

# Appendix B

## E-UTRA Band 5



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# 1 Effective (Isotropic) Radiated Power

## 1.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Config.	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.43	21.18	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.35	21.10	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.29	21.04	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.32	21.07	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	23.38	21.13	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.44	21.19	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.23	19.98	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.11	20.86	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.17	20.92	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	22.84	20.59	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.11	20.86	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	23.08	20.83	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.26	21.01	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.24	19.99	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	22.45	20.20	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.02	20.77	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	22.65	20.40	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.15	20.90	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	23.02	20.77	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	22.88	20.63	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.14	19.89	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	21.97	19.72	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.01	19.76	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	21.86	19.61	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	21.62	19.37	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	21.81	19.56	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	22.03	19.78	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	20.91	18.66	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.11	19.86	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	21.67	19.42	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	21.86	19.61	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	21.83	19.58	38.45	PASS



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Band5	1.4MHz	16QAM	20525	3RB#1	21.87	19.62	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	21.85	19.60	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	20.76	18.51	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	21.96	19.71	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	21.82	19.57	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	21.48	19.23	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	21.94	19.69	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	21.75	19.50	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	21.60	19.35	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.07	18.82	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.23	20.98	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.23	20.98	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.11	20.86	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.24	19.99	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#4	22.25	20.00	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#7	22.18	19.93	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.30	20.05	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.15	20.90	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	22.96	20.71	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.11	20.86	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#0	22.30	20.05	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#4	22.09	19.84	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#7	22.11	19.86	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.27	20.02	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.26	21.01	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	22.98	20.73	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	22.71	20.46	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#0	22.39	20.14	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#4	22.09	19.84	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#7	22.00	19.75	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.22	19.97	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	21.73	19.48	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.09	19.84	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	21.76	19.51	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#0	21.69	19.44	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#4	20.77	18.52	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.04	18.79	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	20.90	18.65	38.45	PASS



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Band5	3MHz	16QAM	20525	1RB#0	22.17	19.92	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	21.85	19.60	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	21.69	19.44	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#0	20.83	18.58	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#4	20.87	18.62	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#7	20.76	18.51	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	20.78	18.53	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	21.93	19.68	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	21.73	19.48	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	21.30	19.05	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#0	21.09	18.84	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#4	20.79	18.54	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#7	20.86	18.61	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	20.85	18.60	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.03	20.78	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.42	21.17	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	22.83	20.58	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#0	22.26	20.01	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#6	22.26	20.01	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.28	20.03	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.67	20.42	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	22.96	20.71	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	22.93	20.68	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	22.82	20.57	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#0	22.32	20.07	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#6	22.11	19.86	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.03	19.78	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	21.92	19.67	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.28	21.03	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.19	20.94	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	22.48	20.23	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.42	20.17	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#6	22.23	19.98	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#13	21.92	19.67	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.17	19.92	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	21.71	19.46	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	21.81	19.56	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	21.95	19.70	38.45	PASS



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Band5	5MHz	16QAM	20425	12RB#0	21.02	18.77	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#6	20.94	18.69	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#13	20.87	18.62	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	20.88	18.63	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	21.79	19.54	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	21.84	19.59	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	21.59	19.34	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#0	20.83	18.58	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#6	20.87	18.62	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#13	20.96	18.71	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	20.78	18.53	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	21.95	19.70	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	21.88	19.63	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	21.26	19.01	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#0	21.16	18.91	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#6	20.75	18.50	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#13	20.61	18.36	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	20.96	18.71	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	22.99	20.74	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.53	21.28	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	22.99	20.74	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.20	19.95	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#12	22.51	20.26	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.28	20.03	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	21.87	19.62	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	22.90	20.65	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.21	20.96	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	22.76	20.51	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.36	20.11	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#12	22.13	19.88	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#25	21.89	19.64	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	21.82	19.57	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	22.90	20.65	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.80	21.55	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	22.54	20.29	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.11	19.86	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#12	22.41	20.16	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.12	19.87	38.45	PASS



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Band5	10MHz	QPSK	20600	50RB#0	21.72	19.47	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	21.76	19.51	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.51	20.26	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	21.54	19.29	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#0	20.85	18.60	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#12	21.10	18.85	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#25	20.88	18.63	38.45	PASS
Band5	10MHz	16QAM	20450	27RB#0	20.80	18.55	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	21.98	19.73	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	21.98	19.73	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	21.64	19.39	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#0	20.99	18.74	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#12	20.75	18.50	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#25	20.71	18.46	38.45	PASS
Band5	10MHz	16QAM	20525	27RB#0	20.97	18.72	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	21.46	19.21	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.65	20.40	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	21.47	19.22	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#0	20.95	18.70	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#12	21.09	18.84	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#25	20.77	18.52	38.45	PASS
Band5	10MHz	16QAM	20600	27RB#0	20.89	18.64	38.45	PASS

Remark:

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

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

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



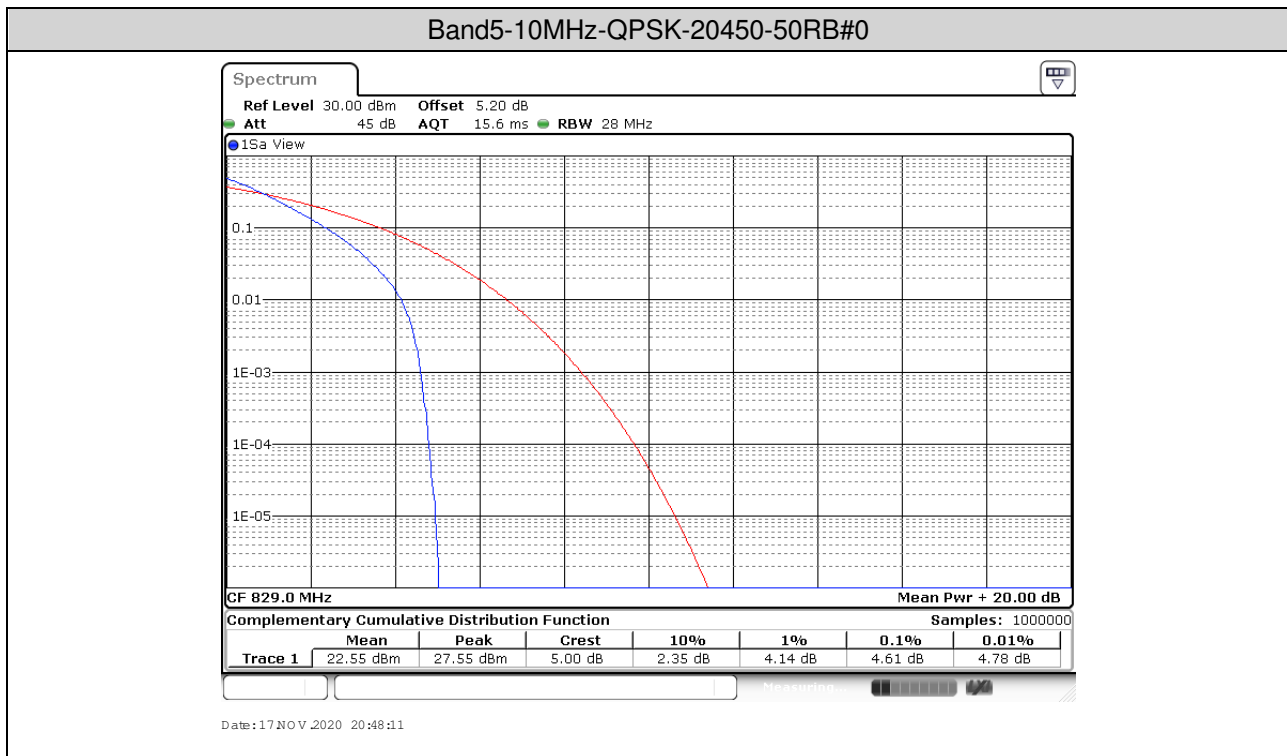
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## 2 Peak-to-Average Ratio (CCDF)

### 2.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	4.61	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	4.35	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	4.75	13	PASS
Band5	10MHz	16QAM	20450	27RB#0	5.30	13	PASS
Band5	10MHz	16QAM	20525	27RB#0	5.13	13	PASS
Band5	10MHz	16QAM	20600	27RB#0	5.42	13	PASS

### 2.2 Test Plots

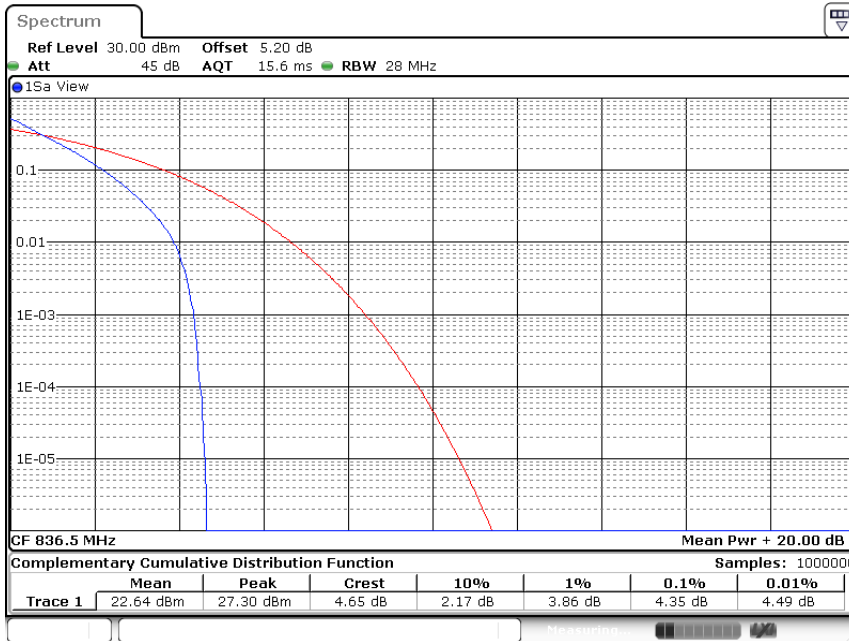


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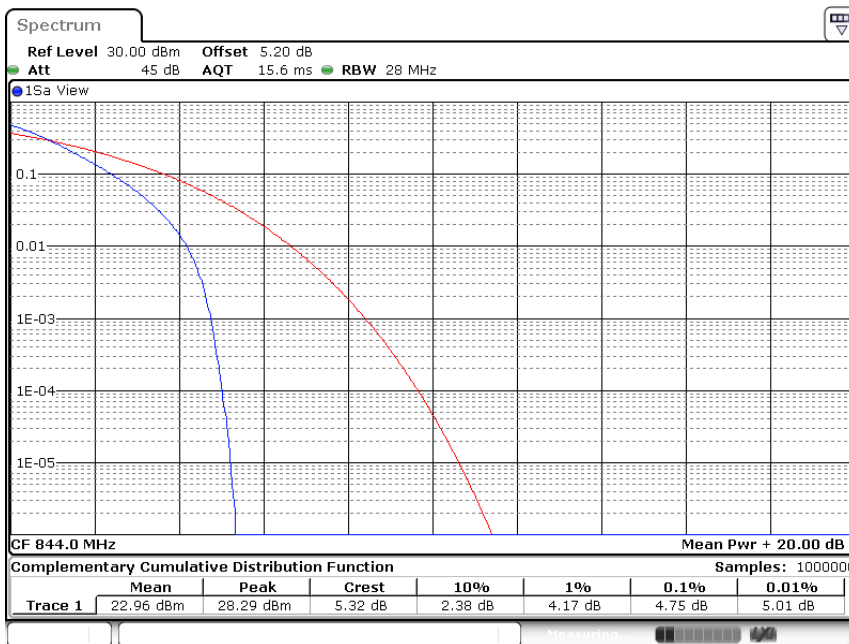


**Band5-10MHz-QPSK-20525-50RB#0**



Date: 17 NOV 2020 20:48:27

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

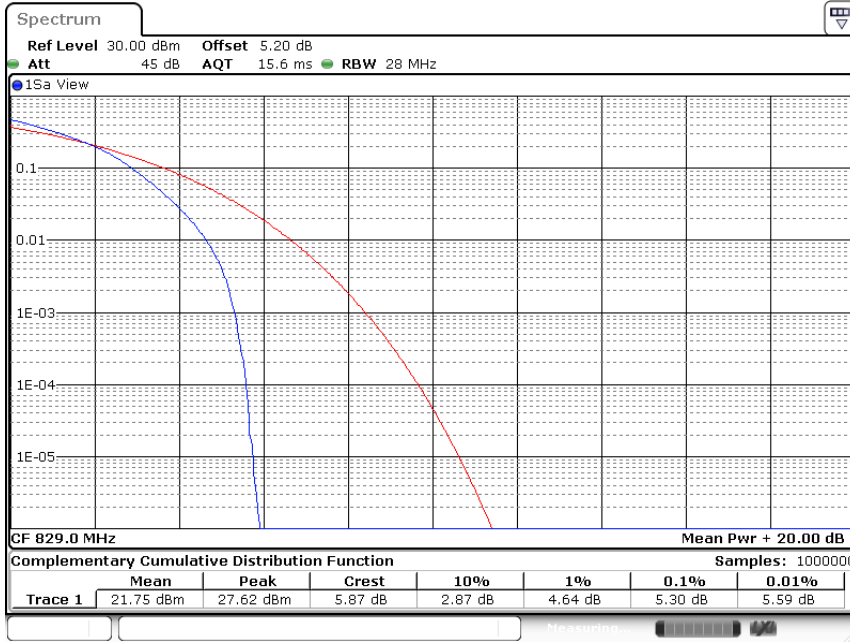


Date: 17 NOV 2020 20:48:44



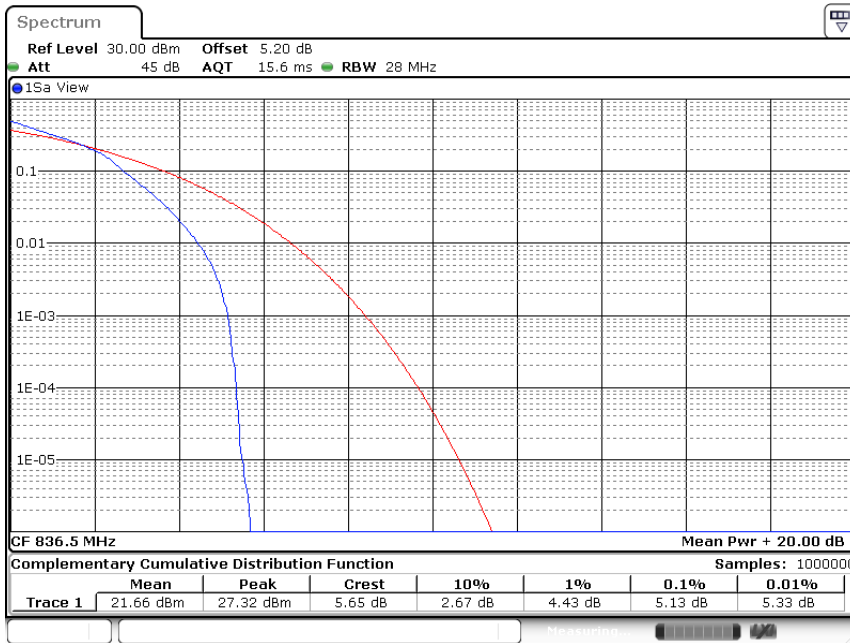
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**Band5-10MHz-16QAM-20450-27RB#0**



Date: 18 NOV 2020 12:04:18

**Band5-10MHz-16QAM-20525-27RB#0**

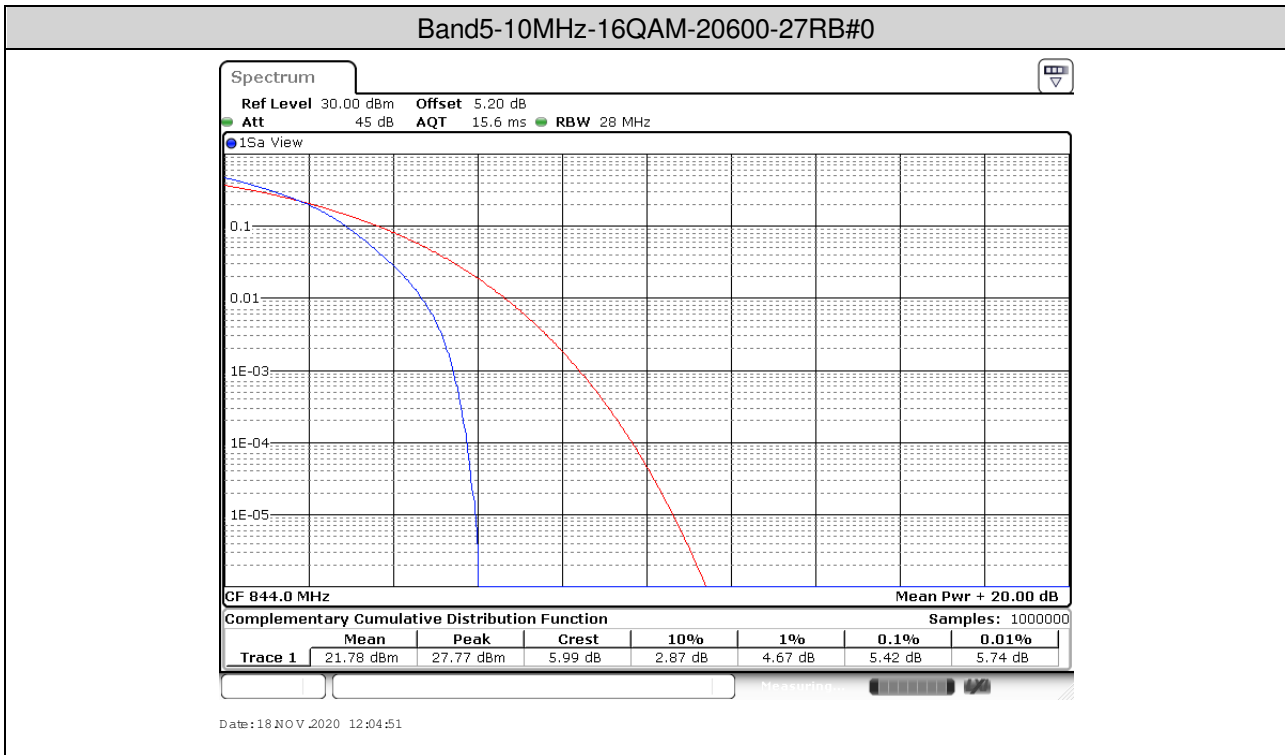


Date: 18 NOV 2020 12:04:34



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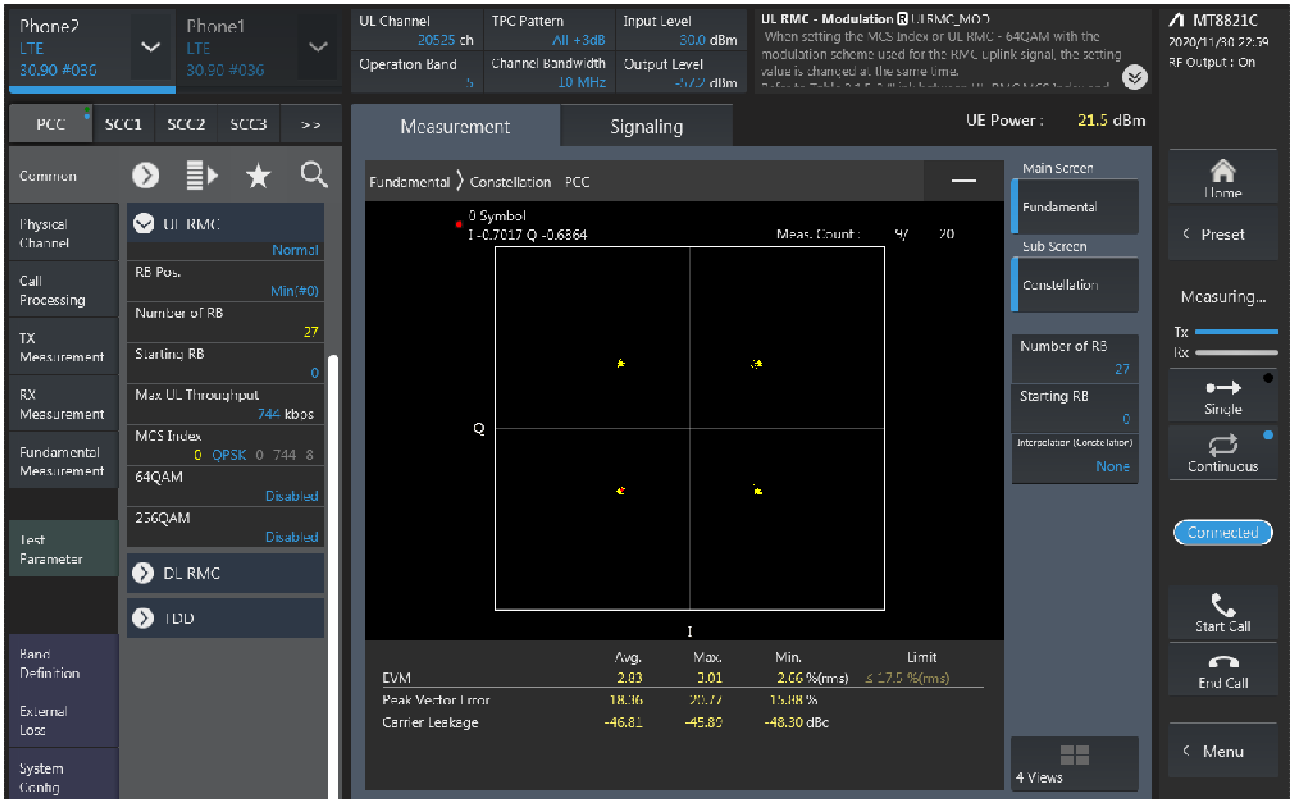
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### 3 Modulation Characteristics

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

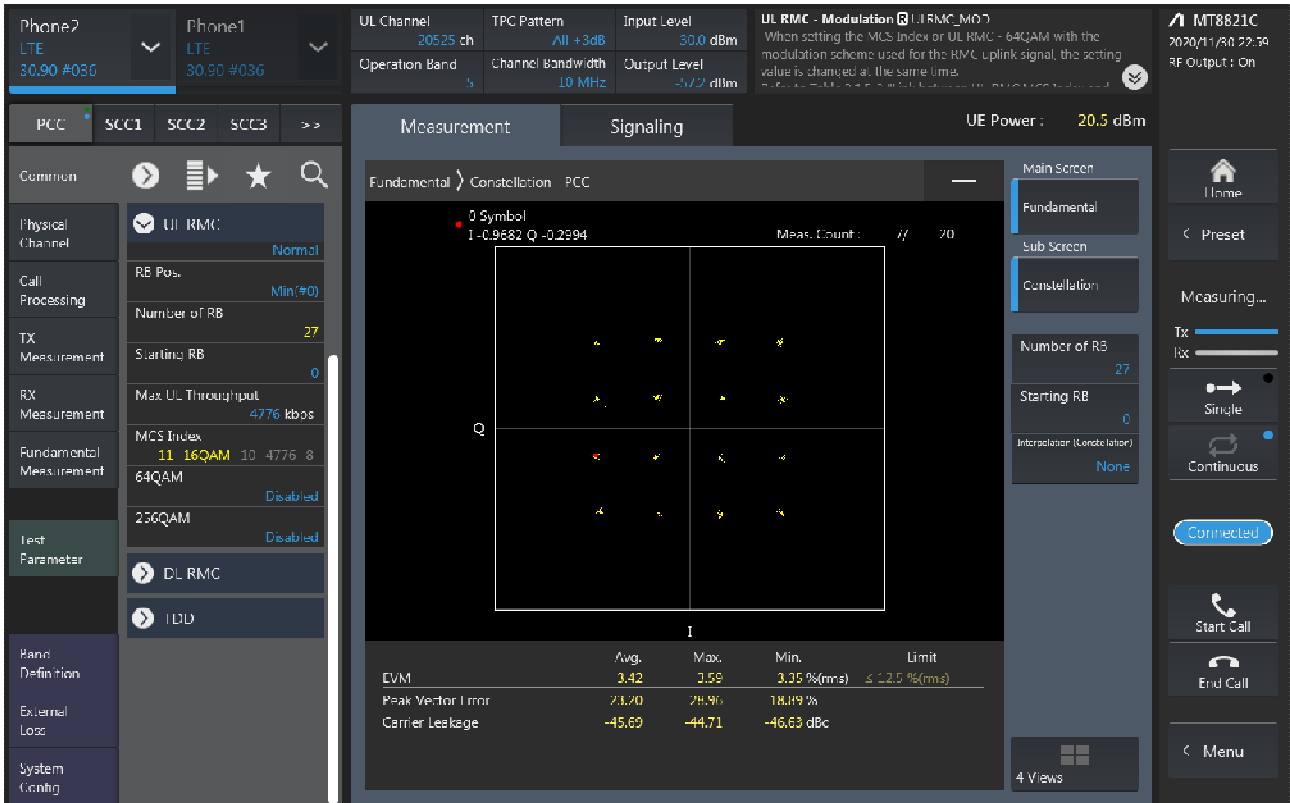
##### 3.1.1 Test Channel = MCH



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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

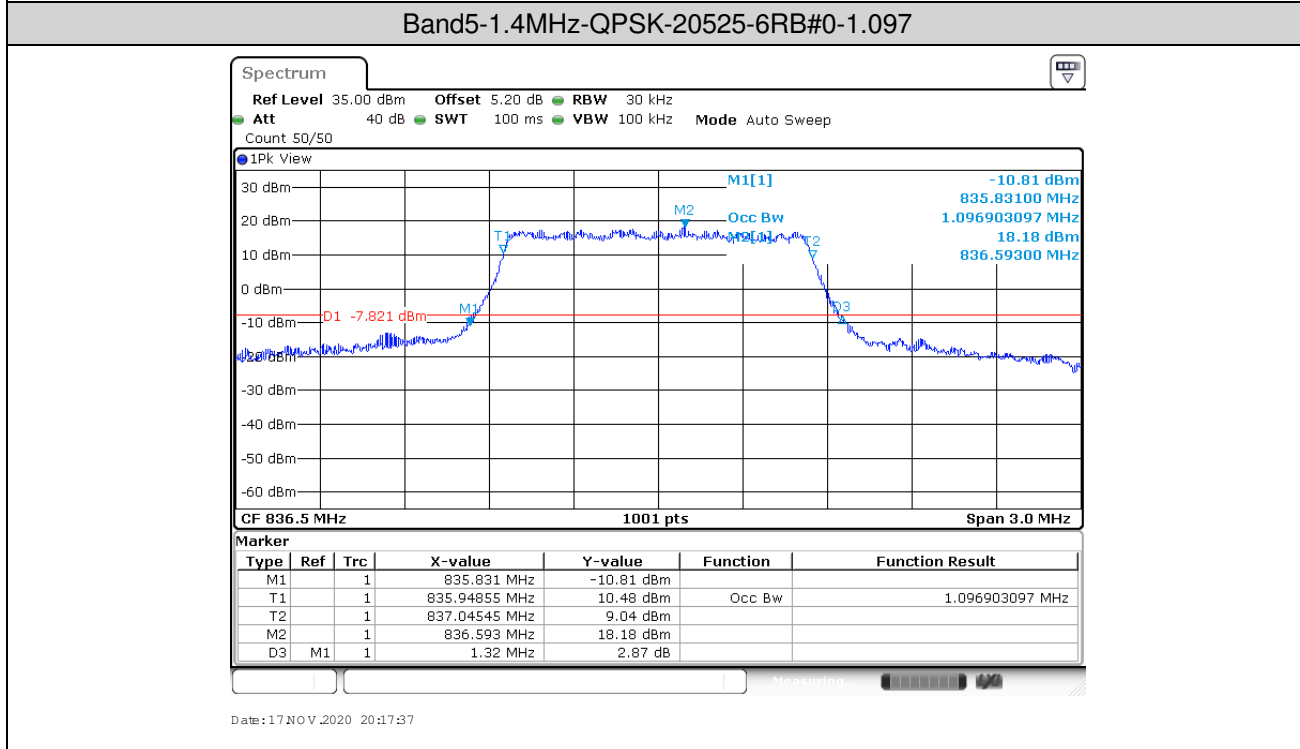
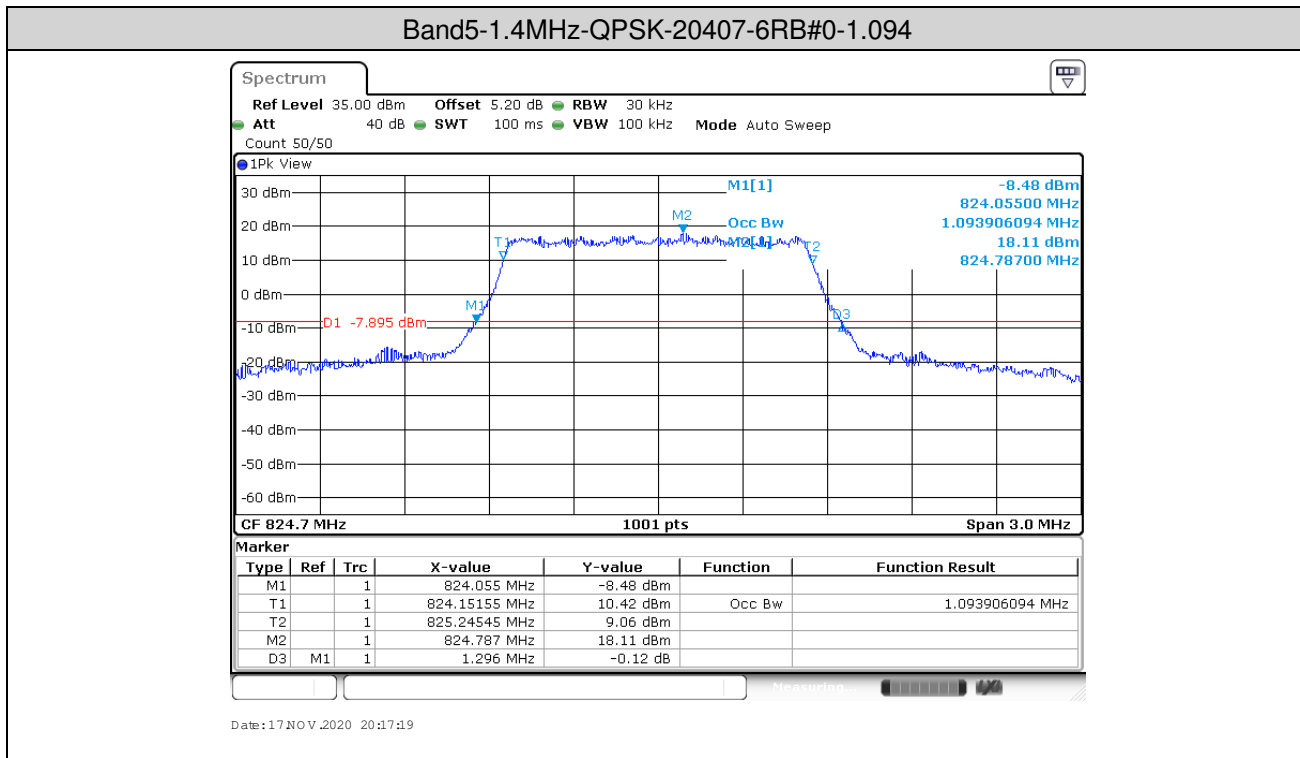
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.094	1.296	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.097	1.320	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.094	1.311	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.091	1.299	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.094	1.302	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.091	1.293	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.697	2.976	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.697	3.006	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.697	3.006	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.691	2.976	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.691	2.982	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.691	2.976	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.466	4.900	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.466	4.970	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.466	4.890	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.476	4.970	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.486	4.990	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.476	4.960	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.931	9.680	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.911	9.740	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.911	9.660	PASS
Band5	10MHz	16QAM	20450	27RB#0	4.895	5.800	PASS
Band5	10MHz	16QAM	20525	27RB#0	4.875	5.600	PASS
Band5	10MHz	16QAM	20600	27RB#0	4.875	5.720	PASS



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### 4.2 Test Plots

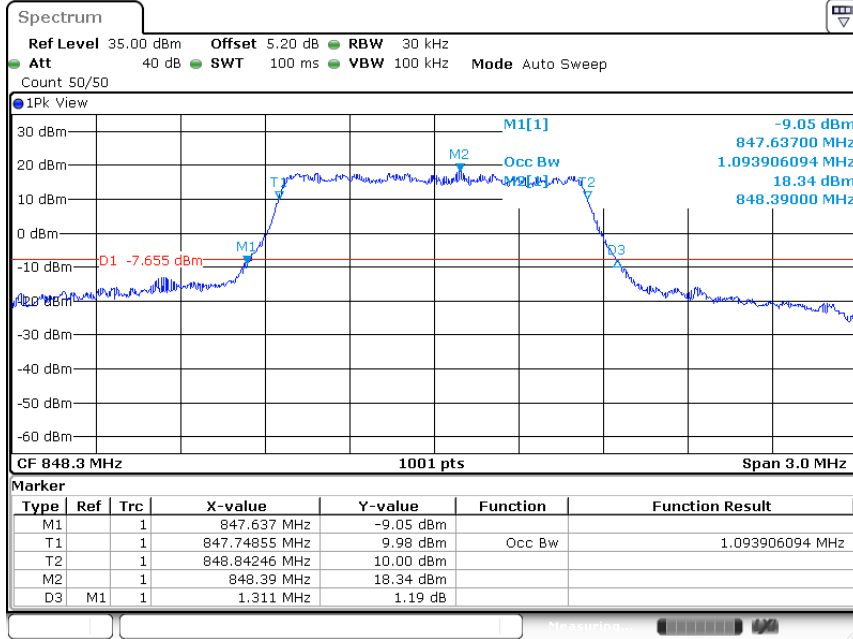


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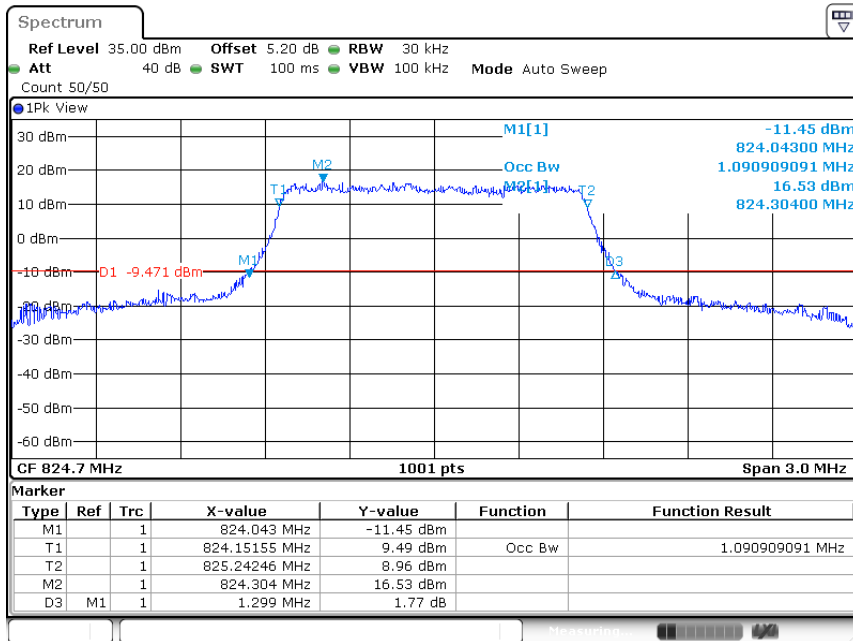
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**Band5-1.4MHz-QPSK-20643-6RB#0-1.094**



Date: 17 NOV. 2020 20:17:56

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



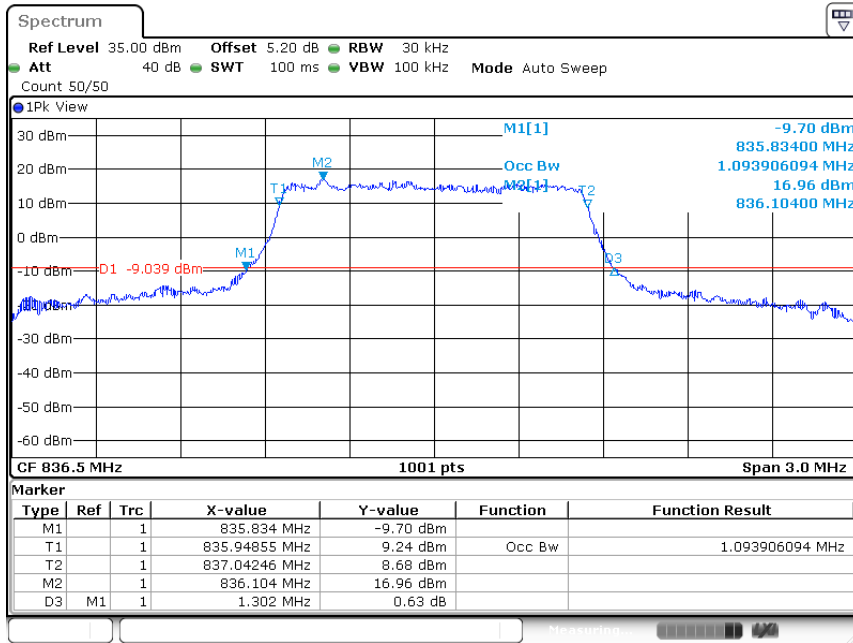
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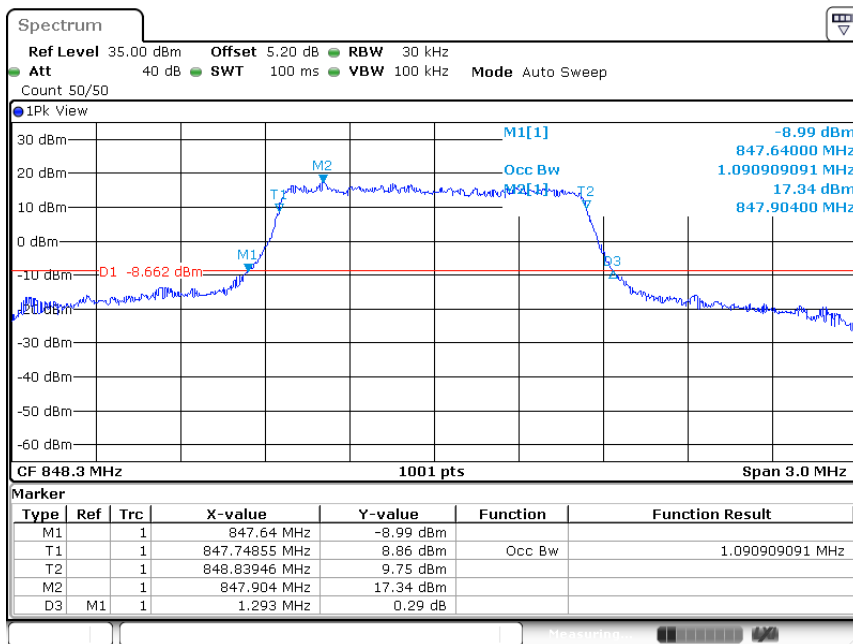


**Band5-1.4MHz-16QAM-20525-6RB#0-1.094**



Date: 18 NOV. 2020 11:27:37

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



Date: 18 NOV. 2020 11:27:55

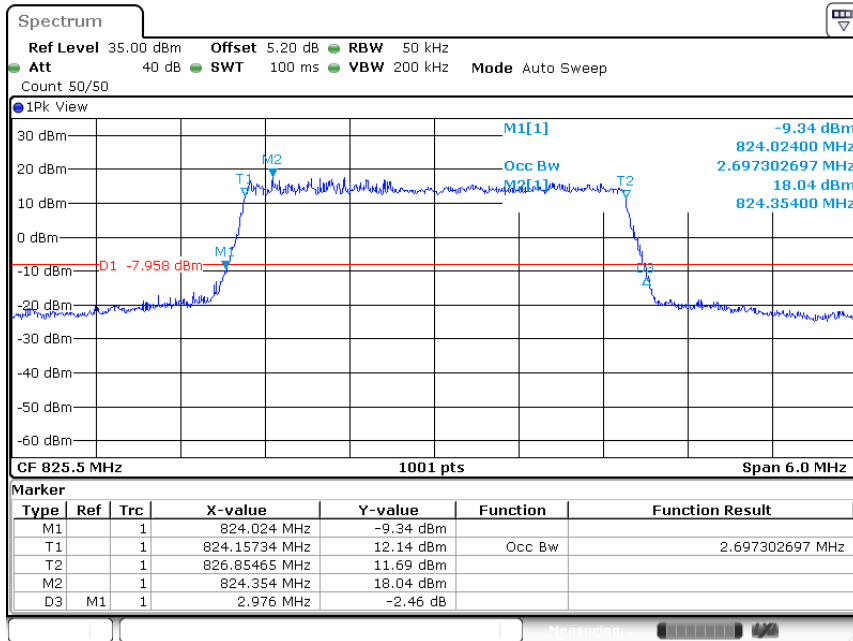


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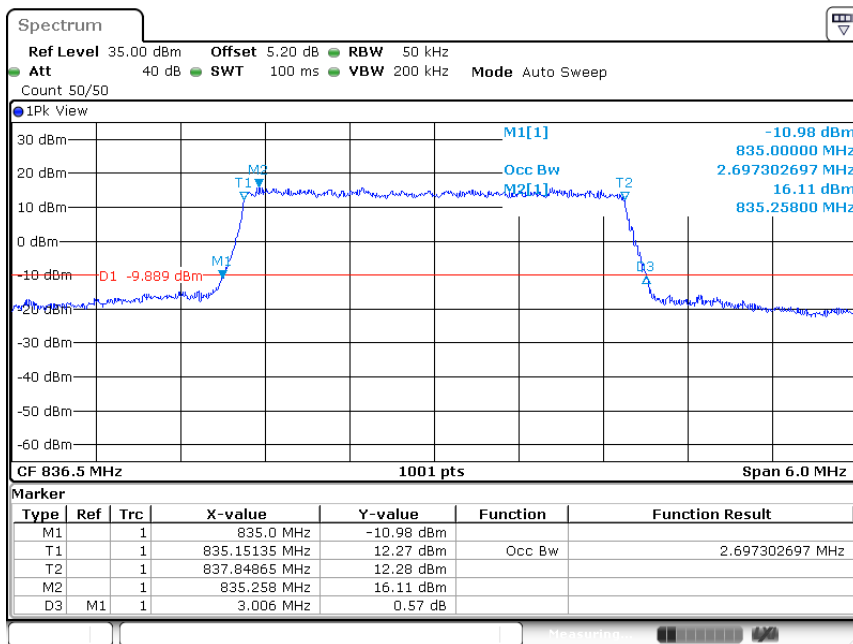
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**Band5-3MHz-QPSK-20415-15RB#0-2.697**



Date: 17 NOV. 2020 20:18:20

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

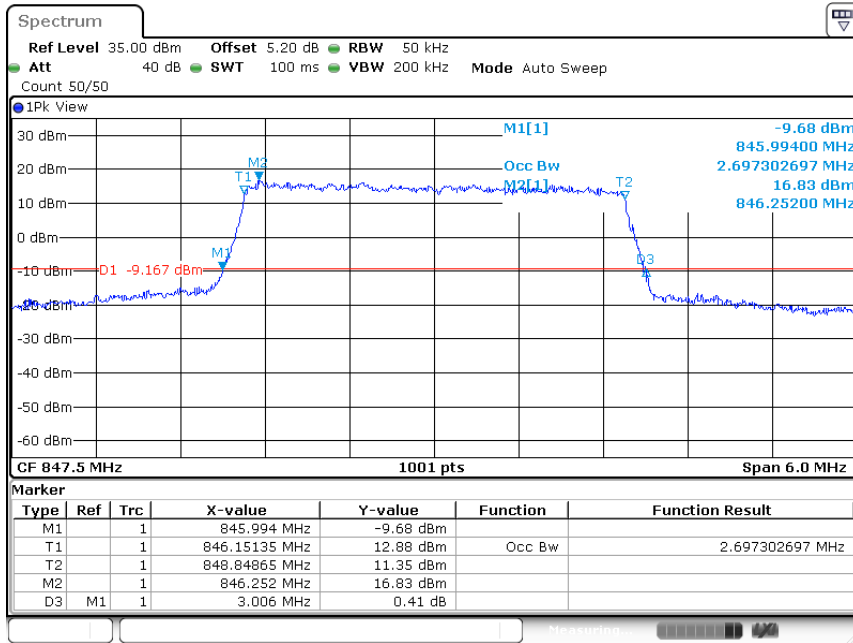


Date: 17 NOV. 2020 20:18:40



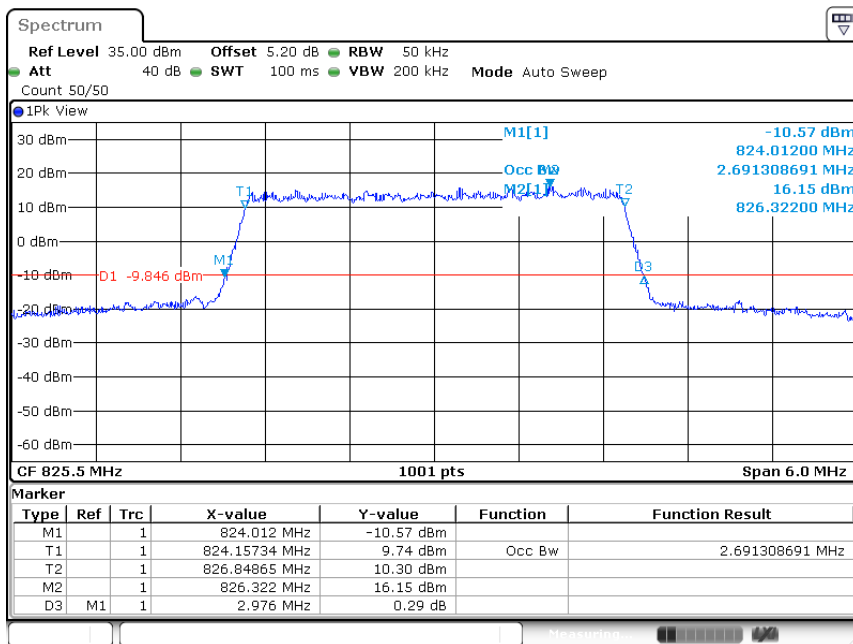
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**Band5-3MHz-QPSK-20635-15RB#0-2.697**



Date: 17 NOV 2020 20:18:59

**Band5-3MHz-16QAM-20415-15RB#0-2.691**

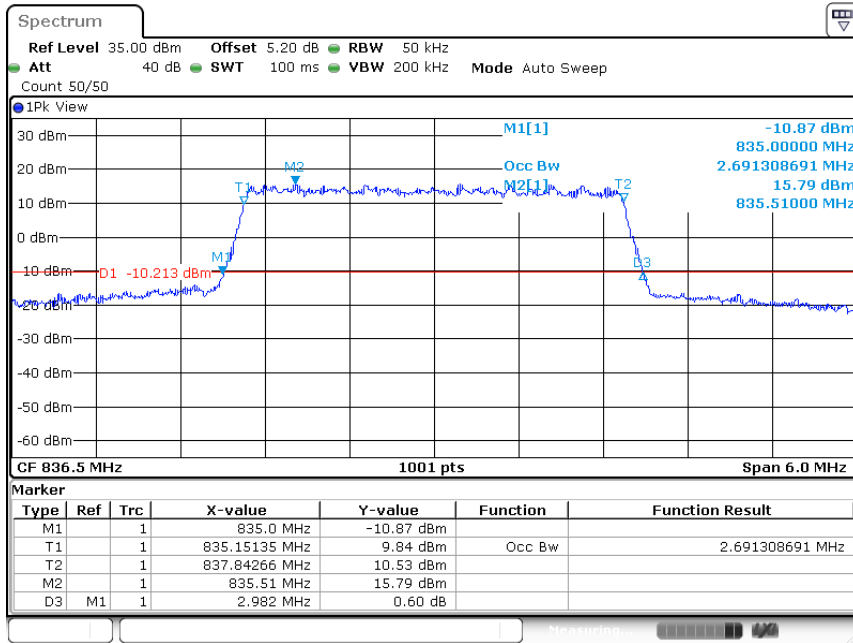


Date: 18 NOV 2020 11:28:19



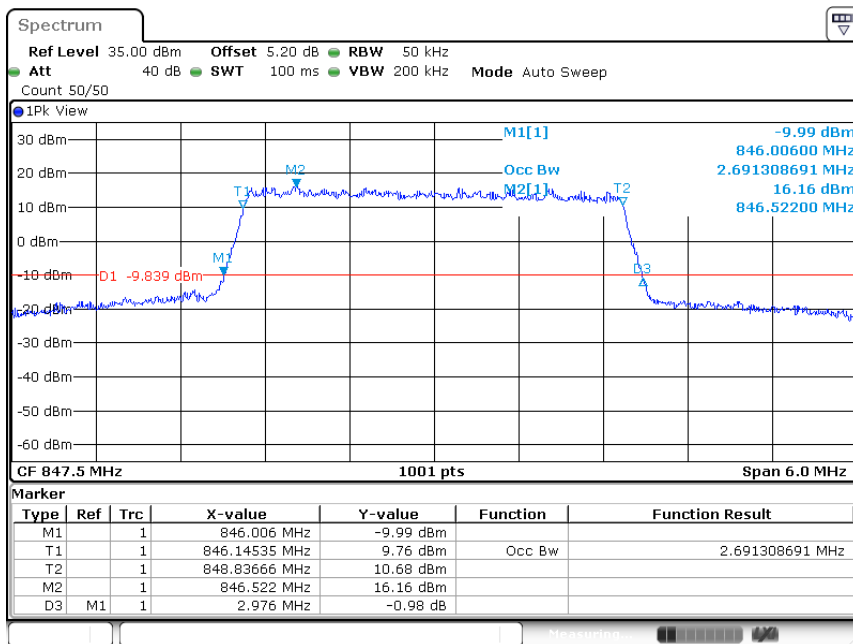
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**Band5-3MHz-16QAM-20525-15RB#0-2.691**



Date: 18 NOV. 2020 11:28:38

**Band5-3MHz-16QAM-20635-15RB#0-2.691**

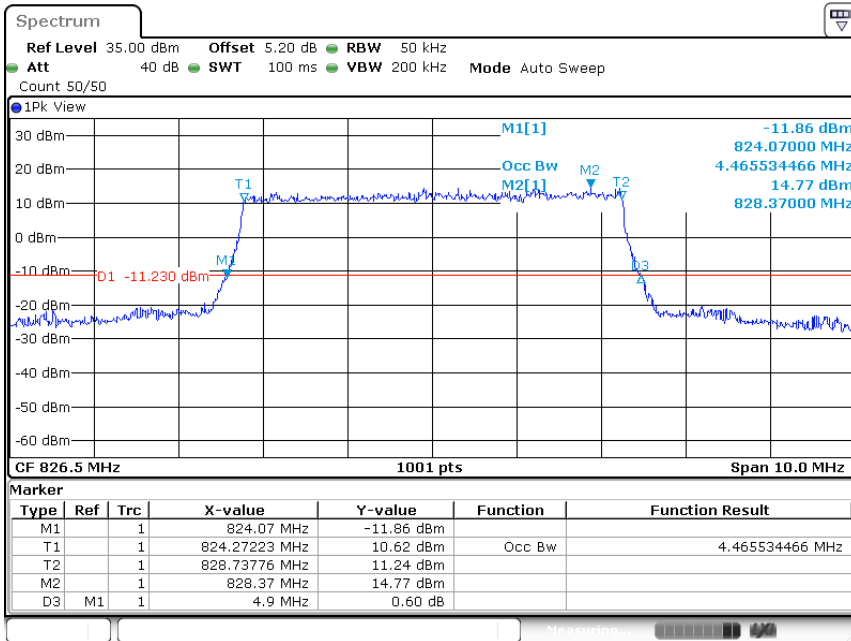


Date: 18 NOV. 2020 11:28:57



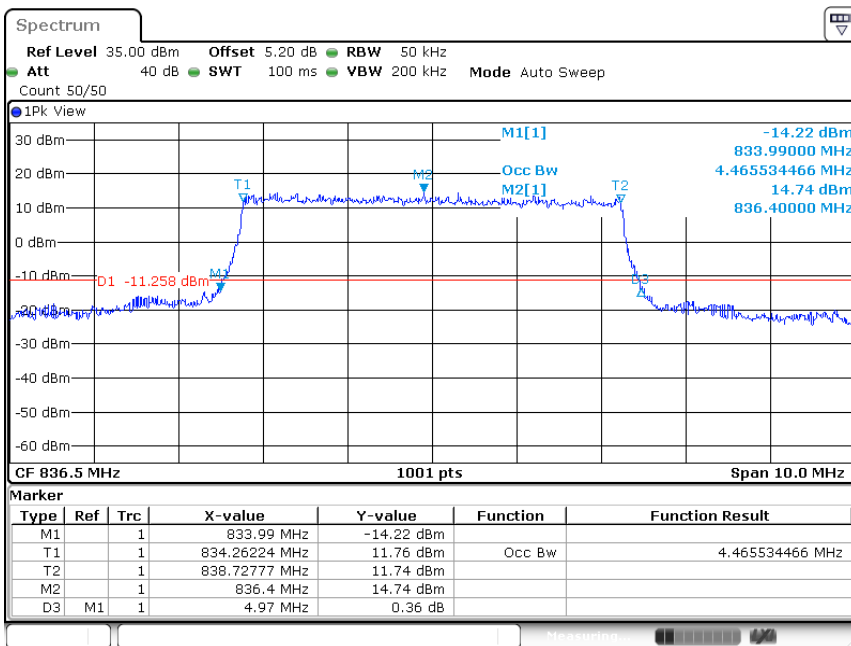
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**Band5-5MHz-QPSK-20425-25RB#0-4.466**



Date: 17 NOV 2020 20:19:22

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



Date: 17 NOV 2020 20:19:41

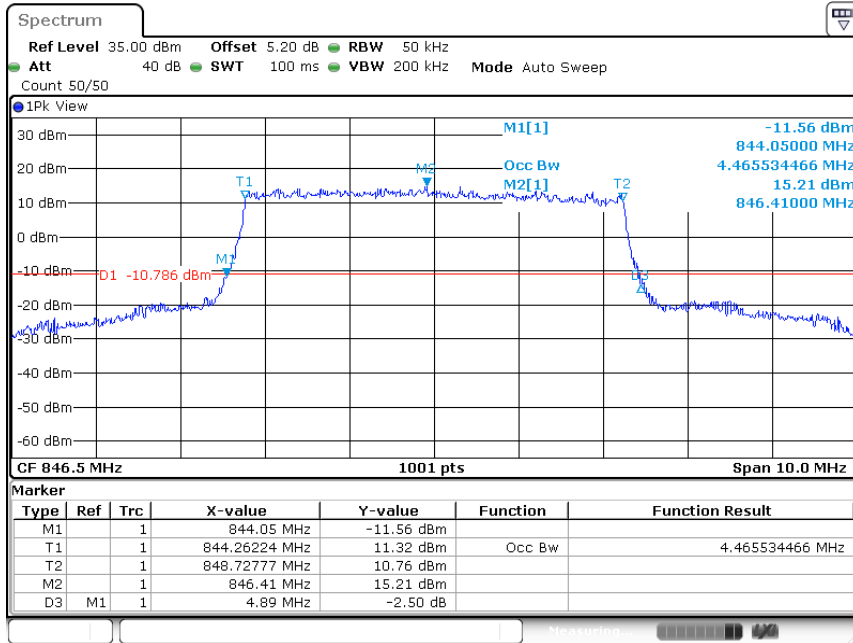


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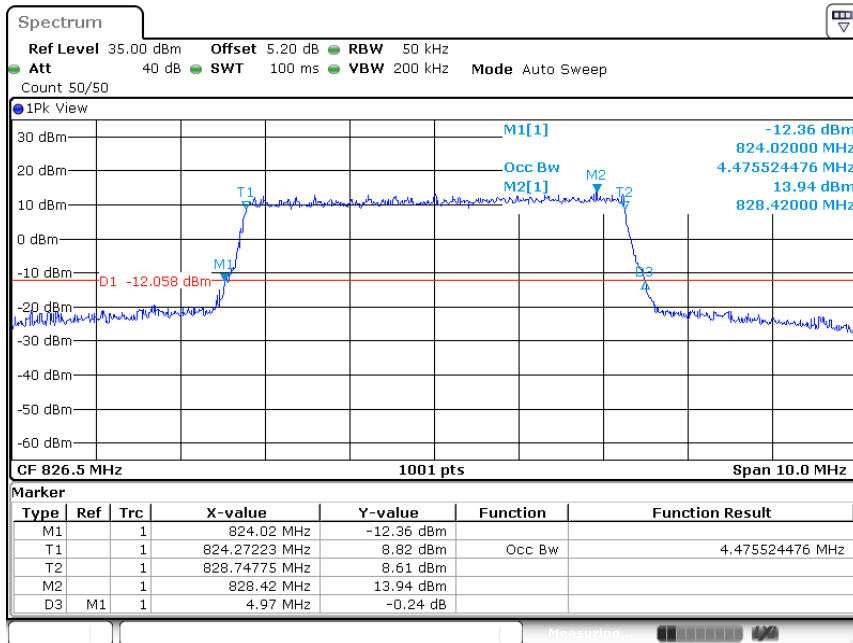
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中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



Date: 17 NOV 2020 20:20:00

**Band5-5MHz-16QAM-20425-25RB#0-4.476**

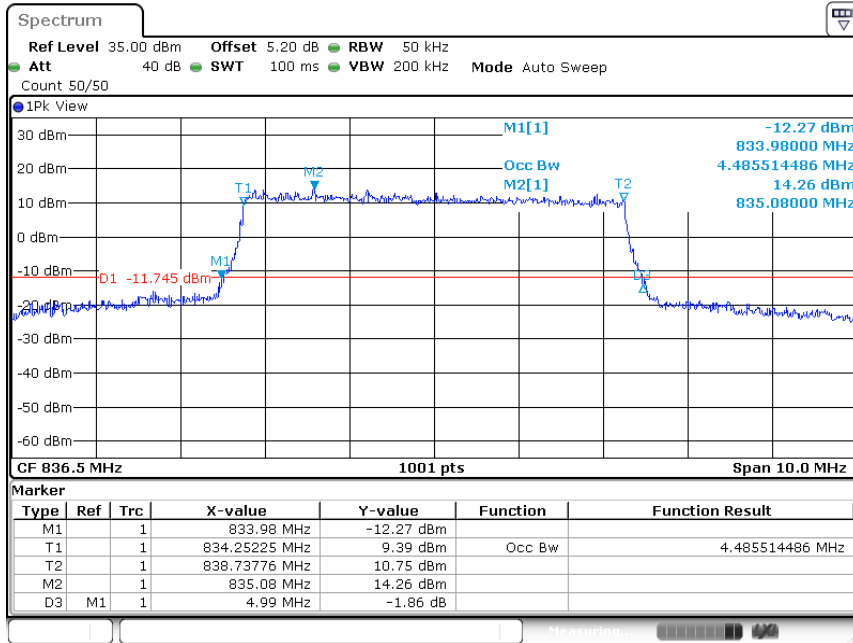


Date: 18 NOV 2020 11:29:20



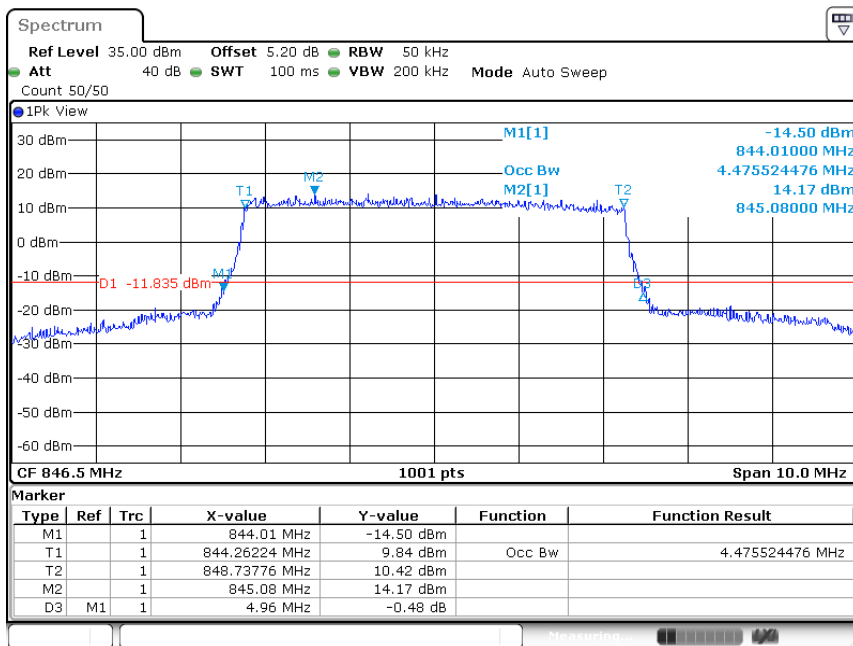
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**Band5-5MHz-16QAM-20525-25RB#0-4.486**



Date: 18 NOV. 2020 11:29:39

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

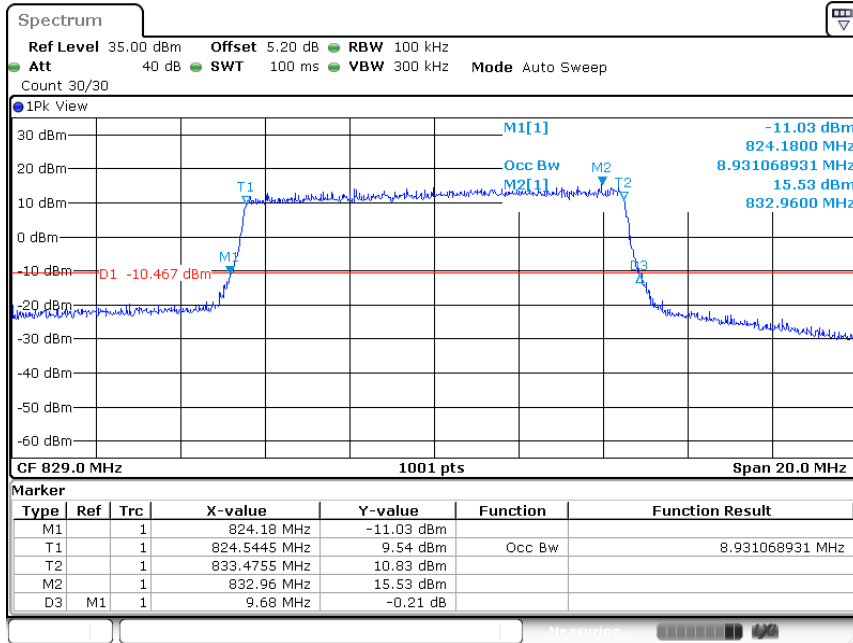


Date: 18 NOV. 2020 11:29:57



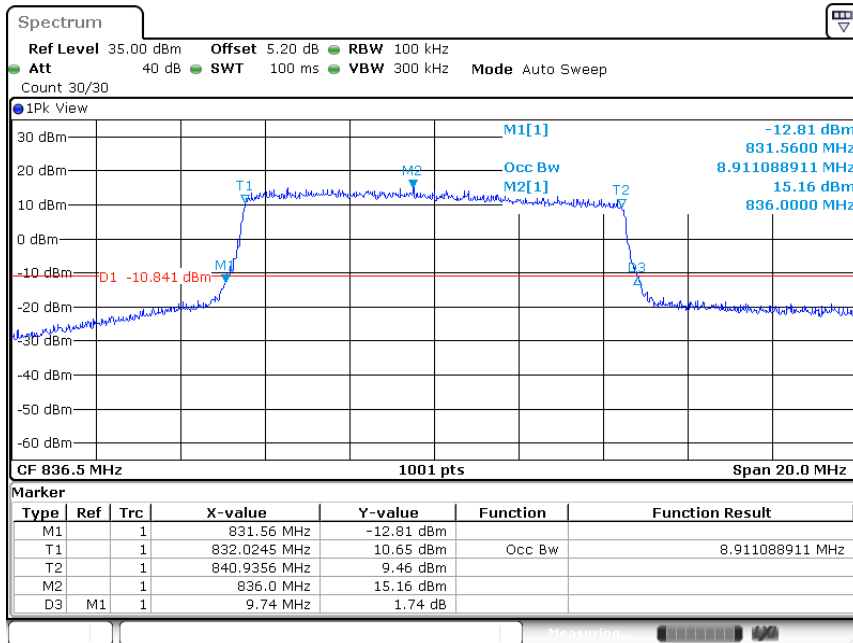
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**Band5-10MHz-QPSK-20450-50RB#0-8.931**



Date: 23 NOV. 2020 20:52:22

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



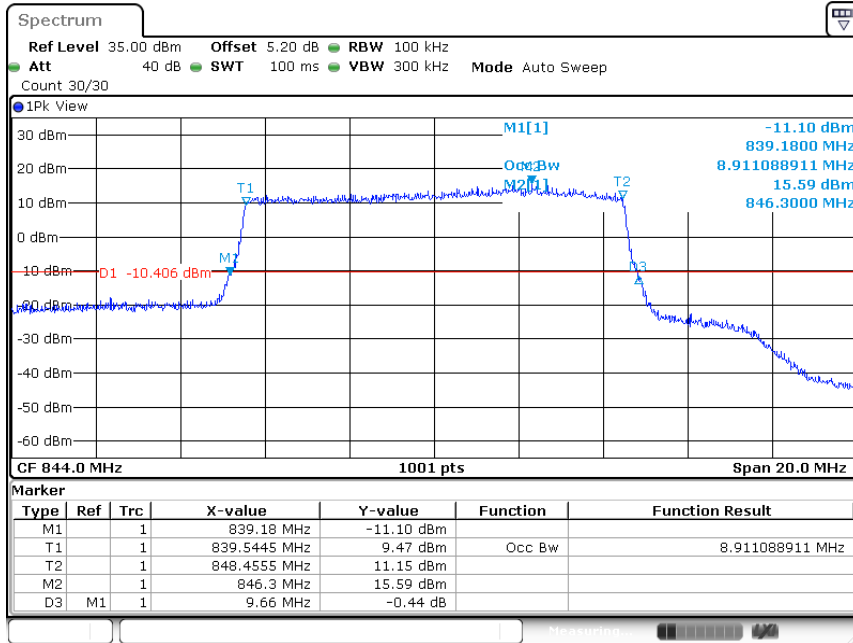
Date: 23 NOV. 2020 20:52:34



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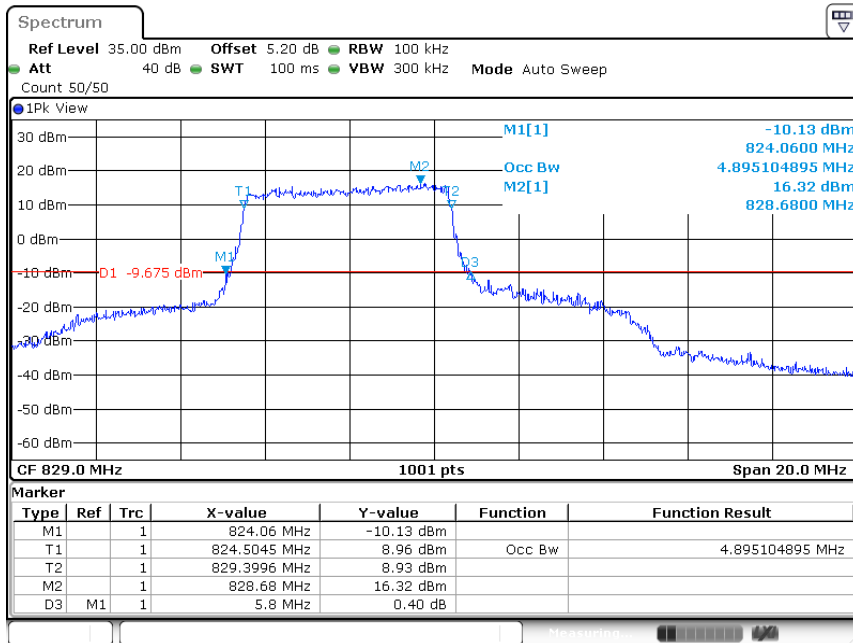


**Band5-10MHz-QPSK-20600-50RB#0-8.911**



Date: 23 NOV. 2020 20:52:47

**Band5-10MHz-16QAM-20450-27RB#0-4.895**

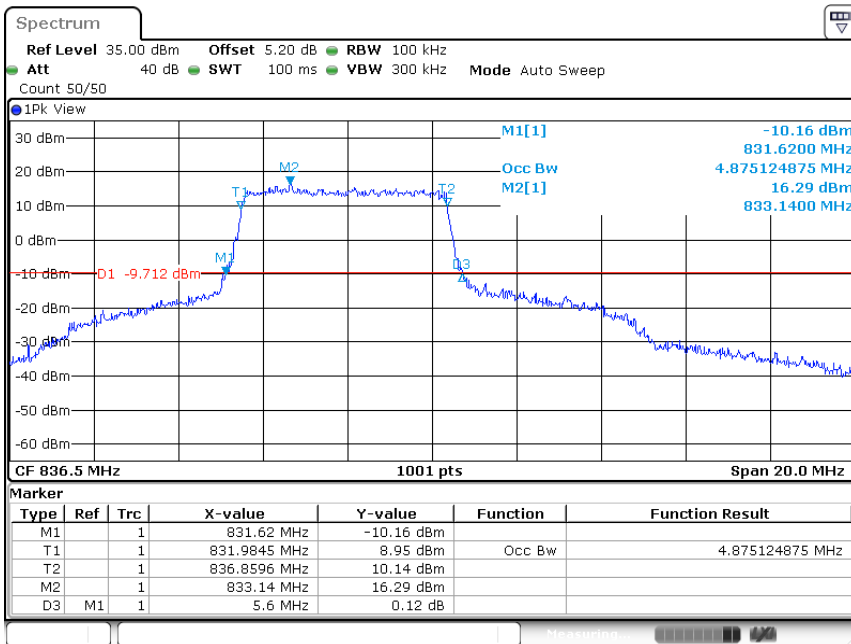


Date: 18 NOV. 2020 11:30:21



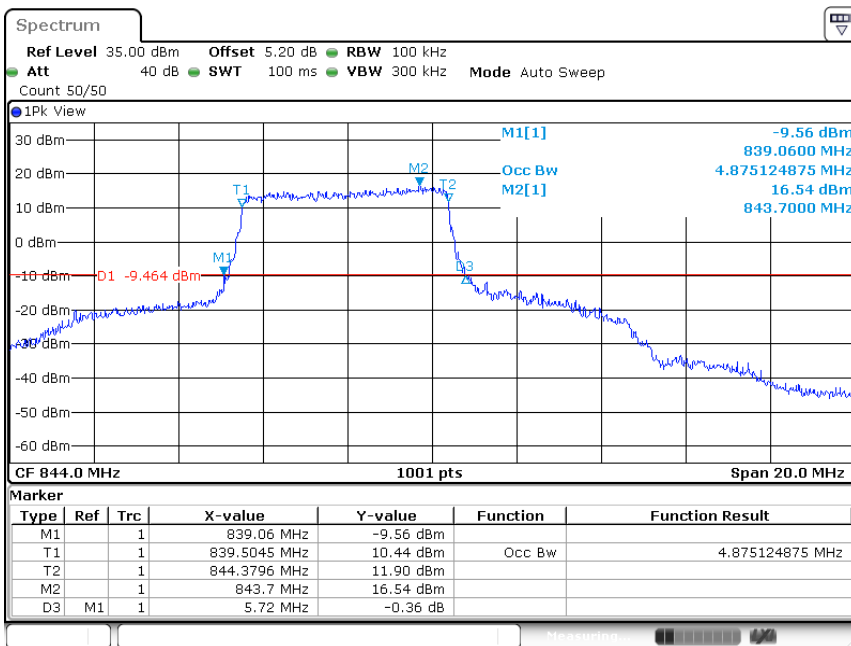
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**Band5-10MHz-16QAM-20525-27RB#0-4.875**



Date: 18 NOV 2020 11:30:40

**Band5-10MHz-16QAM-20600-27RB#0-4.875**



Date: 18 NOV 2020 11:30:58

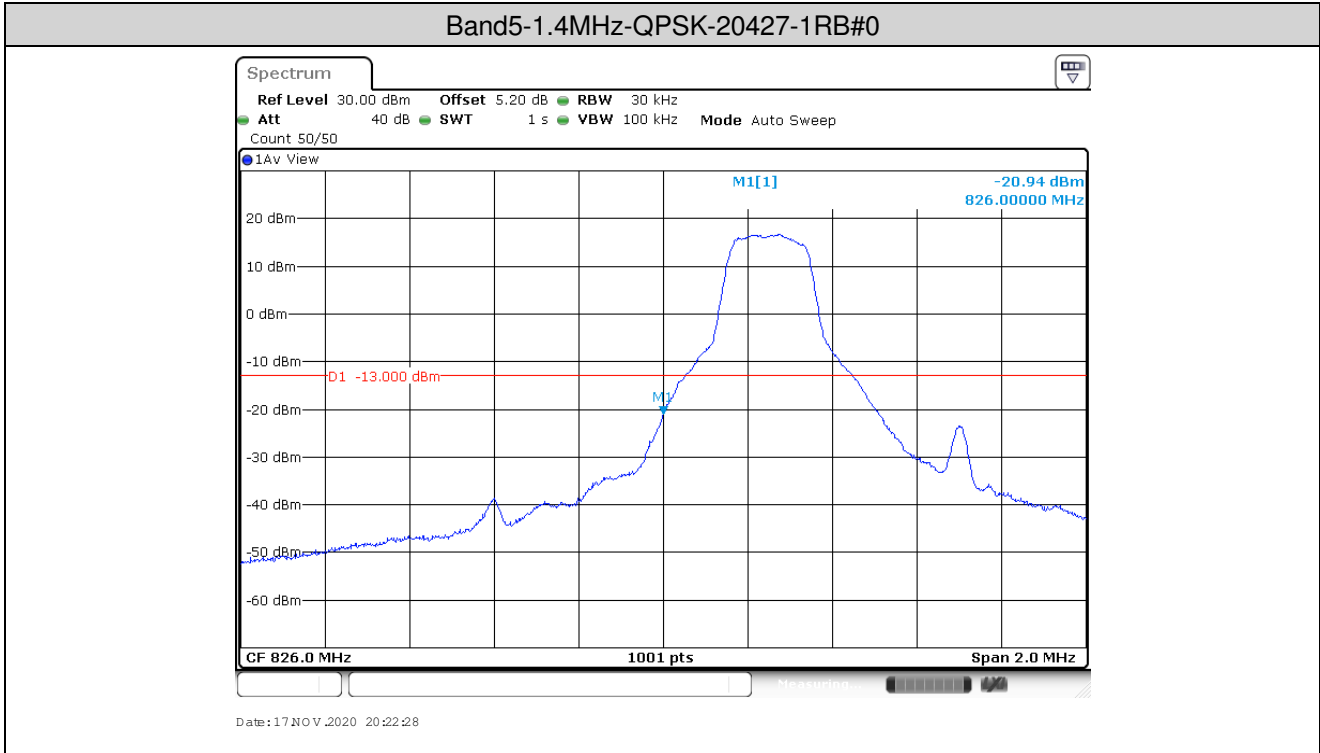


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## 5 Band Edge Compliance

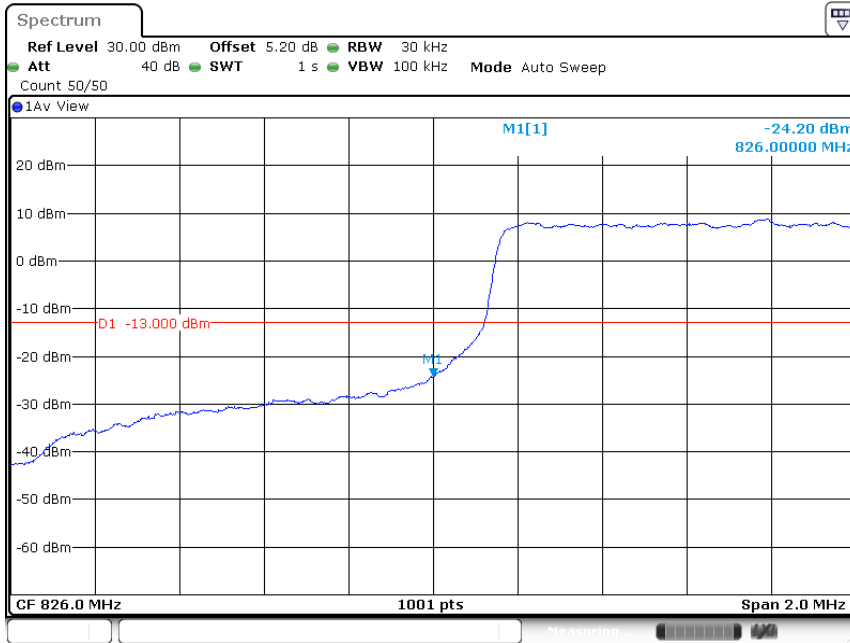
### 5.1 Test Plots



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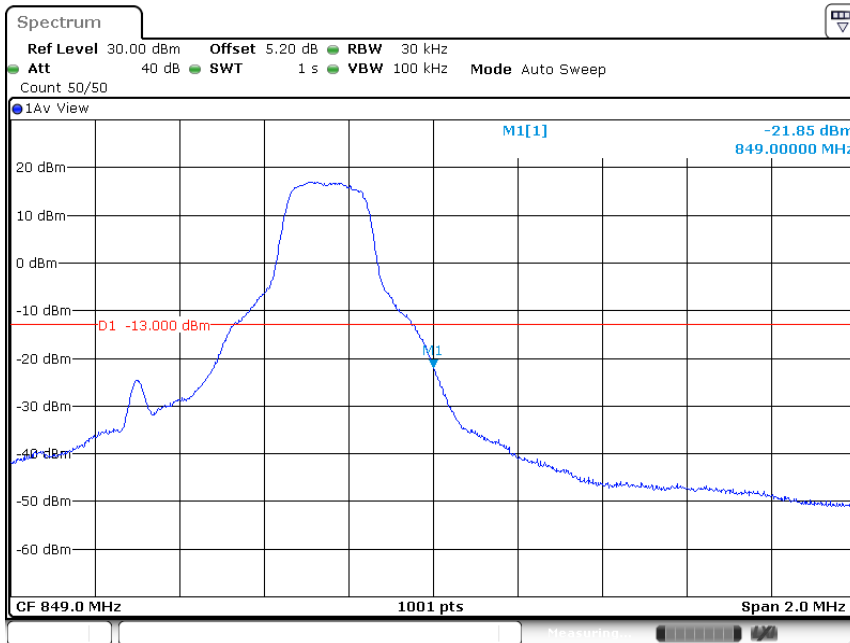
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**Band5-1.4MHz-QPSK-20427-6RB#0**



Date: 17 NOV 2020 20:23:46

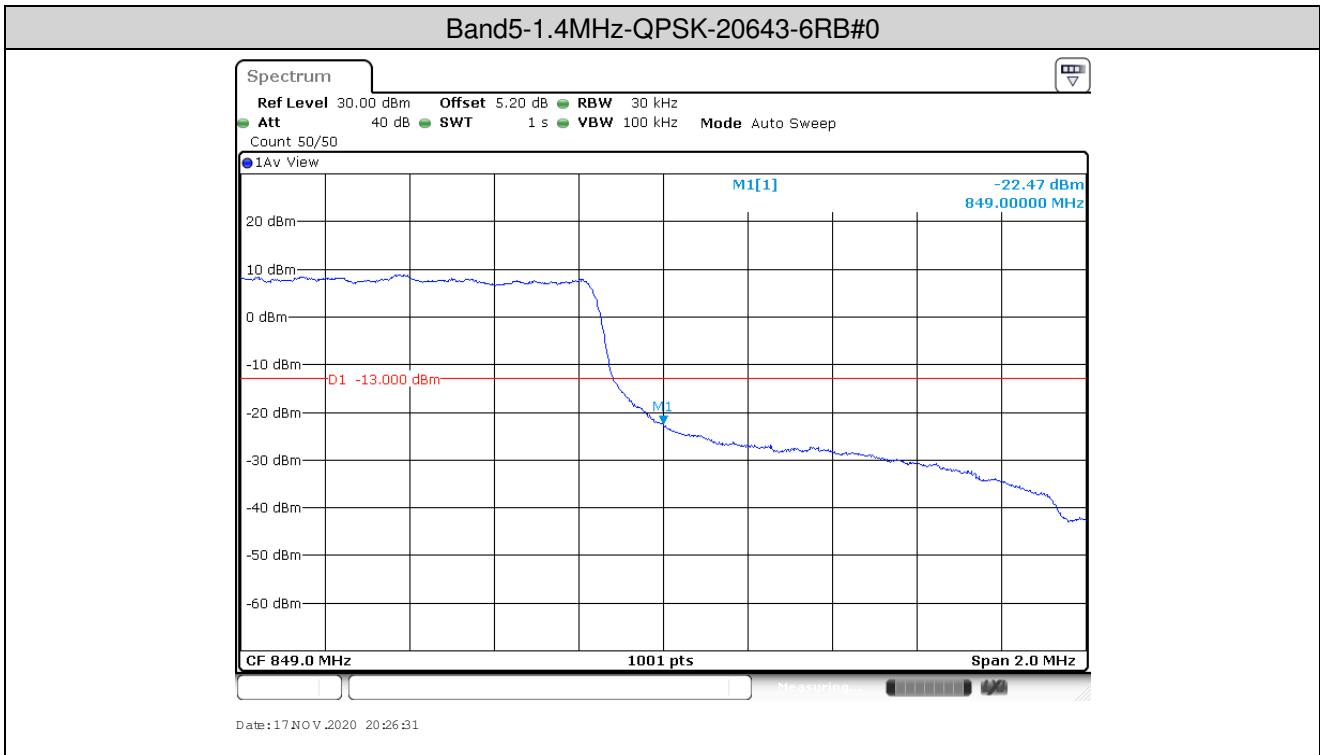
**Band5-1.4MHz-QPSK-20643-1RB#5**



Date: 17 NOV 2020 20:25:12



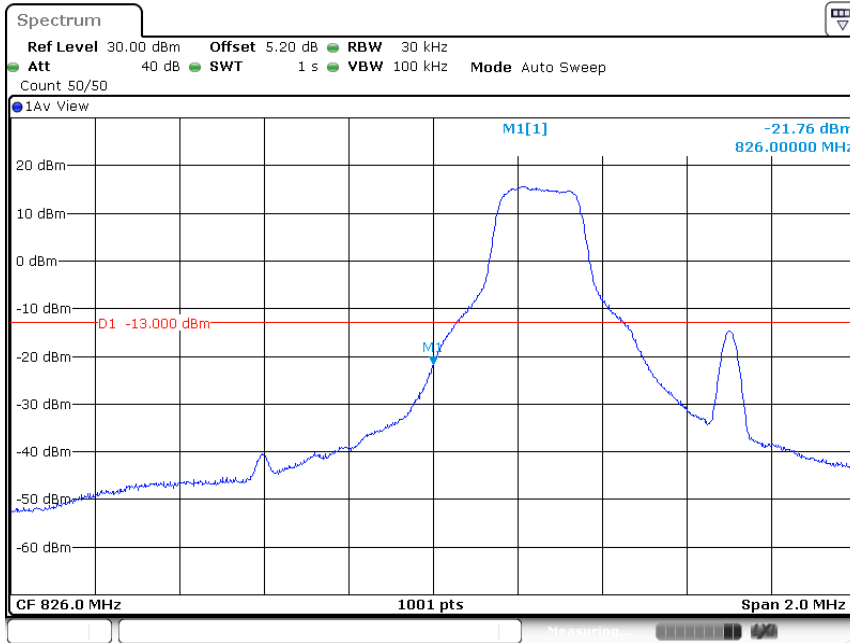
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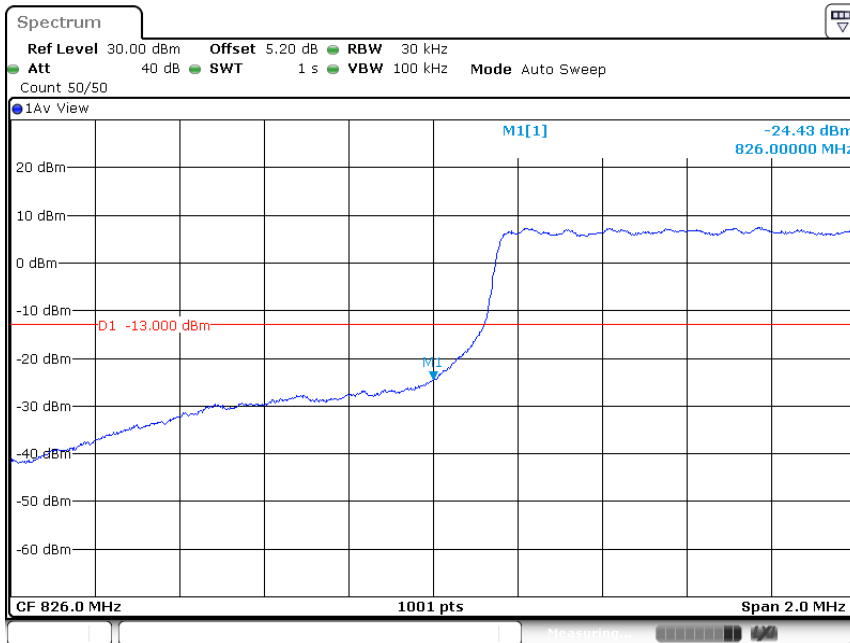
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**Band5-1.4MHz-16QAM-20427-1RB#0**



Date: 18 NOV 2020 11:32:25

**Band5-1.4MHz-16QAM-20427-6RB#0**



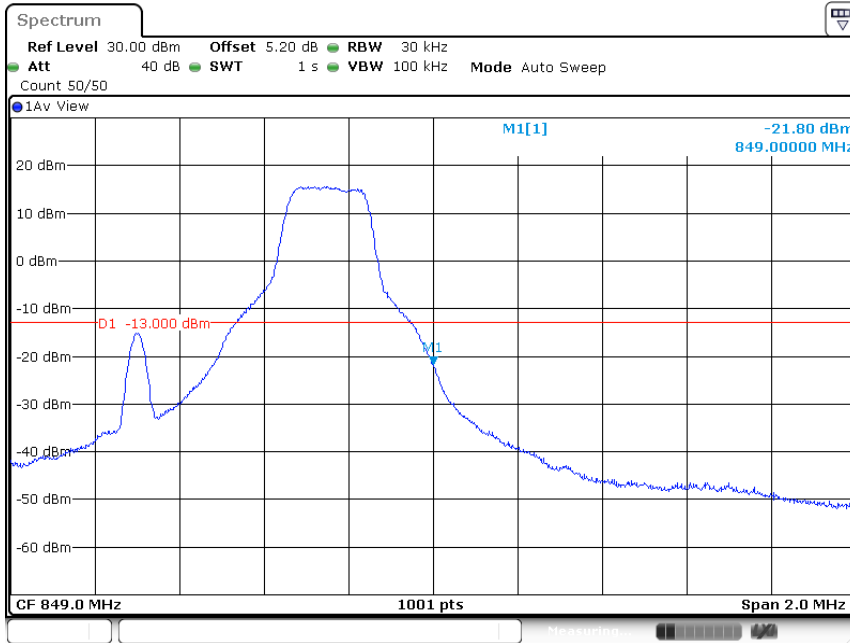
Date: 18 NOV 2020 11:33:43



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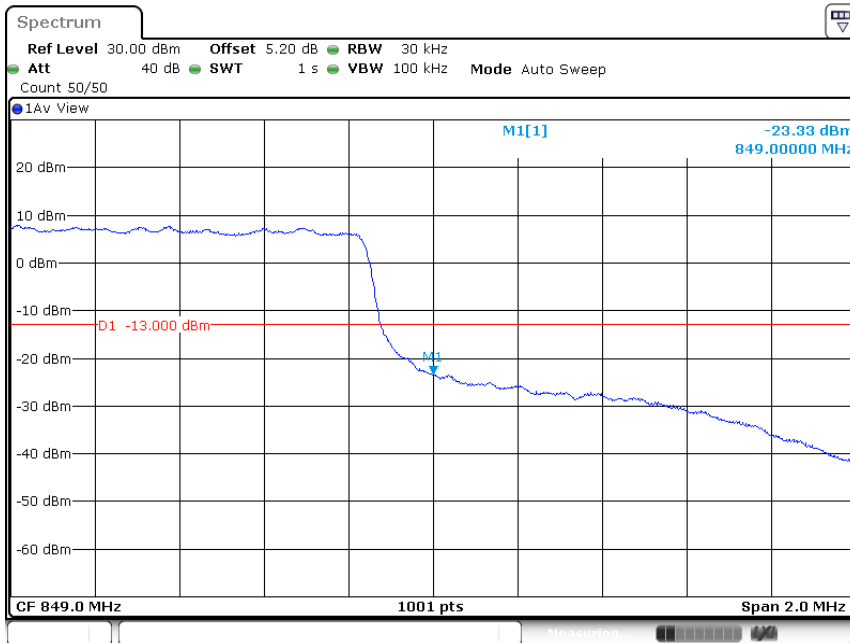
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**Band5-1.4MHz-16QAM-20643-1RB#5**



Date: 18 NOV 2020 11:35:09

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

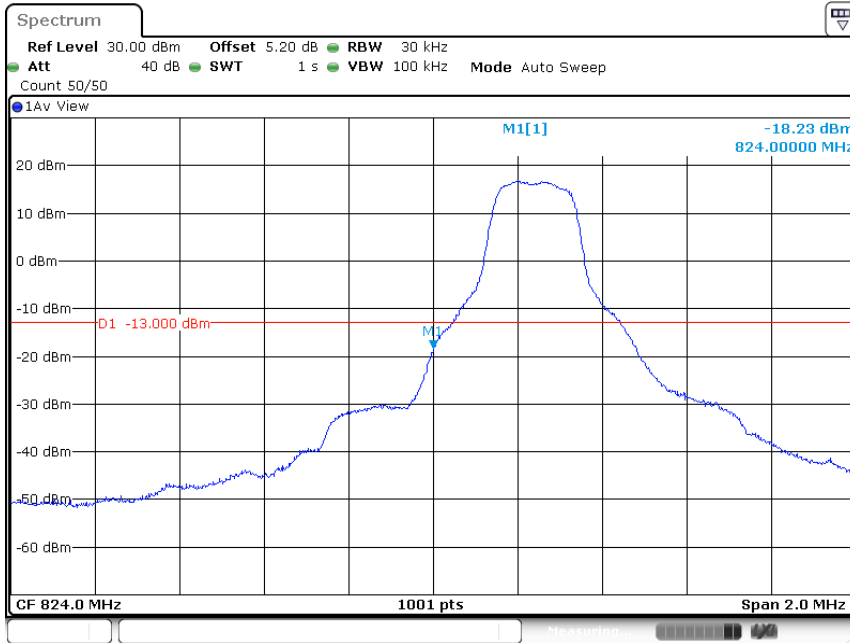


Date: 18 NOV 2020 11:36:27



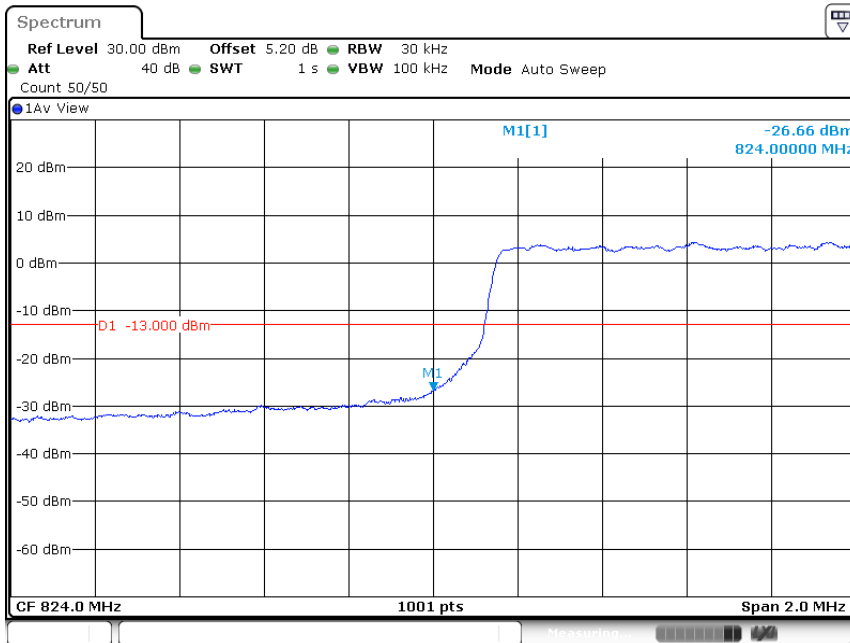
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**Band5-3MHz-QPSK-20415-1RB#0**



Date: 17 NOV 2020 20:27:57

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



Date: 17 NOV 2020 20:29:15



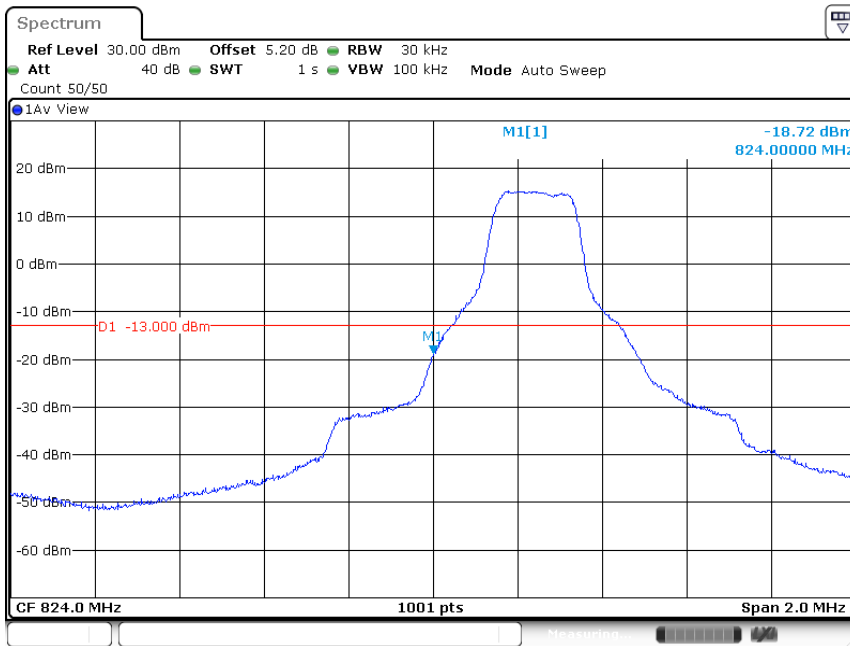
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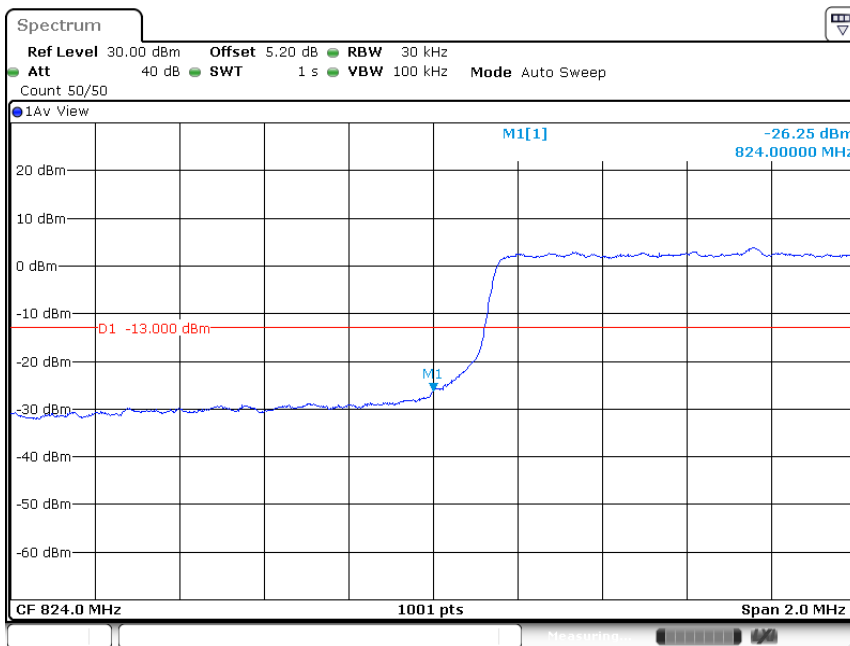


**Band5-3MHz-16QAM-20415-1RB#0**



Date: 18 NOV 2020 11:37:54

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



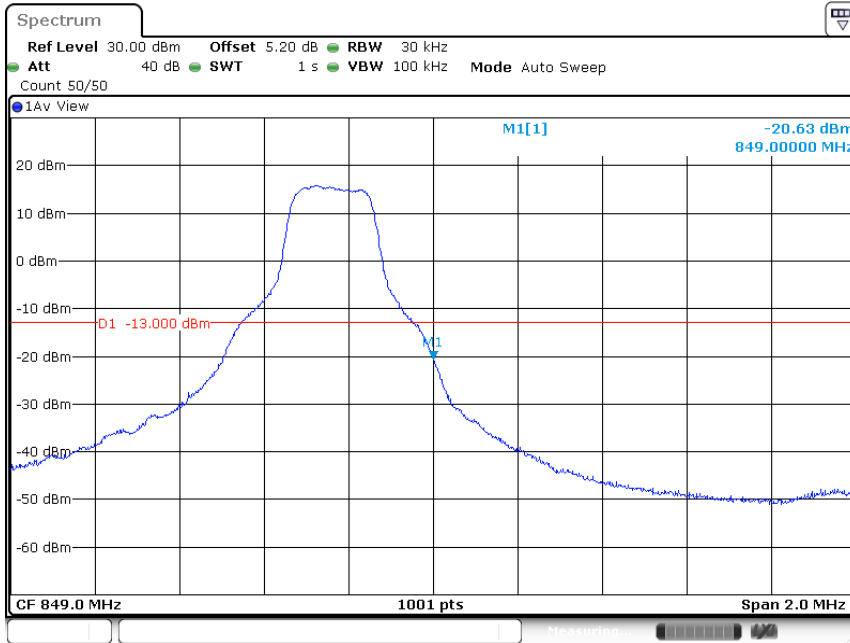
Date: 18 NOV 2020 11:39:12



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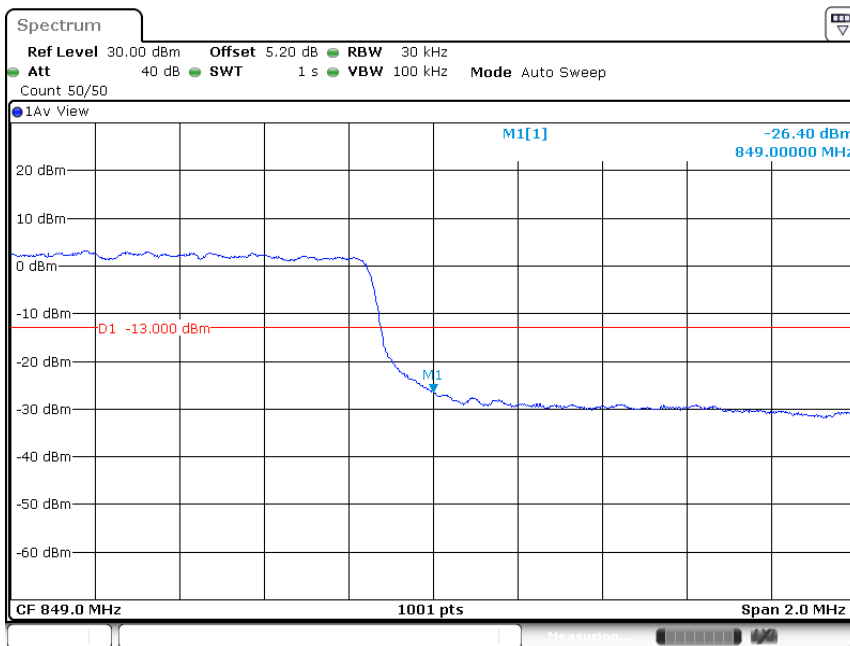
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**Band5-3MHz-16QAM-20635-1RB#14**



Date: 18 NOV 2020 11:40:38

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



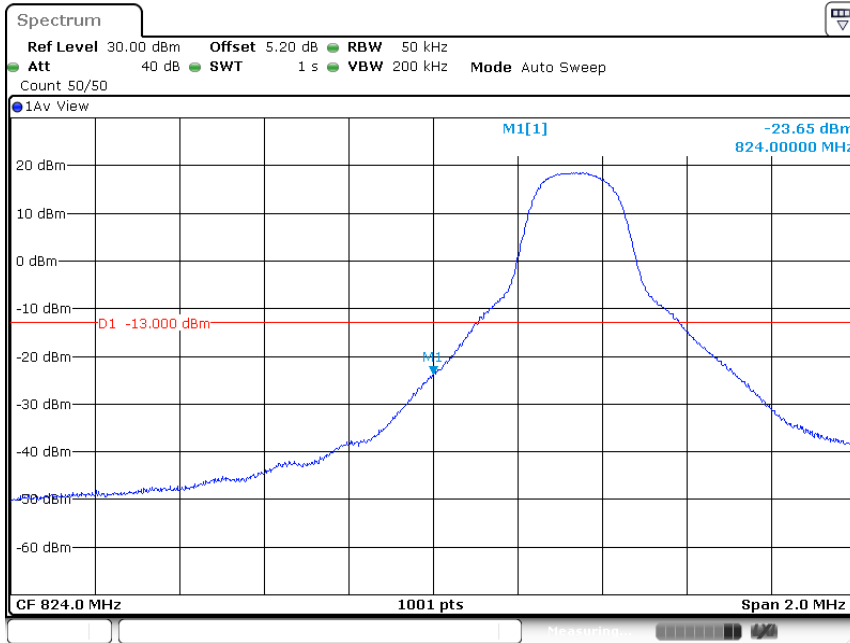
Date: 18 NOV 2020 11:41:56



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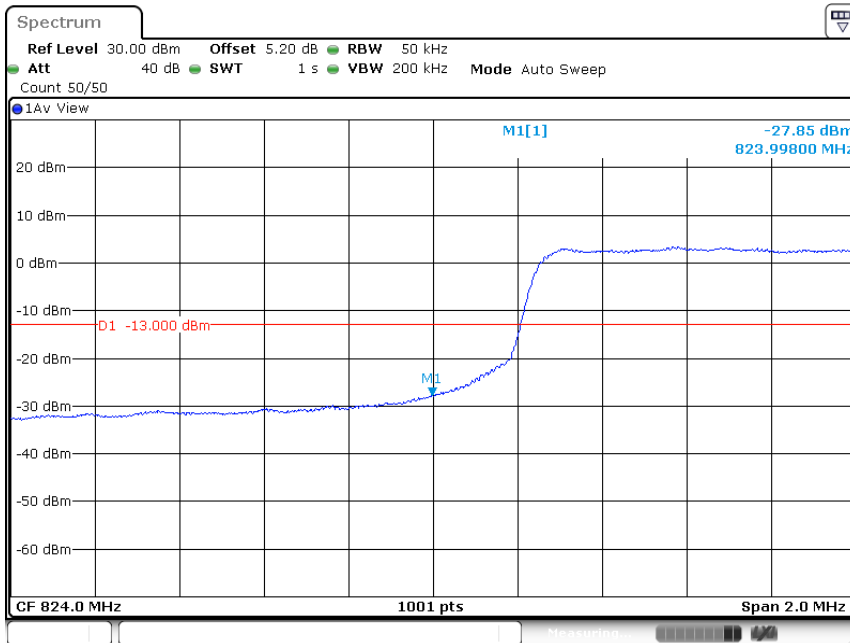
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**Band5-5MHz-QPSK-20425-1RB#0**



Date: 17 NOV 2020 20:33:26

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



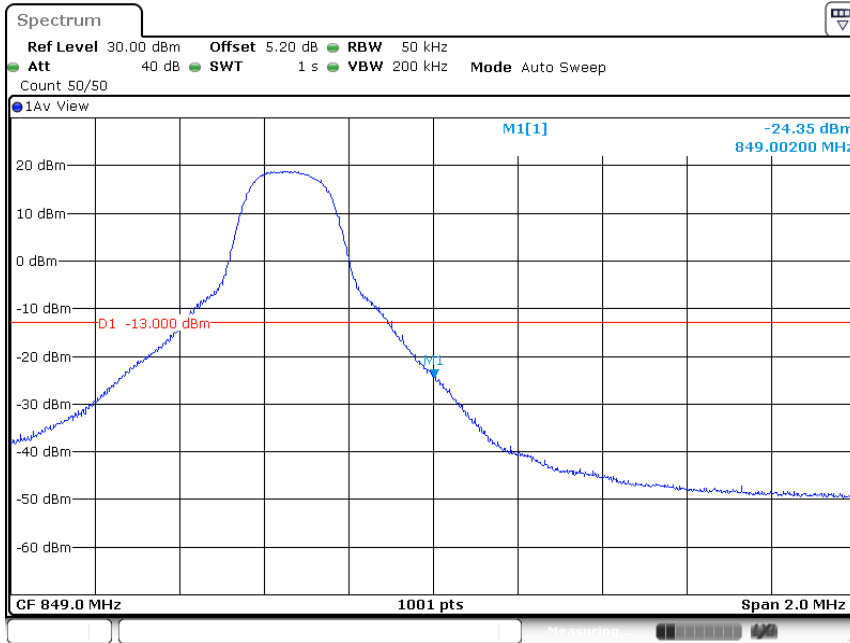
Date: 17 NOV 2020 20:34:44



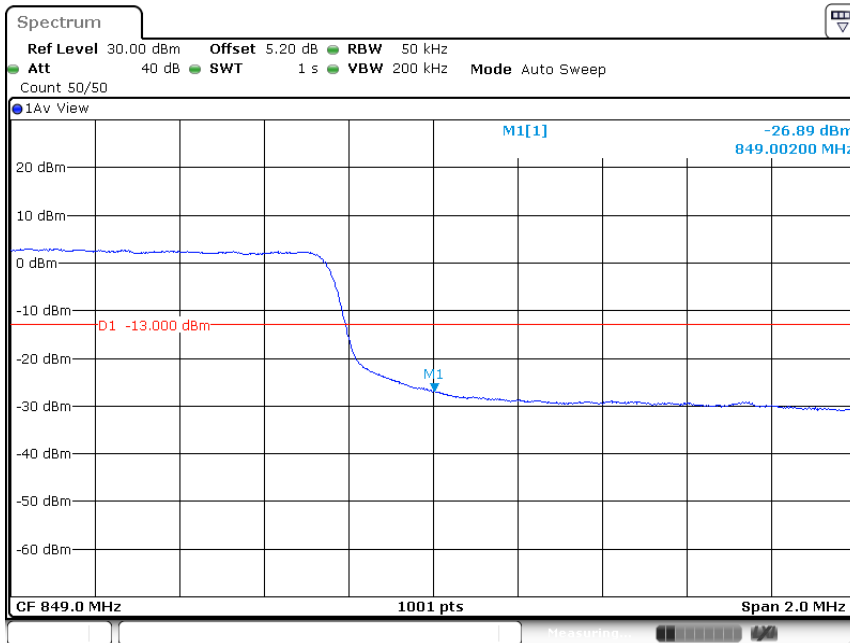
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**Band5-5MHz-QPSK-20625-1RB#24**



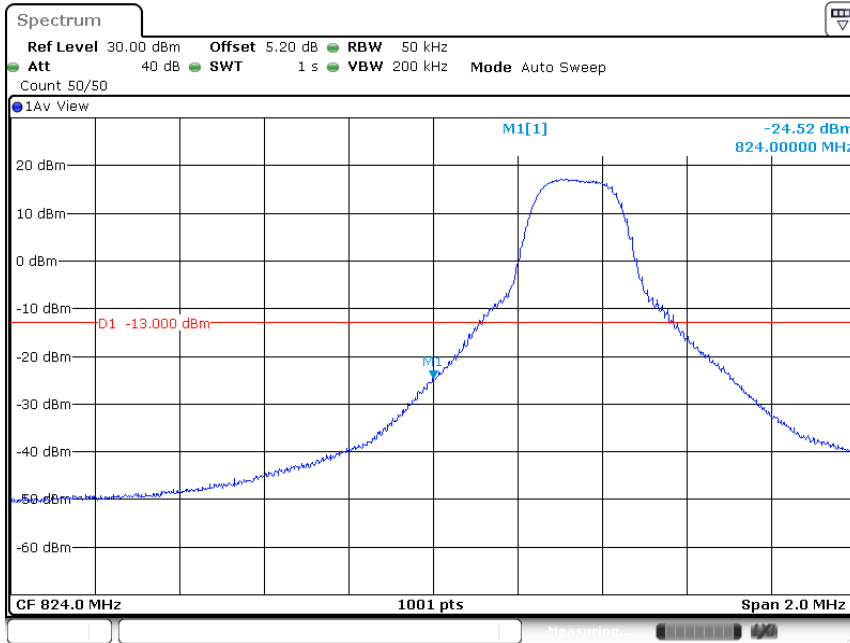
**Band5-5MHz-QPSK-20625-25RB#0**



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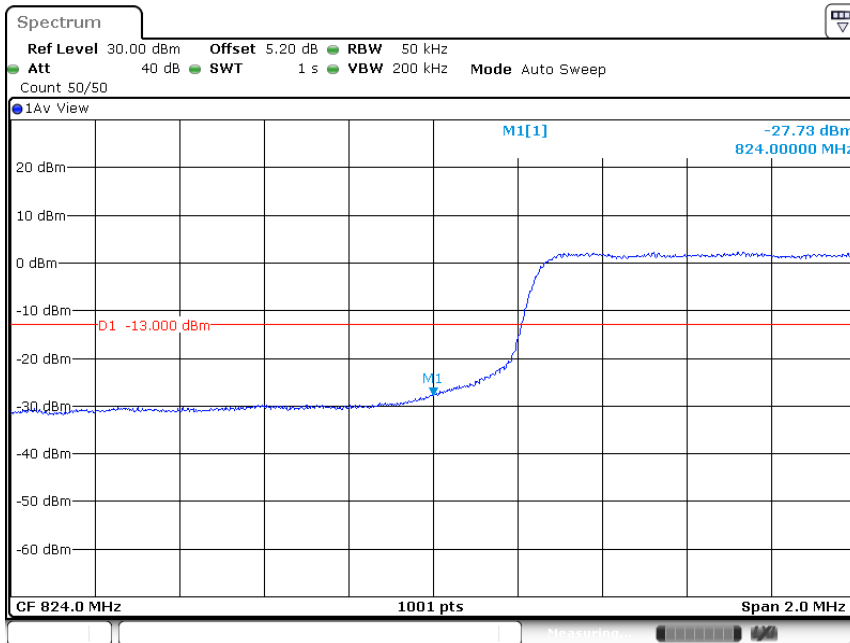
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**Band5-5MHz-16QAM-20425-1RB#0**



Date: 18 NOV 2020 11:43:22

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



Date: 18 NOV 2020 11:44:40

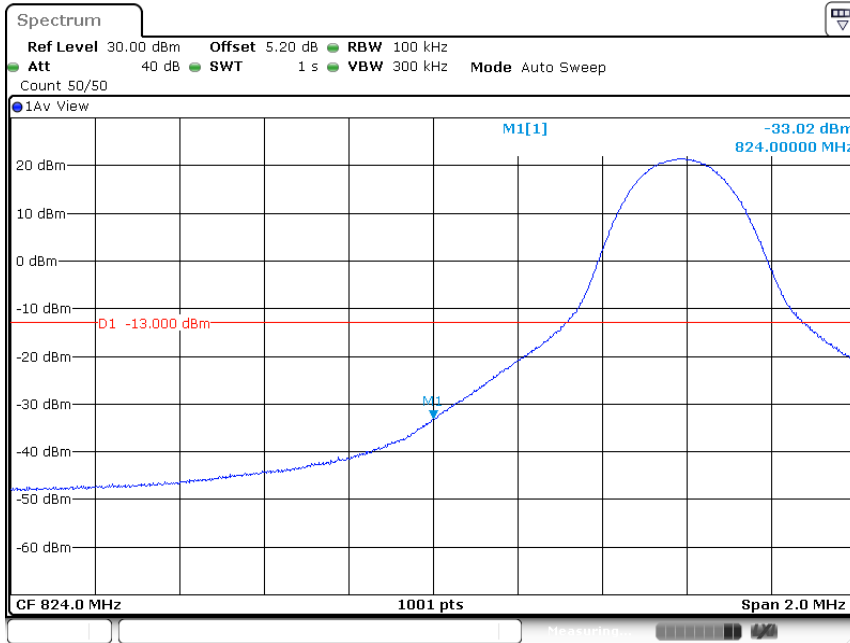


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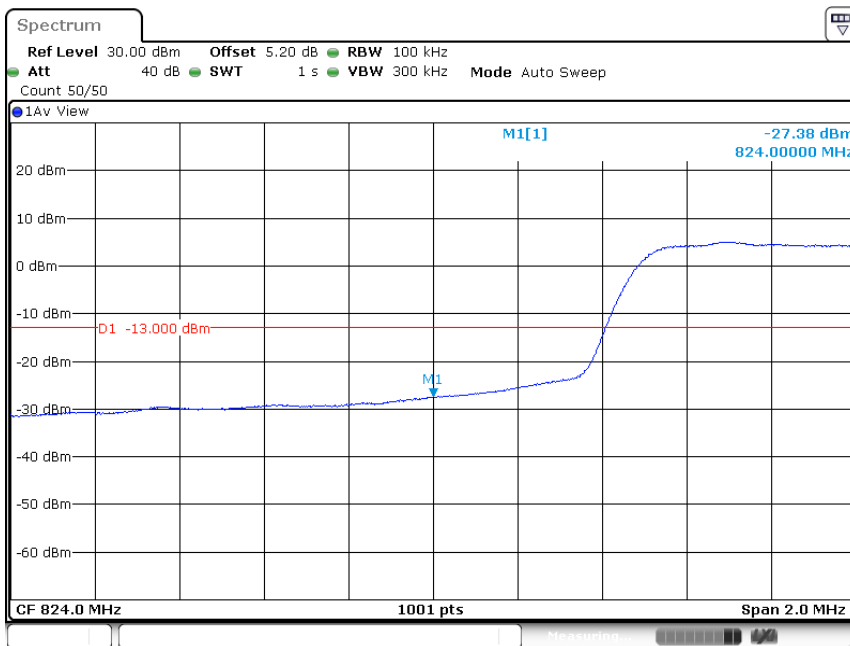


**Band5-10MHz-QPSK-20450-1RB#0**



Date: 17 NOV 2020 20:38:54

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



Date: 17 NOV 2020 20:40:12

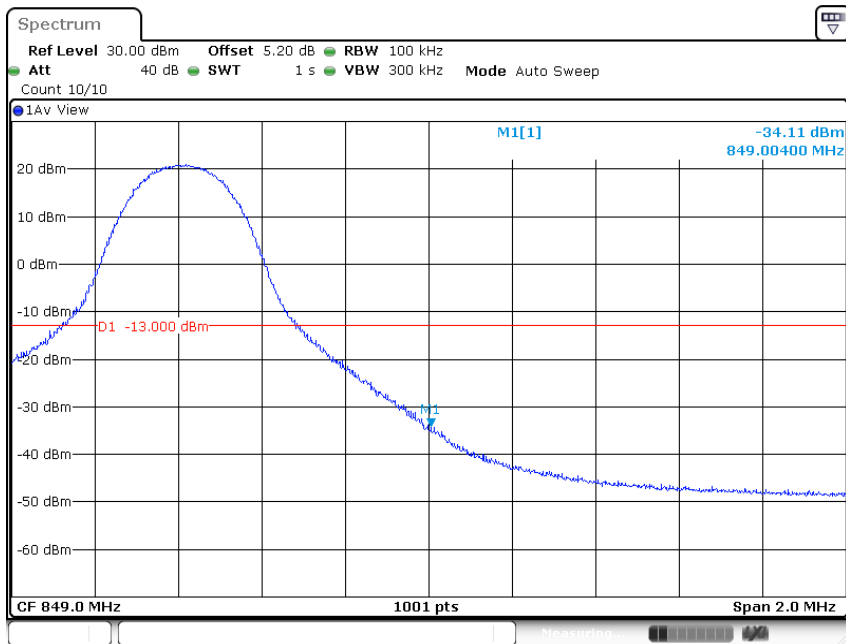


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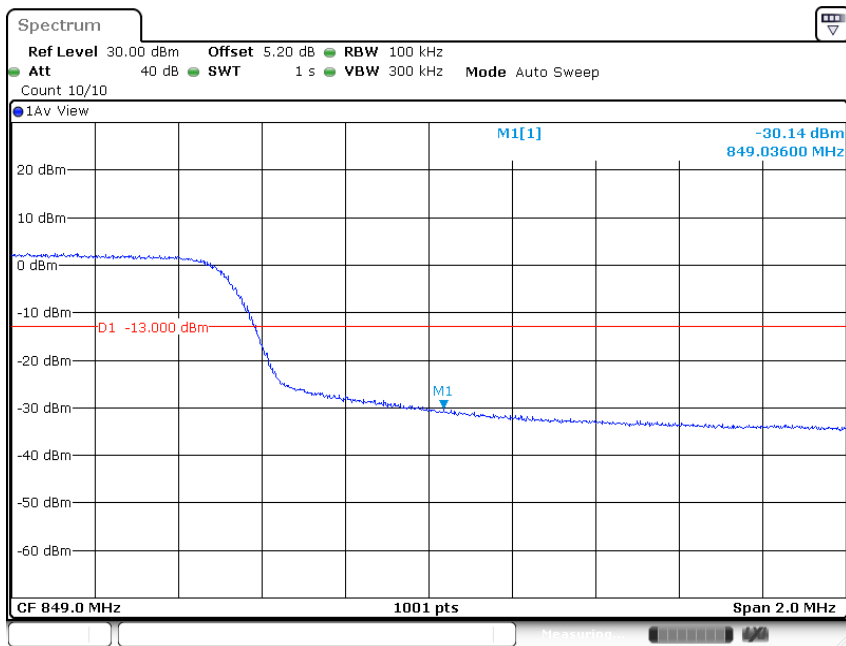


**Band5-10MHz-QPSK-20600-1RB#49**



Date: 23 NOV 2020 20:53:12

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

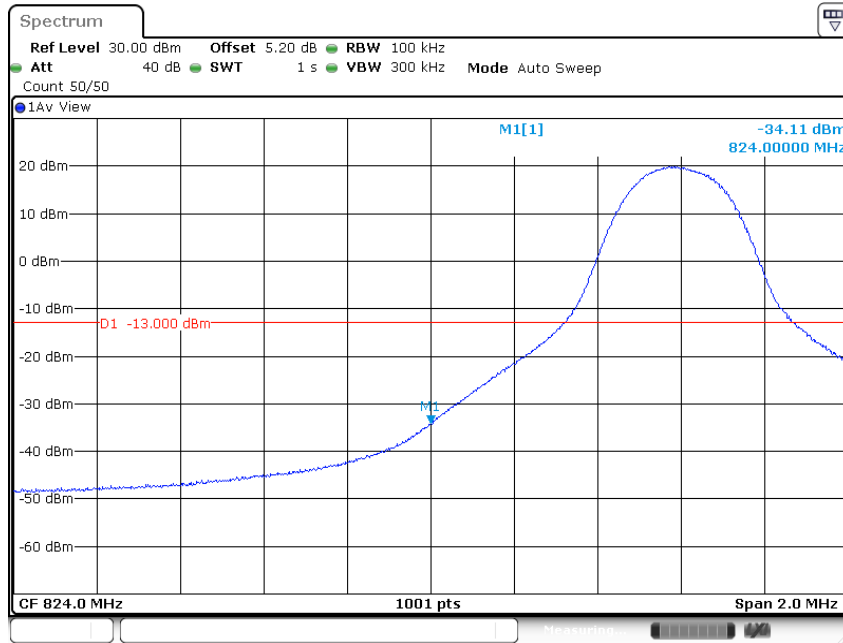


Date: 23 NOV 2020 20:53:32



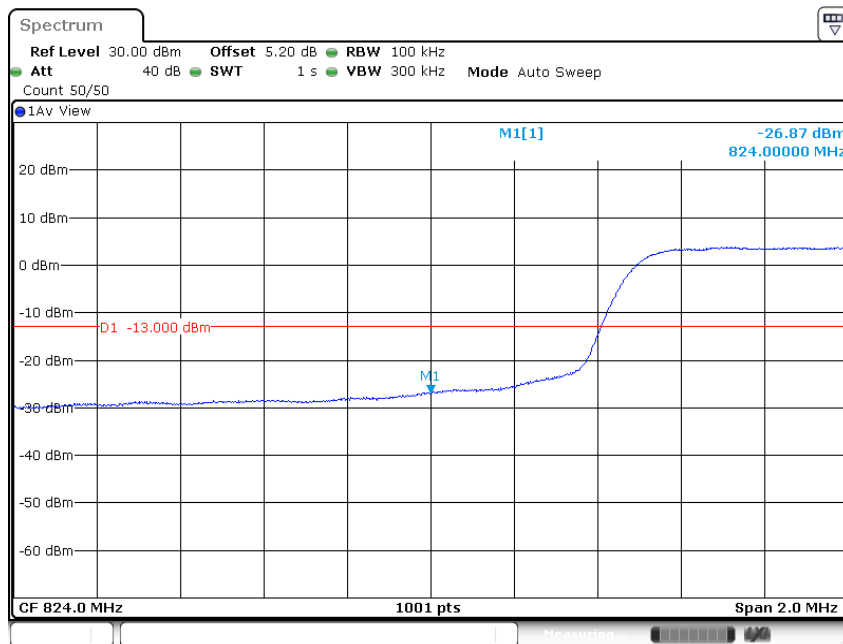
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**Band5-10MHz-16QAM-20450-1RB#0**



Date: 18 NOV 2020 11:48:51

**Band5-10MHz-16QAM-20450-27RB#0**

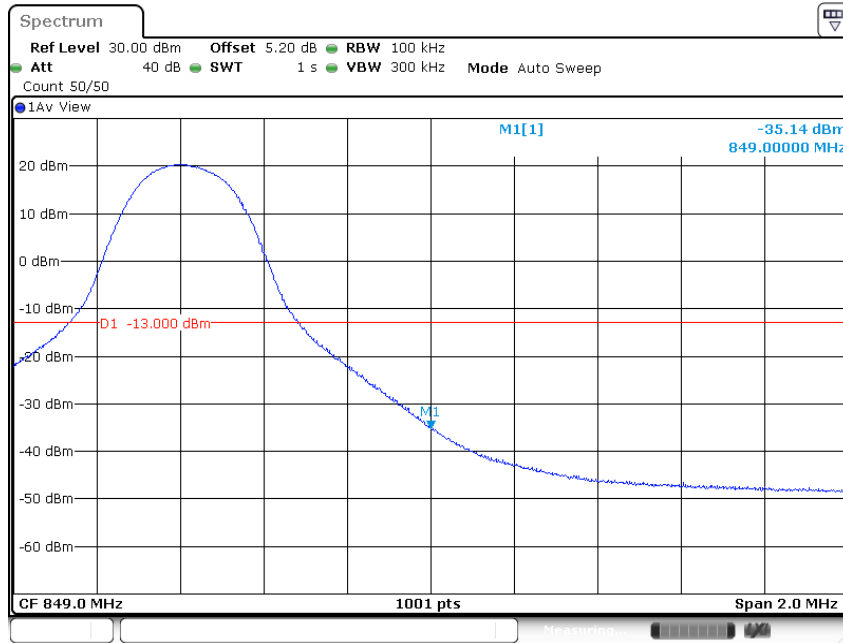


Date: 18 NOV 2020 11:50:09



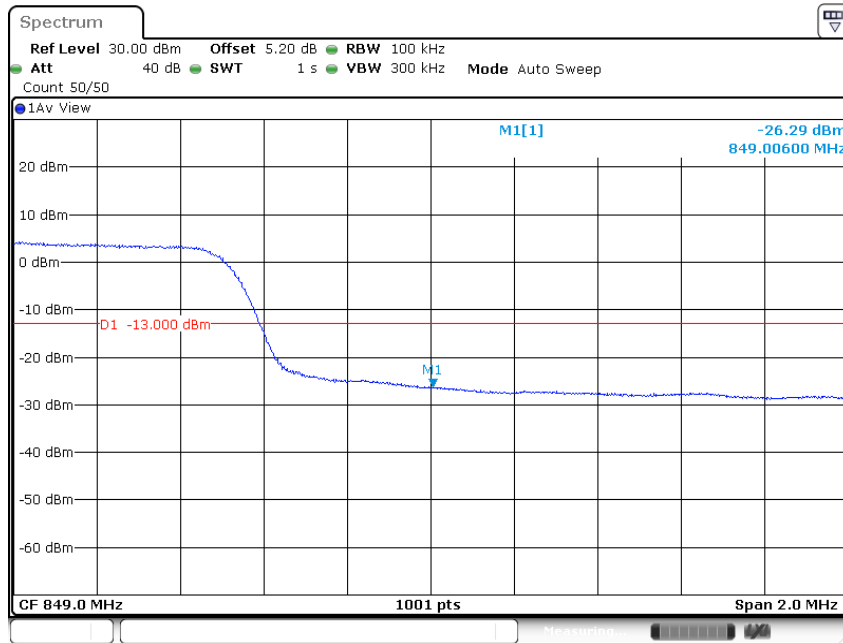
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**Band5-10MHz-16QAM-20600-1RB#49**



Date: 18 NOV 2020 11:51:35

**Band5-10MHz-16QAM-20600-27RB#23**



Date: 18 NOV 2020 11:52:53



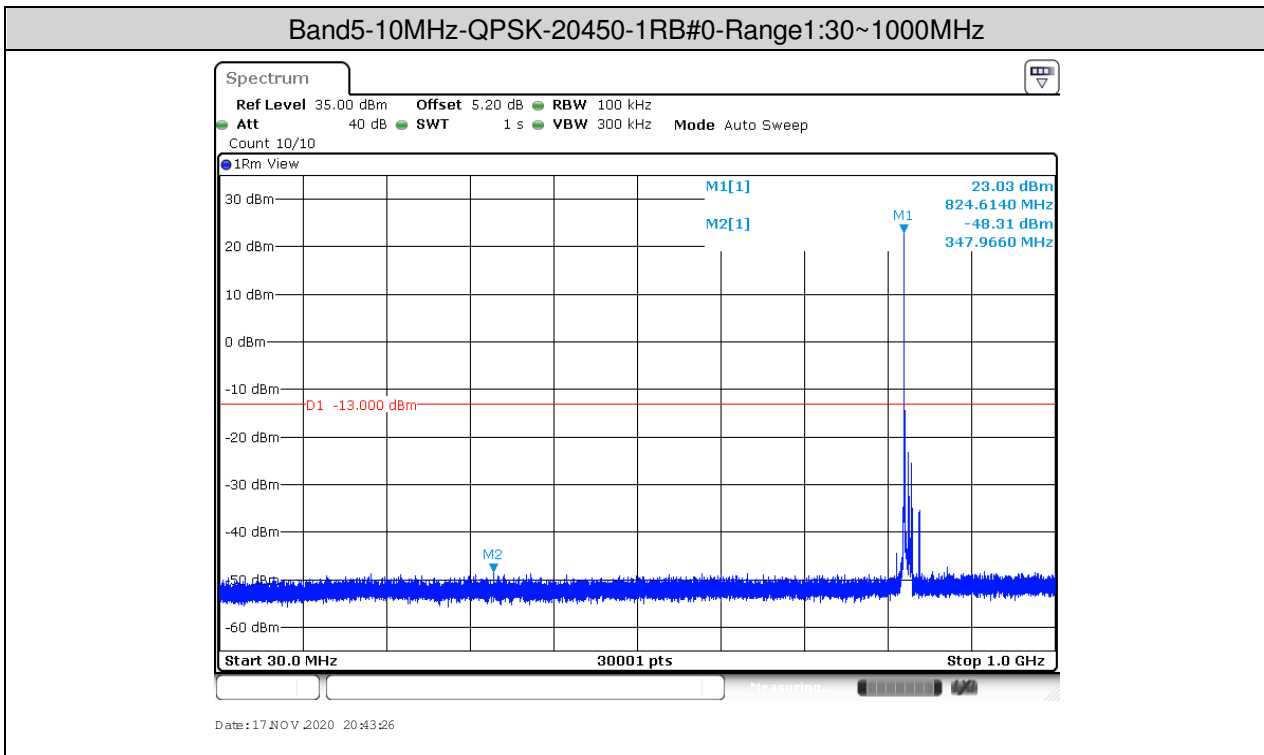
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## 6 Spurious Emission at Antenna Terminal

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.

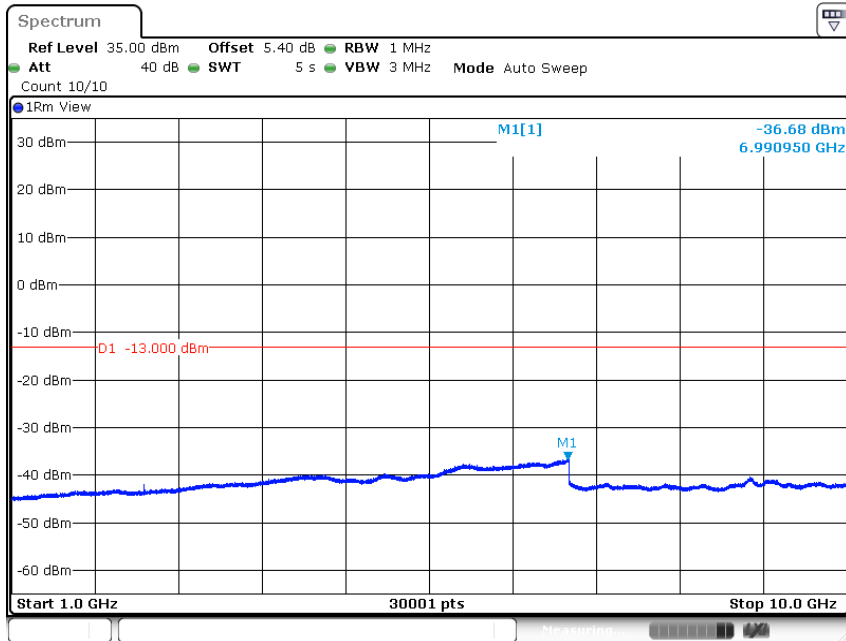
Remark2: only the worst case data displayed in this report.

### 6.1 Test Plots



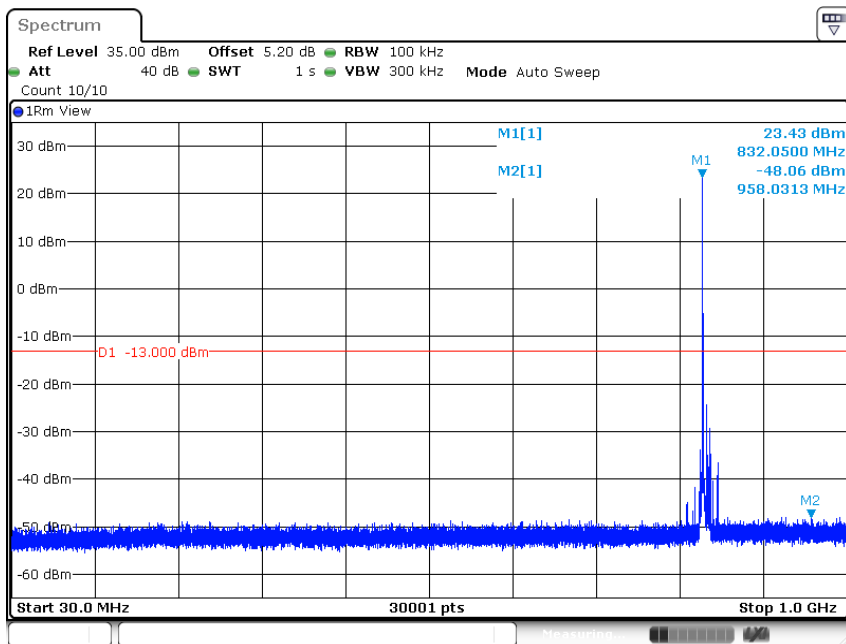
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**Band5-10MHz-QPSK-20450-1RB#0-Range2:1000~10000MHz**



Date: 17 NOV 2020 20:44:37

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



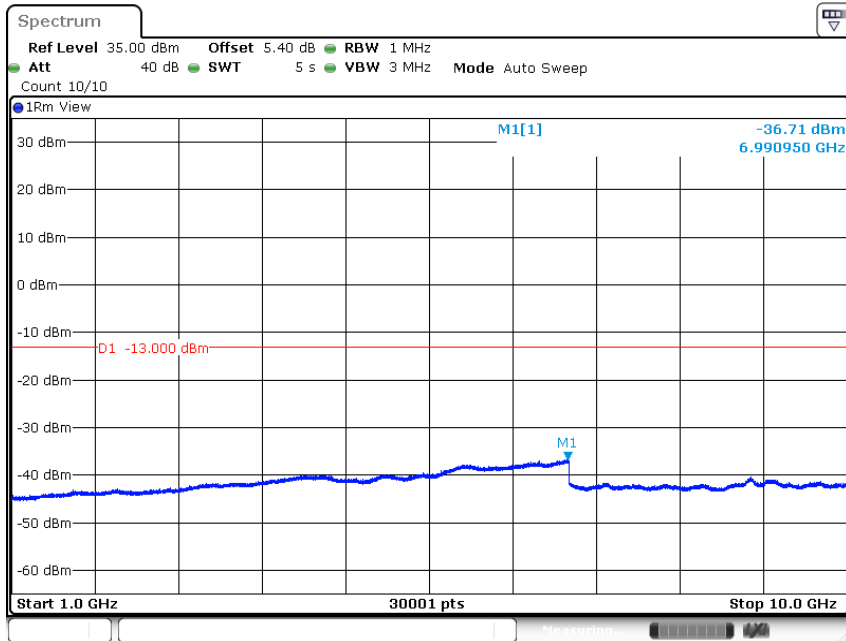
Date: 17 NOV 2020 20:45:02



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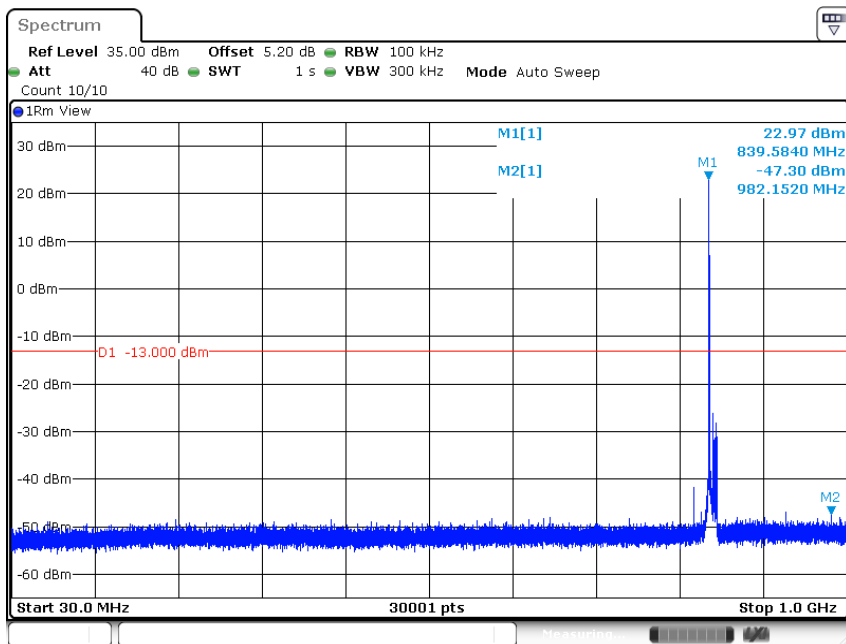
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**Band5-10MHz-QPSK-20525-1RB#0-Range2:1000~10000MHz**



Date: 17 NOV 2020 20:46:13

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



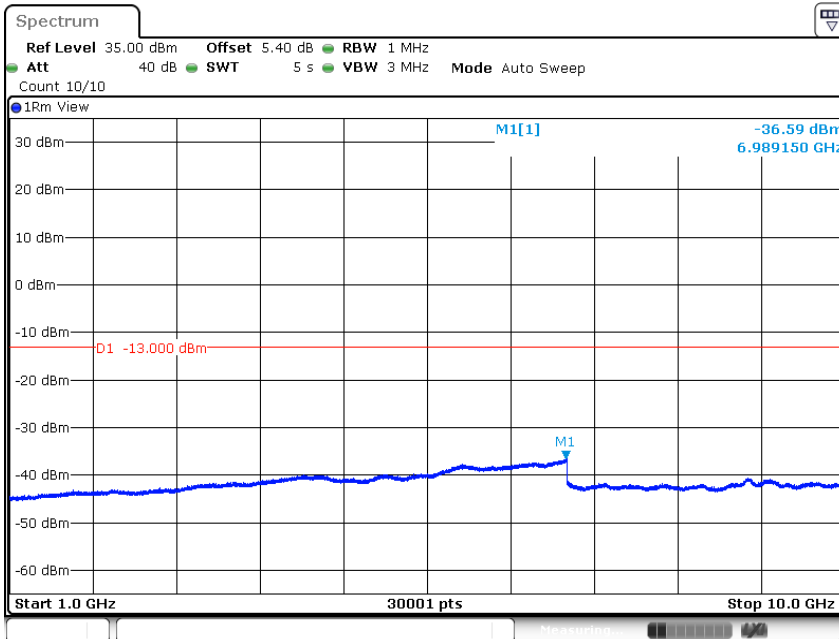
Date: 17 NOV 2020 20:46:39



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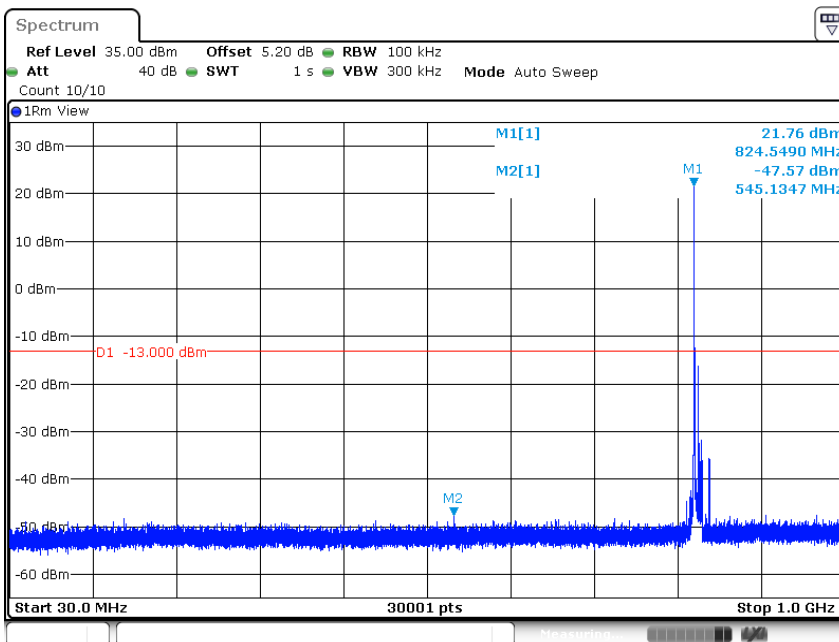
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**Band5-10MHz-QPSK-20600-1RB#0-Range2:1000~10000MHz**



Date: 17 NOV 2020 20:47:50

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

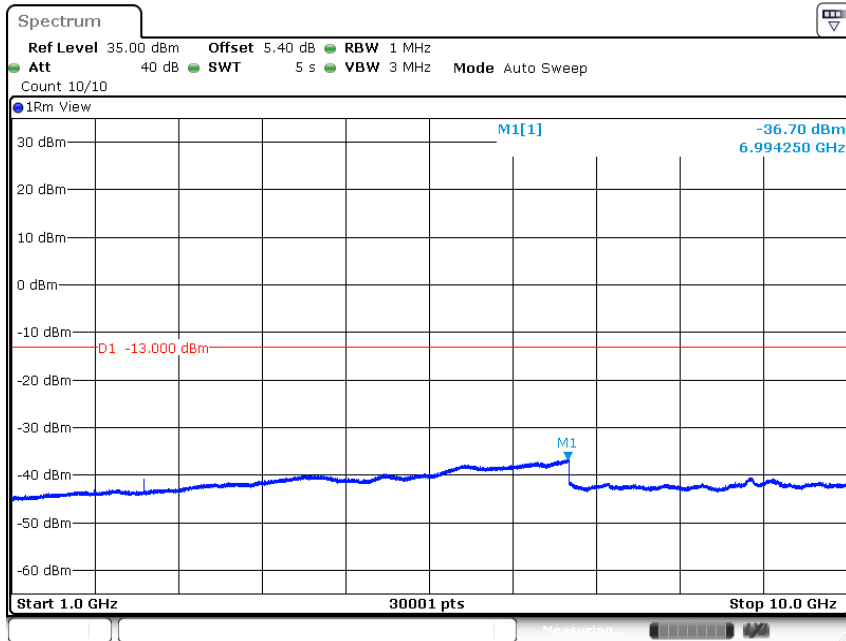


Date: 18 NOV 2020 11:59:33



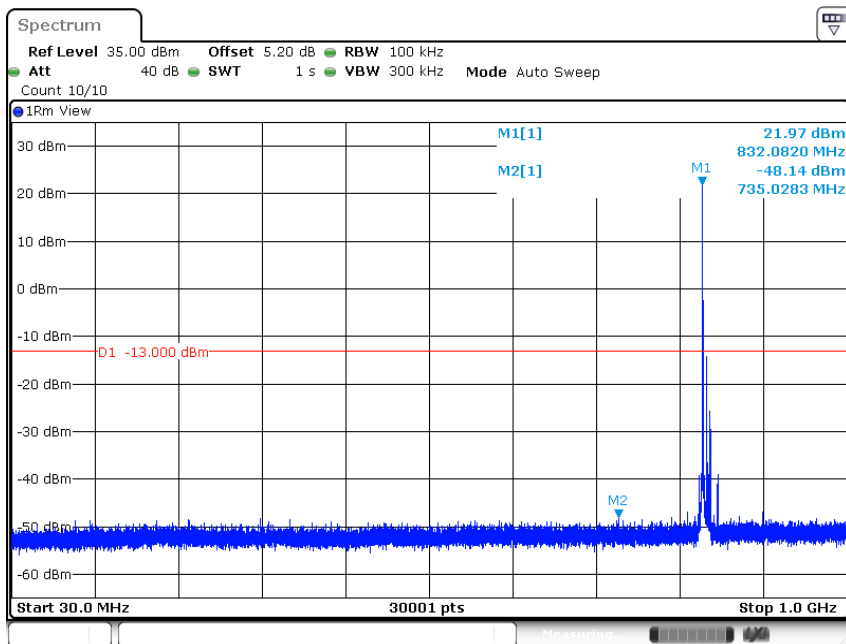
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**Band5-10MHz-16QAM-20450-1RB#0-Range2:1000~10000MHz**



Date: 18 NOV 2020 12:00:44

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



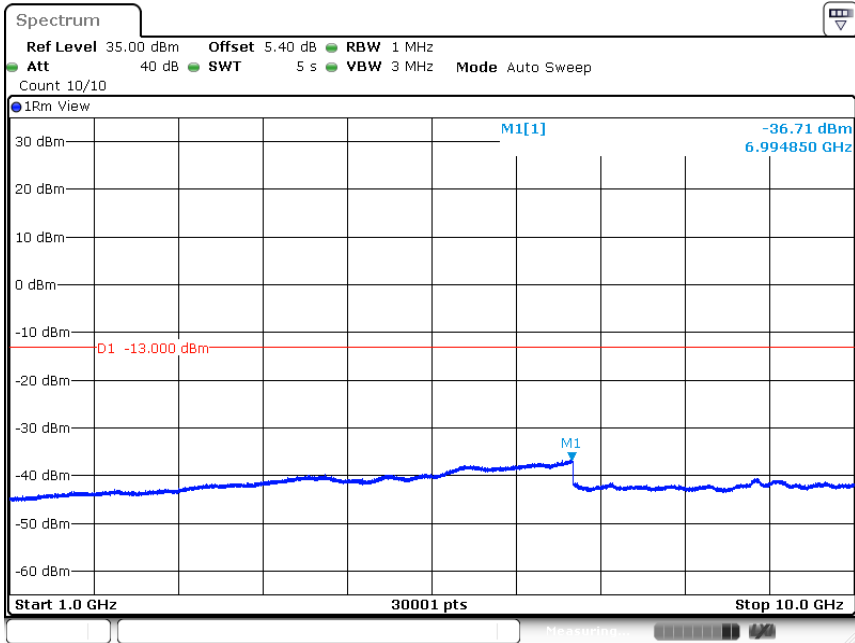
Date: 18 NOV 2020 12:01:09



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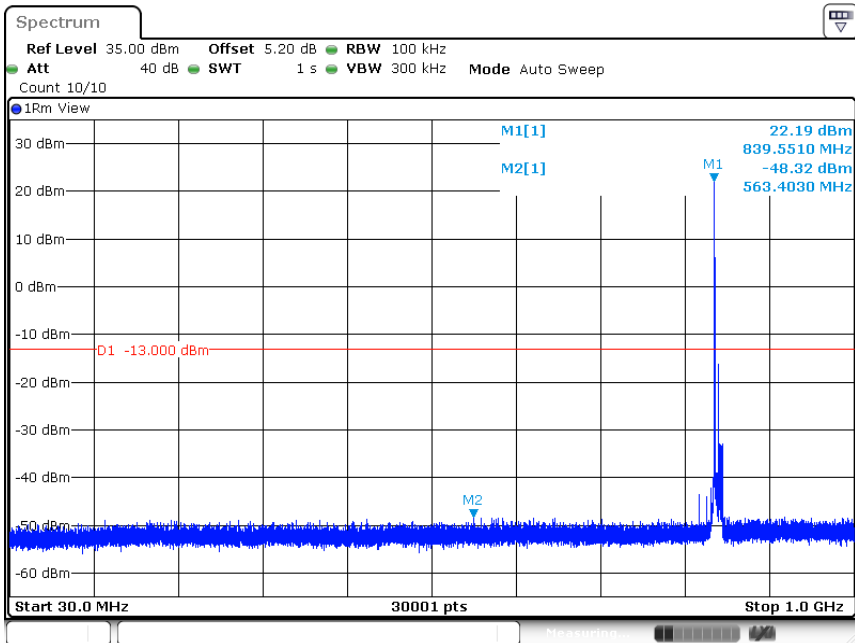


**Band5-10MHz-16QAM-20525-1RB#0-Range2:1000~10000MHz**



Date: 18 NOV .2020 12:02:20

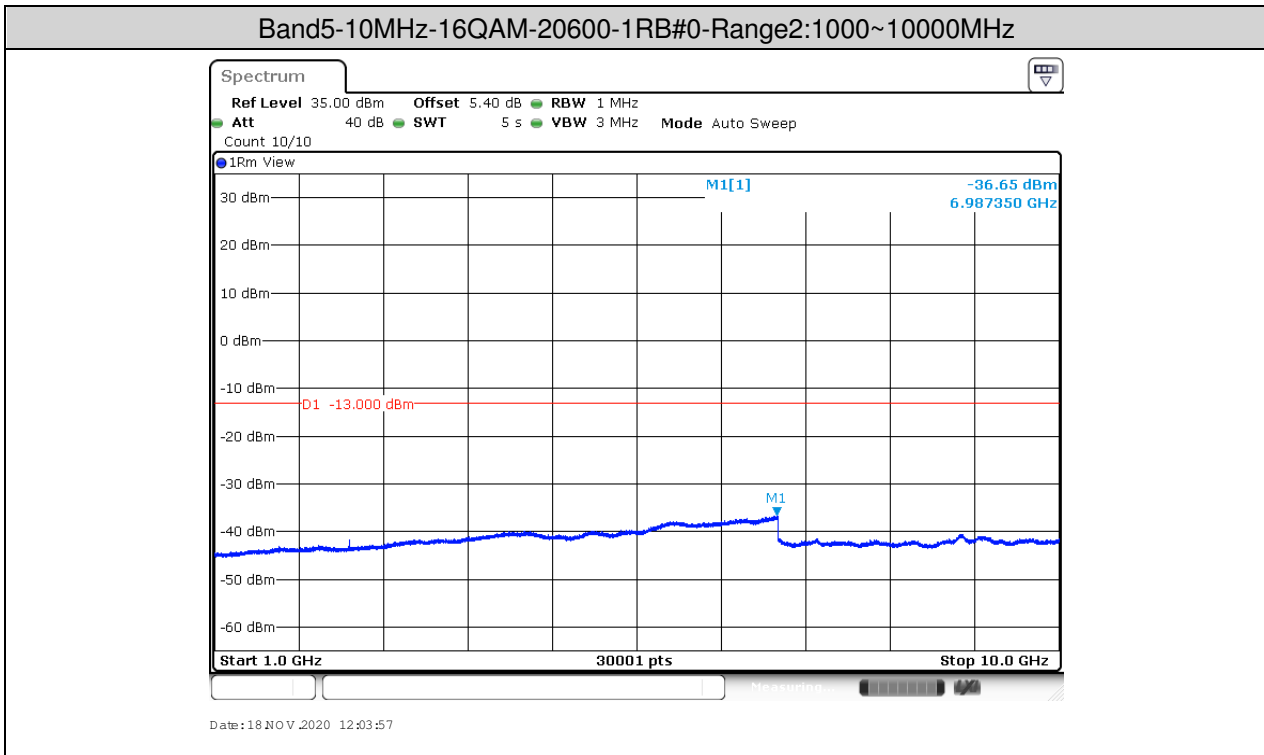
**Band5-10MHz-16QAM-20600-1RB#0-Range1:30~1000MHz**



Date: 18 NOV .2020 12:02:46



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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
52.5051	-57.23	-13.00	44.23	Vertical
119.0505	-58.65	-13.00	45.65	Vertical
339.1545	-66.08	-13.00	53.08	Vertical
1669.7339	-64.22	-13.00	51.22	Vertical
2473.4947	-51.07	-13.00	38.07	Vertical
9300.9100	-52.65	-13.00	39.65	Vertical
46.7818	-57.14	-13.00	44.14	Horizontal
118.9534	-67.35	-13.00	54.35	Horizontal
238.1239	-63.65	-13.00	50.65	Horizontal
1648.9298	-56.84	-13.00	43.84	Horizontal
2473.8948	-47.45	-13.00	34.45	Horizontal
9338.2446	-52.78	-13.00	39.78	Horizontal

#### 7.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
30.3880	-64.01	-13.00	51.01	Vertical
118.8564	-57.43	-13.00	44.43	Vertical
376.5983	-65.51	-13.00	52.51	Vertical
1664.1328	-63.20	-13.00	50.20	Vertical
2496.2993	-51.78	-13.00	38.78	Vertical
9549.1850	-52.46	-13.00	39.46	Vertical
46.7818	-58.32	-13.00	45.32	Horizontal
120.9906	-65.49	-13.00	52.49	Horizontal
245.2538	-64.17	-13.00	51.17	Horizontal
1664.1328	-61.21	-13.00	48.21	Horizontal
2496.2993	-46.82	-13.00	33.82	Horizontal
9310.2437	-52.63	-13.00	39.63	Horizontal



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### 7.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
30.4365	-63.23	-13.00	50.23	Vertical
117.3529	-60.31	-13.00	47.31	Vertical
386.3473	-64.47	-13.00	51.47	Vertical
1678.9358	-62.79	-13.00	49.79	Vertical
2518.7037	-52.77	-13.00	39.77	Vertical
9894.9965	-52.22	-13.00	39.22	Vertical
44.9872	-57.74	-13.00	44.74	Horizontal
120.8935	-66.53	-13.00	53.53	Horizontal
243.3137	-64.10	-13.00	51.10	Horizontal
1678.9358	-58.27	-13.00	45.27	Horizontal
2519.1038	-48.43	-13.00	35.43	Horizontal
9287.8429	-52.55	-13.00	39.55	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					
					Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	VL	NT	-0.50	-0.000603	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	-1.40	-0.001689	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	-0.80	-0.000965	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	0.50	0.000598	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-0.50	-0.000598	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-0.60	-0.000717	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	-1.10	-0.001303	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	-1.10	-0.001303	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	-0.90	-0.001066	±2.5	PASS
Band5	10MHz	16QAM	20450	27RB#0	VL	NT	-0.10	-0.000121	±2.5	PASS
Band5	10MHz	16QAM	20450	27RB#0	VN	NT	-0.70	-0.000844	±2.5	PASS
Band5	10MHz	16QAM	20450	27RB#0	VH	NT	0.60	0.000724	±2.5	PASS
Band5	10MHz	16QAM	20525	27RB#0	VL	NT	-1.40	-0.001674	±2.5	PASS
Band5	10MHz	16QAM	20525	27RB#0	VN	NT	-1.20	-0.001435	±2.5	PASS
Band5	10MHz	16QAM	20525	27RB#0	VH	NT	-1.30	-0.001554	±2.5	PASS
Band5	10MHz	16QAM	20600	27RB#0	VL	NT	-0.90	-0.001066	±2.5	PASS
Band5	10MHz	16QAM	20600	27RB#0	VN	NT	-0.50	-0.000592	±2.5	PASS
Band5	10MHz	16QAM	20600	27RB#0	VH	NT	-1.10	-0.001303	±2.5	PASS

### 8.2 Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Temperature					
					Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	NV	-30	-1.60	-0.001930	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	-0.50	-0.000603	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-10	-2.00	-0.002413	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	-0.30	-0.000362	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	-0.10	-0.000121	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	-0.90	-0.001086	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	-0.70	-0.000844	±2.5	PASS



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Band5	10MHz	QPSK	20450	50RB#0	NV	40	-0.60	-0.000724	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	-1.70	-0.002051	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	0.00	0.000000	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	0.20	0.000239	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	-1.50	-0.001793	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-0.60	-0.000717	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	0.30	0.000359	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-0.10	-0.000120	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-0.10	-0.000120	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-0.90	-0.001076	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-0.60	-0.000717	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	-0.20	-0.000237	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	0.30	0.000355	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-10	-1.20	-0.001422	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	-0.80	-0.000948	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	-0.40	-0.000474	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	-0.90	-0.001066	±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	-1.80	-0.002133	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	-1.00	-0.001185	±2.5	PASS
Band5	10MHz	16QAM	20450	27RB#0	NV	-30	-0.80	-0.000965	±2.5	PASS
Band5	10MHz	16QAM	20450	27RB#0	NV	-20	0.90	0.001086	±2.5	PASS
Band5	10MHz	16QAM	20450	27RB#0	NV	-10	-0.10	-0.000121	±2.5	PASS
Band5	10MHz	16QAM	20450	27RB#0	NV	0	-0.60	-0.000724	±2.5	PASS
Band5	10MHz	16QAM	20450	27RB#0	NV	10	0.70	0.000844	±2.5	PASS
Band5	10MHz	16QAM	20450	27RB#0	NV	20	-0.20	-0.000241	±2.5	PASS
Band5	10MHz	16QAM	20450	27RB#0	NV	30	1.00	0.001206	±2.5	PASS
Band5	10MHz	16QAM	20450	27RB#0	NV	40	0.20	0.000241	±2.5	PASS
Band5	10MHz	16QAM	20450	27RB#0	NV	50	-0.70	-0.000844	±2.5	PASS
Band5	10MHz	16QAM	20525	27RB#0	NV	-30	0.40	0.000478	±2.5	PASS
Band5	10MHz	16QAM	20525	27RB#0	NV	-20	-0.60	-0.000717	±2.5	PASS
Band5	10MHz	16QAM	20525	27RB#0	NV	-10	-2.00	-0.002391	±2.5	PASS
Band5	10MHz	16QAM	20525	27RB#0	NV	0	-0.80	-0.000956	±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	-1.30	-0.001554	±2.5	PASS
Band5	10MHz	16QAM	20525	27RB#0	NV	30	-1.50	-0.001793	±2.5	PASS
Band5	10MHz	16QAM	20525	27RB#0	NV	40	0.20	0.000239	±2.5	PASS



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Band5	10MHz	16QAM	20525	27RB#0	NV	50	-0.50	-0.000598	±2.5	PASS
Band5	10MHz	16QAM	20600	27RB#0	NV	-30	-0.10	-0.000118	±2.5	PASS
Band5	10MHz	16QAM	20600	27RB#0	NV	-20	0.00	0.000000	±2.5	PASS
Band5	10MHz	16QAM	20600	27RB#0	NV	-10	-0.10	-0.000118	±2.5	PASS
Band5	10MHz	16QAM	20600	27RB#0	NV	0	0.80	0.000948	±2.5	PASS
Band5	10MHz	16QAM	20600	27RB#0	NV	10	0.10	0.000118	±2.5	PASS
Band5	10MHz	16QAM	20600	27RB#0	NV	20	-1.60	-0.001896	±2.5	PASS
Band5	10MHz	16QAM	20600	27RB#0	NV	30	-1.40	-0.001659	±2.5	PASS
Band5	10MHz	16QAM	20600	27RB#0	NV	40	1.20	0.001422	±2.5	PASS
Band5	10MHz	16QAM	20600	27RB#0	NV	50	-0.50	-0.000592	±2.5	PASS

The End



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