



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	23.23	17.08	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.44	17.29	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.32	17.17	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.33	17.18	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	23.36	17.21	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.41	17.26	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.38	16.23	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.43	17.28	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.65	17.50	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.44	17.29	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.39	17.24	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	23.54	17.39	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.56	17.41	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.44	16.29	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.24	17.09	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.51	17.36	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.28	17.13	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.36	17.21	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	23.49	17.34	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	23.32	17.17	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.45	16.30	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.46	16.31	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.46	16.31	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.37	16.22	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	22.27	16.12	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	22.42	16.27	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	22.36	16.21	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.31	15.16	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.12	15.97	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.46	16.31	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.39	16.24	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	22.32	16.17	38.45	PASS



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Band5	1.4MHz	16QAM	20525	3RB#1	22.53	16.38	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	22.48	16.33	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.33	15.18	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.18	16.03	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.52	16.37	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.10	15.95	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	22.18	16.03	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	22.65	16.50	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	22.23	16.08	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.45	15.30	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.33	17.18	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.53	17.38	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.15	17.00	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.49	16.34	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#4	22.40	16.25	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#7	22.40	16.25	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.36	16.21	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.35	17.20	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.63	17.48	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.33	17.18	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#0	22.44	16.29	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#4	22.55	16.40	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#7	22.56	16.41	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.46	16.31	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.21	17.06	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.49	17.34	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.30	17.15	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#0	22.38	16.23	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#4	22.33	16.18	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#7	22.51	16.36	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.30	16.15	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.23	16.08	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.27	16.12	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	21.96	15.81	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#0	21.37	15.22	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#4	21.29	15.14	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.31	15.16	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.18	15.03	38.45	PASS



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Band5	3MHz	16QAM	20525	1RB#0	22.38	16.23	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.38	16.23	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.22	16.07	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#0	21.23	15.08	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#4	21.41	15.26	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#7	21.38	15.23	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.34	15.19	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.08	15.93	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.30	16.15	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.00	15.85	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#0	21.37	15.22	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#4	21.29	15.14	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#7	21.25	15.10	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.26	15.11	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.32	17.17	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.59	17.44	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.20	17.05	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#0	22.51	16.36	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#6	22.39	16.24	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.25	16.10	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.38	16.23	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.31	17.16	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.80	17.65	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.38	17.23	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#0	22.45	16.30	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#6	22.58	16.43	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.45	16.30	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.31	16.16	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.24	17.09	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.43	17.28	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.44	17.29	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.49	16.34	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#6	22.38	16.23	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.34	16.19	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.50	16.35	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.24	16.09	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.47	16.32	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.10	15.95	38.45	PASS



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Band5	5MHz	16QAM	20425	12RB#0	21.47	15.32	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#6	21.30	15.15	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#13	21.18	15.03	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.24	15.09	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.04	15.89	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.74	16.59	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.14	15.99	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#0	21.19	15.04	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#6	21.54	15.39	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#13	21.23	15.08	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.44	15.29	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	21.94	15.79	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.05	15.90	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.27	16.12	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#0	21.39	15.24	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.19	15.04	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#13	21.20	15.05	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.39	15.24	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.40	17.25	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.77	17.62	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.04	16.89	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.57	16.42	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#12	22.39	16.24	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.22	16.07	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.54	16.39	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.27	17.12	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	24.05	17.90	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.19	17.04	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.43	16.28	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#12	22.46	16.31	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.32	16.17	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.31	16.16	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.24	17.09	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.85	17.70	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	22.92	16.77	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.61	16.46	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#12	22.47	16.32	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.28	16.13	38.45	PASS



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Band5	10MHz	QPSK	20600	50RB#0	22.38	16.23	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.36	16.21	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.31	16.16	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.19	16.04	38.45	PASS
Band5	10MHz	16QAM	20450	27RB#0	21.26	15.11	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	21.99	15.84	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.55	16.40	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.11	15.96	38.45	PASS
Band5	10MHz	16QAM	20525	27RB#0	21.53	15.38	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	21.93	15.78	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.07	15.92	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.27	16.12	38.45	PASS
Band5	10MHz	16QAM	20600	27RB#0	21.32	15.17	38.45	PASS

Remark:

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

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

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



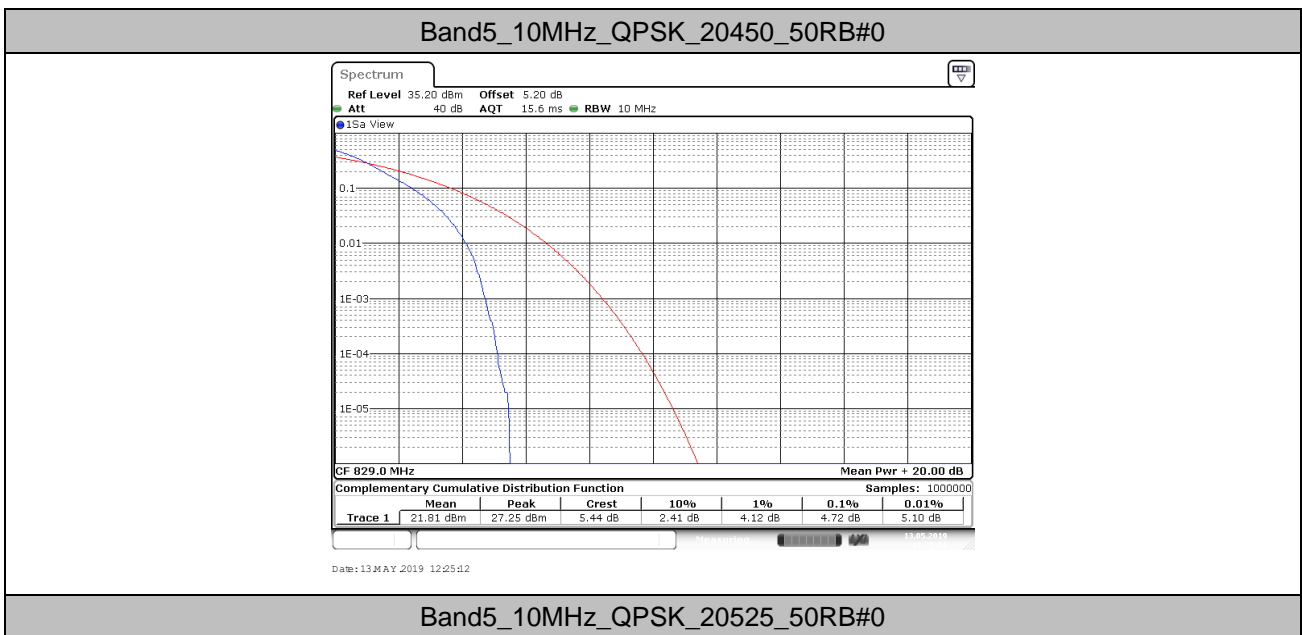
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2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

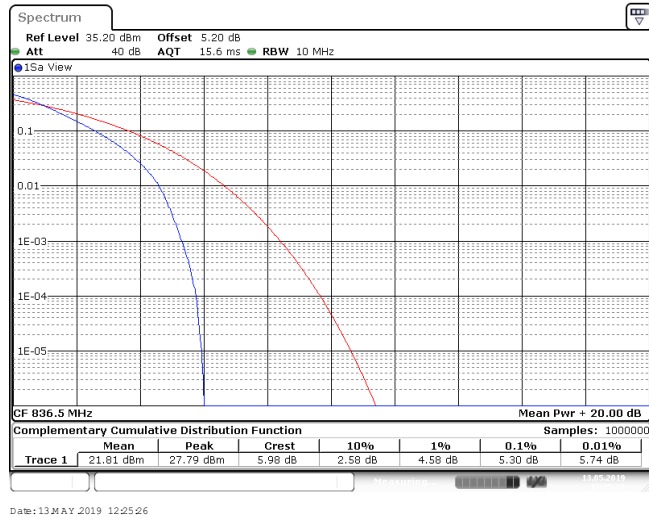
BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	4.72	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.30	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	4.67	13	PASS
Band5	10MHz	16QAM	20450	27RB#0	6.00	13	PASS
Band5	10MHz	16QAM	20525	27RB#0	6.03	13	PASS
Band5	10MHz	16QAM	20600	27RB#0	6.35	13	PASS

2.2. Test Plots



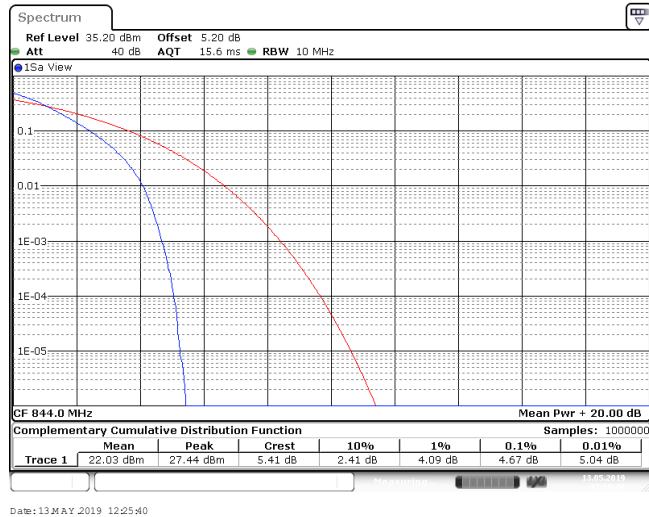
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Date: 13 MAY 2019 12:25:26

Band5_10MHz_QPSK_20600_50RB#



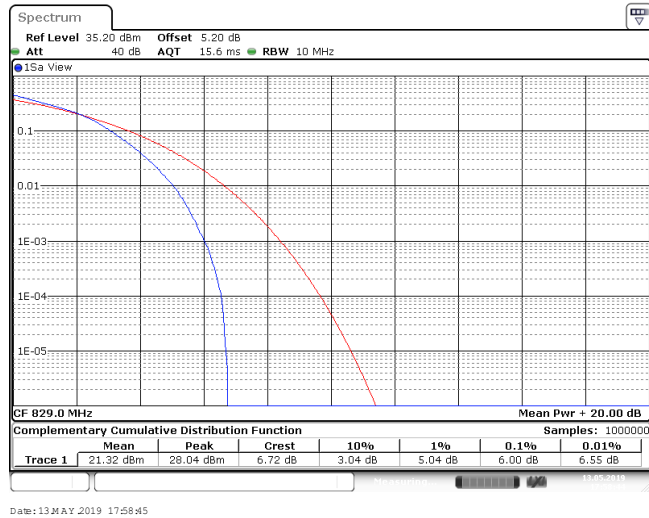
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Band5_10MHz_16QAM_20450_27RB#



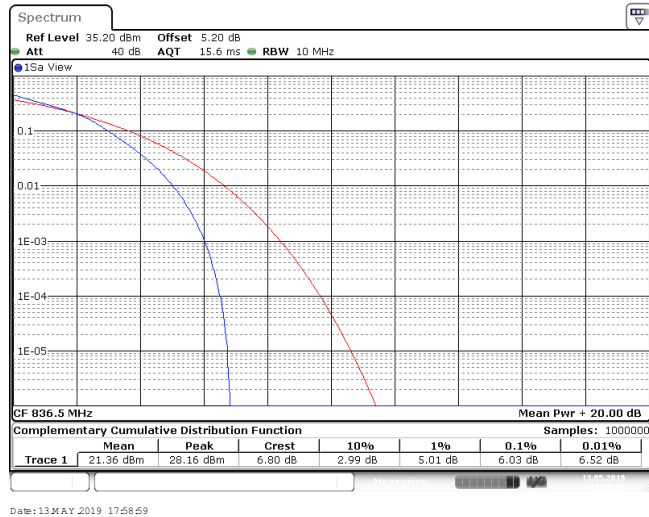
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Date: 13 MAY 2019 17:58:45

Band5_10MHz_16QAM_20525_27RB#0



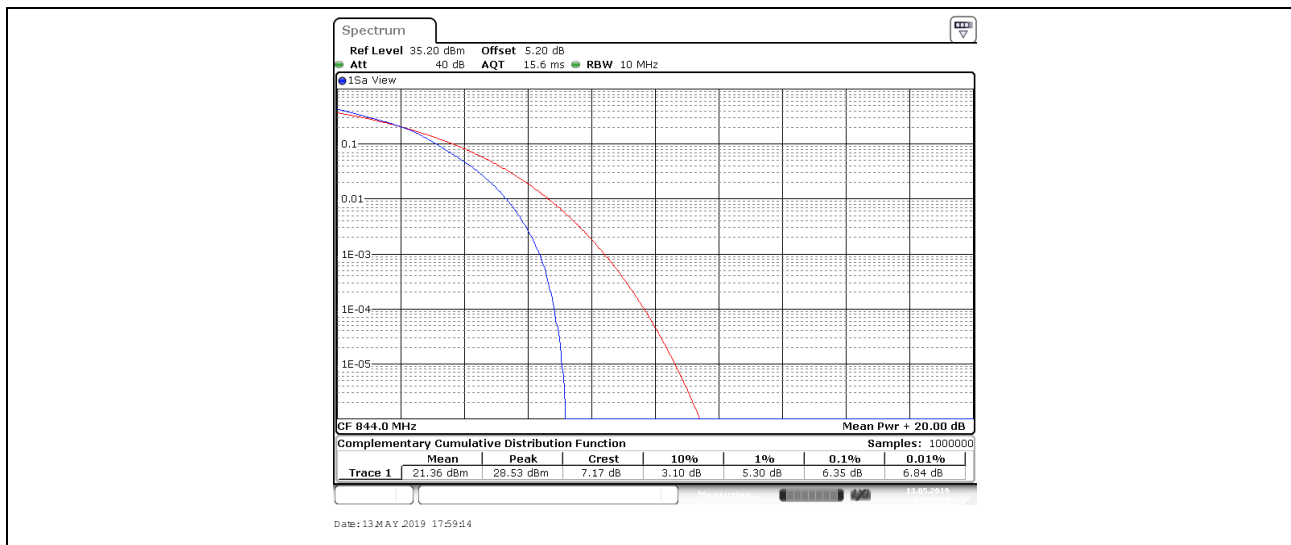
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Band5_10MHz_16QAM_20600_27RB#0



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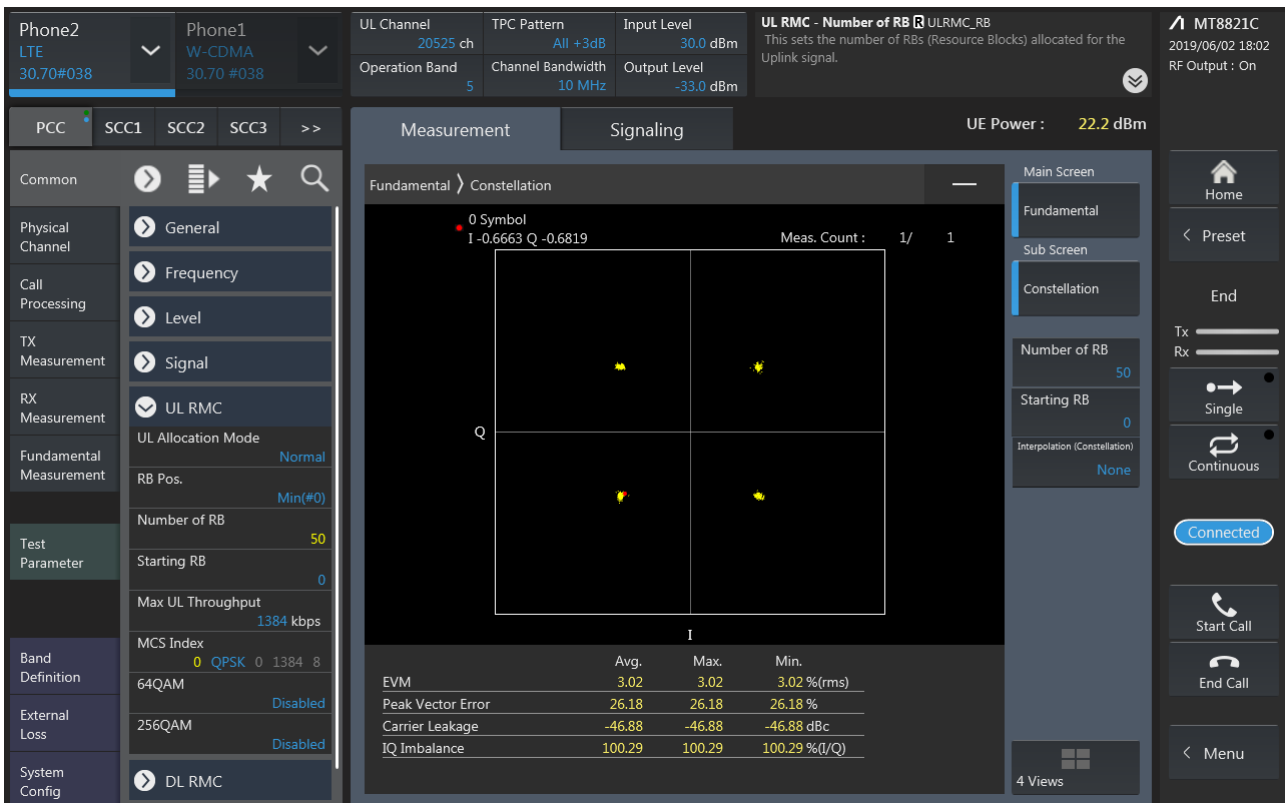
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3. Modulation Characteristics

3.1. Test BAND = LTE Band 5

3.2. Test Mode = LTE /TM1 10MHz

3.2.1. Test Channel = MCH

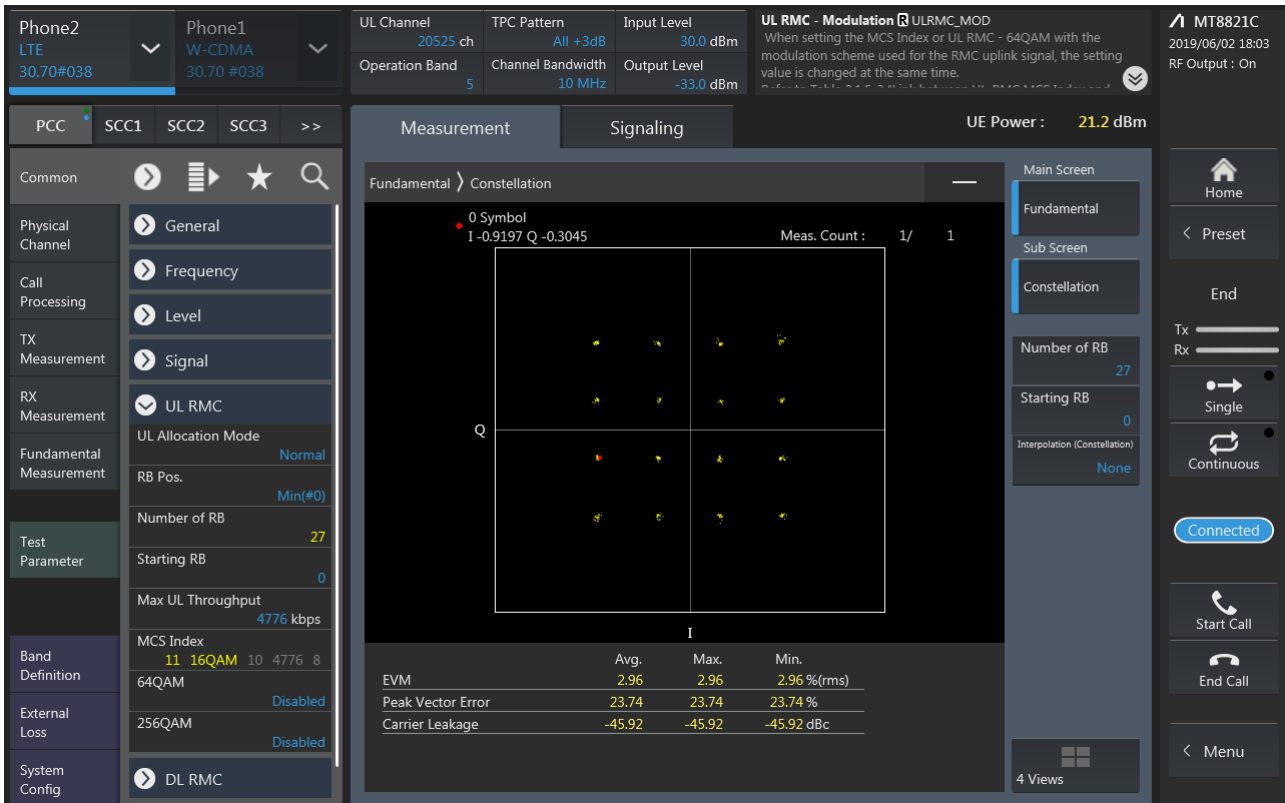


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3.3. Test Mode = LTE /TM2 10MHz

3.3.1. Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

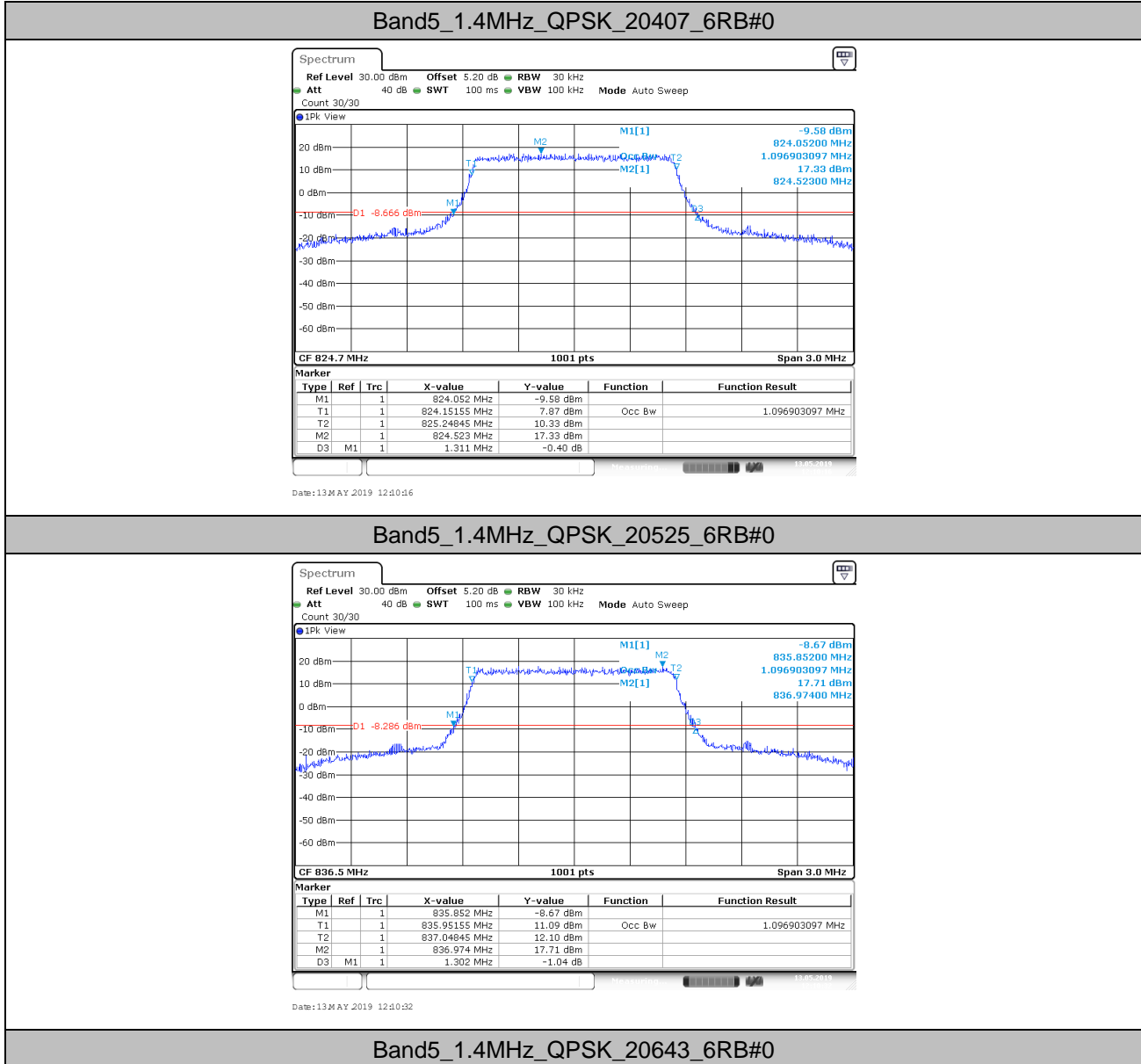
BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.097	1.311	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.097	1.302	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.097	1.293	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.097	1.338	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.097	1.311	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.094	1.308	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.697	2.982	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.697	3.000	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.697	2.994	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.697	2.976	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.697	2.994	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.697	2.994	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.476	4.880	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.476	4.890	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.476	4.910	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.476	4.880	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.476	4.890	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.476	4.910	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.931	9.700	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.931	9.700	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.911	9.680	PASS
Band5	10MHz	16QAM	20450	27RB#0	4.855	5.680	PASS
Band5	10MHz	16QAM	20525	27RB#0	4.855	5.700	PASS
Band5	10MHz	16QAM	20600	27RB#0	4.855	5.660	PASS



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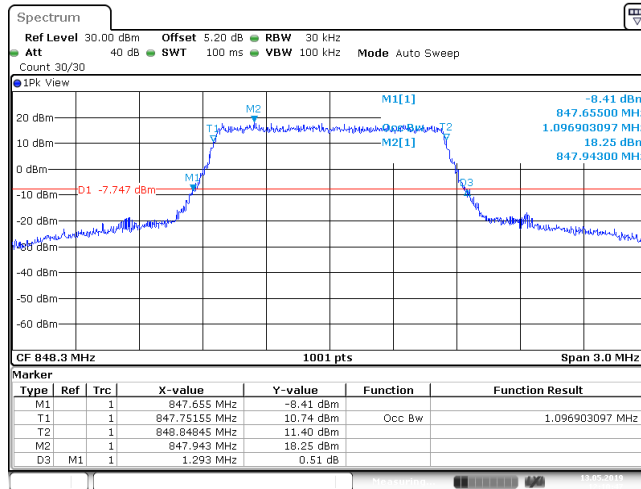
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4.2. Test Plots



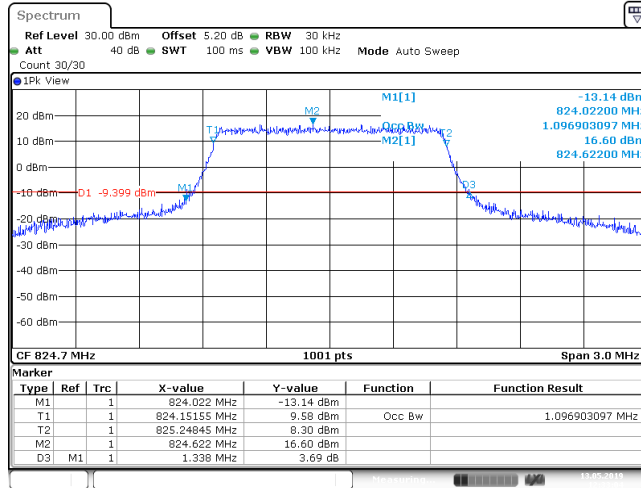
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Date: 13 MAY 2019 12:10:48

Band5_1.4MHz_16QAM_20407_6RB#0

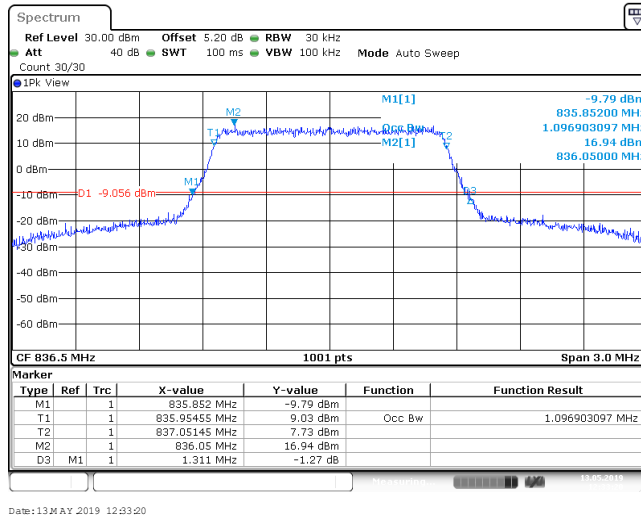


Date: 13 MAY 2019 12:53:04

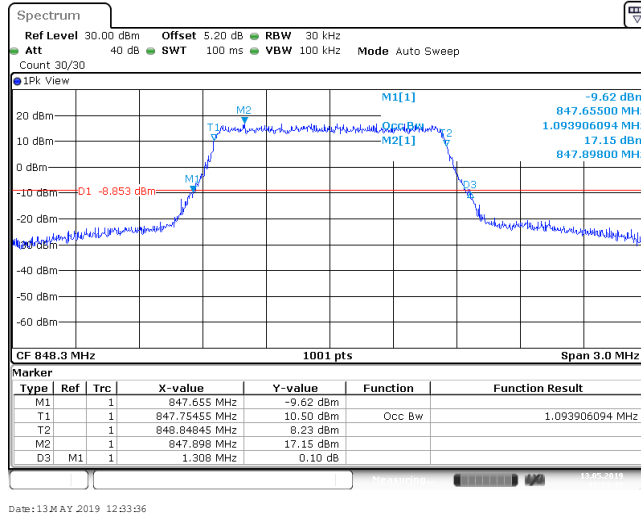
Band5_1.4MHz_16QAM_20525_6RB#0



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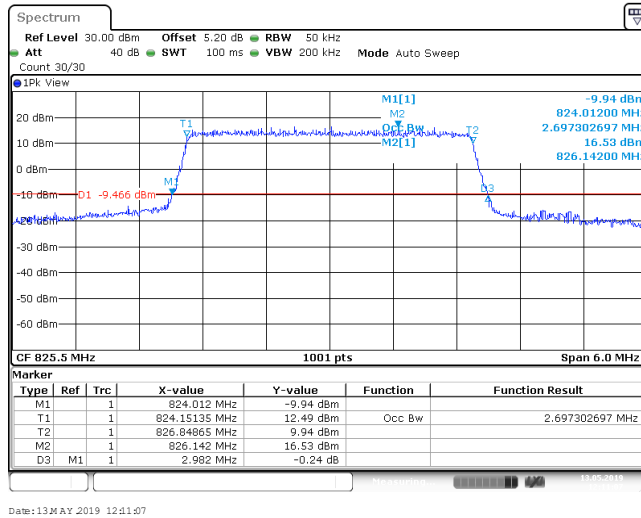
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Band5_3MHz_QPSK_20415_15RB#0

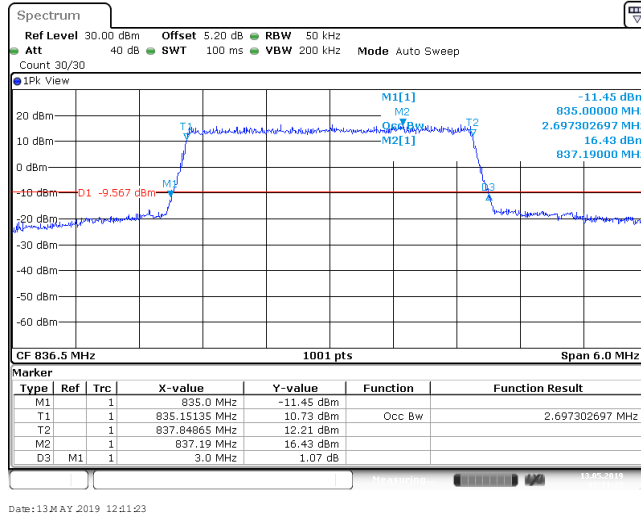


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Date: 13 MAY 2019 12:41:07

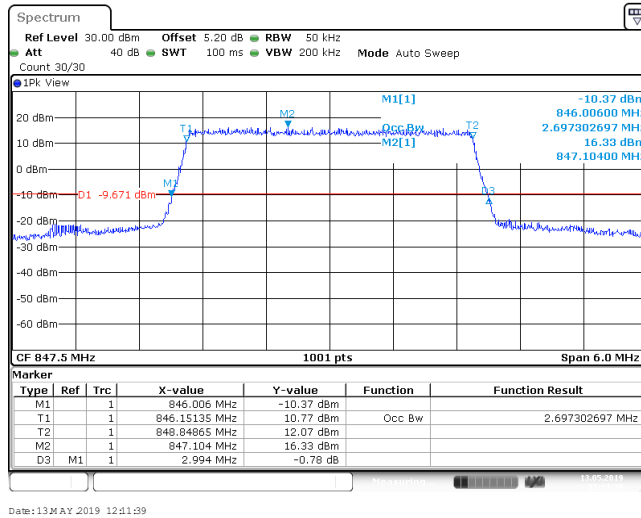
Band5_3MHz_QPSK_20525_15RB#0



Date: 13 MAY 2019 12:41:23

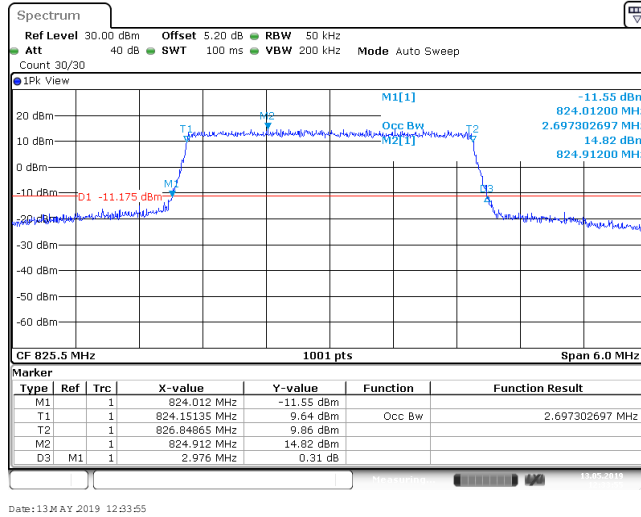
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Date: 13 MAY 2019 12:41:59

Band5_3MHz_16QAM_20415_15RB#0

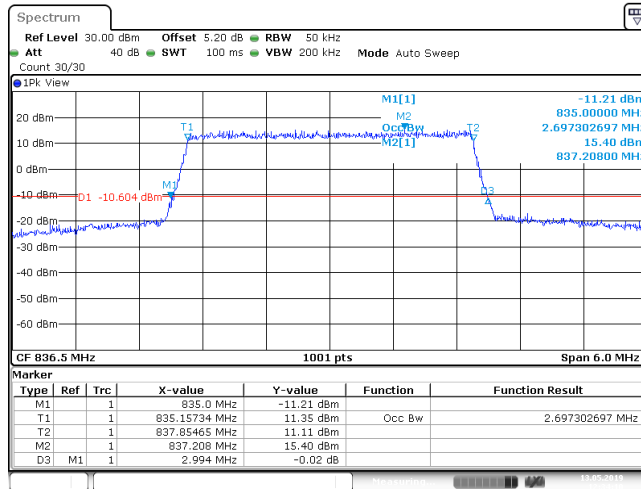


Date: 13 MAY 2019 12:53:55

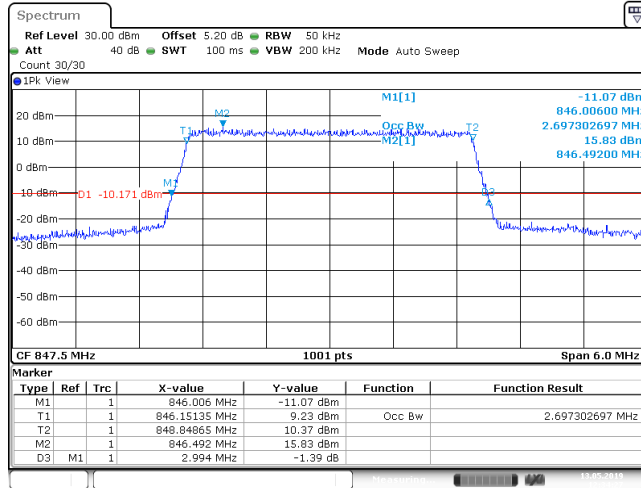
Band5_3MHz_16QAM_20525_15RB#0



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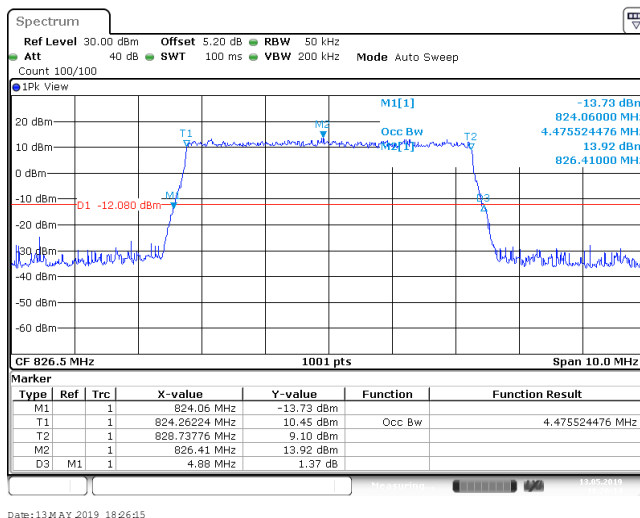
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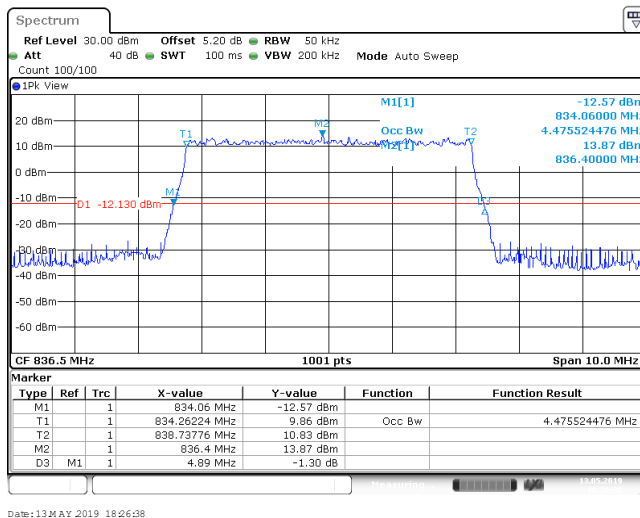
Band5_5MHz_QPSK_20425_25RB#0



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Band5_5MHz_QPSK_20525_25RB#0



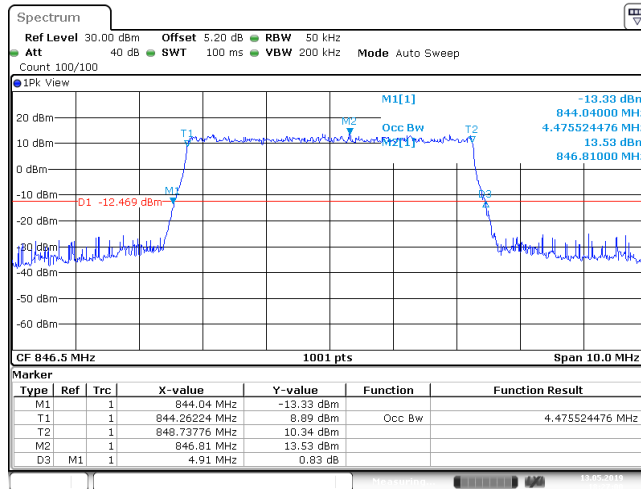
Band5_5MHz_QPSK_20625_25RB#0



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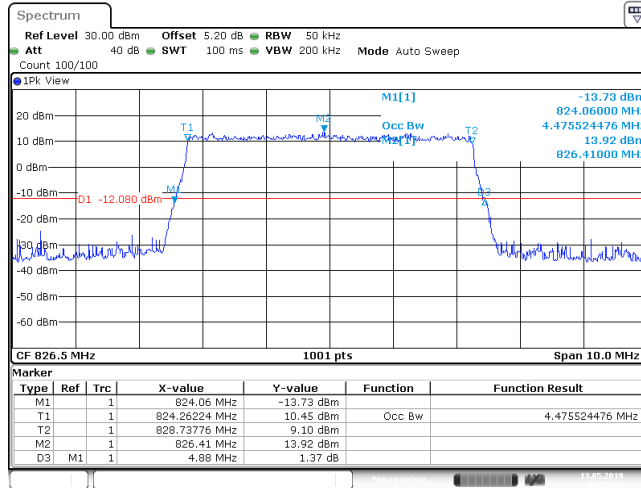
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Band5_5MHz_16QAM_20425_25RB#0

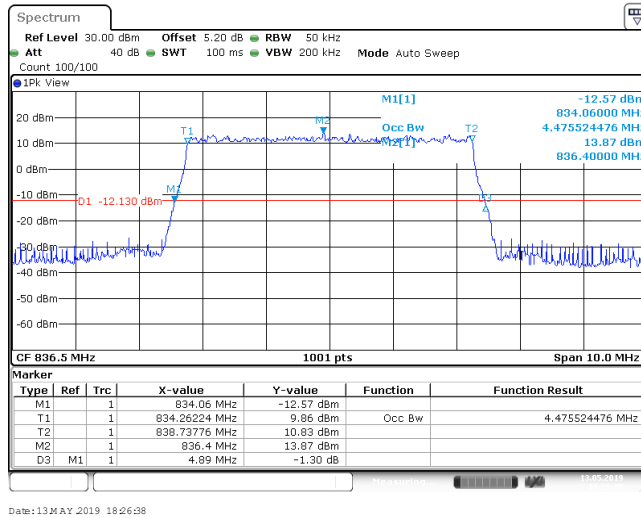


Date: 13 MAY 2019 18:26:15

Band5_5MHz_16QAM_20525_25RB#0

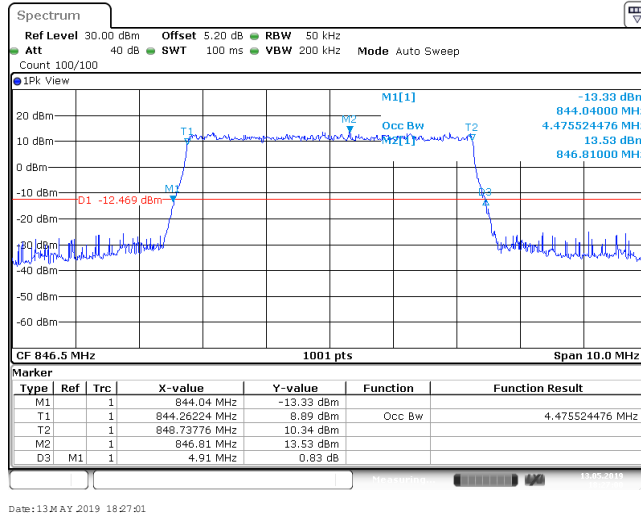


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Date: 13 MAY 2019 18:26:08

Band5_5MHz_16QAM_20625_25RB#0

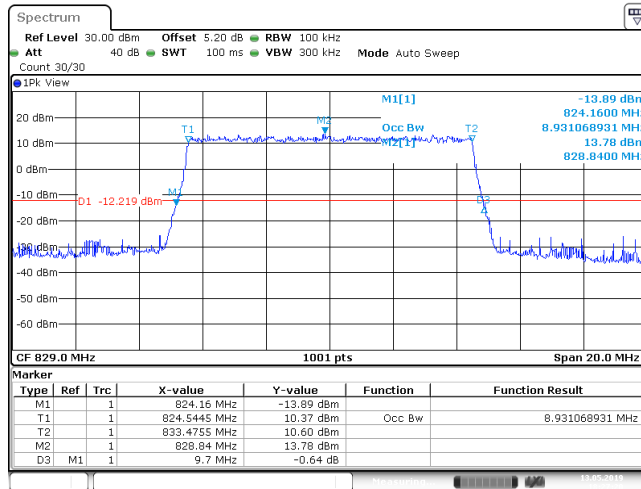


Date: 13 MAY 2019 18:27:01

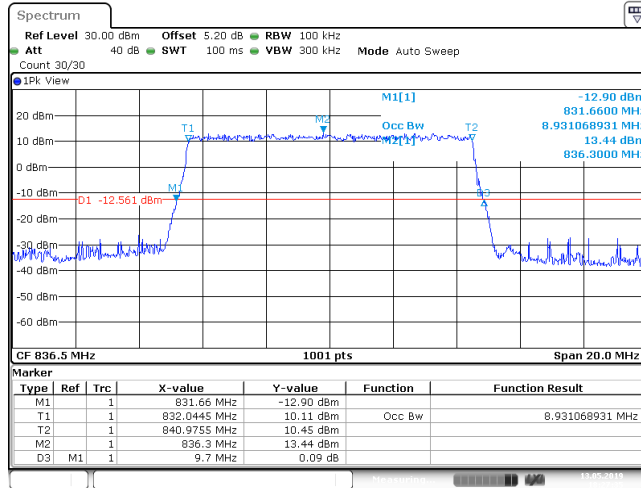
Band5_10MHz_QPSK_20450_50RB#0



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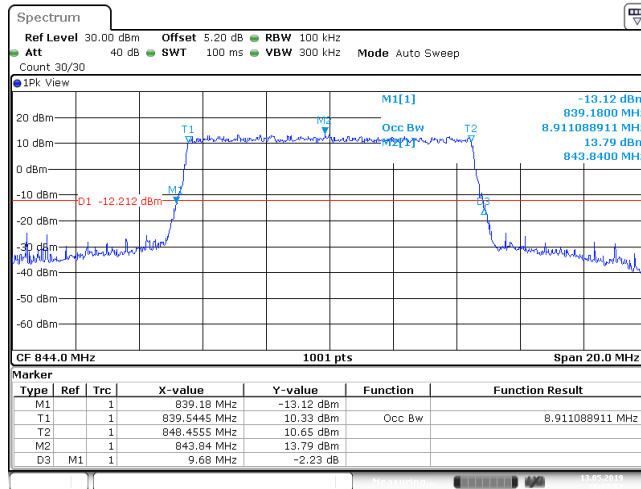
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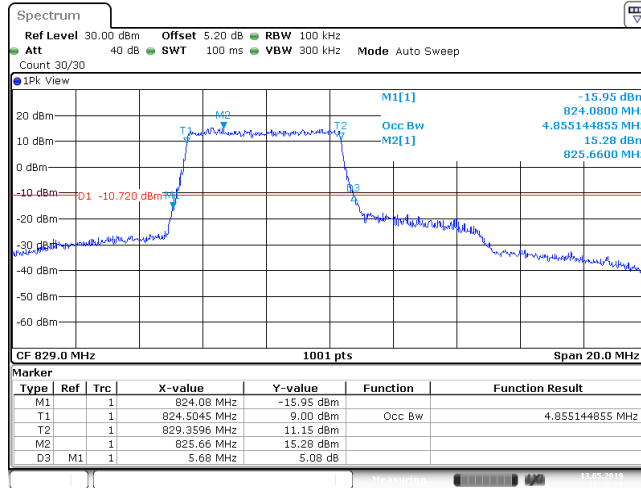
Band5_10MHz_QPSK_20600_50RB#0



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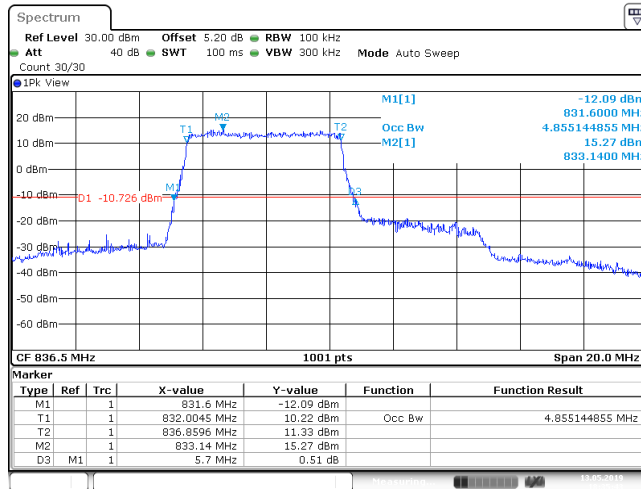
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Band5_10MHz_16QAM_20525_27RB#

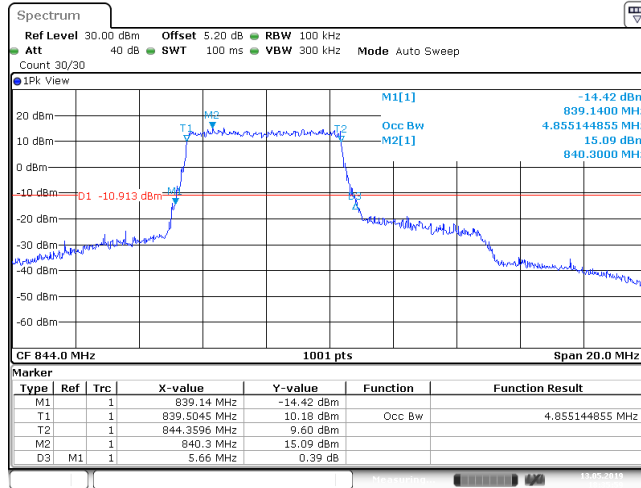


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Date: 13 MAY 2019 18:35:44

Band5_10MHz_16QAM_20600_27RB#0



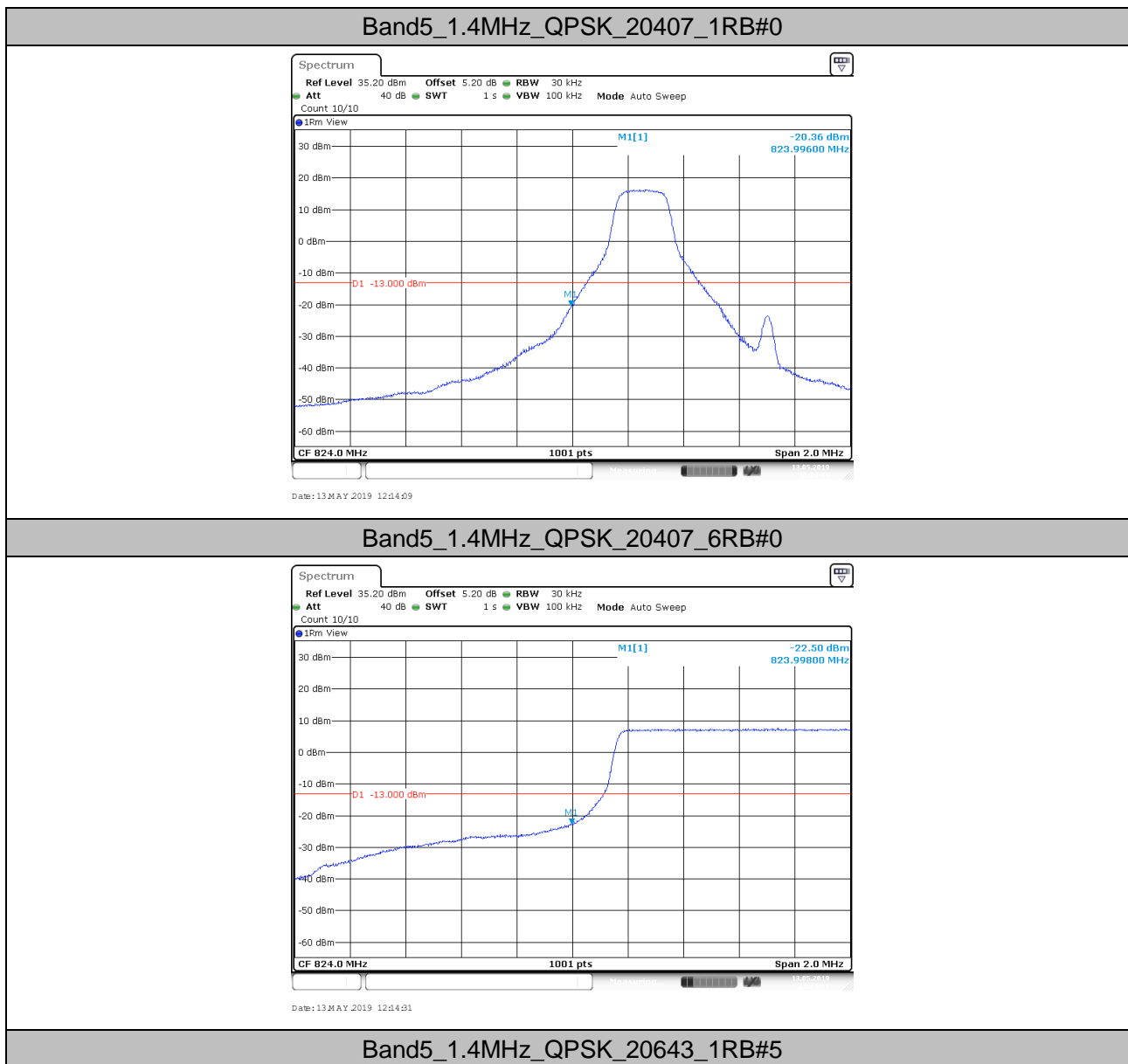
Date: 13 MAY 2019 18:36:00



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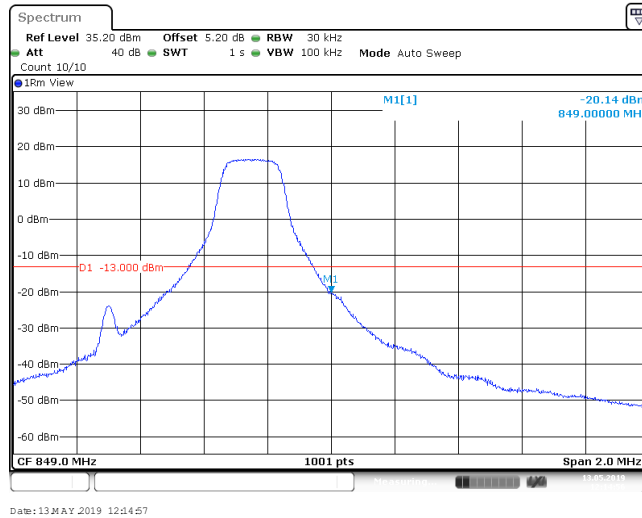
5. Band Edge Compliance

5.1. Test Plots

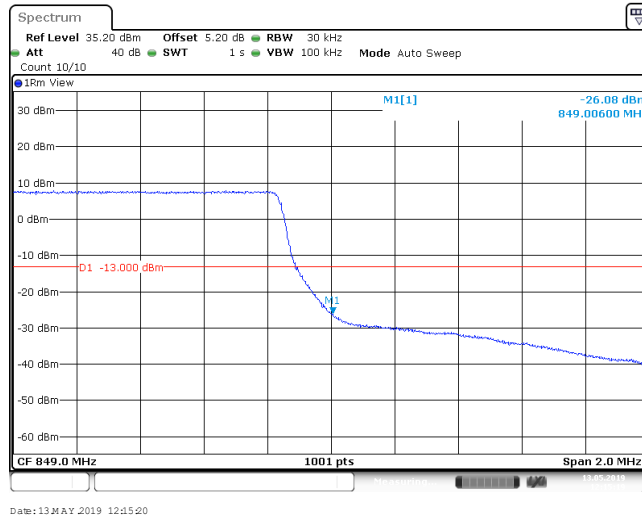


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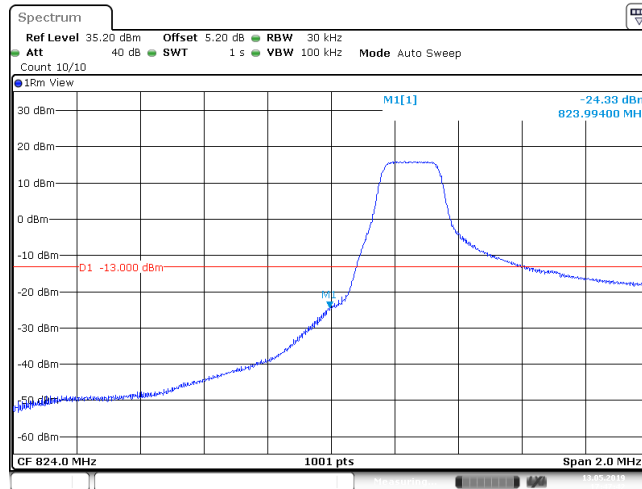
Band5_1.4MHz_QPSK_20643_6RB#0



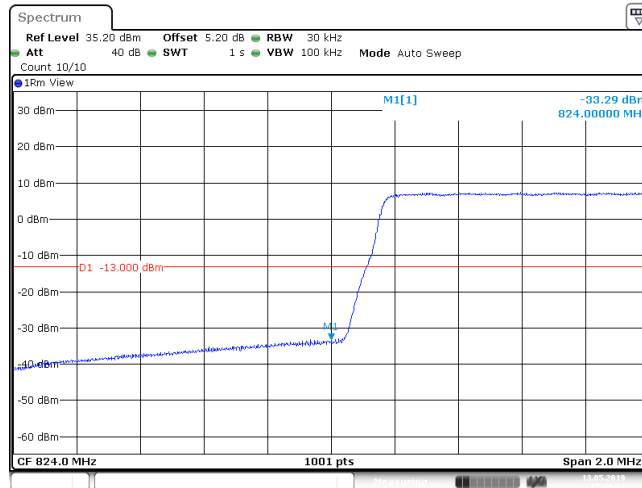
Band5_1.4MHz_16QAM_20407_1RB#0



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Band5_1.4MHz_16QAM_20407_6RB#0

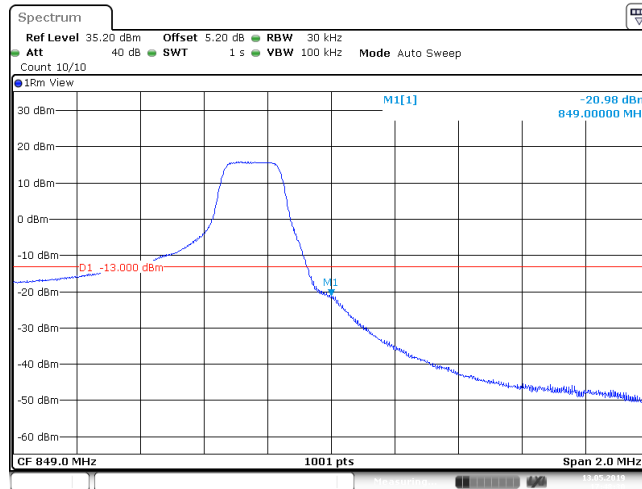


Band5_1.4MHz_16QAM_20643_1RB#5



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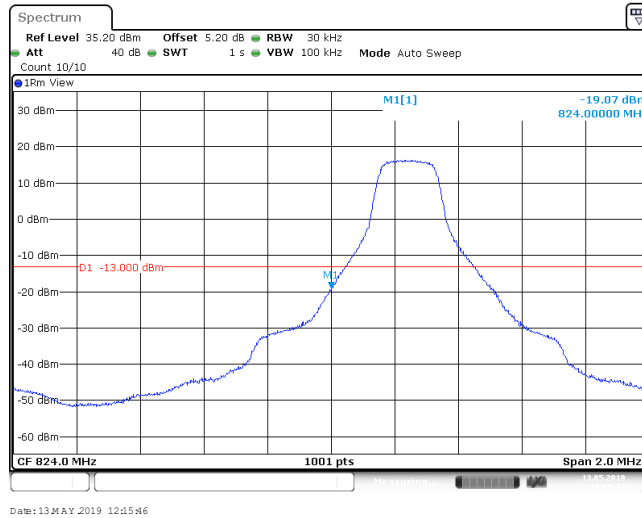
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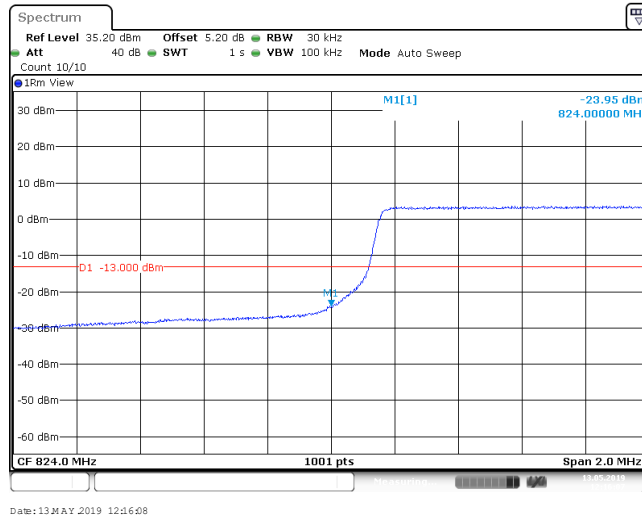
Band5_3MHz_QPSK_20415_1RB#0



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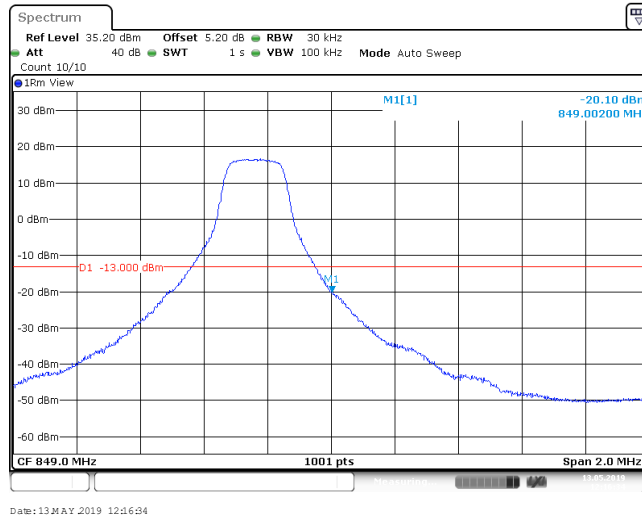
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Band5_3MHz_QPSK_20635_1RB#14

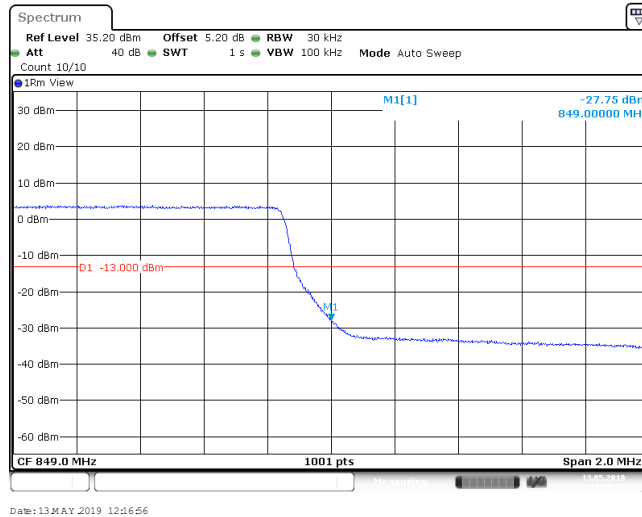


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Date: 13 MAY 2019 12:16:34

Band5_3MHz_QPSK_20635_15RB#0

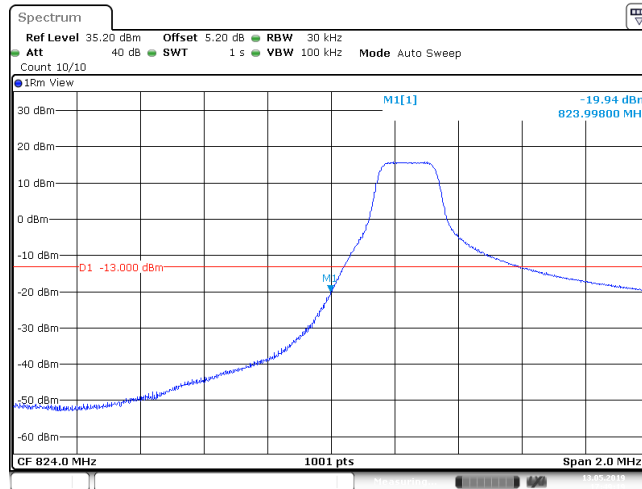


Date: 13 MAY 2019 12:16:56

Band5_3MHz_16QAM_20415_1RB#0

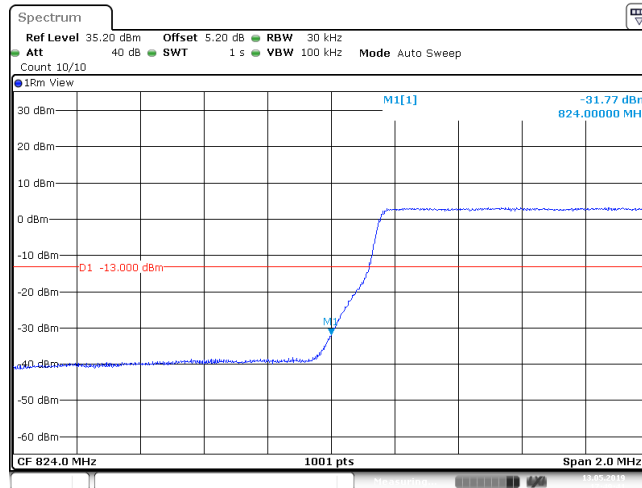


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Date: 13 MAY 2019 17:49:09

Band5_3MHz_16QAM_20415_15RB#0

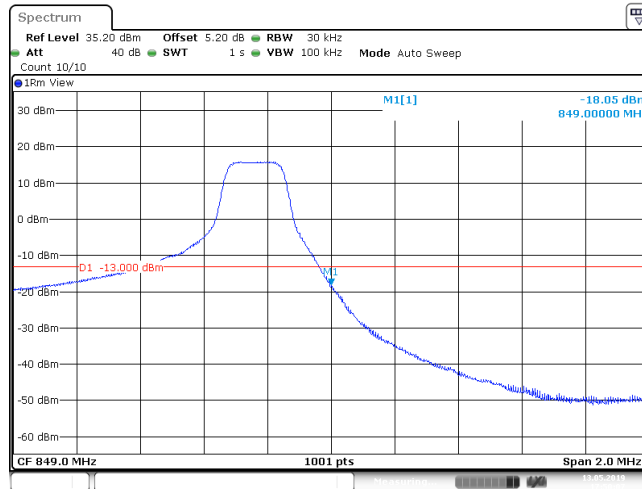


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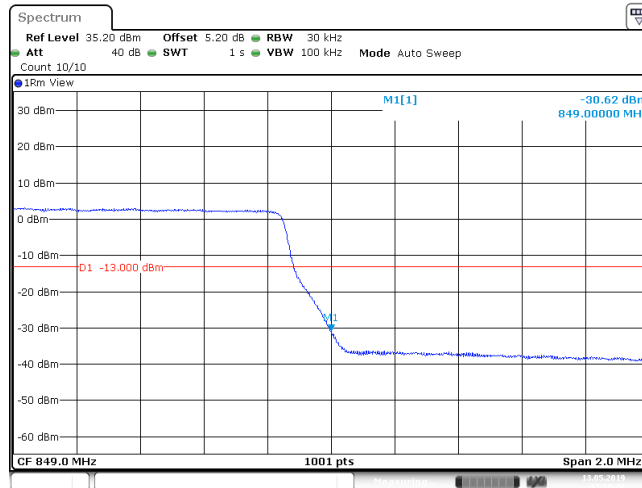
Band5_3MHz_16QAM_20635_1RB#14



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Band5_3MHz_16QAM_20635_15RB#0

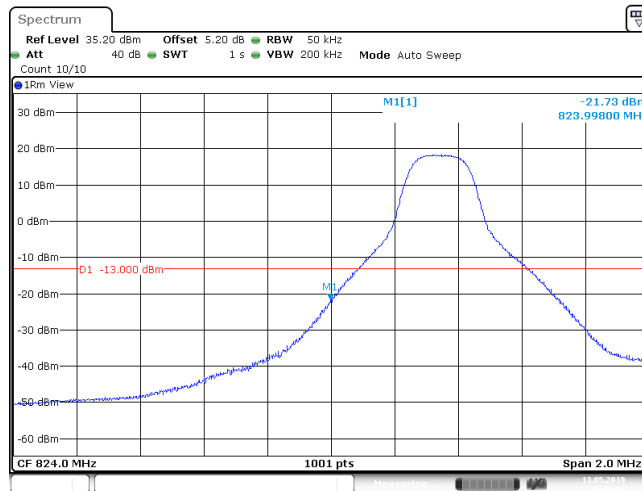


Band5_5MHz_QPSK_20425_1RB#0



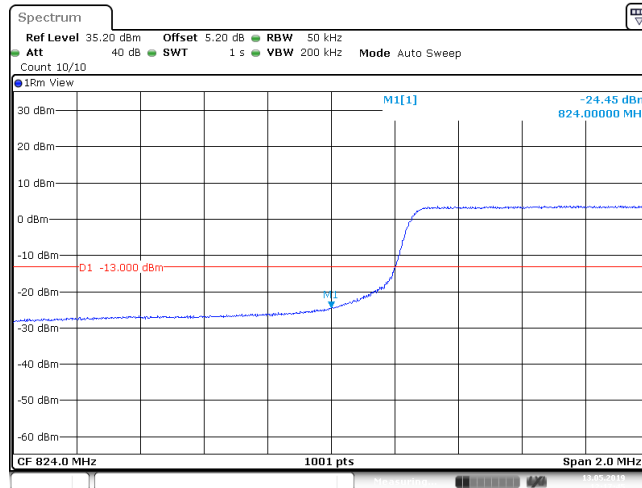
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Band5_5MHz_QPSK_20425_25RB#0

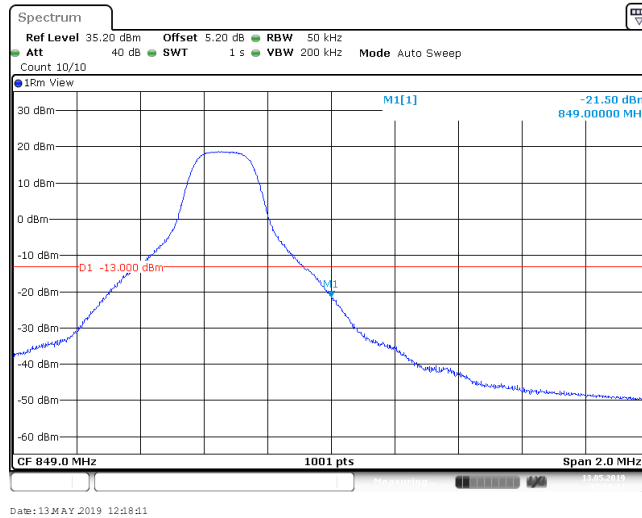


Date: 13 MAY 2019 12:17:45

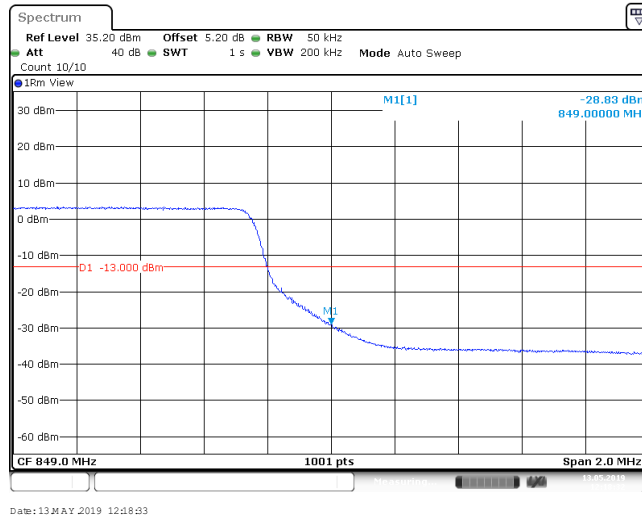
Band5_5MHz_QPSK_20625_1RB#24



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Band5_5MHz_QPSK_20625_25RB#0

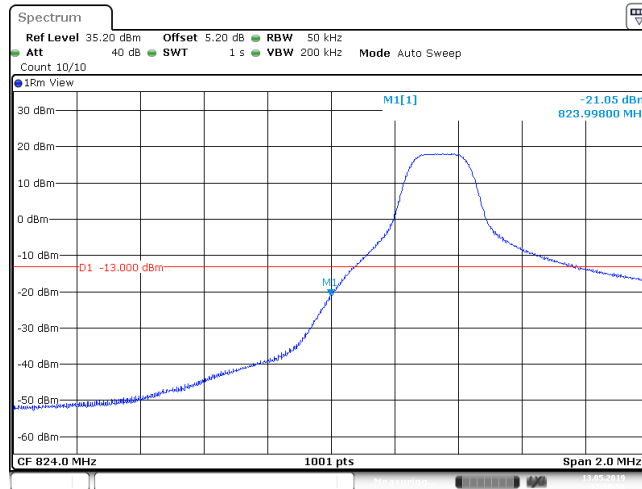


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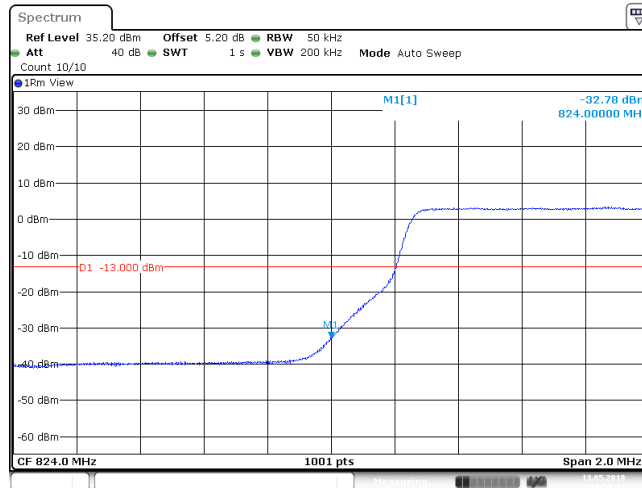
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Band5_5MHz_16QAM_20425_25RB#0

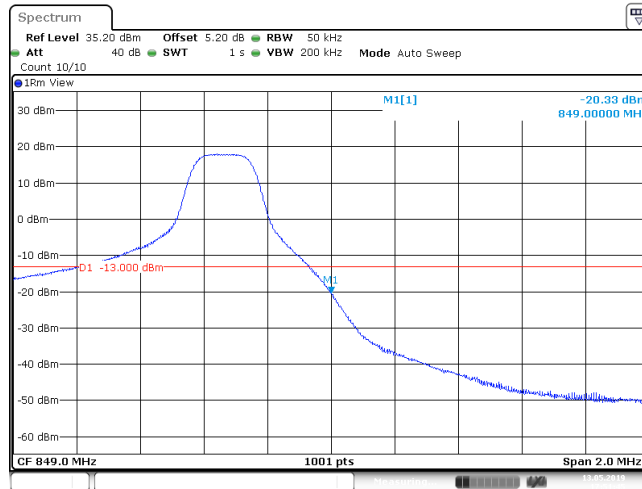


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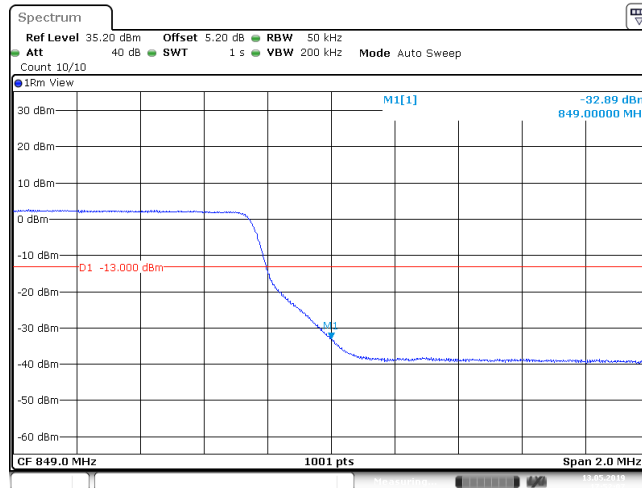
Band5_5MHz_16QAM_20625_1RB#24



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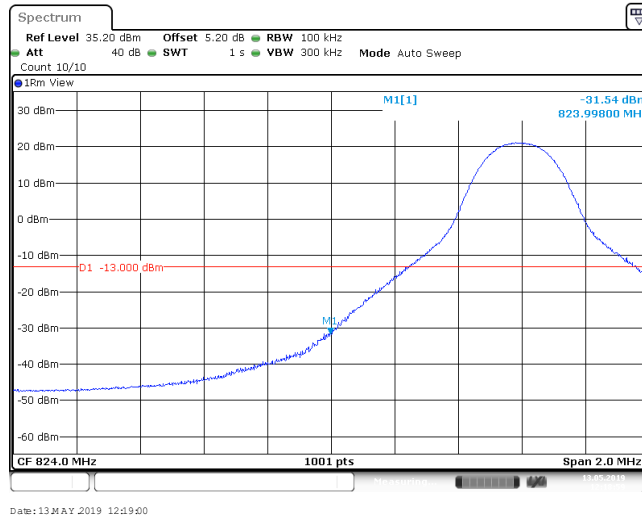


Band5_10MHz_QPSK_20450_1RB#0

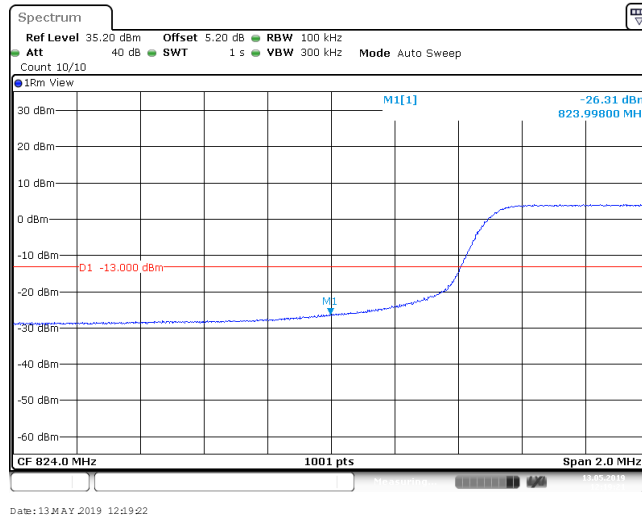


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Band5_10MHz_QPSK_20450_50RB#0

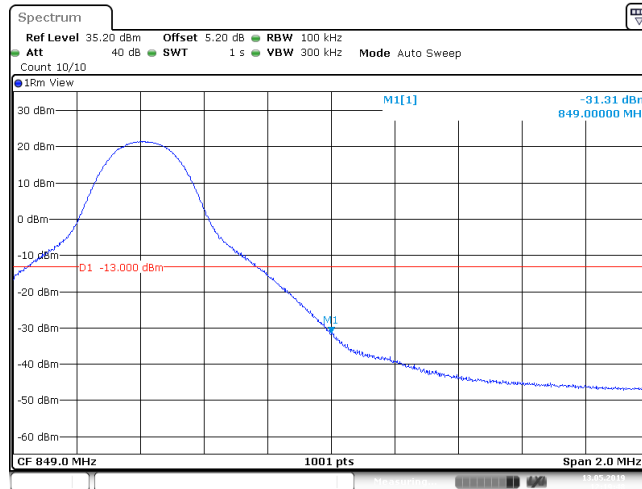


Band5_10MHz_QPSK_20600_1RB#49



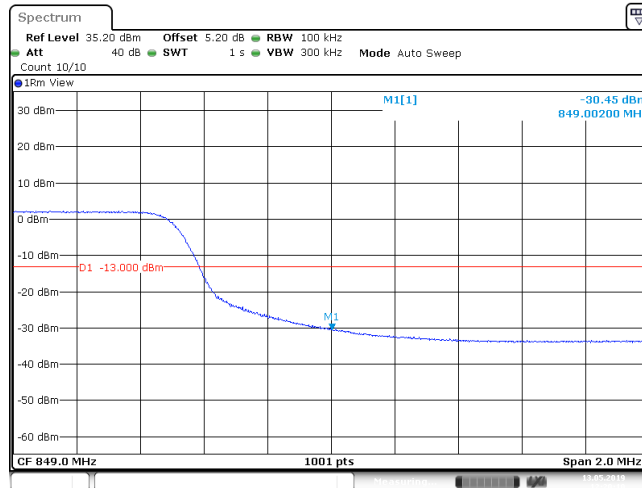
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Date: 13 MAY 2019 12:19:48

Band5_10MHz_QPSK_20600_50RB#0



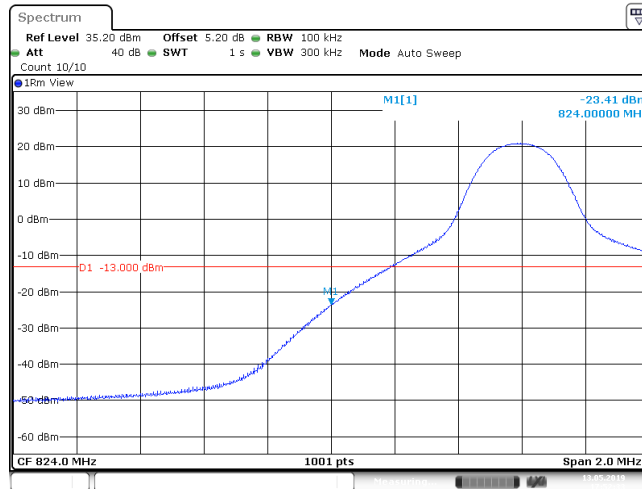
Date: 13 MAY 2019 12:20:40

Band5_10MHz_16QAM_20450_1RB#0

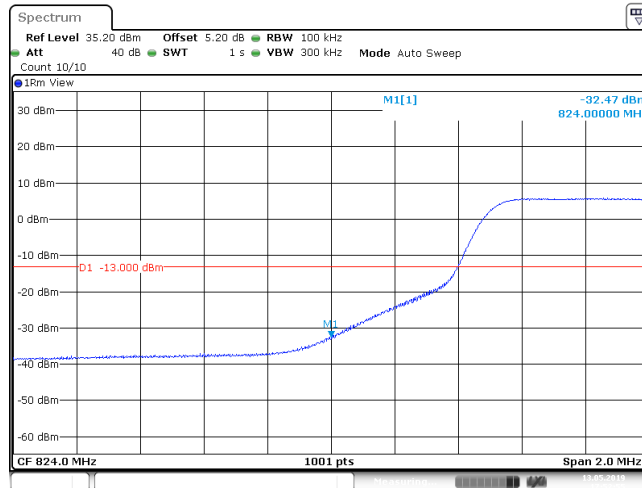


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Band5_10MHz_16QAM_20450_27RB#0

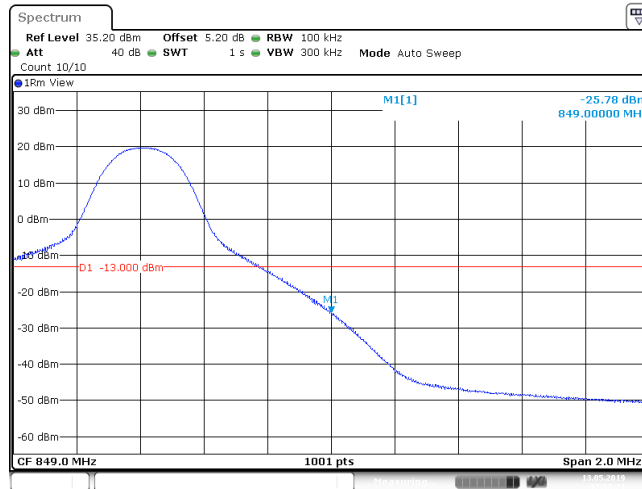


Band5_10MHz_16QAM_20600_1RB#49



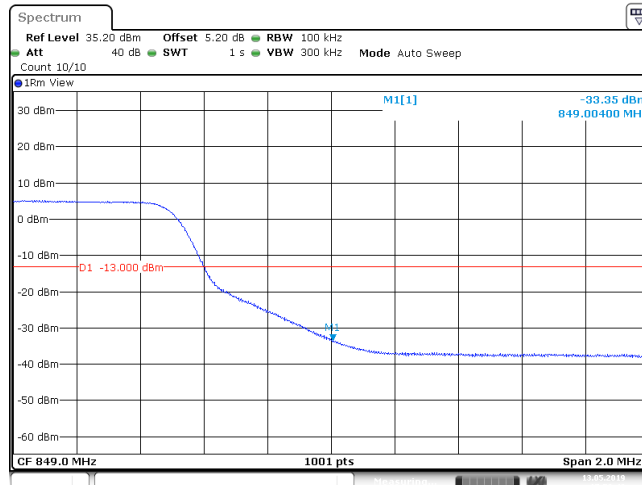
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Band5_10MHz_16QAM_20600_27RB#23



Date: 13 MAY 2019 17:53:44



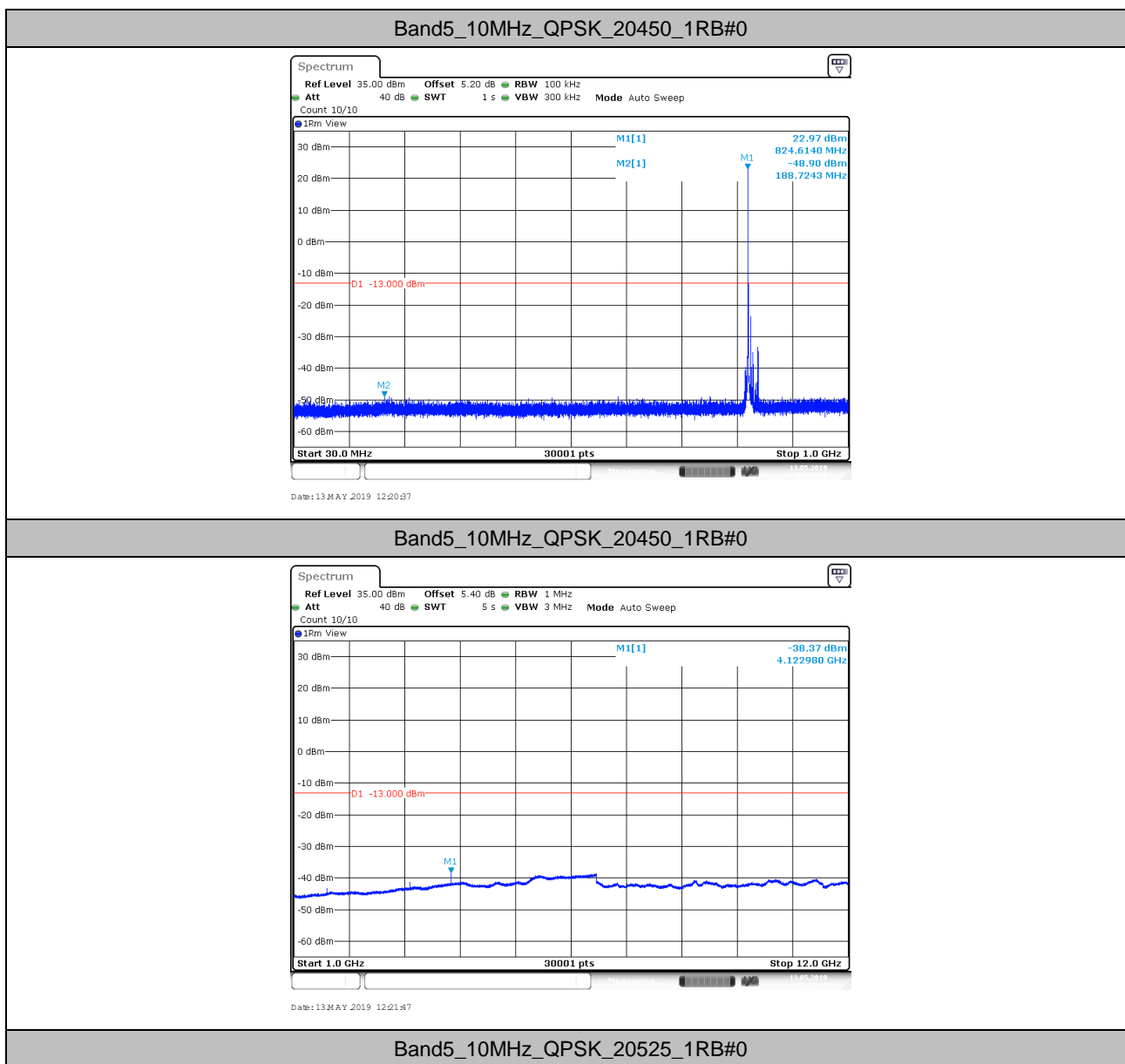
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6. Spurious Emission at Antenna Terminal

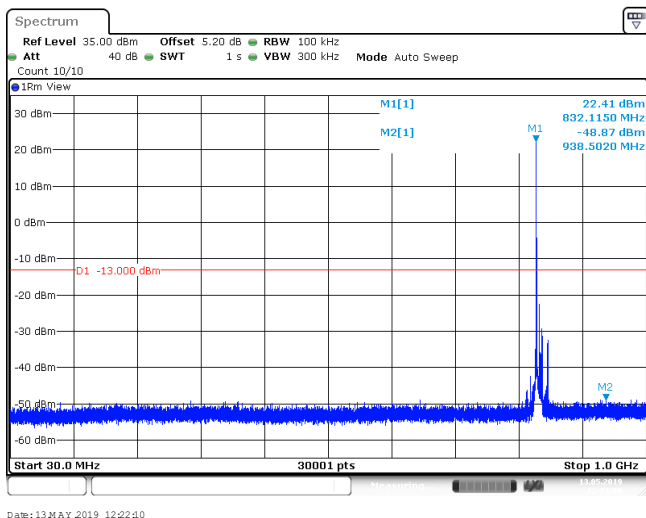
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =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

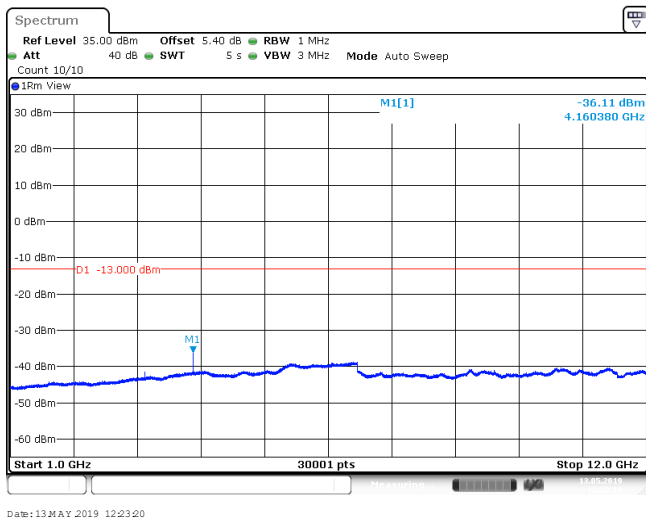
6.1. Test Plots



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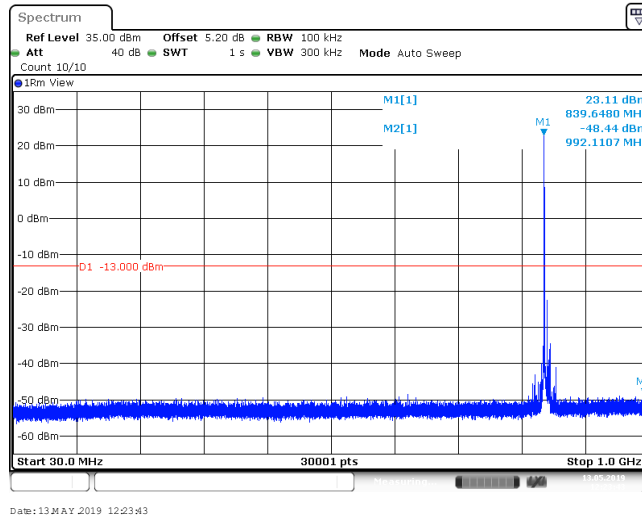
Band5_10MHz_QPSK_20525_1RB#0



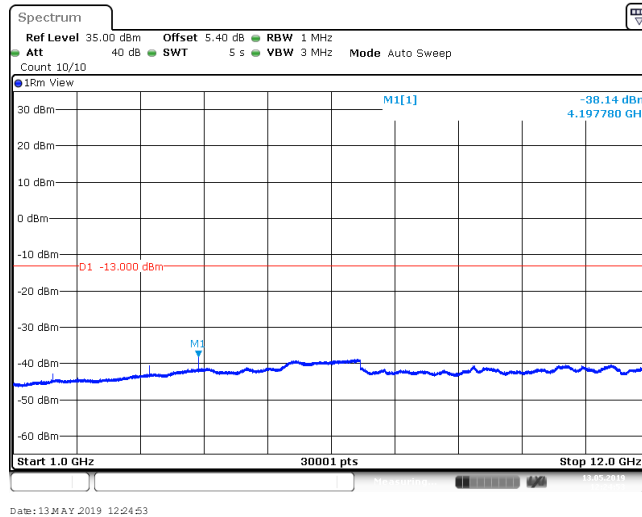
Band5_10MHz_QPSK_20600_1RB#0



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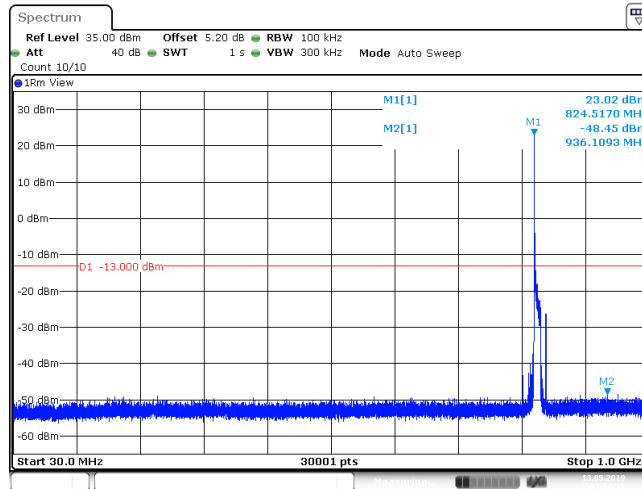
Band5_10MHz_QPSK_20600_1RB#0



Band5_10MHz_16QAM_20450_1RB#0

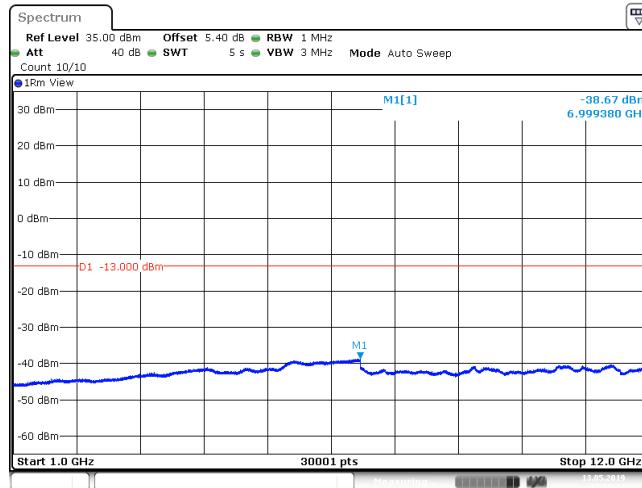


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Date: 13 MAY 2019 17:54:11

Band5_10MHz_16QAM_20450_1RB#0



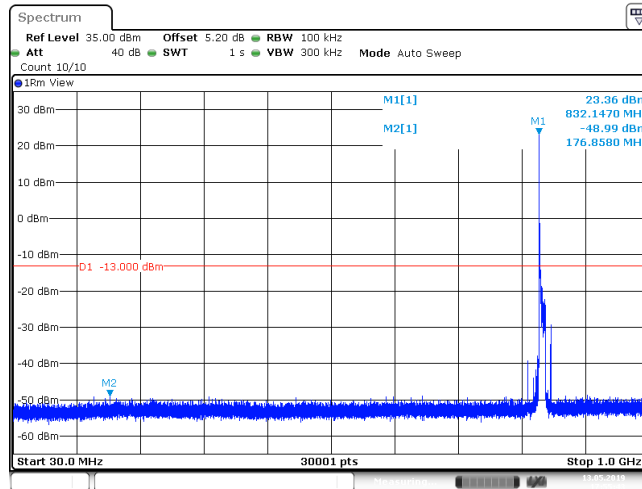
Date: 13 MAY 2019 17:55:21

Band5_10MHz_16QAM_20525_1RB#0

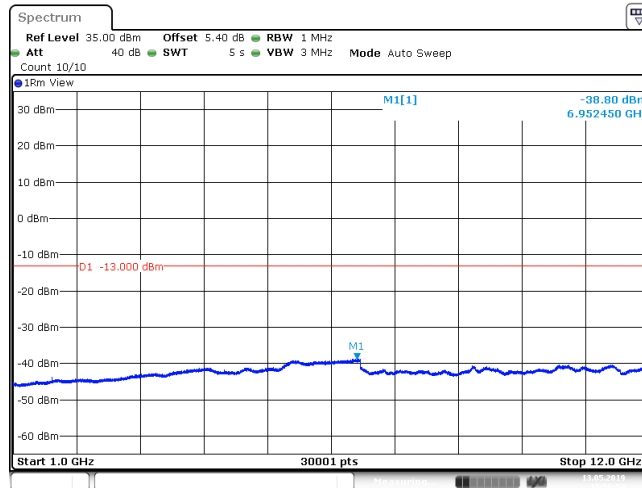


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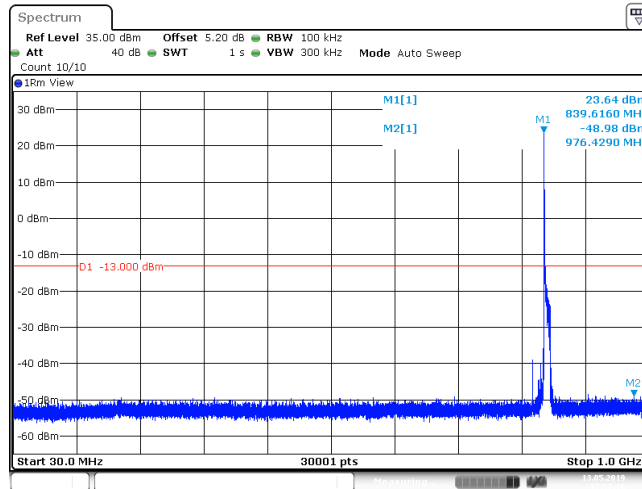
Band5_10MHz_16QAM_20525_1RB#0



Band5_10MHz_16QAM_20600_1RB#0

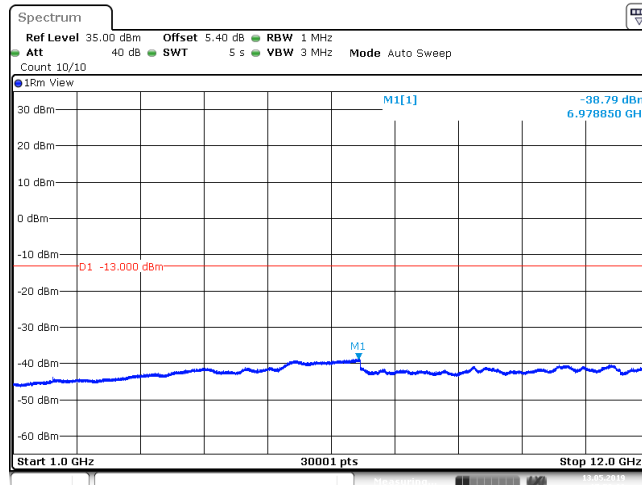


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Band5_10MHz_16QAM_20600_1RB#0



Date: 13 MAY 2019 17:58:27



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7. Field Strength of Spurious Radiation

7.1. Test BAND = LTE Band 5

7.1.1. Test Mode = LTE/TM1 10MHz

7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
65.046667	-81.97	-13.00	68.97	Vertical
156.000000	-69.65	-13.00	56.65	Vertical
406.180000	-66.86	-13.00	53.86	Vertical
1649.500000	-62.77	-13.00	49.77	Vertical
3297.862500	-63.21	-13.00	50.21	Vertical
4122.712500	-43.66	-13.00	30.66	Vertical
62.713333	-77.28	-13.00	64.28	Horizontal
156.000000	-67.28	-13.00	54.28	Horizontal
406.180000	-65.72	-13.00	52.72	Horizontal
1649.000000	-62.94	-13.00	49.94	Horizontal
3297.862500	-65.16	-13.00	52.16	Horizontal
4122.712500	-43.25	-13.00	30.25	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
63.366667	-81.96	-13.00	68.96	Vertical
156.000000	-70.25	-13.00	57.25	Vertical
406.180000	-67.22	-13.00	54.22	Vertical
1664.000000	-61.00	-13.00	48.00	Vertical
3328.087500	-59.21	-13.00	46.21	Vertical
4160.250000	-45.99	-13.00	32.99	Vertical
63.786667	-77.78	-13.00	64.78	Horizontal
156.000000	-66.94	-13.00	53.94	Horizontal
406.180000	-65.57	-13.00	52.57	Horizontal
1664.000000	-61.35	-13.00	48.35	Horizontal
3328.087500	-62.55	-13.00	49.55	Horizontal
4160.250000	-48.42	-13.00	35.42	Horizontal



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7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
63.880000	-81.43	-13.00	68.43	Vertical
156.000000	-70.59	-13.00	57.59	Vertical
406.180000	-67.66	-13.00	54.66	Vertical
1679.000000	-62.27	-13.00	49.27	Vertical
3358.312500	-61.41	-13.00	48.41	Vertical
4197.787500	-41.23	-13.00	28.23	Vertical
56.693333	-77.08	-13.00	64.08	Horizontal
156.000000	-67.98	-13.00	54.98	Horizontal
406.180000	-65.69	-13.00	52.69	Horizontal
1678.500000	-63.75	-13.00	50.75	Horizontal
3357.825000	-65.10	-13.00	52.10	Horizontal
4197.787500	-43.93	-13.00	30.93	Horizontal

Remark:

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.

We have tested all modulation and all Bandwidth , but only the worst case data presented in this report.



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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	-0.90	-0.001086	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	4.00	0.004825	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	2.70	0.003257	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-3.30	-0.003945	±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	-1.50	-0.001793	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	-3.40	-0.004028	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	-2.00	-0.002370	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	-3.90	-0.004621	±2.5	PASS
Band5	10MHz	16QAM	20450	27RB#0	VL	NT	7.70	0.009288	±2.5	PASS
Band5	10MHz	16QAM	20450	27RB#0	VN	NT	0.00	0.000000	±2.5	PASS
Band5	10MHz	16QAM	20450	27RB#0	VH	NT	-3.10	-0.003739	±2.5	PASS
Band5	10MHz	16QAM	20525	27RB#0	VL	NT	1.10	0.001315	±2.5	PASS
Band5	10MHz	16QAM	20525	27RB#0	VN	NT	-4.40	-0.005260	±2.5	PASS
Band5	10MHz	16QAM	20525	27RB#0	VH	NT	-7.30	-0.008727	±2.5	PASS
Band5	10MHz	16QAM	20600	27RB#0	VL	NT	0.60	0.000711	±2.5	PASS
Band5	10MHz	16QAM	20600	27RB#0	VN	NT	2.00	0.002370	±2.5	PASS
Band5	10MHz	16QAM	20600	27RB#0	VH	NT	3.80	0.004502	±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	-3.00	-0.003619	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	-1.60	-0.001930	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	2.80	0.003378	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	2.00	0.002413	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	0.10	0.000121	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	-0.10	-0.000121	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	2.10	0.002533	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	6.30	0.007600	±2.5	PASS



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Band5	10MHz	QPSK	20525	50RB#0	NV	-30	-1.00	-0.001195	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	1.70	0.002032	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	2.00	0.002391	±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	2.50	0.002989	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	2.90	0.003467	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-2.40	-0.002869	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-4.70	-0.005619	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	-2.40	-0.002844	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	-1.60	-0.001896	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	0.00	0.000000	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	0.00	0.000000	±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	30	-0.30	-0.000355	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	-0.70	-0.000829	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	-1.80	-0.002133	±2.5	PASS
Band5	10MHz	16QAM	20450	27RB#0	NV	-30	-1.70	-0.002051	±2.5	PASS
Band5	10MHz	16QAM	20450	27RB#0	NV	-20	5.40	0.006514	±2.5	PASS
Band5	10MHz	16QAM	20450	27RB#0	NV	0	-3.80	-0.004584	±2.5	PASS
Band5	10MHz	16QAM	20450	27RB#0	NV	10	-4.60	-0.005549	±2.5	PASS
Band5	10MHz	16QAM	20450	27RB#0	NV	20	2.60	0.003136	±2.5	PASS
Band5	10MHz	16QAM	20450	27RB#0	NV	30	2.60	0.003136	±2.5	PASS
Band5	10MHz	16QAM	20450	27RB#0	NV	40	3.60	0.004343	±2.5	PASS
Band5	10MHz	16QAM	20450	27RB#0	NV	50	2.20	0.002654	±2.5	PASS
Band5	10MHz	16QAM	20525	27RB#0	NV	-30	2.10	0.002510	±2.5	PASS
Band5	10MHz	16QAM	20525	27RB#0	NV	-20	-3.20	-0.003825	±2.5	PASS
Band5	10MHz	16QAM	20525	27RB#0	NV	0	0.40	0.000478	±2.5	PASS
Band5	10MHz	16QAM	20525	27RB#0	NV	10	0.10	0.000120	±2.5	PASS
Band5	10MHz	16QAM	20525	27RB#0	NV	20	0.50	0.000598	±2.5	PASS
Band5	10MHz	16QAM	20525	27RB#0	NV	30	-0.10	-0.000120	±2.5	PASS
Band5	10MHz	16QAM	20525	27RB#0	NV	40	-0.30	-0.000359	±2.5	PASS
Band5	10MHz	16QAM	20525	27RB#0	NV	50	0.20	0.000239	±2.5	PASS
Band5	10MHz	16QAM	20600	27RB#0	NV	-30	-2.90	-0.003436	±2.5	PASS
Band5	10MHz	16QAM	20600	27RB#0	NV	-20	-2.70	-0.003199	±2.5	PASS
Band5	10MHz	16QAM	20600	27RB#0	NV	0	-1.60	-0.001896	±2.5	PASS
Band5	10MHz	16QAM	20600	27RB#0	NV	10	0.20	0.000237	±2.5	PASS
Band5	10MHz	16QAM	20600	27RB#0	NV	20	3.40	0.004028	±2.5	PASS
Band5	10MHz	16QAM	20600	27RB#0	NV	30	4.10	0.004858	±2.5	PASS



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Band5	10MHz	16QAM	20600	27RB#0	NV	40	-4.80	-0.005687	±2.5	PASS
Band5	10MHz	16QAM	20600	27RB#0	NV	50	-4.70	-0.005569	±2.5	PASS

The End



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