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# Appendix B.6

## LTE Band 13



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	22.97	27.42	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	22.95	27.4	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.00	27.45	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.10	26.55	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.00	27.45	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.08	27.53	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.04	27.49	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.12	26.57	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.06	27.51	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.07	27.52	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.02	27.47	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.11	26.56	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.16	26.61	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.25	26.7	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.27	26.72	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.13	25.58	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.29	26.74	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.38	26.83	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.29	26.74	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.15	25.6	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.28	26.73	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.37	26.82	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.32	26.77	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.15	25.6	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#0	21.16	25.61	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#12	21.16	25.61	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#24	21.26	25.71	34.77	PASS



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Band13	5MHz	64QAM	23205	25RB#0	20.14	24.59	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#0	21.15	25.6	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#12	21.26	25.71	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#24	21.22	25.67	34.77	PASS
Band13	5MHz	64QAM	23230	25RB#0	20.10	24.55	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#0	21.22	25.67	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#12	21.30	25.75	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#24	21.23	25.68	34.77	PASS
Band13	5MHz	64QAM	23255	25RB#0	20.11	24.56	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.01	27.46	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.09	27.54	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	22.98	27.43	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.13	26.58	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.21	26.66	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.29	26.74	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.25	26.7	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.14	25.59	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	21.20	25.65	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#24	21.27	25.72	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	21.12	25.57	34.77	PASS
Band13	10MHz	64QAM	23230	50RB#0	20.15	24.6	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	5.54	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.36	13	PASS
Band13	10MHz	64QAM	23230	50RB#0	6.56	13	PASS



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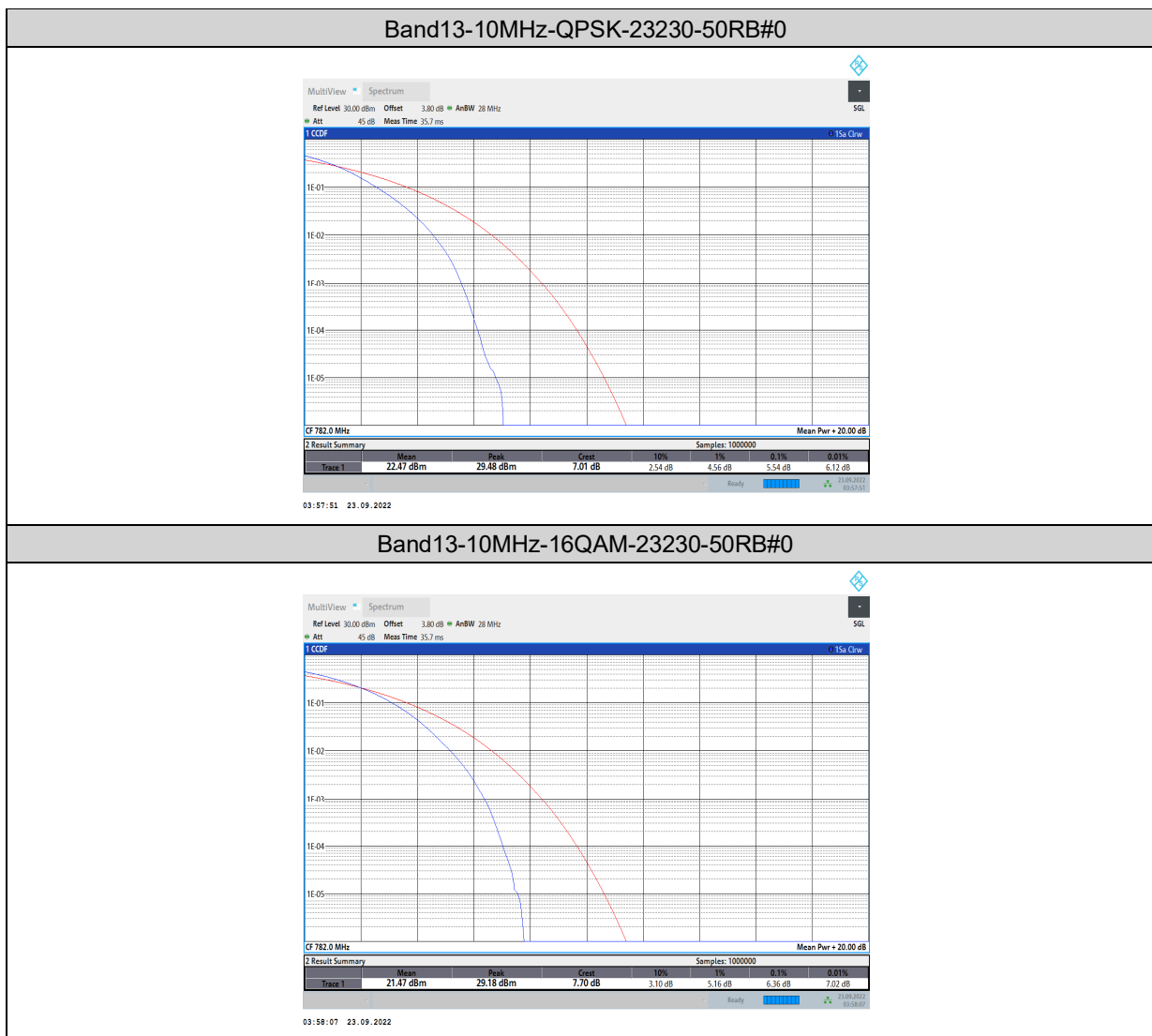
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### Test Graphs



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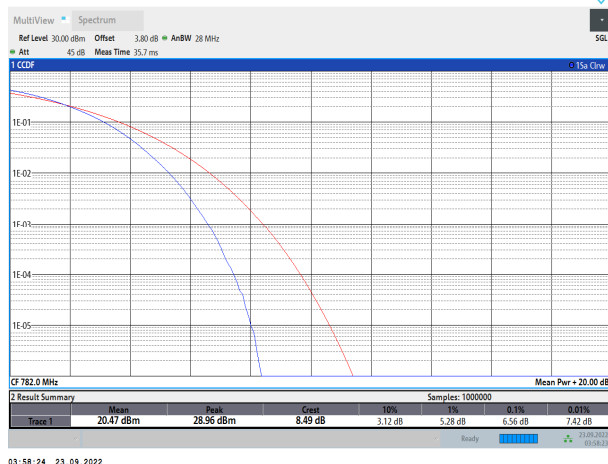
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### Band13-10MHz-64QAM-23230-50RB#0



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## Modulation Characteristics

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band13	10MHz	QPSK	23230	50RB#0	PASS	PASS
Band13	10MHz	16QAM	23230	50RB#0	PASS	PASS
Band13	10MHz	64QAM	23230	50RB#0	PASS	PASS



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### Test Graphs



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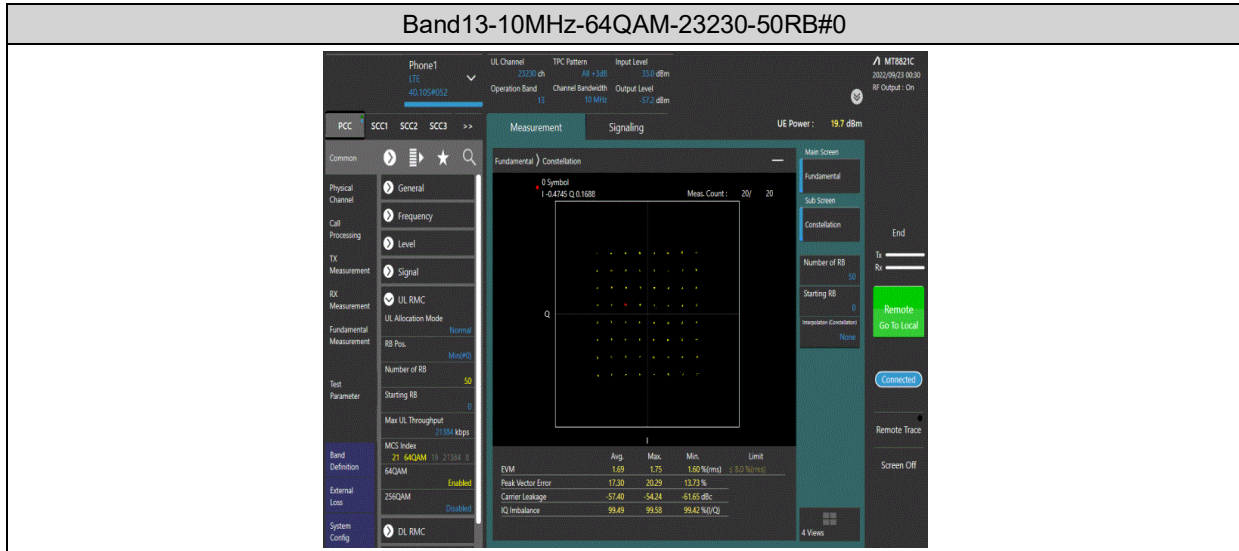


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### Band13-10MHz-64QAM-23230-50RB#0



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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	4.46	4.88	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.473	4.88	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.475	4.91	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.459	4.87	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.471	4.90	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.472	4.91	PASS
Band13	5MHz	64QAM	23205	25RB#0	4.47	4.88	PASS
Band13	5MHz	64QAM	23230	25RB#0	4.485	4.91	PASS
Band13	5MHz	64QAM	23255	25RB#0	4.481	4.90	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.921	9.60	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.902	9.60	PASS
Band13	10MHz	64QAM	23230	50RB#0	8.918	9.64	PASS



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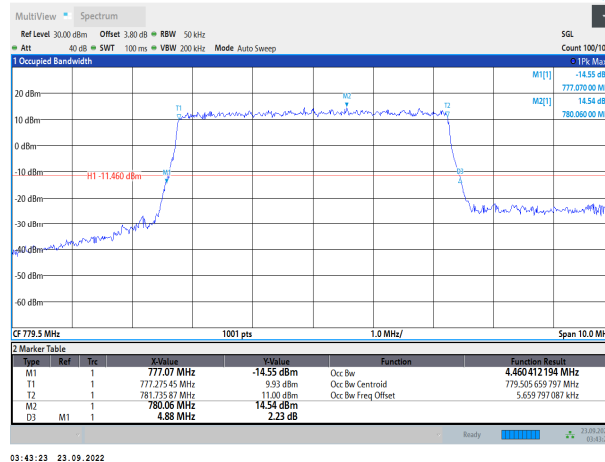
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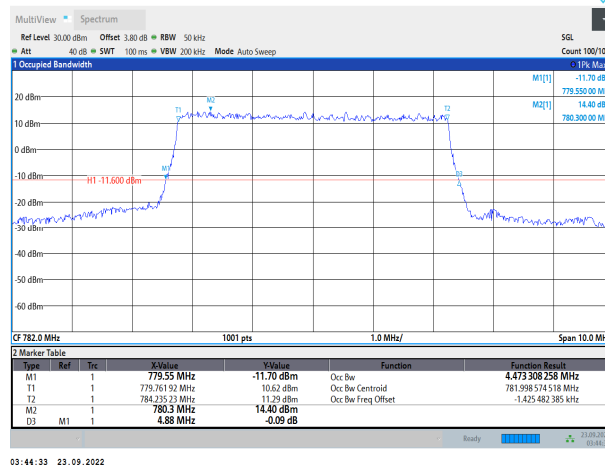
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### Test Graphs

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



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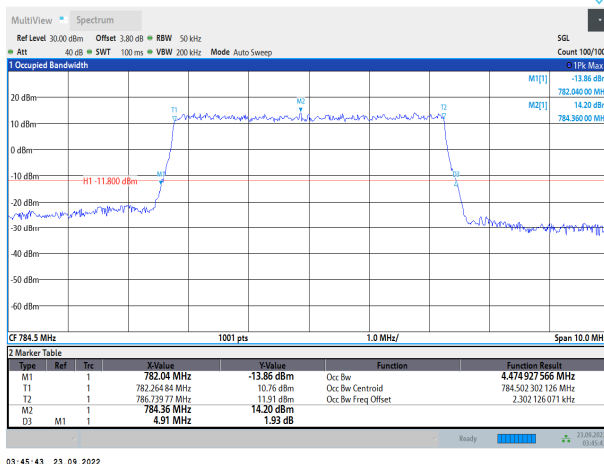
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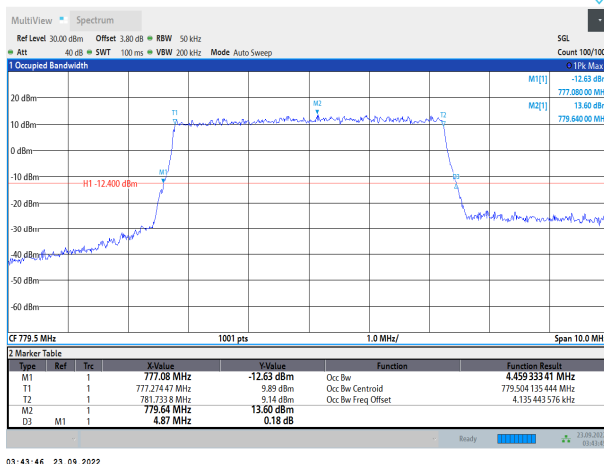
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### Band13-5MHz-QPSK-23255-25RB#0



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



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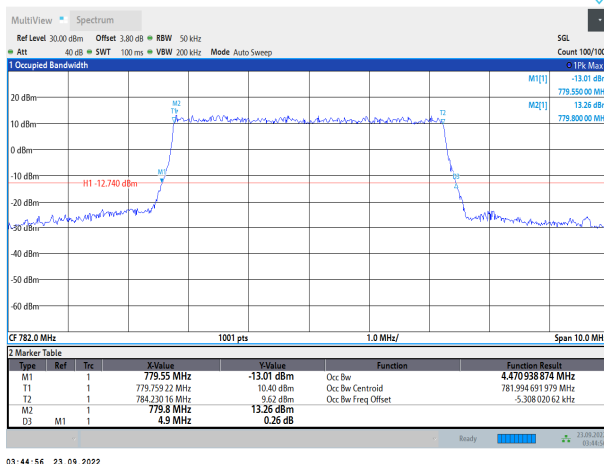
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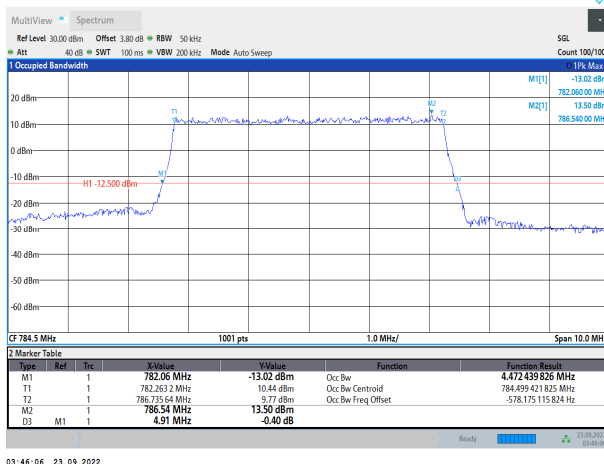
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### Band13-5MHz-16QAM-23230-25RB#0



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



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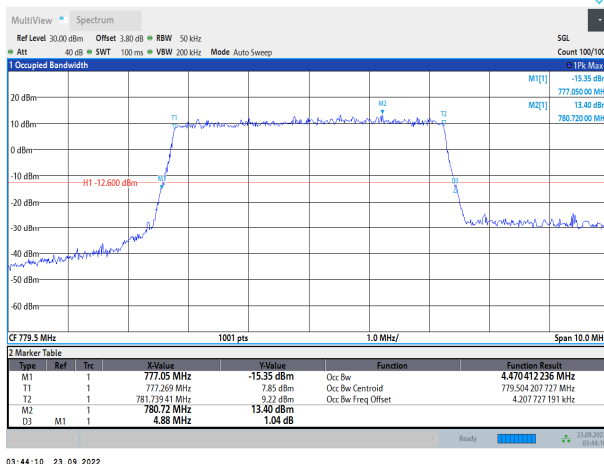
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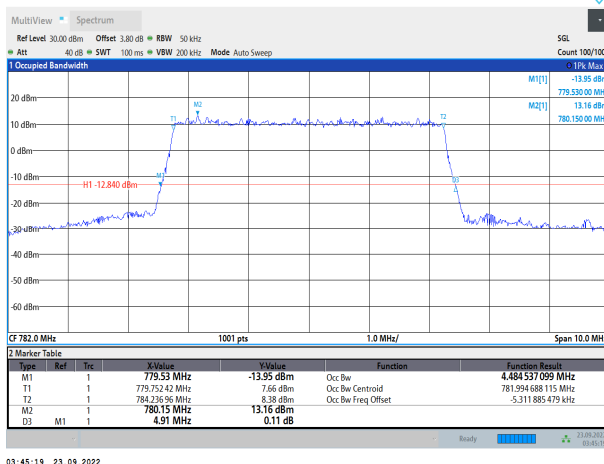
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### Band13-5MHz-64QAM-23205-25RB#0



### Band13-5MHz-64QAM-23230-25RB#0



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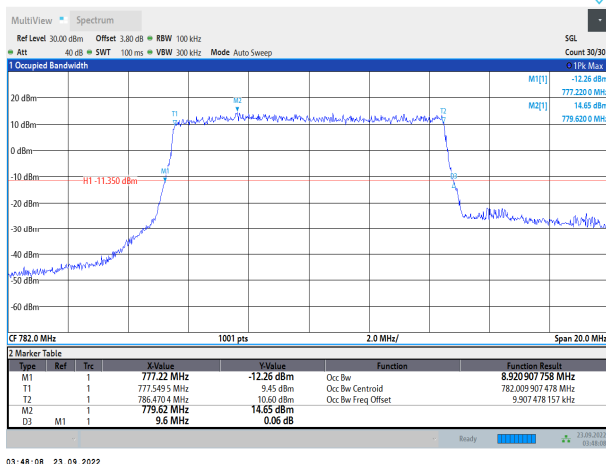
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### Band13-5MHz-64QAM-23255-25RB#0



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

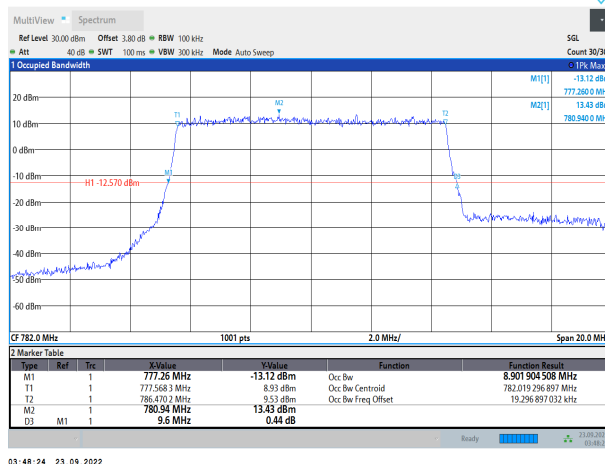


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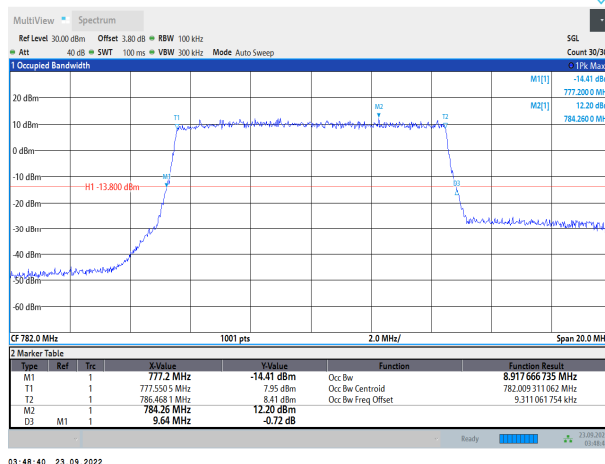
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### Band13-10MHz-16QAM-23230-50RB#0



### Band13-10MHz-64QAM-23230-50RB#0



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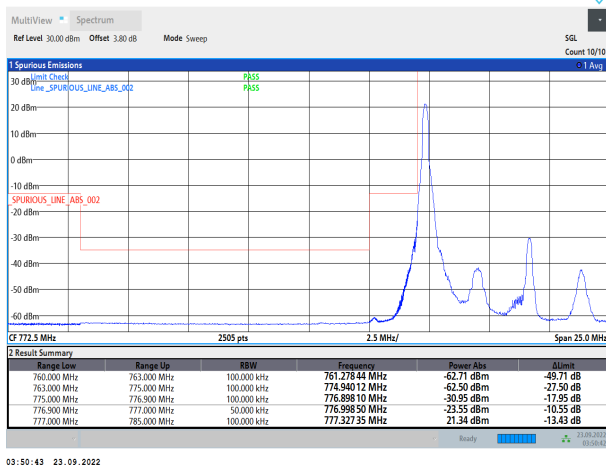
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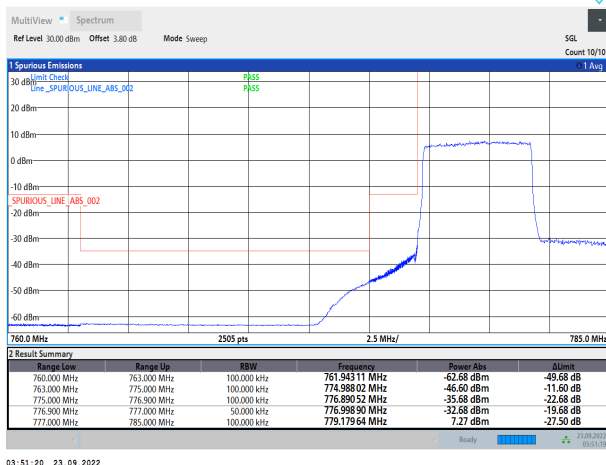
### Band Edge

### Test Graphs

#### Band13-5MHz-QPSK-23205-1RB#0



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



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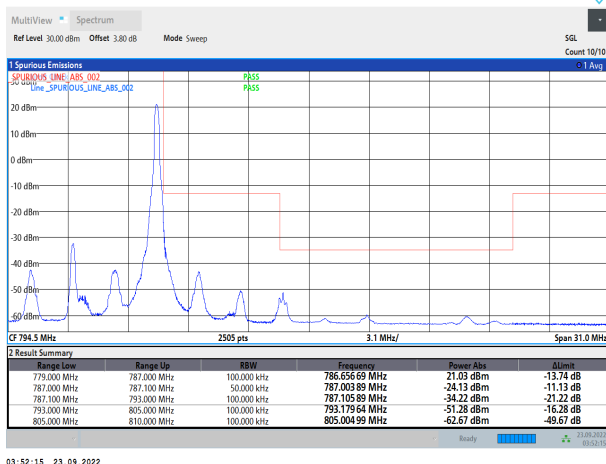
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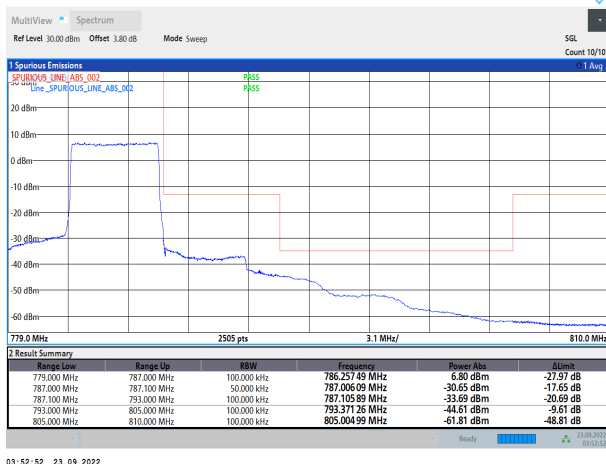
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### Band13-5MHz-QPSK-23255-1RB#24



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



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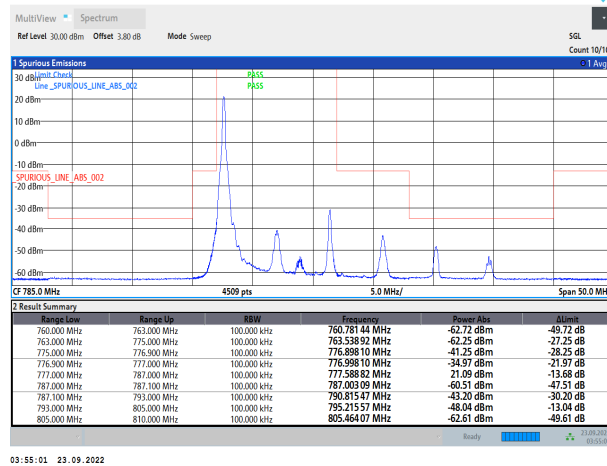
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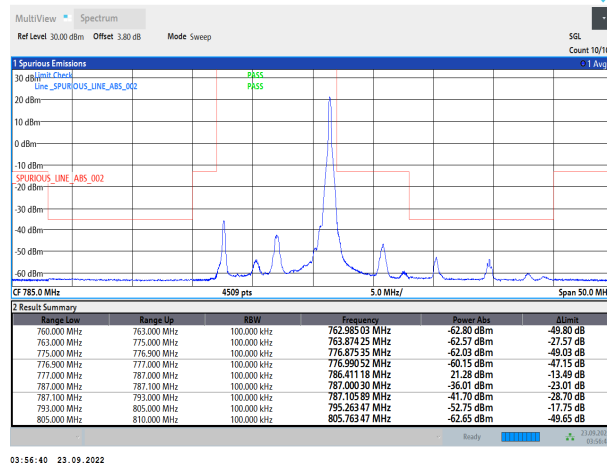
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### Band13-10MHz-QPSK-23230-1RB#0



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



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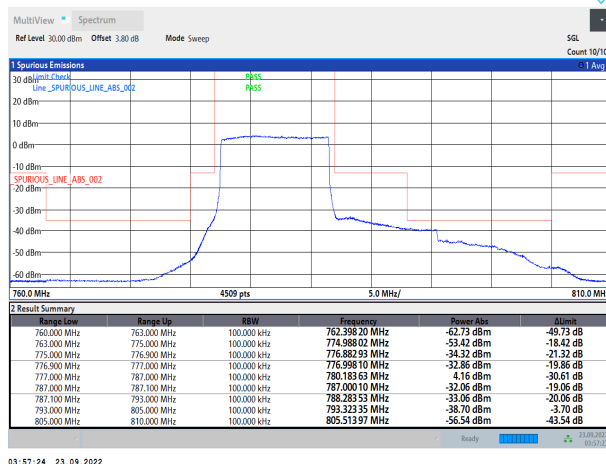
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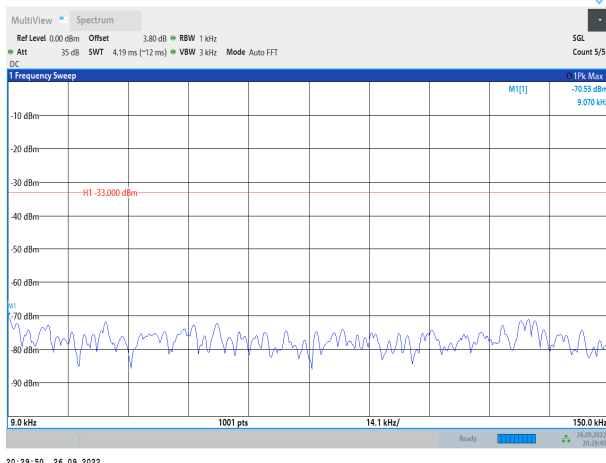
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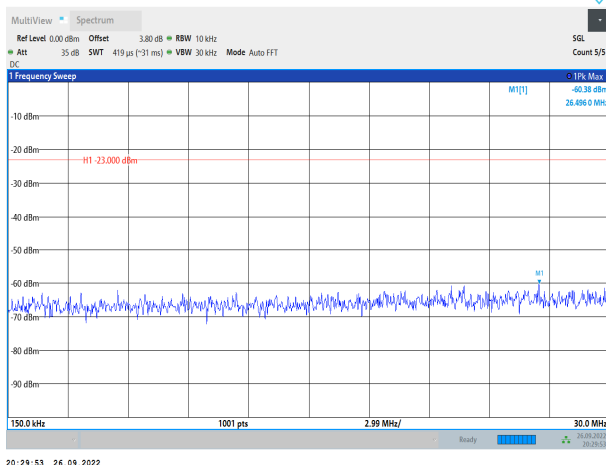
### Conducted Spurious Emission

#### Test Graphs

Band13-10MHz-QPSK-23230-1RB#0-Range1:0.009~0.15MHz



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



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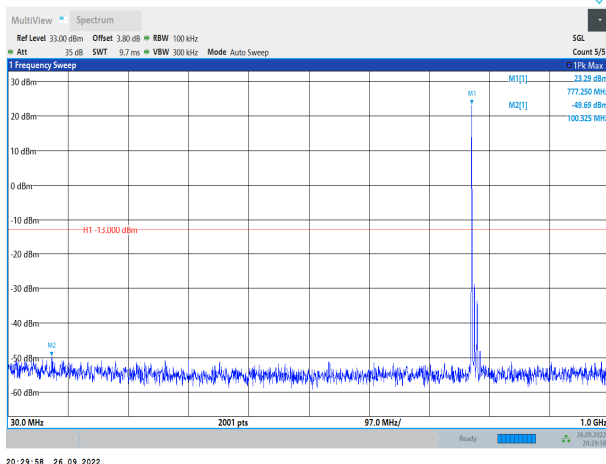
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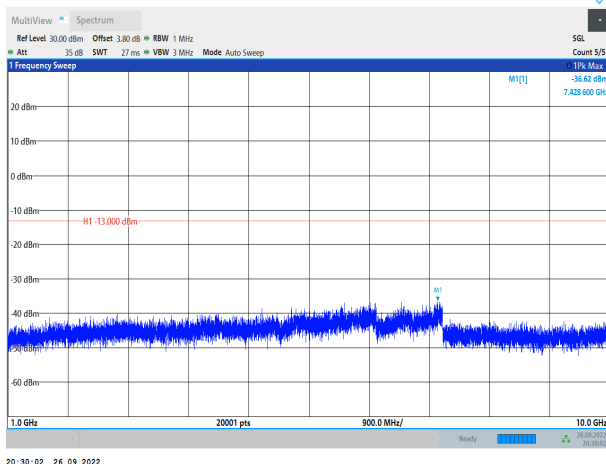
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### Band13-10MHz-QPSK-23230-1RB#0-Range3:30~1000MHz



### Band13-10MHz-QPSK-23230-1RB#0-Range4:1000~10000MHz



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## Field Strength of Spurious Radiation

Test Band = LTE Band 13\_10M\_ TM1

Test Channel = Mid

## Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1555.1800	55.23	-48.30	25.41	-62.92	-13.00	49.92	163	13	Horizontal
2	2332.7700	53.75	-47.48	27.41	-61.59	-13.00	48.59	251	319	Horizontal
3	3110.3600	50.68	-46.70	29.53	-61.75	-13.00	48.75	142	185	Horizontal
4	3887.9500	49.37	-46.22	30.54	-61.57	-13.00	48.57	178	104	Horizontal
5	4665.5400	48.47	-45.80	31.91	-60.68	-13.00	47.68	218	306	Horizontal
6	5443.1300	48.74	-45.04	32.85	-58.72	-13.00	45.72	229	104	Horizontal

## Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1555.1800	54.08	-48.30	25.41	-64.07	-13.00	51.07	264	354	Vertical
2	2332.7700	52.95	-47.48	27.41	-62.39	-13.00	49.39	159	94	Vertical
3	3110.3600	49.84	-46.70	29.53	-62.59	-13.00	49.59	271	360	Vertical
4	3887.9500	47.59	-46.22	30.54	-63.35	-13.00	50.35	229	54	Vertical
5	4665.5400	47.08	-45.80	31.91	-62.07	-13.00	49.07	176	161	Vertical
6	5443.1300	47.46	-45.04	32.85	-60.00	-13.00	47.00	192	14	Vertical



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Test Band = LTE Band 13\_5M\_TM1

Test Channel = Low

## Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1554.6800	56.93	-48.30	25.41	-61.22	-13.00	48.22	169	293	Horizontal
2	2332.0200	50.21	-47.48	27.41	-65.13	-13.00	52.13	215	157	Horizontal
3	3109.3600	50.90	-46.71	29.53	-61.53	-13.00	48.53	223	212	Horizontal
4	3886.7000	48.70	-46.22	30.53	-62.25	-13.00	49.25	172	90	Horizontal
5	4664.0400	48.62	-45.80	31.91	-60.53	-13.00	47.53	164	279	Horizontal
6	5441.3800	47.42	-45.04	32.85	-60.04	-13.00	47.04	183	319	Horizontal

## Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1554.6800	54.88	-48.30	25.41	-63.27	-13.00	50.27	169	323	Vertical
2	2332.0200	50.74	-47.48	27.41	-64.60	-13.00	51.60	214	4	Vertical
3	3109.3600	50.22	-46.71	29.53	-62.21	-13.00	49.21	225	148	Vertical
4	3886.7000	48.53	-46.22	30.53	-62.42	-13.00	49.42	176	188	Vertical
5	4664.0400	47.03	-45.80	31.91	-62.12	-13.00	49.12	251	148	Vertical
6	5441.3800	49.98	-45.04	32.85	-57.48	-13.00	44.48	226	148	Vertical



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Test Band = LTE Band 13\_5M\_TM1

Test Channel = Mid

## Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1559.6800	56.74	-48.30	25.40	-61.41	-40.00	21.41	167	293	Horizontal
2	2339.5200	50.15	-47.48	27.41	-65.18	-13.00	52.18	214	319	Horizontal
3	3119.3600	49.58	-46.66	29.55	-62.79	-13.00	49.79	225	90	Horizontal
4	3899.2000	48.56	-46.23	30.56	-62.37	-13.00	49.37	193	0	Horizontal
5	4679.0400	46.68	-45.80	31.95	-62.43	-13.00	49.43	263	210	Horizontal
6	5458.8800	47.51	-45.07	32.87	-59.96	-13.00	46.96	251	1	Horizontal

## Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1559.6800	54.82	-48.30	25.40	-63.33	-40.00	23.33	163	323	Vertical
2	2339.5200	50.34	-47.48	27.41	-64.99	-13.00	51.99	193	359	Vertical
3	3119.3600	50.44	-46.66	29.55	-61.93	-13.00	48.93	157	4	Vertical
4	3899.2000	48.47	-46.23	30.56	-62.46	-13.00	49.46	214	148	Vertical
5	4679.0400	47.15	-45.80	31.95	-61.96	-13.00	48.96	226	323	Vertical
6	5458.8800	47.72	-45.07	32.87	-59.75	-13.00	46.75	283	174	Vertical



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**Test Band = LTE Band 13\_5M\_TM1**
**Test Channel = High**
**Final Data List**

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1564.6800	57.25	-48.29	25.40	-60.91	-40.00	20.91	216	293	Horizontal
2	2347.0200	51.55	-47.48	27.41	-63.77	-13.00	50.77	186	49	Horizontal
3	3129.3600	51.19	-46.61	29.56	-61.12	-13.00	48.12	172	49	Horizontal
4	3911.7000	48.90	-46.23	30.59	-61.99	-13.00	48.99	193	0	Horizontal
5	4694.0400	47.56	-45.80	32.00	-61.50	-13.00	48.50	216	49	Horizontal
6	5476.3800	47.56	-45.10	32.88	-59.92	-13.00	46.92	228	23	Horizontal

**Final Data List**

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1564.6800	53.04	-48.29	25.40	-65.12	-40.00	25.12	163	337	Vertical
2	2347.0200	51.32	-47.48	27.41	-64.00	-13.00	51.00	215	358	Vertical
3	3129.3600	49.50	-46.61	29.56	-62.81	-13.00	49.81	198	4	Vertical
4	3911.7000	48.17	-46.23	30.59	-62.72	-13.00	49.72	175	360	Vertical
5	4694.0400	47.37	-45.80	32.00	-61.69	-13.00	48.69	215	358	Vertical
6	5476.3800	46.53	-45.10	32.88	-60.95	-13.00	47.95	223	347	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) - Preamp (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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## Frequency Stability

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	-1.20	-0.001535	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	0.70	0.000895	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	-3.40	-0.004348	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	-4.00	-0.005115	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	-0.80	-0.001023	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	0.40	0.000512	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-0.50	-0.000639	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	-3.40	-0.004348	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	2.10	0.002685	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	-3.10	-0.003964	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	-8.10	-0.010358	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	-2.60	-0.003325	PASS

|MAX( $\Delta f$ )| = 8.1Hz

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L -  \text{MAX}(\Delta f) $	777.562354	$\geq 777 \text{ MHz}$	PASS
$f_H +  \text{MAX}(\Delta f) $	786.456982	$\leq 787 \text{ MHz}$	

---End of Attachment---



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