

# Appendix B

## E-UTRA Band 5



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# 1. Effective (Isotropic) Radiated Power

## 1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.11	17.84	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.24	17.97	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.07	17.80	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.20	17.93	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	23.22	17.95	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.17	17.90	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.28	17.01	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.08	17.81	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.19	17.92	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.07	17.80	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.17	17.90	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	23.22	17.95	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.16	17.89	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.28	17.01	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.10	17.83	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.21	17.94	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.05	17.78	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.14	17.87	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	23.19	17.92	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	23.14	17.87	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.26	16.99	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.35	17.08	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.43	17.16	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.32	17.05	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	22.24	16.97	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	22.35	17.08	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	22.24	16.97	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.27	16.00	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.31	17.04	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.42	17.15	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.23	16.96	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	22.32	17.05	38.45	PASS



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Band5	1.4MHz	16QAM	20525	3RB#1	22.39	17.12	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	22.32	17.05	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.31	16.04	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.28	17.01	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.38	17.11	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.21	16.94	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	22.21	16.94	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	22.25	16.98	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	22.21	16.94	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.25	15.98	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.19	17.92	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.16	17.89	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.16	17.89	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.24	16.97	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#4	22.27	17.00	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#7	22.24	16.97	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.26	16.99	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.19	17.92	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.14	17.87	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.14	17.87	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#0	22.27	17.00	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#4	22.28	17.01	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#7	22.24	16.97	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.28	17.01	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.17	17.90	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.14	17.87	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.13	17.86	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#0	22.23	16.96	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#4	22.26	16.99	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#7	22.23	16.96	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.27	17.00	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.44	17.17	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.39	17.12	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.40	17.13	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#0	21.26	15.99	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#4	21.26	15.99	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.23	15.96	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.19	15.92	38.45	PASS



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Band5	3MHz	16QAM	20525	1RB#0	22.37	17.10	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.48	17.21	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.46	17.19	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#0	21.30	16.03	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#4	21.30	16.03	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#7	21.26	15.99	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.23	15.96	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.33	17.06	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.33	17.06	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.35	17.08	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#0	21.25	15.98	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#4	21.25	15.98	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#7	21.23	15.96	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.17	15.90	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.12	17.85	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.35	18.08	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.06	17.79	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#0	22.19	16.92	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#6	22.30	17.03	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.25	16.98	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.29	17.02	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.08	17.81	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.29	18.02	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.04	17.77	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#0	22.27	17.00	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#6	22.30	17.03	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.21	16.94	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.27	17.00	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.06	17.79	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.33	18.06	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.01	17.74	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.23	16.96	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#6	22.28	17.01	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.25	16.98	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.29	17.02	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.38	17.11	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.43	17.16	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.30	17.03	38.45	PASS



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Band5	5MHz	16QAM	20425	12RB#0	21.19	15.92	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#6	21.29	16.02	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#13	21.28	16.01	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.24	15.97	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.29	17.02	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.59	17.32	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.36	17.09	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#0	21.28	16.01	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#6	21.30	16.03	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#13	21.25	15.98	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.23	15.96	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.24	16.97	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.46	17.19	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.20	16.93	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#0	21.23	15.96	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.31	16.04	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#13	21.28	16.01	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.23	15.96	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.20	17.93	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.30	18.03	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.13	17.86	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.30	17.03	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#12	22.35	17.08	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.34	17.07	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.33	17.06	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.16	17.89	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.26	17.99	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.09	17.82	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.38	17.11	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#12	22.33	17.06	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.24	16.97	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.33	17.06	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.11	17.84	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.25	17.98	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.09	17.82	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.32	17.05	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#12	22.30	17.03	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.36	17.09	38.45	PASS



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Band5	10MHz	QPSK	20600	50RB#0	22.36	17.09	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.32	17.05	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.56	17.29	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.33	17.06	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#0	21.26	15.99	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#12	21.30	16.03	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#25	21.29	16.02	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.27	16.00	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.36	17.09	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.47	17.20	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.26	16.99	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#0	21.36	16.09	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#12	21.28	16.01	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#25	21.21	15.94	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.26	15.99	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.34	17.07	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.45	17.18	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.23	16.96	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#0	21.32	16.05	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#12	21.26	15.99	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#25	21.31	16.04	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.30	16.03	38.45	PASS

Remark:

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

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

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



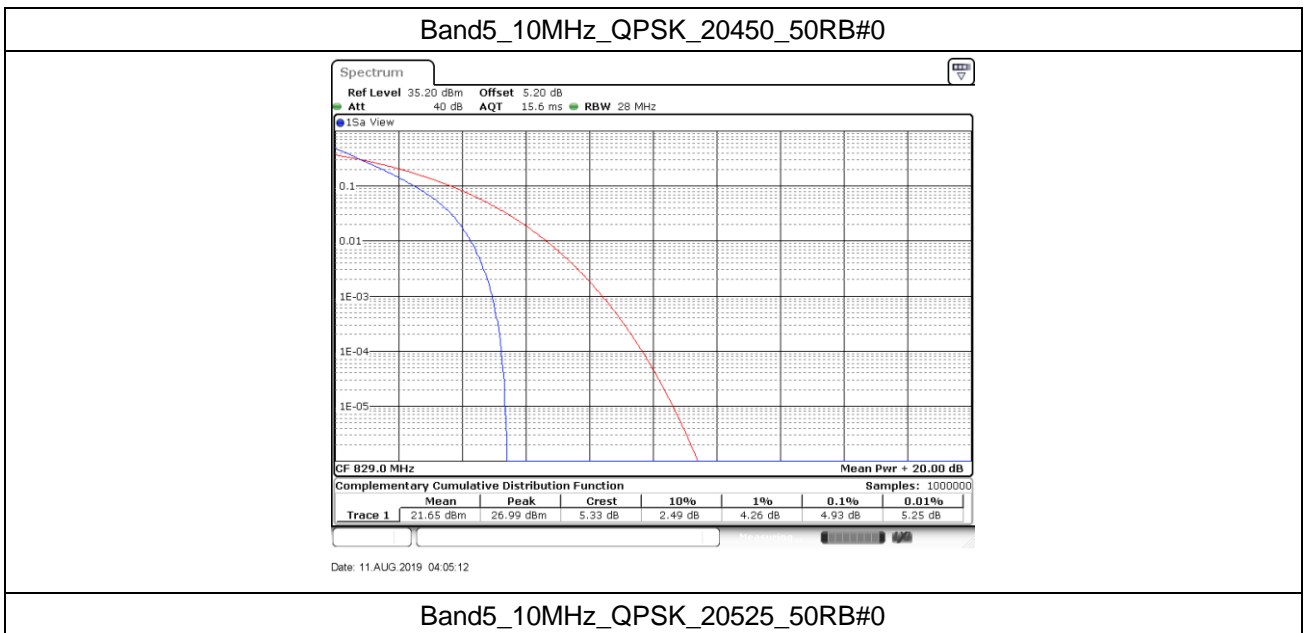
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## 2. Peak-to-Average Ratio (CCDF)

### 2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	4.93	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	4.87	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.04	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.80	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.74	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.83	13	PASS

### 2.2. Test Plots



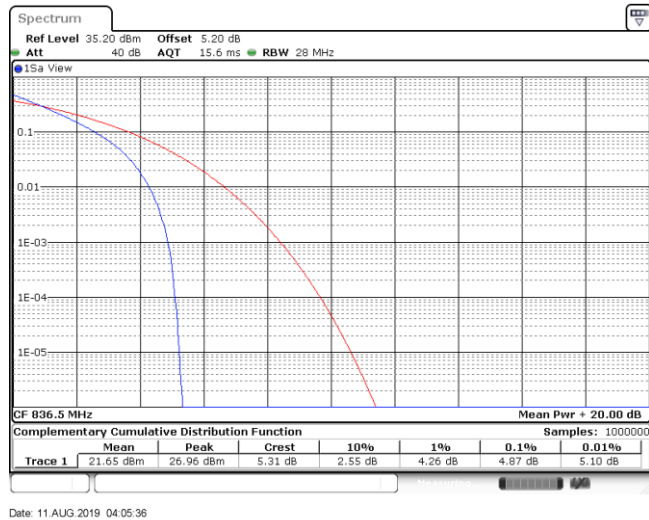
Band5\_10MHz\_QPSK\_20525\_50RB#0



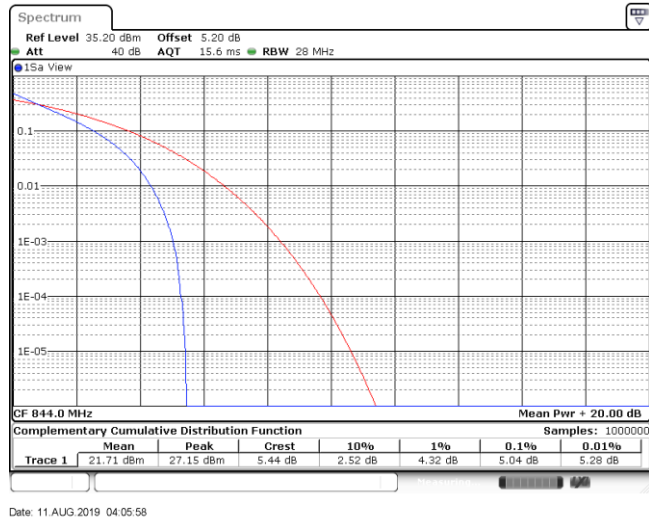
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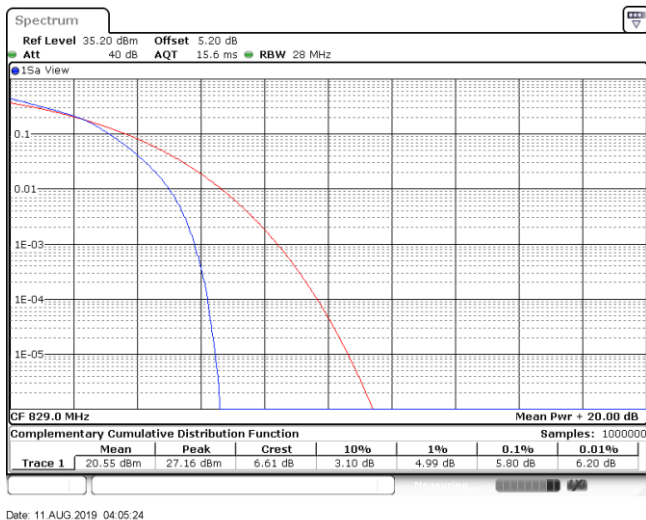
**Band5\_10MHz\_QPSK\_20600\_50RB#0**



**Band5\_10MHz\_16QAM\_20450\_50RB#0**

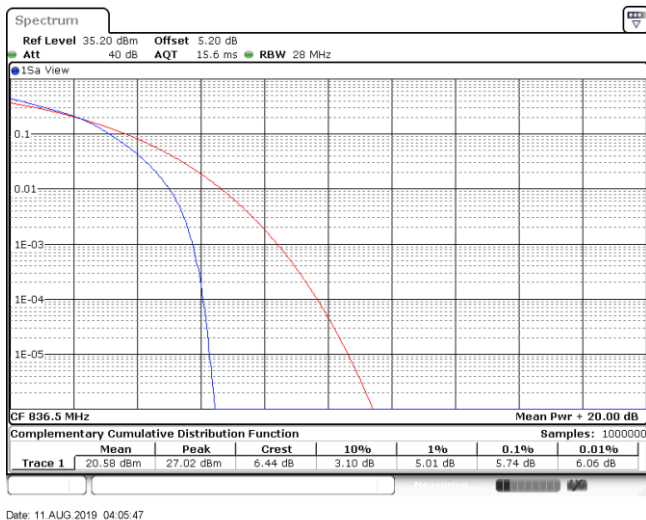


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Date: 11 AUG.2019 04:05:24

**Band5\_10MHz\_16QAM\_20525\_50RB#0**

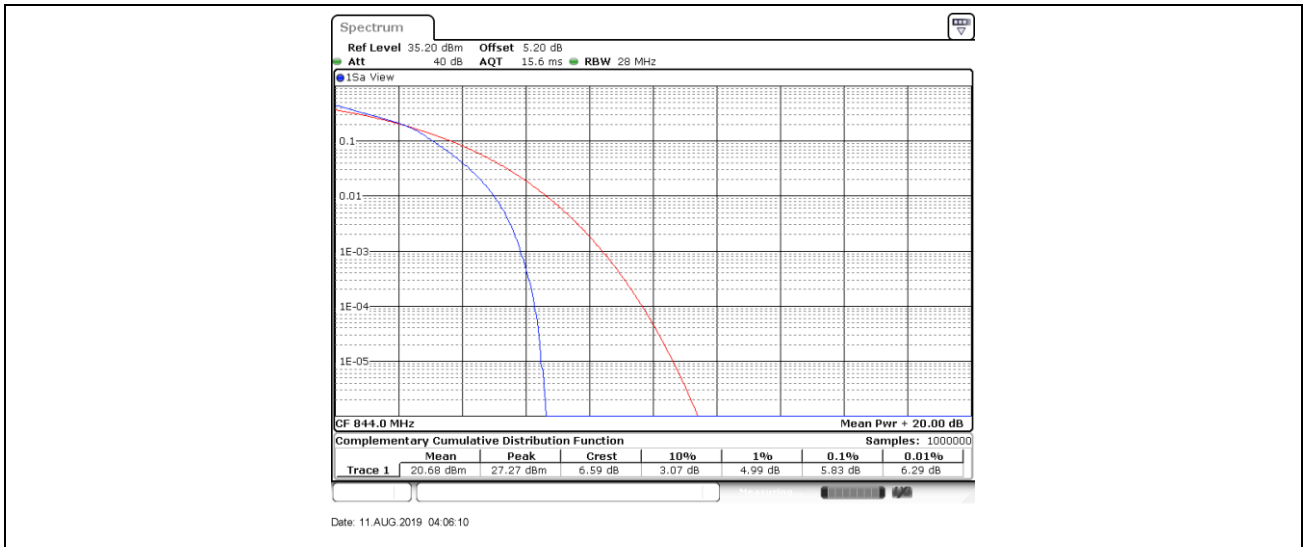


Date: 11 AUG.2019 04:05:47

**Band5\_10MHz\_16QAM\_20600\_50RB#0**



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Date: 11 AUG 2019 04:06:10



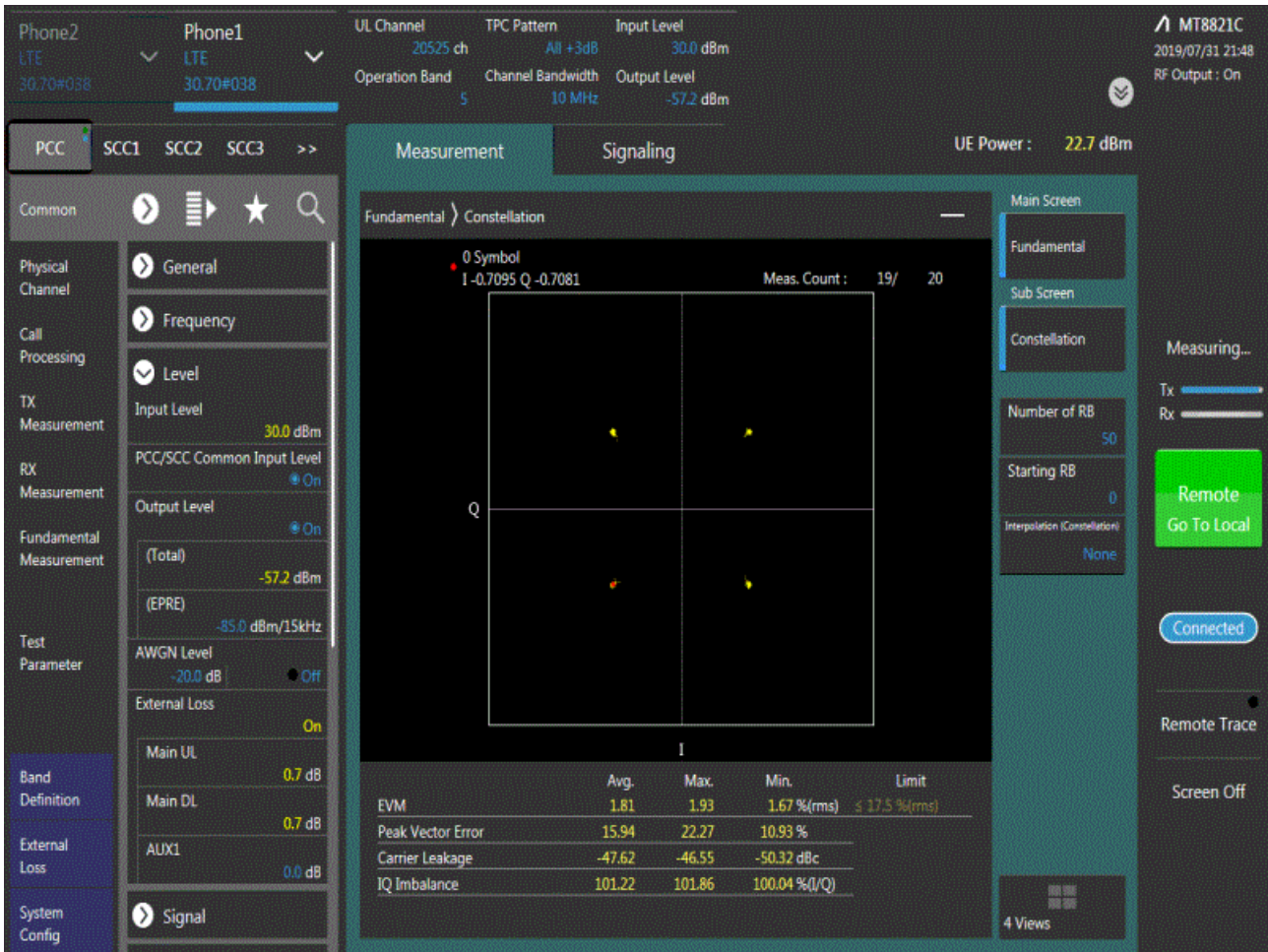
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### 3. Modulation Characteristics

#### 3.1. Test Band = LTE Band 5

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

#### 3.2.1. Test Channel = MCH

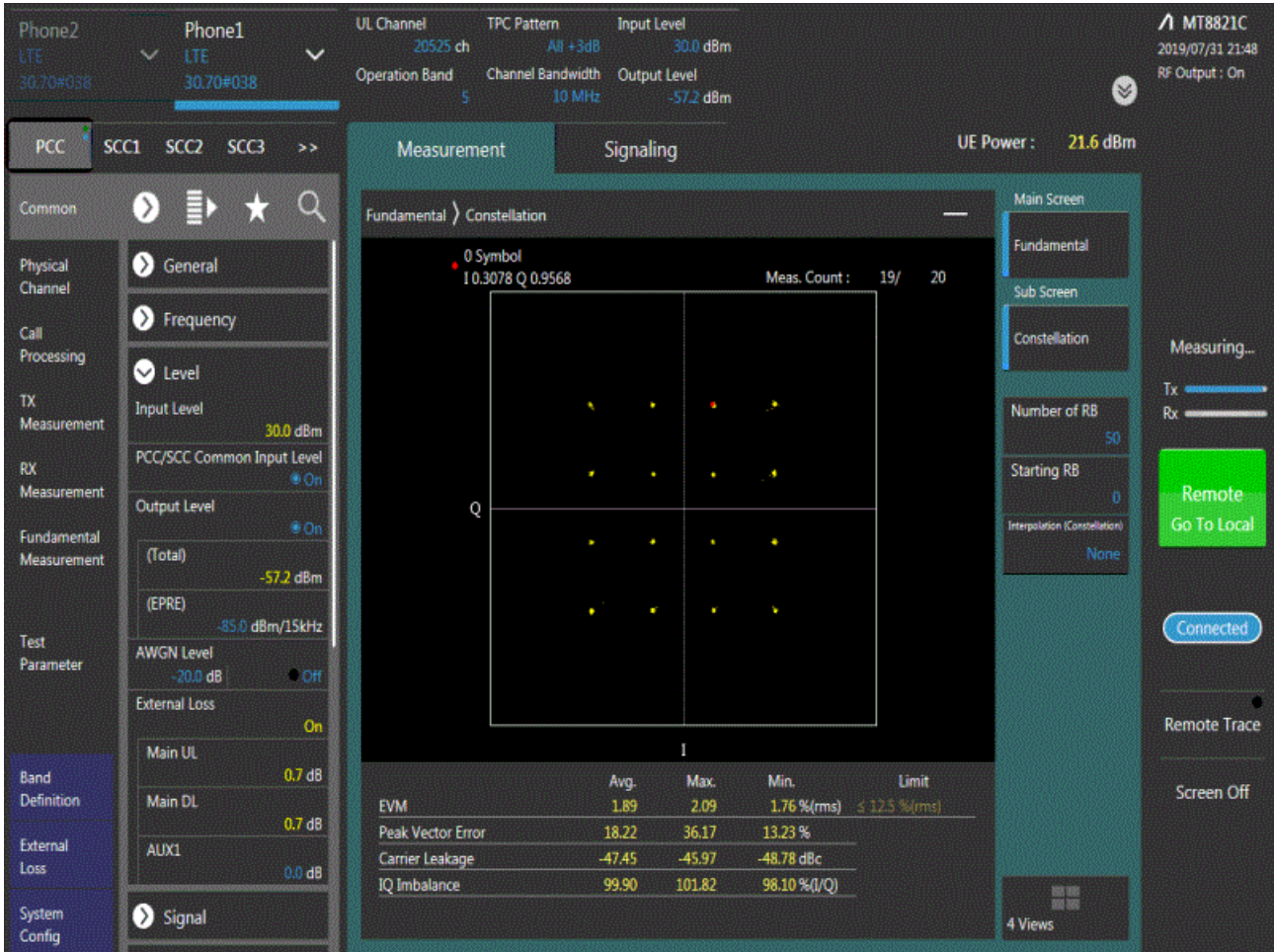


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### 3.3. Test Mode = LTE /TM2 10MHz

#### 3.3.1. Test Channel = MCH



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## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

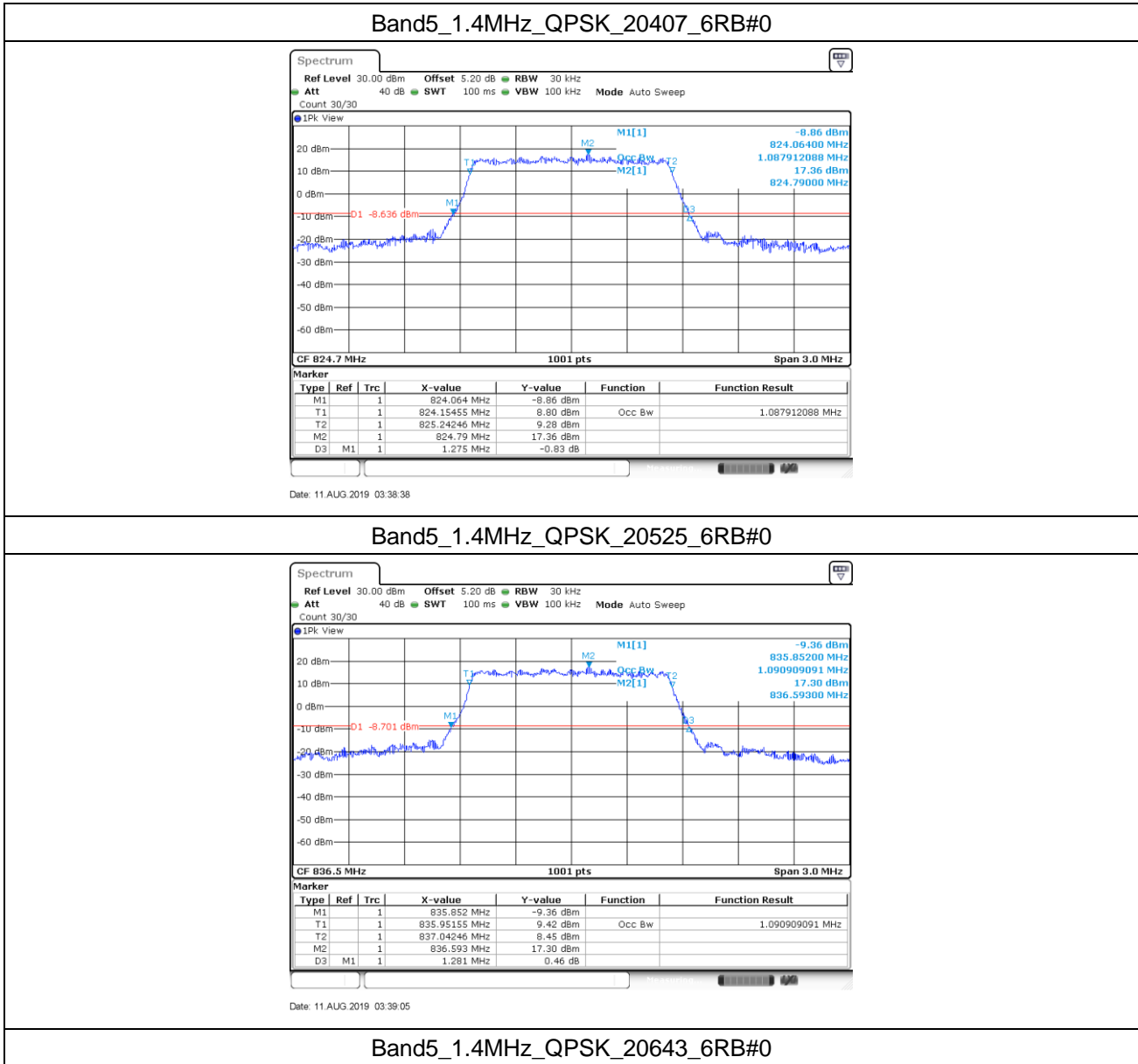
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.088	1.275	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.091	1.281	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.088	1.281	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.091	1.290	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.088	1.299	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.088	1.281	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.691	2.916	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.685	2.922	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.685	2.916	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.679	2.904	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.679	2.910	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.679	2.898	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.486	5.060	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.476	5.060	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.486	5.090	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.476	5.050	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.496	5.040	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.496	5.080	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.931	9.840	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.931	9.760	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.971	9.940	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.931	9.880	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.931	9.800	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.951	9.900	PASS



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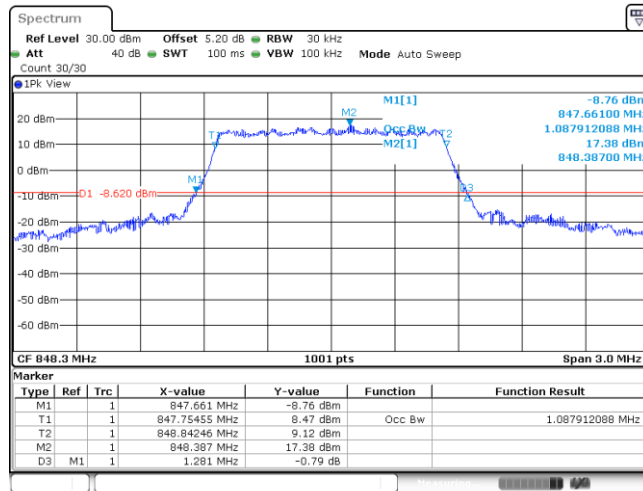
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## 4.2. Test Plots



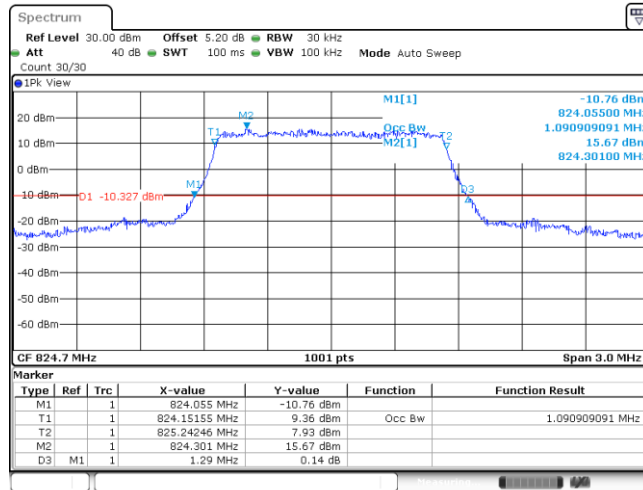
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Date: 11 AUG 2019 03:39:31

**Band5\_1.4MHz\_16QAM\_20407\_6RB#0**



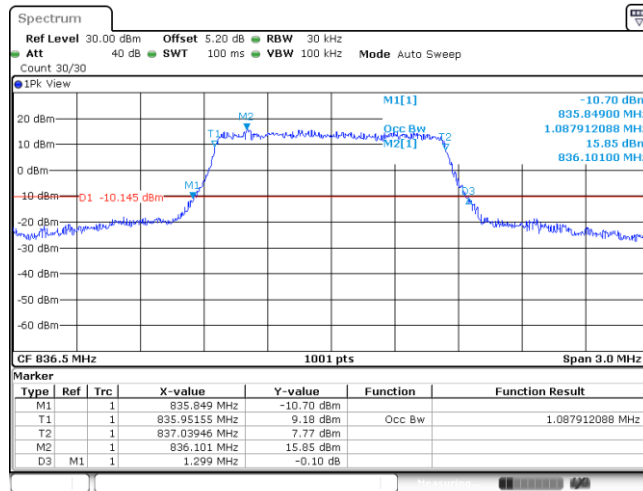
Date: 11 AUG 2019 03:38:51

**Band5\_1.4MHz\_16QAM\_20525\_6RB#0**



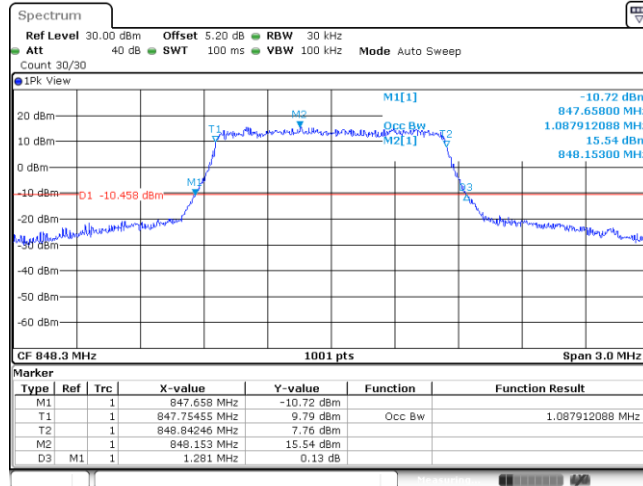
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Date: 11 AUG 2019 03:39:18

**Band5\_1.4MHz\_16QAM\_20643\_6RB#0**

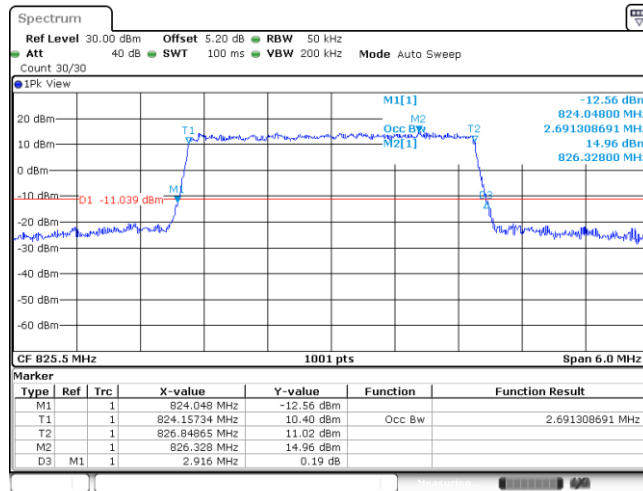


Date: 11 AUG 2019 03:39:44

**Band5\_3MHz\_QPSK\_20415\_15RB#0**

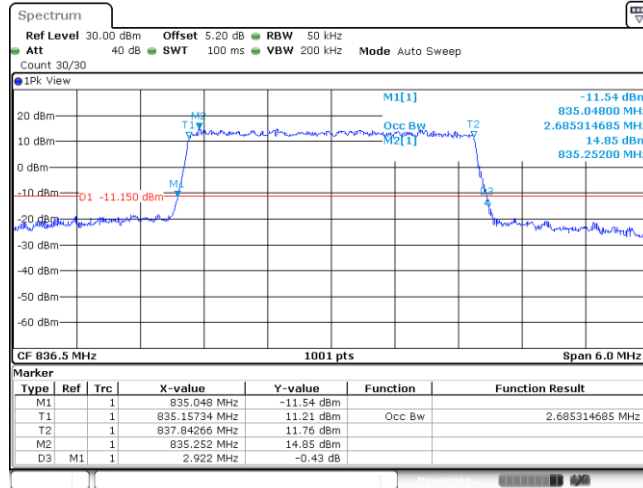


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Date: 11 AUG 2019 03:40:02

**Band5\_3MHz\_QPSK\_20525\_15RB#0**

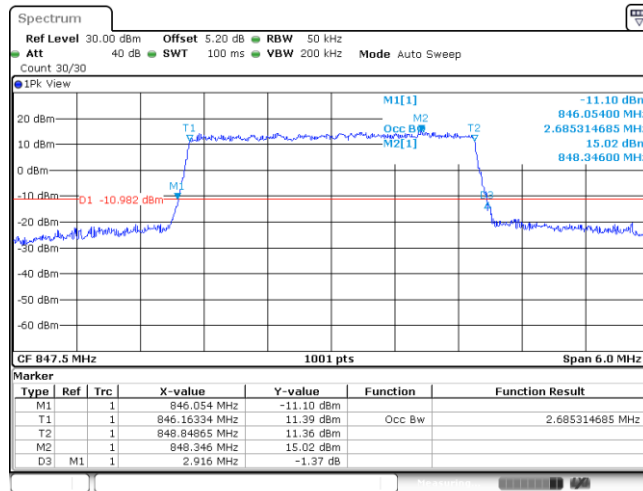


Date: 11 AUG 2019 03:40:28

**Band5\_3MHz\_QPSK\_20635\_15RB#0**

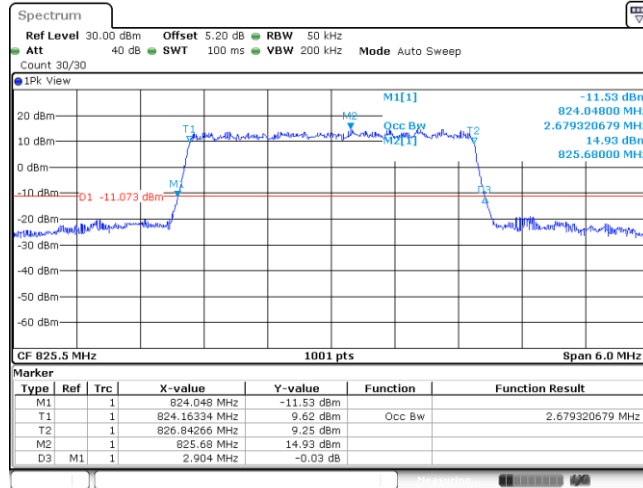


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Date: 11 AUG 2019 03:40:54

**Band5\_3MHz\_16QAM\_20415\_15RB#0**

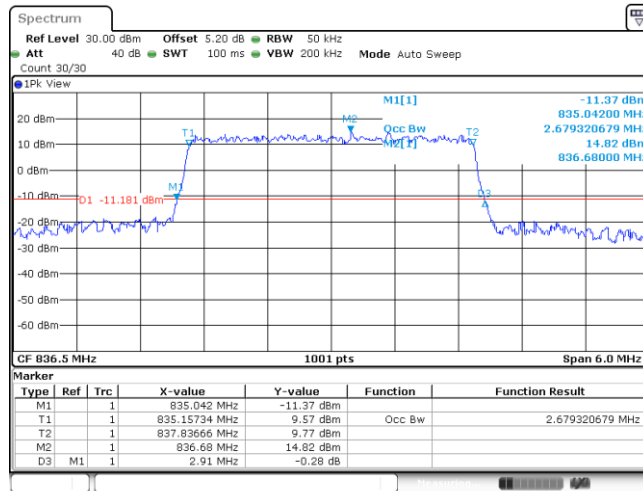


Date: 11 AUG 2019 03:40:14

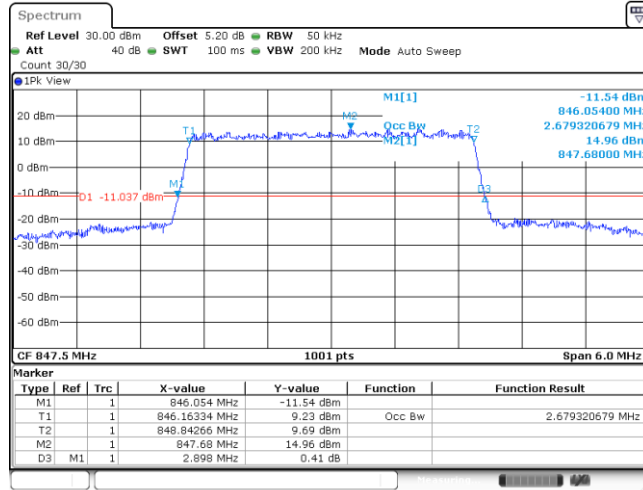
**Band5\_3MHz\_16QAM\_20525\_15RB#0**



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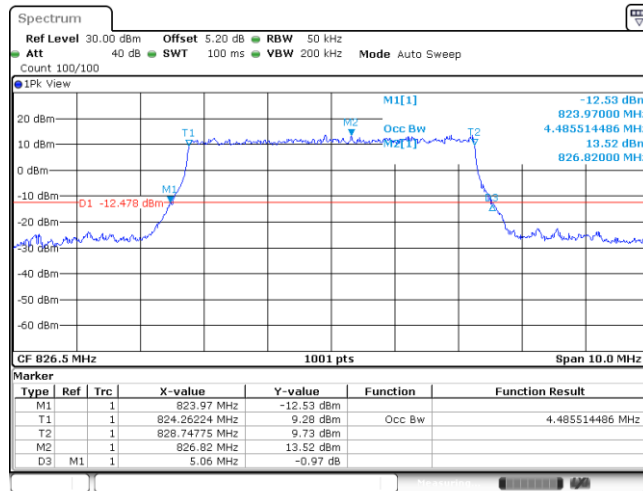
**Band5\_3MHz\_16QAM\_20635\_15RB#0**



**Band5\_5MHz\_QPSK\_20425\_25RB#0**

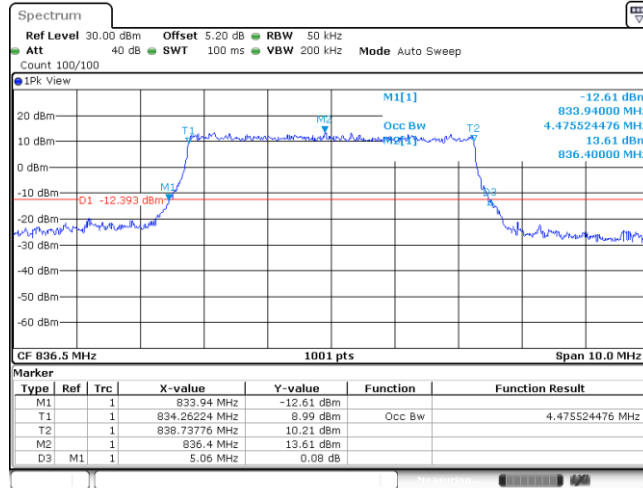


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Date: 11 AUG 2019 03:41:31

**Band5\_5MHz\_QPSK\_20525\_25RB#0**

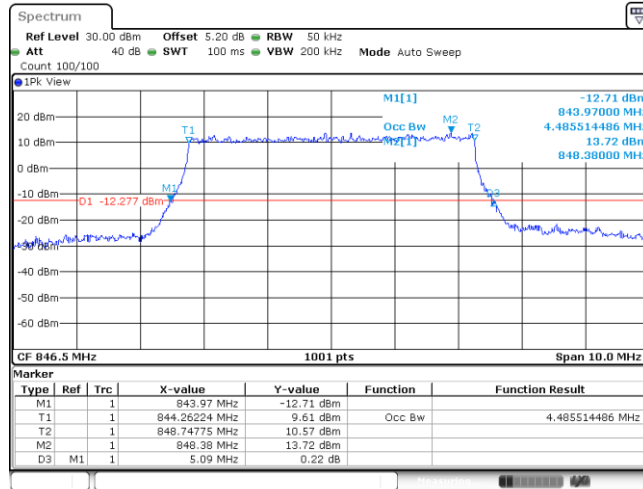


Date: 11 AUG 2019 03:42:12

**Band5\_5MHz\_QPSK\_20625\_25RB#0**

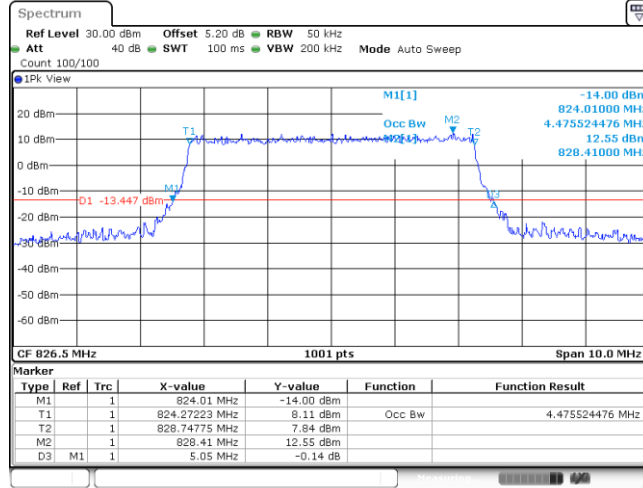


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Date: 11 AUG 2019 03:42:52

**Band5\_5MHz\_16QAM\_20425\_25RB#0**

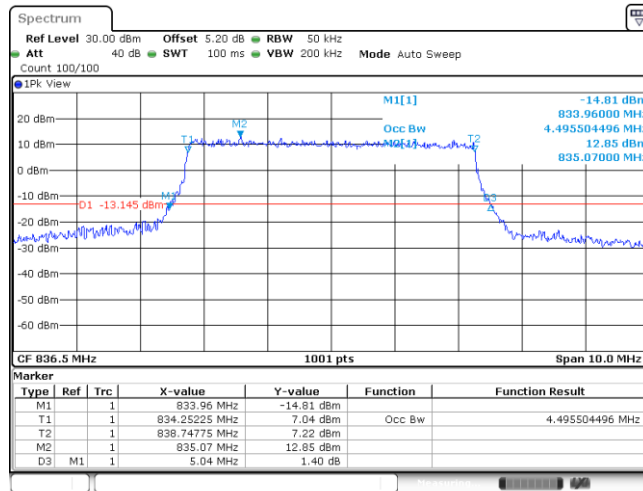


Date: 11 AUG 2019 03:41:52

**Band5\_5MHz\_16QAM\_20525\_25RB#0**

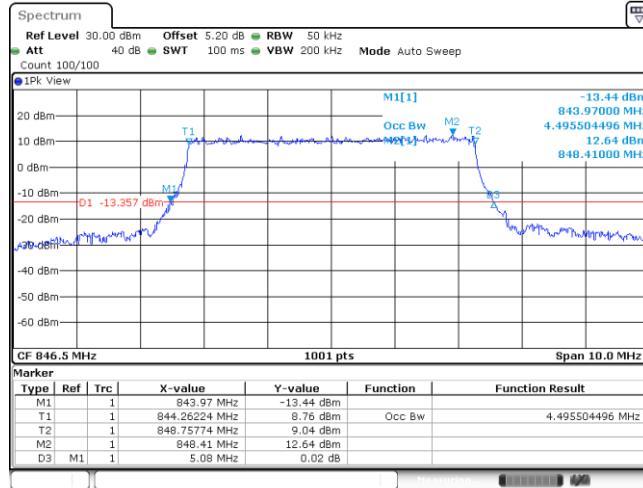


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Date: 11 AUG 2019 03:42:31

**Band5\_5MHz\_16QAM\_20625\_25RB#0**

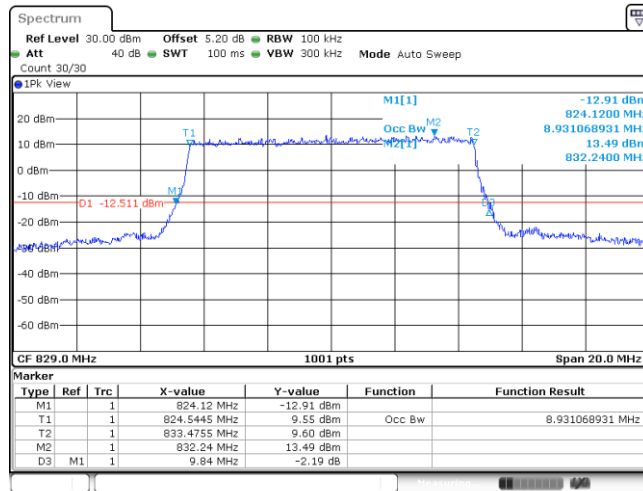


Date: 11 AUG 2019 03:43:12

**Band5\_10MHz\_QPSK\_20450\_50RB#0**

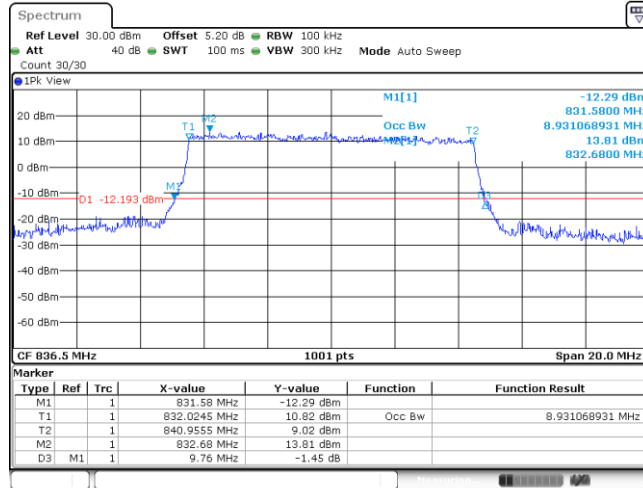


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Date: 11 AUG 2019 03:43:29

**Band5\_10MHz\_QPSK\_20525\_50RB#0**



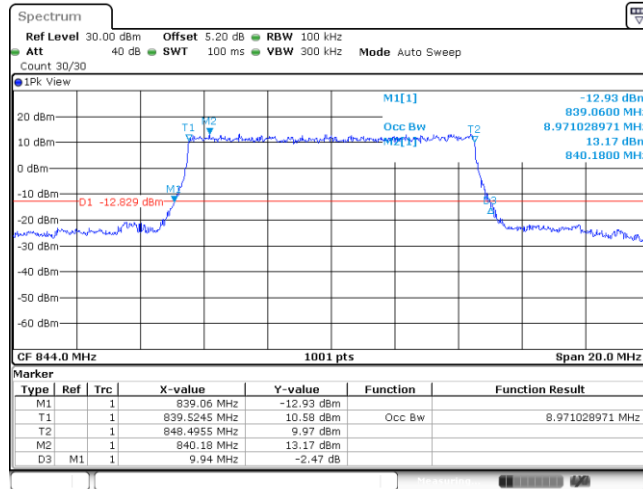
Date: 11 AUG 2019 03:43:56

**Band5\_10MHz\_QPSK\_20600\_50RB#0**



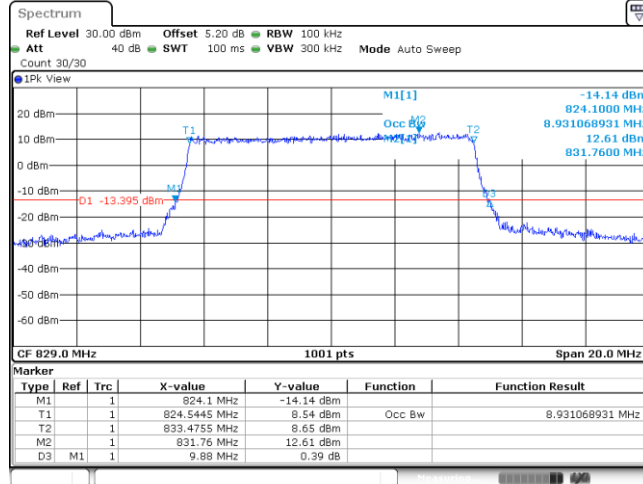
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Date: 11 AUG 2019 03:44:22

**Band5\_10MHz\_16QAM\_20450\_50RB#**

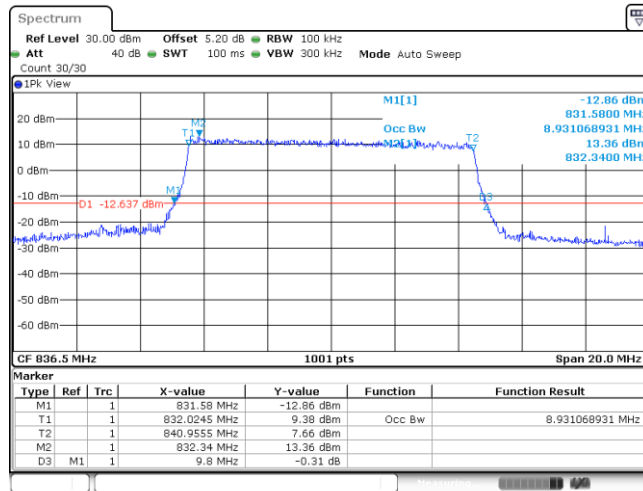


Date: 11 AUG 2019 03:43:43

**Band5\_10MHz\_16QAM\_20525\_50RB#**

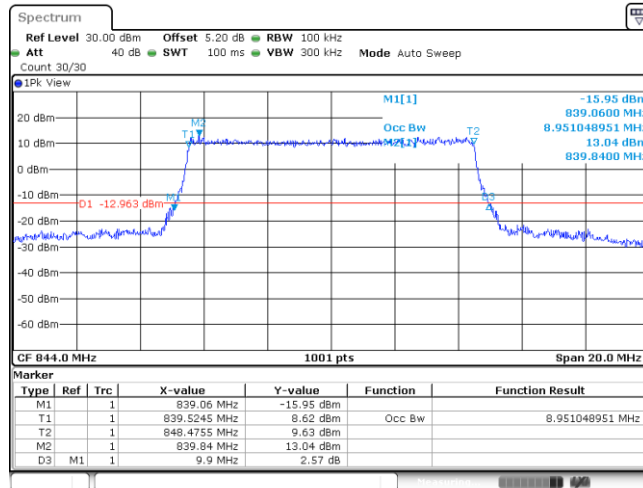


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Date: 11 AUG 2019 03:44:09

**Band5\_10MHz\_16QAM\_20600\_50RB#0**



Date: 11 AUG 2019 03:44:35

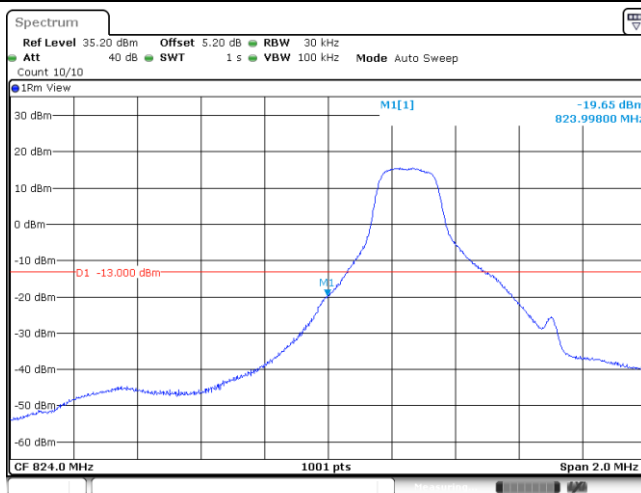


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## 5. Band Edge Compliance

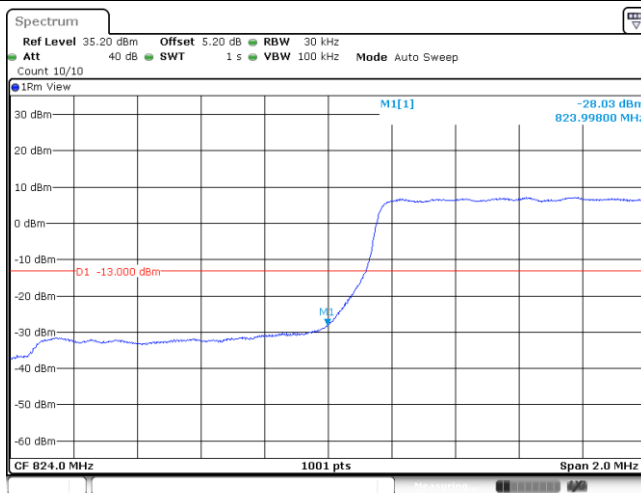
### 5.1. Test Plots

Band5\_1.4MHz\_QPSK\_20407\_1RB#0



Date: 11 AUG.2019 03:45:00

Band5\_1.4MHz\_QPSK\_20407\_6RB#0

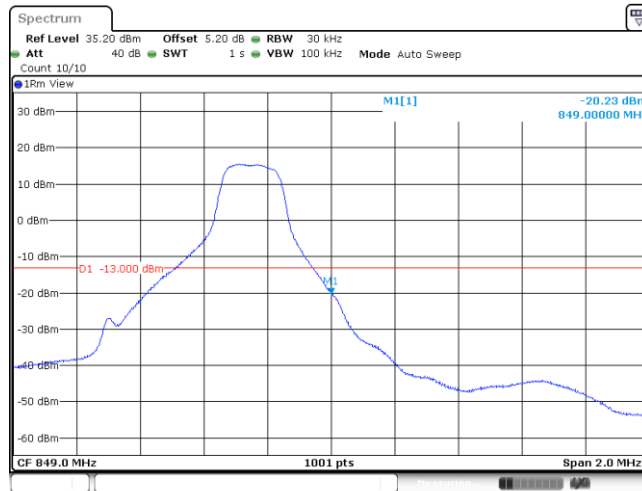


Date: 11 AUG.2019 03:46:28

Band5\_1.4MHz\_QPSK\_20643\_1RB#5

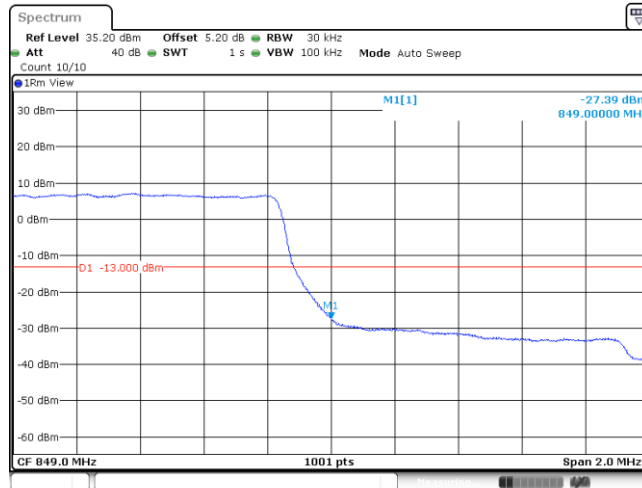


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Date: 11 AUG.2019 03:45:44

**Band5\_1.4MHz\_QPSK\_20643\_6RB#0**

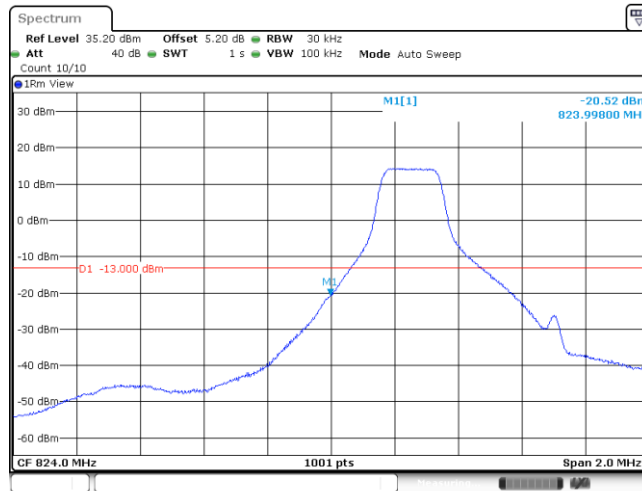


Date: 11 AUG.2019 03:47:08

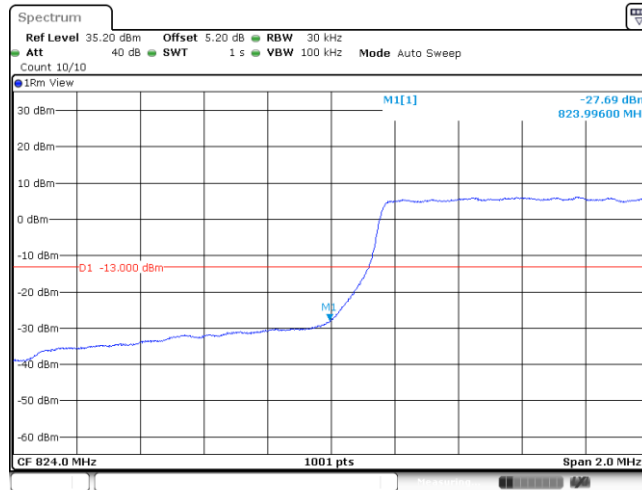
**Band5\_1.4MHz\_16QAM\_20407\_1RB#0**



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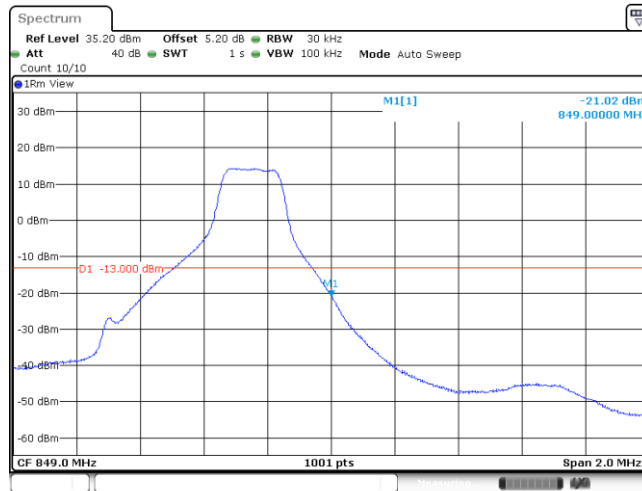
**Band5\_1.4MHz\_16QAM\_20407\_6RB#0**



**Band5\_1.4MHz\_16QAM\_20643\_1RB#5**

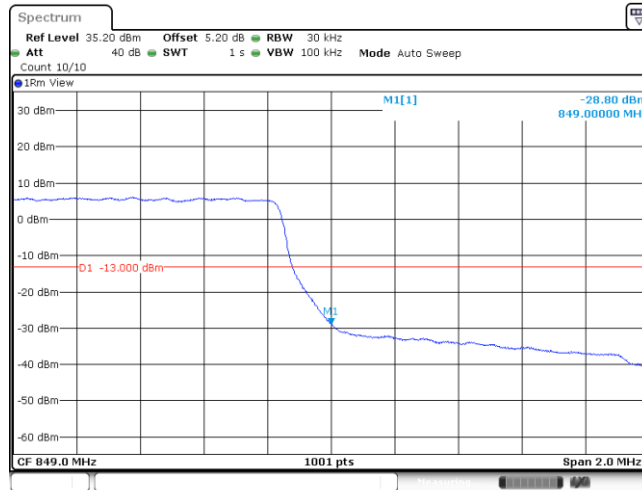


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Date: 11 AUG.2019 03:46:04

**Band5\_1.4MHz\_16QAM\_20643\_6RB#0**

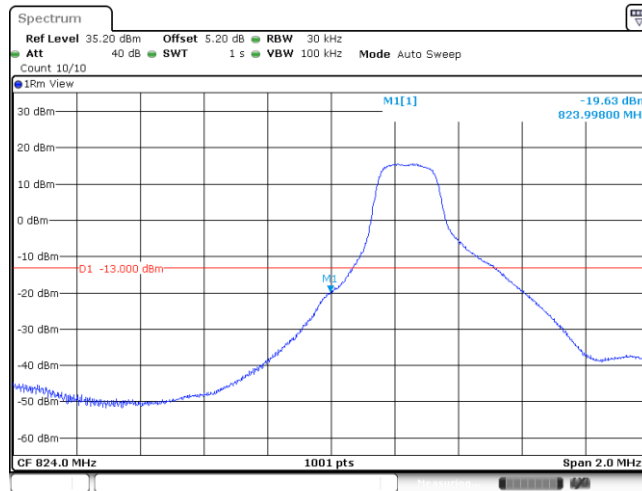


Date: 11 AUG.2019 03:47:28

**Band5\_3MHz\_QPSK\_20415\_1RB#0**

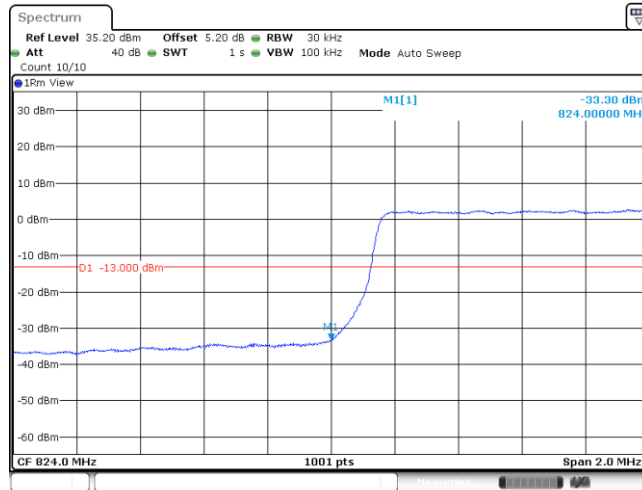


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Date: 11 AUG.2019 03:47:53

**Band5\_3MHz\_QPSK\_20415\_15RB#0**

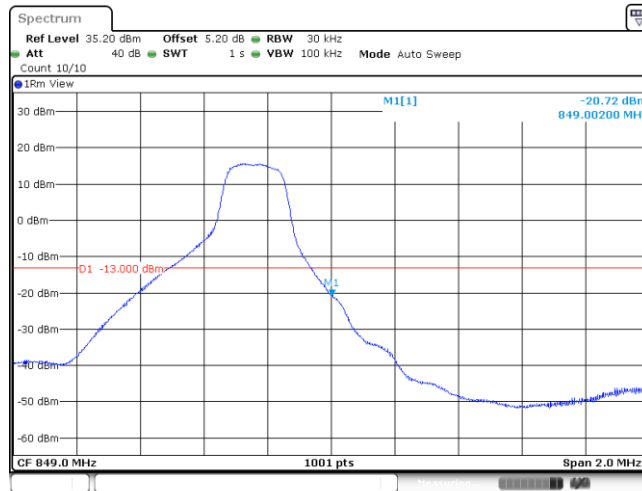


Date: 11 AUG.2019 03:49:22

**Band5\_3MHz\_QPSK\_20635\_1RB#14**

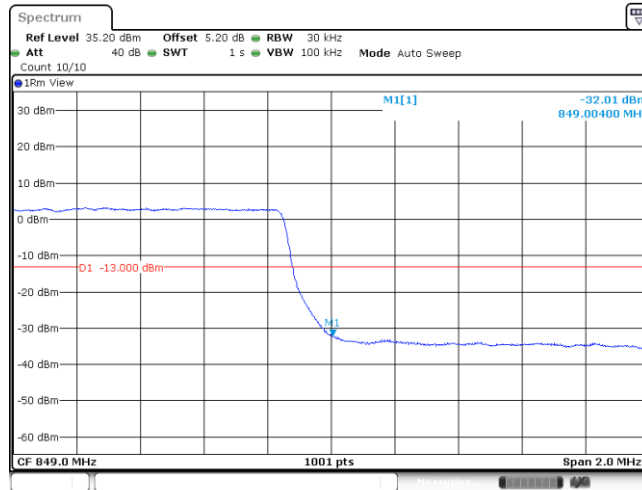


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Date: 11 AUG.2019 03:48:37

**Band5\_3MHz\_QPSK\_20635\_15RB#0**



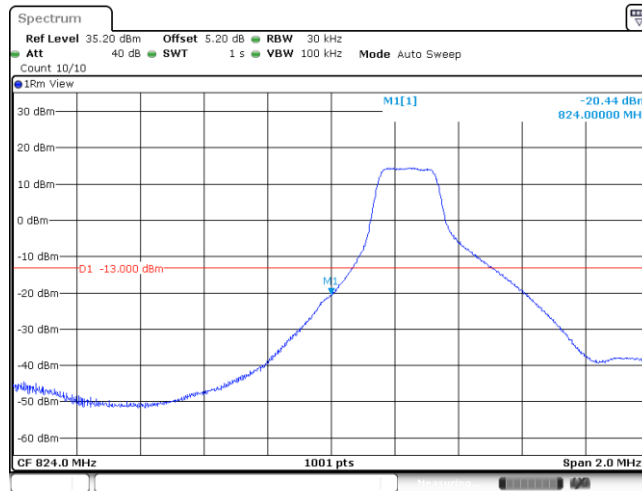
Date: 11 AUG.2019 03:50:02

**Band5\_3MHz\_16QAM\_20415\_1RB#0**



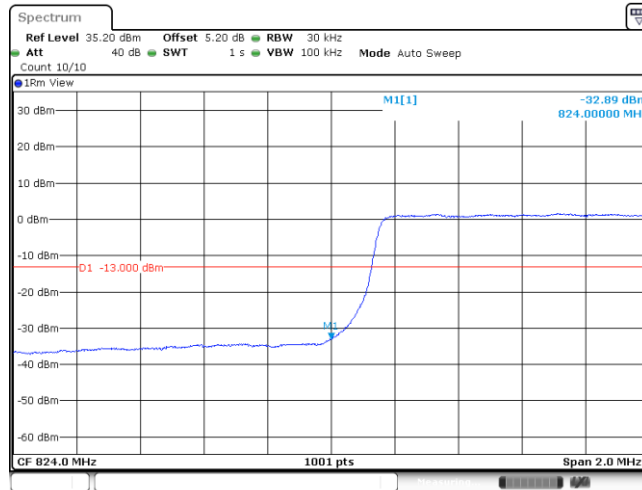
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Date: 11 AUG.2019 03:48:13

**Band5\_3MHz\_16QAM\_20415\_15RB#0**

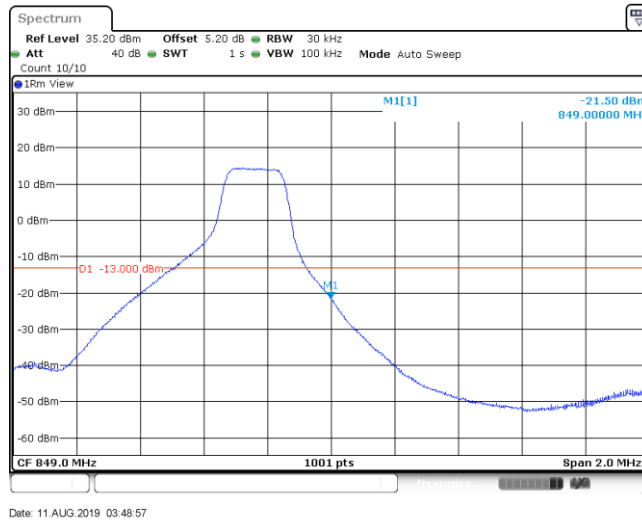


Date: 11 AUG.2019 03:49:42

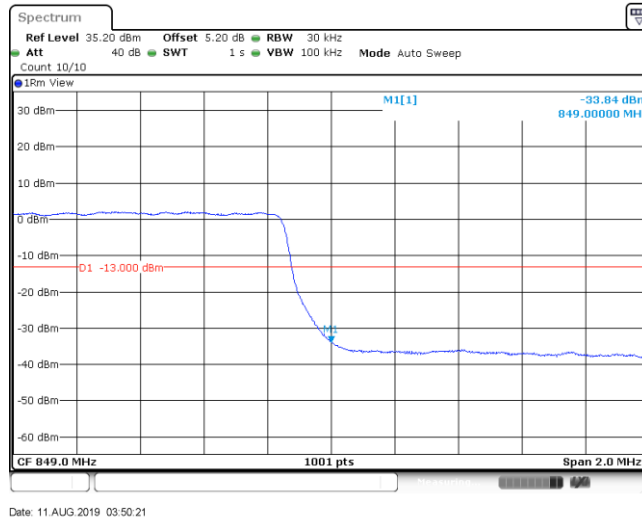
**Band5\_3MHz\_16QAM\_20635\_1RB#14**



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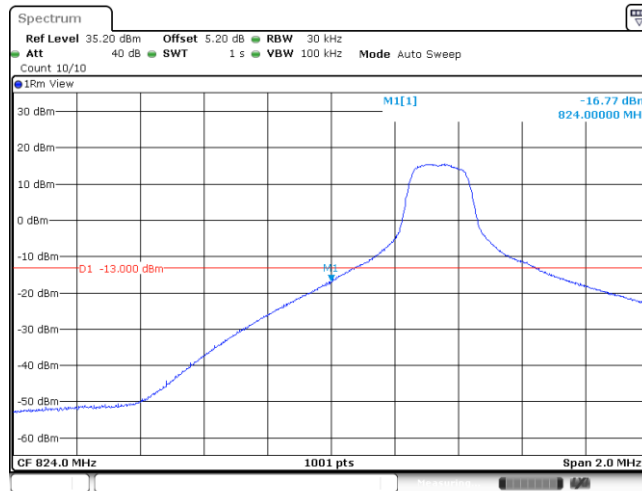
**Band5\_3MHz\_16QAM\_20635\_15RB#0**



**Band5\_5MHz\_QPSK\_20425\_1RB#0**

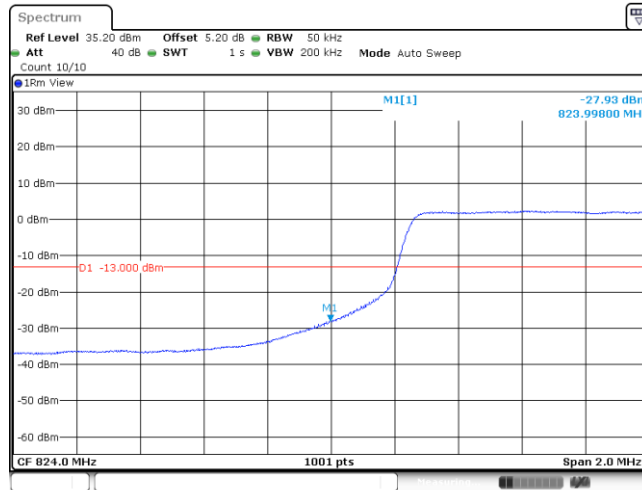


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Date: 11 AUG.2019 03:50:46

**Band5\_5MHz\_QPSK\_20425\_25RB#0**

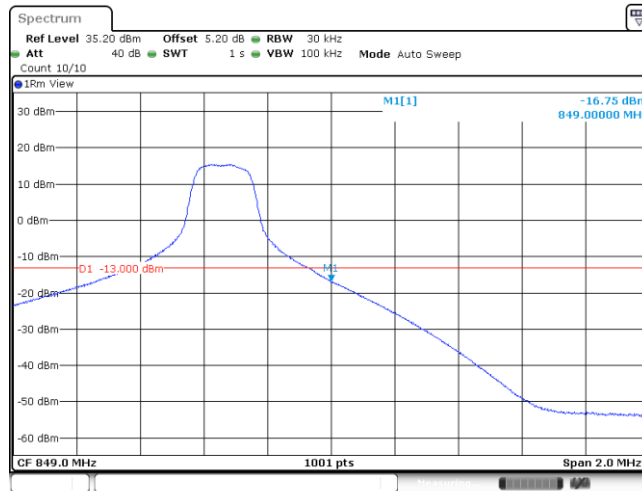


Date: 11 AUG.2019 03:52:14

**Band5\_5MHz\_QPSK\_20625\_1RB#24**

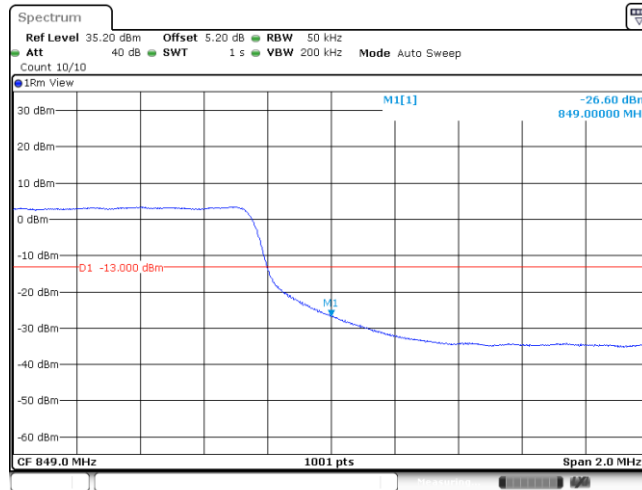


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Date: 11 AUG.2019 03:51:30

**Band5\_5MHz\_QPSK\_20625\_25RB#0**

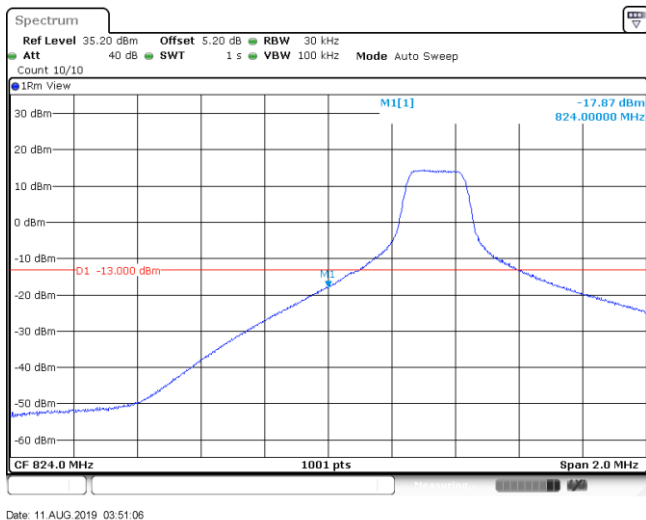


Date: 11 AUG.2019 03:52:53

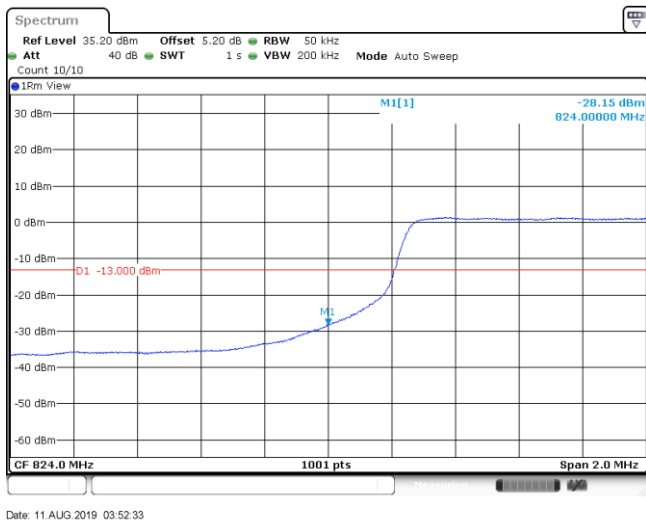
**Band5\_5MHz\_16QAM\_20425\_1RB#0**



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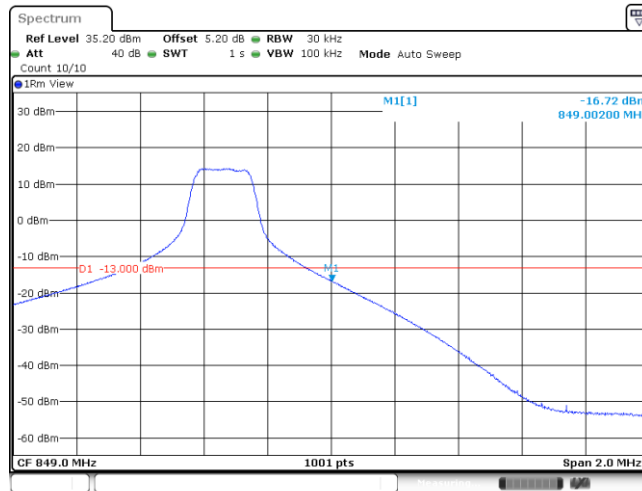
**Band5\_5MHz\_16QAM\_20425\_25RB#0**



**Band5\_5MHz\_16QAM\_20625\_1RB#24**

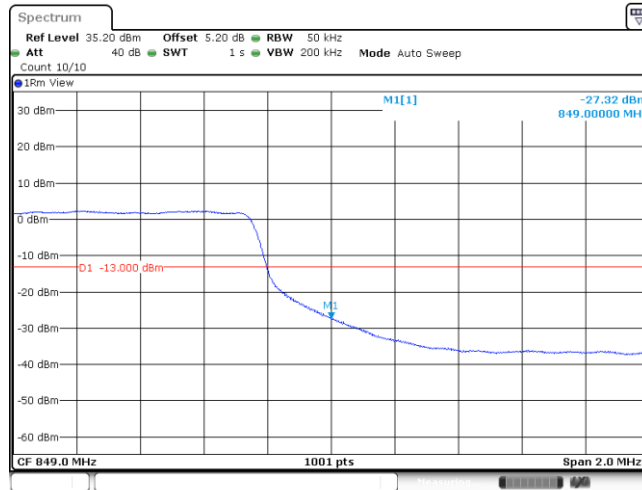


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Date: 11 AUG.2019 03:51:49

**Band5\_5MHz\_16QAM\_20625\_25RB#0**

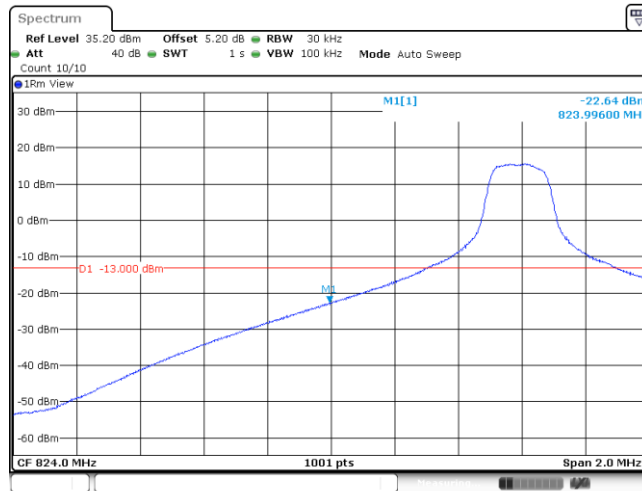


Date: 11 AUG.2019 03:53:13

**Band5\_10MHz\_QPSK\_20450\_1RB#0**

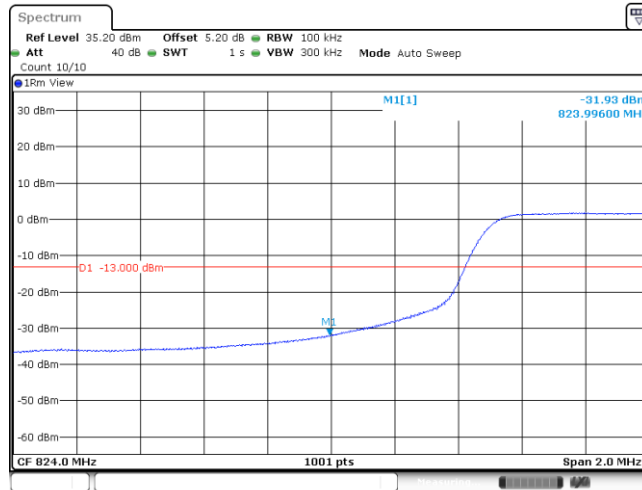


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Date: 11 AUG.2019 03:53:37

**Band5\_10MHz\_QPSK\_20450\_50RB#0**

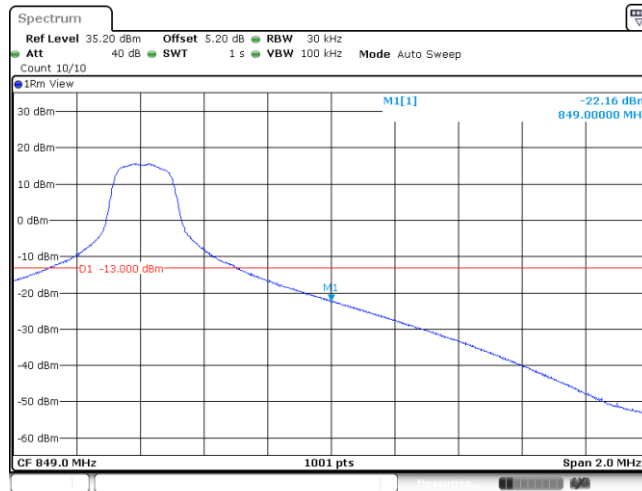


Date: 11 AUG.2019 03:55:05

**Band5\_10MHz\_QPSK\_20600\_1RB#49**

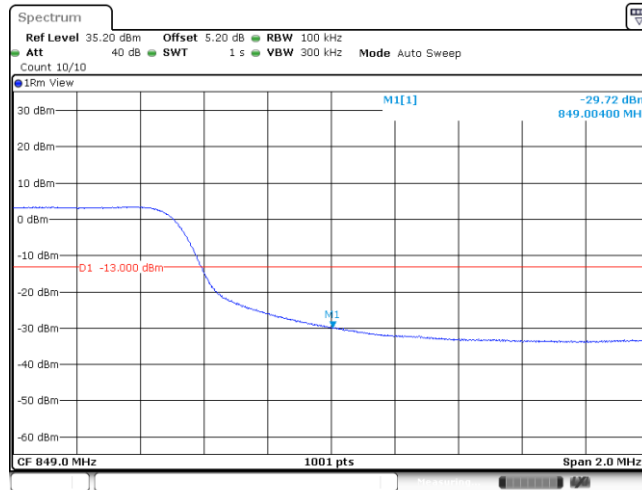


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Date: 11 AUG.2019 03:54:22

**Band5\_10MHz\_QPSK\_20600\_50RB#0**



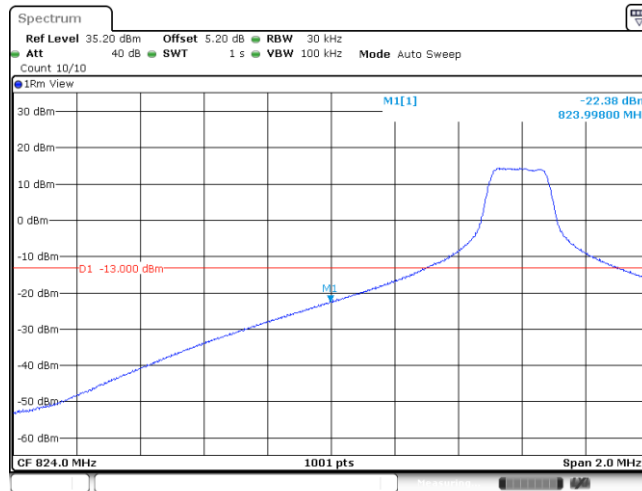
Date: 11 AUG.2019 03:55:45

**Band5\_10MHz\_16QAM\_20450\_1RB#0**

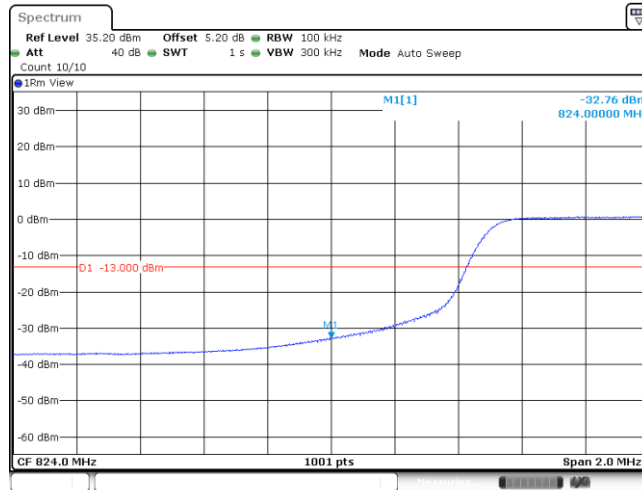


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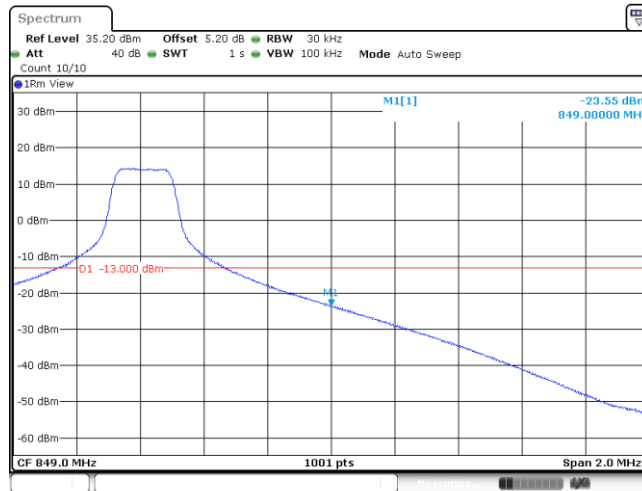
**Band5\_10MHz\_16QAM\_20450\_50RB#0**



**Band5\_10MHz\_16QAM\_20600\_1RB#49**

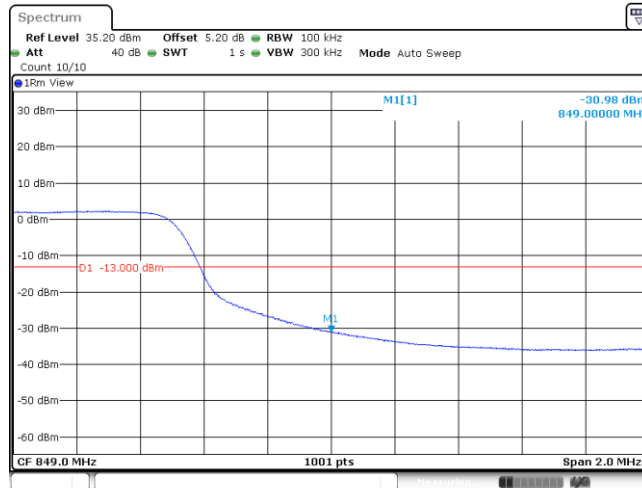


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Date: 11 AUG.2019 03:54:41

**Band5\_10MHz\_16QAM\_20600\_50RB#0**



Date: 11 AUG.2019 03:56:05



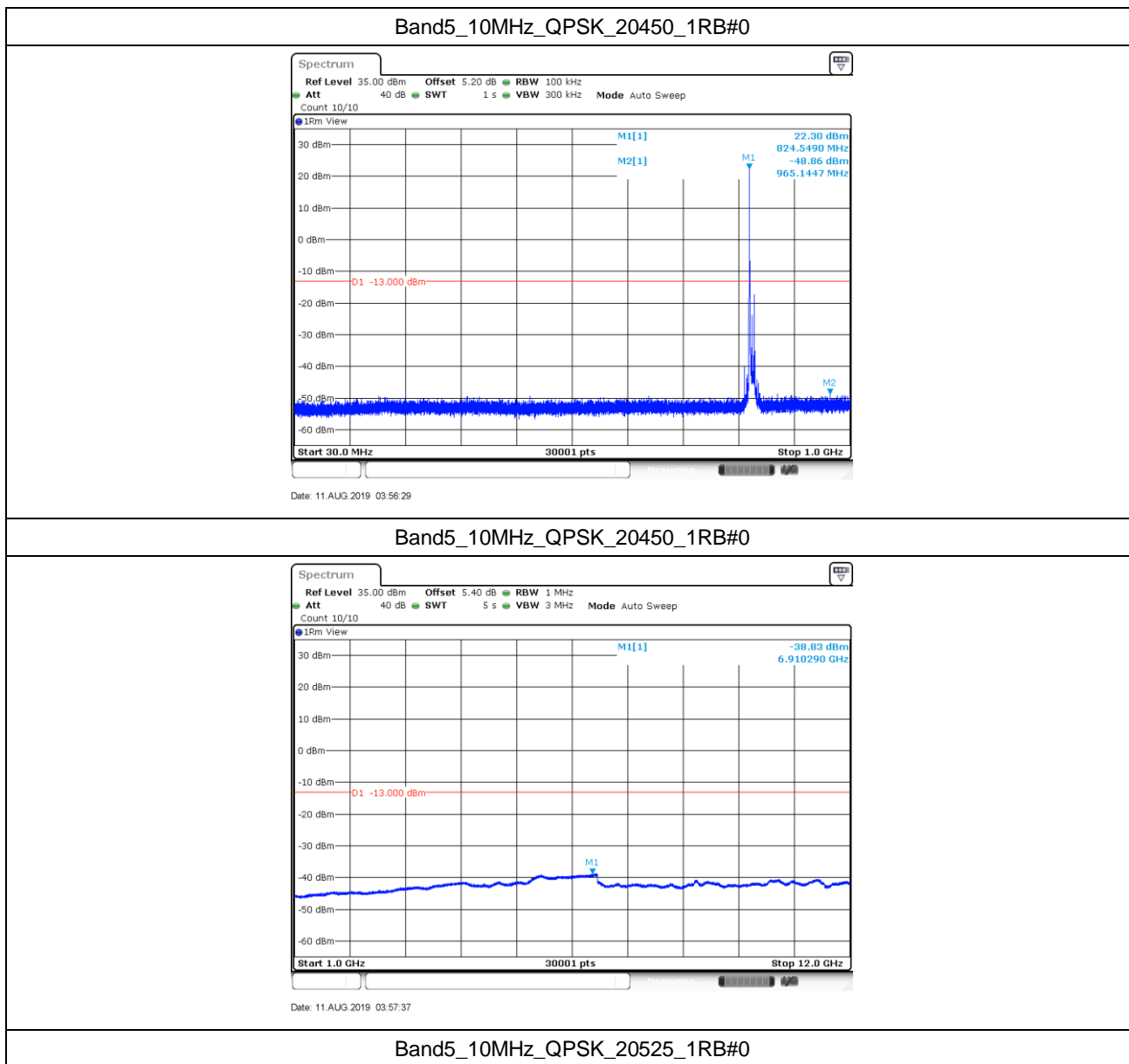
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## 6. Spurious Emission at Antenna Terminal

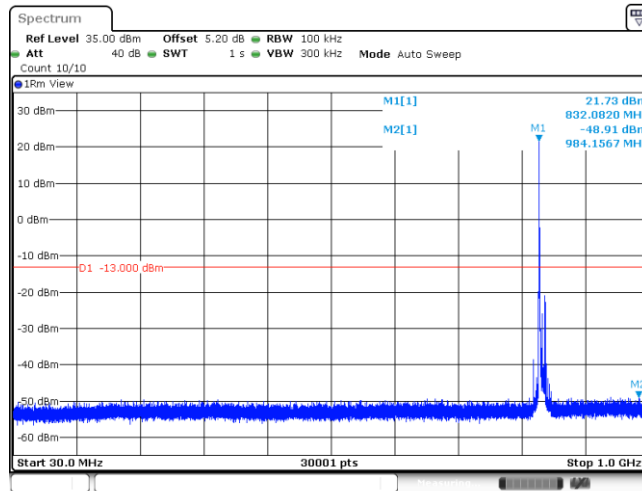
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points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

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

### 6.1. Test Plots

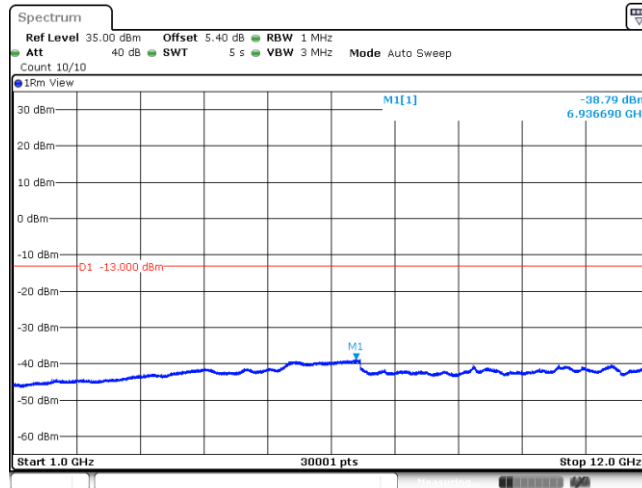


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Date: 11 AUG.2019 03:59:25

**Band5\_10MHz\_QPSK\_20525\_1RB#0**

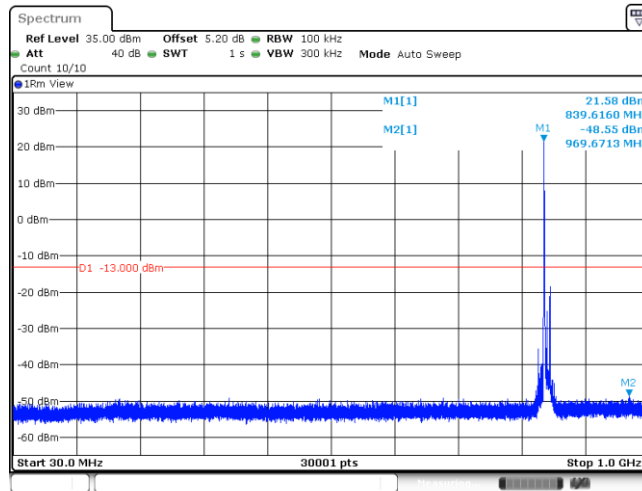


Date: 11 AUG.2019 04:00:33

**Band5\_10MHz\_QPSK\_20600\_1RB#0**

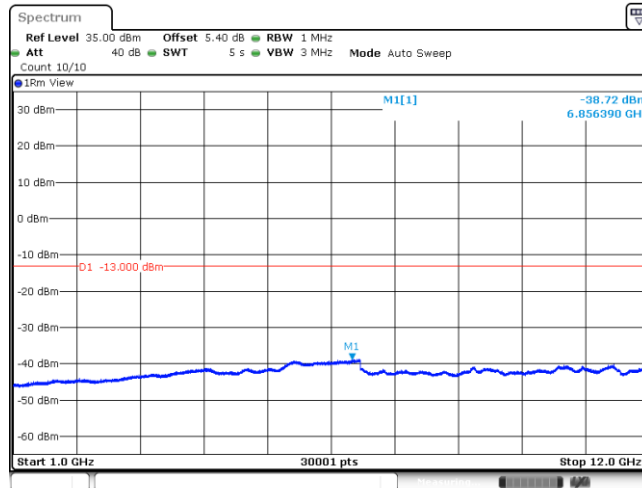


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Date: 11 AUG.2019 04:02:21

**Band5\_10MHz\_QPSK\_20600\_1RB#0**

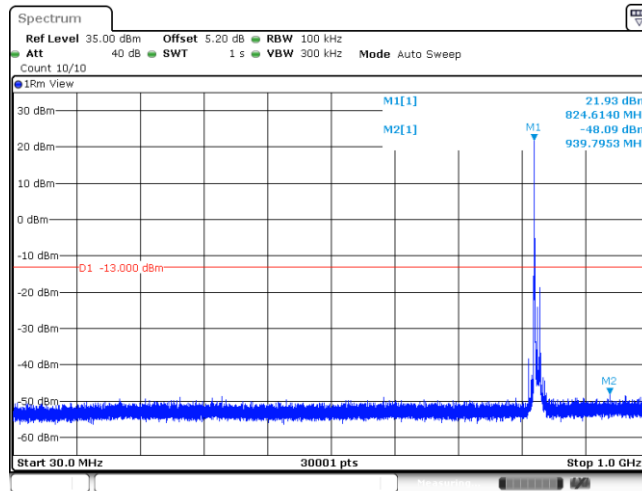


Date: 11 AUG.2019 04:03:28

**Band5\_10MHz\_16QAM\_20450\_1RB#0**

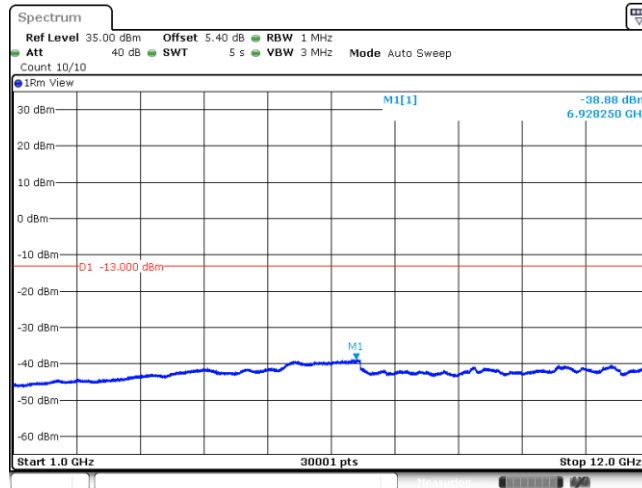


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Date: 11 AUG.2019 03:57:57

Band5\_10MHz\_16QAM\_20450\_1RB#0

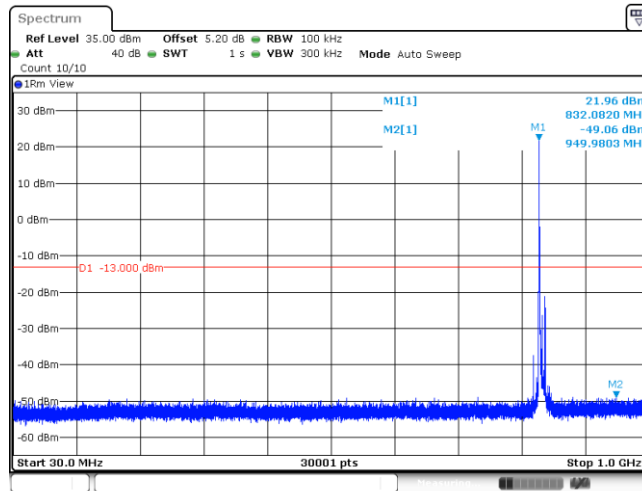


Date: 11 AUG.2019 03:59:04

Band5\_10MHz\_16QAM\_20525\_1RB#0

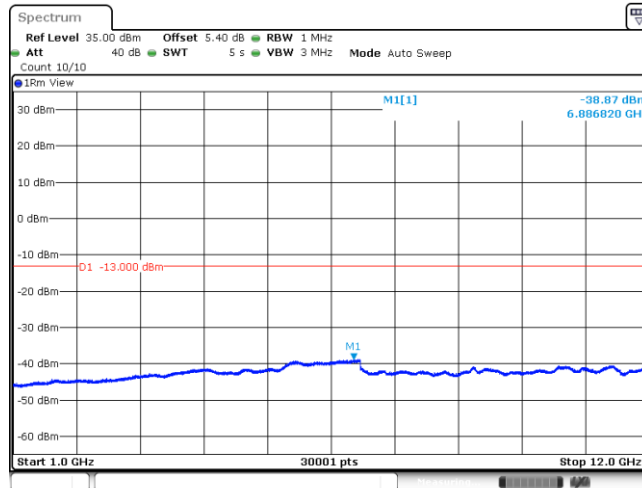


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Date: 11 AUG.2019 04:00:53

Band5\_10MHz\_16QAM\_20525\_1RB#0

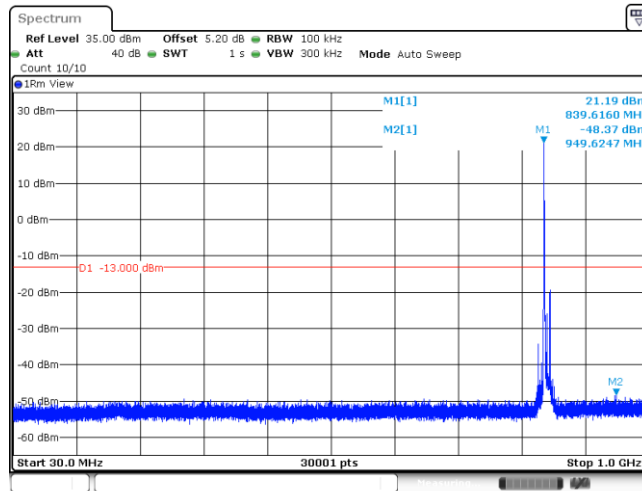


Date: 11 AUG.2019 04:02:00

Band5\_10MHz\_16QAM\_20600\_1RB#0

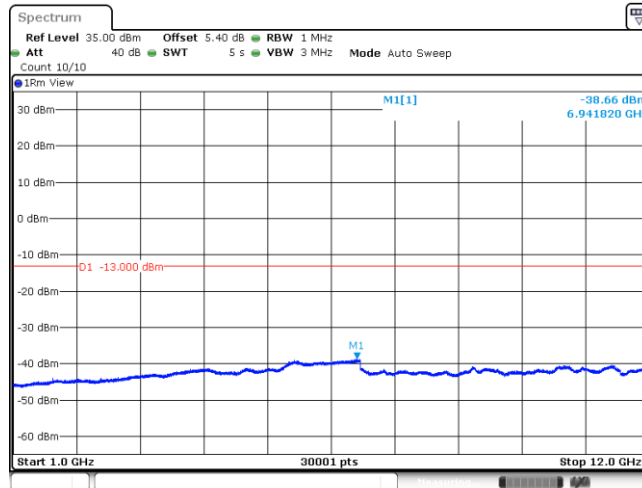


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Date: 11 AUG.2019 04:03:49

**Band5\_10MHz\_16QAM\_20600\_1RB#0**



Date: 11 AUG.2019 04:04:56



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## 7. Field Strength of Spurious Radiation

### 7.1. Test Band = LTE Band 5

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

##### 7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
109.6410	-63.40	-13.00	50.40	Vertical
602.0376	-60.07	-13.00	47.07	Vertical
1649.7299	-58.00	-13.00	45.00	Vertical
1940.9882	-52.32	-13.00	39.32	Vertical
5599.6867	-55.76	-13.00	42.76	Vertical
8975.3992	-51.12	-13.00	38.12	Vertical
42.1256	-61.77	-13.00	48.77	Horizontal
226.8713	-65.65	-13.00	52.65	Horizontal
1648.9298	-53.09	-13.00	40.09	Horizontal
2459.0918	-56.61	-13.00	43.61	Horizontal
4123.0374	-54.69	-13.00	41.69	Horizontal
8759.1920	-51.24	-13.00	38.24	Horizontal

##### 7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
111.6296	-62.60	-13.00	49.60	Vertical
598.6909	-60.91	-13.00	47.91	Vertical
1664.1328	-60.17	-13.00	47.17	Vertical
1958.9918	-52.91	-13.00	39.91	Vertical
5867.8956	-55.79	-13.00	42.79	Vertical
8599.5867	-51.08	-13.00	38.08	Vertical
39.8460	-62.63	-13.00	49.63	Horizontal
235.4078	-65.85	-13.00	52.85	Horizontal
1664.1328	-57.61	-13.00	44.61	Horizontal
1958.9918	-54.92	-13.00	41.92	Horizontal
2697.5395	-56.12	-13.00	43.12	Horizontal
8823.5941	-51.46	-13.00	38.46	Horizontal



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**7.1.1.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
44.9872	-71.30	-13.00	58.30	Vertical
108.5739	-62.52	-13.00	49.52	Vertical
604.2687	-61.34	-13.00	48.34	Vertical
1679.3359	-61.15	-13.00	48.15	Vertical
2518.7037	-55.90	-13.00	42.90	Vertical
8584.1861	-51.20	-13.00	38.20	Vertical
44.2112	-62.46	-13.00	49.46	Horizontal
240.5490	-65.45	-13.00	52.45	Horizontal
1678.9358	-58.70	-13.00	45.70	Horizontal
2519.1038	-50.78	-13.00	37.78	Horizontal
5751.2917	-55.00	-13.00	42.00	Horizontal
8808.9936	-51.03	-13.00	38.03	Horizontal

**Remark:**

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

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	-8.40	-0.010133	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	-14.10	-0.017008	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	-11.10	-0.013390	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-10.80	-0.012911	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-7.00	-0.008368	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-11.10	-0.013270	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	-9.30	-0.011019	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	-5.40	-0.006398	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	-8.00	-0.009479	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VL	NT	-1.60	-0.001930	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VN	NT	-5.00	-0.006031	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VH	NT	-8.20	-0.009891	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VL	NT	-3.30	-0.003945	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VN	NT	-4.80	-0.005738	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VH	NT	-1.60	-0.001913	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VL	NT	-8.50	-0.010071	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VN	NT	-8.20	-0.009716	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VH	NT	-3.80	-0.004502	±2.5	PASS

### 8.2. Frequency Vs Temperature

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	NV	-30	-7.70	-0.009288	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	-7.00	-0.008444	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	-1.90	-0.002292	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	-4.30	-0.005187	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	-2.90	-0.003498	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	-5.50	-0.006634	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	-8.40	-0.010133	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	-7.60	-0.009168	±2.5	PASS



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Band5	10MHz	QPSK	20525	50RB#0	NV	-30	-7.60	-0.009085	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-7.30	-0.008727	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-5.30	-0.006336	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-8.00	-0.009564	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-8.20	-0.009803	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-7.50	-0.008966	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-8.00	-0.009564	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-8.40	-0.010042	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	-7.70	-0.009123	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	-2.50	-0.002962	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	-6.50	-0.007701	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	-3.00	-0.003555	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	-2.80	-0.003318	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	-5.90	-0.006991	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	-9.60	-0.011374	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	-9.10	-0.010782	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-30	-11.10	-0.013390	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-20	-8.10	-0.009771	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	0	-10.80	-0.013028	±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	-4.40	-0.005308	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	30	-8.50	-0.010253	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	40	-8.70	-0.010495	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	50	-8.50	-0.010253	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-30	0.40	0.000478	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-20	-8.30	-0.009922	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	0	-7.30	-0.008727	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	10	-3.70	-0.004423	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	20	-9.70	-0.011596	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	30	-4.10	-0.004901	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	40	-6.70	-0.008010	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	50	0.00	0.000000	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-30	-5.20	-0.006161	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-20	-3.20	-0.003791	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	0	-3.90	-0.004621	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	10	-10.60	-0.012559	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	20	-7.30	-0.008649	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	30	-7.70	-0.009123	±2.5	PASS



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Band5	10MHz	16QAM	20600	50RB#0	NV	40	-7.70	-0.009123	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	50	-5.70	-0.006754	±2.5	PASS

The End



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