



Appendix B

E-UTRA Band 41



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Shenzhen Branch Testing Center EEC Laboratory

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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
Band41	5MHz	QPSK	40065	1RB#0	23.11	23.11	33.00	PASS
Band41	5MHz	QPSK	40065	1RB#12	23.20	23.20	33.00	PASS
Band41	5MHz	QPSK	40065	1RB#24	23.15	23.15	33.00	PASS
Band41	5MHz	QPSK	40065	12RB#6	22.36	22.36	33.00	PASS
Band41	5MHz	QPSK	40065	12RB#0	22.39	22.39	33.00	PASS
Band41	5MHz	QPSK	40065	12RB#13	22.33	22.33	33.00	PASS
Band41	5MHz	QPSK	40065	25RB#0	22.29	22.29	33.00	PASS
Band41	5MHz	QPSK	40640	1RB#24	23.08	23.08	33.00	PASS
Band41	5MHz	QPSK	40640	1RB#0	23.22	23.22	33.00	PASS
Band41	5MHz	QPSK	40640	1RB#12	23.11	23.11	33.00	PASS
Band41	5MHz	QPSK	40640	12RB#0	22.31	22.31	33.00	PASS
Band41	5MHz	QPSK	40640	12RB#6	22.34	22.34	33.00	PASS
Band41	5MHz	QPSK	40640	12RB#13	22.21	22.21	33.00	PASS
Band41	5MHz	QPSK	40640	25RB#0	22.21	22.21	33.00	PASS
Band41	5MHz	QPSK	41215	1RB#12	23.18	23.18	33.00	PASS
Band41	5MHz	QPSK	41215	1RB#0	23.36	23.36	33.00	PASS
Band41	5MHz	QPSK	41215	1RB#24	23.18	23.18	33.00	PASS
Band41	5MHz	QPSK	41215	12RB#13	22.46	22.46	33.00	PASS
Band41	5MHz	QPSK	41215	12RB#6	22.52	22.52	33.00	PASS
Band41	5MHz	QPSK	41215	12RB#0	22.44	22.44	33.00	PASS
Band41	5MHz	QPSK	41215	25RB#0	22.44	22.44	33.00	PASS
Band41	5MHz	16QAM	40065	1RB#0	22.30	22.30	33.00	PASS
Band41	5MHz	16QAM	40065	1RB#24	22.29	22.29	33.00	PASS
Band41	5MHz	16QAM	40065	1RB#12	22.21	22.21	33.00	PASS
Band41	5MHz	16QAM	40065	12RB#13	21.28	21.28	33.00	PASS
Band41	5MHz	16QAM	40065	12RB#6	21.23	21.23	33.00	PASS
Band41	5MHz	16QAM	40065	12RB#0	21.21	21.21	33.00	PASS



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Band41	5MHz	16QAM	40065	25RB#0	21.33	21.33	33.00	PASS
Band41	5MHz	16QAM	40640	1RB#0	22.28	22.28	33.00	PASS
Band41	5MHz	16QAM	40640	1RB#12	22.26	22.26	33.00	PASS
Band41	5MHz	16QAM	40640	1RB#24	22.26	22.26	33.00	PASS
Band41	5MHz	16QAM	40640	12RB#0	21.19	21.19	33.00	PASS
Band41	5MHz	16QAM	40640	12RB#6	21.16	21.16	33.00	PASS
Band41	5MHz	16QAM	40640	12RB#13	21.14	21.14	33.00	PASS
Band41	5MHz	16QAM	40640	25RB#0	21.26	21.26	33.00	PASS
Band41	5MHz	16QAM	41215	1RB#0	22.30	22.30	33.00	PASS
Band41	5MHz	16QAM	41215	1RB#24	22.45	22.45	33.00	PASS
Band41	5MHz	16QAM	41215	1RB#12	22.33	22.33	33.00	PASS
Band41	5MHz	16QAM	41215	12RB#0	21.39	21.39	33.00	PASS
Band41	5MHz	16QAM	41215	12RB#6	21.49	21.49	33.00	PASS
Band41	5MHz	16QAM	41215	12RB#13	21.34	21.34	33.00	PASS
Band41	5MHz	16QAM	41215	25RB#0	21.44	21.44	33.00	PASS
Band41	10MHz	QPSK	40090	1RB#49	23.23	23.23	33.00	PASS
Band41	10MHz	QPSK	40090	1RB#24	23.24	23.24	33.00	PASS
Band41	10MHz	QPSK	40090	1RB#0	23.16	23.16	33.00	PASS
Band41	10MHz	QPSK	40090	25RB#12	22.28	22.28	33.00	PASS
Band41	10MHz	QPSK	40090	25RB#0	22.36	22.36	33.00	PASS
Band41	10MHz	QPSK	40090	25RB#25	22.31	22.31	33.00	PASS
Band41	10MHz	QPSK	40090	50RB#0	22.28	22.28	33.00	PASS
Band41	10MHz	QPSK	40640	1RB#24	23.19	23.19	33.00	PASS
Band41	10MHz	QPSK	40640	1RB#49	23.12	23.12	33.00	PASS
Band41	10MHz	QPSK	40640	1RB#0	23.18	23.18	33.00	PASS
Band41	10MHz	QPSK	40640	25RB#25	22.37	22.37	33.00	PASS
Band41	10MHz	QPSK	40640	25RB#0	22.33	22.33	33.00	PASS
Band41	10MHz	QPSK	40640	25RB#12	22.36	22.36	33.00	PASS
Band41	10MHz	QPSK	40640	50RB#0	22.24	22.24	33.00	PASS
Band41	10MHz	QPSK	41190	1RB#49	23.32	23.32	33.00	PASS
Band41	10MHz	QPSK	41190	1RB#24	23.32	23.32	33.00	PASS
Band41	10MHz	QPSK	41190	1RB#0	23.32	23.32	33.00	PASS
Band41	10MHz	QPSK	41190	25RB#25	22.48	22.48	33.00	PASS



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Band41	10MHz	QPSK	41190	25RB#0	22.47	22.47	33.00	PASS
Band41	10MHz	QPSK	41190	25RB#12	22.52	22.52	33.00	PASS
Band41	10MHz	QPSK	41190	50RB#0	22.40	22.40	33.00	PASS
Band41	10MHz	16QAM	40090	1RB#0	22.33	22.33	33.00	PASS
Band41	10MHz	16QAM	40090	1RB#24	22.26	22.26	33.00	PASS
Band41	10MHz	16QAM	40090	1RB#49	22.26	22.26	33.00	PASS
Band41	10MHz	16QAM	40090	25RB#12	21.37	21.37	33.00	PASS
Band41	10MHz	16QAM	40090	25RB#0	21.33	21.33	33.00	PASS
Band41	10MHz	16QAM	40090	25RB#25	21.33	21.33	33.00	PASS
Band41	10MHz	16QAM	40090	50RB#0	21.24	21.24	33.00	PASS
Band41	10MHz	16QAM	40640	1RB#0	22.32	22.32	33.00	PASS
Band41	10MHz	16QAM	40640	1RB#49	22.20	22.20	33.00	PASS
Band41	10MHz	16QAM	40640	1RB#24	22.25	22.25	33.00	PASS
Band41	10MHz	16QAM	40640	25RB#0	21.27	21.27	33.00	PASS
Band41	10MHz	16QAM	40640	25RB#25	21.31	21.31	33.00	PASS
Band41	10MHz	16QAM	40640	25RB#12	21.24	21.24	33.00	PASS
Band41	10MHz	16QAM	40640	50RB#0	21.21	21.21	33.00	PASS
Band41	10MHz	16QAM	41190	1RB#0	22.45	22.45	33.00	PASS
Band41	10MHz	16QAM	41190	1RB#49	22.38	22.38	33.00	PASS
Band41	10MHz	16QAM	41190	1RB#24	22.44	22.44	33.00	PASS
Band41	10MHz	16QAM	41190	25RB#0	21.48	21.48	33.00	PASS
Band41	10MHz	16QAM	41190	25RB#12	21.43	21.43	33.00	PASS
Band41	10MHz	16QAM	41190	25RB#25	21.48	21.48	33.00	PASS
Band41	10MHz	16QAM	41190	50RB#0	21.40	21.40	33.00	PASS
Band41	15MHz	QPSK	40115	1RB#74	23.16	23.16	33.00	PASS
Band41	15MHz	QPSK	40115	1RB#38	23.33	23.33	33.00	PASS
Band41	15MHz	QPSK	40115	1RB#0	23.06	23.06	33.00	PASS
Band41	15MHz	QPSK	40115	36RB#39	22.36	22.36	33.00	PASS
Band41	15MHz	QPSK	40115	36RB#18	22.39	22.39	33.00	PASS
Band41	15MHz	QPSK	40115	36RB#0	22.39	22.39	33.00	PASS
Band41	15MHz	QPSK	40115	75RB#0	22.30	22.30	33.00	PASS
Band41	15MHz	QPSK	40640	1RB#0	23.14	23.14	33.00	PASS
Band41	15MHz	QPSK	40640	1RB#38	23.22	23.22	33.00	PASS



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Band41	15MHz	QPSK	40640	1RB#74	23.16	23.16	33.00	PASS
Band41	15MHz	QPSK	40640	36RB#0	22.23	22.23	33.00	PASS
Band41	15MHz	QPSK	40640	36RB#18	22.33	22.33	33.00	PASS
Band41	15MHz	QPSK	40640	36RB#39	22.36	22.36	33.00	PASS
Band41	15MHz	QPSK	40640	75RB#0	22.15	22.15	33.00	PASS
Band41	15MHz	QPSK	41165	1RB#0	23.21	23.21	33.00	PASS
Band41	15MHz	QPSK	41165	1RB#38	23.31	23.31	33.00	PASS
Band41	15MHz	QPSK	41165	1RB#74	23.17	23.17	33.00	PASS
Band41	15MHz	QPSK	41165	36RB#0	22.56	22.56	33.00	PASS
Band41	15MHz	QPSK	41165	36RB#18	22.44	22.44	33.00	PASS
Band41	15MHz	QPSK	41165	36RB#39	22.46	22.46	33.00	PASS
Band41	15MHz	QPSK	41165	75RB#0	22.38	22.38	33.00	PASS
Band41	15MHz	16QAM	40115	1RB#38	22.25	22.25	33.00	PASS
Band41	15MHz	16QAM	40115	1RB#0	22.33	22.33	33.00	PASS
Band41	15MHz	16QAM	40115	1RB#74	22.20	22.20	33.00	PASS
Band41	15MHz	16QAM	40115	36RB#0	21.24	21.24	33.00	PASS
Band41	15MHz	16QAM	40115	36RB#39	21.33	21.33	33.00	PASS
Band41	15MHz	16QAM	40115	36RB#18	21.27	21.27	33.00	PASS
Band41	15MHz	16QAM	40115	75RB#0	21.26	21.26	33.00	PASS
Band41	15MHz	16QAM	40640	1RB#38	22.17	22.17	33.00	PASS
Band41	15MHz	16QAM	40640	1RB#74	22.27	22.27	33.00	PASS
Band41	15MHz	16QAM	40640	1RB#0	22.32	22.32	33.00	PASS
Band41	15MHz	16QAM	40640	36RB#0	21.19	21.19	33.00	PASS
Band41	15MHz	16QAM	40640	36RB#18	21.22	21.22	33.00	PASS
Band41	15MHz	16QAM	40640	36RB#39	21.20	21.20	33.00	PASS
Band41	15MHz	16QAM	40640	75RB#0	21.26	21.26	33.00	PASS
Band41	15MHz	16QAM	41165	1RB#0	22.29	22.29	33.00	PASS
Band41	15MHz	16QAM	41165	1RB#38	22.44	22.44	33.00	PASS
Band41	15MHz	16QAM	41165	1RB#74	22.42	22.42	33.00	PASS
Band41	15MHz	16QAM	41165	36RB#0	21.36	21.36	33.00	PASS
Band41	15MHz	16QAM	41165	36RB#18	21.31	21.31	33.00	PASS
Band41	15MHz	16QAM	41165	36RB#39	21.40	21.40	33.00	PASS
Band41	15MHz	16QAM	41165	75RB#0	21.42	21.42	33.00	PASS



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Band41	20MHz	QPSK	40140	1RB#0	23.10	23.10	33.00	PASS
Band41	20MHz	QPSK	40140	1RB#49	23.43	23.43	33.00	PASS
Band41	20MHz	QPSK	40140	1RB#99	23.01	23.01	33.00	PASS
Band41	20MHz	QPSK	40140	50RB#25	22.17	22.17	33.00	PASS
Band41	20MHz	QPSK	40140	50RB#0	22.25	22.25	33.00	PASS
Band41	20MHz	QPSK	40140	50RB#50	22.27	22.27	33.00	PASS
Band41	20MHz	QPSK	40140	100RB#0	22.23	22.23	33.00	PASS
Band41	20MHz	QPSK	40640	1RB#99	23.07	23.07	33.00	PASS
Band41	20MHz	QPSK	40640	1RB#0	23.34	23.34	33.00	PASS
Band41	20MHz	QPSK	40640	1RB#49	23.02	23.02	33.00	PASS
Band41	20MHz	QPSK	40640	50RB#0	22.27	22.27	33.00	PASS
Band41	20MHz	QPSK	40640	50RB#25	22.24	22.24	33.00	PASS
Band41	20MHz	QPSK	40640	50RB#50	22.28	22.28	33.00	PASS
Band41	20MHz	QPSK	40640	100RB#0	22.24	22.24	33.00	PASS
Band41	20MHz	QPSK	41140	1RB#49	23.06	23.06	33.00	PASS
Band41	20MHz	QPSK	41140	1RB#0	23.41	23.41	33.00	PASS
Band41	20MHz	QPSK	41140	1RB#99	23.11	23.11	33.00	PASS
Band41	20MHz	QPSK	41140	50RB#25	22.36	22.36	33.00	PASS
Band41	20MHz	QPSK	41140	50RB#0	22.41	22.41	33.00	PASS
Band41	20MHz	QPSK	41140	50RB#50	22.41	22.41	33.00	PASS
Band41	20MHz	QPSK	41140	100RB#0	22.41	22.41	33.00	PASS
Band41	20MHz	16QAM	40140	1RB#0	22.25	22.25	33.00	PASS
Band41	20MHz	16QAM	40140	1RB#49	22.19	22.19	33.00	PASS
Band41	20MHz	16QAM	40140	1RB#99	22.40	22.40	33.00	PASS
Band41	20MHz	16QAM	40140	50RB#0	21.38	21.38	33.00	PASS
Band41	20MHz	16QAM	40140	50RB#25	21.27	21.27	33.00	PASS
Band41	20MHz	16QAM	40140	50RB#50	21.32	21.32	33.00	PASS
Band41	20MHz	16QAM	40140	100RB#0	21.55	21.55	33.00	PASS
Band41	20MHz	16QAM	40640	1RB#0	22.40	22.40	33.00	PASS
Band41	20MHz	16QAM	40640	1RB#99	22.16	22.16	33.00	PASS
Band41	20MHz	16QAM	40640	1RB#49	22.45	22.45	33.00	PASS
Band41	20MHz	16QAM	40640	50RB#0	21.26	21.26	33.00	PASS
Band41	20MHz	16QAM	40640	50RB#25	21.23	21.23	33.00	PASS



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Band41	20MHz	16QAM	40640	50RB#50	21.40	21.40	33.00	PASS
Band41	20MHz	16QAM	40640	100RB#0	21.40	21.40	33.00	PASS
Band41	20MHz	16QAM	41140	1RB#0	22.56	22.56	33.00	PASS
Band41	20MHz	16QAM	41140	1RB#99	22.18	22.18	33.00	PASS
Band41	20MHz	16QAM	41140	1RB#49	22.62	22.62	33.00	PASS
Band41	20MHz	16QAM	41140	50RB#50	21.26	21.26	33.00	PASS
Band41	20MHz	16QAM	41140	50RB#25	21.16	21.16	33.00	PASS
Band41	20MHz	16QAM	41140	50RB#0	21.53	21.53	33.00	PASS
Band41	20MHz	16QAM	41140	100RB#0	21.65	21.65	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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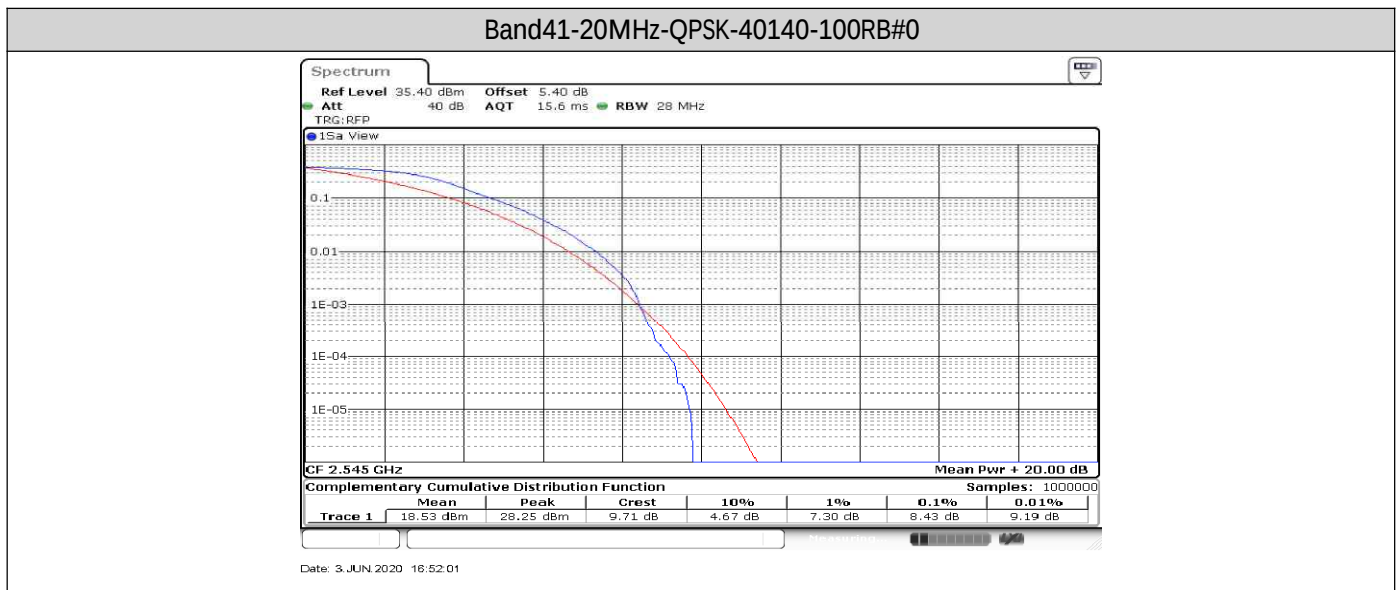


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

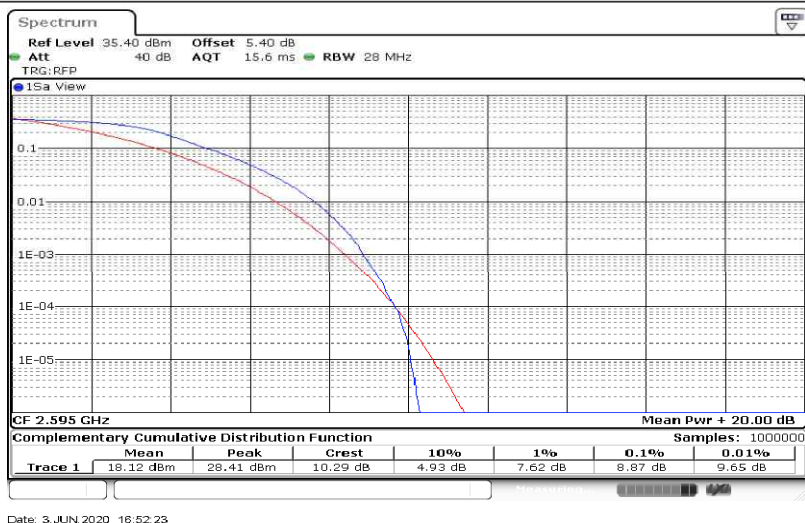
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	20MHz	QPSK	40140	100RB#0	8.43	13	PASS
Band41	20MHz	QPSK	40640	100RB#0	8.87	13	PASS
Band41	20MHz	QPSK	41140	100RB#0	6.23	13	PASS
Band41	20MHz	16QAM	40140	100RB#0	9.42	13	PASS
Band41	20MHz	16QAM	40640	100RB#0	9.59	13	PASS
Band41	20MHz	16QAM	41140	100RB#0	9.65	13	PASS

2.2. Test Plots

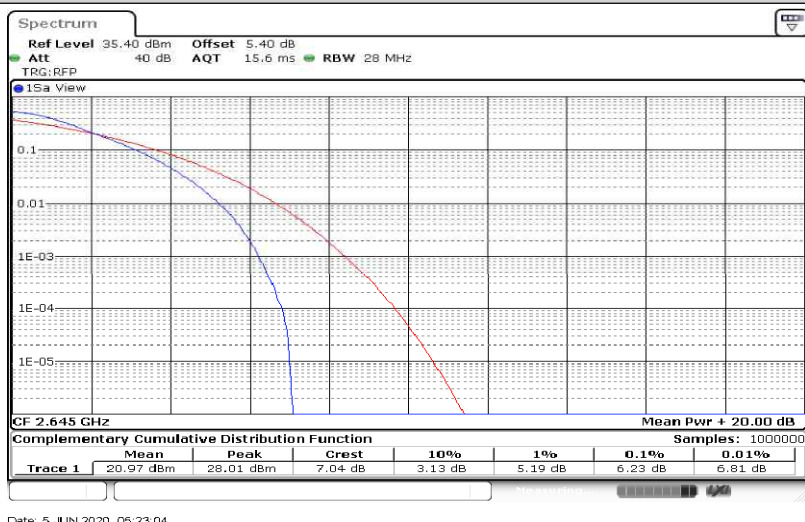




Band41-20MHz-QPSK-40640-100RB#0



Band41-20MHz-QPSK-41140-100RB#0



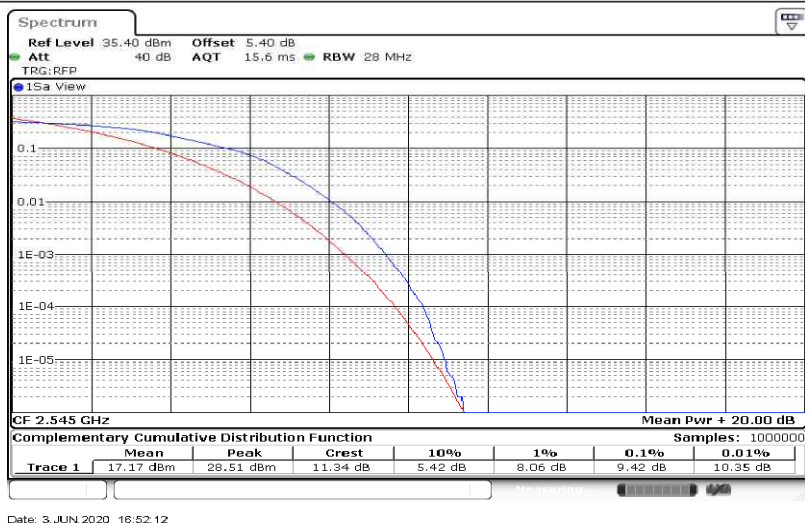
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Band41-20MHz-16QAM-40140-100RB#0

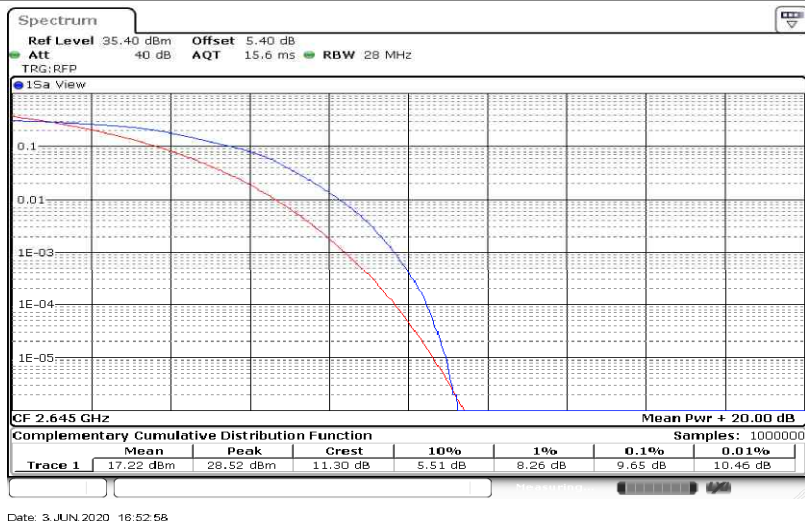


Band41-20MHz-16QAM-40640-100RB#0





Band41-20MHz-16QAM-41140-100RB#0

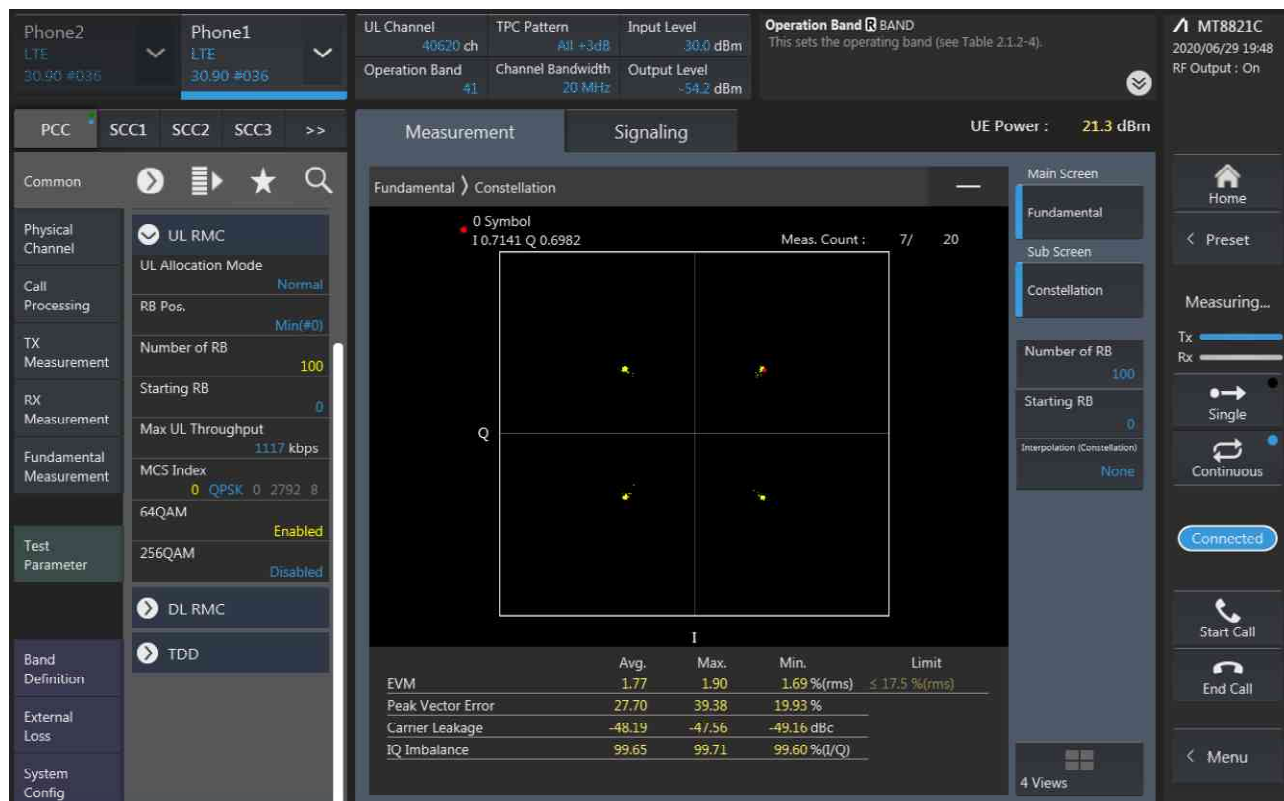




3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

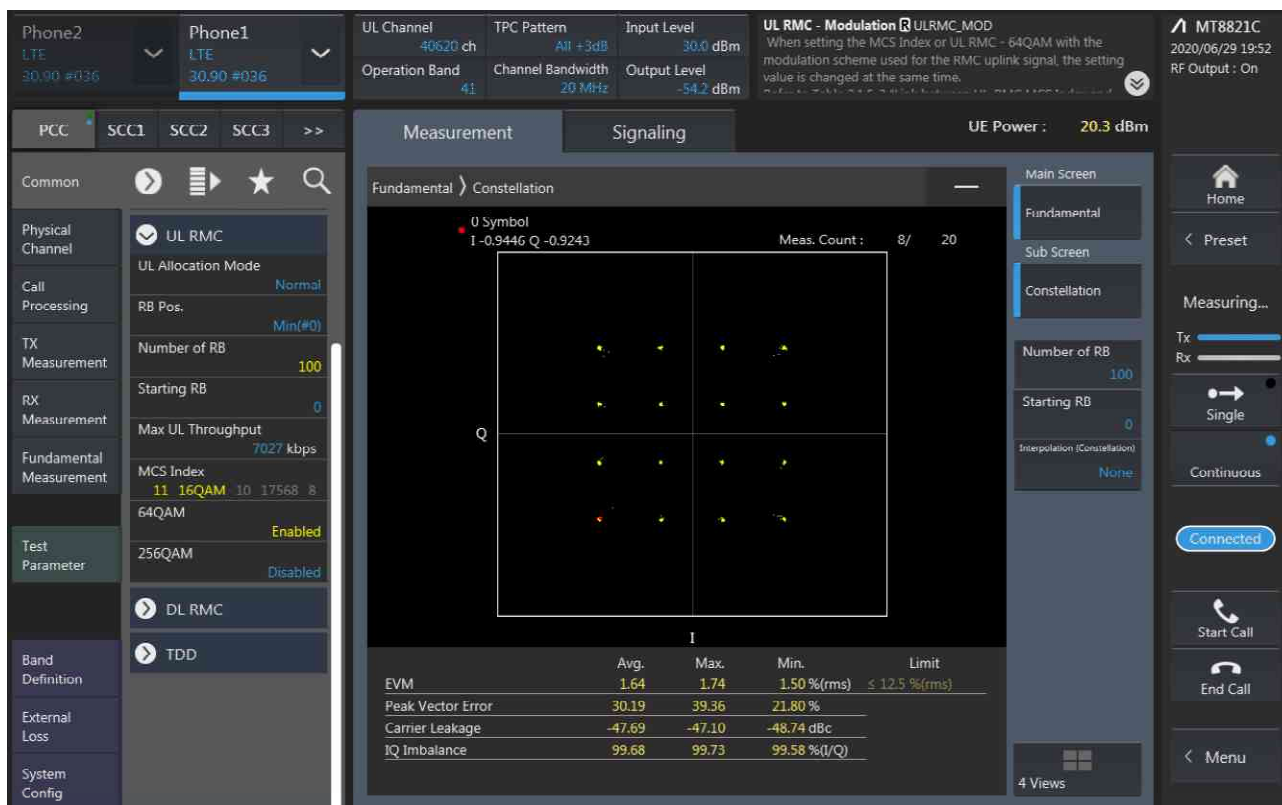
3.1.1. Test Channel = MCH





3.2. Test Mode = LTE /TM2 20MHz

3.2.1. Test Channel = MCH





4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41	5MHz	QPSK	40065	25RB#0	4.466	4.920	PASS
Band41	5MHz	QPSK	40640	25RB#0	4.456	4.880	PASS
Band41	5MHz	QPSK	41215	25RB#0	4.466	4.900	PASS
Band41	5MHz	16QAM	40065	25RB#0	4.486	4.870	PASS
Band41	5MHz	16QAM	40640	25RB#0	4.476	4.720	PASS
Band41	5MHz	16QAM	41215	25RB#0	4.476	4.720	PASS
Band41	10MHz	QPSK	40090	50RB#0	8.911	9.760	PASS
Band41	10MHz	QPSK	40640	50RB#0	8.911	9.860	PASS
Band41	10MHz	QPSK	41190	50RB#0	8.891	9.720	PASS
Band41	10MHz	16QAM	40090	50RB#0	8.931	9.580	PASS
Band41	10MHz	16QAM	40640	50RB#0	8.991	9.400	PASS
Band41	10MHz	16QAM	41190	50RB#0	8.931	9.620	PASS
Band41	15MHz	QPSK	40115	75RB#0	13.666	14.550	PASS
Band41	15MHz	QPSK	40640	75RB#0	13.576	14.760	PASS
Band41	15MHz	QPSK	41165	75RB#0	13.457	16.620	PASS
Band41	15MHz	16QAM	40115	75RB#0	13.457	15.600	PASS
Band41	15MHz	16QAM	40640	75RB#0	13.457	15.450	PASS
Band41	15MHz	16QAM	41165	75RB#0	13.427	14.790	PASS
Band41	20MHz	QPSK	40140	100RB#0	17.902	21.040	PASS
Band41	20MHz	QPSK	40640	100RB#0	17.902	19.960	PASS
Band41	20MHz	QPSK	41140	100RB#0	18.262	19.320	PASS
Band41	20MHz	16QAM	40140	100RB#0	17.942	18.680	PASS
Band41	20MHz	16QAM	40640	100RB#0	17.862	20.080	PASS
Band41	20MHz	16QAM	41140	100RB#0	17.902	19.960	PASS



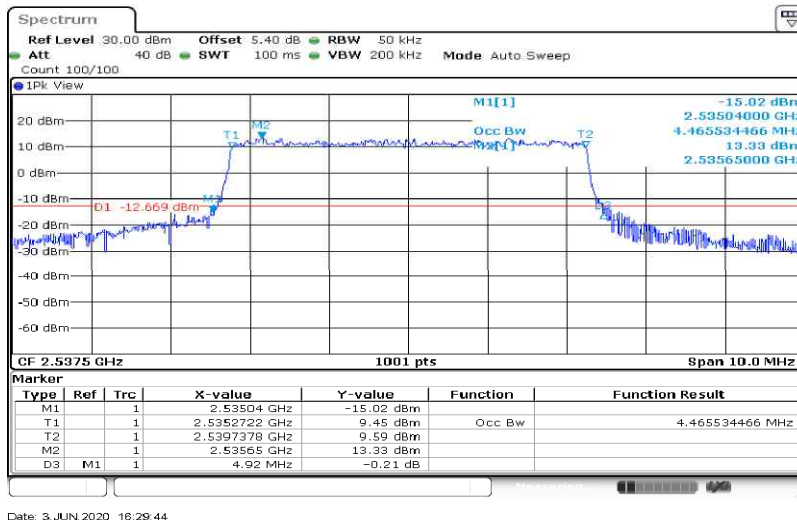
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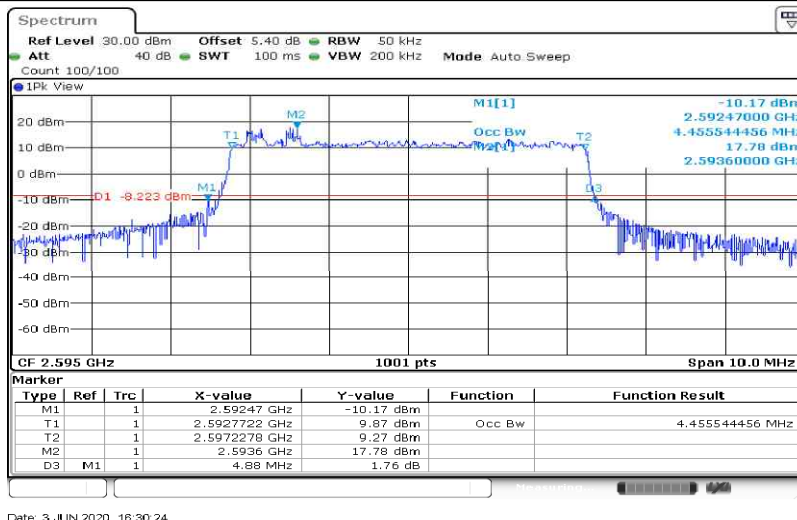


4.2. Test Plots

Band41-5MHz-QPSK-40065-25RB#0-4.466



Band41-5MHz-QPSK-40640-25RB#0-4.456



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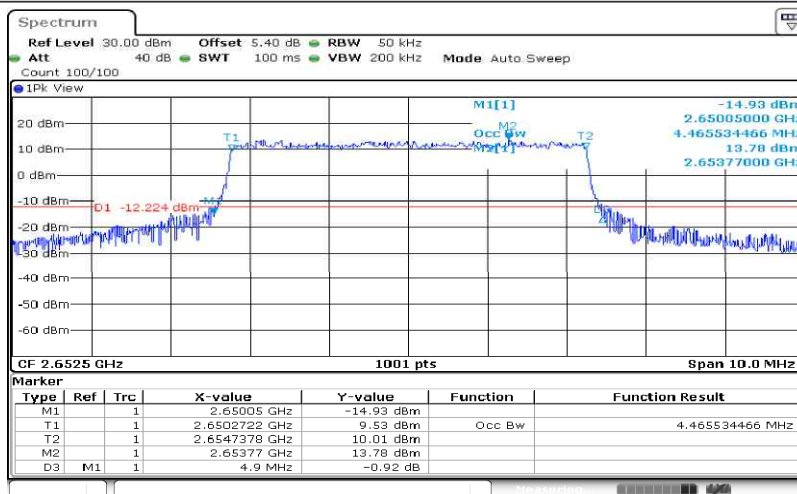
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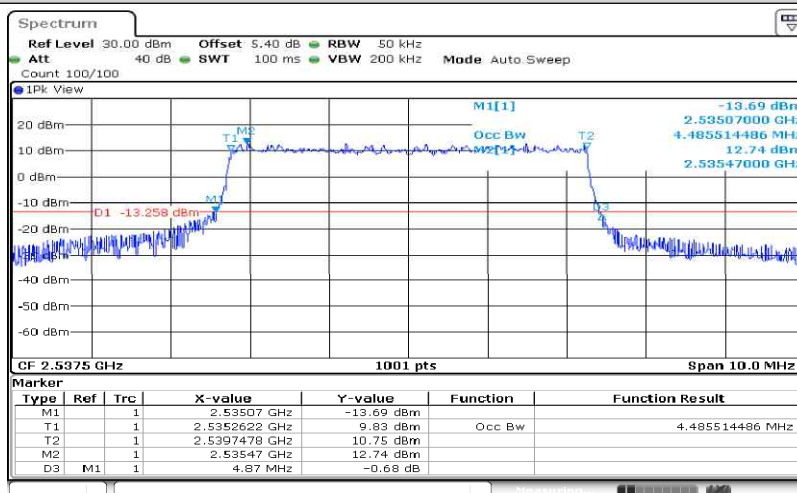


Band41-5MHz-QPSK-41215-25RB#0-4.466



Date: 3 JUN 2020 16:31:03

Band41-5MHz-16QAM-40065-25RB#0-4.486



Date: 3 JUN 2020 16:30:04



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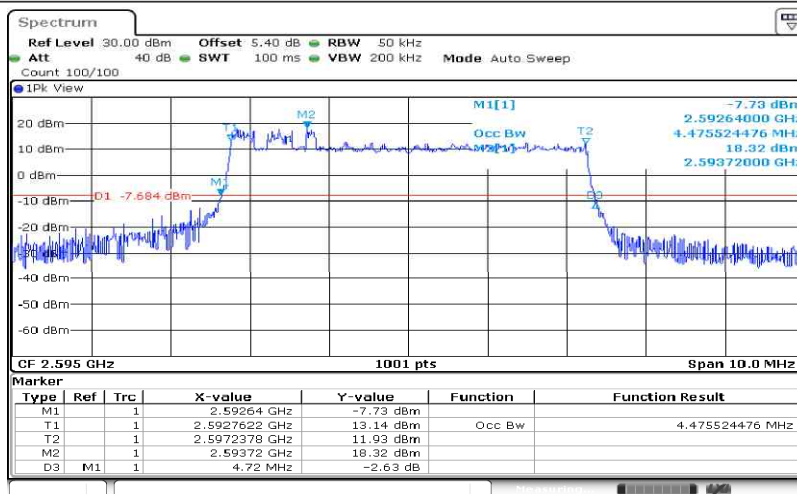
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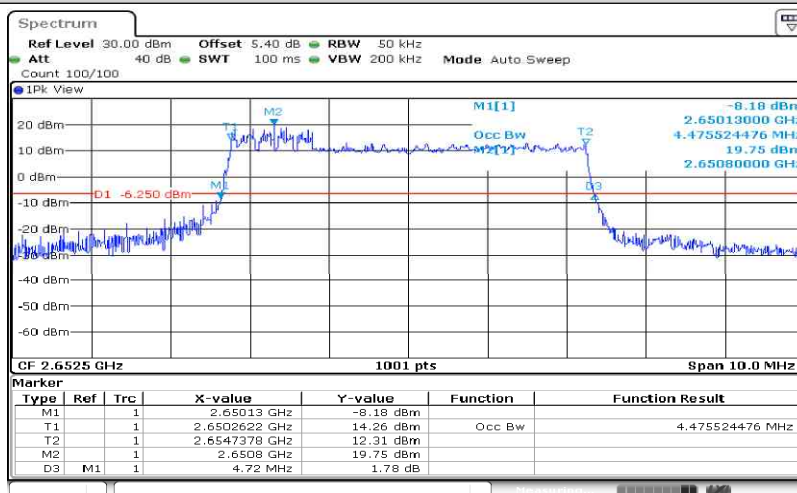
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Band41-5MHz-16QAM-40640-25RB#0-4.476



Band41-5MHz-16QAM-41215-25RB#0-4.476

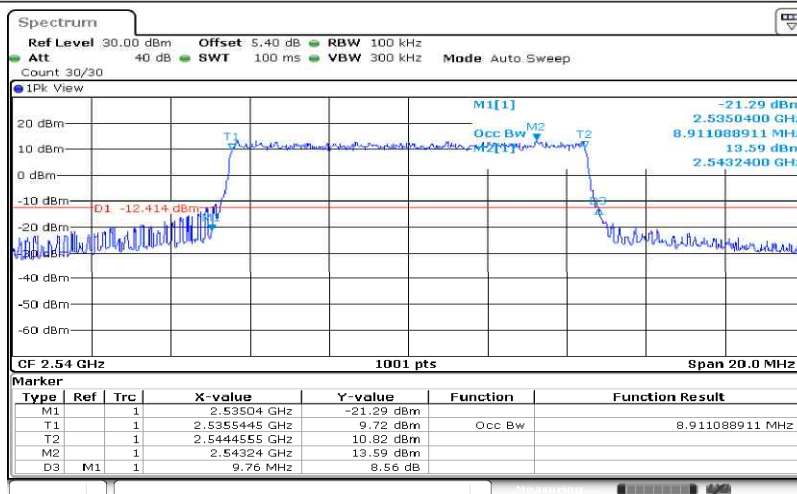


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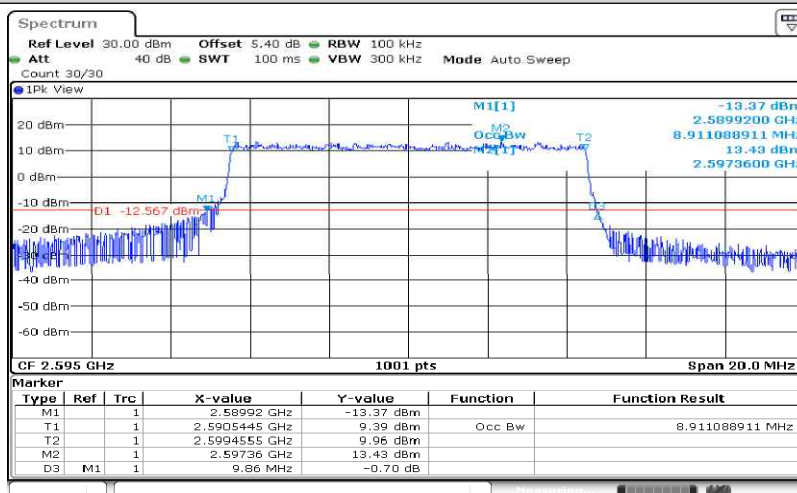


Band41-10MHz-QPSK-40090-50RB#0-8.911



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Band41-10MHz-QPSK-40640-50RB#0-8.911



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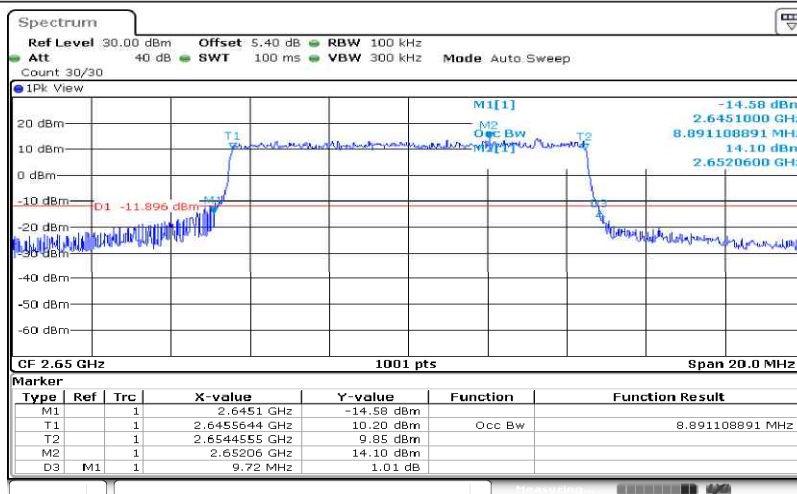
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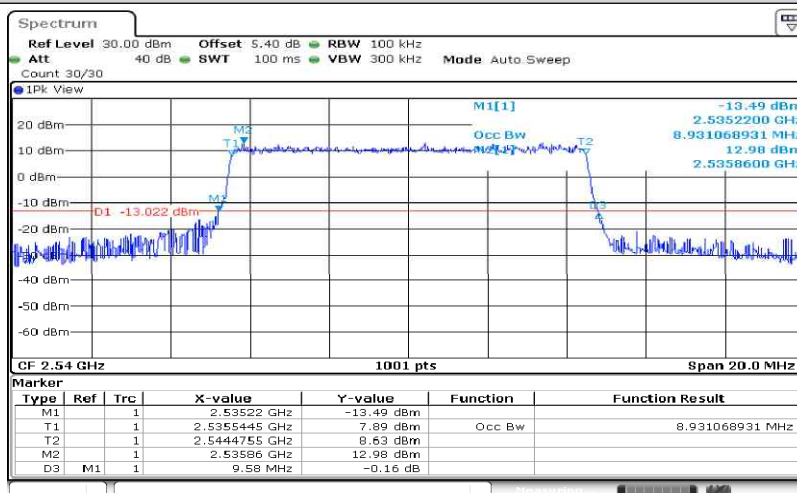


Band41-10MHz-QPSK-41190-50RB#0-8.891



Date: 3 JUN 2020 16:32:35

Band41-10MHz-16QAM-40090-50RB#0-8.931



Date: 3 JUN 2020 16:31:55



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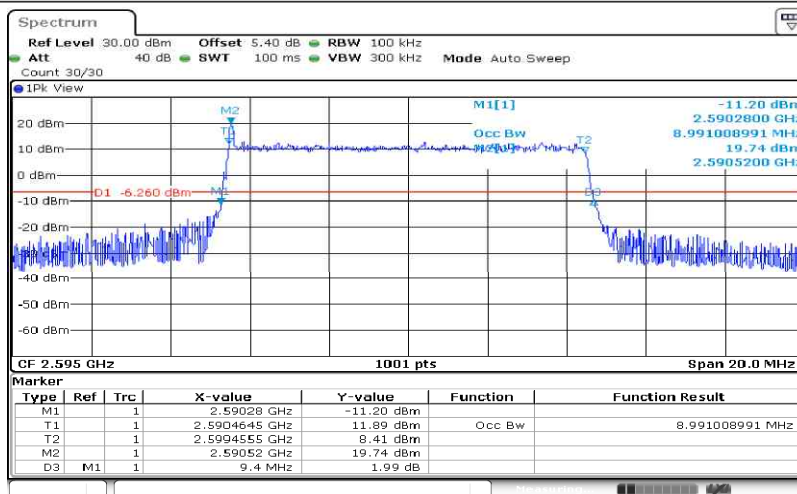
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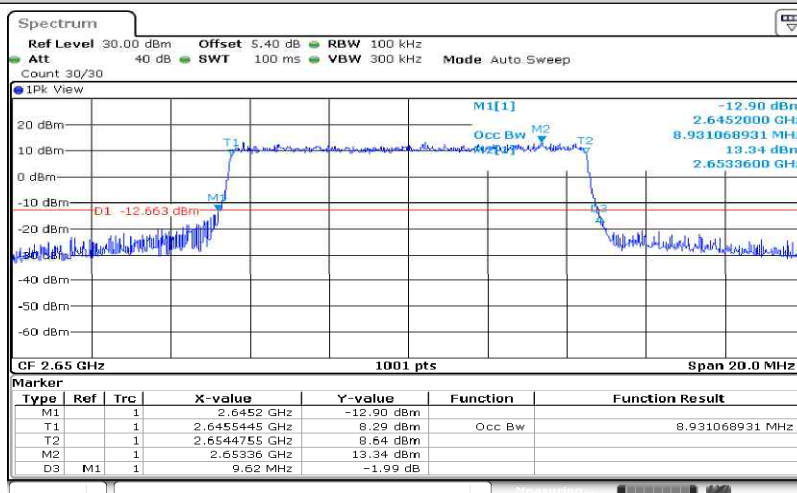


Band41-10MHz-16QAM-40640-50RB#0-8.991



Date: 3 JUN 2020 16:32:21

Band41-10MHz-16QAM-41190-50RB#0-8.931



Date: 3 JUN 2020 16:32:47



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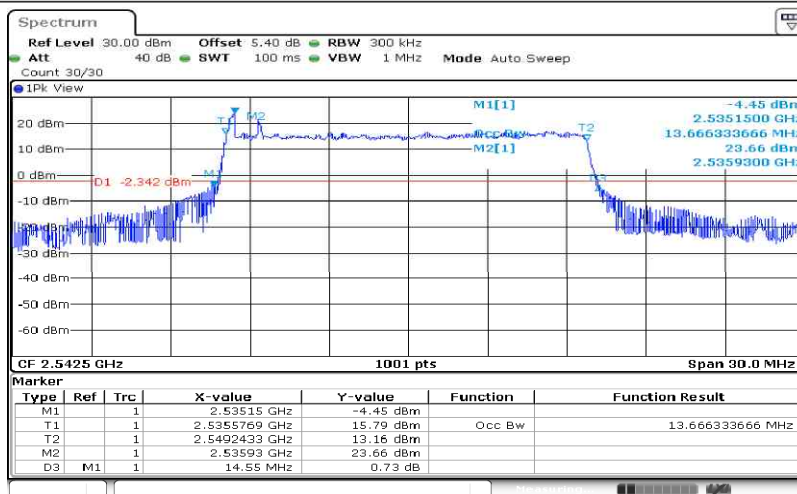
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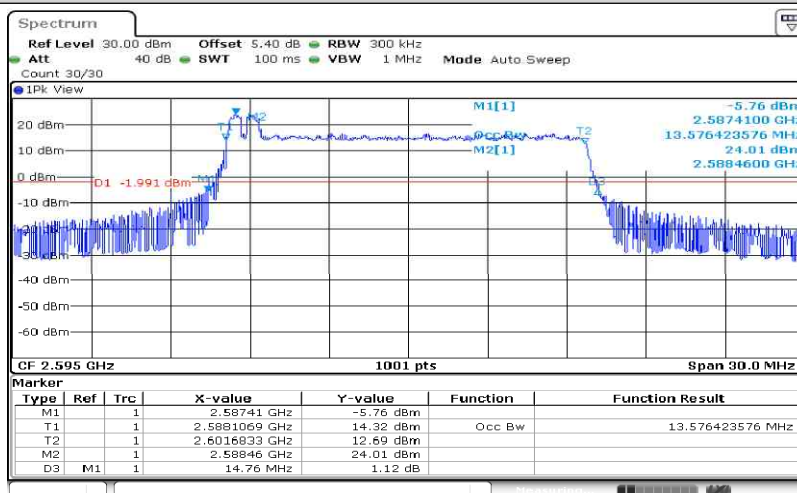


Band41-15MHz-QPSK-40115-75RB#0-13.666



Date: 3 JUN 2020 16:33:06

Band41-15MHz-QPSK-40640-75RB#0-13.576



Date: 3 JUN 2020 16:33:32



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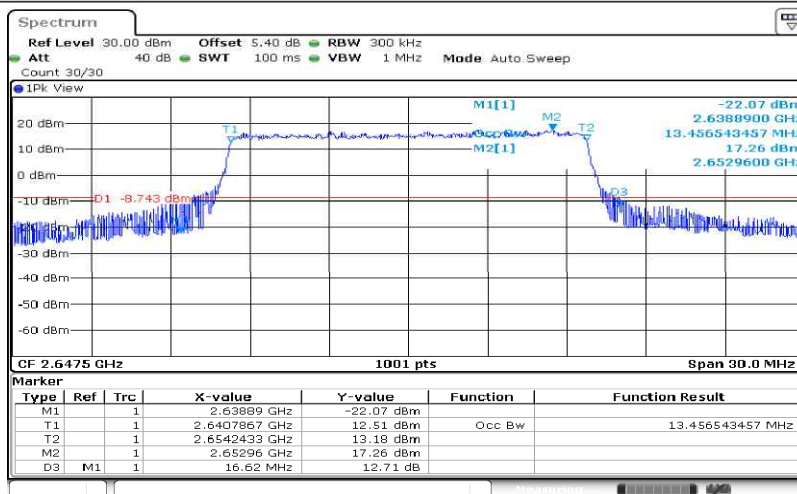
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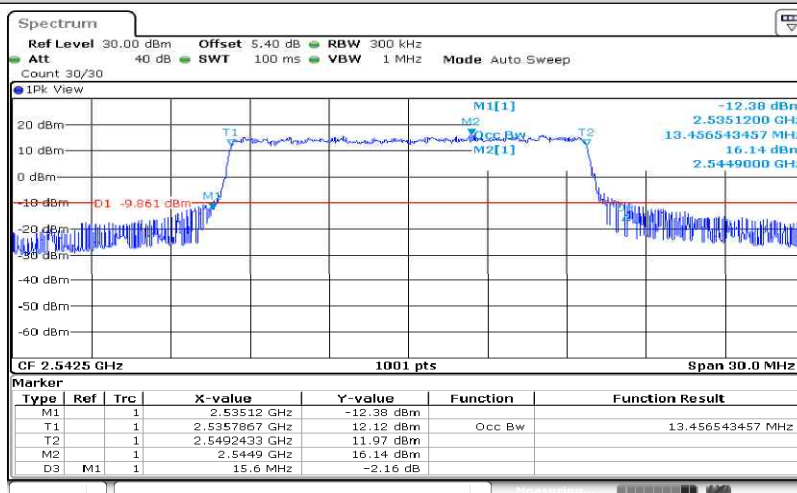


Band41-15MHz-QPSK-41165-75RB#0-13.457



Date: 3 JUN 2020 16:33:59

Band41-15MHz-16QAM-40115-75RB#0-13.457



Date: 3 JUN 2020 16:33:19

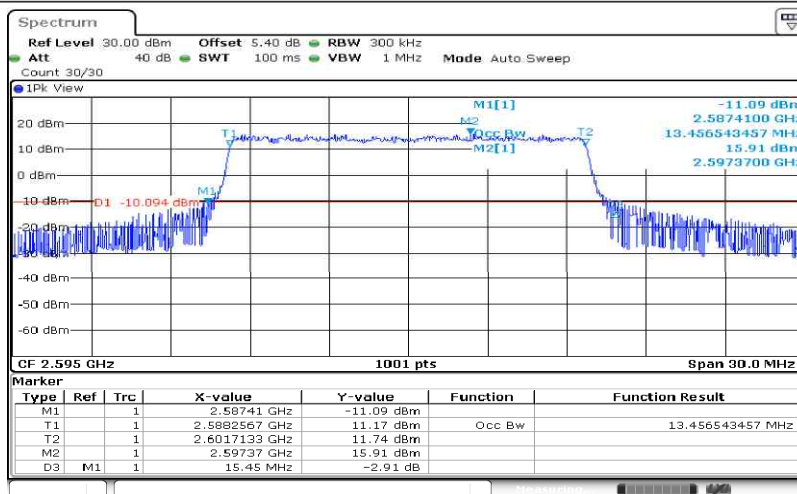


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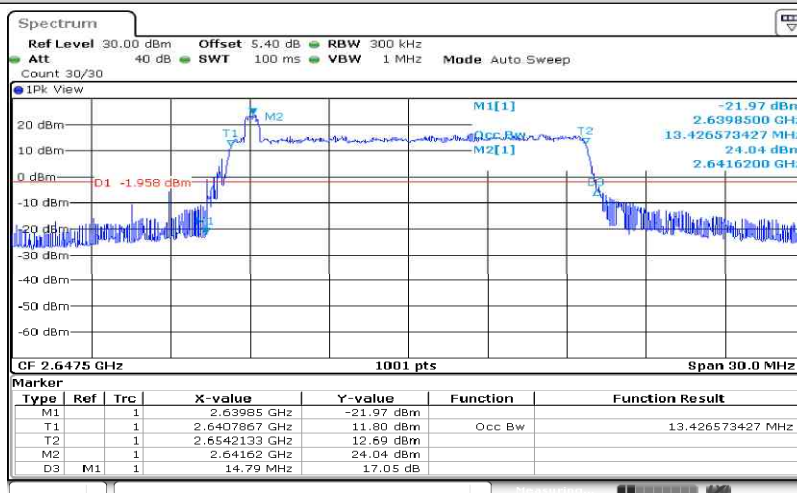


Band41-15MHz-16QAM-40640-75RB#0-13.457



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Band41-15MHz-16QAM-41165-75RB#0-13.427



Date: 3 JUN 2020 16:34:11



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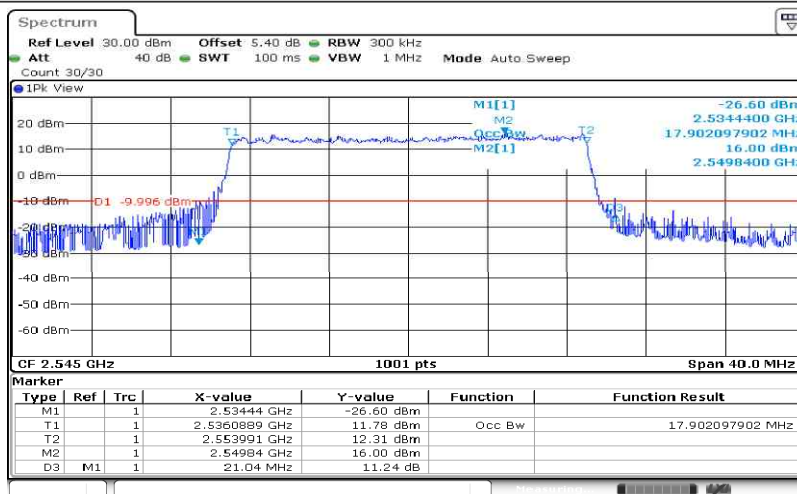
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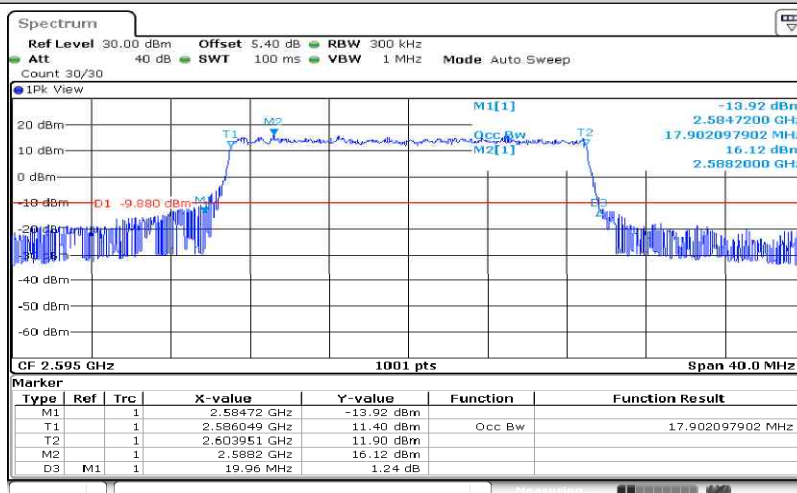


Band41-20MHz-QPSK-40140-100RB#0-17.902



Date: 3 JUN 2020 16:34:30

Band41-20MHz-QPSK-40640-100RB#0-17.902



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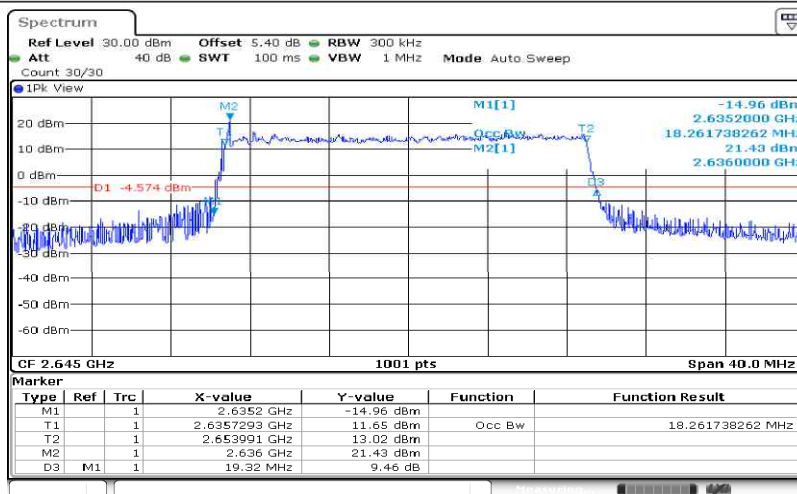
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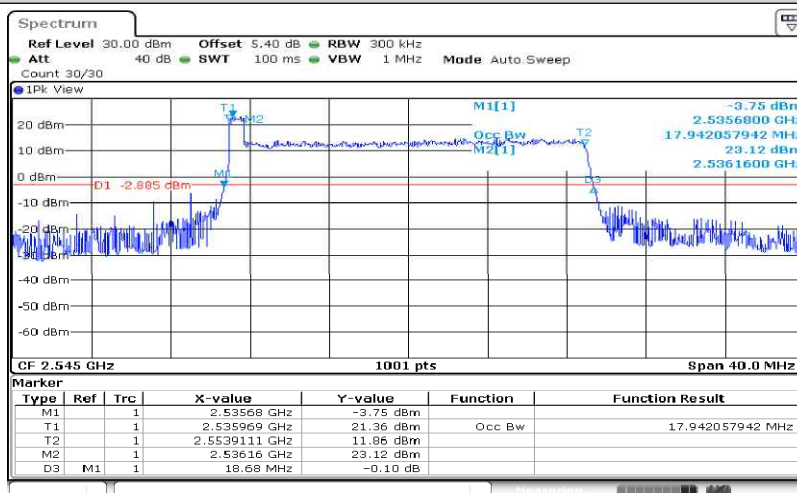


Band41-20MHz-QPSK-41140-100RB#0-18.262



Date: 3 JUN 2020 16:35:21

Band41-20MHz-16QAM-40140-100RB#0-17.942



Date: 3 JUN 2020 16:34:42



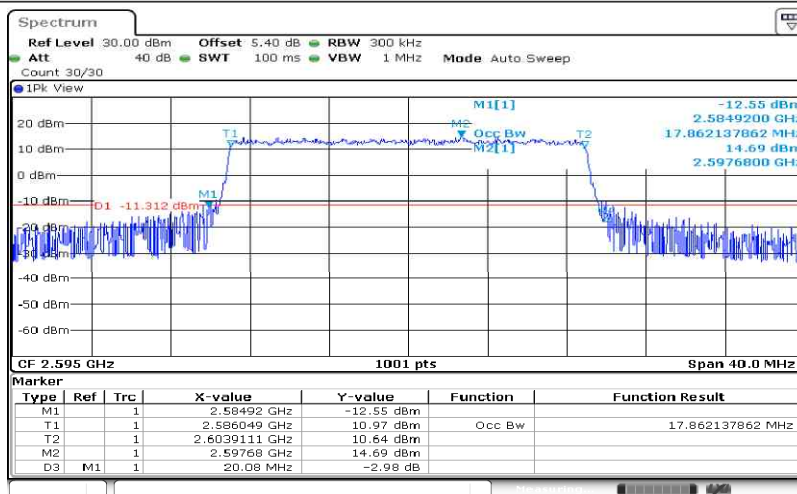
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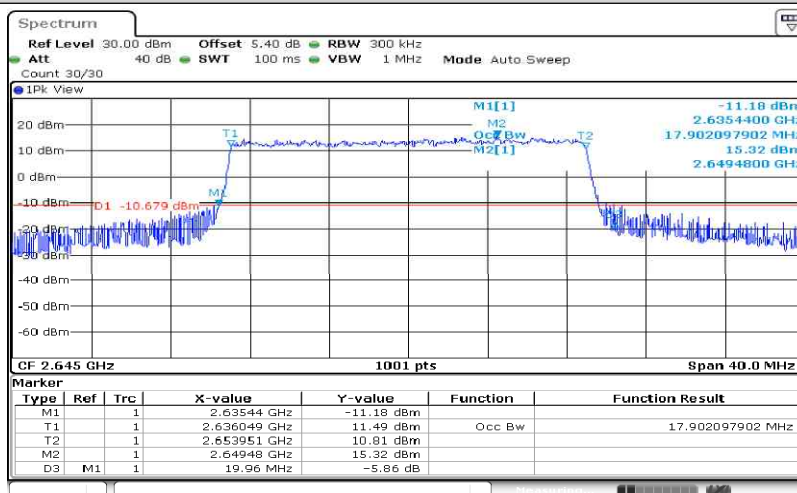


Band41-20MHz-16QAM-40640-100RB#0-17.862



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Band41-20MHz-16QAM-41140-100RB#0-17.902



Date: 3 JUN 2020 16:35:34



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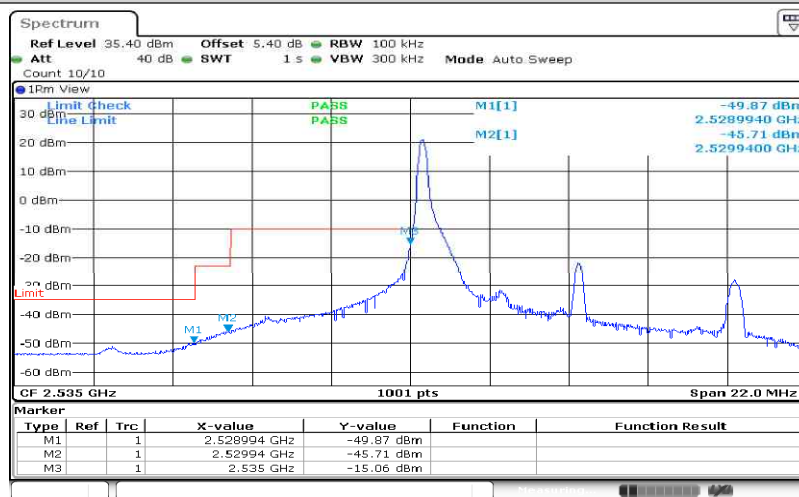
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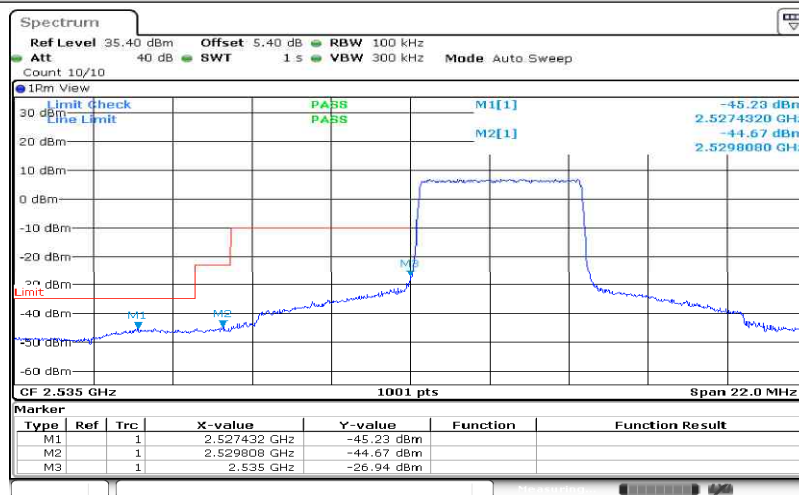
5.1. Test Plots

Band41-5MHz-QPSK-40065-1RB#0



Date: 3 JUN 2020 16:36:02

Band41-5MHz-QPSK-40065-25RB#0

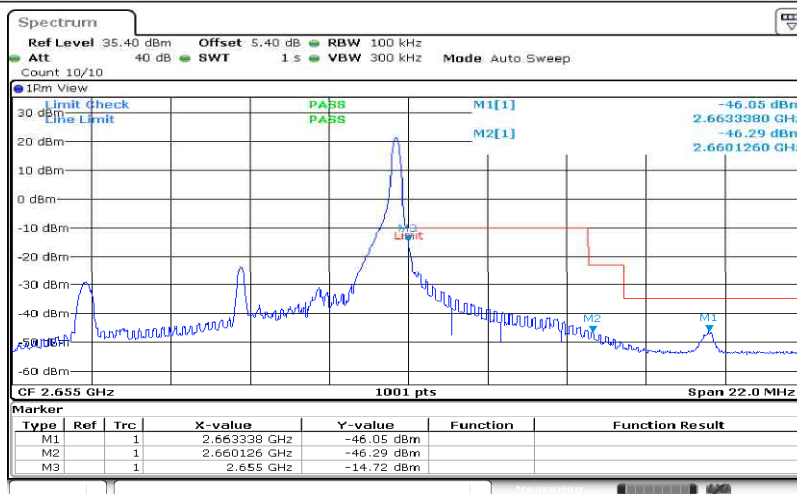


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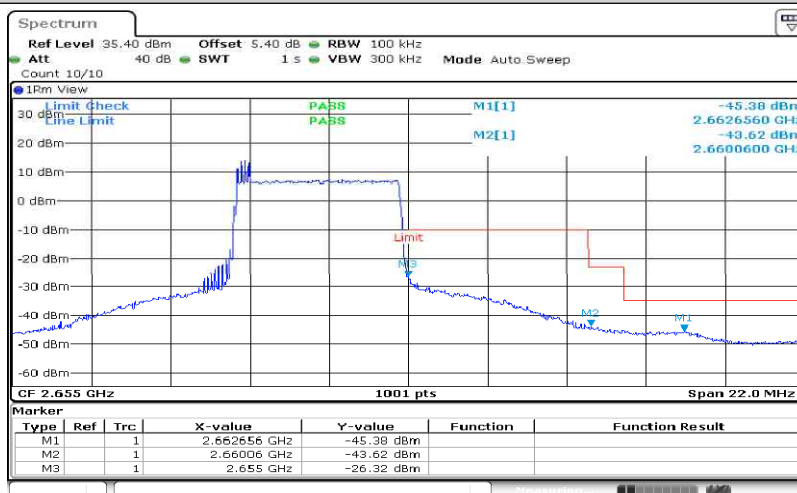


Band41-5MHz-QPSK-41215-1RB#24



Date: 3 JUN 2020 16:36:50

Band41-5MHz-QPSK-41215-25RB#0



Date: 3 JUN 2020 16:38:21

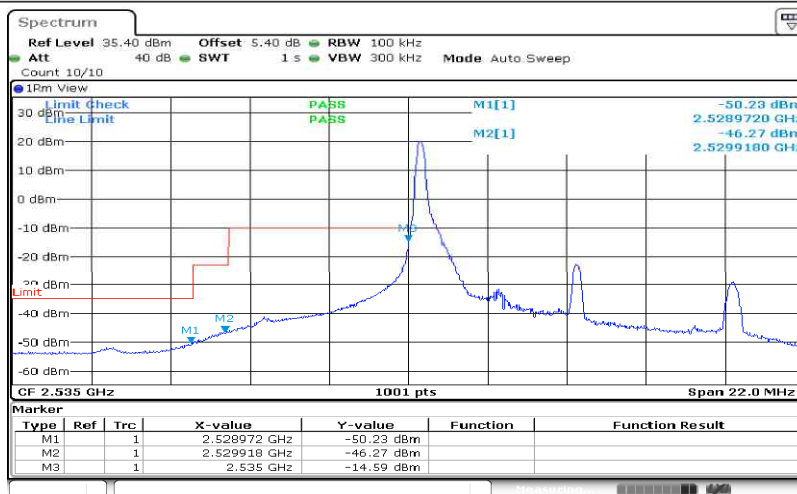


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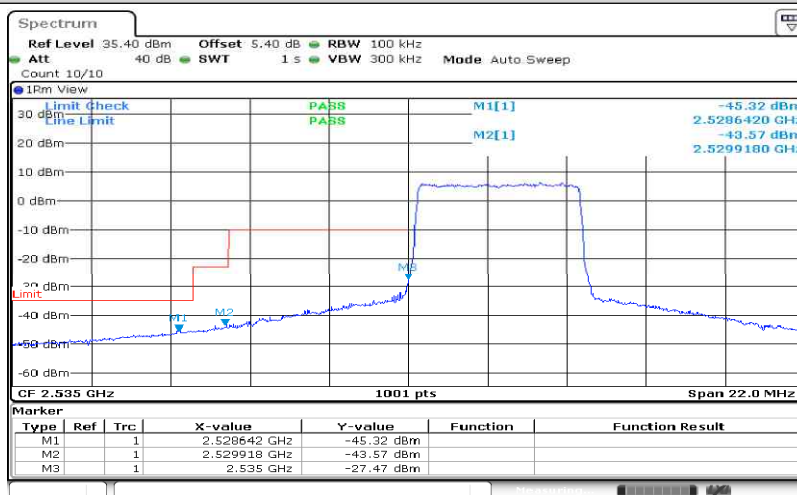
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Band41-5MHz-16QAM-40065-1RB#0



Band41-5MHz-16QAM-40065-25RB#0



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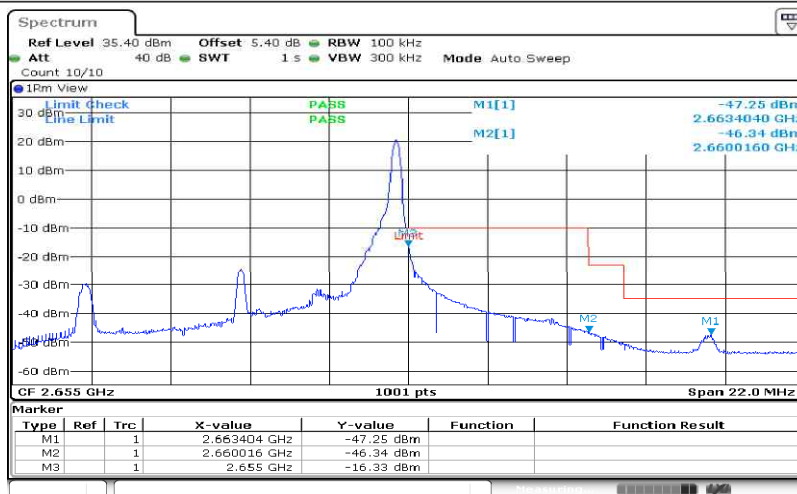
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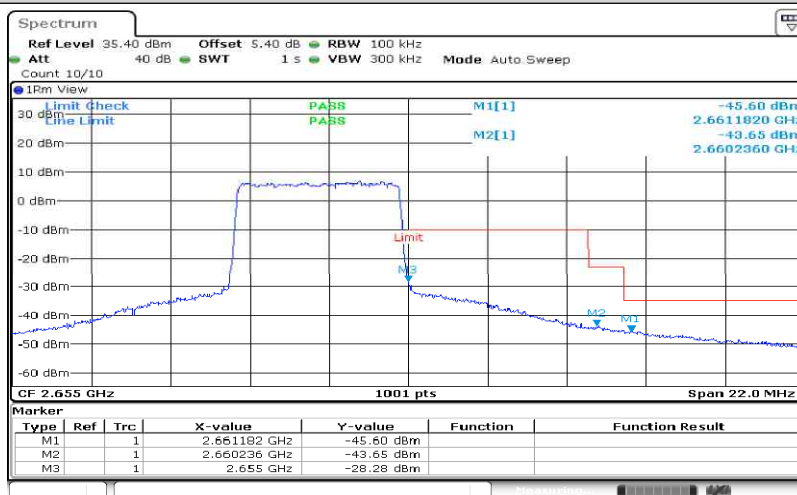
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Band41-5MHz-16QAM-41215-1RB#24



Band41-5MHz-16QAM-41215-25RB#0



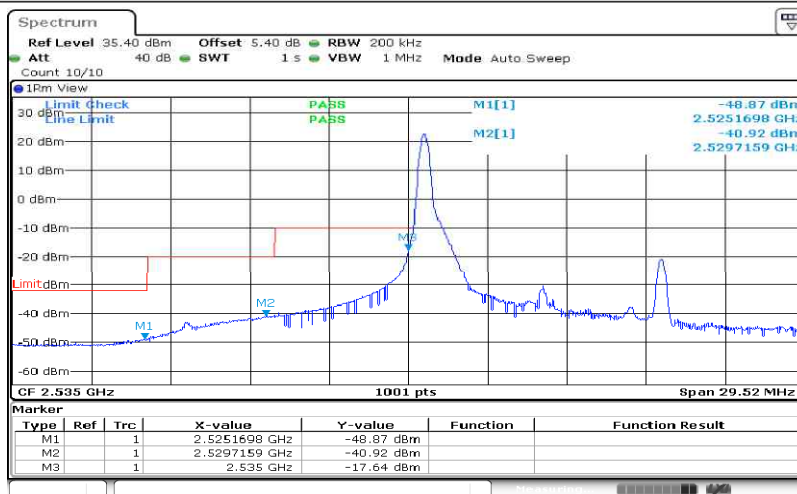
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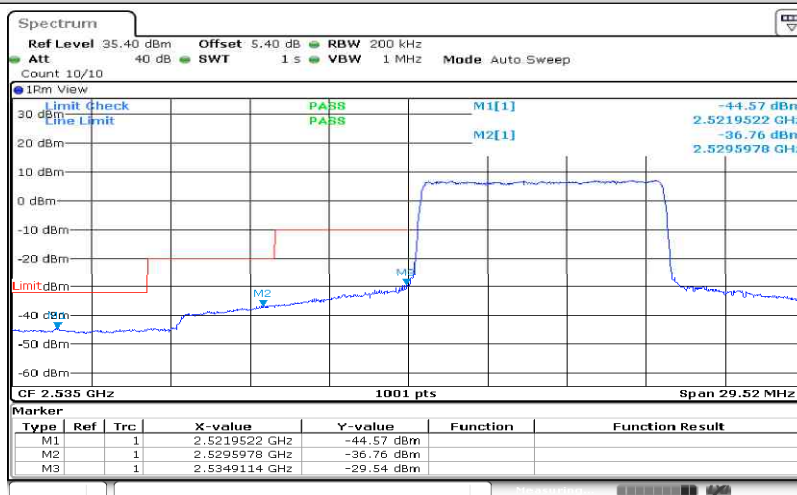
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Band41-10MHz-QPSK-40090-1RB#0



Band41-10MHz-QPSK-40090-50RB#0



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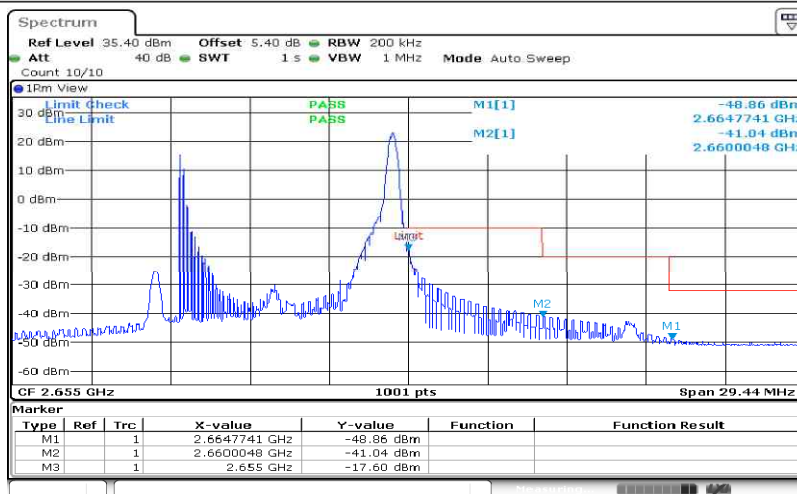
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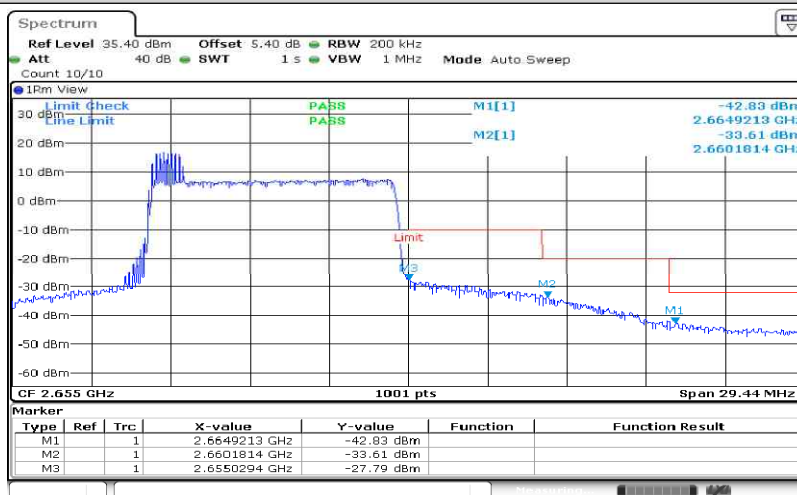
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Band41-10MHz-QPSK-41190-1RB#49



Band41-10MHz-QPSK-41190-50RB#0

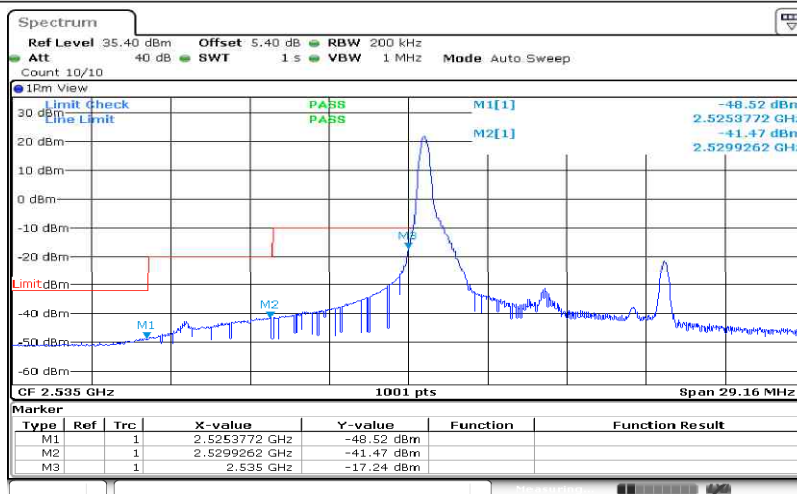


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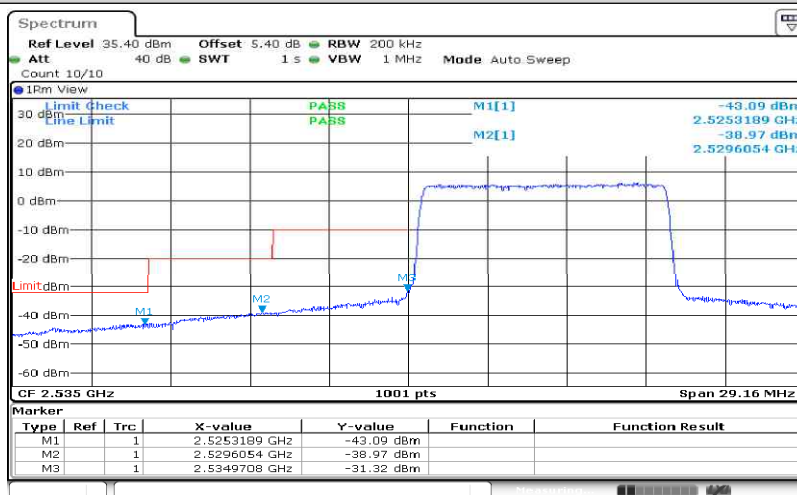
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Band41-10MHz-16QAM-40090-1RB#0



Band41-10MHz-16QAM-40090-50RB#0



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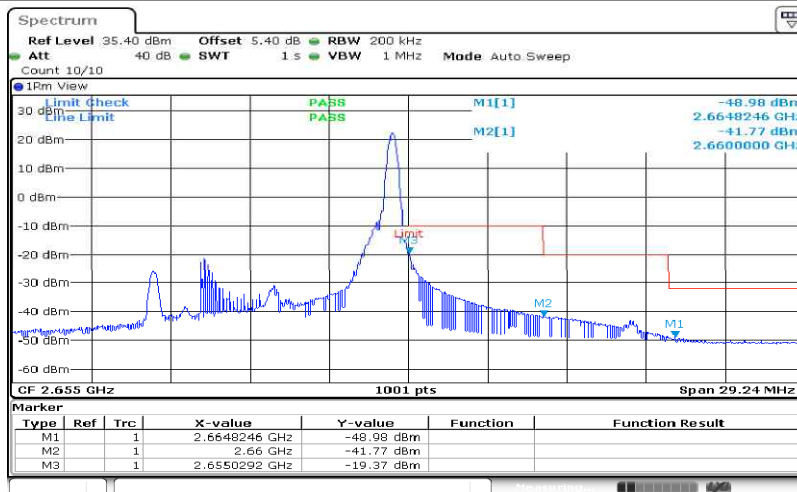
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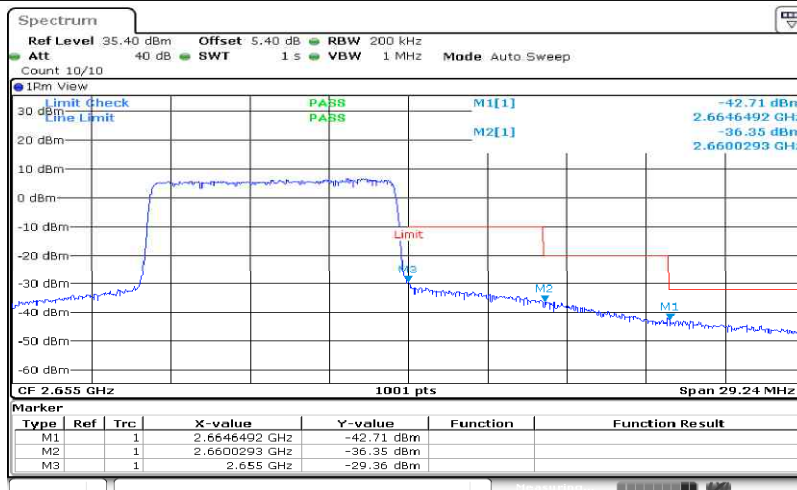
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Band41-10MHz-16QAM-41190-1RB#49



Band41-10MHz-16QAM-41190-50RB#0



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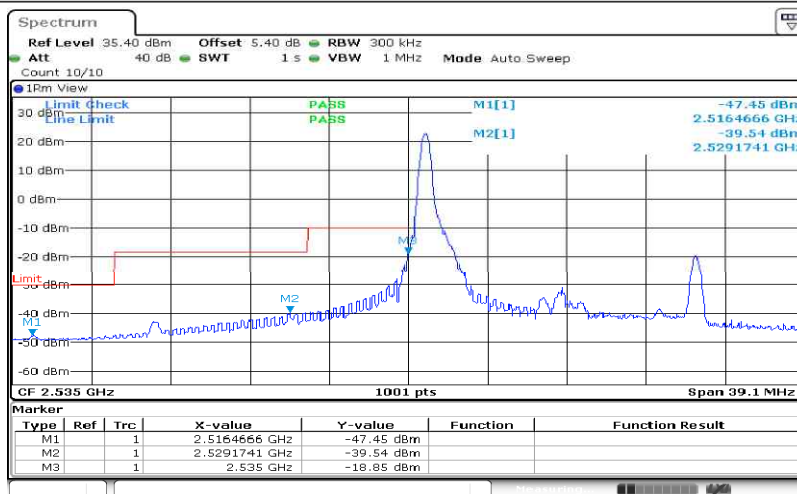
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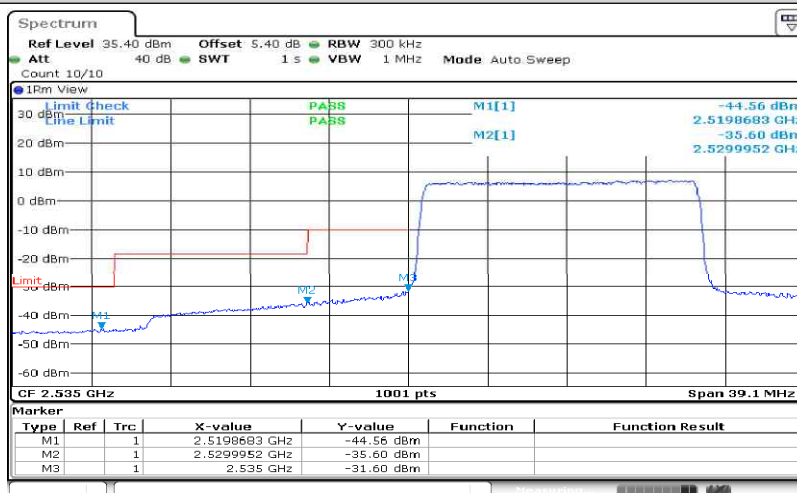


Band41-15MHz-QPSK-40115-1RB#0



Date: 3 JUN 2020 16:42:20

Band41-15MHz-QPSK-40115-75RB#0



Date: 3 JUN 2020 16:43:55

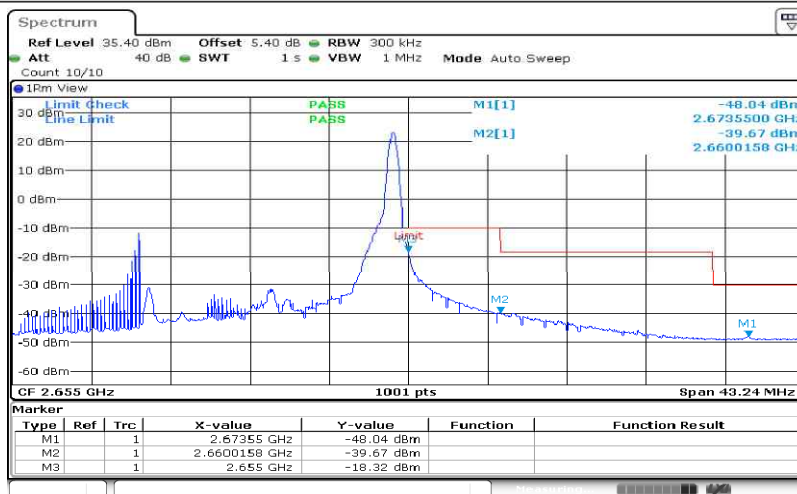


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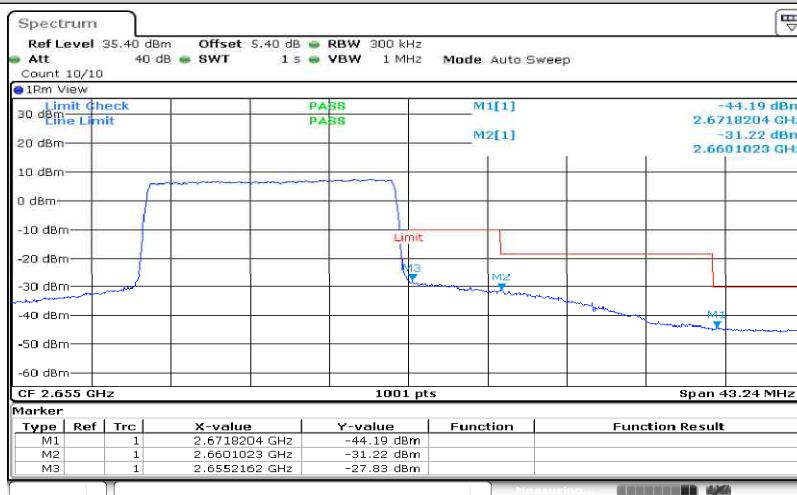
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Band41-15MHz-QPSK-41165-1RB#74



Band41-15MHz-QPSK-41165-75RB#0



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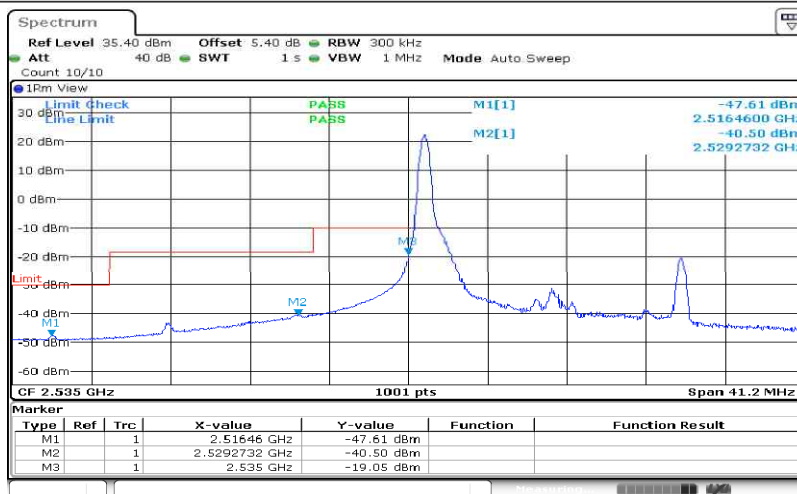
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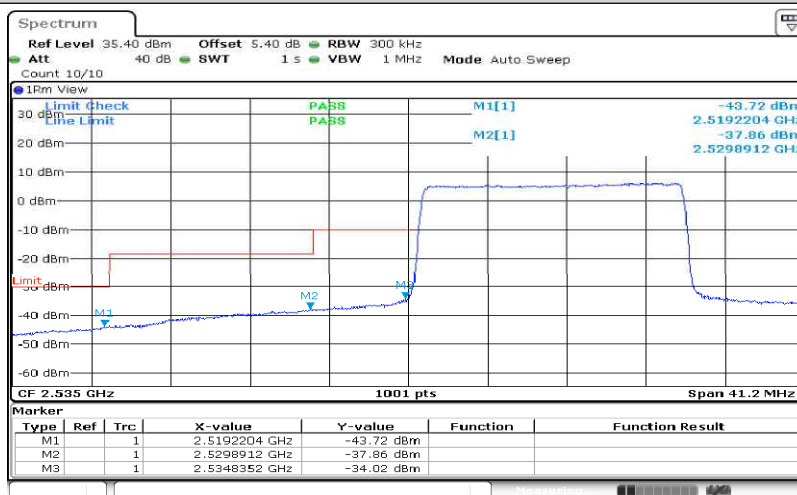
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Band41-15MHz-16QAM-40115-1RB#0



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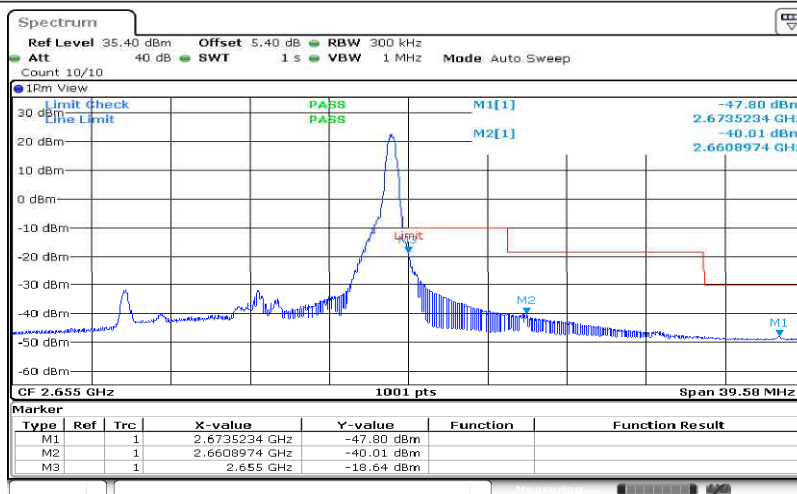
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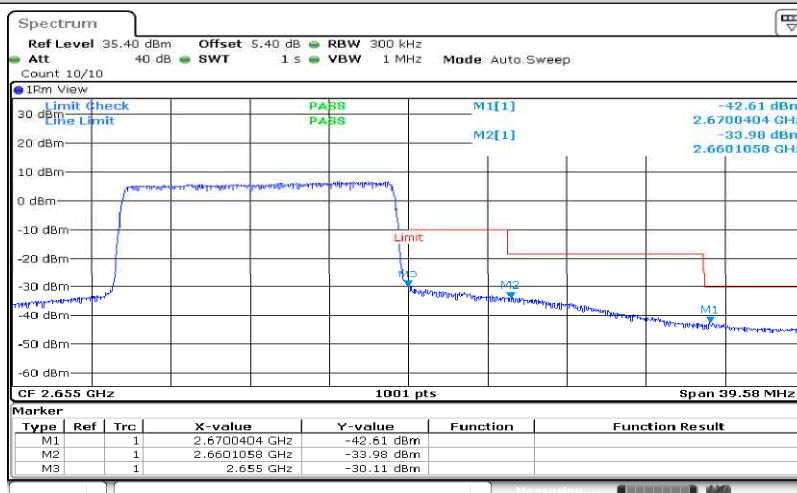
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Band41-15MHz-16QAM-41165-75RB#0

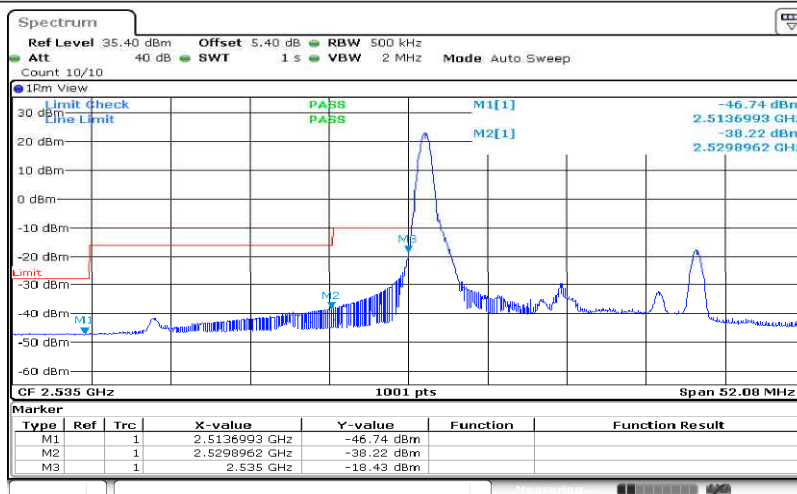


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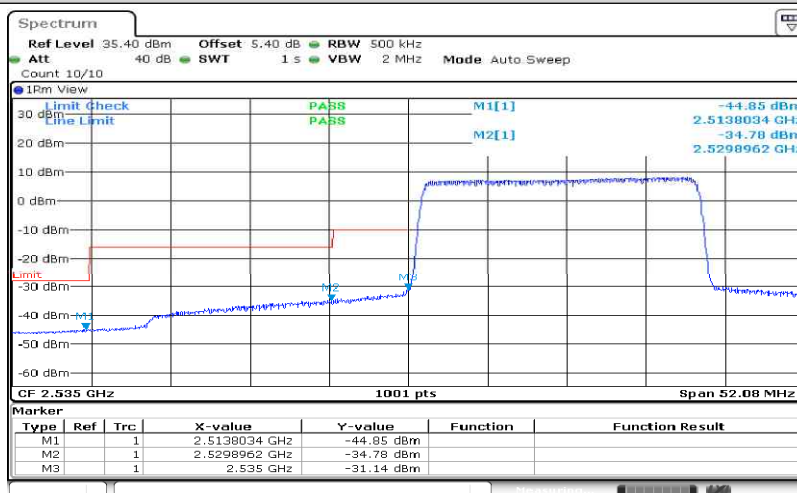


Band41-20MHz-QPSK-40140-1RB#0



Date: 3 JUN 2020 16:45:29

Band41-20MHz-QPSK-40140-100RB#0



Date: 3 JUN 2020 16:47:04



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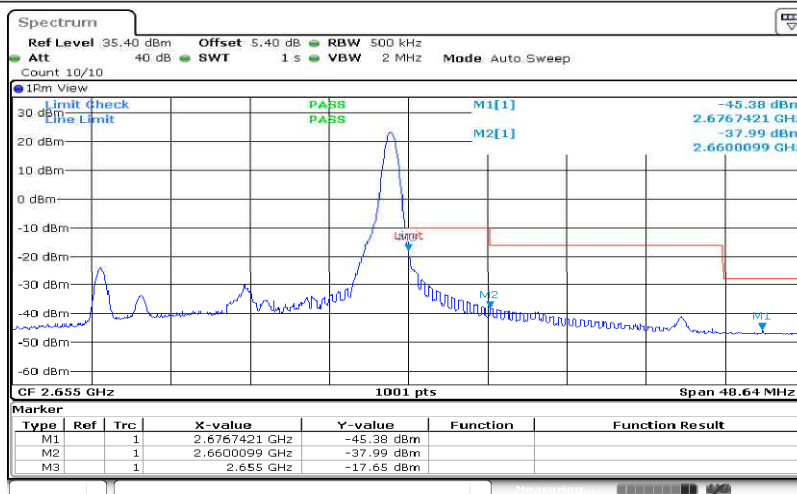
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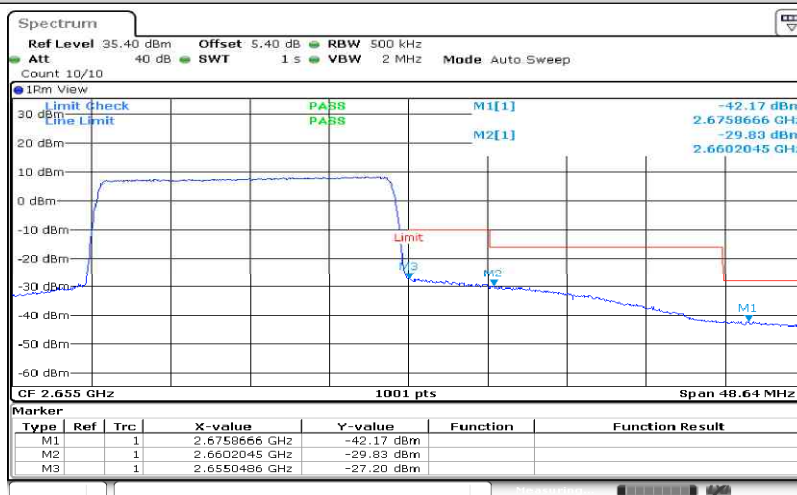
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Band41-20MHz-QPSK-41140-100RB#0



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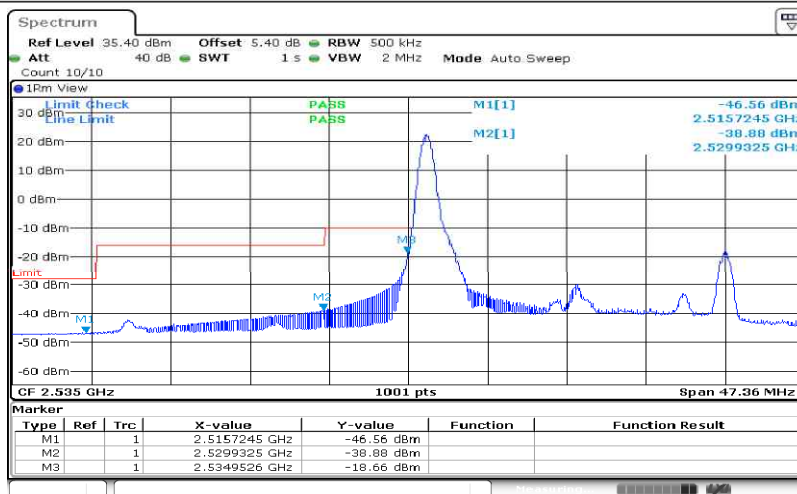
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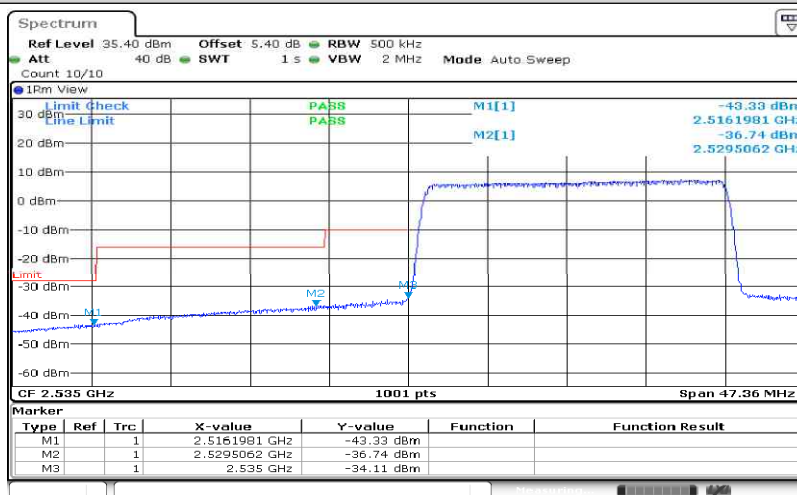
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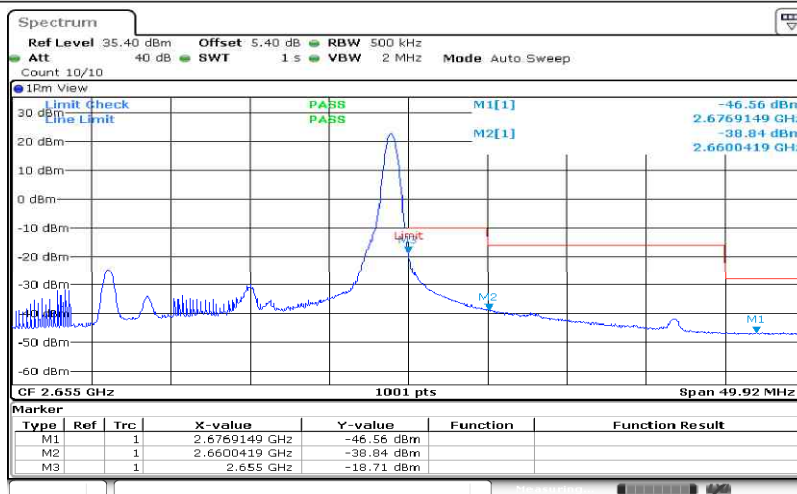
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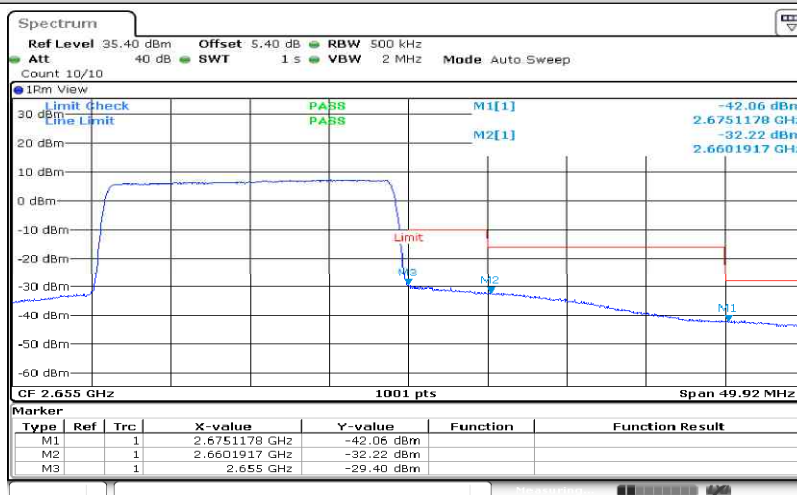
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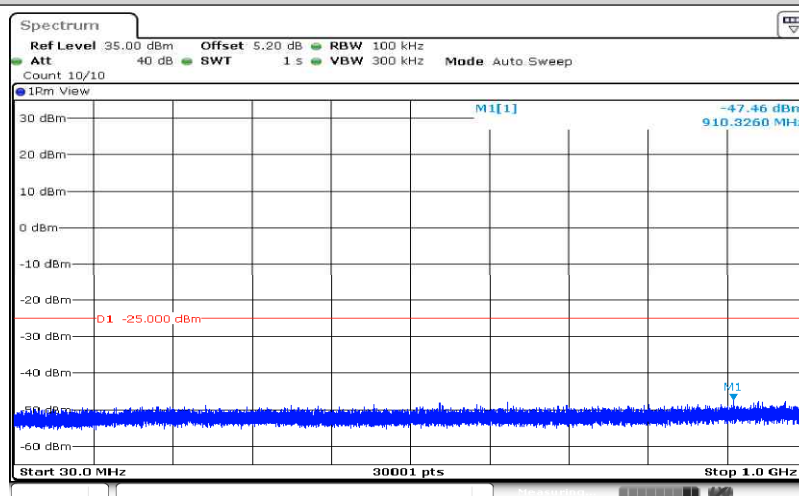
6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (\text{Span} / RBW)$ " 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.

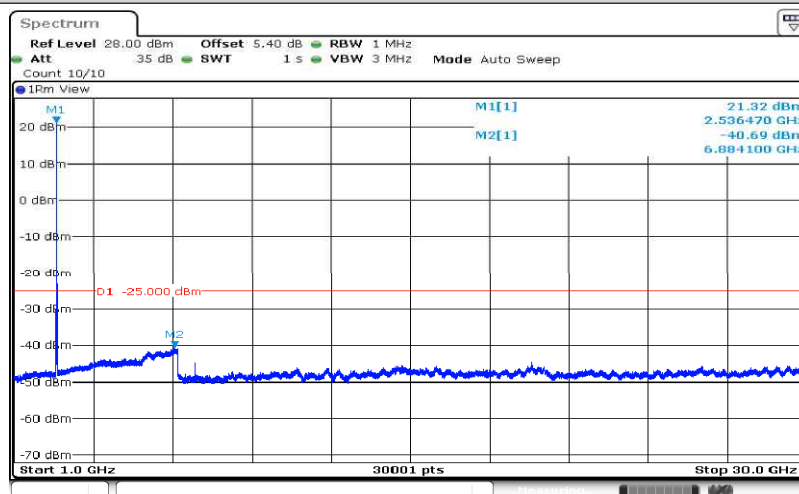
6.1. Test Plots

Band41-20MHz-QPSK-40140-1RB#0-Range1:30~1000MHz



Date: 3 JUN 2020 16:48:33

Band41-20MHz-QPSK-40140-1RB#0-Range2:1000~30000MHz

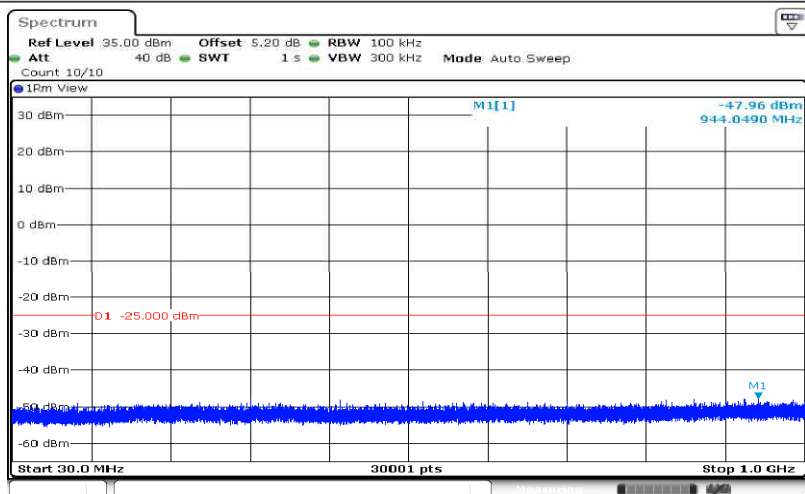


Date: 3 JUN 2020 16:48:49



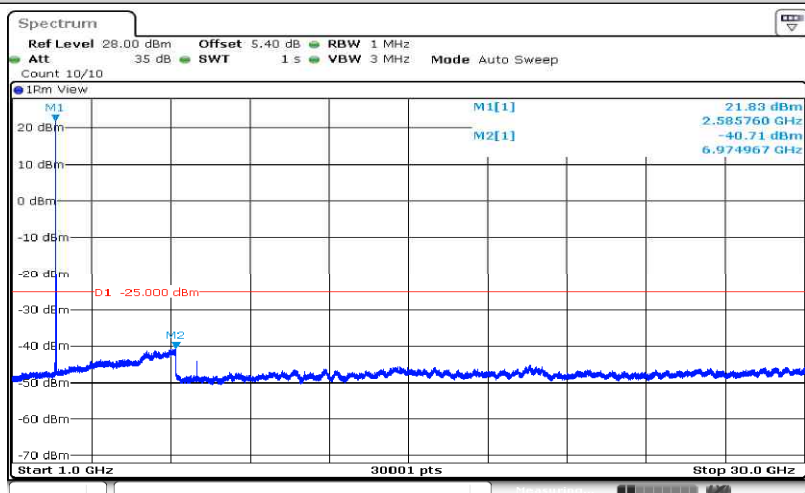


Band41-20MHz-QPSK-40640-1RB#0-Range1:30~1000MHz



Date: 3 JUN 2020 16:49:43

Band41-20MHz-QPSK-40640-1RB#0-Range2:1000~30000MHz



Date: 3 JUN 2020 16:50:00



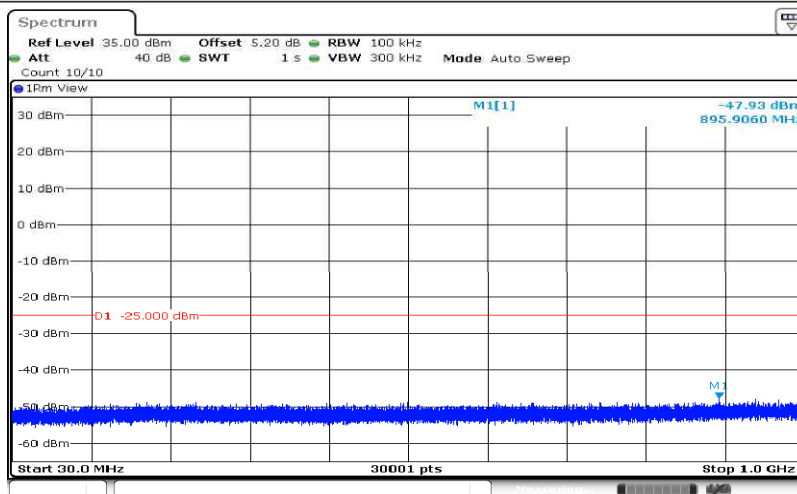
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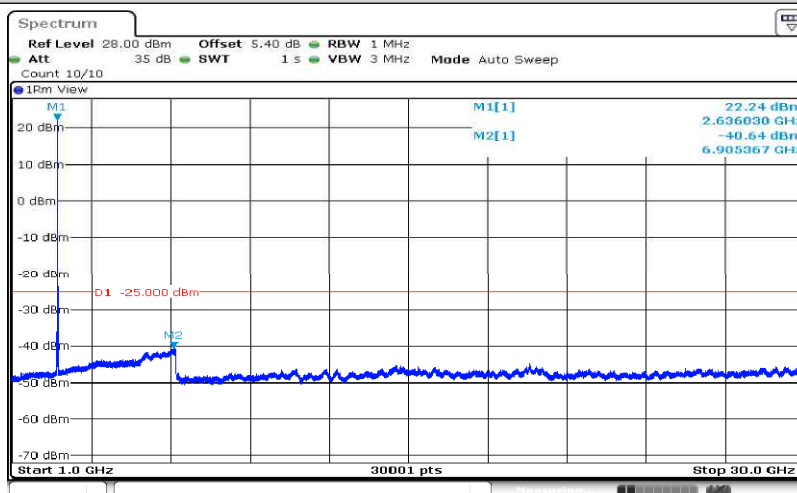


Band41-20MHz-QPSK-41140-1RB#0-Range1:30~1000MHz



Date: 3 JUN 2020 16:50:54

Band41-20MHz-QPSK-41140-1RB#0-Range2:1000~30000MHz



Date: 3 JUN 2020 16:51:10



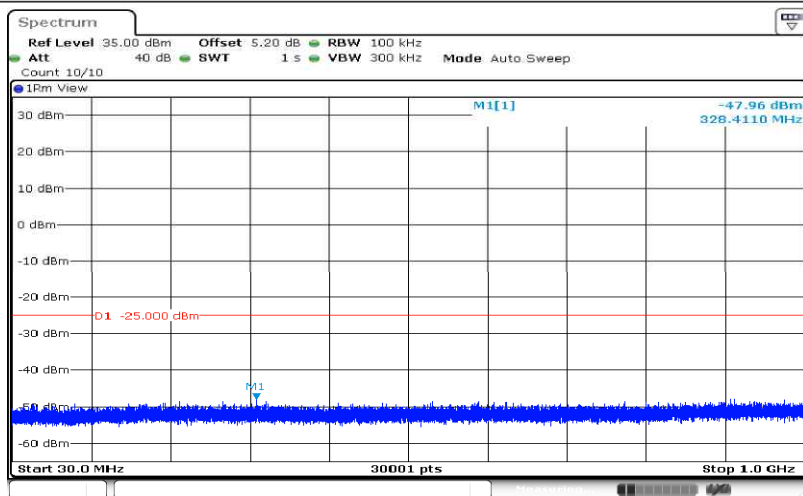
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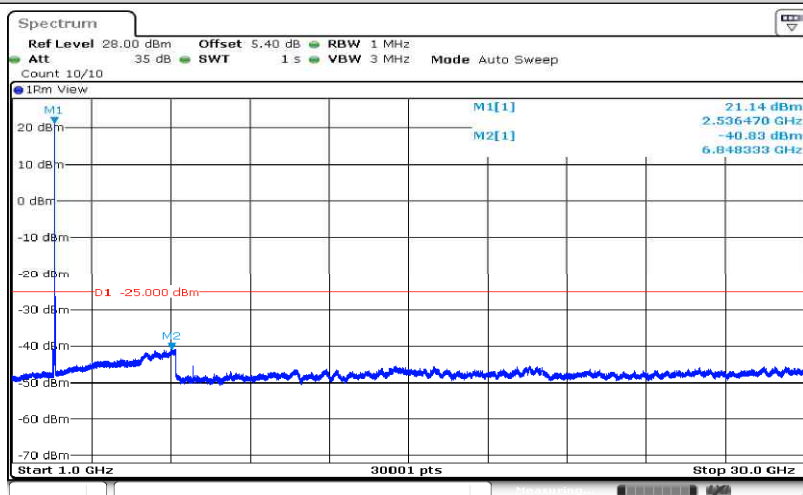


Band41-20MHz-16QAM-40140-1RB#0-Range1:30~1000MHz



Date: 3 JUN 2020 16:49:08

Band41-20MHz-16QAM-40140-1RB#0-Range2:1000~30000MHz



Date: 3 JUN 2020 16:49:24



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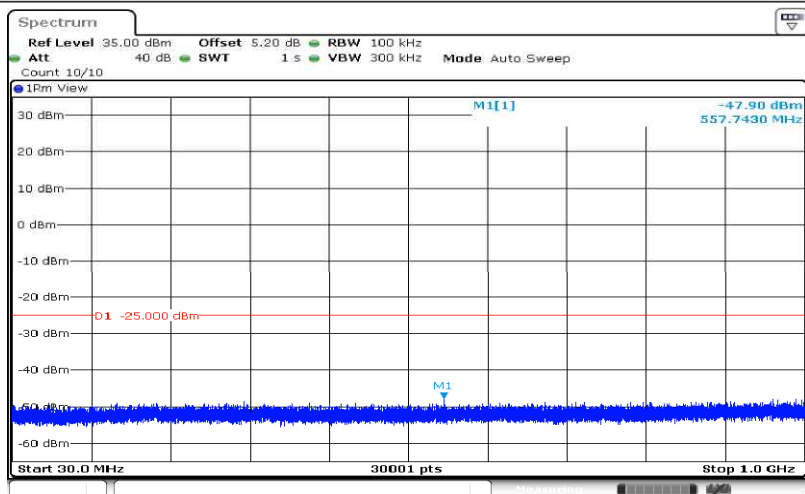
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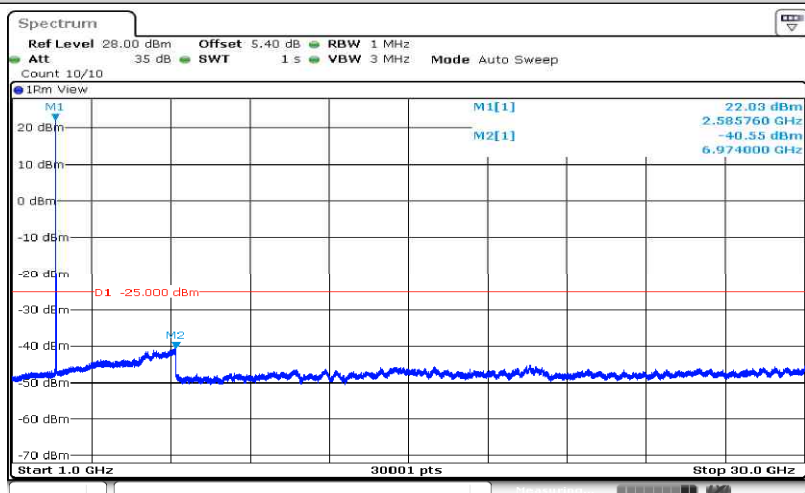


Band41-20MHz-16QAM-40640-1RB#0-Range1:30~1000MHz



Date: 3 JUN 2020 16:50:18

Band41-20MHz-16QAM-40640-1RB#0-Range2:1000~30000MHz



Date: 3 JUN 2020 16:50:35



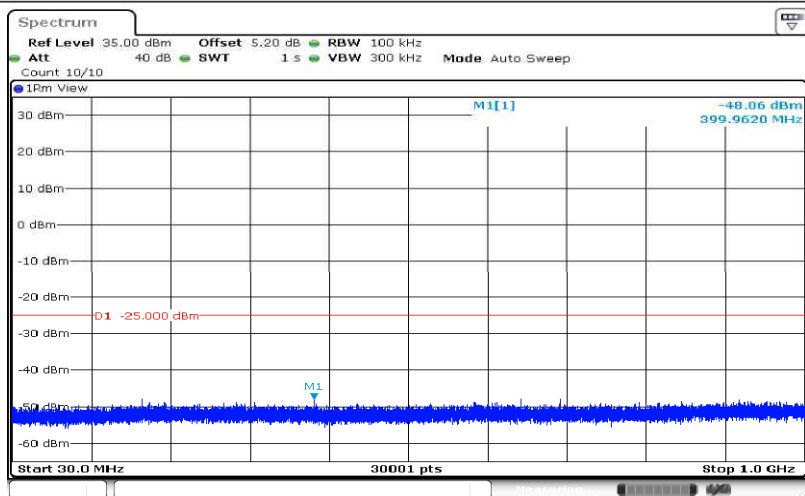
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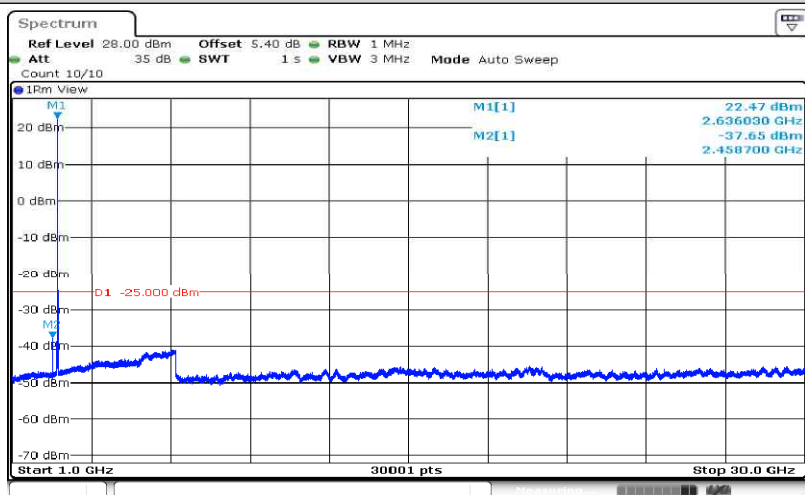


Band41-20MHz-16QAM-41140-1RB#0-Range1:30~1000MHz



Date: 3 JUN 2020 16:51:29

Band41-20MHz-16QAM-41140-1RB#0-Range2:1000~30000MHz



Date: 3 JUN 2020 16:51:45



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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
105.2758	-65.49	-25.00	40.49	Vertical
641.4216	-64.64	-25.00	39.64	Vertical
1716.9434	-44.35	-25.00	19.35	Vertical
7340.1447	-56.34	-25.00	31.34	Vertical
14469.3823	-48.34	-25.00	23.34	Vertical
17997.9999	-40.43	-25.00	15.43	Vertical
44.4052	-63.07	-25.00	38.07	Horizontal
228.9084	-68.73	-25.00	43.73	Horizontal
1804.5609	-43.39	-25.00	18.39	Horizontal
7454.1485	-56.58	-25.00	31.58	Horizontal
16389.4463	-43.84	-25.00	18.84	Horizontal
17987.9996	-45.58	-25.00	20.58	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
110.1260	-64.73	-25.00	39.73	Vertical
602.0861	-64.35	-25.00	39.35	Vertical
1726.5453	-44.05	-25.00	19.05	Vertical
7353.1451	-56.35	-25.00	31.35	Vertical
14701.3900	-48.21	-25.00	23.21	Vertical
17996.9999	-40.84	-25.00	15.84	Vertical
44.1142	-64.98	-25.00	39.98	Horizontal
249.9585	-69.26	-25.00	44.26	Horizontal
1799.3599	-43.42	-25.00	18.42	Horizontal
7438.1479	-56.80	-25.00	31.80	Horizontal
16385.9462	-44.05	-25.00	19.05	Horizontal
17991.9997	-44.88	-25.00	19.88	Horizontal



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7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
112.3571	-64.82	-25.00	39.82	Vertical
591.2701	-64.20	-25.00	39.20	Vertical
1716.9434	-44.20	-25.00	19.20	Vertical
7466.1489	-56.11	-25.00	31.11	Vertical
14496.3832	-47.95	-25.00	22.95	Vertical
17993.4998	-40.70	-25.00	15.70	Vertical
40.9615	-64.89	-25.00	39.89	Horizontal
230.0725	-68.90	-25.00	43.90	Horizontal
1789.3579	-43.43	-25.00	18.43	Horizontal
7482.1494	-56.97	-25.00	31.97	Horizontal
16384.4461	-44.21	-25.00	19.21	Horizontal
17994.9998	-45.16	-25.00	20.16	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.





8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth h	Modulation	Channel	RB Configur e	Voltage [Vdc]	Tempe rature (°C)	Deviation n (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band41	20MHz	QPSK	40140	100RB#0	VL	NT	-7.20	-0.002829	±2.5	PASS
Band41	20MHz	QPSK	40140	100RB#0	VN	NT	-11.90	-0.004676	±2.5	PASS
Band41	20MHz	QPSK	40140	100RB#0	VH	NT	-7.50	-0.002947	±2.5	PASS
Band41	20MHz	QPSK	40640	100RB#0	VL	NT	-3.40	-0.001310	±2.5	PASS
Band41	20MHz	QPSK	40640	100RB#0	VN	NT	-3.90	-0.001503	±2.5	PASS
Band41	20MHz	QPSK	40640	100RB#0	VH	NT	-3.80	-0.001464	±2.5	PASS
Band41	20MHz	QPSK	41140	100RB#0	VL	NT	1.70	0.000643	±2.5	PASS
Band41	20MHz	QPSK	41140	100RB#0	VN	NT	-5.70	-0.002155	±2.5	PASS
Band41	20MHz	QPSK	41140	100RB#0	VH	NT	-5.20	-0.001966	±2.5	PASS
Band41	20MHz	16QAM	40140	100RB#0	VL	NT	-5.60	-0.002200	±2.5	PASS
Band41	20MHz	16QAM	40140	100RB#0	VN	NT	-9.80	-0.003851	±2.5	PASS
Band41	20MHz	16QAM	40140	100RB#0	VH	NT	-6.60	-0.002593	±2.5	PASS
Band41	20MHz	16QAM	40640	100RB#0	VL	NT	1.30	0.000501	±2.5	PASS
Band41	20MHz	16QAM	40640	100RB#0	VN	NT	-2.40	-0.000925	±2.5	PASS
Band41	20MHz	16QAM	40640	100RB#0	VH	NT	-6.20	-0.002389	±2.5	PASS
Band41	20MHz	16QAM	41140	100RB#0	VL	NT	-6.30	-0.002382	±2.5	PASS
Band41	20MHz	16QAM	41140	100RB#0	VN	NT	-7.00	-0.002647	±2.5	PASS
Band41	20MHz	16QAM	41140	100RB#0	VH	NT	-0.50	-0.000189	±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
Band41	20MHz	QPSK	40140	100RB#0	NV	-30	-12.70	-0.004990	±2.5	PASS
Band41	20MHz	QPSK	40140	100RB#0	NV	-20	-10.80	-0.004244	±2.5	PASS
Band41	20MHz	QPSK	40140	100RB#0	NV	0	-6.10	-0.002397	±2.5	PASS
Band41	20MHz	QPSK	40140	100RB#0	NV	10	-13.70	-0.005383	±2.5	PASS
Band41	20MHz	QPSK	40140	100RB#0	NV	20	-5.20	-0.002043	±2.5	PASS
Band41	20MHz	QPSK	40140	100RB#0	NV	30	-7.10	-0.002790	±2.5	PASS
Band41	20MHz	QPSK	40140	100RB#0	NV	40	-8.50	-0.003340	±2.5	PASS
Band41	20MHz	QPSK	40140	100RB#0	NV	50	-5.80	-0.002279	±2.5	PASS
Band41	20MHz	QPSK	40640	100RB#0	NV	-30	-8.10	-0.003121	±2.5	PASS
Band41	20MHz	QPSK	40640	100RB#0	NV	-20	0.80	0.000308	±2.5	PASS
Band41	20MHz	QPSK	40640	100RB#0	NV	0	-7.20	-0.002775	±2.5	PASS
Band41	20MHz	QPSK	40640	100RB#0	NV	10	-4.70	-0.001811	±2.5	PASS
Band41	20MHz	QPSK	40640	100RB#0	NV	20	-8.30	-0.003198	±2.5	PASS
Band41	20MHz	QPSK	40640	100RB#0	NV	30	-1.90	-0.000732	±2.5	PASS
Band41	20MHz	QPSK	40640	100RB#0	NV	40	-4.70	-0.001811	±2.5	PASS
Band41	20MHz	QPSK	40640	100RB#0	NV	50	-6.00	-0.002312	±2.5	PASS
Band41	20MHz	QPSK	41140	100RB#0	NV	-30	-2.70	-0.001021	±2.5	PASS
Band41	20MHz	QPSK	41140	100RB#0	NV	-20	-0.80	-0.000302	±2.5	PASS
Band41	20MHz	QPSK	41140	100RB#0	NV	0	-7.20	-0.002722	±2.5	PASS
Band41	20MHz	QPSK	41140	100RB#0	NV	10	-3.70	-0.001399	±2.5	PASS
Band41	20MHz	QPSK	41140	100RB#0	NV	20	-8.20	-0.003100	±2.5	PASS
Band41	20MHz	QPSK	41140	100RB#0	NV	30	-4.50	-0.001701	±2.5	PASS
Band41	20MHz	QPSK	41140	100RB#0	NV	40	-4.40	-0.001664	±2.5	PASS
Band41	20MHz	QPSK	41140	100RB#0	NV	50	1.00	0.000378	±2.5	PASS
Band41	20MHz	64QAM	41140	100RB#0	NV	50	71.50	0.027032	±2.5	PASS
Band41	20MHz	16QAM	40140	100RB#0	NV	-30	-10.70	-0.004204	±2.5	PASS
Band41	20MHz	16QAM	40140	100RB#0	NV	-20	-12.90	-0.005069	±2.5	PASS
Band41	20MHz	16QAM	40140	100RB#0	NV	0	-5.10	-0.002004	±2.5	PASS
Band41	20MHz	16QAM	40140	100RB#0	NV	10	-12.20	-0.004794	±2.5	PASS
Band41	20MHz	16QAM	40140	100RB#0	NV	20	-8.10	-0.003183	±2.5	PASS
Band41	20MHz	16QAM	40140	100RB#0	NV	30	-7.10	-0.002790	±2.5	PASS
Band41	20MHz	16QAM	40140	100RB#0	NV	40	-2.60	-0.001022	±2.5	PASS
Band41	20MHz	16QAM	40140	100RB#0	NV	50	-6.20	-0.002436	±2.5	PASS
Band41	20MHz	16QAM	40640	100RB#0	NV	-30	-9.40	-0.003622	±2.5	PASS
Band41	20MHz	16QAM	40640	100RB#0	NV	-20	-5.10	-0.001965	±2.5	PASS
Band41	20MHz	16QAM	40640	100RB#0	NV	0	-6.30	-0.002428	±2.5	PASS
Band41	20MHz	16QAM	40640	100RB#0	NV	10	-7.70	-0.002967	±2.5	PASS
Band41	20MHz	16QAM	40640	100RB#0	NV	20	2.90	0.001118	±2.5	PASS
Band41	20MHz	16QAM	40640	100RB#0	NV	30	1.80	0.000694	±2.5	PASS
Band41	20MHz	16QAM	40640	100RB#0	NV	40	-2.20	-0.000848	±2.5	PASS
Band41	20MHz	16QAM	40640	100RB#0	NV	50	0.40	0.000154	±2.5	PASS
Band41	20MHz	16QAM	41140	100RB#0	NV	-30	0.10	0.000038	±2.5	PASS
Band41	20MHz	16QAM	41140	100RB#0	NV	-20	1.40	0.000529	±2.5	PASS



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Band41	20MHz	16QAM	41140	100RB#0	NV	0	-0.30	-0.000113	±2.5	PASS
Band41	20MHz	16QAM	41140	100RB#0	NV	10	-11.20	-0.004234	±2.5	PASS
Band41	20MHz	16QAM	41140	100RB#0	NV	20	-4.60	-0.001739	±2.5	PASS
Band41	20MHz	16QAM	41140	100RB#0	NV	30	-6.60	-0.002495	±2.5	PASS
Band41	20MHz	16QAM	41140	100RB#0	NV	40	-2.70	-0.001021	±2.5	PASS
Band41	20MHz	16QAM	41140	100RB#0	NV	50	-4.90	-0.001853	±2.5	PASS

