



Appendix B

E-UTRA Band 4



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CONTENT

1 EFFECTIVE (ISOTROPIC) RADIATED POWER.....3

1.1. TEST RESULT.....3

2. PEAK-TO-AVERAGE RATIO (CCDF).....15

2.1. TEST RESULT.....15

2.2. TEST PLOTS.....15

3. MODULATION CHARACTERISTICS.....20

3.1. TEST MODE = LTE /TM1 20MHZ.....20

3.1.1. TEST CHANNEL = MCH.....20

3.2. TEST MODE = LTE /TM2 20MHZ.....21

3.2.1. TEST CHANNEL = MCH.....21

3.3. TEST MODE = LTE /TM3 20MHZ.....22

3.3.1. TEST CHANNEL = MCH.....22

4. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH.....23

4.1. TEST RESULT.....23

4.2. TEST PLOTS.....25

5. BAND EDGE COMPLIANCE.....53

5.1. TEST RESULT.....53

5.2. TEST PLOTS.....55

6. SPURIOUS EMISSION AT ANTENNA TERMINAL.....92

6.1. TEST PLOTS.....93

7. FIELD STRENGTH OF SPURIOUS RADIATION.....102

7.1. TEST MODE =LTE/TM1 20MHZ.....102

7.1.1. TEST CHANNEL = LCH.....102

7.1.2. TEST CHANNEL = MCH.....102

7.1.3. TEST CHANNEL = HCH.....103

8. FREQUENCY STABILITY.....104

8.1. FREQUENCY VS VOLTAGE.....104

8.2. FREQUENCY VS TEMPERATURE.....105



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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#2	23.4	17.97	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	23.55	18.12	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#0	23.37	17.94	30	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	23.57	18.14	30	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	23.67	18.24	30	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	23.46	18.03	30	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.44	17.01	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.34	17.91	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.37	17.94	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.22	17.79	30	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	23.39	17.96	30	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	23.45	18.02	30	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	23.3	17.87	30	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	22.36	16.93	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.24	17.81	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.15	17.72	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.08	17.65	30	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	23.19	17.76	30	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	23.35	17.92	30	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	23.22	17.79	30	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.29	16.86	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	21.53	16.1	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#2	21.5	16.07	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#5	21.55	16.12	30	PASS
Band4	1.4MHz	64QAM	19957	3RB#3	21.07	15.64	30	PASS
Band4	1.4MHz	64QAM	19957	3RB#0	21	15.57	30	PASS
Band4	1.4MHz	64QAM	19957	3RB#1	21.01	15.58	30	PASS



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Band4	1.4MHz	64QAM	19957	6RB#0	20.61	15.18	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#5	21.43	16	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#2	21.47	16.04	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	21.25	15.82	30	PASS
Band4	1.4MHz	64QAM	20175	3RB#3	21.08	15.65	30	PASS
Band4	1.4MHz	64QAM	20175	3RB#1	21.01	15.58	30	PASS
Band4	1.4MHz	64QAM	20175	3RB#0	20.96	15.53	30	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	20.32	14.89	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	21.31	15.88	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	21.1	15.67	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#2	21.02	15.59	30	PASS
Band4	1.4MHz	64QAM	20393	3RB#3	21.01	15.58	30	PASS
Band4	1.4MHz	64QAM	20393	3RB#0	20.86	15.43	30	PASS
Band4	1.4MHz	64QAM	20393	3RB#1	20.91	15.48	30	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	20.08	14.65	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.32	16.89	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.75	17.32	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.76	17.33	30	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	22.51	17.08	30	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	22.43	17	30	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	22.47	17.04	30	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	21.56	16.13	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	22.77	17.34	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.67	17.24	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	22.33	16.9	30	PASS
Band4	1.4MHz	16QAM	20175	3RB#1	22.45	17.02	30	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	22.52	17.09	30	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	22.4	16.97	30	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.55	16.12	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.41	16.98	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.54	17.11	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.11	16.68	30	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	22.26	16.83	30	PASS



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Band4	1.4MHz	16QAM	20393	3RB#3	22.35	16.92	30	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	22.22	16.79	30	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.25	15.82	30	PASS
Band4	3MHz	QPSK	19965	1RB#8	23.32	17.89	30	PASS
Band4	3MHz	QPSK	19965	1RB#14	23.66	18.23	30	PASS
Band4	3MHz	QPSK	19965	1RB#0	23.27	17.84	30	PASS
Band4	3MHz	QPSK	19965	8RB#4	22.48	17.05	30	PASS
Band4	3MHz	QPSK	19965	8RB#0	22.5	17.07	30	PASS
Band4	3MHz	QPSK	19965	8RB#7	22.52	17.09	30	PASS
Band4	3MHz	QPSK	19965	15RB#0	22.43	17	30	PASS
Band4	3MHz	QPSK	20175	1RB#0	23.4	17.97	30	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.71	18.28	30	PASS
Band4	3MHz	QPSK	20175	1RB#14	23.41	17.98	30	PASS
Band4	3MHz	QPSK	20175	8RB#0	22.4	16.97	30	PASS
Band4	3MHz	QPSK	20175	8RB#7	22.4	16.97	30	PASS
Band4	3MHz	QPSK	20175	8RB#4	22.35	16.92	30	PASS
Band4	3MHz	QPSK	20175	15RB#0	22.3	16.87	30	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.26	17.83	30	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.37	17.94	30	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.14	17.71	30	PASS
Band4	3MHz	QPSK	20385	8RB#0	22.22	16.79	30	PASS
Band4	3MHz	QPSK	20385	8RB#4	22.31	16.88	30	PASS
Band4	3MHz	QPSK	20385	8RB#7	22.17	16.74	30	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.23	16.8	30	PASS
Band4	3MHz	64QAM	19965	1RB#0	21.22	15.79	30	PASS
Band4	3MHz	64QAM	19965	1RB#8	21.15	15.72	30	PASS
Band4	3MHz	64QAM	19965	1RB#14	21.11	15.68	30	PASS
Band4	3MHz	64QAM	19965	8RB#0	20.32	14.89	30	PASS
Band4	3MHz	64QAM	19965	8RB#4	20.23	14.8	30	PASS
Band4	3MHz	64QAM	19965	8RB#7	20.25	14.82	30	PASS
Band4	3MHz	64QAM	19965	15RB#0	20.19	14.76	30	PASS
Band4	3MHz	64QAM	20175	1RB#14	21.18	15.75	30	PASS
Band4	3MHz	64QAM	20175	1RB#0	21.12	15.69	30	PASS



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Band4	3MHz	64QAM	20175	1RB#8	21.08	15.65	30	PASS
Band4	3MHz	64QAM	20175	8RB#0	20.25	14.82	30	PASS
Band4	3MHz	64QAM	20175	8RB#7	20.24	14.81	30	PASS
Band4	3MHz	64QAM	20175	8RB#4	20.2	14.77	30	PASS
Band4	3MHz	64QAM	20175	15RB#0	20.14	14.71	30	PASS
Band4	3MHz	64QAM	20385	1RB#0	21.12	15.69	30	PASS
Band4	3MHz	64QAM	20385	1RB#8	21.01	15.58	30	PASS
Band4	3MHz	64QAM	20385	1RB#14	21.02	15.59	30	PASS
Band4	3MHz	64QAM	20385	8RB#0	20.15	14.72	30	PASS
Band4	3MHz	64QAM	20385	8RB#4	20.13	14.7	30	PASS
Band4	3MHz	64QAM	20385	8RB#7	20.06	14.63	30	PASS
Band4	3MHz	64QAM	20385	15RB#0	20.07	14.64	30	PASS
Band4	3MHz	16QAM	19965	1RB#0	22.32	16.89	30	PASS
Band4	3MHz	16QAM	19965	1RB#8	22.5	17.07	30	PASS
Band4	3MHz	16QAM	19965	1RB#14	22.73	17.3	30	PASS
Band4	3MHz	16QAM	19965	8RB#7	21.58	16.15	30	PASS
Band4	3MHz	16QAM	19965	8RB#0	21.67	16.24	30	PASS
Band4	3MHz	16QAM	19965	8RB#4	21.63	16.2	30	PASS
Band4	3MHz	16QAM	19965	15RB#0	21.65	16.22	30	PASS
Band4	3MHz	16QAM	20175	1RB#8	22.93	17.5	30	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.95	17.52	30	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.53	17.1	30	PASS
Band4	3MHz	16QAM	20175	8RB#0	21.48	16.05	30	PASS
Band4	3MHz	16QAM	20175	8RB#4	21.58	16.15	30	PASS
Band4	3MHz	16QAM	20175	8RB#7	21.58	16.15	30	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.4	15.97	30	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.59	17.16	30	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.86	17.43	30	PASS
Band4	3MHz	16QAM	20385	1RB#0	22.47	17.04	30	PASS
Band4	3MHz	16QAM	20385	8RB#7	21.42	15.99	30	PASS
Band4	3MHz	16QAM	20385	8RB#4	21.42	15.99	30	PASS
Band4	3MHz	16QAM	20385	8RB#0	21.21	15.78	30	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.14	15.71	30	PASS



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Band4	5MHz	QPSK	19975	1RB#0	23.37	17.94	30	PASS
Band4	5MHz	QPSK	19975	1RB#12	23.18	17.75	30	PASS
Band4	5MHz	QPSK	19975	12RB#0	22.4	16.97	30	PASS
Band4	5MHz	QPSK	19975	12RB#13	22.44	17.01	30	PASS
Band4	5MHz	QPSK	19975	12RB#6	22.44	17.01	30	PASS
Band4	5MHz	QPSK	19975	25RB#0	22.43	17	30	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.14	17.71	30	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.4	17.97	30	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.07	17.64	30	PASS
Band4	5MHz	QPSK	20175	12RB#13	22.31	16.88	30	PASS
Band4	5MHz	QPSK	20175	12RB#6	22.37	16.94	30	PASS
Band4	5MHz	QPSK	20175	12RB#0	22.32	16.89	30	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.41	16.98	30	PASS
Band4	5MHz	QPSK	20375	1RB#24	22.97	17.54	30	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.25	17.82	30	PASS
Band4	5MHz	QPSK	20375	1RB#0	22.99	17.56	30	PASS
Band4	5MHz	QPSK	20375	12RB#13	22.28	16.85	30	PASS
Band4	5MHz	QPSK	20375	12RB#0	22.27	16.84	30	PASS
Band4	5MHz	QPSK	20375	12RB#6	22.17	16.74	30	PASS
Band4	5MHz	QPSK	20375	25RB#0	22.26	16.83	30	PASS
Band4	5MHz	64QAM	19975	1RB#24	21.21	15.78	30	PASS
Band4	5MHz	64QAM	19975	1RB#12	21.16	15.73	30	PASS
Band4	5MHz	64QAM	19975	1RB#0	21.14	15.71	30	PASS
Band4	5MHz	64QAM	19975	12RB#6	20.33	14.9	30	PASS
Band4	5MHz	64QAM	19975	12RB#13	20.28	14.85	30	PASS
Band4	5MHz	64QAM	19975	12RB#0	20.27	14.84	30	PASS
Band4	5MHz	64QAM	19975	25RB#0	20.2	14.77	30	PASS
Band4	5MHz	64QAM	20175	1RB#0	21.15	15.72	30	PASS
Band4	5MHz	64QAM	20175	1RB#12	21.1	15.67	30	PASS
Band4	5MHz	64QAM	20175	1RB#24	21.1	15.67	30	PASS
Band4	5MHz	64QAM	20175	12RB#6	20.25	14.82	30	PASS
Band4	5MHz	64QAM	20175	12RB#13	20.2	14.77	30	PASS



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Band4	5MHz	64QAM	20175	12RB#0	20.19	14.76	30	PASS
Band4	5MHz	64QAM	20175	25RB#0	20.17	14.74	30	PASS
Band4	5MHz	64QAM	20375	1RB#12	21.11	15.68	30	PASS
Band4	5MHz	64QAM	20375	1RB#0	20.99	15.56	30	PASS
Band4	5MHz	64QAM	20375	1RB#24	20.97	15.54	30	PASS
Band4	5MHz	64QAM	20375	12RB#6	20.14	14.71	30	PASS
Band4	5MHz	64QAM	20375	12RB#0	20.15	14.72	30	PASS
Band4	5MHz	64QAM	20375	12RB#13	20.04	14.61	30	PASS
Band4	5MHz	64QAM	20375	25RB#0	20.07	14.64	30	PASS
Band4	5MHz	16QAM	19975	1RB#12	22.5	17.07	30	PASS
Band4	5MHz	16QAM	19975	1RB#24	22.85	17.42	30	PASS
Band4	5MHz	16QAM	19975	1RB#0	22.38	16.95	30	PASS
Band4	5MHz	16QAM	19975	12RB#0	21.48	16.05	30	PASS
Band4	5MHz	16QAM	19975	12RB#13	21.48	16.05	30	PASS
Band4	5MHz	16QAM	19975	12RB#6	21.51	16.08	30	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.55	16.12	30	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.44	17.01	30	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.65	17.22	30	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.31	16.88	30	PASS
Band4	5MHz	16QAM	20175	12RB#6	21.29	15.86	30	PASS
Band4	5MHz	16QAM	20175	12RB#0	21.38	15.95	30	PASS
Band4	5MHz	16QAM	20175	12RB#13	21.31	15.88	30	PASS
Band4	5MHz	16QAM	20175	25RB#0	21.4	15.97	30	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.42	16.99	30	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.45	17.02	30	PASS
Band4	5MHz	16QAM	20375	1RB#0	22.28	16.85	30	PASS
Band4	5MHz	16QAM	20375	12RB#0	21.18	15.75	30	PASS
Band4	5MHz	16QAM	20375	12RB#13	21.2	15.77	30	PASS
Band4	5MHz	16QAM	20375	12RB#6	21.12	15.69	30	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.18	15.75	30	PASS
Band4	10MHz	QPSK	20000	1RB#49	23.5	18.07	30	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.52	18.09	30	PASS
Band4	10MHz	QPSK	20000	1RB#0	23.36	17.93	30	PASS



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Band4	10MHz	QPSK	20000	25RB#25	22.5	17.07	30	PASS
Band4	10MHz	QPSK	20000	25RB#0	22.52	17.09	30	PASS
Band4	10MHz	QPSK	20000	25RB#12	22.44	17.01	30	PASS
Band4	10MHz	QPSK	20000	50RB#0	22.45	17.02	30	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.42	17.99	30	PASS
Band4	10MHz	QPSK	20175	1RB#49	23.51	18.08	30	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.24	17.81	30	PASS
Band4	10MHz	QPSK	20175	25RB#0	22.44	17.01	30	PASS
Band4	10MHz	QPSK	20175	25RB#12	22.37	16.94	30	PASS
Band4	10MHz	QPSK	20175	25RB#25	22.38	16.95	30	PASS
Band4	10MHz	QPSK	20175	50RB#0	22.4	16.97	30	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.34	17.91	30	PASS
Band4	10MHz	QPSK	20350	1RB#0	23.34	17.91	30	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.15	17.72	30	PASS
Band4	10MHz	QPSK	20350	25RB#0	22.33	16.9	30	PASS
Band4	10MHz	QPSK	20350	25RB#25	22.29	16.86	30	PASS
Band4	10MHz	QPSK	20350	25RB#12	22.2	16.77	30	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.26	16.83	30	PASS
Band4	10MHz	64QAM	20000	1RB#0	21.22	15.79	30	PASS
Band4	10MHz	64QAM	20000	1RB#24	21.13	15.7	30	PASS
Band4	10MHz	64QAM	20000	1RB#49	21.12	15.69	30	PASS
Band4	10MHz	64QAM	20000	25RB#12	20.36	14.93	30	PASS
Band4	10MHz	64QAM	20000	25RB#0	20.23	14.8	30	PASS
Band4	10MHz	64QAM	20000	25RB#25	20.27	14.84	30	PASS
Band4	10MHz	64QAM	20000	50RB#0	20.24	14.81	30	PASS
Band4	10MHz	64QAM	20175	1RB#0	21.17	15.74	30	PASS
Band4	10MHz	64QAM	20175	1RB#49	21.11	15.68	30	PASS
Band4	10MHz	64QAM	20175	1RB#24	21.05	15.62	30	PASS
Band4	10MHz	64QAM	20175	25RB#12	20.26	14.83	30	PASS
Band4	10MHz	64QAM	20175	25RB#25	20.19	14.76	30	PASS
Band4	10MHz	64QAM	20175	25RB#0	20.19	14.76	30	PASS
Band4	10MHz	64QAM	20175	50RB#0	20.18	14.75	30	PASS
Band4	10MHz	64QAM	20350	1RB#49	21.08	15.65	30	PASS



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Band4	10MHz	64QAM	20350	1RB#0	20.97	15.54	30	PASS
Band4	10MHz	64QAM	20350	1RB#24	21.01	15.58	30	PASS
Band4	10MHz	64QAM	20350	25RB#12	20.17	14.74	30	PASS
Band4	10MHz	64QAM	20350	25RB#0	20.17	14.74	30	PASS
Band4	10MHz	64QAM	20350	25RB#25	20.05	14.62	30	PASS
Band4	10MHz	64QAM	20350	50RB#0	20.09	14.66	30	PASS
Band4	10MHz	16QAM	20000	1RB#0	22.92	17.49	30	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.82	17.39	30	PASS
Band4	10MHz	16QAM	20000	1RB#49	22.35	16.92	30	PASS
Band4	10MHz	16QAM	20000	25RB#25	21.57	16.14	30	PASS
Band4	10MHz	16QAM	20000	25RB#12	21.66	16.23	30	PASS
Band4	10MHz	16QAM	20000	25RB#0	21.59	16.16	30	PASS
Band4	10MHz	16QAM	20000	50RB#0	21.55	16.12	30	PASS
Band4	10MHz	16QAM	20175	1RB#49	22.62	17.19	30	PASS
Band4	10MHz	16QAM	20175	1RB#0	22.73	17.3	30	PASS
Band4	10MHz	16QAM	20175	1RB#24	22.69	17.26	30	PASS
Band4	10MHz	16QAM	20175	25RB#0	21.4	15.97	30	PASS
Band4	10MHz	16QAM	20175	25RB#12	21.44	16.01	30	PASS
Band4	10MHz	16QAM	20175	25RB#25	21.39	15.96	30	PASS
Band4	10MHz	16QAM	20175	50RB#0	21.38	15.95	30	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.5	17.07	30	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.86	17.43	30	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.41	16.98	30	PASS
Band4	10MHz	16QAM	20350	25RB#12	21.39	15.96	30	PASS
Band4	10MHz	16QAM	20350	25RB#0	21.38	15.95	30	PASS
Band4	10MHz	16QAM	20350	25RB#25	21.18	15.75	30	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.3	15.87	30	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.47	18.04	30	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.44	18.01	30	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.27	17.84	30	PASS
Band4	15MHz	QPSK	20025	36RB#18	22.42	16.99	30	PASS
Band4	15MHz	QPSK	20025	36RB#0	22.47	17.04	30	PASS
Band4	15MHz	QPSK	20025	36RB#39	22.48	17.05	30	PASS



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Band4	15MHz	QPSK	20025	75RB#0	22.41	16.98	30	PASS
Band4	15MHz	QPSK	20175	1RB#38	23.32	17.89	30	PASS
Band4	15MHz	QPSK	20175	1RB#74	23.46	18.03	30	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.22	17.79	30	PASS
Band4	15MHz	QPSK	20175	36RB#39	22.45	17.02	30	PASS
Band4	15MHz	QPSK	20175	36RB#18	22.44	17.01	30	PASS
Band4	15MHz	QPSK	20175	36RB#0	22.39	16.96	30	PASS
Band4	15MHz	QPSK	20175	75RB#0	22.42	16.99	30	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.19	17.76	30	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.21	17.78	30	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.19	17.76	30	PASS
Band4	15MHz	QPSK	20325	36RB#39	22.38	16.95	30	PASS
Band4	15MHz	QPSK	20325	36RB#0	22.41	16.98	30	PASS
Band4	15MHz	QPSK	20325	36RB#18	22.28	16.85	30	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.27	16.84	30	PASS
Band4	15MHz	64QAM	20025	1RB#38	21.17	15.74	30	PASS
Band4	15MHz	64QAM	20025	1RB#0	21.17	15.74	30	PASS
Band4	15MHz	64QAM	20025	1RB#74	21.16	15.73	30	PASS
Band4	15MHz	64QAM	20025	36RB#39	20.34	14.91	30	PASS
Band4	15MHz	64QAM	20025	36RB#18	20.25	14.82	30	PASS
Band4	15MHz	64QAM	20025	36RB#0	20.27	14.84	30	PASS
Band4	15MHz	64QAM	20025	75RB#0	20.24	14.81	30	PASS
Band4	15MHz	64QAM	20175	1RB#0	21.18	15.75	30	PASS
Band4	15MHz	64QAM	20175	1RB#38	21.12	15.69	30	PASS
Band4	15MHz	64QAM	20175	1RB#74	21.09	15.66	30	PASS
Band4	15MHz	64QAM	20175	36RB#0	20.28	14.85	30	PASS
Band4	15MHz	64QAM	20175	36RB#18	20.19	14.76	30	PASS
Band4	15MHz	64QAM	20175	36RB#39	20.23	14.8	30	PASS
Band4	15MHz	64QAM	20175	75RB#0	20.18	14.75	30	PASS
Band4	15MHz	64QAM	20325	1RB#74	21.08	15.65	30	PASS
Band4	15MHz	64QAM	20325	1RB#0	21.02	15.59	30	PASS
Band4	15MHz	64QAM	20325	1RB#38	21.01	15.58	30	PASS
Band4	15MHz	64QAM	20325	36RB#39	20.14	14.71	30	PASS



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Band4	15MHz	64QAM	20325	36RB#18	20.13	14.7	30	PASS
Band4	15MHz	64QAM	20325	36RB#0	20.05	14.62	30	PASS
Band4	15MHz	64QAM	20325	75RB#0	20.09	14.66	30	PASS
Band4	15MHz	16QAM	20025	1RB#0	22.47	17.04	30	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.59	17.16	30	PASS
Band4	15MHz	16QAM	20025	1RB#74	22.22	16.79	30	PASS
Band4	15MHz	16QAM	20025	36RB#39	21.47	16.04	30	PASS
Band4	15MHz	16QAM	20025	36RB#0	21.39	15.96	30	PASS
Band4	15MHz	16QAM	20025	36RB#18	21.45	16.02	30	PASS
Band4	15MHz	16QAM	20025	75RB#0	21.51	16.08	30	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.46	17.03	30	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.56	17.13	30	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.76	17.33	30	PASS
Band4	15MHz	16QAM	20175	36RB#0	21.38	15.95	30	PASS
Band4	15MHz	16QAM	20175	36RB#18	21.45	16.02	30	PASS
Band4	15MHz	16QAM	20175	36RB#39	21.3	15.87	30	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.34	15.91	30	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.33	16.9	30	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.65	17.22	30	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.14	16.71	30	PASS
Band4	15MHz	16QAM	20325	36RB#0	21.31	15.88	30	PASS
Band4	15MHz	16QAM	20325	36RB#18	21.33	15.9	30	PASS
Band4	15MHz	16QAM	20325	36RB#39	21.27	15.84	30	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.32	15.89	30	PASS
Band4	20MHz	QPSK	20050	1RB#0	23.3	17.87	30	PASS
Band4	20MHz	QPSK	20050	1RB#99	23.38	17.95	30	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.17	17.74	30	PASS
Band4	20MHz	QPSK	20050	50RB#50	22.38	16.95	30	PASS
Band4	20MHz	QPSK	20050	50RB#25	22.39	16.96	30	PASS
Band4	20MHz	QPSK	20050	50RB#0	22.5	17.07	30	PASS
Band4	20MHz	QPSK	20050	100RB#0	22.4	16.97	30	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.26	17.83	30	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.37	17.94	30	PASS



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Band4	20MHz	QPSK	20175	50RB#25	22.28	16.85	30	PASS
Band4	20MHz	QPSK	20175	50RB#50	22.44	17.01	30	PASS
Band4	20MHz	QPSK	20175	50RB#0	22.34	16.91	30	PASS
Band4	20MHz	QPSK	20175	100RB#0	22.33	16.9	30	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.19	17.76	30	PASS
Band4	20MHz	QPSK	20300	1RB#0	23.26	17.83	30	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.06	17.63	30	PASS
Band4	20MHz	QPSK	20300	50RB#0	22.36	16.93	30	PASS
Band4	20MHz	QPSK	20300	50RB#50	22.3	16.87	30	PASS
Band4	20MHz	QPSK	20300	50RB#25	22.24	16.81	30	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.25	16.82	30	PASS
Band4	20MHz	64QAM	20050	1RB#99	21.32	15.89	30	PASS
Band4	20MHz	64QAM	20050	1RB#49	21.28	15.85	30	PASS
Band4	20MHz	64QAM	20050	1RB#0	21.26	15.83	30	PASS
Band4	20MHz	64QAM	20050	50RB#50	20.46	15.03	30	PASS
Band4	20MHz	64QAM	20050	50RB#25	20.38	14.95	30	PASS
Band4	20MHz	64QAM	20050	50RB#0	20.37	14.94	30	PASS
Band4	20MHz	64QAM	20050	100RB#0	20.34	14.91	30	PASS
Band4	20MHz	64QAM	20175	1RB#0	21.28	15.85	30	PASS
Band4	20MHz	64QAM	20175	1RB#49	21.24	15.81	30	PASS
Band4	20MHz	64QAM	20175	1RB#99	21.2	15.77	30	PASS
Band4	20MHz	64QAM	20175	50RB#25	20.4	14.97	30	PASS
Band4	20MHz	64QAM	20175	50RB#0	20.34	14.91	30	PASS
Band4	20MHz	64QAM	20175	50RB#50	20.34	14.91	30	PASS
Band4	20MHz	64QAM	20175	100RB#0	20.29	14.86	30	PASS
Band4	20MHz	64QAM	20300	1RB#99	21.23	15.8	30	PASS
Band4	20MHz	64QAM	20300	1RB#49	21.12	15.69	30	PASS
Band4	20MHz	64QAM	20300	1RB#0	21.12	15.69	30	PASS
Band4	20MHz	64QAM	20300	50RB#25	20.29	14.86	30	PASS
Band4	20MHz	64QAM	20300	50RB#50	20.28	14.85	30	PASS
Band4	20MHz	64QAM	20300	50RB#0	20.18	14.75	30	PASS
Band4	20MHz	64QAM	20300	100RB#0	20.19	14.76	30	PASS



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Band4	20MHz	16QAM	20050	1RB#99	22.42	16.99	30	PASS
Band4	20MHz	16QAM	20050	1RB#0	23.02	17.59	30	PASS
Band4	20MHz	16QAM	20050	1RB#49	22.41	16.98	30	PASS
Band4	20MHz	16QAM	20050	50RB#25	21.46	16.03	30	PASS
Band4	20MHz	16QAM	20050	50RB#0	21.46	16.03	30	PASS
Band4	20MHz	16QAM	20050	50RB#50	21.39	15.96	30	PASS
Band4	20MHz	16QAM	20050	100RB#0	21.36	15.93	30	PASS
Band4	20MHz	16QAM	20175	1RB#99	22.35	16.92	30	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.48	17.05	30	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.65	17.22	30	PASS
Band4	20MHz	16QAM	20175	50RB#50	21.35	15.92	30	PASS
Band4	20MHz	16QAM	20175	50RB#25	21.4	15.97	30	PASS
Band4	20MHz	16QAM	20175	50RB#0	21.35	15.92	30	PASS
Band4	20MHz	16QAM	20175	100RB#0	21.31	15.88	30	PASS
Band4	20MHz	16QAM	20300	1RB#0	22.75	17.32	30	PASS
Band4	20MHz	16QAM	20300	1RB#99	22.65	17.22	30	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.25	16.82	30	PASS
Band4	20MHz	16QAM	20300	50RB#50	21.39	15.96	30	PASS
Band4	20MHz	16QAM	20300	50RB#25	21.36	15.93	30	PASS
Band4	20MHz	16QAM	20300	50RB#0	21.25	15.82	30	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.22	15.79	30	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,
 $ERP [dBm] = \text{Conducted Power} [dBm] + \text{Gain} [dBd]$
 $EIRP [dBm] = \text{Conducted Power} [dBm] + \text{Gain} [dBi]$



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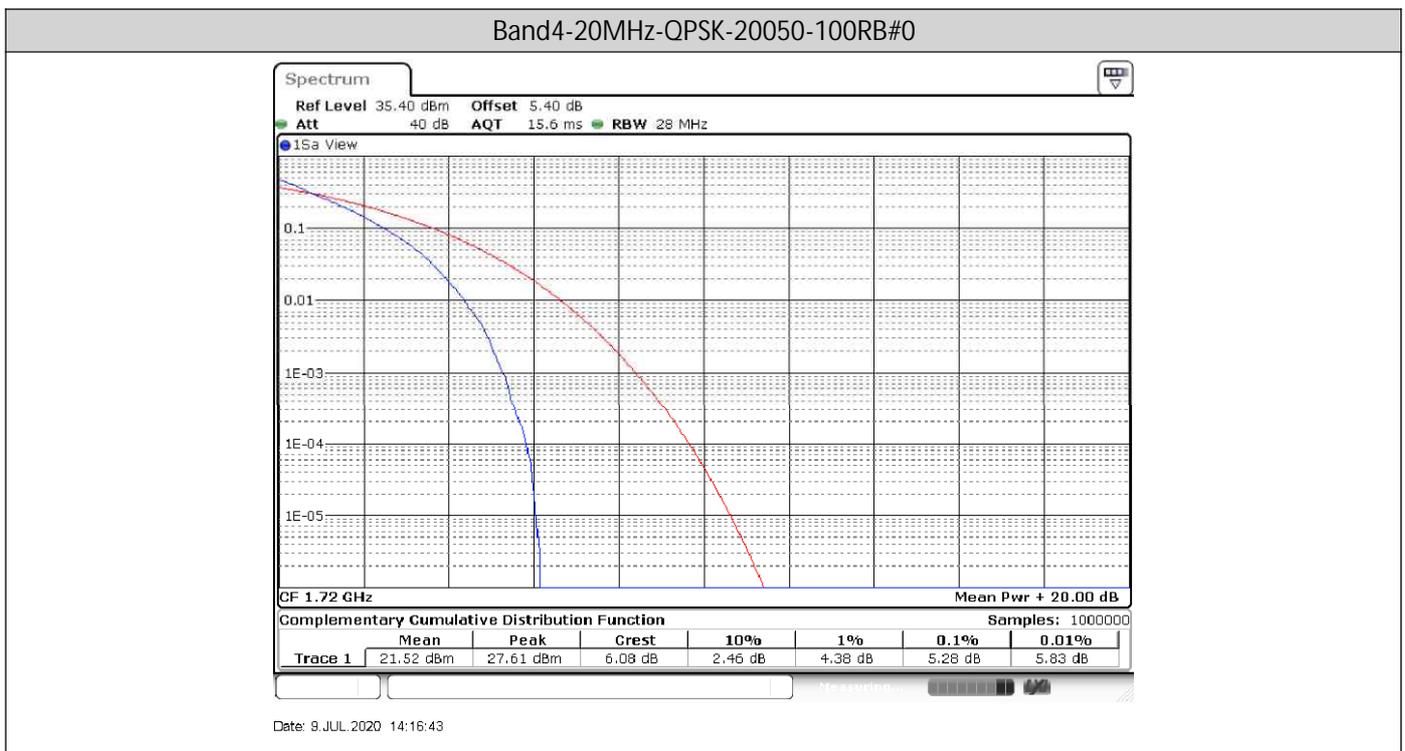


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

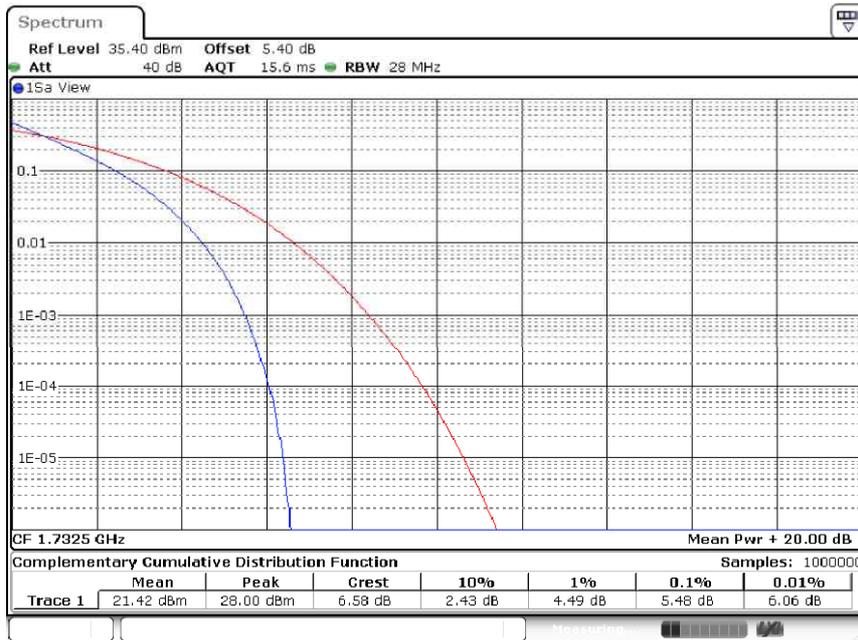
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	5.28	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.48	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.13	13	PASS
Band4	20MHz	64QAM	20050	100RB#0	6.46	13	PASS
Band4	20MHz	64QAM	20175	100RB#0	6.38	13	PASS
Band4	20MHz	64QAM	20300	100RB#0	6.20	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	6.09	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	6.29	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	5.97	13	PASS

2.2. Test Plots



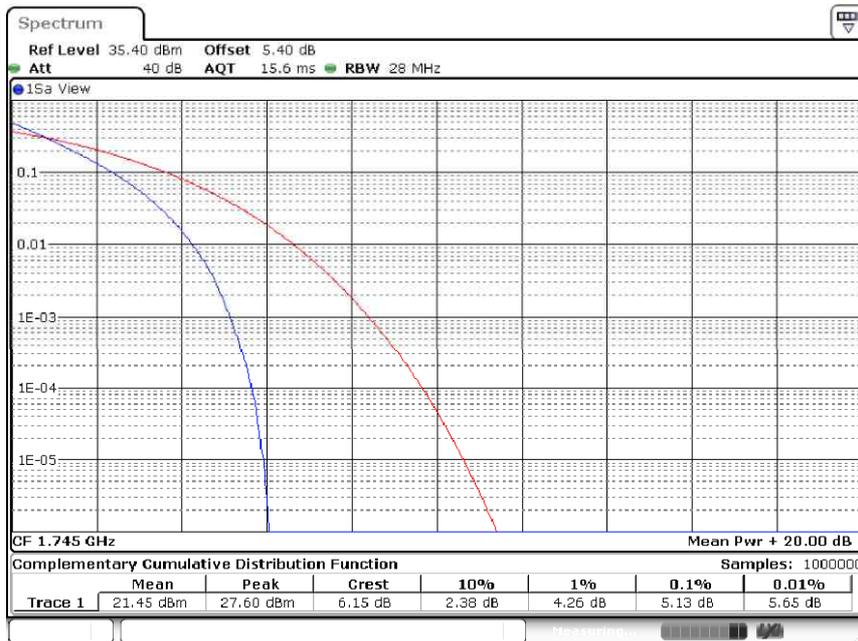
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Band4-20MHz-QPSK-20175-100RB#0



Date: 9.JUL.2020 14:17:06

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



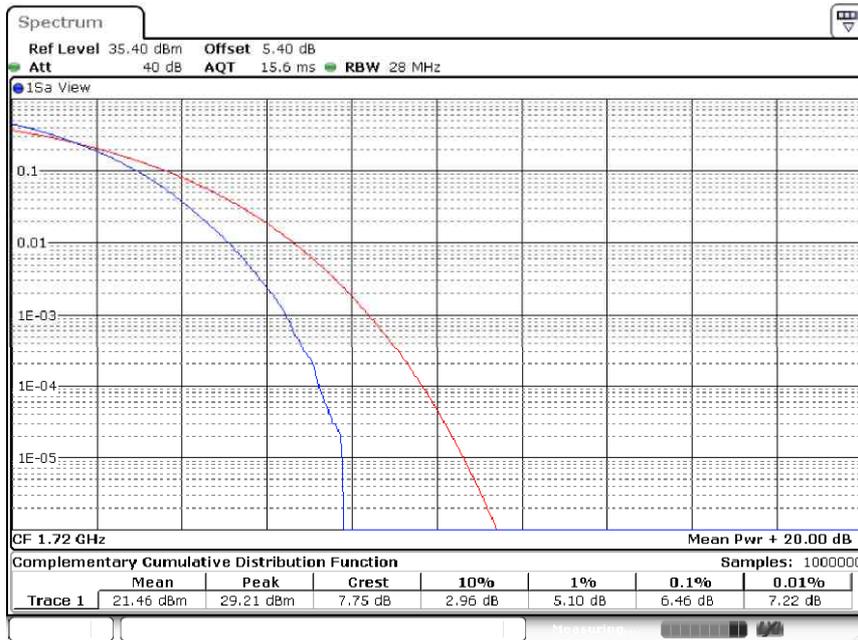
Date: 9.JUL.2020 14:17:28



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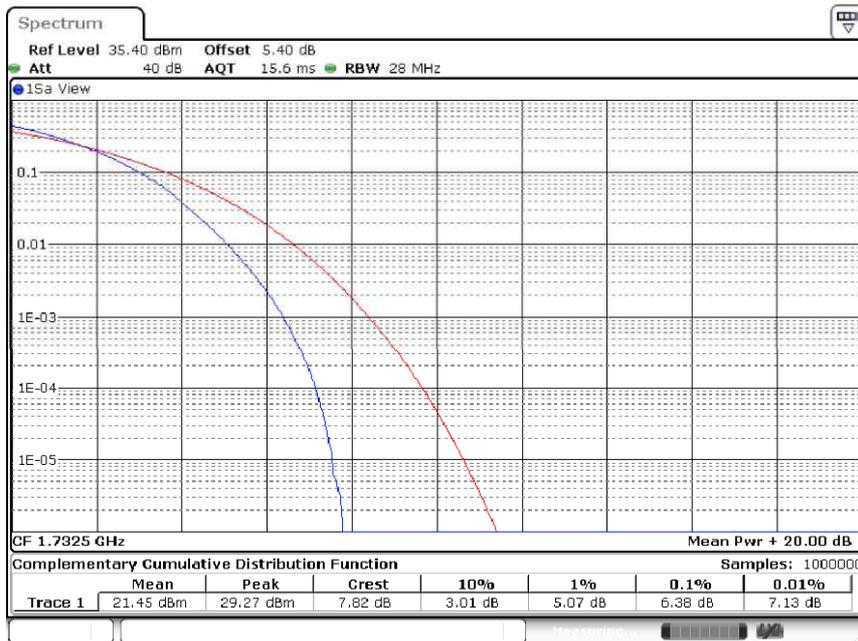


Band4-20MHz-64QAM-20050-100RB#0



Date: 14.JUL.2020 07:13:31

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



Date: 14.JUL.2020 07:13:43

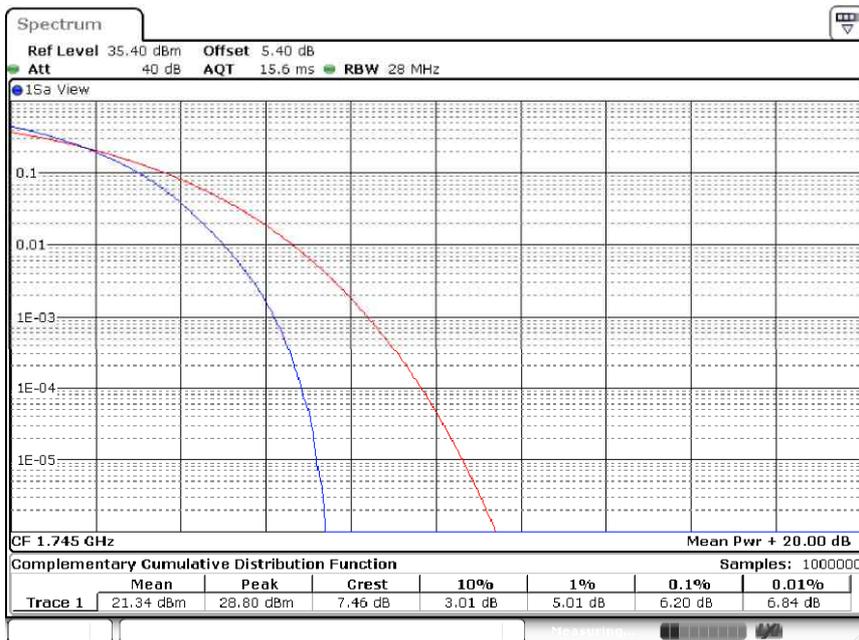


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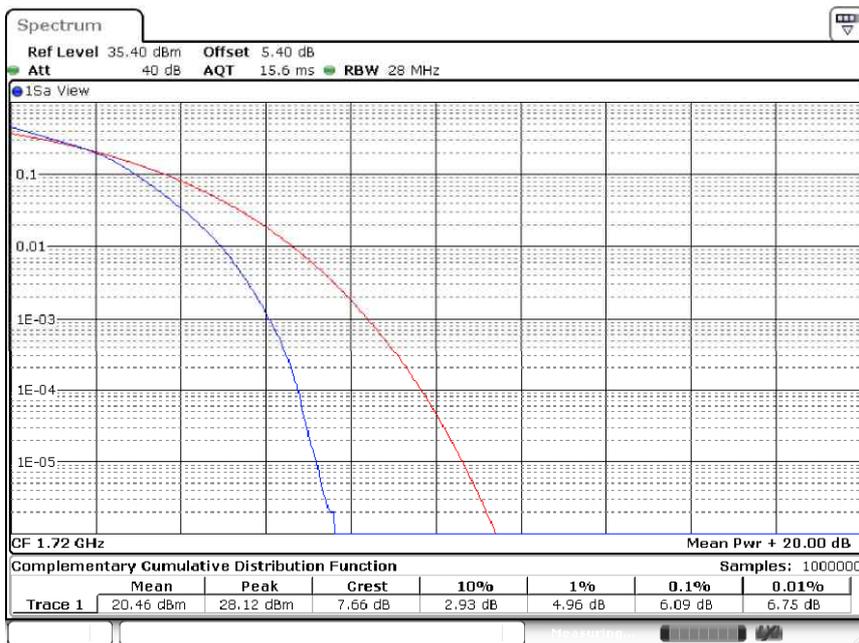


Band4-20MHz-64QAM-20300-100RB#0



Date: 14.JUL.2020 07:13:54

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



Date: 9.JUL.2020 14:16:54



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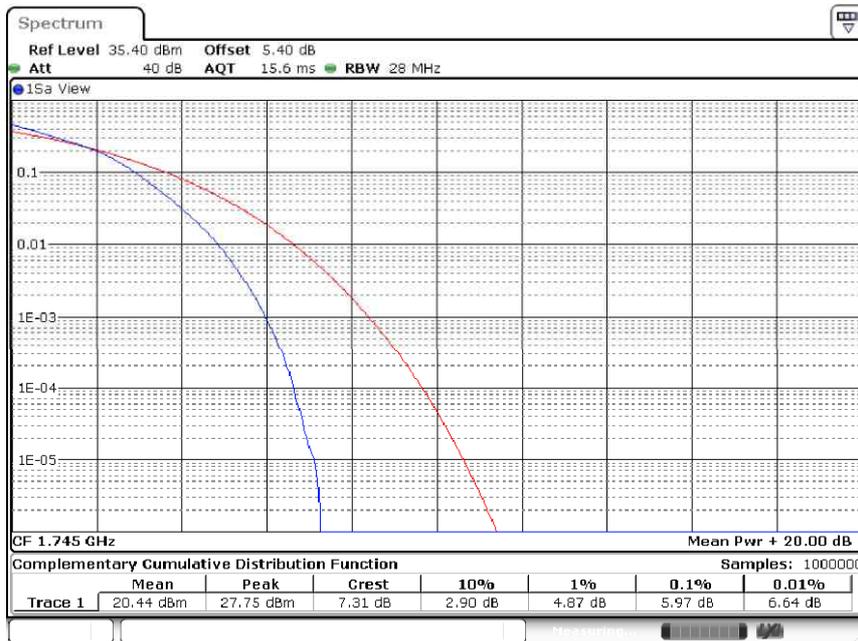


Band4-20MHz-16QAM-20175-100RB#0



Date: 9.JUL.2020 14:17:17

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



Date: 9.JUL.2020 14:17:39



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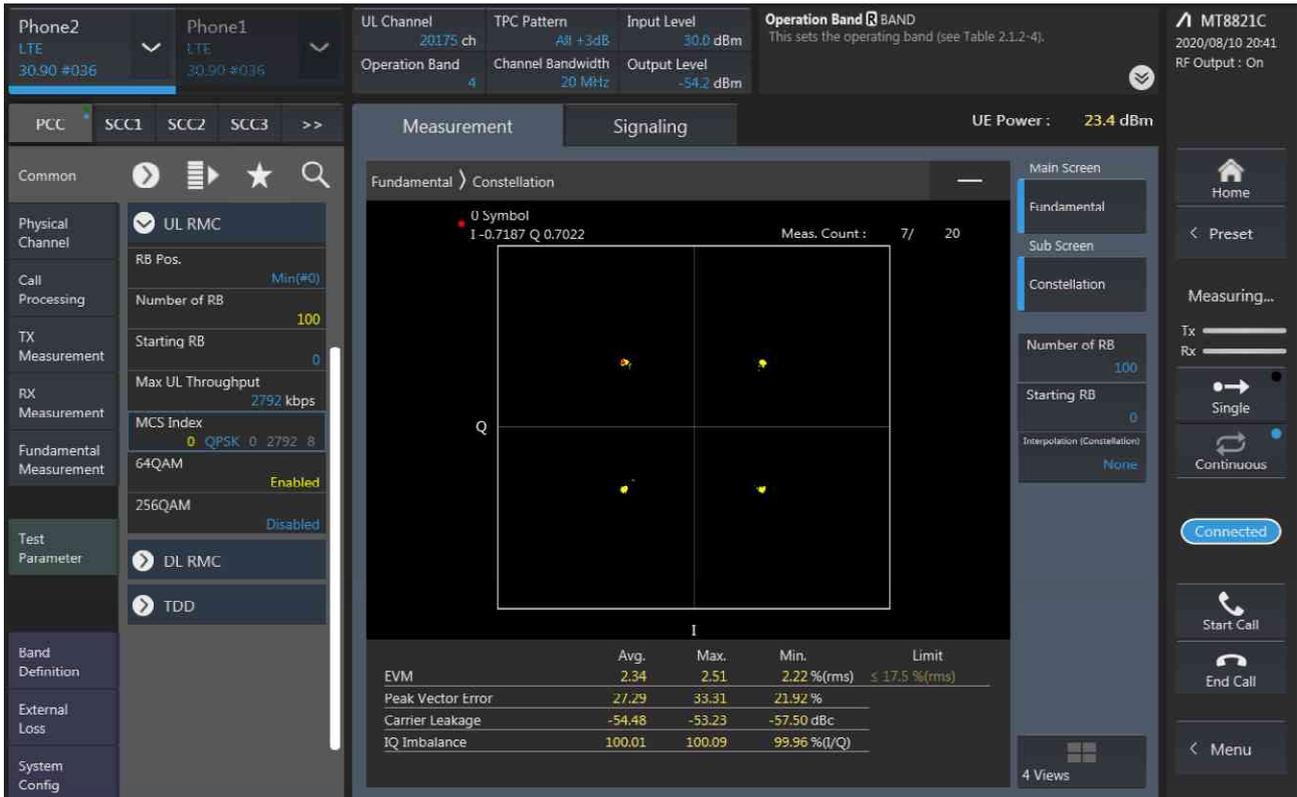
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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

3.1.1. Test Channel = MCH



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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	1.272	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.091	1.293	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	1.097	1.272	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.088	1.272	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	1.094	1.281	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.088	1.284	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.094	1.302	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.091	1.290	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.691	2.916	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.685	2.910	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.691	2.922	PASS
Band4	3MHz	64QAM	19965	15RB#0	2.679	2.898	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.679	2.898	PASS
Band4	3MHz	64QAM	20385	15RB#0	2.679	2.904	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.673	2.904	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.673	2.904	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.679	2.910	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.466	4.860	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.466	4.840	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.476	4.830	PASS
Band4	5MHz	64QAM	19975	25RB#0	4.466	4.820	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.466	4.820	PASS
Band4	5MHz	64QAM	20375	25RB#0	4.476	4.810	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.486	4.860	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.486	4.860	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.486	4.890	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.931	9.560	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.931	9.600	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.931	9.580	PASS
Band4	10MHz	64QAM	20000	50RB#0	8.931	9.600	PASS



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Band4	10MHz	64QAM	20175	50RB#0	8.931	9.580	PASS
Band4	10MHz	64QAM	20350	50RB#0	8.931	9.580	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.931	9.660	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.931	9.660	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.911	9.620	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.427	14.610	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.487	14.640	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.487	14.640	PASS
Band4	15MHz	64QAM	20025	75RB#0	13.457	14.610	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.457	14.670	PASS
Band4	15MHz	64QAM	20325	75RB#0	13.427	14.670	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.457	14.670	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.487	14.520	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.427	14.670	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.902	19.360	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.902	19.280	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.862	19.280	PASS
Band4	20MHz	64QAM	20050	100RB#0	17.862	19.320	PASS
Band4	20MHz	64QAM	20175	100RB#0	17.862	19.240	PASS
Band4	20MHz	64QAM	20300	100RB#0	17.862	19.200	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.862	19.320	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.862	19.320	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.862	19.240	PASS



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4.2. Test Plots

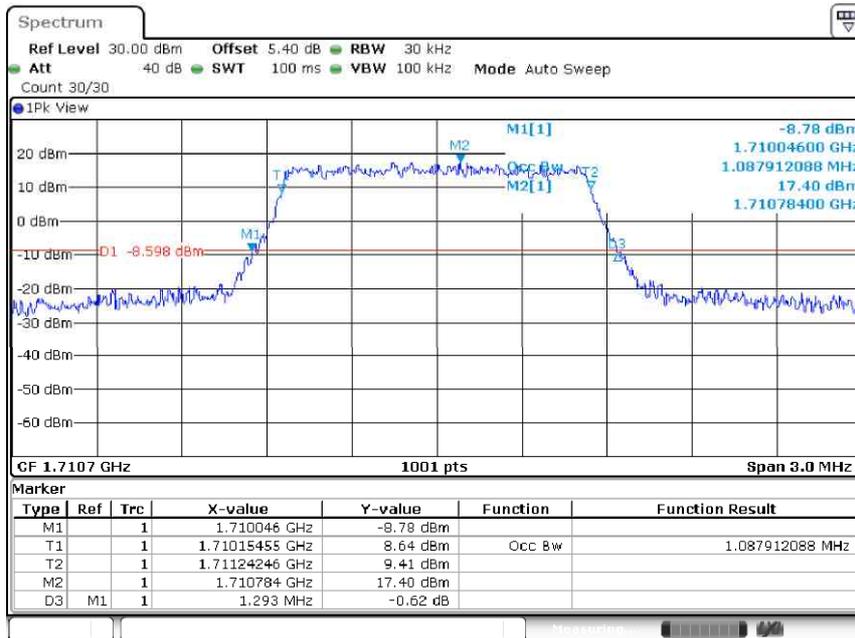


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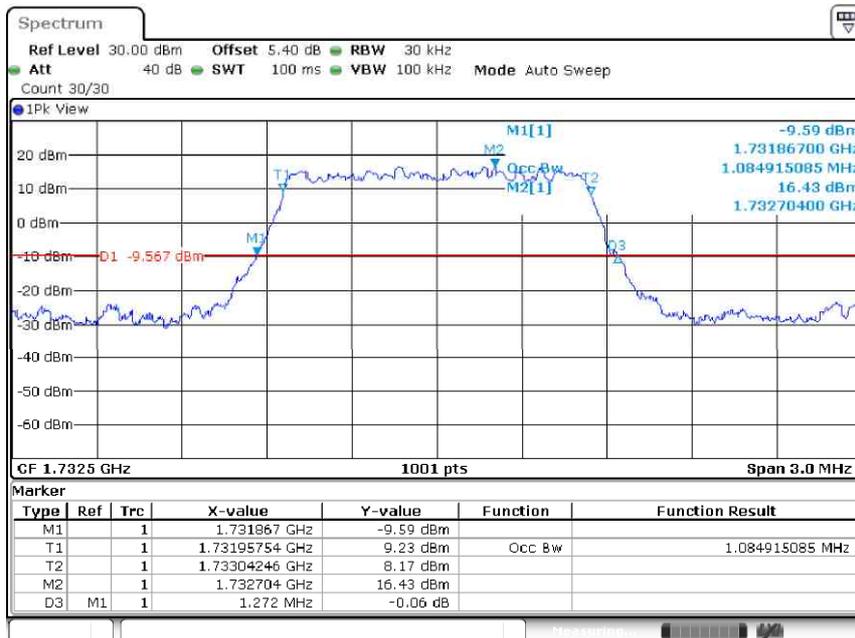


Band4-1.4MHz-QPSK-19957-6RB#0-1.088



Date: 9.JUL.2020 13:46:47

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

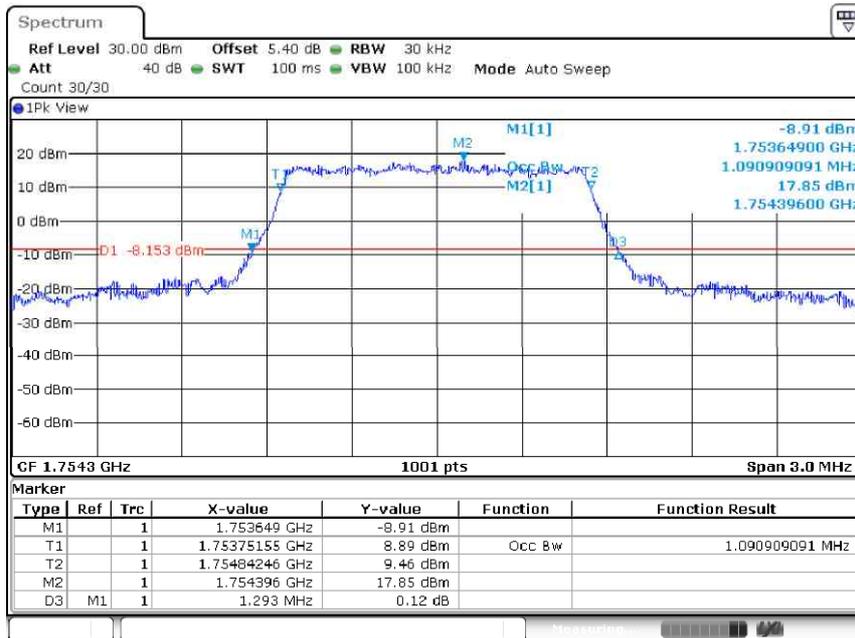


Date: 9.JUL.2020 13:47:12



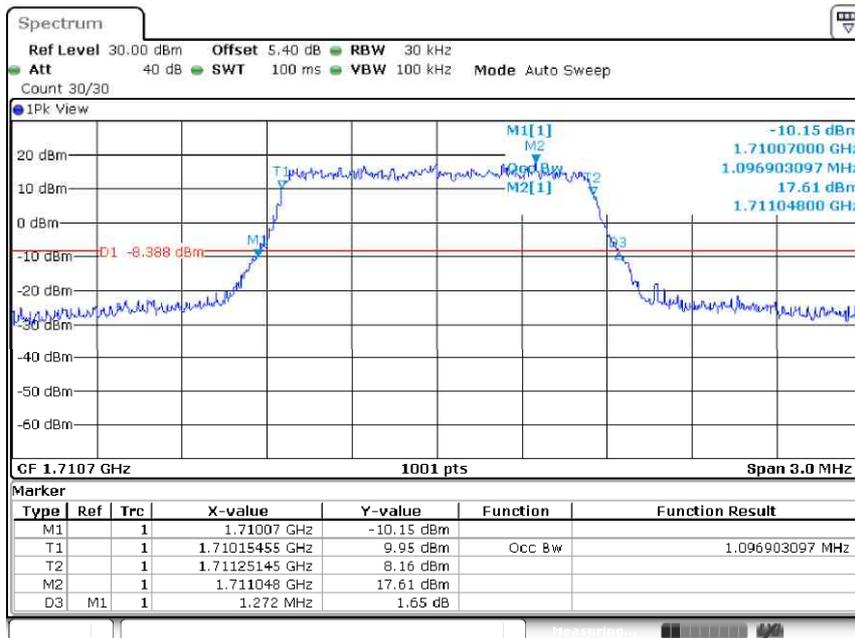
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Band4-1.4MHz-QPSK-20393-6RB#0-1.091



Date: 9.JUL.2020 13:47:38

Band4-1.4MHz-64QAM-19957-6RB#0-1.097



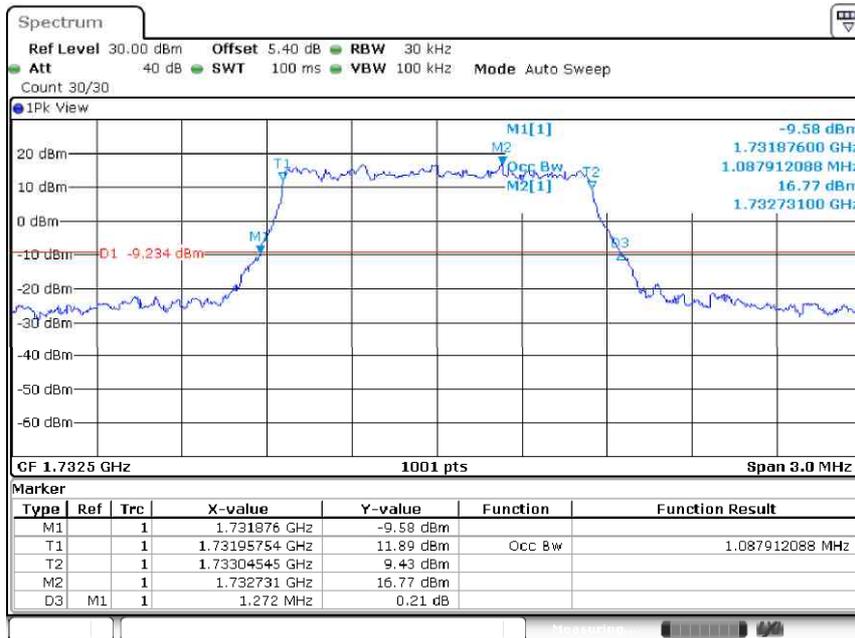
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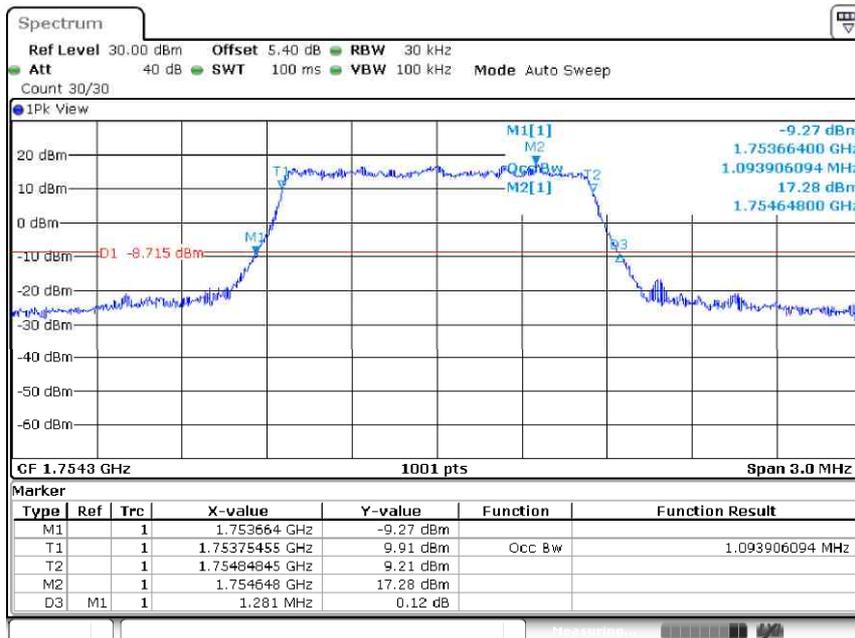


Band4-1.4MHz-64QAM-20175-6RB#0-1.088



Date: 14.JUL.2020 06:55:48

Band4-1.4MHz-64QAM-20393-6RB#0-1.094



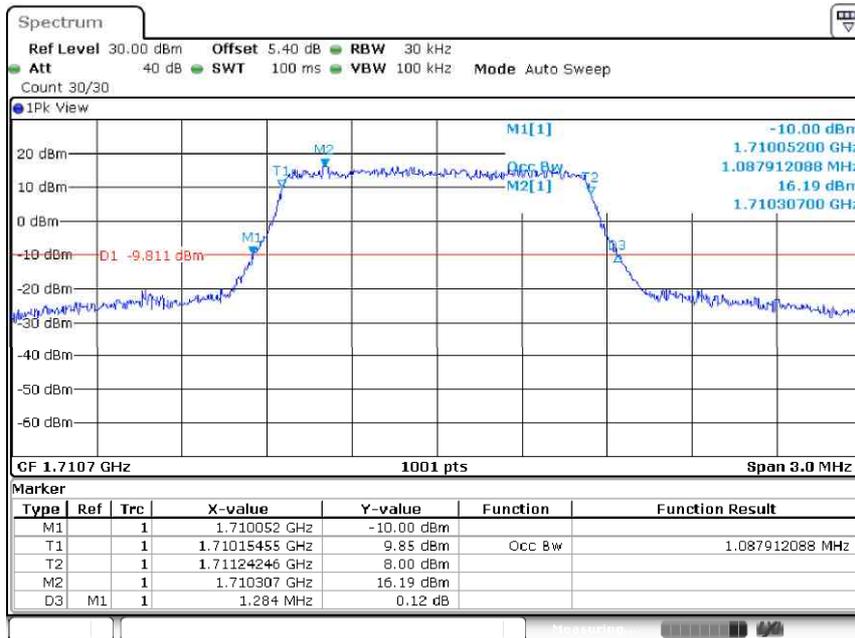
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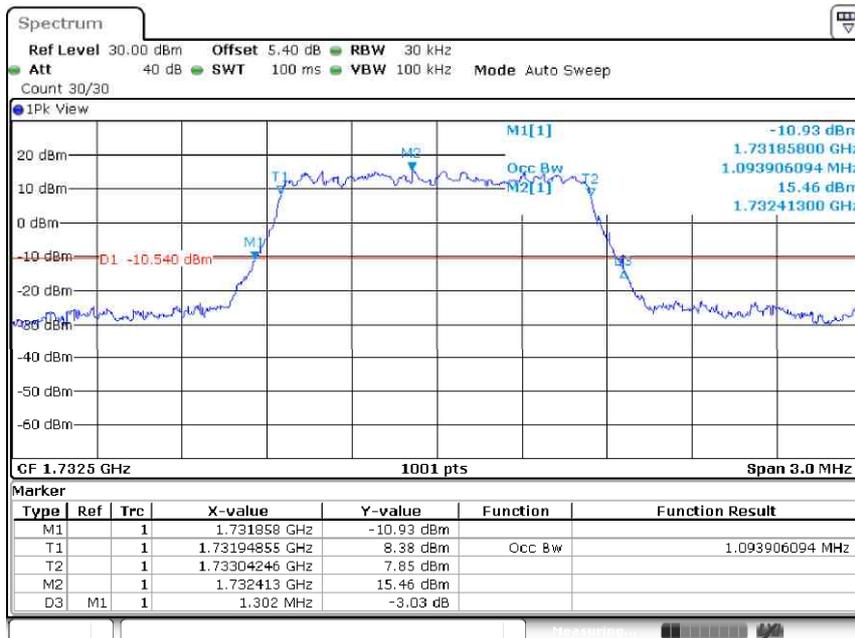


Band4-1.4MHz-16QAM-19957-6RB#0-1.088



Date: 9.JUL.2020 13:46:59

Band4-1.4MHz-16QAM-20175-6RB#0-1.094



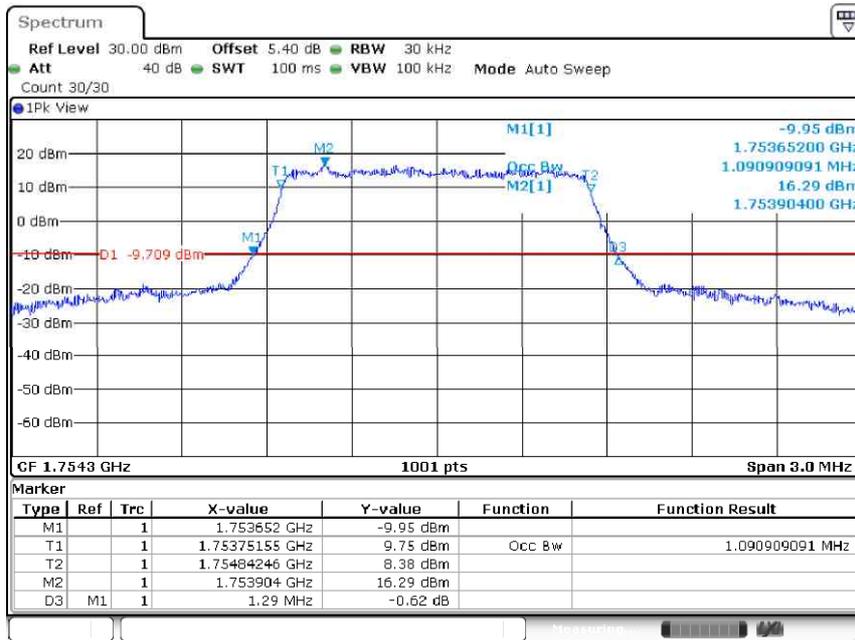
Date: 9.JUL.2020 13:47:25



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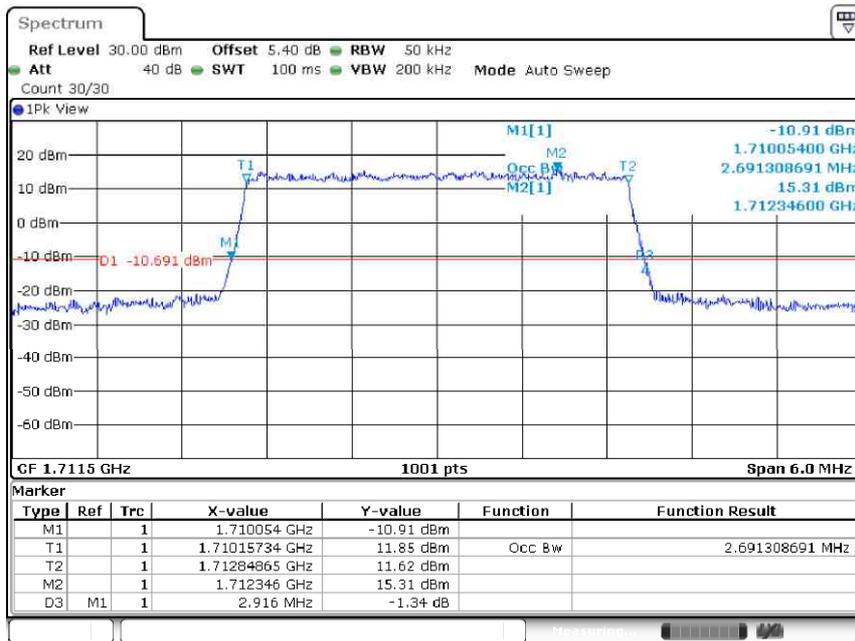


Band4-1.4MHz-16QAM-20393-6RB#0-1.091



Date: 9.JUL.2020 13:47:50

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



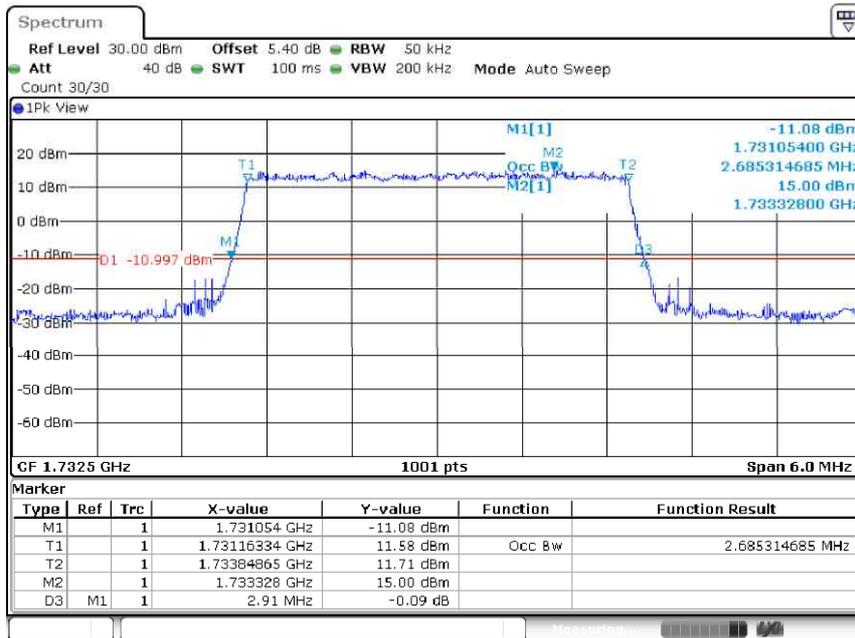
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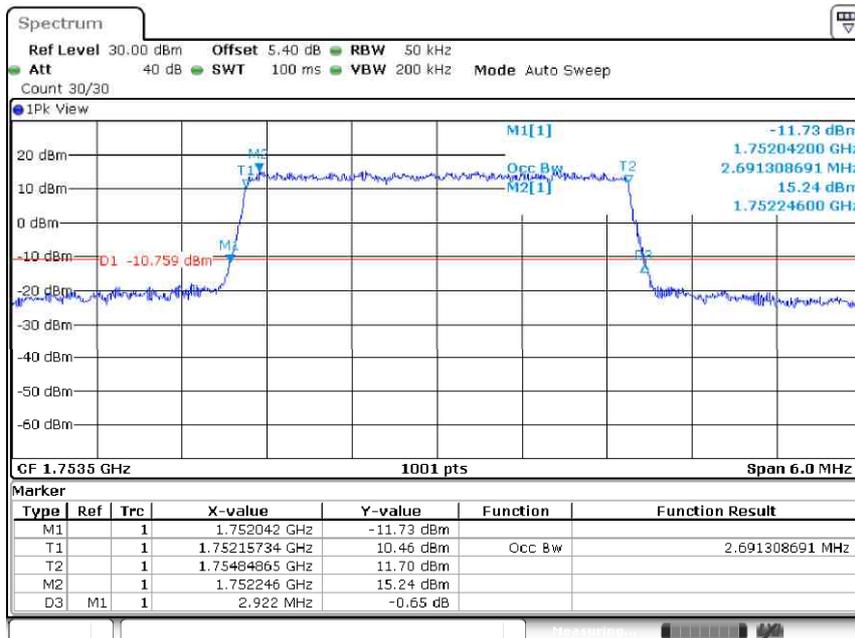


Band4-3MHz-QPSK-20175-15RB#0-2.685



Date: 9.JUL.2020 13:48:34

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



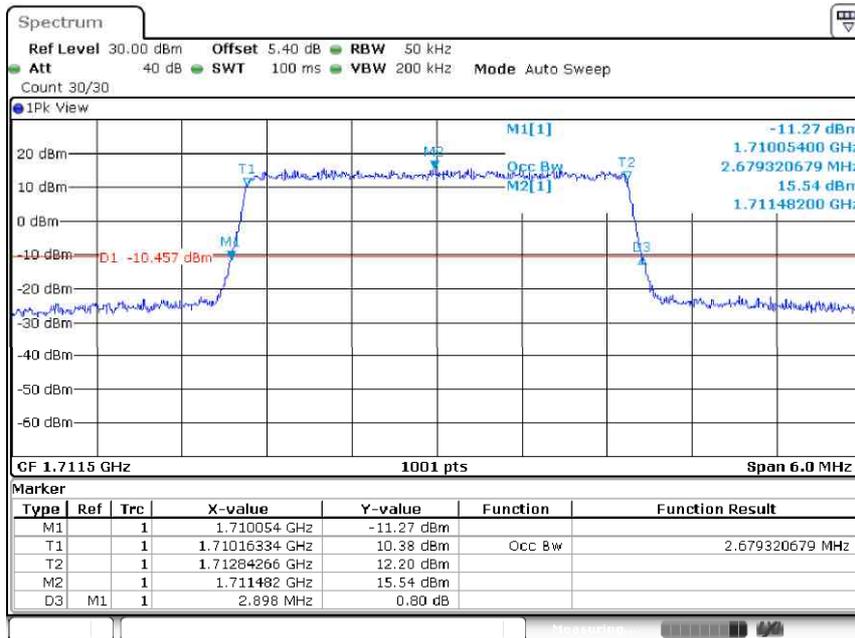
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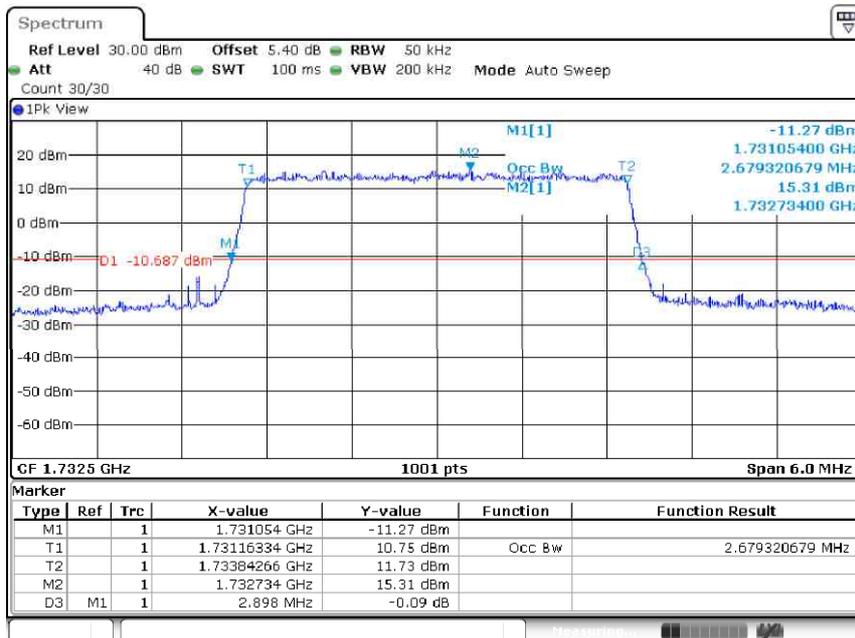


Band4-3MHz-64QAM-19965-15RB#0-2.679



Date: 14.JUL.2020 06:56:19

Band4-3MHz-64QAM-20175-15RB#0-2.679



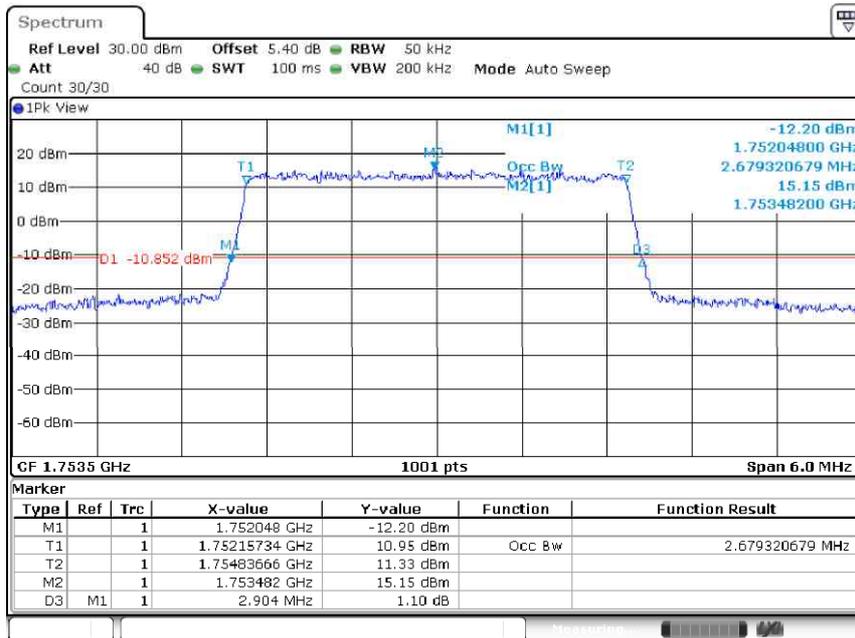
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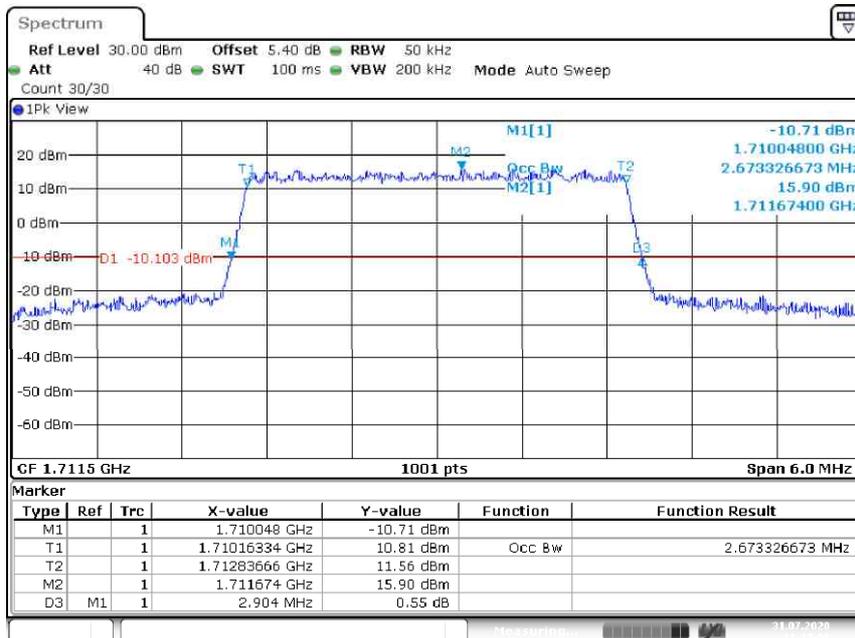


Band4-3MHz-64QAM-20385-15RB#0-2.679



Date: 14.JUL.2020 06:56:45

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

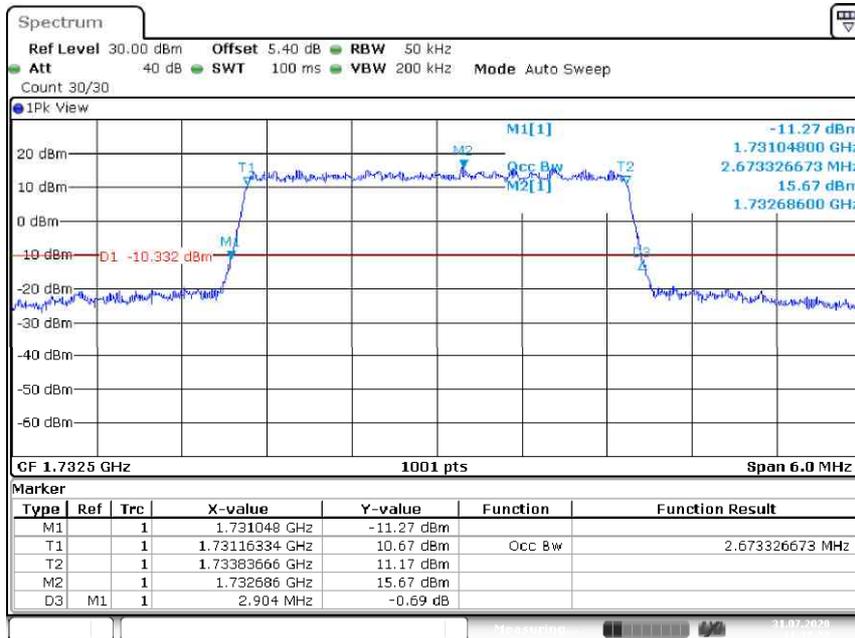


Date: 31.JUL.2020 11:17:09



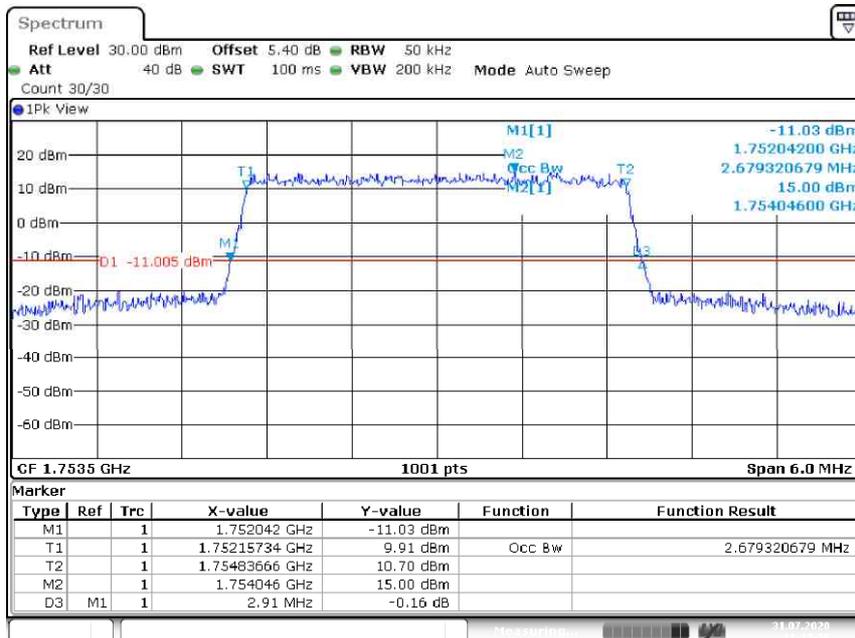
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Band4-3MHz-16QAM-20175-15RB#0-2.673



Date: 31.JUL.2020 11:17:22

Band4-3MHz-16QAM-20385-15RB#0-2.679



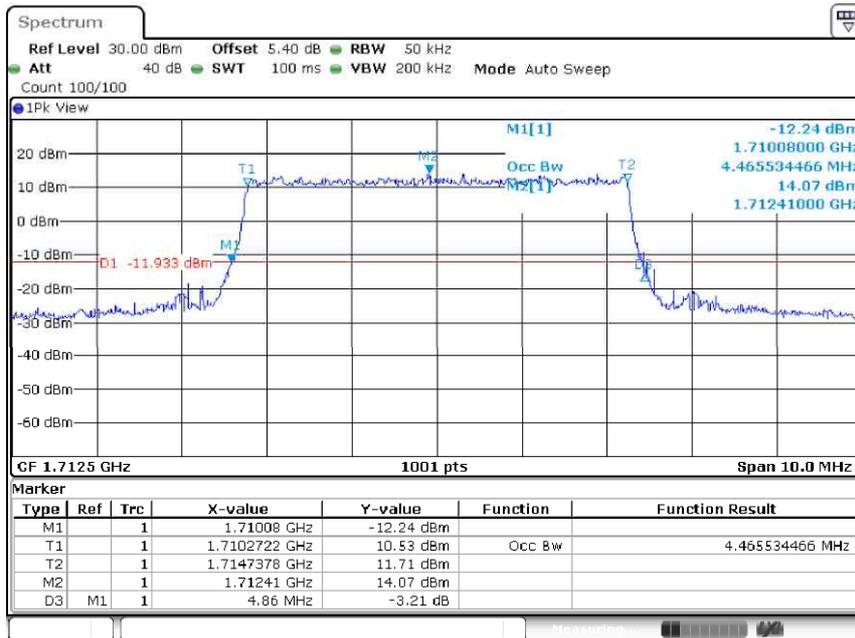
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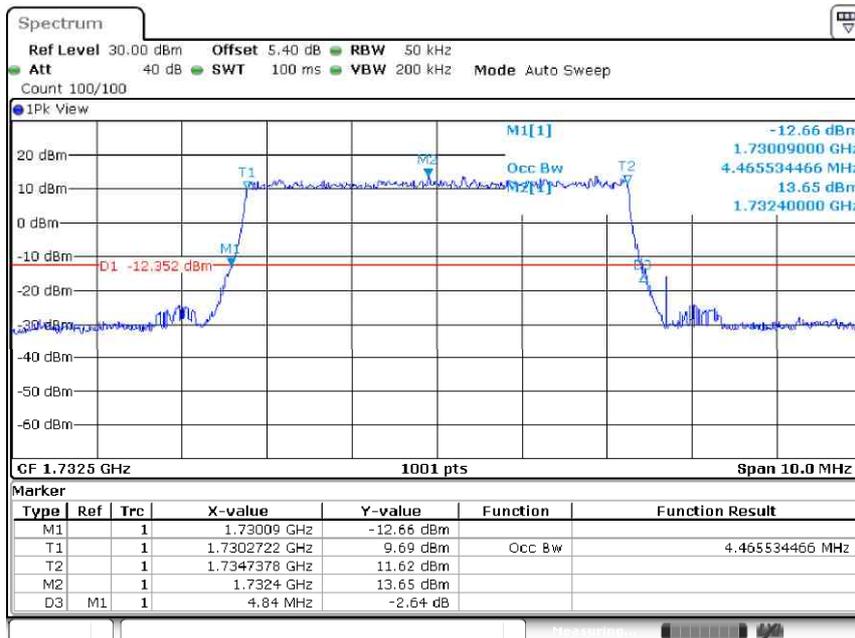


Band4-5MHz-QPSK-19975-25RB#0-4.466



Date: 9.JUL.2020 13:49:36

Band4-5MHz-QPSK-20175-25RB#0-4.466



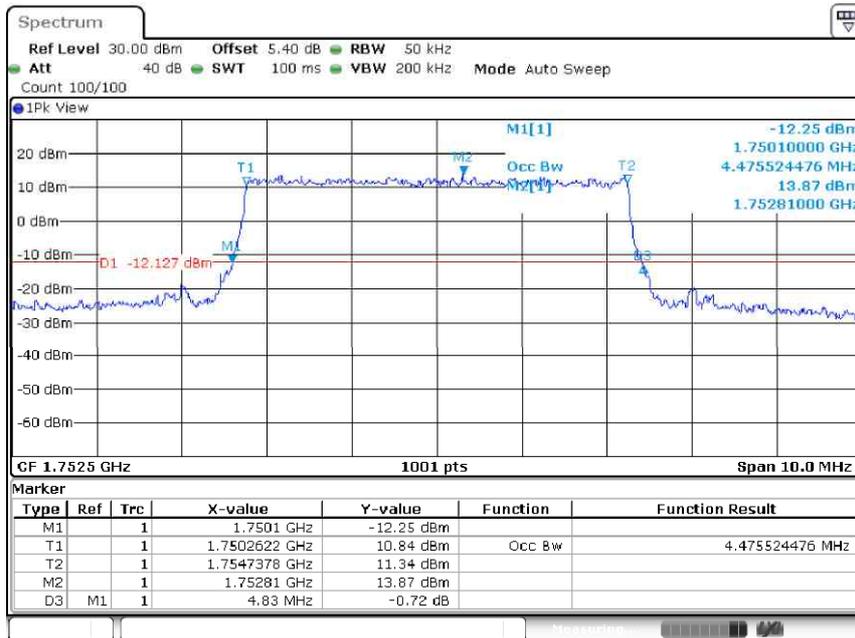
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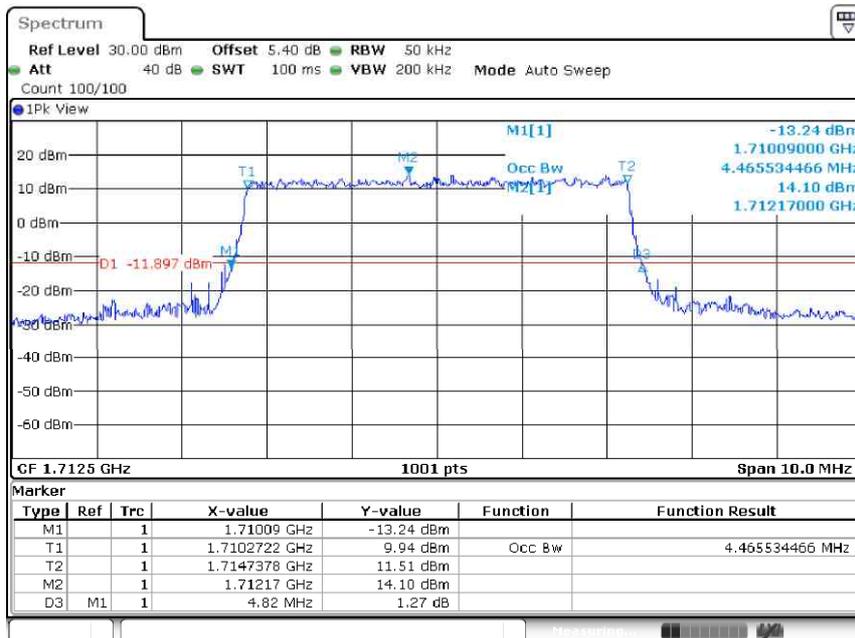


Band4-5MHz-QPSK-20375-25RB#0-4.476



Date: 9.JUL.2020 13:50:56

Band4-5MHz-64QAM-19975-25RB#0-4.466



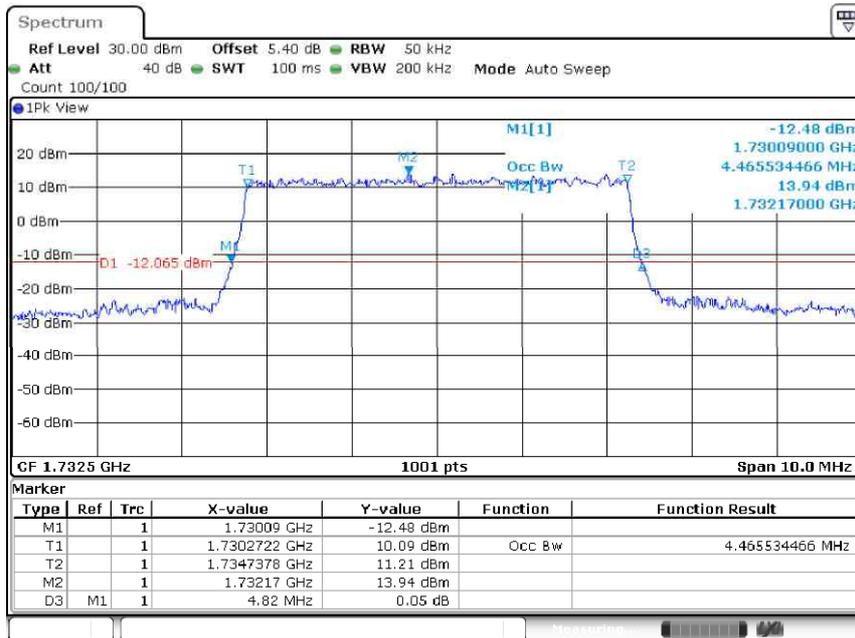
Date: 14.JUL.2020 06:57:10



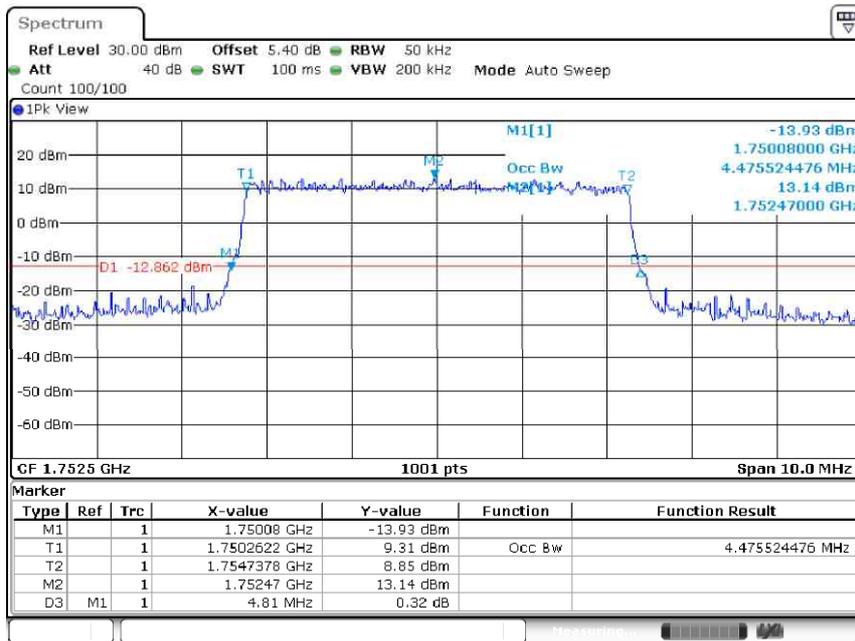
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Band4-5MHz-64QAM-20175-25RB#0-4.466



Band4-5MHz-64QAM-20375-25RB#0-4.476



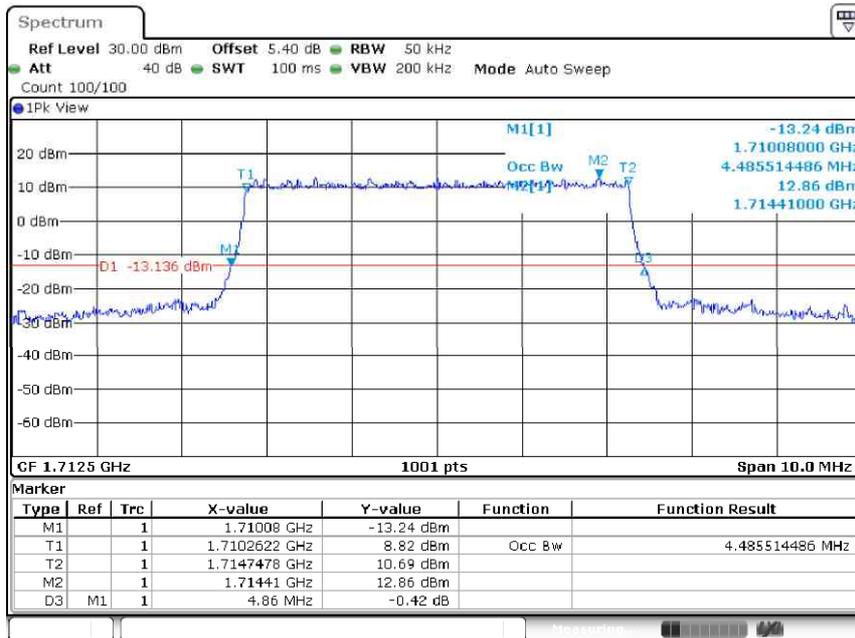
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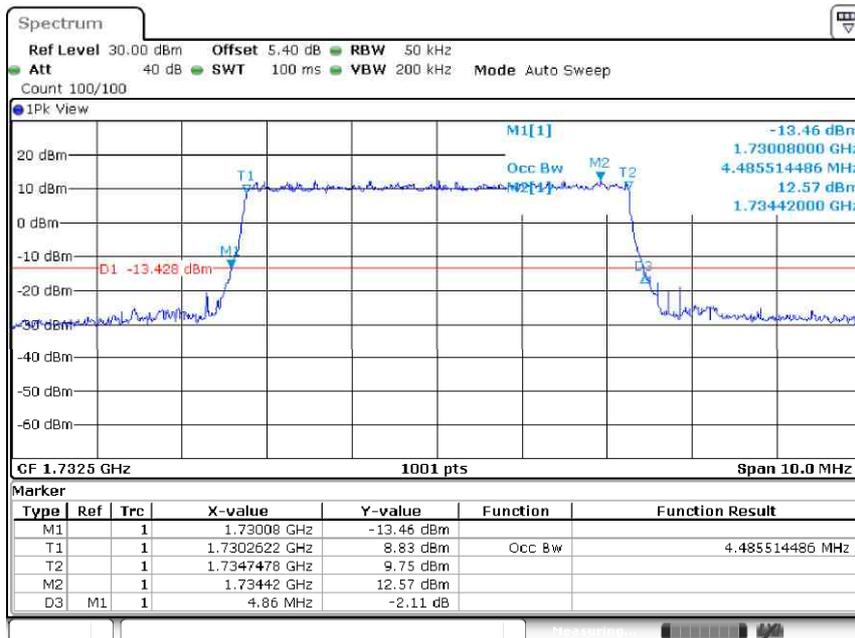


Band4-5MHz-16QAM-19975-25RB#0-4.486



Date: 9.JUL.2020 13:49:56

Band4-5MHz-16QAM-20175-25RB#0-4.486



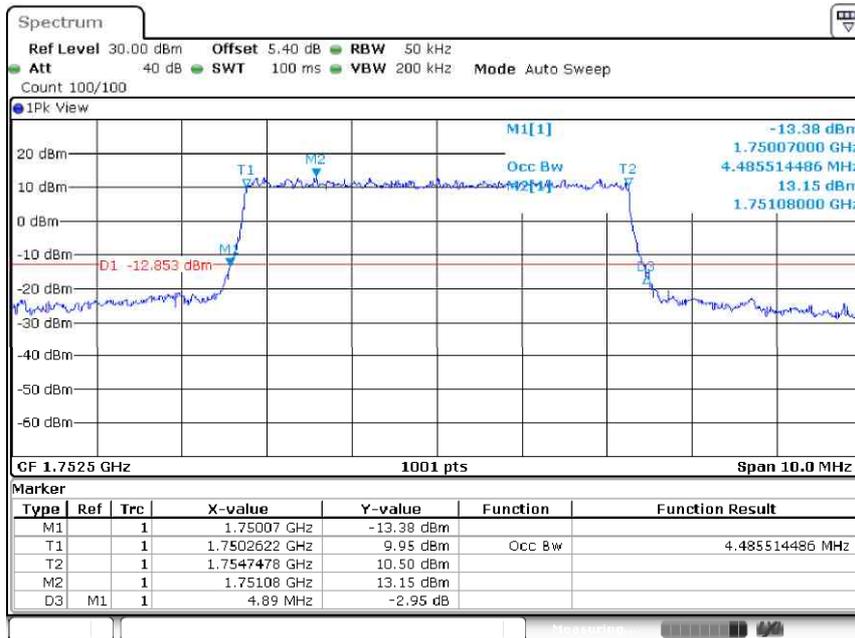
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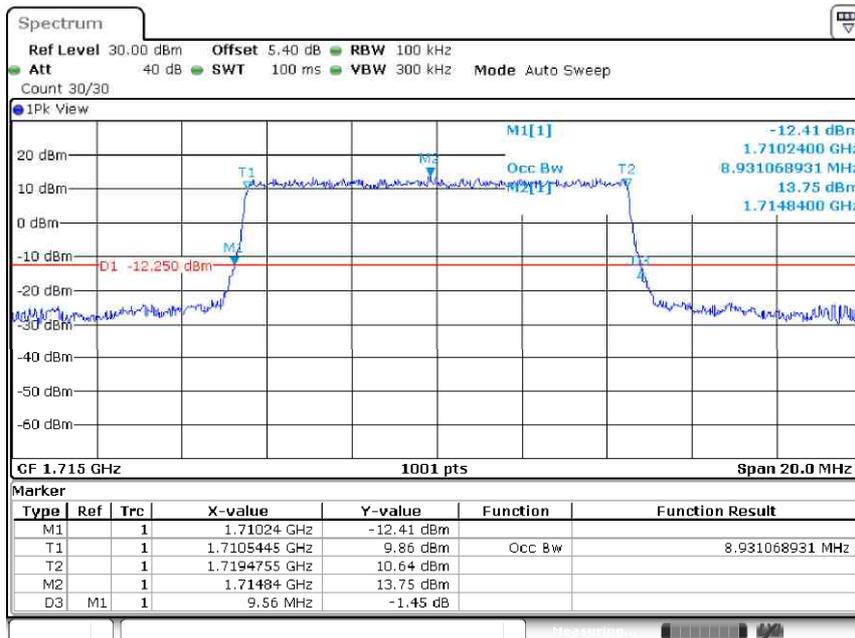


Band4-5MHz-16QAM-20375-25RB#0-4.486



Date: 9.JUL.2020 13:51:15

Band4-10MHz-QPSK-20000-50RB#0-8.931



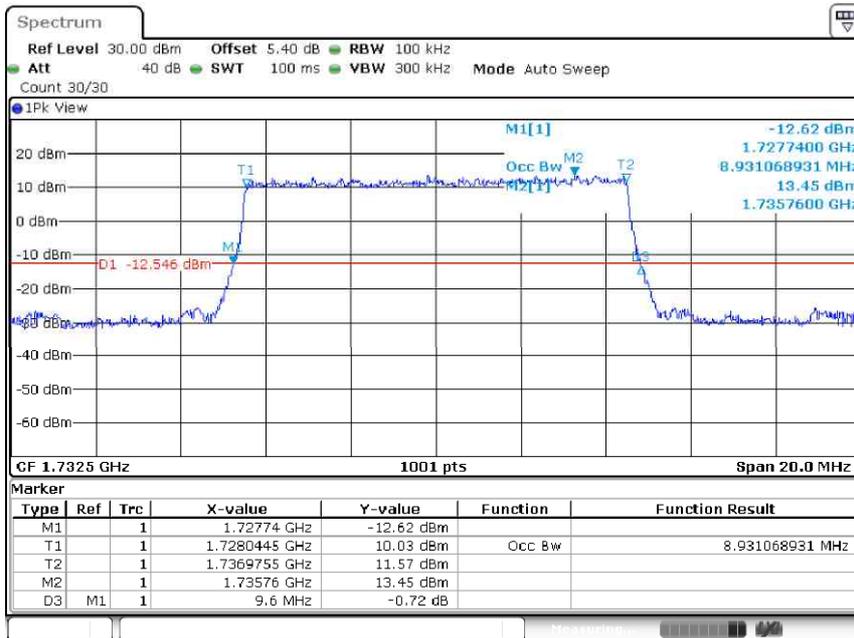
Date: 9.JUL.2020 13:51:33



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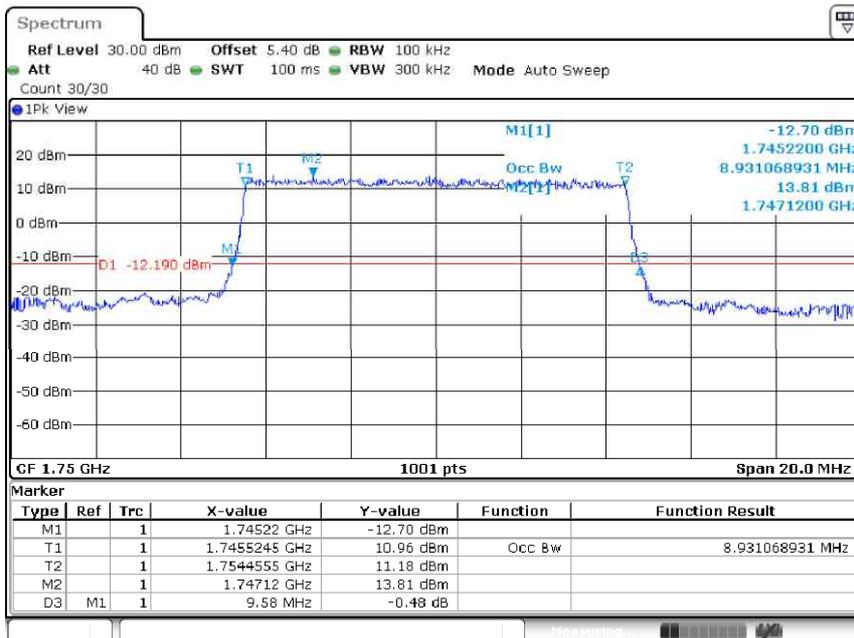


Band4-10MHz-QPSK-20175-50RB#0-8.931



Date: 9.JUL.2020 13:51:58

Band4-10MHz-QPSK-20350-50RB#0-8.931



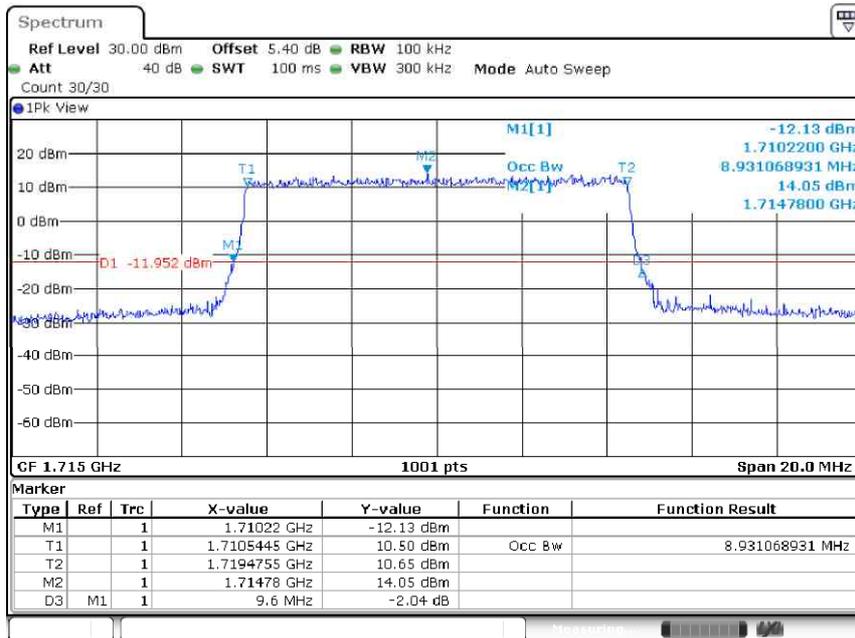
Date: 9.JUL.2020 13:52:24



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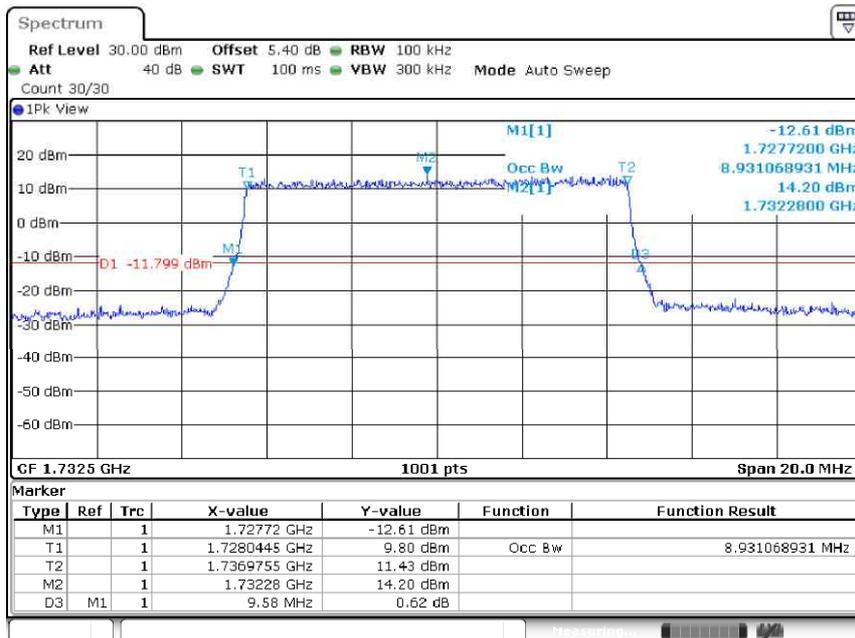


Band4-10MHz-64QAM-20000-50RB#0-8.931



Date: 14.JUL.2020 06:58:08

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



Date: 14.JUL.2020 06:58:21



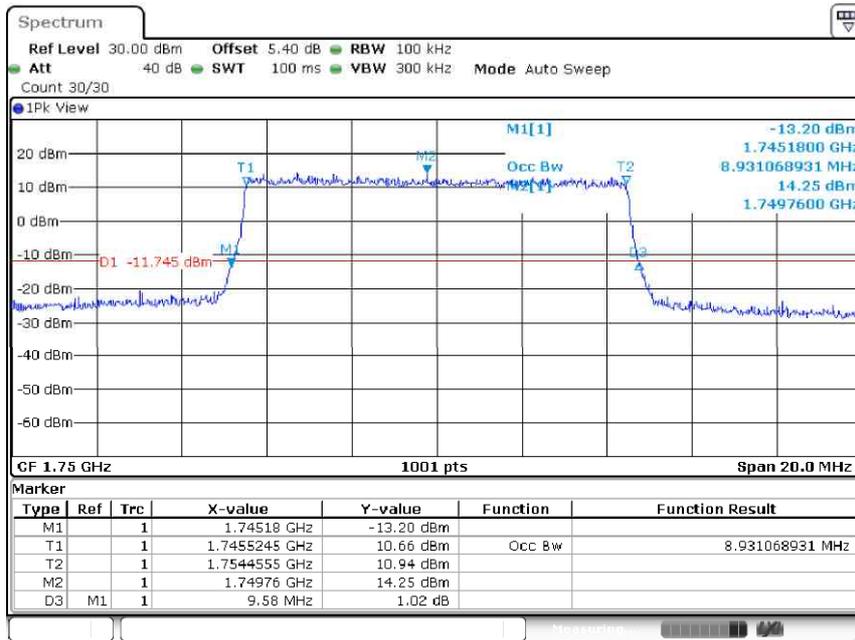
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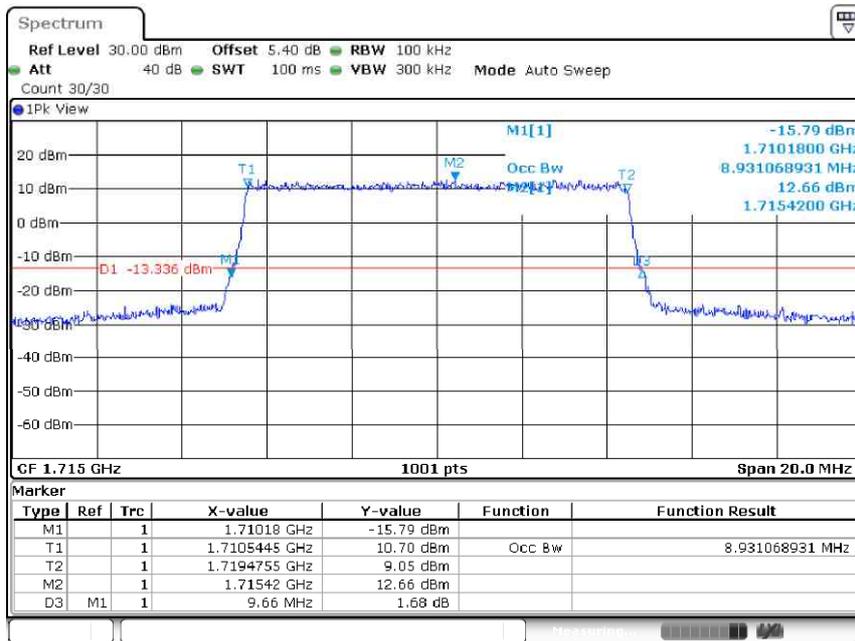


Band4-10MHz-64QAM-20350-50RB#0-8.931



Date: 14.JUL.2020 06:58:34

Band4-10MHz-16QAM-20000-50RB#0-8.931



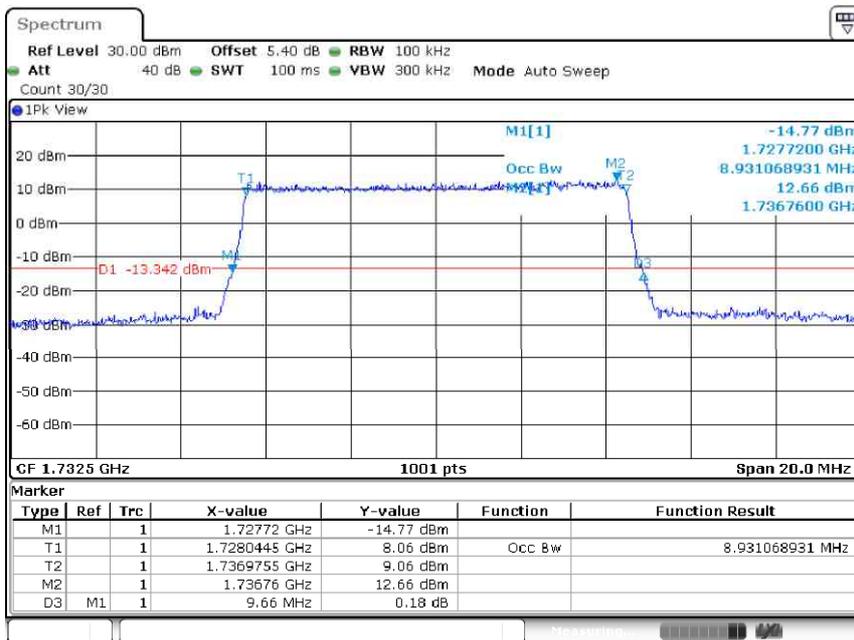
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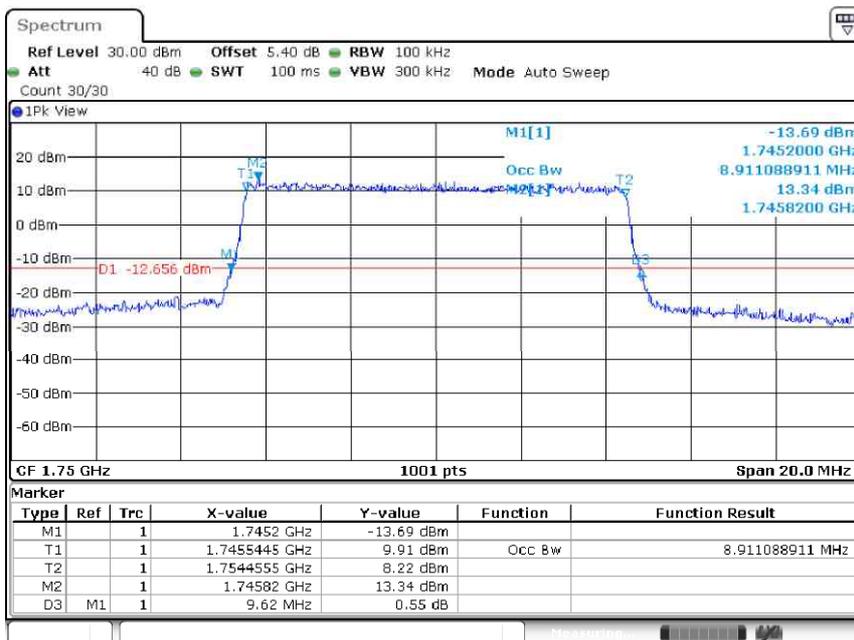


Band4-10MHz-16QAM-20175-50RB#0-8.931



Date: 9.JUL.2020 13:52:11

Band4-10MHz-16QAM-20350-50RB#0-8.911



Date: 9.JUL.2020 13:52:36



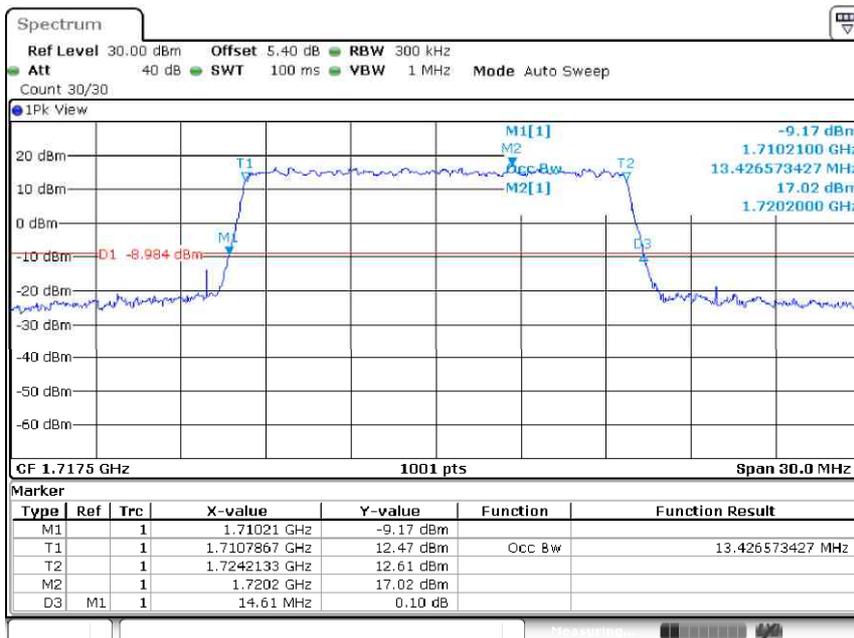
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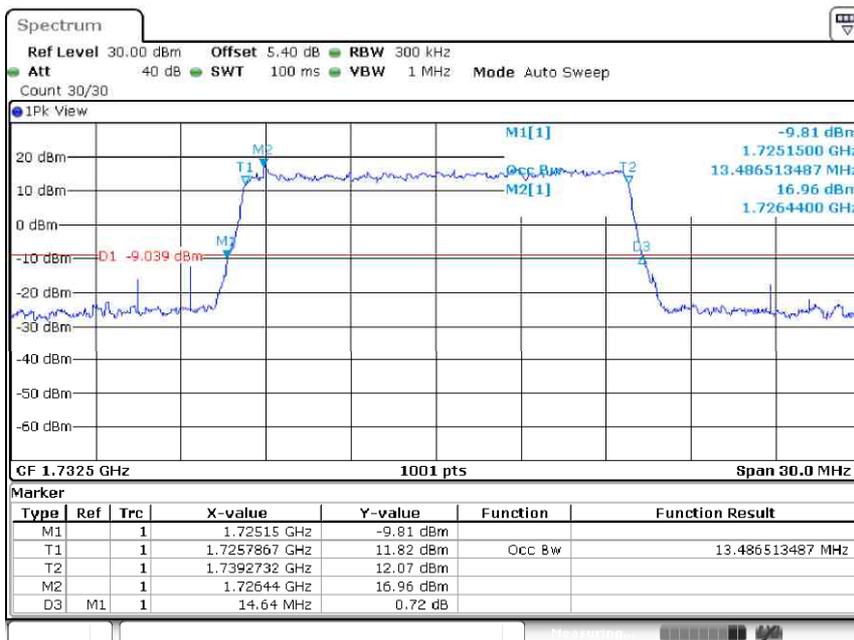


Band4-15MHz-QPSK-20025-75RB#0-13.427



Date: 9.JUL.2020 13:52:54

Band4-15MHz-QPSK-20175-75RB#0-13.487



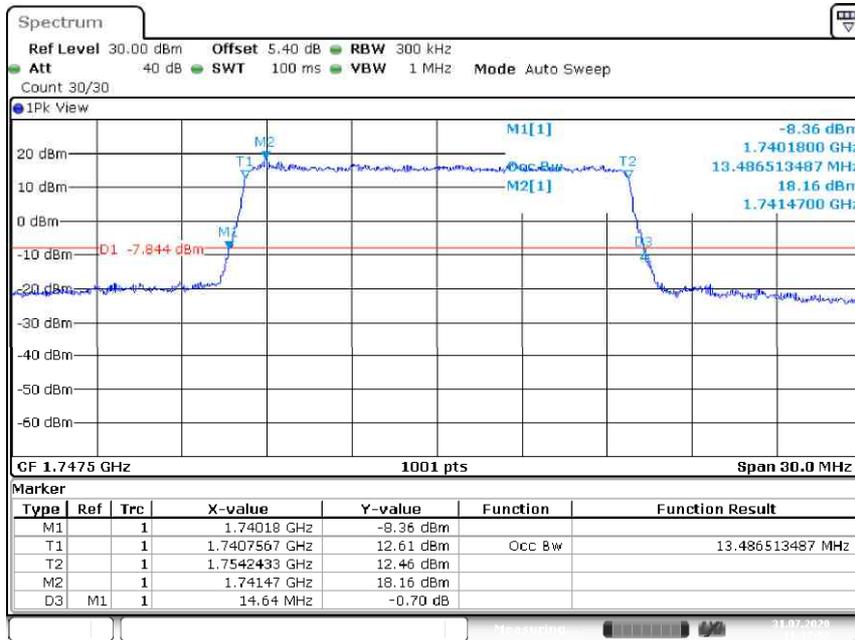
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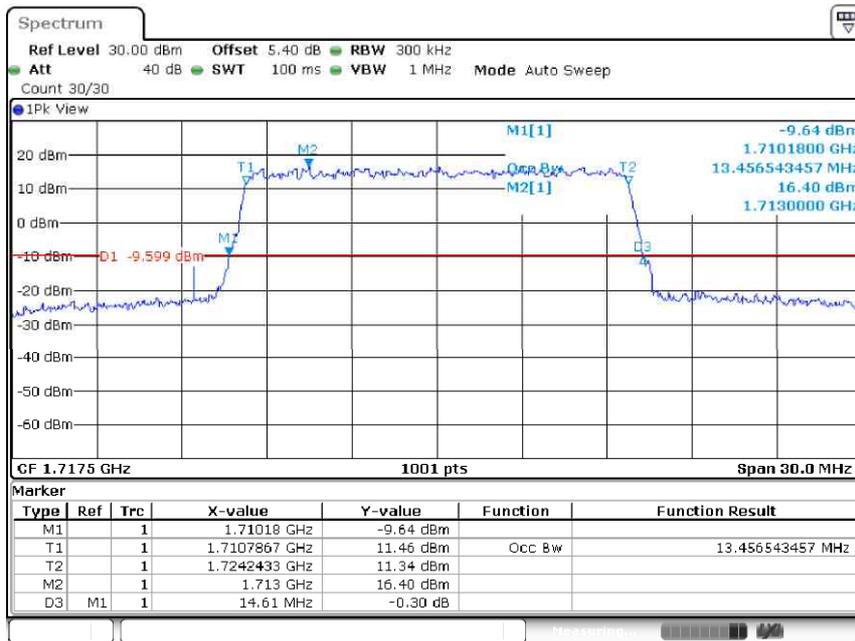


Band4-15MHz-QPSK-20325-75RB#0-13.487



Date: 31.JUL.2020 11:17:53

Band4-15MHz-64QAM-20025-75RB#0-13.457



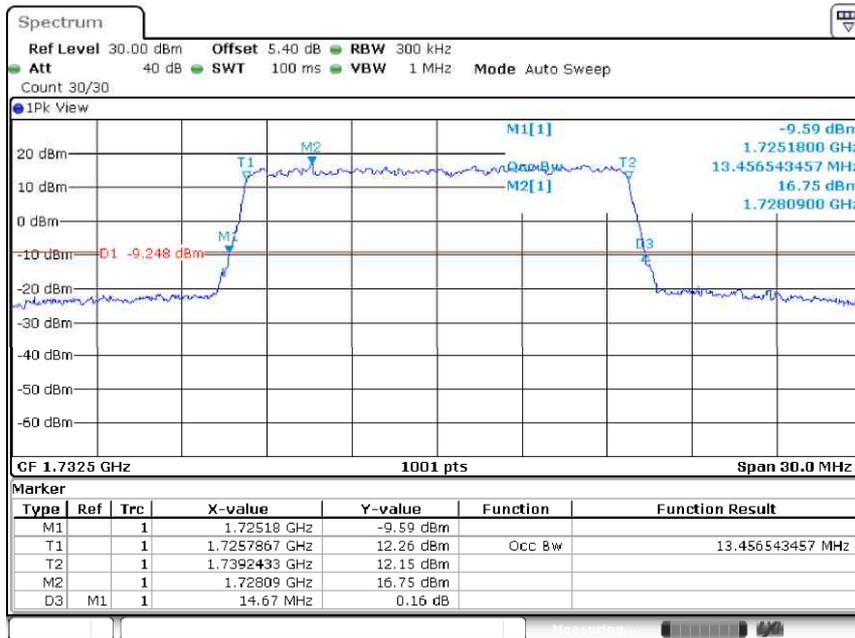
Date: 14.JUL.2020 06:58:52



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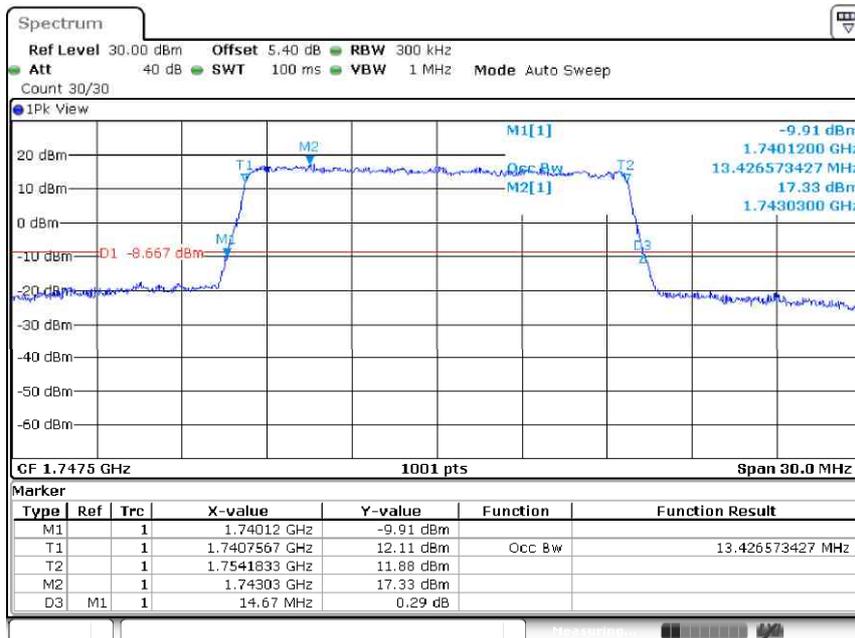


Band4-15MHz-64QAM-20175-75RB#0-13.457



Date: 14.JUL.2020 06:59:05

Band4-15MHz-64QAM-20325-75RB#0-13.427



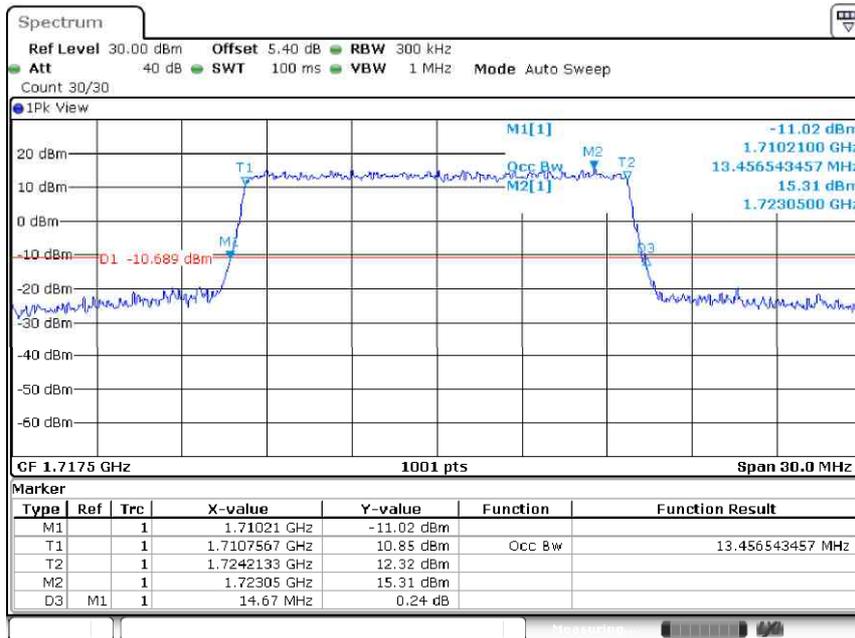
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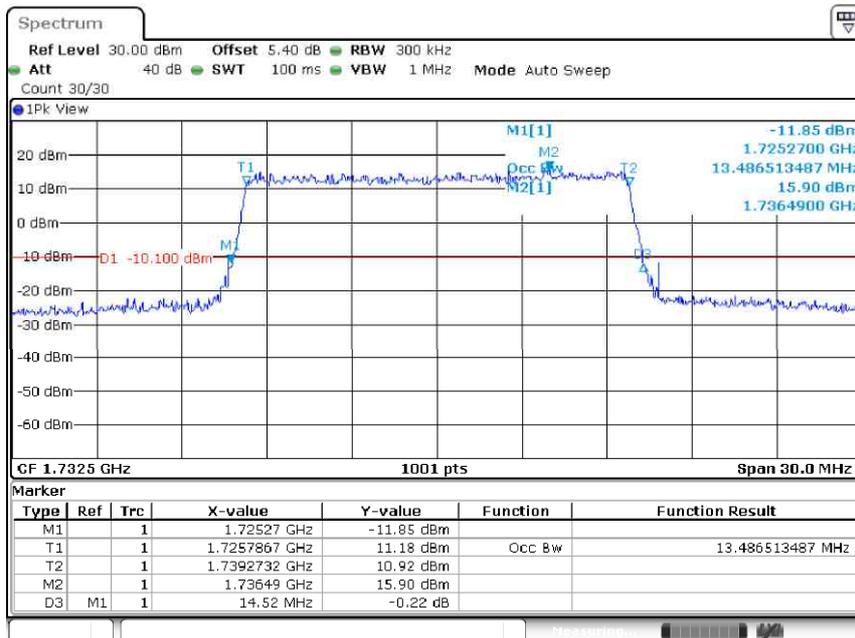


Band4-15MHz-16QAM-20025-75RB#0-13.457



Date: 9.JUL.2020 13:53:06

Band4-15MHz-16QAM-20175-75RB#0-13.487



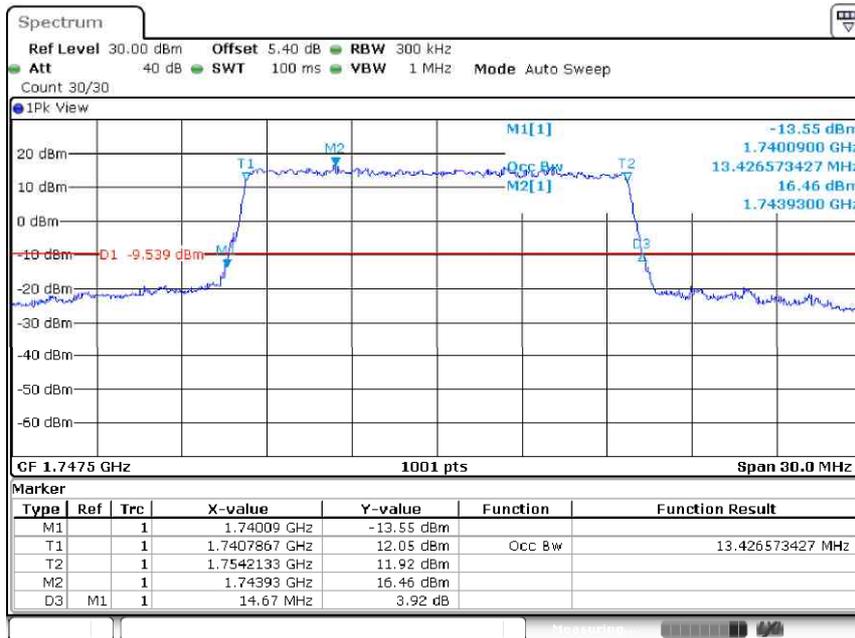
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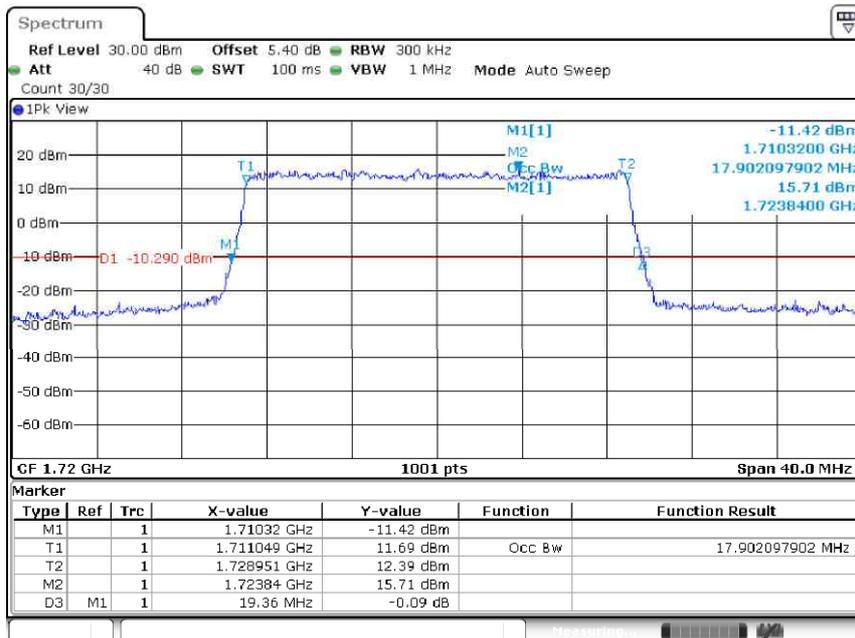


Band4-15MHz-16QAM-20325-75RB#0-13.427



Date: 9.JUL.2020 13:53:58

Band4-20MHz-QPSK-20050-100RB#0-17.902



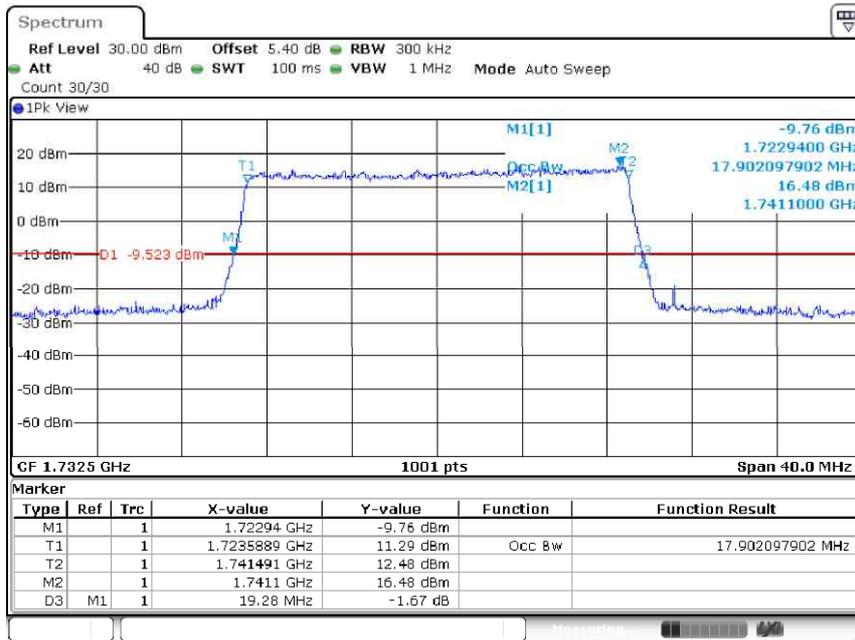
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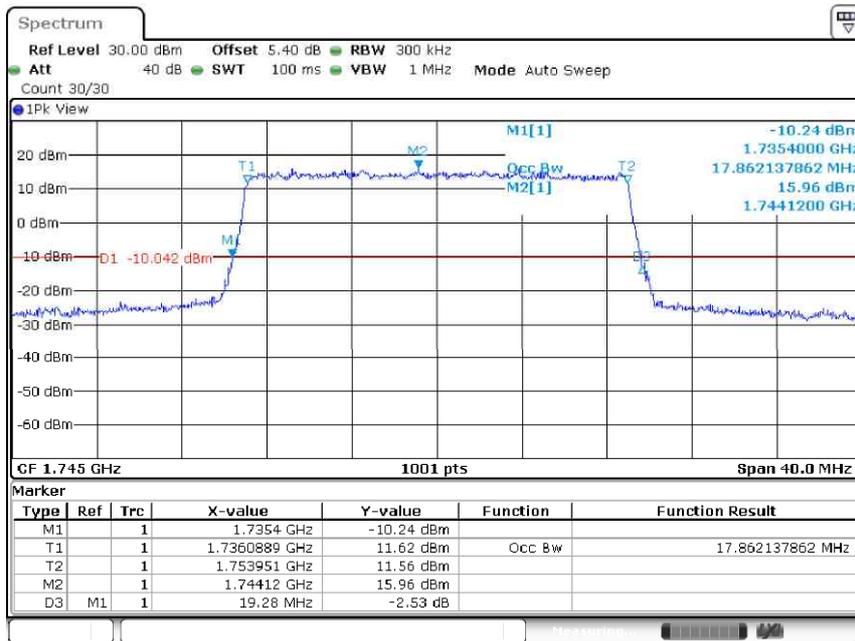
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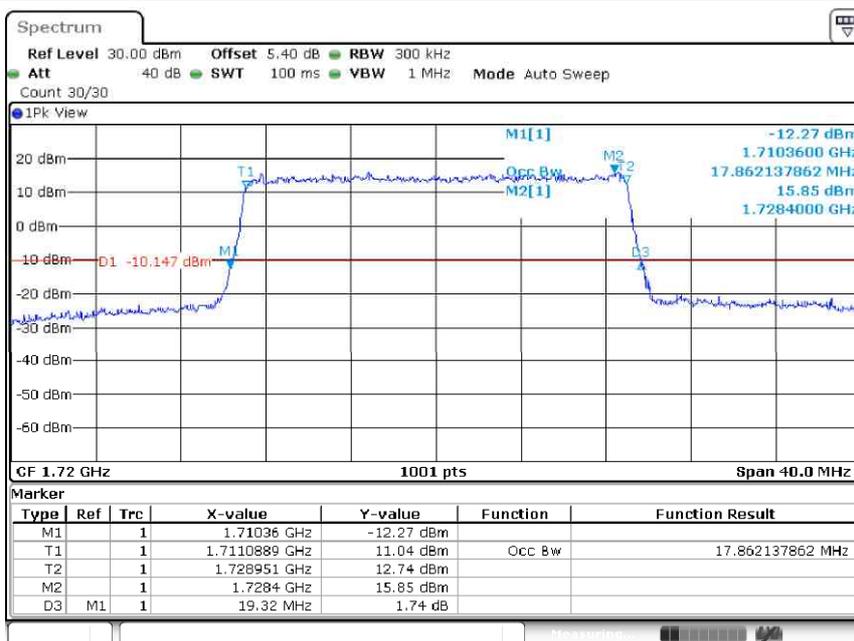
Band4-20MHz-QPSK-20300-100RB#0-17.862



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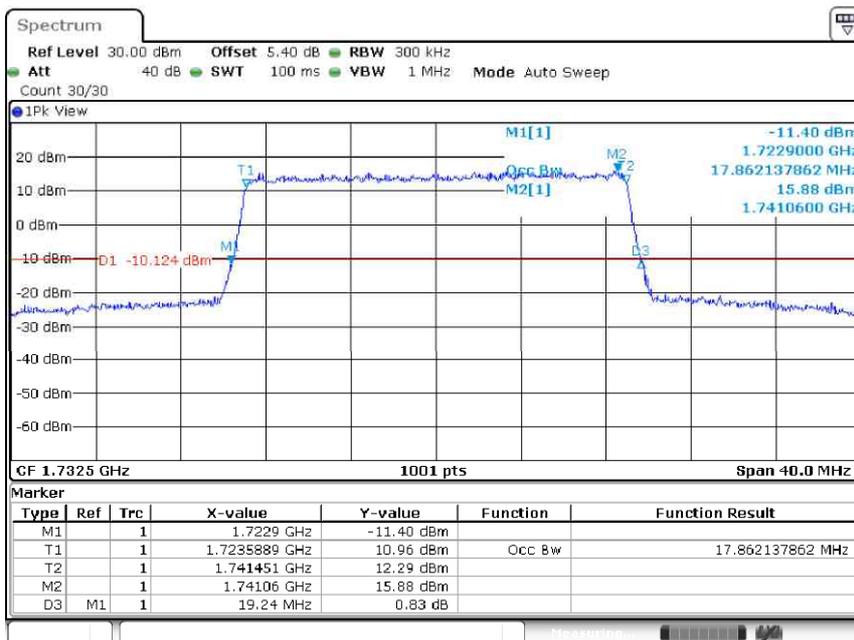


Band4-20MHz-64QAM-20050-100RB#0-17.862



Date: 14 JUL 2020 06:59:35

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



Date: 14 JUL 2020 06:59:48



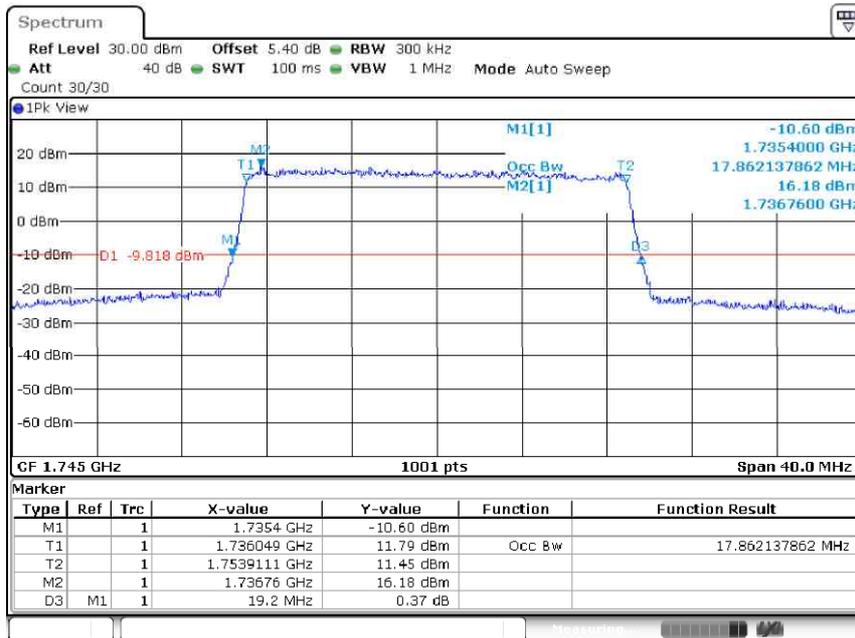
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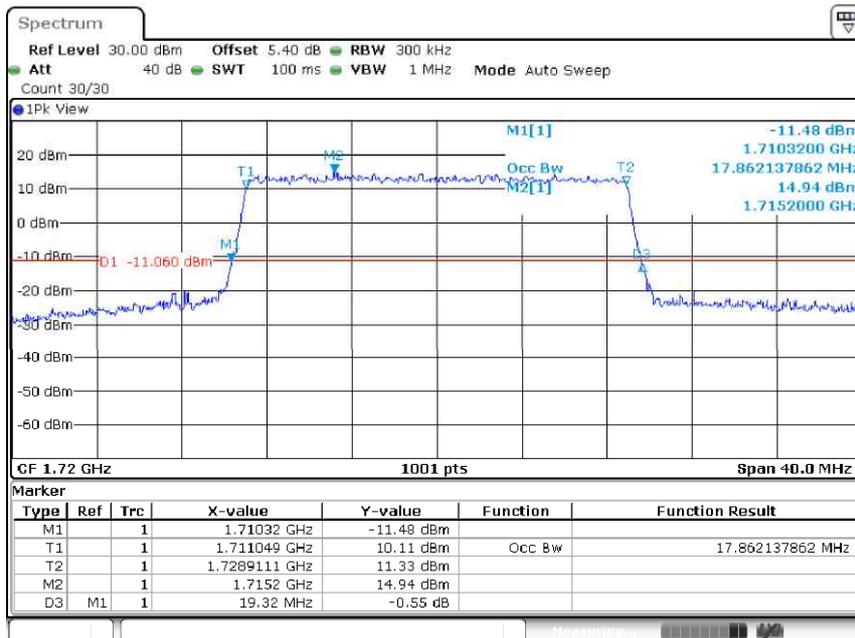


Band4-20MHz-64QAM-20300-100RB#0-17.862



Date: 14.JUL.2020 07:00:01

Band4-20MHz-16QAM-20050-100RB#0-17.862



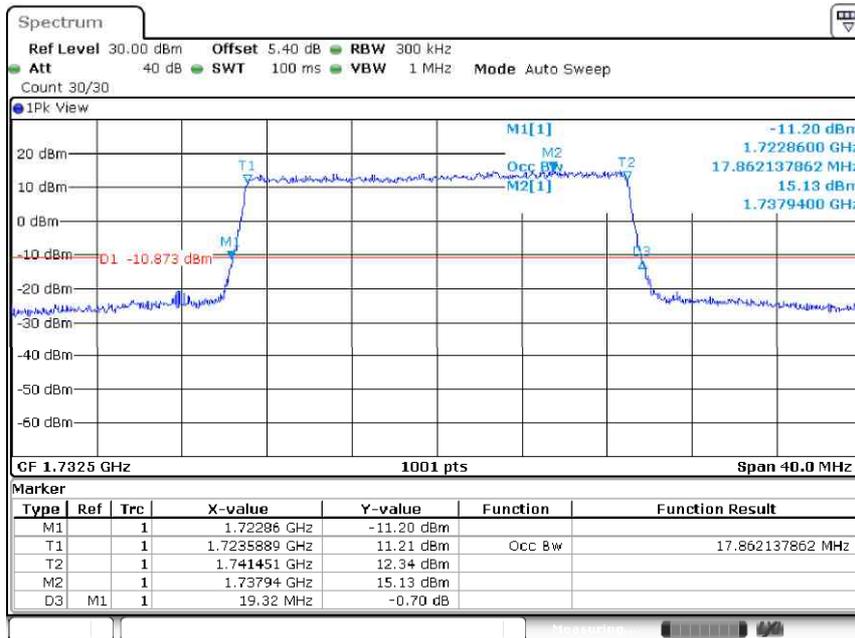
Date: 9.JUL.2020 13:54:28



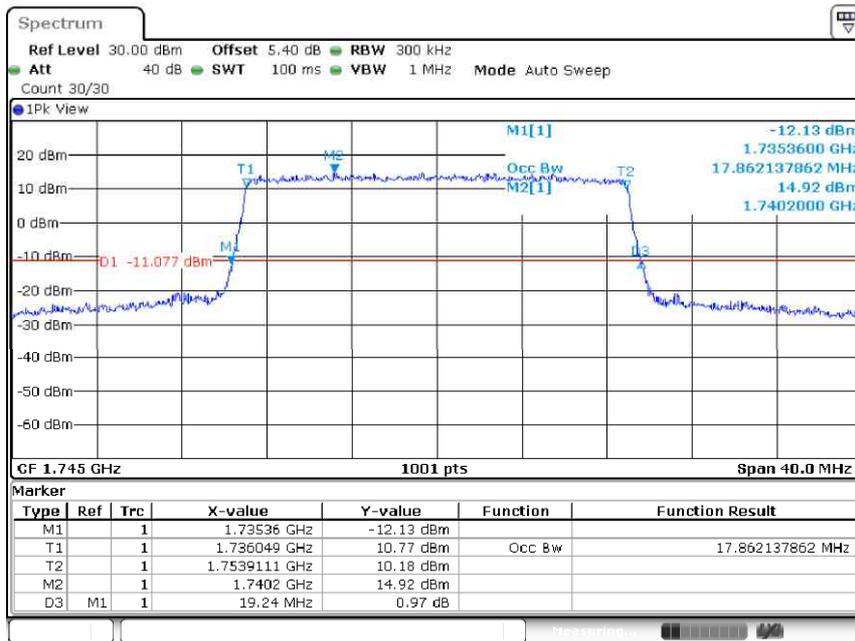
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Band4-20MHz-16QAM-20175-100RB#0-17.862



Band4-20MHz-16QAM-20300-100RB#0-17.862



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5. Band Edge Compliance

5.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	-21.25	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	-27.48	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	-19.55	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	-26.54	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	-21.23	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	-28.74	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	-19.75	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	-28.69	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	-21.87	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	-28.29	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	-21.06	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	-27.58	PASS
Band4	3MHz	QPSK	19965	1RB#0	-21.39	PASS
Band4	3MHz	QPSK	19965	15RB#0	-32.84	PASS
Band4	3MHz	QPSK	20385	1RB#14	-21.57	PASS
Band4	3MHz	QPSK	20385	15RB#0	-30.71	PASS
Band4	3MHz	64QAM	19965	1RB#0	-21.99	PASS
Band4	3MHz	64QAM	19965	15RB#0	-33.26	PASS
Band4	3MHz	64QAM	20385	1RB#14	-21.12	PASS
Band4	3MHz	64QAM	20385	15RB#0	-32.14	PASS
Band4	3MHz	16QAM	19965	1RB#0	-21.04	PASS
Band4	3MHz	16QAM	19965	15RB#0	-34.01	PASS
Band4	3MHz	16QAM	20385	1RB#14	-22.11	PASS
Band4	3MHz	16QAM	20385	15RB#0	-32.52	PASS
Band4	5MHz	QPSK	19975	1RB#0	-19.84	PASS
Band4	5MHz	QPSK	19975	25RB#0	-31.39	PASS
Band4	5MHz	QPSK	20375	1RB#24	-19.99	PASS
Band4	5MHz	QPSK	20375	25RB#0	-31.00	PASS
Band4	5MHz	64QAM	19975	1RB#0	-19.81	PASS
Band4	5MHz	64QAM	19975	25RB#0	-32.35	PASS
Band4	5MHz	64QAM	20375	1RB#24	-19.61	PASS
Band4	5MHz	64QAM	20375	25RB#0	-31.53	PASS



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Band4	5MHz	16QAM	19975	1RB#0	-20.75	PASS
Band4	5MHz	16QAM	19975	25RB#0	-32.09	PASS
Band4	5MHz	16QAM	20375	1RB#24	-19.50	PASS
Band4	5MHz	16QAM	20375	25RB#0	-31.34	PASS
Band4	10MHz	QPSK	20000	1RB#0	-22.49	PASS
Band4	10MHz	QPSK	20000	50RB#0	-33.14	PASS
Band4	10MHz	QPSK	20350	1RB#49	-21.47	PASS
Band4	10MHz	QPSK	20350	50RB#0	-31.80	PASS
Band4	10MHz	64QAM	20000	1RB#0	-22.11	PASS
Band4	10MHz	64QAM	20000	50RB#0	-33.80	PASS
Band4	10MHz	64QAM	20350	1RB#49	-21.72	PASS
Band4	10MHz	64QAM	20350	50RB#0	-32.58	PASS
Band4	10MHz	16QAM	20000	1RB#0	-22.34	PASS
Band4	10MHz	16QAM	20000	50RB#0	-33.84	PASS
Band4	10MHz	16QAM	20350	1RB#49	-22.92	PASS
Band4	10MHz	16QAM	20350	50RB#0	-33.06	PASS
Band4	15MHz	QPSK	20025	1RB#0	-22.54	PASS
Band4	15MHz	QPSK	20025	75RB#0	-33.11	PASS
Band4	15MHz	QPSK	20325	1RB#74	-21.77	PASS
Band4	15MHz	QPSK	20325	75RB#0	-32.88	PASS
Band4	15MHz	64QAM	20025	1RB#0	-22.00	PASS
Band4	15MHz	64QAM	20025	75RB#0	-33.19	PASS
Band4	15MHz	64QAM	20325	1RB#74	-21.43	PASS
Band4	15MHz	64QAM	20325	75RB#0	-32.12	PASS
Band4	15MHz	16QAM	20025	1RB#0	-23.75	PASS
Band4	15MHz	16QAM	20025	75RB#0	-33.56	PASS
Band4	15MHz	16QAM	20325	1RB#74	-21.40	PASS
Band4	15MHz	16QAM	20325	75RB#0	-33.00	PASS
Band4	20MHz	QPSK	20050	1RB#0	-23.90	PASS
Band4	20MHz	QPSK	20050	100RB#0	-32.99	PASS
Band4	20MHz	QPSK	20300	1RB#99	-23.46	PASS
Band4	20MHz	QPSK	20300	100RB#0	-33.14	PASS
Band4	20MHz	64QAM	20050	1RB#0	-23.50	PASS
Band4	20MHz	64QAM	20050	100RB#0	-32.86	PASS
Band4	20MHz	64QAM	20300	1RB#99	-22.37	PASS
Band4	20MHz	64QAM	20300	100RB#0	-32.50	PASS
Band4	20MHz	16QAM	20050	1RB#0	-23.87	PASS
Band4	20MHz	16QAM	20050	100RB#0	-33.12	PASS

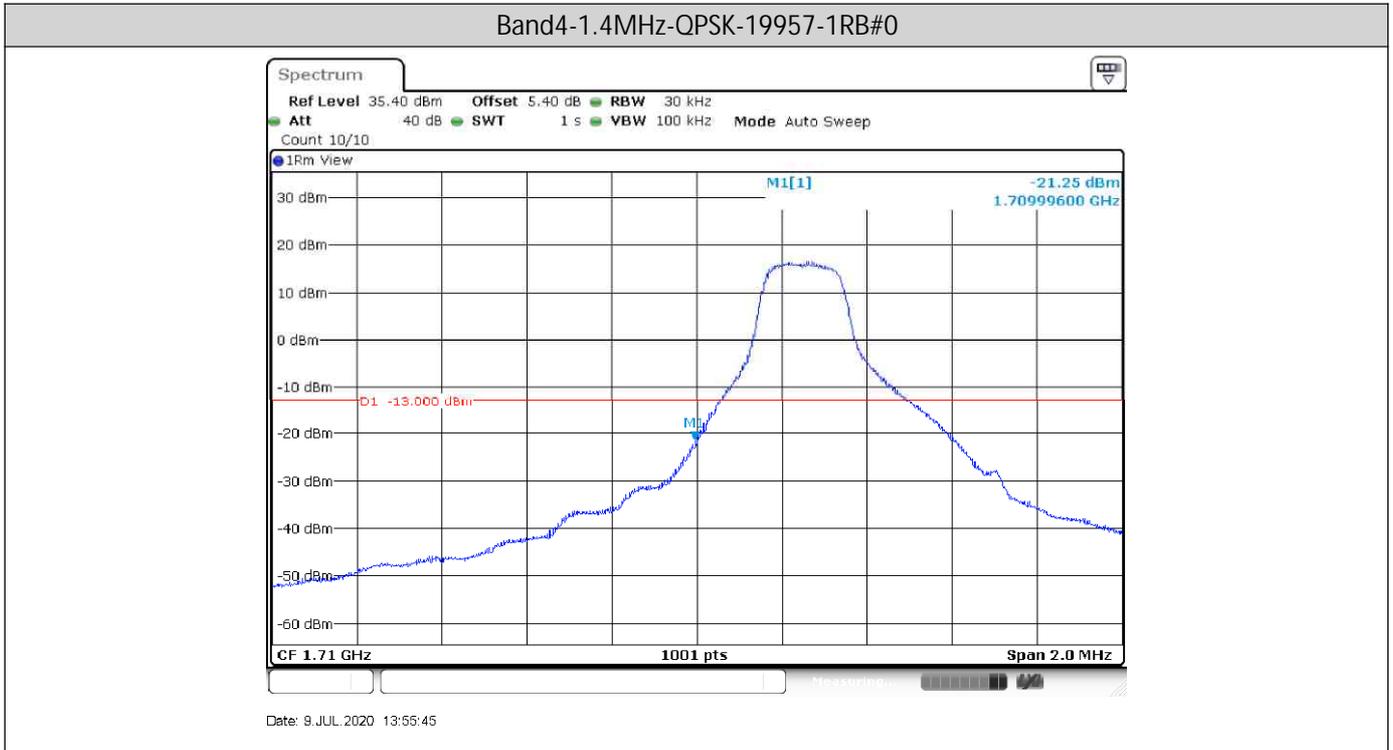


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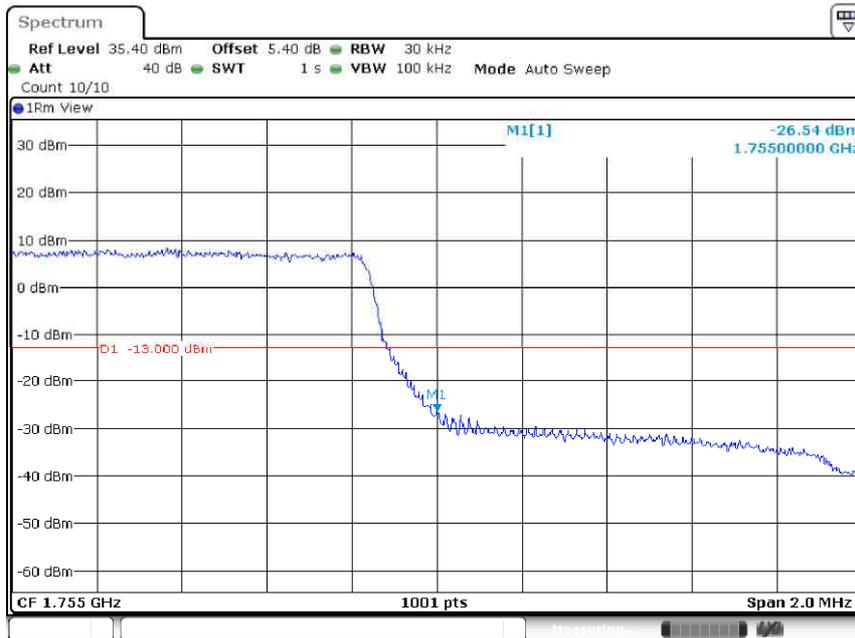
Band4	20MHz	16QAM	20300	1RB#99	-23.50	PASS
Band4	20MHz	16QAM	20300	100RB#0	-32.80	PASS

5.2. Test Plots



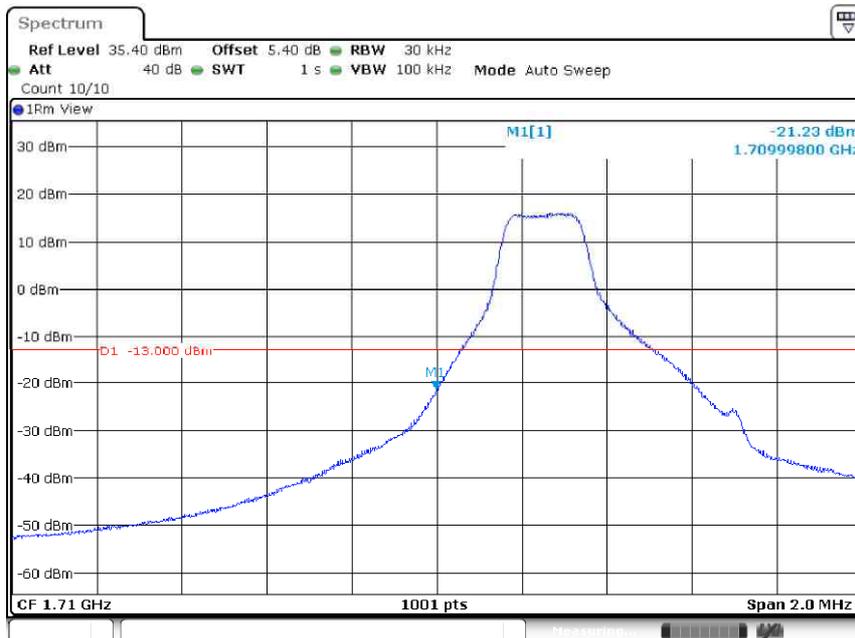
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Band4-1.4MHz-QPSK-20393-6RB#0



Date: 9 JUL 2020 13:57:52

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



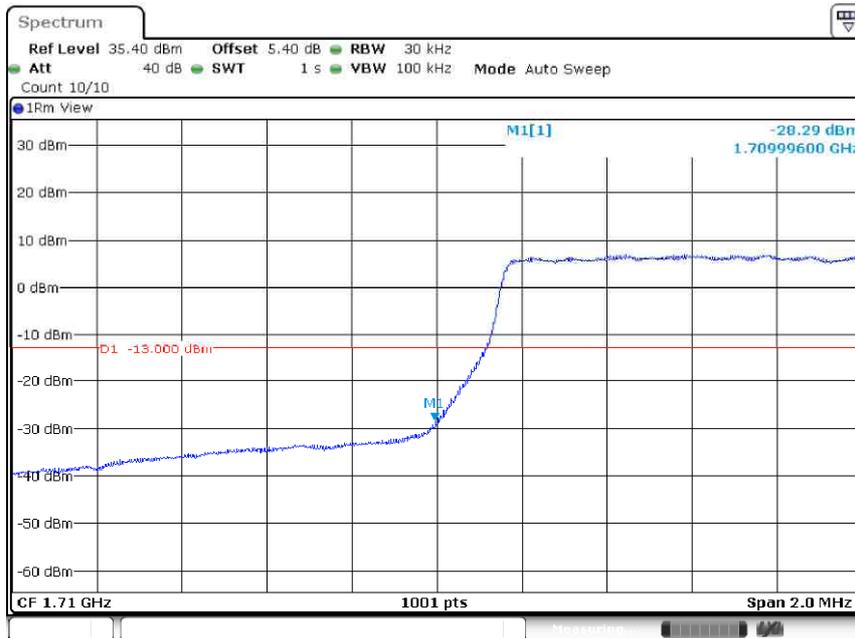
Date: 14 JUL 2020 07:00:27



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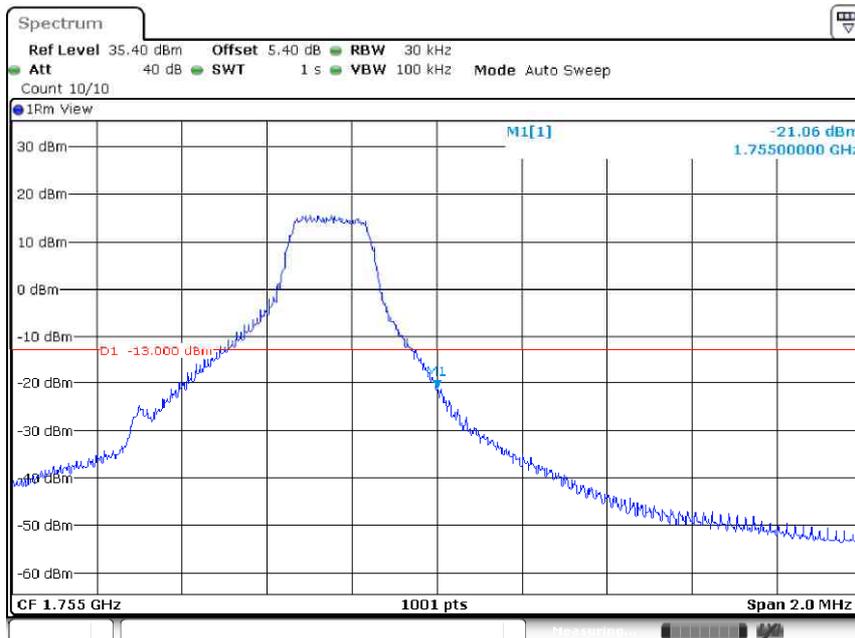


Band4-1.4MHz-16QAM-19957-6RB#0



Date: 9.JUL.2020 13:56:46

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



Date: 9.JUL.2020 13:57:31



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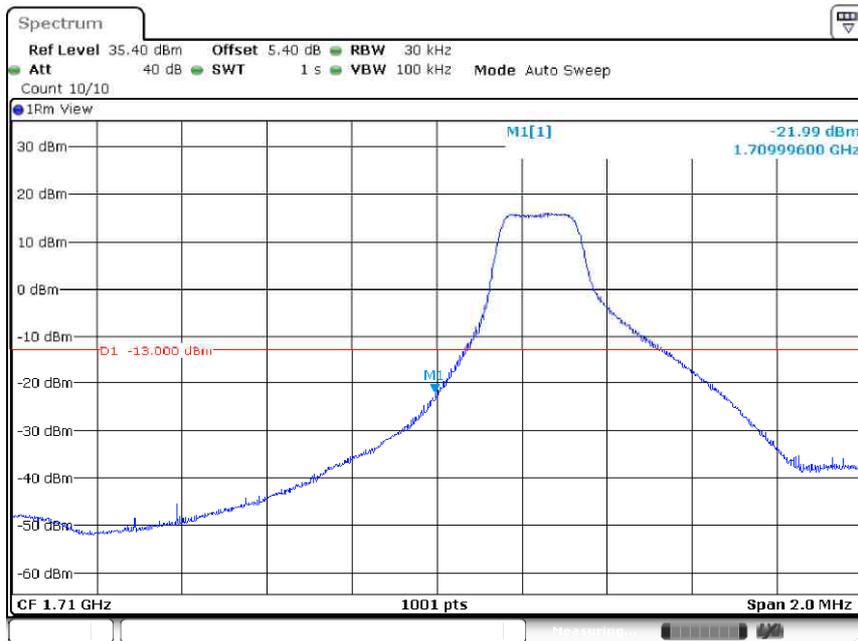


Band4-3MHz-QPSK-20385-15RB#0



Date: 9.JUL.2020 14:00:45

Band4-3MHz-64QAM-19965-1RB#0



Date: 14.JUL.2020 07:02:00



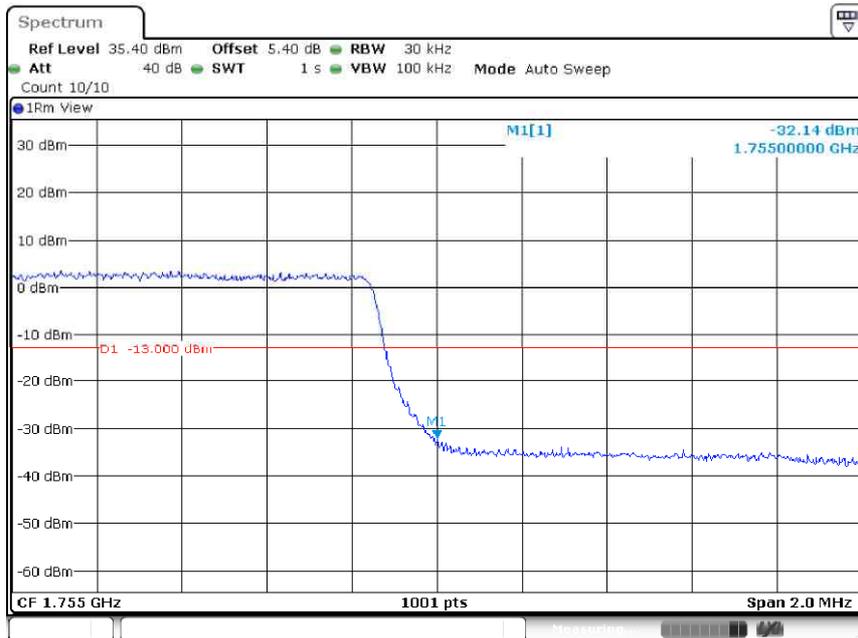
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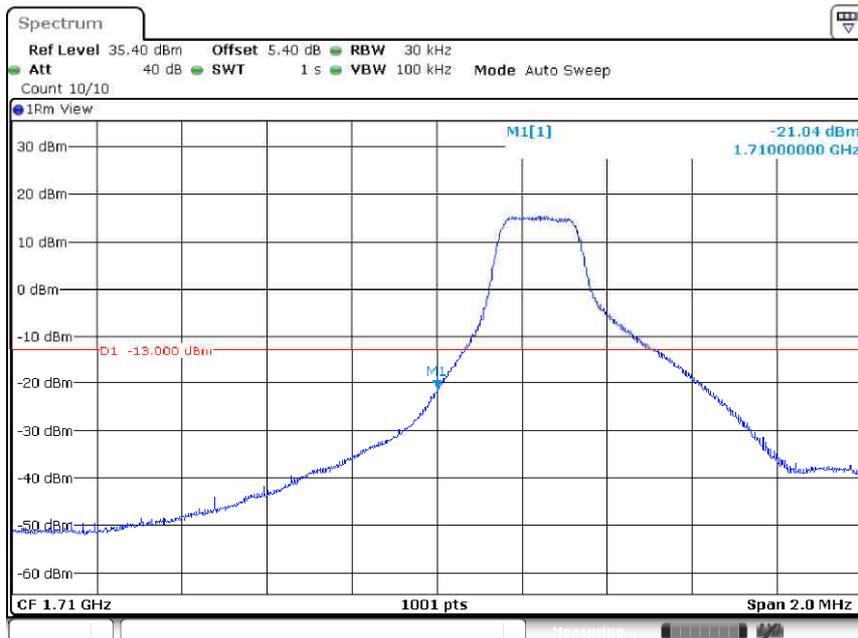


Band4-3MHz-64QAM-20385-15RB#0



Date: 14.JUL.2020 07:03:06

Band4-3MHz-16QAM-19965-1RB#0



Date: 9.JUL.2020 13:58:58

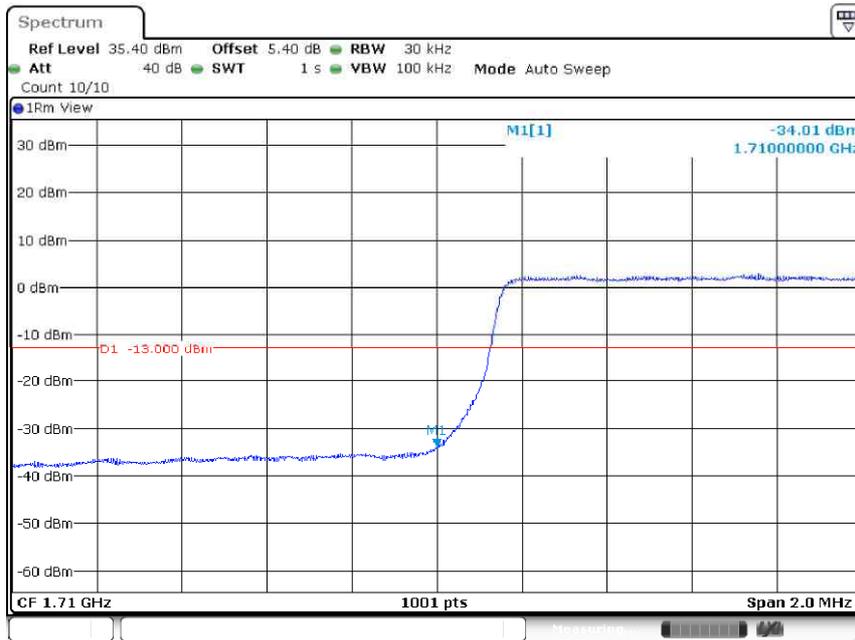


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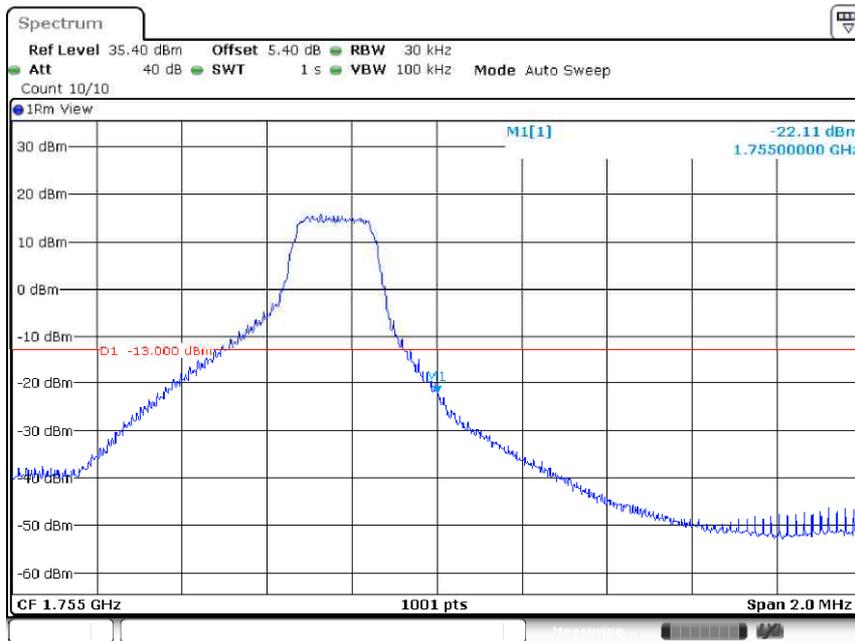


Band4-3MHz-16QAM-19965-15RB#0



Date: 9.JUL.2020 13:59:40

Band4-3MHz-16QAM-20385-1RB#14



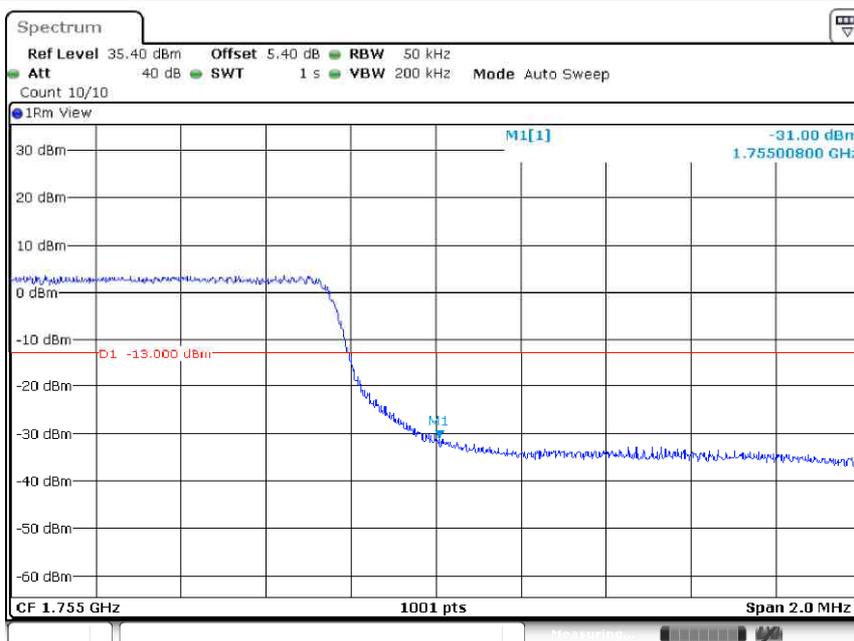
Date: 9.JUL.2020 14:00:25



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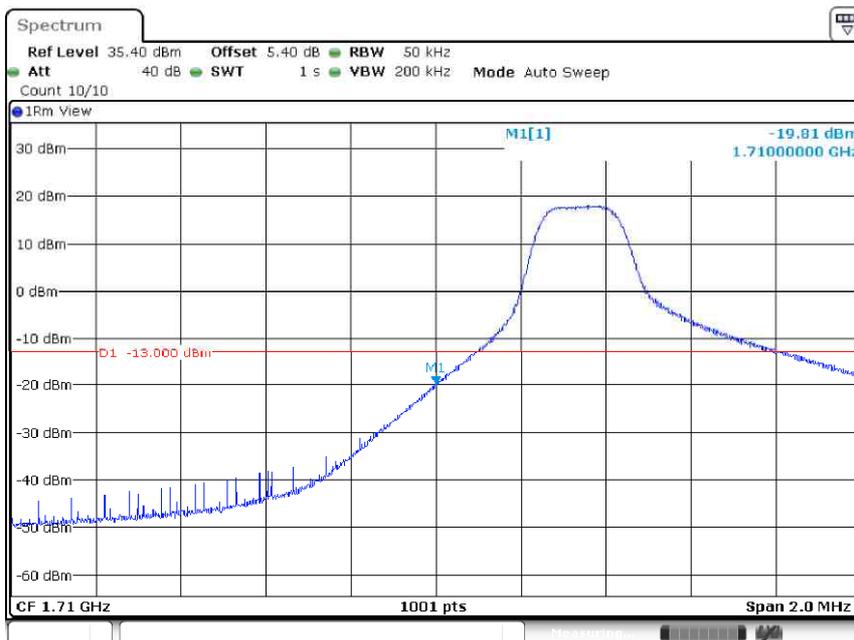


Band4-5MHz-QPSK-20375-25RB#0



Date: 9.JUL.2020 14:03:39

Band4-5MHz-64QAM-19975-1RB#0



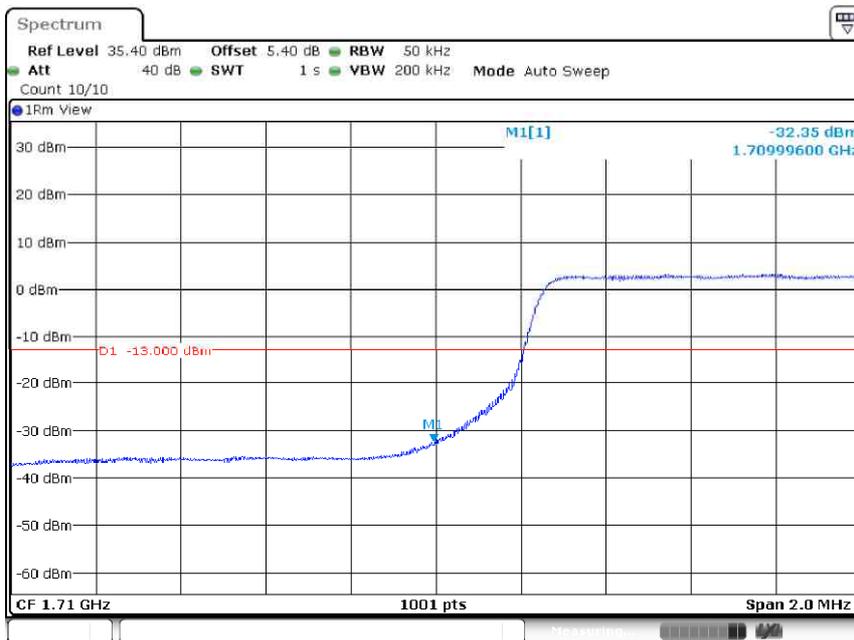
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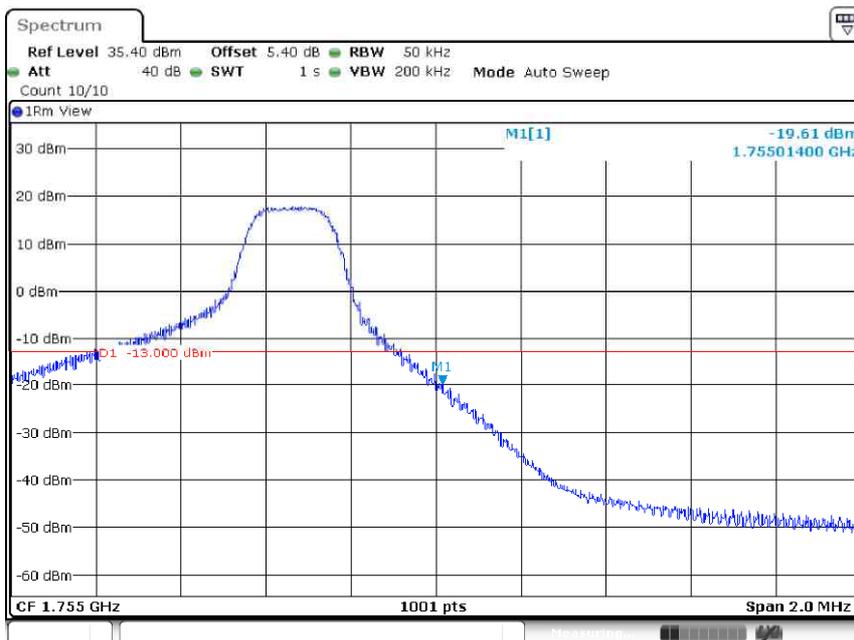


Band4-5MHz-64QAM-19975-25RB#0



Date: 14.JUL.2020 07:03:53

Band4-5MHz-64QAM-20375-1RB#24



Date: 14.JUL.2020 07:04:18



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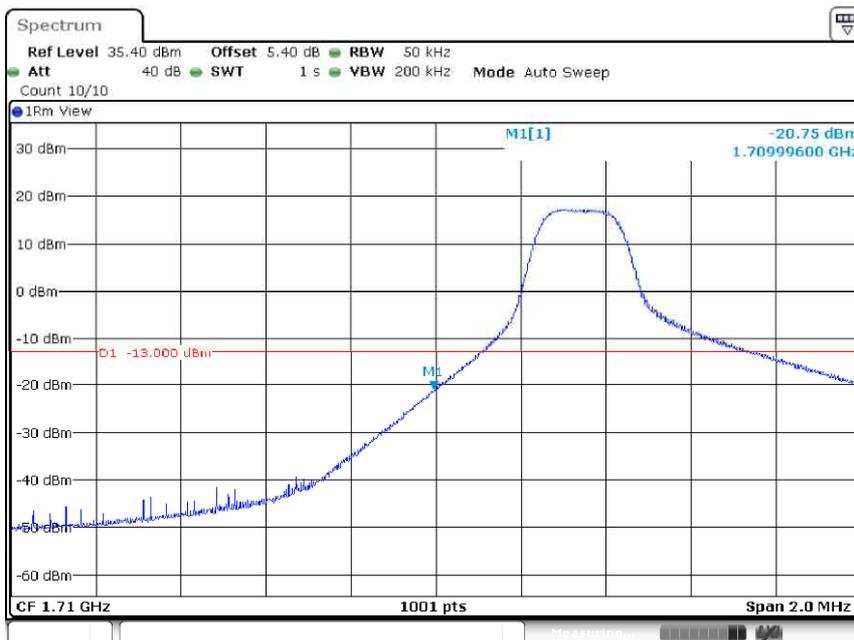


Band4-5MHz-64QAM-20375-25RB#0



Date: 14.JUL.2020 07:04:38

Band4-5MHz-16QAM-19975-1RB#0



Date: 9.JUL.2020 14:01:52



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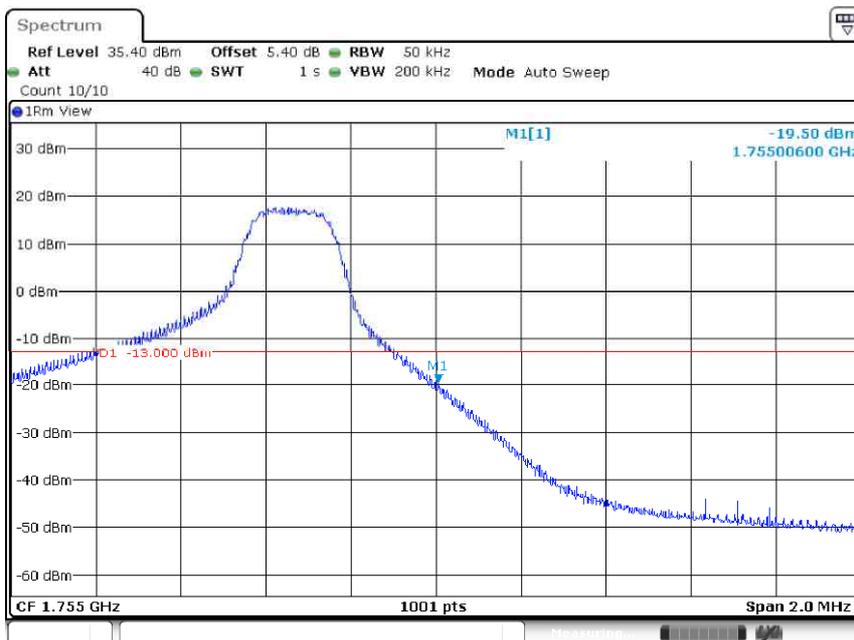


Band4-5MHz-16QAM-19975-25RB#0



Date: 9.JUL.2020 14:02:33

Band4-5MHz-16QAM-20375-1RB#24



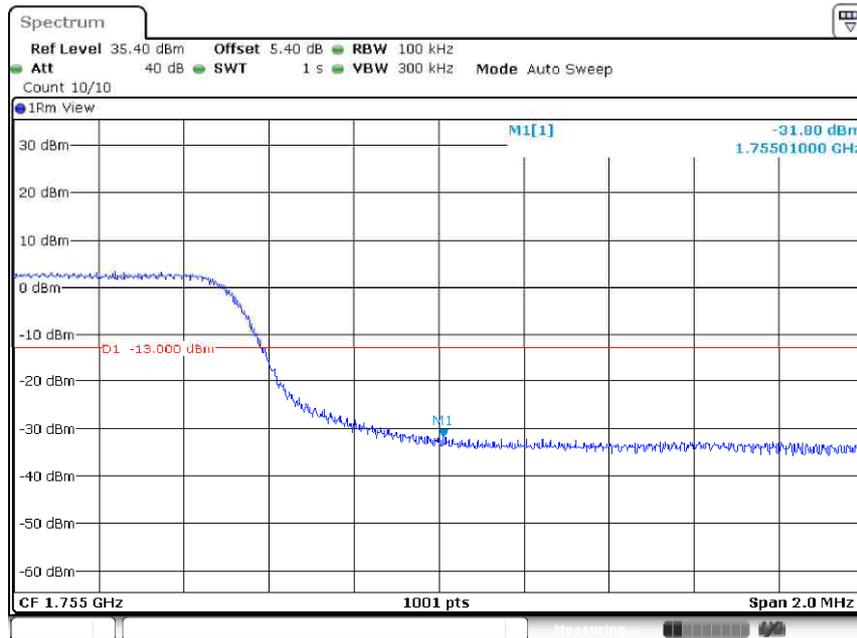
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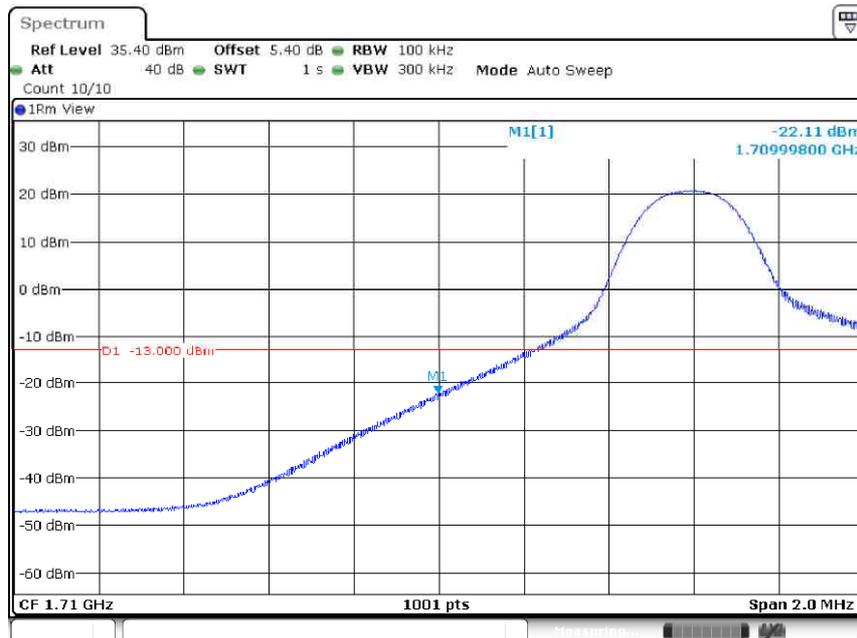


Band4-10MHz-QPSK-20350-50RB#0



Date: 9 JUL 2020 14:06:47

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

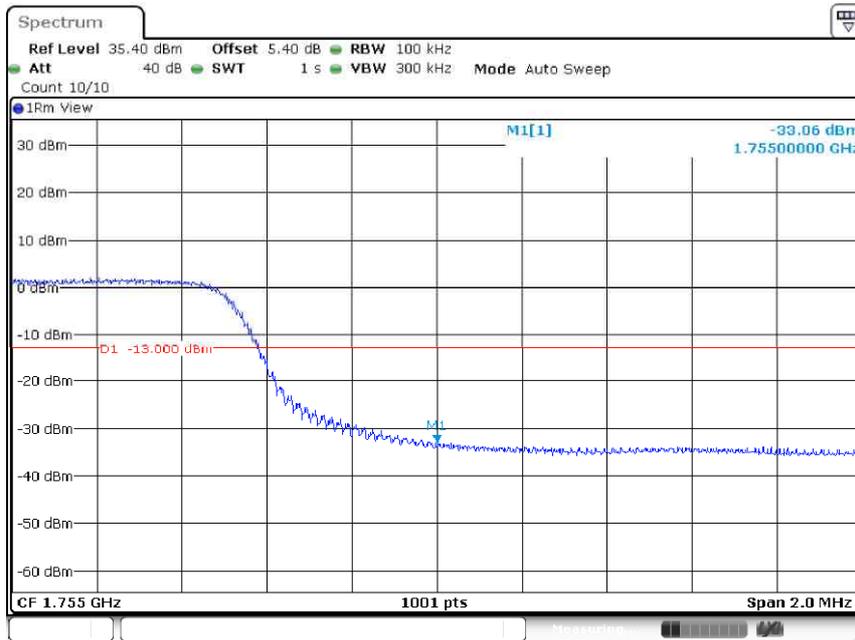


Date: 14 JUL 2020 07:05:04



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



Date: 9.JUL.2020 14:07:08

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



Date: 9.JUL.2020 14:07:33



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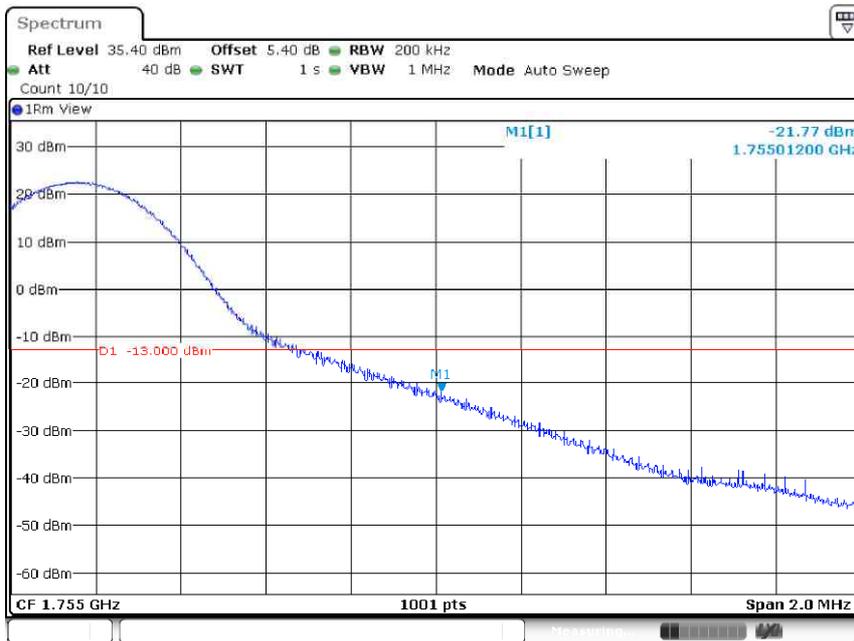


Band4-15MHz-QPSK-20025-75RB#0



Date: 9.JUL.2020 14:08:14

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



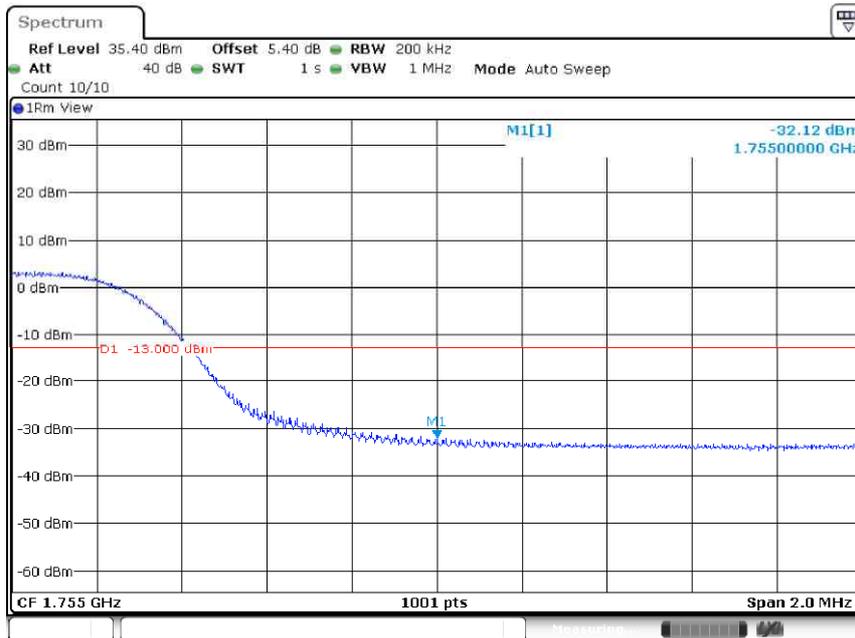
Date: 9.JUL.2020 14:08:59



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



Date: 14.JUL.2020 07:07:44

Band4-15MHz-16QAM-20025-1RB#0



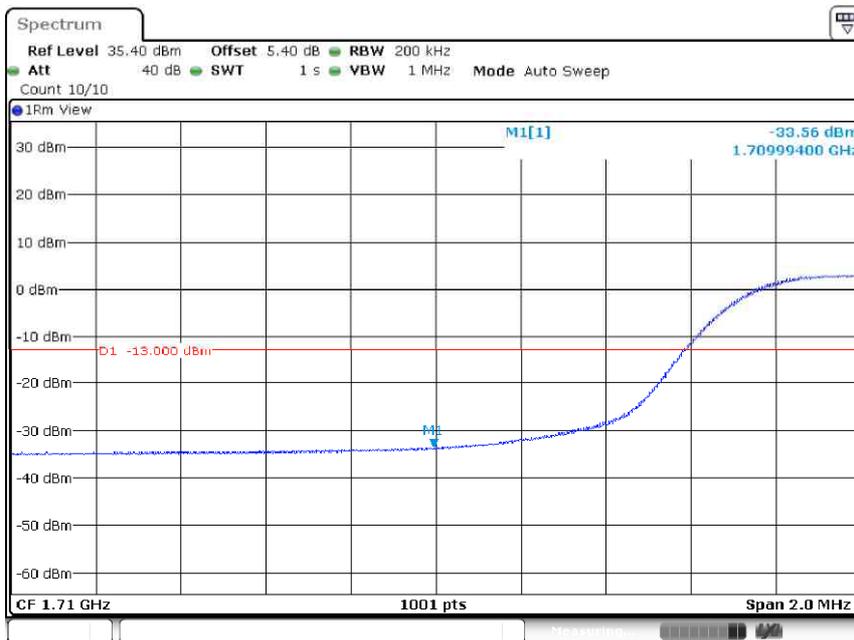
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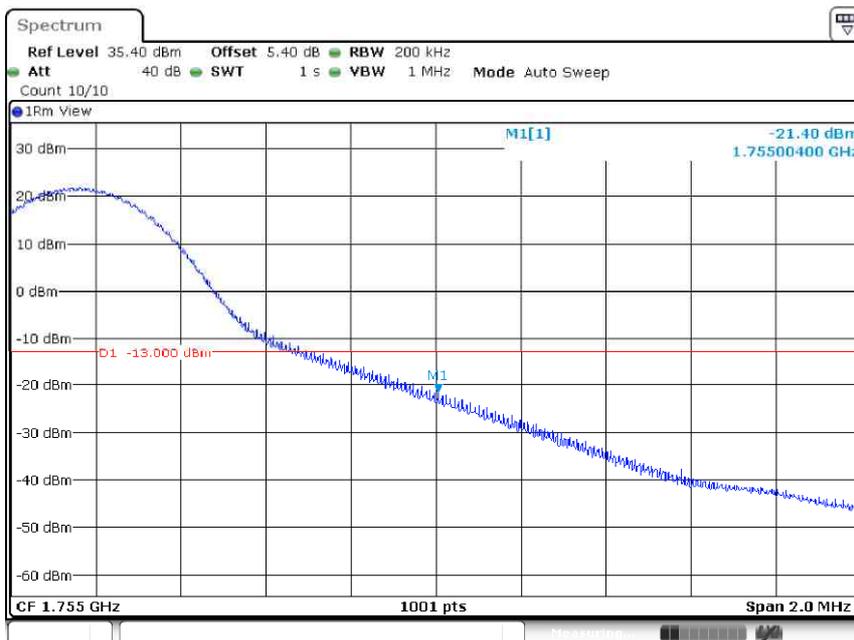


Band4-15MHz-16QAM-20025-75RB#0



Date: 9.JUL.2020 14:08:34

Band4-15MHz-16QAM-20325-1RB#74



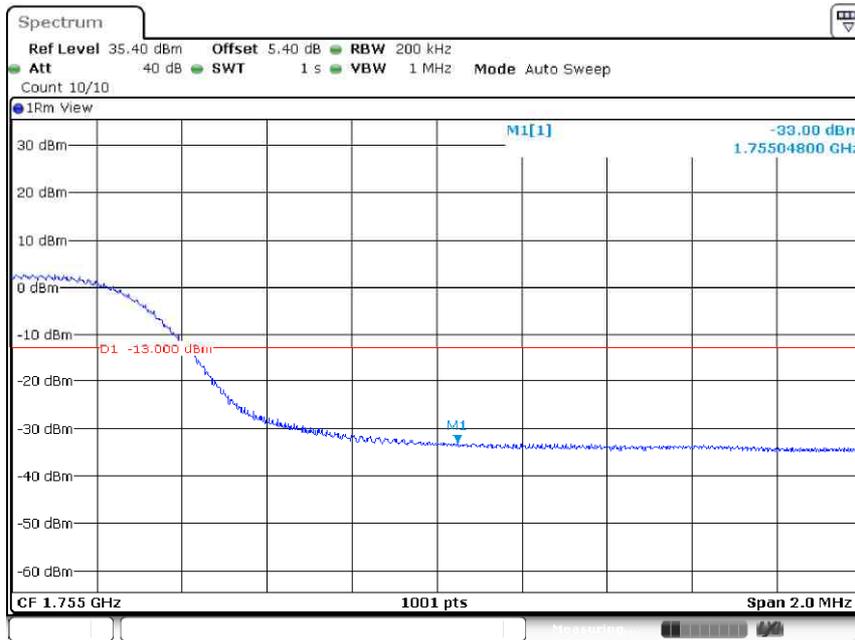
Date: 9.JUL.2020 14:09:19



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



Date: 9.JUL.2020 14:10:00

Band4-20MHz-QPSK-20050-1RB#0



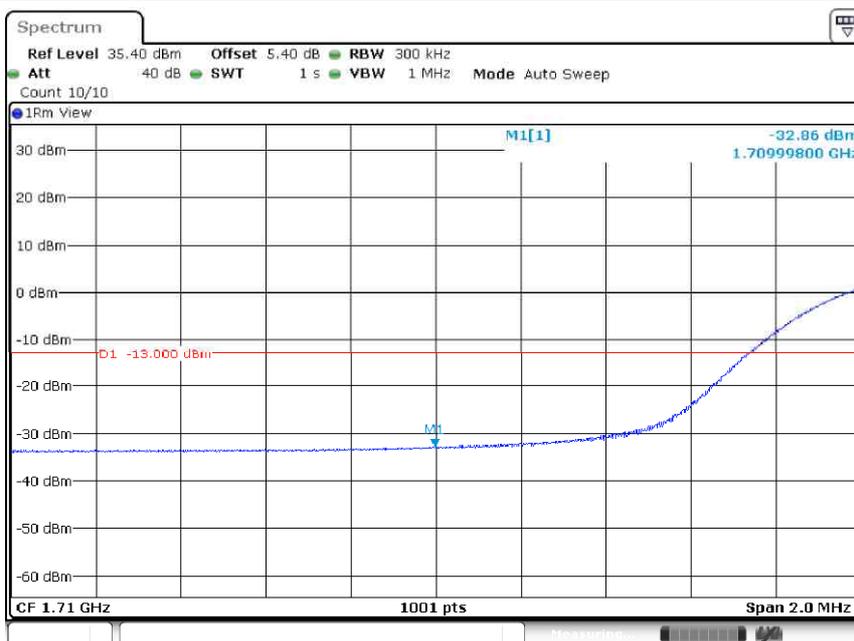
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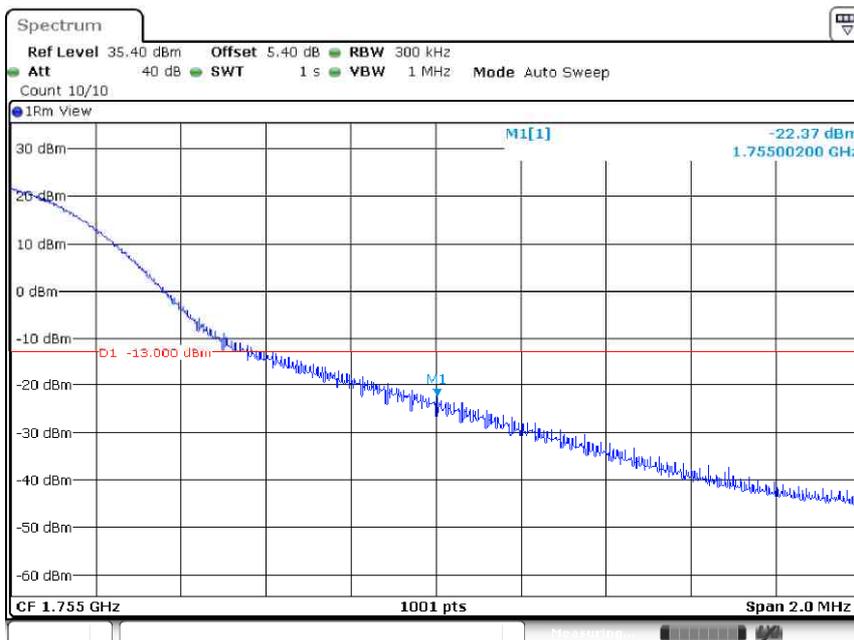


Band4-20MHz-64QAM-20050-100RB#0



Date: 14.JUL.2020 07:08:31

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



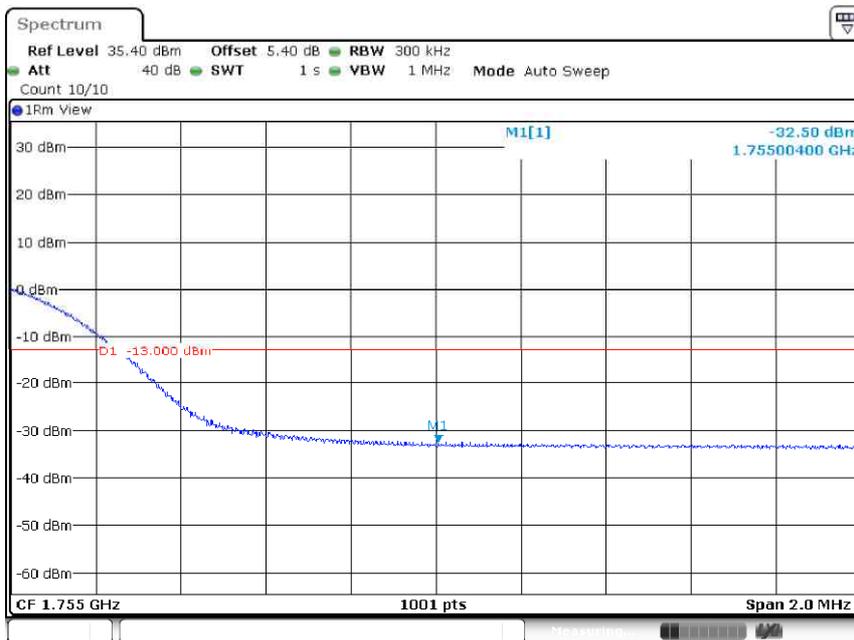
Date: 14.JUL.2020 07:08:56



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



Date: 14.JUL.2020 07:09:17

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



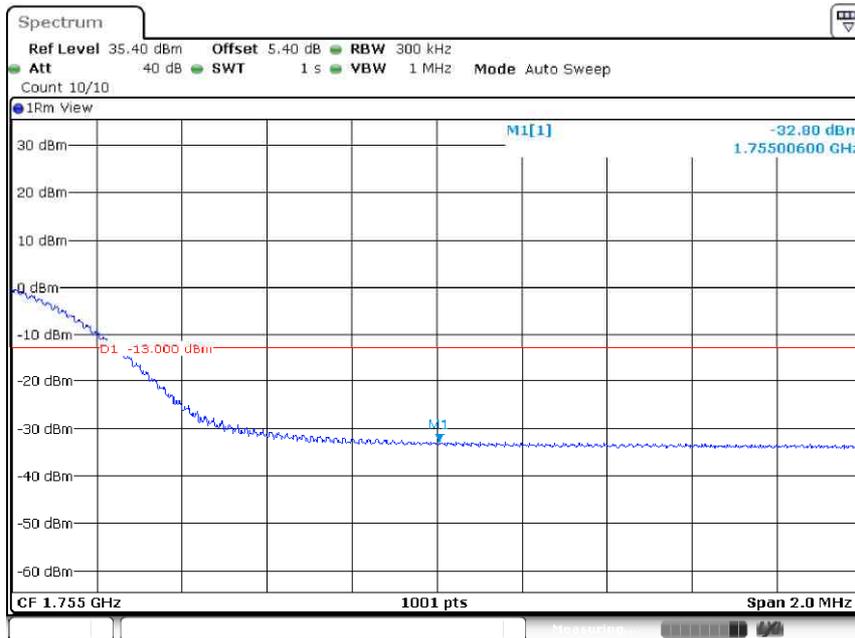
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Band4-20MHz-16QAM-20300-100RB#0



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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 = $k * (Span / RBW)$ " 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.

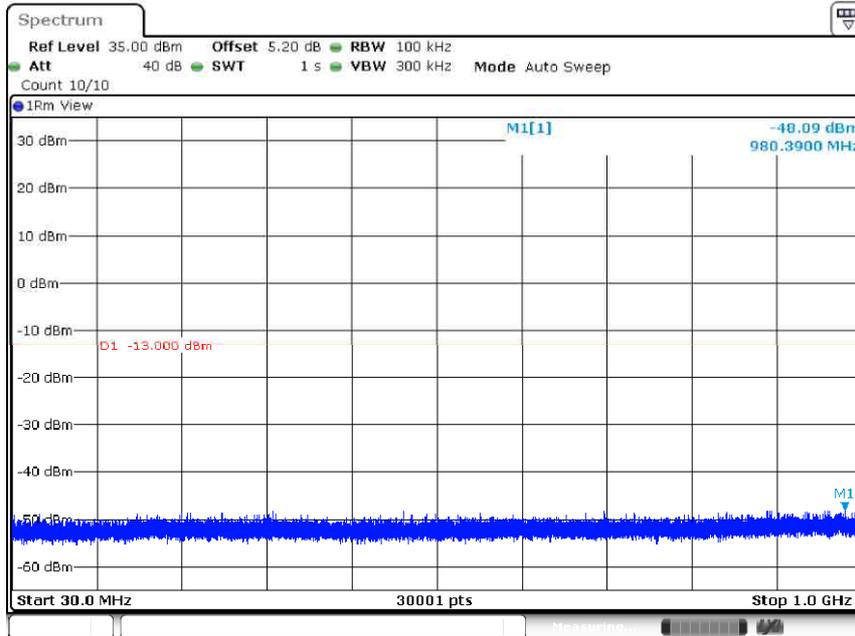


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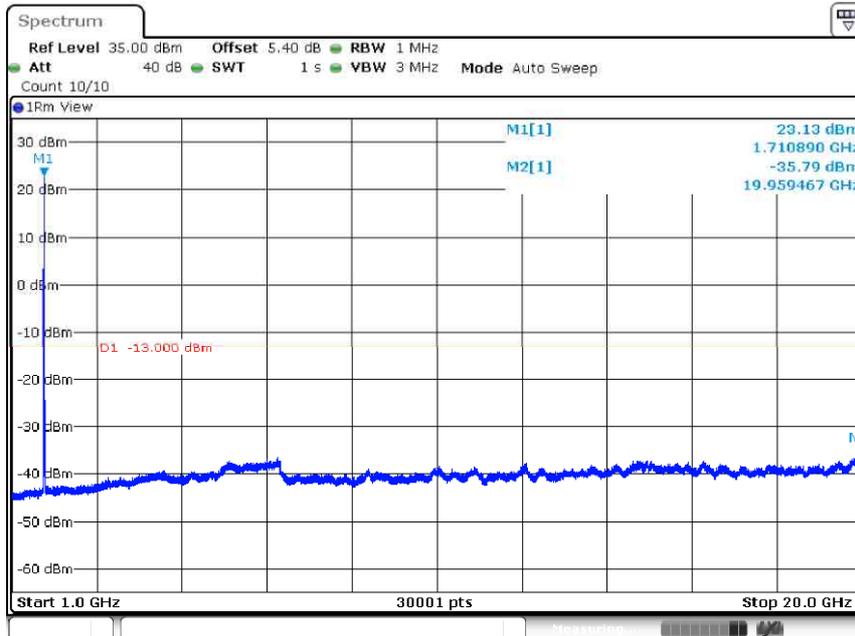
6.1. Test Plots

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



Date: 9.JUL.2020 14:13:16

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

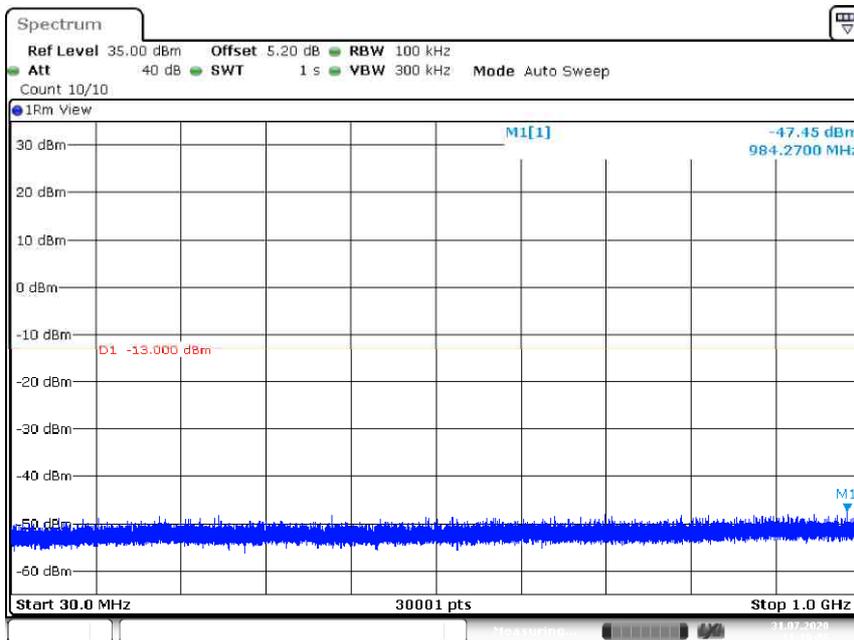


Date: 9.JUL.2020 14:13:32



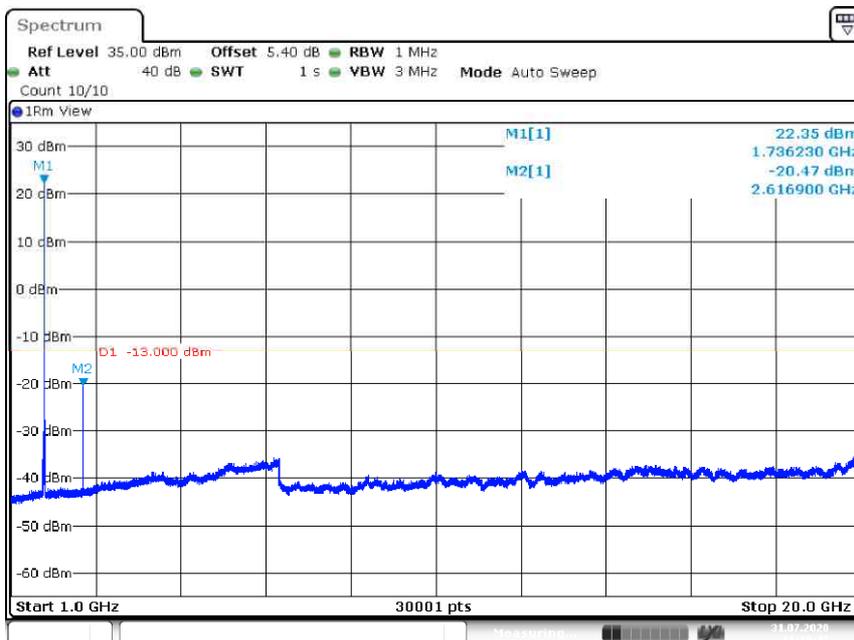
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Band4-20MHz-64QAM-20300-1RB#0-Range1:30-1000MHz



Date: 31.JUL.2020 11:19:27

Band4-20MHz-64QAM-20300-1RB#0-Range2:1000-20000MHz



Date: 31.JUL.2020 11:19:43



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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 20MHz

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
51.6806	-72.25	-13.00	59.25	Vertical
110.8535	-64.92	-13.00	51.92	Vertical
460.7015	-67.12	-13.00	54.12	Vertical
3422.5141	-55.03	-13.00	42.03	Vertical
7417.1472	-55.45	-13.00	42.45	Vertical
17999.5000	-39.71	-13.00	26.71	Vertical
39.2155	-63.79	-13.00	50.79	Horizontal
249.7160	-68.38	-13.00	55.38	Horizontal
593.5012	-63.83	-13.00	50.83	Horizontal
3422.0141	-50.93	-13.00	37.93	Horizontal
7449.6483	-56.09	-13.00	43.09	Horizontal
16391.9464	-43.60	-13.00	30.60	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.5764	-73.45	-13.00	60.45	Vertical
113.6667	-64.47	-13.00	51.47	Vertical
470.4505	-66.30	-13.00	53.30	Vertical
3447.5149	-59.21	-13.00	46.21	Vertical
7420.1473	-55.68	-13.00	42.68	Vertical
17996.4999	-39.90	-13.00	26.90	Vertical
41.5921	-64.61	-13.00	51.61	Horizontal
231.6246	-68.72	-13.00	55.72	Horizontal
575.1673	-65.16	-13.00	52.16	Horizontal
3447.0149	-55.56	-13.00	42.56	Horizontal
8010.6670	-56.00	-13.00	43.00	Horizontal
16390.4463	-43.45	-13.00	30.45	Horizontal



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8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	VL	NT	-7.20	-0.004186	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VN	NT	-5.80	-0.003372	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VH	NT	-2.60	-0.001512	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	-1.30	-0.000750	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	0.80	0.000462	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-5.70	-0.003290	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VL	NT	-1.80	-0.001032	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VN	NT	-6.00	-0.003438	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VH	NT	-4.20	-0.002407	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VL	NT	-9.30	-0.005407	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VN	NT	-10.80	-0.006279	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VH	NT	-2.60	-0.001512	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VL	NT	0.60	0.000346	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VN	NT	-3.90	-0.002251	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VH	NT	-6.10	-0.003521	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VL	NT	-5.90	-0.003381	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VN	NT	-2.80	-0.001605	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VH	NT	-3.50	-0.002006	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VL	NT	-9.20	-0.005349	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VN	NT	-7.80	-0.004535	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VH	NT	-6.20	-0.003605	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VL	NT	-0.70	-0.000404	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VN	NT	-0.20	-0.000115	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VH	NT	-0.40	-0.000231	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VL	NT	-2.90	-0.001662	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VN	NT	-6.30	-0.003610	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VH	NT	0.40	0.000229	±2.5	PASS



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8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	NV	-30	-6.60	-0.003837	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	-20	-7.30	-0.004244	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	-10	-5.56	-0.003233	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	0	-10.70	-0.006221	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	10	-5.00	-0.002907	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	20	-4.20	-0.002442	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	30	-3.80	-0.002209	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	40	-7.30	-0.004244	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	50	-4.60	-0.002674	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	0.50	0.000289	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-5.90	-0.003405	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	-4.93	-0.002846	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-3.40	-0.001962	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-7.30	-0.004214	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	-0.90	-0.000519	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-8.20	-0.004733	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-4.30	-0.002482	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-4.70	-0.002713	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-30	-7.20	-0.004126	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-20	-5.00	-0.002865	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-10	-3.77	-0.002160	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	0	-5.50	-0.003152	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	10	-0.90	-0.000516	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	20	-4.40	-0.002521	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	30	-5.80	-0.003324	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	40	-2.20	-0.001261	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	50	-4.30	-0.002464	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	-30	-0.30	-0.000174	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	-20	-6.20	-0.003605	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	-10	-4.75	-0.002762	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	0	-6.10	-0.003547	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	10	-5.20	-0.003023	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	20	-6.30	-0.003663	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	30	-3.70	-0.002151	±2.5	PASS



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Band4	20MHz	64QAM	20050	100RB#0	NV	40	-6.60	-0.003837	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	50	-4.70	-0.002733	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	-30	-7.00	-0.004040	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	-20	-5.80	-0.003348	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	-10	-3.44	-0.001986	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	0	-1.20	-0.000693	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	10	-4.60	-0.002655	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	20	-3.70	-0.002136	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	30	-6.20	-0.003579	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	40	-2.90	-0.001674	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	50	-6.10	-0.003521	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	-30	-2.10	-0.001203	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	-20	-10.90	-0.006246	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	-10	-6.56	-0.003759	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	0	-7.70	-0.004413	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	10	-7.70	-0.004413	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	20	-6.40	-0.003668	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	30	-4.70	-0.002693	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	40	-5.10	-0.002923	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	50	-3.30	-0.001891	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-30	-8.70	-0.005058	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-20	-8.40	-0.004884	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-10	-8.95	-0.005203	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	0	-3.90	-0.002267	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	10	-3.90	-0.002267	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	20	-5.40	-0.003140	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	30	-9.60	-0.005581	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	40	-11.30	-0.006570	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	50	-8.40	-0.004884	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-30	-3.20	-0.001847	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-20	-2.80	-0.001616	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-10	-2.54	-0.001466	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	0	-0.60	-0.000346	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	10	-2.60	-0.001501	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	20	-5.10	-0.002944	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	30	-0.30	-0.000173	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	40	-3.10	-0.001789	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	50	2.70	0.001558	±2.5	PASS



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