Appendix B

E-UTRA Band 38

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CONTENT

1 EFFECTIVE (ISOTROPIC) RADIATED POWER 3

1.1. TEST RESULT 3

2. PEAK-TO-AVERAGE RATIO (CCDF) 11

2.1. TEST RESULT 11

2.2. TEST PLOTS 11

3. MODULATION CHARACTERISTICS 16

3.1. TEST MODE = LTE /TM1 20MHZ 16

3.1.1. TEST CHANNEL = MCH 16

3.2. TEST MODE = LTE /TM2 20MHZ 17

3.2.1. TEST CHANNEL = MCH 17

3.3. TEST MODE = LTE /TM3 20MHZ 18

3.3.1. TEST CHANNEL = MCH 18

4. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH 19

4.1. TEST RESULT 19

4.2. TEST PLOTS 20

5. BAND EDGE COMPLIANCE 39

5.1. TEST RESULT 39

5.2. TEST PLOTS 40

6. SPURIOUS EMISSION AT ANTENNA TERMINAL 65

6.1. TEST PLOTS 65

7. FIELD STRENGTH OF SPURIOUS RADIATION 75

7.1. TEST MODE =LTE/TM1 20MHZ 75

7.1.1. TEST CHANNEL = LCH 75

7.1.2. TEST CHANNEL = MCH 75

7.1.3. TEST CHANNEL = HCH 76

8. FREQUENCY STABILITY 77

8.1. FREQUENCY VS VOLTAGE 77

8.2. FREQUENCY VS TEMPERATURE 78

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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	22.82	22.22	33	PASS
Band38	5MHz	QPSK	37775	1RB#12	22.90	22.30	33	PASS
Band38	5MHz	QPSK	37775	1RB#24	22.66	22.06	33	PASS
Band38	5MHz	QPSK	37775	12RB#0	21.75	21.15	33	PASS
Band38	5MHz	QPSK	37775	12RB#6	21.80	21.20	33	PASS
Band38	5MHz	QPSK	37775	12RB#13	21.80	21.20	33	PASS
Band38	5MHz	QPSK	37775	25RB#0	21.79	21.19	33	PASS
Band38	5MHz	QPSK	38000	1RB#0	22.75	22.15	33	PASS
Band38	5MHz	QPSK	38000	1RB#12	22.74	22.14	33	PASS
Band38	5MHz	QPSK	38000	1RB#24	22.59	21.99	33	PASS
Band38	5MHz	QPSK	38000	12RB#0	21.59	20.99	33	PASS
Band38	5MHz	QPSK	38000	12RB#6	21.63	21.03	33	PASS
Band38	5MHz	QPSK	38000	12RB#13	21.60	21.00	33	PASS
Band38	5MHz	QPSK	38000	25RB#0	21.67	21.07	33	PASS
Band38	5MHz	QPSK	38225	1RB#0	22.91	22.31	33	PASS
Band38	5MHz	QPSK	38225	1RB#12	22.65	22.05	33	PASS
Band38	5MHz	QPSK	38225	1RB#24	22.52	21.92	33	PASS
Band38	5MHz	QPSK	38225	12RB#0	21.63	21.03	33	PASS
Band38	5MHz	QPSK	38225	12RB#6	21.58	20.98	33	PASS
Band38	5MHz	QPSK	38225	12RB#13	21.67	21.07	33	PASS
Band38	5MHz	QPSK	38225	25RB#0	21.60	21.00	33	PASS
Band38	5MHz	64QAM	37775	1RB#0	21.03	20.43	33	PASS
Band38	5MHz	64QAM	37775	1RB#12	20.73	20.13	33	PASS
Band38	5MHz	64QAM	37775	1RB#24	20.60	20.00	33	PASS
Band38	5MHz	64QAM	37775	12RB#0	19.82	19.22	33	PASS
Band38	5MHz	64QAM	37775	12RB#6	19.69	19.09	33	PASS
Band38	5MHz	64QAM	37775	12RB#13	19.84	19.24	33	PASS

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Band38	5MHz	64QAM	37775	25RB#0	19.77	19.17	33	PASS
Band38	5MHz	64QAM	38000	1RB#0	20.68	20.08	33	PASS
Band38	5MHz	64QAM	38000	1RB#12	20.54	19.94	33	PASS
Band38	5MHz	64QAM	38000	1RB#24	20.51	19.91	33	PASS
Band38	5MHz	64QAM	38000	12RB#0	19.55	18.95	33	PASS
Band38	5MHz	64QAM	38000	12RB#6	19.57	18.97	33	PASS
Band38	5MHz	64QAM	38000	12RB#13	19.54	18.94	33	PASS
Band38	5MHz	64QAM	38000	25RB#0	19.71	19.11	33	PASS
Band38	5MHz	64QAM	38225	1RB#0	20.62	20.02	33	PASS
Band38	5MHz	64QAM	38225	1RB#12	20.54	19.94	33	PASS
Band38	5MHz	64QAM	38225	1RB#24	20.92	20.32	33	PASS
Band38	5MHz	64QAM	38225	12RB#0	19.54	18.94	33	PASS
Band38	5MHz	64QAM	38225	12RB#6	19.67	19.07	33	PASS
Band38	5MHz	64QAM	38225	12RB#13	19.55	18.95	33	PASS
Band38	5MHz	64QAM	38225	25RB#0	19.71	19.11	33	PASS
Band38	5MHz	16QAM	37775	1RB#0	21.97	21.37	33	PASS
Band38	5MHz	16QAM	37775	1RB#12	21.89	21.29	33	PASS
Band38	5MHz	16QAM	37775	1RB#24	21.77	21.17	33	PASS
Band38	5MHz	16QAM	37775	12RB#0	20.79	20.19	33	PASS
Band38	5MHz	16QAM	37775	12RB#6	20.77	20.17	33	PASS
Band38	5MHz	16QAM	37775	12RB#13	20.76	20.16	33	PASS
Band38	5MHz	16QAM	37775	25RB#0	20.78	20.18	33	PASS
Band38	5MHz	16QAM	38000	1RB#0	21.81	21.21	33	PASS
Band38	5MHz	16QAM	38000	1RB#12	21.78	21.18	33	PASS
Band38	5MHz	16QAM	38000	1RB#24	21.75	21.15	33	PASS
Band38	5MHz	16QAM	38000	12RB#0	20.59	19.99	33	PASS
Band38	5MHz	16QAM	38000	12RB#6	20.61	20.01	33	PASS
Band38	5MHz	16QAM	38000	12RB#13	20.55	19.95	33	PASS
Band38	5MHz	16QAM	38000	25RB#0	20.63	20.03	33	PASS
Band38	5MHz	16QAM	38225	1RB#0	21.84	21.24	33	PASS
Band38	5MHz	16QAM	38225	1RB#12	21.78	21.18	33	PASS
Band38	5MHz	16QAM	38225	1RB#24	21.87	21.27	33	PASS
Band38	5MHz	16QAM	38225	12RB#0	20.64	20.04	33	PASS

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Band38	5MHz	16QAM	38225	12RB#13	20.65	20.05	33	PASS
Band38	5MHz	16QAM	38225	25RB#0	20.64	20.04	33	PASS
Band38	10MHz	QPSK	37800	1RB#0	23.04	22.44	33	PASS
Band38	10MHz	QPSK	37800	1RB#24	22.89	22.29	33	PASS
Band38	10MHz	QPSK	37800	1RB#49	23.01	22.41	33	PASS
Band38	10MHz	QPSK	37800	25RB#0	21.81	21.21	33	PASS
Band38	10MHz	QPSK	37800	25RB#12	21.79	21.19	33	PASS
Band38	10MHz	QPSK	37800	25RB#25	21.96	21.36	33	PASS
Band38	10MHz	QPSK	37800	50RB#0	21.99	21.39	33	PASS
Band38	10MHz	QPSK	38000	1RB#0	22.85	22.25	33	PASS
Band38	10MHz	QPSK	38000	1RB#24	22.70	22.10	33	PASS
Band38	10MHz	QPSK	38000	1RB#49	22.86	22.26	33	PASS
Band38	10MHz	QPSK	38000	25RB#0	21.67	21.07	33	PASS
Band38	10MHz	QPSK	38000	25RB#12	21.72	21.12	33	PASS
Band38	10MHz	QPSK	38000	25RB#25	21.80	21.20	33	PASS
Band38	10MHz	QPSK	38000	50RB#0	21.85	21.25	33	PASS
Band38	10MHz	QPSK	38200	1RB#0	22.72	22.12	33	PASS
Band38	10MHz	QPSK	38200	1RB#24	22.75	22.15	33	PASS
Band38	10MHz	QPSK	38200	1RB#49	22.93	22.33	33	PASS
Band38	10MHz	QPSK	38200	25RB#0	21.75	21.15	33	PASS
Band38	10MHz	QPSK	38200	25RB#12	21.77	21.17	33	PASS
Band38	10MHz	QPSK	38200	25RB#25	21.91	21.31	33	PASS
Band38	10MHz	QPSK	38200	50RB#0	21.84	21.24	33	PASS
Band38	10MHz	64QAM	37800	1RB#0	21.02	20.42	33	PASS
Band38	10MHz	64QAM	37800	1RB#24	20.76	20.16	33	PASS
Band38	10MHz	64QAM	37800	1RB#49	20.66	20.06	33	PASS
Band38	10MHz	64QAM	37800	25RB#0	19.72	19.12	33	PASS
Band38	10MHz	64QAM	37800	25RB#12	19.73	19.13	33	PASS
Band38	10MHz	64QAM	37800	25RB#25	19.88	19.28	33	PASS
Band38	10MHz	64QAM	37800	50RB#0	19.74	19.14	33	PASS
Band38	10MHz	64QAM	38000	1RB#0	20.73	20.13	33	PASS
Band38	10MHz	64QAM	38000	1RB#24	20.46	19.86	33	PASS

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Band38	10MHz	64QAM	38000	25RB#0	19.60	19.00	33	PASS
Band38	10MHz	64QAM	38000	25RB#12	19.69	19.09	33	PASS
Band38	10MHz	64QAM	38000	25RB#25	19.61	19.01	33	PASS
Band38	10MHz	64QAM	38000	50RB#0	19.80	19.20	33	PASS
Band38	10MHz	64QAM	38200	1RB#0	20.63	20.03	33	PASS
Band38	10MHz	64QAM	38200	1RB#24	20.50	19.90	33	PASS
Band38	10MHz	64QAM	38200	1RB#49	20.94	20.34	33	PASS
Band38	10MHz	64QAM	38200	25RB#0	19.52	18.92	33	PASS
Band38	10MHz	64QAM	38200	25RB#12	19.70	19.10	33	PASS
Band38	10MHz	64QAM	38200	25RB#25	19.45	18.85	33	PASS
Band38	10MHz	64QAM	38200	50RB#0	19.75	19.15	33	PASS
Band38	10MHz	16QAM	37800	1RB#0	22.09	21.49	33	PASS
Band38	10MHz	16QAM	37800	1RB#24	21.94	21.34	33	PASS
Band38	10MHz	16QAM	37800	1RB#49	21.85	21.25	33	PASS
Band38	10MHz	16QAM	37800	25RB#0	21.00	20.40	33	PASS
Band38	10MHz	16QAM	37800	25RB#12	20.89	20.29	33	PASS
Band38	10MHz	16QAM	37800	25RB#25	20.87	20.27	33	PASS
Band38	10MHz	16QAM	37800	50RB#0	21.00	20.40	33	PASS
Band38	10MHz	16QAM	38000	1RB#0	22.03	21.43	33	PASS
Band38	10MHz	16QAM	38000	1RB#24	21.78	21.18	33	PASS
Band38	10MHz	16QAM	38000	1RB#49	21.97	21.37	33	PASS
Band38	10MHz	16QAM	38000	25RB#0	20.87	20.27	33	PASS
Band38	10MHz	16QAM	38000	25RB#12	20.80	20.20	33	PASS
Band38	10MHz	16QAM	38000	25RB#25	20.73	20.13	33	PASS
Band38	10MHz	16QAM	38000	50RB#0	20.90	20.30	33	PASS
Band38	10MHz	16QAM	38200	1RB#0	22.17	21.57	33	PASS
Band38	10MHz	16QAM	38200	1RB#24	21.90	21.30	33	PASS
Band38	10MHz	16QAM	38200	1RB#49	22.07	21.47	33	PASS
Band38	10MHz	16QAM	38200	25RB#0	20.78	20.18	33	PASS
Band38	10MHz	16QAM	38200	25RB#12	20.62	20.02	33	PASS
Band38	10MHz	16QAM	38200	25RB#25	20.77	20.17	33	PASS
Band38	10MHz	16QAM	38200	50RB#0	20.72	20.12	33	PASS

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Band38	15MHz	QPSK	37825	1RB#0	23.43	22.83	33	PASS
Band38	15MHz	QPSK	37825	1RB#38	22.83	22.23	33	PASS
Band38	15MHz	QPSK	37825	1RB#74	23.19	22.59	33	PASS
Band38	15MHz	QPSK	37825	36RB#0	21.98	21.38	33	PASS
Band38	15MHz	QPSK	37825	36RB#18	21.94	21.34	33	PASS
Band38	15MHz	QPSK	37825	36RB#39	21.92	21.32	33	PASS
Band38	15MHz	QPSK	37825	75RB#0	21.85	21.25	33	PASS
Band38	15MHz	QPSK	38000	1RB#0	23.20	22.60	33	PASS
Band38	15MHz	QPSK	38000	1RB#38	22.55	21.95	33	PASS
Band38	15MHz	QPSK	38000	1RB#74	23.06	22.46	33	PASS
Band38	15MHz	QPSK	38000	36RB#0	21.63	21.03	33	PASS
Band38	15MHz	QPSK	38000	36RB#18	21.83	21.23	33	PASS
Band38	15MHz	QPSK	38000	36RB#39	21.77	21.17	33	PASS
Band38	15MHz	QPSK	38000	75RB#0	21.82	21.22	33	PASS
Band38	15MHz	QPSK	38175	1RB#0	22.85	22.25	33	PASS
Band38	15MHz	QPSK	38175	1RB#38	22.84	22.24	33	PASS
Band38	15MHz	QPSK	38175	1RB#74	22.97	22.37	33	PASS
Band38	15MHz	QPSK	38175	36RB#0	21.58	20.98	33	PASS
Band38	15MHz	QPSK	38175	36RB#18	21.61	21.01	33	PASS
Band38	15MHz	QPSK	38175	36RB#39	21.96	21.36	33	PASS
Band38	15MHz	QPSK	38175	75RB#0	21.82	21.22	33	PASS
Band38	15MHz	64QAM	37825	1RB#0	21.02	20.42	33	PASS
Band38	15MHz	64QAM	37825	1RB#38	20.79	20.19	33	PASS
Band38	15MHz	64QAM	37825	1RB#74	20.65	20.05	33	PASS
Band38	15MHz	64QAM	37825	36RB#0	19.78	19.18	33	PASS
Band38	15MHz	64QAM	37825	36RB#18	19.67	19.07	33	PASS
Band38	15MHz	64QAM	37825	36RB#39	19.91	19.31	33	PASS
Band38	15MHz	64QAM	37825	75RB#0	19.76	19.16	33	PASS
Band38	15MHz	64QAM	38000	1RB#0	20.78	20.18	33	PASS
Band38	15MHz	64QAM	38000	1RB#38	20.55	19.95	33	PASS
Band38	15MHz	64QAM	38000	1RB#74	20.53	19.93	33	PASS
Band38	15MHz	64QAM	38000	36RB#0	19.62	19.02	33	PASS
Band38	15MHz	64QAM	38000	36RB#18	19.64	19.04	33	PASS

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Band38	15MHz	64QAM	38000	36RB#39	19.65	19.05	33	PASS
Band38	15MHz	64QAM	38000	75RB#0	19.80	19.20	33	PASS
Band38	15MHz	64QAM	38175	1RB#0	20.68	20.08	33	PASS
Band38	15MHz	64QAM	38175	1RB#38	20.62	20.02	33	PASS
Band38	15MHz	64QAM	38175	1RB#74	20.87	20.27	33	PASS
Band38	15MHz	64QAM	38175	36RB#0	19.60	19.00	33	PASS
Band38	15MHz	64QAM	38175	36RB#18	19.71	19.11	33	PASS
Band38	15MHz	64QAM	38175	36RB#39	19.52	18.92	33	PASS
Band38	15MHz	64QAM	38175	75RB#0	19.77	19.17	33	PASS
Band38	15MHz	16QAM	37825	1RB#0	22.44	21.84	33	PASS
Band38	15MHz	16QAM	37825	1RB#38	21.92	21.32	33	PASS
Band38	15MHz	16QAM	37825	1RB#74	21.96	21.36	33	PASS
Band38	15MHz	16QAM	37825	36RB#0	20.80	20.20	33	PASS
Band38	15MHz	16QAM	37825	36RB#18	20.97	20.37	33	PASS
Band38	15MHz	16QAM	37825	36RB#39	20.85	20.25	33	PASS
Band38	15MHz	16QAM	37825	75RB#0	20.92	20.32	33	PASS
Band38	15MHz	16QAM	38000	1RB#0	21.96	21.36	33	PASS
Band38	15MHz	16QAM	38000	1RB#38	21.58	20.98	33	PASS
Band38	15MHz	16QAM	38000	1RB#74	21.89	21.29	33	PASS
Band38	15MHz	16QAM	38000	36RB#0	20.61	20.01	33	PASS
Band38	15MHz	16QAM	38000	36RB#18	20.54	19.94	33	PASS
Band38	15MHz	16QAM	38000	36RB#39	20.72	20.12	33	PASS
Band38	15MHz	16QAM	38000	75RB#0	20.60	20.00	33	PASS
Band38	15MHz	16QAM	38175	1RB#0	21.93	21.33	33	PASS
Band38	15MHz	16QAM	38175	1RB#38	22.05	21.45	33	PASS
Band38	15MHz	16QAM	38175	1RB#74	22.07	21.47	33	PASS
Band38	15MHz	16QAM	38175	36RB#0	20.57	19.97	33	PASS
Band38	15MHz	16QAM	38175	36RB#18	20.63	20.03	33	PASS
Band38	15MHz	16QAM	38175	36RB#39	20.77	20.17	33	PASS
Band38	15MHz	16QAM	38175	75RB#0	20.79	20.19	33	PASS
Band38	20MHz	QPSK	37850	1RB#0	23.23	22.63	33	PASS
Band38	20MHz	QPSK	37850	1RB#49	22.87	22.27	33	PASS
Band38	20MHz	QPSK	37850	1RB#99	22.90	22.30	33	PASS

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Band38	20MHz	QPSK	37850	50RB#0	22.00	21.40	33	PASS
Band38	20MHz	QPSK	37850	50RB#25	21.86	21.26	33	PASS
Band38	20MHz	QPSK	37850	50RB#50	21.98	21.38	33	PASS
Band38	20MHz	QPSK	37850	100RB#0	22.01	21.41	33	PASS
Band38	20MHz	QPSK	38000	1RB#0	22.96	22.36	33	PASS
Band38	20MHz	QPSK	38000	1RB#49	22.66	22.06	33	PASS
Band38	20MHz	QPSK	38000	1RB#99	23.24	22.64	33	PASS
Band38	20MHz	QPSK	38000	50RB#0	21.73	21.13	33	PASS
Band38	20MHz	QPSK	38000	50RB#25	21.66	21.06	33	PASS
Band38	20MHz	QPSK	38000	50RB#50	22.01	21.41	33	PASS
Band38	20MHz	QPSK	38000	100RB#0	22.02	21.42	33	PASS
Band38	20MHz	QPSK	38150	1RB#0	22.93	22.33	33	PASS
Band38	20MHz	QPSK	38150	1RB#49	22.64	22.04	33	PASS
Band38	20MHz	QPSK	38150	1RB#99	23.11	22.51	33	PASS
Band38	20MHz	QPSK	38150	50RB#0	21.82	21.22	33	PASS
Band38	20MHz	QPSK	38150	50RB#25	21.60	21.00	33	PASS
Band38	20MHz	QPSK	38150	50RB#50	21.92	21.32	33	PASS
Band38	20MHz	QPSK	38150	100RB#0	21.96	21.36	33	PASS
Band38	20MHz	64QAM	37850	1RB#0	21.03	20.43	33	PASS
Band38	20MHz	64QAM	37850	1RB#49	20.82	20.22	33	PASS
Band38	20MHz	64QAM	37850	1RB#99	20.75	20.15	33	PASS
Band38	20MHz	64QAM	37850	50RB#0	19.77	19.17	33	PASS
Band38	20MHz	64QAM	37850	50RB#25	19.74	19.14	33	PASS
Band38	20MHz	64QAM	37850	50RB#50	19.82	19.22	33	PASS
Band38	20MHz	64QAM	37850	100RB#0	19.73	19.13	33	PASS
Band38	20MHz	64QAM	38000	1RB#0	20.77	20.17	33	PASS
Band38	20MHz	64QAM	38000	1RB#49	20.56	19.96	33	PASS
Band38	20MHz	64QAM	38000	1RB#99	20.55	19.95	33	PASS
Band38	20MHz	64QAM	38000	50RB#0	19.64	19.04	33	PASS
Band38	20MHz	64QAM	38000	50RB#25	19.70	19.10	33	PASS
Band38	20MHz	64QAM	38000	50RB#50	19.60	19.00	33	PASS
Band38	20MHz	64QAM	38000	100RB#0	19.77	19.17	33	PASS
Band38	20MHz	64QAM	38150	1RB#0	20.74	20.14	33	PASS

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Band38	20MHz	64QAM	38150	1RB#49	20.54	19.94	33	PASS
Band38	20MHz	64QAM	38150	1RB#99	20.97	20.37	33	PASS
Band38	20MHz	64QAM	38150	50RB#0	19.67	19.07	33	PASS
Band38	20MHz	64QAM	38150	50RB#25	19.73	19.13	33	PASS
Band38	20MHz	64QAM	38150	50RB#50	19.48	18.88	33	PASS
Band38	20MHz	64QAM	38150	100RB#0	19.77	19.17	33	PASS
Band38	20MHz	16QAM	37850	1RB#0	22.15	21.55	33	PASS
Band38	20MHz	16QAM	37850	1RB#49	21.98	21.38	33	PASS
Band38	20MHz	16QAM	37850	1RB#99	21.85	21.25	33	PASS
Band38	20MHz	16QAM	37850	50RB#0	20.97	20.37	33	PASS
Band38	20MHz	16QAM	37850	50RB#25	20.86	20.26	33	PASS
Band38	20MHz	16QAM	37850	50RB#50	21.01	20.41	33	PASS
Band38	20MHz	16QAM	37850	100RB#0	20.89	20.29	33	PASS
Band38	20MHz	16QAM	38000	1RB#0	21.88	21.28	33	PASS
Band38	20MHz	16QAM	38000	1RB#49	21.71	21.11	33	PASS
Band38	20MHz	16QAM	38000	1RB#99	21.70	21.10	33	PASS
Band38	20MHz	16QAM	38000	50RB#0	20.77	20.17	33	PASS
Band38	20MHz	16QAM	38000	50RB#25	20.81	20.21	33	PASS
Band38	20MHz	16QAM	38000	50RB#50	20.75	20.15	33	PASS
Band38	20MHz	16QAM	38000	100RB#0	20.95	20.35	33	PASS
Band38	20MHz	16QAM	38150	1RB#0	21.86	21.26	33	PASS
Band38	20MHz	16QAM	38150	1RB#49	21.72	21.12	33	PASS
Band38	20MHz	16QAM	38150	1RB#99	22.07	21.47	33	PASS
Band38	20MHz	16QAM	38150	50RB#0	20.77	20.17	33	PASS
Band38	20MHz	16QAM	38150	50RB#25	20.85	20.25	33	PASS
Band38	20MHz	16QAM	38150	50RB#50	20.65	20.05	33	PASS
Band38	20MHz	16QAM	38150	100RB#0	20.92	20.32	33	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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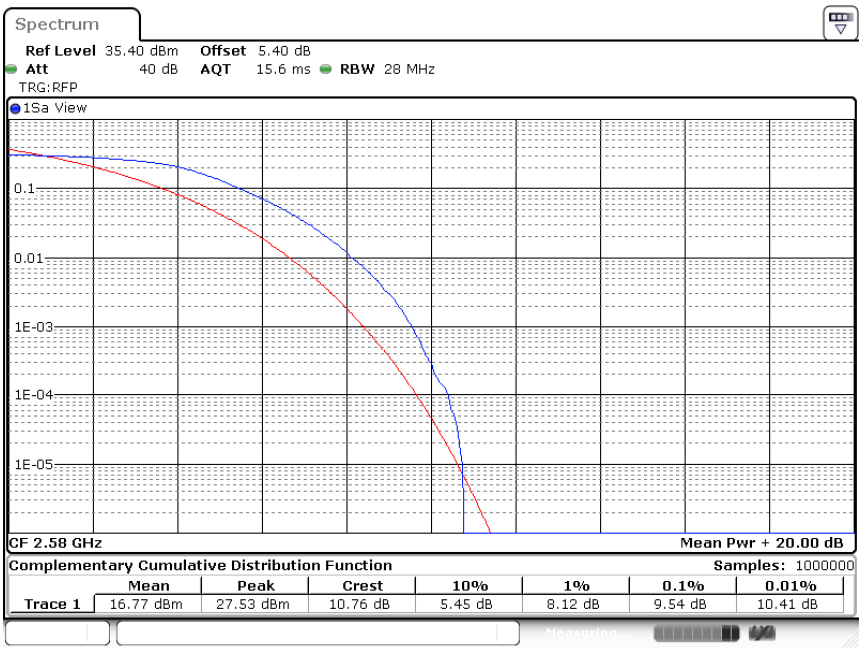
2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	9.54	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	8.90	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	8.96	13	PASS
Band38	20MHz	64QAM	37850	100RB#0	11.04	13	PASS
Band38	20MHz	64QAM	38000	100RB#0	9.91	13	PASS
Band38	20MHz	64QAM	38150	100RB#0	9.91	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	9.59	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	9.74	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	9.80	13	PASS

2.2. Test Plots

Band38-20MHz-QPSK-37850-100RB#0



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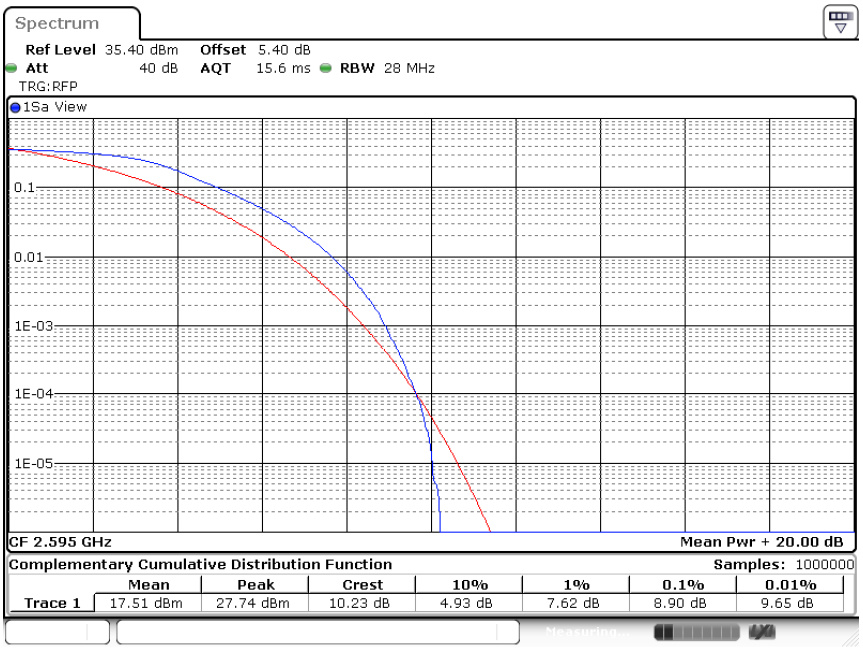
Band38-20MHz-QPSK-38000-100RB#0



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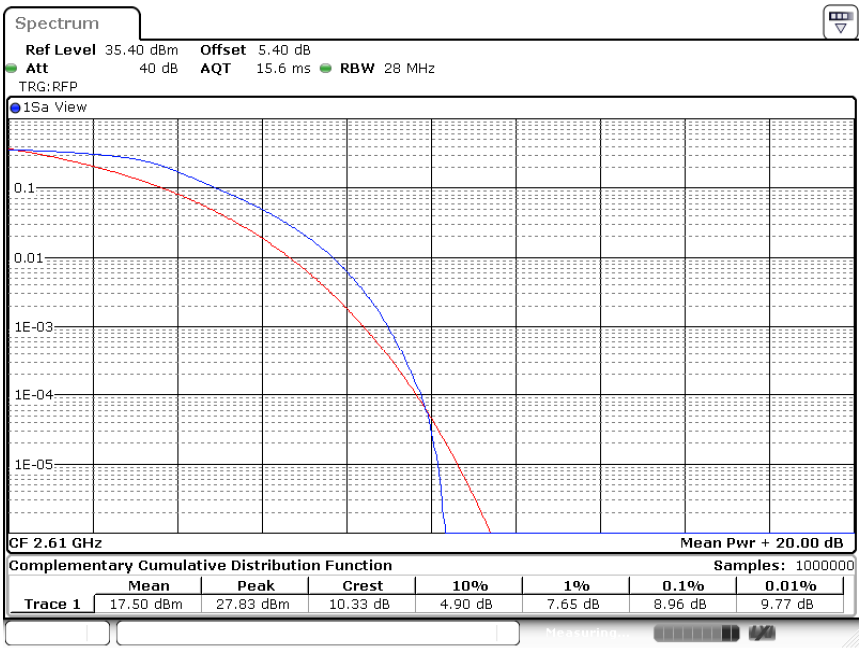
Band38-20MHz-QPSK-38150-100RB#0



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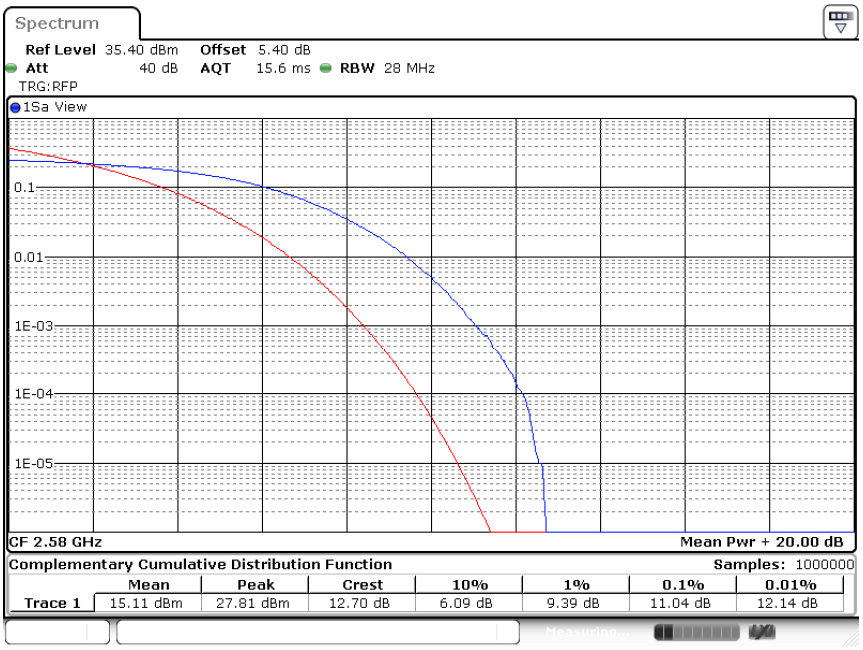
Band38-20MHz-64QAM-37850-100RB#0



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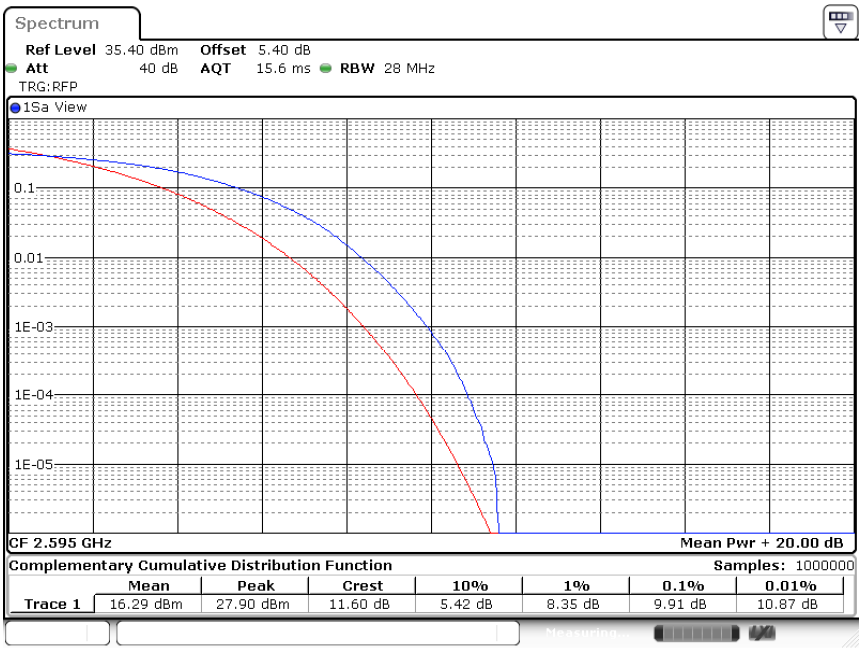
Band38-20MHz-64QAM-38000-100RB#0



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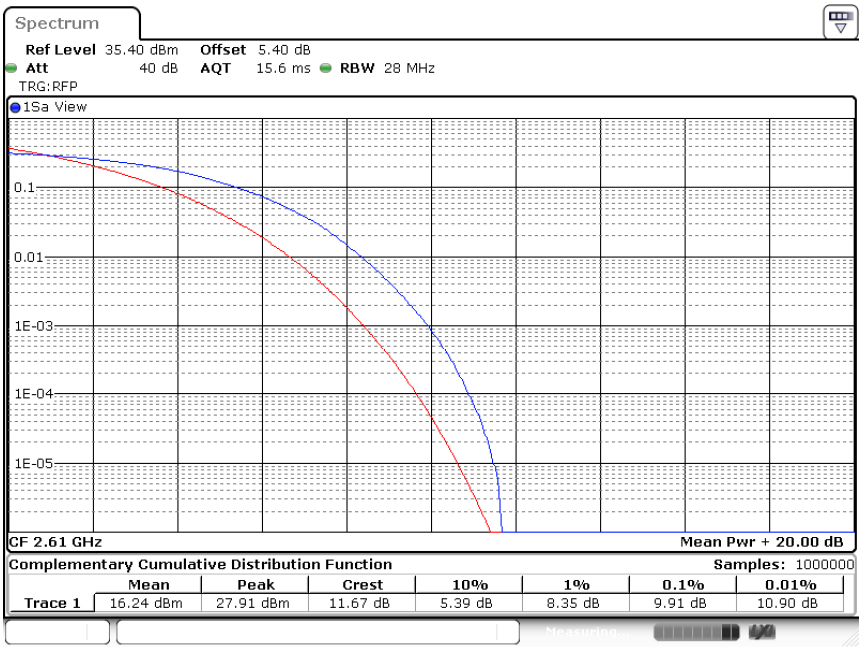
Band38-20MHz-64QAM-38150-100RB#0



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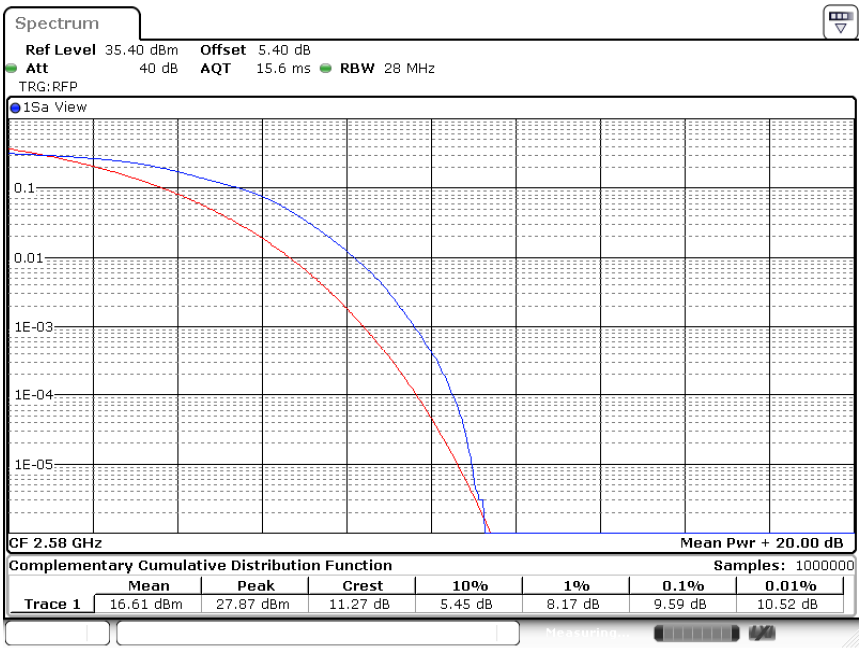
Band38-20MHz-16QAM-37850-100RB#0



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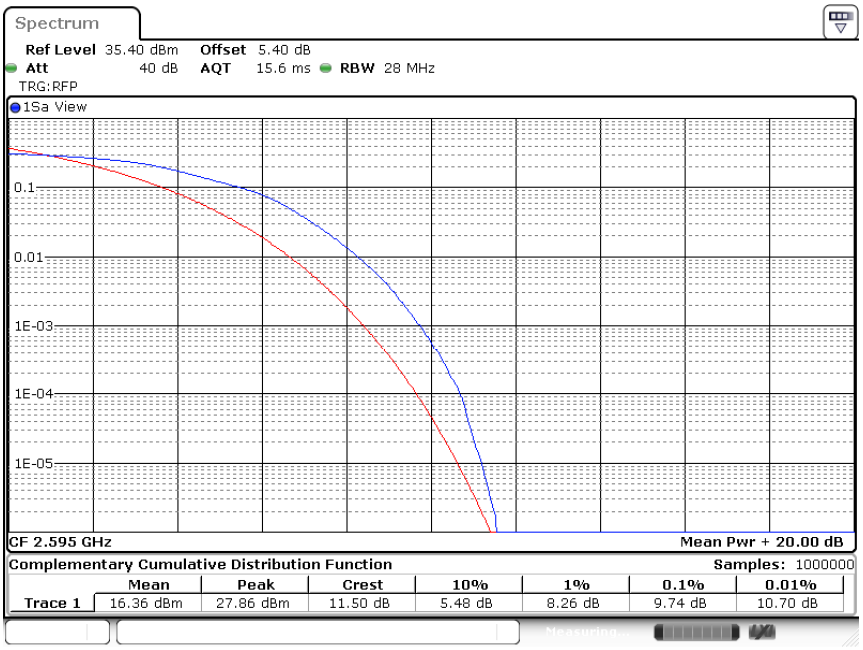
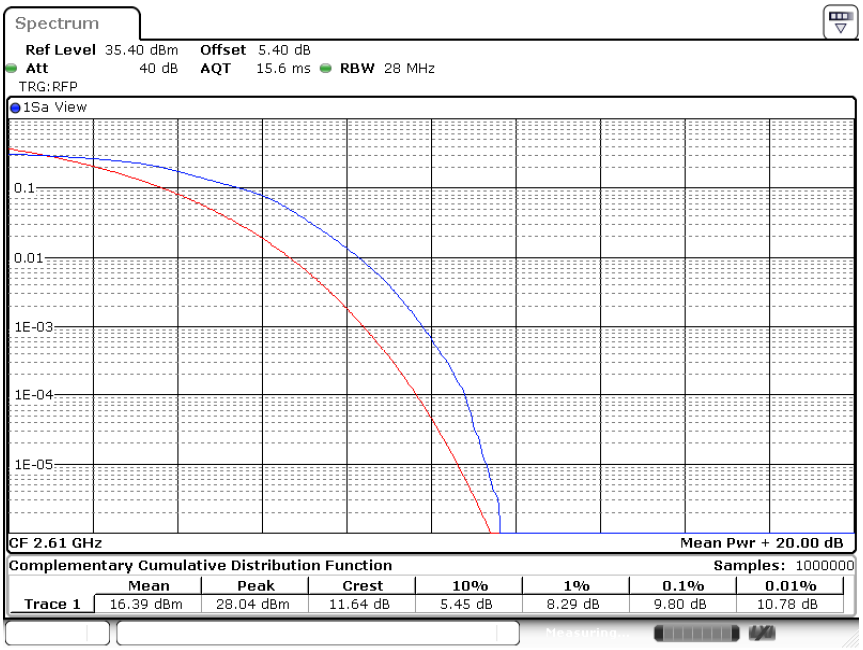
Band38-20MHz-16QAM-38000-100RB#0



Date: 8.SEP.2020 20:22:45

Band38-20MHz-16QAM-38150-100RB#0



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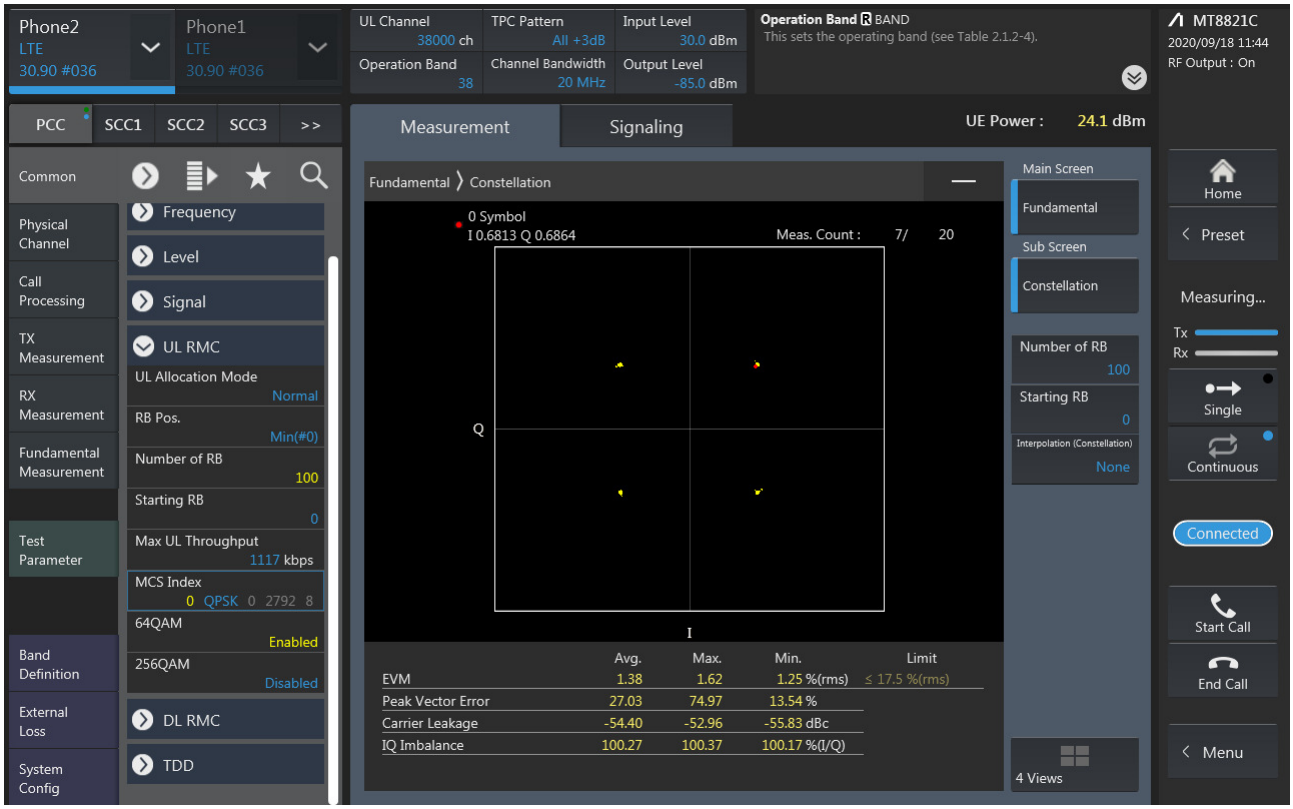
3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

3.1.1.Test Channel = MCH



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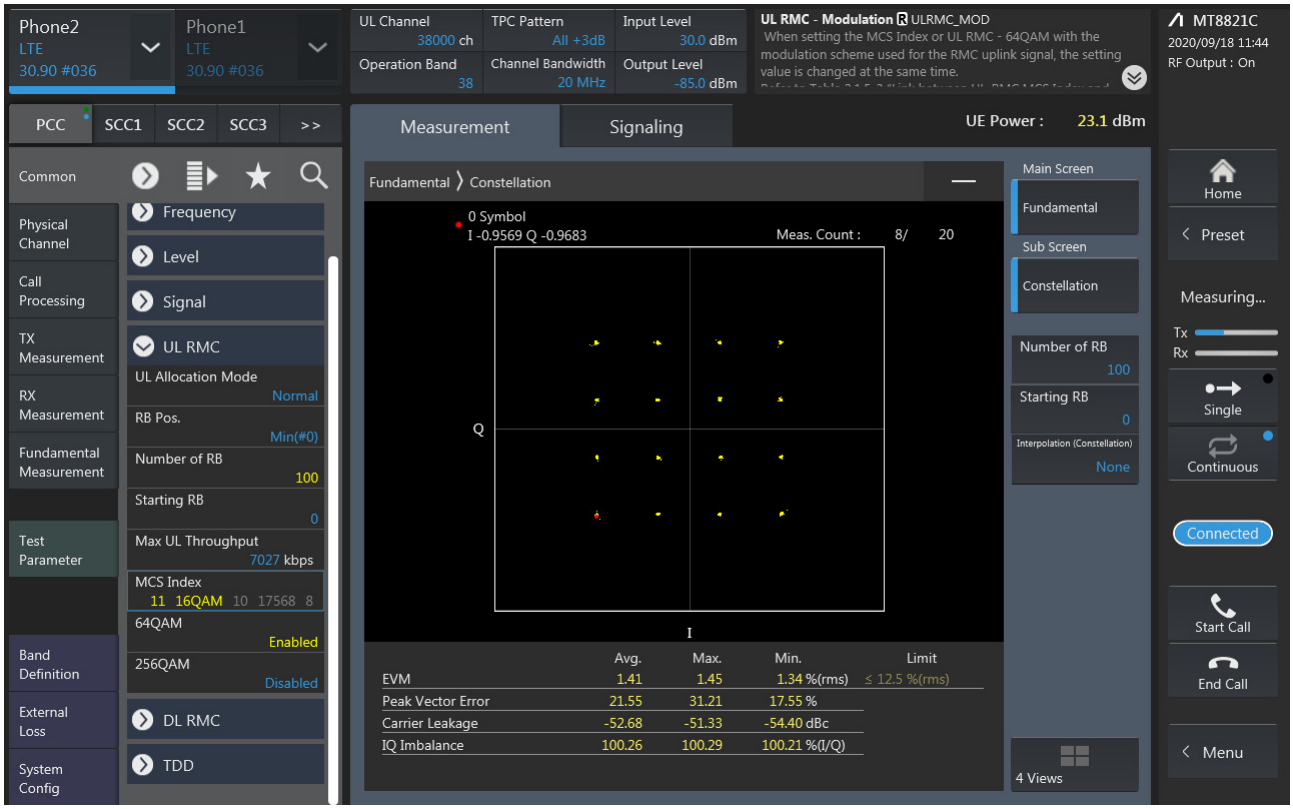
3.2. Test Mode = LTE /TM2 20MHz

3.2.1.Test Channel = MCH



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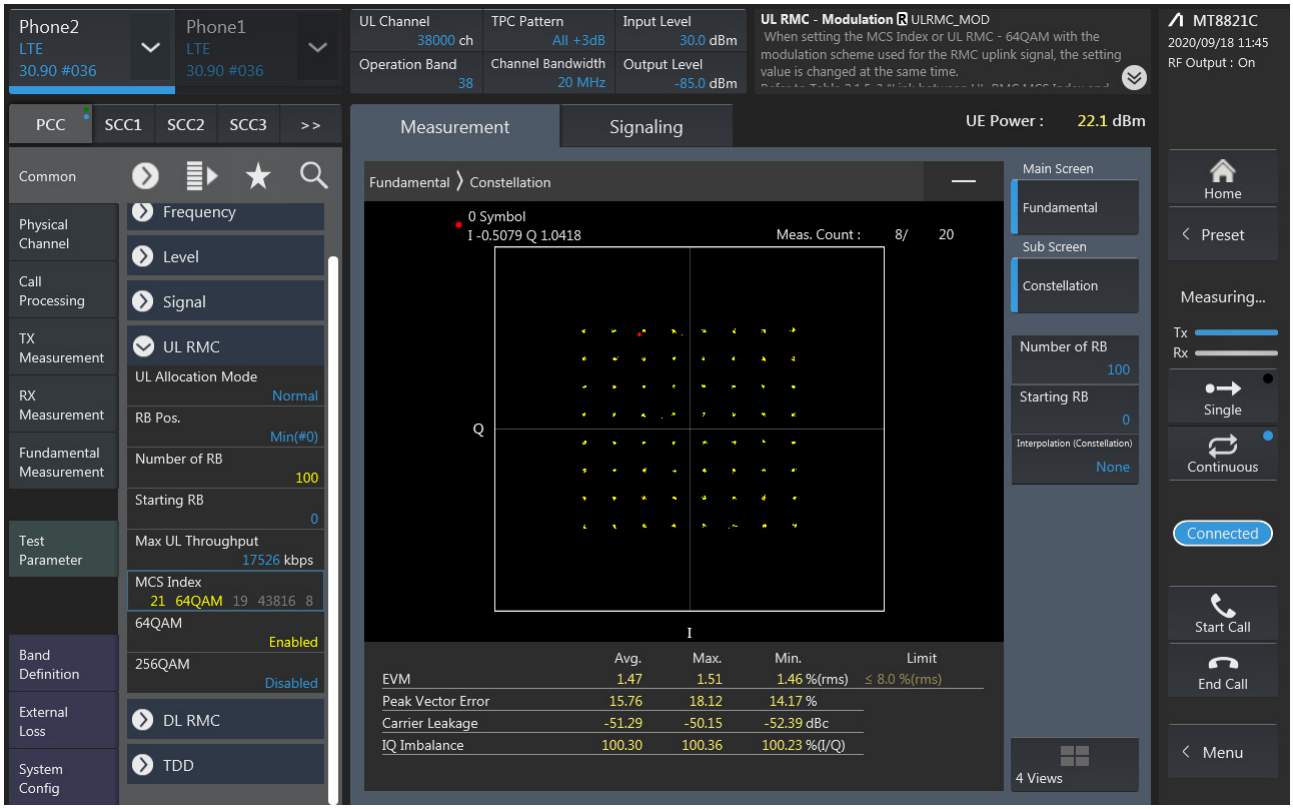
3.3. Test Mode = LTE /TM3 20MHz

3.3.1.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
Band38	5MHz	QPSK	37775	25RB#0	4.476	4.980	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.476	4.950	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.476	4.940	PASS
Band38	5MHz	64QAM	37775	25RB#0	4.476	4.910	PASS
Band38	5MHz	64QAM	38000	25RB#0	4.466	4.900	PASS
Band38	5MHz	64QAM	38225	25RB#0	4.466	4.900	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.486	4.940	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.496	4.940	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.496	4.950	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.911	9.780	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.911	9.780	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.911	9.780	PASS
Band38	10MHz	64QAM	37800	50RB#0	8.911	9.780	PASS
Band38	10MHz	64QAM	38000	50RB#0	8.911	9.840	PASS
Band38	10MHz	64QAM	38200	50RB#0	8.911	9.780	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.911	9.620	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.911	9.640	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.911	9.660	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.516	16.380	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.516	16.500	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.516	16.650	PASS
Band38	15MHz	64QAM	37825	75RB#0	13.457	14.880	PASS
Band38	15MHz	64QAM	38000	75RB#0	13.457	14.850	PASS
Band38	15MHz	64QAM	38175	75RB#0	13.487	14.880	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.457	15.210	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.457	15.240	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.487	15.270	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.942	19.520	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.942	19.520	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.942	19.720	PASS
Band38	20MHz	64QAM	37850	100RB#0	17.862	19.640	PASS

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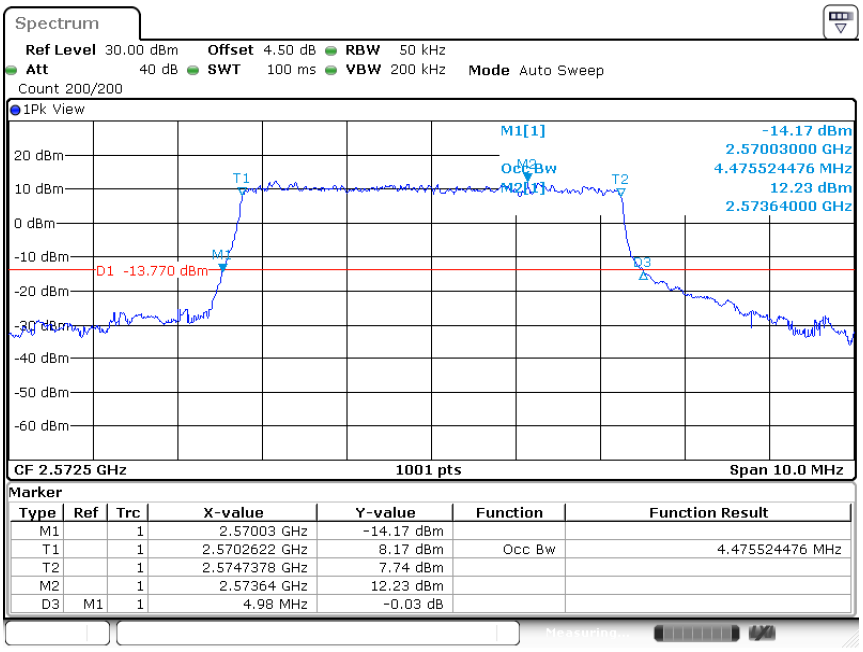
Band38	20MHz	64QAM	38000	100RB#0	17.862	19.680	PASS
Band38	20MHz	64QAM	38150	100RB#0	17.902	19.720	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.902	20.040	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.902	20.120	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.942	20.240	PASS

4.2. Test Plots

Band38-5MHz-QPSK-37775-25RB#0-4.476



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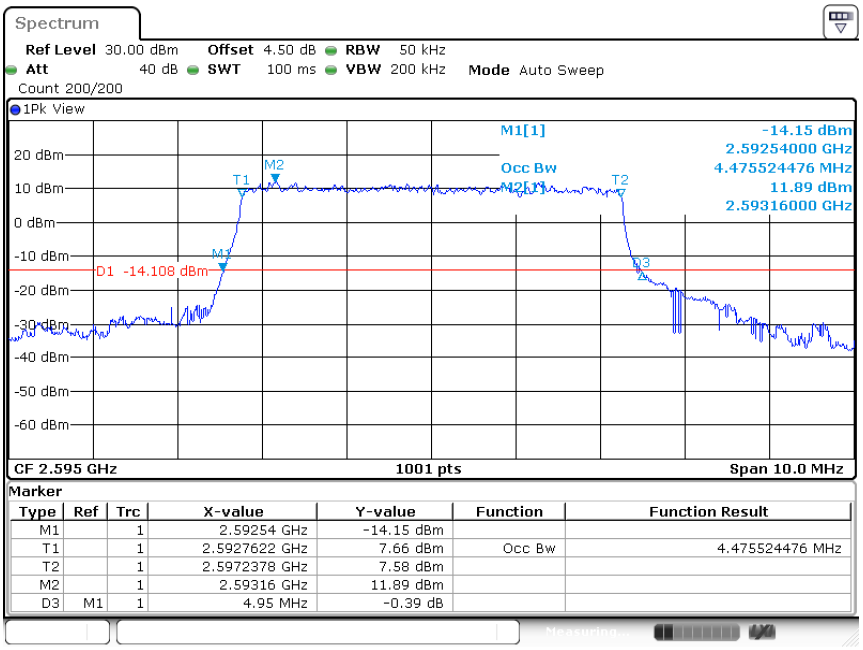
Band38-5MHz-QPSK-38000-25RB#0-4.476



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.59254 GHz	-14.15 dBm		
T1		1	2.5927622 GHz	7.66 dBm	Occ Bw	4.475524476 MHz
T2		1	2.5972378 GHz	7.58 dBm		
M2		1	2.59316 GHz	11.89 dBm		
D3	M1	1	4.95 MHz	-0.39 dB		

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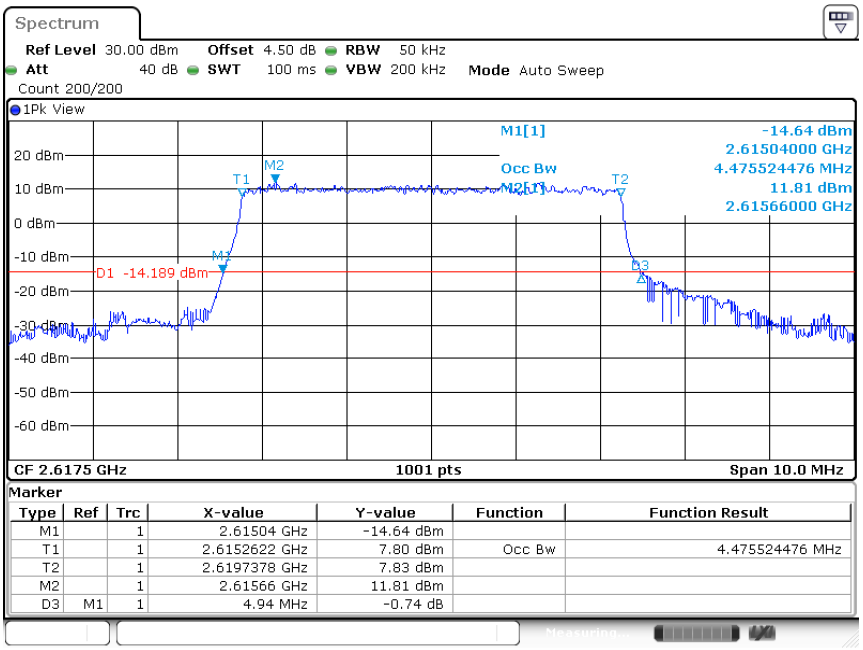
Band38-5MHz-QPSK-38225-25RB#0-4.476



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.61504 GHz	-14.64 dBm		
T1		1	2.6152622 GHz	7.80 dBm	Occ Bw	4.475524476 MHz
T2		1	2.6197378 GHz	7.83 dBm		
M2		1	2.61566 GHz	11.81 dBm		
D3	M1	1	4.94 MHz	-0.74 dB		

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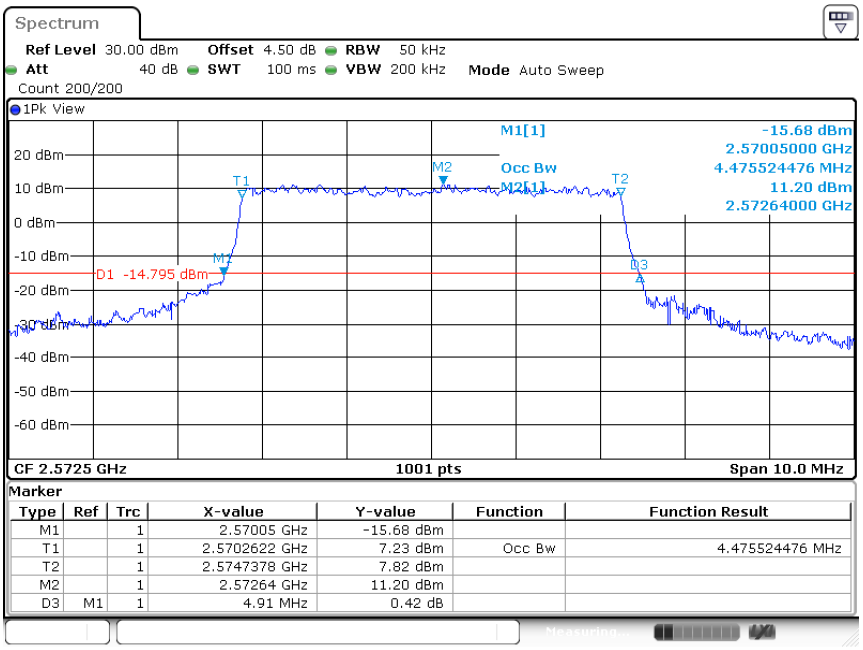

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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.57005 GHz	-15.68 dBm		
T1		1	2.5702622 GHz	7.23 dBm	Occ Bw	4.475524476 MHz
T2		1	2.5747378 GHz	7.82 dBm		
M2		1	2.57264 GHz	11.20 dBm		
D3	M1	1	4.91 MHz	0.42 dB		

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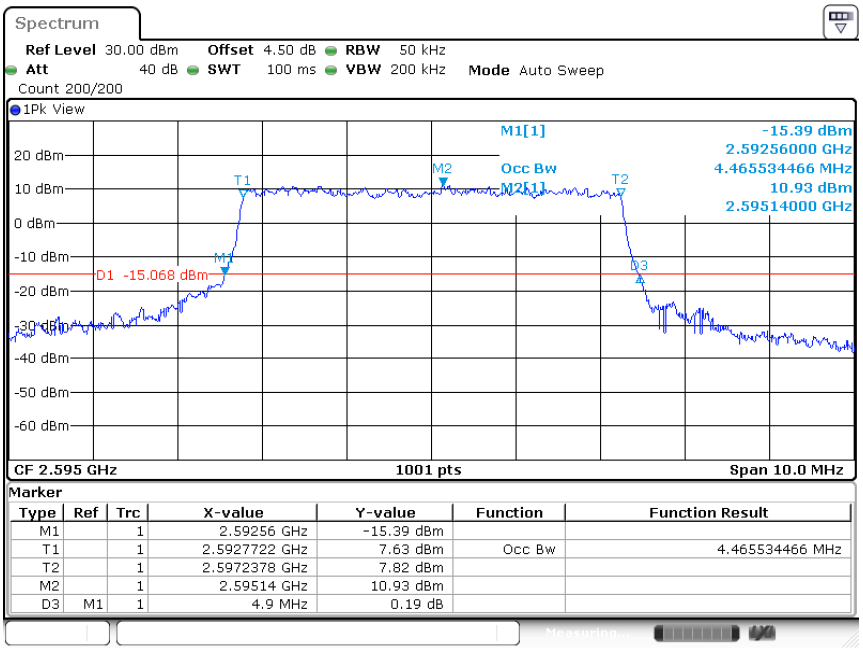
Band38-5MHz-64QAM-38000-25RB#0-4.466



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.59256 GHz	-15.39 dBm		
T1		1	2.5927722 GHz	7.63 dBm	Occ Bw	4.465534466 MHz
T2		1	2.5972378 GHz	7.82 dBm		
M2		1	2.59514 GHz	10.93 dBm		
D3	M1	1	4.9 MHz	0.19 dB		

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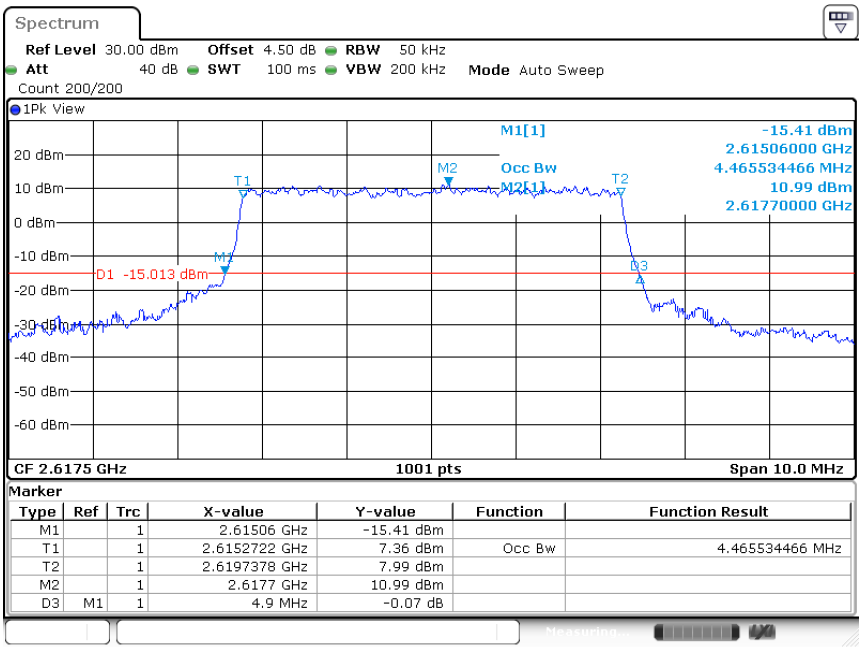

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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.61506 GHz	-15.41 dBm		
T1		1	2.6152722 GHz	7.36 dBm	Occ Bw	4.465534466 MHz
T2		1	2.6197378 GHz	7.99 dBm		
M2		1	2.6177 GHz	10.99 dBm		
D3	M1	1	4.9 MHz	-0.07 dB		

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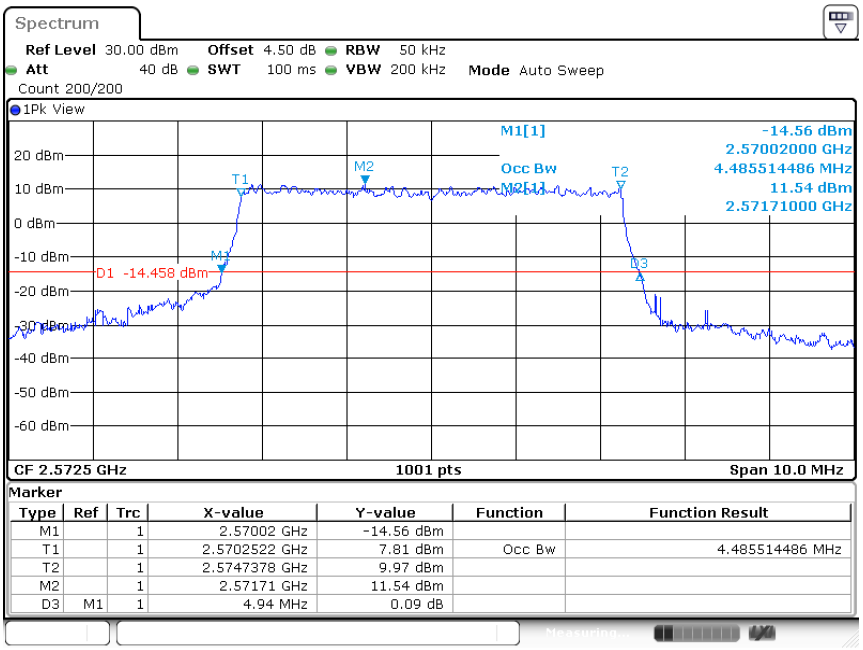
Band38-5MHz-16QAM-37775-25RB#0-4.486



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.57002 GHz	-14.56 dBm		
T1		1	2.5702522 GHz	7.81 dBm	Occ Bw	4.485514486 MHz
T2		1	2.5747378 GHz	9.97 dBm		
M2		1	2.57171 GHz	11.54 dBm		
D3	M1	1	4.94 MHz	0.09 dB		

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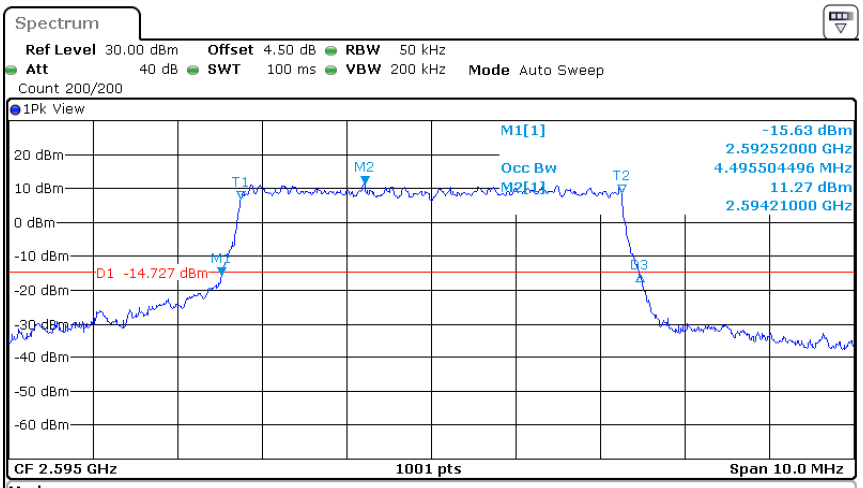
Band38-5MHz-16QAM-38000-25RB#0-4.496

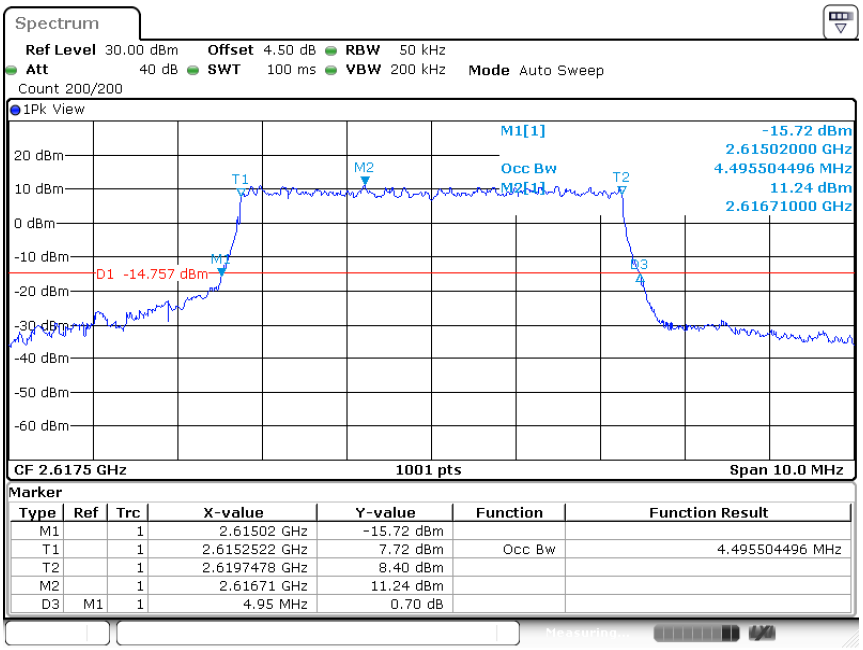


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.59252 GHz	-15.63 dBm		
T1		1	2.5927522 GHz	6.84 dBm	Occ Bw	4.495504496 MHz
T2		1	2.5972478 GHz	8.66 dBm		
M2		1	2.59421 GHz	11.27 dBm		
D3	M1	1	4.94 MHz	0.33 dB		

Date: 4.SEP.2020 08:51:30

Band38-5MHz-16QAM-38225-25RB#0-4.496



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.61502 GHz	-15.72 dBm		
T1		1	2.6152522 GHz	7.72 dBm	Occ Bw	4.495504496 MHz
T2		1	2.6197478 GHz	8.40 dBm		
M2		1	2.61671 GHz	11.24 dBm		
D3	M1	1	4.95 MHz	0.70 dB		

Date: 4.SEP.2020 08:52:35

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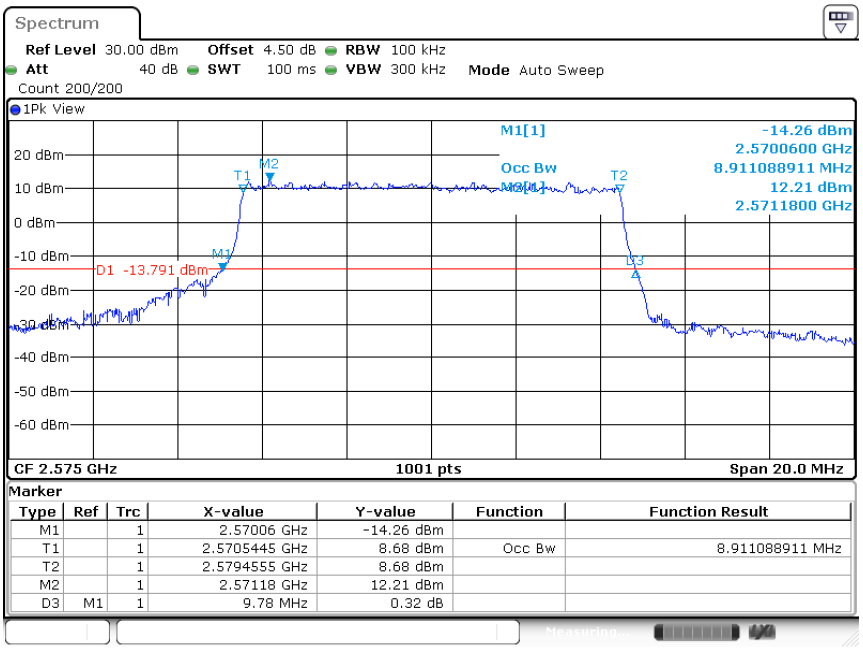
Band38-10MHz-QPSK-37800-50RB#0-8.911



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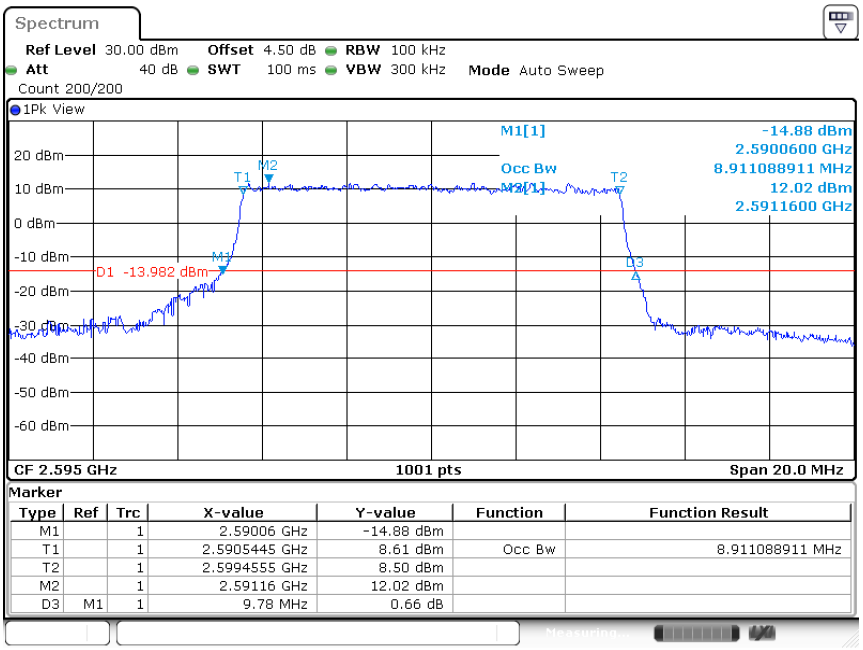
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.57006 GHz	-14.26 dBm		
T1		1	2.5705445 GHz	8.68 dBm	Occ Bw	8.911088911 MHz
T2		1	2.5794555 GHz	8.68 dBm		
M2		1	2.57118 GHz	12.21 dBm		
D3	M1	1	9.78 MHz	0.32 dB		

Date: 4.SEP.2020 08:53:13

Band38-10MHz-QPSK-38000-50RB#0-8.911



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.59006 GHz	-14.88 dBm		
T1		1	2.5905445 GHz	8.61 dBm	Occ Bw	8.911088911 MHz
T2		1	2.5994555 GHz	8.50 dBm		
M2		1	2.59116 GHz	12.02 dBm		
D3	M1	1	9.78 MHz	0.66 dB		

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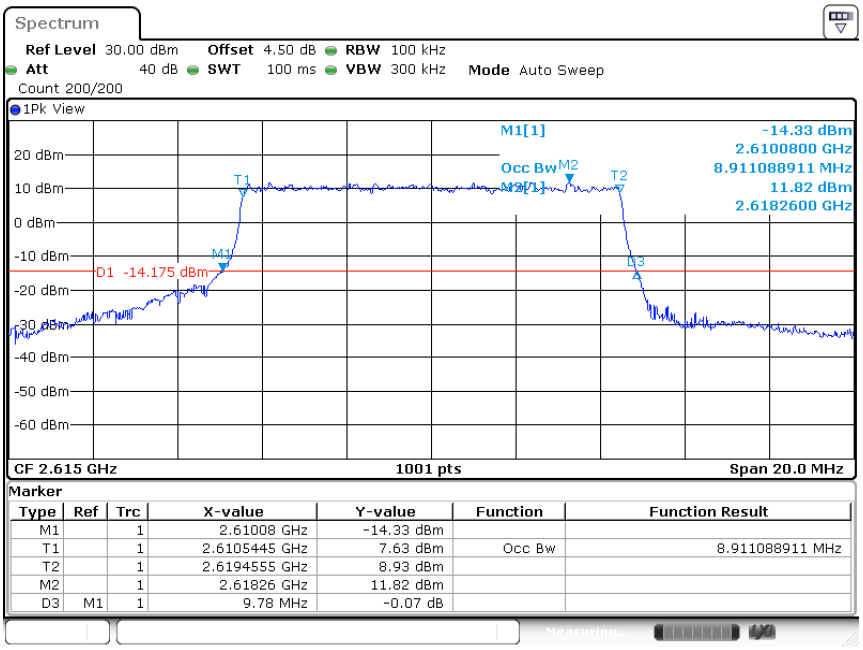
Band38-10MHz-QPSK-38200-50RB#0-8.911

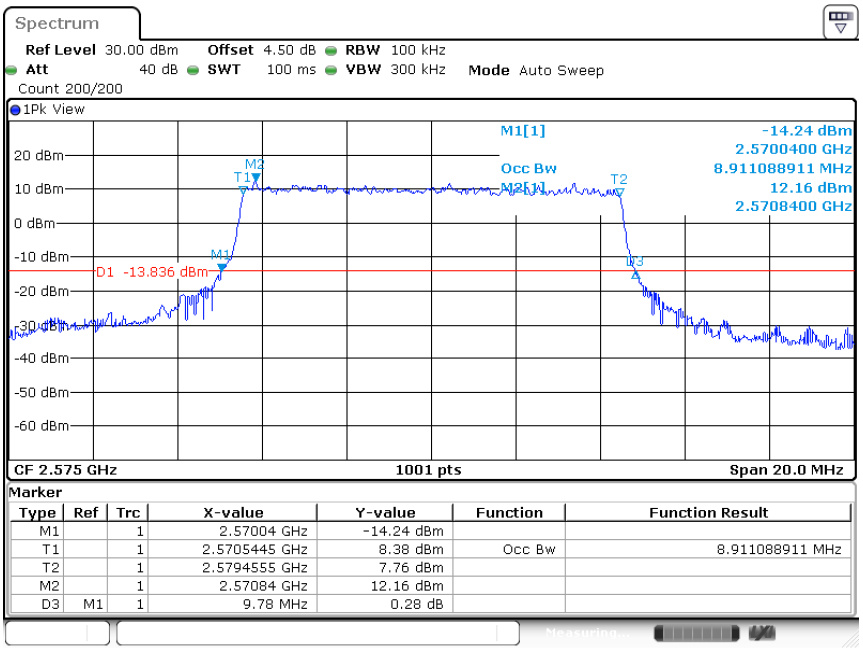


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.61008 GHz	-14.33 dBm		
T1		1	2.6105445 GHz	7.63 dBm	Occ Bw	8.911088911 MHz
T2		1	2.6194555 GHz	8.93 dBm		
M2		1	2.61826 GHz	11.82 dBm		
D3	M1	1	9.78 MHz	-0.07 dB		

Date: 4.SEP.2020 08:55:24

Band38-10MHz-64QAM-37800-50RB#0-8.911



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.57004 GHz	-14.24 dBm		
T1		1	2.5705445 GHz	8.38 dBm	Occ Bw	8.911088911 MHz
T2		1	2.5794555 GHz	7.76 dBm		
M2		1	2.57084 GHz	12.16 dBm		
D3	M1	1	9.78 MHz	0.28 dB		

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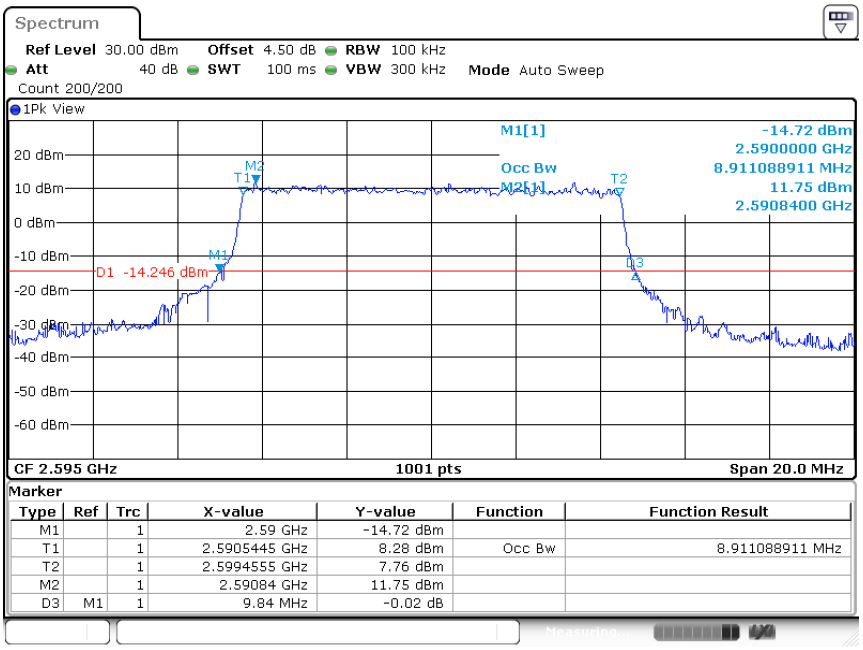

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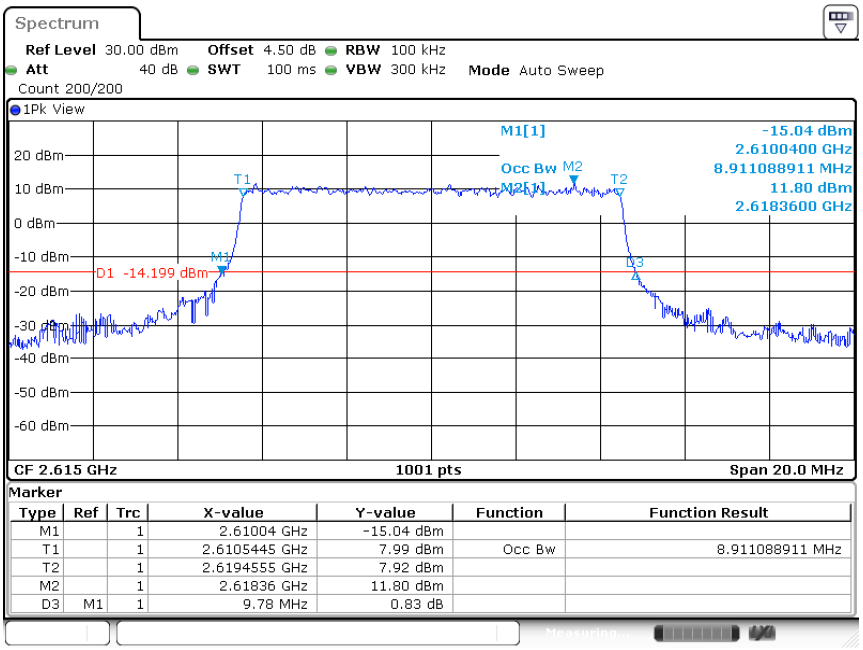
Band38-10MHz-64QAM-38200-50RB#0-8.911



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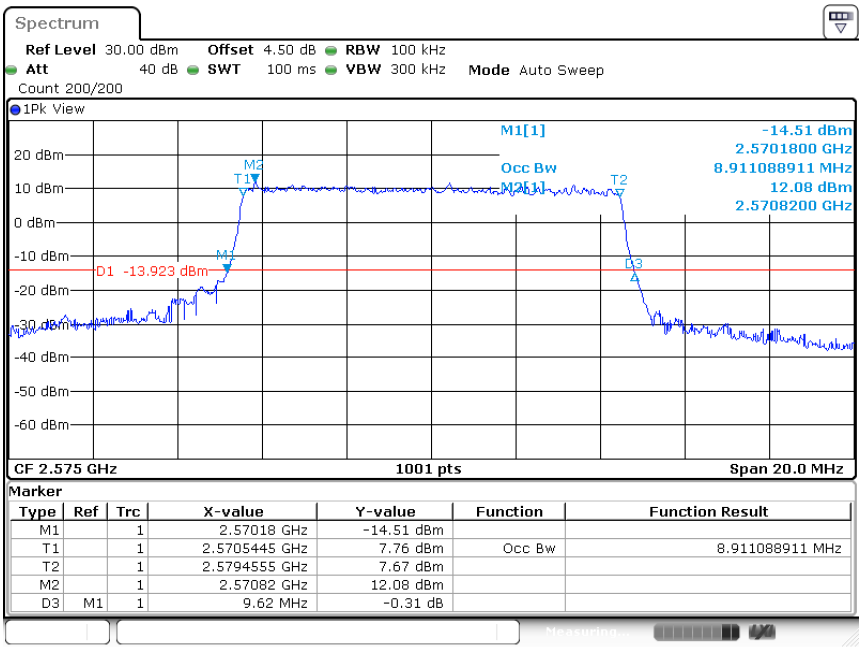

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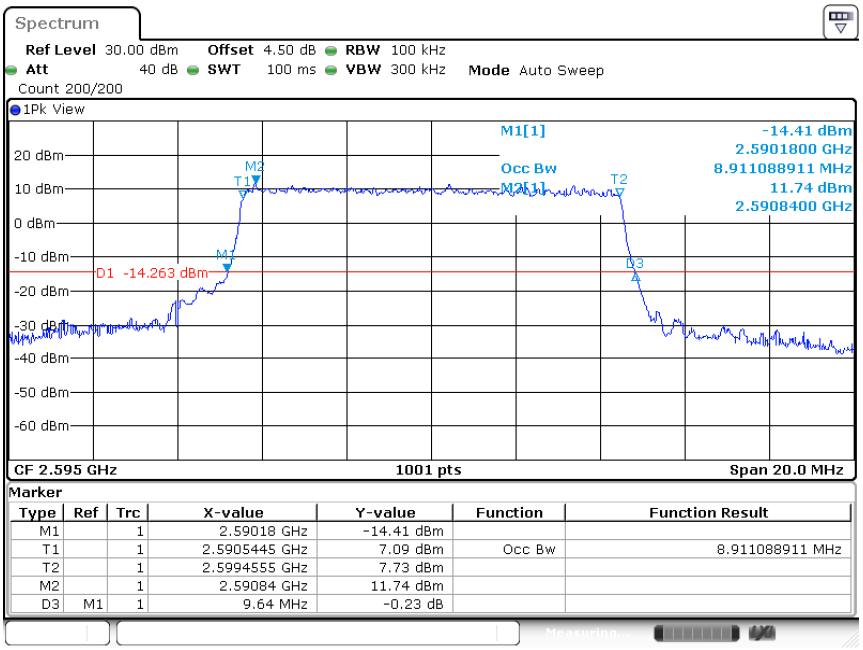

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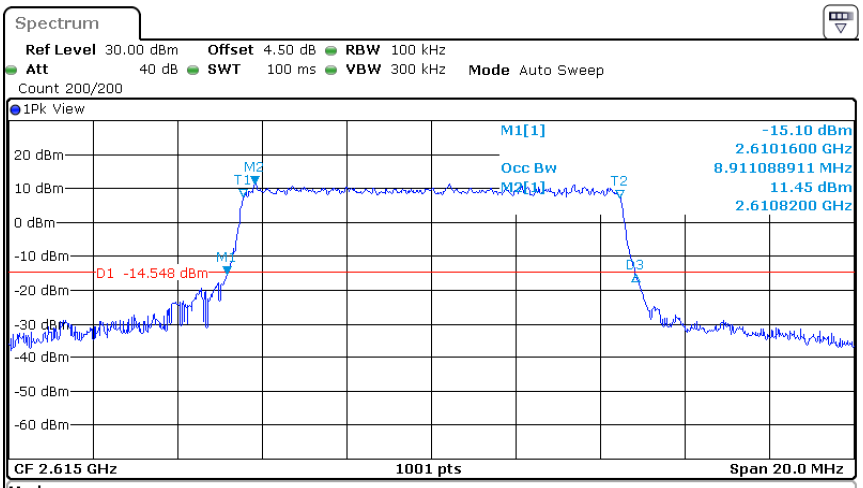

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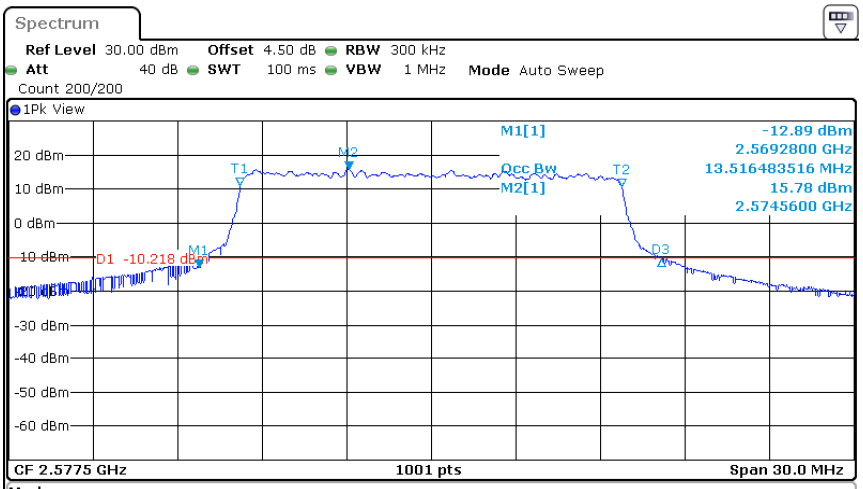
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.61016 GHz	-15.10 dBm		
T1		1	2.6105445 GHz	7.47 dBm	Occ Bw	8.911088911 MHz
T2		1	2.6194555 GHz	7.19 dBm		
M2		1	2.61082 GHz	11.45 dBm		
D3	M1	1	9.66 MHz	-0.07 dB		

Date: 4.SEP.2020 08:55:56

Band38-15MHz-QPSK-37825-75RB#0-13.516



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.56928 GHz	-12.89 dBm		
T1		1	2.5707268 GHz	11.00 dBm	Occ Bw	13.516483516 MHz
T2		1	2.5842433 GHz	10.64 dBm		
M2		1	2.57456 GHz	15.78 dBm		
D3	M1	1	16.38 MHz	2.32 dB		

Date: 4.SEP.2020 10:36:11

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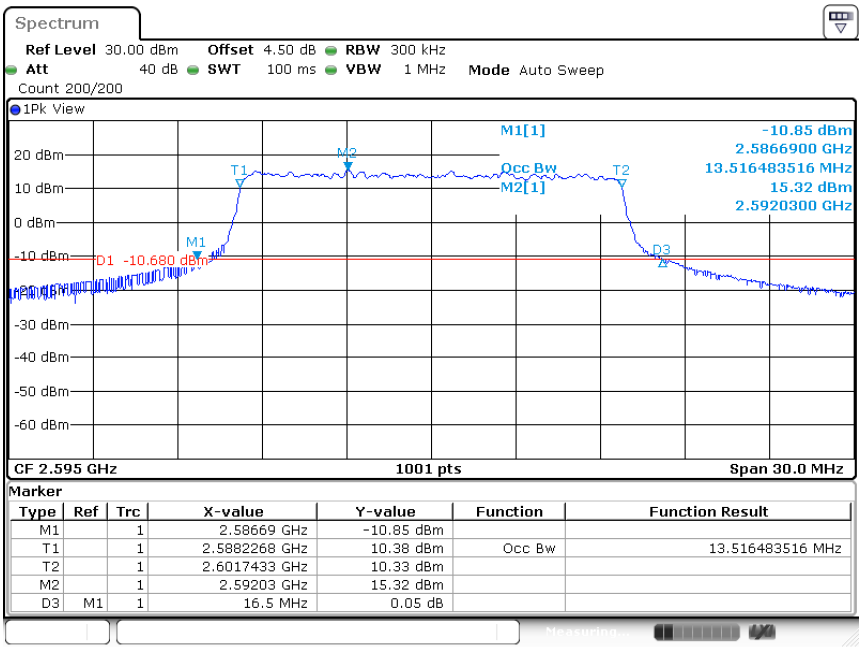

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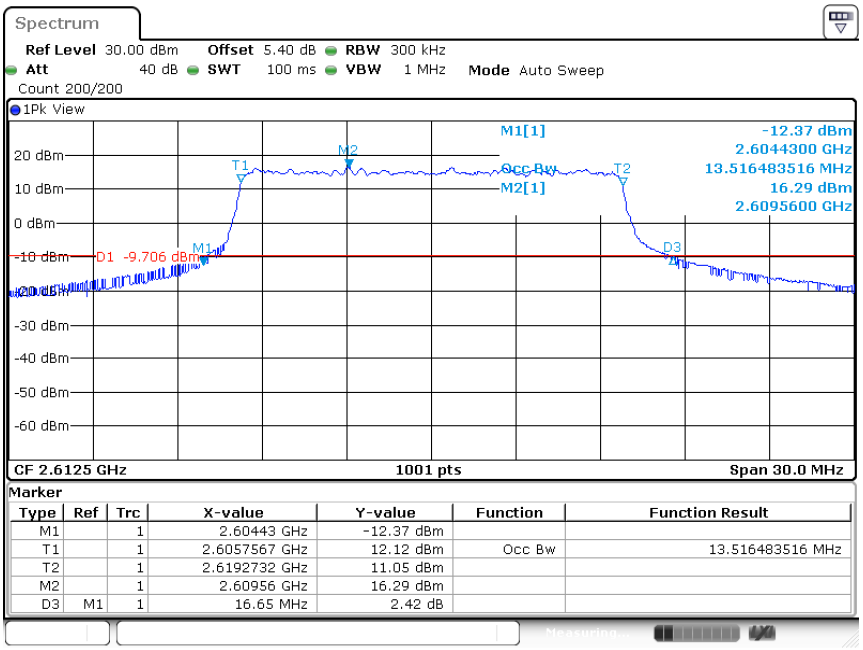
Band38-15MHz-QPSK-38175-75RB#0-13.516



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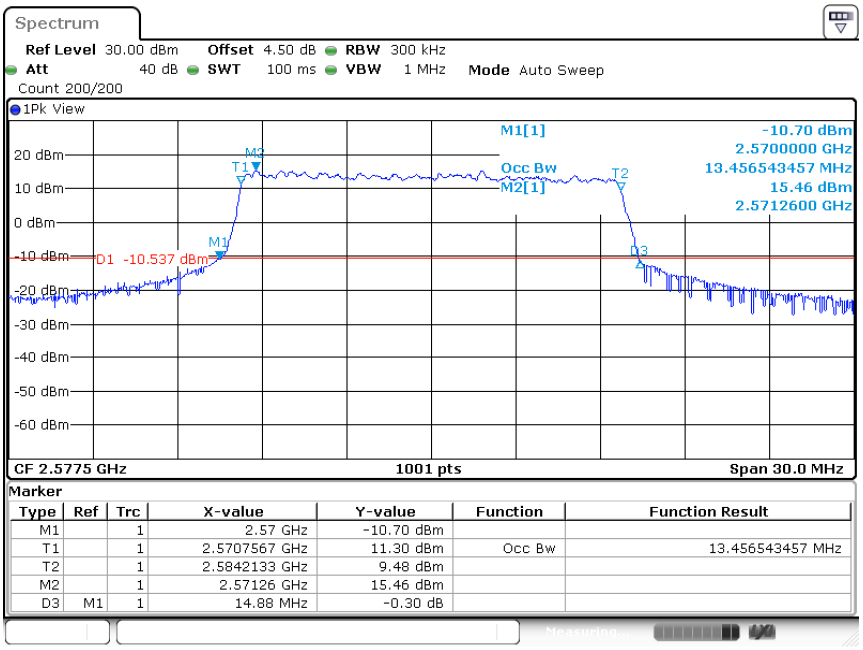
Band38-15MHz-64QAM-37825-75RB#0-13.457



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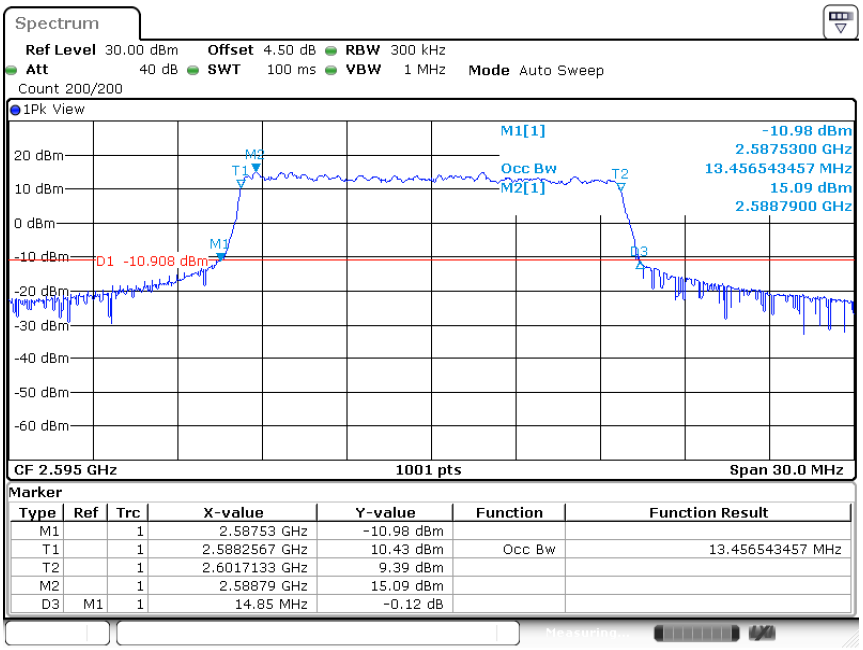
Band38-15MHz-64QAM-38000-75RB#0-13.457



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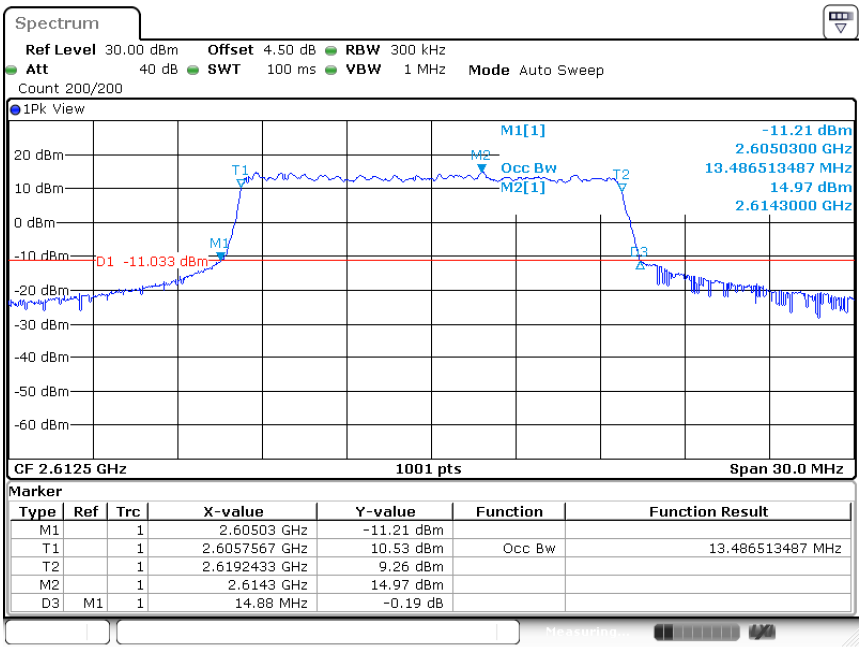
Band38-15MHz-64QAM-38175-75RB#0-13.487



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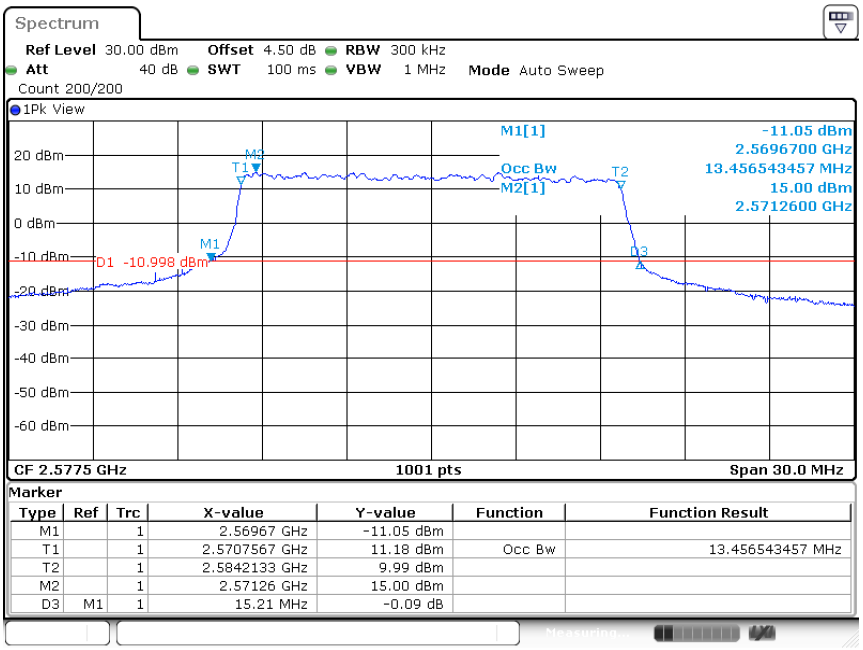
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.60503 GHz	-11.21 dBm		
T1		1	2.6057567 GHz	10.53 dBm	Occ Bw	13.486513487 MHz
T2		1	2.6192433 GHz	9.26 dBm		
M2		1	2.6143 GHz	14.97 dBm		
D3	M1	1	14.88 MHz	-0.19 dB		

Date: 4.SEP.2020 09:57:23

Band38-15MHz-16QAM-37825-75RB#0-13.457



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.56967 GHz	-11.05 dBm		
T1		1	2.5707567 GHz	11.18 dBm	Occ Bw	13.456543457 MHz
T2		1	2.5842133 GHz	9.99 dBm		
M2		1	2.57126 GHz	15.00 dBm		
D3	M1	1	15.21 MHz	-0.09 dB		

Date: 4.SEP.2020 10:38:00

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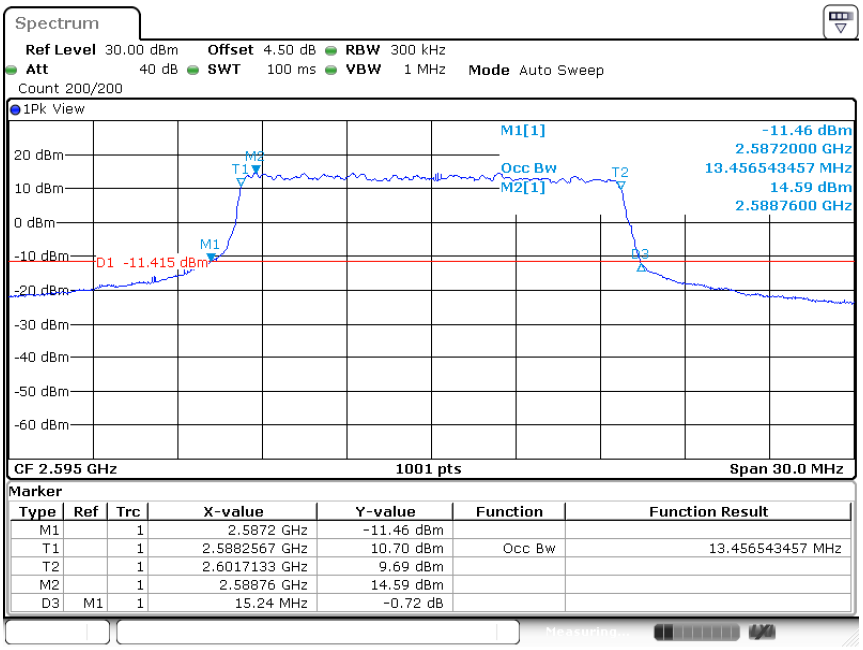
Band38-15MHz-16QAM-38000-75RB#0-13.457



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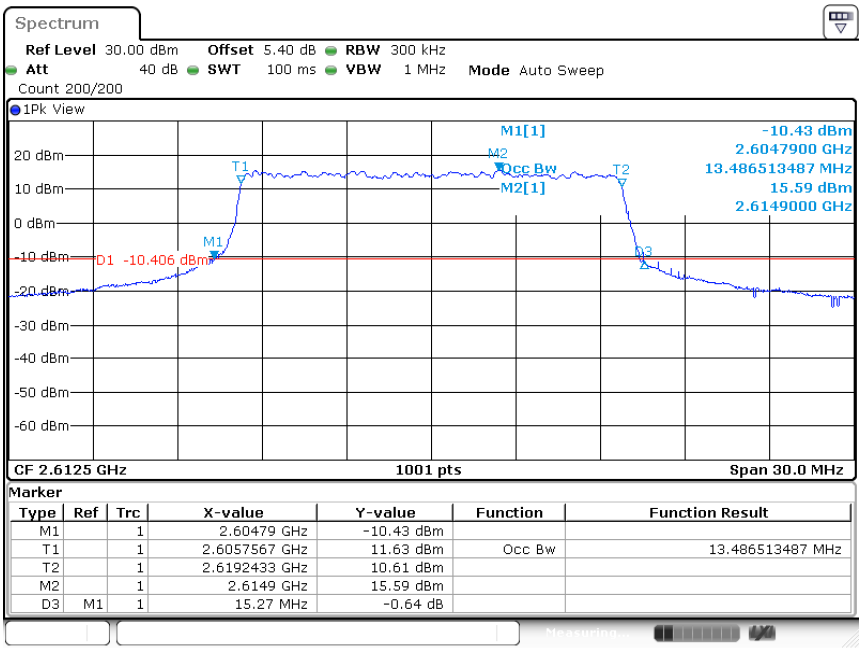
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.5872 GHz	-11.46 dBm		
T1		1	2.5882567 GHz	10.70 dBm	Occ Bw	13.456543457 MHz
T2		1	2.6017133 GHz	9.69 dBm		
M2		1	2.58876 GHz	14.59 dBm		
D3	M1	1	15.24 MHz	-0.72 dB		

Date: 4.SEP.2020 10:42:38

Band38-15MHz-16QAM-38175-75RB#0-13.487



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.60479 GHz	-10.43 dBm		
T1		1	2.6057567 GHz	11.63 dBm	Occ Bw	13.486513487 MHz
T2		1	2.6192433 GHz	10.61 dBm		
M2		1	2.6149 GHz	15.59 dBm		
D3	M1	1	15.27 MHz	-0.64 dB		

Date: 7.SEP.2020 20:30:03

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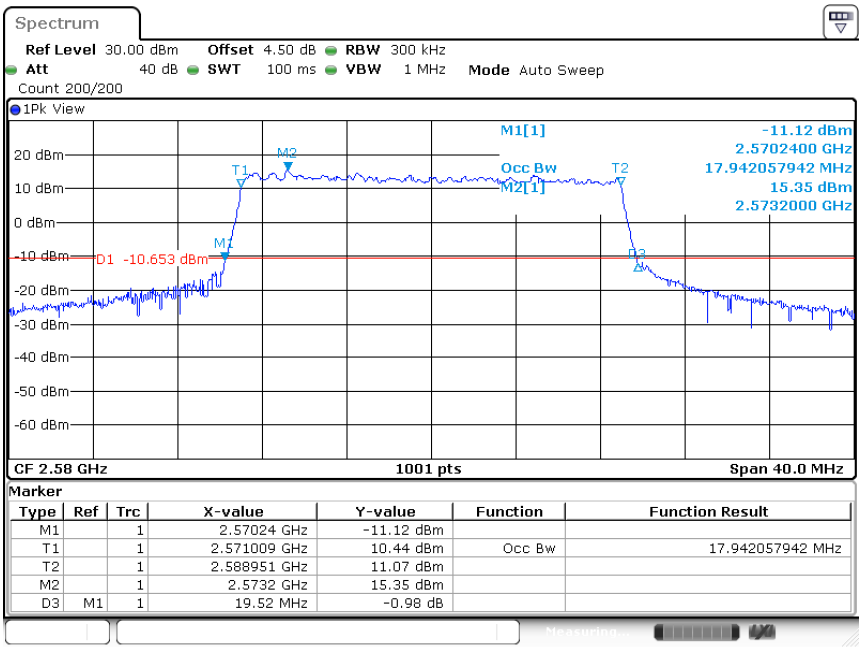
Band38-20MHz-QPSK-37850-100RB#0-17.942



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.57024 GHz	-11.12 dBm		
T1		1	2.571009 GHz	10.44 dBm	Occ Bw	17.942057942 MHz
T2		1	2.588951 GHz	11.07 dBm		
M2		1	2.5732 GHz	15.35 dBm		
D3	M1	1	19.52 MHz	-0.98 dB		

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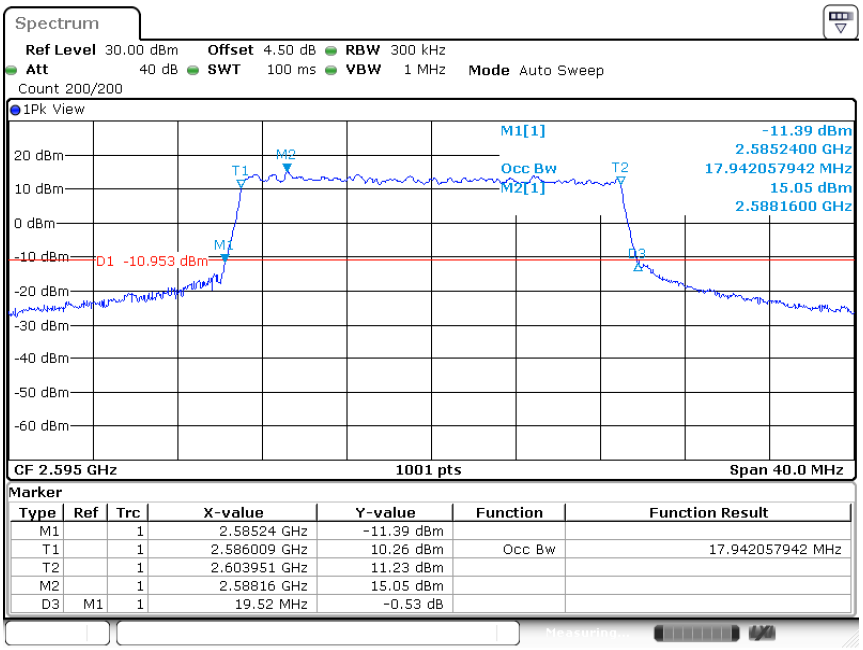
Band38-20MHz-QPSK-38000-100RB#0-17.942



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.58524 GHz	-11.39 dBm		
T1		1	2.586009 GHz	10.26 dBm	Occ Bw	17.942057942 MHz
T2		1	2.603951 GHz	11.23 dBm		
M2		1	2.58816 GHz	15.05 dBm		
D3	M1	1	19.52 MHz	-0.53 dB		

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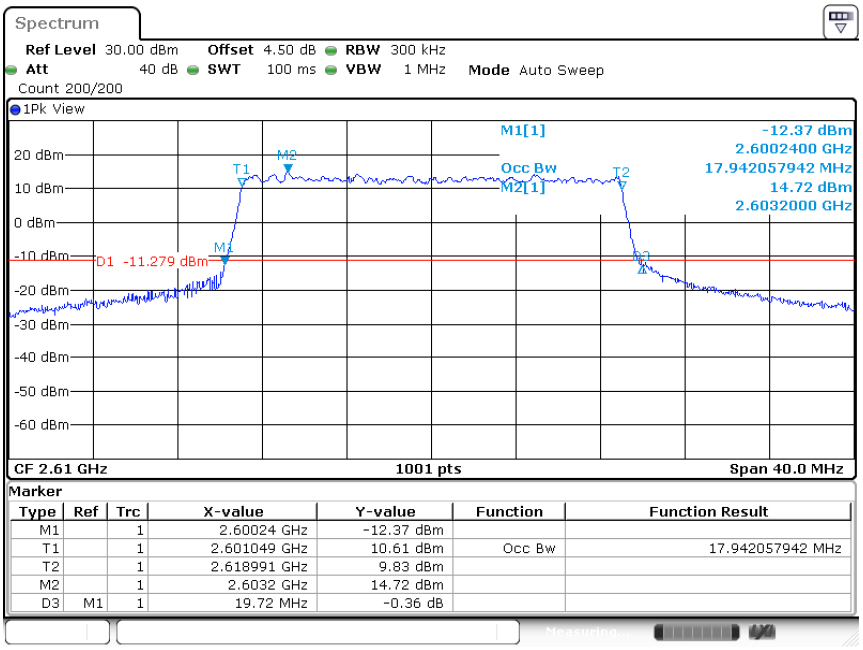
Band38-20MHz-QPSK-38150-100RB#0-17.942

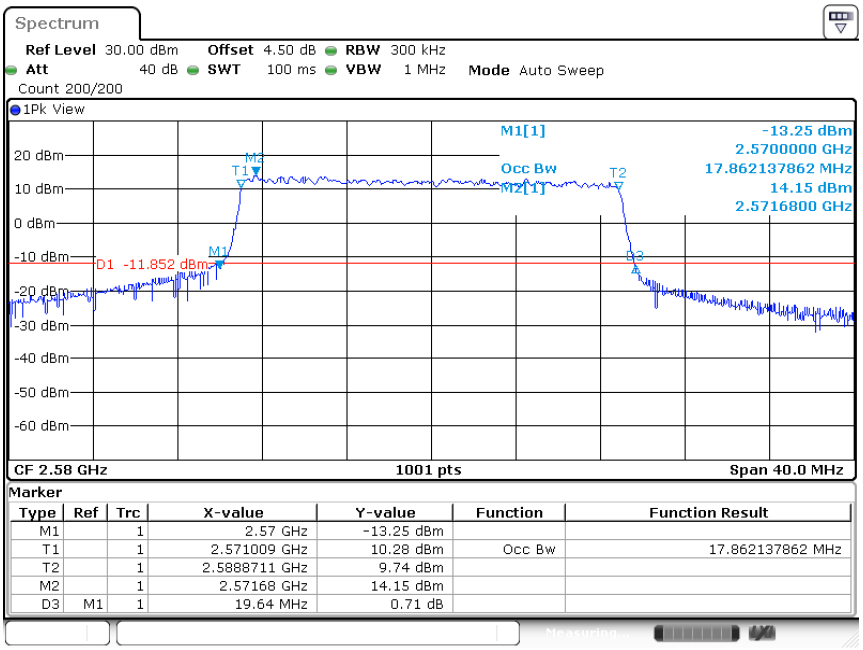


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.60024 GHz	-12.37 dBm		
T1		1	2.601049 GHz	10.61 dBm	Occ Bw	17.942057942 MHz
T2		1	2.618991 GHz	9.83 dBm		
M2		1	2.6032 GHz	14.72 dBm		
D3	M1	1	19.72 MHz	-0.36 dB		

Date: 4.SEP.2020 10:47:09

Band38-20MHz-64QAM-37850-100RB#0-17.862



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.57 GHz	-13.25 dBm		
T1		1	2.571009 GHz	10.28 dBm	Occ Bw	17.862137862 MHz
T2		1	2.5888711 GHz	9.74 dBm		
M2		1	2.57168 GHz	14.15 dBm		
D3	M1	1	19.64 MHz	0.71 dB		

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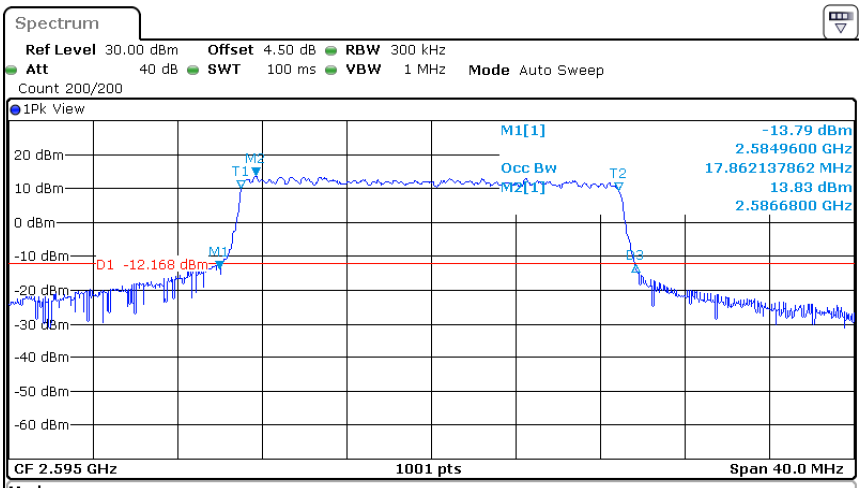

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.58496 GHz	-13.79 dBm		
T1		1	2.586009 GHz	10.03 dBm	Occ Bw	17.862137862 MHz
T2		1	2.6038711 GHz	9.58 dBm		
M2		1	2.58668 GHz	13.83 dBm		
D3	M1	1	19.68 MHz	1.43 dB		

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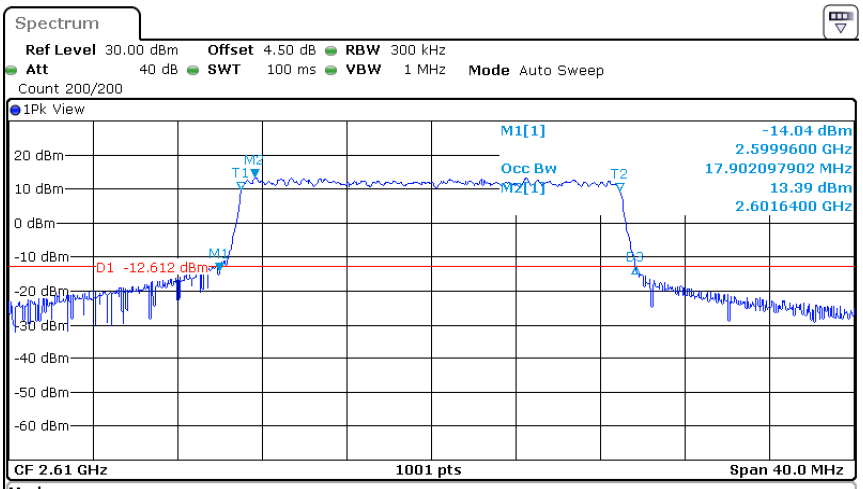
Band38-20MHz-64QAM-38150-100RB#0-17.902



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.59996 GHz	-14.04 dBm		
T1		1	2.601009 GHz	9.68 dBm	Occ Bw	17.902097902 MHz
T2		1	2.6189111 GHz	9.58 dBm		
M2		1	2.60164 GHz	13.39 dBm		
D3	M1	1	19.72 MHz	1.25 dB		

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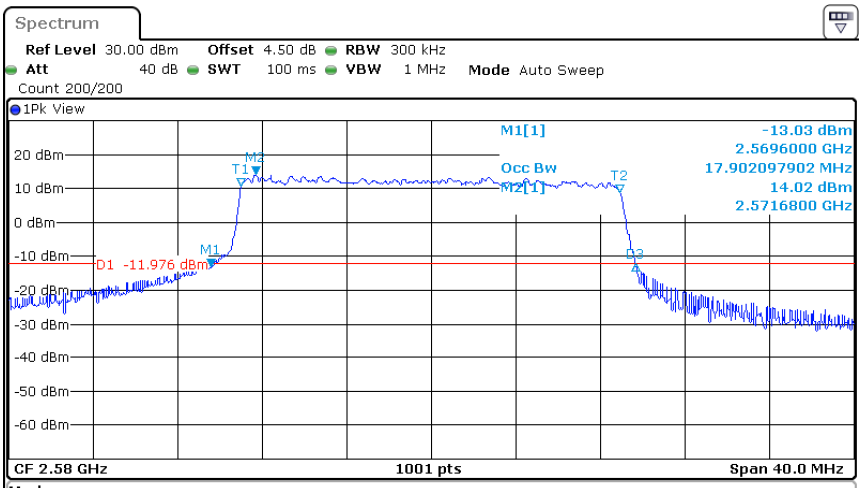

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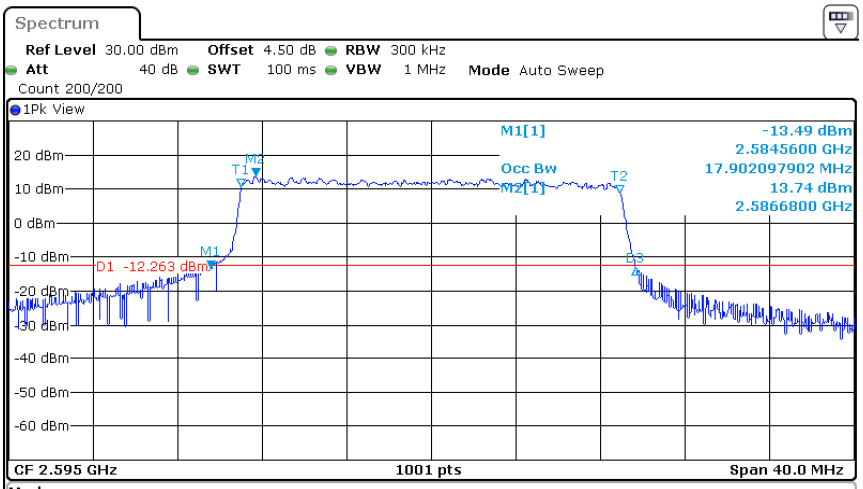
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.5696 GHz	-13.03 dBm		
T1		1	2.571009 GHz	10.77 dBm	Occ Bw	17.902097902 MHz
T2		1	2.5889111 GHz	8.73 dBm		
M2		1	2.57168 GHz	14.02 dBm		
D3	M1	1	20.04 MHz	0.90 dB		

Date: 4.SEP.2020 10:44:54

Band38-20MHz-16QAM-38000-100RB#0-17.902



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.58456 GHz	-13.49 dBm		
T1		1	2.586009 GHz	10.63 dBm	Occ Bw	17.902097902 MHz
T2		1	2.6039111 GHz	8.80 dBm		
M2		1	2.58668 GHz	13.74 dBm		
D3	M1	1	20.12 MHz	0.51 dB		

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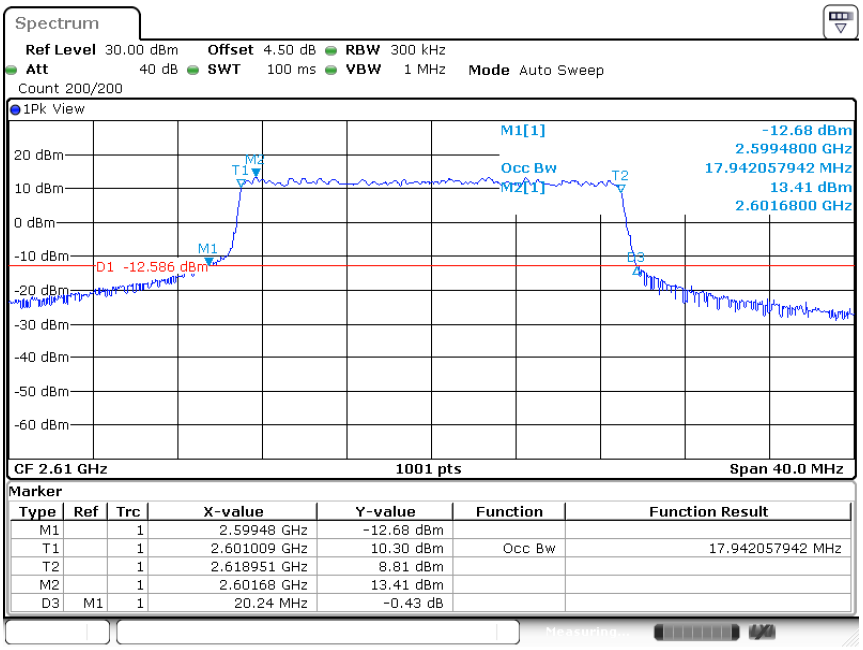

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5. Band Edge Compliance

5.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	-50.49,-50.68,-18.04	PASS
Band38	5MHz	QPSK	37775	25RB#0	-49.61,-47.83,-26.19	PASS
Band38	5MHz	QPSK	38225	1RB#24	-49.75,-49.86,-17.99	PASS
Band38	5MHz	QPSK	38225	25RB#0	-49.42,-48.27,-26.49	PASS
Band38	5MHz	64QAM	37775	1RB#0	-51.75,-51.82,-16.83	PASS
Band38	5MHz	64QAM	37775	25RB#0	-51.06,-49.08,-28.64	PASS
Band38	5MHz	64QAM	38225	1RB#24	-50.52,-51.77,-18.43	PASS
Band38	5MHz	64QAM	38225	25RB#0	-50.84,-49.68,-28.00	PASS
Band38	5MHz	16QAM	37775	1RB#0	-51.22,-51.03,-16.76	PASS
Band38	5MHz	16QAM	37775	25RB#0	-50.50,-48.84,-25.91	PASS
Band38	5MHz	16QAM	38225	1RB#24	-50.10,-50.36,-19.05	PASS
Band38	5MHz	16QAM	38225	25RB#0	-50.95,-49.38,-26.98	PASS
Band38	10MHz	QPSK	37800	1RB#0	-50.37,-47.54,-21.91	PASS
Band38	10MHz	QPSK	37800	50RB#0	-46.16,-38.16,-29.42	PASS
Band38	10MHz	QPSK	38200	1RB#49	-50.39,-46.94,-21.84	PASS
Band38	10MHz	QPSK	38200	50RB#0	-47.44,-39.78,-30.98	PASS
Band38	10MHz	64QAM	37800	1RB#0	-50.56,-48.04,-24.20	PASS
Band38	10MHz	64QAM	37800	50RB#0	-47.98,-39.55,-30.38	PASS
Band38	10MHz	64QAM	38200	1RB#49	-50.51,-47.35,-26.01	PASS
Band38	10MHz	64QAM	38200	50RB#0	-48.07,-42.87,-33.24	PASS
Band38	10MHz	16QAM	37800	1RB#0	-50.68,-47.85,-22.55	PASS
Band38	10MHz	16QAM	37800	50RB#0	-47.63,-39.58,-30.82	PASS
Band38	10MHz	16QAM	38200	1RB#49	-50.67,-47.31,-25.02	PASS
Band38	10MHz	16QAM	38200	50RB#0	-48.20,-42.92,-32.56	PASS
Band38	15MHz	QPSK	37825	1RB#0	-45.87,-39.90,-23.14	PASS
Band38	15MHz	QPSK	37825	75RB#0	-46.54,-36.77,-32.47	PASS
Band38	15MHz	QPSK	38175	1RB#74	-48.02,-43.45,-23.37	PASS
Band38	15MHz	QPSK	38175	75RB#0	-46.60,-37.69,-32.37	PASS
Band38	15MHz	64QAM	37825	1RB#0	-46.21,-41.10,-23.00	PASS
Band38	15MHz	64QAM	37825	75RB#0	-46.64,-38.21,-32.61	PASS
Band38	15MHz	64QAM	38175	1RB#74	-48.25,-44.62,-22.98	PASS
Band38	15MHz	64QAM	38175	75RB#0	-46.91,-40.97,-34.64	PASS

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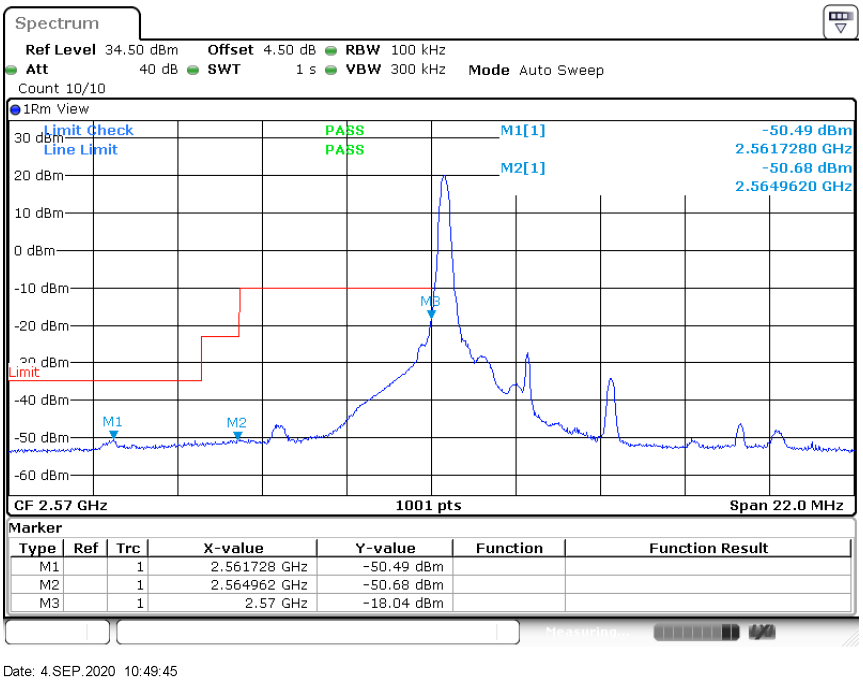
Band38	15MHz	16QAM	37825	1RB#0	-46.10,-40.03,-25.10	PASS
Band38	15MHz	16QAM	37825	75RB#0	-46.94,-37.92,-32.52	PASS
Band38	15MHz	16QAM	38175	1RB#74	-47.91,-43.08,-22.84	PASS
Band38	15MHz	16QAM	38175	75RB#0	-46.76,-41.19,-34.33	PASS
Band38	20MHz	QPSK	37850	1RB#0	-46.45,-40.66,-21.11	PASS
Band38	20MHz	QPSK	37850	100RB#0	-44.48,-35.48,-32.82	PASS
Band38	20MHz	QPSK	38150	1RB#99	-46.50,-41.80,-20.86	PASS
Band38	20MHz	QPSK	38150	100RB#0	-44.96,-36.55,-32.40	PASS
Band38	20MHz	64QAM	37850	1RB#0	-46.62,-41.85,-21.44	PASS
Band38	20MHz	64QAM	37850	100RB#0	-45.12,-37.89,-32.89	PASS
Band38	20MHz	64QAM	38150	1RB#99	-46.75,-42.48,-22.39	PASS
Band38	20MHz	64QAM	38150	100RB#0	-45.26,-39.40,-34.92	PASS
Band38	20MHz	16QAM	37850	1RB#0	-46.28,-40.82,-20.78	PASS
Band38	20MHz	16QAM	37850	100RB#0	-45.34,-36.61,-32.26	PASS
Band38	20MHz	16QAM	38150	1RB#99	-46.46,-40.94,-23.31	PASS
Band38	20MHz	16QAM	38150	100RB#0	-45.34,-39.49,-35.31	PASS

5.2. Test Plots

Band38-5MHz-QPSK-37775-1RB#0



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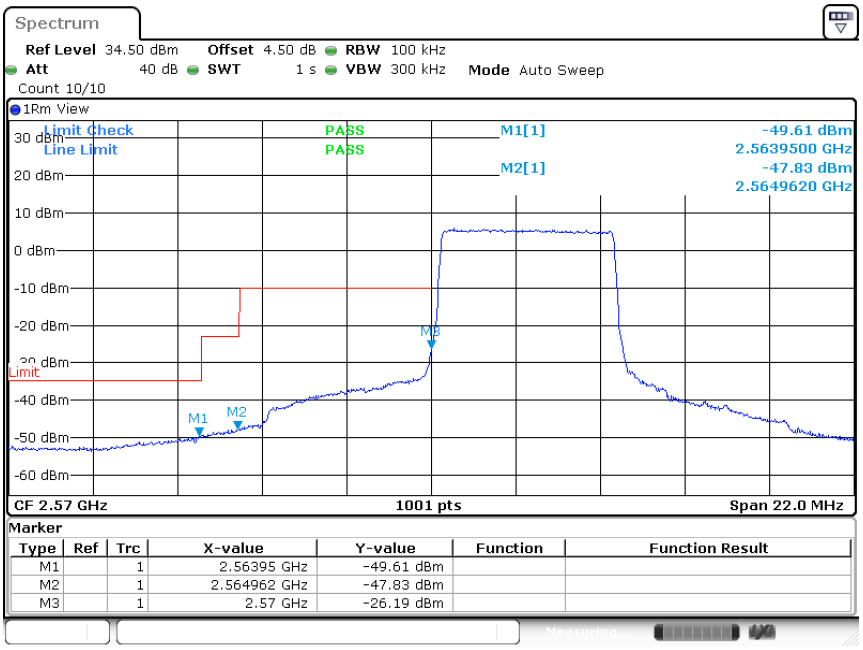

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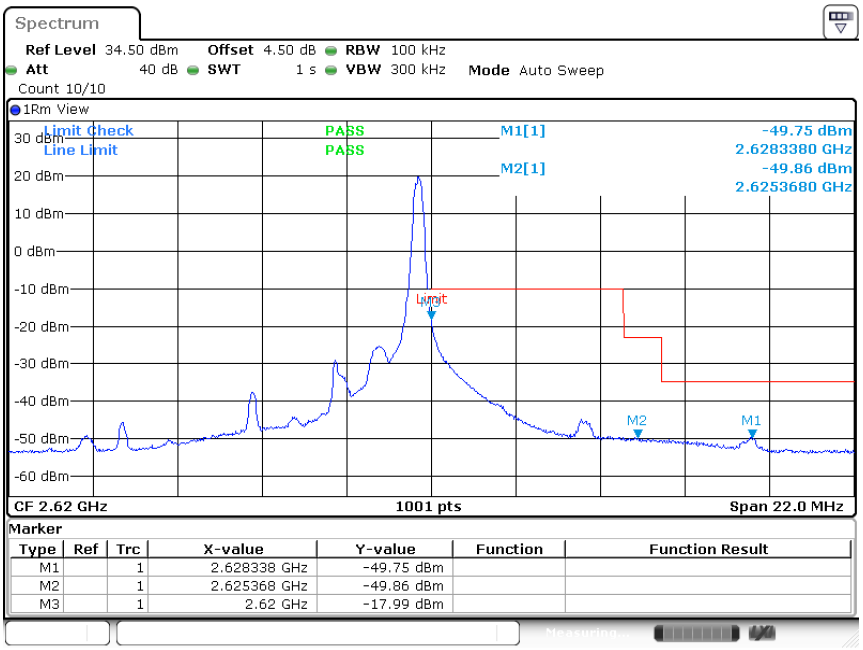

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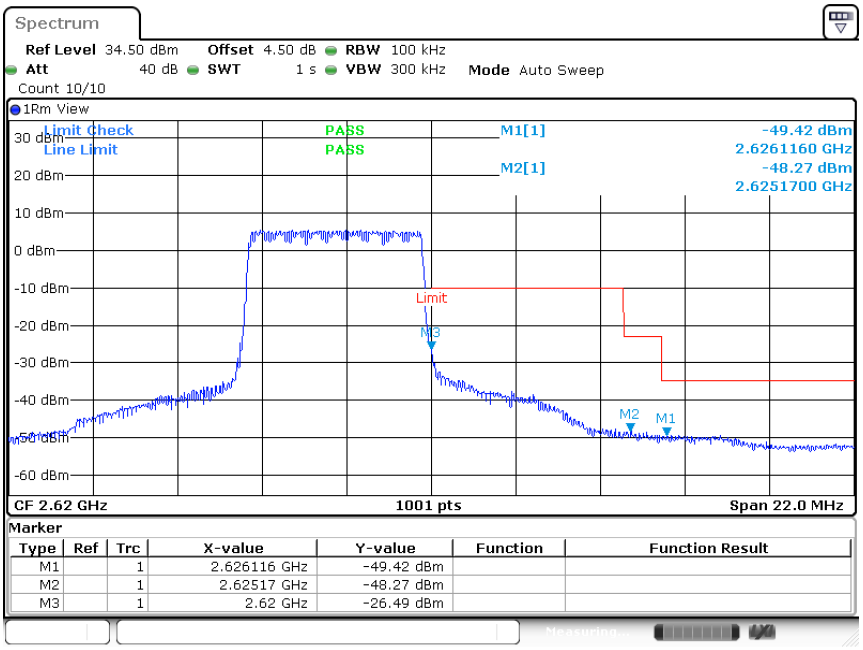

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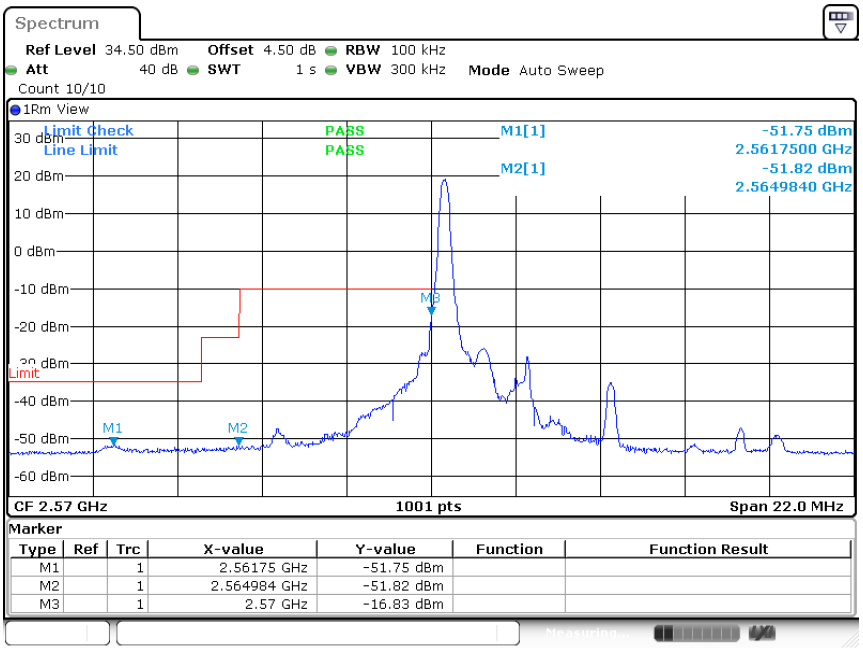
Band38-5MHz-64QAM-37775-1RB#0



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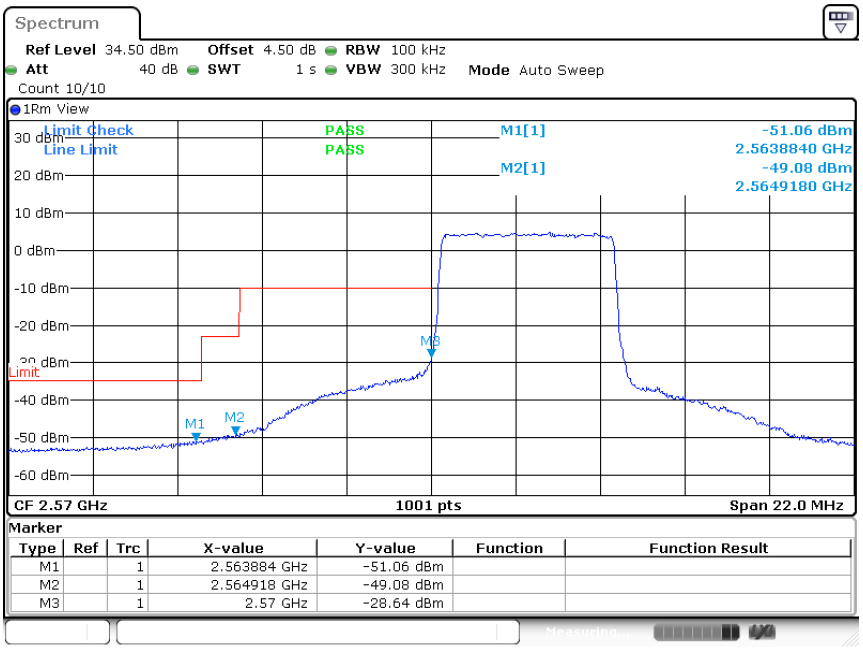

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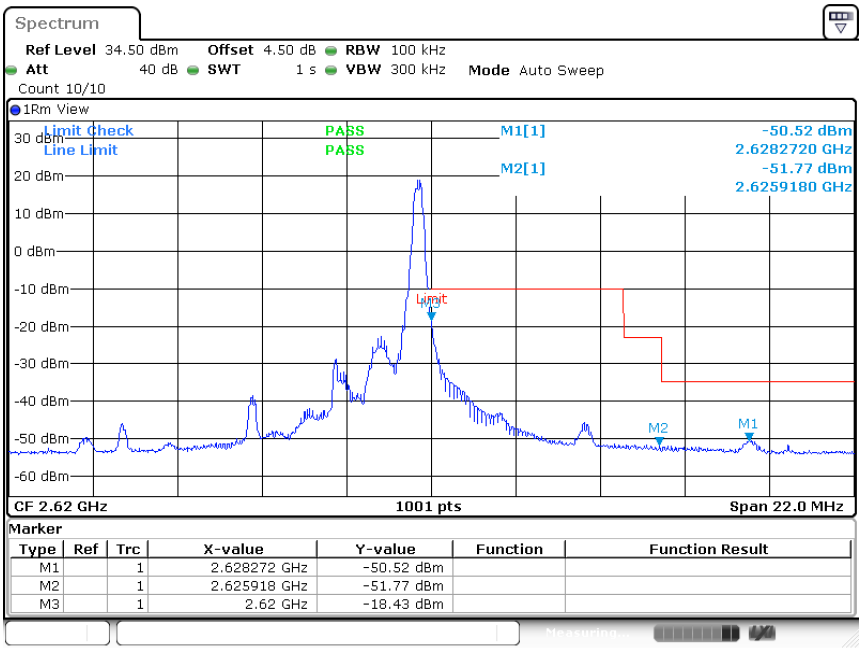
Band38-5MHz-64QAM-38225-1RB#24



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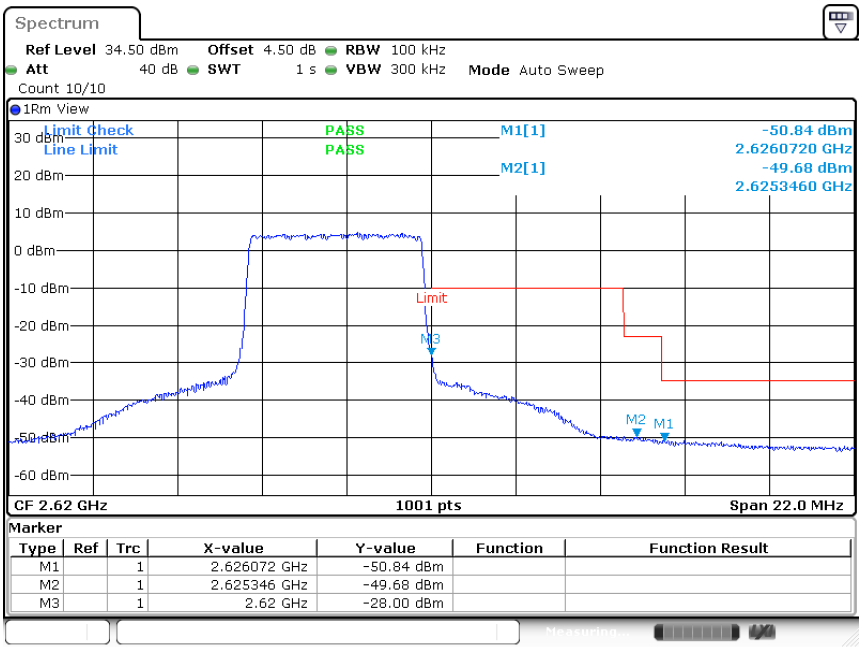

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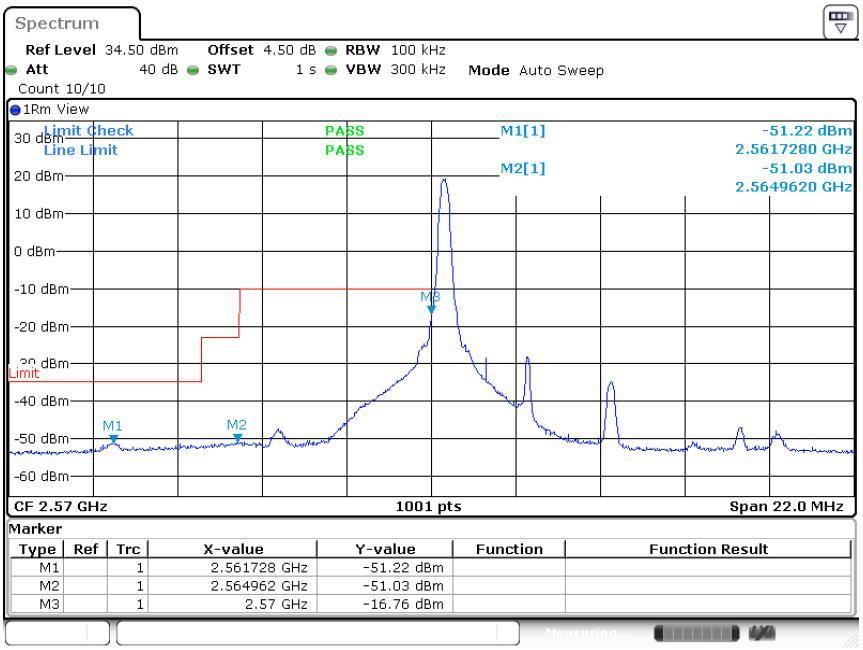

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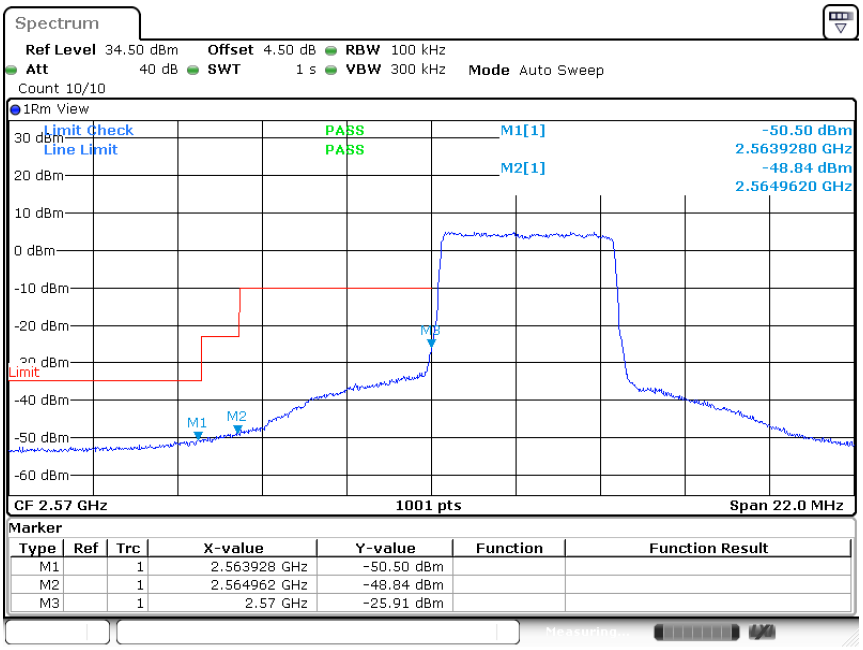

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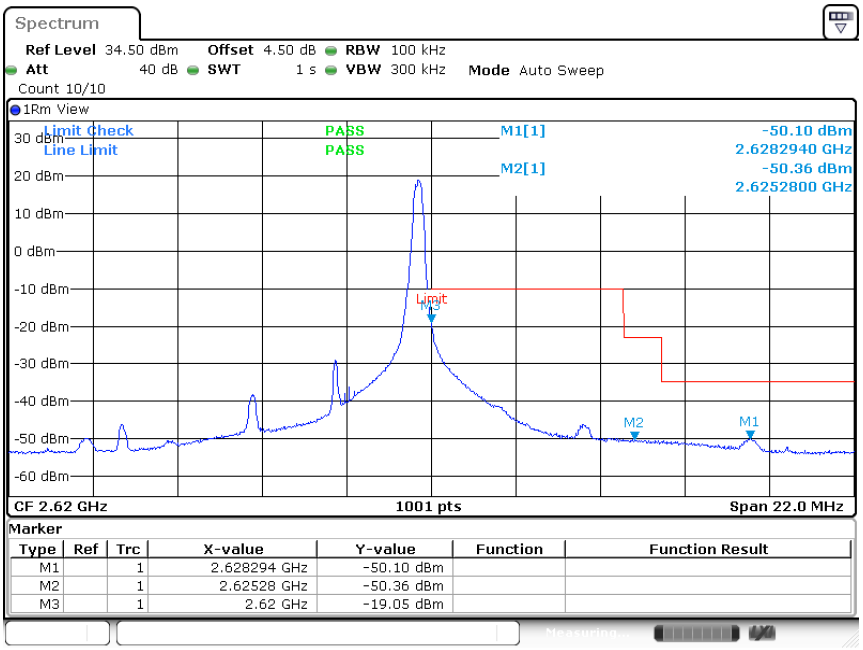

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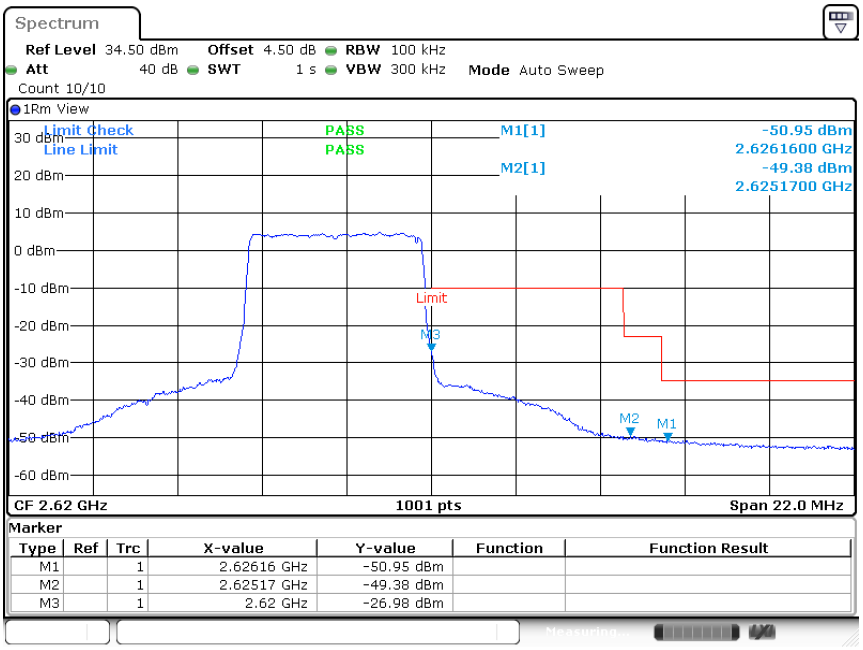

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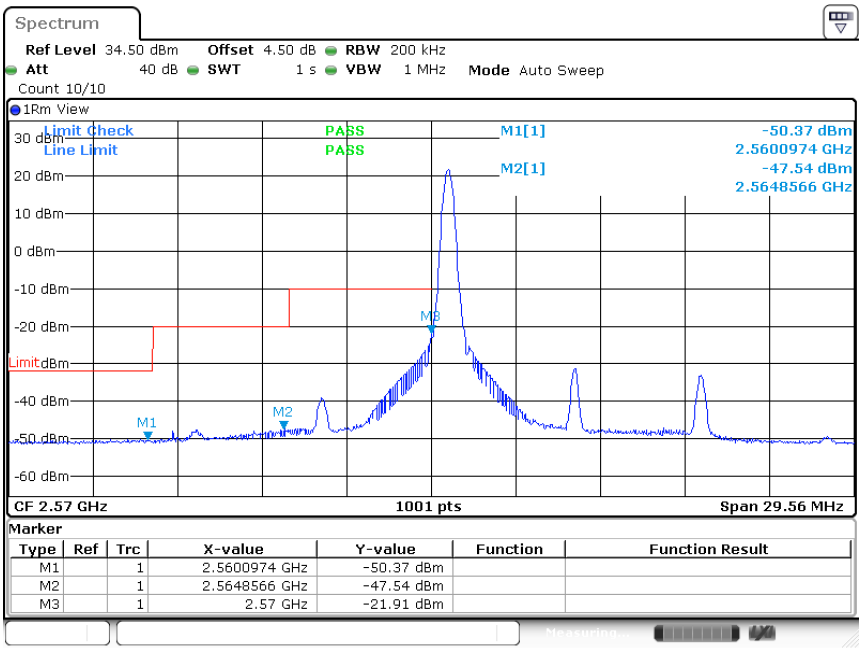

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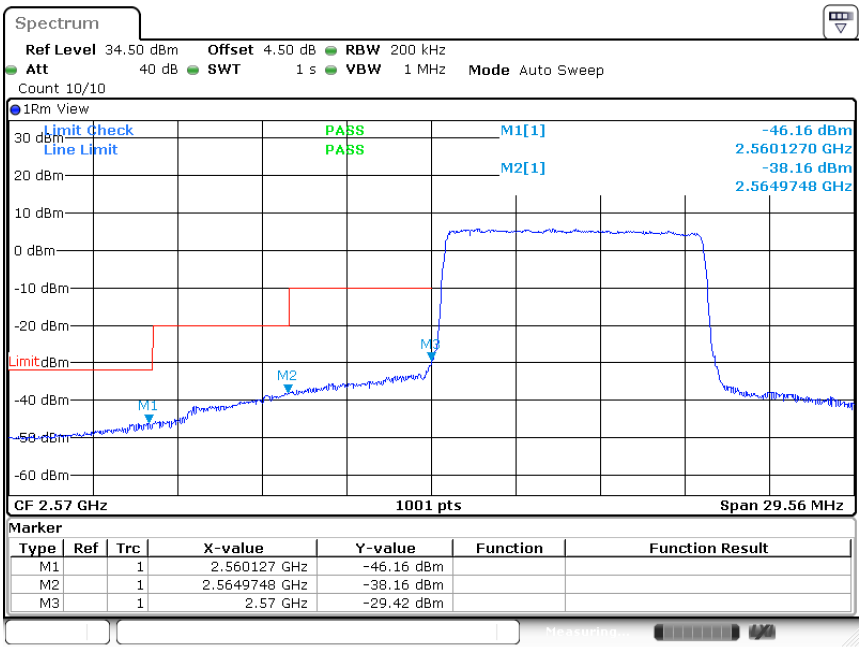
Band38-10MHz-QPSK-37800-50RB#0



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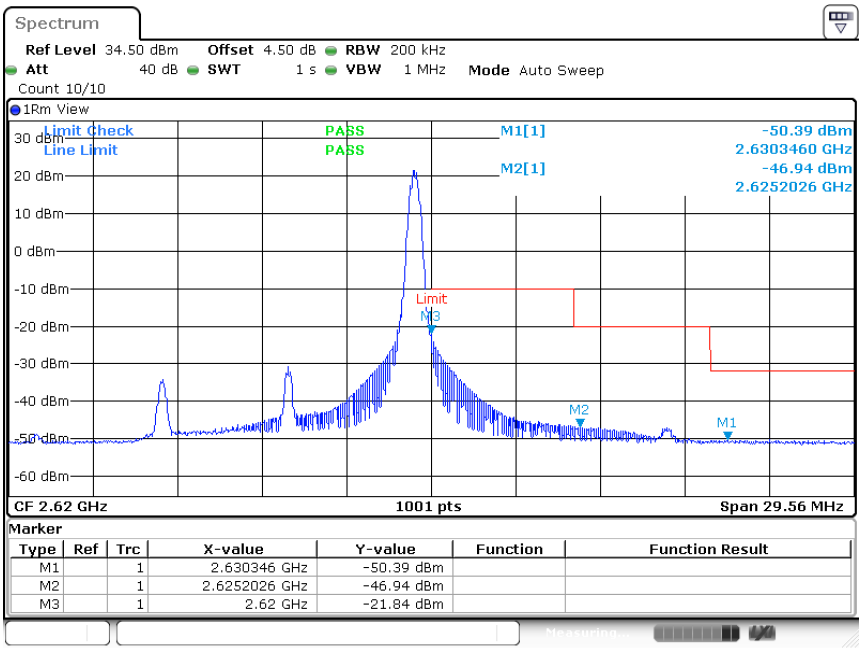

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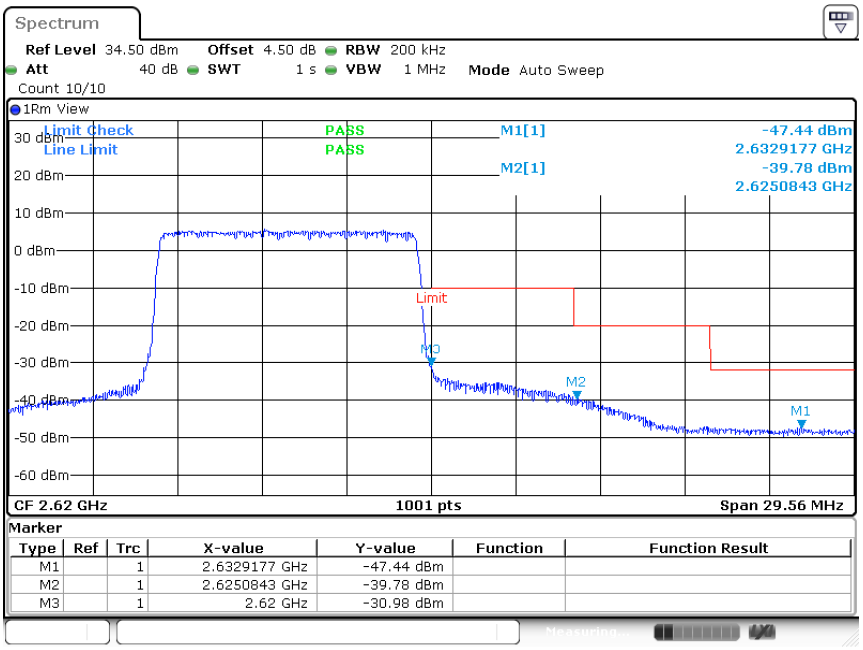
Band38-10MHz-QPSK-38200-50RB#0



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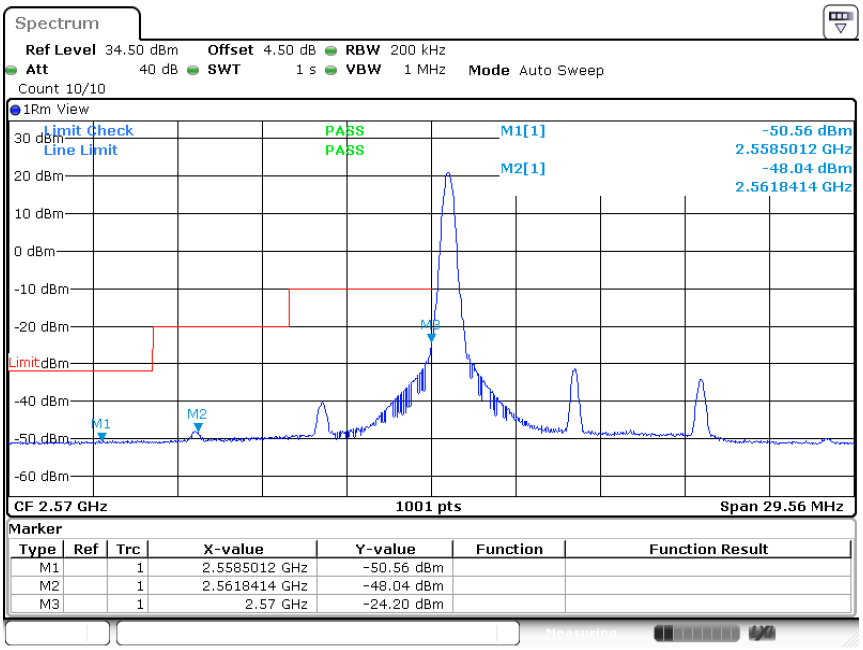

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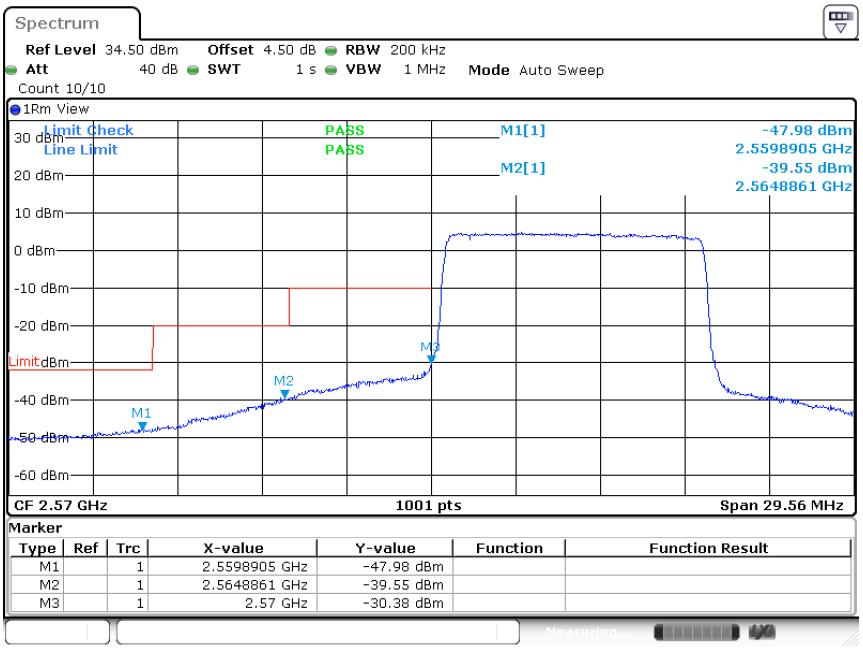
Band38-10MHz-64QAM-37800-50RB#0



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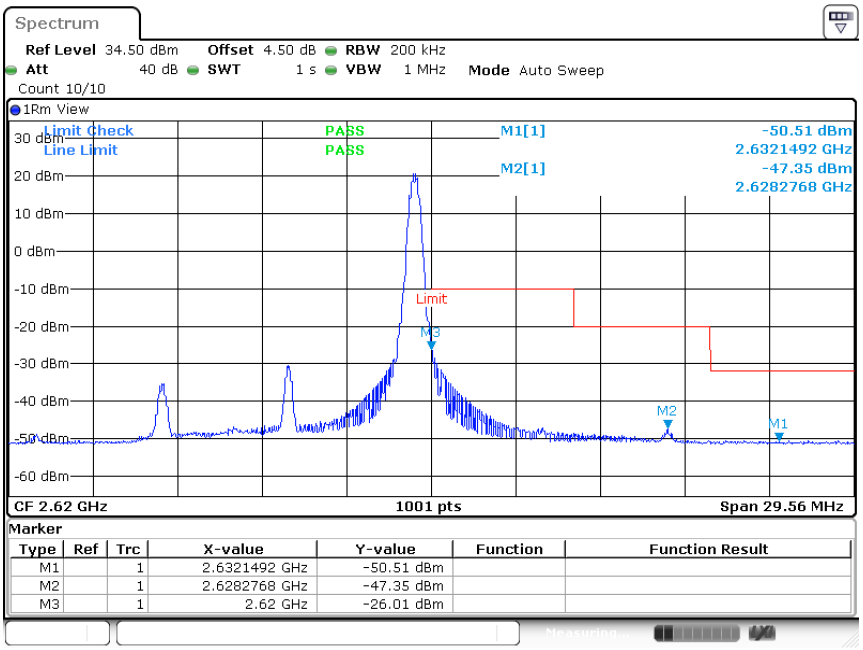
Band38-10MHz-64QAM-38200-1RB#49



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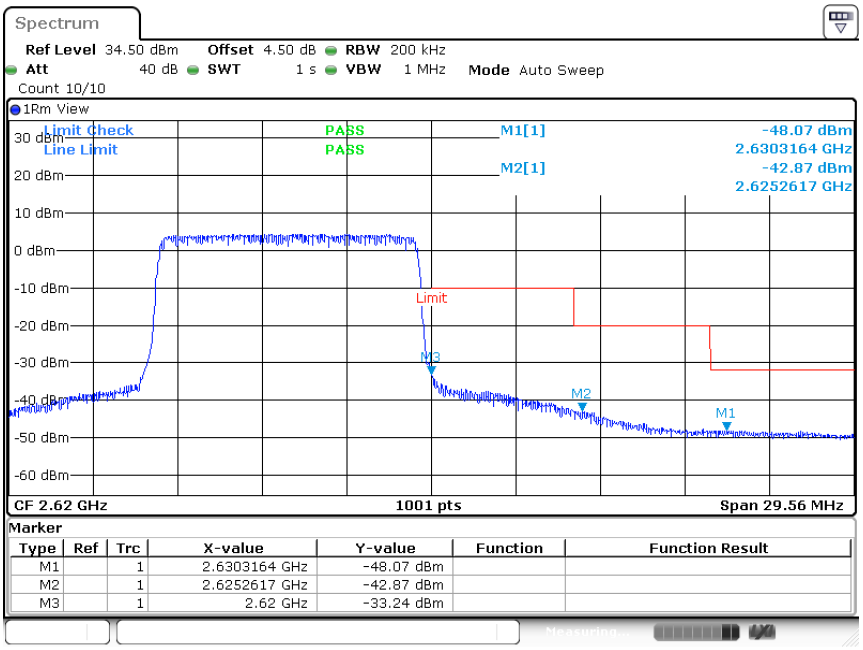

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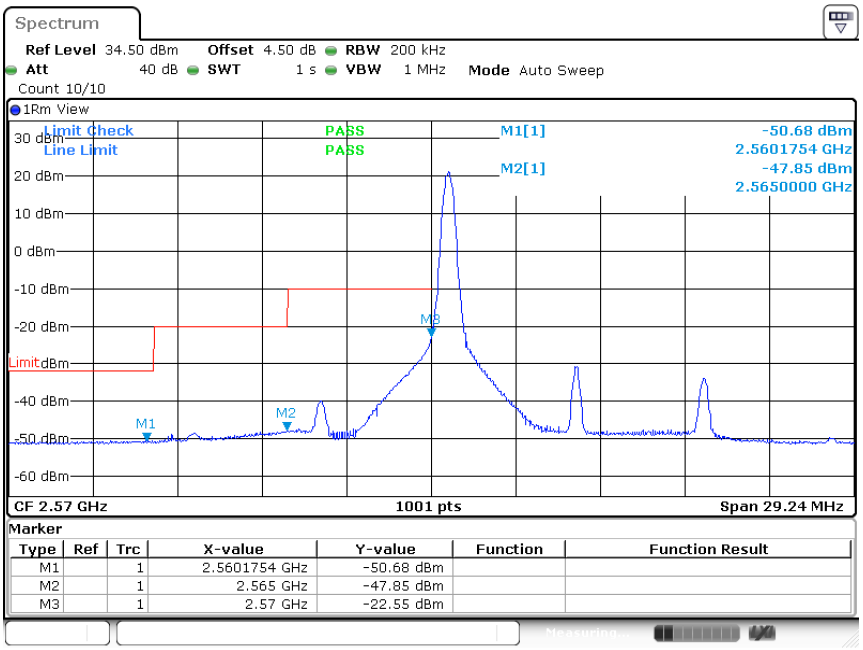

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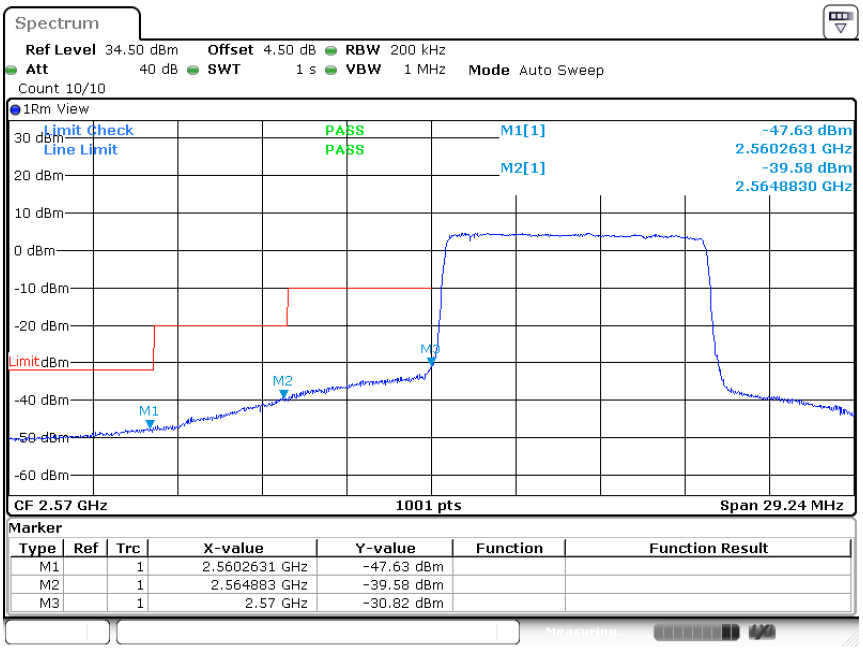

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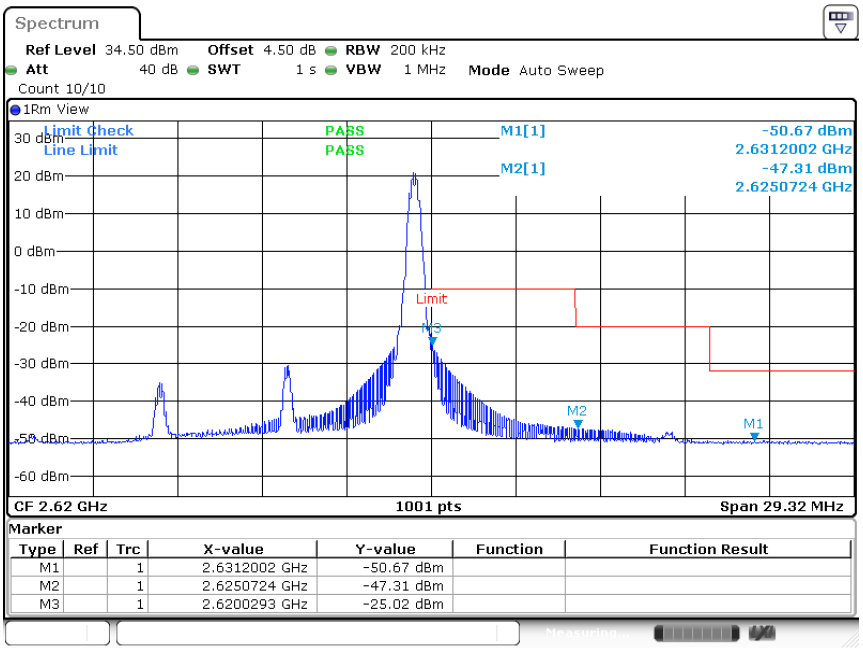
Band38-10MHz-16QAM-38200-1RB#49



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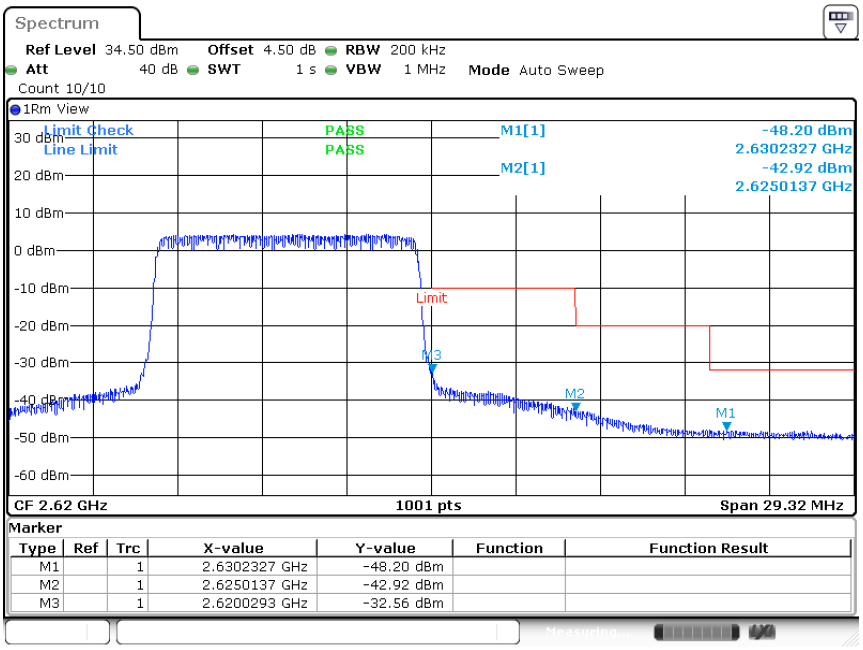

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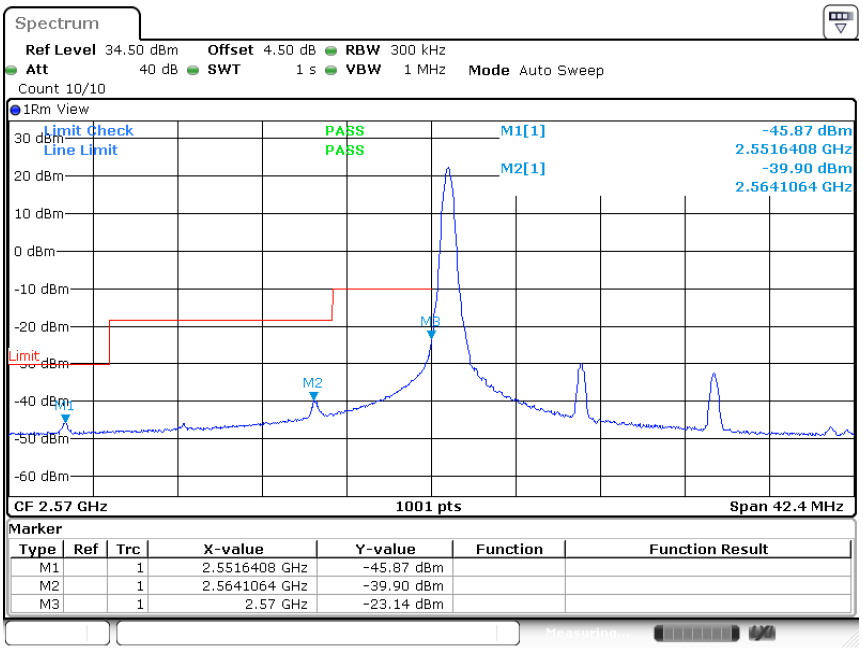

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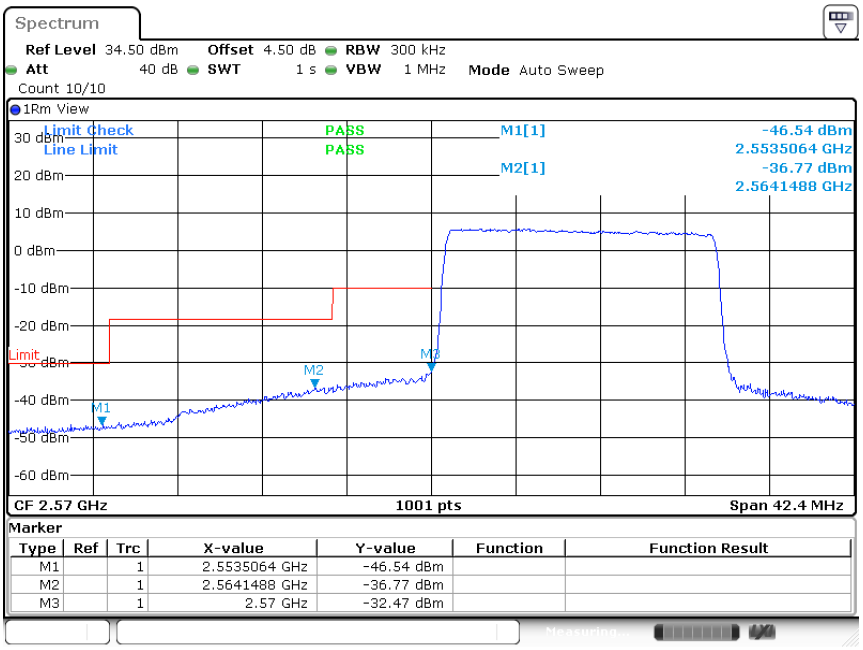
Band38-15MHz-QPSK-37825-75RB#0



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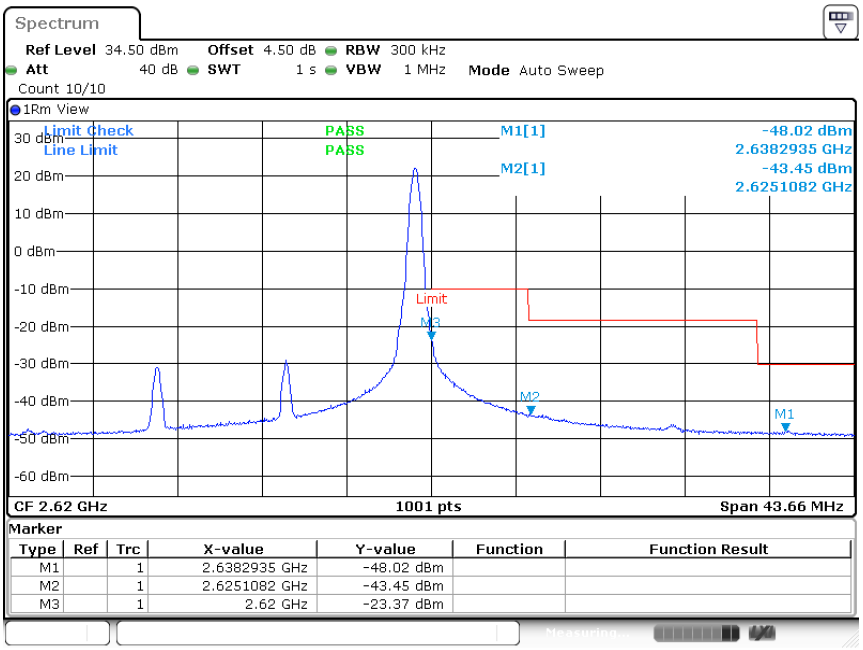
Band38-15MHz-QPSK-38175-1RB#74



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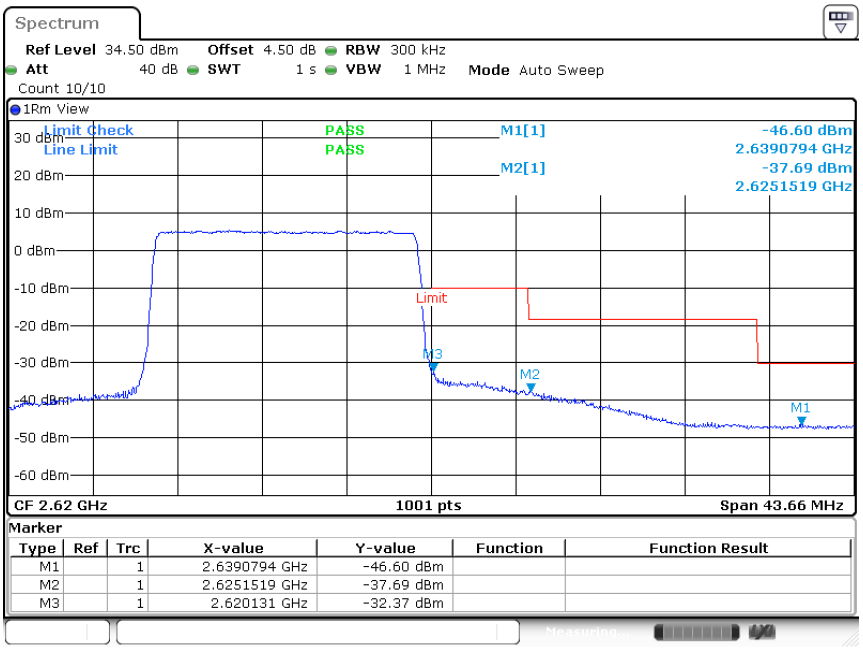

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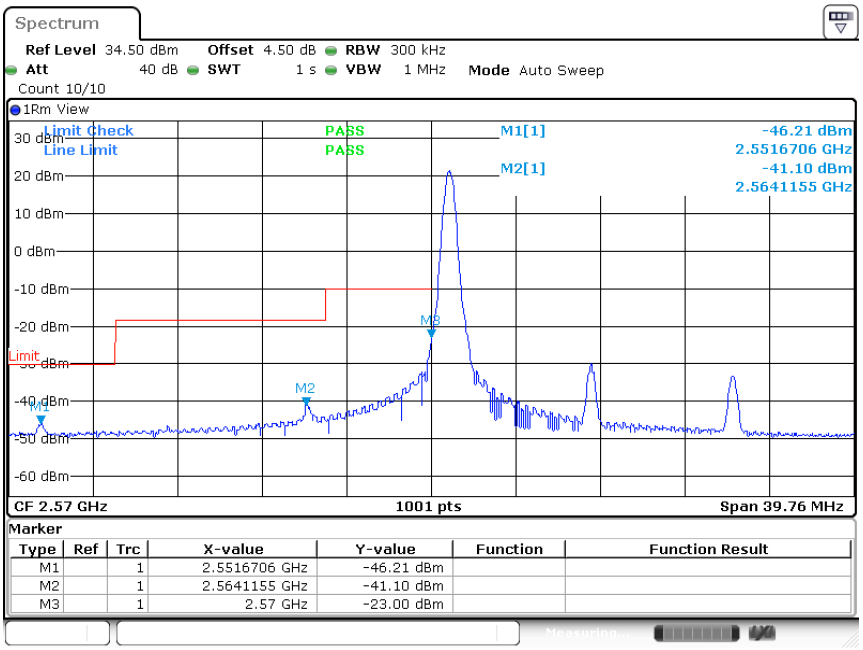

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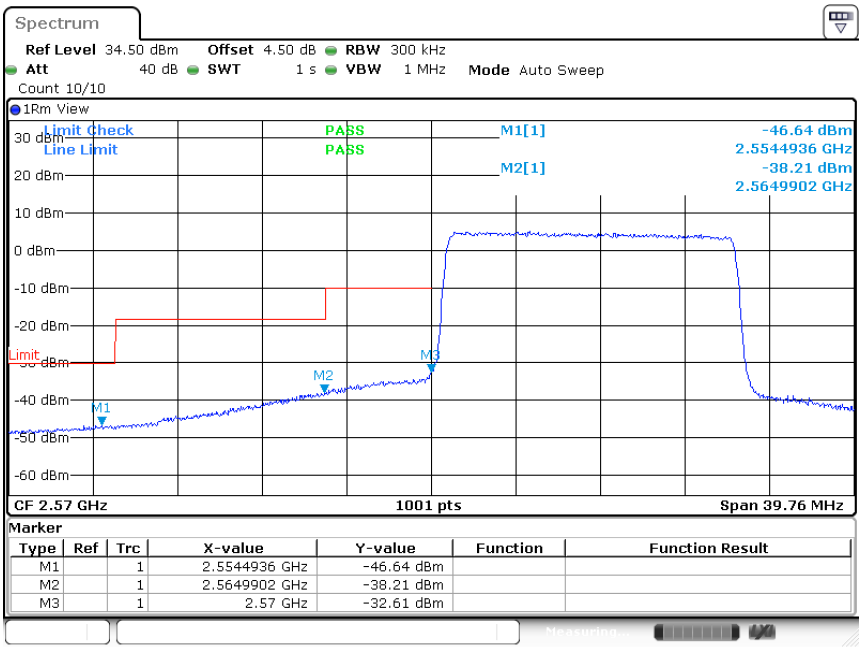

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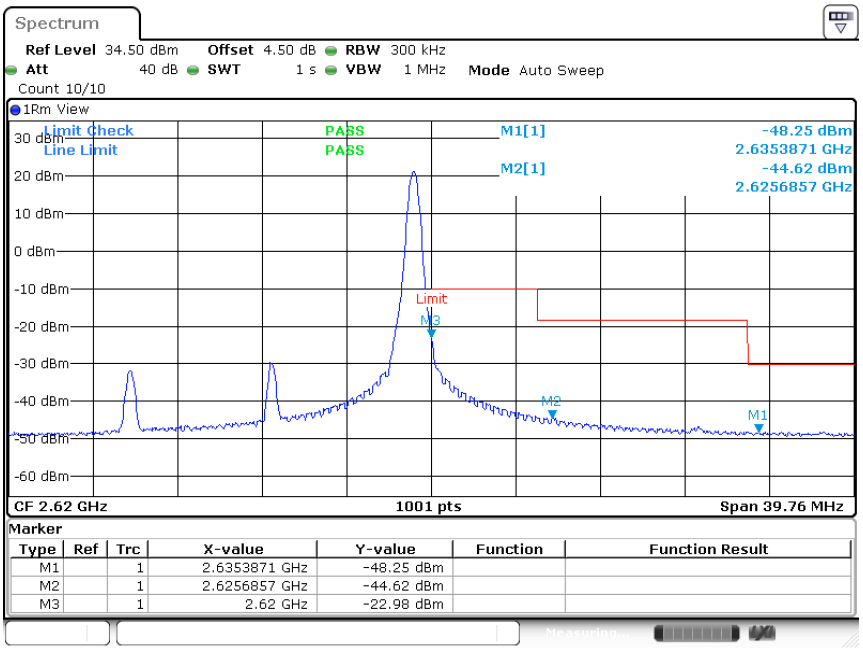

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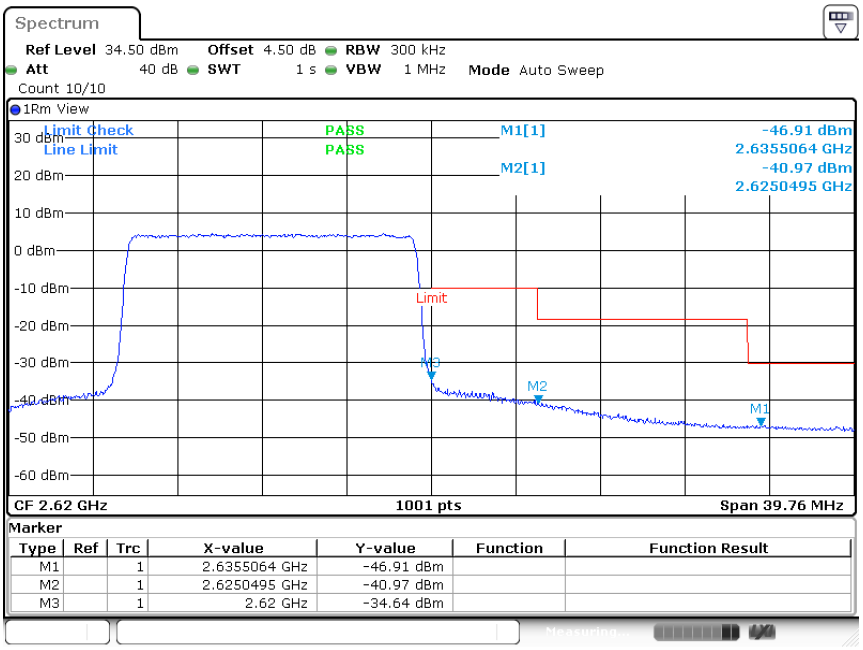

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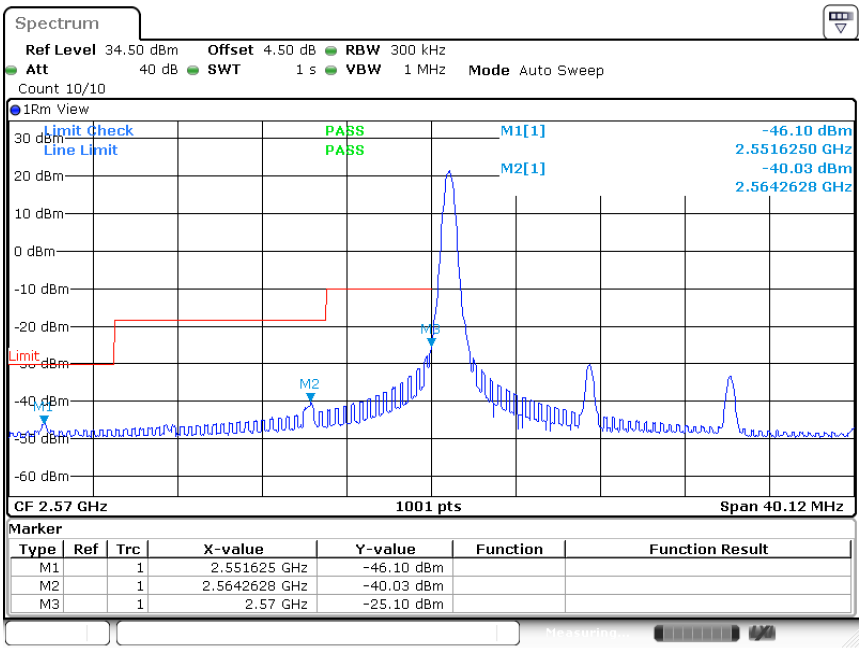

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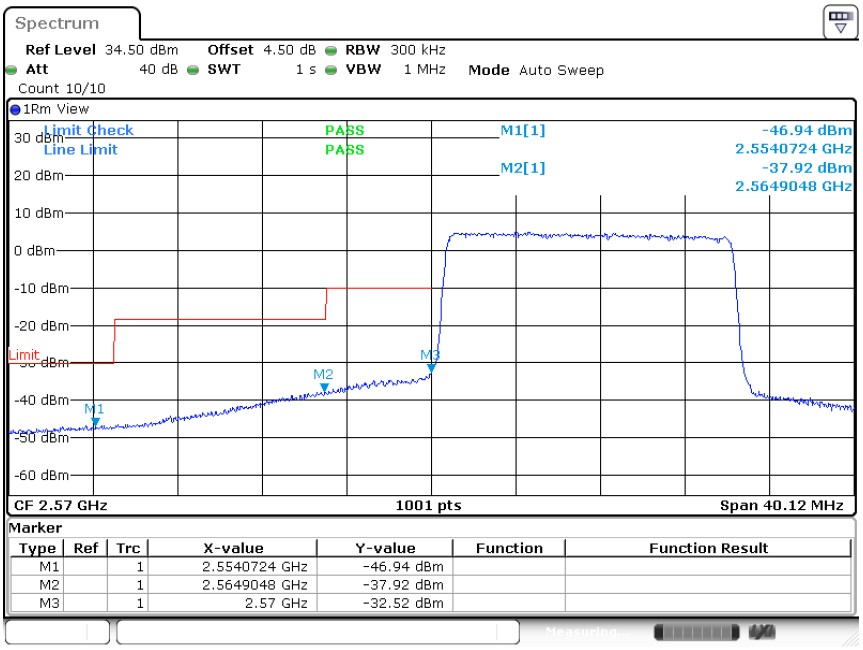

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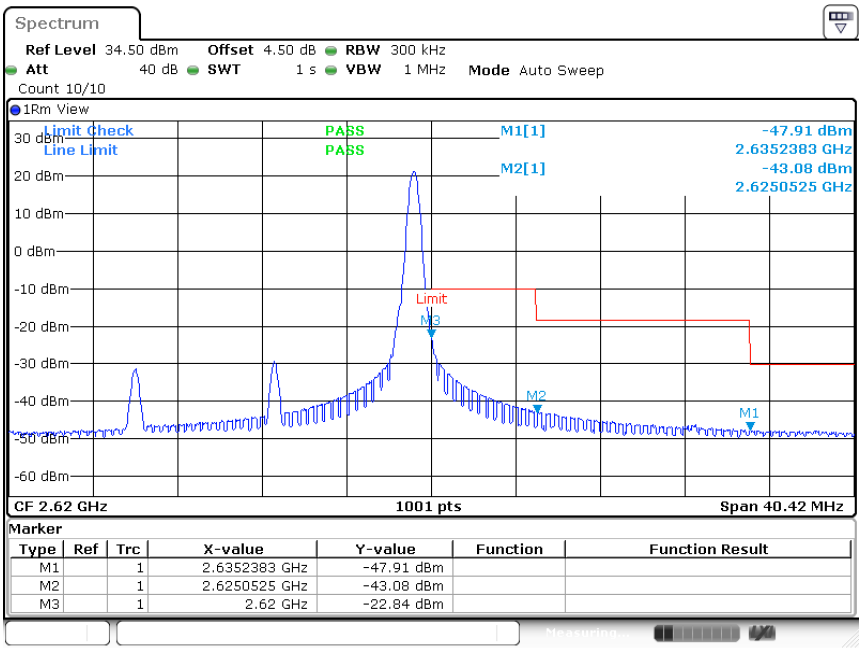

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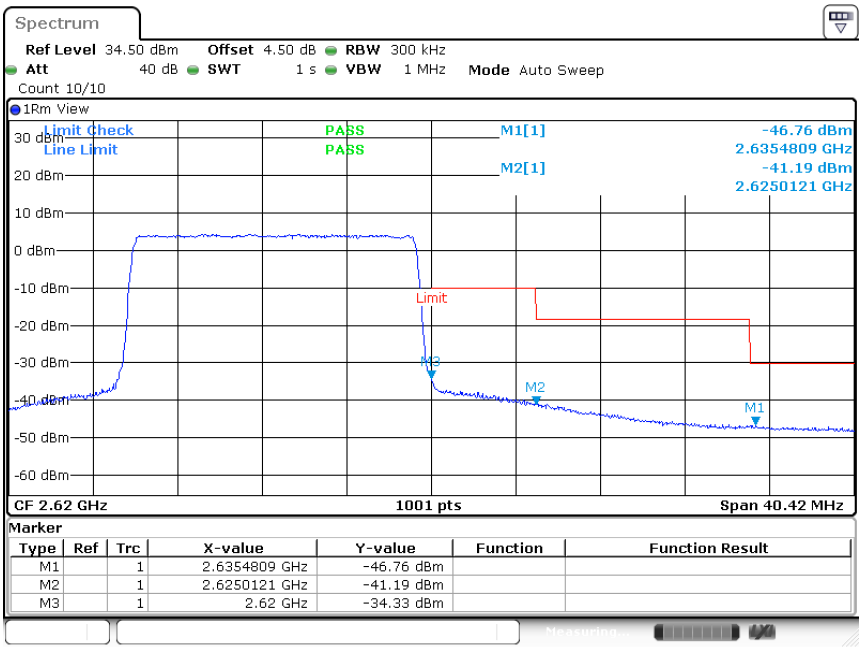

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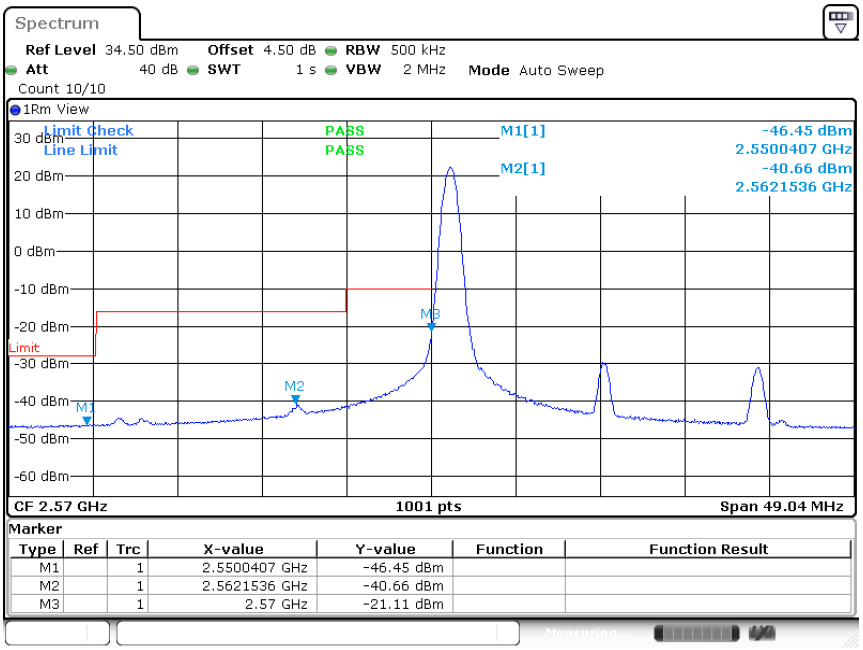

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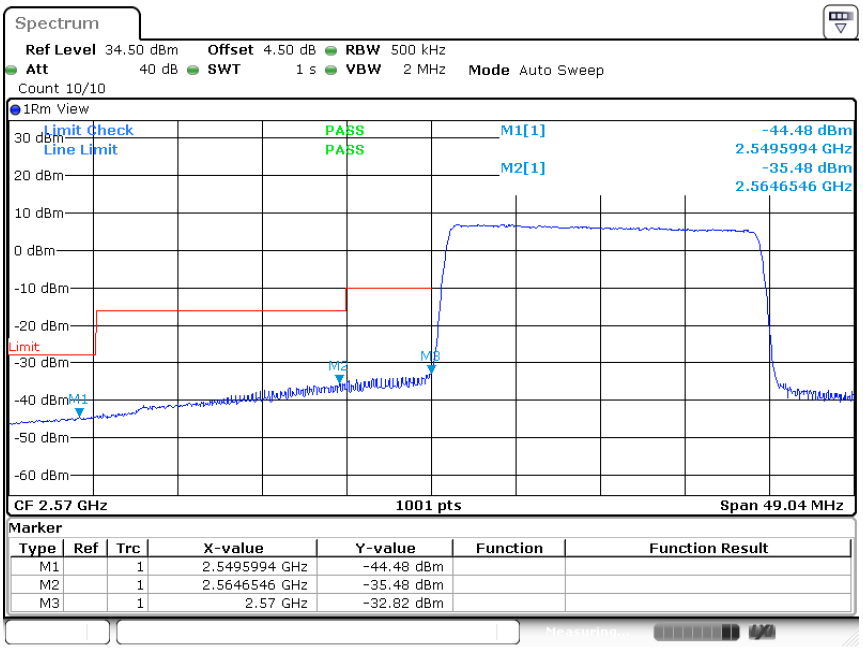
Band38-20MHz-QPSK-37850-100RB#0



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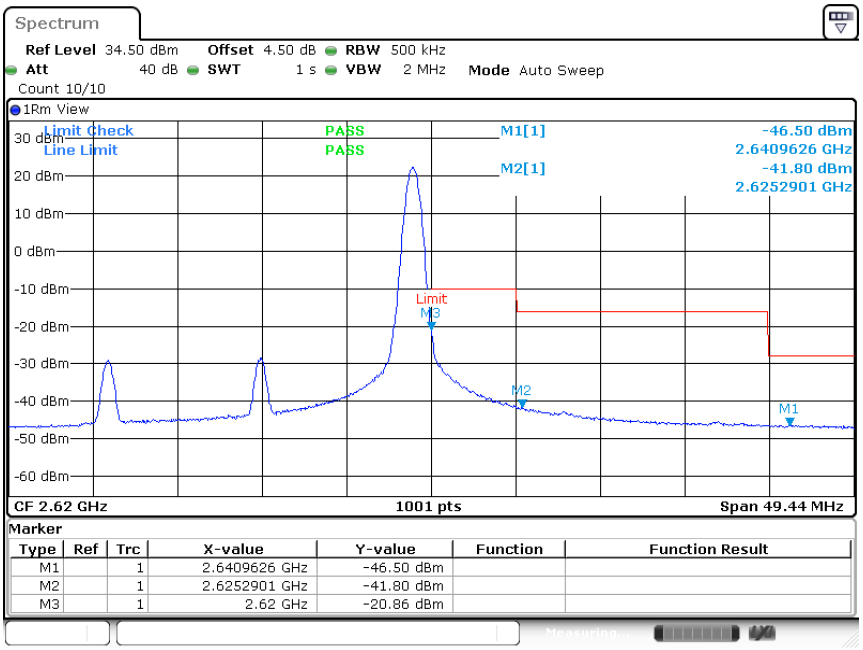

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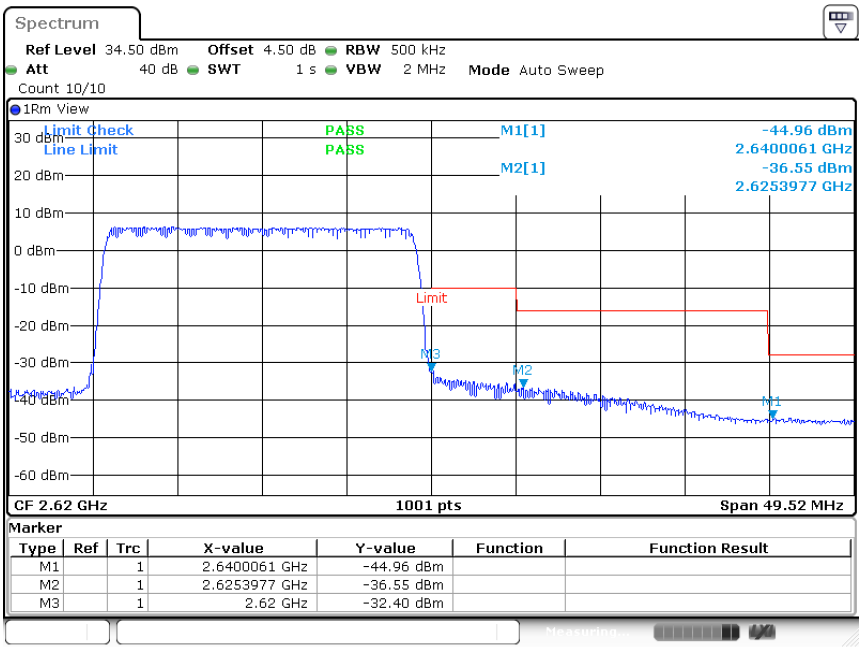

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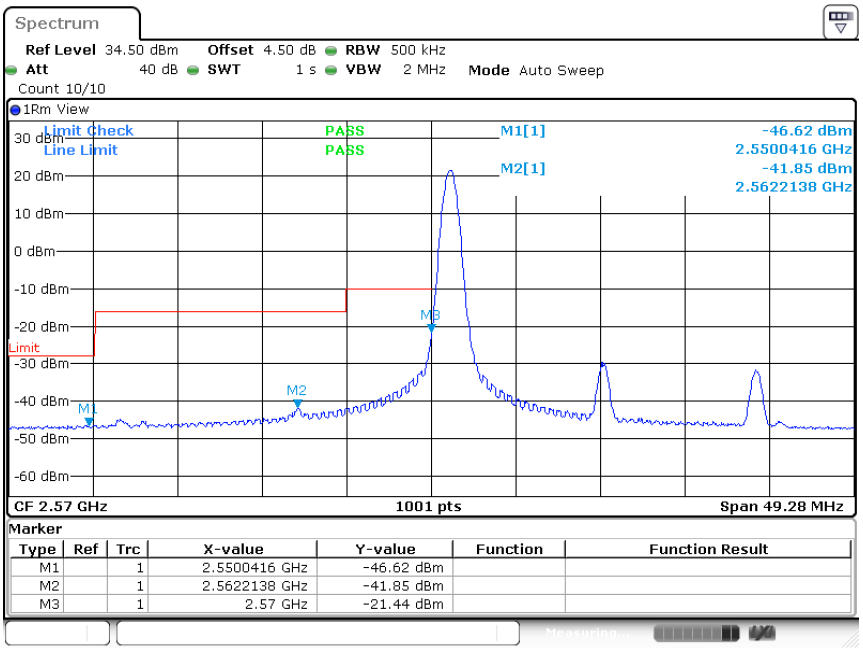
Band38-20MHz-64QAM-37850-1RB#0



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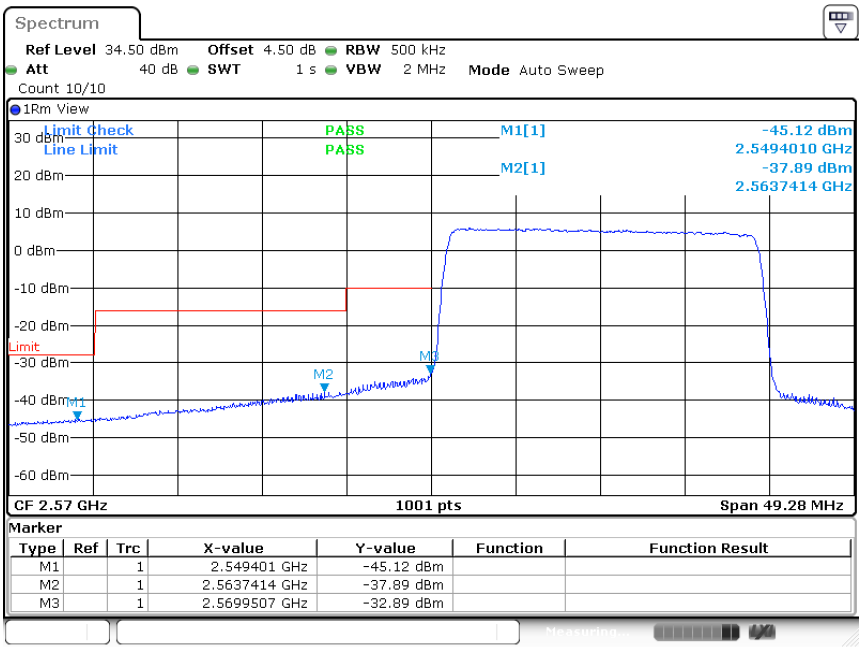

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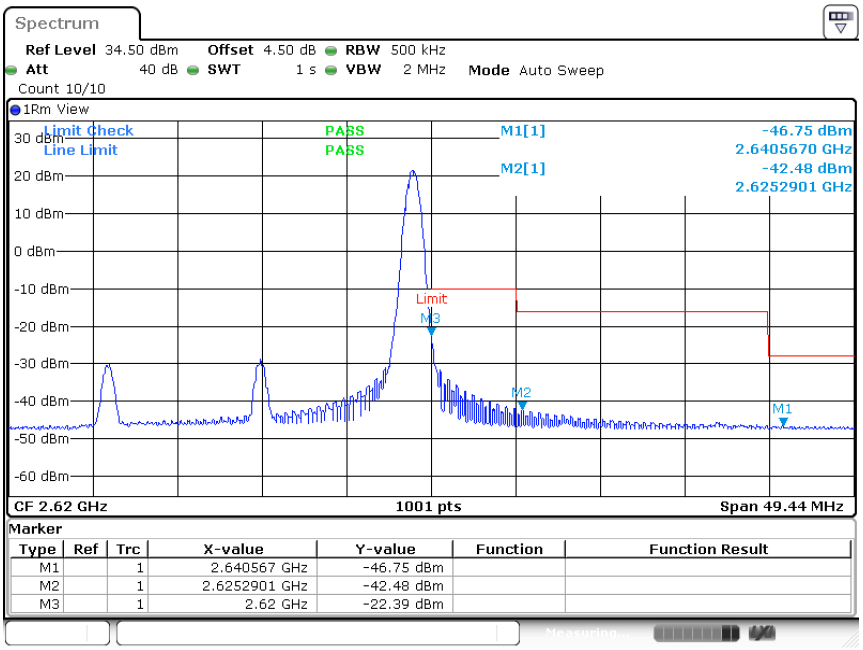
Band38-20MHz-64QAM-38150-1RB#99



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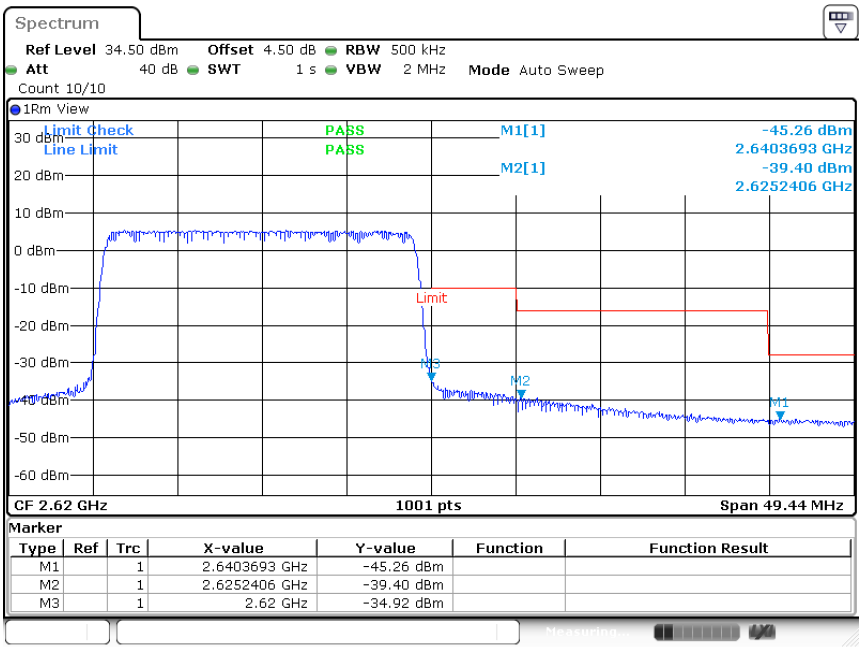

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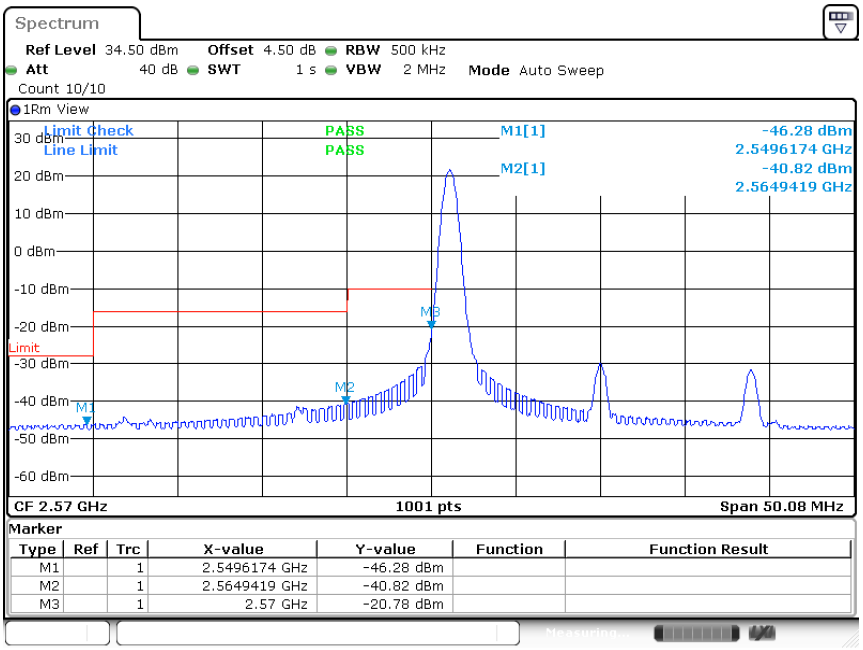
Band38-20MHz-16QAM-37850-1RB#0



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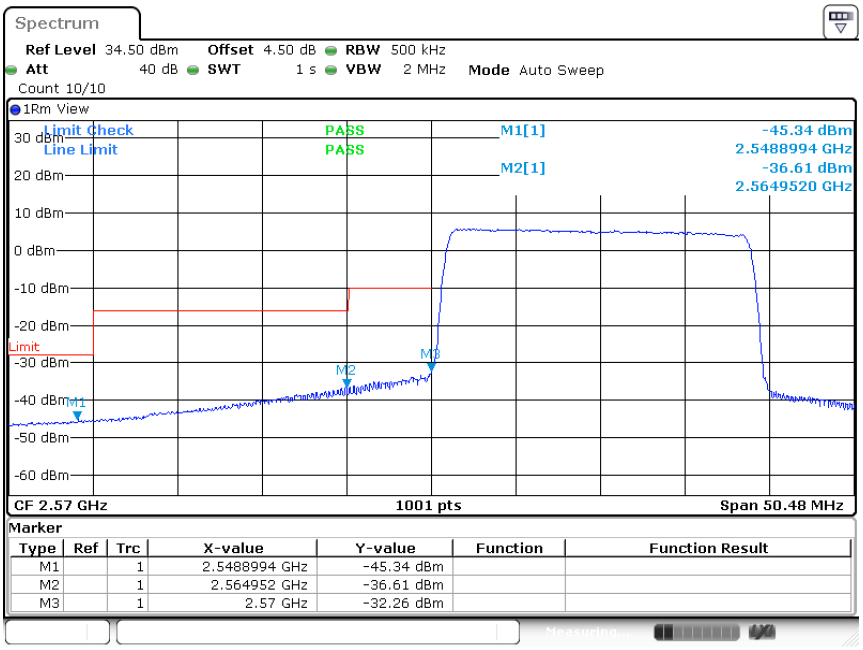

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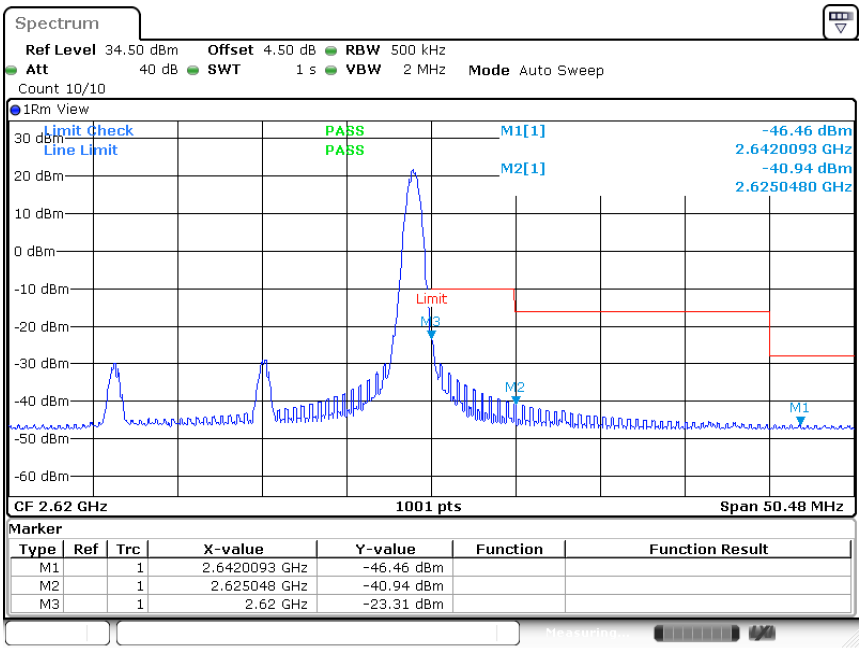

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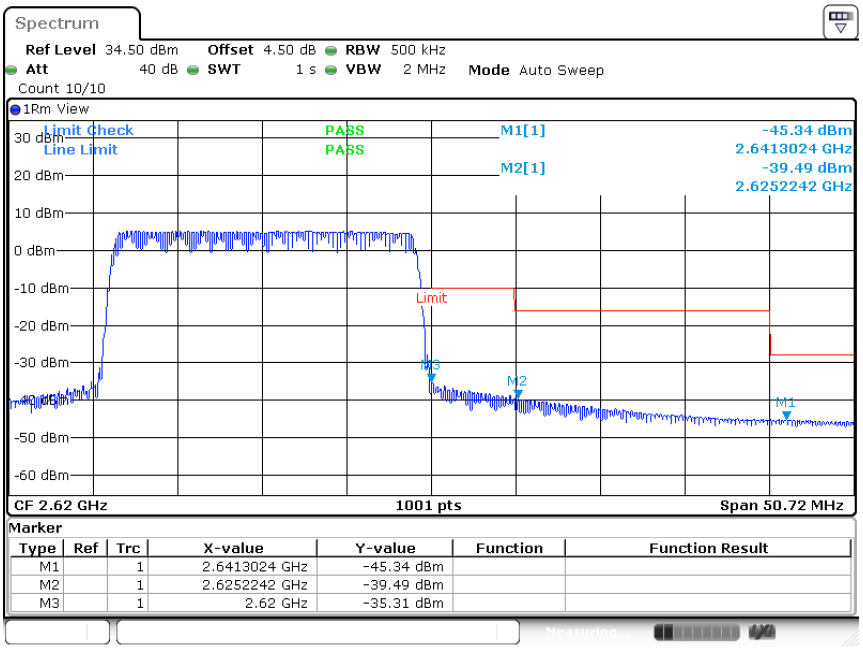

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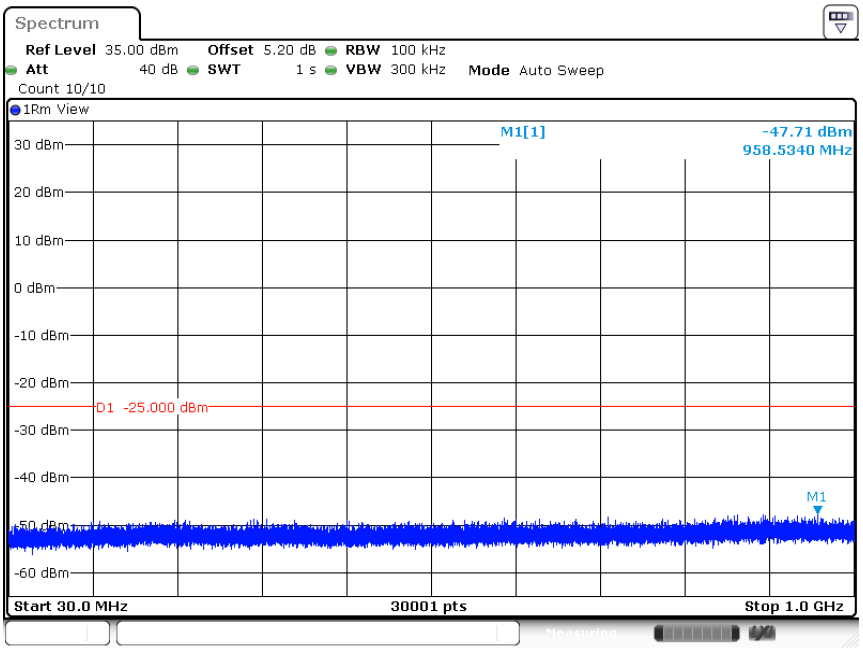
6. Spurious Emission at Antenna Terminal

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.

6.1. Test Plots

Band38-20MHz-QPSK-37850-1RB#0-Range1:30~1000MHz



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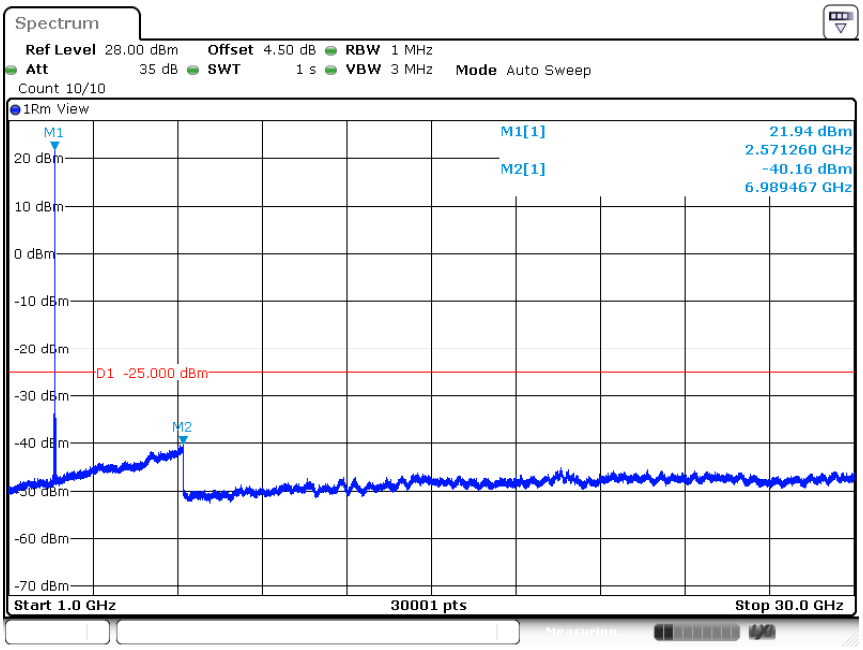
Band38-20MHz-QPSK-37850-1RB#0-Range2:1000~30000MHz



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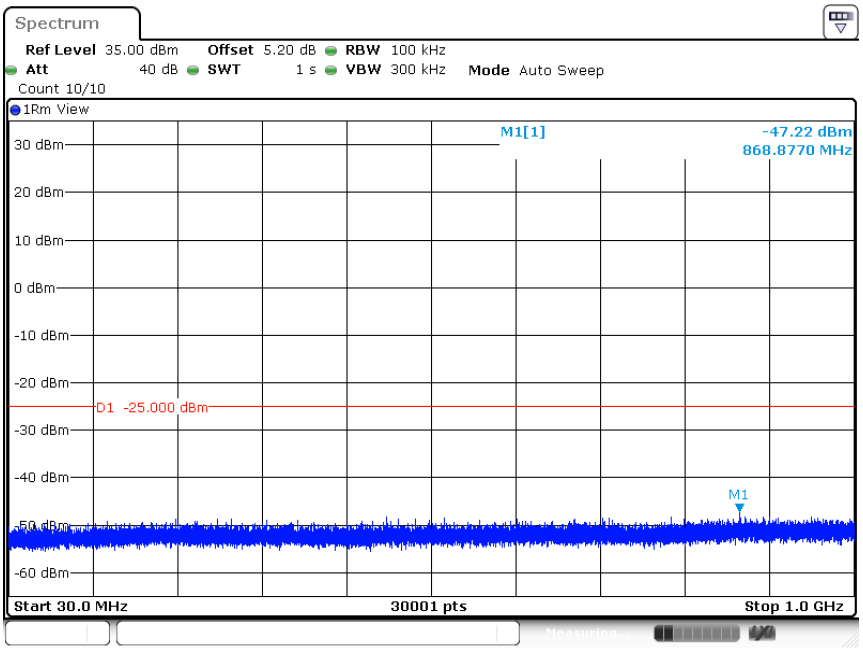

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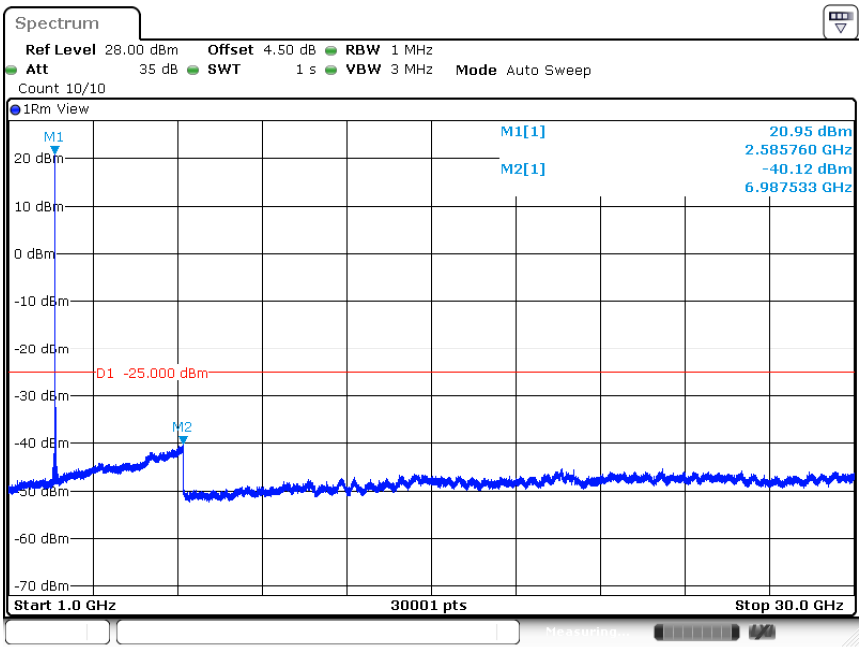

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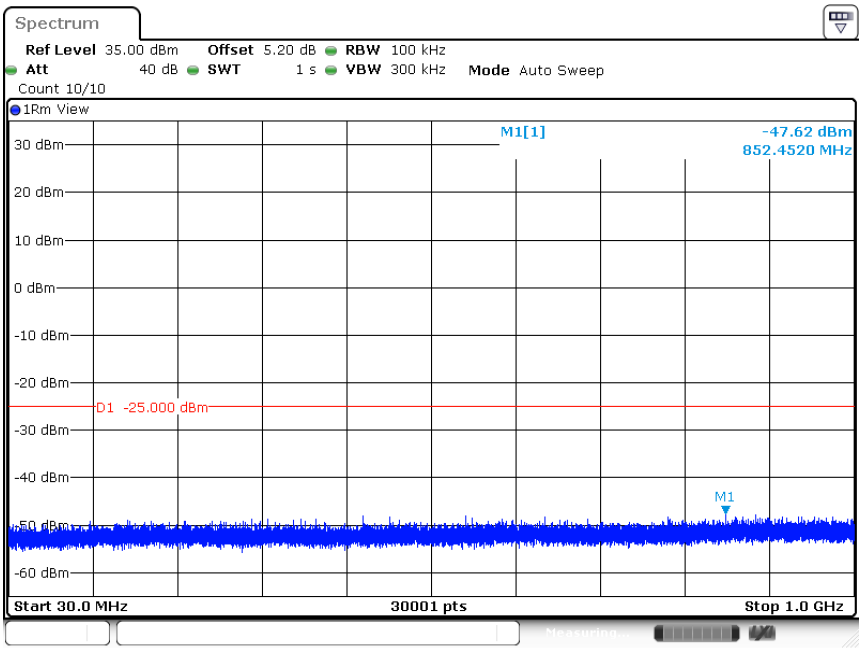

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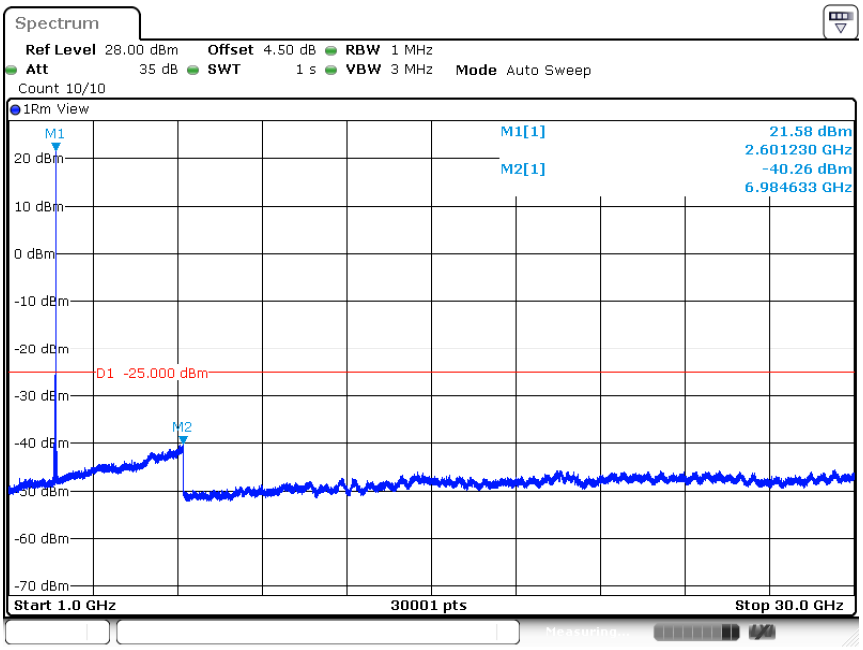

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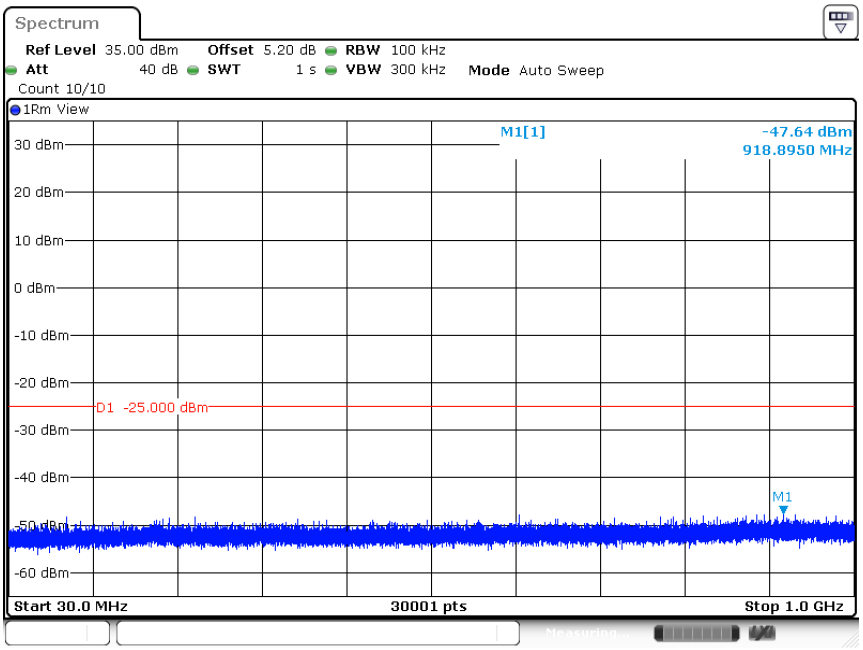

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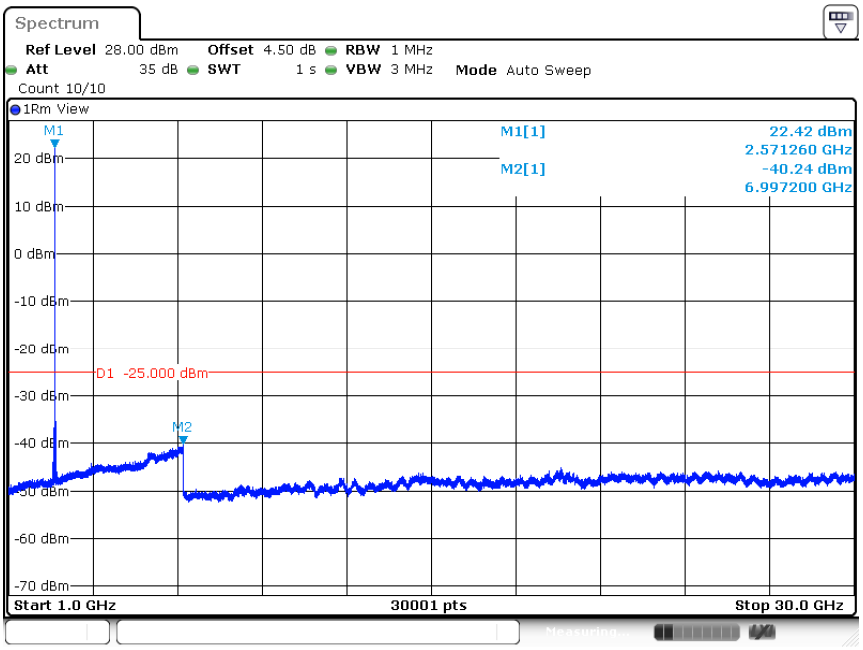
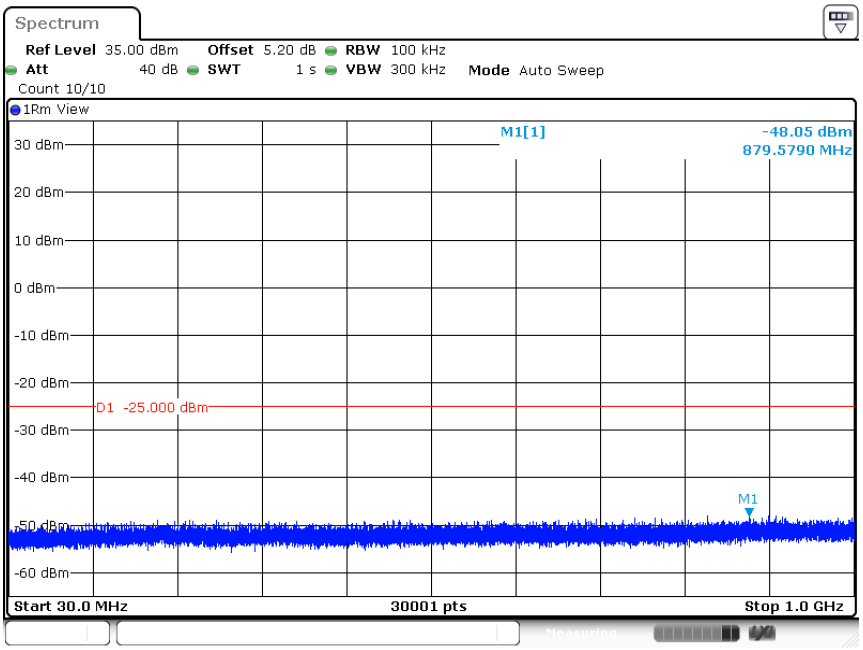
Band38-20MHz-64QAM-37850-1RB#0-Range2:1000~30000MHz



Date: 4.SEP.2020 10:06:34

Band38-20MHz-64QAM-38000-1RB#0-Range1:30~1000MHz



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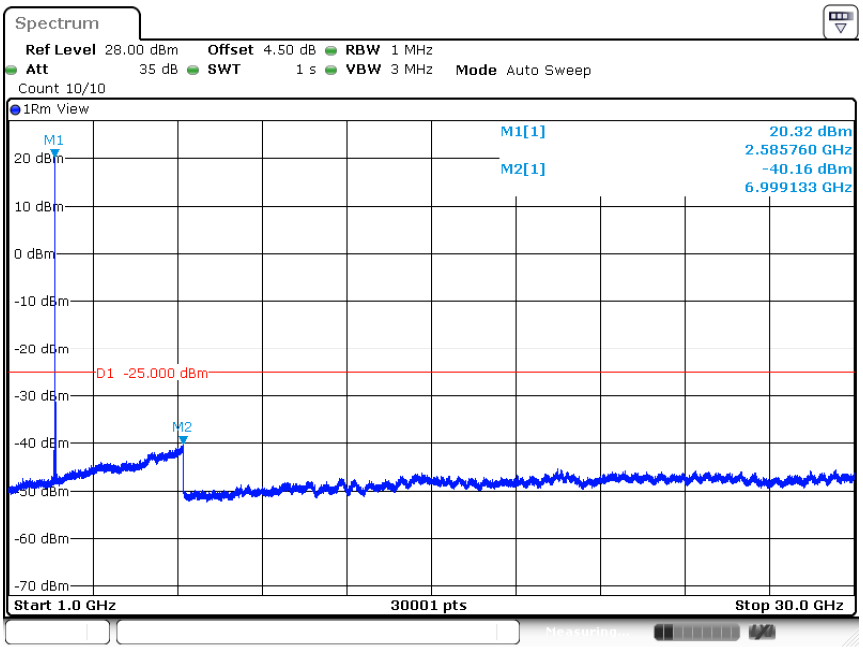

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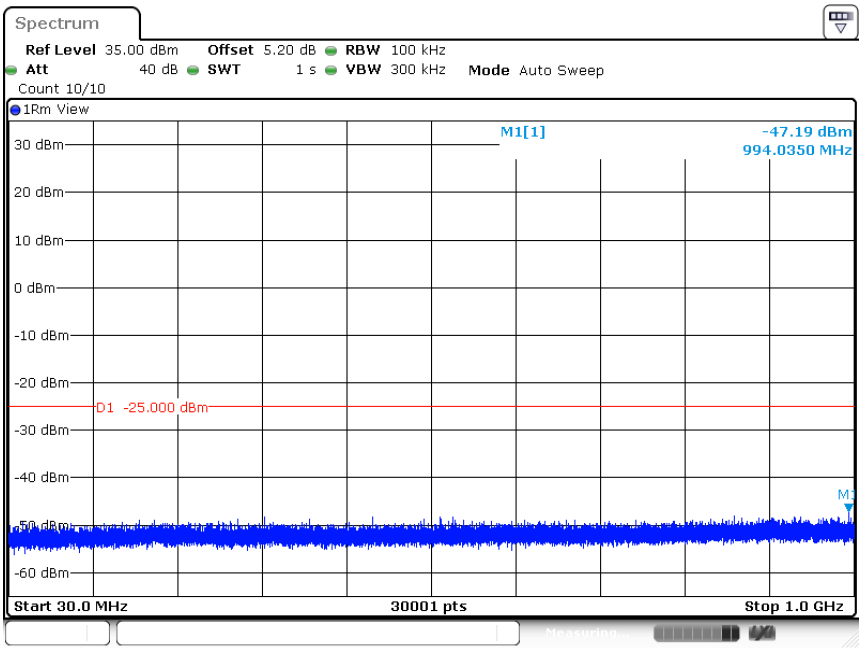
Band38-20MHz-64QAM-38150-1RB#0-Range1:30~1000MHz



Date: 4.SEP.2020 10:07:29

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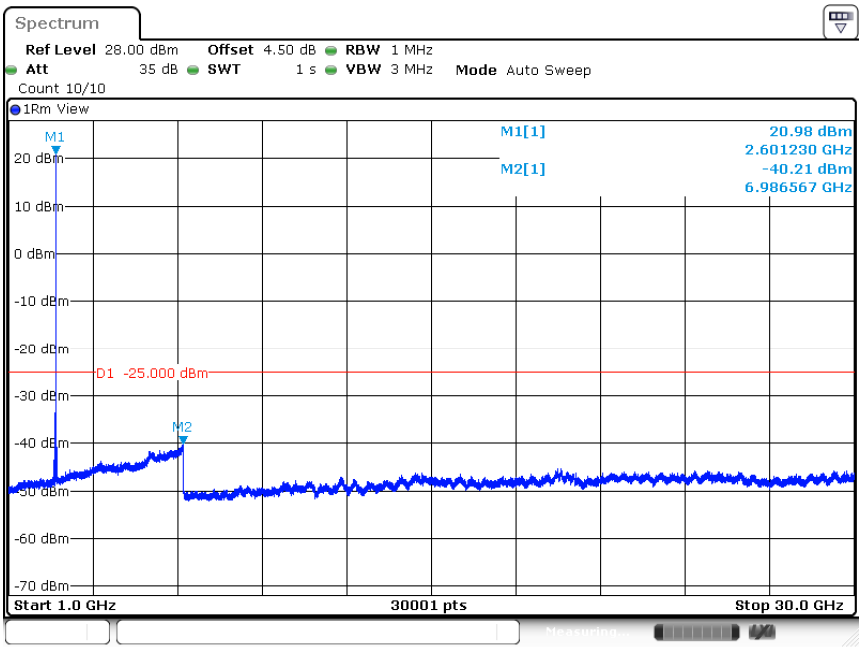

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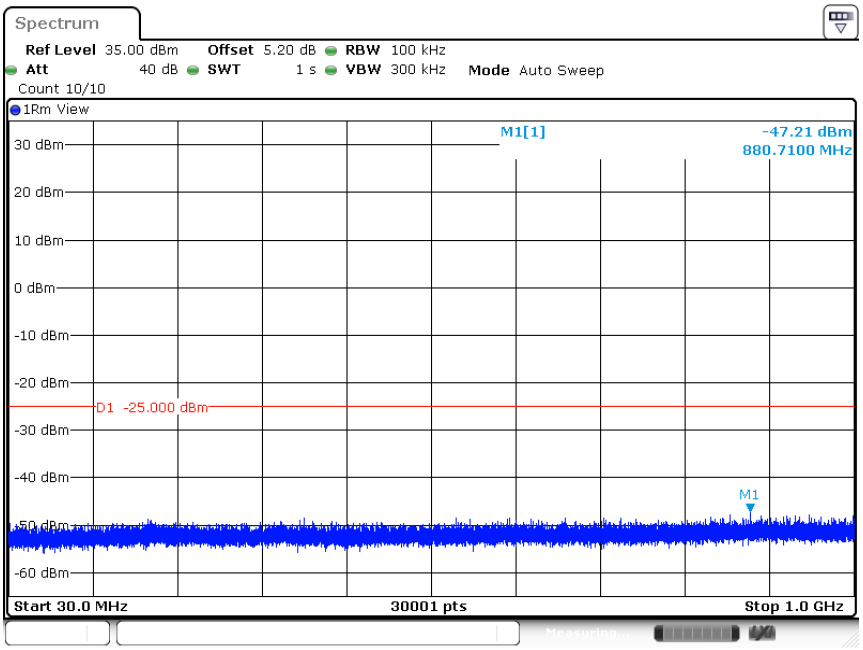

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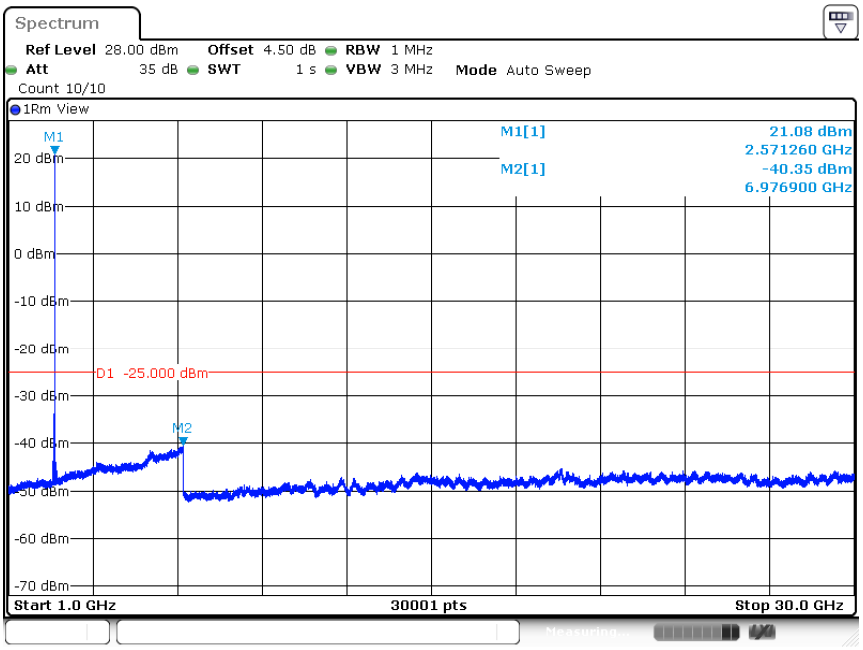

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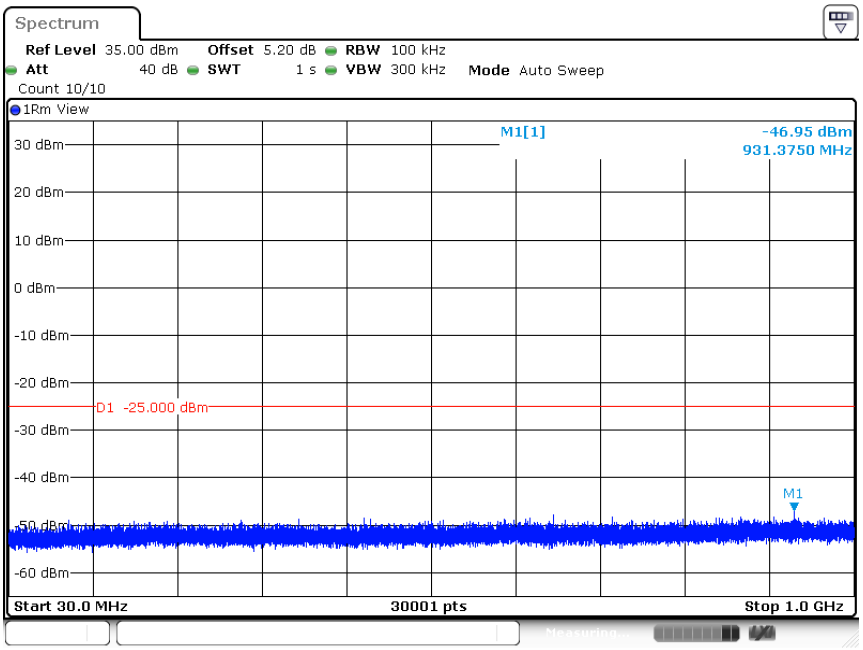
Band38-20MHz-16QAM-38000-1RB#0-Range1:30~1000MHz



Date: 4.SEP.2020 09:18:07

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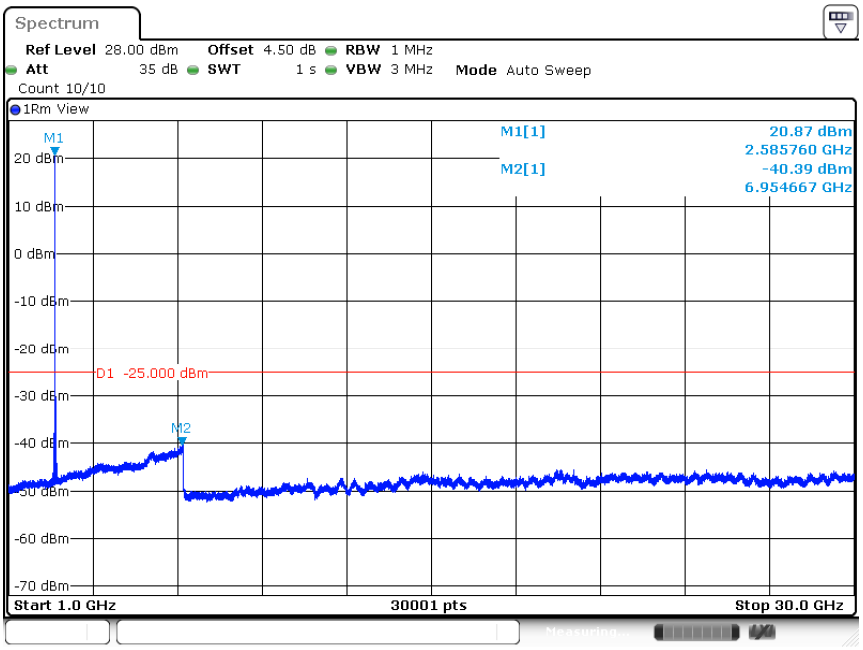

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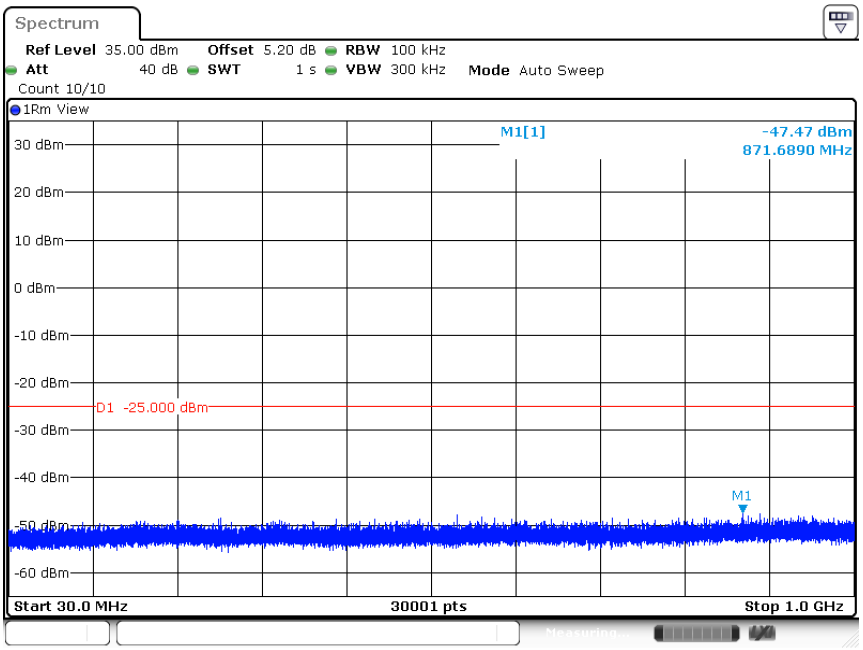
Band38-20MHz-16QAM-38150-1RB#0-Range1:30~1000MHz



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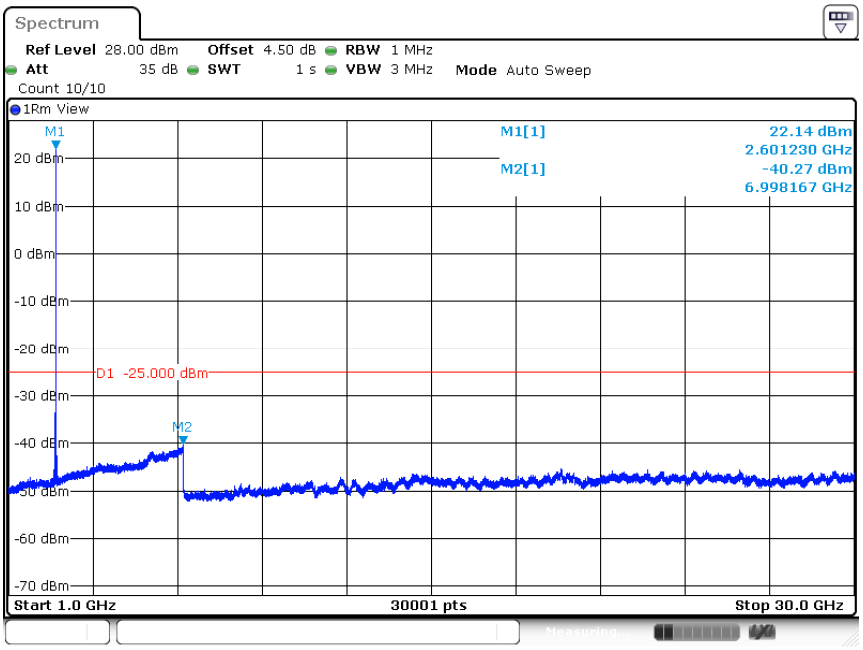

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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 20MHz

7.1.1.Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
46.3938	-72.33	-25.00	47.33	Vertical
114.0547	-64.77	-25.00	39.77	Vertical
655.3903	-63.24	-25.00	38.24	Vertical
5142.0714	-60.62	-25.00	35.62	Vertical
7713.1571	-56.15	-25.00	31.15	Vertical
17999.0000	-39.92	-25.00	14.92	Vertical
44.4537	-63.79	-25.00	38.79	Horizontal
235.6988	-67.81	-25.00	42.81	Horizontal
598.8364	-63.89	-25.00	38.89	Horizontal
5117.5706	-61.42	-25.00	36.42	Horizontal
7713.1571	-56.27	-25.00	31.27	Horizontal
16398.9466	-43.29	-25.00	18.29	Horizontal

7.1.2.Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
53.1842	-72.32	-25.00	47.32	Vertical
107.7009	-64.44	-25.00	39.44	Vertical
399.5400	-67.10	-25.00	42.10	Vertical
5172.0724	-60.50	-25.00	35.50	Vertical
8014.1671	-55.67	-25.00	30.67	Vertical
17999.5000	-39.83	-25.00	14.83	Vertical
44.9872	-64.33	-25.00	39.33	Horizontal
98.2429	-74.65	-25.00	49.65	Horizontal
229.9755	-67.56	-25.00	42.56	Horizontal
5122.5708	-61.52	-25.00	36.52	Horizontal
7758.1586	-53.62	-25.00	28.62	Horizontal
16367.4456	-43.41	-25.00	18.41	Horizontal

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7.1.3.Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
45.5693	-73.57	-25.00	48.57	Vertical
110.4655	-64.06	-25.00	39.06	Vertical
443.7742	-66.04	-25.00	41.04	Vertical
5202.0734	-61.27	-25.00	36.27	Vertical
7456.6486	-56.01	-25.00	31.01	Vertical
17994.9998	-39.41	-25.00	14.41	Vertical
45.2783	-63.82	-25.00	38.82	Horizontal
98.2914	-74.58	-25.00	49.58	Horizontal
234.3892	-68.14	-25.00	43.14	Horizontal
5060.0687	-61.71	-25.00	36.71	Horizontal
7802.6601	-54.96	-25.00	29.96	Horizontal
16390.9464	-43.09	-25.00	18.09	Horizontal

Test on the worst care:

7.1.4.Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
30.3880	-72.68	-25.00	47.68	Vertical
115.6553	-64.46	-25.00	39.46	Vertical
603.7837	-63.54	-25.00	38.54	Vertical
5172.5724	-59.54	-25.00	34.54	Vertical
7758.6586	-48.87	-25.00	23.87	Vertical
17998.5000	-40.35	-25.00	15.35	Vertical
44.3082	-64.44	-25.00	39.44	Horizontal
104.9362	-75.65	-25.00	50.65	Horizontal
235.4563	-68.59	-25.00	43.59	Horizontal
5172.0724	-58.88	-25.00	33.88	Horizontal
7758.1586	-49.34	-25.00	24.34	Horizontal
16393.9465	-44.02	-25.00	19.02	Horizontal

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	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	VL	NT	-9.10	-0.003527	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VN	NT	-11.10	-0.004302	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VH	NT	-6.20	-0.002403	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VL	NT	-9.00	-0.003468	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	-9.30	-0.003584	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	-8.30	-0.003198	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VL	NT	-5.70	-0.002184	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VN	NT	-6.50	-0.002490	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VH	NT	-5.10	-0.001954	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	VL	NT	-7.30	-0.002829	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	VN	NT	-8.20	-0.003178	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	VH	NT	-5.30	-0.002054	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	VL	NT	-10.60	-0.004085	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	VN	NT	-9.10	-0.003507	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	VH	NT	-4.90	-0.001888	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	VL	NT	-7.50	-0.002874	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	VN	NT	-7.70	-0.002950	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	VH	NT	-8.40	-0.003218	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VL	NT	-5.20	-0.002016	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VN	NT	-7.90	-0.003062	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VH	NT	-7.90	-0.003062	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VL	NT	-4.80	-0.001850	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VN	NT	-10.60	-0.004085	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VH	NT	-5.80	-0.002235	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VL	NT	-7.70	-0.002950	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VN	NT	-6.90	-0.002644	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VH	NT	-9.20	-0.003525	±2.5	PASS

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8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	NV	-30	-3.90	-0.001512	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	-20	-8.70	-0.003372	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	-10	-7.10	-0.002752	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	0	-5.30	-0.002054	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	10	-9.40	-0.003643	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	20	-8.70	-0.003372	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	30	-4.40	-0.001705	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	40	-5.40	-0.002093	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	50	-5.60	-0.002171	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-30	-9.80	-0.003776	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	-8.70	-0.003353	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-10	-8.60	-0.003314	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	-9.60	-0.003699	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	-9.90	-0.003815	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	-7.20	-0.002775	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	-5.30	-0.002042	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	-9.70	-0.003738	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	-6.00	-0.002312	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-30	-6.70	-0.002567	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-20	-8.50	-0.003257	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-10	-5.80	-0.002222	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	0	-7.30	-0.002797	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	10	-7.30	-0.002797	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	20	-8.20	-0.003142	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	30	-8.30	-0.003180	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	40	-6.40	-0.002452	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	50	-4.70	-0.001801	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	-30	-10.50	-0.004070	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	-20	-8.80	-0.003411	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	0	-8.80	-0.003411	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	10	-6.20	-0.002403	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	20	-7.30	-0.002829	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	30	-8.50	-0.003295	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	40	-7.50	-0.002907	±2.5	PASS

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Band38	20MHz	64QAM	37850	100RB#0	NV	50	-6.80	-0.002636	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	-30	-9.60	-0.003699	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	-20	-5.30	-0.002042	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	0	-8.10	-0.003121	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	10	-8.40	-0.003237	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	20	-8.20	-0.003160	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	30	-9.60	-0.003699	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	40	-9.30	-0.003584	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	50	-10.20	-0.003931	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	-30	-2.70	-0.001034	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	-20	-8.20	-0.003142	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	0	-7.60	-0.002912	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	10	-8.90	-0.003410	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	20	-7.80	-0.002989	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	30	-9.50	-0.003640	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	40	-8.80	-0.003372	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	50	-5.40	-0.002069	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-30	-7.30	-0.002829	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-20	-8.60	-0.003333	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-10	-6.40	-0.002481	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	0	-6.80	-0.002636	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	10	-9.40	-0.003643	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	20	-8.60	-0.003333	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	30	-9.00	-0.003488	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	40	-4.90	-0.001899	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	50	-8.30	-0.003217	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-30	-7.90	-0.003044	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-20	-6.80	-0.002620	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-10	-7.90	-0.003044	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	0	-6.30	-0.002428	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	10	-9.40	-0.003622	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	20	-7.60	-0.002929	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	30	-12.10	-0.004663	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	40	-8.30	-0.003198	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	50	-6.50	-0.002505	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-30	-7.80	-0.002989	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-20	-8.30	-0.003180	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-10	-9.20	-0.003525	±2.5	PASS

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Band38	20MHz	16QAM	38150	100RB#0	NV	0	-6.20	-0.002375	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	10	-6.90	-0.002644	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	20	-6.00	-0.002299	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	30	-7.50	-0.002874	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	40	-8.50	-0.003257	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	50	-9.60	-0.003678	±2.5	PASS

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