



Appendix B

E-UTRA Band 4



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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth h	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	limit (dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	23.57	20.57	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	23.72	20.72	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	23.55	20.55	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	23.69	20.69	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	23.74	20.74	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	23.68	20.68	30.00	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.68	19.68	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.50	20.50	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.68	20.68	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.51	20.51	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	23.64	20.64	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	23.68	20.68	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	23.63	20.63	30.00	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	22.62	19.62	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.48	20.48	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.50	20.50	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.61	20.61	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	23.67	20.67	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	23.60	20.60	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	23.60	20.60	30.00	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.61	19.61	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#2	21.83	18.83	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#5	21.67	18.67	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	21.68	18.68	30.00	PASS
Band4	1.4MHz	64QAM	19957	3RB#3	21.74	18.74	30.00	PASS
Band4	1.4MHz	64QAM	19957	3RB#1	21.77	18.77	30.00	PASS
Band4	1.4MHz	64QAM	19957	3RB#0	21.69	18.69	30.00	PASS



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Band4	1.4MHz	64QAM	19957	6RB#0	20.65	17.65	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	21.66	18.66	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#5	21.63	18.63	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#2	21.81	18.81	30.00	PASS
Band4	1.4MHz	64QAM	20175	3RB#3	21.66	18.66	30.00	PASS
Band4	1.4MHz	64QAM	20175	3RB#0	21.64	18.64	30.00	PASS
Band4	1.4MHz	64QAM	20175	3RB#1	21.73	18.73	30.00	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	20.55	17.55	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#2	21.68	18.68	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	21.62	18.62	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	21.56	18.56	30.00	PASS
Band4	1.4MHz	64QAM	20393	3RB#0	21.63	18.63	30.00	PASS
Band4	1.4MHz	64QAM	20393	3RB#1	21.69	18.69	30.00	PASS
Band4	1.4MHz	64QAM	20393	3RB#3	21.64	18.64	30.00	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	20.54	17.54	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.87	19.87	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.85	19.85	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.78	19.78	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	22.70	19.70	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	22.78	19.78	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	22.75	19.75	30.00	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	21.75	18.75	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.91	19.91	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	22.77	19.77	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	22.76	19.76	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	22.69	19.69	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#1	22.76	19.76	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	22.68	19.68	30.00	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.67	18.67	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.70	19.70	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.80	19.80	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.71	19.71	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	22.66	19.66	30.00	PASS



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Band4	1.4MHz	16QAM	20393	3RB#1	22.74	19.74	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	22.68	19.68	30.00	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.66	18.66	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#0	23.62	20.62	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#8	23.61	20.61	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#14	23.58	20.58	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#4	22.66	19.66	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#7	22.63	19.63	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#0	22.63	19.63	30.00	PASS
Band4	3MHz	QPSK	19965	15RB#0	22.63	19.63	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#14	23.59	20.59	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#0	23.61	20.61	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.57	20.57	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#0	22.63	19.63	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#7	22.63	19.63	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#4	22.64	19.64	30.00	PASS
Band4	3MHz	QPSK	20175	15RB#0	22.61	19.61	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.57	20.57	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.55	20.55	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.56	20.56	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#4	22.64	19.64	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#7	22.61	19.61	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#0	22.61	19.61	30.00	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.60	19.60	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#0	21.74	18.74	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#8	21.67	18.67	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#14	21.66	18.66	30.00	PASS
Band4	3MHz	64QAM	19965	8RB#0	20.62	17.62	30.00	PASS
Band4	3MHz	64QAM	19965	8RB#4	20.62	17.62	30.00	PASS
Band4	3MHz	64QAM	19965	8RB#7	20.58	17.58	30.00	PASS
Band4	3MHz	64QAM	19965	15RB#0	20.61	17.61	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#14	21.74	18.74	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#0	21.71	18.71	30.00	PASS



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Band4	3MHz	64QAM	20175	1RB#8	21.73	18.73	30.00	PASS
Band4	3MHz	64QAM	20175	8RB#7	20.57	17.57	30.00	PASS
Band4	3MHz	64QAM	20175	8RB#0	20.57	17.57	30.00	PASS
Band4	3MHz	64QAM	20175	8RB#4	20.60	17.60	30.00	PASS
Band4	3MHz	64QAM	20175	15RB#0	20.54	17.54	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#0	21.64	18.64	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#8	21.64	18.64	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#14	21.71	18.71	30.00	PASS
Band4	3MHz	64QAM	20385	8RB#7	20.54	17.54	30.00	PASS
Band4	3MHz	64QAM	20385	8RB#0	20.54	17.54	30.00	PASS
Band4	3MHz	64QAM	20385	8RB#4	20.59	17.59	30.00	PASS
Band4	3MHz	64QAM	20385	15RB#0	20.51	17.51	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#14	22.91	19.91	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#0	22.83	19.83	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#8	22.91	19.91	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#4	21.67	18.67	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#7	21.70	18.70	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#0	21.68	18.68	30.00	PASS
Band4	3MHz	16QAM	19965	15RB#0	21.61	18.61	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.87	19.87	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#8	22.85	19.85	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.83	19.83	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#0	21.68	18.68	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#7	21.66	18.66	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#4	21.70	18.70	30.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.56	18.56	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.87	19.87	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.73	19.73	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#0	22.80	19.80	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#4	21.65	18.65	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#7	21.62	18.62	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#0	21.65	18.65	30.00	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.56	18.56	30.00	PASS



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Band4	5MHz	QPSK	19975	1RB#12	23.71	20.71	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#24	23.48	20.48	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#0	23.51	20.51	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#0	22.62	19.62	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#6	22.70	19.70	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#13	22.65	19.65	30.00	PASS
Band4	5MHz	QPSK	19975	25RB#0	22.63	19.63	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.48	20.48	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.75	20.75	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.47	20.47	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#0	22.61	19.61	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#6	22.69	19.69	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#13	22.66	19.66	30.00	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.62	19.62	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.43	20.43	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.44	20.44	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.76	20.76	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#13	22.58	19.58	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#0	22.61	19.61	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#6	22.65	19.65	30.00	PASS
Band4	5MHz	QPSK	20375	25RB#0	22.60	19.60	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#0	21.60	18.60	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#24	21.64	18.64	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#12	21.83	18.83	30.00	PASS
Band4	5MHz	64QAM	19975	12RB#13	20.57	17.57	30.00	PASS
Band4	5MHz	64QAM	19975	12RB#6	20.64	17.64	30.00	PASS
Band4	5MHz	64QAM	19975	12RB#0	20.56	17.56	30.00	PASS
Band4	5MHz	64QAM	19975	25RB#0	20.58	17.58	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#0	21.57	18.57	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#12	21.83	18.83	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#24	21.58	18.58	30.00	PASS
Band4	5MHz	64QAM	20175	12RB#6	20.62	17.62	30.00	PASS
Band4	5MHz	64QAM	20175	12RB#13	20.55	17.55	30.00	PASS



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Band4	5MHz	64QAM	20175	12RB#0	20.53	17.53	30.00	PASS
Band4	5MHz	64QAM	20175	25RB#0	20.56	17.56	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#12	21.80	18.80	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#24	21.52	18.52	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#0	21.51	18.51	30.00	PASS
Band4	5MHz	64QAM	20375	12RB#0	20.52	17.52	30.00	PASS
Band4	5MHz	64QAM	20375	12RB#6	20.56	17.56	30.00	PASS
Band4	5MHz	64QAM	20375	12RB#13	20.53	17.53	30.00	PASS
Band4	5MHz	64QAM	20375	25RB#0	20.53	17.53	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#24	22.72	19.72	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#0	22.76	19.76	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#12	22.99	19.99	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#0	21.62	18.62	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#6	21.71	18.71	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#13	21.65	18.65	30.00	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.66	18.66	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#12	23.04	20.04	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.77	19.77	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.76	19.76	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#6	21.69	18.69	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#0	21.60	18.60	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#13	21.61	18.61	30.00	PASS
Band4	5MHz	16QAM	20175	25RB#0	21.60	18.60	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#0	22.68	19.68	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.67	19.67	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.88	19.88	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#13	21.59	18.59	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#0	21.59	18.59	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#6	21.64	18.64	30.00	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.59	18.59	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.73	20.73	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#49	23.57	20.57	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#0	23.60	20.60	30.00	PASS



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Band4	10MHz	QPSK	20000	25RB#0	22.67	19.67	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#12	22.69	19.69	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#25	22.72	19.72	30.00	PASS
Band4	10MHz	QPSK	20000	50RB#0	22.67	19.67	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.71	20.71	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#49	23.56	20.56	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.55	20.55	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#0	22.62	19.62	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#12	22.66	19.66	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#25	22.70	19.70	30.00	PASS
Band4	10MHz	QPSK	20175	50RB#0	22.67	19.67	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#0	23.54	20.54	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.54	20.54	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.66	20.66	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#12	22.66	19.66	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#0	22.68	19.68	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#25	22.61	19.61	30.00	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.66	19.66	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#0	21.69	18.69	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#24	21.85	18.85	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#49	21.65	18.65	30.00	PASS
Band4	10MHz	64QAM	20000	25RB#12	20.62	17.62	30.00	PASS
Band4	10MHz	64QAM	20000	25RB#25	20.66	17.66	30.00	PASS
Band4	10MHz	64QAM	20000	25RB#0	20.61	17.61	30.00	PASS
Band4	10MHz	64QAM	20000	50RB#0	20.60	17.60	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#24	21.79	18.79	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#0	21.61	18.61	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#49	21.64	18.64	30.00	PASS
Band4	10MHz	64QAM	20175	25RB#12	20.60	17.60	30.00	PASS
Band4	10MHz	64QAM	20175	25RB#25	20.62	17.62	30.00	PASS
Band4	10MHz	64QAM	20175	25RB#0	20.60	17.60	30.00	PASS
Band4	10MHz	64QAM	20175	50RB#0	20.60	17.60	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#24	21.73	18.73	30.00	PASS



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Band4	10MHz	64QAM	20350	1RB#0	21.63	18.63	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#49	21.59	18.59	30.00	PASS
Band4	10MHz	64QAM	20350	25RB#0	20.63	17.63	30.00	PASS
Band4	10MHz	64QAM	20350	25RB#12	20.59	17.59	30.00	PASS
Band4	10MHz	64QAM	20350	25RB#25	20.54	17.54	30.00	PASS
Band4	10MHz	64QAM	20350	50RB#0	20.60	17.60	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#0	22.77	19.77	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.94	19.94	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#49	22.80	19.80	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#0	21.65	18.65	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#12	21.70	18.70	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#25	21.72	18.72	30.00	PASS
Band4	10MHz	16QAM	20000	50RB#0	21.66	18.66	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#49	22.72	19.72	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#24	23.01	20.01	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#0	22.86	19.86	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#0	21.61	18.61	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#12	21.64	18.64	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#25	21.70	18.70	30.00	PASS
Band4	10MHz	16QAM	20175	50RB#0	21.64	18.64	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.78	19.78	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.83	19.83	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.79	19.79	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#0	21.64	18.64	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#12	21.63	18.63	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#25	21.60	18.60	30.00	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.63	18.63	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.62	20.62	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.52	20.52	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.56	20.56	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#0	22.64	19.64	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#39	22.68	19.68	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#18	22.70	19.70	30.00	PASS



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Band4	15MHz	QPSK	20025	75RB#0	22.67	19.67	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#38	23.61	20.61	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#74	23.48	20.48	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.51	20.51	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#18	22.65	19.65	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#39	22.64	19.64	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#0	22.62	19.62	30.00	PASS
Band4	15MHz	QPSK	20175	75RB#0	22.62	19.62	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.49	20.49	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.44	20.44	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.57	20.57	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#0	22.62	19.62	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#39	22.59	19.59	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#18	22.63	19.63	30.00	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.60	19.60	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#0	21.56	18.56	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#38	21.74	18.74	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#74	21.59	18.59	30.00	PASS
Band4	15MHz	64QAM	20025	36RB#0	20.56	17.56	30.00	PASS
Band4	15MHz	64QAM	20025	36RB#18	20.62	17.62	30.00	PASS
Band4	15MHz	64QAM	20025	36RB#39	20.61	17.61	30.00	PASS
Band4	15MHz	64QAM	20025	75RB#0	20.59	17.59	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#74	21.54	18.54	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#0	21.60	18.60	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#38	21.71	18.71	30.00	PASS
Band4	15MHz	64QAM	20175	36RB#18	20.54	17.54	30.00	PASS
Band4	15MHz	64QAM	20175	36RB#0	20.51	17.51	30.00	PASS
Band4	15MHz	64QAM	20175	36RB#39	20.53	17.53	30.00	PASS
Band4	15MHz	64QAM	20175	75RB#0	20.54	17.54	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#0	21.60	18.60	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#38	21.64	18.64	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#74	21.53	18.53	30.00	PASS
Band4	15MHz	64QAM	20325	36RB#18	20.54	17.54	30.00	PASS



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Band4	15MHz	64QAM	20325	36RB#0	20.51	17.51	30.00	PASS
Band4	15MHz	64QAM	20325	36RB#39	20.50	17.50	30.00	PASS
Band4	15MHz	64QAM	20325	75RB#0	20.50	17.50	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#0	22.90	19.90	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.78	19.78	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#74	22.73	19.73	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#0	21.60	18.60	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#18	21.67	18.67	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#39	21.64	18.64	30.00	PASS
Band4	15MHz	16QAM	20025	75RB#0	21.66	18.66	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.66	19.66	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.88	19.88	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.75	19.75	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#0	21.54	18.54	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#18	21.62	18.62	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#39	21.60	18.60	30.00	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.63	18.63	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.71	19.71	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.83	19.83	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.67	19.67	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#39	21.53	18.53	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#0	21.58	18.58	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#18	21.59	18.59	30.00	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.59	18.59	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.68	20.68	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#99	23.45	20.45	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#0	23.48	20.48	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#0	22.60	19.60	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#25	22.67	19.67	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#50	22.68	19.68	30.00	PASS
Band4	20MHz	QPSK	20050	100RB#0	22.64	19.64	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.44	20.44	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.72	20.72	30.00	PASS



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Band4	20MHz	QPSK	20175	1RB#99	23.42	20.42	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#25	22.65	19.65	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#0	22.55	19.55	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#50	22.62	19.62	30.00	PASS
Band4	20MHz	QPSK	20175	100RB#0	22.59	19.59	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.40	20.40	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.65	20.65	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#0	23.45	20.45	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#0	22.63	19.63	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#25	22.65	19.65	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#50	22.54	19.54	30.00	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.58	19.58	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#0	21.61	18.61	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#49	21.80	18.80	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#99	21.54	18.54	30.00	PASS
Band4	20MHz	64QAM	20050	50RB#25	20.61	17.61	30.00	PASS
Band4	20MHz	64QAM	20050	50RB#50	20.61	17.61	30.00	PASS
Band4	20MHz	64QAM	20050	50RB#0	20.54	17.54	30.00	PASS
Band4	20MHz	64QAM	20050	100RB#0	20.57	17.57	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#49	21.72	18.72	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#99	21.44	18.44	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#0	21.53	18.53	30.00	PASS
Band4	20MHz	64QAM	20175	50RB#25	20.57	17.57	30.00	PASS
Band4	20MHz	64QAM	20175	50RB#0	20.50	17.50	30.00	PASS
Band4	20MHz	64QAM	20175	50RB#50	20.57	17.57	30.00	PASS
Band4	20MHz	64QAM	20175	100RB#0	20.51	17.51	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#0	21.45	18.45	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#99	21.47	18.47	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#49	21.69	18.69	30.00	PASS
Band4	20MHz	64QAM	20300	50RB#50	20.45	17.45	30.00	PASS
Band4	20MHz	64QAM	20300	50RB#25	20.57	17.57	30.00	PASS
Band4	20MHz	64QAM	20300	50RB#0	20.55	17.55	30.00	PASS
Band4	20MHz	64QAM	20300	100RB#0	20.49	17.49	30.00	PASS



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Band4	20MHz	16QAM	20050	1RB#49	22.93	19.93	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#99	22.66	19.66	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#0	22.74	19.74	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#25	21.66	18.66	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#50	21.65	18.65	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#0	21.59	18.59	30.00	PASS
Band4	20MHz	16QAM	20050	100RB#0	21.66	18.66	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.72	19.72	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.86	19.86	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#99	22.61	19.61	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#25	21.63	18.63	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#0	21.57	18.57	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#50	21.61	18.61	30.00	PASS
Band4	20MHz	16QAM	20175	100RB#0	21.58	18.58	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#0	22.65	19.65	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#99	22.55	19.55	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.86	19.86	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#0	21.59	18.59	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#50	21.52	18.52	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#25	21.63	18.63	30.00	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.54	18.54	30.00	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]



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2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	5.36	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.13	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.19	13	PASS
Band4	20MHz	64QAM	20050	100RB#0	6.41	13	PASS
Band4	20MHz	64QAM	20175	100RB#0	6.29	13	PASS
Band4	20MHz	64QAM	20300	100RB#0	6.35	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	6.12	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	5.94	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	6.00	13	PASS



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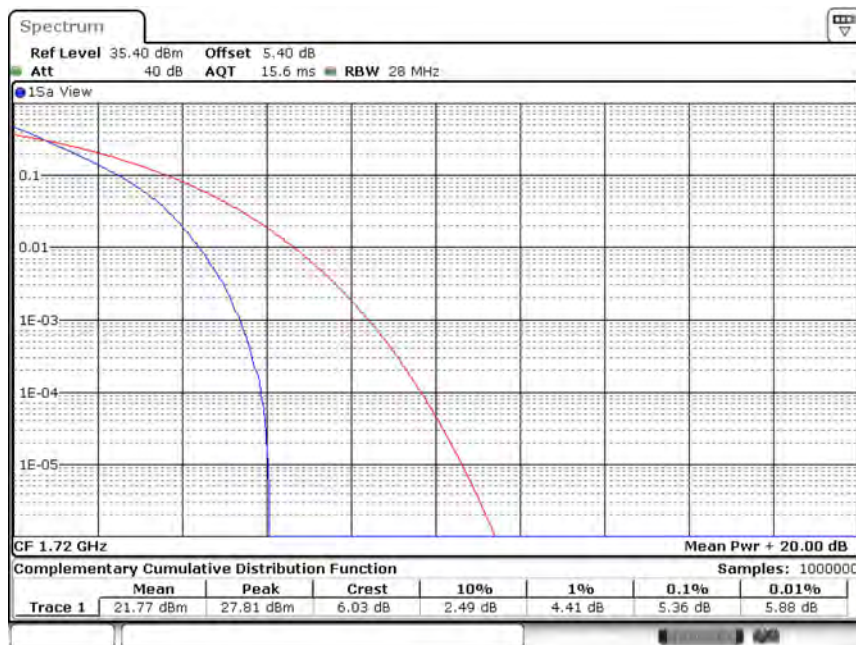
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2.2. Test Plots

Band4-20MHz-QPSK-20050-100RB#0



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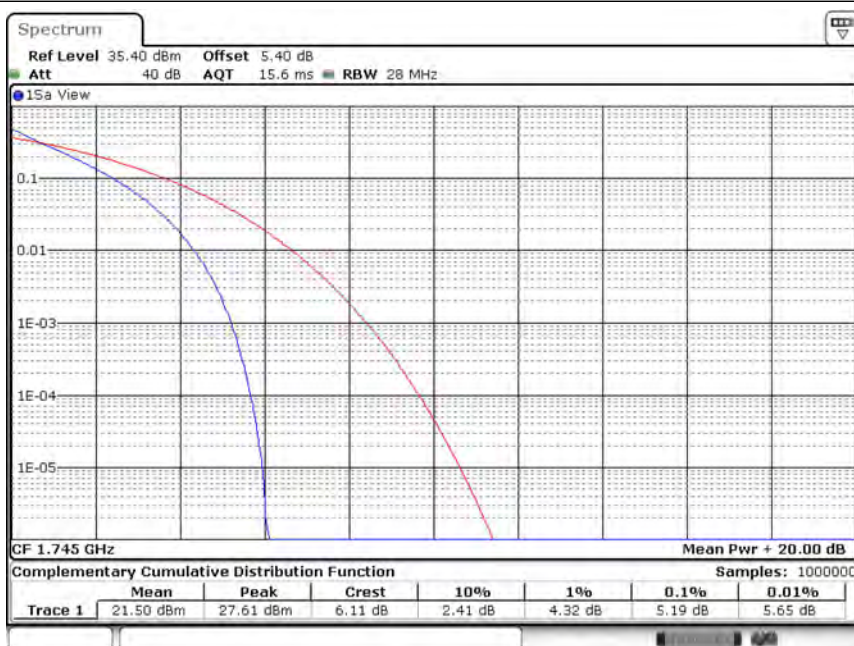
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Band4-20MHz-QPSK-20175-100RB#0



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Band4-20MHz-QPSK-20300-100RB#0



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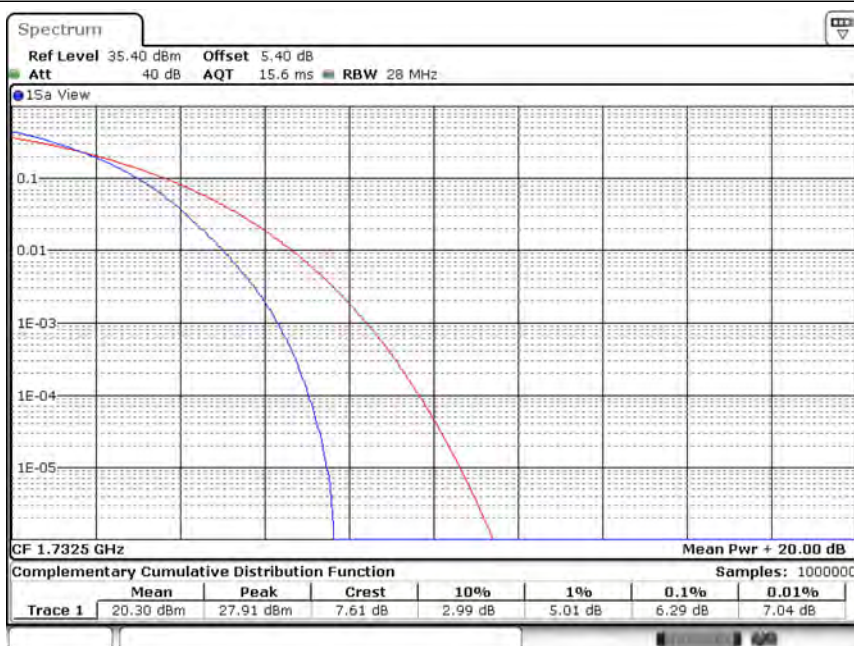
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Band4-20MHz-64QAM-20050-100RB#0



Date: 24 JUN 2020 02:14:04

Band4-20MHz-64QAM-20175-100RB#0



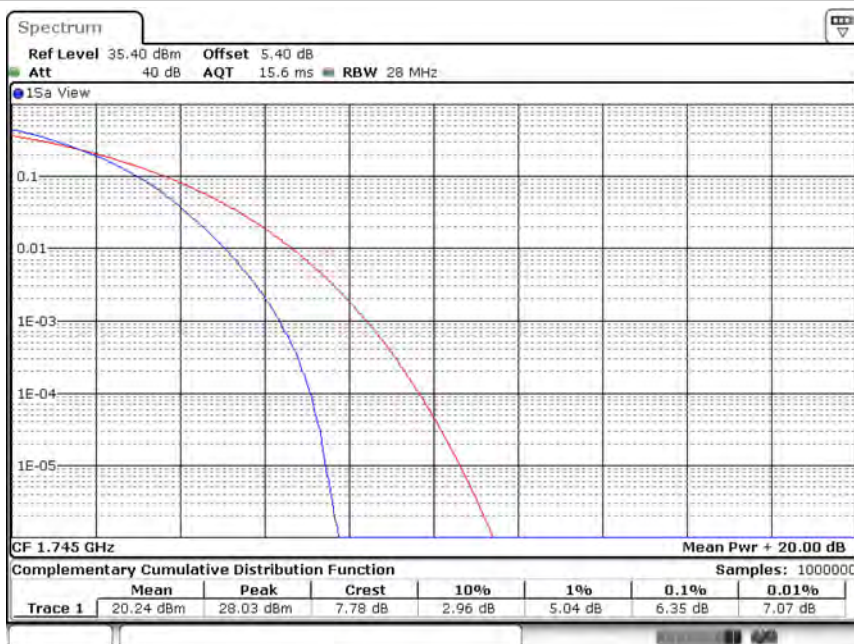
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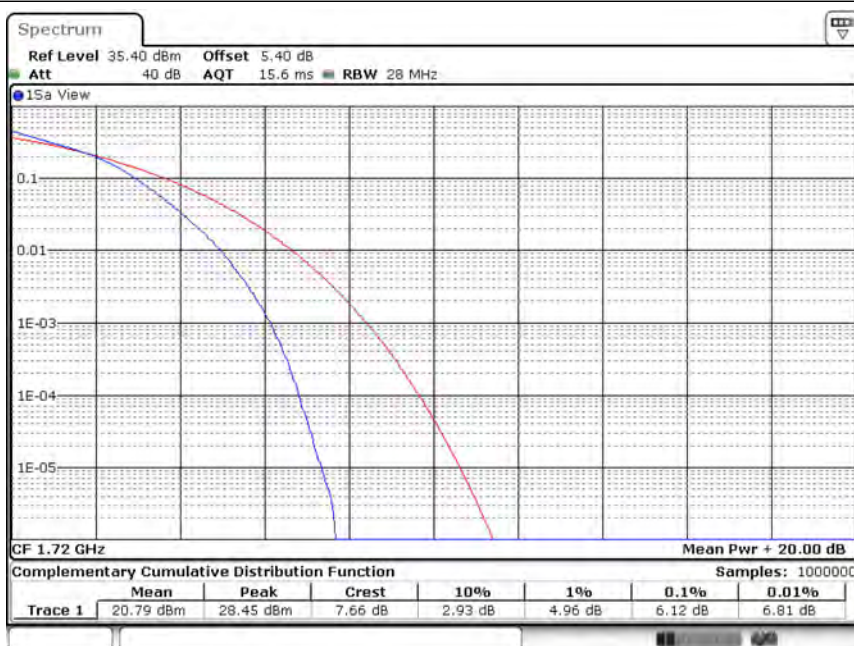
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Band4-20MHz-64QAM-20300-100RB#0



Date: 24 JUN 2020 02:14:27

Band4-20MHz-16QAM-20050-100RB#0



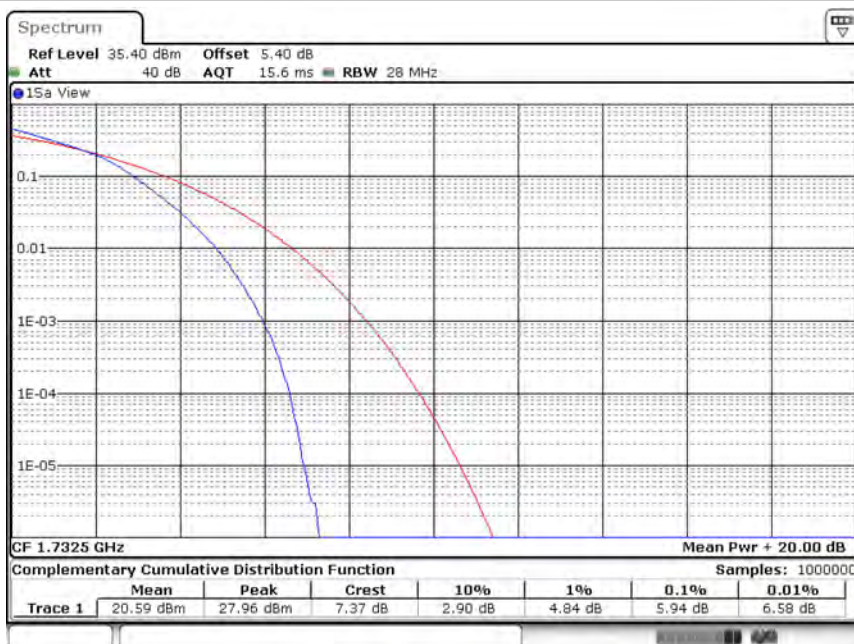
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Band4-20MHz-16QAM-20175-100RB#0



Date: 23 JUN 2020 11:53:04

Band4-20MHz-16QAM-20300-100RB#0



Date: 23 JUN 2020 11:53:27



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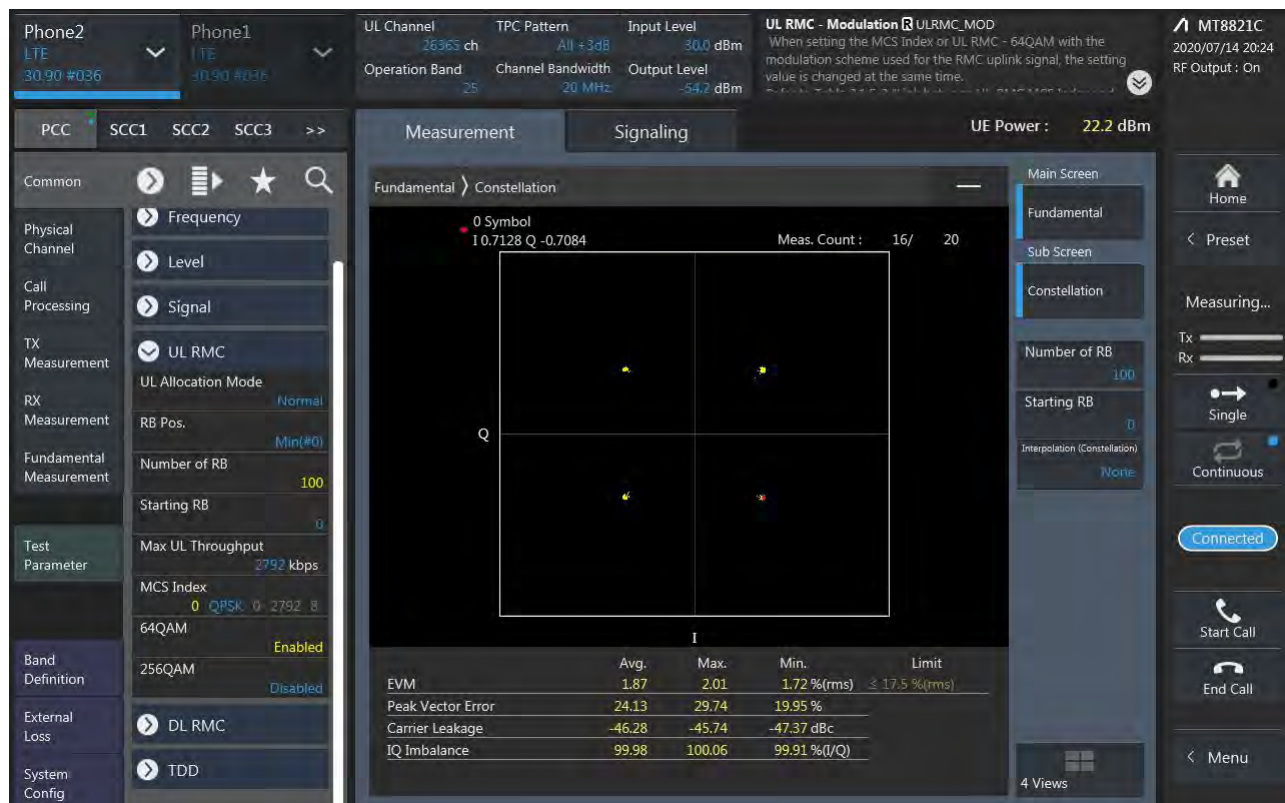
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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

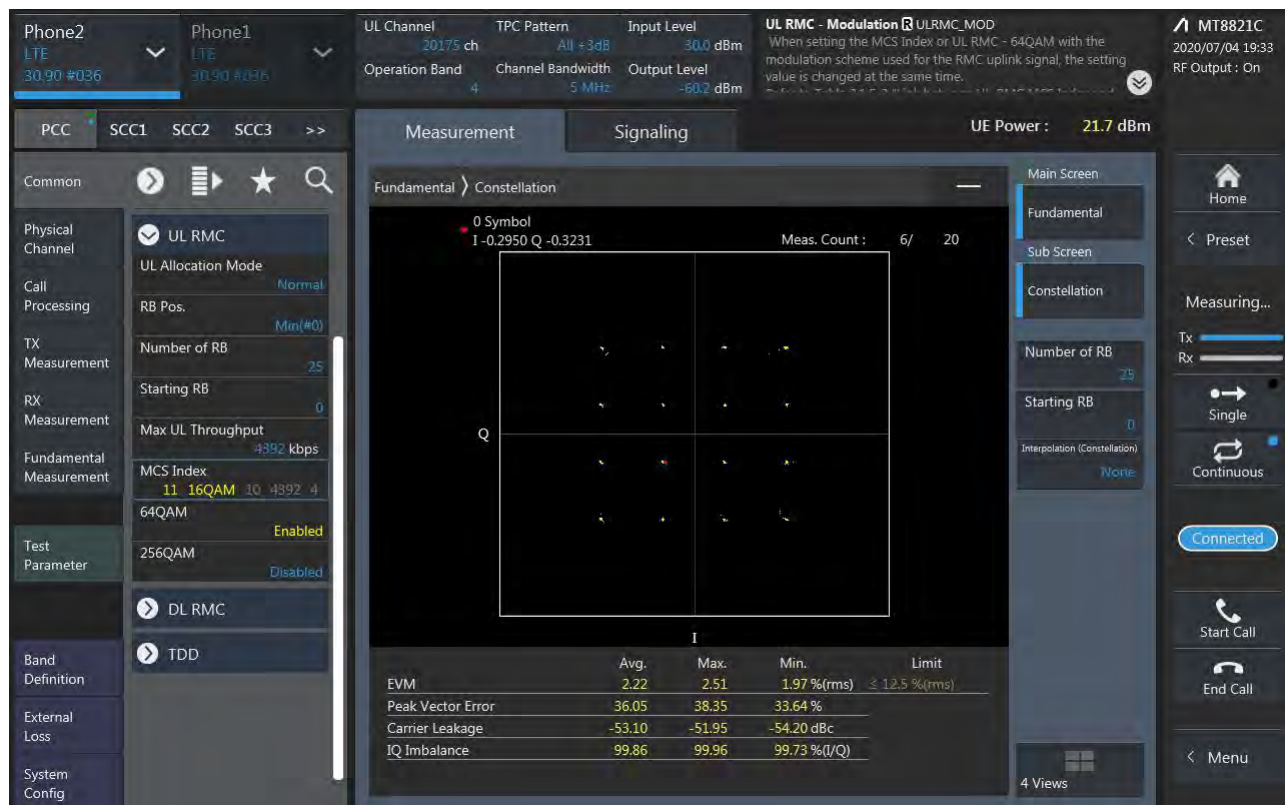
3.1.1. Test Channel = MCH





3.2. Test Mode = LTE /TM2 20MHz

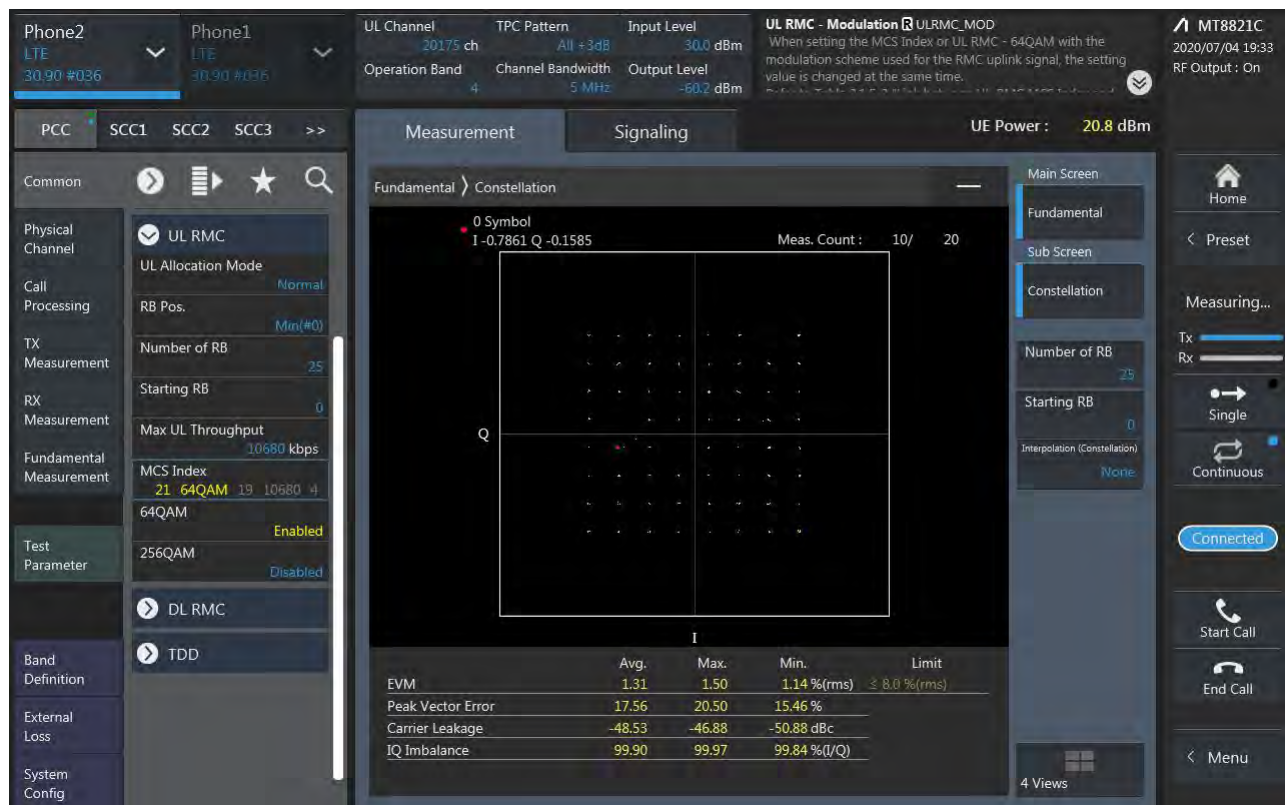
3.2.1. Test Channel = MCH





3.3. Test Mode = LTE /TM3 20MHz

3.3.1. Test Channel = MCH





4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.088	1.293	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.085	1.281	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.088	1.287	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	1.094	1.275	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.094	1.257	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	1.094	1.278	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.088	1.296	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.097	1.290	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.088	1.293	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.691	2.916	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.691	2.928	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.691	2.916	PASS
Band4	3MHz	64QAM	19965	15RB#0	2.685	2.916	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.679	2.910	PASS
Band4	3MHz	64QAM	20385	15RB#0	2.673	2.904	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.673	2.904	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.679	2.904	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.673	2.898	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.466	4.840	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.466	4.830	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.476	4.790	PASS
Band4	5MHz	64QAM	19975	25RB#0	4.466	4.830	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.466	4.830	PASS
Band4	5MHz	64QAM	20375	25RB#0	4.476	4.830	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.486	4.860	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.476	4.860	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.476	4.860	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.931	9.620	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.931	9.600	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.931	9.560	PASS



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Band4	10MHz	64QAM	20000	50RB#0	8.931	9.600	PASS
Band4	10MHz	64QAM	20175	50RB#0	8.931	9.560	PASS
Band4	10MHz	64QAM	20350	50RB#0	8.911	9.560	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.931	9.620	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.911	9.660	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.951	9.620	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.457	14.610	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.487	14.610	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.457	14.730	PASS
Band4	15MHz	64QAM	20025	75RB#0	13.457	14.640	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.457	14.670	PASS
Band4	15MHz	64QAM	20325	75RB#0	13.427	14.790	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.457	14.640	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.457	14.490	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.457	14.730	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.902	19.320	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.822	19.320	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.902	19.400	PASS
Band4	20MHz	64QAM	20050	100RB#0	17.862	19.200	PASS
Band4	20MHz	64QAM	20175	100RB#0	17.862	19.240	PASS
Band4	20MHz	64QAM	20300	100RB#0	17.902	19.280	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.862	19.320	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.862	19.240	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.862	19.280	PASS



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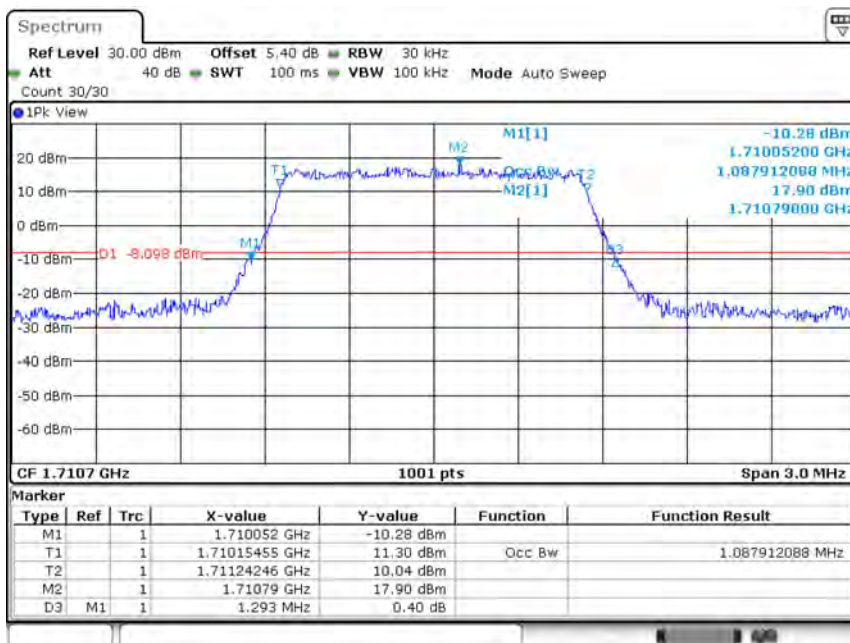
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4.2. Test Plots

Band4-1.4MHz-QPSK-19957-6RB#0-1.088



Date: 23 JUN 2020 11:22:37

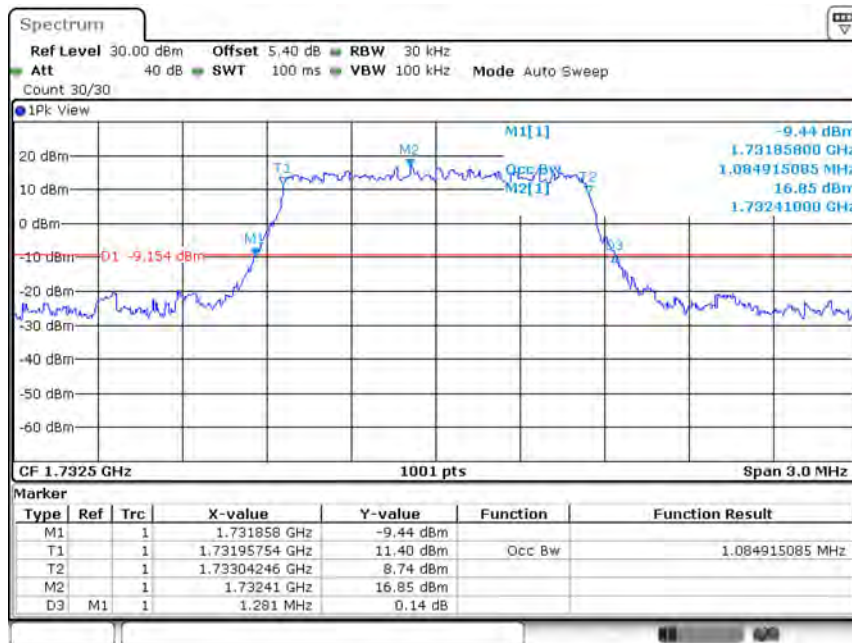


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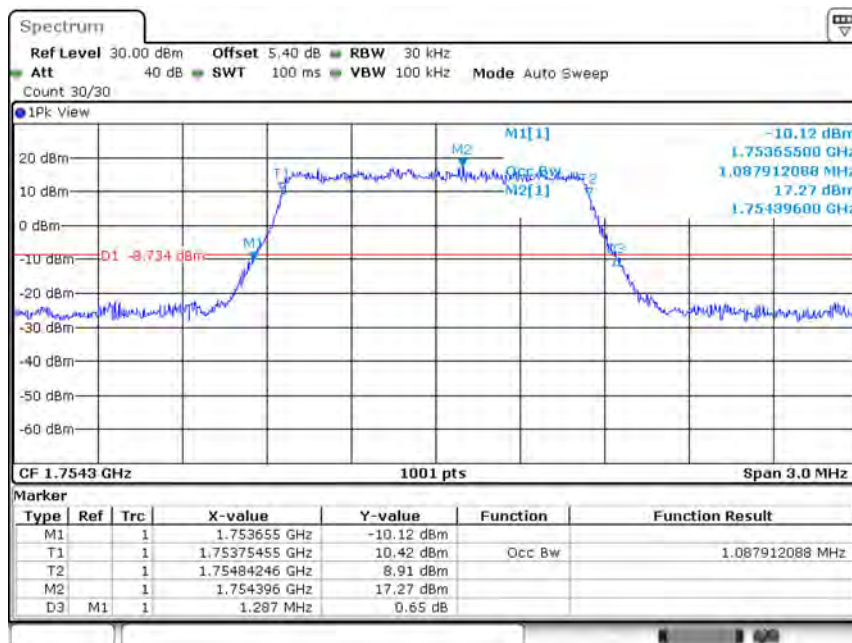
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Band4-1.4MHz-QPSK-20175-6RB#0-1.085



Date: 23 JUN 2020 11:23:03

Band4-1.4MHz-QPSK-20393-6RB#0-1.088



Date: 23 JUN 2020 11:23:29

Band4-1.4MHz-64QAM-19957-6RB#0-1.094



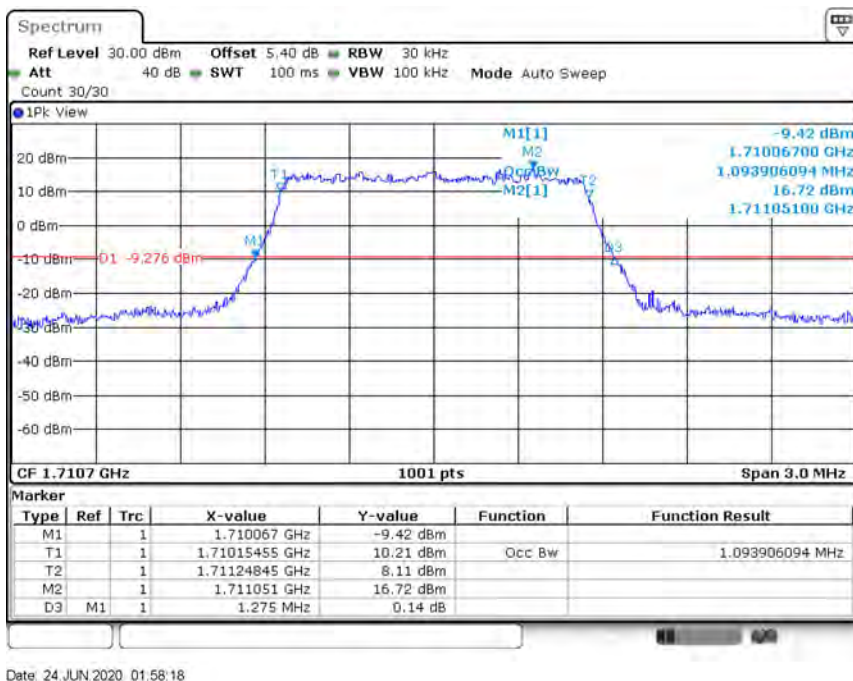
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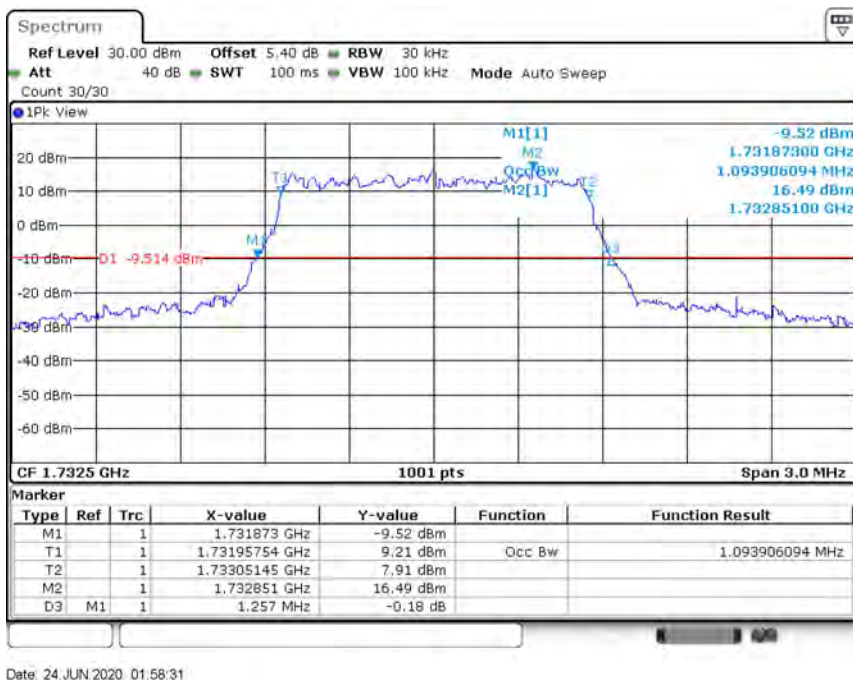
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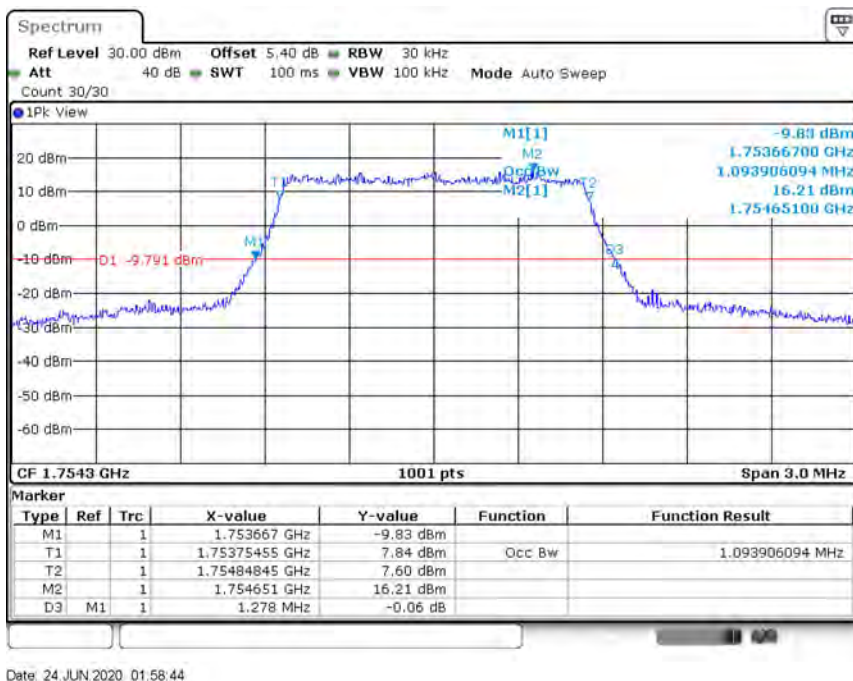


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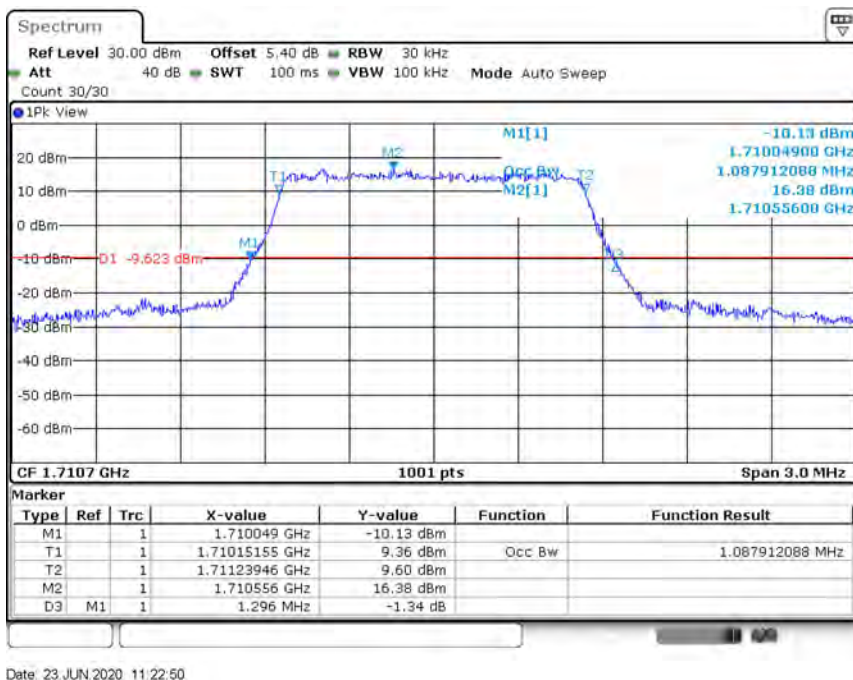


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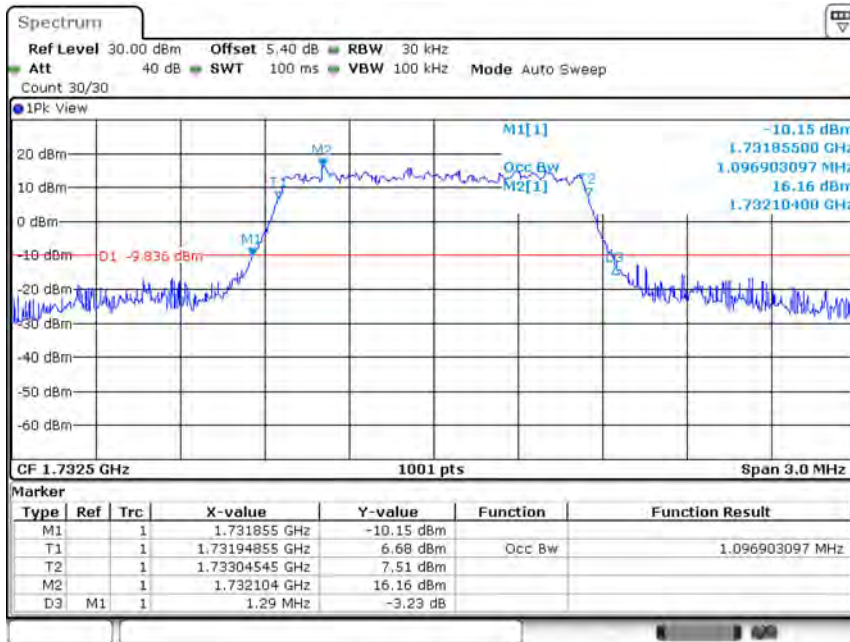


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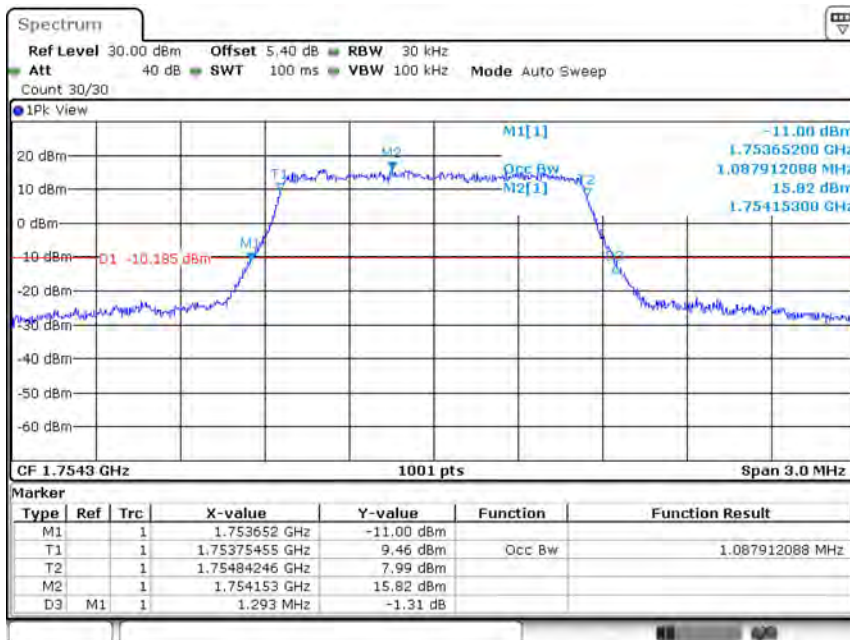
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Date: 23 JUN 2020 11:23:16

Band4-1.4MHz-16QAM-20393-6RB#0-1.088



Date: 23 JUN 2020 11:23:41

Band4-3MHz-QPSK-19965-15RB#0-2.691



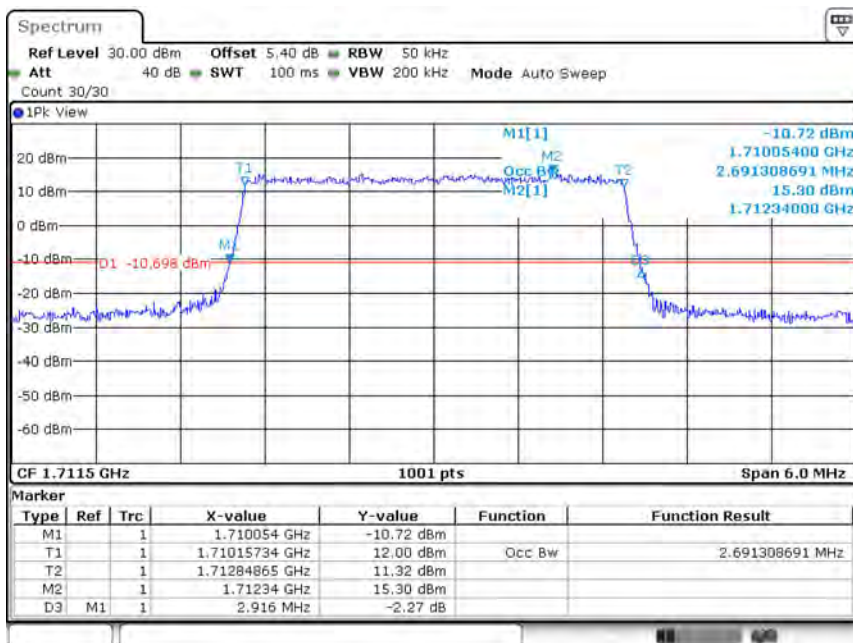
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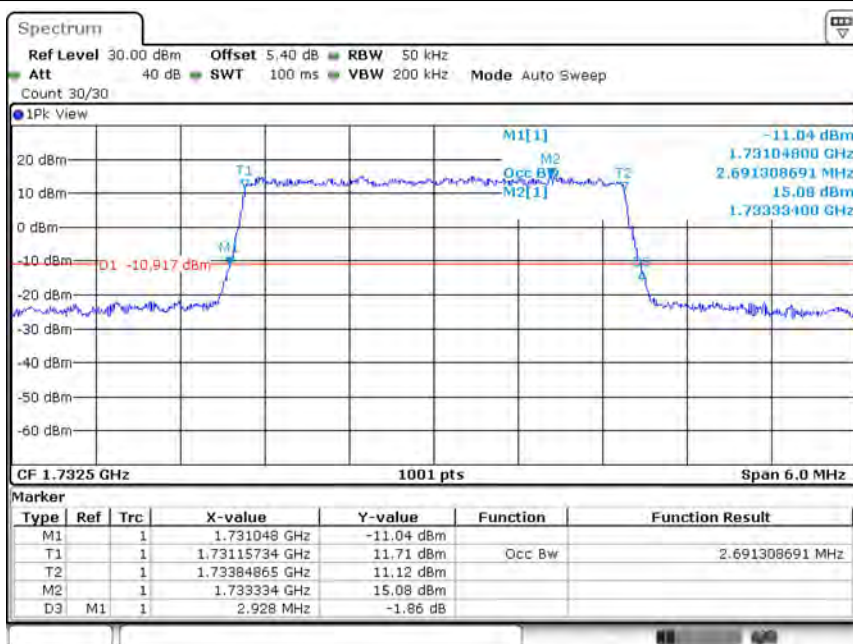
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Band4-3MHz-QPSK-20175-15RB#0-2.691



Date: 23 JUN 2020 11:24:25

Band4-3MHz-QPSK-20385-15RB#0-2.691

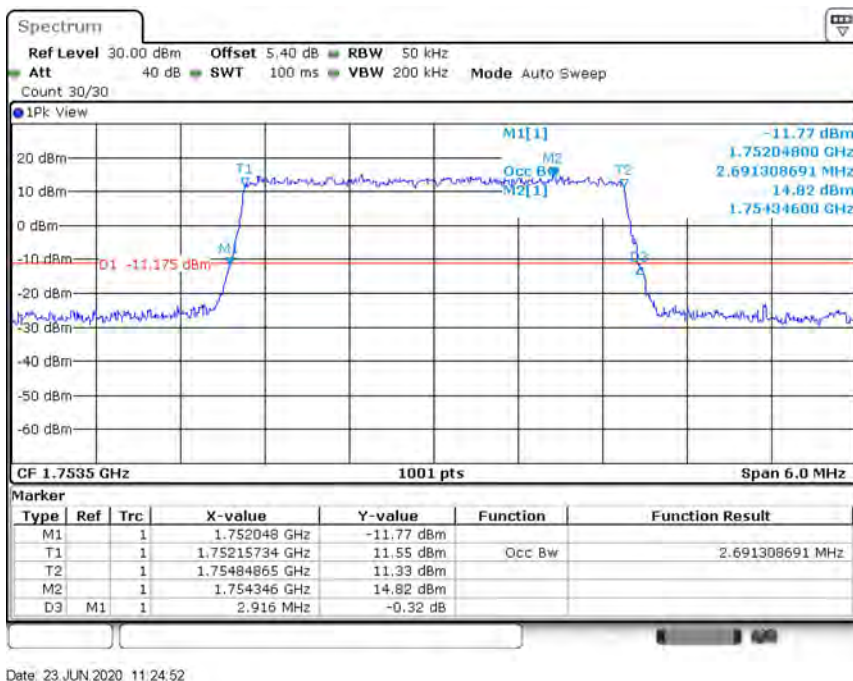


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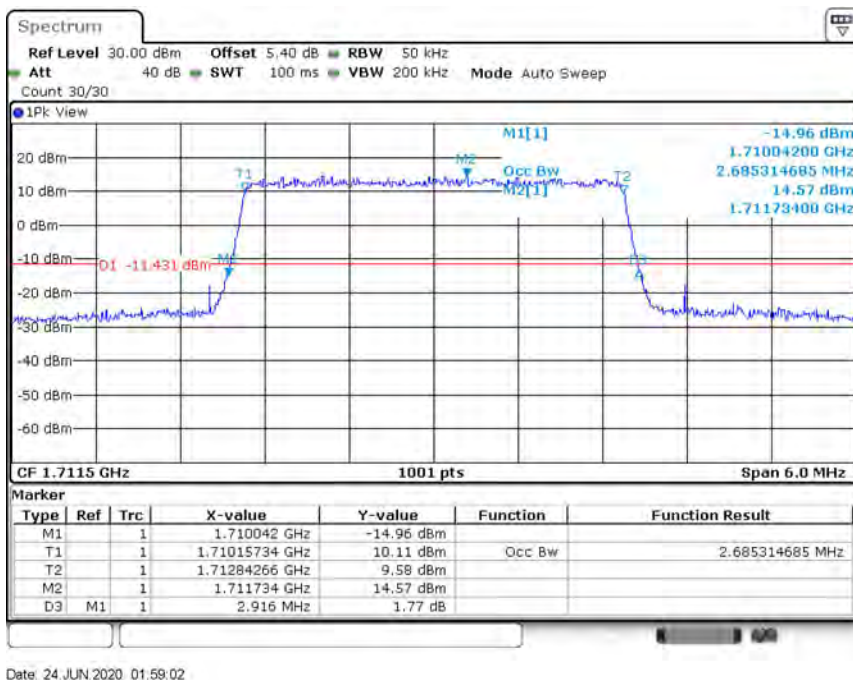
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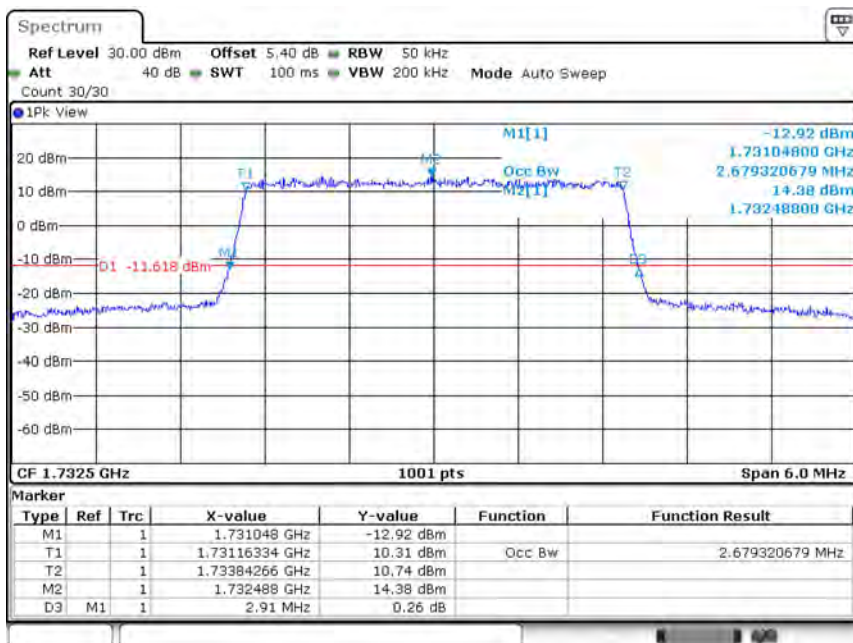


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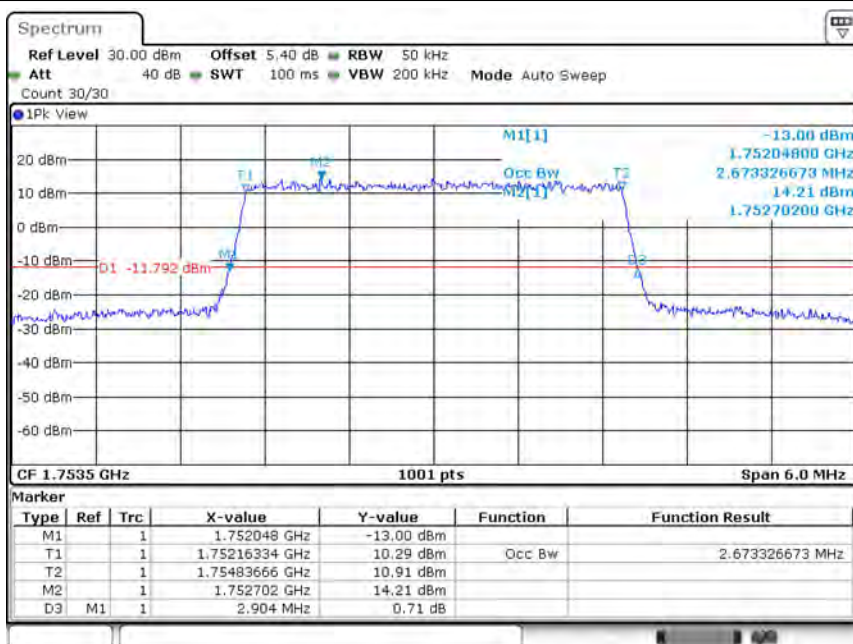
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Date: 24 JUN 2020 01:59:15

Band4-3MHz-64QAM-20385-15RB#0-2.673



Date: 24 JUN 2020 01:59:29

Band4-3MHz-16QAM-19965-15RB#0-2.673

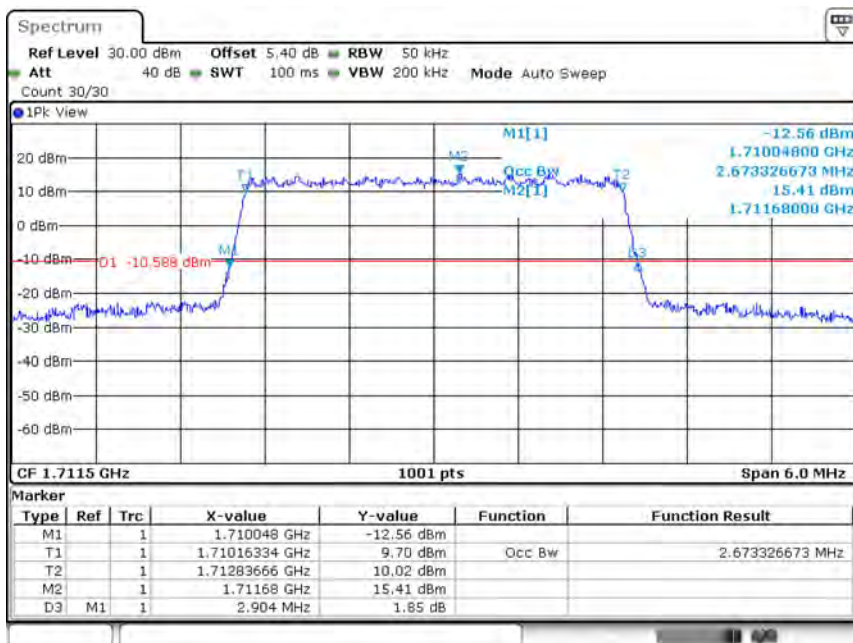


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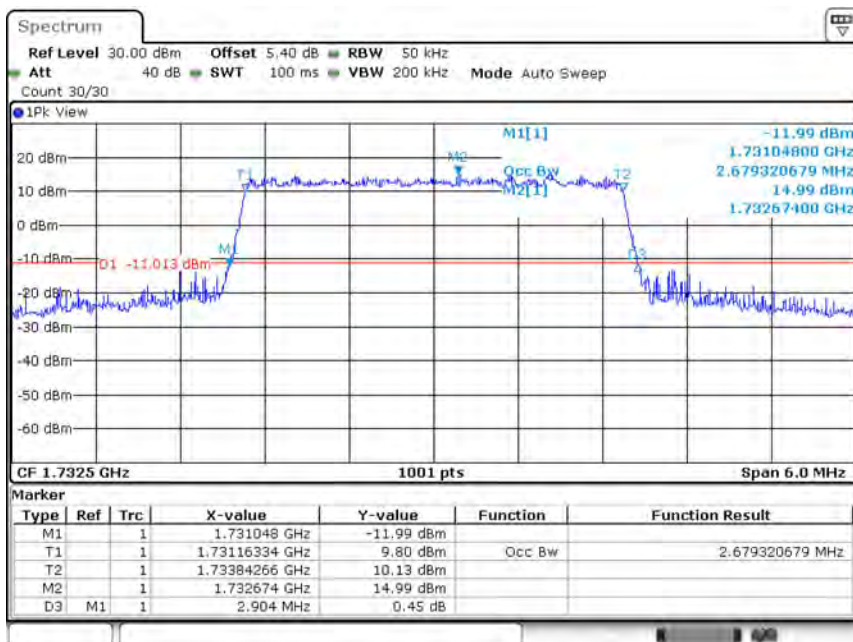
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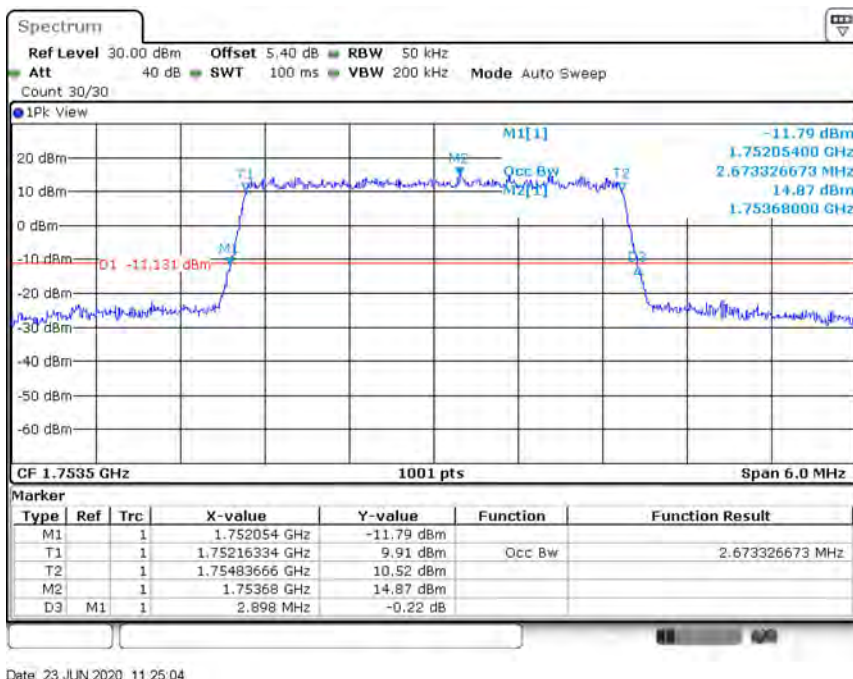
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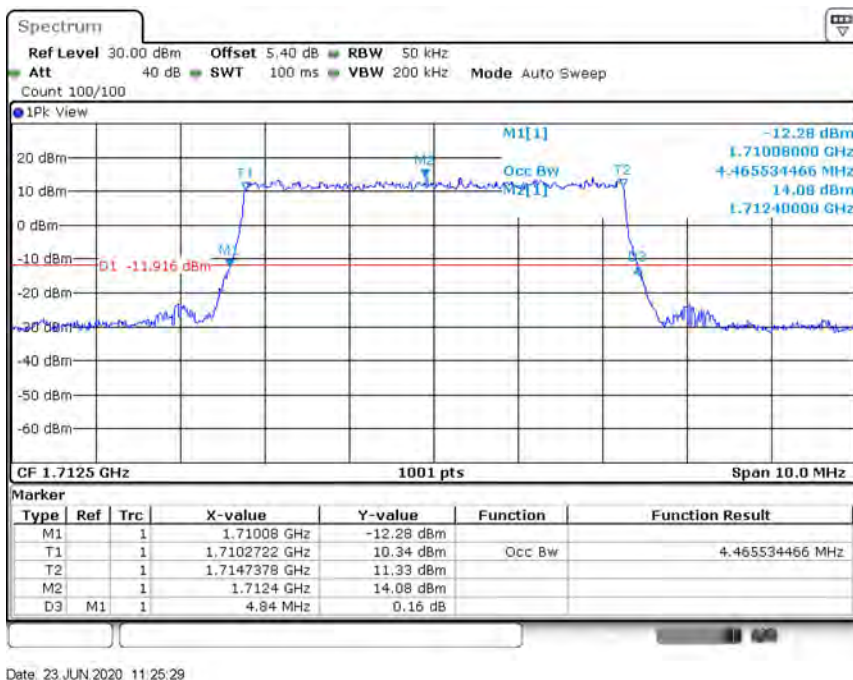
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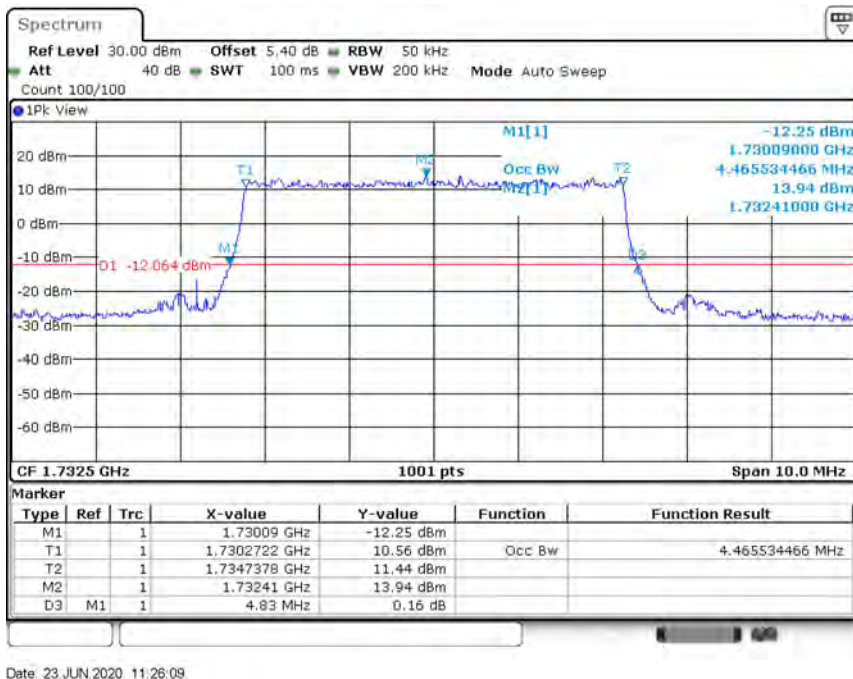


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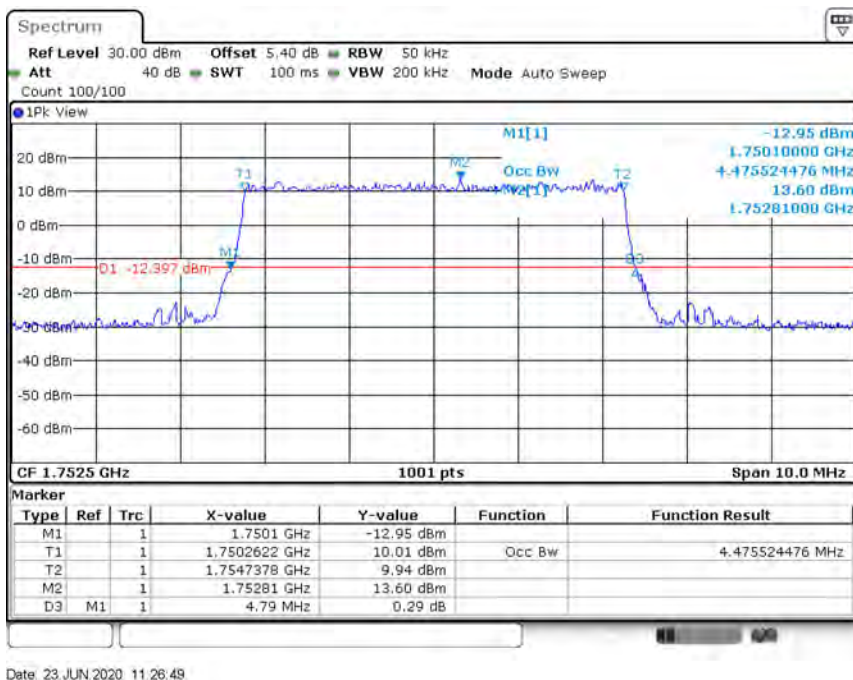


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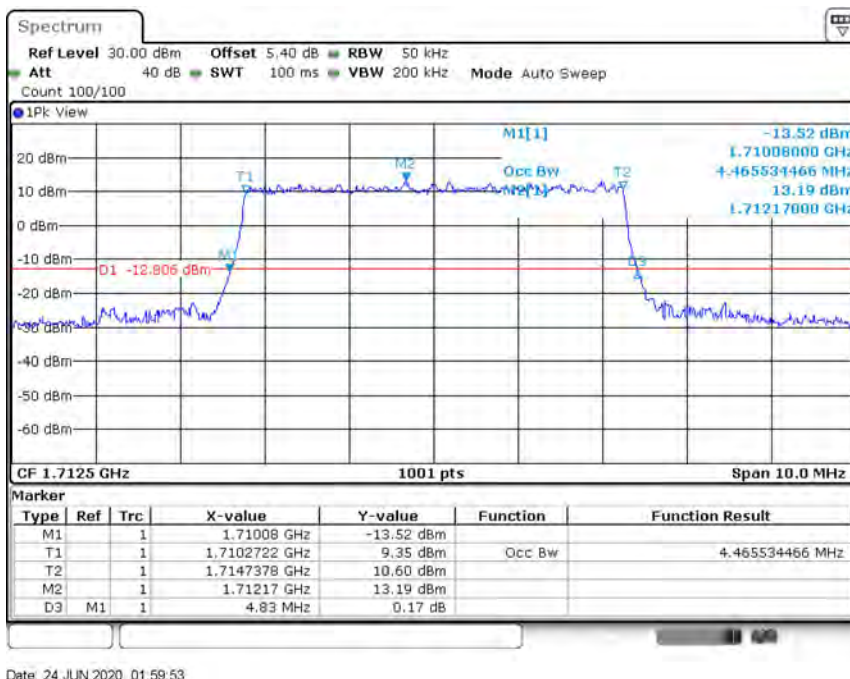


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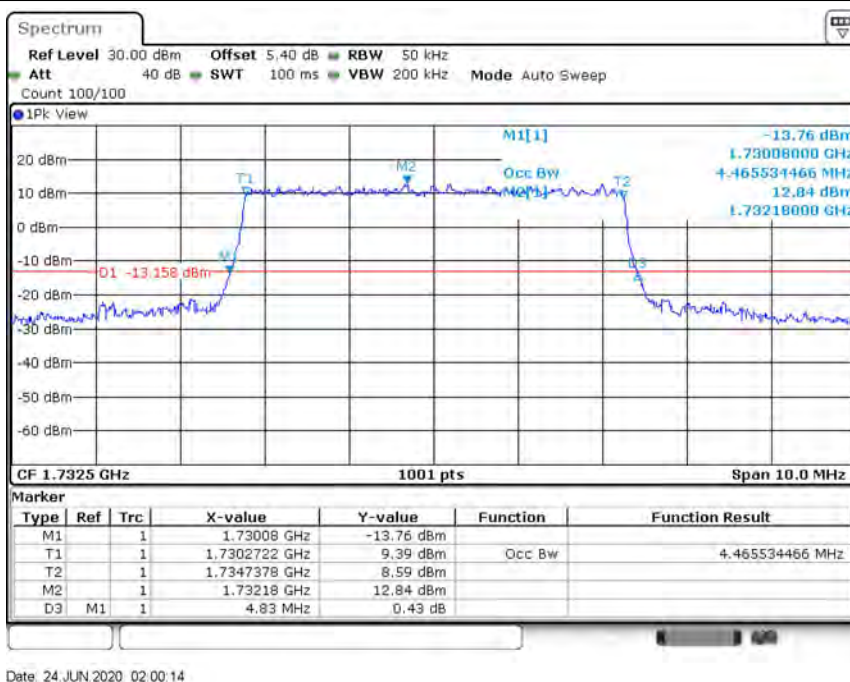


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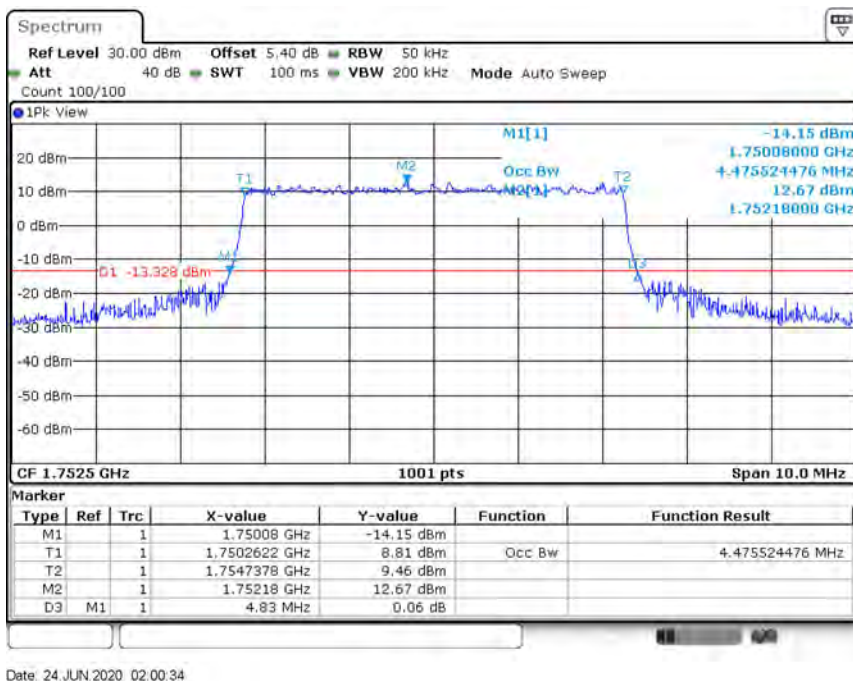


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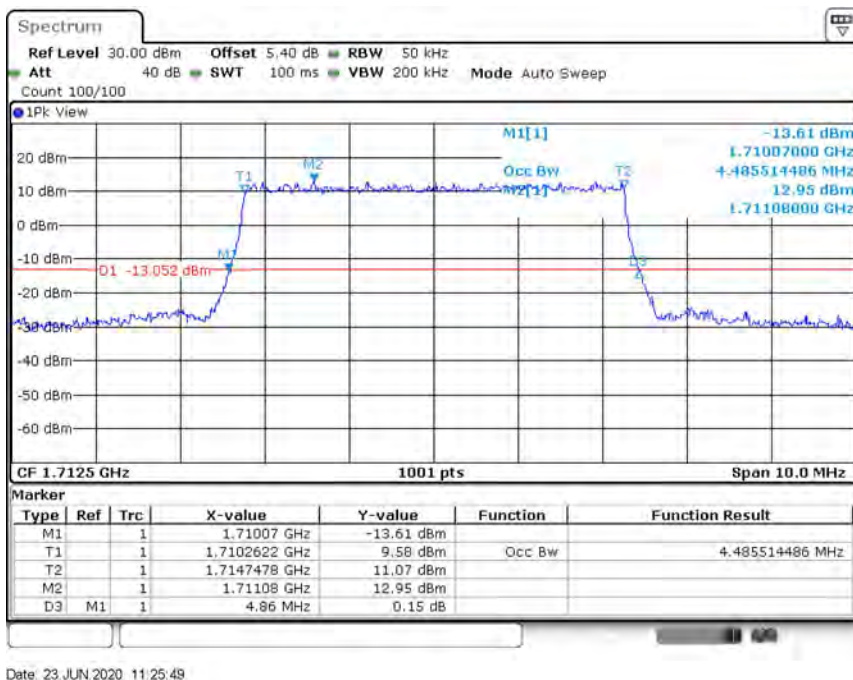


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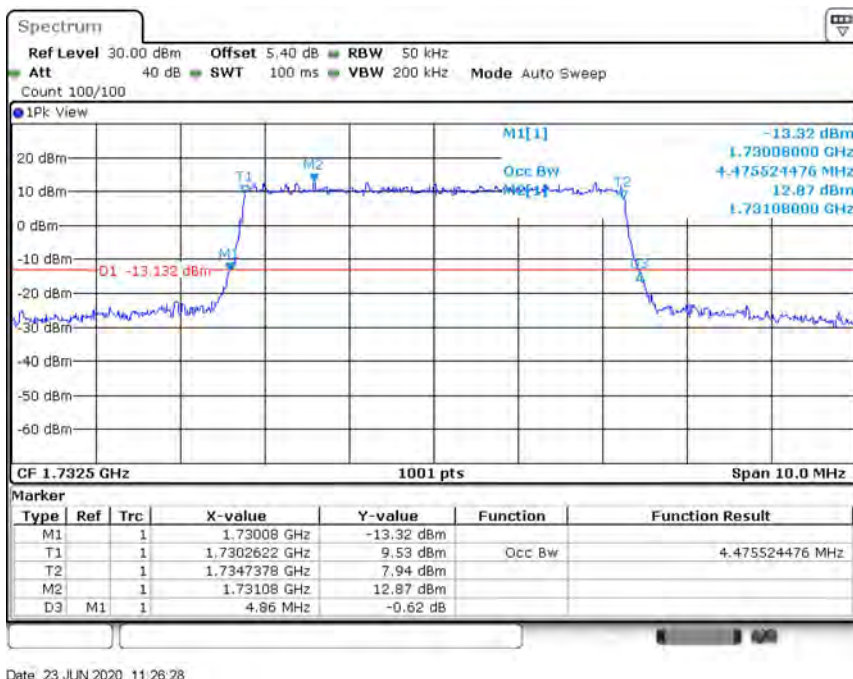


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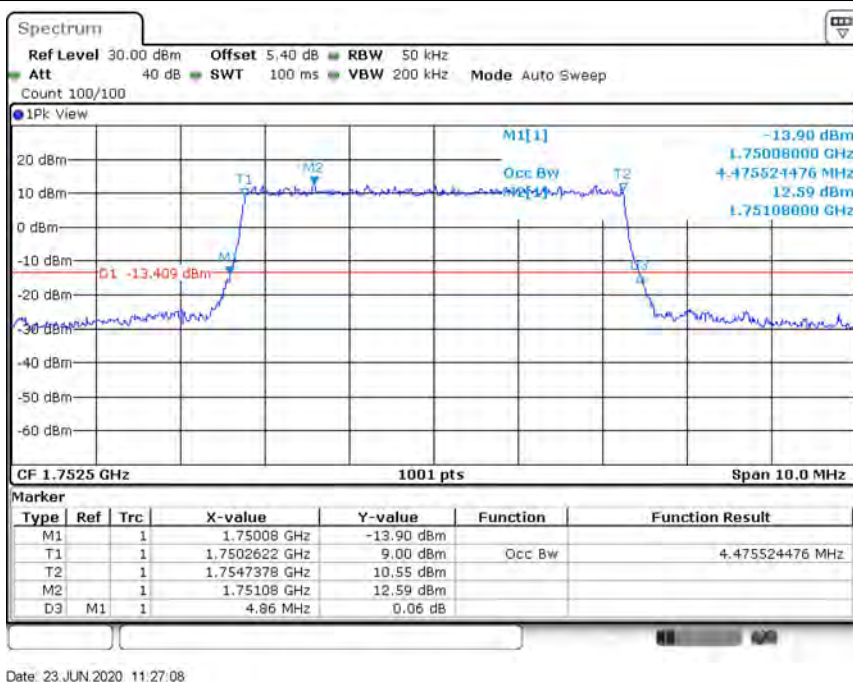


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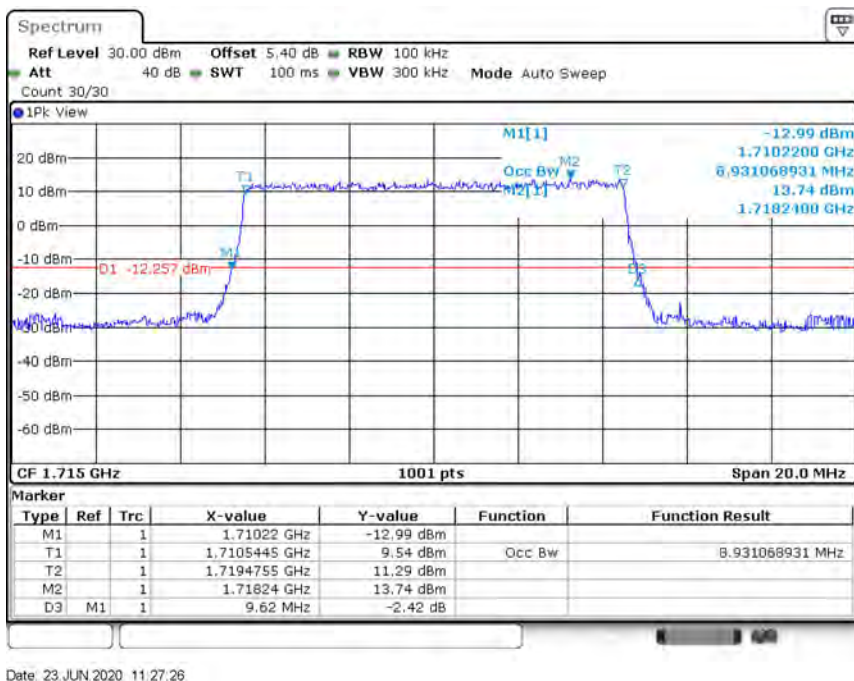


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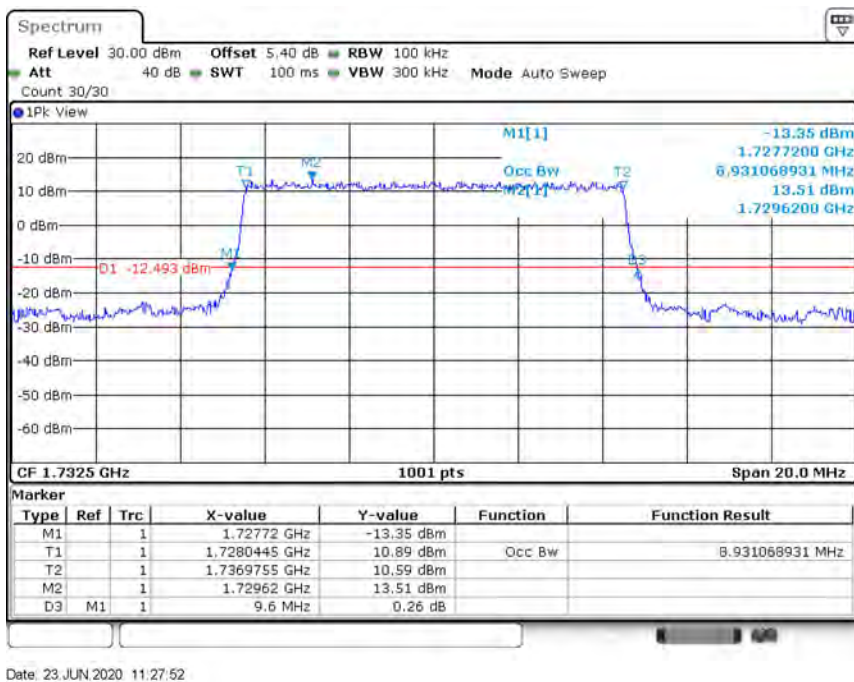


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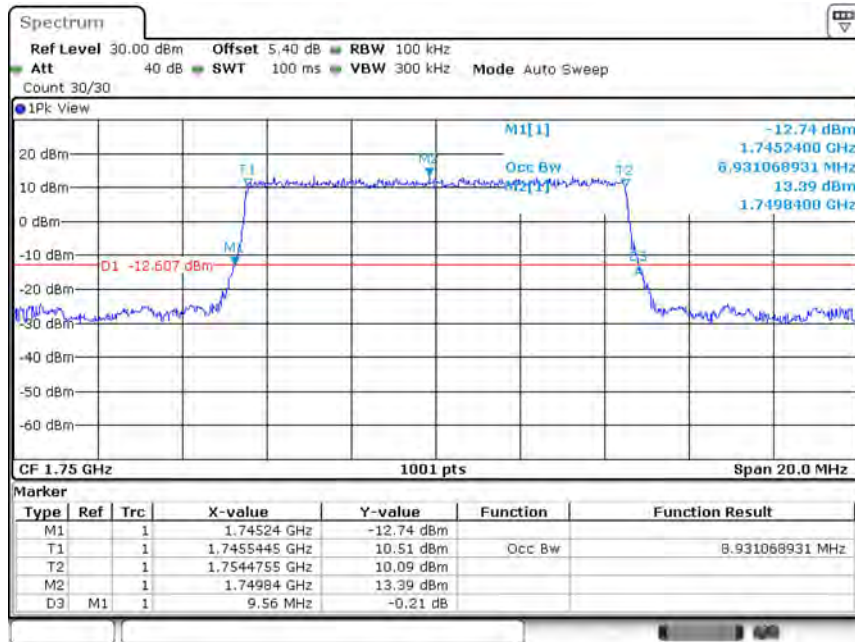


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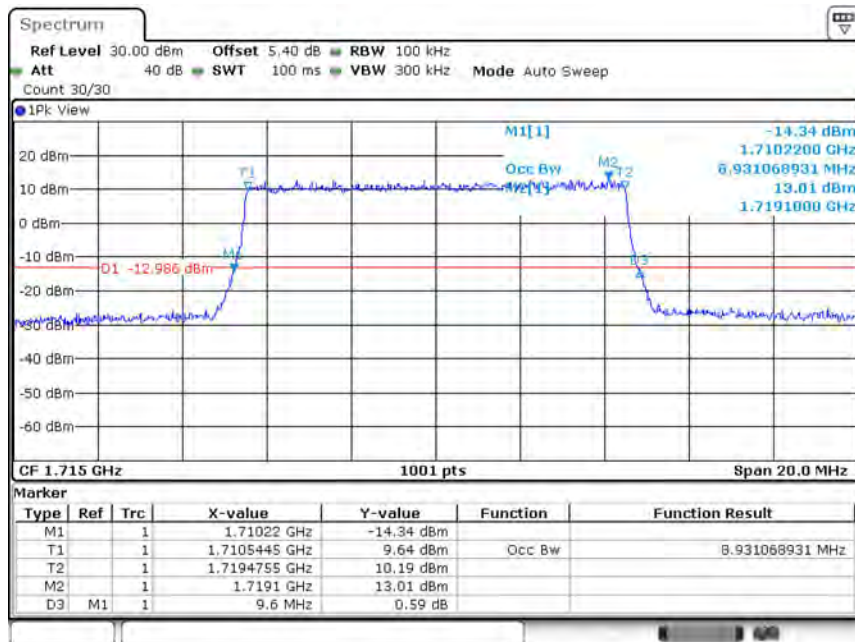
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Date: 23 JUN 2020 11:28:18

Band4-10MHz-64QAM-20000-50RB#0-8.931



Date: 24 JUN 2020 02:00:54

Band4-10MHz-64QAM-20175-50RB#0-8.931



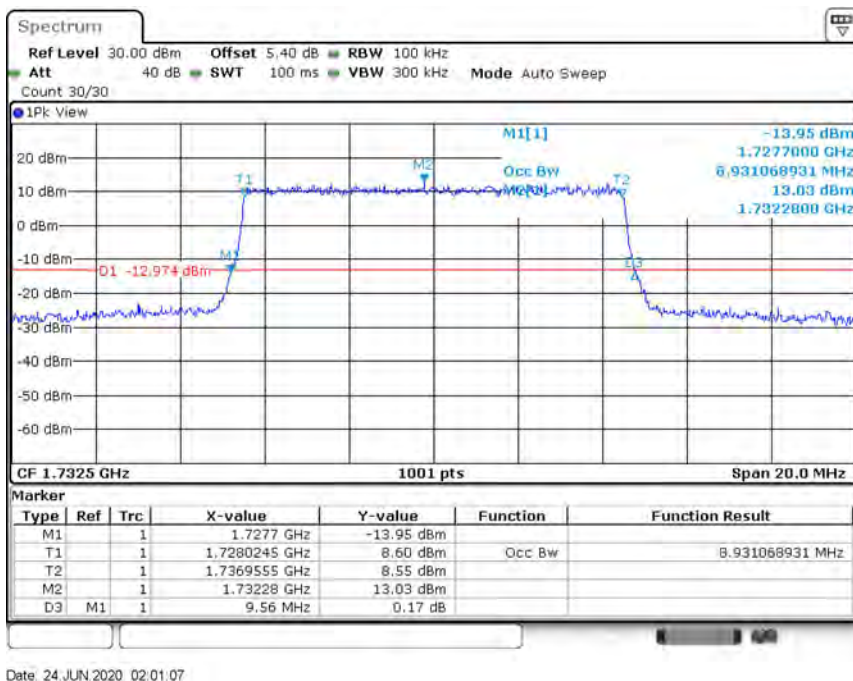
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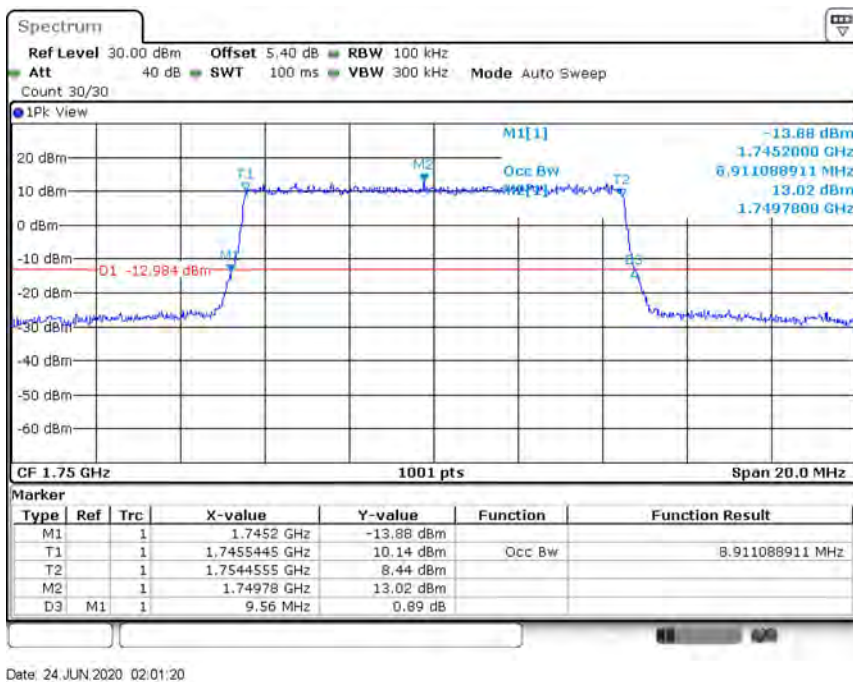
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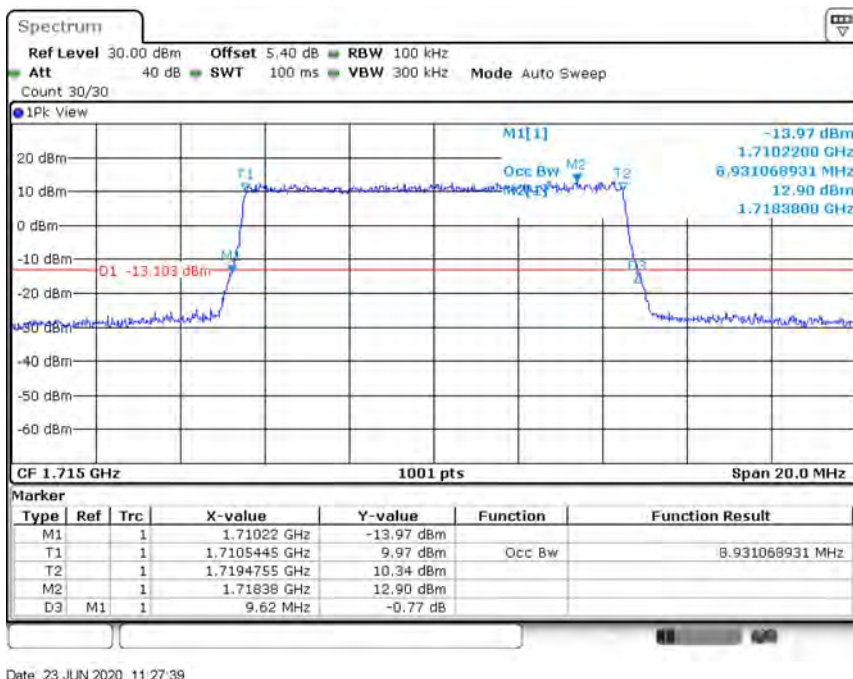


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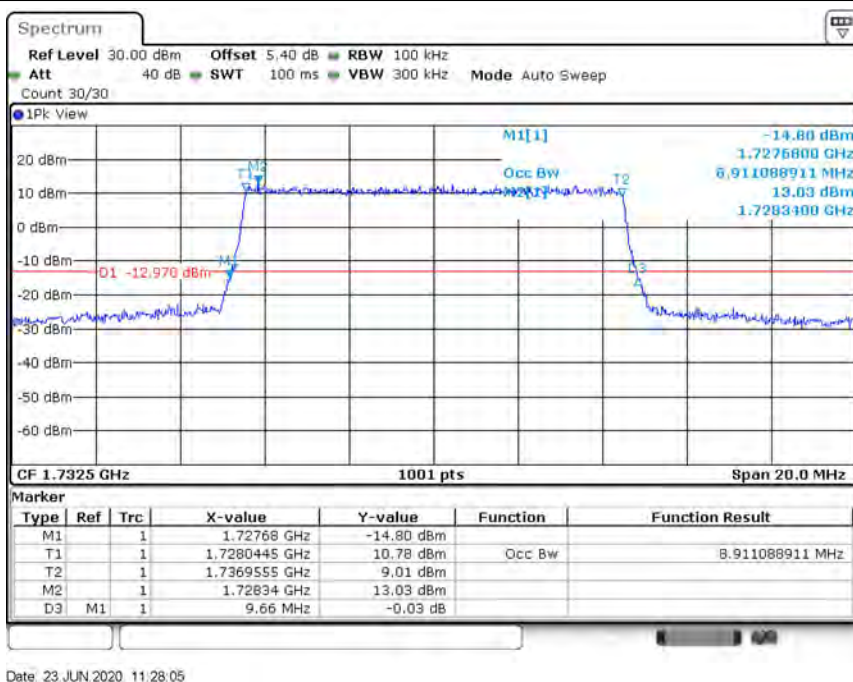


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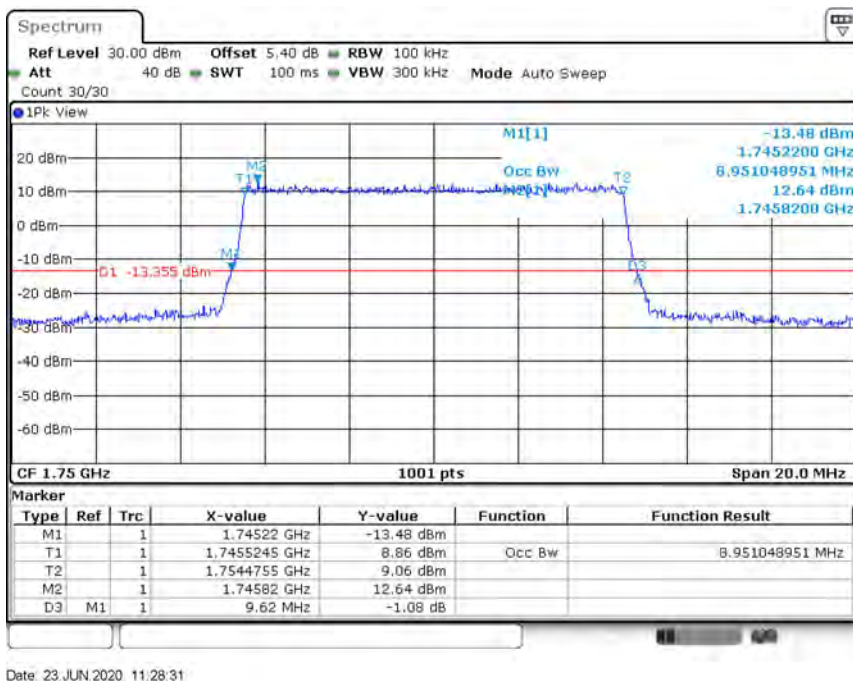


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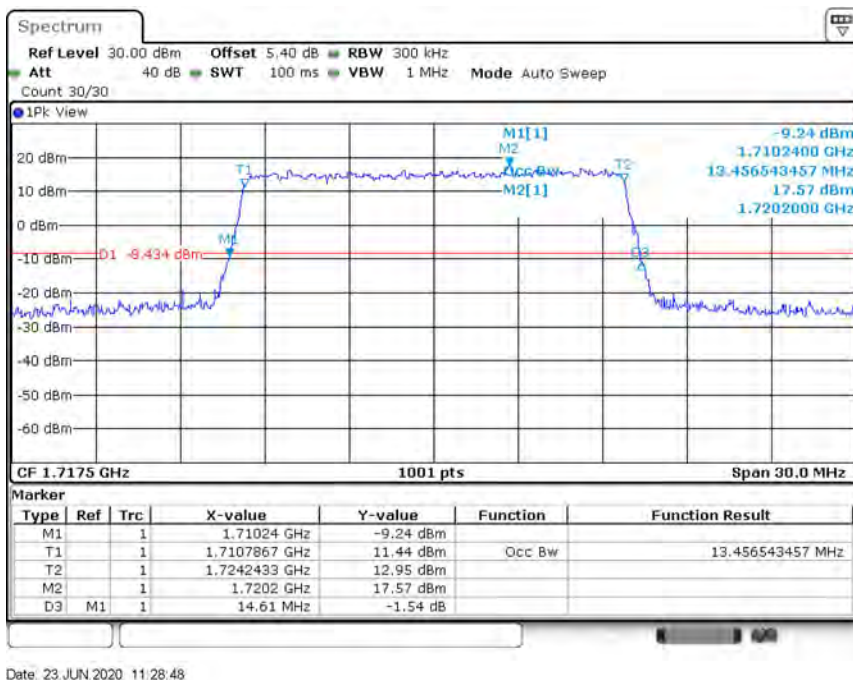


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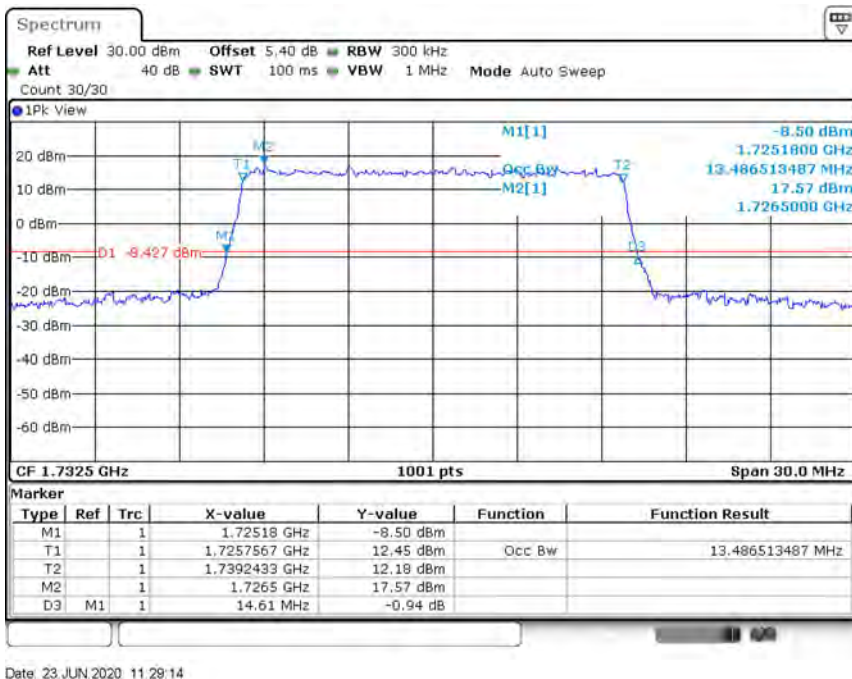


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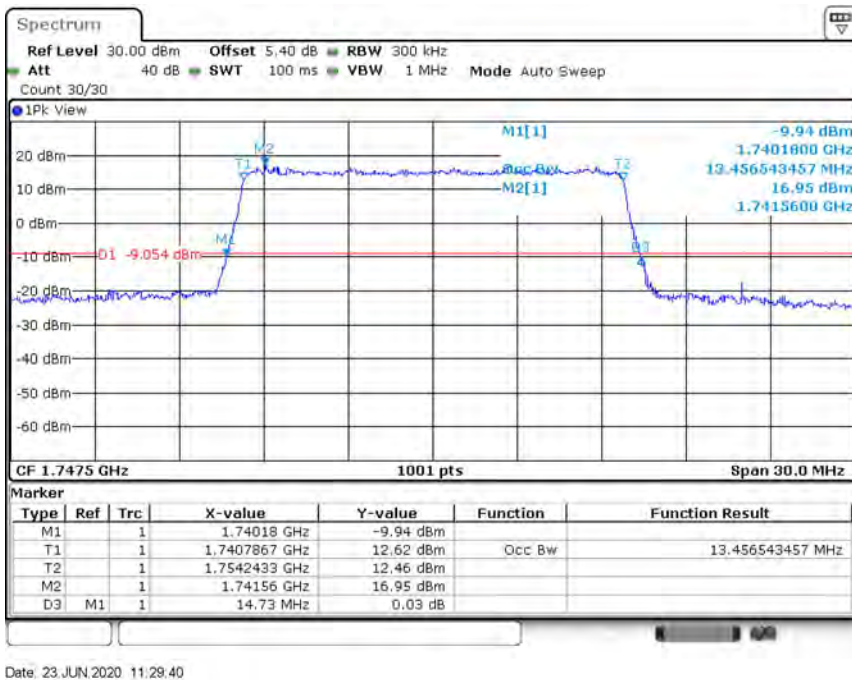


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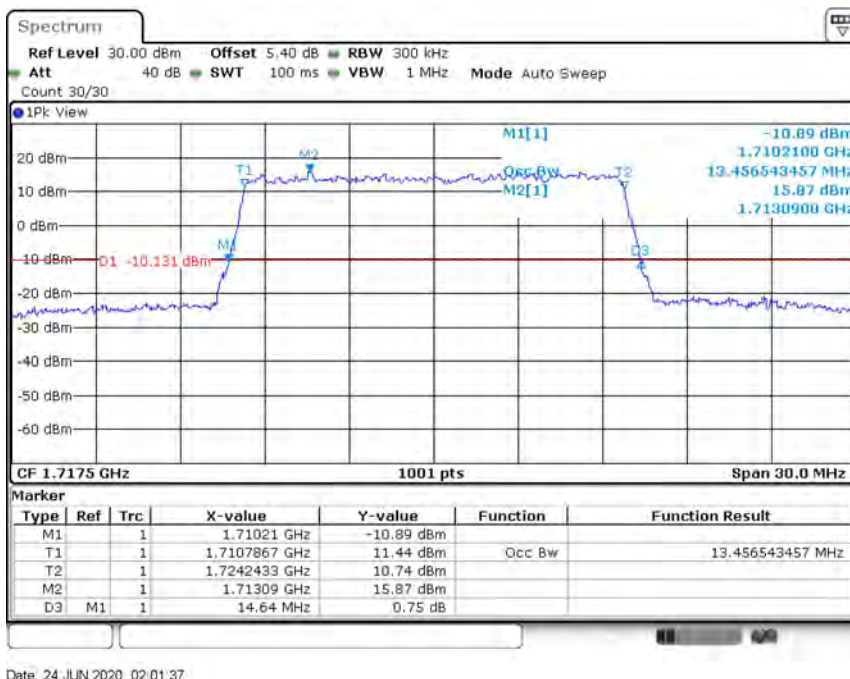


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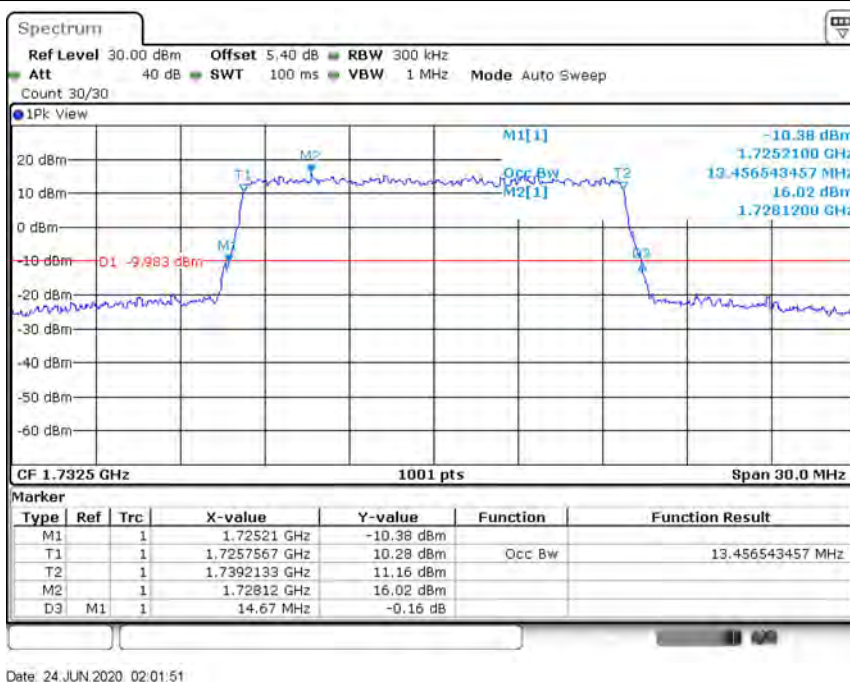


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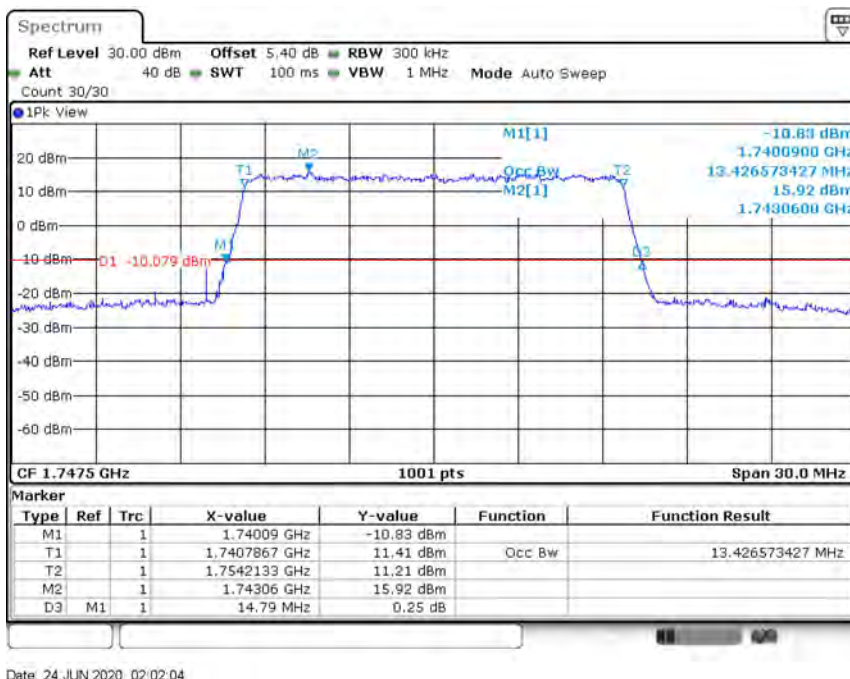


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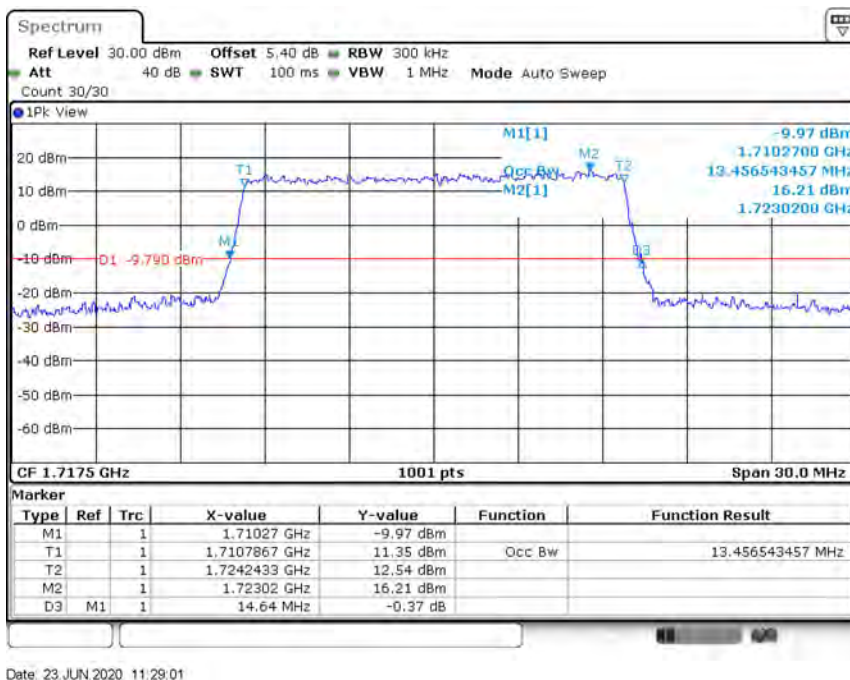


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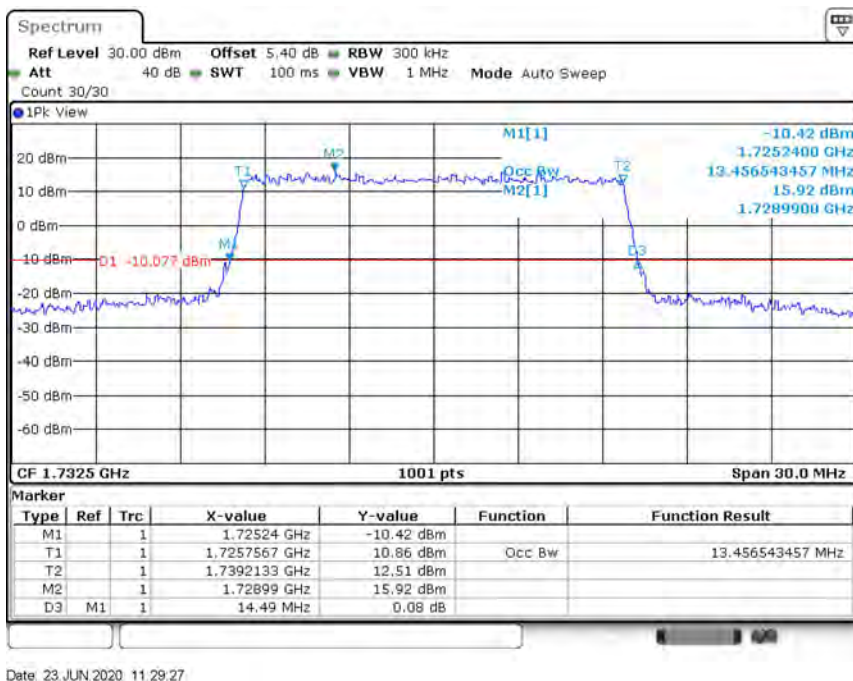


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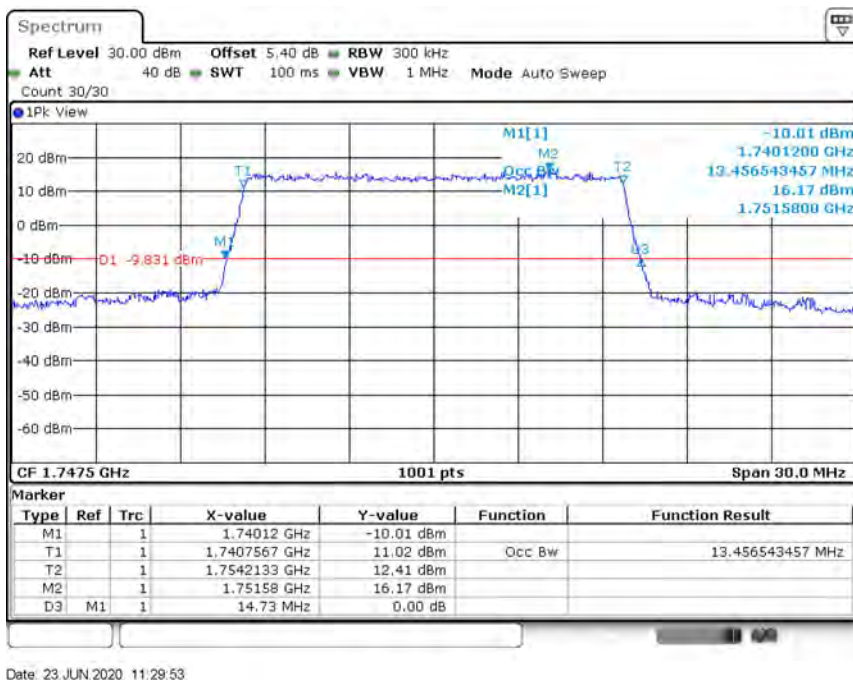


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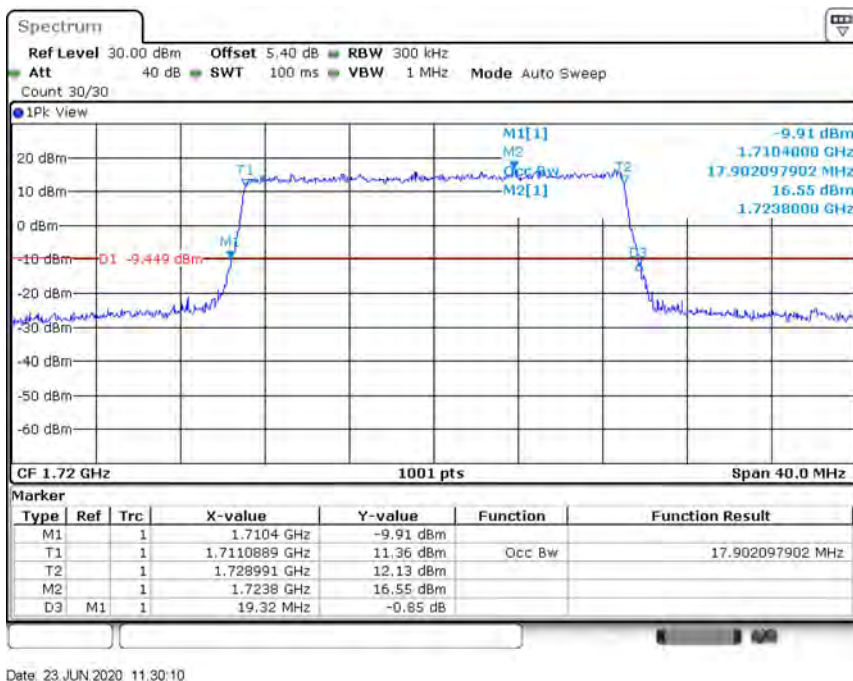


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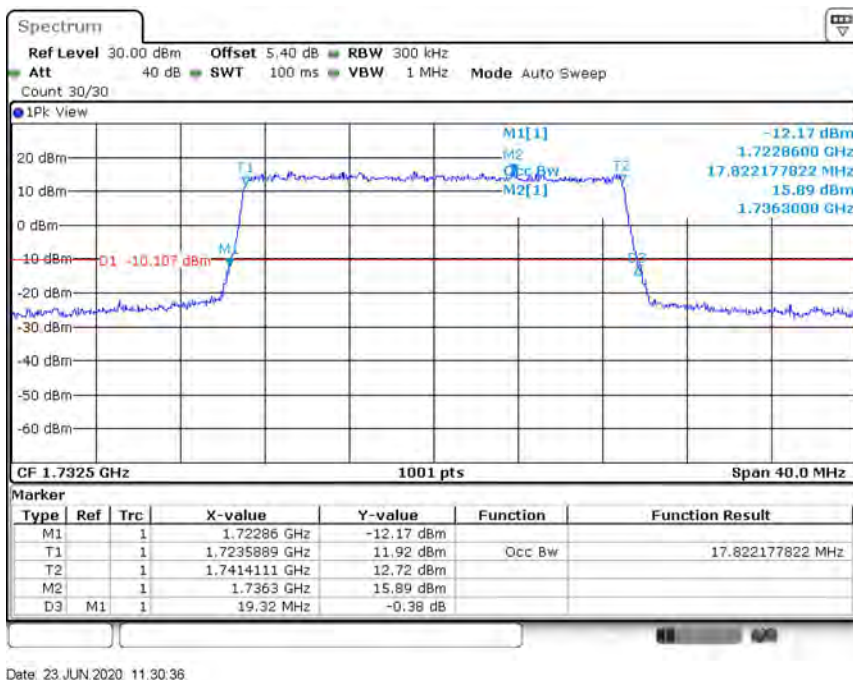


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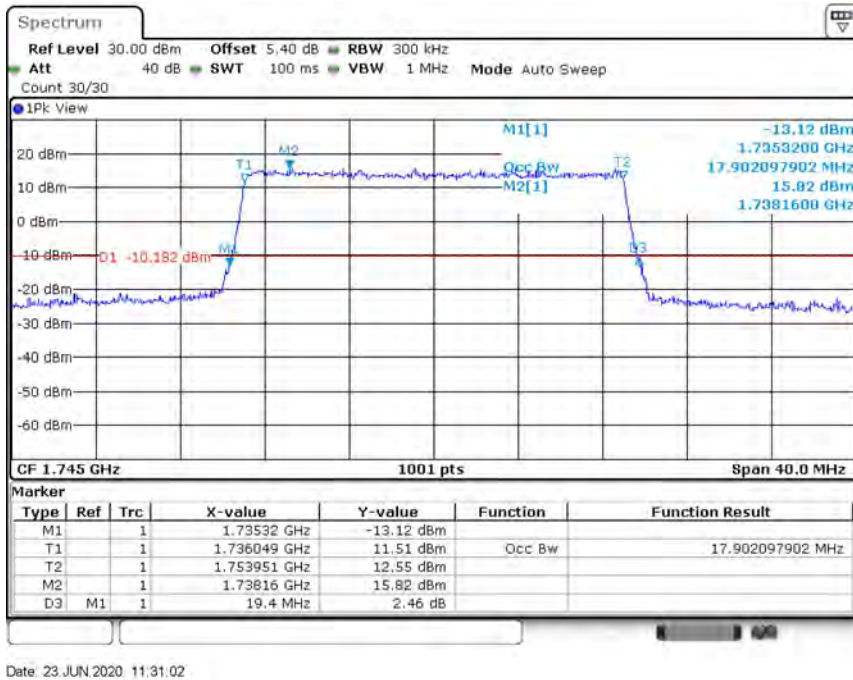


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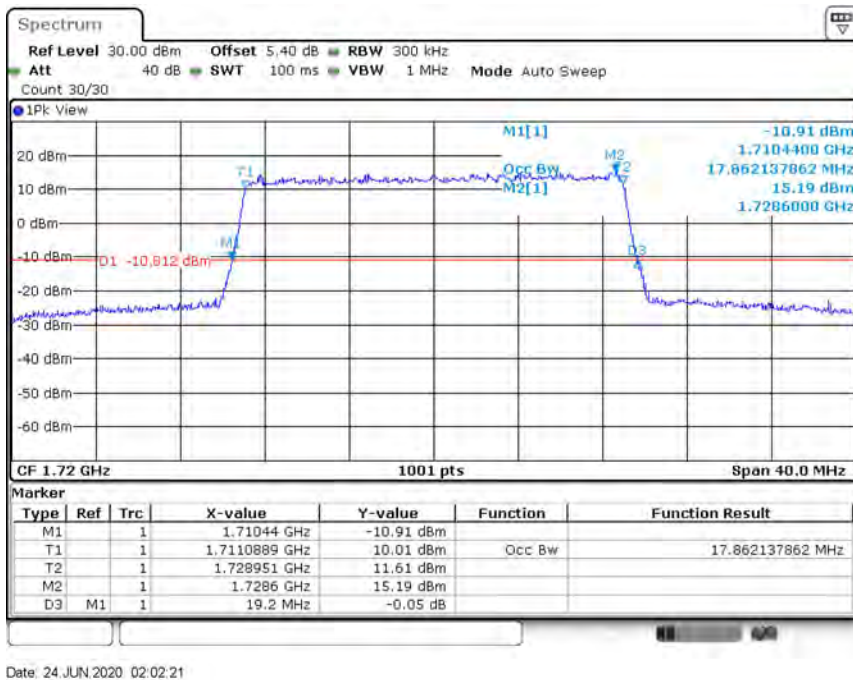


Band4-20MHz-QPSK-20300-100RB#0-17.902





Band4-20MHz-64QAM-20050-100RB#0-17.862

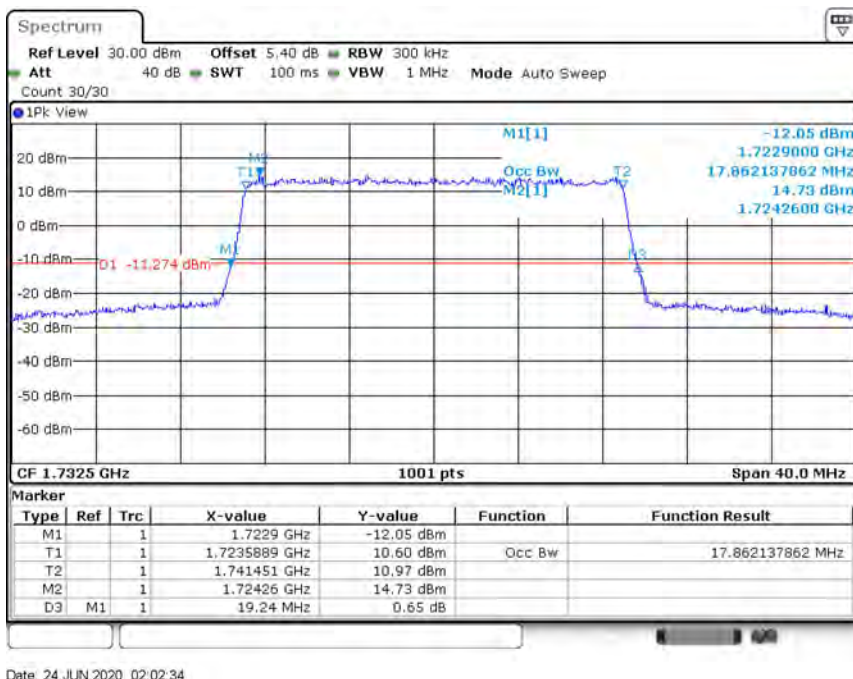


Band4-20MHz-64QAM-20175-100RB#0-17.862

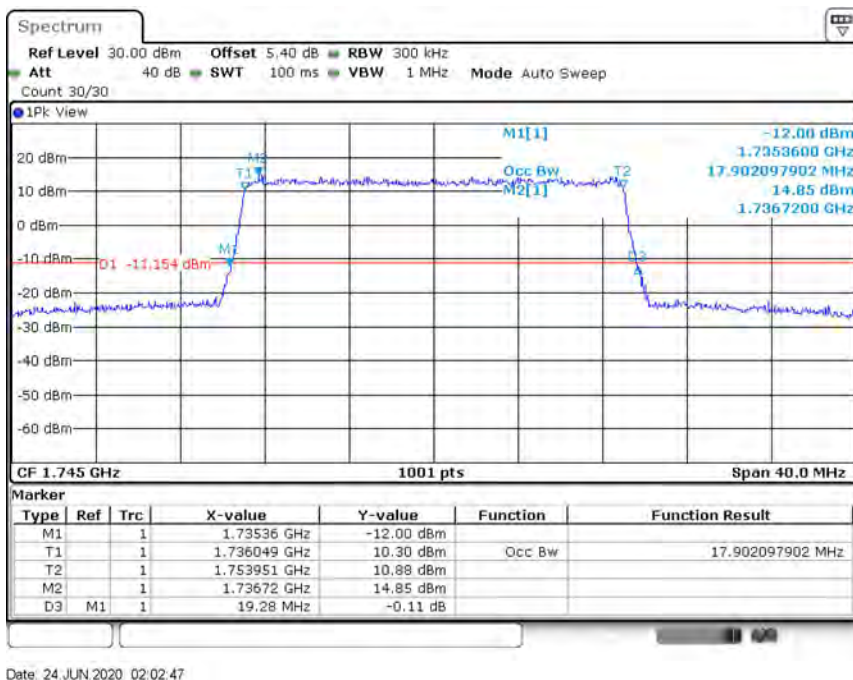


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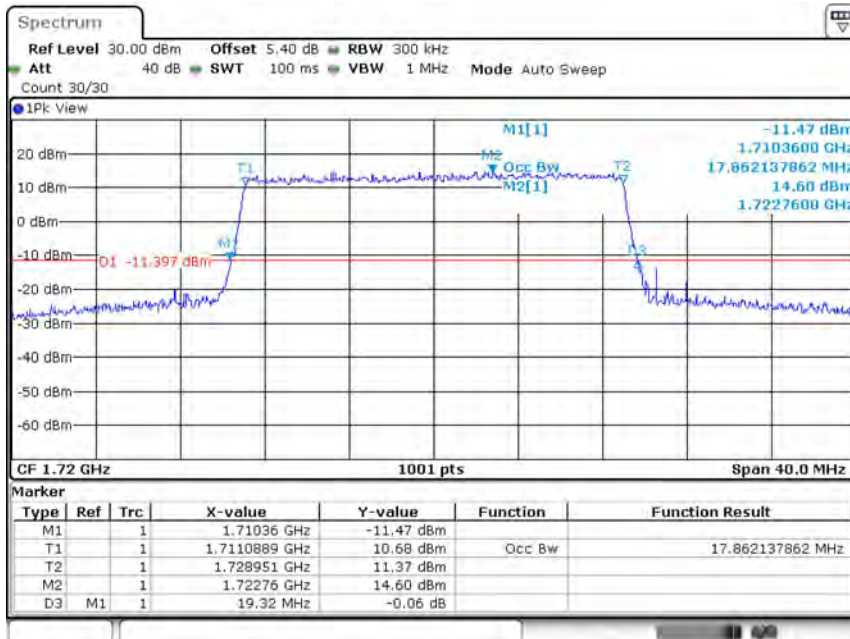


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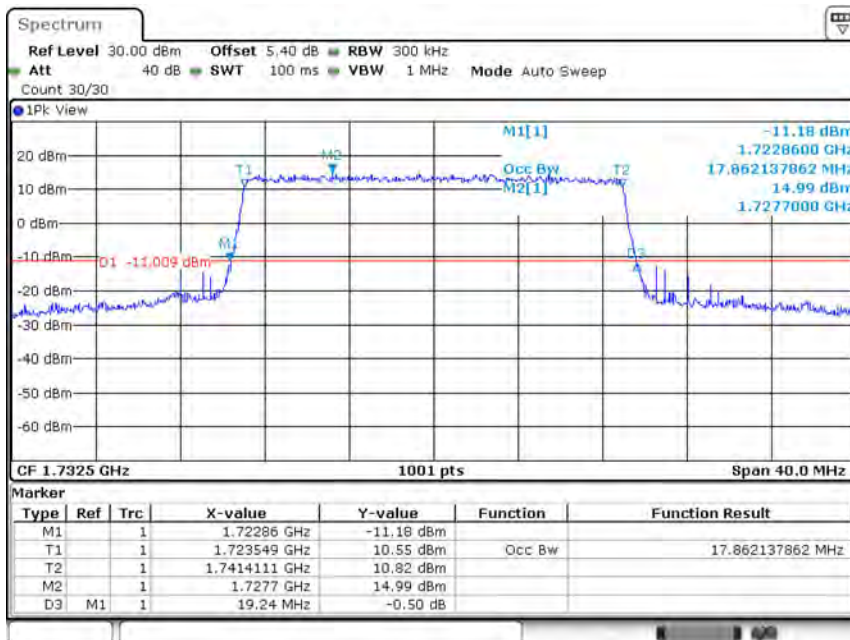
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Band4-20MHz-16QAM-20175-100RB#0-17.862



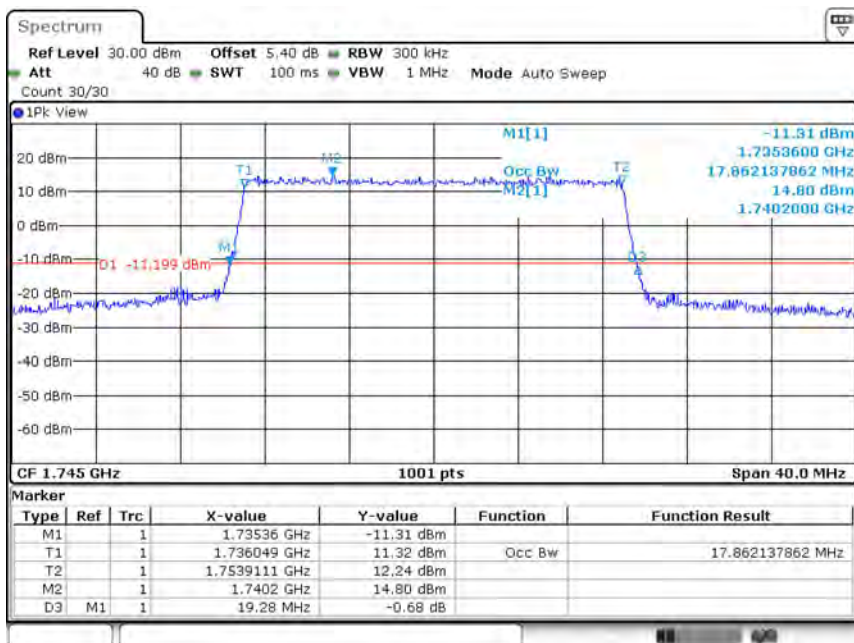
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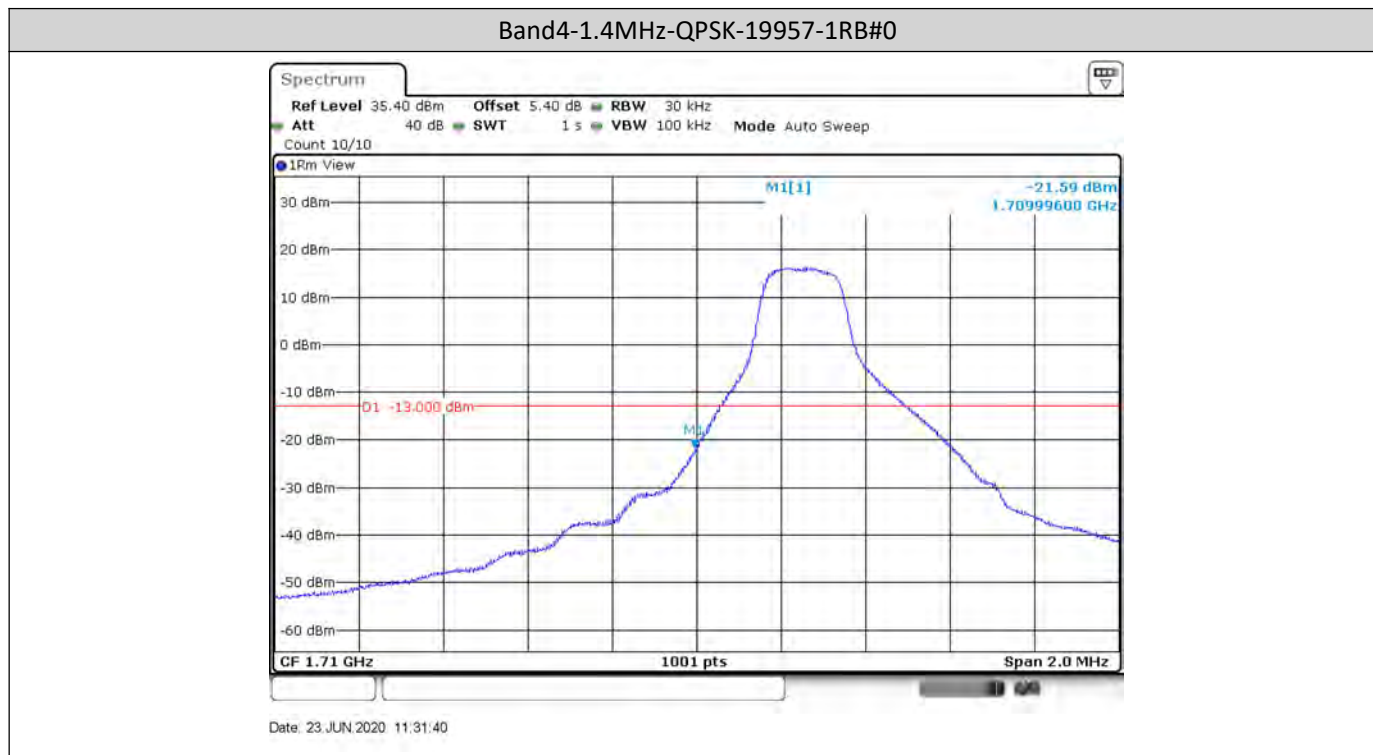
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5. Band Edge Compliance

5.1. Test Plots



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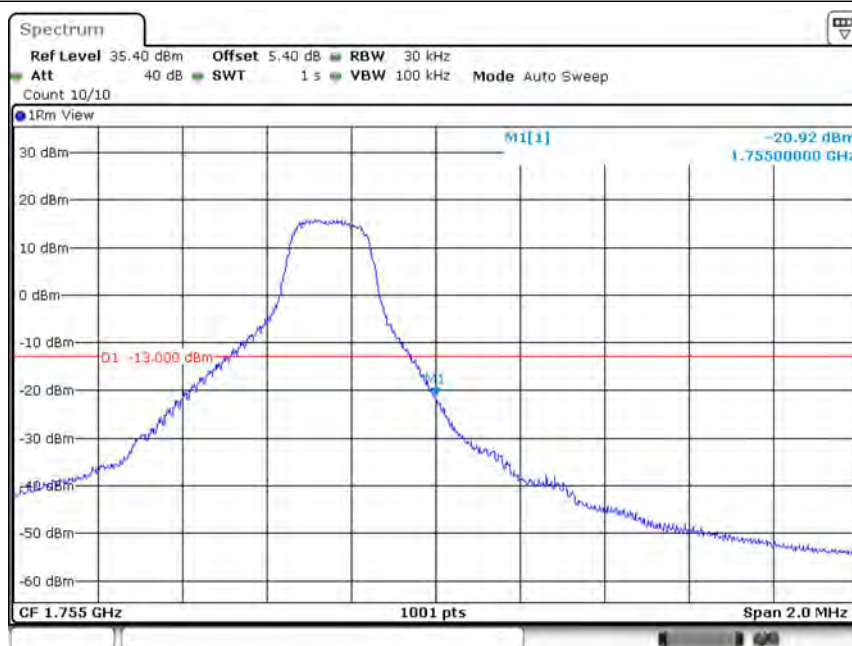


Band4-1.4MHz-QPSK-19957-6RB#0



Date: 23 JUN 2020 11:32:22

Band4-1.4MHz-QPSK-20393-1RB#5



Date: 23 JUN 2020 11:33:07



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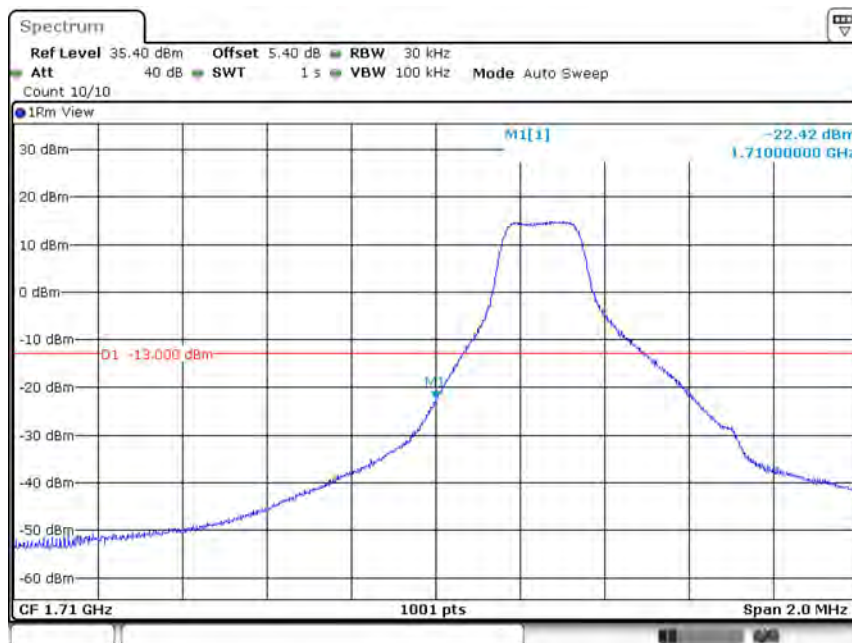
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Band4-1.4MHz-QPSK-20393-6RB#0



Date: 23 JUN 2020 11:33:48

Band4-1.4MHz-64QAM-19957-1RB#0



Date: 24 JUN 2020 02:03:13



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Band4-1.4MHz-64QAM-19957-6RB#0



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Band4-1.4MHz-64QAM-20393-1RB#5



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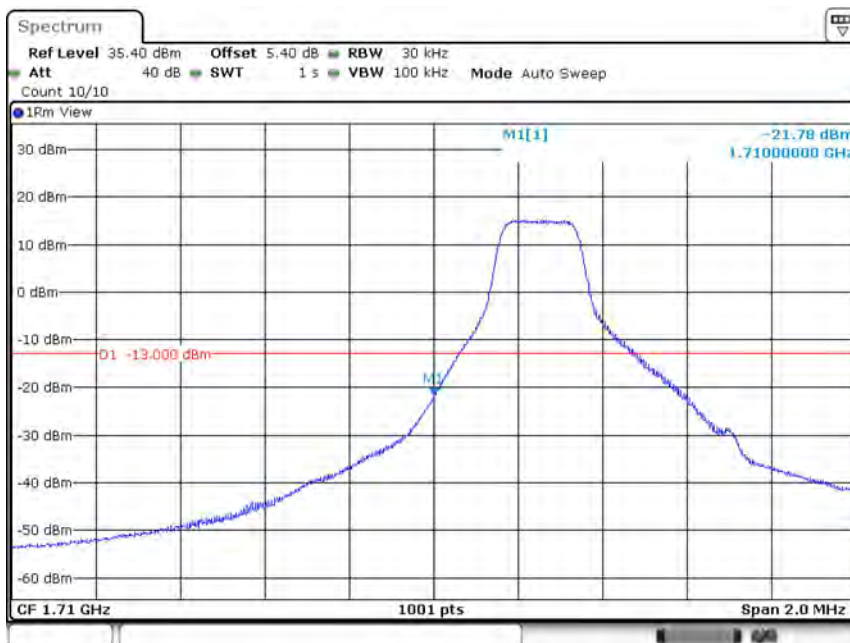
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Band4-1.4MHz-64QAM-20393-6RB#0



Date: 24 JUN 2020 02:04:19

Band4-1.4MHz-16QAM-19957-1RB#0



Date: 23 JUN 2020 11:32:01



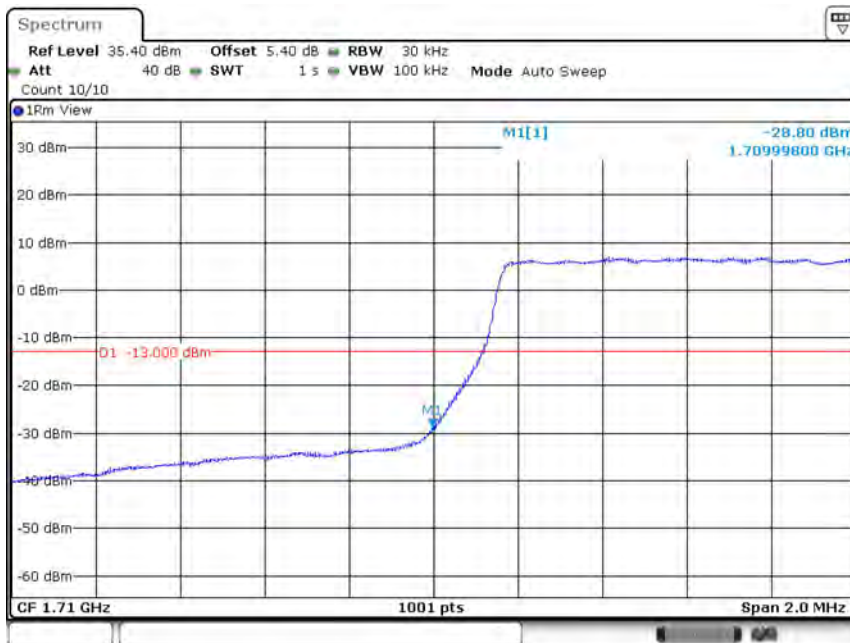
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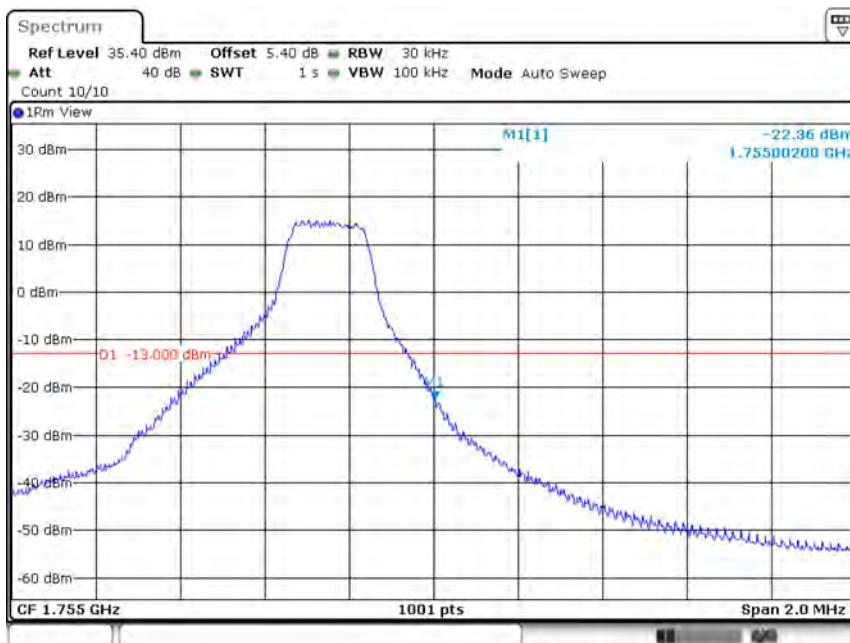
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Band4-1.4MHz-16QAM-19957-6RB#0



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Band4-1.4MHz-16QAM-20393-1RB#5



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Band4-1.4MHz-16QAM-20393-6RB#0



Date: 23 JUN 2020 11:34:09

Band4-3MHz-QPSK-19965-1RB#0



Date: 23 JUN 2020 11:34:34



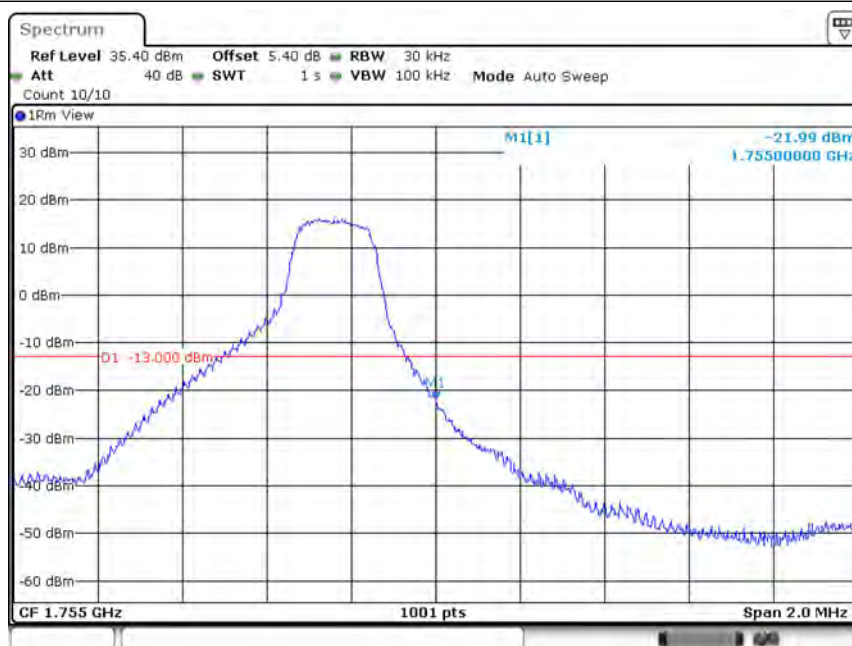
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Band4-3MHz-QPSK-19965-15RB#0



Date: 23 JUN 2020 11:35:16

Band4-3MHz-QPSK-20385-1RB#14



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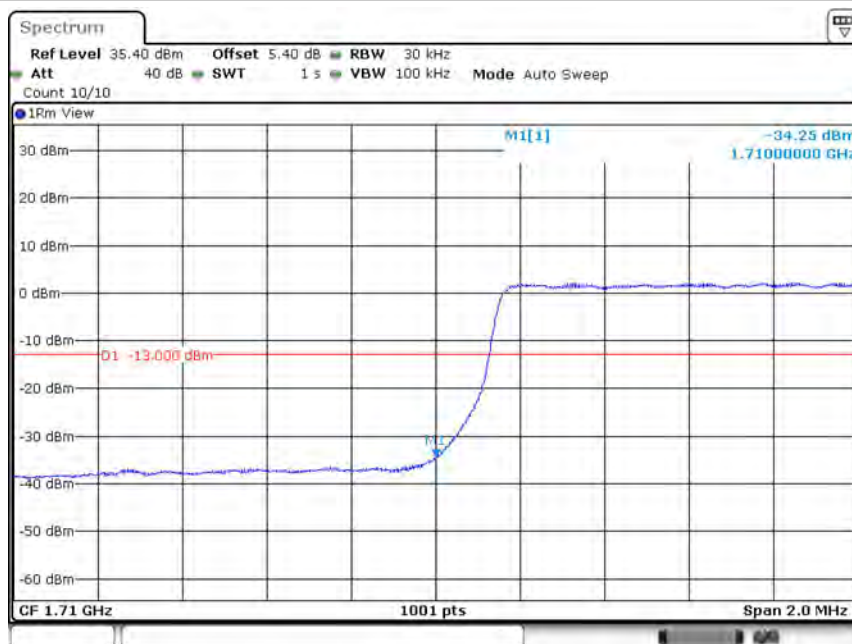
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Band4-3MHz-64QAM-19965-15RB#0



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Band4-3MHz-64QAM-20385-1RB#14



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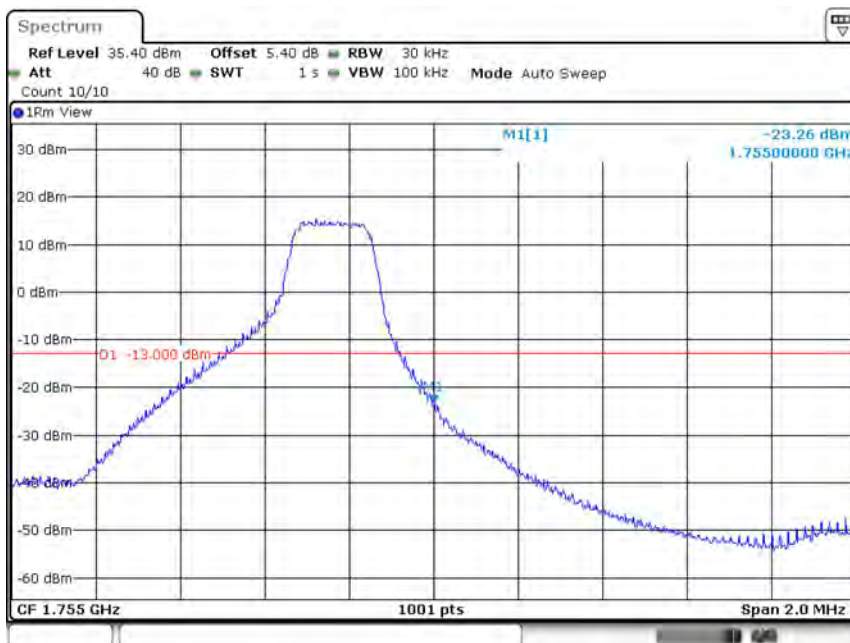
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Band4-3MHz-16QAM-20385-15RB#0



Date: 23 JUN 2020 11:37:04

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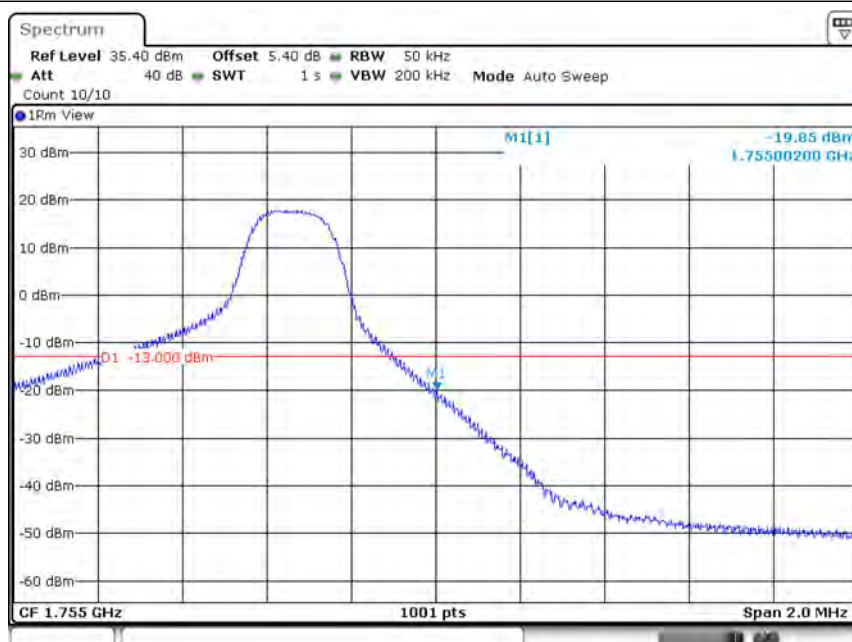
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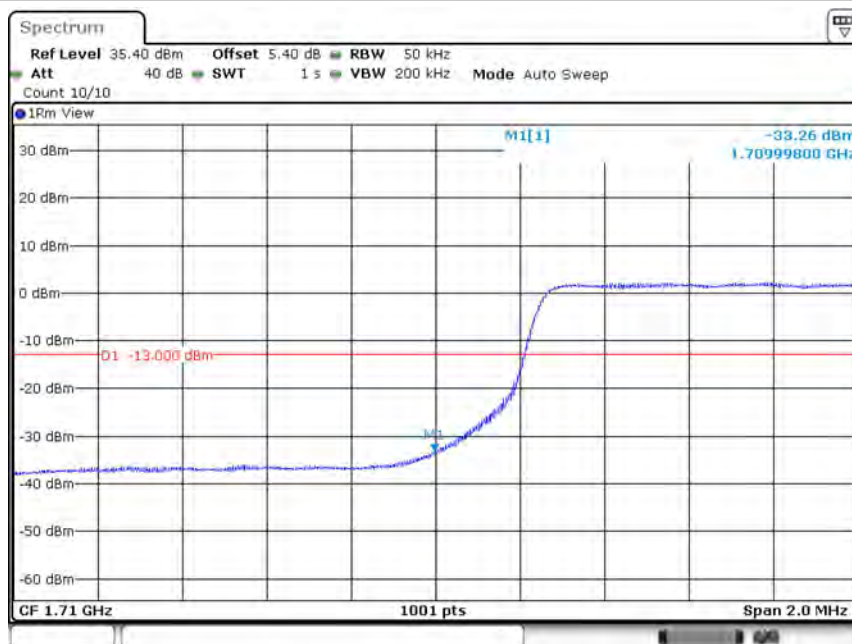
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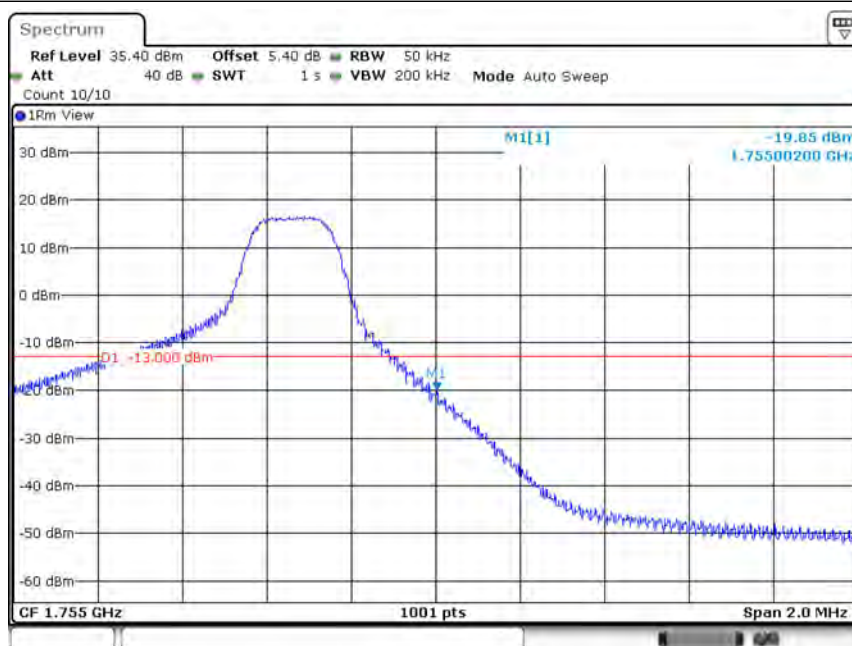


Band4-5MHz-64QAM-19975-25RB#0



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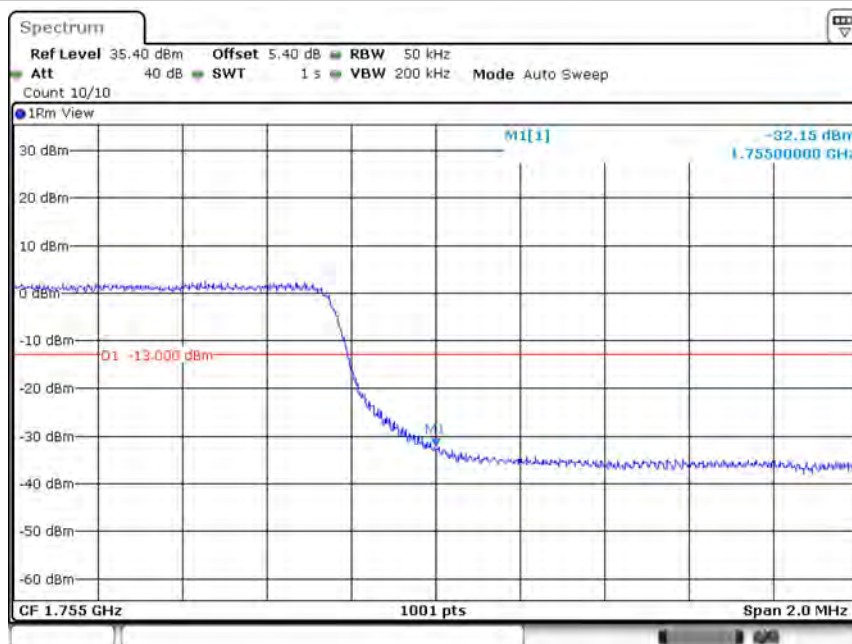
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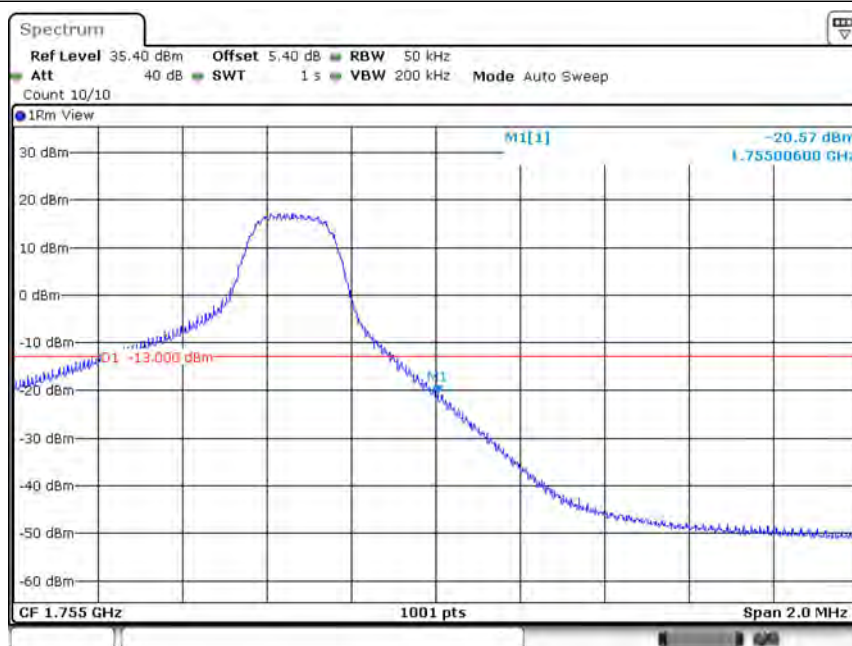
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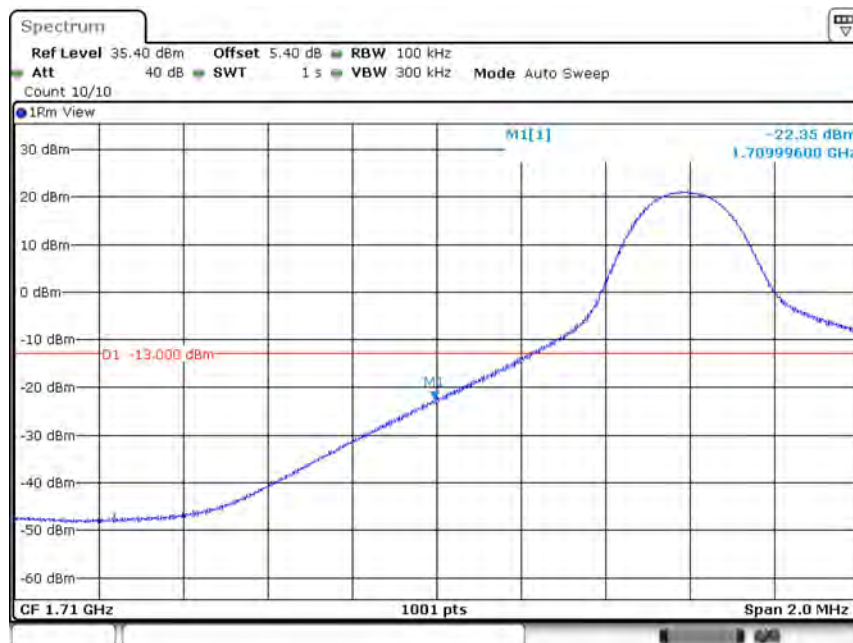


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Band4-10MHz-QPSK-20000-1RB#0



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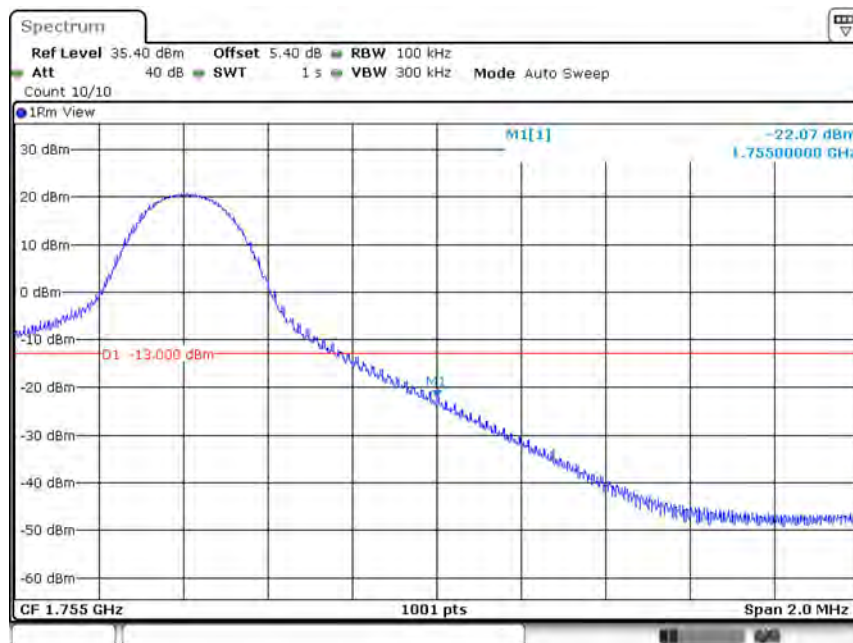


Band4-10MHz-QPSK-20000-50RB#0



Date: 23 JUN 2020 11:41:05

Band4-10MHz-QPSK-20350-1RB#49



Date: 23 JUN 2020 11:41:51



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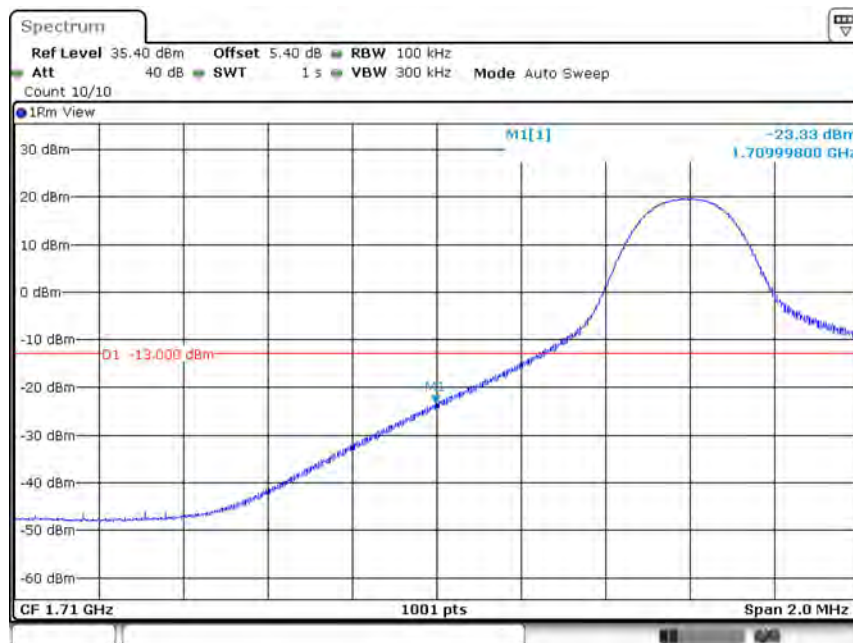


Band4-10MHz-QPSK-20350-50RB#0



Date: 23 JUN 2020 11:42:32

Band4-10MHz-64QAM-20000-1RB#0



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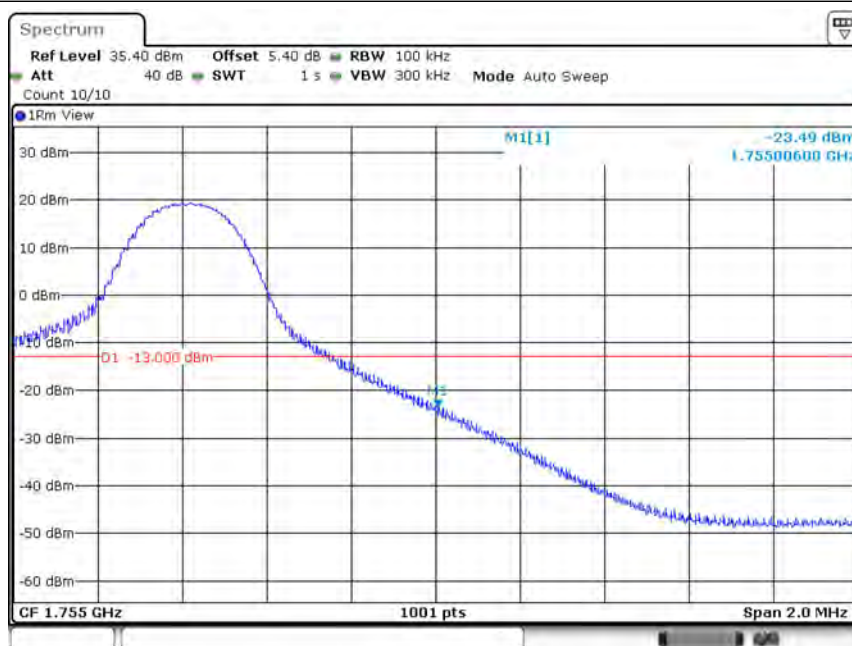


Band4-10MHz-64QAM-20000-50RB#0



Date: 24 JUN 2020 02:08:10

Band4-10MHz-64QAM-20350-1RB#49



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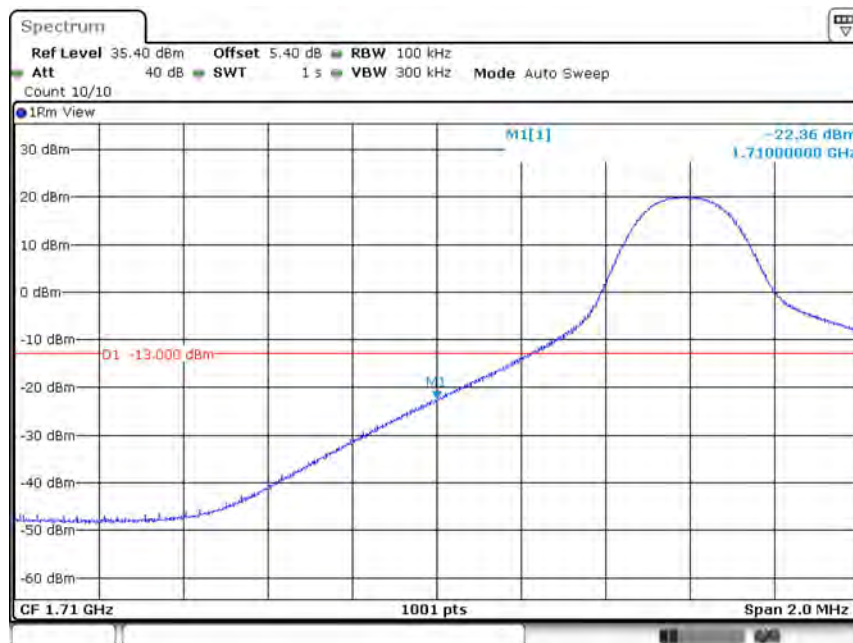


Band4-10MHz-64QAM-20350-50RB#0



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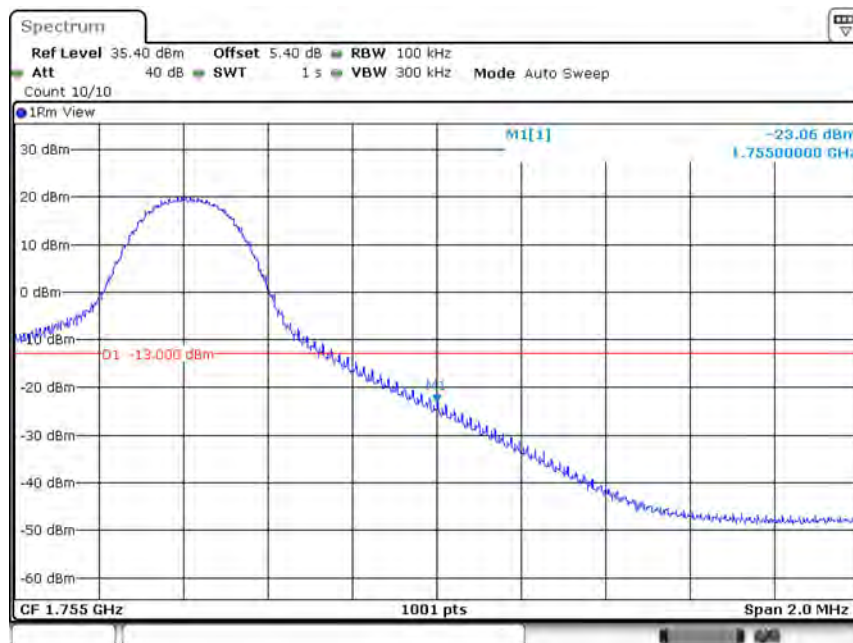
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Band4-10MHz-16QAM-20000-50RB#0



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Band4-10MHz-16QAM-20350-1RB#49



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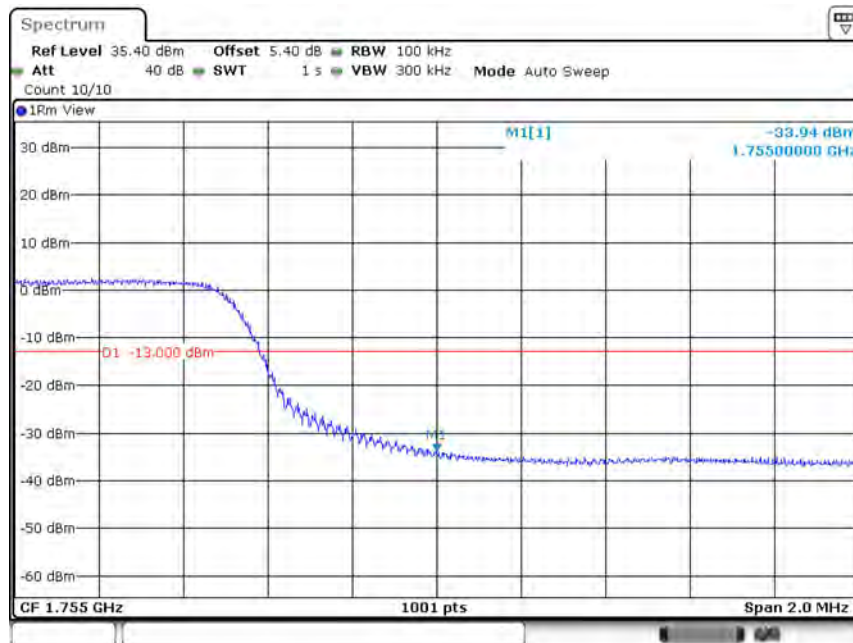
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Band4-10MHz-16QAM-20350-50RB#0



Date: 23 JUN 2020 11:42:53

Band4-15MHz-QPSK-20025-1RB#0



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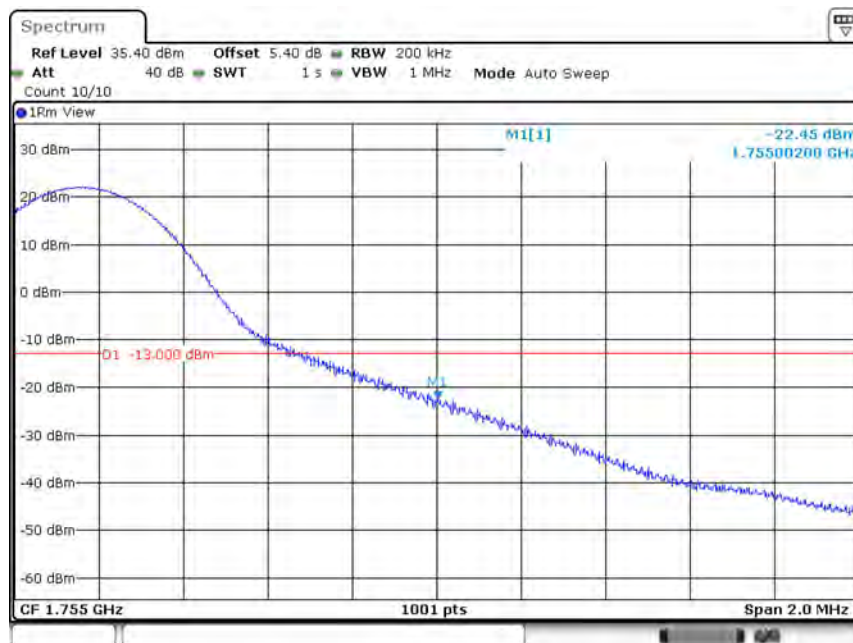


Band4-15MHz-QPSK-20025-75RB#0



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Band4-15MHz-QPSK-20325-1RB#74



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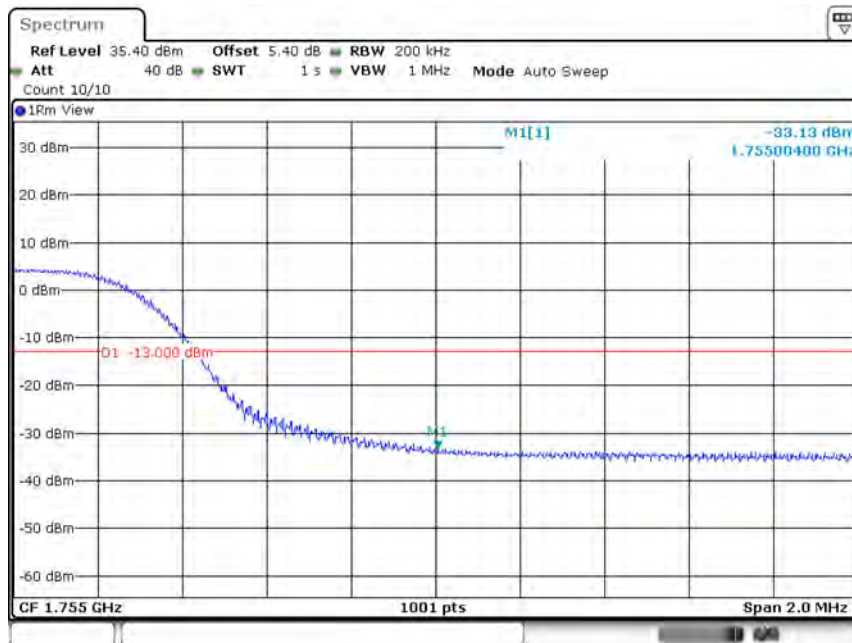
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Band4-15MHz-QPSK-20325-75RB#0



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Band4-15MHz-64QAM-20025-1RB#0



Date: 24 JUN 2020 02:09:21



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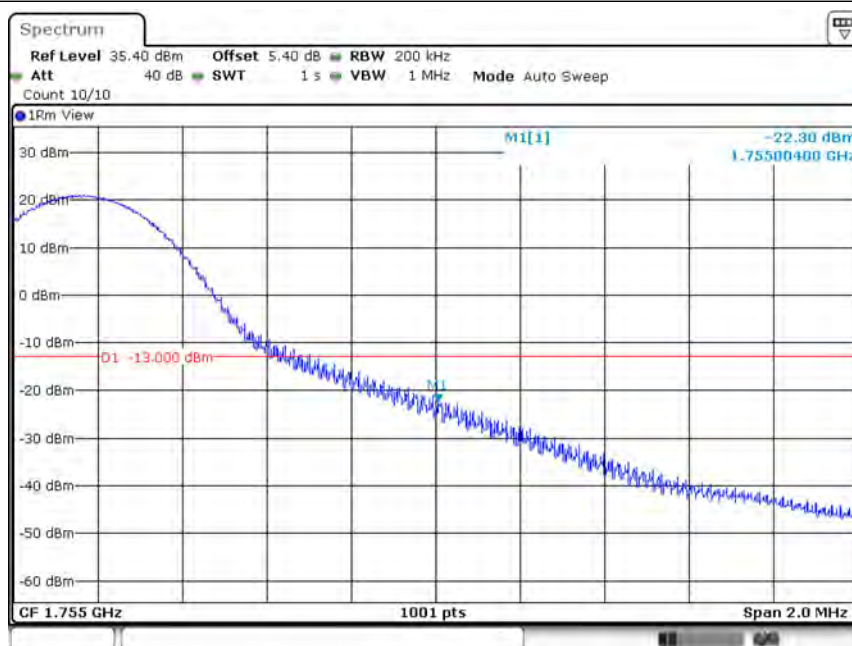


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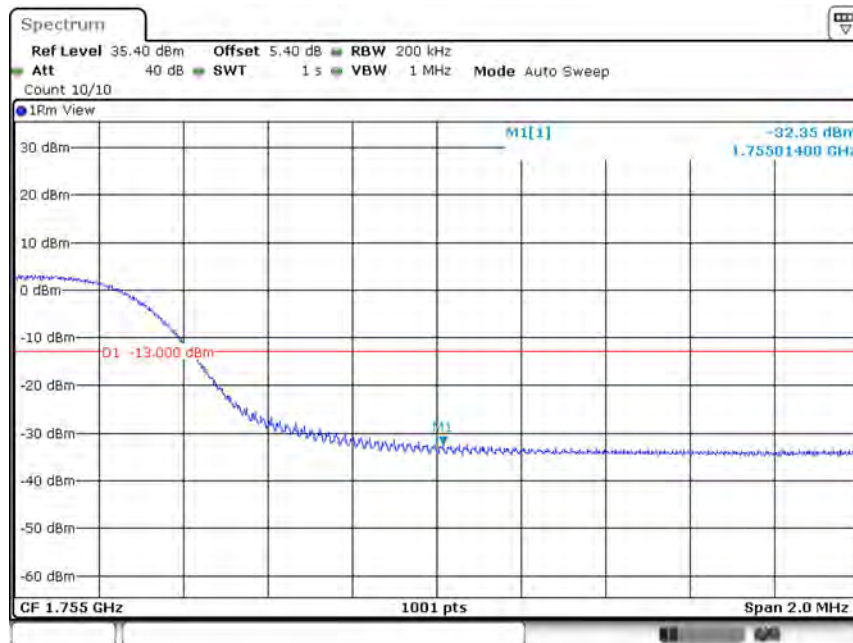
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Band4-15MHz-64QAM-20325-75RB#0



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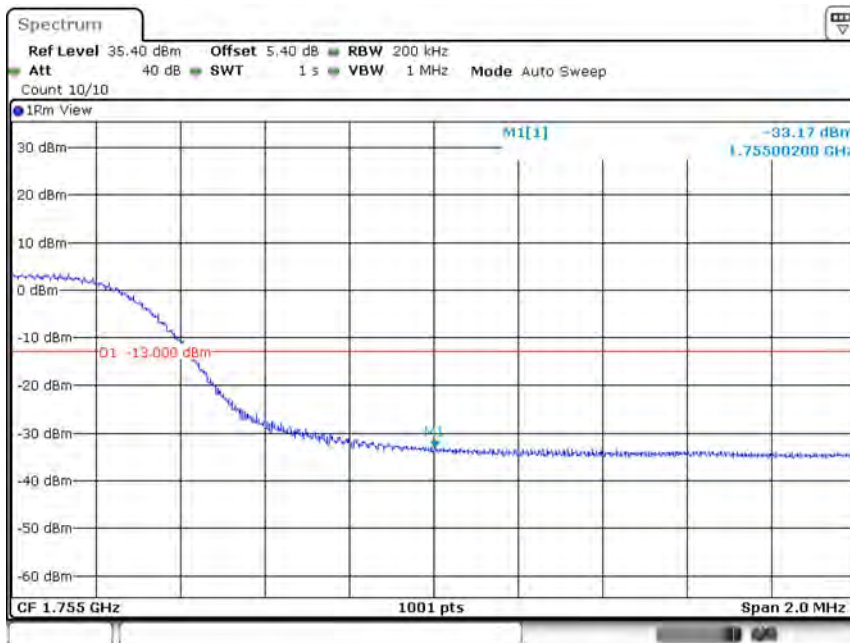
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Band4-15MHz-16QAM-20325-75RB#0



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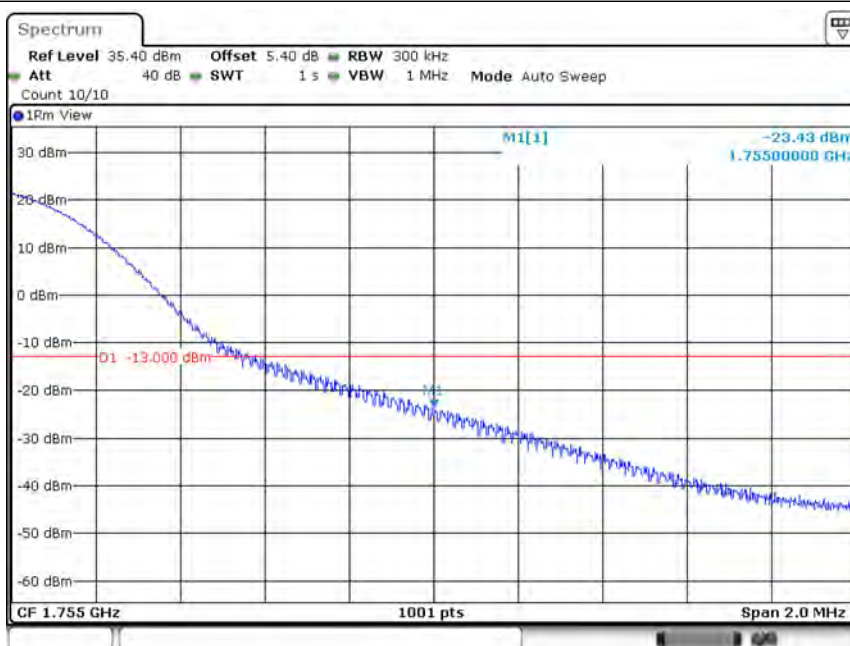
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Band4-20MHz-QPSK-20300-1RB#99



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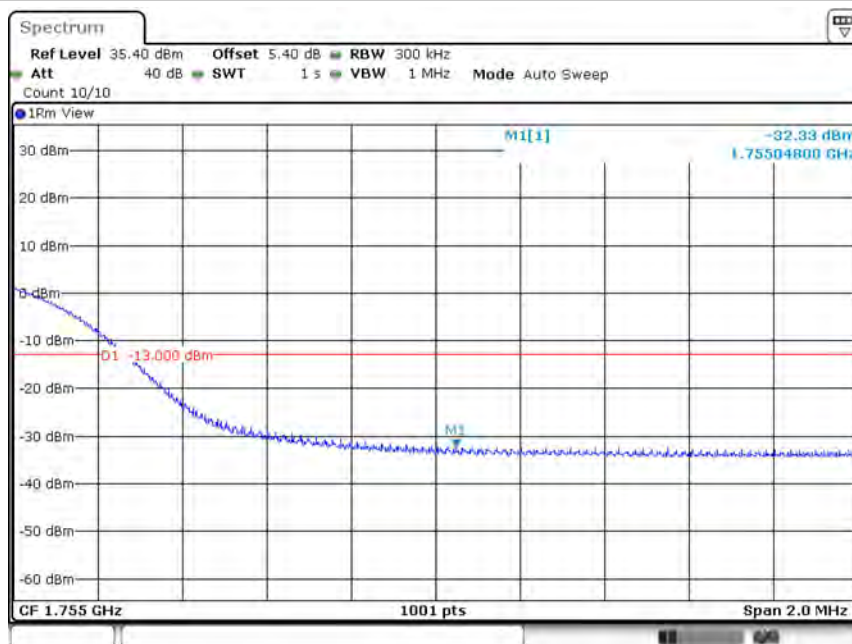
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Band4-20MHz-QPSK-20300-100RB#0



Date: 23 JUN 2020 11:48:20

Band4-20MHz-64QAM-20050-1RB#0



Date: 24 JUN 2020 02:10:53

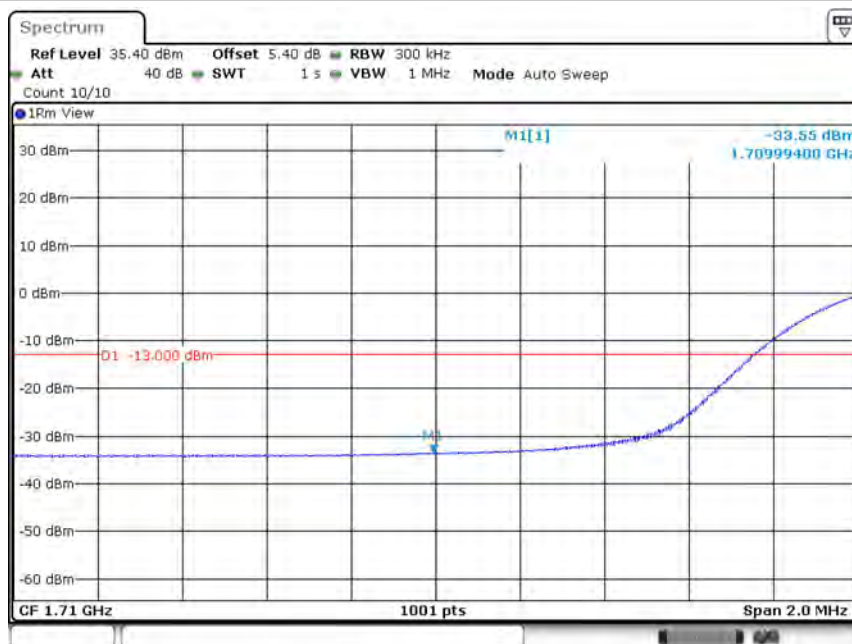


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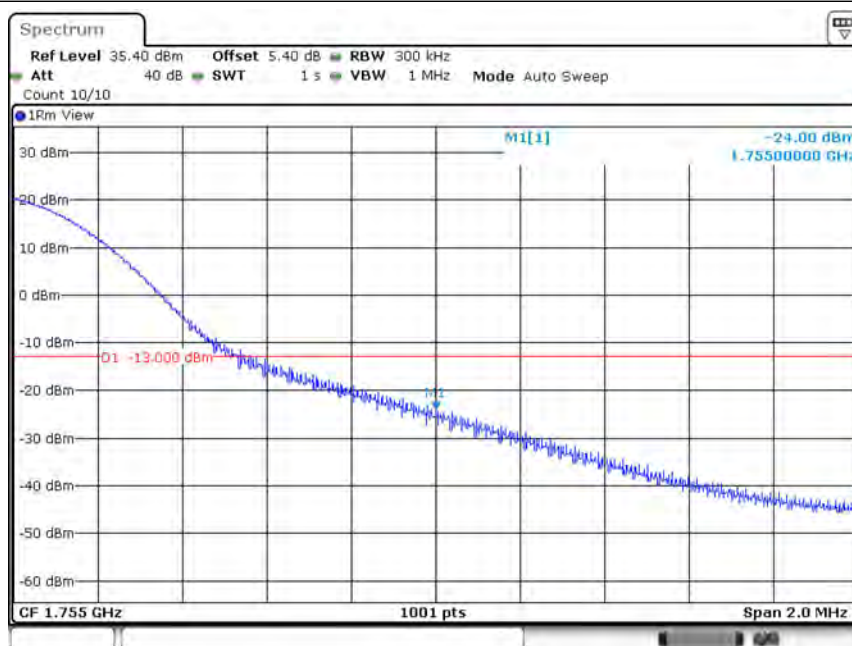


Band4-20MHz-64QAM-20050-100RB#0



Date: 24 JUN 2020 02:11:13

Band4-20MHz-64QAM-20300-1RB#99



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Band4-20MHz-64QAM-20300-100RB#0



Date: 24 JUN 2020 02:11:59

Band4-20MHz-16QAM-20050-1RB#0



Date: 23 JUN 2020 11:46:33



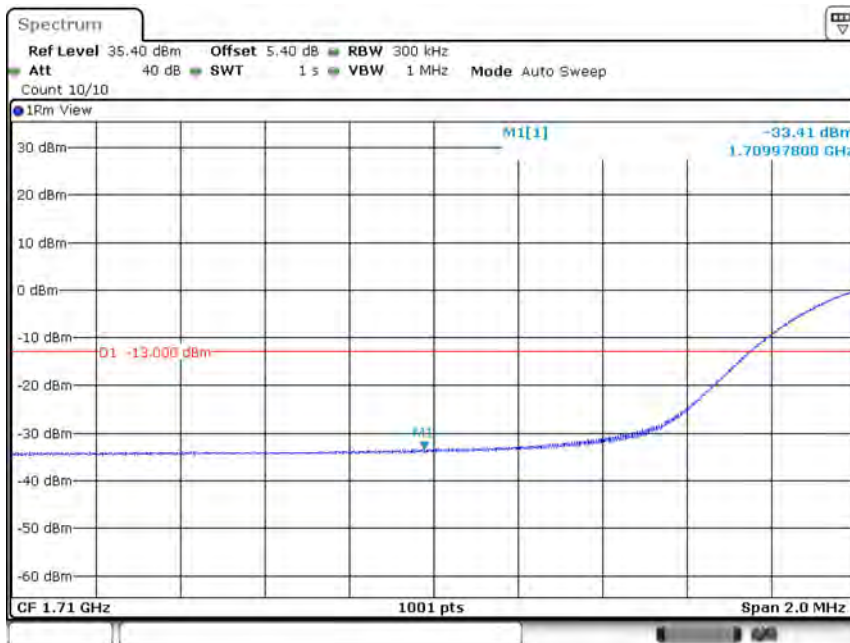
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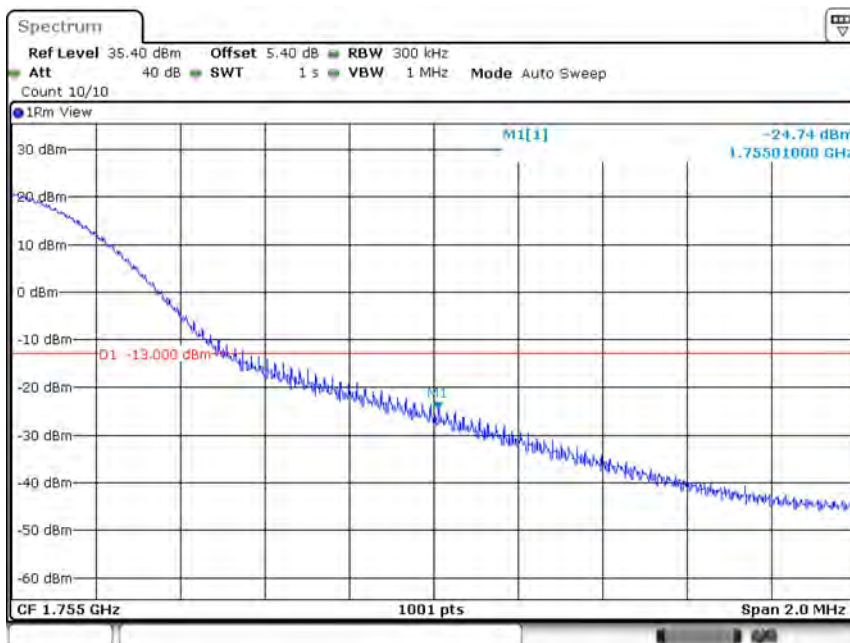


Band4-20MHz-16QAM-20050-100RB#0



Date: 23 JUN 2020 11:47:14

Band4-20MHz-16QAM-20300-1RB#99



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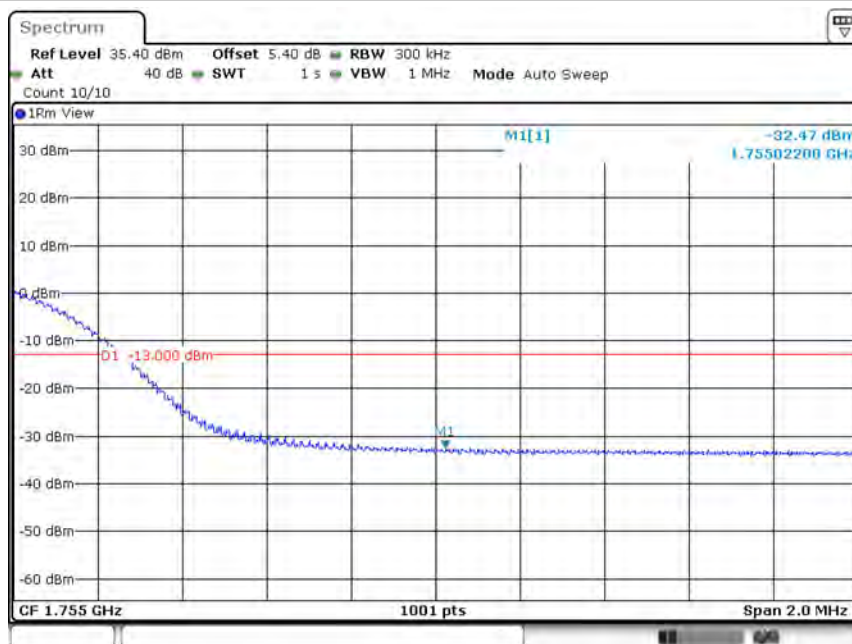
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Band4-20MHz-16QAM-20300-100RB#0



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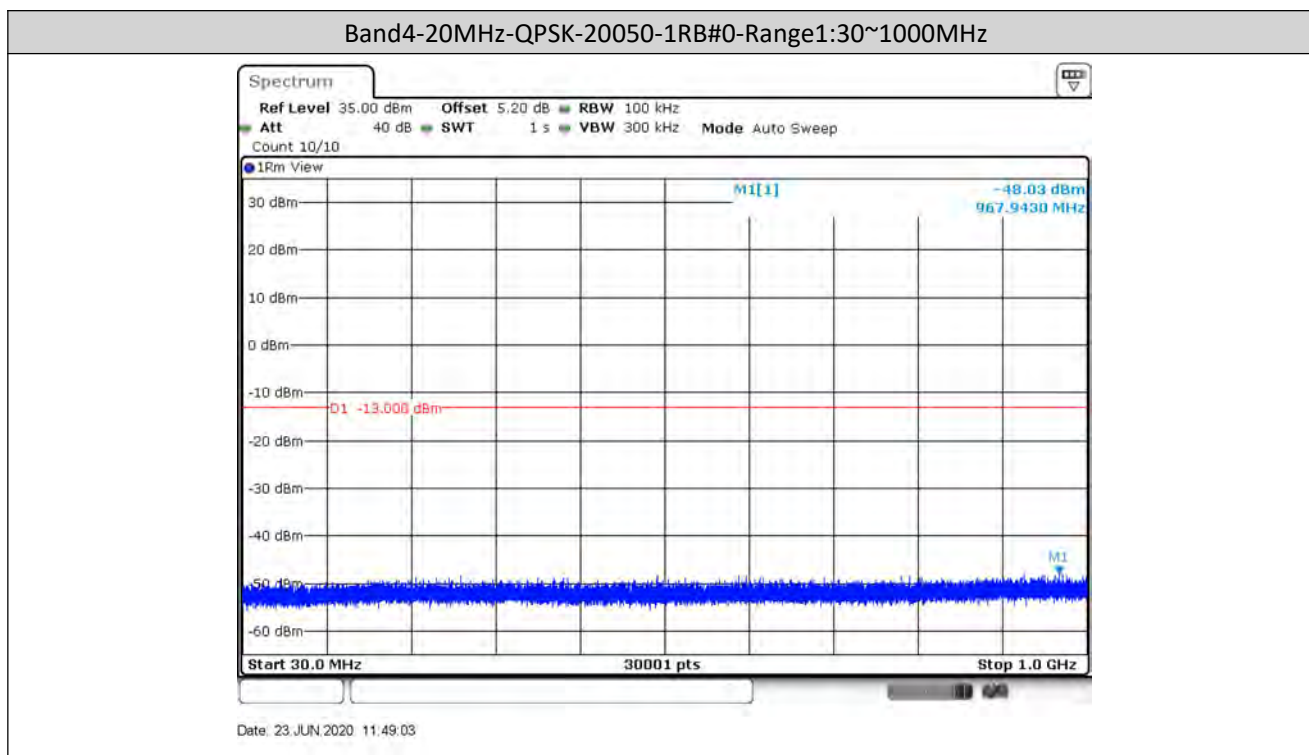


6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k \cdot (\text{Span} / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.

6.1. Test Plots



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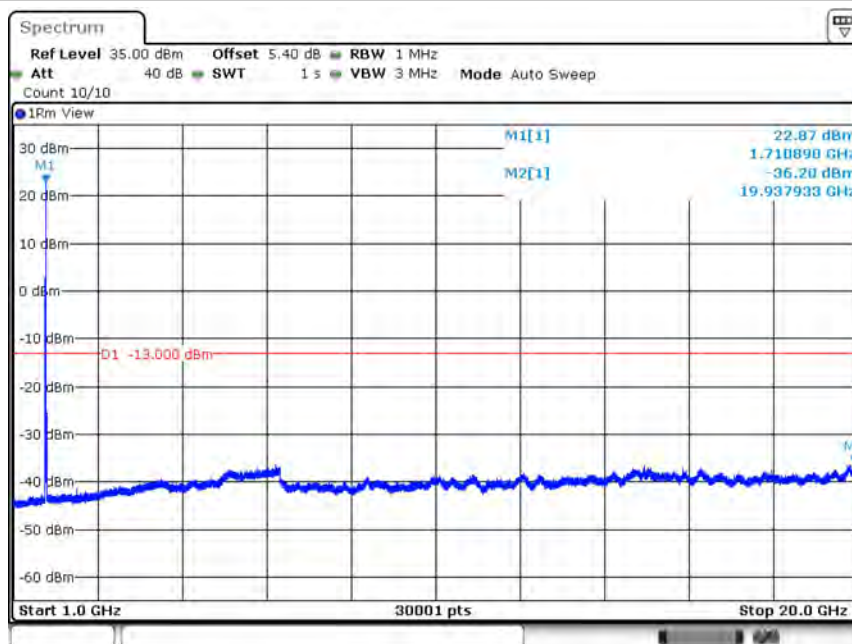
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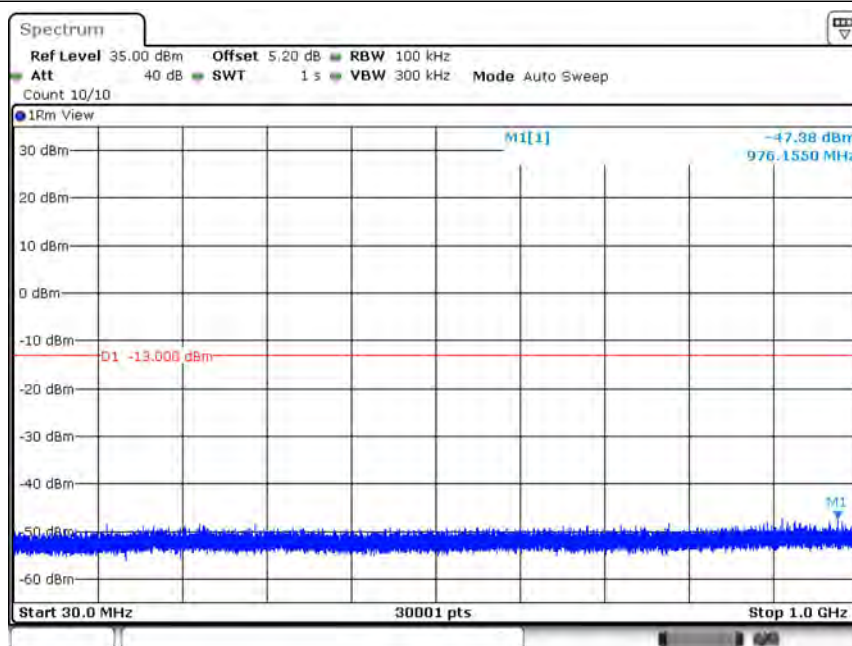


Band4-20MHz-QPSK-20050-1RB#0-Range2:1000~20000MHz



Date: 23 JUN 2020 11:49:20

Band4-20MHz-QPSK-20175-1RB#0-Range1:30~1000MHz



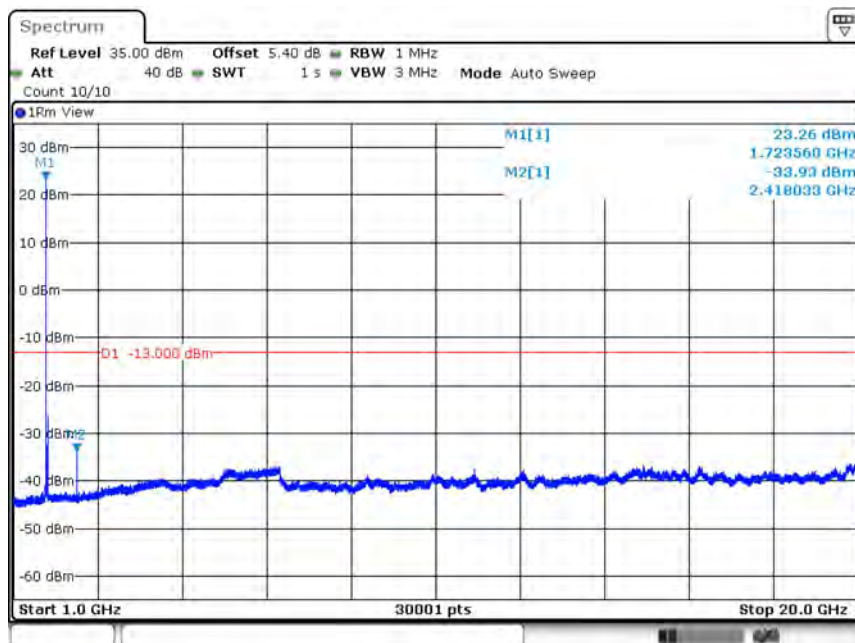
Date: 23 JUN 2020 11:50:14

Band4-20MHz-QPSK-20175-1RB#0-Range2:1000~20000MHz



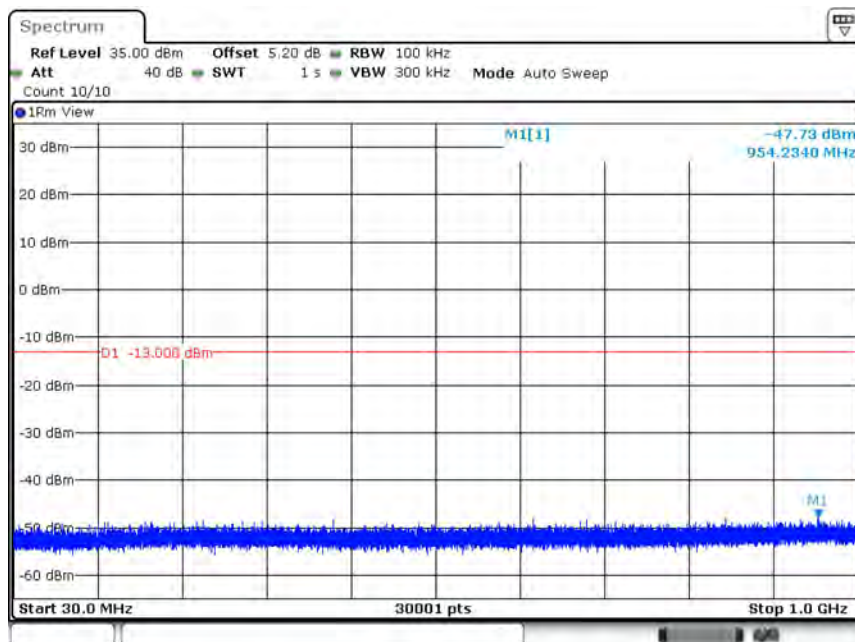
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Band4-20MHz-QPSK-20300-1RB#0-Range1:30~1000MHz



Date: 23 JUN 2020 11:51:24

Band4-20MHz-QPSK-20300-1RB#0-Range2:1000~20000MHz

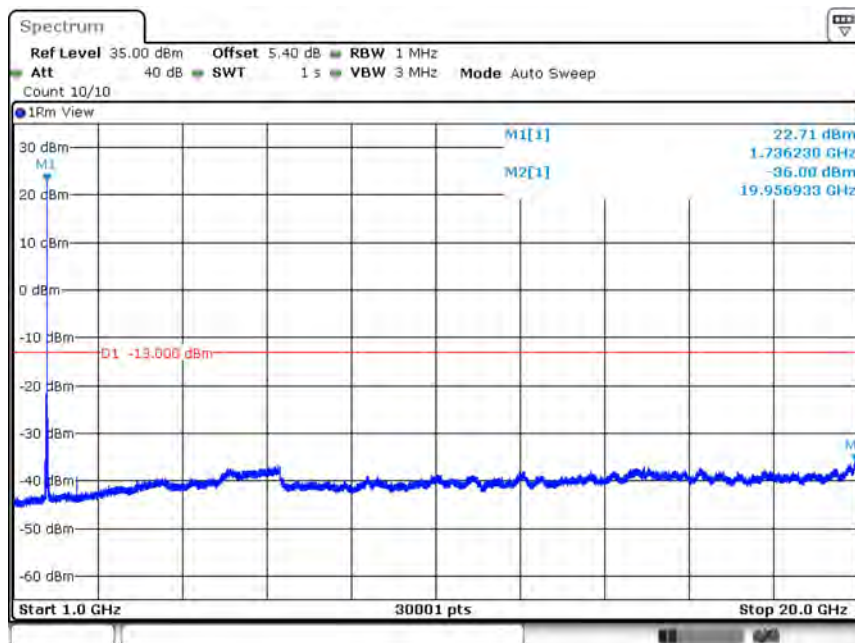


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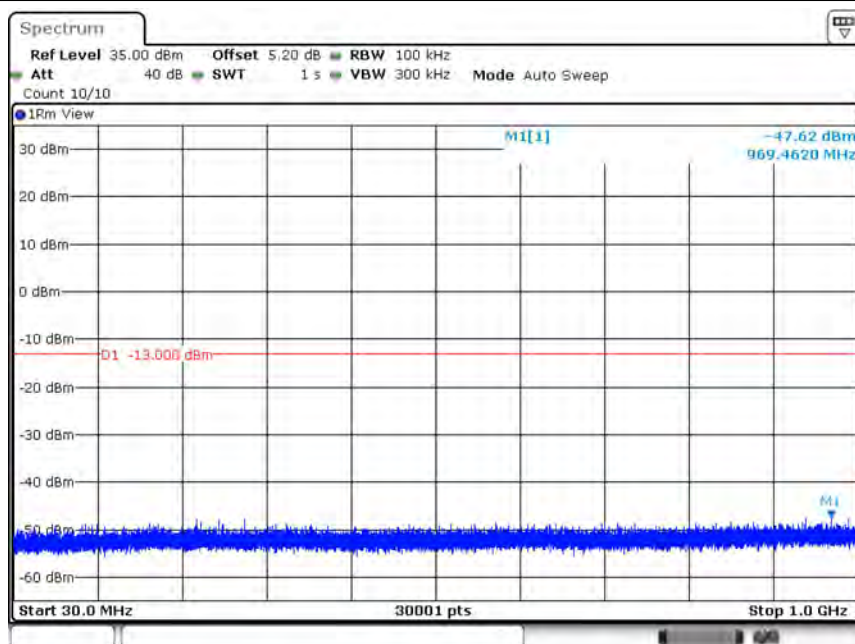
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Band4-20MHz-64QAM-20050-1RB#0-Range1:30~1000MHz



Date: 24 JUN 2020 02:12:22

Band4-20MHz-64QAM-20050-1RB#0-Range2:1000~20000MHz

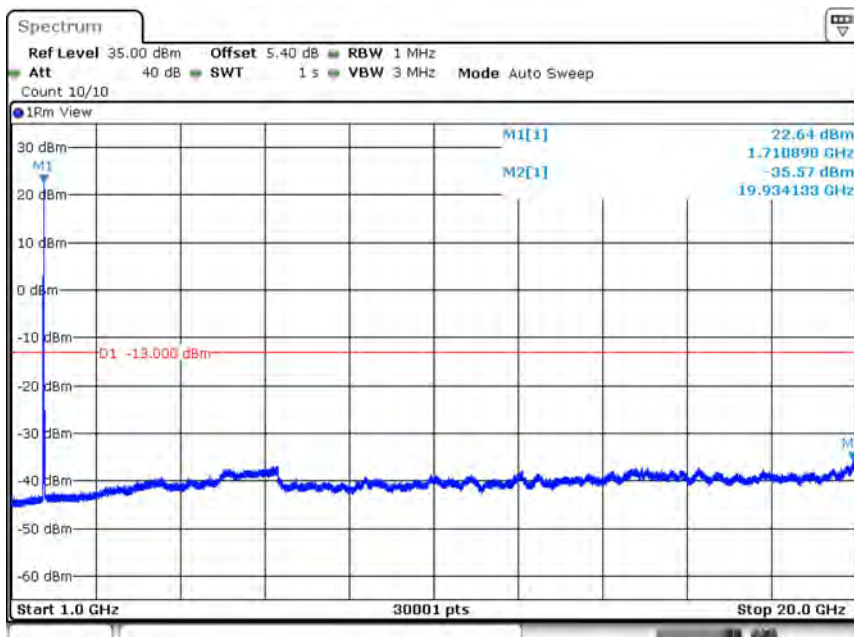


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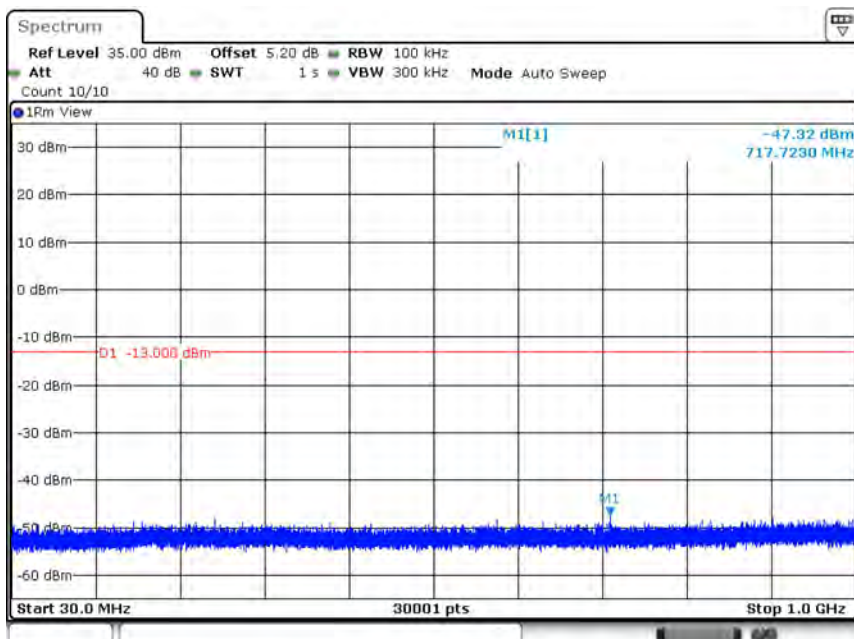
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Band4-20MHz-64QAM-20175-1RB#0-Range2:1000~20000MHz

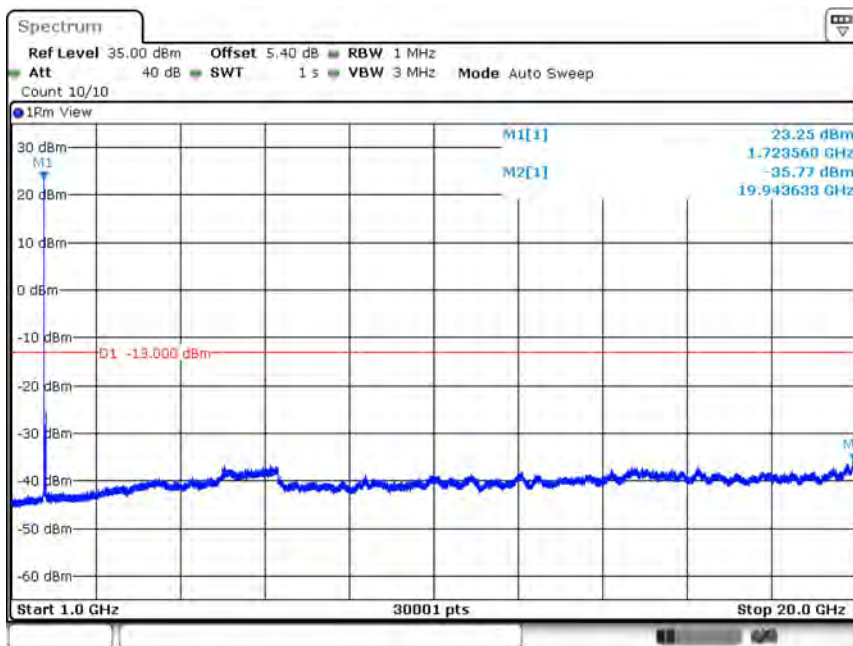


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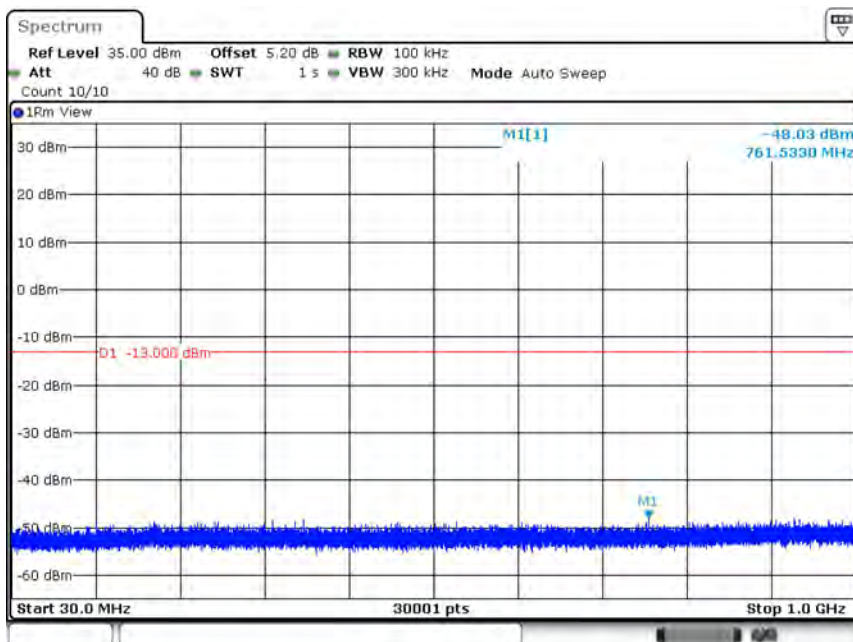
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Band4-20MHz-64QAM-20300-1RB#0-Range1:30~1000MHz



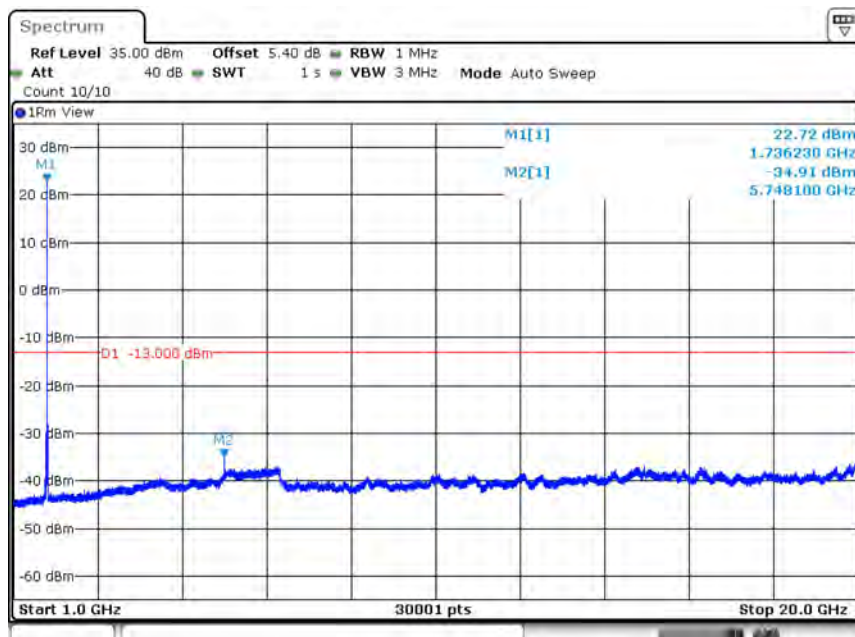
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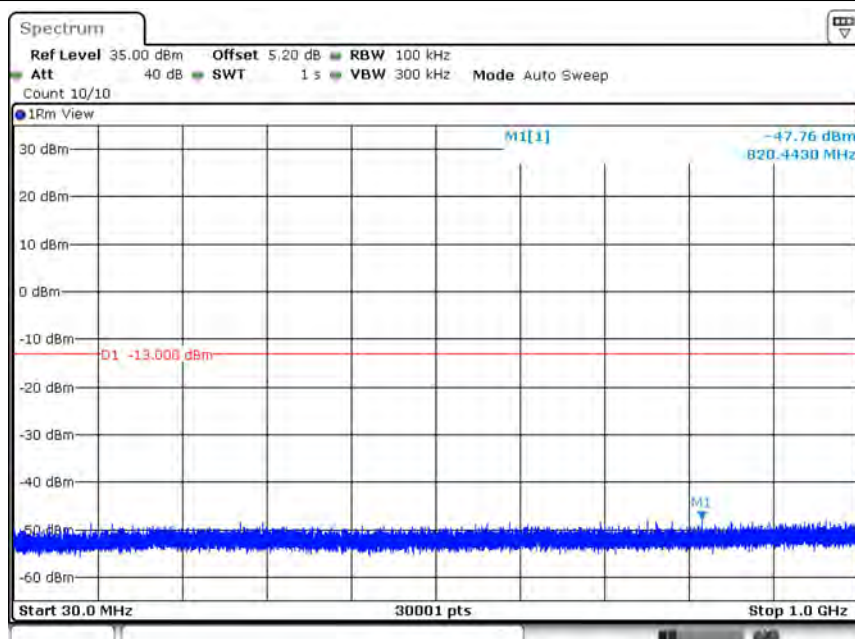
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Date: 24 JUN 2020 02:13:48

Band4-20MHz-16QAM-20050-1RB#0-Range1:30~1000MHz

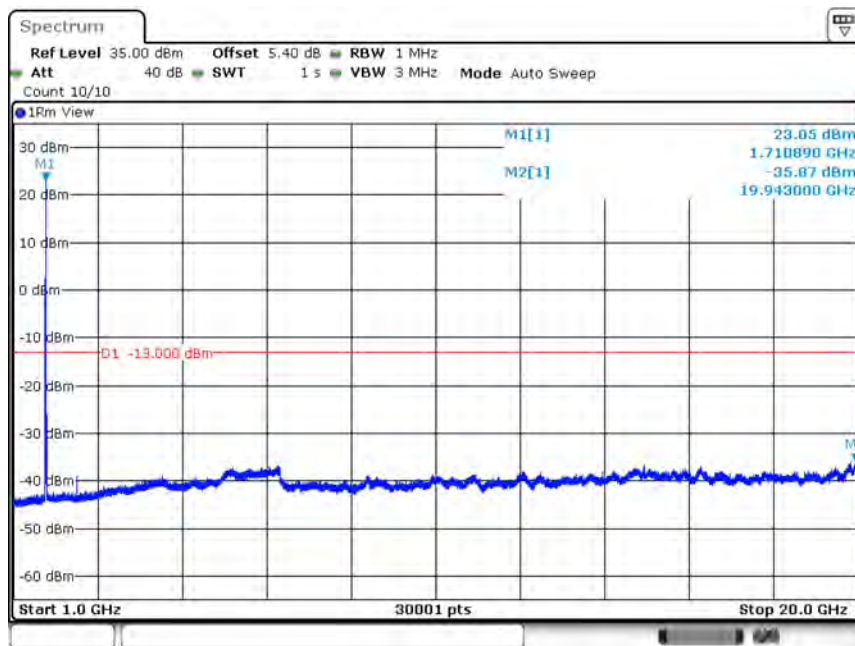


Date: 23 JUN 2020 11:49:38

Band4-20MHz-16QAM-20050-1RB#0-Range2:1000~20000MHz

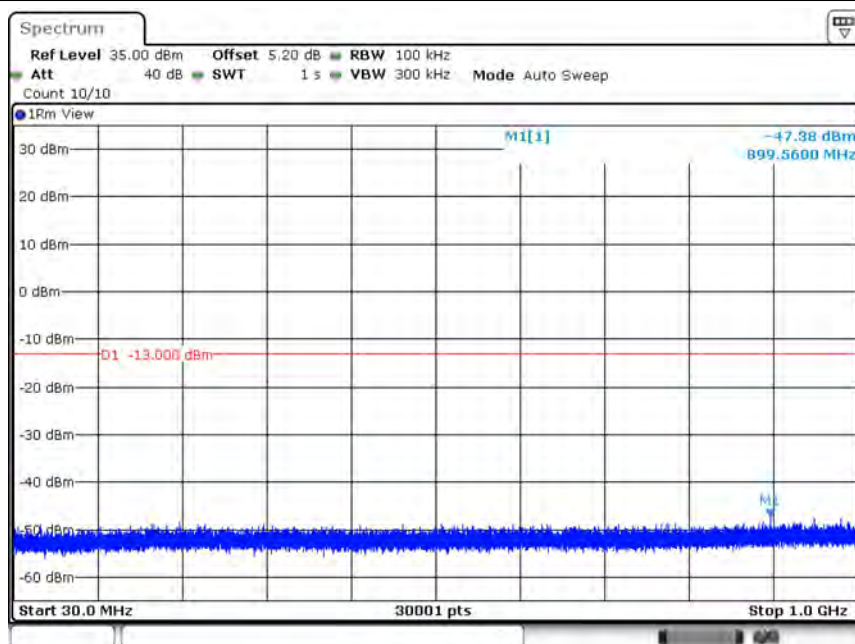


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Date: 23 JUN 2020 11:49:55

Band4-20MHz-16QAM-20175-1RB#0-Range1:30~1000MHz



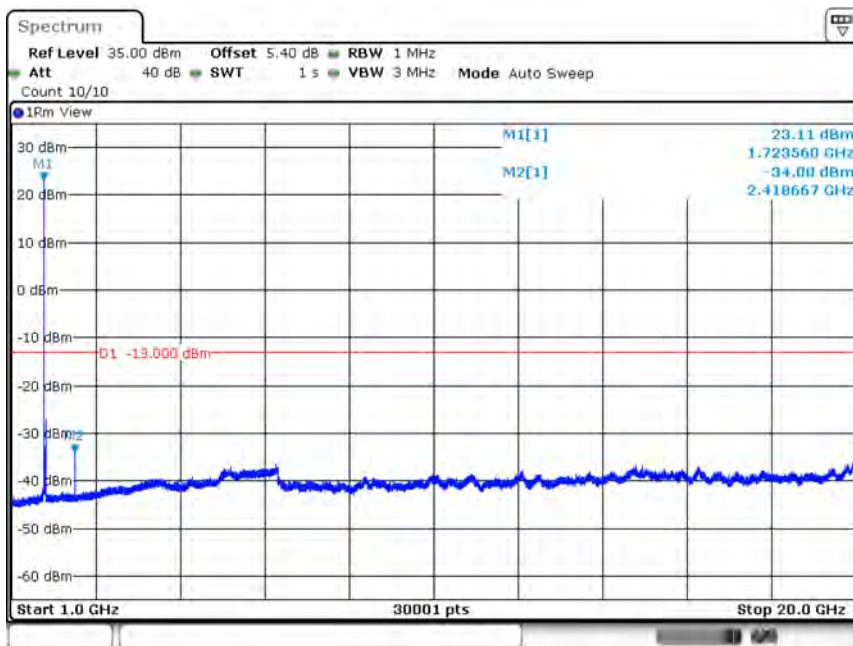
Date: 23 JUN 2020 11:50:49

Band4-20MHz-16QAM-20175-1RB#0-Range2:1000~20000MHz



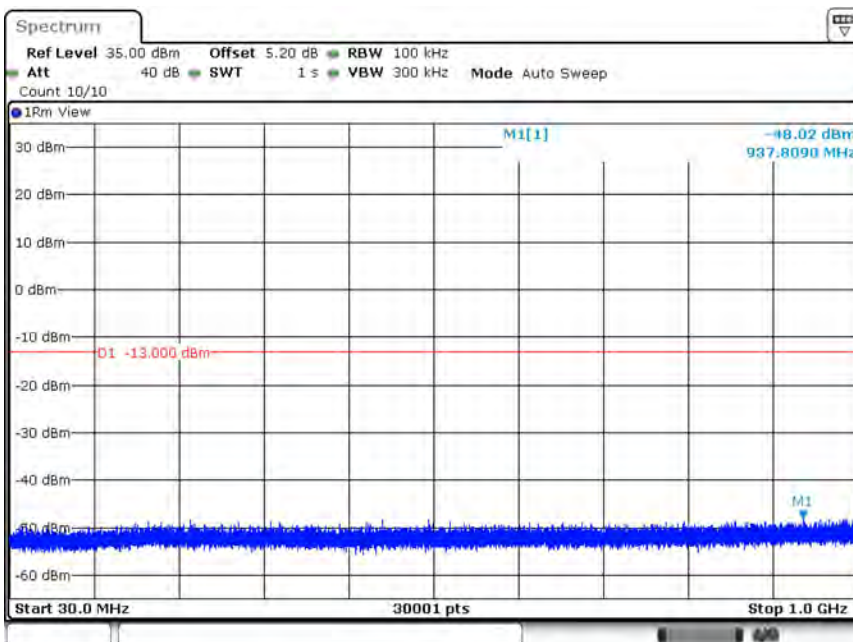
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Date: 23 JUN 2020 11:51:05

Band4-20MHz-16QAM-20300-1RB#0-Range1:30~1000MHz



Date: 23 JUN 2020 11:51:59

Band4-20MHz-16QAM-20300-1RB#0-Range2:1000~20000MHz

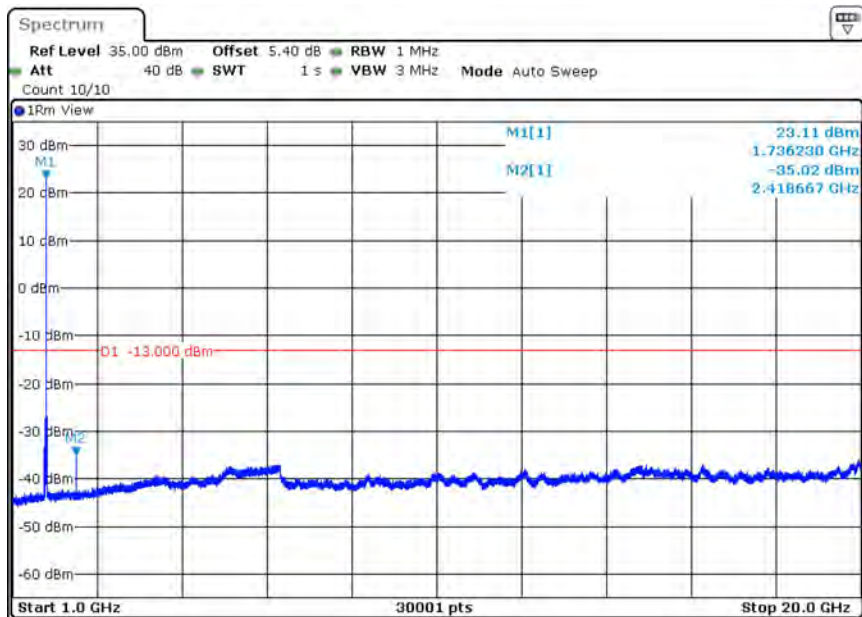


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Date: 23 JUN 2020 11:52:15



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7. Field Strength of Spurious Radiation

7.1. Test Band = LTE_Band=2 BW=20MHz_TM1

7.1.1. Test Channel = 18700

Suspected Data List

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	43.2897	-71.52	-64.59	-13.00	51.59	174	39	Horizontal
2	616.3943	-71.71	-63.99	-13.00	50.99	185	102	Horizontal
3	2696.3393	-69.28	-36.45	-13.00	23.45	196	58	Horizontal
4	3702.0234	-51.77	-60.33	-13.00	47.33	231	39	Horizontal
5	5553.5851	-45.33	-51.47	-13.00	38.47	262	135	Horizontal
6	16395.4465	-58.36	-43.99	-13.00	30.99	291	353	Horizontal



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7.2. Test Band = LTE_Band=2 BW=20MHz _TM1

7.2.1. Test Channel = 18700

Suspected Data List

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	115.1218	-70.97	-65.01	-13.00	52.01	258	291	Vertical
2	2703.1406	-69.42	-37.79	-13.00	24.79	274	266	Vertical
3	3702.0234	-50.36	-59.72	-13.00	46.72	159	36	Vertical
4	5553.0851	-49.28	-55.84	-13.00	42.84	185	67	Vertical
5	14476.8826	-59.87	-47.55	-13.00	34.55	174	131	Vertical
6	17999.5000	-57.98	-40.11	-13.00	27.11	165	67	Vertical



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7.3. Test Band = LTE_Band=2 BW=20MHz_TM1

7.3.1. Test Channel = 18900

Suspected Data List

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.8645	-71.38	-64.58	-13.00	51.58	174	131	Horizontal
2	650.3460	-71.84	-63.97	-13.00	50.97	185	354	Horizontal
3	2695.5391	-69.23	-36.43	-13.00	23.43	196	123	Horizontal
4	3742.0247	-46.01	-54.46	-13.00	41.46	231	195	Horizontal
5	5613.0871	-48.07	-54.14	-13.00	41.14	258	163	Horizontal
6	16403.9468	-57.87	-43.52	-13.00	30.52	265	354	Horizontal



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7.4. Test Band = LTE_Band=2 BW=20MHz_TM1

7.4.1. Test Channel = 18900

Suspected Data List

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	109.6410	-71.09	-64.76	-13.00	51.76	258	259	Vertical
2	2695.9392	-69.31	-37.72	-13.00	24.72	245	59	Vertical
3	3742.0247	-47.44	-56.59	-13.00	43.59	152	163	Vertical
4	5613.5871	-49.15	-55.57	-13.00	42.57	132	67	Vertical
5	14453.8818	-59.73	-47.59	-13.00	34.59	261	195	Vertical
6	17995.9999	-57.65	-39.87	-13.00	26.87	194	67	Vertical



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7.5. Test Band = LTE_Band=2 BW=20MHz_TM1

7.5.1. Test Channel = 19100

Suspected Data List

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	45.0843	-71.81	-64.84	-13.00	51.84	147	323	Horizontal
2	765.3938	-72.62	-62.69	-13.00	49.69	185	355	Horizontal
3	2699.9400	-69.13	-36.20	-13.00	23.20	196	69	Horizontal
4	3782.5261	-45.21	-53.54	-13.00	40.54	321	194	Horizontal
5	5673.0891	-48.50	-54.49	-13.00	41.49	262	194	Horizontal
6	16391.4464	-58.20	-43.90	-13.00	30.90	291	291	Horizontal



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7.6. Test Band = LTE_Band=2 BW=20MHz _TM1

7.6.1. Test Channel = 19100

Suspected Data List

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	107.5554	-70.91	-65.07	-13.00	52.07	185	360	Vertical
2	2576.3153	-64.36	-34.92	-13.00	21.92	174	316	Vertical
3	3782.0261	-47.29	-56.23	-13.00	43.23	196	237	Vertical
4	5673.5891	-49.63	-56.25	-13.00	43.25	321	204	Vertical
5	14496.8832	-59.88	-47.40	-13.00	34.40	262	204	Vertical
6	17994.4998	-57.80	-40.06	-13.00	27.06	297	4	Vertical

Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.
- 3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.



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8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth h	Modulation	Channel l	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	VL	NT	0.00	0.000000	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VN	NT	3.30	0.001919	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VH	NT	6.00	0.003488	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	-4.70	-0.002713	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-3.30	-0.001905	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-13.40	-0.007734	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VL	NT	-0.40	-0.000229	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VN	NT	-3.90	-0.002235	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VH	NT	-6.50	-0.003725	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VL	NT	-12.40	-0.007209	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VN	NT	4.10	0.002384	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VH	NT	0.70	0.000407	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VL	NT	6.40	0.003694	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VN	NT	-16.90	-0.009755	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VH	NT	0.80	0.000462	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VL	NT	-6.80	-0.003897	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VN	NT	-5.50	-0.003152	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VH	NT	-2.10	-0.001203	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VL	NT	-3.20	-0.001860	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VN	NT	-2.50	-0.001453	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VH	NT	2.20	0.001279	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VL	NT	-9.80	-0.005657	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VN	NT	-1.40	-0.000808	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VH	NT	-1.60	-0.000924	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VL	NT	7.10	0.004069	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VN	NT	-2.40	-0.001375	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VH	NT	4.40	0.002521	±2.5	PASS



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8.2. Frequency Vs Temperature

Band	Bandwidth h	Modulation	Channel l	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	NV	-30	0.60	0.000349	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	-20	1.10	0.000640	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	0	-7.80	-0.004535	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	10	-11.90	-0.006919	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	20	-12.00	-0.006977	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	30	-6.50	-0.003779	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	40	-7.90	-0.004593	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	50	1.40	0.000814	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	-0.80	-0.000462	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-4.60	-0.002655	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-4.20	-0.002424	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-5.30	-0.003059	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	1.80	0.001039	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-10.40	-0.006003	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	1.10	0.000635	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-9.90	-0.005714	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-30	-8.40	-0.004814	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-20	-1.90	-0.001089	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	0	-2.10	-0.001203	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	10	-4.50	-0.002579	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	20	3.40	0.001948	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	30	-3.50	-0.002006	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	40	-7.10	-0.004069	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	50	-0.80	-0.000458	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	-30	6.30	0.003663	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	-20	-8.50	-0.004942	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	0	0.50	0.000291	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	10	-10.20	-0.005930	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	20	1.00	0.000581	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	30	-8.70	-0.005058	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	40	-13.80	-0.008023	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	50	-6.00	-0.003488	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	-30	0.50	0.000289	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	-20	1.00	0.000577	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	0	-19.00	-0.010967	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	10	-10.60	-0.006118	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	20	-6.70	-0.003867	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	30	8.80	0.005079	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	40	1.30	0.000750	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	50	0.40	0.000231	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	-30	-4.10	-0.002350	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	-20	-5.20	-0.002980	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	0	4.00	0.002292	±2.5	PASS



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Band4	20MHz	64QAM	20300	100RB#0	NV	10	-3.50	-0.002006	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	20	-13.60	-0.007794	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	30	-0.60	-0.000344	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	40	-2.50	-0.001433	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	50	0.70	0.000401	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-30	-5.80	-0.003372	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-20	-6.80	-0.003953	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	0	-1.80	-0.001047	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	10	-2.70	-0.001570	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	20	-8.50	-0.004942	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	30	-7.90	-0.004593	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	40	-2.00	-0.001163	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	50	1.10	0.000640	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-30	-5.60	-0.003232	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-20	-0.90	-0.000519	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	0	-8.40	-0.004848	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	10	-9.20	-0.005310	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	20	-6.10	-0.003521	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	30	-14.60	-0.008427	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	40	-8.80	-0.005079	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	50	1.60	0.000924	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-30	-11.10	-0.006361	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-20	-11.90	-0.006819	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	0	-12.00	-0.006877	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	10	-5.30	-0.003037	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	20	1.90	0.001089	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	30	-8.70	-0.004986	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	40	-3.90	-0.002235	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	50	-3.80	-0.002178	±2.5	PASS



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