



# Appendix B

## E-UTRA Band 5



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## CONTENT

<b>1.</b>	<b>EFFECTIVE (ISOTROPIC) RADIATED POWER.....</b>	<b>3</b>
1.1.	TEST RESULT .....	3
<b>2.</b>	<b>PEAK-TO-AVERAGE RATIO(CCDF).....</b>	<b>8</b>
2.1.	TEST RESULT .....	8
2.2.	TEST PLOTS.....	8
<b>3.</b>	<b>MODULATION CHARACTERISTICS .....</b>	<b>12</b>
3.1.	TEST BAND = LTE BAND 5 .....	12
3.2.	TEST MODE = LTE /TM1 10MHZ.....	12
3.2.1.	TEST CHANNEL = MCH.....	12
3.3.	TEST MODE = LTE /TM2 10MHZ.....	13
3.3.1.	TEST CHANNEL = MCH.....	13
<b>4.</b>	<b>26DB BANDWIDTH AND OCCUPIED BANDWIDTH .....</b>	<b>14</b>
4.1.	TEST RESULT .....	14
4.2.	TEST PLOTS.....	15
<b>5.</b>	<b>BAND EDGE COMPLIANCE .....</b>	<b>27</b>
5.1.	TEST PLOTS.....	27
<b>6.</b>	<b>SPURIOUS EMISSION AT ANTENNA TERMINAL .....</b>	<b>43</b>
6.1.	TEST PLOTS.....	43
<b>7.</b>	<b>FIELD STRENGTH OF SPURIOUS RADIATION.....</b>	<b>49</b>
7.1.	TEST BAND = LTE BAND 5 .....	49
7.1.1.	TEST MODE =LTE/TM1 10MHZ.....	49
7.1.1.1.	TEST CHANNEL = LCH .....	49
7.1.1.2.	TEST CHANNEL = MCH.....	49
7.1.1.3.	TEST CHANNEL = HCH .....	50
<b>8.</b>	<b>FREQUENCY STABILITY .....</b>	<b>51</b>
8.1.	FREQUENCY VS VOLTAGE .....	51
8.2.	FREQUENCY VS TEMPERATURE .....	51



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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	23.42	18.95	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.31	18.84	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.22	18.75	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.31	18.84	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	23.35	18.88	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.48	19.01	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.48	18.01	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.19	18.72	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.30	18.83	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.32	18.85	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.26	18.79	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	23.35	18.88	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.46	18.99	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.36	17.89	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.43	18.96	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.39	18.92	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.24	18.77	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.44	18.97	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	23.58	19.11	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	23.53	19.06	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.36	17.89	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.02	17.55	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.22	17.75	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.08	17.61	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	22.41	17.94	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	22.48	18.01	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	22.50	18.03	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.37	16.90	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	21.91	17.44	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	21.95	17.48	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	21.99	17.52	38.45	PASS



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Band5	1.4MHz	16QAM	20525	3RB#0	22.46	17.99	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	22.46	17.99	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	22.45	17.98	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.42	16.95	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.03	17.56	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.01	17.54	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.52	18.05	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	22.90	18.43	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	22.51	18.04	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	22.73	18.26	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.24	16.77	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.30	18.83	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.29	18.82	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.01	18.54	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.42	17.95	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#4	22.48	18.01	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#7	22.44	17.97	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.47	18.00	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.17	18.70	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.23	18.76	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.09	18.62	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#0	22.34	17.87	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#4	22.32	17.85	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#7	22.28	17.81	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.28	17.81	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.14	18.67	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.23	18.76	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.22	18.75	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#0	22.37	17.90	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#4	22.40	17.93	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#7	22.44	17.97	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.44	17.97	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	21.94	17.47	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	21.97	17.50	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	21.74	17.27	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#0	21.53	17.06	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#4	21.58	17.11	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.56	17.09	38.45	PASS



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Band5	3MHz	16QAM	20415	15RB#0	21.46	16.99	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	21.68	17.21	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.12	17.65	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.05	17.58	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#0	21.19	16.72	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#4	21.23	16.76	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#7	21.21	16.74	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.35	16.88	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	21.91	17.44	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.01	17.54	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.14	17.67	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#0	21.07	16.60	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#4	21.30	16.83	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#7	21.58	17.11	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.38	16.91	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.31	18.84	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.30	18.83	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	22.89	18.42	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#0	22.41	17.94	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#6	22.34	17.87	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.31	17.84	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.27	17.80	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.06	18.59	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.37	18.90	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	22.94	18.47	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#0	22.27	17.80	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#6	22.26	17.79	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.27	17.80	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.19	17.72	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.09	18.62	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.10	18.63	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	22.86	18.39	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.22	17.75	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#6	22.21	17.74	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.33	17.86	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.40	17.93	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	21.91	17.44	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.37	17.90	38.45	PASS



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Band5	5MHz	16QAM	20425	1RB#24	21.77	17.30	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#0	21.13	16.66	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#6	21.29	16.82	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#13	21.05	16.58	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.26	16.79	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.26	17.79	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.31	17.84	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.15	17.68	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#0	21.21	16.74	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#6	21.19	16.72	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#13	21.20	16.73	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.35	16.88	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	21.92	17.45	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.33	17.86	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.24	17.77	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#0	21.10	16.63	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.07	16.60	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#13	21.22	16.75	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.50	17.03	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.38	18.91	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.53	19.06	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	22.85	18.38	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.53	18.06	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#12	22.23	17.76	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.15	17.68	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.33	17.86	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.08	18.61	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.69	19.22	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.16	18.69	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.35	17.88	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#12	22.43	17.96	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.25	17.78	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.29	17.82	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.02	18.55	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.50	19.03	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.07	18.60	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.61	18.14	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#12	22.43	17.96	38.45	PASS



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Band5	10MHz	QPSK	20600	25RB#25	22.22	17.75	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.24	17.77	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.08	17.61	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	21.75	17.28	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.09	17.62	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#0	21.32	16.85	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#12	21.28	16.81	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#25	21.28	16.81	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.32	16.85	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	21.80	17.33	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.33	17.86	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	21.89	17.42	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#0	21.38	16.91	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#12	21.38	16.91	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#25	21.31	16.84	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.37	16.90	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	21.90	17.43	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	21.91	17.44	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	21.82	17.35	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#0	21.30	16.83	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#12	21.25	16.78	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#25	21.34	16.87	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.46	16.99	38.45	PASS

**Remark:**

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

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



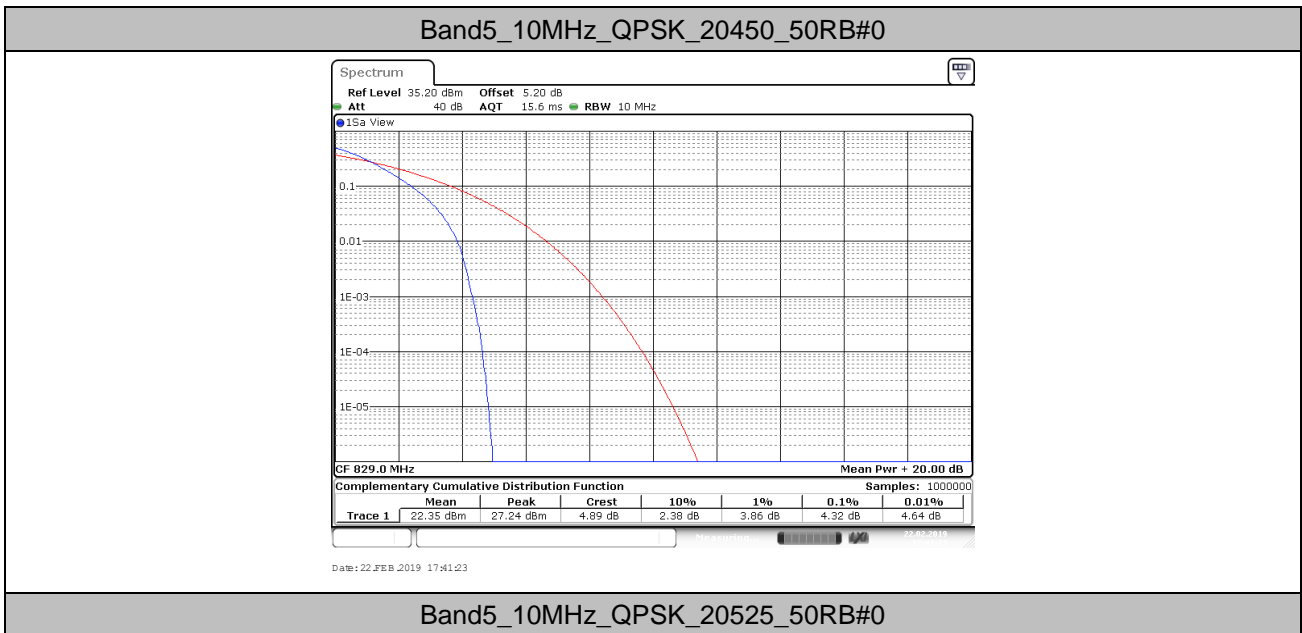
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## 2. Peak-to-Average Ratio(CCDF)

### 2.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	4.32	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	4.55	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	3.94	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.22	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.59	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	4.87	13	PASS

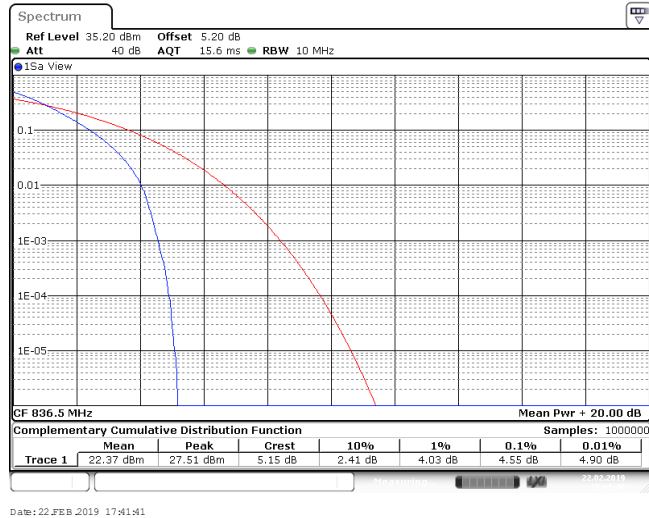
### 2.2. Test Plots



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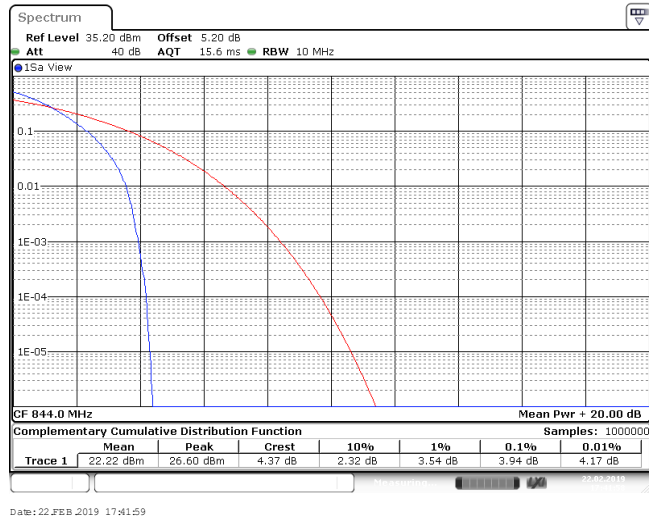
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Date: 22\_FEB\_2019 17:41:41

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

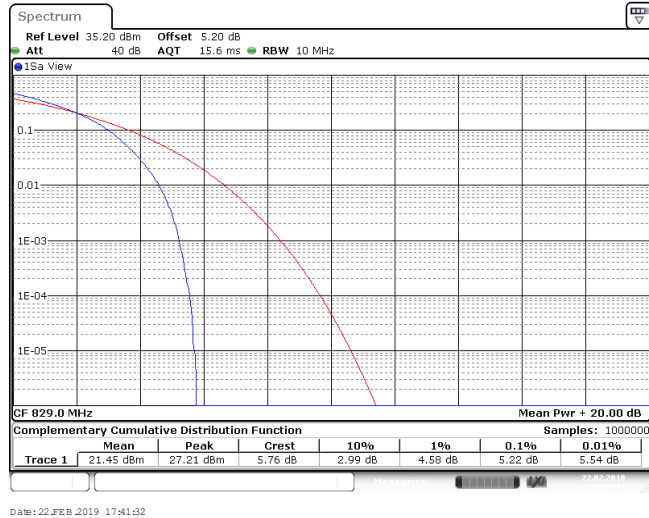


Date: 22\_FEB\_2019 17:41:59

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

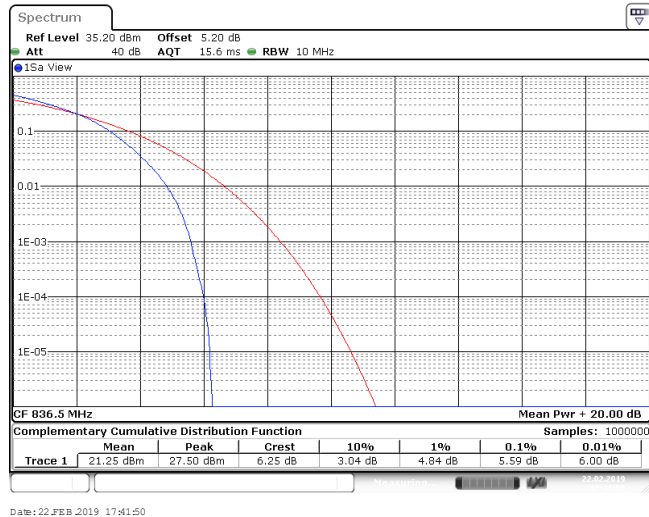


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Date: 22\_FEB\_2019 17:41:32

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



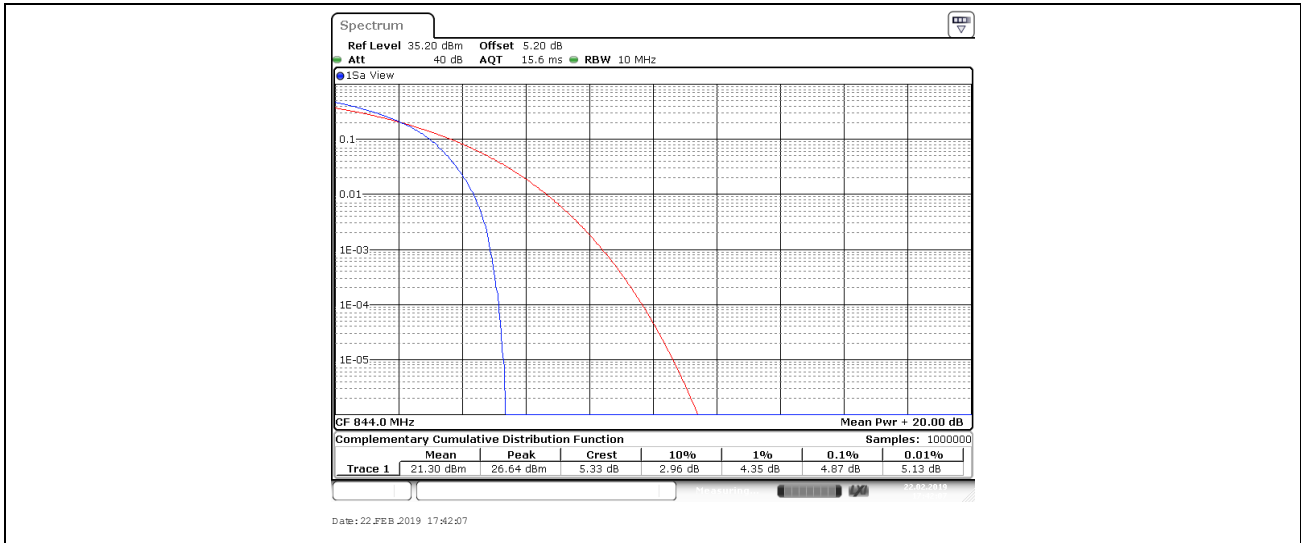
Date: 22\_FEB\_2019 17:41:50

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



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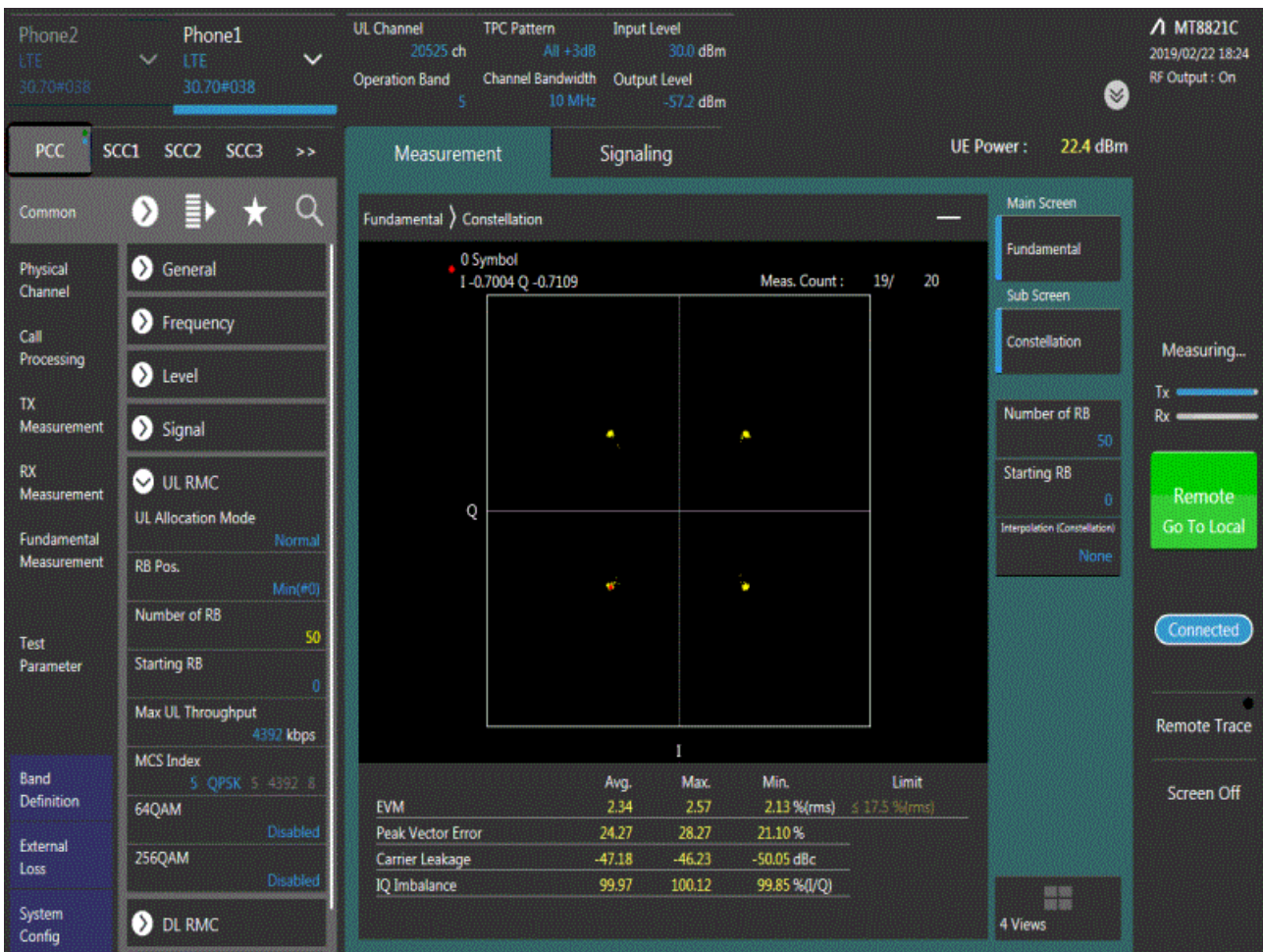
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### 3. Modulation Characteristics

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

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

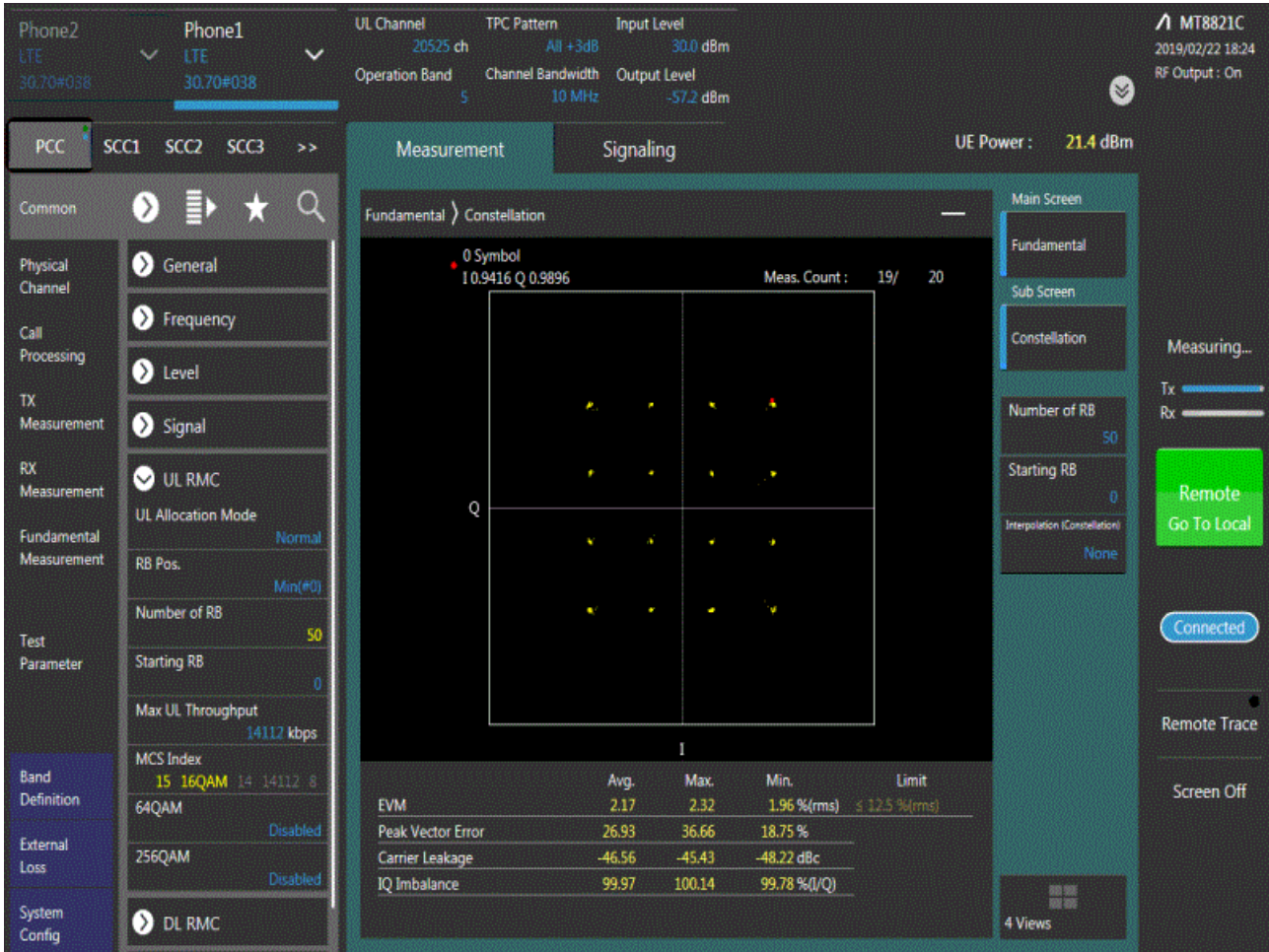
#### 3.2.1. Test Channel = MCH





### 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

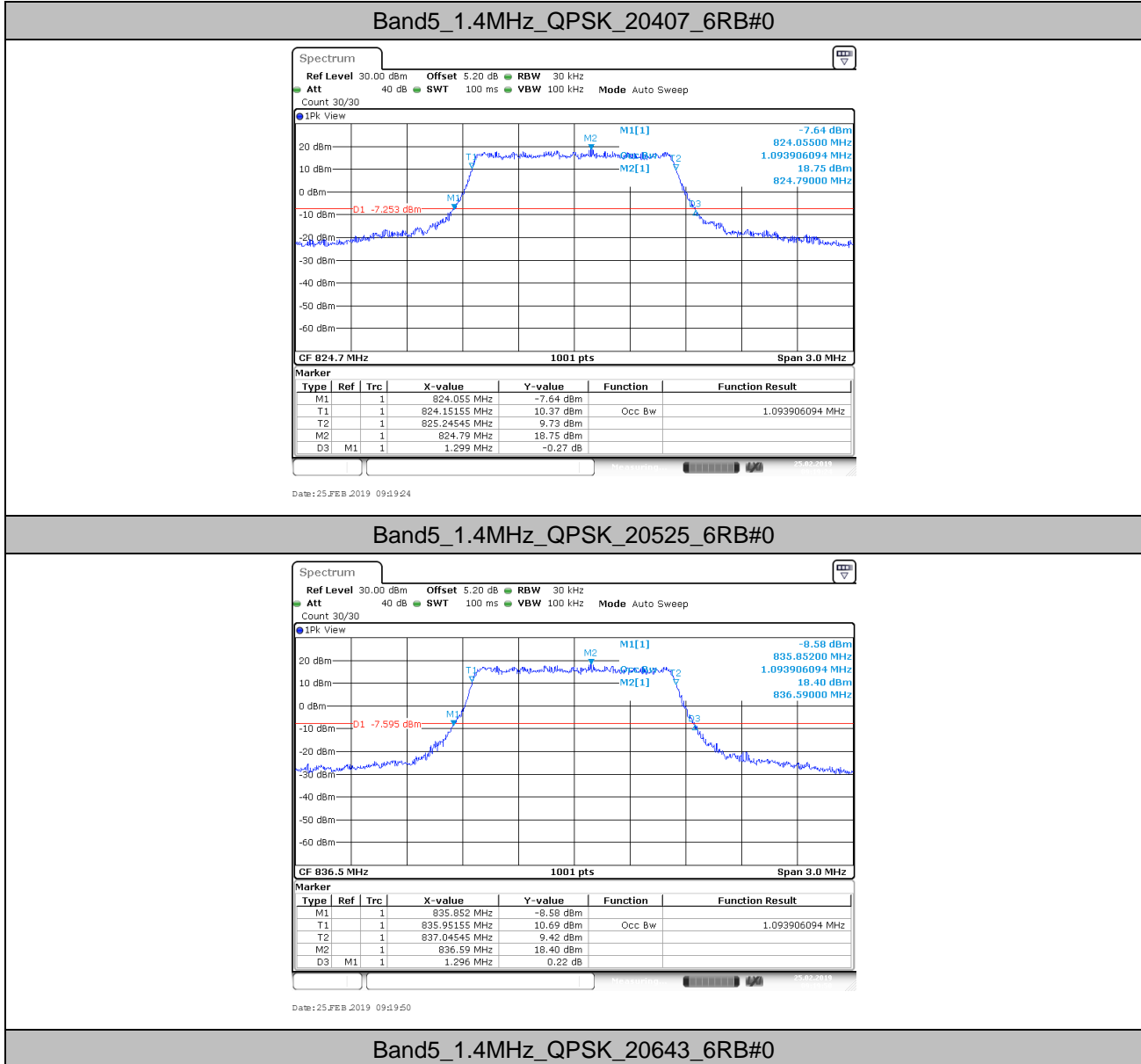
BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.094	1.299	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.094	1.296	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.100	1.344	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.091	1.305	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.091	1.293	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.097	1.317	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.697	2.994	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.697	3.006	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.703	3.024	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.685	2.976	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.685	2.982	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.691	2.982	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.466	4.930	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.476	4.930	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.476	4.940	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.486	4.970	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.496	4.960	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.496	4.980	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.911	9.660	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.911	9.720	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.931	9.700	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.911	9.720	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.931	9.780	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.931	9.720	PASS



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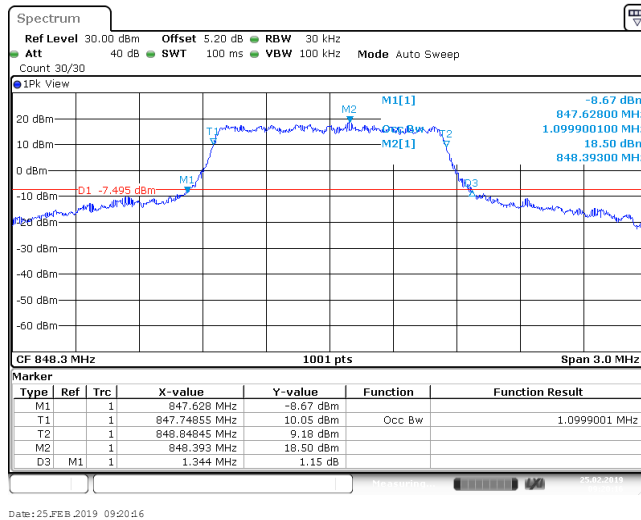
## 4.2. Test Plots



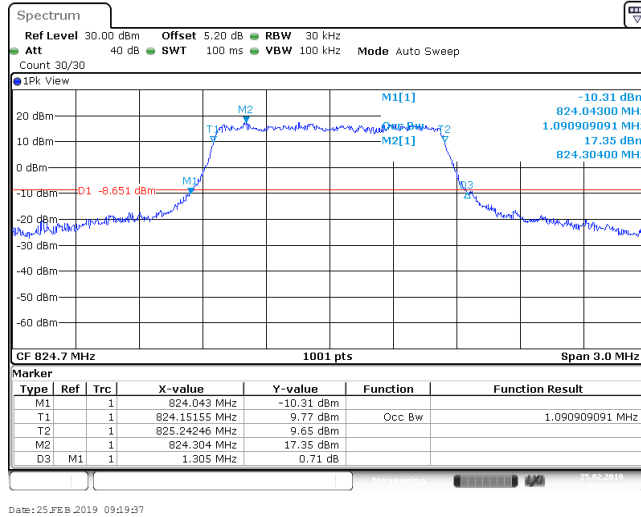
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**Band5\_1.4MHz\_16QAM\_20407\_6RB#0**

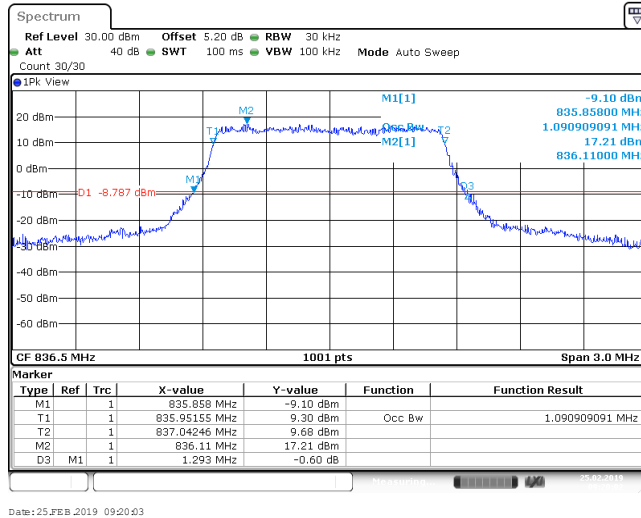


**Band5\_1.4MHz\_16QAM\_20525\_6RB#0**



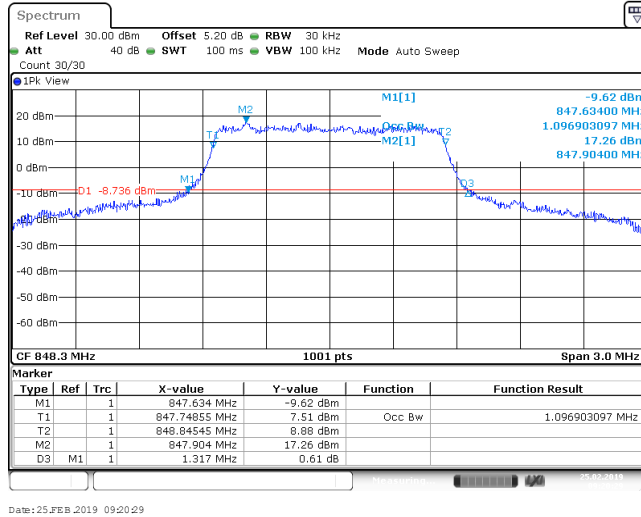
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Date: 25 FEB 2019 09:20:03

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

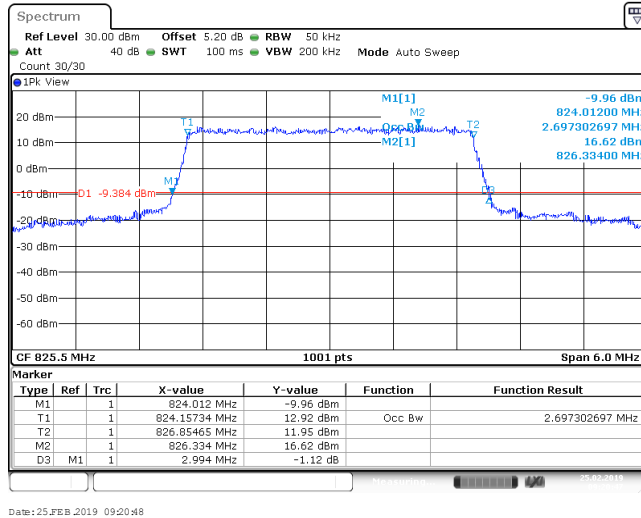


Date: 25 FEB 2019 09:20:29

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

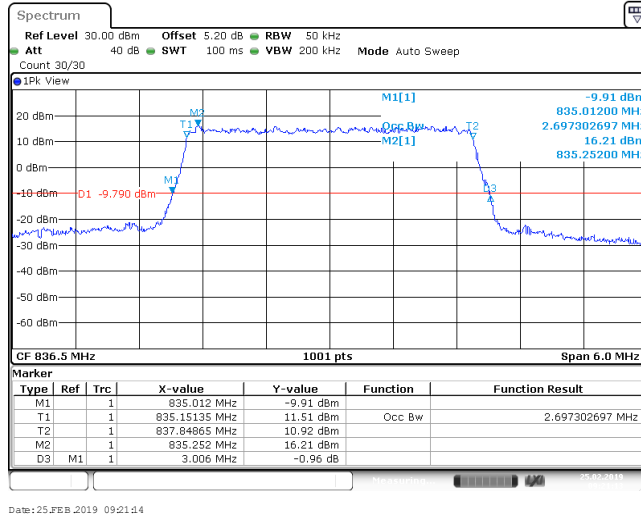


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Date: 25 FEB 2019 09:20:48

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

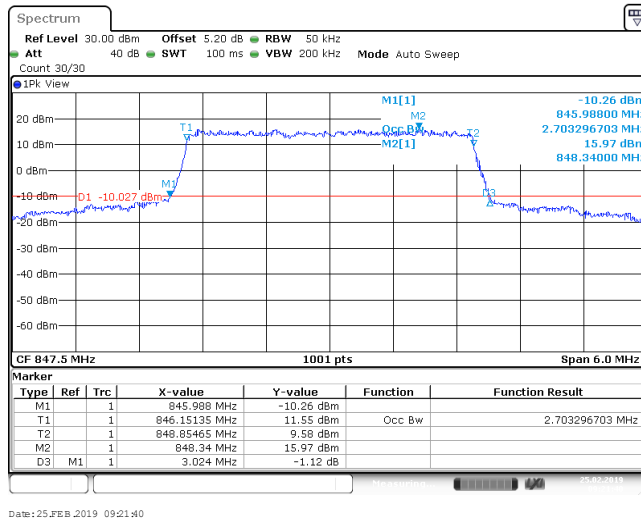


Date: 25 FEB 2019 09:21:14

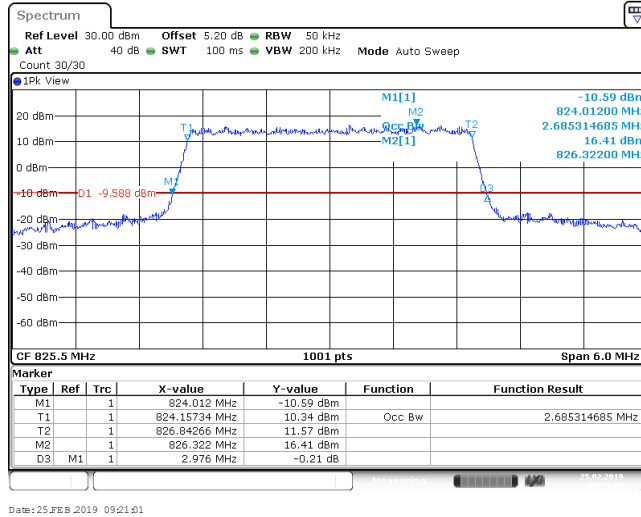
**Band5\_3MHz\_QPSK\_20635\_15RB#0**



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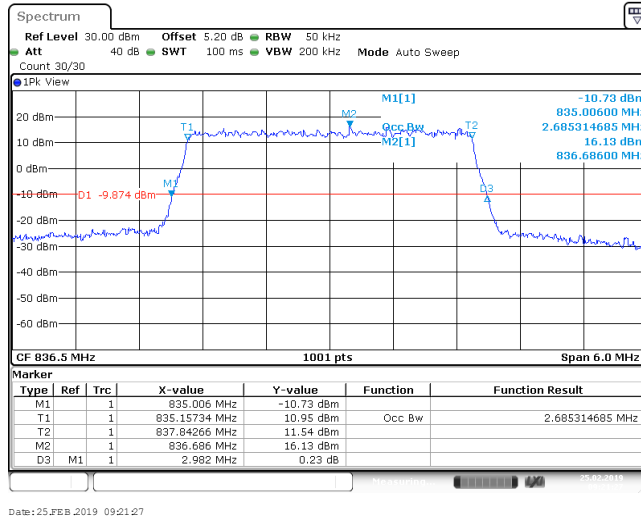
**Band5\_3MHz\_16QAM\_20415\_15RB#0**



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

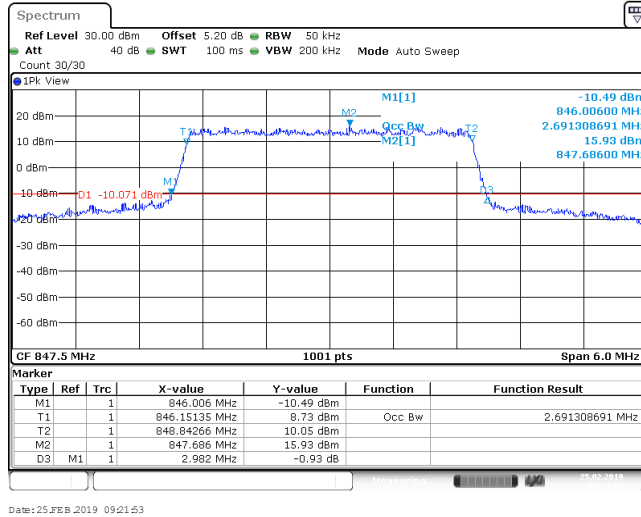


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Date: 25 FEB 2019 09:21:27

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



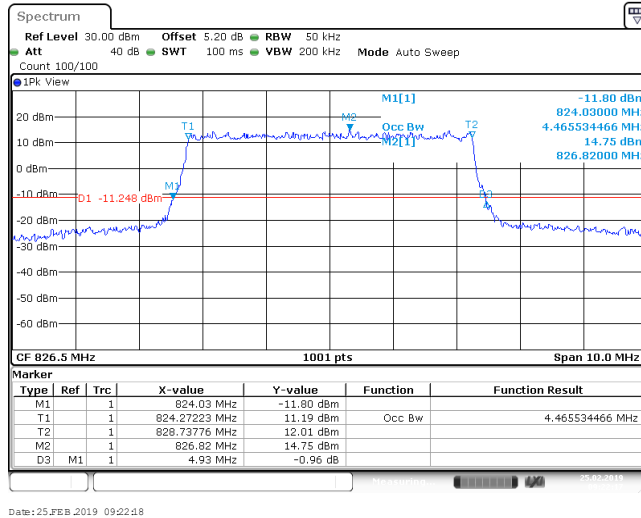
Date: 25 FEB 2019 09:21:53

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



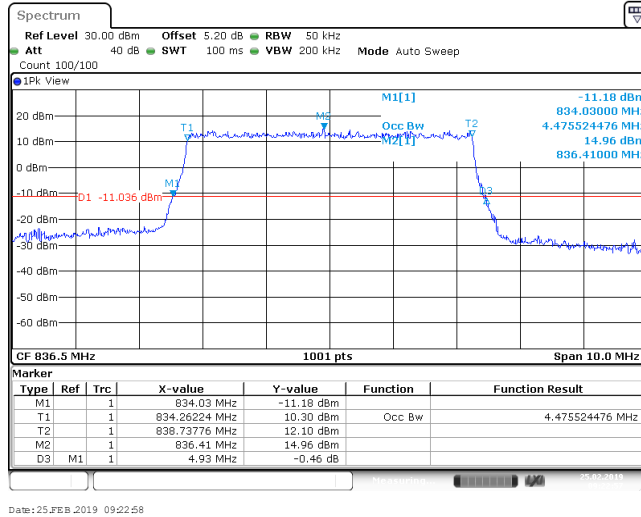
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Date: 25 FEB 2019 09:22:18

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

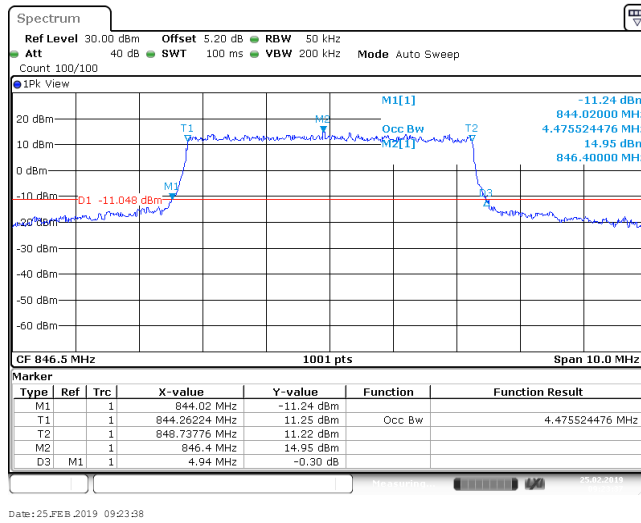


Date: 25 FEB 2019 09:22:58

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

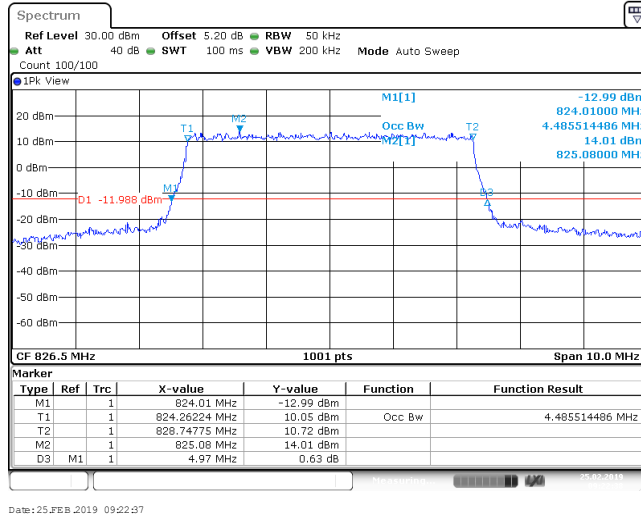


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Date: 25 FEB 2019 09:23:08

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

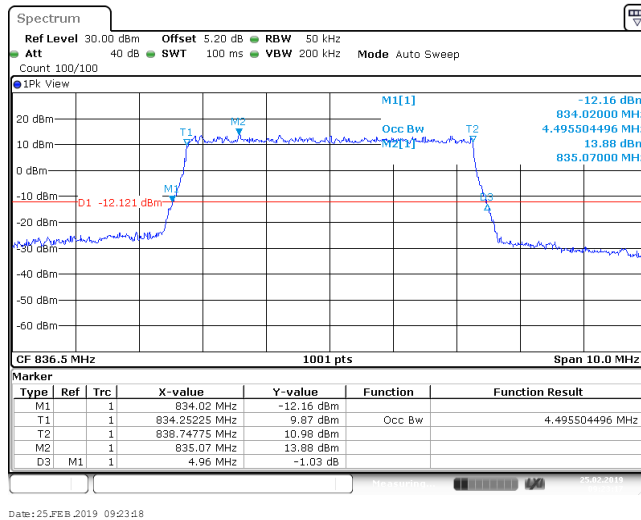


Date: 25 FEB 2019 09:22:37

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

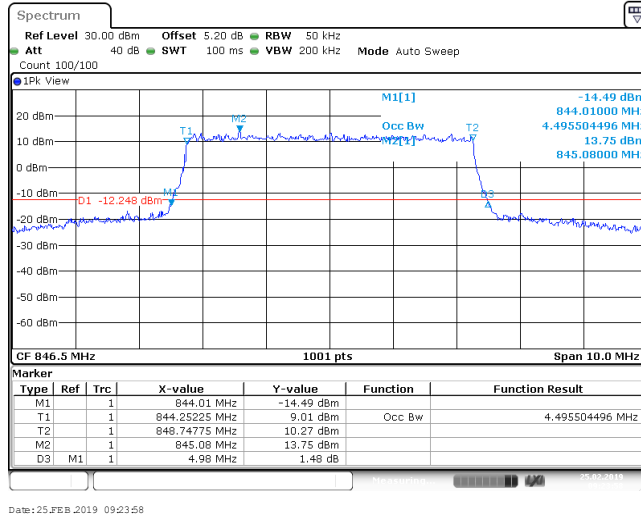


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Date: 25 FEB 2019 09:23:18

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

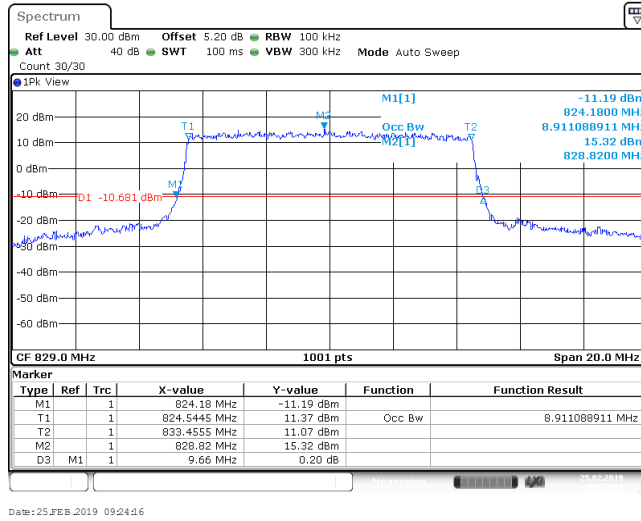


Date: 25 FEB 2019 09:23:58

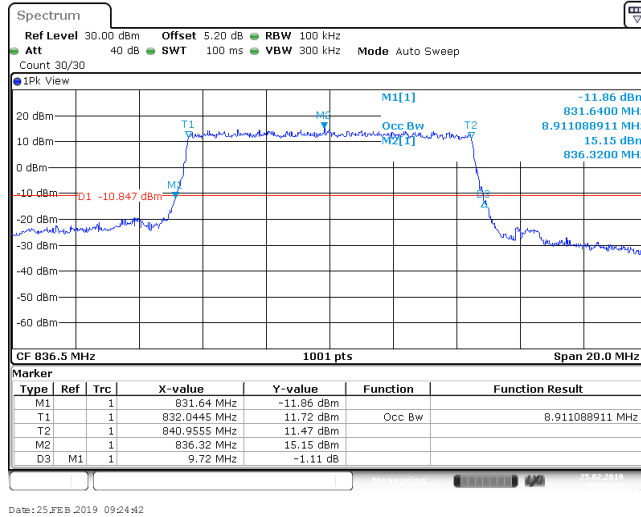
**Band5\_10MHz\_QPSK\_20450\_50RB#0**



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

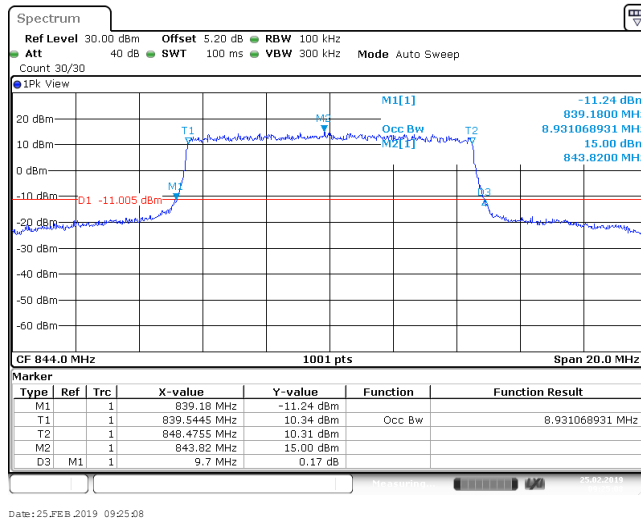


**Band5\_10MHz\_QPSK\_20600\_50RB#0**



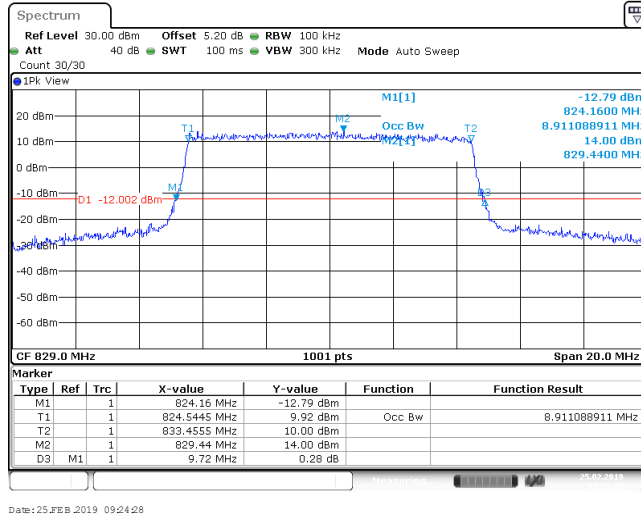
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Date: 25 FEB 2019 09:25:08

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

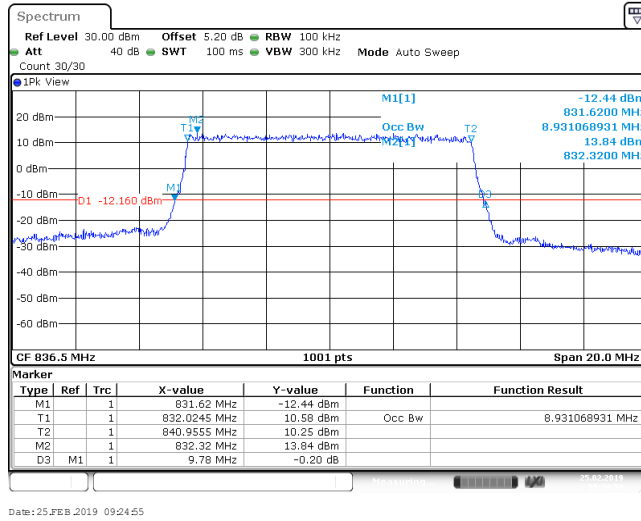


Date: 25 FEB 2019 09:24:28

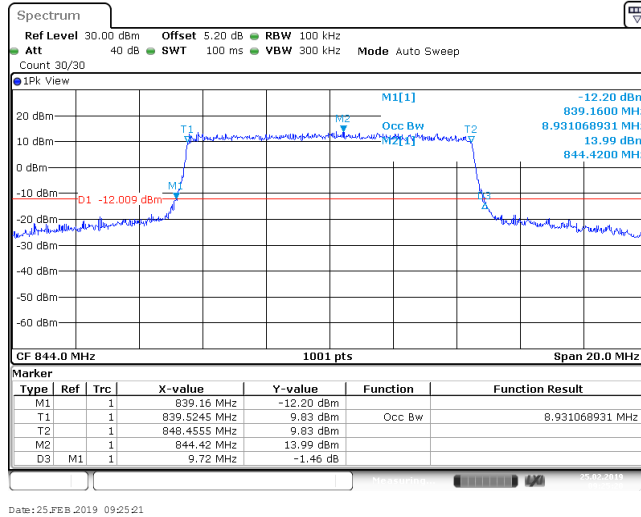
**Band5\_10MHz\_16QAM\_20525\_50RB#0**



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

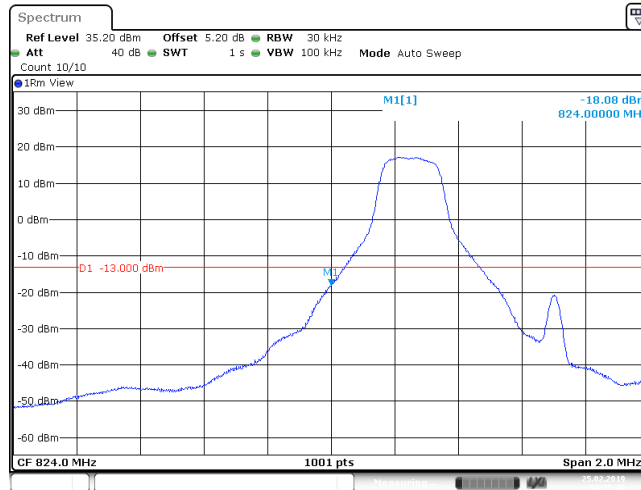


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## 5. Band Edge Compliance

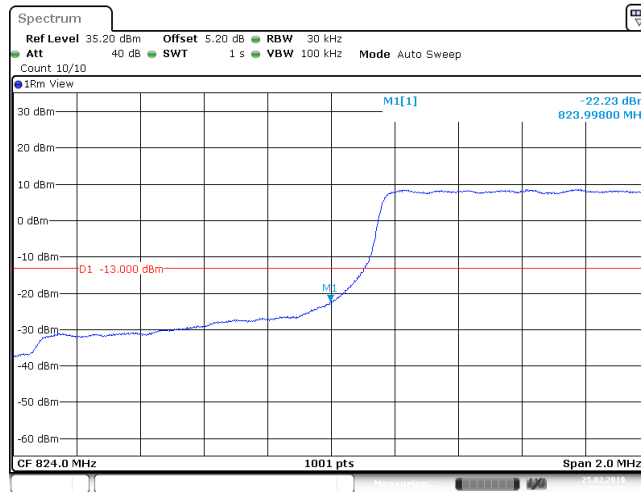
### 5.1. Test Plots

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



Date: 25.FEB.2019 09:25:46

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

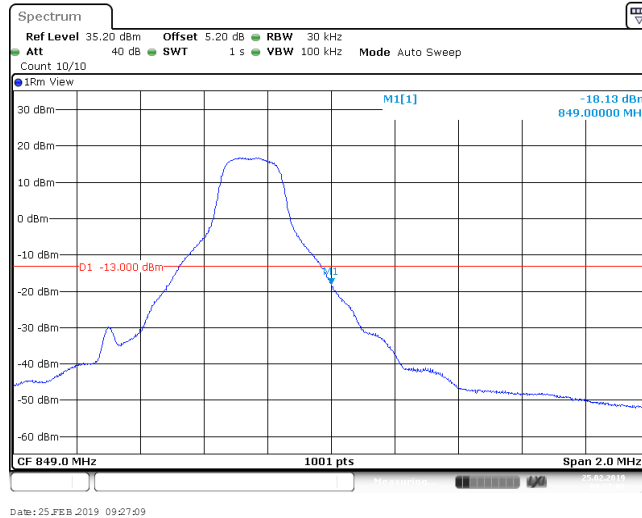


Date: 25.FEB.2019 09:26:25

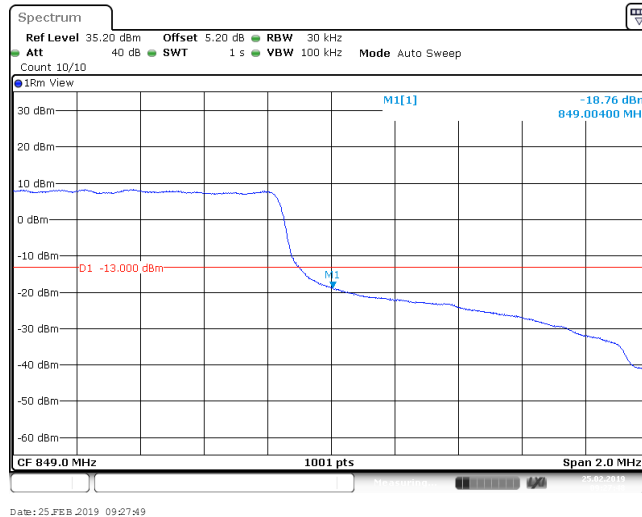
Band5\_1.4MHz\_QPSK\_20643\_1RB#5



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

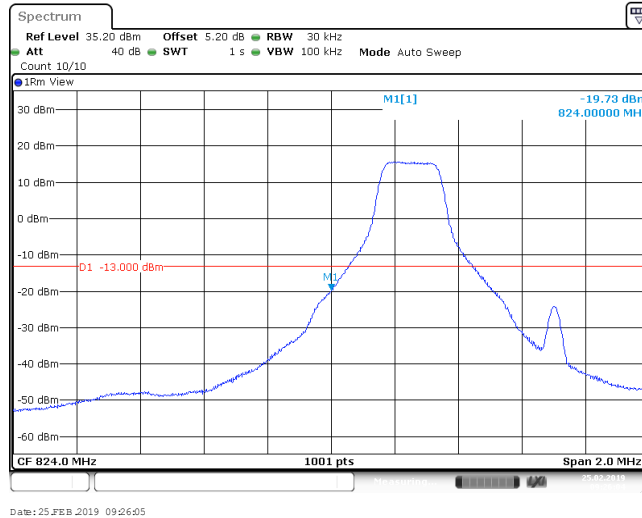


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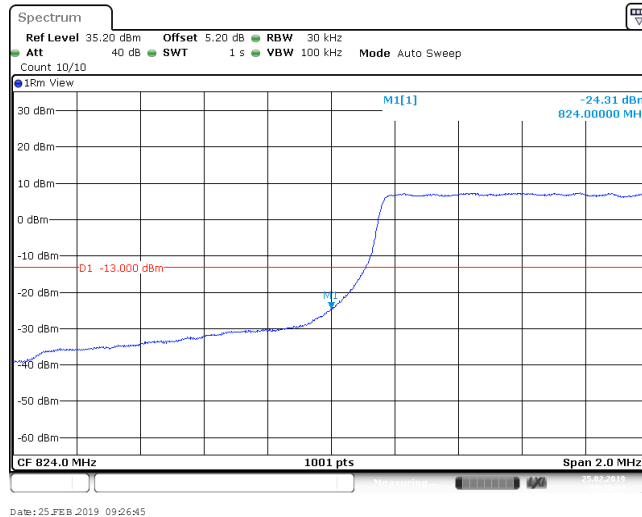


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**Band5\_1.4MHz\_16QAM\_20407\_6RB#0**

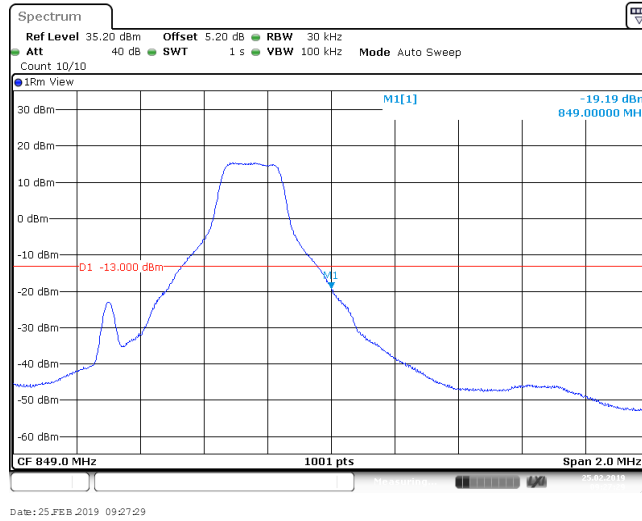


**Band5\_1.4MHz\_16QAM\_20643\_1RB#5**

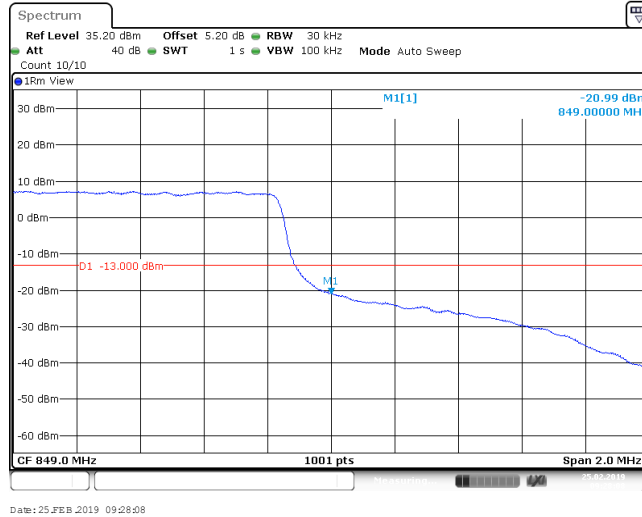


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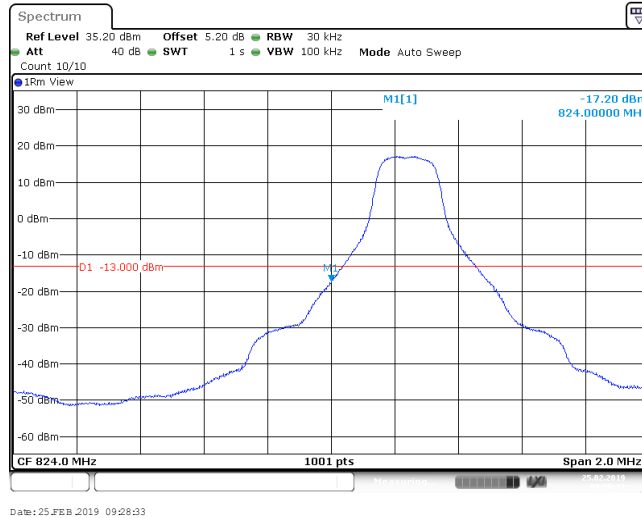
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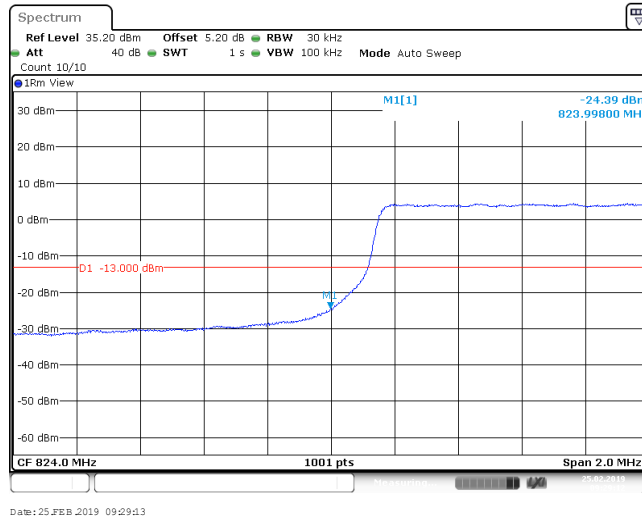
**Band5\_3MHz\_QPSK\_20415\_1RB#0**



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

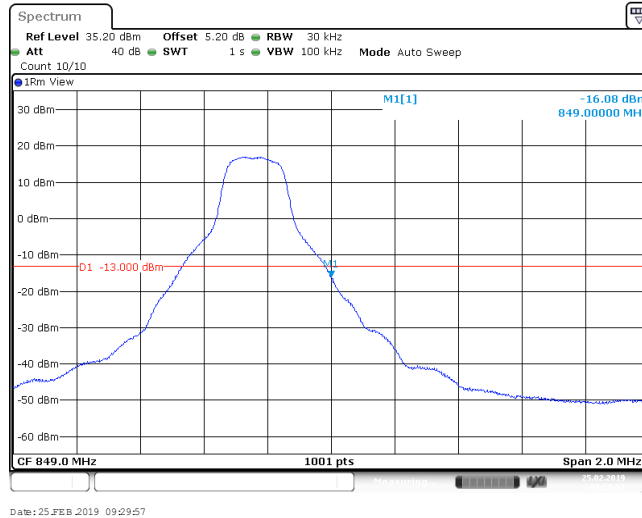


**Band5\_3MHz\_QPSK\_20635\_1RB#14**

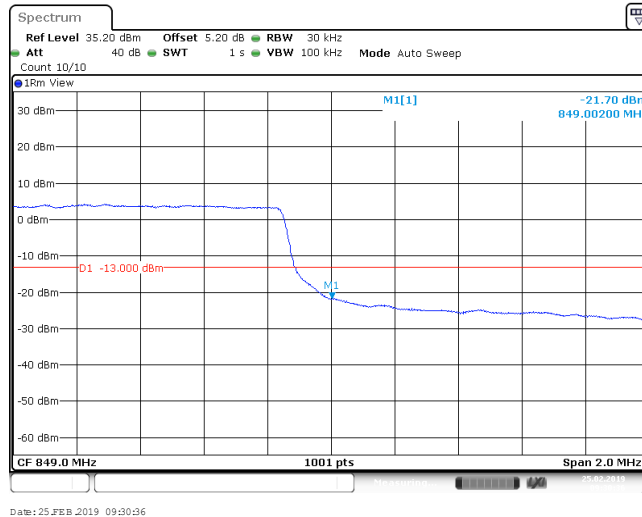


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**Band5\_3MHz\_QPSK\_20635\_15RB#0**



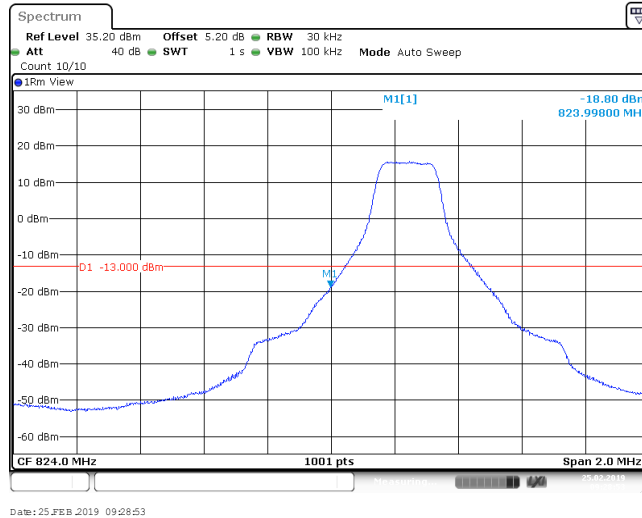
**Band5\_3MHz\_16QAM\_20415\_1RB#0**



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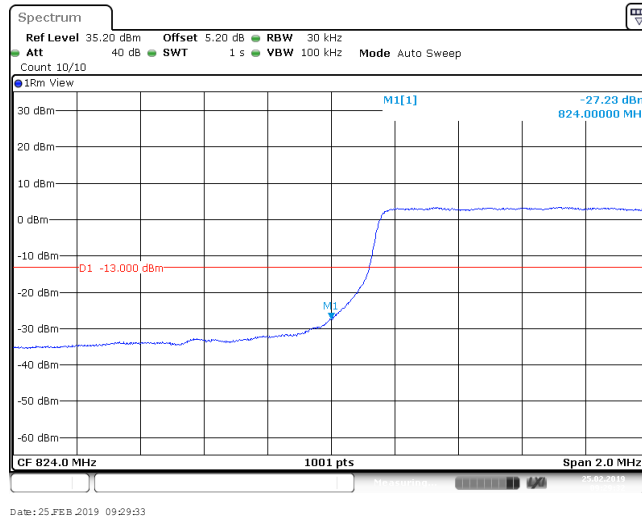
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Date: 25.FEB.2019 09:28:53

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



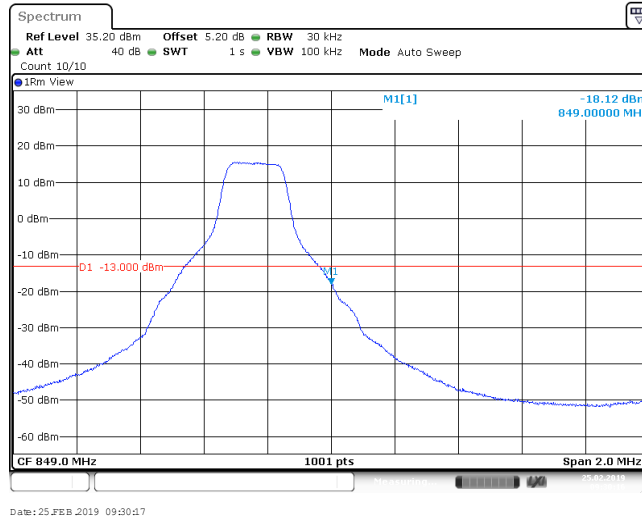
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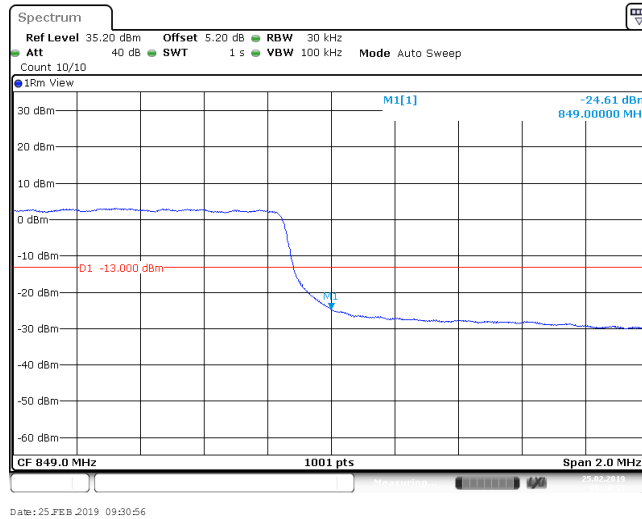


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**Band5\_3MHz\_16QAM\_20635\_15RB#0**

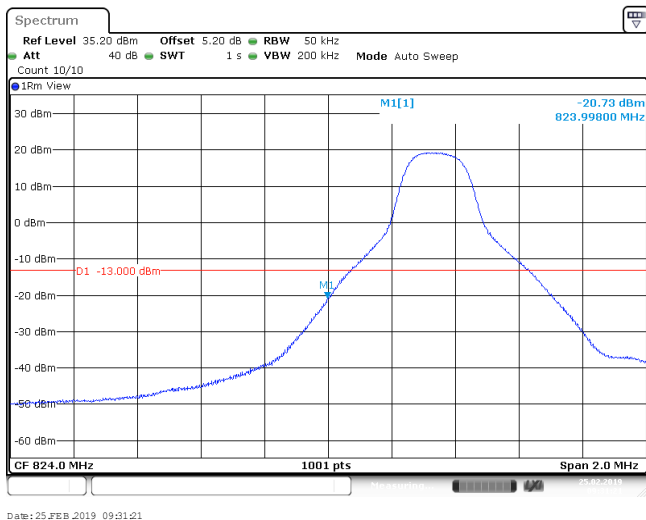


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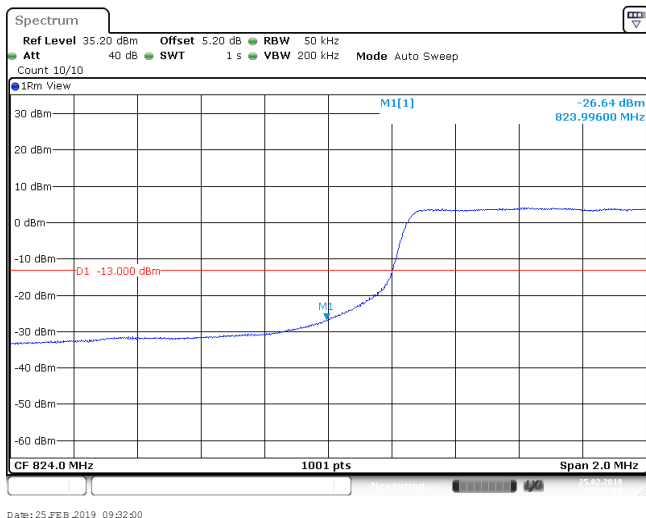


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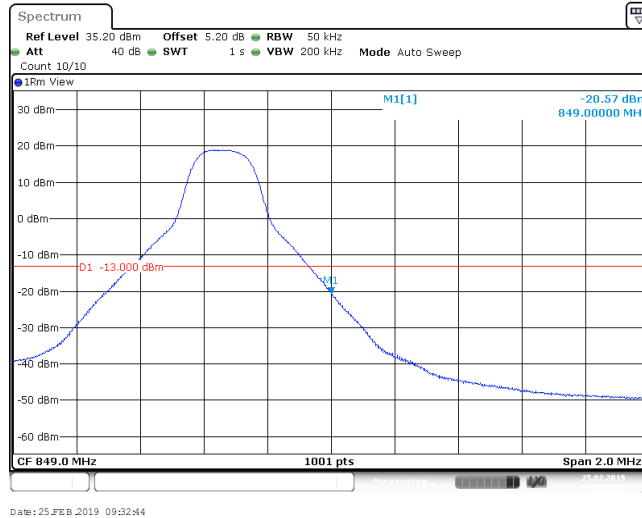
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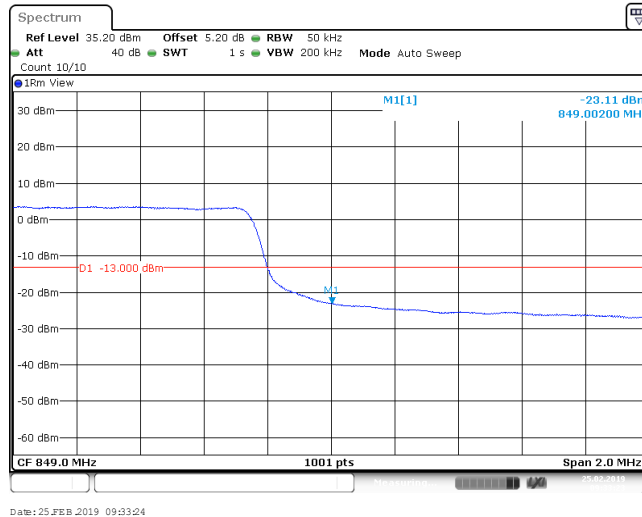
**Band5\_5MHz\_QPSK\_20625\_1RB#24**



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

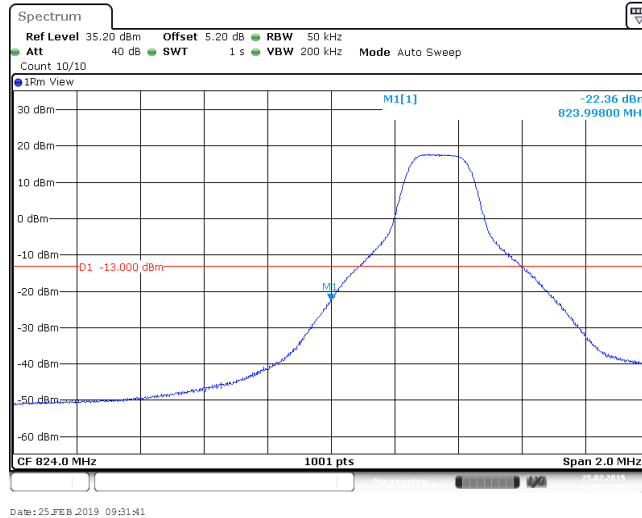


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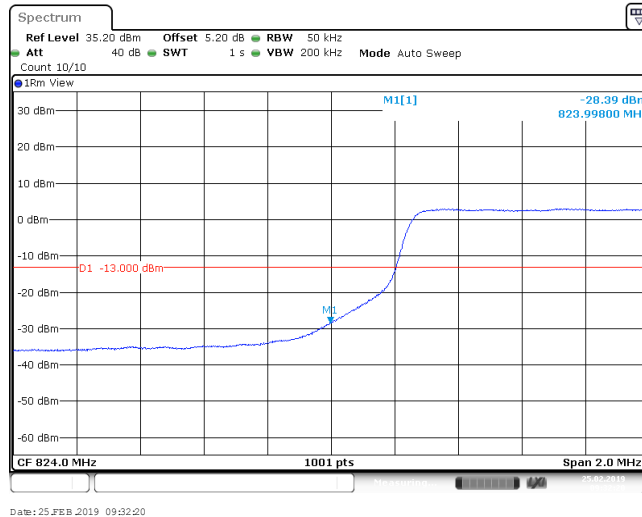


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**Band5\_5MHz\_16QAM\_20425\_25RB#0**

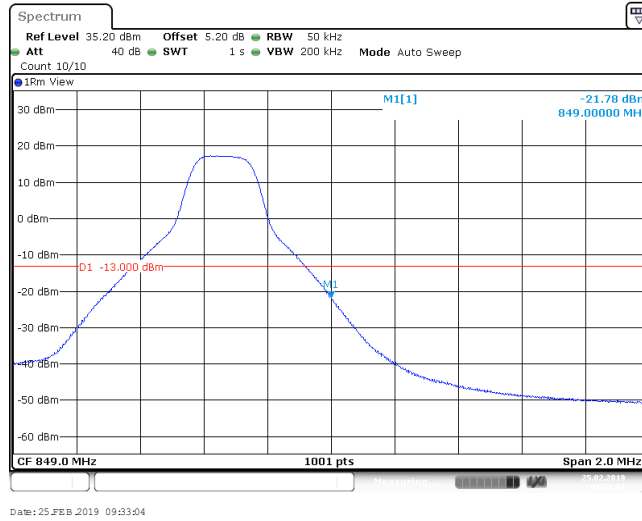


**Band5\_5MHz\_16QAM\_20625\_1RB#24**



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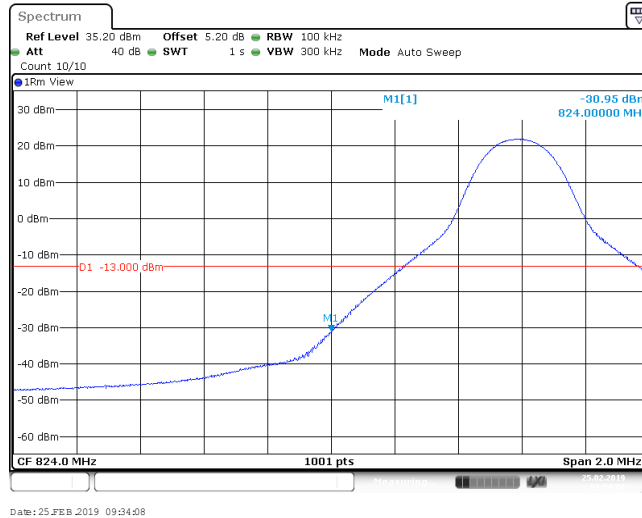
**Band5\_5MHz\_16QAM\_20625\_25RB#0**



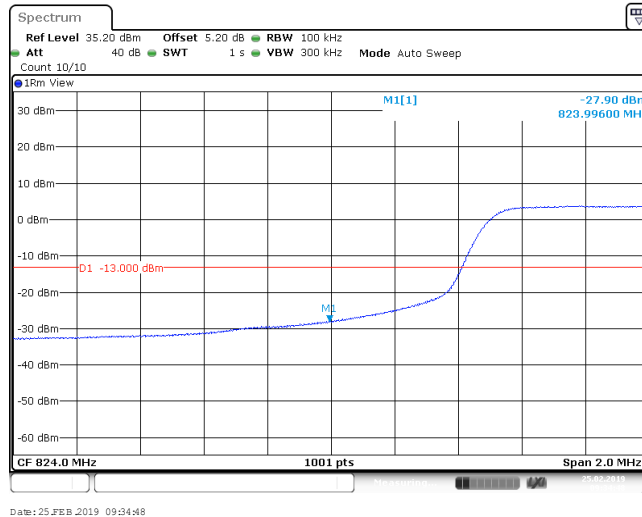
**Band5\_10MHz\_QPSK\_20450\_1RB#0**



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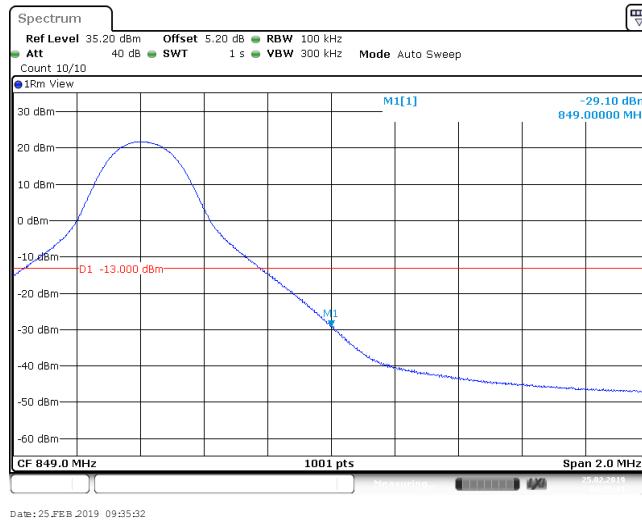
**Band5\_10MHz\_QPSK\_20450\_50RB#0**



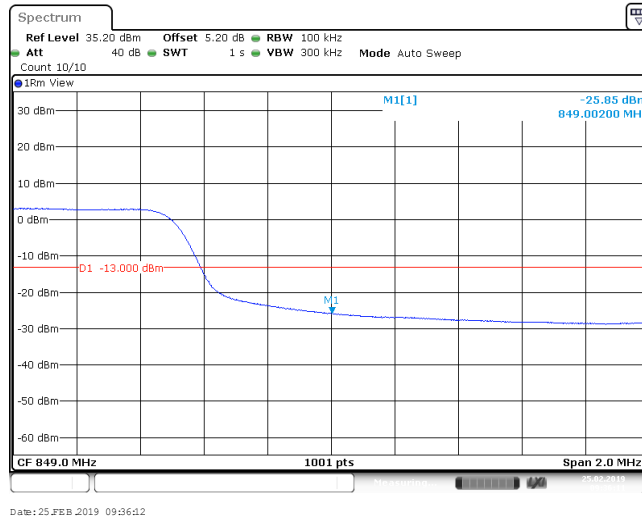
**Band5\_10MHz\_QPSK\_20600\_1RB#49**



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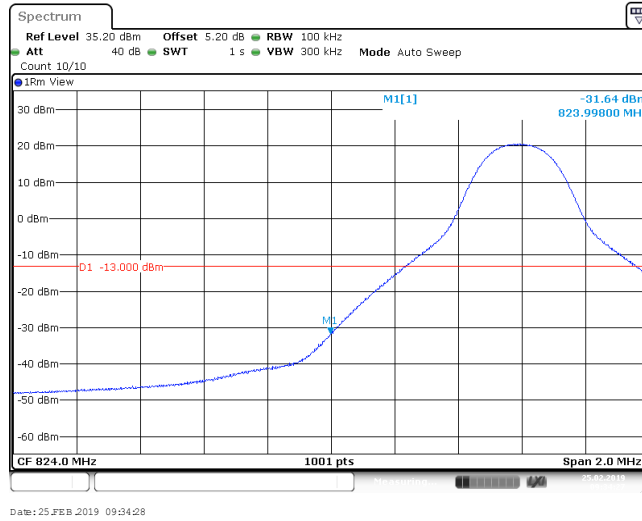
**Band5\_10MHz\_QPSK\_20600\_50RB#0**



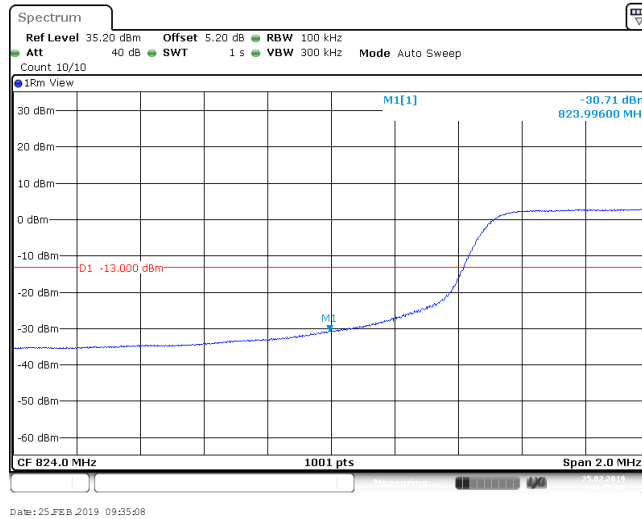
**Band5\_10MHz\_16QAM\_20450\_1RB#0**



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



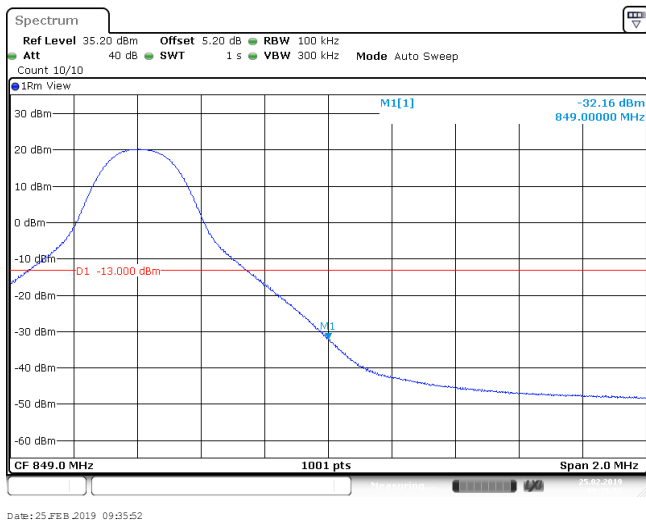
**Band5\_10MHz\_16QAM\_20600\_1RB#49**



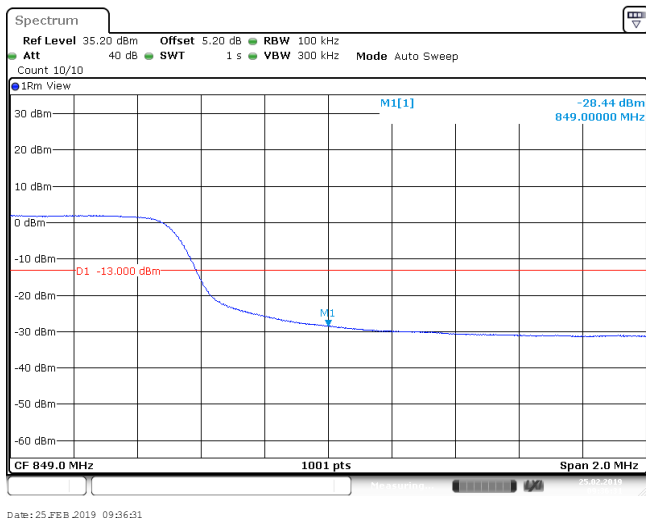
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**Band5\_10MHz\_16QAM\_20600\_50RB#0**



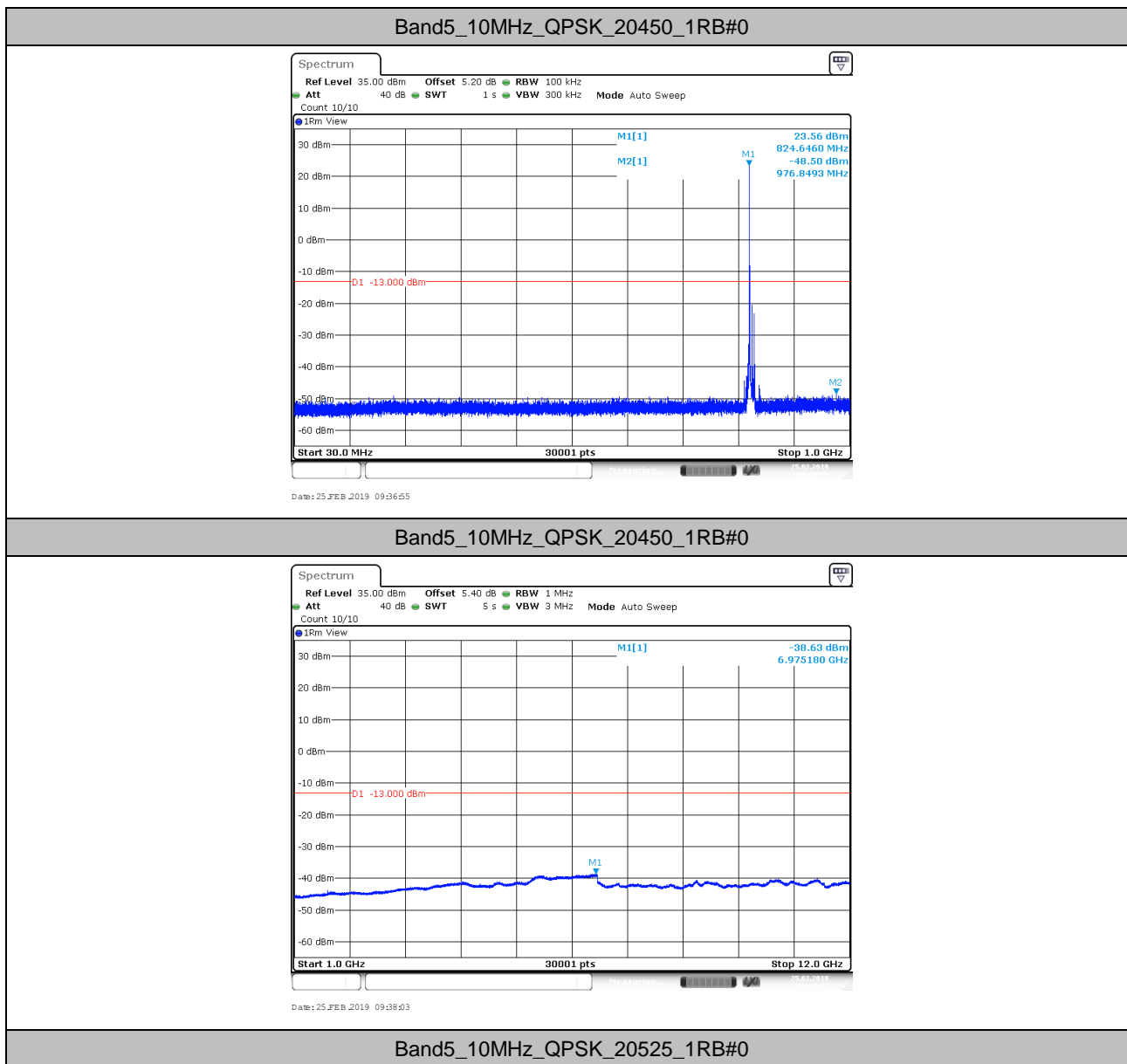
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## 6. Spurious Emission at Antenna Terminal

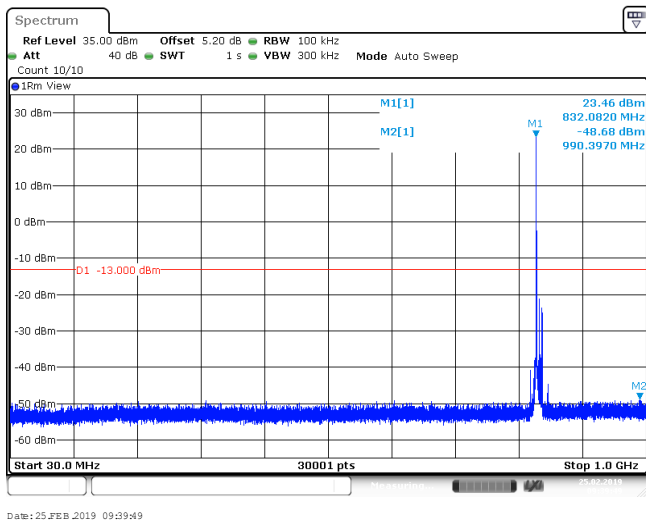
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points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

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

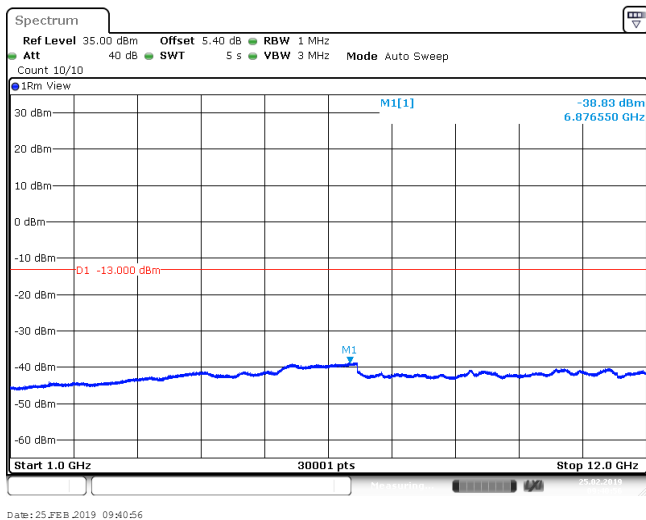
### 6.1. Test Plots



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

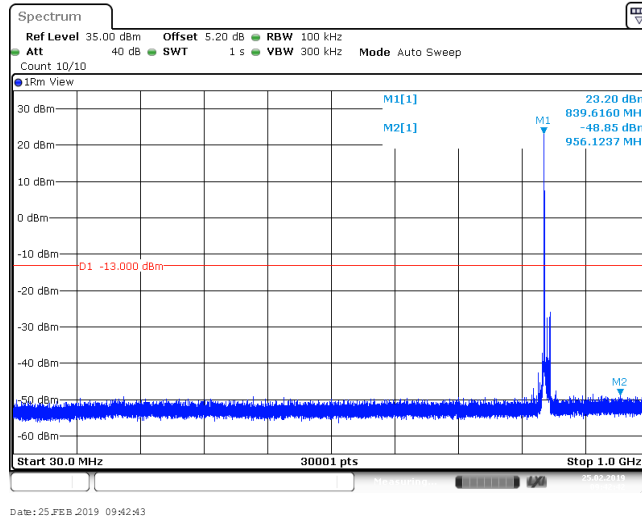


**Band5\_10MHz\_QPSK\_20600\_1RB#0**

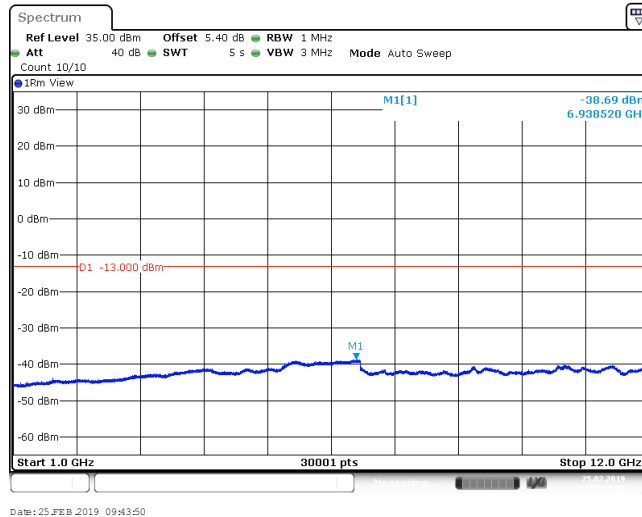


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Band5\_10MHz\_QPSK\_20600\_1RB#0

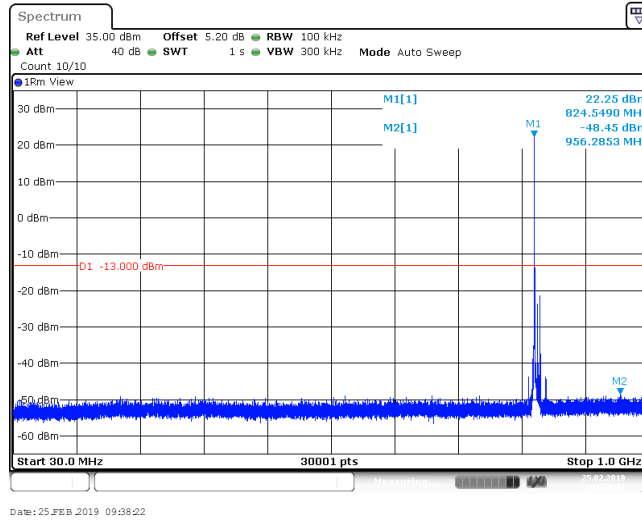


Band5\_10MHz\_16QAM\_20450\_1RB#0

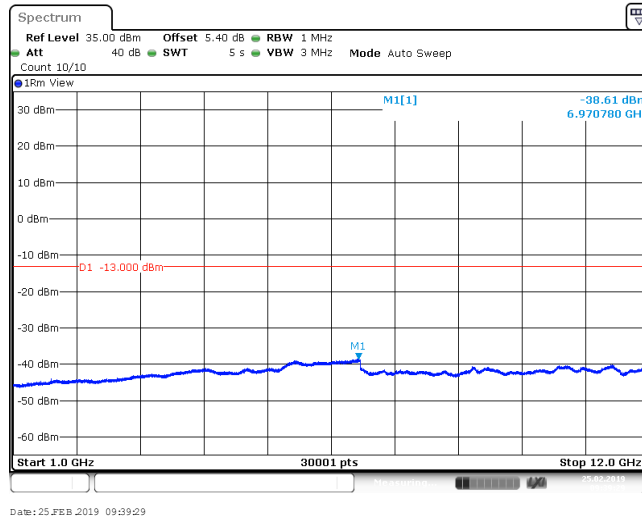


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**Band5\_10MHz\_16QAM\_20450\_1RB#0**

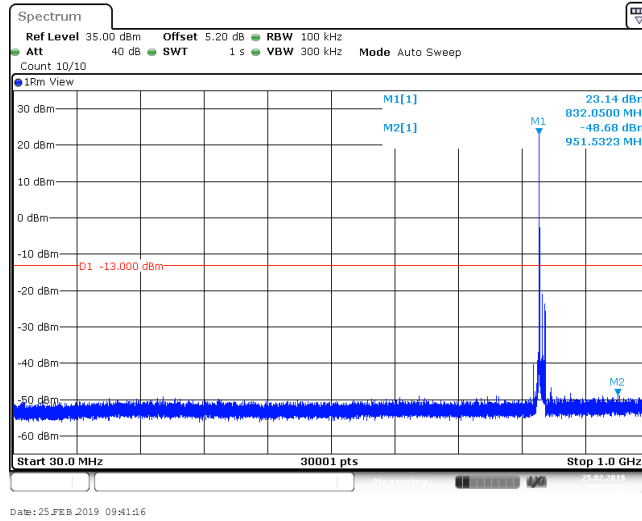


**Band5\_10MHz\_16QAM\_20525\_1RB#0**

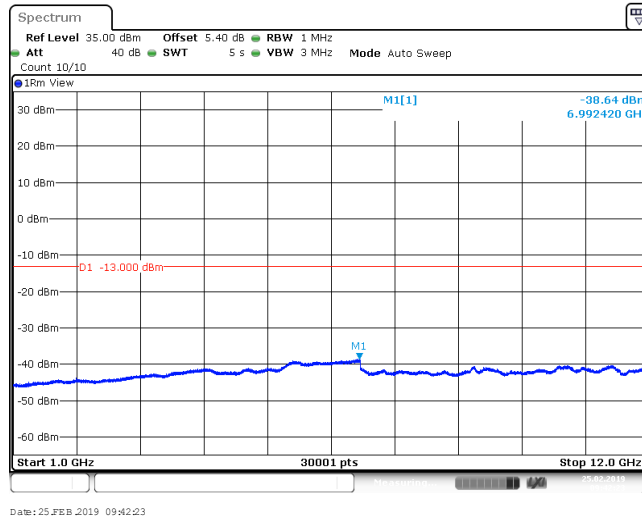


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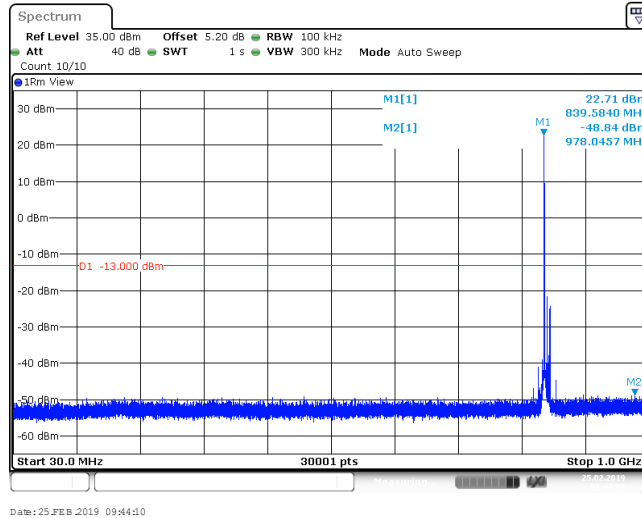
**Band5\_10MHz\_16QAM\_20525\_1RB#0**



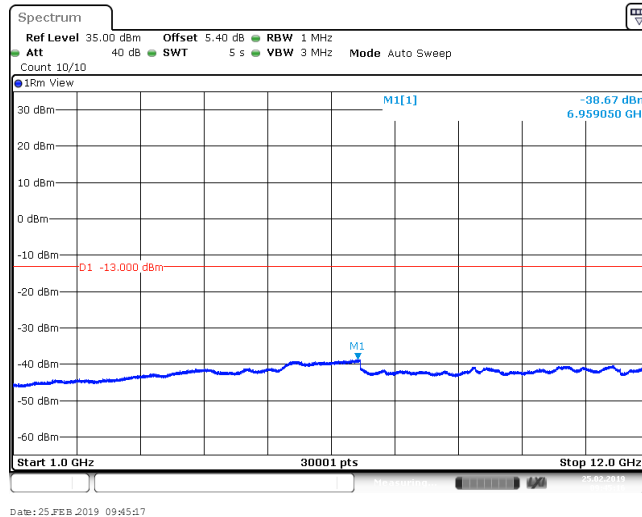
**Band5\_10MHz\_16QAM\_20600\_1RB#0**



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## 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
35.8688	-71.12	-13.00	58.12	Vertical
114.1517	-64.89	-13.00	51.89	Vertical
410.2105	-68.36	-13.00	55.36	Vertical
1653.7307	-42.34	-13.00	29.34	Vertical
2994.7990	-56.60	-13.00	43.60	Vertical
8587.9863	-50.34	-13.00	37.34	Vertical
40.7190	-64.29	-13.00	51.29	Horizontal
247.9214	-68.36	-13.00	55.36	Horizontal
992.1426	-55.53	-13.00	42.53	Horizontal
1653.3307	-46.33	-13.00	33.33	Horizontal
2480.6961	-56.94	-13.00	43.94	Horizontal
8823.9941	-50.42	-13.00	37.42	Horizontal

##### 7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
31.3096	-70.57	-13.00	57.57	Vertical
110.1260	-65.36	-13.00	52.36	Vertical
422.7726	-67.02	-13.00	54.02	Vertical
1668.5337	-42.91	-13.00	29.91	Vertical
2999.5999	-56.61	-13.00	43.61	Vertical
8790.9930	-50.19	-13.00	37.19	Vertical
40.2825	-64.37	-13.00	51.37	Horizontal
238.5604	-68.38	-13.00	55.38	Horizontal
384.8437	-67.96	-13.00	54.96	Horizontal
1668.5337	-46.23	-13.00	33.23	Horizontal
2503.1006	-56.16	-13.00	43.16	Horizontal
8824.1941	-50.39	-13.00	37.39	Horizontal



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**7.1.1.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
36.1598	-71.32	-13.00	58.32	Vertical
110.7565	-64.34	-13.00	51.34	Vertical
324.2642	-70.07	-13.00	57.07	Vertical
1688.5377	-44.63	-13.00	31.63	Vertical
2992.7986	-56.61	-13.00	43.61	Vertical
8581.5861	-50.25	-13.00	37.25	Vertical
40.8160	-63.82	-13.00	50.82	Horizontal
249.7160	-68.11	-13.00	55.11	Horizontal
671.3476	-62.49	-13.00	49.49	Horizontal
1688.5377	-48.60	-13.00	35.60	Horizontal
2699.9400	-56.39	-13.00	43.39	Horizontal
8661.9887	-51.19	-13.00	38.19	Horizontal

**Remark:**

The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.

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



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## 8. Frequency Stability

### 8.1. Frequency Vs Voltage

Voltage										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	VL	NT	-0.70	-0.000844	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	-0.50	-0.000603	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	-1.30	-0.001568	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	0.00	0.000000	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-1.60	-0.001913	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-0.10	-0.000120	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	-0.50	-0.000592	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	-2.20	-0.002607	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	-1.20	-0.001422	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VL	NT	-1.20	-0.001448	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VN	NT	-0.30	-0.000362	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VH	NT	-0.60	-0.000724	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VL	NT	-1.80	-0.002152	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VN	NT	-1.10	-0.001315	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VH	NT	-0.30	-0.000359	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VL	NT	-1.20	-0.001422	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VN	NT	-1.00	-0.001185	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VH	NT	-0.80	-0.000948	±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	-1.10	-0.001327	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	-1.00	-0.001206	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	-0.40	-0.000483	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	0.50	0.000603	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	0.10	0.000121	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	0.70	0.000844	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	-1.20	-0.001448	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	-0.50	-0.000603	±2.5	PASS



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Band5	10MHz	QPSK	20525	50RB#0	NV	-30	-1.80	-0.002152	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-1.50	-0.001793	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-1.20	-0.001435	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-1.40	-0.001674	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-1.80	-0.002152	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	0.20	0.000239	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	0.10	0.000120	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-0.30	-0.000359	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	-1.50	-0.001777	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	-0.20	-0.000237	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	-0.70	-0.000829	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	-1.10	-0.001303	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	-1.50	-0.001777	±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	40	-0.50	-0.000592	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	-1.00	-0.001185	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-30	-0.20	-0.000241	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-20	-1.30	-0.001568	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	0	-0.60	-0.000724	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	10	-0.90	-0.001086	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	20	0.30	0.000362	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	30	0.20	0.000241	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	40	-0.20	-0.000241	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	50	-1.90	-0.002292	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-30	-1.10	-0.001315	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-20	-0.80	-0.000956	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	0	-1.30	-0.001554	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	10	0.60	0.000717	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	20	-0.50	-0.000598	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	30	-0.80	-0.000956	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	40	0.00	0.000000	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	50	-0.60	-0.000717	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-30	-1.00	-0.001185	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-20	-0.90	-0.001066	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	0	0.10	0.000118	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	10	-1.00	-0.001185	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	20	-0.70	-0.000829	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	30	-0.70	-0.000829	±2.5	PASS



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Band5	10MHz	16QAM	20600	50RB#0	NV	40	0.20	0.000237	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	50	0.60	0.000711	±2.5	PASS

The End



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