

DisplayRide Inc

Tune-up (dBm) procedure

This is to formally certify that:

The tune up procedures of Rideshare Monitoring Platform(FCC ID: 2A4Q3-RMP)

The tune up procedures of is not open to end user. The end user is not allowed to perform final tune. All the power and frequency set up were finished at the manufacturer stage.

Tune up procedure shall be over the power range or at specific operating power levels.

Procedure:

1. Set the phone to operational voltage and on one certain channel in a special service mode by means of company proprietary software.
2. The actual power is measured at several power levels.
3. The gain factors of each individual phone are adjusted via the Board-test SW using automatic adjustment arithmetic until the Tune-up Range (dBm) value is met.

It must provide an operational voltage (DC 3.7V by battery) to turn on the device and on one certain channel in service mode by means of company proprietary software. spectrum analyzer(Agilent, N9020A) and Power meter

(DARE, RPR3006W)measures the 2.4G/5G device specific RF characteristics.

Base station simulator (R&S CMW500) measures the 3G/4G device specific RF characteristics. The maximum power of each individual channels are adjusted until the target value met.

2.4G WIFI

Mode	Channel	Frequency (MHz)	Tune-up	Output Power (dBm)
802.11b	1	2412	18	17.78
	6	2437	18	17.43
	11	2462	18	17.26
802.11g	1	2412	17	16.11
	6	2437	17	15.31
	11	2462	17	15.43
802.11n HT20	1	2412	14	13.47
	6	2437	14	13.61
	11	2462	14	12.74
802.11n HT40	3	2422	14	12.86
	6	2437	14	13
	9	2452	14	13.07

5.2G WIFI

Mode	Channel	Frequency (MHz)	Tune-up	Output Power (dBm)
802.11a	36	5180	11	10.42
	40	5200	11	10.45
	48	5240	11	10.95
802.11n HT20	36	5180	12	10.69
	40	5200	12	10.71
	48	5240	12	11.22
802.11n HT40	38	5190	11	10.1
	46	5230	11	10.61
802.11ac VHT20	36	5180	12	11.13
	40	5200	12	10.96
	48	5240	12	10.5
802.11ac VHT40	38	5190	11	10.82
	46	5230	11	9.8
802.11ac VHT80	42	5210	11	10.34

5.8G WIFI

Mode	Channel	Frequency (MHz)	Tune-up	Output Power (dBm)
802.11a	149	5745	10	9.83
	157	5785	10	9.19
	165	5825	10	8.82
802.11n HT20	149	5745	10	9.9
	157	5785	10	9.27
	165	5825	10	8.93
802.11n HT40	151	5755	10	9.36
	159	5795	10	9.32
802.11ac VHT20	149	5745	10	8.97
	157	5785	10	9.86
	165	5825	10	9.27
802.11ac VHT40	151	5755	10	8.89
	159	5795	10	9.35
802.11ac VHT80	155	5775	10	9.33

BR+EDR

BR+EDR	Output Power (dBm)				
	Channel	Tune-up	Data Rates		
			1M	2M	3M
0CH	8	7.279	7.3	7.647	
39CH	7	6.786	6.691	6.807	
78CH	7	6.24	6.029	6.56	

BLE

BLE	Channel	Tune-up	Output Power (dBm)
	0CH	2	2.869
	19CH	2	1.570
	39CH	2	2.074

LTE

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		18607/1850.7	18900/1880	19193/1909.3
LTE Band II	1.4MHz	QPSK	1	0	23.00	21.84	22.92	22.72
			1	2	23.00	22.99	22.93	22.78
			1	5	23.00	22.87	22.89	22.67
			3	0	24.00	22.89	23.05	22.79
			3	1	24.00	22.89	22.99	22.82
			3	2	24.00	22.84	22.93	22.8
		16QAM	6	0	22.00	21.86	21.85	21.77
			1	0	23.00	21.89	22.12	22.06
			1	2	23.00	21.8	22.11	22
			1	5	23.00	21.85	22.06	21.99
			3	0	23.00	22.08	22.09	21.96
			3	1	23.00	22.16	22.13	22.05
			3	2	23.00	22.09	22.06	21.97
			6	0	22.00	21.01	21.02	20.94
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		18615/1851.5	18900/1880	19185/1908.5
LTE Band II	3MHz	QPSK	1	0	23.00	22.94	22.96	22.99
			1	7	23.00	22.94	22.91	22.89
			1	14	23.00	22.97	22.82	22.91
			8	0	22.00	21.91	21.96	21.83
			8	4	22.00	21.91	21.91	21.86
			8	7	22.00	21.84	21.85	21.81
			15	0	22.00	21.91	21.86	21.88
		16QAM	1	0	23.00	22.48	22.18	21.79
			1	7	23.00	22.49	22.15	21.78
			1	14	23.00	22.3	22.07	21.73
			8	0	21.00	20.91	20.96	20.83
			8	4	21.00	20.92	20.91	20.83
			8	7	21.00	20.86	20.86	20.75
			15	0	21.00	20.93	20.87	20.88
Band	Band	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		

	Width		RB Size	RB Offset		18625/1852.5	18900/1880	19175/1907.5
LTE Band II	5MHz	QPSK	1	0	24.00	23.05	23.1	22.9
			1	12	24.00	22.8	22.83	22.74
			1	24	24.00	22.93	23.02	22.71
			12	0	23.00	21.95	22.02	21.93
			12	6	23.00	21.91	21.92	21.88
			12	11	23.00	21.96	21.82	21.86
		16QAM	25	0	22.00	21.89	21.88	21.79
			1	0	23.00	22.55	22.33	22.21
			1	12	23.00	22.38	22.19	22.27
			1	24	23.00	22.45	22.3	22.14
			12	0	21.00	21	20.98	20.92
			12	6	21.00	20.91	20.86	20.79
			12	11	21.00	20.88	20.75	20.73
			25	0	21.00	20.87	20.94	20.8
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		18650/1855	18900/1880	19150/1905
LTE Band II	10MHz	QPSK	1	0	24.00	23.09	23.06	23.08
			1	24	24.00	22.86	22.88	22.89
			1	49	24.00	22.96	22.98	22.97
			25	0	22.00	21.89	21.88	21.89
			25	12	22.00	21.89	21.89	21.8
			25	24	22.00	21.85	21.89	21.87
			50	0	22.00	21.88	21.91	21.81
		16QAM	1	0	23.00	22.5	22.27	21.95
			1	24	23.00	22.33	22.13	21.66
			1	49	23.00	22.41	22.22	21.79
			25	0	21.00	20.89	20.88	20.86
			25	12	21.00	20.89	20.92	20.79
			25	24	21.00	20.85	20.91	20.8
			50	0	21.00	20.88	20.97	20.78
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		18675/1857.5	18900/1880	19125/1902.5
LTE Band II	15MHz	QPSK	1	0	24.00	22.94	23.08	23.05
			1	37	24.00	22.65	22.11	23.23
			1	74	24.00	22.86	22.81	22.77
			36	0	22.00	21.87	21.81	21.78
			36	18	22.00	21.82	21.81	21.69
			36	37	22.00	21.84	21.73	21.73
			75	0	22.00	21.85	21.8	21.79
		16QAM	1	0	23.00	22.53	22.28	22.21
			1	37	23.00	22.23	21.93	21.68
			1	74	23.00	22.33	22.28	21.93
			36	0	21.00	20.89	20.95	20.76
			36	18	21.00	20.84	20.97	20.68
			36	37	21.00	20.86	20.95	20.73
			75	0	21.00	20.88	20.89	20.84

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		18700/1860	18900/1880	19100/1900
LTE Band II	20MHz	QPSK	1	0	24.00	23.06	22.96	23
			1	49	24.00	22.94	22.72	22.71
			1	99	24.00	22.62	22.73	22.53
			50	0	22.00	21.94	21.93	21.87
			50	24	22.00	21.83	21.85	21.83
			50	49	22.00	21.64	21.73	21.7
			100	0	22.00	21.83	21.87	21.81
		16QAM	1	0	23.00	22.36	22.21	22.31
			1	49	23.00	22.15	22.12	22.02
			1	99	23.00	22.01	22.01	21.81
			50	0	21.00	20.97	20.92	20.9
			50	24	21.00	20.86	20.91	20.87
			50	49	21.00	20.75	20.77	20.71
			100	0	21.00	20.81	20.82	20.82

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		19957/1710.7	20175/1732.5	20393/1754.3
LTE Band IV	1.4MHz	QPSK	1	0	23.00	21.69	22.66	22.69
			1	2	23.00	22.86	22.64	22.64
			1	5	23.00	22.78	22.7	22.59
			3	0	23.00	22.74	22.71	22.64
			3	1	23.00	22.73	22.79	22.67
			3	2	23.00	22.72	22.66	22.66
			6	0	22.00	21.74	21.66	21.57
		16QAM	1	0	22.00	21.62	21.82	21.89
			1	2	22.00	21.77	21.91	21.93
			1	5	22.00	21.69	21.85	21.96
			3	0	22.00	21.84	21.81	21.88
			3	1	22.00	21.98	21.92	21.86
			3	2	22.00	21.84	21.78	21.89
			6	0	21.00	20.94	20.79	20.8

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		19965/1711.5	20175/1732.5	20385/1753.5
LTE Band IV	3MHz	QPSK	1	0	23.00	22.73	22.62	22.75
			1	7	23.00	22.81	22.67	22.73
			1	14	23.00	22.66	22.6	22.65
			8	0	22.00	21.71	21.65	21.71
			8	4	22.00	21.79	21.64	21.7
			8	7	22.00	21.64	21.65	21.61
			15	0	22.00	21.73	21.65	21.6
		16QAM	1	0	23.00	22.42	22.08	21.76
			1	7	23.00	22.49	22.07	21.62
			1	14	23.00	22.46	21.96	21.53
			8	0	21.00	20.82	20.73	20.79
			8	4	21.00	20.79	20.71	20.69
			8	7	21.00	20.66	20.67	20.67

Band	Band Width	Modulation	15	0	21.00	20.76	20.63	20.69
			RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		19975/1712.5	20175/1732.5	20375/1752.5
LTE Band IV	5MHz	QPSK	1	0	23.00	22.87	22.8	22.96
			1	12	23.00	22.76	22.35	22.49
			1	24	23.00	22.78	22.65	22.81
			12	0	22.00	21.86	21.73	21.77
			12	6	22.00	21.79	21.68	21.7
			12	11	22.00	21.82	21.62	21.69
			25	0	22.00	21.69	21.68	21.64
		16QAM	1	0	23.00	22.47	22.19	22.27
			1	12	23.00	22.35	22.04	22.14
			1	24	23.00	22.39	22	22.06
			12	0	21.00	20.83	20.61	20.79
			12	6	21.00	20.73	20.59	20.72
			12	11	21.00	20.76	20.55	20.74
			25	0	21.00	20.69	20.67	20.68
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20000/1715	20175/1732.5	20350/1750
			LTE Band IV	10MHz	QPSK	1	0	24.00
1	24	24.00				22.74	22.66	22.71
1	49	24.00				22.01	23.01	22.92
25	0	22.00				21.78	21.81	21.77
25	12	22.00				21.86	21.69	21.72
25	24	22.00				21.91	21.77	21.83
50	0	22.00				21.85	21.74	21.79
16QAM	1	0			23.00	22.7	22.21	21.85
	1	24			23.00	22.4	21.9	21.5
	1	49			23.00	21.27	22.21	21.86
	25	0			21.00	20.78	20.82	20.82
	25	12			21.00	20.82	20.71	20.72
	25	24			21.00	20.8	20.82	20.81
	50	0			21.00	20.82	20.76	20.82
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20025/1717.5	20175/1732.5	20325/1747.5
			LTE Band IV	15MHz	QPSK	1	0	24.00
1	37	24.00				22.54	22.17	23.1
1	74	24.00				22.77	23.04	22.99
36	0	22.00				21.69	21.85	21.77
36	18	22.00				21.65	21.73	21.74
36	37	22.00				21.85	21.79	21.76
75	0	22.00				21.79	21.72	21.74
16QAM	1	0			23.00	22.71	22.26	22.19
	1	37			23.00	22.28	22.13	21.77
	1	74			23.00	22.44	22.44	22.09
	36	0			21.00	20.69	20.82	20.77
	36	18			21.00	20.66	20.77	20.73

			36	37	21.00	20.84	20.92	20.8
			75	0	21.00	20.77	20.78	20.8
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20050/1720	20175/1732.5	20300/1745
LTE Band IV	20MHz	QPSK	1	0	24.00	22.72	22.88	23.04
			1	49	24.00	22.56	22.31	22.67
			1	99	24.00	23.01	22.83	22.88
			50	0	22.00	21.77	21.86	21.86
			50	24	22.00	21.68	21.68	21.69
			50	49	22.00	21.83	21.82	21.82
		16QAM	100	0	22.00	21.75	21.8	21.88
			1	0	23.00	22.44	22.34	22.34
			1	49	23.00	22.23	22.09	21.91
			1	99	23.00	22.63	22.46	22.04
			50	0	21.00	20.79	20.69	20.91
			50	24	21.00	20.79	20.65	20.78
			50	49	21.00	20.91	20.9	20.87
			100	0	21.00	20.77	20.77	20.88

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20407/824.7	20525/836.5	20643/848.3
LTE Band V	1.4MHz	QPSK	1	0	23.00	21.47	22.48	22.49
			1	2	23.00	22.61	22.62	22.55
			1	5	23.00	22.5	22.47	22.48
			3	0	23.00	22.52	22.58	22.5
			3	1	23.00	22.52	22.58	22.67
			3	2	23.00	22.45	22.48	22.53
		16QAM	6	0	22.00	21.52	21.47	21.51
			1	0	22.00	21.32	21.59	21.73
			1	2	22.00	21.37	21.74	21.82
			1	5	22.00	21.41	21.62	21.75
			3	0	22.00	21.64	21.69	21.71
			3	1	22.00	21.67	21.72	21.77
			3	2	22.00	21.62	21.62	21.79
			6	0	21.00	20.65	20.63	20.66

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20415/825.5	20525/836.5	20635/847.5
LTE Band V	3MHz	QPSK	1	0	23.00	22.46	22.43	22.55
			1	7	23.00	22.5	22.61	22.51
			1	14	23.00	22.53	22.39	22.57
			8	0	22.00	21.47	21.42	21.43
			8	4	22.00	21.54	21.51	21.53
			8	7	22.00	21.48	21.44	21.52
			15	0	22.00	21.52	21.5	21.56
		16QAM	1	0	22.00	21.77	21.7	21.42
			1	7	22.00	21.79	21.68	21.34
			1	14	22.00	21.79	21.65	21.44
			8	0	21.00	20.55	20.45	20.43

			8	4	21.00	20.56	20.5	20.52
			8	7	21.00	20.5	20.44	20.51
			15	0	21.00	20.55	20.46	20.55
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20425/826.5	20525/836.5	20625/846.5
LTE Band V	5MHz	QPSK	1	0	23.00	22.52	22.57	22.45
			1	12	23.00	22.58	22.67	22.76
			1	24	23.00	22.59	22.53	22.47
			12	0	22.00	21.53	21.51	21.43
			12	6	22.00	21.52	21.49	21.47
			12	11	22.00	21.57	21.44	21.57
		16QAM	25	0	22.00	21.51	21.53	21.48
			1	0	23.00	22	21.89	21.83
			1	12	23.00	22	21.77	21.63
			1	24	23.00	22.01	21.83	21.82
			12	0	21.00	20.51	20.46	20.49
			12	6	21.00	20.51	20.44	20.51
			12	11	21.00	20.53	20.39	20.52
			25	0	21.00	20.47	20.54	20.42
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20450/829	20525/836.5	20600/844
LTE Band V	10MHz	QPSK	1	0	23.00	22.68	22.71	22.67
			1	24	23.00	22.51	22.5	22.45
			1	49	23.00	22.89	22.82	22.93
			25	0	22.00	21.52	21.55	21.5
			25	12	22.00	21.56	21.54	21.54
			25	24	22.00	21.68	21.54	21.64
			50	0	22.00	21.56	21.54	21.59
		16QAM	1	0	23.00	22.02	21.89	21.5
			1	24	23.00	21.89	21.68	21.36
			1	49	23.00	22.13	22	21.76
			25	0	21.00	20.53	20.54	20.52
			25	12	21.00	20.59	20.54	20.53
			25	24	21.00	20.65	20.52	20.52
			50	0	21.00	20.57	20.64	20.53

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20775/2502.5	21100/2535	21425/2567.5
LTE Band VII	5MHz	QPSK	1	0	25.00	23.69	23.94	23.88
			1	12	25.00	23.44	23.81	24.09
			1	24	25.00	23.7	23.8	23.82
			12	0	23.00	22.63	22.72	23
			12	6	23.00	22.57	22.66	22.96
			12	11	23.00	22.65	22.66	22.88
			25	0	23.00	22.53	22.66	22.87
		16QAM	1	0	24.00	23.05	23.11	23.2
			1	12	24.00	23.01	22.9	23.11
			1	24	24.00	23.16	23.02	23.03

			12	0	22.00	21.7	21.65	21.9
			12	6	22.00	21.63	21.68	21.86
			12	11	22.00	21.56	21.66	21.78
			25	0	22.00	21.58	21.73	21.75
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20800/2505	21100/2535	21400/2565
LTE Band VII	10MHz	QPSK	1	0	25.00	24	23.84	24.12
			1	24	25.00	23.57	23.64	23.89
			1	49	25.00	23.65	23.84	23.78
			25	0	23.00	22.6	22.75	22.9
			25	12	23.00	22.54	22.65	22.89
			25	24	23.00	22.63	22.65	22.9
		16QAM	50	0	23.00	22.55	22.72	22.84
			1	0	24.00	23.29	23.15	22.95
			1	24	24.00	22.93	22.95	22.75
			1	49	24.00	23.15	23.05	22.86
			25	0	22.00	21.69	21.76	21.89
			25	12	22.00	21.39	21.69	21.84
			25	24	22.00	21.67	21.64	21.94
			50	0	22.00	21.57	21.79	21.74
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20825/2507.5	21100/2535	21375/2562.5
LTE Band VII	15MHz	QPSK	1	0	24.00	23.55	23.68	23.74
			1	37	24.00	23.42	23.39	23.56
			1	74	24.00	23.49	23.7	23.73
			36	0	23.00	22.53	22.58	22.75
			36	18	23.00	22.6	22.58	22.88
			36	37	23.00	22.59	22.5	22.74
			75	0	24.00	22.51	22.56	23.03
		16QAM	1	0	23.00	22.98	22.81	22.92
			1	37	23.00	22.81	22.72	22.89
			1	74	23.00	22.87	22.83	22.92
			36	0	22.00	21.58	21.65	21.77
			36	18	22.00	21.49	21.71	21.84
			36	37	22.00	21.78	21.67	21.66
			75	0	22.00	21.53	21.64	21.81
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		20850/2510	21100/2535	21350/2560
LTE Band VII	20MHz	QPSK	1	0	24.00	23.69	23.78	23.93
			1	49	24.00	23.5	23.61	23.67
			1	99	24.00	23.64	23.79	23.85
			50	0	23.00	22.49	22.58	22.94
			50	24	23.00	22.41	22.57	22.81
			50	49	23.00	22.72	22.57	22.64
			100	0	23.00	22.67	22.72	22.76
		16QAM	1	0	24.00	22.8	23.01	23.16
			1	49	24.00	22.71	22.76	22.92

			1	99	24.00	22.83	23	23.13
			50	0	22.00	21.59	21.62	21.93
			50	24	22.00	21.58	21.65	21.79
			50	49	22.00	21.53	21.66	21.98
			100	0	22.00	21.99	21.65	21.79

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		23017/699.7	23095/707.5	23173/715.3
LTE Band XII	1.4MHz	QPSK	1	0	23.00	21.44	22.38	22
			1	2	23.00	22.51	22.34	22.02
			1	5	23.00	22.44	22.19	21.94
			3	0	23.00	22.44	22.26	21.87
			3	1	23.00	22.45	22.29	21.86
			3	2	23.00	22.35	22.16	21.84
		16QAM	6	0	22.00	21.48	21.21	20.84
			1	0	22.00	21.35	21.5	21.22
			1	2	22.00	21.35	21.43	21.16
			1	5	22.00	21.33	21.38	21.15
			3	0	22.00	21.55	21.4	21.18
			3	1	22.00	21.61	21.44	21.23
			3	2	22.00	21.53	21.31	21.13
			6	0	21.00	20.58	20.39	19.95
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		23025/700.5	23095/707.5	23165/714.5
LTE Band XII	3MHz	QPSK	1	0	23.00	22.46	22.24	22.18
			1	7	23.00	22.39	22.23	22.09
			1	14	23.00	22.36	22.23	22.36
			8	0	22.00	21.5	21.24	20.99
			8	4	22.00	21.54	21.25	21.03
			8	7	22.00	21.38	21.2	20.87
			15	0	22.00	21.38	21.3	21.02
		16QAM	1	0	22.00	21.84	21.51	21.08
			1	7	22.00	21.73	21.43	20.89
			1	14	22.00	21.75	21.41	21.02
			8	0	21.00	20.51	20.35	20.01
			8	4	21.00	20.5	20.26	20.05
			8	7	21.00	20.36	20.21	19.96
			15	0	21.00	20.36	20.23	19.99
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		23035/701.5	23095/707.5	23155/713.5
LTE Band XII	5MHz	QPSK	1	0	23.00	22.47	22.36	22.14
			1	12	23.00	22.5	22.26	22.25
			1	24	23.00	22.38	22.24	22
			12	0	22.00	21.47	21.38	21.18
			12	6	22.00	21.46	21.28	21.09
			12	11	22.00	21.43	21.23	20.97
			25	0	22.00	21.42	21.29	21.08
		16QAM	1	0	22.00	21.95	21.64	21.43
			1	12	22.00	21.91	21.54	21.43

			1	24	22.00	21.93	21.53	21.29
			12	0	21.00	20.52	20.32	20.14
			12	6	21.00	20.46	20.27	20.15
			12	11	21.00	20.43	20.19	20.1
			25	0	21.00	20.47	20.3	20.06
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		23060/704	23095/707.5	23130/711
LTE Band XII	10MHz	QPSK	1	0	23.00	22.77	22.66	22.65
			1	24	23.00	22.39	22.69	22.27
			1	49	23.00	22.44	21.87	22.31
			25	0	22.00	21.54	21.35	21.3
			25	12	22.00	21.41	21.29	21.29
			25	24	22.00	21.33	21.2	21.1
		16QAM	50	0	22.00	21.49	21.21	21.21
			1	0	23.00	22.2	21.86	21.52
			1	24	23.00	21.72	21.72	21.03
			1	49	23.00	21.83	21.06	21.08
			25	0	21.00	20.57	20.43	20.32
			25	12	21.00	20.38	20.29	20.21
			25	24	21.00	20.35	20.21	20
			50	0	21.00	20.49	20.33	20.28

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		23755/706.5	23790/710	23825/713.5
LTE Band XVII	5MHz	QPSK	1	0	23.00	22.49	22.4	22.3
			1	12	23.00	22.38	22.18	22.4
			1	24	23.00	22.34	21.75	22.14
			12	0	22.00	21.39	21.28	21.24
			12	6	22.00	21.35	21.27	21.14
			12	11	22.00	21.35	21.19	21.12
		16QAM	25	0	22.00	21.45	21.17	21.11
			1	0	22.00	21.76	21.71	21.79
			1	12	22.00	21.69	21.6	21.55
			1	24	22.00	21.65	21.14	21.58
			12	0	21.00	20.45	20.29	20.27
			12	6	21.00	20.43	20.22	20.18
			12	11	21.00	20.27	20.1	20.13
25	0	21.00	20.43	20.17	20.09			
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		23780/709	23790/710	23800/711
LTE Band XVII	10MHz	QPSK	1	0	23.00	22.83	22.71	21.61
			1	24	23.00	22.58	22.24	22.51
			1	49	23.00	21.02	21.23	22.28
			25	0	22.00	21.46	21.43	21.59
			25	12	22.00	21.35	21.31	21.57
			25	24	22.00	21.46	21.28	21.41
			50	0	22.00	21.38	21.33	21.48
		16QAM	1	0	23.00	22.13	21.86	21.87

			1	24	23.00	21.91	21.41	21.3
			1	49	23.00	20.38	20.51	20.75
			25	0	21.00	20.45	20.44	20.54
			25	12	21.00	20.4	20.25	20.44
			25	24	21.00	20.42	20.23	20.33
			50	0	21.00	20.34	20.4	20.49

Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		40440/2575	40620/2593	41040/2635
LTE Band XLI	5MHz	QPSK	1	0	25.00	24.03	23.96	23.76
			1	12	25.00	23.85	23.85	23.67
			1	24	25.00	23.87	23.85	23.5
			12	0	23.00	22.8	22.84	22.98
			12	6	23.00	22.86	22.8	22.79
			12	11	23.00	22.84	22.7	22.63
		16QAM	25	0	23.00	22.82	22.85	22.81
			1	0	24.00	23.48	23.13	23.22
			1	12	24.00	23.4	23.19	22.93
			1	24	24.00	23.35	23.13	22.9
			12	0	22.00	21.81	21.79	21.9
			12	6	22.00	21.81	21.72	21.87
			12	11	22.00	21.76	21.66	21.91
			25	0	22.00	21.83	21.82	21.78
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		40465/2577.5	40620/2593	41015/2632.5
LTE Band XLI	10MHz	QPSK	1	0	25.00	23.81	24.08	24.25
			1	24	25.00	23.58	23.8	24.2
			1	49	25.00	23.8	23.96	23.85
			25	0	23.00	22.66	22.84	22.77
			25	12	23.00	22.66	22.87	22.7
			25	24	23.00	22.74	22.86	22.78
		16QAM	50	0	23.00	22.73	22.93	22.77
			1	0	24.00	23.43	23.24	22.99
			1	24	24.00	23.11	22.92	22.64
			1	49	24.00	23.28	22.78	22.69
			25	0	22.00	21.75	21.83	21.79
			25	12	22.00	21.74	21.86	21.81
			25	24	22.00	21.82	21.79	21.77
			50	0	22.00	21.73	21.9	21.83
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		40490/2580	40620/2593	40990/2630
LTE Band XLI	15MHz	QPSK	1	0	25.00	23.68	24.05	23.91
			1	37	25.00	23.4	23.71	23.4
			1	74	25.00	23.84	23.94	23.62
			36	0	23.00	22.73	22.86	23
			36	18	23.00	22.67	22.77	22.74
			36	37	23.00	22.78	22.87	22.9
			75	0	23.00	22.69	22.88	22.93

			1	0	24.00	23.26	23.19	23.24
			1	37	24.00	22.95	22.72	22.72
			1	74	24.00	23.42	23.19	22.64
		16QAM	36	0	22.00	21.82	21.95	21.99
			36	18	22.00	21.76	21.86	21.72
			36	37	22.00	21.83	21.96	21.8
			75	0	23.00	21.83	21.88	22.02
Band	Band Width	Modulation	RB Configuration		Tune-up	Channel/Frequency(MHz)		
			RB Size	RB Offset		40515/2582.5	40620/2593	40965/2627.5
LTE Band XLI	20MHz	QPSK	1	0	24.00	23.5	23.76	23.96
			1	49	24.00	23.6	23.65	23.82
			1	99	24.00	23.85	23.83	23.51
			50	0	23.00	22.74	22.87	22.94
			50	24	23.00	22.74	22.82	22.9
			50	49	23.00	22.85	22.92	22.98
			100	0	24.00	22.86	22.88	23.07
		16QAM	1	0	24.00	22.85	23.06	23.18
			1	49	24.00	22.88	23.04	22.99
			1	99	24.00	23.16	23.14	22.84
			50	0	23.00	21.75	21.83	22.01
			50	24	23.00	21.78	21.84	21.99
			50	49	23.00	21.91	21.92	22.02
			100	0	23.00	21.86	21.89	22.11

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