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) 7

2.1. TEST RESULT 7

2.2. TEST PLOTS 7

3. MODULATION CHARACTERISTICS 11

3.1. TEST MODE = LTE /TM1 20MHZ 11

3.1.1. TEST CHANNEL = MCH 11

3.2. TEST MODE = LTE /TM2 20MHZ 12

3.2.1. TEST CHANNEL = MCH 12

4. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH 13

4.1. TEST RESULT 13

4.2. TEST PLOTS 14

5. BAND EDGE COMPLIANCE 26

5.1. TEST PLOTS 26

6. SPURIOUS EMISSION AT ANTENNA TERMINAL 42

6.1. TEST PLOTS 42

7. FIELD STRENGTH OF SPURIOUS RADIATION 48

7.1. TEST MODE =LTE/TM1 48

7.1.1. TEST CHANNEL = LCH 48

7.1.2. TEST CHANNEL = MCH 48

7.1.3. TEST CHANNEL = HCH 49

8. FREQUENCY STABILITY 50

8.1. FREQUENCY VS VOLTAGE 50

8.2. FREQUENCY VS TEMPERATURE 50

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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	22.62	23.74	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#12	22.63	23.75	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#24	22.58	23.70	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#0	21.77	22.89	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#6	21.77	22.89	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#13	21.67	22.79	33.00	PASS
Band38	5MHz	QPSK	37775	25RB#0	21.77	22.89	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#0	22.35	23.47	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#24	22.48	23.60	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#12	22.32	23.44	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#0	21.50	22.62	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#6	21.49	22.61	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#13	21.49	22.61	33.00	PASS
Band38	5MHz	QPSK	38000	25RB#0	21.43	22.55	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#24	22.24	23.36	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#0	22.43	23.55	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#12	22.33	23.45	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#0	21.49	22.61	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#6	21.46	22.58	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#13	21.45	22.57	33.00	PASS
Band38	5MHz	QPSK	38225	25RB#0	21.43	22.55	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#0	21.88	23.00	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#12	21.88	23.00	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#24	21.75	22.87	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#6	20.80	21.92	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#0	20.77	21.89	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#13	20.66	21.78	33.00	PASS
Band38	5MHz	16QAM	37775	25RB#0	20.80	21.92	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#0	21.50	22.62	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#12	21.59	22.71	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#24	21.42	22.54	33.00	PASS
Band38	5MHz	16QAM	38000	12RB#13	20.40	21.52	33.00	PASS
Band38	5MHz	16QAM	38000	12RB#0	20.52	21.64	33.00	PASS
Band38	5MHz	16QAM	38000	12RB#6	20.26	21.38	33.00	PASS
Band38	5MHz	16QAM	38000	25RB#0	20.47	21.59	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#12	21.39	22.51	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#0	21.38	22.50	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#24	21.42	22.54	33.00	PASS

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Band38	5MHz	16QAM	38225	12RB#0	20.35	21.47	33.00	PASS
Band38	5MHz	16QAM	38225	12RB#6	20.33	21.45	33.00	PASS
Band38	5MHz	16QAM	38225	12RB#13	20.39	21.51	33.00	PASS
Band38	5MHz	16QAM	38225	25RB#0	20.41	21.53	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#24	22.83	23.95	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#49	22.64	23.76	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#0	22.58	23.70	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#0	21.78	22.90	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#12	21.77	22.89	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#25	21.74	22.86	33.00	PASS
Band38	10MHz	QPSK	37800	50RB#0	21.82	22.94	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#0	22.50	23.62	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#49	22.45	23.57	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#24	22.43	23.55	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#25	21.54	22.66	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#0	21.55	22.67	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#12	21.48	22.60	33.00	PASS
Band38	10MHz	QPSK	38000	50RB#0	21.45	22.57	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#24	22.44	23.56	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#0	22.31	23.43	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#49	22.40	23.52	33.00	PASS
Band38	10MHz	QPSK	38200	25RB#0	21.49	22.61	33.00	PASS
Band38	10MHz	QPSK	38200	25RB#25	21.40	22.52	33.00	PASS
Band38	10MHz	QPSK	38200	25RB#12	21.40	22.52	33.00	PASS
Band38	10MHz	QPSK	38200	50RB#0	21.33	22.45	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#49	21.93	23.05	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#0	21.80	22.92	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#24	21.70	22.82	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#25	20.93	22.05	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#12	20.78	21.90	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#0	20.81	21.93	33.00	PASS
Band38	10MHz	16QAM	37800	50RB#0	20.92	22.04	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#49	21.64	22.76	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#0	21.57	22.69	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#24	21.48	22.60	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#25	20.63	21.75	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#0	20.50	21.62	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#12	20.56	21.68	33.00	PASS
Band38	10MHz	16QAM	38000	50RB#0	20.56	21.68	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#24	21.48	22.60	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#0	21.39	22.51	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#49	21.47	22.59	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#0	20.51	21.63	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#12	20.42	21.54	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#25	20.43	21.55	33.00	PASS
Band38	10MHz	16QAM	38200	50RB#0	20.48	21.60	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#0	22.72	23.84	33.00	PASS

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Band38	15MHz	QPSK	37825	1RB#38	22.55	23.67	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#74	22.40	23.52	33.00	PASS
Band38	15MHz	QPSK	37825	36RB#0	21.76	22.88	33.00	PASS
Band38	15MHz	QPSK	37825	36RB#18	21.65	22.77	33.00	PASS
Band38	15MHz	QPSK	37825	36RB#39	21.65	22.77	33.00	PASS
Band38	15MHz	QPSK	37825	75RB#0	21.76	22.88	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#0	22.45	23.57	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#74	22.46	23.58	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#38	22.27	23.39	33.00	PASS
Band38	15MHz	QPSK	38000	36RB#0	21.52	22.64	33.00	PASS
Band38	15MHz	QPSK	38000	36RB#18	21.55	22.67	33.00	PASS
Band38	15MHz	QPSK	38000	36RB#39	21.52	22.64	33.00	PASS
Band38	15MHz	QPSK	38000	75RB#0	21.47	22.59	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#74	22.36	23.48	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#0	22.36	23.48	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#38	22.29	23.41	33.00	PASS
Band38	15MHz	QPSK	38175	36RB#0	21.36	22.48	33.00	PASS
Band38	15MHz	QPSK	38175	36RB#18	21.55	22.67	33.00	PASS
Band38	15MHz	QPSK	38175	36RB#39	21.24	22.36	33.00	PASS
Band38	15MHz	QPSK	38175	75RB#0	21.12	22.24	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#0	21.89	23.01	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#38	21.77	22.89	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#74	21.57	22.69	33.00	PASS
Band38	15MHz	16QAM	37825	36RB#18	20.69	21.81	33.00	PASS
Band38	15MHz	16QAM	37825	36RB#0	20.62	21.74	33.00	PASS
Band38	15MHz	16QAM	37825	36RB#39	20.58	21.70	33.00	PASS
Band38	15MHz	16QAM	37825	75RB#0	20.79	21.91	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#0	21.59	22.71	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#38	21.55	22.67	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#74	21.34	22.46	33.00	PASS
Band38	15MHz	16QAM	38000	36RB#39	20.49	21.61	33.00	PASS
Band38	15MHz	16QAM	38000	36RB#0	20.49	21.61	33.00	PASS
Band38	15MHz	16QAM	38000	36RB#18	20.26	21.38	33.00	PASS
Band38	15MHz	16QAM	38000	75RB#0	20.45	21.57	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#38	21.43	22.55	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#0	21.39	22.51	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#74	21.34	22.46	33.00	PASS
Band38	15MHz	16QAM	38175	36RB#0	20.37	21.49	33.00	PASS
Band38	15MHz	16QAM	38175	36RB#18	20.31	21.43	33.00	PASS
Band38	15MHz	16QAM	38175	36RB#39	19.99	21.11	33.00	PASS
Band38	15MHz	16QAM	38175	75RB#0	20.14	21.26	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#99	22.48	23.60	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#49	22.72	23.84	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#0	22.22	23.34	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#0	21.79	22.91	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#25	21.67	22.79	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#50	21.63	22.75	33.00	PASS

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Band38	20MHz	QPSK	37850	100RB#0	21.71	22.83	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#0	22.30	23.42	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#99	22.55	23.67	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#49	22.06	23.18	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#50	21.54	22.66	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#0	21.48	22.60	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#25	21.45	22.57	33.00	PASS
Band38	20MHz	QPSK	38000	100RB#0	21.57	22.69	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#49	22.19	23.31	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#0	22.47	23.59	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#99	22.10	23.22	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#0	21.45	22.57	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#50	21.29	22.41	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#25	21.20	22.32	33.00	PASS
Band38	20MHz	QPSK	38150	100RB#0	21.43	22.55	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#99	21.67	22.79	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#0	21.81	22.93	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#49	21.38	22.50	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#50	20.88	22.00	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#25	20.76	21.88	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#0	20.74	21.86	33.00	PASS
Band38	20MHz	16QAM	37850	100RB#0	20.77	21.89	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#99	21.52	22.64	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#0	21.58	22.70	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#49	21.19	22.31	33.00	PASS
Band38	20MHz	16QAM	38000	50RB#50	20.60	21.72	33.00	PASS
Band38	20MHz	16QAM	38000	50RB#0	20.51	21.63	33.00	PASS
Band38	20MHz	16QAM	38000	50RB#25	20.48	21.60	33.00	PASS
Band38	20MHz	16QAM	38000	100RB#0	20.53	21.65	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#49	21.34	22.46	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#0	21.56	22.68	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#99	21.18	22.30	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#0	20.46	21.58	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#25	20.39	21.51	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#50	20.35	21.47	33.00	PASS
Band38	20MHz	16QAM	38150	100RB#0	20.42	21.54	33.00	PASS

Remark:

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

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

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

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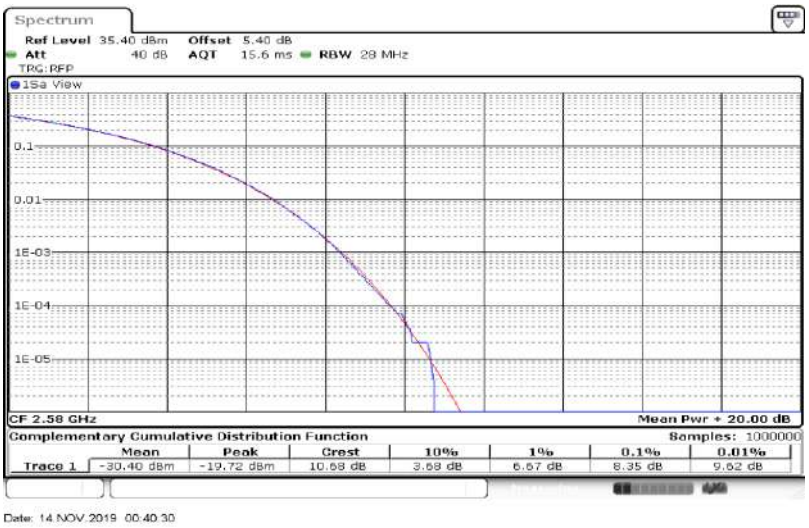
2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	8.35	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	8.64	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	8.52	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	9.45	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	9.30	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	9.19	13	PASS

2.2. Test Plots

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



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

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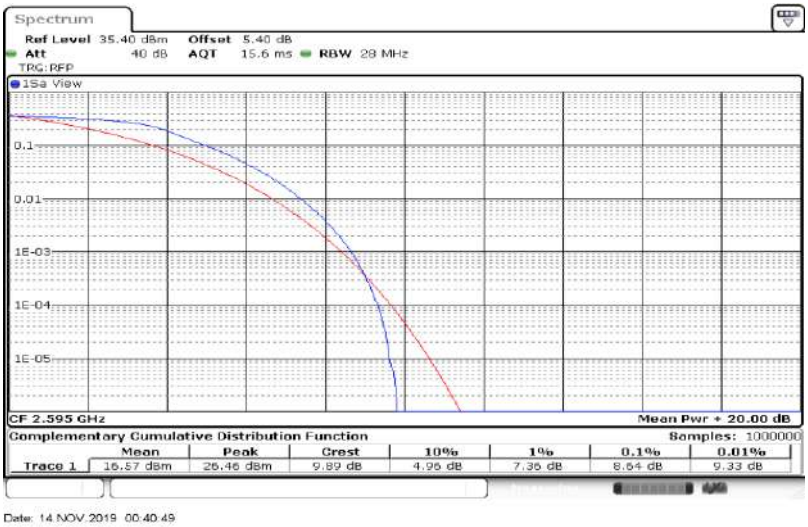
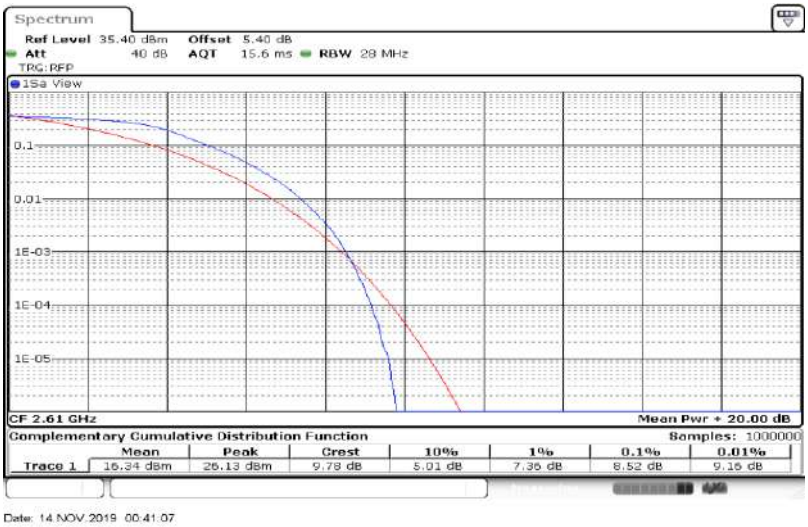


Band38-20MHz-QPSK-38150-100RB#0



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

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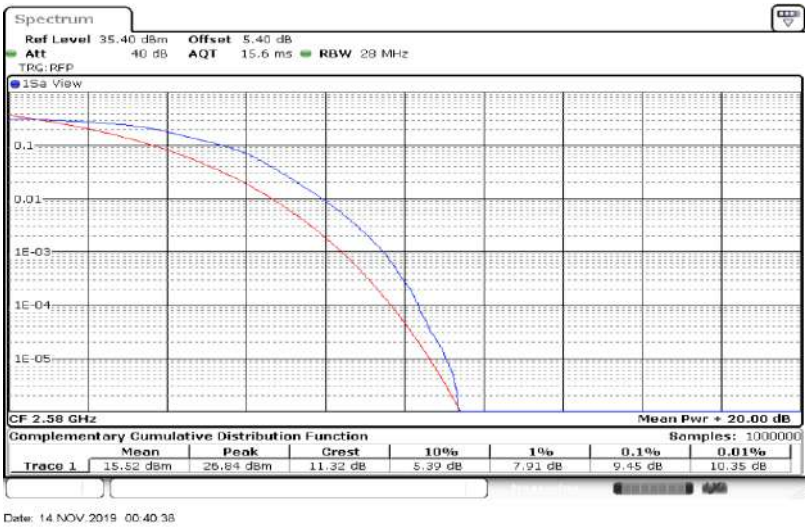
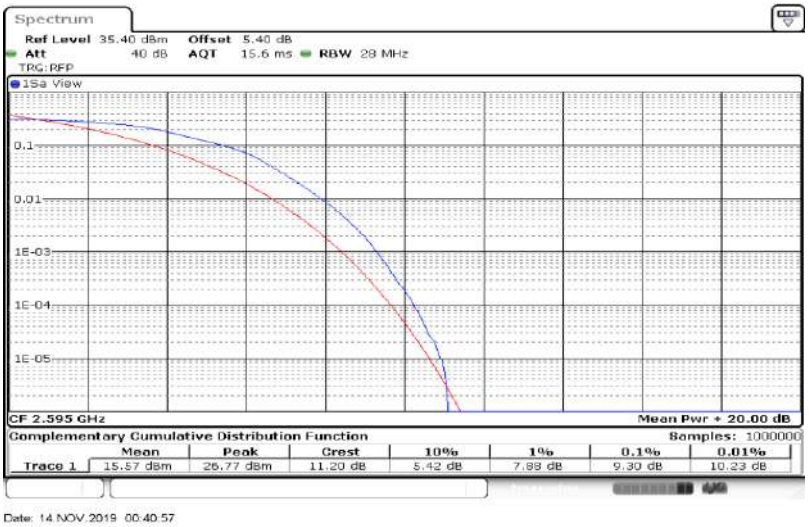


Band38-20MHz-16QAM-38000-100RB#0



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

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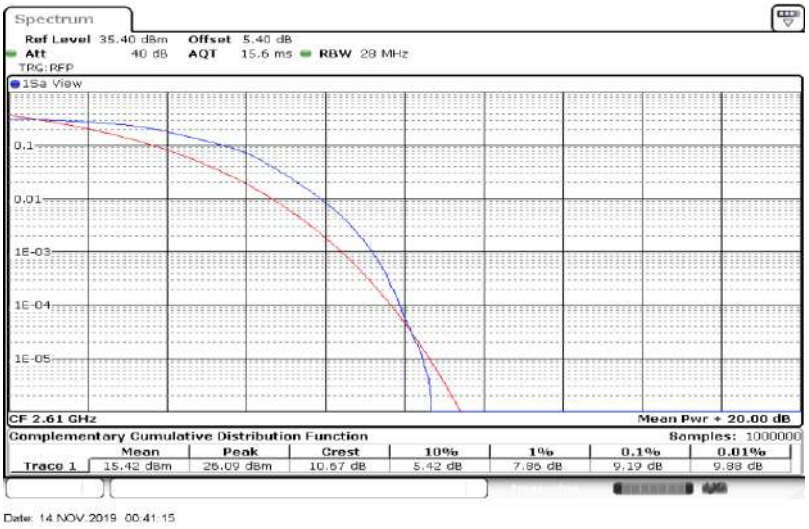

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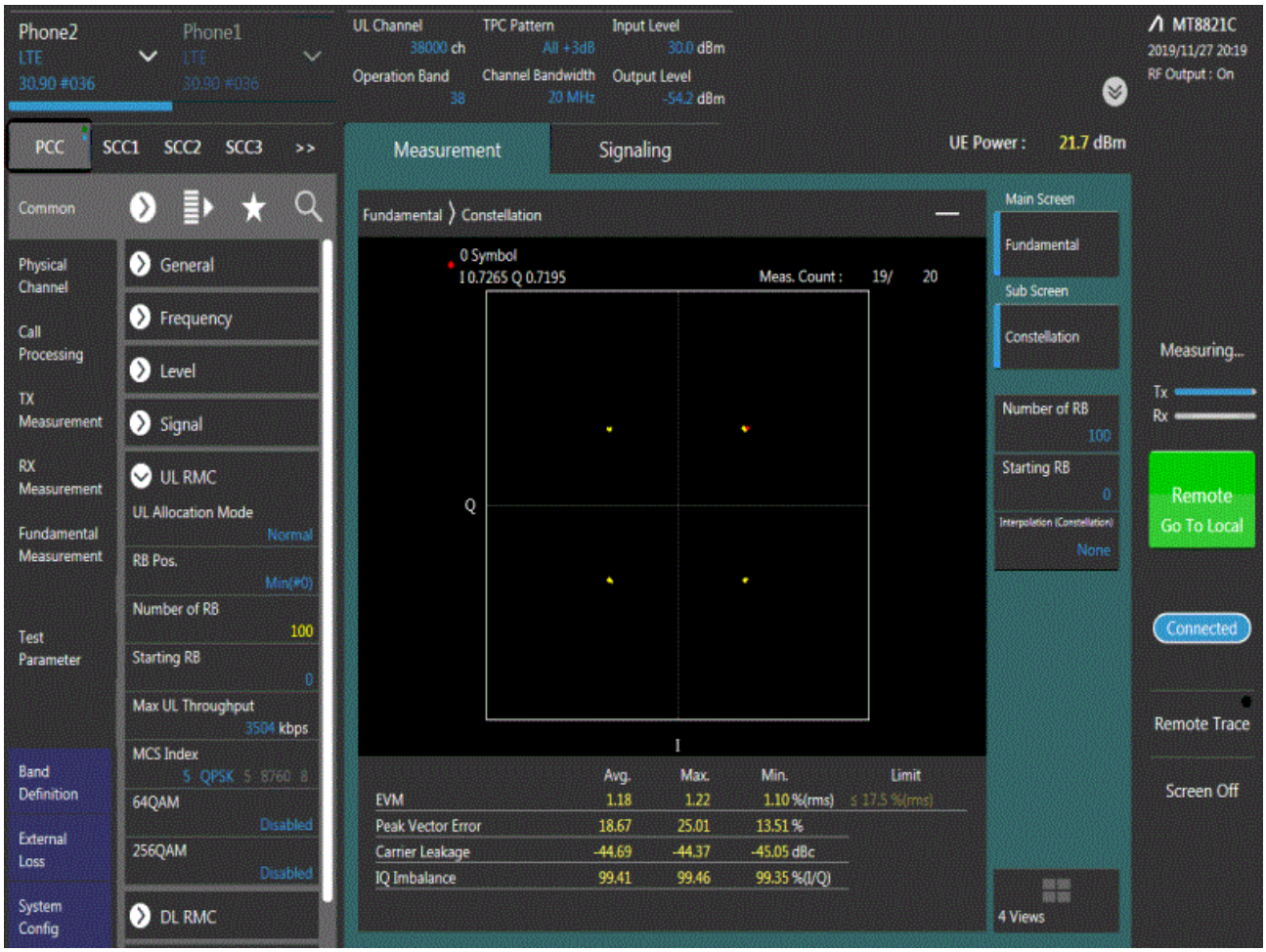
3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

3.1.1. Test Channel = MCH



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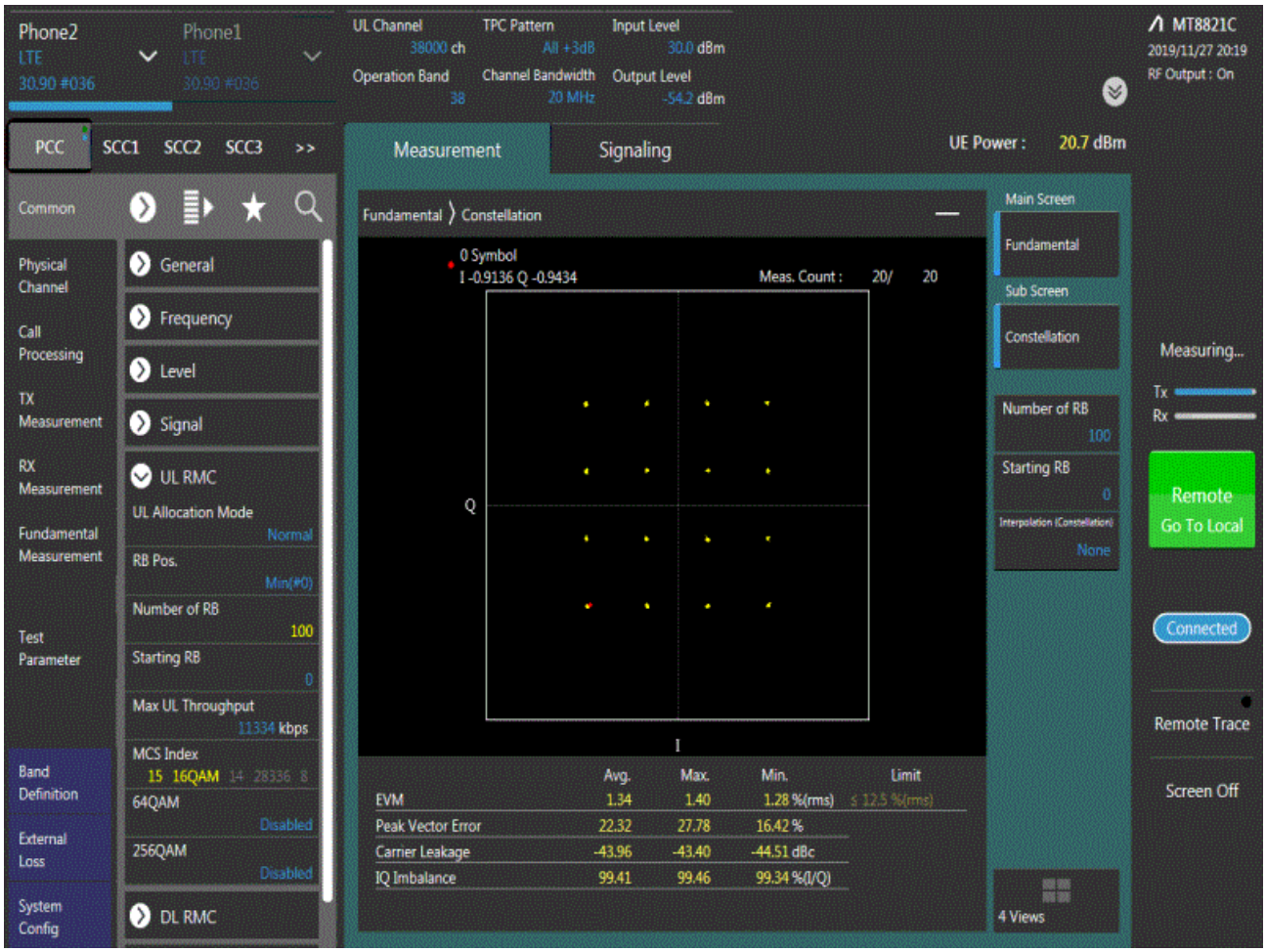
3.2. Test Mode = LTE /TM2 20MHz

3.2.1.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	4.466	4.880	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.476	4.820	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.456	4.850	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.466	4.830	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.466	4.940	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.456	4.840	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.951	9.660	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.931	10.020	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.931	10.040	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.931	10.680	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.951	9.700	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.931	10.480	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.457	15.540	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.457	15.270	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.487	15.660	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.516	16.170	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.516	15.960	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.457	15.210	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.862	19.960	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.862	20.440	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.862	19.840	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.862	19.440	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.902	19.680	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.862	19.920	PASS

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4.2. Test Plots

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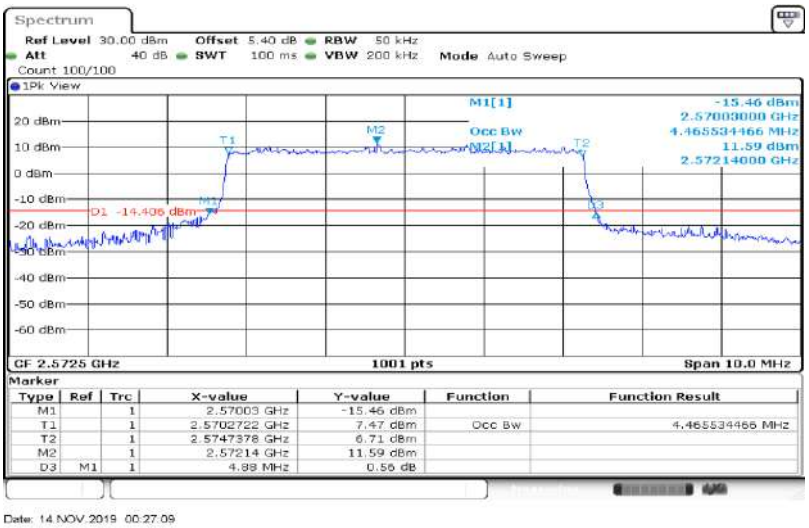

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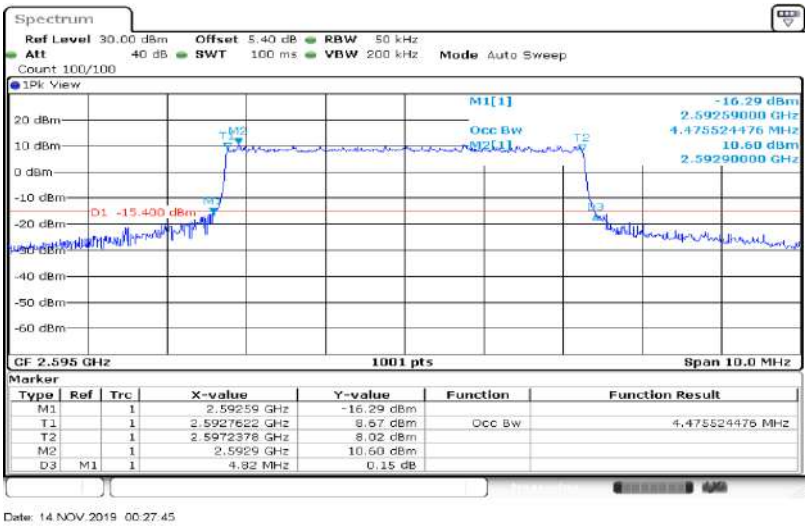

Band38-5MHz-QPSK-38225-25RB#0-4.456

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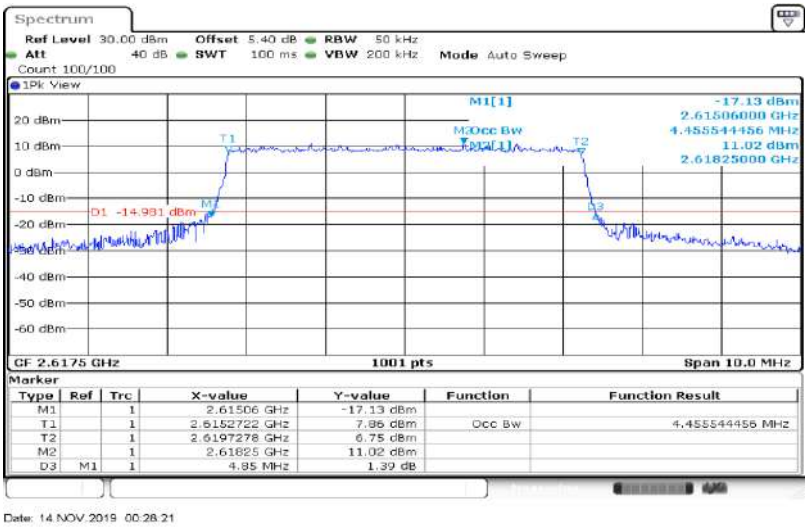

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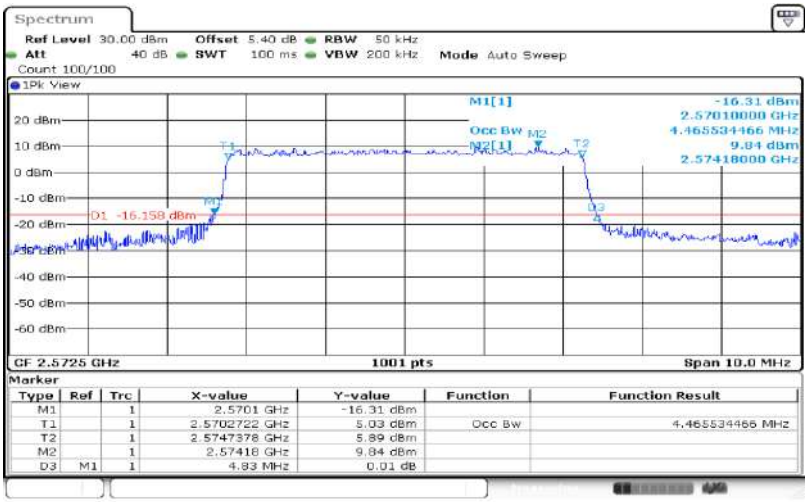
Band38-5MHz-16QAM-37775-25RB#0-4.466



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Band38-5MHz-16QAM-38000-25RB#0-4.466

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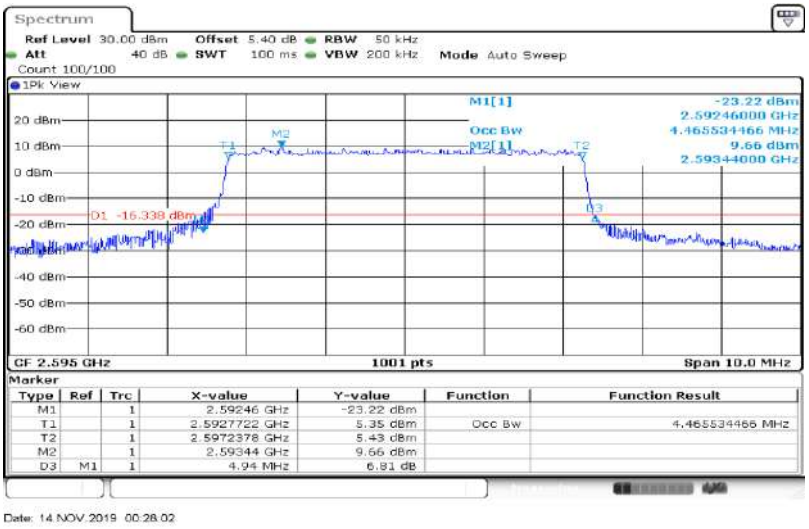

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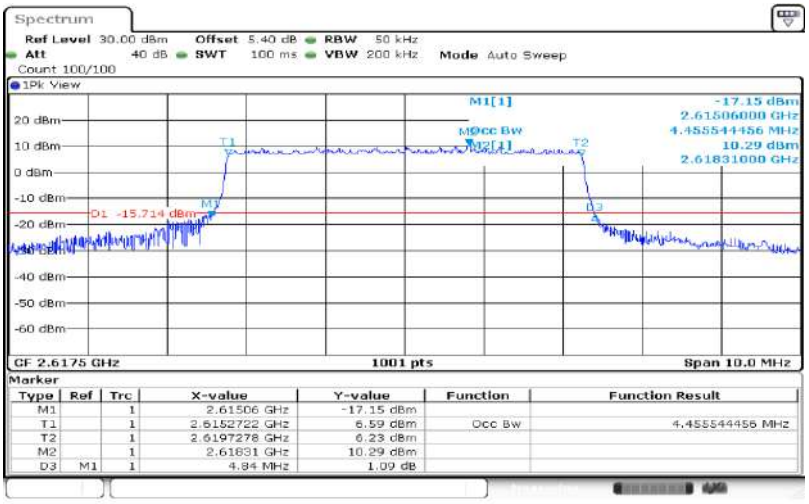
Band38-5MHz-16QAM-38225-25RB#0-4.456



Date: 14 NOV 2019 00:28:37

Band38-10MHz-QPSK-37800-50RB#0-8.951

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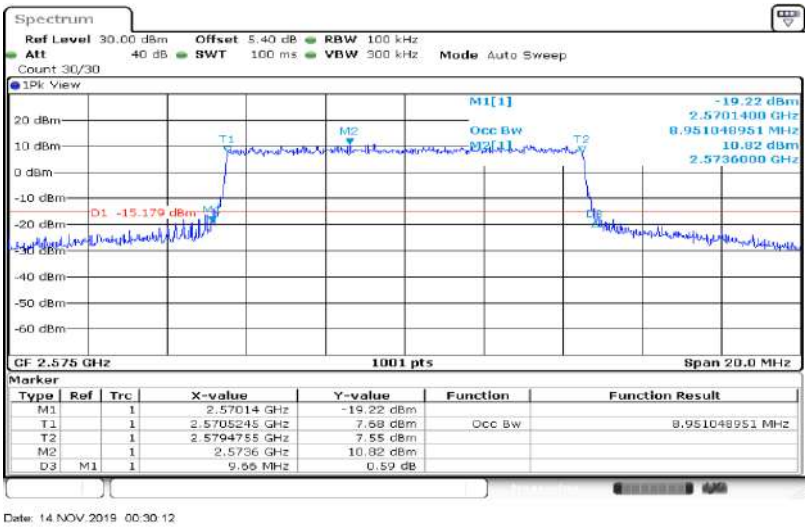
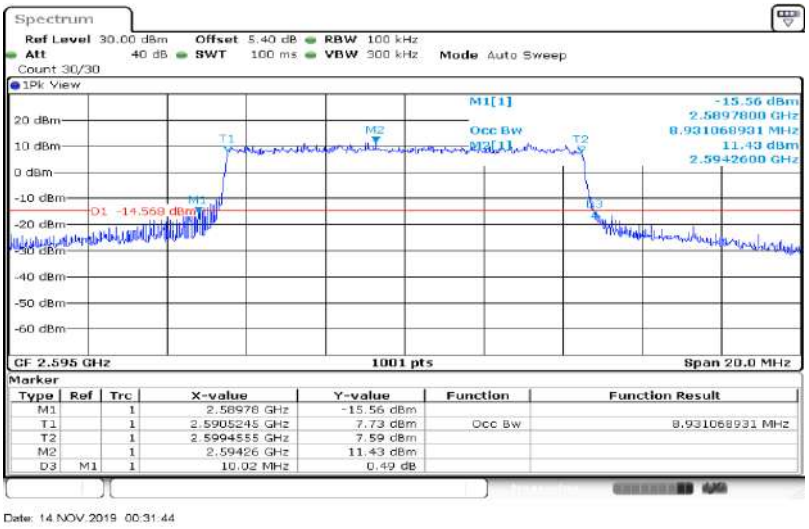


Band38-10MHz-QPSK-38000-50RB#0-8.931



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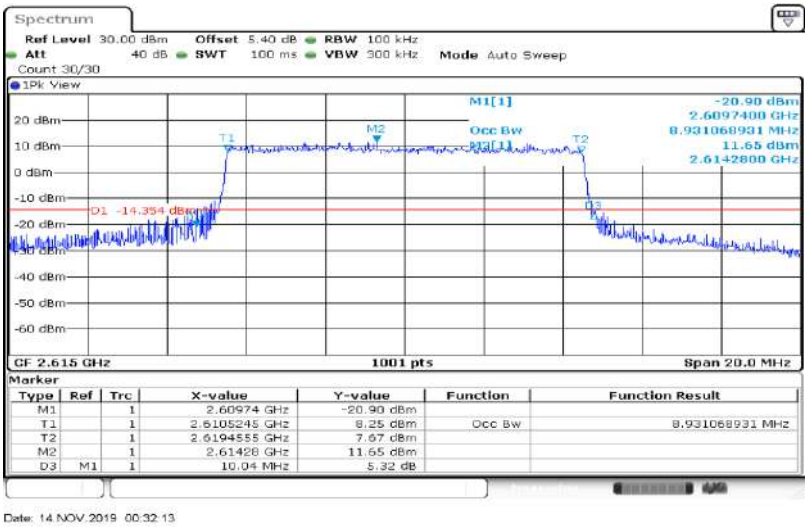

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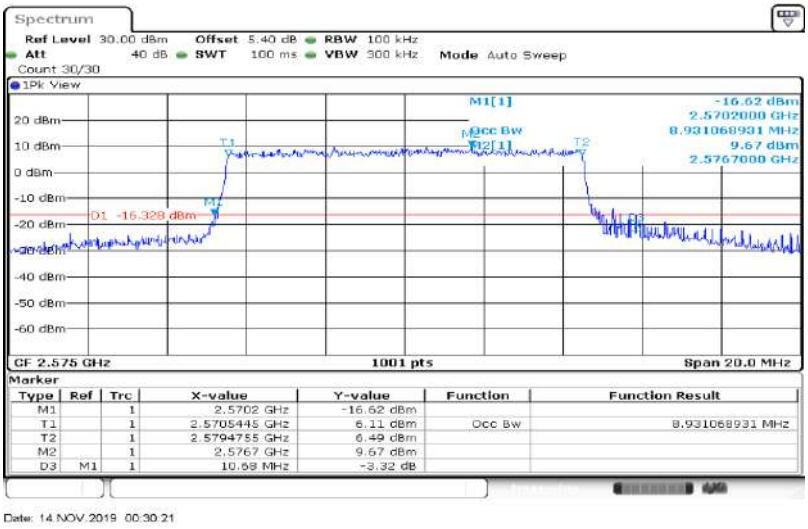

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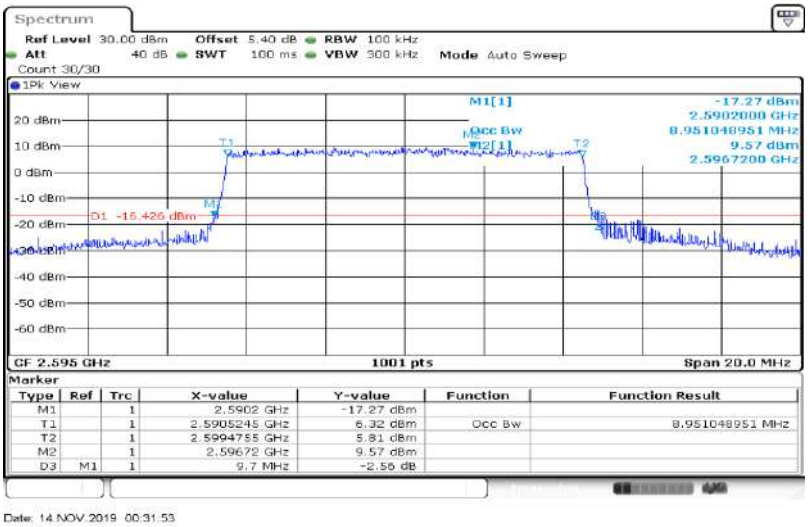

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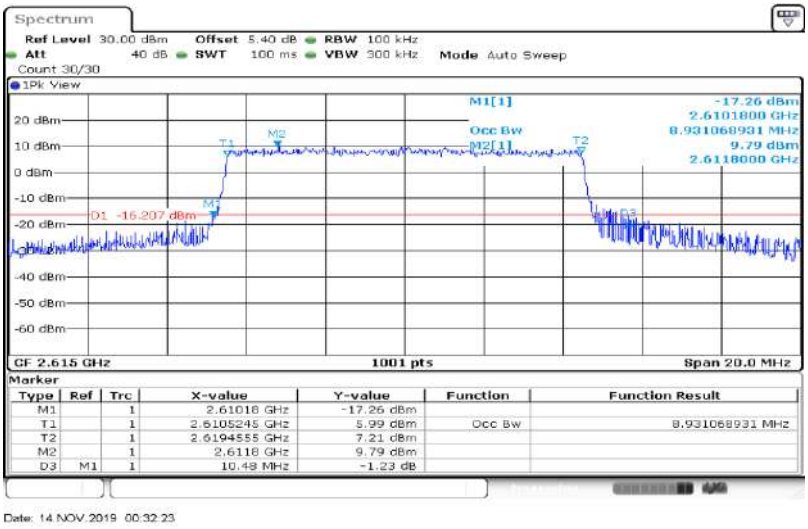

Band38-15MHz-QPSK-37825-75RB#0-13.457

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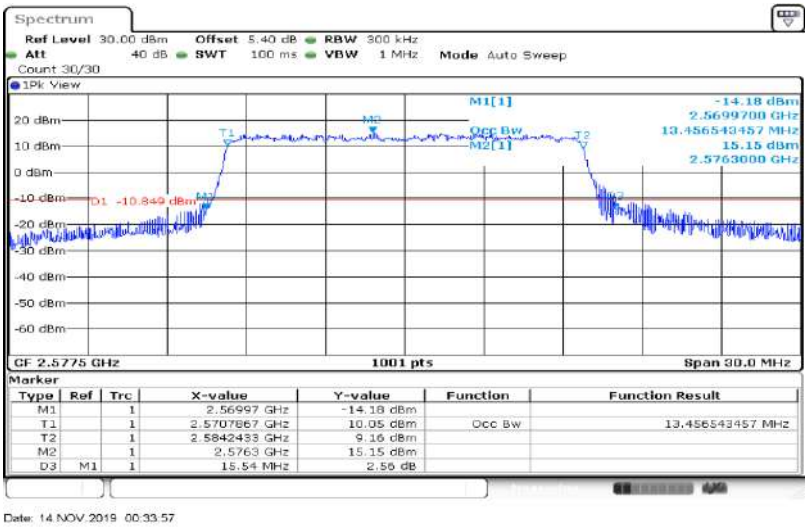

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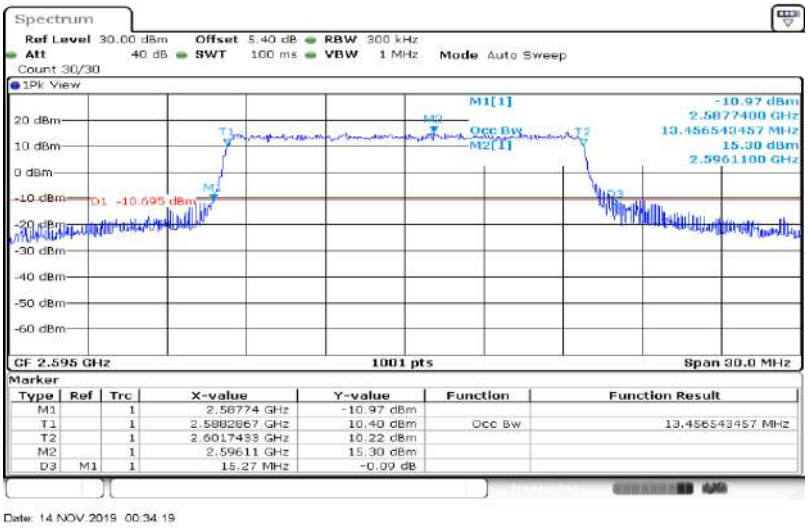

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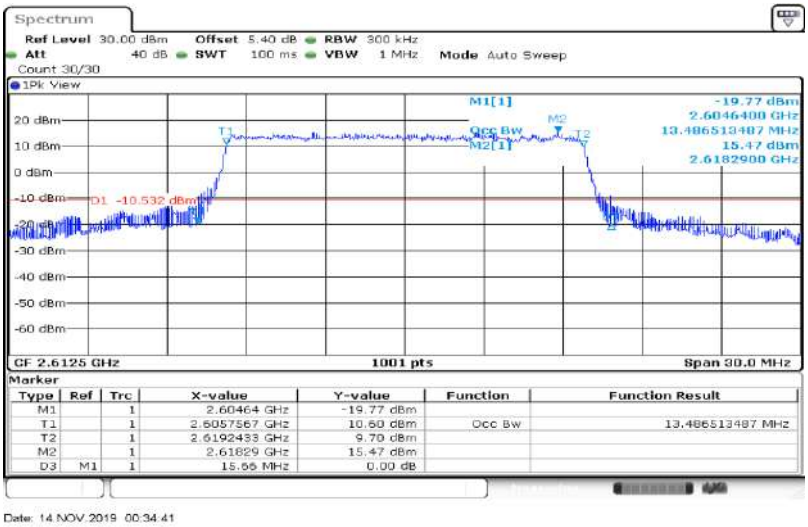

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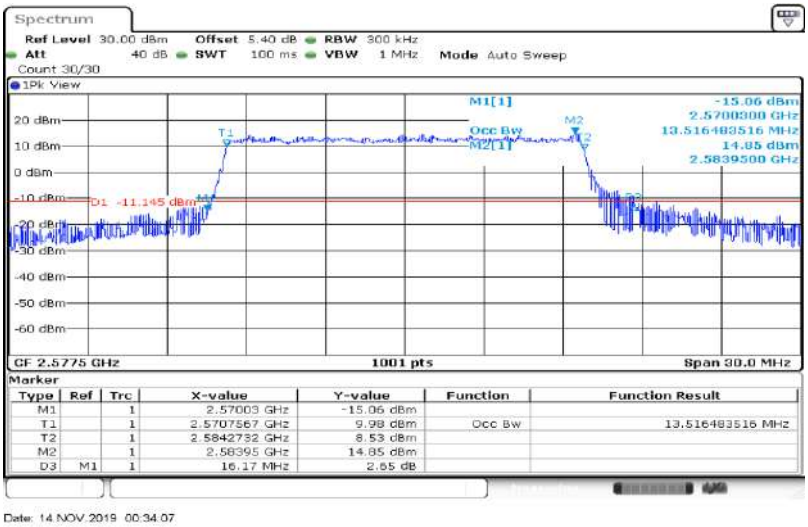

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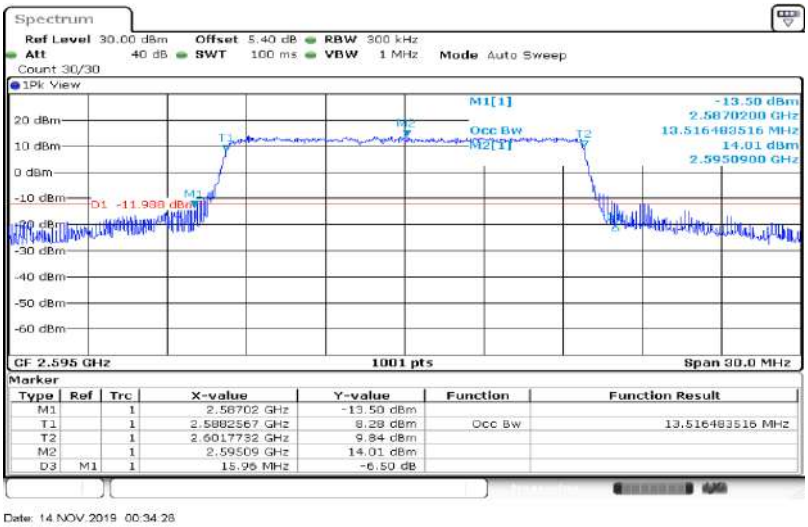

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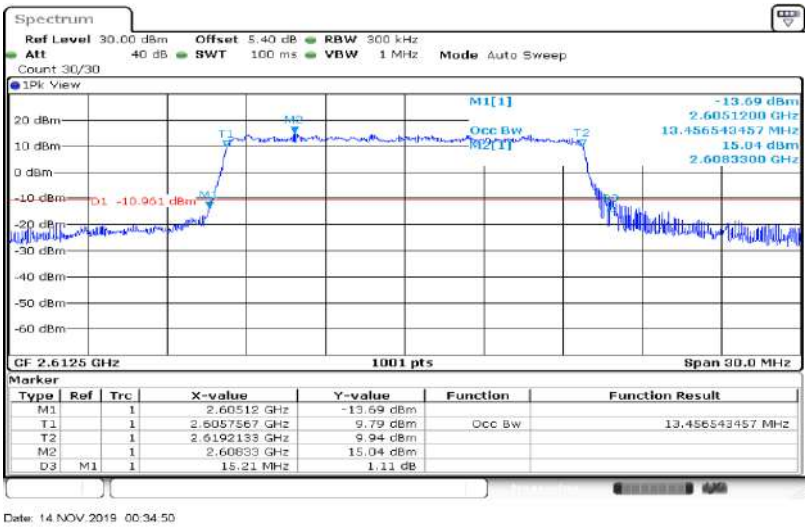

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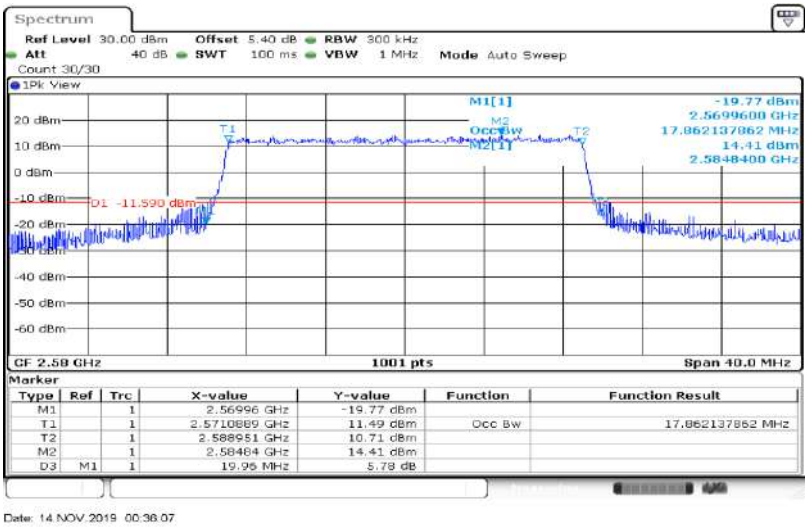

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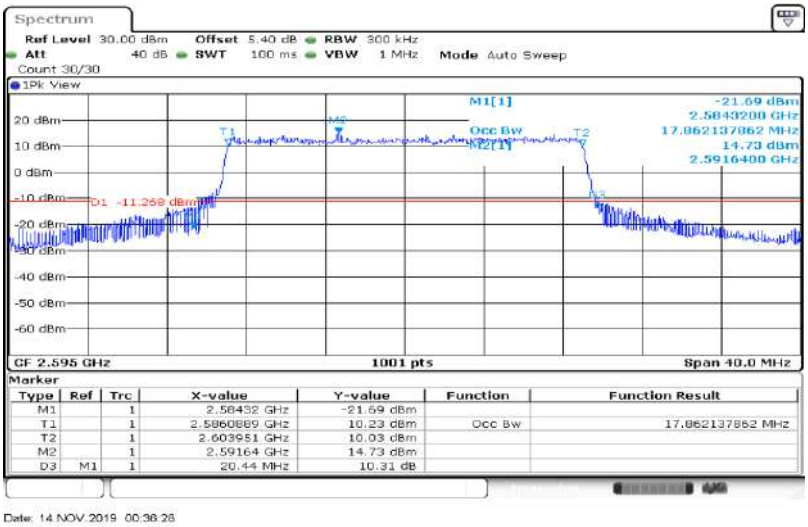

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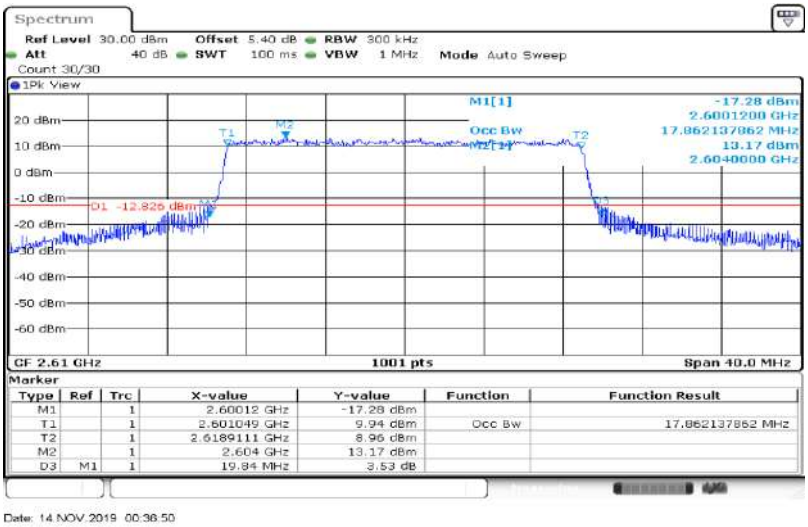

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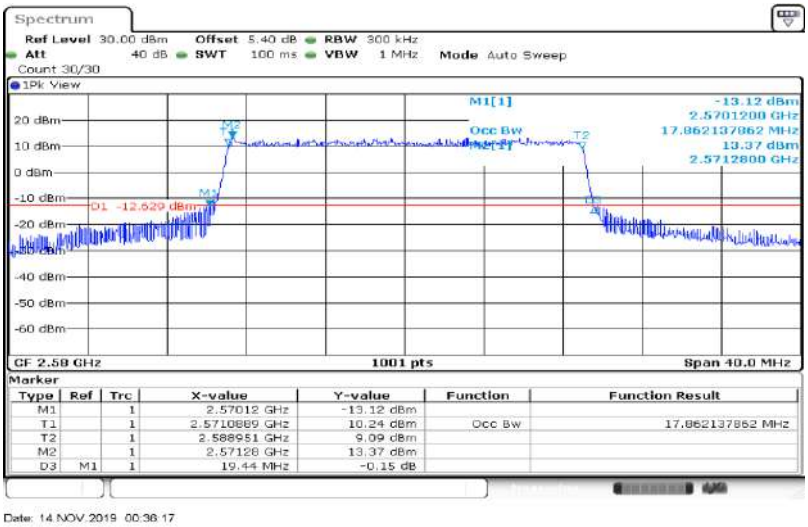

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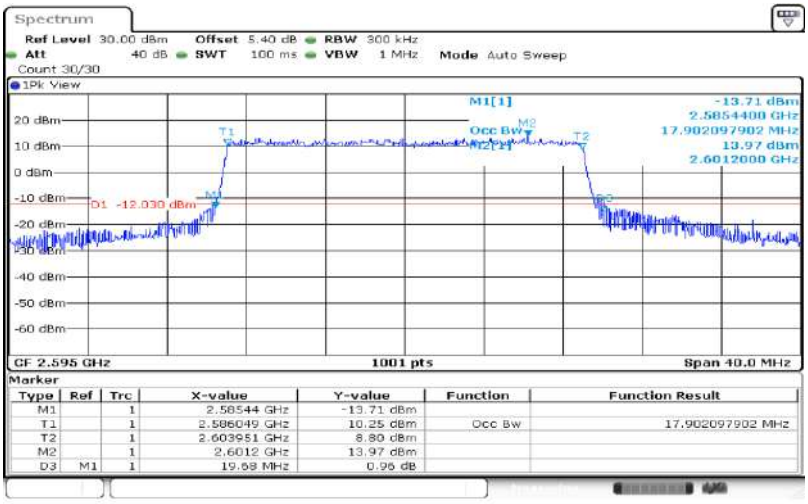

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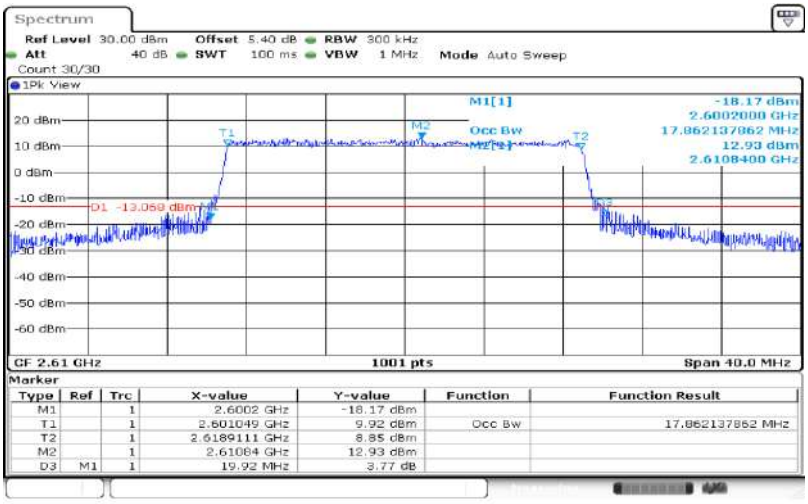

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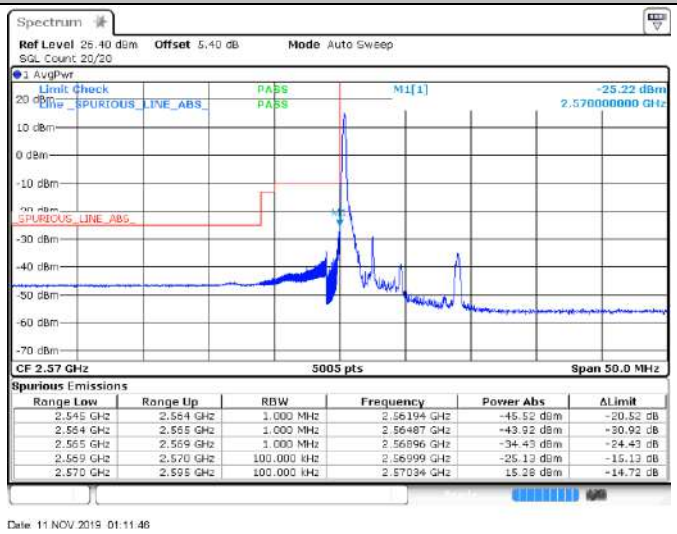
5. Band Edge Compliance

5.1. Test Plots

Band38_5MHz_QPSK_37775_1RB#0



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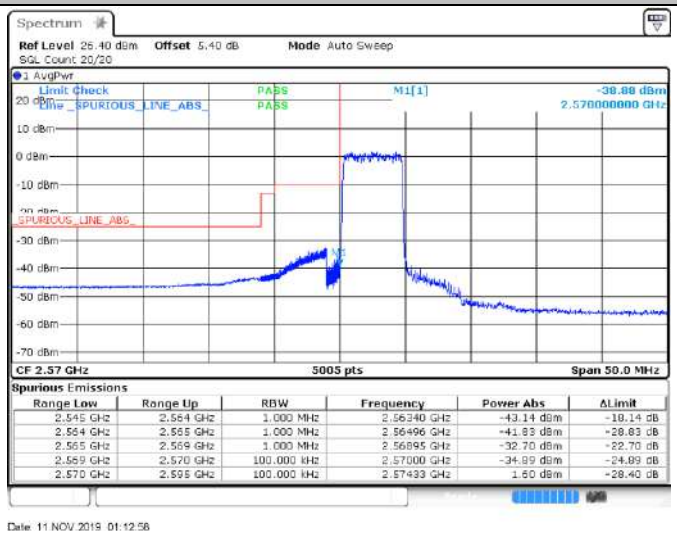

Band38_5MHz_QPSK_38225_1RB#24

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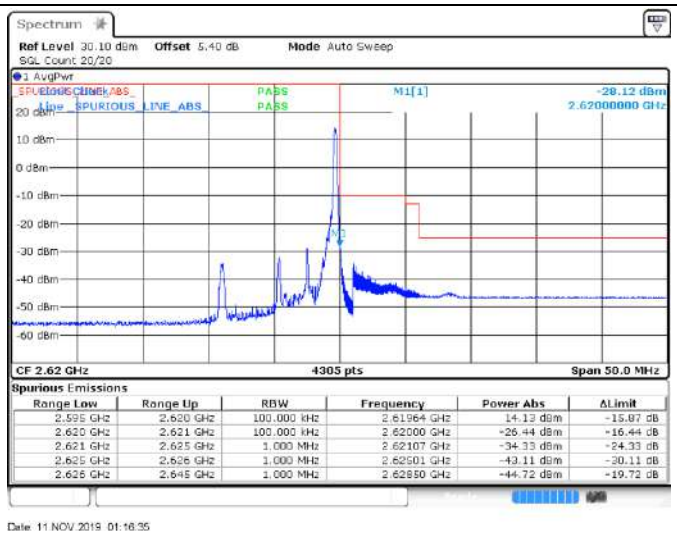
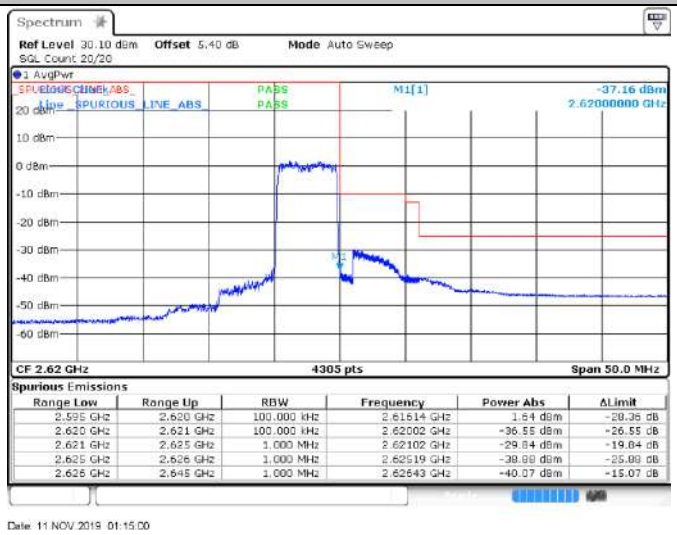


Band38_5MHz_QPSK_38225_25RB#0



Band38_5MHz_16QAM_37775_1RB#0

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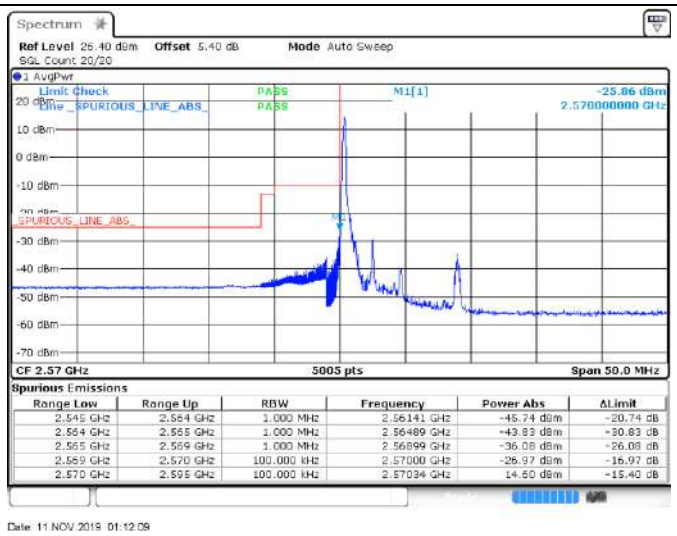

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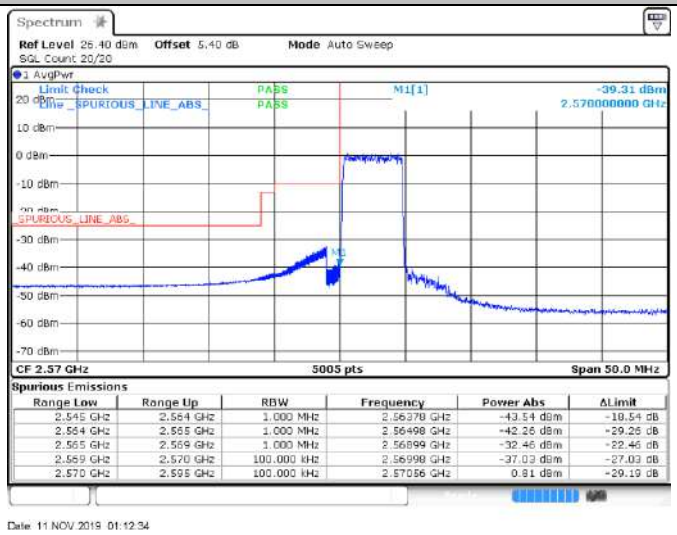

Band38_5MHz_16QAM_38225_1RB#24

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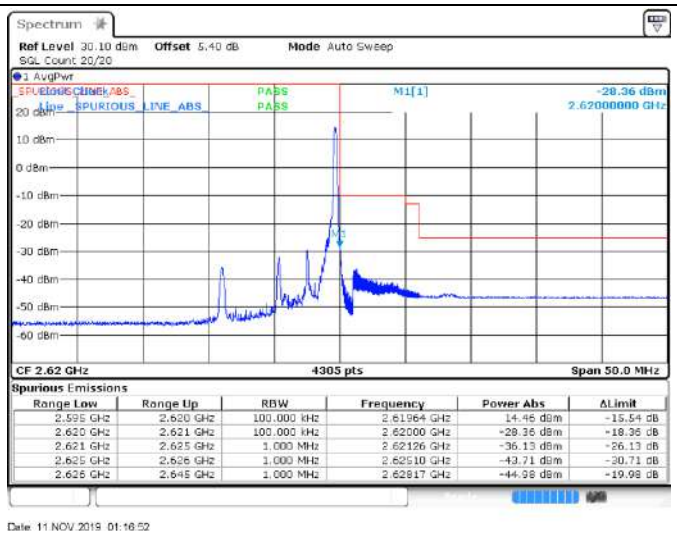

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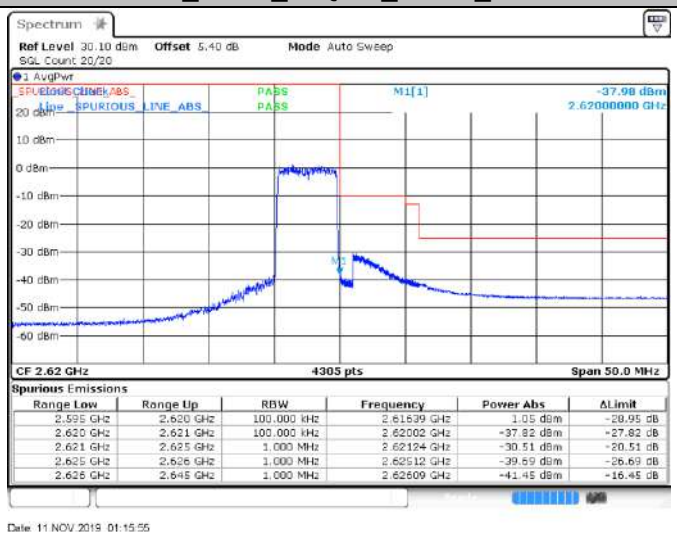

Band38_10MHz_QPSK_37800_1RB#0

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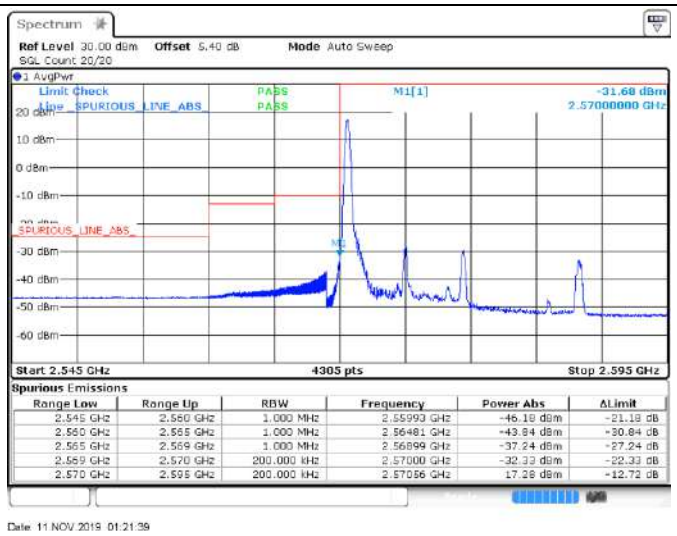
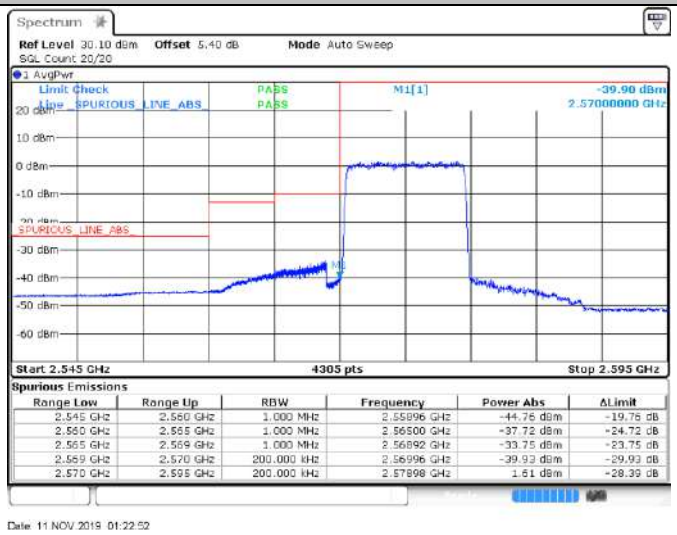


Band38_10MHz_QPSK_37800_50RB#0



Band38_10MHz_QPSK_38200_1RB#49

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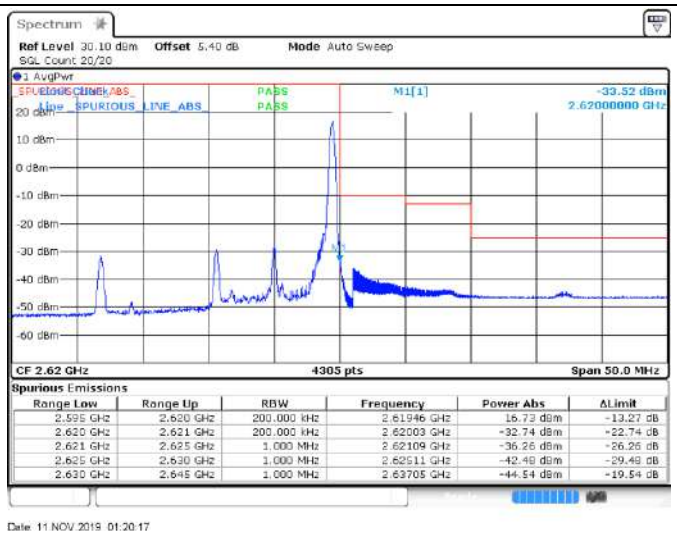

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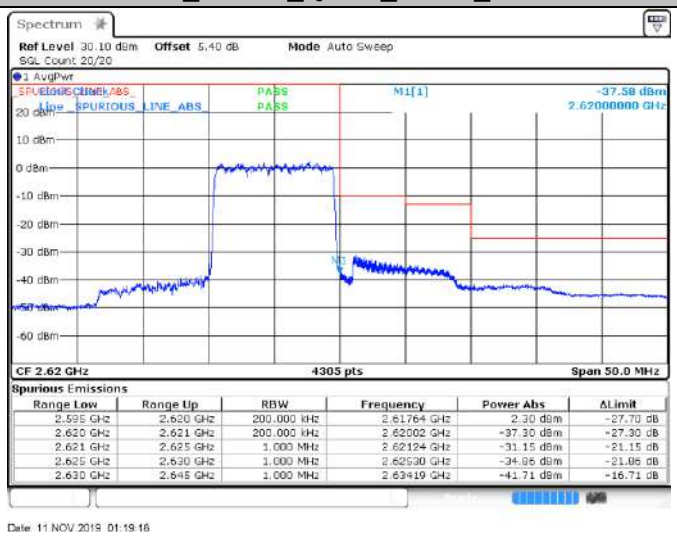

Band38_10MHz_16QAM_37800_1RB#0

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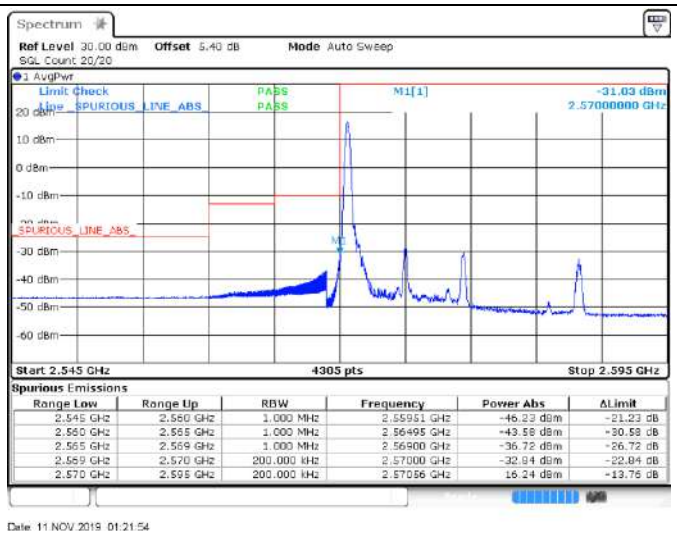

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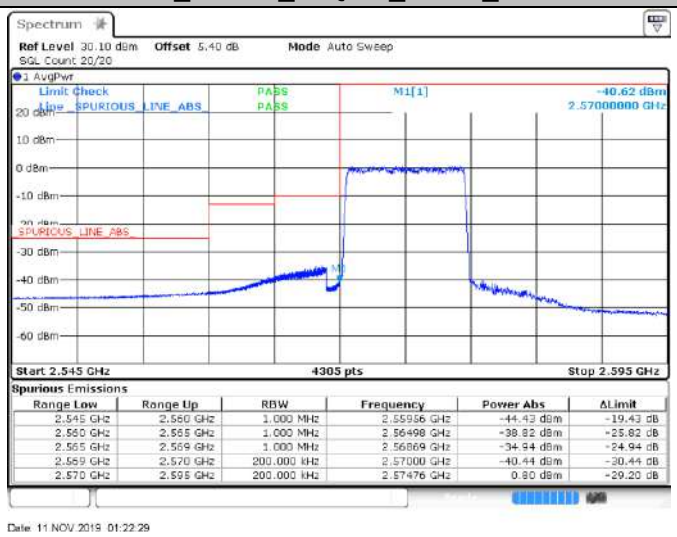

Band38_10MHz_16QAM_38200_1RB#49

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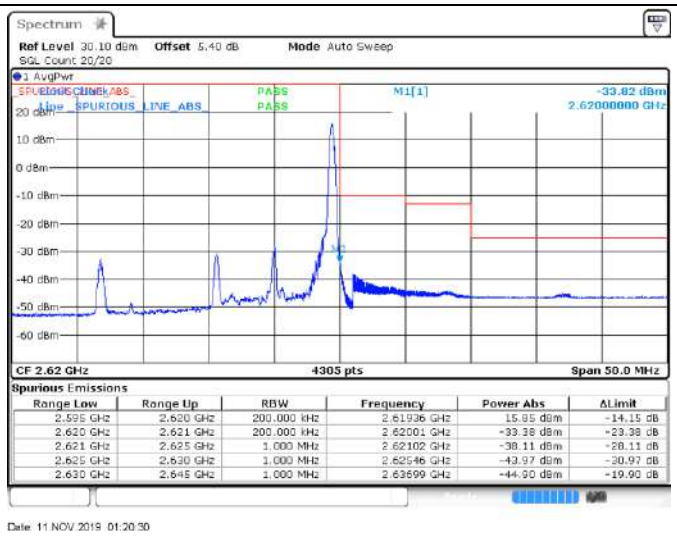

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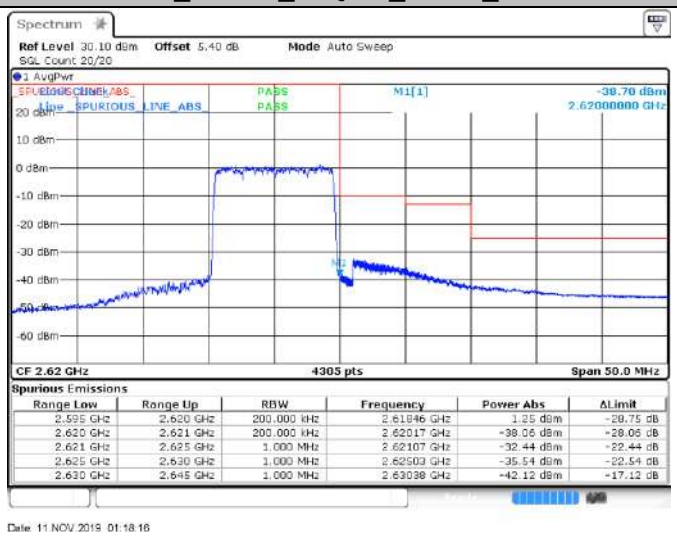

Band38_15MHz_QPSK_37825_1RB#0

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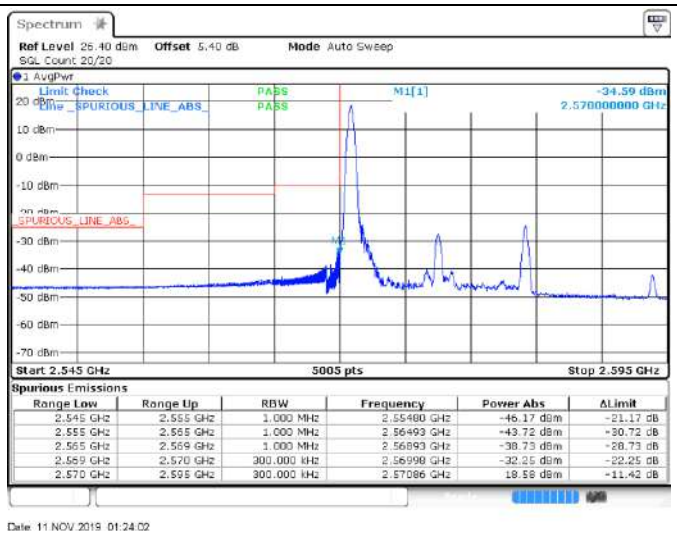

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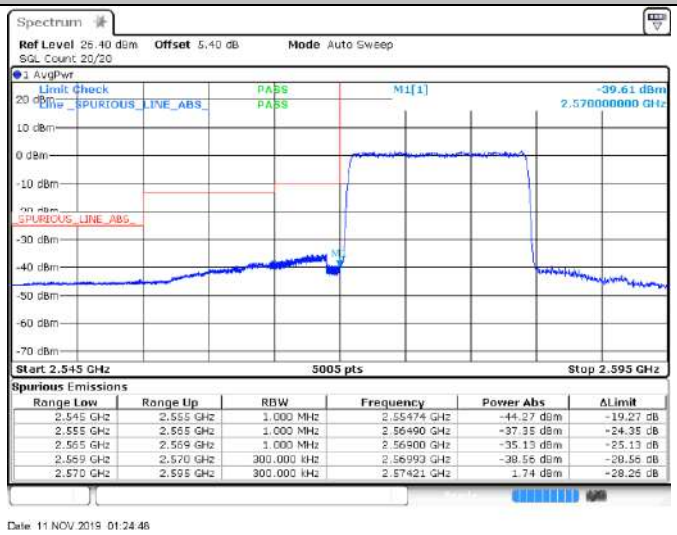

Band38_15MHz_QPSK_38175_1RB#74

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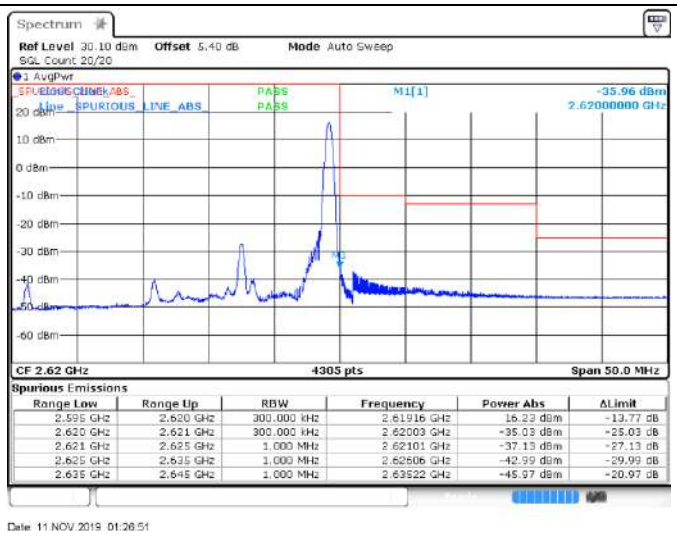

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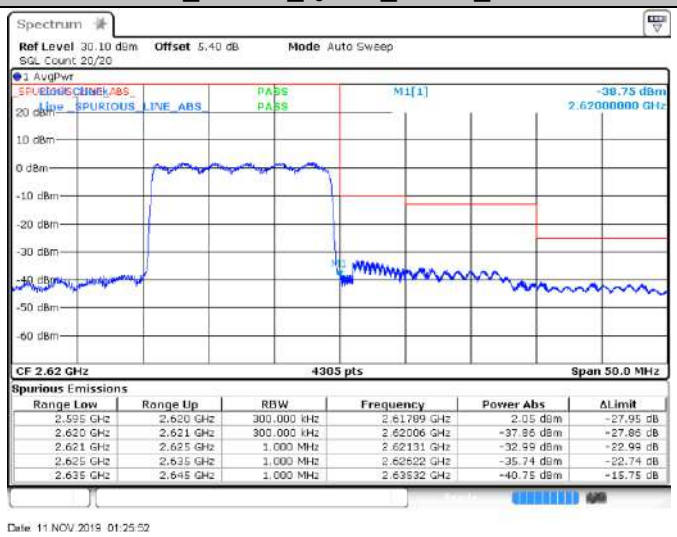

Band38_15MHz_16QAM_37825_1RB#0

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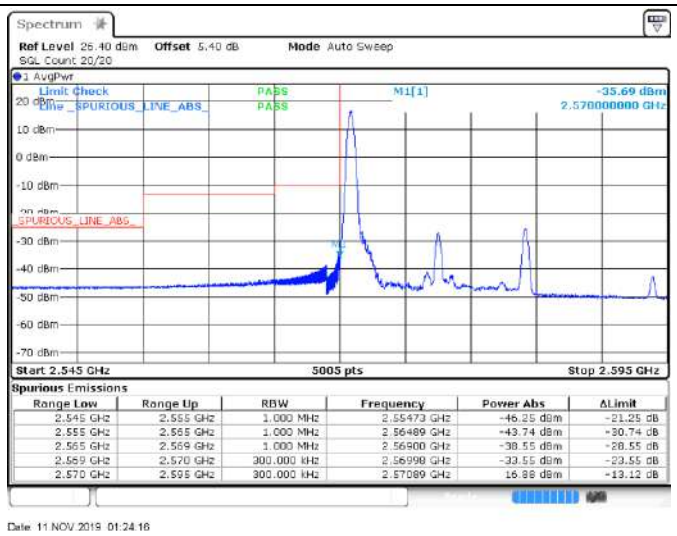

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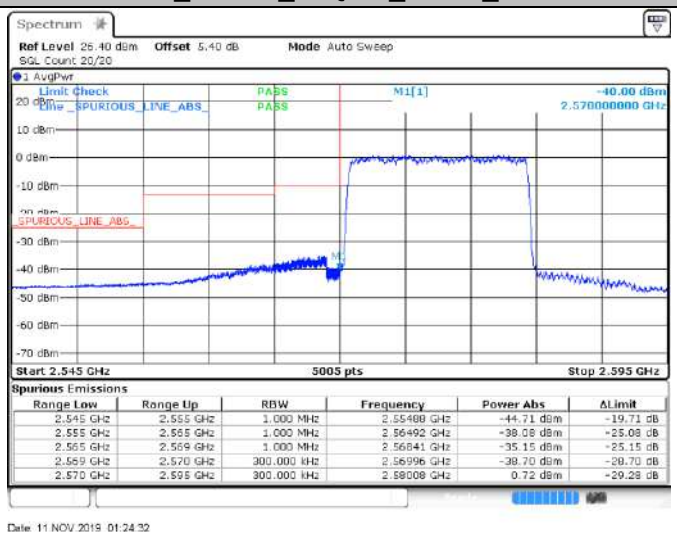

Band38_15MHz_16QAM_38175_1RB#74

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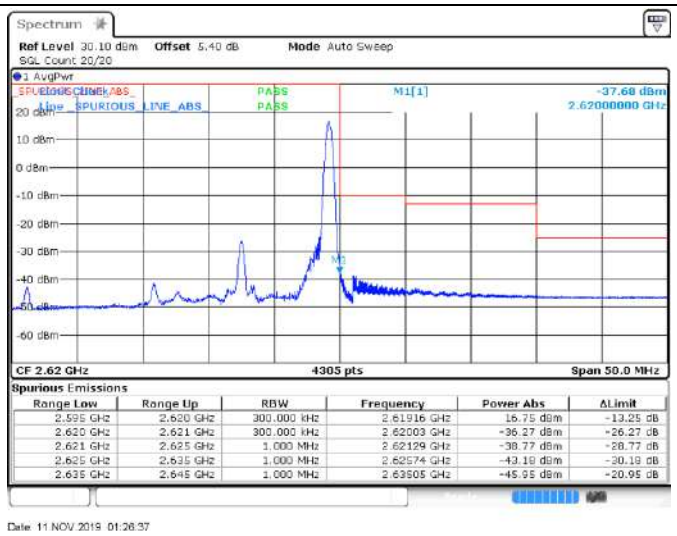
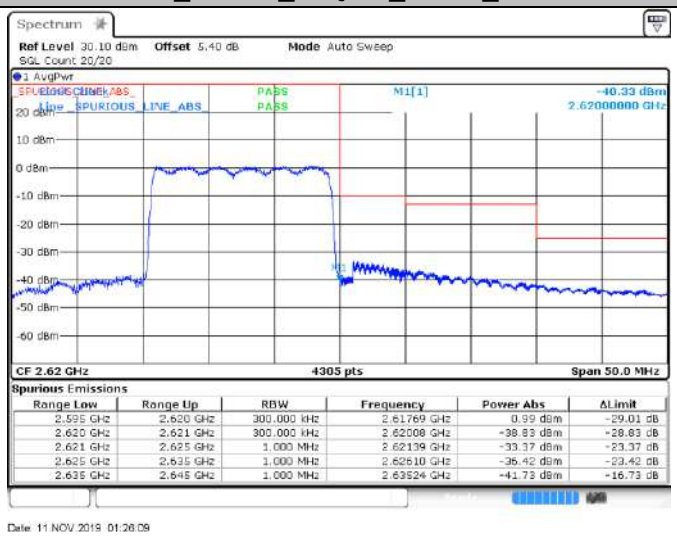


Band38_15MHz_16QAM_38175_75RB#0



Band38_20MHz_QPSK_37850_1RB#0

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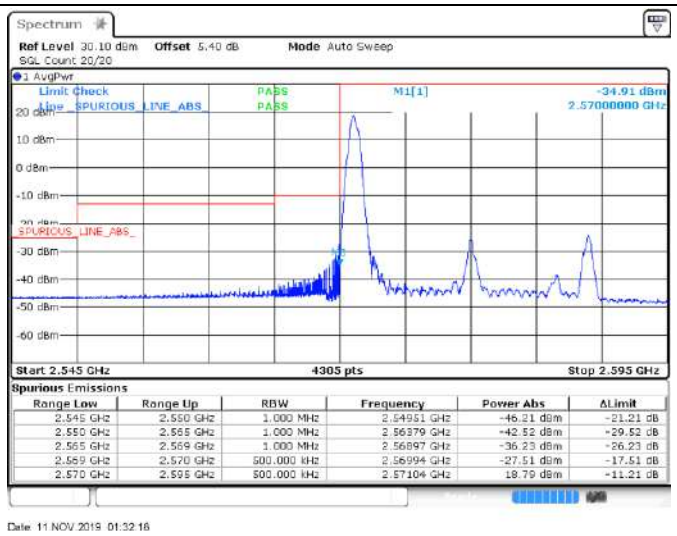
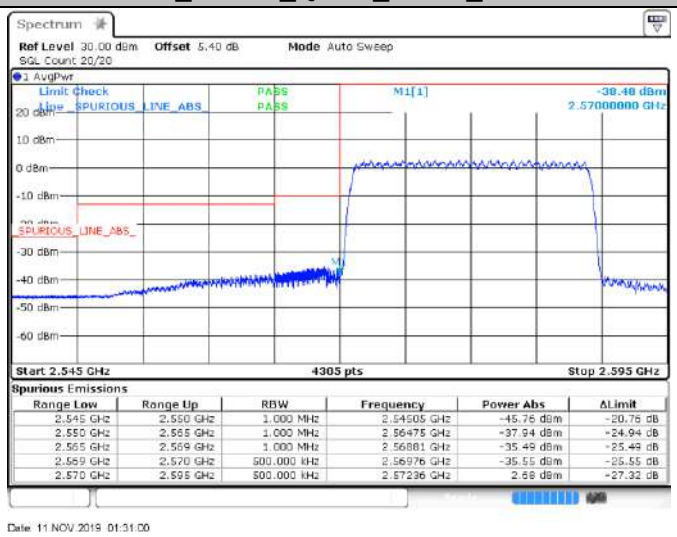


Band38_20MHz_QPSK_37850_100RB#0



Band38_20MHz_QPSK_38150_1RB#99

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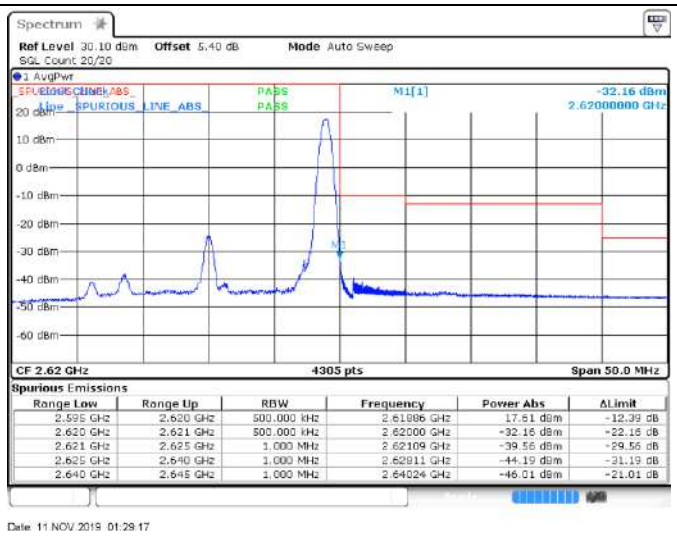
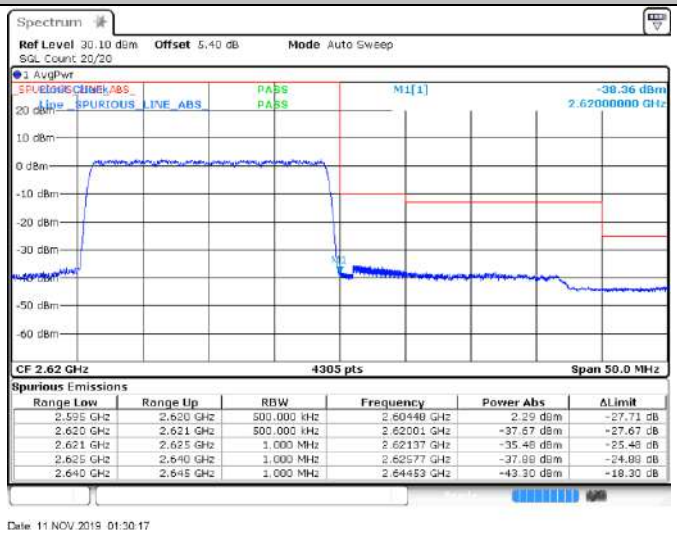


Band38_20MHz_QPSK_38150_100RB#0



Band38_20MHz_16QAM_37850_1RB#0

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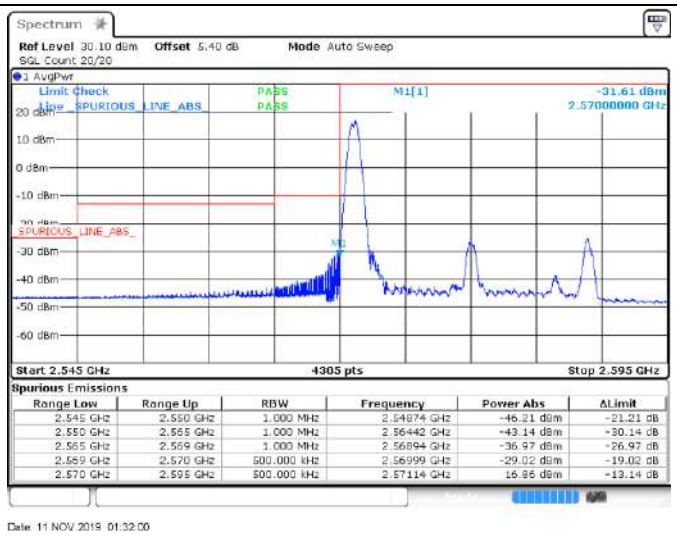
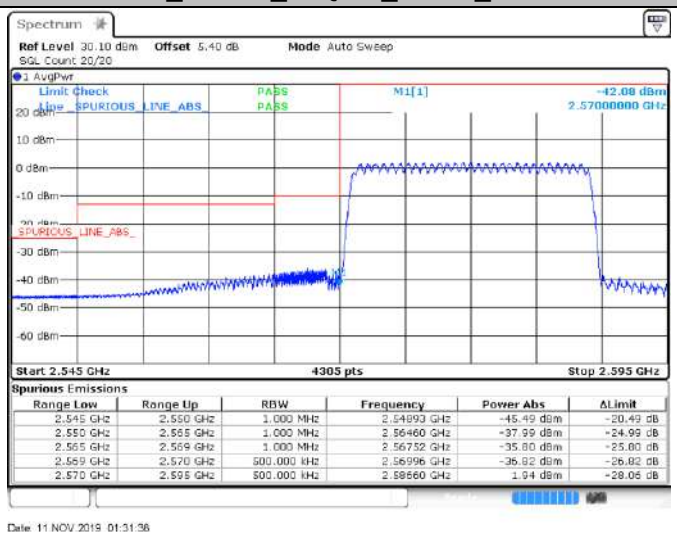


Band38_20MHz_16QAM_37850_100RB#0



Band38_20MHz_16QAM_38150_1RB#99

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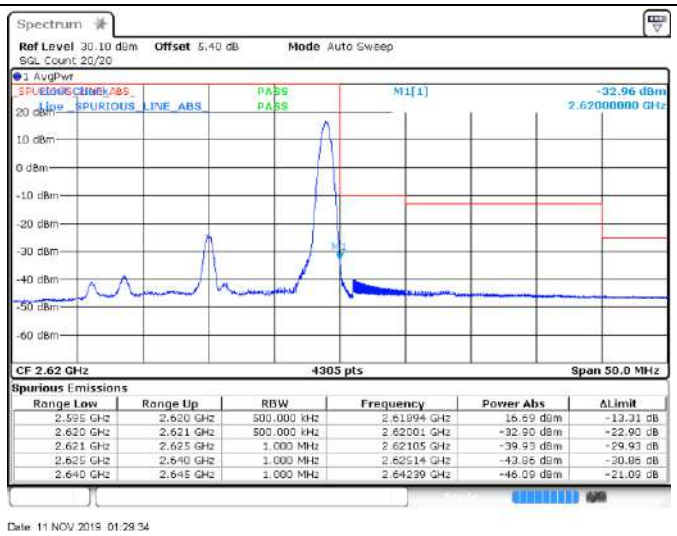
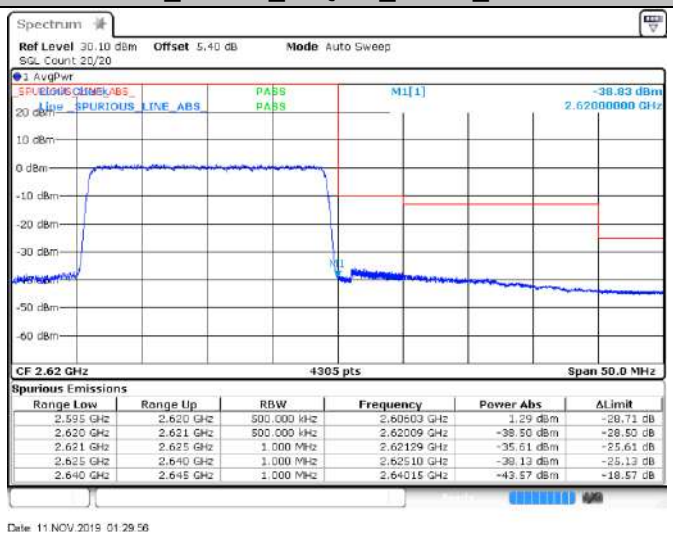


Band38_20MHz_16QAM_38150_100RB#0



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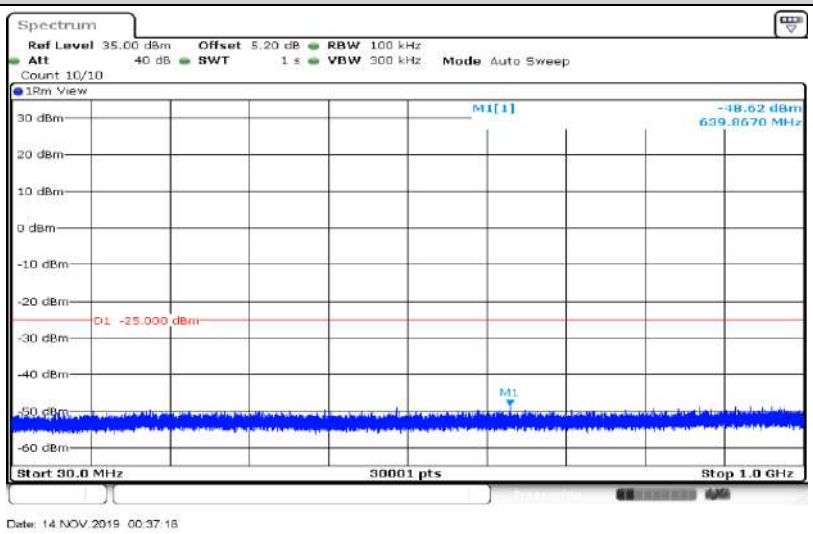
6. Spurious Emission at Antenna Terminal

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.

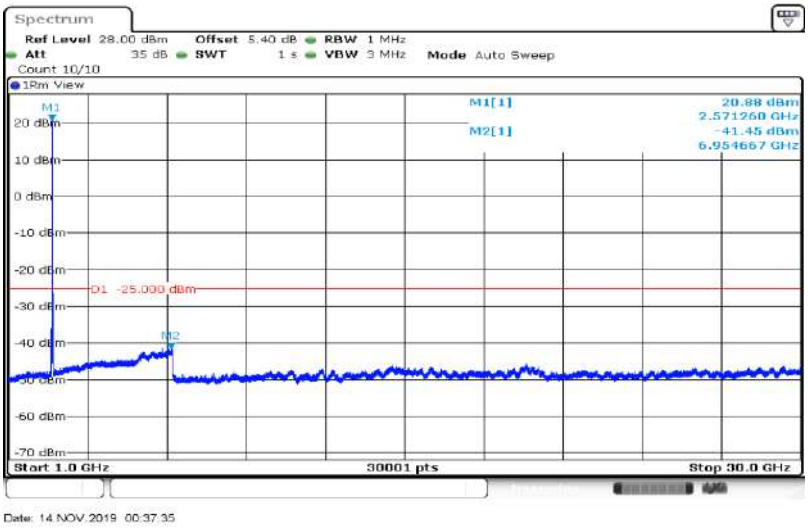
Remark2: only the worst case data displayed in this report.

6.1. Test Plots

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



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



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

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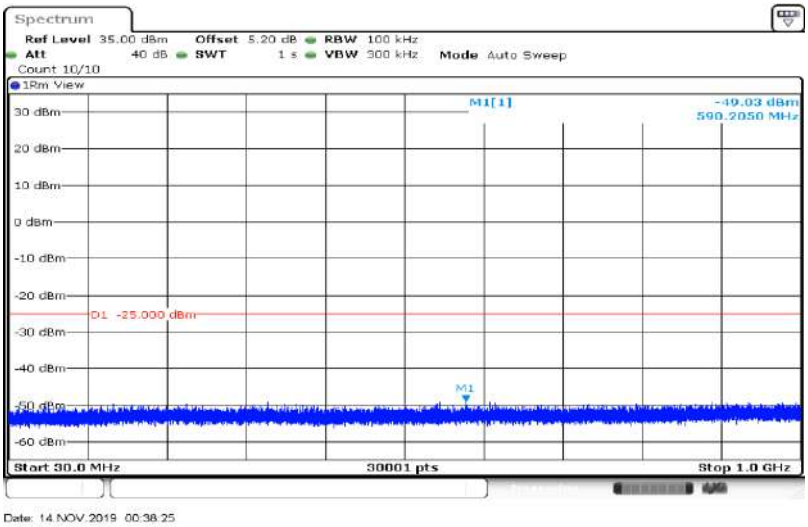

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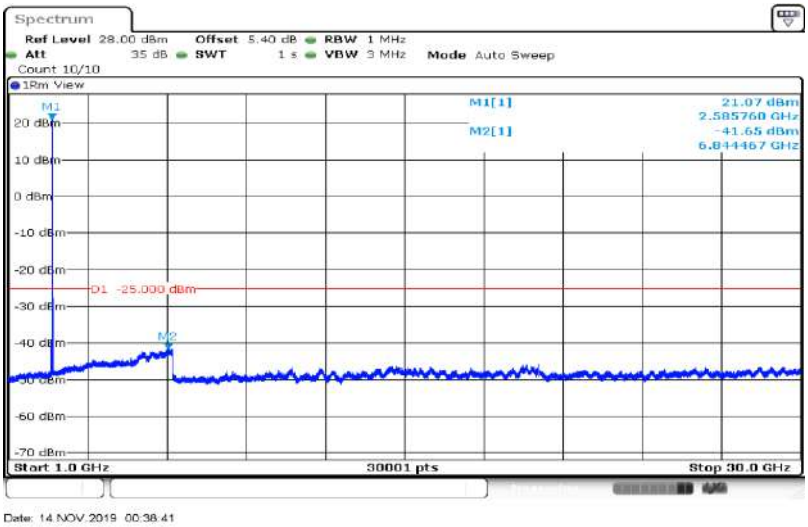

Band38-20MHz-QPSK-38150-1RB#0-Range1:30~1000MHz

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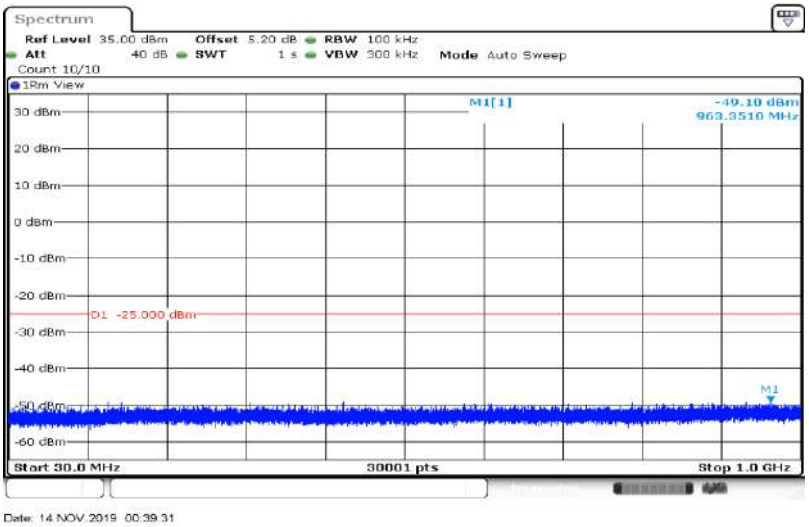

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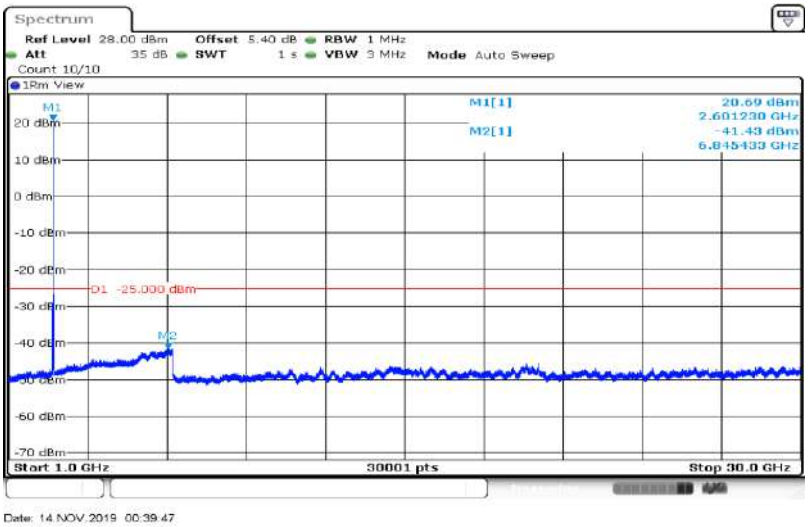

Band38-20MHz-16QAM-37850-1RB#0-Range1:30~1000MHz

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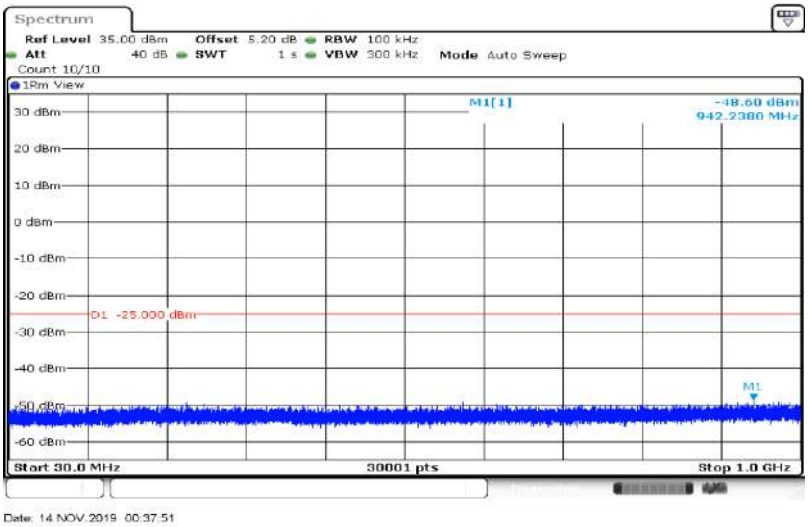
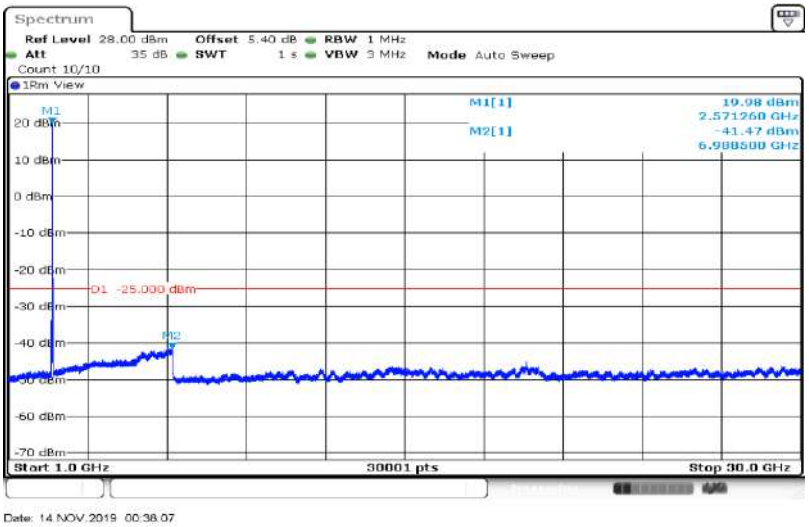


Band38-20MHz-16QAM-37850-1RB#0-Range2:1000~30000MHz



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

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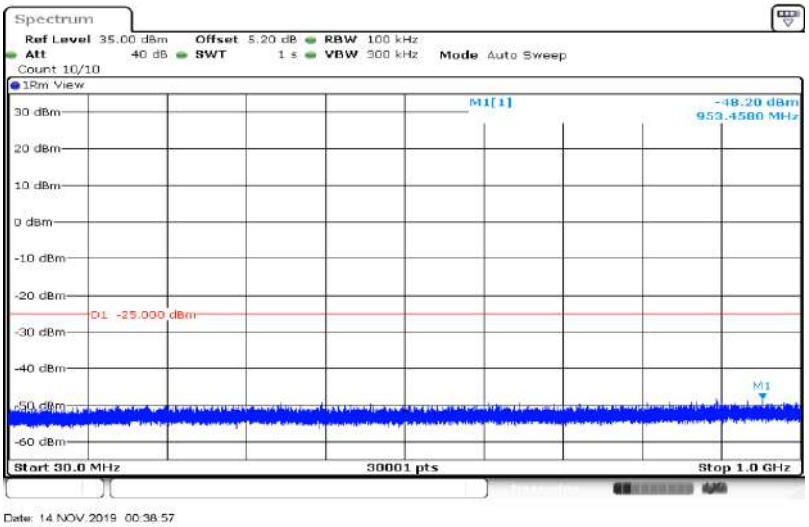
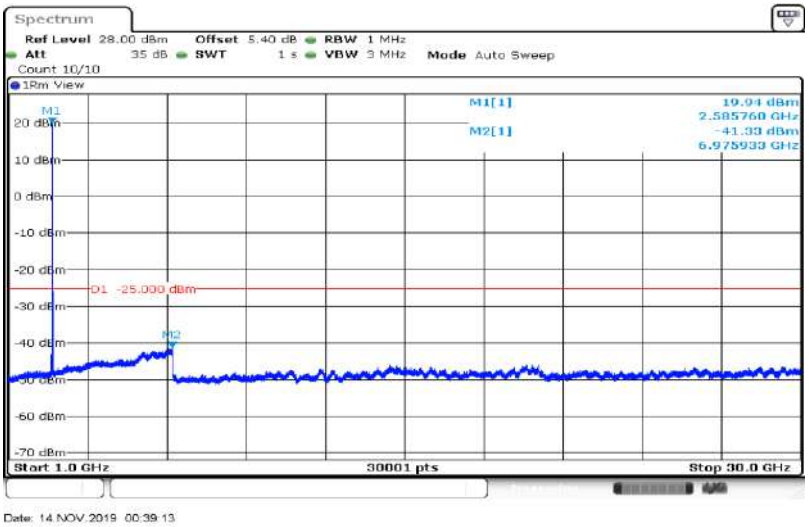


Band38-20MHz-16QAM-38000-1RB#0-Range2:1000~30000MHz



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

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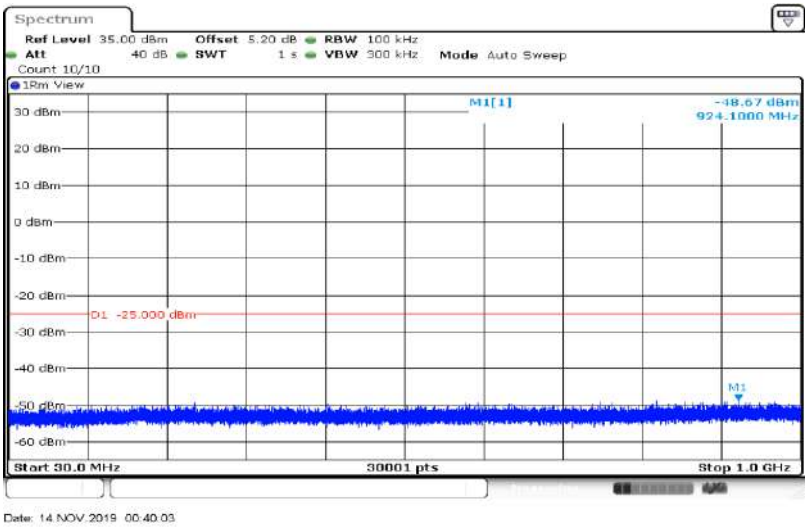
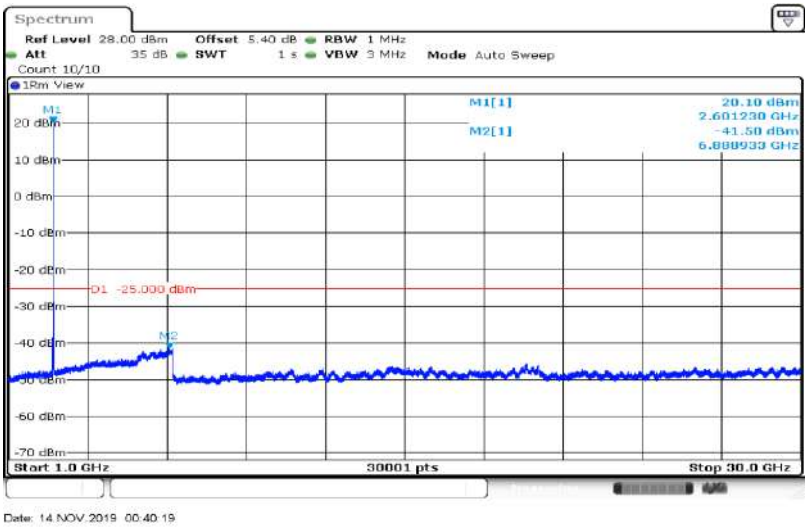


Date: 14 NOV 2019 00:40:03

Band38-20MHz-16QAM-38150-1RB#0-Range2:1000~30000MHz



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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
66.6193	-66.21	-25.00	41.21	233	177	Vertical
110.6595	-64.68	-25.00	39.68	272	250	Vertical
5202.0734	-50.69	-25.00	25.69	296	53	Vertical
7803.1601	-31.08	-25.00	6.08	173	201	Vertical
13005.3335	-41.78	-25.00	16.78	277	78	Vertical
17996.4999	-33.06	-25.00	8.06	184	177	Vertical
42.8046	-64.16	-25.00	39.16	199	202	Horizontal
241.5191	-68.42	-25.00	43.42	132	128	Horizontal
875.3488	-60.10	-25.00	35.10	173	178	Horizontal
5142.0714	-53.47	-25.00	28.47	172	79	Horizontal
7713.1571	-44.23	-25.00	19.23	188	178	Horizontal
16392.4464	-37.33	-25.00	12.33	242	300	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
44.3082	-64.88	-25.00	39.88	166	202	Vertical
231.0426	-68.85	-25.00	43.85	145	276	Vertical
786.2498	-62.24	-25.00	37.24	111	276	Vertical
5172.0724	-52.89	-25.00	27.89	137	349	Vertical
7758.6586	-41.96	-25.00	16.96	278	29	Vertical
16389.9463	-37.18	-25.00	12.18	187	349	Vertical
113.1332	-64.80	-25.00	39.80	169	79	Horizontal
683.3762	-63.00	-25.00	38.00	178	152	Horizontal
5142.0714	-49.25	-25.00	24.25	132	349	Horizontal
7713.1571	-33.38	-25.00	8.38	188	201	Horizontal
10283.7428	-44.04	-25.00	19.04	219	53	Horizontal
17971.4991	-33.44	-25.00	8.44	274	53	Horizontal

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7.1.3.Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
44.5507	-64.61	-25.00	39.61	166	275	Vertical
234.9227	-68.20	-25.00	43.20	132	348	Vertical
830.5810	-62.10	-25.00	37.10	172	102	Vertical
5202.5734	-53.29	-25.00	28.29	222	348	Vertical
7803.6601	-40.86	-25.00	15.86	296	29	Vertical
16398.9466	-36.95	-25.00	11.95	241	102	Vertical
110.1745	-65.90	-25.00	40.90	241	350	Horizontal
291.3311	-69.60	-25.00	44.60	153	29	Horizontal
846.0533	-61.44	-25.00	36.44	196	350	Horizontal
5172.0724	-50.02	-25.00	25.02	244	350	Horizontal
7758.1586	-31.01	-25.00	6.01	132	350	Horizontal
17997.4999	-33.58	-25.00	8.58	288	4	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	-18.90	-0.007326	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VN	NT	-22.13	-0.008578	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VH	NT	-17.22	-0.006674	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VL	NT	-20.30	-0.007823	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	-26.26	-0.010119	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	-22.50	-0.008671	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VL	NT	-13.93	-0.005337	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VN	NT	-20.59	-0.007889	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VH	NT	-13.89	-0.005322	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VL	NT	-17.38	-0.006736	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VN	NT	-20.61	-0.007988	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VH	NT	-16.82	-0.006519	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VL	NT	-21.97	-0.008466	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VN	NT	-49.07	-0.018909	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VH	NT	-22.53	-0.008682	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VL	NT	-13.50	-0.005172	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VN	NT	-14.88	-0.005701	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VH	NT	-15.34	-0.005877	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	NV	-30	-19.08	-0.007395	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	-20	-15.48	-0.006000	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	0	-18.32	-0.007101	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	10	-18.54	-0.007186	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	20	-15.85	-0.006143	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	30	-16.75	-0.006492	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	40	-19.83	-0.007686	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	50	-25.66	-0.009946	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-30	-20.71	-0.007981	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	-19.47	-0.007503	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	-21.14	-0.008146	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	-20.74	-0.007992	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	-23.57	-0.009083	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	-21.56	-0.008308	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	-21.46	-0.008270	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	-24.02	-0.009256	±2.5	PASS

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Band38	20MHz	QPSK	38150	100RB#0	NV	-30	-16.89	-0.006471	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-20	-14.91	-0.005713	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	0	-18.61	-0.007130	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	10	-14.83	-0.005682	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	20	-14.68	-0.005625	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	30	-19.33	-0.007406	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	40	-14.45	-0.005536	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	50	-13.95	-0.005345	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-30	-23.53	-0.009120	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-20	-18.44	-0.007147	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	0	-17.91	-0.006942	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	10	-16.18	-0.006271	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	20	-19.30	-0.007481	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	30	-20.73	-0.008035	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	40	-15.31	-0.005934	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	50	-18.65	-0.007229	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-30	-21.92	-0.008447	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-20	-22.50	-0.008671	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	0	-16.89	-0.006509	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	10	-20.93	-0.008066	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	20	-19.61	-0.007557	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	30	-21.40	-0.008247	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	40	-25.81	-0.009946	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	50	-19.44	-0.007491	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-30	-15.64	-0.005992	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-20	-13.28	-0.005088	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	0	-17.64	-0.006759	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	10	-14.93	-0.005720	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	20	-14.58	-0.005586	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	30	-14.58	-0.005586	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	40	-14.52	-0.005563	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	50	-16.25	-0.006226	±2.5	PASS

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