



Appendix B

E-UTRA Band 5



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Shenzhen Branch (SGS-CSTC) Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	limit (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.81	22.16	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.93	22.28	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.97	22.32	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	23.63	21.98	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.70	22.05	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.76	22.11	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.67	21.02	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.86	22.21	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.99	22.34	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.77	22.12	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.72	22.07	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	23.75	22.1	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.76	22.11	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.88	21.23	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.91	22.26	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	24.01	22.36	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.78	22.13	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	23.68	22.03	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	23.64	21.99	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.52	21.87	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.80	21.15	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.09	20.44	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.19	20.54	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.09	20.44	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	22.86	21.21	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	22.83	21.18	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	22.79	21.14	38.45	PASS



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SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057
中国·深圳·科技园中区M-10栋一号厂房

t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band5	1.4MHz	16QAM	20407	6RB#0	21.90	20.25	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	23.03	21.38	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	23.09	21.44	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.97	21.32	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	22.89	21.24	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	22.91	21.26	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	22.85	21.2	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.98	20.33	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.99	21.34	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	23.12	21.47	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.90	21.25	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	22.93	21.28	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	22.71	21.06	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	22.70	21.05	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.90	20.25	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.65	22	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.95	22.3	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.92	22.27	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#4	22.96	21.31	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.97	21.32	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#7	23.05	21.4	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.91	21.26	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.65	22	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	24.12	22.47	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	24.03	22.38	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#7	23.09	21.44	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#0	23.08	21.43	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#4	23.08	21.43	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	23.03	21.38	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.78	22.13	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	24.19	22.54	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.73	22.08	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#7	23.00	21.35	38.45	PASS



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Band5	3MHz	QPSK	20635	8RB#0	22.97	21.32	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#4	22.90	21.25	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	23.01	21.36	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.20	20.55	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.37	20.72	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.34	20.69	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#4	22.10	20.45	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#0	22.11	20.46	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#7	22.19	20.54	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	22.10	20.45	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	23.34	21.69	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	23.13	21.48	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	23.35	21.7	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#0	22.18	20.53	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#7	22.20	20.55	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#4	22.10	20.45	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	22.06	20.41	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.97	21.32	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.54	20.89	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.35	20.7	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#0	22.11	20.46	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#4	22.02	20.37	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#7	22.09	20.44	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	22.17	20.52	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.59	21.94	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.86	22.21	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.76	22.11	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.93	21.28	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#6	23.08	21.43	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#0	22.98	21.33	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	23.00	21.35	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.69	22.04	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.97	22.32	38.45	PASS



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Band5	5MHz	QPSK	20525	1RB#24	23.83	22.18	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#0	23.03	21.38	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#6	23.05	21.4	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.99	21.34	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	23.07	21.42	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.76	22.11	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.82	22.17	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.71	22.06	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#0	23.02	21.37	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#6	22.92	21.27	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.95	21.3	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	23.07	21.42	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.32	20.67	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.10	20.45	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.58	20.93	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#0	22.07	20.42	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#13	22.22	20.57	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#6	22.12	20.47	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.95	20.3	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.94	21.29	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	23.00	21.35	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.85	21.2	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#0	22.16	20.51	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#6	22.10	20.45	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#13	22.14	20.49	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	22.22	20.57	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	23.00	21.35	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.93	21.28	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.28	20.63	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#0	21.97	20.32	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.97	20.32	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#13	21.74	20.09	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	22.04	20.39	38.45	PASS



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Band5	10MHz	QPSK	20450	1RB#0	23.71	22.06	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	24.02	22.37	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.80	22.15	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#12	23.01	21.36	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#0	23.00	21.35	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#25	23.13	21.48	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	23.05	21.4	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.72	22.07	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	24.16	22.51	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.78	22.13	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#0	23.13	21.48	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#12	23.21	21.56	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#25	23.06	21.41	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	23.19	21.54	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.83	22.18	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	24.33	22.68	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.94	22.29	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#12	23.16	21.51	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#0	23.17	21.52	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#25	23.04	21.39	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	23.15	21.5	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.78	21.13	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	23.55	21.9	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.96	21.31	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#0	22.05	20.4	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#12	22.07	20.42	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#25	22.03	20.38	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.94	20.29	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.07	21.42	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	23.34	21.69	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.63	20.98	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#0	22.09	20.44	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#12	22.20	20.55	38.45	PASS



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Band5	10MHz	16QAM	20525	25RB#25	22.12	20.47	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	22.09	20.44	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	23.03	21.38	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	23.60	21.95	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.79	21.14	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#25	22.04	20.39	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#12	22.03	20.38	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#0	22.21	20.56	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	22.25	20.6	38.45	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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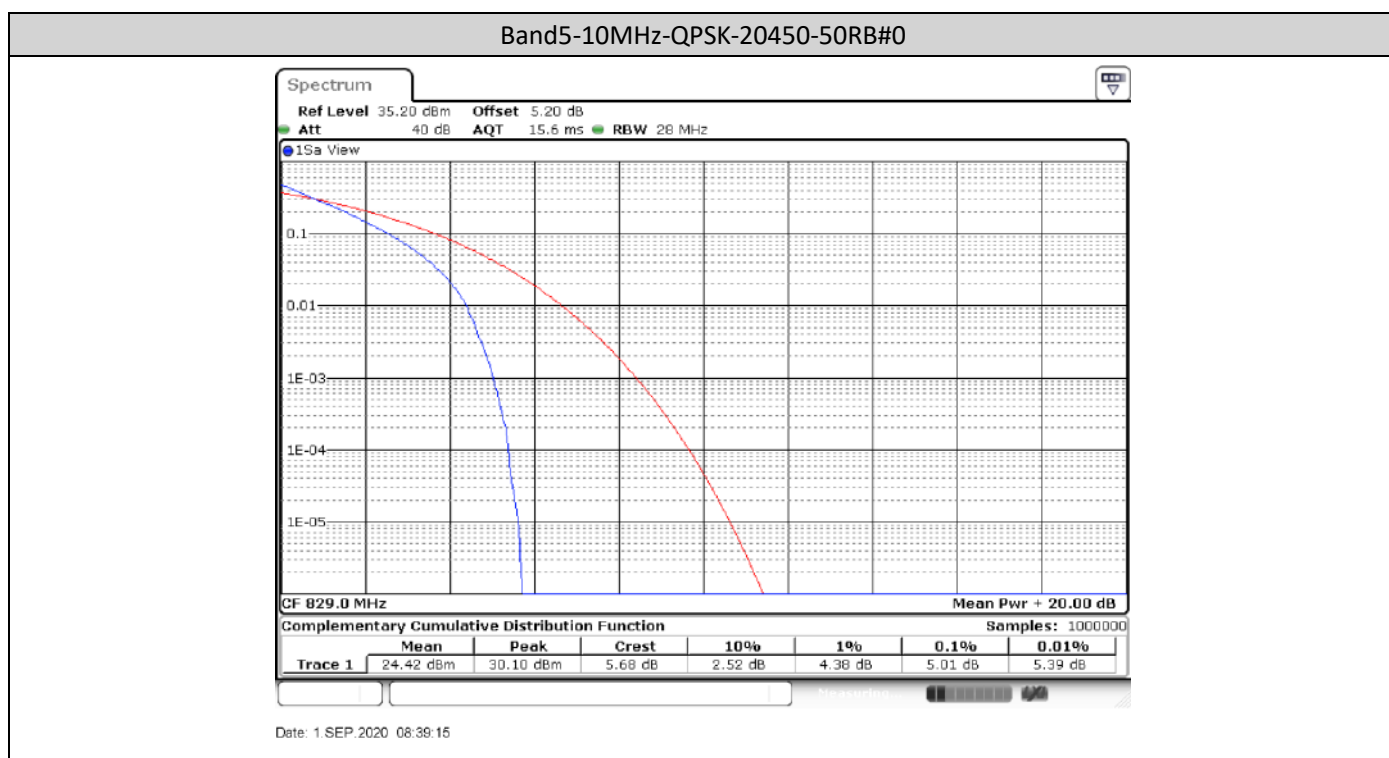


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

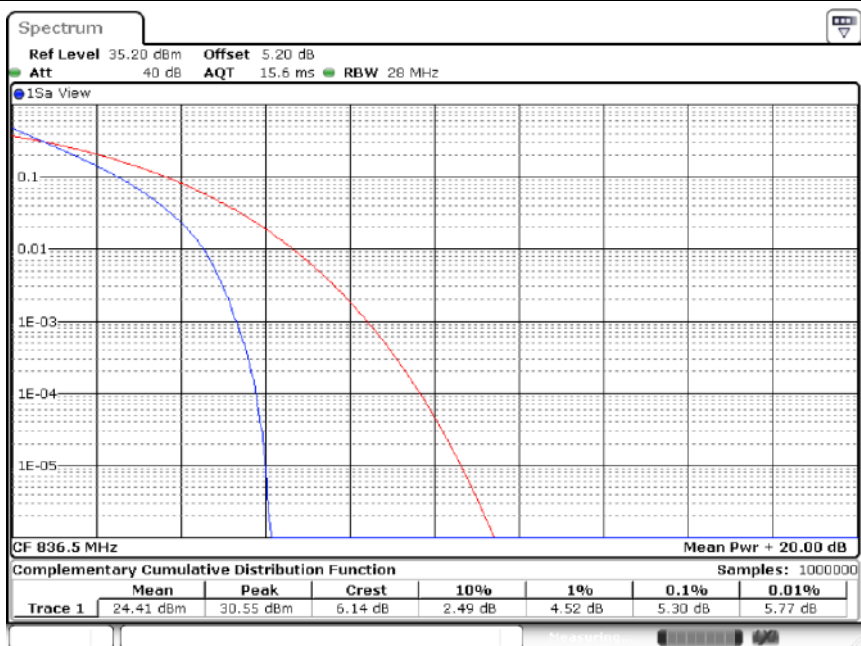
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	5.01	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.30	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.22	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.83	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.09	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.00	13	PASS

2.2. Test Plots



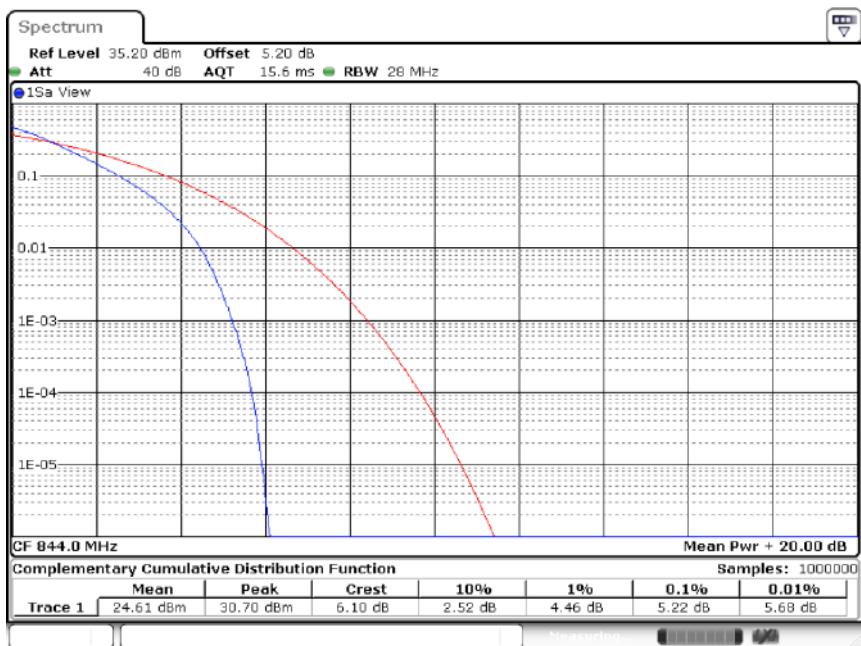


Band5-10MHz-QPSK-20525-50RB#0



Date: 1 SEP 2020 08:39:39

Band5-10MHz-QPSK-20600-50RB#0



Date: 1 SEP 2020 08:40:01



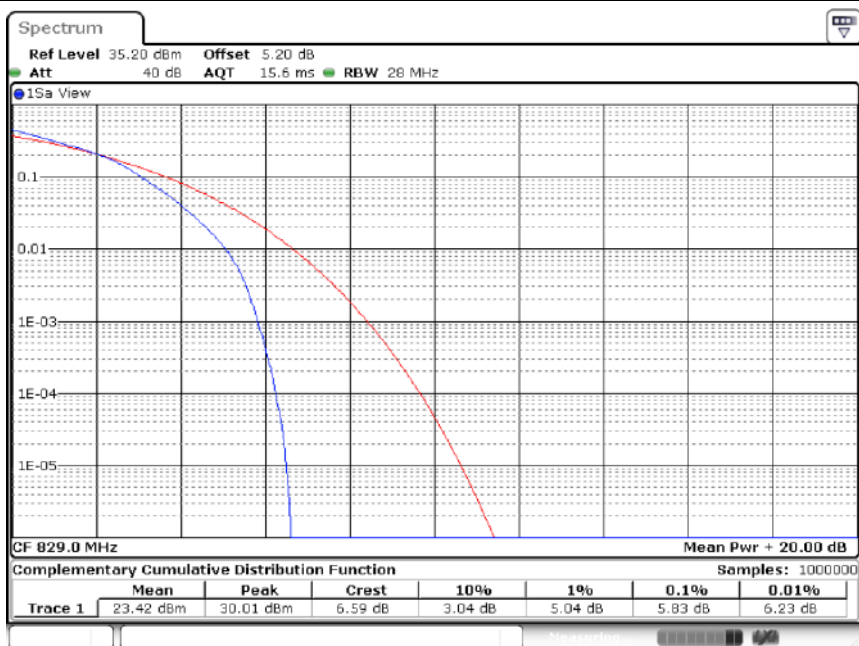
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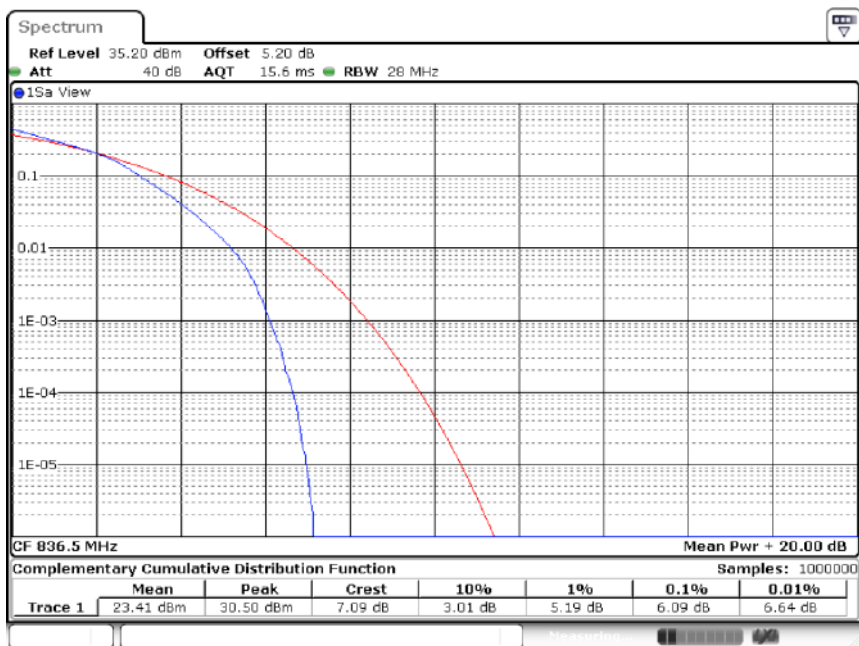
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Band5-10MHz-16QAM-20450-50RB#0



Date: 1 SEP 2020 08:39:27

Band5-10MHz-16QAM-20525-50RB#0



Date: 1 SEP 2020 08:39:50



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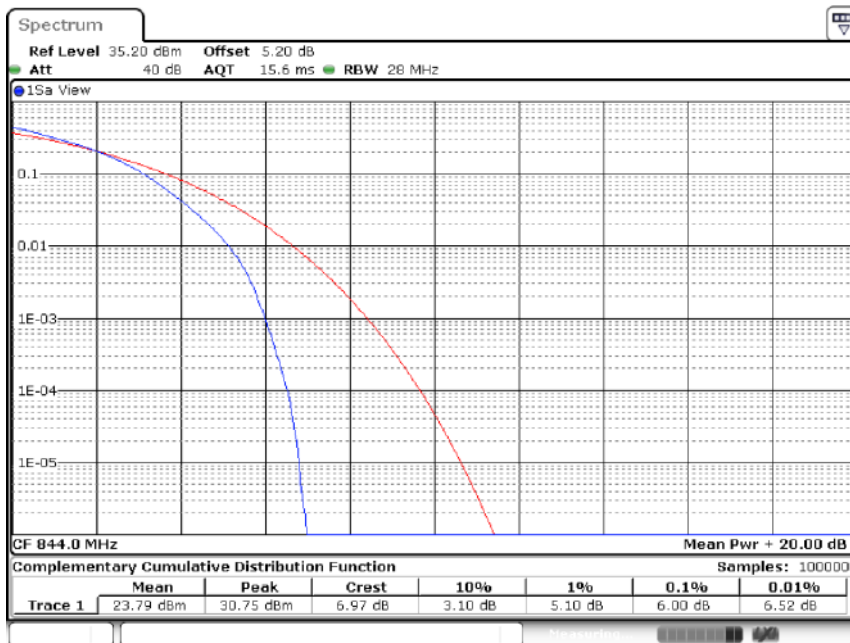
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Band5-10MHz-16QAM-20600-50RB#0



Date: 1.SEP.2020 08:40:13

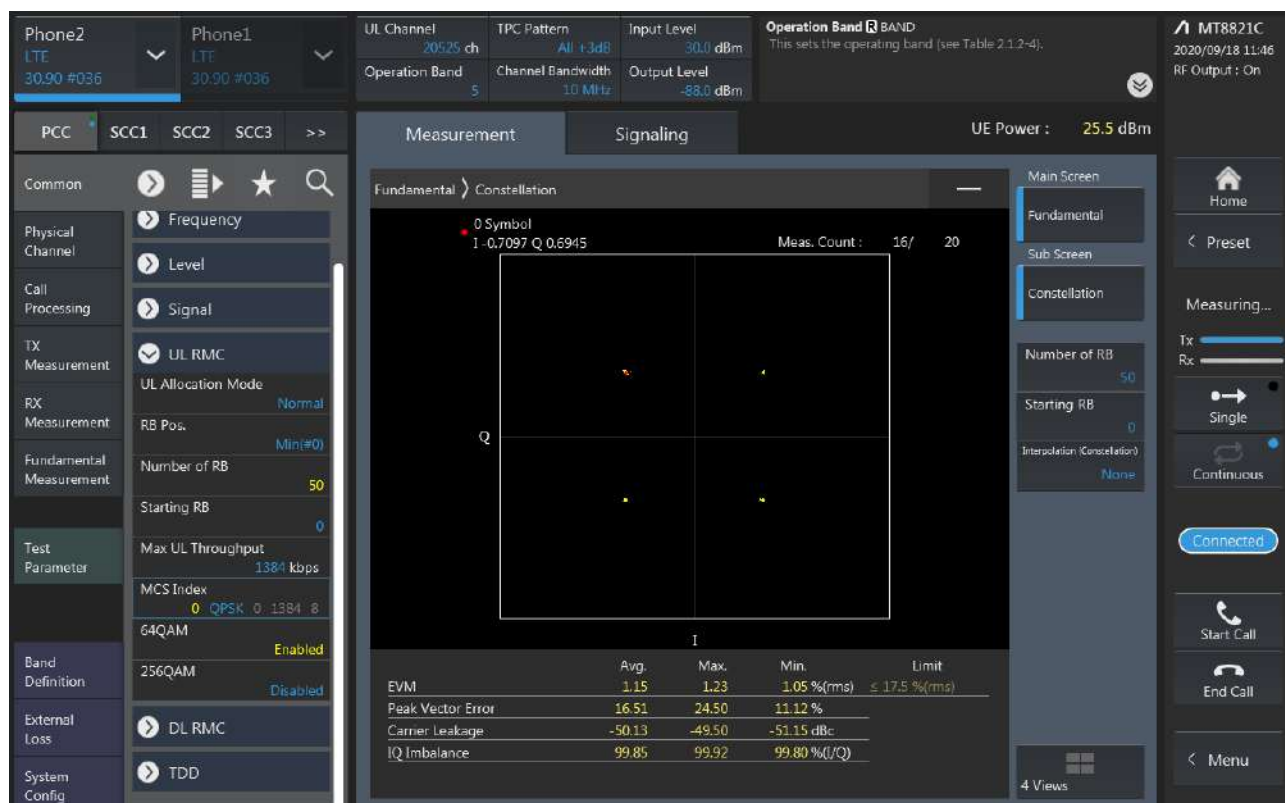




3. Modulation Characteristics

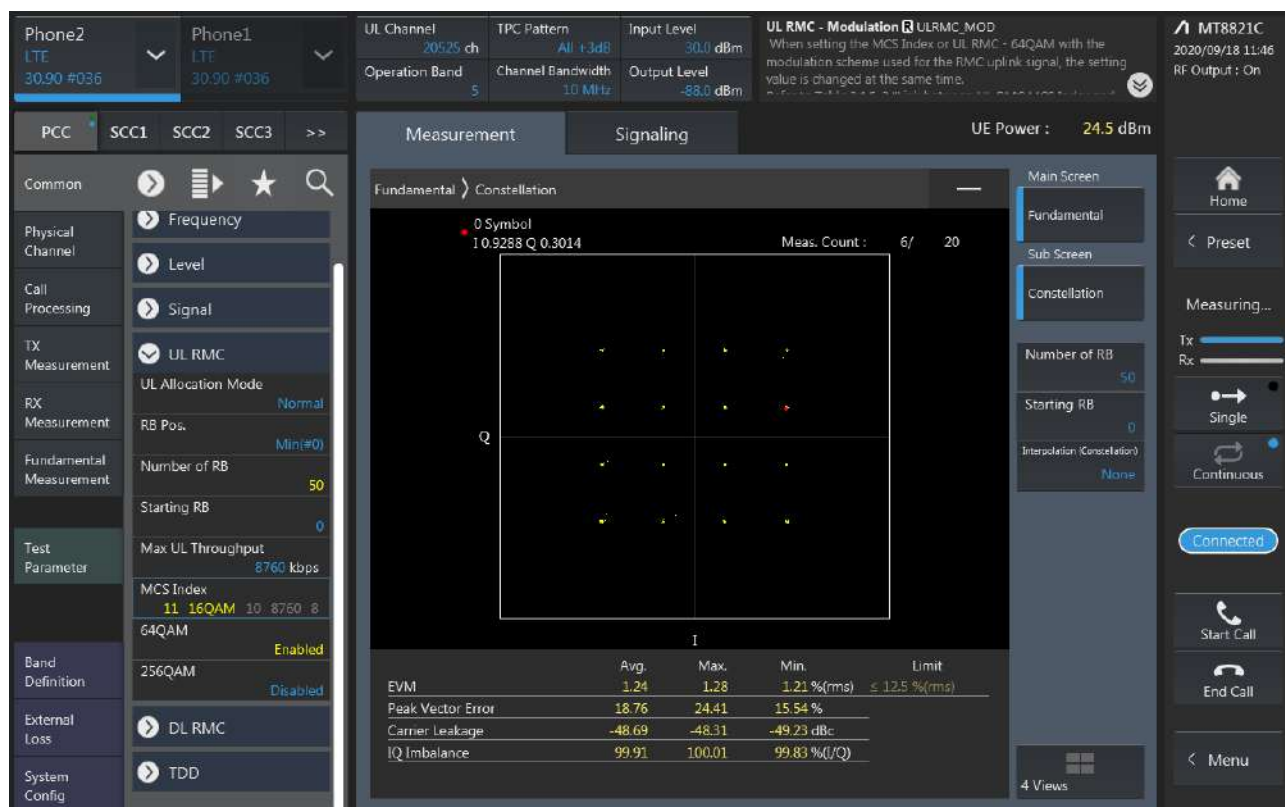
3.1. Test Mode = LTE /TM1 10MHz

3.1.1. Test Channel = MCH



3.2. Test Mode = LTE /TM2 10MHz

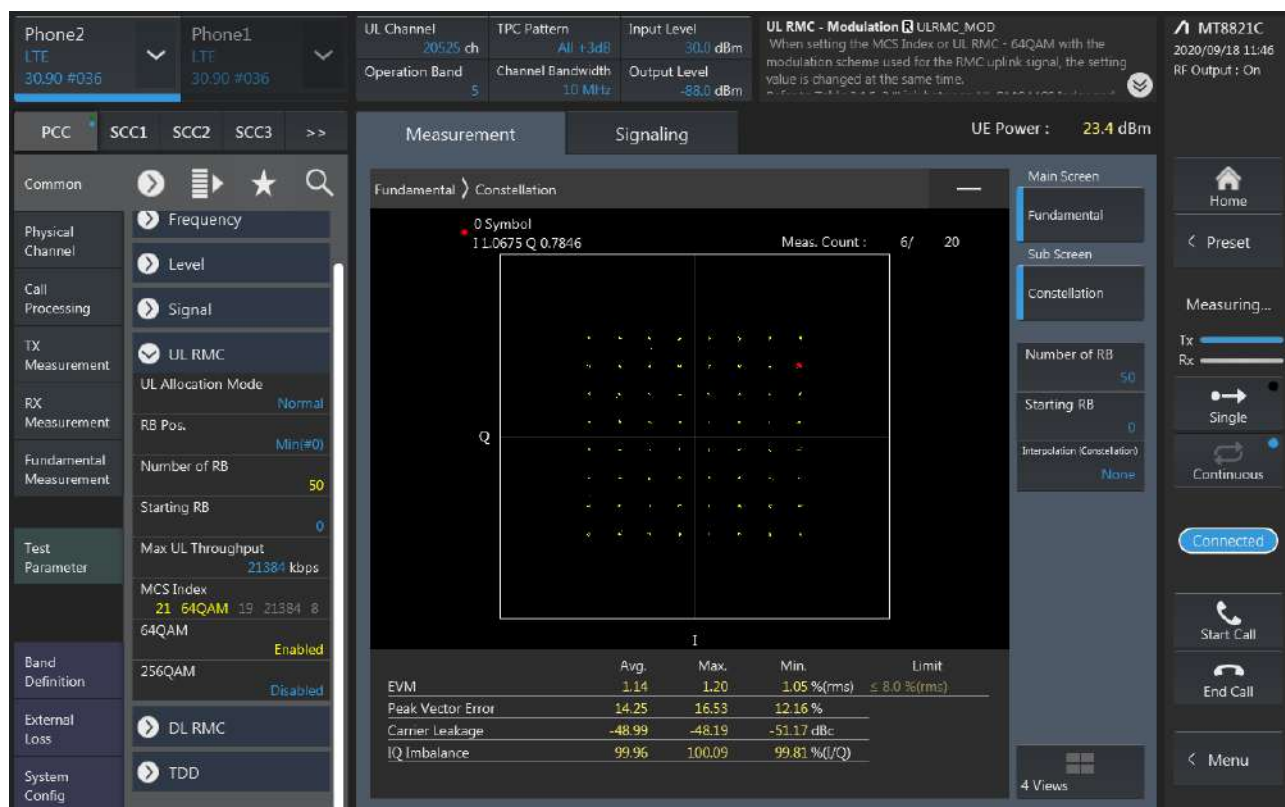
3.2.1. Test Channel = MCH





3.3. Test Mode = LTE /TM3 10MHz

3.3.1. Test Channel = MCH





4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

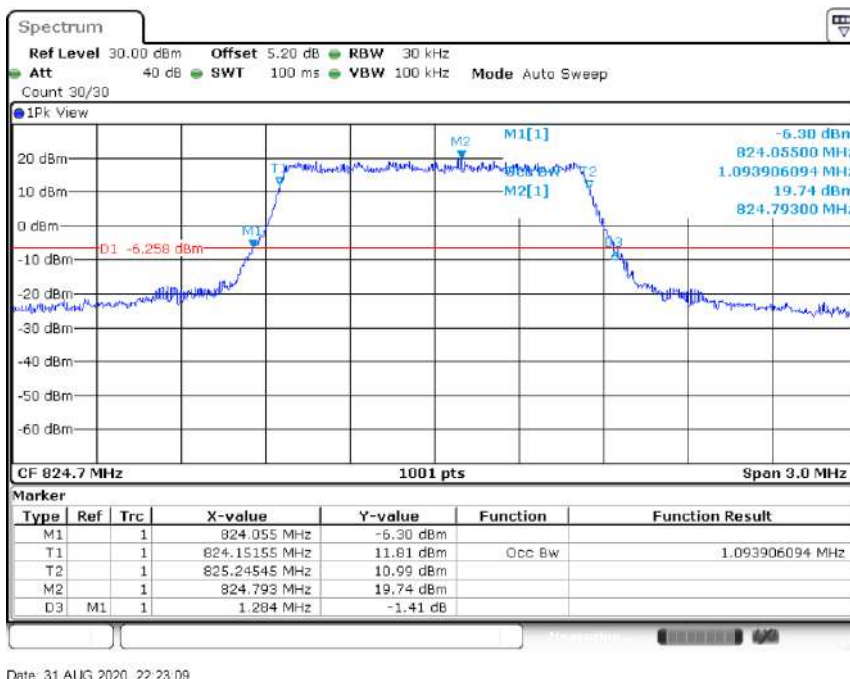
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.094	1.284	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.091	1.296	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.091	1.293	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.091	1.293	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.091	1.287	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.091	1.287	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.691	2.988	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.697	2.982	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.697	2.994	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.685	2.970	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.685	2.964	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.691	2.982	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.466	4.900	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.476	4.940	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.476	4.930	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.486	4.960	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.496	4.950	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.486	4.940	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.931	9.660	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.911	9.700	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.911	9.680	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.911	9.700	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.931	9.720	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.891	9.680	PASS



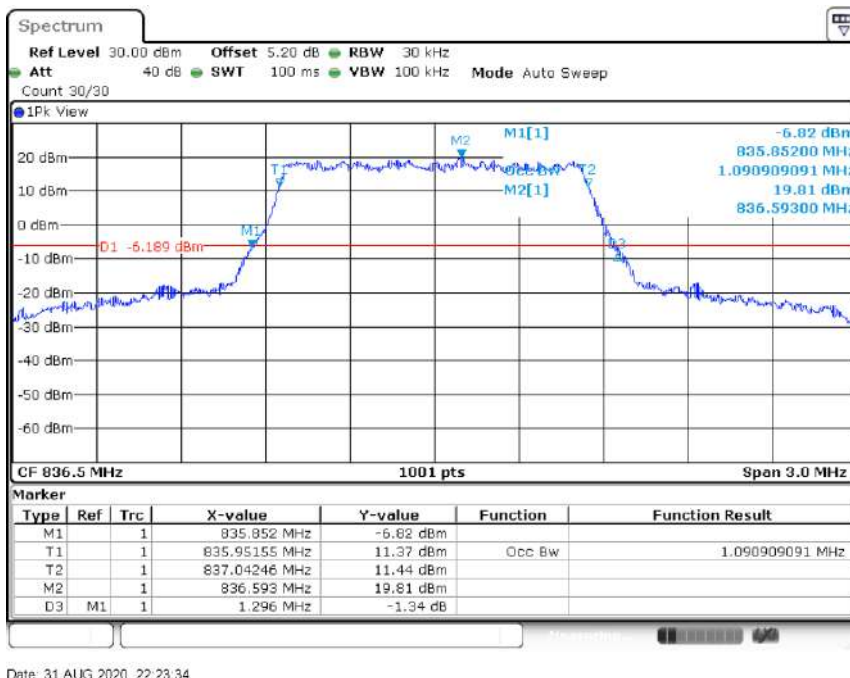


4.2. Test Plots

Band5-1.4MHz-QPSK-20407-6RB#0-1.094



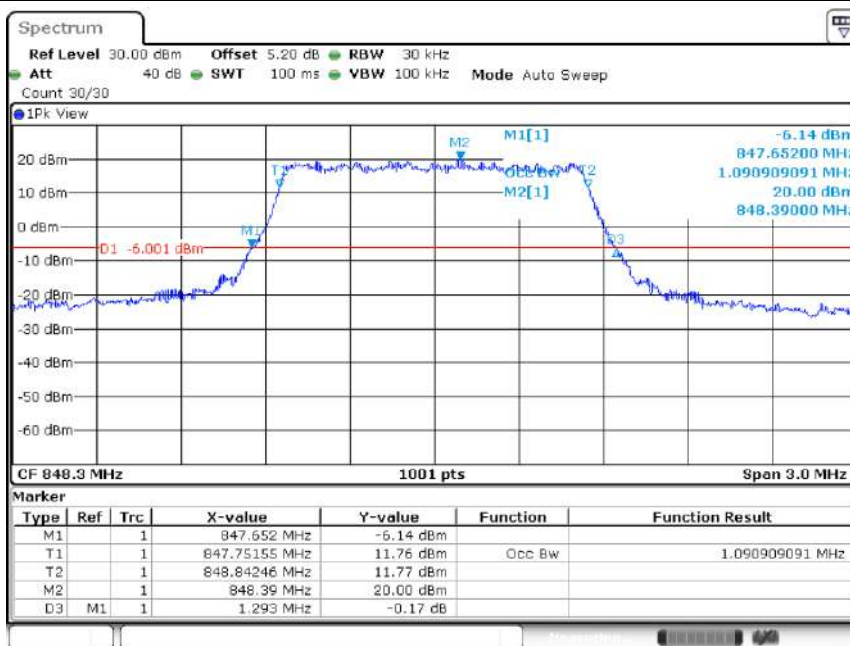
Band5-1.4MHz-QPSK-20525-6RB#0-1.091



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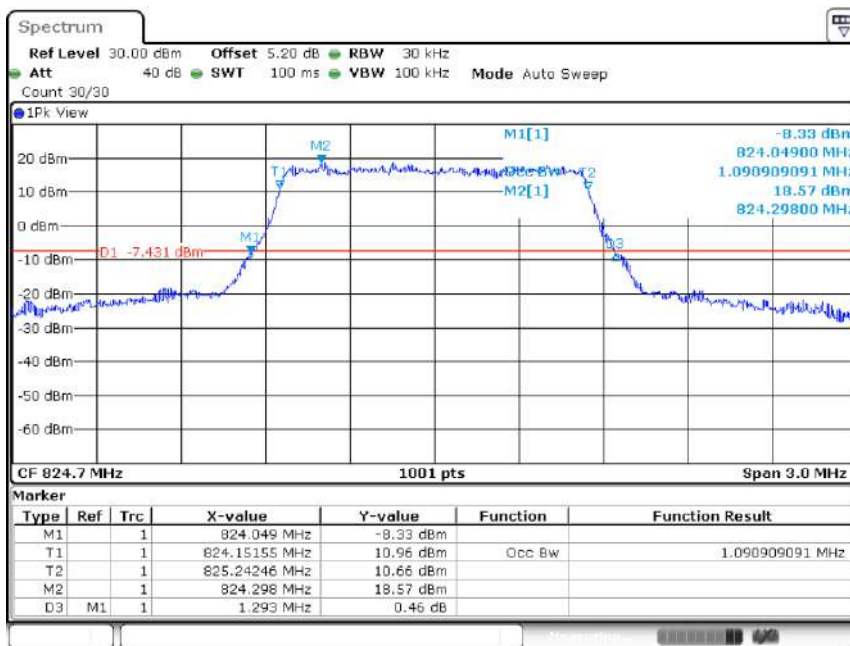
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Band5-1.4MHz-QPSK-20643-6RB#0-1.091



Date: 31 AUG 2020 22:24:00

Band5-1.4MHz-16QAM-20407-6RB#0-1.091



Date: 31 AUG 2020 22:23:21



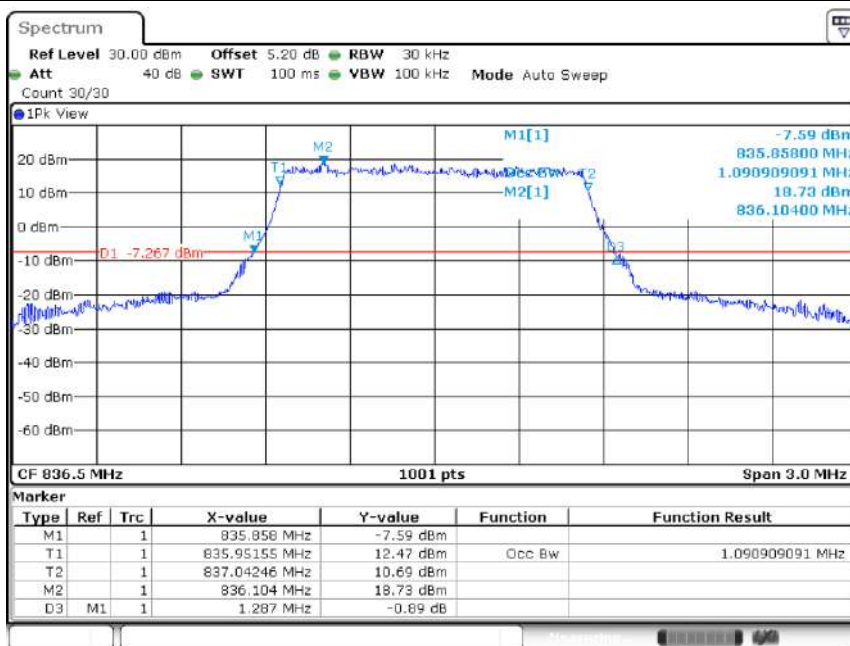
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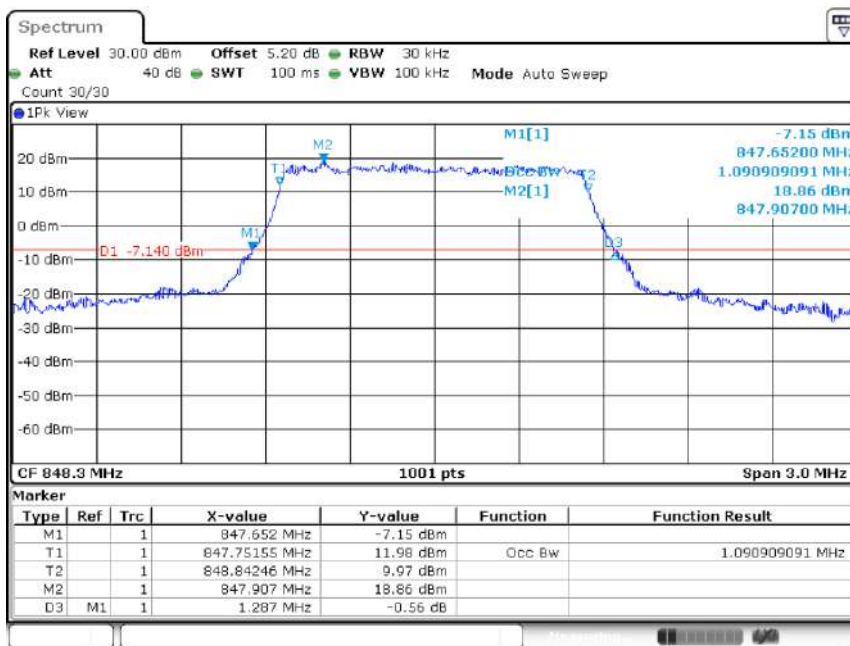
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Band5-1.4MHz-16QAM-20525-6RB#0-1.091



Date: 31 AUG 2020 22:23:47

Band5-1.4MHz-16QAM-20643-6RB#0-1.091

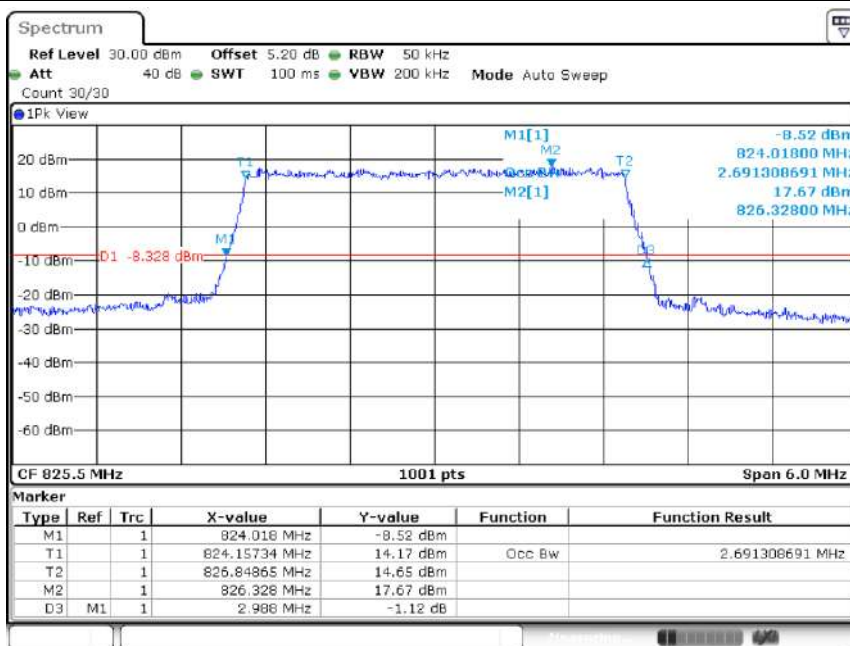


Date: 31 AUG 2020 22:24:13



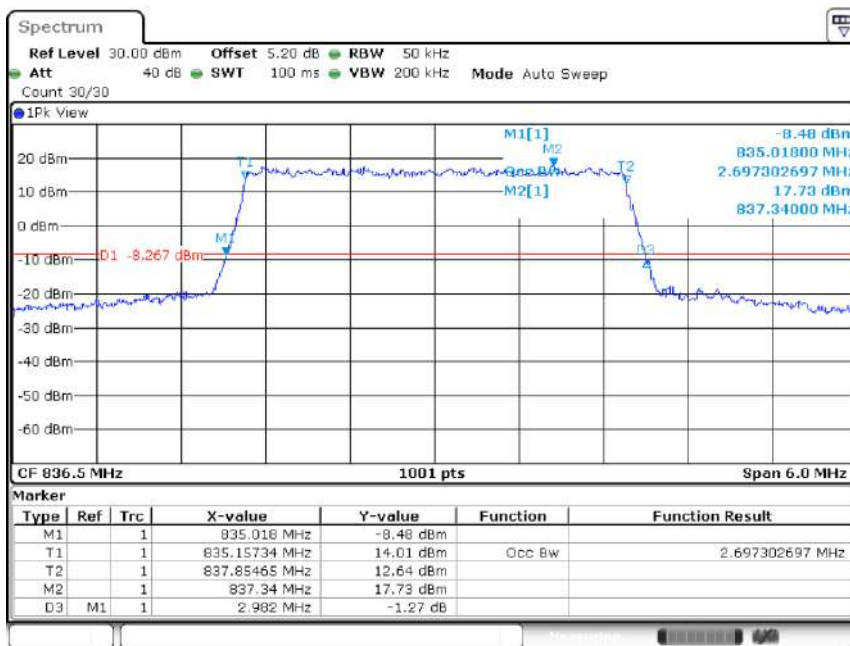
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Band5-3MHz-QPSK-20415-15RB#0-2.691



Date: 31 AUG 2020 22:24:30

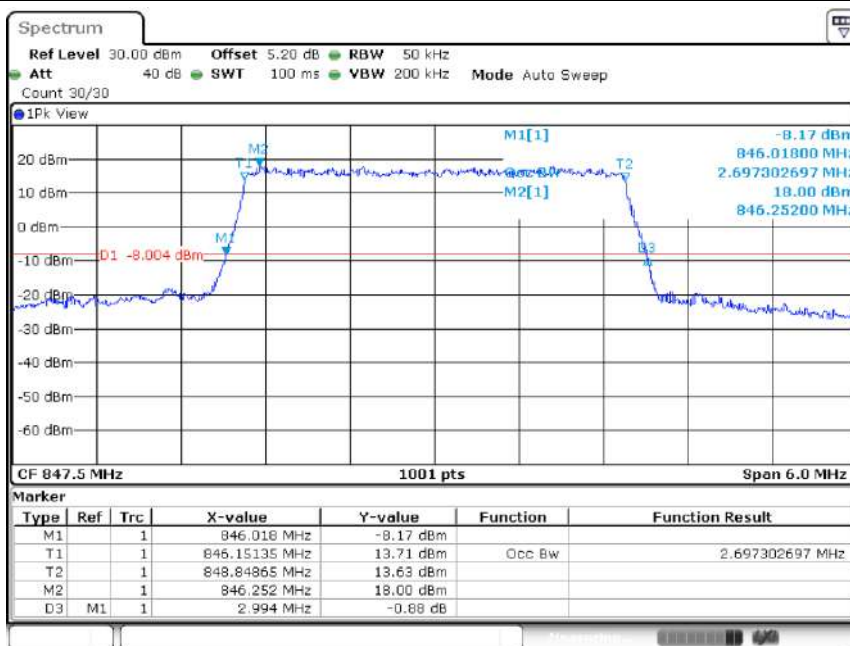
Band5-3MHz-QPSK-20525-15RB#0-2.697



Date: 31 AUG 2020 22:24:56

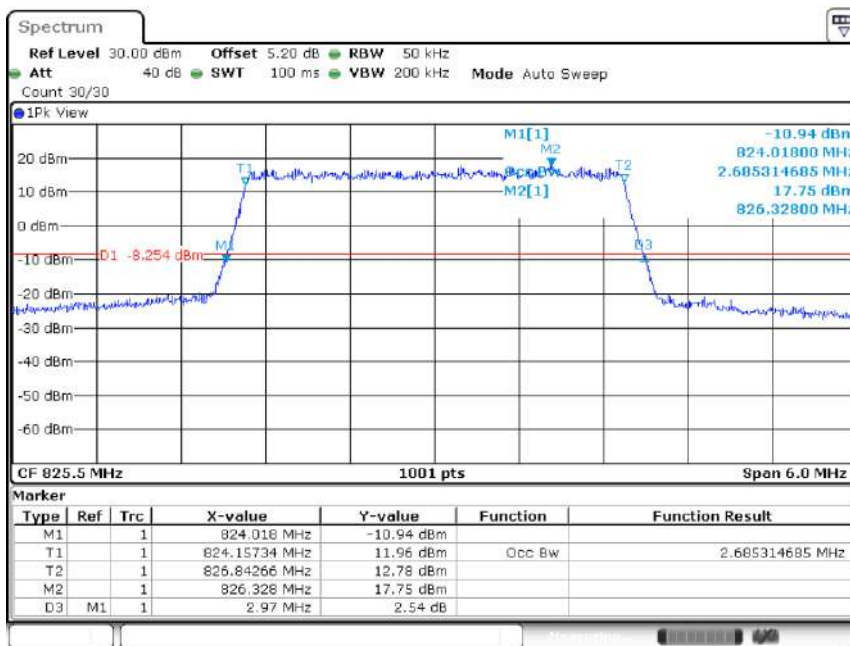


Band5-3MHz-QPSK-20635-15RB#0-2.697



Date: 31 AUG 2020 22:25:22

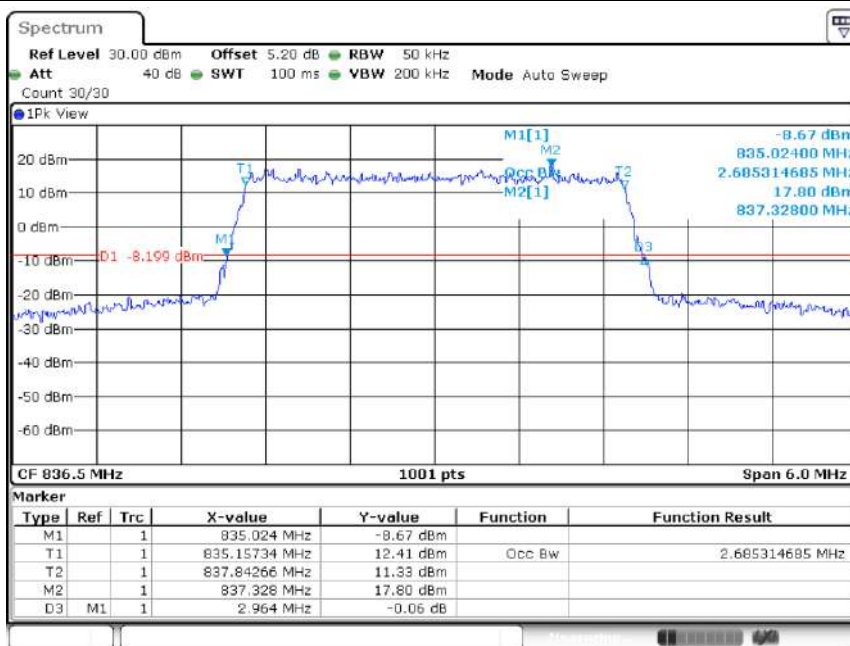
Band5-3MHz-16QAM-20415-15RB#0-2.685



Date: 31 AUG 2020 22:24:43

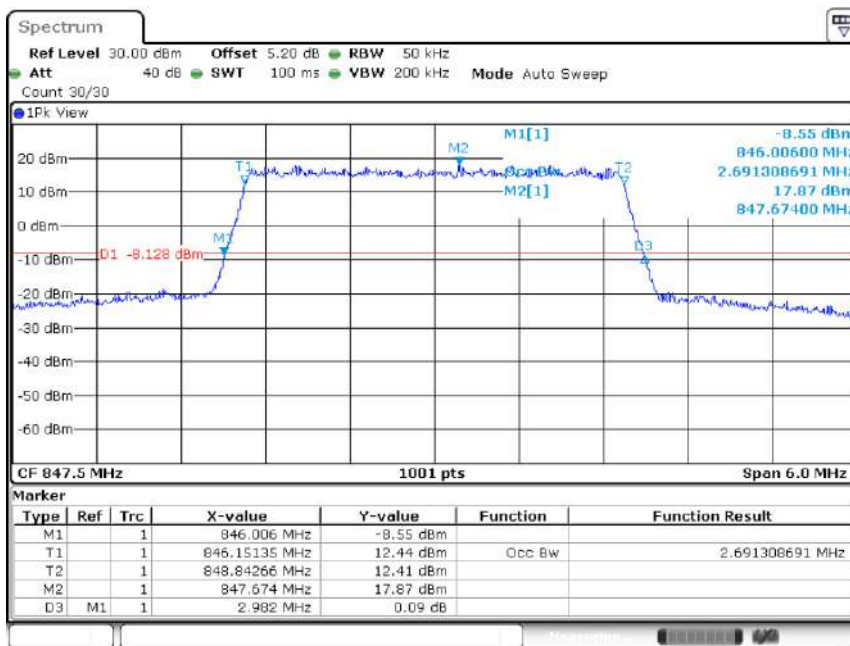


Band5-3MHz-16QAM-20525-15RB#0-2.685



Date: 31 AUG 2020 22:25:09

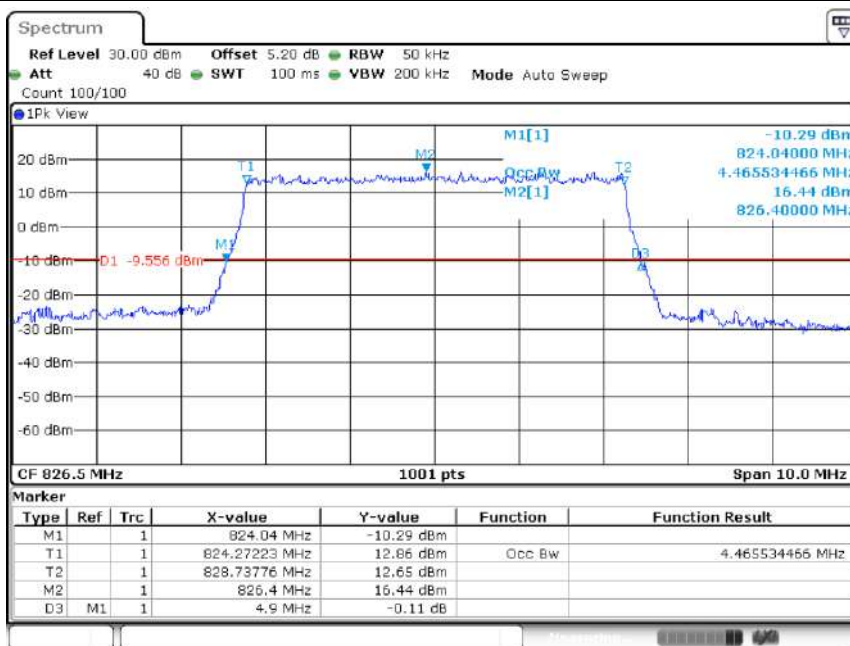
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Date: 31 AUG 2020 22:25:34

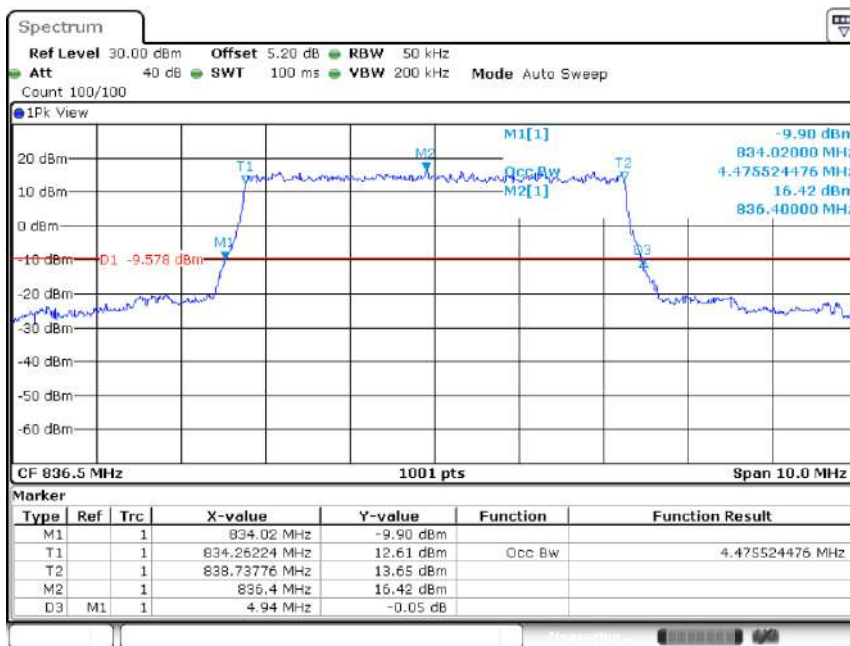


Band5-5MHz-QPSK-20425-25RB#0-4.466



Date: 31 AUG 2020 22:25:59

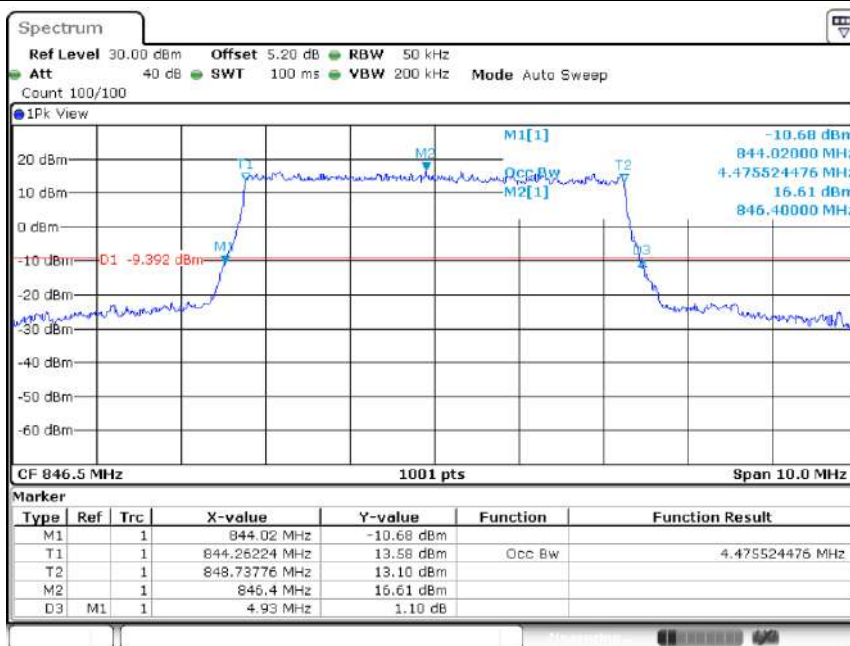
Band5-5MHz-QPSK-20525-25RB#0-4.476



Date: 31 AUG 2020 22:26:38

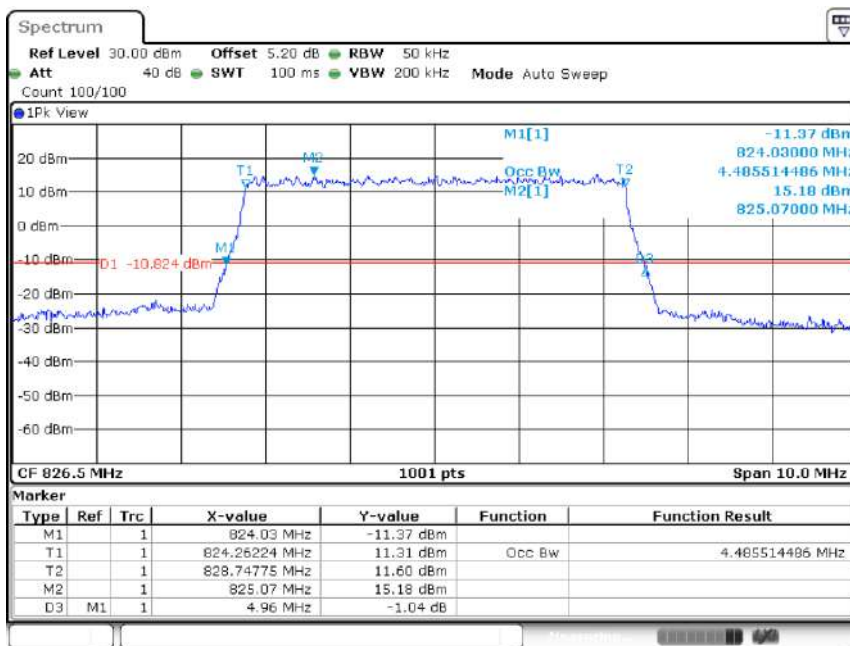


Band5-5MHz-QPSK-20625-25RB#0-4.476



Date: 31 AUG 2020 22:27:18

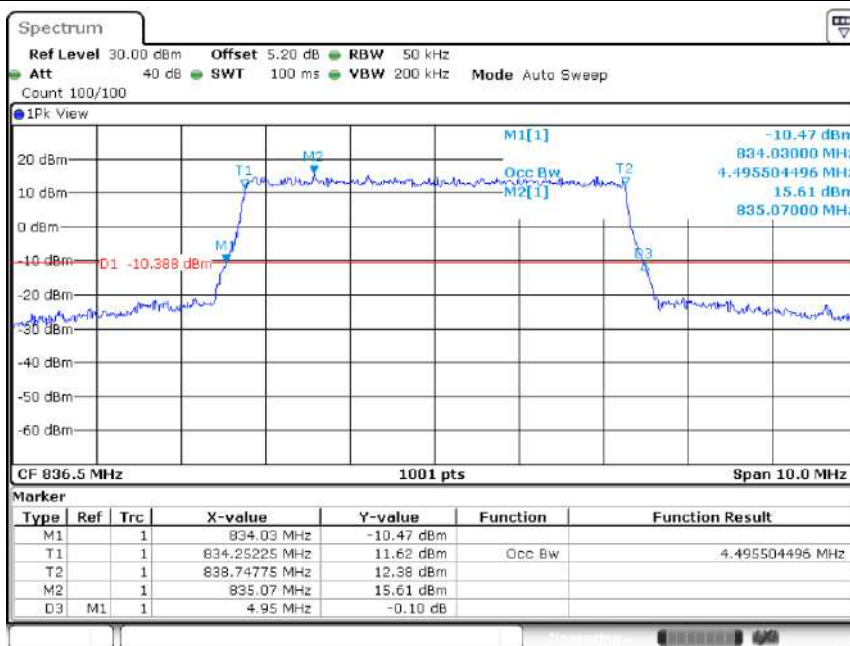
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Date: 31 AUG 2020 22:26:19

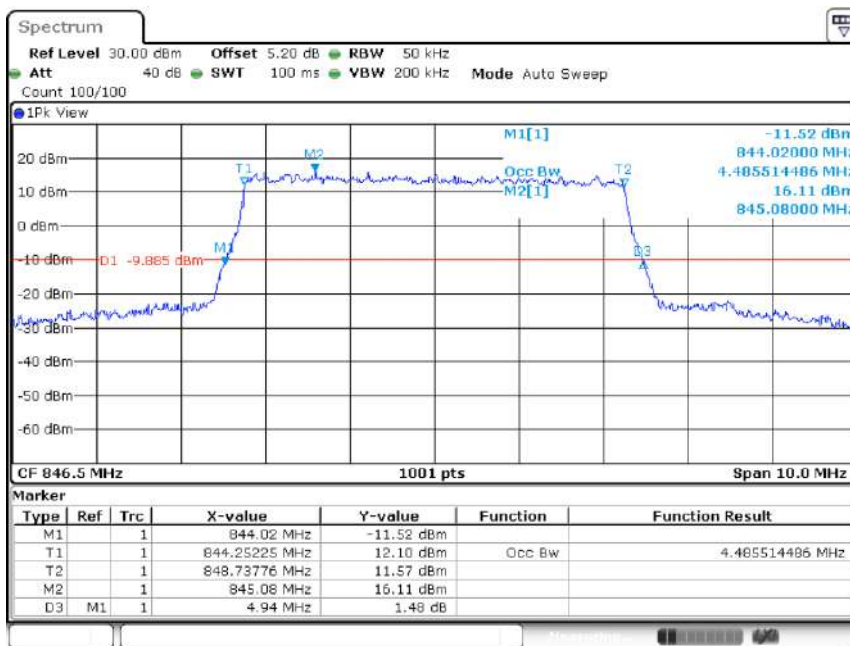


Band5-5MHz-16QAM-20525-25RB#0-4.496



Date: 31 AUG 2020 22:26:58

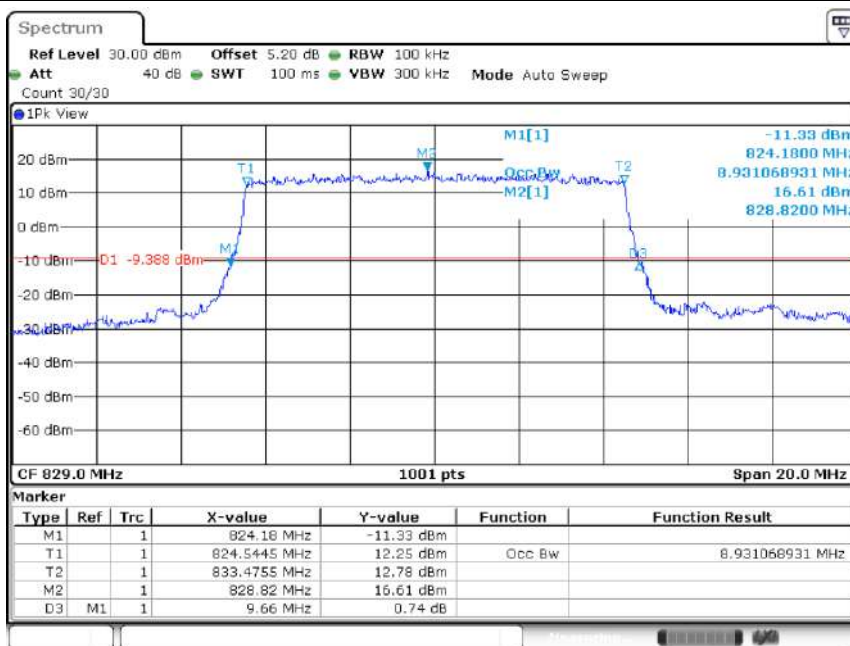
Band5-5MHz-16QAM-20625-25RB#0-4.486



Date: 31 AUG 2020 22:27:38

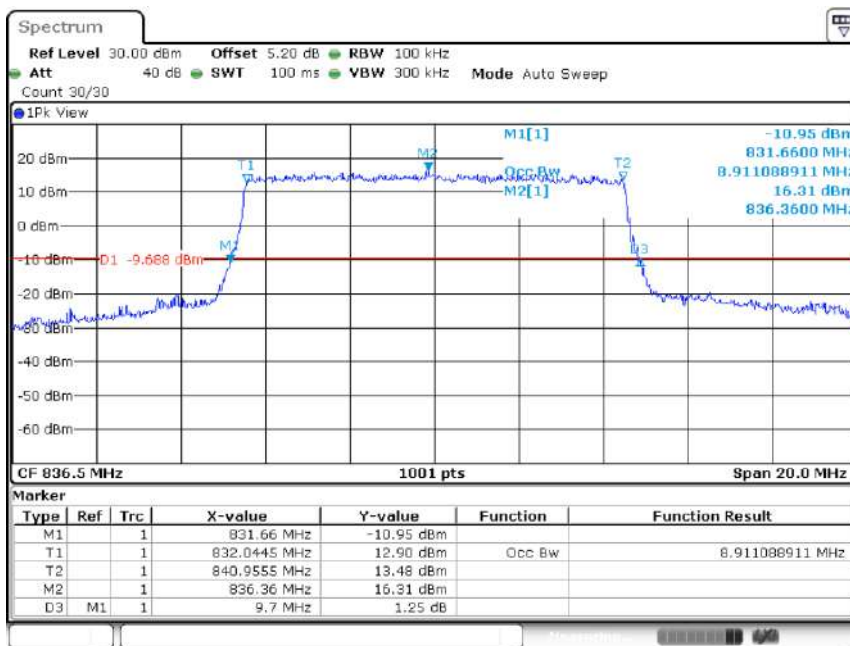


Band5-10MHz-QPSK-20450-50RB#0-8.931



Date: 31 AUG 2020 22:27:55

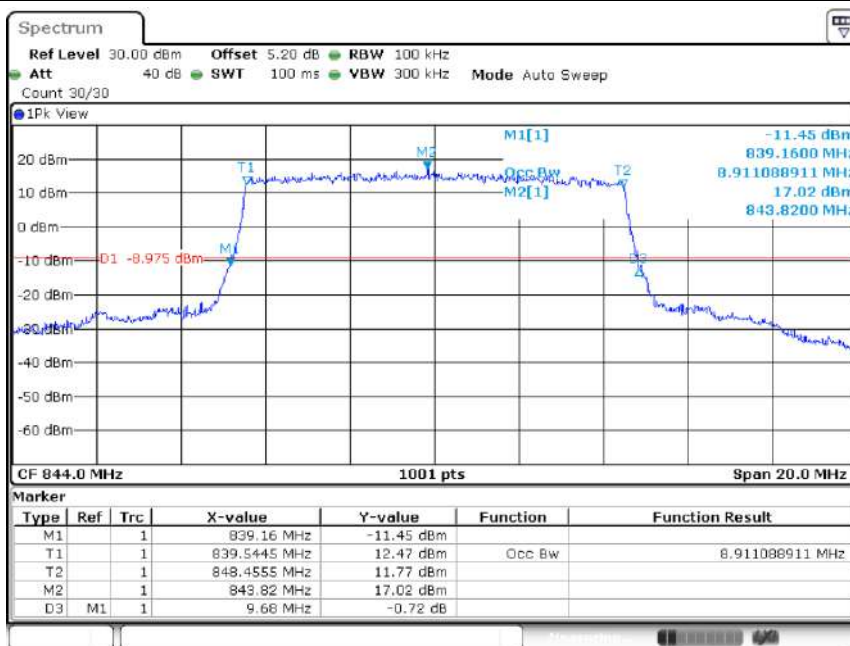
Band5-10MHz-QPSK-20525-50RB#0-8.911



Date: 31 AUG 2020 22:28:21

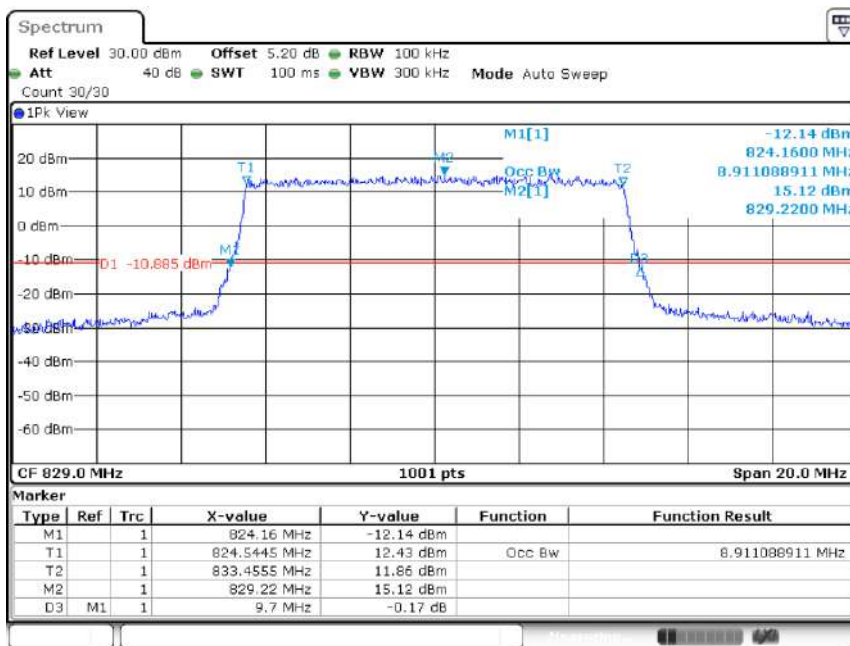


Band5-10MHz-QPSK-20600-50RB#0-8.911



Date: 31 AUG 2020 22:28:46

Band5-10MHz-16QAM-20450-50RB#0-8.911



Date: 31 AUG 2020 22:28:08



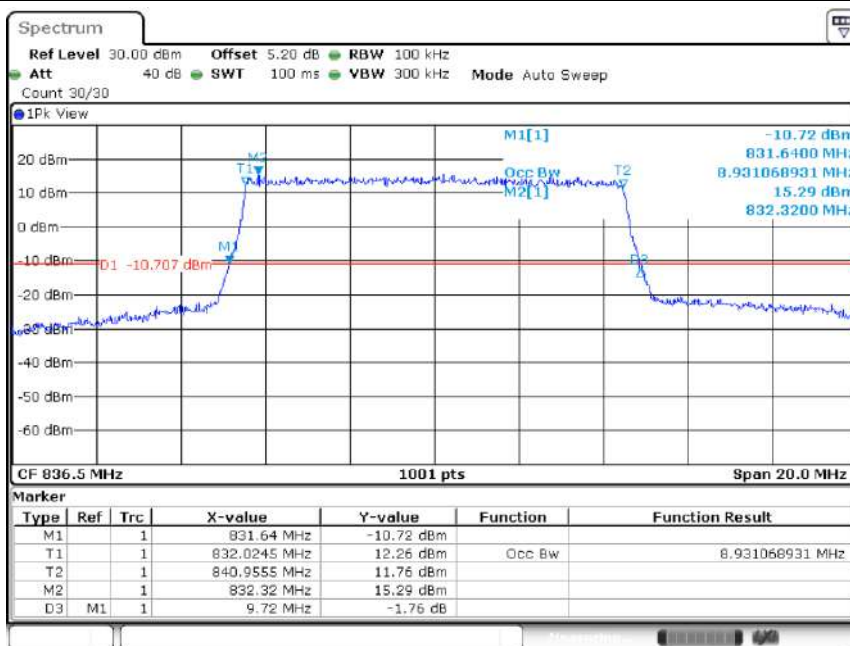
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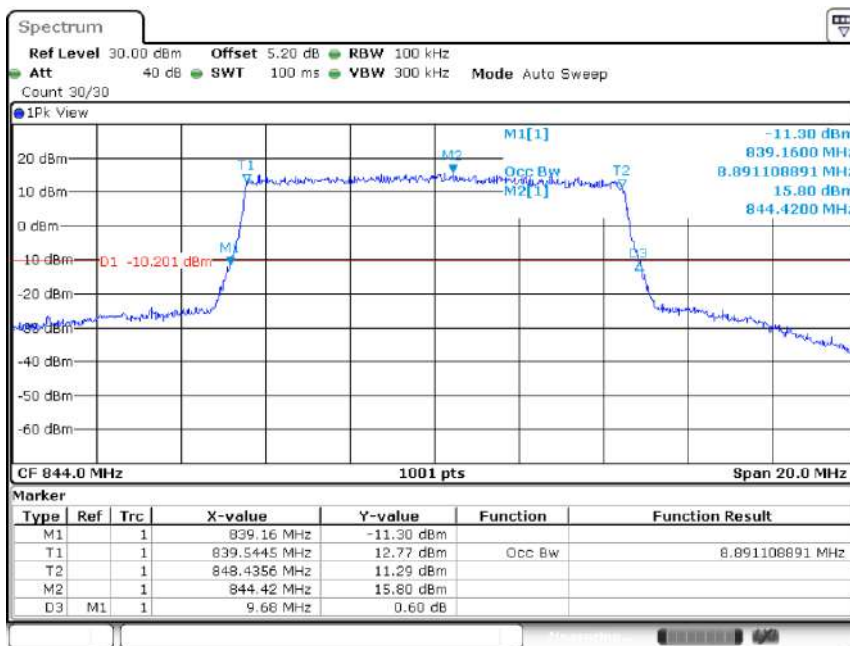
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Band5-10MHz-16QAM-20525-50RB#0-8.931



Date: 31 AUG 2020 22:28:33

Band5-10MHz-16QAM-20600-50RB#0-8.891



Date: 31 AUG 2020 22:28:59





5. Band Edge Compliance

5.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	-19.70	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	-25.17	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	-18.26	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	-24.71	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	-21.47	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	-24.99	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	-20.65	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	-25.07	PASS
Band5	3MHz	QPSK	20415	1RB#0	-19.28	PASS
Band5	3MHz	QPSK	20415	15RB#0	-26.83	PASS
Band5	3MHz	QPSK	20635	1RB#14	-17.31	PASS
Band5	3MHz	QPSK	20635	15RB#0	-26.18	PASS
Band5	3MHz	16QAM	20415	1RB#0	-20.75	PASS
Band5	3MHz	16QAM	20415	15RB#0	-27.33	PASS
Band5	3MHz	16QAM	20635	1RB#14	-19.38	PASS
Band5	3MHz	16QAM	20635	15RB#0	-26.80	PASS
Band5	5MHz	QPSK	20425	1RB#0	-20.58	PASS
Band5	5MHz	QPSK	20425	25RB#0	-27.22	PASS
Band5	5MHz	QPSK	20625	1RB#24	-20.41	PASS
Band5	5MHz	QPSK	20625	25RB#0	-26.95	PASS
Band5	5MHz	16QAM	20425	1RB#0	-21.69	PASS
Band5	5MHz	16QAM	20425	25RB#0	-27.68	PASS
Band5	5MHz	16QAM	20625	1RB#24	-22.04	PASS
Band5	5MHz	16QAM	20625	25RB#0	-27.46	PASS
Band5	10MHz	QPSK	20450	1RB#0	-31.11	PASS
Band5	10MHz	QPSK	20450	50RB#0	-28.88	PASS
Band5	10MHz	QPSK	20600	1RB#49	-30.73	PASS
Band5	10MHz	QPSK	20600	50RB#0	-29.20	PASS
Band5	10MHz	16QAM	20450	1RB#0	-31.66	PASS
Band5	10MHz	16QAM	20450	50RB#0	-30.82	PASS
Band5	10MHz	16QAM	20600	1RB#49	-32.15	PASS
Band5	10MHz	16QAM	20600	50RB#0	-30.42	PASS



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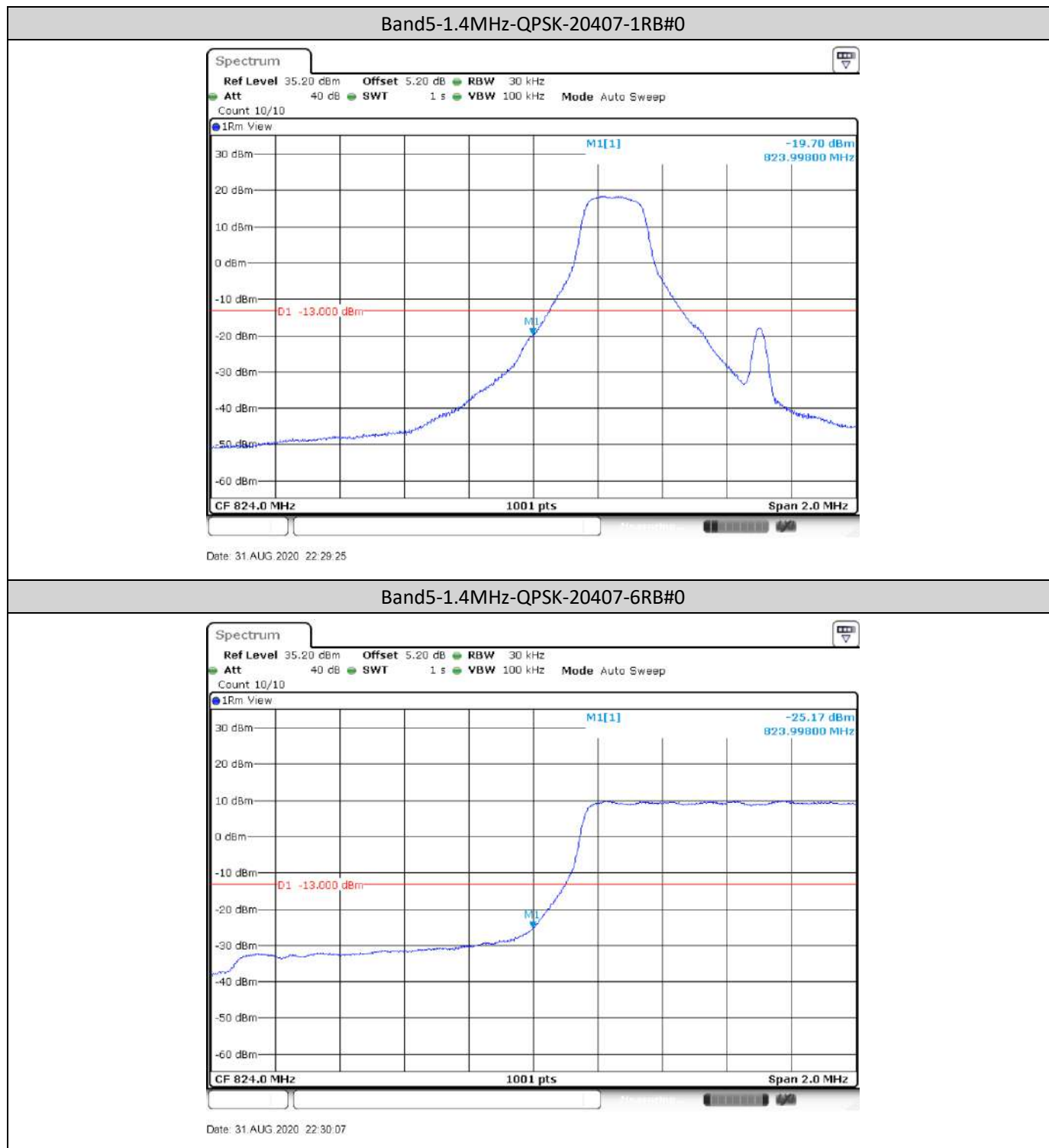
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5.2. Test Plots



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Band5-1.4MHz-QPSK-20643-1RB#5



Date: 31 AUG 2020 22:30:52

Band5-1.4MHz-QPSK-20643-6RB#0



Date: 31 AUG 2020 22:31:33



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Band5-1.4MHz-16QAM-20407-1RB#0



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Band5-1.4MHz-16QAM-20407-6RB#0



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Band5-1.4MHz-16QAM-20643-1RB#5



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Band5-3MHz-QPSK-20415-1RB#0



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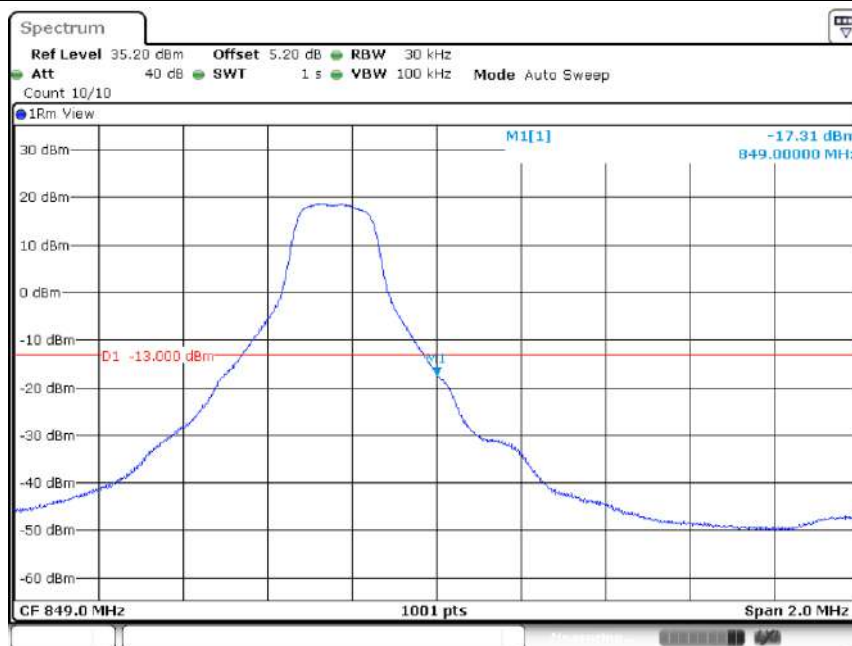
Band5-3MHz-QPSK-20415-15RB#0



Date: 31 AUG 2020 22:33:00



Band5-3MHz-QPSK-20635-1RB#14



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Band5-3MHz-QPSK-20635-15RB#0



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Band5-3MHz-16QAM-20415-1RB#0



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Band5-3MHz-16QAM-20415-15RB#0



Date: 31 AUG 2020 22:33:21

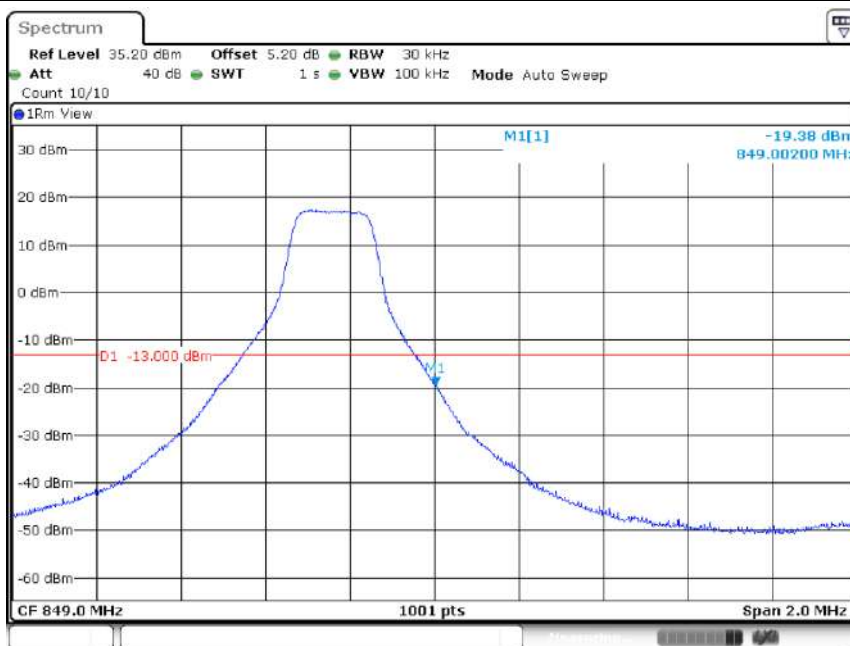


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Band5-3MHz-16QAM-20635-1RB#14



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Band5-5MHz-QPSK-20425-1RB#0



Date: 31 AUG 2020 22:35:13

Band5-5MHz-QPSK-20425-25RB#0



Date: 31 AUG 2020 22:35:54



Band5-5MHz-QPSK-20625-1RB#24



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Band5-5MHz-QPSK-20625-25RB#0



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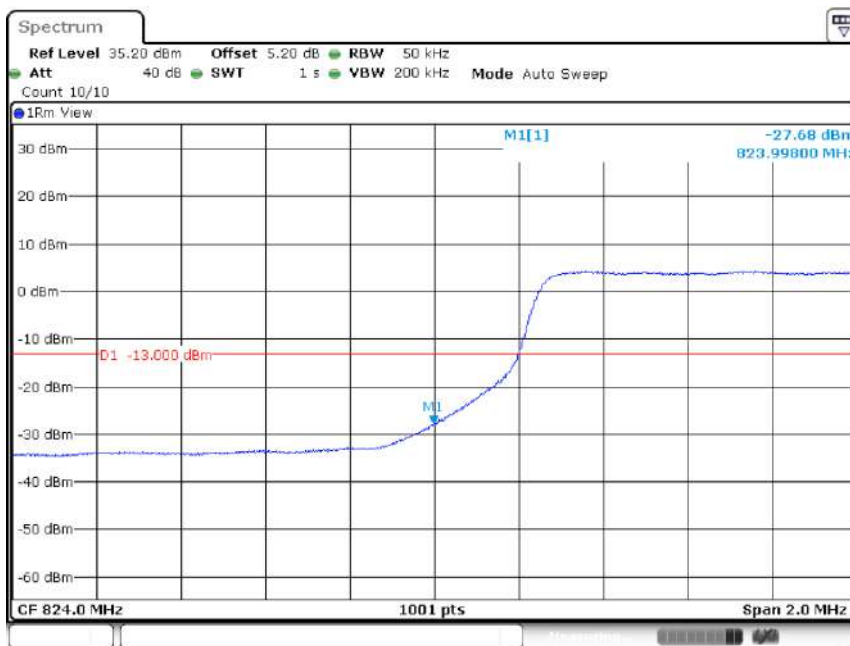
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Band5-5MHz-16QAM-20425-25RB#0



Date: 31 AUG 2020 22:36:14





Band5-5MHz-16QAM-20625-1RB#24



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Band5-5MHz-16QAM-20625-25RB#0



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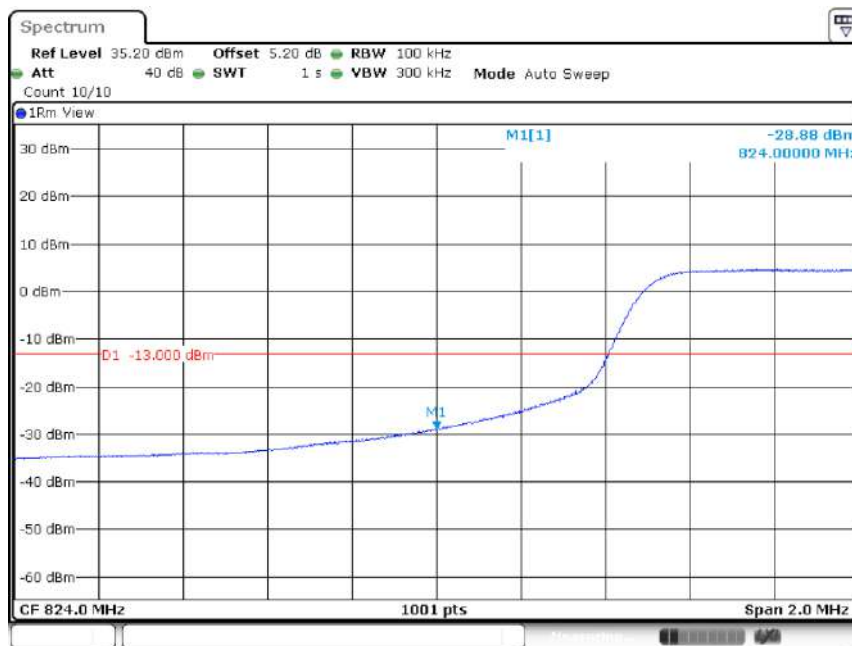
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Band5-10MHz-QPSK-20450-1RB#0



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Band5-10MHz-QPSK-20600-1RB#49



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Band5-10MHz-QPSK-20600-50RB#0



Date: 31 AUG 2020 22:40:13



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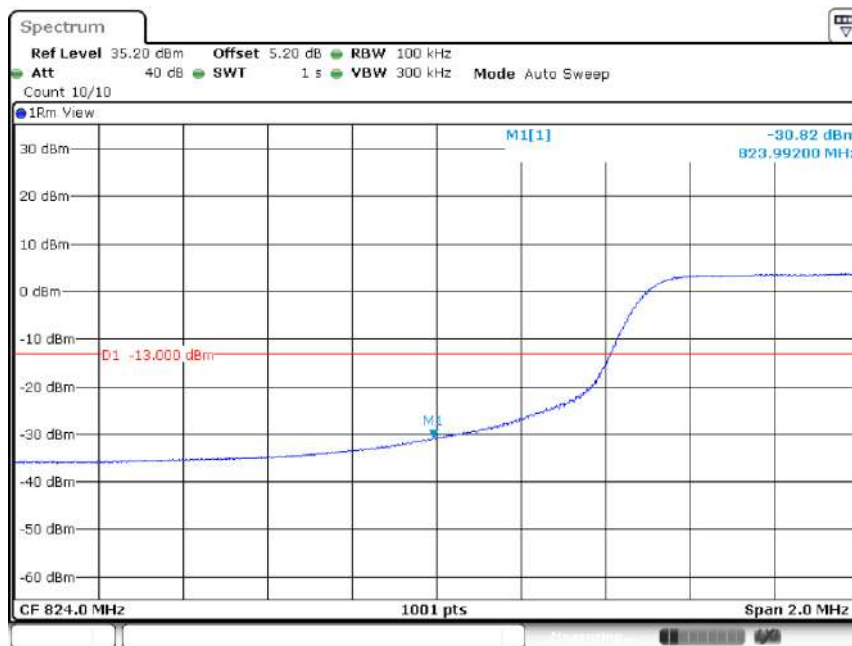
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Band5-10MHz-16QAM-20450-1RB#0



Date: 31 AUG 2020 22:38:27

Band5-10MHz-16QAM-20450-50RB#0



Date: 31 AUG 2020 22:39:08



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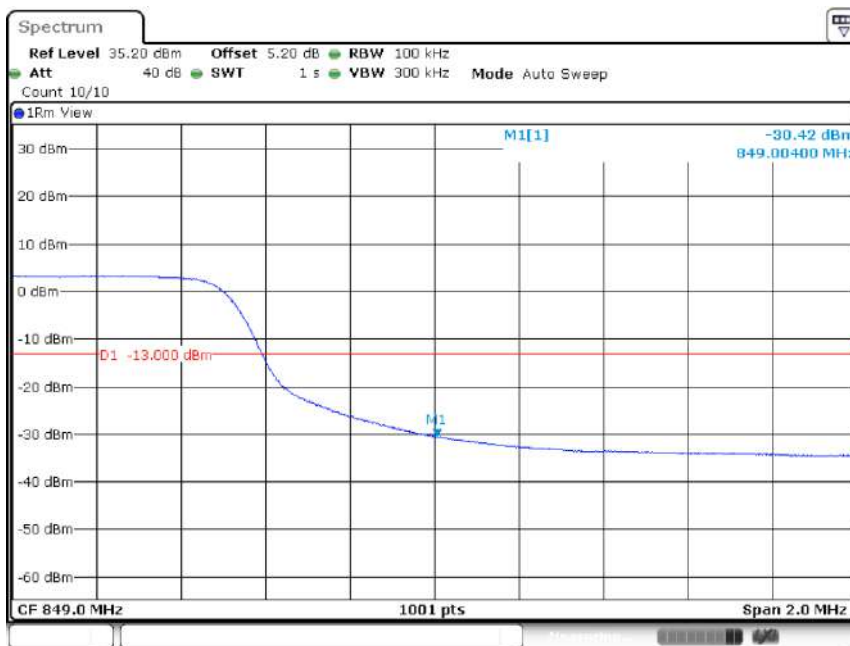
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Band5-10MHz-16QAM-20600-1RB#49



Date: 31 AUG 2020 22:39:53

Band5-10MHz-16QAM-20600-50RB#0



Date: 31 AUG 2020 22:40:34



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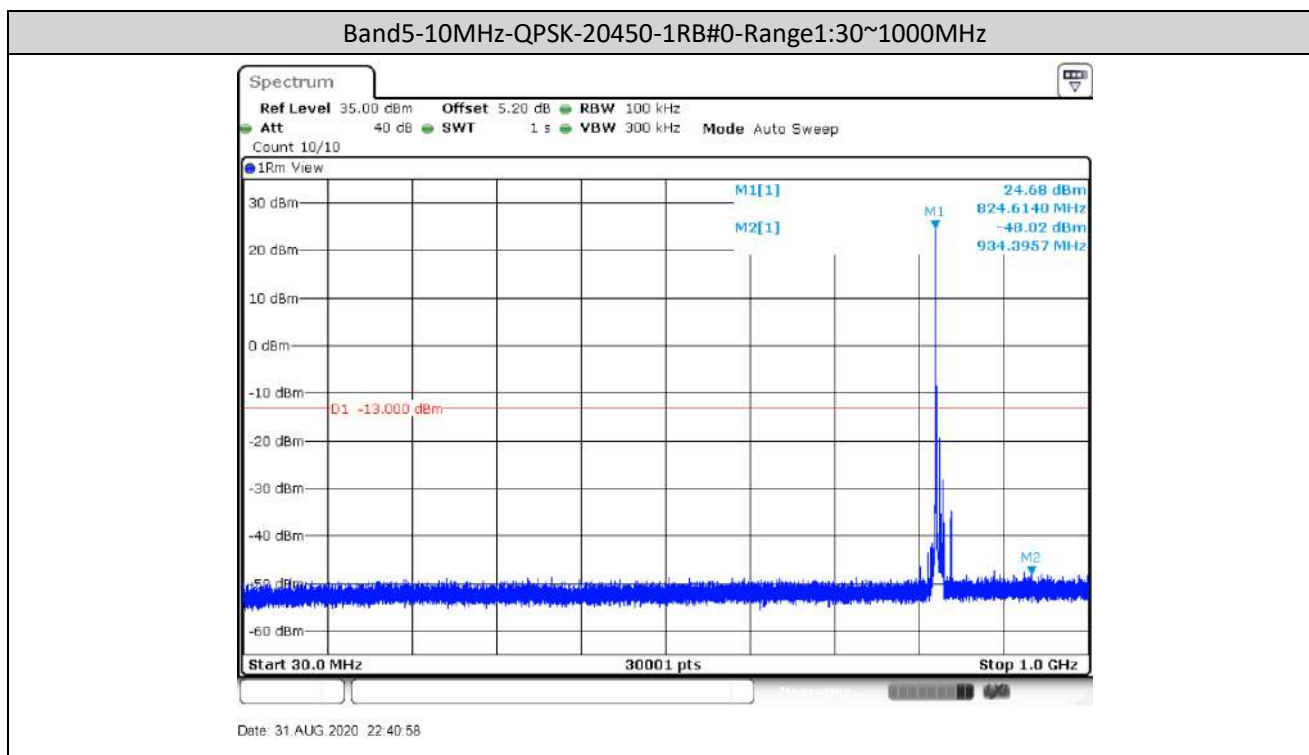
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6. Spurious Emission at Antenna Terminal

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.

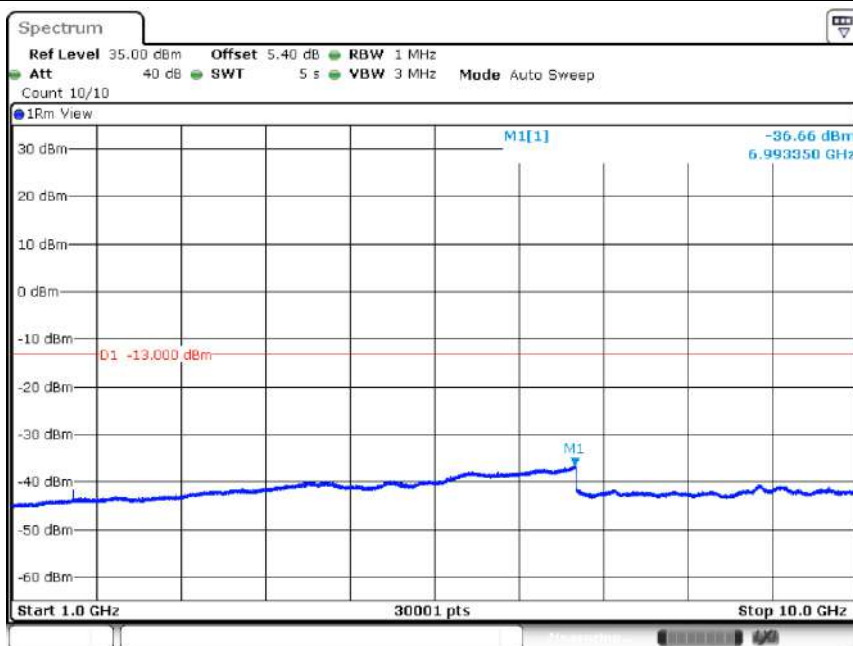
6.1. Test Plots



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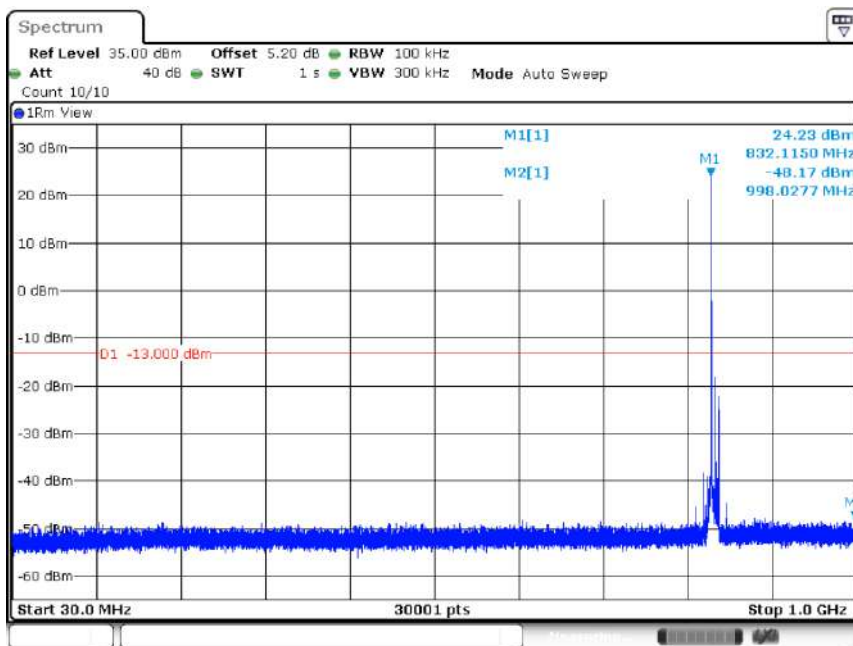
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Band5-10MHz-QPSK-20450-1RB#0-Range1:1000~10000MHz



Date: 1 SEP.2020 21:44:08

Band5-10MHz-QPSK-20525-1RB#0-Range1:30~1000MHz



Date: 31 AUG 2020 22:43:52

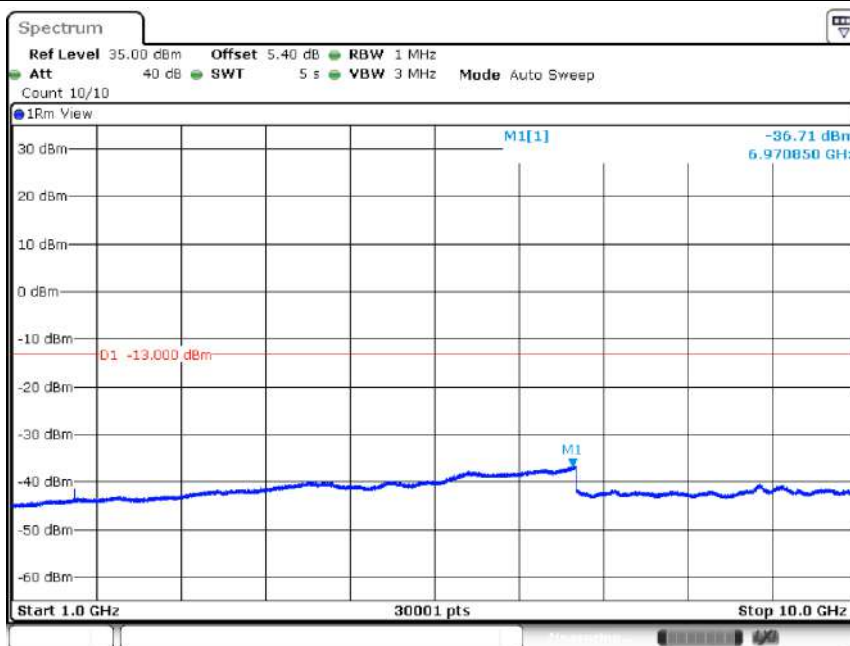
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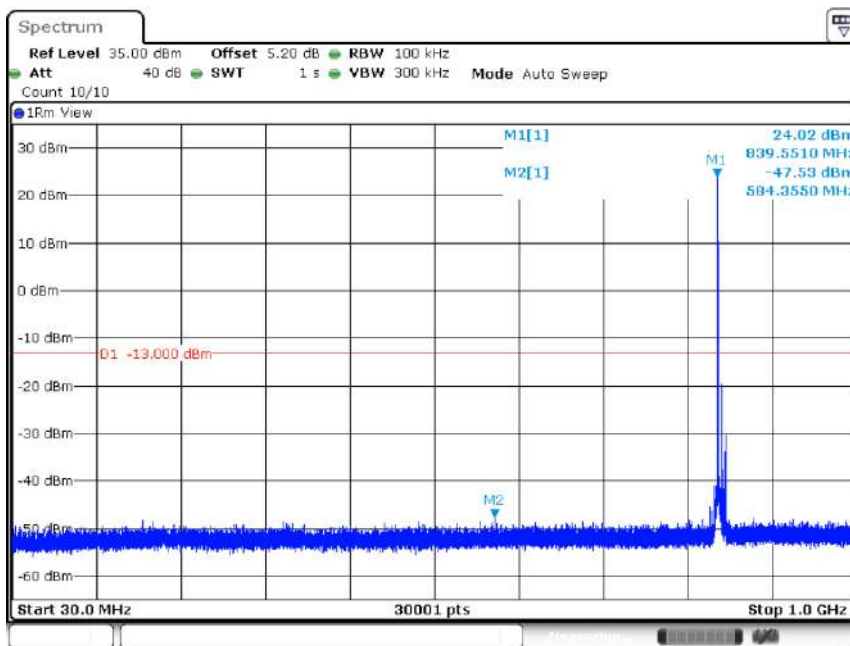
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Band5-10MHz-QPSK-20525-1RB#0-Range1:1000~10000MHz



Date: 1 SEP.2020 21:46:30

Band5-10MHz-QPSK-20600-1RB#0-Range1:30~1000MHz



Date: 31 AUG 2020 22:46:46

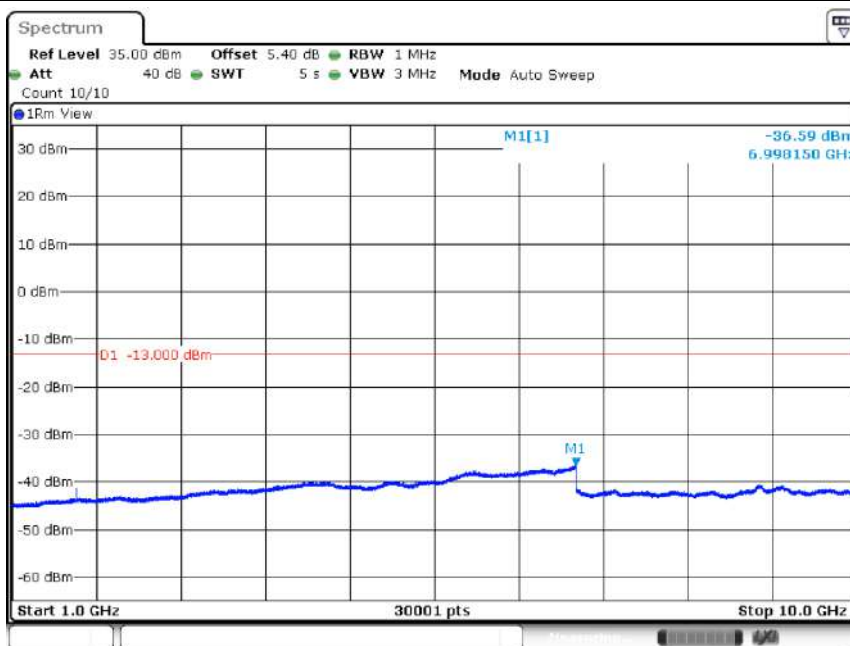


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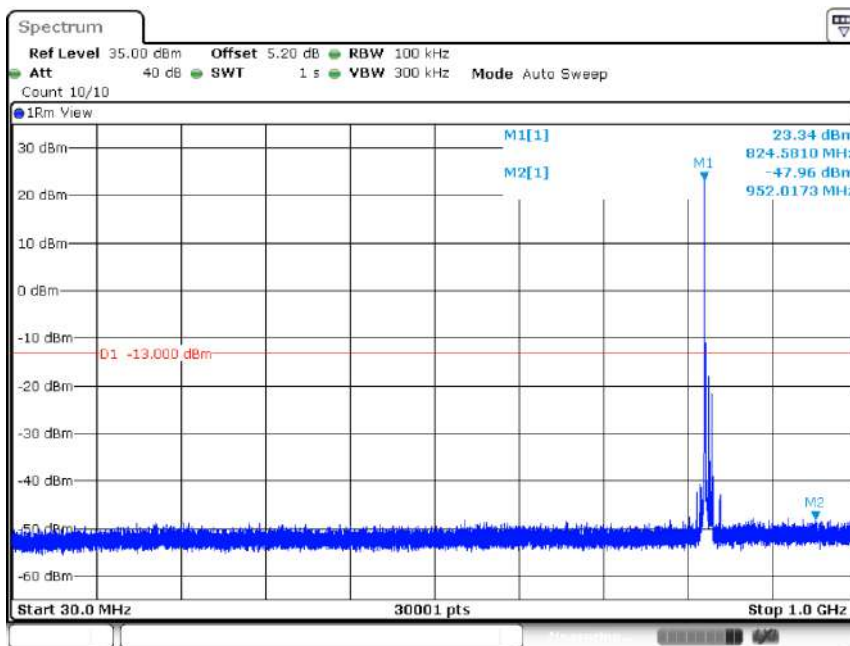
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Band5-10MHz-QPSK-20600-1RB#0-Range1:1000~10000MHz



Date: 1 SEP.2020 21:48:51

Band5-10MHz-16QAM-20450-1RB#0-Range1:30~1000MHz



Date: 31 AUG 2020 22:42:25

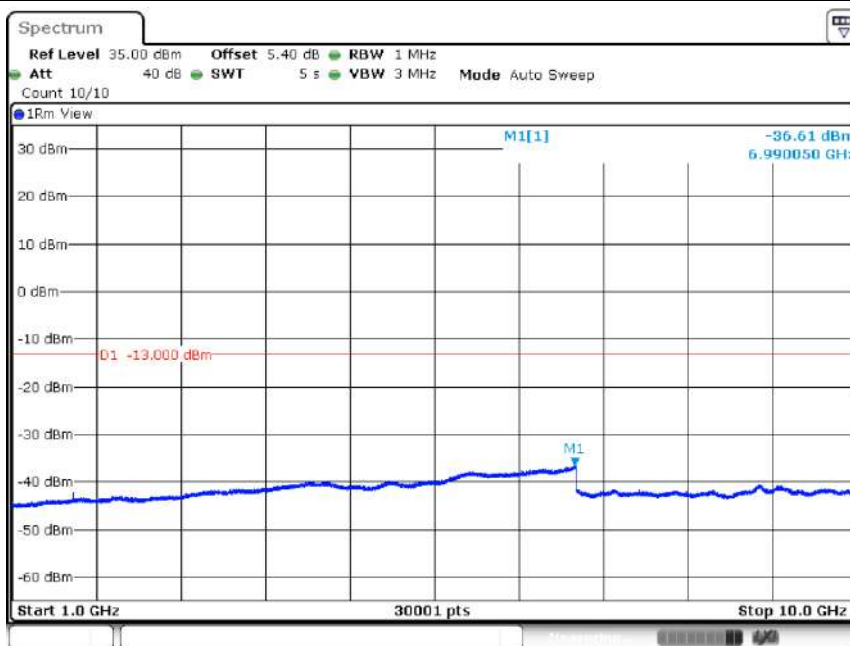
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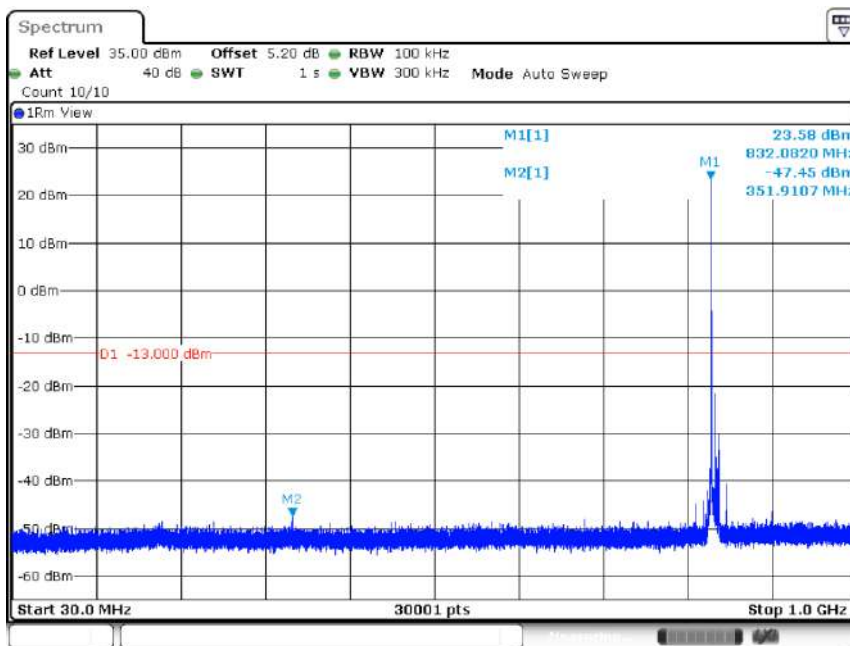
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Band5-10MHz-16QAM-20450-1RB#0-Range1:1000~10000MHz



Date: 1 SEP.2020 21:45:19

Band5-10MHz-16QAM-20525-1RB#0-Range1:30~1000MHz



Date: 31 AUG 2020 22:45:19



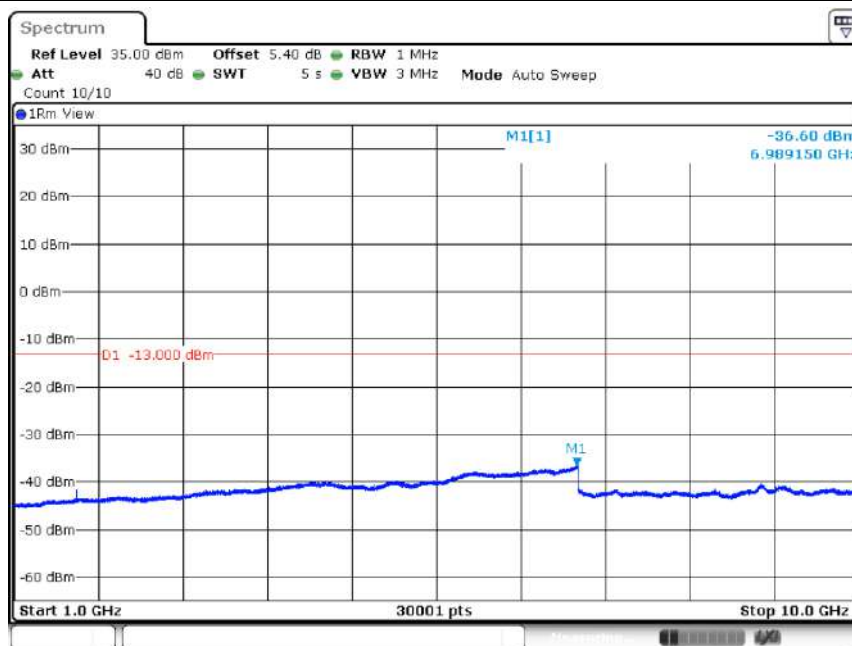
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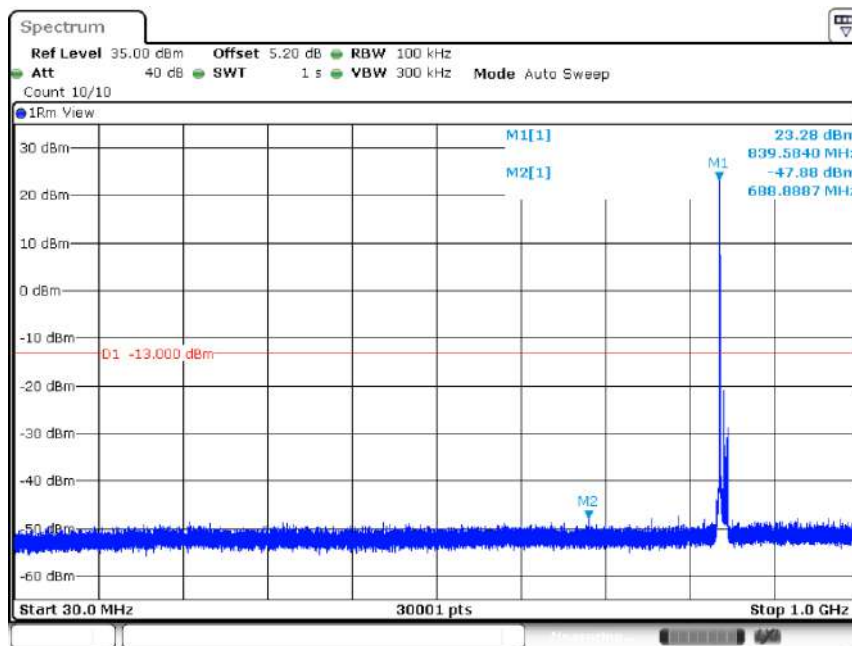
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Band5-10MHz-16QAM-20525-1RB#0-Range1:1000~10000MHz



Date: 1 SEP. 2020 21:47:40

Band5-10MHz-16QAM-20600-1RB#0-Range1:30~1000MHz



Date: 1 SEP. 2020 08:37:52

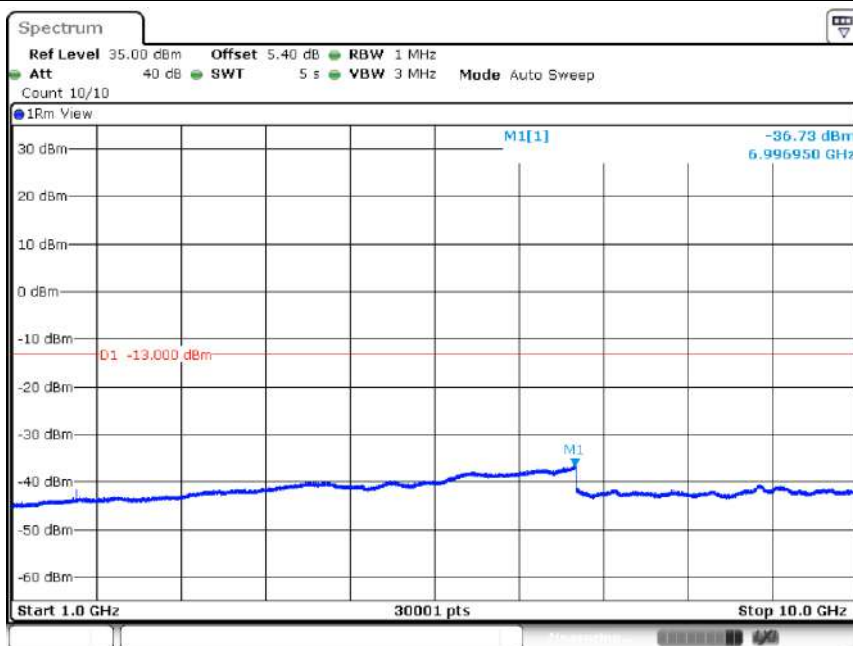


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Band5-10MHz-16QAM-20600-1RB#0-Range1:1000~10000MHz



Date: 1 SEP.2020 21:50:02



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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 10MHz

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
112.8906	-62.77	-13.00	49.77	185	180	Vertical
1649.3299	-44.62	-13.00	31.62	196	246	Vertical
2473.8948	-43.42	-13.00	30.42	321	148	Vertical
3298.4433	-53.30	-13.00	40.30	252	214	Vertical
4122.8374	-54.72	-13.00	41.72	161	214	Vertical
9889.1630	-51.85	-13.00	38.85	185	248	Vertical
41.1556	-62.96	-13.00	49.96	174	334	Horizontal
1648.9298	-42.70	-13.00	29.70	185	18	Horizontal
2473.8948	-36.50	-13.00	23.50	169	146	Horizontal
3298.2099	-52.23	-13.00	39.23	321	270	Horizontal
4122.8374	-52.56	-13.00	39.56	251	46	Horizontal
9328.4443	-53.06	-13.00	40.06	219	334	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
114.5397	-63.12	-13.00	50.12	258	139	Vertical
1664.1328	-43.93	-13.00	30.93	296	245	Vertical
2496.2993	-40.47	-13.00	27.47	184	148	Vertical
3328.3109	-55.64	-13.00	42.64	215	73	Vertical
4160.4053	-53.60	-13.00	40.60	251	40	Vertical
9349.2116	-52.60	-13.00	39.60	164	73	Vertical
45.7633	-62.78	-13.00	49.78	174	245	Horizontal
1664.1328	-41.08	-13.00	28.08	185	78	Horizontal
2496.2993	-36.82	-13.00	23.82	196	137	Horizontal
3328.3109	-53.39	-13.00	40.39	231	245	Horizontal
4160.6387	-53.75	-13.00	40.75	262	245	Horizontal
5824.8275	-54.72	-13.00	41.72	226	43	Horizontal



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7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
109.0105	-61.99	-13.00	48.99	258	335	Vertical
1679.3359	-41.18	-13.00	28.18	161	237	Vertical
2518.7037	-40.43	-13.00	27.43	152	144	Vertical
4197.7399	-53.75	-13.00	40.75	321	269	Vertical
5877.0959	-55.54	-13.00	42.54	262	205	Vertical
9814.4938	-52.34	-13.00	39.34	291	126	Vertical
42.8531	-62.12	-13.00	49.12	174	260	Horizontal
1678.9358	-38.76	-13.00	25.76	185	9	Horizontal
2518.7037	-38.88	-13.00	25.88	196	323	Horizontal
3358.1786	-54.02	-13.00	41.02	231	227	Horizontal
4197.9733	-52.21	-13.00	39.21	256	227	Horizontal
5877.3292	-54.01	-13.00	41.01	154	296	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	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	VL	NT	-0.20	-0.000241	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	0.30	0.000362	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	-0.40	-0.000483	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-1.80	-0.002152	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-2.00	-0.002391	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-1.60	-0.001913	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	-0.80	-0.000948	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	-0.10	-0.000118	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	0.10	0.000118	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VL	NT	-0.70	-0.000844	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VN	NT	-0.10	-0.000121	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VH	NT	-1.50	-0.001809	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VL	NT	-1.70	-0.002032	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VN	NT	-0.90	-0.001076	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VH	NT	-0.90	-0.001076	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VL	NT	-1.50	-0.001777	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VN	NT	0.70	0.000829	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VH	NT	1.00	0.001185	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	NV	-30	-0.50	-0.000603	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	-1.00	-0.001206	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-10	-0.30	-0.000362	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	0.00	0.000000	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	-1.10	-0.001327	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	-0.50	-0.000603	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	0.00	0.000000	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	0.10	0.000121	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	-0.70	-0.000844	±2.5	PASS



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SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057
中国·深圳·科技园中区M-10栋一号厂房

t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band5	10MHz	QPSK	20525	50RB#0	NV	-30	0.00	0.000000	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-2.10	-0.002510	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	-1.30	-0.001554	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-1.40	-0.001674	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-0.90	-0.001076	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-1.90	-0.002271	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	0.70	0.000837	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-1.00	-0.001195	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-0.90	-0.001076	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	-1.00	-0.001185	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	0.10	0.000118	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-10	-1.50	-0.001777	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	-0.70	-0.000829	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	-0.90	-0.001066	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	-0.60	-0.000711	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	0.90	0.001066	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	-0.30	-0.000355	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	-0.90	-0.001066	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-30	-0.90	-0.001086	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-20	-0.40	-0.000483	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-10	-0.70	-0.000844	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	0	-0.10	-0.000121	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	10	-0.60	-0.000724	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	20	-0.70	-0.000844	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	30	-1.50	-0.001809	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	40	-1.10	-0.001327	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	50	-0.10	-0.000121	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-30	-1.70	-0.002032	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-20	-2.10	-0.002510	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-10	-0.20	-0.000239	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	0	-1.10	-0.001315	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	10	-0.10	-0.000120	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	20	-0.60	-0.000717	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	30	0.40	0.000478	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	40	-0.30	-0.000359	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	50	-0.90	-0.001076	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-30	-0.30	-0.000355	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-20	-0.40	-0.000474	±2.5	PASS



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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band5	10MHz	16QAM	20600	50RB#0	NV	-10	-0.90	-0.001066	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	0	0.40	0.000474	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	10	-0.80	-0.000948	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	20	-0.60	-0.000711	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	30	-0.10	-0.000118	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	40	-1.60	-0.001896	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	50	-0.60	-0.000711	±2.5	PASS

