Appendix B

E-UTRA Band 7

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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit	Verdict
Band7	5MHz	QPSK	20775	1RB#0	22.77	23.47	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#12	22.86	23.56	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#24	22.53	23.23	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#0	21.59	22.29	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#6	21.64	22.34	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#13	21.58	22.28	33.00	PASS
Band7	5MHz	QPSK	20775	25RB#0	21.59	22.29	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#0	22.74	23.44	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#24	22.47	23.17	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#12	22.4	23.1	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#0	21.48	22.18	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#6	21.59	22.29	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#13	21.46	22.16	33.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	21.95	22.65	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#24	22.85	23.55	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#0	22.5	23.2	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#12	22.44	23.14	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#0	21.53	22.23	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#6	21.6	22.3	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#13	21.5	22.2	33.00	PASS
Band7	5MHz	QPSK	21425	25RB#0	21.47	22.17	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#0	21.28	21.98	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#12	21.7	22.4	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#24	21.83	22.53	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#6	20.58	21.28	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#0	20.68	21.38	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#13	20.52	21.22	33.00	PASS

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Band7	5MHz	16QAM	20775	25RB#0	20.63	21.33	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#0	21.41	22.11	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#12	21.68	22.38	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#24	21.5	22.2	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#13	20.52	21.22	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#0	20.49	21.19	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#6	20.5	21.2	33.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	20.54	21.24	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#12	21.61	22.31	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#0	21.65	22.35	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#24	21.27	21.97	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#0	20.56	21.26	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#6	20.65	21.35	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#13	20.48	21.18	33.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	20.5	21.2	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#24	22.84	23.54	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#49	22.63	23.33	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#0	22.44	23.14	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#0	21.55	22.25	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#12	21.62	22.32	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#25	21.56	22.26	33.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	21.6	22.3	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#0	22.47	23.17	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#49	22.48	23.18	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#24	22.39	23.09	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#25	21.58	22.28	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#0	21.5	22.2	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#12	21.95	22.65	33.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	21.5	22.2	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#24	22.72	23.42	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#0	22.72	23.42	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#49	22.4	23.1	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#0	21.59	22.29	33.00	PASS

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Band7	10MHz	QPSK	21400	25RB#25	21.58	22.28	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#12	21.67	22.37	33.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	21.53	22.23	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#49	21.84	22.54	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#0	21.66	22.36	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#24	21.89	22.59	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#25	20.58	21.28	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#12	20.65	21.35	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#0	20.55	21.25	33.00	PASS
Band7	10MHz	16QAM	20800	50RB#0	20.58	21.28	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#49	21.59	22.29	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#0	21.6	22.3	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#24	21.95	22.65	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#25	20.45	21.15	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#0	20.51	21.21	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#12	20.54	21.24	33.00	PASS
Band7	10MHz	16QAM	21100	50RB#0	20.52	21.22	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#24	21.6	22.3	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#0	22.06	22.76	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#49	21.6	22.3	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#0	20.62	21.32	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#12	20.45	21.15	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#25	20.55	21.25	33.00	PASS
Band7	10MHz	16QAM	21400	50RB#0	20.53	21.23	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#0	22.94	23.64	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#38	22.89	23.59	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#74	22.46	23.16	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#0	22.14	22.84	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#18	21.59	22.29	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#39	21.61	22.31	33.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	21.54	22.24	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#0	22.35	23.05	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#74	22.47	23.17	33.00	PASS

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Band7	15MHz	QPSK	21100	1RB#38	22.39	23.09	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#0	21.57	22.27	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#18	21.60	22.3	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#39	21.56	22.26	33.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	21.61	22.31	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#74	22.31	23.01	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	22.65	23.35	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#38	22.43	23.13	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#0	21.61	22.31	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#18	21.59	22.29	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#39	21.65	22.35	33.00	PASS
Band7	15MHz	QPSK	21375	75RB#0	21.56	22.26	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#0	21.39	22.09	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#38	21.92	22.62	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#74	21.62	22.32	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#18	20.57	21.27	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#0	20.52	21.22	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#39	20.62	21.32	33.00	PASS
Band7	15MHz	16QAM	20825	75RB#0	20.50	21.2	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#0	21.47	22.17	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#38	22.06	22.76	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#74	21.84	22.54	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#39	20.53	21.23	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#0	20.58	21.28	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#18	20.53	21.23	33.00	PASS
Band7	15MHz	16QAM	21100	75RB#0	20.53	21.23	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#38	21.87	22.57	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#0	21.76	22.46	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#74	21.51	22.21	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#0	20.52	21.22	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#18	20.53	21.23	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#39	20.65	21.35	33.00	PASS
Band7	15MHz	16QAM	21375	75RB#0	20.64	21.34	33.00	PASS

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Band7	20MHz	QPSK	20850	1RB#99	22.71	23.41	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#49	22.72	23.42	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#0	22.16	22.86	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#0	21.58	22.28	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#25	21.71	22.41	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#50	21.6	22.3	33.00	PASS
Band7	20MHz	QPSK	20850	100RB#0	21.49	22.19	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#0	22.18	22.88	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#99	22.46	23.16	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#49	22.27	22.97	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#50	21.56	22.26	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#0	21.5	22.2	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#25	21.52	22.22	33.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	21.5	22.2	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#49	22.25	22.95	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#0	22.64	23.34	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#99	22.35	23.05	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#0	21.57	22.27	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#50	21.66	22.36	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#25	21.7	22.4	33.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	21.58	22.28	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#99	21.71	22.41	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#0	22.14	22.84	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#49	21.71	22.41	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#50	20.48	21.18	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#25	20.68	21.38	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#0	20.57	21.27	33.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	20.56	21.26	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#99	21.66	22.36	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#0	21.62	22.32	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#49	21.75	22.45	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#50	20.45	21.15	33.00	FAIL
Band7	20MHz	16QAM	21100	50RB#0	20.6	21.3	33.00	PASS

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Band7	20MHz	16QAM	21100	50RB#25	20.54	21.24	33.00	PASS
Band7	20MHz	16QAM	21100	100RB#0	20.55	21.25	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#49	21.3	22	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#0	21.67	22.37	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#99	21.24	21.94	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#0	20.61	21.31	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#25	20.69	21.39	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#50	20.72	21.42	33.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	20.53	21.23	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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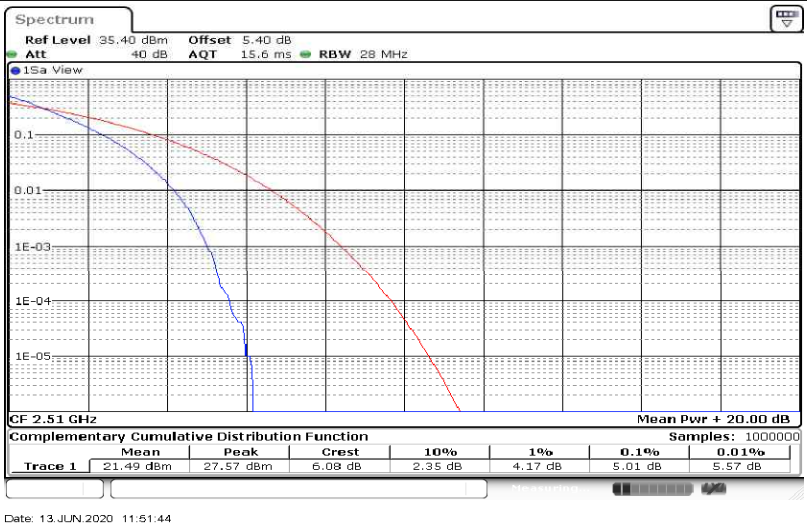
2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	5.01	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.19	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.13	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.91	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.00	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	5.94	13	PASS

2.2. Test Plots

Band7-20MHz-QPSK-20850-100RB#0



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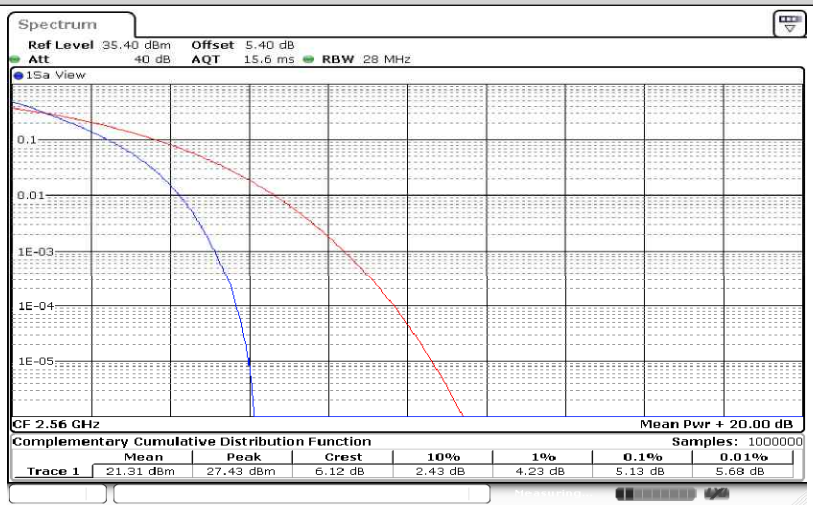
Band7-20MHz-QPSK-21100-100RB#0

Date: 13.JUN.2020 11:52:06

Band7-20MHz-QPSK-21350-100RB#0



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Band7-20MHz-16QAM-20850-100RB#0

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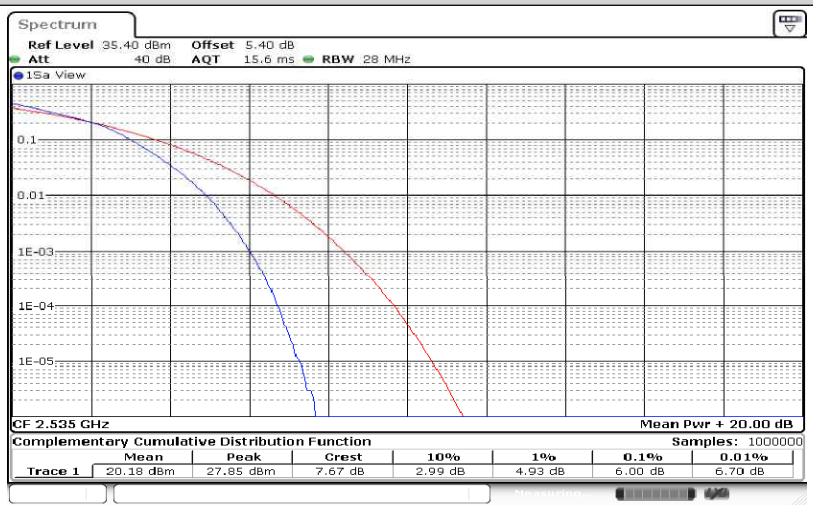
Band7-20MHz-16QAM-21100-100RB#0



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Band7-20MHz-16QAM-21350-100RB#0

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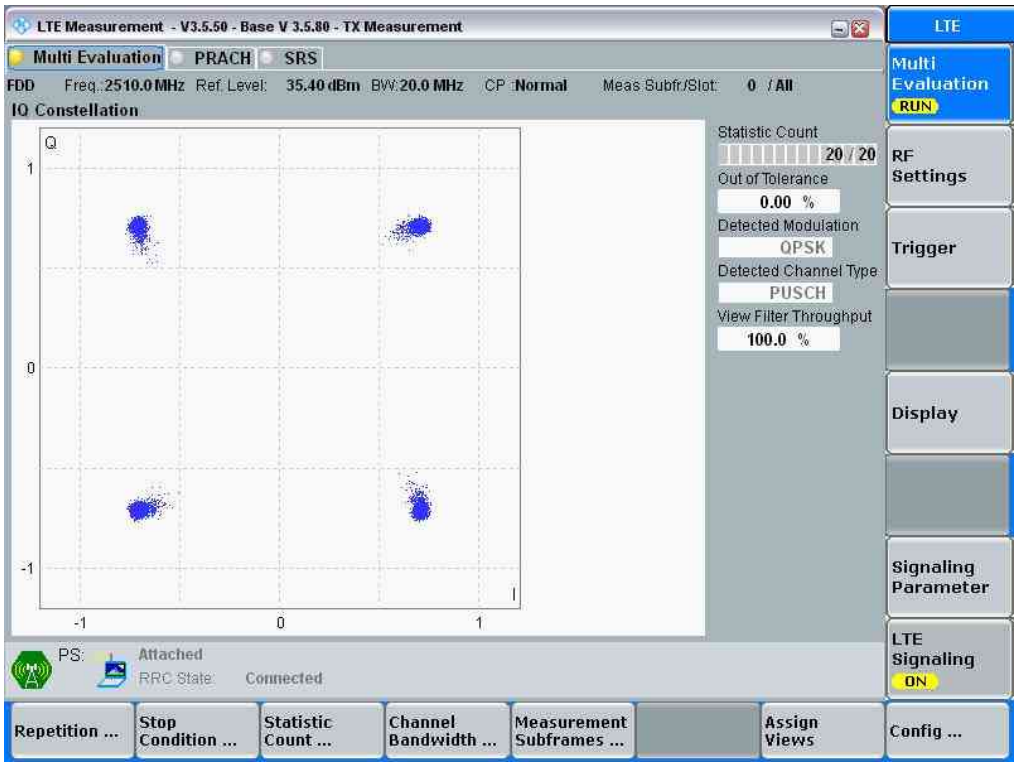
3. Modulation Characteristics

3.1. Test Band = LTE Band 7

3.1.1.Test Mode = LTE /TM1 20MHz

3.1.1.1. Test Channel = MCH



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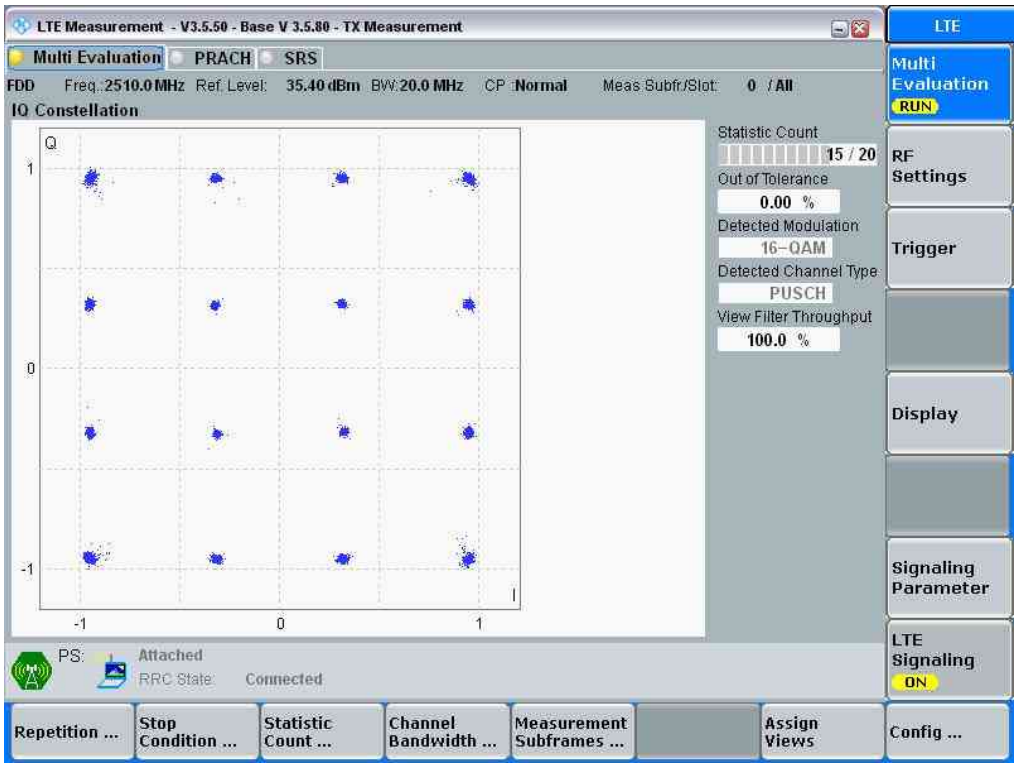
3.1.2.Test Mode = LTE /TM2 20MHz

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
Band7	5MHz	QPSK	20775	25RB#0	4.466	4.830	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.476	4.770	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.476	4.770	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.486	4.790	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.486	4.750	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.486	4.860	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.931	9.620	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.931	9.600	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.931	9.620	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.951	9.420	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.951	9.420	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.951	9.440	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.606	14.640	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.606	14.610	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.606	14.640	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.457	14.700	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.457	14.640	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.457	14.670	PASS
Band7	20MHz	QPSK	20850	100RB#0	18.062	19.000	PASS
Band7	20MHz	QPSK	21100	100RB#0	18.062	19.160	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.862	19.280	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.902	19.120	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.902	19.320	PASS
Band7	20MHz	16QAM	21350	100RB#0	18.062	19.040	PASS

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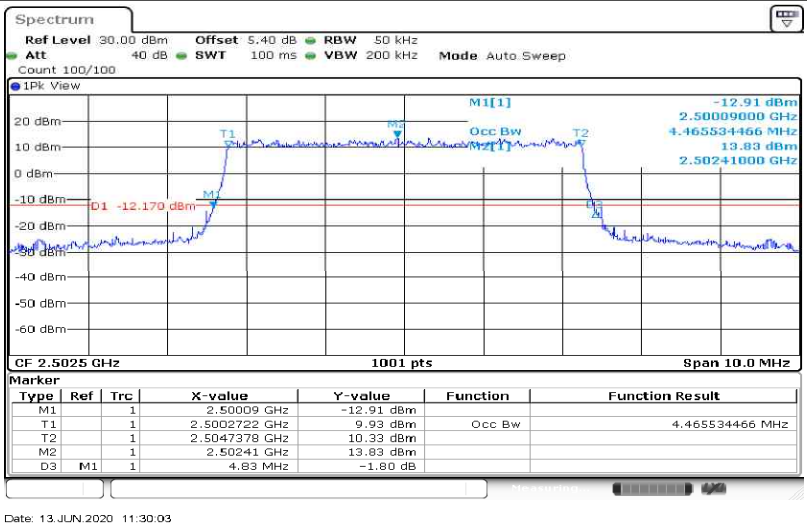
4.2. Test Plots

Band7-5MHz-QPSK-20775-25RB#0-4.466



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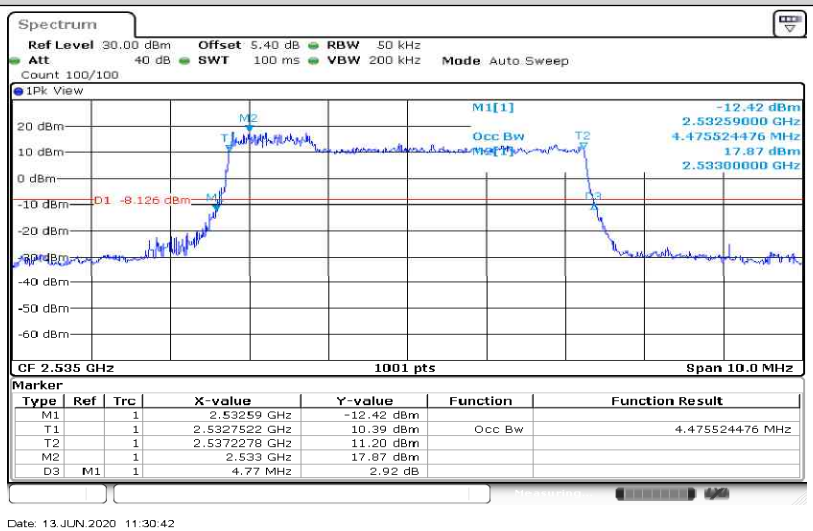
Band7-5MHz-QPSK-21100-25RB#0-4.476



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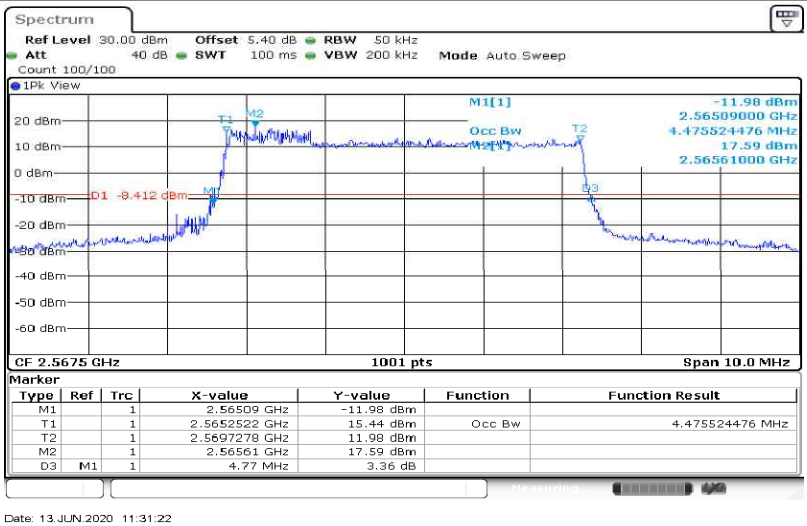
Band7-5MHz-QPSK-21425-25RB#0-4.476

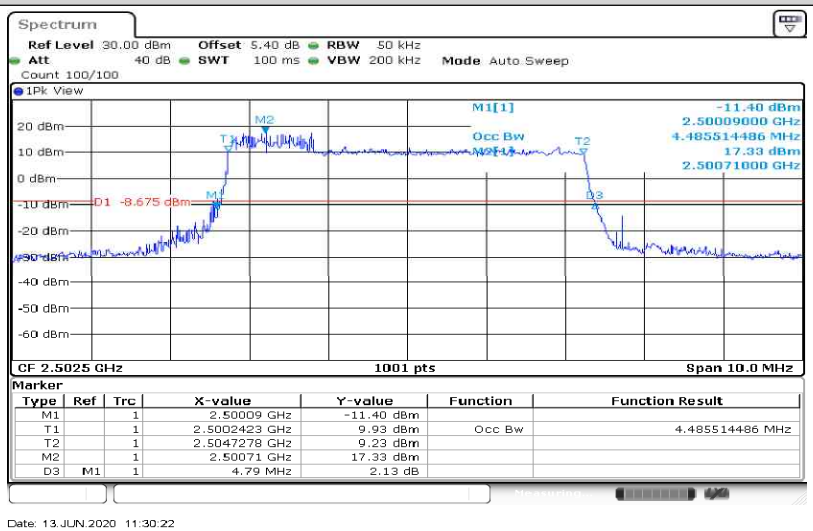


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.56509 GHz	-11.98 dBm		
T1		1	2.5652522 GHz	15.44 dBm	Occ Bw	4.475524476 MHz
T2		1	2.5697278 GHz	11.98 dBm		
M2		1	2.56561 GHz	17.59 dBm		
D3	M1	1	4.77 MHz	3.36 dB		

Date: 13.JUN.2020 11:31:22

Band7-5MHz-16QAM-20775-25RB#0-4.486



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.50009 GHz	-11.40 dBm		
T1		1	2.5002423 GHz	9.93 dBm	Occ Bw	4.485514486 MHz
T2		1	2.5047278 GHz	9.23 dBm		
M2		1	2.50071 GHz	17.33 dBm		
D3	M1	1	4.79 MHz	2.13 dB		

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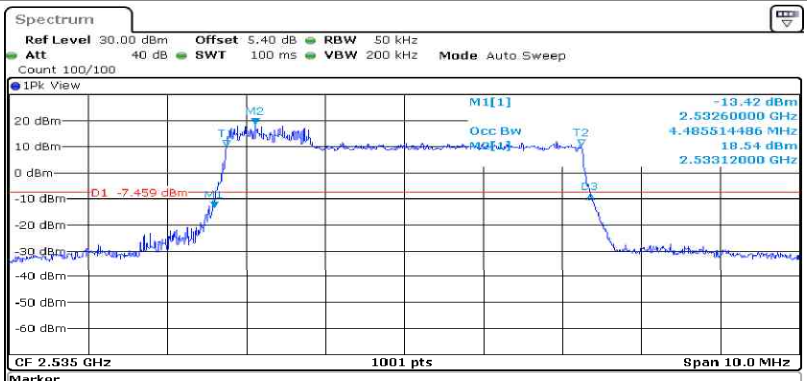
Band7-5MHz-16QAM-21100-25RB#0-4.486

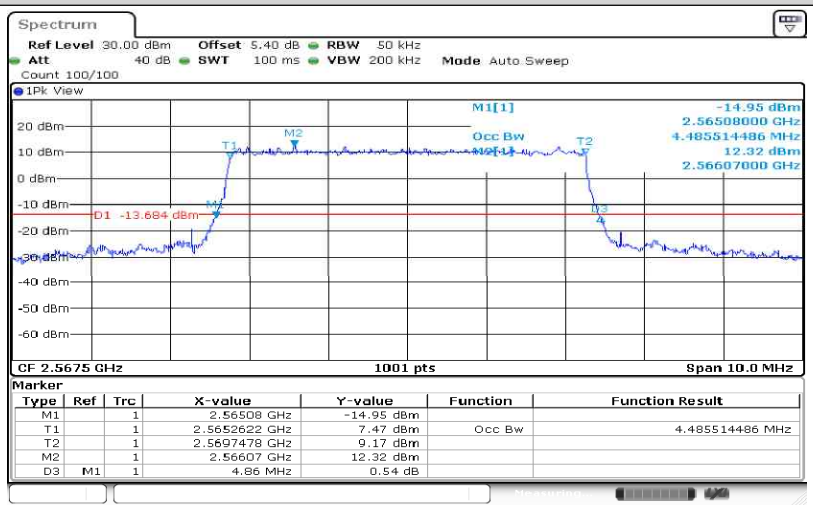


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.5326 GHz	-13.42 dBm		
T1		1	2.5327522 GHz	10.14 dBm	Occ Bw	4.485514486 MHz
T2		1	2.5372378 GHz	10.25 dBm		
M2		1	2.53312 GHz	18.54 dBm		
D3	M1	1	4.75 MHz	5.54 dB		

Date: 13.JUN.2020 11:31:02

Band7-5MHz-16QAM-21425-25RB#0-4.486



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.56508 GHz	-14.95 dBm		
T1		1	2.5652622 GHz	7.47 dBm	Occ Bw	4.485514486 MHz
T2		1	2.5697478 GHz	9.17 dBm		
M2		1	2.56607 GHz	12.32 dBm		
D3	M1	1	4.86 MHz	0.54 dB		

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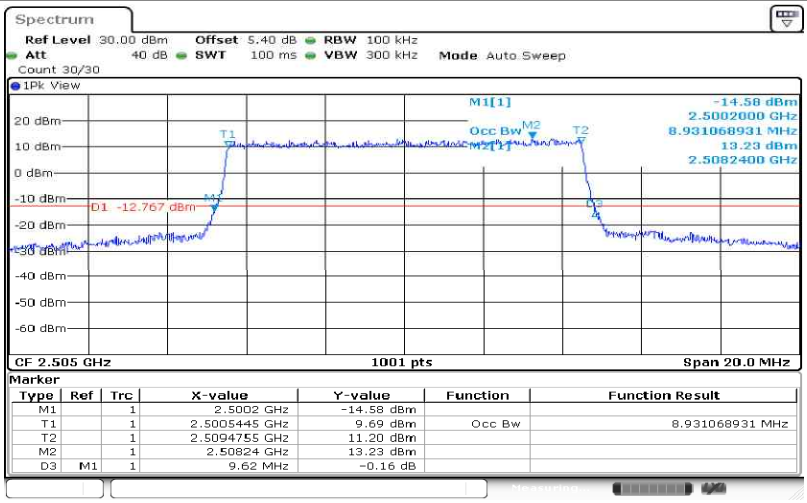
Band7-10MHz-QPSK-20800-50RB#0-8.931



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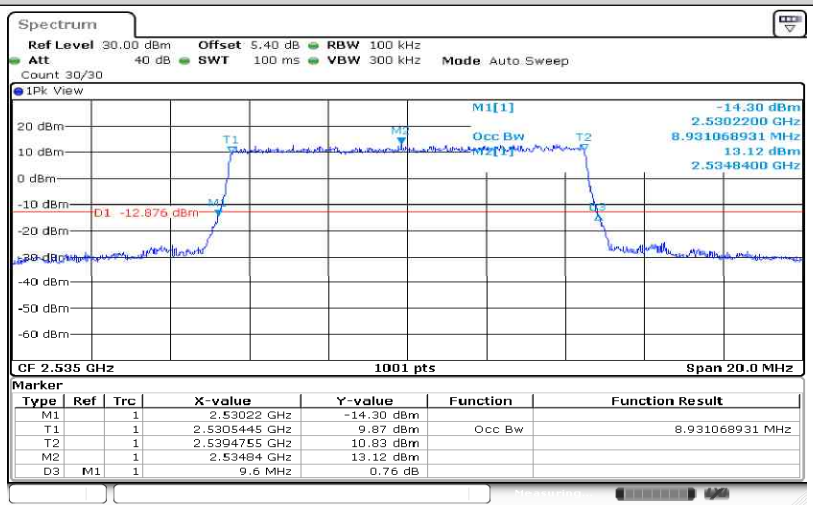
Band7-10MHz-QPSK-21100-50RB#0-8.931



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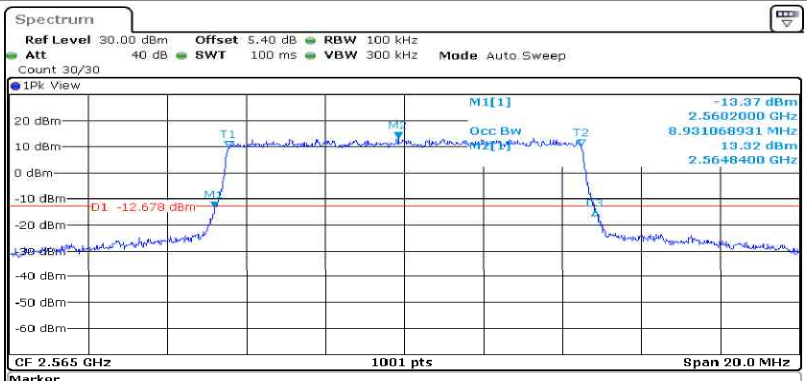
Band7-10MHz-QPSK-21400-50RB#0-8.931

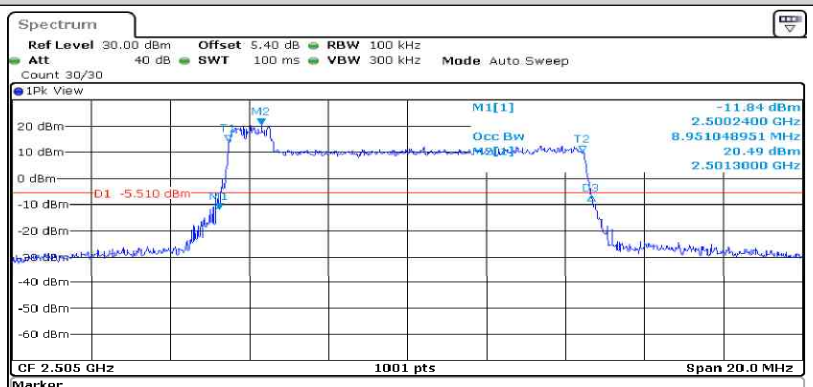


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.5602 GHz	-13.37 dBm		
T1		1	2.5605445 GHz	9.77 dBm	Occ Bw	8.931068931 MHz
T2		1	2.5694755 GHz	10.33 dBm		
M2		1	2.56484 GHz	13.32 dBm		
D3	M1	1	9.62 MHz	-1.03 dB		

Date: 13.JUN.2020 11:32:50

Band7-10MHz-16QAM-20800-50RB#0-8.951



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.50024 GHz	-11.84 dBm		
T1		1	2.5004845 GHz	14.23 dBm	Occ Bw	8.951048951 MHz
T2		1	2.5094356 GHz	10.12 dBm		
M2		1	2.5013 GHz	20.49 dBm		
D3	M1	1	9.42 MHz	5.50 dB		

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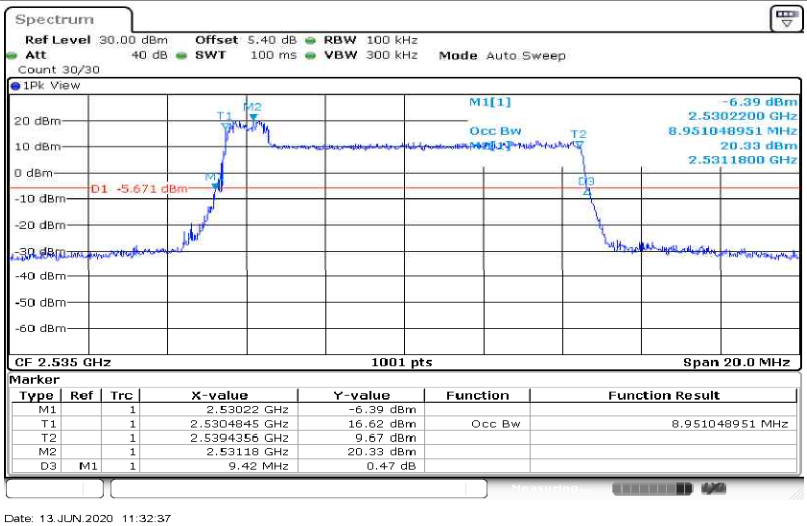
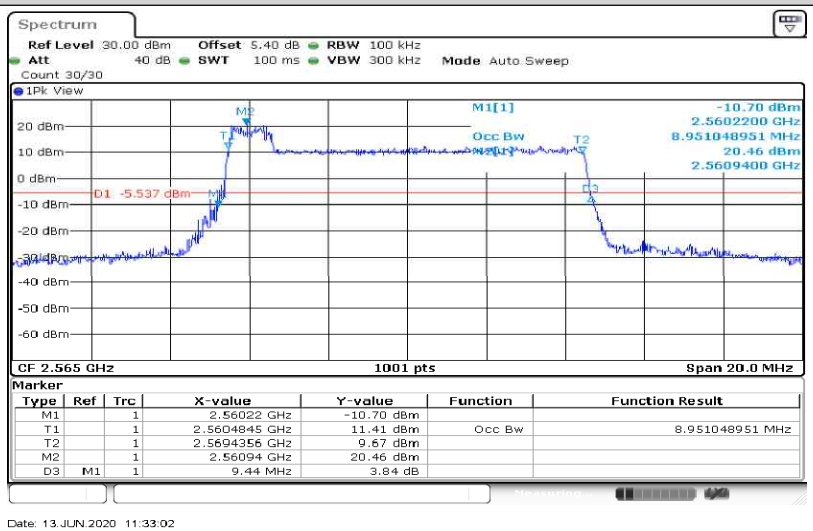


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.53022 GHz	-6.39 dBm		
T1		1	2.5304845 GHz	16.62 dBm	Occ Bw	8.951048951 MHz
T2		1	2.5394356 GHz	9.67 dBm		
M2		1	2.53118 GHz	20.33 dBm		
D3	M1	1	9.42 MHz	0.47 dB		

Date: 13.JUN.2020 11:32:37

Band7-10MHz-16QAM-21400-50RB#0-8.951



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.56022 GHz	-10.70 dBm		
T1		1	2.5604845 GHz	11.41 dBm	Occ Bw	8.951048951 MHz
T2		1	2.5694356 GHz	9.67 dBm		
M2		1	2.56094 GHz	20.46 dBm		
D3	M1	1	9.44 MHz	3.84 dB		

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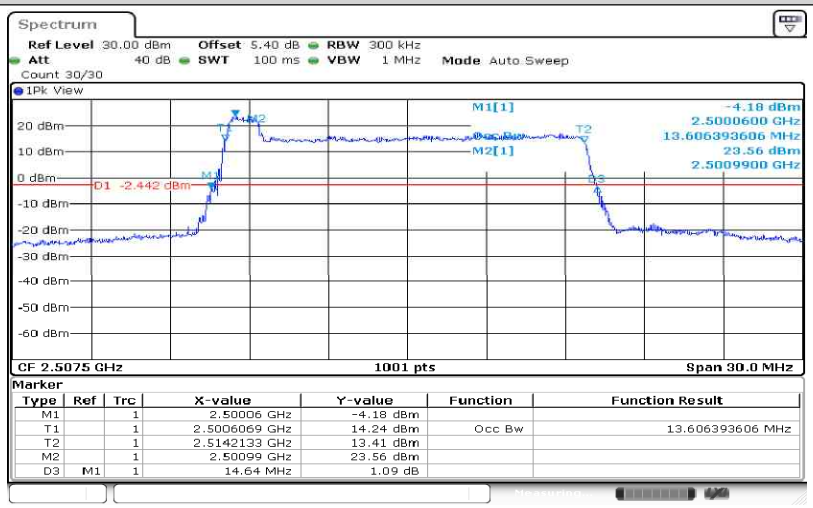
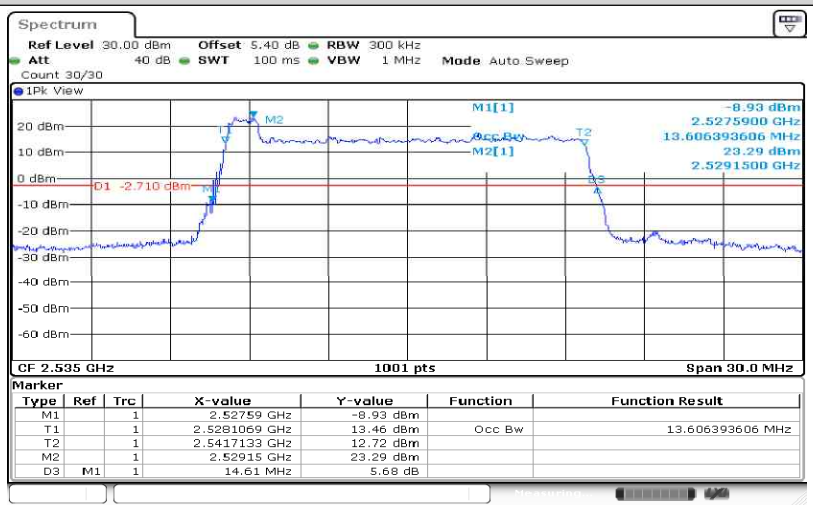
Band7-15MHz-QPSK-20825-75RB#0-13.606



Band7-15MHz-QPSK-21100-75RB#0-13.606



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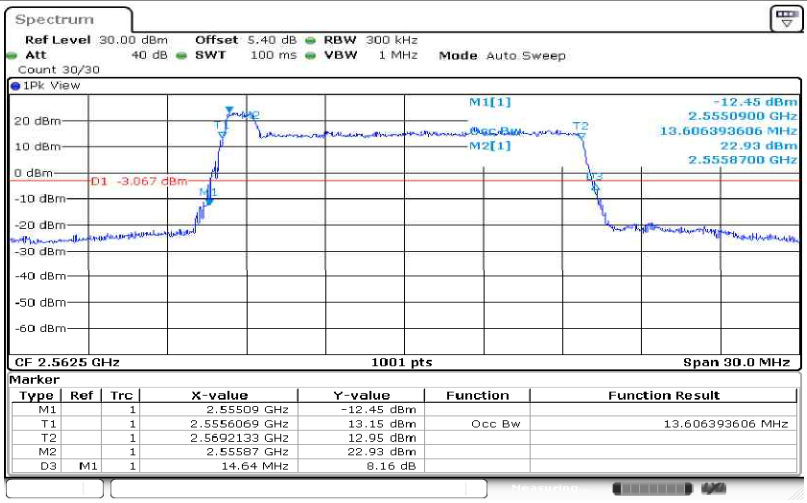
Band7-15MHz-QPSK-21375-75RB#0-13.606

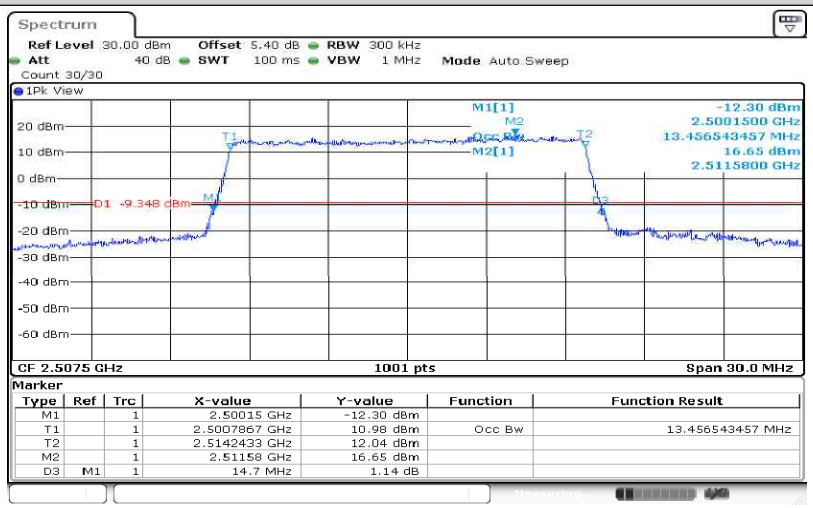


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.55509 GHz	-12.45 dBm		
T1		1	2.5556069 GHz	13.15 dBm	Occ Bw	13.606393606 MHz
T2		1	2.5692133 GHz	12.95 dBm		
M2		1	2.55587 GHz	22.93 dBm		
D3	M1	1	14.64 MHz	8.16 dB		

Date: 13.JUN.2020 11:34:10

Band7-15MHz-16QAM-20825-75RB#0-13.457



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.50015 GHz	-12.30 dBm		
T1		1	2.5007867 GHz	10.98 dBm	Occ Bw	13.456543457 MHz
T2		1	2.5142433 GHz	12.04 dBm		
M2		1	2.51158 GHz	16.65 dBm		
D3	M1	1	14.7 MHz	1.14 dB		

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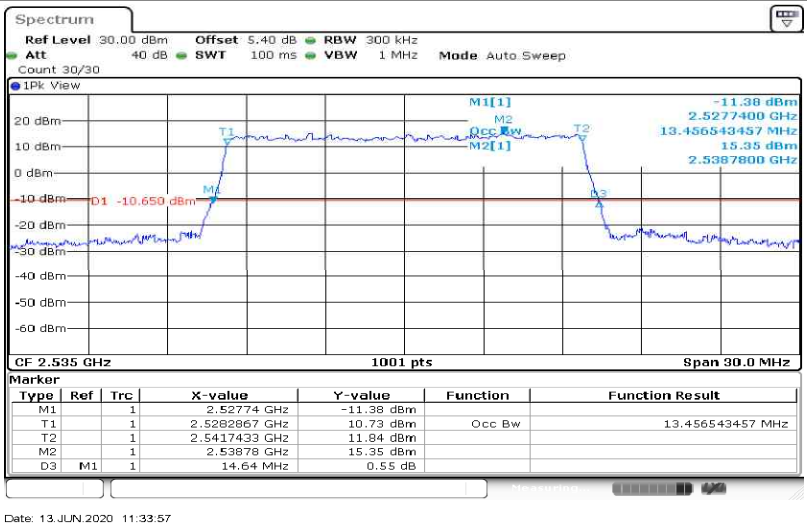
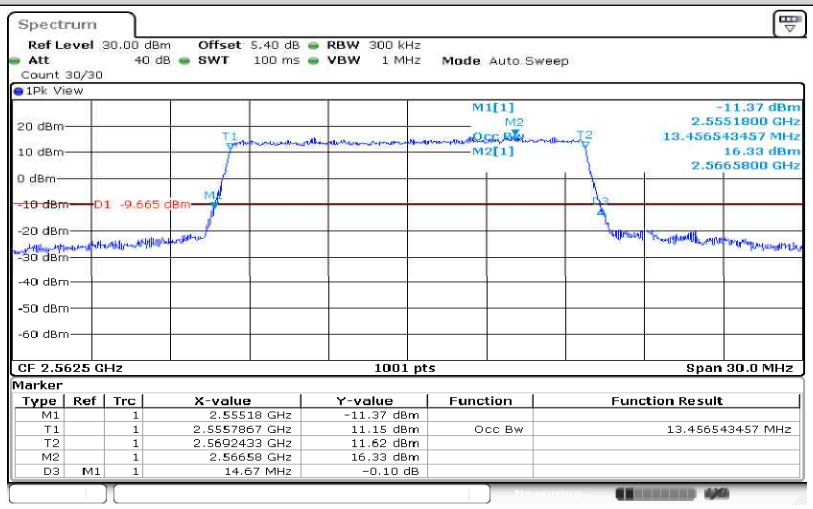


Date: 13.JUN.2020 11:33:57

Band7-15MHz-16QAM-21375-75RB#0-13.457



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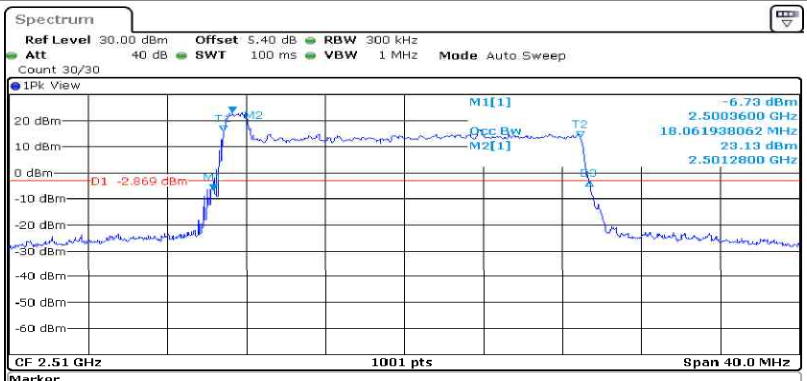
Band7-20MHz-QPSK-20850-100RB#0-18.062

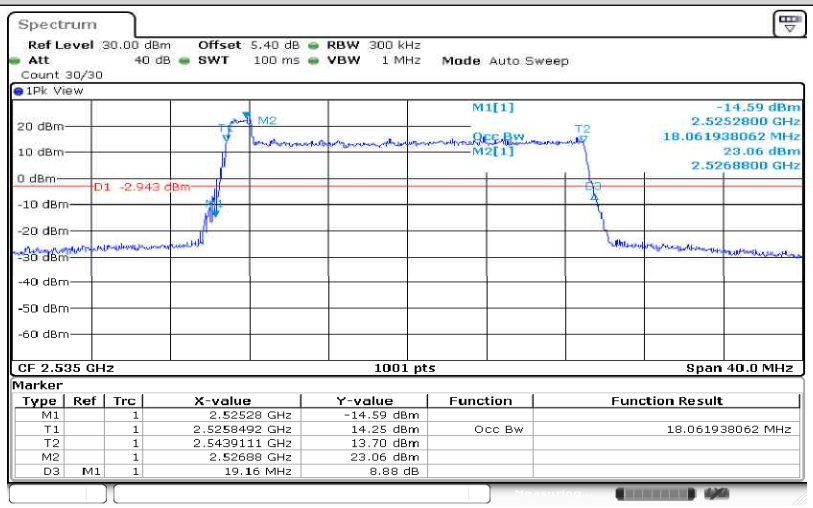


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.50036 GHz	-6.73 dBm		
T1		1	2.5008492 GHz	15.90 dBm	Occ Bw	18.061938062 MHz
T2		1	2.5189111 GHz	13.52 dBm		
M2		1	2.50128 GHz	23.13 dBm		
D3	M1	1	19.0 MHz	3.81 dB		

Date: 13.JUN.2020 11:34:40

Band7-20MHz-QPSK-21100-100RB#0-18.062



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.52528 GHz	-14.59 dBm		
T1		1	2.5258492 GHz	14.25 dBm	Occ Bw	18.061938062 MHz
T2		1	2.5439111 GHz	13.70 dBm		
M2		1	2.52688 GHz	23.06 dBm		
D3	M1	1	19.16 MHz	8.88 dB		

Date: 13.JUN.2020 11:35:06

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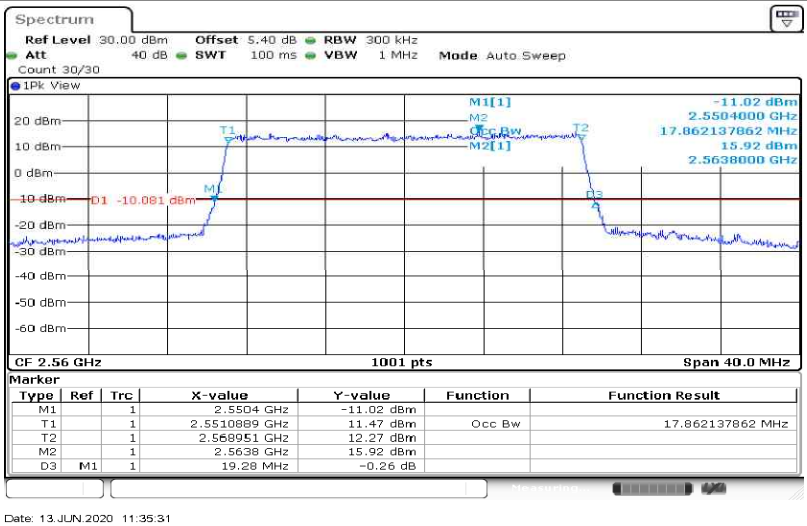
Band7-20MHz-QPSK-21350-100RB#0-17.862



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.5504 GHz	-11.02 dBm		
T1		1	2.5510889 GHz	11.47 dBm	Occ Bw	17.862137862 MHz
T2		1	2.568951 GHz	12.27 dBm		
M2		1	2.5638 GHz	15.92 dBm		
D3	M1	1	19.28 MHz	-0.26 dB		

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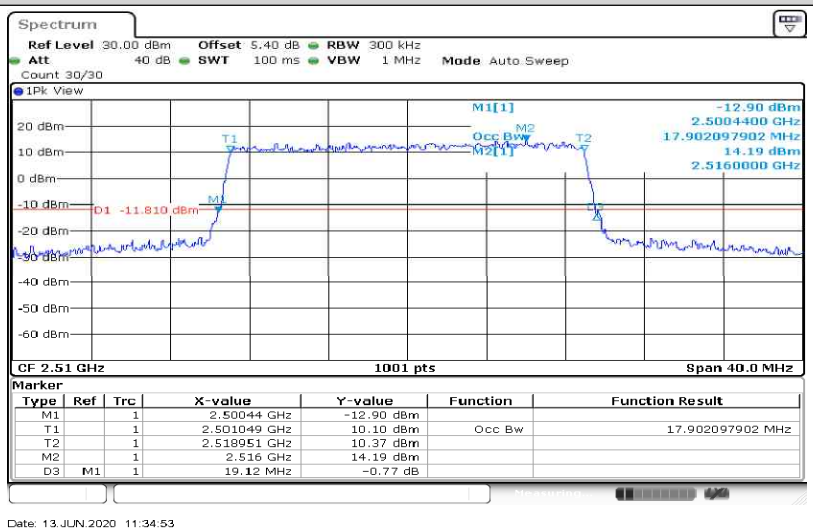
Band7-20MHz-16QAM-20850-100RB#0-17.902



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.50044 GHz	-12.90 dBm		
T1		1	2.501049 GHz	10.10 dBm	Occ Bw	17.902097902 MHz
T2		1	2.518951 GHz	10.37 dBm		
M2		1	2.516 GHz	14.19 dBm		
D3	M1	1	19.12 MHz	-0.77 dB		

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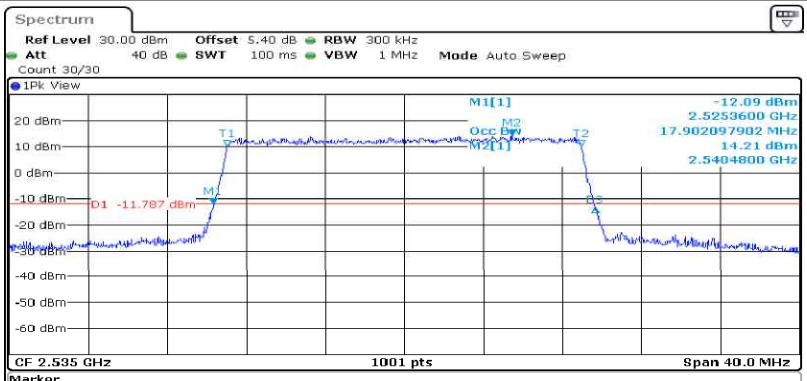
Band7-20MHz-16QAM-21100-100RB#0-17.902



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.52536 GHz	-12.09 dBm		
T1		1	2.526049 GHz	10.15 dBm	Occ Bw	17.902097902 MHz
T2		1	2.543951 GHz	10.06 dBm		
M2		1	2.54048 GHz	14.21 dBm		
D3	M1	1	19.32 MHz	-0.80 dB		

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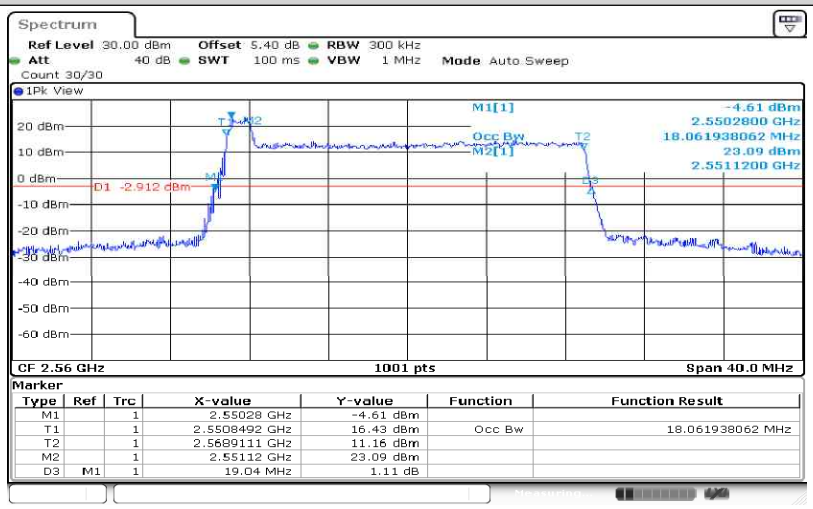
Band7-20MHz-16QAM-21350-100RB#0-18.062



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.55028 GHz	-4.61 dBm		
T1		1	2.5508492 GHz	16.43 dBm	Occ Bw	18.061938062 MHz
T2		1	2.5689111 GHz	11.16 dBm		
M2		1	2.55112 GHz	23.09 dBm		
D3	M1	1	19.04 MHz	1.11 dB		

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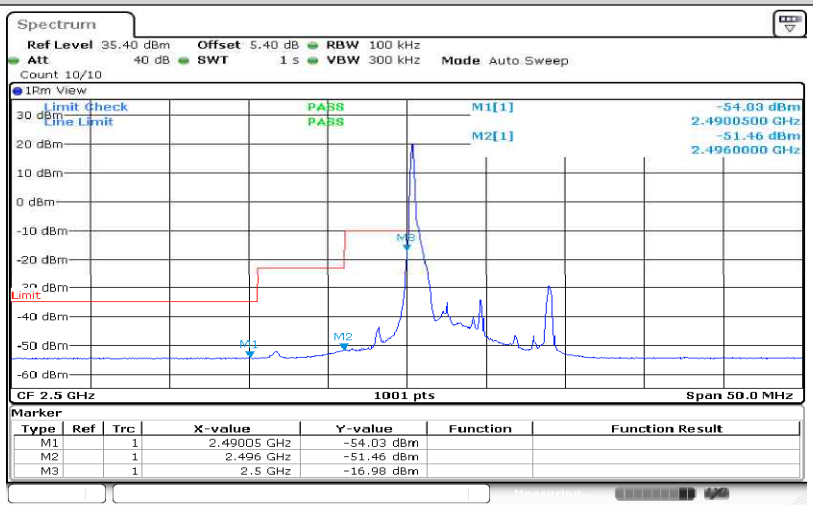
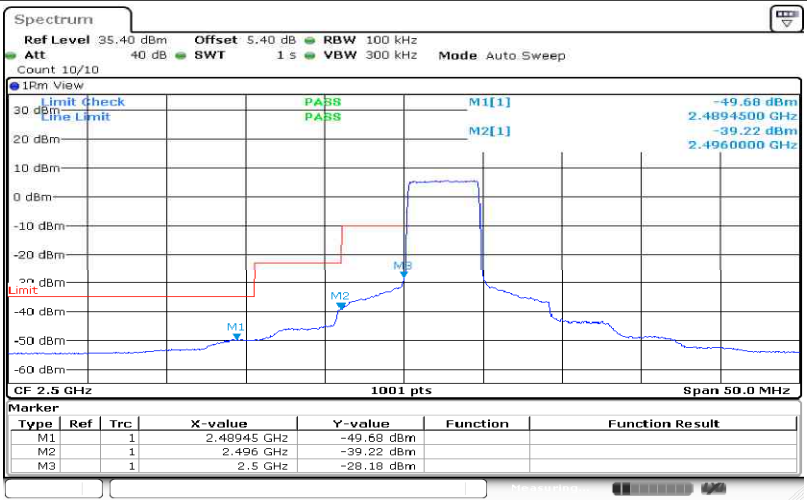
5. Band Edge Compliance

5.1. Test Plots

Band7-5MHz-QPSK-20775-1RB#0



Band7-5MHz-QPSK-20775-25RB#0



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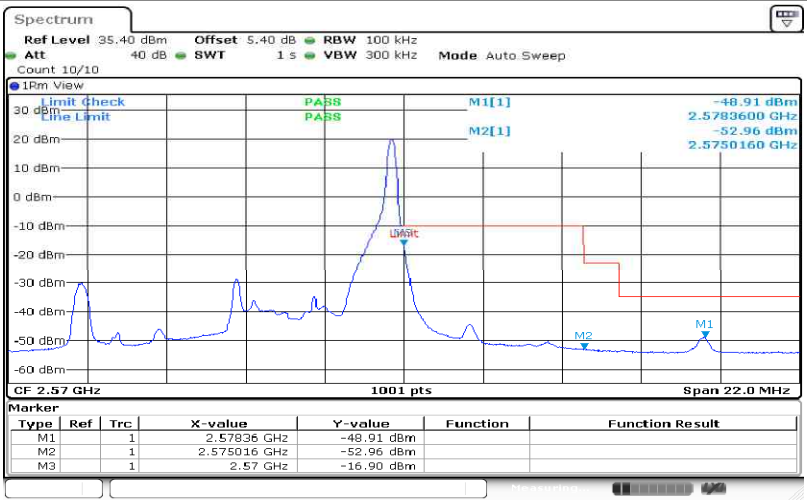
Band7-5MHz-QPSK-21425-1RB#24



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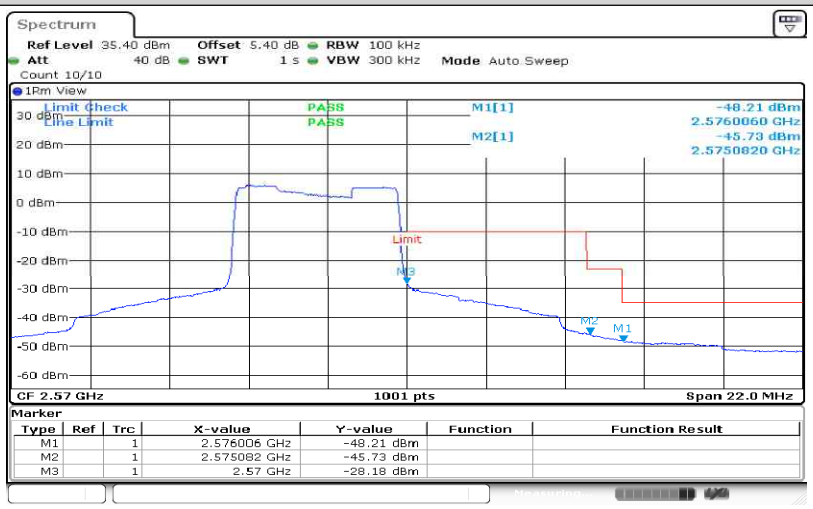
Band7-5MHz-QPSK-21425-25RB#0



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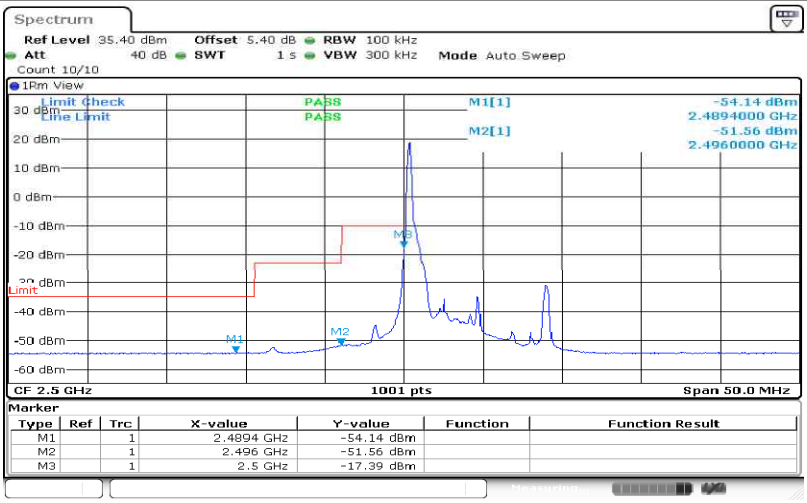
Band7-5MHz-16QAM-20775-1RB#0



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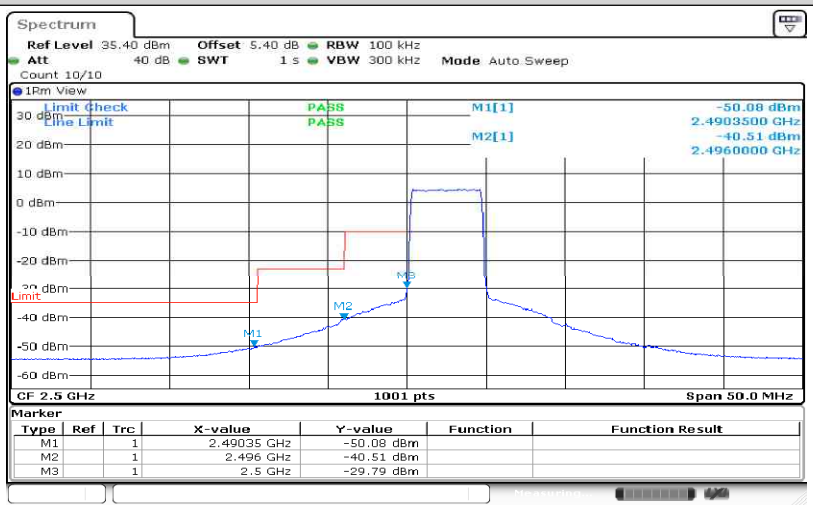
Band7-5MHz-16QAM-20775-25RB#0



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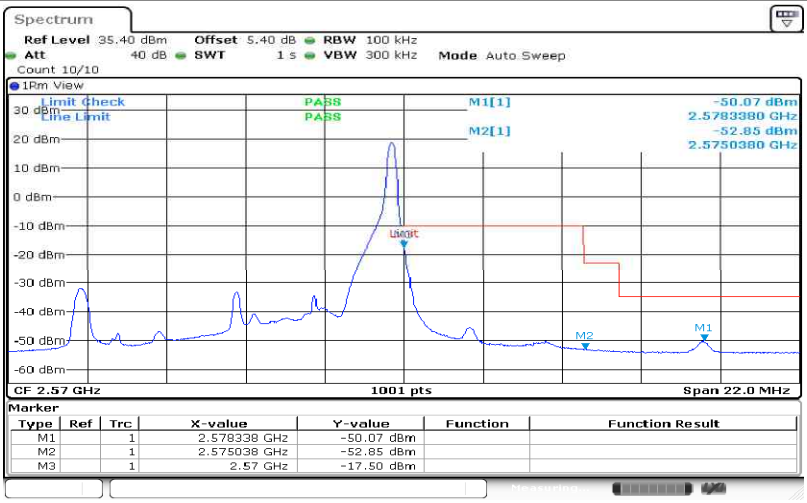

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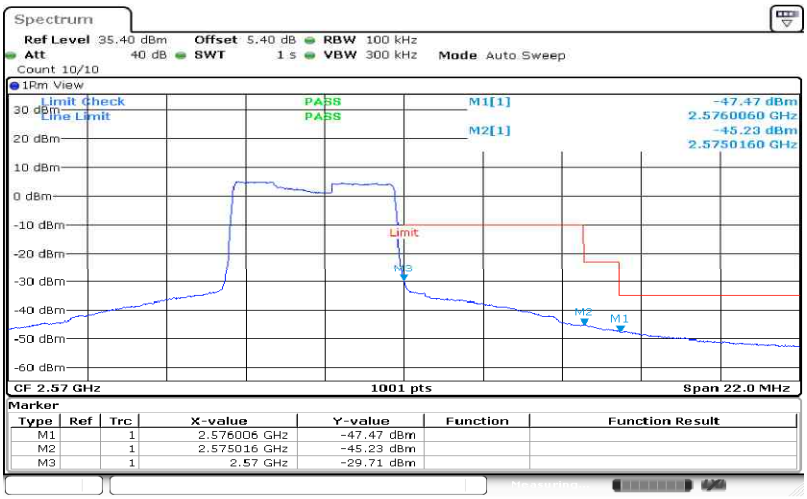
Band7-5MHz-16QAM-21425-25RB#0



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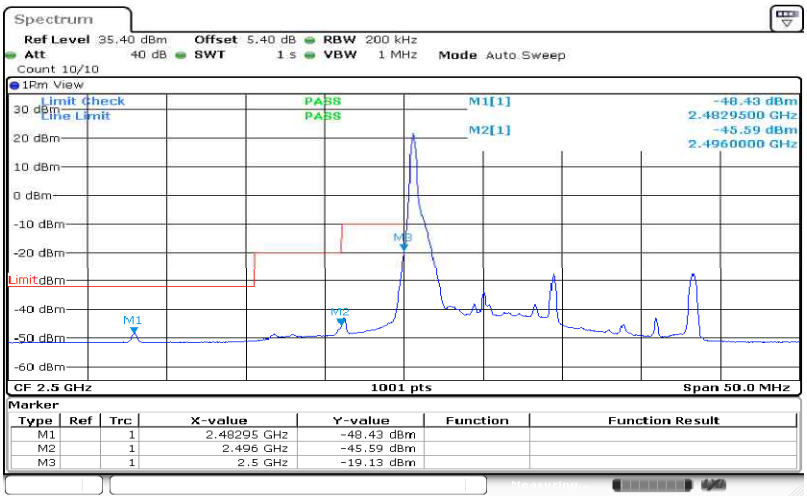

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Band7-10MHz-QPSK-20800-50RB#0

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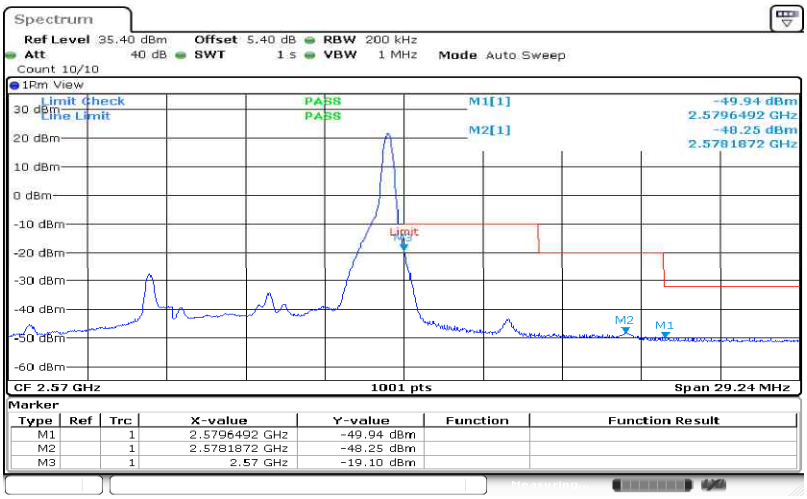
Band7-10MHz-QPSK-21400-1RB#49



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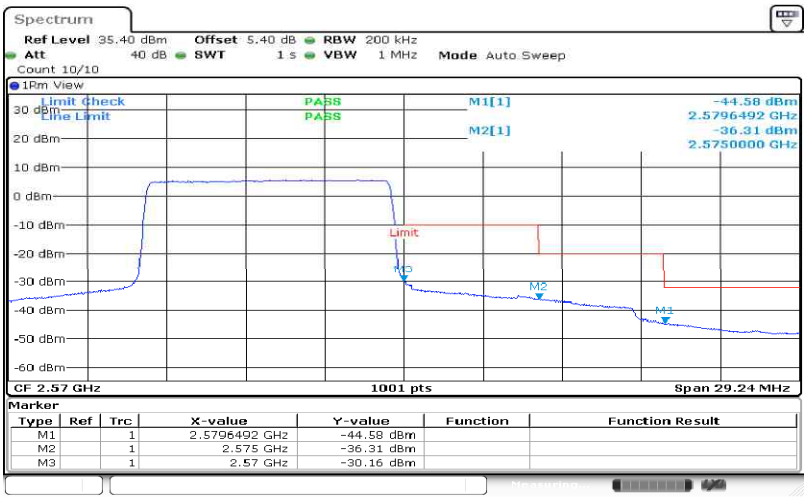
Band7-10MHz-QPSK-21400-50RB#0



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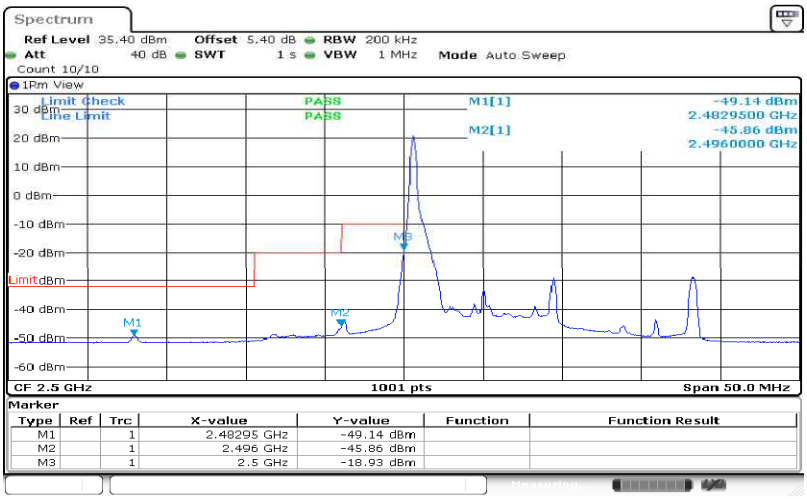
Band7-10MHz-16QAM-20800-1RB#0



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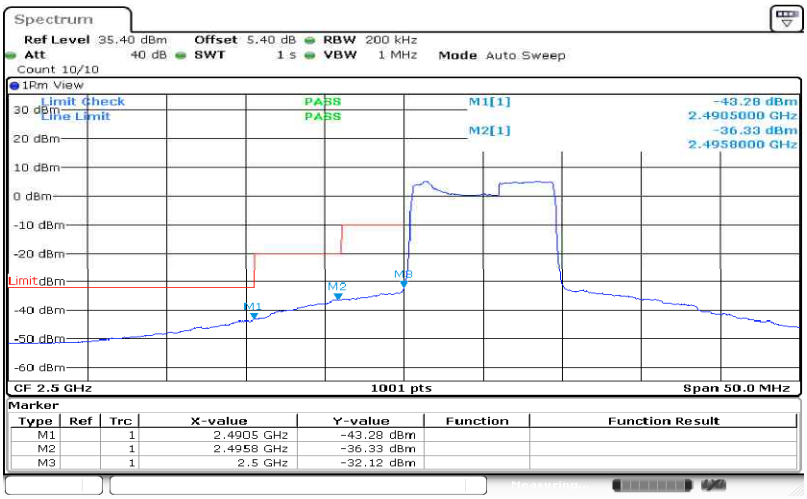
Band7-10MHz-16QAM-20800-50RB#0



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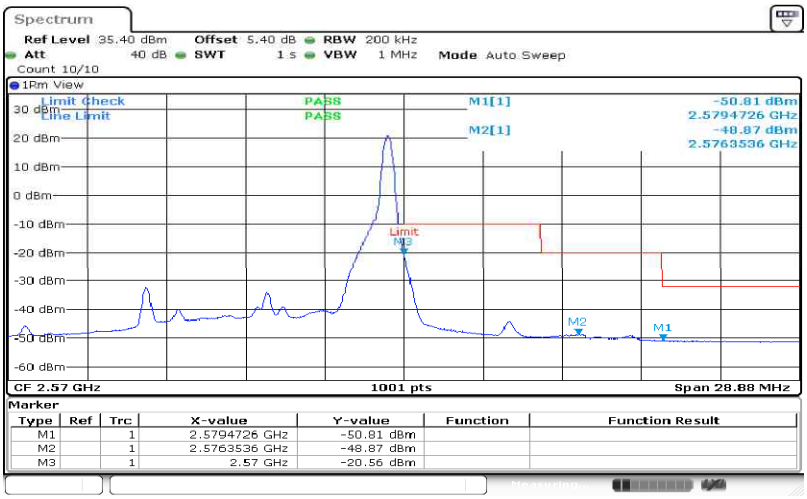
Band7-10MHz-16QAM-21400-1RB#49



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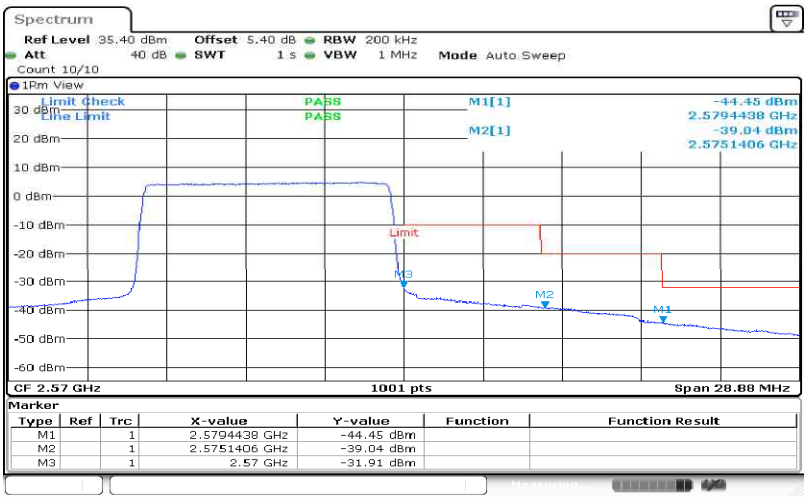
Band7-10MHz-16QAM-21400-50RB#0



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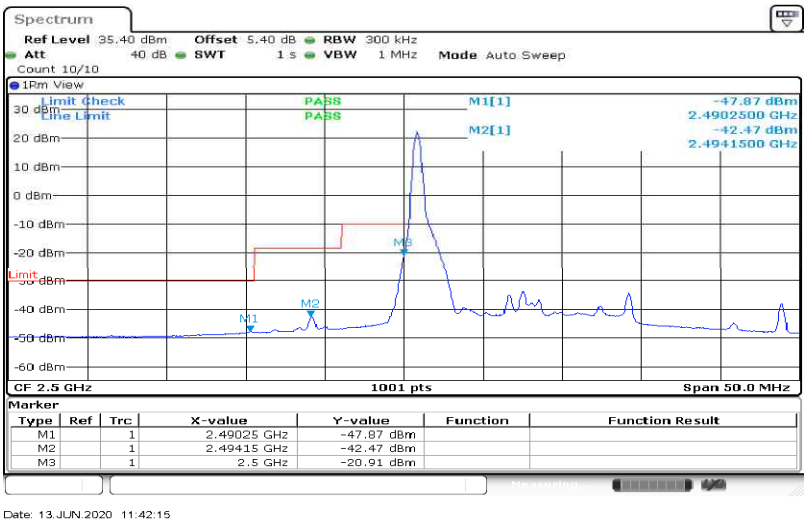
Band7-15MHz-QPSK-20825-1RB#0



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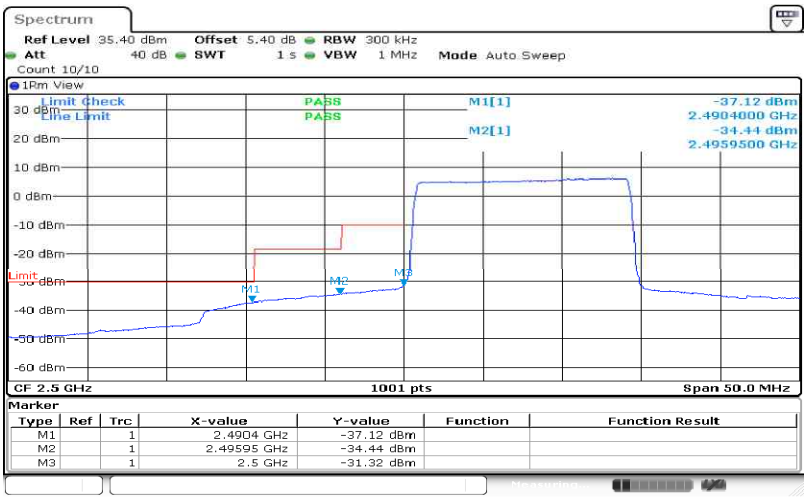
Band7-15MHz-QPSK-20825-75RB#0



Date: 13.JUN.2020 11:43:48

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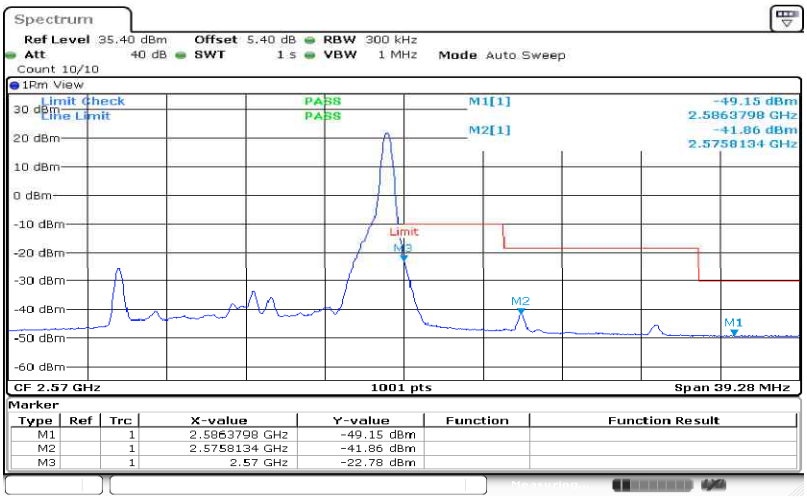
Band7-15MHz-QPSK-21375-1RB#74



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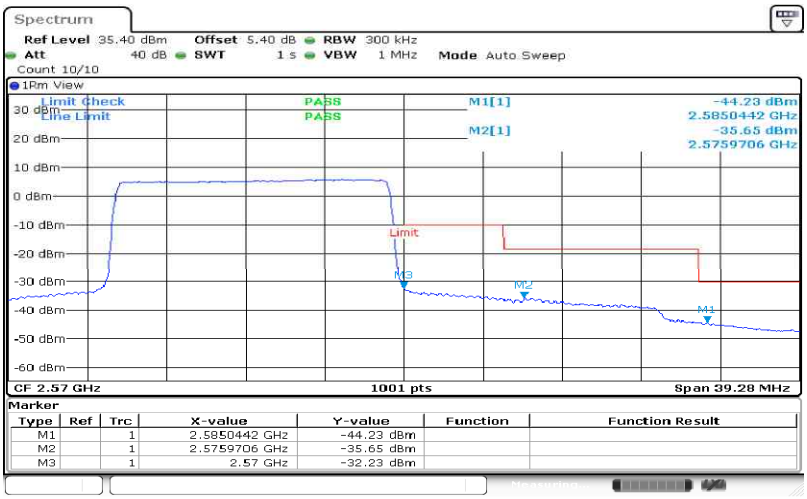
Band7-15MHz-QPSK-21375-75RB#0



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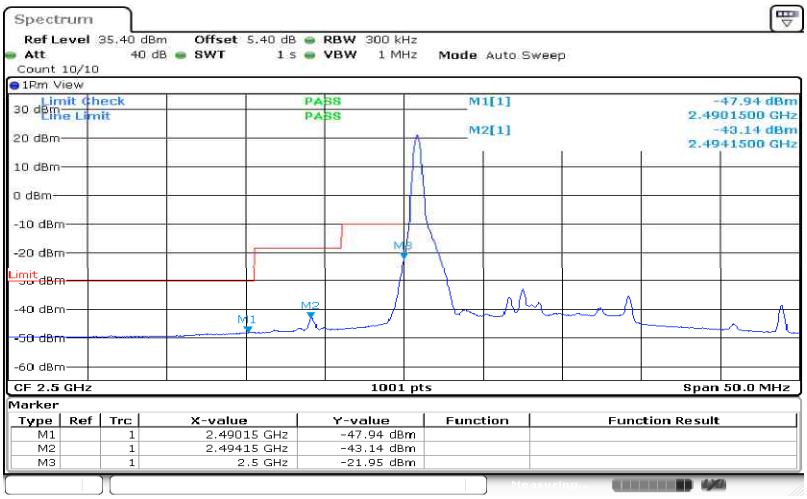
Band7-15MHz-16QAM-20825-1RB#0



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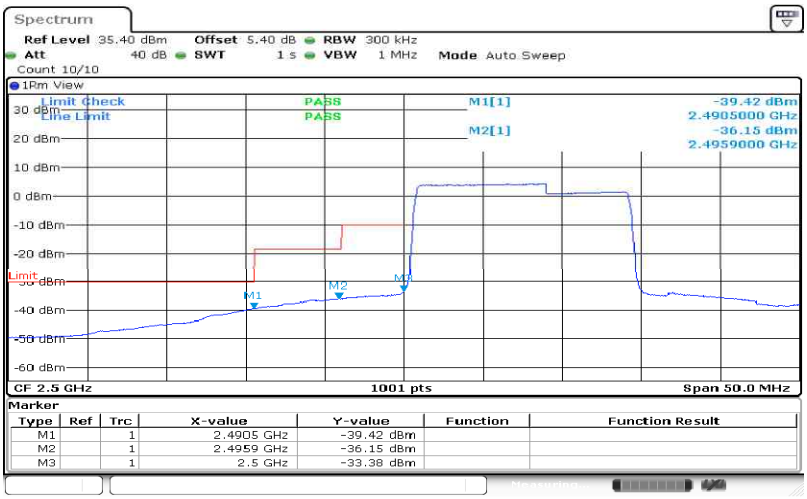
Band7-15MHz-16QAM-20825-75RB#0



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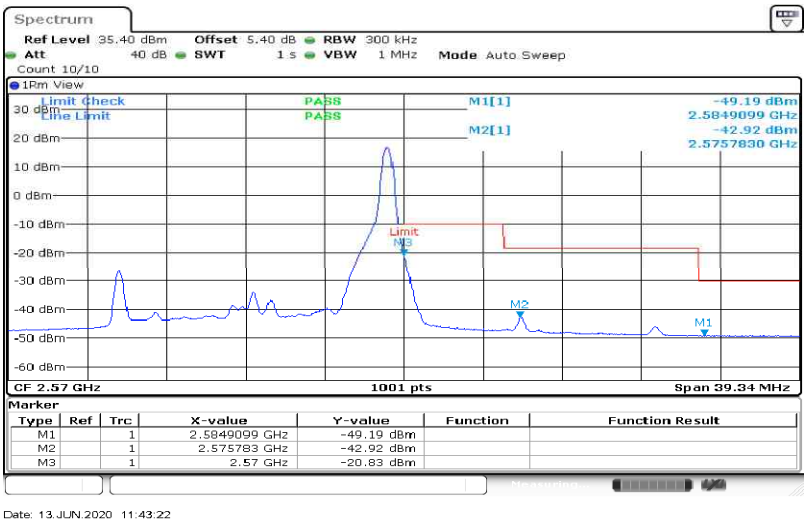
Band7-15MHz-16QAM-21375-1RB#74



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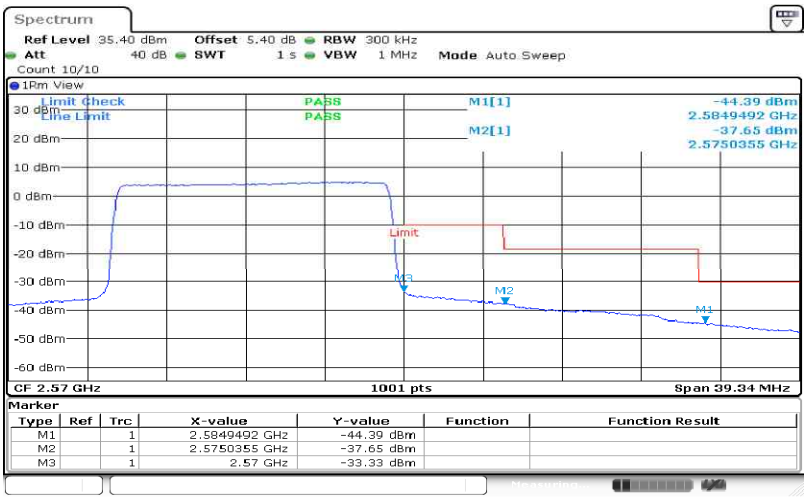
Band7-15MHz-16QAM-21375-75RB#0



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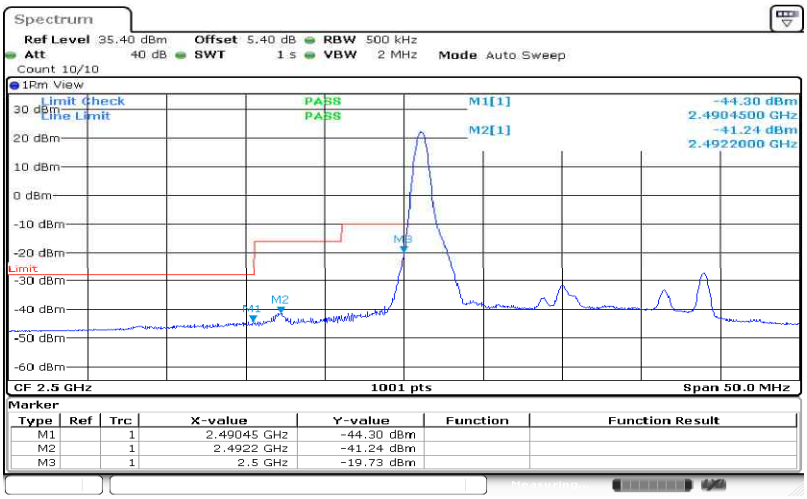
Band7-20MHz-QPSK-20850-1RB#0



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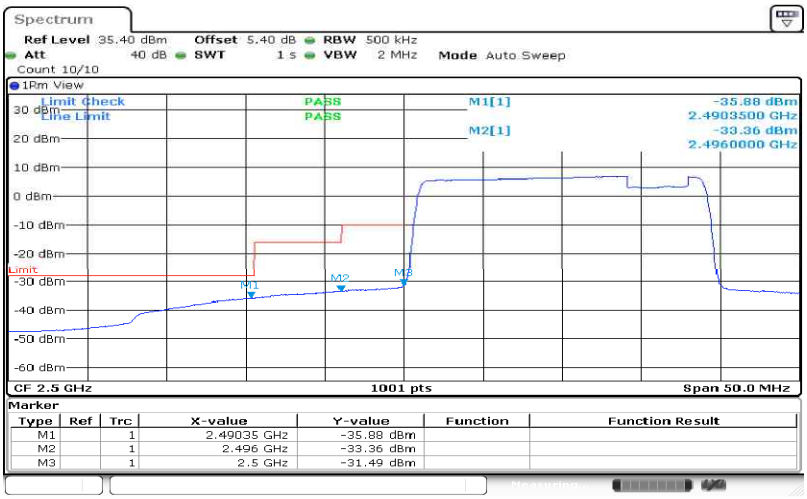
Band7-20MHz-QPSK-20850-100RB#0



Date: 13.JUN.2020 11:46:50

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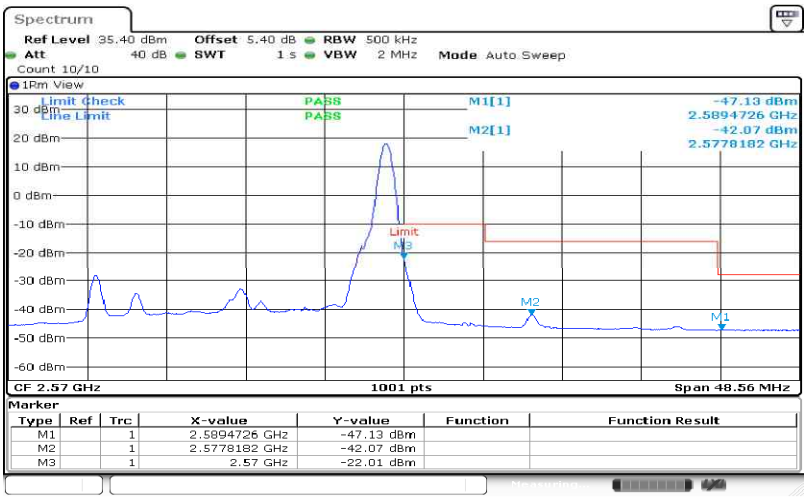
Band7-20MHz-QPSK-21350-1RB#99



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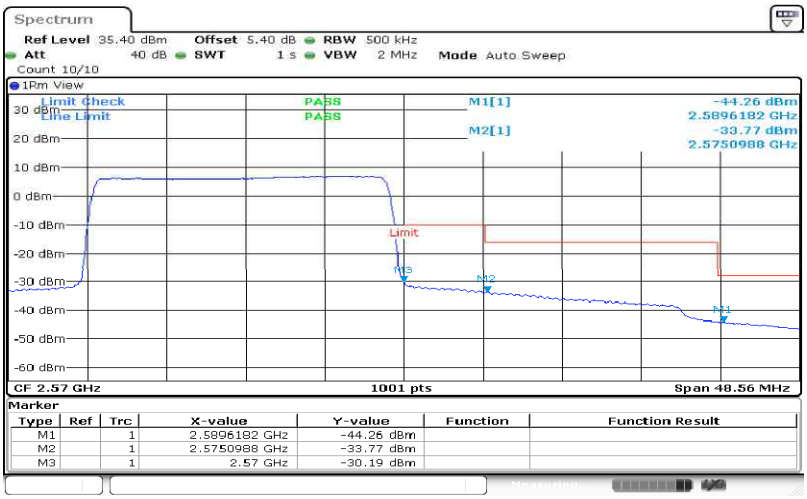
Band7-20MHz-QPSK-21350-100RB#0



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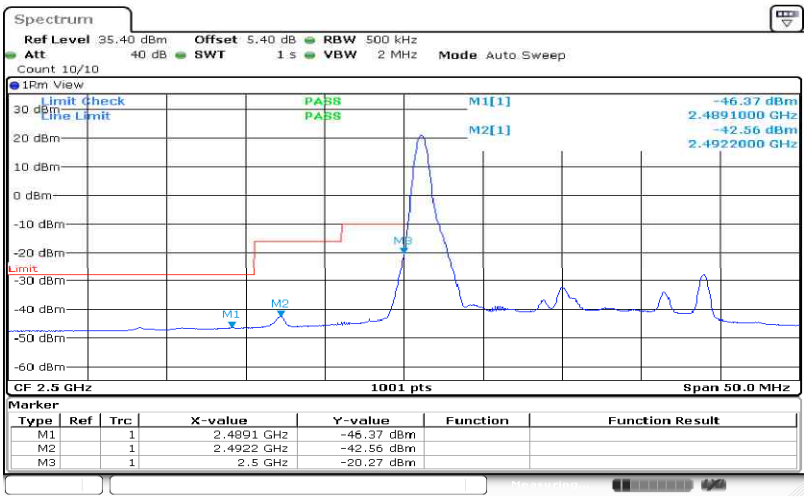
Band7-20MHz-16QAM-20850-1RB#0



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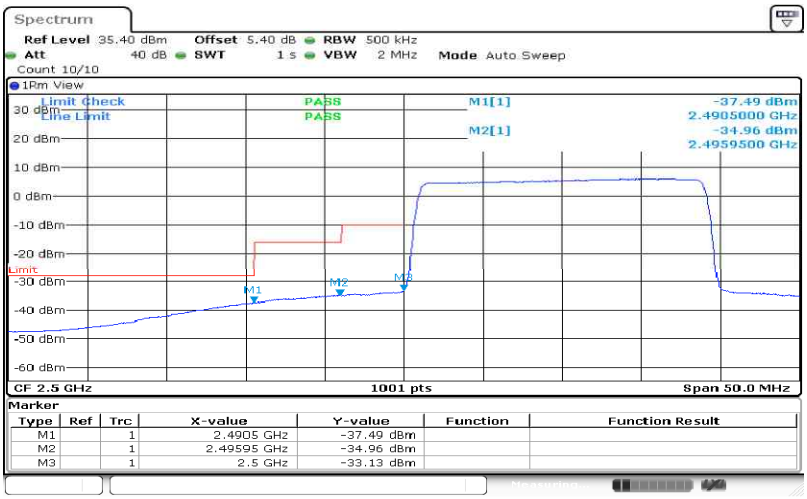

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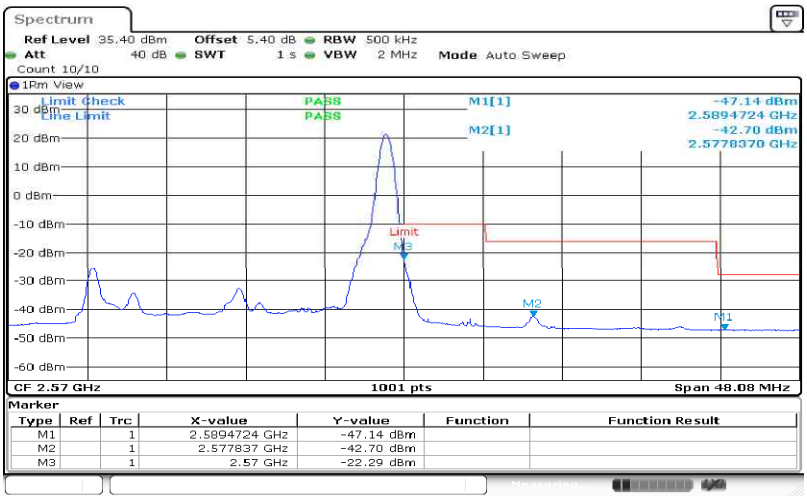
Band7-20MHz-16QAM-21350-1RB#99



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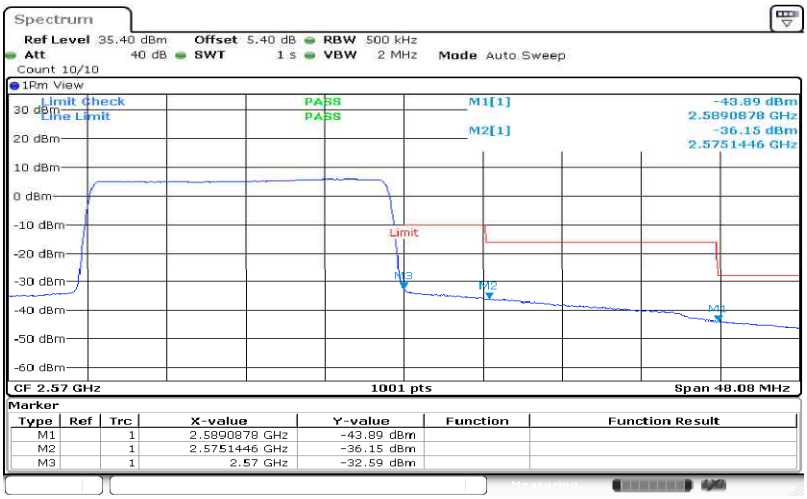

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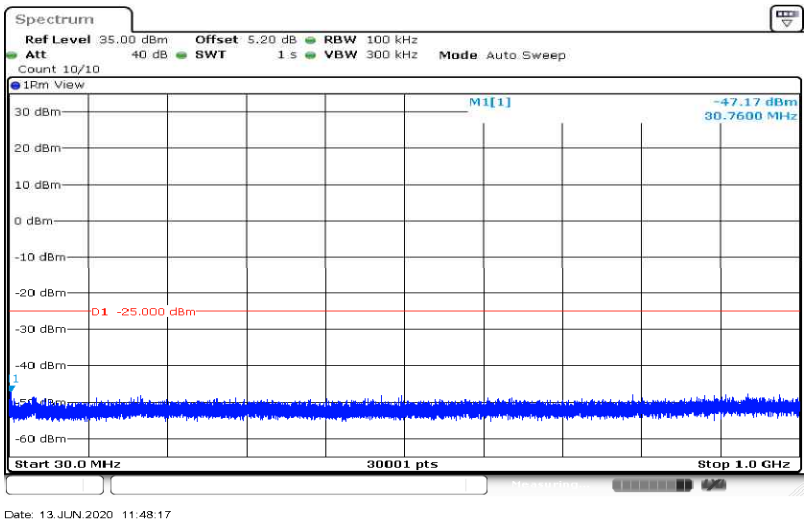
6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

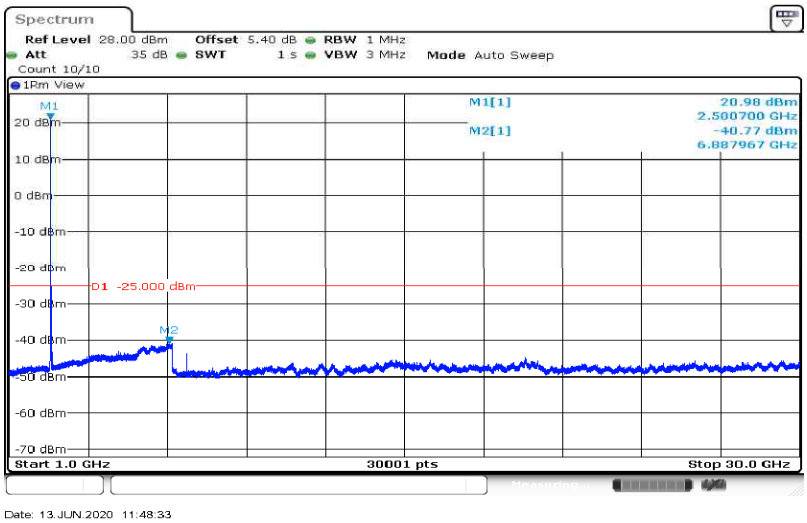
Remark2: only the worst case data displayed in this report.

6.1. Test Plots

Band7-20MHz-QPSK-20850-1RB#0-Range1:30~1000MHz



Band7-20MHz-QPSK-20850-1RB#0-Range2:1000~30000MHz



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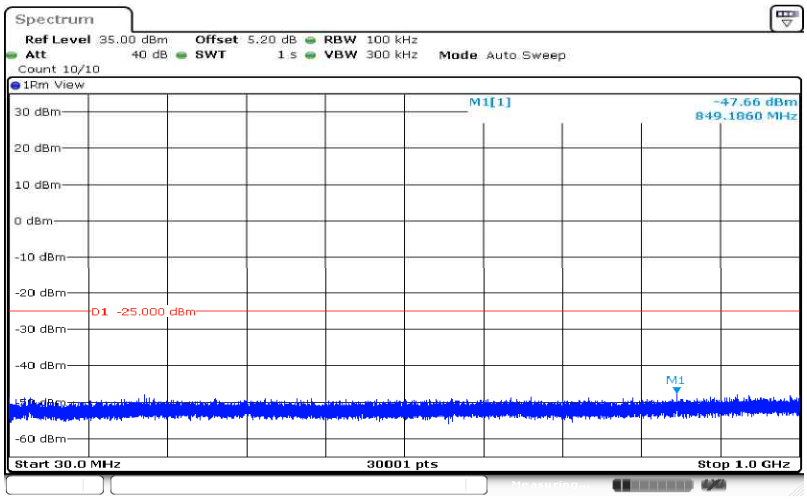
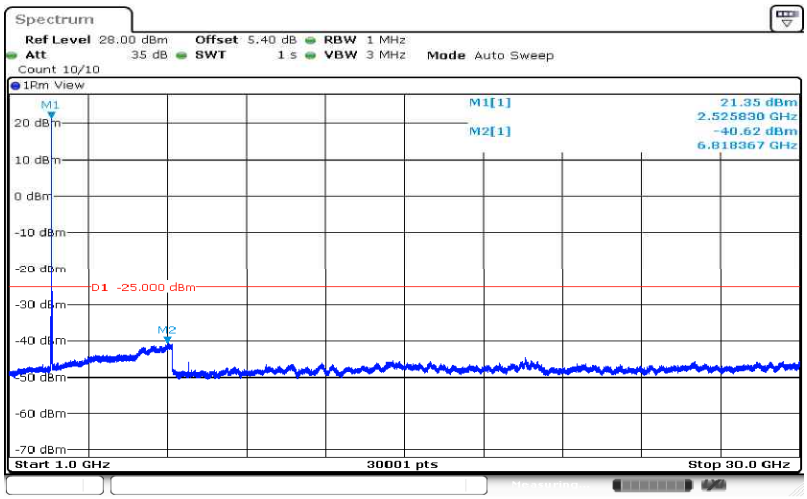
Band7-20MHz-QPSK-21100-1RB#0-Range1:30~1000MHz



Date: 13.JUN.2020 11:49:28

Band7-20MHz-QPSK-21100-1RB#0-Range2:1000~30000MHz



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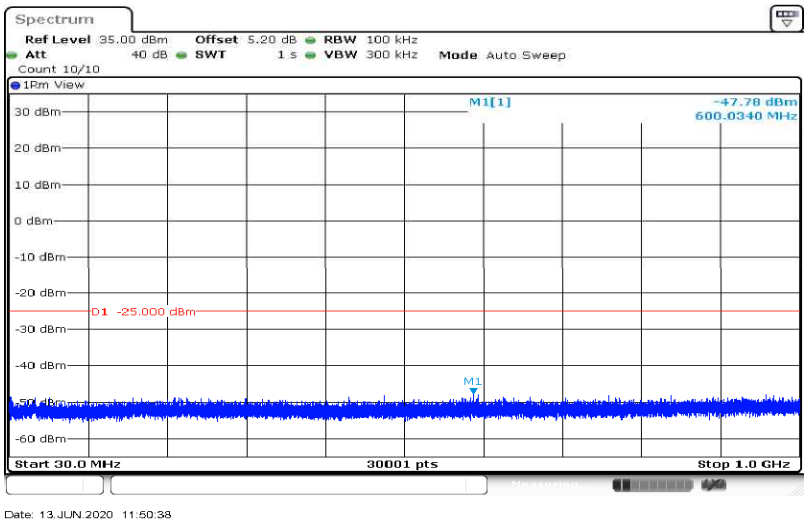
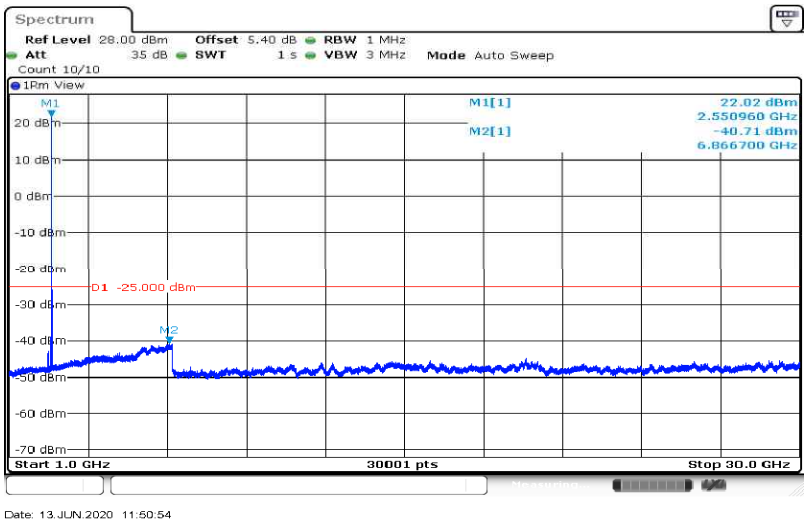
Band7-20MHz-QPSK-21350-1RB#0-Range1:30~1000MHz



Band7-20MHz-QPSK-21350-1RB#0-Range2:1000~30000MHz



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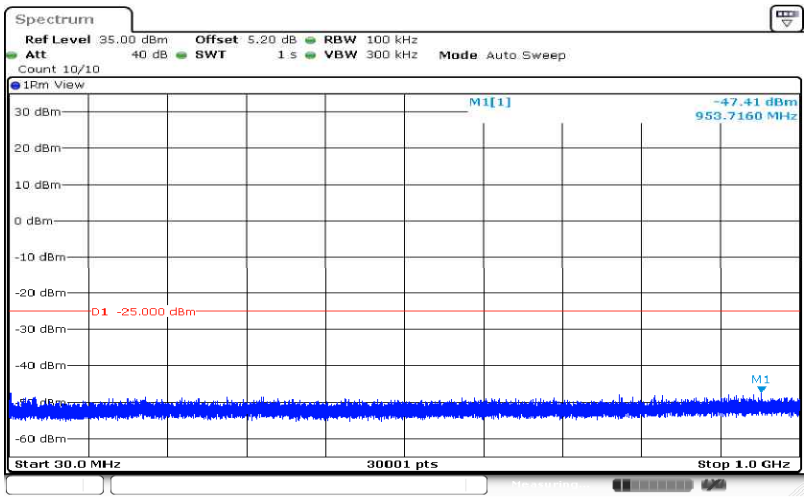
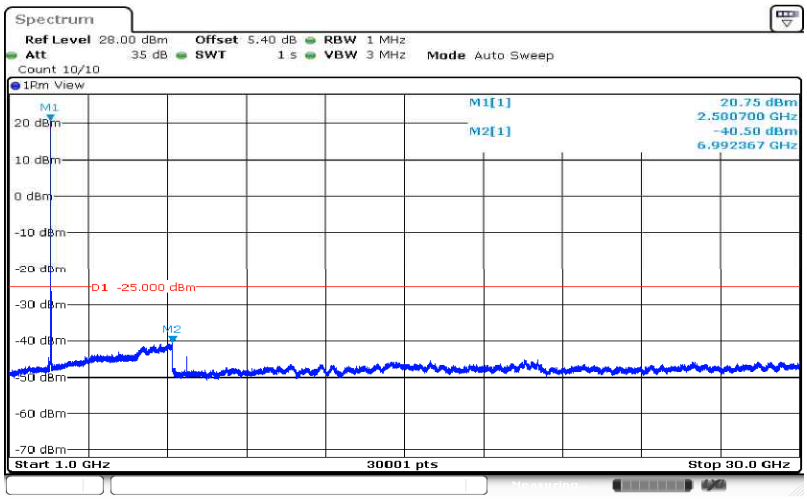
Band7-20MHz-16QAM-20850-1RB#0-Range1:30~1000MHz



Date: 13.JUN.2020 11:48:52

Band7-20MHz-16QAM-20850-1RB#0-Range2:1000~30000MHz



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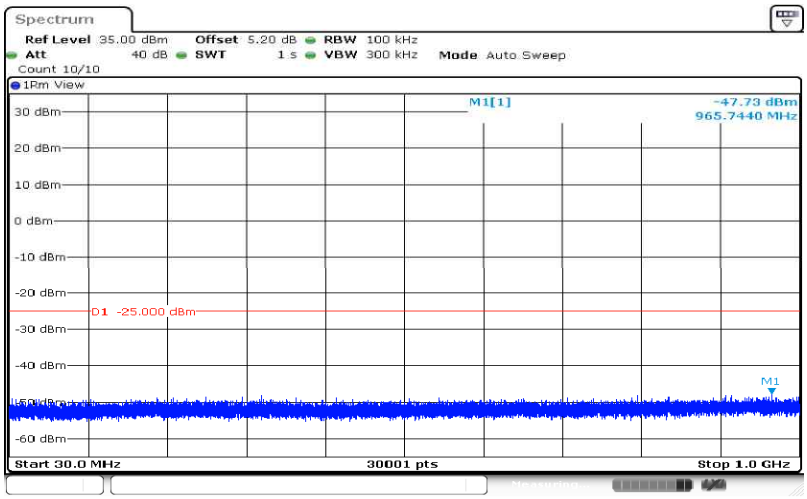

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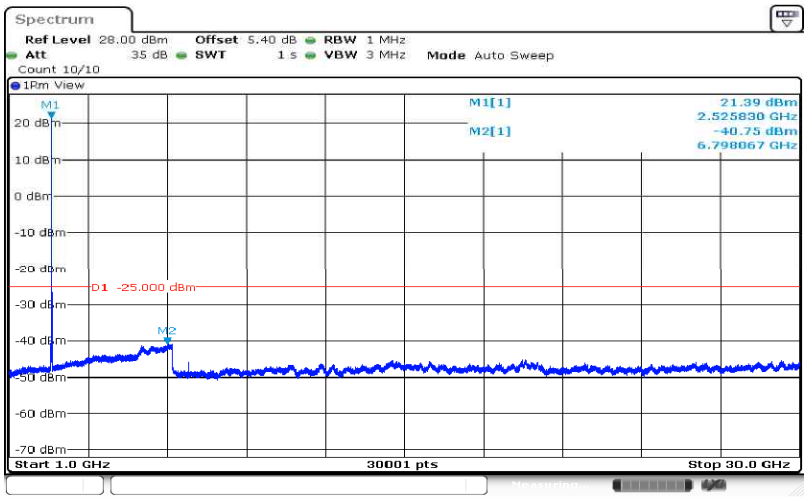
Band7-20MHz-16QAM-21100-1RB#0-Range2:1000~30000MHz



Date: 13.JUN.2020 11:50:19

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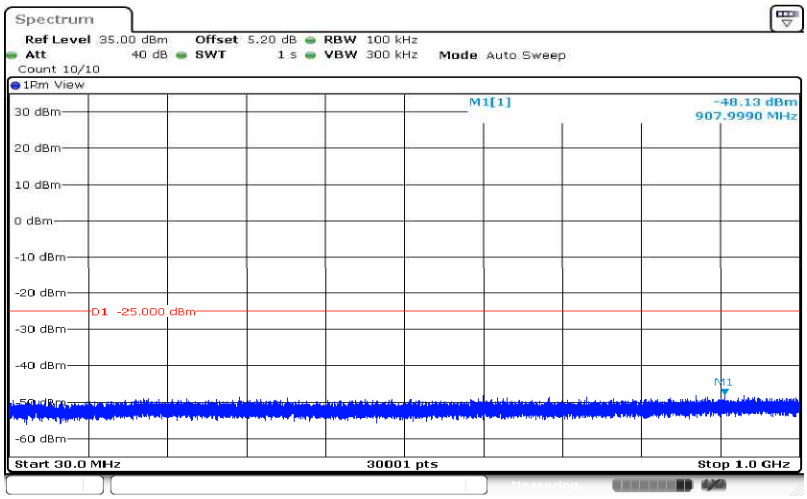

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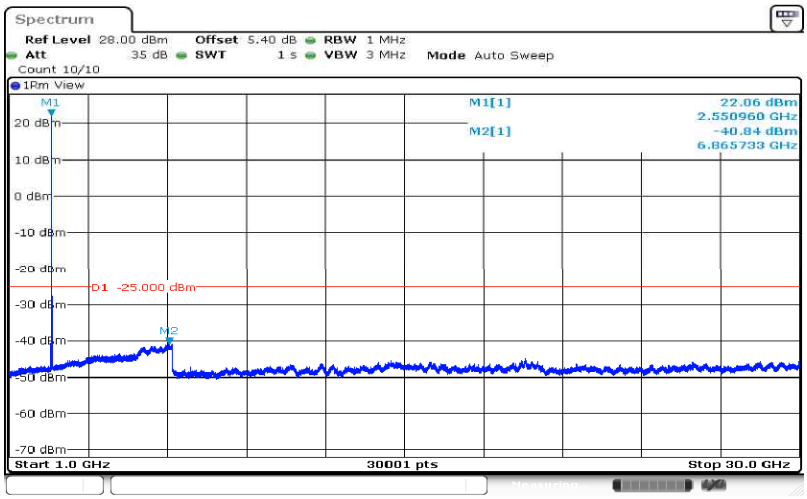

Date: 13.JUN.2020 11:51:29

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7. Field Strength of Spurious Radiation

7.1. Test Band = LTE Band 7

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
51.7776	-73.13	-25.00	48.13	Vertical
112.9391	-65.48	-25.00	40.48	Vertical
561.7806	-66.66	-25.00	41.66	Vertical
1749.7500	-43.17	-25.00	18.17	Vertical
9022.4409	-56.10	-25.00	31.10	Vertical
17996.9999	-42.65	-25.00	17.65	Vertical
43.7747	-64.90	-25.00	39.90	Horizontal
230.9455	-68.54	-25.00	43.54	Horizontal
405.5543	-68.44	-25.00	43.44	Horizontal
2985.9972	-39.56	-25.00	14.56	Horizontal
7458.1783	-58.86	-25.00	33.86	Horizontal
16399.7360	-45.90	-25.00	20.90	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.9345	-72.87	-25.00	47.87	Vertical
111.3871	-65.77	-25.00	40.77	Vertical
438.0024	-67.84	-25.00	42.84	Vertical
2979.1958	-39.58	-25.00	14.58	Vertical
7430.5772	-58.16	-25.00	33.16	Vertical
17998.1999	-42.58	-25.00	17.58	Vertical
40.1370	-65.20	-25.00	40.20	Horizontal
242.7801	-68.97	-25.00	43.97	Horizontal
528.8959	-66.61	-25.00	41.61	Horizontal
1521.3043	-47.48	-25.00	22.48	Horizontal
7457.5783	-58.61	-25.00	33.61	Horizontal
16389.5356	-45.93	-25.00	20.93	Horizontal

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7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.4980	-72.42	-25.00	47.42	Vertical
117.9834	-65.45	-25.00	40.45	Vertical
570.9961	-66.51	-25.00	41.51	Vertical
2939.1878	-39.48	-25.00	14.48	Vertical
8829.8332	-57.18	-25.00	32.18	Vertical
17987.3995	-42.51	-25.00	17.51	Vertical
44.4052	-64.79	-25.00	39.79	Horizontal
236.7173	-69.18	-25.00	44.18	Horizontal
508.2824	-66.44	-25.00	41.44	Horizontal
1750.5501	-44.08	-25.00	19.08	Horizontal
6544.9418	-61.89	-25.00	36.89	Horizontal
16391.3357	-45.41	-25.00	20.41	Horizontal

Remark:

1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.

2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.

3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.

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8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	VL	NT	-6.00	-0.002390	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VN	NT	-1.90	-0.000757	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VH	NT	-0.80	-0.000319	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	-14.80	-0.005838	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-1.20	-0.000473	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-0.90	-0.000355	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VL	NT	2.50	0.000977	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VN	NT	4.00	0.001563	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VH	NT	-8.30	-0.003242	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VL	NT	-6.80	-0.002709	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VN	NT	-15.50	-0.006175	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VH	NT	-11.80	-0.004701	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VL	NT	5.60	0.002209	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VN	NT	-6.70	-0.002643	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VH	NT	9.50	0.003748	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VL	NT	-8.80	-0.003438	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VN	NT	13.50	0.005273	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VH	NT	-9.30	-0.003633	±2.5	PASS

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8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	NV	-30	-8.30	-0.003307	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	-20	5.50	0.002191	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	0	-8.90	-0.003546	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	10	-10.30	-0.004104	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	20	-7.10	-0.002829	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	30	-5.10	-0.002032	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	40	-9.80	-0.003904	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	50	8.80	0.003506	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	-16.00	-0.006312	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	4.40	0.001736	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	7.90	0.003116	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	2.00	0.000789	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-8.80	-0.003471	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-1.60	-0.000631	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	6.00	0.002367	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-0.30	-0.000118	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-30	-8.60	-0.003359	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-20	10.00	0.003906	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	0	-4.90	-0.001914	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	10	-18.90	-0.007383	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	20	-14.20	-0.005547	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	30	5.20	0.002031	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	40	6.10	0.002383	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	50	-9.30	-0.003633	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-30	-3.80	-0.001514	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-20	11.40	0.004542	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	0	7.30	0.002908	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	10	2.20	0.000876	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	20	-12.10	-0.004821	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	30	1.70	0.000677	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	40	6.00	0.002390	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	50	-3.90	-0.001554	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-30	6.00	0.002367	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-20	-11.30	-0.004458	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	0	-9.90	-0.003905	±2.5	PASS

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Band7	20MHz	16QAM	21100	100RB#0	NV	10	-14.50	-0.005720	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	20	4.40	0.001736	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	30	-4.10	-0.001617	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	40	-2.70	-0.001065	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	50	-1.60	-0.000631	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-30	-6.90	-0.002695	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-20	-7.50	-0.002930	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	0	2.40	0.000938	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	10	-10.30	-0.004023	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	20	-2.60	-0.001016	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	30	1.70	0.000664	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	40	-4.80	-0.001875	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	50	-2.30	-0.000898	±2.5	PASS

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