

Appendix B

E-UTRA Band 5



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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	23.89	21.14	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	24.02	21.27	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.85	21.10	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.99	21.24	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	24.02	21.27	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.96	21.21	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	23.00	20.25	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.85	21.10	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	24.00	21.25	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.86	21.11	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.96	21.21	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	24.02	21.27	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.95	21.20	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	23.04	20.29	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.99	21.24	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	24.16	21.41	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	24.04	21.29	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	24.13	21.38	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	24.21	21.46	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	24.18	21.43	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	23.21	20.46	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	23.11	20.36	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	23.22	20.47	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	23.04	20.29	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	23.15	20.40	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	23.17	20.42	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	23.12	20.37	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	22.11	19.36	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	23.13	20.38	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	23.31	20.56	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	23.23	20.48	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	23.11	20.36	38.45	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.sgsgroup.com.cn
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Band5	1.4MHz	16QAM	20525	3RB#1	23.14	20.39	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	23.11	20.36	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	22.13	19.38	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	23.12	20.37	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	23.24	20.49	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	23.15	20.40	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	23.11	20.36	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	23.19	20.44	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	23.13	20.38	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	22.23	19.48	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.95	21.20	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.88	21.13	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.89	21.14	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.97	20.22	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#4	23.00	20.25	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#7	22.94	20.19	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.97	20.22	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.93	21.18	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.91	21.16	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.91	21.16	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#0	23.00	20.25	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#4	23.04	20.29	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#7	23.01	20.26	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	23.01	20.26	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	24.01	21.26	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	24.04	21.29	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	24.07	21.32	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#0	23.11	20.36	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#4	23.15	20.40	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#7	23.12	20.37	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	23.15	20.40	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	23.32	20.57	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	23.17	20.42	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	23.21	20.46	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#0	22.07	19.32	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#4	22.06	19.31	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#7	22.00	19.25	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.96	19.21	38.45	PASS



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Band5	3MHz	16QAM	20525	1RB#0	23.21	20.46	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	23.16	20.41	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	23.24	20.49	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#0	22.06	19.31	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#4	22.08	19.33	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#7	22.11	19.36	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	22.02	19.27	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	23.21	20.46	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	23.21	20.46	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	23.31	20.56	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#0	22.15	19.40	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#4	22.18	19.43	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#7	22.12	19.37	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	22.11	19.36	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.83	21.08	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	24.01	21.26	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.79	21.04	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#0	22.96	20.21	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#6	23.01	20.26	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.99	20.24	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.98	20.23	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.84	21.09	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	24.06	21.31	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.80	21.05	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#0	23.05	20.30	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#6	23.07	20.32	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.98	20.23	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	23.05	20.30	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.90	21.15	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	24.19	21.44	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.96	21.21	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#0	23.08	20.33	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#6	23.14	20.39	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#13	23.07	20.32	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	23.11	20.36	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	23.19	20.44	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	23.21	20.46	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.97	20.22	38.45	PASS



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Band5	5MHz	16QAM	20425	12RB#0	22.01	19.26	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#6	22.05	19.30	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#13	22.02	19.27	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.97	19.22	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	23.10	20.35	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	23.31	20.56	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	23.11	20.36	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#0	22.08	19.33	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#6	22.10	19.35	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#13	22.01	19.26	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	22.08	19.33	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	23.10	20.35	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	23.24	20.49	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	23.16	20.41	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#0	22.05	19.30	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#6	22.13	19.38	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#13	22.03	19.28	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	22.08	19.33	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.94	21.19	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	24.01	21.26	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.87	21.12	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.98	20.23	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#12	23.04	20.29	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#25	23.02	20.27	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	23.02	20.27	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.91	21.16	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	24.06	21.31	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.96	21.21	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#0	23.14	20.39	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#12	23.09	20.34	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#25	23.05	20.30	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	23.13	20.38	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.97	21.22	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	24.11	21.36	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	24.08	21.33	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#0	23.14	20.39	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#12	23.19	20.44	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#25	23.18	20.43	38.45	PASS



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Band5	10MHz	QPSK	20600	50RB#0	23.19	20.44	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	23.27	20.52	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	23.29	20.54	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	23.20	20.45	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#0	21.99	19.24	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#12	22.02	19.27	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#25	22.01	19.26	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	22.01	19.26	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.21	20.46	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	23.32	20.57	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	23.17	20.42	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#0	22.12	19.37	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#12	22.09	19.34	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#25	22.07	19.32	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	22.12	19.37	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	23.24	20.49	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	23.29	20.54	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	23.23	20.48	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#0	22.12	19.37	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#12	22.19	19.44	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#25	22.18	19.43	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	22.15	19.40	38.45	PASS

Remark:

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

$$ERP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBd]}$$

$$EIRP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBi]}$$



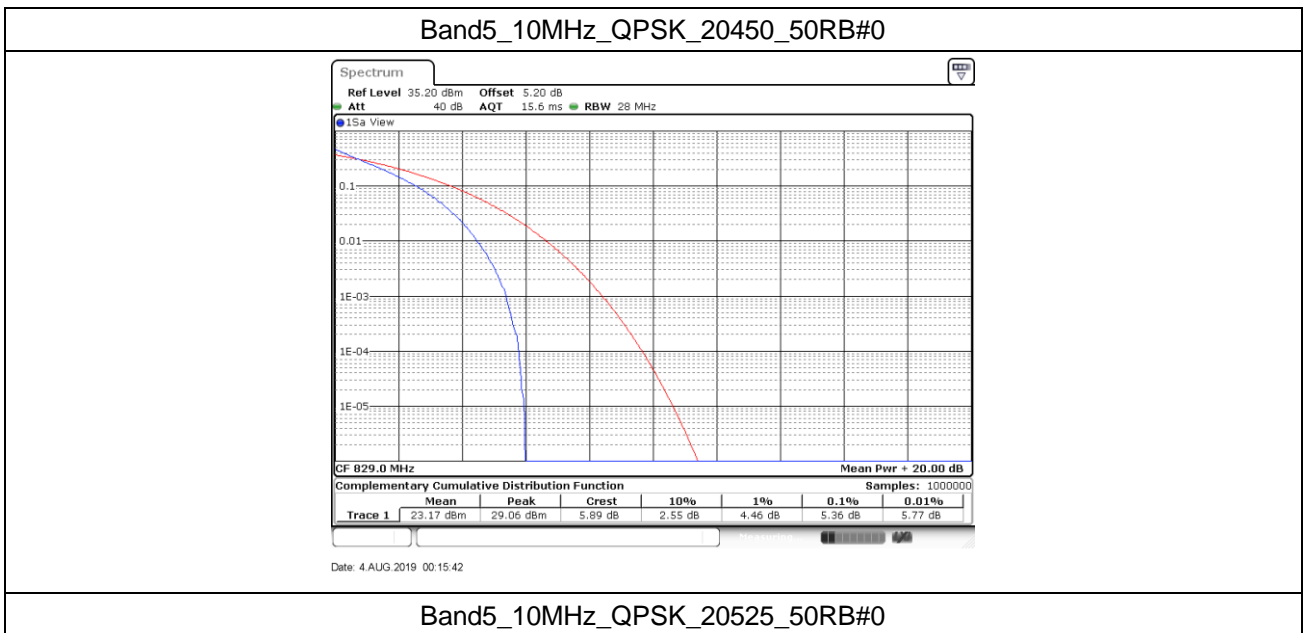
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2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

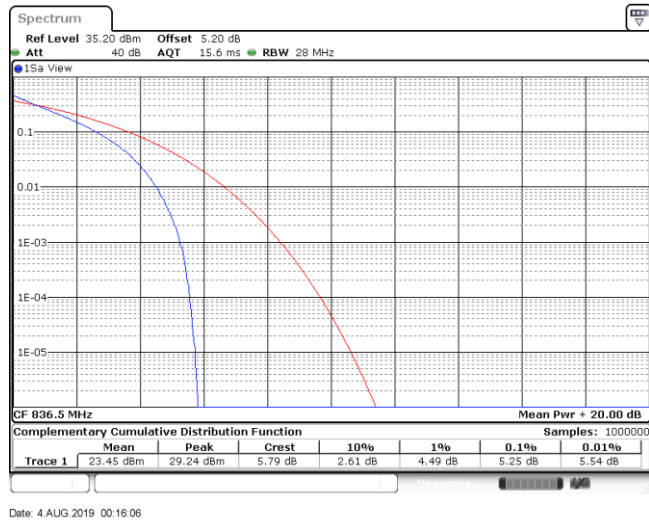
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	5.36	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.25	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	4.72	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.06	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.03	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.54	13	PASS

2.2. Test Plots



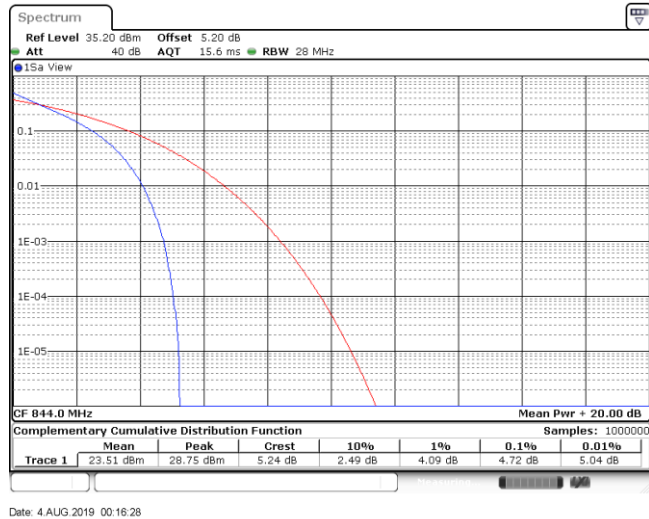
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Date: 4.AUG.2019 00:16:06

Band5_10MHz_QPSK_20600_50RB#0

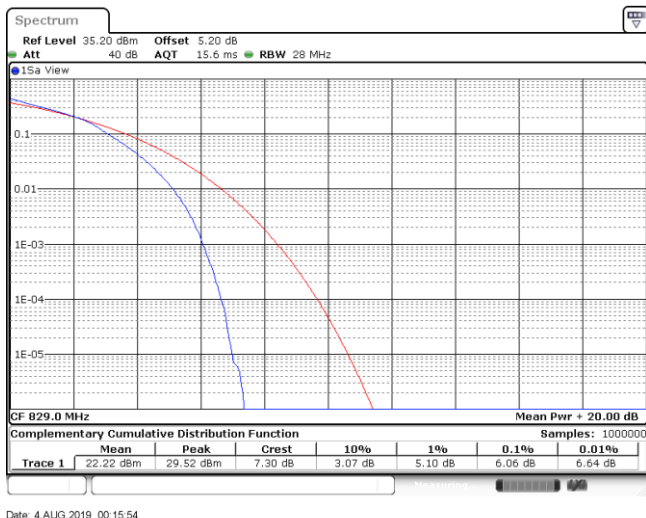


Date: 4.AUG.2019 00:16:28

Band5_10MHz_16QAM_20450_50RB#0

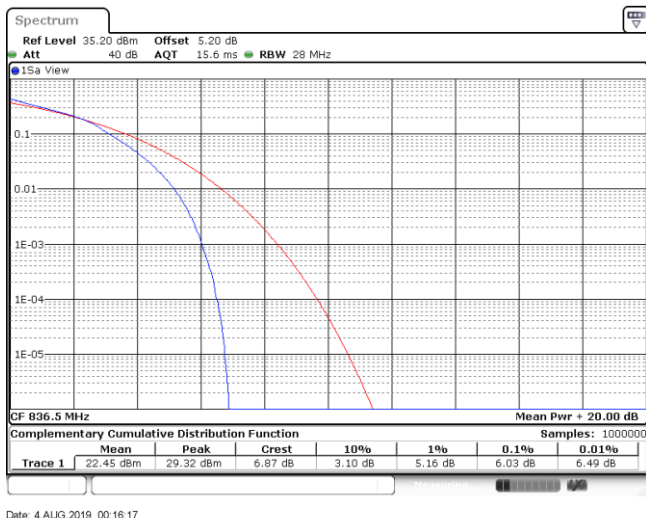


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Date: 4.AUG.2019 00:15:54

Band5_10MHz_16QAM_20525_50RB#0

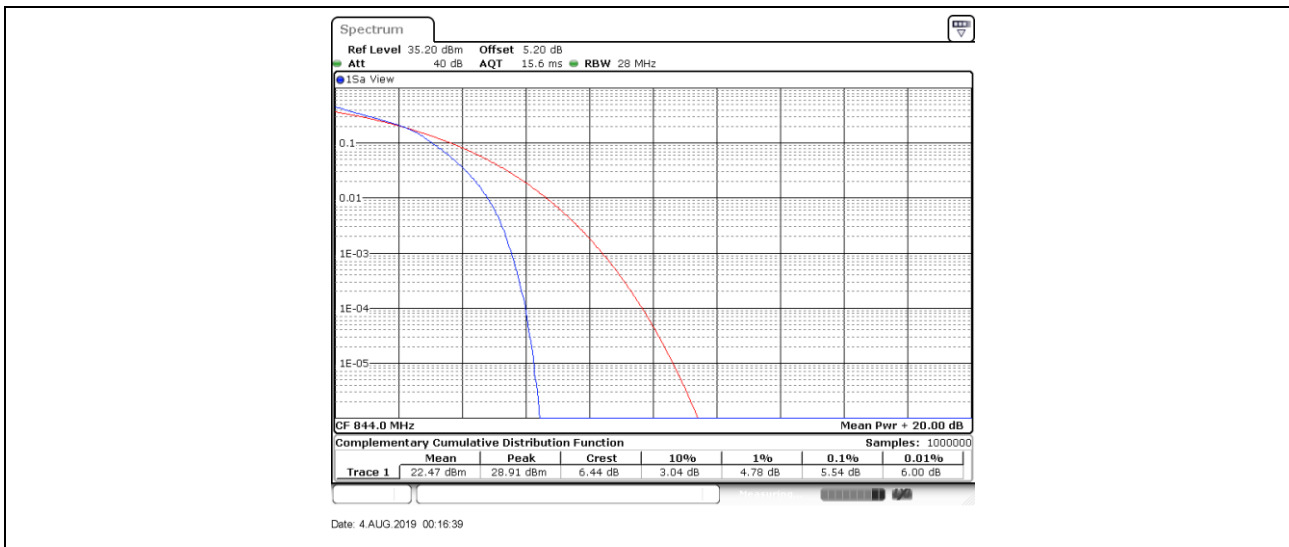


Date: 4.AUG.2019 00:16:17

Band5_10MHz_16QAM_20600_50RB#0



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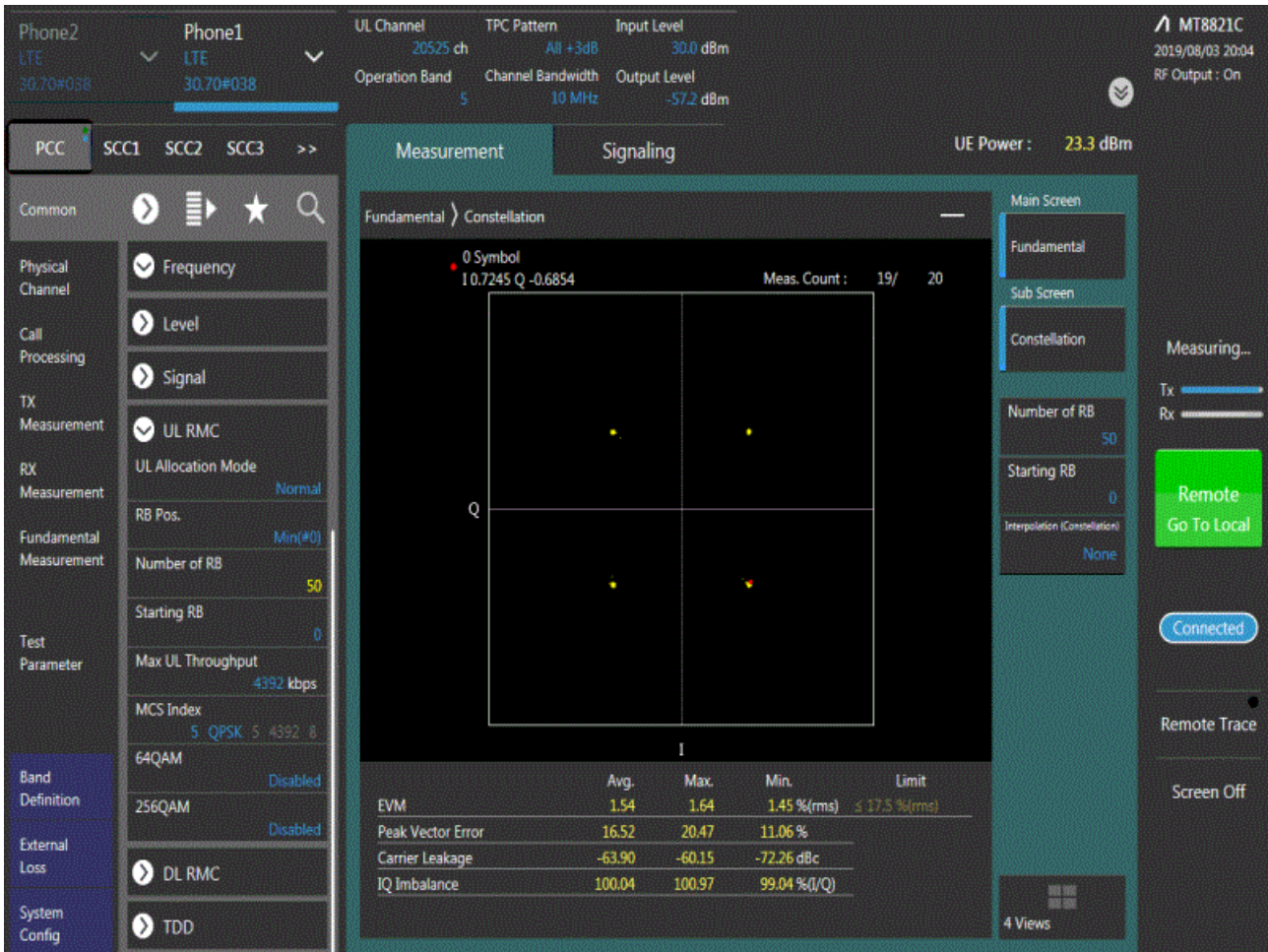
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3. Modulation Characteristics

3.1. Test Band = LTE Band 5

3.2. Test Mode = LTE /TM1 10MHz

3.2.1. Test Channel = MCH

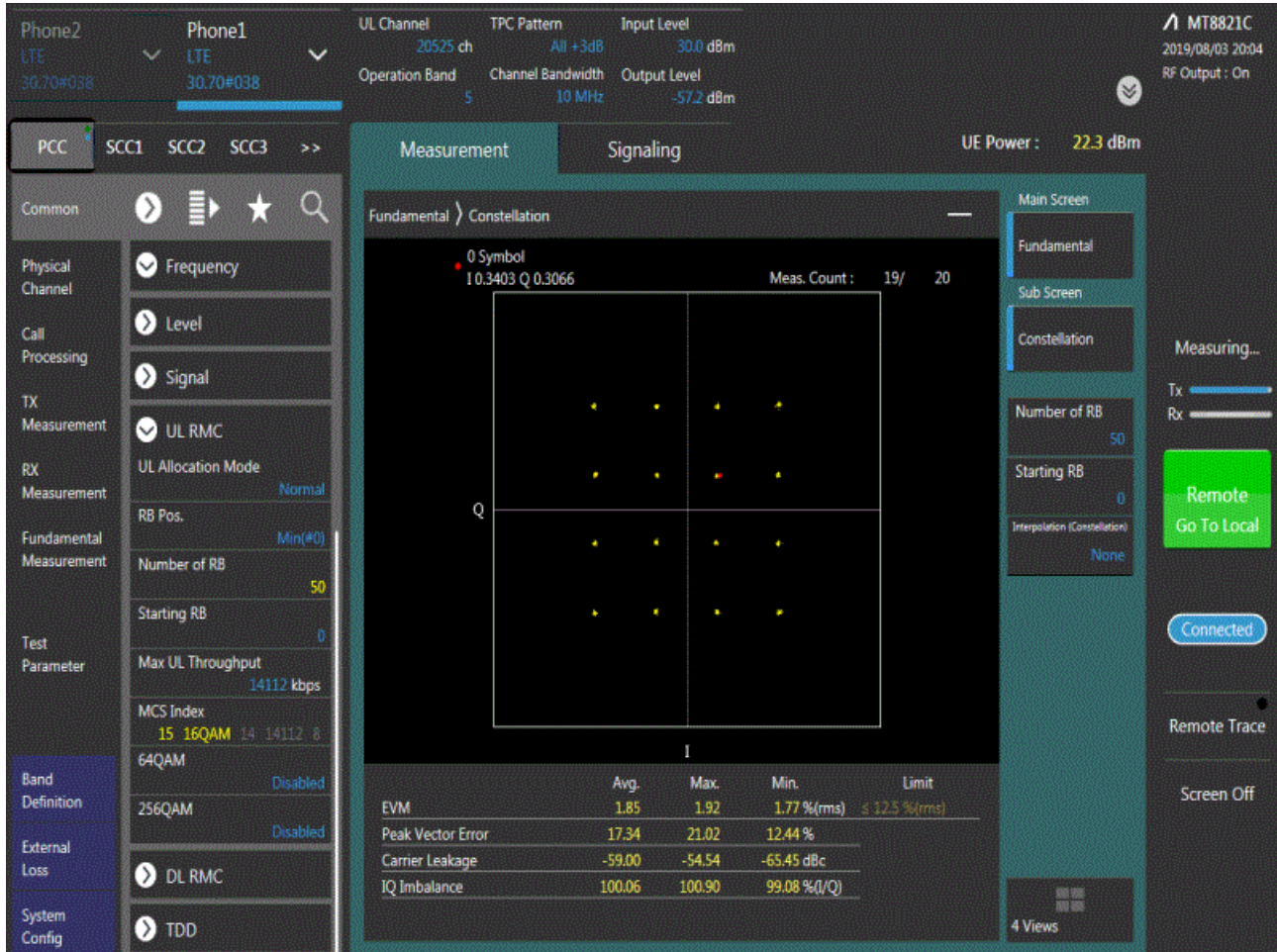


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3.3. Test Mode = LTE /TM2 10MHz

3.3.1. Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

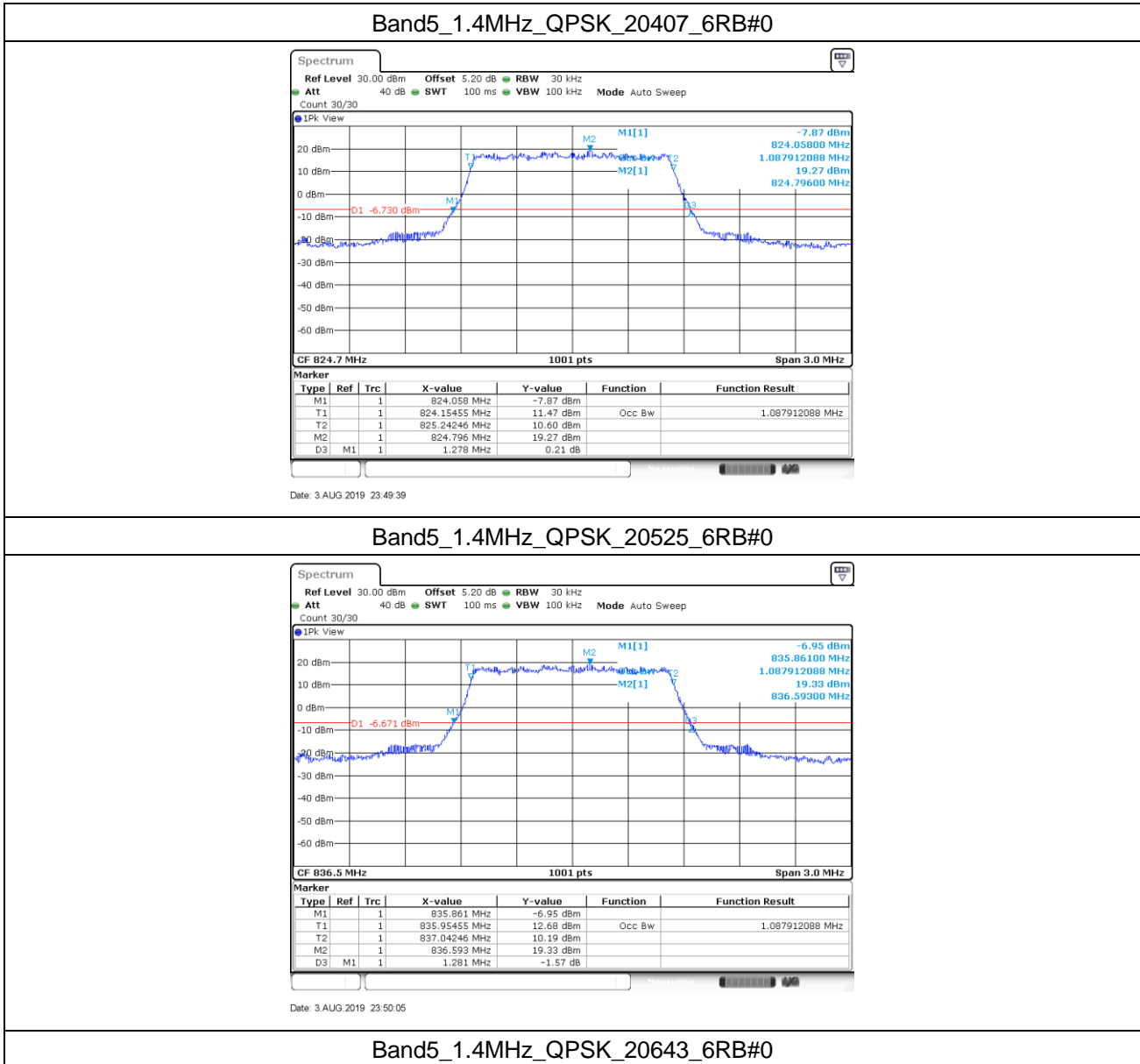
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.088	1.278	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.088	1.281	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.091	1.281	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.091	1.287	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.091	1.284	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.091	1.284	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.691	2.922	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.691	2.922	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.691	2.934	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.679	2.904	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.679	2.910	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.673	2.904	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.476	4.850	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.476	4.840	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.466	4.820	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.486	4.870	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.486	4.870	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.486	4.860	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.911	9.580	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.951	9.640	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.911	9.600	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.911	9.600	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.951	9.640	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.911	9.600	PASS



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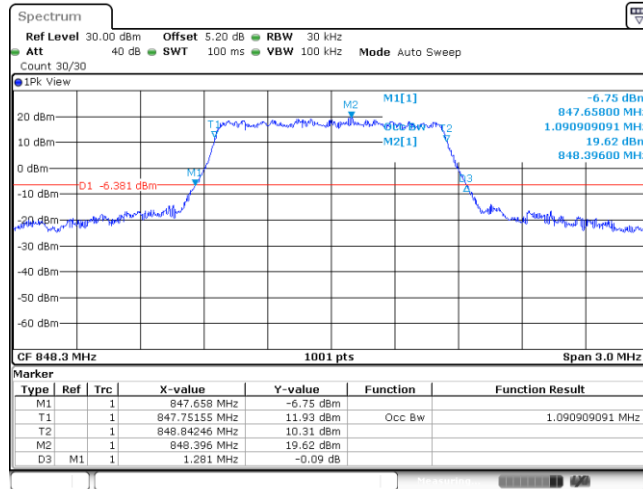
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4.2. Test Plots



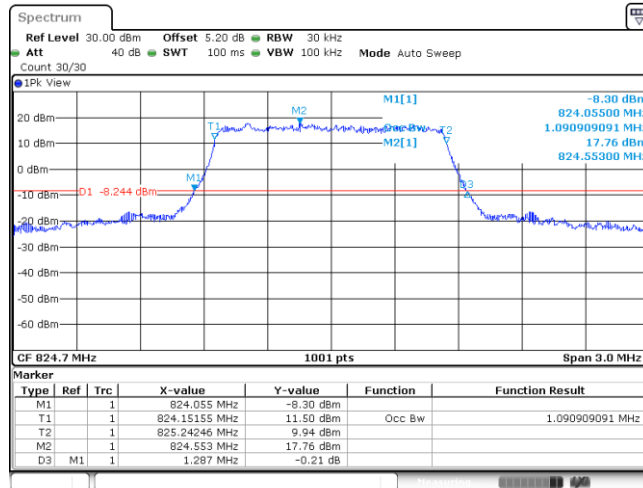
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Date: 3 AUG 2019 23:50:30

Band5_1.4MHz_16QAM_20407_6RB#0

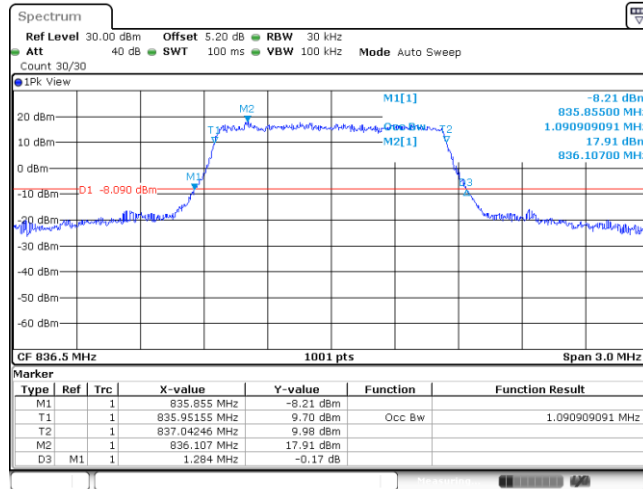


Date: 3 AUG 2019 23:49:52

Band5_1.4MHz_16QAM_20525_6RB#0

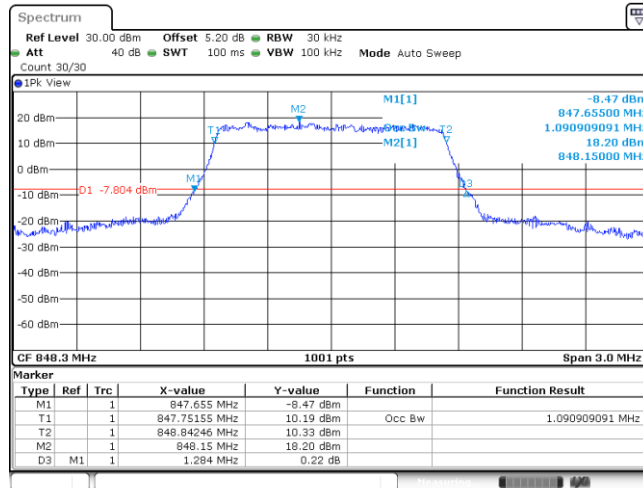


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Date: 3 AUG 2019 23:50:17

Band5_1.4MHz_16QAM_20643_6RB#0

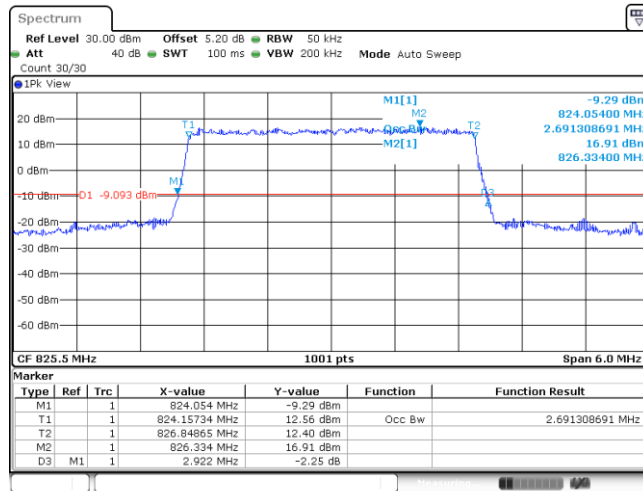


Date: 3 AUG 2019 23:50:43

Band5_3MHz_QPSK_20415_15RB#0

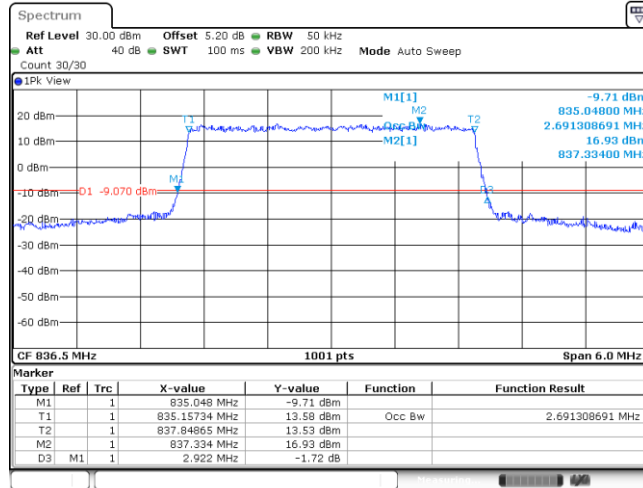


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Date: 3 AUG 2019 23:51:01

Band5_3MHz_QPSK_20525_15RB#0

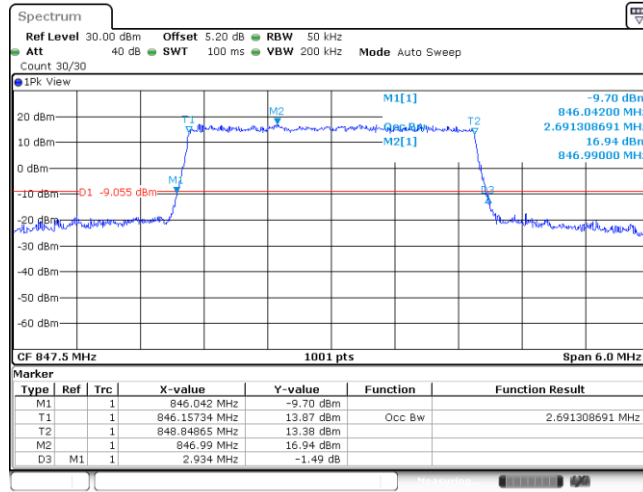


Date: 3 AUG 2019 23:51:27

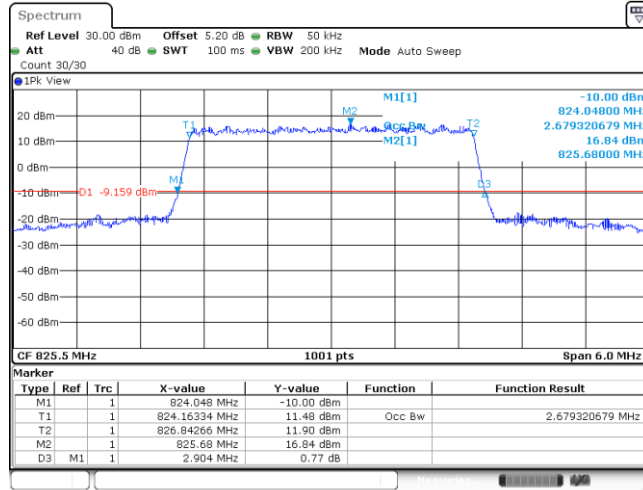
Band5_3MHz_QPSK_20635_15RB#0



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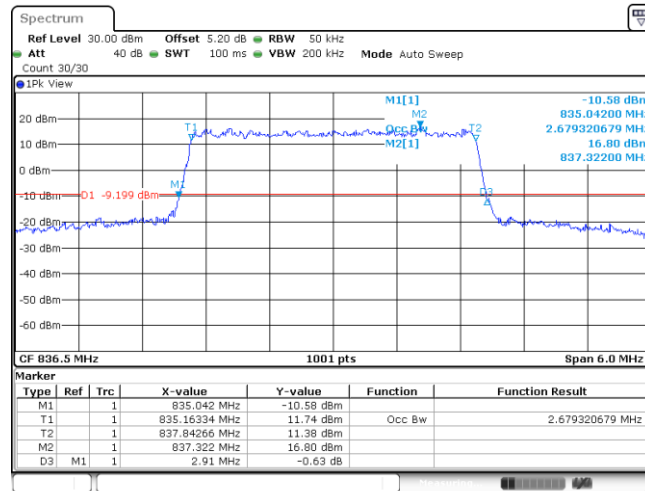
Band5_3MHz_16QAM_20415_15RB#0



Band5_3MHz_16QAM_20525_15RB#0

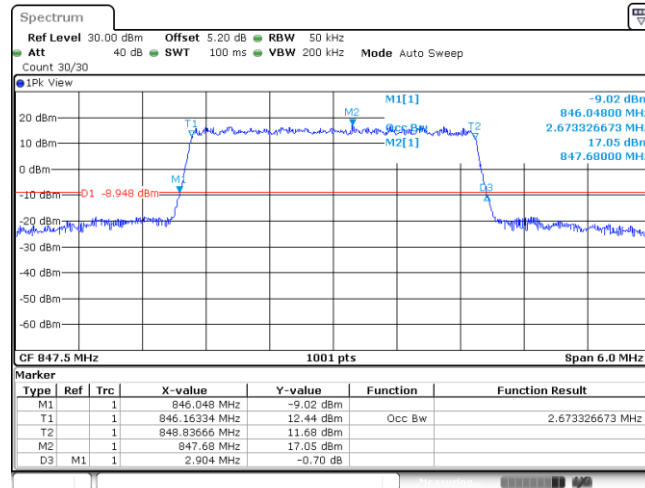


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Band5_3MHz_16QAM_20635_15RB#0

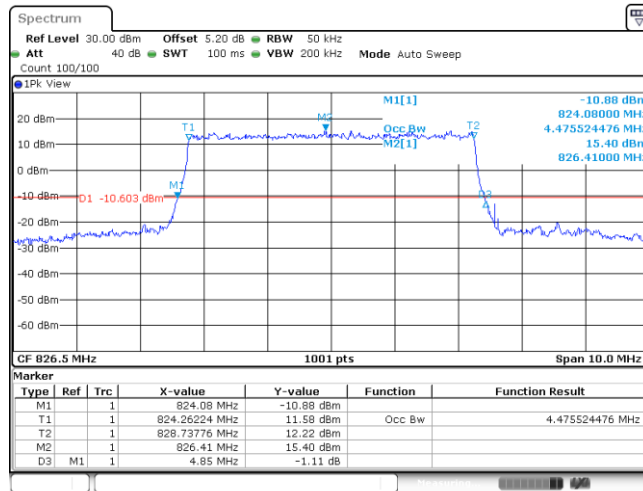


Date: 3 AUG 2019 23:52:05

Band5_5MHz_QPSK_20425_25RB#0

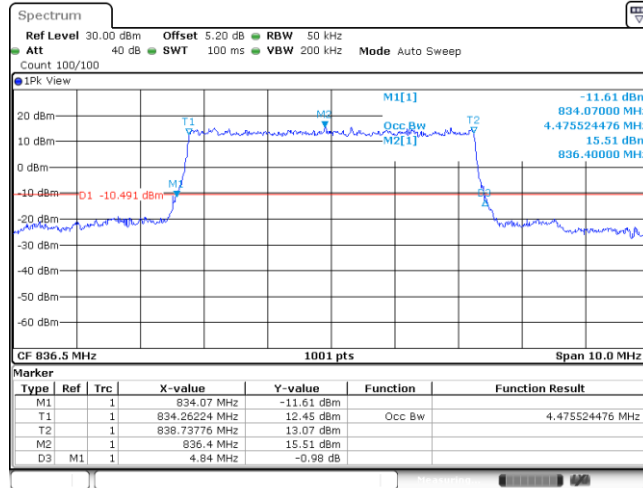


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Date: 3 AUG 2019 23:52:30

Band5_5MHz_QPSK_20525_25RB#0

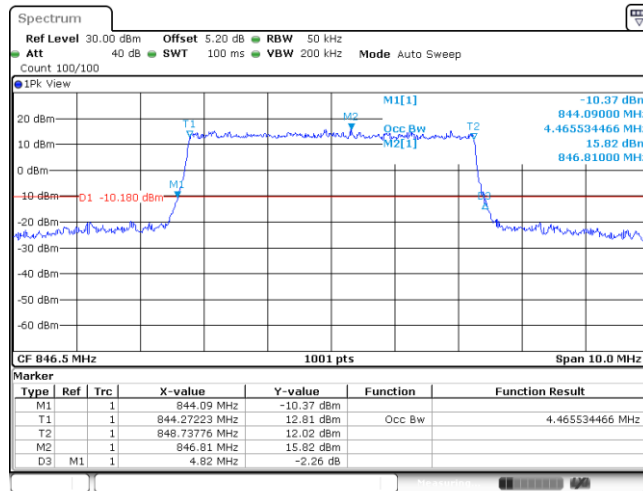


Date: 3 AUG 2019 23:53:10

Band5_5MHz_QPSK_20625_25RB#0

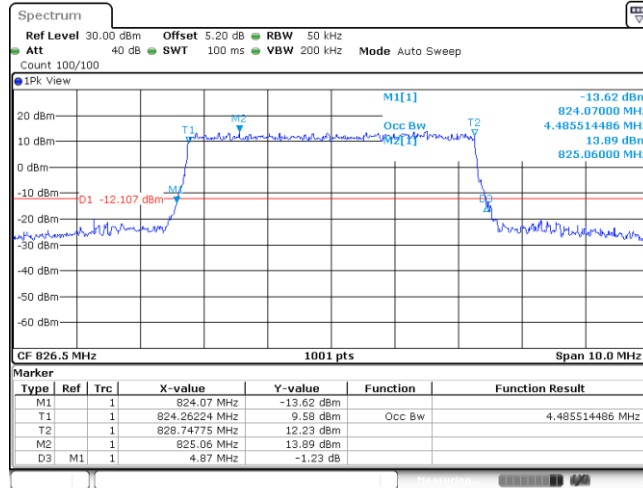


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Date: 3 AUG 2019 23:53:50

Band5_5MHz_16QAM_20425_25RB#0

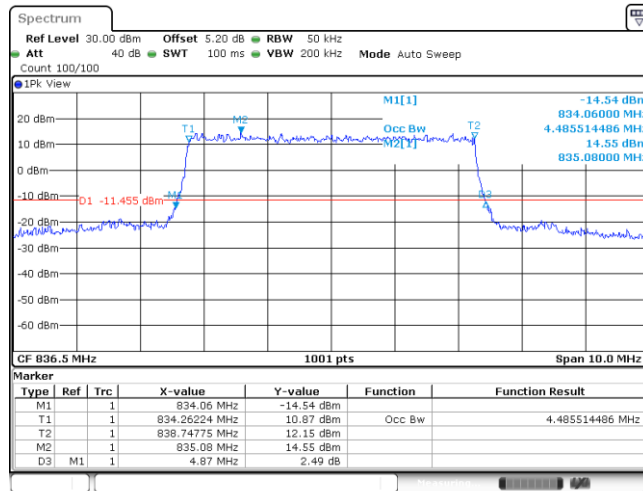


Date: 3 AUG 2019 23:52:50

Band5_5MHz_16QAM_20525_25RB#0

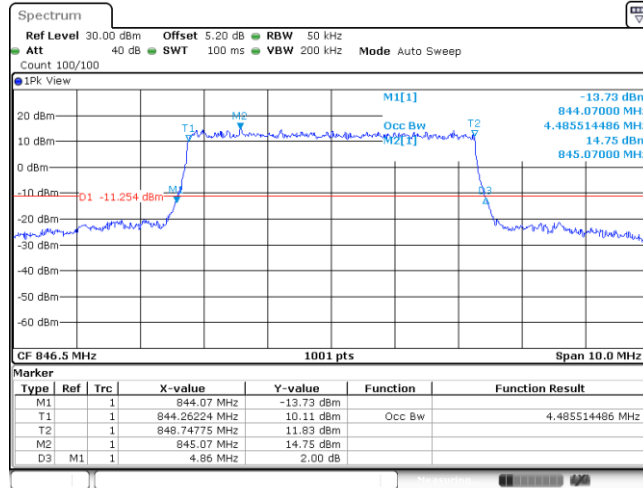


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Date: 3 AUG 2019 23:53:30

Band5_5MHz_16QAM_20625_25RB#0

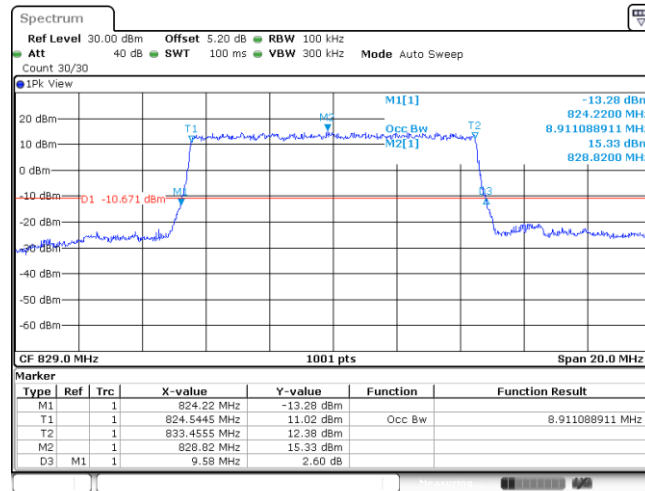


Date: 3 AUG 2019 23:54:09

Band5_10MHz_QPSK_20450_50RB#0

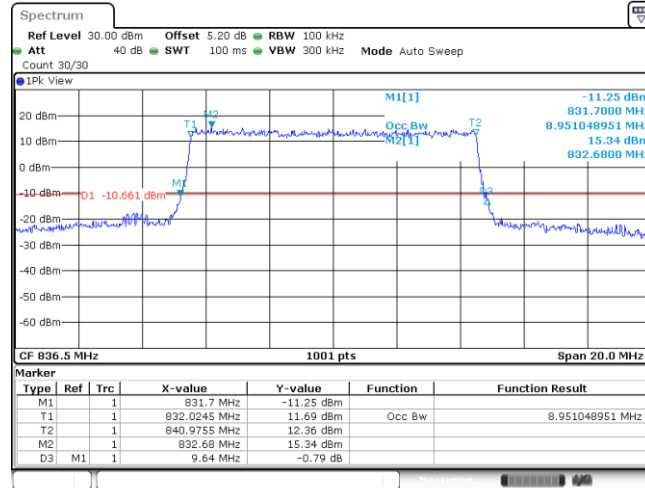


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Date: 3 AUG 2019 23:54:28

Band5_10MHz_QPSK_20525_50RB#0

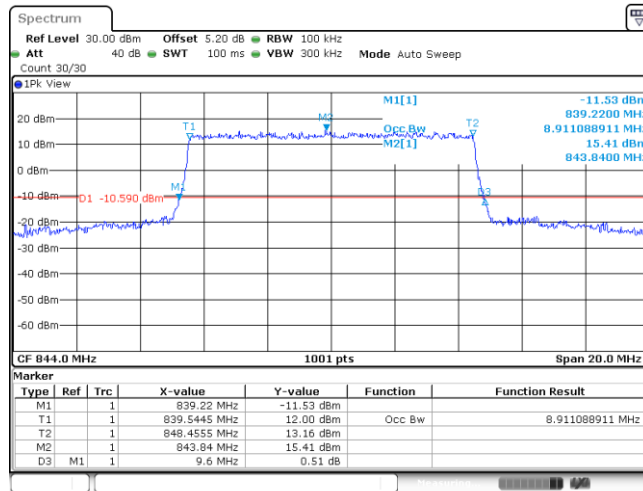


Date: 3 AUG 2019 23:54:53

Band5_10MHz_QPSK_20600_50RB#0

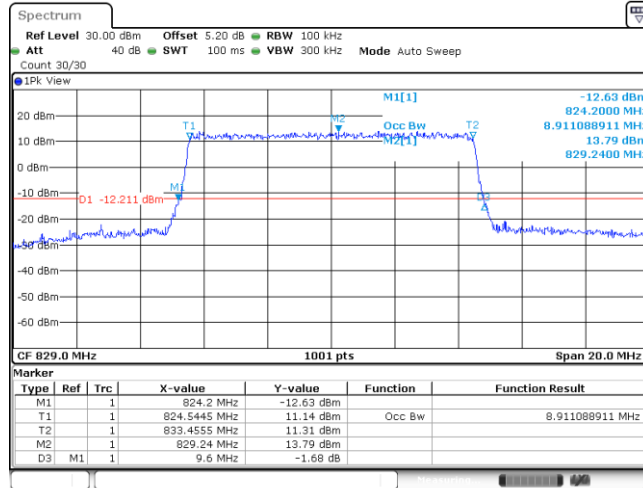


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Date: 3 AUG 2019 23:55:19

Band5_10MHz_16QAM_20450_50RB#0

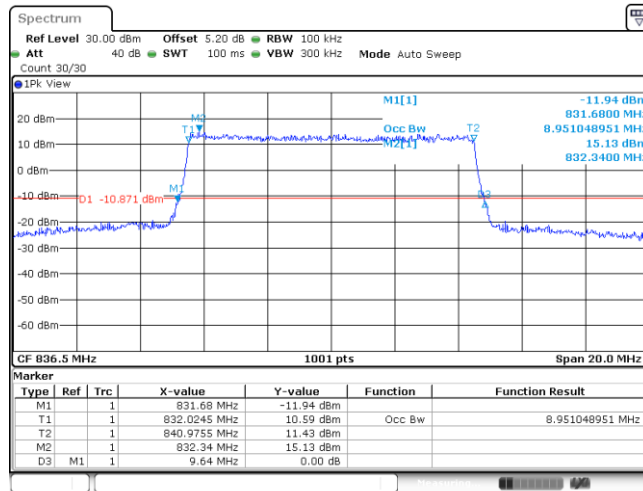


Date: 3 AUG 2019 23:54:40

Band5_10MHz_16QAM_20525_50RB#0

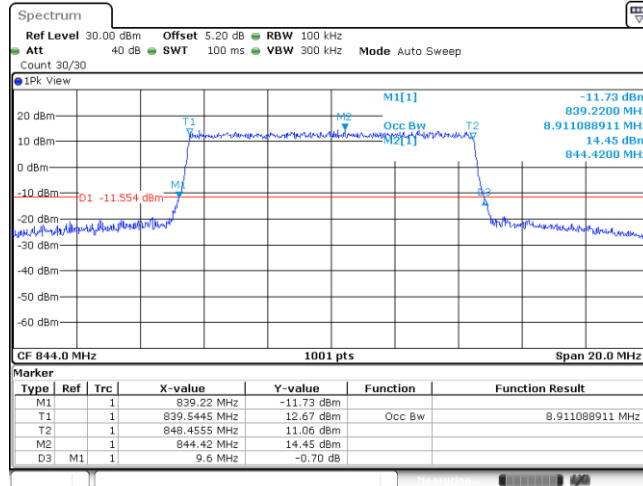


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Date: 3 AUG 2019 23:55:06

Band5_10MHz_16QAM_20600_50RB#0



Date: 3 AUG 2019 23:55:31

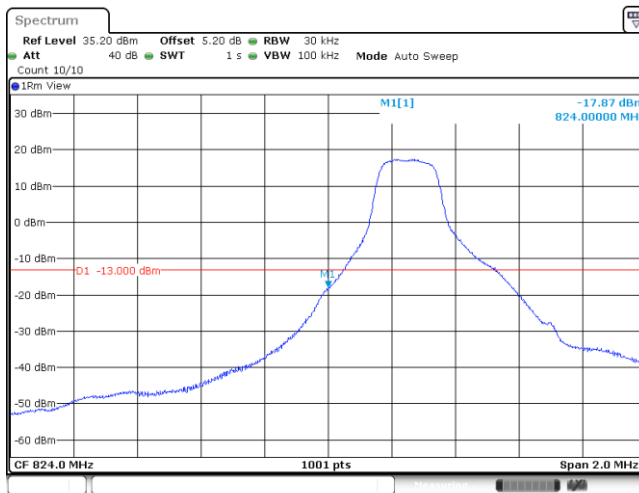


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5. Band Edge Compliance

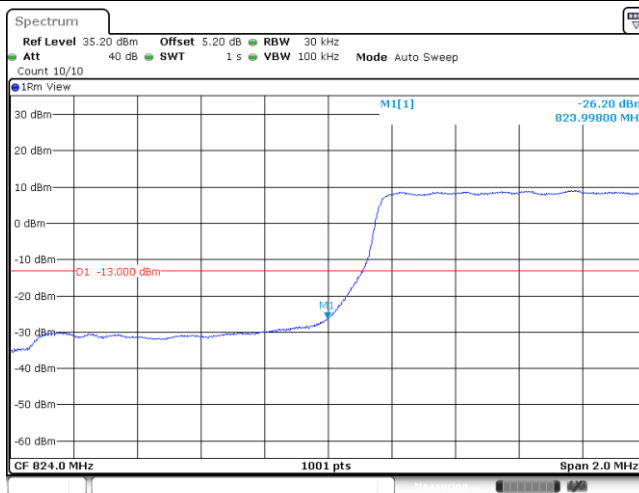
5.1. Test Plots

Band5_1.4MHz_QPSK_20407_1RB#0



Date: 3.AUG.2019 23:55:57

Band5_1.4MHz_QPSK_20407_6RB#0

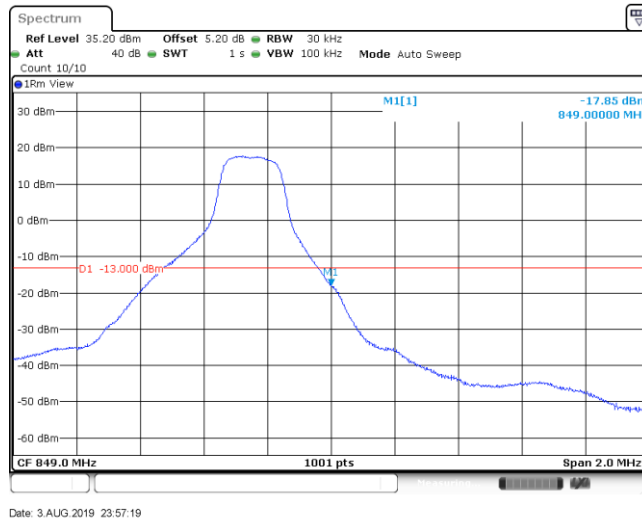


Date: 3.AUG.2019 23:56:36

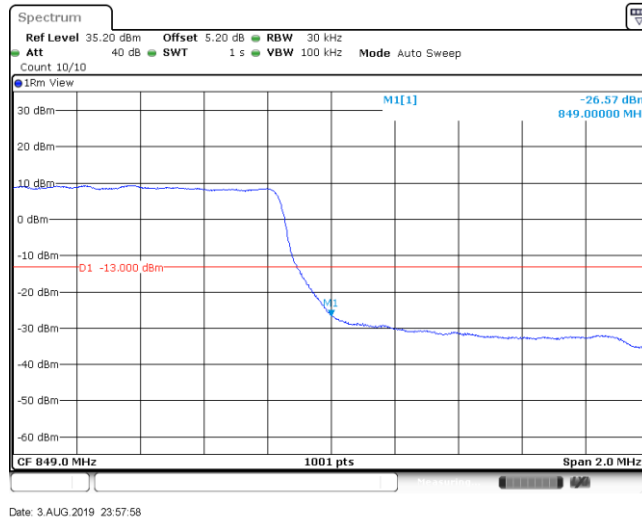
Band5_1.4MHz_QPSK_20643_1RB#5



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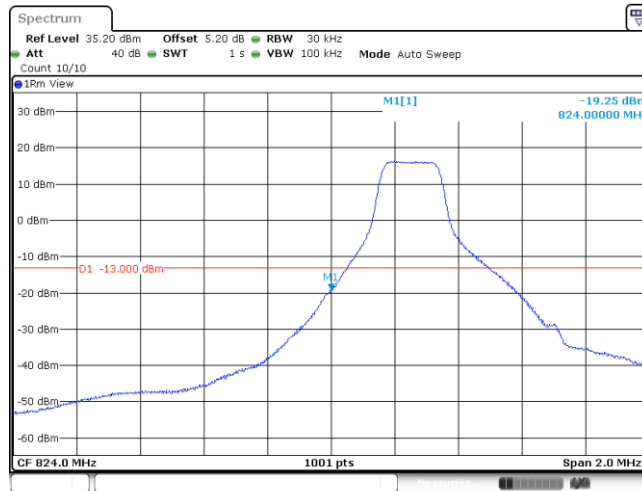
Band5_1.4MHz_QPSK_20643_6RB#0



Band5_1.4MHz_16QAM_20407_1RB#0

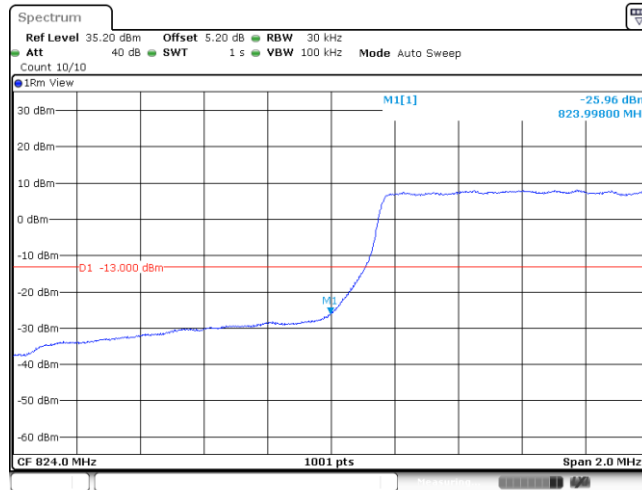


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Date: 3.AUG.2019 23:56:16

Band5_1.4MHz_16QAM_20407_6RB#0

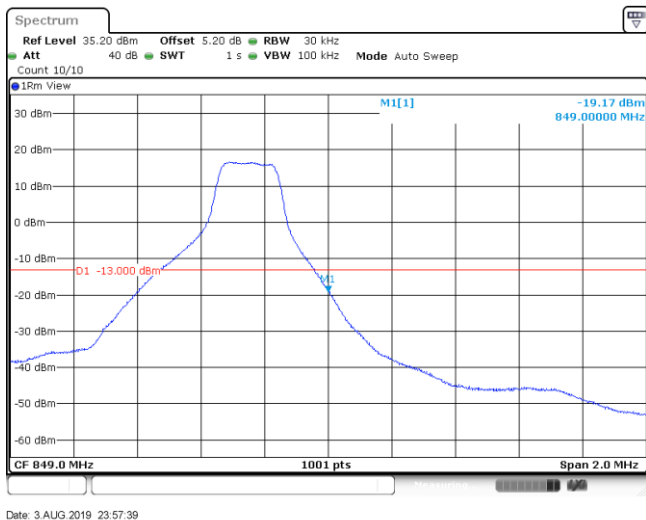


Date: 3.AUG.2019 23:56:55

Band5_1.4MHz_16QAM_20643_1RB#5

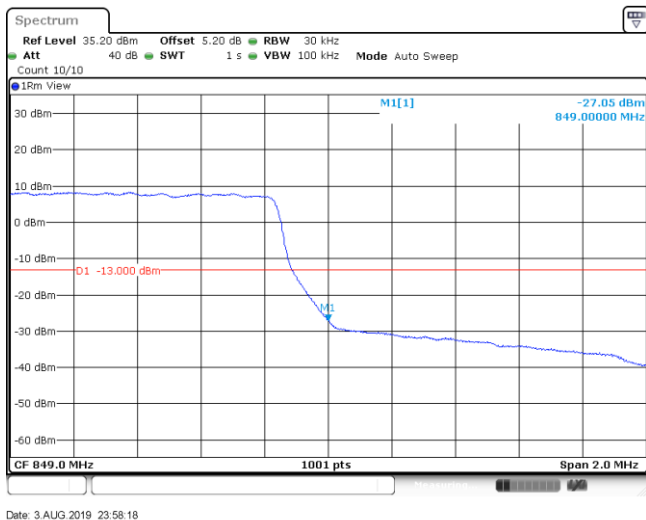


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Date: 3.AUG.2019 23:57:39

Band5_1.4MHz_16QAM_20643_6RB#0

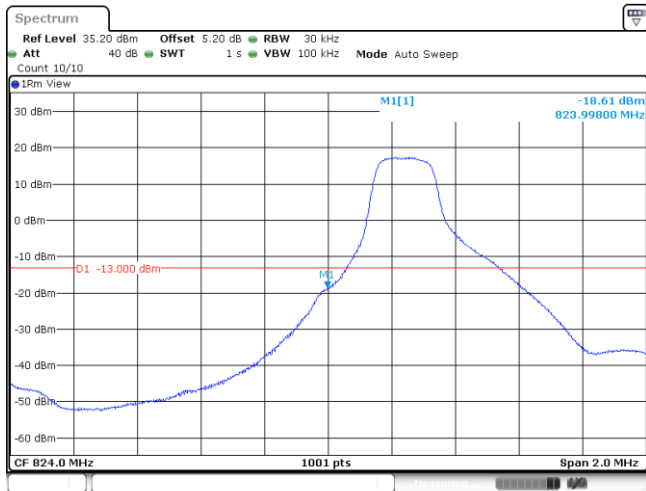


Date: 3.AUG.2019 23:58:18

Band5_3MHz_QPSK_20415_1RB#0

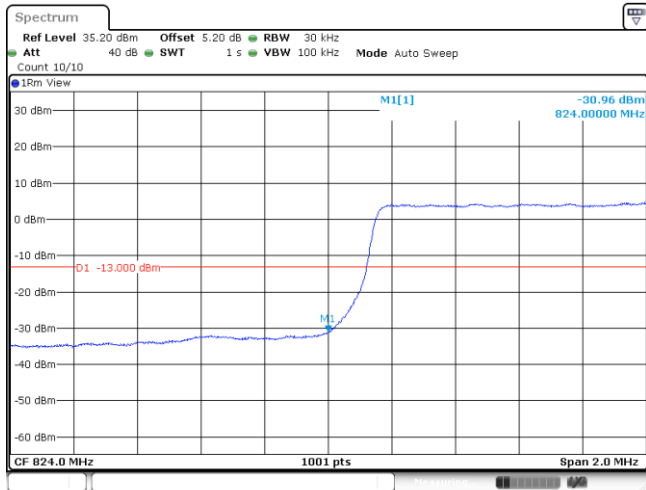


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Date: 3.AUG.2019 23:58:43

Band5_3MHz_QPSK_20415_15RB#0

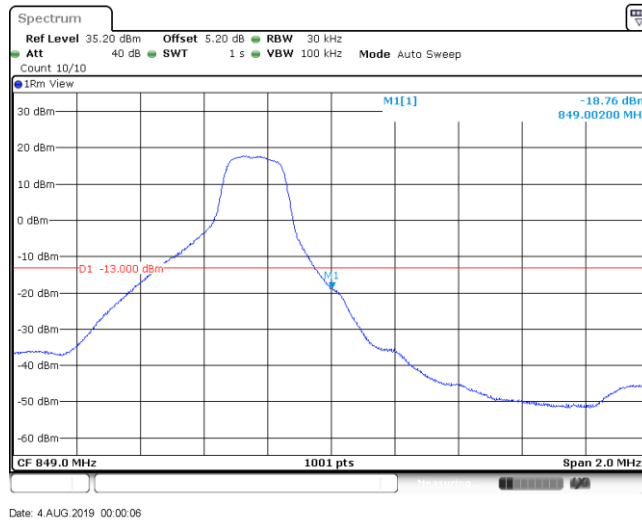


Date: 3.AUG.2019 23:58:22

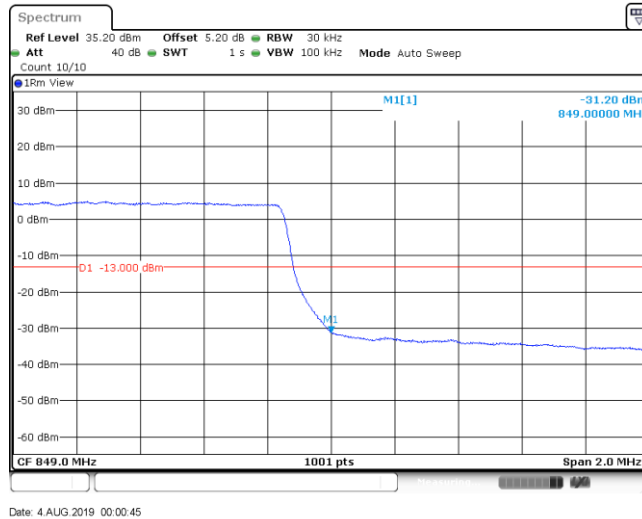
Band5_3MHz_QPSK_20635_1RB#14



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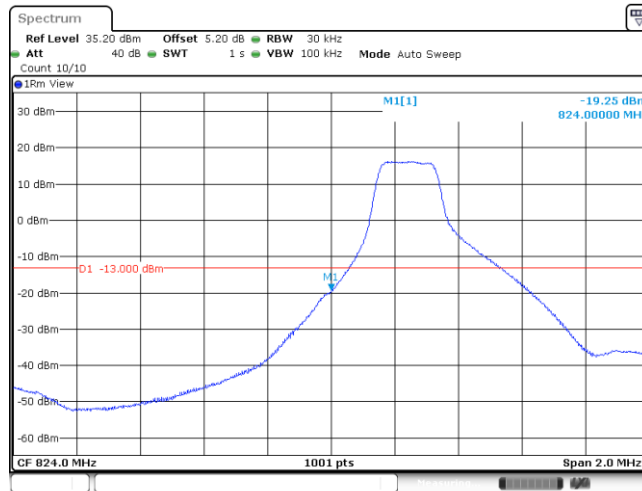
Band5_3MHz_QPSK_20635_15RB#0



Band5_3MHz_16QAM_20415_1RB#0

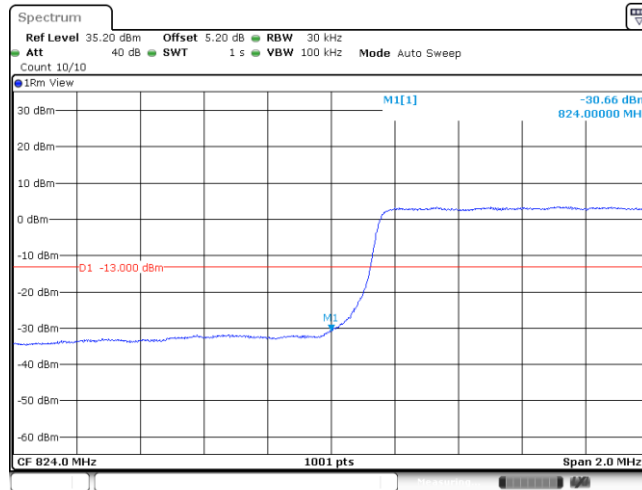


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Date: 3.AUG.2019 23:59:03

Band5_3MHz_16QAM_20415_15RB#0

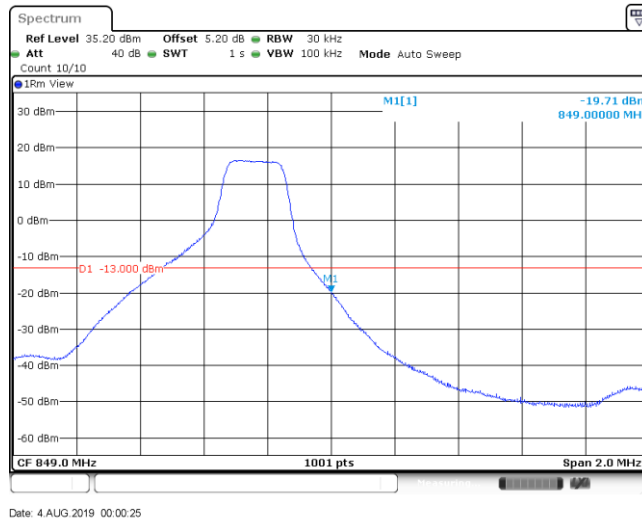


Date: 3.AUG.2019 23:59:42

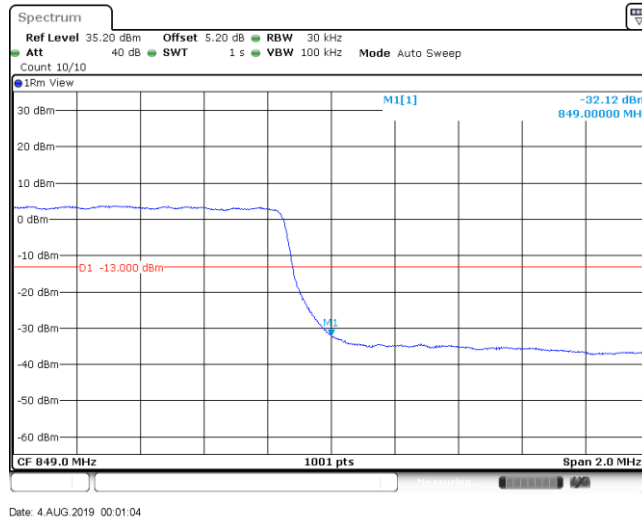
Band5_3MHz_16QAM_20635_1RB#14



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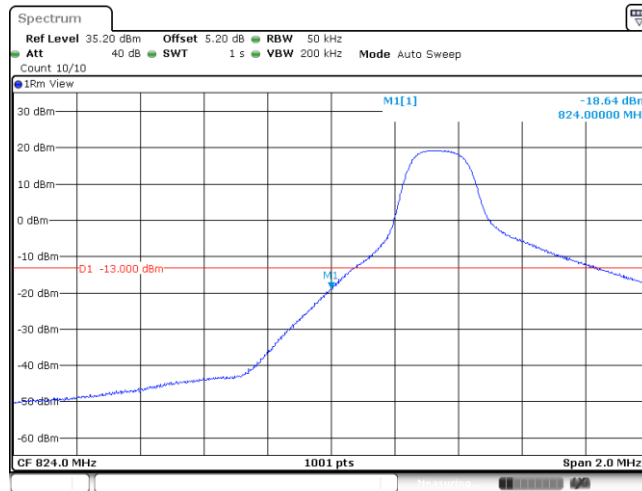
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Band5_5MHz_QPSK_20425_1RB#0

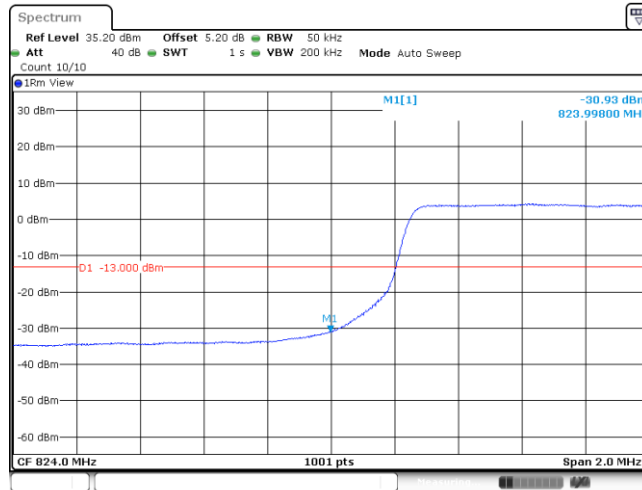


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Date: 4 AUG 2019 00:01:30

Band5_5MHz_QPSK_20425_25RB#0

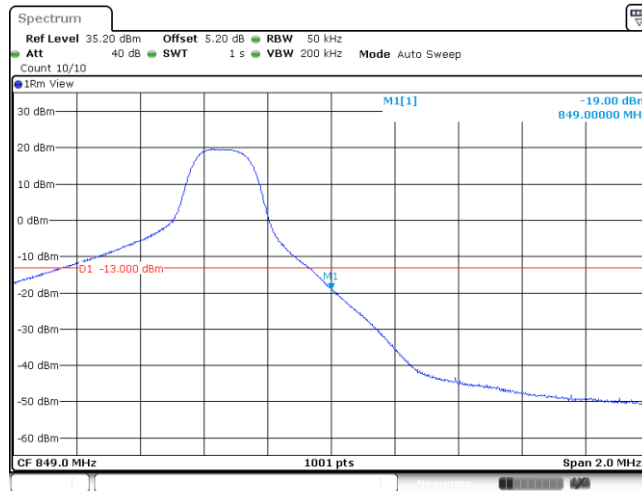


Date: 4 AUG 2019 00:02:10

Band5_5MHz_QPSK_20625_1RB#24

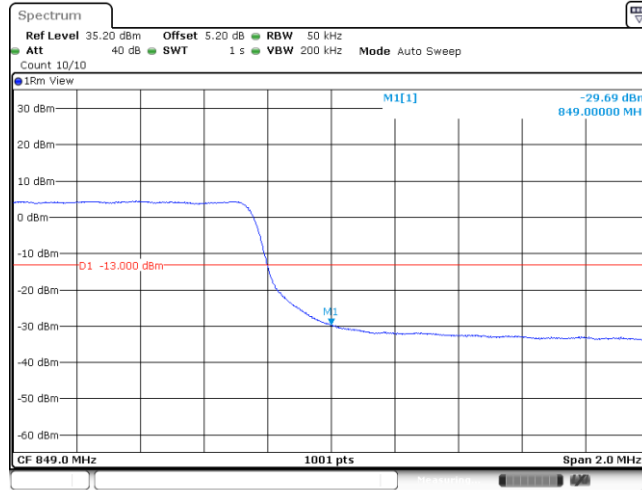


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Date: 4 AUG 2019 00:02:53

Band5_5MHz_QPSK_20625_25RB#

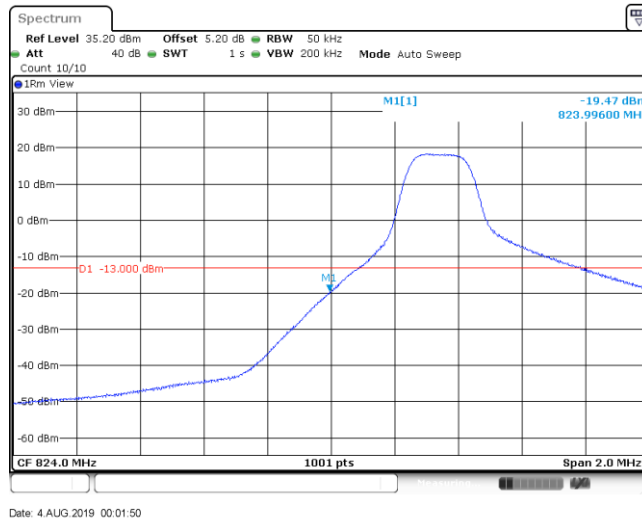


Date: 4 AUG 2019 00:03:32

Band5_5MHz_16QAM_20425_1RB#

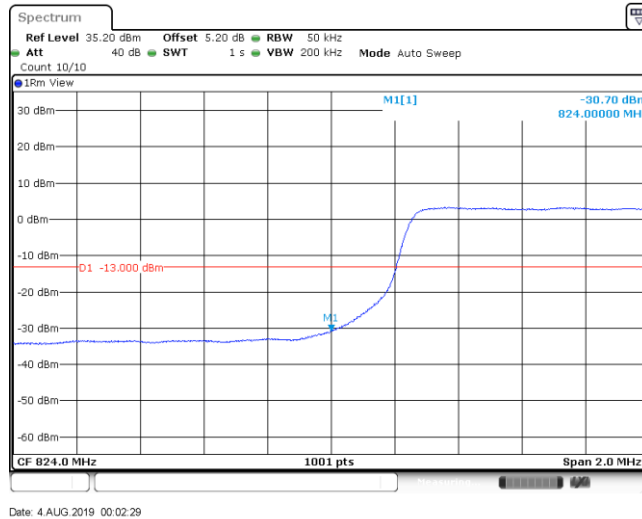


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Date: 4 AUG 2019 00:01:50

Band5_5MHz_16QAM_20425_25RB#0

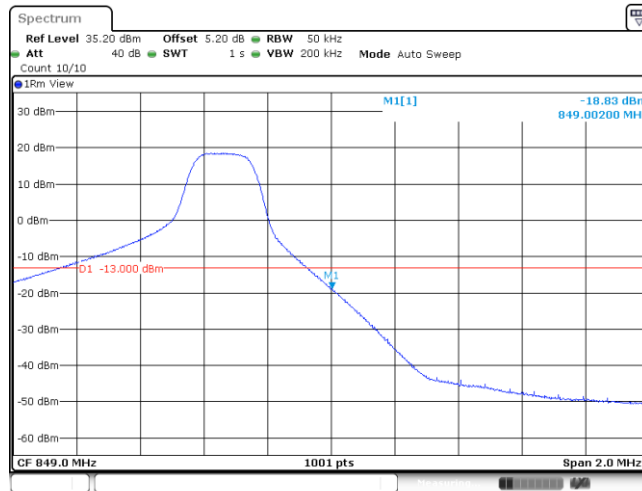


Date: 4 AUG 2019 00:02:29

Band5_5MHz_16QAM_20625_1RB#24

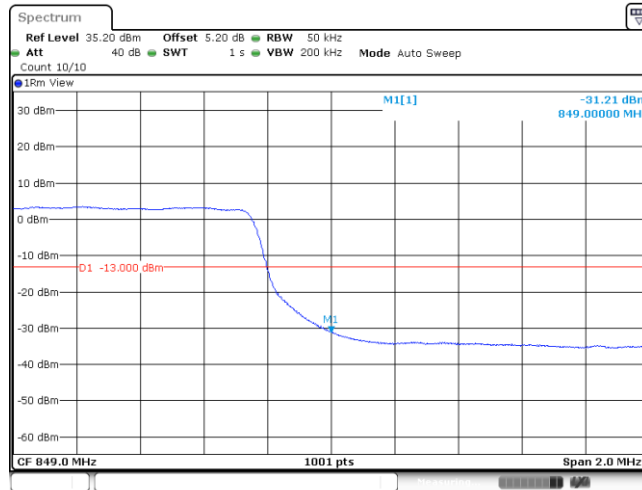


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Date: 4 AUG 2019 00:03:13

Band5_5MHz_16QAM_20625_25RB#0

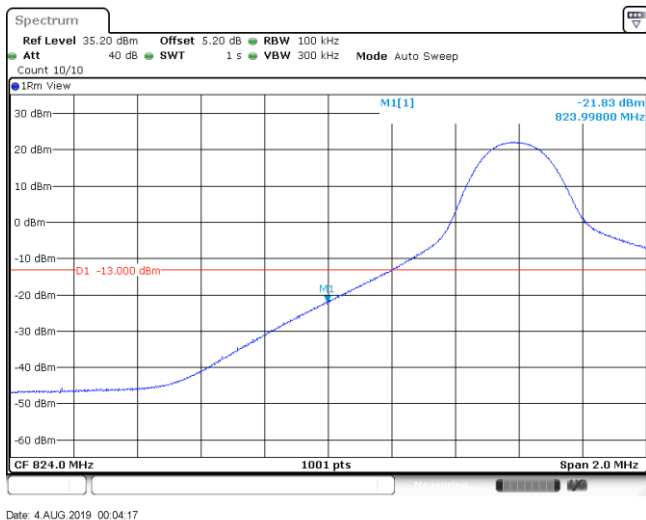


Date: 4 AUG 2019 00:03:52

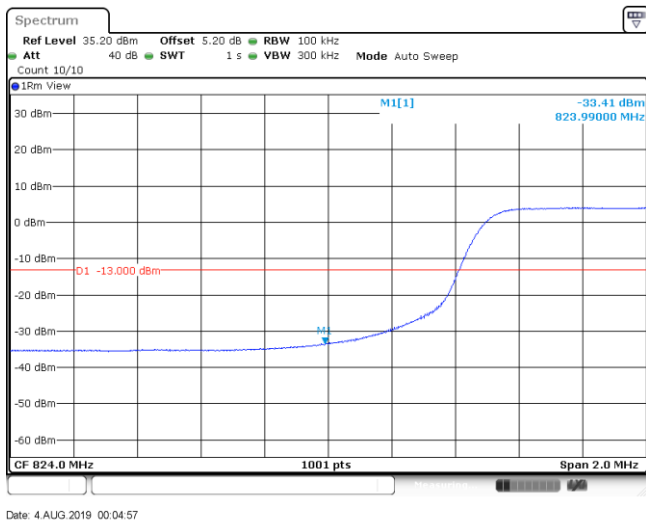
Band5_10MHz_QPSK_20450_1RB#0



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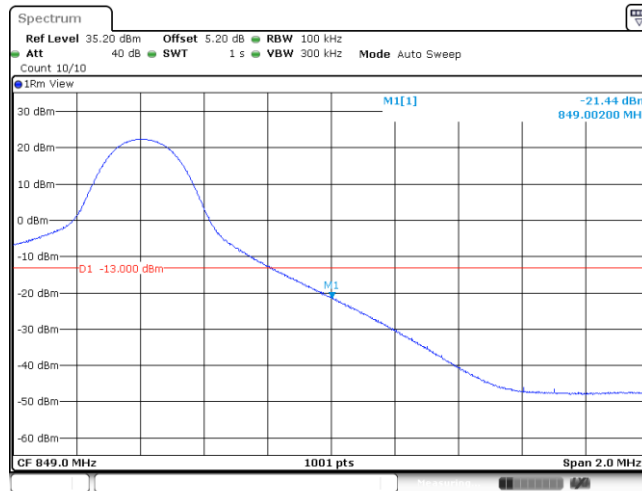
Band5_10MHz_QPSK_20450_50RB#0



Band5_10MHz_QPSK_20600_1RB#49

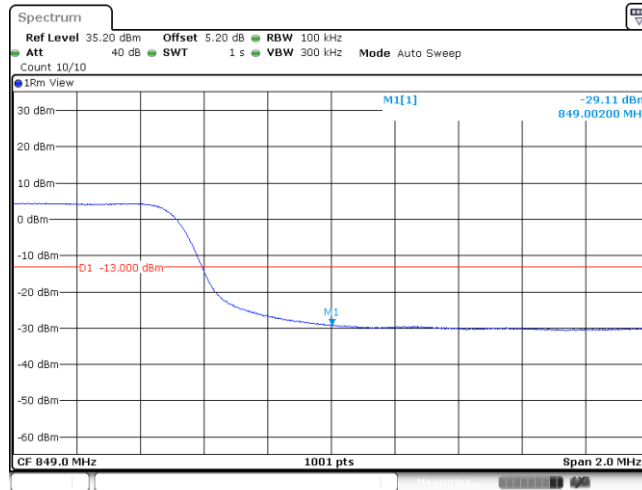


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Date: 4 AUG 2019 00:05:40

Band5_10MHz_QPSK_20600_50RB#0

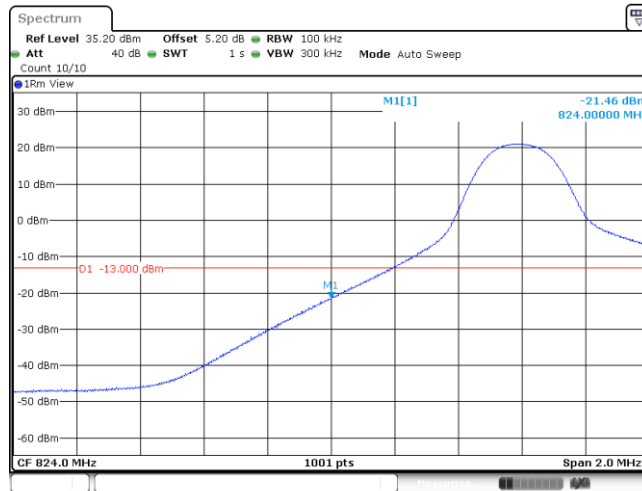


Date: 4 AUG 2019 00:06:19

Band5_10MHz_16QAM_20450_1RB#0

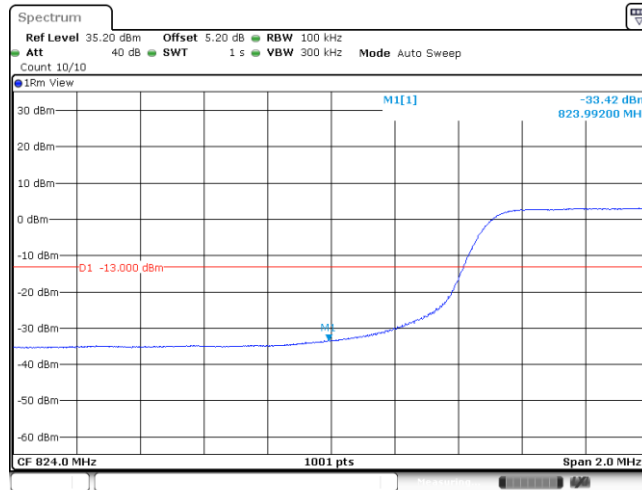


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Date: 4 AUG 2019 00:04:37

Band5_10MHz_16QAM_20450_50RB#0

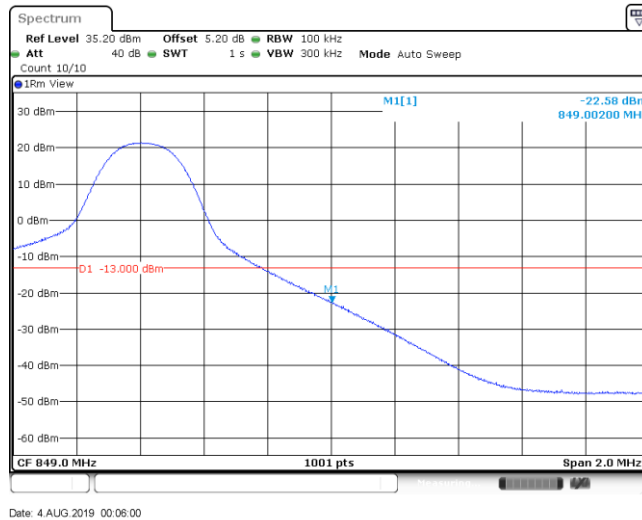


Date: 4 AUG 2019 00:05:16

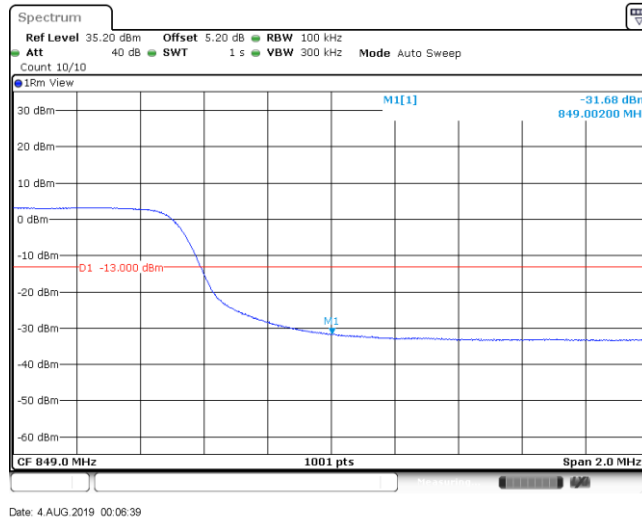
Band5_10MHz_16QAM_20600_1RB#49



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Band5_10MHz_16QAM_20600_50RB#0



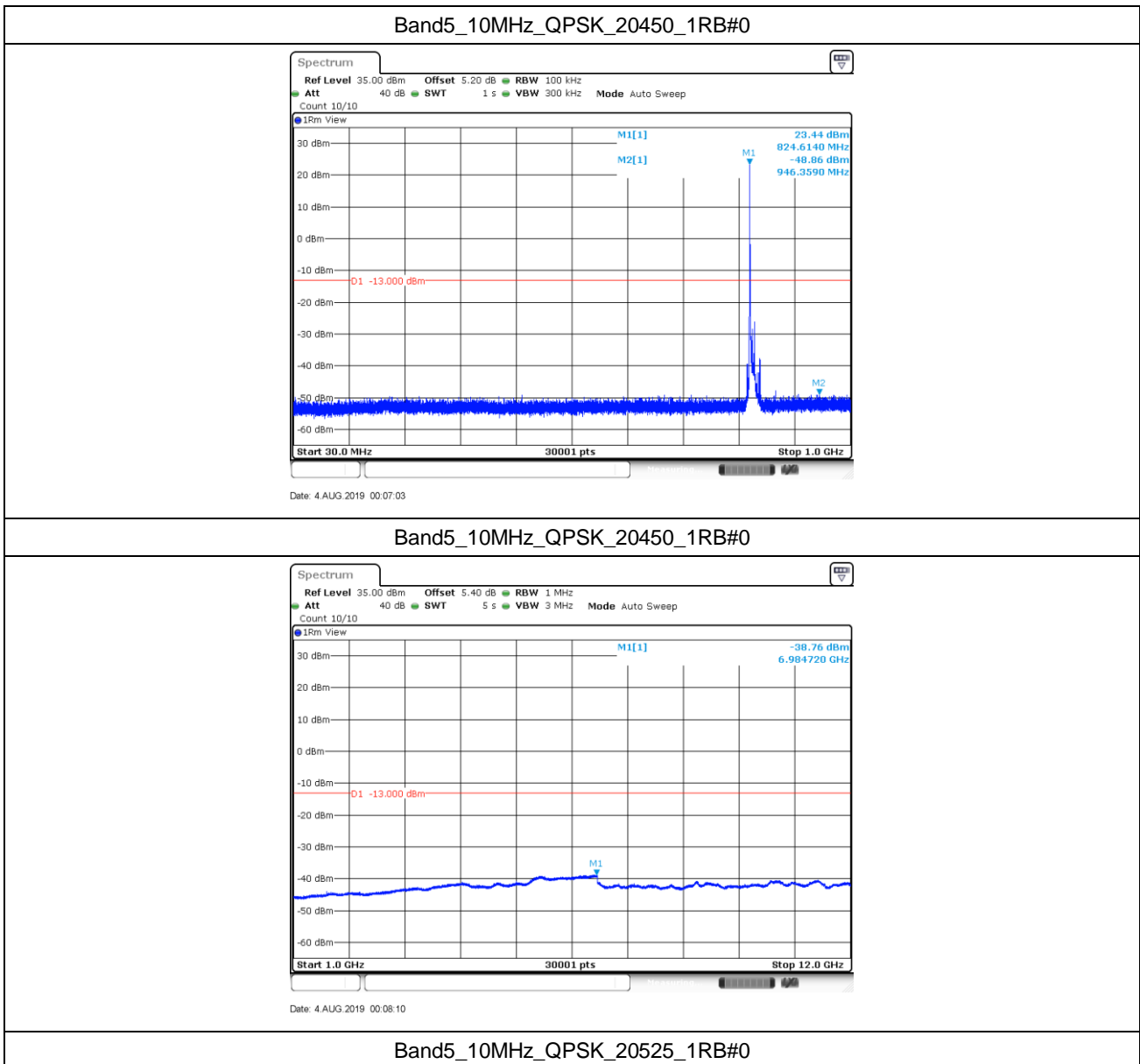
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6. Spurious Emission at Antenna Terminal

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

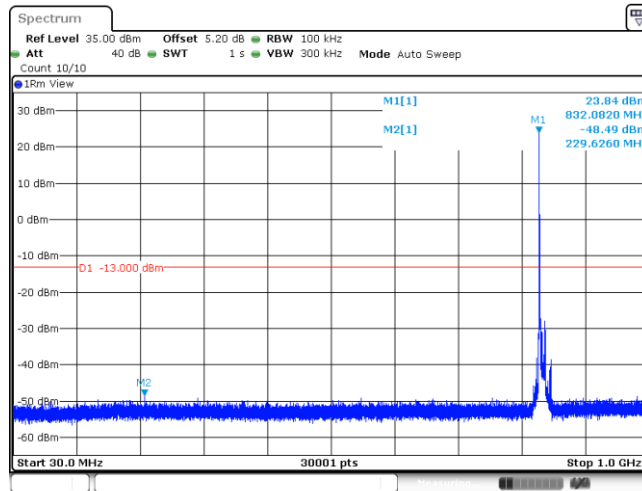
Remark2: only the worst case data displayed in this report.

6.1. Test Plots



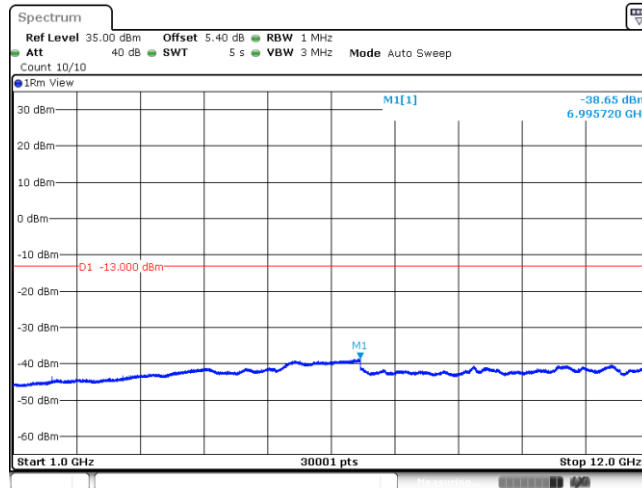
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Date: 4 AUG 2019 00:09:57

Band5_10MHz_QPSK_20525_1RB#0

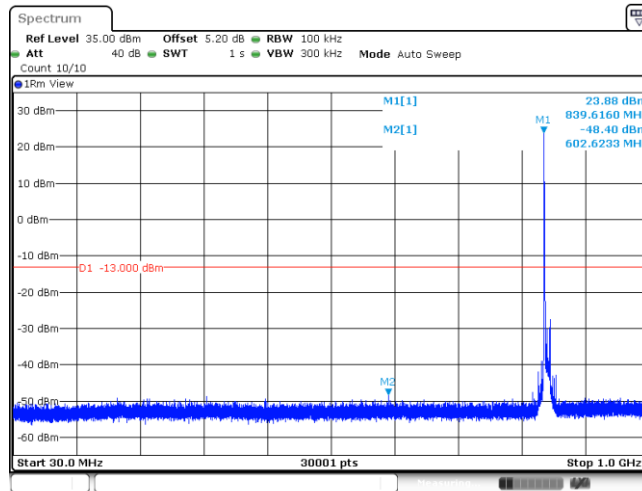


Date: 4 AUG 2019 00:11:05

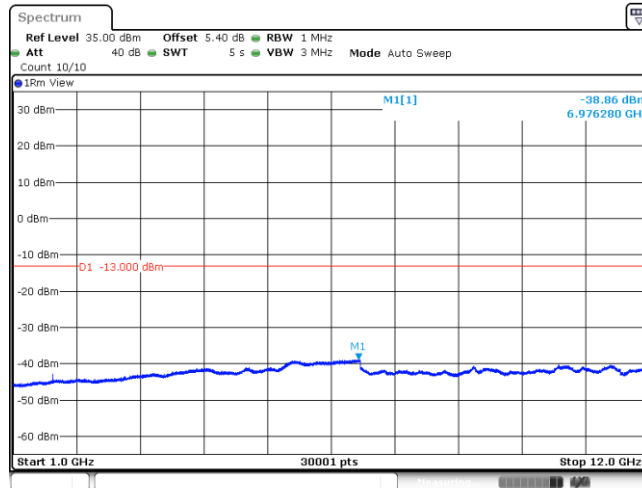
Band5_10MHz_QPSK_20600_1RB#0



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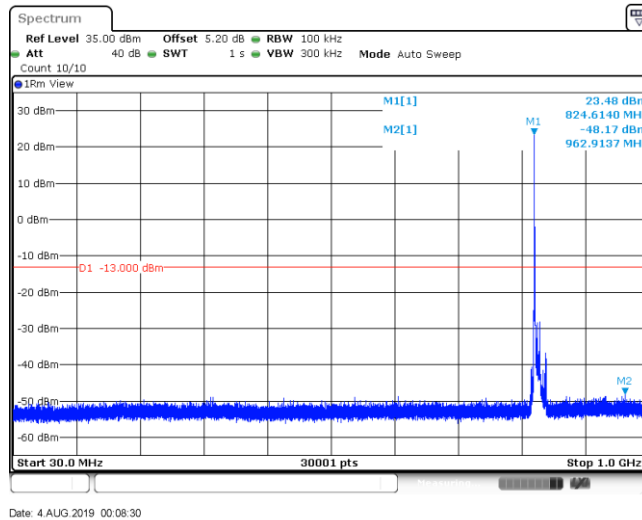
Band5_10MHz_QPSK_20600_1RB#0



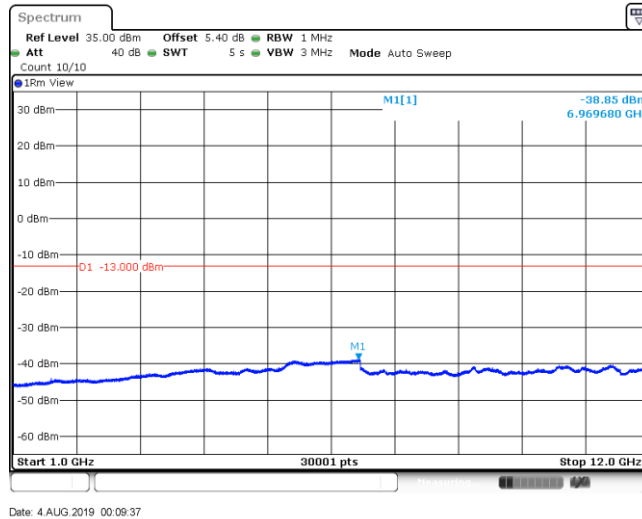
Band5_10MHz_16QAM_20450_1RB#0



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Band5_10MHz_16QAM_20450_1RB#0

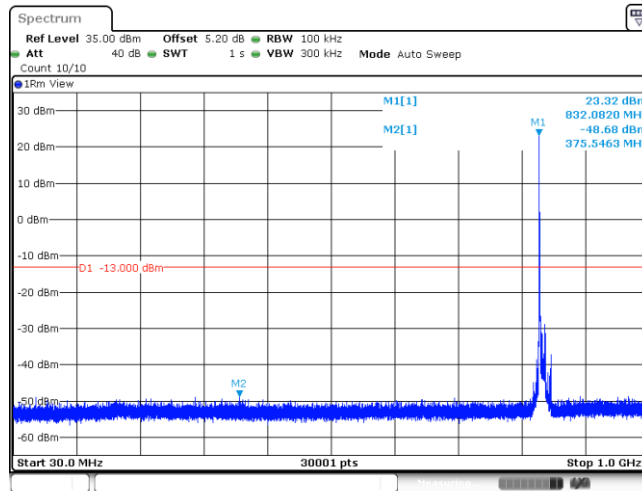


Band5_10MHz_16QAM_20525_1RB#0



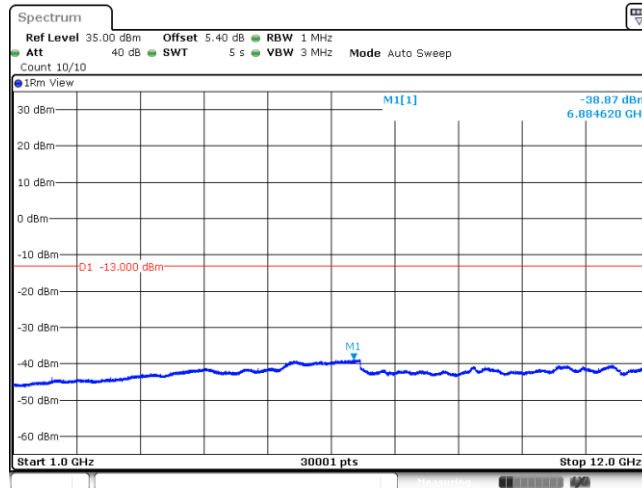
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Date: 4 AUG 2019 00:11:25

Band5_10MHz_16QAM_20525_1RB#0



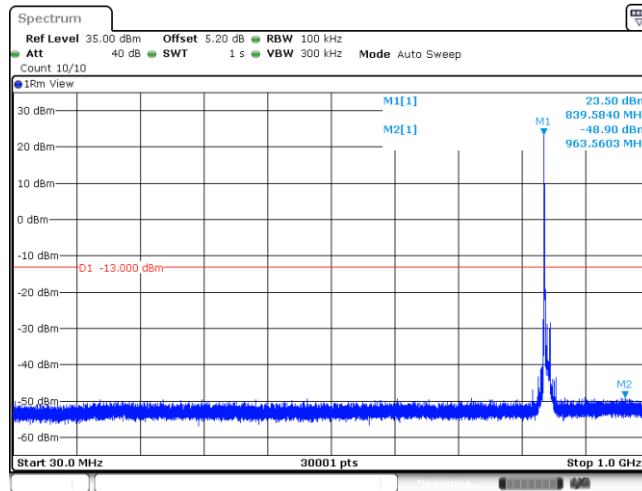
Date: 4 AUG 2019 00:12:32

Band5_10MHz_16QAM_20600_1RB#0



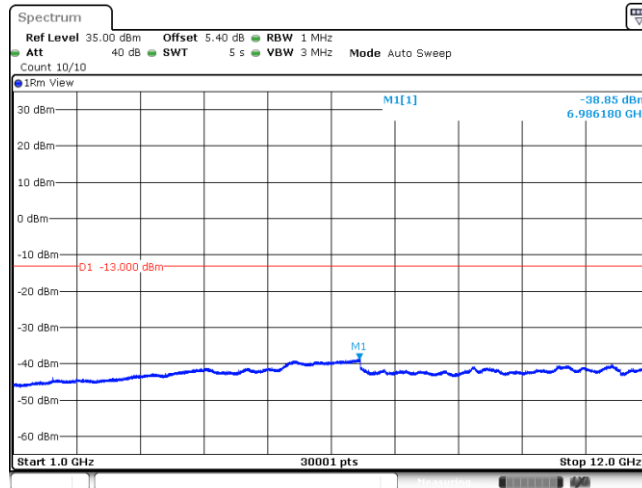
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Date: 4 AUG 2019 00:14:19

Band5_10MHz_16QAM_20600_1RB#0



Date: 4 AUG 2019 00:15:27



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7. Field Strength of Spurious Radiation

7.1. Test Band = LTE Band 5

7.1.1. Test Mode = LTE/TM1

7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
112.0176	-62.19	-13.00	49.19	Vertical
699.8185	-59.71	-13.00	46.71	Vertical
987.3409	-53.01	-13.00	40.01	Vertical
1664.1328	-55.18	-13.00	42.18	Vertical
3000.0000	-56.23	-13.00	43.23	Vertical
8830.1943	-51.31	-13.00	38.31	Vertical
41.9801	-62.97	-13.00	49.97	Horizontal
230.8970	-64.78	-13.00	51.78	Horizontal
999.2240	-52.91	-13.00	39.91	Horizontal
1664.1328	-55.02	-13.00	42.02	Horizontal
2998.7998	-56.27	-13.00	43.27	Horizontal
8792.1931	-51.45	-13.00	38.45	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
110.7080	-62.03	-13.00	49.03	Vertical
598.8364	-61.07	-13.00	48.07	Vertical
996.6533	-52.85	-13.00	39.85	Vertical
1649.3299	-53.40	-13.00	40.40	Vertical
2925.1850	-57.34	-13.00	44.34	Vertical
8585.1862	-51.09	-13.00	38.09	Vertical
43.8717	-63.11	-13.00	50.11	Horizontal
232.9826	-65.49	-13.00	52.49	Horizontal
665.9153	-60.76	-13.00	47.76	Horizontal
994.8587	-52.73	-13.00	39.73	Horizontal
1649.3299	-56.23	-13.00	43.23	Horizontal
8571.9857	-52.03	-13.00	39.03	Horizontal



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7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
110.6595	-62.74	-13.00	49.74	Vertical
685.0738	-60.21	-13.00	47.21	Vertical
995.4408	-53.15	-13.00	40.15	Vertical
1679.3359	-57.03	-13.00	44.03	Vertical
2518.7037	-56.42	-13.00	43.42	Vertical
8599.9867	-51.02	-13.00	38.02	Vertical
39.4580	-62.93	-13.00	49.93	Horizontal
239.9670	-65.70	-13.00	52.70	Horizontal
654.3232	-60.42	-13.00	47.42	Horizontal
1679.3359	-56.39	-13.00	43.39	Horizontal
2699.9400	-56.35	-13.00	43.35	Horizontal
8784.7928	-51.49	-13.00	38.49	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 had been displayed.



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8. Frequency Stability

8.1. Frequency Vs Voltage

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	-2.20	-0.002654	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	-3.60	-0.004343	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	-10.90	-0.013148	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-7.20	-0.008607	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-6.80	-0.008129	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-5.40	-0.006455	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	-5.50	-0.006517	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	-4.30	-0.005095	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	-5.60	-0.006635	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VL	NT	-3.50	-0.004222	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VN	NT	-4.00	-0.004825	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VH	NT	-6.80	-0.008203	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VL	NT	-3.30	-0.003945	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VN	NT	-11.30	-0.013509	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VH	NT	-2.70	-0.003228	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VL	NT	-8.30	-0.009834	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VN	NT	-4.20	-0.004976	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VH	NT	-4.50	-0.005332	±2.5	PASS

8.2. Frequency Vs Temperature

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	-5.00	-0.006031	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	-4.80	-0.005790	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	-7.40	-0.008926	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	-9.30	-0.011218	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	-5.50	-0.006634	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	-10.10	-0.012183	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	-6.00	-0.007238	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	-2.50	-0.003016	±2.5	PASS



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Band5	10MHz	QPSK	20525	50RB#0	NV	-30	-9.30	-0.011118	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-4.60	-0.005499	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-7.20	-0.008607	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-5.90	-0.007053	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-4.70	-0.005619	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-6.70	-0.008010	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-2.90	-0.003467	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-9.40	-0.011237	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	-5.90	-0.006991	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	-8.80	-0.010427	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	-9.30	-0.011019	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	-10.30	-0.012204	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	-10.00	-0.011848	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	-5.80	-0.006872	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	-7.10	-0.008412	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	-6.50	-0.007701	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-30	-0.50	-0.000603	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-20	-2.90	-0.003498	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	0	-1.20	-0.001448	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	10	-2.90	-0.003498	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	20	-2.50	-0.003016	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	30	-0.70	-0.000844	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	40	-13.00	-0.015682	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	50	-13.30	-0.016043	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-30	-2.90	-0.003467	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-20	-1.70	-0.002032	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	0	-2.00	-0.002391	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	10	-2.60	-0.003108	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	20	-8.20	-0.009803	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	30	-12.00	-0.014345	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	40	-8.70	-0.010400	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	50	-8.00	-0.009564	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-30	-1.20	-0.001422	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-20	-8.50	-0.010071	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	0	-4.00	-0.004739	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	10	-3.00	-0.003555	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	20	-6.70	-0.007938	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	30	-4.40	-0.005213	±2.5	PASS



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Band5	10MHz	16QAM	20600	50RB#0	NV	40	-1.60	-0.001896	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	50	-8.00	-0.009479	±2.5	PASS

The End



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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.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