Appendix B

E-UTRA BAND 38

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1. Effective (Isotropic) Radiated Power

1.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	23.39	25.45	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#12	23.55	25.61	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#24	23.46	25.52	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#0	22.53	24.59	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#6	22.51	24.57	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#13	22.44	24.50	33.00	PASS
Band38	5MHz	QPSK	37775	25RB#0	22.44	24.50	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#0	23.35	25.41	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#12	23.78	25.84	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#24	23.40	25.46	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#0	22.48	24.54	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#6	22.54	24.60	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#13	22.47	24.53	33.00	PASS
Band38	5MHz	QPSK	38000	25RB#0	22.47	24.53	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#0	23.32	25.38	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#12	23.63	25.69	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#24	23.49	25.55	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#0	22.45	24.51	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#6	22.36	24.42	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#13	22.41	24.47	33.00	PASS
Band38	5MHz	QPSK	38225	25RB#0	22.43	24.49	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#0	22.03	24.09	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#12	22.24	24.30	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#24	21.74	23.80	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#0	21.40	23.46	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#6	21.48	23.54	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#13	21.31	23.37	33.00	PASS
Band38	5MHz	16QAM	37775	25RB#0	21.40	23.46	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#0	21.94	24.00	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#12	22.28	24.34	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#24	21.99	24.05	33.00	PASS
Band38	5MHz	16QAM	38000	12RB#0	21.43	23.49	33.00	PASS

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Band38	5MHz	16QAM	38000	12RB#6	21.42	23.48	33.00	PASS
Band38	5MHz	16QAM	38000	12RB#13	21.37	23.43	33.00	PASS
Band38	5MHz	16QAM	38000	25RB#0	21.35	23.41	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#0	21.95	24.01	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#12	22.14	24.20	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#24	21.91	23.97	33.00	PASS
Band38	5MHz	16QAM	38225	12RB#0	21.37	23.43	33.00	PASS
Band38	5MHz	16QAM	38225	12RB#6	21.25	23.31	33.00	PASS
Band38	5MHz	16QAM	38225	12RB#13	21.36	23.42	33.00	PASS
Band38	5MHz	16QAM	38225	25RB#0	21.26	23.32	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#0	23.62	25.68	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#24	23.75	25.81	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#49	23.25	25.31	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#0	22.66	24.72	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#12	22.58	24.64	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#25	22.34	24.40	33.00	PASS
Band38	10MHz	QPSK	37800	50RB#0	22.44	24.50	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#0	23.38	25.44	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#24	23.89	25.95	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#49	23.25	25.31	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#0	22.52	24.58	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#12	22.53	24.59	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#25	22.37	24.43	33.00	PASS
Band38	10MHz	QPSK	38000	50RB#0	22.45	24.51	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#0	23.26	25.32	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#24	23.73	25.79	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#49	23.17	25.23	33.00	PASS
Band38	10MHz	QPSK	38200	25RB#0	22.58	24.64	33.00	PASS
Band38	10MHz	QPSK	38200	25RB#12	22.43	24.49	33.00	PASS
Band38	10MHz	QPSK	38200	25RB#25	22.30	24.36	33.00	PASS
Band38	10MHz	QPSK	38200	50RB#0	22.39	24.45	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#0	22.12	24.18	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#24	22.08	24.14	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#49	22.08	24.14	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#0	21.49	23.55	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#12	21.54	23.60	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#25	21.42	23.48	33.00	PASS
Band38	10MHz	16QAM	37800	50RB#0	21.37	23.43	33.00	PASS

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Band38	10MHz	16QAM	38000	1RB#0	22.09	24.15	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#24	22.19	24.25	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#49	22.03	24.09	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#0	21.37	23.43	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#12	21.43	23.49	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#25	21.55	23.61	33.00	PASS
Band38	10MHz	16QAM	38000	50RB#0	21.31	23.37	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#0	21.94	24.00	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#24	22.22	24.28	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#49	22.01	24.07	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#0	21.50	23.56	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#12	21.40	23.46	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#25	21.37	23.43	33.00	PASS
Band38	10MHz	16QAM	38200	50RB#0	21.34	23.40	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#0	23.54	25.60	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#38	23.65	25.71	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#74	23.20	25.26	33.00	PASS
Band38	15MHz	QPSK	37825	36RB#0	22.51	24.57	33.00	PASS
Band38	15MHz	QPSK	37825	36RB#18	22.56	24.62	33.00	PASS
Band38	15MHz	QPSK	37825	36RB#39	22.41	24.47	33.00	PASS
Band38	15MHz	QPSK	37825	75RB#0	22.41	24.47	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#0	23.41	25.47	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#38	23.66	25.72	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#74	23.29	25.35	33.00	PASS
Band38	15MHz	QPSK	38000	36RB#0	22.53	24.59	33.00	PASS
Band38	15MHz	QPSK	38000	36RB#18	22.57	24.63	33.00	PASS
Band38	15MHz	QPSK	38000	36RB#39	22.40	24.46	33.00	PASS
Band38	15MHz	QPSK	38000	75RB#0	22.50	24.56	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#0	23.36	25.42	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#38	23.53	25.59	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#74	23.24	25.30	33.00	PASS
Band38	15MHz	QPSK	38175	36RB#0	22.56	24.62	33.00	PASS
Band38	15MHz	QPSK	38175	36RB#18	22.51	24.57	33.00	PASS
Band38	15MHz	QPSK	38175	36RB#39	22.31	24.37	33.00	PASS
Band38	15MHz	QPSK	38175	75RB#0	22.37	24.43	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#0	22.21	24.27	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#38	22.07	24.13	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#74	21.86	23.92	33.00	PASS

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Band38	15MHz	16QAM	37825	36RB#0	21.42	23.48	33.00	PASS
Band38	15MHz	16QAM	37825	36RB#18	21.36	23.42	33.00	PASS
Band38	15MHz	16QAM	37825	36RB#39	21.35	23.41	33.00	PASS
Band38	15MHz	16QAM	37825	75RB#0	21.44	23.50	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#0	22.10	24.16	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#38	21.95	24.01	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#74	21.98	24.04	33.00	PASS
Band38	15MHz	16QAM	38000	36RB#0	21.47	23.53	33.00	PASS
Band38	15MHz	16QAM	38000	36RB#18	21.34	23.40	33.00	PASS
Band38	15MHz	16QAM	38000	36RB#39	21.47	23.53	33.00	PASS
Band38	15MHz	16QAM	38000	75RB#0	21.43	23.49	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#0	22.27	24.33	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#38	21.82	23.88	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#74	22.05	24.11	33.00	PASS
Band38	15MHz	16QAM	38175	36RB#0	21.32	23.38	33.00	PASS
Band38	15MHz	16QAM	38175	36RB#18	21.44	23.50	33.00	PASS
Band38	15MHz	16QAM	38175	36RB#39	21.27	23.33	33.00	PASS
Band38	15MHz	16QAM	38175	75RB#0	21.30	23.36	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#0	23.48	25.54	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#49	23.86	25.92	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#99	23.03	25.09	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#0	22.55	24.61	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#25	22.64	24.70	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#50	22.34	24.40	33.00	PASS
Band38	20MHz	QPSK	37850	100RB#0	22.47	24.53	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#0	23.32	25.38	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#49	23.88	25.94	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#99	23.12	25.18	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#0	22.55	24.61	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#25	22.57	24.63	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#50	22.36	24.42	33.00	PASS
Band38	20MHz	QPSK	38000	100RB#0	22.40	24.46	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#0	23.44	25.50	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#49	23.68	25.74	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#99	23.14	25.20	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#0	22.59	24.65	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#25	22.57	24.63	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#50	22.32	24.38	33.00	PASS

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Band38	20MHz	QPSK	38150	100RB#0	22.41	24.47	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#0	22.20	24.26	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#49	22.41	24.47	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#99	21.91	23.97	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#0	21.38	23.44	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#25	21.38	23.44	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#50	21.30	23.36	33.00	PASS
Band38	20MHz	16QAM	37850	100RB#0	21.42	23.48	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#0	21.92	23.98	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#49	22.17	24.23	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#99	21.98	24.04	33.00	PASS
Band38	20MHz	16QAM	38000	50RB#0	21.38	23.44	33.00	PASS
Band38	20MHz	16QAM	38000	50RB#25	21.33	23.39	33.00	PASS
Band38	20MHz	16QAM	38000	50RB#50	21.42	23.48	33.00	PASS
Band38	20MHz	16QAM	38000	100RB#0	21.48	23.54	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#0	22.17	24.23	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#49	22.19	24.25	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#99	22.03	24.09	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#0	21.45	23.51	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#25	21.33	23.39	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#50	21.26	23.32	33.00	PASS
Band38	20MHz	16QAM	38150	100RB#0	21.39	23.45	33.00	PASS

REMARK:

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

ERP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBd]

EIRP [dBm] = SGP [dBm] – Cable Loss [dB] + Gain [dBi]

b: SGP=Signal Generator Level

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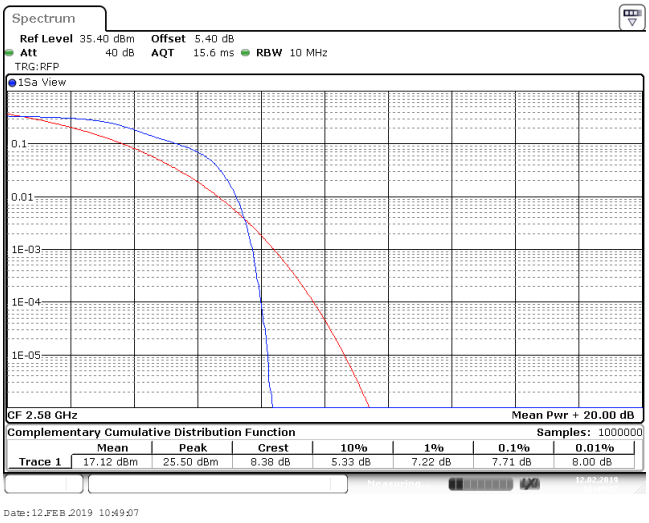
2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	7.71	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	7.68	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	7.77	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	9.42	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	9.39	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	9.39	13	PASS

2.2. Test Plots

Band38_20MHz_QPSK_37850_100RB#0



Band38_20MHz_QPSK_38000_100RB#0

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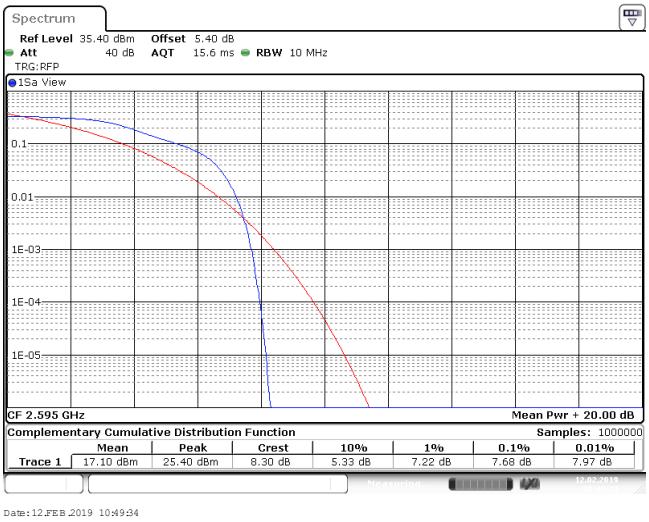
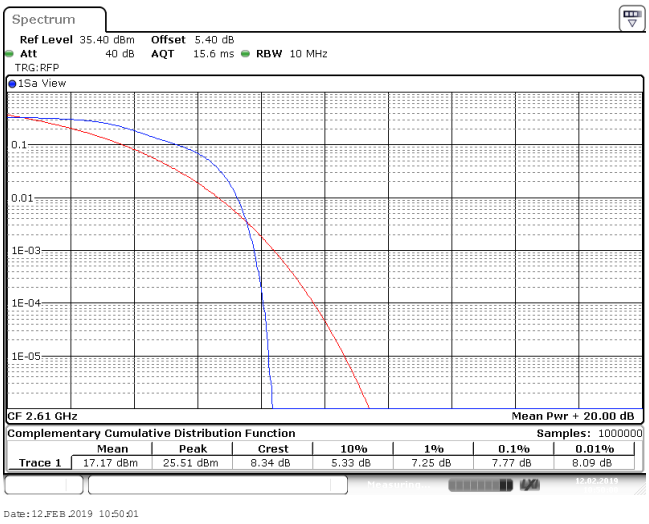


Band38_20MHz_QPSK_38150_100RB#0



Band38_20MHz_16QAM_37850_100RB#0

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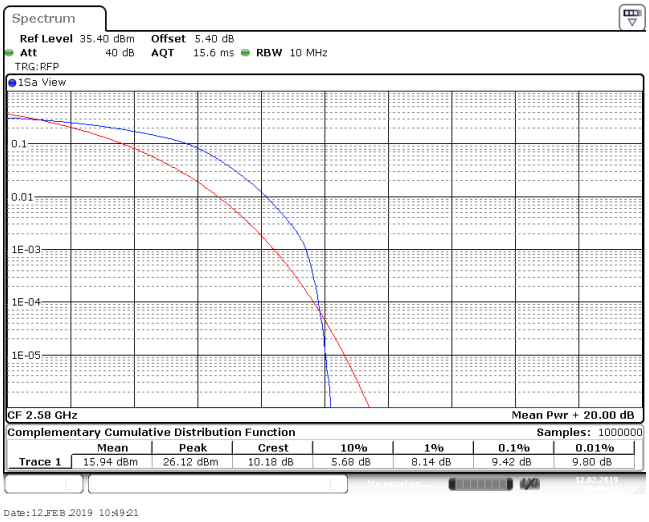
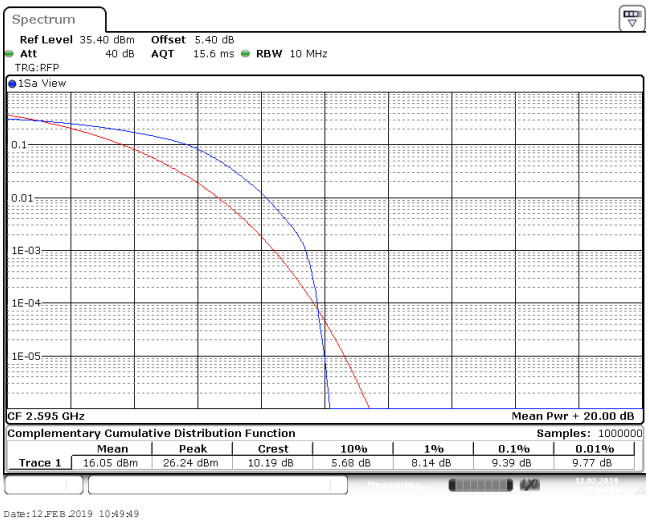


Band38_20MHz_16QAM_38000_100RB#0



Band38_20MHz_16QAM_38150_100RB#0

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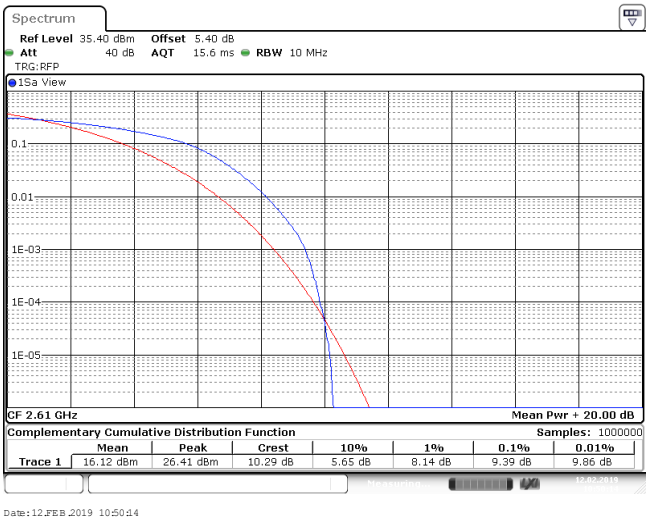

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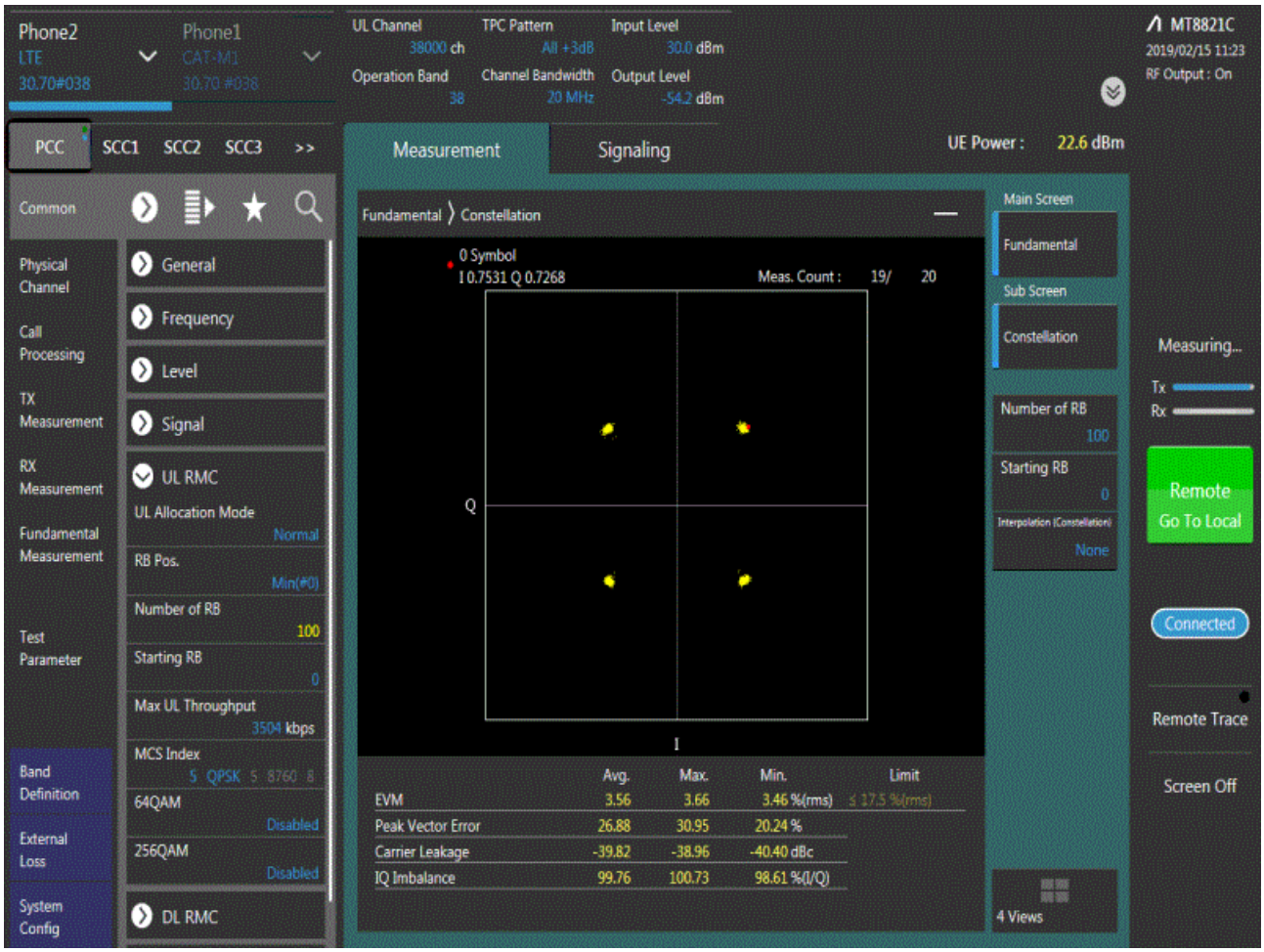
3. Modulation Characteristics

3.1. Test BAND = LTE BAND38

3.1.1. Test Mode = LTE /TM1 20MHz

3.1.1.1. Test Channel = MCH



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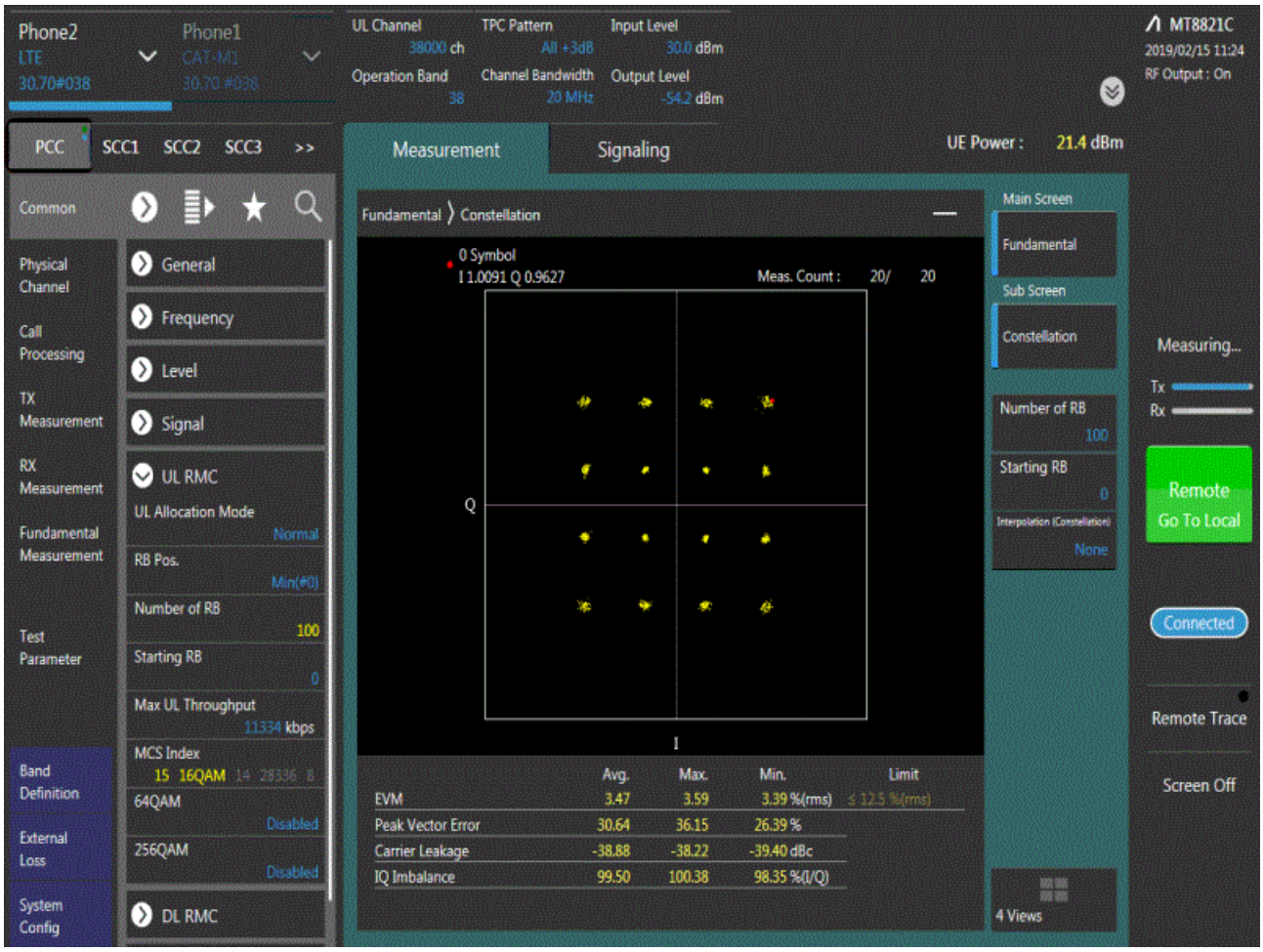
3.1.2. Test Mode = LTE /TM2 20MHz

3.1.2.1. 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	4.820	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.476	4.780	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.466	4.800	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.486	4.850	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.486	4.840	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.486	4.830	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.911	9.460	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.911	9.480	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.911	9.420	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.911	9.360	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.911	9.380	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.911	9.380	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.457	14.370	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.457	14.310	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.457	14.340	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.457	14.310	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.457	14.310	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.457	14.280	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.822	18.840	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.822	18.840	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.822	18.800	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.822	18.800	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.822	18.840	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.822	18.800	PASS

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4.2. Test Plots

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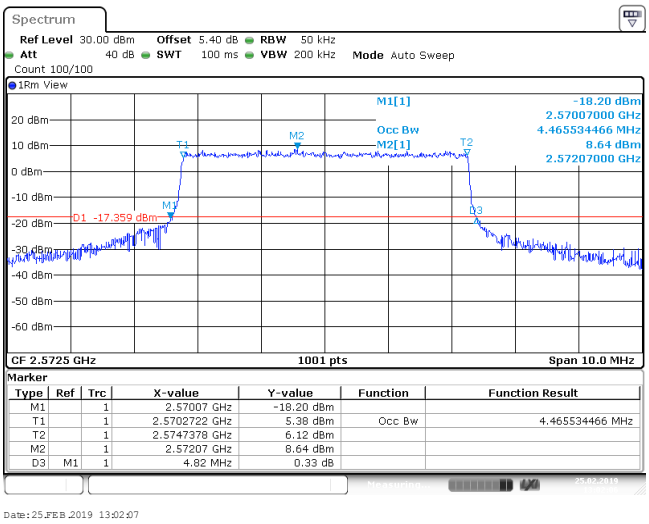
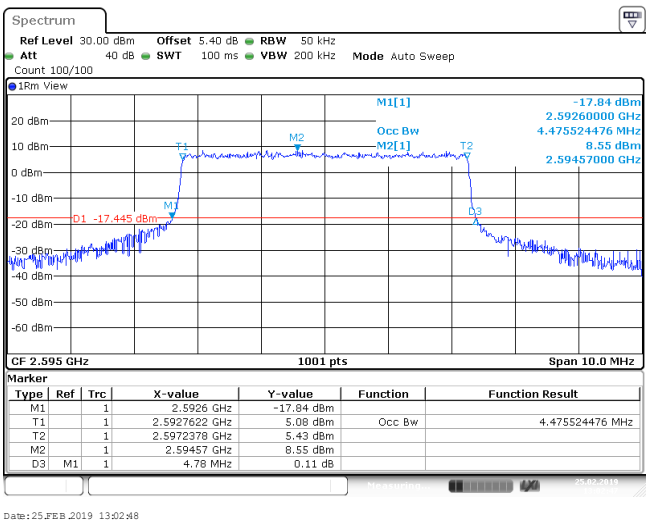


Band38_5MHz_QPSK_38000_25RB#0



Band38_5MHz_QPSK_38225_25RB#0

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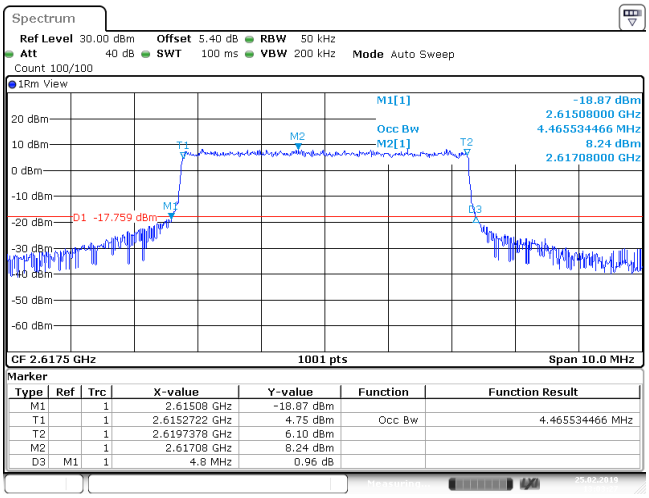
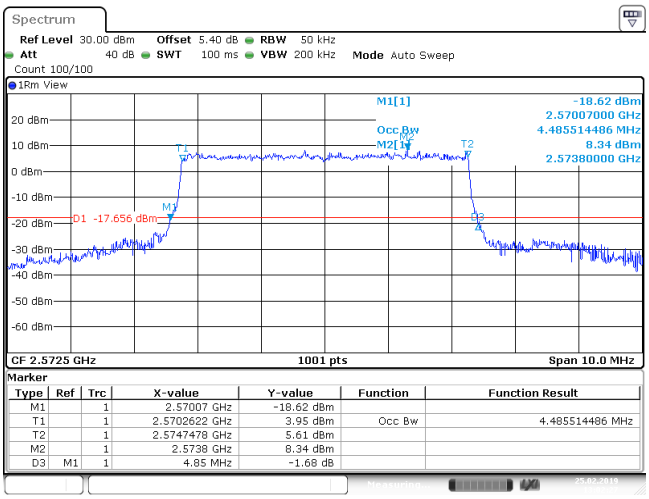


Band38_5MHz_16QAM_37775_25RB#0



Band38_5MHz_16QAM_38000_25RB#0

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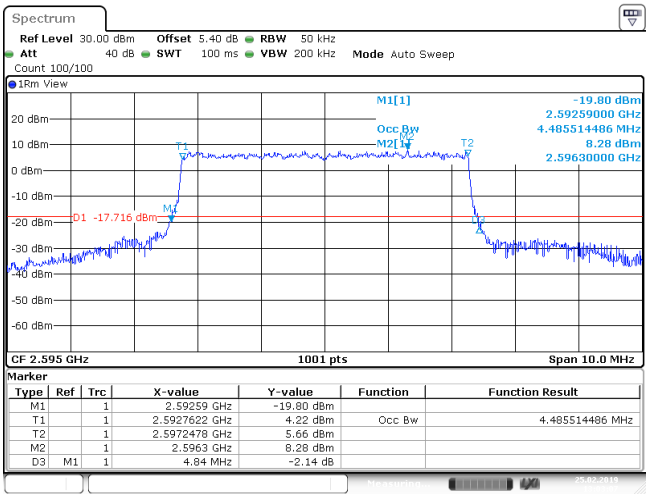
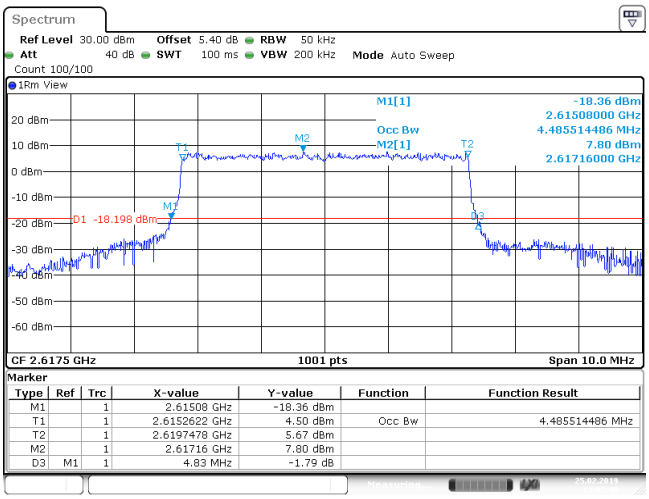


Band38_5MHz_16QAM_38225_25RB#0



Band38_10MHz_QPSK_37800_50RB#0

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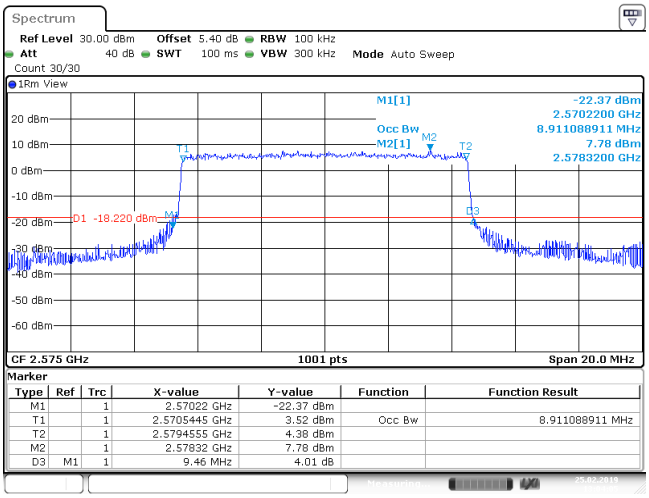

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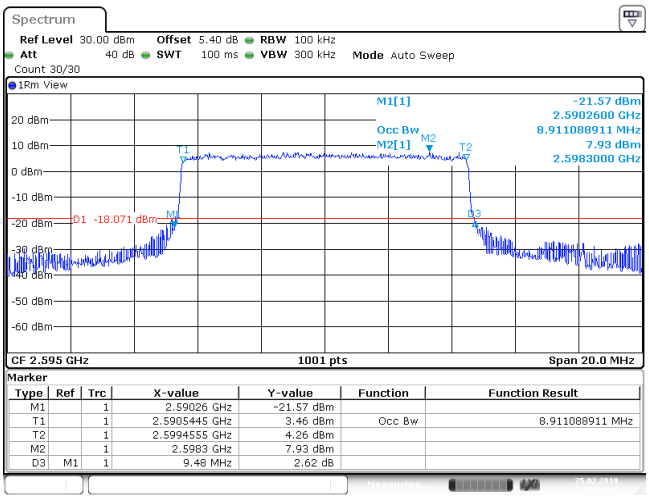

Band38_10MHz_QPSK_38200_50RB#0

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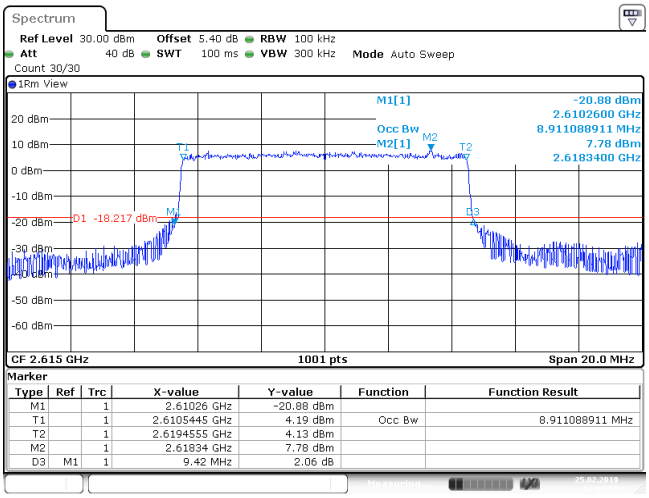

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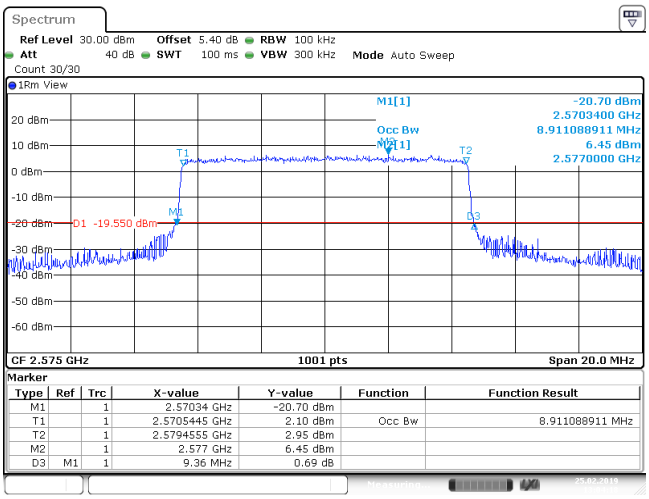

Band38_10MHz_16QAM_38000_50RB#0

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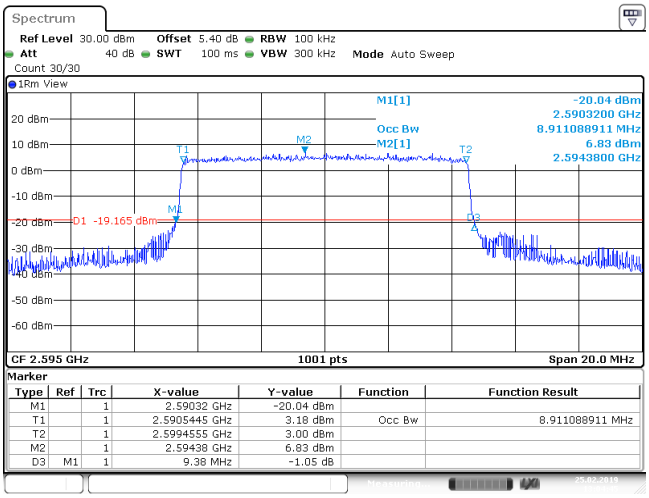

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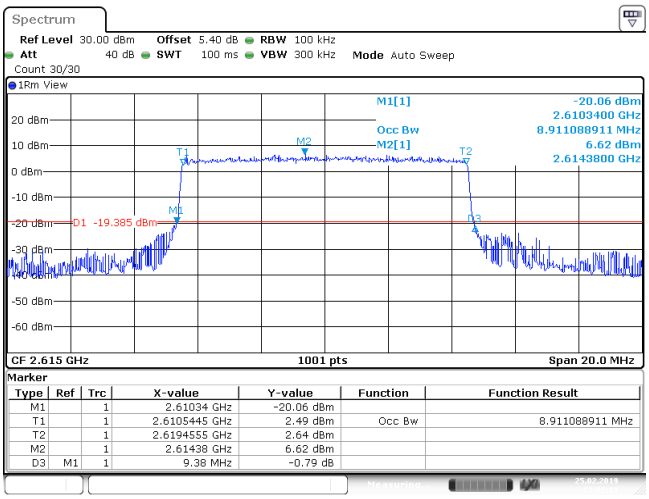

Band38_15MHz_QPSK_37825_75RB#0

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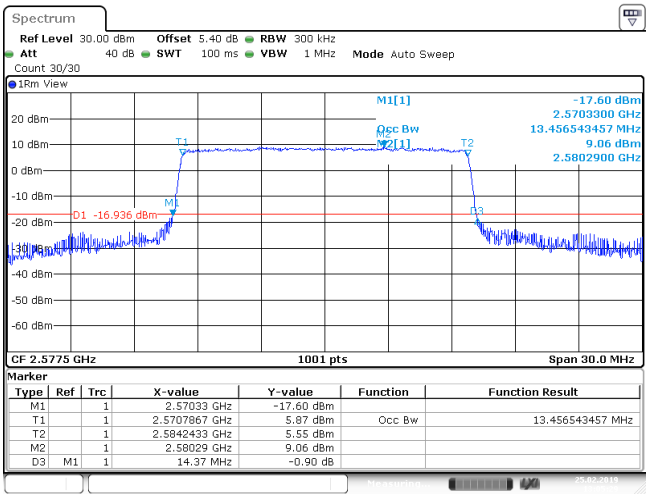

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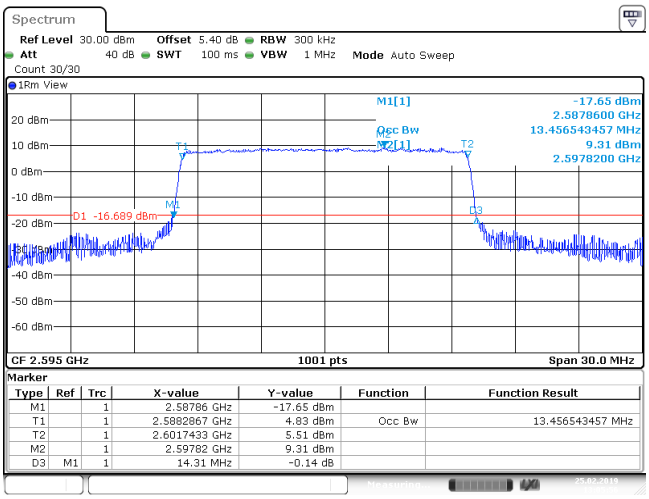

Band38_15MHz_QPSK_38175_75RB#0

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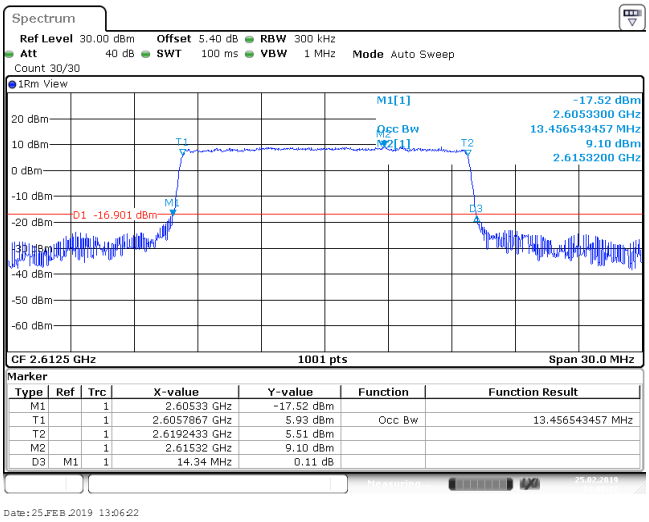

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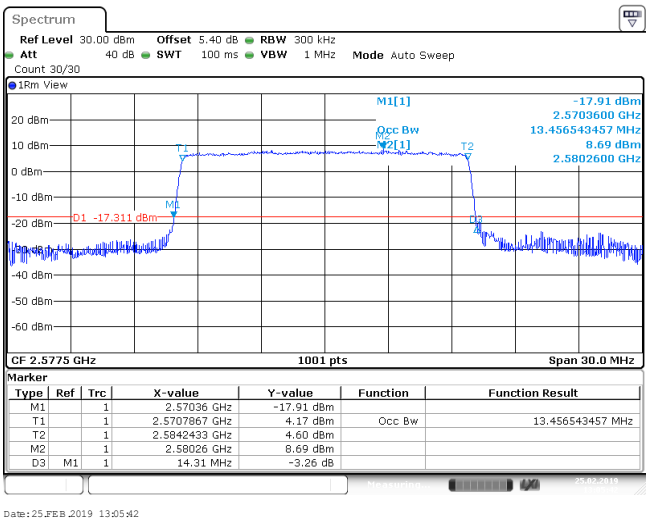

Band38_15MHz_16QAM_38000_75RB#0

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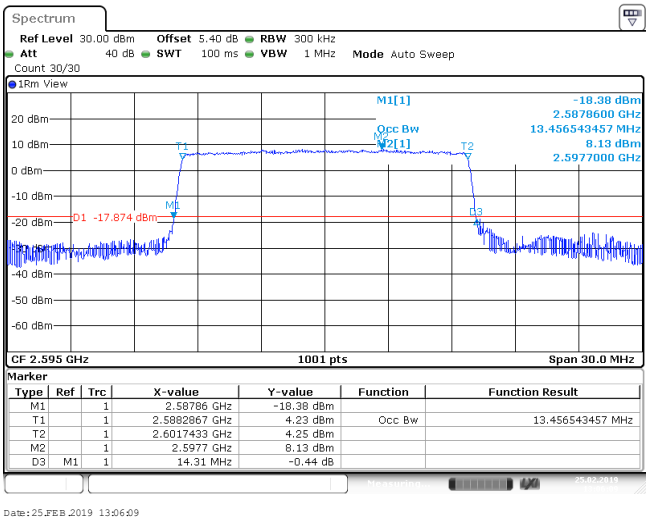

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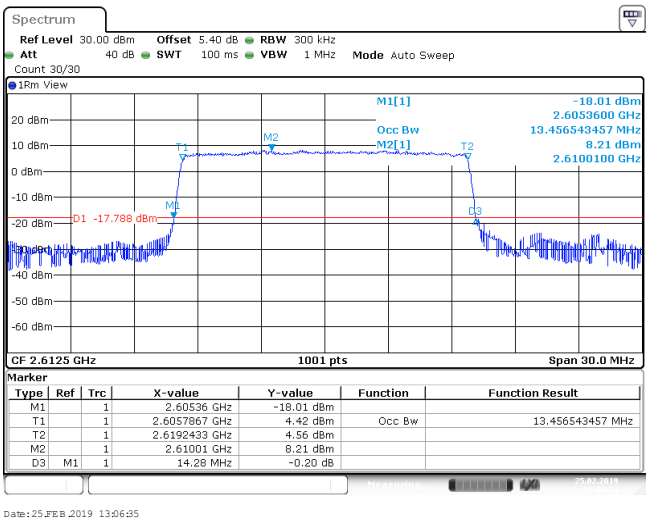

Band38_20MHz_QPSK_37850_100RB#0

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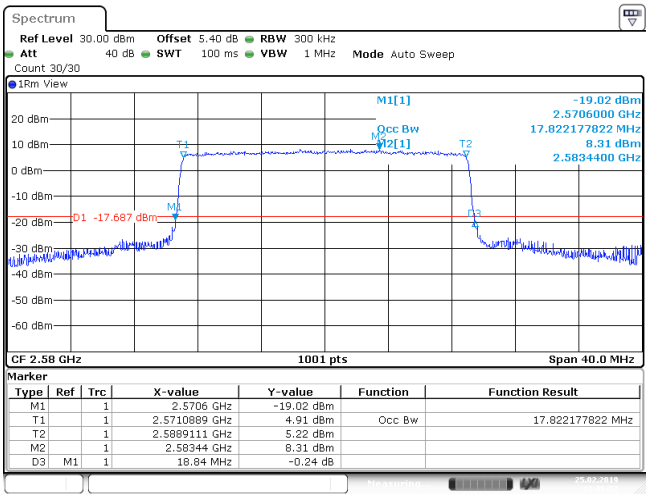

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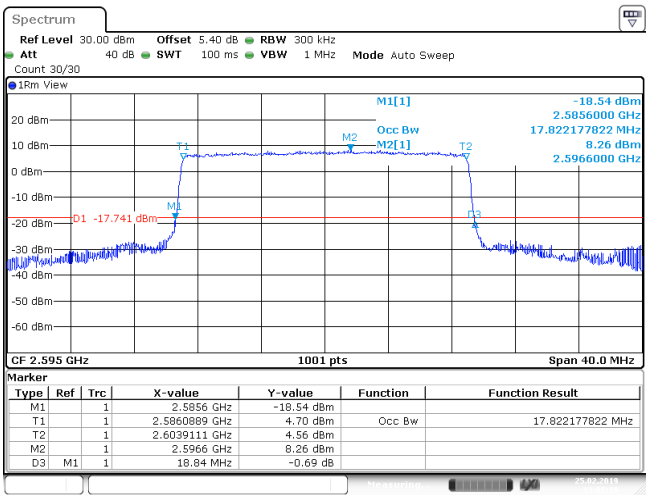

Band38_20MHz_QPSK_38150_100RB#0

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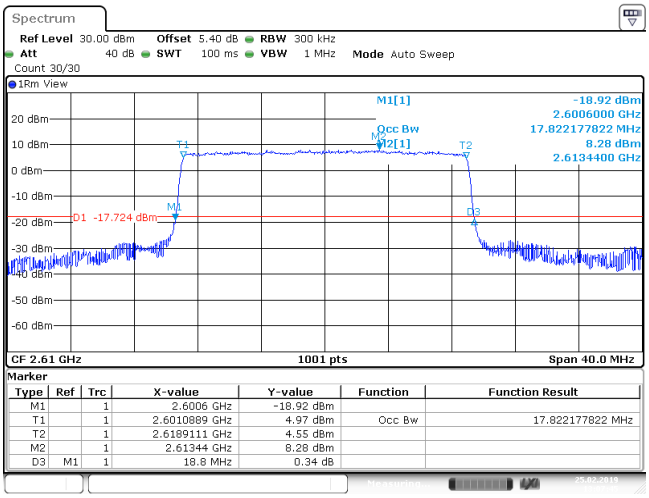
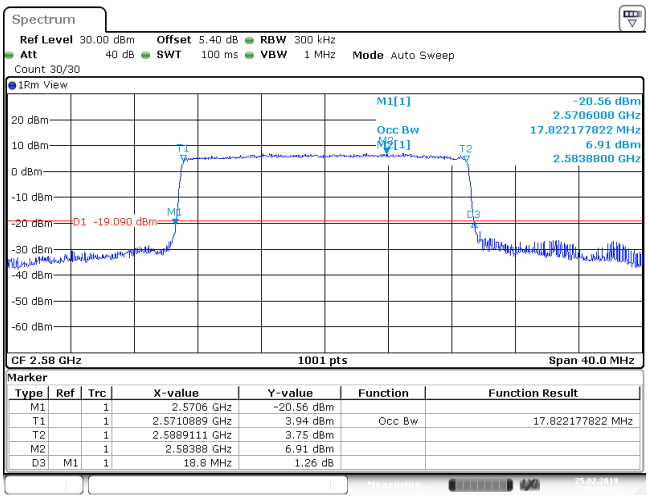


Band38_20MHz_16QAM_37850_100RB#0



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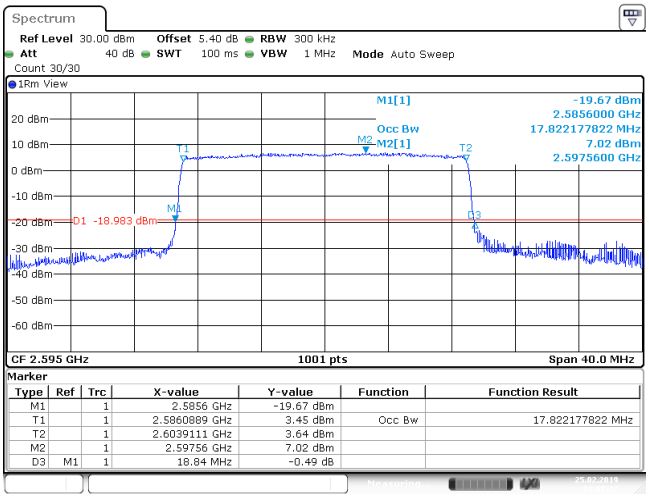

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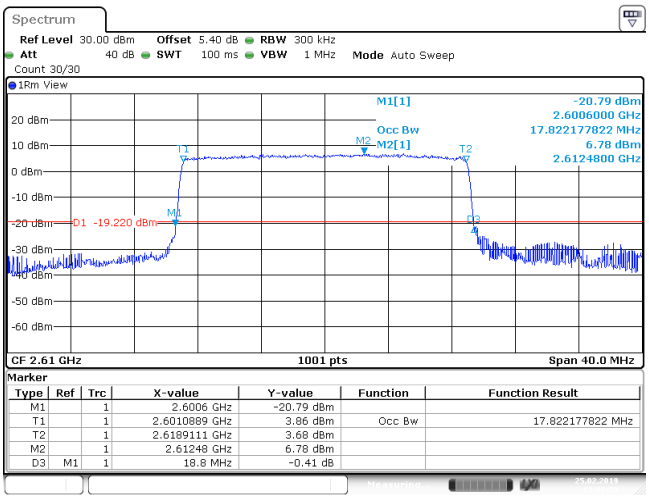

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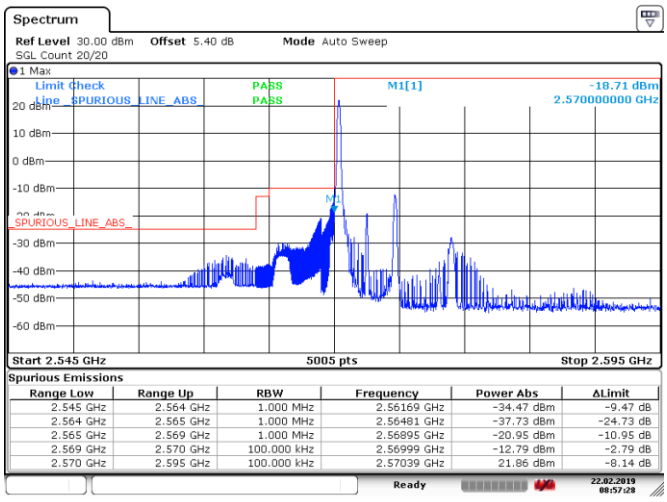
5. Band Edge Compliance

5.1. Test Plots

Band38_5MHz_QPSK_37775_1RB#0



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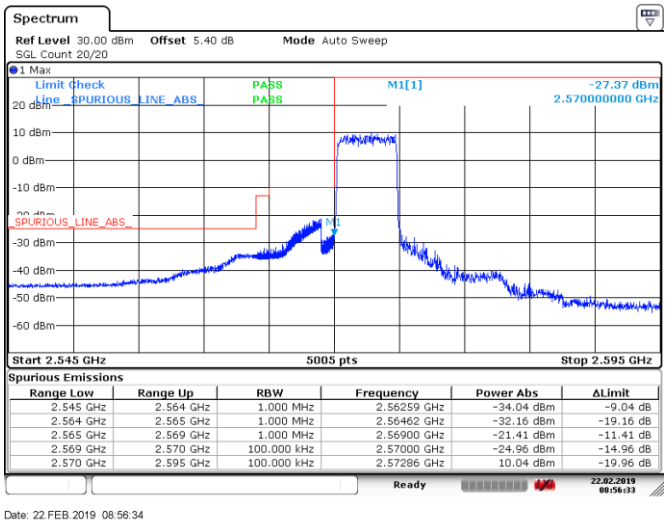

Band38_5MHz_QPSK_38225_1RB#24

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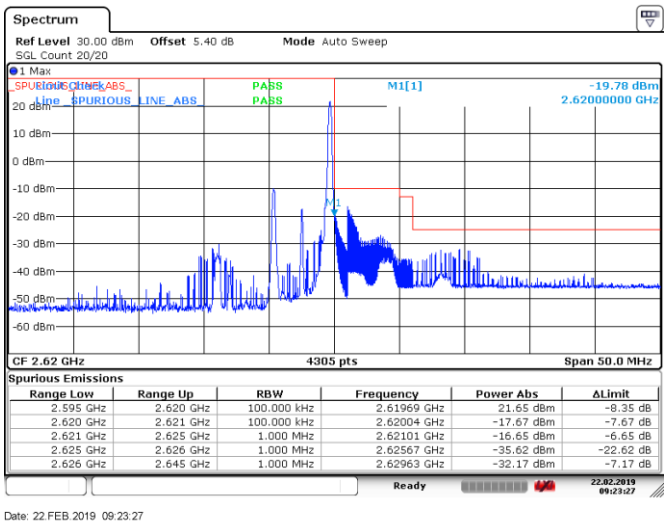

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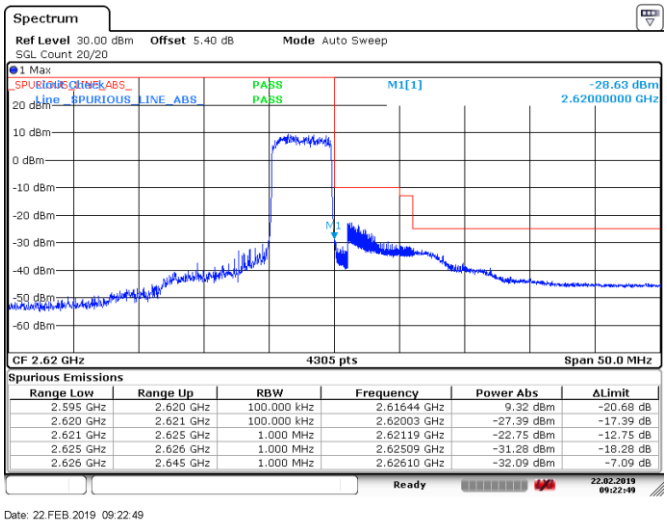

Band38_5MHz_16QAM_37775_1RB#0

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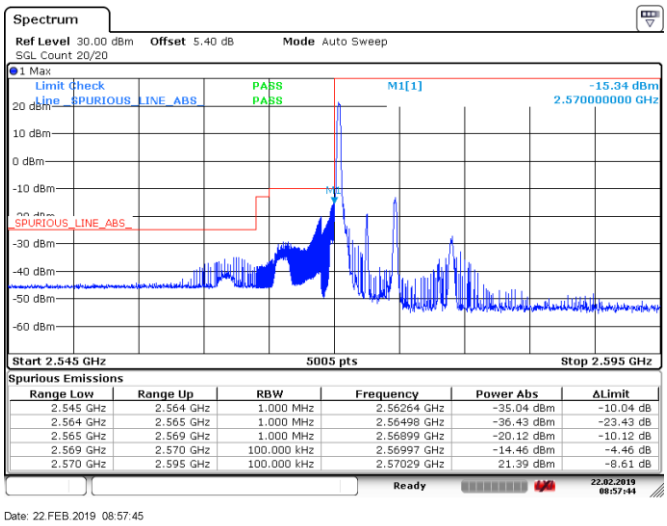
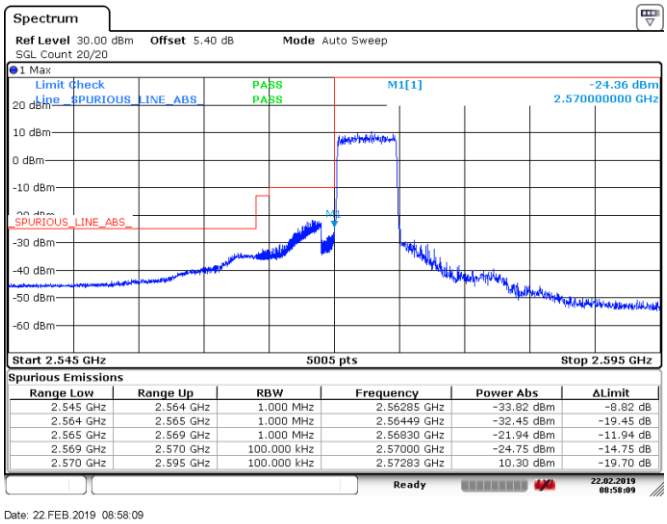


Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.545 GHz	2.564 GHz	1.000 MHz	2.56264 GHz	-35.04 dBm	-10.04 dB
2.564 GHz	2.565 GHz	1.000 MHz	2.56498 GHz	-36.43 dBm	-23.43 dB
2.565 GHz	2.569 GHz	1.000 MHz	2.56899 GHz	-20.12 dBm	-10.12 dB
2.569 GHz	2.570 GHz	100.000 kHz	2.56997 GHz	-14.46 dBm	-4.46 dB
2.570 GHz	2.595 GHz	100.000 kHz	2.57029 GHz	21.39 dBm	-8.61 dB

Band38_5MHz_16QAM_37775_25RB#0



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.545 GHz	2.564 GHz	1.000 MHz	2.56285 GHz	-33.82 dBm	-8.82 dB
2.564 GHz	2.565 GHz	1.000 MHz	2.56449 GHz	-32.45 dBm	-19.45 dB
2.565 GHz	2.569 GHz	1.000 MHz	2.56830 GHz	-21.94 dBm	-11.94 dB
2.569 GHz	2.570 GHz	100.000 kHz	2.57000 GHz	-24.75 dBm	-14.75 dB
2.570 GHz	2.595 GHz	100.000 kHz	2.57283 GHz	10.30 dBm	-19.70 dB

Band38_5MHz_16QAM_38225_1RB#24

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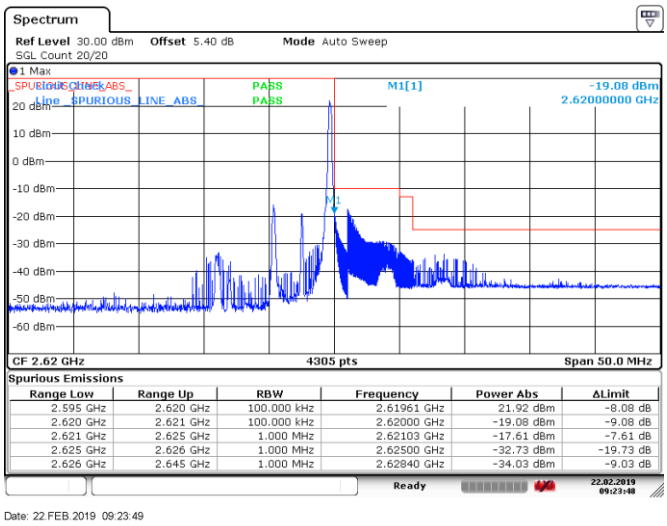
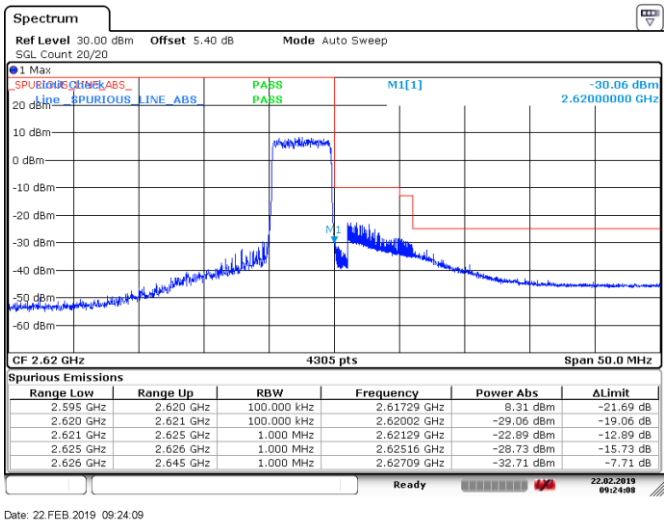


Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.595 GHz	2.620 GHz	100.000 kHz	2.61961 GHz	21.92 dBm	-8.08 dB
2.620 GHz	2.621 GHz	100.000 kHz	2.62000 GHz	-19.08 dBm	-9.08 dB
2.621 GHz	2.625 GHz	1.000 MHz	2.62103 GHz	-17.61 dBm	-7.61 dB
2.625 GHz	2.626 GHz	1.000 MHz	2.62500 GHz	-32.73 dBm	-19.73 dB
2.626 GHz	2.645 GHz	1.000 MHz	2.62840 GHz	-34.03 dBm	-9.03 dB

Band38_5MHz_16QAM_38225_25RB#0



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.595 GHz	2.620 GHz	100.000 kHz	2.61729 GHz	8.31 dBm	-21.69 dB
2.620 GHz	2.621 GHz	100.000 kHz	2.62002 GHz	-29.06 dBm	-19.06 dB
2.621 GHz	2.625 GHz	1.000 MHz	2.62129 GHz	-22.89 dBm	-12.89 dB
2.625 GHz	2.626 GHz	1.000 MHz	2.62516 GHz	-28.73 dBm	-15.73 dB
2.626 GHz	2.645 GHz	1.000 MHz	2.62709 GHz	-32.71 dBm	-7.71 dB

Band38_10MHz_QPSK_37800_1RB#0

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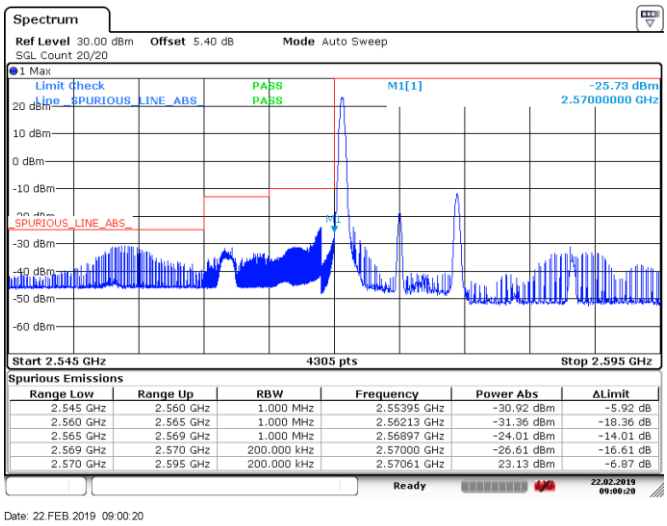
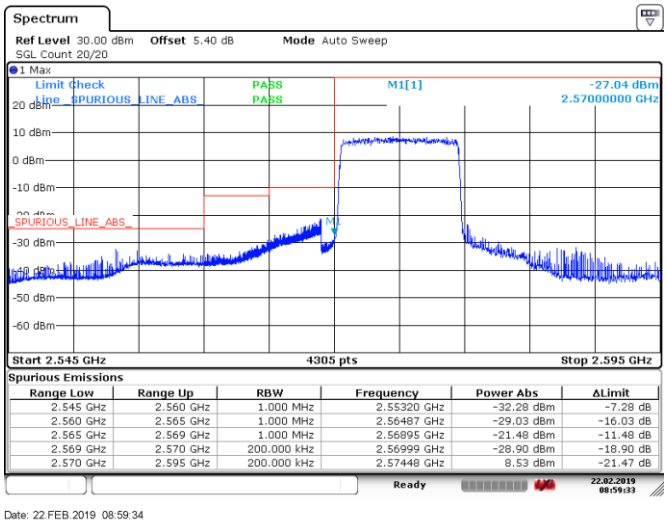


Band38_10MHz_QPSK_37800_50RB#0



Band38_10MHz_QPSK_38200_1RB#49

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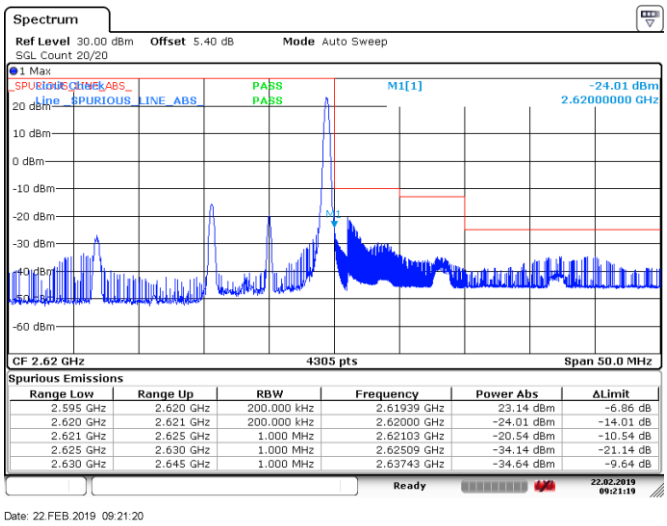

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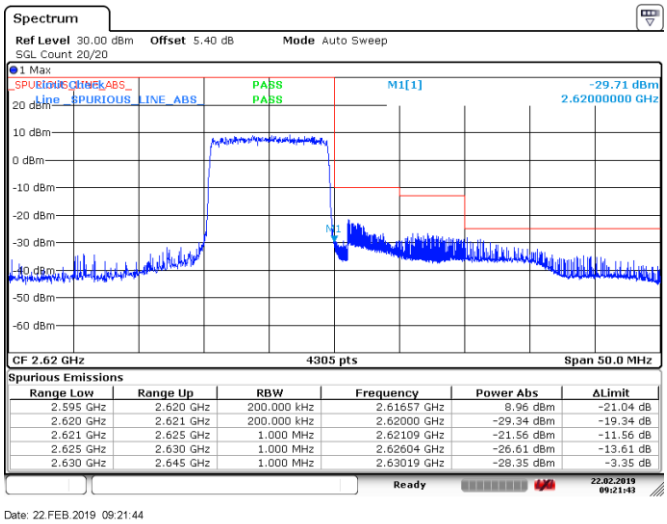

Band38_10MHz_16QAM_37800_1RB#0

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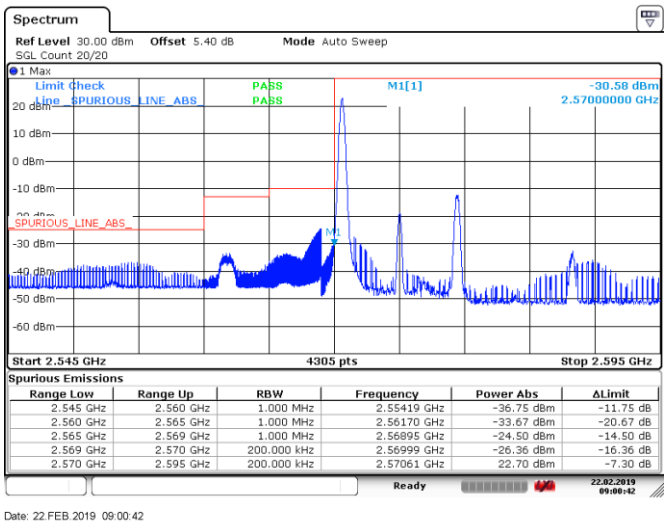
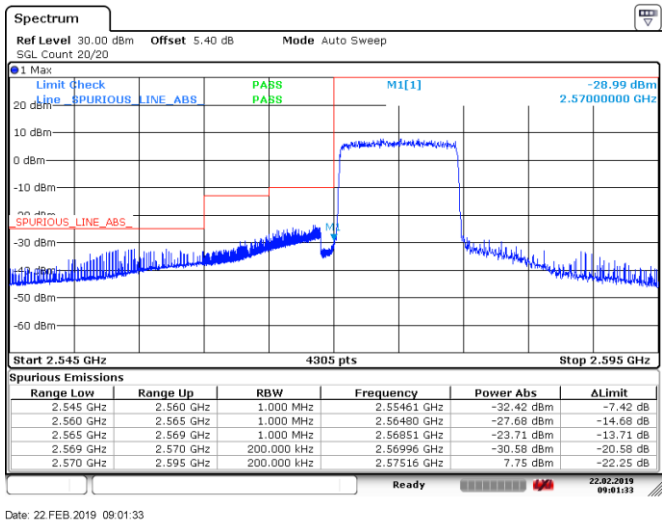


Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.545 GHz	2.560 GHz	1.000 MHz	2.55419 GHz	-36.75 dBm	-11.75 dB
2.560 GHz	2.565 GHz	1.000 MHz	2.56170 GHz	-33.67 dBm	-20.67 dB
2.565 GHz	2.569 GHz	1.000 MHz	2.56895 GHz	-24.50 dBm	-14.50 dB
2.569 GHz	2.570 GHz	200.000 kHz	2.56999 GHz	-26.36 dBm	-16.36 dB
2.570 GHz	2.595 GHz	200.000 kHz	2.57061 GHz	22.70 dBm	-7.30 dB

Band38_10MHz_16QAM_37800_50RB#0



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.545 GHz	2.560 GHz	1.000 MHz	2.55461 GHz	-32.42 dBm	-7.42 dB
2.560 GHz	2.565 GHz	1.000 MHz	2.56480 GHz	-27.68 dBm	-14.68 dB
2.565 GHz	2.569 GHz	1.000 MHz	2.56851 GHz	-23.71 dBm	-13.71 dB
2.569 GHz	2.570 GHz	200.000 kHz	2.56996 GHz	-30.58 dBm	-20.58 dB
2.570 GHz	2.595 GHz	200.000 kHz	2.57516 GHz	7.75 dBm	-22.25 dB

Band38_10MHz_16QAM_38200_1RB#49

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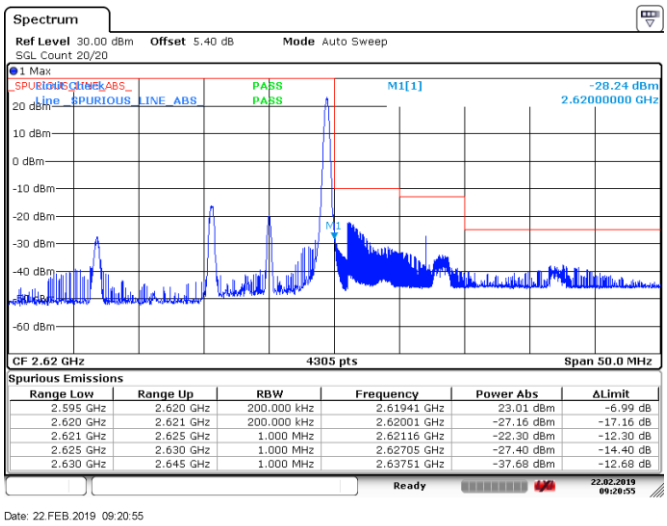
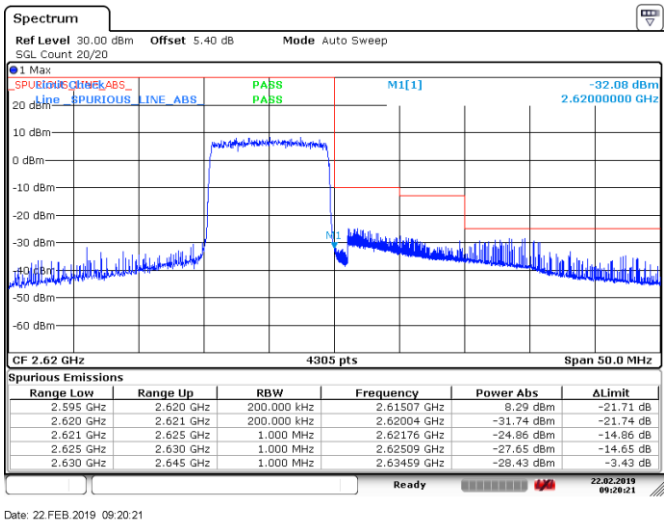


Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.595 GHz	2.620 GHz	200.000 kHz	2.61941 GHz	23.01 dBm	-6.99 dB
2.620 GHz	2.621 GHz	200.000 kHz	2.62001 GHz	-27.16 dBm	-17.16 dB
2.621 GHz	2.625 GHz	1.000 MHz	2.62116 GHz	-22.30 dBm	-12.30 dB
2.625 GHz	2.630 GHz	1.000 MHz	2.62705 GHz	-27.40 dBm	-14.40 dB
2.630 GHz	2.645 GHz	1.000 MHz	2.63751 GHz	-37.68 dBm	-12.68 dB

Band38_10MHz_16QAM_38200_50RB#0



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.595 GHz	2.620 GHz	200.000 kHz	2.61507 GHz	8.29 dBm	-21.71 dB
2.620 GHz	2.621 GHz	200.000 kHz	2.62004 GHz	-31.74 dBm	-21.74 dB
2.621 GHz	2.625 GHz	1.000 MHz	2.62176 GHz	-24.86 dBm	-14.86 dB
2.625 GHz	2.630 GHz	1.000 MHz	2.62509 GHz	-27.65 dBm	-14.65 dB
2.630 GHz	2.645 GHz	1.000 MHz	2.63459 GHz	-28.43 dBm	-3.43 dB

Band38_15MHz_QPSK_37825_1RB#0

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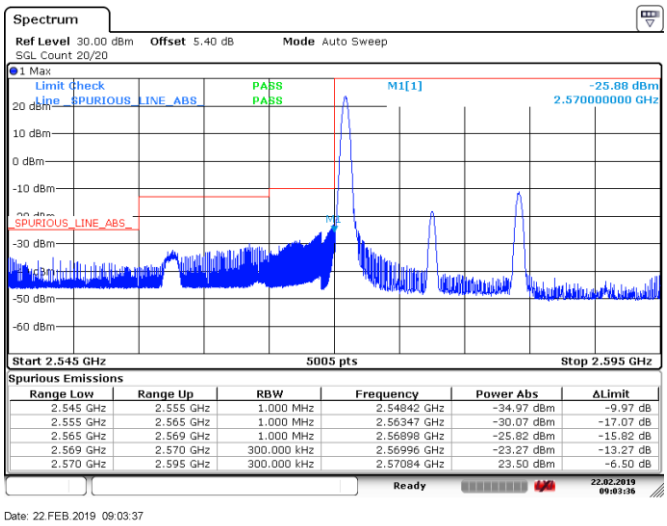
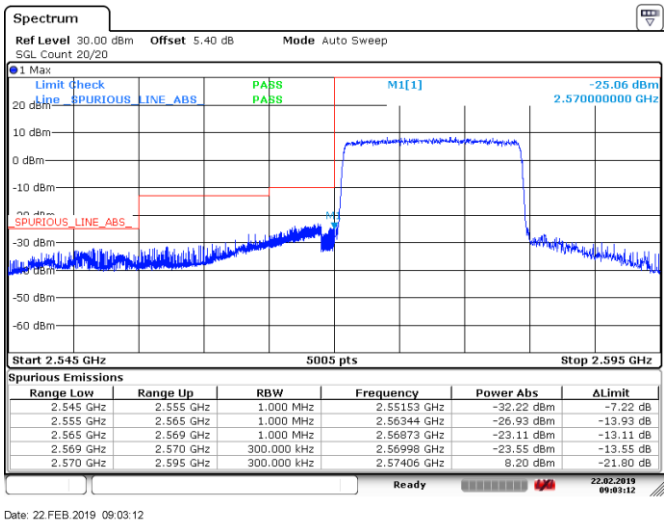


Band38_15MHz_QPSK_37825_75RB#0



Band38_15MHz_QPSK_38175_1RB#74

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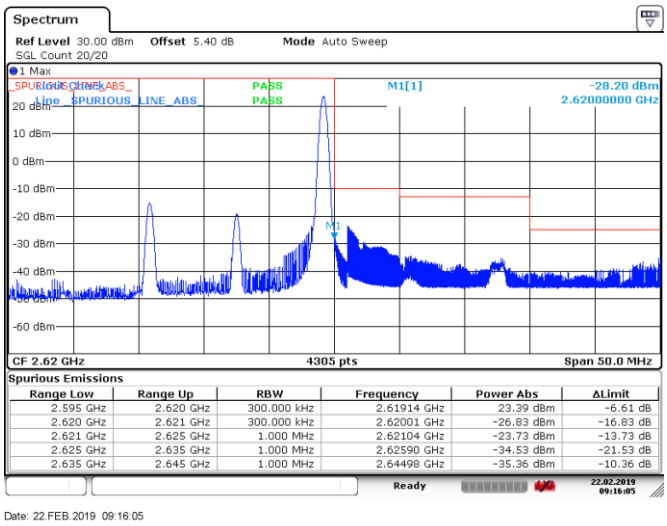
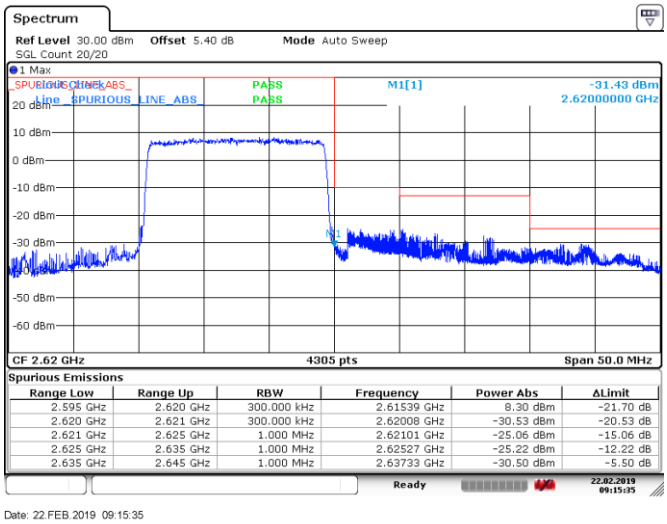


Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.595 GHz	2.620 GHz	300.000 kHz	2.61914 GHz	23.39 dBm	-6.61 dB
2.620 GHz	2.621 GHz	300.000 kHz	2.62001 GHz	-26.83 dBm	-16.83 dB
2.621 GHz	2.625 GHz	1.000 MHz	2.62104 GHz	-23.73 dBm	-13.73 dB
2.625 GHz	2.635 GHz	1.000 MHz	2.62590 GHz	-34.53 dBm	-21.53 dB
2.635 GHz	2.645 GHz	1.000 MHz	2.64498 GHz	-35.36 dBm	-10.36 dB

Band38_15MHz_QPSK_38175_75RB#0



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.595 GHz	2.620 GHz	300.000 kHz	2.61539 GHz	8.30 dBm	-21.70 dB
2.620 GHz	2.621 GHz	300.000 kHz	2.62008 GHz	-30.53 dBm	-20.53 dB
2.621 GHz	2.625 GHz	1.000 MHz	2.62101 GHz	-25.06 dBm	-15.06 dB
2.625 GHz	2.635 GHz	1.000 MHz	2.62527 GHz	-25.22 dBm	-12.22 dB
2.635 GHz	2.645 GHz	1.000 MHz	2.63733 GHz	-30.50 dBm	-5.50 dB

Band38_15MHz_16QAM_37825_1RB#0

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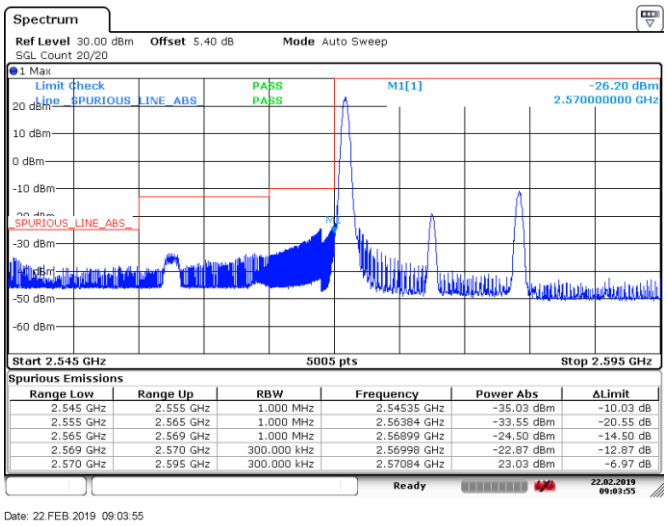
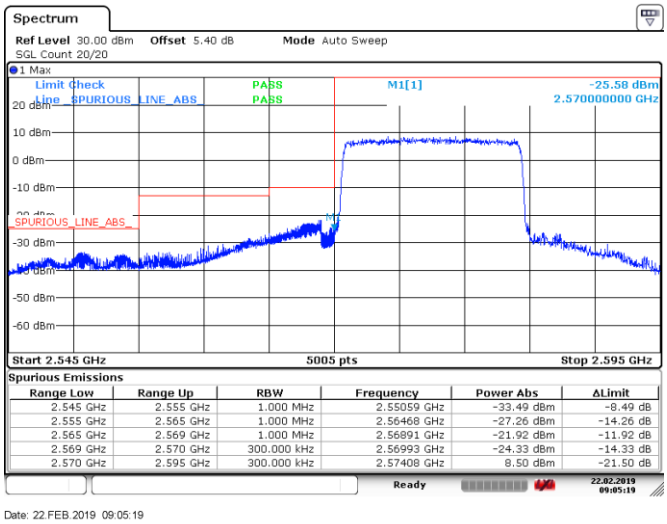


Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.545 GHz	2.555 GHz	1.000 MHz	2.54535 GHz	-35.03 dBm	-10.03 dB
2.555 GHz	2.565 GHz	1.000 MHz	2.56384 GHz	-33.55 dBm	-20.55 dB
2.565 GHz	2.569 GHz	1.000 MHz	2.56899 GHz	-24.50 dBm	-14.50 dB
2.569 GHz	2.570 GHz	300.000 kHz	2.56998 GHz	-22.87 dBm	-12.87 dB
2.570 GHz	2.595 GHz	300.000 kHz	2.57084 GHz	23.03 dBm	-6.97 dB

Band38_15MHz_16QAM_37825_75RB#0



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.545 GHz	2.555 GHz	1.000 MHz	2.55059 GHz	-33.49 dBm	-8.49 dB
2.555 GHz	2.565 GHz	1.000 MHz	2.56468 GHz	-27.26 dBm	-14.26 dB
2.565 GHz	2.569 GHz	1.000 MHz	2.56891 GHz	-21.92 dBm	-11.92 dB
2.569 GHz	2.570 GHz	300.000 kHz	2.56993 GHz	-24.33 dBm	-14.33 dB
2.570 GHz	2.595 GHz	300.000 kHz	2.57408 GHz	8.50 dBm	-21.50 dB

Band38_15MHz_16QAM_38175_1RB#74

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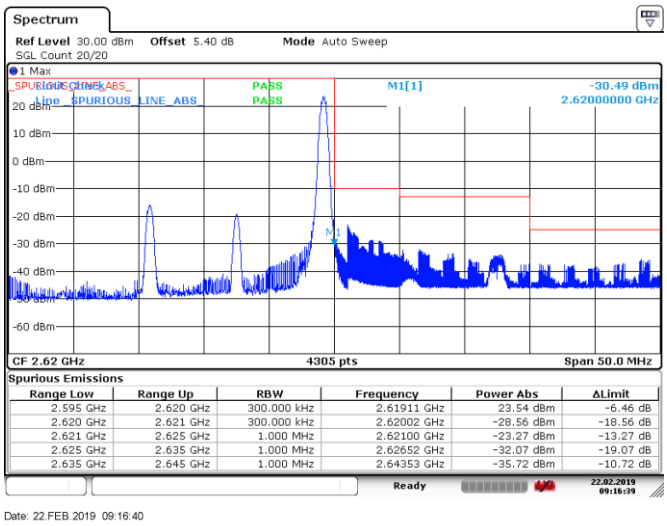
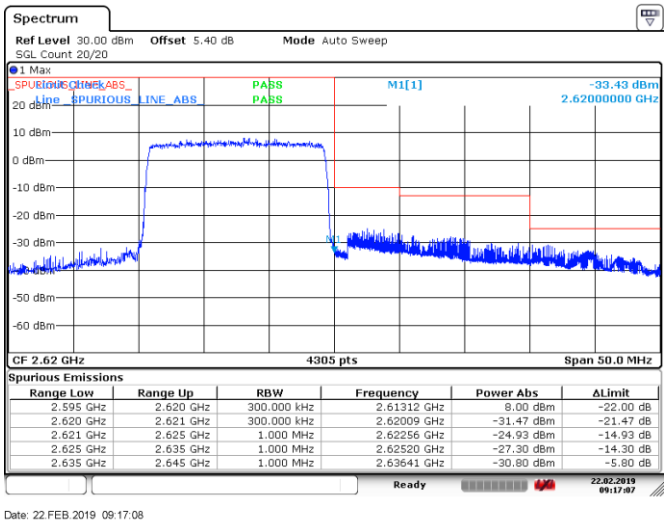


Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.595 GHz	2.620 GHz	300.000 kHz	2.61911 GHz	23.54 dBm	-6.46 dB
2.620 GHz	2.621 GHz	300.000 kHz	2.62002 GHz	-28.56 dBm	-18.56 dB
2.621 GHz	2.625 GHz	1.000 MHz	2.62100 GHz	-23.27 dBm	-13.27 dB
2.625 GHz	2.635 GHz	1.000 MHz	2.62652 GHz	-32.07 dBm	-19.07 dB
2.635 GHz	2.645 GHz	1.000 MHz	2.64353 GHz	-35.72 dBm	-10.72 dB

Band38_15MHz_16QAM_38175_75RB#0



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.595 GHz	2.620 GHz	300.000 kHz	2.61312 GHz	8.00 dBm	-22.00 dB
2.620 GHz	2.621 GHz	300.000 kHz	2.62009 GHz	-31.47 dBm	-21.47 dB
2.621 GHz	2.625 GHz	1.000 MHz	2.62256 GHz	-24.93 dBm	-14.93 dB
2.625 GHz	2.635 GHz	1.000 MHz	2.62520 GHz	-27.30 dBm	-14.30 dB
2.635 GHz	2.645 GHz	1.000 MHz	2.63641 GHz	-30.80 dBm	-5.80 dB

Band38_20MHz_QPSK_37850_1RB#0

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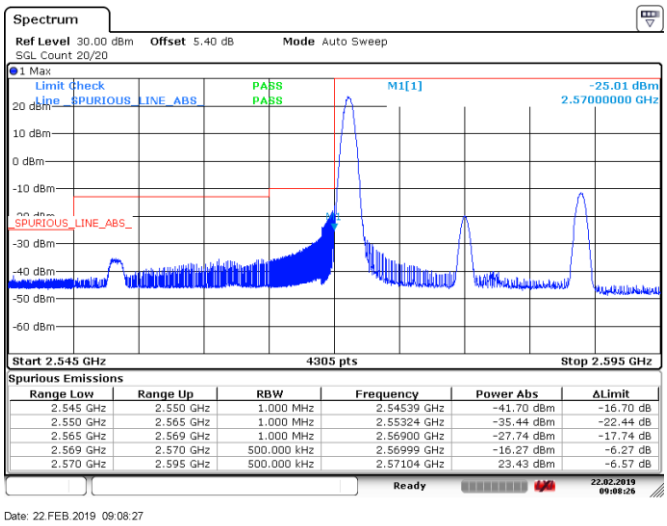
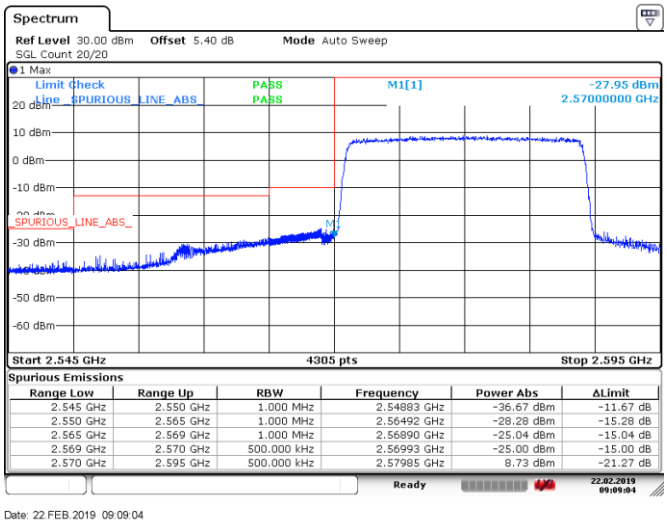


Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.545 GHz	2.550 GHz	1.000 MHz	2.54539 GHz	-41.70 dBm	-16.70 dB
2.550 GHz	2.565 GHz	1.000 MHz	2.55324 GHz	-35.44 dBm	-22.44 dB
2.565 GHz	2.569 GHz	1.000 MHz	2.56900 GHz	-27.74 dBm	-17.74 dB
2.569 GHz	2.570 GHz	500.000 kHz	2.56999 GHz	-16.27 dBm	-6.27 dB
2.570 GHz	2.595 GHz	500.000 kHz	2.57104 GHz	23.43 dBm	-6.57 dB

Band38_20MHz_QPSK_37850_100RB#0



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.545 GHz	2.550 GHz	1.000 MHz	2.54883 GHz	-36.67 dBm	-11.67 dB
2.550 GHz	2.565 GHz	1.000 MHz	2.56492 GHz	-28.28 dBm	-15.28 dB
2.565 GHz	2.569 GHz	1.000 MHz	2.56890 GHz	-25.04 dBm	-15.04 dB
2.569 GHz	2.570 GHz	500.000 kHz	2.56993 GHz	-25.00 dBm	-15.00 dB
2.570 GHz	2.595 GHz	500.000 kHz	2.57985 GHz	8.73 dBm	-21.27 dB

Band38_20MHz_QPSK_38150_1RB#99

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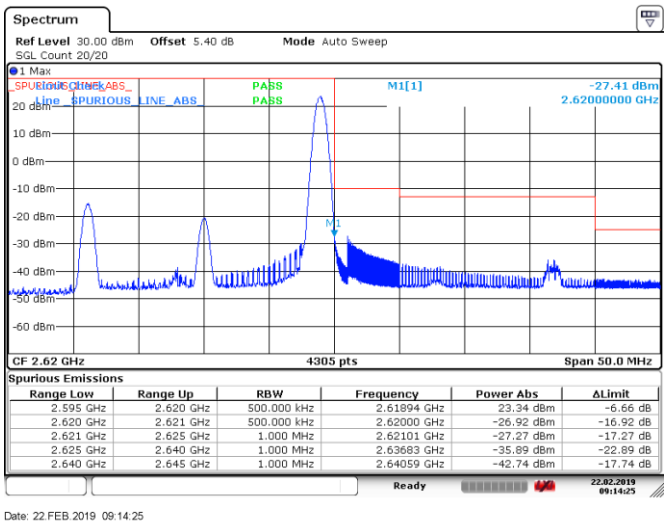
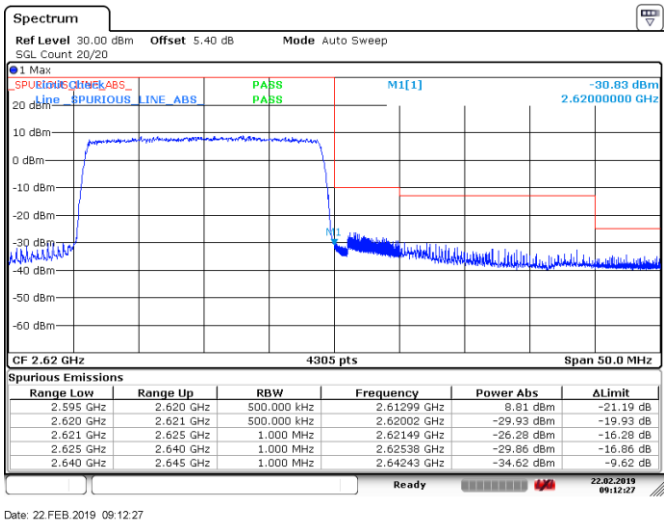


Band38_20MHz_QPSK_38150_100RB#0



Band38_20MHz_16QAM_37850_1RB#0

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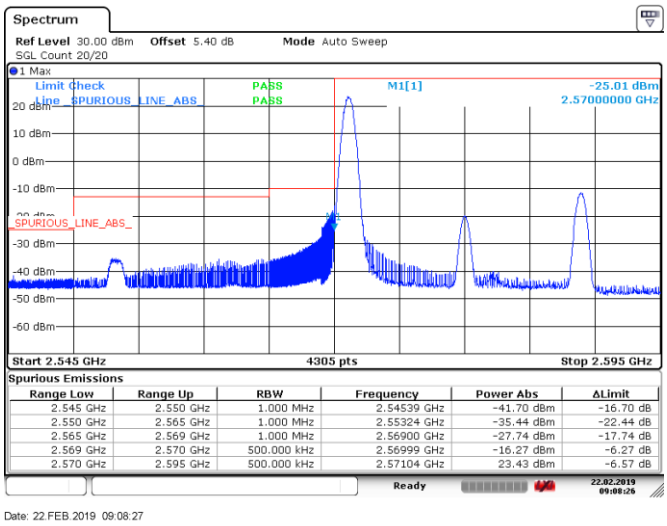
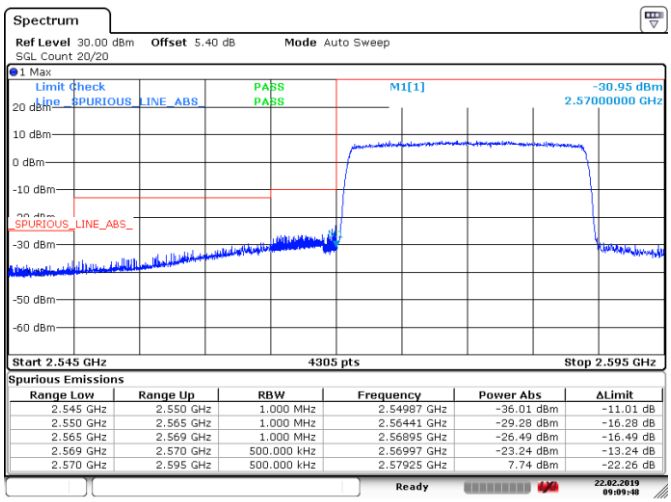


Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.545 GHz	2.550 GHz	1.000 MHz	2.54539 GHz	-41.70 dBm	-16.70 dB
2.550 GHz	2.565 GHz	1.000 MHz	2.55324 GHz	-35.44 dBm	-22.44 dB
2.565 GHz	2.569 GHz	1.000 MHz	2.56900 GHz	-27.74 dBm	-17.74 dB
2.569 GHz	2.570 GHz	500.000 kHz	2.56999 GHz	-16.27 dBm	-6.27 dB
2.570 GHz	2.595 GHz	500.000 kHz	2.57104 GHz	23.43 dBm	-6.57 dB

Band38_20MHz_16QAM_37850_100RB#0



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.545 GHz	2.550 GHz	1.000 MHz	2.54987 GHz	-36.01 dBm	-11.01 dB
2.550 GHz	2.565 GHz	1.000 MHz	2.56441 GHz	-29.28 dBm	-16.28 dB
2.565 GHz	2.569 GHz	1.000 MHz	2.56895 GHz	-26.49 dBm	-16.49 dB
2.569 GHz	2.570 GHz	500.000 kHz	2.56997 GHz	-23.24 dBm	-13.24 dB
2.570 GHz	2.595 GHz	500.000 kHz	2.57925 GHz	7.74 dBm	-22.26 dB

Band38_20MHz_16QAM_38150_1RB#99

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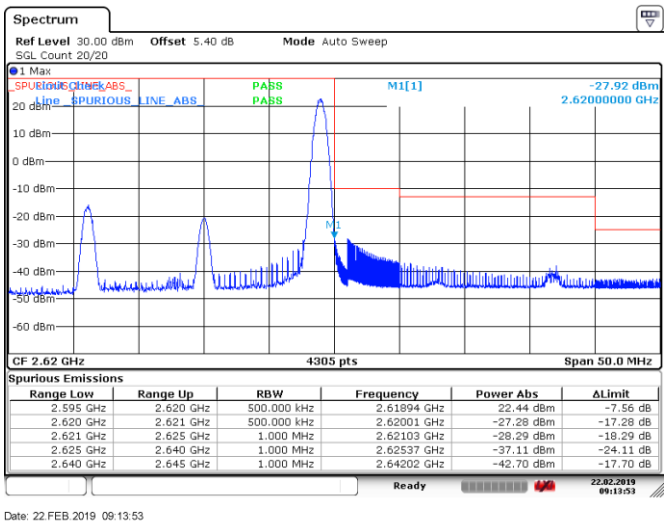
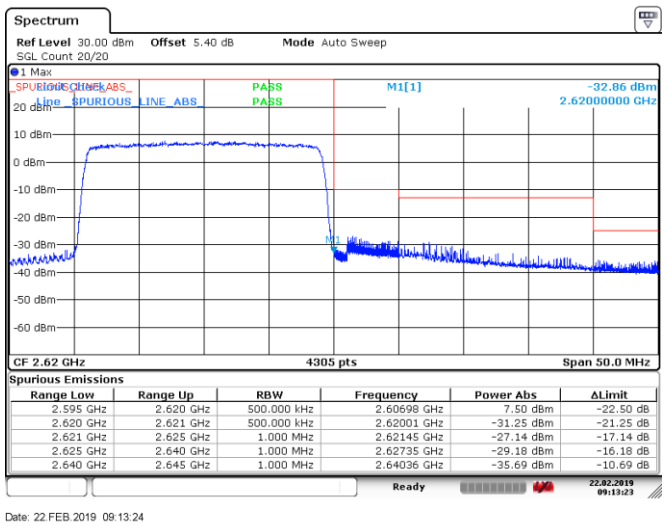


Band38_20MHz_16QAM_38150_100RB#0



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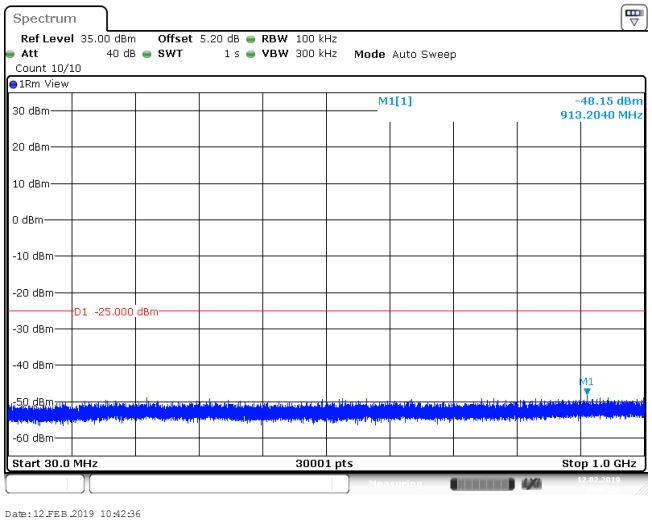
6. Spurious Emission at Antenna Terminal

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



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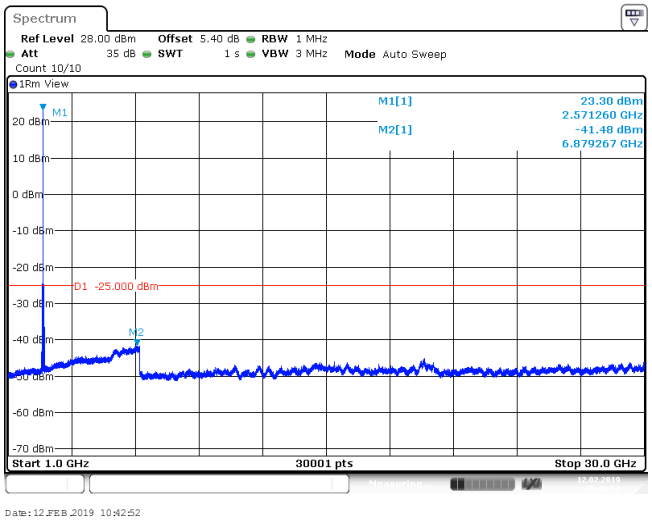

Band38_20MHz_QPSK_38000_1RB#0

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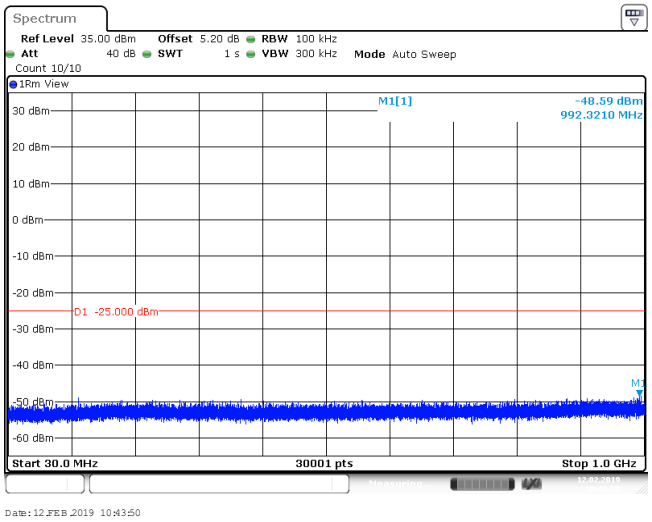

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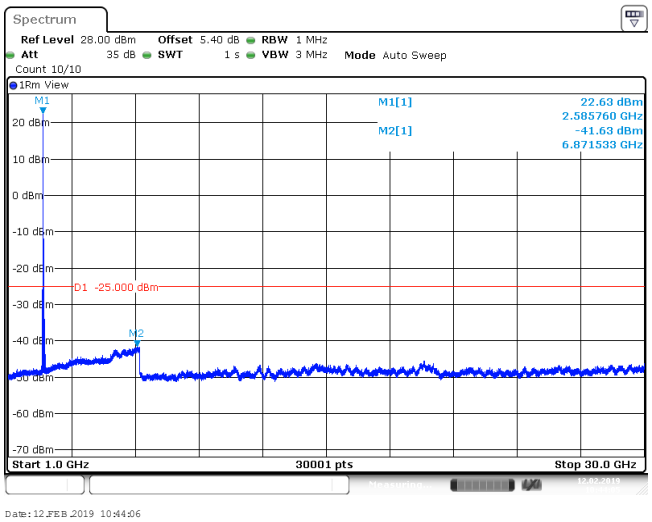

Band38_20MHz_QPSK_38150_1RB#0

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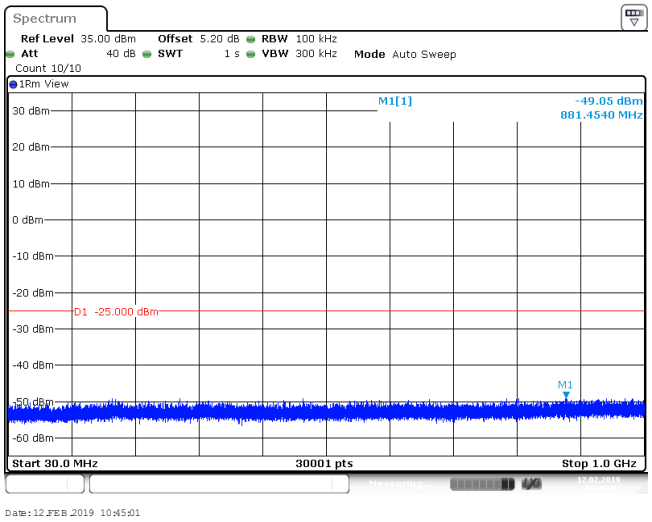

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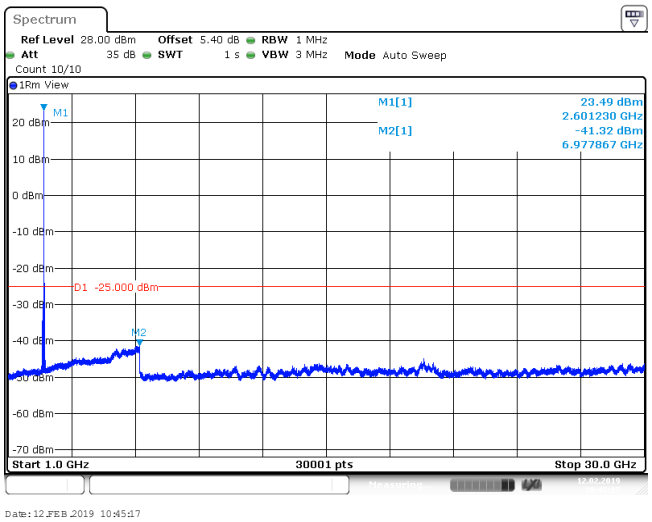

Band38_20MHz_16QAM_37850_1RB#0

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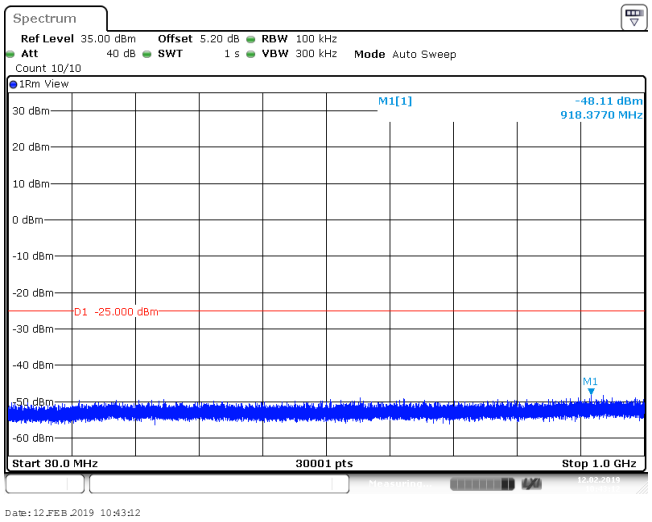
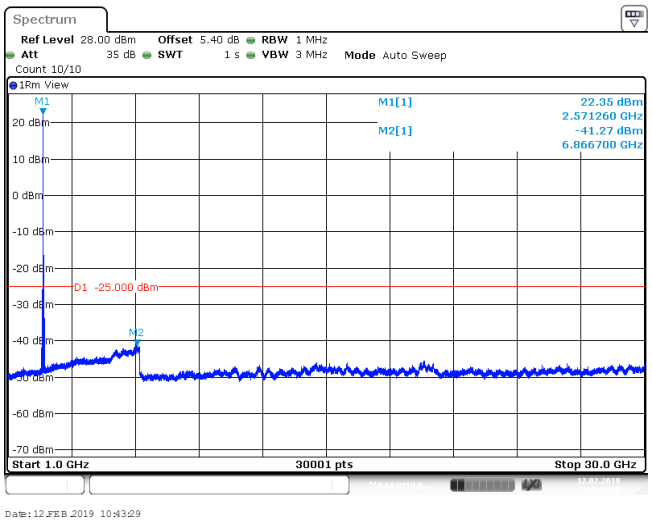


Band38_20MHz_16QAM_37850_1RB#0



Band38_20MHz_16QAM_38000_1RB#0

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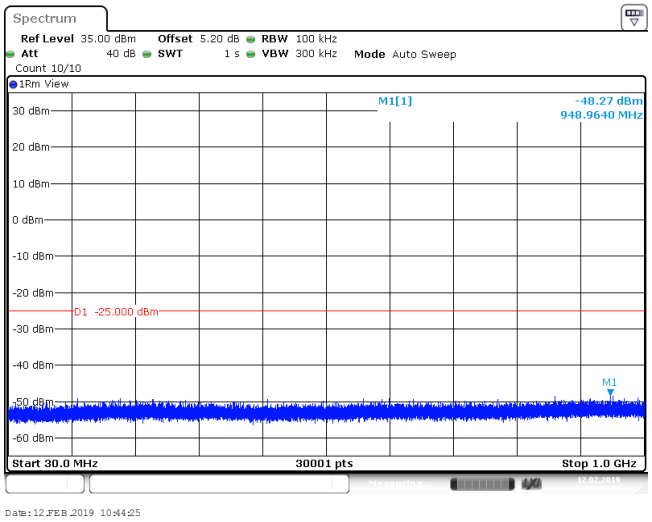

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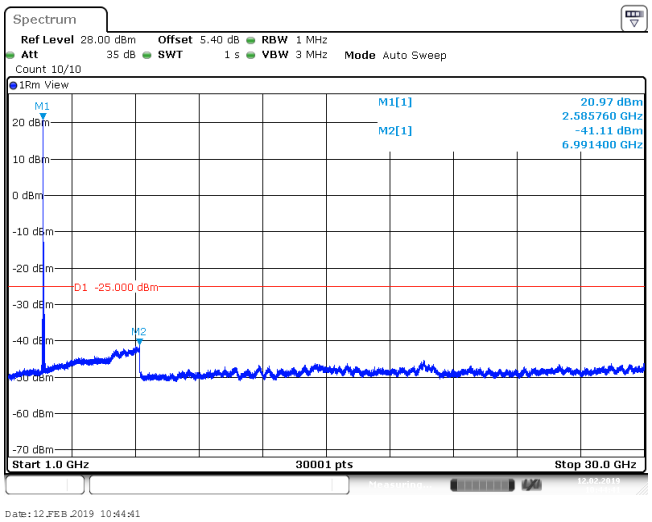

Band38_20MHz_16QAM_38150_1RB#0

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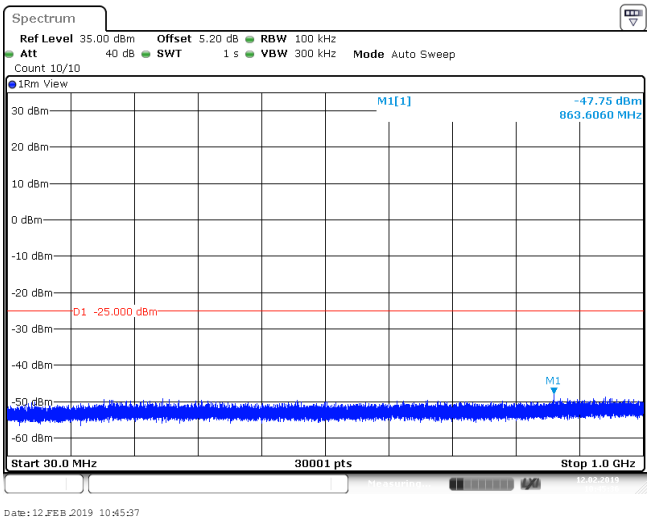
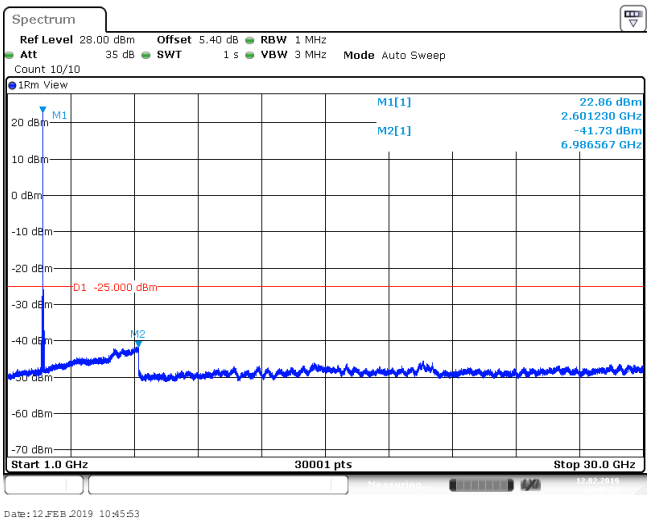


Band38_20MHz_16QAM_38150_1RB#0



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7. Field Strength of Spurious Radiation

7.1. Test BAND = LTE Band38

7.1.1. Test Mode =LTE/TM1 20MHz

7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
75.5923	-69.79	-25.00	44.79	Vertical
110.5625	-65.48	-25.00	40.48	Vertical
572.7906	-64.71	-25.00	39.71	Vertical
5172.0724	-45.51	-25.00	20.51	Vertical
10344.7448	-35.21	-25.00	10.21	Vertical
17990.9997	-33.49	-25.00	8.49	Vertical
40.9130	-64.00	-25.00	39.00	Horizontal
231.0911	-68.48	-25.00	43.48	Horizontal
642.7311	-63.62	-25.00	38.62	Horizontal
5172.0724	-50.32	-25.00	25.32	Horizontal
10344.7448	-44.32	-25.00	19.32	Horizontal
17994.9998	-37.75	-25.00	12.75	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
61.4781	-69.89	-25.00	44.89	Vertical
114.6367	-65.45	-25.00	40.45	Vertical
588.2144	-64.79	-25.00	39.79	Vertical
5142.0714	-44.83	-25.00	19.83	Vertical
10284.2428	-38.05	-25.00	13.05	Vertical
17988.4996	-33.15	-25.00	8.15	Vertical
45.4723	-64.19	-25.00	39.19	Horizontal
248.8914	-68.42	-25.00	43.42	Horizontal

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735.5648	-62.58	-25.00	37.58	Horizontal
5142.0714	-52.83	-25.00	27.83	Horizontal
10284.2428	-42.48	-25.00	17.48	Horizontal
16387.4462	-38.51	-25.00	13.51	Horizontal

7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
68.5109	-68.77	-25.00	43.77	Vertical
111.6296	-65.32	-25.00	40.32	Vertical
376.5498	-68.16	-25.00	43.16	Vertical
5202.0734	-45.24	-25.00	20.24	Vertical
10404.7468	-34.19	-25.00	9.19	Vertical
17982.9994	-33.42	-25.00	8.42	Vertical
38.3909	-64.52	-25.00	39.52	Horizontal
151.1591	-69.65	-25.00	44.65	Horizontal
601.0676	-63.27	-25.00	38.27	Horizontal
5202.0734	-52.39	-25.00	27.39	Horizontal
10404.2468	-38.37	-25.00	13.37	Horizontal
17996.9999	-38.08	-25.00	13.08	Horizontal

7.1.1.4. Spot check worse mode

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
55.4638	-68.88	-25.00	43.88	Vertical
113.4727	-64.28	-25.00	39.28	Vertical
229.4905	-66.84	-25.00	41.84	Vertical
5172.0724	-46.81	-25.00	21.81	Vertical
10344.2448	-37.23	-25.00	12.23	Vertical
17977.4993	-33.65	-25.00	8.65	Vertical
39.3125	-63.18	-25.00	38.18	Horizontal
150.6255	-66.37	-25.00	41.37	Horizontal

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246.4663	-67.30	-25.00	42.30	Horizontal
5172.0724	-50.09	-25.00	25.09	Horizontal
10344.2448	-47.49	-25.00	22.49	Horizontal
17999.0000	-38.38	-25.00	13.38	Horizontal

REMARK:

1) The disturbance above 12.75GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.
2) We have tested all modulation and all Bandwidth , but only the worst case data presented in this report.

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8. Frequency Stability

8.1. Frequency Vs Voltage

Voltage										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	VL	NT	-0.50	-0.000194	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VN	NT	-3.30	-0.001279	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VH	NT	-5.00	-0.001938	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VL	NT	-5.50	-0.002119	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	-0.60	-0.000231	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	-0.40	-0.000154	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VL	NT	-4.50	-0.001724	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VN	NT	-1.20	-0.000460	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VH	NT	-3.80	-0.001456	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VL	NT	-0.90	-0.000349	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VN	NT	-3.20	-0.001240	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VH	NT	1.70	0.000659	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VL	NT	-2.10	-0.000809	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VN	NT	-3.70	-0.001426	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VH	NT	-4.00	-0.001541	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VL	NT	-6.20	-0.002375	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VN	NT	-3.20	-0.001226	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VH	NT	-4.30	-0.001648	±2.5	PASS

8.2. Frequency Vs Temperature

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	-1.20	-0.000465	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	-20	-3.10	-0.001202	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	0	-5.10	-0.001977	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	10	-5.70	-0.002209	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	20	0.20	0.000078	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	30	0.00	0.000000	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	40	-4.50	-0.001744	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	50	-3.20	-0.001240	±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	-20	-7.40	-0.002852	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	-5.20	-0.002004	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	-5.60	-0.002158	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	0.00	0.000000	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	-3.00	-0.001156	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	-1.60	-0.000617	±2.5	PASS

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Band38	20MHz	QPSK	38000	100RB#0	NV	50	-0.70	-0.000270	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-30	-1.70	-0.000651	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-20	-4.90	-0.001877	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	0	-2.00	-0.000766	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	10	-5.30	-0.002031	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	20	-3.60	-0.001379	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	30	-0.80	-0.000307	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	40	0.20	0.000077	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	50	-4.50	-0.001724	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-30	-4.90	-0.001899	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-20	-1.10	-0.000426	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	0	-0.70	-0.000271	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	10	-4.20	-0.001628	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	20	-2.30	-0.000891	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	30	-4.80	-0.001860	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	40	-1.80	-0.000698	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	50	-2.80	-0.001085	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-30	-1.70	-0.000655	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-20	0.10	0.000039	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	0	-2.70	-0.001040	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	10	-4.10	-0.001580	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	20	-3.80	-0.001464	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	30	-4.80	-0.001850	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	40	-4.40	-0.001696	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	50	-3.00	-0.001156	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-30	-1.80	-0.000690	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-20	-5.00	-0.001916	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	0	-5.10	-0.001954	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	10	-1.50	-0.000575	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	20	-3.50	-0.001341	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	30	-2.30	-0.000881	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	40	-7.10	-0.002720	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	50	-3.40	-0.001303	±2.5	PASS

The End

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