



# 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	24.02	17.66	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	24.14	17.78	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	24.02	17.66	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	24.13	17.77	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	24.18	17.82	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	24.17	17.81	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	23.19	16.83	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	24.02	17.66	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	24.02	17.66	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	24.15	17.79	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	24.12	17.76	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	24.20	17.84	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	24.11	17.75	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	23.18	16.82	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	24.04	17.68	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	24.03	17.67	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	24.17	17.81	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	24.14	17.78	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	24.20	17.84	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	24.14	17.78	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	23.20	16.84	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	23.25	16.89	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	23.48	17.12	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	23.23	16.87	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	23.26	16.90	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	23.22	16.86	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	23.26	16.90	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	22.25	15.89	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	23.25	16.89	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	23.36	17.00	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	23.30	16.94	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	23.18	16.82	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	23.26	16.90	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	23.26	16.90	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	22.24	15.88	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	23.37	17.01	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	23.35	16.99	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	23.30	16.94	38.45	PASS



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Band5	1.4MHz	16QAM	20643	3RB#0	23.24	16.88	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	23.27	16.91	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	23.28	16.92	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	22.27	15.91	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	24.10	17.74	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	24.11	17.75	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	24.11	17.75	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#0	23.19	16.83	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#4	23.22	16.86	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#7	23.19	16.83	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	23.20	16.84	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	24.12	17.76	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	24.14	17.78	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	24.10	17.74	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#7	23.21	16.85	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#0	23.22	16.86	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#4	23.27	16.91	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	23.22	16.86	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	24.11	17.75	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	24.10	17.74	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	24.11	17.75	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#0	23.25	16.89	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#7	23.23	16.87	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#4	23.25	16.89	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	23.21	16.85	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	23.33	16.97	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	23.36	17.00	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	23.39	17.03	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#7	22.23	15.87	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#4	22.27	15.91	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#0	22.23	15.87	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	22.14	15.78	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	23.35	16.99	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	23.35	16.99	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	23.36	17.00	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#7	22.25	15.89	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#0	22.26	15.90	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#4	22.29	15.93	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	22.19	15.83	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	23.45	17.09	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	23.29	16.93	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	23.30	16.94	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#0	22.25	15.89	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#4	22.27	15.91	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#7	22.22	15.86	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	22.20	15.84	38.45	PASS



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Band5	5MHz	QPSK	20425	1RB#0	23.99	17.63	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	24.26	17.90	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	24.02	17.66	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#0	23.17	16.81	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#6	23.23	16.87	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#13	23.22	16.86	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	23.18	16.82	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	24.01	17.65	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	24.01	17.65	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	24.25	17.89	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#0	23.22	16.86	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#6	23.28	16.92	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#13	23.19	16.83	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	23.23	16.87	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	24.01	17.65	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.97	17.61	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	24.29	17.93	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#0	23.20	16.84	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#6	23.25	16.89	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#13	23.18	16.82	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	23.21	16.85	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	23.35	16.99	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	23.46	17.10	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	23.23	16.87	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#6	22.24	15.88	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#0	22.18	15.82	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#13	22.25	15.89	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	22.16	15.80	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	23.30	16.94	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	23.54	17.18	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	23.22	16.86	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#13	22.17	15.81	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#0	22.22	15.86	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#6	22.28	15.92	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	22.21	15.85	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	23.49	17.13	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	23.27	16.91	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	23.24	16.88	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#0	22.18	15.82	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#6	22.24	15.88	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#13	22.15	15.79	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	22.16	15.80	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	24.10	17.74	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	24.27	17.91	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	24.09	17.73	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#0	23.20	16.84	38.45	PASS



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Band5	10MHz	QPSK	20450	25RB#12	23.25	16.89	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#25	23.23	16.87	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	23.21	16.85	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	24.12	17.76	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	24.12	17.76	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	24.24	17.88	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#25	23.27	16.91	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#0	23.31	16.95	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#12	23.26	16.90	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	23.31	16.95	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	24.24	17.88	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	24.15	17.79	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	24.09	17.73	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#0	23.33	16.97	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#25	23.21	16.85	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#12	23.26	16.90	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	23.31	16.95	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	23.43	17.07	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	23.47	17.11	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	23.43	17.07	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#25	22.21	15.85	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#12	22.21	15.85	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#0	22.19	15.83	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	22.20	15.84	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	23.30	16.94	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.44	17.08	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	23.40	17.04	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#25	22.25	15.89	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#0	22.26	15.90	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#12	22.24	15.88	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	22.26	15.90	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	23.52	17.16	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	23.47	17.11	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	23.26	16.90	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#0	22.30	15.94	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#12	22.23	15.87	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#25	22.19	15.83	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	22.26	15.90	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	4.70	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	4.72	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	4.72	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.43	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.41	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.43	13	PASS

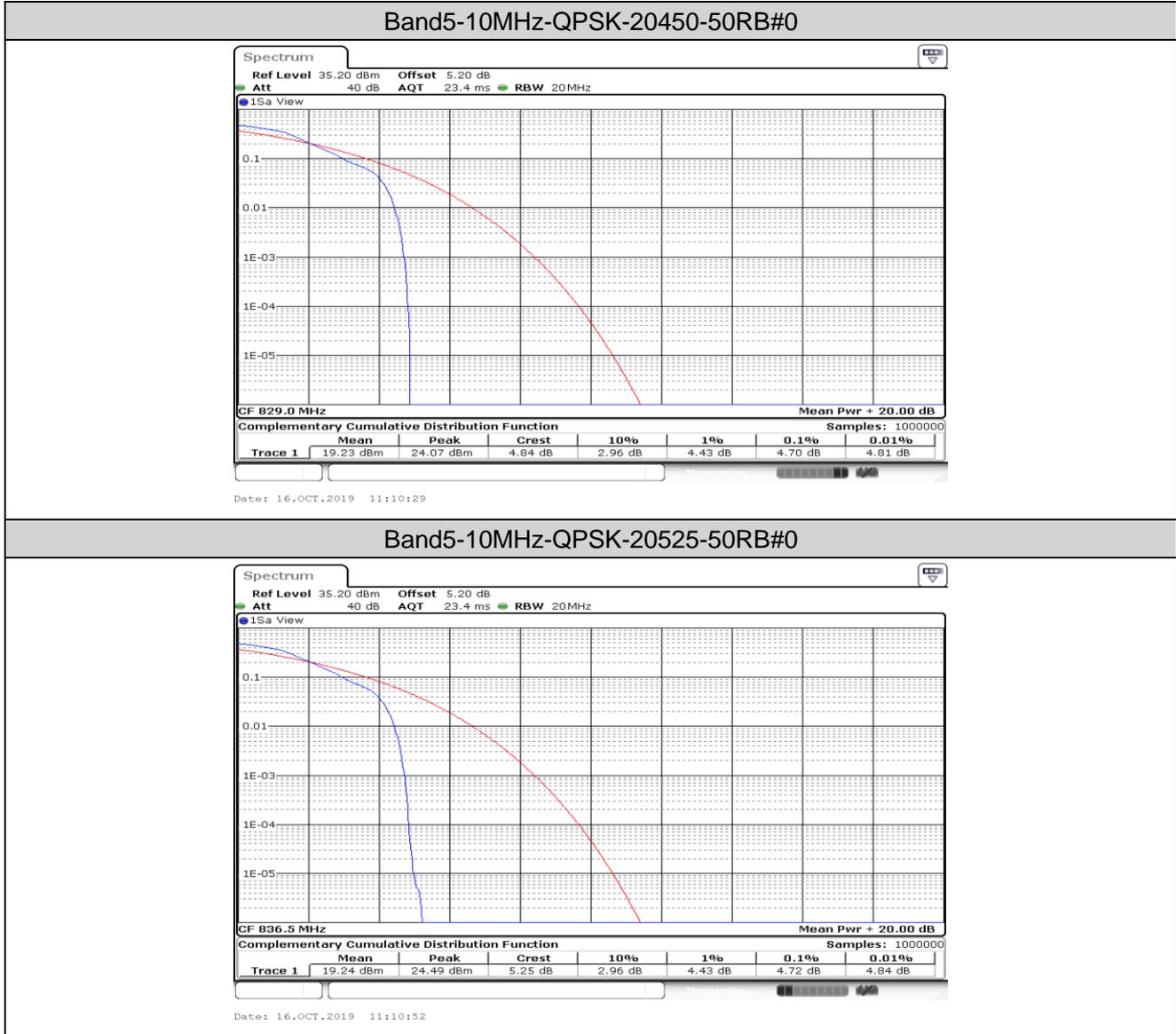


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## 2.2. Test Plots

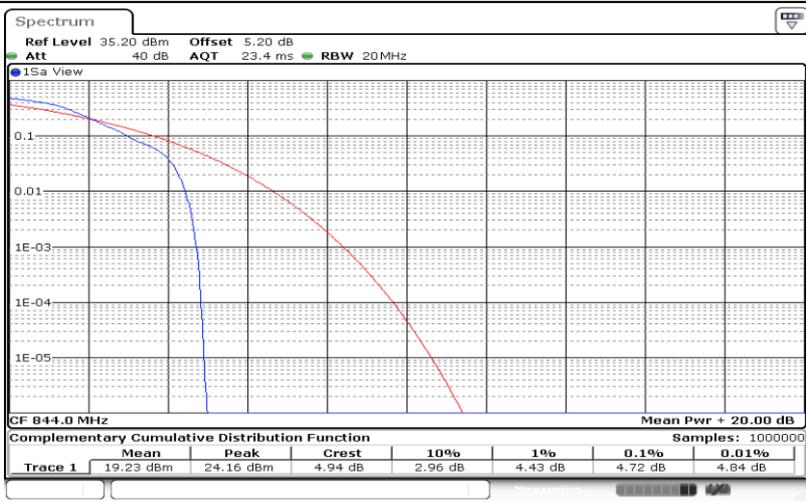


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**Band5-10MHz-QPSK-20600-50RB#0**



Date: 16.OCT.2019 11:11:15

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



Date: 16.OCT.2019 11:10:41



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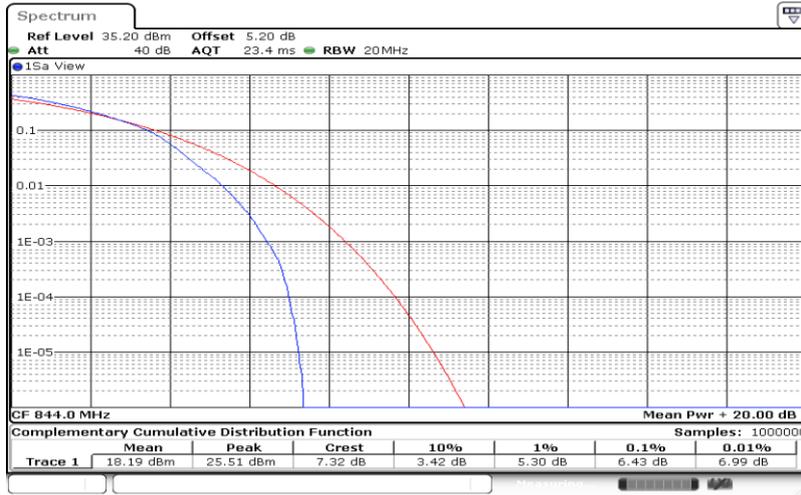


**Band5-10MHz-16QAM-20525-50RB#0**



Date: 16.OCT.2019 11:11:04

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



Date: 16.OCT.2019 11:11:27



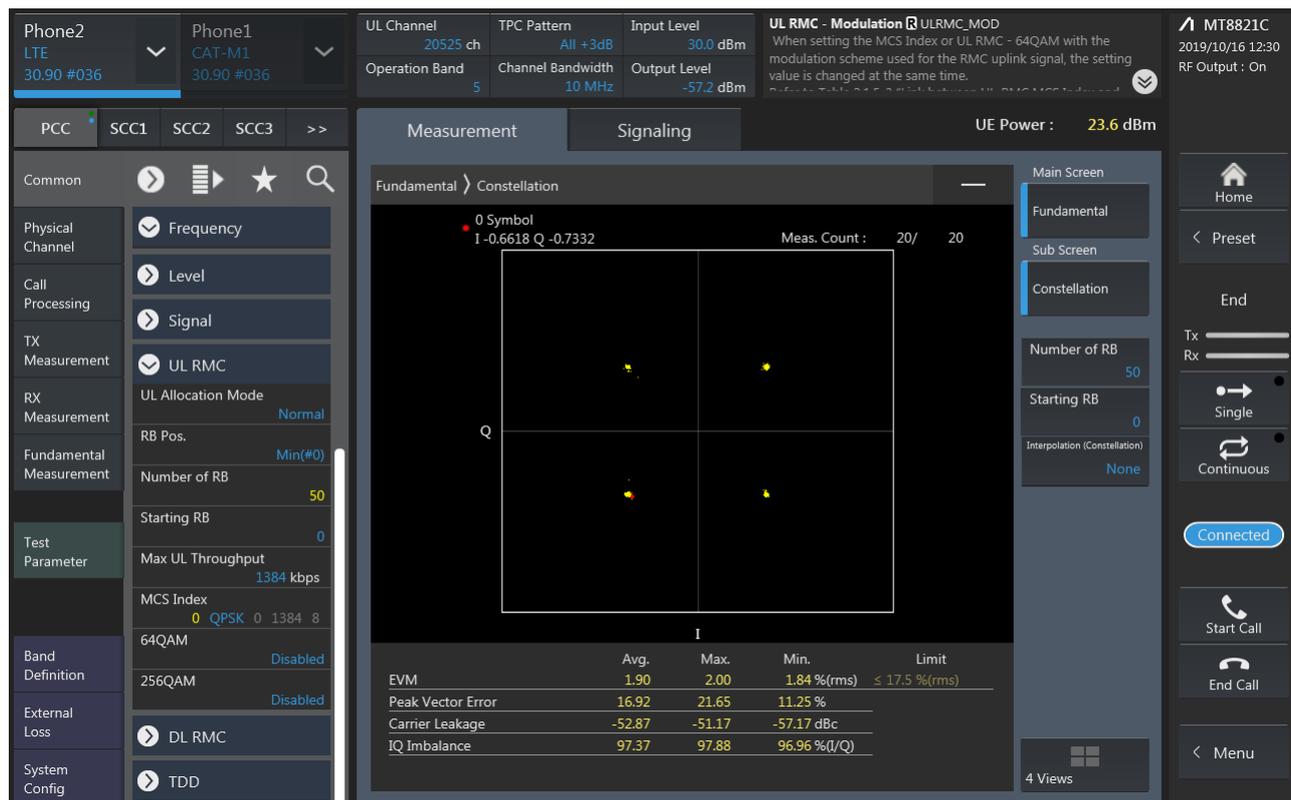
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### 3. Modulation Characteristics

#### 3.1. Test Mode = LTE /TM1 10MHz

##### 3.1.1. Test Channel = MCH

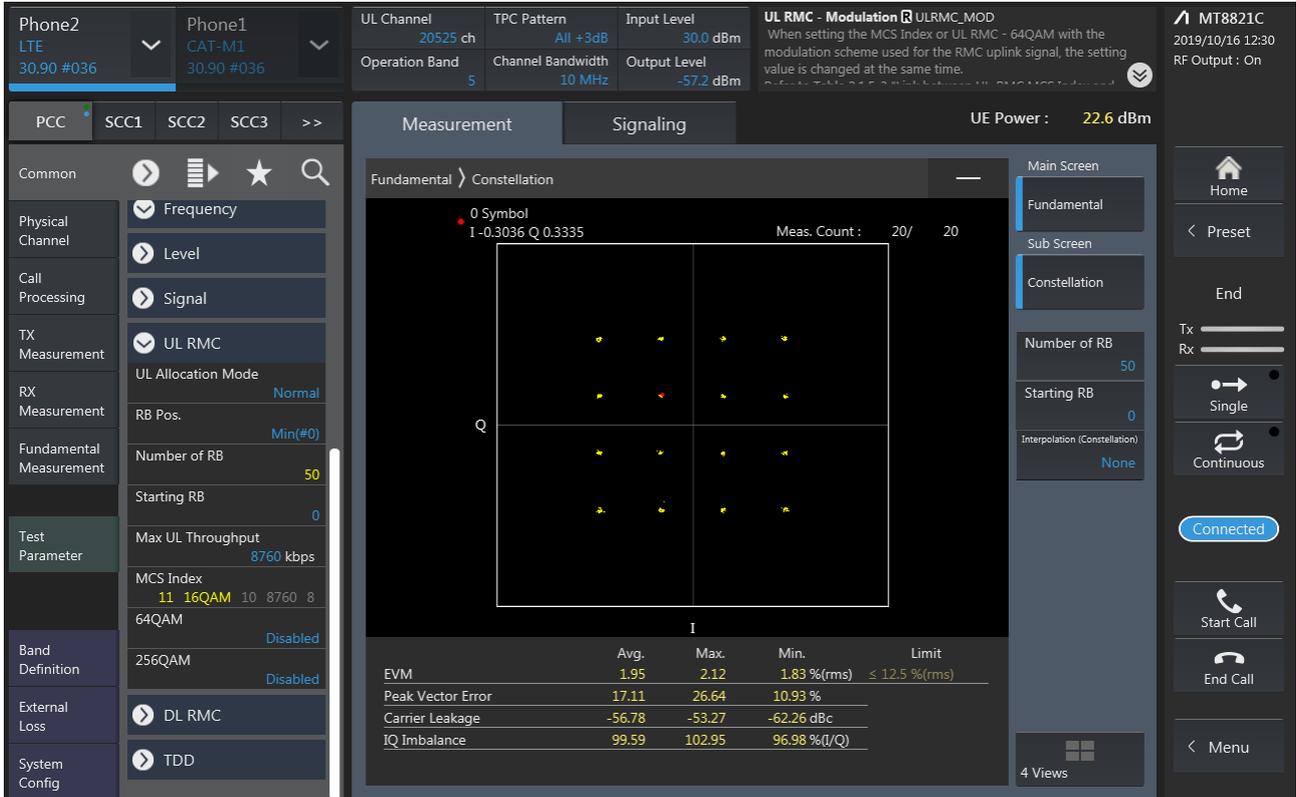


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### 3.2. Test Mode = LTE /TM2 10MHz

#### 3.2.1. Test Channel = MCH



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## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

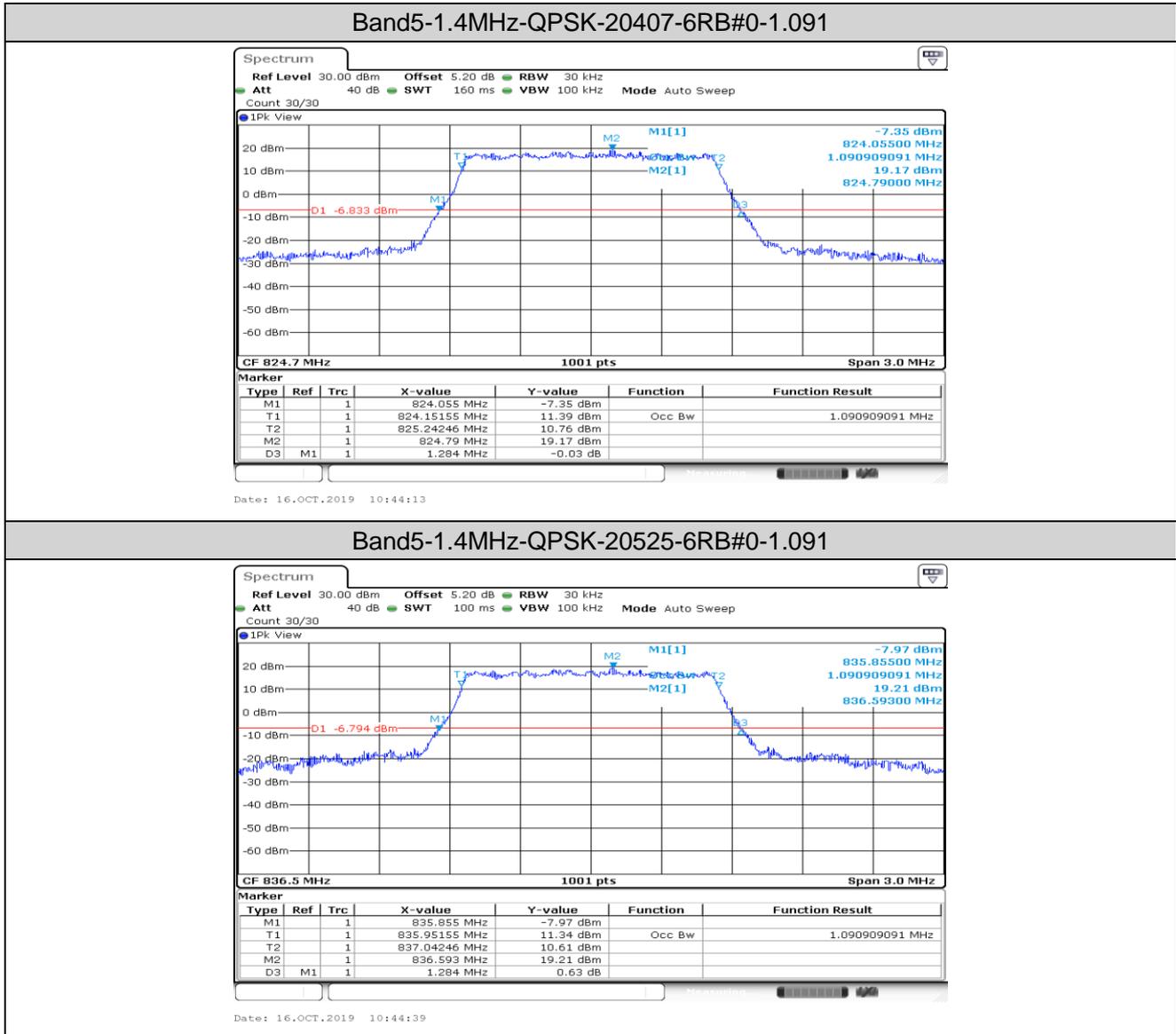
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.091	1.284	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.091	1.284	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.091	1.287	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.085	1.287	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.091	1.284	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.091	1.287	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.691	2.910	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.691	2.916	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.685	2.922	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.673	2.904	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.673	2.904	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.673	2.910	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	4.466	4.820	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.476	4.930	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.486	4.860	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.486	4.860	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.931	9.580	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.931	9.620	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.931	9.580	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.911	9.560	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.931	9.640	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.911	9.580	PASS



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### 4.2. Test Plots



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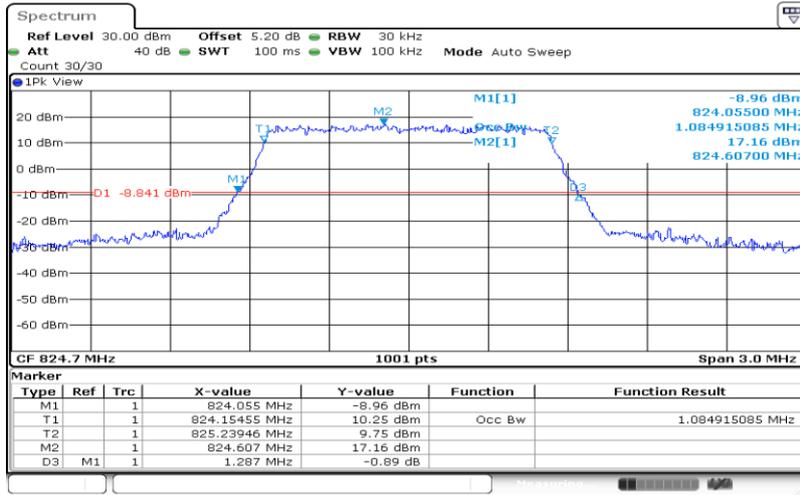


Band5-1.4MHz-QPSK-20643-6RB#0-1.091



Date: 16.OCT.2019 10:45:05

Band5-1.4MHz-16QAM-20407-6RB#0-1.085



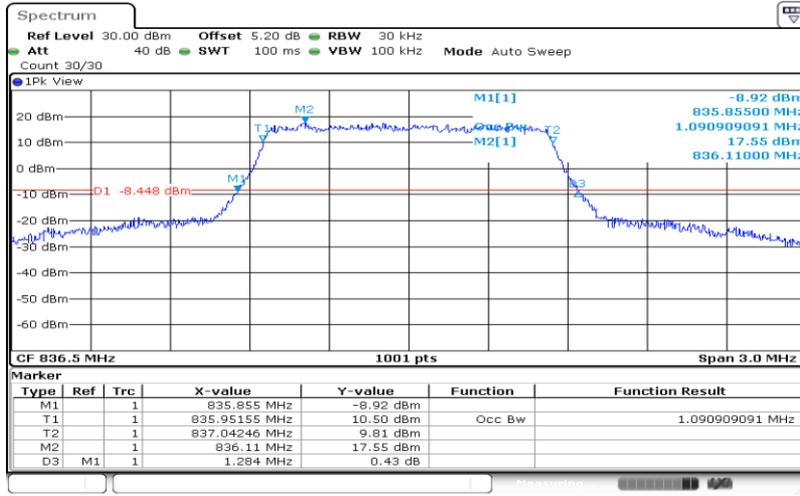
Date: 16.OCT.2019 10:44:26



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



Date: 16.OCT.2019 10:44:52

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



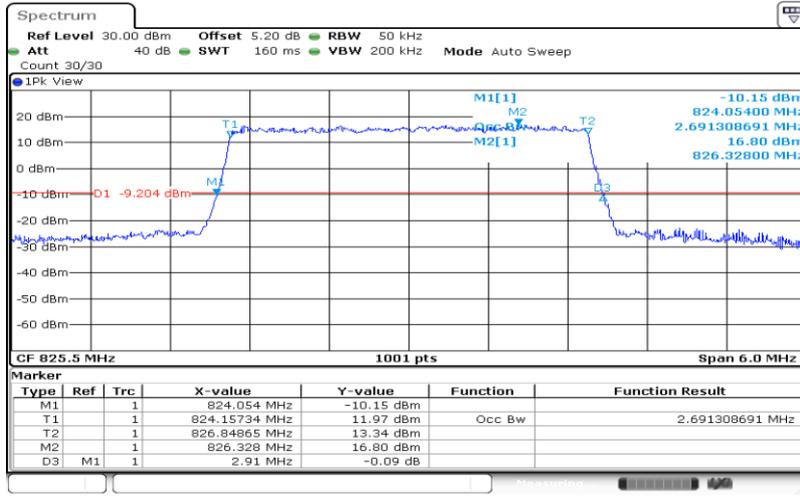
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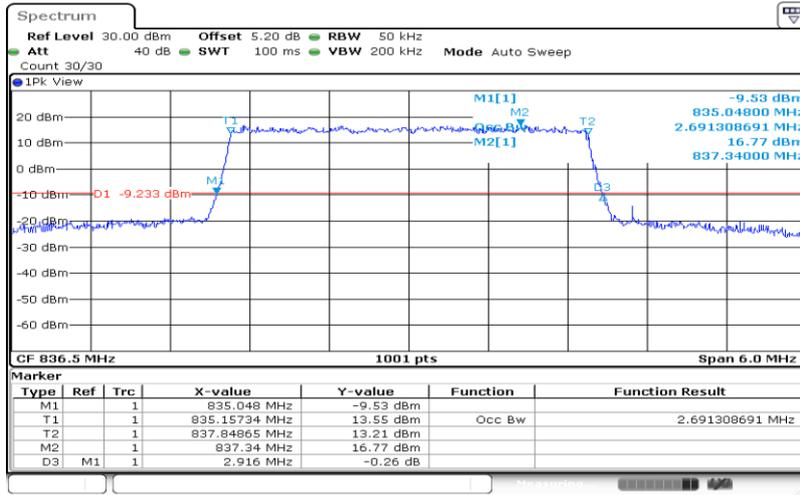
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Band5-3MHz-QPSK-20415-15RB#0-2.691



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

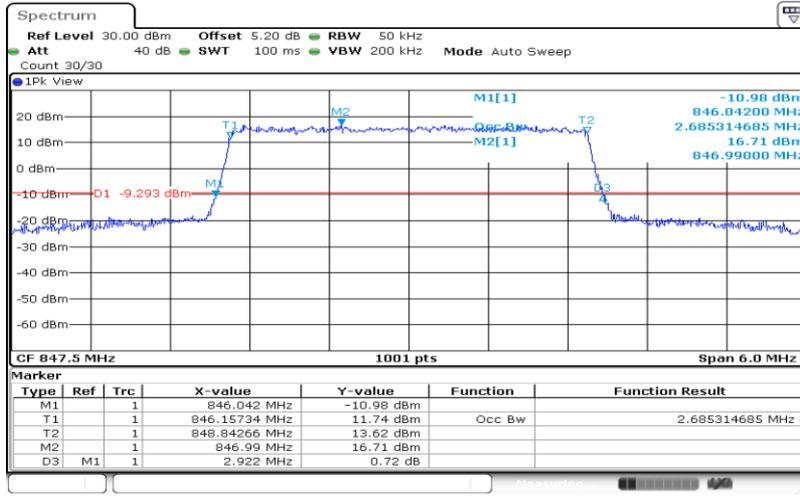


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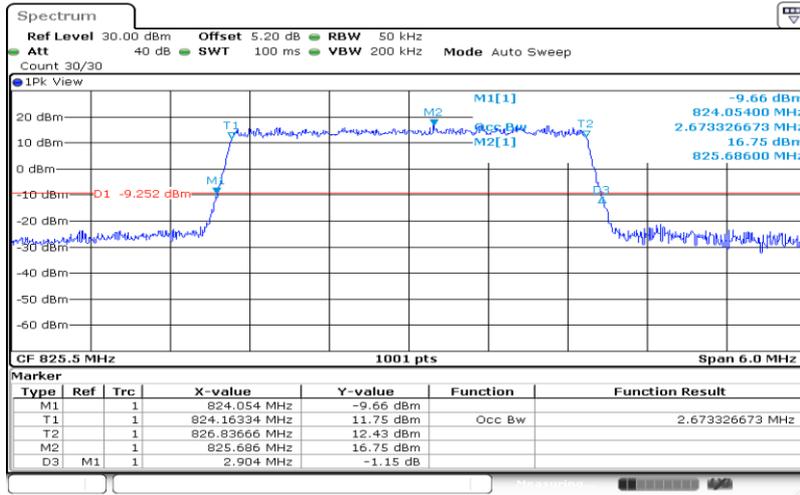


Band5-3MHz-QPSK-20635-15RB#0-2.685



Date: 16.OCT.2019 10:46:30

Band5-3MHz-16QAM-20415-15RB#0-2.673

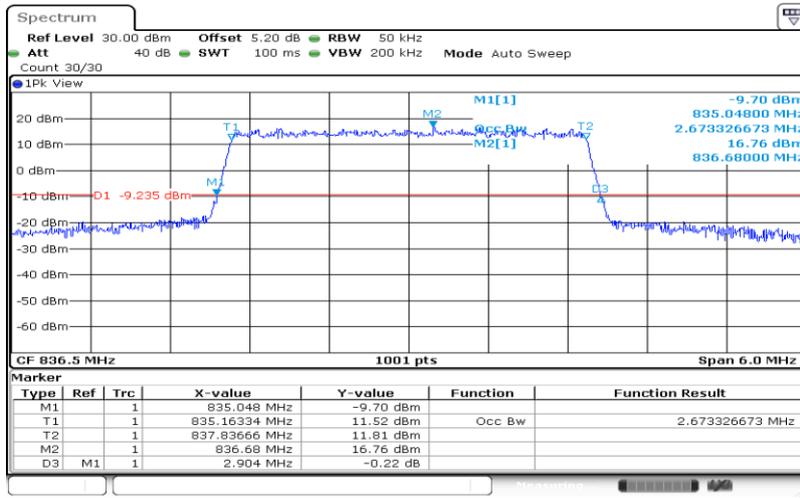


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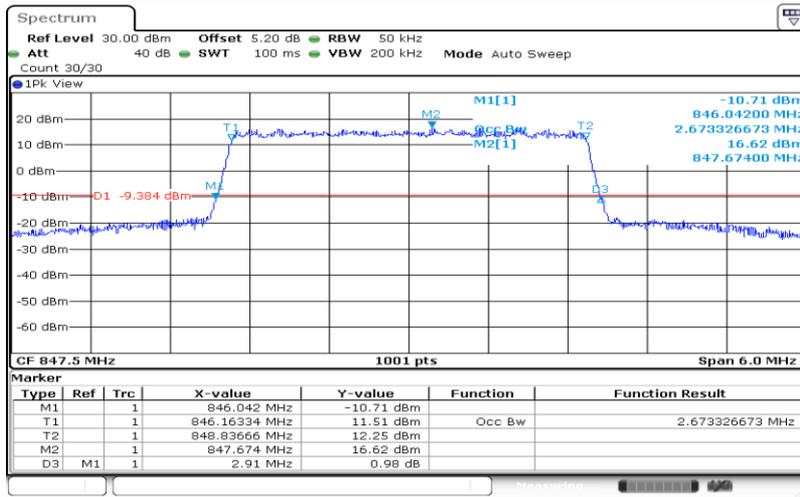
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**Band5-3MHz-16QAM-20525-15RB#0-2.673**



Date: 16.OCT.2019 10:46:17

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



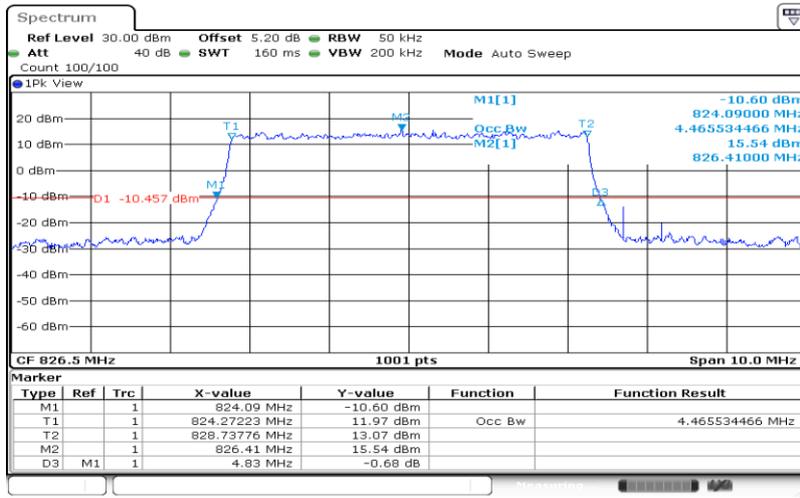
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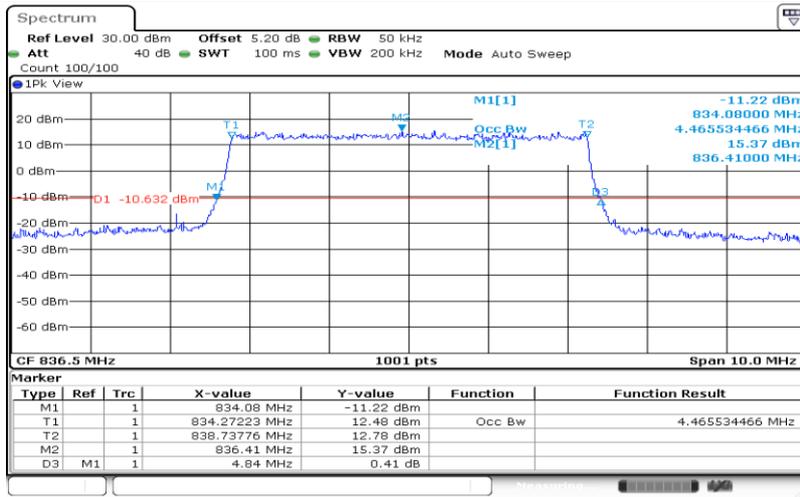
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## Band5-5MHz-QPSK-20425-25RB#0-4.466



Date: 16.OCT.2019 10:47:15

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



Date: 16.OCT.2019 10:47:55

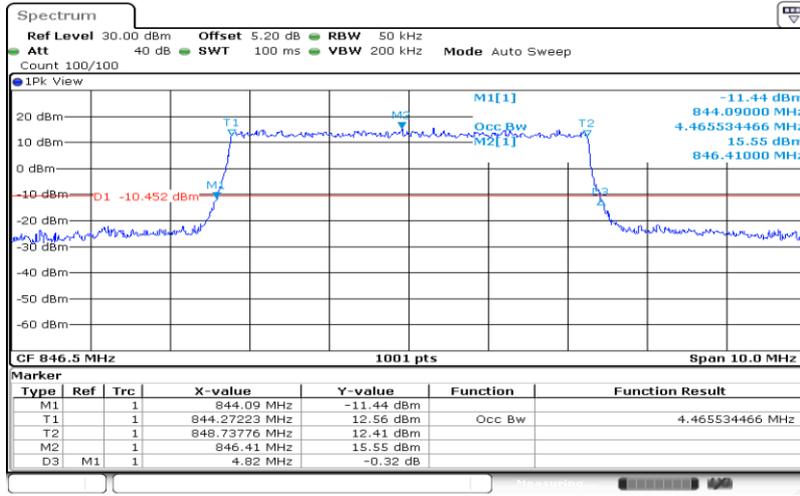


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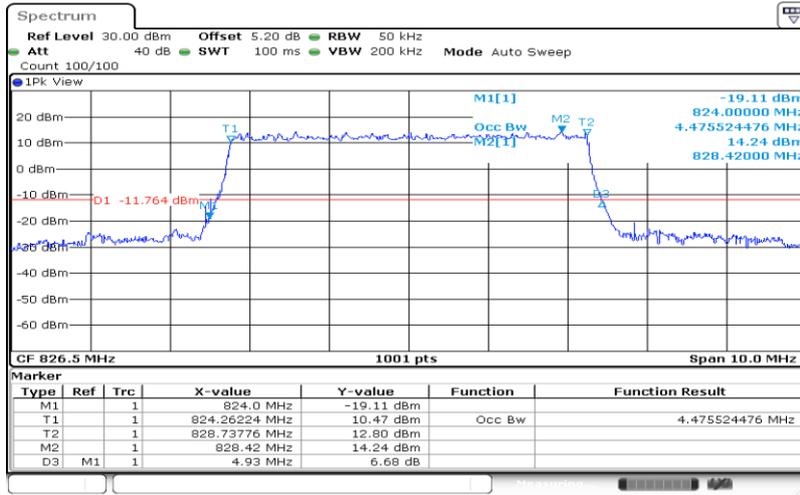


**Band5-5MHz-QPSK-20625-25RB#0-4.466**



Date: 16.OCT.2019 10:48:35

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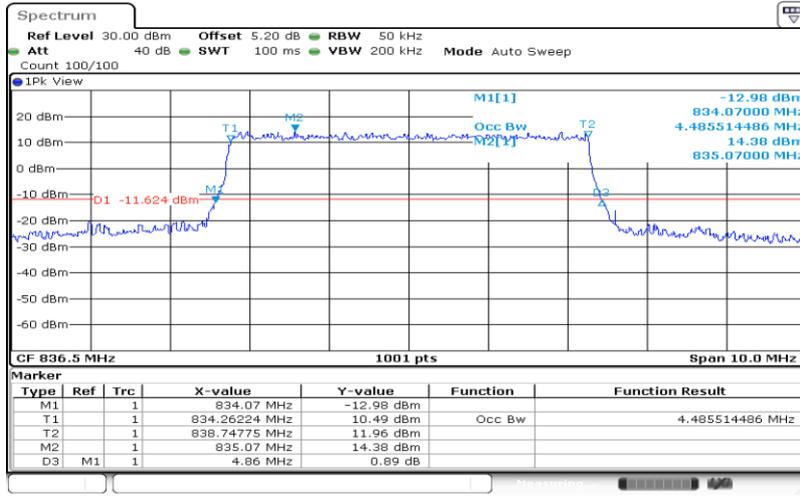


Date: 16.OCT.2019 10:47:35



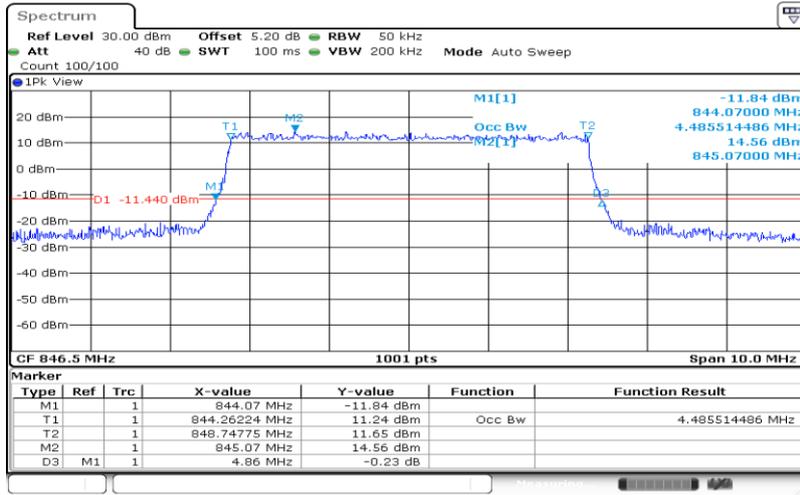
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**Band5-5MHz-16QAM-20525-25RB#0-4.486**



Date: 16.OCT.2019 10:48:15

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



Date: 16.OCT.2019 10:48:55

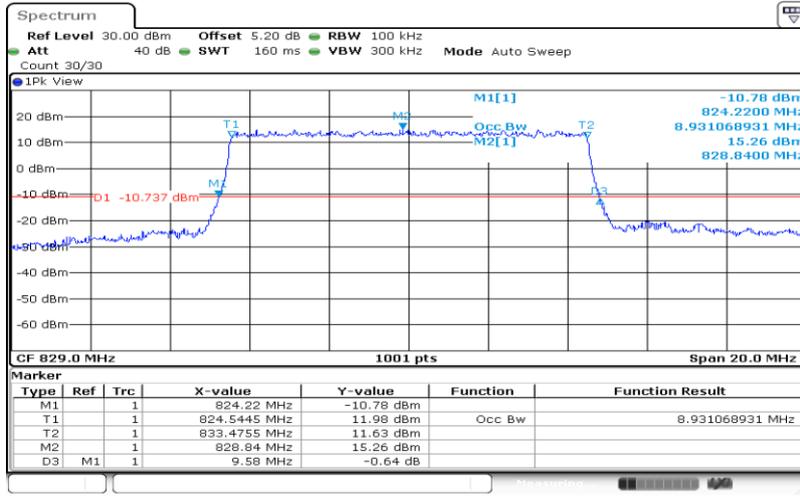


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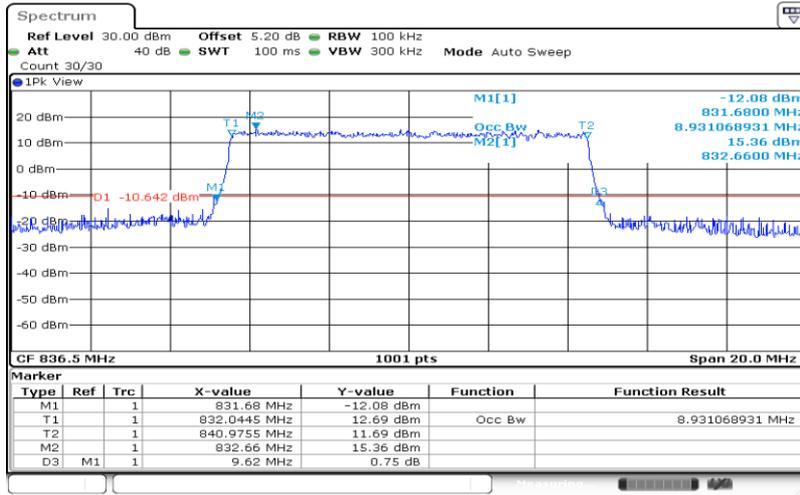


Band5-10MHz-QPSK-20450-50RB#0-8.931



Date: 16.OCT.2019 10:49:14

Band5-10MHz-QPSK-20525-50RB#0-8.931



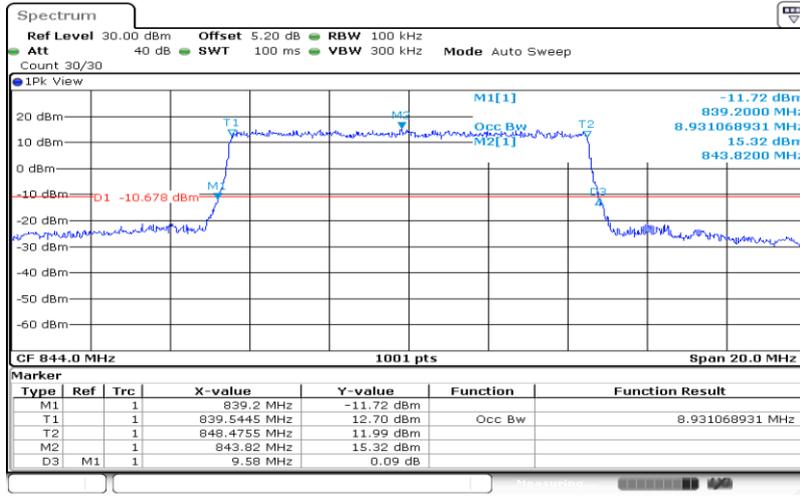
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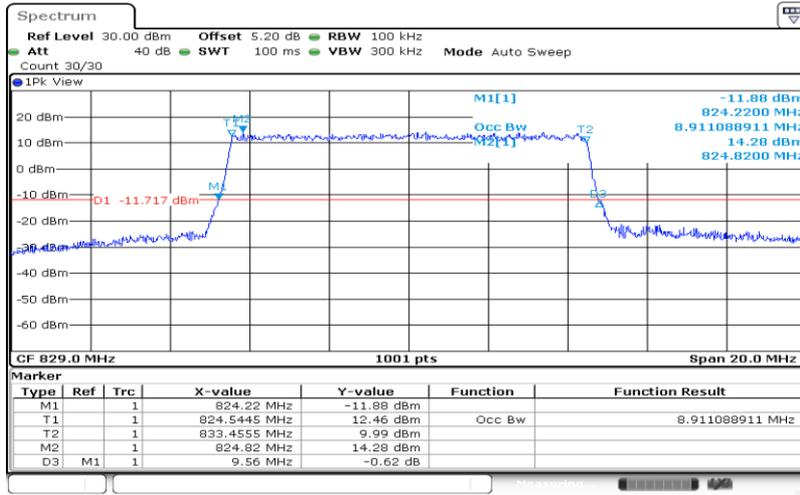


Band5-10MHz-QPSK-20600-50RB#0-8.931



Date: 16.OCT.2019 10:50:06

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



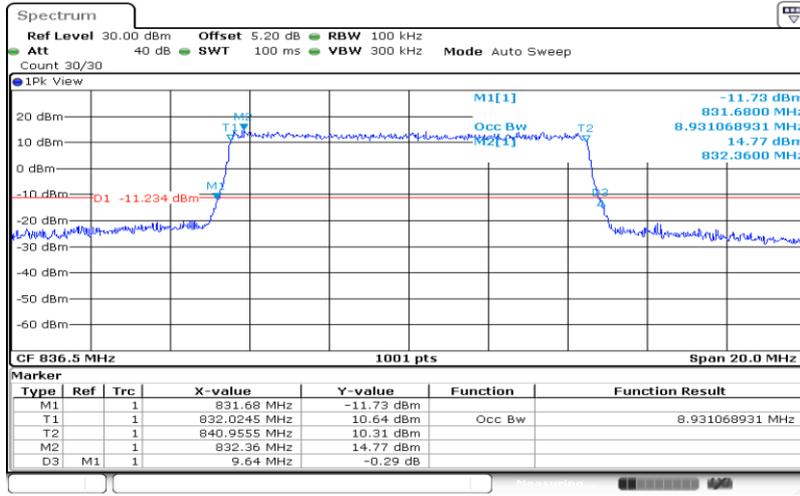
Date: 16.OCT.2019 10:49:27



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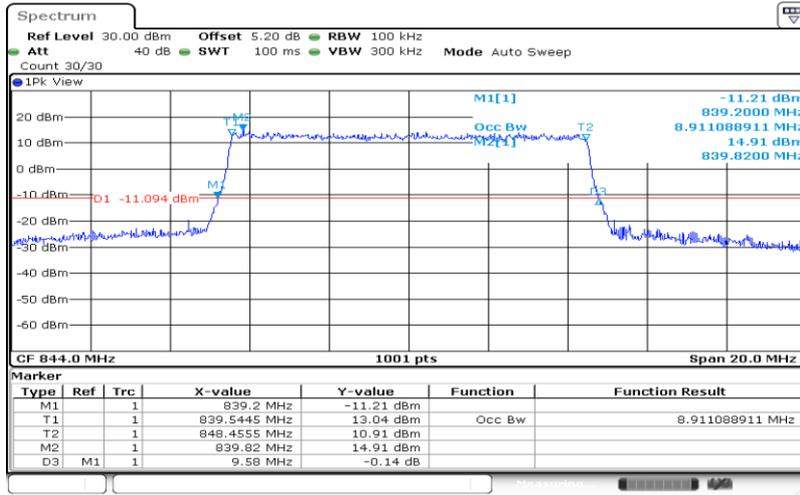


Band5-10MHz-16QAM-20525-50RB#0-8.931



Date: 16.OCT.2019 10:49:53

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



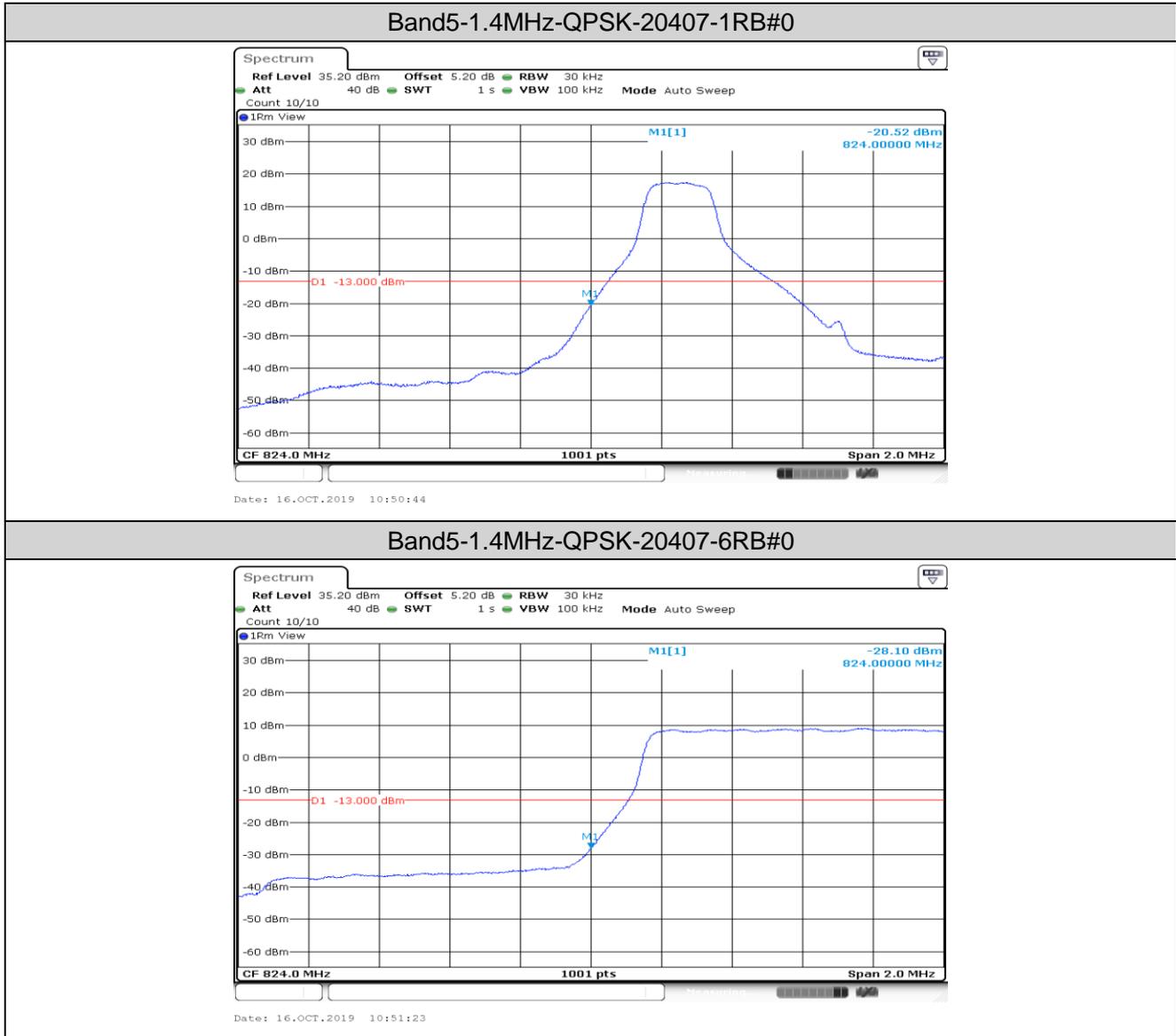
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## 5. Band Edge Compliance

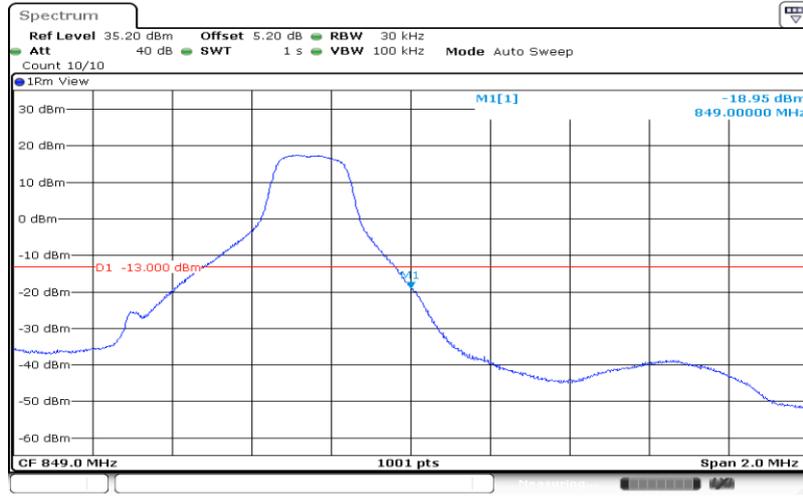
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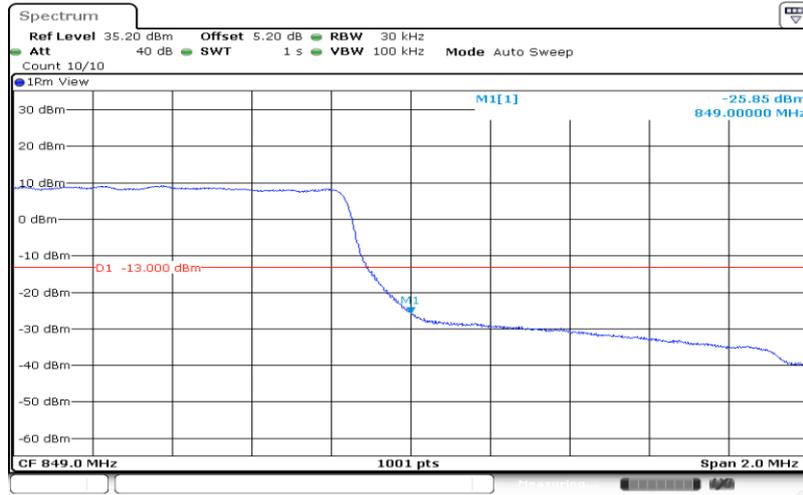
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**Band5-1.4MHz-QPSK-20643-1RB#5**



Date: 16.OCT.2019 10:52:07

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



Date: 16.OCT.2019 10:52:46



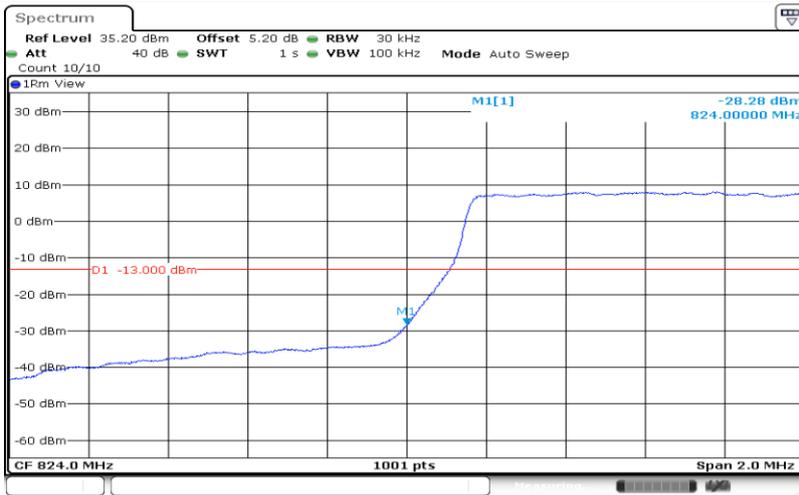
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**Band5-1.4MHz-16QAM-20407-1RB#0**



Date: 16.OCT.2019 10:51:04

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

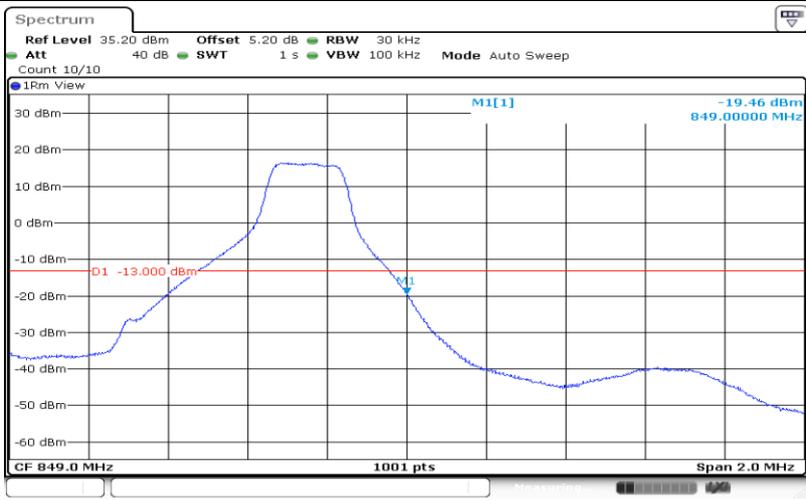


Date: 16.OCT.2019 10:51:43



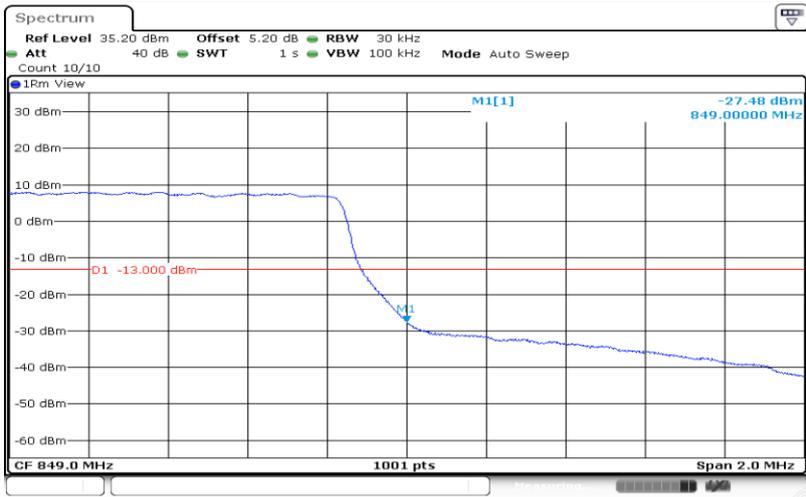
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**Band5-1.4MHz-16QAM-20643-1RB#5**



Date: 16.OCT.2019 10:52:27

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

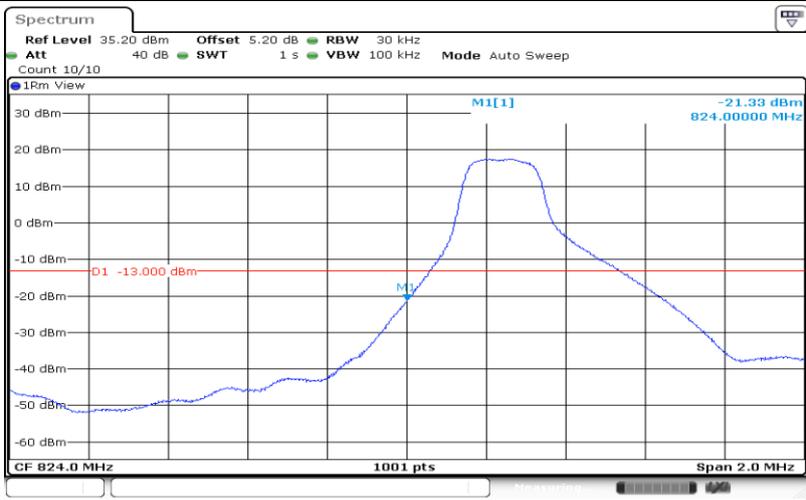


Date: 16.OCT.2019 10:53:06



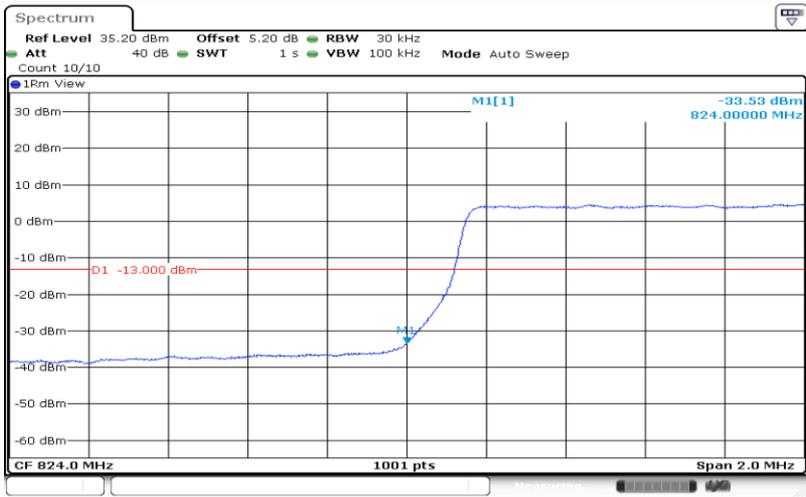
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**Band5-3MHz-QPSK-20415-1RB#0**



Date: 16.OCT.2019 10:53:31

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



Date: 16.OCT.2019 10:54:10



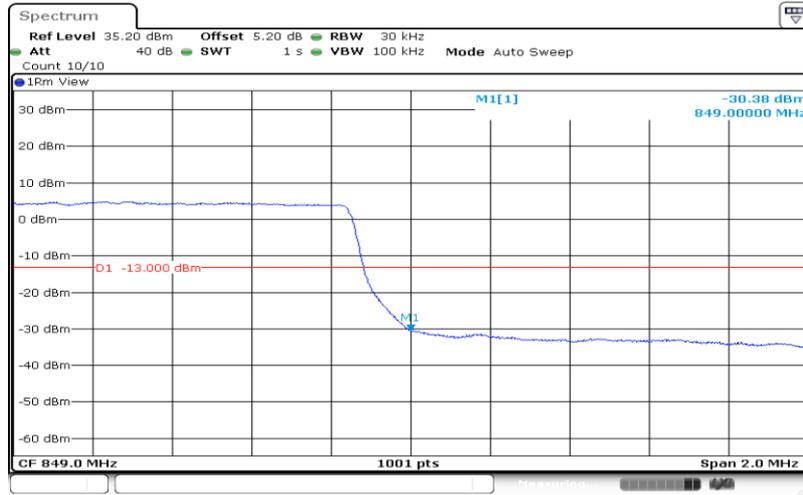
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**Band5-3MHz-QPSK-20635-1RB#14**



Date: 16.OCT.2019 10:54:54

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

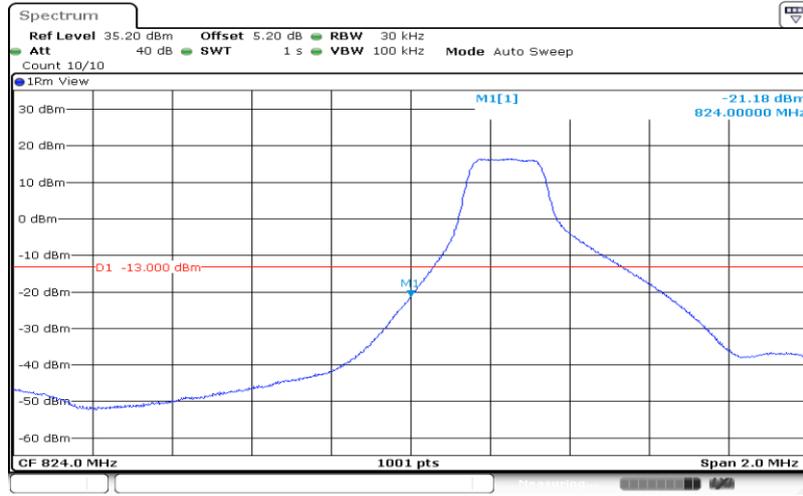


Date: 16.OCT.2019 10:55:33



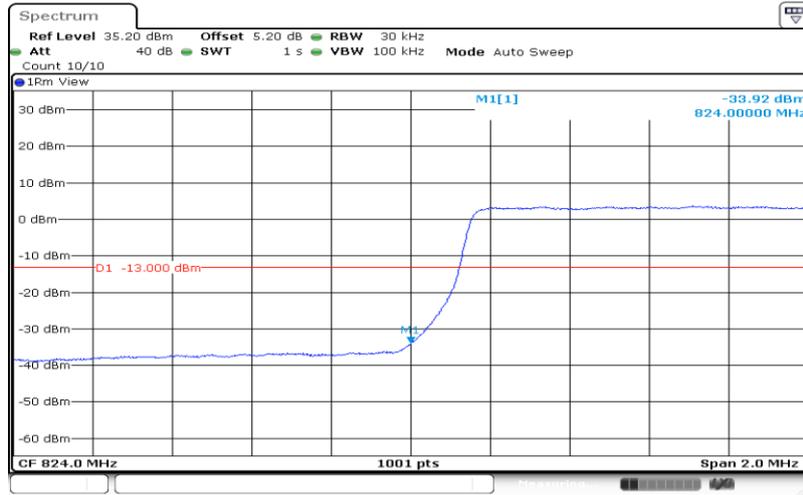
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**Band5-3MHz-16QAM-20415-1RB#0**



Date: 16.OCT.2019 10:53:50

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

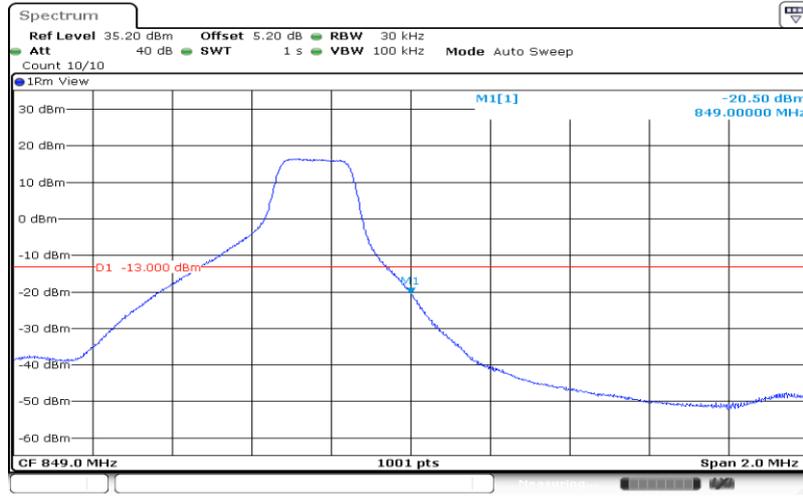


Date: 16.OCT.2019 10:54:30



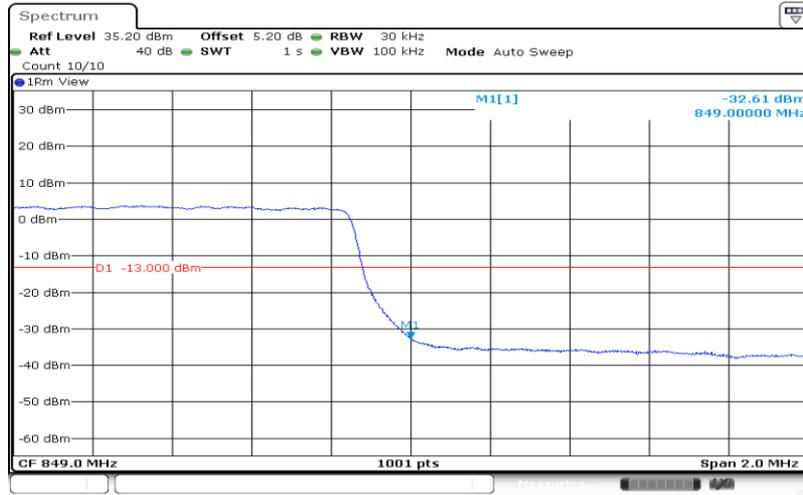
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**Band5-3MHz-16QAM-20635-1RB#14**



Date: 16.OCT.2019 10:55:13

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

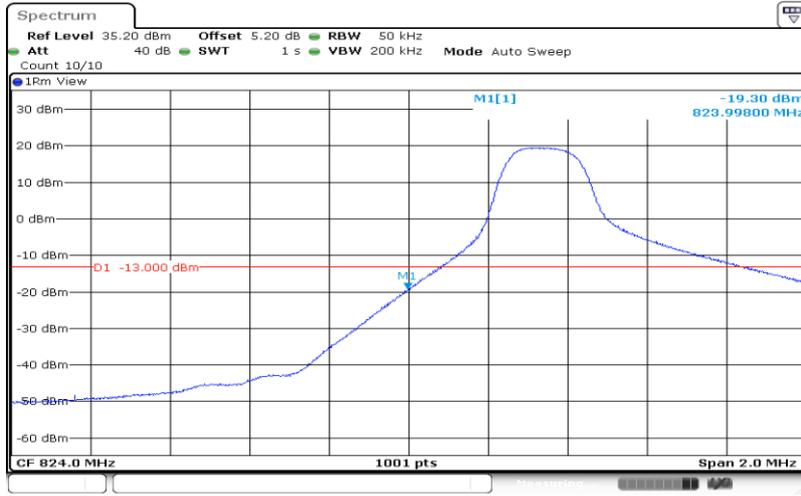


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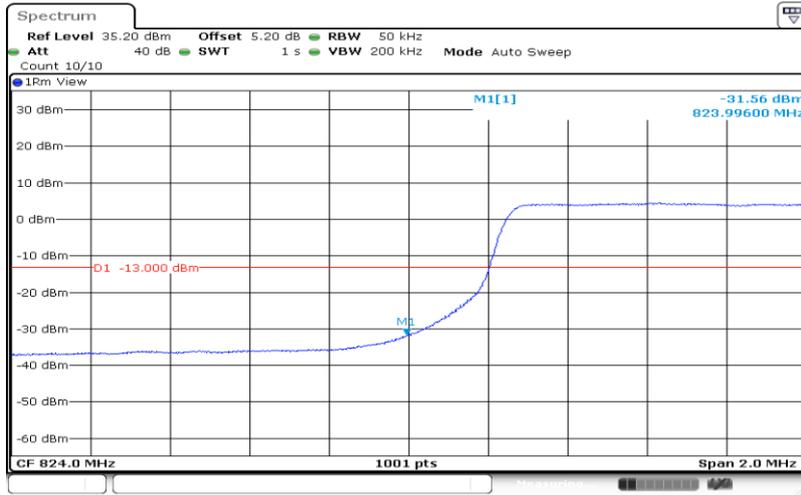
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**Band5-5MHz-QPSK-20425-1RB#0**



Date: 16.OCT.2019 10:56:17

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

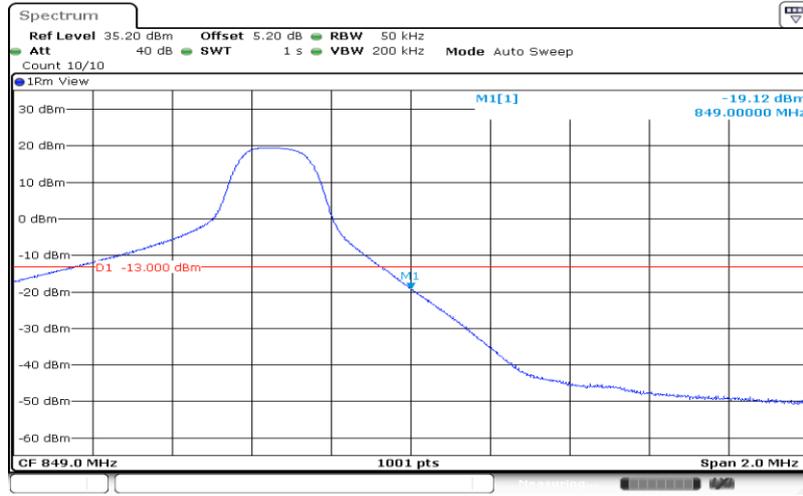


Date: 16.OCT.2019 10:56:57



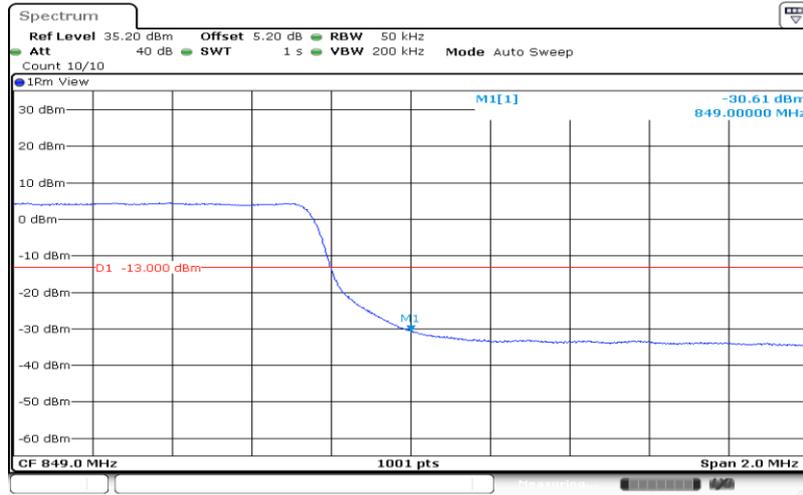
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**Band5-5MHz-QPSK-20625-1RB#24**



Date: 16.OCT.2019 10:57:40

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



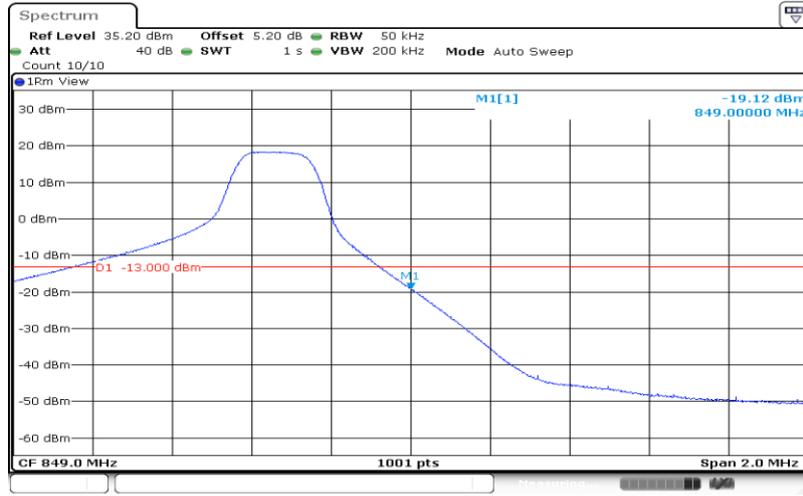
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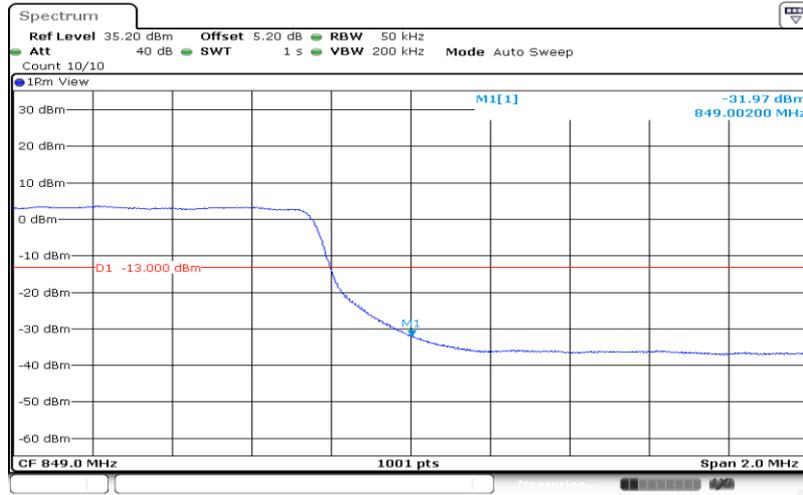


**Band5-5MHz-16QAM-20625-1RB#24**



Date: 16.OCT.2019 10:58:00

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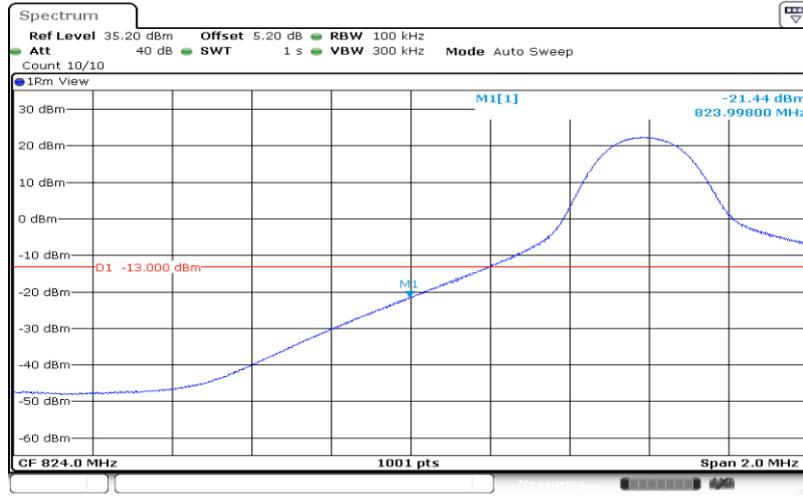


Date: 16.OCT.2019 10:58:39



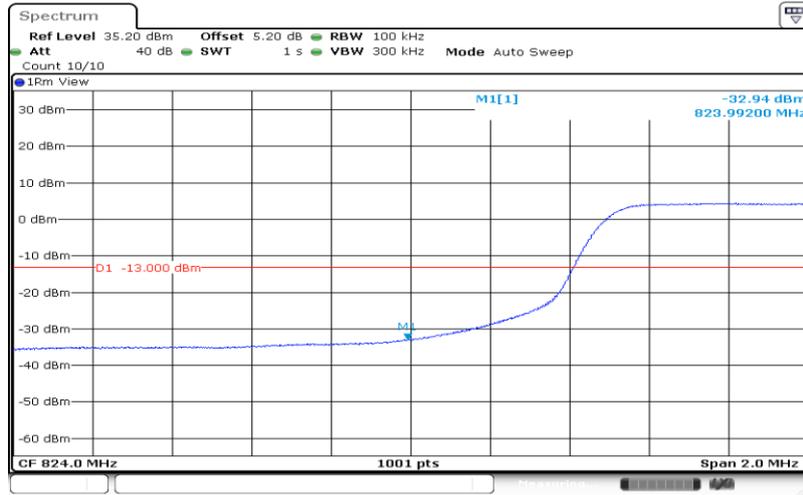
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**Band5-10MHz-QPSK-20450-1RB#0**



Date: 16.OCT.2019 10:59:04

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



Date: 16.OCT.2019 10:59:43

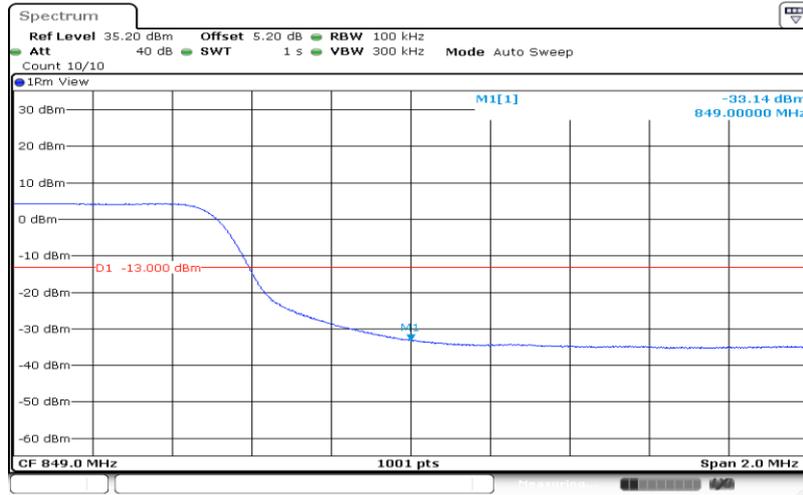


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**Band5-10MHz-QPSK-20600-1RB#49**

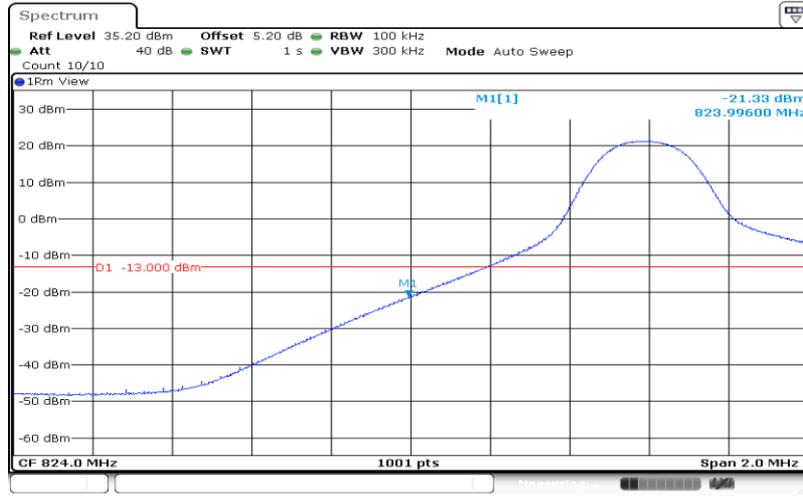


**Band5-10MHz-QPSK-20600-50RB#0**



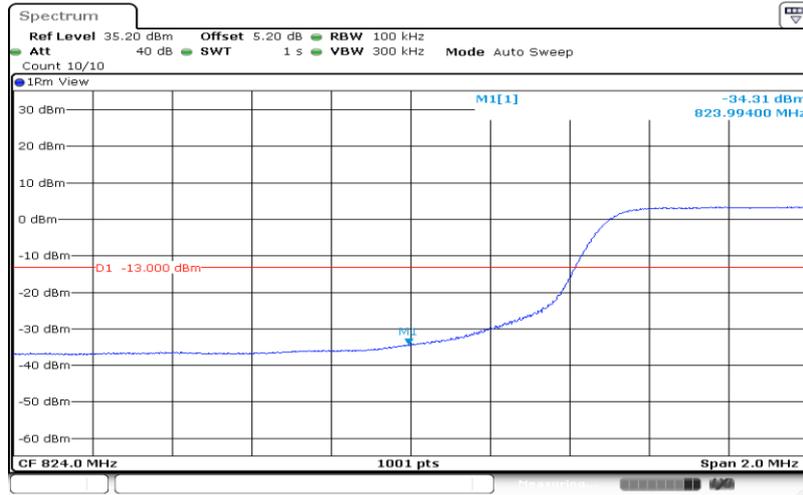
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**Band5-10MHz-16QAM-20450-1RB#0**



Date: 16.OCT.2019 10:59:24

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



Date: 16.OCT.2019 11:00:03



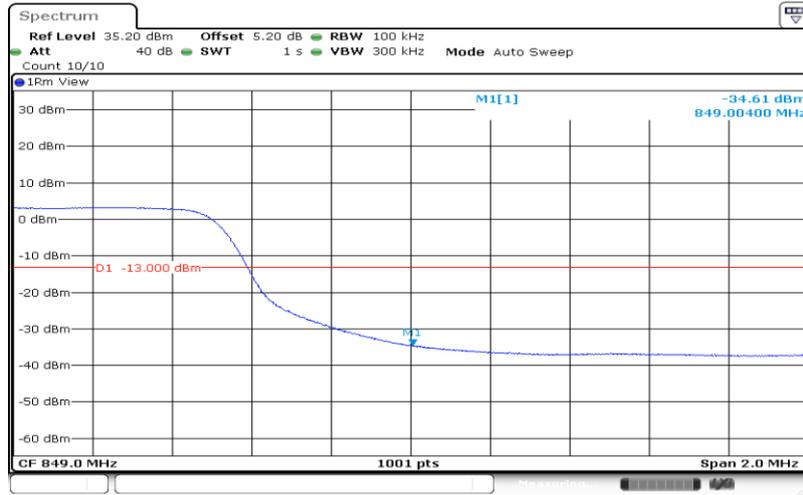
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**Band5-10MHz-16QAM-20600-1RB#49**



Date: 16.OCT.2019 11:00:47

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



Date: 16.OCT.2019 11:01:26



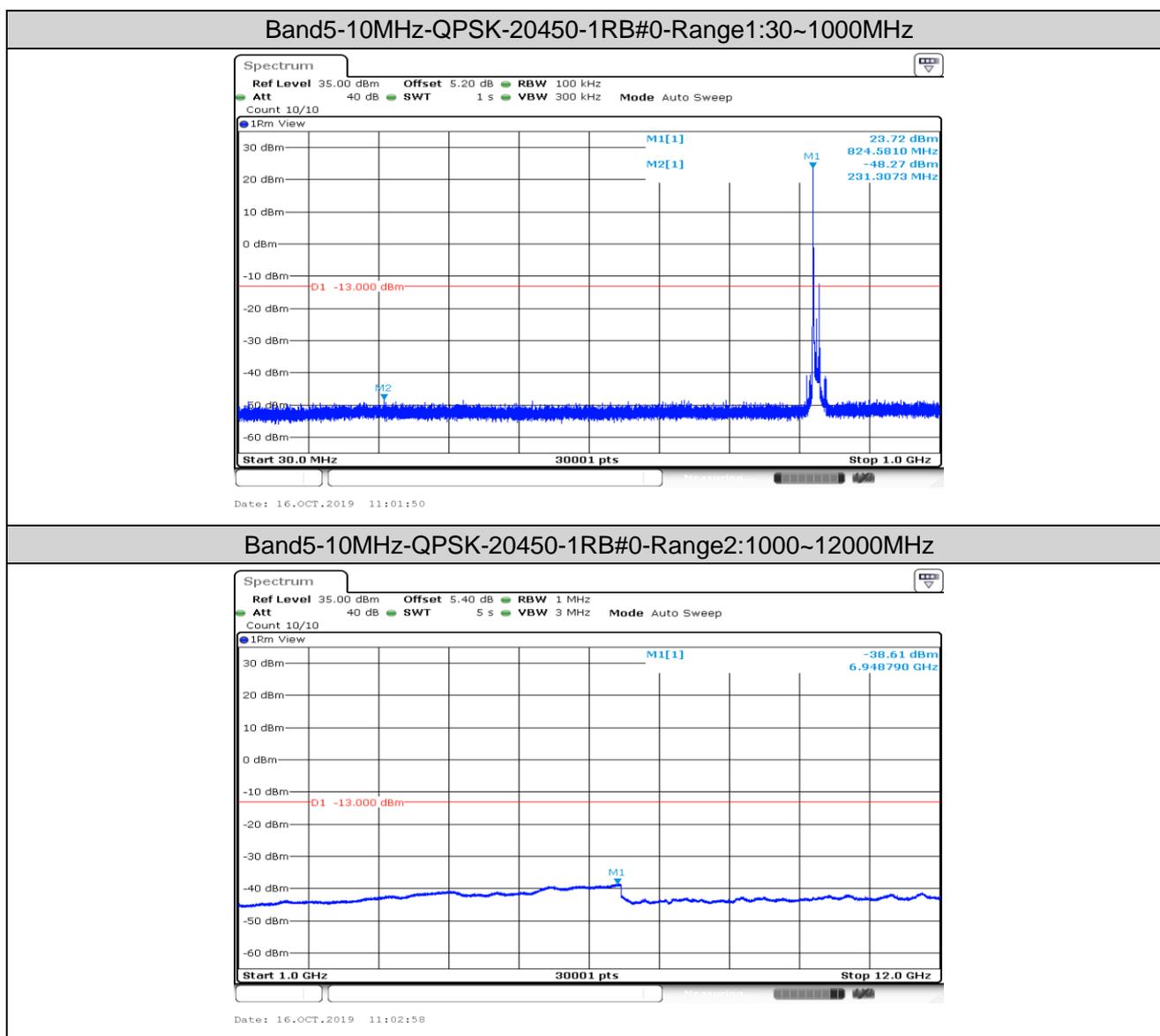
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## 6. Spurious Emission at Antenna Terminal

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.

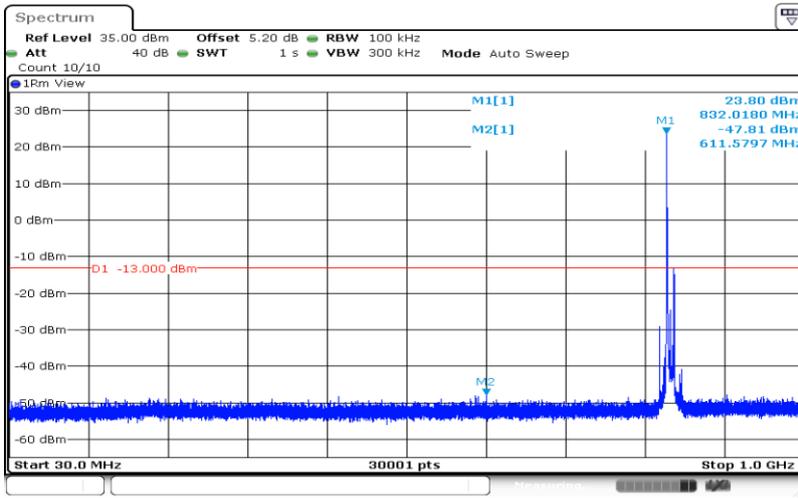
Remark2: only the worst case data displayed in this report.

### 6.1. Test Plots



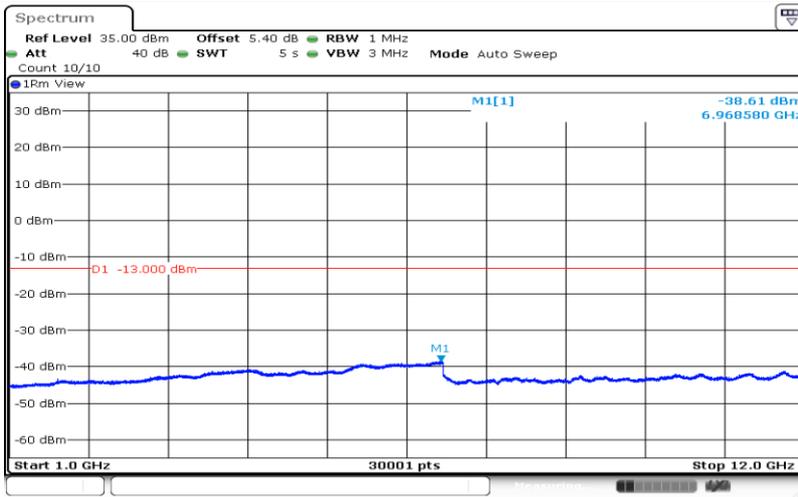
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**Band5-10MHz-QPSK-20525-1RB#0-Range1:30~1000MHz**



Date: 16.OCT.2019 11:04:45

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

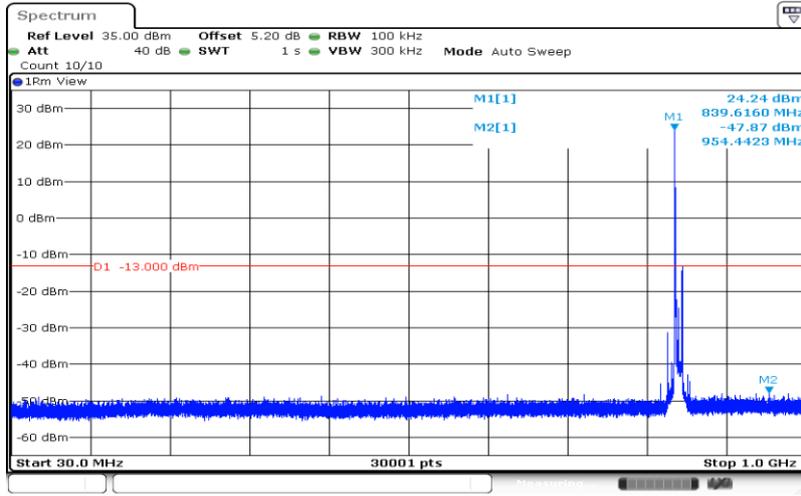


Date: 16.OCT.2019 11:05:52

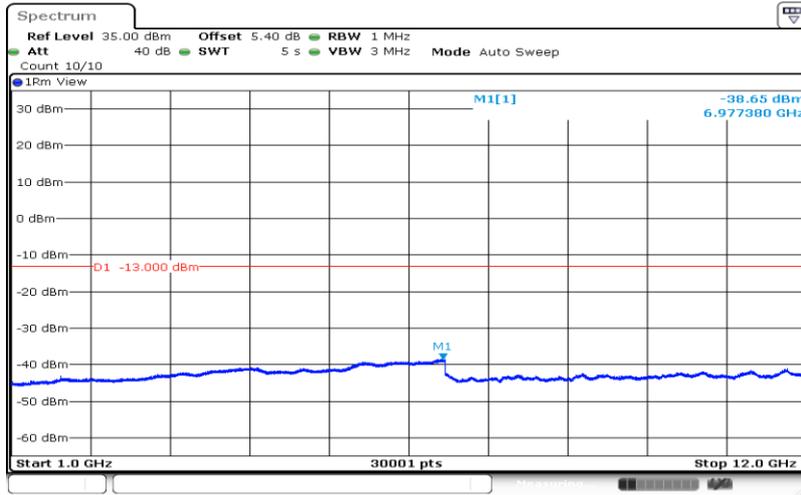


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**Band5-10MHz-QPSK-20600-1RB#0-Range1:30~1000MHz**

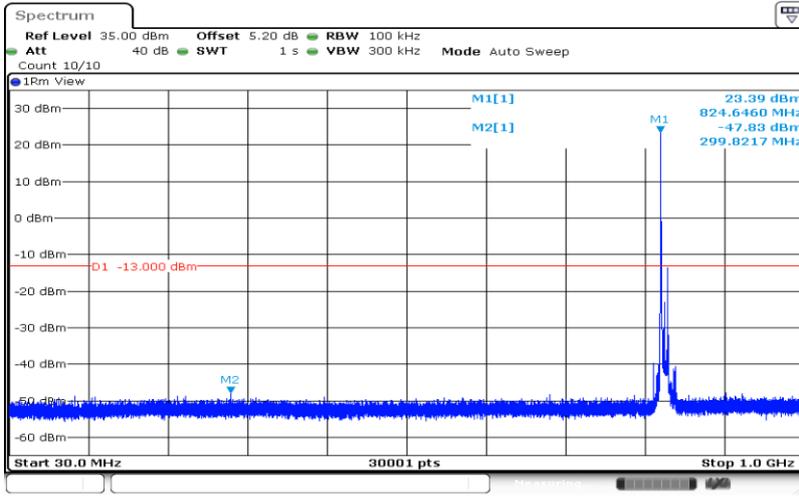


**Band5-10MHz-QPSK-20600-1RB#0-Range2:1000~12000MHz**

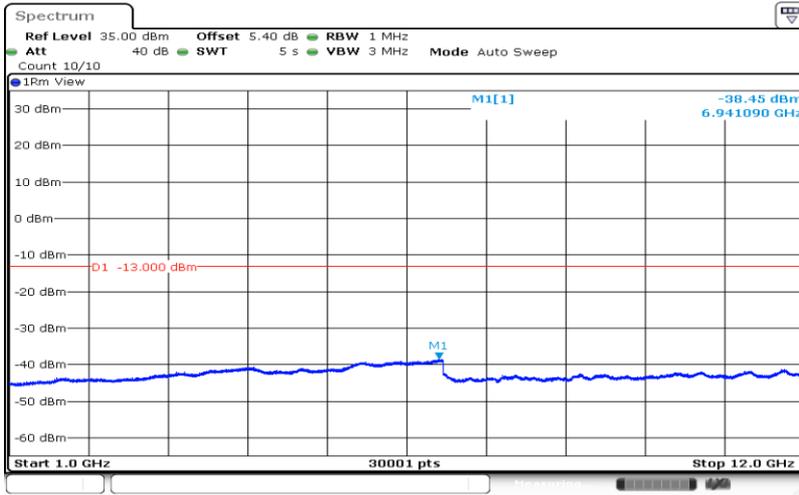


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**Band5-10MHz-16QAM-20450-1RB#0-Range1:30~1000MHz**

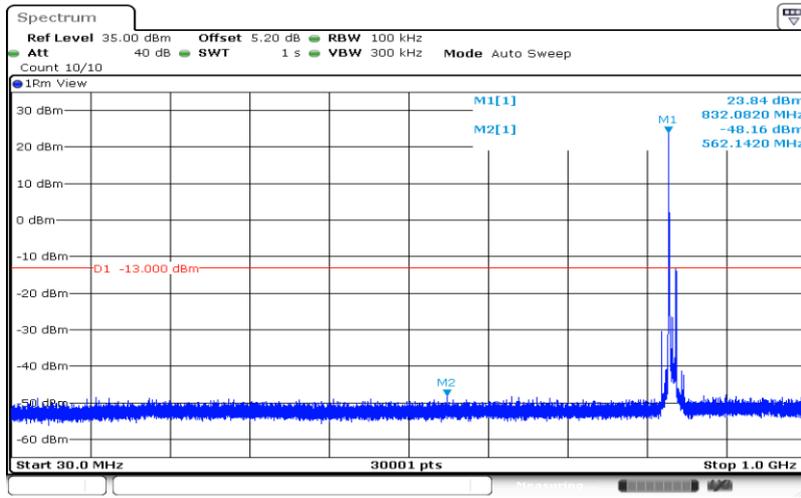


**Band5-10MHz-16QAM-20450-1RB#0-Range2:1000~12000MHz**



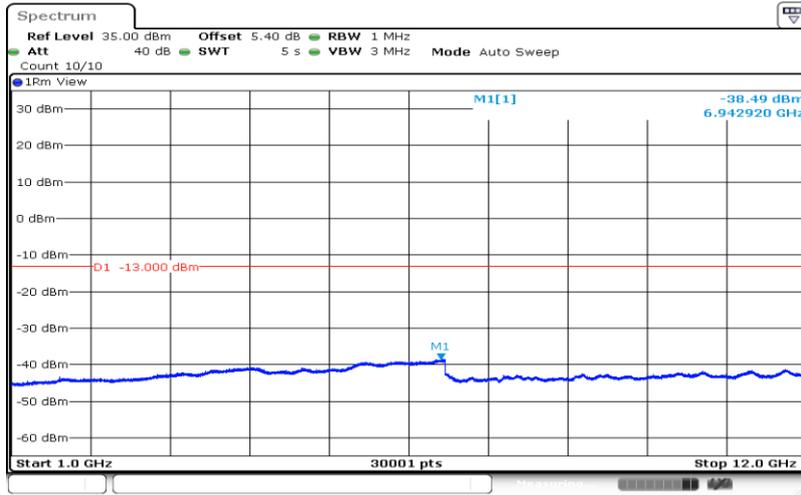
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**Band5-10MHz-16QAM-20525-1RB#0-Range1:30~1000MHz**



Date: 16.OCT.2019 11:06:12

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



Date: 16.OCT.2019 11:07:19

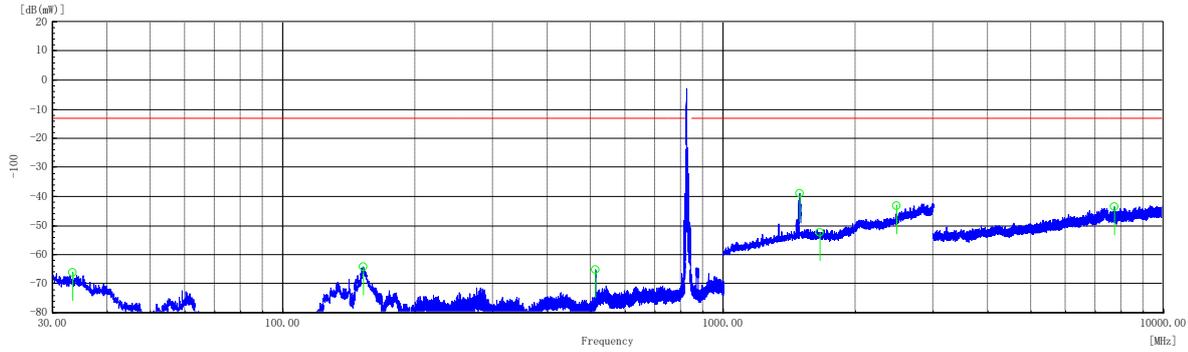


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## 7. Field Strength of Spurious Radiation

### 7.1. LTE Band 5 L channel (horizontal)



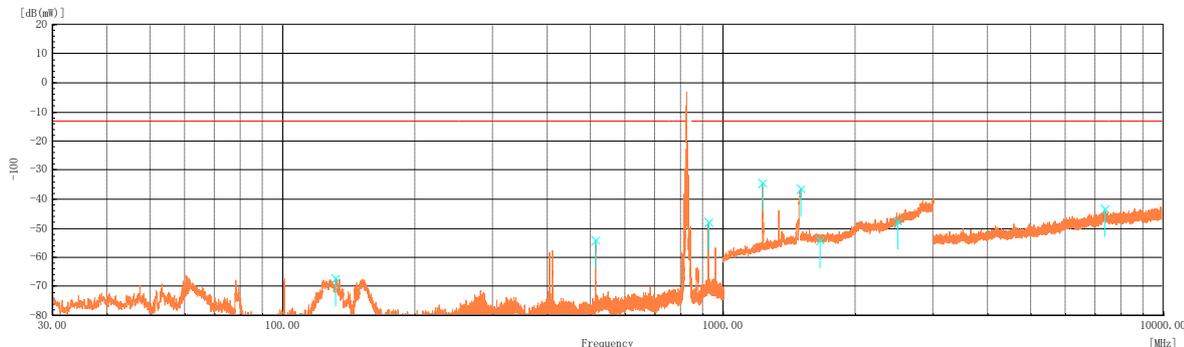
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33.35	H	29.1	-66.2	-13	53.2	179	270.4
152.35	H	30.9	-64.4	-13	51.4	176	45.2
513.15	H	29.9	-65.4	-13	52.4	149	45.2
1493	H	56.2	-39.1	-13	26.1	107	45.2
1656.5	H	42.7	-52.6	-13	39.6	115	45.2
2474	H	52.0	-43.3	-13	30.3	111	45.2
7738.501	H	51.7	-43.6	-13	30.6	164	270.4



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## 7.2. LTE Band 5 L channel (vertical)

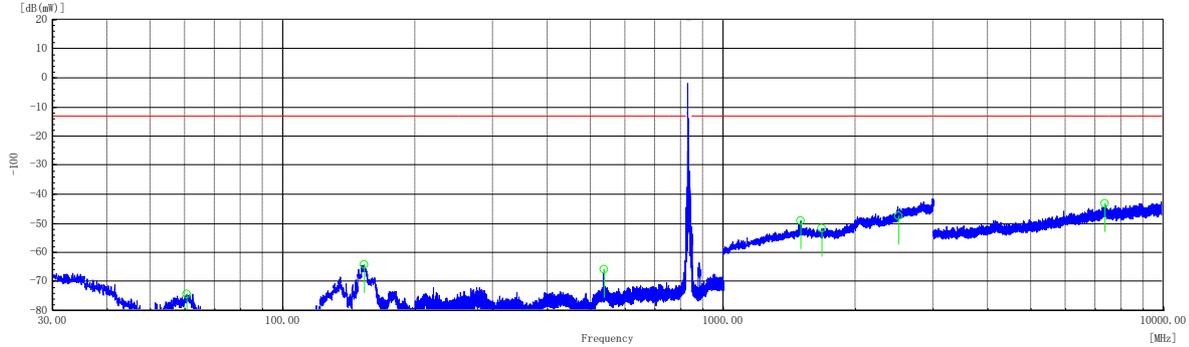


Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
132.1	V	28.0	-67.3	-13	54.3	178	179.7
513.2	V	41.2	-54.1	-13	41.1	152	359.9
925.2	V	47.6	-47.7	-13	34.7	158	359.9
1227.5	V	60.9	-34.4	-13	21.4	149	359.9
1498	V	59.0	-36.3	-13	23.3	112	134.7
1658	V	41.0	-54.3	-13	41.3	114	270
2487	V	47.8	-47.5	-13	34.5	115	359.9
7360.001	V	52.1	-43.2	-13	30.2	173	270



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### 7.3. LTE Band 5 M channel (horizontal)



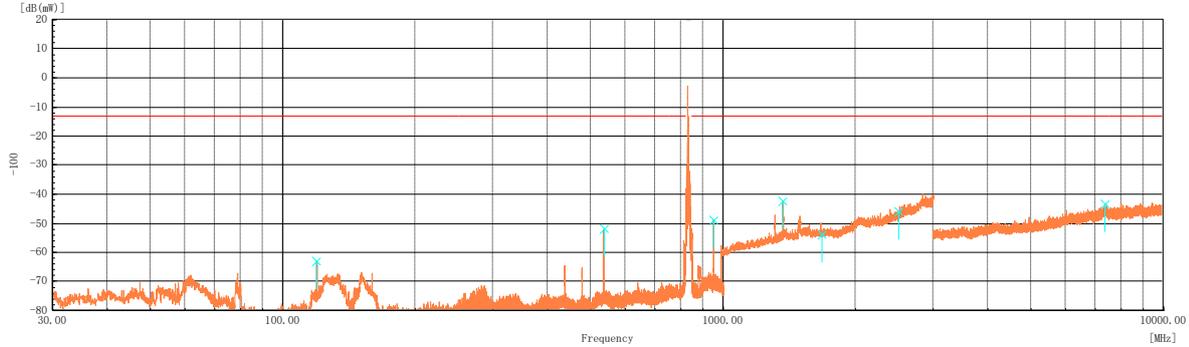
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
60.6	H	21.0	-74.3	-13	61.3	106	91
152.8	H	30.9	-64.4	-13	51.4	144	359.9
535.55	H	29.5	-65.8	-13	52.8	120	45.2
1499.5	H	46.1	-49.2	-13	36.2	166	45.2
1673.5	H	43.5	-51.8	-13	38.8	119	315.3
2509.5	H	47.8	-47.5	-13	34.5	101	91
7359.501	H	51.9	-43.4	-13	30.4	155	135.1



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### 7.4. LTE Band 5 M channel (vertical)



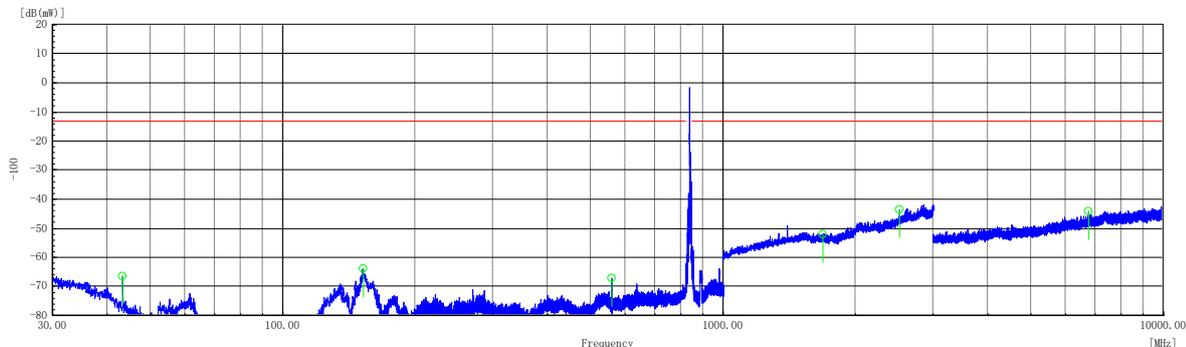
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
119.45	V	32.2	-63.1	-13	50.1	105	45
535.6	V	43.6	-51.7	-13	38.7	113	45
951.65	V	46.4	-48.9	-13	35.9	130	0.1
1367.5	V	53.0	-42.3	-13	29.3	116	0.1
1673	V	41.5	-53.8	-13	40.8	137	0.1
2509	V	49.5	-45.8	-13	32.8	105	0.1
7368.001	V	52.1	-43.2	-13	30.2	143	179.3



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### 7.5. LTE Band 5 H channel (horizontal)



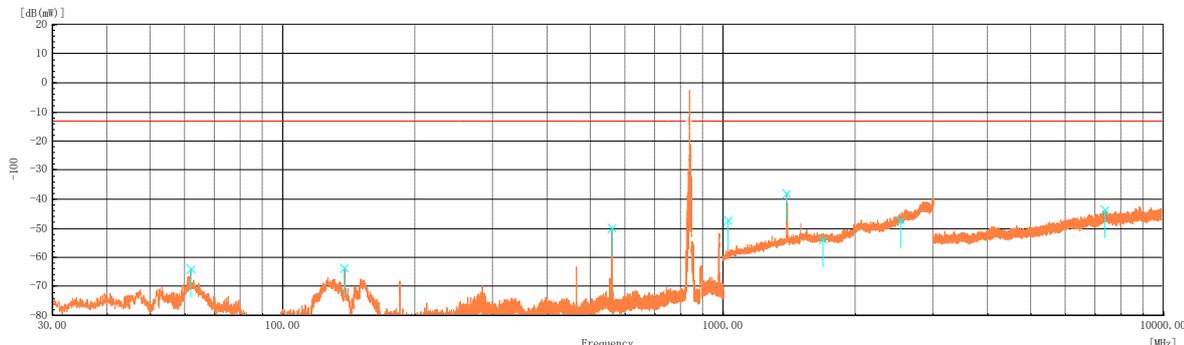
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
43.3	H	28.6	-66.7	-13	53.7	127	180.6
152.05	H	31.4	-63.9	-13	50.9	142	45
558.05	H	28.0	-67.3	-13	54.3	127	315.7
1687.5	H	43.1	-52.2	-13	39.2	128	225.5
2519	H	51.8	-43.5	-13	30.5	180	180.6
6763.001	H	51.0	-44.3	-13	31.3	105	180.6



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### 7.6. LTE Band 5 H channel (vertical)



Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
61.65	V	31.3	-64	-13	51	139	44.7
138.15	V	31.6	-63.7	-13	50.7	175	269.6
558.05	V	45.4	-49.9	-13	36.9	173	0.1
1024	V	48.0	-47.3	-13	34.3	160	0.1
1392.5	V	57.1	-38.2	-13	25.2	132	0.1
1688	V	41.6	-53.7	-13	40.7	127	269.6
2532	V	48.2	-47.1	-13	34.1	149	44.7
7350.001	V	51.8	-43.5	-13	30.5	180	134.5

Note:

- 1) LTE Band5 working frequency lower than 1GHz, only test the tenth harmonic of the highest fundamental frequency. And the disturbance below 30MHz was very low, and the above harmonics are the highest points could be found when testing, so only the worst case data had been displayed.
- 2) The disturbance below 30MHz was very low, and the above harmonics are the highest points could be found when testing, so only the worst case data had been displayed.
- 3) We have tested all modulation and Bandwidth, but only the worst case data presented 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	-5.90	-0.007117	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	-0.10	-0.000121	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	-4.90	-0.005911	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-4.10	-0.004901	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-3.60	-0.004304	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-9.00	-0.010759	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	-7.20	-0.008531	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	-7.20	-0.008531	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	-2.90	-0.003436	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VL	NT	-13.60	-0.016405	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VN	NT	-6.10	-0.007358	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VH	NT	-9.30	-0.011218	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VL	NT	-0.70	-0.000837	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VN	NT	-4.90	-0.005858	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VH	NT	-8.00	-0.009564	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VL	NT	-8.10	-0.009597	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VN	NT	-9.10	-0.010782	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VH	NT	-8.40	-0.009953	±2.5	PASS



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## 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	-6.40	-0.007720	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	-10.20	-0.012304	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	-8.20	-0.009891	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	-2.70	-0.003257	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	0.80	0.000965	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	-9.90	-0.011942	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	-6.50	-0.007841	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	-4.50	-0.005428	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	-9.30	-0.011118	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-6.70	-0.008010	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-9.20	-0.010998	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-6.80	-0.008129	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-7.80	-0.009325	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	0.50	0.000598	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-9.80	-0.011715	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-7.00	-0.008368	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	-6.90	-0.008175	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	-6.90	-0.008175	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	-4.00	-0.004739	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	-4.20	-0.004976	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	-4.60	-0.005450	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	-8.50	-0.010071	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	-9.70	-0.011493	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	-4.90	-0.005806	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-30	-8.30	-0.010012	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-20	-4.60	-0.005549	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	0	-6.30	-0.007600	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	10	-5.10	-0.006152	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	20	-6.30	-0.007600	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	30	-14.00	-0.016888	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	40	-8.20	-0.009891	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	50	-7.00	-0.008444	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-30	-8.70	-0.010400	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-20	-8.00	-0.009564	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	0	-4.50	-0.005380	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	10	-4.40	-0.005260	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	20	-8.60	-0.010281	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	30	-3.70	-0.004423	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	40	-14.00	-0.016736	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	50	-6.00	-0.007173	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-30	-5.50	-0.006517	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-20	-5.30	-0.006280	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	0	-6.90	-0.008175	±2.5	PASS



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Band5	10MHz	16QAM	20600	50RB#0	NV	10	-10.90	-0.012915	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	20	-2.90	-0.003436	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	30	-10.90	-0.012915	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	40	-1.00	-0.001185	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	50	-8.90	-0.010545	±2.5	PASS

The End



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