

# Appendix B

## E-UTRA Band 13



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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
Band13	5MHz	QPSK	23205	1RB#12	23.69	20.04	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	24.04	20.39	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#0	23.69	20.04	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#0	22.76	19.11	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#6	22.80	19.15	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#13	22.85	19.2	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.77	19.12	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.79	20.14	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.66	20.01	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	24.06	20.41	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#0	22.77	19.12	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#6	22.84	19.19	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#13	22.95	19.3	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.99	19.34	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	24.11	20.46	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	24.08	20.43	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.55	19.9	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#6	22.69	19.04	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#0	22.79	19.14	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#13	23.03	19.38	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.95	19.3	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.83	19.18	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.02	18.37	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.33	18.68	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#13	21.81	18.16	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#6	21.83	18.18	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#0	21.67	18.02	34.77	PASS



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Band13	5MHz	16QAM	23205	25RB#0	21.94	18.29	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.37	18.72	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	23.02	19.37	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.23	18.58	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#0	21.86	18.21	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#6	22.01	18.36	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#13	21.88	18.23	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.96	18.31	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.41	18.76	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.85	19.2	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.65	19	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#13	21.88	18.23	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#0	21.86	18.21	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#6	21.63	17.98	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.96	18.31	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	24.05	20.4	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.74	20.09	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.86	20.21	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#0	22.97	19.32	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#12	22.74	19.09	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#25	22.86	19.21	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.99	19.34	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.61	18.96	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.68	19.03	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.86	19.21	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#0	21.81	18.16	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#12	21.86	18.21	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#25	21.80	18.15	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.93	18.28	34.77	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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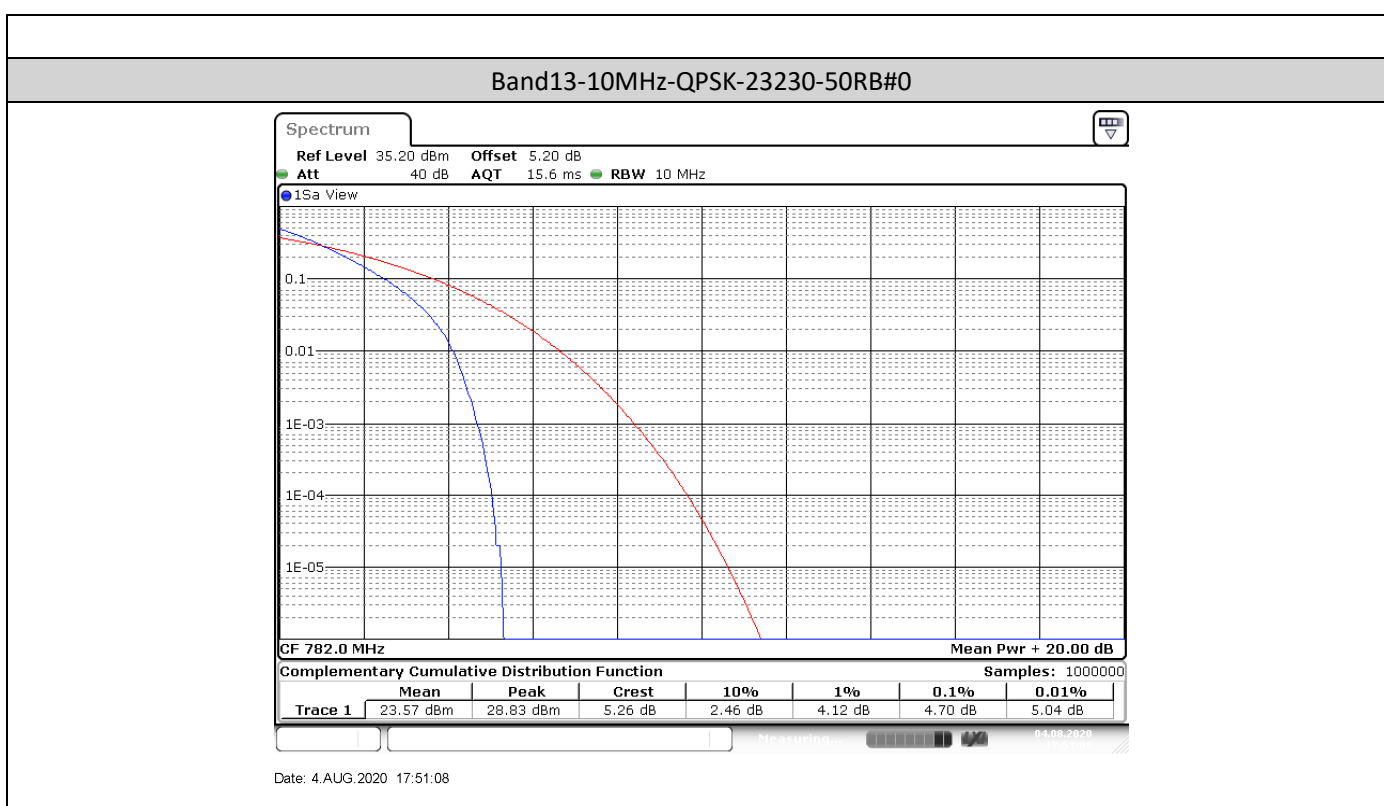


## 2. Peak-to-Average Ratio (CCDF)

### 2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	4.70	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	5.68	13	PASS

### 2.2. Test Plots

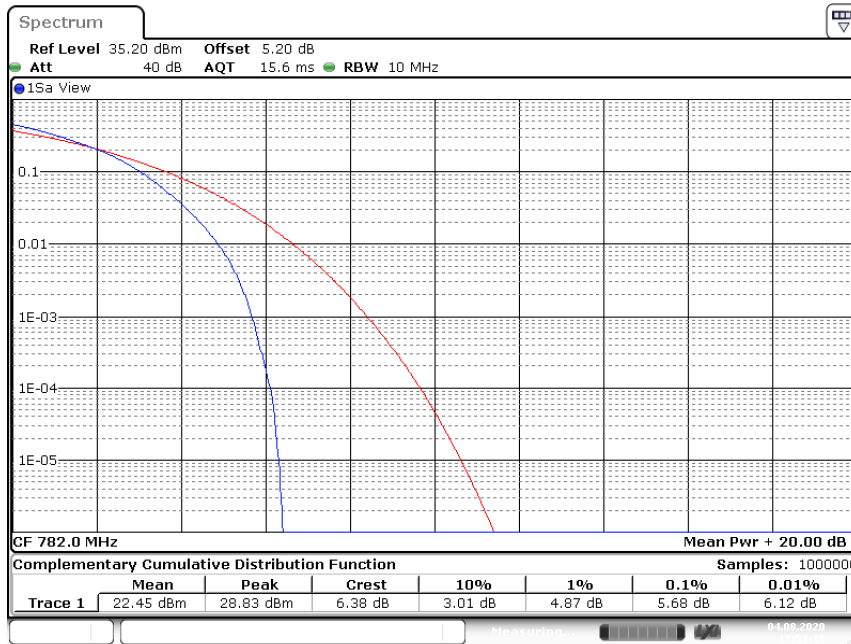


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**Band13-10MHz-16QAM-23230-50RB#0**



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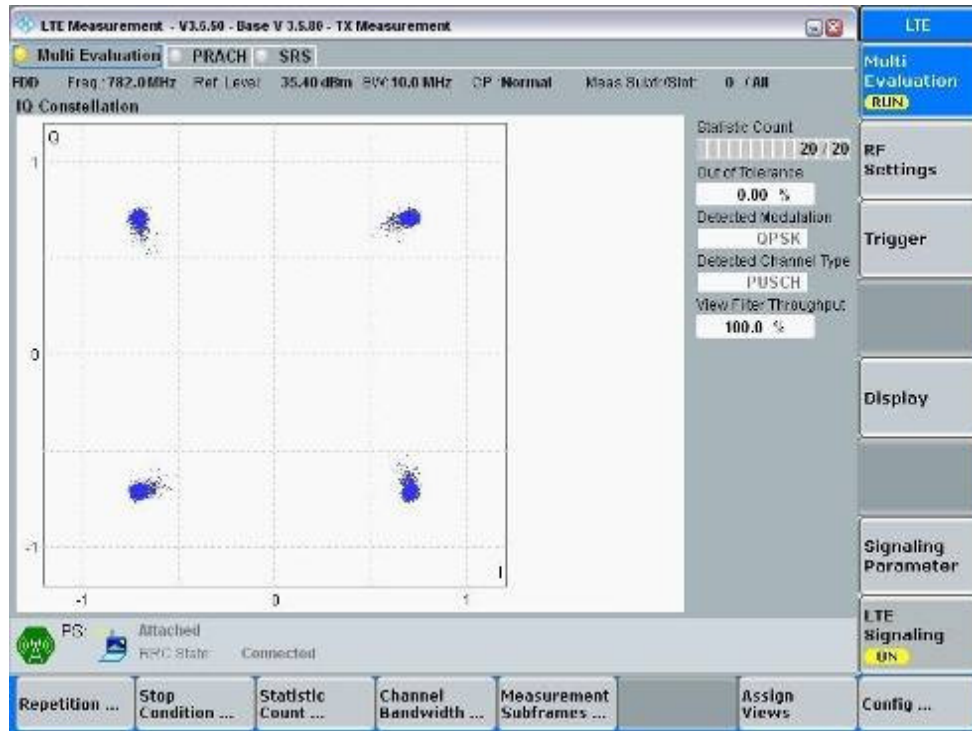


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### 3. Modulation Characteristics

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

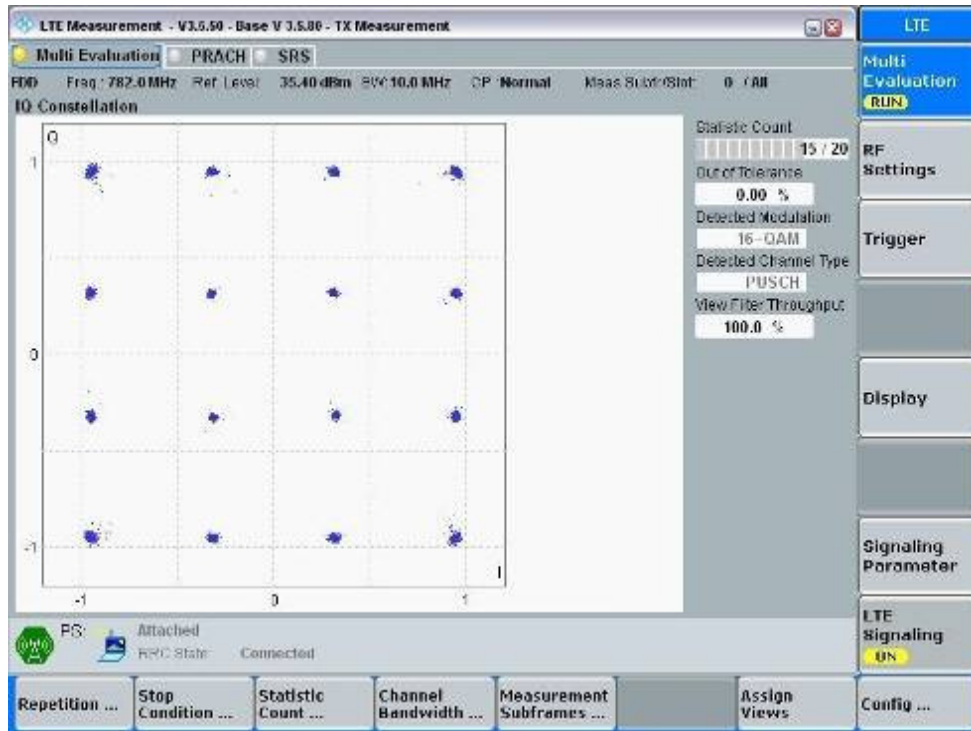
##### 3.1.1. Test Channel = MCH



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

#### 3.2.1. Test Channel = MCH



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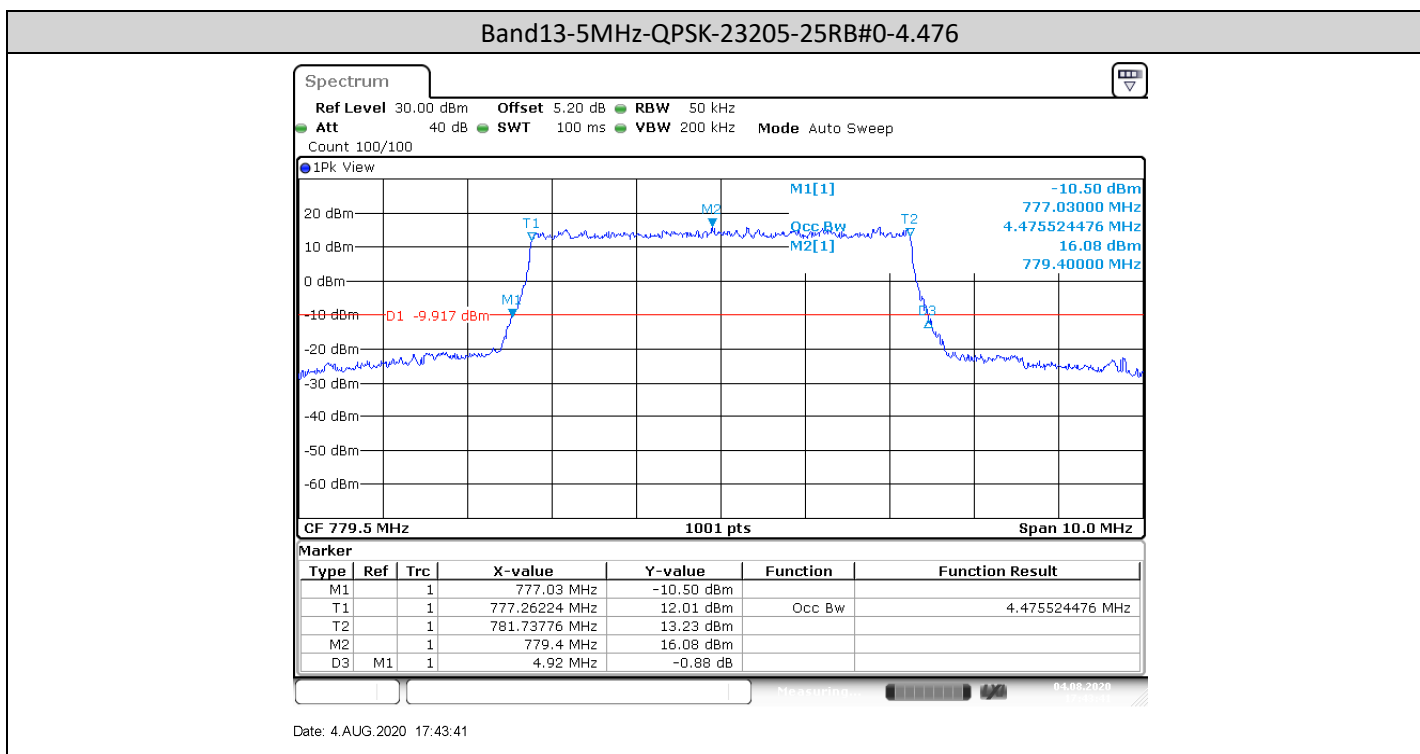


## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.476	4.920	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.466	4.930	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.476	4.910	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.486	4.970	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.476	4.950	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.486	4.960	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.911	9.720	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.911	9.740	PASS

### 4.2. Test Plots



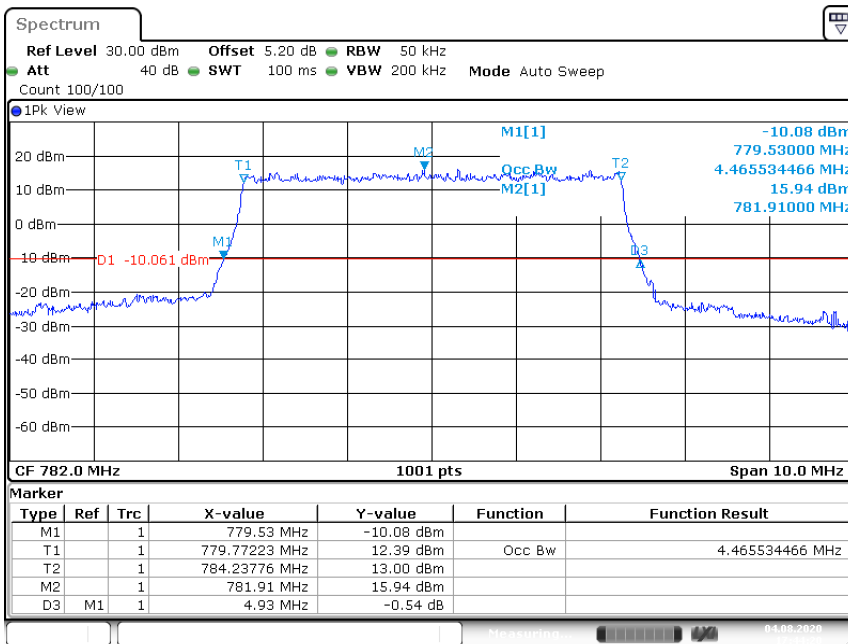
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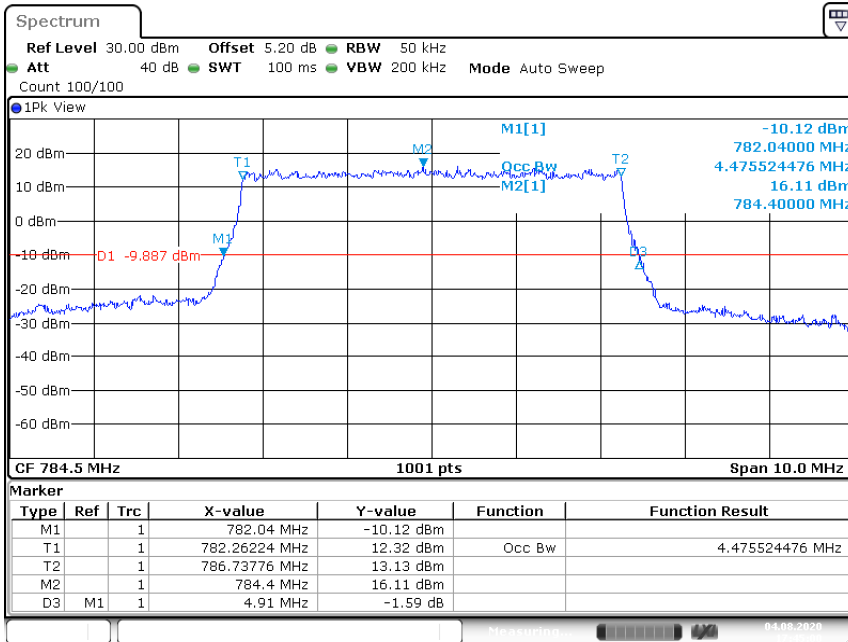


Band13-5MHz-QPSK-23230-25RB#0-4.466



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Band13-5MHz-QPSK-23255-25RB#0-4.476



Date: 4.AUG.2020 17:45:00



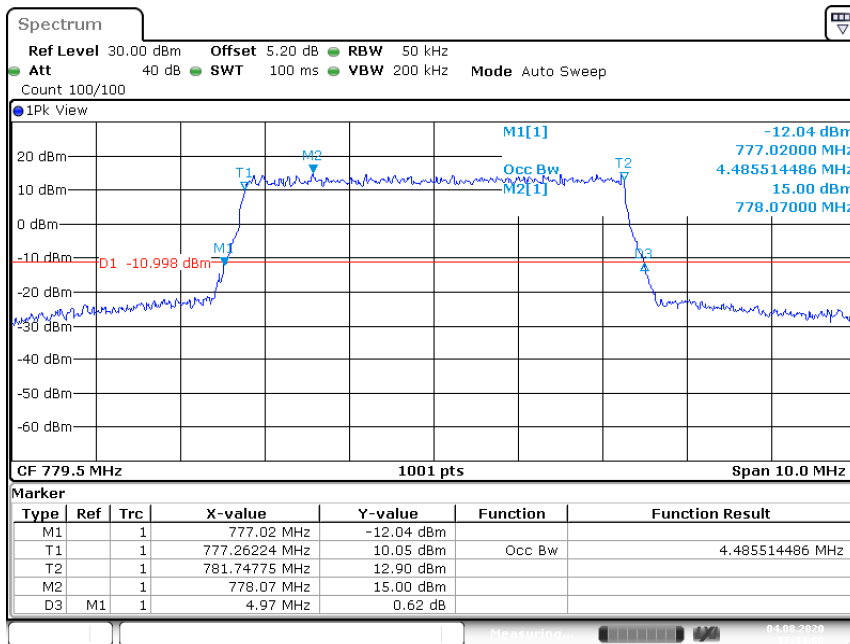
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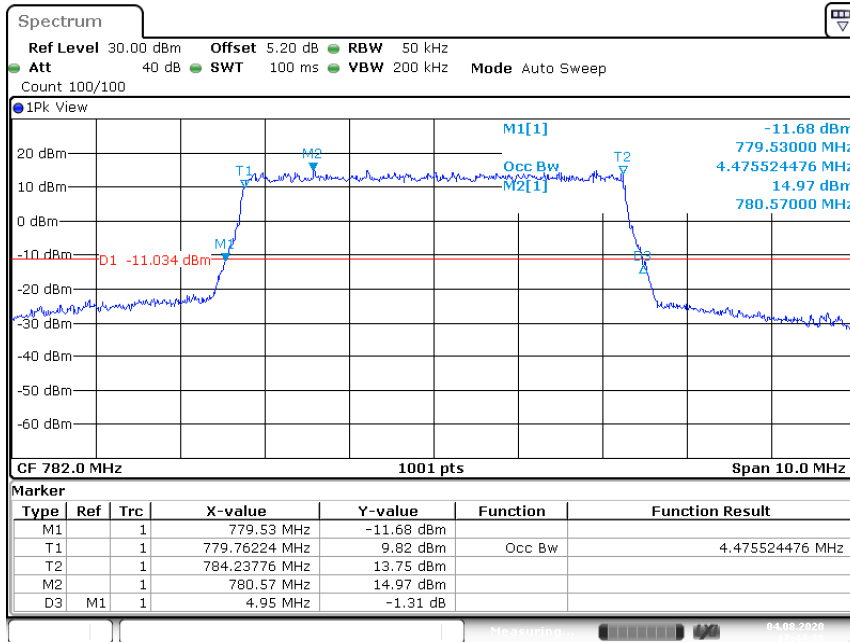
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Band13-5MHz-16QAM-23230-25RB#0-4.476

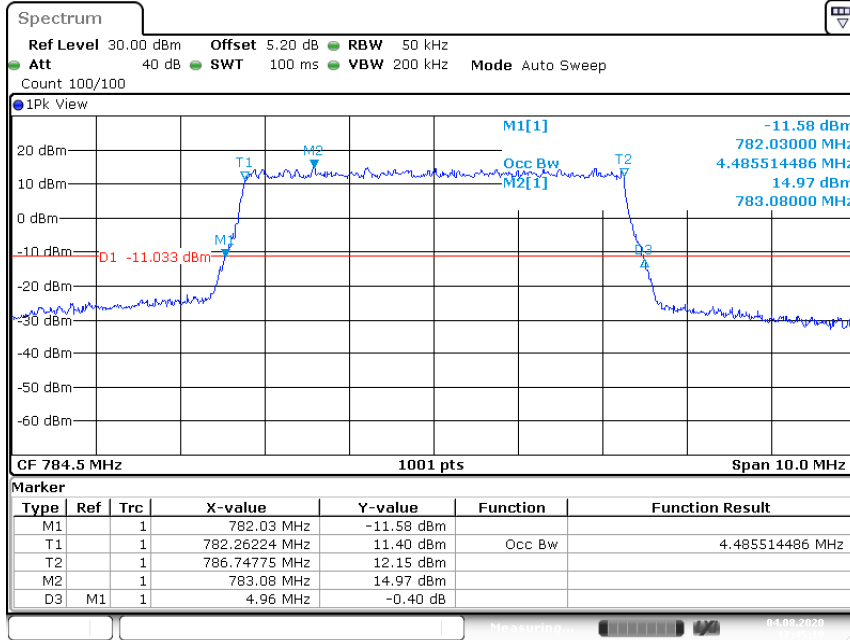


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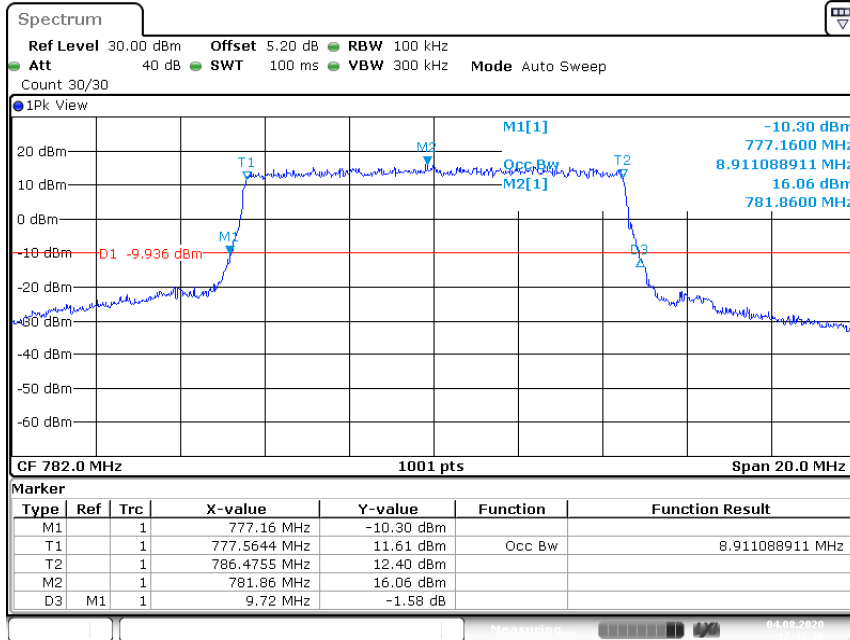
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012063 f (86-755) 26710694 www.sgs.com.cn  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012063 f (86-755) 26710694 sgs.china@sgs.com

**Band13-5MHz-16QAM-23255-25RB#0-4.486**



Date: 4.AUG.2020 17:45:20

**Band13-10MHz-QPSK-23230-50RB#0-8.911**

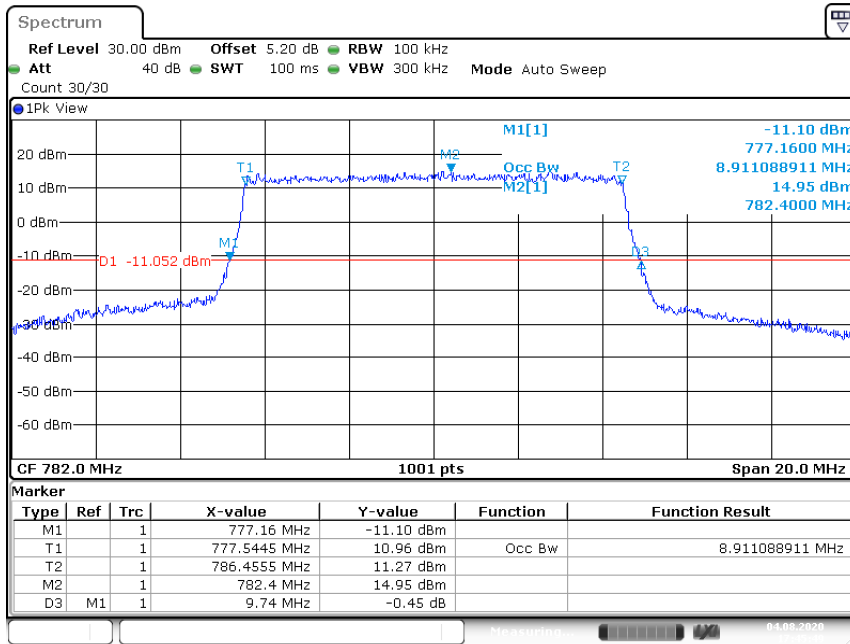


Date: 4.AUG.2020 17:45:37



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**Band13-10MHz-16QAM-23230-50RB#0-8.911**



Date: 4.AUG.2020 17:45:49



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## 5. Band Edge Compliance

### 5.1. Test Result

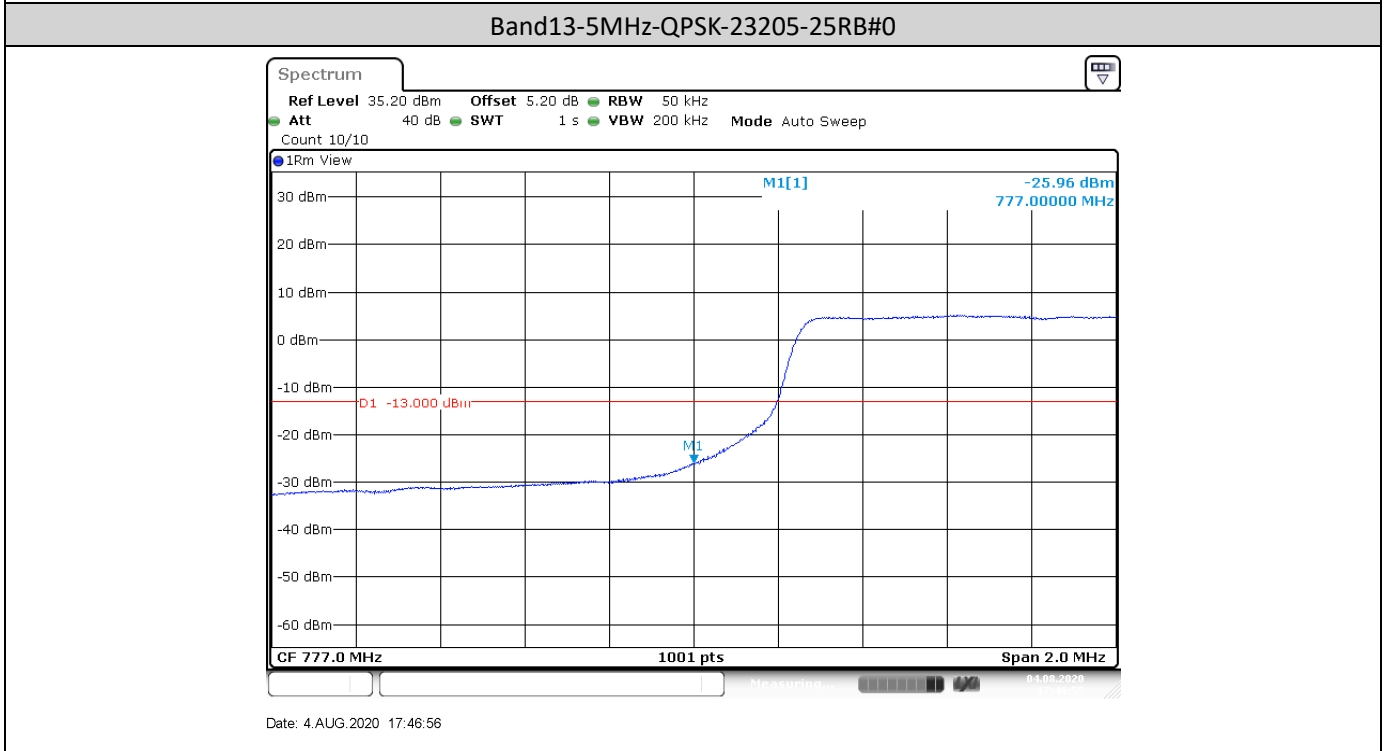
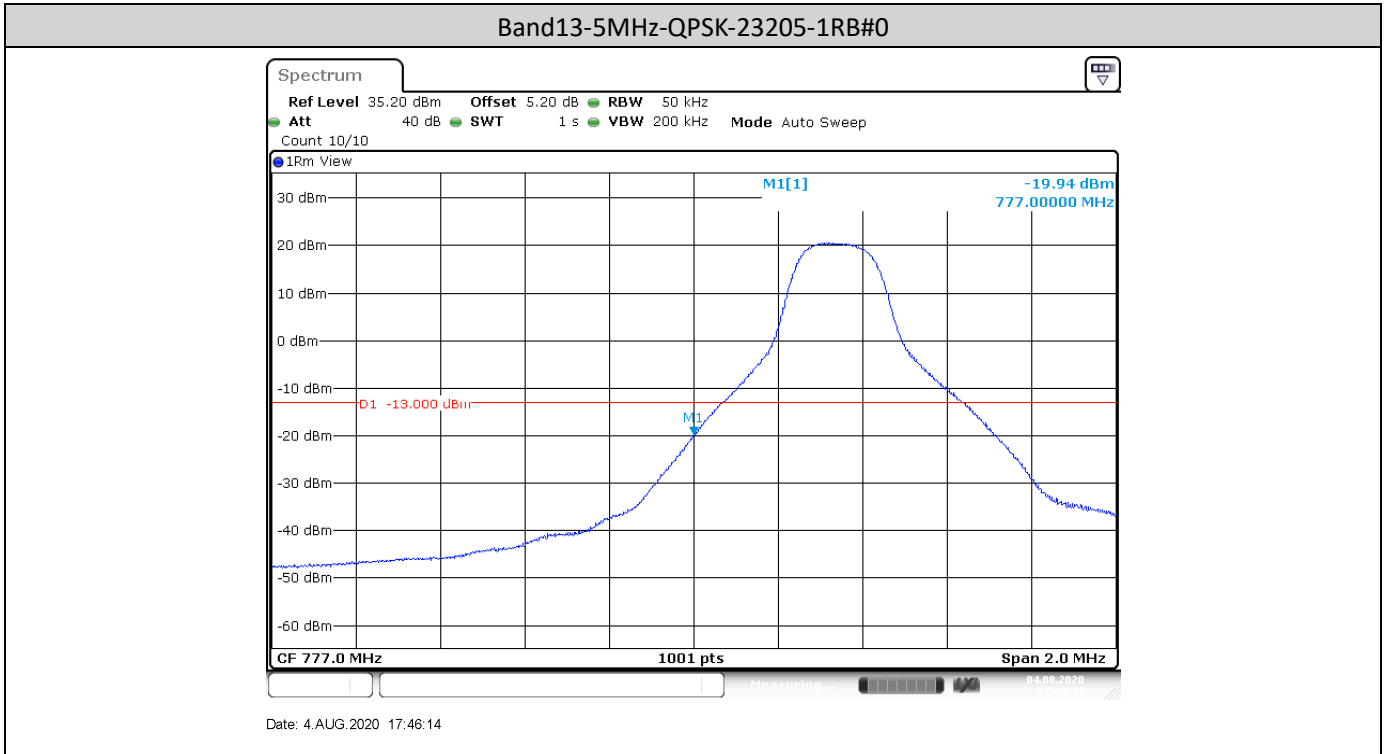
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	-19.94	PASS
Band13	5MHz	QPSK	23205	25RB#0	-25.96	PASS
Band13	5MHz	QPSK	23255	1RB#24	-20.06	PASS
Band13	5MHz	QPSK	23255	25RB#0	-27.49	PASS
Band13	5MHz	16QAM	23205	1RB#0	-21.44	PASS
Band13	5MHz	16QAM	23205	25RB#0	-27.39	PASS
Band13	5MHz	16QAM	23255	1RB#24	-21.08	PASS
Band13	5MHz	16QAM	23255	25RB#0	-28.32	PASS
Band13	10MHz	QPSK	23230_Left	1RB#0	-30.00	PASS
Band13	10MHz	QPSK	23230_Right	1RB#49	-29.84	PASS
Band13	10MHz	QPSK	23230_Right	50RB#0	-28.41	PASS
Band13	10MHz	16QAM	23230_Left	1RB#0	-30.98	PASS
Band13	10MHz	16QAM	23230_Right	1RB#49	-31.75	PASS
Band13	10MHz	16QAM	23230_Right	50RB#0	-30.51	PASS



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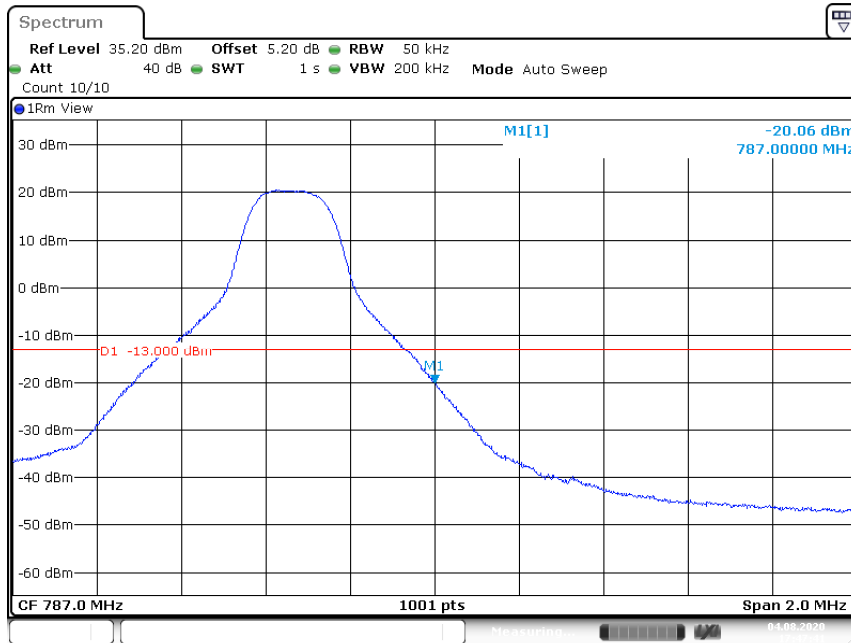
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## 5.2. Test Plots



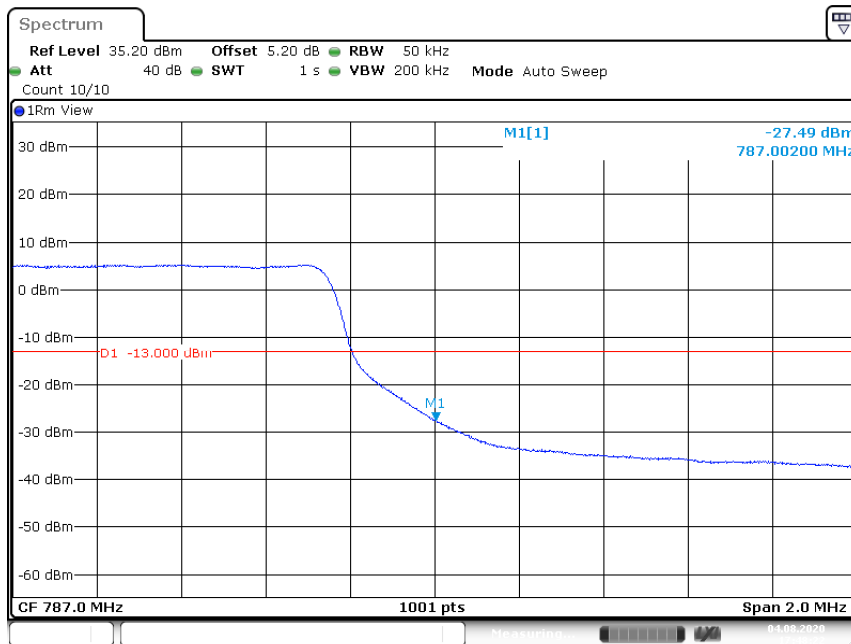
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**Band13-5MHz-QPSK-23255-1RB#24**



Date: 4.AUG.2020 17:47:41

**Band13-5MHz-QPSK-23255-25RB#0**



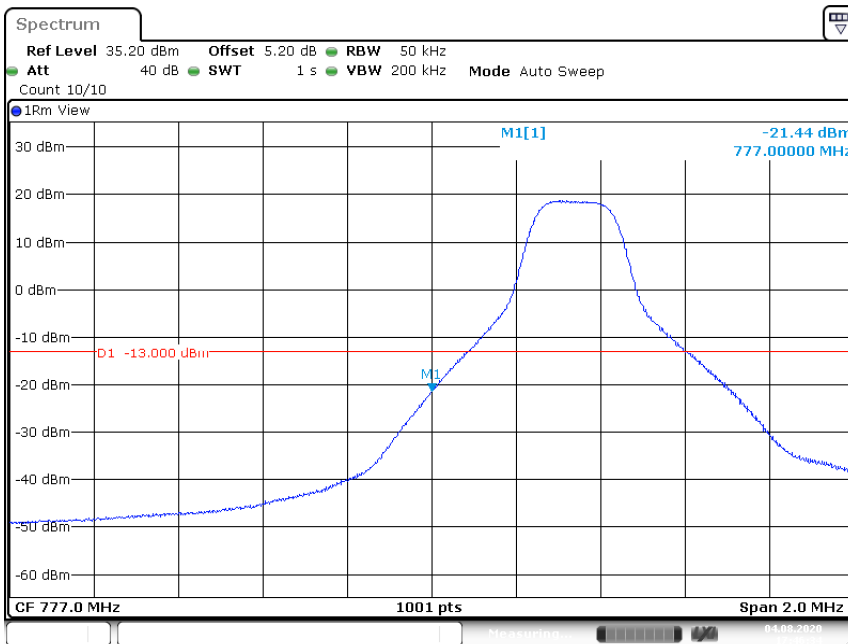
Date: 4.AUG.2020 17:48:22



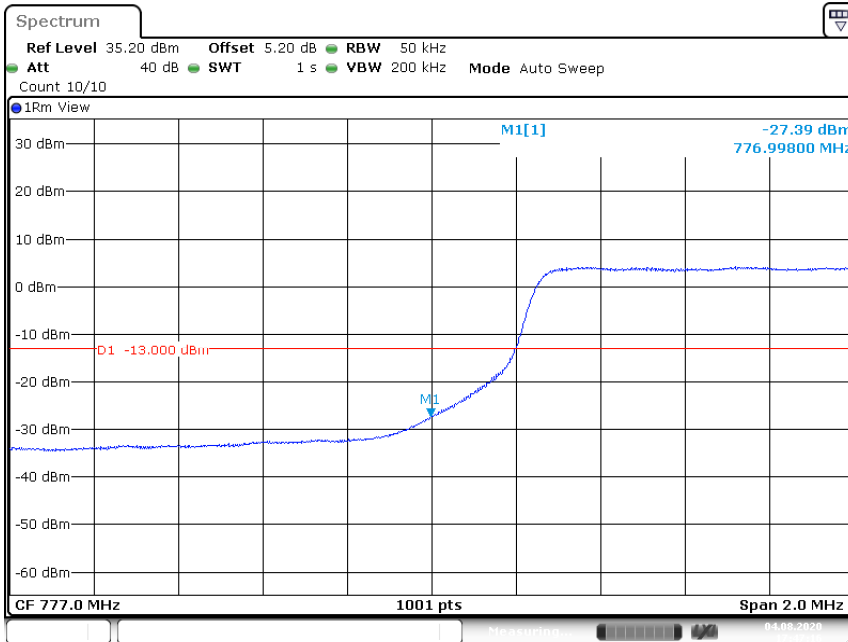
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**Band13-5MHz-16QAM-23205-1RB#0**



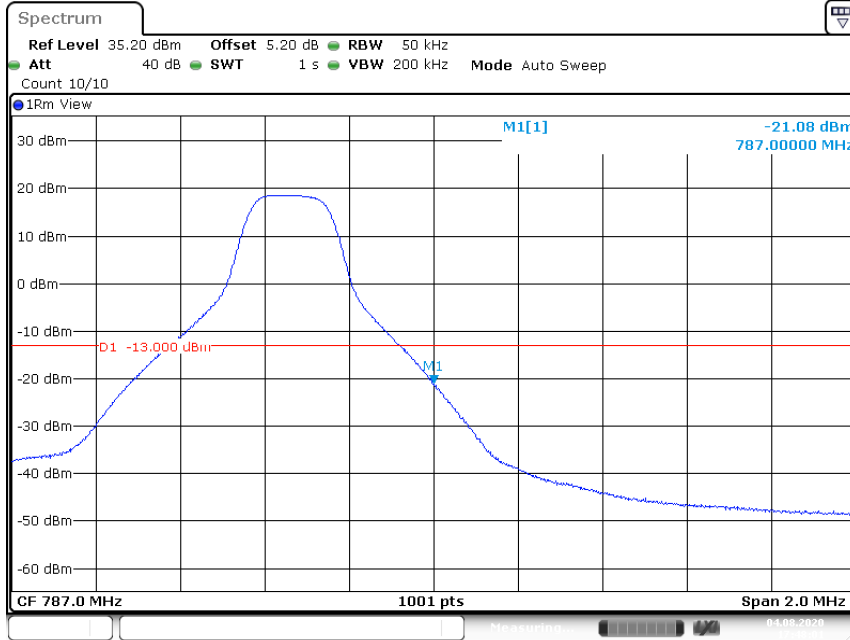
**Band13-5MHz-16QAM-23205-25RB#0**



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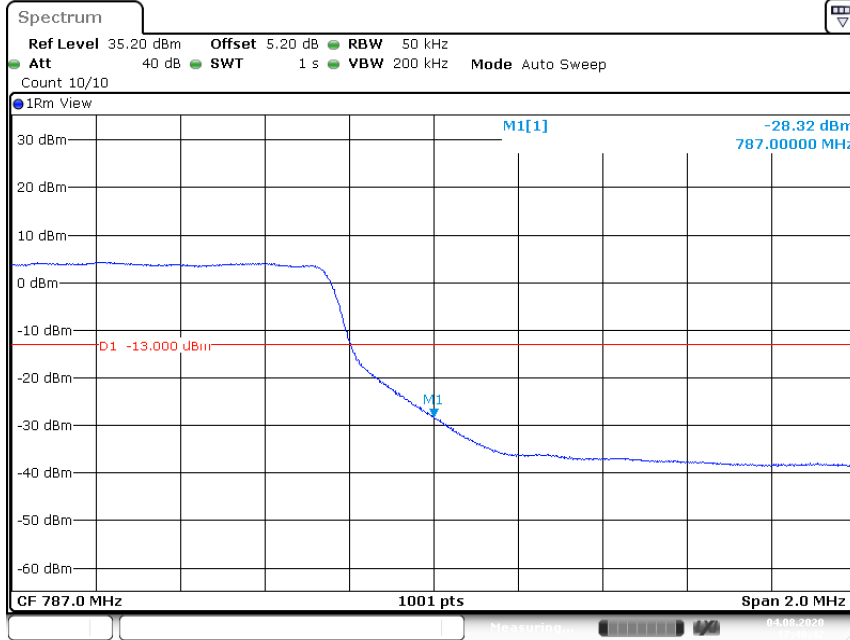
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**Band13-5MHz-16QAM-23255-1RB#24**



Date: 4.AUG.2020 17:48:01

**Band13-5MHz-16QAM-23255-25RB#0**

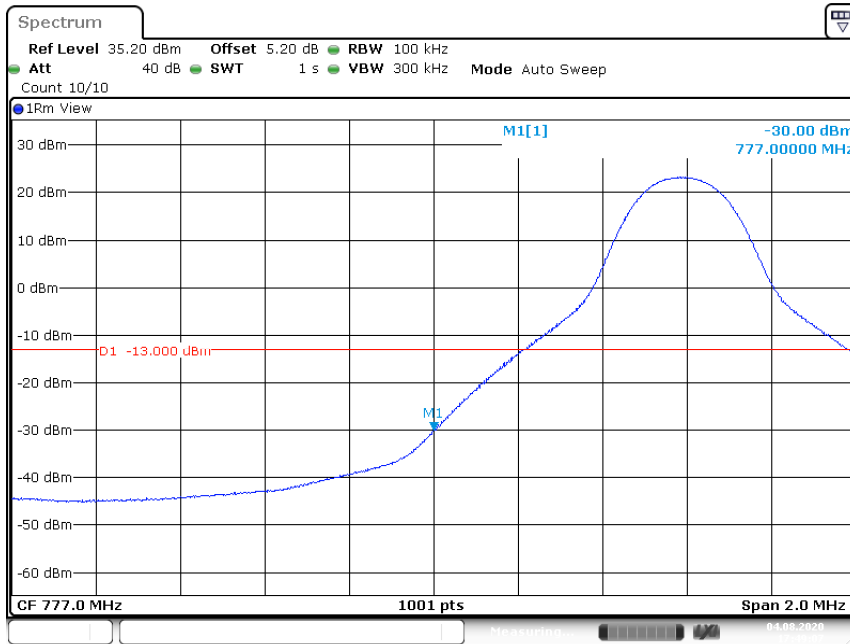


Date: 4.AUG.2020 17:48:42



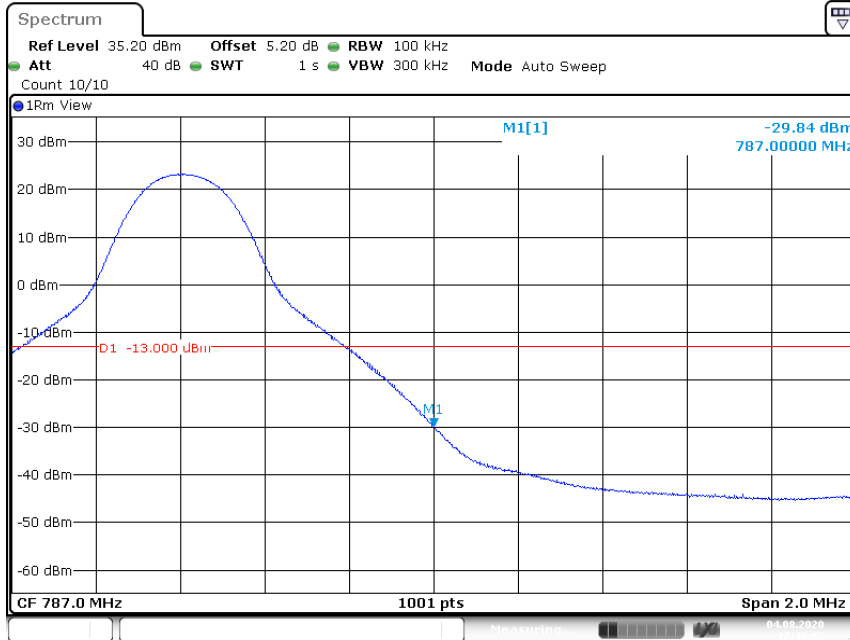
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**Band13-10MHz-QPSK-23230\_Left-1RB#0**



Date: 4.AUG.2020 17:49:07

**Band13-10MHz-QPSK-23230\_Right-1RB#49**

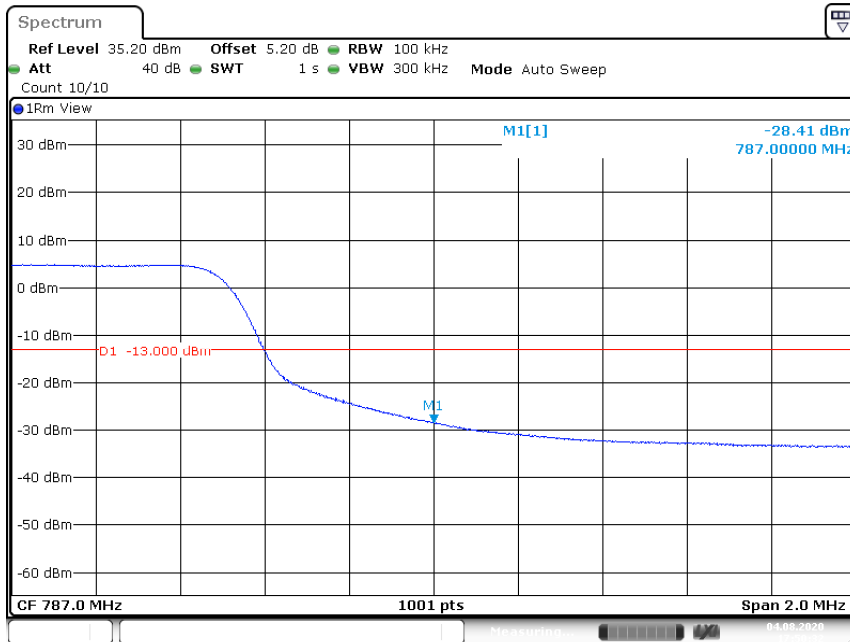


Date: 4.AUG.2020 17:49:52



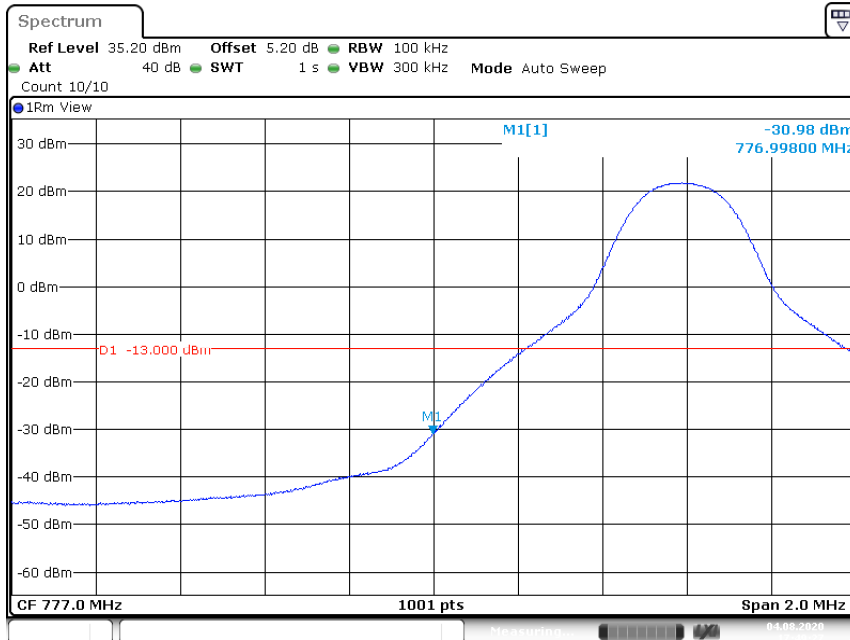
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**Band13-10MHz-QPSK-23230\_Right-50RB#0**



Date: 4.AUG.2020 17:50:33

**Band13-10MHz-16QAM-23230\_Left-1RB#0**

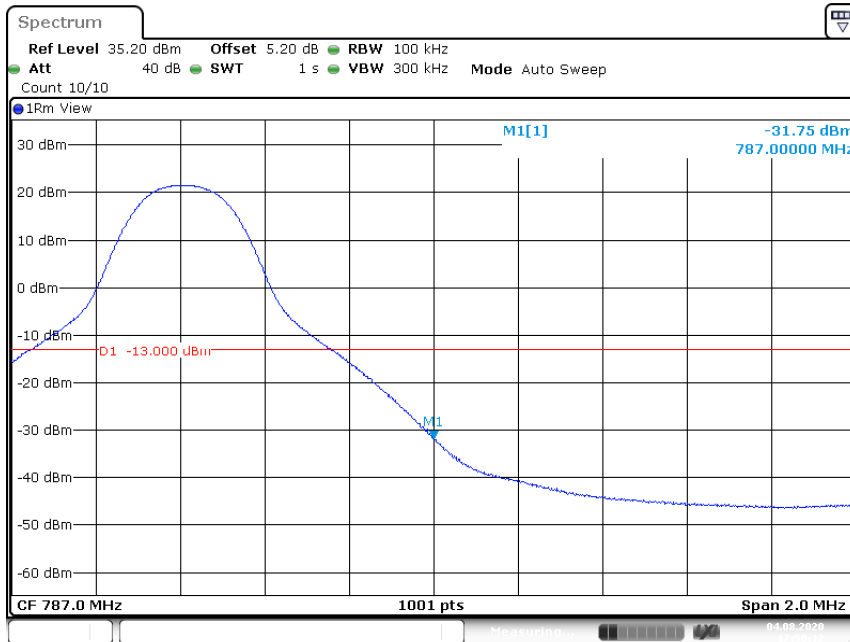


Date: 4.AUG.2020 17:49:28



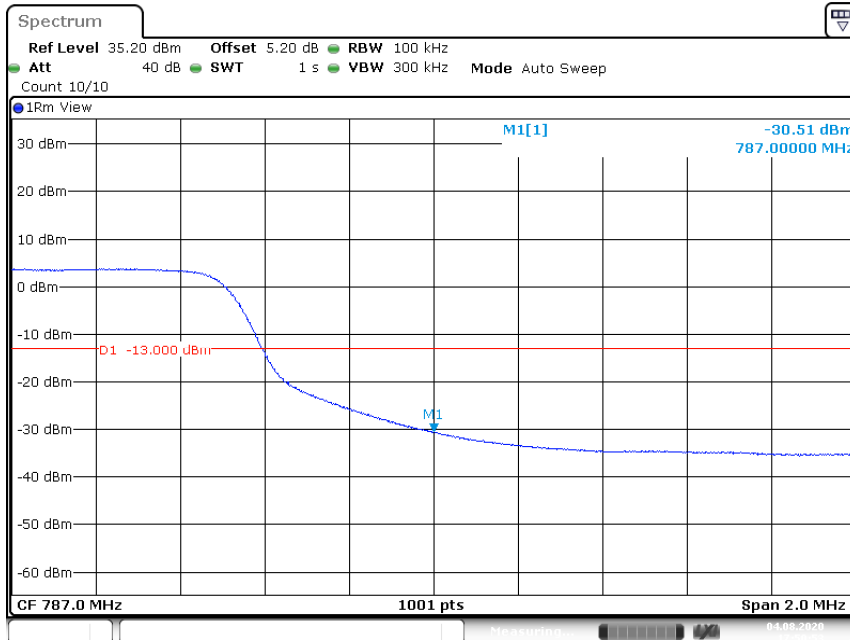
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**Band13-10MHz-16QAM-23230\_Right-1RB#49**



Date: 4.AUG.2020 17:50:12

**Band13-10MHz-16QAM-23230\_Right-50RB#0**



Date: 4.AUG.2020 17:50:53



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## 6. Spurious Emission at Antenna Terminal

REMARK: 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 =  $k * (\text{Span} / \text{RBW})$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

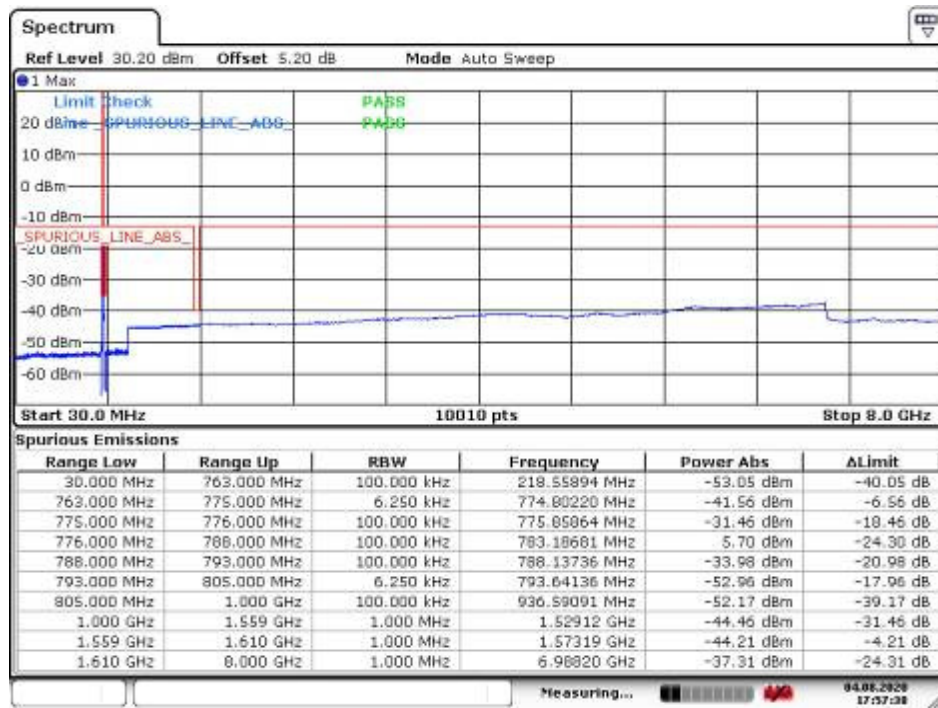
Part I - Test Plots

### 1.1 For LTE

#### 1.1.1 Test Band = LTE BAND 13

1.1.1.1 Test Mode = LTE / TM1 10MHz RBW#0

1.1.1.1.1 Test Channel = MCH



Date: 4 AUG 2020 17:57:39



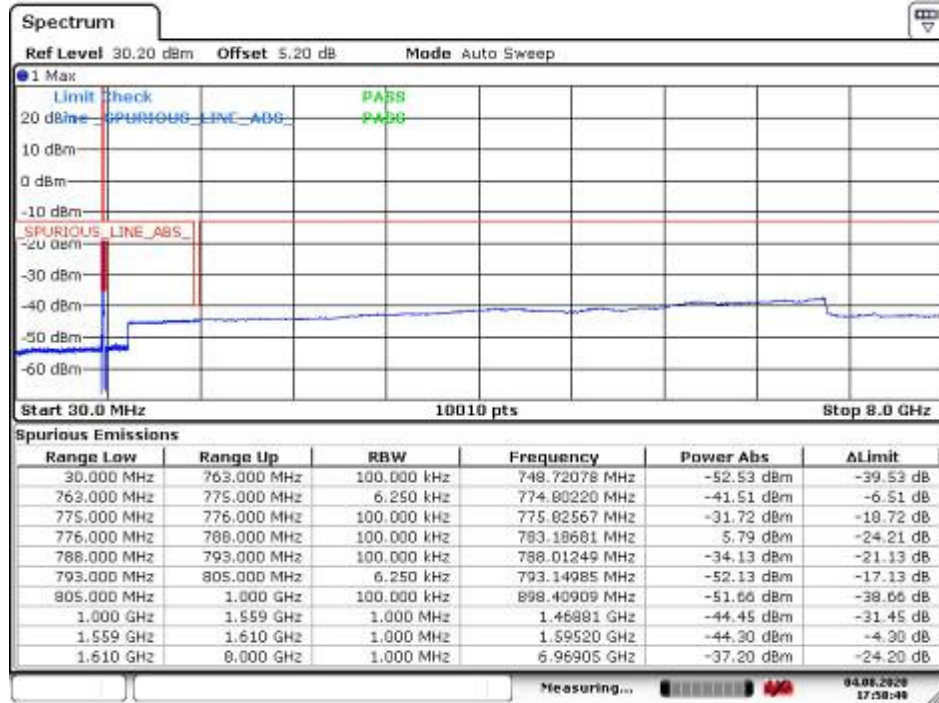
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1.1.1.2 Test Mode = LTE / TM2 10MHz RB1#0

1.1.1.2.1 Test Channel = MCH



Date: 4 AUG 2020 17:58:50



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## 7. Field Strength of Spurious Radiation

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

#### 7.1.1. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
65.326667	-73.61	-13.00	60.61	Vertical
189.926667	-83.75	-13.00	70.75	Vertical
1555.000000	-63.31	-13.00	50.31	Vertical
2802.000000	-57.18	-13.00	44.18	Vertical
4420.087500	-65.27	-13.00	52.27	Vertical
7195.912500	-62.94	-13.00	49.94	Vertical
62.900000	-72.91	-13.00	59.91	Horizontal
188.340000	-76.25	-13.00	63.25	Horizontal
618.208333	-75.96	-13.00	62.96	Horizontal
1555.000000	-62.60	-13.00	49.60	Horizontal
2208.500000	-59.15	-13.00	46.15	Horizontal
3546.000000	-67.13	-13.00	54.13	Horizontal

Remark:

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



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## 8. Frequency Stability

### 8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	-1.00	-0.001279	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	-0.70	-0.000895	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	-1.70	-0.002174	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VL	NT	-1.80	-0.002302	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VN	NT	-0.20	-0.000256	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VH	NT	-0.30	-0.000384	±2.5	PASS

### 8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	-1.10	-0.001407	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	-0.40	-0.000512	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-1.60	-0.002046	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	-0.60	-0.000767	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	-2.20	-0.002813	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	-1.30	-0.001662	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	-2.00	-0.002558	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	-1.30	-0.001662	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-30	-0.70	-0.000895	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-20	-1.10	-0.001407	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	0	0.00	0.000000	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	10	-1.40	-0.001790	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	20	-2.00	-0.002558	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	30	-0.90	-0.001151	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	40	-1.80	-0.002302	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	50	-0.20	-0.000256	±2.5	PASS



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