



FCC SAR TEST REPORT

Report No. : FA4N0920C

15	256QAM	75	0	18.91	18.97	19.02	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	19.62	19.72	19.65	19.9
10	QPSK	1	25	19.77	19.59	19.77	
10	QPSK	1	49	19.56	19.53	19.54	
10	QPSK	25	0	19.56	19.51	19.72	19.9
10	QPSK	25	12	19.56	19.55	19.69	
10	QPSK	25	25	19.46	19.51	19.43	
10	QPSK	50	0	19.51	19.41	19.67	
10	16QAM	1	0	19.56	19.75	19.61	19.9
10	16QAM	1	25	19.64	19.56	19.69	
10	16QAM	1	49	19.53	19.58	19.53	
10	16QAM	25	0	19.75	19.56	19.71	19.9
10	16QAM	25	12	19.59	19.59	19.62	
10	16QAM	25	25	19.69	19.53	19.55	
10	16QAM	50	0	19.60	19.53	19.74	
10	64QAM	1	0	19.29	19.34	19.39	19.9
10	64QAM	1	25	19.26	19.24	19.40	
10	64QAM	1	49	19.09	19.07	19.24	
10	64QAM	25	0	19.77	19.67	19.57	19.9
10	64QAM	25	12	19.53	19.66	19.61	
10	64QAM	25	25	19.44	19.62	19.70	
10	64QAM	50	0	19.53	19.64	19.63	
10	256QAM	1	0	18.88	19.00	18.98	19.9
10	256QAM	1	25	18.82	18.77	18.64	
10	256QAM	1	49	18.44	18.70	18.74	
10	256QAM	25	0	19.09	19.03	19.14	19.9
10	256QAM	25	12	18.84	18.88	18.92	
10	256QAM	25	25	18.84	18.90	18.82	
10	256QAM	50	0	18.87	18.89	18.89	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	19.72	19.61	19.78	19.9
5	QPSK	1	12	19.69	19.60	19.61	
5	QPSK	1	24	19.57	19.44	19.57	
5	QPSK	12	0	19.56	19.58	19.69	19.9
5	QPSK	12	7	19.62	19.55	19.64	
5	QPSK	12	13	19.48	19.38	19.60	
5	QPSK	25	0	19.66	19.46	19.64	
5	16QAM	1	0	19.57	19.77	19.62	19.9
5	16QAM	1	12	19.64	19.48	19.56	
5	16QAM	1	24	19.63	19.60	19.52	
5	16QAM	12	0	19.61	19.65	19.71	19.9
5	16QAM	12	7	19.62	19.50	19.75	
5	16QAM	12	13	19.58	19.47	19.52	
5	16QAM	25	0	19.66	19.65	19.76	
5	64QAM	1	0	19.31	19.28	19.44	19.9
5	64QAM	1	12	19.31	19.38	19.39	
5	64QAM	1	24	19.13	19.14	19.22	
5	64QAM	12	0	19.74	19.72	19.63	19.9
5	64QAM	12	7	19.62	19.68	19.66	
5	64QAM	12	13	19.63	19.50	19.60	
5	64QAM	25	0	19.55	19.59	19.59	
5	256QAM	1	0	19.01	18.94	18.82	19.9
5	256QAM	1	12	18.78	18.78	18.54	
5	256QAM	1	24	18.52	18.71	18.64	
5	256QAM	12	0	18.99	19.06	19.16	19.9
5	256QAM	12	7	18.88	19.01	18.90	
5	256QAM	12	13	18.80	19.06	18.80	
5	256QAM	25	0	19.01	18.78	18.89	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	23.61	23.74	23.84	
20	QPSK	1	49	23.61	23.69	23.70	24.4
20	QPSK	1	99	23.58	23.63	23.66	
20	QPSK	50	0	23.09	23.31	23.35	
20	QPSK	50	24	23.03	23.21	23.28	24
20	QPSK	50	50	23.03	23.08	23.23	
20	QPSK	100	0	23.01	23.26	23.27	
20	16QAM	1	0	23.17	23.27	23.48	24
20	16QAM	1	49	23.03	23.26	23.38	
20	16QAM	1	99	23.05	23.31	23.31	
20	16QAM	50	0	22.03	22.21	22.37	23
20	16QAM	50	24	22.07	22.18	22.33	
20	16QAM	50	50	22.04	22.09	22.24	
20	16QAM	100	0	22.20	22.24	22.23	23
20	64QAM	1	0	21.72	21.86	22.01	
20	64QAM	1	49	21.69	21.86	22.04	
20	64QAM	1	99	21.74	21.77	21.85	22
20	64QAM	50	0	21.20	21.22	21.42	
20	64QAM	50	24	21.16	21.21	21.34	
20	64QAM	50	50	21.13	21.15	21.26	20
20	64QAM	100	0	21.07	21.12	21.23	
20	256QAM	1	0	18.86	18.99	19.07	
20	256QAM	1	49	18.93	19.09	19.13	20
20	256QAM	1	99	18.78	19.03	19.05	
20	256QAM	50	0	19.01	19.31	19.21	20
20	256QAM	50	24	18.99	19.24	19.36	
20	256QAM	50	50	19.00	19.28	19.29	
20	256QAM	100	0	19.10	19.07	19.22	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	23.59	23.61	23.75	
15	QPSK	1	37	23.52	23.49	23.69	24.4
15	QPSK	1	74	23.53	23.55	23.61	
15	QPSK	36	0	22.90	23.17	23.12	
15	QPSK	36	20	22.88	23.29	23.07	24
15	QPSK	36	39	23.01	23.05	22.97	
15	QPSK	75	0	23.04	23.03	23.18	
15	16QAM	1	0	23.17	23.37	23.51	24
15	16QAM	1	37	23.07	23.26	23.35	
15	16QAM	1	74	23.13	23.26	23.10	
15	16QAM	36	0	21.95	22.07	22.25	23
15	16QAM	36	20	22.10	22.03	22.33	
15	16QAM	36	39	21.87	22.03	22.14	
15	16QAM	75	0	21.91	22.18	22.21	23
15	64QAM	1	0	21.69	21.88	21.95	
15	64QAM	1	37	21.61	21.71	21.73	
15	64QAM	1	74	21.66	21.71	21.89	22
15	64QAM	36	0	20.91	21.13	21.23	
15	64QAM	36	20	20.98	21.19	21.14	
15	64QAM	36	39	20.97	21.10	21.08	20
15	64QAM	75	0	21.13	20.99	21.10	
15	256QAM	1	0	18.85	18.97	18.97	
15	256QAM	1	37	18.82	18.98	18.91	20
15	256QAM	1	74	18.81	18.98	18.92	
15	256QAM	36	0	19.02	19.12	19.08	
15	256QAM	36	20	18.92	19.07	19.11	20
15	256QAM	36	39	18.79	19.20	18.97	



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Report No. : FA4N0920C

15	256QAM	75	0	18.97	18.93	19.13	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	23.47	23.64	23.74	24.4
10	QPSK	1	25	23.46	23.60	23.60	
10	QPSK	1	49	23.57	23.49	23.64	
10	QPSK	25	0	23.09	23.14	23.13	24
10	QPSK	25	12	22.98	23.02	23.10	
10	QPSK	25	25	22.91	23.16	23.19	
10	QPSK	50	0	23.09	22.98	23.19	
10	16QAM	1	0	23.00	23.17	23.33	24
10	16QAM	1	25	23.13	23.11	23.13	
10	16QAM	1	49	23.14	23.05	23.25	
10	16QAM	25	0	22.02	22.05	22.12	23
10	16QAM	25	12	21.94	22.09	22.13	
10	16QAM	25	25	21.99	22.26	22.15	
10	16QAM	50	0	21.89	22.07	22.15	
10	64QAM	1	0	21.73	21.83	21.81	23
10	64QAM	1	25	21.70	21.76	21.92	
10	64QAM	1	49	21.60	21.75	21.93	
10	64QAM	25	0	21.00	21.19	21.23	22
10	64QAM	25	12	20.96	21.21	21.10	
10	64QAM	25	25	20.87	21.00	21.31	
10	64QAM	50	0	20.90	21.13	21.24	
10	256QAM	1	0	18.81	18.99	19.04	20
10	256QAM	1	25	18.73	18.99	19.19	
10	256QAM	1	49	18.65	18.90	18.80	
10	256QAM	25	0	18.84	19.02	19.03	20
10	256QAM	25	12	18.88	19.16	19.07	
10	256QAM	25	25	18.95	19.13	19.14	
10	256QAM	50	0	18.88	19.11	19.26	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	23.41	23.69	23.74	24.4
5	QPSK	1	12	23.56	23.67	23.64	
5	QPSK	1	24	23.55	23.43	23.49	
5	QPSK	12	0	23.06	23.09	23.26	24
5	QPSK	12	7	22.93	23.12	23.24	
5	QPSK	12	13	22.93	22.96	23.14	
5	QPSK	25	0	22.90	23.15	23.34	
5	16QAM	1	0	23.11	23.25	23.40	24
5	16QAM	1	12	23.04	23.08	23.07	
5	16QAM	1	24	22.96	23.30	23.23	
5	16QAM	12	0	22.20	22.26	22.26	23
5	16QAM	12	7	22.01	21.97	22.25	
5	16QAM	12	13	22.05	22.05	22.06	
5	16QAM	25	0	22.16	22.10	22.13	
5	64QAM	1	0	21.69	21.75	21.88	23
5	64QAM	1	12	21.65	21.81	21.79	
5	64QAM	1	24	21.52	21.76	21.84	
5	64QAM	12	0	20.89	21.13	21.28	22
5	64QAM	12	7	20.92	21.14	21.19	
5	64QAM	12	13	20.99	20.90	21.21	
5	64QAM	25	0	20.99	21.02	21.04	
5	256QAM	1	0	18.85	18.82	19.11	20
5	256QAM	1	12	18.65	18.87	18.90	
5	256QAM	1	24	18.78	18.92	18.93	
5	256QAM	12	0	19.01	19.21	19.19	20
5	256QAM	12	7	19.01	19.30	19.13	
5	256QAM	12	13	18.91	19.09	19.07	
5	256QAM	25	0	18.87	19.07	19.21	



<LTE Band 38_Ant 0_Index 9>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	22.99	22.96	23.00	
20	QPSK	1	49	22.98	22.89	22.98	23.8
20	QPSK	1	99	22.83	22.72	22.83	
20	QPSK	50	0	22.97	22.91	22.96	
20	QPSK	50	24	22.93	22.84	22.93	23.8
20	QPSK	50	50	22.88	22.81	22.86	
20	QPSK	100	0	22.91	22.84	22.92	
20	16QAM	1	0	22.91	22.96	22.93	23.8
20	16QAM	1	49	22.91	22.94	22.92	
20	16QAM	1	99	22.92	22.84	22.87	
20	16QAM	50	0	22.09	22.06	22.15	23
20	16QAM	50	24	22.09	22.02	22.09	
20	16QAM	50	50	22.03	21.96	22.02	
20	16QAM	100	0	22.07	22.00	22.09	23
20	64QAM	1	0	21.81	21.73	21.78	
20	64QAM	1	49	21.75	21.67	21.72	
20	64QAM	1	99	21.63	21.48	21.59	22
20	64QAM	50	0	21.06	20.99	21.09	
20	64QAM	50	24	21.05	20.98	21.04	
20	64QAM	50	50	21.01	20.90	20.96	20
20	64QAM	100	0	21.06	20.96	21.03	
20	256QAM	1	0	18.81	18.90	18.98	
20	256QAM	1	49	18.92	18.82	18.64	20
20	256QAM	1	99	18.81	18.72	18.63	
20	256QAM	50	0	18.89	19.11	19.16	20
20	256QAM	50	24	19.03	18.85	18.90	
20	256QAM	50	50	19.03	19.00	18.87	
20	256QAM	100	0	19.05	18.83	19.05	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	22.81	22.80	22.92	
15	QPSK	1	37	22.87	22.70	22.95	23.8
15	QPSK	1	74	22.68	22.72	22.69	
15	QPSK	36	0	22.79	22.78	22.85	23.8
15	QPSK	36	20	22.77	22.79	22.81	
15	QPSK	36	39	22.88	22.70	22.84	
15	QPSK	75	0	22.87	22.78	22.79	23.8
15	16QAM	1	0	22.83	22.81	22.77	
15	16QAM	1	37	22.84	22.83	22.84	
15	16QAM	1	74	22.91	22.70	22.83	23
15	16QAM	36	0	21.93	21.94	21.96	
15	16QAM	36	20	22.06	21.82	22.06	
15	16QAM	36	39	21.96	21.80	21.84	23
15	16QAM	75	0	21.93	21.82	21.89	
15	64QAM	1	0	21.78	21.54	21.65	
15	64QAM	1	37	21.69	21.48	21.57	22
15	64QAM	1	74	21.49	21.41	21.52	
15	64QAM	36	0	20.86	20.95	20.99	
15	64QAM	36	20	21.03	20.95	20.94	20
15	64QAM	36	39	20.83	20.73	20.91	
15	64QAM	75	0	21.01	20.83	20.88	
15	256QAM	1	0	18.73	18.84	18.80	20
15	256QAM	1	37	18.80	18.77	18.50	
15	256QAM	1	74	18.71	18.59	18.61	
15	256QAM	36	0	18.74	18.94	18.96	20
15	256QAM	36	20	18.88	18.76	18.80	
15	256QAM	36	39	18.92	18.97	18.77	



FCC SAR TEST REPORT

Report No. : FA4N0920C

15	256QAM	75	0	19.01	18.78	18.85	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	22.94	22.96	22.84	23.8
10	QPSK	1	25	22.78	22.82	22.97	
10	QPSK	1	49	22.79	22.61	22.73	
10	QPSK	25	0	22.89	22.74	22.78	23.8
10	QPSK	25	12	22.90	22.83	22.86	
10	QPSK	25	25	22.86	22.80	22.81	
10	QPSK	50	0	22.79	22.73	22.72	
10	16QAM	1	0	22.72	22.93	22.80	23.8
10	16QAM	1	25	22.77	22.94	22.83	
10	16QAM	1	49	22.92	22.79	22.80	
10	16QAM	25	0	22.08	21.98	22.10	23
10	16QAM	25	12	22.03	21.86	21.93	
10	16QAM	25	25	21.87	21.79	21.89	
10	16QAM	50	0	21.93	21.95	21.95	
10	64QAM	1	0	21.73	21.66	21.71	23
10	64QAM	1	25	21.69	21.49	21.54	
10	64QAM	1	49	21.61	21.42	21.51	
10	64QAM	25	0	20.96	20.93	21.01	22
10	64QAM	25	12	20.96	20.85	20.87	
10	64QAM	25	25	20.87	20.79	20.90	
10	64QAM	50	0	21.05	20.77	20.90	
10	256QAM	1	0	18.80	18.72	18.96	20
10	256QAM	1	25	18.91	18.66	18.58	
10	256QAM	1	49	18.62	18.61	18.53	
10	256QAM	25	0	18.86	19.10	19.10	20
10	256QAM	25	12	18.87	18.80	18.70	
10	256QAM	25	25	19.03	18.80	18.81	
10	256QAM	50	0	18.99	18.65	18.96	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	22.86	22.87	22.98	23.8
5	QPSK	1	12	22.86	22.80	22.79	
5	QPSK	1	24	22.77	22.64	22.82	
5	QPSK	12	0	22.79	22.86	22.92	23.8
5	QPSK	12	7	22.93	22.83	22.93	
5	QPSK	12	13	22.79	22.78	22.74	
5	QPSK	25	0	22.91	22.79	22.79	
5	16QAM	1	0	22.80	22.89	22.78	23.8
5	16QAM	1	12	22.90	22.87	22.85	
5	16QAM	1	24	22.82	22.74	22.80	
5	16QAM	12	0	22.09	21.88	22.13	23
5	16QAM	12	7	21.94	21.94	21.91	
5	16QAM	12	13	21.95	21.87	21.93	
5	16QAM	25	0	22.01	21.95	22.04	
5	64QAM	1	0	21.78	21.72	21.63	23
5	64QAM	1	12	21.68	21.51	21.59	
5	64QAM	1	24	21.47	21.44	21.44	
5	64QAM	12	0	21.02	20.88	21.00	22
5	64QAM	12	7	20.89	20.81	20.86	
5	64QAM	12	13	20.84	20.86	20.84	
5	64QAM	25	0	20.92	20.95	20.90	
5	256QAM	1	0	18.81	18.77	18.81	20
5	256QAM	1	12	18.72	18.63	18.48	
5	256QAM	1	24	18.66	18.54	18.51	
5	256QAM	12	0	18.78	19.06	19.03	20
5	256QAM	12	7	18.95	18.85	18.90	
5	256QAM	12	13	18.84	18.96	18.77	
5	256QAM	25	0	18.93	18.66	18.90	



<LTE Band 38_Ant 5_Index 9>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	24.01	23.94	24.11	
20	QPSK	1	49	23.90	23.95	24.10	25
20	QPSK	1	99	23.86	23.82	24.00	
20	QPSK	50	0	22.96	22.95	23.04	
20	QPSK	50	24	22.94	22.91	23.01	24
20	QPSK	50	50	22.91	22.87	22.97	
20	QPSK	100	0	22.90	22.91	23.02	
20	16QAM	1	0	23.05	23.06	23.20	24
20	16QAM	1	49	22.97	22.96	23.09	
20	16QAM	1	99	22.90	22.91	23.01	
20	16QAM	50	0	21.96	21.93	22.09	23
20	16QAM	50	24	21.94	21.95	22.06	
20	16QAM	50	50	21.93	21.89	21.99	
20	16QAM	100	0	21.94	21.93	22.03	23
20	64QAM	1	0	21.64	21.59	21.75	
20	64QAM	1	49	21.62	21.58	21.76	
20	64QAM	1	99	21.49	21.45	21.60	22
20	64QAM	50	0	20.93	20.88	21.05	
20	64QAM	50	24	20.88	20.87	20.99	
20	64QAM	50	50	20.87	20.84	20.97	20
20	64QAM	100	0	20.92	20.87	21.02	
20	256QAM	1	0	18.75	18.73	18.84	
20	256QAM	1	49	18.47	18.51	18.67	20
20	256QAM	1	99	18.41	18.51	18.65	
20	256QAM	50	0	18.79	18.81	18.93	20
20	256QAM	50	24	18.83	18.82	18.99	
20	256QAM	50	50	18.80	18.67	18.84	
20	256QAM	100	0	18.77	18.83	18.69	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	23.91	23.85	23.99	
15	QPSK	1	37	23.82	23.75	24.07	25
15	QPSK	1	74	23.85	23.80	24.00	
15	QPSK	36	0	22.82	22.86	22.91	24
15	QPSK	36	20	22.85	22.82	22.86	
15	QPSK	36	39	22.72	22.68	22.93	
15	QPSK	75	0	22.86	22.86	23.02	24
15	16QAM	1	0	22.94	22.97	23.15	
15	16QAM	1	37	22.87	22.84	22.91	
15	16QAM	1	74	22.84	22.78	22.83	23
15	16QAM	36	0	21.88	21.74	21.97	
15	16QAM	36	20	21.77	21.93	22.04	
15	16QAM	36	39	21.90	21.86	21.81	23
15	16QAM	75	0	21.79	21.89	21.95	
15	64QAM	1	0	21.56	21.43	21.56	
15	64QAM	1	37	21.51	21.55	21.73	22
15	64QAM	1	74	21.41	21.29	21.57	
15	64QAM	36	0	20.92	20.70	20.92	
15	64QAM	36	20	20.69	20.77	20.95	20
15	64QAM	36	39	20.74	20.74	20.78	
15	64QAM	75	0	20.78	20.76	20.88	
15	256QAM	1	0	18.67	18.73	18.68	20
15	256QAM	1	37	18.30	18.44	18.58	
15	256QAM	1	74	18.25	18.46	18.54	
15	256QAM	36	0	18.71	18.76	18.81	20
15	256QAM	36	20	18.65	18.81	18.83	
15	256QAM	36	39	18.80	18.55	18.72	



FCC SAR TEST REPORT

Report No. : FA4N0920C

15	256QAM	75	0	18.69	18.69	18.69	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	24.00	23.74	23.98	25
10	QPSK	1	25	23.88	23.90	24.07	
10	QPSK	1	49	23.85	23.82	23.88	
10	QPSK	25	0	22.79	22.84	23.04	24
10	QPSK	25	12	22.74	22.82	22.98	
10	QPSK	25	25	22.78	22.78	22.83	
10	QPSK	50	0	22.81	22.71	23.01	24
10	16QAM	1	0	22.88	23.05	23.06	
10	16QAM	1	25	22.91	22.82	22.94	
10	16QAM	1	49	22.83	22.83	22.84	23
10	16QAM	25	0	21.89	21.74	21.98	
10	16QAM	25	12	21.76	21.92	21.91	
10	16QAM	25	25	21.91	21.81	21.92	23
10	16QAM	50	0	21.75	21.83	22.00	
10	64QAM	1	0	21.46	21.43	21.66	
10	64QAM	1	25	21.55	21.57	21.65	23
10	64QAM	1	49	21.32	21.43	21.56	
10	64QAM	25	0	20.92	20.74	20.98	
10	64QAM	25	12	20.70	20.71	20.88	22
10	64QAM	25	25	20.69	20.82	20.96	
10	64QAM	50	0	20.81	20.83	20.88	
10	256QAM	1	0	18.71	18.70	18.68	20
10	256QAM	1	25	18.42	18.45	18.49	
10	256QAM	1	49	18.24	18.39	18.55	
10	256QAM	25	0	18.79	18.65	18.89	20
10	256QAM	25	12	18.68	18.71	18.93	
10	256QAM	25	25	18.65	18.56	18.81	
10	256QAM	50	0	18.63	18.69	18.64	Tune-up limit (dBm)
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	24.01	23.92	23.92	25
5	QPSK	1	12	23.79	23.78	24.08	
5	QPSK	1	24	23.80	23.66	23.98	
5	QPSK	12	0	22.91	22.82	23.00	24
5	QPSK	12	7	22.87	22.71	22.96	
5	QPSK	12	13	22.81	22.67	22.78	
5	QPSK	25	0	22.82	22.87	22.92	24
5	16QAM	1	0	22.97	23.00	23.11	
5	16QAM	1	12	22.96	22.92	22.97	
5	16QAM	1	24	22.86	22.87	22.89	23
5	16QAM	12	0	21.82	21.74	22.02	
5	16QAM	12	7	21.86	21.86	22.03	
5	16QAM	12	13	21.73	21.73	21.81	23
5	16QAM	25	0	21.86	21.82	22.03	
5	64QAM	1	0	21.44	21.44	21.62	
5	64QAM	1	12	21.58	21.53	21.68	23
5	64QAM	1	24	21.34	21.35	21.58	
5	64QAM	12	0	20.79	20.82	20.94	
5	64QAM	12	7	20.86	20.77	20.89	22
5	64QAM	12	13	20.67	20.74	20.95	
5	64QAM	25	0	20.75	20.83	20.90	
5	256QAM	1	0	18.65	18.58	18.65	20
5	256QAM	1	12	18.32	18.31	18.61	
5	256QAM	1	24	18.40	18.46	18.52	
5	256QAM	12	0	18.69	18.78	18.89	20
5	256QAM	12	7	18.63	18.78	18.88	
5	256QAM	12	13	18.76	18.55	18.68	
5	256QAM	25	0	18.61	18.81	18.65	



<LTE Band 38_HPUE_Ant 2_Index 9>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	21.22	21.17	21.26	
20	QPSK	1	49	21.08	21.04	21.14	21.5
20	QPSK	1	99	21.04	21.01	21.12	
20	QPSK	50	0	21.23	21.18	21.25	
20	QPSK	50	24	21.20	21.13	21.19	21.5
20	QPSK	50	50	21.13	21.08	21.15	
20	QPSK	100	0	21.17	21.13	21.21	
20	16QAM	1	0	21.19	21.12	21.19	21.5
20	16QAM	1	49	21.06	21.01	21.08	
20	16QAM	1	99	20.99	20.97	21.06	
20	16QAM	50	0	21.19	21.25	21.00	21.5
20	16QAM	50	24	21.16	21.18	21.24	
20	16QAM	50	50	21.19	21.14	21.21	
20	16QAM	100	0	21.23	21.17	21.25	21.5
20	64QAM	1	0	20.93	20.86	20.97	
20	64QAM	1	49	21.18	21.10	21.22	
20	64QAM	1	99	21.14	21.12	21.19	21.5
20	64QAM	50	0	21.24	21.19	21.24	
20	64QAM	50	24	21.20	21.13	21.21	
20	64QAM	50	50	21.15	21.11	21.20	21.5
20	64QAM	100	0	21.20	21.16	21.25	
20	256QAM	1	0	21.10	20.94	20.99	21.5
20	256QAM	1	49	20.97	20.93	20.82	
20	256QAM	1	99	20.93	20.89	20.85	
20	256QAM	50	0	21.01	21.01	21.06	21.5
20	256QAM	50	24	21.01	20.96	21.16	
20	256QAM	50	50	20.91	20.84	20.85	
20	256QAM	100	0	20.88	20.90	20.98	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	21.11	21.09	21.08	
15	QPSK	1	37	21.07	20.94	21.12	21.5
15	QPSK	1	74	21.01	20.81	20.92	
15	QPSK	36	0	21.22	21.12	21.10	21.5
15	QPSK	36	20	21.01	20.96	21.00	
15	QPSK	36	39	21.02	21.05	21.03	
15	QPSK	75	0	21.16	20.96	21.21	21.5
15	16QAM	1	0	21.16	20.94	21.03	
15	16QAM	1	37	20.87	20.83	20.89	
15	16QAM	1	74	20.79	20.80	20.97	21.5
15	16QAM	36	0	21.19	21.07	20.86	
15	16QAM	36	20	21.14	21.18	21.11	
15	16QAM	36	39	21.01	21.09	21.14	21.5
15	16QAM	75	0	21.23	21.00	21.18	
15	64QAM	1	0	20.73	20.74	20.82	
15	64QAM	1	37	21.11	20.95	21.12	21.5
15	64QAM	1	74	20.96	21.00	21.09	
15	64QAM	36	0	21.13	21.05	21.17	
15	64QAM	36	20	21.16	20.97	21.15	21.5
15	64QAM	36	39	21.14	21.09	21.01	
15	64QAM	75	0	21.17	20.96	21.20	
15	256QAM	1	0	20.97	20.83	20.98	21.5
15	256QAM	1	37	20.82	20.93	20.73	
15	256QAM	1	74	20.76	20.72	20.80	
15	256QAM	36	0	20.91	21.00	20.98	21.5
15	256QAM	36	20	20.95	20.91	21.11	
15	256QAM	36	39	20.77	20.78	20.72	



FCC SAR TEST REPORT

Report No. : FA4N0920C

15	256QAM	75	0	20.80	20.76	20.80	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	21.17	21.00	21.16	21.5
10	QPSK	1	25	21.02	21.03	20.95	
10	QPSK	1	49	21.03	20.82	20.97	
10	QPSK	25	0	21.13	21.02	21.25	21.5
10	QPSK	25	12	21.18	21.00	21.01	
10	QPSK	25	25	20.99	21.05	21.07	
10	QPSK	50	0	21.00	21.12	21.12	21.5
10	16QAM	1	0	20.99	21.00	21.11	
10	16QAM	1	25	20.97	21.00	21.03	
10	16QAM	1	49	20.88	20.93	20.86	21.5
10	16QAM	25	0	21.09	21.19	20.93	
10	16QAM	25	12	20.96	21.14	21.23	
10	16QAM	25	25	21.06	21.05	21.19	21.5
10	16QAM	50	0	21.22	21.11	21.09	
10	64QAM	1	0	20.74	20.71	20.94	
10	64QAM	1	25	21.11	21.08	21.04	21.5
10	64QAM	1	49	20.98	21.10	21.10	
10	64QAM	25	0	21.20	21.06	21.13	
10	64QAM	25	12	21.11	21.03	21.21	21.5
10	64QAM	25	25	21.10	21.00	21.07	
10	64QAM	50	0	21.00	20.96	21.18	
10	256QAM	1	0	20.99	20.81	20.85	21.5
10	256QAM	1	25	20.92	20.75	20.73	
10	256QAM	1	49	20.81	20.87	20.71	
10	256QAM	25	0	20.91	20.88	20.97	21.5
10	256QAM	25	12	21.00	20.95	20.99	
10	256QAM	25	25	20.84	20.72	20.70	
10	256QAM	50	0	20.76	20.86	20.96	Tune-up limit (dBm)
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	21.21	21.08	21.23	21.5
5	QPSK	1	12	20.90	20.97	20.97	
5	QPSK	1	24	20.89	20.81	20.94	
5	QPSK	12	0	21.21	21.10	21.11	21.5
5	QPSK	12	7	21.09	20.97	21.15	
5	QPSK	12	13	20.97	20.99	20.99	
5	QPSK	25	0	21.12	20.95	21.02	21.5
5	16QAM	1	0	21.13	21.06	21.07	
5	16QAM	1	12	20.93	20.91	20.92	
5	16QAM	1	24	20.85	20.80	21.01	21.5
5	16QAM	12	0	21.07	21.14	20.82	
5	16QAM	12	7	21.11	21.13	21.07	
5	16QAM	12	13	21.04	21.01	21.21	21.5
5	16QAM	25	0	21.05	21.06	21.05	
5	64QAM	1	0	20.76	20.83	20.88	
5	64QAM	1	12	20.99	21.03	21.18	21.5
5	64QAM	1	24	20.96	21.08	21.09	
5	64QAM	12	0	21.23	21.13	21.10	
5	64QAM	12	7	21.06	21.07	21.12	21.5
5	64QAM	12	13	21.05	21.10	21.18	
5	64QAM	25	0	21.04	21.13	21.10	
5	256QAM	1	0	20.95	20.85	20.97	21.5
5	256QAM	1	12	20.97	20.73	20.65	
5	256QAM	1	24	20.77	20.69	20.80	
5	256QAM	12	0	20.98	20.84	21.03	21.5
5	256QAM	12	7	20.88	20.89	21.12	
5	256QAM	12	13	20.88	20.70	20.85	
5	256QAM	25	0	20.76	20.86	20.96	



<LTE Band 38_HPUE_Ant 1_Index 9>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	25.47	25.61	25.67	
20	QPSK	1	49	25.40	25.49	25.48	26
20	QPSK	1	99	25.43	25.44	25.44	
20	QPSK	50	0	24.99	25.13	25.15	
20	QPSK	50	24	24.98	25.05	25.28	25.9
20	QPSK	50	50	24.87	25.10	25.15	
20	QPSK	100	0	24.92	25.04	25.15	
20	16QAM	1	0	25.34	25.58	25.56	25.9
20	16QAM	1	49	25.18	25.31	25.27	
20	16QAM	1	99	25.32	25.29	25.36	
20	16QAM	50	0	24.10	24.25	24.35	24.9
20	16QAM	50	24	24.13	24.19	24.32	
20	16QAM	50	50	23.91	24.13	24.29	
20	16QAM	100	0	23.94	24.17	24.30	24.9
20	64QAM	1	0	23.97	24.18	24.28	
20	64QAM	1	49	23.93	24.10	24.05	
20	64QAM	1	99	23.96	24.10	24.09	23.9
20	64QAM	50	0	22.91	23.20	23.13	
20	64QAM	50	24	22.95	23.13	23.05	
20	64QAM	50	50	22.91	22.98	23.06	21.9
20	64QAM	100	0	22.94	23.01	23.15	
20	256QAM	1	0	21.02	21.17	21.31	
20	256QAM	1	49	20.82	21.05	21.07	21.9
20	256QAM	1	99	20.79	21.09	20.95	
20	256QAM	50	0	20.99	21.17	21.23	
20	256QAM	50	24	20.80	21.25	21.26	21.9
20	256QAM	50	50	20.80	21.01	21.16	
20	256QAM	100	0	20.88	21.13	21.16	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	25.40	25.59	25.56	
15	QPSK	1	37	25.37	25.34	25.32	26
15	QPSK	1	74	25.39	25.42	25.33	
15	QPSK	36	0	24.94	25.02	25.16	
15	QPSK	36	20	24.93	24.93	24.96	25.9
15	QPSK	36	39	24.88	24.82	25.05	
15	QPSK	75	0	24.89	25.09	25.12	
15	16QAM	1	0	25.19	25.23	25.45	25.9
15	16QAM	1	37	25.27	25.18	25.24	
15	16QAM	1	74	25.21	25.35	25.04	
15	16QAM	36	0	23.94	23.98	24.15	24.9
15	16QAM	36	20	23.78	23.93	24.13	
15	16QAM	36	39	23.89	23.96	24.17	
15	16QAM	75	0	23.93	24.09	24.17	24.9
15	64QAM	1	0	23.97	24.25	24.24	
15	64QAM	1	37	23.82	24.00	24.04	
15	64QAM	1	74	23.87	23.99	23.83	23.9
15	64QAM	36	0	22.70	23.02	23.02	
15	64QAM	36	20	22.89	23.12	23.13	
15	64QAM	36	39	22.78	22.79	23.04	21.9
15	64QAM	75	0	22.90	22.94	23.05	
15	256QAM	1	0	21.04	21.03	21.02	
15	256QAM	1	37	20.74	20.93	20.99	21.9
15	256QAM	1	74	20.59	20.83	20.99	
15	256QAM	36	0	21.04	21.17	20.96	
15	256QAM	36	20	20.79	20.95	20.99	21.9
15	256QAM	36	39	20.86	20.87	21.18	



FCC SAR TEST REPORT

Report No. : FA4N0920C

15	256QAM	75	0	20.76	20.86	21.09	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	25.29	25.61	25.55	26
10	QPSK	1	25	25.25	25.30	25.42	
10	QPSK	1	49	25.27	25.24	25.31	
10	QPSK	25	0	25.01	25.14	25.21	25.9
10	QPSK	25	12	24.92	25.10	24.90	
10	QPSK	25	25	24.77	24.97	25.15	
10	QPSK	50	0	24.90	25.09	24.95	25.9
10	16QAM	1	0	25.20	25.36	25.53	
10	16QAM	1	25	25.16	25.35	25.05	
10	16QAM	1	49	25.14	25.21	25.33	24.9
10	16QAM	25	0	23.89	24.16	24.12	
10	16QAM	25	12	23.98	24.18	24.21	
10	16QAM	25	25	23.82	24.06	24.04	24.9
10	16QAM	50	0	23.97	24.01	23.97	
10	64QAM	1	0	23.81	24.01	24.16	
10	64QAM	1	25	23.91	23.83	24.08	24.9
10	64QAM	1	49	23.91	23.96	24.07	
10	64QAM	25	0	22.89	22.88	23.24	
10	64QAM	25	12	22.76	22.93	23.09	23.9
10	64QAM	25	25	22.91	22.92	23.01	
10	64QAM	50	0	22.84	23.09	23.18	
10	256QAM	1	0	20.80	20.95	21.25	21.9
10	256QAM	1	25	20.77	20.88	20.99	
10	256QAM	1	49	20.77	20.84	21.00	
10	256QAM	25	0	20.84	21.21	21.18	21.9
10	256QAM	25	12	20.85	21.07	21.11	
10	256QAM	25	25	20.84	21.04	21.01	
10	256QAM	50	0	20.75	20.97	21.04	Tune-up limit (dBm)
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	25.35	25.60	25.61	26
5	QPSK	1	12	25.37	25.48	25.46	
5	QPSK	1	24	25.37	25.41	25.25	
5	QPSK	12	0	24.84	24.93	25.18	25.9
5	QPSK	12	7	25.05	24.91	24.97	
5	QPSK	12	13	24.67	24.79	25.09	
5	QPSK	25	0	24.93	24.87	25.08	25.9
5	16QAM	1	0	25.19	25.34	25.30	
5	16QAM	1	12	25.26	25.32	25.39	
5	16QAM	1	24	25.21	25.23	25.21	24.9
5	16QAM	12	0	23.91	23.98	24.28	
5	16QAM	12	7	23.77	23.93	23.98	
5	16QAM	12	13	23.86	23.93	24.06	24.9
5	16QAM	25	0	23.99	24.03	24.10	
5	64QAM	1	0	24.01	24.14	24.37	
5	64QAM	1	12	23.92	23.94	24.04	24.9
5	64QAM	1	24	23.91	23.87	23.99	
5	64QAM	12	0	22.87	22.85	23.04	
5	64QAM	12	7	22.80	22.85	23.17	23.9
5	64QAM	12	13	22.98	22.90	23.00	
5	64QAM	25	0	22.89	23.05	23.04	
5	256QAM	1	0	20.85	20.97	21.14	21.9
5	256QAM	1	12	20.70	20.82	21.16	
5	256QAM	1	24	20.63	20.85	20.78	
5	256QAM	12	0	20.94	21.11	21.05	21.9
5	256QAM	12	7	20.87	20.97	21.06	
5	256QAM	12	13	20.79	21.02	21.00	
5	256QAM	25	0	20.68	21.07	21.03	



<LTE Band 38_HPUE_Ant 0_Index 9>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	25.02	24.95	25.08	
20	QPSK	1	49	24.93	24.89	24.91	25.4
20	QPSK	1	99	24.89	24.78	24.82	
20	QPSK	50	0	25.07	25.02	25.07	
20	QPSK	50	24	25.06	24.97	25.02	25.4
20	QPSK	50	50	25.01	24.89	25.00	
20	QPSK	100	0	25.05	24.96	25.06	
20	16QAM	1	0	24.81	24.78	24.85	25.4
20	16QAM	1	49	24.73	24.69	24.74	
20	16QAM	1	99	24.65	24.55	24.55	
20	16QAM	50	0	24.07	24.03	24.13	24.9
20	16QAM	50	24	24.07	23.99	24.08	
20	16QAM	50	50	24.03	23.92	24.02	
20	16QAM	100	0	24.05	23.96	24.07	24.9
20	64QAM	1	0	24.11	24.06	24.16	
20	64QAM	1	49	24.08	23.99	24.00	
20	64QAM	1	99	23.95	23.88	23.86	23.9
20	64QAM	50	0	23.07	22.98	23.09	
20	64QAM	50	24	23.06	22.96	23.03	
20	64QAM	50	50	23.00	22.91	22.95	21.9
20	64QAM	100	0	23.04	22.95	23.05	
20	256QAM	1	0	21.00	21.18	20.89	
20	256QAM	1	49	20.85	20.93	20.75	21.9
20	256QAM	1	99	20.56	20.77	20.70	
20	256QAM	50	0	21.03	21.15	21.14	
20	256QAM	50	24	20.84	21.16	20.95	21.9
20	256QAM	50	50	20.84	21.02	20.91	
20	256QAM	100	0	21.01	20.96	20.82	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	24.93	24.92	25.06	
15	QPSK	1	37	24.78	24.82	24.79	25.4
15	QPSK	1	74	24.81	24.73	24.71	
15	QPSK	36	0	25.02	24.84	24.91	
15	QPSK	36	20	25.05	24.82	24.98	25.4
15	QPSK	36	39	24.92	24.72	24.94	
15	QPSK	75	0	24.87	24.93	24.99	
15	16QAM	1	0	24.72	24.64	24.66	25.4
15	16QAM	1	37	24.56	24.64	24.56	
15	16QAM	1	74	24.61	24.44	24.49	
15	16QAM	36	0	24.07	24.03	23.95	24.9
15	16QAM	36	20	23.88	23.83	24.02	
15	16QAM	36	39	23.91	23.87	23.94	
15	16QAM	75	0	23.86	23.77	23.97	24.9
15	64QAM	1	0	24.02	23.87	24.05	
15	64QAM	1	37	23.93	23.85	23.81	
15	64QAM	1	74	23.85	23.68	23.81	23.9
15	64QAM	36	0	22.95	22.91	23.03	
15	64QAM	36	20	22.94	22.86	22.98	
15	64QAM	36	39	22.95	22.85	22.82	21.9
15	64QAM	75	0	22.91	22.88	22.96	
15	256QAM	1	0	20.87	20.98	20.83	
15	256QAM	1	37	20.79	20.79	20.55	21.9
15	256QAM	1	74	20.53	20.69	20.57	
15	256QAM	36	0	20.96	21.12	20.96	
15	256QAM	36	20	20.68	21.00	20.77	21.9
15	256QAM	36	39	20.65	20.87	20.77	



FCC SAR TEST REPORT

Report No. : FA4N0920C

15	256QAM	75	0	20.85	20.93	20.72	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	25.01	24.95	24.93	25.4
10	QPSK	1	25	24.73	24.77	24.86	
10	QPSK	1	49	24.79	24.72	24.82	
10	QPSK	25	0	25.05	24.86	25.06	25.4
10	QPSK	25	12	24.94	24.95	24.89	
10	QPSK	25	25	24.98	24.70	24.95	
10	QPSK	50	0	24.92	24.84	24.96	25.4
10	16QAM	1	0	24.71	24.71	24.66	
10	16QAM	1	25	24.68	24.55	24.57	
10	16QAM	1	49	24.49	24.55	24.52	24.9
10	16QAM	25	0	23.98	23.89	23.97	
10	16QAM	25	12	23.93	23.94	23.89	
10	16QAM	25	25	23.84	23.91	23.96	24.9
10	16QAM	50	0	24.04	23.82	23.88	
10	64QAM	1	0	23.98	23.94	24.03	
10	64QAM	1	25	23.99	23.90	23.99	24.9
10	64QAM	1	49	23.89	23.76	23.73	
10	64QAM	25	0	22.88	22.85	23.04	
10	64QAM	25	12	22.96	22.89	22.94	23.9
10	64QAM	25	25	22.81	22.76	22.86	
10	64QAM	50	0	23.01	22.77	22.90	
10	256QAM	1	0	21.00	21.07	20.83	21.9
10	256QAM	1	25	20.76	20.75	20.70	
10	256QAM	1	49	20.48	20.63	20.59	
10	256QAM	25	0	20.83	20.96	20.94	21.9
10	256QAM	25	12	20.73	20.97	20.83	
10	256QAM	25	25	20.70	20.90	20.76	
10	256QAM	50	0	20.97	20.86	20.72	Tune-up limit (dBm)
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	24.94	24.79	25.05	25.4
5	QPSK	1	12	24.83	24.89	24.90	
5	QPSK	1	24	24.87	24.59	24.65	
5	QPSK	12	0	24.95	24.84	25.04	25.4
5	QPSK	12	7	25.06	24.81	24.95	
5	QPSK	12	13	24.95	24.79	24.81	
5	QPSK	25	0	24.91	24.82	25.00	25.4
5	16QAM	1	0	24.61	24.62	24.84	
5	16QAM	1	12	24.61	24.58	24.55	
5	16QAM	1	24	24.56	24.39	24.36	24.9
5	16QAM	12	0	23.87	24.00	24.02	
5	16QAM	12	7	24.07	23.97	23.96	
5	16QAM	12	13	23.95	23.84	23.97	24.9
5	16QAM	25	0	23.86	23.93	23.90	
5	64QAM	1	0	23.98	23.99	24.09	
5	64QAM	1	12	23.96	23.92	23.91	23.9
5	64QAM	1	24	23.85	23.71	23.85	
5	64QAM	12	0	23.05	22.87	22.96	
5	64QAM	12	7	22.92	22.90	22.95	21.9
5	64QAM	12	13	22.95	22.81	22.81	
5	64QAM	25	0	22.87	22.84	22.93	
5	256QAM	1	0	20.87	21.15	20.72	21.9
5	256QAM	1	12	20.70	20.90	20.66	
5	256QAM	1	24	20.50	20.75	20.52	
5	256QAM	12	0	21.02	21.14	21.07	21.9
5	256QAM	12	7	20.83	20.99	20.76	
5	256QAM	12	13	20.82	21.02	20.91	
5	256QAM	25	0	21.01	20.86	20.75	



<LTE Band 38_HPUE_Ant 5_Index 9>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	25.88	25.91	26.01	
20	QPSK	1	49	25.82	25.81	25.87	26.9
20	QPSK	1	99	25.79	25.71	25.74	
20	QPSK	50	0	24.90	24.89	25.04	
20	QPSK	50	24	24.87	24.85	25.00	25.9
20	QPSK	50	50	24.83	24.82	24.96	
20	QPSK	100	0	24.84	24.85	24.98	
20	16QAM	1	0	25.16	25.16	25.26	25.9
20	16QAM	1	49	25.11	25.09	25.17	
20	16QAM	1	99	25.03	24.98	25.00	
20	16QAM	50	0	23.92	23.91	24.05	24.9
20	16QAM	50	24	23.93	23.91	24.04	
20	16QAM	50	50	23.89	23.84	24.07	
20	16QAM	100	0	23.91	23.87	24.02	24.9
20	64QAM	1	0	23.94	23.91	24.06	
20	64QAM	1	49	23.88	23.85	23.96	
20	64QAM	1	99	23.82	23.76	23.87	23.9
20	64QAM	50	0	22.88	23.03	23.12	
20	64QAM	50	24	22.85	22.86	23.01	
20	64QAM	50	50	22.83	22.76	22.94	21.9
20	64QAM	100	0	22.87	22.84	22.89	
20	256QAM	1	0	20.71	20.74	20.97	
20	256QAM	1	49	20.78	20.87	20.85	21.9
20	256QAM	1	99	20.40	20.54	20.62	
20	256QAM	50	0	20.71	20.72	20.91	
20	256QAM	50	24	20.61	20.77	20.91	21.9
20	256QAM	50	50	20.78	20.76	20.92	
20	256QAM	100	0	20.81	20.73	20.72	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	25.74	25.89	25.93	
15	QPSK	1	37	25.67	25.65	25.83	26.9
15	QPSK	1	74	25.78	25.52	25.67	
15	QPSK	36	0	24.90	24.82	24.98	
15	QPSK	36	20	24.69	24.81	24.83	25.9
15	QPSK	36	39	24.78	24.79	24.96	
15	QPSK	75	0	24.65	24.81	24.88	
15	16QAM	1	0	25.02	25.12	25.14	25.9
15	16QAM	1	37	24.97	24.97	25.16	
15	16QAM	1	74	24.83	24.79	24.96	
15	16QAM	36	0	23.75	23.84	23.94	24.9
15	16QAM	36	20	23.93	23.87	23.87	
15	16QAM	36	39	23.71	23.78	24.05	
15	16QAM	75	0	23.85	23.73	23.94	24.9
15	64QAM	1	0	23.86	23.81	23.99	
15	64QAM	1	37	23.68	23.82	23.76	
15	64QAM	1	74	23.72	23.70	23.83	23.9
15	64QAM	36	0	22.79	22.86	23.06	
15	64QAM	36	20	22.73	22.72	22.97	
15	64QAM	36	39	22.74	22.58	22.76	21.9
15	64QAM	75	0	22.73	22.66	22.69	
15	256QAM	1	0	20.69	20.74	20.82	
15	256QAM	1	37	20.67	20.70	20.70	21.9
15	256QAM	1	74	20.20	20.47	20.46	
15	256QAM	36	0	20.65	20.72	20.85	
15	256QAM	36	20	20.61	20.60	20.86	21.9
15	256QAM	36	39	20.58	20.75	20.90	



FCC SAR TEST REPORT

Report No. : FA4N0920C

15	256QAM	75	0	20.69	20.58	20.69	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	25.86	25.82	25.99	26.9
10	QPSK	1	25	25.72	25.69	25.72	
10	QPSK	1	49	25.59	25.59	25.61	
10	QPSK	25	0	24.76	24.76	25.00	25.9
10	QPSK	25	12	24.76	24.83	24.98	
10	QPSK	25	25	24.76	24.66	24.87	
10	QPSK	50	0	24.80	24.82	24.82	
10	16QAM	1	0	25.13	25.05	25.12	25.9
10	16QAM	1	25	24.99	25.01	25.13	
10	16QAM	1	49	24.99	24.84	24.80	
10	16QAM	25	0	23.82	23.73	24.01	24.9
10	16QAM	25	12	23.89	23.81	23.85	
10	16QAM	25	25	23.81	23.67	23.87	
10	16QAM	50	0	23.90	23.68	24.00	
10	64QAM	1	0	23.76	23.72	23.87	24.9
10	64QAM	1	25	23.87	23.72	23.96	
10	64QAM	1	49	23.62	23.76	23.82	
10	64QAM	25	0	22.88	22.83	23.10	23.9
10	64QAM	25	12	22.75	22.66	22.99	
10	64QAM	25	25	22.79	22.61	22.89	
10	64QAM	50	0	22.69	22.80	22.70	
10	256QAM	1	0	20.51	20.65	20.78	21.9
10	256QAM	1	25	20.64	20.72	20.67	
10	256QAM	1	49	20.25	20.38	20.50	
10	256QAM	25	0	20.67	20.56	20.73	21.9
10	256QAM	25	12	20.43	20.58	20.87	
10	256QAM	25	25	20.66	20.67	20.85	
10	256QAM	50	0	20.76	20.58	20.70	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	25.70	25.81	25.88	26.9
5	QPSK	1	12	25.62	25.69	25.81	
5	QPSK	1	24	25.60	25.69	25.69	
5	QPSK	12	0	24.85	24.72	24.97	25.9
5	QPSK	12	7	24.71	24.78	24.84	
5	QPSK	12	13	24.76	24.70	24.96	
5	QPSK	25	0	24.69	24.81	24.91	
5	16QAM	1	0	25.15	25.14	25.11	25.9
5	16QAM	1	12	25.05	24.98	25.07	
5	16QAM	1	24	25.02	24.85	24.93	
5	16QAM	12	0	23.74	23.81	23.85	24.9
5	16QAM	12	7	23.83	23.72	23.84	
5	16QAM	12	13	23.77	23.71	23.93	
5	16QAM	25	0	23.73	23.78	23.97	
5	64QAM	1	0	23.84	23.88	23.94	24.9
5	64QAM	1	12	23.70	23.66	23.84	
5	64QAM	1	24	23.77	23.73	23.68	
5	64QAM	12	0	22.79	22.91	22.93	23.9
5	64QAM	12	7	22.82	22.67	22.93	
5	64QAM	12	13	22.71	22.74	22.83	
5	64QAM	25	0	22.67	22.81	22.88	
5	256QAM	1	0	20.58	20.74	20.89	21.9
5	256QAM	1	12	20.65	20.70	20.83	
5	256QAM	1	24	20.32	20.41	20.60	
5	256QAM	12	0	20.60	20.68	20.79	21.9
5	256QAM	12	7	20.48	20.77	20.71	
5	256QAM	12	13	20.71	20.66	20.87	
5	256QAM	25	0	20.64	20.72	20.61	



<LTE Band 38_Ant 2_Index 10>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	19.78	19.73	19.80	
20	QPSK	1	49	19.77	19.70	19.79	20.7
20	QPSK	1	99	19.57	19.57	19.65	
20	QPSK	50	0	19.75	19.67	19.76	
20	QPSK	50	24	19.70	19.61	19.69	20.7
20	QPSK	50	50	19.64	19.57	19.63	
20	QPSK	100	0	19.69	19.61	19.70	
20	16QAM	1	0	19.76	19.79	19.76	20.7
20	16QAM	1	49	19.70	19.64	19.71	
20	16QAM	1	99	19.66	19.60	19.71	
20	16QAM	50	0	19.78	19.76	19.71	20.7
20	16QAM	50	24	19.74	19.69	19.76	
20	16QAM	50	50	19.69	19.64	19.71	
20	16QAM	100	0	19.74	19.69	19.77	20.7
20	64QAM	1	0	19.49	19.46	19.51	
20	64QAM	1	49	19.45	19.40	19.47	
20	64QAM	1	99	19.29	19.24	19.36	20.7
20	64QAM	50	0	19.77	19.73	19.73	
20	64QAM	50	24	19.73	19.69	19.78	
20	64QAM	50	50	19.63	19.63	19.74	20.7
20	64QAM	100	0	19.71	19.66	19.75	
20	256QAM	1	0	19.07	19.14	19.01	20
20	256QAM	1	49	18.83	18.93	18.73	
20	256QAM	1	99	18.62	18.80	18.82	
20	256QAM	50	0	19.18	19.19	19.22	20
20	256QAM	50	24	19.02	19.06	19.00	
20	256QAM	50	50	18.99	19.09	18.95	
20	256QAM	100	0	19.02	18.97	19.05	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	19.62	19.67	19.70	
15	QPSK	1	37	19.65	19.57	19.74	20.7
15	QPSK	1	74	19.37	19.55	19.46	
15	QPSK	36	0	19.62	19.48	19.66	20.7
15	QPSK	36	20	19.63	19.48	19.68	
15	QPSK	36	39	19.61	19.56	19.46	
15	QPSK	75	0	19.68	19.58	19.67	20.7
15	16QAM	1	0	19.61	19.64	19.76	
15	16QAM	1	37	19.61	19.62	19.58	
15	16QAM	1	74	19.63	19.56	19.53	20.7
15	16QAM	36	0	19.68	19.63	19.53	
15	16QAM	36	20	19.55	19.64	19.56	
15	16QAM	36	39	19.49	19.64	19.65	20.7
15	16QAM	75	0	19.57	19.69	19.57	
15	64QAM	1	0	19.47	19.28	19.34	
15	64QAM	1	37	19.41	19.33	19.41	20.7
15	64QAM	1	74	19.19	19.15	19.34	
15	64QAM	36	0	19.65	19.65	19.56	
15	64QAM	36	20	19.71	19.67	19.60	20.7
15	64QAM	36	39	19.46	19.63	19.74	
15	64QAM	75	0	19.54	19.62	19.72	
15	256QAM	1	0	18.92	18.98	18.97	20
15	256QAM	1	37	18.66	18.80	18.57	
15	256QAM	1	74	18.53	18.66	18.82	
15	256QAM	36	0	19.04	19.15	19.05	20
15	256QAM	36	20	18.90	19.02	18.96	
15	256QAM	36	39	18.84	18.95	18.92	



FCC SAR TEST REPORT

Report No. : FA4N0920C

15	256QAM	75	0	18.91	18.97	19.02	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	19.62	19.72	19.65	20.7
10	QPSK	1	25	19.77	19.59	19.77	
10	QPSK	1	49	19.56	19.53	19.54	
10	QPSK	25	0	19.56	19.51	19.72	20.7
10	QPSK	25	12	19.56	19.55	19.69	
10	QPSK	25	25	19.46	19.51	19.43	
10	QPSK	50	0	19.51	19.41	19.67	20.7
10	16QAM	1	0	19.56	19.75	19.61	
10	16QAM	1	25	19.64	19.56	19.69	
10	16QAM	1	49	19.53	19.58	19.53	20.7
10	16QAM	25	0	19.75	19.56	19.71	
10	16QAM	25	12	19.59	19.59	19.62	
10	16QAM	25	25	19.69	19.53	19.55	20.7
10	16QAM	50	0	19.60	19.53	19.74	
10	64QAM	1	0	19.29	19.34	19.39	
10	64QAM	1	25	19.26	19.24	19.40	20.7
10	64QAM	1	49	19.09	19.07	19.24	
10	64QAM	25	0	19.77	19.67	19.57	
10	64QAM	25	12	19.53	19.66	19.61	20.7
10	64QAM	25	25	19.44	19.62	19.70	
10	64QAM	50	0	19.53	19.64	19.63	
10	256QAM	1	0	18.88	19.00	18.98	20
10	256QAM	1	25	18.82	18.77	18.64	
10	256QAM	1	49	18.44	18.70	18.74	
10	256QAM	25	0	19.09	19.03	19.14	20
10	256QAM	25	12	18.84	18.88	18.92	
10	256QAM	25	25	18.84	18.90	18.82	
10	256QAM	50	0	18.87	18.89	18.89	Tune-up limit (dBm)
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	19.72	19.61	19.78	20.7
5	QPSK	1	12	19.69	19.60	19.61	
5	QPSK	1	24	19.57	19.44	19.57	
5	QPSK	12	0	19.56	19.58	19.69	20.7
5	QPSK	12	7	19.62	19.55	19.64	
5	QPSK	12	13	19.48	19.38	19.60	
5	QPSK	25	0	19.66	19.46	19.64	20.7
5	16QAM	1	0	19.57	19.77	19.62	
5	16QAM	1	12	19.64	19.48	19.56	
5	16QAM	1	24	19.63	19.60	19.52	20.7
5	16QAM	12	0	19.61	19.65	19.71	
5	16QAM	12	7	19.62	19.50	19.75	
5	16QAM	12	13	19.58	19.47	19.52	20.7
5	16QAM	25	0	19.66	19.65	19.76	
5	64QAM	1	0	19.31	19.28	19.44	
5	64QAM	1	12	19.31	19.38	19.39	20.7
5	64QAM	1	24	19.13	19.14	19.22	
5	64QAM	12	0	19.74	19.72	19.63	
5	64QAM	12	7	19.62	19.68	19.66	20.7
5	64QAM	12	13	19.63	19.50	19.60	
5	64QAM	25	0	19.55	19.59	19.59	
5	256QAM	1	0	19.01	18.94	18.82	20
5	256QAM	1	12	18.78	18.78	18.54	
5	256QAM	1	24	18.52	18.71	18.64	
5	256QAM	12	0	18.99	19.06	19.16	20
5	256QAM	12	7	18.88	19.01	18.90	
5	256QAM	12	13	18.80	19.06	18.80	
5	256QAM	25	0	19.01	18.78	18.89	



<LTE Band 38_Ant 1_Index 10>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	23.61	23.74	23.84	
20	QPSK	1	49	23.61	23.69	23.70	25
20	QPSK	1	99	23.58	23.63	23.66	
20	QPSK	50	0	23.09	23.31	23.35	
20	QPSK	50	24	23.03	23.21	23.28	24
20	QPSK	50	50	23.03	23.08	23.23	
20	QPSK	100	0	23.01	23.26	23.27	
20	16QAM	1	0	23.17	23.27	23.48	24
20	16QAM	1	49	23.03	23.26	23.38	
20	16QAM	1	99	23.05	23.31	23.31	
20	16QAM	50	0	22.03	22.21	22.37	23
20	16QAM	50	24	22.07	22.18	22.33	
20	16QAM	50	50	22.04	22.09	22.24	
20	16QAM	100	0	22.20	22.24	22.23	23
20	64QAM	1	0	21.72	21.86	22.01	
20	64QAM	1	49	21.69	21.86	22.04	
20	64QAM	1	99	21.74	21.77	21.85	22
20	64QAM	50	0	21.20	21.22	21.42	
20	64QAM	50	24	21.16	21.21	21.34	
20	64QAM	50	50	21.13	21.15	21.26	20
20	64QAM	100	0	21.07	21.12	21.23	
20	256QAM	1	0	18.86	18.99	19.07	
20	256QAM	1	49	18.93	19.09	19.13	20
20	256QAM	1	99	18.78	19.03	19.05	
20	256QAM	50	0	19.01	19.31	19.21	
20	256QAM	50	24	18.99	19.24	19.36	20
20	256QAM	50	50	19.00	19.28	19.29	
20	256QAM	100	0	19.10	19.07	19.22	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	23.59	23.61	23.75	
15	QPSK	1	37	23.52	23.49	23.69	25
15	QPSK	1	74	23.53	23.55	23.61	
15	QPSK	36	0	22.90	23.17	23.12	
15	QPSK	36	20	22.88	23.29	23.07	24
15	QPSK	36	39	23.01	23.05	22.97	
15	QPSK	75	0	23.04	23.03	23.18	
15	16QAM	1	0	23.17	23.37	23.51	24
15	16QAM	1	37	23.07	23.26	23.35	
15	16QAM	1	74	23.13	23.26	23.10	
15	16QAM	36	0	21.95	22.07	22.25	23
15	16QAM	36	20	22.10	22.03	22.33	
15	16QAM	36	39	21.87	22.03	22.14	
15	16QAM	75	0	21.91	22.18	22.21	23
15	64QAM	1	0	21.69	21.88	21.95	
15	64QAM	1	37	21.61	21.71	21.73	
15	64QAM	1	74	21.66	21.71	21.89	22
15	64QAM	36	0	20.91	21.13	21.23	
15	64QAM	36	20	20.98	21.19	21.14	
15	64QAM	36	39	20.97	21.10	21.08	20
15	64QAM	75	0	21.13	20.99	21.10	
15	256QAM	1	0	18.85	18.97	18.97	
15	256QAM	1	37	18.82	18.98	18.91	20
15	256QAM	1	74	18.81	18.98	18.92	
15	256QAM	36	0	19.02	19.12	19.08	
15	256QAM	36	20	18.92	19.07	19.11	20
15	256QAM	36	39	18.79	19.20	18.97	



FCC SAR TEST REPORT

Report No. : FA4N0920C

15	256QAM	75	0	18.97	18.93	19.13	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	23.47	23.64	23.74	25
10	QPSK	1	25	23.46	23.60	23.60	
10	QPSK	1	49	23.57	23.49	23.64	
10	QPSK	25	0	23.09	23.14	23.13	24
10	QPSK	25	12	22.98	23.02	23.10	
10	QPSK	25	25	22.91	23.16	23.19	
10	QPSK	50	0	23.09	22.98	23.19	24
10	16QAM	1	0	23.00	23.17	23.33	
10	16QAM	1	25	23.13	23.11	23.13	
10	16QAM	1	49	23.14	23.05	23.25	23
10	16QAM	25	0	22.02	22.05	22.12	
10	16QAM	25	12	21.94	22.09	22.13	
10	16QAM	25	25	21.99	22.26	22.15	23
10	16QAM	50	0	21.89	22.07	22.15	
10	64QAM	1	0	21.73	21.83	21.81	
10	64QAM	1	25	21.70	21.76	21.92	23
10	64QAM	1	49	21.60	21.75	21.93	
10	64QAM	25	0	21.00	21.19	21.23	
10	64QAM	25	12	20.96	21.21	21.10	22
10	64QAM	25	25	20.87	21.00	21.31	
10	64QAM	50	0	20.90	21.13	21.24	
10	256QAM	1	0	18.81	18.99	19.04	20
10	256QAM	1	25	18.73	18.99	19.19	
10	256QAM	1	49	18.65	18.90	18.80	
10	256QAM	25	0	18.84	19.02	19.03	20
10	256QAM	25	12	18.88	19.16	19.07	
10	256QAM	25	25	18.95	19.13	19.14	
10	256QAM	50	0	18.88	19.11	19.26	Tune-up limit (dBm)
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	23.41	23.69	23.74	25
5	QPSK	1	12	23.56	23.67	23.64	
5	QPSK	1	24	23.55	23.43	23.49	
5	QPSK	12	0	23.06	23.09	23.26	24
5	QPSK	12	7	22.93	23.12	23.24	
5	QPSK	12	13	22.93	22.96	23.14	
5	QPSK	25	0	22.90	23.15	23.34	24
5	16QAM	1	0	23.11	23.25	23.40	
5	16QAM	1	12	23.04	23.08	23.07	
5	16QAM	1	24	22.96	23.30	23.23	23
5	16QAM	12	0	22.20	22.26	22.26	
5	16QAM	12	7	22.01	21.97	22.25	
5	16QAM	12	13	22.05	22.05	22.06	23
5	16QAM	25	0	22.16	22.10	22.13	
5	64QAM	1	0	21.69	21.75	21.88	
5	64QAM	1	12	21.65	21.81	21.79	23
5	64QAM	1	24	21.52	21.76	21.84	
5	64QAM	12	0	20.89	21.13	21.28	
5	64QAM	12	7	20.92	21.14	21.19	22
5	64QAM	12	13	20.99	20.90	21.21	
5	64QAM	25	0	20.99	21.02	21.04	
5	256QAM	1	0	18.85	18.82	19.11	20
5	256QAM	1	12	18.65	18.87	18.90	
5	256QAM	1	24	18.78	18.92	18.93	
5	256QAM	12	0	19.01	19.21	19.19	20
5	256QAM	12	7	19.01	19.30	19.13	
5	256QAM	12	13	18.91	19.09	19.07	
5	256QAM	25	0	18.87	19.07	19.21	



<LTE Band 38_Ant 0_Index 10>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	23.32	23.27	23.31	
20	QPSK	1	49	23.17	23.25	23.28	24.8
20	QPSK	1	99	23.13	23.05	23.14	
20	QPSK	50	0	22.90	22.80	22.90	
20	QPSK	50	24	22.85	22.76	22.83	24
20	QPSK	50	50	22.81	22.70	22.77	
20	QPSK	100	0	22.83	22.77	22.82	
20	16QAM	1	0	22.99	22.98	23.06	24
20	16QAM	1	49	22.89	22.81	22.88	
20	16QAM	1	99	22.83	22.72	22.79	
20	16QAM	50	0	21.90	21.88	21.96	23
20	16QAM	50	24	21.92	21.84	21.87	
20	16QAM	50	50	21.86	21.76	21.80	
20	16QAM	100	0	21.88	21.81	21.85	23
20	64QAM	1	0	21.57	21.55	21.59	
20	64QAM	1	49	21.58	21.47	21.55	
20	64QAM	1	99	21.40	21.28	21.40	22
20	64QAM	50	0	20.88	20.82	20.90	
20	64QAM	50	24	20.86	20.75	20.83	
20	64QAM	50	50	20.79	20.69	20.77	20
20	64QAM	100	0	20.83	20.76	20.82	
20	256QAM	1	0	18.89	18.96	18.88	
20	256QAM	1	49	18.90	18.80	18.72	20
20	256QAM	1	99	18.68	18.71	18.71	
20	256QAM	50	0	18.92	19.09	19.00	
20	256QAM	50	24	18.94	18.90	18.89	20
20	256QAM	50	50	19.00	19.01	18.89	
20	256QAM	100	0	19.01	18.98	19.05	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	23.21	23.21	23.20	
15	QPSK	1	37	23.02	23.05	23.28	24.8
15	QPSK	1	74	23.11	22.97	23.11	
15	QPSK	36	0	22.77	22.64	22.86	
15	QPSK	36	20	22.77	22.69	22.70	24
15	QPSK	36	39	22.61	22.69	22.58	
15	QPSK	75	0	22.70	22.61	22.75	
15	16QAM	1	0	22.80	22.92	22.99	24
15	16QAM	1	37	22.79	22.78	22.74	
15	16QAM	1	74	22.75	22.55	22.73	
15	16QAM	36	0	21.74	21.75	21.84	23
15	16QAM	36	20	21.76	21.71	21.67	
15	16QAM	36	39	21.76	21.63	21.60	
15	16QAM	75	0	21.70	21.64	21.67	23
15	64QAM	1	0	21.42	21.42	21.57	
15	64QAM	1	37	21.58	21.36	21.55	
15	64QAM	1	74	21.35	21.20	21.28	22
15	64QAM	36	0	20.87	20.67	20.87	
15	64QAM	36	20	20.80	20.55	20.66	
15	64QAM	36	39	20.63	20.58	20.65	20
15	64QAM	75	0	20.69	20.56	20.69	
15	256QAM	1	0	18.86	18.78	18.71	
15	256QAM	1	37	18.71	18.68	18.55	20
15	256QAM	1	74	18.65	18.70	18.65	
15	256QAM	36	0	18.73	18.89	18.85	
15	256QAM	36	20	18.80	18.81	18.79	20
15	256QAM	36	39	18.82	18.98	18.88	



FCC SAR TEST REPORT

Report No. : FA4N0920C

15	256QAM	75	0	18.94	18.91	19.03	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	23.18	23.26	23.26	24.8
10	QPSK	1	25	23.04	23.25	23.13	
10	QPSK	1	49	23.02	23.01	23.05	
10	QPSK	25	0	22.81	22.67	22.85	24
10	QPSK	25	12	22.72	22.65	22.83	
10	QPSK	25	25	22.62	22.51	22.63	
10	QPSK	50	0	22.65	22.71	22.74	
10	16QAM	1	0	22.87	22.90	23.04	24
10	16QAM	1	25	22.72	22.71	22.74	
10	16QAM	1	49	22.67	22.64	22.59	
10	16QAM	25	0	21.89	21.85	21.94	23
10	16QAM	25	12	21.73	21.72	21.79	
10	16QAM	25	25	21.83	21.56	21.66	
10	16QAM	50	0	21.80	21.81	21.70	
10	64QAM	1	0	21.51	21.38	21.50	23
10	64QAM	1	25	21.42	21.29	21.41	
10	64QAM	1	49	21.23	21.26	21.34	
10	64QAM	25	0	20.76	20.67	20.90	22
10	64QAM	25	12	20.83	20.60	20.79	
10	64QAM	25	25	20.64	20.68	20.60	
10	64QAM	50	0	20.80	20.61	20.73	
10	256QAM	1	0	18.80	18.88	18.72	20
10	256QAM	1	25	18.88	18.75	18.60	
10	256QAM	1	49	18.63	18.53	18.55	
10	256QAM	25	0	18.74	18.97	18.91	20
10	256QAM	25	12	18.77	18.83	18.70	
10	256QAM	25	25	18.96	18.85	18.75	
10	256QAM	50	0	18.85	18.94	18.86	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	23.32	23.23	23.17	24.8
5	QPSK	1	12	23.04	23.13	23.11	
5	QPSK	1	24	23.03	22.95	22.99	
5	QPSK	12	0	22.76	22.69	22.88	24
5	QPSK	12	7	22.83	22.57	22.70	
5	QPSK	12	13	22.76	22.69	22.76	
5	QPSK	25	0	22.76	22.63	22.68	
5	16QAM	1	0	22.92	22.82	22.96	24
5	16QAM	1	12	22.83	22.61	22.84	
5	16QAM	1	24	22.64	22.70	22.64	
5	16QAM	12	0	21.73	21.73	21.79	23
5	16QAM	12	7	21.87	21.74	21.74	
5	16QAM	12	13	21.82	21.66	21.76	
5	16QAM	25	0	21.78	21.65	21.80	
5	64QAM	1	0	21.56	21.45	21.57	23
5	64QAM	1	12	21.53	21.32	21.37	
5	64QAM	1	24	21.30	21.11	21.39	
5	64QAM	12	0	20.81	20.74	20.86	22
5	64QAM	12	7	20.72	20.55	20.78	
5	64QAM	12	13	20.62	20.64	20.65	
5	64QAM	25	0	20.74	20.60	20.70	
5	256QAM	1	0	18.69	18.96	18.76	20
5	256QAM	1	12	18.86	18.80	18.56	
5	256QAM	1	24	18.68	18.71	18.65	
5	256QAM	12	0	18.74	18.93	18.94	20
5	256QAM	12	7	18.91	18.78	18.73	
5	256QAM	12	13	18.98	18.86	18.85	
5	256QAM	25	0	18.86	18.84	18.95	



<LTE Band 38_Ant 5_Index 10>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	24.01	23.94	24.11	
20	QPSK	1	49	23.90	23.95	24.10	25
20	QPSK	1	99	23.86	23.82	24.00	
20	QPSK	50	0	22.96	22.95	23.04	
20	QPSK	50	24	22.94	22.91	23.01	24
20	QPSK	50	50	22.91	22.87	22.97	
20	QPSK	100	0	22.90	22.91	23.02	
20	16QAM	1	0	23.05	23.06	23.20	24
20	16QAM	1	49	22.97	22.96	23.09	
20	16QAM	1	99	22.90	22.91	23.01	
20	16QAM	50	0	21.96	21.93	22.09	23
20	16QAM	50	24	21.94	21.95	22.06	
20	16QAM	50	50	21.93	21.89	21.99	
20	16QAM	100	0	21.94	21.93	22.03	23
20	64QAM	1	0	21.64	21.59	21.75	
20	64QAM	1	49	21.62	21.58	21.76	
20	64QAM	1	99	21.49	21.45	21.60	22
20	64QAM	50	0	20.93	20.88	21.05	
20	64QAM	50	24	20.88	20.87	20.99	
20	64QAM	50	50	20.87	20.84	20.97	20
20	64QAM	100	0	20.92	20.87	21.02	
20	256QAM	1	0	18.75	18.73	18.84	
20	256QAM	1	49	18.47	18.51	18.67	20
20	256QAM	1	99	18.41	18.51	18.65	
20	256QAM	50	0	18.79	18.81	18.93	20
20	256QAM	50	24	18.83	18.82	18.99	
20	256QAM	50	50	18.80	18.67	18.84	
20	256QAM	100	0	18.77	18.83	18.69	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	23.91	23.85	23.99	
15	QPSK	1	37	23.82	23.75	24.07	25
15	QPSK	1	74	23.85	23.80	24.00	
15	QPSK	36	0	22.82	22.86	22.91	24
15	QPSK	36	20	22.85	22.82	22.86	
15	QPSK	36	39	22.72	22.68	22.93	
15	QPSK	75	0	22.86	22.86	23.02	24
15	16QAM	1	0	22.94	22.97	23.15	
15	16QAM	1	37	22.87	22.84	22.91	
15	16QAM	1	74	22.84	22.78	22.83	23
15	16QAM	36	0	21.88	21.74	21.97	
15	16QAM	36	20	21.77	21.93	22.04	
15	16QAM	36	39	21.90	21.86	21.81	23
15	16QAM	75	0	21.79	21.89	21.95	
15	64QAM	1	0	21.56	21.43	21.56	
15	64QAM	1	37	21.51	21.55	21.73	22
15	64QAM	1	74	21.41	21.29	21.57	
15	64QAM	36	0	20.92	20.70	20.92	
15	64QAM	36	20	20.69	20.77	20.95	20
15	64QAM	36	39	20.74	20.74	20.78	
15	64QAM	75	0	20.78	20.76	20.88	
15	256QAM	1	0	18.67	18.73	18.68	20
15	256QAM	1	37	18.30	18.44	18.58	
15	256QAM	1	74	18.25	18.46	18.54	
15	256QAM	36	0	18.71	18.76	18.81	20
15	256QAM	36	20	18.65	18.81	18.83	
15	256QAM	36	39	18.80	18.55	18.72	



FCC SAR TEST REPORT

Report No. : FA4N0920C

15	256QAM	75	0	18.69	18.69	18.69	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	24.00	23.74	23.98	25
10	QPSK	1	25	23.88	23.90	24.07	
10	QPSK	1	49	23.85	23.82	23.88	
10	QPSK	25	0	22.79	22.84	23.04	24
10	QPSK	25	12	22.74	22.82	22.98	
10	QPSK	25	25	22.78	22.78	22.83	
10	QPSK	50	0	22.81	22.71	23.01	24
10	16QAM	1	0	22.88	23.05	23.06	
10	16QAM	1	25	22.91	22.82	22.94	
10	16QAM	1	49	22.83	22.83	22.84	23
10	16QAM	25	0	21.89	21.74	21.98	
10	16QAM	25	12	21.76	21.92	21.91	
10	16QAM	25	25	21.91	21.81	21.92	23
10	16QAM	50	0	21.75	21.83	22.00	
10	64QAM	1	0	21.46	21.43	21.66	
10	64QAM	1	25	21.55	21.57	21.65	23
10	64QAM	1	49	21.32	21.43	21.56	
10	64QAM	25	0	20.92	20.74	20.98	
10	64QAM	25	12	20.70	20.71	20.88	22
10	64QAM	25	25	20.69	20.82	20.96	
10	64QAM	50	0	20.81	20.83	20.88	
10	256QAM	1	0	18.71	18.70	18.68	20
10	256QAM	1	25	18.42	18.45	18.49	
10	256QAM	1	49	18.24	18.39	18.55	
10	256QAM	25	0	18.79	18.65	18.89	20
10	256QAM	25	12	18.68	18.71	18.93	
10	256QAM	25	25	18.65	18.56	18.81	
10	256QAM	50	0	18.63	18.69	18.64	Tune-up limit (dBm)
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	24.01	23.92	23.92	25
5	QPSK	1	12	23.79	23.78	24.08	
5	QPSK	1	24	23.80	23.66	23.98	
5	QPSK	12	0	22.91	22.82	23.00	24
5	QPSK	12	7	22.87	22.71	22.96	
5	QPSK	12	13	22.81	22.67	22.78	
5	QPSK	25	0	22.82	22.87	22.92	24
5	16QAM	1	0	22.97	23.00	23.11	
5	16QAM	1	12	22.96	22.92	22.97	
5	16QAM	1	24	22.86	22.87	22.89	23
5	16QAM	12	0	21.82	21.74	22.02	
5	16QAM	12	7	21.86	21.86	22.03	
5	16QAM	12	13	21.73	21.73	21.81	23
5	16QAM	25	0	21.86	21.82	22.03	
5	64QAM	1	0	21.44	21.44	21.62	
5	64QAM	1	12	21.58	21.53	21.68	23
5	64QAM	1	24	21.34	21.35	21.58	
5	64QAM	12	0	20.79	20.82	20.94	
5	64QAM	12	7	20.86	20.77	20.89	22
5	64QAM	12	13	20.67	20.74	20.95	
5	64QAM	25	0	20.75	20.83	20.90	
5	256QAM	1	0	18.65	18.58	18.65	20
5	256QAM	1	12	18.32	18.31	18.61	
5	256QAM	1	24	18.40	18.46	18.52	
5	256QAM	12	0	18.69	18.78	18.89	20
5	256QAM	12	7	18.63	18.78	18.88	
5	256QAM	12	13	18.76	18.55	18.68	
5	256QAM	25	0	18.61	18.81	18.65	



<LTE Band 38_HPUE_Ant 2_Index 10>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	21.22	21.17	21.26	
20	QPSK	1	49	21.08	21.04	21.14	22.3
20	QPSK	1	99	21.04	21.01	21.12	
20	QPSK	50	0	21.23	21.18	21.25	
20	QPSK	50	24	21.20	21.13	21.19	22.3
20	QPSK	50	50	21.13	21.08	21.15	
20	QPSK	100	0	21.17	21.13	21.21	
20	16QAM	1	0	21.19	21.12	21.19	22.3
20	16QAM	1	49	21.06	21.01	21.08	
20	16QAM	1	99	20.99	20.97	21.06	
20	16QAM	50	0	21.19	21.25	21.00	22.3
20	16QAM	50	24	21.16	21.18	21.24	
20	16QAM	50	50	21.19	21.14	21.21	
20	16QAM	100	0	21.23	21.17	21.25	22.3
20	64QAM	1	0	20.93	20.86	20.97	
20	64QAM	1	49	21.18	21.10	21.22	
20	64QAM	1	99	21.14	21.12	21.19	22.3
20	64QAM	50	0	21.24	21.19	21.24	
20	64QAM	50	24	21.20	21.13	21.21	
20	64QAM	50	50	21.15	21.11	21.20	21.9
20	64QAM	100	0	21.20	21.16	21.25	
20	256QAM	1	0	21.10	20.94	20.99	
20	256QAM	1	49	20.97	20.93	20.82	21.9
20	256QAM	1	99	20.93	20.89	20.85	
20	256QAM	50	0	21.01	21.01	21.06	
20	256QAM	50	24	21.01	20.96	21.16	21.9
20	256QAM	50	50	20.91	20.84	20.85	
20	256QAM	100	0	20.88	20.90	20.98	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	21.11	21.09	21.08	
15	QPSK	1	37	21.07	20.94	21.12	22.3
15	QPSK	1	74	21.01	20.81	20.92	
15	QPSK	36	0	21.22	21.12	21.10	
15	QPSK	36	20	21.01	20.96	21.00	22.3
15	QPSK	36	39	21.02	21.05	21.03	
15	QPSK	75	0	21.16	20.96	21.21	
15	16QAM	1	0	21.16	20.94	21.03	22.3
15	16QAM	1	37	20.87	20.83	20.89	
15	16QAM	1	74	20.79	20.80	20.97	
15	16QAM	36	0	21.19	21.07	20.86	22.3
15	16QAM	36	20	21.14	21.18	21.11	
15	16QAM	36	39	21.01	21.09	21.14	
15	16QAM	75	0	21.23	21.00	21.18	22.3
15	64QAM	1	0	20.73	20.74	20.82	
15	64QAM	1	37	21.11	20.95	21.12	
15	64QAM	1	74	20.96	21.00	21.09	22.3
15	64QAM	36	0	21.13	21.05	21.17	
15	64QAM	36	20	21.16	20.97	21.15	
15	64QAM	36	39	21.14	21.09	21.01	21.9
15	64QAM	75	0	21.17	20.96	21.20	
15	256QAM	1	0	20.97	20.83	20.98	
15	256QAM	1	37	20.82	20.93	20.73	21.9
15	256QAM	1	74	20.76	20.72	20.80	
15	256QAM	36	0	20.91	21.00	20.98	
15	256QAM	36	20	20.95	20.91	21.11	21.9
15	256QAM	36	39	20.77	20.78	20.72	



FCC SAR TEST REPORT

Report No. : FA4N0920C

15	256QAM	75	0	20.80	20.76	20.80	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	21.17	21.00	21.16	22.3
10	QPSK	1	25	21.02	21.03	20.95	
10	QPSK	1	49	21.03	20.82	20.97	
10	QPSK	25	0	21.13	21.02	21.25	22.3
10	QPSK	25	12	21.18	21.00	21.01	
10	QPSK	25	25	20.99	21.05	21.07	
10	QPSK	50	0	21.00	21.12	21.12	22.3
10	16QAM	1	0	20.99	21.00	21.11	
10	16QAM	1	25	20.97	21.00	21.03	
10	16QAM	1	49	20.88	20.93	20.86	22.3
10	16QAM	25	0	21.09	21.19	20.93	
10	16QAM	25	12	20.96	21.14	21.23	
10	16QAM	25	25	21.06	21.05	21.19	22.3
10	16QAM	50	0	21.22	21.11	21.09	
10	64QAM	1	0	20.74	20.71	20.94	
10	64QAM	1	25	21.11	21.08	21.04	22.3
10	64QAM	1	49	20.98	21.10	21.10	
10	64QAM	25	0	21.20	21.06	21.13	
10	64QAM	25	12	21.11	21.03	21.21	22.3
10	64QAM	25	25	21.10	21.00	21.07	
10	64QAM	50	0	21.00	20.96	21.18	
10	256QAM	1	0	20.99	20.81	20.85	21.9
10	256QAM	1	25	20.92	20.75	20.73	
10	256QAM	1	49	20.81	20.87	20.71	
10	256QAM	25	0	20.91	20.88	20.97	21.9
10	256QAM	25	12	21.00	20.95	20.99	
10	256QAM	25	25	20.84	20.72	20.70	
10	256QAM	50	0	20.76	20.86	20.96	Tune-up limit (dBm)
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	21.21	21.08	21.23	22.3
5	QPSK	1	12	20.90	20.97	20.97	
5	QPSK	1	24	20.89	20.81	20.94	
5	QPSK	12	0	21.21	21.10	21.11	22.3
5	QPSK	12	7	21.09	20.97	21.15	
5	QPSK	12	13	20.97	20.99	20.99	
5	QPSK	25	0	21.12	20.95	21.02	22.3
5	16QAM	1	0	21.13	21.06	21.07	
5	16QAM	1	12	20.93	20.91	20.92	
5	16QAM	1	24	20.85	20.80	21.01	22.3
5	16QAM	12	0	21.07	21.14	20.82	
5	16QAM	12	7	21.11	21.13	21.07	
5	16QAM	12	13	21.04	21.01	21.21	22.3
5	16QAM	25	0	21.05	21.06	21.05	
5	64QAM	1	0	20.76	20.83	20.88	
5	64QAM	1	12	20.99	21.03	21.18	22.3
5	64QAM	1	24	20.96	21.08	21.09	
5	64QAM	12	0	21.23	21.13	21.10	
5	64QAM	12	7	21.06	21.07	21.12	22.3
5	64QAM	12	13	21.05	21.10	21.18	
5	64QAM	25	0	21.04	21.13	21.10	
5	256QAM	1	0	20.95	20.85	20.97	21.9
5	256QAM	1	12	20.97	20.73	20.65	
5	256QAM	1	24	20.77	20.69	20.80	
5	256QAM	12	0	20.98	20.84	21.03	21.9
5	256QAM	12	7	20.88	20.89	21.12	
5	256QAM	12	13	20.88	20.70	20.85	
5	256QAM	25	0	20.76	20.86	20.96	



<LTE Band 38_HPUE_Ant 1_Index 10>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	25.47	25.61	25.67	
20	QPSK	1	49	25.40	25.49	25.48	26.7
20	QPSK	1	99	25.43	25.44	25.44	
20	QPSK	50	0	24.99	25.13	25.15	
20	QPSK	50	24	24.98	25.05	25.28	25.9
20	QPSK	50	50	24.87	25.10	25.15	
20	QPSK	100	0	24.92	25.04	25.15	
20	16QAM	1	0	25.34	25.58	25.56	25.9
20	16QAM	1	49	25.18	25.31	25.27	
20	16QAM	1	99	25.32	25.29	25.36	
20	16QAM	50	0	24.10	24.25	24.35	24.9
20	16QAM	50	24	24.13	24.19	24.32	
20	16QAM	50	50	23.91	24.13	24.29	
20	16QAM	100	0	23.94	24.17	24.30	24.9
20	64QAM	1	0	23.97	24.18	24.28	
20	64QAM	1	49	23.93	24.10	24.05	
20	64QAM	1	99	23.96	24.10	24.09	23.9
20	64QAM	50	0	22.91	23.20	23.13	
20	64QAM	50	24	22.95	23.13	23.05	
20	64QAM	50	50	22.91	22.98	23.06	21.9
20	64QAM	100	0	22.94	23.01	23.15	
20	256QAM	1	0	21.02	21.17	21.31	
20	256QAM	1	49	20.82	21.05	21.07	21.9
20	256QAM	1	99	20.79	21.09	20.95	
20	256QAM	50	0	20.99	21.17	21.23	
20	256QAM	50	24	20.80	21.25	21.26	21.9
20	256QAM	50	50	20.80	21.01	21.16	
20	256QAM	100	0	20.88	21.13	21.16	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	25.40	25.59	25.56	
15	QPSK	1	37	25.37	25.34	25.32	26.7
15	QPSK	1	74	25.39	25.42	25.33	
15	QPSK	36	0	24.94	25.02	25.16	
15	QPSK	36	20	24.93	24.93	24.96	25.9
15	QPSK	36	39	24.88	24.82	25.05	
15	QPSK	75	0	24.89	25.09	25.12	
15	16QAM	1	0	25.19	25.23	25.45	25.9
15	16QAM	1	37	25.27	25.18	25.24	
15	16QAM	1	74	25.21	25.35	25.04	
15	16QAM	36	0	23.94	23.98	24.15	24.9
15	16QAM	36	20	23.78	23.93	24.13	
15	16QAM	36	39	23.89	23.96	24.17	
15	16QAM	75	0	23.93	24.09	24.17	24.9
15	64QAM	1	0	23.97	24.25	24.24	
15	64QAM	1	37	23.82	24.00	24.04	
15	64QAM	1	74	23.87	23.99	23.83	23.9
15	64QAM	36	0	22.70	23.02	23.02	
15	64QAM	36	20	22.89	23.12	23.13	
15	64QAM	36	39	22.78	22.79	23.04	21.9
15	64QAM	75	0	22.90	22.94	23.05	
15	256QAM	1	0	21.04	21.03	21.02	
15	256QAM	1	37	20.74	20.93	20.99	21.9
15	256QAM	1	74	20.59	20.83	20.99	
15	256QAM	36	0	21.04	21.17	20.96	
15	256QAM	36	20	20.79	20.95	20.99	21.9
15	256QAM	36	39	20.86	20.87	21.18	



FCC SAR TEST REPORT

Report No. : FA4N0920C

15	256QAM	75	0	20.76	20.86	21.09	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	25.29	25.61	25.55	26.7
10	QPSK	1	25	25.25	25.30	25.42	
10	QPSK	1	49	25.27	25.24	25.31	
10	QPSK	25	0	25.01	25.14	25.21	25.9
10	QPSK	25	12	24.92	25.10	24.90	
10	QPSK	25	25	24.77	24.97	25.15	
10	QPSK	50	0	24.90	25.09	24.95	25.9
10	16QAM	1	0	25.20	25.36	25.53	
10	16QAM	1	25	25.16	25.35	25.05	
10	16QAM	1	49	25.14	25.21	25.33	24.9
10	16QAM	25	0	23.89	24.16	24.12	
10	16QAM	25	12	23.98	24.18	24.21	
10	16QAM	25	25	23.82	24.06	24.04	24.9
10	16QAM	50	0	23.97	24.01	23.97	
10	64QAM	1	0	23.81	24.01	24.16	
10	64QAM	1	25	23.91	23.83	24.08	24.9
10	64QAM	1	49	23.91	23.96	24.07	
10	64QAM	25	0	22.89	22.88	23.24	
10	64QAM	25	12	22.76	22.93	23.09	23.9
10	64QAM	25	25	22.91	22.92	23.01	
10	64QAM	50	0	22.84	23.09	23.18	
10	256QAM	1	0	20.80	20.95	21.25	21.9
10	256QAM	1	25	20.77	20.88	20.99	
10	256QAM	1	49	20.77	20.84	21.00	
10	256QAM	25	0	20.84	21.21	21.18	21.9
10	256QAM	25	12	20.85	21.07	21.11	
10	256QAM	25	25	20.84	21.04	21.01	
10	256QAM	50	0	20.75	20.97	21.04	Tune-up limit (dBm)
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	25.35	25.60	25.61	26.7
5	QPSK	1	12	25.37	25.48	25.46	
5	QPSK	1	24	25.37	25.41	25.25	
5	QPSK	12	0	24.84	24.93	25.18	25.9
5	QPSK	12	7	25.05	24.91	24.97	
5	QPSK	12	13	24.67	24.79	25.09	
5	QPSK	25	0	24.93	24.87	25.08	25.9
5	16QAM	1	0	25.19	25.34	25.30	
5	16QAM	1	12	25.26	25.32	25.39	
5	16QAM	1	24	25.21	25.23	25.21	24.9
5	16QAM	12	0	23.91	23.98	24.28	
5	16QAM	12	7	23.77	23.93	23.98	
5	16QAM	12	13	23.86	23.93	24.06	24.9
5	16QAM	25	0	23.99	24.03	24.10	
5	64QAM	1	0	24.01	24.14	24.37	
5	64QAM	1	12	23.92	23.94	24.04	24.9
5	64QAM	1	24	23.91	23.87	23.99	
5	64QAM	12	0	22.87	22.85	23.04	
5	64QAM	12	7	22.80	22.85	23.17	23.9
5	64QAM	12	13	22.98	22.90	23.00	
5	64QAM	25	0	22.89	23.05	23.04	
5	256QAM	1	0	20.85	20.97	21.14	21.9
5	256QAM	1	12	20.70	20.82	21.16	
5	256QAM	1	24	20.63	20.85	20.78	
5	256QAM	12	0	20.94	21.11	21.05	21.9
5	256QAM	12	7	20.87	20.97	21.06	
5	256QAM	12	13	20.79	21.02	21.00	
5	256QAM	25	0	20.68	21.07	21.03	



<LTE Band 38_HPUE_Ant 0_Index 10>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	25.29	25.30	25.40	
20	QPSK	1	49	25.24	25.17	25.23	26.4
20	QPSK	1	99	25.19	25.05	25.08	
20	QPSK	50	0	25.36	25.31	25.38	
20	QPSK	50	24	25.32	25.28	25.34	25.9
20	QPSK	50	50	25.28	25.19	25.30	
20	QPSK	100	0	25.30	25.25	25.32	
20	16QAM	1	0	25.06	25.06	25.14	25.9
20	16QAM	1	49	25.02	24.96	25.02	
20	16QAM	1	99	24.92	24.83	24.83	
20	16QAM	50	0	23.87	23.84	23.92	24.9
20	16QAM	50	24	23.84	23.78	23.85	
20	16QAM	50	50	23.81	23.73	23.77	
20	16QAM	100	0	23.84	23.80	23.83	24.9
20	64QAM	1	0	23.86	23.86	23.91	
20	64QAM	1	49	23.84	23.79	23.78	
20	64QAM	1	99	23.76	23.64	23.65	23.9
20	64QAM	50	0	22.84	22.77	22.85	
20	64QAM	50	24	22.79	22.76	22.81	
20	64QAM	50	50	22.78	22.68	22.73	21.9
20	64QAM	100	0	22.79	22.74	22.81	
20	256QAM	1	0	21.10	21.20	20.93	
20	256QAM	1	49	20.79	20.75	20.77	21.9
20	256QAM	1	99	20.60	20.75	20.76	
20	256QAM	50	0	21.07	20.98	21.06	
20	256QAM	50	24	20.91	21.15	20.85	21.9
20	256QAM	50	50	20.78	21.05	20.91	
20	256QAM	100	0	20.97	21.10	20.71	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	25.26	25.21	25.28	
15	QPSK	1	37	25.07	24.98	25.03	26.4
15	QPSK	1	74	25.13	24.91	24.98	
15	QPSK	36	0	25.34	25.29	25.36	
15	QPSK	36	20	25.30	25.12	25.17	25.9
15	QPSK	36	39	25.27	25.09	25.18	
15	QPSK	75	0	25.30	25.09	25.28	
15	16QAM	1	0	24.86	24.96	24.96	25.9
15	16QAM	1	37	24.94	24.78	24.82	
15	16QAM	1	74	24.91	24.78	24.81	
15	16QAM	36	0	23.70	23.75	23.84	24.9
15	16QAM	36	20	23.83	23.77	23.65	
15	16QAM	36	39	23.67	23.67	23.64	
15	16QAM	75	0	23.72	23.70	23.64	24.9
15	64QAM	1	0	23.71	23.83	23.74	
15	64QAM	1	37	23.83	23.77	23.62	
15	64QAM	1	74	23.56	23.52	23.46	23.9
15	64QAM	36	0	22.64	22.77	22.76	
15	64QAM	36	20	22.71	22.72	22.73	
15	64QAM	36	39	22.61	22.68	22.69	21.9
15	64QAM	75	0	22.61	22.70	22.70	
15	256QAM	1	0	20.99	21.09	20.90	
15	256QAM	1	37	20.60	20.59	20.66	21.9
15	256QAM	1	74	20.49	20.55	20.58	
15	256QAM	36	0	21.04	20.83	20.92	
15	256QAM	36	20	20.75	21.10	20.68	21.9
15	256QAM	36	39	20.58	21.02	20.82	



FCC SAR TEST REPORT

Report No. : FA4N0920C

15	256QAM	75	0	20.83	20.96	20.56	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	25.26	25.17	25.39	26.4
10	QPSK	1	25	25.23	24.98	25.17	
10	QPSK	1	49	25.02	24.97	24.92	
10	QPSK	25	0	25.19	25.22	25.26	25.9
10	QPSK	25	12	25.15	25.24	25.31	
10	QPSK	25	25	25.14	25.11	25.22	
10	QPSK	50	0	25.30	25.08	25.25	25.9
10	16QAM	1	0	24.87	25.00	25.12	
10	16QAM	1	25	24.89	24.81	24.82	
10	16QAM	1	49	24.92	24.77	24.65	24.9
10	16QAM	25	0	23.76	23.69	23.84	
10	16QAM	25	12	23.74	23.61	23.83	
10	16QAM	25	25	23.61	23.70	23.63	24.9
10	16QAM	50	0	23.76	23.67	23.73	
10	64QAM	1	0	23.75	23.68	23.75	
10	64QAM	1	25	23.83	23.62	23.62	24.9
10	64QAM	1	49	23.71	23.46	23.49	
10	64QAM	25	0	22.77	22.63	22.67	
10	64QAM	25	12	22.59	22.76	22.71	23.9
10	64QAM	25	25	22.75	22.51	22.71	
10	64QAM	50	0	22.77	22.56	22.74	
10	256QAM	1	0	21.09	21.13	20.74	21.9
10	256QAM	1	25	20.62	20.60	20.75	
10	256QAM	1	49	20.52	20.75	20.76	
10	256QAM	25	0	21.02	20.79	20.96	21.9
10	256QAM	25	12	20.86	21.00	20.66	
10	256QAM	25	25	20.74	20.97	20.77	
10	256QAM	50	0	20.89	20.92	20.65	Tune-up limit (dBm)
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	25.09	25.10	25.39	26.4
5	QPSK	1	12	25.23	24.97	25.21	
5	QPSK	1	24	25.10	25.02	25.05	
5	QPSK	12	0	25.27	25.13	25.38	25.9
5	QPSK	12	7	25.20	25.25	25.20	
5	QPSK	12	13	25.12	25.15	25.27	
5	QPSK	25	0	25.16	25.16	25.21	25.9
5	16QAM	1	0	25.04	25.02	24.95	
5	16QAM	1	12	24.94	24.77	24.92	
5	16QAM	1	24	24.88	24.82	24.70	24.9
5	16QAM	12	0	23.74	23.81	23.74	
5	16QAM	12	7	23.82	23.76	23.81	
5	16QAM	12	13	23.64	23.53	23.59	24.9
5	16QAM	25	0	23.84	23.74	23.65	
5	64QAM	1	0	23.72	23.68	23.72	
5	64QAM	1	12	23.68	23.79	23.61	24.9
5	64QAM	1	24	23.64	23.46	23.59	
5	64QAM	12	0	22.84	22.70	22.79	
5	64QAM	12	7	22.63	22.61	22.70	23.9
5	64QAM	12	13	22.65	22.50	22.59	
5	64QAM	25	0	22.78	22.60	22.65	
5	256QAM	1	0	20.90	21.02	20.80	21.9
5	256QAM	1	12	20.65	20.68	20.59	
5	256QAM	1	24	20.42	20.71	20.58	
5	256QAM	12	0	20.98	20.83	21.02	21.9
5	256QAM	12	7	20.80	21.08	20.71	
5	256QAM	12	13	20.70	20.89	20.85	
5	256QAM	25	0	20.89	21.07	20.56	



<LTE Band 38_HPUE_Ant 5_Index 10>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	25.88	25.91	26.01	
20	QPSK	1	49	25.82	25.81	25.87	26.9
20	QPSK	1	99	25.79	25.71	25.74	
20	QPSK	50	0	24.90	24.89	25.04	
20	QPSK	50	24	24.87	24.85	25.00	25.9
20	QPSK	50	50	24.83	24.82	24.96	
20	QPSK	100	0	24.84	24.85	24.98	
20	16QAM	1	0	25.16	25.16	25.26	25.9
20	16QAM	1	49	25.11	25.09	25.17	
20	16QAM	1	99	25.03	24.98	25.00	
20	16QAM	50	0	23.92	23.91	24.05	24.9
20	16QAM	50	24	23.93	23.91	24.04	
20	16QAM	50	50	23.89	23.84	24.07	
20	16QAM	100	0	23.91	23.87	24.02	24.9
20	64QAM	1	0	23.94	23.91	24.06	
20	64QAM	1	49	23.88	23.85	23.96	
20	64QAM	1	99	23.82	23.76	23.87	23.9
20	64QAM	50	0	22.88	23.03	23.12	
20	64QAM	50	24	22.85	22.86	23.01	
20	64QAM	50	50	22.83	22.76	22.94	21.9
20	64QAM	100	0	22.87	22.84	22.89	
20	256QAM	1	0	20.71	20.74	20.97	
20	256QAM	1	49	20.78	20.87	20.85	21.9
20	256QAM	1	99	20.40	20.54	20.62	
20	256QAM	50	0	20.71	20.72	20.91	
20	256QAM	50	24	20.61	20.77	20.91	21.9
20	256QAM	50	50	20.78	20.76	20.92	
20	256QAM	100	0	20.81	20.73	20.72	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	25.74	25.89	25.93	
15	QPSK	1	37	25.67	25.65	25.83	26.9
15	QPSK	1	74	25.78	25.52	25.67	
15	QPSK	36	0	24.90	24.82	24.98	
15	QPSK	36	20	24.69	24.81	24.83	25.9
15	QPSK	36	39	24.78	24.79	24.96	
15	QPSK	75	0	24.65	24.81	24.88	
15	16QAM	1	0	25.02	25.12	25.14	25.9
15	16QAM	1	37	24.97	24.97	25.16	
15	16QAM	1	74	24.83	24.79	24.96	
15	16QAM	36	0	23.75	23.84	23.94	24.9
15	16QAM	36	20	23.93	23.87	23.87	
15	16QAM	36	39	23.71	23.78	24.05	
15	16QAM	75	0	23.85	23.73	23.94	24.9
15	64QAM	1	0	23.86	23.81	23.99	
15	64QAM	1	37	23.68	23.82	23.76	
15	64QAM	1	74	23.72	23.70	23.83	23.9
15	64QAM	36	0	22.79	22.86	23.06	
15	64QAM	36	20	22.73	22.72	22.97	
15	64QAM	36	39	22.74	22.58	22.76	21.9
15	64QAM	75	0	22.73	22.66	22.69	
15	256QAM	1	0	20.69	20.74	20.82	
15	256QAM	1	37	20.67	20.70	20.70	21.9
15	256QAM	1	74	20.20	20.47	20.46	
15	256QAM	36	0	20.65	20.72	20.85	
15	256QAM	36	20	20.61	20.60	20.86	21.9
15	256QAM	36	39	20.58	20.75	20.90	



FCC SAR TEST REPORT

Report No. : FA4N0920C

15	256QAM	75	0	20.69	20.58	20.69	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	25.86	25.82	25.99	26.9
10	QPSK	1	25	25.72	25.69	25.72	
10	QPSK	1	49	25.59	25.59	25.61	
10	QPSK	25	0	24.76	24.76	25.00	25.9
10	QPSK	25	12	24.76	24.83	24.98	
10	QPSK	25	25	24.76	24.66	24.87	
10	QPSK	50	0	24.80	24.82	24.82	
10	16QAM	1	0	25.13	25.05	25.12	25.9
10	16QAM	1	25	24.99	25.01	25.13	
10	16QAM	1	49	24.99	24.84	24.80	
10	16QAM	25	0	23.82	23.73	24.01	24.9
10	16QAM	25	12	23.89	23.81	23.85	
10	16QAM	25	25	23.81	23.67	23.87	
10	16QAM	50	0	23.90	23.68	24.00	
10	64QAM	1	0	23.76	23.72	23.87	24.9
10	64QAM	1	25	23.87	23.72	23.96	
10	64QAM	1	49	23.62	23.76	23.82	
10	64QAM	25	0	22.88	22.83	23.10	23.9
10	64QAM	25	12	22.75	22.66	22.99	
10	64QAM	25	25	22.79	22.61	22.89	
10	64QAM	50	0	22.69	22.80	22.70	
10	256QAM	1	0	20.51	20.65	20.78	21.9
10	256QAM	1	25	20.64	20.72	20.67	
10	256QAM	1	49	20.25	20.38	20.50	
10	256QAM	25	0	20.67	20.56	20.73	21.9
10	256QAM	25	12	20.43	20.58	20.87	
10	256QAM	25	25	20.66	20.67	20.85	
10	256QAM	50	0	20.76	20.58	20.70	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	25.70	25.81	25.88	26.9
5	QPSK	1	12	25.62	25.69	25.81	
5	QPSK	1	24	25.60	25.69	25.69	
5	QPSK	12	0	24.85	24.72	24.97	25.9
5	QPSK	12	7	24.71	24.78	24.84	
5	QPSK	12	13	24.76	24.70	24.96	
5	QPSK	25	0	24.69	24.81	24.91	
5	16QAM	1	0	25.15	25.14	25.11	25.9
5	16QAM	1	12	25.05	24.98	25.07	
5	16QAM	1	24	25.02	24.85	24.93	
5	16QAM	12	0	23.74	23.81	23.85	24.9
5	16QAM	12	7	23.83	23.72	23.84	
5	16QAM	12	13	23.77	23.71	23.93	
5	16QAM	25	0	23.73	23.78	23.97	
5	64QAM	1	0	23.84	23.88	23.94	24.9
5	64QAM	1	12	23.70	23.66	23.84	
5	64QAM	1	24	23.77	23.73	23.68	
5	64QAM	12	0	22.79	22.91	22.93	23.9
5	64QAM	12	7	22.82	22.67	22.93	
5	64QAM	12	13	22.71	22.74	22.83	
5	64QAM	25	0	22.67	22.81	22.88	
5	256QAM	1	0	20.58	20.74	20.89	21.9
5	256QAM	1	12	20.65	20.70	20.83	
5	256QAM	1	24	20.32	20.41	20.60	
5	256QAM	12	0	20.60	20.68	20.79	21.9
5	256QAM	12	7	20.48	20.77	20.71	
5	256QAM	12	13	20.71	20.66	20.87	
5	256QAM	25	0	20.64	20.72	20.61	



<LTE Band 38_Ant 2_Index 11>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	19.78	19.73	19.80	
20	QPSK	1	49	19.77	19.70	19.79	20
20	QPSK	1	99	19.57	19.57	19.65	
20	QPSK	50	0	19.75	19.67	19.76	
20	QPSK	50	24	19.70	19.61	19.69	20
20	QPSK	50	50	19.64	19.57	19.63	
20	QPSK	100	0	19.69	19.61	19.70	
20	16QAM	1	0	19.76	19.79	19.76	20
20	16QAM	1	49	19.70	19.64	19.71	
20	16QAM	1	99	19.66	19.60	19.71	
20	16QAM	50	0	19.78	19.76	19.71	20
20	16QAM	50	24	19.74	19.69	19.76	
20	16QAM	50	50	19.69	19.64	19.71	
20	16QAM	100	0	19.74	19.69	19.77	20
20	64QAM	1	0	19.49	19.46	19.51	
20	64QAM	1	49	19.45	19.40	19.47	
20	64QAM	1	99	19.29	19.24	19.36	20
20	64QAM	50	0	19.77	19.73	19.73	
20	64QAM	50	24	19.73	19.69	19.78	
20	64QAM	50	50	19.63	19.63	19.74	20
20	64QAM	100	0	19.71	19.66	19.75	
20	256QAM	1	0	19.07	19.14	19.01	
20	256QAM	1	49	18.83	18.93	18.73	20
20	256QAM	1	99	18.62	18.80	18.82	
20	256QAM	50	0	19.18	19.19	19.22	
20	256QAM	50	24	19.02	19.06	19.00	20
20	256QAM	50	50	18.99	19.09	18.95	
20	256QAM	100	0	19.02	18.97	19.05	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	19.62	19.67	19.70	
15	QPSK	1	37	19.65	19.57	19.74	20
15	QPSK	1	74	19.37	19.55	19.46	
15	QPSK	36	0	19.62	19.48	19.66	
15	QPSK	36	20	19.63	19.48	19.68	20
15	QPSK	36	39	19.61	19.56	19.46	
15	QPSK	75	0	19.68	19.58	19.67	
15	16QAM	1	0	19.61	19.64	19.76	20
15	16QAM	1	37	19.61	19.62	19.58	
15	16QAM	1	74	19.63	19.56	19.53	
15	16QAM	36	0	19.68	19.63	19.53	20
15	16QAM	36	20	19.55	19.64	19.56	
15	16QAM	36	39	19.49	19.64	19.65	
15	16QAM	75	0	19.57	19.69	19.57	20
15	64QAM	1	0	19.47	19.28	19.34	
15	64QAM	1	37	19.41	19.33	19.41	
15	64QAM	1	74	19.19	19.15	19.34	20
15	64QAM	36	0	19.65	19.65	19.56	
15	64QAM	36	20	19.71	19.67	19.60	
15	64QAM	36	39	19.46	19.63	19.74	20
15	64QAM	75	0	19.54	19.62	19.72	
15	256QAM	1	0	18.92	18.98	18.97	
15	256QAM	1	37	18.66	18.80	18.57	20
15	256QAM	1	74	18.53	18.66	18.82	
15	256QAM	36	0	19.04	19.15	19.05	
15	256QAM	36	20	18.90	19.02	18.96	20
15	256QAM	36	39	18.84	18.95	18.92	



FCC SAR TEST REPORT

Report No. : FA4N0920C

15	256QAM	75	0	18.91	18.97	19.02	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	19.62	19.72	19.65	20
10	QPSK	1	25	19.77	19.59	19.77	
10	QPSK	1	49	19.56	19.53	19.54	
10	QPSK	25	0	19.56	19.51	19.72	20
10	QPSK	25	12	19.56	19.55	19.69	
10	QPSK	25	25	19.46	19.51	19.43	
10	QPSK	50	0	19.51	19.41	19.67	20
10	16QAM	1	0	19.56	19.75	19.61	
10	16QAM	1	25	19.64	19.56	19.69	
10	16QAM	1	49	19.53	19.58	19.53	20
10	16QAM	25	0	19.75	19.56	19.71	
10	16QAM	25	12	19.59	19.59	19.62	
10	16QAM	25	25	19.69	19.53	19.55	20
10	16QAM	50	0	19.60	19.53	19.74	
10	64QAM	1	0	19.29	19.34	19.39	
10	64QAM	1	25	19.26	19.24	19.40	20
10	64QAM	1	49	19.09	19.07	19.24	
10	64QAM	25	0	19.77	19.67	19.57	
10	64QAM	25	12	19.53	19.66	19.61	20
10	64QAM	25	25	19.44	19.62	19.70	
10	64QAM	50	0	19.53	19.64	19.63	
10	256QAM	1	0	18.88	19.00	18.98	20
10	256QAM	1	25	18.82	18.77	18.64	
10	256QAM	1	49	18.44	18.70	18.74	
10	256QAM	25	0	19.09	19.03	19.14	20
10	256QAM	25	12	18.84	18.88	18.92	
10	256QAM	25	25	18.84	18.90	18.82	
10	256QAM	50	0	18.87	18.89	18.89	Tune-up limit (dBm)
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	19.72	19.61	19.78	20
5	QPSK	1	12	19.69	19.60	19.61	
5	QPSK	1	24	19.57	19.44	19.57	
5	QPSK	12	0	19.56	19.58	19.69	20
5	QPSK	12	7	19.62	19.55	19.64	
5	QPSK	12	13	19.48	19.38	19.60	
5	QPSK	25	0	19.66	19.46	19.64	20
5	16QAM	1	0	19.57	19.77	19.62	
5	16QAM	1	12	19.64	19.48	19.56	
5	16QAM	1	24	19.63	19.60	19.52	20
5	16QAM	12	0	19.61	19.65	19.71	
5	16QAM	12	7	19.62	19.50	19.75	
5	16QAM	12	13	19.58	19.47	19.52	20
5	16QAM	25	0	19.66	19.65	19.76	
5	64QAM	1	0	19.31	19.28	19.44	
5	64QAM	1	12	19.31	19.38	19.39	20
5	64QAM	1	24	19.13	19.14	19.22	
5	64QAM	12	0	19.74	19.72	19.63	
5	64QAM	12	7	19.62	19.68	19.66	20
5	64QAM	12	13	19.63	19.50	19.60	
5	64QAM	25	0	19.55	19.59	19.59	
5	256QAM	1	0	19.01	18.94	18.82	20
5	256QAM	1	12	18.78	18.78	18.54	
5	256QAM	1	24	18.52	18.71	18.64	
5	256QAM	12	0	18.99	19.06	19.16	20
5	256QAM	12	7	18.88	19.01	18.90	
5	256QAM	12	13	18.80	19.06	18.80	
5	256QAM	25	0	19.01	18.78	18.89	



<LTE Band 38_Ant 1_Index 11>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	23.61	23.74	23.84	
20	QPSK	1	49	23.61	23.69	23.70	24.4
20	QPSK	1	99	23.58	23.63	23.66	
20	QPSK	50	0	23.09	23.31	23.35	
20	QPSK	50	24	23.03	23.21	23.28	24
20	QPSK	50	50	23.03	23.08	23.23	
20	QPSK	100	0	23.01	23.26	23.27	
20	16QAM	1	0	23.17	23.27	23.48	24
20	16QAM	1	49	23.03	23.26	23.38	
20	16QAM	1	99	23.05	23.31	23.31	
20	16QAM	50	0	22.03	22.21	22.37	23
20	16QAM	50	24	22.07	22.18	22.33	
20	16QAM	50	50	22.04	22.09	22.24	
20	16QAM	100	0	22.20	22.24	22.23	23
20	64QAM	1	0	21.72	21.86	22.01	
20	64QAM	1	49	21.69	21.86	22.04	
20	64QAM	1	99	21.74	21.77	21.85	22
20	64QAM	50	0	21.20	21.22	21.42	
20	64QAM	50	24	21.16	21.21	21.34	
20	64QAM	50	50	21.13	21.15	21.26	20
20	64QAM	100	0	21.07	21.12	21.23	
20	256QAM	1	0	18.86	18.99	19.07	
20	256QAM	1	49	18.93	19.09	19.13	20
20	256QAM	1	99	18.78	19.03	19.05	
20	256QAM	50	0	19.01	19.31	19.21	
20	256QAM	50	24	18.99	19.24	19.36	20
20	256QAM	50	50	19.00	19.28	19.29	
20	256QAM	100	0	19.10	19.07	19.22	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	23.59	23.61	23.75	
15	QPSK	1	37	23.52	23.49	23.69	24.4
15	QPSK	1	74	23.53	23.55	23.61	
15	QPSK	36	0	22.90	23.17	23.12	
15	QPSK	36	20	22.88	23.29	23.07	24
15	QPSK	36	39	23.01	23.05	22.97	
15	QPSK	75	0	23.04	23.03	23.18	
15	16QAM	1	0	23.17	23.37	23.51	24
15	16QAM	1	37	23.07	23.26	23.35	
15	16QAM	1	74	23.13	23.26	23.10	
15	16QAM	36	0	21.95	22.07	22.25	23
15	16QAM	36	20	22.10	22.03	22.33	
15	16QAM	36	39	21.87	22.03	22.14	
15	16QAM	75	0	21.91	22.18	22.21	23
15	64QAM	1	0	21.69	21.88	21.95	
15	64QAM	1	37	21.61	21.71	21.73	
15	64QAM	1	74	21.66	21.71	21.89	22
15	64QAM	36	0	20.91	21.13	21.23	
15	64QAM	36	20	20.98	21.19	21.14	
15	64QAM	36	39	20.97	21.10	21.08	20
15	64QAM	75	0	21.13	20.99	21.10	
15	256QAM	1	0	18.85	18.97	18.97	
15	256QAM	1	37	18.82	18.98	18.91	20
15	256QAM	1	74	18.81	18.98	18.92	
15	256QAM	36	0	19.02	19.12	19.08	
15	256QAM	36	20	18.92	19.07	19.11	20
15	256QAM	36	39	18.79	19.20	18.97	



FCC SAR TEST REPORT

Report No. : FA4N0920C

15	256QAM	75	0	18.97	18.93	19.13	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	23.47	23.64	23.74	24.4
10	QPSK	1	25	23.46	23.60	23.60	
10	QPSK	1	49	23.57	23.49	23.64	
10	QPSK	25	0	23.09	23.14	23.13	24
10	QPSK	25	12	22.98	23.02	23.10	
10	QPSK	25	25	22.91	23.16	23.19	
10	QPSK	50	0	23.09	22.98	23.19	
10	16QAM	1	0	23.00	23.17	23.33	24
10	16QAM	1	25	23.13	23.11	23.13	
10	16QAM	1	49	23.14	23.05	23.25	
10	16QAM	25	0	22.02	22.05	22.12	23
10	16QAM	25	12	21.94	22.09	22.13	
10	16QAM	25	25	21.99	22.26	22.15	
10	16QAM	50	0	21.89	22.07	22.15	
10	64QAM	1	0	21.73	21.83	21.81	23
10	64QAM	1	25	21.70	21.76	21.92	
10	64QAM	1	49	21.60	21.75	21.93	
10	64QAM	25	0	21.00	21.19	21.23	22
10	64QAM	25	12	20.96	21.21	21.10	
10	64QAM	25	25	20.87	21.00	21.31	
10	64QAM	50	0	20.90	21.13	21.24	
10	256QAM	1	0	18.81	18.99	19.04	20
10	256QAM	1	25	18.73	18.99	19.19	
10	256QAM	1	49	18.65	18.90	18.80	
10	256QAM	25	0	18.84	19.02	19.03	20
10	256QAM	25	12	18.88	19.16	19.07	
10	256QAM	25	25	18.95	19.13	19.14	
10	256QAM	50	0	18.88	19.11	19.26	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	23.41	23.69	23.74	24.4
5	QPSK	1	12	23.56	23.67	23.64	
5	QPSK	1	24	23.55	23.43	23.49	
5	QPSK	12	0	23.06	23.09	23.26	24
5	QPSK	12	7	22.93	23.12	23.24	
5	QPSK	12	13	22.93	22.96	23.14	
5	QPSK	25	0	22.90	23.15	23.34	
5	16QAM	1	0	23.11	23.25	23.40	24
5	16QAM	1	12	23.04	23.08	23.07	
5	16QAM	1	24	22.96	23.30	23.23	
5	16QAM	12	0	22.20	22.26	22.26	23
5	16QAM	12	7	22.01	21.97	22.25	
5	16QAM	12	13	22.05	22.05	22.06	
5	16QAM	25	0	22.16	22.10	22.13	
5	64QAM	1	0	21.69	21.75	21.88	23
5	64QAM	1	12	21.65	21.81	21.79	
5	64QAM	1	24	21.52	21.76	21.84	
5	64QAM	12	0	20.89	21.13	21.28	22
5	64QAM	12	7	20.92	21.14	21.19	
5	64QAM	12	13	20.99	20.90	21.21	
5	64QAM	25	0	20.99	21.02	21.04	
5	256QAM	1	0	18.85	18.82	19.11	20
5	256QAM	1	12	18.65	18.87	18.90	
5	256QAM	1	24	18.78	18.92	18.93	
5	256QAM	12	0	19.01	19.21	19.19	20
5	256QAM	12	7	19.01	19.30	19.13	
5	256QAM	12	13	18.91	19.09	19.07	
5	256QAM	25	0	18.87	19.07	19.21	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	23.32	23.27	23.31	
20	QPSK	1	49	23.17	23.25	23.28	24.1
20	QPSK	1	99	23.13	23.05	23.14	
20	QPSK	50	0	22.90	22.80	22.90	
20	QPSK	50	24	22.85	22.76	22.83	24
20	QPSK	50	50	22.81	22.70	22.77	
20	QPSK	100	0	22.83	22.77	22.82	
20	16QAM	1	0	22.99	22.98	23.06	24
20	16QAM	1	49	22.89	22.81	22.88	
20	16QAM	1	99	22.83	22.72	22.79	
20	16QAM	50	0	21.90	21.88	21.96	23
20	16QAM	50	24	21.92	21.84	21.87	
20	16QAM	50	50	21.86	21.76	21.80	
20	16QAM	100	0	21.88	21.81	21.85	23
20	64QAM	1	0	21.57	21.55	21.59	
20	64QAM	1	49	21.58	21.47	21.55	
20	64QAM	1	99	21.40	21.28	21.40	22
20	64QAM	50	0	20.88	20.82	20.90	
20	64QAM	50	24	20.86	20.75	20.83	
20	64QAM	50	50	20.79	20.69	20.77	20
20	64QAM	100	0	20.83	20.76	20.82	
20	256QAM	1	0	18.89	18.96	18.88	
20	256QAM	1	49	18.90	18.80	18.72	20
20	256QAM	1	99	18.68	18.71	18.71	
20	256QAM	50	0	18.92	19.09	19.00	
20	256QAM	50	24	18.94	18.90	18.89	20
20	256QAM	50	50	19.00	19.01	18.89	
20	256QAM	100	0	19.01	18.98	19.05	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	23.21	23.21	23.20	
15	QPSK	1	37	23.02	23.05	23.28	24.1
15	QPSK	1	74	23.11	22.97	23.11	
15	QPSK	36	0	22.77	22.64	22.86	
15	QPSK	36	20	22.77	22.69	22.70	24
15	QPSK	36	39	22.61	22.69	22.58	
15	QPSK	75	0	22.70	22.61	22.75	
15	16QAM	1	0	22.80	22.92	22.99	24
15	16QAM	1	37	22.79	22.78	22.74	
15	16QAM	1	74	22.75	22.55	22.73	
15	16QAM	36	0	21.74	21.75	21.84	23
15	16QAM	36	20	21.76	21.71	21.67	
15	16QAM	36	39	21.76	21.63	21.60	
15	16QAM	75	0	21.70	21.64	21.67	23
15	64QAM	1	0	21.42	21.42	21.57	
15	64QAM	1	37	21.58	21.36	21.55	
15	64QAM	1	74	21.35	21.20	21.28	22
15	64QAM	36	0	20.87	20.67	20.87	
15	64QAM	36	20	20.80	20.55	20.66	
15	64QAM	36	39	20.63	20.58	20.65	20
15	64QAM	75	0	20.69	20.56	20.69	
15	256QAM	1	0	18.86	18.78	18.71	
15	256QAM	1	37	18.71	18.68	18.55	20
15	256QAM	1	74	18.65	18.70	18.65	
15	256QAM	36	0	18.73	18.89	18.85	
15	256QAM	36	20	18.80	18.81	18.79	20
15	256QAM	36	39	18.82	18.98	18.88	



FCC SAR TEST REPORT

Report No. : FA4N0920C

15	256QAM	75	0	18.94	18.91	19.03	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	23.18	23.26	23.26	24.1
10	QPSK	1	25	23.04	23.25	23.13	
10	QPSK	1	49	23.02	23.01	23.05	
10	QPSK	25	0	22.81	22.67	22.85	24
10	QPSK	25	12	22.72	22.65	22.83	
10	QPSK	25	25	22.62	22.51	22.63	
10	QPSK	50	0	22.65	22.71	22.74	
10	16QAM	1	0	22.87	22.90	23.04	24
10	16QAM	1	25	22.72	22.71	22.74	
10	16QAM	1	49	22.67	22.64	22.59	
10	16QAM	25	0	21.89	21.85	21.94	23
10	16QAM	25	12	21.73	21.72	21.79	
10	16QAM	25	25	21.83	21.56	21.66	
10	16QAM	50	0	21.80	21.81	21.70	
10	64QAM	1	0	21.51	21.38	21.50	23
10	64QAM	1	25	21.42	21.29	21.41	
10	64QAM	1	49	21.23	21.26	21.34	
10	64QAM	25	0	20.76	20.67	20.90	22
10	64QAM	25	12	20.83	20.60	20.79	
10	64QAM	25	25	20.64	20.68	20.60	
10	64QAM	50	0	20.80	20.61	20.73	
10	256QAM	1	0	18.80	18.88	18.72	20
10	256QAM	1	25	18.88	18.75	18.60	
10	256QAM	1	49	18.63	18.53	18.55	
10	256QAM	25	0	18.74	18.97	18.91	20
10	256QAM	25	12	18.77	18.83	18.70	
10	256QAM	25	25	18.96	18.85	18.75	
10	256QAM	50	0	18.85	18.94	18.86	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	23.32	23.23	23.17	24.1
5	QPSK	1	12	23.04	23.13	23.11	
5	QPSK	1	24	23.03	22.95	22.99	
5	QPSK	12	0	22.76	22.69	22.88	24
5	QPSK	12	7	22.83	22.57	22.70	
5	QPSK	12	13	22.76	22.69	22.76	
5	QPSK	25	0	22.76	22.63	22.68	
5	16QAM	1	0	22.92	22.82	22.96	24
5	16QAM	1	12	22.83	22.61	22.84	
5	16QAM	1	24	22.64	22.70	22.64	
5	16QAM	12	0	21.73	21.73	21.79	23
5	16QAM	12	7	21.87	21.74	21.74	
5	16QAM	12	13	21.82	21.66	21.76	
5	16QAM	25	0	21.78	21.65	21.80	
5	64QAM	1	0	21.56	21.45	21.57	23
5	64QAM	1	12	21.53	21.32	21.37	
5	64QAM	1	24	21.30	21.11	21.39	
5	64QAM	12	0	20.81	20.74	20.86	22
5	64QAM	12	7	20.72	20.55	20.78	
5	64QAM	12	13	20.62	20.64	20.65	
5	64QAM	25	0	20.74	20.60	20.70	
5	256QAM	1	0	18.69	18.96	18.76	20
5	256QAM	1	12	18.86	18.80	18.56	
5	256QAM	1	24	18.68	18.71	18.65	
5	256QAM	12	0	18.74	18.93	18.94	20
5	256QAM	12	7	18.91	18.78	18.73	
5	256QAM	12	13	18.98	18.86	18.85	
5	256QAM	25	0	18.86	18.84	18.95	



<LTE Band 38_Ant 5_Index 11>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	24.01	23.94	24.11	
20	QPSK	1	49	23.90	23.95	24.10	25
20	QPSK	1	99	23.86	23.82	24.00	
20	QPSK	50	0	22.96	22.95	23.04	
20	QPSK	50	24	22.94	22.91	23.01	24
20	QPSK	50	50	22.91	22.87	22.97	
20	QPSK	100	0	22.90	22.91	23.02	
20	16QAM	1	0	23.05	23.06	23.20	24
20	16QAM	1	49	22.97	22.96	23.09	
20	16QAM	1	99	22.90	22.91	23.01	
20	16QAM	50	0	21.96	21.93	22.09	23
20	16QAM	50	24	21.94	21.95	22.06	
20	16QAM	50	50	21.93	21.89	21.99	
20	16QAM	100	0	21.94	21.93	22.03	23
20	64QAM	1	0	21.64	21.59	21.75	
20	64QAM	1	49	21.62	21.58	21.76	
20	64QAM	1	99	21.49	21.45	21.60	22
20	64QAM	50	0	20.93	20.88	21.05	
20	64QAM	50	24	20.88	20.87	20.99	
20	64QAM	50	50	20.87	20.84	20.97	20
20	64QAM	100	0	20.92	20.87	21.02	
20	256QAM	1	0	18.75	18.73	18.84	
20	256QAM	1	49	18.47	18.51	18.67	20
20	256QAM	1	99	18.41	18.51	18.65	
20	256QAM	50	0	18.79	18.81	18.93	20
20	256QAM	50	24	18.83	18.82	18.99	
20	256QAM	50	50	18.80	18.67	18.84	
20	256QAM	100	0	18.77	18.83	18.69	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	23.91	23.85	23.99	
15	QPSK	1	37	23.82	23.75	24.07	25
15	QPSK	1	74	23.85	23.80	24.00	
15	QPSK	36	0	22.82	22.86	22.91	24
15	QPSK	36	20	22.85	22.82	22.86	
15	QPSK	36	39	22.72	22.68	22.93	
15	QPSK	75	0	22.86	22.86	23.02	24
15	16QAM	1	0	22.94	22.97	23.15	
15	16QAM	1	37	22.87	22.84	22.91	
15	16QAM	1	74	22.84	22.78	22.83	23
15	16QAM	36	0	21.88	21.74	21.97	
15	16QAM	36	20	21.77	21.93	22.04	
15	16QAM	36	39	21.90	21.86	21.81	23
15	16QAM	75	0	21.79	21.89	21.95	
15	64QAM	1	0	21.56	21.43	21.56	
15	64QAM	1	37	21.51	21.55	21.73	22
15	64QAM	1	74	21.41	21.29	21.57	
15	64QAM	36	0	20.92	20.70	20.92	
15	64QAM	36	20	20.69	20.77	20.95	20
15	64QAM	36	39	20.74	20.74	20.78	
15	64QAM	75	0	20.78	20.76	20.88	
15	256QAM	1	0	18.67	18.73	18.68	20
15	256QAM	1	37	18.30	18.44	18.58	
15	256QAM	1	74	18.25	18.46	18.54	
15	256QAM	36	0	18.71	18.76	18.81	20
15	256QAM	36	20	18.65	18.81	18.83	
15	256QAM	36	39	18.80	18.55	18.72	



FCC SAR TEST REPORT

Report No. : FA4N0920C

15	256QAM	75	0	18.69	18.69	18.69	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	24.00	23.74	23.98	25
10	QPSK	1	25	23.88	23.90	24.07	
10	QPSK	1	49	23.85	23.82	23.88	
10	QPSK	25	0	22.79	22.84	23.04	24
10	QPSK	25	12	22.74	22.82	22.98	
10	QPSK	25	25	22.78	22.78	22.83	
10	QPSK	50	0	22.81	22.71	23.01	24
10	16QAM	1	0	22.88	23.05	23.06	
10	16QAM	1	25	22.91	22.82	22.94	
10	16QAM	1	49	22.83	22.83	22.84	23
10	16QAM	25	0	21.89	21.74	21.98	
10	16QAM	25	12	21.76	21.92	21.91	
10	16QAM	25	25	21.91	21.81	21.92	23
10	16QAM	50	0	21.75	21.83	22.00	
10	64QAM	1	0	21.46	21.43	21.66	
10	64QAM	1	25	21.55	21.57	21.65	23
10	64QAM	1	49	21.32	21.43	21.56	
10	64QAM	25	0	20.92	20.74	20.98	
10	64QAM	25	12	20.70	20.71	20.88	22
10	64QAM	25	25	20.69	20.82	20.96	
10	64QAM	50	0	20.81	20.83	20.88	
10	256QAM	1	0	18.71	18.70	18.68	20
10	256QAM	1	25	18.42	18.45	18.49	
10	256QAM	1	49	18.24	18.39	18.55	
10	256QAM	25	0	18.79	18.65	18.89	20
10	256QAM	25	12	18.68	18.71	18.93	
10	256QAM	25	25	18.65	18.56	18.81	
10	256QAM	50	0	18.63	18.69	18.64	Tune-up limit (dBm)
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	24.01	23.92	23.92	25
5	QPSK	1	12	23.79	23.78	24.08	
5	QPSK	1	24	23.80	23.66	23.98	
5	QPSK	12	0	22.91	22.82	23.00	24
5	QPSK	12	7	22.87	22.71	22.96	
5	QPSK	12	13	22.81	22.67	22.78	
5	QPSK	25	0	22.82	22.87	22.92	24
5	16QAM	1	0	22.97	23.00	23.11	
5	16QAM	1	12	22.96	22.92	22.97	
5	16QAM	1	24	22.86	22.87	22.89	23
5	16QAM	12	0	21.82	21.74	22.02	
5	16QAM	12	7	21.86	21.86	22.03	
5	16QAM	12	13	21.73	21.73	21.81	23
5	16QAM	25	0	21.86	21.82	22.03	
5	64QAM	1	0	21.44	21.44	21.62	
5	64QAM	1	12	21.58	21.53	21.68	23
5	64QAM	1	24	21.34	21.35	21.58	
5	64QAM	12	0	20.79	20.82	20.94	
5	64QAM	12	7	20.86	20.77	20.89	22
5	64QAM	12	13	20.67	20.74	20.95	
5	64QAM	25	0	20.75	20.83	20.90	
5	256QAM	1	0	18.65	18.58	18.65	20
5	256QAM	1	12	18.32	18.31	18.61	
5	256QAM	1	24	18.40	18.46	18.52	
5	256QAM	12	0	18.69	18.78	18.89	20
5	256QAM	12	7	18.63	18.78	18.88	
5	256QAM	12	13	18.76	18.55	18.68	
5	256QAM	25	0	18.61	18.81	18.65	



<LTE Band 38_HPUE_Ant 2_Index 11>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	21.22	21.17	21.26	
20	QPSK	1	49	21.08	21.04	21.14	21.6
20	QPSK	1	99	21.04	21.01	21.12	
20	QPSK	50	0	21.23	21.18	21.25	
20	QPSK	50	24	21.20	21.13	21.19	21.6
20	QPSK	50	50	21.13	21.08	21.15	
20	QPSK	100	0	21.17	21.13	21.21	
20	16QAM	1	0	21.19	21.12	21.19	21.6
20	16QAM	1	49	21.06	21.01	21.08	
20	16QAM	1	99	20.99	20.97	21.06	
20	16QAM	50	0	21.19	21.25	21.00	21.6
20	16QAM	50	24	21.16	21.18	21.24	
20	16QAM	50	50	21.19	21.14	21.21	
20	16QAM	100	0	21.23	21.17	21.25	21.6
20	64QAM	1	0	20.93	20.86	20.97	
20	64QAM	1	49	21.18	21.10	21.22	
20	64QAM	1	99	21.14	21.12	21.19	21.6
20	64QAM	50	0	21.24	21.19	21.24	
20	64QAM	50	24	21.20	21.13	21.21	
20	64QAM	50	50	21.15	21.11	21.20	21.6
20	64QAM	100	0	21.20	21.16	21.25	
20	256QAM	1	0	21.10	20.94	20.99	
20	256QAM	1	49	20.97	20.93	20.82	21.6
20	256QAM	1	99	20.93	20.89	20.85	
20	256QAM	50	0	21.01	21.01	21.06	
20	256QAM	50	24	21.01	20.96	21.16	21.6
20	256QAM	50	50	20.91	20.84	20.85	
20	256QAM	100	0	20.88	20.90	20.98	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	21.11	21.09	21.08	
15	QPSK	1	37	21.07	20.94	21.12	21.6
15	QPSK	1	74	21.01	20.81	20.92	
15	QPSK	36	0	21.22	21.12	21.10	
15	QPSK	36	20	21.01	20.96	21.00	21.6
15	QPSK	36	39	21.02	21.05	21.03	
15	QPSK	75	0	21.16	20.96	21.21	
15	16QAM	1	0	21.16	20.94	21.03	21.6
15	16QAM	1	37	20.87	20.83	20.89	
15	16QAM	1	74	20.79	20.80	20.97	
15	16QAM	36	0	21.19	21.07	20.86	21.6
15	16QAM	36	20	21.14	21.18	21.11	
15	16QAM	36	39	21.01	21.09	21.14	
15	16QAM	75	0	21.23	21.00	21.18	21.6
15	64QAM	1	0	20.73	20.74	20.82	
15	64QAM	1	37	21.11	20.95	21.12	
15	64QAM	1	74	20.96	21.00	21.09	21.6
15	64QAM	36	0	21.13	21.05	21.17	
15	64QAM	36	20	21.16	20.97	21.15	
15	64QAM	36	39	21.14	21.09	21.01	21.6
15	64QAM	75	0	21.17	20.96	21.20	
15	256QAM	1	0	20.97	20.83	20.98	
15	256QAM	1	37	20.82	20.93	20.73	21.6
15	256QAM	1	74	20.76	20.72	20.80	
15	256QAM	36	0	20.91	21.00	20.98	
15	256QAM	36	20	20.95	20.91	21.11	21.6
15	256QAM	36	39	20.77	20.78	20.72	



FCC SAR TEST REPORT

Report No. : FA4N0920C

15	256QAM	75	0	20.80	20.76	20.80	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	21.17	21.00	21.16	21.6
10	QPSK	1	25	21.02	21.03	20.95	
10	QPSK	1	49	21.03	20.82	20.97	
10	QPSK	25	0	21.13	21.02	21.25	21.6
10	QPSK	25	12	21.18	21.00	21.01	
10	QPSK	25	25	20.99	21.05	21.07	
10	QPSK	50	0	21.00	21.12	21.12	21.6
10	16QAM	1	0	20.99	21.00	21.11	
10	16QAM	1	25	20.97	21.00	21.03	
10	16QAM	1	49	20.88	20.93	20.86	21.6
10	16QAM	25	0	21.09	21.19	20.93	
10	16QAM	25	12	20.96	21.14	21.23	
10	16QAM	25	25	21.06	21.05	21.19	21.6
10	16QAM	50	0	21.22	21.11	21.09	
10	64QAM	1	0	20.74	20.71	20.94	
10	64QAM	1	25	21.11	21.08	21.04	21.6
10	64QAM	1	49	20.98	21.10	21.10	
10	64QAM	25	0	21.20	21.06	21.13	
10	64QAM	25	12	21.11	21.03	21.21	21.6
10	64QAM	25	25	21.10	21.00	21.07	
10	64QAM	50	0	21.00	20.96	21.18	
10	256QAM	1	0	20.99	20.81	20.85	21.6
10	256QAM	1	25	20.92	20.75	20.73	
10	256QAM	1	49	20.81	20.87	20.71	
10	256QAM	25	0	20.91	20.88	20.97	21.6
10	256QAM	25	12	21.00	20.95	20.99	
10	256QAM	25	25	20.84	20.72	20.70	
10	256QAM	50	0	20.76	20.86	20.96	Tune-up limit (dBm)
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	21.21	21.08	21.23	21.6
5	QPSK	1	12	20.90	20.97	20.97	
5	QPSK	1	24	20.89	20.81	20.94	
5	QPSK	12	0	21.21	21.10	21.11	21.6
5	QPSK	12	7	21.09	20.97	21.15	
5	QPSK	12	13	20.97	20.99	20.99	
5	QPSK	25	0	21.12	20.95	21.02	21.6
5	16QAM	1	0	21.13	21.06	21.07	
5	16QAM	1	12	20.93	20.91	20.92	
5	16QAM	1	24	20.85	20.80	21.01	21.6
5	16QAM	12	0	21.07	21.14	20.82	
5	16QAM	12	7	21.11	21.13	21.07	
5	16QAM	12	13	21.04	21.01	21.21	21.6
5	16QAM	25	0	21.05	21.06	21.05	
5	64QAM	1	0	20.76	20.83	20.88	
5	64QAM	1	12	20.99	21.03	21.18	21.6
5	64QAM	1	24	20.96	21.08	21.09	
5	64QAM	12	0	21.23	21.13	21.10	
5	64QAM	12	7	21.06	21.07	21.12	21.6
5	64QAM	12	13	21.05	21.10	21.18	
5	64QAM	25	0	21.04	21.13	21.10	
5	256QAM	1	0	20.95	20.85	20.97	21.6
5	256QAM	1	12	20.97	20.73	20.65	
5	256QAM	1	24	20.77	20.69	20.80	
5	256QAM	12	0	20.98	20.84	21.03	21.6
5	256QAM	12	7	20.88	20.89	21.12	
5	256QAM	12	13	20.88	20.70	20.85	
5	256QAM	25	0	20.76	20.86	20.96	



<LTE Band 38_HPUE_Ant 1_Index 11>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	25.47	25.61	25.67	
20	QPSK	1	49	25.40	25.49	25.48	26
20	QPSK	1	99	25.43	25.44	25.44	
20	QPSK	50	0	24.99	25.13	25.15	
20	QPSK	50	24	24.98	25.05	25.28	25.9
20	QPSK	50	50	24.87	25.10	25.15	
20	QPSK	100	0	24.92	25.04	25.15	
20	16QAM	1	0	25.34	25.58	25.56	25.9
20	16QAM	1	49	25.18	25.31	25.27	
20	16QAM	1	99	25.32	25.29	25.36	
20	16QAM	50	0	24.10	24.25	24.35	24.9
20	16QAM	50	24	24.13	24.19	24.32	
20	16QAM	50	50	23.91	24.13	24.29	
20	16QAM	100	0	23.94	24.17	24.30	24.9
20	64QAM	1	0	23.97	24.18	24.28	
20	64QAM	1	49	23.93	24.10	24.05	
20	64QAM	1	99	23.96	24.10	24.09	23.9
20	64QAM	50	0	22.91	23.20	23.13	
20	64QAM	50	24	22.95	23.13	23.05	
20	64QAM	50	50	22.91	22.98	23.06	21.9
20	64QAM	100	0	22.94	23.01	23.15	
20	256QAM	1	0	21.02	21.17	21.31	
20	256QAM	1	49	20.82	21.05	21.07	21.9
20	256QAM	1	99	20.79	21.09	20.95	
20	256QAM	50	0	20.99	21.17	21.23	
20	256QAM	50	24	20.80	21.25	21.26	21.9
20	256QAM	50	50	20.80	21.01	21.16	
20	256QAM	100	0	20.88	21.13	21.16	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	25.40	25.59	25.56	
15	QPSK	1	37	25.37	25.34	25.32	26
15	QPSK	1	74	25.39	25.42	25.33	
15	QPSK	36	0	24.94	25.02	25.16	
15	QPSK	36	20	24.93	24.93	24.96	25.9
15	QPSK	36	39	24.88	24.82	25.05	
15	QPSK	75	0	24.89	25.09	25.12	
15	16QAM	1	0	25.19	25.23	25.45	25.9
15	16QAM	1	37	25.27	25.18	25.24	
15	16QAM	1	74	25.21	25.35	25.04	
15	16QAM	36	0	23.94	23.98	24.15	24.9
15	16QAM	36	20	23.78	23.93	24.13	
15	16QAM	36	39	23.89	23.96	24.17	
15	16QAM	75	0	23.93	24.09	24.17	24.9
15	64QAM	1	0	23.97	24.25	24.24	
15	64QAM	1	37	23.82	24.00	24.04	
15	64QAM	1	74	23.87	23.99	23.83	23.9
15	64QAM	36	0	22.70	23.02	23.02	
15	64QAM	36	20	22.89	23.12	23.13	
15	64QAM	36	39	22.78	22.79	23.04	21.9
15	64QAM	75	0	22.90	22.94	23.05	
15	256QAM	1	0	21.04	21.03	21.02	
15	256QAM	1	37	20.74	20.93	20.99	21.9
15	256QAM	1	74	20.59	20.83	20.99	
15	256QAM	36	0	21.04	21.17	20.96	
15	256QAM	36	20	20.79	20.95	20.99	21.9
15	256QAM	36	39	20.86	20.87	21.18	



FCC SAR TEST REPORT

Report No. : FA4N0920C

15	256QAM	75	0	20.76	20.86	21.09	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	25.29	25.61	25.55	26
10	QPSK	1	25	25.25	25.30	25.42	
10	QPSK	1	49	25.27	25.24	25.31	
10	QPSK	25	0	25.01	25.14	25.21	25.9
10	QPSK	25	12	24.92	25.10	24.90	
10	QPSK	25	25	24.77	24.97	25.15	
10	QPSK	50	0	24.90	25.09	24.95	25.9
10	16QAM	1	0	25.20	25.36	25.53	
10	16QAM	1	25	25.16	25.35	25.05	
10	16QAM	1	49	25.14	25.21	25.33	24.9
10	16QAM	25	0	23.89	24.16	24.12	
10	16QAM	25	12	23.98	24.18	24.21	
10	16QAM	25	25	23.82	24.06	24.04	24.9
10	16QAM	50	0	23.97	24.01	23.97	
10	64QAM	1	0	23.81	24.01	24.16	
10	64QAM	1	25	23.91	23.83	24.08	24.9
10	64QAM	1	49	23.91	23.96	24.07	
10	64QAM	25	0	22.89	22.88	23.24	
10	64QAM	25	12	22.76	22.93	23.09	23.9
10	64QAM	25	25	22.91	22.92	23.01	
10	64QAM	50	0	22.84	23.09	23.18	
10	256QAM	1	0	20.80	20.95	21.25	21.9
10	256QAM	1	25	20.77	20.88	20.99	
10	256QAM	1	49	20.77	20.84	21.00	
10	256QAM	25	0	20.84	21.21	21.18	21.9
10	256QAM	25	12	20.85	21.07	21.11	
10	256QAM	25	25	20.84	21.04	21.01	
10	256QAM	50	0	20.75	20.97	21.04	Tune-up limit (dBm)
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	25.35	25.60	25.61	26
5	QPSK	1	12	25.37	25.48	25.46	
5	QPSK	1	24	25.37	25.41	25.25	
5	QPSK	12	0	24.84	24.93	25.18	25.9
5	QPSK	12	7	25.05	24.91	24.97	
5	QPSK	12	13	24.67	24.79	25.09	
5	QPSK	25	0	24.93	24.87	25.08	25.9
5	16QAM	1	0	25.19	25.34	25.30	
5	16QAM	1	12	25.26	25.32	25.39	
5	16QAM	1	24	25.21	25.23	25.21	24.9
5	16QAM	12	0	23.91	23.98	24.28	
5	16QAM	12	7	23.77	23.93	23.98	
5	16QAM	12	13	23.86	23.93	24.06	24.9
5	16QAM	25	0	23.99	24.03	24.10	
5	64QAM	1	0	24.01	24.14	24.37	
5	64QAM	1	12	23.92	23.94	24.04	24.9
5	64QAM	1	24	23.91	23.87	23.99	
5	64QAM	12	0	22.87	22.85	23.04	
5	64QAM	12	7	22.80	22.85	23.17	23.9
5	64QAM	12	13	22.98	22.90	23.00	
5	64QAM	25	0	22.89	23.05	23.04	
5	256QAM	1	0	20.85	20.97	21.14	21.9
5	256QAM	1	12	20.70	20.82	21.16	
5	256QAM	1	24	20.63	20.85	20.78	
5	256QAM	12	0	20.94	21.11	21.05	21.9
5	256QAM	12	7	20.87	20.97	21.06	
5	256QAM	12	13	20.79	21.02	21.00	
5	256QAM	25	0	20.68	21.07	21.03	



<LTE Band 38_HPUE_Ant 0_Index 11>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	25.29	25.30	25.40	
20	QPSK	1	49	25.24	25.17	25.23	25.7
20	QPSK	1	99	25.19	25.05	25.08	
20	QPSK	50	0	25.36	25.31	25.38	
20	QPSK	50	24	25.32	25.28	25.34	25.7
20	QPSK	50	50	25.28	25.19	25.30	
20	QPSK	100	0	25.30	25.25	25.32	
20	16QAM	1	0	25.06	25.06	25.14	25.7
20	16QAM	1	49	25.02	24.96	25.02	
20	16QAM	1	99	24.92	24.83	24.83	
20	16QAM	50	0	23.87	23.84	23.92	24.9
20	16QAM	50	24	23.84	23.78	23.85	
20	16QAM	50	50	23.81	23.73	23.77	
20	16QAM	100	0	23.84	23.80	23.83	24.9
20	64QAM	1	0	23.86	23.86	23.91	
20	64QAM	1	49	23.84	23.79	23.78	
20	64QAM	1	99	23.76	23.64	23.65	23.9
20	64QAM	50	0	22.84	22.77	22.85	
20	64QAM	50	24	22.79	22.76	22.81	
20	64QAM	50	50	22.78	22.68	22.73	21.9
20	64QAM	100	0	22.79	22.74	22.81	
20	256QAM	1	0	21.10	21.20	20.93	
20	256QAM	1	49	20.79	20.75	20.77	21.9
20	256QAM	1	99	20.60	20.75	20.76	
20	256QAM	50	0	21.07	20.98	21.06	
20	256QAM	50	24	20.91	21.15	20.85	21.9
20	256QAM	50	50	20.78	21.05	20.91	
20	256QAM	100	0	20.97	21.10	20.71	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	25.26	25.21	25.28	
15	QPSK	1	37	25.07	24.98	25.03	25.7
15	QPSK	1	74	25.13	24.91	24.98	
15	QPSK	36	0	25.34	25.29	25.36	25.7
15	QPSK	36	20	25.30	25.12	25.17	
15	QPSK	36	39	25.27	25.09	25.18	
15	QPSK	75	0	25.30	25.09	25.28	25.7
15	16QAM	1	0	24.86	24.96	24.96	
15	16QAM	1	37	24.94	24.78	24.82	
15	16QAM	1	74	24.91	24.78	24.81	24.9
15	16QAM	36	0	23.70	23.75	23.84	
15	16QAM	36	20	23.83	23.77	23.65	
15	16QAM	36	39	23.67	23.67	23.64	24.9
15	16QAM	75	0	23.72	23.70	23.64	
15	64QAM	1	0	23.71	23.83	23.74	
15	64QAM	1	37	23.83	23.77	23.62	23.9
15	64QAM	1	74	23.56	23.52	23.46	
15	64QAM	36	0	22.64	22.77	22.76	
15	64QAM	36	20	22.71	22.72	22.73	21.9
15	64QAM	36	39	22.61	22.68	22.69	
15	64QAM	75	0	22.61	22.70	22.70	
15	256QAM	1	0	20.99	21.09	20.90	21.9
15	256QAM	1	37	20.60	20.59	20.66	
15	256QAM	1	74	20.49	20.55	20.58	
15	256QAM	36	0	21.04	20.83	20.92	21.9
15	256QAM	36	20	20.75	21.10	20.68	
15	256QAM	36	39	20.58	21.02	20.82	



FCC SAR TEST REPORT

Report No. : FA4N0920C

15	256QAM	75	0	20.83	20.96	20.56	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	25.26	25.17	25.39	25.7
10	QPSK	1	25	25.23	24.98	25.17	
10	QPSK	1	49	25.02	24.97	24.92	
10	QPSK	25	0	25.19	25.22	25.26	25.7
10	QPSK	25	12	25.15	25.24	25.31	
10	QPSK	25	25	25.14	25.11	25.22	
10	QPSK	50	0	25.30	25.08	25.25	25.7
10	16QAM	1	0	24.87	25.00	25.12	
10	16QAM	1	25	24.89	24.81	24.82	
10	16QAM	1	49	24.92	24.77	24.65	24.9
10	16QAM	25	0	23.76	23.69	23.84	
10	16QAM	25	12	23.74	23.61	23.83	
10	16QAM	25	25	23.61	23.70	23.63	24.9
10	16QAM	50	0	23.76	23.67	23.73	
10	64QAM	1	0	23.75	23.68	23.75	
10	64QAM	1	25	23.83	23.62	23.62	24.9
10	64QAM	1	49	23.71	23.46	23.49	
10	64QAM	25	0	22.77	22.63	22.67	23.9
10	64QAM	25	12	22.59	22.76	22.71	
10	64QAM	25	25	22.75	22.51	22.71	
10	64QAM	50	0	22.77	22.56	22.74	21.9
10	256QAM	1	0	21.09	21.13	20.74	
10	256QAM	1	25	20.62	20.60	20.75	
10	256QAM	1	49	20.52	20.75	20.76	21.9
10	256QAM	25	0	21.02	20.79	20.96	
10	256QAM	25	12	20.86	21.00	20.66	
10	256QAM	25	25	20.74	20.97	20.77	21.9
10	256QAM	50	0	20.89	20.92	20.65	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	25.09	25.10	25.39	
5	QPSK	1	12	25.23	24.97	25.21	25.7
5	QPSK	1	24	25.10	25.02	25.05	
5	QPSK	12	0	25.27	25.13	25.38	25.7
5	QPSK	12	7	25.20	25.25	25.20	
5	QPSK	12	13	25.12	25.15	25.27	
5	QPSK	25	0	25.16	25.16	25.21	25.7
5	16QAM	1	0	25.04	25.02	24.95	
5	16QAM	1	12	24.94	24.77	24.92	
5	16QAM	1	24	24.88	24.82	24.70	24.9
5	16QAM	12	0	23.74	23.81	23.74	
5	16QAM	12	7	23.82	23.76	23.81	
5	16QAM	12	13	23.64	23.53	23.59	24.9
5	16QAM	25	0	23.84	23.74	23.65	
5	64QAM	1	0	23.72	23.68	23.72	
5	64QAM	1	12	23.68	23.79	23.61	24.9
5	64QAM	1	24	23.64	23.46	23.59	
5	64QAM	12	0	22.84	22.70	22.79	
5	64QAM	12	7	22.63	22.61	22.70	23.9
5	64QAM	12	13	22.65	22.50	22.59	
5	64QAM	25	0	22.78	22.60	22.65	
5	256QAM	1	0	20.90	21.02	20.80	21.9
5	256QAM	1	12	20.65	20.68	20.59	
5	256QAM	1	24	20.42	20.71	20.58	
5	256QAM	12	0	20.98	20.83	21.02	21.9
5	256QAM	12	7	20.80	21.08	20.71	
5	256QAM	12	13	20.70	20.89	20.85	
5	256QAM	25	0	20.89	21.07	20.56	



<LTE Band 38_HPUE_Ant 5_Index 11>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	25.88	25.91	26.01	
20	QPSK	1	49	25.82	25.81	25.87	26.9
20	QPSK	1	99	25.79	25.71	25.74	
20	QPSK	50	0	24.90	24.89	25.04	
20	QPSK	50	24	24.87	24.85	25.00	25.9
20	QPSK	50	50	24.83	24.82	24.96	
20	QPSK	100	0	24.84	24.85	24.98	
20	16QAM	1	0	25.16	25.16	25.26	25.9
20	16QAM	1	49	25.11	25.09	25.17	
20	16QAM	1	99	25.03	24.98	25.00	
20	16QAM	50	0	23.92	23.91	24.05	24.9
20	16QAM	50	24	23.93	23.91	24.04	
20	16QAM	50	50	23.89	23.84	24.07	
20	16QAM	100	0	23.91	23.87	24.02	24.9
20	64QAM	1	0	23.94	23.91	24.06	
20	64QAM	1	49	23.88	23.85	23.96	
20	64QAM	1	99	23.82	23.76	23.87	23.9
20	64QAM	50	0	22.88	23.03	23.12	
20	64QAM	50	24	22.85	22.86	23.01	
20	64QAM	50	50	22.83	22.76	22.94	21.9
20	64QAM	100	0	22.87	22.84	22.89	
20	256QAM	1	0	20.71	20.74	20.97	
20	256QAM	1	49	20.78	20.87	20.85	21.9
20	256QAM	1	99	20.40	20.54	20.62	
20	256QAM	50	0	20.71	20.72	20.91	
20	256QAM	50	24	20.61	20.77	20.91	21.9
20	256QAM	50	50	20.78	20.76	20.92	
20	256QAM	100	0	20.81	20.73	20.72	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	25.74	25.89	25.93	
15	QPSK	1	37	25.67	25.65	25.83	26.9
15	QPSK	1	74	25.78	25.52	25.67	
15	QPSK	36	0	24.90	24.82	24.98	
15	QPSK	36	20	24.69	24.81	24.83	25.9
15	QPSK	36	39	24.78	24.79	24.96	
15	QPSK	75	0	24.65	24.81	24.88	
15	16QAM	1	0	25.02	25.12	25.14	25.9
15	16QAM	1	37	24.97	24.97	25.16	
15	16QAM	1	74	24.83	24.79	24.96	
15	16QAM	36	0	23.75	23.84	23.94	24.9
15	16QAM	36	20	23.93	23.87	23.87	
15	16QAM	36	39	23.71	23.78	24.05	
15	16QAM	75	0	23.85	23.73	23.94	24.9
15	64QAM	1	0	23.86	23.81	23.99	
15	64QAM	1	37	23.68	23.82	23.76	
15	64QAM	1	74	23.72	23.70	23.83	23.9
15	64QAM	36	0	22.79	22.86	23.06	
15	64QAM	36	20	22.73	22.72	22.97	
15	64QAM	36	39	22.74	22.58	22.76	21.9
15	64QAM	75	0	22.73	22.66	22.69	
15	256QAM	1	0	20.69	20.74	20.82	
15	256QAM	1	37	20.67	20.70	20.70	21.9
15	256QAM	1	74	20.20	20.47	20.46	
15	256QAM	36	0	20.65	20.72	20.85	
15	256QAM	36	20	20.61	20.60	20.86	21.9
15	256QAM	36	39	20.58	20.75	20.90	



FCC SAR TEST REPORT

Report No. : FA4N0920C

15	256QAM	75	0	20.69	20.58	20.69	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	25.86	25.82	25.99	26.9
10	QPSK	1	25	25.72	25.69	25.72	
10	QPSK	1	49	25.59	25.59	25.61	
10	QPSK	25	0	24.76	24.76	25.00	25.9
10	QPSK	25	12	24.76	24.83	24.98	
10	QPSK	25	25	24.76	24.66	24.87	
10	QPSK	50	0	24.80	24.82	24.82	
10	16QAM	1	0	25.13	25.05	25.12	25.9
10	16QAM	1	25	24.99	25.01	25.13	
10	16QAM	1	49	24.99	24.84	24.80	
10	16QAM	25	0	23.82	23.73	24.01	24.9
10	16QAM	25	12	23.89	23.81	23.85	
10	16QAM	25	25	23.81	23.67	23.87	
10	16QAM	50	0	23.90	23.68	24.00	
10	64QAM	1	0	23.76	23.72	23.87	24.9
10	64QAM	1	25	23.87	23.72	23.96	
10	64QAM	1	49	23.62	23.76	23.82	
10	64QAM	25	0	22.88	22.83	23.10	23.9
10	64QAM	25	12	22.75	22.66	22.99	
10	64QAM	25	25	22.79	22.61	22.89	
10	64QAM	50	0	22.69	22.80	22.70	
10	256QAM	1	0	20.51	20.65	20.78	21.9
10	256QAM	1	25	20.64	20.72	20.67	
10	256QAM	1	49	20.25	20.38	20.50	
10	256QAM	25	0	20.67	20.56	20.73	21.9
10	256QAM	25	12	20.43	20.58	20.87	
10	256QAM	25	25	20.66	20.67	20.85	
10	256QAM	50	0	20.76	20.58	20.70	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	25.70	25.81	25.88	26.9
5	QPSK	1	12	25.62	25.69	25.81	
5	QPSK	1	24	25.60	25.69	25.69	
5	QPSK	12	0	24.85	24.72	24.97	25.9
5	QPSK	12	7	24.71	24.78	24.84	
5	QPSK	12	13	24.76	24.70	24.96	
5	QPSK	25	0	24.69	24.81	24.91	
5	16QAM	1	0	25.15	25.14	25.11	25.9
5	16QAM	1	12	25.05	24.98	25.07	
5	16QAM	1	24	25.02	24.85	24.93	
5	16QAM	12	0	23.74	23.81	23.85	24.9
5	16QAM	12	7	23.83	23.72	23.84	
5	16QAM	12	13	23.77	23.71	23.93	
5	16QAM	25	0	23.73	23.78	23.97	
5	64QAM	1	0	23.84	23.88	23.94	24.9
5	64QAM	1	12	23.70	23.66	23.84	
5	64QAM	1	24	23.77	23.73	23.68	
5	64QAM	12	0	22.79	22.91	22.93	23.9
5	64QAM	12	7	22.82	22.67	22.93	
5	64QAM	12	13	22.71	22.74	22.83	
5	64QAM	25	0	22.67	22.81	22.88	
5	256QAM	1	0	20.58	20.74	20.89	21.9
5	256QAM	1	12	20.65	20.70	20.83	
5	256QAM	1	24	20.32	20.41	20.60	
5	256QAM	12	0	20.60	20.68	20.79	21.9
5	256QAM	12	7	20.48	20.77	20.71	
5	256QAM	12	13	20.71	20.66	20.87	
5	256QAM	25	0	20.64	20.72	20.61	



<LTE Band 41_Ant 2_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.10	24.25	24.21	24.35	24.39	25
20	QPSK	1	49	24.10	24.24	24.18	24.33	24.38	
20	QPSK	1	99	24.02	24.16	24.05	24.30	24.34	
20	QPSK	50	0	23.11	23.23	23.20	23.33	23.45	24
20	QPSK	50	24	23.11	23.22	23.18	23.32	23.34	
20	QPSK	50	50	23.10	23.21	23.15	23.30	23.31	
20	QPSK	100	0	23.13	23.24	23.18	23.34	23.36	
20	16QAM	1	0	23.24	23.40	23.32	23.48	23.51	24
20	16QAM	1	49	23.24	23.40	23.29	23.44	23.51	
20	16QAM	1	99	23.14	23.27	23.16	23.30	23.39	
20	16QAM	50	0	22.14	22.27	22.22	22.36	22.39	23
20	16QAM	50	24	22.12	22.25	22.18	22.33	22.37	
20	16QAM	50	50	22.10	22.24	22.15	22.30	22.35	
20	16QAM	100	0	22.15	22.26	22.21	22.36	22.38	
20	64QAM	1	0	21.81	21.96	21.92	22.07	22.10	23
20	64QAM	1	49	21.79	21.90	21.87	22.03	22.07	
20	64QAM	1	99	21.76	21.89	21.80	21.96	22.00	
20	64QAM	50	0	21.20	21.33	21.26	21.44	21.48	22
20	64QAM	50	24	21.17	21.31	21.23	21.35	21.45	
20	64QAM	50	50	21.15	21.30	21.19	21.38	21.42	
20	64QAM	100	0	21.13	21.20	21.19	21.34	21.38	
20	256QAM	1	0	18.92	19.02	19.03	19.18	19.25	20
20	256QAM	1	49	18.79	18.97	19.00	19.10	19.16	
20	256QAM	1	99	18.67	18.78	18.86	18.99	19.00	
20	256QAM	50	0	19.17	19.28	19.36	19.43	19.50	20
20	256QAM	50	24	19.16	19.23	19.27	19.38	19.48	
20	256QAM	50	50	18.99	19.11	19.19	19.25	19.38	
20	256QAM	100	0	19.02	19.10	19.20	19.31	19.40	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	23.95	24.05	24.06	24.17	24.32	25.00
15	QPSK	1	37	24.07	24.11	24.08	24.20	24.33	
15	QPSK	1	74	23.87	23.98	23.93	24.15	24.30	
15	QPSK	36	0	23.10	23.13	23.03	23.19	23.37	24
15	QPSK	36	20	22.99	23.04	22.98	23.24	23.21	
15	QPSK	36	39	22.96	23.09	23.04	23.18	23.20	
15	QPSK	75	0	22.96	23.08	23.07	23.25	23.17	
15	16QAM	1	0	23.22	23.22	23.17	23.28	23.48	24
15	16QAM	1	37	23.05	23.22	23.20	23.32	23.45	
15	16QAM	1	74	23.09	23.20	23.14	23.13	23.34	
15	16QAM	36	0	22.03	22.09	22.12	22.33	22.26	23
15	16QAM	36	20	22.10	22.15	22.04	22.32	22.20	
15	16QAM	36	39	22.00	22.05	21.95	22.20	22.15	
15	16QAM	75	0	22.11	22.14	22.04	22.32	22.19	
15	64QAM	1	0	21.70	21.84	21.85	22.06	21.92	23
15	64QAM	1	37	21.67	21.79	21.74	22.02	21.95	
15	64QAM	1	74	21.57	21.82	21.80	21.76	21.99	
15	64QAM	36	0	21.07	21.20	21.26	21.32	21.37	22
15	64QAM	36	20	21.08	21.15	21.03	21.23	21.42	
15	64QAM	36	39	21.03	21.29	21.00	21.22	21.34	
15	64QAM	75	0	20.96	21.01	21.11	21.27	21.33	
15	256QAM	1	0	18.86	18.90	18.92	19.05	19.18	20
15	256QAM	1	37	18.62	18.82	18.81	19.07	19.11	
15	256QAM	1	74	18.60	18.71	18.82	18.97	18.92	
15	256QAM	36	0	18.99	19.19	19.26	19.37	19.31	20
15	256QAM	36	20	19.07	19.08	19.09	19.33	19.42	
15	256QAM	36	39	18.89	18.91	19.07	19.15	19.18	



FCC SAR TEST REPORT

Report No. : FA4N0920C

15	256QAM	75	0	18.83	18.90	19.16	19.28	19.25	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	23.95	24.11	24.10	24.28	24.27	25.00
10	QPSK	1	25	23.94	24.15	24.08	24.23	24.29	
10	QPSK	1	49	23.94	24.03	23.97	24.10	24.15	
10	QPSK	25	0	22.95	23.07	23.04	23.31	23.41	24
10	QPSK	25	12	22.92	23.14	23.03	23.12	23.33	
10	QPSK	25	25	23.05	23.01	22.99	23.20	23.30	
10	QPSK	50	0	23.02	23.14	23.09	23.20	23.29	24
10	16QAM	1	0	23.13	23.30	23.17	23.32	23.47	
10	16QAM	1	25	23.04	23.29	23.25	23.24	23.45	
10	16QAM	1	49	23.08	23.27	23.00	23.24	23.24	23
10	16QAM	25	0	21.95	22.22	22.12	22.23	22.24	
10	16QAM	25	12	22.12	22.17	22.12	22.27	22.17	
10	16QAM	25	25	21.98	22.10	22.14	22.11	22.26	23
10	16QAM	50	0	21.95	22.06	22.01	22.18	22.25	
10	64QAM	1	0	21.68	21.82	21.82	21.87	21.94	
10	64QAM	1	25	21.67	21.72	21.82	21.92	21.90	23
10	64QAM	1	49	21.74	21.89	21.61	21.96	21.91	
10	64QAM	25	0	21.10	21.17	21.22	21.30	21.37	
10	64QAM	25	12	21.09	21.14	21.20	21.21	21.40	22
10	64QAM	25	25	21.00	21.30	21.06	21.34	21.32	
10	64QAM	50	0	21.07	21.19	21.00	21.28	21.22	
10	256QAM	1	0	18.78	18.84	18.88	19.17	19.08	20
10	256QAM	1	25	18.61	18.92	18.86	19.00	19.02	
10	256QAM	1	49	18.55	18.72	18.86	18.98	18.84	
10	256QAM	25	0	19.16	19.27	19.36	19.34	19.42	20
10	256QAM	25	12	19.16	19.03	19.13	19.20	19.42	
10	256QAM	25	25	18.79	18.96	19.14	19.16	19.21	
10	256QAM	50	0	18.98	18.94	19.14	19.30	19.33	Tune-up limit (dBm)
Channel				39675	40148	40620	41093	41565	
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	25.00
5	QPSK	1	0	24.09	24.05	24.18	24.16	24.20	
5	QPSK	1	12	24.01	24.23	24.13	24.18	24.33	
5	QPSK	1	24	23.86	23.98	24.05	24.18	24.16	24
5	QPSK	12	0	23.11	23.19	23.01	23.17	23.36	
5	QPSK	12	7	22.91	23.14	23.03	23.22	23.27	
5	QPSK	12	13	23.07	23.05	22.99	23.22	23.19	24
5	QPSK	25	0	23.11	23.07	23.02	23.22	23.25	
5	16QAM	1	0	23.12	23.34	23.23	23.31	23.49	
5	16QAM	1	12	23.16	23.29	23.21	23.28	23.33	24
5	16QAM	1	24	22.94	23.15	22.99	23.13	23.37	
5	16QAM	12	0	22.08	22.10	22.12	22.34	22.37	
5	16QAM	12	7	21.96	22.10	22.00	22.22	22.24	23
5	16QAM	12	13	21.99	22.23	22.07	22.20	22.16	
5	16QAM	25	0	22.13	22.11	22.16	22.22	22.25	
5	64QAM	1	0	21.75	21.86	21.75	21.87	21.92	23
5	64QAM	1	12	21.63	21.82	21.73	21.98	21.88	
5	64QAM	1	24	21.65	21.85	21.80	21.80	22.00	
5	64QAM	12	0	21.18	21.23	21.07	21.34	21.38	22
5	64QAM	12	7	21.04	21.21	21.06	21.34	21.30	
5	64QAM	12	13	21.05	21.21	21.19	21.32	21.38	
5	64QAM	25	0	21.05	21.13	21.08	21.34	21.28	20
5	256QAM	1	0	18.79	18.93	18.84	19.18	19.21	
5	256QAM	1	12	18.66	18.92	18.84	18.96	19.01	
5	256QAM	1	24	18.55	18.67	18.67	18.82	18.95	20
5	256QAM	12	0	18.97	19.08	19.22	19.26	19.43	
5	256QAM	12	7	19.07	19.18	19.19	19.26	19.29	
5	256QAM	12	13	18.80	19.01	19.19	19.06	19.19	20
5	256QAM	25	0	18.90	19.01	19.07	19.25	19.22	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	22.93	22.81	22.87	23.07	23.06	24.2
20	QPSK	1	49	22.91	22.73	22.83	23.00	23.05	
20	QPSK	1	99	22.90	22.64	22.66	22.81	23.03	
20	QPSK	50	0	22.86	22.65	22.68	23.03	23.01	24
20	QPSK	50	24	22.77	22.61	22.64	22.92	22.98	
20	QPSK	50	50	22.72	22.60	22.64	22.92	22.93	
20	QPSK	100	0	22.74	22.57	22.55	22.96	22.98	
20	16QAM	1	0	22.74	22.68	22.71	23.00	22.92	24
20	16QAM	1	49	22.77	22.80	22.80	23.01	22.98	
20	16QAM	1	99	22.66	22.58	22.61	22.94	22.97	
20	16QAM	50	0	22.53	22.19	22.44	22.63	22.70	23
20	16QAM	50	24	22.46	22.28	22.31	22.55	22.60	
20	16QAM	50	50	22.43	22.28	22.20	22.57	22.68	
20	16QAM	100	0	22.44	22.23	22.32	22.60	22.70	
20	64QAM	1	0	22.13	21.96	22.11	22.32	22.44	23
20	64QAM	1	49	22.23	22.01	22.17	22.32	22.59	
20	64QAM	1	99	21.99	21.83	21.88	22.19	22.22	
20	64QAM	50	0	21.51	21.21	21.39	21.60	21.73	22
20	64QAM	50	24	21.43	21.18	21.34	21.53	21.63	
20	64QAM	50	50	21.42	21.17	21.23	21.55	21.52	
20	64QAM	100	0	21.44	21.24	21.28	21.49	21.56	
20	256QAM	1	0	19.02	18.92	18.96	19.32	19.42	20
20	256QAM	1	49	18.89	18.83	18.92	19.29	19.31	
20	256QAM	1	99	18.86	18.73	18.94	19.12	19.14	
20	256QAM	50	0	19.21	19.19	19.30	19.50	19.59	20
20	256QAM	50	24	19.26	18.94	19.29	19.55	19.44	
20	256QAM	50	50	19.12	19.04	19.21	19.46	19.46	
20	256QAM	100	0	19.28	19.11	19.09	19.51	19.53	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.73	22.57	22.79	22.88	22.99	24.20
15	QPSK	1	37	22.86	22.51	22.78	22.85	22.91	
15	QPSK	1	74	22.79	22.52	22.47	22.75	22.97	
15	QPSK	36	0	22.72	22.46	22.57	22.87	22.81	24
15	QPSK	36	20	22.61	22.52	22.59	22.69	22.90	
15	QPSK	36	39	22.58	22.48	22.52	22.80	22.78	
15	QPSK	75	0	22.49	22.35	22.41	22.83	22.76	
15	16QAM	1	0	22.58	22.52	22.53	22.79	22.73	24
15	16QAM	1	37	22.59	22.62	22.69	22.91	22.83	
15	16QAM	1	74	22.59	22.43	22.39	22.75	22.74	
15	16QAM	36	0	22.45	22.03	22.22	22.50	22.58	23
15	16QAM	36	20	22.34	22.08	22.11	22.33	22.49	
15	16QAM	36	39	22.33	22.23	22.00	22.33	22.57	
15	16QAM	75	0	22.27	22.00	22.08	22.36	22.62	
15	64QAM	1	0	21.91	21.79	21.86	22.09	22.32	23
15	64QAM	1	37	22.11	21.93	22.07	22.26	22.44	
15	64QAM	1	74	21.88	21.69	21.74	22.06	22.15	
15	64QAM	36	0	21.26	21.16	21.31	21.38	21.48	22
15	64QAM	36	20	21.35	21.00	21.24	21.35	21.47	
15	64QAM	36	39	21.33	21.10	21.02	21.32	21.40	
15	64QAM	75	0	21.19	21.15	21.17	21.36	21.46	
15	256QAM	1	0	18.85	18.81	18.90	19.13	19.17	20
15	256QAM	1	37	18.70	18.74	18.80	19.08	19.13	
15	256QAM	1	74	18.77	18.61	18.87	18.93	18.91	
15	256QAM	36	0	19.00	18.99	19.24	19.39	19.49	20
15	256QAM	36	20	19.09	18.82	19.18	19.36	19.25	
15	256QAM	36	39	19.00	18.92	18.96	19.25	19.36	



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15	256QAM	75	0	19.04	19.03	18.98	19.40	19.37	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	22.76	22.72	22.77	22.82	23.00	24.20
10	QPSK	1	25	22.70	22.49	22.69	22.81	22.85	
10	QPSK	1	49	22.83	22.39	22.43	22.67	22.87	
10	QPSK	25	0	22.79	22.47	22.50	22.97	22.76	24
10	QPSK	25	12	22.52	22.43	22.42	22.75	22.93	
10	QPSK	25	25	22.52	22.50	22.51	22.71	22.68	
10	QPSK	50	0	22.64	22.41	22.46	22.78	22.80	
10	16QAM	1	0	22.67	22.58	22.64	22.92	22.80	24
10	16QAM	1	25	22.55	22.61	22.57	22.78	22.81	
10	16QAM	1	49	22.42	22.47	22.56	22.71	22.72	
10	16QAM	25	0	22.36	22.11	22.33	22.51	22.47	23
10	16QAM	25	12	22.34	22.06	22.14	22.41	22.37	
10	16QAM	25	25	22.28	22.13	22.02	22.48	22.60	
10	16QAM	50	0	22.31	22.15	22.26	22.54	22.50	
10	64QAM	1	0	22.08	21.79	21.96	22.09	22.35	23
10	64QAM	1	25	22.07	21.94	21.97	22.16	22.43	
10	64QAM	1	49	21.84	21.75	21.81	22.07	22.05	
10	64QAM	25	0	21.29	21.07	21.26	21.52	21.53	22
10	64QAM	25	12	21.24	21.10	21.14	21.47	21.53	
10	64QAM	25	25	21.20	20.93	21.10	21.39	21.27	
10	64QAM	50	0	21.30	21.19	21.16	21.42	21.38	
10	256QAM	1	0	18.93	18.75	18.83	19.08	19.32	20
10	256QAM	1	25	18.79	18.78	18.81	19.22	19.24	
10	256QAM	1	49	18.74	18.66	18.88	19.01	18.89	
10	256QAM	25	0	19.07	18.94	19.18	19.26	19.50	20
10	256QAM	25	12	19.15	18.86	19.14	19.42	19.33	
10	256QAM	25	25	18.90	18.83	19.16	19.33	19.23	
10	256QAM	50	0	19.15	19.02	18.86	19.40	19.45	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	22.84	22.58	22.78	22.91	22.88	24.20
5	QPSK	1	12	22.69	22.49	22.67	22.87	22.85	
5	QPSK	1	24	22.79	22.58	22.49	22.63	22.83	
5	QPSK	12	0	22.71	22.52	22.44	22.87	22.82	24
5	QPSK	12	7	22.70	22.50	22.55	22.68	22.84	
5	QPSK	12	13	22.55	22.44	22.50	22.83	22.79	
5	QPSK	25	0	22.53	22.33	22.46	22.84	22.80	
5	16QAM	1	0	22.67	22.61	22.56	22.76	22.68	24
5	16QAM	1	12	22.69	22.69	22.64	22.77	22.89	
5	16QAM	1	24	22.61	22.33	22.43	22.89	22.87	
5	16QAM	12	0	22.40	21.95	22.21	22.51	22.59	23
5	16QAM	12	7	22.26	22.20	22.10	22.50	22.50	
5	16QAM	12	13	22.30	22.11	22.13	22.33	22.54	
5	16QAM	25	0	22.33	22.15	22.23	22.50	22.49	
5	64QAM	1	0	22.01	21.82	22.01	22.08	22.31	23
5	64QAM	1	12	22.01	21.90	22.07	22.24	22.39	
5	64QAM	1	24	21.91	21.73	21.81	22.06	22.01	
5	64QAM	12	0	21.43	20.99	21.20	21.50	21.54	22
5	64QAM	12	7	21.26	20.97	21.18	21.41	21.56	
5	64QAM	12	13	21.22	20.98	21.03	21.41	21.31	
5	64QAM	25	0	21.24	21.01	21.05	21.24	21.38	
5	256QAM	1	0	18.85	18.72	18.83	19.20	19.28	20
5	256QAM	1	12	18.70	18.62	18.83	19.07	19.14	
5	256QAM	1	24	18.72	18.68	18.88	19.00	19.01	
5	256QAM	12	0	19.15	18.99	19.09	19.27	19.38	20
5	256QAM	12	7	19.11	18.75	19.12	19.46	19.35	
5	256QAM	12	13	19.05	18.88	19.09	19.35	19.29	
5	256QAM	25	0	19.07	18.91	18.94	19.45	19.32	



<LTE Band 41_Ant 0_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.09	24.22	24.24	24.25	24.55	25
20	QPSK	1	49	23.94	24.31	24.21	23.98	24.54	
20	QPSK	1	99	23.93	24.25	24.03	23.97	24.44	
20	QPSK	50	0	23.08	23.19	23.19	23.18	23.50	24
20	QPSK	50	24	23.03	23.18	23.14	23.10	23.42	
20	QPSK	50	50	23.00	23.18	23.08	23.07	23.44	
20	QPSK	100	0	23.02	23.14	23.18	23.08	23.43	24
20	16QAM	1	0	23.13	23.21	23.34	23.25	23.49	
20	16QAM	1	49	23.01	23.18	23.21	23.08	23.42	
20	16QAM	1	99	23.00	23.25	23.11	23.03	23.43	23
20	16QAM	50	0	22.09	22.18	22.24	22.15	22.43	
20	16QAM	50	24	22.05	22.20	22.20	22.10	22.43	
20	16QAM	50	50	22.02	22.21	22.14	22.06	22.42	23
20	16QAM	100	0	22.03	22.17	22.19	22.09	22.42	
20	64QAM	1	0	21.73	21.91	21.89	21.89	22.18	
20	64QAM	1	49	21.74	21.82	21.83	21.82	22.13	22
20	64QAM	1	99	21.70	21.92	21.65	21.74	22.05	
20	64QAM	50	0	21.07	21.21	21.18	21.11	21.48	
20	64QAM	50	24	21.03	21.24	21.12	21.12	21.38	20
20	64QAM	50	50	21.01	21.23	21.06	21.08	21.45	
20	64QAM	100	0	21.05	21.22	21.11	21.11	21.48	
20	256QAM	1	0	18.86	18.90	19.04	18.95	19.26	20
20	256QAM	1	49	18.66	18.72	18.86	18.68	19.05	
20	256QAM	1	99	18.53	18.59	18.75	18.61	18.96	
20	256QAM	50	0	18.94	19.01	19.16	19.06	19.28	20
20	256QAM	50	24	18.90	18.99	19.13	18.99	19.35	
20	256QAM	50	50	18.86	18.85	19.06	18.96	19.20	
20	256QAM	100	0	18.86	18.86	19.05	18.90	19.24	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	23.96	24.11	24.23	24.24	24.51	25.00
15	QPSK	1	37	23.79	24.15	24.02	23.97	24.35	
15	QPSK	1	74	23.83	24.05	23.98	23.78	24.38	
15	QPSK	36	0	22.99	23.02	23.11	23.04	23.36	24
15	QPSK	36	20	22.89	23.02	23.13	22.98	23.27	
15	QPSK	36	39	22.82	23.11	22.89	23.07	23.38	
15	QPSK	75	0	22.88	23.09	23.14	23.06	23.32	24
15	16QAM	1	0	22.93	23.14	23.33	23.16	23.45	
15	16QAM	1	37	22.98	23.01	23.07	23.01	23.22	
15	16QAM	1	74	22.92	23.11	22.98	22.99	23.25	23
15	16QAM	36	0	22.06	22.02	22.08	22.15	22.41	
15	16QAM	36	20	21.99	22.20	22.15	22.06	22.43	
15	16QAM	36	39	21.84	22.10	22.00	21.93	22.22	23
15	16QAM	75	0	21.91	22.09	22.10	22.03	22.28	
15	64QAM	1	0	21.73	21.86	21.87	21.76	22.07	
15	64QAM	1	37	21.56	21.72	21.67	21.71	22.03	22
15	64QAM	1	74	21.59	21.85	21.48	21.57	21.95	
15	64QAM	36	0	20.97	21.14	21.06	21.01	21.42	
15	64QAM	36	20	21.00	21.23	21.04	21.08	21.24	20
15	64QAM	36	39	20.84	21.09	20.90	21.08	21.27	
15	64QAM	75	0	20.88	21.05	21.07	21.09	21.30	
15	256QAM	1	0	18.75	18.85	18.87	18.86	19.14	20
15	256QAM	1	37	18.49	18.54	18.70	18.66	19.00	
15	256QAM	1	74	18.34	18.45	18.60	18.55	18.85	
15	256QAM	36	0	18.74	19.01	18.96	19.00	19.16	20
15	256QAM	36	20	18.73	18.83	19.13	18.98	19.25	
15	256QAM	36	39	18.77	18.67	19.06	18.80	19.03	



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Report No. : FA4N0920C

15	256QAM	75	0	18.78	18.72	18.92	18.71	19.23	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	23.92	24.13	24.18	24.11	24.52	25.00
10	QPSK	1	25	23.90	24.27	24.16	23.90	24.41	
10	QPSK	1	49	23.82	24.24	23.90	23.93	24.24	
10	QPSK	25	0	23.07	23.13	23.03	23.18	23.36	24
10	QPSK	25	12	22.94	23.09	23.04	23.06	23.40	
10	QPSK	25	25	22.90	23.00	23.03	22.91	23.30	
10	QPSK	50	0	23.01	23.01	23.15	23.06	23.25	
10	16QAM	1	0	23.02	23.02	23.27	23.18	23.48	24
10	16QAM	1	25	22.99	23.12	23.13	22.92	23.29	
10	16QAM	1	49	22.98	23.14	23.05	22.86	23.32	
10	16QAM	25	0	21.93	22.01	22.05	21.97	22.26	23
10	16QAM	25	12	21.94	22.08	22.11	22.06	22.27	
10	16QAM	25	25	21.83	22.10	22.07	22.02	22.28	
10	16QAM	50	0	22.00	22.07	22.19	22.00	22.29	
10	64QAM	1	0	21.57	21.79	21.73	21.73	22.13	23
10	64QAM	1	25	21.68	21.74	21.83	21.73	21.97	
10	64QAM	1	49	21.68	21.92	21.55	21.63	21.98	
10	64QAM	25	0	20.88	21.05	21.08	21.06	21.39	22
10	64QAM	25	12	20.86	21.17	20.93	20.97	21.20	
10	64QAM	25	25	20.89	21.05	20.97	20.98	21.25	
10	64QAM	50	0	20.94	21.13	21.05	20.96	21.40	
10	256QAM	1	0	18.76	18.76	19.00	18.87	19.10	20
10	256QAM	1	25	18.50	18.62	18.84	18.50	18.85	
10	256QAM	1	49	18.51	18.49	18.59	18.47	18.80	
10	256QAM	25	0	18.94	18.95	19.05	18.98	19.27	20
10	256QAM	25	12	18.86	18.92	18.99	18.96	19.23	
10	256QAM	25	25	18.84	18.78	19.03	18.92	19.06	
10	256QAM	50	0	18.72	18.78	18.98	18.88	19.08	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	24.05	24.11	24.14	24.21	24.39	25.00
5	QPSK	1	12	23.91	24.13	24.18	23.80	24.46	
5	QPSK	1	24	23.92	24.16	23.85	23.96	24.35	
5	QPSK	12	0	22.91	23.15	23.10	23.08	23.42	24
5	QPSK	12	7	22.94	23.14	23.14	23.09	23.40	
5	QPSK	12	13	22.84	23.17	22.89	23.00	23.33	
5	QPSK	25	0	22.97	23.06	23.08	22.99	23.29	
5	16QAM	1	0	23.04	23.21	23.34	23.21	23.35	24
5	16QAM	1	12	22.96	22.99	23.04	23.02	23.29	
5	16QAM	1	24	22.92	23.21	22.96	22.88	23.27	
5	16QAM	12	0	21.94	22.14	22.24	22.09	22.32	23
5	16QAM	12	7	22.03	22.01	22.15	21.99	22.35	
5	16QAM	12	13	21.97	22.17	22.07	21.97	22.36	
5	16QAM	25	0	21.91	22.15	22.06	21.89	22.40	
5	64QAM	1	0	21.73	21.83	21.83	21.81	22.16	23
5	64QAM	1	12	21.69	21.66	21.83	21.69	22.02	
5	64QAM	1	24	21.70	21.78	21.58	21.55	21.98	
5	64QAM	12	0	20.95	21.19	21.15	21.10	21.31	22
5	64QAM	12	7	20.83	21.05	21.11	21.11	21.23	
5	64QAM	12	13	20.86	21.03	20.93	20.96	21.31	
5	64QAM	25	0	21.00	21.17	21.03	20.93	21.45	
5	256QAM	1	0	18.69	18.90	18.92	18.76	19.19	20
5	256QAM	1	12	18.54	18.60	18.75	18.58	18.96	
5	256QAM	1	24	18.48	18.58	18.71	18.46	18.95	
5	256QAM	12	0	18.92	18.92	19.03	18.92	19.14	20
5	256QAM	12	7	18.86	18.81	18.93	18.99	19.27	
5	256QAM	12	13	18.69	18.68	18.87	18.92	19.00	
5	256QAM	25	0	18.67	18.70	18.86	18.90	19.05	



<LTE Band 41_Ant 5_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.83	24.00	23.92	24.09	24.16	24.9
20	QPSK	1	49	23.82	24.05	23.92	24.02	24.09	
20	QPSK	1	99	23.74	23.97	23.81	23.90	24.04	
20	QPSK	50	0	22.82	22.95	22.90	23.01	23.09	24
20	QPSK	50	24	22.80	22.96	22.87	23.00	23.09	
20	QPSK	50	50	22.76	22.92	22.82	22.93	23.08	
20	QPSK	100	0	22.80	22.86	22.88	22.90	23.00	24
20	16QAM	1	0	22.85	23.02	23.04	23.13	23.12	
20	16QAM	1	49	22.70	22.92	22.88	22.93	22.96	
20	16QAM	1	99	22.70	22.98	22.90	22.84	23.00	23
20	16QAM	50	0	21.81	21.93	21.94	21.99	22.00	
20	16QAM	50	24	21.77	21.93	21.92	21.93	21.98	
20	16QAM	50	50	21.73	21.93	21.87	21.87	21.99	23
20	16QAM	100	0	21.76	21.92	21.91	21.92	21.98	
20	64QAM	1	0	21.51	21.69	21.59	21.74	21.79	
20	64QAM	1	49	21.47	21.71	21.53	21.66	21.74	22
20	64QAM	1	99	21.41	21.61	21.45	21.52	21.68	
20	64QAM	50	0	20.81	20.97	20.88	21.02	21.05	
20	64QAM	50	24	20.78	20.95	20.83	20.95	21.03	20
20	64QAM	50	50	20.75	20.93	20.83	20.91	21.00	
20	64QAM	100	0	20.80	20.95	20.83	20.95	21.03	
20	256QAM	1	0	18.67	18.80	18.69	18.87	18.83	20
20	256QAM	1	49	18.49	18.70	18.60	18.75	18.73	
20	256QAM	1	99	18.47	18.61	18.55	18.69	18.64	
20	256QAM	50	0	18.83	18.89	18.88	19.05	19.00	20
20	256QAM	50	24	18.76	18.97	18.86	19.04	18.93	
20	256QAM	50	50	18.78	18.96	18.85	19.03	18.93	
20	256QAM	100	0	18.74	18.89	18.84	19.00	18.91	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	23.75	23.93	23.78	23.89	24.00	24.90
15	QPSK	1	37	23.66	23.85	23.89	24.00	24.03	
15	QPSK	1	74	23.56	23.87	23.73	23.82	24.01	
15	QPSK	36	0	22.78	22.88	22.76	22.83	23.03	24
15	QPSK	36	20	22.69	22.80	22.75	22.90	23.08	
15	QPSK	36	39	22.61	22.90	22.70	22.92	22.88	
15	QPSK	75	0	22.73	22.85	22.86	22.89	22.90	24
15	16QAM	1	0	22.65	22.93	22.94	23.02	22.93	
15	16QAM	1	37	22.65	22.82	22.78	22.91	22.77	
15	16QAM	1	74	22.58	22.87	22.85	22.75	23.00	23
15	16QAM	36	0	21.73	21.79	21.92	21.92	21.90	
15	16QAM	36	20	21.70	21.77	21.81	21.73	21.78	
15	16QAM	36	39	21.60	21.92	21.67	21.79	21.88	23
15	16QAM	75	0	21.71	21.90	21.77	21.79	21.78	
15	64QAM	1	0	21.33	21.56	21.54	21.69	21.62	
15	64QAM	1	37	21.28	21.59	21.43	21.61	21.57	22
15	64QAM	1	74	21.32	21.56	21.36	21.39	21.63	
15	64QAM	36	0	20.74	20.80	20.71	20.98	21.04	
15	64QAM	36	20	20.76	20.91	20.76	20.81	20.90	20
15	64QAM	36	39	20.65	20.75	20.82	20.82	20.94	
15	64QAM	75	0	20.70	20.77	20.74	20.87	20.87	
15	256QAM	1	0	18.59	18.66	18.50	18.72	18.82	20
15	256QAM	1	37	18.44	18.67	18.59	18.75	18.54	
15	256QAM	1	74	18.40	18.56	18.51	18.62	18.63	
15	256QAM	36	0	18.81	18.86	18.88	18.97	19.00	20
15	256QAM	36	20	18.62	18.88	18.77	18.91	18.90	
15	256QAM	36	39	18.64	18.83	18.70	18.87	18.81	



FCC SAR TEST REPORT

Report No. : FA4N0920C

15	256QAM	75	0	18.73	18.87	18.65	18.86	18.88	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	23.70	24.00	23.91	23.91	23.99	24.90
10	QPSK	1	25	23.63	23.99	23.81	23.82	23.97	
10	QPSK	1	49	23.61	23.87	23.81	23.76	23.97	
10	QPSK	25	0	22.72	22.80	22.73	22.88	22.96	24
10	QPSK	25	12	22.64	22.80	22.71	22.98	23.06	
10	QPSK	25	25	22.68	22.84	22.73	22.76	23.02	
10	QPSK	50	0	22.76	22.73	22.81	22.83	22.89	
10	16QAM	1	0	22.84	22.88	22.86	23.00	22.99	24
10	16QAM	1	25	22.66	22.79	22.72	22.84	22.83	
10	16QAM	1	49	22.62	22.86	22.84	22.80	22.87	
10	16QAM	25	0	21.73	21.82	21.75	21.93	21.97	23
10	16QAM	25	12	21.75	21.88	21.73	21.84	21.92	
10	16QAM	25	25	21.54	21.73	21.72	21.74	21.86	
10	16QAM	50	0	21.57	21.87	21.77	21.91	21.88	
10	64QAM	1	0	21.35	21.58	21.43	21.59	21.67	23
10	64QAM	1	25	21.44	21.69	21.45	21.63	21.71	
10	64QAM	1	49	21.26	21.59	21.25	21.46	21.55	
10	64QAM	25	0	20.68	20.92	20.69	20.85	20.90	22
10	64QAM	25	12	20.78	20.82	20.80	20.80	20.87	
10	64QAM	25	25	20.55	20.80	20.76	20.80	20.98	
10	64QAM	50	0	20.72	20.92	20.66	20.94	20.89	
10	256QAM	1	0	18.63	18.75	18.53	18.84	18.81	20
10	256QAM	1	25	18.29	18.61	18.56	18.60	18.64	
10	256QAM	1	49	18.40	18.54	18.44	18.57	18.44	
10	256QAM	25	0	18.69	18.76	18.84	18.93	18.90	20
10	256QAM	25	12	18.62	18.95	18.69	18.95	18.75	
10	256QAM	25	25	18.66	18.89	18.79	19.00	18.74	
10	256QAM	50	0	18.57	18.85	18.80	18.98	18.78	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	23.76	23.92	23.84	23.94	24.09	24.90
5	QPSK	1	12	23.69	23.88	23.79	23.97	23.98	
5	QPSK	1	24	23.61	23.86	23.79	23.72	23.87	
5	QPSK	12	0	22.63	22.83	22.88	22.97	22.98	24
5	QPSK	12	7	22.77	22.91	22.86	22.87	23.02	
5	QPSK	12	13	22.75	22.86	22.82	22.78	23.07	
5	QPSK	25	0	22.60	22.76	22.86	22.88	22.85	
5	16QAM	1	0	22.83	22.97	22.95	22.94	22.96	24
5	16QAM	1	12	22.59	22.91	22.70	22.93	22.85	
5	16QAM	1	24	22.56	22.93	22.79	22.77	22.90	
5	16QAM	12	0	21.65	21.78	21.79	21.79	21.94	23
5	16QAM	12	7	21.74	21.78	21.85	21.86	21.94	
5	16QAM	12	13	21.66	21.83	21.82	21.86	21.91	
5	16QAM	25	0	21.63	21.85	21.81	21.74	21.97	
5	64QAM	1	0	21.50	21.56	21.59	21.62	21.71	23
5	64QAM	1	12	21.33	21.61	21.35	21.47	21.61	
5	64QAM	1	24	21.30	21.57	21.37	21.42	21.61	
5	64QAM	12	0	20.62	20.96	20.77	20.85	21.00	22
5	64QAM	12	7	20.74	20.84	20.79	20.89	20.90	
5	64QAM	12	13	20.67	20.92	20.75	20.72	20.94	
5	64QAM	25	0	20.77	20.91	20.69	20.86	20.89	
5	256QAM	1	0	18.47	18.65	18.59	18.68	18.74	20
5	256QAM	1	12	18.40	18.53	18.47	18.64	18.72	
5	256QAM	1	24	18.47	18.42	18.45	18.64	18.47	
5	256QAM	12	0	18.79	18.81	18.83	19.05	18.98	20
5	256QAM	12	7	18.64	18.83	18.81	18.96	18.74	
5	256QAM	12	13	18.69	18.89	18.82	18.90	18.90	
5	256QAM	25	0	18.71	18.77	18.67	18.97	18.85	



<LTE Band 41_HPUE_Ant 2_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.75	25.97	25.99	26.10	26.11	27
20	QPSK	1	49	25.72	25.88	25.86	25.96	25.98	
20	QPSK	1	99	25.81	25.91	25.87	25.96	25.95	
20	QPSK	50	0	25.10	25.17	25.10	25.27	25.32	26
20	QPSK	50	24	25.08	25.17	25.03	25.23	25.26	
20	QPSK	50	50	25.05	25.15	24.98	25.21	25.18	
20	QPSK	100	0	25.07	25.15	25.02	25.25	25.26	
20	16QAM	1	0	25.08	25.34	25.35	25.46	25.43	26
20	16QAM	1	49	25.04	25.22	25.20	25.28	25.34	
20	16QAM	1	99	25.15	25.28	25.23	25.25	25.31	
20	16QAM	50	0	24.06	24.19	24.12	24.28	24.32	25
20	16QAM	50	24	24.05	24.17	24.07	24.24	24.28	
20	16QAM	50	50	24.05	24.15	24.03	24.20	24.23	
20	16QAM	100	0	24.04	24.14	24.04	24.24	24.25	
20	64QAM	1	0	23.95	24.17	24.10	24.26	24.25	25
20	64QAM	1	49	23.88	24.05	23.99	24.08	24.18	
20	64QAM	1	99	23.93	24.05	23.96	24.04	24.11	
20	64QAM	50	0	22.98	23.11	23.05	23.17	23.23	24
20	64QAM	50	24	22.97	23.09	22.99	23.13	23.19	
20	64QAM	50	50	22.94	23.08	22.96	23.14	23.15	
20	64QAM	100	0	22.96	23.09	22.99	23.16	23.18	
20	256QAM	1	0	21.05	21.18	21.10	21.28	21.32	22
20	256QAM	1	49	20.90	20.96	20.95	21.12	21.14	
20	256QAM	1	99	20.83	20.89	20.90	21.00	21.11	
20	256QAM	50	0	21.03	21.24	21.16	21.30	21.30	22
20	256QAM	50	24	20.96	21.13	21.10	21.21	21.27	
20	256QAM	50	50	20.95	21.09	21.01	21.09	21.21	
20	256QAM	100	0	20.94	21.13	21.05	21.14	21.19	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	25.66	25.82	25.91	26.08	25.99	27.00
15	QPSK	1	37	25.53	25.69	25.77	25.85	25.86	
15	QPSK	1	74	25.71	25.75	25.74	25.96	25.93	
15	QPSK	36	0	24.96	25.07	25.00	25.22	25.26	26
15	QPSK	36	20	24.91	25.12	24.99	25.05	25.08	
15	QPSK	36	39	24.91	25.15	24.97	25.15	25.13	
15	QPSK	75	0	24.92	25.15	24.96	25.25	25.11	
15	16QAM	1	0	24.97	25.27	25.30	25.32	25.31	26
15	16QAM	1	37	24.90	25.09	25.11	25.16	25.23	
15	16QAM	1	74	24.96	25.28	25.23	25.18	25.14	
15	16QAM	36	0	23.94	24.17	24.03	24.18	24.16	25
15	16QAM	36	20	23.93	23.97	23.90	24.13	24.16	
15	16QAM	36	39	23.88	24.07	23.91	24.20	24.23	
15	16QAM	75	0	24.01	24.05	23.86	24.21	24.18	
15	64QAM	1	0	23.93	24.09	23.98	24.09	24.14	25
15	64QAM	1	37	23.72	23.85	23.89	23.95	24.11	
15	64QAM	1	74	23.93	23.96	23.84	23.94	24.08	
15	64QAM	36	0	22.93	23.08	22.91	23.01	23.12	24
15	64QAM	36	20	22.79	23.02	22.88	23.09	23.17	
15	64QAM	36	39	22.90	22.99	22.86	22.94	23.00	
15	64QAM	75	0	22.85	23.01	22.98	23.04	23.11	
15	256QAM	1	0	20.98	21.03	21.10	21.23	21.14	22
15	256QAM	1	37	20.75	20.87	20.94	21.06	20.99	
15	256QAM	1	74	20.70	20.88	20.87	20.92	21.02	
15	256QAM	36	0	20.87	21.13	21.14	21.18	21.16	22
15	256QAM	36	20	20.93	20.96	20.99	21.20	21.19	
15	256QAM	36	39	20.79	21.01	21.01	20.97	21.08	



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Report No. : FA4N0920C

15	256QAM	75	0	20.89	21.09	20.89	21.08	21.16	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	25.56	25.82	25.98	25.96	25.97	27.00
10	QPSK	1	25	25.52	25.68	25.76	25.87	25.84	
10	QPSK	1	49	25.74	25.73	25.81	25.82	25.88	
10	QPSK	25	0	25.08	25.10	24.98	25.11	25.30	26
10	QPSK	25	12	25.05	25.00	25.00	25.16	25.24	
10	QPSK	25	25	24.92	24.95	24.90	25.04	25.01	
10	QPSK	50	0	25.02	25.15	24.91	25.25	25.23	
10	16QAM	1	0	24.99	25.26	25.28	25.29	25.43	26
10	16QAM	1	25	24.88	25.21	25.03	25.22	25.26	
10	16QAM	1	49	25.11	25.20	25.09	25.23	25.26	
10	16QAM	25	0	23.87	24.16	23.96	24.18	24.25	25
10	16QAM	25	12	24.05	24.02	23.93	24.12	24.20	
10	16QAM	25	25	23.91	23.95	23.84	24.07	24.19	
10	16QAM	50	0	23.97	24.05	23.89	24.04	24.14	
10	64QAM	1	0	23.95	24.10	24.00	24.17	24.24	25
10	64QAM	1	25	23.86	24.04	23.97	24.01	24.10	
10	64QAM	1	49	23.80	23.91	23.94	23.99	23.97	
10	64QAM	25	0	22.81	22.94	23.04	23.01	23.05	24
10	64QAM	25	12	22.96	23.01	22.81	22.97	23.13	
10	64QAM	25	25	22.85	22.90	22.93	22.98	23.12	
10	64QAM	50	0	22.92	22.90	22.98	23.00	23.18	
10	256QAM	1	0	20.87	21.18	20.97	21.23	21.24	22
10	256QAM	1	25	20.73	20.81	20.85	21.09	20.95	
10	256QAM	1	49	20.77	20.80	20.72	20.85	20.96	
10	256QAM	25	0	20.91	21.16	21.05	21.18	21.29	22
10	256QAM	25	12	20.80	20.97	21.06	21.20	21.21	
10	256QAM	25	25	20.90	21.08	20.91	21.04	21.13	
10	256QAM	50	0	20.82	21.02	21.00	21.14	21.06	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	25.68	25.78	25.81	25.95	25.91	27.00
5	QPSK	1	12	25.59	25.84	25.81	25.83	25.87	
5	QPSK	1	24	25.80	25.86	25.81	25.89	25.90	
5	QPSK	12	0	25.02	25.03	25.05	25.16	25.21	26
5	QPSK	12	7	24.90	24.99	24.91	25.22	25.12	
5	QPSK	12	13	25.03	24.99	24.86	25.11	25.15	
5	QPSK	25	0	24.97	25.11	25.02	25.16	25.07	
5	16QAM	1	0	24.90	25.24	25.23	25.28	25.25	26
5	16QAM	1	12	24.88	25.21	25.13	25.20	25.18	
5	16QAM	1	24	25.06	25.08	25.04	25.12	25.27	
5	16QAM	12	0	24.05	24.10	23.97	24.16	24.13	25
5	16QAM	12	7	23.91	24.01	23.95	24.24	24.23	
5	16QAM	12	13	23.99	23.96	23.91	24.01	24.10	
5	16QAM	25	0	23.98	24.01	23.84	24.11	24.11	
5	64QAM	1	0	23.78	24.17	24.08	24.08	24.09	25
5	64QAM	1	12	23.82	23.96	23.91	24.01	24.01	
5	64QAM	1	24	23.81	23.85	23.94	23.90	24.09	
5	64QAM	12	0	22.80	22.91	22.96	23.12	23.14	24
5	64QAM	12	7	22.93	23.01	22.92	22.93	23.07	
5	64QAM	12	13	22.82	22.94	22.78	23.00	23.11	
5	64QAM	25	0	22.85	22.96	22.79	23.07	23.07	
5	256QAM	1	0	20.85	21.06	20.98	21.10	21.20	22
5	256QAM	1	12	20.70	20.80	20.90	21.06	20.99	
5	256QAM	1	24	20.78	20.85	20.73	20.93	20.91	
5	256QAM	12	0	21.00	21.19	21.10	21.12	21.10	22
5	256QAM	12	7	20.89	21.03	21.00	21.06	21.25	
5	256QAM	12	13	20.93	20.90	20.84	21.02	21.06	
5	256QAM	25	0	20.82	20.94	20.95	21.13	21.10	



<LTE Band 41_HPUE_Ant 1_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.50	24.32	24.34	24.61	24.56	25.9
20	QPSK	1	49	24.49	24.30	24.39	24.60	24.60	
20	QPSK	1	99	24.35	24.18	24.21	24.58	24.47	
20	QPSK	50	0	24.00	24.00	24.08	24.28	24.18	25.9
20	QPSK	50	24	23.97	24.00	24.00	24.24	24.12	
20	QPSK	50	50	23.93	23.97	23.97	24.21	24.09	
20	QPSK	100	0	23.94	23.94	24.01	24.21	24.11	
20	16QAM	1	0	23.96	24.05	23.91	24.38	24.22	25.9
20	16QAM	1	49	23.99	24.03	23.86	24.32	24.12	
20	16QAM	1	99	23.99	23.99	24.07	24.21	24.04	
20	16QAM	50	0	23.06	23.06	23.05	23.29	23.20	25
20	16QAM	50	24	23.06	23.03	23.02	23.26	23.17	
20	16QAM	50	50	23.02	23.02	23.07	23.22	23.13	
20	16QAM	100	0	23.01	23.01	23.02	23.25	23.17	
20	64QAM	1	0	23.05	23.05	23.03	23.02	23.06	25
20	64QAM	1	49	23.06	23.05	23.03	23.01	23.08	
20	64QAM	1	99	23.03	23.05	23.07	23.03	23.02	
20	64QAM	50	0	22.05	22.03	22.03	22.29	22.17	24
20	64QAM	50	24	22.08	22.00	22.08	22.23	22.13	
20	64QAM	50	50	22.07	22.06	22.03	22.21	22.10	
20	64QAM	100	0	22.09	22.01	22.06	22.23	22.13	
20	256QAM	1	0	21.98	21.07	21.08	21.45	21.57	22
20	256QAM	1	49	20.89	20.85	21.02	21.22	21.35	
20	256QAM	1	99	20.93	20.74	21.00	21.14	21.23	
20	256QAM	50	0	21.16	21.03	21.16	21.43	21.52	22
20	256QAM	50	24	21.13	21.09	21.09	21.34	21.32	
20	256QAM	50	50	21.09	20.90	21.12	21.31	21.51	
20	256QAM	100	0	21.03	20.86	21.05	21.22	21.47	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	24.40	24.29	24.27	24.60	24.49	25.90
15	QPSK	1	37	24.47	24.27	24.31	24.54	24.51	
15	QPSK	1	74	24.33	24.08	24.17	24.57	24.42	
15	QPSK	36	0	23.93	23.91	24.05	24.25	24.11	25.9
15	QPSK	36	20	23.89	23.93	23.99	24.22	24.12	
15	QPSK	36	39	23.88	23.93	23.90	24.17	24.09	
15	QPSK	75	0	23.93	23.94	23.91	24.14	24.02	
15	16QAM	1	0	23.90	23.96	23.88	24.34	24.20	25.9
15	16QAM	1	37	23.89	23.97	23.83	24.25	24.07	
15	16QAM	1	74	23.95	23.99	23.97	24.21	23.99	
15	16QAM	36	0	23.04	23.02	23.01	23.27	23.12	25
15	16QAM	36	20	23.03	23.03	23.00	23.25	23.09	
15	16QAM	36	39	23.00	23.00	23.01	23.16	23.08	
15	16QAM	75	0	23.00	23.01	23.00	23.21	23.13	
15	64QAM	1	0	23.00	22.96	23.00	22.92	23.00	25
15	64QAM	1	37	23.04	22.95	23.01	22.99	23.04	
15	64QAM	1	74	22.97	22.96	23.01	22.95	22.94	
15	64QAM	36	0	22.00	22.06	22.03	22.29	22.15	24
15	64QAM	36	20	22.00	22.01	22.07	22.13	22.12	
15	64QAM	36	39	22.01	22.04	22.00	22.18	22.03	
15	64QAM	75	0	22.06	22.07	22.06	22.17	22.12	
15	256QAM	1	0	21.90	21.00	21.02	21.38	21.48	22
15	256QAM	1	37	20.88	20.80	21.02	21.19	21.33	
15	256QAM	1	74	20.84	20.65	20.99	21.14	21.22	
15	256QAM	36	0	21.07	20.98	21.09	21.34	21.49	22
15	256QAM	36	20	21.05	21.07	21.05	21.29	21.30	
15	256QAM	36	39	21.08	20.90	21.10	21.28	21.44	



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15	256QAM	75	0	20.96	20.76	21.03	21.13	21.42	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	24.44	24.26	24.28	24.60	24.54	25.90
10	QPSK	1	25	24.46	24.22	24.35	24.57	24.51	
10	QPSK	1	49	24.27	24.15	24.12	24.54	24.43	
10	QPSK	25	0	23.92	24.00	24.05	24.28	24.17	25.9
10	QPSK	25	12	23.93	23.97	23.95	24.21	24.07	
10	QPSK	25	25	23.93	23.95	23.96	24.13	24.08	
10	QPSK	50	0	23.90	23.85	23.98	24.12	24.08	
10	16QAM	1	0	23.86	24.00	23.85	24.37	24.19	25.9
10	16QAM	1	25	23.94	23.93	23.85	24.22	24.08	
10	16QAM	1	49	23.92	23.99	23.98	24.11	23.95	
10	16QAM	25	0	23.02	22.97	22.96	23.28	23.20	25
10	16QAM	25	12	22.98	22.99	22.95	23.17	23.07	
10	16QAM	25	25	22.97	22.98	23.05	23.19	23.11	
10	16QAM	50	0	22.96	22.91	22.99	23.15	23.16	
10	64QAM	1	0	23.12	23.09	23.08	23.04	23.08	25
10	64QAM	1	25	23.01	22.96	23.00	23.01	23.05	
10	64QAM	1	49	23.08	22.95	23.04	22.98	23.00	
10	64QAM	25	0	22.08	22.08	22.03	22.21	22.16	24
10	64QAM	25	12	22.00	22.00	22.01	22.18	22.03	
10	64QAM	25	25	22.06	22.05	22.04	22.15	22.01	
10	64QAM	50	0	22.03	22.04	22.04	22.17	22.09	
10	256QAM	1	0	21.91	21.06	21.05	21.38	21.51	22
10	256QAM	1	25	20.82	20.82	20.97	21.17	21.34	
10	256QAM	1	49	20.90	20.64	20.92	21.05	21.17	
10	256QAM	25	0	21.12	21.00	21.10	21.40	21.47	22
10	256QAM	25	12	21.07	21.09	21.05	21.31	21.25	
10	256QAM	25	25	21.01	20.81	21.04	21.22	21.44	
10	256QAM	50	0	20.99	20.78	21.01	21.18	21.40	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	24.40	24.24	24.27	24.59	24.52	25.90
5	QPSK	1	12	24.40	24.26	24.35	24.59	24.56	
5	QPSK	1	24	24.25	24.16	24.16	24.57	24.43	
5	QPSK	12	0	24.00	23.96	24.04	24.24	24.12	25.9
5	QPSK	12	7	23.91	23.96	23.95	24.15	24.05	
5	QPSK	12	13	23.86	23.90	23.94	24.11	24.07	
5	QPSK	25	0	23.92	23.92	24.00	24.14	24.05	
5	16QAM	1	0	23.96	23.95	23.95	24.31	24.19	25.9
5	16QAM	1	12	23.91	24.00	23.93	24.26	24.02	
5	16QAM	1	24	23.98	23.99	24.02	24.12	24.01	
5	16QAM	12	0	23.16	23.07	23.13	23.31	23.26	25
5	16QAM	12	7	23.09	23.03	23.09	23.29	23.17	
5	16QAM	12	13	23.08	23.10	23.12	23.22	23.14	
5	16QAM	25	0	23.08	23.09	23.08	23.25	23.23	
5	64QAM	1	0	23.14	23.11	23.10	23.03	23.08	25
5	64QAM	1	12	23.06	23.08	23.13	23.11	23.08	
5	64QAM	1	24	23.09	23.07	23.17	23.08	23.05	
5	64QAM	12	0	22.09	22.10	22.05	22.33	22.23	24
5	64QAM	12	7	22.18	22.09	22.16	22.23	22.23	
5	64QAM	12	13	22.16	22.07	22.06	22.21	22.19	
5	64QAM	25	0	22.14	22.06	22.08	22.33	22.23	
5	256QAM	1	0	21.92	21.05	21.06	21.38	21.49	22
5	256QAM	1	12	20.82	20.79	21.01	21.17	21.34	
5	256QAM	1	24	20.83	20.70	20.97	21.09	21.23	
5	256QAM	12	0	21.13	20.98	21.12	21.34	21.47	22
5	256QAM	12	7	21.06	21.08	21.02	21.29	21.28	
5	256QAM	12	13	21.04	20.89	21.10	21.24	21.51	
5	256QAM	25	0	20.95	20.84	21.02	21.22	21.42	



<LTE Band 41_HPUE_Ant 0_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.82	25.96	26.09	25.99	26.23	27
20	QPSK	1	49	25.77	25.94	25.93	25.97	26.18	
20	QPSK	1	99	25.74	25.97	25.87	25.91	26.15	
20	QPSK	50	0	25.03	25.13	25.12	25.14	25.34	26
20	QPSK	50	24	24.97	25.14	25.07	25.14	25.34	
20	QPSK	50	50	24.93	25.12	25.02	25.14	25.36	
20	QPSK	100	0	24.94	25.08	25.06	25.11	25.35	
20	16QAM	1	0	25.01	25.22	25.35	25.15	25.48	26
20	16QAM	1	49	24.99	25.18	25.28	25.00	25.45	
20	16QAM	1	99	24.97	25.25	25.14	24.94	25.39	
20	16QAM	50	0	23.99	24.08	24.14	24.07	24.34	25
20	16QAM	50	24	23.94	24.09	24.11	24.04	24.33	
20	16QAM	50	50	23.90	24.09	24.04	23.97	24.32	
20	16QAM	100	0	23.91	24.07	24.08	24.02	24.32	
20	64QAM	1	0	23.85	24.02	24.15	23.98	24.30	25
20	64QAM	1	49	23.80	23.98	24.04	23.87	24.27	
20	64QAM	1	99	23.94	24.07	23.91	23.73	24.22	
20	64QAM	50	0	22.94	23.04	23.07	22.99	23.27	24
20	64QAM	50	24	22.88	23.05	23.01	22.95	23.26	
20	64QAM	50	50	22.86	23.06	22.99	22.90	23.26	
20	64QAM	100	0	22.88	23.03	23.04	22.94	23.28	
20	256QAM	1	0	20.91	20.96	21.05	21.05	21.25	22
20	256QAM	1	49	20.79	20.90	21.00	20.94	21.13	
20	256QAM	1	99	20.68	20.72	20.82	20.81	20.97	
20	256QAM	50	0	20.89	21.01	21.10	21.09	21.30	22
20	256QAM	50	24	20.89	20.90	21.05	21.05	21.23	
20	256QAM	50	50	20.84	20.90	21.00	20.94	21.14	
20	256QAM	100	0	20.80	20.84	21.00	20.93	21.11	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	25.74	25.95	25.93	25.84	26.08	27.00
15	QPSK	1	37	25.63	25.75	25.80	25.83	26.11	
15	QPSK	1	74	25.72	25.79	25.86	25.84	26.02	
15	QPSK	36	0	24.89	25.05	24.96	24.99	25.23	26
15	QPSK	36	20	24.90	25.04	25.00	25.02	25.19	
15	QPSK	36	39	24.85	25.02	24.87	25.03	25.21	
15	QPSK	75	0	24.85	25.05	24.94	25.00	25.32	
15	16QAM	1	0	24.98	25.22	25.21	25.03	25.35	26
15	16QAM	1	37	24.80	25.04	25.11	24.91	25.28	
15	16QAM	1	74	24.91	25.24	25.09	24.88	25.29	
15	16QAM	36	0	23.84	23.95	24.13	23.94	24.23	25
15	16QAM	36	20	23.94	24.09	24.03	23.89	24.25	
15	16QAM	36	39	23.86	24.08	23.96	23.86	24.32	
15	16QAM	75	0	23.90	24.05	24.07	23.85	24.13	
15	64QAM	1	0	23.83	23.90	24.15	23.90	24.13	25
15	64QAM	1	37	23.67	23.95	23.91	23.70	24.09	
15	64QAM	1	74	23.76	23.91	23.84	23.70	24.18	
15	64QAM	36	0	22.92	22.91	23.03	22.85	23.12	24
15	64QAM	36	20	22.68	22.91	22.99	22.85	23.20	
15	64QAM	36	39	22.77	22.95	22.80	22.72	23.19	
15	64QAM	75	0	22.83	22.91	22.93	22.82	23.08	
15	256QAM	1	0	20.87	20.84	20.92	21.01	21.06	22
15	256QAM	1	37	20.72	20.85	20.99	20.81	20.97	
15	256QAM	1	74	20.65	20.58	20.78	20.79	20.94	
15	256QAM	36	0	20.83	20.94	20.91	21.00	21.24	22
15	256QAM	36	20	20.80	20.72	20.95	20.85	21.08	
15	256QAM	36	39	20.79	20.79	20.81	20.90	20.97	



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15	256QAM	75	0	20.80	20.78	20.86	20.89	21.00	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	25.65	25.76	26.05	25.87	26.08	27.00
10	QPSK	1	25	25.70	25.91	25.75	25.78	26.00	
10	QPSK	1	49	25.59	25.88	25.80	25.78	25.96	
10	QPSK	25	0	24.85	24.95	24.92	25.13	25.24	26
10	QPSK	25	12	24.96	25.03	24.90	25.11	25.24	
10	QPSK	25	25	24.80	25.10	24.83	25.12	25.31	
10	QPSK	50	0	24.77	24.99	24.97	25.08	25.27	
10	16QAM	1	0	24.89	25.16	25.31	25.09	25.29	26
10	16QAM	1	25	24.96	24.98	25.08	24.88	25.26	
10	16QAM	1	49	24.83	25.11	25.08	24.80	25.19	
10	16QAM	25	0	23.98	24.02	24.14	23.89	24.29	25
10	16QAM	25	12	23.85	24.09	24.02	23.91	24.21	
10	16QAM	25	25	23.83	24.07	23.97	23.90	24.16	
10	16QAM	50	0	23.73	23.94	24.08	23.86	24.21	
10	64QAM	1	0	23.71	23.88	24.14	23.97	24.10	25
10	64QAM	1	25	23.64	23.98	23.97	23.87	24.10	
10	64QAM	1	49	23.81	24.07	23.81	23.63	24.14	
10	64QAM	25	0	22.79	22.95	22.94	22.81	23.16	24
10	64QAM	25	12	22.80	23.04	22.94	22.75	23.14	
10	64QAM	25	25	22.79	23.01	22.90	22.77	23.18	
10	64QAM	50	0	22.72	22.83	23.02	22.79	23.25	
10	256QAM	1	0	20.90	20.92	20.96	20.85	21.05	22
10	256QAM	1	25	20.61	20.85	20.85	20.82	21.10	
10	256QAM	1	49	20.59	20.56	20.68	20.72	20.93	
10	256QAM	25	0	20.85	20.89	21.08	20.93	21.27	22
10	256QAM	25	12	20.88	20.76	20.90	20.91	21.10	
10	256QAM	25	25	20.83	20.71	20.95	20.88	21.03	
10	256QAM	50	0	20.80	20.64	20.97	20.93	20.99	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	25.77	25.81	26.02	25.98	26.12	27.00
5	QPSK	1	12	25.58	25.91	25.80	25.78	26.04	
5	QPSK	1	24	25.56	25.89	25.82	25.79	26.00	
5	QPSK	12	0	24.84	25.10	24.97	25.14	25.29	26
5	QPSK	12	7	24.88	25.04	24.97	24.96	25.29	
5	QPSK	12	13	24.93	25.03	24.98	24.98	25.28	
5	QPSK	25	0	24.93	24.97	24.88	24.93	25.21	
5	16QAM	1	0	24.83	25.02	25.24	25.12	25.30	26
5	16QAM	1	12	24.92	25.12	25.27	24.93	25.34	
5	16QAM	1	24	24.85	25.12	25.06	24.82	25.29	
5	16QAM	12	0	23.90	23.95	24.10	23.87	24.18	25
5	16QAM	12	7	23.76	23.94	24.00	23.92	24.26	
5	16QAM	12	13	23.90	24.02	23.90	23.87	24.13	
5	16QAM	25	0	23.76	23.91	23.94	23.90	24.27	
5	64QAM	1	0	23.69	23.96	24.11	23.86	24.14	25
5	64QAM	1	12	23.74	23.92	23.85	23.75	24.21	
5	64QAM	1	24	23.85	24.06	23.80	23.62	24.17	
5	64QAM	12	0	22.87	22.87	22.91	22.99	23.13	24
5	64QAM	12	7	22.72	22.88	22.94	22.89	23.22	
5	64QAM	12	13	22.68	23.06	22.85	22.78	23.17	
5	64QAM	25	0	22.77	22.97	22.96	22.89	23.14	
5	256QAM	1	0	20.71	20.90	20.90	21.03	21.18	22
5	256QAM	1	12	20.64	20.89	20.97	20.85	20.95	
5	256QAM	1	24	20.49	20.57	20.68	20.72	20.95	
5	256QAM	12	0	20.86	20.95	21.04	21.06	21.11	22
5	256QAM	12	7	20.81	20.83	21.01	20.87	21.21	
5	256QAM	12	13	20.72	20.87	20.92	20.77	21.02	
5	256QAM	25	0	20.65	20.77	20.82	20.91	20.92	

**<LTE Band 41_HPUE_Ant 5_Index 2>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.63	25.77	25.88	25.85	25.89	26.6
20	QPSK	1	49	25.51	25.73	25.76	25.69	25.61	
20	QPSK	1	99	25.53	25.81	25.72	25.64	25.82	
20	QPSK	50	0	24.84	24.96	24.89	24.98	24.99	26.6
20	QPSK	50	24	24.77	24.90	24.85	24.96	24.97	
20	QPSK	50	50	24.71	24.90	24.82	24.87	24.97	
20	QPSK	100	0	24.71	24.89	24.86	24.94	24.97	
20	16QAM	1	0	24.82	25.07	25.13	25.12	25.16	26.6
20	16QAM	1	49	24.75	24.99	25.00	24.92	25.14	
20	16QAM	1	99	24.74	25.07	24.97	24.86	25.05	
20	16QAM	50	0	23.77	23.91	23.90	23.98	23.98	25
20	16QAM	50	24	23.72	23.90	23.87	23.92	23.98	
20	16QAM	50	50	23.68	23.91	23.83	23.85	23.97	
20	16QAM	100	0	23.70	23.88	23.85	23.90	23.97	
20	64QAM	1	0	23.67	23.83	23.94	23.95	23.98	25
20	64QAM	1	49	23.57	23.79	23.83	23.76	23.88	
20	64QAM	1	99	23.58	23.85	23.80	23.66	23.88	
20	64QAM	50	0	22.74	22.87	22.88	22.93	22.92	24
20	64QAM	50	24	22.68	22.84	22.83	22.85	22.91	
20	64QAM	50	50	22.66	22.86	22.79	22.82	22.94	
20	64QAM	100	0	22.68	22.85	22.82	22.84	22.93	
20	256QAM	1	0	20.74	20.80	20.78	20.94	20.88	22
20	256QAM	1	49	20.67	20.66	20.72	20.79	20.80	
20	256QAM	1	99	20.57	20.62	20.62	20.76	20.65	
20	256QAM	50	0	20.77	20.84	20.89	20.95	20.92	22
20	256QAM	50	24	20.74	20.75	20.81	20.90	20.90	
20	256QAM	50	50	20.70	20.80	20.79	20.94	20.83	
20	256QAM	100	0	20.67	20.75	20.76	20.86	20.81	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	25.44	25.58	25.78	25.65	25.69	26.60
15	QPSK	1	37	25.49	25.54	25.74	25.57	25.52	
15	QPSK	1	74	25.37	25.63	25.64	25.58	25.79	
15	QPSK	36	0	24.70	24.85	24.81	24.89	24.78	26.6
15	QPSK	36	20	24.71	24.79	24.72	24.91	24.96	
15	QPSK	36	39	24.66	24.79	24.76	24.71	24.93	
15	QPSK	75	0	24.63	24.70	24.71	24.74	24.87	
15	16QAM	1	0	24.79	24.93	25.05	25.10	25.13	26.6
15	16QAM	1	37	24.64	24.81	24.86	24.83	25.01	
15	16QAM	1	74	24.56	25.05	24.84	24.66	24.98	
15	16QAM	36	0	23.72	23.71	23.73	23.96	23.93	25
15	16QAM	36	20	23.67	23.89	23.67	23.80	23.90	
15	16QAM	36	39	23.55	23.79	23.77	23.82	23.80	
15	16QAM	75	0	23.60	23.71	23.85	23.83	23.93	
15	64QAM	1	0	23.62	23.72	23.82	23.77	23.84	25
15	64QAM	1	37	23.48	23.61	23.81	23.63	23.86	
15	64QAM	1	74	23.40	23.79	23.80	23.63	23.85	
15	64QAM	36	0	22.55	22.75	22.71	22.92	22.77	24
15	64QAM	36	20	22.52	22.82	22.63	22.83	22.77	
15	64QAM	36	39	22.64	22.68	22.59	22.78	22.90	
15	64QAM	75	0	22.53	22.67	22.73	22.80	22.82	
15	256QAM	1	0	20.65	20.79	20.66	20.93	20.78	22
15	256QAM	1	37	20.48	20.66	20.63	20.73	20.78	
15	256QAM	1	74	20.54	20.60	20.52	20.72	20.60	
15	256QAM	36	0	20.72	20.77	20.82	20.78	20.88	22
15	256QAM	36	20	20.68	20.69	20.81	20.74	20.81	
15	256QAM	36	39	20.62	20.63	20.77	20.88	20.65	



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Report No. : FA4N0920C

15	256QAM	75	0	20.49	20.64	20.61	20.81	20.61	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	25.59	25.76	25.78	25.70	25.85	26.60
10	QPSK	1	25	25.51	25.69	25.73	25.62	25.43	
10	QPSK	1	49	25.36	25.62	25.59	25.53	25.81	
10	QPSK	25	0	24.82	24.80	24.83	24.97	24.84	26.6
10	QPSK	25	12	24.59	24.72	24.65	24.89	24.95	
10	QPSK	25	25	24.58	24.90	24.78	24.68	24.85	
10	QPSK	50	0	24.67	24.70	24.83	24.84	24.88	
10	16QAM	1	0	24.72	25.03	25.05	24.93	25.00	26.6
10	16QAM	1	25	24.60	24.92	24.99	24.82	25.02	
10	16QAM	1	49	24.59	25.03	24.97	24.81	24.99	
10	16QAM	25	0	23.61	23.84	23.77	23.97	23.85	25
10	16QAM	25	12	23.66	23.90	23.85	23.73	23.81	
10	16QAM	25	25	23.54	23.82	23.63	23.70	23.81	
10	16QAM	50	0	23.66	23.68	23.81	23.80	23.80	
10	64QAM	1	0	23.56	23.81	23.91	23.93	23.80	25
10	64QAM	1	25	23.48	23.70	23.73	23.76	23.80	
10	64QAM	1	49	23.49	23.82	23.75	23.66	23.73	
10	64QAM	25	0	22.71	22.68	22.73	22.76	22.82	24
10	64QAM	25	12	22.55	22.74	22.79	22.72	22.84	
10	64QAM	25	25	22.51	22.80	22.65	22.63	22.92	
10	64QAM	50	0	22.50	22.76	22.75	22.79	22.78	
10	256QAM	1	0	20.64	20.74	20.72	20.86	20.84	22
10	256QAM	1	25	20.61	20.46	20.53	20.71	20.63	
10	256QAM	1	49	20.56	20.47	20.55	20.65	20.53	
10	256QAM	25	0	20.68	20.81	20.71	20.82	20.83	22
10	256QAM	25	12	20.56	20.70	20.76	20.82	20.70	
10	256QAM	25	25	20.64	20.71	20.68	20.84	20.68	
10	256QAM	50	0	20.56	20.69	20.59	20.67	20.78	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	25.63	25.63	25.83	25.69	25.79	26.60
5	QPSK	1	12	25.36	25.69	25.56	25.56	25.55	
5	QPSK	1	24	25.52	25.68	25.61	25.48	25.74	
5	QPSK	12	0	24.64	24.93	24.74	24.92	24.92	26.6
5	QPSK	12	7	24.65	24.87	24.79	24.95	24.87	
5	QPSK	12	13	24.60	24.76	24.74	24.70	24.85	
5	QPSK	25	0	24.64	24.81	24.70	24.85	24.88	
5	16QAM	1	0	24.63	24.88	24.93	25.07	24.97	26.6
5	16QAM	1	12	24.60	24.93	24.90	24.86	25.00	
5	16QAM	1	24	24.62	24.97	24.88	24.81	25.01	
5	16QAM	12	0	23.68	23.86	23.85	23.94	23.79	25
5	16QAM	12	7	23.59	23.86	23.85	23.79	23.95	
5	16QAM	12	13	23.58	23.72	23.66	23.84	23.96	
5	16QAM	25	0	23.57	23.76	23.73	23.83	23.91	
5	64QAM	1	0	23.65	23.66	23.74	23.90	23.91	25
5	64QAM	1	12	23.46	23.59	23.77	23.74	23.73	
5	64QAM	1	24	23.38	23.85	23.78	23.48	23.85	
5	64QAM	12	0	22.71	22.73	22.77	22.91	22.92	24
5	64QAM	12	7	22.54	22.75	22.72	22.82	22.80	
5	64QAM	12	13	22.66	22.79	22.73	22.62	22.94	
5	64QAM	25	0	22.56	22.65	22.63	22.84	22.88	
5	256QAM	1	0	20.58	20.80	20.78	20.85	20.81	22
5	256QAM	1	12	20.50	20.58	20.65	20.76	20.60	
5	256QAM	1	24	20.53	20.50	20.53	20.63	20.47	
5	256QAM	12	0	20.61	20.80	20.72	20.77	20.87	22
5	256QAM	12	7	20.55	20.67	20.81	20.78	20.82	
5	256QAM	12	13	20.58	20.74	20.62	20.90	20.70	
5	256QAM	25	0	20.63	20.60	20.75	20.82	20.75	

**<LTE Band 41_Ant 2_Index 3>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.10	24.25	24.21	24.35	24.39	25
20	QPSK	1	49	24.10	24.24	24.18	24.33	24.38	
20	QPSK	1	99	24.02	24.16	24.05	24.30	24.34	
20	QPSK	50	0	23.11	23.23	23.20	23.33	23.45	24
20	QPSK	50	24	23.11	23.22	23.18	23.32	23.34	
20	QPSK	50	50	23.10	23.21	23.15	23.30	23.31	
20	QPSK	100	0	23.13	23.24	23.18	23.34	23.36	
20	16QAM	1	0	23.24	23.40	23.32	23.48	23.51	24
20	16QAM	1	49	23.24	23.40	23.29	23.44	23.51	
20	16QAM	1	99	23.14	23.27	23.16	23.30	23.39	
20	16QAM	50	0	22.14	22.27	22.22	22.36	22.39	23
20	16QAM	50	24	22.12	22.25	22.18	22.33	22.37	
20	16QAM	50	50	22.10	22.24	22.15	22.30	22.35	
20	16QAM	100	0	22.15	22.26	22.21	22.36	22.38	
20	64QAM	1	0	21.81	21.96	21.92	22.07	22.10	23
20	64QAM	1	49	21.79	21.90	21.87	22.03	22.07	
20	64QAM	1	99	21.76	21.89	21.80	21.96	22.00	
20	64QAM	50	0	21.20	21.33	21.26	21.44	21.48	22
20	64QAM	50	24	21.17	21.31	21.23	21.35	21.45	
20	64QAM	50	50	21.15	21.30	21.19	21.38	21.42	
20	64QAM	100	0	21.13	21.20	21.19	21.34	21.38	
20	256QAM	1	0	18.92	19.02	19.03	19.18	19.25	20
20	256QAM	1	49	18.79	18.97	19.00	19.10	19.16	
20	256QAM	1	99	18.67	18.78	18.86	18.99	19.00	
20	256QAM	50	0	19.17	19.28	19.36	19.43	19.50	20
20	256QAM	50	24	19.16	19.23	19.27	19.38	19.48	
20	256QAM	50	50	18.99	19.11	19.19	19.25	19.38	
20	256QAM	100	0	19.02	19.10	19.20	19.31	19.40	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	23.95	24.05	24.06	24.17	24.32	25.00
15	QPSK	1	37	24.07	24.11	24.08	24.20	24.33	
15	QPSK	1	74	23.87	23.98	23.93	24.15	24.30	
15	QPSK	36	0	23.10	23.13	23.03	23.19	23.37	24
15	QPSK	36	20	22.99	23.04	22.98	23.24	23.21	
15	QPSK	36	39	22.96	23.09	23.04	23.18	23.20	
15	QPSK	75	0	22.96	23.08	23.07	23.25	23.17	
15	16QAM	1	0	23.22	23.22	23.17	23.28	23.48	24
15	16QAM	1	37	23.05	23.22	23.20	23.32	23.45	
15	16QAM	1	74	23.09	23.20	23.14	23.13	23.34	
15	16QAM	36	0	22.03	22.09	22.12	22.33	22.26	23
15	16QAM	36	20	22.10	22.15	22.04	22.32	22.20	
15	16QAM	36	39	22.00	22.05	21.95	22.20	22.15	
15	16QAM	75	0	22.11	22.14	22.04	22.32	22.19	
15	64QAM	1	0	21.70	21.84	21.85	22.06	21.92	23
15	64QAM	1	37	21.67	21.79	21.74	22.02	21.95	
15	64QAM	1	74	21.57	21.82	21.80	21.76	21.99	
15	64QAM	36	0	21.07	21.20	21.26	21.32	21.37	22
15	64QAM	36	20	21.08	21.15	21.03	21.23	21.42	
15	64QAM	36	39	21.03	21.29	21.00	21.22	21.34	
15	64QAM	75	0	20.96	21.01	21.11	21.27	21.33	
15	256QAM	1	0	18.86	18.90	18.92	19.05	19.18	20
15	256QAM	1	37	18.62	18.82	18.81	19.07	19.11	
15	256QAM	1	74	18.60	18.71	18.82	18.97	18.92	
15	256QAM	36	0	18.99	19.19	19.26	19.37	19.31	20
15	256QAM	36	20	19.07	19.08	19.09	19.33	19.42	
15	256QAM	36	39	18.89	18.91	19.07	19.15	19.18	



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Report No. : FA4N0920C

15	256QAM	75	0	18.83	18.90	19.16	19.28	19.25	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	23.95	24.11	24.10	24.28	24.27	25.00
10	QPSK	1	25	23.94	24.15	24.08	24.23	24.29	
10	QPSK	1	49	23.94	24.03	23.97	24.10	24.15	
10	QPSK	25	0	22.95	23.07	23.04	23.31	23.41	24
10	QPSK	25	12	22.92	23.14	23.03	23.12	23.33	
10	QPSK	25	25	23.05	23.01	22.99	23.20	23.30	
10	QPSK	50	0	23.02	23.14	23.09	23.20	23.29	
10	16QAM	1	0	23.13	23.30	23.17	23.32	23.47	24
10	16QAM	1	25	23.04	23.29	23.25	23.24	23.45	
10	16QAM	1	49	23.08	23.27	23.00	23.24	23.24	
10	16QAM	25	0	21.95	22.22	22.12	22.23	22.24	23
10	16QAM	25	12	22.12	22.17	22.12	22.27	22.17	
10	16QAM	25	25	21.98	22.10	22.14	22.11	22.26	
10	16QAM	50	0	21.95	22.06	22.01	22.18	22.25	
10	64QAM	1	0	21.68	21.82	21.82	21.87	21.94	23
10	64QAM	1	25	21.67	21.72	21.82	21.92	21.90	
10	64QAM	1	49	21.74	21.89	21.61	21.96	21.91	
10	64QAM	25	0	21.10	21.17	21.22	21.30	21.37	22
10	64QAM	25	12	21.09	21.14	21.20	21.21	21.40	
10	64QAM	25	25	21.00	21.30	21.06	21.34	21.32	
10	64QAM	50	0	21.07	21.19	21.00	21.28	21.22	
10	256QAM	1	0	18.78	18.84	18.88	19.17	19.08	20
10	256QAM	1	25	18.61	18.92	18.86	19.00	19.02	
10	256QAM	1	49	18.55	18.72	18.86	18.98	18.84	
10	256QAM	25	0	19.16	19.27	19.36	19.34	19.42	20
10	256QAM	25	12	19.16	19.03	19.13	19.20	19.42	
10	256QAM	25	25	18.79	18.96	19.14	19.16	19.21	
10	256QAM	50	0	18.98	18.94	19.14	19.30	19.33	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	24.09	24.05	24.18	24.16	24.20	25.00
5	QPSK	1	12	24.01	24.23	24.13	24.18	24.33	
5	QPSK	1	24	23.86	23.98	24.05	24.18	24.16	
5	QPSK	12	0	23.11	23.19	23.01	23.17	23.36	24
5	QPSK	12	7	22.91	23.14	23.03	23.22	23.27	
5	QPSK	12	13	23.07	23.05	22.99	23.22	23.19	
5	QPSK	25	0	23.11	23.07	23.02	23.22	23.25	
5	16QAM	1	0	23.12	23.34	23.23	23.31	23.49	24
5	16QAM	1	12	23.16	23.29	23.21	23.28	23.33	
5	16QAM	1	24	22.94	23.15	22.99	23.13	23.37	
5	16QAM	12	0	22.08	22.10	22.12	22.34	22.37	23
5	16QAM	12	7	21.96	22.10	22.00	22.22	22.24	
5	16QAM	12	13	21.99	22.23	22.07	22.20	22.16	
5	16QAM	25	0	22.13	22.11	22.16	22.22	22.25	
5	64QAM	1	0	21.75	21.86	21.75	21.87	21.92	23
5	64QAM	1	12	21.63	21.82	21.73	21.98	21.88	
5	64QAM	1	24	21.65	21.85	21.80	21.80	22.00	
5	64QAM	12	0	21.18	21.23	21.07	21.34	21.38	22
5	64QAM	12	7	21.04	21.21	21.06	21.34	21.30	
5	64QAM	12	13	21.05	21.21	21.19	21.32	21.38	
5	64QAM	25	0	21.05	21.13	21.08	21.34	21.28	
5	256QAM	1	0	18.79	18.93	18.84	19.18	19.21	20
5	256QAM	1	12	18.66	18.92	18.84	18.96	19.01	
5	256QAM	1	24	18.55	18.67	18.67	18.82	18.95	
5	256QAM	12	0	18.97	19.08	19.22	19.26	19.43	20
5	256QAM	12	7	19.07	19.18	19.19	19.26	19.29	
5	256QAM	12	13	18.80	19.01	19.19	19.06	19.19	
5	256QAM	25	0	18.90	19.01	19.07	19.25	19.22	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	22.93	22.81	22.87	23.07	23.06	23.5
20	QPSK	1	49	22.91	22.73	22.83	23.00	23.05	
20	QPSK	1	99	22.90	22.64	22.66	22.81	23.03	
20	QPSK	50	0	22.86	22.65	22.68	23.03	23.01	23.5
20	QPSK	50	24	22.77	22.61	22.64	22.92	22.98	
20	QPSK	50	50	22.72	22.60	22.64	22.92	22.93	
20	QPSK	100	0	22.74	22.57	22.55	22.96	22.98	
20	16QAM	1	0	22.74	22.68	22.71	23.00	22.92	23.5
20	16QAM	1	49	22.77	22.80	22.80	23.01	22.98	
20	16QAM	1	99	22.66	22.58	22.61	22.94	22.97	
20	16QAM	50	0	22.53	22.19	22.44	22.63	22.70	23
20	16QAM	50	24	22.46	22.28	22.31	22.55	22.60	
20	16QAM	50	50	22.43	22.28	22.20	22.57	22.68	
20	16QAM	100	0	22.44	22.23	22.32	22.60	22.70	
20	64QAM	1	0	22.13	21.96	22.11	22.32	22.44	23
20	64QAM	1	49	22.23	22.01	22.17	22.32	22.59	
20	64QAM	1	99	21.99	21.83	21.88	22.19	22.22	
20	64QAM	50	0	21.51	21.21	21.39	21.60	21.73	22
20	64QAM	50	24	21.43	21.18	21.34	21.53	21.63	
20	64QAM	50	50	21.42	21.17	21.23	21.55	21.52	
20	64QAM	100	0	21.44	21.24	21.28	21.49	21.56	
20	256QAM	1	0	19.02	18.92	18.96	19.32	19.42	20
20	256QAM	1	49	18.89	18.83	18.92	19.29	19.31	
20	256QAM	1	99	18.86	18.73	18.94	19.12	19.14	
20	256QAM	50	0	19.21	19.19	19.30	19.50	19.59	20
20	256QAM	50	24	19.26	18.94	19.29	19.55	19.44	
20	256QAM	50	50	19.12	19.04	19.21	19.46	19.46	
20	256QAM	100	0	19.28	19.11	19.09	19.51	19.53	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.73	22.57	22.79	22.88	22.99	23.50
15	QPSK	1	37	22.86	22.51	22.78	22.85	22.91	
15	QPSK	1	74	22.79	22.52	22.47	22.75	22.97	
15	QPSK	36	0	22.72	22.46	22.57	22.87	22.81	23.5
15	QPSK	36	20	22.61	22.52	22.59	22.69	22.90	
15	QPSK	36	39	22.58	22.48	22.52	22.80	22.78	
15	QPSK	75	0	22.49	22.35	22.41	22.83	22.76	
15	16QAM	1	0	22.58	22.52	22.53	22.79	22.73	23.5
15	16QAM	1	37	22.59	22.62	22.69	22.91	22.83	
15	16QAM	1	74	22.59	22.43	22.39	22.75	22.74	
15	16QAM	36	0	22.45	22.03	22.22	22.50	22.58	23
15	16QAM	36	20	22.34	22.08	22.11	22.33	22.49	
15	16QAM	36	39	22.33	22.23	22.00	22.33	22.57	
15	16QAM	75	0	22.27	22.00	22.08	22.36	22.62	
15	64QAM	1	0	21.91	21.79	21.86	22.09	22.32	23
15	64QAM	1	37	22.11	21.93	22.07	22.26	22.44	
15	64QAM	1	74	21.88	21.69	21.74	22.06	22.15	
15	64QAM	36	0	21.26	21.16	21.31	21.38	21.48	22
15	64QAM	36	20	21.35	21.00	21.24	21.35	21.47	
15	64QAM	36	39	21.33	21.10	21.02	21.32	21.40	
15	64QAM	75	0	21.19	21.15	21.17	21.36	21.46	
15	256QAM	1	0	18.85	18.81	18.90	19.13	19.17	20
15	256QAM	1	37	18.70	18.74	18.80	19.08	19.13	
15	256QAM	1	74	18.77	18.61	18.87	18.93	18.91	
15	256QAM	36	0	19.00	18.99	19.24	19.39	19.49	20
15	256QAM	36	20	19.09	18.82	19.18	19.36	19.25	
15	256QAM	36	39	19.00	18.92	18.96	19.25	19.36	



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15	256QAM	75	0	19.04	19.03	18.98	19.40	19.37	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	22.76	22.72	22.77	22.82	23.00	23.50
10	QPSK	1	25	22.70	22.49	22.69	22.81	22.85	
10	QPSK	1	49	22.83	22.39	22.43	22.67	22.87	
10	QPSK	25	0	22.79	22.47	22.50	22.97	22.76	23.5
10	QPSK	25	12	22.52	22.43	22.42	22.75	22.93	
10	QPSK	25	25	22.52	22.50	22.51	22.71	22.68	
10	QPSK	50	0	22.64	22.41	22.46	22.78	22.80	
10	16QAM	1	0	22.67	22.58	22.64	22.92	22.80	23.5
10	16QAM	1	25	22.55	22.61	22.57	22.78	22.81	
10	16QAM	1	49	22.42	22.47	22.56	22.71	22.72	
10	16QAM	25	0	22.36	22.11	22.33	22.51	22.47	23
10	16QAM	25	12	22.34	22.06	22.14	22.41	22.37	
10	16QAM	25	25	22.28	22.13	22.02	22.48	22.60	
10	16QAM	50	0	22.31	22.15	22.26	22.54	22.50	
10	64QAM	1	0	22.08	21.79	21.96	22.09	22.35	23
10	64QAM	1	25	22.07	21.94	21.97	22.16	22.43	
10	64QAM	1	49	21.84	21.75	21.81	22.07	22.05	
10	64QAM	25	0	21.29	21.07	21.26	21.52	21.53	22
10	64QAM	25	12	21.24	21.10	21.14	21.47	21.53	
10	64QAM	25	25	21.20	20.93	21.10	21.39	21.27	
10	64QAM	50	0	21.30	21.19	21.16	21.42	21.38	
10	256QAM	1	0	18.93	18.75	18.83	19.08	19.32	20
10	256QAM	1	25	18.79	18.78	18.81	19.22	19.24	
10	256QAM	1	49	18.74	18.66	18.88	19.01	18.89	
10	256QAM	25	0	19.07	18.94	19.18	19.26	19.50	20
10	256QAM	25	12	19.15	18.86	19.14	19.42	19.33	
10	256QAM	25	25	18.90	18.83	19.16	19.33	19.23	
10	256QAM	50	0	19.15	19.02	18.86	19.40	19.45	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	22.84	22.58	22.78	22.91	22.88	23.50
5	QPSK	1	12	22.69	22.49	22.67	22.87	22.85	
5	QPSK	1	24	22.79	22.58	22.49	22.63	22.83	
5	QPSK	12	0	22.71	22.52	22.44	22.87	22.82	23.5
5	QPSK	12	7	22.70	22.50	22.55	22.68	22.84	
5	QPSK	12	13	22.55	22.44	22.50	22.83	22.79	
5	QPSK	25	0	22.53	22.33	22.46	22.84	22.80	
5	16QAM	1	0	22.67	22.61	22.56	22.76	22.68	23.5
5	16QAM	1	12	22.69	22.69	22.64	22.77	22.89	
5	16QAM	1	24	22.61	22.33	22.43	22.89	22.87	
5	16QAM	12	0	22.40	21.95	22.21	22.51	22.59	23
5	16QAM	12	7	22.26	22.20	22.10	22.50	22.50	
5	16QAM	12	13	22.30	22.11	22.13	22.33	22.54	
5	16QAM	25	0	22.33	22.15	22.23	22.50	22.49	
5	64QAM	1	0	22.01	21.82	22.01	22.08	22.31	23
5	64QAM	1	12	22.01	21.90	22.07	22.24	22.39	
5	64QAM	1	24	21.91	21.73	21.81	22.06	22.01	
5	64QAM	12	0	21.43	20.99	21.20	21.50	21.54	22
5	64QAM	12	7	21.26	20.97	21.18	21.41	21.56	
5	64QAM	12	13	21.22	20.98	21.03	21.41	21.31	
5	64QAM	25	0	21.24	21.01	21.05	21.24	21.38	
5	256QAM	1	0	18.85	18.72	18.83	19.20	19.28	20
5	256QAM	1	12	18.70	18.62	18.83	19.07	19.14	
5	256QAM	1	24	18.72	18.68	18.88	19.00	19.01	
5	256QAM	12	0	19.15	18.99	19.09	19.27	19.38	20
5	256QAM	12	7	19.11	18.75	19.12	19.46	19.35	
5	256QAM	12	13	19.05	18.88	19.09	19.35	19.29	
5	256QAM	25	0	19.07	18.91	18.94	19.45	19.32	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.09	24.22	24.24	24.25	24.55	25
20	QPSK	1	49	23.94	24.31	24.21	23.98	24.54	
20	QPSK	1	99	23.93	24.25	24.03	23.97	24.44	
20	QPSK	50	0	23.08	23.19	23.19	23.18	23.50	24
20	QPSK	50	24	23.03	23.18	23.14	23.10	23.42	
20	QPSK	50	50	23.00	23.18	23.08	23.07	23.44	
20	QPSK	100	0	23.02	23.14	23.18	23.08	23.43	
20	16QAM	1	0	23.13	23.21	23.34	23.25	23.49	24
20	16QAM	1	49	23.01	23.18	23.21	23.08	23.42	
20	16QAM	1	99	23.00	23.25	23.11	23.03	23.43	
20	16QAM	50	0	22.09	22.18	22.24	22.15	22.43	23
20	16QAM	50	24	22.05	22.20	22.20	22.10	22.43	
20	16QAM	50	50	22.02	22.21	22.14	22.06	22.42	
20	16QAM	100	0	22.03	22.17	22.19	22.09	22.42	
20	64QAM	1	0	21.73	21.91	21.89	21.89	22.18	23
20	64QAM	1	49	21.74	21.82	21.83	21.82	22.13	
20	64QAM	1	99	21.70	21.92	21.65	21.74	22.05	
20	64QAM	50	0	21.07	21.21	21.18	21.11	21.48	22
20	64QAM	50	24	21.03	21.24	21.12	21.12	21.38	
20	64QAM	50	50	21.01	21.23	21.06	21.08	21.45	
20	64QAM	100	0	21.05	21.22	21.11	21.11	21.48	
20	256QAM	1	0	18.86	18.90	19.04	18.95	19.26	20
20	256QAM	1	49	18.66	18.72	18.86	18.68	19.05	
20	256QAM	1	99	18.53	18.59	18.75	18.61	18.96	
20	256QAM	50	0	18.94	19.01	19.16	19.06	19.28	20
20	256QAM	50	24	18.90	18.99	19.13	18.99	19.35	
20	256QAM	50	50	18.86	18.85	19.06	18.96	19.20	
20	256QAM	100	0	18.86	18.86	19.05	18.90	19.24	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	23.96	24.11	24.23	24.24	24.51	25.00
15	QPSK	1	37	23.79	24.15	24.02	23.97	24.35	
15	QPSK	1	74	23.83	24.05	23.98	23.78	24.38	
15	QPSK	36	0	22.99	23.02	23.11	23.04	23.36	24
15	QPSK	36	20	22.89	23.02	23.13	22.98	23.27	
15	QPSK	36	39	22.82	23.11	22.89	23.07	23.38	
15	QPSK	75	0	22.88	23.09	23.14	23.06	23.32	
15	16QAM	1	0	22.93	23.14	23.33	23.16	23.45	24
15	16QAM	1	37	22.98	23.01	23.07	23.01	23.22	
15	16QAM	1	74	22.92	23.11	22.98	22.99	23.25	
15	16QAM	36	0	22.06	22.02	22.08	22.15	22.41	23
15	16QAM	36	20	21.99	22.20	22.15	22.06	22.43	
15	16QAM	36	39	21.84	22.10	22.00	21.93	22.22	
15	16QAM	75	0	21.91	22.09	22.10	22.03	22.28	
15	64QAM	1	0	21.73	21.86	21.87	21.76	22.07	23
15	64QAM	1	37	21.56	21.72	21.67	21.71	22.03	
15	64QAM	1	74	21.59	21.85	21.48	21.57	21.95	
15	64QAM	36	0	20.97	21.14	21.06	21.01	21.42	22
15	64QAM	36	20	21.00	21.23	21.04	21.08	21.24	
15	64QAM	36	39	20.84	21.09	20.90	21.08	21.27	
15	64QAM	75	0	20.88	21.05	21.07	21.09	21.30	
15	256QAM	1	0	18.75	18.85	18.87	18.86	19.14	20
15	256QAM	1	37	18.49	18.54	18.70	18.66	19.00	
15	256QAM	1	74	18.34	18.45	18.60	18.55	18.85	
15	256QAM	36	0	18.74	19.01	18.96	19.00	19.16	20
15	256QAM	36	20	18.73	18.83	19.13	18.98	19.25	
15	256QAM	36	39	18.77	18.67	19.06	18.80	19.03	



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Report No. : FA4N0920C

15	256QAM	75	0	18.78	18.72	18.92	18.71	19.23	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	23.92	24.13	24.18	24.11	24.52	25.00
10	QPSK	1	25	23.90	24.27	24.16	23.90	24.41	
10	QPSK	1	49	23.82	24.24	23.90	23.93	24.24	
10	QPSK	25	0	23.07	23.13	23.03	23.18	23.36	24
10	QPSK	25	12	22.94	23.09	23.04	23.06	23.40	
10	QPSK	25	25	22.90	23.00	23.03	22.91	23.30	
10	QPSK	50	0	23.01	23.01	23.15	23.06	23.25	
10	16QAM	1	0	23.02	23.02	23.27	23.18	23.48	24
10	16QAM	1	25	22.99	23.12	23.13	22.92	23.29	
10	16QAM	1	49	22.98	23.14	23.05	22.86	23.32	
10	16QAM	25	0	21.93	22.01	22.05	21.97	22.26	23
10	16QAM	25	12	21.94	22.08	22.11	22.06	22.27	
10	16QAM	25	25	21.83	22.10	22.07	22.02	22.28	
10	16QAM	50	0	22.00	22.07	22.19	22.00	22.29	
10	64QAM	1	0	21.57	21.79	21.73	21.73	22.13	23
10	64QAM	1	25	21.68	21.74	21.83	21.73	21.97	
10	64QAM	1	49	21.68	21.92	21.55	21.63	21.98	
10	64QAM	25	0	20.88	21.05	21.08	21.06	21.39	22
10	64QAM	25	12	20.86	21.17	20.93	20.97	21.20	
10	64QAM	25	25	20.89	21.05	20.97	20.98	21.25	
10	64QAM	50	0	20.94	21.13	21.05	20.96	21.40	
10	256QAM	1	0	18.76	18.76	19.00	18.87	19.10	20
10	256QAM	1	25	18.50	18.62	18.84	18.50	18.85	
10	256QAM	1	49	18.51	18.49	18.59	18.47	18.80	
10	256QAM	25	0	18.94	18.95	19.05	18.98	19.27	20
10	256QAM	25	12	18.86	18.92	18.99	18.96	19.23	
10	256QAM	25	25	18.84	18.78	19.03	18.92	19.06	
10	256QAM	50	0	18.72	18.78	18.98	18.88	19.08	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	24.05	24.11	24.14	24.21	24.39	25.00
5	QPSK	1	12	23.91	24.13	24.18	23.80	24.46	
5	QPSK	1	24	23.92	24.16	23.85	23.96	24.35	
5	QPSK	12	0	22.91	23.15	23.10	23.08	23.42	24
5	QPSK	12	7	22.94	23.14	23.14	23.09	23.40	
5	QPSK	12	13	22.84	23.17	22.89	23.00	23.33	
5	QPSK	25	0	22.97	23.06	23.08	22.99	23.29	
5	16QAM	1	0	23.04	23.21	23.34	23.21	23.35	24
5	16QAM	1	12	22.96	22.99	23.04	23.02	23.29	
5	16QAM	1	24	22.92	23.21	22.96	22.88	23.27	
5	16QAM	12	0	21.94	22.14	22.24	22.09	22.32	23
5	16QAM	12	7	22.03	22.01	22.15	21.99	22.35	
5	16QAM	12	13	21.97	22.17	22.07	21.97	22.36	
5	16QAM	25	0	21.91	22.15	22.06	21.89	22.40	
5	64QAM	1	0	21.73	21.83	21.83	21.81	22.16	23
5	64QAM	1	12	21.69	21.66	21.83	21.69	22.02	
5	64QAM	1	24	21.70	21.78	21.58	21.55	21.98	
5	64QAM	12	0	20.95	21.19	21.15	21.10	21.31	22
5	64QAM	12	7	20.83	21.05	21.11	21.11	21.23	
5	64QAM	12	13	20.86	21.03	20.93	20.96	21.31	
5	64QAM	25	0	21.00	21.17	21.03	20.93	21.45	
5	256QAM	1	0	18.69	18.90	18.92	18.76	19.19	20
5	256QAM	1	12	18.54	18.60	18.75	18.58	18.96	
5	256QAM	1	24	18.48	18.58	18.71	18.46	18.95	
5	256QAM	12	0	18.92	18.92	19.03	18.92	19.14	20
5	256QAM	12	7	18.86	18.81	18.93	18.99	19.27	
5	256QAM	12	13	18.69	18.68	18.87	18.92	19.00	
5	256QAM	25	0	18.67	18.70	18.86	18.90	19.05	



<LTE Band 41_Ant 5_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.83	24.00	23.92	24.09	24.16	24.2
20	QPSK	1	49	23.82	24.05	23.92	24.02	24.09	
20	QPSK	1	99	23.74	23.97	23.81	23.90	24.04	
20	QPSK	50	0	22.82	22.95	22.90	23.01	23.09	24
20	QPSK	50	24	22.80	22.96	22.87	23.00	23.09	
20	QPSK	50	50	22.76	22.92	22.82	22.93	23.08	
20	QPSK	100	0	22.80	22.86	22.88	22.90	23.00	24
20	16QAM	1	0	22.85	23.02	23.04	23.13	23.12	
20	16QAM	1	49	22.70	22.92	22.88	22.93	22.96	
20	16QAM	1	99	22.70	22.98	22.90	22.84	23.00	23
20	16QAM	50	0	21.81	21.93	21.94	21.99	22.00	
20	16QAM	50	24	21.77	21.93	21.92	21.93	21.98	
20	16QAM	50	50	21.73	21.93	21.87	21.87	21.99	23
20	16QAM	100	0	21.76	21.92	21.91	21.92	21.98	
20	64QAM	1	0	21.51	21.69	21.59	21.74	21.79	
20	64QAM	1	49	21.47	21.71	21.53	21.66	21.74	22
20	64QAM	1	99	21.41	21.61	21.45	21.52	21.68	
20	64QAM	50	0	20.81	20.97	20.88	21.02	21.05	
20	64QAM	50	24	20.78	20.95	20.83	20.95	21.03	20
20	64QAM	50	50	20.75	20.93	20.83	20.91	21.00	
20	64QAM	100	0	20.80	20.95	20.83	20.95	21.03	
20	256QAM	1	0	18.67	18.80	18.69	18.87	18.83	20
20	256QAM	1	49	18.49	18.70	18.60	18.75	18.73	
20	256QAM	1	99	18.47	18.61	18.55	18.69	18.64	
20	256QAM	50	0	18.83	18.89	18.88	19.05	19.00	20
20	256QAM	50	24	18.76	18.97	18.86	19.04	18.93	
20	256QAM	50	50	18.78	18.96	18.85	19.03	18.93	
20	256QAM	100	0	18.74	18.89	18.84	19.00	18.91	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	23.75	23.93	23.78	23.89	24.00	24.20
15	QPSK	1	37	23.66	23.85	23.89	24.00	24.03	
15	QPSK	1	74	23.56	23.87	23.73	23.82	24.01	
15	QPSK	36	0	22.78	22.88	22.76	22.83	23.03	24
15	QPSK	36	20	22.69	22.80	22.75	22.90	23.08	
15	QPSK	36	39	22.61	22.90	22.70	22.92	22.88	
15	QPSK	75	0	22.73	22.85	22.86	22.89	22.90	24
15	16QAM	1	0	22.65	22.93	22.94	23.02	22.93	
15	16QAM	1	37	22.65	22.82	22.78	22.91	22.77	
15	16QAM	1	74	22.58	22.87	22.85	22.75	23.00	23
15	16QAM	36	0	21.73	21.79	21.92	21.92	21.90	
15	16QAM	36	20	21.70	21.77	21.81	21.73	21.78	
15	16QAM	36	39	21.60	21.92	21.67	21.79	21.88	23
15	16QAM	75	0	21.71	21.90	21.77	21.79	21.78	
15	64QAM	1	0	21.33	21.56	21.54	21.69	21.62	
15	64QAM	1	37	21.28	21.59	21.43	21.61	21.57	22
15	64QAM	1	74	21.32	21.56	21.36	21.39	21.63	
15	64QAM	36	0	20.74	20.80	20.71	20.98	21.04	
15	64QAM	36	20	20.76	20.91	20.76	20.81	20.90	20
15	64QAM	36	39	20.65	20.75	20.82	20.82	20.94	
15	64QAM	75	0	20.70	20.77	20.74	20.87	20.87	
15	256QAM	1	0	18.59	18.66	18.50	18.72	18.82	20
15	256QAM	1	37	18.44	18.67	18.59	18.75	18.54	
15	256QAM	1	74	18.40	18.56	18.51	18.62	18.63	
15	256QAM	36	0	18.81	18.86	18.88	18.97	19.00	20
15	256QAM	36	20	18.62	18.88	18.77	18.91	18.90	
15	256QAM	36	39	18.64	18.83	18.70	18.87	18.81	



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Report No. : FA4N0920C

15	256QAM	75	0	18.73	18.87	18.65	18.86	18.88	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	23.70	24.00	23.91	23.91	23.99	24.20
10	QPSK	1	25	23.63	23.99	23.81	23.82	23.97	
10	QPSK	1	49	23.61	23.87	23.81	23.76	23.97	
10	QPSK	25	0	22.72	22.80	22.73	22.88	22.96	24
10	QPSK	25	12	22.64	22.80	22.71	22.98	23.06	
10	QPSK	25	25	22.68	22.84	22.73	22.76	23.02	
10	QPSK	50	0	22.76	22.73	22.81	22.83	22.89	
10	16QAM	1	0	22.84	22.88	22.86	23.00	22.99	24
10	16QAM	1	25	22.66	22.79	22.72	22.84	22.83	
10	16QAM	1	49	22.62	22.86	22.84	22.80	22.87	
10	16QAM	25	0	21.73	21.82	21.75	21.93	21.97	23
10	16QAM	25	12	21.75	21.88	21.73	21.84	21.92	
10	16QAM	25	25	21.54	21.73	21.72	21.74	21.86	
10	16QAM	50	0	21.57	21.87	21.77	21.91	21.88	
10	64QAM	1	0	21.35	21.58	21.43	21.59	21.67	23
10	64QAM	1	25	21.44	21.69	21.45	21.63	21.71	
10	64QAM	1	49	21.26	21.59	21.25	21.46	21.55	
10	64QAM	25	0	20.68	20.92	20.69	20.85	20.90	22
10	64QAM	25	12	20.78	20.82	20.80	20.80	20.87	
10	64QAM	25	25	20.55	20.80	20.76	20.80	20.98	
10	64QAM	50	0	20.72	20.92	20.66	20.94	20.89	
10	256QAM	1	0	18.63	18.75	18.53	18.84	18.81	20
10	256QAM	1	25	18.29	18.61	18.56	18.60	18.64	
10	256QAM	1	49	18.40	18.54	18.44	18.57	18.44	
10	256QAM	25	0	18.69	18.76	18.84	18.93	18.90	20
10	256QAM	25	12	18.62	18.95	18.69	18.95	18.75	
10	256QAM	25	25	18.66	18.89	18.79	19.00	18.74	
10	256QAM	50	0	18.57	18.85	18.80	18.98	18.78	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	23.76	23.92	23.84	23.94	24.09	24.20
5	QPSK	1	12	23.69	23.88	23.79	23.97	23.98	
5	QPSK	1	24	23.61	23.86	23.79	23.72	23.87	
5	QPSK	12	0	22.63	22.83	22.88	22.97	22.98	24
5	QPSK	12	7	22.77	22.91	22.86	22.87	23.02	
5	QPSK	12	13	22.75	22.86	22.82	22.78	23.07	
5	QPSK	25	0	22.60	22.76	22.86	22.88	22.85	
5	16QAM	1	0	22.83	22.97	22.95	22.94	22.96	24
5	16QAM	1	12	22.59	22.91	22.70	22.93	22.85	
5	16QAM	1	24	22.56	22.93	22.79	22.77	22.90	
5	16QAM	12	0	21.65	21.78	21.79	21.79	21.94	23
5	16QAM	12	7	21.74	21.78	21.85	21.86	21.94	
5	16QAM	12	13	21.66	21.83	21.82	21.86	21.91	
5	16QAM	25	0	21.63	21.85	21.81	21.74	21.97	
5	64QAM	1	0	21.50	21.56	21.59	21.62	21.71	23
5	64QAM	1	12	21.33	21.61	21.35	21.47	21.61	
5	64QAM	1	24	21.30	21.57	21.37	21.42	21.61	
5	64QAM	12	0	20.62	20.96	20.77	20.85	21.00	22
5	64QAM	12	7	20.74	20.84	20.79	20.89	20.90	
5	64QAM	12	13	20.67	20.92	20.75	20.72	20.94	
5	64QAM	25	0	20.77	20.91	20.69	20.86	20.89	
5	256QAM	1	0	18.47	18.65	18.59	18.68	18.74	20
5	256QAM	1	12	18.40	18.53	18.47	18.64	18.72	
5	256QAM	1	24	18.47	18.42	18.45	18.64	18.47	
5	256QAM	12	0	18.79	18.81	18.83	19.05	18.98	20
5	256QAM	12	7	18.64	18.83	18.81	18.96	18.74	
5	256QAM	12	13	18.69	18.89	18.82	18.90	18.90	
5	256QAM	25	0	18.71	18.77	18.67	18.97	18.85	

**<LTE Band 41_HPUE_Ant 2_Index 3>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.75	25.97	25.99	26.10	26.11	27
20	QPSK	1	49	25.72	25.88	25.86	25.96	25.98	
20	QPSK	1	99	25.81	25.91	25.87	25.96	25.95	
20	QPSK	50	0	25.10	25.17	25.10	25.27	25.32	26
20	QPSK	50	24	25.08	25.17	25.03	25.23	25.26	
20	QPSK	50	50	25.05	25.15	24.98	25.21	25.18	
20	QPSK	100	0	25.07	25.15	25.02	25.25	25.26	
20	16QAM	1	0	25.08	25.34	25.35	25.46	25.43	26
20	16QAM	1	49	25.04	25.22	25.20	25.28	25.34	
20	16QAM	1	99	25.15	25.28	25.23	25.25	25.31	
20	16QAM	50	0	24.06	24.19	24.12	24.28	24.32	25
20	16QAM	50	24	24.05	24.17	24.07	24.24	24.28	
20	16QAM	50	50	24.05	24.15	24.03	24.20	24.23	
20	16QAM	100	0	24.04	24.14	24.04	24.24	24.25	
20	64QAM	1	0	23.95	24.17	24.10	24.26	24.25	25
20	64QAM	1	49	23.88	24.05	23.99	24.08	24.18	
20	64QAM	1	99	23.93	24.05	23.96	24.04	24.11	
20	64QAM	50	0	22.98	23.11	23.05	23.17	23.23	24
20	64QAM	50	24	22.97	23.09	22.99	23.13	23.19	
20	64QAM	50	50	22.94	23.08	22.96	23.14	23.15	
20	64QAM	100	0	22.96	23.09	22.99	23.16	23.18	
20	256QAM	1	0	21.05	21.18	21.10	21.28	21.32	22
20	256QAM	1	49	20.90	20.96	20.95	21.12	21.14	
20	256QAM	1	99	20.83	20.89	20.90	21.00	21.11	
20	256QAM	50	0	21.03	21.24	21.16	21.30	21.30	22
20	256QAM	50	24	20.96	21.13	21.10	21.21	21.27	
20	256QAM	50	50	20.95	21.09	21.01	21.09	21.21	
20	256QAM	100	0	20.94	21.13	21.05	21.14	21.19	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	25.66	25.82	25.91	26.08	25.99	27.00
15	QPSK	1	37	25.53	25.69	25.77	25.85	25.86	
15	QPSK	1	74	25.71	25.75	25.74	25.96	25.93	
15	QPSK	36	0	24.96	25.07	25.00	25.22	25.26	26
15	QPSK	36	20	24.91	25.12	24.99	25.05	25.08	
15	QPSK	36	39	24.91	25.15	24.97	25.15	25.13	
15	QPSK	75	0	24.92	25.15	24.96	25.25	25.11	
15	16QAM	1	0	24.97	25.27	25.30	25.32	25.31	26
15	16QAM	1	37	24.90	25.09	25.11	25.16	25.23	
15	16QAM	1	74	24.96	25.28	25.23	25.18	25.14	
15	16QAM	36	0	23.94	24.17	24.03	24.18	24.16	25
15	16QAM	36	20	23.93	23.97	23.90	24.13	24.16	
15	16QAM	36	39	23.88	24.07	23.91	24.20	24.23	
15	16QAM	75	0	24.01	24.05	23.86	24.21	24.18	
15	64QAM	1	0	23.93	24.09	23.98	24.09	24.14	25
15	64QAM	1	37	23.72	23.85	23.89	23.95	24.11	
15	64QAM	1	74	23.93	23.96	23.84	23.94	24.08	
15	64QAM	36	0	22.93	23.08	22.91	23.01	23.12	24
15	64QAM	36	20	22.79	23.02	22.88	23.09	23.17	
15	64QAM	36	39	22.90	22.99	22.86	22.94	23.00	
15	64QAM	75	0	22.85	23.01	22.98	23.04	23.11	
15	256QAM	1	0	20.98	21.03	21.10	21.23	21.14	22
15	256QAM	1	37	20.75	20.87	20.94	21.06	20.99	
15	256QAM	1	74	20.70	20.88	20.87	20.92	21.02	
15	256QAM	36	0	20.87	21.13	21.14	21.18	21.16	22
15	256QAM	36	20	20.93	20.96	20.99	21.20	21.19	
15	256QAM	36	39	20.79	21.01	21.01	20.97	21.08	



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Report No. : FA4N0920C

15	256QAM	75	0	20.89	21.09	20.89	21.08	21.16	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	25.56	25.82	25.98	25.96	25.97	27.00
10	QPSK	1	25	25.52	25.68	25.76	25.87	25.84	
10	QPSK	1	49	25.74	25.73	25.81	25.82	25.88	
10	QPSK	25	0	25.08	25.10	24.98	25.11	25.30	26
10	QPSK	25	12	25.05	25.00	25.00	25.16	25.24	
10	QPSK	25	25	24.92	24.95	24.90	25.04	25.01	
10	QPSK	50	0	25.02	25.15	24.91	25.25	25.23	
10	16QAM	1	0	24.99	25.26	25.28	25.29	25.43	26
10	16QAM	1	25	24.88	25.21	25.03	25.22	25.26	
10	16QAM	1	49	25.11	25.20	25.09	25.23	25.26	
10	16QAM	25	0	23.87	24.16	23.96	24.18	24.25	25
10	16QAM	25	12	24.05	24.02	23.93	24.12	24.20	
10	16QAM	25	25	23.91	23.95	23.84	24.07	24.19	
10	16QAM	50	0	23.97	24.05	23.89	24.04	24.14	
10	64QAM	1	0	23.95	24.10	24.00	24.17	24.24	25
10	64QAM	1	25	23.86	24.04	23.97	24.01	24.10	
10	64QAM	1	49	23.80	23.91	23.94	23.99	23.97	
10	64QAM	25	0	22.81	22.94	23.04	23.01	23.05	24
10	64QAM	25	12	22.96	23.01	22.81	22.97	23.13	
10	64QAM	25	25	22.85	22.90	22.93	22.98	23.12	
10	64QAM	50	0	22.92	22.90	22.98	23.00	23.18	
10	256QAM	1	0	20.87	21.18	20.97	21.23	21.24	22
10	256QAM	1	25	20.73	20.81	20.85	21.09	20.95	
10	256QAM	1	49	20.77	20.80	20.72	20.85	20.96	
10	256QAM	25	0	20.91	21.16	21.05	21.18	21.29	22
10	256QAM	25	12	20.80	20.97	21.06	21.20	21.21	
10	256QAM	25	25	20.90	21.08	20.91	21.04	21.13	
10	256QAM	50	0	20.82	21.02	21.00	21.14	21.06	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	25.68	25.78	25.81	25.95	25.91	27.00
5	QPSK	1	12	25.59	25.84	25.81	25.83	25.87	
5	QPSK	1	24	25.80	25.86	25.81	25.89	25.90	
5	QPSK	12	0	25.02	25.03	25.05	25.16	25.21	26
5	QPSK	12	7	24.90	24.99	24.91	25.22	25.12	
5	QPSK	12	13	25.03	24.99	24.86	25.11	25.15	
5	QPSK	25	0	24.97	25.11	25.02	25.16	25.07	
5	16QAM	1	0	24.90	25.24	25.23	25.28	25.25	26
5	16QAM	1	12	24.88	25.21	25.13	25.20	25.18	
5	16QAM	1	24	25.06	25.08	25.04	25.12	25.27	
5	16QAM	12	0	24.05	24.10	23.97	24.16	24.13	25
5	16QAM	12	7	23.91	24.01	23.95	24.24	24.23	
5	16QAM	12	13	23.99	23.96	23.91	24.01	24.10	
5	16QAM	25	0	23.98	24.01	23.84	24.11	24.11	
5	64QAM	1	0	23.78	24.17	24.08	24.08	24.09	25
5	64QAM	1	12	23.82	23.96	23.91	24.01	24.01	
5	64QAM	1	24	23.81	23.85	23.94	23.90	24.09	
5	64QAM	12	0	22.80	22.91	22.96	23.12	23.14	24
5	64QAM	12	7	22.93	23.01	22.92	22.93	23.07	
5	64QAM	12	13	22.82	22.94	22.78	23.00	23.11	
5	64QAM	25	0	22.85	22.96	22.79	23.07	23.07	
5	256QAM	1	0	20.85	21.06	20.98	21.10	21.20	22
5	256QAM	1	12	20.70	20.80	20.90	21.06	20.99	
5	256QAM	1	24	20.78	20.85	20.73	20.93	20.91	
5	256QAM	12	0	21.00	21.19	21.10	21.12	21.10	22
5	256QAM	12	7	20.89	21.03	21.00	21.06	21.25	
5	256QAM	12	13	20.93	20.90	20.84	21.02	21.06	
5	256QAM	25	0	20.82	20.94	20.95	21.13	21.10	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.50	24.32	24.34	24.61	24.56	25.2
20	QPSK	1	49	24.49	24.30	24.39	24.60	24.60	
20	QPSK	1	99	24.35	24.18	24.21	24.58	24.47	
20	QPSK	50	0	24.00	24.00	24.08	24.28	24.18	25.2
20	QPSK	50	24	23.97	24.00	24.00	24.24	24.12	
20	QPSK	50	50	23.93	23.97	23.97	24.21	24.09	
20	QPSK	100	0	23.94	23.94	24.01	24.21	24.11	
20	16QAM	1	0	23.96	24.05	23.91	24.38	24.22	25.2
20	16QAM	1	49	23.99	24.03	23.86	24.32	24.12	
20	16QAM	1	99	23.99	23.99	24.07	24.21	24.04	
20	16QAM	50	0	23.06	23.06	23.05	23.29	23.20	25
20	16QAM	50	24	23.06	23.03	23.02	23.26	23.17	
20	16QAM	50	50	23.02	23.02	23.07	23.22	23.13	
20	16QAM	100	0	23.01	23.01	23.02	23.25	23.17	
20	64QAM	1	0	23.05	23.05	23.03	23.02	23.06	25
20	64QAM	1	49	23.06	23.05	23.03	23.01	23.08	
20	64QAM	1	99	23.03	23.05	23.07	23.03	23.02	
20	64QAM	50	0	22.05	22.03	22.03	22.29	22.17	24
20	64QAM	50	24	22.08	22.00	22.08	22.23	22.13	
20	64QAM	50	50	22.07	22.06	22.03	22.21	22.10	
20	64QAM	100	0	22.09	22.01	22.06	22.23	22.13	
20	256QAM	1	0	21.98	21.07	21.08	21.45	21.57	22
20	256QAM	1	49	20.89	20.85	21.02	21.22	21.35	
20	256QAM	1	99	20.93	20.74	21.00	21.14	21.23	
20	256QAM	50	0	21.16	21.03	21.16	21.43	21.52	22
20	256QAM	50	24	21.13	21.09	21.09	21.34	21.32	
20	256QAM	50	50	21.09	20.90	21.12	21.31	21.51	
20	256QAM	100	0	21.03	20.86	21.05	21.22	21.47	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	24.40	24.29	24.27	24.60	24.49	25.20
15	QPSK	1	37	24.47	24.27	24.31	24.54	24.51	
15	QPSK	1	74	24.33	24.08	24.17	24.57	24.42	
15	QPSK	36	0	23.93	23.91	24.05	24.25	24.11	25.2
15	QPSK	36	20	23.89	23.93	23.99	24.22	24.12	
15	QPSK	36	39	23.88	23.93	23.90	24.17	24.09	
15	QPSK	75	0	23.93	23.94	23.91	24.14	24.02	
15	16QAM	1	0	23.90	23.96	23.88	24.34	24.20	25.2
15	16QAM	1	37	23.89	23.97	23.83	24.25	24.07	
15	16QAM	1	74	23.95	23.99	23.97	24.21	23.99	
15	16QAM	36	0	23.04	23.02	23.01	23.27	23.12	25
15	16QAM	36	20	23.03	23.03	23.00	23.25	23.09	
15	16QAM	36	39	23.00	23.00	23.01	23.16	23.08	
15	16QAM	75	0	23.00	23.01	23.00	23.21	23.13	
15	64QAM	1	0	23.00	22.96	23.00	22.92	23.00	25
15	64QAM	1	37	23.04	22.95	23.01	22.99	23.04	
15	64QAM	1	74	22.97	22.96	23.01	22.95	22.94	
15	64QAM	36	0	22.00	22.06	22.03	22.29	22.15	24
15	64QAM	36	20	22.00	22.01	22.07	22.13	22.12	
15	64QAM	36	39	22.01	22.04	22.00	22.18	22.03	
15	64QAM	75	0	22.06	22.07	22.06	22.17	22.12	
15	256QAM	1	0	21.90	21.00	21.02	21.38	21.48	22
15	256QAM	1	37	20.88	20.80	21.02	21.19	21.33	
15	256QAM	1	74	20.84	20.65	20.99	21.14	21.22	
15	256QAM	36	0	21.07	20.98	21.09	21.34	21.49	22
15	256QAM	36	20	21.05	21.07	21.05	21.29	21.30	
15	256QAM	36	39	21.08	20.90	21.10	21.28	21.44	



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15	256QAM	75	0	20.96	20.76	21.03	21.13	21.42	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	24.44	24.26	24.28	24.60	24.54	25.20
10	QPSK	1	25	24.46	24.22	24.35	24.57	24.51	
10	QPSK	1	49	24.27	24.15	24.12	24.54	24.43	
10	QPSK	25	0	23.92	24.00	24.05	24.28	24.17	25.2
10	QPSK	25	12	23.93	23.97	23.95	24.21	24.07	
10	QPSK	25	25	23.93	23.95	23.96	24.13	24.08	
10	QPSK	50	0	23.90	23.85	23.98	24.12	24.08	
10	16QAM	1	0	23.86	24.00	23.85	24.37	24.19	25.2
10	16QAM	1	25	23.94	23.93	23.85	24.22	24.08	
10	16QAM	1	49	23.92	23.99	23.98	24.11	23.95	
10	16QAM	25	0	23.02	22.97	22.96	23.28	23.20	25
10	16QAM	25	12	22.98	22.99	22.95	23.17	23.07	
10	16QAM	25	25	22.97	22.98	23.05	23.19	23.11	
10	16QAM	50	0	22.96	22.91	22.99	23.15	23.16	
10	64QAM	1	0	23.12	23.09	23.08	23.04	23.08	25
10	64QAM	1	25	23.01	22.96	23.00	23.01	23.05	
10	64QAM	1	49	23.08	22.95	23.04	22.98	23.00	
10	64QAM	25	0	22.08	22.08	22.03	22.21	22.16	24
10	64QAM	25	12	22.00	22.00	22.01	22.18	22.03	
10	64QAM	25	25	22.06	22.05	22.04	22.15	22.01	
10	64QAM	50	0	22.03	22.04	22.04	22.17	22.09	
10	256QAM	1	0	21.91	21.06	21.05	21.38	21.51	22
10	256QAM	1	25	20.82	20.82	20.97	21.17	21.34	
10	256QAM	1	49	20.90	20.64	20.92	21.05	21.17	
10	256QAM	25	0	21.12	21.00	21.10	21.40	21.47	22
10	256QAM	25	12	21.07	21.09	21.05	21.31	21.25	
10	256QAM	25	25	21.01	20.81	21.04	21.22	21.44	
10	256QAM	50	0	20.99	20.78	21.01	21.18	21.40	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	24.40	24.24	24.27	24.59	24.52	25.20
5	QPSK	1	12	24.40	24.26	24.35	24.59	24.56	
5	QPSK	1	24	24.25	24.16	24.16	24.57	24.43	
5	QPSK	12	0	24.00	23.96	24.04	24.24	24.12	25.2
5	QPSK	12	7	23.91	23.96	23.95	24.15	24.05	
5	QPSK	12	13	23.86	23.90	23.94	24.11	24.07	
5	QPSK	25	0	23.92	23.92	24.00	24.14	24.05	
5	16QAM	1	0	23.96	23.95	23.95	24.31	24.19	25.2
5	16QAM	1	12	23.91	24.00	23.93	24.26	24.02	
5	16QAM	1	24	23.98	23.99	24.02	24.12	24.01	
5	16QAM	12	0	23.16	23.07	23.13	23.31	23.26	25
5	16QAM	12	7	23.09	23.03	23.09	23.29	23.17	
5	16QAM	12	13	23.08	23.10	23.12	23.22	23.14	
5	16QAM	25	0	23.08	23.09	23.08	23.25	23.23	
5	64QAM	1	0	23.14	23.11	23.10	23.03	23.08	25
5	64QAM	1	12	23.06	23.08	23.13	23.11	23.08	
5	64QAM	1	24	23.09	23.07	23.17	23.08	23.05	
5	64QAM	12	0	22.09	22.10	22.05	22.33	22.23	24
5	64QAM	12	7	22.18	22.09	22.16	22.23	22.23	
5	64QAM	12	13	22.16	22.07	22.06	22.21	22.19	
5	64QAM	25	0	22.14	22.06	22.08	22.33	22.23	
5	256QAM	1	0	21.92	21.05	21.06	21.38	21.49	22
5	256QAM	1	12	20.82	20.79	21.01	21.17	21.34	
5	256QAM	1	24	20.83	20.70	20.97	21.09	21.23	
5	256QAM	12	0	21.13	20.98	21.12	21.34	21.47	22
5	256QAM	12	7	21.06	21.08	21.02	21.29	21.28	
5	256QAM	12	13	21.04	20.89	21.10	21.24	21.51	
5	256QAM	25	0	20.95	20.84	21.02	21.22	21.42	



<LTE Band 41_HPUE_Ant 0_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.82	25.96	26.09	25.99	26.23	27
20	QPSK	1	49	25.77	25.94	25.93	25.97	26.18	
20	QPSK	1	99	25.74	25.97	25.87	25.91	26.15	
20	QPSK	50	0	25.03	25.13	25.12	25.14	25.34	26
20	QPSK	50	24	24.97	25.14	25.07	25.14	25.34	
20	QPSK	50	50	24.93	25.12	25.02	25.14	25.36	
20	QPSK	100	0	24.94	25.08	25.06	25.11	25.35	
20	16QAM	1	0	25.01	25.22	25.35	25.15	25.48	26
20	16QAM	1	49	24.99	25.18	25.28	25.00	25.45	
20	16QAM	1	99	24.97	25.25	25.14	24.94	25.39	
20	16QAM	50	0	23.99	24.08	24.14	24.07	24.34	25
20	16QAM	50	24	23.94	24.09	24.11	24.04	24.33	
20	16QAM	50	50	23.90	24.09	24.04	23.97	24.32	
20	16QAM	100	0	23.91	24.07	24.08	24.02	24.32	
20	64QAM	1	0	23.85	24.02	24.15	23.98	24.30	25
20	64QAM	1	49	23.80	23.98	24.04	23.87	24.27	
20	64QAM	1	99	23.94	24.07	23.91	23.73	24.22	
20	64QAM	50	0	22.94	23.04	23.07	22.99	23.27	24
20	64QAM	50	24	22.88	23.05	23.01	22.95	23.26	
20	64QAM	50	50	22.86	23.06	22.99	22.90	23.26	
20	64QAM	100	0	22.88	23.03	23.04	22.94	23.28	
20	256QAM	1	0	20.91	20.96	21.05	21.05	21.25	22
20	256QAM	1	49	20.79	20.90	21.00	20.94	21.13	
20	256QAM	1	99	20.68	20.72	20.82	20.81	20.97	
20	256QAM	50	0	20.89	21.01	21.10	21.09	21.30	22
20	256QAM	50	24	20.89	20.90	21.05	21.05	21.23	
20	256QAM	50	50	20.84	20.90	21.00	20.94	21.14	
20	256QAM	100	0	20.80	20.84	21.00	20.93	21.11	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	25.74	25.95	25.93	25.84	26.08	27.00
15	QPSK	1	37	25.63	25.75	25.80	25.83	26.11	
15	QPSK	1	74	25.72	25.79	25.86	25.84	26.02	
15	QPSK	36	0	24.89	25.05	24.96	24.99	25.23	26
15	QPSK	36	20	24.90	25.04	25.00	25.02	25.19	
15	QPSK	36	39	24.85	25.02	24.87	25.03	25.21	
15	QPSK	75	0	24.85	25.05	24.94	25.00	25.32	
15	16QAM	1	0	24.98	25.22	25.21	25.03	25.35	26
15	16QAM	1	37	24.80	25.04	25.11	24.91	25.28	
15	16QAM	1	74	24.91	25.24	25.09	24.88	25.29	
15	16QAM	36	0	23.84	23.95	24.13	23.94	24.23	25
15	16QAM	36	20	23.94	24.09	24.03	23.89	24.25	
15	16QAM	36	39	23.86	24.08	23.96	23.86	24.32	
15	16QAM	75	0	23.90	24.05	24.07	23.85	24.13	
15	64QAM	1	0	23.83	23.90	24.15	23.90	24.13	25
15	64QAM	1	37	23.67	23.95	23.91	23.70	24.09	
15	64QAM	1	74	23.76	23.91	23.84	23.70	24.18	
15	64QAM	36	0	22.92	22.91	23.03	22.85	23.12	24
15	64QAM	36	20	22.68	22.91	22.99	22.85	23.20	
15	64QAM	36	39	22.77	22.95	22.80	22.72	23.19	
15	64QAM	75	0	22.83	22.91	22.93	22.82	23.08	
15	256QAM	1	0	20.87	20.84	20.92	21.01	21.06	22
15	256QAM	1	37	20.72	20.85	20.99	20.81	20.97	
15	256QAM	1	74	20.65	20.58	20.78	20.79	20.94	
15	256QAM	36	0	20.83	20.94	20.91	21.00	21.24	22
15	256QAM	36	20	20.80	20.72	20.95	20.85	21.08	
15	256QAM	36	39	20.79	20.79	20.81	20.90	20.97	



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15	256QAM	75	0	20.80	20.78	20.86	20.89	21.00	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	25.65	25.76	26.05	25.87	26.08	27.00
10	QPSK	1	25	25.70	25.91	25.75	25.78	26.00	
10	QPSK	1	49	25.59	25.88	25.80	25.78	25.96	
10	QPSK	25	0	24.85	24.95	24.92	25.13	25.24	26
10	QPSK	25	12	24.96	25.03	24.90	25.11	25.24	
10	QPSK	25	25	24.80	25.10	24.83	25.12	25.31	
10	QPSK	50	0	24.77	24.99	24.97	25.08	25.27	
10	16QAM	1	0	24.89	25.16	25.31	25.09	25.29	26
10	16QAM	1	25	24.96	24.98	25.08	24.88	25.26	
10	16QAM	1	49	24.83	25.11	25.08	24.80	25.19	
10	16QAM	25	0	23.98	24.02	24.14	23.89	24.29	25
10	16QAM	25	12	23.85	24.09	24.02	23.91	24.21	
10	16QAM	25	25	23.83	24.07	23.97	23.90	24.16	
10	16QAM	50	0	23.73	23.94	24.08	23.86	24.21	
10	64QAM	1	0	23.71	23.88	24.14	23.97	24.10	25
10	64QAM	1	25	23.64	23.98	23.97	23.87	24.10	
10	64QAM	1	49	23.81	24.07	23.81	23.63	24.14	
10	64QAM	25	0	22.79	22.95	22.94	22.81	23.16	24
10	64QAM	25	12	22.80	23.04	22.94	22.75	23.14	
10	64QAM	25	25	22.79	23.01	22.90	22.77	23.18	
10	64QAM	50	0	22.72	22.83	23.02	22.79	23.25	
10	256QAM	1	0	20.90	20.92	20.96	20.85	21.05	22
10	256QAM	1	25	20.61	20.85	20.85	20.82	21.10	
10	256QAM	1	49	20.59	20.56	20.68	20.72	20.93	
10	256QAM	25	0	20.85	20.89	21.08	20.93	21.27	22
10	256QAM	25	12	20.88	20.76	20.90	20.91	21.10	
10	256QAM	25	25	20.83	20.71	20.95	20.88	21.03	
10	256QAM	50	0	20.80	20.64	20.97	20.93	20.99	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	25.77	25.81	26.02	25.98	26.12	27.00
5	QPSK	1	12	25.58	25.91	25.80	25.78	26.04	
5	QPSK	1	24	25.56	25.89	25.82	25.79	26.00	
5	QPSK	12	0	24.84	25.10	24.97	25.14	25.29	26
5	QPSK	12	7	24.88	25.04	24.97	24.96	25.29	
5	QPSK	12	13	24.93	25.03	24.98	24.98	25.28	
5	QPSK	25	0	24.93	24.97	24.88	24.93	25.21	
5	16QAM	1	0	24.83	25.02	25.24	25.12	25.30	26
5	16QAM	1	12	24.92	25.12	25.27	24.93	25.34	
5	16QAM	1	24	24.85	25.12	25.06	24.82	25.29	
5	16QAM	12	0	23.90	23.95	24.10	23.87	24.18	25
5	16QAM	12	7	23.76	23.94	24.00	23.92	24.26	
5	16QAM	12	13	23.90	24.02	23.90	23.87	24.13	
5	16QAM	25	0	23.76	23.91	23.94	23.90	24.27	
5	64QAM	1	0	23.69	23.96	24.11	23.86	24.14	25
5	64QAM	1	12	23.74	23.92	23.85	23.75	24.21	
5	64QAM	1	24	23.85	24.06	23.80	23.62	24.17	
5	64QAM	12	0	22.87	22.87	22.91	22.99	23.13	24
5	64QAM	12	7	22.72	22.88	22.94	22.89	23.22	
5	64QAM	12	13	22.68	23.06	22.85	22.78	23.17	
5	64QAM	25	0	22.77	22.97	22.96	22.89	23.14	
5	256QAM	1	0	20.71	20.90	20.90	21.03	21.18	22
5	256QAM	1	12	20.64	20.89	20.97	20.85	20.95	
5	256QAM	1	24	20.49	20.57	20.68	20.72	20.95	
5	256QAM	12	0	20.86	20.95	21.04	21.06	21.11	22
5	256QAM	12	7	20.81	20.83	21.01	20.87	21.21	
5	256QAM	12	13	20.72	20.87	20.92	20.77	21.02	
5	256QAM	25	0	20.65	20.77	20.82	20.91	20.92	



<LTE Band 41_HPUE_Ant 5_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.63	25.77	25.88	25.85	25.89	25.9
20	QPSK	1	49	25.51	25.73	25.76	25.69	25.61	
20	QPSK	1	99	25.53	25.81	25.72	25.64	25.82	
20	QPSK	50	0	24.84	24.96	24.89	24.98	24.99	25.9
20	QPSK	50	24	24.77	24.90	24.85	24.96	24.97	
20	QPSK	50	50	24.71	24.90	24.82	24.87	24.97	
20	QPSK	100	0	24.71	24.89	24.86	24.94	24.97	
20	16QAM	1	0	24.82	25.07	25.13	25.12	25.16	25.9
20	16QAM	1	49	24.75	24.99	25.00	24.92	25.14	
20	16QAM	1	99	24.74	25.07	24.97	24.86	25.05	
20	16QAM	50	0	23.77	23.91	23.90	23.98	23.98	24.9
20	16QAM	50	24	23.72	23.90	23.87	23.92	23.98	
20	16QAM	50	50	23.68	23.91	23.83	23.85	23.97	
20	16QAM	100	0	23.70	23.88	23.85	23.90	23.97	
20	64QAM	1	0	23.67	23.83	23.94	23.95	23.98	24.9
20	64QAM	1	49	23.57	23.79	23.83	23.76	23.88	
20	64QAM	1	99	23.58	23.85	23.80	23.66	23.88	
20	64QAM	50	0	22.74	22.87	22.88	22.93	22.92	23.9
20	64QAM	50	24	22.68	22.84	22.83	22.85	22.91	
20	64QAM	50	50	22.66	22.86	22.79	22.82	22.94	
20	64QAM	100	0	22.68	22.85	22.82	22.84	22.93	
20	256QAM	1	0	20.74	20.80	20.78	20.94	20.88	21.9
20	256QAM	1	49	20.67	20.66	20.72	20.79	20.80	
20	256QAM	1	99	20.57	20.62	20.62	20.76	20.65	
20	256QAM	50	0	20.77	20.84	20.89	20.95	20.92	21.9
20	256QAM	50	24	20.74	20.75	20.81	20.90	20.90	
20	256QAM	50	50	20.70	20.80	20.79	20.94	20.83	
20	256QAM	100	0	20.67	20.75	20.76	20.86	20.81	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	25.44	25.58	25.78	25.65	25.69	25.90
15	QPSK	1	37	25.49	25.54	25.74	25.57	25.52	
15	QPSK	1	74	25.37	25.63	25.64	25.58	25.79	
15	QPSK	36	0	24.70	24.85	24.81	24.89	24.78	25.9
15	QPSK	36	20	24.71	24.79	24.72	24.91	24.96	
15	QPSK	36	39	24.66	24.79	24.76	24.71	24.93	
15	QPSK	75	0	24.63	24.70	24.71	24.74	24.87	
15	16QAM	1	0	24.79	24.93	25.05	25.10	25.13	25.9
15	16QAM	1	37	24.64	24.81	24.86	24.83	25.01	
15	16QAM	1	74	24.56	25.05	24.84	24.66	24.98	
15	16QAM	36	0	23.72	23.71	23.73	23.96	23.93	24.9
15	16QAM	36	20	23.67	23.89	23.67	23.80	23.90	
15	16QAM	36	39	23.55	23.79	23.77	23.82	23.80	
15	16QAM	75	0	23.60	23.71	23.85	23.83	23.93	
15	64QAM	1	0	23.62	23.72	23.82	23.77	23.84	24.9
15	64QAM	1	37	23.48	23.61	23.81	23.63	23.86	
15	64QAM	1	74	23.40	23.79	23.80	23.63	23.85	
15	64QAM	36	0	22.55	22.75	22.71	22.92	22.77	23.9
15	64QAM	36	20	22.52	22.82	22.63	22.83	22.77	
15	64QAM	36	39	22.64	22.68	22.59	22.78	22.90	
15	64QAM	75	0	22.53	22.67	22.73	22.80	22.82	
15	256QAM	1	0	20.65	20.79	20.66	20.93	20.78	21.9
15	256QAM	1	37	20.48	20.66	20.63	20.73	20.78	
15	256QAM	1	74	20.54	20.60	20.52	20.72	20.60	
15	256QAM	36	0	20.72	20.77	20.82	20.78	20.88	21.9
15	256QAM	36	20	20.68	20.69	20.81	20.74	20.81	
15	256QAM	36	39	20.62	20.63	20.77	20.88	20.65	



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15	256QAM	75	0	20.49	20.64	20.61	20.81	20.61	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	25.59	25.76	25.78	25.70	25.85	25.90
10	QPSK	1	25	25.51	25.69	25.73	25.62	25.43	
10	QPSK	1	49	25.36	25.62	25.59	25.53	25.81	
10	QPSK	25	0	24.82	24.80	24.83	24.97	24.84	25.9
10	QPSK	25	12	24.59	24.72	24.65	24.89	24.95	
10	QPSK	25	25	24.58	24.90	24.78	24.68	24.85	
10	QPSK	50	0	24.67	24.70	24.83	24.84	24.88	
10	16QAM	1	0	24.72	25.03	25.05	24.93	25.00	25.9
10	16QAM	1	25	24.60	24.92	24.99	24.82	25.02	
10	16QAM	1	49	24.59	25.03	24.97	24.81	24.99	
10	16QAM	25	0	23.61	23.84	23.77	23.97	23.85	24.9
10	16QAM	25	12	23.66	23.90	23.85	23.73	23.81	
10	16QAM	25	25	23.54	23.82	23.63	23.70	23.81	
10	16QAM	50	0	23.66	23.68	23.81	23.80	23.80	
10	64QAM	1	0	23.56	23.81	23.91	23.93	23.80	24.9
10	64QAM	1	25	23.48	23.70	23.73	23.76	23.80	
10	64QAM	1	49	23.49	23.82	23.75	23.66	23.73	
10	64QAM	25	0	22.71	22.68	22.73	22.76	22.82	23.9
10	64QAM	25	12	22.55	22.74	22.79	22.72	22.84	
10	64QAM	25	25	22.51	22.80	22.65	22.63	22.92	
10	64QAM	50	0	22.50	22.76	22.75	22.79	22.78	
10	256QAM	1	0	20.64	20.74	20.72	20.86	20.84	21.9
10	256QAM	1	25	20.61	20.46	20.53	20.71	20.63	
10	256QAM	1	49	20.56	20.47	20.55	20.65	20.53	
10	256QAM	25	0	20.68	20.81	20.71	20.82	20.83	21.9
10	256QAM	25	12	20.56	20.70	20.76	20.82	20.70	
10	256QAM	25	25	20.64	20.71	20.68	20.84	20.68	
10	256QAM	50	0	20.56	20.69	20.59	20.67	20.78	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	25.63	25.63	25.83	25.69	25.79	25.90
5	QPSK	1	12	25.36	25.69	25.56	25.56	25.55	
5	QPSK	1	24	25.52	25.68	25.61	25.48	25.74	
5	QPSK	12	0	24.64	24.93	24.74	24.92	24.92	25.9
5	QPSK	12	7	24.65	24.87	24.79	24.95	24.87	
5	QPSK	12	13	24.60	24.76	24.74	24.70	24.85	
5	QPSK	25	0	24.64	24.81	24.70	24.85	24.88	
5	16QAM	1	0	24.63	24.88	24.93	25.07	24.97	25.9
5	16QAM	1	12	24.60	24.93	24.90	24.86	25.00	
5	16QAM	1	24	24.62	24.97	24.88	24.81	25.01	
5	16QAM	12	0	23.68	23.86	23.85	23.94	23.79	24.9
5	16QAM	12	7	23.59	23.86	23.85	23.79	23.95	
5	16QAM	12	13	23.58	23.72	23.66	23.84	23.96	
5	16QAM	25	0	23.57	23.76	23.73	23.83	23.91	
5	64QAM	1	0	23.65	23.66	23.74	23.90	23.91	24.9
5	64QAM	1	12	23.46	23.59	23.77	23.74	23.73	
5	64QAM	1	24	23.38	23.85	23.78	23.48	23.85	
5	64QAM	12	0	22.71	22.73	22.77	22.91	22.92	23.9
5	64QAM	12	7	22.54	22.75	22.72	22.82	22.80	
5	64QAM	12	13	22.66	22.79	22.73	22.62	22.94	
5	64QAM	25	0	22.56	22.65	22.63	22.84	22.88	
5	256QAM	1	0	20.58	20.80	20.78	20.85	20.81	21.9
5	256QAM	1	12	20.50	20.58	20.65	20.76	20.60	
5	256QAM	1	24	20.53	20.50	20.53	20.63	20.47	
5	256QAM	12	0	20.61	20.80	20.72	20.77	20.87	21.9
5	256QAM	12	7	20.55	20.67	20.81	20.78	20.82	
5	256QAM	12	13	20.58	20.74	20.62	20.90	20.70	
5	256QAM	25	0	20.63	20.60	20.75	20.82	20.75	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	19.30	19.40	19.33	19.41	19.43	19.7
20	QPSK	1	49	19.16	19.18	19.04	19.19	19.40	
20	QPSK	1	99	19.11	19.18	19.01	19.17	19.28	
20	QPSK	50	0	19.12	19.23	19.17	19.35	19.40	19.7
20	QPSK	50	24	19.11	19.20	19.13	19.32	19.34	
20	QPSK	50	50	19.12	19.19	19.07	19.31	19.28	
20	QPSK	100	0	19.10	19.19	19.13	19.32	19.34	
20	16QAM	1	0	19.29	19.39	19.32	19.40	19.42	19.7
20	16QAM	1	49	19.14	19.33	19.17	19.30	19.39	
20	16QAM	1	99	19.21	19.31	19.14	19.26	19.42	
20	16QAM	50	0	19.14	19.28	19.21	19.38	19.42	19.7
20	16QAM	50	24	19.13	19.27	19.17	19.34	19.38	
20	16QAM	50	50	19.13	19.25	19.11	19.31	19.33	
20	16QAM	100	0	19.11	19.25	19.16	19.33	19.38	
20	64QAM	1	0	18.83	19.00	18.94	19.06	19.12	19.7
20	64QAM	1	49	18.83	18.92	18.87	19.04	19.10	
20	64QAM	1	99	18.79	18.91	18.75	18.89	18.98	
20	64QAM	50	0	19.15	19.27	19.22	19.38	19.42	19.7
20	64QAM	50	24	19.13	19.24	19.17	19.33	19.40	
20	64QAM	50	50	19.13	19.23	19.12	19.31	19.35	
20	64QAM	100	0	19.12	19.25	19.14	19.34	19.34	
20	256QAM	1	0	18.72	18.82	18.83	18.98	19.05	19.7
20	256QAM	1	49	18.59	18.77	18.80	18.90	18.96	
20	256QAM	1	99	18.47	18.58	18.66	18.79	18.80	
20	256QAM	50	0	18.97	19.08	19.16	19.23	19.30	19.7
20	256QAM	50	24	18.96	19.03	19.07	19.18	19.28	
20	256QAM	50	50	18.79	18.91	18.99	19.05	19.18	
20	256QAM	100	0	18.82	18.90	19.00	19.11	19.20	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	19.20	19.22	19.17	19.26	19.28	19.70
15	QPSK	1	37	18.99	19.03	18.93	19.08	19.28	
15	QPSK	1	74	18.97	19.00	18.87	18.99	19.13	
15	QPSK	36	0	18.93	19.12	19.01	19.15	19.23	19.7
15	QPSK	36	20	18.92	19.01	19.00	19.20	19.19	
15	QPSK	36	39	18.94	18.99	18.88	19.14	19.12	
15	QPSK	75	0	18.98	19.07	18.94	19.22	19.15	
15	16QAM	1	0	19.18	19.27	19.18	19.25	19.28	19.7
15	16QAM	1	37	19.04	19.15	19.00	19.19	19.28	
15	16QAM	1	74	19.05	19.17	18.96	19.06	19.29	
15	16QAM	36	0	18.99	19.08	19.02	19.24	19.32	19.7
15	16QAM	36	20	19.03	19.14	18.97	19.16	19.28	
15	16QAM	36	39	18.93	19.07	18.96	19.13	19.22	
15	16QAM	75	0	18.91	19.09	19.06	19.20	19.22	
15	64QAM	1	0	18.69	18.87	18.78	18.87	18.99	19.7
15	64QAM	1	37	18.68	18.73	18.71	18.86	18.91	
15	64QAM	1	74	18.59	18.71	18.63	18.75	18.84	
15	64QAM	36	0	18.98	19.08	19.12	19.19	19.29	19.7
15	64QAM	36	20	18.96	19.05	19.03	19.19	19.29	
15	64QAM	36	39	19.03	19.09	18.94	19.16	19.15	
15	64QAM	75	0	18.93	19.14	19.03	19.24	19.22	
15	256QAM	1	0	18.53	18.72	18.63	18.83	18.91	19.7
15	256QAM	1	37	18.49	18.64	18.68	18.78	18.84	
15	256QAM	1	74	18.28	18.43	18.48	18.59	18.67	
15	256QAM	36	0	18.83	18.98	19.05	19.08	19.18	19.7
15	256QAM	36	20	18.76	18.85	18.91	18.98	19.09	
15	256QAM	36	39	18.68	18.80	18.89	18.88	19.04	



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15	256QAM	75	0	18.72	18.70	18.83	18.96	19.10	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	19.12	19.23	19.18	19.27	19.25	19.70
10	QPSK	1	25	19.03	18.99	18.88	19.09	19.22	
10	QPSK	1	49	18.99	19.04	18.81	19.04	19.14	
10	QPSK	25	0	18.95	19.06	18.99	19.15	19.21	19.7
10	QPSK	25	12	18.96	19.05	19.03	19.19	19.16	
10	QPSK	25	25	18.96	19.05	18.93	19.20	19.16	
10	QPSK	50	0	18.93	18.99	18.98	19.14	19.14	
10	16QAM	1	0	19.12	19.22	19.20	19.21	19.23	19.7
10	16QAM	1	25	18.95	19.21	19.00	19.19	19.26	
10	16QAM	1	49	19.05	19.13	18.98	19.14	19.31	
10	16QAM	25	0	18.94	19.08	19.08	19.20	19.23	19.7
10	16QAM	25	12	18.95	19.07	18.98	19.21	19.18	
10	16QAM	25	25	18.93	19.08	18.95	19.21	19.19	
10	16QAM	50	0	18.99	19.08	19.00	19.15	19.24	
10	64QAM	1	0	18.72	18.89	18.74	18.89	18.92	19.7
10	64QAM	1	25	18.73	18.79	18.74	18.87	18.92	
10	64QAM	1	49	18.66	18.78	18.56	18.78	18.82	
10	64QAM	25	0	18.98	19.14	19.06	19.18	19.26	19.7
10	64QAM	25	12	19.00	19.04	18.99	19.23	19.21	
10	64QAM	25	25	18.95	19.11	19.01	19.19	19.24	
10	64QAM	50	0	18.97	19.14	19.03	19.18	19.21	
10	256QAM	1	0	18.62	18.71	18.73	18.82	18.92	19.7
10	256QAM	1	25	18.44	18.60	18.66	18.71	18.81	
10	256QAM	1	49	18.36	18.43	18.51	18.59	18.70	
10	256QAM	25	0	18.82	18.92	19.04	19.04	19.19	19.7
10	256QAM	25	12	18.85	18.84	18.97	19.03	19.12	
10	256QAM	25	25	18.69	18.74	18.83	18.94	19.04	
10	256QAM	50	0	18.66	18.72	18.88	18.96	19.04	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	19.19	19.24	19.21	19.29	19.26	19.70
5	QPSK	1	12	19.02	19.02	18.92	19.04	19.21	
5	QPSK	1	24	19.00	19.02	18.84	19.00	19.16	
5	QPSK	12	0	18.97	19.07	18.98	19.18	19.24	19.7
5	QPSK	12	7	18.93	19.07	18.96	19.20	19.23	
5	QPSK	12	13	18.98	19.06	18.96	19.20	19.14	
5	QPSK	25	0	18.94	19.02	18.94	19.16	19.20	
5	16QAM	1	0	19.14	19.25	19.21	19.24	19.29	19.7
5	16QAM	1	12	19.00	19.23	19.06	19.18	19.22	
5	16QAM	1	24	19.05	19.20	19.02	19.07	19.22	
5	16QAM	12	0	18.97	19.18	19.07	19.28	19.25	19.7
5	16QAM	12	7	19.02	19.10	19.01	19.19	19.19	
5	16QAM	12	13	18.94	19.15	18.95	19.13	19.18	
5	16QAM	25	0	19.00	19.07	19.05	19.16	19.21	
5	64QAM	1	0	18.63	18.83	18.79	18.90	18.97	19.7
5	64QAM	1	12	18.68	18.75	18.67	18.84	18.91	
5	64QAM	1	24	18.68	18.71	18.61	18.77	18.81	
5	64QAM	12	0	19.02	19.08	19.09	19.26	19.26	19.7
5	64QAM	12	7	18.94	19.14	18.98	19.16	19.23	
5	64QAM	12	13	19.01	19.09	18.99	19.20	19.21	
5	64QAM	25	0	18.98	19.11	19.00	19.17	19.19	
5	256QAM	1	0	18.61	18.63	18.69	18.84	18.89	19.7
5	256QAM	1	12	18.46	18.63	18.64	18.71	18.84	
5	256QAM	1	24	18.28	18.44	18.54	18.66	18.64	
5	256QAM	12	0	18.85	18.90	19.02	19.07	19.20	19.7
5	256QAM	12	7	18.80	18.84	18.88	19.06	19.13	
5	256QAM	12	13	18.62	18.71	18.88	18.93	19.07	
5	256QAM	25	0	18.69	18.76	18.84	18.98	19.01	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.22	24.05	24.13	24.40	24.53	25
20	QPSK	1	49	24.22	23.93	24.08	24.35	24.48	
20	QPSK	1	99	24.13	23.94	24.04	24.31	24.42	
20	QPSK	50	0	23.26	23.03	23.13	23.46	23.54	24
20	QPSK	50	24	23.24	23.01	23.08	23.37	23.44	
20	QPSK	50	50	23.19	22.98	23.03	23.36	23.39	
20	QPSK	100	0	23.21	22.99	23.07	23.39	23.43	
20	16QAM	1	0	23.34	23.18	23.26	23.51	23.67	24
20	16QAM	1	49	23.25	23.00	23.13	23.34	23.55	
20	16QAM	1	99	23.25	23.02	23.13	23.33	23.52	
20	16QAM	50	0	22.27	22.05	22.15	22.43	22.53	23
20	16QAM	50	24	22.27	22.03	22.11	22.40	22.50	
20	16QAM	50	50	22.23	22.00	22.08	22.37	22.45	
20	16QAM	100	0	22.24	22.02	22.10	22.40	22.49	
20	64QAM	1	0	21.93	21.74	21.84	22.13	22.24	23
20	64QAM	1	49	21.89	21.65	21.75	22.03	22.15	
20	64QAM	1	99	21.82	21.64	21.68	21.95	22.05	
20	64QAM	50	0	21.26	21.02	21.13	21.41	21.53	22
20	64QAM	50	24	21.24	20.99	21.04	21.36	21.46	
20	64QAM	50	50	21.20	20.97	21.06	21.35	21.45	
20	64QAM	100	0	21.20	20.99	21.07	21.37	21.45	
20	256QAM	1	0	19.02	18.89	18.96	19.29	19.35	20
20	256QAM	1	49	18.90	18.79	18.86	19.18	19.17	
20	256QAM	1	99	18.75	18.66	18.79	19.06	19.08	
20	256QAM	50	0	19.19	19.05	19.21	19.48	19.53	20
20	256QAM	50	24	19.14	18.98	19.15	19.44	19.47	
20	256QAM	50	50	19.08	18.92	19.07	19.35	19.38	
20	256QAM	100	0	19.16	18.99	19.11	19.36	19.41	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	24.18	23.90	24.05	24.36	24.35	25.00
15	QPSK	1	37	24.18	23.84	23.89	24.26	24.31	
15	QPSK	1	74	23.97	23.80	23.85	24.30	24.22	
15	QPSK	36	0	23.14	22.86	22.97	23.28	23.38	24
15	QPSK	36	20	23.21	22.83	22.97	23.28	23.43	
15	QPSK	36	39	23.09	22.90	23.01	23.31	23.29	
15	QPSK	75	0	23.13	22.84	22.87	23.31	23.27	
15	16QAM	1	0	23.20	23.03	23.26	23.47	23.58	24
15	16QAM	1	37	23.18	22.98	23.05	23.25	23.36	
15	16QAM	1	74	23.12	23.02	23.02	23.19	23.48	
15	16QAM	36	0	22.20	21.86	21.95	22.36	22.35	23
15	16QAM	36	20	22.14	21.99	21.98	22.36	22.38	
15	16QAM	36	39	22.07	21.92	22.02	22.27	22.35	
15	16QAM	75	0	22.19	21.93	22.00	22.39	22.30	
15	64QAM	1	0	21.77	21.69	21.83	22.08	22.22	23
15	64QAM	1	37	21.85	21.53	21.55	21.87	22.09	
15	64QAM	1	74	21.67	21.50	21.58	21.86	22.03	
15	64QAM	36	0	21.26	21.02	20.96	21.27	21.37	22
15	64QAM	36	20	21.18	20.84	20.95	21.22	21.43	
15	64QAM	36	39	21.20	20.85	20.89	21.34	21.44	
15	64QAM	75	0	21.01	20.88	20.92	21.20	21.27	
15	256QAM	1	0	19.02	18.72	18.83	19.25	19.17	20
15	256QAM	1	37	18.70	18.70	18.73	19.07	18.97	
15	256QAM	1	74	18.65	18.63	18.63	19.02	18.95	
15	256QAM	36	0	19.09	18.87	19.06	19.35	19.46	20
15	256QAM	36	20	18.96	18.89	18.96	19.43	19.45	
15	256QAM	36	39	18.98	18.74	18.89	19.34	19.29	



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15	256QAM	75	0	19.05	18.98	19.01	19.31	19.37	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	24.02	24.01	24.00	24.27	24.48	25.00
10	QPSK	1	25	24.06	23.73	24.04	24.19	24.43	
10	QPSK	1	49	24.12	23.76	23.91	24.15	24.25	
10	QPSK	25	0	23.11	22.94	23.04	23.29	23.43	24
10	QPSK	25	12	23.24	22.90	22.91	23.32	23.38	
10	QPSK	25	25	23.00	22.96	23.00	23.20	23.29	
10	QPSK	50	0	23.19	22.88	23.05	23.26	23.38	
10	16QAM	1	0	23.34	23.00	23.18	23.47	23.64	24
10	16QAM	1	25	23.22	22.93	23.04	23.20	23.43	
10	16QAM	1	49	23.10	22.98	23.06	23.21	23.51	
10	16QAM	25	0	22.13	21.95	22.08	22.31	22.50	23
10	16QAM	25	12	22.24	21.83	21.91	22.23	22.46	
10	16QAM	25	25	22.07	21.92	21.99	22.35	22.43	
10	16QAM	50	0	22.07	21.84	22.04	22.24	22.40	
10	64QAM	1	0	21.76	21.68	21.65	22.13	22.13	23
10	64QAM	1	25	21.73	21.52	21.73	21.91	22.14	
10	64QAM	1	49	21.67	21.57	21.64	21.75	21.90	
10	64QAM	25	0	21.26	20.87	21.03	21.29	21.34	22
10	64QAM	25	12	21.08	20.80	20.89	21.31	21.34	
10	64QAM	25	25	21.13	20.93	21.04	21.34	21.39	
10	64QAM	50	0	21.06	20.98	20.91	21.27	21.41	
10	256QAM	1	0	18.86	18.71	18.87	19.15	19.26	20
10	256QAM	1	25	18.89	18.77	18.67	19.03	19.01	
10	256QAM	1	49	18.62	18.60	18.62	19.06	19.02	
10	256QAM	25	0	19.13	19.01	19.17	19.45	19.39	20
10	256QAM	25	12	18.95	18.85	18.99	19.27	19.27	
10	256QAM	25	25	18.89	18.74	18.99	19.27	19.21	
10	256QAM	50	0	19.14	18.89	19.02	19.34	19.23	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	24.02	23.87	24.04	24.31	24.48	25.00
5	QPSK	1	12	24.06	23.80	24.02	24.17	24.42	
5	QPSK	1	24	23.98	23.85	23.98	24.23	24.41	
5	QPSK	12	0	23.13	22.96	23.11	23.32	23.48	24
5	QPSK	12	7	23.07	22.94	23.01	23.26	23.41	
5	QPSK	12	13	23.00	22.94	23.01	23.27	23.38	
5	QPSK	25	0	23.03	22.93	23.07	23.30	23.26	
5	16QAM	1	0	23.24	23.11	23.16	23.32	23.59	24
5	16QAM	1	12	23.15	22.80	23.07	23.27	23.46	
5	16QAM	1	24	23.17	22.83	22.93	23.33	23.38	
5	16QAM	12	0	22.11	22.03	22.06	22.30	22.50	23
5	16QAM	12	7	22.10	21.86	21.98	22.35	22.39	
5	16QAM	12	13	22.11	21.89	21.95	22.26	22.30	
5	16QAM	25	0	22.17	21.99	22.00	22.36	22.44	
5	64QAM	1	0	21.79	21.55	21.84	22.13	22.19	23
5	64QAM	1	12	21.76	21.45	21.69	21.93	22.09	
5	64QAM	1	24	21.69	21.46	21.68	21.88	21.93	
5	64QAM	12	0	21.09	20.86	21.01	21.31	21.48	22
5	64QAM	12	7	21.17	20.93	20.91	21.29	21.32	
5	64QAM	12	13	21.18	20.90	20.92	21.27	21.36	
5	64QAM	25	0	21.18	20.86	20.96	21.32	21.38	
5	256QAM	1	0	18.82	18.71	18.82	19.14	19.18	20
5	256QAM	1	12	18.70	18.75	18.69	19.04	19.09	
5	256QAM	1	24	18.59	18.60	18.62	18.91	18.96	
5	256QAM	12	0	19.05	18.91	19.01	19.43	19.38	20
5	256QAM	12	7	18.96	18.81	18.99	19.26	19.44	
5	256QAM	12	13	19.05	18.86	18.90	19.16	19.18	
5	256QAM	25	0	19.11	18.85	18.96	19.31	19.27	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.18	23.32	23.37	23.29	23.63	23.9
20	QPSK	1	49	23.12	23.32	23.29	23.25	23.61	
20	QPSK	1	99	23.11	23.29	23.14	23.20	23.58	
20	QPSK	50	0	22.78	22.95	22.91	22.92	23.28	23.9
20	QPSK	50	24	22.76	22.93	22.89	22.86	23.27	
20	QPSK	50	50	22.75	22.91	22.80	22.84	23.25	
20	QPSK	100	0	22.79	22.92	22.88	22.87	23.22	
20	16QAM	1	0	22.85	23.02	23.08	22.98	23.24	23.9
20	16QAM	1	49	22.84	22.92	22.95	22.79	23.17	
20	16QAM	1	99	22.70	22.98	22.84	22.74	23.15	
20	16QAM	50	0	21.77	21.89	21.96	21.86	22.15	23
20	16QAM	50	24	21.74	21.91	21.92	21.81	22.17	
20	16QAM	50	50	21.71	21.92	21.83	21.77	22.17	
20	16QAM	100	0	21.74	21.88	21.89	21.78	22.17	
20	64QAM	1	0	21.44	21.62	21.60	21.61	21.93	23
20	64QAM	1	49	21.44	21.65	21.58	21.56	21.88	
20	64QAM	1	99	21.40	21.66	21.37	21.44	21.79	
20	64QAM	50	0	20.79	20.93	20.88	20.89	21.23	22
20	64QAM	50	24	20.74	20.94	20.84	20.84	21.20	
20	64QAM	50	50	20.73	20.92	20.78	20.79	21.17	
20	64QAM	100	0	20.74	20.94	20.85	20.84	21.21	
20	256QAM	1	0	18.70	18.76	19.04	18.90	19.09	20
20	256QAM	1	49	18.66	18.66	18.78	18.60	19.01	
20	256QAM	1	99	18.42	18.49	18.66	18.42	18.90	
20	256QAM	50	0	18.90	18.81	19.09	18.88	19.22	20
20	256QAM	50	24	18.73	18.80	19.13	18.95	19.31	
20	256QAM	50	50	18.70	18.71	18.98	18.77	19.10	
20	256QAM	100	0	18.86	18.75	18.90	18.81	19.20	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	23.16	23.22	23.21	23.17	23.52	23.90
15	QPSK	1	37	23.12	23.16	23.12	23.14	23.59	
15	QPSK	1	74	23.09	23.15	23.06	23.20	23.39	
15	QPSK	36	0	22.73	22.78	22.80	22.86	23.18	23.9
15	QPSK	36	20	22.58	22.89	22.69	22.73	23.08	
15	QPSK	36	39	22.67	22.79	22.60	22.77	23.10	
15	QPSK	75	0	22.66	22.90	22.76	22.79	23.10	
15	16QAM	1	0	22.65	22.88	23.05	22.84	23.14	23.9
15	16QAM	1	37	22.80	22.89	22.91	22.71	23.14	
15	16QAM	1	74	22.62	22.98	22.76	22.71	23.01	
15	16QAM	36	0	21.65	21.74	21.81	21.78	22.03	23
15	16QAM	36	20	21.68	21.75	21.79	21.72	21.98	
15	16QAM	36	39	21.51	21.91	21.68	21.57	22.02	
15	16QAM	75	0	21.68	21.85	21.73	21.71	22.17	
15	64QAM	1	0	21.40	21.59	21.59	21.46	21.75	23
15	64QAM	1	37	21.38	21.45	21.47	21.39	21.88	
15	64QAM	1	74	21.37	21.50	21.24	21.33	21.69	
15	64QAM	36	0	20.65	20.93	20.86	20.78	21.21	22
15	64QAM	36	20	20.66	20.89	20.68	20.80	21.13	
15	64QAM	36	39	20.73	20.77	20.58	20.64	21.07	
15	64QAM	75	0	20.72	20.82	20.78	20.75	21.17	
15	256QAM	1	0	18.52	18.65	18.99	18.75	18.98	20
15	256QAM	1	37	18.56	18.50	18.70	18.60	18.82	
15	256QAM	1	74	18.40	18.30	18.57	18.28	18.84	
15	256QAM	36	0	18.70	18.75	18.93	18.88	19.11	20
15	256QAM	36	20	18.54	18.73	19.12	18.84	19.28	
15	256QAM	36	39	18.57	18.57	18.91	18.75	18.95	



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15	256QAM	75	0	18.76	18.61	18.79	18.66	19.05	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	23.17	23.18	23.22	23.18	23.50	23.90
10	QPSK	1	25	22.96	23.18	23.27	23.18	23.51	
10	QPSK	1	49	22.97	23.22	23.10	23.20	23.42	
10	QPSK	25	0	22.65	22.82	22.89	22.79	23.24	23.9
10	QPSK	25	12	22.59	22.80	22.83	22.67	23.21	
10	QPSK	25	25	22.67	22.85	22.64	22.69	23.14	
10	QPSK	50	0	22.73	22.83	22.88	22.71	23.08	
10	16QAM	1	0	22.76	22.96	23.08	22.96	23.20	23.9
10	16QAM	1	25	22.68	22.92	22.78	22.77	23.08	
10	16QAM	1	49	22.57	22.89	22.74	22.69	23.00	
10	16QAM	25	0	21.63	21.72	21.88	21.83	22.05	23
10	16QAM	25	12	21.64	21.82	21.86	21.77	22.06	
10	16QAM	25	25	21.58	21.88	21.82	21.61	22.10	
10	16QAM	50	0	21.68	21.73	21.88	21.67	22.02	
10	64QAM	1	0	21.32	21.53	21.40	21.49	21.90	23
10	64QAM	1	25	21.37	21.58	21.52	21.46	21.70	
10	64QAM	1	49	21.20	21.57	21.25	21.37	21.72	
10	64QAM	25	0	20.64	20.81	20.77	20.70	21.10	22
10	64QAM	25	12	20.62	20.90	20.66	20.69	21.01	
10	64QAM	25	25	20.62	20.81	20.72	20.71	21.00	
10	64QAM	50	0	20.66	20.79	20.80	20.75	21.12	
10	256QAM	1	0	18.59	18.71	18.90	18.78	19.03	20
10	256QAM	1	25	18.58	18.49	18.66	18.49	19.01	
10	256QAM	1	49	18.30	18.30	18.47	18.36	18.77	
10	256QAM	25	0	18.82	18.68	19.00	18.79	19.02	20
10	256QAM	25	12	18.62	18.70	19.08	18.75	19.22	
10	256QAM	25	25	18.61	18.55	18.81	18.59	19.06	
10	256QAM	50	0	18.70	18.61	18.78	18.72	19.00	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	23.18	23.15	23.33	23.13	23.45	23.90
5	QPSK	1	12	22.99	23.25	23.27	23.11	23.43	
5	QPSK	1	24	23.01	23.15	23.03	23.07	23.49	
5	QPSK	12	0	22.69	22.84	22.76	22.84	23.12	23.9
5	QPSK	12	7	22.72	22.86	22.84	22.85	23.20	
5	QPSK	12	13	22.57	22.75	22.80	22.68	23.10	
5	QPSK	25	0	22.59	22.81	22.84	22.73	23.22	
5	16QAM	1	0	22.80	22.85	23.06	22.89	23.15	23.9
5	16QAM	1	12	22.69	22.80	22.78	22.77	23.08	
5	16QAM	1	24	22.51	22.94	22.84	22.60	23.04	
5	16QAM	12	0	21.73	21.78	21.88	21.68	22.01	23
5	16QAM	12	7	21.54	21.75	21.86	21.79	21.97	
5	16QAM	12	13	21.70	21.74	21.71	21.63	22.10	
5	16QAM	25	0	21.62	21.68	21.70	21.77	22.15	
5	64QAM	1	0	21.34	21.44	21.59	21.55	21.82	23
5	64QAM	1	12	21.29	21.51	21.55	21.46	21.79	
5	64QAM	1	24	21.32	21.53	21.19	21.40	21.59	
5	64QAM	12	0	20.71	20.77	20.75	20.86	21.22	22
5	64QAM	12	7	20.54	20.75	20.77	20.83	21.20	
5	64QAM	12	13	20.62	20.84	20.76	20.69	21.07	
5	64QAM	25	0	20.55	20.85	20.80	20.71	21.20	
5	256QAM	1	0	18.70	18.74	18.91	18.84	19.01	20
5	256QAM	1	12	18.46	18.48	18.64	18.60	18.94	
5	256QAM	1	24	18.33	18.38	18.63	18.28	18.83	
5	256QAM	12	0	18.79	18.68	18.96	18.84	19.05	20
5	256QAM	12	7	18.73	18.80	19.03	18.82	19.20	
5	256QAM	12	13	18.56	18.65	18.86	18.62	18.97	
5	256QAM	25	0	18.86	18.55	18.71	18.64	19.10	



<LTE Band 41_Ant 5_Index 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.83	24.00	23.92	24.09	24.16	25
20	QPSK	1	49	23.82	24.05	23.92	24.02	24.09	
20	QPSK	1	99	23.74	23.97	23.81	23.90	24.04	
20	QPSK	50	0	22.82	22.95	22.90	23.01	23.09	24
20	QPSK	50	24	22.80	22.96	22.87	23.00	23.09	
20	QPSK	50	50	22.76	22.92	22.82	22.93	23.08	
20	QPSK	100	0	22.80	22.86	22.88	22.90	23.00	24
20	16QAM	1	0	22.85	23.02	23.04	23.13	23.12	
20	16QAM	1	49	22.70	22.92	22.88	22.93	22.96	
20	16QAM	1	99	22.70	22.98	22.90	22.84	23.00	23
20	16QAM	50	0	21.81	21.93	21.94	21.99	22.00	
20	16QAM	50	24	21.77	21.93	21.92	21.93	21.98	
20	16QAM	50	50	21.73	21.93	21.87	21.87	21.99	23
20	16QAM	100	0	21.76	21.92	21.91	21.92	21.98	
20	64QAM	1	0	21.51	21.69	21.59	21.74	21.79	
20	64QAM	1	49	21.47	21.71	21.53	21.66	21.74	22
20	64QAM	1	99	21.41	21.61	21.45	21.52	21.68	
20	64QAM	50	0	20.81	20.97	20.88	21.02	21.05	
20	64QAM	50	24	20.78	20.95	20.83	20.95	21.03	20
20	64QAM	50	50	20.75	20.93	20.83	20.91	21.00	
20	64QAM	100	0	20.80	20.95	20.83	20.95	21.03	
20	256QAM	1	0	18.67	18.80	18.69	18.87	18.83	20
20	256QAM	1	49	18.49	18.70	18.60	18.75	18.73	
20	256QAM	1	99	18.47	18.61	18.55	18.69	18.64	
20	256QAM	50	0	18.83	18.89	18.88	19.05	19.00	20
20	256QAM	50	24	18.76	18.97	18.86	19.04	18.93	
20	256QAM	50	50	18.78	18.96	18.85	19.03	18.93	
20	256QAM	100	0	18.74	18.89	18.84	19.00	18.91	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	23.75	23.93	23.78	23.89	24.00	25.00
15	QPSK	1	37	23.66	23.85	23.89	24.00	24.03	
15	QPSK	1	74	23.56	23.87	23.73	23.82	24.01	
15	QPSK	36	0	22.78	22.88	22.76	22.83	23.03	24
15	QPSK	36	20	22.69	22.80	22.75	22.90	23.08	
15	QPSK	36	39	22.61	22.90	22.70	22.92	22.88	
15	QPSK	75	0	22.73	22.85	22.86	22.89	22.90	24
15	16QAM	1	0	22.65	22.93	22.94	23.02	22.93	
15	16QAM	1	37	22.65	22.82	22.78	22.91	22.77	
15	16QAM	1	74	22.58	22.87	22.85	22.75	23.00	23
15	16QAM	36	0	21.73	21.79	21.92	21.92	21.90	
15	16QAM	36	20	21.70	21.77	21.81	21.73	21.78	
15	16QAM	36	39	21.60	21.92	21.67	21.79	21.88	23
15	16QAM	75	0	21.71	21.90	21.77	21.79	21.78	
15	64QAM	1	0	21.33	21.56	21.54	21.69	21.62	
15	64QAM	1	37	21.28	21.59	21.43	21.61	21.57	22
15	64QAM	1	74	21.32	21.56	21.36	21.39	21.63	
15	64QAM	36	0	20.74	20.80	20.71	20.98	21.04	
15	64QAM	36	20	20.76	20.91	20.76	20.81	20.90	20
15	64QAM	36	39	20.65	20.75	20.82	20.82	20.94	
15	64QAM	75	0	20.70	20.77	20.74	20.87	20.87	
15	256QAM	1	0	18.59	18.66	18.50	18.72	18.82	20
15	256QAM	1	37	18.44	18.67	18.59	18.75	18.54	
15	256QAM	1	74	18.40	18.56	18.51	18.62	18.63	
15	256QAM	36	0	18.81	18.86	18.88	18.97	19.00	20
15	256QAM	36	20	18.62	18.88	18.77	18.91	18.90	
15	256QAM	36	39	18.64	18.83	18.70	18.87	18.81	



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15	256QAM	75	0	18.73	18.87	18.65	18.86	18.88	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	23.70	24.00	23.91	23.91	23.99	25.00
10	QPSK	1	25	23.63	23.99	23.81	23.82	23.97	
10	QPSK	1	49	23.61	23.87	23.81	23.76	23.97	
10	QPSK	25	0	22.72	22.80	22.73	22.88	22.96	24
10	QPSK	25	12	22.64	22.80	22.71	22.98	23.06	
10	QPSK	25	25	22.68	22.84	22.73	22.76	23.02	
10	QPSK	50	0	22.76	22.73	22.81	22.83	22.89	
10	16QAM	1	0	22.84	22.88	22.86	23.00	22.99	24
10	16QAM	1	25	22.66	22.79	22.72	22.84	22.83	
10	16QAM	1	49	22.62	22.86	22.84	22.80	22.87	
10	16QAM	25	0	21.73	21.82	21.75	21.93	21.97	23
10	16QAM	25	12	21.75	21.88	21.73	21.84	21.92	
10	16QAM	25	25	21.54	21.73	21.72	21.74	21.86	
10	16QAM	50	0	21.57	21.87	21.77	21.91	21.88	
10	64QAM	1	0	21.35	21.58	21.43	21.59	21.67	23
10	64QAM	1	25	21.44	21.69	21.45	21.63	21.71	
10	64QAM	1	49	21.26	21.59	21.25	21.46	21.55	
10	64QAM	25	0	20.68	20.92	20.69	20.85	20.90	22
10	64QAM	25	12	20.78	20.82	20.80	20.80	20.87	
10	64QAM	25	25	20.55	20.80	20.76	20.80	20.98	
10	64QAM	50	0	20.72	20.92	20.66	20.94	20.89	
10	256QAM	1	0	18.63	18.75	18.53	18.84	18.81	20
10	256QAM	1	25	18.29	18.61	18.56	18.60	18.64	
10	256QAM	1	49	18.40	18.54	18.44	18.57	18.44	
10	256QAM	25	0	18.69	18.76	18.84	18.93	18.90	20
10	256QAM	25	12	18.62	18.95	18.69	18.95	18.75	
10	256QAM	25	25	18.66	18.89	18.79	19.00	18.74	
10	256QAM	50	0	18.57	18.85	18.80	18.98	18.78	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	23.76	23.92	23.84	23.94	24.09	25.00
5	QPSK	1	12	23.69	23.88	23.79	23.97	23.98	
5	QPSK	1	24	23.61	23.86	23.79	23.72	23.87	
5	QPSK	12	0	22.63	22.83	22.88	22.97	22.98	24
5	QPSK	12	7	22.77	22.91	22.86	22.87	23.02	
5	QPSK	12	13	22.75	22.86	22.82	22.78	23.07	
5	QPSK	25	0	22.60	22.76	22.86	22.88	22.85	
5	16QAM	1	0	22.83	22.97	22.95	22.94	22.96	24
5	16QAM	1	12	22.59	22.91	22.70	22.93	22.85	
5	16QAM	1	24	22.56	22.93	22.79	22.77	22.90	
5	16QAM	12	0	21.65	21.78	21.79	21.79	21.94	23
5	16QAM	12	7	21.74	21.78	21.85	21.86	21.94	
5	16QAM	12	13	21.66	21.83	21.82	21.86	21.91	
5	16QAM	25	0	21.63	21.85	21.81	21.74	21.97	
5	64QAM	1	0	21.50	21.56	21.59	21.62	21.71	23
5	64QAM	1	12	21.33	21.61	21.35	21.47	21.61	
5	64QAM	1	24	21.30	21.57	21.37	21.42	21.61	
5	64QAM	12	0	20.62	20.96	20.77	20.85	21.00	22
5	64QAM	12	7	20.74	20.84	20.79	20.89	20.90	
5	64QAM	12	13	20.67	20.92	20.75	20.72	20.94	
5	64QAM	25	0	20.77	20.91	20.69	20.86	20.89	
5	256QAM	1	0	18.47	18.65	18.59	18.68	18.74	20
5	256QAM	1	12	18.40	18.53	18.47	18.64	18.72	
5	256QAM	1	24	18.47	18.42	18.45	18.64	18.47	
5	256QAM	12	0	18.79	18.81	18.83	19.05	18.98	20
5	256QAM	12	7	18.64	18.83	18.81	18.96	18.74	
5	256QAM	12	13	18.69	18.89	18.82	18.90	18.90	
5	256QAM	25	0	18.71	18.77	18.67	18.97	18.85	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	20.59	20.75	20.63	20.81	20.95	21.3
20	QPSK	1	49	20.55	20.65	20.54	20.73	20.83	
20	QPSK	1	99	20.54	20.67	20.47	20.67	20.79	
20	QPSK	50	0	20.61	20.72	20.68	20.82	20.92	21.3
20	QPSK	50	24	20.62	20.74	20.63	20.81	20.86	
20	QPSK	50	50	20.60	20.69	20.59	20.82	20.79	
20	QPSK	100	0	20.62	20.74	20.64	20.81	20.84	
20	16QAM	1	0	20.60	20.69	20.61	20.84	20.87	21.3
20	16QAM	1	49	20.49	20.63	20.51	20.70	20.79	
20	16QAM	1	99	20.53	20.64	20.48	20.56	20.76	
20	16QAM	50	0	20.67	20.82	20.72	20.80	20.88	21.3
20	16QAM	50	24	20.68	20.77	20.73	20.91	20.90	
20	16QAM	50	50	20.69	20.77	20.64	20.86	20.87	
20	16QAM	100	0	20.66	20.78	20.70	20.90	20.82	
20	64QAM	1	0	20.37	20.54	20.47	20.61	20.74	21.3
20	64QAM	1	49	20.30	20.46	20.35	20.48	20.64	
20	64QAM	1	99	20.36	20.47	20.34	20.40	20.60	
20	64QAM	50	0	20.65	20.77	20.70	20.84	20.83	21.3
20	64QAM	50	24	20.66	20.77	20.69	20.82	20.85	
20	64QAM	50	50	20.62	20.75	20.64	20.83	20.87	
20	64QAM	100	0	20.64	20.73	20.67	20.83	20.67	
20	256QAM	1	0	20.53	20.61	20.58	20.68	20.81	21.3
20	256QAM	1	49	20.35	20.36	20.41	20.58	20.56	
20	256QAM	1	99	20.24	20.39	20.37	20.40	20.56	
20	256QAM	50	0	20.46	20.70	20.58	20.76	20.71	21.3
20	256QAM	50	24	20.45	20.62	20.53	20.67	20.69	
20	256QAM	50	50	20.40	20.51	20.44	20.58	20.62	
20	256QAM	100	0	20.42	20.59	20.48	20.63	20.68	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	20.49	20.64	20.48	20.63	20.80	21.30
15	QPSK	1	37	20.36	20.46	20.38	20.54	20.68	
15	QPSK	1	74	20.35	20.50	20.37	20.47	20.59	
15	QPSK	36	0	20.46	20.62	20.57	20.70	20.73	21.3
15	QPSK	36	20	20.42	20.62	20.51	20.65	20.70	
15	QPSK	36	39	20.48	20.58	20.40	20.65	20.66	
15	QPSK	75	0	20.52	20.61	20.52	20.62	20.69	
15	16QAM	1	0	20.40	20.49	20.41	20.74	20.76	21.3
15	16QAM	1	37	20.32	20.51	20.34	20.57	20.63	
15	16QAM	1	74	20.43	20.54	20.32	20.46	20.59	
15	16QAM	36	0	20.57	20.70	20.61	20.66	20.73	21.3
15	16QAM	36	20	20.53	20.67	20.59	20.76	20.76	
15	16QAM	36	39	20.51	20.57	20.54	20.67	20.68	
15	16QAM	75	0	20.54	20.64	20.51	20.78	20.68	
15	64QAM	1	0	20.18	20.40	20.27	20.46	20.64	21.3
15	64QAM	1	37	20.13	20.36	20.21	20.28	20.46	
15	64QAM	1	74	20.26	20.33	20.19	20.29	20.43	
15	64QAM	36	0	20.51	20.65	20.58	20.65	20.71	21.3
15	64QAM	36	20	20.49	20.60	20.49	20.69	20.73	
15	64QAM	36	39	20.42	20.58	20.44	20.71	20.72	
15	64QAM	75	0	20.51	20.53	20.50	20.63	20.57	
15	256QAM	1	0	20.53	20.59	20.54	20.70	20.74	21.3
15	256QAM	1	37	20.32	20.44	20.43	20.52	20.54	
15	256QAM	1	74	20.23	20.37	20.38	20.49	20.55	
15	256QAM	36	0	20.48	20.74	20.61	20.76	20.70	21.3
15	256QAM	36	20	20.46	20.54	20.57	20.61	20.71	
15	256QAM	36	39	20.40	20.55	20.46	20.58	20.65	



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15	256QAM	75	0	20.39	20.59	20.47	20.59	20.61	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	20.40	20.60	20.50	20.67	20.78	21.30
10	QPSK	1	25	20.40	20.52	20.39	20.57	20.70	
10	QPSK	1	49	20.42	20.47	20.37	20.51	20.68	
10	QPSK	25	0	20.45	20.52	20.48	20.70	20.79	21.3
10	QPSK	25	12	20.52	20.54	20.47	20.63	20.66	
10	QPSK	25	25	20.48	20.53	20.46	20.71	20.61	
10	QPSK	50	0	20.42	20.57	20.46	20.66	20.71	
10	16QAM	1	0	20.41	20.56	20.44	20.69	20.70	21.3
10	16QAM	1	25	20.32	20.52	20.40	20.54	20.66	
10	16QAM	1	49	20.35	20.51	20.36	20.39	20.66	
10	16QAM	25	0	20.51	20.63	20.54	20.69	20.68	21.3
10	16QAM	25	12	20.49	20.61	20.57	20.81	20.74	
10	16QAM	25	25	20.56	20.63	20.52	20.70	20.73	
10	16QAM	50	0	20.54	20.64	20.51	20.70	20.69	
10	64QAM	1	0	20.22	20.37	20.31	20.44	20.62	21.3
10	64QAM	1	25	20.12	20.28	20.21	20.31	20.44	
10	64QAM	1	49	20.24	20.29	20.15	20.28	20.48	
10	64QAM	25	0	20.54	20.63	20.54	20.68	20.65	21.3
10	64QAM	25	12	20.50	20.66	20.49	20.64	20.65	
10	64QAM	25	25	20.47	20.64	20.50	20.63	20.70	
10	64QAM	50	0	20.51	20.55	20.50	20.71	20.53	
10	256QAM	1	0	20.54	20.65	20.57	20.70	20.81	21.3
10	256QAM	1	25	20.40	20.42	20.41	20.58	20.55	
10	256QAM	1	49	20.32	20.34	20.37	20.42	20.60	
10	256QAM	25	0	20.46	20.66	20.60	20.73	20.73	21.3
10	256QAM	25	12	20.39	20.53	20.50	20.70	20.68	
10	256QAM	25	25	20.38	20.55	20.51	20.59	20.69	
10	256QAM	50	0	20.38	20.61	20.48	20.64	20.69	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	20.40	20.62	20.44	20.62	20.79	21.30
5	QPSK	1	12	20.39	20.50	20.37	20.56	20.64	
5	QPSK	1	24	20.42	20.53	20.28	20.53	20.62	
5	QPSK	12	0	20.49	20.60	20.52	20.65	20.78	21.3
5	QPSK	12	7	20.50	20.61	20.50	20.69	20.68	
5	QPSK	12	13	20.50	20.51	20.49	20.63	20.62	
5	QPSK	25	0	20.42	20.59	20.49	20.64	20.67	
5	16QAM	1	0	20.41	20.58	20.42	20.69	20.77	21.3
5	16QAM	1	12	20.39	20.50	20.32	20.54	20.66	
5	16QAM	1	24	20.38	20.46	20.33	20.37	20.56	
5	16QAM	12	0	20.53	20.63	20.54	20.65	20.76	21.3
5	16QAM	12	7	20.50	20.58	20.56	20.79	20.73	
5	16QAM	12	13	20.58	20.60	20.54	20.70	20.77	
5	16QAM	25	0	20.53	20.68	20.54	20.77	20.71	
5	64QAM	1	0	20.18	20.39	20.35	20.50	20.55	21.3
5	64QAM	1	12	20.14	20.35	20.16	20.33	20.48	
5	64QAM	1	24	20.22	20.29	20.19	20.20	20.48	
5	64QAM	12	0	20.47	20.57	20.50	20.72	20.68	21.3
5	64QAM	12	7	20.55	20.65	20.52	20.63	20.70	
5	64QAM	12	13	20.43	20.65	20.44	20.66	20.73	
5	64QAM	25	0	20.49	20.59	20.57	20.64	20.52	
5	256QAM	1	0	20.54	20.59	20.50	20.68	20.74	21.3
5	256QAM	1	12	20.33	20.46	20.43	20.57	20.64	
5	256QAM	1	24	20.24	20.32	20.32	20.46	20.55	
5	256QAM	12	0	20.50	20.64	20.60	20.75	20.79	21.3
5	256QAM	12	7	20.43	20.59	20.53	20.67	20.75	
5	256QAM	12	13	20.41	20.58	20.51	20.49	20.68	
5	256QAM	25	0	20.38	20.60	20.49	20.58	20.65	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.90	25.74	26.00	26.12	26.26	27
20	QPSK	1	49	25.85	25.64	25.88	26.02	26.15	
20	QPSK	1	99	25.83	25.72	25.86	26.00	26.11	
20	QPSK	50	0	25.23	24.98	25.02	25.36	25.42	26
20	QPSK	50	24	25.20	24.97	24.97	25.32	25.37	
20	QPSK	50	50	25.13	24.94	24.94	25.29	25.33	
20	QPSK	100	0	25.16	24.94	24.97	25.34	25.38	
20	16QAM	1	0	25.21	25.10	25.36	25.46	25.62	26
20	16QAM	1	49	25.17	24.97	25.24	25.31	25.51	
20	16QAM	1	99	25.17	25.06	25.24	25.33	25.46	
20	16QAM	50	0	24.20	23.98	24.07	24.33	24.45	25
20	16QAM	50	24	24.17	23.96	24.03	24.30	24.41	
20	16QAM	50	50	24.13	23.92	24.00	24.27	24.37	
20	16QAM	100	0	24.14	23.91	24.01	24.30	24.39	
20	64QAM	1	0	24.07	23.92	24.08	24.26	24.43	25
20	64QAM	1	49	24.02	23.77	23.98	24.11	24.32	
20	64QAM	1	99	23.97	23.80	23.95	24.08	24.27	
20	64QAM	50	0	23.11	22.89	23.00	23.25	23.37	24
20	64QAM	50	24	23.08	22.86	22.95	23.21	23.32	
20	64QAM	50	50	23.06	22.85	22.94	23.20	23.29	
20	64QAM	100	0	23.07	22.84	22.95	23.22	23.32	
20	256QAM	1	0	21.13	20.95	21.03	21.32	21.45	22
20	256QAM	1	49	20.93	20.76	20.91	21.10	21.33	
20	256QAM	1	99	20.86	20.68	20.85	21.08	21.17	
20	256QAM	50	0	21.16	21.01	21.10	21.37	21.44	22
20	256QAM	50	24	21.12	20.94	21.03	21.25	21.37	
20	256QAM	50	50	21.03	20.85	20.99	21.27	21.41	
20	256QAM	100	0	21.05	20.84	21.02	21.23	21.43	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	25.84	25.55	25.82	26.00	26.11	27.00
15	QPSK	1	37	25.68	25.57	25.69	26.00	26.11	
15	QPSK	1	74	25.73	25.67	25.71	25.99	25.91	
15	QPSK	36	0	25.15	24.92	25.00	25.33	25.35	26
15	QPSK	36	20	25.05	24.81	24.94	25.21	25.36	
15	QPSK	36	39	25.04	24.76	24.85	25.26	25.15	
15	QPSK	75	0	25.07	24.85	24.90	25.28	25.31	
15	16QAM	1	0	25.02	24.97	25.36	25.43	25.51	26
15	16QAM	1	37	25.04	24.79	25.22	25.25	25.39	
15	16QAM	1	74	25.07	25.05	25.15	25.15	25.34	
15	16QAM	36	0	24.09	23.89	23.97	24.26	24.28	25
15	16QAM	36	20	24.10	23.92	23.90	24.11	24.21	
15	16QAM	36	39	23.99	23.92	23.93	24.13	24.34	
15	16QAM	75	0	24.06	23.89	23.84	24.23	24.21	
15	64QAM	1	0	23.93	23.84	24.06	24.13	24.42	25
15	64QAM	1	37	23.97	23.70	23.96	23.95	24.27	
15	64QAM	1	74	23.82	23.72	23.95	24.05	24.10	
15	64QAM	36	0	23.06	22.69	22.95	23.18	23.27	24
15	64QAM	36	20	22.93	22.75	22.75	23.03	23.20	
15	64QAM	36	39	22.97	22.73	22.84	23.13	23.24	
15	64QAM	75	0	23.06	22.74	22.94	23.16	23.12	
15	256QAM	1	0	21.03	20.81	20.86	21.32	21.37	22
15	256QAM	1	37	20.79	20.63	20.80	21.03	21.22	
15	256QAM	1	74	20.68	20.63	20.82	20.96	21.15	
15	256QAM	36	0	20.97	20.90	20.99	21.26	21.37	22
15	256QAM	36	20	20.94	20.84	20.97	21.10	21.24	
15	256QAM	36	39	21.02	20.80	20.87	21.17	21.32	



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15	256QAM	75	0	20.85	20.76	20.93	21.10	21.26	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	25.79	25.63	25.99	26.10	26.15	27.00
10	QPSK	1	25	25.85	25.60	25.71	25.86	26.15	
10	QPSK	1	49	25.80	25.62	25.66	25.80	26.04	
10	QPSK	25	0	25.08	24.84	24.98	25.29	25.41	26
10	QPSK	25	12	25.13	24.82	24.89	25.24	25.17	
10	QPSK	25	25	24.97	24.91	24.76	25.10	25.32	
10	QPSK	50	0	24.96	24.85	24.77	25.31	25.19	
10	16QAM	1	0	25.09	25.09	25.23	25.32	25.43	26
10	16QAM	1	25	25.17	24.79	25.13	25.16	25.35	
10	16QAM	1	49	25.02	24.89	25.13	25.27	25.46	
10	16QAM	25	0	24.06	23.85	24.06	24.18	24.28	25
10	16QAM	25	12	23.98	23.90	23.89	24.24	24.40	
10	16QAM	25	25	24.10	23.75	23.80	24.24	24.34	
10	16QAM	50	0	24.02	23.80	23.99	24.17	24.34	
10	64QAM	1	0	24.00	23.91	24.05	24.20	24.41	25
10	64QAM	1	25	23.82	23.62	23.82	23.96	24.23	
10	64QAM	1	49	23.92	23.66	23.78	23.99	24.19	
10	64QAM	25	0	23.06	22.76	22.95	23.23	23.26	24
10	64QAM	25	12	22.95	22.85	22.91	23.03	23.32	
10	64QAM	25	25	23.02	22.67	22.80	23.02	23.25	
10	64QAM	50	0	22.89	22.69	22.82	23.21	23.15	
10	256QAM	1	0	21.01	20.83	20.90	21.16	21.41	22
10	256QAM	1	25	20.84	20.69	20.77	20.94	21.30	
10	256QAM	1	49	20.84	20.60	20.73	21.00	21.11	
10	256QAM	25	0	21.10	20.91	20.92	21.25	21.26	22
10	256QAM	25	12	21.07	20.86	20.84	21.10	21.21	
10	256QAM	25	25	20.84	20.65	20.93	21.22	21.30	
10	256QAM	50	0	20.91	20.76	20.82	21.04	21.39	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	25.83	25.67	25.84	25.94	26.20	27.00
5	QPSK	1	12	25.78	25.59	25.81	26.00	26.08	
5	QPSK	1	24	25.82	25.52	25.86	25.90	26.09	
5	QPSK	12	0	25.12	24.97	24.96	25.20	25.34	26
5	QPSK	12	7	25.07	24.84	24.87	25.21	25.17	
5	QPSK	12	13	25.06	24.77	24.86	25.20	25.24	
5	QPSK	25	0	25.04	24.92	24.94	25.20	25.31	
5	16QAM	1	0	25.03	24.98	25.35	25.36	25.50	26
5	16QAM	1	12	25.00	24.92	25.24	25.18	25.49	
5	16QAM	1	24	24.97	24.86	25.07	25.26	25.29	
5	16QAM	12	0	24.05	23.79	23.90	24.27	24.45	25
5	16QAM	12	7	24.05	23.91	23.99	24.17	24.33	
5	16QAM	12	13	24.02	23.74	23.91	24.27	24.36	
5	16QAM	25	0	23.97	23.71	23.81	24.15	24.34	
5	64QAM	1	0	23.97	23.73	23.94	24.21	24.33	25
5	64QAM	1	12	23.91	23.73	23.84	24.06	24.28	
5	64QAM	1	24	23.91	23.60	23.75	23.95	24.11	
5	64QAM	12	0	22.98	22.81	22.84	23.19	23.35	24
5	64QAM	12	7	22.89	22.75	22.94	23.08	23.27	
5	64QAM	12	13	22.93	22.73	22.91	23.08	23.15	
5	64QAM	25	0	22.92	22.83	22.87	23.02	23.19	
5	256QAM	1	0	21.09	20.87	20.90	21.26	21.34	22
5	256QAM	1	12	20.83	20.64	20.73	20.98	21.14	
5	256QAM	1	24	20.70	20.53	20.81	20.99	21.04	
5	256QAM	12	0	21.08	20.89	20.92	21.17	21.28	22
5	256QAM	12	7	21.01	20.82	20.84	21.17	21.28	
5	256QAM	12	13	20.91	20.66	20.99	21.12	21.30	
5	256QAM	25	0	21.03	20.67	20.82	21.12	21.34	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.72	24.82	24.96	24.83	25.13	25.6
20	QPSK	1	49	24.57	24.79	24.86	24.70	25.00	
20	QPSK	1	99	24.56	24.84	24.74	24.56	25.00	
20	QPSK	50	0	24.90	24.92	25.04	25.00	25.10	25.6
20	QPSK	50	24	24.82	24.92	24.90	24.92	25.08	
20	QPSK	50	50	24.82	25.02	24.90	24.83	25.06	
20	QPSK	100	0	24.81	24.86	24.89	24.89	25.09	
20	16QAM	1	0	24.40	24.54	24.67	24.54	24.86	25.6
20	16QAM	1	49	24.39	24.59	24.61	24.36	24.81	
20	16QAM	1	99	24.34	24.60	24.48	24.36	24.76	
20	16QAM	50	0	23.89	23.98	24.08	23.99	24.27	25
20	16QAM	50	24	23.89	24.04	24.02	23.98	24.23	
20	16QAM	50	50	23.82	24.03	23.98	23.87	24.22	
20	16QAM	100	0	23.85	23.97	24.02	23.94	24.25	
20	64QAM	1	0	23.79	23.93	24.10	23.89	24.22	25
20	64QAM	1	49	23.72	23.88	23.94	23.81	24.19	
20	64QAM	1	99	23.86	24.00	23.82	23.63	24.13	
20	64QAM	50	0	22.87	22.97	23.01	22.90	23.21	24
20	64QAM	50	24	22.82	23.00	22.94	22.88	23.19	
20	64QAM	50	50	22.77	22.98	22.91	22.85	23.17	
20	64QAM	100	0	22.79	22.95	22.98	22.84	23.19	
20	256QAM	1	0	20.84	20.91	20.97	20.96	21.19	22
20	256QAM	1	49	20.70	20.85	20.94	20.88	21.03	
20	256QAM	1	99	20.63	20.63	20.73	20.72	20.87	
20	256QAM	50	0	20.84	20.93	21.00	21.01	21.21	22
20	256QAM	50	24	20.79	20.84	20.96	20.96	21.18	
20	256QAM	50	50	20.74	20.83	20.94	20.88	21.08	
20	256QAM	100	0	20.70	20.74	20.95	20.86	21.02	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	24.64	24.76	24.89	24.77	25.04	25.60
15	QPSK	1	37	24.50	24.71	24.79	24.61	24.92	
15	QPSK	1	74	24.47	24.77	24.64	24.49	24.92	
15	QPSK	36	0	24.80	24.85	24.95	24.95	25.06	25.6
15	QPSK	36	20	24.75	24.83	24.84	24.84	24.98	
15	QPSK	36	39	24.77	24.92	24.84	24.76	24.96	
15	QPSK	75	0	24.74	24.78	24.84	24.79	25.03	
15	16QAM	1	0	24.30	24.46	24.59	24.48	24.78	25.6
15	16QAM	1	37	24.31	24.54	24.51	24.30	24.71	
15	16QAM	1	74	24.29	24.55	24.42	24.26	24.71	
15	16QAM	36	0	23.80	23.88	23.99	23.89	24.17	25
15	16QAM	36	20	23.81	23.95	23.93	23.88	24.15	
15	16QAM	36	39	23.75	23.93	23.92	23.82	24.17	
15	16QAM	75	0	23.75	23.92	23.96	23.84	24.17	
15	64QAM	1	0	23.74	23.87	24.02	23.80	24.12	25
15	64QAM	1	37	23.62	23.83	23.84	23.76	24.14	
15	64QAM	1	74	23.76	23.94	23.75	23.55	24.08	
15	64QAM	36	0	22.79	22.89	22.91	22.81	23.15	24
15	64QAM	36	20	22.72	22.94	22.86	22.80	23.12	
15	64QAM	36	39	22.71	22.93	22.86	22.79	23.12	
15	64QAM	75	0	22.74	22.86	22.88	22.75	23.13	
15	256QAM	1	0	20.74	20.84	20.90	20.87	21.13	22
15	256QAM	1	37	20.65	20.79	20.85	20.83	20.94	
15	256QAM	1	74	20.57	20.57	20.64	20.62	20.82	
15	256QAM	36	0	20.78	20.85	20.91	20.95	21.13	22
15	256QAM	36	20	20.70	20.75	20.88	20.89	21.08	
15	256QAM	36	39	20.68	20.76	20.89	20.81	21.02	



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15	256QAM	75	0	20.60	20.66	20.86	20.80	20.94	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	24.65	24.77	24.89	24.74	25.06	25.60
10	QPSK	1	25	24.50	24.73	24.77	24.65	24.90	
10	QPSK	1	49	24.47	24.77	24.67	24.51	24.92	
10	QPSK	25	0	24.82	24.83	24.95	24.91	25.06	25.6
10	QPSK	25	12	24.75	24.83	24.82	24.82	24.98	
10	QPSK	25	25	24.76	24.97	24.80	24.73	25.01	
10	QPSK	50	0	24.76	24.78	24.80	24.84	25.02	
10	16QAM	1	0	24.32	24.48	24.58	24.48	24.80	25.6
10	16QAM	1	25	24.32	24.49	24.55	24.30	24.74	
10	16QAM	1	49	24.26	24.52	24.41	24.26	24.68	
10	16QAM	25	0	23.82	23.93	23.99	23.94	24.18	25
10	16QAM	25	12	23.83	23.97	23.93	23.89	24.15	
10	16QAM	25	25	23.75	23.95	23.88	23.81	24.14	
10	16QAM	50	0	23.80	23.89	23.97	23.88	24.15	
10	64QAM	1	0	23.73	23.86	24.04	23.84	24.15	25
10	64QAM	1	25	23.65	23.81	23.85	23.75	24.13	
10	64QAM	1	49	23.81	23.95	23.75	23.56	24.05	
10	64QAM	25	0	22.82	22.91	22.95	22.84	23.13	24
10	64QAM	25	12	22.75	22.92	22.84	22.82	23.11	
10	64QAM	25	25	22.67	22.88	22.82	22.80	23.07	
10	64QAM	50	0	22.71	22.87	22.89	22.75	23.14	
10	256QAM	1	0	20.74	20.81	20.91	20.90	21.14	22
10	256QAM	1	25	20.60	20.80	20.88	20.83	20.96	
10	256QAM	1	49	20.54	20.53	20.63	20.64	20.79	
10	256QAM	25	0	20.74	20.86	20.92	20.91	21.14	22
10	256QAM	25	12	20.69	20.78	20.91	20.91	21.09	
10	256QAM	25	25	20.66	20.73	20.86	20.79	21.01	
10	256QAM	50	0	20.60	20.65	20.86	20.79	20.94	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	24.63	24.74	24.91	24.74	25.03	25.60
5	QPSK	1	12	24.49	24.69	24.76	24.62	24.92	
5	QPSK	1	24	24.51	24.79	24.68	24.47	24.93	
5	QPSK	12	0	24.83	24.84	24.98	24.93	25.05	25.6
5	QPSK	12	7	24.77	24.83	24.82	24.84	24.98	
5	QPSK	12	13	24.74	24.93	24.80	24.77	25.01	
5	QPSK	25	0	24.74	24.79	24.80	24.81	25.02	
5	16QAM	1	0	24.34	24.44	24.57	24.48	24.81	25.6
5	16QAM	1	12	24.34	24.52	24.51	24.28	24.73	
5	16QAM	1	24	24.24	24.51	24.39	24.31	24.71	
5	16QAM	12	0	23.79	23.93	24.01	23.93	24.21	25
5	16QAM	12	7	23.79	23.95	23.97	23.93	24.17	
5	16QAM	12	13	23.73	23.93	23.89	23.79	24.12	
5	16QAM	25	0	23.77	23.92	23.95	23.86	24.20	
5	64QAM	1	0	23.72	23.88	24.01	23.83	24.13	25
5	64QAM	1	12	23.67	23.79	23.87	23.71	24.14	
5	64QAM	1	24	23.79	23.91	23.75	23.54	24.05	
5	64QAM	12	0	22.78	22.89	22.95	22.85	23.14	24
5	64QAM	12	7	22.72	22.91	22.84	22.81	23.13	
5	64QAM	12	13	22.72	22.92	22.83	22.77	23.08	
5	64QAM	25	0	22.74	22.88	22.90	22.79	23.10	
5	256QAM	1	0	20.74	20.82	20.87	20.87	21.09	22
5	256QAM	1	12	20.65	20.75	20.88	20.82	20.98	
5	256QAM	1	24	20.56	20.58	20.65	20.64	20.77	
5	256QAM	12	0	20.79	20.86	20.95	20.91	21.14	22
5	256QAM	12	7	20.71	20.75	20.89	20.86	21.09	
5	256QAM	12	13	20.69	20.76	20.85	20.79	20.98	
5	256QAM	25	0	20.64	20.64	20.87	20.78	20.93	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.63	25.77	25.88	25.85	25.89	27
20	QPSK	1	49	25.51	25.73	25.76	25.69	25.61	
20	QPSK	1	99	25.53	25.81	25.72	25.64	25.82	
20	QPSK	50	0	24.84	24.96	24.89	24.98	24.99	26
20	QPSK	50	24	24.77	24.90	24.85	24.96	24.97	
20	QPSK	50	50	24.71	24.90	24.82	24.87	24.97	
20	QPSK	100	0	24.71	24.89	24.86	24.94	24.97	
20	16QAM	1	0	24.82	25.07	25.13	25.12	25.16	26
20	16QAM	1	49	24.75	24.99	25.00	24.92	25.14	
20	16QAM	1	99	24.74	25.07	24.97	24.86	25.05	
20	16QAM	50	0	23.77	23.91	23.90	23.98	23.98	25
20	16QAM	50	24	23.72	23.90	23.87	23.92	23.98	
20	16QAM	50	50	23.68	23.91	23.83	23.85	23.97	
20	16QAM	100	0	23.70	23.88	23.85	23.90	23.97	
20	64QAM	1	0	23.67	23.83	23.94	23.95	23.98	25
20	64QAM	1	49	23.57	23.79	23.83	23.76	23.88	
20	64QAM	1	99	23.58	23.85	23.80	23.66	23.88	
20	64QAM	50	0	22.74	22.87	22.88	22.93	22.92	
20	64QAM	50	24	22.68	22.84	22.83	22.85	22.91	24
20	64QAM	50	50	22.66	22.86	22.79	22.82	22.94	
20	64QAM	100	0	22.68	22.85	22.82	22.84	22.93	
20	256QAM	1	0	20.74	20.80	20.78	20.94	20.88	22
20	256QAM	1	49	20.67	20.66	20.72	20.79	20.80	
20	256QAM	1	99	20.57	20.62	20.62	20.76	20.65	
20	256QAM	50	0	20.77	20.84	20.89	20.95	20.92	22
20	256QAM	50	24	20.74	20.75	20.81	20.90	20.90	
20	256QAM	50	50	20.70	20.80	20.79	20.94	20.83	
20	256QAM	100	0	20.67	20.75	20.76	20.86	20.81	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	25.44	25.58	25.78	25.65	25.69	27.00
15	QPSK	1	37	25.49	25.54	25.74	25.57	25.52	
15	QPSK	1	74	25.37	25.63	25.64	25.58	25.79	
15	QPSK	36	0	24.70	24.85	24.81	24.89	24.78	26
15	QPSK	36	20	24.71	24.79	24.72	24.91	24.96	
15	QPSK	36	39	24.66	24.79	24.76	24.71	24.93	
15	QPSK	75	0	24.63	24.70	24.71	24.74	24.87	
15	16QAM	1	0	24.79	24.93	25.05	25.10	25.13	26
15	16QAM	1	37	24.64	24.81	24.86	24.83	25.01	
15	16QAM	1	74	24.56	25.05	24.84	24.66	24.98	
15	16QAM	36	0	23.72	23.71	23.73	23.96	23.93	25
15	16QAM	36	20	23.67	23.89	23.67	23.80	23.90	
15	16QAM	36	39	23.55	23.79	23.77	23.82	23.80	
15	16QAM	75	0	23.60	23.71	23.85	23.83	23.93	
15	64QAM	1	0	23.62	23.72	23.82	23.77	23.84	25
15	64QAM	1	37	23.48	23.61	23.81	23.63	23.86	
15	64QAM	1	74	23.40	23.79	23.80	23.63	23.85	
15	64QAM	36	0	22.55	22.75	22.71	22.92	22.77	24
15	64QAM	36	20	22.52	22.82	22.63	22.83	22.77	
15	64QAM	36	39	22.64	22.68	22.59	22.78	22.90	
15	64QAM	75	0	22.53	22.67	22.73	22.80	22.82	
15	256QAM	1	0	20.65	20.79	20.66	20.93	20.78	22
15	256QAM	1	37	20.48	20.66	20.63	20.73	20.78	
15	256QAM	1	74	20.54	20.60	20.52	20.72	20.60	
15	256QAM	36	0	20.72	20.77	20.82	20.78	20.88	22
15	256QAM	36	20	20.68	20.69	20.81	20.74	20.81	
15	256QAM	36	39	20.62	20.63	20.77	20.88	20.65	



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15	256QAM	75	0	20.49	20.64	20.61	20.81	20.61	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	25.59	25.76	25.78	25.70	25.85	27.00
10	QPSK	1	25	25.51	25.69	25.73	25.62	25.43	
10	QPSK	1	49	25.36	25.62	25.59	25.53	25.81	
10	QPSK	25	0	24.82	24.80	24.83	24.97	24.84	26
10	QPSK	25	12	24.59	24.72	24.65	24.89	24.95	
10	QPSK	25	25	24.58	24.90	24.78	24.68	24.85	
10	QPSK	50	0	24.67	24.70	24.83	24.84	24.88	
10	16QAM	1	0	24.72	25.03	25.05	24.93	25.00	26
10	16QAM	1	25	24.60	24.92	24.99	24.82	25.02	
10	16QAM	1	49	24.59	25.03	24.97	24.81	24.99	
10	16QAM	25	0	23.61	23.84	23.77	23.97	23.85	25
10	16QAM	25	12	23.66	23.90	23.85	23.73	23.81	
10	16QAM	25	25	23.54	23.82	23.63	23.70	23.81	
10	16QAM	50	0	23.66	23.68	23.81	23.80	23.80	
10	64QAM	1	0	23.56	23.81	23.91	23.93	23.80	25
10	64QAM	1	25	23.48	23.70	23.73	23.76	23.80	
10	64QAM	1	49	23.49	23.82	23.75	23.66	23.73	
10	64QAM	25	0	22.71	22.68	22.73	22.76	22.82	24
10	64QAM	25	12	22.55	22.74	22.79	22.72	22.84	
10	64QAM	25	25	22.51	22.80	22.65	22.63	22.92	
10	64QAM	50	0	22.50	22.76	22.75	22.79	22.78	
10	256QAM	1	0	20.64	20.74	20.72	20.86	20.84	22
10	256QAM	1	25	20.61	20.46	20.53	20.71	20.63	
10	256QAM	1	49	20.56	20.47	20.55	20.65	20.53	
10	256QAM	25	0	20.68	20.81	20.71	20.82	20.83	22
10	256QAM	25	12	20.56	20.70	20.76	20.82	20.70	
10	256QAM	25	25	20.64	20.71	20.68	20.84	20.68	
10	256QAM	50	0	20.56	20.69	20.59	20.67	20.78	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	25.63	25.63	25.83	25.69	25.79	27.00
5	QPSK	1	12	25.36	25.69	25.56	25.56	25.55	
5	QPSK	1	24	25.52	25.68	25.61	25.48	25.74	
5	QPSK	12	0	24.64	24.93	24.74	24.92	24.92	26
5	QPSK	12	7	24.65	24.87	24.79	24.95	24.87	
5	QPSK	12	13	24.60	24.76	24.74	24.70	24.85	
5	QPSK	25	0	24.64	24.81	24.70	24.85	24.88	
5	16QAM	1	0	24.63	24.88	24.93	25.07	24.97	26
5	16QAM	1	12	24.60	24.93	24.90	24.86	25.00	
5	16QAM	1	24	24.62	24.97	24.88	24.81	25.01	
5	16QAM	12	0	23.68	23.86	23.85	23.94	23.79	25
5	16QAM	12	7	23.59	23.86	23.85	23.79	23.95	
5	16QAM	12	13	23.58	23.72	23.66	23.84	23.96	
5	16QAM	25	0	23.57	23.76	23.73	23.83	23.91	
5	64QAM	1	0	23.65	23.66	23.74	23.90	23.91	25
5	64QAM	1	12	23.46	23.59	23.77	23.74	23.73	
5	64QAM	1	24	23.38	23.85	23.78	23.48	23.85	
5	64QAM	12	0	22.71	22.73	22.77	22.91	22.92	24
5	64QAM	12	7	22.54	22.75	22.72	22.82	22.80	
5	64QAM	12	13	22.66	22.79	22.73	22.62	22.94	
5	64QAM	25	0	22.56	22.65	22.63	22.84	22.88	
5	256QAM	1	0	20.58	20.80	20.78	20.85	20.81	22
5	256QAM	1	12	20.50	20.58	20.65	20.76	20.60	
5	256QAM	1	24	20.53	20.50	20.53	20.63	20.47	
5	256QAM	12	0	20.61	20.80	20.72	20.77	20.87	22
5	256QAM	12	7	20.55	20.67	20.81	20.78	20.82	
5	256QAM	12	13	20.58	20.74	20.62	20.90	20.70	
5	256QAM	25	0	20.63	20.60	20.75	20.82	20.75	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	19.80	19.90	19.83	19.91	19.93	21
20	QPSK	1	49	19.66	19.68	19.54	19.69	19.90	
20	QPSK	1	99	19.61	19.68	19.51	19.67	19.78	
20	QPSK	50	0	19.62	19.73	19.67	19.85	19.90	21
20	QPSK	50	24	19.61	19.70	19.63	19.82	19.84	
20	QPSK	50	50	19.62	19.69	19.57	19.81	19.78	
20	QPSK	100	0	19.60	19.69	19.63	19.82	19.84	
20	16QAM	1	0	19.79	19.89	19.82	19.90	19.92	21
20	16QAM	1	49	19.64	19.83	19.67	19.80	19.89	
20	16QAM	1	99	19.71	19.81	19.64	19.76	19.92	
20	16QAM	50	0	19.64	19.78	19.71	19.88	19.92	21
20	16QAM	50	24	19.63	19.77	19.67	19.84	19.88	
20	16QAM	50	50	19.63	19.75	19.61	19.81	19.83	
20	16QAM	100	0	19.61	19.75	19.66	19.83	19.88	
20	64QAM	1	0	19.33	19.50	19.44	19.56	19.62	21
20	64QAM	1	49	19.33	19.42	19.37	19.54	19.60	
20	64QAM	1	99	19.29	19.41	19.25	19.39	19.48	
20	64QAM	50	0	19.65	19.77	19.72	19.88	19.92	21
20	64QAM	50	24	19.63	19.74	19.67	19.83	19.90	
20	64QAM	50	50	19.63	19.73	19.62	19.81	19.85	
20	64QAM	100	0	19.62	19.75	19.64	19.84	19.84	
20	256QAM	1	0	19.22	19.32	19.33	19.48	19.55	20
20	256QAM	1	49	19.09	19.27	19.30	19.40	19.46	
20	256QAM	1	99	18.97	19.08	19.16	19.29	19.30	
20	256QAM	50	0	19.47	19.58	19.66	19.73	19.80	20
20	256QAM	50	24	19.46	19.53	19.57	19.68	19.78	
20	256QAM	50	50	19.29	19.41	19.49	19.55	19.68	
20	256QAM	100	0	19.32	19.40	19.50	19.61	19.70	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	19.70	19.72	19.67	19.76	19.78	21.00
15	QPSK	1	37	19.49	19.53	19.43	19.58	19.78	
15	QPSK	1	74	19.47	19.50	19.37	19.49	19.63	
15	QPSK	36	0	19.43	19.62	19.51	19.65	19.73	21
15	QPSK	36	20	19.42	19.51	19.50	19.70	19.69	
15	QPSK	36	39	19.44	19.49	19.38	19.64	19.62	
15	QPSK	75	0	19.48	19.57	19.44	19.72	19.65	
15	16QAM	1	0	19.68	19.77	19.68	19.75	19.78	21
15	16QAM	1	37	19.54	19.65	19.50	19.69	19.78	
15	16QAM	1	74	19.55	19.67	19.46	19.56	19.79	
15	16QAM	36	0	19.49	19.58	19.52	19.74	19.82	21
15	16QAM	36	20	19.53	19.64	19.47	19.66	19.78	
15	16QAM	36	39	19.43	19.57	19.46	19.63	19.72	
15	16QAM	75	0	19.41	19.59	19.56	19.70	19.72	
15	64QAM	1	0	19.19	19.37	19.28	19.37	19.49	21
15	64QAM	1	37	19.18	19.23	19.21	19.36	19.41	
15	64QAM	1	74	19.09	19.21	19.13	19.25	19.34	
15	64QAM	36	0	19.48	19.58	19.62	19.69	19.79	21
15	64QAM	36	20	19.46	19.55	19.53	19.69	19.79	
15	64QAM	36	39	19.53	19.59	19.44	19.66	19.65	
15	64QAM	75	0	19.43	19.64	19.53	19.74	19.72	
15	256QAM	1	0	19.03	19.22	19.13	19.33	19.41	20
15	256QAM	1	37	18.99	19.14	19.18	19.28	19.34	
15	256QAM	1	74	18.78	18.93	18.98	19.09	19.17	
15	256QAM	36	0	19.33	19.48	19.55	19.58	19.68	20
15	256QAM	36	20	19.26	19.35	19.41	19.48	19.59	
15	256QAM	36	39	19.18	19.30	19.39	19.38	19.54	



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15	256QAM	75	0	19.22	19.20	19.33	19.46	19.60	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	19.62	19.73	19.68	19.77	19.75	21.00
10	QPSK	1	25	19.53	19.49	19.38	19.59	19.72	
10	QPSK	1	49	19.49	19.54	19.31	19.54	19.64	
10	QPSK	25	0	19.45	19.56	19.49	19.65	19.71	21
10	QPSK	25	12	19.46	19.55	19.53	19.69	19.66	
10	QPSK	25	25	19.46	19.55	19.43	19.70	19.66	
10	QPSK	50	0	19.43	19.49	19.48	19.64	19.64	
10	16QAM	1	0	19.62	19.72	19.70	19.71	19.73	21
10	16QAM	1	25	19.45	19.71	19.50	19.69	19.76	
10	16QAM	1	49	19.55	19.63	19.48	19.64	19.81	
10	16QAM	25	0	19.44	19.58	19.58	19.70	19.73	21
10	16QAM	25	12	19.45	19.57	19.48	19.71	19.68	
10	16QAM	25	25	19.43	19.58	19.45	19.71	19.69	
10	16QAM	50	0	19.49	19.58	19.50	19.65	19.74	
10	64QAM	1	0	19.22	19.39	19.24	19.39	19.42	21
10	64QAM	1	25	19.23	19.29	19.24	19.37	19.42	
10	64QAM	1	49	19.16	19.28	19.06	19.28	19.32	
10	64QAM	25	0	19.48	19.64	19.56	19.68	19.76	21
10	64QAM	25	12	19.50	19.54	19.49	19.73	19.71	
10	64QAM	25	25	19.45	19.61	19.51	19.69	19.74	
10	64QAM	50	0	19.47	19.64	19.53	19.68	19.71	
10	256QAM	1	0	19.12	19.21	19.23	19.32	19.42	20
10	256QAM	1	25	18.94	19.10	19.16	19.21	19.31	
10	256QAM	1	49	18.86	18.93	19.01	19.09	19.20	
10	256QAM	25	0	19.32	19.42	19.54	19.54	19.69	20
10	256QAM	25	12	19.35	19.34	19.47	19.53	19.62	
10	256QAM	25	25	19.19	19.24	19.33	19.44	19.54	
10	256QAM	50	0	19.16	19.22	19.38	19.46	19.54	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	19.69	19.74	19.71	19.79	19.76	21.00
5	QPSK	1	12	19.52	19.52	19.42	19.54	19.71	
5	QPSK	1	24	19.50	19.52	19.34	19.50	19.66	
5	QPSK	12	0	19.47	19.57	19.48	19.68	19.74	21
5	QPSK	12	7	19.43	19.57	19.46	19.70	19.73	
5	QPSK	12	13	19.48	19.56	19.46	19.70	19.64	
5	QPSK	25	0	19.44	19.52	19.44	19.66	19.70	
5	16QAM	1	0	19.64	19.75	19.71	19.74	19.79	21
5	16QAM	1	12	19.50	19.73	19.56	19.68	19.72	
5	16QAM	1	24	19.55	19.70	19.52	19.57	19.72	
5	16QAM	12	0	19.47	19.68	19.57	19.78	19.75	21
5	16QAM	12	7	19.52	19.60	19.51	19.69	19.69	
5	16QAM	12	13	19.44	19.65	19.45	19.63	19.68	
5	16QAM	25	0	19.50	19.57	19.55	19.66	19.71	
5	64QAM	1	0	19.13	19.33	19.29	19.40	19.47	21
5	64QAM	1	12	19.18	19.25	19.17	19.34	19.41	
5	64QAM	1	24	19.18	19.21	19.11	19.27	19.31	
5	64QAM	12	0	19.52	19.58	19.59	19.76	19.76	21
5	64QAM	12	7	19.44	19.64	19.48	19.66	19.73	
5	64QAM	12	13	19.51	19.59	19.49	19.70	19.71	
5	64QAM	25	0	19.48	19.61	19.50	19.67	19.69	
5	256QAM	1	0	19.11	19.13	19.19	19.34	19.39	20
5	256QAM	1	12	18.96	19.13	19.14	19.21	19.34	
5	256QAM	1	24	18.78	18.94	19.04	19.16	19.14	
5	256QAM	12	0	19.35	19.40	19.52	19.57	19.70	20
5	256QAM	12	7	19.30	19.34	19.38	19.56	19.63	
5	256QAM	12	13	19.12	19.21	19.38	19.43	19.57	
5	256QAM	25	0	19.19	19.26	19.34	19.48	19.51	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.22	24.05	24.13	24.40	24.53	25
20	QPSK	1	49	24.22	23.93	24.08	24.35	24.48	
20	QPSK	1	99	24.13	23.94	24.04	24.31	24.42	
20	QPSK	50	0	23.26	23.03	23.13	23.46	23.54	24
20	QPSK	50	24	23.24	23.01	23.08	23.37	23.44	
20	QPSK	50	50	23.19	22.98	23.03	23.36	23.39	
20	QPSK	100	0	23.21	22.99	23.07	23.39	23.43	
20	16QAM	1	0	23.34	23.18	23.26	23.51	23.67	24
20	16QAM	1	49	23.25	23.00	23.13	23.34	23.55	
20	16QAM	1	99	23.25	23.02	23.13	23.33	23.52	
20	16QAM	50	0	22.27	22.05	22.15	22.43	22.53	23
20	16QAM	50	24	22.27	22.03	22.11	22.40	22.50	
20	16QAM	50	50	22.23	22.00	22.08	22.37	22.45	
20	16QAM	100	0	22.24	22.02	22.10	22.40	22.49	
20	64QAM	1	0	21.93	21.74	21.84	22.13	22.24	23
20	64QAM	1	49	21.89	21.65	21.75	22.03	22.15	
20	64QAM	1	99	21.82	21.64	21.68	21.95	22.05	
20	64QAM	50	0	21.26	21.02	21.13	21.41	21.53	22
20	64QAM	50	24	21.24	20.99	21.04	21.36	21.46	
20	64QAM	50	50	21.20	20.97	21.06	21.35	21.45	
20	64QAM	100	0	21.20	20.99	21.07	21.37	21.45	
20	256QAM	1	0	19.02	18.89	18.96	19.29	19.35	20
20	256QAM	1	49	18.90	18.79	18.86	19.18	19.17	
20	256QAM	1	99	18.75	18.66	18.79	19.06	19.08	
20	256QAM	50	0	19.19	19.05	19.21	19.48	19.53	20
20	256QAM	50	24	19.14	18.98	19.15	19.44	19.47	
20	256QAM	50	50	19.08	18.92	19.07	19.35	19.38	
20	256QAM	100	0	19.16	18.99	19.11	19.36	19.41	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	24.18	23.90	24.05	24.36	24.35	25.00
15	QPSK	1	37	24.18	23.84	23.89	24.26	24.31	
15	QPSK	1	74	23.97	23.80	23.85	24.30	24.22	
15	QPSK	36	0	23.14	22.86	22.97	23.28	23.38	24
15	QPSK	36	20	23.21	22.83	22.97	23.28	23.43	
15	QPSK	36	39	23.09	22.90	23.01	23.31	23.29	
15	QPSK	75	0	23.13	22.84	22.87	23.31	23.27	
15	16QAM	1	0	23.20	23.03	23.26	23.47	23.58	24
15	16QAM	1	37	23.18	22.98	23.05	23.25	23.36	
15	16QAM	1	74	23.12	23.02	23.02	23.19	23.48	
15	16QAM	36	0	22.20	21.86	21.95	22.36	22.35	23
15	16QAM	36	20	22.14	21.99	21.98	22.36	22.38	
15	16QAM	36	39	22.07	21.92	22.02	22.27	22.35	
15	16QAM	75	0	22.19	21.93	22.00	22.39	22.30	
15	64QAM	1	0	21.77	21.69	21.83	22.08	22.22	23
15	64QAM	1	37	21.85	21.53	21.55	21.87	22.09	
15	64QAM	1	74	21.67	21.50	21.58	21.86	22.03	
15	64QAM	36	0	21.26	21.02	20.96	21.27	21.37	22
15	64QAM	36	20	21.18	20.84	20.95	21.22	21.43	
15	64QAM	36	39	21.20	20.85	20.89	21.34	21.44	
15	64QAM	75	0	21.01	20.88	20.92	21.20	21.27	
15	256QAM	1	0	19.02	18.72	18.83	19.25	19.17	20
15	256QAM	1	37	18.70	18.70	18.73	19.07	18.97	
15	256QAM	1	74	18.65	18.63	18.63	19.02	18.95	
15	256QAM	36	0	19.09	18.87	19.06	19.35	19.46	20
15	256QAM	36	20	18.96	18.89	18.96	19.43	19.45	
15	256QAM	36	39	18.98	18.74	18.89	19.34	19.29	



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15	256QAM	75	0	19.05	18.98	19.01	19.31	19.37	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	24.02	24.01	24.00	24.27	24.48	25.00
10	QPSK	1	25	24.06	23.73	24.04	24.19	24.43	
10	QPSK	1	49	24.12	23.76	23.91	24.15	24.25	
10	QPSK	25	0	23.11	22.94	23.04	23.29	23.43	24
10	QPSK	25	12	23.24	22.90	22.91	23.32	23.38	
10	QPSK	25	25	23.00	22.96	23.00	23.20	23.29	
10	QPSK	50	0	23.19	22.88	23.05	23.26	23.38	
10	16QAM	1	0	23.34	23.00	23.18	23.47	23.64	24
10	16QAM	1	25	23.22	22.93	23.04	23.20	23.43	
10	16QAM	1	49	23.10	22.98	23.06	23.21	23.51	
10	16QAM	25	0	22.13	21.95	22.08	22.31	22.50	23
10	16QAM	25	12	22.24	21.83	21.91	22.23	22.46	
10	16QAM	25	25	22.07	21.92	21.99	22.35	22.43	
10	16QAM	50	0	22.07	21.84	22.04	22.24	22.40	
10	64QAM	1	0	21.76	21.68	21.65	22.13	22.13	23
10	64QAM	1	25	21.73	21.52	21.73	21.91	22.14	
10	64QAM	1	49	21.67	21.57	21.64	21.75	21.90	
10	64QAM	25	0	21.26	20.87	21.03	21.29	21.34	22
10	64QAM	25	12	21.08	20.80	20.89	21.31	21.34	
10	64QAM	25	25	21.13	20.93	21.04	21.34	21.39	
10	64QAM	50	0	21.06	20.98	20.91	21.27	21.41	
10	256QAM	1	0	18.86	18.71	18.87	19.15	19.26	20
10	256QAM	1	25	18.89	18.77	18.67	19.03	19.01	
10	256QAM	1	49	18.62	18.60	18.62	19.06	19.02	
10	256QAM	25	0	19.13	19.01	19.17	19.45	19.39	20
10	256QAM	25	12	18.95	18.85	18.99	19.27	19.27	
10	256QAM	25	25	18.89	18.74	18.99	19.27	19.21	
10	256QAM	50	0	19.14	18.89	19.02	19.34	19.23	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	24.02	23.87	24.04	24.31	24.48	25.00
5	QPSK	1	12	24.06	23.80	24.02	24.17	24.42	
5	QPSK	1	24	23.98	23.85	23.98	24.23	24.41	
5	QPSK	12	0	23.13	22.96	23.11	23.32	23.48	24
5	QPSK	12	7	23.07	22.94	23.01	23.26	23.41	
5	QPSK	12	13	23.00	22.94	23.01	23.27	23.38	
5	QPSK	25	0	23.03	22.93	23.07	23.30	23.26	
5	16QAM	1	0	23.24	23.11	23.16	23.32	23.59	24
5	16QAM	1	12	23.15	22.80	23.07	23.27	23.46	
5	16QAM	1	24	23.17	22.83	22.93	23.33	23.38	
5	16QAM	12	0	22.11	22.03	22.06	22.30	22.50	23
5	16QAM	12	7	22.10	21.86	21.98	22.35	22.39	
5	16QAM	12	13	22.11	21.89	21.95	22.26	22.30	
5	16QAM	25	0	22.17	21.99	22.00	22.36	22.44	
5	64QAM	1	0	21.79	21.55	21.84	22.13	22.19	23
5	64QAM	1	12	21.76	21.45	21.69	21.93	22.09	
5	64QAM	1	24	21.69	21.46	21.68	21.88	21.93	
5	64QAM	12	0	21.09	20.86	21.01	21.31	21.48	22
5	64QAM	12	7	21.17	20.93	20.91	21.29	21.32	
5	64QAM	12	13	21.18	20.90	20.92	21.27	21.36	
5	64QAM	25	0	21.18	20.86	20.96	21.32	21.38	
5	256QAM	1	0	18.82	18.71	18.82	19.14	19.18	20
5	256QAM	1	12	18.70	18.75	18.69	19.04	19.09	
5	256QAM	1	24	18.59	18.60	18.62	18.91	18.96	
5	256QAM	12	0	19.05	18.91	19.01	19.43	19.38	20
5	256QAM	12	7	18.96	18.81	18.99	19.26	19.44	
5	256QAM	12	13	19.05	18.86	18.90	19.16	19.18	
5	256QAM	25	0	19.11	18.85	18.96	19.31	19.27	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	24.6
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.18	23.32	23.37	23.29	23.63	24.6
20	QPSK	1	49	23.12	23.32	23.29	23.25	23.61	
20	QPSK	1	99	23.11	23.29	23.14	23.20	23.58	
20	QPSK	50	0	22.78	22.95	22.91	22.92	23.28	24
20	QPSK	50	24	22.76	22.93	22.89	22.86	23.27	
20	QPSK	50	50	22.75	22.91	22.80	22.84	23.25	
20	QPSK	100	0	22.79	22.92	22.88	22.87	23.22	24
20	16QAM	1	0	22.85	23.02	23.08	22.98	23.24	
20	16QAM	1	49	22.84	22.92	22.95	22.79	23.17	
20	16QAM	1	99	22.70	22.98	22.84	22.74	23.15	23
20	16QAM	50	0	21.77	21.89	21.96	21.86	22.15	
20	16QAM	50	24	21.74	21.91	21.92	21.81	22.17	
20	16QAM	50	50	21.71	21.92	21.83	21.77	22.17	23
20	16QAM	100	0	21.74	21.88	21.89	21.78	22.17	
20	64QAM	1	0	21.44	21.62	21.60	21.61	21.93	
20	64QAM	1	49	21.44	21.65	21.58	21.56	21.88	22
20	64QAM	1	99	21.40	21.66	21.37	21.44	21.79	
20	64QAM	50	0	20.79	20.93	20.88	20.89	21.23	
20	64QAM	50	24	20.74	20.94	20.84	20.84	21.20	20
20	64QAM	50	50	20.73	20.92	20.78	20.79	21.17	
20	64QAM	100	0	20.74	20.94	20.85	20.84	21.21	
20	256QAM	1	0	18.70	18.76	19.04	18.90	19.09	20
20	256QAM	1	49	18.66	18.66	18.78	18.60	19.01	
20	256QAM	1	99	18.42	18.49	18.66	18.42	18.90	
20	256QAM	50	0	18.90	18.81	19.09	18.88	19.22	20
20	256QAM	50	24	18.73	18.80	19.13	18.95	19.31	
20	256QAM	50	50	18.70	18.71	18.98	18.77	19.10	
20	256QAM	100	0	18.86	18.75	18.90	18.81	19.20	Tune-up limit (dBm)
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	24.60
15	QPSK	1	0	23.16	23.22	23.21	23.17	23.52	
15	QPSK	1	37	23.12	23.16	23.12	23.14	23.59	24
15	QPSK	1	74	23.09	23.15	23.06	23.20	23.39	
15	QPSK	36	0	22.73	22.78	22.80	22.86	23.18	
15	QPSK	36	20	22.58	22.89	22.69	22.73	23.08	24
15	QPSK	36	39	22.67	22.79	22.60	22.77	23.10	
15	QPSK	75	0	22.66	22.90	22.76	22.79	23.10	
15	16QAM	1	0	22.65	22.88	23.05	22.84	23.14	24
15	16QAM	1	37	22.80	22.89	22.91	22.71	23.14	
15	16QAM	1	74	22.62	22.98	22.76	22.71	23.01	
15	16QAM	36	0	21.65	21.74	21.81	21.78	22.03	23
15	16QAM	36	20	21.68	21.75	21.79	21.72	21.98	
15	16QAM	36	39	21.51	21.91	21.68	21.57	22.02	
15	16QAM	75	0	21.68	21.85	21.73	21.71	22.17	23
15	64QAM	1	0	21.40	21.59	21.59	21.46	21.75	
15	64QAM	1	37	21.38	21.45	21.47	21.39	21.88	
15	64QAM	1	74	21.37	21.50	21.24	21.33	21.69	22
15	64QAM	36	0	20.65	20.93	20.86	20.78	21.21	
15	64QAM	36	20	20.66	20.89	20.68	20.80	21.13	
15	64QAM	36	39	20.73	20.77	20.58	20.64	21.07	20
15	64QAM	75	0	20.72	20.82	20.78	20.75	21.17	
15	256QAM	1	0	18.52	18.65	18.99	18.75	18.98	
15	256QAM	1	37	18.56	18.50	18.70	18.60	18.82	20
15	256QAM	1	74	18.40	18.30	18.57	18.28	18.84	
15	256QAM	36	0	18.70	18.75	18.93	18.88	19.11	
15	256QAM	36	20	18.54	18.73	19.12	18.84	19.28	20
15	256QAM	36	39	18.57	18.57	18.91	18.75	18.95	



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15	256QAM	75	0	18.76	18.61	18.79	18.66	19.05	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	23.17	23.18	23.22	23.18	23.50	24.60
10	QPSK	1	25	22.96	23.18	23.27	23.18	23.51	
10	QPSK	1	49	22.97	23.22	23.10	23.20	23.42	
10	QPSK	25	0	22.65	22.82	22.89	22.79	23.24	24
10	QPSK	25	12	22.59	22.80	22.83	22.67	23.21	
10	QPSK	25	25	22.67	22.85	22.64	22.69	23.14	
10	QPSK	50	0	22.73	22.83	22.88	22.71	23.08	
10	16QAM	1	0	22.76	22.96	23.08	22.96	23.20	24
10	16QAM	1	25	22.68	22.92	22.78	22.77	23.08	
10	16QAM	1	49	22.57	22.89	22.74	22.69	23.00	
10	16QAM	25	0	21.63	21.72	21.88	21.83	22.05	23
10	16QAM	25	12	21.64	21.82	21.86	21.77	22.06	
10	16QAM	25	25	21.58	21.88	21.82	21.61	22.10	
10	16QAM	50	0	21.68	21.73	21.88	21.67	22.02	
10	64QAM	1	0	21.32	21.53	21.40	21.49	21.90	23
10	64QAM	1	25	21.37	21.58	21.52	21.46	21.70	
10	64QAM	1	49	21.20	21.57	21.25	21.37	21.72	
10	64QAM	25	0	20.64	20.81	20.77	20.70	21.10	22
10	64QAM	25	12	20.62	20.90	20.66	20.69	21.01	
10	64QAM	25	25	20.62	20.81	20.72	20.71	21.00	
10	64QAM	50	0	20.66	20.79	20.80	20.75	21.12	
10	256QAM	1	0	18.59	18.71	18.90	18.78	19.03	20
10	256QAM	1	25	18.58	18.49	18.66	18.49	19.01	
10	256QAM	1	49	18.30	18.30	18.47	18.36	18.77	
10	256QAM	25	0	18.82	18.68	19.00	18.79	19.02	20
10	256QAM	25	12	18.62	18.70	19.08	18.75	19.22	
10	256QAM	25	25	18.61	18.55	18.81	18.59	19.06	
10	256QAM	50	0	18.70	18.61	18.78	18.72	19.00	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	23.18	23.15	23.33	23.13	23.45	24.60
5	QPSK	1	12	22.99	23.25	23.27	23.11	23.43	
5	QPSK	1	24	23.01	23.15	23.03	23.07	23.49	
5	QPSK	12	0	22.69	22.84	22.76	22.84	23.12	24
5	QPSK	12	7	22.72	22.86	22.84	22.85	23.20	
5	QPSK	12	13	22.57	22.75	22.80	22.68	23.10	
5	QPSK	25	0	22.59	22.81	22.84	22.73	23.22	
5	16QAM	1	0	22.80	22.85	23.06	22.89	23.15	24
5	16QAM	1	12	22.69	22.80	22.78	22.77	23.08	
5	16QAM	1	24	22.51	22.94	22.84	22.60	23.04	
5	16QAM	12	0	21.73	21.78	21.88	21.68	22.01	23
5	16QAM	12	7	21.54	21.75	21.86	21.79	21.97	
5	16QAM	12	13	21.70	21.74	21.71	21.63	22.10	
5	16QAM	25	0	21.62	21.68	21.70	21.77	22.15	
5	64QAM	1	0	21.34	21.44	21.59	21.55	21.82	23
5	64QAM	1	12	21.29	21.51	21.55	21.46	21.79	
5	64QAM	1	24	21.32	21.53	21.19	21.40	21.59	
5	64QAM	12	0	20.71	20.77	20.75	20.86	21.22	22
5	64QAM	12	7	20.54	20.75	20.77	20.83	21.20	
5	64QAM	12	13	20.62	20.84	20.76	20.69	21.07	
5	64QAM	25	0	20.55	20.85	20.80	20.71	21.20	
5	256QAM	1	0	18.70	18.74	18.91	18.84	19.01	20
5	256QAM	1	12	18.46	18.48	18.64	18.60	18.94	
5	256QAM	1	24	18.33	18.38	18.63	18.28	18.83	
5	256QAM	12	0	18.79	18.68	18.96	18.84	19.05	20
5	256QAM	12	7	18.73	18.80	19.03	18.82	19.20	
5	256QAM	12	13	18.56	18.65	18.86	18.62	18.97	
5	256QAM	25	0	18.86	18.55	18.71	18.64	19.10	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.83	24.00	23.92	24.09	24.16	25
20	QPSK	1	49	23.82	24.05	23.92	24.02	24.09	
20	QPSK	1	99	23.74	23.97	23.81	23.90	24.04	
20	QPSK	50	0	22.82	22.95	22.90	23.01	23.09	24
20	QPSK	50	24	22.80	22.96	22.87	23.00	23.09	
20	QPSK	50	50	22.76	22.92	22.82	22.93	23.08	
20	QPSK	100	0	22.80	22.86	22.88	22.90	23.00	24
20	16QAM	1	0	22.85	23.02	23.04	23.13	23.12	
20	16QAM	1	49	22.70	22.92	22.88	22.93	22.96	
20	16QAM	1	99	22.70	22.98	22.90	22.84	23.00	23
20	16QAM	50	0	21.81	21.93	21.94	21.99	22.00	
20	16QAM	50	24	21.77	21.93	21.92	21.93	21.98	
20	16QAM	50	50	21.73	21.93	21.87	21.87	21.99	23
20	16QAM	100	0	21.76	21.92	21.91	21.92	21.98	
20	64QAM	1	0	21.51	21.69	21.59	21.74	21.79	
20	64QAM	1	49	21.47	21.71	21.53	21.66	21.74	22
20	64QAM	1	99	21.41	21.61	21.45	21.52	21.68	
20	64QAM	50	0	20.81	20.97	20.88	21.02	21.05	
20	64QAM	50	24	20.78	20.95	20.83	20.95	21.03	20
20	64QAM	50	50	20.75	20.93	20.83	20.91	21.00	
20	64QAM	100	0	20.80	20.95	20.83	20.95	21.03	
20	256QAM	1	0	18.67	18.80	18.69	18.87	18.83	20
20	256QAM	1	49	18.49	18.70	18.60	18.75	18.73	
20	256QAM	1	99	18.47	18.61	18.55	18.69	18.64	
20	256QAM	50	0	18.83	18.89	18.88	19.05	19.00	20
20	256QAM	50	24	18.76	18.97	18.86	19.04	18.93	
20	256QAM	50	50	18.78	18.96	18.85	19.03	18.93	
20	256QAM	100	0	18.74	18.89	18.84	19.00	18.91	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	23.75	23.93	23.78	23.89	24.00	25.00
15	QPSK	1	37	23.66	23.85	23.89	24.00	24.03	
15	QPSK	1	74	23.56	23.87	23.73	23.82	24.01	
15	QPSK	36	0	22.78	22.88	22.76	22.83	23.03	24
15	QPSK	36	20	22.69	22.80	22.75	22.90	23.08	
15	QPSK	36	39	22.61	22.90	22.70	22.92	22.88	
15	QPSK	75	0	22.73	22.85	22.86	22.89	22.90	24
15	16QAM	1	0	22.65	22.93	22.94	23.02	22.93	
15	16QAM	1	37	22.65	22.82	22.78	22.91	22.77	
15	16QAM	1	74	22.58	22.87	22.85	22.75	23.00	23
15	16QAM	36	0	21.73	21.79	21.92	21.92	21.90	
15	16QAM	36	20	21.70	21.77	21.81	21.73	21.78	
15	16QAM	36	39	21.60	21.92	21.67	21.79	21.88	23
15	16QAM	75	0	21.71	21.90	21.77	21.79	21.78	
15	64QAM	1	0	21.33	21.56	21.54	21.69	21.62	
15	64QAM	1	37	21.28	21.59	21.43	21.61	21.57	22
15	64QAM	1	74	21.32	21.56	21.36	21.39	21.63	
15	64QAM	36	0	20.74	20.80	20.71	20.98	21.04	
15	64QAM	36	20	20.76	20.91	20.76	20.81	20.90	20
15	64QAM	36	39	20.65	20.75	20.82	20.82	20.94	
15	64QAM	75	0	20.70	20.77	20.74	20.87	20.87	
15	256QAM	1	0	18.59	18.66	18.50	18.72	18.82	20
15	256QAM	1	37	18.44	18.67	18.59	18.75	18.54	
15	256QAM	1	74	18.40	18.56	18.51	18.62	18.63	
15	256QAM	36	0	18.81	18.86	18.88	18.97	19.00	20
15	256QAM	36	20	18.62	18.88	18.77	18.91	18.90	
15	256QAM	36	39	18.64	18.83	18.70	18.87	18.81	



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15	256QAM	75	0	18.73	18.87	18.65	18.86	18.88	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	23.70	24.00	23.91	23.91	23.99	25.00
10	QPSK	1	25	23.63	23.99	23.81	23.82	23.97	
10	QPSK	1	49	23.61	23.87	23.81	23.76	23.97	
10	QPSK	25	0	22.72	22.80	22.73	22.88	22.96	24
10	QPSK	25	12	22.64	22.80	22.71	22.98	23.06	
10	QPSK	25	25	22.68	22.84	22.73	22.76	23.02	
10	QPSK	50	0	22.76	22.73	22.81	22.83	22.89	
10	16QAM	1	0	22.84	22.88	22.86	23.00	22.99	24
10	16QAM	1	25	22.66	22.79	22.72	22.84	22.83	
10	16QAM	1	49	22.62	22.86	22.84	22.80	22.87	
10	16QAM	25	0	21.73	21.82	21.75	21.93	21.97	23
10	16QAM	25	12	21.75	21.88	21.73	21.84	21.92	
10	16QAM	25	25	21.54	21.73	21.72	21.74	21.86	
10	16QAM	50	0	21.57	21.87	21.77	21.91	21.88	
10	64QAM	1	0	21.35	21.58	21.43	21.59	21.67	23
10	64QAM	1	25	21.44	21.69	21.45	21.63	21.71	
10	64QAM	1	49	21.26	21.59	21.25	21.46	21.55	
10	64QAM	25	0	20.68	20.92	20.69	20.85	20.90	22
10	64QAM	25	12	20.78	20.82	20.80	20.80	20.87	
10	64QAM	25	25	20.55	20.80	20.76	20.80	20.98	
10	64QAM	50	0	20.72	20.92	20.66	20.94	20.89	
10	256QAM	1	0	18.63	18.75	18.53	18.84	18.81	20
10	256QAM	1	25	18.29	18.61	18.56	18.60	18.64	
10	256QAM	1	49	18.40	18.54	18.44	18.57	18.44	
10	256QAM	25	0	18.69	18.76	18.84	18.93	18.90	20
10	256QAM	25	12	18.62	18.95	18.69	18.95	18.75	
10	256QAM	25	25	18.66	18.89	18.79	19.00	18.74	
10	256QAM	50	0	18.57	18.85	18.80	18.98	18.78	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	23.76	23.92	23.84	23.94	24.09	25.00
5	QPSK	1	12	23.69	23.88	23.79	23.97	23.98	
5	QPSK	1	24	23.61	23.86	23.79	23.72	23.87	
5	QPSK	12	0	22.63	22.83	22.88	22.97	22.98	24
5	QPSK	12	7	22.77	22.91	22.86	22.87	23.02	
5	QPSK	12	13	22.75	22.86	22.82	22.78	23.07	
5	QPSK	25	0	22.60	22.76	22.86	22.88	22.85	
5	16QAM	1	0	22.83	22.97	22.95	22.94	22.96	24
5	16QAM	1	12	22.59	22.91	22.70	22.93	22.85	
5	16QAM	1	24	22.56	22.93	22.79	22.77	22.90	
5	16QAM	12	0	21.65	21.78	21.79	21.79	21.94	23
5	16QAM	12	7	21.74	21.78	21.85	21.86	21.94	
5	16QAM	12	13	21.66	21.83	21.82	21.86	21.91	
5	16QAM	25	0	21.63	21.85	21.81	21.74	21.97	
5	64QAM	1	0	21.50	21.56	21.59	21.62	21.71	23
5	64QAM	1	12	21.33	21.61	21.35	21.47	21.61	
5	64QAM	1	24	21.30	21.57	21.37	21.42	21.61	
5	64QAM	12	0	20.62	20.96	20.77	20.85	21.00	22
5	64QAM	12	7	20.74	20.84	20.79	20.89	20.90	
5	64QAM	12	13	20.67	20.92	20.75	20.72	20.94	
5	64QAM	25	0	20.77	20.91	20.69	20.86	20.89	
5	256QAM	1	0	18.47	18.65	18.59	18.68	18.74	20
5	256QAM	1	12	18.40	18.53	18.47	18.64	18.72	
5	256QAM	1	24	18.47	18.42	18.45	18.64	18.47	
5	256QAM	12	0	18.79	18.81	18.83	19.05	18.98	20
5	256QAM	12	7	18.64	18.83	18.81	18.96	18.74	
5	256QAM	12	13	18.69	18.89	18.82	18.90	18.90	
5	256QAM	25	0	18.71	18.77	18.67	18.97	18.85	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	21.09	21.25	21.13	21.31	21.45	22.6
20	QPSK	1	49	21.05	21.15	21.04	21.23	21.33	
20	QPSK	1	99	21.04	21.17	20.97	21.17	21.29	
20	QPSK	50	0	21.11	21.22	21.18	21.32	21.42	22.6
20	QPSK	50	24	21.12	21.24	21.13	21.31	21.36	
20	QPSK	50	50	21.10	21.19	21.09	21.32	21.29	
20	QPSK	100	0	21.12	21.24	21.14	21.31	21.34	22.6
20	16QAM	1	0	21.10	21.19	21.11	21.34	21.37	
20	16QAM	1	49	20.99	21.13	21.01	21.20	21.29	
20	16QAM	1	99	21.03	21.14	20.98	21.06	21.26	22.6
20	16QAM	50	0	21.17	21.32	21.22	21.30	21.38	
20	16QAM	50	24	21.18	21.27	21.23	21.41	21.40	
20	16QAM	50	50	21.19	21.27	21.14	21.36	21.37	22.6
20	16QAM	100	0	21.16	21.28	21.20	21.40	21.32	
20	64QAM	1	0	20.87	21.04	20.97	21.11	21.24	
20	64QAM	1	49	20.80	20.96	20.85	20.98	21.14	22.6
20	64QAM	1	99	20.86	20.97	20.84	20.90	21.10	
20	64QAM	50	0	21.15	21.27	21.20	21.34	21.33	
20	64QAM	50	24	21.16	21.27	21.19	21.32	21.35	22.6
20	64QAM	50	50	21.12	21.25	21.14	21.33	21.37	
20	64QAM	100	0	21.14	21.23	21.17	21.33	21.17	
20	256QAM	1	0	21.03	21.11	21.08	21.18	21.31	22
20	256QAM	1	49	20.85	20.86	20.91	21.08	21.06	
20	256QAM	1	99	20.74	20.89	20.87	20.90	21.06	
20	256QAM	50	0	20.96	21.20	21.08	21.26	21.21	22
20	256QAM	50	24	20.95	21.12	21.03	21.17	21.19	
20	256QAM	50	50	20.90	21.01	20.94	21.08	21.12	
20	256QAM	100	0	20.92	21.09	20.98	21.13	21.18	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	20.99	21.14	20.98	21.13	21.30	22.60
15	QPSK	1	37	20.86	20.96	20.88	21.04	21.18	
15	QPSK	1	74	20.85	21.00	20.87	20.97	21.09	
15	QPSK	36	0	20.96	21.12	21.07	21.20	21.23	22.6
15	QPSK	36	20	20.92	21.12	21.01	21.15	21.20	
15	QPSK	36	39	20.98	21.08	20.90	21.15	21.16	
15	QPSK	75	0	21.02	21.11	21.02	21.12	21.19	22.6
15	16QAM	1	0	20.90	20.99	20.91	21.24	21.26	
15	16QAM	1	37	20.82	21.01	20.84	21.07	21.13	
15	16QAM	1	74	20.93	21.04	20.82	20.96	21.09	22.6
15	16QAM	36	0	21.07	21.20	21.11	21.16	21.23	
15	16QAM	36	20	21.03	21.17	21.09	21.26	21.26	
15	16QAM	36	39	21.01	21.07	21.04	21.17	21.18	22.6
15	16QAM	75	0	21.04	21.14	21.01	21.28	21.18	
15	64QAM	1	0	20.68	20.90	20.77	20.96	21.14	
15	64QAM	1	37	20.63	20.86	20.71	20.78	20.96	22.6
15	64QAM	1	74	20.76	20.83	20.69	20.79	20.93	
15	64QAM	36	0	21.01	21.15	21.08	21.15	21.21	
15	64QAM	36	20	20.99	21.10	20.99	21.19	21.23	22.6
15	64QAM	36	39	20.92	21.08	20.94	21.21	21.22	
15	64QAM	75	0	21.01	21.03	21.00	21.13	21.07	
15	256QAM	1	0	21.03	21.09	21.04	21.20	21.24	22
15	256QAM	1	37	20.82	20.94	20.93	21.02	21.04	
15	256QAM	1	74	20.73	20.87	20.88	20.99	21.05	
15	256QAM	36	0	20.98	21.24	21.11	21.26	21.20	22
15	256QAM	36	20	20.96	21.04	21.07	21.11	21.21	
15	256QAM	36	39	20.90	21.05	20.96	21.08	21.15	



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15	256QAM	75	0	20.89	21.09	20.97	21.09	21.11	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	20.90	21.10	21.00	21.17	21.28	22.60
10	QPSK	1	25	20.90	21.02	20.89	21.07	21.20	
10	QPSK	1	49	20.92	20.97	20.87	21.01	21.18	
10	QPSK	25	0	20.95	21.02	20.98	21.20	21.29	22.6
10	QPSK	25	12	21.02	21.04	20.97	21.13	21.16	
10	QPSK	25	25	20.98	21.03	20.96	21.21	21.11	
10	QPSK	50	0	20.92	21.07	20.96	21.16	21.21	
10	16QAM	1	0	20.91	21.06	20.94	21.19	21.20	22.6
10	16QAM	1	25	20.82	21.02	20.90	21.04	21.16	
10	16QAM	1	49	20.85	21.01	20.86	20.89	21.16	
10	16QAM	25	0	21.01	21.13	21.04	21.19	21.18	22.6
10	16QAM	25	12	20.99	21.11	21.07	21.31	21.24	
10	16QAM	25	25	21.06	21.13	21.02	21.20	21.23	
10	16QAM	50	0	21.04	21.14	21.01	21.20	21.19	
10	64QAM	1	0	20.72	20.87	20.81	20.94	21.12	22.6
10	64QAM	1	25	20.62	20.78	20.71	20.81	20.94	
10	64QAM	1	49	20.74	20.79	20.65	20.78	20.98	
10	64QAM	25	0	21.04	21.13	21.04	21.18	21.15	22.6
10	64QAM	25	12	21.00	21.16	20.99	21.14	21.15	
10	64QAM	25	25	20.97	21.14	21.00	21.13	21.20	
10	64QAM	50	0	21.01	21.05	21.00	21.21	21.03	
10	256QAM	1	0	21.04	21.15	21.07	21.20	21.31	22
10	256QAM	1	25	20.90	20.92	20.91	21.08	21.05	
10	256QAM	1	49	20.82	20.84	20.87	20.92	21.10	
10	256QAM	25	0	20.96	21.16	21.10	21.23	21.23	22
10	256QAM	25	12	20.89	21.03	21.00	21.20	21.18	
10	256QAM	25	25	20.88	21.05	21.01	21.09	21.19	
10	256QAM	50	0	20.88	21.11	20.98	21.14	21.19	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	20.90	21.12	20.94	21.12	21.29	22.60
5	QPSK	1	12	20.89	21.00	20.87	21.06	21.14	
5	QPSK	1	24	20.92	21.03	20.78	21.03	21.12	
5	QPSK	12	0	20.99	21.10	21.02	21.15	21.28	22.6
5	QPSK	12	7	21.00	21.11	21.00	21.19	21.18	
5	QPSK	12	13	21.00	21.01	20.99	21.13	21.12	
5	QPSK	25	0	20.92	21.09	20.99	21.14	21.17	
5	16QAM	1	0	20.91	21.08	20.92	21.19	21.27	22.6
5	16QAM	1	12	20.89	21.00	20.82	21.04	21.16	
5	16QAM	1	24	20.88	20.96	20.83	20.87	21.06	
5	16QAM	12	0	21.03	21.13	21.04	21.15	21.26	22.6
5	16QAM	12	7	21.00	21.08	21.06	21.29	21.23	
5	16QAM	12	13	21.08	21.10	21.04	21.20	21.27	
5	16QAM	25	0	21.03	21.18	21.04	21.27	21.21	
5	64QAM	1	0	20.68	20.89	20.85	21.00	21.05	22.6
5	64QAM	1	12	20.64	20.85	20.66	20.83	20.98	
5	64QAM	1	24	20.72	20.79	20.69	20.70	20.98	
5	64QAM	12	0	20.97	21.07	21.00	21.22	21.18	22.6
5	64QAM	12	7	21.05	21.15	21.02	21.13	21.20	
5	64QAM	12	13	20.93	21.15	20.94	21.16	21.23	
5	64QAM	25	0	20.99	21.09	21.07	21.14	21.02	
5	256QAM	1	0	21.04	21.09	21.00	21.18	21.24	22
5	256QAM	1	12	20.83	20.96	20.93	21.07	21.14	
5	256QAM	1	24	20.74	20.82	20.82	20.96	21.05	
5	256QAM	12	0	21.00	21.14	21.10	21.25	21.29	22
5	256QAM	12	7	20.93	21.09	21.03	21.17	21.25	
5	256QAM	12	13	20.91	21.08	21.01	20.99	21.18	
5	256QAM	25	0	20.88	21.10	20.99	21.08	21.15	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.90	25.74	26.00	26.12	26.26	27
20	QPSK	1	49	25.85	25.64	25.88	26.02	26.15	
20	QPSK	1	99	25.83	25.72	25.86	26.00	26.11	
20	QPSK	50	0	25.23	24.98	25.02	25.36	25.42	26
20	QPSK	50	24	25.20	24.97	24.97	25.32	25.37	
20	QPSK	50	50	25.13	24.94	24.94	25.29	25.33	
20	QPSK	100	0	25.16	24.94	24.97	25.34	25.38	
20	16QAM	1	0	25.21	25.10	25.36	25.46	25.62	26
20	16QAM	1	49	25.17	24.97	25.24	25.31	25.51	
20	16QAM	1	99	25.17	25.06	25.24	25.33	25.46	
20	16QAM	50	0	24.20	23.98	24.07	24.33	24.45	25
20	16QAM	50	24	24.17	23.96	24.03	24.30	24.41	
20	16QAM	50	50	24.13	23.92	24.00	24.27	24.37	
20	16QAM	100	0	24.14	23.91	24.01	24.30	24.39	
20	64QAM	1	0	24.07	23.92	24.08	24.26	24.43	25
20	64QAM	1	49	24.02	23.77	23.98	24.11	24.32	
20	64QAM	1	99	23.97	23.80	23.95	24.08	24.27	
20	64QAM	50	0	23.11	22.89	23.00	23.25	23.37	24
20	64QAM	50	24	23.08	22.86	22.95	23.21	23.32	
20	64QAM	50	50	23.06	22.85	22.94	23.20	23.29	
20	64QAM	100	0	23.07	22.84	22.95	23.22	23.32	
20	256QAM	1	0	21.13	20.95	21.03	21.32	21.45	22
20	256QAM	1	49	20.93	20.76	20.91	21.10	21.33	
20	256QAM	1	99	20.86	20.68	20.85	21.08	21.17	
20	256QAM	50	0	21.16	21.01	21.10	21.37	21.44	22
20	256QAM	50	24	21.12	20.94	21.03	21.25	21.37	
20	256QAM	50	50	21.03	20.85	20.99	21.27	21.41	
20	256QAM	100	0	21.05	20.84	21.02	21.23	21.43	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	25.84	25.55	25.82	26.00	26.11	27.00
15	QPSK	1	37	25.68	25.57	25.69	26.00	26.11	
15	QPSK	1	74	25.73	25.67	25.71	25.99	25.91	
15	QPSK	36	0	25.15	24.92	25.00	25.33	25.35	26
15	QPSK	36	20	25.05	24.81	24.94	25.21	25.36	
15	QPSK	36	39	25.04	24.76	24.85	25.26	25.15	
15	QPSK	75	0	25.07	24.85	24.90	25.28	25.31	
15	16QAM	1	0	25.02	24.97	25.36	25.43	25.51	26
15	16QAM	1	37	25.04	24.79	25.22	25.25	25.39	
15	16QAM	1	74	25.07	25.05	25.15	25.15	25.34	
15	16QAM	36	0	24.09	23.89	23.97	24.26	24.28	25
15	16QAM	36	20	24.10	23.92	23.90	24.11	24.21	
15	16QAM	36	39	23.99	23.92	23.93	24.13	24.34	
15	16QAM	75	0	24.06	23.89	23.84	24.23	24.21	
15	64QAM	1	0	23.93	23.84	24.06	24.13	24.42	25
15	64QAM	1	37	23.97	23.70	23.96	23.95	24.27	
15	64QAM	1	74	23.82	23.72	23.95	24.05	24.10	
15	64QAM	36	0	23.06	22.69	22.95	23.18	23.27	24
15	64QAM	36	20	22.93	22.75	22.75	23.03	23.20	
15	64QAM	36	39	22.97	22.73	22.84	23.13	23.24	
15	64QAM	75	0	23.06	22.74	22.94	23.16	23.12	
15	256QAM	1	0	21.03	20.81	20.86	21.32	21.37	22
15	256QAM	1	37	20.79	20.63	20.80	21.03	21.22	
15	256QAM	1	74	20.68	20.63	20.82	20.96	21.15	
15	256QAM	36	0	20.97	20.90	20.99	21.26	21.37	22
15	256QAM	36	20	20.94	20.84	20.97	21.10	21.24	
15	256QAM	36	39	21.02	20.80	20.87	21.17	21.32	



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15	256QAM	75	0	20.85	20.76	20.93	21.10	21.26	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	25.79	25.63	25.99	26.10	26.15	27.00
10	QPSK	1	25	25.85	25.60	25.71	25.86	26.15	
10	QPSK	1	49	25.80	25.62	25.66	25.80	26.04	
10	QPSK	25	0	25.08	24.84	24.98	25.29	25.41	26
10	QPSK	25	12	25.13	24.82	24.89	25.24	25.17	
10	QPSK	25	25	24.97	24.91	24.76	25.10	25.32	
10	QPSK	50	0	24.96	24.85	24.77	25.31	25.19	
10	16QAM	1	0	25.09	25.09	25.23	25.32	25.43	26
10	16QAM	1	25	25.17	24.79	25.13	25.16	25.35	
10	16QAM	1	49	25.02	24.89	25.13	25.27	25.46	
10	16QAM	25	0	24.06	23.85	24.06	24.18	24.28	25
10	16QAM	25	12	23.98	23.90	23.89	24.24	24.40	
10	16QAM	25	25	24.10	23.75	23.80	24.24	24.34	
10	16QAM	50	0	24.02	23.80	23.99	24.17	24.34	
10	64QAM	1	0	24.00	23.91	24.05	24.20	24.41	25
10	64QAM	1	25	23.82	23.62	23.82	23.96	24.23	
10	64QAM	1	49	23.92	23.66	23.78	23.99	24.19	
10	64QAM	25	0	23.06	22.76	22.95	23.23	23.26	24
10	64QAM	25	12	22.95	22.85	22.91	23.03	23.32	
10	64QAM	25	25	23.02	22.67	22.80	23.02	23.25	
10	64QAM	50	0	22.89	22.69	22.82	23.21	23.15	
10	256QAM	1	0	21.01	20.83	20.90	21.16	21.41	22
10	256QAM	1	25	20.84	20.69	20.77	20.94	21.30	
10	256QAM	1	49	20.84	20.60	20.73	21.00	21.11	
10	256QAM	25	0	21.10	20.91	20.92	21.25	21.26	22
10	256QAM	25	12	21.07	20.86	20.84	21.10	21.21	
10	256QAM	25	25	20.84	20.65	20.93	21.22	21.30	
10	256QAM	50	0	20.91	20.76	20.82	21.04	21.39	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	25.83	25.67	25.84	25.94	26.20	27.00
5	QPSK	1	12	25.78	25.59	25.81	26.00	26.08	
5	QPSK	1	24	25.82	25.52	25.86	25.90	26.09	
5	QPSK	12	0	25.12	24.97	24.96	25.20	25.34	26
5	QPSK	12	7	25.07	24.84	24.87	25.21	25.17	
5	QPSK	12	13	25.06	24.77	24.86	25.20	25.24	
5	QPSK	25	0	25.04	24.92	24.94	25.20	25.31	
5	16QAM	1	0	25.03	24.98	25.35	25.36	25.50	26
5	16QAM	1	12	25.00	24.92	25.24	25.18	25.49	
5	16QAM	1	24	24.97	24.86	25.07	25.26	25.29	
5	16QAM	12	0	24.05	23.79	23.90	24.27	24.45	25
5	16QAM	12	7	24.05	23.91	23.99	24.17	24.33	
5	16QAM	12	13	24.02	23.74	23.91	24.27	24.36	
5	16QAM	25	0	23.97	23.71	23.81	24.15	24.34	
5	64QAM	1	0	23.97	23.73	23.94	24.21	24.33	25
5	64QAM	1	12	23.91	23.73	23.84	24.06	24.28	
5	64QAM	1	24	23.91	23.60	23.75	23.95	24.11	
5	64QAM	12	0	22.98	22.81	22.84	23.19	23.35	24
5	64QAM	12	7	22.89	22.75	22.94	23.08	23.27	
5	64QAM	12	13	22.93	22.73	22.91	23.08	23.15	
5	64QAM	25	0	22.92	22.83	22.87	23.02	23.19	
5	256QAM	1	0	21.09	20.87	20.90	21.26	21.34	22
5	256QAM	1	12	20.83	20.64	20.73	20.98	21.14	
5	256QAM	1	24	20.70	20.53	20.81	20.99	21.04	
5	256QAM	12	0	21.08	20.89	20.92	21.17	21.28	22
5	256QAM	12	7	21.01	20.82	20.84	21.17	21.28	
5	256QAM	12	13	20.91	20.66	20.99	21.12	21.30	
5	256QAM	25	0	21.03	20.67	20.82	21.12	21.34	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.72	24.82	24.96	24.83	25.13	26.3
20	QPSK	1	49	24.57	24.79	24.86	24.70	25.00	
20	QPSK	1	99	24.56	24.84	24.74	24.56	25.00	
20	QPSK	50	0	24.90	24.92	25.04	25.00	25.10	26
20	QPSK	50	24	24.82	24.92	24.90	24.92	25.08	
20	QPSK	50	50	24.82	25.02	24.90	24.83	25.06	
20	QPSK	100	0	24.81	24.86	24.89	24.89	25.09	
20	16QAM	1	0	24.40	24.54	24.67	24.54	24.86	26
20	16QAM	1	49	24.39	24.59	24.61	24.36	24.81	
20	16QAM	1	99	24.34	24.60	24.48	24.36	24.76	
20	16QAM	50	0	23.89	23.98	24.08	23.99	24.27	25
20	16QAM	50	24	23.89	24.04	24.02	23.98	24.23	
20	16QAM	50	50	23.82	24.03	23.98	23.87	24.22	
20	16QAM	100	0	23.85	23.97	24.02	23.94	24.25	
20	64QAM	1	0	23.79	23.93	24.10	23.89	24.22	25
20	64QAM	1	49	23.72	23.88	23.94	23.81	24.19	
20	64QAM	1	99	23.86	24.00	23.82	23.63	24.13	
20	64QAM	50	0	22.87	22.97	23.01	22.90	23.21	24
20	64QAM	50	24	22.82	23.00	22.94	22.88	23.19	
20	64QAM	50	50	22.77	22.98	22.91	22.85	23.17	
20	64QAM	100	0	22.79	22.95	22.98	22.84	23.19	
20	256QAM	1	0	20.84	20.91	20.97	20.96	21.19	22
20	256QAM	1	49	20.70	20.85	20.94	20.88	21.03	
20	256QAM	1	99	20.63	20.63	20.73	20.72	20.87	
20	256QAM	50	0	20.84	20.93	21.00	21.01	21.21	22
20	256QAM	50	24	20.79	20.84	20.96	20.96	21.18	
20	256QAM	50	50	20.74	20.83	20.94	20.88	21.08	
20	256QAM	100	0	20.70	20.74	20.95	20.86	21.02	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	24.64	24.76	24.89	24.77	25.04	26.30
15	QPSK	1	37	24.50	24.71	24.79	24.61	24.92	
15	QPSK	1	74	24.47	24.77	24.64	24.49	24.92	
15	QPSK	36	0	24.80	24.85	24.95	24.95	25.06	26
15	QPSK	36	20	24.75	24.83	24.84	24.84	24.98	
15	QPSK	36	39	24.77	24.92	24.84	24.76	24.96	
15	QPSK	75	0	24.74	24.78	24.84	24.79	25.03	
15	16QAM	1	0	24.30	24.46	24.59	24.48	24.78	26
15	16QAM	1	37	24.31	24.54	24.51	24.30	24.71	
15	16QAM	1	74	24.29	24.55	24.42	24.26	24.71	
15	16QAM	36	0	23.80	23.88	23.99	23.89	24.17	25
15	16QAM	36	20	23.81	23.95	23.93	23.88	24.15	
15	16QAM	36	39	23.75	23.93	23.92	23.82	24.17	
15	16QAM	75	0	23.75	23.92	23.96	23.84	24.17	
15	64QAM	1	0	23.74	23.87	24.02	23.80	24.12	25
15	64QAM	1	37	23.62	23.83	23.84	23.76	24.14	
15	64QAM	1	74	23.76	23.94	23.75	23.55	24.08	
15	64QAM	36	0	22.79	22.89	22.91	22.81	23.15	24
15	64QAM	36	20	22.72	22.94	22.86	22.80	23.12	
15	64QAM	36	39	22.71	22.93	22.86	22.79	23.12	
15	64QAM	75	0	22.74	22.86	22.88	22.75	23.13	
15	256QAM	1	0	20.74	20.84	20.90	20.87	21.13	22
15	256QAM	1	37	20.65	20.79	20.85	20.83	20.94	
15	256QAM	1	74	20.57	20.57	20.64	20.62	20.82	
15	256QAM	36	0	20.78	20.85	20.91	20.95	21.13	22
15	256QAM	36	20	20.70	20.75	20.88	20.89	21.08	
15	256QAM	36	39	20.68	20.76	20.89	20.81	21.02	



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15	256QAM	75	0	20.60	20.66	20.86	20.80	20.94	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	24.65	24.77	24.89	24.74	25.06	26.30
10	QPSK	1	25	24.50	24.73	24.77	24.65	24.90	
10	QPSK	1	49	24.47	24.77	24.67	24.51	24.92	
10	QPSK	25	0	24.82	24.83	24.95	24.91	25.06	26
10	QPSK	25	12	24.75	24.83	24.82	24.82	24.98	
10	QPSK	25	25	24.76	24.97	24.80	24.73	25.01	
10	QPSK	50	0	24.76	24.78	24.80	24.84	25.02	
10	16QAM	1	0	24.32	24.48	24.58	24.48	24.80	26
10	16QAM	1	25	24.32	24.49	24.55	24.30	24.74	
10	16QAM	1	49	24.26	24.52	24.41	24.26	24.68	
10	16QAM	25	0	23.82	23.93	23.99	23.94	24.18	25
10	16QAM	25	12	23.83	23.97	23.93	23.89	24.15	
10	16QAM	25	25	23.75	23.95	23.88	23.81	24.14	
10	16QAM	50	0	23.80	23.89	23.97	23.88	24.15	
10	64QAM	1	0	23.73	23.86	24.04	23.84	24.15	25
10	64QAM	1	25	23.65	23.81	23.85	23.75	24.13	
10	64QAM	1	49	23.81	23.95	23.75	23.56	24.05	
10	64QAM	25	0	22.82	22.91	22.95	22.84	23.13	24
10	64QAM	25	12	22.75	22.92	22.84	22.82	23.11	
10	64QAM	25	25	22.67	22.88	22.82	22.80	23.07	
10	64QAM	50	0	22.71	22.87	22.89	22.75	23.14	
10	256QAM	1	0	20.74	20.81	20.91	20.90	21.14	22
10	256QAM	1	25	20.60	20.80	20.88	20.83	20.96	
10	256QAM	1	49	20.54	20.53	20.63	20.64	20.79	
10	256QAM	25	0	20.74	20.86	20.92	20.91	21.14	22
10	256QAM	25	12	20.69	20.78	20.91	20.91	21.09	
10	256QAM	25	25	20.66	20.73	20.86	20.79	21.01	
10	256QAM	50	0	20.60	20.65	20.86	20.79	20.94	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	24.63	24.74	24.91	24.74	25.03	26.30
5	QPSK	1	12	24.49	24.69	24.76	24.62	24.92	
5	QPSK	1	24	24.51	24.79	24.68	24.47	24.93	
5	QPSK	12	0	24.83	24.84	24.98	24.93	25.05	26
5	QPSK	12	7	24.77	24.83	24.82	24.84	24.98	
5	QPSK	12	13	24.74	24.93	24.80	24.77	25.01	
5	QPSK	25	0	24.74	24.79	24.80	24.81	25.02	
5	16QAM	1	0	24.34	24.44	24.57	24.48	24.81	26
5	16QAM	1	12	24.34	24.52	24.51	24.28	24.73	
5	16QAM	1	24	24.24	24.51	24.39	24.31	24.71	
5	16QAM	12	0	23.79	23.93	24.01	23.93	24.21	25
5	16QAM	12	7	23.79	23.95	23.97	23.93	24.17	
5	16QAM	12	13	23.73	23.93	23.89	23.79	24.12	
5	16QAM	25	0	23.77	23.92	23.95	23.86	24.20	
5	64QAM	1	0	23.72	23.88	24.01	23.83	24.13	25
5	64QAM	1	12	23.67	23.79	23.87	23.71	24.14	
5	64QAM	1	24	23.79	23.91	23.75	23.54	24.05	
5	64QAM	12	0	22.78	22.89	22.95	22.85	23.14	24
5	64QAM	12	7	22.72	22.91	22.84	22.81	23.13	
5	64QAM	12	13	22.72	22.92	22.83	22.77	23.08	
5	64QAM	25	0	22.74	22.88	22.90	22.79	23.10	
5	256QAM	1	0	20.74	20.82	20.87	20.87	21.09	22
5	256QAM	1	12	20.65	20.75	20.88	20.82	20.98	
5	256QAM	1	24	20.56	20.58	20.65	20.64	20.77	
5	256QAM	12	0	20.79	20.86	20.95	20.91	21.14	22
5	256QAM	12	7	20.71	20.75	20.89	20.86	21.09	
5	256QAM	12	13	20.69	20.76	20.85	20.79	20.98	
5	256QAM	25	0	20.64	20.64	20.87	20.78	20.93	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.63	25.77	25.88	25.85	25.89	27
20	QPSK	1	49	25.51	25.73	25.76	25.69	25.61	
20	QPSK	1	99	25.53	25.81	25.72	25.64	25.82	
20	QPSK	50	0	24.84	24.96	24.89	24.98	24.99	26
20	QPSK	50	24	24.77	24.90	24.85	24.96	24.97	
20	QPSK	50	50	24.71	24.90	24.82	24.87	24.97	
20	QPSK	100	0	24.71	24.89	24.86	24.94	24.97	
20	16QAM	1	0	24.82	25.07	25.13	25.12	25.16	26
20	16QAM	1	49	24.75	24.99	25.00	24.92	25.14	
20	16QAM	1	99	24.74	25.07	24.97	24.86	25.05	
20	16QAM	50	0	23.77	23.91	23.90	23.98	23.98	25
20	16QAM	50	24	23.72	23.90	23.87	23.92	23.98	
20	16QAM	50	50	23.68	23.91	23.83	23.85	23.97	
20	16QAM	100	0	23.70	23.88	23.85	23.90	23.97	
20	64QAM	1	0	23.67	23.83	23.94	23.95	23.98	25
20	64QAM	1	49	23.57	23.79	23.83	23.76	23.88	
20	64QAM	1	99	23.58	23.85	23.80	23.66	23.88	
20	64QAM	50	0	22.74	22.87	22.88	22.93	22.92	24
20	64QAM	50	24	22.68	22.84	22.83	22.85	22.91	
20	64QAM	50	50	22.66	22.86	22.79	22.82	22.94	
20	64QAM	100	0	22.68	22.85	22.82	22.84	22.93	
20	256QAM	1	0	20.74	20.80	20.78	20.94	20.88	22
20	256QAM	1	49	20.67	20.66	20.72	20.79	20.80	
20	256QAM	1	99	20.57	20.62	20.62	20.76	20.65	
20	256QAM	50	0	20.77	20.84	20.89	20.95	20.92	22
20	256QAM	50	24	20.74	20.75	20.81	20.90	20.90	
20	256QAM	50	50	20.70	20.80	20.79	20.94	20.83	
20	256QAM	100	0	20.67	20.75	20.76	20.86	20.81	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	25.44	25.58	25.78	25.65	25.69	27.00
15	QPSK	1	37	25.49	25.54	25.74	25.57	25.52	
15	QPSK	1	74	25.37	25.63	25.64	25.58	25.79	
15	QPSK	36	0	24.70	24.85	24.81	24.89	24.78	26
15	QPSK	36	20	24.71	24.79	24.72	24.91	24.96	
15	QPSK	36	39	24.66	24.79	24.76	24.71	24.93	
15	QPSK	75	0	24.63	24.70	24.71	24.74	24.87	
15	16QAM	1	0	24.79	24.93	25.05	25.10	25.13	26
15	16QAM	1	37	24.64	24.81	24.86	24.83	25.01	
15	16QAM	1	74	24.56	25.05	24.84	24.66	24.98	
15	16QAM	36	0	23.72	23.71	23.73	23.96	23.93	25
15	16QAM	36	20	23.67	23.89	23.67	23.80	23.90	
15	16QAM	36	39	23.55	23.79	23.77	23.82	23.80	
15	16QAM	75	0	23.60	23.71	23.85	23.83	23.93	
15	64QAM	1	0	23.62	23.72	23.82	23.77	23.84	25
15	64QAM	1	37	23.48	23.61	23.81	23.63	23.86	
15	64QAM	1	74	23.40	23.79	23.80	23.63	23.85	
15	64QAM	36	0	22.55	22.75	22.71	22.92	22.77	24
15	64QAM	36	20	22.52	22.82	22.63	22.83	22.77	
15	64QAM	36	39	22.64	22.68	22.59	22.78	22.90	
15	64QAM	75	0	22.53	22.67	22.73	22.80	22.82	
15	256QAM	1	0	20.65	20.79	20.66	20.93	20.78	22
15	256QAM	1	37	20.48	20.66	20.63	20.73	20.78	
15	256QAM	1	74	20.54	20.60	20.52	20.72	20.60	
15	256QAM	36	0	20.72	20.77	20.82	20.78	20.88	22
15	256QAM	36	20	20.68	20.69	20.81	20.74	20.81	
15	256QAM	36	39	20.62	20.63	20.77	20.88	20.65	



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15	256QAM	75	0	20.49	20.64	20.61	20.81	20.61	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	25.59	25.76	25.78	25.70	25.85	27.00
10	QPSK	1	25	25.51	25.69	25.73	25.62	25.43	
10	QPSK	1	49	25.36	25.62	25.59	25.53	25.81	
10	QPSK	25	0	24.82	24.80	24.83	24.97	24.84	26
10	QPSK	25	12	24.59	24.72	24.65	24.89	24.95	
10	QPSK	25	25	24.58	24.90	24.78	24.68	24.85	
10	QPSK	50	0	24.67	24.70	24.83	24.84	24.88	
10	16QAM	1	0	24.72	25.03	25.05	24.93	25.00	26
10	16QAM	1	25	24.60	24.92	24.99	24.82	25.02	
10	16QAM	1	49	24.59	25.03	24.97	24.81	24.99	
10	16QAM	25	0	23.61	23.84	23.77	23.97	23.85	25
10	16QAM	25	12	23.66	23.90	23.85	23.73	23.81	
10	16QAM	25	25	23.54	23.82	23.63	23.70	23.81	
10	16QAM	50	0	23.66	23.68	23.81	23.80	23.80	
10	64QAM	1	0	23.56	23.81	23.91	23.93	23.80	25
10	64QAM	1	25	23.48	23.70	23.73	23.76	23.80	
10	64QAM	1	49	23.49	23.82	23.75	23.66	23.73	
10	64QAM	25	0	22.71	22.68	22.73	22.76	22.82	24
10	64QAM	25	12	22.55	22.74	22.79	22.72	22.84	
10	64QAM	25	25	22.51	22.80	22.65	22.63	22.92	
10	64QAM	50	0	22.50	22.76	22.75	22.79	22.78	
10	256QAM	1	0	20.64	20.74	20.72	20.86	20.84	22
10	256QAM	1	25	20.61	20.46	20.53	20.71	20.63	
10	256QAM	1	49	20.56	20.47	20.55	20.65	20.53	
10	256QAM	25	0	20.68	20.81	20.71	20.82	20.83	22
10	256QAM	25	12	20.56	20.70	20.76	20.82	20.70	
10	256QAM	25	25	20.64	20.71	20.68	20.84	20.68	
10	256QAM	50	0	20.56	20.69	20.59	20.67	20.78	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	25.63	25.63	25.83	25.69	25.79	27.00
5	QPSK	1	12	25.36	25.69	25.56	25.56	25.55	
5	QPSK	1	24	25.52	25.68	25.61	25.48	25.74	
5	QPSK	12	0	24.64	24.93	24.74	24.92	24.92	26
5	QPSK	12	7	24.65	24.87	24.79	24.95	24.87	
5	QPSK	12	13	24.60	24.76	24.74	24.70	24.85	
5	QPSK	25	0	24.64	24.81	24.70	24.85	24.88	
5	16QAM	1	0	24.63	24.88	24.93	25.07	24.97	26
5	16QAM	1	12	24.60	24.93	24.90	24.86	25.00	
5	16QAM	1	24	24.62	24.97	24.88	24.81	25.01	
5	16QAM	12	0	23.68	23.86	23.85	23.94	23.79	25
5	16QAM	12	7	23.59	23.86	23.85	23.79	23.95	
5	16QAM	12	13	23.58	23.72	23.66	23.84	23.96	
5	16QAM	25	0	23.57	23.76	23.73	23.83	23.91	
5	64QAM	1	0	23.65	23.66	23.74	23.90	23.91	25
5	64QAM	1	12	23.46	23.59	23.77	23.74	23.73	
5	64QAM	1	24	23.38	23.85	23.78	23.48	23.85	
5	64QAM	12	0	22.71	22.73	22.77	22.91	22.92	24
5	64QAM	12	7	22.54	22.75	22.72	22.82	22.80	
5	64QAM	12	13	22.66	22.79	22.73	22.62	22.94	
5	64QAM	25	0	22.56	22.65	22.63	22.84	22.88	
5	256QAM	1	0	20.58	20.80	20.78	20.85	20.81	22
5	256QAM	1	12	20.50	20.58	20.65	20.76	20.60	
5	256QAM	1	24	20.53	20.50	20.53	20.63	20.47	
5	256QAM	12	0	20.61	20.80	20.72	20.77	20.87	22
5	256QAM	12	7	20.55	20.67	20.81	20.78	20.82	
5	256QAM	12	13	20.58	20.74	20.62	20.90	20.70	
5	256QAM	25	0	20.63	20.60	20.75	20.82	20.75	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	19.80	19.90	19.83	19.91	19.93	20.3
20	QPSK	1	49	19.66	19.68	19.54	19.69	19.90	
20	QPSK	1	99	19.61	19.68	19.51	19.67	19.78	
20	QPSK	50	0	19.62	19.73	19.67	19.85	19.90	20.3
20	QPSK	50	24	19.61	19.70	19.63	19.82	19.84	
20	QPSK	50	50	19.62	19.69	19.57	19.81	19.78	
20	QPSK	100	0	19.60	19.69	19.63	19.82	19.84	
20	16QAM	1	0	19.79	19.89	19.82	19.90	19.92	20.3
20	16QAM	1	49	19.64	19.83	19.67	19.80	19.89	
20	16QAM	1	99	19.71	19.81	19.64	19.76	19.92	
20	16QAM	50	0	19.64	19.78	19.71	19.88	19.92	20.3
20	16QAM	50	24	19.63	19.77	19.67	19.84	19.88	
20	16QAM	50	50	19.63	19.75	19.61	19.81	19.83	
20	16QAM	100	0	19.61	19.75	19.66	19.83	19.88	
20	64QAM	1	0	19.33	19.50	19.44	19.56	19.62	20.3
20	64QAM	1	49	19.33	19.42	19.37	19.54	19.60	
20	64QAM	1	99	19.29	19.41	19.25	19.39	19.48	
20	64QAM	50	0	19.65	19.77	19.72	19.88	19.92	20.3
20	64QAM	50	24	19.63	19.74	19.67	19.83	19.90	
20	64QAM	50	50	19.63	19.73	19.62	19.81	19.85	
20	64QAM	100	0	19.62	19.75	19.64	19.84	19.84	
20	256QAM	1	0	19.22	19.32	19.33	19.48	19.55	20
20	256QAM	1	49	19.09	19.27	19.30	19.40	19.46	
20	256QAM	1	99	18.97	19.08	19.16	19.29	19.30	
20	256QAM	50	0	19.47	19.58	19.66	19.73	19.80	20
20	256QAM	50	24	19.46	19.53	19.57	19.68	19.78	
20	256QAM	50	50	19.29	19.41	19.49	19.55	19.68	
20	256QAM	100	0	19.32	19.40	19.50	19.61	19.70	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	19.70	19.72	19.67	19.76	19.78	20.30
15	QPSK	1	37	19.49	19.53	19.43	19.58	19.78	
15	QPSK	1	74	19.47	19.50	19.37	19.49	19.63	
15	QPSK	36	0	19.43	19.62	19.51	19.65	19.73	20.3
15	QPSK	36	20	19.42	19.51	19.50	19.70	19.69	
15	QPSK	36	39	19.44	19.49	19.38	19.64	19.62	
15	QPSK	75	0	19.48	19.57	19.44	19.72	19.65	
15	16QAM	1	0	19.68	19.77	19.68	19.75	19.78	20.3
15	16QAM	1	37	19.54	19.65	19.50	19.69	19.78	
15	16QAM	1	74	19.55	19.67	19.46	19.56	19.79	
15	16QAM	36	0	19.49	19.58	19.52	19.74	19.82	20.3
15	16QAM	36	20	19.53	19.64	19.47	19.66	19.78	
15	16QAM	36	39	19.43	19.57	19.46	19.63	19.72	
15	16QAM	75	0	19.41	19.59	19.56	19.70	19.72	
15	64QAM	1	0	19.19	19.37	19.28	19.37	19.49	20.3
15	64QAM	1	37	19.18	19.23	19.21	19.36	19.41	
15	64QAM	1	74	19.09	19.21	19.13	19.25	19.34	
15	64QAM	36	0	19.48	19.58	19.62	19.69	19.79	20.3
15	64QAM	36	20	19.46	19.55	19.53	19.69	19.79	
15	64QAM	36	39	19.53	19.59	19.44	19.66	19.65	
15	64QAM	75	0	19.43	19.64	19.53	19.74	19.72	
15	256QAM	1	0	19.03	19.22	19.13	19.33	19.41	20
15	256QAM	1	37	18.99	19.14	19.18	19.28	19.34	
15	256QAM	1	74	18.78	18.93	18.98	19.09	19.17	
15	256QAM	36	0	19.33	19.48	19.55	19.58	19.68	20
15	256QAM	36	20	19.26	19.35	19.41	19.48	19.59	
15	256QAM	36	39	19.18	19.30	19.39	19.38	19.54	



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15	256QAM	75	0	19.22	19.20	19.33	19.46	19.60	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	19.62	19.73	19.68	19.77	19.75	20.30
10	QPSK	1	25	19.53	19.49	19.38	19.59	19.72	
10	QPSK	1	49	19.49	19.54	19.31	19.54	19.64	
10	QPSK	25	0	19.45	19.56	19.49	19.65	19.71	20.3
10	QPSK	25	12	19.46	19.55	19.53	19.69	19.66	
10	QPSK	25	25	19.46	19.55	19.43	19.70	19.66	
10	QPSK	50	0	19.43	19.49	19.48	19.64	19.64	
10	16QAM	1	0	19.62	19.72	19.70	19.71	19.73	20.3
10	16QAM	1	25	19.45	19.71	19.50	19.69	19.76	
10	16QAM	1	49	19.55	19.63	19.48	19.64	19.81	
10	16QAM	25	0	19.44	19.58	19.58	19.70	19.73	20.3
10	16QAM	25	12	19.45	19.57	19.48	19.71	19.68	
10	16QAM	25	25	19.43	19.58	19.45	19.71	19.69	
10	16QAM	50	0	19.49	19.58	19.50	19.65	19.74	
10	64QAM	1	0	19.22	19.39	19.24	19.39	19.42	20.3
10	64QAM	1	25	19.23	19.29	19.24	19.37	19.42	
10	64QAM	1	49	19.16	19.28	19.06	19.28	19.32	
10	64QAM	25	0	19.48	19.64	19.56	19.68	19.76	20.3
10	64QAM	25	12	19.50	19.54	19.49	19.73	19.71	
10	64QAM	25	25	19.45	19.61	19.51	19.69	19.74	
10	64QAM	50	0	19.47	19.64	19.53	19.68	19.71	
10	256QAM	1	0	19.12	19.21	19.23	19.32	19.42	20
10	256QAM	1	25	18.94	19.10	19.16	19.21	19.31	
10	256QAM	1	49	18.86	18.93	19.01	19.09	19.20	
10	256QAM	25	0	19.32	19.42	19.54	19.54	19.69	20
10	256QAM	25	12	19.35	19.34	19.47	19.53	19.62	
10	256QAM	25	25	19.19	19.24	19.33	19.44	19.54	
10	256QAM	50	0	19.16	19.22	19.38	19.46	19.54	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	19.69	19.74	19.71	19.79	19.76	20.30
5	QPSK	1	12	19.52	19.52	19.42	19.54	19.71	
5	QPSK	1	24	19.50	19.52	19.34	19.50	19.66	
5	QPSK	12	0	19.47	19.57	19.48	19.68	19.74	20.3
5	QPSK	12	7	19.43	19.57	19.46	19.70	19.73	
5	QPSK	12	13	19.48	19.56	19.46	19.70	19.64	
5	QPSK	25	0	19.44	19.52	19.44	19.66	19.70	
5	16QAM	1	0	19.64	19.75	19.71	19.74	19.79	20.3
5	16QAM	1	12	19.50	19.73	19.56	19.68	19.72	
5	16QAM	1	24	19.55	19.70	19.52	19.57	19.72	
5	16QAM	12	0	19.47	19.68	19.57	19.78	19.75	20.3
5	16QAM	12	7	19.52	19.60	19.51	19.69	19.69	
5	16QAM	12	13	19.44	19.65	19.45	19.63	19.68	
5	16QAM	25	0	19.50	19.57	19.55	19.66	19.71	
5	64QAM	1	0	19.13	19.33	19.29	19.40	19.47	20.3
5	64QAM	1	12	19.18	19.25	19.17	19.34	19.41	
5	64QAM	1	24	19.18	19.21	19.11	19.27	19.31	
5	64QAM	12	0	19.52	19.58	19.59	19.76	19.76	20.3
5	64QAM	12	7	19.44	19.64	19.48	19.66	19.73	
5	64QAM	12	13	19.51	19.59	19.49	19.70	19.71	
5	64QAM	25	0	19.48	19.61	19.50	19.67	19.69	
5	256QAM	1	0	19.11	19.13	19.19	19.34	19.39	20
5	256QAM	1	12	18.96	19.13	19.14	19.21	19.34	
5	256QAM	1	24	18.78	18.94	19.04	19.16	19.14	
5	256QAM	12	0	19.35	19.40	19.52	19.57	19.70	20
5	256QAM	12	7	19.30	19.34	19.38	19.56	19.63	
5	256QAM	12	13	19.12	19.21	19.38	19.43	19.57	
5	256QAM	25	0	19.19	19.26	19.34	19.48	19.51	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.22	24.05	24.13	24.40	24.53	25
20	QPSK	1	49	24.22	23.93	24.08	24.35	24.48	
20	QPSK	1	99	24.13	23.94	24.04	24.31	24.42	
20	QPSK	50	0	23.26	23.03	23.13	23.46	23.54	24
20	QPSK	50	24	23.24	23.01	23.08	23.37	23.44	
20	QPSK	50	50	23.19	22.98	23.03	23.36	23.39	
20	QPSK	100	0	23.21	22.99	23.07	23.39	23.43	24
20	16QAM	1	0	23.34	23.18	23.26	23.51	23.67	
20	16QAM	1	49	23.25	23.00	23.13	23.34	23.55	
20	16QAM	1	99	23.25	23.02	23.13	23.33	23.52	23
20	16QAM	50	0	22.27	22.05	22.15	22.43	22.53	
20	16QAM	50	24	22.27	22.03	22.11	22.40	22.50	
20	16QAM	50	50	22.23	22.00	22.08	22.37	22.45	23
20	16QAM	100	0	22.24	22.02	22.10	22.40	22.49	
20	64QAM	1	0	21.93	21.74	21.84	22.13	22.24	23
20	64QAM	1	49	21.89	21.65	21.75	22.03	22.15	
20	64QAM	1	99	21.82	21.64	21.68	21.95	22.05	
20	64QAM	50	0	21.26	21.02	21.13	21.41	21.53	22
20	64QAM	50	24	21.24	20.99	21.04	21.36	21.46	
20	64QAM	50	50	21.20	20.97	21.06	21.35	21.45	
20	64QAM	100	0	21.20	20.99	21.07	21.37	21.45	20
20	256QAM	1	0	19.02	18.89	18.96	19.29	19.35	
20	256QAM	1	49	18.90	18.79	18.86	19.18	19.17	
20	256QAM	1	99	18.75	18.66	18.79	19.06	19.08	20
20	256QAM	50	0	19.19	19.05	19.21	19.48	19.53	
20	256QAM	50	24	19.14	18.98	19.15	19.44	19.47	
20	256QAM	50	50	19.08	18.92	19.07	19.35	19.38	20
20	256QAM	100	0	19.16	18.99	19.11	19.36	19.41	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	24.18	23.90	24.05	24.36	24.35	25.00
15	QPSK	1	37	24.18	23.84	23.89	24.26	24.31	
15	QPSK	1	74	23.97	23.80	23.85	24.30	24.22	
15	QPSK	36	0	23.14	22.86	22.97	23.28	23.38	24
15	QPSK	36	20	23.21	22.83	22.97	23.28	23.43	
15	QPSK	36	39	23.09	22.90	23.01	23.31	23.29	
15	QPSK	75	0	23.13	22.84	22.87	23.31	23.27	24
15	16QAM	1	0	23.20	23.03	23.26	23.47	23.58	
15	16QAM	1	37	23.18	22.98	23.05	23.25	23.36	
15	16QAM	1	74	23.12	23.02	23.02	23.19	23.48	23
15	16QAM	36	0	22.20	21.86	21.95	22.36	22.35	
15	16QAM	36	20	22.14	21.99	21.98	22.36	22.38	
15	16QAM	36	39	22.07	21.92	22.02	22.27	22.35	23
15	16QAM	75	0	22.19	21.93	22.00	22.39	22.30	
15	64QAM	1	0	21.77	21.69	21.83	22.08	22.22	
15	64QAM	1	37	21.85	21.53	21.55	21.87	22.09	23
15	64QAM	1	74	21.67	21.50	21.58	21.86	22.03	
15	64QAM	36	0	21.26	21.02	20.96	21.27	21.37	
15	64QAM	36	20	21.18	20.84	20.95	21.22	21.43	22
15	64QAM	36	39	21.20	20.85	20.89	21.34	21.44	
15	64QAM	75	0	21.01	20.88	20.92	21.20	21.27	
15	256QAM	1	0	19.02	18.72	18.83	19.25	19.17	20
15	256QAM	1	37	18.70	18.70	18.73	19.07	18.97	
15	256QAM	1	74	18.65	18.63	18.63	19.02	18.95	
15	256QAM	36	0	19.09	18.87	19.06	19.35	19.46	20
15	256QAM	36	20	18.96	18.89	18.96	19.43	19.45	
15	256QAM	36	39	18.98	18.74	18.89	19.34	19.29	



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15	256QAM	75	0	19.05	18.98	19.01	19.31	19.37	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	24.02	24.01	24.00	24.27	24.48	25.00
10	QPSK	1	25	24.06	23.73	24.04	24.19	24.43	
10	QPSK	1	49	24.12	23.76	23.91	24.15	24.25	
10	QPSK	25	0	23.11	22.94	23.04	23.29	23.43	24
10	QPSK	25	12	23.24	22.90	22.91	23.32	23.38	
10	QPSK	25	25	23.00	22.96	23.00	23.20	23.29	
10	QPSK	50	0	23.19	22.88	23.05	23.26	23.38	
10	16QAM	1	0	23.34	23.00	23.18	23.47	23.64	24
10	16QAM	1	25	23.22	22.93	23.04	23.20	23.43	
10	16QAM	1	49	23.10	22.98	23.06	23.21	23.51	
10	16QAM	25	0	22.13	21.95	22.08	22.31	22.50	23
10	16QAM	25	12	22.24	21.83	21.91	22.23	22.46	
10	16QAM	25	25	22.07	21.92	21.99	22.35	22.43	
10	16QAM	50	0	22.07	21.84	22.04	22.24	22.40	
10	64QAM	1	0	21.76	21.68	21.65	22.13	22.13	23
10	64QAM	1	25	21.73	21.52	21.73	21.91	22.14	
10	64QAM	1	49	21.67	21.57	21.64	21.75	21.90	
10	64QAM	25	0	21.26	20.87	21.03	21.29	21.34	22
10	64QAM	25	12	21.08	20.80	20.89	21.31	21.34	
10	64QAM	25	25	21.13	20.93	21.04	21.34	21.39	
10	64QAM	50	0	21.06	20.98	20.91	21.27	21.41	
10	256QAM	1	0	18.86	18.71	18.87	19.15	19.26	20
10	256QAM	1	25	18.89	18.77	18.67	19.03	19.01	
10	256QAM	1	49	18.62	18.60	18.62	19.06	19.02	
10	256QAM	25	0	19.13	19.01	19.17	19.45	19.39	20
10	256QAM	25	12	18.95	18.85	18.99	19.27	19.27	
10	256QAM	25	25	18.89	18.74	18.99	19.27	19.21	
10	256QAM	50	0	19.14	18.89	19.02	19.34	19.23	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	24.02	23.87	24.04	24.31	24.48	25.00
5	QPSK	1	12	24.06	23.80	24.02	24.17	24.42	
5	QPSK	1	24	23.98	23.85	23.98	24.23	24.41	
5	QPSK	12	0	23.13	22.96	23.11	23.32	23.48	24
5	QPSK	12	7	23.07	22.94	23.01	23.26	23.41	
5	QPSK	12	13	23.00	22.94	23.01	23.27	23.38	
5	QPSK	25	0	23.03	22.93	23.07	23.30	23.26	
5	16QAM	1	0	23.24	23.11	23.16	23.32	23.59	24
5	16QAM	1	12	23.15	22.80	23.07	23.27	23.46	
5	16QAM	1	24	23.17	22.83	22.93	23.33	23.38	
5	16QAM	12	0	22.11	22.03	22.06	22.30	22.50	23
5	16QAM	12	7	22.10	21.86	21.98	22.35	22.39	
5	16QAM	12	13	22.11	21.89	21.95	22.26	22.30	
5	16QAM	25	0	22.17	21.99	22.00	22.36	22.44	
5	64QAM	1	0	21.79	21.55	21.84	22.13	22.19	23
5	64QAM	1	12	21.76	21.45	21.69	21.93	22.09	
5	64QAM	1	24	21.69	21.46	21.68	21.88	21.93	
5	64QAM	12	0	21.09	20.86	21.01	21.31	21.48	22
5	64QAM	12	7	21.17	20.93	20.91	21.29	21.32	
5	64QAM	12	13	21.18	20.90	20.92	21.27	21.36	
5	64QAM	25	0	21.18	20.86	20.96	21.32	21.38	
5	256QAM	1	0	18.82	18.71	18.82	19.14	19.18	20
5	256QAM	1	12	18.70	18.75	18.69	19.04	19.09	
5	256QAM	1	24	18.59	18.60	18.62	18.91	18.96	
5	256QAM	12	0	19.05	18.91	19.01	19.43	19.38	20
5	256QAM	12	7	18.96	18.81	18.99	19.26	19.44	
5	256QAM	12	13	19.05	18.86	18.90	19.16	19.18	
5	256QAM	25	0	19.11	18.85	18.96	19.31	19.27	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.18	23.32	23.37	23.29	23.63	23.9
20	QPSK	1	49	23.12	23.32	23.29	23.25	23.61	
20	QPSK	1	99	23.11	23.29	23.14	23.20	23.58	
20	QPSK	50	0	22.78	22.95	22.91	22.92	23.28	23.9
20	QPSK	50	24	22.76	22.93	22.89	22.86	23.27	
20	QPSK	50	50	22.75	22.91	22.80	22.84	23.25	
20	QPSK	100	0	22.79	22.92	22.88	22.87	23.22	23.9
20	16QAM	1	0	22.85	23.02	23.08	22.98	23.24	
20	16QAM	1	49	22.84	22.92	22.95	22.79	23.17	
20	16QAM	1	99	22.70	22.98	22.84	22.74	23.15	23
20	16QAM	50	0	21.77	21.89	21.96	21.86	22.15	
20	16QAM	50	24	21.74	21.91	21.92	21.81	22.17	
20	16QAM	50	50	21.71	21.92	21.83	21.77	22.17	23
20	16QAM	100	0	21.74	21.88	21.89	21.78	22.17	
20	64QAM	1	0	21.44	21.62	21.60	21.61	21.93	
20	64QAM	1	49	21.44	21.65	21.58	21.56	21.88	22
20	64QAM	1	99	21.40	21.66	21.37	21.44	21.79	
20	64QAM	50	0	20.79	20.93	20.88	20.89	21.23	
20	64QAM	50	24	20.74	20.94	20.84	20.84	21.20	20
20	64QAM	50	50	20.73	20.92	20.78	20.79	21.17	
20	64QAM	100	0	20.74	20.94	20.85	20.84	21.21	
20	256QAM	1	0	18.70	18.76	19.04	18.90	19.09	20
20	256QAM	1	49	18.66	18.66	18.78	18.60	19.01	
20	256QAM	1	99	18.42	18.49	18.66	18.42	18.90	
20	256QAM	50	0	18.90	18.81	19.09	18.88	19.22	20
20	256QAM	50	24	18.73	18.80	19.13	18.95	19.31	
20	256QAM	50	50	18.70	18.71	18.98	18.77	19.10	
20	256QAM	100	0	18.86	18.75	18.90	18.81	19.20	Tune-up limit (dBm)
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	23.16	23.22	23.21	23.17	23.52	23.90
15	QPSK	1	37	23.12	23.16	23.12	23.14	23.59	
15	QPSK	1	74	23.09	23.15	23.06	23.20	23.39	
15	QPSK	36	0	22.73	22.78	22.80	22.86	23.18	23.9
15	QPSK	36	20	22.58	22.89	22.69	22.73	23.08	
15	QPSK	36	39	22.67	22.79	22.60	22.77	23.10	
15	QPSK	75	0	22.66	22.90	22.76	22.79	23.10	23.9
15	16QAM	1	0	22.65	22.88	23.05	22.84	23.14	
15	16QAM	1	37	22.80	22.89	22.91	22.71	23.14	
15	16QAM	1	74	22.62	22.98	22.76	22.71	23.01	23
15	16QAM	36	0	21.65	21.74	21.81	21.78	22.03	
15	16QAM	36	20	21.68	21.75	21.79	21.72	21.98	
15	16QAM	36	39	21.51	21.91	21.68	21.57	22.02	23
15	16QAM	75	0	21.68	21.85	21.73	21.71	22.17	
15	64QAM	1	0	21.40	21.59	21.59	21.46	21.75	
15	64QAM	1	37	21.38	21.45	21.47	21.39	21.88	22
15	64QAM	1	74	21.37	21.50	21.24	21.33	21.69	
15	64QAM	36	0	20.65	20.93	20.86	20.78	21.21	
15	64QAM	36	20	20.66	20.89	20.68	20.80	21.13	20
15	64QAM	36	39	20.73	20.77	20.58	20.64	21.07	
15	64QAM	75	0	20.72	20.82	20.78	20.75	21.17	
15	256QAM	1	0	18.52	18.65	18.99	18.75	18.98	20
15	256QAM	1	37	18.56	18.50	18.70	18.60	18.82	
15	256QAM	1	74	18.40	18.30	18.57	18.28	18.84	
15	256QAM	36	0	18.70	18.75	18.93	18.88	19.11	20
15	256QAM	36	20	18.54	18.73	19.12	18.84	19.28	
15	256QAM	36	39	18.57	18.57	18.91	18.75	18.95	



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15	256QAM	75	0	18.76	18.61	18.79	18.66	19.05	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	23.17	23.18	23.22	23.18	23.50	23.90
10	QPSK	1	25	22.96	23.18	23.27	23.18	23.51	
10	QPSK	1	49	22.97	23.22	23.10	23.20	23.42	
10	QPSK	25	0	22.65	22.82	22.89	22.79	23.24	23.9
10	QPSK	25	12	22.59	22.80	22.83	22.67	23.21	
10	QPSK	25	25	22.67	22.85	22.64	22.69	23.14	
10	QPSK	50	0	22.73	22.83	22.88	22.71	23.08	
10	16QAM	1	0	22.76	22.96	23.08	22.96	23.20	23.9
10	16QAM	1	25	22.68	22.92	22.78	22.77	23.08	
10	16QAM	1	49	22.57	22.89	22.74	22.69	23.00	
10	16QAM	25	0	21.63	21.72	21.88	21.83	22.05	23
10	16QAM	25	12	21.64	21.82	21.86	21.77	22.06	
10	16QAM	25	25	21.58	21.88	21.82	21.61	22.10	
10	16QAM	50	0	21.68	21.73	21.88	21.67	22.02	
10	64QAM	1	0	21.32	21.53	21.40	21.49	21.90	23
10	64QAM	1	25	21.37	21.58	21.52	21.46	21.70	
10	64QAM	1	49	21.20	21.57	21.25	21.37	21.72	
10	64QAM	25	0	20.64	20.81	20.77	20.70	21.10	22
10	64QAM	25	12	20.62	20.90	20.66	20.69	21.01	
10	64QAM	25	25	20.62	20.81	20.72	20.71	21.00	
10	64QAM	50	0	20.66	20.79	20.80	20.75	21.12	
10	256QAM	1	0	18.59	18.71	18.90	18.78	19.03	20
10	256QAM	1	25	18.58	18.49	18.66	18.49	19.01	
10	256QAM	1	49	18.30	18.30	18.47	18.36	18.77	
10	256QAM	25	0	18.82	18.68	19.00	18.79	19.02	20
10	256QAM	25	12	18.62	18.70	19.08	18.75	19.22	
10	256QAM	25	25	18.61	18.55	18.81	18.59	19.06	
10	256QAM	50	0	18.70	18.61	18.78	18.72	19.00	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	23.18	23.15	23.33	23.13	23.45	23.90
5	QPSK	1	12	22.99	23.25	23.27	23.11	23.43	
5	QPSK	1	24	23.01	23.15	23.03	23.07	23.49	
5	QPSK	12	0	22.69	22.84	22.76	22.84	23.12	23.9
5	QPSK	12	7	22.72	22.86	22.84	22.85	23.20	
5	QPSK	12	13	22.57	22.75	22.80	22.68	23.10	
5	QPSK	25	0	22.59	22.81	22.84	22.73	23.22	
5	16QAM	1	0	22.80	22.85	23.06	22.89	23.15	23.9
5	16QAM	1	12	22.69	22.80	22.78	22.77	23.08	
5	16QAM	1	24	22.51	22.94	22.84	22.60	23.04	
5	16QAM	12	0	21.73	21.78	21.88	21.68	22.01	23
5	16QAM	12	7	21.54	21.75	21.86	21.79	21.97	
5	16QAM	12	13	21.70	21.74	21.71	21.63	22.10	
5	16QAM	25	0	21.62	21.68	21.70	21.77	22.15	
5	64QAM	1	0	21.34	21.44	21.59	21.55	21.82	23
5	64QAM	1	12	21.29	21.51	21.55	21.46	21.79	
5	64QAM	1	24	21.32	21.53	21.19	21.40	21.59	
5	64QAM	12	0	20.71	20.77	20.75	20.86	21.22	22
5	64QAM	12	7	20.54	20.75	20.77	20.83	21.20	
5	64QAM	12	13	20.62	20.84	20.76	20.69	21.07	
5	64QAM	25	0	20.55	20.85	20.80	20.71	21.20	
5	256QAM	1	0	18.70	18.74	18.91	18.84	19.01	20
5	256QAM	1	12	18.46	18.48	18.64	18.60	18.94	
5	256QAM	1	24	18.33	18.38	18.63	18.28	18.83	
5	256QAM	12	0	18.79	18.68	18.96	18.84	19.05	20
5	256QAM	12	7	18.73	18.80	19.03	18.82	19.20	
5	256QAM	12	13	18.56	18.65	18.86	18.62	18.97	
5	256QAM	25	0	18.86	18.55	18.71	18.64	19.10	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.83	24.00	23.92	24.09	24.16	25
20	QPSK	1	49	23.82	24.05	23.92	24.02	24.09	
20	QPSK	1	99	23.74	23.97	23.81	23.90	24.04	
20	QPSK	50	0	22.82	22.95	22.90	23.01	23.09	24
20	QPSK	50	24	22.80	22.96	22.87	23.00	23.09	
20	QPSK	50	50	22.76	22.92	22.82	22.93	23.08	
20	QPSK	100	0	22.80	22.86	22.88	22.90	23.00	24
20	16QAM	1	0	22.85	23.02	23.04	23.13	23.12	
20	16QAM	1	49	22.70	22.92	22.88	22.93	22.96	
20	16QAM	1	99	22.70	22.98	22.90	22.84	23.00	23
20	16QAM	50	0	21.81	21.93	21.94	21.99	22.00	
20	16QAM	50	24	21.77	21.93	21.92	21.93	21.98	
20	16QAM	50	50	21.73	21.93	21.87	21.87	21.99	23
20	16QAM	100	0	21.76	21.92	21.91	21.92	21.98	
20	64QAM	1	0	21.51	21.69	21.59	21.74	21.79	
20	64QAM	1	49	21.47	21.71	21.53	21.66	21.74	22
20	64QAM	1	99	21.41	21.61	21.45	21.52	21.68	
20	64QAM	50	0	20.81	20.97	20.88	21.02	21.05	
20	64QAM	50	24	20.78	20.95	20.83	20.95	21.03	20
20	64QAM	50	50	20.75	20.93	20.83	20.91	21.00	
20	64QAM	100	0	20.80	20.95	20.83	20.95	21.03	
20	256QAM	1	0	18.67	18.80	18.69	18.87	18.83	20
20	256QAM	1	49	18.49	18.70	18.60	18.75	18.73	
20	256QAM	1	99	18.47	18.61	18.55	18.69	18.64	
20	256QAM	50	0	18.83	18.89	18.88	19.05	19.00	20
20	256QAM	50	24	18.76	18.97	18.86	19.04	18.93	
20	256QAM	50	50	18.78	18.96	18.85	19.03	18.93	
20	256QAM	100	0	18.74	18.89	18.84	19.00	18.91	Tune-up limit (dBm)
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	23.75	23.93	23.78	23.89	24.00	25.00
15	QPSK	1	37	23.66	23.85	23.89	24.00	24.03	
15	QPSK	1	74	23.56	23.87	23.73	23.82	24.01	
15	QPSK	36	0	22.78	22.88	22.76	22.83	23.03	24
15	QPSK	36	20	22.69	22.80	22.75	22.90	23.08	
15	QPSK	36	39	22.61	22.90	22.70	22.92	22.88	
15	QPSK	75	0	22.73	22.85	22.86	22.89	22.90	24
15	16QAM	1	0	22.65	22.93	22.94	23.02	22.93	
15	16QAM	1	37	22.65	22.82	22.78	22.91	22.77	
15	16QAM	1	74	22.58	22.87	22.85	22.75	23.00	23
15	16QAM	36	0	21.73	21.79	21.92	21.92	21.90	
15	16QAM	36	20	21.70	21.77	21.81	21.73	21.78	
15	16QAM	36	39	21.60	21.92	21.67	21.79	21.88	23
15	16QAM	75	0	21.71	21.90	21.77	21.79	21.78	
15	64QAM	1	0	21.33	21.56	21.54	21.69	21.62	
15	64QAM	1	37	21.28	21.59	21.43	21.61	21.57	22
15	64QAM	1	74	21.32	21.56	21.36	21.39	21.63	
15	64QAM	36	0	20.74	20.80	20.71	20.98	21.04	
15	64QAM	36	20	20.76	20.91	20.76	20.81	20.90	20
15	64QAM	36	39	20.65	20.75	20.82	20.82	20.94	
15	64QAM	75	0	20.70	20.77	20.74	20.87	20.87	
15	256QAM	1	0	18.59	18.66	18.50	18.72	18.82	20
15	256QAM	1	37	18.44	18.67	18.59	18.75	18.54	
15	256QAM	1	74	18.40	18.56	18.51	18.62	18.63	
15	256QAM	36	0	18.81	18.86	18.88	18.97	19.00	20
15	256QAM	36	20	18.62	18.88	18.77	18.91	18.90	
15	256QAM	36	39	18.64	18.83	18.70	18.87	18.81	



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15	256QAM	75	0	18.73	18.87	18.65	18.86	18.88	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	23.70	24.00	23.91	23.91	23.99	25.00
10	QPSK	1	25	23.63	23.99	23.81	23.82	23.97	
10	QPSK	1	49	23.61	23.87	23.81	23.76	23.97	
10	QPSK	25	0	22.72	22.80	22.73	22.88	22.96	24
10	QPSK	25	12	22.64	22.80	22.71	22.98	23.06	
10	QPSK	25	25	22.68	22.84	22.73	22.76	23.02	
10	QPSK	50	0	22.76	22.73	22.81	22.83	22.89	
10	16QAM	1	0	22.84	22.88	22.86	23.00	22.99	24
10	16QAM	1	25	22.66	22.79	22.72	22.84	22.83	
10	16QAM	1	49	22.62	22.86	22.84	22.80	22.87	
10	16QAM	25	0	21.73	21.82	21.75	21.93	21.97	23
10	16QAM	25	12	21.75	21.88	21.73	21.84	21.92	
10	16QAM	25	25	21.54	21.73	21.72	21.74	21.86	
10	16QAM	50	0	21.57	21.87	21.77	21.91	21.88	
10	64QAM	1	0	21.35	21.58	21.43	21.59	21.67	23
10	64QAM	1	25	21.44	21.69	21.45	21.63	21.71	
10	64QAM	1	49	21.26	21.59	21.25	21.46	21.55	
10	64QAM	25	0	20.68	20.92	20.69	20.85	20.90	22
10	64QAM	25	12	20.78	20.82	20.80	20.80	20.87	
10	64QAM	25	25	20.55	20.80	20.76	20.80	20.98	
10	64QAM	50	0	20.72	20.92	20.66	20.94	20.89	
10	256QAM	1	0	18.63	18.75	18.53	18.84	18.81	20
10	256QAM	1	25	18.29	18.61	18.56	18.60	18.64	
10	256QAM	1	49	18.40	18.54	18.44	18.57	18.44	
10	256QAM	25	0	18.69	18.76	18.84	18.93	18.90	20
10	256QAM	25	12	18.62	18.95	18.69	18.95	18.75	
10	256QAM	25	25	18.66	18.89	18.79	19.00	18.74	
10	256QAM	50	0	18.57	18.85	18.80	18.98	18.78	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	23.76	23.92	23.84	23.94	24.09	25.00
5	QPSK	1	12	23.69	23.88	23.79	23.97	23.98	
5	QPSK	1	24	23.61	23.86	23.79	23.72	23.87	
5	QPSK	12	0	22.63	22.83	22.88	22.97	22.98	24
5	QPSK	12	7	22.77	22.91	22.86	22.87	23.02	
5	QPSK	12	13	22.75	22.86	22.82	22.78	23.07	
5	QPSK	25	0	22.60	22.76	22.86	22.88	22.85	
5	16QAM	1	0	22.83	22.97	22.95	22.94	22.96	24
5	16QAM	1	12	22.59	22.91	22.70	22.93	22.85	
5	16QAM	1	24	22.56	22.93	22.79	22.77	22.90	
5	16QAM	12	0	21.65	21.78	21.79	21.79	21.94	23
5	16QAM	12	7	21.74	21.78	21.85	21.86	21.94	
5	16QAM	12	13	21.66	21.83	21.82	21.86	21.91	
5	16QAM	25	0	21.63	21.85	21.81	21.74	21.97	
5	64QAM	1	0	21.50	21.56	21.59	21.62	21.71	23
5	64QAM	1	12	21.33	21.61	21.35	21.47	21.61	
5	64QAM	1	24	21.30	21.57	21.37	21.42	21.61	
5	64QAM	12	0	20.62	20.96	20.77	20.85	21.00	22
5	64QAM	12	7	20.74	20.84	20.79	20.89	20.90	
5	64QAM	12	13	20.67	20.92	20.75	20.72	20.94	
5	64QAM	25	0	20.77	20.91	20.69	20.86	20.89	
5	256QAM	1	0	18.47	18.65	18.59	18.68	18.74	20
5	256QAM	1	12	18.40	18.53	18.47	18.64	18.72	
5	256QAM	1	24	18.47	18.42	18.45	18.64	18.47	
5	256QAM	12	0	18.79	18.81	18.83	19.05	18.98	20
5	256QAM	12	7	18.64	18.83	18.81	18.96	18.74	
5	256QAM	12	13	18.69	18.89	18.82	18.90	18.90	
5	256QAM	25	0	18.71	18.77	18.67	18.97	18.85	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	21.09	21.25	21.13	21.31	21.45	21.9
20	QPSK	1	49	21.05	21.15	21.04	21.23	21.33	
20	QPSK	1	99	21.04	21.17	20.97	21.17	21.29	
20	QPSK	50	0	21.11	21.22	21.18	21.32	21.42	21.9
20	QPSK	50	24	21.12	21.24	21.13	21.31	21.36	
20	QPSK	50	50	21.10	21.19	21.09	21.32	21.29	
20	QPSK	100	0	21.12	21.24	21.14	21.31	21.34	21.9
20	16QAM	1	0	21.10	21.19	21.11	21.34	21.37	
20	16QAM	1	49	20.99	21.13	21.01	21.20	21.29	
20	16QAM	1	99	21.03	21.14	20.98	21.06	21.26	21.9
20	16QAM	50	0	21.17	21.32	21.22	21.30	21.38	
20	16QAM	50	24	21.18	21.27	21.23	21.41	21.40	
20	16QAM	50	50	21.19	21.27	21.14	21.36	21.37	21.9
20	16QAM	100	0	21.16	21.28	21.20	21.40	21.32	
20	64QAM	1	0	20.87	21.04	20.97	21.11	21.24	
20	64QAM	1	49	20.80	20.96	20.85	20.98	21.14	21.9
20	64QAM	1	99	20.86	20.97	20.84	20.90	21.10	
20	64QAM	50	0	21.15	21.27	21.20	21.34	21.33	
20	64QAM	50	24	21.16	21.27	21.19	21.32	21.35	21.9
20	64QAM	50	50	21.12	21.25	21.14	21.33	21.37	
20	64QAM	100	0	21.14	21.23	21.17	21.33	21.17	
20	256QAM	1	0	21.03	21.11	21.08	21.18	21.31	21.9
20	256QAM	1	49	20.85	20.86	20.91	21.08	21.06	
20	256QAM	1	99	20.74	20.89	20.87	20.90	21.06	
20	256QAM	50	0	20.96	21.20	21.08	21.26	21.21	21.9
20	256QAM	50	24	20.95	21.12	21.03	21.17	21.19	
20	256QAM	50	50	20.90	21.01	20.94	21.08	21.12	
20	256QAM	100	0	20.92	21.09	20.98	21.13	21.18	Tune-up limit (dBm)
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	20.99	21.14	20.98	21.13	21.30	21.90
15	QPSK	1	37	20.86	20.96	20.88	21.04	21.18	
15	QPSK	1	74	20.85	21.00	20.87	20.97	21.09	
15	QPSK	36	0	20.96	21.12	21.07	21.20	21.23	21.9
15	QPSK	36	20	20.92	21.12	21.01	21.15	21.20	
15	QPSK	36	39	20.98	21.08	20.90	21.15	21.16	
15	QPSK	75	0	21.02	21.11	21.02	21.12	21.19	21.9
15	16QAM	1	0	20.90	20.99	20.91	21.24	21.26	
15	16QAM	1	37	20.82	21.01	20.84	21.07	21.13	
15	16QAM	1	74	20.93	21.04	20.82	20.96	21.09	21.9
15	16QAM	36	0	21.07	21.20	21.11	21.16	21.23	
15	16QAM	36	20	21.03	21.17	21.09	21.26	21.26	
15	16QAM	36	39	21.01	21.07	21.04	21.17	21.18	21.9
15	16QAM	75	0	21.04	21.14	21.01	21.28	21.18	
15	64QAM	1	0	20.68	20.90	20.77	20.96	21.14	
15	64QAM	1	37	20.63	20.86	20.71	20.78	20.96	21.9
15	64QAM	1	74	20.76	20.83	20.69	20.79	20.93	
15	64QAM	36	0	21.01	21.15	21.08	21.15	21.21	
15	64QAM	36	20	20.99	21.10	20.99	21.19	21.23	21.9
15	64QAM	36	39	20.92	21.08	20.94	21.21	21.22	
15	64QAM	75	0	21.01	21.03	21.00	21.13	21.07	
15	256QAM	1	0	21.03	21.09	21.04	21.20	21.24	21.9
15	256QAM	1	37	20.82	20.94	20.93	21.02	21.04	
15	256QAM	1	74	20.73	20.87	20.88	20.99	21.05	
15	256QAM	36	0	20.98	21.24	21.11	21.26	21.20	21.9
15	256QAM	36	20	20.96	21.04	21.07	21.11	21.21	
15	256QAM	36	39	20.90	21.05	20.96	21.08	21.15	



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15	256QAM	75	0	20.89	21.09	20.97	21.09	21.11	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	20.90	21.10	21.00	21.17	21.28	21.90
10	QPSK	1	25	20.90	21.02	20.89	21.07	21.20	
10	QPSK	1	49	20.92	20.97	20.87	21.01	21.18	
10	QPSK	25	0	20.95	21.02	20.98	21.20	21.29	21.9
10	QPSK	25	12	21.02	21.04	20.97	21.13	21.16	
10	QPSK	25	25	20.98	21.03	20.96	21.21	21.11	
10	QPSK	50	0	20.92	21.07	20.96	21.16	21.21	
10	16QAM	1	0	20.91	21.06	20.94	21.19	21.20	21.9
10	16QAM	1	25	20.82	21.02	20.90	21.04	21.16	
10	16QAM	1	49	20.85	21.01	20.86	20.89	21.16	
10	16QAM	25	0	21.01	21.13	21.04	21.19	21.18	21.9
10	16QAM	25	12	20.99	21.11	21.07	21.31	21.24	
10	16QAM	25	25	21.06	21.13	21.02	21.20	21.23	
10	16QAM	50	0	21.04	21.14	21.01	21.20	21.19	
10	64QAM	1	0	20.72	20.87	20.81	20.94	21.12	21.9
10	64QAM	1	25	20.62	20.78	20.71	20.81	20.94	
10	64QAM	1	49	20.74	20.79	20.65	20.78	20.98	
10	64QAM	25	0	21.04	21.13	21.04	21.18	21.15	21.9
10	64QAM	25	12	21.00	21.16	20.99	21.14	21.15	
10	64QAM	25	25	20.97	21.14	21.00	21.13	21.20	
10	64QAM	50	0	21.01	21.05	21.00	21.21	21.03	
10	256QAM	1	0	21.04	21.15	21.07	21.20	21.31	21.9
10	256QAM	1	25	20.90	20.92	20.91	21.08	21.05	
10	256QAM	1	49	20.82	20.84	20.87	20.92	21.10	
10	256QAM	25	0	20.96	21.16	21.10	21.23	21.23	21.9
10	256QAM	25	12	20.89	21.03	21.00	21.20	21.18	
10	256QAM	25	25	20.88	21.05	21.01	21.09	21.19	
10	256QAM	50	0	20.88	21.11	20.98	21.14	21.19	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	20.90	21.12	20.94	21.12	21.29	21.90
5	QPSK	1	12	20.89	21.00	20.87	21.06	21.14	
5	QPSK	1	24	20.92	21.03	20.78	21.03	21.12	
5	QPSK	12	0	20.99	21.10	21.02	21.15	21.28	21.9
5	QPSK	12	7	21.00	21.11	21.00	21.19	21.18	
5	QPSK	12	13	21.00	21.01	20.99	21.13	21.12	
5	QPSK	25	0	20.92	21.09	20.99	21.14	21.17	
5	16QAM	1	0	20.91	21.08	20.92	21.19	21.27	21.9
5	16QAM	1	12	20.89	21.00	20.82	21.04	21.16	
5	16QAM	1	24	20.88	20.96	20.83	20.87	21.06	
5	16QAM	12	0	21.03	21.13	21.04	21.15	21.26	21.9
5	16QAM	12	7	21.00	21.08	21.06	21.29	21.23	
5	16QAM	12	13	21.08	21.10	21.04	21.20	21.27	
5	16QAM	25	0	21.03	21.18	21.04	21.27	21.21	
5	64QAM	1	0	20.68	20.89	20.85	21.00	21.05	21.9
5	64QAM	1	12	20.64	20.85	20.66	20.83	20.98	
5	64QAM	1	24	20.72	20.79	20.69	20.70	20.98	
5	64QAM	12	0	20.97	21.07	21.00	21.22	21.18	21.9
5	64QAM	12	7	21.05	21.15	21.02	21.13	21.20	
5	64QAM	12	13	20.93	21.15	20.94	21.16	21.23	
5	64QAM	25	0	20.99	21.09	21.07	21.14	21.02	
5	256QAM	1	0	21.04	21.09	21.00	21.18	21.24	21.9
5	256QAM	1	12	20.83	20.96	20.93	21.07	21.14	
5	256QAM	1	24	20.74	20.82	20.82	20.96	21.05	
5	256QAM	12	0	21.00	21.14	21.10	21.25	21.29	21.9
5	256QAM	12	7	20.93	21.09	21.03	21.17	21.25	
5	256QAM	12	13	20.91	21.08	21.01	20.99	21.18	
5	256QAM	25	0	20.88	21.10	20.99	21.08	21.15	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.90	25.74	26.00	26.12	26.26	27
20	QPSK	1	49	25.85	25.64	25.88	26.02	26.15	
20	QPSK	1	99	25.83	25.72	25.86	26.00	26.11	
20	QPSK	50	0	25.23	24.98	25.02	25.36	25.42	26
20	QPSK	50	24	25.20	24.97	24.97	25.32	25.37	
20	QPSK	50	50	25.13	24.94	24.94	25.29	25.33	
20	QPSK	100	0	25.16	24.94	24.97	25.34	25.38	
20	16QAM	1	0	25.21	25.10	25.36	25.46	25.62	26
20	16QAM	1	49	25.17	24.97	25.24	25.31	25.51	
20	16QAM	1	99	25.17	25.06	25.24	25.33	25.46	
20	16QAM	50	0	24.20	23.98	24.07	24.33	24.45	25
20	16QAM	50	24	24.17	23.96	24.03	24.30	24.41	
20	16QAM	50	50	24.13	23.92	24.00	24.27	24.37	
20	16QAM	100	0	24.14	23.91	24.01	24.30	24.39	
20	64QAM	1	0	24.07	23.92	24.08	24.26	24.43	25
20	64QAM	1	49	24.02	23.77	23.98	24.11	24.32	
20	64QAM	1	99	23.97	23.80	23.95	24.08	24.27	
20	64QAM	50	0	23.11	22.89	23.00	23.25	23.37	24
20	64QAM	50	24	23.08	22.86	22.95	23.21	23.32	
20	64QAM	50	50	23.06	22.85	22.94	23.20	23.29	
20	64QAM	100	0	23.07	22.84	22.95	23.22	23.32	
20	256QAM	1	0	21.13	20.95	21.03	21.32	21.45	22
20	256QAM	1	49	20.93	20.76	20.91	21.10	21.33	
20	256QAM	1	99	20.86	20.68	20.85	21.08	21.17	
20	256QAM	50	0	21.16	21.01	21.10	21.37	21.44	22
20	256QAM	50	24	21.12	20.94	21.03	21.25	21.37	
20	256QAM	50	50	21.03	20.85	20.99	21.27	21.41	
20	256QAM	100	0	21.05	20.84	21.02	21.23	21.43	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	25.84	25.55	25.82	26.00	26.11	27.00
15	QPSK	1	37	25.68	25.57	25.69	26.00	26.11	
15	QPSK	1	74	25.73	25.67	25.71	25.99	25.91	
15	QPSK	36	0	25.15	24.92	25.00	25.33	25.35	26
15	QPSK	36	20	25.05	24.81	24.94	25.21	25.36	
15	QPSK	36	39	25.04	24.76	24.85	25.26	25.15	
15	QPSK	75	0	25.07	24.85	24.90	25.28	25.31	26
15	16QAM	1	0	25.02	24.97	25.36	25.43	25.51	
15	16QAM	1	37	25.04	24.79	25.22	25.25	25.39	
15	16QAM	1	74	25.07	25.05	25.15	25.15	25.34	25
15	16QAM	36	0	24.09	23.89	23.97	24.26	24.28	
15	16QAM	36	20	24.10	23.92	23.90	24.11	24.21	
15	16QAM	36	39	23.99	23.92	23.93	24.13	24.34	
15	16QAM	75	0	24.06	23.89	23.84	24.23	24.21	25
15	64QAM	1	0	23.93	23.84	24.06	24.13	24.42	
15	64QAM	1	37	23.97	23.70	23.96	23.95	24.27	
15	64QAM	1	74	23.82	23.72	23.95	24.05	24.10	24
15	64QAM	36	0	23.06	22.69	22.95	23.18	23.27	
15	64QAM	36	20	22.93	22.75	22.75	23.03	23.20	
15	64QAM	36	39	22.97	22.73	22.84	23.13	23.24	
15	64QAM	75	0	23.06	22.74	22.94	23.16	23.12	22
15	256QAM	1	0	21.03	20.81	20.86	21.32	21.37	
15	256QAM	1	37	20.79	20.63	20.80	21.03	21.22	
15	256QAM	1	74	20.68	20.63	20.82	20.96	21.15	
15	256QAM	36	0	20.97	20.90	20.99	21.26	21.37	22
15	256QAM	36	20	20.94	20.84	20.97	21.10	21.24	
15	256QAM	36	39	21.02	20.80	20.87	21.17	21.32	



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15	256QAM	75	0	20.85	20.76	20.93	21.10	21.26	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	25.79	25.63	25.99	26.10	26.15	27.00
10	QPSK	1	25	25.85	25.60	25.71	25.86	26.15	
10	QPSK	1	49	25.80	25.62	25.66	25.80	26.04	
10	QPSK	25	0	25.08	24.84	24.98	25.29	25.41	26
10	QPSK	25	12	25.13	24.82	24.89	25.24	25.17	
10	QPSK	25	25	24.97	24.91	24.76	25.10	25.32	
10	QPSK	50	0	24.96	24.85	24.77	25.31	25.19	
10	16QAM	1	0	25.09	25.09	25.23	25.32	25.43	26
10	16QAM	1	25	25.17	24.79	25.13	25.16	25.35	
10	16QAM	1	49	25.02	24.89	25.13	25.27	25.46	
10	16QAM	25	0	24.06	23.85	24.06	24.18	24.28	25
10	16QAM	25	12	23.98	23.90	23.89	24.24	24.40	
10	16QAM	25	25	24.10	23.75	23.80	24.24	24.34	
10	16QAM	50	0	24.02	23.80	23.99	24.17	24.34	
10	64QAM	1	0	24.00	23.91	24.05	24.20	24.41	25
10	64QAM	1	25	23.82	23.62	23.82	23.96	24.23	
10	64QAM	1	49	23.92	23.66	23.78	23.99	24.19	
10	64QAM	25	0	23.06	22.76	22.95	23.23	23.26	24
10	64QAM	25	12	22.95	22.85	22.91	23.03	23.32	
10	64QAM	25	25	23.02	22.67	22.80	23.02	23.25	
10	64QAM	50	0	22.89	22.69	22.82	23.21	23.15	
10	256QAM	1	0	21.01	20.83	20.90	21.16	21.41	22
10	256QAM	1	25	20.84	20.69	20.77	20.94	21.30	
10	256QAM	1	49	20.84	20.60	20.73	21.00	21.11	
10	256QAM	25	0	21.10	20.91	20.92	21.25	21.26	22
10	256QAM	25	12	21.07	20.86	20.84	21.10	21.21	
10	256QAM	25	25	20.84	20.65	20.93	21.22	21.30	
10	256QAM	50	0	20.91	20.76	20.82	21.04	21.39	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	25.83	25.67	25.84	25.94	26.20	27.00
5	QPSK	1	12	25.78	25.59	25.81	26.00	26.08	
5	QPSK	1	24	25.82	25.52	25.86	25.90	26.09	
5	QPSK	12	0	25.12	24.97	24.96	25.20	25.34	26
5	QPSK	12	7	25.07	24.84	24.87	25.21	25.17	
5	QPSK	12	13	25.06	24.77	24.86	25.20	25.24	
5	QPSK	25	0	25.04	24.92	24.94	25.20	25.31	
5	16QAM	1	0	25.03	24.98	25.35	25.36	25.50	26
5	16QAM	1	12	25.00	24.92	25.24	25.18	25.49	
5	16QAM	1	24	24.97	24.86	25.07	25.26	25.29	
5	16QAM	12	0	24.05	23.79	23.90	24.27	24.45	25
5	16QAM	12	7	24.05	23.91	23.99	24.17	24.33	
5	16QAM	12	13	24.02	23.74	23.91	24.27	24.36	
5	16QAM	25	0	23.97	23.71	23.81	24.15	24.34	
5	64QAM	1	0	23.97	23.73	23.94	24.21	24.33	25
5	64QAM	1	12	23.91	23.73	23.84	24.06	24.28	
5	64QAM	1	24	23.91	23.60	23.75	23.95	24.11	
5	64QAM	12	0	22.98	22.81	22.84	23.19	23.35	24
5	64QAM	12	7	22.89	22.75	22.94	23.08	23.27	
5	64QAM	12	13	22.93	22.73	22.91	23.08	23.15	
5	64QAM	25	0	22.92	22.83	22.87	23.02	23.19	
5	256QAM	1	0	21.09	20.87	20.90	21.26	21.34	22
5	256QAM	1	12	20.83	20.64	20.73	20.98	21.14	
5	256QAM	1	24	20.70	20.53	20.81	20.99	21.04	
5	256QAM	12	0	21.08	20.89	20.92	21.17	21.28	22
5	256QAM	12	7	21.01	20.82	20.84	21.17	21.28	
5	256QAM	12	13	20.91	20.66	20.99	21.12	21.30	
5	256QAM	25	0	21.03	20.67	20.82	21.12	21.34	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.72	24.82	24.96	24.83	25.13	25.6
20	QPSK	1	49	24.57	24.79	24.86	24.70	25.00	
20	QPSK	1	99	24.56	24.84	24.74	24.56	25.00	
20	QPSK	50	0	24.90	24.92	25.04	25.00	25.10	25.6
20	QPSK	50	24	24.82	24.92	24.90	24.92	25.08	
20	QPSK	50	50	24.82	25.02	24.90	24.83	25.06	
20	QPSK	100	0	24.81	24.86	24.89	24.89	25.09	
20	16QAM	1	0	24.40	24.54	24.67	24.54	24.86	25.6
20	16QAM	1	49	24.39	24.59	24.61	24.36	24.81	
20	16QAM	1	99	24.34	24.60	24.48	24.36	24.76	
20	16QAM	50	0	23.89	23.98	24.08	23.99	24.27	25
20	16QAM	50	24	23.89	24.04	24.02	23.98	24.23	
20	16QAM	50	50	23.82	24.03	23.98	23.87	24.22	
20	16QAM	100	0	23.85	23.97	24.02	23.94	24.25	
20	64QAM	1	0	23.79	23.93	24.10	23.89	24.22	25
20	64QAM	1	49	23.72	23.88	23.94	23.81	24.19	
20	64QAM	1	99	23.86	24.00	23.82	23.63	24.13	
20	64QAM	50	0	22.87	22.97	23.01	22.90	23.21	24
20	64QAM	50	24	22.82	23.00	22.94	22.88	23.19	
20	64QAM	50	50	22.77	22.98	22.91	22.85	23.17	
20	64QAM	100	0	22.79	22.95	22.98	22.84	23.19	
20	256QAM	1	0	20.84	20.91	20.97	20.96	21.19	22
20	256QAM	1	49	20.70	20.85	20.94	20.88	21.03	
20	256QAM	1	99	20.63	20.63	20.73	20.72	20.87	
20	256QAM	50	0	20.84	20.93	21.00	21.01	21.21	22
20	256QAM	50	24	20.79	20.84	20.96	20.96	21.18	
20	256QAM	50	50	20.74	20.83	20.94	20.88	21.08	
20	256QAM	100	0	20.70	20.74	20.95	20.86	21.02	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	24.64	24.76	24.89	24.77	25.04	25.60
15	QPSK	1	37	24.50	24.71	24.79	24.61	24.92	
15	QPSK	1	74	24.47	24.77	24.64	24.49	24.92	
15	QPSK	36	0	24.80	24.85	24.95	24.95	25.06	25.6
15	QPSK	36	20	24.75	24.83	24.84	24.84	24.98	
15	QPSK	36	39	24.77	24.92	24.84	24.76	24.96	
15	QPSK	75	0	24.74	24.78	24.84	24.79	25.03	
15	16QAM	1	0	24.30	24.46	24.59	24.48	24.78	25.6
15	16QAM	1	37	24.31	24.54	24.51	24.30	24.71	
15	16QAM	1	74	24.29	24.55	24.42	24.26	24.71	
15	16QAM	36	0	23.80	23.88	23.99	23.89	24.17	25
15	16QAM	36	20	23.81	23.95	23.93	23.88	24.15	
15	16QAM	36	39	23.75	23.93	23.92	23.82	24.17	
15	16QAM	75	0	23.75	23.92	23.96	23.84	24.17	
15	64QAM	1	0	23.74	23.87	24.02	23.80	24.12	25
15	64QAM	1	37	23.62	23.83	23.84	23.76	24.14	
15	64QAM	1	74	23.76	23.94	23.75	23.55	24.08	
15	64QAM	36	0	22.79	22.89	22.91	22.81	23.15	24
15	64QAM	36	20	22.72	22.94	22.86	22.80	23.12	
15	64QAM	36	39	22.71	22.93	22.86	22.79	23.12	
15	64QAM	75	0	22.74	22.86	22.88	22.75	23.13	
15	256QAM	1	0	20.74	20.84	20.90	20.87	21.13	22
15	256QAM	1	37	20.65	20.79	20.85	20.83	20.94	
15	256QAM	1	74	20.57	20.57	20.64	20.62	20.82	
15	256QAM	36	0	20.78	20.85	20.91	20.95	21.13	22
15	256QAM	36	20	20.70	20.75	20.88	20.89	21.08	
15	256QAM	36	39	20.68	20.76	20.89	20.81	21.02	



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15	256QAM	75	0	20.60	20.66	20.86	20.80	20.94	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	24.65	24.77	24.89	24.74	25.06	25.60
10	QPSK	1	25	24.50	24.73	24.77	24.65	24.90	
10	QPSK	1	49	24.47	24.77	24.67	24.51	24.92	
10	QPSK	25	0	24.82	24.83	24.95	24.91	25.06	25.6
10	QPSK	25	12	24.75	24.83	24.82	24.82	24.98	
10	QPSK	25	25	24.76	24.97	24.80	24.73	25.01	
10	QPSK	50	0	24.76	24.78	24.80	24.84	25.02	
10	16QAM	1	0	24.32	24.48	24.58	24.48	24.80	25.6
10	16QAM	1	25	24.32	24.49	24.55	24.30	24.74	
10	16QAM	1	49	24.26	24.52	24.41	24.26	24.68	
10	16QAM	25	0	23.82	23.93	23.99	23.94	24.18	25
10	16QAM	25	12	23.83	23.97	23.93	23.89	24.15	
10	16QAM	25	25	23.75	23.95	23.88	23.81	24.14	
10	16QAM	50	0	23.80	23.89	23.97	23.88	24.15	
10	64QAM	1	0	23.73	23.86	24.04	23.84	24.15	25
10	64QAM	1	25	23.65	23.81	23.85	23.75	24.13	
10	64QAM	1	49	23.81	23.95	23.75	23.56	24.05	
10	64QAM	25	0	22.82	22.91	22.95	22.84	23.13	24
10	64QAM	25	12	22.75	22.92	22.84	22.82	23.11	
10	64QAM	25	25	22.67	22.88	22.82	22.80	23.07	
10	64QAM	50	0	22.71	22.87	22.89	22.75	23.14	
10	256QAM	1	0	20.74	20.81	20.91	20.90	21.14	22
10	256QAM	1	25	20.60	20.80	20.88	20.83	20.96	
10	256QAM	1	49	20.54	20.53	20.63	20.64	20.79	
10	256QAM	25	0	20.74	20.86	20.92	20.91	21.14	22
10	256QAM	25	12	20.69	20.78	20.91	20.91	21.09	
10	256QAM	25	25	20.66	20.73	20.86	20.79	21.01	
10	256QAM	50	0	20.60	20.65	20.86	20.79	20.94	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	24.63	24.74	24.91	24.74	25.03	25.60
5	QPSK	1	12	24.49	24.69	24.76	24.62	24.92	
5	QPSK	1	24	24.51	24.79	24.68	24.47	24.93	
5	QPSK	12	0	24.83	24.84	24.98	24.93	25.05	25.6
5	QPSK	12	7	24.77	24.83	24.82	24.84	24.98	
5	QPSK	12	13	24.74	24.93	24.80	24.77	25.01	
5	QPSK	25	0	24.74	24.79	24.80	24.81	25.02	
5	16QAM	1	0	24.34	24.44	24.57	24.48	24.81	25.6
5	16QAM	1	12	24.34	24.52	24.51	24.28	24.73	
5	16QAM	1	24	24.24	24.51	24.39	24.31	24.71	
5	16QAM	12	0	23.79	23.93	24.01	23.93	24.21	25
5	16QAM	12	7	23.79	23.95	23.97	23.93	24.17	
5	16QAM	12	13	23.73	23.93	23.89	23.79	24.12	
5	16QAM	25	0	23.77	23.92	23.95	23.86	24.20	
5	64QAM	1	0	23.72	23.88	24.01	23.83	24.13	25
5	64QAM	1	12	23.67	23.79	23.87	23.71	24.14	
5	64QAM	1	24	23.79	23.91	23.75	23.54	24.05	
5	64QAM	12	0	22.78	22.89	22.95	22.85	23.14	24
5	64QAM	12	7	22.72	22.91	22.84	22.81	23.13	
5	64QAM	12	13	22.72	22.92	22.83	22.77	23.08	
5	64QAM	25	0	22.74	22.88	22.90	22.79	23.10	
5	256QAM	1	0	20.74	20.82	20.87	20.87	21.09	22
5	256QAM	1	12	20.65	20.75	20.88	20.82	20.98	
5	256QAM	1	24	20.56	20.58	20.65	20.64	20.77	
5	256QAM	12	0	20.79	20.86	20.95	20.91	21.14	22
5	256QAM	12	7	20.71	20.75	20.89	20.86	21.09	
5	256QAM	12	13	20.69	20.76	20.85	20.79	20.98	
5	256QAM	25	0	20.64	20.64	20.87	20.78	20.93	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.63	25.77	25.88	25.85	25.89	27
20	QPSK	1	49	25.51	25.73	25.76	25.69	25.61	
20	QPSK	1	99	25.53	25.81	25.72	25.64	25.82	
20	QPSK	50	0	24.84	24.96	24.89	24.98	24.99	26
20	QPSK	50	24	24.77	24.90	24.85	24.96	24.97	
20	QPSK	50	50	24.71	24.90	24.82	24.87	24.97	
20	QPSK	100	0	24.71	24.89	24.86	24.94	24.97	
20	16QAM	1	0	24.82	25.07	25.13	25.12	25.16	26
20	16QAM	1	49	24.75	24.99	25.00	24.92	25.14	
20	16QAM	1	99	24.74	25.07	24.97	24.86	25.05	
20	16QAM	50	0	23.77	23.91	23.90	23.98	23.98	25
20	16QAM	50	24	23.72	23.90	23.87	23.92	23.98	
20	16QAM	50	50	23.68	23.91	23.83	23.85	23.97	
20	16QAM	100	0	23.70	23.88	23.85	23.90	23.97	
20	64QAM	1	0	23.67	23.83	23.94	23.95	23.98	25
20	64QAM	1	49	23.57	23.79	23.83	23.76	23.88	
20	64QAM	1	99	23.58	23.85	23.80	23.66	23.88	
20	64QAM	50	0	22.74	22.87	22.88	22.93	22.92	24
20	64QAM	50	24	22.68	22.84	22.83	22.85	22.91	
20	64QAM	50	50	22.66	22.86	22.79	22.82	22.94	
20	64QAM	100	0	22.68	22.85	22.82	22.84	22.93	
20	256QAM	1	0	20.74	20.80	20.78	20.94	20.88	22
20	256QAM	1	49	20.67	20.66	20.72	20.79	20.80	
20	256QAM	1	99	20.57	20.62	20.62	20.76	20.65	
20	256QAM	50	0	20.77	20.84	20.89	20.95	20.92	22
20	256QAM	50	24	20.74	20.75	20.81	20.90	20.90	
20	256QAM	50	50	20.70	20.80	20.79	20.94	20.83	
20	256QAM	100	0	20.67	20.75	20.76	20.86	20.81	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	25.44	25.58	25.78	25.65	25.69	27.00
15	QPSK	1	37	25.49	25.54	25.74	25.57	25.52	
15	QPSK	1	74	25.37	25.63	25.64	25.58	25.79	
15	QPSK	36	0	24.70	24.85	24.81	24.89	24.78	26
15	QPSK	36	20	24.71	24.79	24.72	24.91	24.96	
15	QPSK	36	39	24.66	24.79	24.76	24.71	24.93	
15	QPSK	75	0	24.63	24.70	24.71	24.74	24.87	26
15	16QAM	1	0	24.79	24.93	25.05	25.10	25.13	
15	16QAM	1	37	24.64	24.81	24.86	24.83	25.01	
15	16QAM	1	74	24.56	25.05	24.84	24.66	24.98	25
15	16QAM	36	0	23.72	23.71	23.73	23.96	23.93	
15	16QAM	36	20	23.67	23.89	23.67	23.80	23.90	
15	16QAM	36	39	23.55	23.79	23.77	23.82	23.80	
15	16QAM	75	0	23.60	23.71	23.85	23.83	23.93	25
15	64QAM	1	0	23.62	23.72	23.82	23.77	23.84	
15	64QAM	1	37	23.48	23.61	23.81	23.63	23.86	
15	64QAM	1	74	23.40	23.79	23.80	23.63	23.85	24
15	64QAM	36	0	22.55	22.75	22.71	22.92	22.77	
15	64QAM	36	20	22.52	22.82	22.63	22.83	22.77	
15	64QAM	36	39	22.64	22.68	22.59	22.78	22.90	
15	64QAM	75	0	22.53	22.67	22.73	22.80	22.82	22
15	256QAM	1	0	20.65	20.79	20.66	20.93	20.78	
15	256QAM	1	37	20.48	20.66	20.63	20.73	20.78	
15	256QAM	1	74	20.54	20.60	20.52	20.72	20.60	22
15	256QAM	36	0	20.72	20.77	20.82	20.78	20.88	
15	256QAM	36	20	20.68	20.69	20.81	20.74	20.81	
15	256QAM	36	39	20.62	20.63	20.77	20.88	20.65	



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15	256QAM	75	0	20.49	20.64	20.61	20.81	20.61	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	25.59	25.76	25.78	25.70	25.85	27.00
10	QPSK	1	25	25.51	25.69	25.73	25.62	25.43	
10	QPSK	1	49	25.36	25.62	25.59	25.53	25.81	
10	QPSK	25	0	24.82	24.80	24.83	24.97	24.84	26
10	QPSK	25	12	24.59	24.72	24.65	24.89	24.95	
10	QPSK	25	25	24.58	24.90	24.78	24.68	24.85	
10	QPSK	50	0	24.67	24.70	24.83	24.84	24.88	
10	16QAM	1	0	24.72	25.03	25.05	24.93	25.00	26
10	16QAM	1	25	24.60	24.92	24.99	24.82	25.02	
10	16QAM	1	49	24.59	25.03	24.97	24.81	24.99	
10	16QAM	25	0	23.61	23.84	23.77	23.97	23.85	25
10	16QAM	25	12	23.66	23.90	23.85	23.73	23.81	
10	16QAM	25	25	23.54	23.82	23.63	23.70	23.81	
10	16QAM	50	0	23.66	23.68	23.81	23.80	23.80	
10	64QAM	1	0	23.56	23.81	23.91	23.93	23.80	25
10	64QAM	1	25	23.48	23.70	23.73	23.76	23.80	
10	64QAM	1	49	23.49	23.82	23.75	23.66	23.73	
10	64QAM	25	0	22.71	22.68	22.73	22.76	22.82	24
10	64QAM	25	12	22.55	22.74	22.79	22.72	22.84	
10	64QAM	25	25	22.51	22.80	22.65	22.63	22.92	
10	64QAM	50	0	22.50	22.76	22.75	22.79	22.78	
10	256QAM	1	0	20.64	20.74	20.72	20.86	20.84	22
10	256QAM	1	25	20.61	20.46	20.53	20.71	20.63	
10	256QAM	1	49	20.56	20.47	20.55	20.65	20.53	
10	256QAM	25	0	20.68	20.81	20.71	20.82	20.83	22
10	256QAM	25	12	20.56	20.70	20.76	20.82	20.70	
10	256QAM	25	25	20.64	20.71	20.68	20.84	20.68	
10	256QAM	50	0	20.56	20.69	20.59	20.67	20.78	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	25.63	25.63	25.83	25.69	25.79	27.00
5	QPSK	1	12	25.36	25.69	25.56	25.56	25.55	
5	QPSK	1	24	25.52	25.68	25.61	25.48	25.74	
5	QPSK	12	0	24.64	24.93	24.74	24.92	24.92	26
5	QPSK	12	7	24.65	24.87	24.79	24.95	24.87	
5	QPSK	12	13	24.60	24.76	24.74	24.70	24.85	
5	QPSK	25	0	24.64	24.81	24.70	24.85	24.88	
5	16QAM	1	0	24.63	24.88	24.93	25.07	24.97	26
5	16QAM	1	12	24.60	24.93	24.90	24.86	25.00	
5	16QAM	1	24	24.62	24.97	24.88	24.81	25.01	
5	16QAM	12	0	23.68	23.86	23.85	23.94	23.79	25
5	16QAM	12	7	23.59	23.86	23.85	23.79	23.95	
5	16QAM	12	13	23.58	23.72	23.66	23.84	23.96	
5	16QAM	25	0	23.57	23.76	23.73	23.83	23.91	
5	64QAM	1	0	23.65	23.66	23.74	23.90	23.91	25
5	64QAM	1	12	23.46	23.59	23.77	23.74	23.73	
5	64QAM	1	24	23.38	23.85	23.78	23.48	23.85	
5	64QAM	12	0	22.71	22.73	22.77	22.91	22.92	24
5	64QAM	12	7	22.54	22.75	22.72	22.82	22.80	
5	64QAM	12	13	22.66	22.79	22.73	22.62	22.94	
5	64QAM	25	0	22.56	22.65	22.63	22.84	22.88	
5	256QAM	1	0	20.58	20.80	20.78	20.85	20.81	22
5	256QAM	1	12	20.50	20.58	20.65	20.76	20.60	
5	256QAM	1	24	20.53	20.50	20.53	20.63	20.47	
5	256QAM	12	0	20.61	20.80	20.72	20.77	20.87	22
5	256QAM	12	7	20.55	20.67	20.81	20.78	20.82	
5	256QAM	12	13	20.58	20.74	20.62	20.90	20.70	
5	256QAM	25	0	20.63	20.60	20.75	20.82	20.75	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.10	24.25	24.21	24.35	24.39	25
20	QPSK	1	49	24.10	24.24	24.18	24.33	24.38	
20	QPSK	1	99	24.02	24.16	24.05	24.30	24.34	
20	QPSK	50	0	23.11	23.23	23.20	23.33	23.45	24
20	QPSK	50	24	23.11	23.22	23.18	23.32	23.34	
20	QPSK	50	50	23.10	23.21	23.15	23.30	23.31	
20	QPSK	100	0	23.13	23.24	23.18	23.34	23.36	
20	16QAM	1	0	23.24	23.40	23.32	23.48	23.51	24
20	16QAM	1	49	23.24	23.40	23.29	23.44	23.51	
20	16QAM	1	99	23.14	23.27	23.16	23.30	23.39	
20	16QAM	50	0	22.14	22.27	22.22	22.36	22.39	23
20	16QAM	50	24	22.12	22.25	22.18	22.33	22.37	
20	16QAM	50	50	22.10	22.24	22.15	22.30	22.35	
20	16QAM	100	0	22.15	22.26	22.21	22.36	22.38	
20	64QAM	1	0	21.81	21.96	21.92	22.07	22.10	23
20	64QAM	1	49	21.79	21.90	21.87	22.03	22.07	
20	64QAM	1	99	21.76	21.89	21.80	21.96	22.00	
20	64QAM	50	0	21.20	21.33	21.26	21.44	21.48	22
20	64QAM	50	24	21.17	21.31	21.23	21.35	21.45	
20	64QAM	50	50	21.15	21.30	21.19	21.38	21.42	
20	64QAM	100	0	21.13	21.20	21.19	21.34	21.38	
20	256QAM	1	0	18.92	19.02	19.03	19.18	19.25	20
20	256QAM	1	49	18.79	18.97	19.00	19.10	19.16	
20	256QAM	1	99	18.67	18.78	18.86	18.99	19.00	
20	256QAM	50	0	19.17	19.28	19.36	19.43	19.50	20
20	256QAM	50	24	19.16	19.23	19.27	19.38	19.48	
20	256QAM	50	50	18.99	19.11	19.19	19.25	19.38	
20	256QAM	100	0	19.02	19.10	19.20	19.31	19.40	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	23.95	24.05	24.06	24.17	24.32	25.00
15	QPSK	1	37	24.07	24.11	24.08	24.20	24.33	
15	QPSK	1	74	23.87	23.98	23.93	24.15	24.30	
15	QPSK	36	0	23.10	23.13	23.03	23.19	23.37	24
15	QPSK	36	20	22.99	23.04	22.98	23.24	23.21	
15	QPSK	36	39	22.96	23.09	23.04	23.18	23.20	
15	QPSK	75	0	22.96	23.08	23.07	23.25	23.17	
15	16QAM	1	0	23.22	23.22	23.17	23.28	23.48	24
15	16QAM	1	37	23.05	23.22	23.20	23.32	23.45	
15	16QAM	1	74	23.09	23.20	23.14	23.13	23.34	
15	16QAM	36	0	22.03	22.09	22.12	22.33	22.26	23
15	16QAM	36	20	22.10	22.15	22.04	22.32	22.20	
15	16QAM	36	39	22.00	22.05	21.95	22.20	22.15	
15	16QAM	75	0	22.11	22.14	22.04	22.32	22.19	
15	64QAM	1	0	21.70	21.84	21.85	22.06	21.92	23
15	64QAM	1	37	21.67	21.79	21.74	22.02	21.95	
15	64QAM	1	74	21.57	21.82	21.80	21.76	21.99	
15	64QAM	36	0	21.07	21.20	21.26	21.32	21.37	22
15	64QAM	36	20	21.08	21.15	21.03	21.23	21.42	
15	64QAM	36	39	21.03	21.29	21.00	21.22	21.34	
15	64QAM	75	0	20.96	21.01	21.11	21.27	21.33	
15	256QAM	1	0	18.86	18.90	18.92	19.05	19.18	20
15	256QAM	1	37	18.62	18.82	18.81	19.07	19.11	
15	256QAM	1	74	18.60	18.71	18.82	18.97	18.92	
15	256QAM	36	0	18.99	19.19	19.26	19.37	19.31	20
15	256QAM	36	20	19.07	19.08	19.09	19.33	19.42	
15	256QAM	36	39	18.89	18.91	19.07	19.15	19.18	



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15	256QAM	75	0	18.83	18.90	19.16	19.28	19.25	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	23.95	24.11	24.10	24.28	24.27	25.00
10	QPSK	1	25	23.94	24.15	24.08	24.23	24.29	
10	QPSK	1	49	23.94	24.03	23.97	24.10	24.15	
10	QPSK	25	0	22.95	23.07	23.04	23.31	23.41	24
10	QPSK	25	12	22.92	23.14	23.03	23.12	23.33	
10	QPSK	25	25	23.05	23.01	22.99	23.20	23.30	
10	QPSK	50	0	23.02	23.14	23.09	23.20	23.29	
10	16QAM	1	0	23.13	23.30	23.17	23.32	23.47	24
10	16QAM	1	25	23.04	23.29	23.25	23.24	23.45	
10	16QAM	1	49	23.08	23.27	23.00	23.24	23.24	
10	16QAM	25	0	21.95	22.22	22.12	22.23	22.24	23
10	16QAM	25	12	22.12	22.17	22.12	22.27	22.17	
10	16QAM	25	25	21.98	22.10	22.14	22.11	22.26	
10	16QAM	50	0	21.95	22.06	22.01	22.18	22.25	
10	64QAM	1	0	21.68	21.82	21.82	21.87	21.94	23
10	64QAM	1	25	21.67	21.72	21.82	21.92	21.90	
10	64QAM	1	49	21.74	21.89	21.61	21.96	21.91	
10	64QAM	25	0	21.10	21.17	21.22	21.30	21.37	22
10	64QAM	25	12	21.09	21.14	21.20	21.21	21.40	
10	64QAM	25	25	21.00	21.30	21.06	21.34	21.32	
10	64QAM	50	0	21.07	21.19	21.00	21.28	21.22	
10	256QAM	1	0	18.78	18.84	18.88	19.17	19.08	20
10	256QAM	1	25	18.61	18.92	18.86	19.00	19.02	
10	256QAM	1	49	18.55	18.72	18.86	18.98	18.84	
10	256QAM	25	0	19.16	19.27	19.36	19.34	19.42	20
10	256QAM	25	12	19.16	19.03	19.13	19.20	19.42	
10	256QAM	25	25	18.79	18.96	19.14	19.16	19.21	
10	256QAM	50	0	18.98	18.94	19.14	19.30	19.33	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	24.09	24.05	24.18	24.16	24.20	25.00
5	QPSK	1	12	24.01	24.23	24.13	24.18	24.33	
5	QPSK	1	24	23.86	23.98	24.05	24.18	24.16	
5	QPSK	12	0	23.11	23.19	23.01	23.17	23.36	24
5	QPSK	12	7	22.91	23.14	23.03	23.22	23.27	
5	QPSK	12	13	23.07	23.05	22.99	23.22	23.19	
5	QPSK	25	0	23.11	23.07	23.02	23.22	23.25	
5	16QAM	1	0	23.12	23.34	23.23	23.31	23.49	24
5	16QAM	1	12	23.16	23.29	23.21	23.28	23.33	
5	16QAM	1	24	22.94	23.15	22.99	23.13	23.37	
5	16QAM	12	0	22.08	22.10	22.12	22.34	22.37	23
5	16QAM	12	7	21.96	22.10	22.00	22.22	22.24	
5	16QAM	12	13	21.99	22.23	22.07	22.20	22.16	
5	16QAM	25	0	22.13	22.11	22.16	22.22	22.25	
5	64QAM	1	0	21.75	21.86	21.75	21.87	21.92	23
5	64QAM	1	12	21.63	21.82	21.73	21.98	21.88	
5	64QAM	1	24	21.65	21.85	21.80	21.80	22.00	
5	64QAM	12	0	21.18	21.23	21.07	21.34	21.38	22
5	64QAM	12	7	21.04	21.21	21.06	21.34	21.30	
5	64QAM	12	13	21.05	21.21	21.19	21.32	21.38	
5	64QAM	25	0	21.05	21.13	21.08	21.34	21.28	
5	256QAM	1	0	18.79	18.93	18.84	19.18	19.21	20
5	256QAM	1	12	18.66	18.92	18.84	18.96	19.01	
5	256QAM	1	24	18.55	18.67	18.67	18.82	18.95	
5	256QAM	12	0	18.97	19.08	19.22	19.26	19.43	20
5	256QAM	12	7	19.07	19.18	19.19	19.26	19.29	
5	256QAM	12	13	18.80	19.01	19.19	19.06	19.19	
5	256QAM	25	0	18.90	19.01	19.07	19.25	19.22	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	19.21	19.01	19.10	19.39	19.47	19.8
20	QPSK	1	49	19.17	18.84	19.05	19.28	19.34	
20	QPSK	1	99	19.15	18.87	18.96	19.18	19.34	
20	QPSK	50	0	19.21	18.94	19.08	19.38	19.45	19.8
20	QPSK	50	24	19.19	18.92	19.04	19.36	19.39	
20	QPSK	50	50	19.14	18.91	18.99	19.32	19.35	
20	QPSK	100	0	19.16	18.93	19.04	19.34	19.39	
20	16QAM	1	0	19.31	19.15	19.21	19.30	19.40	19.8
20	16QAM	1	49	19.24	18.98	19.11	19.29	19.38	
20	16QAM	1	99	19.29	18.98	19.11	19.26	19.45	
20	16QAM	50	0	19.24	19.00	19.12	19.40	19.38	19.8
20	16QAM	50	24	19.21	18.99	19.09	19.39	19.43	
20	16QAM	50	50	19.17	18.97	19.05	19.35	19.40	
20	16QAM	100	0	19.19	18.99	19.09	19.37	19.43	
20	64QAM	1	0	18.93	18.73	18.85	19.09	19.20	19.8
20	64QAM	1	49	18.93	18.70	18.82	19.04	19.17	
20	64QAM	1	99	18.82	18.62	18.72	18.93	19.08	
20	64QAM	50	0	19.24	18.98	19.13	19.39	19.41	19.8
20	64QAM	50	24	19.22	18.95	19.08	19.35	19.45	
20	64QAM	50	50	19.18	18.94	19.04	19.35	19.40	
20	64QAM	100	0	19.20	18.99	19.07	19.35	19.44	
20	256QAM	1	0	18.90	18.78	18.81	19.25	19.19	19.8
20	256QAM	1	49	18.81	18.78	18.77	19.15	19.07	
20	256QAM	1	99	18.61	18.51	18.74	18.90	19.06	
20	256QAM	50	0	19.16	18.97	19.04	19.37	19.33	19.8
20	256QAM	50	24	19.04	18.91	19.00	19.32	19.35	
20	256QAM	50	50	18.90	18.82	18.92	19.24	19.37	
20	256QAM	100	0	19.02	18.79	19.07	19.19	19.31	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	19.11	18.93	19.00	19.22	19.29	19.80
15	QPSK	1	37	19.03	18.67	18.91	19.27	19.31	
15	QPSK	1	74	19.09	18.83	18.94	19.15	19.32	
15	QPSK	36	0	19.06	18.86	19.02	19.24	19.29	19.8
15	QPSK	36	20	19.08	18.75	18.93	19.35	19.28	
15	QPSK	36	39	18.94	18.90	18.94	19.30	19.28	
15	QPSK	75	0	19.09	18.77	19.04	19.28	19.22	
15	16QAM	1	0	19.20	19.14	19.21	19.23	19.23	19.8
15	16QAM	1	37	19.10	18.86	19.08	19.24	19.19	
15	16QAM	1	74	19.26	18.87	19.03	19.25	19.34	
15	16QAM	36	0	19.09	18.89	19.03	19.33	19.37	19.8
15	16QAM	36	20	19.08	18.84	19.09	19.34	19.30	
15	16QAM	36	39	18.97	18.84	19.03	19.16	19.38	
15	16QAM	75	0	19.19	18.98	19.02	19.27	19.26	
15	64QAM	1	0	18.83	18.69	18.71	19.06	19.12	19.8
15	64QAM	1	37	18.77	18.52	18.72	18.99	19.02	
15	64QAM	1	74	18.81	18.54	18.56	18.85	19.06	
15	64QAM	36	0	19.24	18.83	18.93	19.20	19.34	19.8
15	64QAM	36	20	19.13	18.76	18.90	19.26	19.27	
15	64QAM	36	39	18.98	18.91	18.93	19.15	19.24	
15	64QAM	75	0	19.18	18.87	18.90	19.23	19.27	
15	256QAM	1	0	18.77	18.60	18.63	19.07	19.08	19.8
15	256QAM	1	37	18.81	18.69	18.68	19.12	18.96	
15	256QAM	1	74	18.41	18.49	18.55	18.90	18.94	
15	256QAM	36	0	19.11	18.91	18.93	19.30	19.13	19.8
15	256QAM	36	20	18.95	18.89	18.81	19.21	19.23	
15	256QAM	36	39	18.73	18.75	18.87	19.17	19.26	



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15	256QAM	75	0	18.98	18.63	19.06	19.11	19.25	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	19.16	19.00	19.02	19.37	19.43	19.80
10	QPSK	1	25	19.06	18.78	19.05	19.09	19.31	
10	QPSK	1	49	19.02	18.78	18.83	18.99	19.24	
10	QPSK	25	0	19.01	18.93	18.94	19.24	19.31	19.8
10	QPSK	25	12	19.09	18.75	18.98	19.26	19.25	
10	QPSK	25	25	19.11	18.78	18.88	19.24	19.18	
10	QPSK	50	0	19.00	18.79	19.03	19.21	19.19	
10	16QAM	1	0	19.26	19.14	19.02	19.17	19.26	19.8
10	16QAM	1	25	19.13	18.94	19.02	19.25	19.35	
10	16QAM	1	49	19.12	18.89	19.06	19.18	19.45	
10	16QAM	25	0	19.19	18.92	19.07	19.39	19.26	19.8
10	16QAM	25	12	19.18	18.91	18.96	19.33	19.43	
10	16QAM	25	25	19.08	18.90	18.87	19.21	19.21	
10	16QAM	50	0	19.17	18.95	18.99	19.35	19.27	
10	64QAM	1	0	18.84	18.72	18.66	19.01	19.14	19.8
10	64QAM	1	25	18.90	18.59	18.78	18.90	19.11	
10	64QAM	1	49	18.76	18.49	18.60	18.82	19.04	
10	64QAM	25	0	19.08	18.87	18.93	19.22	19.41	19.8
10	64QAM	25	12	19.21	18.85	19.01	19.16	19.36	
10	64QAM	25	25	19.17	18.87	18.90	19.25	19.23	
10	64QAM	50	0	19.05	18.82	18.96	19.17	19.28	
10	256QAM	1	0	18.70	18.75	18.68	19.24	19.07	19.8
10	256QAM	1	25	18.67	18.64	18.72	18.97	19.05	
10	256QAM	1	49	18.53	18.34	18.65	18.89	18.91	
10	256QAM	25	0	19.08	18.88	18.90	19.22	19.21	19.8
10	256QAM	25	12	19.04	18.91	18.94	19.23	19.31	
10	256QAM	25	25	18.74	18.64	18.72	19.04	19.34	
10	256QAM	50	0	18.86	18.70	18.94	19.16	19.18	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	19.14	18.93	19.10	19.37	19.45	19.80
5	QPSK	1	12	19.13	18.64	18.93	19.13	19.27	
5	QPSK	1	24	18.99	18.70	18.79	19.14	19.24	
5	QPSK	12	0	19.18	18.82	18.94	19.20	19.41	19.8
5	QPSK	12	7	19.10	18.87	18.97	19.18	19.27	
5	QPSK	12	13	18.99	18.80	18.96	19.26	19.30	
5	QPSK	25	0	19.11	18.73	19.00	19.33	19.36	
5	16QAM	1	0	19.15	19.09	19.08	19.28	19.24	19.8
5	16QAM	1	12	19.15	18.84	18.98	19.11	19.28	
5	16QAM	1	24	19.26	18.89	19.06	19.16	19.36	
5	16QAM	12	0	19.06	18.99	18.95	19.37	19.33	19.8
5	16QAM	12	7	19.01	18.80	19.00	19.29	19.43	
5	16QAM	12	13	19.12	18.91	18.95	19.20	19.31	
5	16QAM	25	0	19.01	18.89	18.96	19.19	19.29	
5	64QAM	1	0	18.93	18.69	18.84	19.06	19.01	19.8
5	64QAM	1	12	18.90	18.67	18.76	18.85	19.10	
5	64QAM	1	24	18.63	18.61	18.55	18.84	19.03	
5	64QAM	12	0	19.07	18.89	19.02	19.36	19.26	19.8
5	64QAM	12	7	19.15	18.80	19.00	19.21	19.25	
5	64QAM	12	13	19.13	18.79	18.90	19.25	19.20	
5	64QAM	25	0	19.12	18.99	19.06	19.32	19.33	
5	256QAM	1	0	18.81	18.77	18.73	19.16	19.05	19.8
5	256QAM	1	12	18.73	18.68	18.60	19.04	19.02	
5	256QAM	1	24	18.56	18.51	18.71	18.88	18.98	
5	256QAM	12	0	19.13	18.79	18.90	19.23	19.23	19.8
5	256QAM	12	7	18.95	18.73	18.92	19.24	19.26	
5	256QAM	12	13	18.74	18.72	18.81	19.12	19.18	
5	256QAM	25	0	18.91	18.67	18.99	19.18	19.12	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.09	24.22	24.24	24.25	24.55	25
20	QPSK	1	49	23.94	24.31	24.21	23.98	24.54	
20	QPSK	1	99	23.93	24.25	24.03	23.97	24.44	
20	QPSK	50	0	23.08	23.19	23.19	23.18	23.50	24
20	QPSK	50	24	23.03	23.18	23.14	23.10	23.42	
20	QPSK	50	50	23.00	23.18	23.08	23.07	23.44	
20	QPSK	100	0	23.02	23.14	23.18	23.08	23.43	
20	16QAM	1	0	23.13	23.21	23.34	23.25	23.49	24
20	16QAM	1	49	23.01	23.18	23.21	23.08	23.42	
20	16QAM	1	99	23.00	23.25	23.11	23.03	23.43	
20	16QAM	50	0	22.09	22.18	22.24	22.15	22.43	23
20	16QAM	50	24	22.05	22.20	22.20	22.10	22.43	
20	16QAM	50	50	22.02	22.21	22.14	22.06	22.42	
20	16QAM	100	0	22.03	22.17	22.19	22.09	22.42	
20	64QAM	1	0	21.73	21.91	21.89	21.89	22.18	23
20	64QAM	1	49	21.74	21.82	21.83	21.82	22.13	
20	64QAM	1	99	21.70	21.92	21.65	21.74	22.05	
20	64QAM	50	0	21.07	21.21	21.18	21.11	21.48	22
20	64QAM	50	24	21.03	21.24	21.12	21.12	21.38	
20	64QAM	50	50	21.01	21.23	21.06	21.08	21.45	
20	64QAM	100	0	21.05	21.22	21.11	21.11	21.48	
20	256QAM	1	0	18.86	18.90	19.04	18.95	19.26	20
20	256QAM	1	49	18.66	18.72	18.86	18.68	19.05	
20	256QAM	1	99	18.53	18.59	18.75	18.61	18.96	
20	256QAM	50	0	18.94	19.01	19.16	19.06	19.28	20
20	256QAM	50	24	18.90	18.99	19.13	18.99	19.35	
20	256QAM	50	50	18.86	18.85	19.06	18.96	19.20	
20	256QAM	100	0	18.86	18.86	19.05	18.90	19.24	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	23.96	24.11	24.23	24.24	24.51	25.00
15	QPSK	1	37	23.79	24.15	24.02	23.97	24.35	
15	QPSK	1	74	23.83	24.05	23.98	23.78	24.38	
15	QPSK	36	0	22.99	23.02	23.11	23.04	23.36	24
15	QPSK	36	20	22.89	23.02	23.13	22.98	23.27	
15	QPSK	36	39	22.82	23.11	22.89	23.07	23.38	
15	QPSK	75	0	22.88	23.09	23.14	23.06	23.32	
15	16QAM	1	0	22.93	23.14	23.33	23.16	23.45	24
15	16QAM	1	37	22.98	23.01	23.07	23.01	23.22	
15	16QAM	1	74	22.92	23.11	22.98	22.99	23.25	
15	16QAM	36	0	22.06	22.02	22.08	22.15	22.41	23
15	16QAM	36	20	21.99	22.20	22.15	22.06	22.43	
15	16QAM	36	39	21.84	22.10	22.00	21.93	22.22	
15	16QAM	75	0	21.91	22.09	22.10	22.03	22.28	
15	64QAM	1	0	21.73	21.86	21.87	21.76	22.07	23
15	64QAM	1	37	21.56	21.72	21.67	21.71	22.03	
15	64QAM	1	74	21.59	21.85	21.48	21.57	21.95	
15	64QAM	36	0	20.97	21.14	21.06	21.01	21.42	22
15	64QAM	36	20	21.00	21.23	21.04	21.08	21.24	
15	64QAM	36	39	20.84	21.09	20.90	21.08	21.27	
15	64QAM	75	0	20.88	21.05	21.07	21.09	21.30	
15	256QAM	1	0	18.75	18.85	18.87	18.86	19.14	20
15	256QAM	1	37	18.49	18.54	18.70	18.66	19.00	
15	256QAM	1	74	18.34	18.45	18.60	18.55	18.85	
15	256QAM	36	0	18.74	19.01	18.96	19.00	19.16	20
15	256QAM	36	20	18.73	18.83	19.13	18.98	19.25	
15	256QAM	36	39	18.77	18.67	19.06	18.80	19.03	



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15	256QAM	75	0	18.78	18.72	18.92	18.71	19.23	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	23.92	24.13	24.18	24.11	24.52	25.00
10	QPSK	1	25	23.90	24.27	24.16	23.90	24.41	
10	QPSK	1	49	23.82	24.24	23.90	23.93	24.24	
10	QPSK	25	0	23.07	23.13	23.03	23.18	23.36	24
10	QPSK	25	12	22.94	23.09	23.04	23.06	23.40	
10	QPSK	25	25	22.90	23.00	23.03	22.91	23.30	
10	QPSK	50	0	23.01	23.01	23.15	23.06	23.25	24
10	16QAM	1	0	23.02	23.02	23.27	23.18	23.48	
10	16QAM	1	25	22.99	23.12	23.13	22.92	23.29	
10	16QAM	1	49	22.98	23.14	23.05	22.86	23.32	23
10	16QAM	25	0	21.93	22.01	22.05	21.97	22.26	
10	16QAM	25	12	21.94	22.08	22.11	22.06	22.27	
10	16QAM	25	25	21.83	22.10	22.07	22.02	22.28	23
10	16QAM	50	0	22.00	22.07	22.19	22.00	22.29	
10	64QAM	1	0	21.57	21.79	21.73	21.73	22.13	
10	64QAM	1	25	21.68	21.74	21.83	21.73	21.97	23
10	64QAM	1	49	21.68	21.92	21.55	21.63	21.98	
10	64QAM	25	0	20.88	21.05	21.08	21.06	21.39	
10	64QAM	25	12	20.86	21.17	20.93	20.97	21.20	22
10	64QAM	25	25	20.89	21.05	20.97	20.98	21.25	
10	64QAM	50	0	20.94	21.13	21.05	20.96	21.40	
10	256QAM	1	0	18.76	18.76	19.00	18.87	19.10	20
10	256QAM	1	25	18.50	18.62	18.84	18.50	18.85	
10	256QAM	1	49	18.51	18.49	18.59	18.47	18.80	
10	256QAM	25	0	18.94	18.95	19.05	18.98	19.27	20
10	256QAM	25	12	18.86	18.92	18.99	18.96	19.23	
10	256QAM	25	25	18.84	18.78	19.03	18.92	19.06	
10	256QAM	50	0	18.72	18.78	18.98	18.88	19.08	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	24.05	24.11	24.14	24.21	24.39	25.00
5	QPSK	1	12	23.91	24.13	24.18	23.80	24.46	
5	QPSK	1	24	23.92	24.16	23.85	23.96	24.35	
5	QPSK	12	0	22.91	23.15	23.10	23.08	23.42	24
5	QPSK	12	7	22.94	23.14	23.14	23.09	23.40	
5	QPSK	12	13	22.84	23.17	22.89	23.00	23.33	
5	QPSK	25	0	22.97	23.06	23.08	22.99	23.29	24
5	16QAM	1	0	23.04	23.21	23.34	23.21	23.35	
5	16QAM	1	12	22.96	22.99	23.04	23.02	23.29	
5	16QAM	1	24	22.92	23.21	22.96	22.88	23.27	23
5	16QAM	12	0	21.94	22.14	22.24	22.09	22.32	
5	16QAM	12	7	22.03	22.01	22.15	21.99	22.35	
5	16QAM	12	13	21.97	22.17	22.07	21.97	22.36	23
5	16QAM	25	0	21.91	22.15	22.06	21.89	22.40	
5	64QAM	1	0	21.73	21.83	21.83	21.81	22.16	
5	64QAM	1	12	21.69	21.66	21.83	21.69	22.02	23
5	64QAM	1	24	21.70	21.78	21.58	21.55	21.98	
5	64QAM	12	0	20.95	21.19	21.15	21.10	21.31	
5	64QAM	12	7	20.83	21.05	21.11	21.11	21.23	22
5	64QAM	12	13	20.86	21.03	20.93	20.96	21.31	
5	64QAM	25	0	21.00	21.17	21.03	20.93	21.45	
5	256QAM	1	0	18.69	18.90	18.92	18.76	19.19	20
5	256QAM	1	12	18.54	18.60	18.75	18.58	18.96	
5	256QAM	1	24	18.48	18.58	18.71	18.46	18.95	
5	256QAM	12	0	18.92	18.92	19.03	18.92	19.14	20
5	256QAM	12	7	18.86	18.81	18.93	18.99	19.27	
5	256QAM	12	13	18.69	18.68	18.87	18.92	19.00	
5	256QAM	25	0	18.67	18.70	18.86	18.90	19.05	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	25
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.83	24.00	23.92	24.09	24.16	25
20	QPSK	1	49	23.82	24.05	23.92	24.02	24.09	
20	QPSK	1	99	23.74	23.97	23.81	23.90	24.04	
20	QPSK	50	0	22.82	22.95	22.90	23.01	23.09	24
20	QPSK	50	24	22.80	22.96	22.87	23.00	23.09	
20	QPSK	50	50	22.76	22.92	22.82	22.93	23.08	
20	QPSK	100	0	22.80	22.86	22.88	22.90	23.00	24
20	16QAM	1	0	22.85	23.02	23.04	23.13	23.12	
20	16QAM	1	49	22.70	22.92	22.88	22.93	22.96	
20	16QAM	1	99	22.70	22.98	22.90	22.84	23.00	23
20	16QAM	50	0	21.81	21.93	21.94	21.99	22.00	
20	16QAM	50	24	21.77	21.93	21.92	21.93	21.98	
20	16QAM	50	50	21.73	21.93	21.87	21.87	21.99	23
20	16QAM	100	0	21.76	21.92	21.91	21.92	21.98	
20	64QAM	1	0	21.51	21.69	21.59	21.74	21.79	
20	64QAM	1	49	21.47	21.71	21.53	21.66	21.74	22
20	64QAM	1	99	21.41	21.61	21.45	21.52	21.68	
20	64QAM	50	0	20.81	20.97	20.88	21.02	21.05	
20	64QAM	50	24	20.78	20.95	20.83	20.95	21.03	20
20	64QAM	50	50	20.75	20.93	20.83	20.91	21.00	
20	64QAM	100	0	20.80	20.95	20.83	20.95	21.03	
20	256QAM	1	0	18.67	18.80	18.69	18.87	18.83	20
20	256QAM	1	49	18.49	18.70	18.60	18.75	18.73	
20	256QAM	1	99	18.47	18.61	18.55	18.69	18.64	
20	256QAM	50	0	18.83	18.89	18.88	19.05	19.00	20
20	256QAM	50	24	18.76	18.97	18.86	19.04	18.93	
20	256QAM	50	50	18.78	18.96	18.85	19.03	18.93	
20	256QAM	100	0	18.74	18.89	18.84	19.00	18.91	Tune-up limit (dBm)
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	25.00
15	QPSK	1	0	23.75	23.93	23.78	23.89	24.00	
15	QPSK	1	37	23.66	23.85	23.89	24.00	24.03	24
15	QPSK	1	74	23.56	23.87	23.73	23.82	24.01	
15	QPSK	36	0	22.78	22.88	22.76	22.83	23.03	
15	QPSK	36	20	22.69	22.80	22.75	22.90	23.08	24
15	QPSK	36	39	22.61	22.90	22.70	22.92	22.88	
15	QPSK	75	0	22.73	22.85	22.86	22.89	22.90	
15	16QAM	1	0	22.65	22.93	22.94	23.02	22.93	24
15	16QAM	1	37	22.65	22.82	22.78	22.91	22.77	
15	16QAM	1	74	22.58	22.87	22.85	22.75	23.00	
15	16QAM	36	0	21.73	21.79	21.92	21.92	21.90	23
15	16QAM	36	20	21.70	21.77	21.81	21.73	21.78	
15	16QAM	36	39	21.60	21.92	21.67	21.79	21.88	
15	16QAM	75	0	21.71	21.90	21.77	21.79	21.78	23
15	64QAM	1	0	21.33	21.56	21.54	21.69	21.62	
15	64QAM	1	37	21.28	21.59	21.43	21.61	21.57	
15	64QAM	1	74	21.32	21.56	21.36	21.39	21.63	22
15	64QAM	36	0	20.74	20.80	20.71	20.98	21.04	
15	64QAM	36	20	20.76	20.91	20.76	20.81	20.90	
15	64QAM	36	39	20.65	20.75	20.82	20.82	20.94	20
15	64QAM	75	0	20.70	20.77	20.74	20.87	20.87	
15	256QAM	1	0	18.59	18.66	18.50	18.72	18.82	
15	256QAM	1	37	18.44	18.67	18.59	18.75	18.54	20
15	256QAM	1	74	18.40	18.56	18.51	18.62	18.63	
15	256QAM	36	0	18.81	18.86	18.88	18.97	19.00	
15	256QAM	36	20	18.62	18.88	18.77	18.91	18.90	20
15	256QAM	36	39	18.64	18.83	18.70	18.87	18.81	



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15	256QAM	75	0	18.73	18.87	18.65	18.86	18.88	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	23.70	24.00	23.91	23.91	23.99	25.00
10	QPSK	1	25	23.63	23.99	23.81	23.82	23.97	
10	QPSK	1	49	23.61	23.87	23.81	23.76	23.97	
10	QPSK	25	0	22.72	22.80	22.73	22.88	22.96	24
10	QPSK	25	12	22.64	22.80	22.71	22.98	23.06	
10	QPSK	25	25	22.68	22.84	22.73	22.76	23.02	
10	QPSK	50	0	22.76	22.73	22.81	22.83	22.89	
10	16QAM	1	0	22.84	22.88	22.86	23.00	22.99	24
10	16QAM	1	25	22.66	22.79	22.72	22.84	22.83	
10	16QAM	1	49	22.62	22.86	22.84	22.80	22.87	
10	16QAM	25	0	21.73	21.82	21.75	21.93	21.97	23
10	16QAM	25	12	21.75	21.88	21.73	21.84	21.92	
10	16QAM	25	25	21.54	21.73	21.72	21.74	21.86	
10	16QAM	50	0	21.57	21.87	21.77	21.91	21.88	
10	64QAM	1	0	21.35	21.58	21.43	21.59	21.67	23
10	64QAM	1	25	21.44	21.69	21.45	21.63	21.71	
10	64QAM	1	49	21.26	21.59	21.25	21.46	21.55	
10	64QAM	25	0	20.68	20.92	20.69	20.85	20.90	22
10	64QAM	25	12	20.78	20.82	20.80	20.80	20.87	
10	64QAM	25	25	20.55	20.80	20.76	20.80	20.98	
10	64QAM	50	0	20.72	20.92	20.66	20.94	20.89	
10	256QAM	1	0	18.63	18.75	18.53	18.84	18.81	20
10	256QAM	1	25	18.29	18.61	18.56	18.60	18.64	
10	256QAM	1	49	18.40	18.54	18.44	18.57	18.44	
10	256QAM	25	0	18.69	18.76	18.84	18.93	18.90	20
10	256QAM	25	12	18.62	18.95	18.69	18.95	18.75	
10	256QAM	25	25	18.66	18.89	18.79	19.00	18.74	
10	256QAM	50	0	18.57	18.85	18.80	18.98	18.78	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	23.76	23.92	23.84	23.94	24.09	25.00
5	QPSK	1	12	23.69	23.88	23.79	23.97	23.98	
5	QPSK	1	24	23.61	23.86	23.79	23.72	23.87	
5	QPSK	12	0	22.63	22.83	22.88	22.97	22.98	24
5	QPSK	12	7	22.77	22.91	22.86	22.87	23.02	
5	QPSK	12	13	22.75	22.86	22.82	22.78	23.07	
5	QPSK	25	0	22.60	22.76	22.86	22.88	22.85	
5	16QAM	1	0	22.83	22.97	22.95	22.94	22.96	24
5	16QAM	1	12	22.59	22.91	22.70	22.93	22.85	
5	16QAM	1	24	22.56	22.93	22.79	22.77	22.90	
5	16QAM	12	0	21.65	21.78	21.79	21.79	21.94	23
5	16QAM	12	7	21.74	21.78	21.85	21.86	21.94	
5	16QAM	12	13	21.66	21.83	21.82	21.86	21.91	
5	16QAM	25	0	21.63	21.85	21.81	21.74	21.97	
5	64QAM	1	0	21.50	21.56	21.59	21.62	21.71	23
5	64QAM	1	12	21.33	21.61	21.35	21.47	21.61	
5	64QAM	1	24	21.30	21.57	21.37	21.42	21.61	
5	64QAM	12	0	20.62	20.96	20.77	20.85	21.00	22
5	64QAM	12	7	20.74	20.84	20.79	20.89	20.90	
5	64QAM	12	13	20.67	20.92	20.75	20.72	20.94	
5	64QAM	25	0	20.77	20.91	20.69	20.86	20.89	
5	256QAM	1	0	18.47	18.65	18.59	18.68	18.74	20
5	256QAM	1	12	18.40	18.53	18.47	18.64	18.72	
5	256QAM	1	24	18.47	18.42	18.45	18.64	18.47	
5	256QAM	12	0	18.79	18.81	18.83	19.05	18.98	20
5	256QAM	12	7	18.64	18.83	18.81	18.96	18.74	
5	256QAM	12	13	18.69	18.89	18.82	18.90	18.90	
5	256QAM	25	0	18.71	18.77	18.67	18.97	18.85	



<LTE Band 41_HPUE_Ant 2_Index 7>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.75	25.97	25.99	26.10	26.11	27
20	QPSK	1	49	25.72	25.88	25.86	25.96	25.98	
20	QPSK	1	99	25.81	25.91	25.87	25.96	25.95	
20	QPSK	50	0	25.10	25.17	25.10	25.27	25.32	26
20	QPSK	50	24	25.08	25.17	25.03	25.23	25.26	
20	QPSK	50	50	25.05	25.15	24.98	25.21	25.18	
20	QPSK	100	0	25.07	25.15	25.02	25.25	25.26	
20	16QAM	1	0	25.08	25.34	25.35	25.46	25.43	26
20	16QAM	1	49	25.04	25.22	25.20	25.28	25.34	
20	16QAM	1	99	25.15	25.28	25.23	25.25	25.31	
20	16QAM	50	0	24.06	24.19	24.12	24.28	24.32	25
20	16QAM	50	24	24.05	24.17	24.07	24.24	24.28	
20	16QAM	50	50	24.05	24.15	24.03	24.20	24.23	
20	16QAM	100	0	24.04	24.14	24.04	24.24	24.25	
20	64QAM	1	0	23.95	24.17	24.10	24.26	24.25	25
20	64QAM	1	49	23.88	24.05	23.99	24.08	24.18	
20	64QAM	1	99	23.93	24.05	23.96	24.04	24.11	
20	64QAM	50	0	22.98	23.11	23.05	23.17	23.23	24
20	64QAM	50	24	22.97	23.09	22.99	23.13	23.19	
20	64QAM	50	50	22.94	23.08	22.96	23.14	23.15	
20	64QAM	100	0	22.96	23.09	22.99	23.16	23.18	
20	256QAM	1	0	21.05	21.18	21.10	21.28	21.32	22
20	256QAM	1	49	20.90	20.96	20.95	21.12	21.14	
20	256QAM	1	99	20.83	20.89	20.90	21.00	21.11	
20	256QAM	50	0	21.03	21.24	21.16	21.30	21.30	22
20	256QAM	50	24	20.96	21.13	21.10	21.21	21.27	
20	256QAM	50	50	20.95	21.09	21.01	21.09	21.21	
20	256QAM	100	0	20.94	21.13	21.05	21.14	21.19	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	25.66	25.82	25.91	26.08	25.99	27.00
15	QPSK	1	37	25.53	25.69	25.77	25.85	25.86	
15	QPSK	1	74	25.71	25.75	25.74	25.96	25.93	
15	QPSK	36	0	24.96	25.07	25.00	25.22	25.26	26
15	QPSK	36	20	24.91	25.12	24.99	25.05	25.08	
15	QPSK	36	39	24.91	25.15	24.97	25.15	25.13	
15	QPSK	75	0	24.92	25.15	24.96	25.25	25.11	26
15	16QAM	1	0	24.97	25.27	25.30	25.32	25.31	
15	16QAM	1	37	24.90	25.09	25.11	25.16	25.23	
15	16QAM	1	74	24.96	25.28	25.23	25.18	25.14	25
15	16QAM	36	0	23.94	24.17	24.03	24.18	24.16	
15	16QAM	36	20	23.93	23.97	23.90	24.13	24.16	
15	16QAM	36	39	23.88	24.07	23.91	24.20	24.23	
15	16QAM	75	0	24.01	24.05	23.86	24.21	24.18	25
15	64QAM	1	0	23.93	24.09	23.98	24.09	24.14	
15	64QAM	1	37	23.72	23.85	23.89	23.95	24.11	
15	64QAM	1	74	23.93	23.96	23.84	23.94	24.08	24
15	64QAM	36	0	22.93	23.08	22.91	23.01	23.12	
15	64QAM	36	20	22.79	23.02	22.88	23.09	23.17	
15	64QAM	36	39	22.90	22.99	22.86	22.94	23.00	
15	64QAM	75	0	22.85	23.01	22.98	23.04	23.11	22
15	256QAM	1	0	20.98	21.03	21.10	21.23	21.14	
15	256QAM	1	37	20.75	20.87	20.94	21.06	20.99	
15	256QAM	1	74	20.70	20.88	20.87	20.92	21.02	22
15	256QAM	36	0	20.87	21.13	21.14	21.18	21.16	
15	256QAM	36	20	20.93	20.96	20.99	21.20	21.19	
15	256QAM	36	39	20.79	21.01	21.01	20.97	21.08	



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15	256QAM	75	0	20.89	21.09	20.89	21.08	21.16	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	25.56	25.82	25.98	25.96	25.97	27.00
10	QPSK	1	25	25.52	25.68	25.76	25.87	25.84	
10	QPSK	1	49	25.74	25.73	25.81	25.82	25.88	
10	QPSK	25	0	25.08	25.10	24.98	25.11	25.30	26
10	QPSK	25	12	25.05	25.00	25.00	25.16	25.24	
10	QPSK	25	25	24.92	24.95	24.90	25.04	25.01	
10	QPSK	50	0	25.02	25.15	24.91	25.25	25.23	
10	16QAM	1	0	24.99	25.26	25.28	25.29	25.43	26
10	16QAM	1	25	24.88	25.21	25.03	25.22	25.26	
10	16QAM	1	49	25.11	25.20	25.09	25.23	25.26	
10	16QAM	25	0	23.87	24.16	23.96	24.18	24.25	25
10	16QAM	25	12	24.05	24.02	23.93	24.12	24.20	
10	16QAM	25	25	23.91	23.95	23.84	24.07	24.19	
10	16QAM	50	0	23.97	24.05	23.89	24.04	24.14	
10	64QAM	1	0	23.95	24.10	24.00	24.17	24.24	25
10	64QAM	1	25	23.86	24.04	23.97	24.01	24.10	
10	64QAM	1	49	23.80	23.91	23.94	23.99	23.97	
10	64QAM	25	0	22.81	22.94	23.04	23.01	23.05	24
10	64QAM	25	12	22.96	23.01	22.81	22.97	23.13	
10	64QAM	25	25	22.85	22.90	22.93	22.98	23.12	
10	64QAM	50	0	22.92	22.90	22.98	23.00	23.18	
10	256QAM	1	0	20.87	21.18	20.97	21.23	21.24	22
10	256QAM	1	25	20.73	20.81	20.85	21.09	20.95	
10	256QAM	1	49	20.77	20.80	20.72	20.85	20.96	
10	256QAM	25	0	20.91	21.16	21.05	21.18	21.29	22
10	256QAM	25	12	20.80	20.97	21.06	21.20	21.21	
10	256QAM	25	25	20.90	21.08	20.91	21.04	21.13	
10	256QAM	50	0	20.82	21.02	21.00	21.14	21.06	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	25.68	25.78	25.81	25.95	25.91	27.00
5	QPSK	1	12	25.59	25.84	25.81	25.83	25.87	
5	QPSK	1	24	25.80	25.86	25.81	25.89	25.90	
5	QPSK	12	0	25.02	25.03	25.05	25.16	25.21	26
5	QPSK	12	7	24.90	24.99	24.91	25.22	25.12	
5	QPSK	12	13	25.03	24.99	24.86	25.11	25.15	
5	QPSK	25	0	24.97	25.11	25.02	25.16	25.07	
5	16QAM	1	0	24.90	25.24	25.23	25.28	25.25	26
5	16QAM	1	12	24.88	25.21	25.13	25.20	25.18	
5	16QAM	1	24	25.06	25.08	25.04	25.12	25.27	
5	16QAM	12	0	24.05	24.10	23.97	24.16	24.13	25
5	16QAM	12	7	23.91	24.01	23.95	24.24	24.23	
5	16QAM	12	13	23.99	23.96	23.91	24.01	24.10	
5	16QAM	25	0	23.98	24.01	23.84	24.11	24.11	
5	64QAM	1	0	23.78	24.17	24.08	24.08	24.09	25
5	64QAM	1	12	23.82	23.96	23.91	24.01	24.01	
5	64QAM	1	24	23.81	23.85	23.94	23.90	24.09	
5	64QAM	12	0	22.80	22.91	22.96	23.12	23.14	24
5	64QAM	12	7	22.93	23.01	22.92	22.93	23.07	
5	64QAM	12	13	22.82	22.94	22.78	23.00	23.11	
5	64QAM	25	0	22.85	22.96	22.79	23.07	23.07	
5	256QAM	1	0	20.85	21.06	20.98	21.10	21.20	22
5	256QAM	1	12	20.70	20.80	20.90	21.06	20.99	
5	256QAM	1	24	20.78	20.85	20.73	20.93	20.91	
5	256QAM	12	0	21.00	21.19	21.10	21.12	21.10	22
5	256QAM	12	7	20.89	21.03	21.00	21.06	21.25	
5	256QAM	12	13	20.93	20.90	20.84	21.02	21.06	
5	256QAM	25	0	20.82	20.94	20.95	21.13	21.10	

**<LTE Band 41_HPUE_Ant 1_Index 7>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	20.65	20.46	20.57	20.80	20.95	21.5
20	QPSK	1	49	20.62	20.34	20.47	20.69	20.85	
20	QPSK	1	99	20.60	20.34	20.43	20.66	20.84	
20	QPSK	50	0	20.72	20.51	20.62	20.87	20.90	21.5
20	QPSK	50	24	20.68	20.46	20.57	20.83	20.89	
20	QPSK	50	50	20.66	20.44	20.54	20.81	20.86	
20	QPSK	100	0	20.70	20.43	20.59	20.83	20.91	
20	16QAM	1	0	20.84	20.83	20.93	20.82	20.84	21.5
20	16QAM	1	49	20.86	20.73	20.84	20.70	20.73	
20	16QAM	1	99	20.93	20.73	20.79	20.72	20.77	
20	16QAM	50	0	20.76	20.55	20.65	20.93	20.82	21.5
20	16QAM	50	24	20.76	20.53	20.63	20.89	20.87	
20	16QAM	50	50	20.70	20.52	20.61	20.87	20.94	
20	16QAM	100	0	20.73	20.50	20.63	20.89	20.86	
20	64QAM	1	0	20.73	20.56	20.64	20.92	20.80	21.5
20	64QAM	1	49	20.74	20.45	20.59	20.82	20.93	
20	64QAM	1	99	20.69	20.44	20.51	20.72	20.89	
20	64QAM	50	0	20.73	20.50	20.63	20.90	20.79	21.5
20	64QAM	50	24	20.72	20.49	20.59	20.86	20.91	
20	64QAM	50	50	20.71	20.47	20.57	20.82	20.91	
20	64QAM	100	0	20.70	20.48	20.59	20.86	20.93	
20	256QAM	1	0	20.59	20.35	20.38	20.78	20.91	21.5
20	256QAM	1	49	20.47	20.29	20.47	20.80	20.80	
20	256QAM	1	99	20.61	20.39	20.53	20.70	20.78	
20	256QAM	50	0	20.61	20.44	20.46	20.70	20.77	21.5
20	256QAM	50	24	20.62	20.45	20.50	20.64	20.86	
20	256QAM	50	50	20.62	20.34	20.50	20.74	20.87	
20	256QAM	100	0	20.53	20.26	20.47	20.63	20.80	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	20.61	20.45	20.46	20.76	20.86	21.50
15	QPSK	1	37	20.62	20.31	20.29	20.66	20.74	
15	QPSK	1	74	20.44	20.32	20.33	20.54	20.80	
15	QPSK	36	0	20.71	20.46	20.48	20.75	20.79	21.5
15	QPSK	36	20	20.63	20.26	20.52	20.71	20.86	
15	QPSK	36	39	20.59	20.25	20.42	20.65	20.81	
15	QPSK	75	0	20.57	20.39	20.42	20.72	20.80	
15	16QAM	1	0	20.73	20.81	20.93	20.63	20.84	21.5
15	16QAM	1	37	20.75	20.62	20.72	20.70	20.71	
15	16QAM	1	74	20.88	20.63	20.75	20.72	20.68	
15	16QAM	36	0	20.76	20.47	20.58	20.79	20.73	21.5
15	16QAM	36	20	20.73	20.34	20.62	20.72	20.77	
15	16QAM	36	39	20.63	20.43	20.49	20.87	20.83	
15	16QAM	75	0	20.56	20.40	20.45	20.73	20.66	
15	64QAM	1	0	20.60	20.54	20.44	20.86	20.67	21.5
15	64QAM	1	37	20.66	20.32	20.45	20.69	20.78	
15	64QAM	1	74	20.57	20.27	20.35	20.66	20.84	
15	64QAM	36	0	20.65	20.38	20.60	20.70	20.60	21.5
15	64QAM	36	20	20.56	20.34	20.39	20.77	20.83	
15	64QAM	36	39	20.54	20.36	20.57	20.68	20.86	
15	64QAM	75	0	20.59	20.46	20.41	20.69	20.90	
15	256QAM	1	0	20.57	20.29	20.21	20.64	20.76	21.5
15	256QAM	1	37	20.44	20.29	20.43	20.68	20.65	
15	256QAM	1	74	20.47	20.23	20.33	20.67	20.78	
15	256QAM	36	0	20.55	20.32	20.26	20.70	20.59	21.5
15	256QAM	36	20	20.52	20.31	20.33	20.49	20.80	
15	256QAM	36	39	20.48	20.23	20.48	20.65	20.81	



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15	256QAM	75	0	20.36	20.23	20.37	20.58	20.63	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	20.50	20.35	20.40	20.71	20.90	21.50
10	QPSK	1	25	20.59	20.17	20.30	20.64	20.69	
10	QPSK	1	49	20.54	20.20	20.42	20.58	20.74	
10	QPSK	25	0	20.68	20.39	20.54	20.86	20.72	21.5
10	QPSK	25	12	20.67	20.33	20.46	20.75	20.83	
10	QPSK	25	25	20.50	20.43	20.52	20.77	20.70	
10	QPSK	50	0	20.60	20.27	20.44	20.75	20.90	
10	16QAM	1	0	20.77	20.63	20.84	20.82	20.66	21.5
10	16QAM	1	25	20.80	20.65	20.65	20.55	20.70	
10	16QAM	1	49	20.92	20.62	20.60	20.59	20.74	
10	16QAM	25	0	20.73	20.47	20.49	20.88	20.77	21.5
10	16QAM	25	12	20.64	20.34	20.62	20.73	20.87	
10	16QAM	25	25	20.64	20.42	20.60	20.87	20.91	
10	16QAM	50	0	20.58	20.43	20.55	20.72	20.78	
10	64QAM	1	0	20.66	20.53	20.57	20.85	20.66	21.5
10	64QAM	1	25	20.73	20.31	20.51	20.69	20.77	
10	64QAM	1	49	20.60	20.42	20.46	20.62	20.69	
10	64QAM	25	0	20.58	20.33	20.49	20.82	20.75	21.5
10	64QAM	25	12	20.55	20.33	20.49	20.69	20.86	
10	64QAM	25	25	20.56	20.29	20.47	20.69	20.85	
10	64QAM	50	0	20.52	20.46	20.51	20.79	20.90	
10	256QAM	1	0	20.54	20.28	20.24	20.64	20.86	21.5
10	256QAM	1	25	20.38	20.21	20.45	20.69	20.67	
10	256QAM	1	49	20.47	20.28	20.49	20.60	20.78	
10	256QAM	25	0	20.59	20.32	20.30	20.57	20.62	21.5
10	256QAM	25	12	20.48	20.26	20.42	20.45	20.75	
10	256QAM	25	25	20.51	20.26	20.34	20.70	20.83	
10	256QAM	50	0	20.46	20.23	20.31	20.56	20.60	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	20.46	20.31	20.54	20.72	20.89	21.50
5	QPSK	1	12	20.43	20.34	20.27	20.69	20.82	
5	QPSK	1	24	20.47	20.24	20.40	20.49	20.82	
5	QPSK	12	0	20.71	20.46	20.60	20.82	20.74	21.5
5	QPSK	12	7	20.54	20.31	20.48	20.66	20.79	
5	QPSK	12	13	20.48	20.43	20.48	20.74	20.72	
5	QPSK	25	0	20.65	20.24	20.40	20.75	20.71	
5	16QAM	1	0	20.72	20.81	20.84	20.65	20.80	21.5
5	16QAM	1	12	20.74	20.63	20.64	20.56	20.61	
5	16QAM	1	24	20.86	20.68	20.78	20.72	20.60	
5	16QAM	12	0	20.67	20.35	20.55	20.75	20.70	21.5
5	16QAM	12	7	20.69	20.50	20.56	20.74	20.75	
5	16QAM	12	13	20.50	20.33	20.41	20.70	20.77	
5	16QAM	25	0	20.57	20.39	20.56	20.81	20.78	
5	64QAM	1	0	20.57	20.50	20.63	20.76	20.63	21.5
5	64QAM	1	12	20.55	20.29	20.43	20.82	20.74	
5	64QAM	1	24	20.49	20.26	20.43	20.62	20.89	
5	64QAM	12	0	20.60	20.46	20.57	20.83	20.66	21.5
5	64QAM	12	7	20.62	20.39	20.39	20.86	20.90	
5	64QAM	12	13	20.69	20.33	20.37	20.65	20.73	
5	64QAM	25	0	20.59	20.32	20.42	20.85	20.73	
5	256QAM	1	0	20.39	20.16	20.37	20.61	20.90	21.5
5	256QAM	1	12	20.27	20.24	20.35	20.65	20.67	
5	256QAM	1	24	20.61	20.23	20.46	20.60	20.69	
5	256QAM	12	0	20.57	20.34	20.30	20.67	20.63	21.5
5	256QAM	12	7	20.44	20.43	20.44	20.44	20.79	
5	256QAM	12	13	20.55	20.29	20.30	20.62	20.79	
5	256QAM	25	0	20.52	20.18	20.45	20.52	20.64	



<LTE Band 41_HPUE_Ant 0_Index 7>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.82	25.96	26.09	25.99	26.23	27
20	QPSK	1	49	25.77	25.94	25.93	25.97	26.18	
20	QPSK	1	99	25.74	25.97	25.87	25.91	26.15	
20	QPSK	50	0	25.03	25.13	25.12	25.14	25.34	26
20	QPSK	50	24	24.97	25.14	25.07	25.14	25.34	
20	QPSK	50	50	24.93	25.12	25.02	25.14	25.36	
20	QPSK	100	0	24.94	25.08	25.06	25.11	25.35	
20	16QAM	1	0	25.01	25.22	25.35	25.15	25.48	26
20	16QAM	1	49	24.99	25.18	25.28	25.00	25.45	
20	16QAM	1	99	24.97	25.25	25.14	24.94	25.39	
20	16QAM	50	0	23.99	24.08	24.14	24.07	24.34	25
20	16QAM	50	24	23.94	24.09	24.11	24.04	24.33	
20	16QAM	50	50	23.90	24.09	24.04	23.97	24.32	
20	16QAM	100	0	23.91	24.07	24.08	24.02	24.32	
20	64QAM	1	0	23.85	24.02	24.15	23.98	24.30	25
20	64QAM	1	49	23.80	23.98	24.04	23.87	24.27	
20	64QAM	1	99	23.94	24.07	23.91	23.73	24.22	
20	64QAM	50	0	22.94	23.04	23.07	22.99	23.27	24
20	64QAM	50	24	22.88	23.05	23.01	22.95	23.26	
20	64QAM	50	50	22.86	23.06	22.99	22.90	23.26	
20	64QAM	100	0	22.88	23.03	23.04	22.94	23.28	
20	256QAM	1	0	20.91	20.96	21.05	21.05	21.25	22
20	256QAM	1	49	20.79	20.90	21.00	20.94	21.13	
20	256QAM	1	99	20.68	20.72	20.82	20.81	20.97	
20	256QAM	50	0	20.89	21.01	21.10	21.09	21.30	22
20	256QAM	50	24	20.89	20.90	21.05	21.05	21.23	
20	256QAM	50	50	20.84	20.90	21.00	20.94	21.14	
20	256QAM	100	0	20.80	20.84	21.00	20.93	21.11	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	25.74	25.95	25.93	25.84	26.08	27.00
15	QPSK	1	37	25.63	25.75	25.80	25.83	26.11	
15	QPSK	1	74	25.72	25.79	25.86	25.84	26.02	
15	QPSK	36	0	24.89	25.05	24.96	24.99	25.23	26
15	QPSK	36	20	24.90	25.04	25.00	25.02	25.19	
15	QPSK	36	39	24.85	25.02	24.87	25.03	25.21	
15	QPSK	75	0	24.85	25.05	24.94	25.00	25.32	
15	16QAM	1	0	24.98	25.22	25.21	25.03	25.35	26
15	16QAM	1	37	24.80	25.04	25.11	24.91	25.28	
15	16QAM	1	74	24.91	25.24	25.09	24.88	25.29	
15	16QAM	36	0	23.84	23.95	24.13	23.94	24.23	25
15	16QAM	36	20	23.94	24.09	24.03	23.89	24.25	
15	16QAM	36	39	23.86	24.08	23.96	23.86	24.32	
15	16QAM	75	0	23.90	24.05	24.07	23.85	24.13	
15	64QAM	1	0	23.83	23.90	24.15	23.90	24.13	25
15	64QAM	1	37	23.67	23.95	23.91	23.70	24.09	
15	64QAM	1	74	23.76	23.91	23.84	23.70	24.18	
15	64QAM	36	0	22.92	22.91	23.03	22.85	23.12	24
15	64QAM	36	20	22.68	22.91	22.99	22.85	23.20	
15	64QAM	36	39	22.77	22.95	22.80	22.72	23.19	
15	64QAM	75	0	22.83	22.91	22.93	22.82	23.08	
15	256QAM	1	0	20.87	20.84	20.92	21.01	21.06	22
15	256QAM	1	37	20.72	20.85	20.99	20.81	20.97	
15	256QAM	1	74	20.65	20.58	20.78	20.79	20.94	
15	256QAM	36	0	20.83	20.94	20.91	21.00	21.24	22
15	256QAM	36	20	20.80	20.72	20.95	20.85	21.08	
15	256QAM	36	39	20.79	20.79	20.81	20.90	20.97	



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Report No. : FA4N0920C

15	256QAM	75	0	20.80	20.78	20.86	20.89	21.00	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	25.65	25.76	26.05	25.87	26.08	27.00
10	QPSK	1	25	25.70	25.91	25.75	25.78	26.00	
10	QPSK	1	49	25.59	25.88	25.80	25.78	25.96	
10	QPSK	25	0	24.85	24.95	24.92	25.13	25.24	26
10	QPSK	25	12	24.96	25.03	24.90	25.11	25.24	
10	QPSK	25	25	24.80	25.10	24.83	25.12	25.31	
10	QPSK	50	0	24.77	24.99	24.97	25.08	25.27	
10	16QAM	1	0	24.89	25.16	25.31	25.09	25.29	26
10	16QAM	1	25	24.96	24.98	25.08	24.88	25.26	
10	16QAM	1	49	24.83	25.11	25.08	24.80	25.19	
10	16QAM	25	0	23.98	24.02	24.14	23.89	24.29	25
10	16QAM	25	12	23.85	24.09	24.02	23.91	24.21	
10	16QAM	25	25	23.83	24.07	23.97	23.90	24.16	
10	16QAM	50	0	23.73	23.94	24.08	23.86	24.21	
10	64QAM	1	0	23.71	23.88	24.14	23.97	24.10	25
10	64QAM	1	25	23.64	23.98	23.97	23.87	24.10	
10	64QAM	1	49	23.81	24.07	23.81	23.63	24.14	
10	64QAM	25	0	22.79	22.95	22.94	22.81	23.16	24
10	64QAM	25	12	22.80	23.04	22.94	22.75	23.14	
10	64QAM	25	25	22.79	23.01	22.90	22.77	23.18	
10	64QAM	50	0	22.72	22.83	23.02	22.79	23.25	
10	256QAM	1	0	20.90	20.92	20.96	20.85	21.05	22
10	256QAM	1	25	20.61	20.85	20.85	20.82	21.10	
10	256QAM	1	49	20.59	20.56	20.68	20.72	20.93	
10	256QAM	25	0	20.85	20.89	21.08	20.93	21.27	22
10	256QAM	25	12	20.88	20.76	20.90	20.91	21.10	
10	256QAM	25	25	20.83	20.71	20.95	20.88	21.03	
10	256QAM	50	0	20.80	20.64	20.97	20.93	20.99	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	25.77	25.81	26.02	25.98	26.12	27.00
5	QPSK	1	12	25.58	25.91	25.80	25.78	26.04	
5	QPSK	1	24	25.56	25.89	25.82	25.79	26.00	
5	QPSK	12	0	24.84	25.10	24.97	25.14	25.29	26
5	QPSK	12	7	24.88	25.04	24.97	24.96	25.29	
5	QPSK	12	13	24.93	25.03	24.98	24.98	25.28	
5	QPSK	25	0	24.93	24.97	24.88	24.93	25.21	
5	16QAM	1	0	24.83	25.02	25.24	25.12	25.30	26
5	16QAM	1	12	24.92	25.12	25.27	24.93	25.34	
5	16QAM	1	24	24.85	25.12	25.06	24.82	25.29	
5	16QAM	12	0	23.90	23.95	24.10	23.87	24.18	25
5	16QAM	12	7	23.76	23.94	24.00	23.92	24.26	
5	16QAM	12	13	23.90	24.02	23.90	23.87	24.13	
5	16QAM	25	0	23.76	23.91	23.94	23.90	24.27	
5	64QAM	1	0	23.69	23.96	24.11	23.86	24.14	25
5	64QAM	1	12	23.74	23.92	23.85	23.75	24.21	
5	64QAM	1	24	23.85	24.06	23.80	23.62	24.17	
5	64QAM	12	0	22.87	22.87	22.91	22.99	23.13	24
5	64QAM	12	7	22.72	22.88	22.94	22.89	23.22	
5	64QAM	12	13	22.68	23.06	22.85	22.78	23.17	
5	64QAM	25	0	22.77	22.97	22.96	22.89	23.14	
5	256QAM	1	0	20.71	20.90	20.90	21.03	21.18	22
5	256QAM	1	12	20.64	20.89	20.97	20.85	20.95	
5	256QAM	1	24	20.49	20.57	20.68	20.72	20.95	
5	256QAM	12	0	20.86	20.95	21.04	21.06	21.11	22
5	256QAM	12	7	20.81	20.83	21.01	20.87	21.21	
5	256QAM	12	13	20.72	20.87	20.92	20.77	21.02	
5	256QAM	25	0	20.65	20.77	20.82	20.91	20.92	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.63	25.77	25.88	25.85	25.89	27
20	QPSK	1	49	25.51	25.73	25.76	25.69	25.61	
20	QPSK	1	99	25.53	25.81	25.72	25.64	25.82	
20	QPSK	50	0	24.84	24.96	24.89	25.02	24.98	26
20	QPSK	50	24	24.77	24.90	24.85	24.96	24.97	
20	QPSK	50	50	24.71	24.90	24.82	24.87	24.97	
20	QPSK	100	0	24.71	24.89	24.86	24.94	24.97	
20	16QAM	1	0	24.82	25.07	25.13	25.12	25.16	26
20	16QAM	1	49	24.75	24.99	25.00	24.92	25.14	
20	16QAM	1	99	24.74	25.07	24.97	24.86	25.05	
20	16QAM	50	0	23.77	23.91	23.90	23.98	23.98	25
20	16QAM	50	24	23.72	23.90	23.87	23.92	23.98	
20	16QAM	50	50	23.68	23.91	23.83	23.85	23.97	
20	16QAM	100	0	23.70	23.88	23.85	23.90	23.97	
20	64QAM	1	0	23.67	23.83	23.94	23.95	23.98	25
20	64QAM	1	49	23.57	23.79	23.83	23.76	23.88	
20	64QAM	1	99	23.58	23.85	23.80	23.66	23.88	
20	64QAM	50	0	22.74	22.87	22.88	22.93	22.92	
20	64QAM	50	24	22.68	22.84	22.83	22.85	22.91	24
20	64QAM	50	50	22.66	22.86	22.79	22.82	22.94	
20	64QAM	100	0	22.68	22.85	22.82	22.84	22.93	
20	256QAM	1	0	20.74	20.80	20.78	20.94	20.88	22
20	256QAM	1	49	20.67	20.66	20.72	20.79	20.80	
20	256QAM	1	99	20.57	20.62	20.62	20.76	20.65	
20	256QAM	50	0	20.77	20.84	20.89	20.95	20.92	22
20	256QAM	50	24	20.74	20.75	20.81	20.90	20.90	
20	256QAM	50	50	20.70	20.80	20.79	20.94	20.83	
20	256QAM	100	0	20.67	20.75	20.76	20.86	20.81	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	25.44	25.58	25.78	25.65	25.69	27.00
15	QPSK	1	37	25.49	25.54	25.74	25.57	25.52	
15	QPSK	1	74	25.37	25.63	25.64	25.58	25.79	
15	QPSK	36	0	24.70	24.85	24.81	24.89	24.78	26
15	QPSK	36	20	24.71	24.79	24.72	24.91	24.96	
15	QPSK	36	39	24.66	24.79	24.76	24.71	24.93	
15	QPSK	75	0	24.63	24.70	24.71	24.74	24.87	
15	16QAM	1	0	24.79	24.93	25.05	25.10	25.13	26
15	16QAM	1	37	24.64	24.81	24.86	24.83	25.01	
15	16QAM	1	74	24.56	25.05	24.84	24.66	24.98	
15	16QAM	36	0	23.72	23.71	23.73	23.96	23.93	25
15	16QAM	36	20	23.67	23.89	23.67	23.80	23.90	
15	16QAM	36	39	23.55	23.79	23.77	23.82	23.80	
15	16QAM	75	0	23.60	23.71	23.85	23.83	23.93	
15	64QAM	1	0	23.62	23.72	23.82	23.77	23.84	25
15	64QAM	1	37	23.48	23.61	23.81	23.63	23.86	
15	64QAM	1	74	23.40	23.79	23.80	23.63	23.85	
15	64QAM	36	0	22.55	22.75	22.71	22.92	22.77	24
15	64QAM	36	20	22.52	22.82	22.63	22.83	22.77	
15	64QAM	36	39	22.64	22.68	22.59	22.78	22.90	
15	64QAM	75	0	22.53	22.67	22.73	22.80	22.82	
15	256QAM	1	0	20.65	20.79	20.66	20.93	20.78	22
15	256QAM	1	37	20.48	20.66	20.63	20.73	20.78	
15	256QAM	1	74	20.54	20.60	20.52	20.72	20.60	
15	256QAM	36	0	20.72	20.77	20.82	20.78	20.88	22
15	256QAM	36	20	20.68	20.69	20.81	20.74	20.81	
15	256QAM	36	39	20.62	20.63	20.77	20.88	20.65	



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Report No. : FA4N0920C

15	256QAM	75	0	20.49	20.64	20.61	20.81	20.61	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	25.59	25.76	25.78	25.70	25.85	27.00
10	QPSK	1	25	25.51	25.69	25.73	25.62	25.43	
10	QPSK	1	49	25.36	25.62	25.59	25.53	25.81	
10	QPSK	25	0	24.82	24.80	24.83	24.97	24.84	26
10	QPSK	25	12	24.59	24.72	24.65	24.89	24.95	
10	QPSK	25	25	24.58	24.90	24.78	24.68	24.85	
10	QPSK	50	0	24.67	24.70	24.83	24.84	24.88	
10	16QAM	1	0	24.72	25.03	25.05	24.93	25.00	26
10	16QAM	1	25	24.60	24.92	24.99	24.82	25.02	
10	16QAM	1	49	24.59	25.03	24.97	24.81	24.99	
10	16QAM	25	0	23.61	23.84	23.77	23.97	23.85	25
10	16QAM	25	12	23.66	23.90	23.85	23.73	23.81	
10	16QAM	25	25	23.54	23.82	23.63	23.70	23.81	
10	16QAM	50	0	23.66	23.68	23.81	23.80	23.80	
10	64QAM	1	0	23.56	23.81	23.91	23.93	23.80	25
10	64QAM	1	25	23.48	23.70	23.73	23.76	23.80	
10	64QAM	1	49	23.49	23.82	23.75	23.66	23.73	
10	64QAM	25	0	22.71	22.68	22.73	22.76	22.82	24
10	64QAM	25	12	22.55	22.74	22.79	22.72	22.84	
10	64QAM	25	25	22.51	22.80	22.65	22.63	22.92	
10	64QAM	50	0	22.50	22.76	22.75	22.79	22.78	
10	256QAM	1	0	20.64	20.74	20.72	20.86	20.84	22
10	256QAM	1	25	20.61	20.46	20.53	20.71	20.63	
10	256QAM	1	49	20.56	20.47	20.55	20.65	20.53	
10	256QAM	25	0	20.68	20.81	20.71	20.82	20.83	22
10	256QAM	25	12	20.56	20.70	20.76	20.82	20.70	
10	256QAM	25	25	20.64	20.71	20.68	20.84	20.68	
10	256QAM	50	0	20.56	20.69	20.59	20.67	20.78	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	25.63	25.63	25.83	25.69	25.79	27.00
5	QPSK	1	12	25.36	25.69	25.56	25.56	25.55	
5	QPSK	1	24	25.52	25.68	25.61	25.48	25.74	
5	QPSK	12	0	24.64	24.93	24.74	24.92	24.92	26
5	QPSK	12	7	24.65	24.87	24.79	24.95	24.87	
5	QPSK	12	13	24.60	24.76	24.74	24.70	24.85	
5	QPSK	25	0	24.64	24.81	24.70	24.85	24.88	
5	16QAM	1	0	24.63	24.88	24.93	25.07	24.97	26
5	16QAM	1	12	24.60	24.93	24.90	24.86	25.00	
5	16QAM	1	24	24.62	24.97	24.88	24.81	25.01	
5	16QAM	12	0	23.68	23.86	23.85	23.94	23.79	25
5	16QAM	12	7	23.59	23.86	23.85	23.79	23.95	
5	16QAM	12	13	23.58	23.72	23.66	23.84	23.96	
5	16QAM	25	0	23.57	23.76	23.73	23.83	23.91	
5	64QAM	1	0	23.65	23.66	23.74	23.90	23.91	25
5	64QAM	1	12	23.46	23.59	23.77	23.74	23.73	
5	64QAM	1	24	23.38	23.85	23.78	23.48	23.85	
5	64QAM	12	0	22.71	22.73	22.77	22.91	22.92	24
5	64QAM	12	7	22.54	22.75	22.72	22.82	22.80	
5	64QAM	12	13	22.66	22.79	22.73	22.62	22.94	
5	64QAM	25	0	22.56	22.65	22.63	22.84	22.88	
5	256QAM	1	0	20.58	20.80	20.78	20.85	20.81	22
5	256QAM	1	12	20.50	20.58	20.65	20.76	20.60	
5	256QAM	1	24	20.53	20.50	20.53	20.63	20.47	
5	256QAM	12	0	20.61	20.80	20.72	20.77	20.87	22
5	256QAM	12	7	20.55	20.67	20.81	20.78	20.82	
5	256QAM	12	13	20.58	20.74	20.62	20.90	20.70	
5	256QAM	25	0	20.63	20.60	20.75	20.82	20.75	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	19.66	19.78	19.74	19.89	19.93	20
20	QPSK	1	49	19.59	19.70	19.59	19.73	19.82	
20	QPSK	1	99	19.67	19.69	19.56	19.72	19.82	
20	QPSK	50	0	19.64	19.74	19.70	19.86	19.90	20
20	QPSK	50	24	19.63	19.73	19.64	19.84	19.83	
20	QPSK	50	50	19.63	19.72	19.58	19.82	19.79	
20	QPSK	100	0	19.62	19.71	19.64	19.84	19.85	
20	16QAM	1	0	19.75	19.86	19.81	19.87	19.90	20
20	16QAM	1	49	19.65	19.80	19.65	19.82	19.91	
20	16QAM	1	99	19.69	19.80	19.60	19.81	19.86	
20	16QAM	50	0	19.70	19.83	19.74	19.89	19.84	20
20	16QAM	50	24	19.67	19.79	19.71	19.89	19.92	
20	16QAM	50	50	19.66	19.77	19.64	19.84	19.87	
20	16QAM	100	0	19.67	19.77	19.69	19.87	19.89	
20	64QAM	1	0	19.38	19.51	19.47	19.61	19.69	20
20	64QAM	1	49	19.37	19.52	19.39	19.60	19.64	
20	64QAM	1	99	19.33	19.44	19.26	19.46	19.48	
20	64QAM	50	0	19.69	19.84	19.76	19.92	19.88	20
20	64QAM	50	24	19.67	19.79	19.71	19.87	19.92	
20	64QAM	50	50	19.67	19.77	19.65	19.84	19.89	
20	64QAM	100	0	19.69	19.80	19.68	19.85	19.91	
20	256QAM	1	0	18.85	18.96	18.89	19.08	19.23	20
20	256QAM	1	49	18.71	18.77	18.83	19.01	19.11	
20	256QAM	1	99	18.59	18.73	18.84	18.85	18.91	
20	256QAM	50	0	19.16	19.21	19.32	19.41	19.45	20
20	256QAM	50	24	19.10	19.16	19.12	19.19	19.34	
20	256QAM	50	50	18.95	18.97	19.07	19.14	19.31	
20	256QAM	100	0	18.95	19.09	19.20	19.23	19.38	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	19.62	19.71	19.74	19.74	19.90	20.00
15	QPSK	1	37	19.59	19.60	19.53	19.68	19.62	
15	QPSK	1	74	19.67	19.64	19.41	19.72	19.74	
15	QPSK	36	0	19.62	19.55	19.69	19.77	19.80	20
15	QPSK	36	20	19.57	19.59	19.60	19.71	19.72	
15	QPSK	36	39	19.48	19.60	19.46	19.70	19.60	
15	QPSK	75	0	19.54	19.67	19.49	19.81	19.76	
15	16QAM	1	0	19.70	19.80	19.74	19.75	19.75	20
15	16QAM	1	37	19.47	19.60	19.63	19.62	19.90	
15	16QAM	1	74	19.63	19.78	19.40	19.77	19.70	
15	16QAM	36	0	19.70	19.65	19.55	19.77	19.76	20
15	16QAM	36	20	19.53	19.73	19.54	19.74	19.77	
15	16QAM	36	39	19.46	19.63	19.64	19.67	19.68	
15	16QAM	75	0	19.62	19.67	19.61	19.78	19.69	
15	64QAM	1	0	19.24	19.48	19.34	19.52	19.63	20
15	64QAM	1	37	19.28	19.33	19.39	19.43	19.51	
15	64QAM	1	74	19.30	19.29	19.21	19.28	19.35	
15	64QAM	36	0	19.69	19.67	19.73	19.77	19.82	20
15	64QAM	36	20	19.56	19.63	19.53	19.81	19.87	
15	64QAM	36	39	19.65	19.71	19.48	19.64	19.77	
15	64QAM	75	0	19.69	19.78	19.63	19.77	19.88	
15	256QAM	1	0	18.68	18.86	18.75	18.91	19.20	20
15	256QAM	1	37	18.61	18.68	18.63	18.81	19.05	
15	256QAM	1	74	18.59	18.67	18.64	18.81	18.87	
15	256QAM	36	0	19.03	19.09	19.29	19.37	19.39	20
15	256QAM	36	20	18.96	19.01	18.98	19.04	19.32	
15	256QAM	36	39	18.75	18.88	19.02	19.09	19.22	



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15	256QAM	75	0	18.83	18.90	19.00	19.06	19.19	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	19.51	19.72	19.63	19.79	19.90	20.00
10	QPSK	1	25	19.40	19.65	19.57	19.55	19.79	
10	QPSK	1	49	19.53	19.66	19.39	19.65	19.80	
10	QPSK	25	0	19.64	19.65	19.54	19.83	19.89	20
10	QPSK	25	12	19.54	19.70	19.53	19.70	19.77	
10	QPSK	25	25	19.51	19.53	19.55	19.80	19.70	
10	QPSK	50	0	19.47	19.61	19.56	19.80	19.73	
10	16QAM	1	0	19.62	19.74	19.61	19.72	19.75	20
10	16QAM	1	25	19.52	19.76	19.49	19.74	19.71	
10	16QAM	1	49	19.65	19.72	19.45	19.74	19.81	
10	16QAM	25	0	19.59	19.70	19.65	19.72	19.74	20
10	16QAM	25	12	19.61	19.62	19.58	19.81	19.72	
10	16QAM	25	25	19.60	19.63	19.45	19.79	19.81	
10	16QAM	50	0	19.47	19.63	19.56	19.80	19.80	
10	64QAM	1	0	19.28	19.42	19.42	19.60	19.62	20
10	64QAM	1	25	19.35	19.41	19.30	19.40	19.48	
10	64QAM	1	49	19.32	19.27	19.06	19.31	19.30	
10	64QAM	25	0	19.56	19.80	19.59	19.87	19.88	20
10	64QAM	25	12	19.58	19.68	19.70	19.85	19.73	
10	64QAM	25	25	19.63	19.67	19.51	19.70	19.82	
10	64QAM	50	0	19.68	19.65	19.54	19.76	19.77	
10	256QAM	1	0	18.83	18.80	18.87	19.05	19.06	20
10	256QAM	1	25	18.69	18.74	18.72	18.87	19.03	
10	256QAM	1	49	18.42	18.65	18.70	18.82	18.76	
10	256QAM	25	0	19.11	19.18	19.29	19.28	19.41	20
10	256QAM	25	12	18.91	19.13	19.10	19.03	19.19	
10	256QAM	25	25	18.79	18.79	18.92	19.07	19.23	
10	256QAM	50	0	18.84	19.02	19.07	19.21	19.18	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	19.56	19.60	19.61	19.80	19.77	20.00
5	QPSK	1	12	19.48	19.56	19.55	19.53	19.69	
5	QPSK	1	24	19.57	19.59	19.38	19.70	19.77	
5	QPSK	12	0	19.47	19.59	19.60	19.85	19.84	20
5	QPSK	12	7	19.49	19.58	19.56	19.68	19.79	
5	QPSK	12	13	19.61	19.69	19.49	19.74	19.76	
5	QPSK	25	0	19.46	19.54	19.60	19.77	19.75	
5	16QAM	1	0	19.75	19.85	19.72	19.74	19.73	20
5	16QAM	1	12	19.62	19.75	19.59	19.68	19.86	
5	16QAM	1	24	19.64	19.79	19.56	19.62	19.85	
5	16QAM	12	0	19.55	19.72	19.63	19.78	19.76	20
5	16QAM	12	7	19.64	19.79	19.61	19.83	19.78	
5	16QAM	12	13	19.59	19.60	19.53	19.76	19.84	
5	16QAM	25	0	19.58	19.70	19.49	19.76	19.82	
5	64QAM	1	0	19.28	19.44	19.46	19.46	19.69	20
5	64QAM	1	12	19.31	19.52	19.26	19.40	19.59	
5	64QAM	1	24	19.18	19.31	19.20	19.40	19.35	
5	64QAM	12	0	19.55	19.78	19.65	19.72	19.78	20
5	64QAM	12	7	19.66	19.77	19.52	19.75	19.76	
5	64QAM	12	13	19.64	19.69	19.52	19.75	19.83	
5	64QAM	25	0	19.63	19.62	19.61	19.70	19.81	
5	256QAM	1	0	18.70	18.88	18.87	18.88	19.08	20
5	256QAM	1	12	18.65	18.61	18.74	18.96	19.05	
5	256QAM	1	24	18.46	18.53	18.75	18.66	18.76	
5	256QAM	12	0	19.16	19.21	19.18	19.23	19.25	20
5	256QAM	12	7	18.99	19.00	18.99	19.19	19.31	
5	256QAM	12	13	18.93	18.93	19.00	19.09	19.27	
5	256QAM	25	0	18.77	19.04	19.15	19.22	19.27	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	24.4
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.72	23.55	23.63	23.90	24.03	24.4
20	QPSK	1	49	23.72	23.43	23.58	23.85	23.98	
20	QPSK	1	99	23.63	23.44	23.54	23.81	23.92	
20	QPSK	50	0	23.28	23.08	23.08	23.45	23.46	24
20	QPSK	50	24	23.23	23.07	23.04	23.27	23.44	
20	QPSK	50	50	23.27	22.88	23.08	23.44	23.44	
20	QPSK	100	0	23.22	23.06	23.03	23.45	23.46	24
20	16QAM	1	0	23.31	23.21	23.36	23.55	23.67	
20	16QAM	1	49	23.17	23.10	23.14	23.29	23.52	
20	16QAM	1	99	23.22	22.93	23.17	23.39	23.62	23
20	16QAM	50	0	22.20	22.05	22.12	22.34	22.51	
20	16QAM	50	24	22.36	21.94	22.06	22.38	22.54	
20	16QAM	50	50	22.33	22.07	22.11	22.27	22.54	23
20	16QAM	100	0	22.28	22.06	22.07	22.39	22.40	
20	64QAM	1	0	21.92	21.74	21.86	22.12	22.15	
20	64QAM	1	49	21.99	21.69	21.85	21.97	22.07	22
20	64QAM	1	99	21.85	21.57	21.66	21.89	22.02	
20	64QAM	50	0	21.30	20.98	21.10	21.49	21.51	
20	64QAM	50	24	21.30	20.90	21.08	21.27	21.37	20
20	64QAM	50	50	21.30	20.93	21.00	21.32	21.40	
20	64QAM	100	0	21.27	21.00	21.07	21.38	21.44	
20	256QAM	1	0	19.04	18.82	18.90	19.31	19.30	20
20	256QAM	1	49	18.97	18.73	18.83	19.25	19.24	
20	256QAM	1	99	18.77	18.58	18.87	19.04	19.09	
20	256QAM	50	0	19.19	19.07	19.19	19.39	19.46	20
20	256QAM	50	24	19.17	18.94	19.06	19.50	19.42	
20	256QAM	50	50	19.07	19.02	19.16	19.26	19.47	
20	256QAM	100	0	19.23	19.09	19.19	19.28	19.34	Tune-up limit (dBm)
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	24.40
15	QPSK	1	0	23.68	23.40	23.55	23.86	23.85	
15	QPSK	1	37	23.68	23.34	23.39	23.76	23.81	24
15	QPSK	1	74	23.47	23.30	23.35	23.80	23.72	
15	QPSK	36	0	23.22	22.82	23.01	23.32	23.32	
15	QPSK	36	20	23.11	22.83	22.89	23.33	23.53	24
15	QPSK	36	39	23.17	22.82	23.02	23.24	23.37	
15	QPSK	75	0	23.23	22.91	22.84	23.22	23.29	
15	16QAM	1	0	23.23	22.98	23.25	23.51	23.62	24
15	16QAM	1	37	23.23	23.01	23.09	23.22	23.37	
15	16QAM	1	74	23.16	23.10	22.98	23.10	23.53	
15	16QAM	36	0	22.16	21.79	21.88	22.44	22.27	23
15	16QAM	36	20	22.24	22.08	22.02	22.36	22.48	
15	16QAM	36	39	22.06	21.97	22.01	22.20	22.36	
15	16QAM	75	0	22.14	21.95	22.09	22.45	22.29	23
15	64QAM	1	0	21.75	21.65	21.85	22.08	22.20	
15	64QAM	1	37	21.90	21.43	21.54	21.81	22.18	
15	64QAM	1	74	21.63	21.53	21.56	21.76	22.06	22
15	64QAM	36	0	21.35	21.08	21.05	21.32	21.27	
15	64QAM	36	20	21.19	20.86	20.97	21.24	21.52	
15	64QAM	36	39	21.29	20.91	20.83	21.34	21.49	20
15	64QAM	75	0	21.04	20.98	20.96	21.17	21.32	
15	256QAM	1	0	18.95	18.71	18.74	19.17	19.14	
15	256QAM	1	37	18.69	18.61	18.65	19.16	18.91	20
15	256QAM	1	74	18.65	18.56	18.73	19.11	19.02	
15	256QAM	36	0	19.17	18.81	19.04	19.30	19.38	
15	256QAM	36	20	18.99	18.92	19.03	19.35	19.35	20
15	256QAM	36	39	19.03	18.73	18.98	19.33	19.19	



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Report No. : FA4N0920C

15	256QAM	75	0	18.95	18.92	19.09	19.26	19.41	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	23.52	23.51	23.50	23.77	23.98	24.40
10	QPSK	1	25	23.56	23.23	23.54	23.69	23.93	
10	QPSK	1	49	23.62	23.26	23.41	23.65	23.75	
10	QPSK	25	0	23.02	22.93	23.13	23.37	23.38	24
10	QPSK	25	12	23.19	22.95	22.87	23.37	23.34	
10	QPSK	25	25	23.08	23.01	22.94	23.25	23.29	
10	QPSK	50	0	23.20	22.88	23.03	23.17	23.41	
10	16QAM	1	0	23.35	23.07	23.14	23.41	23.58	24
10	16QAM	1	25	23.28	22.94	22.99	23.26	23.42	
10	16QAM	1	49	23.06	22.88	23.10	23.15	23.48	
10	16QAM	25	0	22.23	22.00	22.12	22.34	22.49	23
10	16QAM	25	12	22.24	21.76	21.97	22.19	22.49	
10	16QAM	25	25	21.99	21.91	22.07	22.28	22.51	
10	16QAM	50	0	21.97	21.90	21.98	22.32	22.40	
10	64QAM	1	0	21.77	21.67	21.60	22.07	22.18	23
10	64QAM	1	25	21.72	21.58	21.77	21.99	22.08	
10	64QAM	1	49	21.71	21.55	21.58	21.71	21.87	
10	64QAM	25	0	21.26	20.93	20.97	21.27	21.32	22
10	64QAM	25	12	21.11	20.73	20.92	21.22	21.40	
10	64QAM	25	25	21.15	20.92	21.10	21.33	21.31	
10	64QAM	50	0	21.00	20.92	20.98	21.18	21.47	
10	256QAM	1	0	18.76	18.66	18.79	19.06	19.28	20
10	256QAM	1	25	18.86	18.75	18.68	19.12	18.96	
10	256QAM	1	49	18.67	18.51	18.69	19.15	18.97	
10	256QAM	25	0	19.13	19.08	19.26	19.42	19.37	20
10	256QAM	25	12	18.98	18.76	18.98	19.18	19.32	
10	256QAM	25	25	18.86	18.69	18.92	19.17	19.18	
10	256QAM	50	0	19.24	18.87	19.09	19.41	19.21	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	23.52	23.37	23.54	23.81	23.98	24.40
5	QPSK	1	12	23.56	23.30	23.52	23.67	23.92	
5	QPSK	1	24	23.48	23.35	23.48	23.73	23.91	
5	QPSK	12	0	23.16	22.90	23.08	23.26	23.55	24
5	QPSK	12	7	23.08	22.91	22.98	23.31	23.47	
5	QPSK	12	13	23.03	22.95	23.02	23.18	23.36	
5	QPSK	25	0	22.95	22.96	22.99	23.30	23.26	
5	16QAM	1	0	23.23	23.09	23.14	23.30	23.64	24
5	16QAM	1	12	23.07	22.86	23.08	23.19	23.54	
5	16QAM	1	24	23.24	22.75	23.02	23.40	23.45	
5	16QAM	12	0	22.03	22.02	21.96	22.28	22.51	23
5	16QAM	12	7	22.09	21.91	21.99	22.37	22.35	
5	16QAM	12	13	22.07	21.88	21.88	22.17	22.35	
5	16QAM	25	0	22.25	22.01	22.01	22.37	22.52	
5	64QAM	1	0	21.73	21.45	21.80	22.19	22.10	23
5	64QAM	1	12	21.84	21.42	21.72	21.91	22.17	
5	64QAM	1	24	21.67	21.44	21.69	21.92	21.97	
5	64QAM	12	0	21.07	20.93	21.11	21.27	21.52	22
5	64QAM	12	7	21.13	20.96	20.99	21.36	21.32	
5	64QAM	12	13	21.17	20.99	21.02	21.17	21.26	
5	64QAM	25	0	21.12	20.94	20.95	21.26	21.29	
5	256QAM	1	0	18.76	18.78	18.90	19.24	19.27	20
5	256QAM	1	12	18.70	18.71	18.74	18.96	19.02	
5	256QAM	1	24	18.68	18.54	18.62	18.83	18.91	
5	256QAM	12	0	18.98	18.91	19.06	19.33	19.30	20
5	256QAM	12	7	18.95	18.88	18.89	19.24	19.38	
5	256QAM	12	13	19.04	18.89	18.97	19.12	19.18	
5	256QAM	25	0	19.11	18.85	18.91	19.38	19.21	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	22.70	22.83	22.84	22.81	23.18	23.8
20	QPSK	1	49	22.61	22.81	22.79	22.81	23.17	
20	QPSK	1	99	22.62	22.81	22.64	22.58	23.02	
20	QPSK	50	0	22.68	22.80	22.86	22.82	23.10	23.8
20	QPSK	50	24	22.62	22.76	22.81	22.77	23.08	
20	QPSK	50	50	22.59	22.79	22.76	22.70	23.12	
20	QPSK	100	0	22.62	22.76	22.80	22.72	23.07	
20	16QAM	1	0	22.77	22.89	23.00	22.88	23.14	23.8
20	16QAM	1	49	22.68	22.87	22.82	22.72	23.06	
20	16QAM	1	99	22.64	22.93	22.79	22.66	23.08	
20	16QAM	50	0	21.79	21.91	21.97	21.88	22.18	23
20	16QAM	50	24	21.77	21.93	21.92	21.85	22.17	
20	16QAM	50	50	21.73	21.94	21.85	21.79	22.18	
20	16QAM	100	0	21.75	21.93	21.90	21.82	22.19	
20	64QAM	1	0	21.46	21.66	21.65	21.60	21.95	23
20	64QAM	1	49	21.47	21.67	21.59	21.57	21.91	
20	64QAM	1	99	21.41	21.65	21.42	21.49	21.81	
20	64QAM	50	0	20.79	20.94	20.90	20.89	21.24	22
20	64QAM	50	24	20.75	20.93	20.85	20.85	21.21	
20	64QAM	50	50	20.74	20.94	20.83	20.75	21.20	
20	64QAM	100	0	20.76	20.94	20.85	20.86	21.25	
20	256QAM	1	0	18.72	18.76	18.96	18.90	19.18	20
20	256QAM	1	49	18.62	18.56	18.74	18.61	18.91	
20	256QAM	1	99	18.41	18.49	18.59	18.56	18.91	
20	256QAM	50	0	18.81	18.89	19.14	18.92	19.25	20
20	256QAM	50	24	18.76	18.91	19.09	18.85	19.31	
20	256QAM	50	50	18.81	18.83	18.96	18.78	19.09	
20	256QAM	100	0	18.70	18.81	18.89	18.86	19.12	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.52	22.72	22.74	22.68	23.00	23.80
15	QPSK	1	37	22.50	22.70	22.68	22.73	23.00	
15	QPSK	1	74	22.60	22.80	22.63	22.45	22.89	
15	QPSK	36	0	22.50	22.60	22.72	22.69	22.99	23.8
15	QPSK	36	20	22.43	22.70	22.62	22.70	23.01	
15	QPSK	36	39	22.54	22.74	22.65	22.62	23.07	
15	QPSK	75	0	22.55	22.64	22.75	22.67	22.93	
15	16QAM	1	0	22.59	22.74	22.89	22.81	23.08	23.8
15	16QAM	1	37	22.61	22.86	22.78	22.69	23.04	
15	16QAM	1	74	22.53	22.74	22.69	22.62	22.99	
15	16QAM	36	0	21.74	21.72	21.78	21.82	22.08	23
15	16QAM	36	20	21.59	21.80	21.82	21.67	22.15	
15	16QAM	36	39	21.63	21.83	21.76	21.72	22.13	
15	16QAM	75	0	21.70	21.90	21.82	21.74	22.06	
15	64QAM	1	0	21.43	21.46	21.63	21.49	21.93	23
15	64QAM	1	37	21.41	21.59	21.39	21.55	21.72	
15	64QAM	1	74	21.26	21.53	21.23	21.36	21.63	
15	64QAM	36	0	20.72	20.92	20.90	20.87	21.20	22
15	64QAM	36	20	20.75	20.81	20.75	20.77	21.01	
15	64QAM	36	39	20.59	20.79	20.78	20.56	21.09	
15	64QAM	75	0	20.70	20.78	20.68	20.74	21.12	
15	256QAM	1	0	18.63	18.64	18.91	18.80	19.01	20
15	256QAM	1	37	18.51	18.37	18.65	18.52	18.90	
15	256QAM	1	74	18.27	18.49	18.49	18.38	18.78	
15	256QAM	36	0	18.61	18.69	19.13	18.75	19.10	20
15	256QAM	36	20	18.71	18.89	18.93	18.84	19.21	
15	256QAM	36	39	18.81	18.78	18.86	18.73	19.02	



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15	256QAM	75	0	18.51	18.61	18.76	18.86	19.05	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	22.60	22.79	22.74	22.67	23.08	23.80
10	QPSK	1	25	22.41	22.63	22.78	22.77	22.97	
10	QPSK	1	49	22.43	22.68	22.47	22.55	22.86	
10	QPSK	25	0	22.53	22.65	22.86	22.64	22.95	23.8
10	QPSK	25	12	22.50	22.58	22.70	22.71	22.98	
10	QPSK	25	25	22.50	22.75	22.76	22.55	23.08	
10	QPSK	50	0	22.60	22.57	22.64	22.59	22.99	
10	16QAM	1	0	22.59	22.79	22.83	22.81	23.08	23.8
10	16QAM	1	25	22.67	22.74	22.62	22.54	23.06	
10	16QAM	1	49	22.52	22.87	22.72	22.49	22.98	
10	16QAM	25	0	21.79	21.76	21.90	21.82	22.04	23
10	16QAM	25	12	21.73	21.79	21.79	21.73	22.04	
10	16QAM	25	25	21.71	21.91	21.77	21.63	22.05	
10	16QAM	50	0	21.60	21.83	21.83	21.70	22.07	
10	64QAM	1	0	21.44	21.47	21.48	21.45	21.77	23
10	64QAM	1	25	21.38	21.56	21.56	21.46	21.87	
10	64QAM	1	49	21.22	21.63	21.39	21.44	21.76	
10	64QAM	25	0	20.62	20.80	20.80	20.86	21.07	22
10	64QAM	25	12	20.69	20.74	20.72	20.85	21.20	
10	64QAM	25	25	20.64	20.76	20.81	20.55	21.03	
10	64QAM	50	0	20.57	20.93	20.77	20.77	21.07	
10	256QAM	1	0	18.52	18.59	18.79	18.72	19.01	20
10	256QAM	1	25	18.46	18.36	18.59	18.54	18.74	
10	256QAM	1	49	18.27	18.32	18.44	18.48	18.91	
10	256QAM	25	0	18.77	18.80	19.03	18.73	19.17	20
10	256QAM	25	12	18.73	18.79	18.89	18.69	19.29	
10	256QAM	25	25	18.76	18.69	18.94	18.76	18.94	
10	256QAM	50	0	18.53	18.62	18.70	18.79	19.07	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	22.69	22.76	22.76	22.77	22.98	23.80
5	QPSK	1	12	22.57	22.63	22.79	22.76	23.15	
5	QPSK	1	24	22.55	22.69	22.49	22.44	22.94	
5	QPSK	12	0	22.53	22.71	22.75	22.75	22.96	23.8
5	QPSK	12	7	22.46	22.62	22.71	22.71	22.96	
5	QPSK	12	13	22.55	22.65	22.71	22.60	23.01	
5	QPSK	25	0	22.57	22.68	22.68	22.72	22.97	
5	16QAM	1	0	22.59	22.72	22.95	22.68	23.02	23.8
5	16QAM	1	12	22.53	22.83	22.77	22.54	23.06	
5	16QAM	1	24	22.48	22.84	22.66	22.61	23.03	
5	16QAM	12	0	21.61	21.76	21.91	21.86	22.02	23
5	16QAM	12	7	21.77	21.85	21.81	21.72	21.98	
5	16QAM	12	13	21.73	21.89	21.75	21.67	22.17	
5	16QAM	25	0	21.61	21.82	21.85	21.65	22.15	
5	64QAM	1	0	21.29	21.55	21.58	21.56	21.95	23
5	64QAM	1	12	21.45	21.53	21.45	21.53	21.73	
5	64QAM	1	24	21.37	21.65	21.39	21.33	21.69	
5	64QAM	12	0	20.59	20.92	20.84	20.89	21.22	22
5	64QAM	12	7	20.62	20.77	20.80	20.69	21.12	
5	64QAM	12	13	20.70	20.74	20.78	20.60	21.10	
5	64QAM	25	0	20.72	20.81	20.72	20.70	21.12	
5	256QAM	1	0	18.72	18.64	18.94	18.79	19.09	20
5	256QAM	1	12	18.59	18.49	18.69	18.51	18.90	
5	256QAM	1	24	18.39	18.40	18.54	18.38	18.73	
5	256QAM	12	0	18.61	18.79	19.12	18.80	19.14	20
5	256QAM	12	7	18.59	18.75	19.04	18.78	19.31	
5	256QAM	12	13	18.81	18.70	18.96	18.69	18.97	
5	256QAM	25	0	18.66	18.66	18.79	18.86	19.05	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.83	24.00	23.92	24.09	24.16	25
20	QPSK	1	49	23.82	24.05	23.92	24.02	24.09	
20	QPSK	1	99	23.74	23.97	23.81	23.90	24.04	
20	QPSK	50	0	22.82	22.95	22.90	23.01	23.09	24
20	QPSK	50	24	22.80	22.96	22.87	23.00	23.09	
20	QPSK	50	50	22.76	22.92	22.82	22.93	23.08	
20	QPSK	100	0	22.80	22.86	22.88	22.90	23.00	24
20	16QAM	1	0	22.85	23.02	23.04	23.13	23.12	
20	16QAM	1	49	22.70	22.92	22.88	22.93	22.96	
20	16QAM	1	99	22.70	22.98	22.90	22.84	23.00	23
20	16QAM	50	0	21.81	21.93	21.94	21.99	22.00	
20	16QAM	50	24	21.77	21.93	21.92	21.93	21.98	
20	16QAM	50	50	21.73	21.93	21.87	21.87	21.99	23
20	16QAM	100	0	21.76	21.92	21.91	21.92	21.98	
20	64QAM	1	0	21.51	21.69	21.59	21.74	21.79	
20	64QAM	1	49	21.47	21.71	21.53	21.66	21.74	22
20	64QAM	1	99	21.41	21.61	21.45	21.52	21.68	
20	64QAM	50	0	20.81	20.97	20.88	21.02	21.05	
20	64QAM	50	24	20.78	20.95	20.83	20.95	21.03	20
20	64QAM	50	50	20.75	20.93	20.83	20.91	21.00	
20	64QAM	100	0	20.80	20.95	20.83	20.95	21.03	
20	256QAM	1	0	18.67	18.80	18.69	18.87	18.83	20
20	256QAM	1	49	18.49	18.70	18.60	18.75	18.73	
20	256QAM	1	99	18.47	18.61	18.55	18.69	18.64	
20	256QAM	50	0	18.83	18.89	18.88	19.05	19.00	20
20	256QAM	50	24	18.76	18.97	18.86	19.04	18.93	
20	256QAM	50	50	18.78	18.96	18.85	19.03	18.93	
20	256QAM	100	0	18.74	18.89	18.84	19.00	18.91	Tune-up limit (dBm)
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	23.75	23.93	23.78	23.89	24.00	
15	QPSK	1	37	23.66	23.85	23.89	24.00	24.03	25.00
15	QPSK	1	74	23.56	23.87	23.73	23.82	24.01	
15	QPSK	36	0	22.78	22.88	22.76	22.83	23.03	
15	QPSK	36	20	22.69	22.80	22.75	22.90	23.08	24
15	QPSK	36	39	22.61	22.90	22.70	22.92	22.88	
15	QPSK	75	0	22.73	22.85	22.86	22.89	22.90	
15	16QAM	1	0	22.65	22.93	22.94	23.02	22.93	24
15	16QAM	1	37	22.65	22.82	22.78	22.91	22.77	
15	16QAM	1	74	22.58	22.87	22.85	22.75	23.00	
15	16QAM	36	0	21.73	21.79	21.92	21.92	21.90	23
15	16QAM	36	20	21.70	21.77	21.81	21.73	21.78	
15	16QAM	36	39	21.60	21.92	21.67	21.79	21.88	
15	16QAM	75	0	21.71	21.90	21.77	21.79	21.78	23
15	64QAM	1	0	21.33	21.56	21.54	21.69	21.62	
15	64QAM	1	37	21.28	21.59	21.43	21.61	21.57	
15	64QAM	1	74	21.32	21.56	21.36	21.39	21.63	22
15	64QAM	36	0	20.74	20.80	20.71	20.98	21.04	
15	64QAM	36	20	20.76	20.91	20.76	20.81	20.90	
15	64QAM	36	39	20.65	20.75	20.82	20.82	20.94	20
15	64QAM	75	0	20.70	20.77	20.74	20.87	20.87	
15	256QAM	1	0	18.59	18.66	18.50	18.72	18.82	
15	256QAM	1	37	18.44	18.67	18.59	18.75	18.54	20
15	256QAM	1	74	18.40	18.56	18.51	18.62	18.63	
15	256QAM	36	0	18.81	18.86	18.88	18.97	19.00	
15	256QAM	36	20	18.62	18.88	18.77	18.91	18.90	20
15	256QAM	36	39	18.64	18.83	18.70	18.87	18.81	



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Report No. : FA4N0920C

15	256QAM	75	0	18.73	18.87	18.65	18.86	18.88	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	23.70	24.00	23.91	23.91	23.99	25.00
10	QPSK	1	25	23.63	23.99	23.81	23.82	23.97	
10	QPSK	1	49	23.61	23.87	23.81	23.76	23.97	
10	QPSK	25	0	22.72	22.80	22.73	22.88	22.96	24
10	QPSK	25	12	22.64	22.80	22.71	22.98	23.06	
10	QPSK	25	25	22.68	22.84	22.73	22.76	23.02	
10	QPSK	50	0	22.76	22.73	22.81	22.83	22.89	
10	16QAM	1	0	22.84	22.88	22.86	23.00	22.99	24
10	16QAM	1	25	22.66	22.79	22.72	22.84	22.83	
10	16QAM	1	49	22.62	22.86	22.84	22.80	22.87	
10	16QAM	25	0	21.73	21.82	21.75	21.93	21.97	23
10	16QAM	25	12	21.75	21.88	21.73	21.84	21.92	
10	16QAM	25	25	21.54	21.73	21.72	21.74	21.86	
10	16QAM	50	0	21.57	21.87	21.77	21.91	21.88	
10	64QAM	1	0	21.35	21.58	21.43	21.59	21.67	23
10	64QAM	1	25	21.44	21.69	21.45	21.63	21.71	
10	64QAM	1	49	21.26	21.59	21.25	21.46	21.55	
10	64QAM	25	0	20.68	20.92	20.69	20.85	20.90	22
10	64QAM	25	12	20.78	20.82	20.80	20.80	20.87	
10	64QAM	25	25	20.55	20.80	20.76	20.80	20.98	
10	64QAM	50	0	20.72	20.92	20.66	20.94	20.89	
10	256QAM	1	0	18.63	18.75	18.53	18.84	18.81	20
10	256QAM	1	25	18.29	18.61	18.56	18.60	18.64	
10	256QAM	1	49	18.40	18.54	18.44	18.57	18.44	
10	256QAM	25	0	18.69	18.76	18.84	18.93	18.90	20
10	256QAM	25	12	18.62	18.95	18.69	18.95	18.75	
10	256QAM	25	25	18.66	18.89	18.79	19.00	18.74	
10	256QAM	50	0	18.57	18.85	18.80	18.98	18.78	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	23.76	23.92	23.84	23.94	24.09	25.00
5	QPSK	1	12	23.69	23.88	23.79	23.97	23.98	
5	QPSK	1	24	23.61	23.86	23.79	23.72	23.87	
5	QPSK	12	0	22.63	22.83	22.88	22.97	22.98	24
5	QPSK	12	7	22.77	22.91	22.86	22.87	23.02	
5	QPSK	12	13	22.75	22.86	22.82	22.78	23.07	
5	QPSK	25	0	22.60	22.76	22.86	22.88	22.85	
5	16QAM	1	0	22.83	22.97	22.95	22.94	22.96	24
5	16QAM	1	12	22.59	22.91	22.70	22.93	22.85	
5	16QAM	1	24	22.56	22.93	22.79	22.77	22.90	
5	16QAM	12	0	21.65	21.78	21.79	21.79	21.94	23
5	16QAM	12	7	21.74	21.78	21.85	21.86	21.94	
5	16QAM	12	13	21.66	21.83	21.82	21.86	21.91	
5	16QAM	25	0	21.63	21.85	21.81	21.74	21.97	
5	64QAM	1	0	21.50	21.56	21.59	21.62	21.71	23
5	64QAM	1	12	21.33	21.61	21.35	21.47	21.61	
5	64QAM	1	24	21.30	21.57	21.37	21.42	21.61	
5	64QAM	12	0	20.62	20.96	20.77	20.85	21.00	22
5	64QAM	12	7	20.74	20.84	20.79	20.89	20.90	
5	64QAM	12	13	20.67	20.92	20.75	20.72	20.94	
5	64QAM	25	0	20.77	20.91	20.69	20.86	20.89	
5	256QAM	1	0	18.47	18.65	18.59	18.68	18.74	20
5	256QAM	1	12	18.40	18.53	18.47	18.64	18.72	
5	256QAM	1	24	18.47	18.42	18.45	18.64	18.47	
5	256QAM	12	0	18.79	18.81	18.83	19.05	18.98	20
5	256QAM	12	7	18.64	18.83	18.81	18.96	18.74	
5	256QAM	12	13	18.69	18.89	18.82	18.90	18.90	
5	256QAM	25	0	18.71	18.77	18.67	18.97	18.85	



<LTE Band 41_HPUE_Ant 2_Index 9>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	21.6
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	21.06	21.21	21.11	21.27	21.38	21.6
20	QPSK	1	49	21.00	21.12	21.00	21.19	21.29	
20	QPSK	1	99	21.03	21.12	20.96	21.14	21.24	
20	QPSK	50	0	21.10	21.20	21.15	21.31	21.37	21.6
20	QPSK	50	24	21.08	21.20	21.12	21.26	21.31	
20	QPSK	50	50	21.09	21.17	21.04	21.28	21.26	
20	QPSK	100	0	21.08	21.19	21.09	21.29	21.31	21.6
20	16QAM	1	0	21.06	21.16	21.09	21.31	21.32	
20	16QAM	1	49	20.97	21.12	20.99	21.15	21.28	
20	16QAM	1	99	20.98	21.09	20.93	21.05	21.21	21.6
20	16QAM	50	0	21.15	21.29	21.20	21.28	21.33	
20	16QAM	50	24	21.16	21.26	21.18	21.37	21.37	
20	16QAM	50	50	21.14	21.24	21.12	21.33	21.34	21.6
20	16QAM	100	0	21.12	21.25	21.15	21.36	21.28	
20	64QAM	1	0	20.85	21.02	20.95	21.09	21.21	
20	64QAM	1	49	20.78	20.93	20.82	20.96	21.13	21.6
20	64QAM	1	99	20.84	20.92	20.79	20.89	21.08	
20	64QAM	50	0	21.11	21.26	21.18	21.33	21.29	
20	64QAM	50	24	21.11	21.22	21.15	21.29	21.34	21.6
20	64QAM	50	50	21.11	21.21	21.09	21.29	21.33	
20	64QAM	100	0	21.10	21.21	21.12	21.30	21.16	
20	256QAM	1	0	20.85	21.16	21.05	21.27	21.16	21.6
20	256QAM	1	49	20.82	20.79	20.92	21.10	21.08	
20	256QAM	1	99	20.81	20.81	20.81	20.91	21.11	
20	256QAM	50	0	20.87	21.10	20.97	21.22	21.26	21.6
20	256QAM	50	24	20.86	21.12	21.01	21.08	21.21	
20	256QAM	50	50	20.92	20.98	20.86	21.06	21.01	
20	256QAM	100	0	20.86	21.13	21.01	20.98	21.09	Tune-up limit (dBm)
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	21.60
15	QPSK	1	0	21.05	21.02	20.97	21.16	21.22	
15	QPSK	1	37	20.96	20.97	20.81	21.17	21.21	21.6
15	QPSK	1	74	20.86	20.98	20.77	21.11	21.22	
15	QPSK	36	0	20.96	21.12	21.10	21.26	21.36	
15	QPSK	36	20	20.99	21.16	21.08	21.14	21.31	21.6
15	QPSK	36	39	20.99	21.04	20.99	21.25	21.13	
15	QPSK	75	0	21.03	21.15	20.95	21.23	21.28	
15	16QAM	1	0	21.01	21.10	20.91	21.25	21.17	21.6
15	16QAM	1	37	20.87	21.09	20.83	21.00	21.17	
15	16QAM	1	74	20.95	20.92	20.90	20.95	21.07	
15	16QAM	36	0	21.12	21.25	21.17	21.08	21.24	21.6
15	16QAM	36	20	21.16	21.20	21.14	21.37	21.34	
15	16QAM	36	39	20.95	21.23	21.08	21.14	21.33	
15	16QAM	75	0	20.97	21.13	20.99	21.16	21.23	21.6
15	64QAM	1	0	20.85	21.00	20.94	21.06	21.08	
15	64QAM	1	37	20.71	20.90	20.73	20.96	21.08	
15	64QAM	1	74	20.71	20.89	20.78	20.89	20.93	21.6
15	64QAM	36	0	20.94	21.08	20.98	21.17	21.10	
15	64QAM	36	20	21.01	21.08	20.95	21.26	21.14	
15	64QAM	36	39	20.92	21.19	21.04	21.18	21.32	21.6
15	64QAM	75	0	21.05	21.08	21.07	21.16	21.05	
15	256QAM	1	0	20.85	20.98	20.97	21.15	21.04	
15	256QAM	1	37	20.64	20.72	20.75	21.07	21.06	21.6
15	256QAM	1	74	20.70	20.63	20.70	20.86	20.97	
15	256QAM	36	0	20.75	21.03	20.79	21.06	21.07	
15	256QAM	36	20	20.72	20.94	20.83	21.06	21.05	21.6
15	256QAM	36	39	20.90	20.87	20.83	21.03	21.00	



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Report No. : FA4N0920C

15	256QAM	75	0	20.76	21.01	20.91	20.88	21.04	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	20.86	21.14	20.95	21.08	21.23	21.60
10	QPSK	1	25	20.93	21.02	20.82	21.11	21.22	
10	QPSK	1	49	20.96	21.12	20.85	20.97	21.09	
10	QPSK	25	0	21.05	21.01	21.11	21.30	21.21	21.6
10	QPSK	25	12	20.99	21.10	21.07	21.10	21.24	
10	QPSK	25	25	21.05	21.17	20.98	21.17	21.17	
10	QPSK	50	0	20.93	21.02	21.01	21.25	21.23	
10	16QAM	1	0	20.87	21.05	21.03	21.18	21.26	21.6
10	16QAM	1	25	20.85	21.08	20.91	20.97	21.17	
10	16QAM	1	49	20.87	20.91	20.74	20.99	21.04	
10	16QAM	25	0	21.09	21.27	21.15	21.13	21.22	21.6
10	16QAM	25	12	21.03	21.16	20.99	21.29	21.36	
10	16QAM	25	25	21.06	21.12	20.97	21.19	21.18	
10	16QAM	50	0	21.02	21.13	21.00	21.19	21.28	
10	64QAM	1	0	20.68	20.83	20.95	21.09	21.04	21.6
10	64QAM	1	25	20.61	20.86	20.62	20.95	21.05	
10	64QAM	1	49	20.70	20.86	20.78	20.85	21.05	
10	64QAM	25	0	21.04	21.26	21.17	21.33	21.28	21.6
10	64QAM	25	12	20.95	21.07	21.09	21.12	21.15	
10	64QAM	25	25	21.00	21.13	21.09	21.12	21.26	
10	64QAM	50	0	20.98	21.20	20.92	21.19	21.15	
10	256QAM	1	0	20.71	21.09	20.95	21.08	21.13	21.6
10	256QAM	1	25	20.81	20.77	20.90	20.99	20.95	
10	256QAM	1	49	20.70	20.68	20.69	20.72	20.94	
10	256QAM	25	0	20.78	21.00	20.91	21.16	21.22	21.6
10	256QAM	25	12	20.71	21.10	20.97	20.92	21.11	
10	256QAM	25	25	20.80	20.97	20.66	20.99	20.98	
10	256QAM	50	0	20.82	20.97	20.85	20.82	20.90	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	20.95	21.17	21.02	21.27	21.31	21.60
5	QPSK	1	12	20.80	20.98	20.84	21.11	21.12	
5	QPSK	1	24	20.91	21.04	20.92	21.06	21.05	
5	QPSK	12	0	21.02	21.16	21.11	21.25	21.28	21.6
5	QPSK	12	7	20.88	21.11	20.97	21.16	21.12	
5	QPSK	12	13	20.94	21.12	20.97	21.23	21.25	
5	QPSK	25	0	21.03	21.10	20.89	21.23	21.28	
5	16QAM	1	0	21.06	21.05	20.96	21.27	21.22	21.6
5	16QAM	1	12	20.93	20.97	20.96	21.01	21.27	
5	16QAM	1	24	20.78	21.04	20.74	20.90	21.09	
5	16QAM	12	0	21.14	21.15	21.09	21.20	21.15	21.6
5	16QAM	12	7	21.13	21.07	21.14	21.18	21.36	
5	16QAM	12	13	21.01	21.20	21.05	21.21	21.25	
5	16QAM	25	0	20.97	21.15	21.15	21.19	21.12	
5	64QAM	1	0	20.69	20.90	20.92	20.97	21.21	21.6
5	64QAM	1	12	20.60	20.80	20.75	20.88	20.96	
5	64QAM	1	24	20.65	20.75	20.59	20.74	20.95	
5	64QAM	12	0	20.92	21.17	20.98	21.29	21.22	21.6
5	64QAM	12	7	21.07	21.13	21.05	21.18	21.33	
5	64QAM	12	13	21.03	21.05	21.07	21.23	21.21	
5	64QAM	25	0	20.90	21.06	21.02	21.26	21.06	
5	256QAM	1	0	20.82	21.02	20.91	21.26	21.15	21.6
5	256QAM	1	12	20.71	20.61	20.82	21.00	21.08	
5	256QAM	1	24	20.65	20.66	20.74	20.72	20.98	
5	256QAM	12	0	20.86	20.95	20.79	21.06	21.06	21.6
5	256QAM	12	7	20.78	21.07	20.84	21.01	21.19	
5	256QAM	12	13	20.84	20.84	20.85	20.92	21.01	
5	256QAM	25	0	20.84	20.94	20.91	20.83	21.09	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	26.1
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.40	25.24	25.50	25.62	25.76	26.1
20	QPSK	1	49	25.35	25.14	25.38	25.52	25.65	
20	QPSK	1	99	25.33	25.22	25.36	25.50	25.61	
20	QPSK	50	0	25.30	25.01	24.99	25.36	25.44	26
20	QPSK	50	24	25.30	24.91	24.93	25.32	25.43	
20	QPSK	50	50	25.11	24.89	24.92	25.26	25.40	
20	QPSK	100	0	25.12	24.89	25.06	25.28	25.39	26
20	16QAM	1	0	25.23	25.04	25.35	25.50	25.53	
20	16QAM	1	49	25.12	24.91	25.30	25.41	25.44	
20	16QAM	1	99	25.19	25.08	25.20	25.36	25.54	25
20	16QAM	50	0	24.14	23.96	24.02	24.37	24.48	
20	16QAM	50	24	24.27	23.90	23.99	24.34	24.49	
20	16QAM	50	50	24.10	23.95	23.97	24.29	24.42	25
20	16QAM	100	0	24.11	23.84	24.07	24.38	24.44	
20	64QAM	1	0	23.99	23.84	23.99	24.18	24.45	
20	64QAM	1	49	24.09	23.78	24.03	24.17	24.29	24
20	64QAM	1	99	23.87	23.86	23.94	24.16	24.21	
20	64QAM	50	0	23.08	22.97	22.96	23.33	23.29	
20	64QAM	50	24	23.12	22.80	22.94	23.26	23.24	22
20	64QAM	50	50	23.13	22.93	22.85	23.20	23.25	
20	64QAM	100	0	23.15	22.76	23.03	23.27	23.34	
20	256QAM	1	0	21.19	21.01	21.02	21.26	21.48	22
20	256QAM	1	49	20.94	20.77	20.91	21.14	21.40	
20	256QAM	1	99	20.92	20.64	20.77	21.09	21.17	
20	256QAM	50	0	21.06	21.05	21.09	21.38	21.53	22
20	256QAM	50	24	21.12	20.85	20.96	21.18	21.39	
20	256QAM	50	50	21.00	20.90	20.97	21.26	21.45	
20	256QAM	100	0	20.99	20.93	20.97	21.24	21.46	Tune-up limit (dBm)
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	26.10
15	QPSK	1	0	25.34	25.05	25.32	25.50	25.61	
15	QPSK	1	37	25.18	25.07	25.19	25.50	25.61	26
15	QPSK	1	74	25.23	25.17	25.21	25.49	25.41	
15	QPSK	36	0	25.12	24.84	24.92	25.26	25.37	
15	QPSK	36	20	25.04	24.89	24.91	25.16	25.40	26
15	QPSK	36	39	25.03	24.78	24.85	25.33	25.18	
15	QPSK	75	0	25.07	24.80	24.92	25.26	25.37	
15	16QAM	1	0	24.92	24.87	25.41	25.52	25.46	26
15	16QAM	1	37	24.95	24.89	25.14	25.21	25.49	
15	16QAM	1	74	25.08	25.01	25.18	25.16	25.39	
15	16QAM	36	0	24.02	23.79	23.91	24.20	24.32	25
15	16QAM	36	20	24.09	23.99	24.00	24.18	24.12	
15	16QAM	36	39	23.89	23.99	23.85	24.06	24.26	
15	16QAM	75	0	23.96	23.87	23.81	24.21	24.17	25
15	64QAM	1	0	23.92	23.93	23.99	24.13	24.48	
15	64QAM	1	37	23.88	23.61	23.92	24.02	24.36	
15	64QAM	1	74	23.79	23.74	23.89	24.14	24.20	24
15	64QAM	36	0	23.03	22.73	22.92	23.12	23.31	
15	64QAM	36	20	22.87	22.65	22.65	23.08	23.30	
15	64QAM	36	39	22.92	22.67	22.74	23.22	23.23	22
15	64QAM	75	0	23.11	22.76	22.89	23.23	23.17	
15	256QAM	1	0	21.04	20.75	20.82	21.42	21.46	
15	256QAM	1	37	20.75	20.73	20.83	20.95	21.25	22
15	256QAM	1	74	20.66	20.64	20.83	21.03	21.21	
15	256QAM	36	0	20.98	20.87	21.06	21.16	21.37	
15	256QAM	36	20	20.93	20.91	21.02	21.05	21.23	22
15	256QAM	36	39	20.93	20.72	20.90	21.25	21.23	



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Report No. : FA4N0920C

15	256QAM	75	0	20.91	20.78	20.97	21.11	21.36	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	25.29	25.13	25.49	25.60	25.65	26.10
10	QPSK	1	25	25.35	25.10	25.21	25.36	25.65	
10	QPSK	1	49	25.30	25.12	25.16	25.30	25.54	
10	QPSK	25	0	24.99	24.81	24.90	25.19	25.48	26
10	QPSK	25	12	25.20	24.85	24.93	25.31	25.12	
10	QPSK	25	25	25.03	25.00	24.85	25.14	25.29	
10	QPSK	50	0	24.97	24.84	24.72	25.25	25.26	
10	16QAM	1	0	25.09	25.00	25.13	25.28	25.48	26
10	16QAM	1	25	25.22	24.70	25.06	25.18	25.36	
10	16QAM	1	49	25.08	24.82	25.23	25.28	25.44	
10	16QAM	25	0	24.07	23.91	24.08	24.09	24.37	25
10	16QAM	25	12	23.91	23.95	23.85	24.34	24.34	
10	16QAM	25	25	24.05	23.74	23.75	24.17	24.43	
10	16QAM	50	0	24.09	23.75	23.99	24.25	24.38	
10	64QAM	1	0	23.94	23.86	24.03	24.13	24.32	25
10	64QAM	1	25	23.76	23.59	23.79	23.89	24.20	
10	64QAM	1	49	23.90	23.62	23.77	23.89	24.13	
10	64QAM	25	0	23.05	22.66	23.03	23.16	23.20	24
10	64QAM	25	12	22.96	22.76	22.83	23.07	23.27	
10	64QAM	25	25	23.08	22.73	22.88	23.04	23.33	
10	64QAM	50	0	22.98	22.65	22.73	23.18	23.05	
10	256QAM	1	0	21.06	20.88	20.81	21.13	21.50	22
10	256QAM	1	25	20.91	20.72	20.87	20.96	21.28	
10	256QAM	1	49	20.89	20.66	20.82	21.00	21.07	
10	256QAM	25	0	21.13	20.97	20.86	21.25	21.28	22
10	256QAM	25	12	21.05	20.82	20.89	21.15	21.30	
10	256QAM	25	25	20.82	20.63	21.02	21.32	21.30	
10	256QAM	50	0	20.90	20.82	20.88	21.05	21.40	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	25.33	25.17	25.34	25.44	25.70	26.10
5	QPSK	1	12	25.28	25.09	25.31	25.50	25.58	
5	QPSK	1	24	25.32	25.02	25.36	25.40	25.59	
5	QPSK	12	0	25.22	24.97	25.02	25.12	25.40	26
5	QPSK	12	7	25.06	24.81	24.93	25.13	25.19	
5	QPSK	12	13	25.08	24.75	24.81	25.24	25.31	
5	QPSK	25	0	25.01	24.84	24.97	25.27	25.32	
5	16QAM	1	0	24.96	24.99	25.28	25.46	25.43	26
5	16QAM	1	12	24.92	24.98	25.16	25.13	25.43	
5	16QAM	1	24	24.97	24.83	25.06	25.32	25.34	
5	16QAM	12	0	24.04	23.76	23.88	24.20	24.49	25
5	16QAM	12	7	24.12	23.93	24.06	24.12	24.24	
5	16QAM	12	13	24.01	23.84	23.92	24.20	24.31	
5	16QAM	25	0	24.00	23.72	23.91	24.24	24.27	
5	64QAM	1	0	24.00	23.80	23.89	24.17	24.27	25
5	64QAM	1	12	23.92	23.63	23.87	23.96	24.35	
5	64QAM	1	24	23.94	23.66	23.70	24.00	24.05	
5	64QAM	12	0	23.03	22.75	22.89	23.11	23.35	24
5	64QAM	12	7	22.89	22.85	22.91	22.98	23.20	
5	64QAM	12	13	22.94	22.65	22.90	23.17	23.15	
5	64QAM	25	0	22.86	22.90	22.88	23.12	23.11	
5	256QAM	1	0	21.14	20.88	20.95	21.22	21.28	22
5	256QAM	1	12	20.90	20.66	20.77	20.96	21.16	
5	256QAM	1	24	20.79	20.58	20.73	20.97	21.05	
5	256QAM	12	0	21.15	20.82	20.93	21.11	21.31	22
5	256QAM	12	7	20.97	20.88	20.78	21.15	21.24	
5	256QAM	12	13	20.83	20.76	21.09	21.19	21.23	
5	256QAM	25	0	20.97	20.59	20.83	21.10	21.39	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.11	24.26	24.33	24.21	24.63	25.5
20	QPSK	1	49	24.07	24.25	24.27	24.08	24.52	
20	QPSK	1	99	23.99	24.25	24.16	24.01	24.49	
20	QPSK	50	0	24.26	24.31	24.37	24.34	24.55	25.5
20	QPSK	50	24	24.19	24.26	24.33	24.27	24.54	
20	QPSK	50	50	24.19	24.27	24.26	24.26	24.53	
20	QPSK	100	0	24.18	24.34	24.30	24.29	24.58	25.5
20	16QAM	1	0	24.12	24.29	24.39	24.16	24.57	
20	16QAM	1	49	24.07	24.32	24.34	24.11	24.55	
20	16QAM	1	99	24.12	24.34	24.19	24.06	24.58	25
20	16QAM	50	0	23.72	23.86	23.91	23.83	24.14	
20	16QAM	50	24	23.66	23.89	23.88	23.76	24.12	
20	16QAM	50	50	23.63	23.88	23.80	23.75	24.12	25
20	16QAM	100	0	23.66	23.85	23.84	23.77	24.09	
20	64QAM	1	0	23.63	23.76	23.93	23.74	24.09	
20	64QAM	1	49	23.62	23.77	23.83	23.64	24.03	24
20	64QAM	1	99	23.56	23.79	23.72	23.53	24.03	
20	64QAM	50	0	22.64	22.80	22.88	22.77	23.06	
20	64QAM	50	24	22.62	22.83	22.83	22.71	23.09	22
20	64QAM	50	50	22.61	22.87	22.75	22.67	23.10	
20	64QAM	100	0	22.63	22.82	22.82	22.73	23.07	
20	256QAM	1	0	20.73	20.90	20.97	20.98	21.19	22
20	256QAM	1	49	20.78	20.70	20.89	20.85	21.09	
20	256QAM	1	99	20.64	20.64	20.67	20.74	20.95	
20	256QAM	50	0	20.78	20.92	21.07	21.01	21.24	22
20	256QAM	50	24	20.88	20.83	20.93	20.94	21.21	
20	256QAM	50	50	20.77	20.82	20.83	20.75	21.08	
20	256QAM	100	0	20.63	20.69	20.95	20.91	20.95	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	24.03	24.09	24.29	24.07	24.44	25.50
15	QPSK	1	37	23.89	24.23	24.10	23.96	24.49	
15	QPSK	1	74	23.84	24.23	24.16	23.87	24.41	
15	QPSK	36	0	24.16	24.31	24.23	24.19	24.54	25.5
15	QPSK	36	20	24.17	24.08	24.30	24.09	24.43	
15	QPSK	36	39	24.16	24.24	24.25	24.11	24.44	
15	QPSK	75	0	24.10	24.18	24.22	24.20	24.43	25.5
15	16QAM	1	0	24.04	24.20	24.30	23.97	24.51	
15	16QAM	1	37	23.95	24.12	24.30	23.98	24.53	
15	16QAM	1	74	23.99	24.23	24.16	24.04	24.41	25
15	16QAM	36	0	23.66	23.66	23.82	23.66	24.12	
15	16QAM	36	20	23.64	23.85	23.85	23.57	24.07	
15	16QAM	36	39	23.56	23.79	23.64	23.56	24.09	25
15	16QAM	75	0	23.52	23.67	23.79	23.69	24.02	
15	64QAM	1	0	23.52	23.74	23.89	23.71	24.03	
15	64QAM	1	37	23.48	23.66	23.69	23.63	23.96	24
15	64QAM	1	74	23.37	23.72	23.59	23.41	23.87	
15	64QAM	36	0	22.49	22.70	22.73	22.75	22.98	
15	64QAM	36	20	22.53	22.75	22.83	22.67	22.91	22
15	64QAM	36	39	22.49	22.80	22.63	22.58	22.94	
15	64QAM	75	0	22.50	22.74	22.76	22.71	22.90	
15	256QAM	1	0	20.60	20.85	20.88	20.90	21.06	22
15	256QAM	1	37	20.74	20.62	20.74	20.70	20.91	
15	256QAM	1	74	20.59	20.57	20.60	20.56	20.81	
15	256QAM	36	0	20.62	20.76	20.96	20.87	21.05	22
15	256QAM	36	20	20.73	20.81	20.78	20.76	21.20	
15	256QAM	36	39	20.72	20.80	20.68	20.74	21.05	



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15	256QAM	75	0	20.63	20.61	20.83	20.84	20.80	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	23.95	24.12	24.15	24.07	24.62	25.50
10	QPSK	1	25	23.99	24.09	24.23	23.90	24.48	
10	QPSK	1	49	23.83	24.19	24.11	23.93	24.30	
10	QPSK	25	0	24.16	24.28	24.29	24.29	24.41	25.5
10	QPSK	25	12	24.15	24.18	24.28	24.14	24.35	
10	QPSK	25	25	24.00	24.14	24.09	24.08	24.34	
10	QPSK	50	0	24.00	24.25	24.12	24.21	24.51	
10	16QAM	1	0	24.12	24.20	24.21	24.13	24.39	25.5
10	16QAM	1	25	24.00	24.27	24.17	24.06	24.55	
10	16QAM	1	49	24.05	24.33	24.14	23.98	24.45	
10	16QAM	25	0	23.56	23.80	23.71	23.71	24.04	25
10	16QAM	25	12	23.48	23.79	23.76	23.61	23.95	
10	16QAM	25	25	23.54	23.71	23.70	23.56	23.93	
10	16QAM	50	0	23.66	23.77	23.78	23.71	23.96	
10	64QAM	1	0	23.49	23.64	23.91	23.73	23.97	25
10	64QAM	1	25	23.59	23.57	23.76	23.55	24.01	
10	64QAM	1	49	23.36	23.77	23.67	23.39	23.90	
10	64QAM	25	0	22.53	22.73	22.68	22.69	22.96	24
10	64QAM	25	12	22.60	22.68	22.68	22.53	23.03	
10	64QAM	25	25	22.52	22.68	22.66	22.67	23.09	
10	64QAM	50	0	22.58	22.75	22.68	22.61	22.92	
10	256QAM	1	0	20.66	20.87	20.77	20.80	21.16	22
10	256QAM	1	25	20.60	20.66	20.89	20.78	21.00	
10	256QAM	1	49	20.51	20.48	20.49	20.68	20.91	
10	256QAM	25	0	20.67	20.84	20.97	20.98	21.15	22
10	256QAM	25	12	20.71	20.83	20.87	20.81	21.01	
10	256QAM	25	25	20.67	20.70	20.81	20.63	21.04	
10	256QAM	50	0	20.49	20.61	20.95	20.76	20.78	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	24.07	24.17	24.26	24.14	24.43	25.50
5	QPSK	1	12	24.07	24.06	24.15	23.94	24.36	
5	QPSK	1	24	23.94	24.21	24.06	23.90	24.48	
5	QPSK	12	0	24.16	24.22	24.35	24.29	24.42	25.5
5	QPSK	12	7	24.16	24.15	24.28	24.11	24.53	
5	QPSK	12	13	24.13	24.18	24.06	24.17	24.49	
5	QPSK	25	0	24.11	24.30	24.28	24.17	24.57	
5	16QAM	1	0	23.97	24.10	24.27	24.08	24.54	25.5
5	16QAM	1	12	23.88	24.21	24.18	23.91	24.52	
5	16QAM	1	24	23.96	24.23	24.09	23.94	24.51	
5	16QAM	12	0	23.72	23.82	23.89	23.72	24.09	25
5	16QAM	12	7	23.50	23.70	23.73	23.63	23.96	
5	16QAM	12	13	23.53	23.72	23.64	23.55	24.12	
5	16QAM	25	0	23.46	23.74	23.66	23.60	24.06	
5	64QAM	1	0	23.46	23.71	23.86	23.54	24.02	25
5	64QAM	1	12	23.51	23.63	23.80	23.49	24.03	
5	64QAM	1	24	23.46	23.62	23.72	23.34	24.01	
5	64QAM	12	0	22.63	22.64	22.83	22.63	22.98	24
5	64QAM	12	7	22.58	22.65	22.81	22.70	23.00	
5	64QAM	12	13	22.60	22.69	22.72	22.53	23.06	
5	64QAM	25	0	22.52	22.62	22.68	22.72	22.95	
5	256QAM	1	0	20.67	20.90	20.97	20.97	21.05	22
5	256QAM	1	12	20.67	20.61	20.88	20.65	20.95	
5	256QAM	1	24	20.46	20.62	20.50	20.63	20.93	
5	256QAM	12	0	20.70	20.73	20.92	20.94	21.23	22
5	256QAM	12	7	20.82	20.66	20.79	20.82	21.13	
5	256QAM	12	13	20.64	20.69	20.67	20.58	20.89	
5	256QAM	25	0	20.53	20.51	20.87	20.71	20.92	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.63	25.77	25.88	25.85	25.89	27
20	QPSK	1	49	25.51	25.73	25.76	25.69	25.61	
20	QPSK	1	99	25.53	25.81	25.72	25.64	25.82	
20	QPSK	50	0	24.84	24.96	24.89	25.02	24.98	26
20	QPSK	50	24	24.77	24.90	24.85	24.96	24.97	
20	QPSK	50	50	24.71	24.90	24.82	24.87	24.97	
20	QPSK	100	0	24.71	24.89	24.86	24.94	24.97	
20	16QAM	1	0	24.82	25.07	25.13	25.12	25.16	26
20	16QAM	1	49	24.75	24.99	25.00	24.92	25.14	
20	16QAM	1	99	24.74	25.07	24.97	24.86	25.05	
20	16QAM	50	0	23.77	23.91	23.90	23.98	23.98	25
20	16QAM	50	24	23.72	23.90	23.87	23.92	23.98	
20	16QAM	50	50	23.68	23.91	23.83	23.85	23.97	
20	16QAM	100	0	23.70	23.88	23.85	23.90	23.97	
20	64QAM	1	0	23.67	23.83	23.94	23.95	23.98	25
20	64QAM	1	49	23.57	23.79	23.83	23.76	23.88	
20	64QAM	1	99	23.58	23.85	23.80	23.66	23.88	
20	64QAM	50	0	22.74	22.87	22.88	22.93	22.92	
20	64QAM	50	24	22.68	22.84	22.83	22.85	22.91	24
20	64QAM	50	50	22.66	22.86	22.79	22.82	22.94	
20	64QAM	100	0	22.68	22.85	22.82	22.84	22.93	
20	256QAM	1	0	20.74	20.80	20.78	20.94	20.88	22
20	256QAM	1	49	20.67	20.66	20.72	20.79	20.80	
20	256QAM	1	99	20.57	20.62	20.62	20.76	20.65	
20	256QAM	50	0	20.77	20.84	20.89	20.95	20.92	22
20	256QAM	50	24	20.74	20.75	20.81	20.90	20.90	
20	256QAM	50	50	20.70	20.80	20.79	20.94	20.83	
20	256QAM	100	0	20.67	20.75	20.76	20.86	20.81	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	25.44	25.58	25.78	25.65	25.69	27.00
15	QPSK	1	37	25.49	25.54	25.74	25.57	25.52	
15	QPSK	1	74	25.37	25.63	25.64	25.58	25.79	
15	QPSK	36	0	24.70	24.85	24.81	24.89	24.78	26
15	QPSK	36	20	24.71	24.79	24.72	24.91	24.96	
15	QPSK	36	39	24.66	24.79	24.76	24.71	24.93	
15	QPSK	75	0	24.63	24.70	24.71	24.74	24.87	
15	16QAM	1	0	24.79	24.93	25.05	25.10	25.13	26
15	16QAM	1	37	24.64	24.81	24.86	24.83	25.01	
15	16QAM	1	74	24.56	25.05	24.84	24.66	24.98	
15	16QAM	36	0	23.72	23.71	23.73	23.96	23.93	25
15	16QAM	36	20	23.67	23.89	23.67	23.80	23.90	
15	16QAM	36	39	23.55	23.79	23.77	23.82	23.80	
15	16QAM	75	0	23.60	23.71	23.85	23.83	23.93	
15	64QAM	1	0	23.62	23.72	23.82	23.77	23.84	25
15	64QAM	1	37	23.48	23.61	23.81	23.63	23.86	
15	64QAM	1	74	23.40	23.79	23.80	23.63	23.85	
15	64QAM	36	0	22.55	22.75	22.71	22.92	22.77	24
15	64QAM	36	20	22.52	22.82	22.63	22.83	22.77	
15	64QAM	36	39	22.64	22.68	22.59	22.78	22.90	
15	64QAM	75	0	22.53	22.67	22.73	22.80	22.82	
15	256QAM	1	0	20.65	20.79	20.66	20.93	20.78	22
15	256QAM	1	37	20.48	20.66	20.63	20.73	20.78	
15	256QAM	1	74	20.54	20.60	20.52	20.72	20.60	
15	256QAM	36	0	20.72	20.77	20.82	20.78	20.88	22
15	256QAM	36	20	20.68	20.69	20.81	20.74	20.81	
15	256QAM	36	39	20.62	20.63	20.77	20.88	20.65	



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15	256QAM	75	0	20.49	20.64	20.61	20.81	20.61	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	25.59	25.76	25.78	25.70	25.85	27.00
10	QPSK	1	25	25.51	25.69	25.73	25.62	25.43	
10	QPSK	1	49	25.36	25.62	25.59	25.53	25.81	
10	QPSK	25	0	24.82	24.80	24.83	24.97	24.84	26
10	QPSK	25	12	24.59	24.72	24.65	24.89	24.95	
10	QPSK	25	25	24.58	24.90	24.78	24.68	24.85	
10	QPSK	50	0	24.67	24.70	24.83	24.84	24.88	
10	16QAM	1	0	24.72	25.03	25.05	24.93	25.00	26
10	16QAM	1	25	24.60	24.92	24.99	24.82	25.02	
10	16QAM	1	49	24.59	25.03	24.97	24.81	24.99	
10	16QAM	25	0	23.61	23.84	23.77	23.97	23.85	25
10	16QAM	25	12	23.66	23.90	23.85	23.73	23.81	
10	16QAM	25	25	23.54	23.82	23.63	23.70	23.81	
10	16QAM	50	0	23.66	23.68	23.81	23.80	23.80	
10	64QAM	1	0	23.56	23.81	23.91	23.93	23.80	25
10	64QAM	1	25	23.48	23.70	23.73	23.76	23.80	
10	64QAM	1	49	23.49	23.82	23.75	23.66	23.73	
10	64QAM	25	0	22.71	22.68	22.73	22.76	22.82	24
10	64QAM	25	12	22.55	22.74	22.79	22.72	22.84	
10	64QAM	25	25	22.51	22.80	22.65	22.63	22.92	
10	64QAM	50	0	22.50	22.76	22.75	22.79	22.78	
10	256QAM	1	0	20.64	20.74	20.72	20.86	20.84	22
10	256QAM	1	25	20.61	20.46	20.53	20.71	20.63	
10	256QAM	1	49	20.56	20.47	20.55	20.65	20.53	
10	256QAM	25	0	20.68	20.81	20.71	20.82	20.83	22
10	256QAM	25	12	20.56	20.70	20.76	20.82	20.70	
10	256QAM	25	25	20.64	20.71	20.68	20.84	20.68	
10	256QAM	50	0	20.56	20.69	20.59	20.67	20.78	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	25.63	25.63	25.83	25.69	25.79	27.00
5	QPSK	1	12	25.36	25.69	25.56	25.56	25.55	
5	QPSK	1	24	25.52	25.68	25.61	25.48	25.74	
5	QPSK	12	0	24.64	24.93	24.74	24.92	24.92	26
5	QPSK	12	7	24.65	24.87	24.79	24.95	24.87	
5	QPSK	12	13	24.60	24.76	24.74	24.70	24.85	
5	QPSK	25	0	24.64	24.81	24.70	24.85	24.88	
5	16QAM	1	0	24.63	24.88	24.93	25.07	24.97	26
5	16QAM	1	12	24.60	24.93	24.90	24.86	25.00	
5	16QAM	1	24	24.62	24.97	24.88	24.81	25.01	
5	16QAM	12	0	23.68	23.86	23.85	23.94	23.79	25
5	16QAM	12	7	23.59	23.86	23.85	23.79	23.95	
5	16QAM	12	13	23.58	23.72	23.66	23.84	23.96	
5	16QAM	25	0	23.57	23.76	23.73	23.83	23.91	
5	64QAM	1	0	23.65	23.66	23.74	23.90	23.91	25
5	64QAM	1	12	23.46	23.59	23.77	23.74	23.73	
5	64QAM	1	24	23.38	23.85	23.78	23.48	23.85	
5	64QAM	12	0	22.71	22.73	22.77	22.91	22.92	24
5	64QAM	12	7	22.54	22.75	22.72	22.82	22.80	
5	64QAM	12	13	22.66	22.79	22.73	22.62	22.94	
5	64QAM	25	0	22.56	22.65	22.63	22.84	22.88	
5	256QAM	1	0	20.58	20.80	20.78	20.85	20.81	22
5	256QAM	1	12	20.50	20.58	20.65	20.76	20.60	
5	256QAM	1	24	20.53	20.50	20.53	20.63	20.47	
5	256QAM	12	0	20.61	20.80	20.72	20.77	20.87	22
5	256QAM	12	7	20.55	20.67	20.81	20.78	20.82	
5	256QAM	12	13	20.58	20.74	20.62	20.90	20.70	
5	256QAM	25	0	20.63	20.60	20.75	20.82	20.75	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	19.66	19.78	19.74	19.89	19.93	20.8
20	QPSK	1	49	19.59	19.70	19.59	19.73	19.82	
20	QPSK	1	99	19.67	19.69	19.56	19.72	19.82	
20	QPSK	50	0	19.64	19.74	19.70	19.86	19.90	20.8
20	QPSK	50	24	19.63	19.73	19.64	19.84	19.83	
20	QPSK	50	50	19.63	19.72	19.58	19.82	19.79	
20	QPSK	100	0	19.62	19.71	19.64	19.84	19.85	
20	16QAM	1	0	19.75	19.86	19.81	19.87	19.90	20.8
20	16QAM	1	49	19.65	19.80	19.65	19.82	19.91	
20	16QAM	1	99	19.69	19.80	19.60	19.81	19.86	
20	16QAM	50	0	19.70	19.83	19.74	19.89	19.84	20.8
20	16QAM	50	24	19.67	19.79	19.71	19.89	19.92	
20	16QAM	50	50	19.66	19.77	19.64	19.84	19.87	
20	16QAM	100	0	19.67	19.77	19.69	19.87	19.89	
20	64QAM	1	0	19.38	19.51	19.47	19.61	19.69	20.8
20	64QAM	1	49	19.37	19.52	19.39	19.60	19.64	
20	64QAM	1	99	19.33	19.44	19.26	19.46	19.48	
20	64QAM	50	0	19.69	19.84	19.76	19.92	19.88	20.8
20	64QAM	50	24	19.67	19.79	19.71	19.87	19.92	
20	64QAM	50	50	19.67	19.77	19.65	19.84	19.89	
20	64QAM	100	0	19.69	19.80	19.68	19.85	19.91	
20	256QAM	1	0	18.85	18.96	18.89	19.08	19.23	20
20	256QAM	1	49	18.71	18.77	18.83	19.01	19.11	
20	256QAM	1	99	18.59	18.73	18.84	18.85	18.91	
20	256QAM	50	0	19.16	19.21	19.32	19.41	19.45	20
20	256QAM	50	24	19.10	19.16	19.12	19.19	19.34	
20	256QAM	50	50	18.95	18.97	19.07	19.14	19.31	
20	256QAM	100	0	18.95	19.09	19.20	19.23	19.38	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	19.62	19.71	19.74	19.74	19.90	20.80
15	QPSK	1	37	19.59	19.60	19.53	19.68	19.62	
15	QPSK	1	74	19.67	19.64	19.41	19.72	19.74	
15	QPSK	36	0	19.62	19.55	19.69	19.77	19.80	20.8
15	QPSK	36	20	19.57	19.59	19.60	19.71	19.72	
15	QPSK	36	39	19.48	19.60	19.46	19.70	19.60	
15	QPSK	75	0	19.54	19.67	19.49	19.81	19.76	
15	16QAM	1	0	19.70	19.80	19.74	19.75	19.75	20.8
15	16QAM	1	37	19.47	19.60	19.63	19.62	19.90	
15	16QAM	1	74	19.63	19.78	19.40	19.77	19.70	
15	16QAM	36	0	19.70	19.65	19.55	19.77	19.76	20.8
15	16QAM	36	20	19.53	19.73	19.54	19.74	19.77	
15	16QAM	36	39	19.46	19.63	19.64	19.67	19.68	
15	16QAM	75	0	19.62	19.67	19.61	19.78	19.69	
15	64QAM	1	0	19.24	19.48	19.34	19.52	19.63	20.8
15	64QAM	1	37	19.28	19.33	19.39	19.43	19.51	
15	64QAM	1	74	19.30	19.29	19.21	19.28	19.35	
15	64QAM	36	0	19.69	19.67	19.73	19.77	19.82	20.8
15	64QAM	36	20	19.56	19.63	19.53	19.81	19.87	
15	64QAM	36	39	19.65	19.71	19.48	19.64	19.77	
15	64QAM	75	0	19.69	19.78	19.63	19.77	19.88	
15	256QAM	1	0	18.68	18.86	18.75	18.91	19.20	20
15	256QAM	1	37	18.61	18.68	18.63	18.81	19.05	
15	256QAM	1	74	18.59	18.67	18.64	18.81	18.87	
15	256QAM	36	0	19.03	19.09	19.29	19.37	19.39	20
15	256QAM	36	20	18.96	19.01	18.98	19.04	19.32	
15	256QAM	36	39	18.75	18.88	19.02	19.09	19.22	



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15	256QAM	75	0	18.83	18.90	19.00	19.06	19.19	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	19.51	19.72	19.63	19.79	19.90	20.80
10	QPSK	1	25	19.40	19.65	19.57	19.55	19.79	
10	QPSK	1	49	19.53	19.66	19.39	19.65	19.80	
10	QPSK	25	0	19.64	19.65	19.54	19.83	19.89	20.8
10	QPSK	25	12	19.54	19.70	19.53	19.70	19.77	
10	QPSK	25	25	19.51	19.53	19.55	19.80	19.70	
10	QPSK	50	0	19.47	19.61	19.56	19.80	19.73	
10	16QAM	1	0	19.62	19.74	19.61	19.72	19.75	20.8
10	16QAM	1	25	19.52	19.76	19.49	19.74	19.71	
10	16QAM	1	49	19.65	19.72	19.45	19.74	19.81	
10	16QAM	25	0	19.59	19.70	19.65	19.72	19.74	20.8
10	16QAM	25	12	19.61	19.62	19.58	19.81	19.72	
10	16QAM	25	25	19.60	19.63	19.45	19.79	19.81	
10	16QAM	50	0	19.47	19.63	19.56	19.80	19.80	
10	64QAM	1	0	19.28	19.42	19.42	19.60	19.62	20.8
10	64QAM	1	25	19.35	19.41	19.30	19.40	19.48	
10	64QAM	1	49	19.32	19.27	19.06	19.31	19.30	
10	64QAM	25	0	19.56	19.80	19.59	19.87	19.88	20.8
10	64QAM	25	12	19.58	19.68	19.70	19.85	19.73	
10	64QAM	25	25	19.63	19.67	19.51	19.70	19.82	
10	64QAM	50	0	19.68	19.65	19.54	19.76	19.77	
10	256QAM	1	0	18.83	18.80	18.87	19.05	19.06	20
10	256QAM	1	25	18.69	18.74	18.72	18.87	19.03	
10	256QAM	1	49	18.42	18.65	18.70	18.82	18.76	
10	256QAM	25	0	19.11	19.18	19.29	19.28	19.41	20
10	256QAM	25	12	18.91	19.13	19.10	19.03	19.19	
10	256QAM	25	25	18.79	18.79	18.92	19.07	19.23	
10	256QAM	50	0	18.84	19.02	19.07	19.21	19.18	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	19.56	19.60	19.61	19.80	19.77	20.80
5	QPSK	1	12	19.48	19.56	19.55	19.53	19.69	
5	QPSK	1	24	19.57	19.59	19.38	19.70	19.77	
5	QPSK	12	0	19.47	19.59	19.60	19.85	19.84	20.8
5	QPSK	12	7	19.49	19.58	19.56	19.68	19.79	
5	QPSK	12	13	19.61	19.69	19.49	19.74	19.76	
5	QPSK	25	0	19.46	19.54	19.60	19.77	19.75	
5	16QAM	1	0	19.75	19.85	19.72	19.74	19.73	20.8
5	16QAM	1	12	19.62	19.75	19.59	19.68	19.86	
5	16QAM	1	24	19.64	19.79	19.56	19.62	19.85	
5	16QAM	12	0	19.55	19.72	19.63	19.78	19.76	20.8
5	16QAM	12	7	19.64	19.79	19.61	19.83	19.78	
5	16QAM	12	13	19.59	19.60	19.53	19.76	19.84	
5	16QAM	25	0	19.58	19.70	19.49	19.76	19.82	
5	64QAM	1	0	19.28	19.44	19.46	19.46	19.69	20.8
5	64QAM	1	12	19.31	19.52	19.26	19.40	19.59	
5	64QAM	1	24	19.18	19.31	19.20	19.40	19.35	
5	64QAM	12	0	19.55	19.78	19.65	19.72	19.78	20.8
5	64QAM	12	7	19.66	19.77	19.52	19.75	19.76	
5	64QAM	12	13	19.64	19.69	19.52	19.75	19.83	
5	64QAM	25	0	19.63	19.62	19.61	19.70	19.81	
5	256QAM	1	0	18.70	18.88	18.87	18.88	19.08	20
5	256QAM	1	12	18.65	18.61	18.74	18.96	19.05	
5	256QAM	1	24	18.46	18.53	18.75	18.66	18.76	
5	256QAM	12	0	19.16	19.21	19.18	19.23	19.25	20
5	256QAM	12	7	18.99	19.00	18.99	19.19	19.31	
5	256QAM	12	13	18.93	18.93	19.00	19.09	19.27	
5	256QAM	25	0	18.77	19.04	19.15	19.22	19.27	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.72	23.55	23.63	23.90	24.03	25
20	QPSK	1	49	23.72	23.43	23.58	23.85	23.98	
20	QPSK	1	99	23.63	23.44	23.54	23.81	23.92	
20	QPSK	50	0	23.28	23.08	23.08	23.45	23.46	24
20	QPSK	50	24	23.23	23.07	23.04	23.27	23.44	
20	QPSK	50	50	23.27	22.88	23.08	23.44	23.44	
20	QPSK	100	0	23.22	23.06	23.03	23.45	23.46	
20	16QAM	1	0	23.31	23.21	23.36	23.55	23.67	24
20	16QAM	1	49	23.17	23.10	23.14	23.29	23.52	
20	16QAM	1	99	23.22	22.93	23.17	23.39	23.62	
20	16QAM	50	0	22.20	22.05	22.12	22.34	22.51	23
20	16QAM	50	24	22.36	21.94	22.06	22.38	22.54	
20	16QAM	50	50	22.33	22.07	22.11	22.27	22.54	
20	16QAM	100	0	22.28	22.06	22.07	22.39	22.40	
20	64QAM	1	0	21.92	21.74	21.86	22.12	22.15	23
20	64QAM	1	49	21.99	21.69	21.85	21.97	22.07	
20	64QAM	1	99	21.85	21.57	21.66	21.89	22.02	
20	64QAM	50	0	21.30	20.98	21.10	21.49	21.51	22
20	64QAM	50	24	21.30	20.90	21.08	21.27	21.37	
20	64QAM	50	50	21.30	20.93	21.00	21.32	21.40	
20	64QAM	100	0	21.27	21.00	21.07	21.38	21.44	
20	256QAM	1	0	19.04	18.82	18.90	19.31	19.30	20
20	256QAM	1	49	18.97	18.73	18.83	19.25	19.24	
20	256QAM	1	99	18.77	18.58	18.87	19.04	19.09	
20	256QAM	50	0	19.19	19.07	19.19	19.39	19.46	20
20	256QAM	50	24	19.17	18.94	19.06	19.50	19.42	
20	256QAM	50	50	19.07	19.02	19.16	19.26	19.47	
20	256QAM	100	0	19.23	19.09	19.19	19.28	19.34	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	23.68	23.40	23.55	23.86	23.85	25.00
15	QPSK	1	37	23.68	23.34	23.39	23.76	23.81	
15	QPSK	1	74	23.47	23.30	23.35	23.80	23.72	
15	QPSK	36	0	23.22	22.82	23.01	23.32	23.32	24
15	QPSK	36	20	23.11	22.83	22.89	23.33	23.53	
15	QPSK	36	39	23.17	22.82	23.02	23.24	23.37	
15	QPSK	75	0	23.23	22.91	22.84	23.22	23.29	
15	16QAM	1	0	23.23	22.98	23.25	23.51	23.62	24
15	16QAM	1	37	23.23	23.01	23.09	23.22	23.37	
15	16QAM	1	74	23.16	23.10	22.98	23.10	23.53	
15	16QAM	36	0	22.16	21.79	21.88	22.44	22.27	23
15	16QAM	36	20	22.24	22.08	22.02	22.36	22.48	
15	16QAM	36	39	22.06	21.97	22.01	22.20	22.36	
15	16QAM	75	0	22.14	21.95	22.09	22.45	22.29	
15	64QAM	1	0	21.75	21.65	21.85	22.08	22.20	23
15	64QAM	1	37	21.90	21.43	21.54	21.81	22.18	
15	64QAM	1	74	21.63	21.53	21.56	21.76	22.06	
15	64QAM	36	0	21.35	21.08	21.05	21.32	21.27	22
15	64QAM	36	20	21.19	20.86	20.97	21.24	21.52	
15	64QAM	36	39	21.29	20.91	20.83	21.34	21.49	
15	64QAM	75	0	21.04	20.98	20.96	21.17	21.32	
15	256QAM	1	0	18.95	18.71	18.74	19.17	19.14	20
15	256QAM	1	37	18.69	18.61	18.65	19.16	18.91	
15	256QAM	1	74	18.65	18.56	18.73	19.11	19.02	
15	256QAM	36	0	19.17	18.81	19.04	19.30	19.38	20
15	256QAM	36	20	18.99	18.92	19.03	19.35	19.35	
15	256QAM	36	39	19.03	18.73	18.98	19.33	19.19	



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15	256QAM	75	0	18.95	18.92	19.09	19.26	19.41	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	23.52	23.51	23.50	23.77	23.98	25.00
10	QPSK	1	25	23.56	23.23	23.54	23.69	23.93	
10	QPSK	1	49	23.62	23.26	23.41	23.65	23.75	
10	QPSK	25	0	23.02	22.93	23.13	23.37	23.38	24
10	QPSK	25	12	23.19	22.95	22.87	23.37	23.34	
10	QPSK	25	25	23.08	23.01	22.94	23.25	23.29	
10	QPSK	50	0	23.20	22.88	23.03	23.17	23.41	
10	16QAM	1	0	23.35	23.07	23.14	23.41	23.58	24
10	16QAM	1	25	23.28	22.94	22.99	23.26	23.42	
10	16QAM	1	49	23.06	22.88	23.10	23.15	23.48	
10	16QAM	25	0	22.23	22.00	22.12	22.34	22.49	23
10	16QAM	25	12	22.24	21.76	21.97	22.19	22.49	
10	16QAM	25	25	21.99	21.91	22.07	22.28	22.51	
10	16QAM	50	0	21.97	21.90	21.98	22.32	22.40	
10	64QAM	1	0	21.77	21.67	21.60	22.07	22.18	23
10	64QAM	1	25	21.72	21.58	21.77	21.99	22.08	
10	64QAM	1	49	21.71	21.55	21.58	21.71	21.87	
10	64QAM	25	0	21.26	20.93	20.97	21.27	21.32	22
10	64QAM	25	12	21.11	20.73	20.92	21.22	21.40	
10	64QAM	25	25	21.15	20.92	21.10	21.33	21.31	
10	64QAM	50	0	21.00	20.92	20.98	21.18	21.47	
10	256QAM	1	0	18.76	18.66	18.79	19.06	19.28	20
10	256QAM	1	25	18.86	18.75	18.68	19.12	18.96	
10	256QAM	1	49	18.67	18.51	18.69	19.15	18.97	
10	256QAM	25	0	19.13	19.08	19.26	19.42	19.37	20
10	256QAM	25	12	18.98	18.76	18.98	19.18	19.32	
10	256QAM	25	25	18.86	18.69	18.92	19.17	19.18	
10	256QAM	50	0	19.24	18.87	19.09	19.41	19.21	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	23.52	23.37	23.54	23.81	23.98	25.00
5	QPSK	1	12	23.56	23.30	23.52	23.67	23.92	
5	QPSK	1	24	23.48	23.35	23.48	23.73	23.91	
5	QPSK	12	0	23.16	22.90	23.08	23.26	23.55	24
5	QPSK	12	7	23.08	22.91	22.98	23.31	23.47	
5	QPSK	12	13	23.03	22.95	23.02	23.18	23.36	
5	QPSK	25	0	22.95	22.96	22.99	23.30	23.26	
5	16QAM	1	0	23.23	23.09	23.14	23.30	23.64	24
5	16QAM	1	12	23.07	22.86	23.08	23.19	23.54	
5	16QAM	1	24	23.24	22.75	23.02	23.40	23.45	
5	16QAM	12	0	22.03	22.02	21.96	22.28	22.51	23
5	16QAM	12	7	22.09	21.91	21.99	22.37	22.35	
5	16QAM	12	13	22.07	21.88	21.88	22.17	22.35	
5	16QAM	25	0	22.25	22.01	22.01	22.37	22.52	
5	64QAM	1	0	21.73	21.45	21.80	22.19	22.10	23
5	64QAM	1	12	21.84	21.42	21.72	21.91	22.17	
5	64QAM	1	24	21.67	21.44	21.69	21.92	21.97	
5	64QAM	12	0	21.07	20.93	21.11	21.27	21.52	22
5	64QAM	12	7	21.13	20.96	20.99	21.36	21.32	
5	64QAM	12	13	21.17	20.99	21.02	21.17	21.26	
5	64QAM	25	0	21.12	20.94	20.95	21.26	21.29	
5	256QAM	1	0	18.76	18.78	18.90	19.24	19.27	20
5	256QAM	1	12	18.70	18.71	18.74	18.96	19.02	
5	256QAM	1	24	18.68	18.54	18.62	18.83	18.91	
5	256QAM	12	0	18.98	18.91	19.06	19.33	19.30	20
5	256QAM	12	7	18.95	18.88	18.89	19.24	19.38	
5	256QAM	12	13	19.04	18.89	18.97	19.12	19.18	
5	256QAM	25	0	19.11	18.85	18.91	19.38	19.21	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.18	23.32	23.37	23.29	23.63	24.8
20	QPSK	1	49	23.12	23.32	23.29	23.25	23.61	
20	QPSK	1	99	23.11	23.29	23.14	23.20	23.58	
20	QPSK	50	0	22.78	22.95	22.91	22.92	23.28	24
20	QPSK	50	24	22.76	22.93	22.89	22.86	23.27	
20	QPSK	50	50	22.75	22.91	22.80	22.84	23.25	
20	QPSK	100	0	22.79	22.92	22.88	22.87	23.22	24
20	16QAM	1	0	22.85	23.02	23.08	22.98	23.24	
20	16QAM	1	49	22.84	22.92	22.95	22.79	23.17	
20	16QAM	1	99	22.70	22.98	22.84	22.74	23.15	23
20	16QAM	50	0	21.77	21.89	21.96	21.86	22.15	
20	16QAM	50	24	21.74	21.91	21.92	21.81	22.17	
20	16QAM	50	50	21.71	21.92	21.83	21.77	22.17	23
20	16QAM	100	0	21.74	21.88	21.89	21.78	22.17	
20	64QAM	1	0	21.44	21.62	21.60	21.61	21.93	
20	64QAM	1	49	21.44	21.65	21.58	21.56	21.88	22
20	64QAM	1	99	21.40	21.66	21.37	21.44	21.79	
20	64QAM	50	0	20.79	20.93	20.88	20.89	21.23	
20	64QAM	50	24	20.74	20.94	20.84	20.84	21.20	20
20	64QAM	50	50	20.73	20.92	20.78	20.79	21.17	
20	64QAM	100	0	20.74	20.94	20.85	20.84	21.21	
20	256QAM	1	0	18.70	18.76	19.04	18.90	19.09	20
20	256QAM	1	49	18.66	18.66	18.78	18.60	19.01	
20	256QAM	1	99	18.42	18.49	18.66	18.42	18.90	
20	256QAM	50	0	18.90	18.81	19.09	18.88	19.22	20
20	256QAM	50	24	18.73	18.80	19.13	18.95	19.31	
20	256QAM	50	50	18.70	18.71	18.98	18.77	19.10	
20	256QAM	100	0	18.86	18.75	18.90	18.81	19.20	Tune-up limit (dBm)
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	23.16	23.22	23.21	23.17	23.52	24.80
15	QPSK	1	37	23.12	23.16	23.12	23.14	23.59	
15	QPSK	1	74	23.09	23.15	23.06	23.20	23.39	
15	QPSK	36	0	22.73	22.78	22.80	22.86	23.18	24
15	QPSK	36	20	22.58	22.89	22.69	22.73	23.08	
15	QPSK	36	39	22.67	22.79	22.60	22.77	23.10	
15	QPSK	75	0	22.66	22.90	22.76	22.79	23.10	24
15	16QAM	1	0	22.65	22.88	23.05	22.84	23.14	
15	16QAM	1	37	22.80	22.89	22.91	22.71	23.14	
15	16QAM	1	74	22.62	22.98	22.76	22.71	23.01	23
15	16QAM	36	0	21.65	21.74	21.81	21.78	22.03	
15	16QAM	36	20	21.68	21.75	21.79	21.72	21.98	
15	16QAM	36	39	21.51	21.91	21.68	21.57	22.02	23
15	16QAM	75	0	21.68	21.85	21.73	21.71	22.17	
15	64QAM	1	0	21.40	21.59	21.59	21.46	21.75	
15	64QAM	1	37	21.38	21.45	21.47	21.39	21.88	22
15	64QAM	1	74	21.37	21.50	21.24	21.33	21.69	
15	64QAM	36	0	20.65	20.93	20.86	20.78	21.21	
15	64QAM	36	20	20.66	20.89	20.68	20.80	21.13	20
15	64QAM	36	39	20.73	20.77	20.58	20.64	21.07	
15	64QAM	75	0	20.72	20.82	20.78	20.75	21.17	
15	256QAM	1	0	18.52	18.65	18.99	18.75	18.98	20
15	256QAM	1	37	18.56	18.50	18.70	18.60	18.82	
15	256QAM	1	74	18.40	18.30	18.57	18.28	18.84	
15	256QAM	36	0	18.70	18.75	18.93	18.88	19.11	20
15	256QAM	36	20	18.54	18.73	19.12	18.84	19.28	
15	256QAM	36	39	18.57	18.57	18.91	18.75	18.95	



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15	256QAM	75	0	18.76	18.61	18.79	18.66	19.05	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	23.17	23.18	23.22	23.18	23.50	24.80
10	QPSK	1	25	22.96	23.18	23.27	23.18	23.51	
10	QPSK	1	49	22.97	23.22	23.10	23.20	23.42	
10	QPSK	25	0	22.65	22.82	22.89	22.79	23.24	24
10	QPSK	25	12	22.59	22.80	22.83	22.67	23.21	
10	QPSK	25	25	22.67	22.85	22.64	22.69	23.14	
10	QPSK	50	0	22.73	22.83	22.88	22.71	23.08	
10	16QAM	1	0	22.76	22.96	23.08	22.96	23.20	24
10	16QAM	1	25	22.68	22.92	22.78	22.77	23.08	
10	16QAM	1	49	22.57	22.89	22.74	22.69	23.00	
10	16QAM	25	0	21.63	21.72	21.88	21.83	22.05	23
10	16QAM	25	12	21.64	21.82	21.86	21.77	22.06	
10	16QAM	25	25	21.58	21.88	21.82	21.61	22.10	
10	16QAM	50	0	21.68	21.73	21.88	21.67	22.02	
10	64QAM	1	0	21.32	21.53	21.40	21.49	21.90	23
10	64QAM	1	25	21.37	21.58	21.52	21.46	21.70	
10	64QAM	1	49	21.20	21.57	21.25	21.37	21.72	
10	64QAM	25	0	20.64	20.81	20.77	20.70	21.10	22
10	64QAM	25	12	20.62	20.90	20.66	20.69	21.01	
10	64QAM	25	25	20.62	20.81	20.72	20.71	21.00	
10	64QAM	50	0	20.66	20.79	20.80	20.75	21.12	
10	256QAM	1	0	18.59	18.71	18.90	18.78	19.03	20
10	256QAM	1	25	18.58	18.49	18.66	18.49	19.01	
10	256QAM	1	49	18.30	18.30	18.47	18.36	18.77	
10	256QAM	25	0	18.82	18.68	19.00	18.79	19.02	20
10	256QAM	25	12	18.62	18.70	19.08	18.75	19.22	
10	256QAM	25	25	18.61	18.55	18.81	18.59	19.06	
10	256QAM	50	0	18.70	18.61	18.78	18.72	19.00	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	23.18	23.15	23.33	23.13	23.45	24.80
5	QPSK	1	12	22.99	23.25	23.27	23.11	23.43	
5	QPSK	1	24	23.01	23.15	23.03	23.07	23.49	
5	QPSK	12	0	22.69	22.84	22.76	22.84	23.12	24
5	QPSK	12	7	22.72	22.86	22.84	22.85	23.20	
5	QPSK	12	13	22.57	22.75	22.80	22.68	23.10	
5	QPSK	25	0	22.59	22.81	22.84	22.73	23.22	
5	16QAM	1	0	22.80	22.85	23.06	22.89	23.15	24
5	16QAM	1	12	22.69	22.80	22.78	22.77	23.08	
5	16QAM	1	24	22.51	22.94	22.84	22.60	23.04	
5	16QAM	12	0	21.73	21.78	21.88	21.68	22.01	23
5	16QAM	12	7	21.54	21.75	21.86	21.79	21.97	
5	16QAM	12	13	21.70	21.74	21.71	21.63	22.10	
5	16QAM	25	0	21.62	21.68	21.70	21.77	22.15	
5	64QAM	1	0	21.34	21.44	21.59	21.55	21.82	23
5	64QAM	1	12	21.29	21.51	21.55	21.46	21.79	
5	64QAM	1	24	21.32	21.53	21.19	21.40	21.59	
5	64QAM	12	0	20.71	20.77	20.75	20.86	21.22	22
5	64QAM	12	7	20.54	20.75	20.77	20.83	21.20	
5	64QAM	12	13	20.62	20.84	20.76	20.69	21.07	
5	64QAM	25	0	20.55	20.85	20.80	20.71	21.20	
5	256QAM	1	0	18.70	18.74	18.91	18.84	19.01	20
5	256QAM	1	12	18.46	18.48	18.64	18.60	18.94	
5	256QAM	1	24	18.33	18.38	18.63	18.28	18.83	
5	256QAM	12	0	18.79	18.68	18.96	18.84	19.05	20
5	256QAM	12	7	18.73	18.80	19.03	18.82	19.20	
5	256QAM	12	13	18.56	18.65	18.86	18.62	18.97	
5	256QAM	25	0	18.86	18.55	18.71	18.64	19.10	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.83	24.00	23.92	24.09	24.16	25
20	QPSK	1	49	23.82	24.05	23.92	24.02	24.09	
20	QPSK	1	99	23.74	23.97	23.81	23.90	24.04	
20	QPSK	50	0	22.82	22.95	22.90	23.01	23.09	24
20	QPSK	50	24	22.80	22.96	22.87	23.00	23.09	
20	QPSK	50	50	22.76	22.92	22.82	22.93	23.08	
20	QPSK	100	0	22.80	22.86	22.88	22.90	23.00	24
20	16QAM	1	0	22.85	23.02	23.04	23.13	23.12	
20	16QAM	1	49	22.70	22.92	22.88	22.93	22.96	
20	16QAM	1	99	22.70	22.98	22.90	22.84	23.00	23
20	16QAM	50	0	21.81	21.93	21.94	21.99	22.00	
20	16QAM	50	24	21.77	21.93	21.92	21.93	21.98	
20	16QAM	50	50	21.73	21.93	21.87	21.87	21.99	23
20	16QAM	100	0	21.76	21.92	21.91	21.92	21.98	
20	64QAM	1	0	21.51	21.69	21.59	21.74	21.79	
20	64QAM	1	49	21.47	21.71	21.53	21.66	21.74	22
20	64QAM	1	99	21.41	21.61	21.45	21.52	21.68	
20	64QAM	50	0	20.81	20.97	20.88	21.02	21.05	
20	64QAM	50	24	20.78	20.95	20.83	20.95	21.03	20
20	64QAM	50	50	20.75	20.93	20.83	20.91	21.00	
20	64QAM	100	0	20.80	20.95	20.83	20.95	21.03	
20	256QAM	1	0	18.67	18.80	18.69	18.87	18.83	20
20	256QAM	1	49	18.49	18.70	18.60	18.75	18.73	
20	256QAM	1	99	18.47	18.61	18.55	18.69	18.64	
20	256QAM	50	0	18.83	18.89	18.88	19.05	19.00	20
20	256QAM	50	24	18.76	18.97	18.86	19.04	18.93	
20	256QAM	50	50	18.78	18.96	18.85	19.03	18.93	
20	256QAM	100	0	18.74	18.89	18.84	19.00	18.91	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	23.75	23.93	23.78	23.89	24.00	25.00
15	QPSK	1	37	23.66	23.85	23.89	24.00	24.03	
15	QPSK	1	74	23.56	23.87	23.73	23.82	24.01	
15	QPSK	36	0	22.78	22.88	22.76	22.83	23.03	24
15	QPSK	36	20	22.69	22.80	22.75	22.90	23.08	
15	QPSK	36	39	22.61	22.90	22.70	22.92	22.88	
15	QPSK	75	0	22.73	22.85	22.86	22.89	22.90	24
15	16QAM	1	0	22.65	22.93	22.94	23.02	22.93	
15	16QAM	1	37	22.65	22.82	22.78	22.91	22.77	
15	16QAM	1	74	22.58	22.87	22.85	22.75	23.00	23
15	16QAM	36	0	21.73	21.79	21.92	21.92	21.90	
15	16QAM	36	20	21.70	21.77	21.81	21.73	21.78	
15	16QAM	36	39	21.60	21.92	21.67	21.79	21.88	23
15	16QAM	75	0	21.71	21.90	21.77	21.79	21.78	
15	64QAM	1	0	21.33	21.56	21.54	21.69	21.62	
15	64QAM	1	37	21.28	21.59	21.43	21.61	21.57	22
15	64QAM	1	74	21.32	21.56	21.36	21.39	21.63	
15	64QAM	36	0	20.74	20.80	20.71	20.98	21.04	
15	64QAM	36	20	20.76	20.91	20.76	20.81	20.90	20
15	64QAM	36	39	20.65	20.75	20.82	20.82	20.94	
15	64QAM	75	0	20.70	20.77	20.74	20.87	20.87	
15	256QAM	1	0	18.59	18.66	18.50	18.72	18.82	20
15	256QAM	1	37	18.44	18.67	18.59	18.75	18.54	
15	256QAM	1	74	18.40	18.56	18.51	18.62	18.63	
15	256QAM	36	0	18.81	18.86	18.88	18.97	19.00	20
15	256QAM	36	20	18.62	18.88	18.77	18.91	18.90	
15	256QAM	36	39	18.64	18.83	18.70	18.87	18.81	



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15	256QAM	75	0	18.73	18.87	18.65	18.86	18.88	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	23.70	24.00	23.91	23.91	23.99	25.00
10	QPSK	1	25	23.63	23.99	23.81	23.82	23.97	
10	QPSK	1	49	23.61	23.87	23.81	23.76	23.97	
10	QPSK	25	0	22.72	22.80	22.73	22.88	22.96	24
10	QPSK	25	12	22.64	22.80	22.71	22.98	23.06	
10	QPSK	25	25	22.68	22.84	22.73	22.76	23.02	
10	QPSK	50	0	22.76	22.73	22.81	22.83	22.89	
10	16QAM	1	0	22.84	22.88	22.86	23.00	22.99	24
10	16QAM	1	25	22.66	22.79	22.72	22.84	22.83	
10	16QAM	1	49	22.62	22.86	22.84	22.80	22.87	
10	16QAM	25	0	21.73	21.82	21.75	21.93	21.97	23
10	16QAM	25	12	21.75	21.88	21.73	21.84	21.92	
10	16QAM	25	25	21.54	21.73	21.72	21.74	21.86	
10	16QAM	50	0	21.57	21.87	21.77	21.91	21.88	
10	64QAM	1	0	21.35	21.58	21.43	21.59	21.67	23
10	64QAM	1	25	21.44	21.69	21.45	21.63	21.71	
10	64QAM	1	49	21.26	21.59	21.25	21.46	21.55	
10	64QAM	25	0	20.68	20.92	20.69	20.85	20.90	22
10	64QAM	25	12	20.78	20.82	20.80	20.80	20.87	
10	64QAM	25	25	20.55	20.80	20.76	20.80	20.98	
10	64QAM	50	0	20.72	20.92	20.66	20.94	20.89	
10	256QAM	1	0	18.63	18.75	18.53	18.84	18.81	20
10	256QAM	1	25	18.29	18.61	18.56	18.60	18.64	
10	256QAM	1	49	18.40	18.54	18.44	18.57	18.44	
10	256QAM	25	0	18.69	18.76	18.84	18.93	18.90	20
10	256QAM	25	12	18.62	18.95	18.69	18.95	18.75	
10	256QAM	25	25	18.66	18.89	18.79	19.00	18.74	
10	256QAM	50	0	18.57	18.85	18.80	18.98	18.78	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	23.76	23.92	23.84	23.94	24.09	25.00
5	QPSK	1	12	23.69	23.88	23.79	23.97	23.98	
5	QPSK	1	24	23.61	23.86	23.79	23.72	23.87	
5	QPSK	12	0	22.63	22.83	22.88	22.97	22.98	24
5	QPSK	12	7	22.77	22.91	22.86	22.87	23.02	
5	QPSK	12	13	22.75	22.86	22.82	22.78	23.07	
5	QPSK	25	0	22.60	22.76	22.86	22.88	22.85	
5	16QAM	1	0	22.83	22.97	22.95	22.94	22.96	24
5	16QAM	1	12	22.59	22.91	22.70	22.93	22.85	
5	16QAM	1	24	22.56	22.93	22.79	22.77	22.90	
5	16QAM	12	0	21.65	21.78	21.79	21.79	21.94	23
5	16QAM	12	7	21.74	21.78	21.85	21.86	21.94	
5	16QAM	12	13	21.66	21.83	21.82	21.86	21.91	
5	16QAM	25	0	21.63	21.85	21.81	21.74	21.97	
5	64QAM	1	0	21.50	21.56	21.59	21.62	21.71	23
5	64QAM	1	12	21.33	21.61	21.35	21.47	21.61	
5	64QAM	1	24	21.30	21.57	21.37	21.42	21.61	
5	64QAM	12	0	20.62	20.96	20.77	20.85	21.00	22
5	64QAM	12	7	20.74	20.84	20.79	20.89	20.90	
5	64QAM	12	13	20.67	20.92	20.75	20.72	20.94	
5	64QAM	25	0	20.77	20.91	20.69	20.86	20.89	
5	256QAM	1	0	18.47	18.65	18.59	18.68	18.74	20
5	256QAM	1	12	18.40	18.53	18.47	18.64	18.72	
5	256QAM	1	24	18.47	18.42	18.45	18.64	18.47	
5	256QAM	12	0	18.79	18.81	18.83	19.05	18.98	20
5	256QAM	12	7	18.64	18.83	18.81	18.96	18.74	
5	256QAM	12	13	18.69	18.89	18.82	18.90	18.90	
5	256QAM	25	0	18.71	18.77	18.67	18.97	18.85	



<LTE Band 41_HPUE_Ant 2_Index 10>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	21.06	21.21	21.11	21.27	21.38	22.4
20	QPSK	1	49	21.00	21.12	21.00	21.19	21.29	
20	QPSK	1	99	21.03	21.12	20.96	21.14	21.24	
20	QPSK	50	0	21.10	21.20	21.15	21.31	21.37	22.4
20	QPSK	50	24	21.08	21.20	21.12	21.26	21.31	
20	QPSK	50	50	21.09	21.17	21.04	21.28	21.26	
20	QPSK	100	0	21.08	21.19	21.09	21.29	21.31	
20	16QAM	1	0	21.06	21.16	21.09	21.31	21.32	22.4
20	16QAM	1	49	20.97	21.12	20.99	21.15	21.28	
20	16QAM	1	99	20.98	21.09	20.93	21.05	21.21	
20	16QAM	50	0	21.15	21.29	21.20	21.28	21.33	22.4
20	16QAM	50	24	21.16	21.26	21.18	21.37	21.37	
20	16QAM	50	50	21.14	21.24	21.12	21.33	21.34	
20	16QAM	100	0	21.12	21.25	21.15	21.36	21.28	
20	64QAM	1	0	20.85	21.02	20.95	21.09	21.21	22.4
20	64QAM	1	49	20.78	20.93	20.82	20.96	21.13	
20	64QAM	1	99	20.84	20.92	20.79	20.89	21.08	
20	64QAM	50	0	21.11	21.26	21.18	21.33	21.29	22.4
20	64QAM	50	24	21.11	21.22	21.15	21.29	21.34	
20	64QAM	50	50	21.11	21.21	21.09	21.29	21.33	
20	64QAM	100	0	21.10	21.21	21.12	21.30	21.16	
20	256QAM	1	0	20.85	21.16	21.05	21.27	21.16	22
20	256QAM	1	49	20.82	20.79	20.92	21.10	21.08	
20	256QAM	1	99	20.81	20.81	20.81	20.91	21.11	
20	256QAM	50	0	20.87	21.10	20.97	21.22	21.26	22
20	256QAM	50	24	20.86	21.12	21.01	21.08	21.21	
20	256QAM	50	50	20.92	20.98	20.86	21.06	21.01	
20	256QAM	100	0	20.86	21.13	21.01	20.98	21.09	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	21.05	21.02	20.97	21.16	21.22	22.40
15	QPSK	1	37	20.96	20.97	20.81	21.17	21.21	
15	QPSK	1	74	20.86	20.98	20.77	21.11	21.22	
15	QPSK	36	0	20.96	21.12	21.10	21.26	21.36	22.4
15	QPSK	36	20	20.99	21.16	21.08	21.14	21.31	
15	QPSK	36	39	20.99	21.04	20.99	21.25	21.13	
15	QPSK	75	0	21.03	21.15	20.95	21.23	21.28	
15	16QAM	1	0	21.01	21.10	20.91	21.25	21.17	22.4
15	16QAM	1	37	20.87	21.09	20.83	21.00	21.17	
15	16QAM	1	74	20.95	20.92	20.90	20.95	21.07	
15	16QAM	36	0	21.12	21.25	21.17	21.08	21.24	22.4
15	16QAM	36	20	21.16	21.20	21.14	21.37	21.34	
15	16QAM	36	39	20.95	21.23	21.08	21.14	21.33	
15	16QAM	75	0	20.97	21.13	20.99	21.16	21.23	
15	64QAM	1	0	20.85	21.00	20.94	21.06	21.08	22.4
15	64QAM	1	37	20.71	20.90	20.73	20.96	21.08	
15	64QAM	1	74	20.71	20.89	20.78	20.89	20.93	
15	64QAM	36	0	20.94	21.08	20.98	21.17	21.10	22.4
15	64QAM	36	20	21.01	21.08	20.95	21.26	21.14	
15	64QAM	36	39	20.92	21.19	21.04	21.18	21.32	
15	64QAM	75	0	21.05	21.08	21.07	21.16	21.05	
15	256QAM	1	0	20.85	20.98	20.97	21.15	21.04	22
15	256QAM	1	37	20.64	20.72	20.75	21.07	21.06	
15	256QAM	1	74	20.70	20.63	20.70	20.86	20.97	
15	256QAM	36	0	20.75	21.03	20.79	21.06	21.07	22
15	256QAM	36	20	20.72	20.94	20.83	21.06	21.05	
15	256QAM	36	39	20.90	20.87	20.83	21.03	21.00	



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15	256QAM	75	0	20.76	21.01	20.91	20.88	21.04	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	20.86	21.14	20.95	21.08	21.23	22.40
10	QPSK	1	25	20.93	21.02	20.82	21.11	21.22	
10	QPSK	1	49	20.96	21.12	20.85	20.97	21.09	
10	QPSK	25	0	21.05	21.01	21.11	21.30	21.21	22.4
10	QPSK	25	12	20.99	21.10	21.07	21.10	21.24	
10	QPSK	25	25	21.05	21.17	20.98	21.17	21.17	
10	QPSK	50	0	20.93	21.02	21.01	21.25	21.23	
10	16QAM	1	0	20.87	21.05	21.03	21.18	21.26	22.4
10	16QAM	1	25	20.85	21.08	20.91	20.97	21.17	
10	16QAM	1	49	20.87	20.91	20.74	20.99	21.04	
10	16QAM	25	0	21.09	21.27	21.15	21.13	21.22	22.4
10	16QAM	25	12	21.03	21.16	20.99	21.29	21.36	
10	16QAM	25	25	21.06	21.12	20.97	21.19	21.18	
10	16QAM	50	0	21.02	21.13	21.00	21.19	21.28	
10	64QAM	1	0	20.68	20.83	20.95	21.09	21.04	22.4
10	64QAM	1	25	20.61	20.86	20.62	20.95	21.05	
10	64QAM	1	49	20.70	20.86	20.78	20.85	21.05	
10	64QAM	25	0	21.04	21.26	21.17	21.33	21.28	22.4
10	64QAM	25	12	20.95	21.07	21.09	21.12	21.15	
10	64QAM	25	25	21.00	21.13	21.09	21.12	21.26	
10	64QAM	50	0	20.98	21.20	20.92	21.19	21.15	
10	256QAM	1	0	20.71	21.09	20.95	21.08	21.13	22
10	256QAM	1	25	20.81	20.77	20.90	20.99	20.95	
10	256QAM	1	49	20.70	20.68	20.69	20.72	20.94	
10	256QAM	25	0	20.78	21.00	20.91	21.16	21.22	22
10	256QAM	25	12	20.71	21.10	20.97	20.92	21.11	
10	256QAM	25	25	20.80	20.97	20.66	20.99	20.98	
10	256QAM	50	0	20.82	20.97	20.85	20.82	20.90	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	20.95	21.17	21.02	21.27	21.31	22.40
5	QPSK	1	12	20.80	20.98	20.84	21.11	21.12	
5	QPSK	1	24	20.91	21.04	20.92	21.06	21.05	
5	QPSK	12	0	21.02	21.16	21.11	21.25	21.28	22.4
5	QPSK	12	7	20.88	21.11	20.97	21.16	21.12	
5	QPSK	12	13	20.94	21.12	20.97	21.23	21.25	
5	QPSK	25	0	21.03	21.10	20.89	21.23	21.28	
5	16QAM	1	0	21.06	21.05	20.96	21.27	21.22	22.4
5	16QAM	1	12	20.93	20.97	20.96	21.01	21.27	
5	16QAM	1	24	20.78	21.04	20.74	20.90	21.09	
5	16QAM	12	0	21.14	21.15	21.09	21.20	21.15	22.4
5	16QAM	12	7	21.13	21.07	21.14	21.18	21.36	
5	16QAM	12	13	21.01	21.20	21.05	21.21	21.25	
5	16QAM	25	0	20.97	21.15	21.15	21.19	21.12	
5	64QAM	1	0	20.69	20.90	20.92	20.97	21.21	22.4
5	64QAM	1	12	20.60	20.80	20.75	20.88	20.96	
5	64QAM	1	24	20.65	20.75	20.59	20.74	20.95	
5	64QAM	12	0	20.92	21.17	20.98	21.29	21.22	22.4
5	64QAM	12	7	21.07	21.13	21.05	21.18	21.33	
5	64QAM	12	13	21.03	21.05	21.07	21.23	21.21	
5	64QAM	25	0	20.90	21.06	21.02	21.26	21.06	
5	256QAM	1	0	20.82	21.02	20.91	21.26	21.15	22
5	256QAM	1	12	20.71	20.61	20.82	21.00	21.08	
5	256QAM	1	24	20.65	20.66	20.74	20.72	20.98	
5	256QAM	12	0	20.86	20.95	20.79	21.06	21.06	22
5	256QAM	12	7	20.78	21.07	20.84	21.01	21.19	
5	256QAM	12	13	20.84	20.84	20.85	20.92	21.01	
5	256QAM	25	0	20.84	20.94	20.91	20.83	21.09	



<LTE Band 41_HPUE_Ant 1_Index 10>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.40	25.24	25.50	25.62	25.76	26.8
20	QPSK	1	49	25.35	25.14	25.38	25.52	25.65	
20	QPSK	1	99	25.33	25.22	25.36	25.50	25.61	
20	QPSK	50	0	25.30	25.01	24.99	25.36	25.44	26
20	QPSK	50	24	25.30	24.91	24.93	25.32	25.43	
20	QPSK	50	50	25.11	24.89	24.92	25.26	25.40	
20	QPSK	100	0	25.12	24.89	25.06	25.28	25.39	26
20	16QAM	1	0	25.23	25.04	25.35	25.50	25.53	
20	16QAM	1	49	25.12	24.91	25.30	25.41	25.44	
20	16QAM	1	99	25.19	25.08	25.20	25.36	25.54	25
20	16QAM	50	0	24.14	23.96	24.02	24.37	24.48	
20	16QAM	50	24	24.27	23.90	23.99	24.34	24.49	
20	16QAM	50	50	24.10	23.95	23.97	24.29	24.42	25
20	16QAM	100	0	24.11	23.84	24.07	24.38	24.44	
20	64QAM	1	0	23.99	23.84	23.99	24.18	24.45	
20	64QAM	1	49	24.09	23.78	24.03	24.17	24.29	24
20	64QAM	1	99	23.87	23.86	23.94	24.16	24.21	
20	64QAM	50	0	23.08	22.97	22.96	23.33	23.29	
20	64QAM	50	24	23.12	22.80	22.94	23.26	23.24	22
20	64QAM	50	50	23.13	22.93	22.85	23.20	23.25	
20	64QAM	100	0	23.15	22.76	23.03	23.27	23.34	
20	256QAM	1	0	21.19	21.01	21.02	21.26	21.48	22
20	256QAM	1	49	20.94	20.77	20.91	21.14	21.40	
20	256QAM	1	99	20.92	20.64	20.77	21.09	21.17	
20	256QAM	50	0	21.06	21.05	21.09	21.38	21.53	22
20	256QAM	50	24	21.12	20.85	20.96	21.18	21.39	
20	256QAM	50	50	21.00	20.90	20.97	21.26	21.45	
20	256QAM	100	0	20.99	20.93	20.97	21.24	21.46	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	25.34	25.05	25.32	25.50	25.61	26.80
15	QPSK	1	37	25.18	25.07	25.19	25.50	25.61	
15	QPSK	1	74	25.23	25.17	25.21	25.49	25.41	
15	QPSK	36	0	25.12	24.84	24.92	25.26	25.37	26
15	QPSK	36	20	25.04	24.89	24.91	25.16	25.40	
15	QPSK	36	39	25.03	24.78	24.85	25.33	25.18	
15	QPSK	75	0	25.07	24.80	24.92	25.26	25.37	26
15	16QAM	1	0	24.92	24.87	25.41	25.52	25.46	
15	16QAM	1	37	24.95	24.89	25.14	25.21	25.49	
15	16QAM	1	74	25.08	25.01	25.18	25.16	25.39	25
15	16QAM	36	0	24.02	23.79	23.91	24.20	24.32	
15	16QAM	36	20	24.09	23.99	24.00	24.18	24.12	
15	16QAM	36	39	23.89	23.99	23.85	24.06	24.26	25
15	16QAM	75	0	23.96	23.87	23.81	24.21	24.17	
15	64QAM	1	0	23.92	23.93	23.99	24.13	24.48	
15	64QAM	1	37	23.88	23.61	23.92	24.02	24.36	24
15	64QAM	1	74	23.79	23.74	23.89	24.14	24.20	
15	64QAM	36	0	23.03	22.73	22.92	23.12	23.31	
15	64QAM	36	20	22.87	22.65	22.65	23.08	23.30	22
15	64QAM	36	39	22.92	22.67	22.74	23.22	23.23	
15	64QAM	75	0	23.11	22.76	22.89	23.23	23.17	
15	256QAM	1	0	21.04	20.75	20.82	21.42	21.46	22
15	256QAM	1	37	20.75	20.73	20.83	20.95	21.25	
15	256QAM	1	74	20.66	20.64	20.83	21.03	21.21	
15	256QAM	36	0	20.98	20.87	21.06	21.16	21.37	22
15	256QAM	36	20	20.93	20.91	21.02	21.05	21.23	
15	256QAM	36	39	20.93	20.72	20.90	21.25	21.23	



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Report No. : FA4N0920C

15	256QAM	75	0	20.91	20.78	20.97	21.11	21.36	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	25.29	25.13	25.49	25.60	25.65	26.80
10	QPSK	1	25	25.35	25.10	25.21	25.36	25.65	
10	QPSK	1	49	25.30	25.12	25.16	25.30	25.54	
10	QPSK	25	0	24.99	24.81	24.90	25.19	25.48	26
10	QPSK	25	12	25.20	24.85	24.93	25.31	25.12	
10	QPSK	25	25	25.03	25.00	24.85	25.14	25.29	
10	QPSK	50	0	24.97	24.84	24.72	25.25	25.26	
10	16QAM	1	0	25.09	25.00	25.13	25.28	25.48	26
10	16QAM	1	25	25.22	24.70	25.06	25.18	25.36	
10	16QAM	1	49	25.08	24.82	25.23	25.28	25.44	
10	16QAM	25	0	24.07	23.91	24.08	24.09	24.37	25
10	16QAM	25	12	23.91	23.95	23.85	24.34	24.34	
10	16QAM	25	25	24.05	23.74	23.75	24.17	24.43	
10	16QAM	50	0	24.09	23.75	23.99	24.25	24.38	
10	64QAM	1	0	23.94	23.86	24.03	24.13	24.32	25
10	64QAM	1	25	23.76	23.59	23.79	23.89	24.20	
10	64QAM	1	49	23.90	23.62	23.77	23.89	24.13	
10	64QAM	25	0	23.05	22.66	23.03	23.16	23.20	24
10	64QAM	25	12	22.96	22.76	22.83	23.07	23.27	
10	64QAM	25	25	23.08	22.73	22.88	23.04	23.33	
10	64QAM	50	0	22.98	22.65	22.73	23.18	23.05	
10	256QAM	1	0	21.06	20.88	20.81	21.13	21.50	22
10	256QAM	1	25	20.91	20.72	20.87	20.96	21.28	
10	256QAM	1	49	20.89	20.66	20.82	21.00	21.07	
10	256QAM	25	0	21.13	20.97	20.86	21.25	21.28	22
10	256QAM	25	12	21.05	20.82	20.89	21.15	21.30	
10	256QAM	25	25	20.82	20.63	21.02	21.32	21.30	
10	256QAM	50	0	20.90	20.82	20.88	21.05	21.40	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	25.33	25.17	25.34	25.44	25.70	26.80
5	QPSK	1	12	25.28	25.09	25.31	25.50	25.58	
5	QPSK	1	24	25.32	25.02	25.36	25.40	25.59	
5	QPSK	12	0	25.22	24.97	25.02	25.12	25.40	26
5	QPSK	12	7	25.06	24.81	24.93	25.13	25.19	
5	QPSK	12	13	25.08	24.75	24.81	25.24	25.31	
5	QPSK	25	0	25.01	24.84	24.97	25.27	25.32	
5	16QAM	1	0	24.96	24.99	25.28	25.46	25.43	26
5	16QAM	1	12	24.92	24.98	25.16	25.13	25.43	
5	16QAM	1	24	24.97	24.83	25.06	25.32	25.34	
5	16QAM	12	0	24.04	23.76	23.88	24.20	24.49	25
5	16QAM	12	7	24.12	23.93	24.06	24.12	24.24	
5	16QAM	12	13	24.01	23.84	23.92	24.20	24.31	
5	16QAM	25	0	24.00	23.72	23.91	24.24	24.27	
5	64QAM	1	0	24.00	23.80	23.89	24.17	24.27	25
5	64QAM	1	12	23.92	23.63	23.87	23.96	24.35	
5	64QAM	1	24	23.94	23.66	23.70	24.00	24.05	
5	64QAM	12	0	23.03	22.75	22.89	23.11	23.35	24
5	64QAM	12	7	22.89	22.85	22.91	22.98	23.20	
5	64QAM	12	13	22.94	22.65	22.90	23.17	23.15	
5	64QAM	25	0	22.86	22.90	22.88	23.12	23.11	
5	256QAM	1	0	21.14	20.88	20.95	21.22	21.28	22
5	256QAM	1	12	20.90	20.66	20.77	20.96	21.16	
5	256QAM	1	24	20.79	20.58	20.73	20.97	21.05	
5	256QAM	12	0	21.15	20.82	20.93	21.11	21.31	22
5	256QAM	12	7	20.97	20.88	20.78	21.15	21.24	
5	256QAM	12	13	20.83	20.76	21.09	21.19	21.23	
5	256QAM	25	0	20.97	20.59	20.83	21.10	21.39	



<LTE Band 41_HPUE_Ant 0_Index 10>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.23	25.35	25.49	25.34	25.69	26.5
20	QPSK	1	49	25.12	25.34	25.37	25.20	25.60	
20	QPSK	1	99	25.12	25.41	25.30	25.16	25.59	
20	QPSK	50	0	25.41	25.52	25.54	25.51	25.66	26
20	QPSK	50	24	25.35	25.52	25.49	25.47	25.65	
20	QPSK	50	50	25.32	25.55	25.44	25.40	25.64	
20	QPSK	100	0	25.32	25.46	25.45	25.47	25.67	26
20	16QAM	1	0	24.91	25.08	25.26	25.04	25.42	
20	16QAM	1	49	24.89	25.11	25.19	24.92	25.37	
20	16QAM	1	99	24.85	25.14	25.06	24.92	25.26	25
20	16QAM	50	0	23.87	23.98	24.06	23.95	24.27	
20	16QAM	50	24	23.83	24.00	24.02	23.90	24.26	
20	16QAM	50	50	23.79	24.01	23.96	23.87	24.25	25
20	16QAM	100	0	23.79	23.97	23.97	23.89	24.23	
20	64QAM	1	0	23.71	23.90	24.04	23.90	24.19	
20	64QAM	1	49	23.67	23.91	23.95	23.77	24.19	24
20	64QAM	1	99	23.66	23.98	23.86	23.69	24.14	
20	64QAM	50	0	22.79	22.94	22.98	22.90	23.16	
20	64QAM	50	24	22.77	22.94	22.95	22.85	23.16	22
20	64QAM	50	50	22.75	22.98	22.92	22.81	23.21	
20	64QAM	100	0	22.74	22.92	22.95	22.84	23.22	
20	256QAM	1	0	20.81	20.77	20.89	21.05	21.05	22
20	256QAM	1	49	20.65	20.88	20.84	20.93	21.09	
20	256QAM	1	99	20.61	20.69	20.67	20.78	20.91	
20	256QAM	50	0	20.72	20.93	21.09	21.08	21.10	22
20	256QAM	50	24	20.76	20.79	20.97	20.99	21.19	
20	256QAM	50	50	20.65	20.87	20.99	20.77	21.12	
20	256QAM	100	0	20.61	20.75	20.98	20.86	21.09	Tune-up limit (dBm)
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	25.14	25.27	25.33	25.26	25.56	26.50
15	QPSK	1	37	25.10	25.14	25.34	25.02	25.60	
15	QPSK	1	74	25.05	25.41	25.26	25.15	25.52	
15	QPSK	36	0	25.40	25.51	25.54	25.38	25.58	26
15	QPSK	36	20	25.27	25.41	25.32	25.36	25.57	
15	QPSK	36	39	25.28	25.55	25.38	25.33	25.53	
15	QPSK	75	0	25.30	25.39	25.40	25.30	25.62	26
15	16QAM	1	0	24.76	24.92	25.12	24.91	25.34	
15	16QAM	1	37	24.76	24.98	25.11	24.80	25.20	
15	16QAM	1	74	24.82	24.98	25.04	24.73	25.15	25
15	16QAM	36	0	23.84	23.89	23.94	23.83	24.23	
15	16QAM	36	20	23.80	23.86	23.98	23.83	24.07	
15	16QAM	36	39	23.78	23.97	23.82	23.83	24.17	25
15	16QAM	75	0	23.66	23.86	23.85	23.87	24.11	
15	64QAM	1	0	23.69	23.74	23.98	23.82	24.02	
15	64QAM	1	37	23.56	23.76	23.78	23.57	24.12	24
15	64QAM	1	74	23.50	23.88	23.75	23.64	23.94	
15	64QAM	36	0	22.74	22.86	22.85	22.72	23.00	
15	64QAM	36	20	22.76	22.91	22.84	22.72	22.98	22
15	64QAM	36	39	22.67	22.84	22.92	22.74	23.02	
15	64QAM	75	0	22.64	22.90	22.86	22.78	23.13	
15	256QAM	1	0	20.71	20.73	20.80	20.88	20.97	22
15	256QAM	1	37	20.65	20.82	20.84	20.86	20.95	
15	256QAM	1	74	20.42	20.59	20.48	20.67	20.78	
15	256QAM	36	0	20.59	20.79	21.01	20.89	20.96	22
15	256QAM	36	20	20.62	20.69	20.79	20.88	21.01	
15	256QAM	36	39	20.51	20.73	20.91	20.68	21.00	



FCC SAR TEST REPORT

Report No. : FA4N0920C

15	256QAM	75	0	20.57	20.75	20.88	20.67	20.91	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	25.07	25.30	25.49	25.23	25.60	26.50
10	QPSK	1	25	25.00	25.30	25.34	25.19	25.42	
10	QPSK	1	49	24.96	25.35	25.18	25.01	25.55	
10	QPSK	25	0	25.30	25.41	25.38	25.47	25.64	26
10	QPSK	25	12	25.15	25.45	25.35	25.47	25.65	
10	QPSK	25	25	25.24	25.54	25.43	25.24	25.49	
10	QPSK	50	0	25.22	25.33	25.31	25.42	25.56	26
10	16QAM	1	0	24.88	24.97	25.07	24.99	25.37	
10	16QAM	1	25	24.83	24.97	25.12	24.84	25.21	
10	16QAM	1	49	24.78	24.98	24.90	24.82	25.22	25
10	16QAM	25	0	23.87	23.87	23.98	23.82	24.18	
10	16QAM	25	12	23.74	23.92	23.83	23.83	24.19	
10	16QAM	25	25	23.67	23.97	23.79	23.75	24.14	25
10	16QAM	50	0	23.68	23.83	23.86	23.75	24.13	
10	64QAM	1	0	23.67	23.86	23.92	23.79	24.12	
10	64QAM	1	25	23.62	23.83	23.80	23.66	24.19	24
10	64QAM	1	49	23.57	23.88	23.81	23.65	24.10	
10	64QAM	25	0	22.64	22.82	22.79	22.77	23.07	
10	64QAM	25	12	22.66	22.75	22.77	22.72	22.98	22
10	64QAM	25	25	22.63	22.85	22.87	22.79	23.12	
10	64QAM	50	0	22.64	22.90	22.90	22.67	23.22	
10	256QAM	1	0	20.74	20.65	20.69	20.85	21.02	22
10	256QAM	1	25	20.54	20.78	20.76	20.77	20.90	
10	256QAM	1	49	20.56	20.49	20.64	20.73	20.78	
10	256QAM	25	0	20.55	20.86	20.97	20.88	21.07	22
10	256QAM	25	12	20.59	20.61	20.87	20.87	21.15	
10	256QAM	25	25	20.56	20.85	20.93	20.66	20.94	
10	256QAM	50	0	20.42	20.72	20.82	20.76	20.99	Tune-up limit (dBm)
Channel				39675	40148	40620	41093	41565	
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	26.50
5	QPSK	1	0	25.09	25.15	25.40	25.21	25.63	
5	QPSK	1	12	24.92	25.33	25.26	25.18	25.41	
5	QPSK	1	24	25.06	25.26	25.25	25.08	25.58	26
5	QPSK	12	0	25.37	25.46	25.42	25.32	25.64	
5	QPSK	12	7	25.24	25.35	25.42	25.38	25.46	
5	QPSK	12	13	25.30	25.49	25.42	25.40	25.50	26
5	QPSK	25	0	25.20	25.30	25.35	25.37	25.62	
5	16QAM	1	0	24.72	25.05	25.10	24.87	25.23	
5	16QAM	1	12	24.89	24.92	25.10	24.89	25.27	25
5	16QAM	1	24	24.70	24.94	24.91	24.88	25.21	
5	16QAM	12	0	23.82	23.84	23.93	23.82	24.19	
5	16QAM	12	7	23.72	23.93	23.87	23.87	24.24	25
5	16QAM	12	13	23.73	23.93	23.77	23.82	24.12	
5	16QAM	25	0	23.78	23.86	23.81	23.78	24.11	
5	64QAM	1	0	23.61	23.81	23.85	23.72	23.99	24
5	64QAM	1	12	23.62	23.80	23.88	23.74	24.04	
5	64QAM	1	24	23.51	23.79	23.67	23.53	24.13	
5	64QAM	12	0	22.61	22.82	22.88	22.75	23.06	22
5	64QAM	12	7	22.72	22.89	22.82	22.72	23.12	
5	64QAM	12	13	22.66	22.88	22.85	22.81	23.09	
5	64QAM	25	0	22.67	22.82	22.82	22.72	23.05	22
5	256QAM	1	0	20.80	20.73	20.86	21.00	21.00	
5	256QAM	1	12	20.61	20.81	20.66	20.78	20.92	
5	256QAM	1	24	20.45	20.65	20.50	20.76	20.79	22
5	256QAM	12	0	20.69	20.77	20.94	20.92	21.08	
5	256QAM	12	7	20.61	20.61	20.89	20.92	21.06	
5	256QAM	12	13	20.62	20.86	20.88	20.75	20.98	22
5	256QAM	25	0	20.51	20.60	20.94	20.72	21.02	



<LTE Band 41_HPUE_Ant 5_Index 10>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.63	25.77	25.88	25.85	25.89	27
20	QPSK	1	49	25.51	25.73	25.76	25.69	25.61	
20	QPSK	1	99	25.53	25.81	25.72	25.64	25.82	
20	QPSK	50	0	24.84	24.96	24.89	25.02	24.98	26
20	QPSK	50	24	24.77	24.90	24.85	24.96	24.97	
20	QPSK	50	50	24.71	24.90	24.82	24.87	24.97	
20	QPSK	100	0	24.71	24.89	24.86	24.94	24.97	
20	16QAM	1	0	24.82	25.07	25.13	25.12	25.16	26
20	16QAM	1	49	24.75	24.99	25.00	24.92	25.14	
20	16QAM	1	99	24.74	25.07	24.97	24.86	25.05	
20	16QAM	50	0	23.77	23.91	23.90	23.98	23.98	25
20	16QAM	50	24	23.72	23.90	23.87	23.92	23.98	
20	16QAM	50	50	23.68	23.91	23.83	23.85	23.97	
20	16QAM	100	0	23.70	23.88	23.85	23.90	23.97	
20	64QAM	1	0	23.67	23.83	23.94	23.95	23.98	25
20	64QAM	1	49	23.57	23.79	23.83	23.76	23.88	
20	64QAM	1	99	23.58	23.85	23.80	23.66	23.88	
20	64QAM	50	0	22.74	22.87	22.88	22.93	22.92	
20	64QAM	50	24	22.68	22.84	22.83	22.85	22.91	24
20	64QAM	50	50	22.66	22.86	22.79	22.82	22.94	
20	64QAM	100	0	22.68	22.85	22.82	22.84	22.93	
20	256QAM	1	0	20.74	20.80	20.78	20.94	20.88	22
20	256QAM	1	49	20.67	20.66	20.72	20.79	20.80	
20	256QAM	1	99	20.57	20.62	20.62	20.76	20.65	
20	256QAM	50	0	20.77	20.84	20.89	20.95	20.92	22
20	256QAM	50	24	20.74	20.75	20.81	20.90	20.90	
20	256QAM	50	50	20.70	20.80	20.79	20.94	20.83	
20	256QAM	100	0	20.67	20.75	20.76	20.86	20.81	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	25.44	25.58	25.78	25.65	25.69	27.00
15	QPSK	1	37	25.49	25.54	25.74	25.57	25.52	
15	QPSK	1	74	25.37	25.63	25.64	25.58	25.79	
15	QPSK	36	0	24.70	24.85	24.81	24.89	24.78	26
15	QPSK	36	20	24.71	24.79	24.72	24.91	24.96	
15	QPSK	36	39	24.66	24.79	24.76	24.71	24.93	
15	QPSK	75	0	24.63	24.70	24.71	24.74	24.87	
15	16QAM	1	0	24.79	24.93	25.05	25.10	25.13	26
15	16QAM	1	37	24.64	24.81	24.86	24.83	25.01	
15	16QAM	1	74	24.56	25.05	24.84	24.66	24.98	
15	16QAM	36	0	23.72	23.71	23.73	23.96	23.93	25
15	16QAM	36	20	23.67	23.89	23.67	23.80	23.90	
15	16QAM	36	39	23.55	23.79	23.77	23.82	23.80	
15	16QAM	75	0	23.60	23.71	23.85	23.83	23.93	
15	64QAM	1	0	23.62	23.72	23.82	23.77	23.84	25
15	64QAM	1	37	23.48	23.61	23.81	23.63	23.86	
15	64QAM	1	74	23.40	23.79	23.80	23.63	23.85	
15	64QAM	36	0	22.55	22.75	22.71	22.92	22.77	24
15	64QAM	36	20	22.52	22.82	22.63	22.83	22.77	
15	64QAM	36	39	22.64	22.68	22.59	22.78	22.90	
15	64QAM	75	0	22.53	22.67	22.73	22.80	22.82	
15	256QAM	1	0	20.65	20.79	20.66	20.93	20.78	22
15	256QAM	1	37	20.48	20.66	20.63	20.73	20.78	
15	256QAM	1	74	20.54	20.60	20.52	20.72	20.60	
15	256QAM	36	0	20.72	20.77	20.82	20.78	20.88	22
15	256QAM	36	20	20.68	20.69	20.81	20.74	20.81	
15	256QAM	36	39	20.62	20.63	20.77	20.88	20.65	



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Report No. : FA4N0920C

15	256QAM	75	0	20.49	20.64	20.61	20.81	20.61	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	25.59	25.76	25.78	25.70	25.85	27.00
10	QPSK	1	25	25.51	25.69	25.73	25.62	25.43	
10	QPSK	1	49	25.36	25.62	25.59	25.53	25.81	
10	QPSK	25	0	24.82	24.80	24.83	24.97	24.84	26
10	QPSK	25	12	24.59	24.72	24.65	24.89	24.95	
10	QPSK	25	25	24.58	24.90	24.78	24.68	24.85	
10	QPSK	50	0	24.67	24.70	24.83	24.84	24.88	
10	16QAM	1	0	24.72	25.03	25.05	24.93	25.00	26
10	16QAM	1	25	24.60	24.92	24.99	24.82	25.02	
10	16QAM	1	49	24.59	25.03	24.97	24.81	24.99	
10	16QAM	25	0	23.61	23.84	23.77	23.97	23.85	25
10	16QAM	25	12	23.66	23.90	23.85	23.73	23.81	
10	16QAM	25	25	23.54	23.82	23.63	23.70	23.81	
10	16QAM	50	0	23.66	23.68	23.81	23.80	23.80	
10	64QAM	1	0	23.56	23.81	23.91	23.93	23.80	25
10	64QAM	1	25	23.48	23.70	23.73	23.76	23.80	
10	64QAM	1	49	23.49	23.82	23.75	23.66	23.73	
10	64QAM	25	0	22.71	22.68	22.73	22.76	22.82	24
10	64QAM	25	12	22.55	22.74	22.79	22.72	22.84	
10	64QAM	25	25	22.51	22.80	22.65	22.63	22.92	
10	64QAM	50	0	22.50	22.76	22.75	22.79	22.78	
10	256QAM	1	0	20.64	20.74	20.72	20.86	20.84	22
10	256QAM	1	25	20.61	20.46	20.53	20.71	20.63	
10	256QAM	1	49	20.56	20.47	20.55	20.65	20.53	
10	256QAM	25	0	20.68	20.81	20.71	20.82	20.83	22
10	256QAM	25	12	20.56	20.70	20.76	20.82	20.70	
10	256QAM	25	25	20.64	20.71	20.68	20.84	20.68	
10	256QAM	50	0	20.56	20.69	20.59	20.67	20.78	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	25.63	25.63	25.83	25.69	25.79	27.00
5	QPSK	1	12	25.36	25.69	25.56	25.56	25.55	
5	QPSK	1	24	25.52	25.68	25.61	25.48	25.74	
5	QPSK	12	0	24.64	24.93	24.74	24.92	24.92	26
5	QPSK	12	7	24.65	24.87	24.79	24.95	24.87	
5	QPSK	12	13	24.60	24.76	24.74	24.70	24.85	
5	QPSK	25	0	24.64	24.81	24.70	24.85	24.88	
5	16QAM	1	0	24.63	24.88	24.93	25.07	24.97	26
5	16QAM	1	12	24.60	24.93	24.90	24.86	25.00	
5	16QAM	1	24	24.62	24.97	24.88	24.81	25.01	
5	16QAM	12	0	23.68	23.86	23.85	23.94	23.79	25
5	16QAM	12	7	23.59	23.86	23.85	23.79	23.95	
5	16QAM	12	13	23.58	23.72	23.66	23.84	23.96	
5	16QAM	25	0	23.57	23.76	23.73	23.83	23.91	
5	64QAM	1	0	23.65	23.66	23.74	23.90	23.91	25
5	64QAM	1	12	23.46	23.59	23.77	23.74	23.73	
5	64QAM	1	24	23.38	23.85	23.78	23.48	23.85	
5	64QAM	12	0	22.71	22.73	22.77	22.91	22.92	24
5	64QAM	12	7	22.54	22.75	22.72	22.82	22.80	
5	64QAM	12	13	22.66	22.79	22.73	22.62	22.94	
5	64QAM	25	0	22.56	22.65	22.63	22.84	22.88	
5	256QAM	1	0	20.58	20.80	20.78	20.85	20.81	22
5	256QAM	1	12	20.50	20.58	20.65	20.76	20.60	
5	256QAM	1	24	20.53	20.50	20.53	20.63	20.47	
5	256QAM	12	0	20.61	20.80	20.72	20.77	20.87	22
5	256QAM	12	7	20.55	20.67	20.81	20.78	20.82	
5	256QAM	12	13	20.58	20.74	20.62	20.90	20.70	
5	256QAM	25	0	20.63	20.60	20.75	20.82	20.75	



<LTE Band 41_Ant 2_Index 11>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	19.66	19.78	19.74	19.89	19.93	20.1
20	QPSK	1	49	19.59	19.70	19.59	19.73	19.82	
20	QPSK	1	99	19.67	19.69	19.56	19.72	19.82	
20	QPSK	50	0	19.64	19.74	19.70	19.86	19.90	20.1
20	QPSK	50	24	19.63	19.73	19.64	19.84	19.83	
20	QPSK	50	50	19.63	19.72	19.58	19.82	19.79	
20	QPSK	100	0	19.62	19.71	19.64	19.84	19.85	
20	16QAM	1	0	19.75	19.86	19.81	19.87	19.90	20.1
20	16QAM	1	49	19.65	19.80	19.65	19.82	19.91	
20	16QAM	1	99	19.69	19.80	19.60	19.81	19.86	
20	16QAM	50	0	19.70	19.83	19.74	19.89	19.84	20.1
20	16QAM	50	24	19.67	19.79	19.71	19.89	19.92	
20	16QAM	50	50	19.66	19.77	19.64	19.84	19.87	
20	16QAM	100	0	19.67	19.77	19.69	19.87	19.89	
20	64QAM	1	0	19.38	19.51	19.47	19.61	19.69	20.1
20	64QAM	1	49	19.37	19.52	19.39	19.60	19.64	
20	64QAM	1	99	19.33	19.44	19.26	19.46	19.48	
20	64QAM	50	0	19.69	19.84	19.76	19.92	19.88	20.1
20	64QAM	50	24	19.67	19.79	19.71	19.87	19.92	
20	64QAM	50	50	19.67	19.77	19.65	19.84	19.89	
20	64QAM	100	0	19.69	19.80	19.68	19.85	19.91	
20	256QAM	1	0	18.85	18.96	18.89	19.08	19.23	20
20	256QAM	1	49	18.71	18.77	18.83	19.01	19.11	
20	256QAM	1	99	18.59	18.73	18.84	18.85	18.91	
20	256QAM	50	0	19.16	19.21	19.32	19.41	19.45	20
20	256QAM	50	24	19.10	19.16	19.12	19.19	19.34	
20	256QAM	50	50	18.95	18.97	19.07	19.14	19.31	
20	256QAM	100	0	18.95	19.09	19.20	19.23	19.38	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	19.62	19.71	19.74	19.74	19.90	20.10
15	QPSK	1	37	19.59	19.60	19.53	19.68	19.62	
15	QPSK	1	74	19.67	19.64	19.41	19.72	19.74	
15	QPSK	36	0	19.62	19.55	19.69	19.77	19.80	20.1
15	QPSK	36	20	19.57	19.59	19.60	19.71	19.72	
15	QPSK	36	39	19.48	19.60	19.46	19.70	19.60	
15	QPSK	75	0	19.54	19.67	19.49	19.81	19.76	
15	16QAM	1	0	19.70	19.80	19.74	19.75	19.75	20.1
15	16QAM	1	37	19.47	19.60	19.63	19.62	19.90	
15	16QAM	1	74	19.63	19.78	19.40	19.77	19.70	
15	16QAM	36	0	19.70	19.65	19.55	19.77	19.76	20.1
15	16QAM	36	20	19.53	19.73	19.54	19.74	19.77	
15	16QAM	36	39	19.46	19.63	19.64	19.67	19.68	
15	16QAM	75	0	19.62	19.67	19.61	19.78	19.69	
15	64QAM	1	0	19.24	19.48	19.34	19.52	19.63	20.1
15	64QAM	1	37	19.28	19.33	19.39	19.43	19.51	
15	64QAM	1	74	19.30	19.29	19.21	19.28	19.35	
15	64QAM	36	0	19.69	19.67	19.73	19.77	19.82	20.1
15	64QAM	36	20	19.56	19.63	19.53	19.81	19.87	
15	64QAM	36	39	19.65	19.71	19.48	19.64	19.77	
15	64QAM	75	0	19.69	19.78	19.63	19.77	19.88	
15	256QAM	1	0	18.68	18.86	18.75	18.91	19.20	20
15	256QAM	1	37	18.61	18.68	18.63	18.81	19.05	
15	256QAM	1	74	18.59	18.67	18.64	18.81	18.87	
15	256QAM	36	0	19.03	19.09	19.29	19.37	19.39	20
15	256QAM	36	20	18.96	19.01	18.98	19.04	19.32	
15	256QAM	36	39	18.75	18.88	19.02	19.09	19.22	



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15	256QAM	75	0	18.83	18.90	19.00	19.06	19.19	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	19.51	19.72	19.63	19.79	19.90	20.10
10	QPSK	1	25	19.40	19.65	19.57	19.55	19.79	
10	QPSK	1	49	19.53	19.66	19.39	19.65	19.80	
10	QPSK	25	0	19.64	19.65	19.54	19.83	19.89	20.1
10	QPSK	25	12	19.54	19.70	19.53	19.70	19.77	
10	QPSK	25	25	19.51	19.53	19.55	19.80	19.70	
10	QPSK	50	0	19.47	19.61	19.56	19.80	19.73	
10	16QAM	1	0	19.62	19.74	19.61	19.72	19.75	20.1
10	16QAM	1	25	19.52	19.76	19.49	19.74	19.71	
10	16QAM	1	49	19.65	19.72	19.45	19.74	19.81	
10	16QAM	25	0	19.59	19.70	19.65	19.72	19.74	20.1
10	16QAM	25	12	19.61	19.62	19.58	19.81	19.72	
10	16QAM	25	25	19.60	19.63	19.45	19.79	19.81	
10	16QAM	50	0	19.47	19.63	19.56	19.80	19.80	
10	64QAM	1	0	19.28	19.42	19.42	19.60	19.62	20.1
10	64QAM	1	25	19.35	19.41	19.30	19.40	19.48	
10	64QAM	1	49	19.32	19.27	19.06	19.31	19.30	
10	64QAM	25	0	19.56	19.80	19.59	19.87	19.88	20.1
10	64QAM	25	12	19.58	19.68	19.70	19.85	19.73	
10	64QAM	25	25	19.63	19.67	19.51	19.70	19.82	
10	64QAM	50	0	19.68	19.65	19.54	19.76	19.77	
10	256QAM	1	0	18.83	18.80	18.87	19.05	19.06	20
10	256QAM	1	25	18.69	18.74	18.72	18.87	19.03	
10	256QAM	1	49	18.42	18.65	18.70	18.82	18.76	
10	256QAM	25	0	19.11	19.18	19.29	19.28	19.41	20
10	256QAM	25	12	18.91	19.13	19.10	19.03	19.19	
10	256QAM	25	25	18.79	18.79	18.92	19.07	19.23	
10	256QAM	50	0	18.84	19.02	19.07	19.21	19.18	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	19.56	19.60	19.61	19.80	19.77	20.10
5	QPSK	1	12	19.48	19.56	19.55	19.53	19.69	
5	QPSK	1	24	19.57	19.59	19.38	19.70	19.77	
5	QPSK	12	0	19.47	19.59	19.60	19.85	19.84	20.1
5	QPSK	12	7	19.49	19.58	19.56	19.68	19.79	
5	QPSK	12	13	19.61	19.69	19.49	19.74	19.76	
5	QPSK	25	0	19.46	19.54	19.60	19.77	19.75	
5	16QAM	1	0	19.75	19.85	19.72	19.74	19.73	20.1
5	16QAM	1	12	19.62	19.75	19.59	19.68	19.86	
5	16QAM	1	24	19.64	19.79	19.56	19.62	19.85	
5	16QAM	12	0	19.55	19.72	19.63	19.78	19.76	20.1
5	16QAM	12	7	19.64	19.79	19.61	19.83	19.78	
5	16QAM	12	13	19.59	19.60	19.53	19.76	19.84	
5	16QAM	25	0	19.58	19.70	19.49	19.76	19.82	
5	64QAM	1	0	19.28	19.44	19.46	19.46	19.69	20.1
5	64QAM	1	12	19.31	19.52	19.26	19.40	19.59	
5	64QAM	1	24	19.18	19.31	19.20	19.40	19.35	
5	64QAM	12	0	19.55	19.78	19.65	19.72	19.78	20.1
5	64QAM	12	7	19.66	19.77	19.52	19.75	19.76	
5	64QAM	12	13	19.64	19.69	19.52	19.75	19.83	
5	64QAM	25	0	19.63	19.62	19.61	19.70	19.81	
5	256QAM	1	0	18.70	18.88	18.87	18.88	19.08	20
5	256QAM	1	12	18.65	18.61	18.74	18.96	19.05	
5	256QAM	1	24	18.46	18.53	18.75	18.66	18.76	
5	256QAM	12	0	19.16	19.21	19.18	19.23	19.25	20
5	256QAM	12	7	18.99	19.00	18.99	19.19	19.31	
5	256QAM	12	13	18.93	18.93	19.00	19.09	19.27	
5	256QAM	25	0	18.77	19.04	19.15	19.22	19.27	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.72	23.55	23.63	23.90	24.03	24.4
20	QPSK	1	49	23.72	23.43	23.58	23.85	23.98	
20	QPSK	1	99	23.63	23.44	23.54	23.81	23.92	
20	QPSK	50	0	23.28	23.08	23.08	23.45	23.46	24
20	QPSK	50	24	23.23	23.07	23.04	23.27	23.44	
20	QPSK	50	50	23.27	22.88	23.08	23.44	23.44	
20	QPSK	100	0	23.22	23.06	23.03	23.45	23.46	
20	16QAM	1	0	23.31	23.21	23.36	23.55	23.67	24
20	16QAM	1	49	23.17	23.10	23.14	23.29	23.52	
20	16QAM	1	99	23.22	22.93	23.17	23.39	23.62	
20	16QAM	50	0	22.20	22.05	22.12	22.34	22.51	23
20	16QAM	50	24	22.36	21.94	22.06	22.38	22.54	
20	16QAM	50	50	22.33	22.07	22.11	22.27	22.54	
20	16QAM	100	0	22.28	22.06	22.07	22.39	22.40	
20	64QAM	1	0	21.92	21.74	21.86	22.12	22.15	23
20	64QAM	1	49	21.99	21.69	21.85	21.97	22.07	
20	64QAM	1	99	21.85	21.57	21.66	21.89	22.02	
20	64QAM	50	0	21.30	20.98	21.10	21.49	21.51	22
20	64QAM	50	24	21.30	20.90	21.08	21.27	21.37	
20	64QAM	50	50	21.30	20.93	21.00	21.32	21.40	
20	64QAM	100	0	21.27	21.00	21.07	21.38	21.44	
20	256QAM	1	0	19.04	18.82	18.90	19.31	19.30	20
20	256QAM	1	49	18.97	18.73	18.83	19.25	19.24	
20	256QAM	1	99	18.77	18.58	18.87	19.04	19.09	
20	256QAM	50	0	19.19	19.07	19.19	19.39	19.46	20
20	256QAM	50	24	19.17	18.94	19.06	19.50	19.42	
20	256QAM	50	50	19.07	19.02	19.16	19.26	19.47	
20	256QAM	100	0	19.23	19.09	19.19	19.28	19.34	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	23.68	23.40	23.55	23.86	23.85	24.40
15	QPSK	1	37	23.68	23.34	23.39	23.76	23.81	
15	QPSK	1	74	23.47	23.30	23.35	23.80	23.72	
15	QPSK	36	0	23.22	22.82	23.01	23.32	23.32	24
15	QPSK	36	20	23.11	22.83	22.89	23.33	23.53	
15	QPSK	36	39	23.17	22.82	23.02	23.24	23.37	
15	QPSK	75	0	23.23	22.91	22.84	23.22	23.29	
15	16QAM	1	0	23.23	22.98	23.25	23.51	23.62	24
15	16QAM	1	37	23.23	23.01	23.09	23.22	23.37	
15	16QAM	1	74	23.16	23.10	22.98	23.10	23.53	
15	16QAM	36	0	22.16	21.79	21.88	22.44	22.27	23
15	16QAM	36	20	22.24	22.08	22.02	22.36	22.48	
15	16QAM	36	39	22.06	21.97	22.01	22.20	22.36	
15	16QAM	75	0	22.14	21.95	22.09	22.45	22.29	
15	64QAM	1	0	21.75	21.65	21.85	22.08	22.20	23
15	64QAM	1	37	21.90	21.43	21.54	21.81	22.18	
15	64QAM	1	74	21.63	21.53	21.56	21.76	22.06	
15	64QAM	36	0	21.35	21.08	21.05	21.32	21.27	22
15	64QAM	36	20	21.19	20.86	20.97	21.24	21.52	
15	64QAM	36	39	21.29	20.91	20.83	21.34	21.49	
15	64QAM	75	0	21.04	20.98	20.96	21.17	21.32	
15	256QAM	1	0	18.95	18.71	18.74	19.17	19.14	20
15	256QAM	1	37	18.69	18.61	18.65	19.16	18.91	
15	256QAM	1	74	18.65	18.56	18.73	19.11	19.02	
15	256QAM	36	0	19.17	18.81	19.04	19.30	19.38	20
15	256QAM	36	20	18.99	18.92	19.03	19.35	19.35	
15	256QAM	36	39	19.03	18.73	18.98	19.33	19.19	



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15	256QAM	75	0	18.95	18.92	19.09	19.26	19.41	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	23.52	23.51	23.50	23.77	23.98	24.40
10	QPSK	1	25	23.56	23.23	23.54	23.69	23.93	
10	QPSK	1	49	23.62	23.26	23.41	23.65	23.75	
10	QPSK	25	0	23.02	22.93	23.13	23.37	23.38	24
10	QPSK	25	12	23.19	22.95	22.87	23.37	23.34	
10	QPSK	25	25	23.08	23.01	22.94	23.25	23.29	
10	QPSK	50	0	23.20	22.88	23.03	23.17	23.41	
10	16QAM	1	0	23.35	23.07	23.14	23.41	23.58	24
10	16QAM	1	25	23.28	22.94	22.99	23.26	23.42	
10	16QAM	1	49	23.06	22.88	23.10	23.15	23.48	
10	16QAM	25	0	22.23	22.00	22.12	22.34	22.49	23
10	16QAM	25	12	22.24	21.76	21.97	22.19	22.49	
10	16QAM	25	25	21.99	21.91	22.07	22.28	22.51	
10	16QAM	50	0	21.97	21.90	21.98	22.32	22.40	
10	64QAM	1	0	21.77	21.67	21.60	22.07	22.18	23
10	64QAM	1	25	21.72	21.58	21.77	21.99	22.08	
10	64QAM	1	49	21.71	21.55	21.58	21.71	21.87	
10	64QAM	25	0	21.26	20.93	20.97	21.27	21.32	22
10	64QAM	25	12	21.11	20.73	20.92	21.22	21.40	
10	64QAM	25	25	21.15	20.92	21.10	21.33	21.31	
10	64QAM	50	0	21.00	20.92	20.98	21.18	21.47	
10	256QAM	1	0	18.76	18.66	18.79	19.06	19.28	20
10	256QAM	1	25	18.86	18.75	18.68	19.12	18.96	
10	256QAM	1	49	18.67	18.51	18.69	19.15	18.97	
10	256QAM	25	0	19.13	19.08	19.26	19.42	19.37	20
10	256QAM	25	12	18.98	18.76	18.98	19.18	19.32	
10	256QAM	25	25	18.86	18.69	18.92	19.17	19.18	
10	256QAM	50	0	19.24	18.87	19.09	19.41	19.21	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	23.52	23.37	23.54	23.81	23.98	24.40
5	QPSK	1	12	23.56	23.30	23.52	23.67	23.92	
5	QPSK	1	24	23.48	23.35	23.48	23.73	23.91	
5	QPSK	12	0	23.16	22.90	23.08	23.26	23.55	24
5	QPSK	12	7	23.08	22.91	22.98	23.31	23.47	
5	QPSK	12	13	23.03	22.95	23.02	23.18	23.36	
5	QPSK	25	0	22.95	22.96	22.99	23.30	23.26	
5	16QAM	1	0	23.23	23.09	23.14	23.30	23.64	24
5	16QAM	1	12	23.07	22.86	23.08	23.19	23.54	
5	16QAM	1	24	23.24	22.75	23.02	23.40	23.45	
5	16QAM	12	0	22.03	22.02	21.96	22.28	22.51	23
5	16QAM	12	7	22.09	21.91	21.99	22.37	22.35	
5	16QAM	12	13	22.07	21.88	21.88	22.17	22.35	
5	16QAM	25	0	22.25	22.01	22.01	22.37	22.52	
5	64QAM	1	0	21.73	21.45	21.80	22.19	22.10	23
5	64QAM	1	12	21.84	21.42	21.72	21.91	22.17	
5	64QAM	1	24	21.67	21.44	21.69	21.92	21.97	
5	64QAM	12	0	21.07	20.93	21.11	21.27	21.52	22
5	64QAM	12	7	21.13	20.96	20.99	21.36	21.32	
5	64QAM	12	13	21.17	20.99	21.02	21.17	21.26	
5	64QAM	25	0	21.12	20.94	20.95	21.26	21.29	
5	256QAM	1	0	18.76	18.78	18.90	19.24	19.27	20
5	256QAM	1	12	18.70	18.71	18.74	18.96	19.02	
5	256QAM	1	24	18.68	18.54	18.62	18.83	18.91	
5	256QAM	12	0	18.98	18.91	19.06	19.33	19.30	20
5	256QAM	12	7	18.95	18.88	18.89	19.24	19.38	
5	256QAM	12	13	19.04	18.89	18.97	19.12	19.18	
5	256QAM	25	0	19.11	18.85	18.91	19.38	19.21	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.18	23.32	23.37	23.29	23.63	24.1
20	QPSK	1	49	23.12	23.32	23.29	23.25	23.61	
20	QPSK	1	99	23.11	23.29	23.14	23.20	23.58	
20	QPSK	50	0	22.78	22.95	22.91	22.92	23.28	24
20	QPSK	50	24	22.76	22.93	22.89	22.86	23.27	
20	QPSK	50	50	22.75	22.91	22.80	22.84	23.25	
20	QPSK	100	0	22.79	22.92	22.88	22.87	23.22	
20	16QAM	1	0	22.85	23.02	23.08	22.98	23.24	24
20	16QAM	1	49	22.84	22.92	22.95	22.79	23.17	
20	16QAM	1	99	22.70	22.98	22.84	22.74	23.15	
20	16QAM	50	0	21.77	21.89	21.96	21.86	22.15	23
20	16QAM	50	24	21.74	21.91	21.92	21.81	22.17	
20	16QAM	50	50	21.71	21.92	21.83	21.77	22.17	
20	16QAM	100	0	21.74	21.88	21.89	21.78	22.17	
20	64QAM	1	0	21.44	21.62	21.60	21.61	21.93	23
20	64QAM	1	49	21.44	21.65	21.58	21.56	21.88	
20	64QAM	1	99	21.40	21.66	21.37	21.44	21.79	
20	64QAM	50	0	20.79	20.93	20.88	20.89	21.23	22
20	64QAM	50	24	20.74	20.94	20.84	20.84	21.20	
20	64QAM	50	50	20.73	20.92	20.78	20.79	21.17	
20	64QAM	100	0	20.74	20.94	20.85	20.84	21.21	
20	256QAM	1	0	18.70	18.76	19.04	18.90	19.09	20
20	256QAM	1	49	18.66	18.66	18.78	18.60	19.01	
20	256QAM	1	99	18.42	18.49	18.66	18.42	18.90	
20	256QAM	50	0	18.90	18.81	19.09	18.88	19.22	20
20	256QAM	50	24	18.73	18.80	19.13	18.95	19.31	
20	256QAM	50	50	18.70	18.71	18.98	18.77	19.10	
20	256QAM	100	0	18.86	18.75	18.90	18.81	19.20	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	23.16	23.22	23.21	23.17	23.52	24.10
15	QPSK	1	37	23.12	23.16	23.12	23.14	23.59	
15	QPSK	1	74	23.09	23.15	23.06	23.20	23.39	
15	QPSK	36	0	22.73	22.78	22.80	22.86	23.18	24
15	QPSK	36	20	22.58	22.89	22.69	22.73	23.08	
15	QPSK	36	39	22.67	22.79	22.60	22.77	23.10	
15	QPSK	75	0	22.66	22.90	22.76	22.79	23.10	
15	16QAM	1	0	22.65	22.88	23.05	22.84	23.14	24
15	16QAM	1	37	22.80	22.89	22.91	22.71	23.14	
15	16QAM	1	74	22.62	22.98	22.76	22.71	23.01	
15	16QAM	36	0	21.65	21.74	21.81	21.78	22.03	23
15	16QAM	36	20	21.68	21.75	21.79	21.72	21.98	
15	16QAM	36	39	21.51	21.91	21.68	21.57	22.02	
15	16QAM	75	0	21.68	21.85	21.73	21.71	22.17	
15	64QAM	1	0	21.40	21.59	21.59	21.46	21.75	23
15	64QAM	1	37	21.38	21.45	21.47	21.39	21.88	
15	64QAM	1	74	21.37	21.50	21.24	21.33	21.69	
15	64QAM	36	0	20.65	20.93	20.86	20.78	21.21	22
15	64QAM	36	20	20.66	20.89	20.68	20.80	21.13	
15	64QAM	36	39	20.73	20.77	20.58	20.64	21.07	
15	64QAM	75	0	20.72	20.82	20.78	20.75	21.17	
15	256QAM	1	0	18.52	18.65	18.99	18.75	18.98	20
15	256QAM	1	37	18.56	18.50	18.70	18.60	18.82	
15	256QAM	1	74	18.40	18.30	18.57	18.28	18.84	
15	256QAM	36	0	18.70	18.75	18.93	18.88	19.11	20
15	256QAM	36	20	18.54	18.73	19.12	18.84	19.28	
15	256QAM	36	39	18.57	18.57	18.91	18.75	18.95	



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15	256QAM	75	0	18.76	18.61	18.79	18.66	19.05	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	23.17	23.18	23.22	23.18	23.50	24.10
10	QPSK	1	25	22.96	23.18	23.27	23.18	23.51	
10	QPSK	1	49	22.97	23.22	23.10	23.20	23.42	
10	QPSK	25	0	22.65	22.82	22.89	22.79	23.24	24
10	QPSK	25	12	22.59	22.80	22.83	22.67	23.21	
10	QPSK	25	25	22.67	22.85	22.64	22.69	23.14	
10	QPSK	50	0	22.73	22.83	22.88	22.71	23.08	
10	16QAM	1	0	22.76	22.96	23.08	22.96	23.20	24
10	16QAM	1	25	22.68	22.92	22.78	22.77	23.08	
10	16QAM	1	49	22.57	22.89	22.74	22.69	23.00	
10	16QAM	25	0	21.63	21.72	21.88	21.83	22.05	23
10	16QAM	25	12	21.64	21.82	21.86	21.77	22.06	
10	16QAM	25	25	21.58	21.88	21.82	21.61	22.10	
10	16QAM	50	0	21.68	21.73	21.88	21.67	22.02	
10	64QAM	1	0	21.32	21.53	21.40	21.49	21.90	23
10	64QAM	1	25	21.37	21.58	21.52	21.46	21.70	
10	64QAM	1	49	21.20	21.57	21.25	21.37	21.72	
10	64QAM	25	0	20.64	20.81	20.77	20.70	21.10	22
10	64QAM	25	12	20.62	20.90	20.66	20.69	21.01	
10	64QAM	25	25	20.62	20.81	20.72	20.71	21.00	
10	64QAM	50	0	20.66	20.79	20.80	20.75	21.12	
10	256QAM	1	0	18.59	18.71	18.90	18.78	19.03	20
10	256QAM	1	25	18.58	18.49	18.66	18.49	19.01	
10	256QAM	1	49	18.30	18.30	18.47	18.36	18.77	
10	256QAM	25	0	18.82	18.68	19.00	18.79	19.02	20
10	256QAM	25	12	18.62	18.70	19.08	18.75	19.22	
10	256QAM	25	25	18.61	18.55	18.81	18.59	19.06	
10	256QAM	50	0	18.70	18.61	18.78	18.72	19.00	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	23.18	23.15	23.33	23.13	23.45	24.10
5	QPSK	1	12	22.99	23.25	23.27	23.11	23.43	
5	QPSK	1	24	23.01	23.15	23.03	23.07	23.49	
5	QPSK	12	0	22.69	22.84	22.76	22.84	23.12	24
5	QPSK	12	7	22.72	22.86	22.84	22.85	23.20	
5	QPSK	12	13	22.57	22.75	22.80	22.68	23.10	
5	QPSK	25	0	22.59	22.81	22.84	22.73	23.22	
5	16QAM	1	0	22.80	22.85	23.06	22.89	23.15	24
5	16QAM	1	12	22.69	22.80	22.78	22.77	23.08	
5	16QAM	1	24	22.51	22.94	22.84	22.60	23.04	
5	16QAM	12	0	21.73	21.78	21.88	21.68	22.01	23
5	16QAM	12	7	21.54	21.75	21.86	21.79	21.97	
5	16QAM	12	13	21.70	21.74	21.71	21.63	22.10	
5	16QAM	25	0	21.62	21.68	21.70	21.77	22.15	
5	64QAM	1	0	21.34	21.44	21.59	21.55	21.82	23
5	64QAM	1	12	21.29	21.51	21.55	21.46	21.79	
5	64QAM	1	24	21.32	21.53	21.19	21.40	21.59	
5	64QAM	12	0	20.71	20.77	20.75	20.86	21.22	22
5	64QAM	12	7	20.54	20.75	20.77	20.83	21.20	
5	64QAM	12	13	20.62	20.84	20.76	20.69	21.07	
5	64QAM	25	0	20.55	20.85	20.80	20.71	21.20	
5	256QAM	1	0	18.70	18.74	18.91	18.84	19.01	20
5	256QAM	1	12	18.46	18.48	18.64	18.60	18.94	
5	256QAM	1	24	18.33	18.38	18.63	18.28	18.83	
5	256QAM	12	0	18.79	18.68	18.96	18.84	19.05	20
5	256QAM	12	7	18.73	18.80	19.03	18.82	19.20	
5	256QAM	12	13	18.56	18.65	18.86	18.62	18.97	
5	256QAM	25	0	18.86	18.55	18.71	18.64	19.10	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.83	24.00	23.92	24.09	24.16	25
20	QPSK	1	49	23.82	24.05	23.92	24.02	24.09	
20	QPSK	1	99	23.74	23.97	23.81	23.90	24.04	
20	QPSK	50	0	22.82	22.95	22.90	23.01	23.09	24
20	QPSK	50	24	22.80	22.96	22.87	23.00	23.09	
20	QPSK	50	50	22.76	22.92	22.82	22.93	23.08	
20	QPSK	100	0	22.80	22.86	22.88	22.90	23.00	24
20	16QAM	1	0	22.85	23.02	23.04	23.13	23.12	
20	16QAM	1	49	22.70	22.92	22.88	22.93	22.96	
20	16QAM	1	99	22.70	22.98	22.90	22.84	23.00	23
20	16QAM	50	0	21.81	21.93	21.94	21.99	22.00	
20	16QAM	50	24	21.77	21.93	21.92	21.93	21.98	
20	16QAM	50	50	21.73	21.93	21.87	21.87	21.99	23
20	16QAM	100	0	21.76	21.92	21.91	21.92	21.98	
20	64QAM	1	0	21.51	21.69	21.59	21.74	21.79	
20	64QAM	1	49	21.47	21.71	21.53	21.66	21.74	22
20	64QAM	1	99	21.41	21.61	21.45	21.52	21.68	
20	64QAM	50	0	20.81	20.97	20.88	21.02	21.05	
20	64QAM	50	24	20.78	20.95	20.83	20.95	21.03	20
20	64QAM	50	50	20.75	20.93	20.83	20.91	21.00	
20	64QAM	100	0	20.80	20.95	20.83	20.95	21.03	
20	256QAM	1	0	18.67	18.80	18.69	18.87	18.83	20
20	256QAM	1	49	18.49	18.70	18.60	18.75	18.73	
20	256QAM	1	99	18.47	18.61	18.55	18.69	18.64	
20	256QAM	50	0	18.83	18.89	18.88	19.05	19.00	20
20	256QAM	50	24	18.76	18.97	18.86	19.04	18.93	
20	256QAM	50	50	18.78	18.96	18.85	19.03	18.93	
20	256QAM	100	0	18.74	18.89	18.84	19.00	18.91	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	23.75	23.93	23.78	23.89	24.00	25.00
15	QPSK	1	37	23.66	23.85	23.89	24.00	24.03	
15	QPSK	1	74	23.56	23.87	23.73	23.82	24.01	
15	QPSK	36	0	22.78	22.88	22.76	22.83	23.03	24
15	QPSK	36	20	22.69	22.80	22.75	22.90	23.08	
15	QPSK	36	39	22.61	22.90	22.70	22.92	22.88	
15	QPSK	75	0	22.73	22.85	22.86	22.89	22.90	24
15	16QAM	1	0	22.65	22.93	22.94	23.02	22.93	
15	16QAM	1	37	22.65	22.82	22.78	22.91	22.77	
15	16QAM	1	74	22.58	22.87	22.85	22.75	23.00	23
15	16QAM	36	0	21.73	21.79	21.92	21.92	21.90	
15	16QAM	36	20	21.70	21.77	21.81	21.73	21.78	
15	16QAM	36	39	21.60	21.92	21.67	21.79	21.88	23
15	16QAM	75	0	21.71	21.90	21.77	21.79	21.78	
15	64QAM	1	0	21.33	21.56	21.54	21.69	21.62	
15	64QAM	1	37	21.28	21.59	21.43	21.61	21.57	22
15	64QAM	1	74	21.32	21.56	21.36	21.39	21.63	
15	64QAM	36	0	20.74	20.80	20.71	20.98	21.04	
15	64QAM	36	20	20.76	20.91	20.76	20.81	20.90	20
15	64QAM	36	39	20.65	20.75	20.82	20.82	20.94	
15	64QAM	75	0	20.70	20.77	20.74	20.87	20.87	
15	256QAM	1	0	18.59	18.66	18.50	18.72	18.82	20
15	256QAM	1	37	18.44	18.67	18.59	18.75	18.54	
15	256QAM	1	74	18.40	18.56	18.51	18.62	18.63	
15	256QAM	36	0	18.81	18.86	18.88	18.97	19.00	20
15	256QAM	36	20	18.62	18.88	18.77	18.91	18.90	
15	256QAM	36	39	18.64	18.83	18.70	18.87	18.81	



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Report No. : FA4N0920C

15	256QAM	75	0	18.73	18.87	18.65	18.86	18.88	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	23.70	24.00	23.91	23.91	23.99	25.00
10	QPSK	1	25	23.63	23.99	23.81	23.82	23.97	
10	QPSK	1	49	23.61	23.87	23.81	23.76	23.97	
10	QPSK	25	0	22.72	22.80	22.73	22.88	22.96	24
10	QPSK	25	12	22.64	22.80	22.71	22.98	23.06	
10	QPSK	25	25	22.68	22.84	22.73	22.76	23.02	
10	QPSK	50	0	22.76	22.73	22.81	22.83	22.89	
10	16QAM	1	0	22.84	22.88	22.86	23.00	22.99	24
10	16QAM	1	25	22.66	22.79	22.72	22.84	22.83	
10	16QAM	1	49	22.62	22.86	22.84	22.80	22.87	
10	16QAM	25	0	21.73	21.82	21.75	21.93	21.97	23
10	16QAM	25	12	21.75	21.88	21.73	21.84	21.92	
10	16QAM	25	25	21.54	21.73	21.72	21.74	21.86	
10	16QAM	50	0	21.57	21.87	21.77	21.91	21.88	
10	64QAM	1	0	21.35	21.58	21.43	21.59	21.67	23
10	64QAM	1	25	21.44	21.69	21.45	21.63	21.71	
10	64QAM	1	49	21.26	21.59	21.25	21.46	21.55	
10	64QAM	25	0	20.68	20.92	20.69	20.85	20.90	22
10	64QAM	25	12	20.78	20.82	20.80	20.80	20.87	
10	64QAM	25	25	20.55	20.80	20.76	20.80	20.98	
10	64QAM	50	0	20.72	20.92	20.66	20.94	20.89	
10	256QAM	1	0	18.63	18.75	18.53	18.84	18.81	20
10	256QAM	1	25	18.29	18.61	18.56	18.60	18.64	
10	256QAM	1	49	18.40	18.54	18.44	18.57	18.44	
10	256QAM	25	0	18.69	18.76	18.84	18.93	18.90	20
10	256QAM	25	12	18.62	18.95	18.69	18.95	18.75	
10	256QAM	25	25	18.66	18.89	18.79	19.00	18.74	
10	256QAM	50	0	18.57	18.85	18.80	18.98	18.78	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	23.76	23.92	23.84	23.94	24.09	25.00
5	QPSK	1	12	23.69	23.88	23.79	23.97	23.98	
5	QPSK	1	24	23.61	23.86	23.79	23.72	23.87	
5	QPSK	12	0	22.63	22.83	22.88	22.97	22.98	24
5	QPSK	12	7	22.77	22.91	22.86	22.87	23.02	
5	QPSK	12	13	22.75	22.86	22.82	22.78	23.07	
5	QPSK	25	0	22.60	22.76	22.86	22.88	22.85	
5	16QAM	1	0	22.83	22.97	22.95	22.94	22.96	24
5	16QAM	1	12	22.59	22.91	22.70	22.93	22.85	
5	16QAM	1	24	22.56	22.93	22.79	22.77	22.90	
5	16QAM	12	0	21.65	21.78	21.79	21.79	21.94	23
5	16QAM	12	7	21.74	21.78	21.85	21.86	21.94	
5	16QAM	12	13	21.66	21.83	21.82	21.86	21.91	
5	16QAM	25	0	21.63	21.85	21.81	21.74	21.97	
5	64QAM	1	0	21.50	21.56	21.59	21.62	21.71	23
5	64QAM	1	12	21.33	21.61	21.35	21.47	21.61	
5	64QAM	1	24	21.30	21.57	21.37	21.42	21.61	
5	64QAM	12	0	20.62	20.96	20.77	20.85	21.00	22
5	64QAM	12	7	20.74	20.84	20.79	20.89	20.90	
5	64QAM	12	13	20.67	20.92	20.75	20.72	20.94	
5	64QAM	25	0	20.77	20.91	20.69	20.86	20.89	
5	256QAM	1	0	18.47	18.65	18.59	18.68	18.74	20
5	256QAM	1	12	18.40	18.53	18.47	18.64	18.72	
5	256QAM	1	24	18.47	18.42	18.45	18.64	18.47	
5	256QAM	12	0	18.79	18.81	18.83	19.05	18.98	20
5	256QAM	12	7	18.64	18.83	18.81	18.96	18.74	
5	256QAM	12	13	18.69	18.89	18.82	18.90	18.90	
5	256QAM	25	0	18.71	18.77	18.67	18.97	18.85	



<LTE Band 41_HPUE_Ant 2_Index 11>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	21.06	21.21	21.11	21.27	21.38	21.7
20	QPSK	1	49	21.00	21.12	21.00	21.19	21.29	
20	QPSK	1	99	21.03	21.12	20.96	21.14	21.24	
20	QPSK	50	0	21.10	21.20	21.15	21.31	21.37	21.7
20	QPSK	50	24	21.08	21.20	21.12	21.26	21.31	
20	QPSK	50	50	21.09	21.17	21.04	21.28	21.26	
20	QPSK	100	0	21.08	21.19	21.09	21.29	21.31	
20	16QAM	1	0	21.06	21.16	21.09	21.31	21.32	21.7
20	16QAM	1	49	20.97	21.12	20.99	21.15	21.28	
20	16QAM	1	99	20.98	21.09	20.93	21.05	21.21	
20	16QAM	50	0	21.15	21.29	21.20	21.28	21.33	21.7
20	16QAM	50	24	21.16	21.26	21.18	21.37	21.37	
20	16QAM	50	50	21.14	21.24	21.12	21.33	21.34	
20	16QAM	100	0	21.12	21.25	21.15	21.36	21.28	
20	64QAM	1	0	20.85	21.02	20.95	21.09	21.21	21.7
20	64QAM	1	49	20.78	20.93	20.82	20.96	21.13	
20	64QAM	1	99	20.84	20.92	20.79	20.89	21.08	
20	64QAM	50	0	21.11	21.26	21.18	21.33	21.29	21.7
20	64QAM	50	24	21.11	21.22	21.15	21.29	21.34	
20	64QAM	50	50	21.11	21.21	21.09	21.29	21.33	
20	64QAM	100	0	21.10	21.21	21.12	21.30	21.16	
20	256QAM	1	0	20.85	21.16	21.05	21.27	21.16	21.7
20	256QAM	1	49	20.82	20.79	20.92	21.10	21.08	
20	256QAM	1	99	20.81	20.81	20.81	20.91	21.11	
20	256QAM	50	0	20.87	21.10	20.97	21.22	21.26	21.7
20	256QAM	50	24	20.86	21.12	21.01	21.08	21.21	
20	256QAM	50	50	20.92	20.98	20.86	21.06	21.01	
20	256QAM	100	0	20.86	21.13	21.01	20.98	21.09	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	21.05	21.02	20.97	21.16	21.22	21.70
15	QPSK	1	37	20.96	20.97	20.81	21.17	21.21	
15	QPSK	1	74	20.86	20.98	20.77	21.11	21.22	
15	QPSK	36	0	20.96	21.12	21.10	21.26	21.36	21.7
15	QPSK	36	20	20.99	21.16	21.08	21.14	21.31	
15	QPSK	36	39	20.99	21.04	20.99	21.25	21.13	
15	QPSK	75	0	21.03	21.15	20.95	21.23	21.28	
15	16QAM	1	0	21.01	21.10	20.91	21.25	21.17	21.7
15	16QAM	1	37	20.87	21.09	20.83	21.00	21.17	
15	16QAM	1	74	20.95	20.92	20.90	20.95	21.07	
15	16QAM	36	0	21.12	21.25	21.17	21.08	21.24	21.7
15	16QAM	36	20	21.16	21.20	21.14	21.37	21.34	
15	16QAM	36	39	20.95	21.23	21.08	21.14	21.33	
15	16QAM	75	0	20.97	21.13	20.99	21.16	21.23	
15	64QAM	1	0	20.85	21.00	20.94	21.06	21.08	21.7
15	64QAM	1	37	20.71	20.90	20.73	20.96	21.08	
15	64QAM	1	74	20.71	20.89	20.78	20.89	20.93	
15	64QAM	36	0	20.94	21.08	20.98	21.17	21.10	21.7
15	64QAM	36	20	21.01	21.08	20.95	21.26	21.14	
15	64QAM	36	39	20.92	21.19	21.04	21.18	21.32	
15	64QAM	75	0	21.05	21.08	21.07	21.16	21.05	
15	256QAM	1	0	20.85	20.98	20.97	21.15	21.04	21.7
15	256QAM	1	37	20.64	20.72	20.75	21.07	21.06	
15	256QAM	1	74	20.70	20.63	20.70	20.86	20.97	
15	256QAM	36	0	20.75	21.03	20.79	21.06	21.07	21.7
15	256QAM	36	20	20.72	20.94	20.83	21.06	21.05	
15	256QAM	36	39	20.90	20.87	20.83	21.03	21.00	



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15	256QAM	75	0	20.76	21.01	20.91	20.88	21.04	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	20.86	21.14	20.95	21.08	21.23	21.70
10	QPSK	1	25	20.93	21.02	20.82	21.11	21.22	
10	QPSK	1	49	20.96	21.12	20.85	20.97	21.09	
10	QPSK	25	0	21.05	21.01	21.11	21.30	21.21	21.7
10	QPSK	25	12	20.99	21.10	21.07	21.10	21.24	
10	QPSK	25	25	21.05	21.17	20.98	21.17	21.17	
10	QPSK	50	0	20.93	21.02	21.01	21.25	21.23	
10	16QAM	1	0	20.87	21.05	21.03	21.18	21.26	21.7
10	16QAM	1	25	20.85	21.08	20.91	20.97	21.17	
10	16QAM	1	49	20.87	20.91	20.74	20.99	21.04	
10	16QAM	25	0	21.09	21.27	21.15	21.13	21.22	21.7
10	16QAM	25	12	21.03	21.16	20.99	21.29	21.36	
10	16QAM	25	25	21.06	21.12	20.97	21.19	21.18	
10	16QAM	50	0	21.02	21.13	21.00	21.19	21.28	
10	64QAM	1	0	20.68	20.83	20.95	21.09	21.04	21.7
10	64QAM	1	25	20.61	20.86	20.62	20.95	21.05	
10	64QAM	1	49	20.70	20.86	20.78	20.85	21.05	
10	64QAM	25	0	21.04	21.26	21.17	21.33	21.28	21.7
10	64QAM	25	12	20.95	21.07	21.09	21.12	21.15	
10	64QAM	25	25	21.00	21.13	21.09	21.12	21.26	
10	64QAM	50	0	20.98	21.20	20.92	21.19	21.15	
10	256QAM	1	0	20.71	21.09	20.95	21.08	21.13	21.7
10	256QAM	1	25	20.81	20.77	20.90	20.99	20.95	
10	256QAM	1	49	20.70	20.68	20.69	20.72	20.94	
10	256QAM	25	0	20.78	21.00	20.91	21.16	21.22	21.7
10	256QAM	25	12	20.71	21.10	20.97	20.92	21.11	
10	256QAM	25	25	20.80	20.97	20.66	20.99	20.98	
10	256QAM	50	0	20.82	20.97	20.85	20.82	20.90	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	20.95	21.17	21.02	21.27	21.31	21.70
5	QPSK	1	12	20.80	20.98	20.84	21.11	21.12	
5	QPSK	1	24	20.91	21.04	20.92	21.06	21.05	
5	QPSK	12	0	21.02	21.16	21.11	21.25	21.28	21.7
5	QPSK	12	7	20.88	21.11	20.97	21.16	21.12	
5	QPSK	12	13	20.94	21.12	20.97	21.23	21.25	
5	QPSK	25	0	21.03	21.10	20.89	21.23	21.28	
5	16QAM	1	0	21.06	21.05	20.96	21.27	21.22	21.7
5	16QAM	1	12	20.93	20.97	20.96	21.01	21.27	
5	16QAM	1	24	20.78	21.04	20.74	20.90	21.09	
5	16QAM	12	0	21.14	21.15	21.09	21.20	21.15	21.7
5	16QAM	12	7	21.13	21.07	21.14	21.18	21.36	
5	16QAM	12	13	21.01	21.20	21.05	21.21	21.25	
5	16QAM	25	0	20.97	21.15	21.15	21.19	21.12	
5	64QAM	1	0	20.69	20.90	20.92	20.97	21.21	21.7
5	64QAM	1	12	20.60	20.80	20.75	20.88	20.96	
5	64QAM	1	24	20.65	20.75	20.59	20.74	20.95	
5	64QAM	12	0	20.92	21.17	20.98	21.29	21.22	21.7
5	64QAM	12	7	21.07	21.13	21.05	21.18	21.33	
5	64QAM	12	13	21.03	21.05	21.07	21.23	21.21	
5	64QAM	25	0	20.90	21.06	21.02	21.26	21.06	
5	256QAM	1	0	20.82	21.02	20.91	21.26	21.15	21.7
5	256QAM	1	12	20.71	20.61	20.82	21.00	21.08	
5	256QAM	1	24	20.65	20.66	20.74	20.72	20.98	
5	256QAM	12	0	20.86	20.95	20.79	21.06	21.06	21.7
5	256QAM	12	7	20.78	21.07	20.84	21.01	21.19	
5	256QAM	12	13	20.84	20.84	20.85	20.92	21.01	
5	256QAM	25	0	20.84	20.94	20.91	20.83	21.09	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.40	25.24	25.50	25.62	25.76	26.1
20	QPSK	1	49	25.35	25.14	25.38	25.52	25.65	
20	QPSK	1	99	25.33	25.22	25.36	25.50	25.61	
20	QPSK	50	0	25.30	25.01	24.99	25.36	25.44	26
20	QPSK	50	24	25.30	24.91	24.93	25.32	25.43	
20	QPSK	50	50	25.11	24.89	24.92	25.26	25.40	
20	QPSK	100	0	25.12	24.89	25.06	25.28	25.39	
20	16QAM	1	0	25.23	25.04	25.35	25.50	25.53	26
20	16QAM	1	49	25.12	24.91	25.30	25.41	25.44	
20	16QAM	1	99	25.19	25.08	25.20	25.36	25.54	
20	16QAM	50	0	24.14	23.96	24.02	24.37	24.48	25
20	16QAM	50	24	24.27	23.90	23.99	24.34	24.49	
20	16QAM	50	50	24.10	23.95	23.97	24.29	24.42	
20	16QAM	100	0	24.11	23.84	24.07	24.38	24.44	
20	64QAM	1	0	23.99	23.84	23.99	24.18	24.45	25
20	64QAM	1	49	24.09	23.78	24.03	24.17	24.29	
20	64QAM	1	99	23.87	23.86	23.94	24.16	24.21	
20	64QAM	50	0	23.08	22.97	22.96	23.33	23.29	24
20	64QAM	50	24	23.12	22.80	22.94	23.26	23.24	
20	64QAM	50	50	23.13	22.93	22.85	23.20	23.25	
20	64QAM	100	0	23.15	22.76	23.03	23.27	23.34	
20	256QAM	1	0	21.19	21.01	21.02	21.26	21.48	22
20	256QAM	1	49	20.94	20.77	20.91	21.14	21.40	
20	256QAM	1	99	20.92	20.64	20.77	21.09	21.17	
20	256QAM	50	0	21.06	21.05	21.09	21.38	21.53	22
20	256QAM	50	24	21.12	20.85	20.96	21.18	21.39	
20	256QAM	50	50	21.00	20.90	20.97	21.26	21.45	
20	256QAM	100	0	20.99	20.93	20.97	21.24	21.46	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	25.34	25.05	25.32	25.50	25.61	26.10
15	QPSK	1	37	25.18	25.07	25.19	25.50	25.61	
15	QPSK	1	74	25.23	25.17	25.21	25.49	25.41	
15	QPSK	36	0	25.12	24.84	24.92	25.26	25.37	26
15	QPSK	36	20	25.04	24.89	24.91	25.16	25.40	
15	QPSK	36	39	25.03	24.78	24.85	25.33	25.18	
15	QPSK	75	0	25.07	24.80	24.92	25.26	25.37	
15	16QAM	1	0	24.92	24.87	25.41	25.52	25.46	26
15	16QAM	1	37	24.95	24.89	25.14	25.21	25.49	
15	16QAM	1	74	25.08	25.01	25.18	25.16	25.39	
15	16QAM	36	0	24.02	23.79	23.91	24.20	24.32	25
15	16QAM	36	20	24.09	23.99	24.00	24.18	24.12	
15	16QAM	36	39	23.89	23.99	23.85	24.06	24.26	
15	16QAM	75	0	23.96	23.87	23.81	24.21	24.17	
15	64QAM	1	0	23.92	23.93	23.99	24.13	24.48	25
15	64QAM	1	37	23.88	23.61	23.92	24.02	24.36	
15	64QAM	1	74	23.79	23.74	23.89	24.14	24.20	
15	64QAM	36	0	23.03	22.73	22.92	23.12	23.31	24
15	64QAM	36	20	22.87	22.65	22.65	23.08	23.30	
15	64QAM	36	39	22.92	22.67	22.74	23.22	23.23	
15	64QAM	75	0	23.11	22.76	22.89	23.23	23.17	
15	256QAM	1	0	21.04	20.75	20.82	21.42	21.46	22
15	256QAM	1	37	20.75	20.73	20.83	20.95	21.25	
15	256QAM	1	74	20.66	20.64	20.83	21.03	21.21	
15	256QAM	36	0	20.98	20.87	21.06	21.16	21.37	22
15	256QAM	36	20	20.93	20.91	21.02	21.05	21.23	
15	256QAM	36	39	20.93	20.72	20.90	21.25	21.23	



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15	256QAM	75	0	20.91	20.78	20.97	21.11	21.36	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	25.29	25.13	25.49	25.60	25.65	26.10
10	QPSK	1	25	25.35	25.10	25.21	25.36	25.65	
10	QPSK	1	49	25.30	25.12	25.16	25.30	25.54	
10	QPSK	25	0	24.99	24.81	24.90	25.19	25.48	26
10	QPSK	25	12	25.20	24.85	24.93	25.31	25.12	
10	QPSK	25	25	25.03	25.00	24.85	25.14	25.29	
10	QPSK	50	0	24.97	24.84	24.72	25.25	25.26	
10	16QAM	1	0	25.09	25.00	25.13	25.28	25.48	26
10	16QAM	1	25	25.22	24.70	25.06	25.18	25.36	
10	16QAM	1	49	25.08	24.82	25.23	25.28	25.44	
10	16QAM	25	0	24.07	23.91	24.08	24.09	24.37	25
10	16QAM	25	12	23.91	23.95	23.85	24.34	24.34	
10	16QAM	25	25	24.05	23.74	23.75	24.17	24.43	
10	16QAM	50	0	24.09	23.75	23.99	24.25	24.38	
10	64QAM	1	0	23.94	23.86	24.03	24.13	24.32	25
10	64QAM	1	25	23.76	23.59	23.79	23.89	24.20	
10	64QAM	1	49	23.90	23.62	23.77	23.89	24.13	
10	64QAM	25	0	23.05	22.66	23.03	23.16	23.20	24
10	64QAM	25	12	22.96	22.76	22.83	23.07	23.27	
10	64QAM	25	25	23.08	22.73	22.88	23.04	23.33	
10	64QAM	50	0	22.98	22.65	22.73	23.18	23.05	
10	256QAM	1	0	21.06	20.88	20.81	21.13	21.50	22
10	256QAM	1	25	20.91	20.72	20.87	20.96	21.28	
10	256QAM	1	49	20.89	20.66	20.82	21.00	21.07	
10	256QAM	25	0	21.13	20.97	20.86	21.25	21.28	22
10	256QAM	25	12	21.05	20.82	20.89	21.15	21.30	
10	256QAM	25	25	20.82	20.63	21.02	21.32	21.30	
10	256QAM	50	0	20.90	20.82	20.88	21.05	21.40	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	25.33	25.17	25.34	25.44	25.70	26.10
5	QPSK	1	12	25.28	25.09	25.31	25.50	25.58	
5	QPSK	1	24	25.32	25.02	25.36	25.40	25.59	
5	QPSK	12	0	25.22	24.97	25.02	25.12	25.40	26
5	QPSK	12	7	25.06	24.81	24.93	25.13	25.19	
5	QPSK	12	13	25.08	24.75	24.81	25.24	25.31	
5	QPSK	25	0	25.01	24.84	24.97	25.27	25.32	
5	16QAM	1	0	24.96	24.99	25.28	25.46	25.43	26
5	16QAM	1	12	24.92	24.98	25.16	25.13	25.43	
5	16QAM	1	24	24.97	24.83	25.06	25.32	25.34	
5	16QAM	12	0	24.04	23.76	23.88	24.20	24.49	25
5	16QAM	12	7	24.12	23.93	24.06	24.12	24.24	
5	16QAM	12	13	24.01	23.84	23.92	24.20	24.31	
5	16QAM	25	0	24.00	23.72	23.91	24.24	24.27	
5	64QAM	1	0	24.00	23.80	23.89	24.17	24.27	25
5	64QAM	1	12	23.92	23.63	23.87	23.96	24.35	
5	64QAM	1	24	23.94	23.66	23.70	24.00	24.05	
5	64QAM	12	0	23.03	22.75	22.89	23.11	23.35	24
5	64QAM	12	7	22.89	22.85	22.91	22.98	23.20	
5	64QAM	12	13	22.94	22.65	22.90	23.17	23.15	
5	64QAM	25	0	22.86	22.90	22.88	23.12	23.11	
5	256QAM	1	0	21.14	20.88	20.95	21.22	21.28	22
5	256QAM	1	12	20.90	20.66	20.77	20.96	21.16	
5	256QAM	1	24	20.79	20.58	20.73	20.97	21.05	
5	256QAM	12	0	21.15	20.82	20.93	21.11	21.31	22
5	256QAM	12	7	20.97	20.88	20.78	21.15	21.24	
5	256QAM	12	13	20.83	20.76	21.09	21.19	21.23	
5	256QAM	25	0	20.97	20.59	20.83	21.10	21.39	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.23	25.35	25.49	25.34	25.69	25.8
20	QPSK	1	49	25.12	25.34	25.37	25.20	25.60	
20	QPSK	1	99	25.12	25.41	25.30	25.16	25.59	
20	QPSK	50	0	25.41	25.52	25.54	25.51	25.66	25.8
20	QPSK	50	24	25.35	25.52	25.49	25.47	25.65	
20	QPSK	50	50	25.32	25.55	25.44	25.40	25.64	
20	QPSK	100	0	25.32	25.46	25.45	25.47	25.67	25.8
20	16QAM	1	0	24.91	25.08	25.26	25.04	25.42	
20	16QAM	1	49	24.89	25.11	25.19	24.92	25.37	
20	16QAM	1	99	24.85	25.14	25.06	24.92	25.26	25
20	16QAM	50	0	23.87	23.98	24.06	23.95	24.27	
20	16QAM	50	24	23.83	24.00	24.02	23.90	24.26	
20	16QAM	50	50	23.79	24.01	23.96	23.87	24.25	25
20	16QAM	100	0	23.79	23.97	23.97	23.89	24.23	
20	64QAM	1	0	23.71	23.90	24.04	23.90	24.19	
20	64QAM	1	49	23.67	23.91	23.95	23.77	24.19	24
20	64QAM	1	99	23.66	23.98	23.86	23.69	24.14	
20	64QAM	50	0	22.79	22.94	22.98	22.90	23.16	
20	64QAM	50	24	22.77	22.94	22.95	22.85	23.16	22
20	64QAM	50	50	22.75	22.98	22.92	22.81	23.21	
20	64QAM	100	0	22.74	22.92	22.95	22.84	23.22	
20	256QAM	1	0	20.81	20.77	20.89	21.05	21.05	22
20	256QAM	1	49	20.65	20.88	20.84	20.93	21.09	
20	256QAM	1	99	20.61	20.69	20.67	20.78	20.91	
20	256QAM	50	0	20.72	20.93	21.09	21.08	21.10	22
20	256QAM	50	24	20.76	20.79	20.97	20.99	21.19	
20	256QAM	50	50	20.65	20.87	20.99	20.77	21.12	
20	256QAM	100	0	20.61	20.75	20.98	20.86	21.09	Tune-up limit (dBm)
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	25.14	25.27	25.33	25.26	25.56	
15	QPSK	1	37	25.10	25.14	25.34	25.02	25.60	25.80
15	QPSK	1	74	25.05	25.41	25.26	25.15	25.52	
15	QPSK	36	0	25.40	25.51	25.54	25.38	25.58	
15	QPSK	36	20	25.27	25.41	25.32	25.36	25.57	25.8
15	QPSK	36	39	25.28	25.55	25.38	25.33	25.53	
15	QPSK	75	0	25.30	25.39	25.40	25.30	25.62	
15	16QAM	1	0	24.76	24.92	25.12	24.91	25.34	25.8
15	16QAM	1	37	24.76	24.98	25.11	24.80	25.20	
15	16QAM	1	74	24.82	24.98	25.04	24.73	25.15	
15	16QAM	36	0	23.84	23.89	23.94	23.83	24.23	25
15	16QAM	36	20	23.80	23.86	23.98	23.83	24.07	
15	16QAM	36	39	23.78	23.97	23.82	23.83	24.17	
15	16QAM	75	0	23.66	23.86	23.85	23.87	24.11	25
15	64QAM	1	0	23.69	23.74	23.98	23.82	24.02	
15	64QAM	1	37	23.56	23.76	23.78	23.57	24.12	
15	64QAM	1	74	23.50	23.88	23.75	23.64	23.94	24
15	64QAM	36	0	22.74	22.86	22.85	22.72	23.00	
15	64QAM	36	20	22.76	22.91	22.84	22.72	22.98	
15	64QAM	36	39	22.67	22.84	22.92	22.74	23.02	22
15	64QAM	75	0	22.64	22.90	22.86	22.78	23.13	
15	256QAM	1	0	20.71	20.73	20.80	20.88	20.97	
15	256QAM	1	37	20.65	20.82	20.84	20.86	20.95	22
15	256QAM	1	74	20.42	20.59	20.48	20.67	20.78	
15	256QAM	36	0	20.59	20.79	21.01	20.89	20.96	
15	256QAM	36	20	20.62	20.69	20.79	20.88	21.01	22
15	256QAM	36	39	20.51	20.73	20.91	20.68	21.00	



FCC SAR TEST REPORT

Report No. : FA4N0920C

15	256QAM	75	0	20.57	20.75	20.88	20.67	20.91	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	25.07	25.30	25.49	25.23	25.60	25.80
10	QPSK	1	25	25.00	25.30	25.34	25.19	25.42	
10	QPSK	1	49	24.96	25.35	25.18	25.01	25.55	
10	QPSK	25	0	25.30	25.41	25.38	25.47	25.64	25.8
10	QPSK	25	12	25.15	25.45	25.35	25.47	25.65	
10	QPSK	25	25	25.24	25.54	25.43	25.24	25.49	
10	QPSK	50	0	25.22	25.33	25.31	25.42	25.56	
10	16QAM	1	0	24.88	24.97	25.07	24.99	25.37	25.8
10	16QAM	1	25	24.83	24.97	25.12	24.84	25.21	
10	16QAM	1	49	24.78	24.98	24.90	24.82	25.22	
10	16QAM	25	0	23.87	23.87	23.98	23.82	24.18	25
10	16QAM	25	12	23.74	23.92	23.83	23.83	24.19	
10	16QAM	25	25	23.67	23.97	23.79	23.75	24.14	
10	16QAM	50	0	23.68	23.83	23.86	23.75	24.13	
10	64QAM	1	0	23.67	23.86	23.92	23.79	24.12	25
10	64QAM	1	25	23.62	23.83	23.80	23.66	24.19	
10	64QAM	1	49	23.57	23.88	23.81	23.65	24.10	
10	64QAM	25	0	22.64	22.82	22.79	22.77	23.07	24
10	64QAM	25	12	22.66	22.75	22.77	22.72	22.98	
10	64QAM	25	25	22.63	22.85	22.87	22.79	23.12	
10	64QAM	50	0	22.64	22.90	22.90	22.67	23.22	
10	256QAM	1	0	20.74	20.65	20.69	20.85	21.02	22
10	256QAM	1	25	20.54	20.78	20.76	20.77	20.90	
10	256QAM	1	49	20.56	20.49	20.64	20.73	20.78	
10	256QAM	25	0	20.55	20.86	20.97	20.88	21.07	22
10	256QAM	25	12	20.59	20.61	20.87	20.87	21.15	
10	256QAM	25	25	20.56	20.85	20.93	20.66	20.94	
10	256QAM	50	0	20.42	20.72	20.82	20.76	20.99	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	25.09	25.15	25.40	25.21	25.63	25.80
5	QPSK	1	12	24.92	25.33	25.26	25.18	25.41	
5	QPSK	1	24	25.06	25.26	25.25	25.08	25.58	
5	QPSK	12	0	25.37	25.46	25.42	25.32	25.64	25.8
5	QPSK	12	7	25.24	25.35	25.42	25.38	25.46	
5	QPSK	12	13	25.30	25.49	25.42	25.40	25.50	
5	QPSK	25	0	25.20	25.30	25.35	25.37	25.62	
5	16QAM	1	0	24.72	25.05	25.10	24.87	25.23	25.8
5	16QAM	1	12	24.89	24.92	25.10	24.89	25.27	
5	16QAM	1	24	24.70	24.94	24.91	24.88	25.21	
5	16QAM	12	0	23.82	23.84	23.93	23.82	24.19	25
5	16QAM	12	7	23.72	23.93	23.87	23.87	24.24	
5	16QAM	12	13	23.73	23.93	23.77	23.82	24.12	
5	16QAM	25	0	23.78	23.86	23.81	23.78	24.11	
5	64QAM	1	0	23.61	23.81	23.85	23.72	23.99	25
5	64QAM	1	12	23.62	23.80	23.88	23.74	24.04	
5	64QAM	1	24	23.51	23.79	23.67	23.53	24.13	
5	64QAM	12	0	22.61	22.82	22.88	22.75	23.06	24
5	64QAM	12	7	22.72	22.89	22.82	22.72	23.12	
5	64QAM	12	13	22.66	22.88	22.85	22.81	23.09	
5	64QAM	25	0	22.67	22.82	22.82	22.72	23.05	
5	256QAM	1	0	20.80	20.73	20.86	21.00	21.00	22
5	256QAM	1	12	20.61	20.81	20.66	20.78	20.92	
5	256QAM	1	24	20.45	20.65	20.50	20.76	20.79	
5	256QAM	12	0	20.69	20.77	20.94	20.92	21.08	22
5	256QAM	12	7	20.61	20.61	20.89	20.92	21.06	
5	256QAM	12	13	20.62	20.86	20.88	20.75	20.98	
5	256QAM	25	0	20.51	20.60	20.94	20.72	21.02	



<LTE Band 41_HPUE_Ant 5_Index 11>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.63	25.77	25.88	25.85	25.89	27
20	QPSK	1	49	25.51	25.73	25.76	25.69	25.61	
20	QPSK	1	99	25.53	25.81	25.72	25.64	25.82	
20	QPSK	50	0	24.84	24.96	24.89	25.02	24.98	26
20	QPSK	50	24	24.77	24.90	24.85	24.96	24.97	
20	QPSK	50	50	24.71	24.90	24.82	24.87	24.97	
20	QPSK	100	0	24.71	24.89	24.86	24.94	24.97	
20	16QAM	1	0	24.82	25.07	25.13	25.12	25.16	26
20	16QAM	1	49	24.75	24.99	25.00	24.92	25.14	
20	16QAM	1	99	24.74	25.07	24.97	24.86	25.05	
20	16QAM	50	0	23.77	23.91	23.90	23.98	23.98	25
20	16QAM	50	24	23.72	23.90	23.87	23.92	23.98	
20	16QAM	50	50	23.68	23.91	23.83	23.85	23.97	
20	16QAM	100	0	23.70	23.88	23.85	23.90	23.97	
20	64QAM	1	0	23.67	23.83	23.94	23.95	23.98	25
20	64QAM	1	49	23.57	23.79	23.83	23.76	23.88	
20	64QAM	1	99	23.58	23.85	23.80	23.66	23.88	
20	64QAM	50	0	22.74	22.87	22.88	22.93	22.92	
20	64QAM	50	24	22.68	22.84	22.83	22.85	22.91	24
20	64QAM	50	50	22.66	22.86	22.79	22.82	22.94	
20	64QAM	100	0	22.68	22.85	22.82	22.84	22.93	
20	256QAM	1	0	20.74	20.80	20.78	20.94	20.88	22
20	256QAM	1	49	20.67	20.66	20.72	20.79	20.80	
20	256QAM	1	99	20.57	20.62	20.62	20.76	20.65	
20	256QAM	50	0	20.77	20.84	20.89	20.95	20.92	22
20	256QAM	50	24	20.74	20.75	20.81	20.90	20.90	
20	256QAM	50	50	20.70	20.80	20.79	20.94	20.83	
20	256QAM	100	0	20.67	20.75	20.76	20.86	20.81	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	25.44	25.58	25.78	25.65	25.69	27.00
15	QPSK	1	37	25.49	25.54	25.74	25.57	25.52	
15	QPSK	1	74	25.37	25.63	25.64	25.58	25.79	
15	QPSK	36	0	24.70	24.85	24.81	24.89	24.78	26
15	QPSK	36	20	24.71	24.79	24.72	24.91	24.96	
15	QPSK	36	39	24.66	24.79	24.76	24.71	24.93	
15	QPSK	75	0	24.63	24.70	24.71	24.74	24.87	
15	16QAM	1	0	24.79	24.93	25.05	25.10	25.13	26
15	16QAM	1	37	24.64	24.81	24.86	24.83	25.01	
15	16QAM	1	74	24.56	25.05	24.84	24.66	24.98	
15	16QAM	36	0	23.72	23.71	23.73	23.96	23.93	25
15	16QAM	36	20	23.67	23.89	23.67	23.80	23.90	
15	16QAM	36	39	23.55	23.79	23.77	23.82	23.80	
15	16QAM	75	0	23.60	23.71	23.85	23.83	23.93	
15	64QAM	1	0	23.62	23.72	23.82	23.77	23.84	25
15	64QAM	1	37	23.48	23.61	23.81	23.63	23.86	
15	64QAM	1	74	23.40	23.79	23.80	23.63	23.85	
15	64QAM	36	0	22.55	22.75	22.71	22.92	22.77	24
15	64QAM	36	20	22.52	22.82	22.63	22.83	22.77	
15	64QAM	36	39	22.64	22.68	22.59	22.78	22.90	
15	64QAM	75	0	22.53	22.67	22.73	22.80	22.82	
15	256QAM	1	0	20.65	20.79	20.66	20.93	20.78	22
15	256QAM	1	37	20.48	20.66	20.63	20.73	20.78	
15	256QAM	1	74	20.54	20.60	20.52	20.72	20.60	
15	256QAM	36	0	20.72	20.77	20.82	20.78	20.88	22
15	256QAM	36	20	20.68	20.69	20.81	20.74	20.81	
15	256QAM	36	39	20.62	20.63	20.77	20.88	20.65	



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Report No. : FA4N0920C

15	256QAM	75	0	20.49	20.64	20.61	20.81	20.61	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	25.59	25.76	25.78	25.70	25.85	27.00
10	QPSK	1	25	25.51	25.69	25.73	25.62	25.43	
10	QPSK	1	49	25.36	25.62	25.59	25.53	25.81	
10	QPSK	25	0	24.82	24.80	24.83	24.97	24.84	26
10	QPSK	25	12	24.59	24.72	24.65	24.89	24.95	
10	QPSK	25	25	24.58	24.90	24.78	24.68	24.85	
10	QPSK	50	0	24.67	24.70	24.83	24.84	24.88	
10	16QAM	1	0	24.72	25.03	25.05	24.93	25.00	26
10	16QAM	1	25	24.60	24.92	24.99	24.82	25.02	
10	16QAM	1	49	24.59	25.03	24.97	24.81	24.99	
10	16QAM	25	0	23.61	23.84	23.77	23.97	23.85	25
10	16QAM	25	12	23.66	23.90	23.85	23.73	23.81	
10	16QAM	25	25	23.54	23.82	23.63	23.70	23.81	
10	16QAM	50	0	23.66	23.68	23.81	23.80	23.80	
10	64QAM	1	0	23.56	23.81	23.91	23.93	23.80	25
10	64QAM	1	25	23.48	23.70	23.73	23.76	23.80	
10	64QAM	1	49	23.49	23.82	23.75	23.66	23.73	
10	64QAM	25	0	22.71	22.68	22.73	22.76	22.82	24
10	64QAM	25	12	22.55	22.74	22.79	22.72	22.84	
10	64QAM	25	25	22.51	22.80	22.65	22.63	22.92	
10	64QAM	50	0	22.50	22.76	22.75	22.79	22.78	
10	256QAM	1	0	20.64	20.74	20.72	20.86	20.84	22
10	256QAM	1	25	20.61	20.46	20.53	20.71	20.63	
10	256QAM	1	49	20.56	20.47	20.55	20.65	20.53	
10	256QAM	25	0	20.68	20.81	20.71	20.82	20.83	22
10	256QAM	25	12	20.56	20.70	20.76	20.82	20.70	
10	256QAM	25	25	20.64	20.71	20.68	20.84	20.68	
10	256QAM	50	0	20.56	20.69	20.59	20.67	20.78	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	25.63	25.63	25.83	25.69	25.79	27.00
5	QPSK	1	12	25.36	25.69	25.56	25.56	25.55	
5	QPSK	1	24	25.52	25.68	25.61	25.48	25.74	
5	QPSK	12	0	24.64	24.93	24.74	24.92	24.92	26
5	QPSK	12	7	24.65	24.87	24.79	24.95	24.87	
5	QPSK	12	13	24.60	24.76	24.74	24.70	24.85	
5	QPSK	25	0	24.64	24.81	24.70	24.85	24.88	
5	16QAM	1	0	24.63	24.88	24.93	25.07	24.97	26
5	16QAM	1	12	24.60	24.93	24.90	24.86	25.00	
5	16QAM	1	24	24.62	24.97	24.88	24.81	25.01	
5	16QAM	12	0	23.68	23.86	23.85	23.94	23.79	25
5	16QAM	12	7	23.59	23.86	23.85	23.79	23.95	
5	16QAM	12	13	23.58	23.72	23.66	23.84	23.96	
5	16QAM	25	0	23.57	23.76	23.73	23.83	23.91	
5	64QAM	1	0	23.65	23.66	23.74	23.90	23.91	25
5	64QAM	1	12	23.46	23.59	23.77	23.74	23.73	
5	64QAM	1	24	23.38	23.85	23.78	23.48	23.85	
5	64QAM	12	0	22.71	22.73	22.77	22.91	22.92	24
5	64QAM	12	7	22.54	22.75	22.72	22.82	22.80	
5	64QAM	12	13	22.66	22.79	22.73	22.62	22.94	
5	64QAM	25	0	22.56	22.65	22.63	22.84	22.88	
5	256QAM	1	0	20.58	20.80	20.78	20.85	20.81	22
5	256QAM	1	12	20.50	20.58	20.65	20.76	20.60	
5	256QAM	1	24	20.53	20.50	20.53	20.63	20.47	
5	256QAM	12	0	20.61	20.80	20.72	20.77	20.87	22
5	256QAM	12	7	20.55	20.67	20.81	20.78	20.82	
5	256QAM	12	13	20.58	20.74	20.62	20.90	20.70	
5	256QAM	25	0	20.63	20.60	20.75	20.82	20.75	



<LTE Band 48_Ant 6_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	23.57	23.62	23.54	23.67	24.5
20	QPSK	1	49	23.55	23.56	23.59	23.61	
20	QPSK	1	99	23.59	23.63	23.58	23.54	
20	QPSK	50	0	22.53	22.72	22.66	22.69	23.5
20	QPSK	50	24	22.53	22.60	22.65	22.67	
20	QPSK	50	50	22.52	22.60	22.53	22.66	
20	QPSK	100	0	22.52	22.60	22.54	22.67	
20	16QAM	1	0	22.58	22.67	22.59	22.75	23.5
20	16QAM	1	49	22.60	22.67	22.62	22.75	
20	16QAM	1	99	22.52	22.58	22.53	22.67	
20	16QAM	50	0	21.52	21.62	21.55	21.68	22.5
20	16QAM	50	24	21.53	21.60	21.55	21.68	
20	16QAM	50	50	21.51	21.60	21.55	21.67	
20	16QAM	100	0	21.55	21.63	21.58	21.70	
20	64QAM	1	0	21.25	21.35	21.24	21.43	22.5
20	64QAM	1	49	21.25	21.34	21.26	21.41	
20	64QAM	1	99	21.20	21.14	21.22	21.35	
20	64QAM	50	0	20.60	20.69	20.62	20.75	21.5
20	64QAM	50	24	20.58	20.67	20.60	20.74	
20	64QAM	50	50	20.59	20.64	20.55	20.74	
20	64QAM	100	0	20.55	20.64	20.58	20.70	
20	256QAM	1	0	18.32	18.48	18.33	18.42	19.5
20	256QAM	1	49	18.15	18.30	18.18	18.30	
20	256QAM	1	99	18.25	18.36	18.21	18.39	
20	256QAM	50	0	18.49	18.64	18.57	18.58	19.5
20	256QAM	50	24	18.46	18.63	18.51	18.56	
20	256QAM	50	50	18.49	18.70	18.54	18.64	
20	256QAM	100	0	18.43	18.55	18.48	18.56	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	23.55	23.59	23.54	23.53	24.5
15	QPSK	1	37	23.49	23.51	23.41	23.43	
15	QPSK	1	74	23.46	23.46	23.55	23.50	
15	QPSK	36	0	22.50	22.63	22.52	22.63	23.5
15	QPSK	36	20	22.33	22.58	22.59	22.60	
15	QPSK	36	39	22.46	22.52	22.49	22.66	
15	QPSK	75	0	22.45	22.51	22.40	22.58	
15	16QAM	1	0	22.50	22.58	22.56	22.67	23.5
15	16QAM	1	37	22.55	22.52	22.49	22.59	
15	16QAM	1	74	22.51	22.52	22.36	22.52	
15	16QAM	36	0	21.37	21.49	21.41	21.49	22.5
15	16QAM	36	20	21.40	21.41	21.38	21.59	
15	16QAM	36	39	21.44	21.59	21.35	21.57	
15	16QAM	75	0	21.39	21.46	21.56	21.57	
15	64QAM	1	0	21.19	21.17	21.22	21.31	22.5
15	64QAM	1	37	21.21	21.23	21.23	21.28	
15	64QAM	1	74	21.14	21.01	21.21	21.15	
15	64QAM	36	0	20.49	20.61	20.56	20.67	21.5
15	64QAM	36	20	20.38	20.65	20.53	20.74	
15	64QAM	36	39	20.54	20.44	20.47	20.54	
15	64QAM	75	0	20.36	20.60	20.57	20.61	
15	256QAM	1	0	18.21	18.47	18.26	18.24	19.5
15	256QAM	1	37	17.95	18.17	18.06	18.24	
15	256QAM	1	74	18.07	18.18	18.13	18.20	
15	256QAM	36	0	18.33	18.59	18.45	18.58	19.5
15	256QAM	36	20	18.28	18.51	18.40	18.50	
15	256QAM	36	39	18.43	18.50	18.52	18.56	



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15	256QAM	75	0	18.28	18.38	18.42	18.45	Tune-up limit (dBm)
Channel				55290	55815	56165	56690	
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	23.52	23.46	23.44	23.56	24.5
10	QPSK	1	25	23.48	23.39	23.52	23.53	
10	QPSK	1	49	23.44	23.44	23.57	23.48	
10	QPSK	25	0	22.46	22.67	22.66	22.55	23.5
10	QPSK	25	12	22.47	22.59	22.55	22.50	
10	QPSK	25	25	22.39	22.48	22.46	22.48	
10	QPSK	50	0	22.50	22.54	22.37	22.63	23.5
10	16QAM	1	0	22.52	22.61	22.57	22.68	
10	16QAM	1	25	22.53	22.60	22.61	22.56	
10	16QAM	1	49	22.40	22.46	22.45	22.67	22.5
10	16QAM	25	0	21.52	21.47	21.41	21.67	
10	16QAM	25	12	21.48	21.50	21.48	21.48	
10	16QAM	25	25	21.40	21.60	21.50	21.48	22.5
10	16QAM	50	0	21.39	21.51	21.51	21.52	
10	64QAM	1	0	21.24	21.32	21.20	21.34	
10	64QAM	1	25	21.15	21.15	21.24	21.35	22.5
10	64QAM	1	49	21.05	20.94	21.14	21.22	
10	64QAM	25	0	20.50	20.67	20.46	20.66	
10	64QAM	25	12	20.57	20.66	20.40	20.74	21.5
10	64QAM	25	25	20.58	20.58	20.51	20.74	
10	64QAM	50	0	20.52	20.53	20.48	20.59	
10	256QAM	1	0	18.25	18.43	18.18	18.39	19.5
10	256QAM	1	25	18.14	18.28	18.18	18.30	
10	256QAM	1	49	18.17	18.34	18.21	18.39	
10	256QAM	25	0	18.42	18.56	18.47	18.45	19.5
10	256QAM	25	12	18.30	18.54	18.44	18.55	
10	256QAM	25	25	18.45	18.53	18.46	18.61	
10	256QAM	50	0	18.26	18.41	18.40	18.53	Tune-up limit (dBm)
Channel				55265	55810	56170	56715	
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	23.49	23.43	23.48	23.62	24.5
5	QPSK	1	12	23.48	23.52	23.42	23.52	
5	QPSK	1	24	23.39	23.58	23.47	23.34	
5	QPSK	12	0	22.40	22.72	22.56	22.55	23.5
5	QPSK	12	7	22.39	22.60	22.59	22.61	
5	QPSK	12	13	22.32	22.46	22.42	22.59	
5	QPSK	25	0	22.48	22.56	22.47	22.56	23.5
5	16QAM	1	0	22.42	22.60	22.43	22.74	
5	16QAM	1	12	22.41	22.47	22.53	22.69	
5	16QAM	1	24	22.33	22.57	22.38	22.54	22.5
5	16QAM	12	0	21.33	21.60	21.41	21.54	
5	16QAM	12	7	21.36	21.43	21.35	21.68	
5	16QAM	12	13	21.35	21.49	21.51	21.56	22.5
5	16QAM	25	0	21.52	21.44	21.41	21.61	
5	64QAM	1	0	21.16	21.30	21.07	21.34	
5	64QAM	1	12	21.20	21.26	21.17	21.38	22.5
5	64QAM	1	24	21.09	21.04	21.09	21.30	
5	64QAM	12	0	20.51	20.56	20.60	20.62	
5	64QAM	12	7	20.39	20.66	20.60	20.58	21.5
5	64QAM	12	13	20.49	20.45	20.44	20.63	
5	64QAM	25	0	20.38	20.54	20.58	20.60	
5	256QAM	1	0	18.18	18.34	18.29	18.23	19.5
5	256QAM	1	12	18.12	18.22	18.17	18.28	
5	256QAM	1	24	18.17	18.33	18.02	18.31	
5	256QAM	12	0	18.37	18.51	18.56	18.56	19.5
5	256QAM	12	7	18.46	18.62	18.44	18.55	
5	256QAM	12	13	18.33	18.54	18.53	18.51	
5	256QAM	25	0	18.28	18.39	18.32	18.45	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	16.98	16.93	16.91	16.85	18.2
20	QPSK	1	49	16.87	16.73	16.67	16.67	
20	QPSK	1	99	16.69	16.82	16.73	16.70	
20	QPSK	50	0	16.90	16.72	16.71	16.81	18.2
20	QPSK	50	24	16.74	16.79	16.81	16.72	
20	QPSK	50	50	16.84	16.78	16.77	16.75	
20	QPSK	100	0	16.87	16.79	16.76	16.68	
20	16QAM	1	0	16.71	16.75	16.74	16.91	18.2
20	16QAM	1	49	16.81	16.81	16.69	16.83	
20	16QAM	1	99	16.77	16.81	16.72	16.76	
20	16QAM	50	0	16.76	16.78	16.77	16.83	
20	16QAM	50	24	16.75	16.70	16.73	16.73	18.2
20	16QAM	50	50	16.82	16.72	16.66	16.77	
20	16QAM	100	0	16.83	16.61	16.71	16.67	
20	64QAM	1	0	16.40	16.35	16.43	16.35	18.2
20	64QAM	1	49	16.71	16.73	16.59	16.60	
20	64QAM	1	99	16.46	16.41	16.43	16.26	
20	64QAM	50	0	16.75	16.80	16.78	16.84	
20	64QAM	50	24	16.76	16.73	16.75	16.76	18.2
20	64QAM	50	50	16.73	16.66	16.69	16.82	
20	64QAM	100	0	16.89	16.68	16.76	16.74	
20	256QAM	1	0	16.32	16.12	16.21	16.23	18.2
20	256QAM	1	49	16.63	16.55	16.40	16.39	
20	256QAM	1	99	16.28	16.21	16.18	16.18	
20	256QAM	50	0	16.70	16.66	16.60	16.69	18.2
20	256QAM	50	24	16.67	16.61	16.52	16.67	
20	256QAM	50	50	16.65	16.45	16.63	16.60	
20	256QAM	100	0	16.82	16.62	16.61	16.69	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	16.89	16.72	16.70	16.74	18.2
15	QPSK	1	37	16.66	16.52	16.43	16.49	
15	QPSK	1	74	16.48	16.61	16.58	16.64	
15	QPSK	36	0	16.79	16.52	16.46	16.66	18.2
15	QPSK	36	20	16.64	16.65	16.57	16.62	
15	QPSK	36	39	16.72	16.64	16.64	16.67	
15	QPSK	75	0	16.70	16.56	16.66	16.52	
15	16QAM	1	0	16.51	16.53	16.64	16.74	18.2
15	16QAM	1	37	16.62	16.67	16.64	16.67	
15	16QAM	1	74	16.62	16.60	16.58	16.51	
15	16QAM	36	0	16.58	16.67	16.63	16.64	18.2
15	16QAM	36	20	16.66	16.62	16.60	16.48	
15	16QAM	36	39	16.62	16.61	16.61	16.58	
15	16QAM	75	0	16.68	16.40	16.63	16.43	
15	64QAM	1	0	16.21	16.22	16.22	16.14	18.2
15	64QAM	1	37	16.66	16.57	16.36	16.38	
15	64QAM	1	74	16.21	16.19	16.31	16.16	
15	64QAM	36	0	16.52	16.73	16.72	16.74	18.2
15	64QAM	36	20	16.64	16.63	16.66	16.69	
15	64QAM	36	39	16.59	16.55	16.44	16.75	
15	64QAM	75	0	16.78	16.48	16.59	16.63	
15	256QAM	1	0	16.24	16.05	16.06	16.04	18.2
15	256QAM	1	37	16.51	16.32	16.29	16.26	
15	256QAM	1	74	16.18	16.13	16.13	16.01	
15	256QAM	36	0	16.55	16.46	16.43	16.61	18.2
15	256QAM	36	20	16.54	16.40	16.39	16.61	
15	256QAM	36	39	16.52	16.23	16.49	16.46	



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15	256QAM	75	0	16.70	16.54	16.51	16.48	Tune-up limit (dBm)
Channel				55290	55815	56165	56690	
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	16.79	16.68	16.82	16.69	18.2
10	QPSK	1	25	16.81	16.51	16.48	16.57	
10	QPSK	1	49	16.63	16.59	16.60	16.48	
10	QPSK	25	0	16.74	16.55	16.56	16.57	18.2
10	QPSK	25	12	16.50	16.57	16.74	16.52	
10	QPSK	25	25	16.59	16.54	16.64	16.63	
10	QPSK	50	0	16.76	16.71	16.51	16.45	18.2
10	16QAM	1	0	16.49	16.58	16.69	16.69	
10	16QAM	1	25	16.60	16.57	16.55	16.68	
10	16QAM	1	49	16.58	16.76	16.60	16.65	18.2
10	16QAM	25	0	16.55	16.54	16.58	16.77	
10	16QAM	25	12	16.66	16.64	16.61	16.56	
10	16QAM	25	25	16.57	16.57	16.48	16.72	18.2
10	16QAM	50	0	16.74	16.42	16.48	16.52	
10	64QAM	1	0	16.15	16.26	16.38	16.19	
10	64QAM	1	25	16.53	16.57	16.53	16.52	18.2
10	64QAM	1	49	16.41	16.27	16.24	16.18	
10	64QAM	25	0	16.60	16.63	16.53	16.71	
10	64QAM	25	12	16.68	16.51	16.65	16.57	18.2
10	64QAM	25	25	16.48	16.44	16.50	16.70	
10	64QAM	50	0	16.68	16.61	16.55	16.49	
10	256QAM	1	0	16.08	15.88	16.07	15.99	18.2
10	256QAM	1	25	16.58	16.43	16.20	16.25	
10	256QAM	1	49	16.04	16.06	16.03	16.02	
10	256QAM	25	0	16.54	16.58	16.37	16.45	18.2
10	256QAM	25	12	16.60	16.50	16.29	16.48	
10	256QAM	25	25	16.51	16.24	16.53	16.40	
10	256QAM	50	0	16.66	16.57	16.49	16.57	Tune-up limit (dBm)
Channel				55265	55810	56170	56715	
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	16.78	16.77	16.74	16.61	18.2
5	QPSK	1	12	16.80	16.60	16.60	16.54	
5	QPSK	1	24	16.58	16.72	16.49	16.60	
5	QPSK	12	0	16.70	16.58	16.52	16.58	18.2
5	QPSK	12	7	16.63	16.69	16.68	16.55	
5	QPSK	12	13	16.70	16.54	16.72	16.50	
5	QPSK	25	0	16.62	16.70	16.53	16.48	18.2
5	16QAM	1	0	16.55	16.70	16.57	16.85	
5	16QAM	1	12	16.57	16.65	16.52	16.77	
5	16QAM	1	24	16.56	16.62	16.60	16.60	18.2
5	16QAM	12	0	16.70	16.54	16.57	16.78	
5	16QAM	12	7	16.51	16.55	16.58	16.51	
5	16QAM	12	13	16.72	16.63	16.52	16.63	18.2
5	16QAM	25	0	16.63	16.55	16.62	16.56	
5	64QAM	1	0	16.26	16.11	16.23	16.17	
5	64QAM	1	12	16.47	16.66	16.37	16.36	18.2
5	64QAM	1	24	16.38	16.30	16.35	16.17	
5	64QAM	12	0	16.70	16.62	16.54	16.62	
5	64QAM	12	7	16.57	16.67	16.67	16.71	18.2
5	64QAM	12	13	16.66	16.53	16.64	16.65	
5	64QAM	25	0	16.80	16.45	16.71	16.60	
5	256QAM	1	0	16.24	16.00	16.04	16.03	18.2
5	256QAM	1	12	16.57	16.42	16.29	16.24	
5	256QAM	1	24	16.09	16.08	16.02	16.01	
5	256QAM	12	0	16.56	16.59	16.44	16.46	18.2
5	256QAM	12	7	16.57	16.54	16.38	16.59	
5	256QAM	12	13	16.46	16.23	16.42	16.52	
5	256QAM	25	0	16.76	16.43	16.50	16.45	



<LTE Band 48_Ant 2_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	22.74	23.05	22.67	22.83	24.2
20	QPSK	1	49	22.72	22.79	22.78	22.96	
20	QPSK	1	99	22.81	22.78	22.72	22.92	
20	QPSK	50	0	21.84	22.00	21.71	21.95	23.2
20	QPSK	50	24	21.84	21.94	21.70	21.97	
20	QPSK	50	50	21.89	21.95	21.70	21.88	
20	QPSK	100	0	21.87	21.96	21.70	21.85	
20	16QAM	1	0	21.85	22.03	21.69	21.86	23.2
20	16QAM	1	49	21.89	21.94	21.67	21.87	
20	16QAM	1	99	21.93	21.89	21.69	21.91	
20	16QAM	50	0	20.89	21.02	20.72	20.88	22.2
20	16QAM	50	24	20.92	20.99	20.71	20.89	
20	16QAM	50	50	20.94	20.95	20.72	20.90	
20	16QAM	100	0	20.91	20.98	20.71	20.87	
20	64QAM	1	0	20.57	20.64	20.42	20.55	22.2
20	64QAM	1	49	20.70	20.71	20.45	20.62	
20	64QAM	1	99	20.64	20.58	20.37	20.60	
20	64QAM	50	0	19.94	20.07	19.76	19.92	21.2
20	64QAM	50	24	19.95	20.01	19.73	19.92	
20	64QAM	50	50	19.98	19.98	19.75	19.92	
20	64QAM	100	0	19.94	20.02	19.74	19.92	
20	256QAM	1	0	17.75	17.88	17.60	17.72	19.2
20	256QAM	1	49	17.60	17.75	17.41	17.58	
20	256QAM	1	99	17.60	17.69	17.41	17.58	
20	256QAM	50	0	17.88	18.04	17.75	17.86	19.2
20	256QAM	50	24	17.92	18.04	17.74	17.86	
20	256QAM	50	50	17.91	18.03	17.73	17.83	
20	256QAM	100	0	17.79	17.92	17.73	17.85	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	22.69	22.93	22.66	22.67	24.2
15	QPSK	1	37	22.53	22.65	22.64	22.84	
15	QPSK	1	74	22.74	22.70	22.66	22.89	
15	QPSK	36	0	21.70	21.87	21.63	21.78	23.2
15	QPSK	36	20	21.72	21.84	21.69	21.83	
15	QPSK	36	39	21.79	21.94	21.59	21.72	
15	QPSK	75	0	21.80	21.91	21.54	21.78	
15	16QAM	1	0	21.82	21.89	21.59	21.84	23.2
15	16QAM	1	37	21.70	21.86	21.61	21.82	
15	16QAM	1	74	21.91	21.71	21.54	21.86	
15	16QAM	36	0	20.70	20.89	20.70	20.79	22.2
15	16QAM	36	20	20.74	20.90	20.66	20.73	
15	16QAM	36	39	20.77	20.80	20.71	20.74	
15	16QAM	75	0	20.89	20.98	20.55	20.76	
15	64QAM	1	0	20.49	20.46	20.42	20.40	22.2
15	64QAM	1	37	20.69	20.63	20.29	20.46	
15	64QAM	1	74	20.49	20.47	20.27	20.60	
15	64QAM	36	0	19.90	19.95	19.74	19.85	21.2
15	64QAM	36	20	19.93	19.82	19.71	19.72	
15	64QAM	36	39	19.83	19.91	19.70	19.72	
15	64QAM	75	0	19.80	19.95	19.60	19.72	
15	256QAM	1	0	17.63	17.80	17.54	17.66	19.2
15	256QAM	1	37	17.46	17.58	17.21	17.47	
15	256QAM	1	74	17.48	17.56	17.30	17.58	
15	256QAM	36	0	17.82	18.02	17.65	17.68	19.2
15	256QAM	36	20	17.75	17.87	17.74	17.74	
15	256QAM	36	39	17.74	17.98	17.71	17.79	



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15	256QAM	75	0	17.68	17.84	17.64	17.79	Tune-up limit (dBm)
Channel				55290	55815	56165	56690	
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	22.71	22.93	22.60	22.80	24.2
10	QPSK	1	25	22.67	22.77	22.67	22.95	
10	QPSK	1	49	22.75	22.63	22.58	22.81	
10	QPSK	25	0	21.74	21.84	21.68	21.76	23.2
10	QPSK	25	12	21.65	21.76	21.56	21.86	
10	QPSK	25	25	21.79	21.88	21.54	21.79	
10	QPSK	50	0	21.83	21.94	21.69	21.66	23.2
10	16QAM	1	0	21.71	22.02	21.68	21.67	
10	16QAM	1	25	21.84	21.81	21.54	21.81	
10	16QAM	1	49	21.81	21.73	21.61	21.78	22.2
10	16QAM	25	0	20.80	20.88	20.58	20.81	
10	16QAM	25	12	20.86	20.92	20.71	20.79	
10	16QAM	25	25	20.77	20.92	20.57	20.90	22.2
10	16QAM	50	0	20.73	20.95	20.64	20.81	
10	64QAM	1	0	20.42	20.50	20.24	20.51	
10	64QAM	1	25	20.59	20.58	20.25	20.59	22.2
10	64QAM	1	49	20.52	20.41	20.24	20.47	
10	64QAM	25	0	19.81	19.93	19.68	19.88	
10	64QAM	25	12	19.85	19.96	19.66	19.82	21.2
10	64QAM	25	25	19.81	19.78	19.75	19.74	
10	64QAM	50	0	19.91	19.85	19.66	19.83	
10	256QAM	1	0	17.63	17.78	17.59	17.72	19.2
10	256QAM	1	25	17.57	17.70	17.26	17.52	
10	256QAM	1	49	17.49	17.65	17.29	17.56	
10	256QAM	25	0	17.88	18.04	17.67	17.86	19.2
10	256QAM	25	12	17.83	17.92	17.65	17.80	
10	256QAM	25	25	17.90	17.90	17.64	17.83	
10	256QAM	50	0	17.72	17.72	17.73	17.68	Tune-up limit (dBm)
Channel				55265	55810	56170	56715	
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	22.64	22.88	22.51	22.81	24.2
5	QPSK	1	12	22.64	22.76	22.65	22.77	
5	QPSK	1	24	22.67	22.71	22.55	22.87	
5	QPSK	12	0	21.82	21.95	21.59	21.81	23.2
5	QPSK	12	7	21.64	21.94	21.60	21.91	
5	QPSK	12	13	21.89	21.86	21.66	21.86	
5	QPSK	25	0	21.85	21.78	21.57	21.71	23.2
5	16QAM	1	0	21.83	21.99	21.65	21.72	
5	16QAM	1	12	21.72	21.89	21.65	21.69	
5	16QAM	1	24	21.78	21.76	21.56	21.90	22.2
5	16QAM	12	0	20.87	20.93	20.65	20.75	
5	16QAM	12	7	20.85	20.96	20.55	20.80	
5	16QAM	12	13	20.74	20.92	20.57	20.71	22.2
5	16QAM	25	0	20.77	20.86	20.65	20.67	
5	64QAM	1	0	20.55	20.49	20.26	20.52	
5	64QAM	1	12	20.58	20.57	20.32	20.48	22.2
5	64QAM	1	24	20.63	20.53	20.34	20.51	
5	64QAM	12	0	19.77	19.93	19.60	19.79	
5	64QAM	12	7	19.82	20.00	19.59	19.75	21.2
5	64QAM	12	13	19.91	19.89	19.62	19.86	
5	64QAM	25	0	19.87	19.82	19.71	19.76	
5	256QAM	1	0	17.67	17.69	17.58	17.66	19.2
5	256QAM	1	12	17.49	17.62	17.37	17.42	
5	256QAM	1	24	17.41	17.58	17.21	17.53	
5	256QAM	12	0	17.86	18.04	17.62	17.73	19.2
5	256QAM	12	7	17.81	18.01	17.64	17.80	
5	256QAM	12	13	17.76	17.96	17.61	17.83	
5	256QAM	25	0	17.60	17.89	17.69	17.81	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	22.81	22.94	22.64	22.83	24.2
20	QPSK	1	49	22.79	22.82	22.61	22.75	
20	QPSK	1	99	22.93	22.84	22.76	22.82	
20	QPSK	50	0	21.90	22.03	21.81	21.95	23.2
20	QPSK	50	24	21.93	21.99	21.84	21.95	
20	QPSK	50	50	21.96	21.97	21.85	21.94	
20	QPSK	100	0	21.93	22.01	21.83	21.95	
20	16QAM	1	0	22.16	22.30	21.99	22.07	23.2
20	16QAM	1	49	21.69	22.15	21.94	22.08	
20	16QAM	1	99	22.26	22.18	22.08	22.14	
20	16QAM	50	0	20.98	21.10	20.85	20.99	22.2
20	16QAM	50	24	21.00	21.07	20.87	20.99	
20	16QAM	50	50	21.02	21.04	20.91	20.97	
20	16QAM	100	0	20.98	21.06	20.86	20.97	
20	64QAM	1	0	20.86	21.05	20.73	20.89	22.2
20	64QAM	1	49	20.85	20.87	20.82	20.83	
20	64QAM	1	99	20.92	20.87	20.78	20.82	
20	64QAM	50	0	19.92	20.04	19.81	19.96	21.2
20	64QAM	50	24	19.94	20.00	19.83	19.96	
20	64QAM	50	50	19.98	19.98	19.86	19.95	
20	64QAM	100	0	19.94	19.98	19.83	19.94	
20	256QAM	1	0	17.90	18.03	17.75	17.95	19.2
20	256QAM	1	49	17.77	17.89	17.68	17.82	
20	256QAM	1	99	17.81	17.95	17.63	17.88	
20	256QAM	50	0	17.92	18.12	17.83	18.04	19.2
20	256QAM	50	24	17.95	18.05	17.75	17.93	
20	256QAM	50	50	17.89	18.01	17.72	17.92	
20	256QAM	100	0	17.84	17.98	17.72	17.94	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	22.65	22.89	22.51	22.70	24.2
15	QPSK	1	37	22.62	22.80	22.61	22.70	
15	QPSK	1	74	22.86	22.79	22.62	22.66	
15	QPSK	36	0	21.78	21.87	21.79	21.88	23.2
15	QPSK	36	20	21.84	21.81	21.75	21.87	
15	QPSK	36	39	21.93	21.93	21.73	21.83	
15	QPSK	75	0	21.79	22.00	21.75	21.78	
15	16QAM	1	0	22.15	22.13	21.96	21.87	23.2
15	16QAM	1	37	21.55	22.03	21.79	21.98	
15	16QAM	1	74	22.21	22.11	22.08	22.01	
15	16QAM	36	0	20.82	21.09	20.65	20.79	22.2
15	16QAM	36	20	20.84	20.88	20.83	20.80	
15	16QAM	36	39	20.97	20.91	20.81	20.93	
15	16QAM	75	0	20.81	21.01	20.67	20.78	
15	64QAM	1	0	20.81	20.89	20.68	20.81	22.2
15	64QAM	1	37	20.72	20.79	20.80	20.75	
15	64QAM	1	74	20.78	20.83	20.78	20.62	
15	64QAM	36	0	19.82	19.98	19.79	19.86	21.2
15	64QAM	36	20	19.86	19.86	19.76	19.91	
15	64QAM	36	39	19.85	19.94	19.81	19.75	
15	64QAM	75	0	19.90	19.84	19.69	19.76	
15	256QAM	1	0	17.78	17.94	17.58	17.88	19.2
15	256QAM	1	37	17.61	17.77	17.54	17.62	
15	256QAM	1	74	17.68	17.94	17.62	17.77	
15	256QAM	36	0	17.81	18.12	17.64	17.97	19.2
15	256QAM	36	20	17.93	17.85	17.71	17.89	
15	256QAM	36	39	17.89	17.94	17.59	17.87	



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15	256QAM	75	0	17.72	17.97	17.56	17.84	Tune-up limit (dBm)
Channel				55290	55815	56165	56690	
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	22.77	22.91	22.52	22.71	24.2
10	QPSK	1	25	22.71	22.74	22.56	22.73	
10	QPSK	1	49	22.78	22.76	22.58	22.68	
10	QPSK	25	0	21.80	21.85	21.64	21.78	23.2
10	QPSK	25	12	21.85	21.86	21.65	21.80	
10	QPSK	25	25	21.91	21.77	21.68	21.78	
10	QPSK	50	0	21.92	21.98	21.74	21.78	23.2
10	16QAM	1	0	22.12	22.25	21.93	22.07	
10	16QAM	1	25	21.60	22.06	21.81	21.91	
10	16QAM	1	49	22.15	22.08	21.95	21.97	22.2
10	16QAM	25	0	20.98	20.90	20.77	20.86	
10	16QAM	25	12	20.83	20.93	20.80	20.94	
10	16QAM	25	25	21.02	21.04	20.85	20.93	22.2
10	16QAM	50	0	20.92	20.87	20.86	20.78	
10	64QAM	1	0	20.68	21.01	20.65	20.88	
10	64QAM	1	25	20.78	20.85	20.74	20.73	22.2
10	64QAM	1	49	20.77	20.68	20.64	20.68	
10	64QAM	25	0	19.77	19.93	19.66	19.86	
10	64QAM	25	12	19.88	19.95	19.65	19.83	21.2
10	64QAM	25	25	19.81	19.97	19.81	19.88	
10	64QAM	50	0	19.77	19.80	19.77	19.89	
10	256QAM	1	0	17.76	17.96	17.75	17.78	19.2
10	256QAM	1	25	17.70	17.75	17.61	17.81	
10	256QAM	1	49	17.71	17.90	17.51	17.76	
10	256QAM	25	0	17.87	18.11	17.82	17.94	19.2
10	256QAM	25	12	17.83	17.96	17.60	17.86	
10	256QAM	25	25	17.74	17.90	17.54	17.75	
10	256QAM	50	0	17.81	17.85	17.70	17.88	Tune-up limit (dBm)
Channel				55265	55810	56170	56715	
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	22.72	22.81	22.47	22.78	24.2
5	QPSK	1	12	22.61	22.70	22.54	22.70	
5	QPSK	1	24	22.93	22.75	22.59	22.67	
5	QPSK	12	0	21.84	21.85	21.64	21.76	23.2
5	QPSK	12	7	21.90	21.79	21.81	21.81	
5	QPSK	12	13	21.76	21.89	21.72	21.90	
5	QPSK	25	0	21.79	21.83	21.68	21.94	23.2
5	16QAM	1	0	22.07	22.26	21.81	21.92	
5	16QAM	1	12	21.52	21.96	21.87	21.92	
5	16QAM	1	24	22.19	22.13	21.91	21.95	22.2
5	16QAM	12	0	20.85	20.99	20.81	20.80	
5	16QAM	12	7	20.84	20.97	20.76	20.94	
5	16QAM	12	13	20.94	21.02	20.84	20.77	22.2
5	16QAM	25	0	20.85	20.93	20.70	20.80	
5	64QAM	1	0	20.80	21.05	20.53	20.76	
5	64QAM	1	12	20.69	20.76	20.62	20.81	21.2
5	64QAM	1	24	20.91	20.87	20.77	20.82	
5	64QAM	12	0	19.83	20.02	19.68	19.96	
5	64QAM	12	7	19.91	19.92	19.83	19.86	19.2
5	64QAM	12	13	19.93	19.78	19.66	19.89	
5	64QAM	25	0	19.79	19.86	19.79	19.94	
5	256QAM	1	0	17.86	17.85	17.61	17.84	19.2
5	256QAM	1	12	17.71	17.81	17.67	17.67	
5	256QAM	1	24	17.65	17.92	17.53	17.86	
5	256QAM	12	0	17.80	18.11	17.69	18.02	19.2
5	256QAM	12	7	17.78	17.93	17.70	17.80	
5	256QAM	12	13	17.76	17.94	17.52	17.91	
5	256QAM	25	0	17.70	17.79	17.54	17.81	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	23.57	23.62	23.54	23.67	24.5
20	QPSK	1	49	23.55	23.56	23.59	23.61	
20	QPSK	1	99	23.59	23.63	23.58	23.54	
20	QPSK	50	0	22.53	22.72	22.66	22.69	23.5
20	QPSK	50	24	22.53	22.60	22.65	22.67	
20	QPSK	50	50	22.52	22.60	22.53	22.66	
20	QPSK	100	0	22.52	22.60	22.54	22.67	
20	16QAM	1	0	22.58	22.67	22.59	22.75	23.5
20	16QAM	1	49	22.60	22.67	22.62	22.75	
20	16QAM	1	99	22.52	22.58	22.53	22.67	
20	16QAM	50	0	21.52	21.62	21.55	21.68	22.5
20	16QAM	50	24	21.53	21.60	21.55	21.68	
20	16QAM	50	50	21.51	21.60	21.55	21.67	
20	16QAM	100	0	21.55	21.63	21.58	21.70	
20	64QAM	1	0	21.25	21.35	21.24	21.43	22.5
20	64QAM	1	49	21.25	21.34	21.26	21.41	
20	64QAM	1	99	21.20	21.14	21.22	21.35	
20	64QAM	50	0	20.60	20.69	20.62	20.75	21.5
20	64QAM	50	24	20.58	20.67	20.60	20.74	
20	64QAM	50	50	20.59	20.64	20.55	20.74	
20	64QAM	100	0	20.55	20.64	20.58	20.70	
20	256QAM	1	0	18.32	18.48	18.33	18.42	19.5
20	256QAM	1	49	18.15	18.30	18.18	18.30	
20	256QAM	1	99	18.25	18.36	18.21	18.39	
20	256QAM	50	0	18.49	18.64	18.57	18.58	19.5
20	256QAM	50	24	18.46	18.63	18.51	18.56	
20	256QAM	50	50	18.49	18.70	18.54	18.64	
20	256QAM	100	0	18.43	18.55	18.48	18.56	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	23.55	23.59	23.54	23.53	24.5
15	QPSK	1	37	23.49	23.51	23.41	23.43	
15	QPSK	1	74	23.46	23.46	23.55	23.50	
15	QPSK	36	0	22.50	22.63	22.52	22.63	23.5
15	QPSK	36	20	22.33	22.58	22.59	22.60	
15	QPSK	36	39	22.46	22.52	22.49	22.66	
15	QPSK	75	0	22.45	22.51	22.40	22.58	
15	16QAM	1	0	22.50	22.58	22.56	22.67	23.5
15	16QAM	1	37	22.55	22.52	22.49	22.59	
15	16QAM	1	74	22.51	22.52	22.36	22.52	
15	16QAM	36	0	21.37	21.49	21.41	21.49	22.5
15	16QAM	36	20	21.40	21.41	21.38	21.59	
15	16QAM	36	39	21.44	21.59	21.35	21.57	
15	16QAM	75	0	21.39	21.46	21.56	21.57	
15	64QAM	1	0	21.19	21.17	21.22	21.31	22.5
15	64QAM	1	37	21.21	21.23	21.23	21.28	
15	64QAM	1	74	21.14	21.01	21.21	21.15	
15	64QAM	36	0	20.49	20.61	20.56	20.67	21.5
15	64QAM	36	20	20.38	20.65	20.53	20.74	
15	64QAM	36	39	20.54	20.44	20.47	20.54	
15	64QAM	75	0	20.36	20.60	20.57	20.61	
15	256QAM	1	0	18.21	18.47	18.26	18.24	19.5
15	256QAM	1	37	17.95	18.17	18.06	18.24	
15	256QAM	1	74	18.07	18.18	18.13	18.20	
15	256QAM	36	0	18.33	18.59	18.45	18.58	19.5
15	256QAM	36	20	18.28	18.51	18.40	18.50	
15	256QAM	36	39	18.43	18.50	18.52	18.56	



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15	256QAM	75	0	18.28	18.38	18.42	18.45	Tune-up limit (dBm)
Channel				55290	55815	56165	56690	
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	23.52	23.46	23.44	23.56	24.5
10	QPSK	1	25	23.48	23.39	23.52	23.53	
10	QPSK	1	49	23.44	23.44	23.57	23.48	
10	QPSK	25	0	22.46	22.67	22.66	22.55	23.5
10	QPSK	25	12	22.47	22.59	22.55	22.50	
10	QPSK	25	25	22.39	22.48	22.46	22.48	
10	QPSK	50	0	22.50	22.54	22.37	22.63	23.5
10	16QAM	1	0	22.52	22.61	22.57	22.68	
10	16QAM	1	25	22.53	22.60	22.61	22.56	
10	16QAM	1	49	22.40	22.46	22.45	22.67	22.5
10	16QAM	25	0	21.52	21.47	21.41	21.67	
10	16QAM	25	12	21.48	21.50	21.48	21.48	
10	16QAM	25	25	21.40	21.60	21.50	21.48	22.5
10	16QAM	50	0	21.39	21.51	21.51	21.52	
10	64QAM	1	0	21.24	21.32	21.20	21.34	
10	64QAM	1	25	21.15	21.15	21.24	21.35	22.5
10	64QAM	1	49	21.05	20.94	21.14	21.22	
10	64QAM	25	0	20.50	20.67	20.46	20.66	
10	64QAM	25	12	20.57	20.66	20.40	20.74	21.5
10	64QAM	25	25	20.58	20.58	20.51	20.74	
10	64QAM	50	0	20.52	20.53	20.48	20.59	
10	256QAM	1	0	18.25	18.43	18.18	18.39	19.5
10	256QAM	1	25	18.14	18.28	18.18	18.30	
10	256QAM	1	49	18.17	18.34	18.21	18.39	
10	256QAM	25	0	18.42	18.56	18.47	18.45	19.5
10	256QAM	25	12	18.30	18.54	18.44	18.55	
10	256QAM	25	25	18.45	18.53	18.46	18.61	
10	256QAM	50	0	18.26	18.41	18.40	18.53	Tune-up limit (dBm)
Channel				55265	55810	56170	56715	
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	23.49	23.43	23.48	23.62	24.5
5	QPSK	1	12	23.48	23.52	23.42	23.52	
5	QPSK	1	24	23.39	23.58	23.47	23.34	
5	QPSK	12	0	22.40	22.72	22.56	22.55	23.5
5	QPSK	12	7	22.39	22.60	22.59	22.61	
5	QPSK	12	13	22.32	22.46	22.42	22.59	
5	QPSK	25	0	22.48	22.56	22.47	22.56	23.5
5	16QAM	1	0	22.42	22.60	22.43	22.74	
5	16QAM	1	12	22.41	22.47	22.53	22.69	
5	16QAM	1	24	22.33	22.57	22.38	22.54	22.5
5	16QAM	12	0	21.33	21.60	21.41	21.54	
5	16QAM	12	7	21.36	21.43	21.35	21.68	
5	16QAM	12	13	21.35	21.49	21.51	21.56	22.5
5	16QAM	25	0	21.52	21.44	21.41	21.61	
5	64QAM	1	0	21.16	21.30	21.07	21.34	
5	64QAM	1	12	21.20	21.26	21.17	21.38	22.5
5	64QAM	1	24	21.09	21.04	21.09	21.30	
5	64QAM	12	0	20.51	20.56	20.60	20.62	
5	64QAM	12	7	20.39	20.66	20.60	20.58	21.5
5	64QAM	12	13	20.49	20.45	20.44	20.63	
5	64QAM	25	0	20.38	20.54	20.58	20.60	
5	256QAM	1	0	18.18	18.34	18.29	18.23	19.5
5	256QAM	1	12	18.12	18.22	18.17	18.28	
5	256QAM	1	24	18.17	18.33	18.02	18.31	
5	256QAM	12	0	18.37	18.51	18.56	18.56	19.5
5	256QAM	12	7	18.46	18.62	18.44	18.55	
5	256QAM	12	13	18.33	18.54	18.53	18.51	
5	256QAM	25	0	18.28	18.39	18.32	18.45	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	16.98	16.93	16.91	16.85	17.5
20	QPSK	1	49	16.87	16.73	16.67	16.67	
20	QPSK	1	99	16.69	16.82	16.73	16.70	
20	QPSK	50	0	16.90	16.72	16.71	16.81	17.5
20	QPSK	50	24	16.74	16.79	16.81	16.72	
20	QPSK	50	50	16.84	16.78	16.77	16.75	
20	QPSK	100	0	16.87	16.79	16.76	16.68	
20	16QAM	1	0	16.71	16.75	16.74	16.91	17.5
20	16QAM	1	49	16.81	16.81	16.69	16.83	
20	16QAM	1	99	16.77	16.81	16.72	16.76	
20	16QAM	50	0	16.76	16.78	16.77	16.83	
20	16QAM	50	24	16.75	16.70	16.73	16.73	17.5
20	16QAM	50	50	16.82	16.72	16.66	16.77	
20	16QAM	100	0	16.83	16.61	16.71	16.67	
20	64QAM	1	0	16.40	16.35	16.43	16.35	17.5
20	64QAM	1	49	16.71	16.73	16.59	16.60	
20	64QAM	1	99	16.46	16.41	16.43	16.26	
20	64QAM	50	0	16.75	16.80	16.78	16.84	17.5
20	64QAM	50	24	16.76	16.73	16.75	16.76	
20	64QAM	50	50	16.73	16.66	16.69	16.82	
20	64QAM	100	0	16.89	16.68	16.76	16.74	
20	256QAM	1	0	16.32	16.12	16.21	16.23	17.5
20	256QAM	1	49	16.63	16.55	16.40	16.39	
20	256QAM	1	99	16.28	16.21	16.18	16.18	
20	256QAM	50	0	16.70	16.66	16.60	16.69	17.5
20	256QAM	50	24	16.67	16.61	16.52	16.67	
20	256QAM	50	50	16.65	16.45	16.63	16.60	
20	256QAM	100	0	16.82	16.62	16.61	16.69	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	16.89	16.72	16.70	16.74	17.5
15	QPSK	1	37	16.66	16.52	16.43	16.49	
15	QPSK	1	74	16.48	16.61	16.58	16.64	
15	QPSK	36	0	16.79	16.52	16.46	16.66	17.5
15	QPSK	36	20	16.64	16.65	16.57	16.62	
15	QPSK	36	39	16.72	16.64	16.64	16.67	
15	QPSK	75	0	16.70	16.56	16.66	16.52	
15	16QAM	1	0	16.51	16.53	16.64	16.74	17.5
15	16QAM	1	37	16.62	16.67	16.64	16.67	
15	16QAM	1	74	16.62	16.60	16.58	16.51	
15	16QAM	36	0	16.58	16.67	16.63	16.64	17.5
15	16QAM	36	20	16.66	16.62	16.60	16.48	
15	16QAM	36	39	16.62	16.61	16.61	16.58	
15	16QAM	75	0	16.68	16.40	16.63	16.43	
15	64QAM	1	0	16.21	16.22	16.22	16.14	17.5
15	64QAM	1	37	16.66	16.57	16.36	16.38	
15	64QAM	1	74	16.21	16.19	16.31	16.16	
15	64QAM	36	0	16.52	16.73	16.72	16.74	17.5
15	64QAM	36	20	16.64	16.63	16.66	16.69	
15	64QAM	36	39	16.59	16.55	16.44	16.75	
15	64QAM	75	0	16.78	16.48	16.59	16.63	
15	256QAM	1	0	16.24	16.05	16.06	16.04	17.5
15	256QAM	1	37	16.51	16.32	16.29	16.26	
15	256QAM	1	74	16.18	16.13	16.13	16.01	
15	256QAM	36	0	16.55	16.46	16.43	16.61	17.5
15	256QAM	36	20	16.54	16.40	16.39	16.61	
15	256QAM	36	39	16.52	16.23	16.49	16.46	



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15	256QAM	75	0	16.70	16.54	16.51	16.48	Tune-up limit (dBm)
Channel				55290	55815	56165	56690	
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	16.79	16.68	16.82	16.69	17.5
10	QPSK	1	25	16.81	16.51	16.48	16.57	
10	QPSK	1	49	16.63	16.59	16.60	16.48	
10	QPSK	25	0	16.74	16.55	16.56	16.57	17.5
10	QPSK	25	12	16.50	16.57	16.74	16.52	
10	QPSK	25	25	16.59	16.54	16.64	16.63	
10	QPSK	50	0	16.76	16.71	16.51	16.45	17.5
10	16QAM	1	0	16.49	16.58	16.69	16.69	
10	16QAM	1	25	16.60	16.57	16.55	16.68	
10	16QAM	1	49	16.58	16.76	16.60	16.65	17.5
10	16QAM	25	0	16.55	16.54	16.58	16.77	
10	16QAM	25	12	16.66	16.64	16.61	16.56	
10	16QAM	25	25	16.57	16.57	16.48	16.72	17.5
10	16QAM	50	0	16.74	16.42	16.48	16.52	
10	64QAM	1	0	16.15	16.26	16.38	16.19	
10	64QAM	1	25	16.53	16.57	16.53	16.52	17.5
10	64QAM	1	49	16.41	16.27	16.24	16.18	
10	64QAM	25	0	16.60	16.63	16.53	16.71	
10	64QAM	25	12	16.68	16.51	16.65	16.57	17.5
10	64QAM	25	25	16.48	16.44	16.50	16.70	
10	64QAM	50	0	16.68	16.61	16.55	16.49	
10	256QAM	1	0	16.08	15.88	16.07	15.99	17.5
10	256QAM	1	25	16.58	16.43	16.20	16.25	
10	256QAM	1	49	16.04	16.06	16.03	16.02	
10	256QAM	25	0	16.54	16.58	16.37	16.45	17.5
10	256QAM	25	12	16.60	16.50	16.29	16.48	
10	256QAM	25	25	16.51	16.24	16.53	16.40	
10	256QAM	50	0	16.66	16.57	16.49	16.57	Tune-up limit (dBm)
Channel				55265	55810	56170	56715	
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	16.78	16.77	16.74	16.61	17.5
5	QPSK	1	12	16.80	16.60	16.60	16.54	
5	QPSK	1	24	16.58	16.72	16.49	16.60	
5	QPSK	12	0	16.70	16.58	16.52	16.58	17.5
5	QPSK	12	7	16.63	16.69	16.68	16.55	
5	QPSK	12	13	16.70	16.54	16.72	16.50	
5	QPSK	25	0	16.62	16.70	16.53	16.48	17.5
5	16QAM	1	0	16.55	16.70	16.57	16.85	
5	16QAM	1	12	16.57	16.65	16.52	16.77	
5	16QAM	1	24	16.56	16.62	16.60	16.60	17.5
5	16QAM	12	0	16.70	16.54	16.57	16.78	
5	16QAM	12	7	16.51	16.55	16.58	16.51	
5	16QAM	12	13	16.72	16.63	16.52	16.63	17.5
5	16QAM	25	0	16.63	16.55	16.62	16.56	
5	64QAM	1	0	16.26	16.11	16.23	16.17	
5	64QAM	1	12	16.47	16.66	16.37	16.36	17.5
5	64QAM	1	24	16.38	16.30	16.35	16.17	
5	64QAM	12	0	16.70	16.62	16.54	16.62	
5	64QAM	12	7	16.57	16.67	16.67	16.71	17.5
5	64QAM	12	13	16.66	16.53	16.64	16.65	
5	64QAM	25	0	16.80	16.45	16.71	16.60	
5	256QAM	1	0	16.24	16.00	16.04	16.03	17.5
5	256QAM	1	12	16.57	16.42	16.29	16.24	
5	256QAM	1	24	16.09	16.08	16.02	16.01	
5	256QAM	12	0	16.56	16.59	16.44	16.46	17.5
5	256QAM	12	7	16.57	16.54	16.38	16.59	
5	256QAM	12	13	16.46	16.23	16.42	16.52	
5	256QAM	25	0	16.76	16.43	16.50	16.45	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	22.74	23.05	22.67	22.83	24.2
20	QPSK	1	49	22.72	22.79	22.78	22.96	
20	QPSK	1	99	22.81	22.78	22.72	22.92	
20	QPSK	50	0	21.84	22.00	21.71	21.95	23.2
20	QPSK	50	24	21.84	21.94	21.70	21.97	
20	QPSK	50	50	21.89	21.95	21.70	21.88	
20	QPSK	100	0	21.87	21.96	21.70	21.85	
20	16QAM	1	0	21.85	22.03	21.69	21.86	23.2
20	16QAM	1	49	21.89	21.94	21.67	21.87	
20	16QAM	1	99	21.93	21.89	21.69	21.91	
20	16QAM	50	0	20.89	21.02	20.72	20.88	22.2
20	16QAM	50	24	20.92	20.99	20.71	20.89	
20	16QAM	50	50	20.94	20.95	20.72	20.90	
20	16QAM	100	0	20.91	20.98	20.71	20.87	
20	64QAM	1	0	20.57	20.64	20.42	20.55	22.2
20	64QAM	1	49	20.70	20.71	20.45	20.62	
20	64QAM	1	99	20.64	20.58	20.37	20.60	
20	64QAM	50	0	19.94	20.07	19.76	19.92	
20	64QAM	50	24	19.95	20.01	19.73	19.92	21.2
20	64QAM	50	50	19.98	19.98	19.75	19.92	
20	64QAM	100	0	19.94	20.02	19.74	19.92	
20	256QAM	1	0	17.75	17.88	17.60	17.72	19.2
20	256QAM	1	49	17.60	17.75	17.41	17.58	
20	256QAM	1	99	17.60	17.69	17.41	17.58	
20	256QAM	50	0	17.88	18.04	17.75	17.86	19.2
20	256QAM	50	24	17.92	18.04	17.74	17.86	
20	256QAM	50	50	17.91	18.03	17.73	17.83	
20	256QAM	100	0	17.79	17.92	17.73	17.85	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	22.69	22.93	22.66	22.67	24.2
15	QPSK	1	37	22.53	22.65	22.64	22.84	
15	QPSK	1	74	22.74	22.70	22.66	22.89	
15	QPSK	36	0	21.70	21.87	21.63	21.78	23.2
15	QPSK	36	20	21.72	21.84	21.69	21.83	
15	QPSK	36	39	21.79	21.94	21.59	21.72	
15	QPSK	75	0	21.80	21.91	21.54	21.78	
15	16QAM	1	0	21.82	21.89	21.59	21.84	23.2
15	16QAM	1	37	21.70	21.86	21.61	21.82	
15	16QAM	1	74	21.91	21.71	21.54	21.86	
15	16QAM	36	0	20.70	20.89	20.70	20.79	22.2
15	16QAM	36	20	20.74	20.90	20.66	20.73	
15	16QAM	36	39	20.77	20.80	20.71	20.74	
15	16QAM	75	0	20.89	20.98	20.55	20.76	
15	64QAM	1	0	20.49	20.46	20.42	20.40	22.2
15	64QAM	1	37	20.69	20.63	20.29	20.46	
15	64QAM	1	74	20.49	20.47	20.27	20.60	
15	64QAM	36	0	19.90	19.95	19.74	19.85	21.2
15	64QAM	36	20	19.93	19.82	19.71	19.72	
15	64QAM	36	39	19.83	19.91	19.70	19.72	
15	64QAM	75	0	19.80	19.95	19.60	19.72	
15	256QAM	1	0	17.63	17.80	17.54	17.66	19.2
15	256QAM	1	37	17.46	17.58	17.21	17.47	
15	256QAM	1	74	17.48	17.56	17.30	17.58	
15	256QAM	36	0	17.82	18.02	17.65	17.68	19.2
15	256QAM	36	20	17.75	17.87	17.74	17.74	
15	256QAM	36	39	17.74	17.98	17.71	17.79	



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15	256QAM	75	0	17.68	17.84	17.64	17.79	Tune-up limit (dBm)
Channel				55290	55815	56165	56690	
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	22.71	22.93	22.60	22.80	24.2
10	QPSK	1	25	22.67	22.77	22.67	22.95	
10	QPSK	1	49	22.75	22.63	22.58	22.81	
10	QPSK	25	0	21.74	21.84	21.68	21.76	23.2
10	QPSK	25	12	21.65	21.76	21.56	21.86	
10	QPSK	25	25	21.79	21.88	21.54	21.79	
10	QPSK	50	0	21.83	21.94	21.69	21.66	23.2
10	16QAM	1	0	21.71	22.02	21.68	21.67	
10	16QAM	1	25	21.84	21.81	21.54	21.81	
10	16QAM	1	49	21.81	21.73	21.61	21.78	22.2
10	16QAM	25	0	20.80	20.88	20.58	20.81	
10	16QAM	25	12	20.86	20.92	20.71	20.79	
10	16QAM	25	25	20.77	20.92	20.57	20.90	22.2
10	16QAM	50	0	20.73	20.95	20.64	20.81	
10	64QAM	1	0	20.42	20.50	20.24	20.51	
10	64QAM	1	25	20.59	20.58	20.25	20.59	22.2
10	64QAM	1	49	20.52	20.41	20.24	20.47	
10	64QAM	25	0	19.81	19.93	19.68	19.88	
10	64QAM	25	12	19.85	19.96	19.66	19.82	21.2
10	64QAM	25	25	19.81	19.78	19.75	19.74	
10	64QAM	50	0	19.91	19.85	19.66	19.83	
10	256QAM	1	0	17.63	17.78	17.59	17.72	19.2
10	256QAM	1	25	17.57	17.70	17.26	17.52	
10	256QAM	1	49	17.49	17.65	17.29	17.56	
10	256QAM	25	0	17.88	18.04	17.67	17.86	19.2
10	256QAM	25	12	17.83	17.92	17.65	17.80	
10	256QAM	25	25	17.90	17.90	17.64	17.83	
10	256QAM	50	0	17.72	17.72	17.73	17.68	Tune-up limit (dBm)
Channel				55265	55810	56170	56715	
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	22.64	22.88	22.51	22.81	24.2
5	QPSK	1	12	22.64	22.76	22.65	22.77	
5	QPSK	1	24	22.67	22.71	22.55	22.87	
5	QPSK	12	0	21.82	21.95	21.59	21.81	23.2
5	QPSK	12	7	21.64	21.94	21.60	21.91	
5	QPSK	12	13	21.89	21.86	21.66	21.86	
5	QPSK	25	0	21.85	21.78	21.57	21.71	23.2
5	16QAM	1	0	21.83	21.99	21.65	21.72	
5	16QAM	1	12	21.72	21.89	21.65	21.69	
5	16QAM	1	24	21.78	21.76	21.56	21.90	22.2
5	16QAM	12	0	20.87	20.93	20.65	20.75	
5	16QAM	12	7	20.85	20.96	20.55	20.80	
5	16QAM	12	13	20.74	20.92	20.57	20.71	22.2
5	16QAM	25	0	20.77	20.86	20.65	20.67	
5	64QAM	1	0	20.55	20.49	20.26	20.52	
5	64QAM	1	12	20.58	20.57	20.32	20.48	22.2
5	64QAM	1	24	20.63	20.53	20.34	20.51	
5	64QAM	12	0	19.77	19.93	19.60	19.79	
5	64QAM	12	7	19.82	20.00	19.59	19.75	21.2
5	64QAM	12	13	19.91	19.89	19.62	19.86	
5	64QAM	25	0	19.87	19.82	19.71	19.76	
5	256QAM	1	0	17.67	17.69	17.58	17.66	19.2
5	256QAM	1	12	17.49	17.62	17.37	17.42	
5	256QAM	1	24	17.41	17.58	17.21	17.53	
5	256QAM	12	0	17.86	18.04	17.62	17.73	19.2
5	256QAM	12	7	17.81	18.01	17.64	17.80	
5	256QAM	12	13	17.76	17.96	17.61	17.83	
5	256QAM	25	0	17.60	17.89	17.69	17.81	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	22.81	22.94	22.64	22.83	24.2
20	QPSK	1	49	22.79	22.82	22.61	22.75	
20	QPSK	1	99	22.93	22.84	22.76	22.82	
20	QPSK	50	0	21.90	22.03	21.81	21.95	23.2
20	QPSK	50	24	21.93	21.99	21.84	21.95	
20	QPSK	50	50	21.96	21.97	21.85	21.94	
20	QPSK	100	0	21.93	22.01	21.83	21.95	
20	16QAM	1	0	22.16	22.30	21.99	22.07	23.2
20	16QAM	1	49	21.69	22.15	21.94	22.08	
20	16QAM	1	99	22.26	22.18	22.08	22.14	
20	16QAM	50	0	20.98	21.10	20.85	20.99	22.2
20	16QAM	50	24	21.00	21.07	20.87	20.99	
20	16QAM	50	50	21.02	21.04	20.91	20.97	
20	16QAM	100	0	20.98	21.06	20.86	20.97	
20	64QAM	1	0	20.86	21.05	20.73	20.89	22.2
20	64QAM	1	49	20.85	20.87	20.82	20.83	
20	64QAM	1	99	20.92	20.87	20.78	20.82	
20	64QAM	50	0	19.92	20.04	19.81	19.96	
20	64QAM	50	24	19.94	20.00	19.83	19.96	21.2
20	64QAM	50	50	19.98	19.98	19.86	19.95	
20	64QAM	100	0	19.94	19.98	19.83	19.94	
20	256QAM	1	0	17.90	18.03	17.75	17.95	19.2
20	256QAM	1	49	17.77	17.89	17.68	17.82	
20	256QAM	1	99	17.81	17.95	17.63	17.88	
20	256QAM	50	0	17.92	18.12	17.83	18.04	19.2
20	256QAM	50	24	17.95	18.05	17.75	17.93	
20	256QAM	50	50	17.89	18.01	17.72	17.92	
20	256QAM	100	0	17.84	17.98	17.72	17.94	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	22.65	22.89	22.51	22.70	24.2
15	QPSK	1	37	22.62	22.80	22.61	22.70	
15	QPSK	1	74	22.86	22.79	22.62	22.66	
15	QPSK	36	0	21.78	21.87	21.79	21.88	23.2
15	QPSK	36	20	21.84	21.81	21.75	21.87	
15	QPSK	36	39	21.93	21.93	21.73	21.83	
15	QPSK	75	0	21.79	22.00	21.75	21.78	
15	16QAM	1	0	22.15	22.13	21.96	21.87	23.2
15	16QAM	1	37	21.55	22.03	21.79	21.98	
15	16QAM	1	74	22.21	22.11	22.08	22.01	
15	16QAM	36	0	20.82	21.09	20.65	20.79	22.2
15	16QAM	36	20	20.84	20.88	20.83	20.80	
15	16QAM	36	39	20.97	20.91	20.81	20.93	
15	16QAM	75	0	20.81	21.01	20.67	20.78	
15	64QAM	1	0	20.81	20.89	20.68	20.81	22.2
15	64QAM	1	37	20.72	20.79	20.80	20.75	
15	64QAM	1	74	20.78	20.83	20.78	20.62	
15	64QAM	36	0	19.82	19.98	19.79	19.86	21.2
15	64QAM	36	20	19.86	19.86	19.76	19.91	
15	64QAM	36	39	19.85	19.94	19.81	19.75	
15	64QAM	75	0	19.90	19.84	19.69	19.76	
15	256QAM	1	0	17.78	17.94	17.58	17.88	19.2
15	256QAM	1	37	17.61	17.77	17.54	17.62	
15	256QAM	1	74	17.68	17.94	17.62	17.77	
15	256QAM	36	0	17.81	18.12	17.64	17.97	19.2
15	256QAM	36	20	17.93	17.85	17.71	17.89	
15	256QAM	36	39	17.89	17.94	17.59	17.87	



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15	256QAM	75	0	17.72	17.97	17.56	17.84	Tune-up limit (dBm)
Channel				55290	55815	56165	56690	
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	22.77	22.91	22.52	22.71	24.2
10	QPSK	1	25	22.71	22.74	22.56	22.73	
10	QPSK	1	49	22.78	22.76	22.58	22.68	
10	QPSK	25	0	21.80	21.85	21.64	21.78	23.2
10	QPSK	25	12	21.85	21.86	21.65	21.80	
10	QPSK	25	25	21.91	21.77	21.68	21.78	
10	QPSK	50	0	21.92	21.98	21.74	21.78	23.2
10	16QAM	1	0	22.12	22.25	21.93	22.07	
10	16QAM	1	25	21.60	22.06	21.81	21.91	
10	16QAM	1	49	22.15	22.08	21.95	21.97	22.2
10	16QAM	25	0	20.98	20.90	20.77	20.86	
10	16QAM	25	12	20.83	20.93	20.80	20.94	
10	16QAM	25	25	21.02	21.04	20.85	20.93	22.2
10	16QAM	50	0	20.92	20.87	20.86	20.78	
10	64QAM	1	0	20.68	21.01	20.65	20.88	
10	64QAM	1	25	20.78	20.85	20.74	20.73	22.2
10	64QAM	1	49	20.77	20.68	20.64	20.68	
10	64QAM	25	0	19.77	19.93	19.66	19.86	
10	64QAM	25	12	19.88	19.95	19.65	19.83	21.2
10	64QAM	25	25	19.81	19.97	19.81	19.88	
10	64QAM	50	0	19.77	19.80	19.77	19.89	
10	256QAM	1	0	17.76	17.96	17.75	17.78	19.2
10	256QAM	1	25	17.70	17.75	17.61	17.81	
10	256QAM	1	49	17.71	17.90	17.51	17.76	
10	256QAM	25	0	17.87	18.11	17.82	17.94	19.2
10	256QAM	25	12	17.83	17.96	17.60	17.86	
10	256QAM	25	25	17.74	17.90	17.54	17.75	
10	256QAM	50	0	17.81	17.85	17.70	17.88	Tune-up limit (dBm)
Channel				55265	55810	56170	56715	
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	22.72	22.81	22.47	22.78	24.2
5	QPSK	1	12	22.61	22.70	22.54	22.70	
5	QPSK	1	24	22.93	22.75	22.59	22.67	
5	QPSK	12	0	21.84	21.85	21.64	21.76	23.2
5	QPSK	12	7	21.90	21.79	21.81	21.81	
5	QPSK	12	13	21.76	21.89	21.72	21.90	
5	QPSK	25	0	21.79	21.83	21.68	21.94	23.2
5	16QAM	1	0	22.07	22.26	21.81	21.92	
5	16QAM	1	12	21.52	21.96	21.87	21.92	
5	16QAM	1	24	22.19	22.13	21.91	21.95	22.2
5	16QAM	12	0	20.85	20.99	20.81	20.80	
5	16QAM	12	7	20.84	20.97	20.76	20.94	
5	16QAM	12	13	20.94	21.02	20.84	20.77	22.2
5	16QAM	25	0	20.85	20.93	20.70	20.80	
5	64QAM	1	0	20.80	21.05	20.53	20.76	
5	64QAM	1	12	20.69	20.76	20.62	20.81	22.2
5	64QAM	1	24	20.91	20.87	20.77	20.82	
5	64QAM	12	0	19.83	20.02	19.68	19.96	
5	64QAM	12	7	19.91	19.92	19.83	19.86	21.2
5	64QAM	12	13	19.93	19.78	19.66	19.89	
5	64QAM	25	0	19.79	19.86	19.79	19.94	
5	256QAM	1	0	17.86	17.85	17.61	17.84	19.2
5	256QAM	1	12	17.71	17.81	17.67	17.67	
5	256QAM	1	24	17.65	17.92	17.53	17.86	
5	256QAM	12	0	17.80	18.11	17.69	18.02	19.2
5	256QAM	12	7	17.78	17.93	17.70	17.80	
5	256QAM	12	13	17.76	17.94	17.52	17.91	
5	256QAM	25	0	17.70	17.79	17.54	17.81	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	23.57	23.62	23.54	23.67	24.4
20	QPSK	1	49	23.55	23.56	23.59	23.61	
20	QPSK	1	99	23.59	23.63	23.58	23.54	
20	QPSK	50	0	22.53	22.71	22.66	22.72	23.5
20	QPSK	50	24	22.53	22.60	22.65	22.67	
20	QPSK	50	50	22.52	22.60	22.53	22.66	
20	QPSK	100	0	22.52	22.60	22.54	22.67	
20	16QAM	1	0	22.58	22.67	22.59	22.75	23.5
20	16QAM	1	49	22.60	22.67	22.62	22.75	
20	16QAM	1	99	22.52	22.58	22.53	22.67	
20	16QAM	50	0	21.52	21.62	21.55	21.68	22.5
20	16QAM	50	24	21.53	21.60	21.55	21.68	
20	16QAM	50	50	21.51	21.60	21.55	21.67	
20	16QAM	100	0	21.55	21.63	21.58	21.70	
20	64QAM	1	0	21.25	21.35	21.24	21.43	22.5
20	64QAM	1	49	21.25	21.34	21.26	21.41	
20	64QAM	1	99	21.20	21.14	21.22	21.35	
20	64QAM	50	0	20.60	20.69	20.62	20.75	21.5
20	64QAM	50	24	20.58	20.67	20.60	20.74	
20	64QAM	50	50	20.59	20.64	20.55	20.74	
20	64QAM	100	0	20.55	20.64	20.58	20.70	
20	256QAM	1	0	18.32	18.48	18.33	18.42	19.5
20	256QAM	1	49	18.15	18.30	18.18	18.30	
20	256QAM	1	99	18.25	18.36	18.21	18.39	
20	256QAM	50	0	18.49	18.64	18.57	18.58	19.5
20	256QAM	50	24	18.46	18.63	18.51	18.56	
20	256QAM	50	50	18.49	18.70	18.54	18.64	
20	256QAM	100	0	18.43	18.55	18.48	18.56	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	23.55	23.59	23.54	23.53	24.4
15	QPSK	1	37	23.49	23.51	23.41	23.43	
15	QPSK	1	74	23.46	23.46	23.55	23.50	
15	QPSK	36	0	22.50	22.63	22.52	22.63	23.5
15	QPSK	36	20	22.33	22.58	22.59	22.60	
15	QPSK	36	39	22.46	22.52	22.49	22.66	
15	QPSK	75	0	22.45	22.51	22.40	22.58	
15	16QAM	1	0	22.50	22.58	22.56	22.67	23.5
15	16QAM	1	37	22.55	22.52	22.49	22.59	
15	16QAM	1	74	22.51	22.52	22.36	22.52	
15	16QAM	36	0	21.37	21.49	21.41	21.49	22.5
15	16QAM	36	20	21.40	21.41	21.38	21.59	
15	16QAM	36	39	21.44	21.59	21.35	21.57	
15	16QAM	75	0	21.39	21.46	21.56	21.57	
15	64QAM	1	0	21.19	21.17	21.22	21.31	22.5
15	64QAM	1	37	21.21	21.23	21.23	21.28	
15	64QAM	1	74	21.14	21.01	21.21	21.15	
15	64QAM	36	0	20.49	20.61	20.56	20.67	21.5
15	64QAM	36	20	20.38	20.65	20.53	20.74	
15	64QAM	36	39	20.54	20.44	20.47	20.54	
15	64QAM	75	0	20.36	20.60	20.57	20.61	
15	256QAM	1	0	18.21	18.47	18.26	18.24	19.5
15	256QAM	1	37	17.95	18.17	18.06	18.24	
15	256QAM	1	74	18.07	18.18	18.13	18.20	
15	256QAM	36	0	18.33	18.59	18.45	18.58	19.5
15	256QAM	36	20	18.28	18.51	18.40	18.50	
15	256QAM	36	39	18.43	18.50	18.52	18.56	



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15	256QAM	75	0	18.28	18.38	18.42	18.45	Tune-up limit (dBm)
Channel				55290	55815	56165	56690	
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	23.52	23.46	23.44	23.56	24.4
10	QPSK	1	25	23.48	23.39	23.52	23.53	
10	QPSK	1	49	23.44	23.44	23.57	23.48	
10	QPSK	25	0	22.46	22.67	22.66	22.55	23.5
10	QPSK	25	12	22.47	22.59	22.55	22.50	
10	QPSK	25	25	22.39	22.48	22.46	22.48	
10	QPSK	50	0	22.50	22.54	22.37	22.63	23.5
10	16QAM	1	0	22.52	22.61	22.57	22.68	
10	16QAM	1	25	22.53	22.60	22.61	22.56	
10	16QAM	1	49	22.40	22.46	22.45	22.67	22.5
10	16QAM	25	0	21.52	21.47	21.41	21.67	
10	16QAM	25	12	21.48	21.50	21.48	21.48	
10	16QAM	25	25	21.40	21.60	21.50	21.48	22.5
10	16QAM	50	0	21.39	21.51	21.51	21.52	
10	64QAM	1	0	21.24	21.32	21.20	21.34	
10	64QAM	1	25	21.15	21.15	21.24	21.35	22.5
10	64QAM	1	49	21.05	20.94	21.14	21.22	
10	64QAM	25	0	20.50	20.67	20.46	20.66	
10	64QAM	25	12	20.57	20.66	20.40	20.74	21.5
10	64QAM	25	25	20.58	20.58	20.51	20.74	
10	64QAM	50	0	20.52	20.53	20.48	20.59	
10	256QAM	1	0	18.25	18.43	18.18	18.39	19.5
10	256QAM	1	25	18.14	18.28	18.18	18.30	
10	256QAM	1	49	18.17	18.34	18.21	18.39	
10	256QAM	25	0	18.42	18.56	18.47	18.45	19.5
10	256QAM	25	12	18.30	18.54	18.44	18.55	
10	256QAM	25	25	18.45	18.53	18.46	18.61	
10	256QAM	50	0	18.26	18.41	18.40	18.53	Tune-up limit (dBm)
Channel				55265	55810	56170	56715	
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	23.49	23.43	23.48	23.62	24.4
5	QPSK	1	12	23.48	23.52	23.42	23.52	
5	QPSK	1	24	23.39	23.58	23.47	23.34	
5	QPSK	12	0	22.40	22.72	22.56	22.55	23.5
5	QPSK	12	7	22.39	22.60	22.59	22.61	
5	QPSK	12	13	22.32	22.46	22.42	22.59	
5	QPSK	25	0	22.48	22.56	22.47	22.56	23.5
5	16QAM	1	0	22.42	22.60	22.43	22.74	
5	16QAM	1	12	22.41	22.47	22.53	22.69	
5	16QAM	1	24	22.33	22.57	22.38	22.54	22.5
5	16QAM	12	0	21.33	21.60	21.41	21.54	
5	16QAM	12	7	21.36	21.43	21.35	21.68	
5	16QAM	12	13	21.35	21.49	21.51	21.56	22.5
5	16QAM	25	0	21.52	21.44	21.41	21.61	
5	64QAM	1	0	21.16	21.30	21.07	21.34	
5	64QAM	1	12	21.20	21.26	21.17	21.38	22.5
5	64QAM	1	24	21.09	21.04	21.09	21.30	
5	64QAM	12	0	20.51	20.56	20.60	20.62	
5	64QAM	12	7	20.39	20.66	20.60	20.58	21.5
5	64QAM	12	13	20.49	20.45	20.44	20.63	
5	64QAM	25	0	20.38	20.54	20.58	20.60	
5	256QAM	1	0	18.18	18.34	18.29	18.23	19.5
5	256QAM	1	12	18.12	18.22	18.17	18.28	
5	256QAM	1	24	18.17	18.33	18.02	18.31	
5	256QAM	12	0	18.37	18.51	18.56	18.56	19.5
5	256QAM	12	7	18.46	18.62	18.44	18.55	
5	256QAM	12	13	18.33	18.54	18.53	18.51	
5	256QAM	25	0	18.28	18.39	18.32	18.45	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	22.86	22.76	22.74	22.74	23.7
20	QPSK	1	49	22.85	22.70	22.72	22.73	
20	QPSK	1	99	22.83	22.78	22.72	22.66	
20	QPSK	50	0	21.93	21.84	21.77	21.71	22.7
20	QPSK	50	24	21.92	21.82	21.75	21.70	
20	QPSK	50	50	21.78	21.83	21.76	21.70	
20	QPSK	100	0	21.78	21.77	21.74	21.71	
20	16QAM	1	0	21.84	21.89	21.77	21.80	22.7
20	16QAM	1	49	21.80	21.81	21.75	21.71	
20	16QAM	1	99	21.85	21.89	21.84	21.76	
20	16QAM	50	0	20.82	20.86	20.78	20.76	21.7
20	16QAM	50	24	20.82	20.86	20.78	20.75	
20	16QAM	50	50	20.84	20.87	20.81	20.74	
20	16QAM	100	0	20.81	20.86	20.78	20.74	
20	64QAM	1	0	20.53	20.58	20.46	20.47	21.7
20	64QAM	1	49	20.49	20.51	20.44	20.39	
20	64QAM	1	99	20.51	20.55	20.49	20.43	
20	64QAM	50	0	19.86	19.89	19.80	19.79	
20	64QAM	50	24	19.84	19.88	19.80	19.75	20.7
20	64QAM	50	50	19.84	19.86	19.82	19.77	
20	64QAM	100	0	19.85	19.87	19.80	19.75	
20	256QAM	1	0	17.70	17.74	17.72	17.62	18.7
20	256QAM	1	49	17.63	17.64	17.63	17.51	
20	256QAM	1	99	17.74	17.72	17.69	17.63	
20	256QAM	50	0	17.90	17.96	17.90	17.84	18.7
20	256QAM	50	24	17.88	17.85	17.90	17.80	
20	256QAM	50	50	17.94	18.01	18.03	17.93	
20	256QAM	100	0	17.90	17.88	17.91	17.80	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	22.72	22.56	22.74	22.72	23.7
15	QPSK	1	37	22.70	22.52	22.65	22.71	
15	QPSK	1	74	22.68	22.76	22.58	22.55	
15	QPSK	36	0	21.80	21.73	21.65	21.58	22.7
15	QPSK	36	20	21.92	21.74	21.66	21.55	
15	QPSK	36	39	21.72	21.74	21.58	21.66	
15	QPSK	75	0	21.61	21.67	21.60	21.54	
15	16QAM	1	0	21.69	21.85	21.65	21.70	22.7
15	16QAM	1	37	21.77	21.80	21.71	21.58	
15	16QAM	1	74	21.69	21.82	21.76	21.60	
15	16QAM	36	0	20.72	20.81	20.58	20.64	21.7
15	16QAM	36	20	20.77	20.75	20.75	20.57	
15	16QAM	36	39	20.76	20.73	20.73	20.59	
15	16QAM	75	0	20.63	20.79	20.74	20.62	
15	64QAM	1	0	20.43	20.41	20.43	20.45	21.7
15	64QAM	1	37	20.42	20.35	20.38	20.28	
15	64QAM	1	74	20.31	20.38	20.35	20.43	
15	64QAM	36	0	19.66	19.81	19.77	19.70	20.7
15	64QAM	36	20	19.80	19.77	19.76	19.61	
15	64QAM	36	39	19.80	19.83	19.67	19.66	
15	64QAM	75	0	19.81	19.67	19.80	19.67	
15	256QAM	1	0	17.60	17.61	17.69	17.44	18.7
15	256QAM	1	37	17.57	17.46	17.61	17.38	
15	256QAM	1	74	17.62	17.65	17.50	17.49	
15	256QAM	36	0	17.79	17.90	17.74	17.71	18.7
15	256QAM	36	20	17.79	17.71	17.76	17.66	
15	256QAM	36	39	17.81	17.83	17.88	17.86	



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15	256QAM	75	0	17.76	17.76	17.73	17.80	Tune-up limit (dBm)
Channel				55290	55815	56165	56690	
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	22.84	22.62	22.54	22.67	23.7
10	QPSK	1	25	22.85	22.62	22.72	22.69	
10	QPSK	1	49	22.80	22.67	22.65	22.46	
10	QPSK	25	0	21.93	21.78	21.66	21.59	22.7
10	QPSK	25	12	21.81	21.69	21.62	21.56	
10	QPSK	25	25	21.77	21.75	21.63	21.53	
10	QPSK	50	0	21.69	21.76	21.63	21.53	22.7
10	16QAM	1	0	21.78	21.78	21.72	21.79	
10	16QAM	1	25	21.71	21.66	21.75	21.62	
10	16QAM	1	49	21.72	21.81	21.66	21.56	21.7
10	16QAM	25	0	20.74	20.69	20.72	20.56	
10	16QAM	25	12	20.82	20.66	20.73	20.58	
10	16QAM	25	25	20.67	20.71	20.74	20.54	21.7
10	16QAM	50	0	20.77	20.75	20.72	20.64	
10	64QAM	1	0	20.35	20.48	20.35	20.42	
10	64QAM	1	25	20.32	20.35	20.34	20.19	21.7
10	64QAM	1	49	20.41	20.54	20.37	20.29	
10	64QAM	25	0	19.84	19.82	19.61	19.70	
10	64QAM	25	12	19.70	19.81	19.75	19.56	20.7
10	64QAM	25	25	19.67	19.76	19.81	19.60	
10	64QAM	50	0	19.82	19.72	19.64	19.75	
10	256QAM	1	0	17.53	17.73	17.54	17.51	18.7
10	256QAM	1	25	17.48	17.49	17.62	17.34	
10	256QAM	1	49	17.54	17.59	17.69	17.62	
10	256QAM	25	0	17.71	17.77	17.75	17.69	18.7
10	256QAM	25	12	17.69	17.70	17.89	17.78	
10	256QAM	25	25	17.94	17.82	17.93	17.74	
10	256QAM	50	0	17.78	17.86	17.73	17.70	Tune-up limit (dBm)
Channel				55265	55810	56170	56715	
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	22.85	22.56	22.72	22.69	23.7
5	QPSK	1	12	22.74	22.52	22.58	22.71	
5	QPSK	1	24	22.72	22.67	22.70	22.46	
5	QPSK	12	0	21.80	21.68	21.73	21.56	22.7
5	QPSK	12	7	21.86	21.63	21.69	21.52	
5	QPSK	12	13	21.64	21.76	21.64	21.51	
5	QPSK	25	0	21.58	21.72	21.69	21.56	22.7
5	16QAM	1	0	21.79	21.83	21.65	21.78	
5	16QAM	1	12	21.70	21.72	21.55	21.65	
5	16QAM	1	24	21.82	21.75	21.79	21.60	21.7
5	16QAM	12	0	20.65	20.71	20.58	20.73	
5	16QAM	12	7	20.72	20.78	20.65	20.67	
5	16QAM	12	13	20.72	20.67	20.68	20.72	21.7
5	16QAM	25	0	20.62	20.76	20.78	20.54	
5	64QAM	1	0	20.50	20.57	20.43	20.43	
5	64QAM	1	12	20.30	20.33	20.37	20.21	21.7
5	64QAM	1	24	20.48	20.35	20.41	20.30	
5	64QAM	12	0	19.73	19.72	19.78	19.66	
5	64QAM	12	7	19.72	19.78	19.65	19.71	20.7
5	64QAM	12	13	19.74	19.84	19.74	19.76	
5	64QAM	25	0	19.68	19.83	19.79	19.58	
5	256QAM	1	0	17.61	17.54	17.69	17.53	18.7
5	256QAM	1	12	17.44	17.54	17.58	17.41	
5	256QAM	1	24	17.67	17.67	17.63	17.59	
5	256QAM	12	0	17.74	17.92	17.81	17.77	18.7
5	256QAM	12	7	17.68	17.84	17.70	17.61	
5	256QAM	12	13	17.82	17.94	17.95	17.80	
5	256QAM	25	0	17.80	17.71	17.71	17.69	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	21.48	21.56	21.33	21.55	22
20	QPSK	1	49	21.47	21.50	21.30	21.48	
20	QPSK	1	99	21.46	21.45	21.24	21.43	
20	QPSK	50	0	21.52	21.53	21.35	21.48	22
20	QPSK	50	24	21.51	21.49	21.30	21.50	
20	QPSK	50	50	21.50	21.46	21.29	21.50	
20	QPSK	100	0	21.52	21.50	21.31	21.48	22
20	16QAM	1	0	21.53	21.48	21.33	21.50	
20	16QAM	1	49	21.45	21.48	21.19	21.34	
20	16QAM	1	99	21.49	21.40	21.21	21.42	22
20	16QAM	50	0	21.37	21.43	21.24	21.37	
20	16QAM	50	24	21.40	21.52	21.23	21.39	
20	16QAM	50	50	21.44	21.44	21.24	21.41	22
20	16QAM	100	0	21.40	21.51	21.22	21.40	
20	64QAM	1	0	21.08	21.31	20.98	21.05	
20	64QAM	1	49	21.19	21.26	20.93	21.12	22
20	64QAM	1	99	21.20	21.09	20.91	21.10	
20	64QAM	50	0	20.64	20.77	20.50	20.62	
20	64QAM	50	24	20.52	20.76	20.47	20.61	21.2
20	64QAM	50	50	20.63	20.69	20.46	20.67	
20	64QAM	100	0	20.66	20.73	20.44	20.64	
20	256QAM	1	0	17.75	17.88	17.60	17.72	19.2
20	256QAM	1	49	17.60	17.75	17.41	17.58	
20	256QAM	1	99	17.60	17.69	17.41	17.58	
20	256QAM	50	0	17.88	18.04	17.75	17.86	19.2
20	256QAM	50	24	17.92	18.04	17.74	17.86	
20	256QAM	50	50	17.91	18.03	17.73	17.83	
20	256QAM	100	0	17.79	17.92	17.73	17.85	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	21.31	21.46	21.20	21.43	22
15	QPSK	1	37	21.31	21.39	21.19	21.35	
15	QPSK	1	74	21.35	21.26	21.04	21.25	
15	QPSK	36	0	21.32	21.30	21.18	21.35	22
15	QPSK	36	20	21.32	21.32	21.15	21.35	
15	QPSK	36	39	21.34	21.36	21.15	21.33	
15	QPSK	75	0	21.34	21.31	21.19	21.30	22
15	16QAM	1	0	21.41	21.31	21.21	21.33	
15	16QAM	1	37	21.34	21.35	21.07	21.16	
15	16QAM	1	74	21.30	21.25	21.02	21.26	22
15	16QAM	36	0	21.25	21.23	21.04	21.18	
15	16QAM	36	20	21.20	21.41	21.04	21.24	
15	16QAM	36	39	21.33	21.32	21.04	21.31	22
15	16QAM	75	0	21.25	21.37	21.04	21.24	
15	64QAM	1	0	20.94	21.11	20.82	20.86	
15	64QAM	1	37	21.05	21.09	20.76	21.01	22
15	64QAM	1	74	21.03	20.98	20.71	20.95	
15	64QAM	36	0	20.53	20.61	20.32	20.52	
15	64QAM	36	20	20.37	20.62	20.31	20.48	21.2
15	64QAM	36	39	20.53	20.57	20.30	20.51	
15	64QAM	75	0	20.52	20.55	20.26	20.46	
15	256QAM	1	0	17.63	17.80	17.54	17.66	19.2
15	256QAM	1	37	17.46	17.58	17.21	17.47	
15	256QAM	1	74	17.48	17.56	17.30	17.58	
15	256QAM	36	0	17.82	18.02	17.65	17.68	19.2
15	256QAM	36	20	17.75	17.87	17.74	17.74	
15	256QAM	36	39	17.74	17.98	17.71	17.79	



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15	256QAM	75	0	17.68	17.84	17.64	17.79	Tune-up limit (dBm)
Channel				55290	55815	56165	56690	
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	21.29	21.41	21.17	21.45	22
10	QPSK	1	25	21.30	21.40	21.12	21.36	
10	QPSK	1	49	21.28	21.28	21.11	21.30	
10	QPSK	25	0	21.37	21.31	21.21	21.29	22
10	QPSK	25	12	21.37	21.34	21.15	21.32	
10	QPSK	25	25	21.38	21.30	21.18	21.36	
10	QPSK	50	0	21.39	21.34	21.21	21.31	22
10	16QAM	1	0	21.38	21.36	21.13	21.33	
10	16QAM	1	25	21.27	21.32	21.09	21.14	
10	16QAM	1	49	21.38	21.30	21.06	21.26	22
10	16QAM	25	0	21.27	21.32	21.07	21.21	
10	16QAM	25	12	21.25	21.40	21.08	21.25	
10	16QAM	25	25	21.26	21.24	21.06	21.21	22
10	16QAM	50	0	21.24	21.33	21.05	21.27	
10	64QAM	1	0	20.94	21.20	20.86	20.95	
10	64QAM	1	25	21.08	21.07	20.77	20.92	22
10	64QAM	1	49	21.08	20.94	20.74	21.00	
10	64QAM	25	0	20.50	20.61	20.33	20.50	
10	64QAM	25	12	20.39	20.59	20.32	20.43	21.2
10	64QAM	25	25	20.53	20.55	20.33	20.54	
10	64QAM	50	0	20.51	20.63	20.24	20.45	
10	256QAM	1	0	17.63	17.78	17.59	17.72	19.2
10	256QAM	1	25	17.57	17.70	17.26	17.52	
10	256QAM	1	49	17.49	17.65	17.29	17.56	
10	256QAM	25	0	17.88	18.04	17.67	17.86	19.2
10	256QAM	25	12	17.83	17.92	17.65	17.80	
10	256QAM	25	25	17.90	17.90	17.64	17.83	
10	256QAM	50	0	17.72	17.72	17.73	17.68	Tune-up limit (dBm)
Channel				55265	55810	56170	56715	
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	21.29	21.37	21.21	21.44	22
5	QPSK	1	12	21.31	21.32	21.19	21.35	
5	QPSK	1	24	21.26	21.33	21.14	21.29	
5	QPSK	12	0	21.36	21.39	21.19	21.37	22
5	QPSK	12	7	21.40	21.37	21.12	21.31	
5	QPSK	12	13	21.33	21.36	21.19	21.40	
5	QPSK	25	0	21.37	21.30	21.13	21.28	22
5	16QAM	1	0	21.38	21.38	21.14	21.38	
5	16QAM	1	12	21.29	21.35	21.03	21.21	
5	16QAM	1	24	21.38	21.23	21.02	21.29	22
5	16QAM	12	0	21.25	21.23	21.09	21.23	
5	16QAM	12	7	21.26	21.34	21.08	21.28	
5	16QAM	12	13	21.25	21.28	21.13	21.27	22
5	16QAM	25	0	21.23	21.40	21.08	21.20	
5	64QAM	1	0	20.93	21.15	20.84	20.90	
5	64QAM	1	12	21.09	21.12	20.80	20.95	22
5	64QAM	1	24	21.08	20.93	20.77	20.90	
5	64QAM	12	0	20.47	20.57	20.36	20.44	
5	64QAM	12	7	20.34	20.66	20.32	20.43	21.2
5	64QAM	12	13	20.47	20.54	20.26	20.48	
5	64QAM	25	0	20.52	20.55	20.33	20.53	
5	256QAM	1	0	17.67	17.69	17.58	17.66	19.2
5	256QAM	1	12	17.49	17.62	17.37	17.42	
5	256QAM	1	24	17.41	17.58	17.21	17.53	
5	256QAM	12	0	17.86	18.04	17.62	17.73	19.2
5	256QAM	12	7	17.81	18.01	17.64	17.80	
5	256QAM	12	13	17.76	17.96	17.61	17.83	
5	256QAM	25	0	17.60	17.89	17.69	17.81	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	22.81	22.94	22.64	22.83	24.2
20	QPSK	1	49	22.79	22.82	22.61	22.75	
20	QPSK	1	99	22.93	22.84	22.76	22.82	
20	QPSK	50	0	21.90	22.03	21.81	21.95	23.2
20	QPSK	50	24	21.93	21.99	21.84	21.95	
20	QPSK	50	50	21.96	21.97	21.85	21.94	
20	QPSK	100	0	21.93	22.01	21.83	21.95	
20	16QAM	1	0	22.16	22.30	21.99	22.07	23.2
20	16QAM	1	49	21.69	22.15	21.94	22.08	
20	16QAM	1	99	22.26	22.18	22.08	22.14	
20	16QAM	50	0	20.98	21.10	20.85	20.99	22.2
20	16QAM	50	24	21.00	21.07	20.87	20.99	
20	16QAM	50	50	21.02	21.04	20.91	20.97	
20	16QAM	100	0	20.98	21.06	20.86	20.97	
20	64QAM	1	0	20.86	21.05	20.73	20.89	22.2
20	64QAM	1	49	20.85	20.87	20.82	20.83	
20	64QAM	1	99	20.92	20.87	20.78	20.82	
20	64QAM	50	0	19.92	20.04	19.81	19.96	21.2
20	64QAM	50	24	19.94	20.00	19.83	19.96	
20	64QAM	50	50	19.98	19.98	19.86	19.95	
20	64QAM	100	0	19.94	19.98	19.83	19.94	
20	256QAM	1	0	17.90	18.03	17.75	17.95	19.2
20	256QAM	1	49	17.77	17.89	17.68	17.82	
20	256QAM	1	99	17.81	17.95	17.63	17.88	
20	256QAM	50	0	17.92	18.12	17.83	18.04	19.2
20	256QAM	50	24	17.95	18.05	17.75	17.93	
20	256QAM	50	50	17.89	18.01	17.72	17.92	
20	256QAM	100	0	17.84	17.98	17.72	17.94	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	22.65	22.89	22.51	22.70	24.2
15	QPSK	1	37	22.62	22.80	22.61	22.70	
15	QPSK	1	74	22.86	22.79	22.62	22.66	
15	QPSK	36	0	21.78	21.87	21.79	21.88	23.2
15	QPSK	36	20	21.84	21.81	21.75	21.87	
15	QPSK	36	39	21.93	21.93	21.73	21.83	
15	QPSK	75	0	21.79	22.00	21.75	21.78	
15	16QAM	1	0	22.15	22.13	21.96	21.87	23.2
15	16QAM	1	37	21.55	22.03	21.79	21.98	
15	16QAM	1	74	22.21	22.11	22.08	22.01	
15	16QAM	36	0	20.82	21.09	20.65	20.79	22.2
15	16QAM	36	20	20.84	20.88	20.83	20.80	
15	16QAM	36	39	20.97	20.91	20.81	20.93	
15	16QAM	75	0	20.81	21.01	20.67	20.78	
15	64QAM	1	0	20.81	20.89	20.68	20.81	22.2
15	64QAM	1	37	20.72	20.79	20.80	20.75	
15	64QAM	1	74	20.78	20.83	20.78	20.62	
15	64QAM	36	0	19.82	19.98	19.79	19.86	21.2
15	64QAM	36	20	19.86	19.86	19.76	19.91	
15	64QAM	36	39	19.85	19.94	19.81	19.75	
15	64QAM	75	0	19.90	19.84	19.69	19.76	
15	256QAM	1	0	17.78	17.94	17.58	17.88	19.2
15	256QAM	1	37	17.61	17.77	17.54	17.62	
15	256QAM	1	74	17.68	17.94	17.62	17.77	
15	256QAM	36	0	17.81	18.12	17.64	17.97	19.2
15	256QAM	36	20	17.93	17.85	17.71	17.89	
15	256QAM	36	39	17.89	17.94	17.59	17.87	



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Report No. : FA4N0920C

15	256QAM	75	0	17.72	17.97	17.56	17.84	Tune-up limit (dBm)
Channel				55290	55815	56165	56690	
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	22.77	22.91	22.52	22.71	24.2
10	QPSK	1	25	22.71	22.74	22.56	22.73	
10	QPSK	1	49	22.78	22.76	22.58	22.68	
10	QPSK	25	0	21.80	21.85	21.64	21.78	23.2
10	QPSK	25	12	21.85	21.86	21.65	21.80	
10	QPSK	25	25	21.91	21.77	21.68	21.78	
10	QPSK	50	0	21.92	21.98	21.74	21.78	23.2
10	16QAM	1	0	22.12	22.25	21.93	22.07	
10	16QAM	1	25	21.60	22.06	21.81	21.91	
10	16QAM	1	49	22.15	22.08	21.95	21.97	22.2
10	16QAM	25	0	20.98	20.90	20.77	20.86	
10	16QAM	25	12	20.83	20.93	20.80	20.94	
10	16QAM	25	25	21.02	21.04	20.85	20.93	22.2
10	16QAM	50	0	20.92	20.87	20.86	20.78	
10	64QAM	1	0	20.68	21.01	20.65	20.88	
10	64QAM	1	25	20.78	20.85	20.74	20.73	22.2
10	64QAM	1	49	20.77	20.68	20.64	20.68	
10	64QAM	25	0	19.77	19.93	19.66	19.86	
10	64QAM	25	12	19.88	19.95	19.65	19.83	21.2
10	64QAM	25	25	19.81	19.97	19.81	19.88	
10	64QAM	50	0	19.77	19.80	19.77	19.89	
10	256QAM	1	0	17.76	17.96	17.75	17.78	19.2
10	256QAM	1	25	17.70	17.75	17.61	17.81	
10	256QAM	1	49	17.71	17.90	17.51	17.76	
10	256QAM	25	0	17.87	18.11	17.82	17.94	19.2
10	256QAM	25	12	17.83	17.96	17.60	17.86	
10	256QAM	25	25	17.74	17.90	17.54	17.75	
10	256QAM	50	0	17.81	17.85	17.70	17.88	Tune-up limit (dBm)
Channel				55265	55810	56170	56715	
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	22.72	22.81	22.47	22.78	24.2
5	QPSK	1	12	22.61	22.70	22.54	22.70	
5	QPSK	1	24	22.93	22.75	22.59	22.67	
5	QPSK	12	0	21.84	21.85	21.64	21.76	23.2
5	QPSK	12	7	21.90	21.79	21.81	21.81	
5	QPSK	12	13	21.76	21.89	21.72	21.90	
5	QPSK	25	0	21.79	21.83	21.68	21.94	23.2
5	16QAM	1	0	22.07	22.26	21.81	21.92	
5	16QAM	1	12	21.52	21.96	21.87	21.92	
5	16QAM	1	24	22.19	22.13	21.91	21.95	22.2
5	16QAM	12	0	20.85	20.99	20.81	20.80	
5	16QAM	12	7	20.84	20.97	20.76	20.94	
5	16QAM	12	13	20.94	21.02	20.84	20.77	22.2
5	16QAM	25	0	20.85	20.93	20.70	20.80	
5	64QAM	1	0	20.80	21.05	20.53	20.76	
5	64QAM	1	12	20.69	20.76	20.62	20.81	21.2
5	64QAM	1	24	20.91	20.87	20.77	20.82	
5	64QAM	12	0	19.83	20.02	19.68	19.96	
5	64QAM	12	7	19.91	19.92	19.83	19.86	19.2
5	64QAM	12	13	19.93	19.78	19.66	19.89	
5	64QAM	25	0	19.79	19.86	19.79	19.94	
5	256QAM	1	0	17.86	17.85	17.61	17.84	19.2
5	256QAM	1	12	17.71	17.81	17.67	17.67	
5	256QAM	1	24	17.65	17.92	17.53	17.86	
5	256QAM	12	0	17.80	18.11	17.69	18.02	19.2
5	256QAM	12	7	17.78	17.93	17.70	17.80	
5	256QAM	12	13	17.76	17.94	17.52	17.91	
5	256QAM	25	0	17.70	17.79	17.54	17.81	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	23.57	23.62	23.54	23.67	24.5
20	QPSK	1	49	23.55	23.56	23.59	23.61	
20	QPSK	1	99	23.59	23.63	23.58	23.54	
20	QPSK	50	0	22.53	22.71	22.66	22.72	23.5
20	QPSK	50	24	22.53	22.60	22.65	22.67	
20	QPSK	50	50	22.52	22.60	22.53	22.66	
20	QPSK	100	0	22.52	22.60	22.54	22.67	
20	16QAM	1	0	22.58	22.67	22.59	22.75	23.5
20	16QAM	1	49	22.60	22.67	22.62	22.75	
20	16QAM	1	99	22.52	22.58	22.53	22.67	
20	16QAM	50	0	21.52	21.62	21.55	21.68	22.5
20	16QAM	50	24	21.53	21.60	21.55	21.68	
20	16QAM	50	50	21.51	21.60	21.55	21.67	
20	16QAM	100	0	21.55	21.63	21.58	21.70	
20	64QAM	1	0	21.25	21.35	21.24	21.43	22.5
20	64QAM	1	49	21.25	21.34	21.26	21.41	
20	64QAM	1	99	21.20	21.14	21.22	21.35	
20	64QAM	50	0	20.60	20.69	20.62	20.75	21.5
20	64QAM	50	24	20.58	20.67	20.60	20.74	
20	64QAM	50	50	20.59	20.64	20.55	20.74	
20	64QAM	100	0	20.55	20.64	20.58	20.70	
20	256QAM	1	0	18.32	18.48	18.33	18.42	19.5
20	256QAM	1	49	18.15	18.30	18.18	18.30	
20	256QAM	1	99	18.25	18.36	18.21	18.39	
20	256QAM	50	0	18.49	18.64	18.57	18.58	19.5
20	256QAM	50	24	18.46	18.63	18.51	18.56	
20	256QAM	50	50	18.49	18.70	18.54	18.64	
20	256QAM	100	0	18.43	18.55	18.48	18.56	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	23.55	23.59	23.54	23.53	24.5
15	QPSK	1	37	23.49	23.51	23.41	23.43	
15	QPSK	1	74	23.46	23.46	23.55	23.50	
15	QPSK	36	0	22.50	22.63	22.52	22.63	23.5
15	QPSK	36	20	22.33	22.58	22.59	22.60	
15	QPSK	36	39	22.46	22.52	22.49	22.66	
15	QPSK	75	0	22.45	22.51	22.40	22.58	
15	16QAM	1	0	22.50	22.58	22.56	22.67	23.5
15	16QAM	1	37	22.55	22.52	22.49	22.59	
15	16QAM	1	74	22.51	22.52	22.36	22.52	
15	16QAM	36	0	21.37	21.49	21.41	21.49	22.5
15	16QAM	36	20	21.40	21.41	21.38	21.59	
15	16QAM	36	39	21.44	21.59	21.35	21.57	
15	16QAM	75	0	21.39	21.46	21.56	21.57	
15	64QAM	1	0	21.19	21.17	21.22	21.31	22.5
15	64QAM	1	37	21.21	21.23	21.23	21.28	
15	64QAM	1	74	21.14	21.01	21.21	21.15	
15	64QAM	36	0	20.49	20.61	20.56	20.67	21.5
15	64QAM	36	20	20.38	20.65	20.53	20.74	
15	64QAM	36	39	20.54	20.44	20.47	20.54	
15	64QAM	75	0	20.36	20.60	20.57	20.61	
15	256QAM	1	0	18.21	18.47	18.26	18.24	19.5
15	256QAM	1	37	17.95	18.17	18.06	18.24	
15	256QAM	1	74	18.07	18.18	18.13	18.20	
15	256QAM	36	0	18.33	18.59	18.45	18.58	19.5
15	256QAM	36	20	18.28	18.51	18.40	18.50	
15	256QAM	36	39	18.43	18.50	18.52	18.56	



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15	256QAM	75	0	18.28	18.38	18.42	18.45	Tune-up limit (dBm)
Channel				55290	55815	56165	56690	
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	23.52	23.46	23.44	23.56	24.5
10	QPSK	1	25	23.48	23.39	23.52	23.53	
10	QPSK	1	49	23.44	23.44	23.57	23.48	
10	QPSK	25	0	22.46	22.67	22.66	22.55	23.5
10	QPSK	25	12	22.47	22.59	22.55	22.50	
10	QPSK	25	25	22.39	22.48	22.46	22.48	
10	QPSK	50	0	22.50	22.54	22.37	22.63	23.5
10	16QAM	1	0	22.52	22.61	22.57	22.68	
10	16QAM	1	25	22.53	22.60	22.61	22.56	
10	16QAM	1	49	22.40	22.46	22.45	22.67	22.5
10	16QAM	25	0	21.52	21.47	21.41	21.67	
10	16QAM	25	12	21.48	21.50	21.48	21.48	
10	16QAM	25	25	21.40	21.60	21.50	21.48	22.5
10	16QAM	50	0	21.39	21.51	21.51	21.52	
10	64QAM	1	0	21.24	21.32	21.20	21.34	
10	64QAM	1	25	21.15	21.15	21.24	21.35	22.5
10	64QAM	1	49	21.05	20.94	21.14	21.22	
10	64QAM	25	0	20.50	20.67	20.46	20.66	
10	64QAM	25	12	20.57	20.66	20.40	20.74	21.5
10	64QAM	25	25	20.58	20.58	20.51	20.74	
10	64QAM	50	0	20.52	20.53	20.48	20.59	
10	256QAM	1	0	18.25	18.43	18.18	18.39	19.5
10	256QAM	1	25	18.14	18.28	18.18	18.30	
10	256QAM	1	49	18.17	18.34	18.21	18.39	
10	256QAM	25	0	18.42	18.56	18.47	18.45	19.5
10	256QAM	25	12	18.30	18.54	18.44	18.55	
10	256QAM	25	25	18.45	18.53	18.46	18.61	
10	256QAM	50	0	18.26	18.41	18.40	18.53	Tune-up limit (dBm)
Channel				55265	55810	56170	56715	
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	23.49	23.43	23.48	23.62	24.5
5	QPSK	1	12	23.48	23.52	23.42	23.52	
5	QPSK	1	24	23.39	23.58	23.47	23.34	
5	QPSK	12	0	22.40	22.72	22.56	22.55	23.5
5	QPSK	12	7	22.39	22.60	22.59	22.61	
5	QPSK	12	13	22.32	22.46	22.42	22.59	
5	QPSK	25	0	22.48	22.56	22.47	22.56	23.5
5	16QAM	1	0	22.42	22.60	22.43	22.74	
5	16QAM	1	12	22.41	22.47	22.53	22.69	
5	16QAM	1	24	22.33	22.57	22.38	22.54	22.5
5	16QAM	12	0	21.33	21.60	21.41	21.54	
5	16QAM	12	7	21.36	21.43	21.35	21.68	
5	16QAM	12	13	21.35	21.49	21.51	21.56	22.5
5	16QAM	25	0	21.52	21.44	21.41	21.61	
5	64QAM	1	0	21.16	21.30	21.07	21.34	
5	64QAM	1	12	21.20	21.26	21.17	21.38	22.5
5	64QAM	1	24	21.09	21.04	21.09	21.30	
5	64QAM	12	0	20.51	20.56	20.60	20.62	
5	64QAM	12	7	20.39	20.66	20.60	20.58	21.5
5	64QAM	12	13	20.49	20.45	20.44	20.63	
5	64QAM	25	0	20.38	20.54	20.58	20.60	
5	256QAM	1	0	18.18	18.34	18.29	18.23	19.5
5	256QAM	1	12	18.12	18.22	18.17	18.28	
5	256QAM	1	24	18.17	18.33	18.02	18.31	
5	256QAM	12	0	18.37	18.51	18.56	18.56	19.5
5	256QAM	12	7	18.46	18.62	18.44	18.55	
5	256QAM	12	13	18.33	18.54	18.53	18.51	
5	256QAM	25	0	18.28	18.39	18.32	18.45	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	22.86	22.76	22.74	22.74	23.7
20	QPSK	1	49	22.85	22.70	22.72	22.73	
20	QPSK	1	99	22.83	22.78	22.72	22.66	
20	QPSK	50	0	21.93	21.84	21.77	21.71	22.7
20	QPSK	50	24	21.92	21.82	21.75	21.70	
20	QPSK	50	50	21.78	21.83	21.76	21.70	
20	QPSK	100	0	21.78	21.77	21.74	21.71	
20	16QAM	1	0	21.84	21.89	21.77	21.80	22.7
20	16QAM	1	49	21.80	21.81	21.75	21.71	
20	16QAM	1	99	21.85	21.89	21.84	21.76	
20	16QAM	50	0	20.82	20.86	20.78	20.76	21.7
20	16QAM	50	24	20.82	20.86	20.78	20.75	
20	16QAM	50	50	20.84	20.87	20.81	20.74	
20	16QAM	100	0	20.81	20.86	20.78	20.74	
20	64QAM	1	0	20.53	20.58	20.46	20.47	21.7
20	64QAM	1	49	20.49	20.51	20.44	20.39	
20	64QAM	1	99	20.51	20.55	20.49	20.43	
20	64QAM	50	0	19.86	19.89	19.80	19.79	20.7
20	64QAM	50	24	19.84	19.88	19.80	19.75	
20	64QAM	50	50	19.84	19.86	19.82	19.77	
20	64QAM	100	0	19.85	19.87	19.80	19.75	
20	256QAM	1	0	17.70	17.74	17.72	17.62	18.7
20	256QAM	1	49	17.63	17.64	17.63	17.51	
20	256QAM	1	99	17.74	17.72	17.69	17.63	
20	256QAM	50	0	17.90	17.96	17.90	17.84	18.7
20	256QAM	50	24	17.88	17.85	17.90	17.80	
20	256QAM	50	50	17.94	18.01	18.03	17.93	
20	256QAM	100	0	17.90	17.88	17.91	17.80	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	22.72	22.56	22.74	22.72	23.7
15	QPSK	1	37	22.70	22.52	22.65	22.71	
15	QPSK	1	74	22.68	22.76	22.58	22.55	
15	QPSK	36	0	21.80	21.73	21.65	21.58	22.7
15	QPSK	36	20	21.92	21.74	21.66	21.55	
15	QPSK	36	39	21.72	21.74	21.58	21.66	
15	QPSK	75	0	21.61	21.67	21.60	21.54	
15	16QAM	1	0	21.69	21.85	21.65	21.70	22.7
15	16QAM	1	37	21.77	21.80	21.71	21.58	
15	16QAM	1	74	21.69	21.82	21.76	21.60	
15	16QAM	36	0	20.72	20.81	20.58	20.64	21.7
15	16QAM	36	20	20.77	20.75	20.75	20.57	
15	16QAM	36	39	20.76	20.73	20.73	20.59	
15	16QAM	75	0	20.63	20.79	20.74	20.62	
15	64QAM	1	0	20.43	20.41	20.43	20.45	21.7
15	64QAM	1	37	20.42	20.35	20.38	20.28	
15	64QAM	1	74	20.31	20.38	20.35	20.43	
15	64QAM	36	0	19.66	19.81	19.77	19.70	20.7
15	64QAM	36	20	19.80	19.77	19.76	19.61	
15	64QAM	36	39	19.80	19.83	19.67	19.66	
15	64QAM	75	0	19.81	19.67	19.80	19.67	
15	256QAM	1	0	17.60	17.61	17.69	17.44	18.7
15	256QAM	1	37	17.57	17.46	17.61	17.38	
15	256QAM	1	74	17.62	17.65	17.50	17.49	
15	256QAM	36	0	17.79	17.90	17.74	17.71	18.7
15	256QAM	36	20	17.79	17.71	17.76	17.66	
15	256QAM	36	39	17.81	17.83	17.88	17.86	



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15	256QAM	75	0	17.76	17.76	17.73	17.80	Tune-up limit (dBm)
Channel				55290	55815	56165	56690	
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	22.84	22.62	22.54	22.67	23.7
10	QPSK	1	25	22.85	22.62	22.72	22.69	
10	QPSK	1	49	22.80	22.67	22.65	22.46	
10	QPSK	25	0	21.93	21.78	21.66	21.59	22.7
10	QPSK	25	12	21.81	21.69	21.62	21.56	
10	QPSK	25	25	21.77	21.75	21.63	21.53	
10	QPSK	50	0	21.69	21.76	21.63	21.53	22.7
10	16QAM	1	0	21.78	21.78	21.72	21.79	
10	16QAM	1	25	21.71	21.66	21.75	21.62	
10	16QAM	1	49	21.72	21.81	21.66	21.56	21.7
10	16QAM	25	0	20.74	20.69	20.72	20.56	
10	16QAM	25	12	20.82	20.66	20.73	20.58	
10	16QAM	25	25	20.67	20.71	20.74	20.54	21.7
10	16QAM	50	0	20.77	20.75	20.72	20.64	
10	64QAM	1	0	20.35	20.48	20.35	20.42	
10	64QAM	1	25	20.32	20.35	20.34	20.19	21.7
10	64QAM	1	49	20.41	20.54	20.37	20.29	
10	64QAM	25	0	19.84	19.82	19.61	19.70	
10	64QAM	25	12	19.70	19.81	19.75	19.56	20.7
10	64QAM	25	25	19.67	19.76	19.81	19.60	
10	64QAM	50	0	19.82	19.72	19.64	19.75	
10	256QAM	1	0	17.53	17.73	17.54	17.51	18.7
10	256QAM	1	25	17.48	17.49	17.62	17.34	
10	256QAM	1	49	17.54	17.59	17.69	17.62	
10	256QAM	25	0	17.71	17.77	17.75	17.69	18.7
10	256QAM	25	12	17.69	17.70	17.89	17.78	
10	256QAM	25	25	17.94	17.82	17.93	17.74	
10	256QAM	50	0	17.78	17.86	17.73	17.70	Tune-up limit (dBm)
Channel				55265	55810	56170	56715	
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	22.85	22.56	22.72	22.69	23.7
5	QPSK	1	12	22.74	22.52	22.58	22.71	
5	QPSK	1	24	22.72	22.67	22.70	22.46	
5	QPSK	12	0	21.80	21.68	21.73	21.56	22.7
5	QPSK	12	7	21.86	21.63	21.69	21.52	
5	QPSK	12	13	21.64	21.76	21.64	21.51	
5	QPSK	25	0	21.58	21.72	21.69	21.56	22.7
5	16QAM	1	0	21.79	21.83	21.65	21.78	
5	16QAM	1	12	21.70	21.72	21.55	21.65	
5	16QAM	1	24	21.82	21.75	21.79	21.60	21.7
5	16QAM	12	0	20.65	20.71	20.58	20.73	
5	16QAM	12	7	20.72	20.78	20.65	20.67	
5	16QAM	12	13	20.72	20.67	20.68	20.72	21.7
5	16QAM	25	0	20.62	20.76	20.78	20.54	
5	64QAM	1	0	20.50	20.57	20.43	20.43	
5	64QAM	1	12	20.30	20.33	20.37	20.21	21.7
5	64QAM	1	24	20.48	20.35	20.41	20.30	
5	64QAM	12	0	19.73	19.72	19.78	19.66	
5	64QAM	12	7	19.72	19.78	19.65	19.71	20.7
5	64QAM	12	13	19.74	19.84	19.74	19.76	
5	64QAM	25	0	19.68	19.83	19.79	19.58	
5	256QAM	1	0	17.61	17.54	17.69	17.53	18.7
5	256QAM	1	12	17.44	17.54	17.58	17.41	
5	256QAM	1	24	17.67	17.67	17.63	17.59	
5	256QAM	12	0	17.74	17.92	17.81	17.77	18.7
5	256QAM	12	7	17.68	17.84	17.70	17.61	
5	256QAM	12	13	17.82	17.94	17.95	17.80	
5	256QAM	25	0	17.80	17.71	17.71	17.69	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	21.48	21.56	21.33	21.55	22.7
20	QPSK	1	49	21.47	21.50	21.30	21.48	
20	QPSK	1	99	21.46	21.45	21.24	21.43	
20	QPSK	50	0	21.52	21.53	21.35	21.48	22.7
20	QPSK	50	24	21.51	21.49	21.30	21.50	
20	QPSK	50	50	21.50	21.46	21.29	21.50	
20	QPSK	100	0	21.52	21.50	21.31	21.48	
20	16QAM	1	0	21.53	21.48	21.33	21.50	22.7
20	16QAM	1	49	21.45	21.48	21.19	21.34	
20	16QAM	1	99	21.49	21.40	21.21	21.42	
20	16QAM	50	0	21.37	21.43	21.24	21.37	
20	16QAM	50	24	21.40	21.52	21.23	21.39	22.2
20	16QAM	50	50	21.44	21.44	21.24	21.41	
20	16QAM	100	0	21.40	21.51	21.22	21.40	
20	64QAM	1	0	21.08	21.31	20.98	21.05	
20	64QAM	1	49	21.19	21.26	20.93	21.12	22.2
20	64QAM	1	99	21.20	21.09	20.91	21.10	
20	64QAM	50	0	20.64	20.77	20.50	20.62	
20	64QAM	50	24	20.52	20.76	20.47	20.61	
20	64QAM	50	50	20.63	20.69	20.46	20.67	21.2
20	64QAM	100	0	20.66	20.73	20.44	20.64	
20	256QAM	1	0	17.75	17.88	17.60	17.72	
20	256QAM	1	49	17.60	17.75	17.41	17.58	
20	256QAM	1	99	17.60	17.69	17.41	17.58	19.2
20	256QAM	50	0	17.88	18.04	17.75	17.86	
20	256QAM	50	24	17.92	18.04	17.74	17.86	
20	256QAM	50	50	17.91	18.03	17.73	17.83	
20	256QAM	100	0	17.79	17.92	17.73	17.85	Tune-up limit (dBm)
Channel				55315	55820	56160	56665	
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	21.31	21.46	21.20	21.43	22.7
15	QPSK	1	37	21.31	21.39	21.19	21.35	
15	QPSK	1	74	21.35	21.26	21.04	21.25	
15	QPSK	36	0	21.32	21.30	21.18	21.35	22.7
15	QPSK	36	20	21.32	21.32	21.15	21.35	
15	QPSK	36	39	21.34	21.36	21.15	21.33	
15	QPSK	75	0	21.34	21.31	21.19	21.30	
15	16QAM	1	0	21.41	21.31	21.21	21.33	22.7
15	16QAM	1	37	21.34	21.35	21.07	21.16	
15	16QAM	1	74	21.30	21.25	21.02	21.26	
15	16QAM	36	0	21.25	21.23	21.04	21.18	22.2
15	16QAM	36	20	21.20	21.41	21.04	21.24	
15	16QAM	36	39	21.33	21.32	21.04	21.31	
15	16QAM	75	0	21.25	21.37	21.04	21.24	
15	64QAM	1	0	20.94	21.11	20.82	20.86	22.2
15	64QAM	1	37	21.05	21.09	20.76	21.01	
15	64QAM	1	74	21.03	20.98	20.71	20.95	
15	64QAM	36	0	20.53	20.61	20.32	20.52	21.2
15	64QAM	36	20	20.37	20.62	20.31	20.48	
15	64QAM	36	39	20.53	20.57	20.30	20.51	
15	64QAM	75	0	20.52	20.55	20.26	20.46	
15	256QAM	1	0	17.63	17.80	17.54	17.66	19.2
15	256QAM	1	37	17.46	17.58	17.21	17.47	
15	256QAM	1	74	17.48	17.56	17.30	17.58	
15	256QAM	36	0	17.82	18.02	17.65	17.68	19.2
15	256QAM	36	20	17.75	17.87	17.74	17.74	
15	256QAM	36	39	17.74	17.98	17.71	17.79	



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15	256QAM	75	0	17.68	17.84	17.64	17.79	Tune-up limit (dBm)
Channel				55290	55815	56165	56690	
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	21.29	21.41	21.17	21.45	22.7
10	QPSK	1	25	21.30	21.40	21.12	21.36	
10	QPSK	1	49	21.28	21.28	21.11	21.30	
10	QPSK	25	0	21.37	21.31	21.21	21.29	22.7
10	QPSK	25	12	21.37	21.34	21.15	21.32	
10	QPSK	25	25	21.38	21.30	21.18	21.36	
10	QPSK	50	0	21.39	21.34	21.21	21.31	22.7
10	16QAM	1	0	21.38	21.36	21.13	21.33	
10	16QAM	1	25	21.27	21.32	21.09	21.14	
10	16QAM	1	49	21.38	21.30	21.06	21.26	22.2
10	16QAM	25	0	21.27	21.32	21.07	21.21	
10	16QAM	25	12	21.25	21.40	21.08	21.25	
10	16QAM	25	25	21.26	21.24	21.06	21.21	22.2
10	16QAM	50	0	21.24	21.33	21.05	21.27	
10	64QAM	1	0	20.94	21.20	20.86	20.95	
10	64QAM	1	25	21.08	21.07	20.77	20.92	21.2
10	64QAM	1	49	21.08	20.94	20.74	21.00	
10	64QAM	25	0	20.50	20.61	20.33	20.50	
10	64QAM	25	12	20.39	20.59	20.32	20.43	19.2
10	64QAM	25	25	20.53	20.55	20.33	20.54	
10	64QAM	50	0	20.51	20.63	20.24	20.45	
10	256QAM	1	0	17.63	17.78	17.59	17.72	19.2
10	256QAM	1	25	17.57	17.70	17.26	17.52	
10	256QAM	1	49	17.49	17.65	17.29	17.56	
10	256QAM	25	0	17.88	18.04	17.67	17.86	19.2
10	256QAM	25	12	17.83	17.92	17.65	17.80	
10	256QAM	25	25	17.90	17.90	17.64	17.83	
10	256QAM	50	0	17.72	17.72	17.73	17.68	Tune-up limit (dBm)
Channel				55265	55810	56170	56715	
Frequency (MHz)				3552.5	3607	3643	3697.5	Tune-up limit (dBm)
5	QPSK	1	0	21.29	21.37	21.21	21.44	
5	QPSK	1	12	21.31	21.32	21.19	21.35	22.7
5	QPSK	1	24	21.26	21.33	21.14	21.29	
5	QPSK	12	0	21.36	21.39	21.19	21.37	
5	QPSK	12	7	21.40	21.37	21.12	21.31	22.7
5	QPSK	12	13	21.33	21.36	21.19	21.40	
5	QPSK	25	0	21.37	21.30	21.13	21.28	
5	16QAM	1	0	21.38	21.38	21.14	21.38	22.7
5	16QAM	1	12	21.29	21.35	21.03	21.21	
5	16QAM	1	24	21.38	21.23	21.02	21.29	
5	16QAM	12	0	21.25	21.23	21.09	21.23	22.2
5	16QAM	12	7	21.26	21.34	21.08	21.28	
5	16QAM	12	13	21.25	21.28	21.13	21.27	
5	16QAM	25	0	21.23	21.40	21.08	21.20	22.2
5	64QAM	1	0	20.93	21.15	20.84	20.90	
5	64QAM	1	12	21.09	21.12	20.80	20.95	
5	64QAM	1	24	21.08	20.93	20.77	20.90	21.2
5	64QAM	12	0	20.47	20.57	20.36	20.44	
5	64QAM	12	7	20.34	20.66	20.32	20.43	
5	64QAM	12	13	20.47	20.54	20.26	20.48	19.2
5	64QAM	25	0	20.52	20.55	20.33	20.53	
5	256QAM	1	0	17.67	17.69	17.58	17.66	
5	256QAM	1	12	17.49	17.62	17.37	17.42	19.2
5	256QAM	1	24	17.41	17.58	17.21	17.53	
5	256QAM	12	0	17.86	18.04	17.62	17.73	
5	256QAM	12	7	17.81	18.01	17.64	17.80	19.2
5	256QAM	12	13	17.76	17.96	17.61	17.83	
5	256QAM	25	0	17.60	17.89	17.69	17.81	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	22.81	22.94	22.64	22.83	24.2
20	QPSK	1	49	22.79	22.82	22.61	22.75	
20	QPSK	1	99	22.93	22.84	22.76	22.82	
20	QPSK	50	0	21.90	22.03	21.81	21.95	23.2
20	QPSK	50	24	21.93	21.99	21.84	21.95	
20	QPSK	50	50	21.96	21.97	21.85	21.94	
20	QPSK	100	0	21.93	22.01	21.83	21.95	
20	16QAM	1	0	22.16	22.30	21.99	22.07	23.2
20	16QAM	1	49	21.69	22.15	21.94	22.08	
20	16QAM	1	99	22.26	22.18	22.08	22.14	
20	16QAM	50	0	20.98	21.10	20.85	20.99	22.2
20	16QAM	50	24	21.00	21.07	20.87	20.99	
20	16QAM	50	50	21.02	21.04	20.91	20.97	
20	16QAM	100	0	20.98	21.06	20.86	20.97	
20	64QAM	1	0	20.86	21.05	20.73	20.89	22.2
20	64QAM	1	49	20.85	20.87	20.82	20.83	
20	64QAM	1	99	20.92	20.87	20.78	20.82	
20	64QAM	50	0	19.92	20.04	19.81	19.96	21.2
20	64QAM	50	24	19.94	20.00	19.83	19.96	
20	64QAM	50	50	19.98	19.98	19.86	19.95	
20	64QAM	100	0	19.94	19.98	19.83	19.94	
20	256QAM	1	0	17.90	18.03	17.75	17.95	19.2
20	256QAM	1	49	17.77	17.89	17.68	17.82	
20	256QAM	1	99	17.81	17.95	17.63	17.88	
20	256QAM	50	0	17.92	18.12	17.83	18.04	19.2
20	256QAM	50	24	17.95	18.05	17.75	17.93	
20	256QAM	50	50	17.89	18.01	17.72	17.92	
20	256QAM	100	0	17.84	17.98	17.72	17.94	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	22.65	22.89	22.51	22.70	24.2
15	QPSK	1	37	22.62	22.80	22.61	22.70	
15	QPSK	1	74	22.86	22.79	22.62	22.66	
15	QPSK	36	0	21.78	21.87	21.79	21.88	23.2
15	QPSK	36	20	21.84	21.81	21.75	21.87	
15	QPSK	36	39	21.93	21.93	21.73	21.83	
15	QPSK	75	0	21.79	22.00	21.75	21.78	
15	16QAM	1	0	22.15	22.13	21.96	21.87	23.2
15	16QAM	1	37	21.55	22.03	21.79	21.98	
15	16QAM	1	74	22.21	22.11	22.08	22.01	
15	16QAM	36	0	20.82	21.09	20.65	20.79	22.2
15	16QAM	36	20	20.84	20.88	20.83	20.80	
15	16QAM	36	39	20.97	20.91	20.81	20.93	
15	16QAM	75	0	20.81	21.01	20.67	20.78	
15	64QAM	1	0	20.81	20.89	20.68	20.81	22.2
15	64QAM	1	37	20.72	20.79	20.80	20.75	
15	64QAM	1	74	20.78	20.83	20.78	20.62	
15	64QAM	36	0	19.82	19.98	19.79	19.86	21.2
15	64QAM	36	20	19.86	19.86	19.76	19.91	
15	64QAM	36	39	19.85	19.94	19.81	19.75	
15	64QAM	75	0	19.90	19.84	19.69	19.76	
15	256QAM	1	0	17.78	17.94	17.58	17.88	19.2
15	256QAM	1	37	17.61	17.77	17.54	17.62	
15	256QAM	1	74	17.68	17.94	17.62	17.77	
15	256QAM	36	0	17.81	18.12	17.64	17.97	19.2
15	256QAM	36	20	17.93	17.85	17.71	17.89	
15	256QAM	36	39	17.89	17.94	17.59	17.87	



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15	256QAM	75	0	17.72	17.97	17.56	17.84	Tune-up limit (dBm)
Channel				55290	55815	56165	56690	
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	22.77	22.91	22.52	22.71	24.2
10	QPSK	1	25	22.71	22.74	22.56	22.73	
10	QPSK	1	49	22.78	22.76	22.58	22.68	
10	QPSK	25	0	21.80	21.85	21.64	21.78	23.2
10	QPSK	25	12	21.85	21.86	21.65	21.80	
10	QPSK	25	25	21.91	21.77	21.68	21.78	
10	QPSK	50	0	21.92	21.98	21.74	21.78	23.2
10	16QAM	1	0	22.12	22.25	21.93	22.07	
10	16QAM	1	25	21.60	22.06	21.81	21.91	
10	16QAM	1	49	22.15	22.08	21.95	21.97	22.2
10	16QAM	25	0	20.98	20.90	20.77	20.86	
10	16QAM	25	12	20.83	20.93	20.80	20.94	
10	16QAM	25	25	21.02	21.04	20.85	20.93	22.2
10	16QAM	50	0	20.92	20.87	20.86	20.78	
10	64QAM	1	0	20.68	21.01	20.65	20.88	
10	64QAM	1	25	20.78	20.85	20.74	20.73	22.2
10	64QAM	1	49	20.77	20.68	20.64	20.68	
10	64QAM	25	0	19.77	19.93	19.66	19.86	
10	64QAM	25	12	19.88	19.95	19.65	19.83	21.2
10	64QAM	25	25	19.81	19.97	19.81	19.88	
10	64QAM	50	0	19.77	19.80	19.77	19.89	
10	256QAM	1	0	17.76	17.96	17.75	17.78	19.2
10	256QAM	1	25	17.70	17.75	17.61	17.81	
10	256QAM	1	49	17.71	17.90	17.51	17.76	
10	256QAM	25	0	17.87	18.11	17.82	17.94	19.2
10	256QAM	25	12	17.83	17.96	17.60	17.86	
10	256QAM	25	25	17.74	17.90	17.54	17.75	
10	256QAM	50	0	17.81	17.85	17.70	17.88	Tune-up limit (dBm)
Channel				55265	55810	56170	56715	
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	22.72	22.81	22.47	22.78	24.2
5	QPSK	1	12	22.61	22.70	22.54	22.70	
5	QPSK	1	24	22.93	22.75	22.59	22.67	
5	QPSK	12	0	21.84	21.85	21.64	21.76	23.2
5	QPSK	12	7	21.90	21.79	21.81	21.81	
5	QPSK	12	13	21.76	21.89	21.72	21.90	
5	QPSK	25	0	21.79	21.83	21.68	21.94	23.2
5	16QAM	1	0	22.07	22.26	21.81	21.92	
5	16QAM	1	12	21.52	21.96	21.87	21.92	
5	16QAM	1	24	22.19	22.13	21.91	21.95	22.2
5	16QAM	12	0	20.85	20.99	20.81	20.80	
5	16QAM	12	7	20.84	20.97	20.76	20.94	
5	16QAM	12	13	20.94	21.02	20.84	20.77	22.2
5	16QAM	25	0	20.85	20.93	20.70	20.80	
5	64QAM	1	0	20.80	21.05	20.53	20.76	
5	64QAM	1	12	20.69	20.76	20.62	20.81	22.2
5	64QAM	1	24	20.91	20.87	20.77	20.82	
5	64QAM	12	0	19.83	20.02	19.68	19.96	
5	64QAM	12	7	19.91	19.92	19.83	19.86	21.2
5	64QAM	12	13	19.93	19.78	19.66	19.89	
5	64QAM	25	0	19.79	19.86	19.79	19.94	
5	256QAM	1	0	17.86	17.85	17.61	17.84	19.2
5	256QAM	1	12	17.71	17.81	17.67	17.67	
5	256QAM	1	24	17.65	17.92	17.53	17.86	
5	256QAM	12	0	17.80	18.11	17.69	18.02	19.2
5	256QAM	12	7	17.78	17.93	17.70	17.80	
5	256QAM	12	13	17.76	17.94	17.52	17.91	
5	256QAM	25	0	17.70	17.79	17.54	17.81	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	23.57	23.62	23.54	23.67	24.4
20	QPSK	1	49	23.55	23.56	23.59	23.61	
20	QPSK	1	99	23.59	23.63	23.58	23.54	
20	QPSK	50	0	22.53	22.71	22.66	22.72	23.5
20	QPSK	50	24	22.53	22.60	22.65	22.67	
20	QPSK	50	50	22.52	22.60	22.53	22.66	
20	QPSK	100	0	22.52	22.60	22.54	22.67	
20	16QAM	1	0	22.58	22.67	22.59	22.75	23.5
20	16QAM	1	49	22.60	22.67	22.62	22.75	
20	16QAM	1	99	22.52	22.58	22.53	22.67	
20	16QAM	50	0	21.52	21.62	21.55	21.68	22.5
20	16QAM	50	24	21.53	21.60	21.55	21.68	
20	16QAM	50	50	21.51	21.60	21.55	21.67	
20	16QAM	100	0	21.55	21.63	21.58	21.70	
20	64QAM	1	0	21.25	21.35	21.24	21.43	22.5
20	64QAM	1	49	21.25	21.34	21.26	21.41	
20	64QAM	1	99	21.20	21.14	21.22	21.35	
20	64QAM	50	0	20.60	20.69	20.62	20.75	21.5
20	64QAM	50	24	20.58	20.67	20.60	20.74	
20	64QAM	50	50	20.59	20.64	20.55	20.74	
20	64QAM	100	0	20.55	20.64	20.58	20.70	
20	256QAM	1	0	18.32	18.48	18.33	18.42	19.5
20	256QAM	1	49	18.15	18.30	18.18	18.30	
20	256QAM	1	99	18.25	18.36	18.21	18.39	
20	256QAM	50	0	18.49	18.64	18.57	18.58	19.5
20	256QAM	50	24	18.46	18.63	18.51	18.56	
20	256QAM	50	50	18.49	18.70	18.54	18.64	
20	256QAM	100	0	18.43	18.55	18.48	18.56	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	23.55	23.59	23.54	23.53	24.4
15	QPSK	1	37	23.49	23.51	23.41	23.43	
15	QPSK	1	74	23.46	23.46	23.55	23.50	
15	QPSK	36	0	22.50	22.63	22.52	22.63	23.5
15	QPSK	36	20	22.33	22.58	22.59	22.60	
15	QPSK	36	39	22.46	22.52	22.49	22.66	
15	QPSK	75	0	22.45	22.51	22.40	22.58	
15	16QAM	1	0	22.50	22.58	22.56	22.67	23.5
15	16QAM	1	37	22.55	22.52	22.49	22.59	
15	16QAM	1	74	22.51	22.52	22.36	22.52	
15	16QAM	36	0	21.37	21.49	21.41	21.49	22.5
15	16QAM	36	20	21.40	21.41	21.38	21.59	
15	16QAM	36	39	21.44	21.59	21.35	21.57	
15	16QAM	75	0	21.39	21.46	21.56	21.57	
15	64QAM	1	0	21.19	21.17	21.22	21.31	22.5
15	64QAM	1	37	21.21	21.23	21.23	21.28	
15	64QAM	1	74	21.14	21.01	21.21	21.15	
15	64QAM	36	0	20.49	20.61	20.56	20.67	21.5
15	64QAM	36	20	20.38	20.65	20.53	20.74	
15	64QAM	36	39	20.54	20.44	20.47	20.54	
15	64QAM	75	0	20.36	20.60	20.57	20.61	
15	256QAM	1	0	18.21	18.47	18.26	18.24	19.5
15	256QAM	1	37	17.95	18.17	18.06	18.24	
15	256QAM	1	74	18.07	18.18	18.13	18.20	
15	256QAM	36	0	18.33	18.59	18.45	18.58	19.5
15	256QAM	36	20	18.28	18.51	18.40	18.50	
15	256QAM	36	39	18.43	18.50	18.52	18.56	



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15	256QAM	75	0	18.28	18.38	18.42	18.45	Tune-up limit (dBm)
Channel				55290	55815	56165	56690	
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	23.52	23.46	23.44	23.56	24.4
10	QPSK	1	25	23.48	23.39	23.52	23.53	
10	QPSK	1	49	23.44	23.44	23.57	23.48	
10	QPSK	25	0	22.46	22.67	22.66	22.55	23.5
10	QPSK	25	12	22.47	22.59	22.55	22.50	
10	QPSK	25	25	22.39	22.48	22.46	22.48	
10	QPSK	50	0	22.50	22.54	22.37	22.63	23.5
10	16QAM	1	0	22.52	22.61	22.57	22.68	
10	16QAM	1	25	22.53	22.60	22.61	22.56	
10	16QAM	1	49	22.40	22.46	22.45	22.67	22.5
10	16QAM	25	0	21.52	21.47	21.41	21.67	
10	16QAM	25	12	21.48	21.50	21.48	21.48	
10	16QAM	25	25	21.40	21.60	21.50	21.48	22.5
10	16QAM	50	0	21.39	21.51	21.51	21.52	
10	64QAM	1	0	21.24	21.32	21.20	21.34	
10	64QAM	1	25	21.15	21.15	21.24	21.35	22.5
10	64QAM	1	49	21.05	20.94	21.14	21.22	
10	64QAM	25	0	20.50	20.67	20.46	20.66	
10	64QAM	25	12	20.57	20.66	20.40	20.74	21.5
10	64QAM	25	25	20.58	20.58	20.51	20.74	
10	64QAM	50	0	20.52	20.53	20.48	20.59	
10	256QAM	1	0	18.25	18.43	18.18	18.39	19.5
10	256QAM	1	25	18.14	18.28	18.18	18.30	
10	256QAM	1	49	18.17	18.34	18.21	18.39	
10	256QAM	25	0	18.42	18.56	18.47	18.45	19.5
10	256QAM	25	12	18.30	18.54	18.44	18.55	
10	256QAM	25	25	18.45	18.53	18.46	18.61	
10	256QAM	50	0	18.26	18.41	18.40	18.53	Tune-up limit (dBm)
Channel				55265	55810	56170	56715	
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	23.49	23.43	23.48	23.62	24.4
5	QPSK	1	12	23.48	23.52	23.42	23.52	
5	QPSK	1	24	23.39	23.58	23.47	23.34	
5	QPSK	12	0	22.40	22.72	22.56	22.55	23.5
5	QPSK	12	7	22.39	22.60	22.59	22.61	
5	QPSK	12	13	22.32	22.46	22.42	22.59	
5	QPSK	25	0	22.48	22.56	22.47	22.56	23.5
5	16QAM	1	0	22.42	22.60	22.43	22.74	
5	16QAM	1	12	22.41	22.47	22.53	22.69	
5	16QAM	1	24	22.33	22.57	22.38	22.54	22.5
5	16QAM	12	0	21.33	21.60	21.41	21.54	
5	16QAM	12	7	21.36	21.43	21.35	21.68	
5	16QAM	12	13	21.35	21.49	21.51	21.56	22.5
5	16QAM	25	0	21.52	21.44	21.41	21.61	
5	64QAM	1	0	21.16	21.30	21.07	21.34	
5	64QAM	1	12	21.20	21.26	21.17	21.38	22.5
5	64QAM	1	24	21.09	21.04	21.09	21.30	
5	64QAM	12	0	20.51	20.56	20.60	20.62	
5	64QAM	12	7	20.39	20.66	20.60	20.58	21.5
5	64QAM	12	13	20.49	20.45	20.44	20.63	
5	64QAM	25	0	20.38	20.54	20.58	20.60	
5	256QAM	1	0	18.18	18.34	18.29	18.23	19.5
5	256QAM	1	12	18.12	18.22	18.17	18.28	
5	256QAM	1	24	18.17	18.33	18.02	18.31	
5	256QAM	12	0	18.37	18.51	18.56	18.56	19.5
5	256QAM	12	7	18.46	18.62	18.44	18.55	
5	256QAM	12	13	18.33	18.54	18.53	18.51	
5	256QAM	25	0	18.28	18.39	18.32	18.45	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	22.86	22.76	22.74	22.74	23.7
20	QPSK	1	49	22.85	22.70	22.72	22.73	
20	QPSK	1	99	22.83	22.78	22.72	22.66	
20	QPSK	50	0	21.93	21.84	21.77	21.71	22.7
20	QPSK	50	24	21.92	21.82	21.75	21.70	
20	QPSK	50	50	21.78	21.83	21.76	21.70	
20	QPSK	100	0	21.78	21.77	21.74	21.71	
20	16QAM	1	0	21.84	21.89	21.77	21.80	22.7
20	16QAM	1	49	21.80	21.81	21.75	21.71	
20	16QAM	1	99	21.85	21.89	21.84	21.76	
20	16QAM	50	0	20.82	20.86	20.78	20.76	21.7
20	16QAM	50	24	20.82	20.86	20.78	20.75	
20	16QAM	50	50	20.84	20.87	20.81	20.74	
20	16QAM	100	0	20.81	20.86	20.78	20.74	
20	64QAM	1	0	20.53	20.58	20.46	20.47	21.7
20	64QAM	1	49	20.49	20.51	20.44	20.39	
20	64QAM	1	99	20.51	20.55	20.49	20.43	
20	64QAM	50	0	19.86	19.89	19.80	19.79	20.7
20	64QAM	50	24	19.84	19.88	19.80	19.75	
20	64QAM	50	50	19.84	19.86	19.82	19.77	
20	64QAM	100	0	19.85	19.87	19.80	19.75	
20	256QAM	1	0	17.70	17.74	17.72	17.62	18.7
20	256QAM	1	49	17.63	17.64	17.63	17.51	
20	256QAM	1	99	17.74	17.72	17.69	17.63	
20	256QAM	50	0	17.90	17.96	17.90	17.84	18.7
20	256QAM	50	24	17.88	17.85	17.90	17.80	
20	256QAM	50	50	17.94	18.01	18.03	17.93	
20	256QAM	100	0	17.90	17.88	17.91	17.80	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	22.72	22.56	22.74	22.72	23.7
15	QPSK	1	37	22.70	22.52	22.65	22.71	
15	QPSK	1	74	22.68	22.76	22.58	22.55	
15	QPSK	36	0	21.80	21.73	21.65	21.58	22.7
15	QPSK	36	20	21.92	21.74	21.66	21.55	
15	QPSK	36	39	21.72	21.74	21.58	21.66	
15	QPSK	75	0	21.61	21.67	21.60	21.54	
15	16QAM	1	0	21.69	21.85	21.65	21.70	22.7
15	16QAM	1	37	21.77	21.80	21.71	21.58	
15	16QAM	1	74	21.69	21.82	21.76	21.60	
15	16QAM	36	0	20.72	20.81	20.58	20.64	21.7
15	16QAM	36	20	20.77	20.75	20.75	20.57	
15	16QAM	36	39	20.76	20.73	20.73	20.59	
15	16QAM	75	0	20.63	20.79	20.74	20.62	
15	64QAM	1	0	20.43	20.41	20.43	20.45	21.7
15	64QAM	1	37	20.42	20.35	20.38	20.28	
15	64QAM	1	74	20.31	20.38	20.35	20.43	
15	64QAM	36	0	19.66	19.81	19.77	19.70	20.7
15	64QAM	36	20	19.80	19.77	19.76	19.61	
15	64QAM	36	39	19.80	19.83	19.67	19.66	
15	64QAM	75	0	19.81	19.67	19.80	19.67	
15	256QAM	1	0	17.60	17.61	17.69	17.44	18.7
15	256QAM	1	37	17.57	17.46	17.61	17.38	
15	256QAM	1	74	17.62	17.65	17.50	17.49	
15	256QAM	36	0	17.79	17.90	17.74	17.71	18.7
15	256QAM	36	20	17.79	17.71	17.76	17.66	
15	256QAM	36	39	17.81	17.83	17.88	17.86	



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15	256QAM	75	0	17.76	17.76	17.73	17.80	Tune-up limit (dBm)
Channel				55290	55815	56165	56690	
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	22.84	22.62	22.54	22.67	23.7
10	QPSK	1	25	22.85	22.62	22.72	22.69	
10	QPSK	1	49	22.80	22.67	22.65	22.46	
10	QPSK	25	0	21.93	21.78	21.66	21.59	22.7
10	QPSK	25	12	21.81	21.69	21.62	21.56	
10	QPSK	25	25	21.77	21.75	21.63	21.53	
10	QPSK	50	0	21.69	21.76	21.63	21.53	
10	16QAM	1	0	21.78	21.78	21.72	21.79	22.7
10	16QAM	1	25	21.71	21.66	21.75	21.62	
10	16QAM	1	49	21.72	21.81	21.66	21.56	
10	16QAM	25	0	20.74	20.69	20.72	20.56	21.7
10	16QAM	25	12	20.82	20.66	20.73	20.58	
10	16QAM	25	25	20.67	20.71	20.74	20.54	
10	16QAM	50	0	20.77	20.75	20.72	20.64	
10	64QAM	1	0	20.35	20.48	20.35	20.42	21.7
10	64QAM	1	25	20.32	20.35	20.34	20.19	
10	64QAM	1	49	20.41	20.54	20.37	20.29	
10	64QAM	25	0	19.84	19.82	19.61	19.70	20.7
10	64QAM	25	12	19.70	19.81	19.75	19.56	
10	64QAM	25	25	19.67	19.76	19.81	19.60	
10	64QAM	50	0	19.82	19.72	19.64	19.75	
10	256QAM	1	0	17.53	17.73	17.54	17.51	18.7
10	256QAM	1	25	17.48	17.49	17.62	17.34	
10	256QAM	1	49	17.54	17.59	17.69	17.62	
10	256QAM	25	0	17.71	17.77	17.75	17.69	18.7
10	256QAM	25	12	17.69	17.70	17.89	17.78	
10	256QAM	25	25	17.94	17.82	17.93	17.74	
10	256QAM	50	0	17.78	17.86	17.73	17.70	
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	22.85	22.56	22.72	22.69	23.7
5	QPSK	1	12	22.74	22.52	22.58	22.71	
5	QPSK	1	24	22.72	22.67	22.70	22.46	
5	QPSK	12	0	21.80	21.68	21.73	21.56	22.7
5	QPSK	12	7	21.86	21.63	21.69	21.52	
5	QPSK	12	13	21.64	21.76	21.64	21.51	
5	QPSK	25	0	21.58	21.72	21.69	21.56	
5	16QAM	1	0	21.79	21.83	21.65	21.78	22.7
5	16QAM	1	12	21.70	21.72	21.55	21.65	
5	16QAM	1	24	21.82	21.75	21.79	21.60	
5	16QAM	12	0	20.65	20.71	20.58	20.73	21.7
5	16QAM	12	7	20.72	20.78	20.65	20.67	
5	16QAM	12	13	20.72	20.67	20.68	20.72	
5	16QAM	25	0	20.62	20.76	20.78	20.54	
5	64QAM	1	0	20.50	20.57	20.43	20.43	21.7
5	64QAM	1	12	20.30	20.33	20.37	20.21	
5	64QAM	1	24	20.48	20.35	20.41	20.30	
5	64QAM	12	0	19.73	19.72	19.78	19.66	20.7
5	64QAM	12	7	19.72	19.78	19.65	19.71	
5	64QAM	12	13	19.74	19.84	19.74	19.76	
5	64QAM	25	0	19.68	19.83	19.79	19.58	
5	256QAM	1	0	17.61	17.54	17.69	17.53	18.7
5	256QAM	1	12	17.44	17.54	17.58	17.41	
5	256QAM	1	24	17.67	17.67	17.63	17.59	
5	256QAM	12	0	17.74	17.92	17.81	17.77	18.7
5	256QAM	12	7	17.68	17.84	17.70	17.61	
5	256QAM	12	13	17.82	17.94	17.95	17.80	
5	256QAM	25	0	17.80	17.71	17.71	17.69	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	21.48	21.56	21.33	21.55	22
20	QPSK	1	49	21.47	21.50	21.30	21.48	
20	QPSK	1	99	21.46	21.45	21.24	21.43	
20	QPSK	50	0	21.52	21.53	21.35	21.48	22
20	QPSK	50	24	21.51	21.49	21.30	21.50	
20	QPSK	50	50	21.50	21.46	21.29	21.50	
20	QPSK	100	0	21.52	21.50	21.31	21.48	22
20	16QAM	1	0	21.53	21.48	21.33	21.50	
20	16QAM	1	49	21.45	21.48	21.19	21.34	
20	16QAM	1	99	21.49	21.40	21.21	21.42	22
20	16QAM	50	0	21.37	21.43	21.24	21.37	
20	16QAM	50	24	21.40	21.52	21.23	21.39	
20	16QAM	50	50	21.44	21.44	21.24	21.41	22
20	16QAM	100	0	21.40	21.51	21.22	21.40	
20	64QAM	1	0	21.08	21.31	20.98	21.05	
20	64QAM	1	49	21.19	21.26	20.93	21.12	22
20	64QAM	1	99	21.20	21.09	20.91	21.10	
20	64QAM	50	0	20.64	20.77	20.50	20.62	
20	64QAM	50	24	20.52	20.76	20.47	20.61	21.2
20	64QAM	50	50	20.63	20.69	20.46	20.67	
20	64QAM	100	0	20.66	20.73	20.44	20.64	
20	256QAM	1	0	17.75	17.88	17.60	17.72	19.2
20	256QAM	1	49	17.60	17.75	17.41	17.58	
20	256QAM	1	99	17.60	17.69	17.41	17.58	
20	256QAM	50	0	17.88	18.04	17.75	17.86	19.2
20	256QAM	50	24	17.92	18.04	17.74	17.86	
20	256QAM	50	50	17.91	18.03	17.73	17.83	
20	256QAM	100	0	17.79	17.92	17.73	17.85	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	21.31	21.46	21.20	21.43	22
15	QPSK	1	37	21.31	21.39	21.19	21.35	
15	QPSK	1	74	21.35	21.26	21.04	21.25	
15	QPSK	36	0	21.32	21.30	21.18	21.35	22
15	QPSK	36	20	21.32	21.32	21.15	21.35	
15	QPSK	36	39	21.34	21.36	21.15	21.33	
15	QPSK	75	0	21.34	21.31	21.19	21.30	22
15	16QAM	1	0	21.41	21.31	21.21	21.33	
15	16QAM	1	37	21.34	21.35	21.07	21.16	
15	16QAM	1	74	21.30	21.25	21.02	21.26	22
15	16QAM	36	0	21.25	21.23	21.04	21.18	
15	16QAM	36	20	21.20	21.41	21.04	21.24	
15	16QAM	36	39	21.33	21.32	21.04	21.31	22
15	16QAM	75	0	21.25	21.37	21.04	21.24	
15	64QAM	1	0	20.94	21.11	20.82	20.86	
15	64QAM	1	37	21.05	21.09	20.76	21.01	22
15	64QAM	1	74	21.03	20.98	20.71	20.95	
15	64QAM	36	0	20.53	20.61	20.32	20.52	
15	64QAM	36	20	20.37	20.62	20.31	20.48	21.2
15	64QAM	36	39	20.53	20.57	20.30	20.51	
15	64QAM	75	0	20.52	20.55	20.26	20.46	
15	256QAM	1	0	17.63	17.80	17.54	17.66	19.2
15	256QAM	1	37	17.46	17.58	17.21	17.47	
15	256QAM	1	74	17.48	17.56	17.30	17.58	
15	256QAM	36	0	17.82	18.02	17.65	17.68	19.2
15	256QAM	36	20	17.75	17.87	17.74	17.74	
15	256QAM	36	39	17.74	17.98	17.71	17.79	



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Report No. : FA4N0920C

15	256QAM	75	0	17.68	17.84	17.64	17.79	Tune-up limit (dBm)
Channel				55290	55815	56165	56690	
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	21.29	21.41	21.17	21.45	22
10	QPSK	1	25	21.30	21.40	21.12	21.36	
10	QPSK	1	49	21.28	21.28	21.11	21.30	
10	QPSK	25	0	21.37	21.31	21.21	21.29	22
10	QPSK	25	12	21.37	21.34	21.15	21.32	
10	QPSK	25	25	21.38	21.30	21.18	21.36	
10	QPSK	50	0	21.39	21.34	21.21	21.31	22
10	16QAM	1	0	21.38	21.36	21.13	21.33	
10	16QAM	1	25	21.27	21.32	21.09	21.14	
10	16QAM	1	49	21.38	21.30	21.06	21.26	22
10	16QAM	25	0	21.27	21.32	21.07	21.21	
10	16QAM	25	12	21.25	21.40	21.08	21.25	
10	16QAM	25	25	21.26	21.24	21.06	21.21	22
10	16QAM	50	0	21.24	21.33	21.05	21.27	
10	64QAM	1	0	20.94	21.20	20.86	20.95	
10	64QAM	1	25	21.08	21.07	20.77	20.92	22
10	64QAM	1	49	21.08	20.94	20.74	21.00	
10	64QAM	25	0	20.50	20.61	20.33	20.50	
10	64QAM	25	12	20.39	20.59	20.32	20.43	21.2
10	64QAM	25	25	20.53	20.55	20.33	20.54	
10	64QAM	50	0	20.51	20.63	20.24	20.45	
10	256QAM	1	0	17.63	17.78	17.59	17.72	19.2
10	256QAM	1	25	17.57	17.70	17.26	17.52	
10	256QAM	1	49	17.49	17.65	17.29	17.56	
10	256QAM	25	0	17.88	18.04	17.67	17.86	19.2
10	256QAM	25	12	17.83	17.92	17.65	17.80	
10	256QAM	25	25	17.90	17.90	17.64	17.83	
10	256QAM	50	0	17.72	17.72	17.73	17.68	Tune-up limit (dBm)
Channel				55265	55810	56170	56715	
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	21.29	21.37	21.21	21.44	22
5	QPSK	1	12	21.31	21.32	21.19	21.35	
5	QPSK	1	24	21.26	21.33	21.14	21.29	
5	QPSK	12	0	21.36	21.39	21.19	21.37	22
5	QPSK	12	7	21.40	21.37	21.12	21.31	
5	QPSK	12	13	21.33	21.36	21.19	21.40	
5	QPSK	25	0	21.37	21.30	21.13	21.28	22
5	16QAM	1	0	21.38	21.38	21.14	21.38	
5	16QAM	1	12	21.29	21.35	21.03	21.21	
5	16QAM	1	24	21.38	21.23	21.02	21.29	22
5	16QAM	12	0	21.25	21.23	21.09	21.23	
5	16QAM	12	7	21.26	21.34	21.08	21.28	
5	16QAM	12	13	21.25	21.28	21.13	21.27	22
5	16QAM	25	0	21.23	21.40	21.08	21.20	
5	64QAM	1	0	20.93	21.15	20.84	20.90	
5	64QAM	1	12	21.09	21.12	20.80	20.95	22
5	64QAM	1	24	21.08	20.93	20.77	20.90	
5	64QAM	12	0	20.47	20.57	20.36	20.44	
5	64QAM	12	7	20.34	20.66	20.32	20.43	21.2
5	64QAM	12	13	20.47	20.54	20.26	20.48	
5	64QAM	25	0	20.52	20.55	20.33	20.53	
5	256QAM	1	0	17.67	17.69	17.58	17.66	19.2
5	256QAM	1	12	17.49	17.62	17.37	17.42	
5	256QAM	1	24	17.41	17.58	17.21	17.53	
5	256QAM	12	0	17.86	18.04	17.62	17.73	19.2
5	256QAM	12	7	17.81	18.01	17.64	17.80	
5	256QAM	12	13	17.76	17.96	17.61	17.83	
5	256QAM	25	0	17.60	17.89	17.69	17.81	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	22.81	22.94	22.64	22.83	24.2
20	QPSK	1	49	22.79	22.82	22.61	22.75	
20	QPSK	1	99	22.93	22.84	22.76	22.82	
20	QPSK	50	0	21.90	22.03	21.81	21.95	23.2
20	QPSK	50	24	21.93	21.99	21.84	21.95	
20	QPSK	50	50	21.96	21.97	21.85	21.94	
20	QPSK	100	0	21.93	22.01	21.83	21.95	
20	16QAM	1	0	22.16	22.30	21.99	22.07	23.2
20	16QAM	1	49	21.69	22.15	21.94	22.08	
20	16QAM	1	99	22.26	22.18	22.08	22.14	
20	16QAM	50	0	20.98	21.10	20.85	20.99	22.2
20	16QAM	50	24	21.00	21.07	20.87	20.99	
20	16QAM	50	50	21.02	21.04	20.91	20.97	
20	16QAM	100	0	20.98	21.06	20.86	20.97	
20	64QAM	1	0	20.86	21.05	20.73	20.89	22.2
20	64QAM	1	49	20.85	20.87	20.82	20.83	
20	64QAM	1	99	20.92	20.87	20.78	20.82	
20	64QAM	50	0	19.92	20.04	19.81	19.96	21.2
20	64QAM	50	24	19.94	20.00	19.83	19.96	
20	64QAM	50	50	19.98	19.98	19.86	19.95	
20	64QAM	100	0	19.94	19.98	19.83	19.94	
20	256QAM	1	0	17.90	18.03	17.75	17.95	19.2
20	256QAM	1	49	17.77	17.89	17.68	17.82	
20	256QAM	1	99	17.81	17.95	17.63	17.88	
20	256QAM	50	0	17.92	18.12	17.83	18.04	19.2
20	256QAM	50	24	17.95	18.05	17.75	17.93	
20	256QAM	50	50	17.89	18.01	17.72	17.92	
20	256QAM	100	0	17.84	17.98	17.72	17.94	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	22.65	22.89	22.51	22.70	24.2
15	QPSK	1	37	22.62	22.80	22.61	22.70	
15	QPSK	1	74	22.86	22.79	22.62	22.66	
15	QPSK	36	0	21.78	21.87	21.79	21.88	23.2
15	QPSK	36	20	21.84	21.81	21.75	21.87	
15	QPSK	36	39	21.93	21.93	21.73	21.83	
15	QPSK	75	0	21.79	22.00	21.75	21.78	
15	16QAM	1	0	22.15	22.13	21.96	21.87	23.2
15	16QAM	1	37	21.55	22.03	21.79	21.98	
15	16QAM	1	74	22.21	22.11	22.08	22.01	
15	16QAM	36	0	20.82	21.09	20.65	20.79	22.2
15	16QAM	36	20	20.84	20.88	20.83	20.80	
15	16QAM	36	39	20.97	20.91	20.81	20.93	
15	16QAM	75	0	20.81	21.01	20.67	20.78	
15	64QAM	1	0	20.81	20.89	20.68	20.81	22.2
15	64QAM	1	37	20.72	20.79	20.80	20.75	
15	64QAM	1	74	20.78	20.83	20.78	20.62	
15	64QAM	36	0	19.82	19.98	19.79	19.86	21.2
15	64QAM	36	20	19.86	19.86	19.76	19.91	
15	64QAM	36	39	19.85	19.94	19.81	19.75	
15	64QAM	75	0	19.90	19.84	19.69	19.76	
15	256QAM	1	0	17.78	17.94	17.58	17.88	19.2
15	256QAM	1	37	17.61	17.77	17.54	17.62	
15	256QAM	1	74	17.68	17.94	17.62	17.77	
15	256QAM	36	0	17.81	18.12	17.64	17.97	19.2
15	256QAM	36	20	17.93	17.85	17.71	17.89	
15	256QAM	36	39	17.89	17.94	17.59	17.87	