

Appendix B

E-UTRA Band 13



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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Config.	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	23.24	13.59	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.22	13.57	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.1	13.45	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#0	22.34	12.69	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#6	22.32	12.67	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#13	22.33	12.68	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.37	12.72	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.02	13.37	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.31	13.66	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.43	13.78	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#0	22.34	12.69	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#6	22.3	12.65	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#13	22.38	12.73	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.36	12.71	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	22.94	13.29	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.39	13.74	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	22.96	13.31	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#0	22.26	12.61	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#6	22.26	12.61	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#13	22.15	12.5	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.23	12.58	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.09	12.44	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.13	12.48	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.04	12.39	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#0	21.5	11.85	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#6	21.47	11.82	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#13	21.27	11.62	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.15	11.5	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.14	12.49	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	21.88	12.23	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.49	12.84	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#0	21.24	11.59	34.77	PASS

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Band13	5MHz	16QAM	23230	12RB#6	21.41	11.76	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#13	21.33	11.68	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.36	11.71	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.02	12.37	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.24	12.59	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	21.91	12.26	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#0	21.22	11.57	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#6	21.25	11.6	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#13	21.08	11.43	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.04	11.39	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.41	13.76	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.57	13.92	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.12	13.47	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#0	22.33	12.68	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#12	22.23	12.58	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#25	22.34	12.69	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.37	12.72	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.43	12.78	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.56	12.91	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.25	12.6	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#0	21.37	11.72	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#12	21.51	11.86	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#25	21.36	11.71	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.1	11.45	34.77	PASS

Remark:

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

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]

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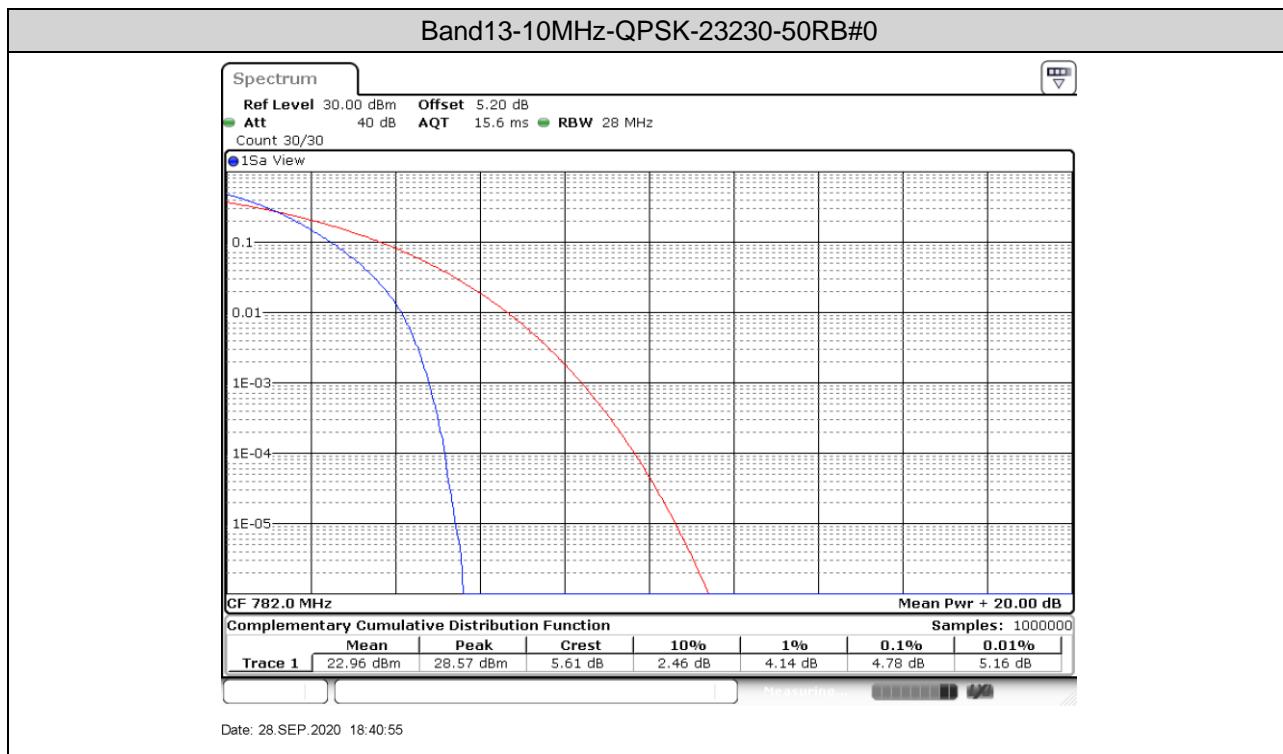
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2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	4.78	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	5.57	13	PASS

2.2. Test Plots

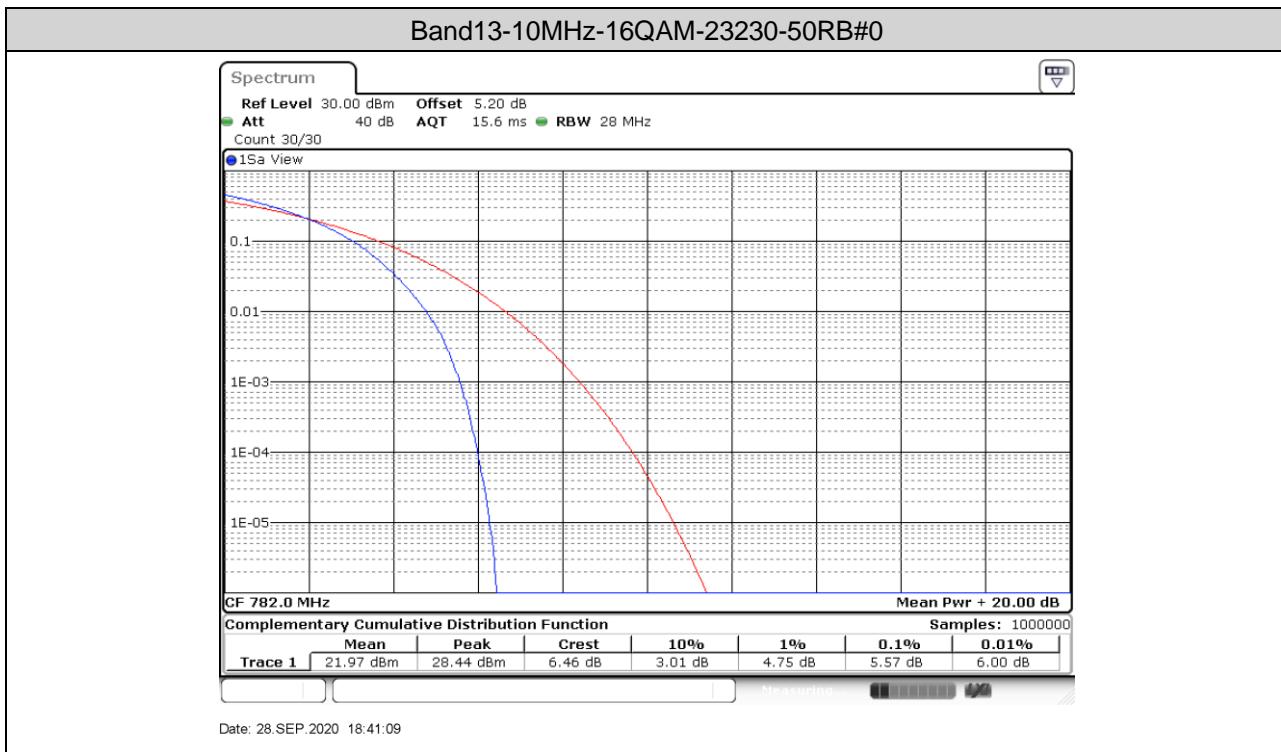


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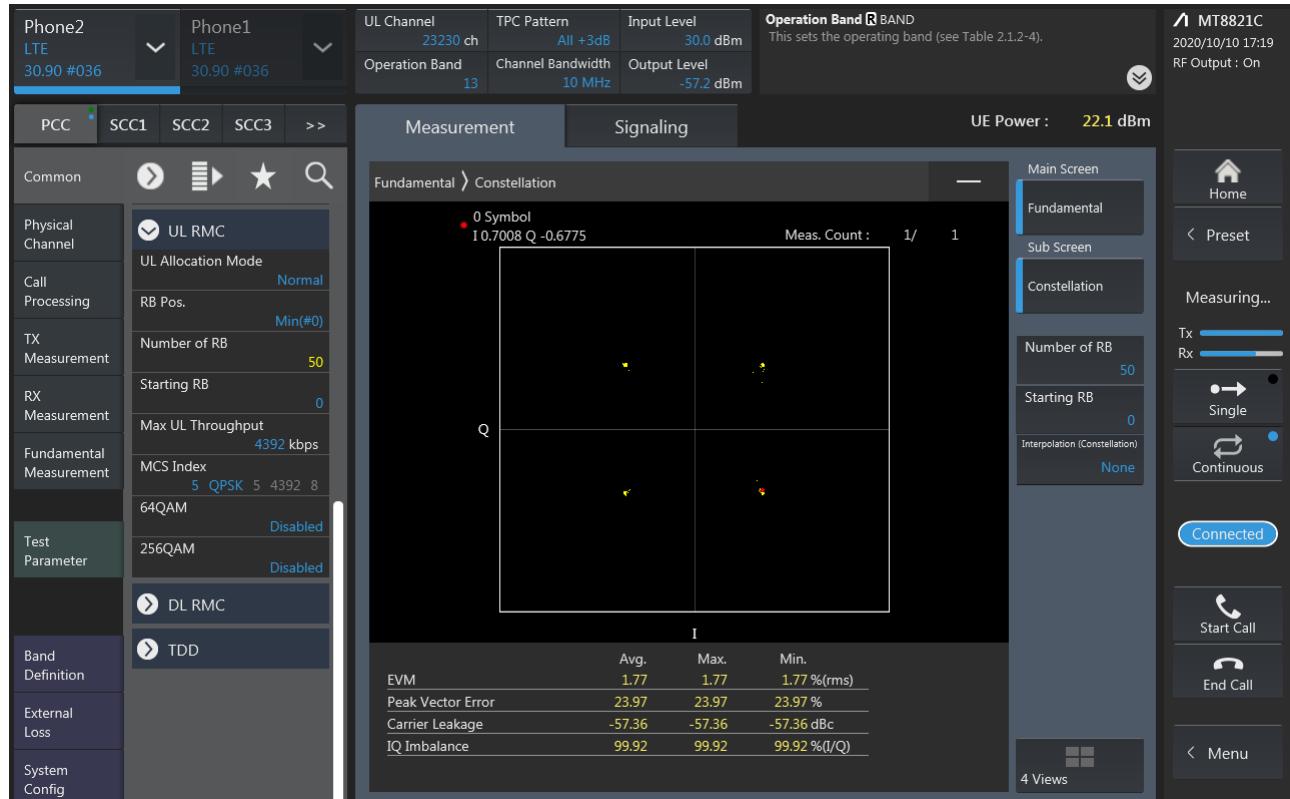


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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

3.1.1. Test Channel = MCH

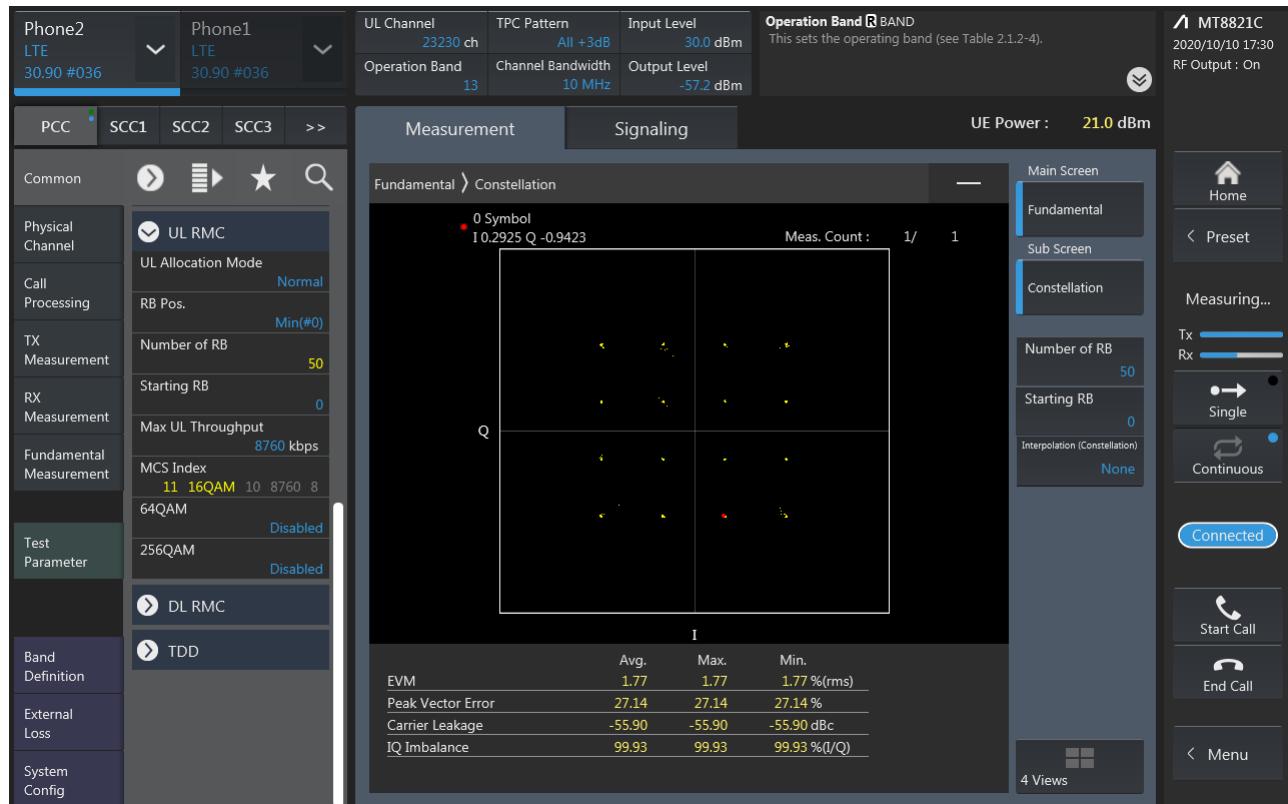


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3.2. Test Mode = LTE /TM2 10MHz

3.2.1. Test Channel = MCH



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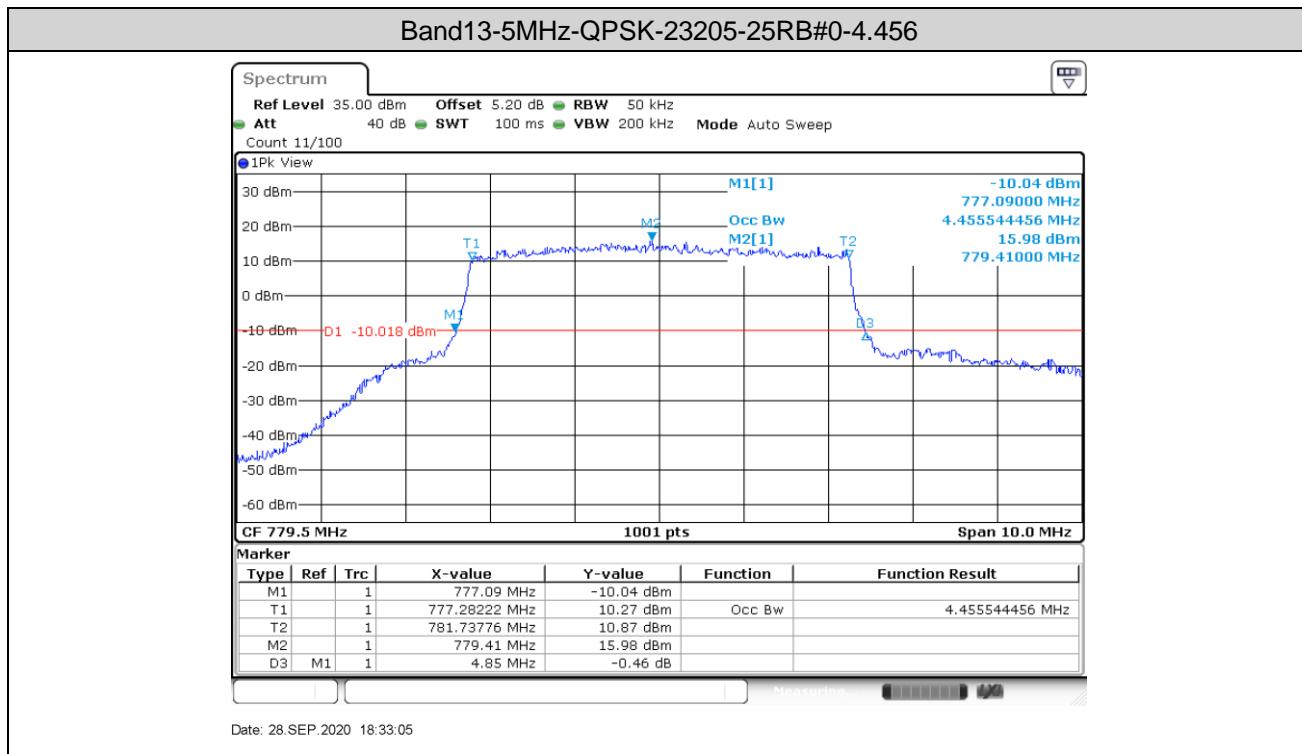
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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.456	4.850	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.486	4.940	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.446	4.830	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.466	4.900	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.505	4.980	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.456	4.890	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.891	9.600	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.891	9.680	PASS

4.2. Test Plots



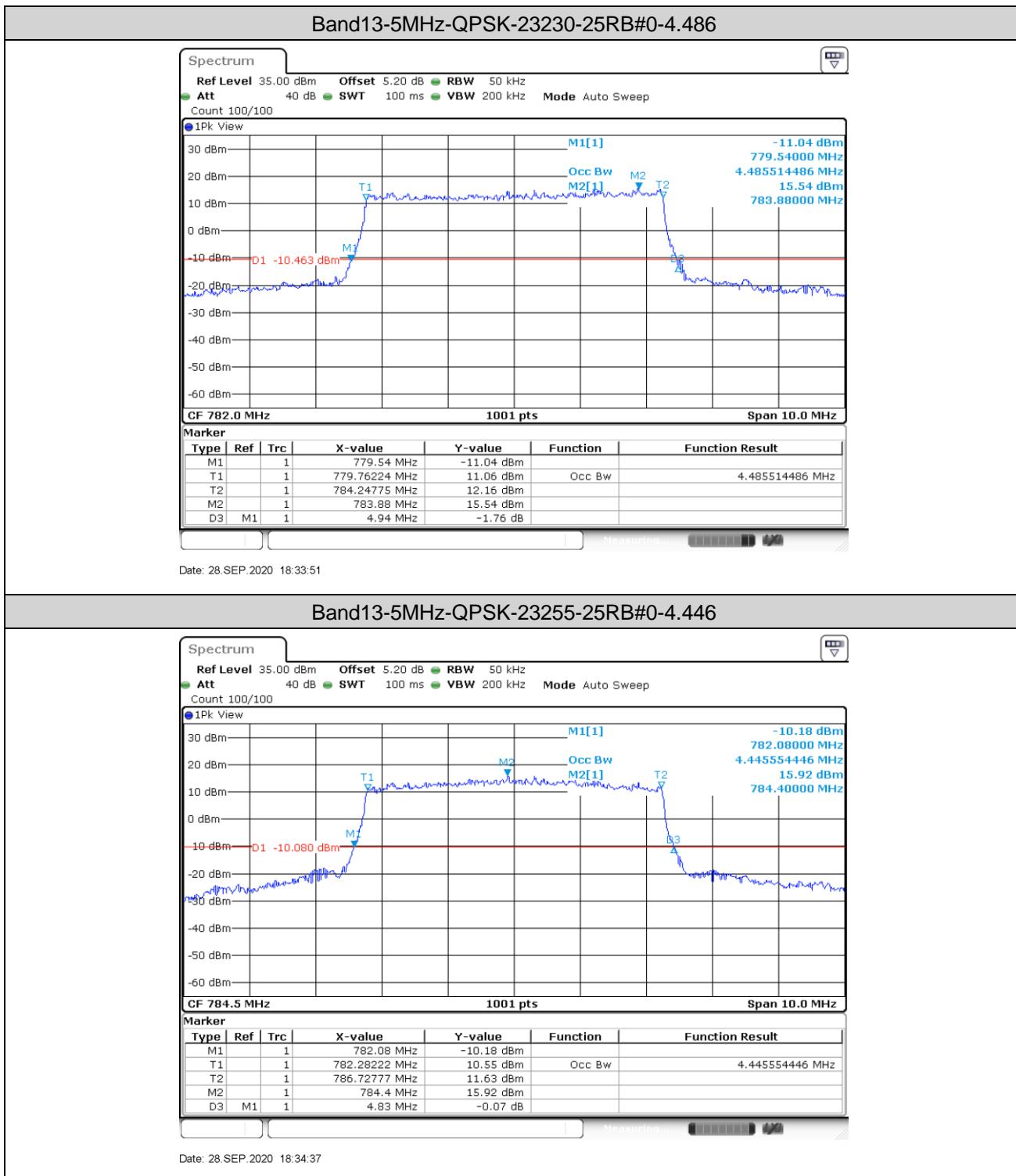
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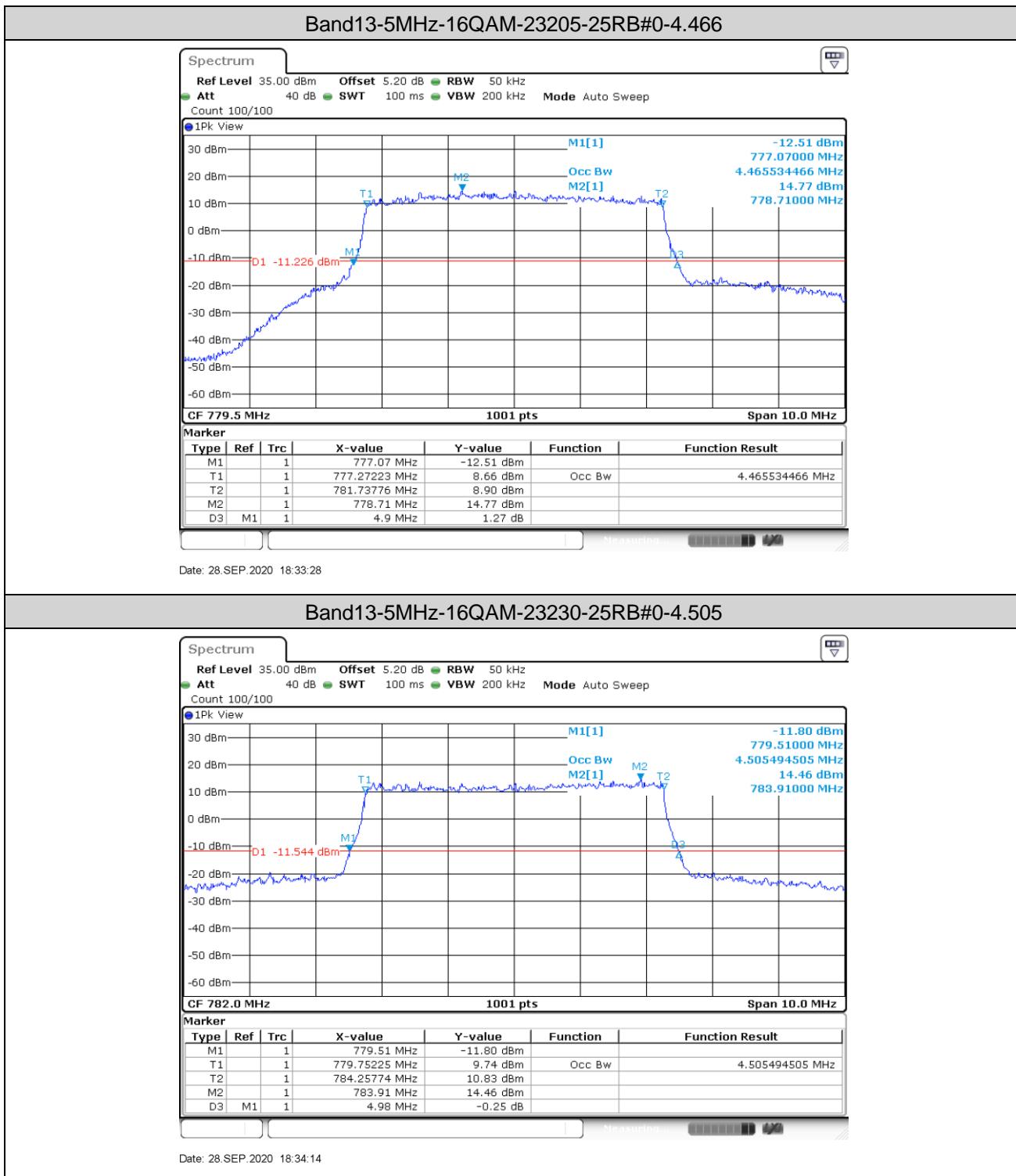
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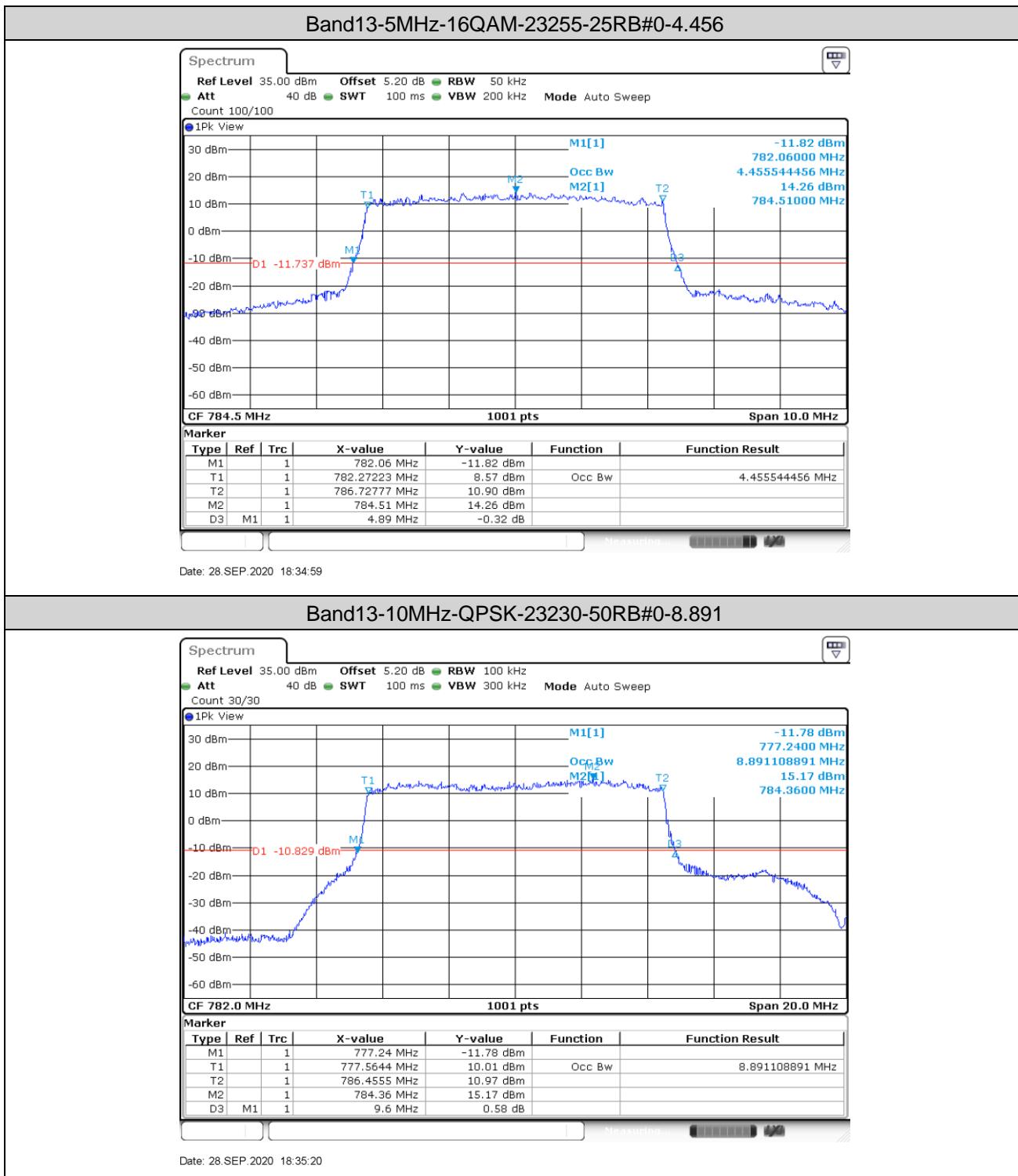


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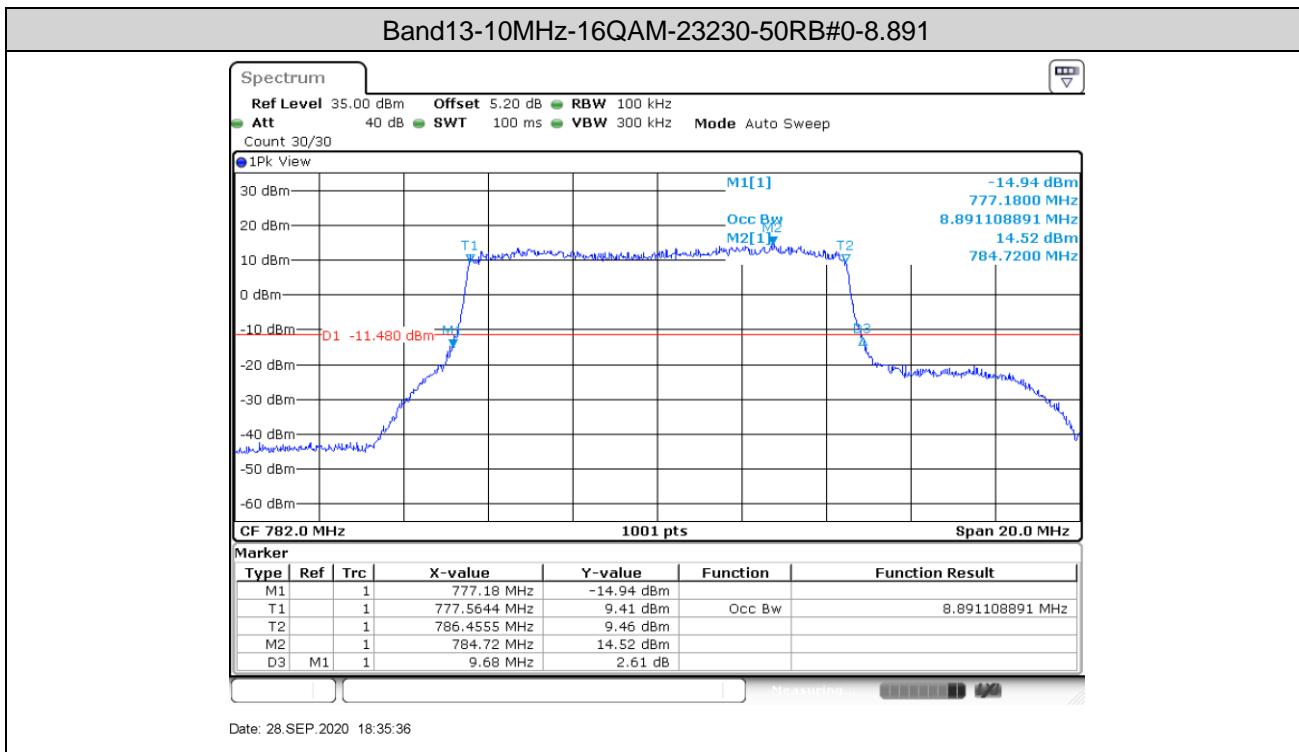


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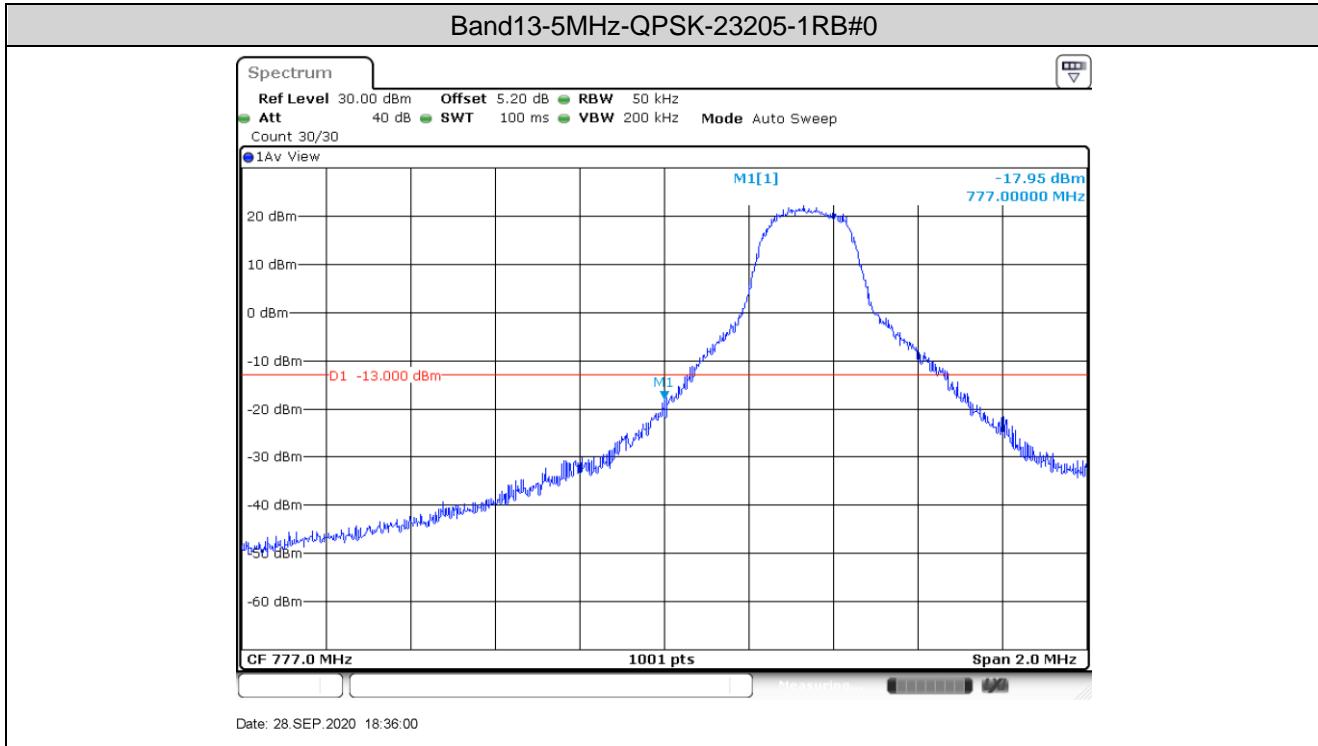
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5. Band Edge Compliance

5.1. Test Plots



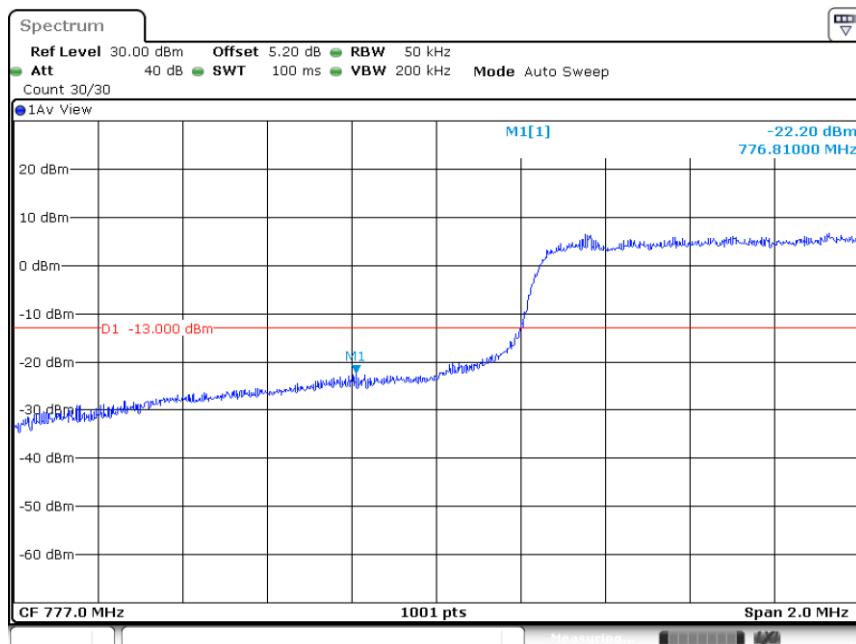
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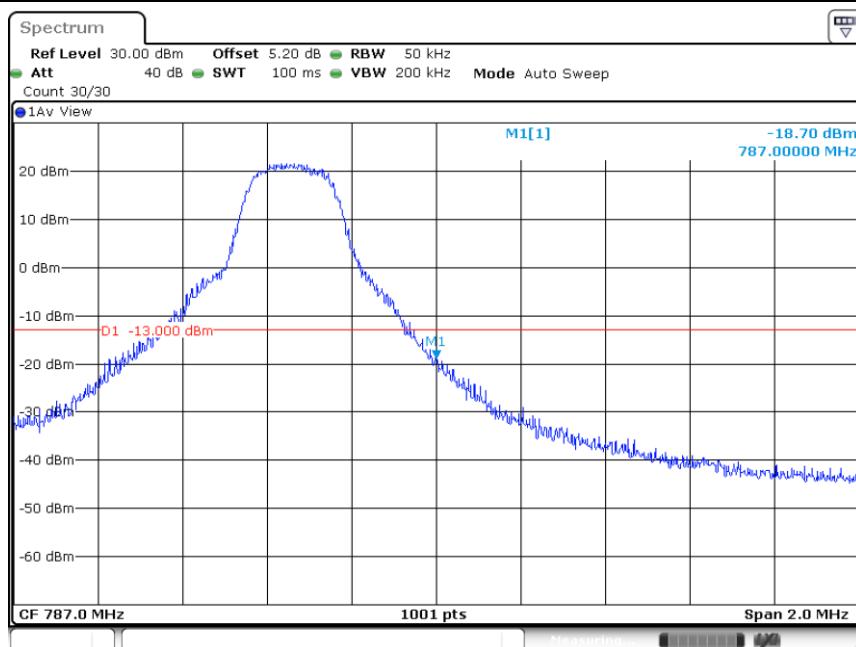
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Band13-5MHz-QPSK-23205-25RB#0



Date: 28.SEP.2020 18:36:33

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



Date: 28.SEP.2020 18:37:14

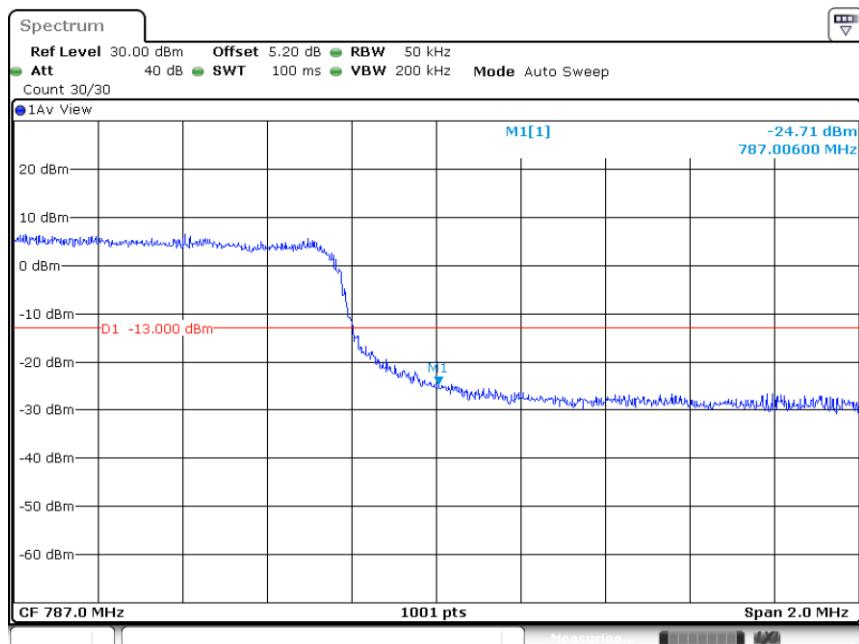
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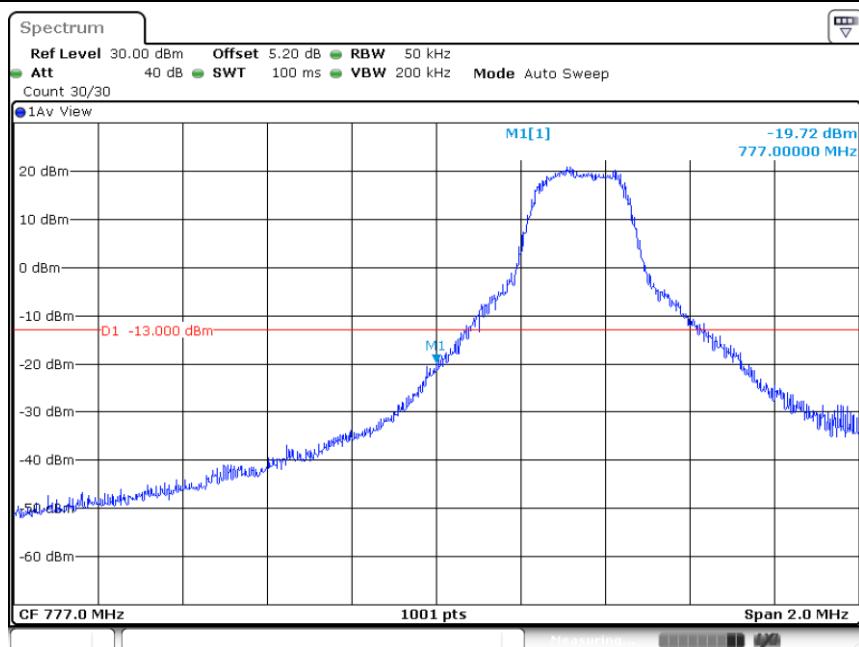
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Band13-5MHz-QPSK-23255-25RB#0



Date: 28.SEP.2020 18:37:47

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



Date: 28.SEP.2020 18:36:17

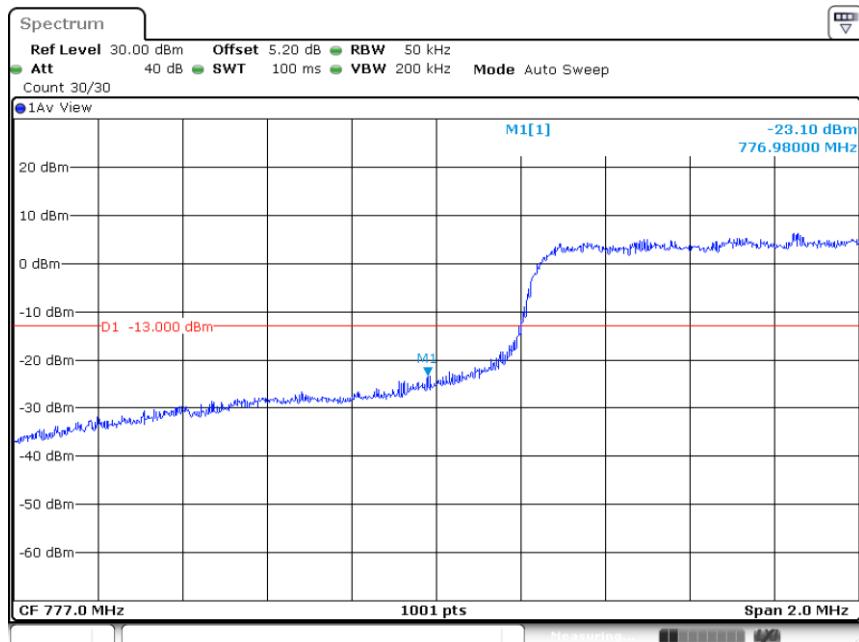
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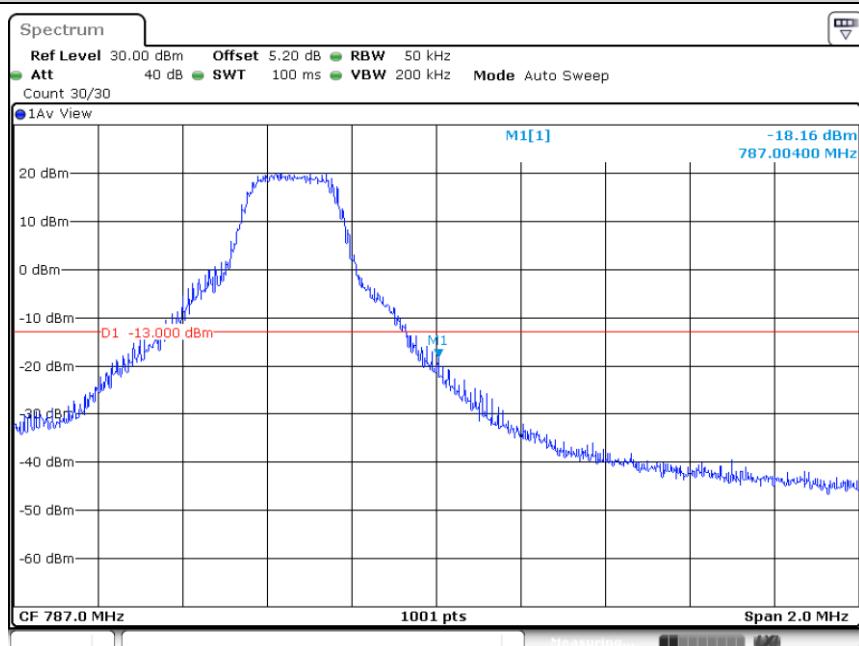
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Band13-5MHz-16QAM-23205-25RB#0



Date: 28.SEP.2020 18:36:50

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



Date: 28.SEP.2020 18:37:30

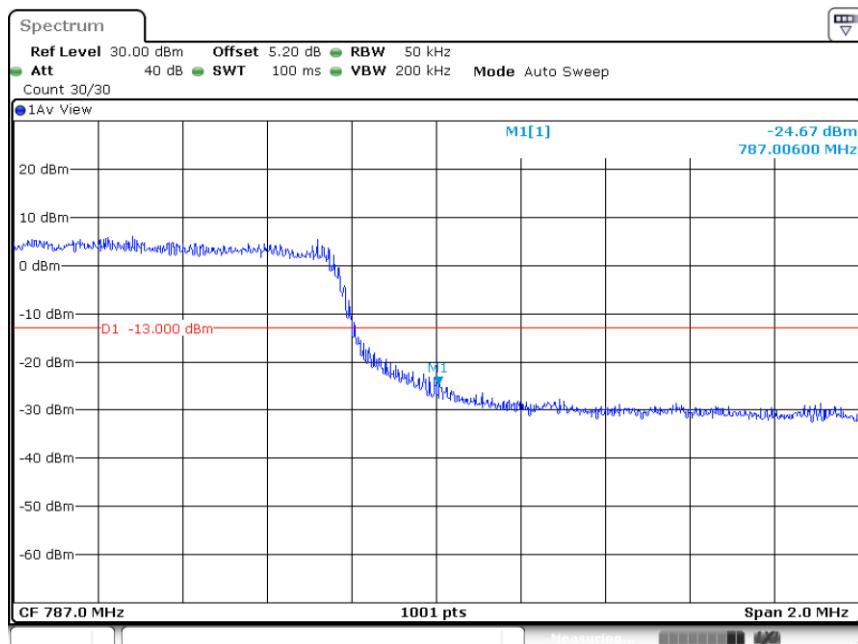
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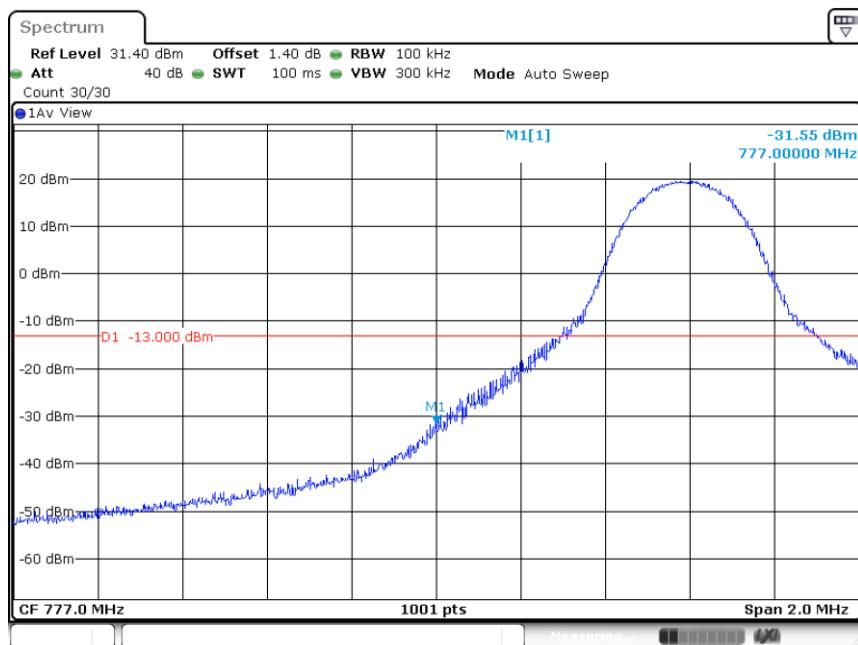
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Band13-5MHz-16QAM-23255-25RB#0



Date: 28.SEP.2020 18:38:03

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



Date: 12.OCT.2020 14:07:51

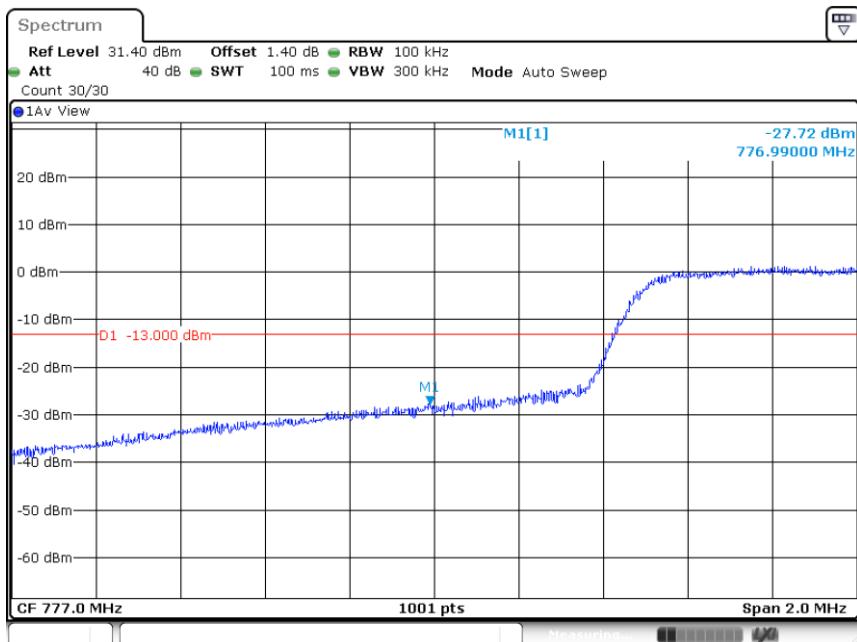
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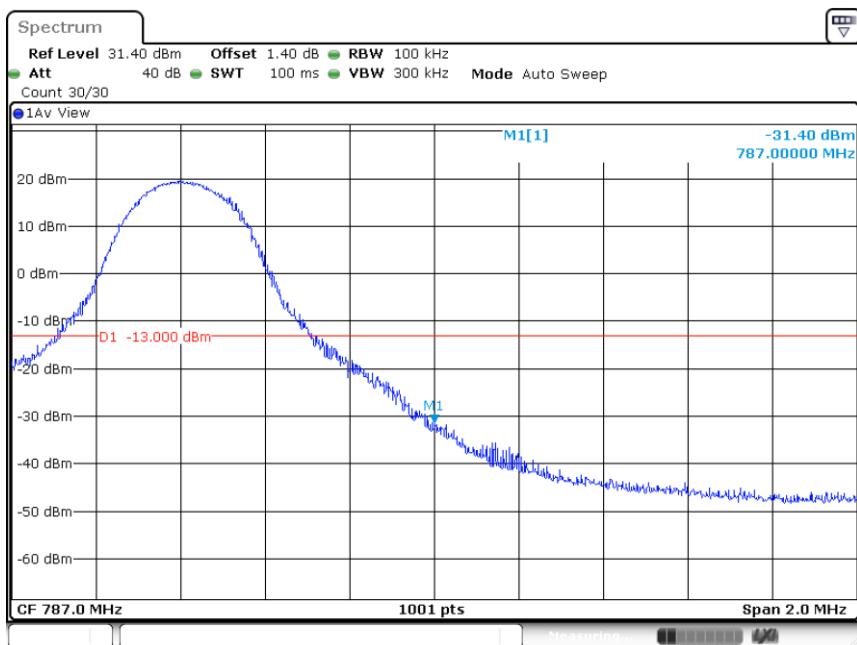
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Band13-10MHz-QPSK-23230_Left-50RB#0



Date: 12.OCT.2020 14:08:22

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



Date: 12.OCT.2020 14:08:59

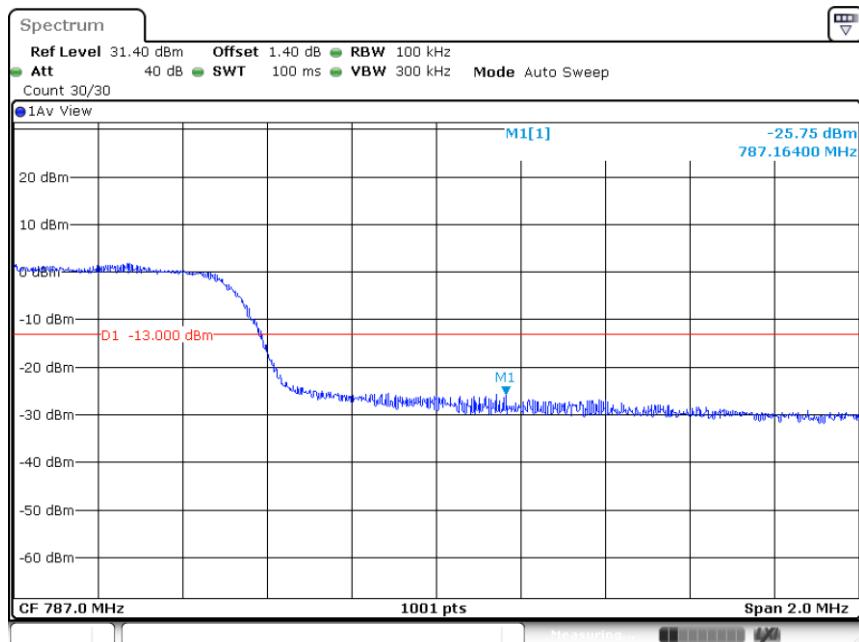
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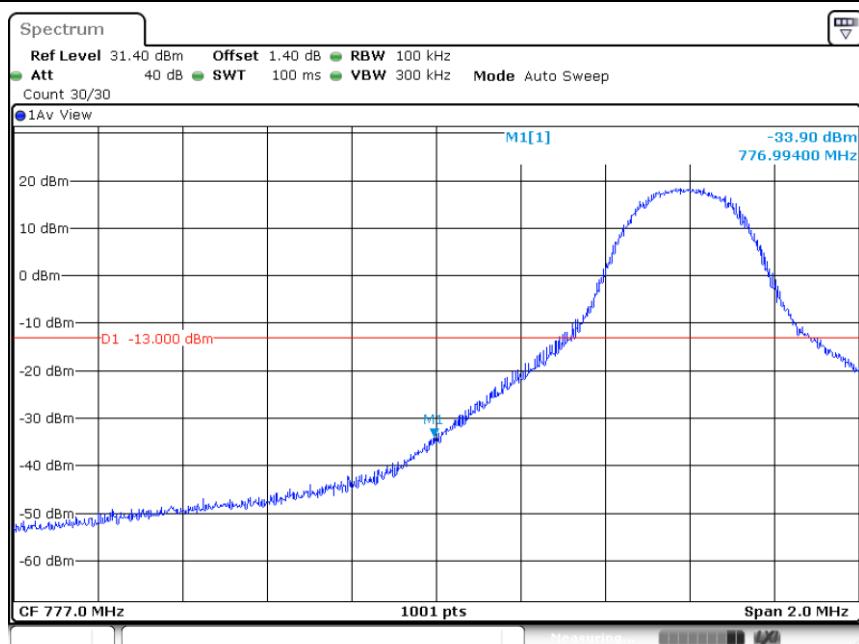
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Band13-10MHz-QPSK-23230_Right-50RB#0



Date: 12.OCT.2020 14:09:30

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



Date: 12.OCT.2020 14:08:06

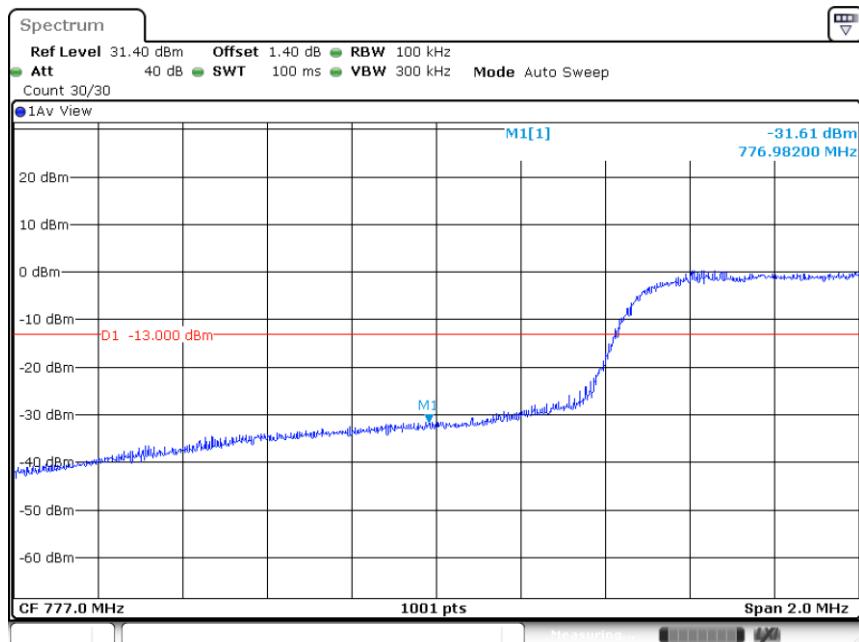
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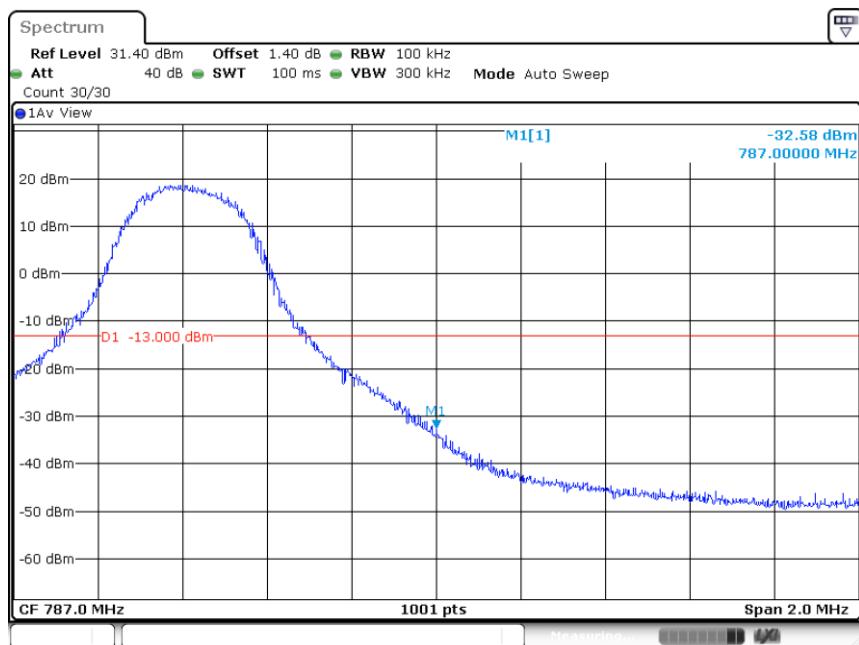
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Band13-10MHz-16QAM-23230_Left-50RB#0



Date: 12.OCT.2020 14:08:38

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



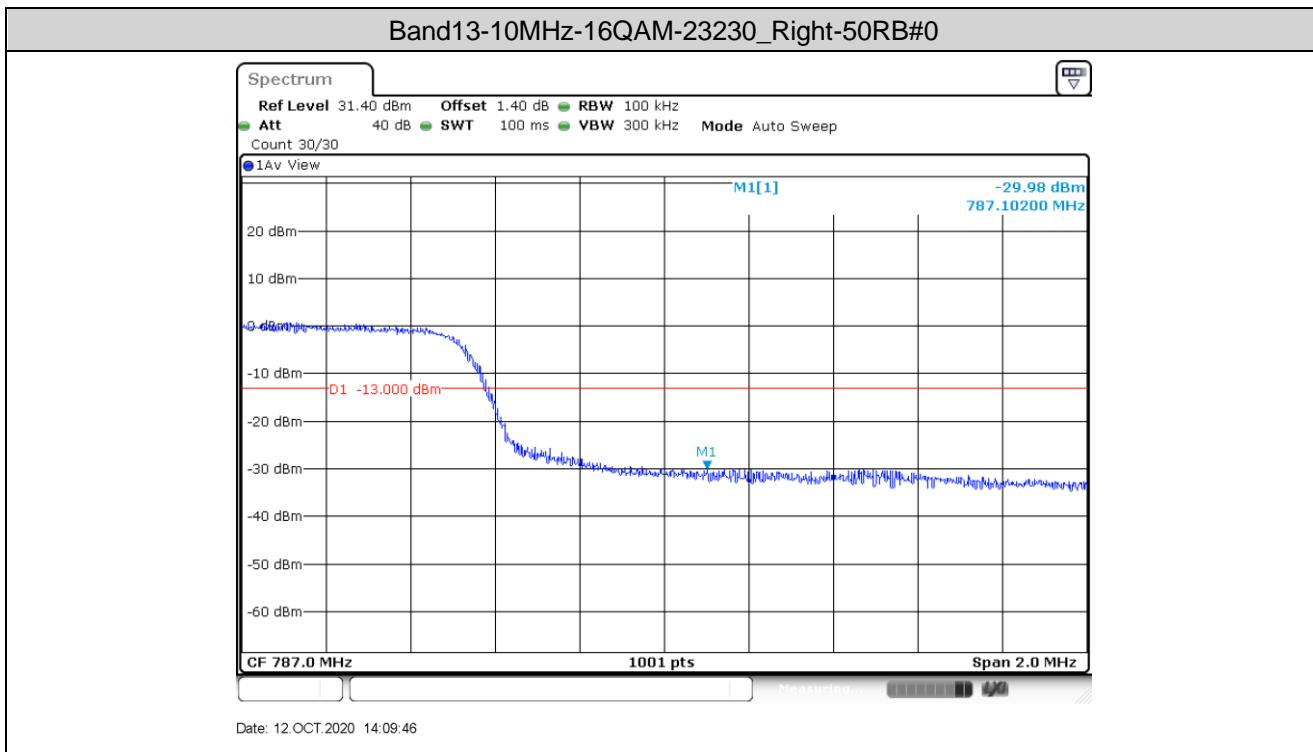
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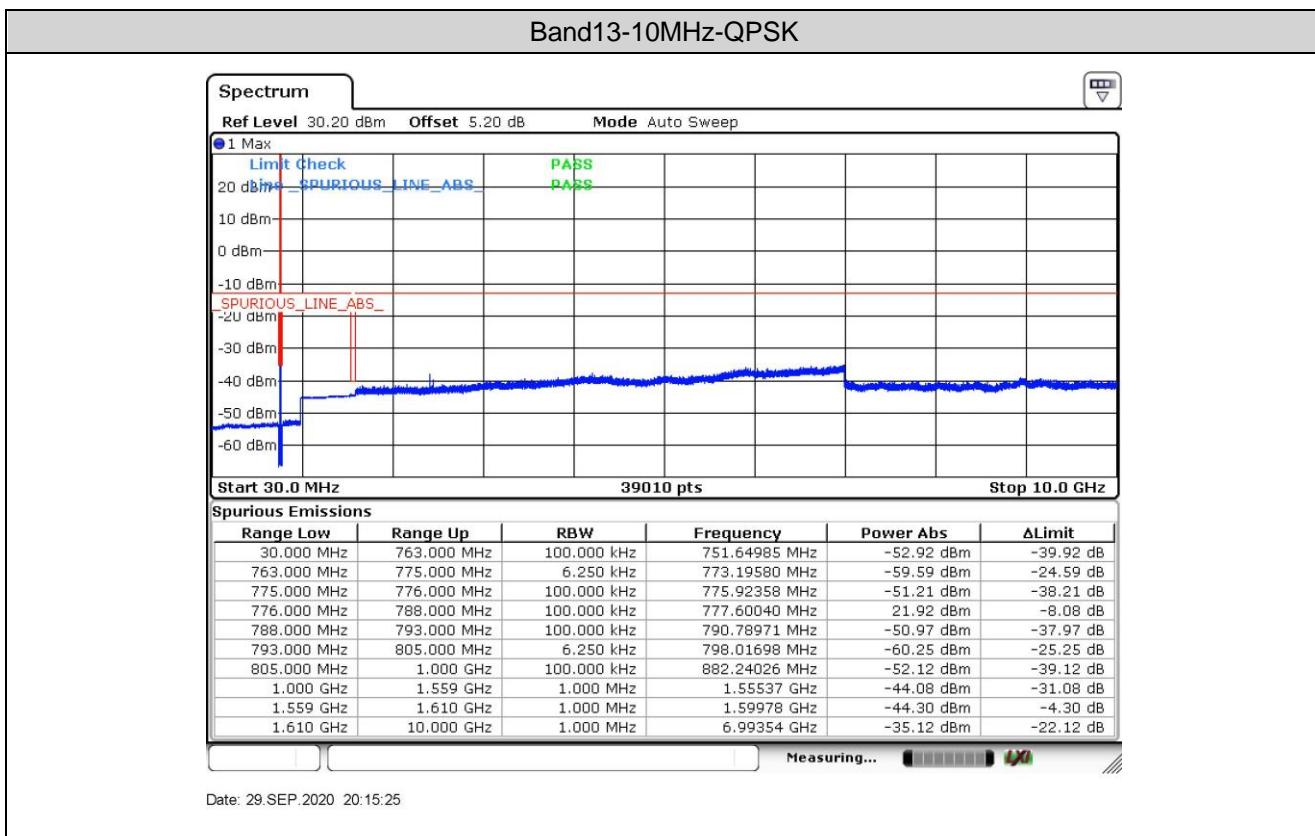
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6. Spurious Emission at Antenna Terminal

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 $< \text{RBW}/2$ 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.

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

6.1. Test Plots



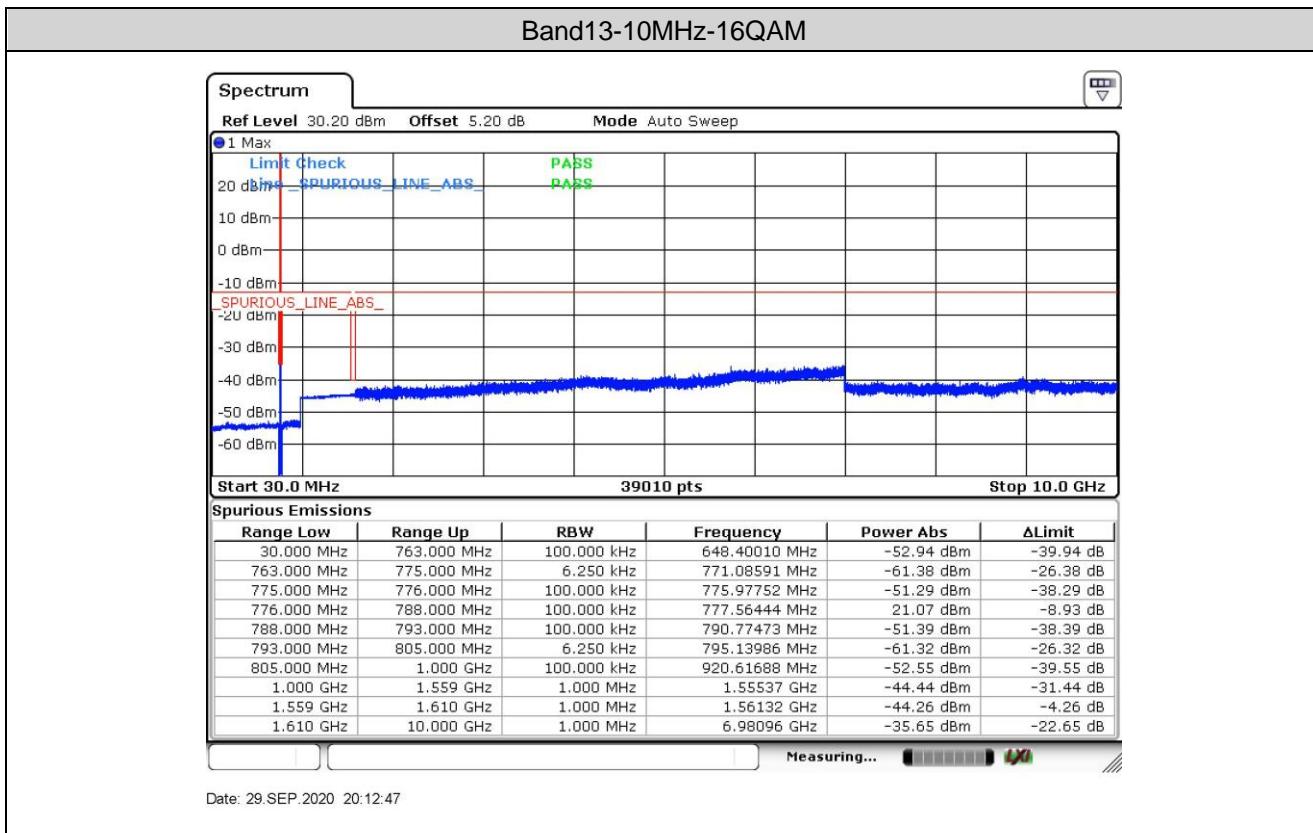
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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 10MHz

7.1.1. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
30.6305	-72.66	-13.00	59.66	282	89	Vertical
108.4769	-65.10	-13.00	52.10	233	346	Vertical
303.1172	-69.84	-13.00	56.84	196	239	Vertical
1582.9166	-65.07	-40.00	25.07	143	70	Vertical
2332.6665	-57.58	-13.00	44.58	178	174	Vertical
9912.3565	-52.57	-13.00	39.57	152	47	Vertical
44.4537	-64.97	-13.00	51.97	199	175	Horizontal
104.9847	-75.75	-13.00	62.75	153	112	Horizontal
249.5705	-68.35	-13.00	55.35	252	197	Horizontal
1586.9174	-64.99	-40.00	24.99	117	298	Horizontal
2463.0926	-56.21	-13.00	43.21	186	293	Horizontal
9322.3729	-52.84	-13.00	39.84	131	154	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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SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Services Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage						Verdict
					Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)		
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	-0.10	-0.000128	±2.5	PASS	
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	-7.70	-0.009847	±2.5	PASS	
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	0.50	0.000639	±2.5	PASS	
Band13	10MHz	16QAM	23230	50RB#0	VL	NT	-0.90	-0.001151	±2.5	PASS	
Band13	10MHz	16QAM	23230	50RB#0	VN	NT	0.50	0.000639	±2.5	PASS	
Band13	10MHz	16QAM	23230	50RB#0	VH	NT	-0.50	-0.000639	±2.5	PASS	

8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Temperature						Verdict
					Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)		
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	-10.30	-0.013171	±2.5	PASS	
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	-5.70	-0.007289	±2.5	PASS	
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	-5.10	-0.006522	±2.5	PASS	
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-0.20	-0.000256	±2.5	PASS	
Band13	10MHz	QPSK	23230	50RB#0	NV	10	-5.30	-0.006777	±2.5	PASS	
Band13	10MHz	QPSK	23230	50RB#0	NV	20	0.70	0.000895	±2.5	PASS	
Band13	10MHz	QPSK	23230	50RB#0	NV	30	-2.30	-0.002941	±2.5	PASS	
Band13	10MHz	QPSK	23230	50RB#0	NV	40	-3.00	-0.003836	±2.5	PASS	
Band13	10MHz	QPSK	23230	50RB#0	NV	50	0.10	0.000128	±2.5	PASS	
Band13	10MHz	16QAM	23230	50RB#0	NV	-30	2.40	0.003069	±2.5	PASS	
Band13	10MHz	16QAM	23230	50RB#0	NV	-20	1.30	0.001662	±2.5	PASS	
Band13	10MHz	16QAM	23230	50RB#0	NV	-10	1.80	0.002302	±2.5	PASS	
Band13	10MHz	16QAM	23230	50RB#0	NV	0	-0.10	-0.000128	±2.5	PASS	
Band13	10MHz	16QAM	23230	50RB#0	NV	10	0.60	0.000767	±2.5	PASS	
Band13	10MHz	16QAM	23230	50RB#0	NV	20	0.70	0.000895	±2.5	PASS	
Band13	10MHz	16QAM	23230	50RB#0	NV	30	1.80	0.002302	±2.5	PASS	
Band13	10MHz	16QAM	23230	50RB#0	NV	40	-0.70	-0.000895	±2.5	PASS	
Band13	10MHz	16QAM	23230	50RB#0	NV	50	-0.60	-0.000767	±2.5	PASS	

The End

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