



Appendix B

E-UTRA Band 5



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CONTENT

1 EFFECTIVE (ISOTROPIC) RADIATED POWER..... 3

1.1. TEST RESULT..... 3

2. PEAK-TO-AVERAGE RATIO (CCDF)..... 7

2.1. TEST RESULT..... 7

2.2. TEST PLOTS 7

3. MODULATION CHARACTERISTICS11

3.1. TEST MODE = LTE /TM1 10MHZ11

3.1.1. TEST CHANNEL = MCH11

3.2. TEST MODE = LTE /TM2 10MHZ12

3.2.1. TEST CHANNEL = MCH12

4. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH13

4.1. TEST RESULT.....13

4.2. TEST PLOTS14

5. BAND EDGE COMPLIANCE26

5.1. TEST PLOTS26

6. SPURIOUS EMISSION AT ANTENNA TERMINAL42

6.1. TEST PLOTS42

7. FIELD STRENGTH OF SPURIOUS RADIATION.....48

7.1. TEST MODE =LTE/TM1 10MHZ.....48

7.1.1. TEST CHANNEL = LCH.....48

7.1.2. TEST CHANNEL = MCH48

7.1.3. TEST CHANNEL = HCH49

8. FREQUENCY STABILITY.....50

8.1. FREQUENCY VS VOLTAGE.....50

8.2. FREQUENCY VS TEMPERATURE50



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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	23.51	19.61	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.66	19.76	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.59	19.69	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.46	19.56	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	23.54	19.64	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.51	19.61	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.71	18.81	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.52	19.62	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.76	19.86	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.49	19.59	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.61	19.71	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	23.73	19.83	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.53	19.63	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.60	18.70	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.59	19.69	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.70	19.80	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.58	19.68	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.42	19.52	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	23.58	19.68	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	23.52	19.62	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.63	18.73	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.68	18.78	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.86	18.96	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.80	18.90	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	22.75	18.85	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	23.12	19.22	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	22.92	19.02	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.80	17.90	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.99	19.09	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	23.14	19.24	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.98	19.08	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	23.21	19.31	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	23.17	19.27	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	23.15	19.25	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.73	17.83	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.52	18.62	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.63	18.73	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.51	18.61	38.45	PASS



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Band5	1.4MHz	16QAM	20643	3RB#0	22.76	18.86	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	22.92	19.02	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	22.71	18.81	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.73	17.83	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.61	19.71	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.80	19.90	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.61	19.71	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.84	18.94	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#4	22.70	18.80	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#7	22.64	18.74	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.77	18.87	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.64	19.74	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.78	19.88	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.55	19.65	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#7	22.84	18.94	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#0	22.65	18.75	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#4	22.81	18.91	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.70	18.80	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.65	19.75	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.69	19.79	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.61	19.71	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#0	22.84	18.94	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#7	22.69	18.79	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#4	22.59	18.69	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.66	18.76	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.77	18.87	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.96	19.06	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.75	18.85	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.93	18.03	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#4	21.70	17.80	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#0	21.76	17.86	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.81	17.91	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	23.11	19.21	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	23.19	19.29	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	23.05	19.15	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#7	21.82	17.92	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#0	21.84	17.94	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#4	21.79	17.89	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.71	17.81	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.62	18.72	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.74	18.84	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.51	18.61	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#0	21.86	17.96	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#4	21.72	17.82	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#7	21.65	17.75	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.79	17.89	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.46	19.56	38.45	PASS



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Band5	5MHz	QPSK	20425	1RB#12	23.62	19.72	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.53	19.63	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#0	22.83	18.93	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#6	22.59	18.69	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.63	18.73	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.80	18.90	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.63	19.73	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.81	19.91	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.53	19.63	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#0	22.92	19.02	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#6	22.62	18.72	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.70	18.80	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.73	18.83	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.44	19.54	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.58	19.68	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.58	19.68	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.71	18.81	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#6	22.66	18.76	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.53	18.63	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.73	18.83	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.81	18.91	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.82	18.92	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.79	18.89	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#6	21.80	17.90	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#0	21.61	17.71	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#13	21.72	17.82	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.84	17.94	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	23.06	19.16	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	23.09	19.19	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	23.04	19.14	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#13	21.69	17.79	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#0	21.73	17.83	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#6	21.72	17.82	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.79	17.89	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.45	18.55	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.63	18.73	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.49	18.59	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#0	21.79	17.89	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.66	17.76	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#13	21.58	17.68	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.74	17.84	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.70	19.80	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.90	20.00	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.80	19.90	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#0	23.01	19.11	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#12	22.80	18.90	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.80	18.90	38.45	PASS



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Band5	10MHz	QPSK	20450	50RB#0	22.94	19.04	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.77	19.87	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.91	20.01	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.74	19.84	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#25	23.03	19.13	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.80	18.90	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#12	22.91	19.01	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.84	18.94	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.74	19.84	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.85	19.95	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.76	19.86	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.98	19.08	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.84	18.94	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#12	22.77	18.87	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.85	18.95	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.90	19.00	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	23.10	19.20	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.95	19.05	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#25	22.09	18.19	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#12	21.90	18.00	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#0	21.94	18.04	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.96	18.06	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	23.20	19.30	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.34	19.44	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	23.15	19.25	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#25	21.91	18.01	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#0	21.94	18.04	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#12	21.99	18.09	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.90	18.00	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.74	18.84	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.87	18.97	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.71	18.81	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#0	21.99	18.09	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#12	21.92	18.02	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#25	21.83	17.93	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.88	17.98	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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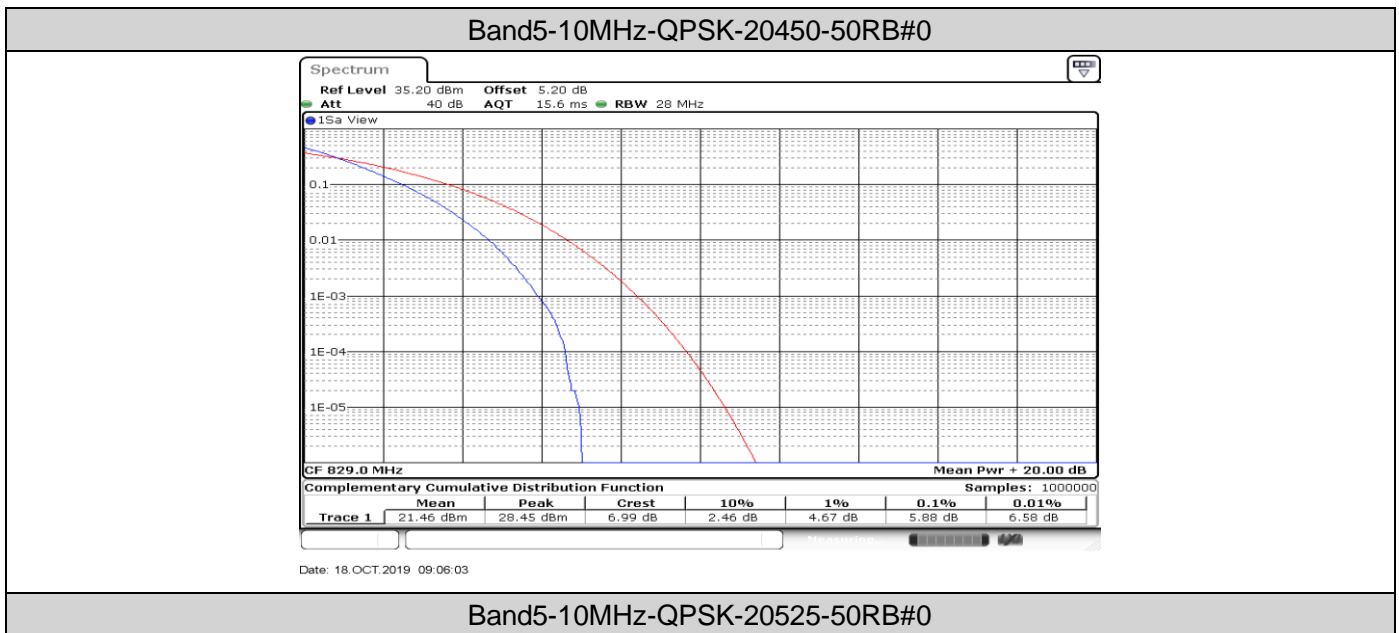


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

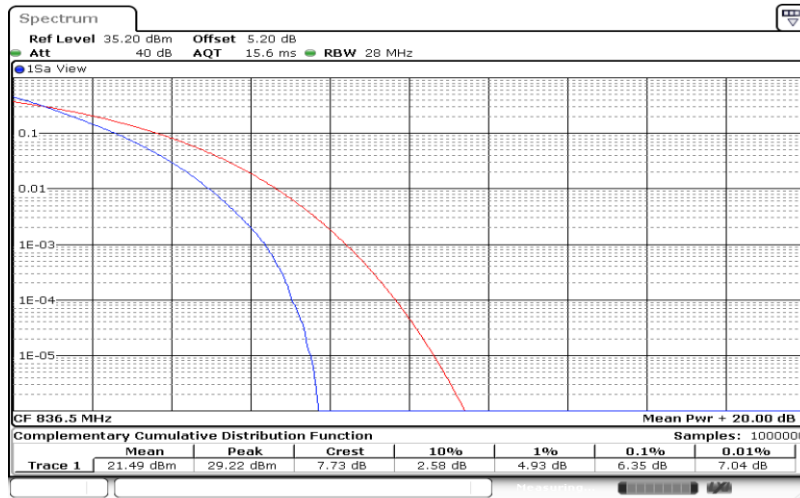
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	5.88	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	6.35	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	6.12	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.58	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.81	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.64	13	PASS

2.2. Test Plots



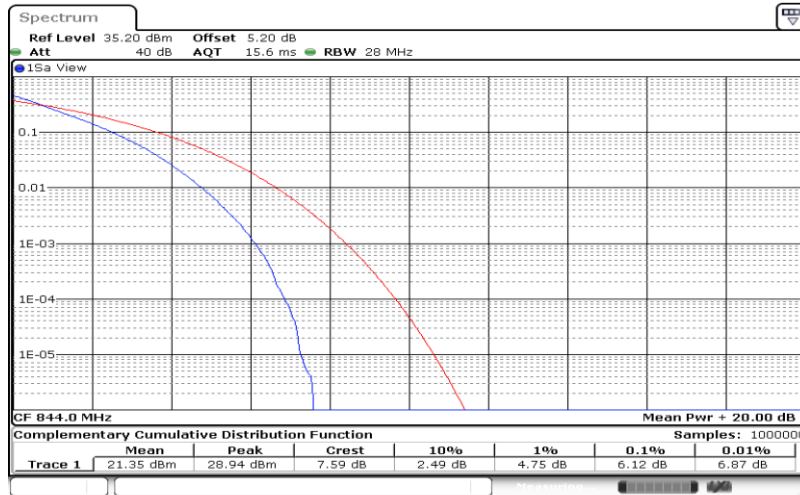
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Date: 18.OCT.2019 09:06:25

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

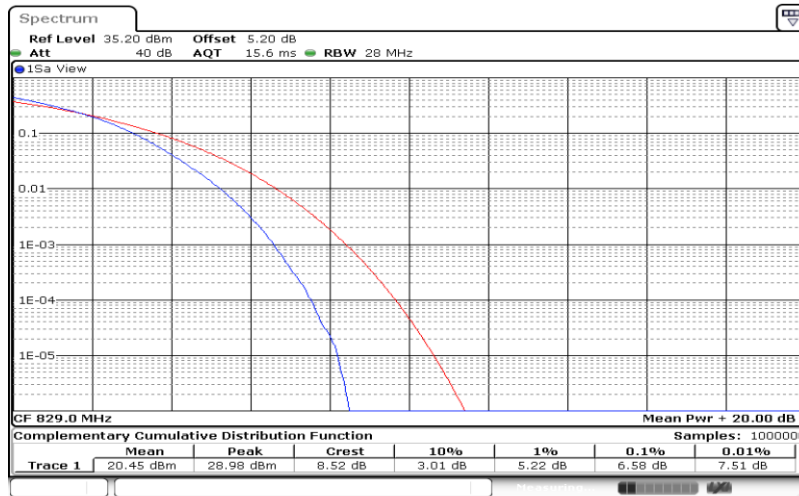


Date: 18.OCT.2019 09:06:48

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

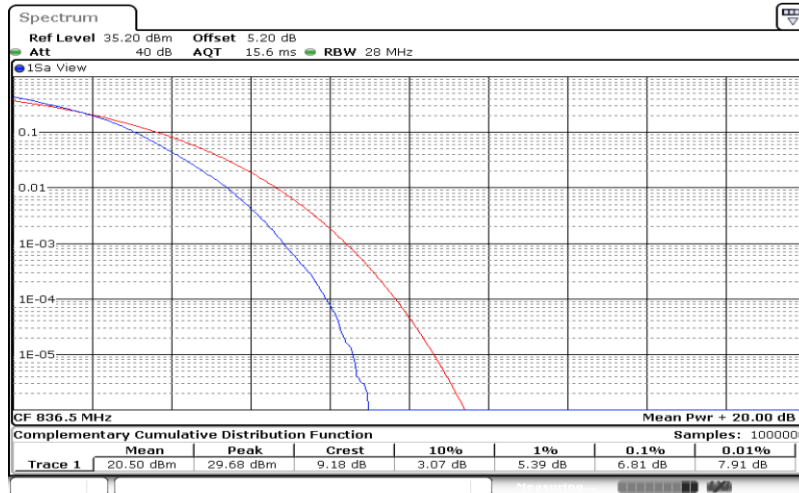


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Date: 18.OCT.2019 09:06:14

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

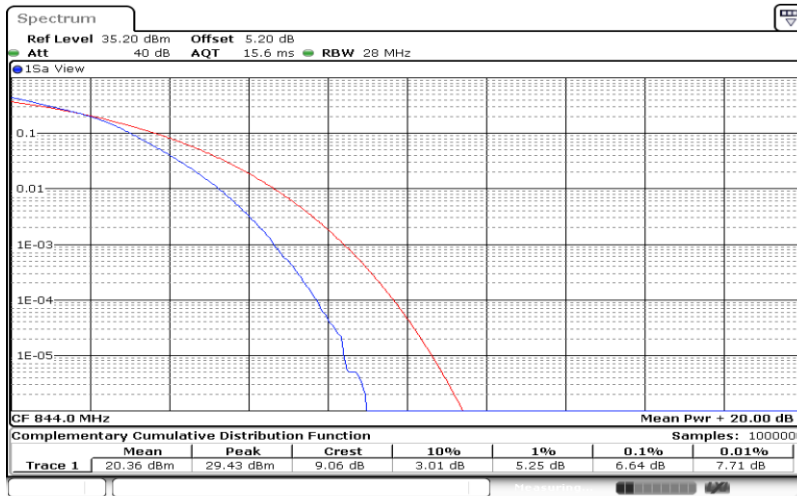


Date: 18.OCT.2019 09:06:37

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



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Date: 18.OCT.2019 09:07:00



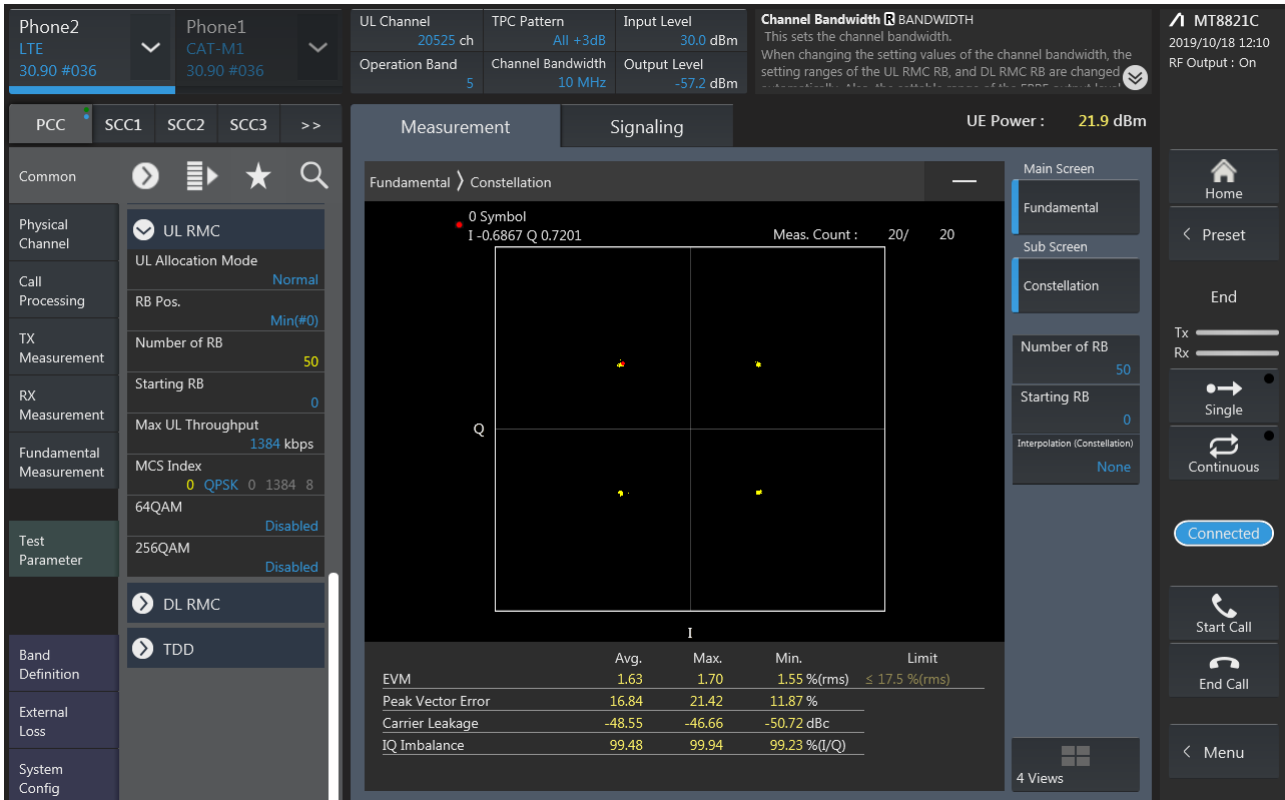
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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

3.1.1. Test Channel = MCH

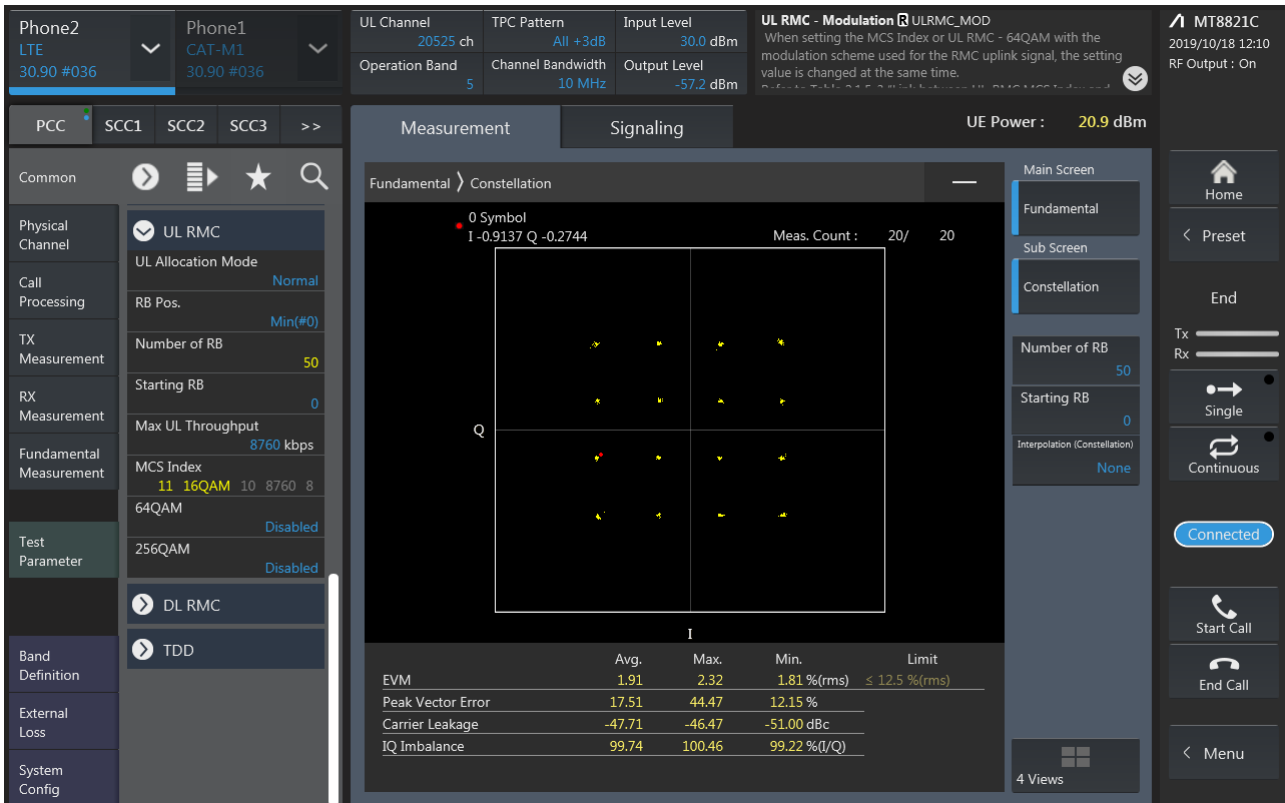


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3.2. Test Mode = LTE /TM2 10MHz

3.2.1. Test Channel = MCH



4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.088	1.278	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.091	1.290	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.088	1.278	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.088	1.296	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.091	1.299	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.088	1.293	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.685	2.904	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.691	2.922	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.691	2.922	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.679	2.910	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.679	2.898	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.673	2.904	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.466	4.830	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.466	4.840	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.476	4.860	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.486	4.850	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.466	4.830	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.476	4.860	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.931	9.620	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.951	9.600	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.911	9.600	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.931	9.520	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.931	9.600	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.911	9.600	PASS

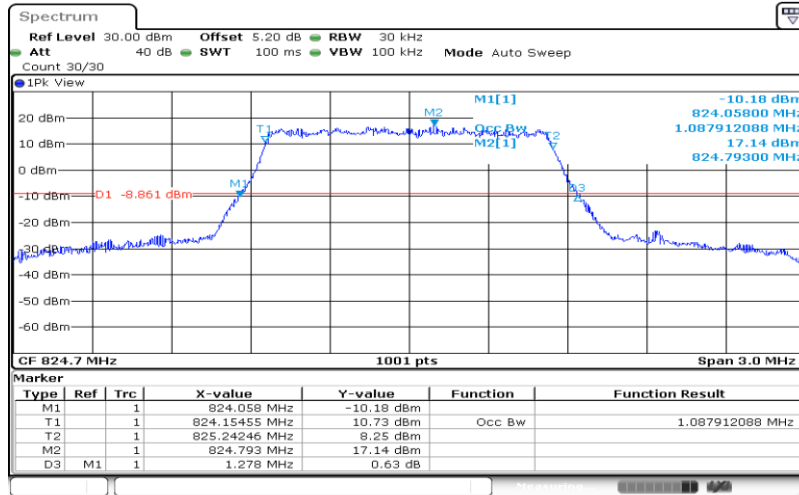


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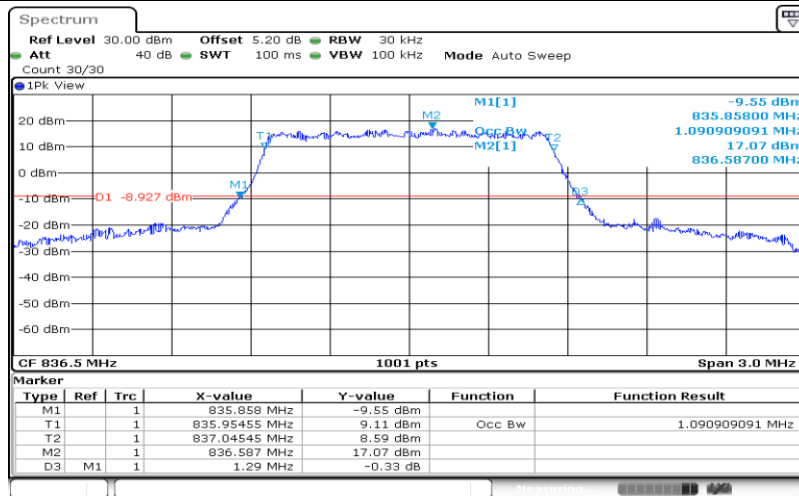
4.2. Test Plots

Band5-1.4MHz-QPSK-20407-6RB#0-1.088



Date: 18.OCT.2019 08:39:57

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

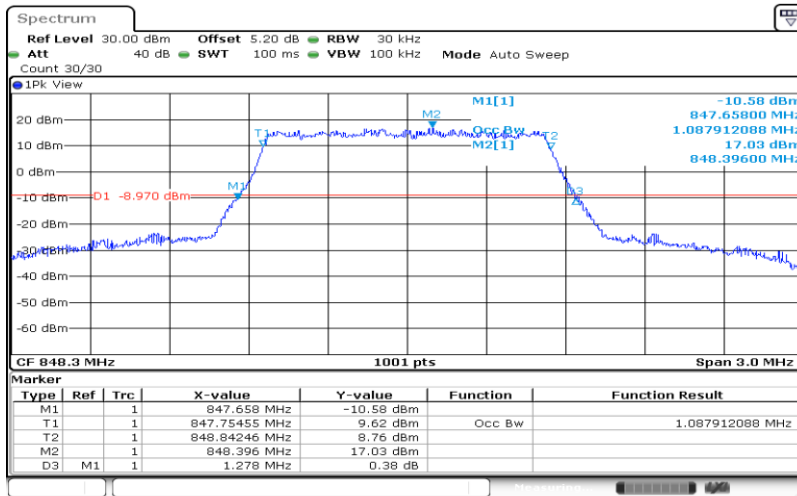


Date: 18.OCT.2019 08:40:24

Band5-1.4MHz-QPSK-20643-6RB#0-1.088

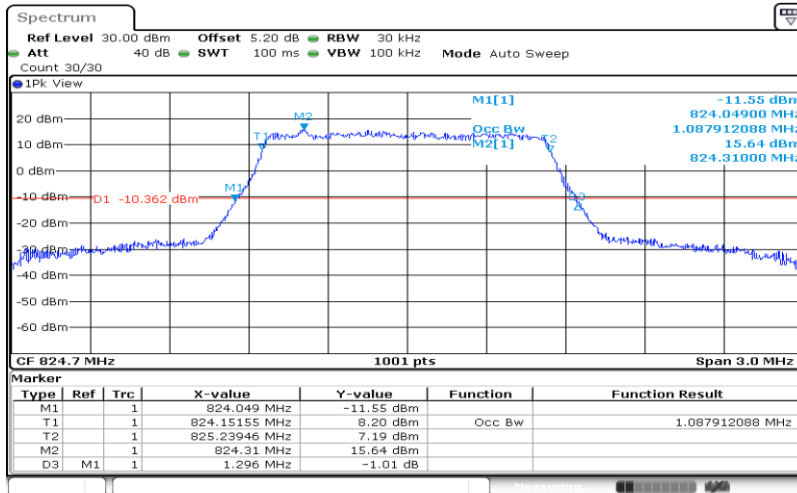


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Date: 18.OCT.2019 08:40:50

Band5-1.4MHz-16QAM-20407-6RB#0-1.088

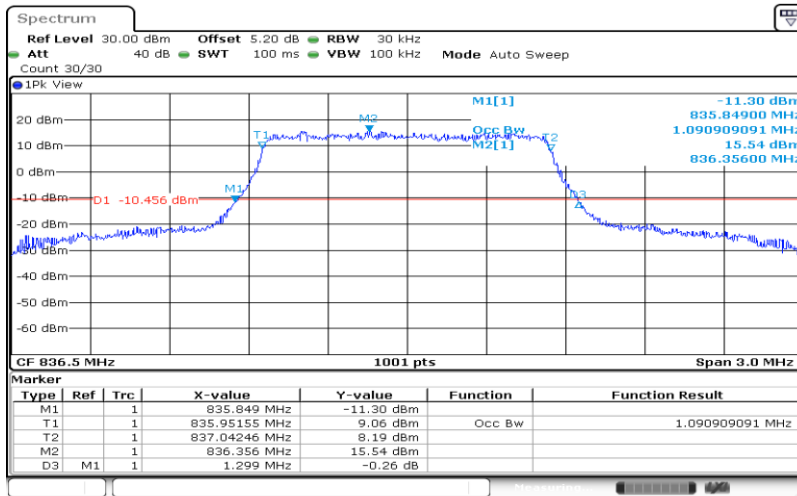


Date: 18.OCT.2019 08:40:10

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

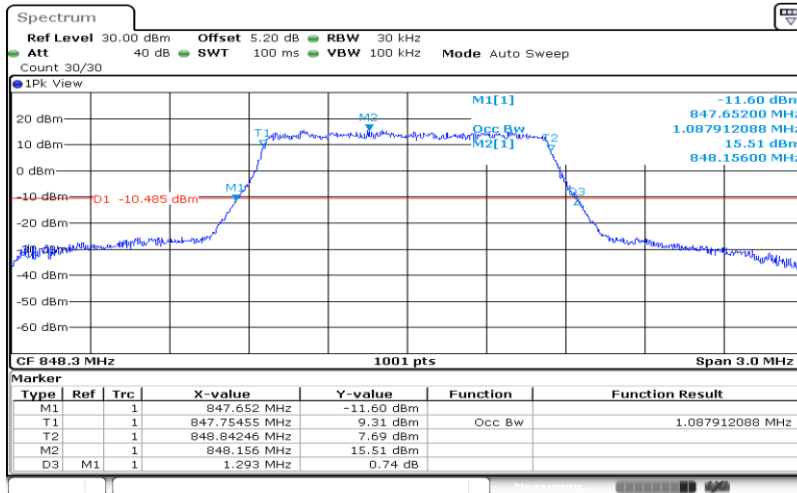


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Date: 18.OCT.2019 08:40:36

Band5-1.4MHz-16QAM-20643-6RB#0-1.088

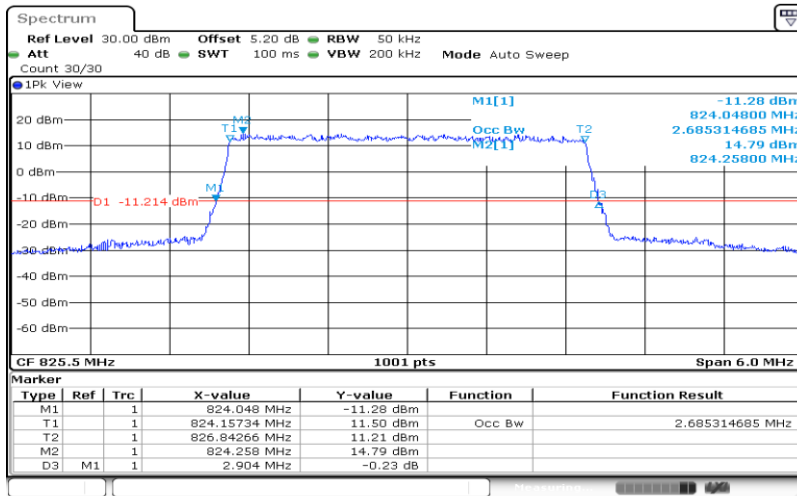


Date: 18.OCT.2019 08:41:02

Band5-3MHz-QPSK-20415-15RB#0-2.685

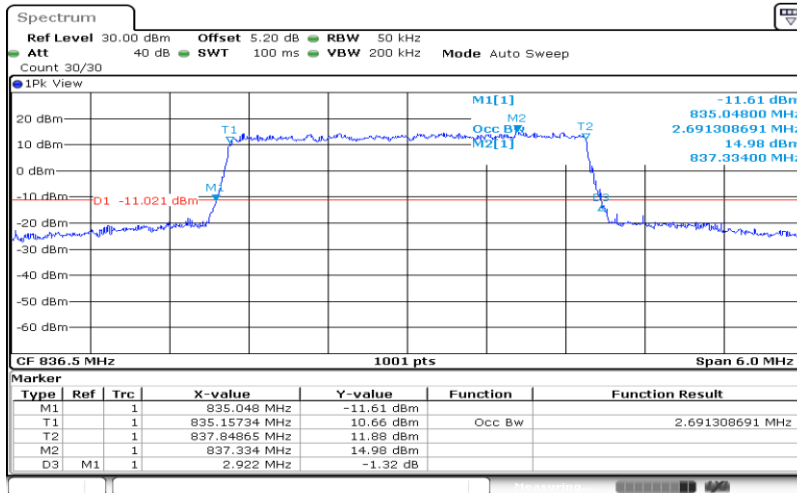


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Date: 18.OCT.2019 08:41:20

Band5-3MHz-QPSK-20525-15RB#0-2.691

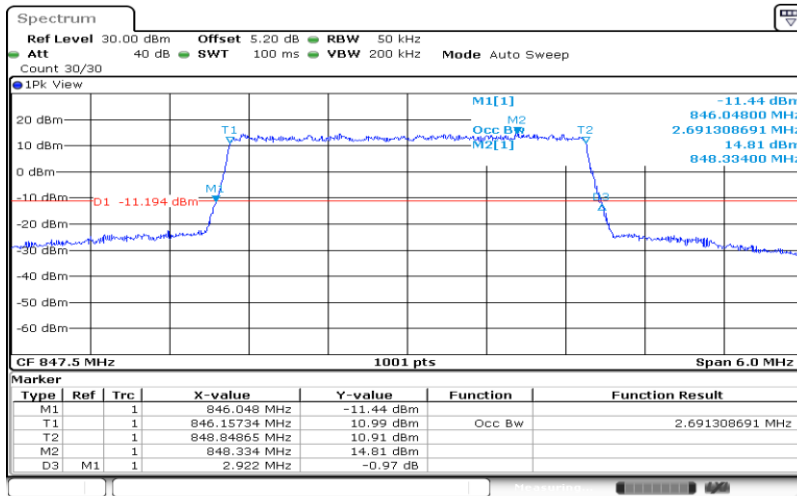


Date: 18.OCT.2019 08:41:47

Band5-3MHz-QPSK-20635-15RB#0-2.691

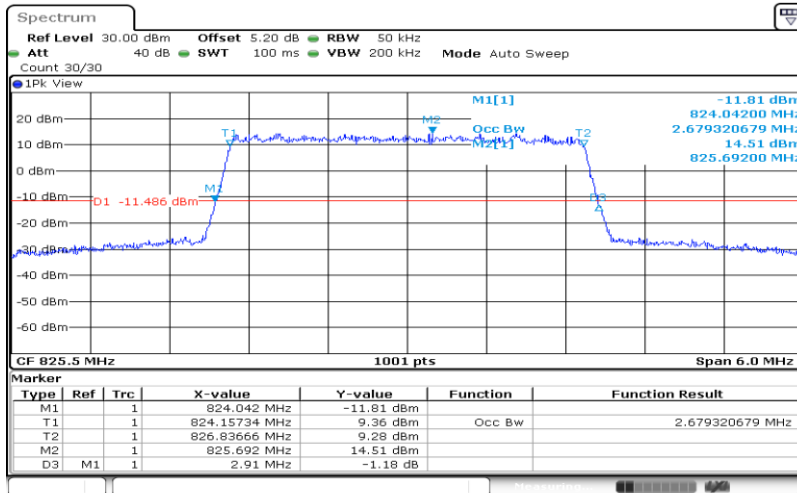


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Date: 18.OCT.2019 08:42:12

Band5-3MHz-16QAM-20415-15RB#0-2.679

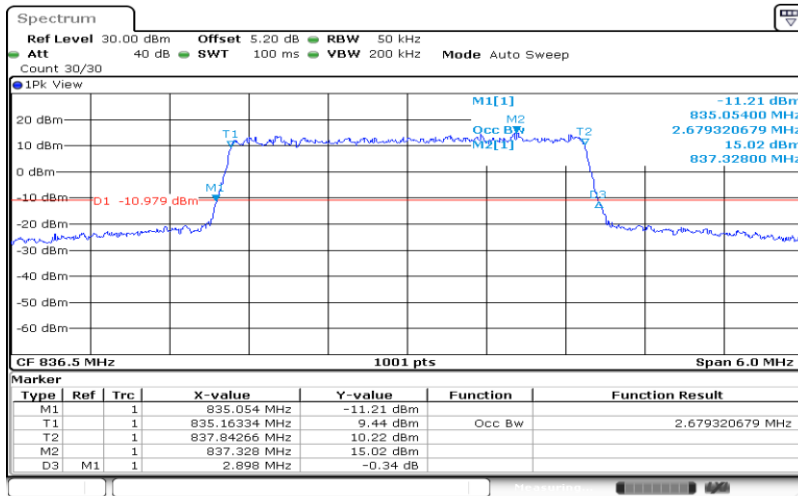


Date: 18.OCT.2019 08:41:33

Band5-3MHz-16QAM-20525-15RB#0-2.679

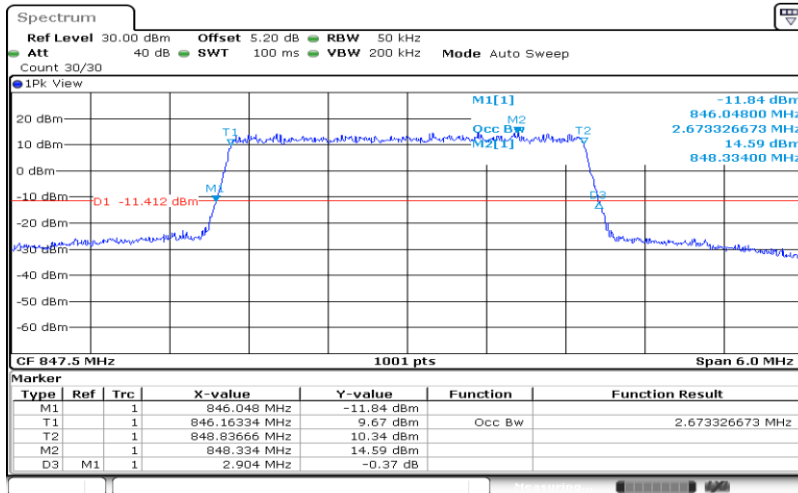


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Date: 18.OCT.2019 08:41:59

Band5-3MHz-16QAM-20635-15RB#0-2.673

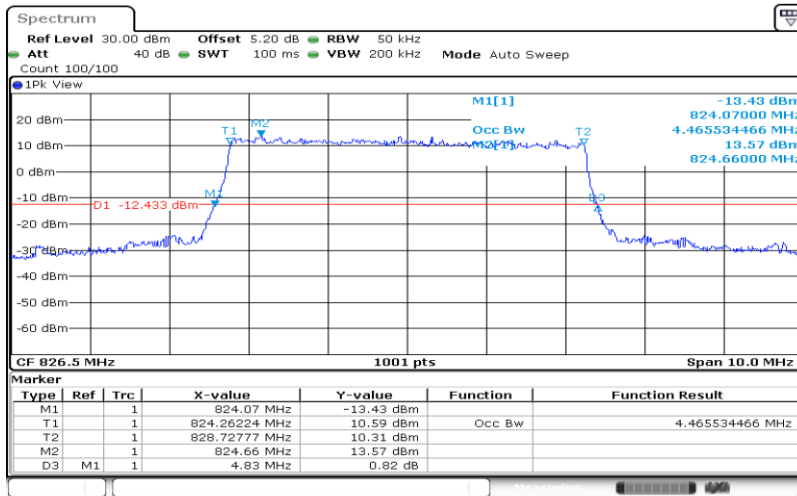


Date: 18.OCT.2019 08:42:25

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

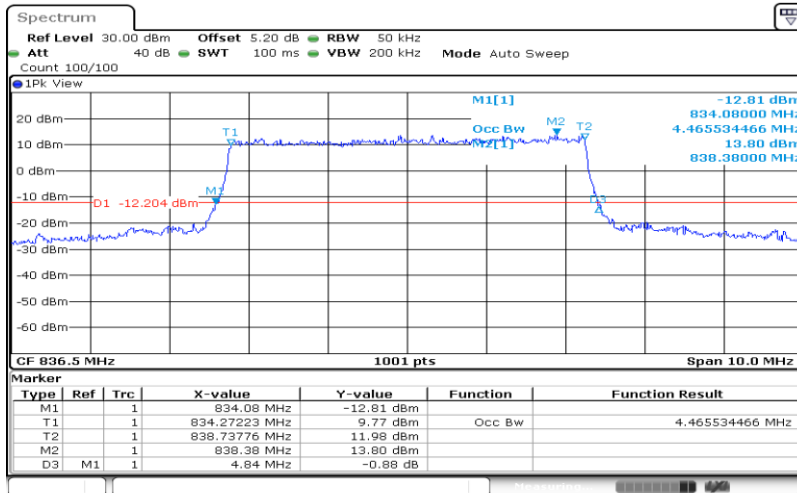


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Date: 18.OCT.2019 08:42:50

Band5-5MHz-QPSK-20525-25RB#0-4.466

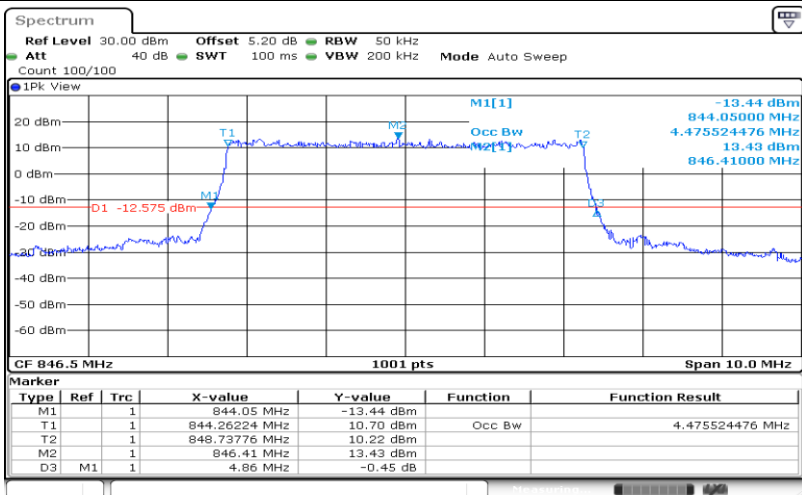


Date: 18.OCT.2019 08:43:30

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

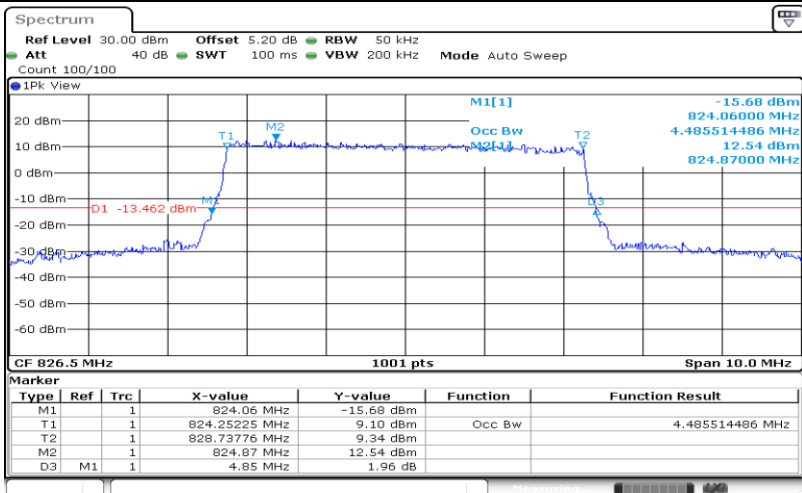


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Date: 18.OCT.2019 08:44:10

Band5-5MHz-16QAM-20425-25RB#0-4.486



Date: 18.OCT.2019 08:43:10

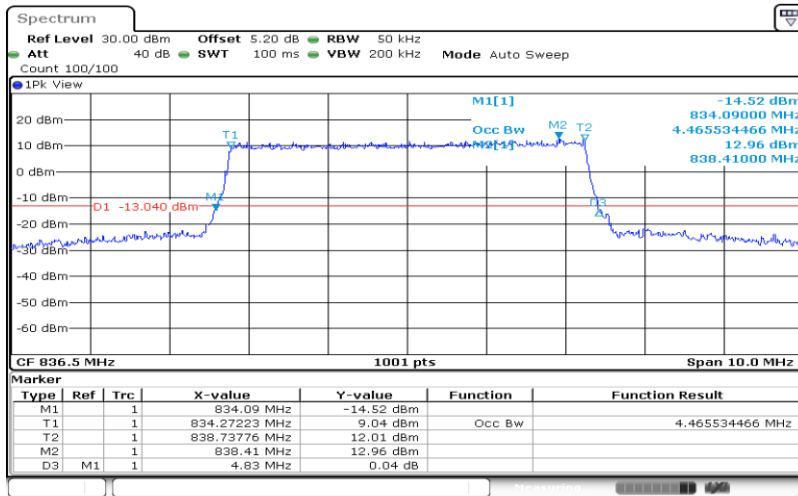
Band5-5MHz-16QAM-20525-25RB#0-4.466



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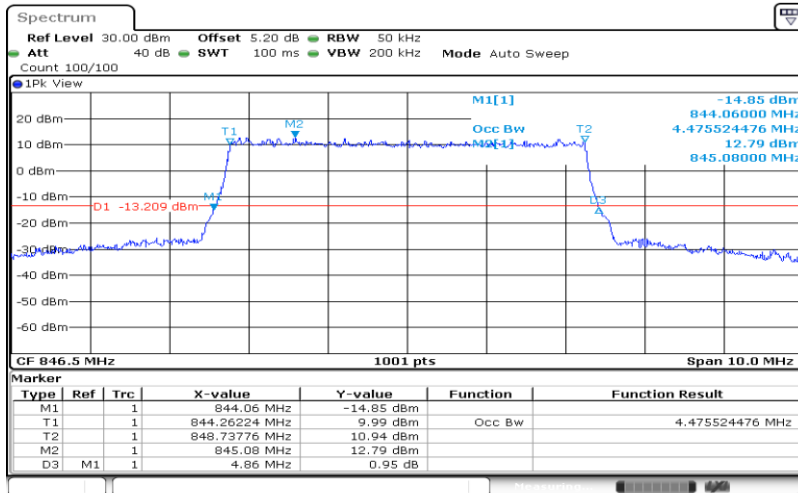
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Date: 18.OCT.2019 08:43:50

Band5-5MHz-16QAM-20625-25RB#0-4.476

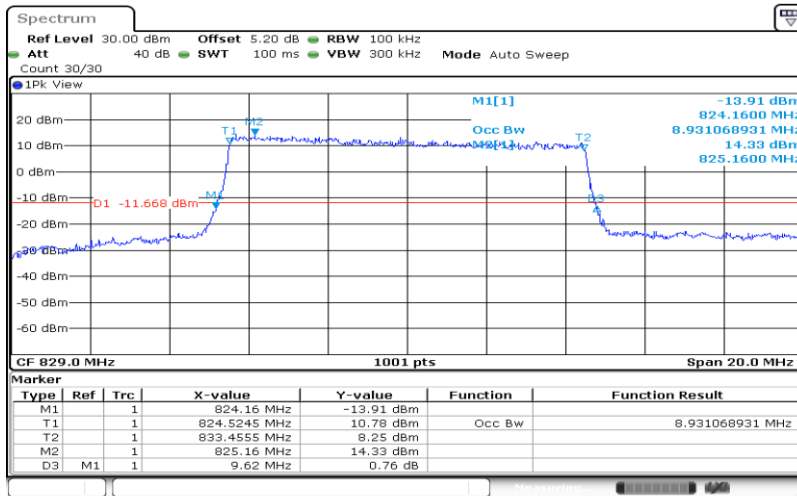


Date: 18.OCT.2019 08:44:29

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

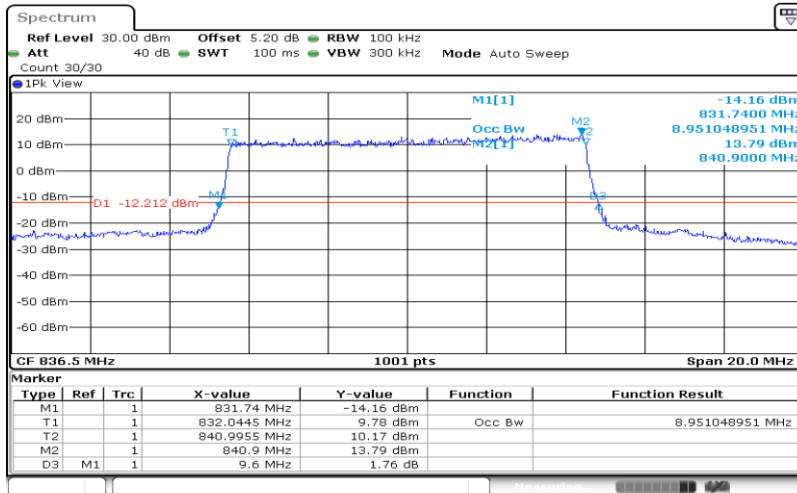


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Date: 18.OCT.2019 08:44:47

Band5-10MHz-QPSK-20525-50RB#0-8.951

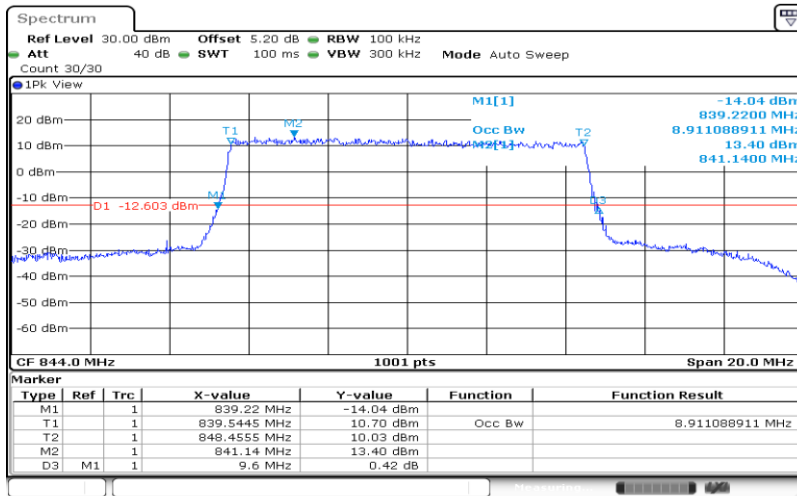


Date: 18.OCT.2019 08:45:13

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

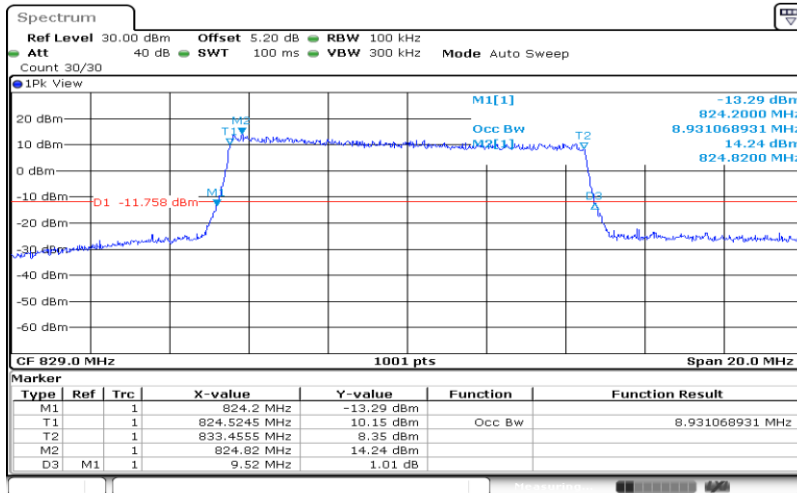


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Date: 18.OCT.2019 08:45:39

Band5-10MHz-16QAM-20450-50RB#0-8.931

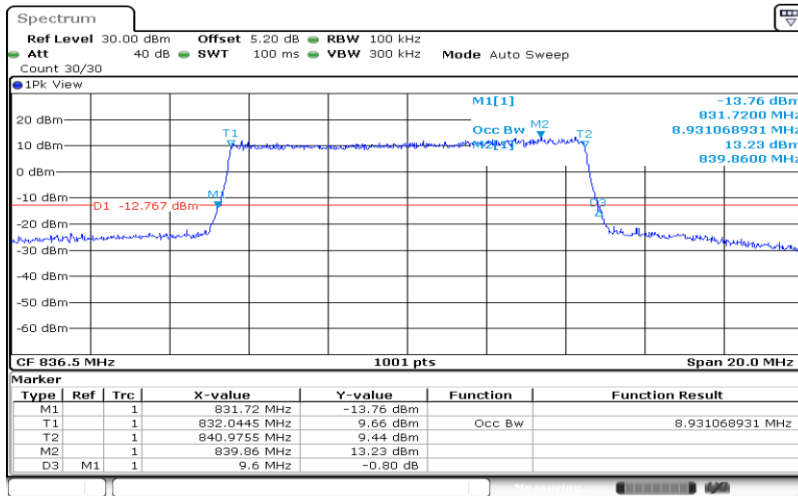


Date: 18.OCT.2019 08:45:00

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

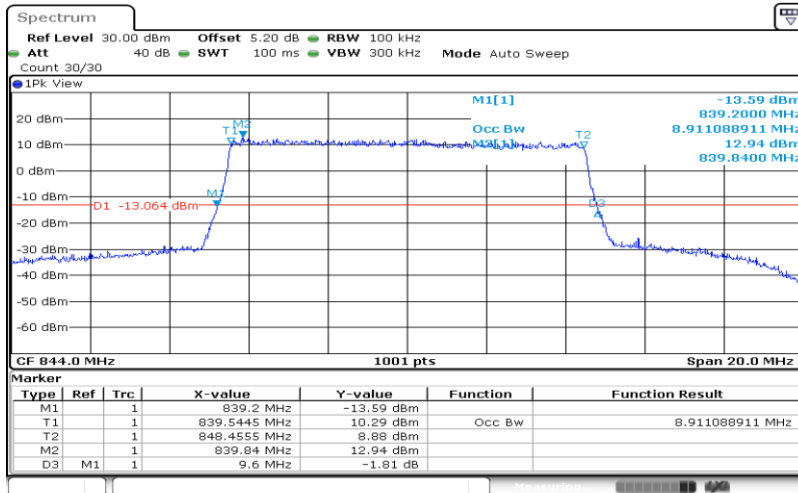


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Date: 18.OCT.2019 08:45:26

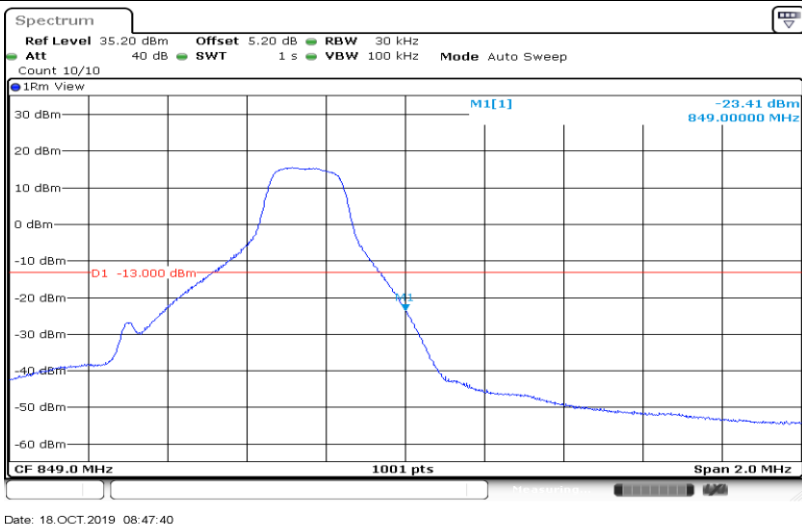
Band5-10MHz-16QAM-20600-50RB#0-8.911



Date: 18.OCT.2019 08:45:52



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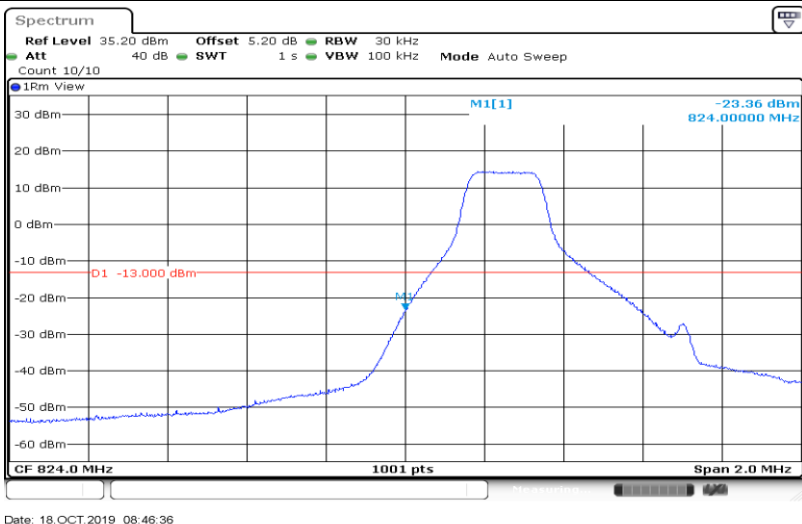
Band5-1.4MHz-QPSK-20643-6RB#0



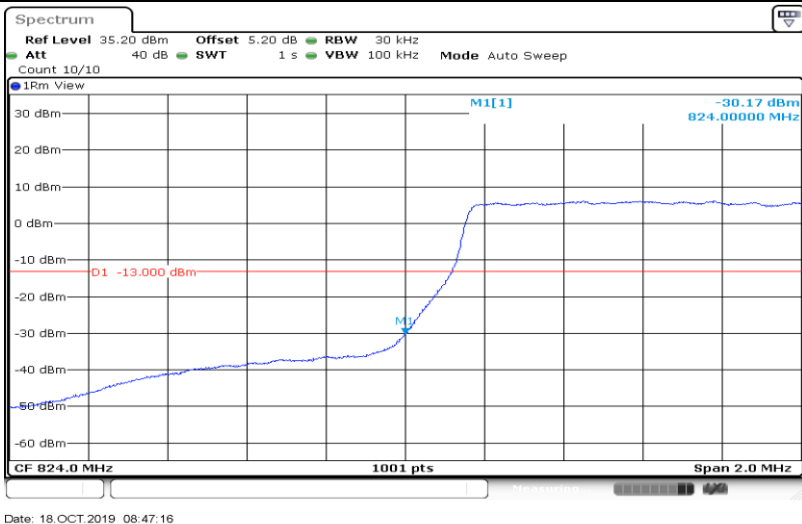
Band5-1.4MHz-16QAM-20407-1RB#0



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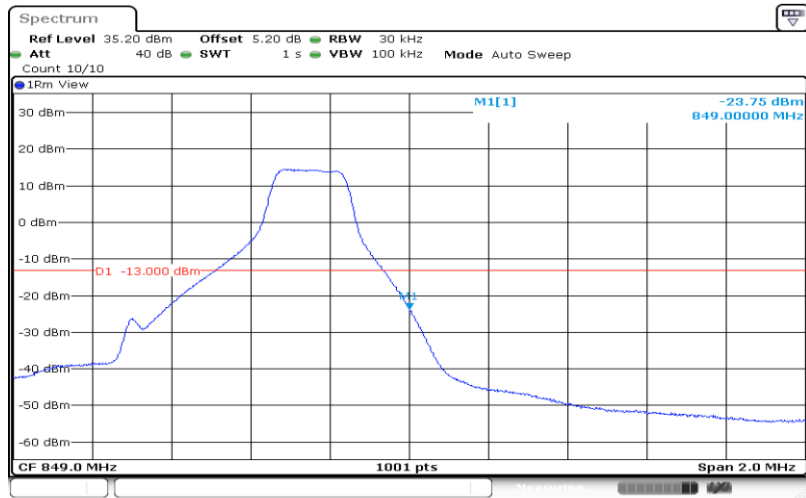
Band5-1.4MHz-16QAM-20407-6RB#0



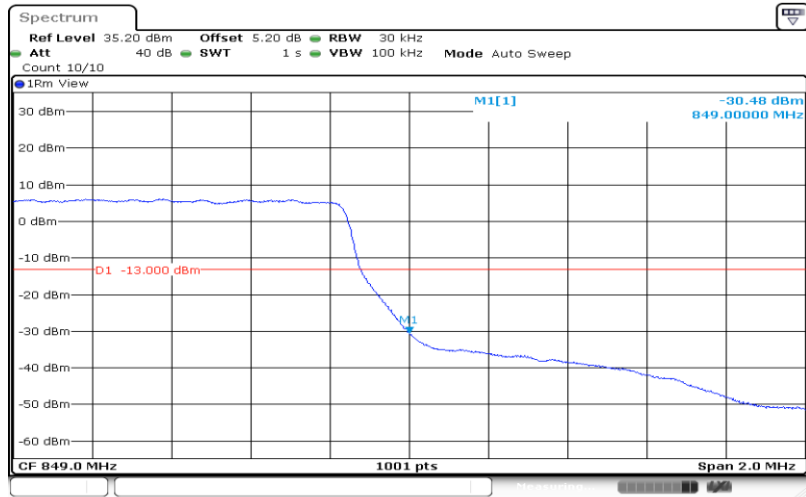
Band5-1.4MHz-16QAM-20643-1RB#5



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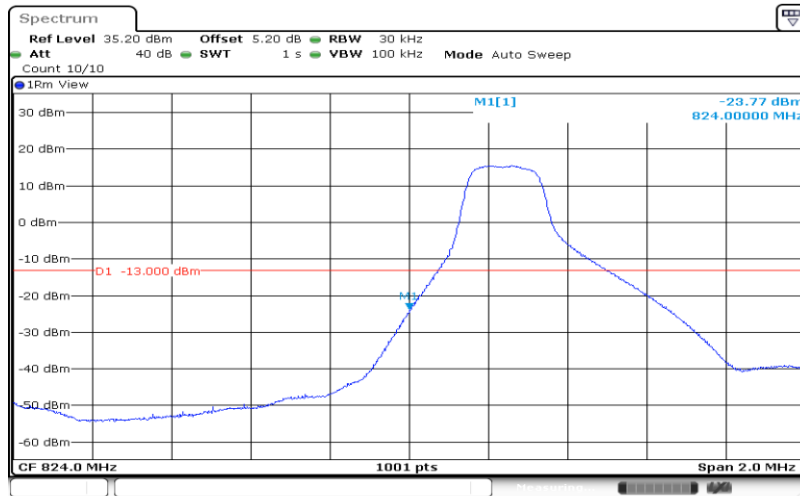
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Band5-3MHz-QPSK-20415-1RB#0

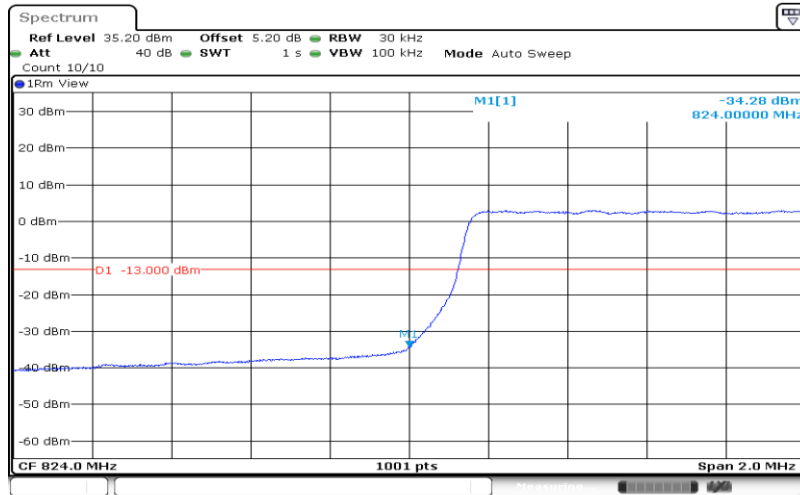


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Date: 18.OCT.2019 08:49:04

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

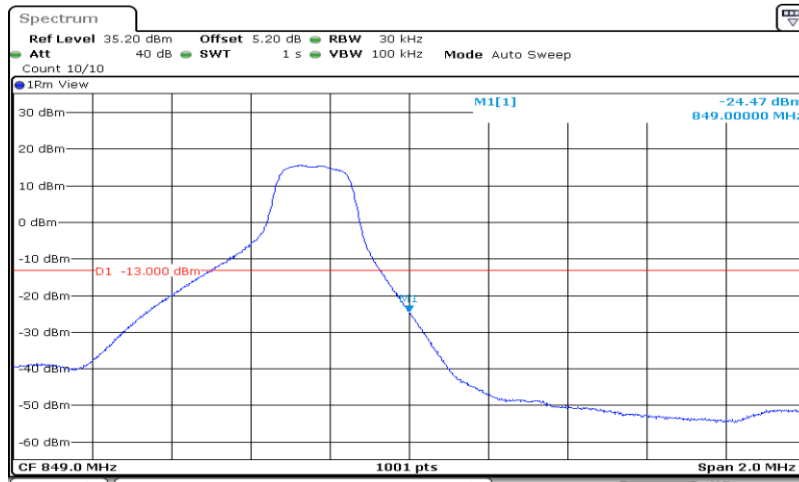


Date: 18.OCT.2019 08:49:43

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



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Date: 18.OCT.2019 08:50:27

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

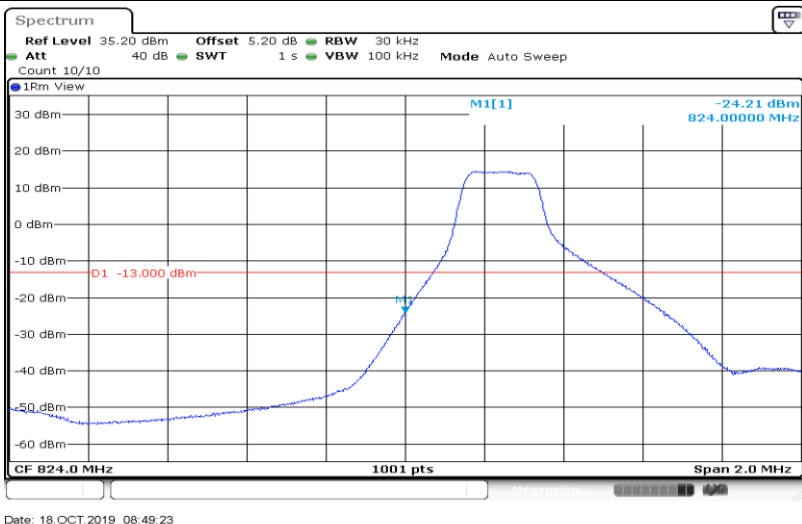


Date: 18.OCT.2019 08:51:06

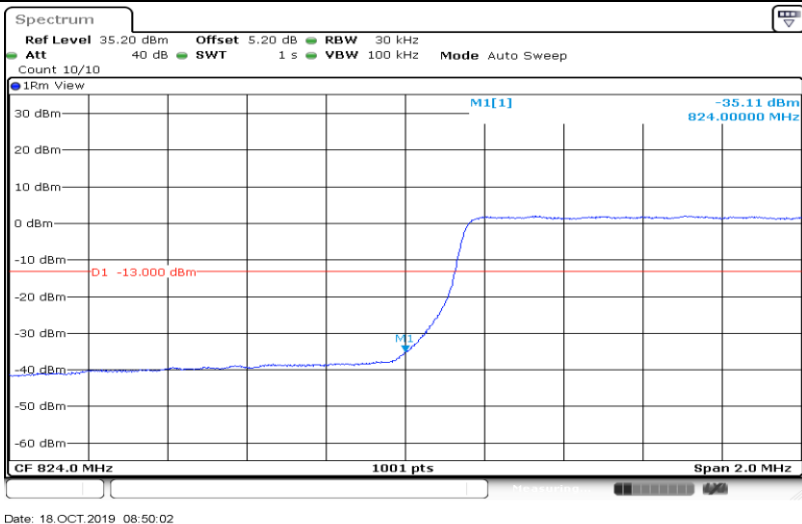
Band5-3MHz-16QAM-20415-1RB#0



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



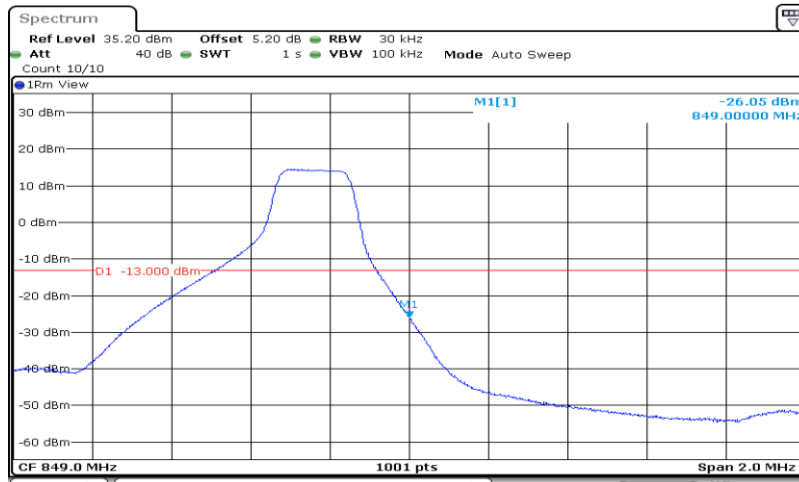
Band5-3MHz-16QAM-20635-1RB#14



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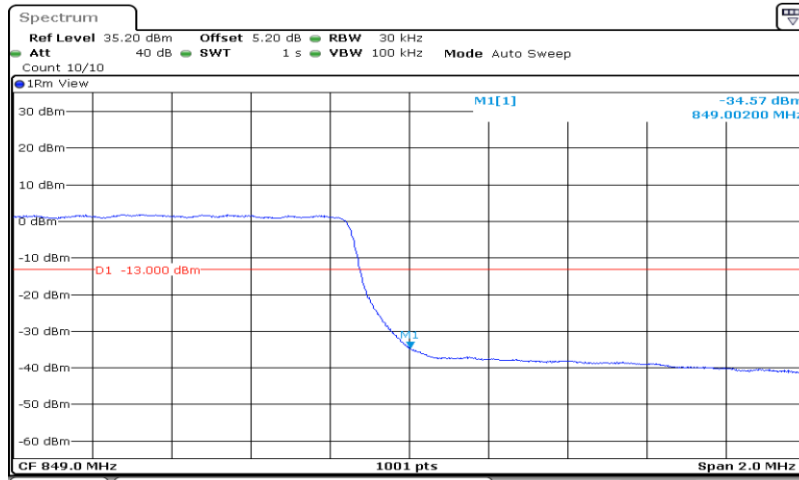
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Date: 18.OCT.2019 08:50:46

Band5-3MHz-16QAM-20635-15RB#0

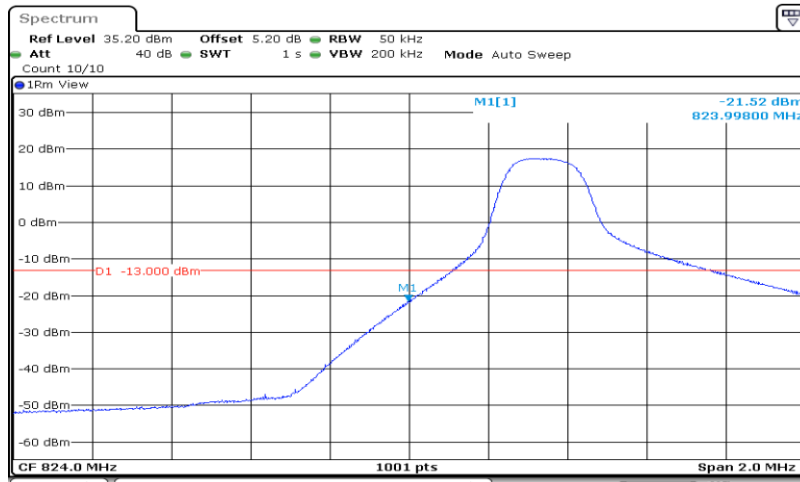


Date: 18.OCT.2019 08:51:26

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

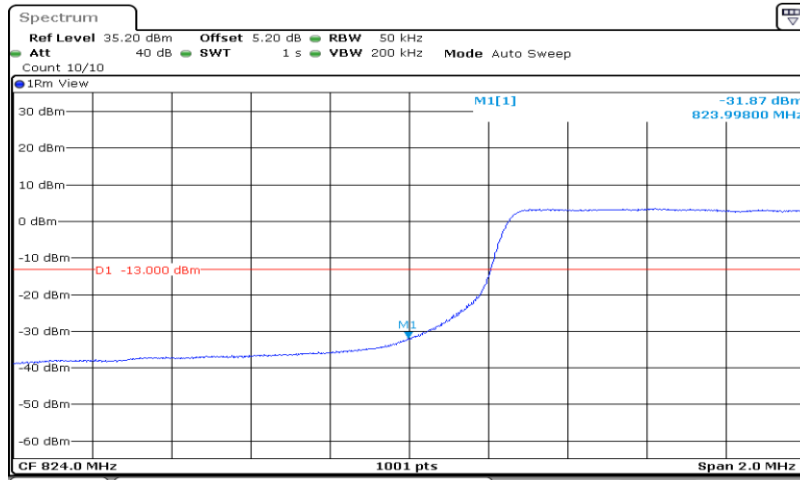


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Date: 18.OCT.2019 08:51:51

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

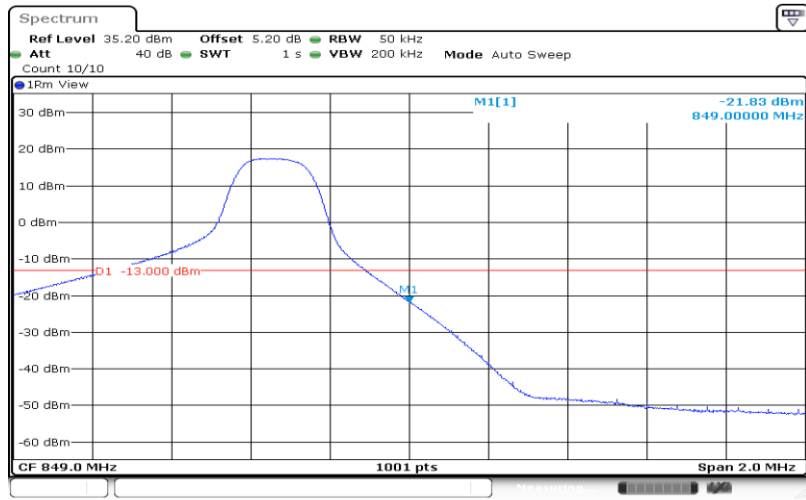


Date: 18.OCT.2019 08:52:30

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

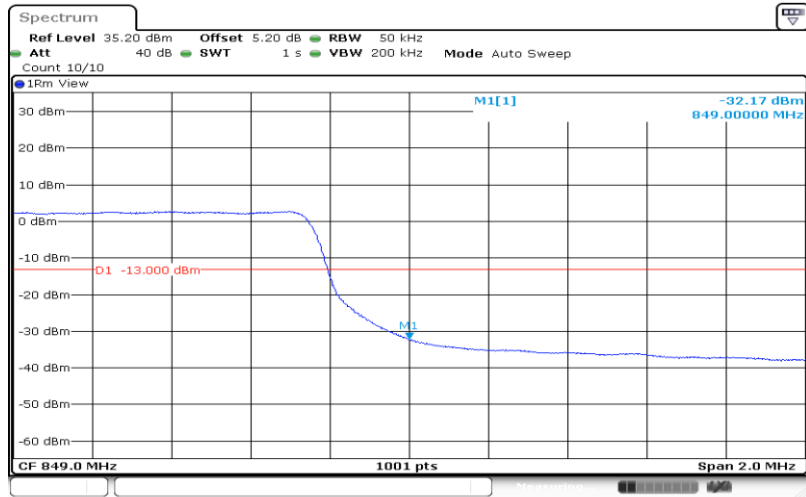


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Date: 18.OCT.2019 08:53:14

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

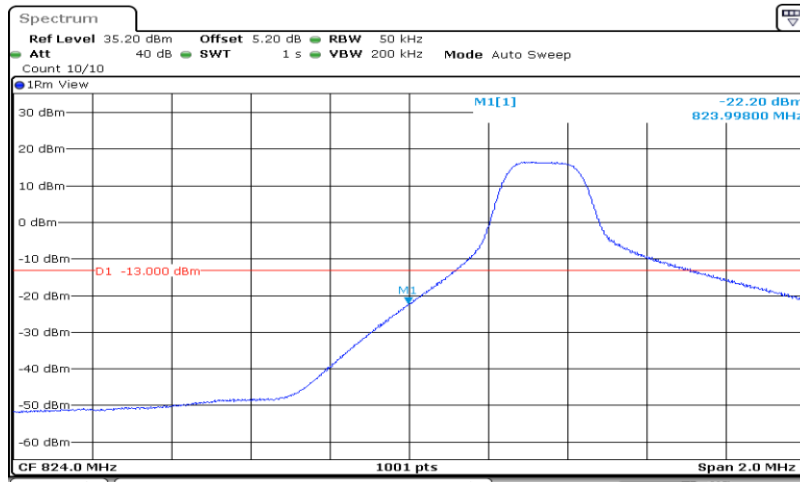


Date: 18.OCT.2019 08:53:53

Band5-5MHz-16QAM-20425-1RB#0

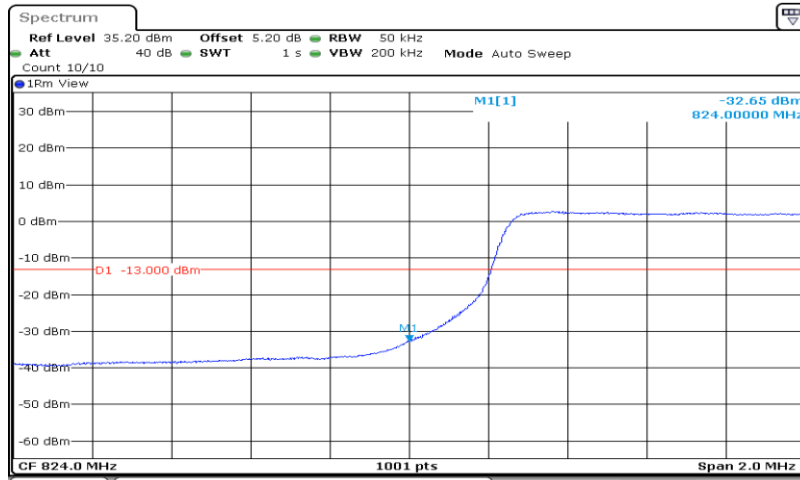


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Date: 18.OCT.2019 08:52:11

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

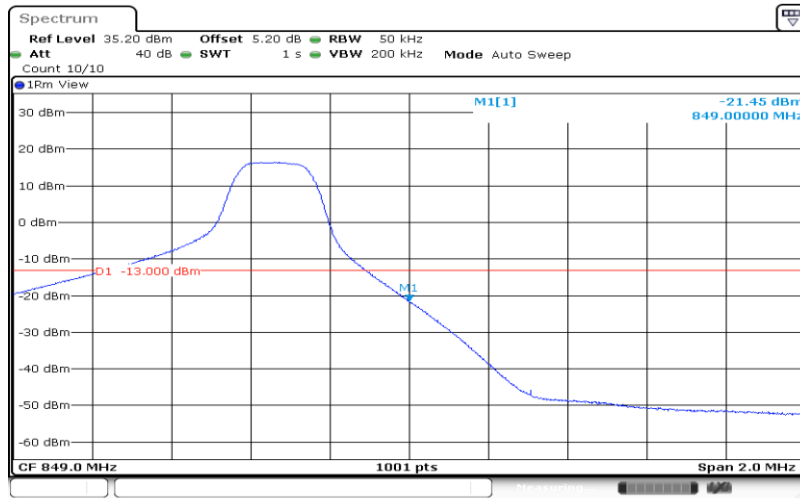


Date: 18.OCT.2019 08:52:50

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

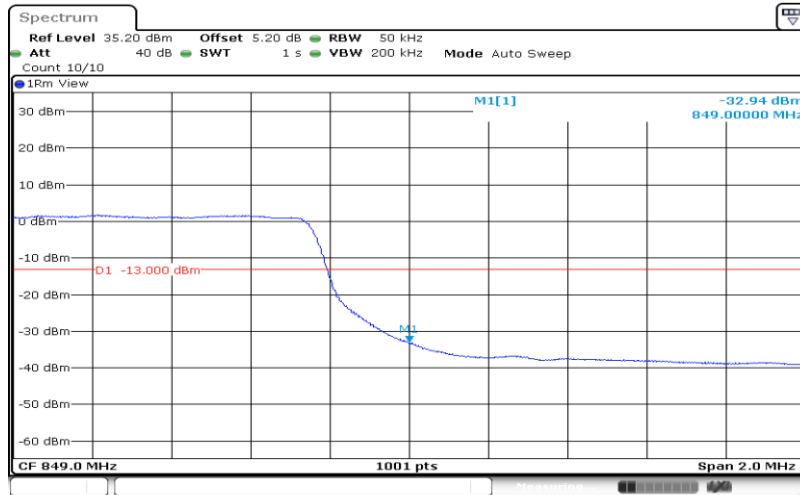


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Date: 18.OCT.2019 08:53:33

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

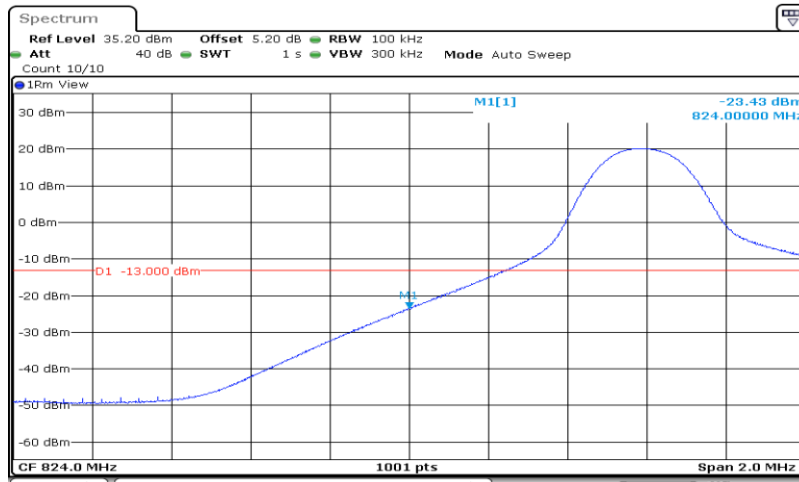


Date: 18.OCT.2019 08:54:13

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

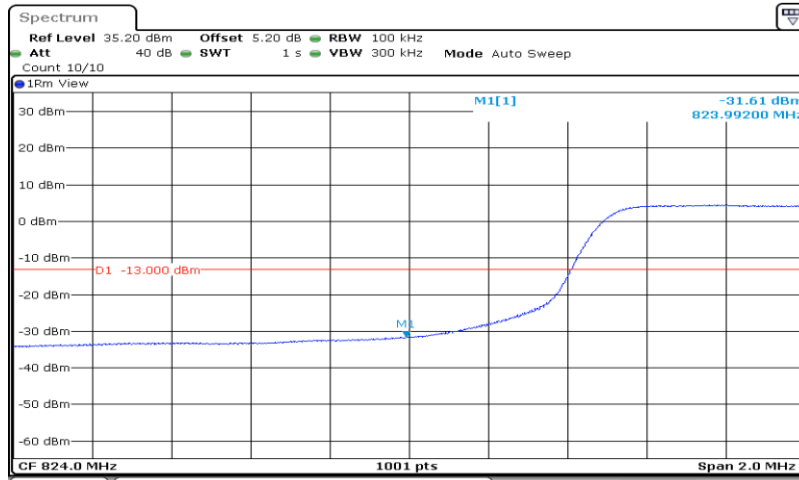


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Date: 18.OCT.2019 08:54:37

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

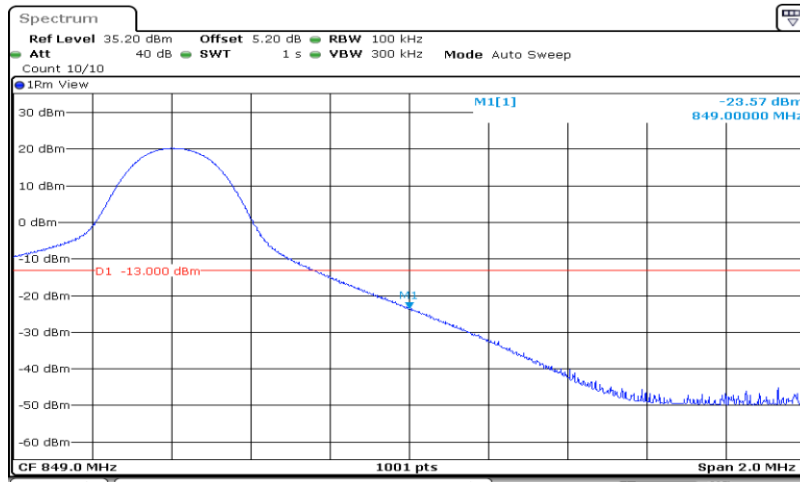


Date: 18.OCT.2019 08:55:16

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

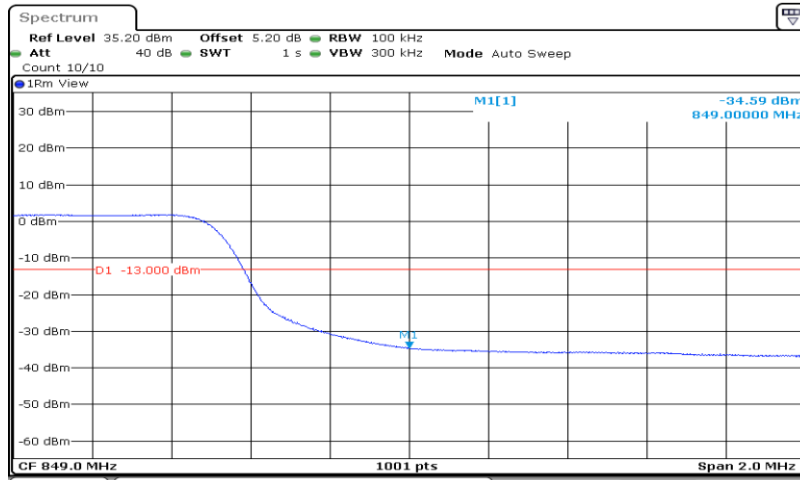


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Date: 18.OCT.2019 08:56:00

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

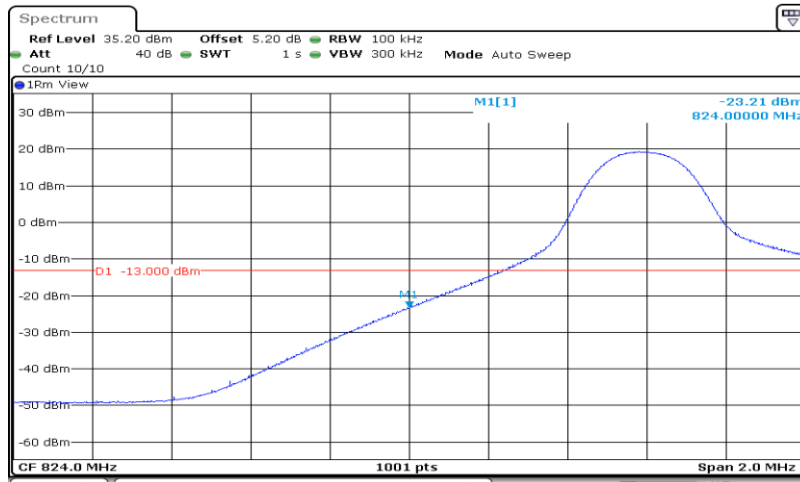


Date: 18.OCT.2019 08:56:39

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

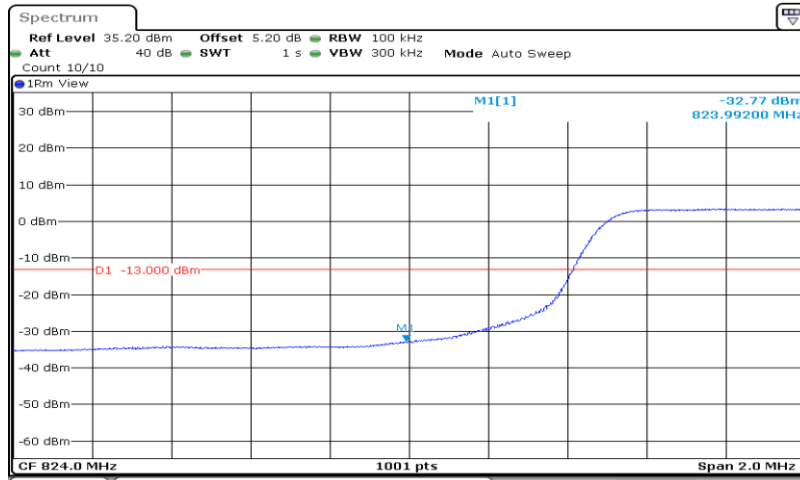


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Date: 18.OCT.2019 08:54:57

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

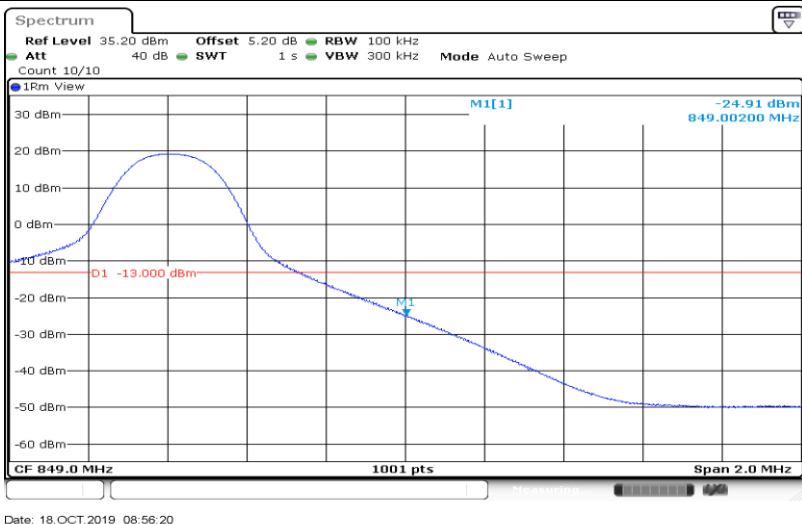


Date: 18.OCT.2019 08:55:36

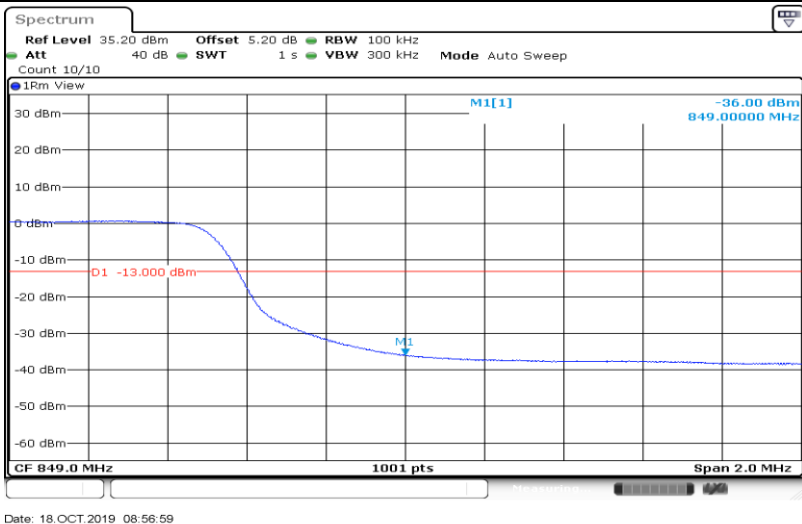
Band5-10MHz-16QAM-20600-1RB#49



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



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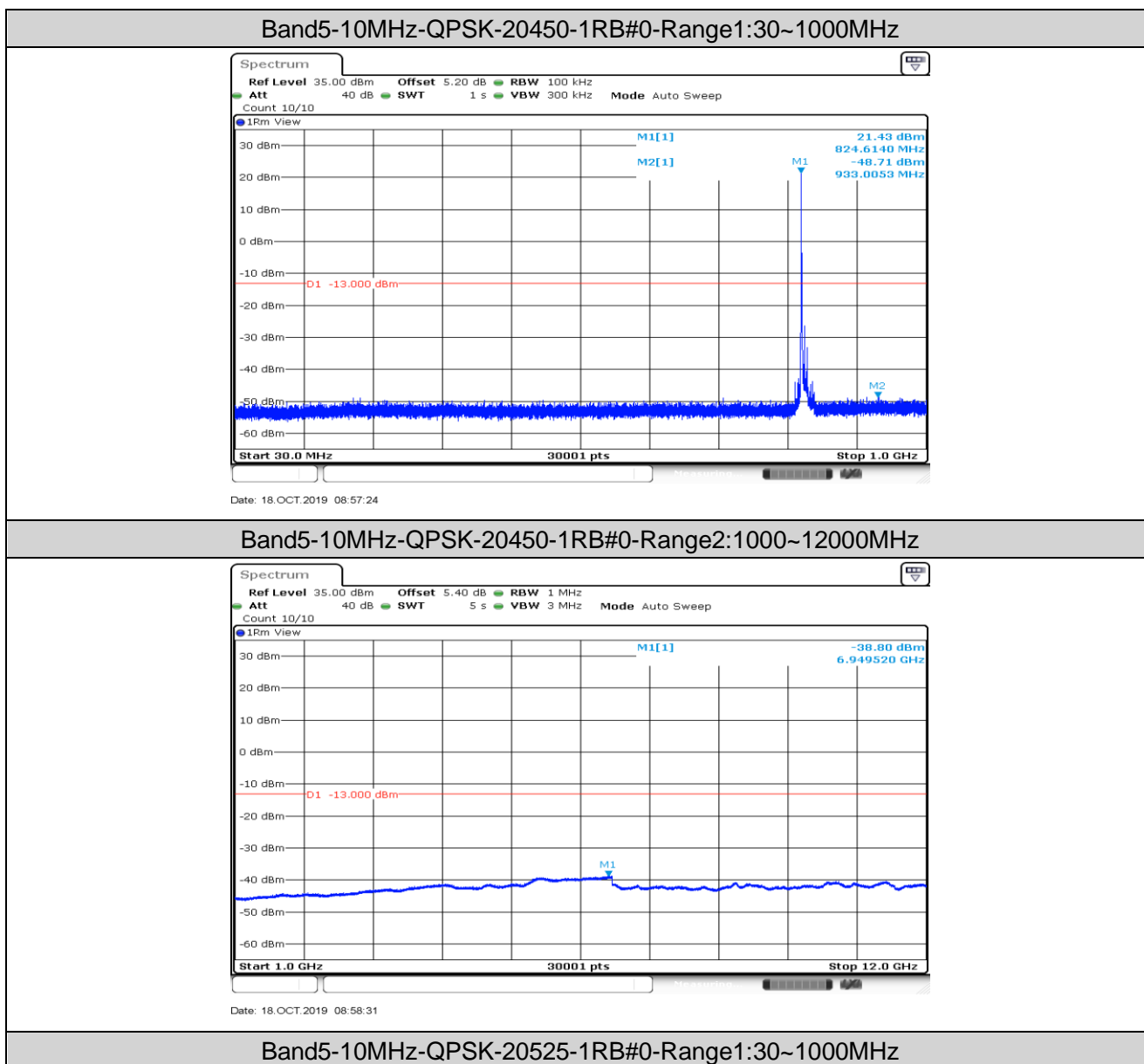
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

6. Spurious Emission at Antenna Terminal

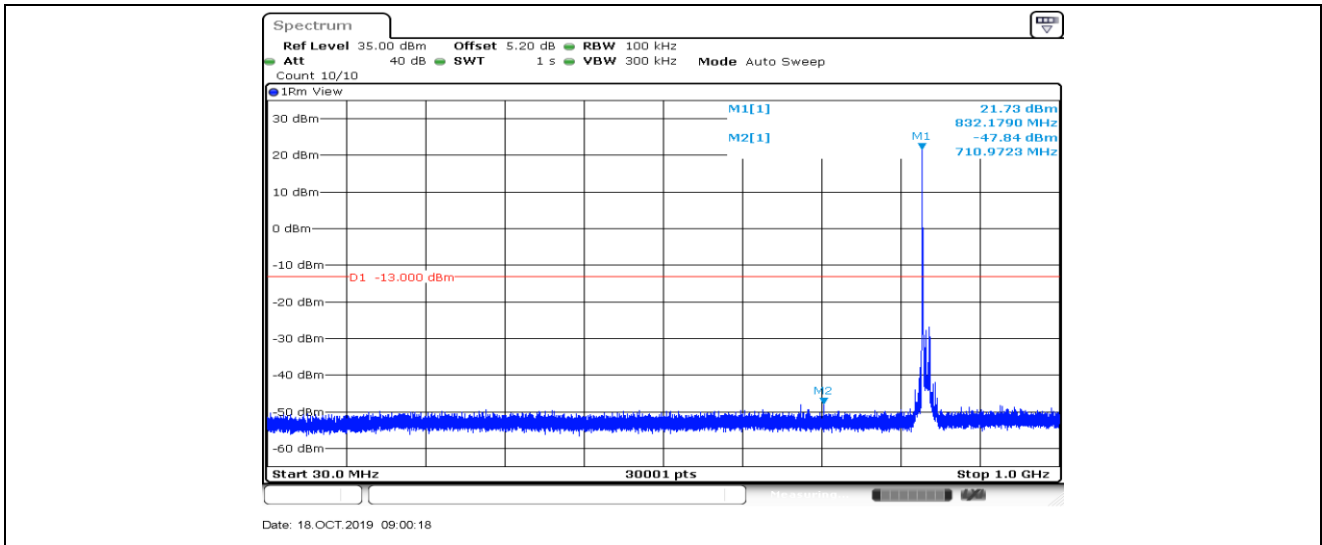
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =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

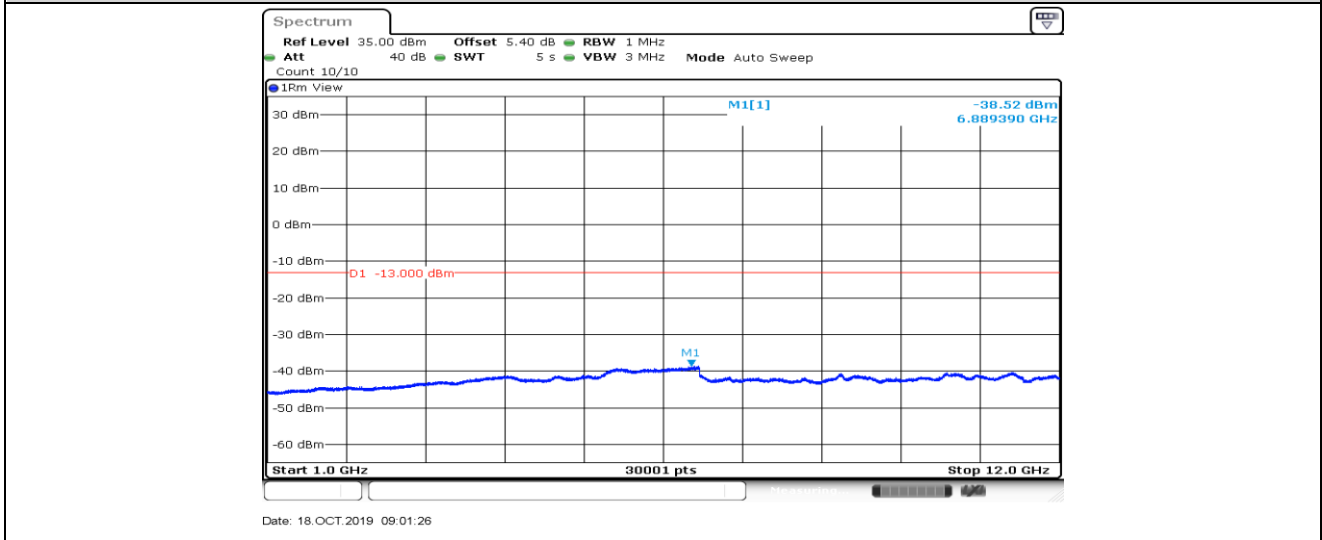
6.1. Test Plots



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Band5-10MHz-QPSK-20525-1RB#0-Range2:1000~12000MHz

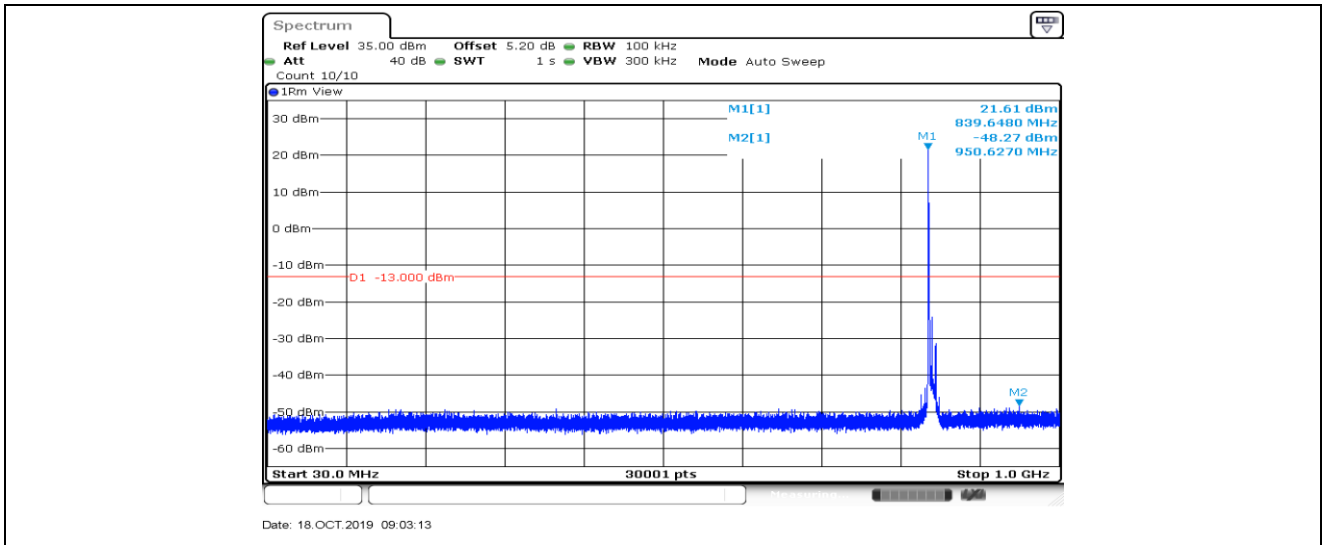


Band5-10MHz-QPSK-20600-1RB#0-Range1:30~1000MHz

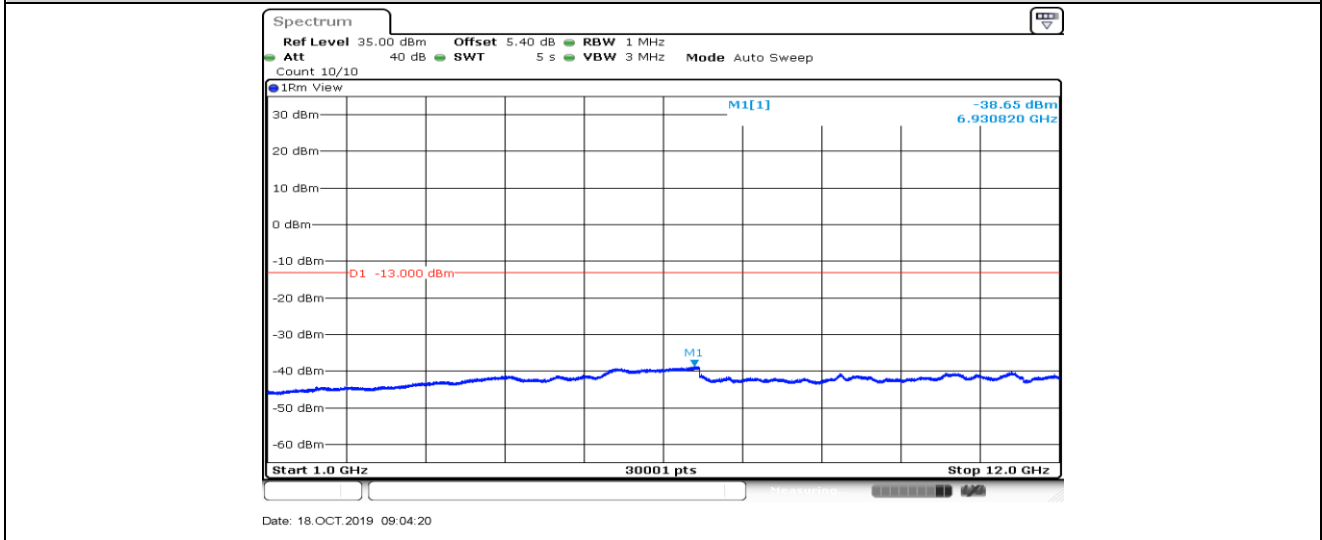


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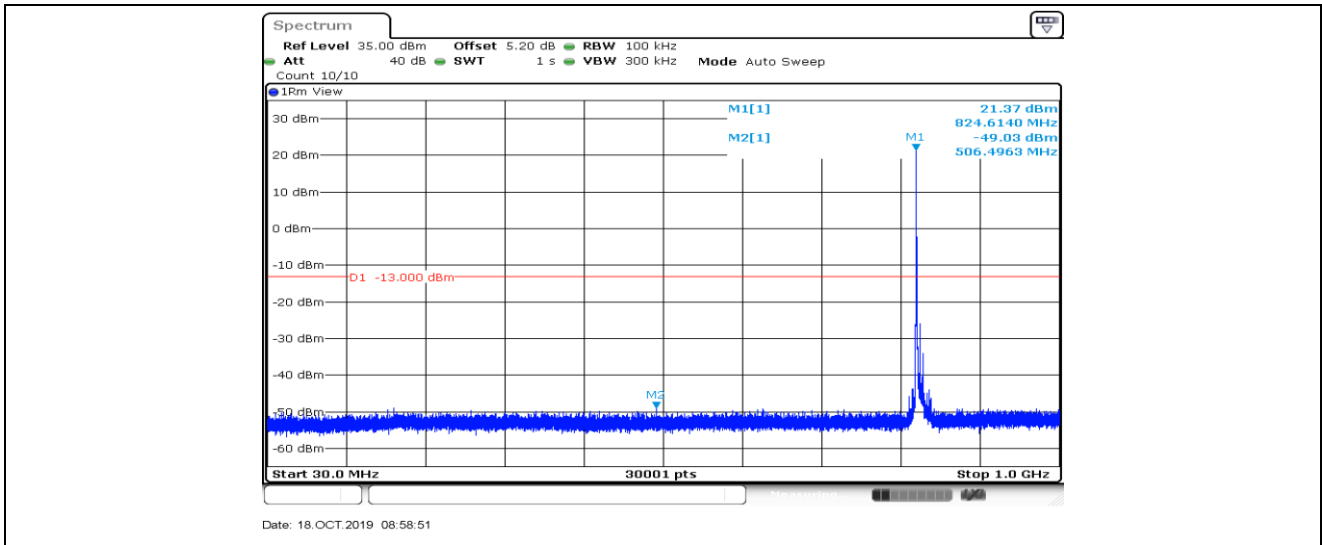
Band5-10MHz-QPSK-20600-1RB#0-Range2:1000~12000MHz



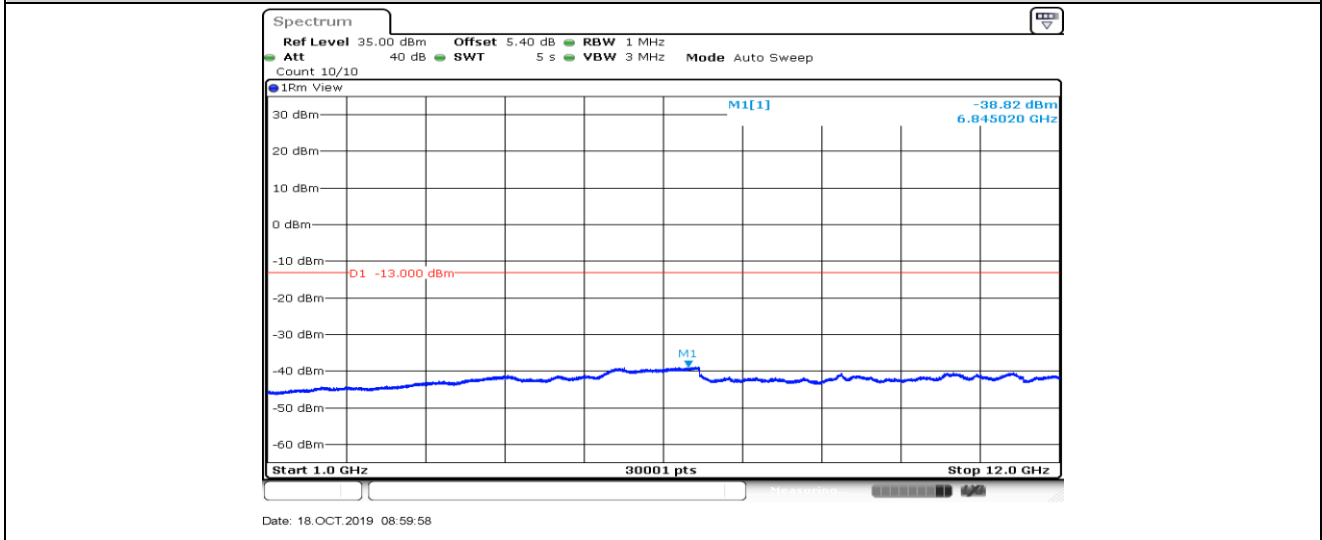
Band5-10MHz-16QAM-20450-1RB#0-Range1:30~1000MHz



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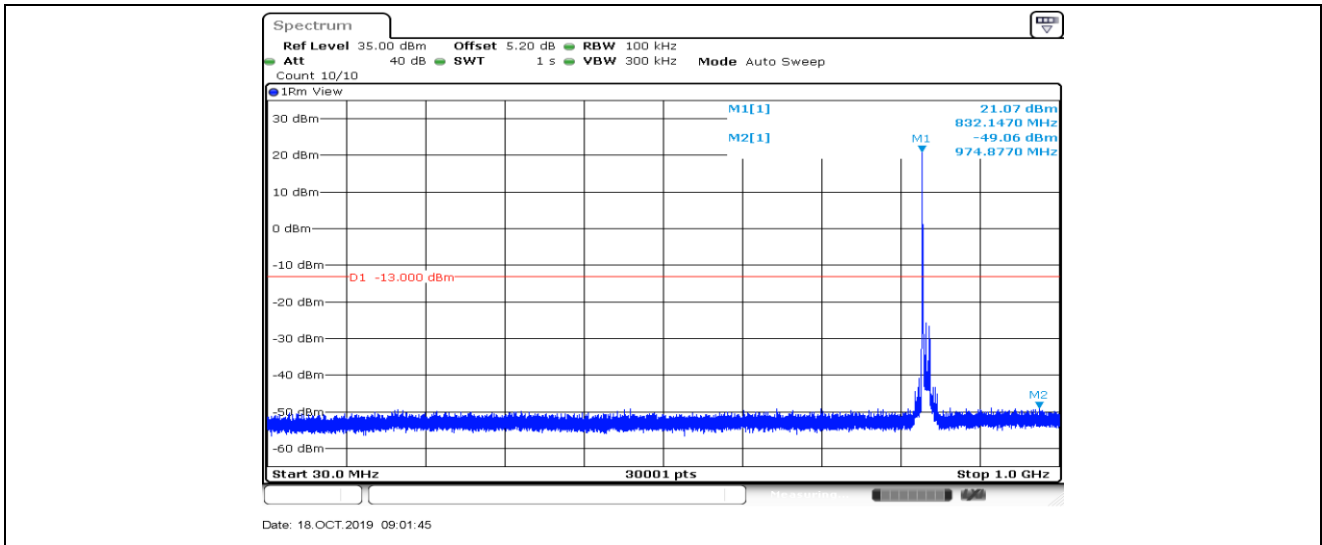
Band5-10MHz-16QAM-20450-1RB#0-Range2:1000~12000MHz



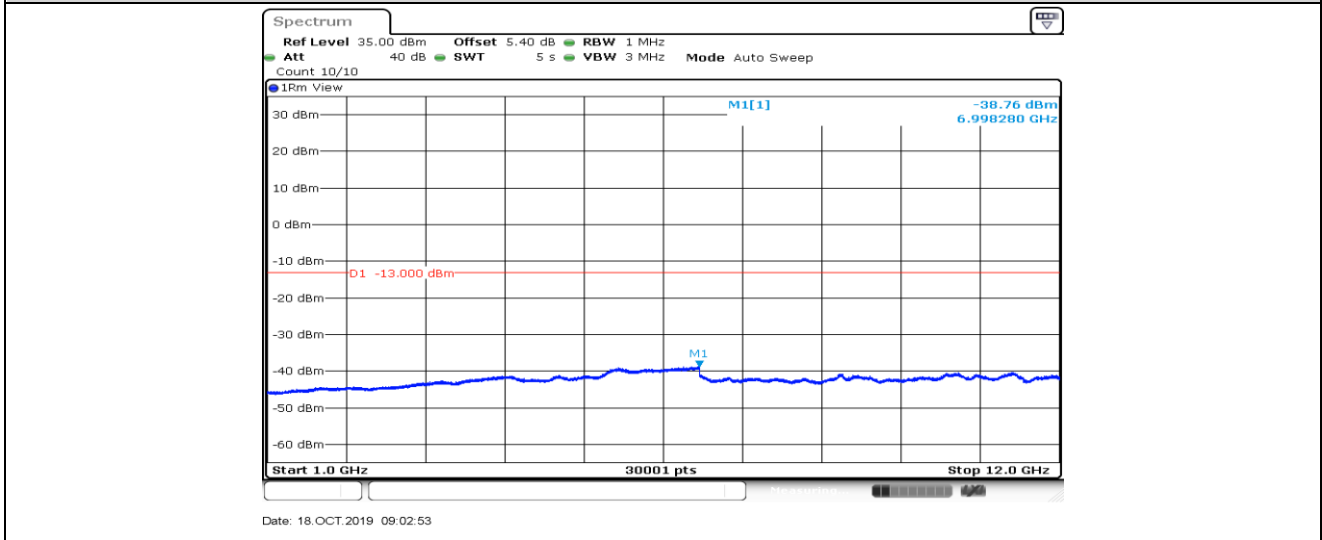
Band5-10MHz-16QAM-20525-1RB#0-Range1:30~1000MHz



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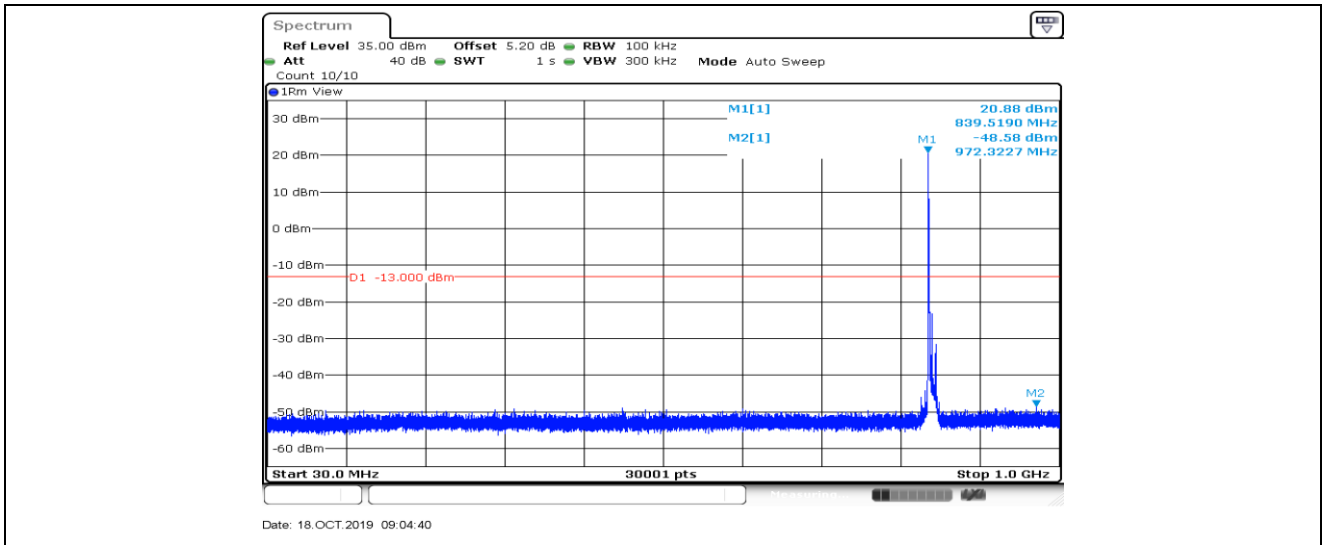
Band5-10MHz-16QAM-20525-1RB#0-Range2:1000~12000MHz



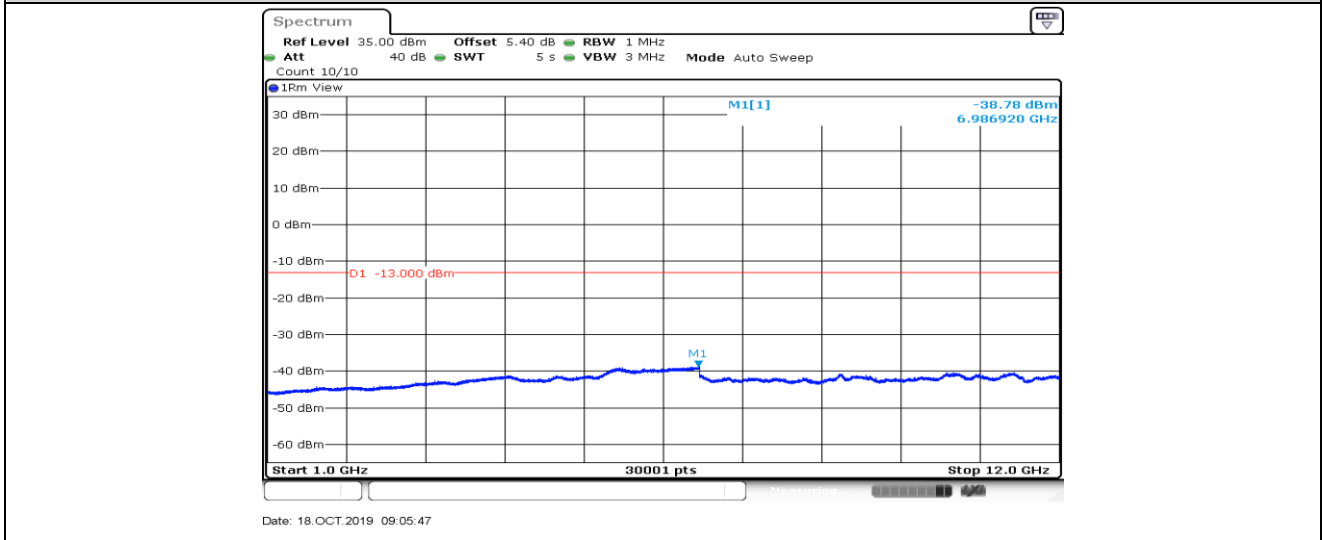
Band5-10MHz-16QAM-20600-1RB#0-Range1:30~1000MHz



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Band5-10MHz-16QAM-20600-1RB#0-Range2:1000~12000MHz



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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)	Polarization
48.7219	-68.10	-13.00	55.10	Vertical
111.7751	-61.75	-13.00	48.75	Vertical
404.9237	-64.70	-13.00	51.70	Vertical
2414.6829	-49.67	-13.00	36.67	Vertical
5600.8867	-55.67	-13.00	42.67	Vertical
8854.7952	-51.14	-13.00	38.14	Vertical
43.2412	-62.21	-13.00	49.21	Horizontal
231.6246	-62.91	-13.00	49.91	Horizontal
374.7067	-64.92	-13.00	51.92	Horizontal
1934.1868	-52.93	-13.00	39.93	Horizontal
2413.0826	-48.02	-13.00	35.02	Horizontal
8014.5672	-53.05	-13.00	40.05	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.6307	-67.00	-13.00	54.00	Vertical
110.2715	-62.39	-13.00	49.39	Vertical
487.4749	-63.25	-13.00	50.25	Vertical
2413.8828	-50.69	-13.00	37.69	Vertical
5009.6670	-55.36	-13.00	42.36	Vertical
8835.9945	-51.28	-13.00	38.28	Vertical
45.0358	-60.80	-13.00	47.80	Horizontal
83.4012	-72.76	-13.00	59.76	Horizontal
229.3450	-65.04	-13.00	52.04	Horizontal
1926.9854	-51.31	-13.00	38.31	Horizontal
2414.2829	-48.31	-13.00	35.31	Horizontal
7486.7496	-52.95	-13.00	39.95	Horizontal



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7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
50.5165	-69.74	-13.00	56.74	Vertical
120.5540	-61.15	-13.00	48.15	Vertical
433.0552	-63.84	-13.00	50.84	Vertical
2413.8828	-49.72	-13.00	36.72	Vertical
5625.6875	-55.40	-13.00	42.40	Vertical
8882.9961	-51.58	-13.00	38.58	Vertical
42.4651	-61.22	-13.00	48.22	Horizontal
231.1881	-64.28	-13.00	51.28	Horizontal
443.9682	-64.11	-13.00	51.11	Horizontal
2414.2829	-49.33	-13.00	36.33	Horizontal
5696.4899	-55.16	-13.00	42.16	Horizontal
8789.1930	-51.60	-13.00	38.60	Horizontal

Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.
- 3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.



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8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	VL	NT	-1.70	-0.002051	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	-6.20	-0.007479	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	-3.70	-0.004463	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-5.10	-0.006097	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-8.30	-0.009922	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-5.00	-0.005977	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	-8.80	-0.010427	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	-5.60	-0.006635	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	-9.10	-0.010782	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VL	NT	-7.50	-0.009047	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VN	NT	-7.70	-0.009288	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VH	NT	-6.70	-0.008082	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VL	NT	-6.00	-0.007173	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VN	NT	-6.30	-0.007531	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VH	NT	-9.20	-0.010998	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VL	NT	-5.50	-0.006517	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VN	NT	-4.00	-0.004739	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VH	NT	-2.00	-0.002370	±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	-14.30	-0.017250	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	-2.60	-0.003136	±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	-0.60	-0.000724	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	-3.90	-0.004704	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	-11.60	-0.013993	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	-8.20	-0.009891	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	-5.80	-0.006996	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	-6.00	-0.007173	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-10.60	-0.012672	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-7.90	-0.009444	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-6.60	-0.007890	±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	-7.60	-0.009085	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-4.60	-0.005499	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-4.00	-0.004782	±2.5	PASS



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Band5	10MHz	QPSK	20600	50RB#0	NV	-30	-5.50	-0.006517	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	-3.60	-0.004265	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	-9.20	-0.010900	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	-11.10	-0.013152	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	-6.70	-0.007938	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	-0.40	-0.000474	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	-6.40	-0.007583	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	-3.90	-0.004621	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-30	-5.60	-0.006755	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-20	-1.00	-0.001206	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	0	-9.10	-0.010977	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	10	-7.70	-0.009288	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	20	-4.20	-0.005066	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	30	-10.00	-0.012063	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	40	-6.10	-0.007358	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	50	-2.80	-0.003378	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-30	-5.90	-0.007053	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-20	-4.80	-0.005738	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	0	-2.20	-0.002630	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	10	-0.60	-0.000717	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	20	-7.30	-0.008727	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	30	-4.00	-0.004782	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	40	-7.60	-0.009085	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	50	-1.70	-0.002032	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-30	-3.20	-0.003791	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-20	-9.50	-0.011256	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	0	-3.40	-0.004028	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	10	-8.50	-0.010071	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	20	-6.50	-0.007701	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	30	-6.10	-0.007227	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	40	-5.10	-0.006043	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	50	-4.30	-0.005095	±2.5	PASS

The End



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