



Appendix B

E-UTRA Band 38



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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth h	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	limit (dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	23.07	23.07	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#12	23.16	23.16	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#24	23.13	23.13	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#6	22.26	22.26	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#0	22.36	22.36	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#13	22.29	22.29	33.00	PASS
Band38	5MHz	QPSK	37775	25RB#0	22.25	22.25	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#24	23.05	23.05	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#0	23.19	23.19	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#12	22.96	22.96	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#0	22.20	22.20	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#6	22.34	22.34	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#13	22.26	22.26	33.00	PASS
Band38	5MHz	QPSK	38000	25RB#0	22.24	22.24	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#12	23.01	23.01	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#0	23.15	23.15	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#24	23.14	23.14	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#13	22.35	22.35	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#6	22.43	22.43	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#0	22.39	22.39	33.00	PASS
Band38	5MHz	QPSK	38225	25RB#0	22.31	22.31	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#0	22.19	22.19	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#24	22.34	22.34	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#12	22.13	22.13	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#13	21.22	21.22	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#6	21.16	21.16	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#0	21.22	21.22	33.00	PASS



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Band38	5MHz	16QAM	37775	25RB#0	21.27	21.27	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#0	22.23	22.23	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#12	22.30	22.30	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#24	22.21	22.21	33.00	PASS
Band38	5MHz	16QAM	38000	12RB#0	21.26	21.26	33.00	PASS
Band38	5MHz	16QAM	38000	12RB#6	21.30	21.30	33.00	PASS
Band38	5MHz	16QAM	38000	12RB#13	21.16	21.16	33.00	PASS
Band38	5MHz	16QAM	38000	25RB#0	21.31	21.31	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#0	22.25	22.25	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#24	22.34	22.34	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#12	22.25	22.25	33.00	PASS
Band38	5MHz	16QAM	38225	12RB#0	21.30	21.30	33.00	PASS
Band38	5MHz	16QAM	38225	12RB#6	21.36	21.36	33.00	PASS
Band38	5MHz	16QAM	38225	12RB#13	21.31	21.31	33.00	PASS
Band38	5MHz	16QAM	38225	25RB#0	21.33	21.33	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#49	23.19	23.19	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#24	23.09	23.09	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#0	23.19	23.19	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#12	22.36	22.36	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#0	22.30	22.30	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#25	22.25	22.25	33.00	PASS
Band38	10MHz	QPSK	37800	50RB#0	22.26	22.26	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#24	22.27	22.27	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#49	22.25	22.25	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#0	22.31	22.31	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#25	22.28	22.28	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#0	22.30	22.30	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#12	21.44	21.44	33.00	PASS
Band38	10MHz	QPSK	38000	50RB#0	21.28	21.28	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#49	22.38	22.38	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#24	22.29	22.29	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#0	22.34	22.34	33.00	PASS
Band38	10MHz	QPSK	38200	25RB#25	22.25	22.25	33.00	PASS



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Band38	10MHz	QPSK	38200	25RB#0	22.36	22.36	33.00	PASS
Band38	10MHz	QPSK	38200	25RB#12	21.43	21.43	33.00	PASS
Band38	10MHz	QPSK	38200	50RB#0	21.30	21.30	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#0	22.31	22.31	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#24	22.32	22.32	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#49	22.18	22.18	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#12	21.23	21.23	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#0	21.23	21.23	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#25	21.14	21.14	33.00	PASS
Band38	10MHz	16QAM	37800	50RB#0	21.13	21.13	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#0	21.31	21.31	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#49	21.25	21.25	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#24	22.15	22.15	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#0	21.21	21.21	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#25	21.15	21.15	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#12	21.10	21.10	33.00	PASS
Band38	10MHz	16QAM	38000	50RB#0	21.08	21.08	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#0	21.34	21.34	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#49	21.32	21.32	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#24	22.34	22.34	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#0	21.13	21.13	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#12	21.30	21.30	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#25	21.25	21.25	33.00	PASS
Band38	10MHz	16QAM	38200	50RB#0	21.23	21.23	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#74	23.14	23.14	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#38	23.22	23.22	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#0	23.08	23.08	33.00	PASS
Band38	15MHz	QPSK	37825	36RB#39	22.30	22.30	33.00	PASS
Band38	15MHz	QPSK	37825	36RB#18	22.36	22.36	33.00	PASS
Band38	15MHz	QPSK	37825	36RB#0	22.35	22.35	33.00	PASS
Band38	15MHz	QPSK	37825	75RB#0	22.23	22.23	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#0	23.12	23.12	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#38	23.23	23.23	33.00	PASS



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Band38	15MHz	QPSK	38000	1RB#74	23.14	23.14	33.00	PASS
Band38	15MHz	QPSK	38000	36RB#0	22.26	22.26	33.00	PASS
Band38	15MHz	QPSK	38000	36RB#18	22.17	22.17	33.00	PASS
Band38	15MHz	QPSK	38000	36RB#39	22.27	22.27	33.00	PASS
Band38	15MHz	QPSK	38000	75RB#0	22.28	22.28	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#0	23.09	23.09	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#38	23.19	23.19	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#74	23.13	23.13	33.00	PASS
Band38	15MHz	QPSK	38175	36RB#0	22.41	22.41	33.00	PASS
Band38	15MHz	QPSK	38175	36RB#18	22.44	22.44	33.00	PASS
Band38	15MHz	QPSK	38175	36RB#39	22.27	22.27	33.00	PASS
Band38	15MHz	QPSK	38175	75RB#0	22.21	22.21	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#38	22.24	22.24	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#0	22.33	22.33	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#74	22.27	22.27	33.00	PASS
Band38	15MHz	16QAM	37825	36RB#0	21.23	21.23	33.00	PASS
Band38	15MHz	16QAM	37825	36RB#39	21.26	21.26	33.00	PASS
Band38	15MHz	16QAM	37825	36RB#18	21.23	21.23	33.00	PASS
Band38	15MHz	16QAM	37825	75RB#0	21.32	21.32	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#38	22.15	22.15	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#74	22.27	22.27	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#0	22.14	22.14	33.00	PASS
Band38	15MHz	16QAM	38000	36RB#0	21.25	21.25	33.00	PASS
Band38	15MHz	16QAM	38000	36RB#18	21.20	21.20	33.00	PASS
Band38	15MHz	16QAM	38000	36RB#39	21.25	21.25	33.00	PASS
Band38	15MHz	16QAM	38000	75RB#0	21.29	21.29	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#0	22.19	22.19	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#38	22.31	22.31	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#74	22.21	22.21	33.00	PASS
Band38	15MHz	16QAM	38175	36RB#0	21.22	21.22	33.00	PASS
Band38	15MHz	16QAM	38175	36RB#18	21.25	21.25	33.00	PASS
Band38	15MHz	16QAM	38175	36RB#39	21.15	21.15	33.00	PASS
Band38	15MHz	16QAM	38175	75RB#0	21.22	21.22	33.00	PASS



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Band38	20MHz	QPSK	37850	1RB#0	23.01	23.01	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#49	23.41	23.41	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#99	23.03	23.03	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#25	22.24	22.24	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#0	22.26	22.26	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#50	22.13	22.13	33.00	PASS
Band38	20MHz	QPSK	37850	100RB#0	22.19	22.19	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#99	23.13	23.13	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#0	23.34	23.34	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#49	23.01	23.01	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#0	22.31	22.31	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#25	22.28	22.28	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#50	22.18	22.18	33.00	PASS
Band38	20MHz	QPSK	38000	100RB#0	22.32	22.32	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#49	23.06	23.06	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#0	23.43	23.43	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#99	23.03	23.03	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#25	22.24	22.24	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#0	22.28	22.28	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#50	22.22	22.22	33.00	PASS
Band38	20MHz	QPSK	38150	100RB#0	22.33	22.33	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#0	22.87	22.87	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#49	22.36	22.36	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#99	22.94	22.94	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#0	21.10	21.10	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#25	21.33	21.33	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#50	21.22	21.22	33.00	PASS
Band38	20MHz	16QAM	37850	100RB#0	21.16	21.16	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#0	22.93	22.93	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#99	22.48	22.48	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#49	22.93	22.93	33.00	PASS
Band38	20MHz	16QAM	38000	50RB#0	21.25	21.25	33.00	PASS
Band38	20MHz	16QAM	38000	50RB#25	21.43	21.43	33.00	PASS



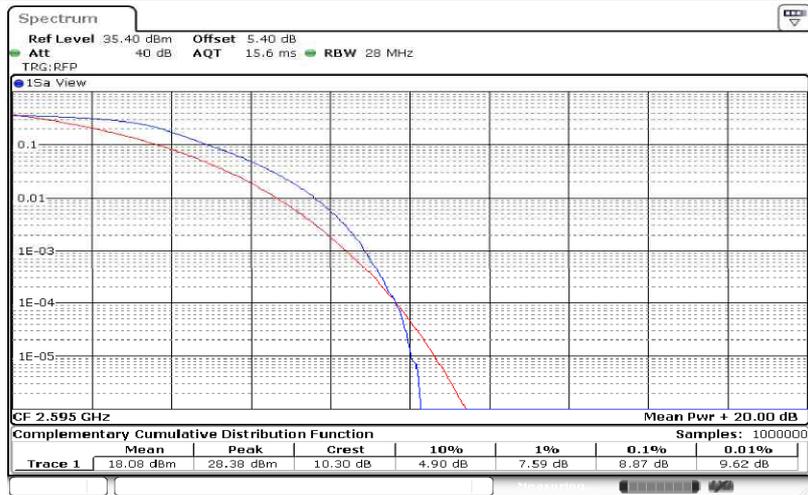
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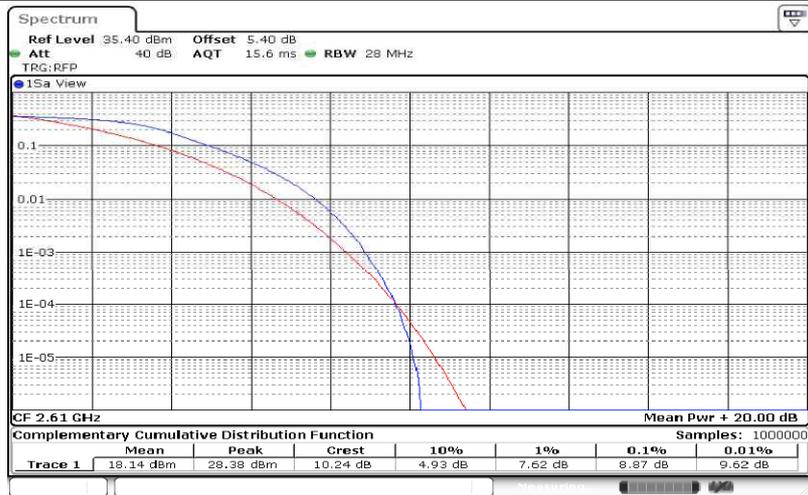


Band38-20MHz-QPSK-38000-100RB#0



Date: 3 JUN 2020 16:28:44

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



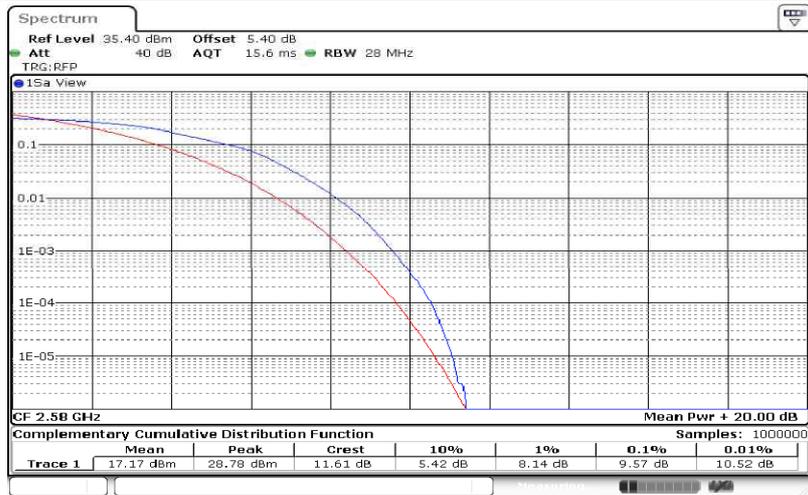
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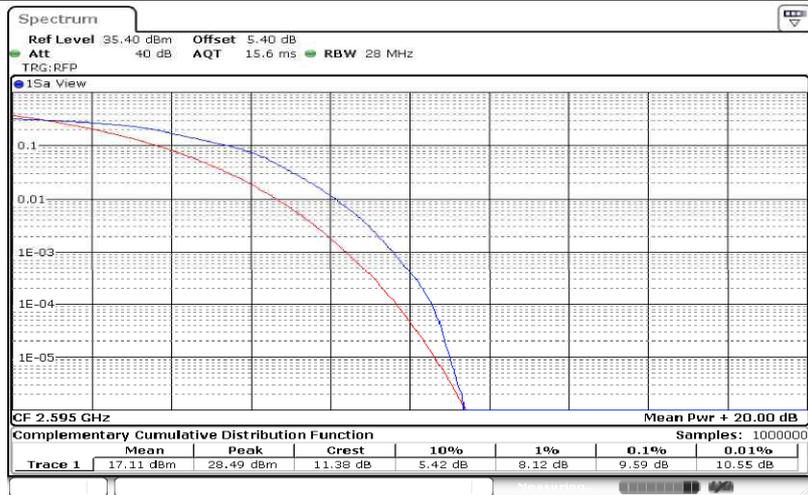


Band38-20MHz-16QAM-37850-100RB#0



Date: 3 JUN 2020 16:28:33

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



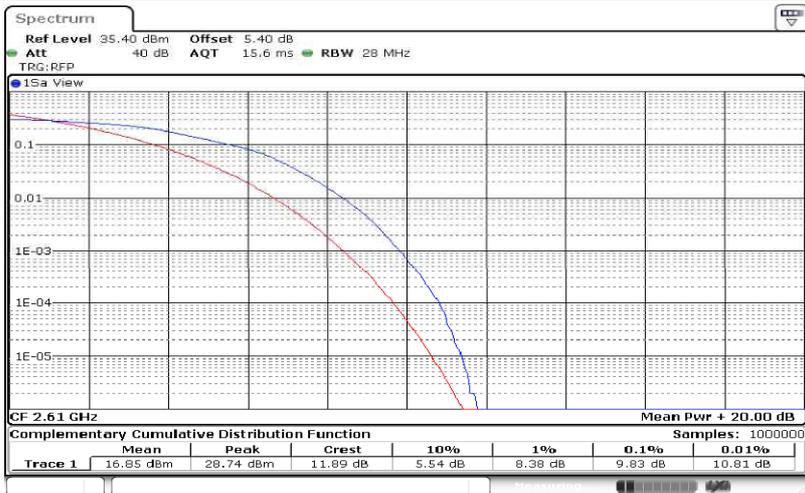
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Band38-20MHz-16QAM-38150-100RB#0



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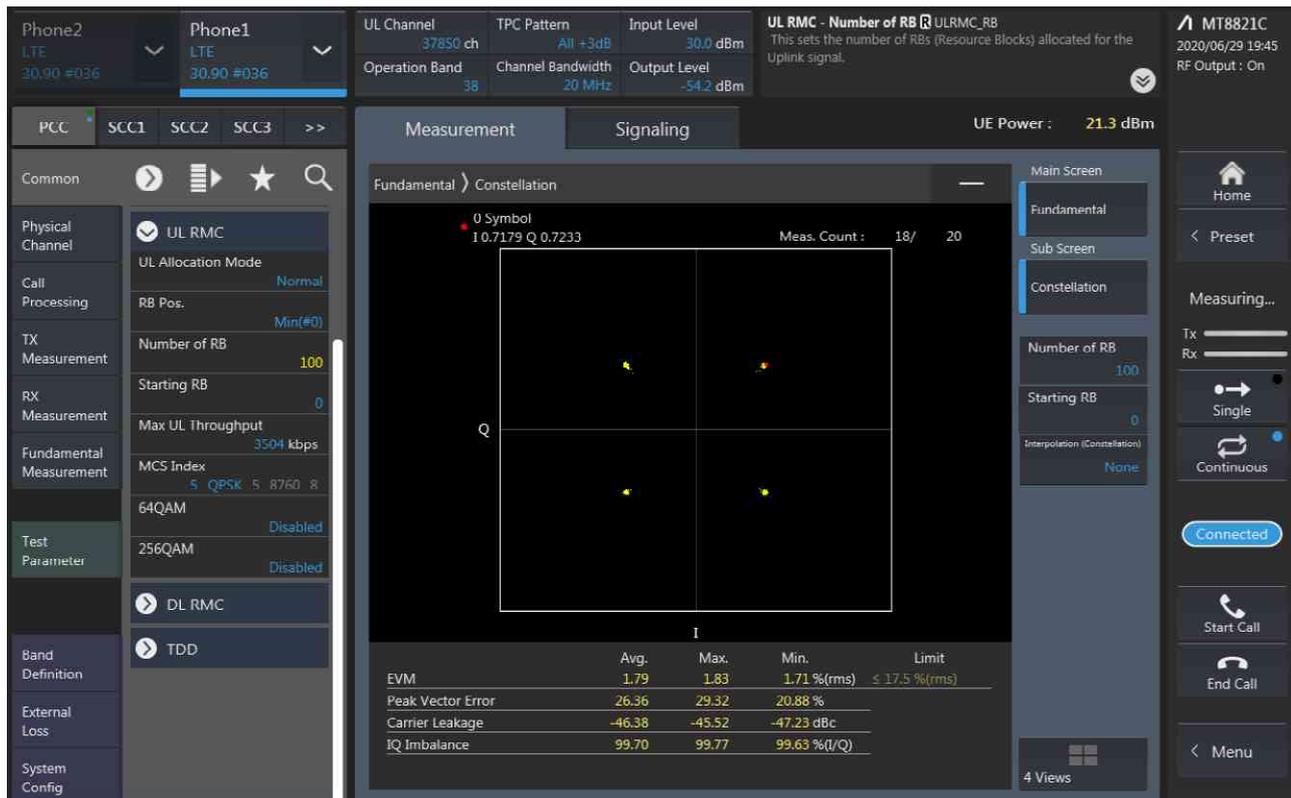
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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

3.1.1. Test Channel = MCH



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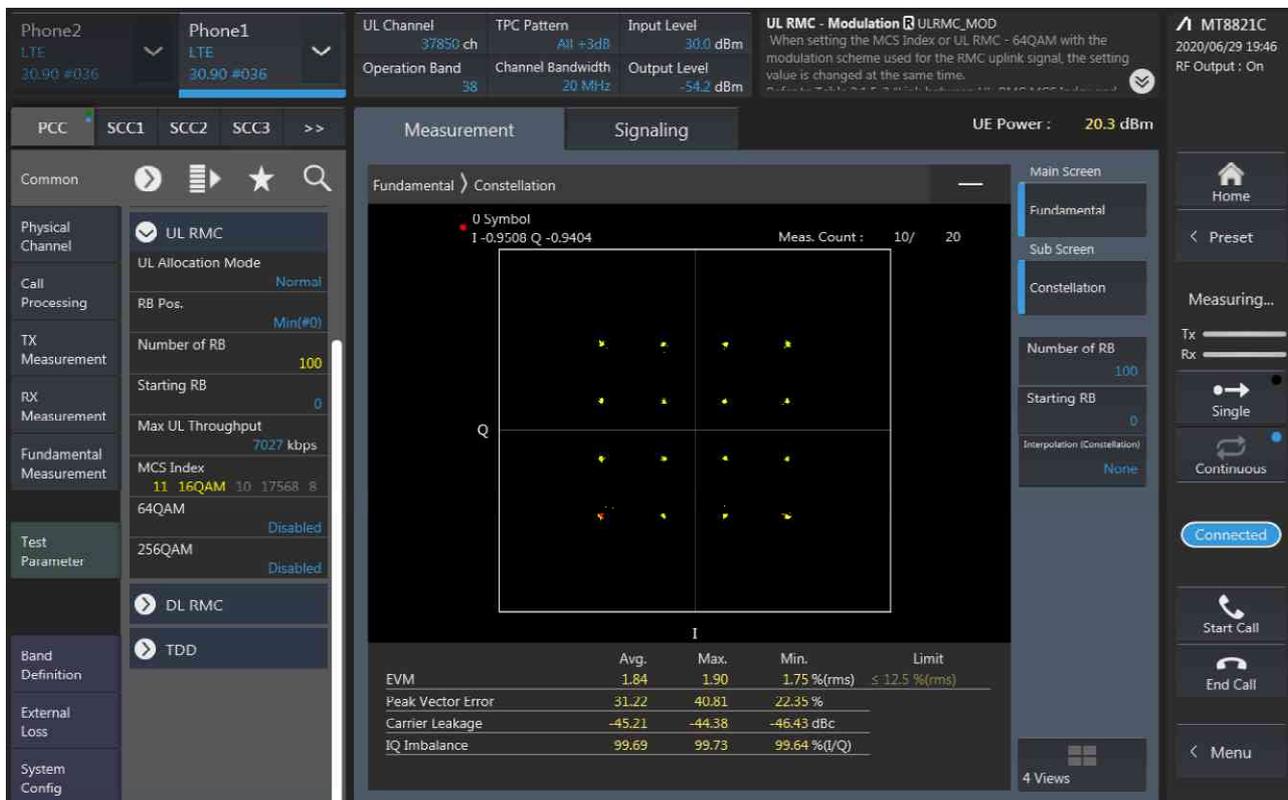
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3.2. Test Mode = LTE /TM2 20MHz

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	4.476	4.760	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.486	4.690	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.476	4.760	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.486	4.860	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.486	4.840	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.486	4.840	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.871	9.300	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.911	9.820	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.911	9.760	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.911	9.580	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.911	9.560	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.911	9.560	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.606	14.940	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.487	15.780	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.487	16.680	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.457	15.210	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.427	14.700	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.457	15.270	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.942	20.080	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.902	19.000	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.902	20.520	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.902	19.880	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.862	19.480	PASS
Band38	20MHz	16QAM	38150	100RB#0	18.062	18.840	PASS



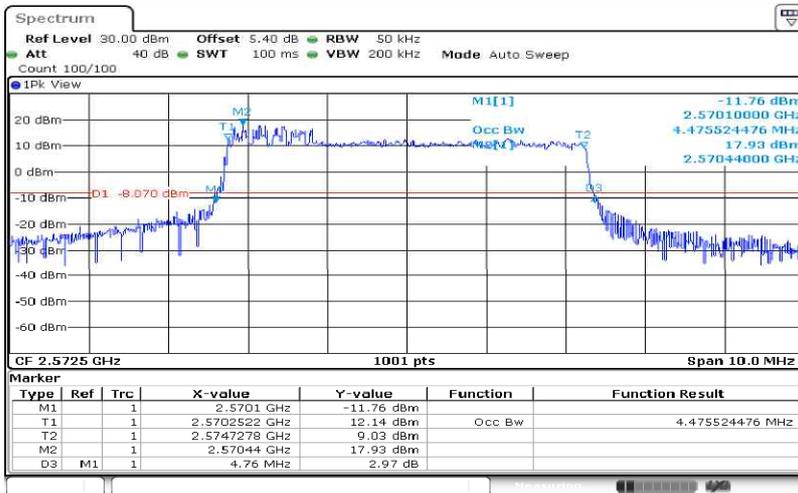
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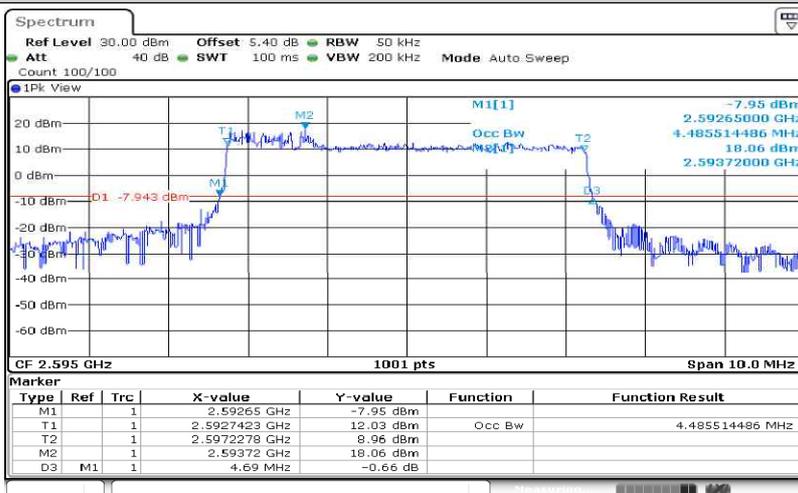
4.2. Test Plots

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



Date: 3 JUN 2020 16:06:05

Band38-5MHz-QPSK-38000-25RB#0-4.486



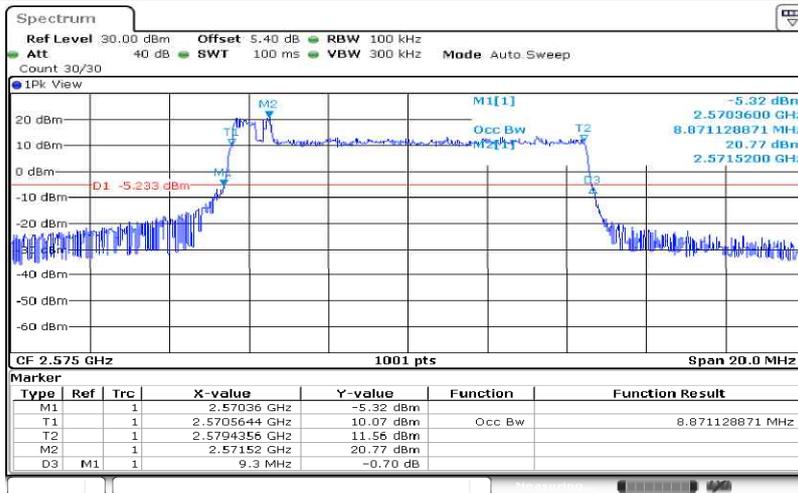
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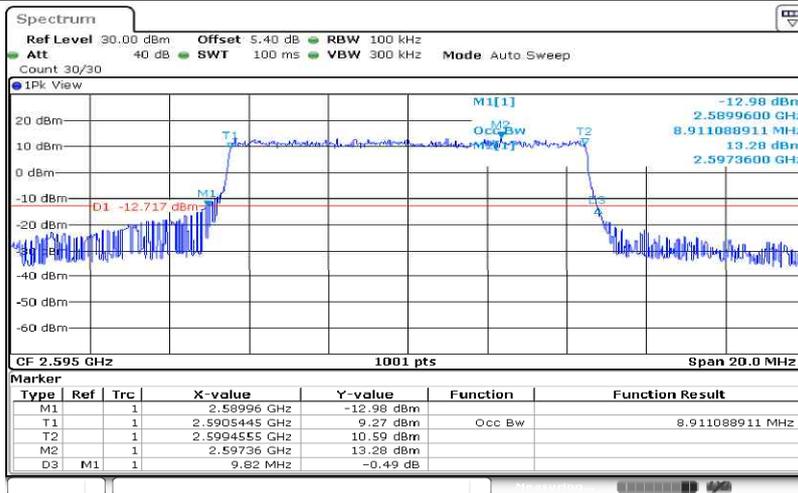


Band38-10MHz-QPSK-37800-50RB#0-8.871



Date: 3 JUN 2020 16:08:04

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



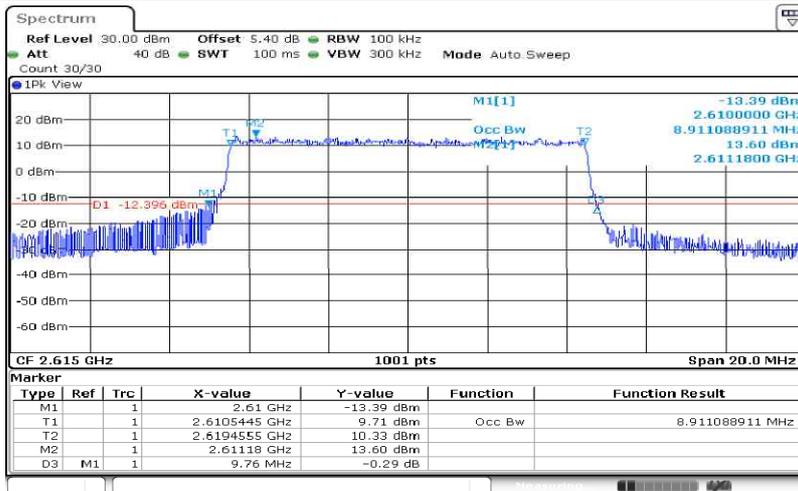
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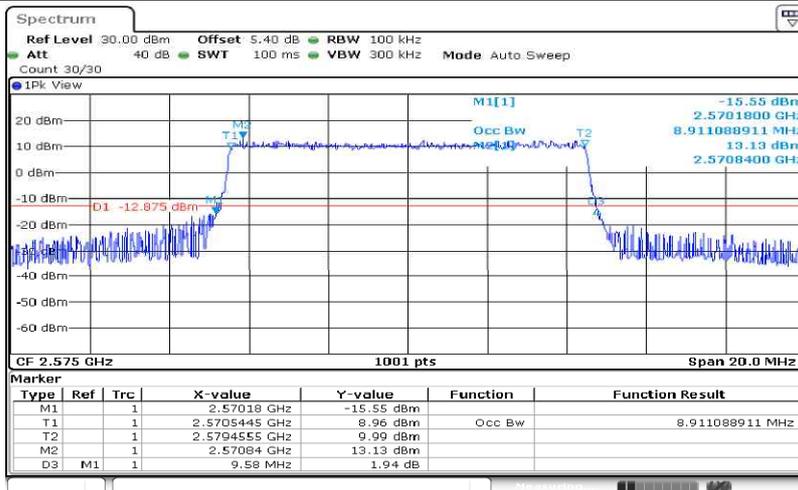


Band38-10MHz-QPSK-38200-50RB#0-8.911



Date: 3 JUN 2020 16:08:55

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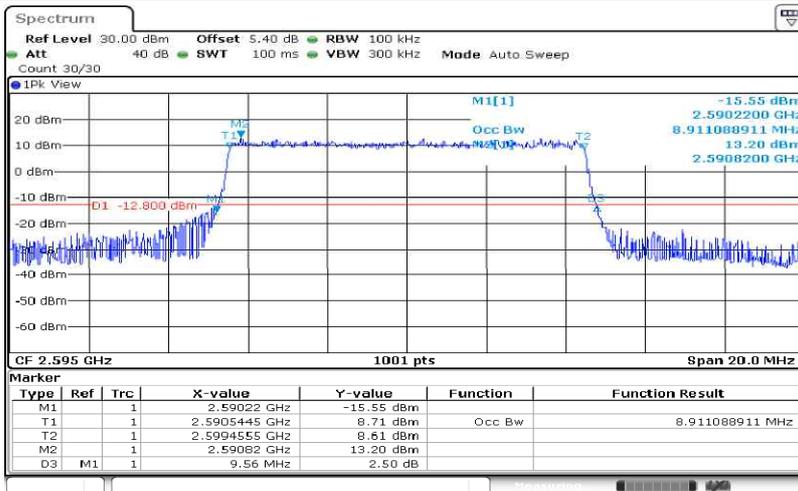
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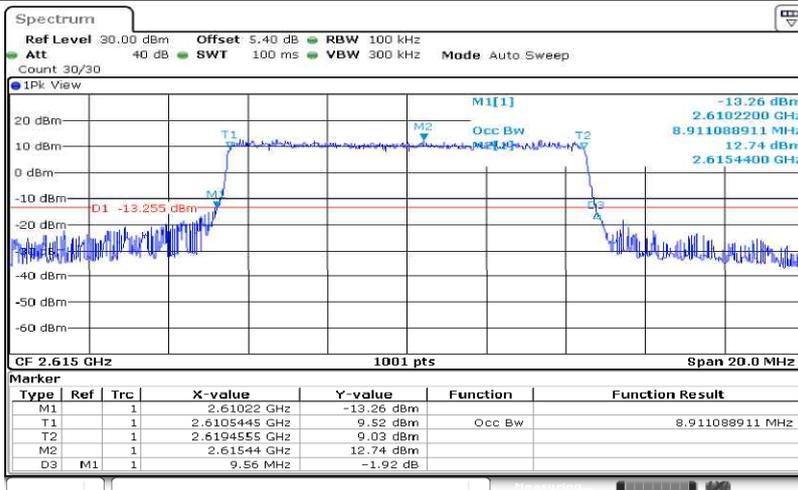
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Band38-10MHz-16QAM-38000-50RB#0-8.911



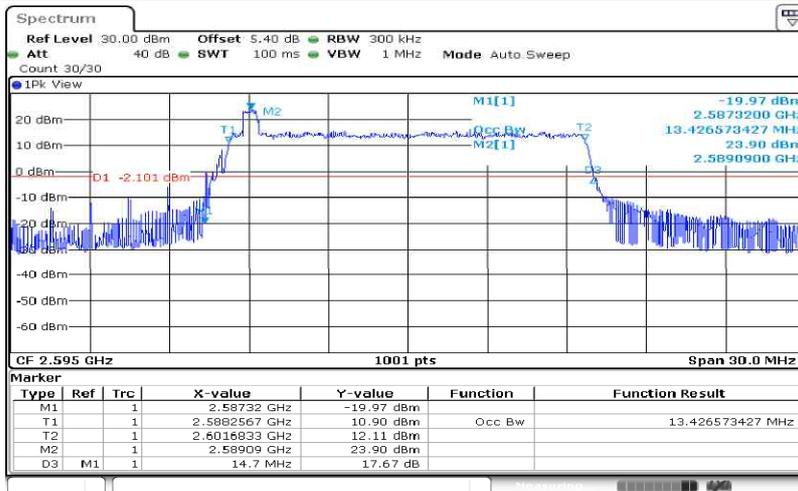
Band38-10MHz-16QAM-38200-50RB#0-8.911



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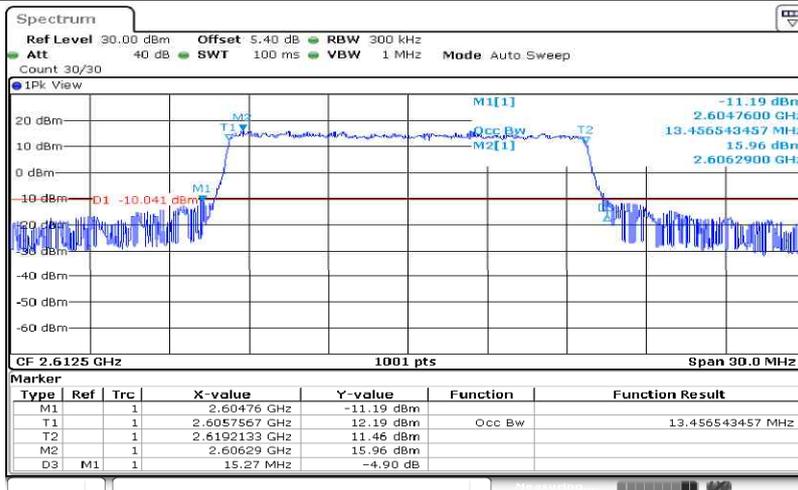


Band38-15MHz-16QAM-38000-75RB#0-13.427



Date: 3 JUN 2020 16:10:05

Band38-15MHz-16QAM-38175-75RB#0-13.457



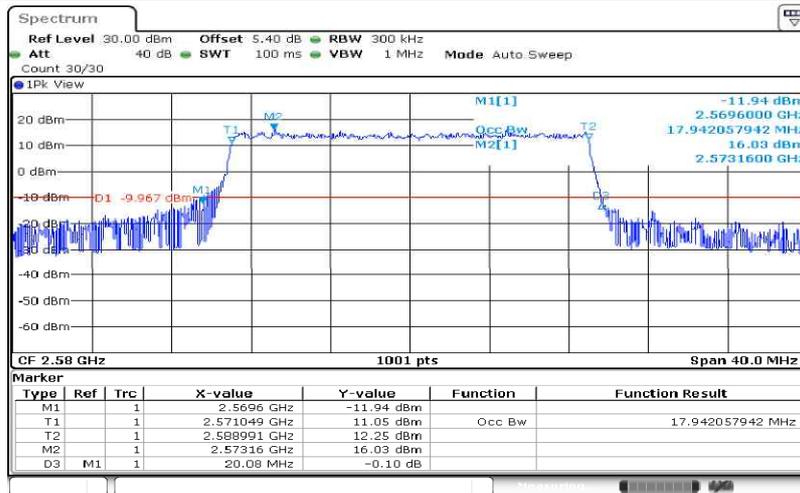
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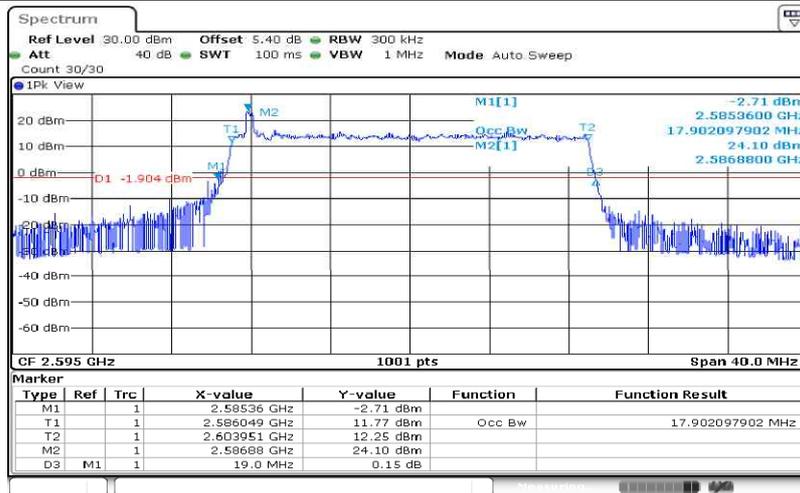


Band38-20MHz-QPSK-37850-100RB#0-17.942



Date: 3 JUN 2020 16:10:49

Band38-20MHz-QPSK-38000-100RB#0-17.902



Date: 3 JUN 2020 16:11:15

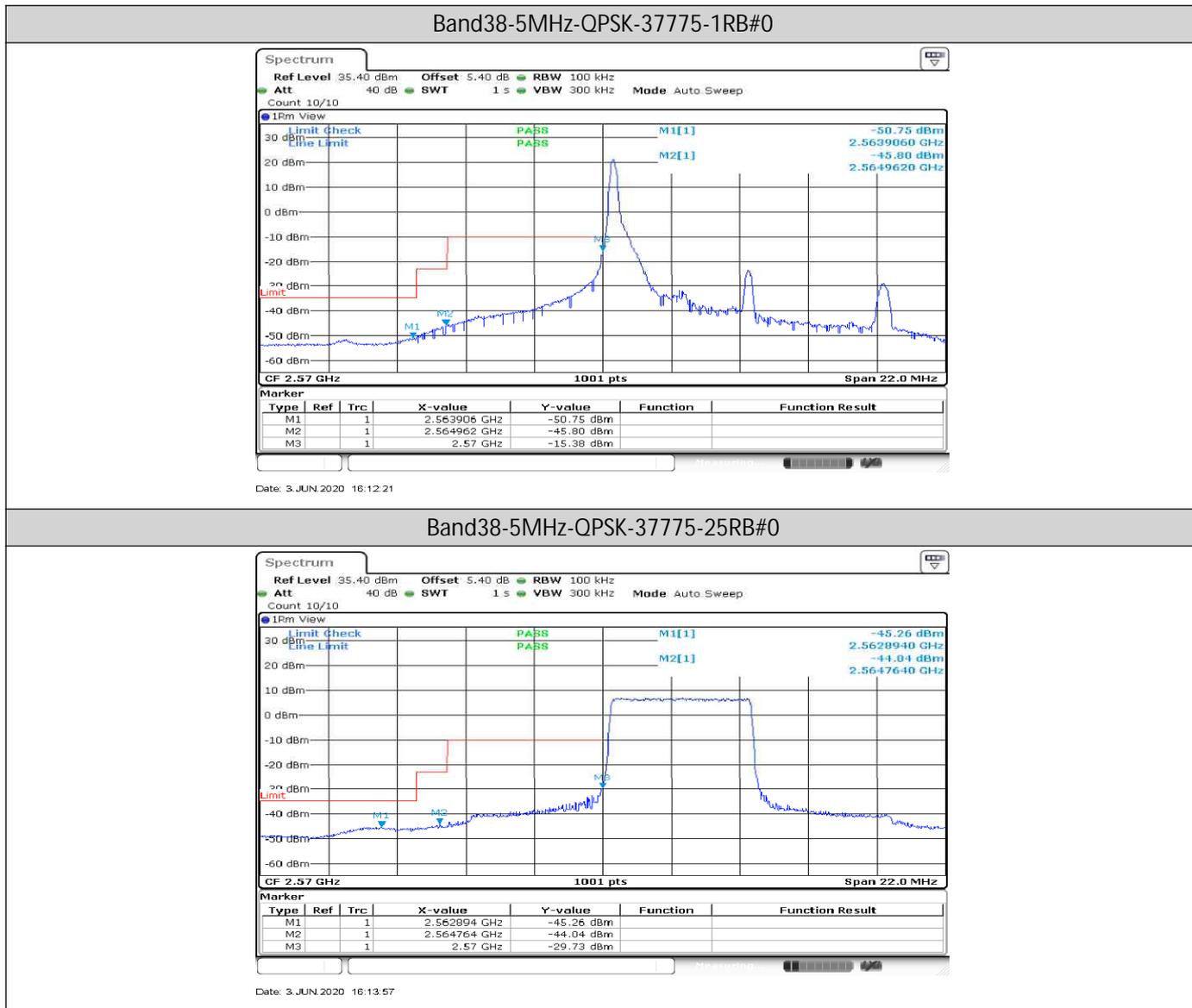


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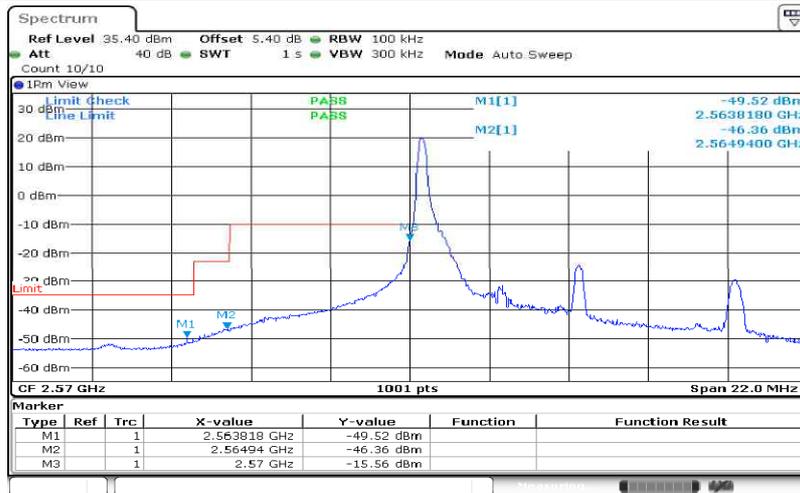
5. Band Edge Compliance

5.1. Test Plots



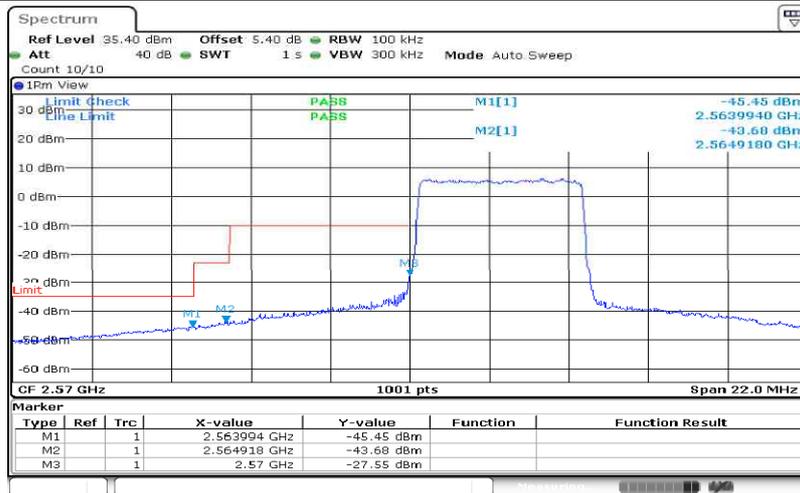


Band38-5MHz-16QAM-37775-1RB#0



Date: 3 JUN 2020 16:12:43

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



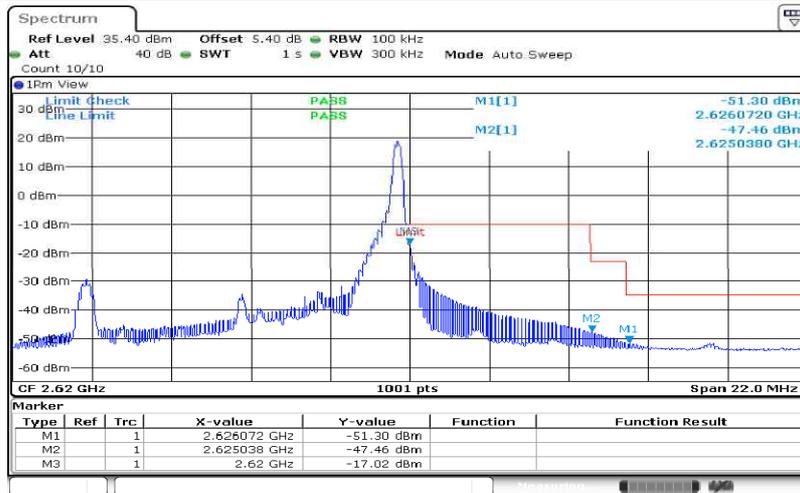
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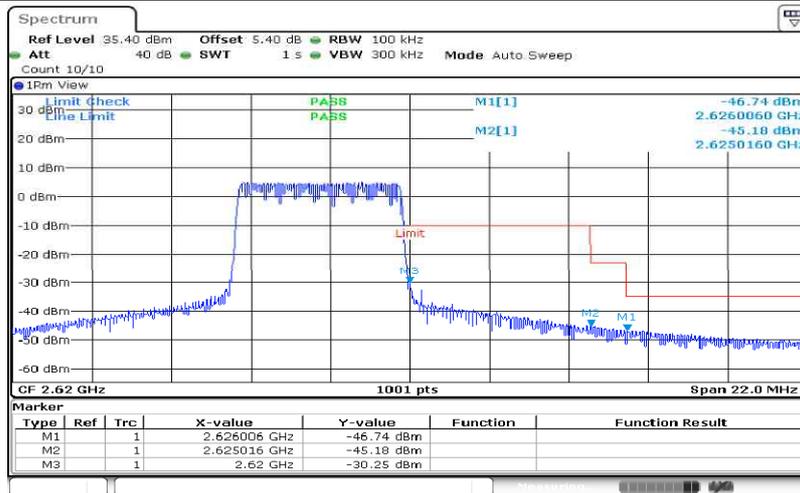


Band38-5MHz-16QAM-38225-1RB#24



Date: 24 JUN 2020 04:20:51

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



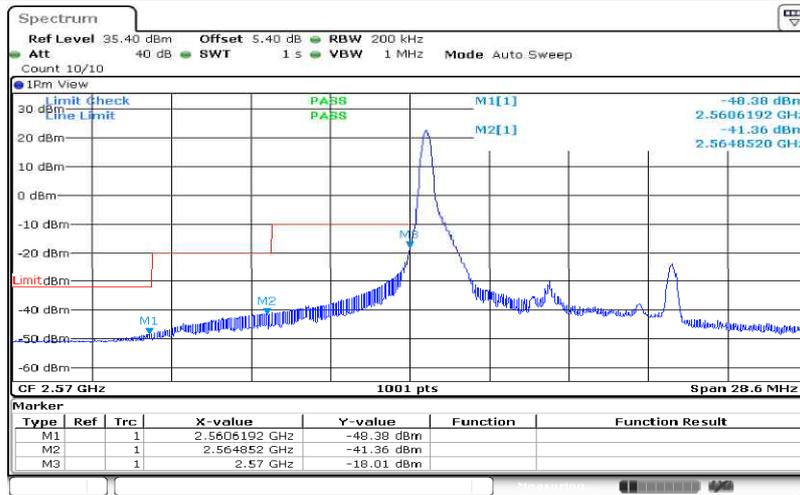
Date: 24 JUN 2020 04:22:55



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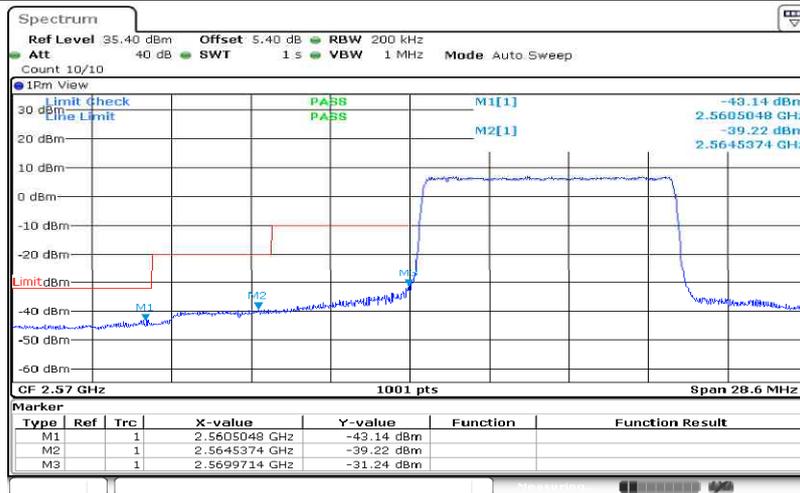


Band38-10MHz-QPSK-37800-1RB#0



Date: 3 JUN 2020 16:15:30

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



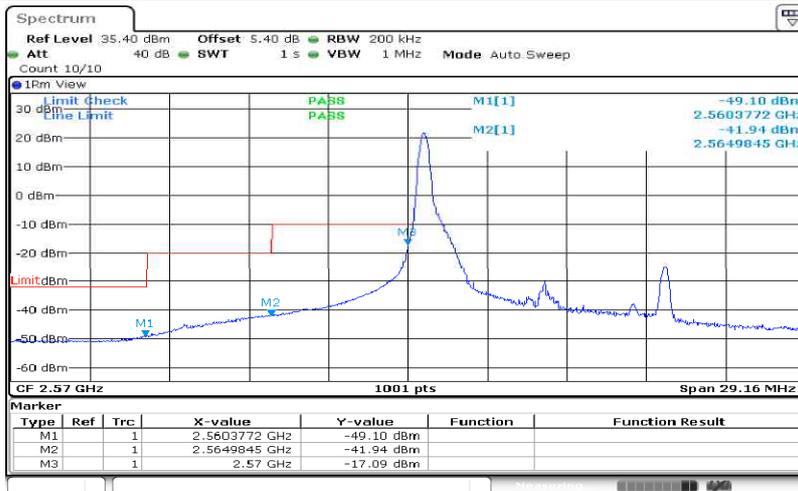
Date: 3 JUN 2020 16:17:05



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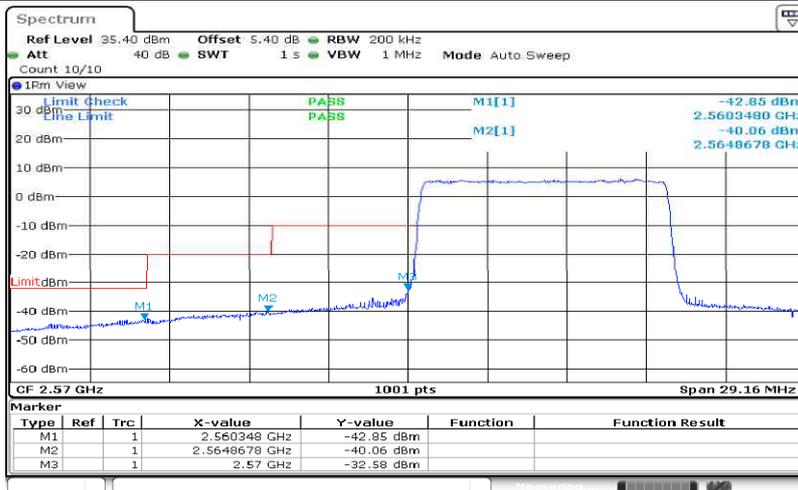


Band38-10MHz-16QAM-37800-1RB#0



Date: 3 JUN 2020 16:15:51

Band38-10MHz-16QAM-37800-50RB#0



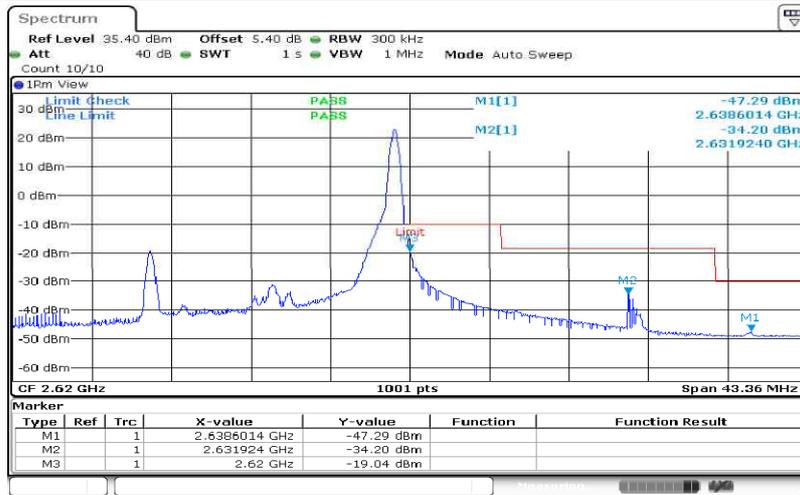
Date: 3 JUN 2020 16:17:27



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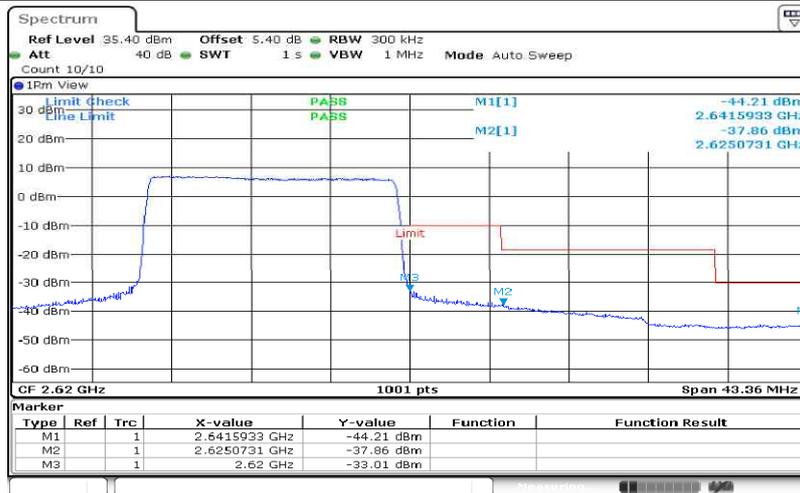


Band38-15MHz-QPSK-38175-1RB#74



Date: 3 JUN 2020 16:19:26

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

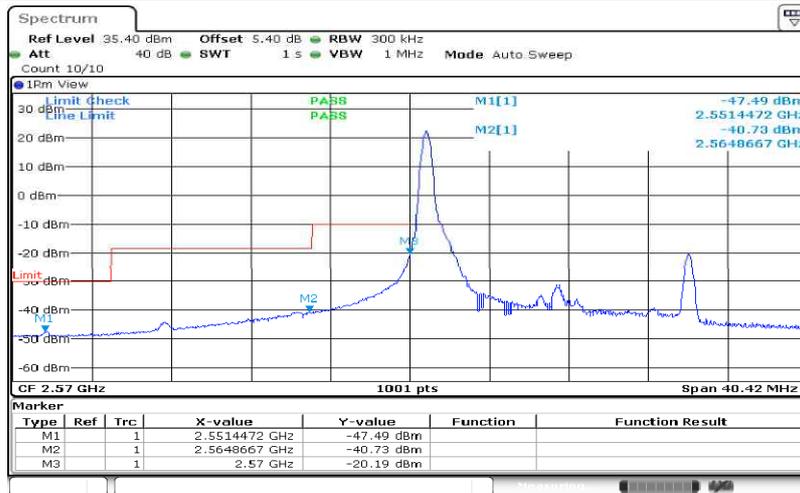


Date: 3 JUN 2020 16:20:58



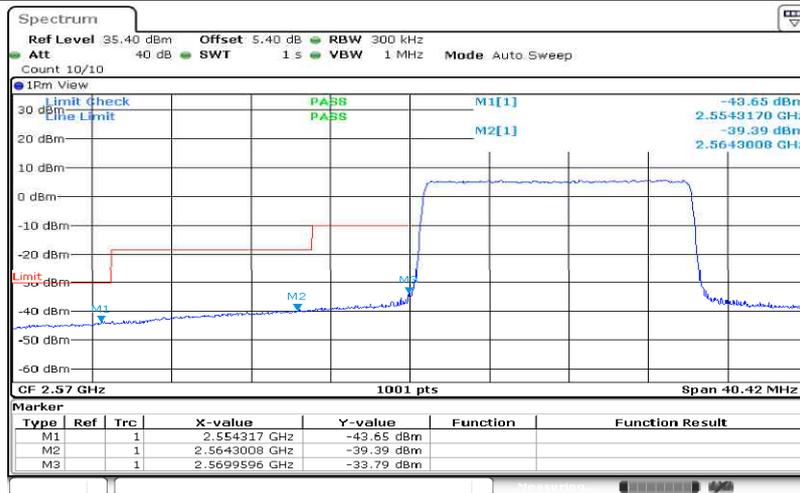
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Band38-15MHz-16QAM-37825-1RB#0



Date: 3 JUN 2020 16:19:00

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

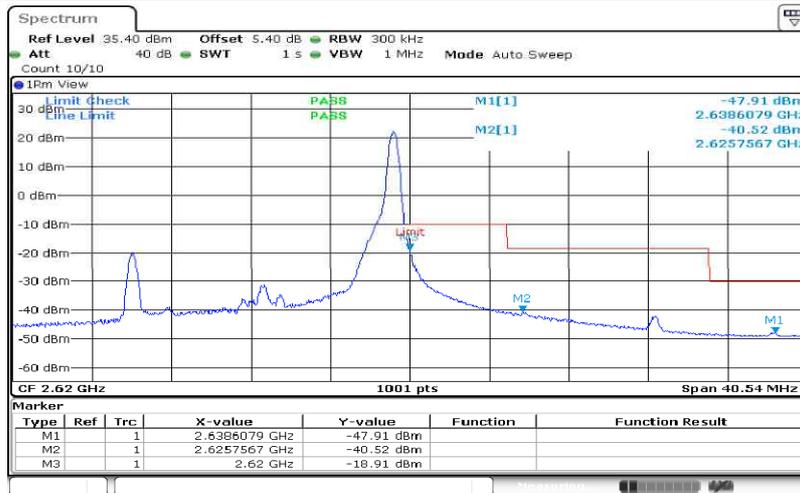


Date: 3 JUN 2020 16:20:36



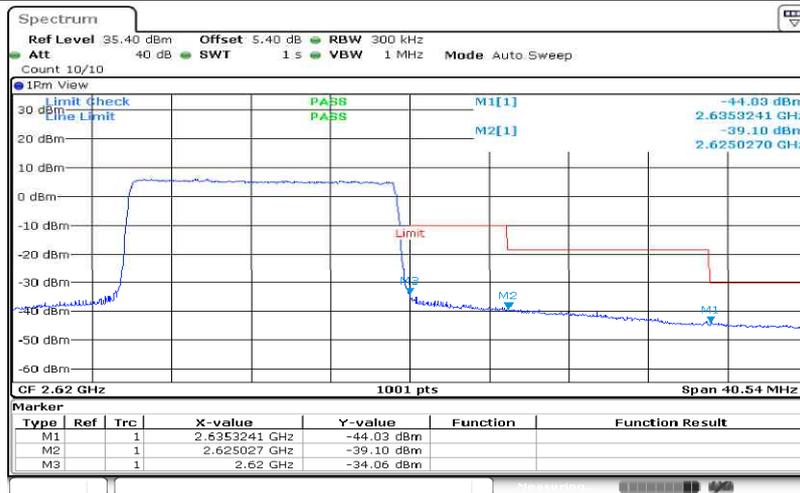
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Band38-15MHz-16QAM-38175-1RB#74



Date: 3 JUN 2020 16:19:48

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



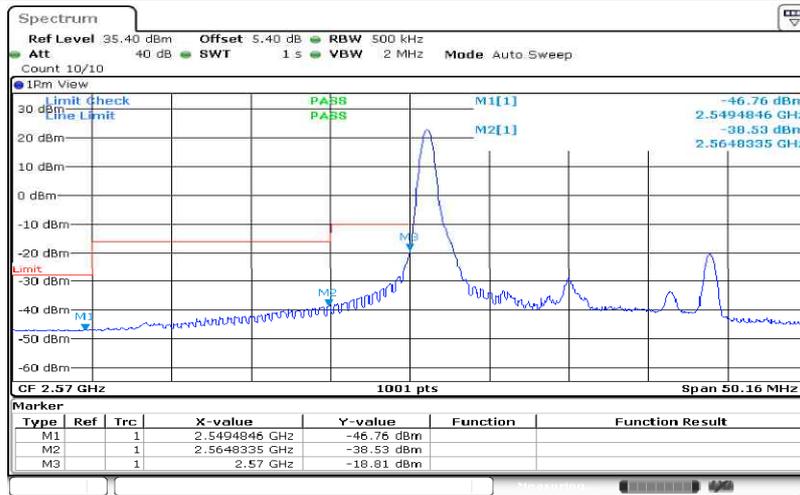
Date: 3 JUN 2020 16:21:20



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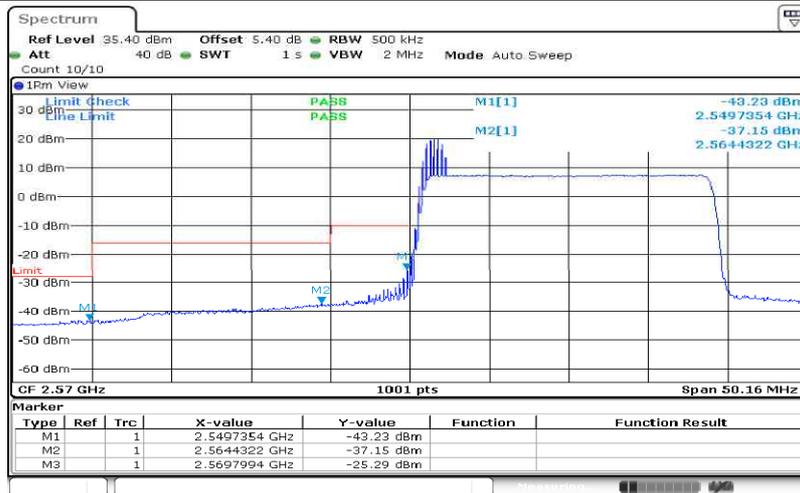


Band38-20MHz-QPSK-37850-1RB#0



Date: 3 JUN 2020 16:21:48

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



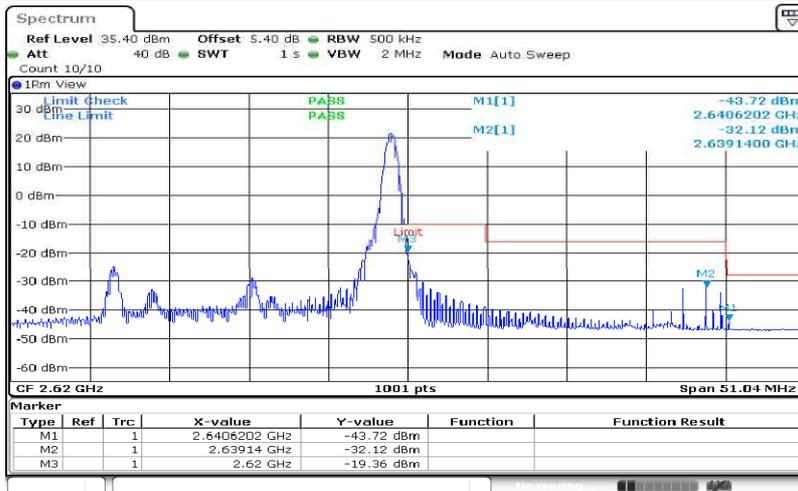
Date: 3 JUN 2020 16:23:24



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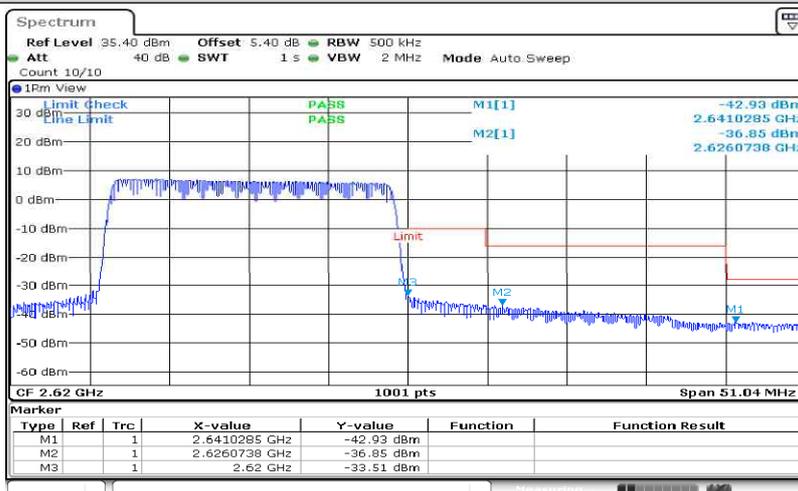


Band38-20MHz-QPSK-38150-1RB#99



Date: 24 JUN 2020 04:32:28

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



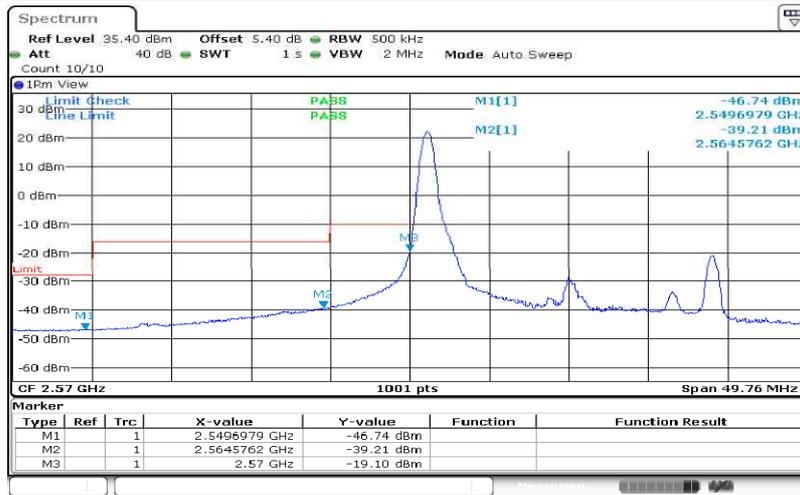
Date: 24 JUN 2020 04:35:00



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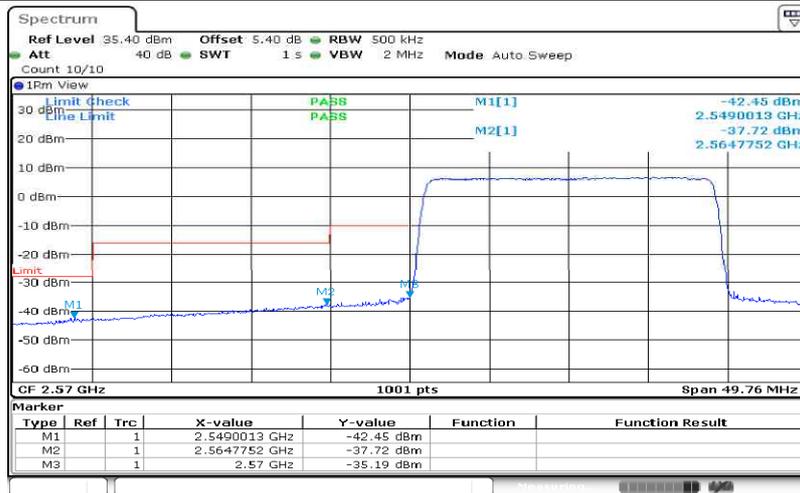


Band38-20MHz-16QAM-37850-1RB#0



Date: 3 JUN 2020 16:22:10

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

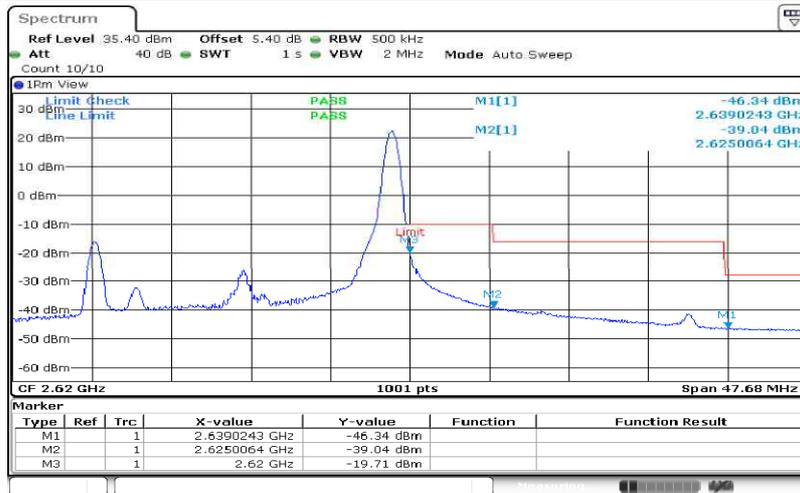


Date: 3 JUN 2020 16:23:46



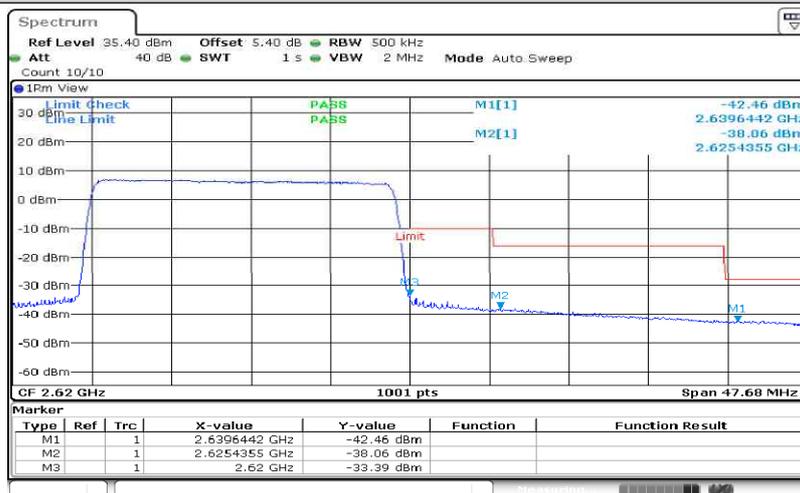
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Band38-20MHz-16QAM-38150-1RB#99



Date: 3 JUN 2020 16:22:58

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



Date: 3 JUN 2020 16:24:30



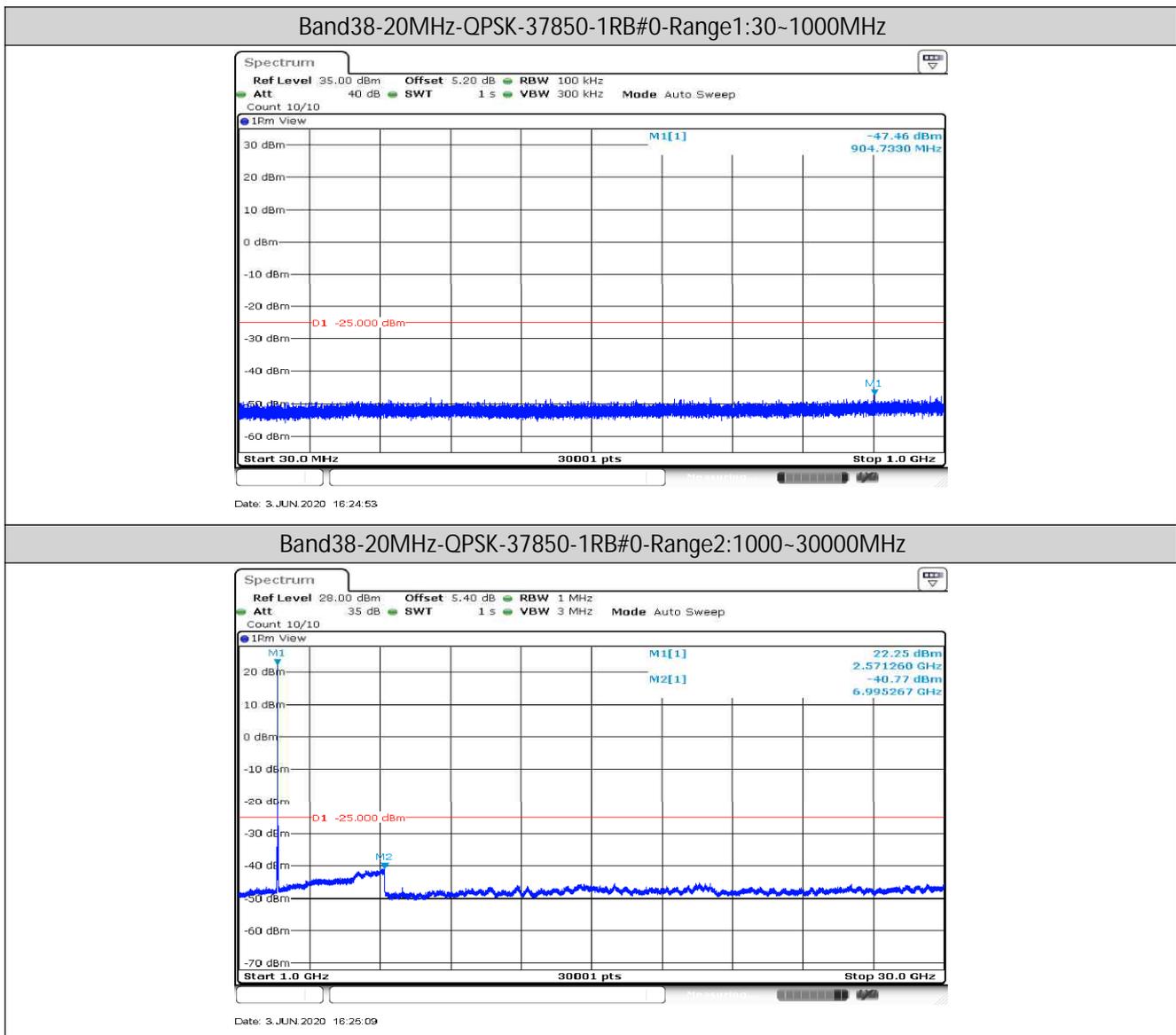
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6. Spurious Emission at Antenna Terminal

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.

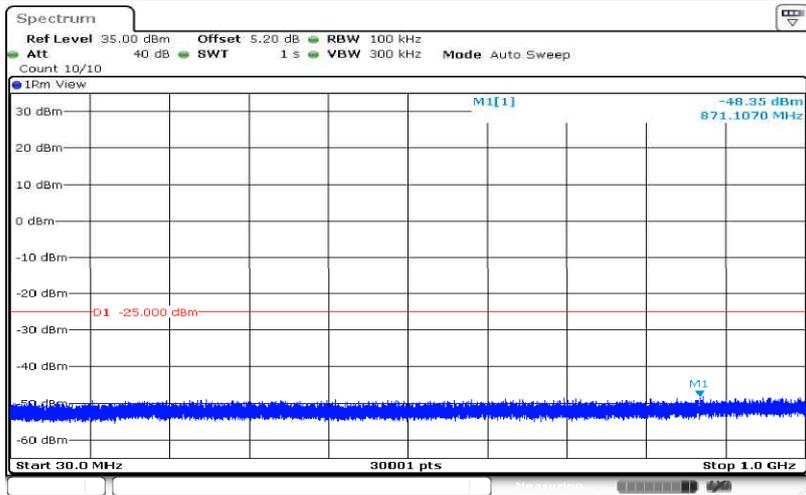
6.1. Test Plots



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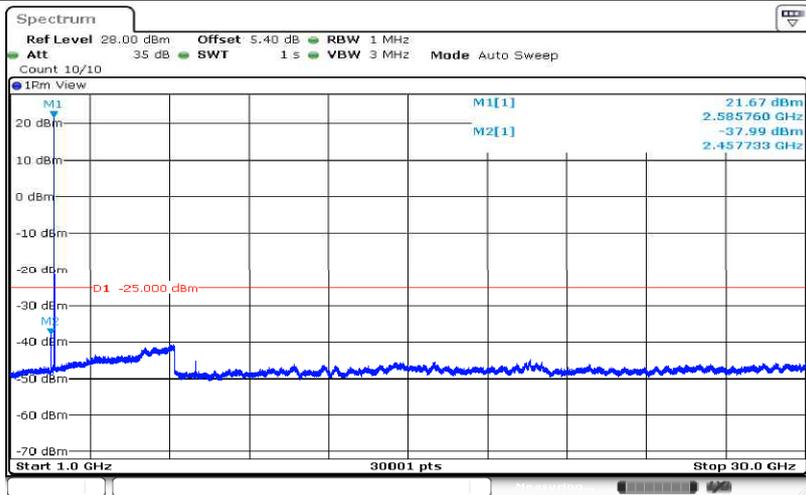


Band38-20MHz-QPSK-38000-1RB#0-Range1:30~1000MHz



Date: 3 JUN 2020 16:26:04

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



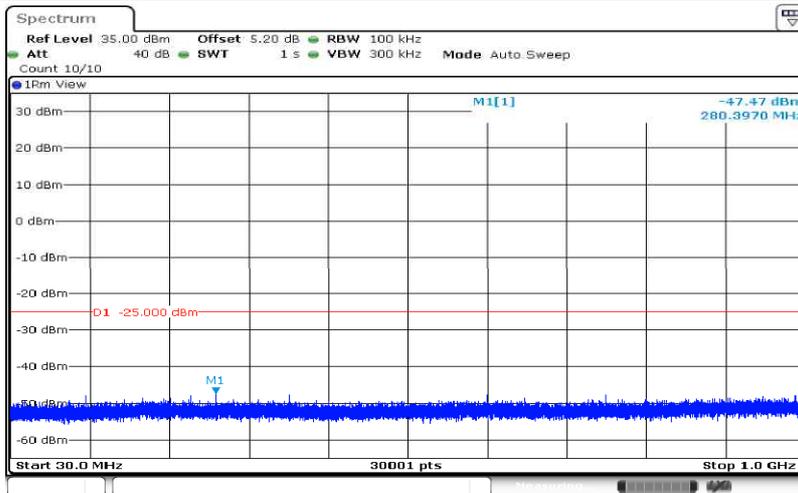
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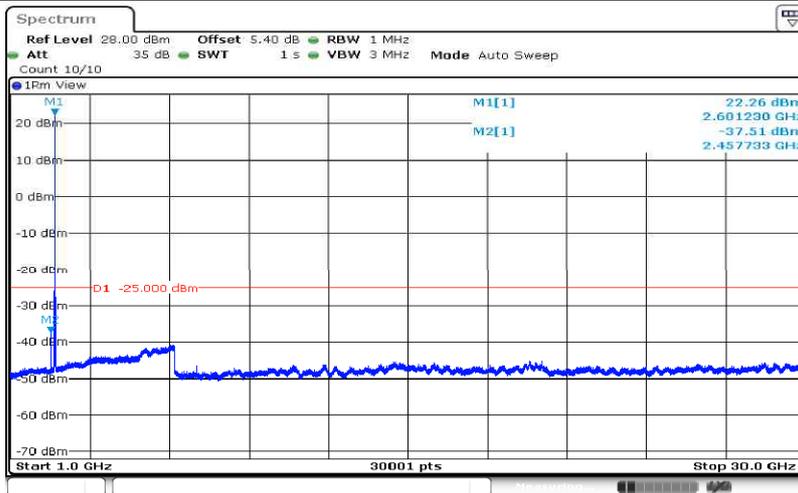


Band38-20MHz-QPSK-38150-1RB#0-Range1:30~1000MHz



Date: 3 JUN 2020 16:27:15

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



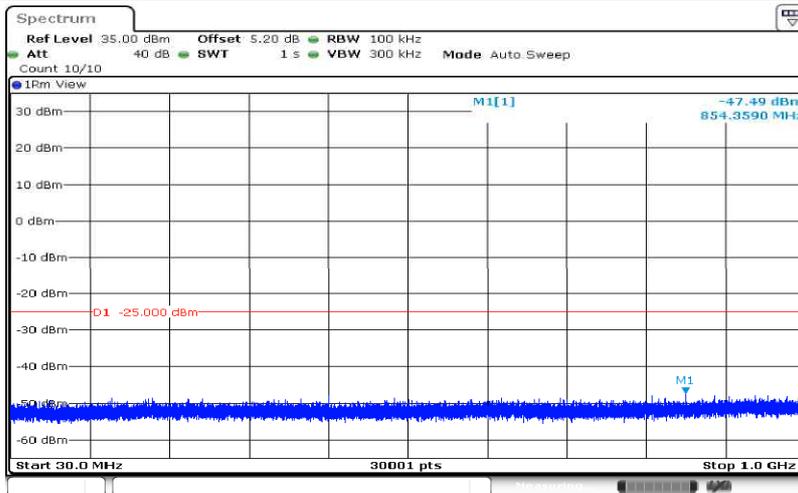
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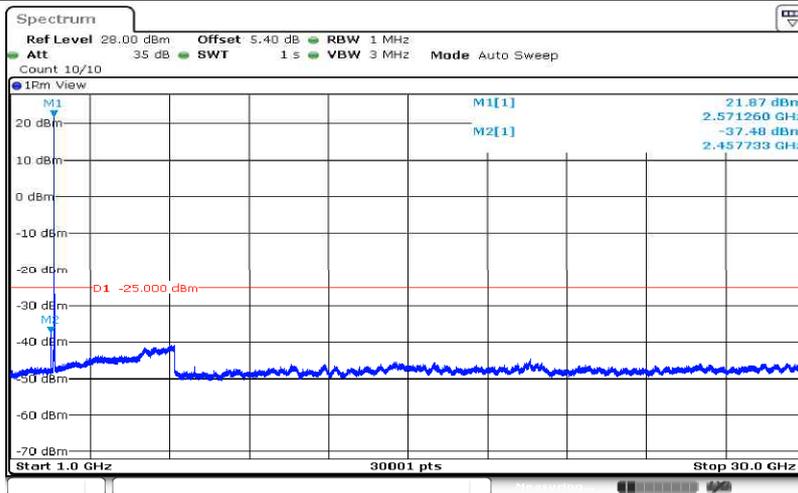


Band38-20MHz-16QAM-37850-1RB#0-Range1:30~1000MHz



Date: 3 JUN 2020 16:25:28

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



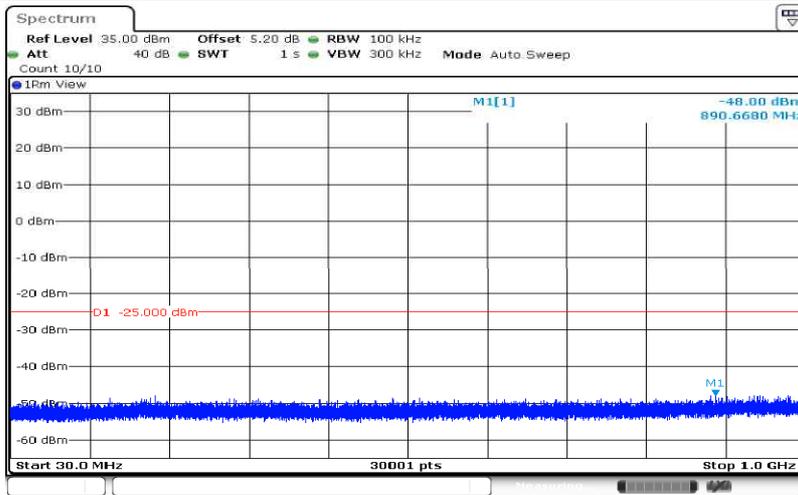
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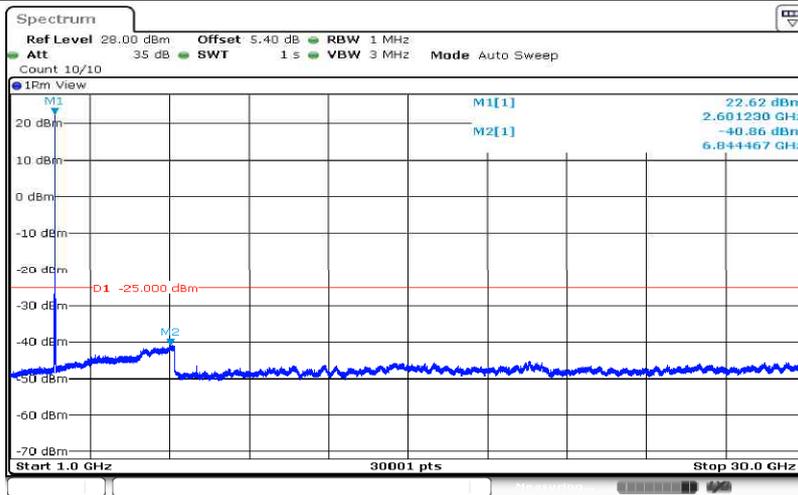


Band38-20MHz-16QAM-38150-1RB#0-Range1:30~1000MHz



Date: 3 JUN 2020 16:27:50

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



Date: 3 JUN 2020 16:28:06



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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 20MHz

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
108.2344	-64.88	-25.00	39.88	Vertical
599.0790	-62.61	-25.00	37.61	Vertical
1724.1448	-44.34	-25.00	19.34	Vertical
3608.5203	-62.33	-25.00	37.33	Vertical
14457.8819	-48.14	-25.00	23.14	Vertical
17998.5000	-40.77	-25.00	15.77	Vertical
45.0358	-63.60	-25.00	38.60	Horizontal
241.6161	-68.50	-25.00	43.50	Horizontal
1788.1576	-43.75	-25.00	18.75	Horizontal
7325.1442	-57.64	-25.00	32.64	Horizontal
16395.9465	-44.21	-25.00	19.21	Horizontal
17997.9999	-45.45	-25.00	20.45	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
110.1260	-63.80	-25.00	38.80	Vertical
616.5883	-64.34	-25.00	39.34	Vertical
1724.9450	-44.37	-25.00	19.37	Vertical
7334.1445	-56.89	-25.00	31.89	Vertical
14475.8825	-48.04	-25.00	23.04	Vertical
17998.5000	-40.32	-25.00	15.32	Vertical
38.0514	-64.75	-25.00	39.75	Horizontal
233.2252	-68.03	-25.00	43.03	Horizontal
1800.9602	-43.50	-25.00	18.50	Horizontal
7479.6493	-56.33	-25.00	31.33	Horizontal
16396.9466	-43.53	-25.00	18.53	Horizontal
17996.9999	-44.68	-25.00	19.68	Horizontal



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7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
110.3200	-64.86	-25.00	39.86	Vertical
741.3851	-62.04	-25.00	37.04	Vertical
1796.5593	-44.23	-25.00	19.23	Vertical
7349.6450	-56.16	-25.00	31.16	Vertical
14370.8790	-48.54	-25.00	23.54	Vertical
17996.9999	-40.42	-25.00	15.42	Vertical
44.1627	-64.15	-25.00	39.15	Horizontal
236.7173	-68.50	-25.00	43.50	Horizontal
1798.1596	-43.56	-25.00	18.56	Horizontal
7451.6484	-56.64	-25.00	31.64	Horizontal
16391.4464	-43.46	-25.00	18.46	Horizontal
17999.5000	-45.18	-25.00	20.18	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 h	Modulation	Channel l	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation n (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	VL	NT	-4.00	-0.001550	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VN	NT	-6.20	-0.002403	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VH	NT	-3.10	-0.001202	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VL	NT	-12.80	-0.004933	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	-12.20	-0.004701	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	-5.80	-0.002235	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VL	NT	-9.20	-0.003525	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VN	NT	-6.00	-0.002299	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VH	NT	-7.60	-0.002912	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VL	NT	-0.20	-0.000078	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VN	NT	2.60	0.001008	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VH	NT	-3.70	-0.001434	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VL	NT	-9.70	-0.003738	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VN	NT	-1.70	-0.000655	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VH	NT	-8.40	-0.003237	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VL	NT	-8.60	-0.003295	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VN	NT	-4.20	-0.001609	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VH	NT	-6.60	-0.002529	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Bandwidth h	Modulation	Channel l	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	NV	-30	-6.80	-0.002636	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	-20	-2.50	-0.000969	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	0	-8.70	-0.003372	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	10	-2.70	-0.001047	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	20	-0.90	-0.000349	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	30	-1.00	-0.000388	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	40	-1.40	-0.000543	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	50	2.00	0.000775	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-30	-4.50	-0.001734	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	-2.20	-0.000848	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	-3.70	-0.001426	±2.5	PASS



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Band38	20MHz	QPSK	38000	100RB#0	NV	10	-5.30	-0.002042	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	-7.00	-0.002697	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	-3.10	-0.001195	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	-0.10	-0.000039	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	-5.20	-0.002004	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-30	-8.50	-0.003257	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-20	-11.40	-0.004368	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	0	-8.60	-0.003295	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	10	-2.10	-0.000805	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	20	-2.10	-0.000805	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	30	-7.50	-0.002874	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	40	-5.10	-0.001954	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	50	-6.50	-0.002490	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-30	-5.80	-0.002248	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-20	-2.80	-0.001085	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	0	-4.20	-0.001628	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	10	4.60	0.001783	±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	30	0.60	0.000233	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	40	-2.90	-0.001124	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	50	-0.70	-0.000271	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-30	-5.00	-0.001927	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-20	-5.40	-0.002081	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	0	-12.40	-0.004778	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	10	-7.80	-0.003006	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	20	-6.40	-0.002466	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	30	-6.30	-0.002428	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	40	-10.90	-0.004200	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	50	-12.80	-0.004933	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-30	-1.40	-0.000536	±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	0	-10.60	-0.004061	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	10	-2.40	-0.000920	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	20	-8.30	-0.003180	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	30	-0.20	-0.000077	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	40	-6.70	-0.002567	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	50	-4.90	-0.001877	±2.5	PASS



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