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# Appendix B.7

## LTE Band 13



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

#### ANT1

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	22.61	17.36	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	22.40	17.15	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	22.11	16.86	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	21.28	16.03	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	22.16	16.91	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	22.42	17.17	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	22.09	16.84	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	21.29	16.04	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	22.13	16.88	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	22.38	17.13	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	22.07	16.82	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	21.15	15.90	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	21.96	16.71	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	21.82	16.57	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	21.50	16.25	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	20.34	15.09	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	21.48	16.23	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	21.79	16.54	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	21.33	16.08	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	20.37	15.12	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	21.51	16.26	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	21.71	16.46	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	21.41	16.16	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	20.22	14.97	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#0	20.91	15.66	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	22.75	17.50	34.77	PASS



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Band13	10MHz	QPSK	23230	1RB#24	22.85	17.60	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	22.64	17.39	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	21.82	16.57	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.11	16.86	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.16	16.91	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	21.97	16.72	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	20.90	15.65	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	21.07	15.82	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#24	21.10	15.85	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	20.97	15.72	34.77	PASS
Band13	10MHz	64QAM	23230	50RB#0	19.98	14.73	34.77	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	5.88	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.61	13	PASS
Band13	10MHz	64QAM	23230	50RB#0	6.90	13	PASS



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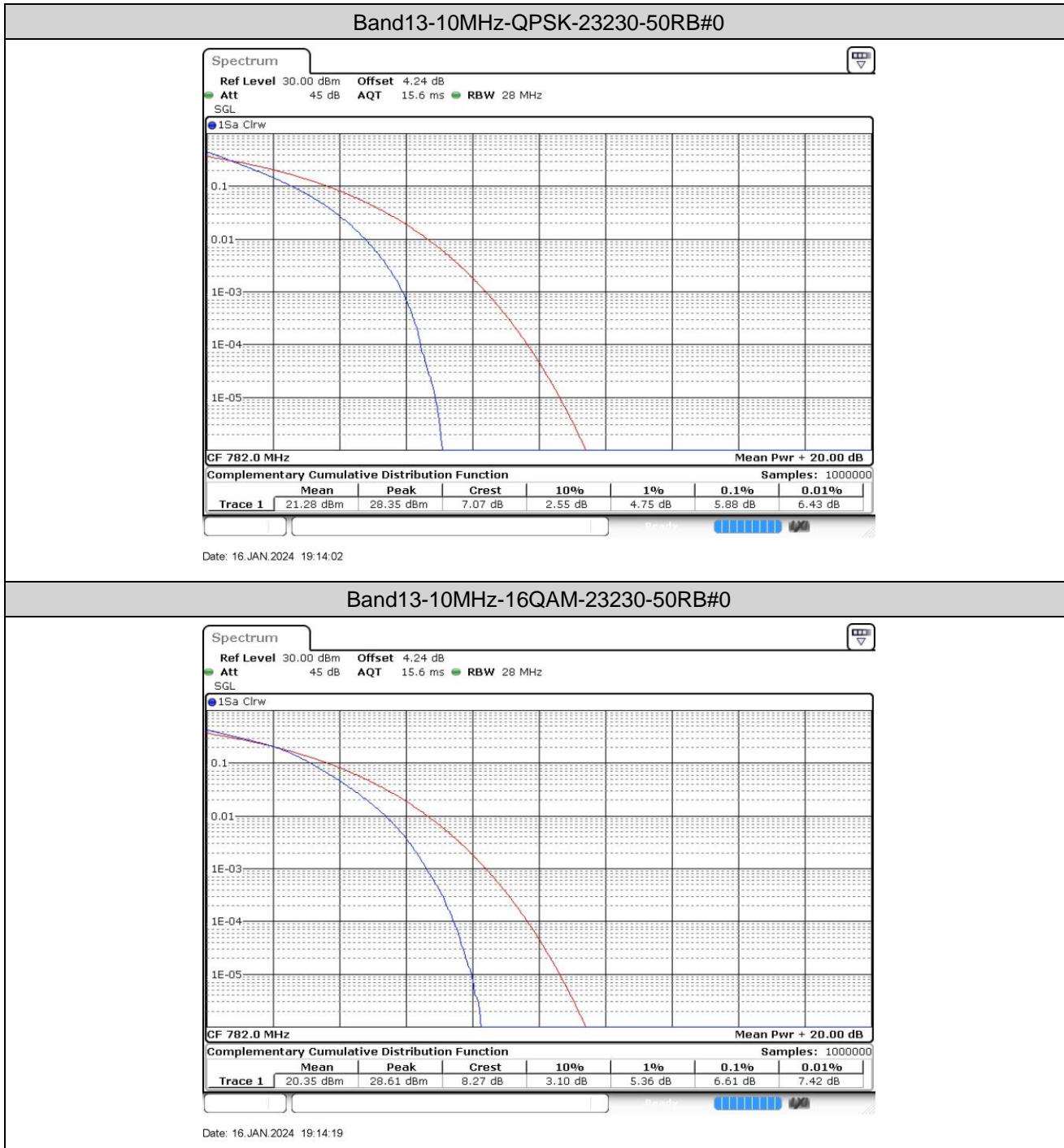
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**Test Graphs**


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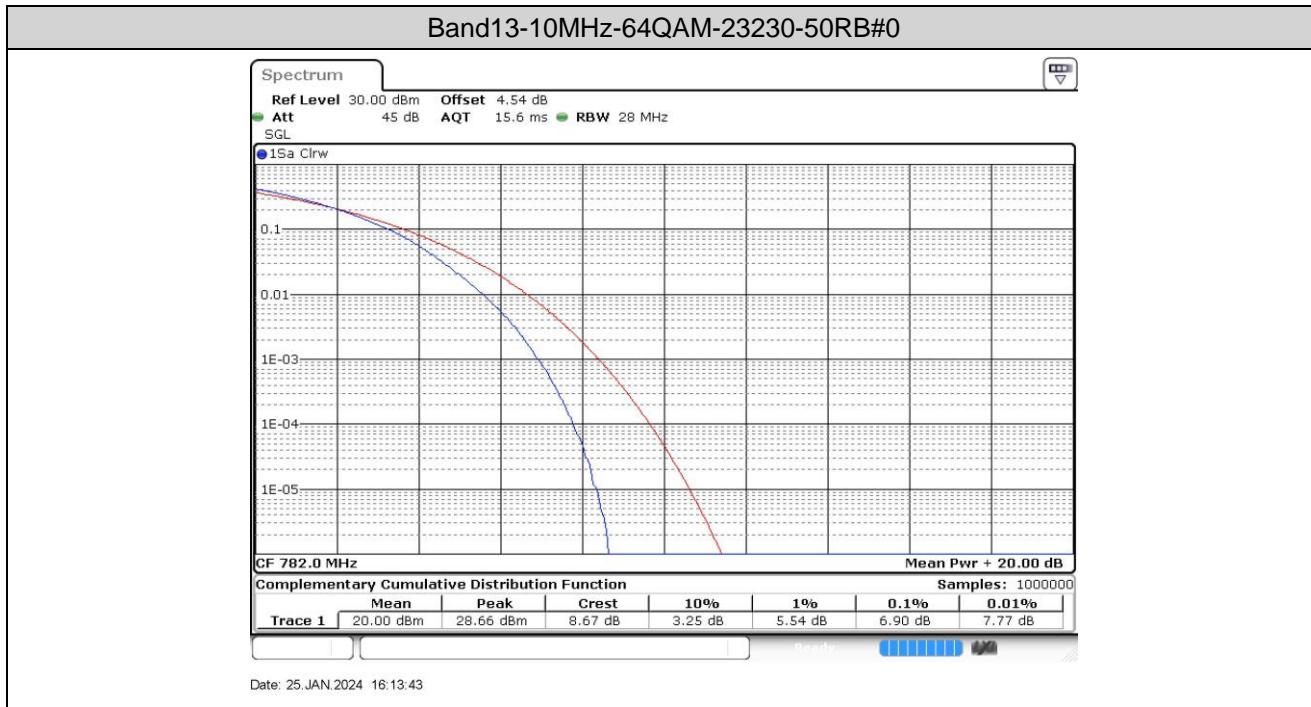
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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.476	5.05	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.486	5.04	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.476	5.08	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.476	5.14	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.476	5.13	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.466	5.06	PASS
Band13	5MHz	64QAM	23205	25RB#0	4.496	5.04	PASS
Band13	5MHz	64QAM	23230	25RB#0	4.486	5.06	PASS
Band13	5MHz	64QAM	23255	25RB#0	4.476	5.04	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.971	9.82	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.931	9.80	PASS
Band13	10MHz	64QAM	23230	50RB#0	8.951	9.86	PASS



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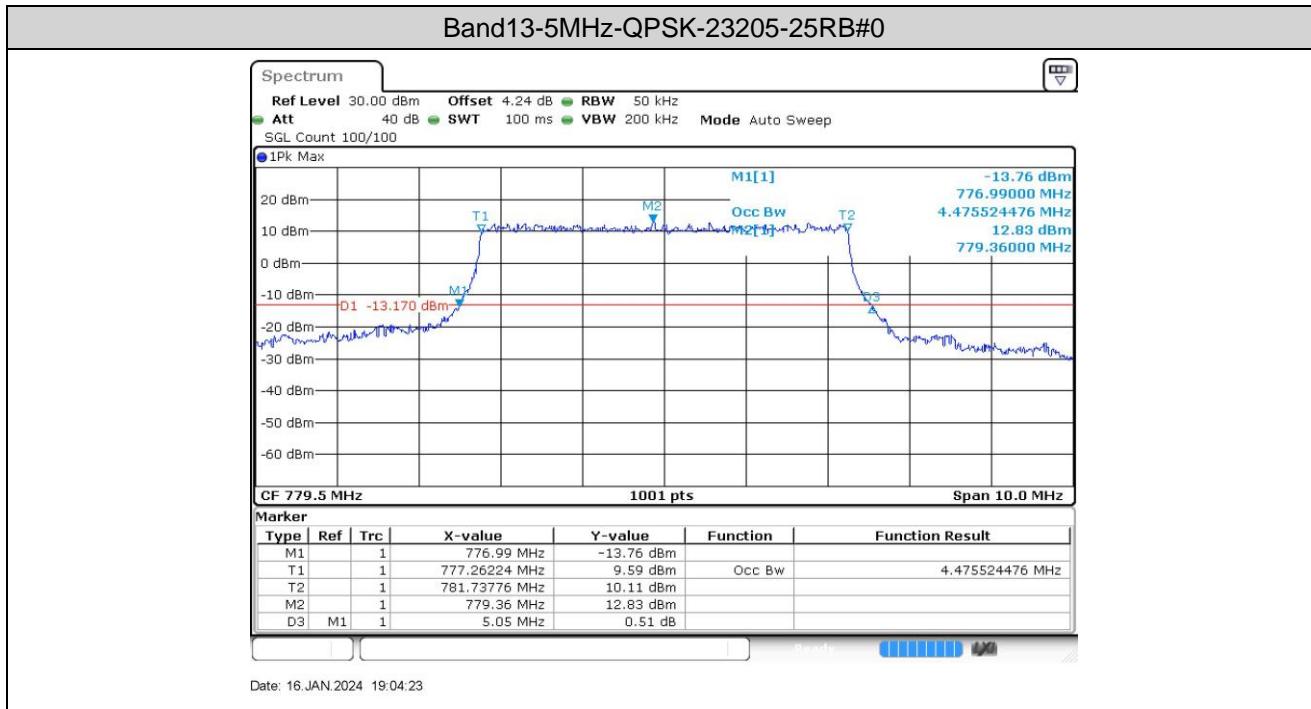
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## Test Graphs



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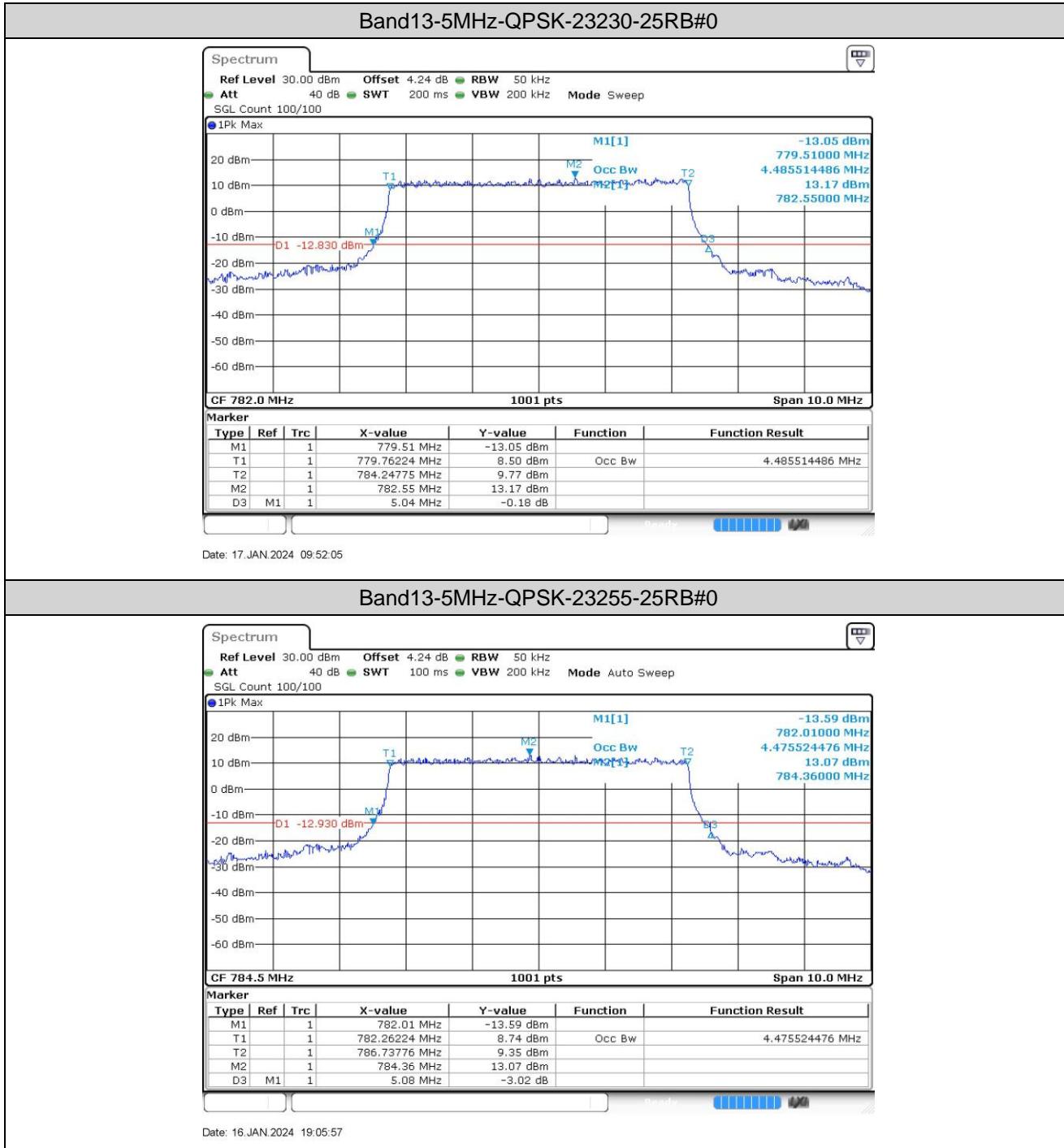
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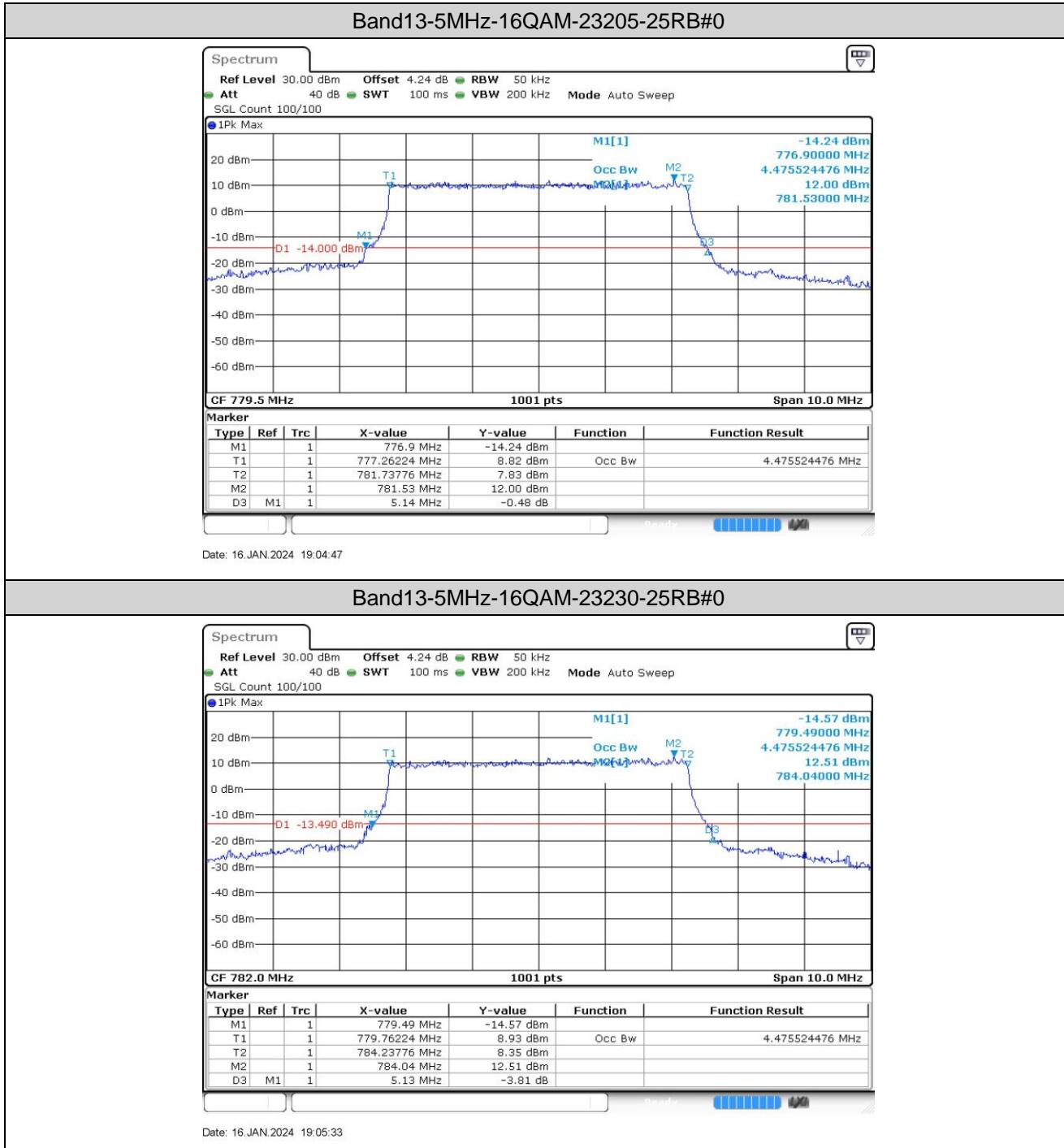
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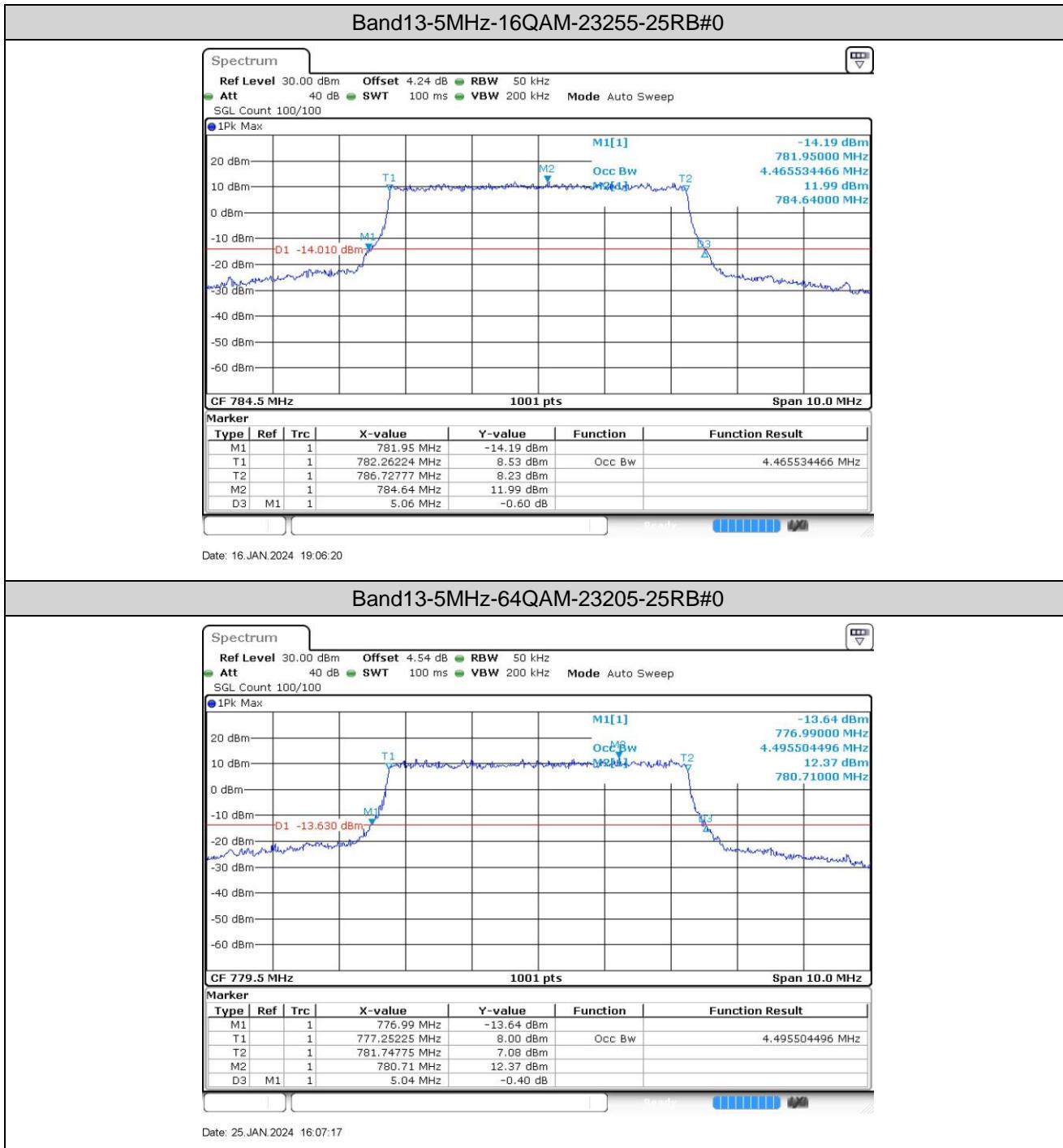
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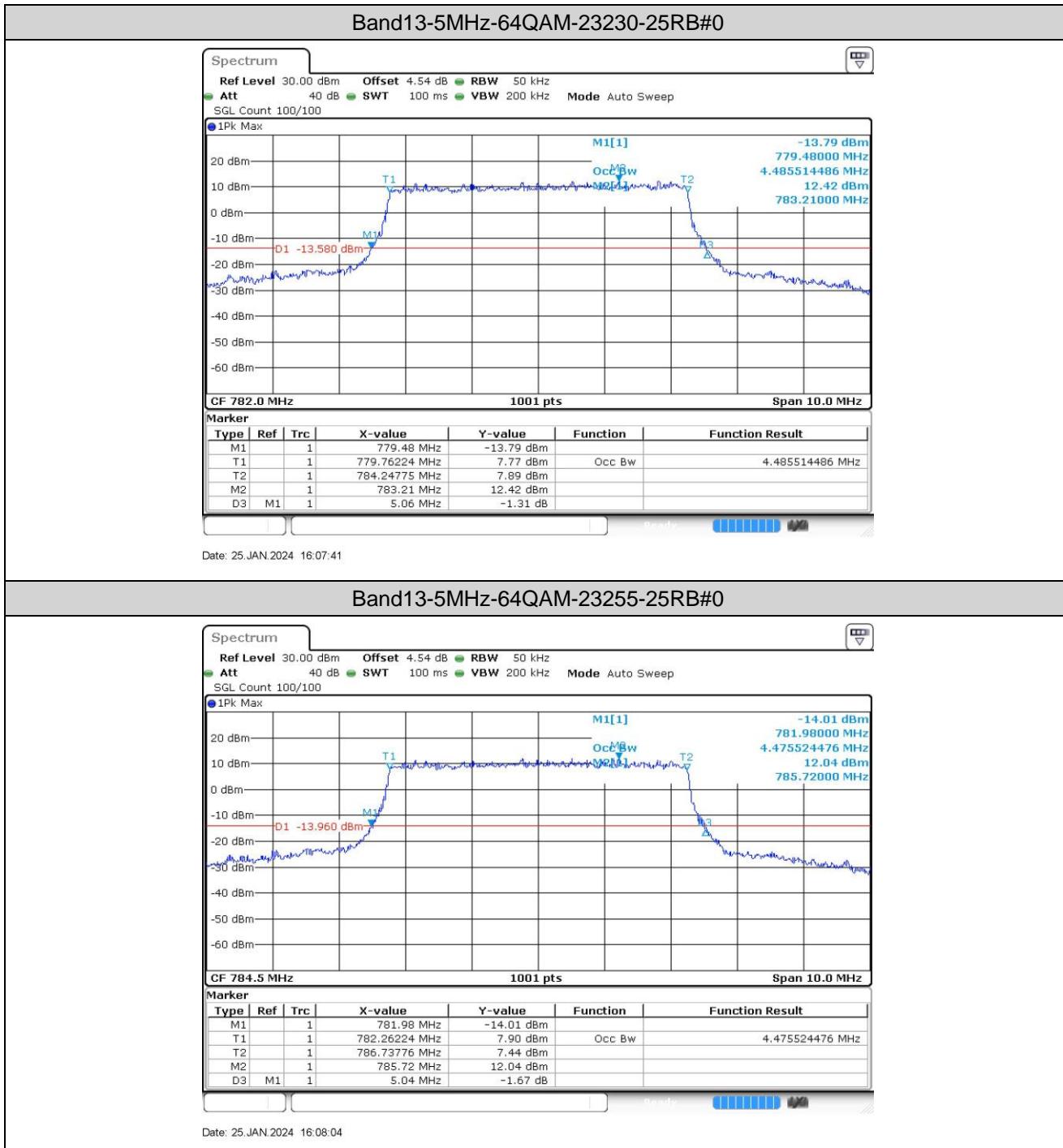
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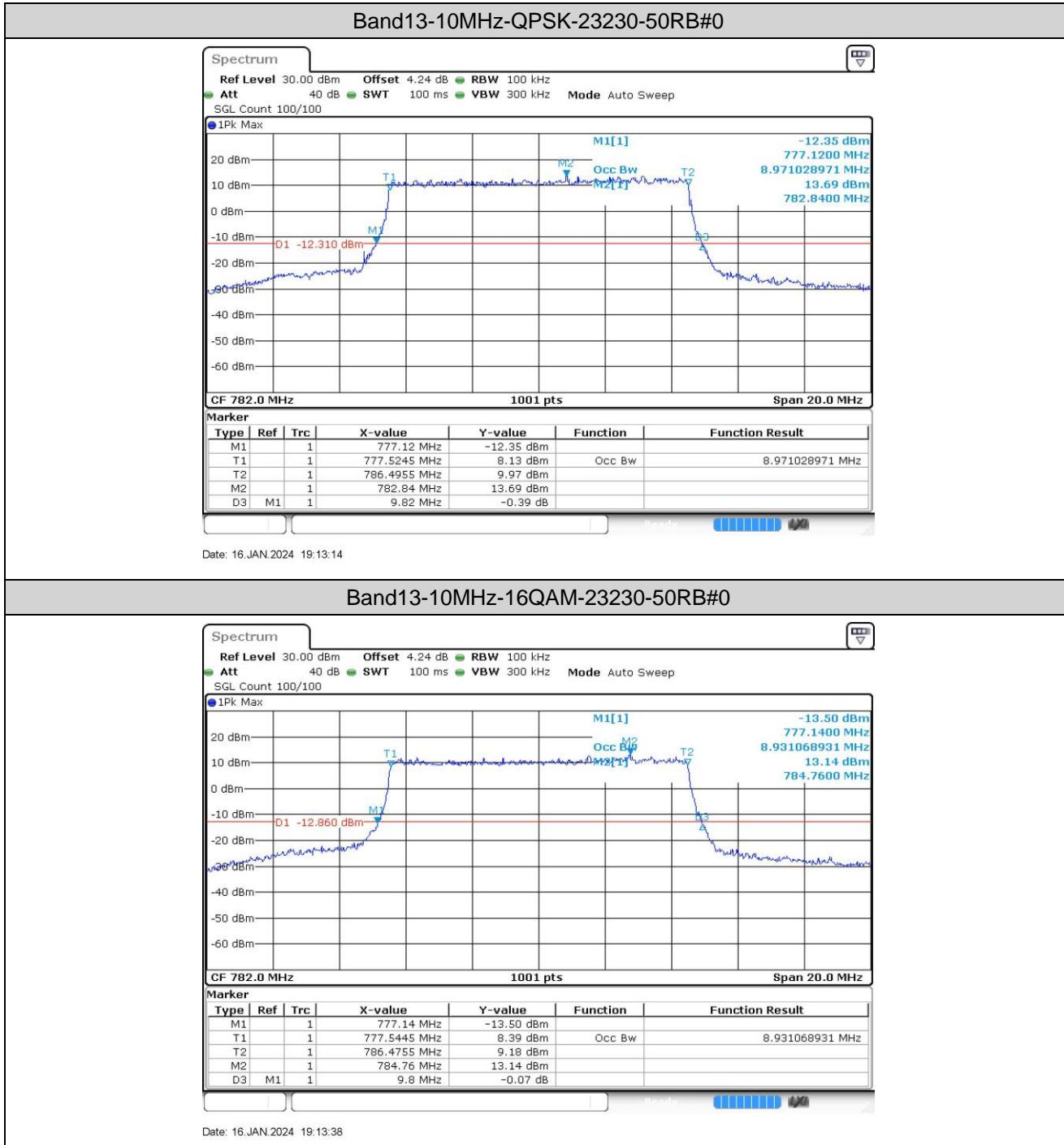
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## Shenzhen Branch

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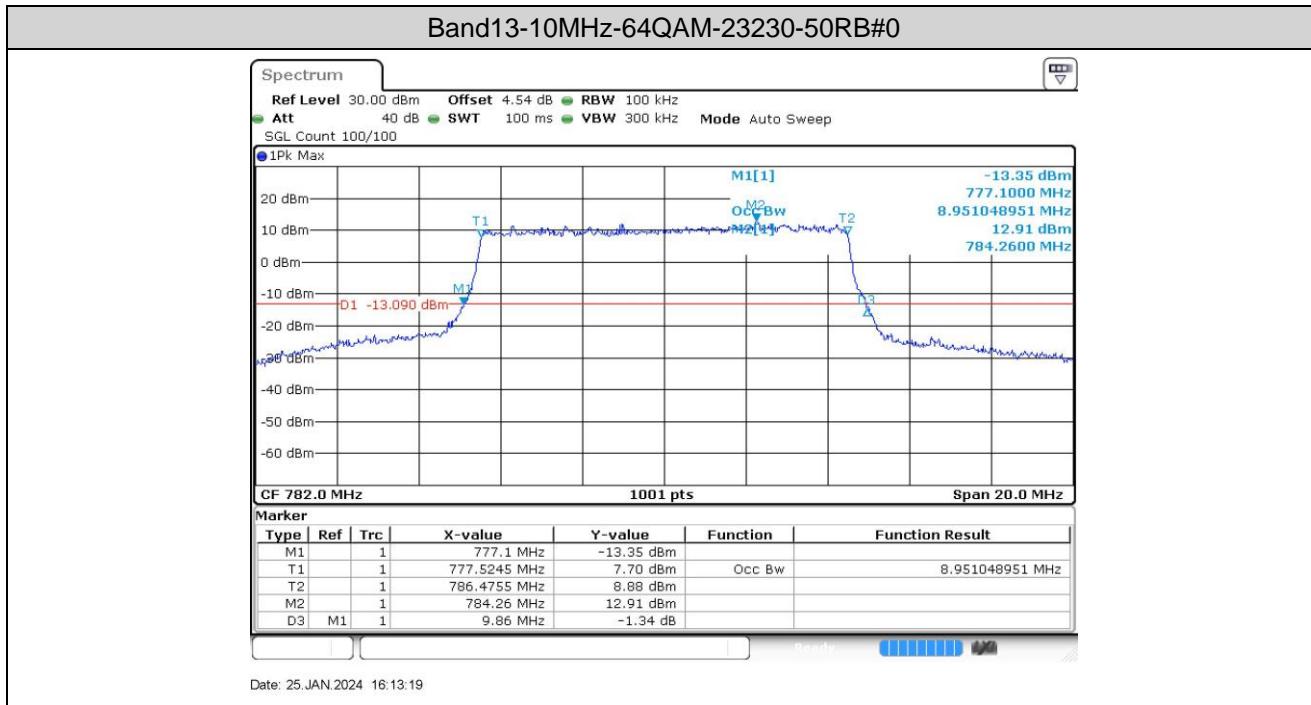
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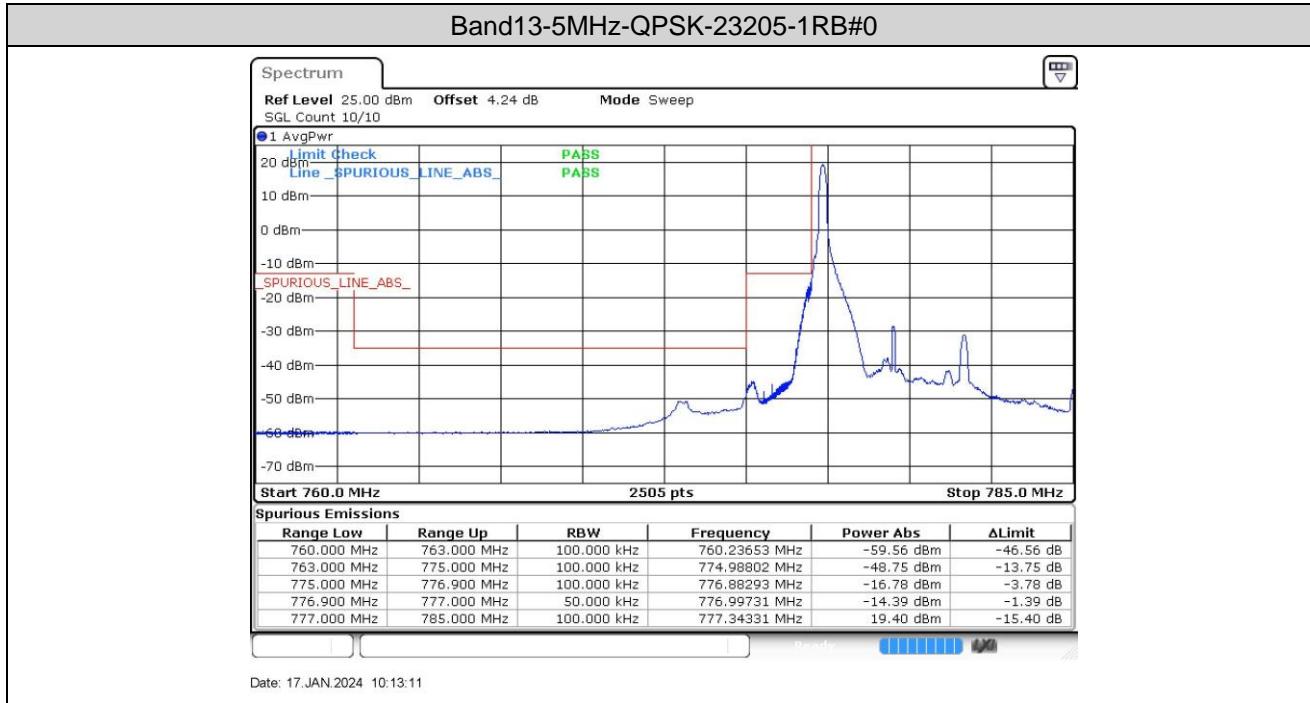
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## Band Edge

### Test Graphs



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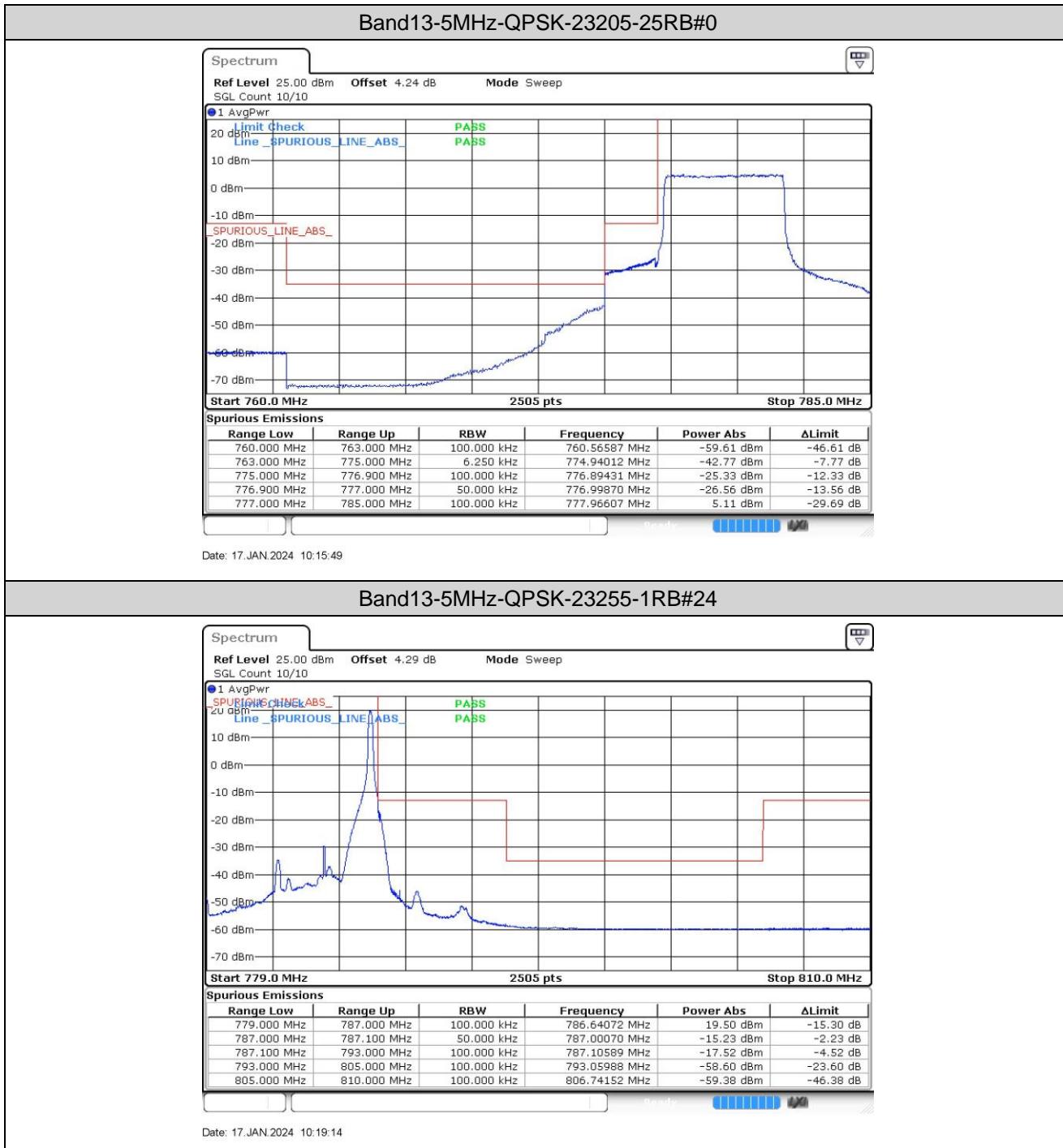
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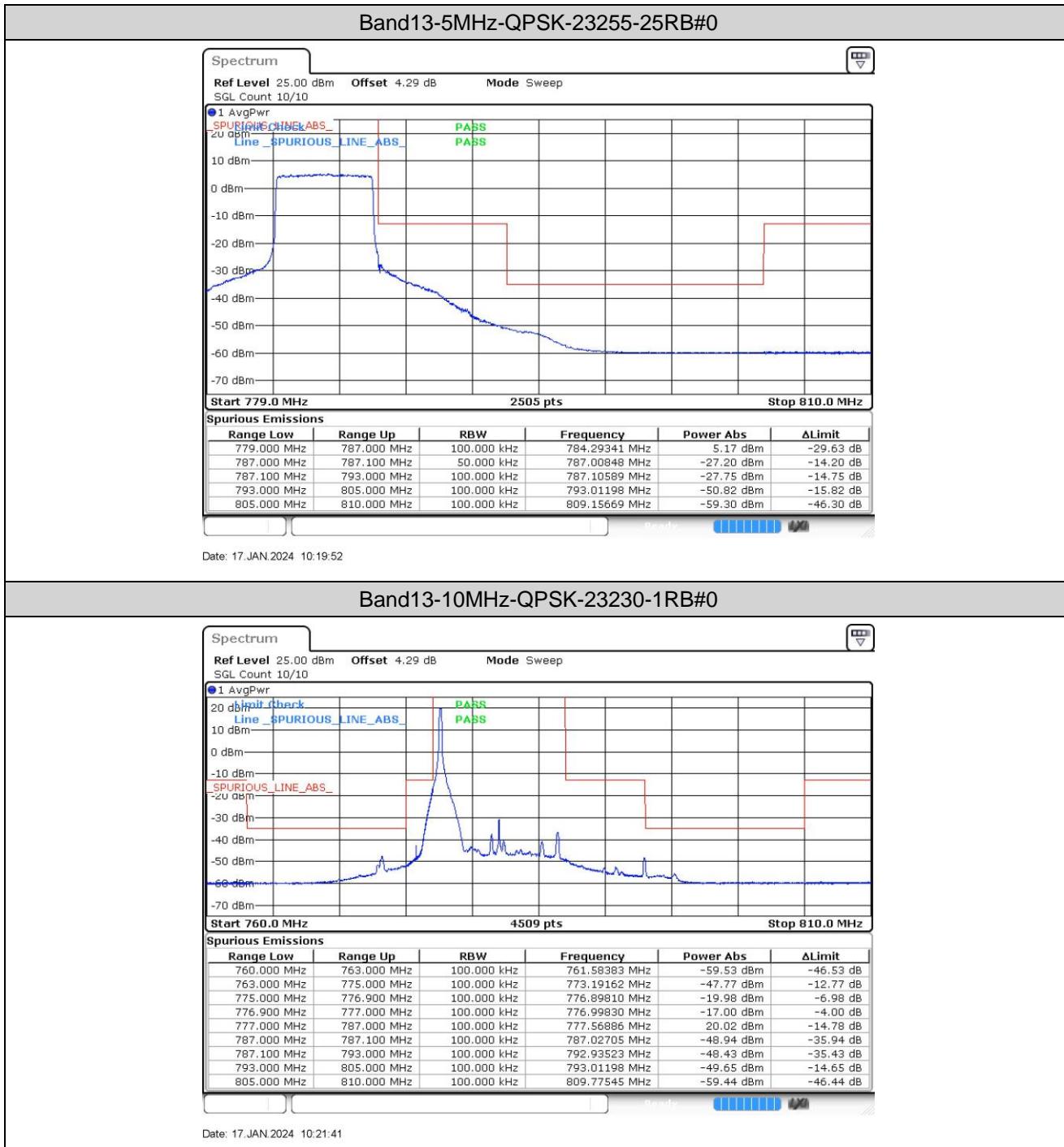
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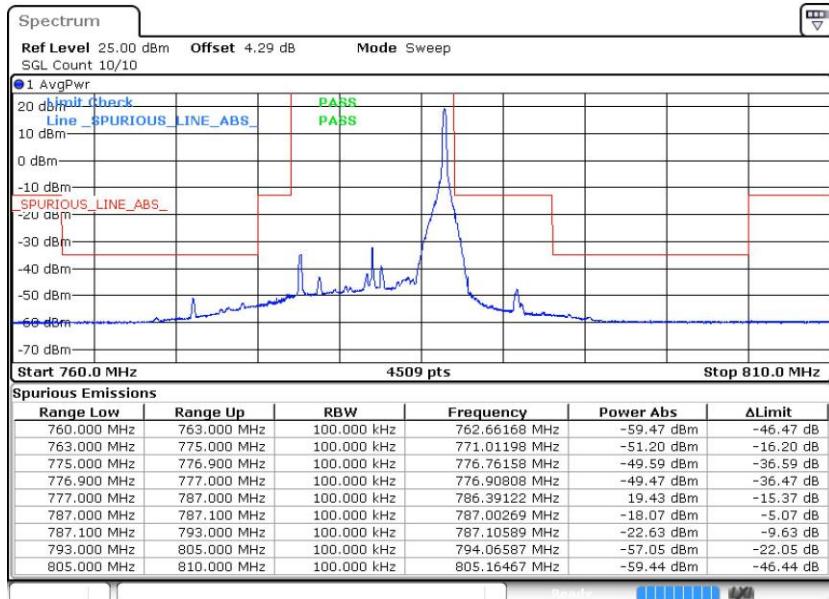


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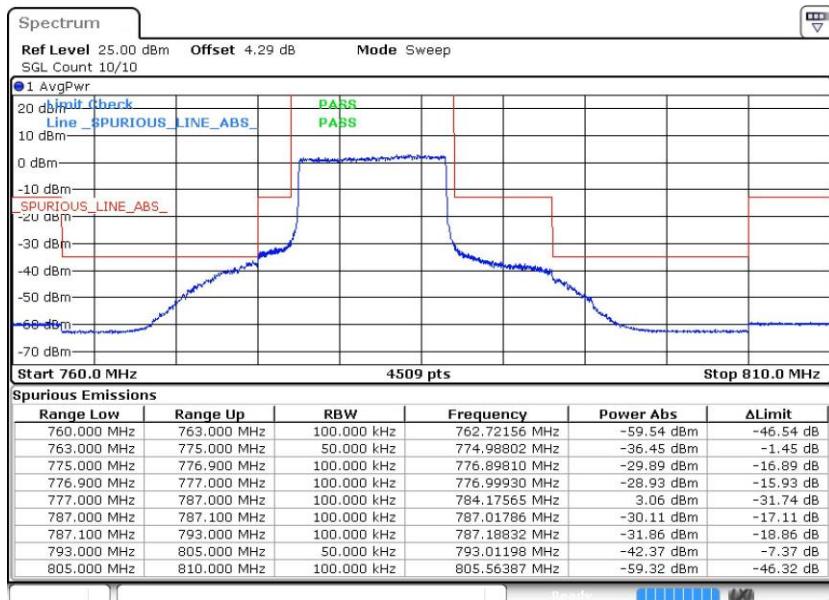
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### Band13-10MHz-QPSK-23230-1RB#49



Date: 17.JAN.2024 10:22:25

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



Date: 17.JAN.2024 10:23:55



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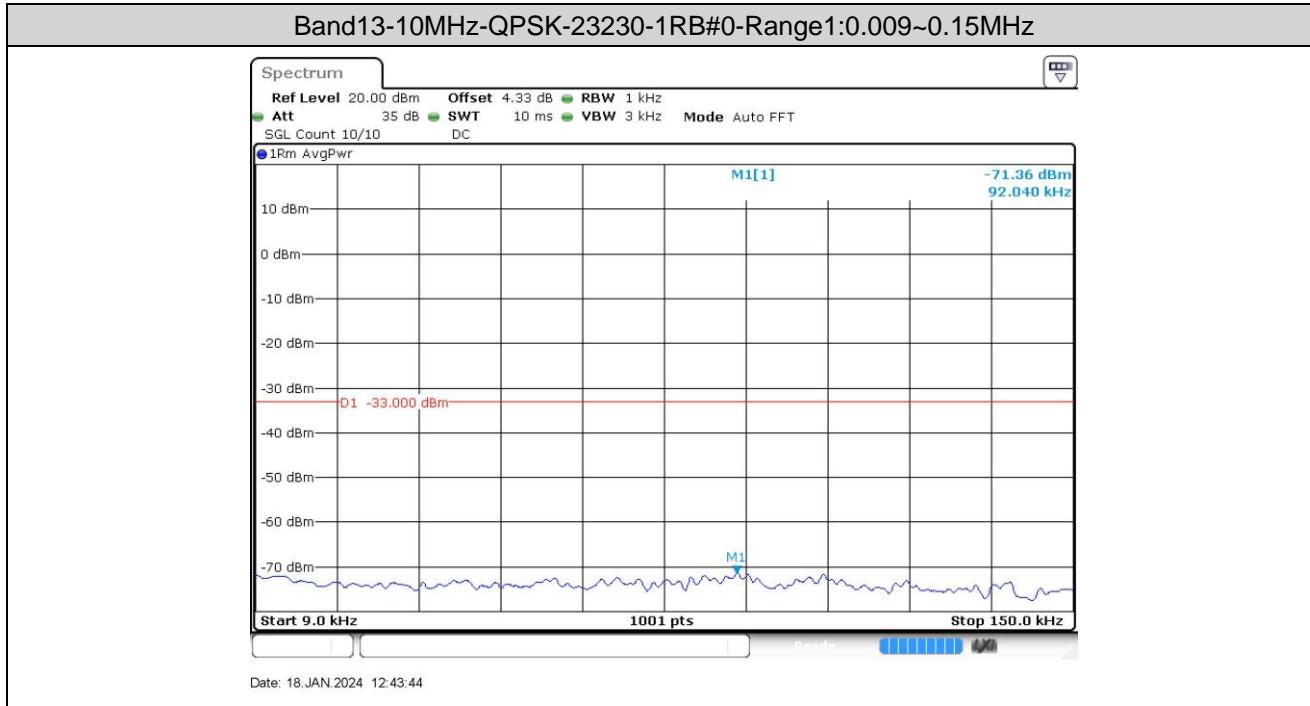
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## Conducted Spurious Emission

### Test Graphs



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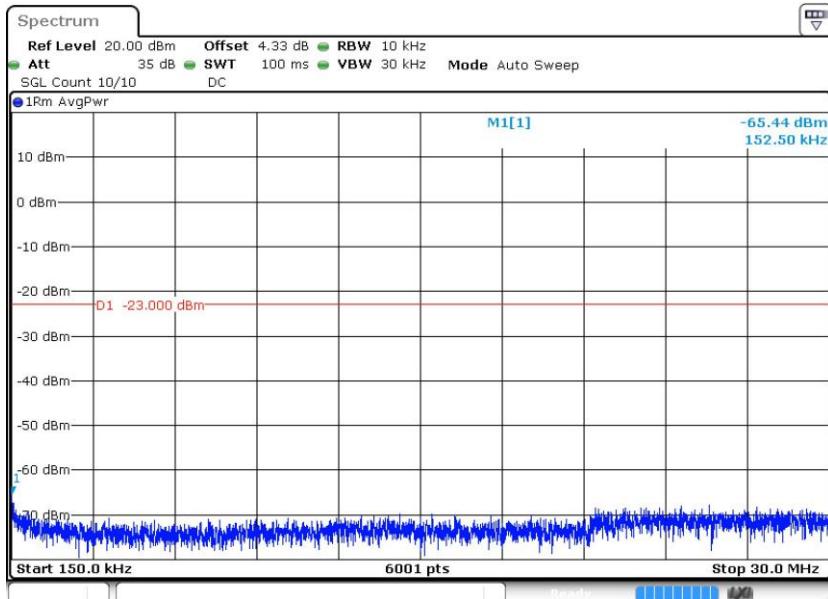


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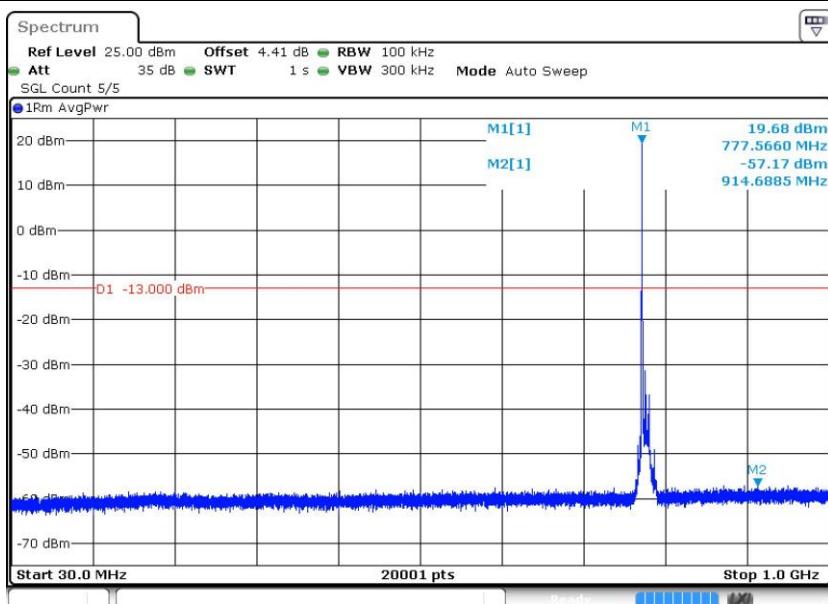
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### Band13-10MHz-QPSK-23230-1RB#0-Range2:0.15~30MHz



Date: 18.JAN.2024 12:43:47

### Band13-10MHz-QPSK-23230-1RB#0-Range3:30~1000MHz



Date: 18.JAN.2024 12:43:56



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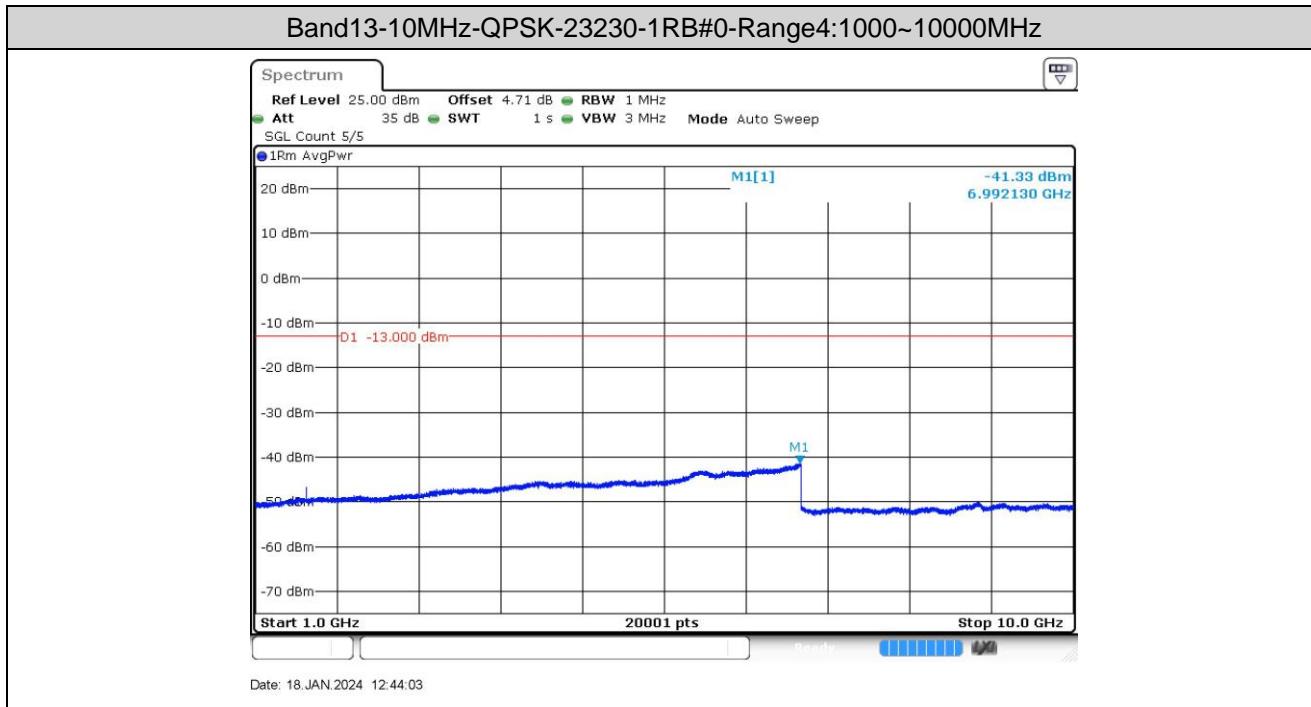
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## Field Strength of Spurious Radiation

**Test Band = B13\_ 10M\_TM1**

**Test Channel = mid channel**

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.6222	64.29	24.66	-48.97	-55.28	-13.00	42.28	Horizontal
2	2332.5033	68.66	27.00	-48.26	-47.86	-13.00	34.86	Horizontal
3	3109.9144	64.35	28.62	-47.80	-50.09	-13.00	37.09	Horizontal
4	3887.7955	49.28	29.32	-47.20	-63.86	-13.00	50.86	Horizontal
5	4691.0000	44.78	30.66	-46.98	-66.80	-13.00	53.80	Horizontal
6	5442.5000	45.37	32.46	-46.83	-64.26	-13.00	51.26	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555.0922	61.60	24.67	-48.96	-57.95	-13.00	44.95	Vertical
2	2332.5033	67.75	27.00	-48.26	-48.77	-13.00	35.77	Vertical
3	3109.9144	57.66	28.62	-47.80	-56.78	-13.00	43.78	Vertical
4	3888.2655	49.37	29.32	-47.20	-63.77	-13.00	50.77	Vertical
5	4691.9977	48.89	30.66	-46.98	-62.69	-13.00	49.69	Vertical
6	5442.5000	45.25	32.46	-46.83	-64.38	-13.00	51.38	Vertical

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**Test Band = B13\_5M\_TM1**  
**Test Channel = low channel**

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.6222	65.31	24.66	-48.97	-54.26	-13.00	41.26	Horizontal
2	2332.0333	68.78	27.00	-48.26	-47.74	-13.00	34.74	Horizontal
3	3108.9744	63.98	28.62	-47.81	-50.47	-13.00	37.47	Horizontal
4	3886.3855	49.28	29.32	-47.20	-63.86	-13.00	50.86	Horizontal
5	4663.5000	45.87	30.59	-46.99	-65.79	-13.00	52.79	Horizontal
6	5440.7500	45.21	32.46	-46.83	-64.42	-13.00	51.42	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.6222	60.84	24.66	-48.97	-58.73	-13.00	45.73	Vertical
2	2331.5633	67.05	27.00	-48.26	-49.47	-13.00	36.47	Vertical
3	3108.9744	58.18	28.62	-47.81	-56.27	-13.00	43.27	Vertical
4	3886.8555	49.64	29.32	-47.20	-63.50	-13.00	50.50	Vertical
5	4676.9571	49.28	30.62	-46.99	-62.35	-13.00	49.35	Vertical
6	5440.7500	45.78	32.46	-46.83	-63.85	-13.00	50.85	Vertical

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**Test Band = B13\_5M\_TM1**
**Test Channel = mid channel**

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1559.3224	66.76	24.68	-48.96	-52.78	-40.00	12.78	Horizontal
2	2339.5536	68.42	27.01	-48.26	-48.09	-13.00	35.09	Horizontal
3	3119.3148	64.62	28.62	-47.76	-49.78	-13.00	36.78	Horizontal
4	3899.076	50.34	29.34	-47.16	-62.74	-13.00	49.74	Horizontal
5	4678.5000	46.18	30.63	-46.99	-65.44	-13.00	52.44	Horizontal
6	5458.2500	46.01	32.50	-46.88	-63.63	-13.00	50.63	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1559.3224	67.11	24.68	-48.96	-52.43	-40.00	12.43	Vertical
2	2339.5536	71.15	27.01	-48.26	-45.36	-13.00	32.36	Vertical
3	3119.3148	61.52	28.62	-47.76	-52.88	-13.00	39.88	Vertical
4	3899.076	53.30	29.34	-47.16	-59.78	-13.00	46.78	Vertical
5	4691.9977	50.57	30.66	-46.98	-61.01	-13.00	48.01	Vertical
6	5458.2500	45.75	32.50	-46.88	-63.89	-13.00	50.89	Vertical

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**Test Band = B13\_5M\_TM1**
**Test Channel = high channel**

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1564.4926	66.75	24.69	-48.96	-52.78	-40.00	12.78	Horizontal
2	2346.6039	73.16	27.03	-48.26	-43.33	-13.00	30.33	Horizontal
3	3129.1852	63.96	28.63	-47.71	-50.38	-13.00	37.38	Horizontal
4	3911.7665	52.32	29.36	-47.18	-60.76	-13.00	47.76	Horizontal
5	4693.5000	45.26	30.67	-46.98	-66.31	-13.00	53.31	Horizontal
6	5745.7500	44.39	32.50	-46.93	-65.30	-13.00	52.30	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1564.4926	64.44	24.69	-48.96	-55.09	-40.00	15.09	Vertical
2	2347.0739	70.61	27.03	-48.26	-45.88	-13.00	32.88	Vertical
3	3129.1852	59.12	28.63	-47.71	-55.22	-13.00	42.22	Vertical
4	3911.7665	51.31	29.36	-47.18	-61.77	-13.00	48.77	Vertical
5	4707.0383	50.27	30.70	-46.98	-61.27	-13.00	48.27	Vertical
6	5745.7500	44.94	32.50	-46.93	-64.75	-13.00	51.75	Vertical

**Remark:**

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

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## Frequency Stability

### Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict	
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	-7.50	-0.009591	PASS	
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	-2.80	-0.003581	PASS	
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	-4.30	-0.005499	PASS	

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict	
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	-5.50	-0.007033	PASS	
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	-9.30	-0.011893	PASS	
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	-6.30	-0.008056	PASS	
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-6.40	-0.008184	PASS	
Band13	10MHz	QPSK	23230	50RB#0	NV	10	-11.70	-0.014962	PASS	
Band13	10MHz	QPSK	23230	50RB#0	NV	20	-11.60	-0.014834	PASS	
Band13	10MHz	QPSK	23230	50RB#0	NV	30	-4.60	-0.005882	PASS	
Band13	10MHz	QPSK	23230	50RB#0	NV	40	-8.60	-0.010997	PASS	
Band13	10MHz	QPSK	23230	50RB#0	NV	50	-4.30	-0.005499	PASS	

---End of Attachment---



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