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Appendix B.7

LTE Band 14



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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
Band14	5MHz	QPSK	23305	1RB#0	22.92	25.22	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	22.88	25.18	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	22.92	25.22	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	22.09	24.39	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	22.9	25.2	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	22.96	25.26	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	22.91	25.21	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	22.08	24.38	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	22.96	25.26	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	22.92	25.22	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	22.86	25.16	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	22.03	24.33	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	22.23	24.53	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	22.25	24.55	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	22.21	24.51	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	21.08	23.38	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	22.1	24.4	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	22.23	24.53	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	22.2	24.5	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	21.07	23.37	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	22.26	24.56	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	22.18	24.48	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	22.2	24.5	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	21	23.3	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	22.92	25.22	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#24	23.02	25.32	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	22.89	25.19	34.77	PASS
Band14	10MHz	QPSK	23330	50RB#0	22.05	24.35	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	22.24	24.54	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	22.24	24.54	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	22.14	24.44	34.77	PASS



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Band14	10MHz	16QAM	23330	50RB#0	21.08	23.38	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
Band14	10MHz	QPSK	23330	50RB#0	5.40	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	6.14	13	PASS



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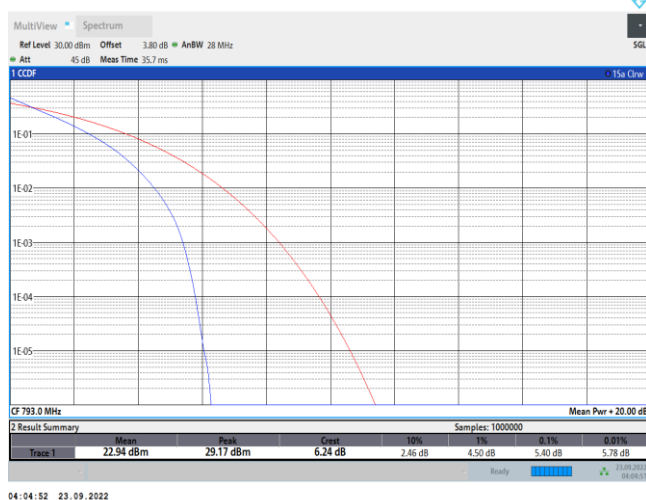
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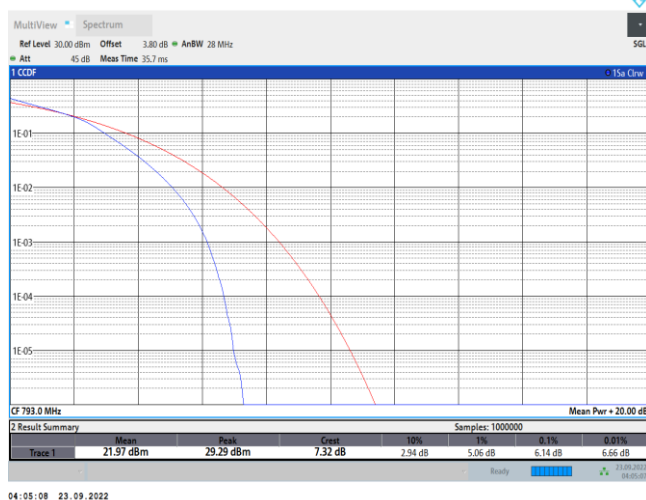
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Test Graphs

Band14-10MHz-QPSK-23330-50RB#0



Band14-10MHz-16QAM-23330-50RB#0



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band14	10MHz	QPSK	23330	50RB#0	PASS	PASS
Band14	10MHz	16QAM	23330	50RB#0	PASS	PASS



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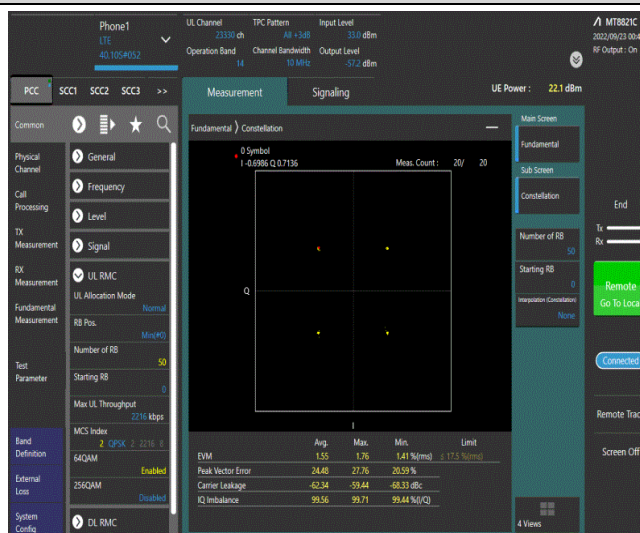
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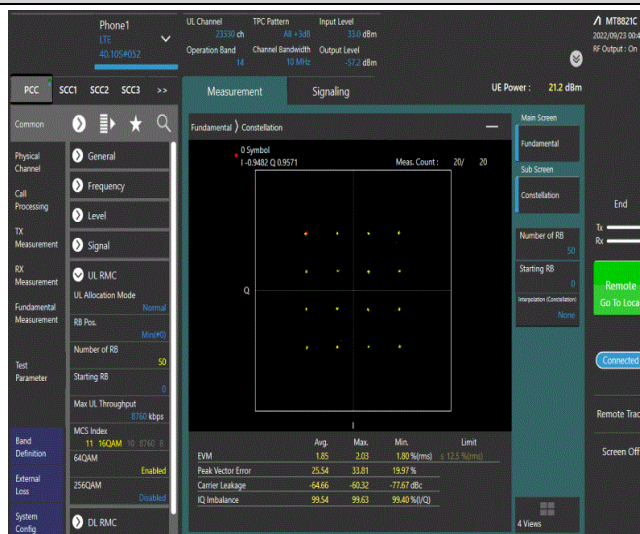
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Test Graphs

Band14-10MHz-QPSK-23330-50RB#0



Band14-10MHz-16QAM-23330-50RB#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
Band14	5MHz	QPSK	23305	25RB#0	4.468	4.90	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.473	4.88	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.476	4.91	PASS
Band14	5MHz	16QAM	23305	25RB#0	4.469	4.90	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.474	4.90	PASS
Band14	5MHz	16QAM	23355	25RB#0	4.472	4.90	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.947	9.70	PASS
Band14	10MHz	16QAM	23330	50RB#0	8.927	9.70	PASS



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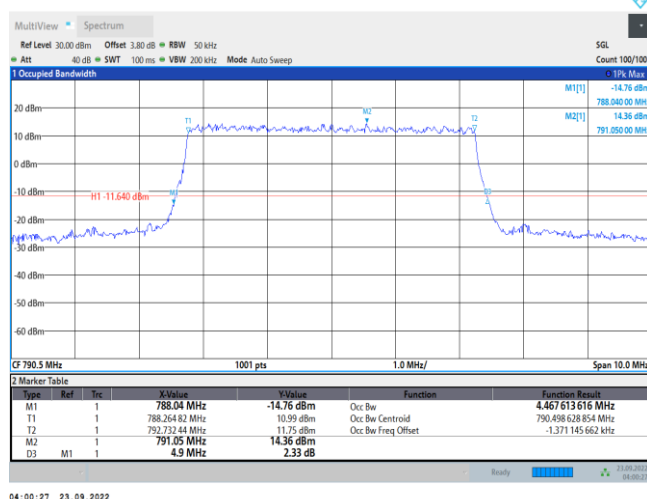
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Test Graphs

Band14-5MHz-QPSK-23305-25RB#0



Band14-5MHz-QPSK-23330-25RB#0



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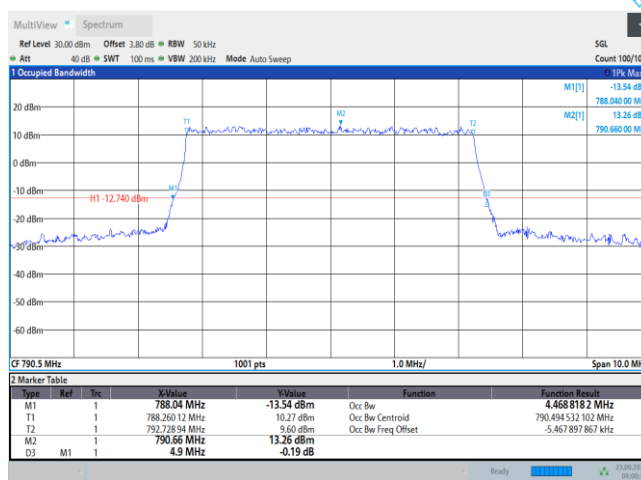
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Band14-5MHz-16QAM-23305-25RB#0



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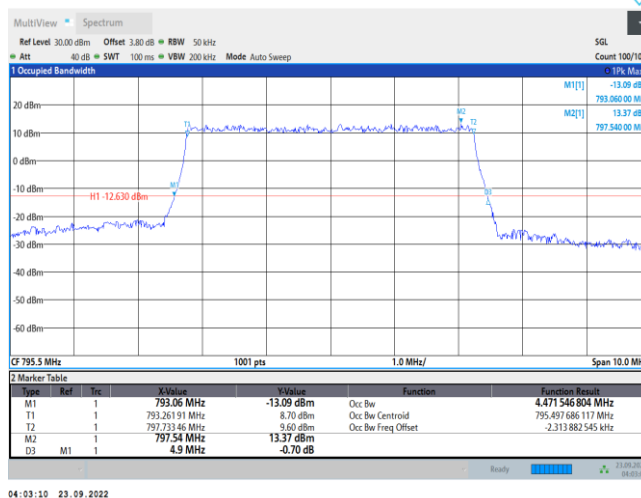
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Band14-5MHz-16QAM-23355-25RB#0



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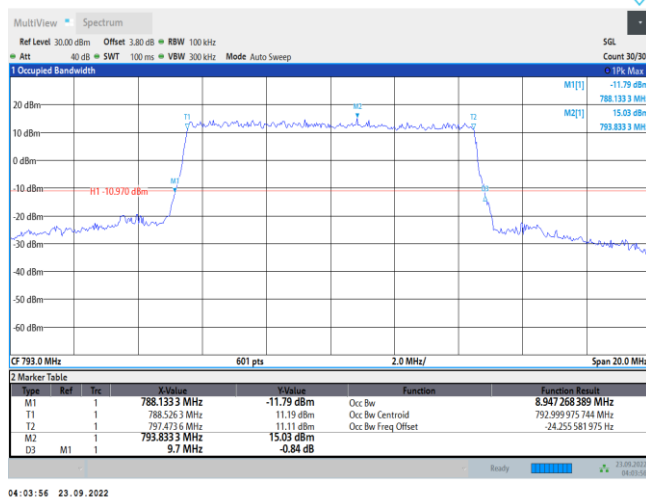
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Band14-10MHz-QPSK-23330-50RB#0



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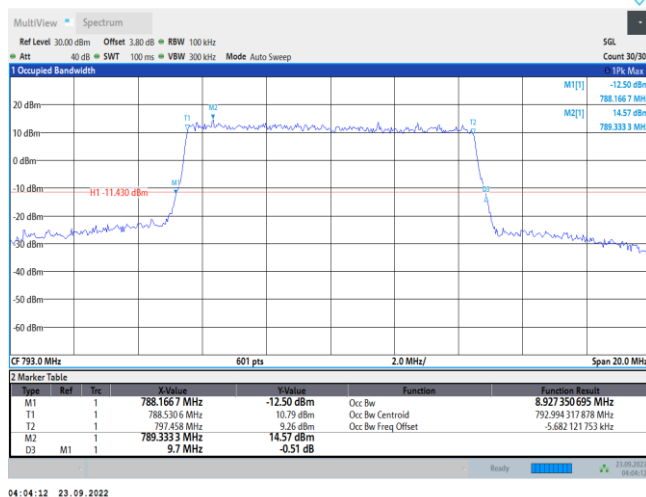
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Band14-10MHz-16QAM-23330-50RB#0



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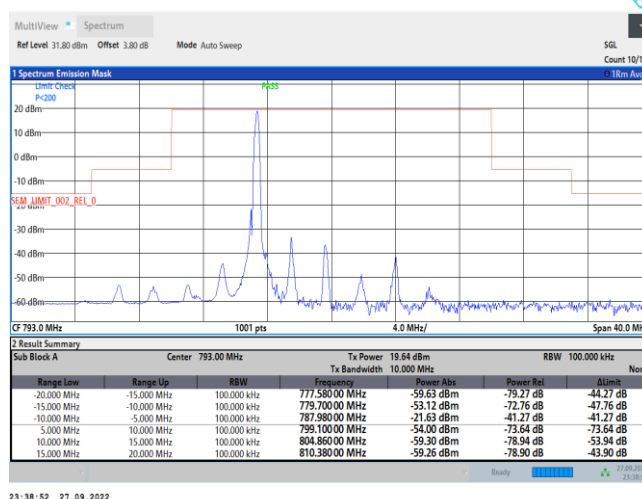
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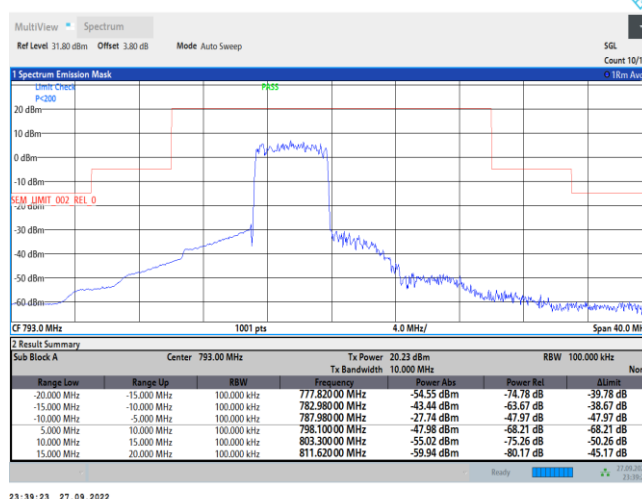
Emission Mask

Test Graphs

Band14-5MHz-QPSK-23305-1RB#0



Band14-5MHz-QPSK-23305-25RB#0



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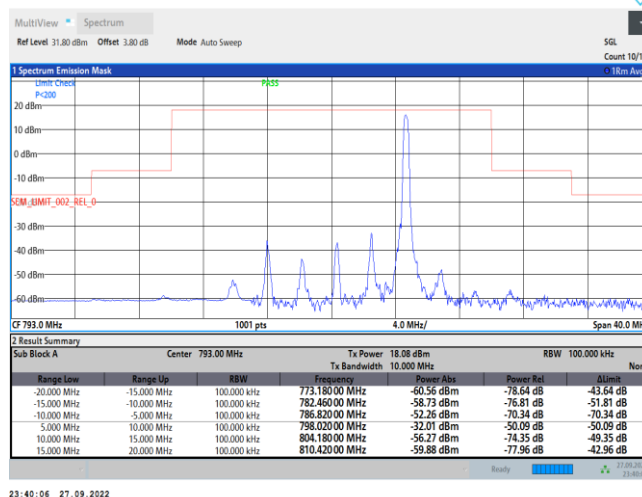
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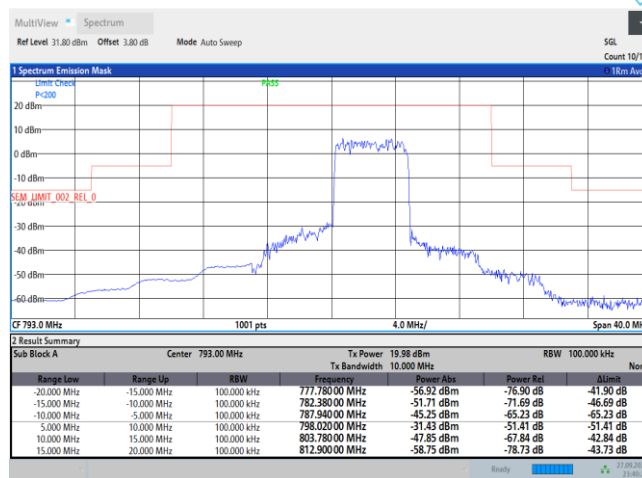
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Band14-5MHz-QPSK-23355-1RB#24



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Band14-5MHz-QPSK-23355-25RB#0



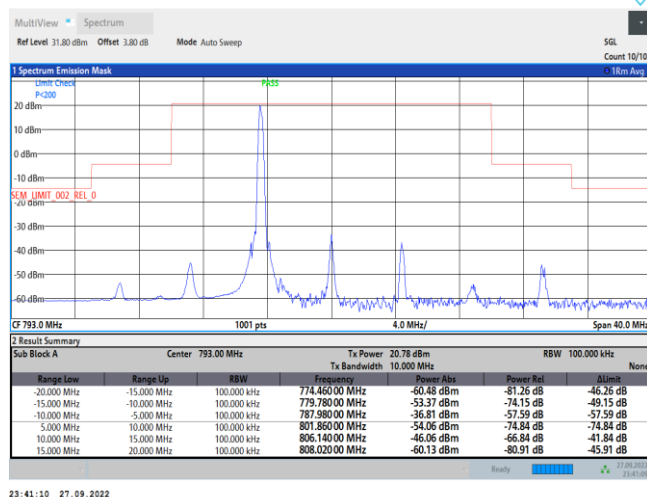
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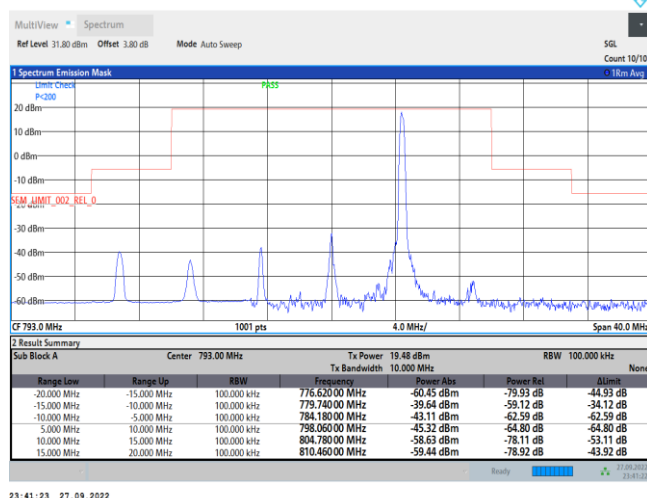
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Band14-10MHz-QPSK-23330-1RB#0



Band14-10MHz-QPSK-23330-1RB#49

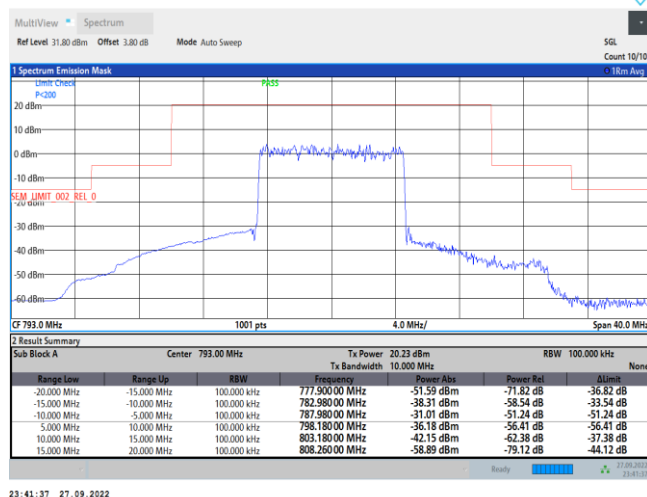


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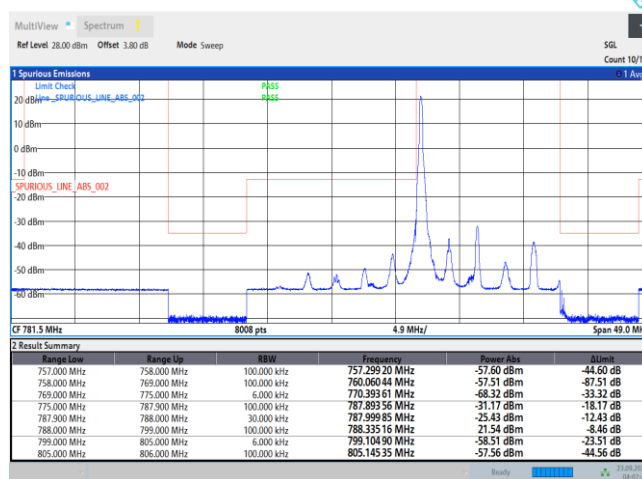
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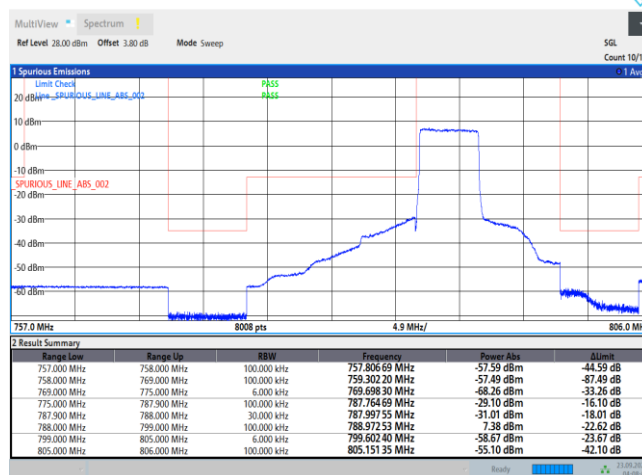
Band Edge

Test Graphs

Band14-5MHz-QPSK-23305-1RB#0



Band14-5MHz-QPSK-23305-25RB#0



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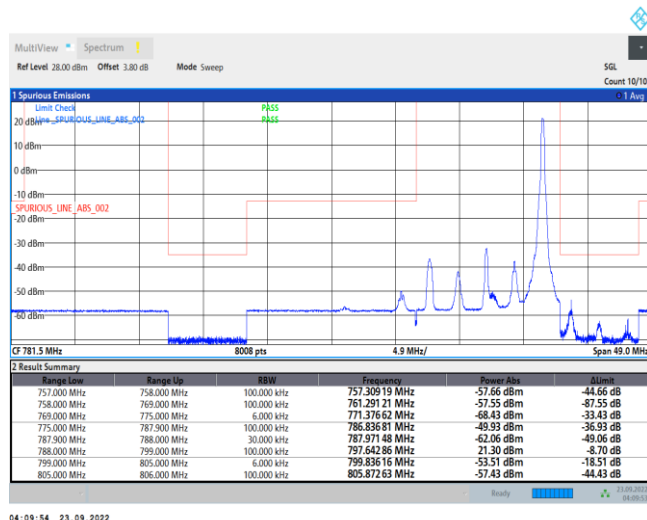
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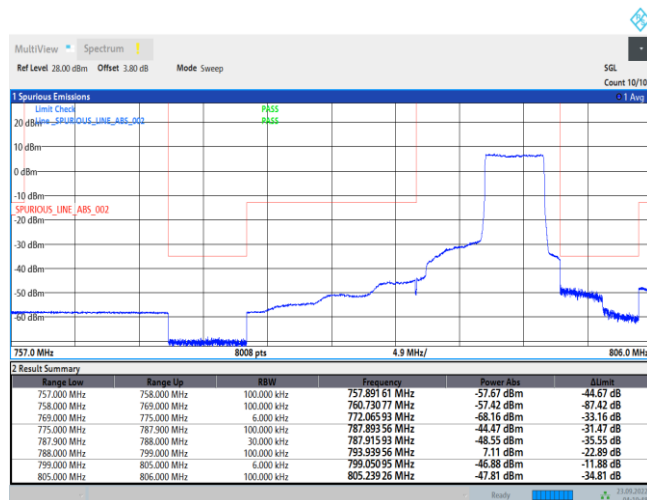
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Band14-5MHz-QPSK-23355-1RB#24



04:09:54 23.09.2022

Band14-5MHz-QPSK-23355-25RB#0



04:10:48 23.09.2022



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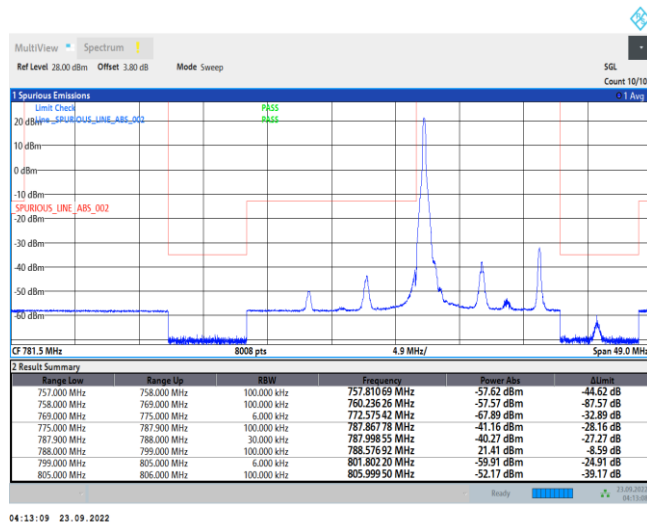
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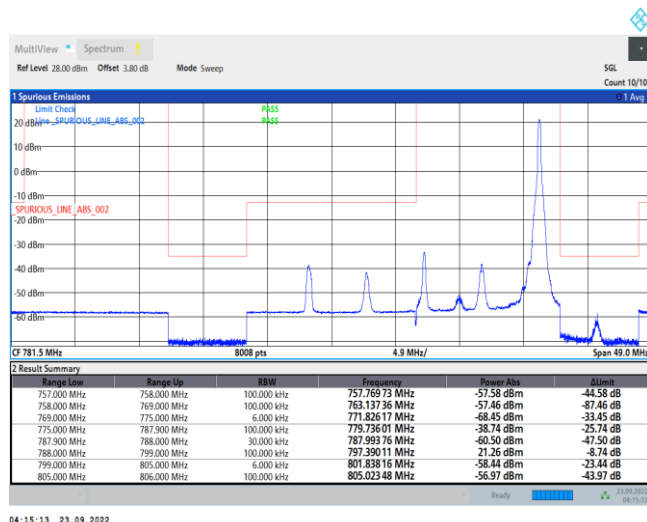
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Band14-10MHz-QPSK-23330-1RB#0



Band14-10MHz-QPSK-23330-1RB#49



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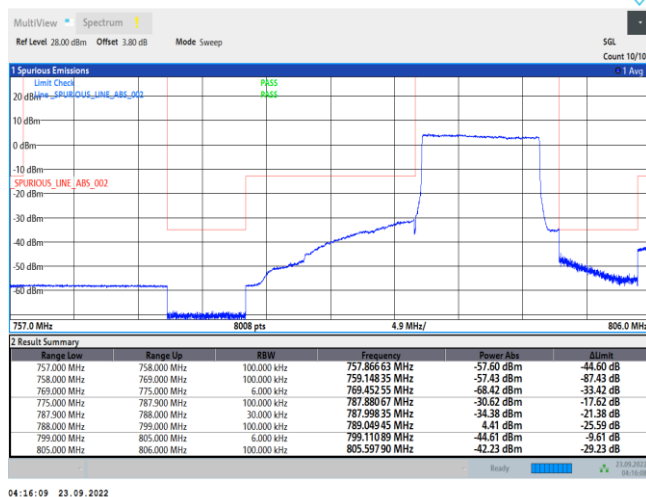
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Band14-10MHz-QPSK-23330-50RB#0



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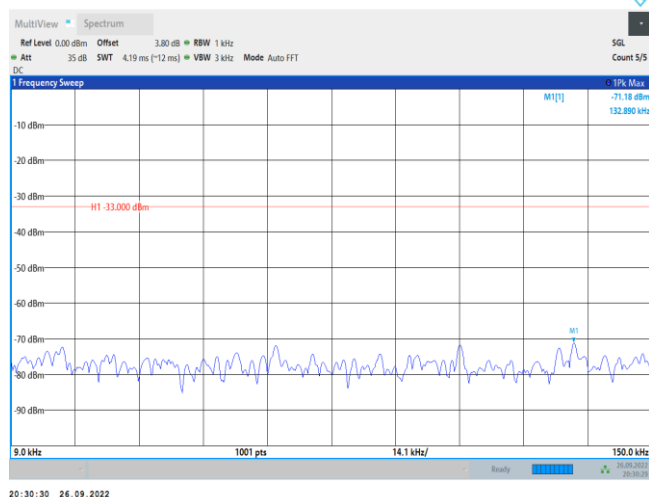
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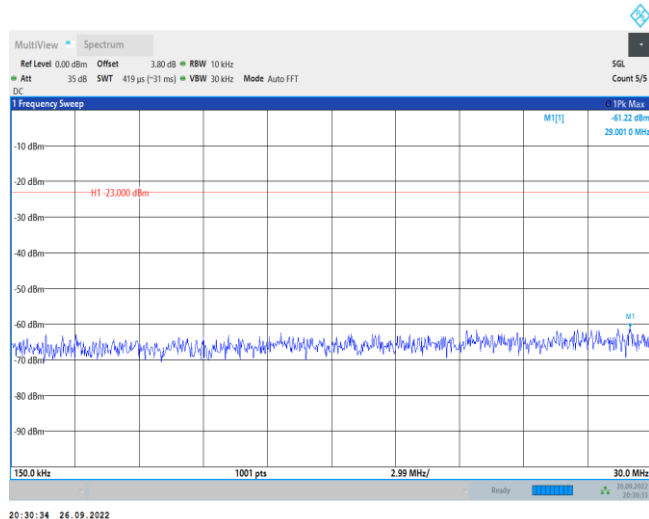
Conducted Spurious Emission

Test Graphs

Band14-10MHz-QPSK-23330-1RB#0-Range1:0.009~0.15MHz



Band14-10MHz-QPSK-23330-1RB#0-Range2:0.15~30MHz



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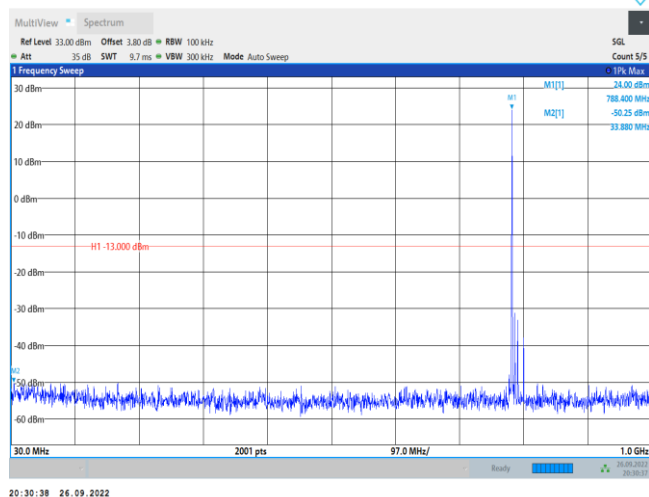
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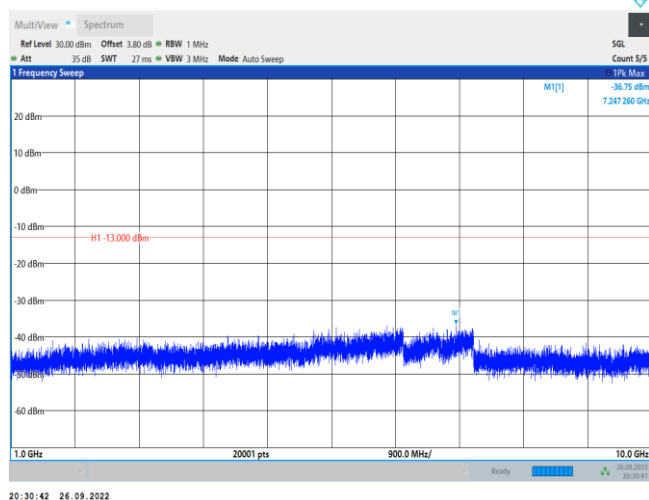
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Band14-10MHz-QPSK-23330-1RB#0-Range3:30~1000MHz



Band14-10MHz-QPSK-23330-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band14_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	1577.1429	61.76	-48.29	25.38	-56.41	-40.00	16.41	211	201	Horizontal
2	2365.7700	50.77	-47.47	27.42	-64.53	-13.00	51.53	154	296	Horizontal
3	3154.3600	50.51	-46.50	29.61	-61.64	-13.00	48.64	126	348	Horizontal
4	3942.9500	48.59	-46.22	30.67	-62.22	-13.00	49.22	255	122	Horizontal
5	4731.5400	48.17	-45.75	32.11	-60.73	-13.00	47.73	236	1	Horizontal
6	5520.1300	46.38	-45.17	32.93	-61.11	-13.00	48.11	261	296	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	1577.1429	58.85	-48.29	25.38	-59.32	-40.00	19.32	289	49	Vertical
2	2365.7700	50.27	-47.47	27.42	-65.03	-13.00	52.03	145	314	Vertical
3	3154.3600	49.73	-46.50	29.61	-62.42	-13.00	49.42	165	3	Vertical
4	3942.9500	48.30	-46.22	30.67	-62.51	-13.00	49.51	128	141	Vertical
5	4731.5400	47.35	-45.75	32.11	-61.55	-13.00	48.55	144	360	Vertical
6	5520.1300	46.97	-45.17	32.93	-60.52	-13.00	47.52	179	246	Vertical



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Test Band = LTE Band14_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	1576.6800	62.61	-48.29	25.38	-55.56	-40.00	15.56	248	188	Horizontal
2	2365.0200	52.19	-47.47	27.42	-63.11	-13.00	50.11	175	108	Horizontal
3	3153.3600	49.91	-46.50	29.60	-62.25	-13.00	49.25	168	160	Horizontal
4	3941.7000	50.29	-46.22	30.66	-60.52	-13.00	47.52	135	81	Horizontal
5	4730.0400	48.17	-45.75	32.11	-60.73	-13.00	47.73	192	134	Horizontal
6	5518.3800	46.91	-45.16	32.93	-60.58	-13.00	47.58	146	356	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	1576.6800	60.91	-48.29	25.38	-57.26	-40.00	17.26	235	67	Vertical
2	2365.0200	50.96	-47.47	27.42	-64.34	-13.00	51.34	145	4	Vertical
3	3153.3600	49.45	-46.50	29.60	-62.71	-13.00	49.71	162	93	Vertical
4	3941.7000	49.24	-46.22	30.66	-61.57	-13.00	48.57	154	360	Vertical
5	4730.0400	48.22	-45.75	32.11	-60.68	-13.00	47.68	129	238	Vertical
6	5518.3800	47.87	-45.16	32.93	-59.62	-13.00	46.62	155	238	Vertical



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Test Band = LTE Band14_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	1581.6800	62.98	-48.29	25.37	-55.19	-40.00	15.19	284	267	Horizontal
2	2372.5200	52.13	-47.46	27.43	-63.17	-13.00	50.17	195	0	Horizontal
3	3163.3600	49.22	-46.46	29.62	-62.88	-13.00	49.88	162	83	Horizontal
4	3954.2000	49.09	-46.21	30.69	-61.69	-13.00	48.69	147	1	Horizontal
5	4745.0400	48.49	-45.73	32.15	-60.35	-13.00	47.35	152	227	Horizontal
6	5535.8800	47.00	-45.19	32.95	-60.50	-13.00	47.50	133	17	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	1581.6800	61.17	-48.29	25.37	-57.00	-40.00	17.00	248	12	Vertical
2	2372.5200	52.17	-47.46	27.43	-63.13	-13.00	50.13	199	51	Vertical
3	3163.3600	50.01	-46.46	29.62	-62.09	-13.00	49.09	153	184	Vertical
4	3954.2000	49.46	-46.21	30.69	-61.32	-13.00	48.32	126	359	Vertical
5	4745.0400	48.56	-45.73	32.15	-60.28	-13.00	47.28	174	359	Vertical
6	5535.8800	48.23	-45.19	32.95	-59.27	-13.00	46.27	159	3	Vertical



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Test Band = LTE Band14_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	1586.6800	63.02	-48.29	25.37	-55.16	-40.00	15.16	211	150	Horizontal
2	2380.0200	50.52	-47.46	27.43	-64.77	-13.00	51.77	147	268	Horizontal
3	3173.3600	50.38	-46.41	29.64	-61.65	-13.00	48.65	158	176	Horizontal
4	3966.7000	48.28	-46.21	30.72	-62.47	-13.00	49.47	169	0	Horizontal
5	4760.0400	47.12	-45.70	32.20	-61.64	-13.00	48.64	192	0	Horizontal
6	5553.3800	47.93	-45.21	32.97	-59.57	-13.00	46.57	143	44	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	1586.6800	63.40	-48.29	25.37	-54.78	-40.00	14.78	235	118	Vertical
2	2380.0200	50.75	-47.46	27.43	-64.54	-13.00	51.54	162	360	Vertical
3	3173.3600	49.40	-46.41	29.64	-62.63	-13.00	49.63	142	171	Vertical
4	3966.7000	48.22	-46.21	30.72	-62.53	-13.00	49.53	152	158	Vertical
5	4760.0400	47.32	-45.70	32.20	-61.44	-13.00	48.44	188	277	Vertical
6	5553.3800	47.09	-45.21	32.97	-60.41	-13.00	47.41	193	360	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:

$$AF = \text{Antenna Factor(dB/m)}$$

$$\text{Factor} = \text{Cable Factor(dB)} - \text{Preamplifier (dB)}$$

$$\text{Level} = \text{Reading Level} + AF + \text{Factor} - 95.26$$

$$\text{Margin} = \text{Limit} - \text{Level}$$


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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	VL	NT	1.30	0.001639	PASS
Band14	10MHz	QPSK	23330	50RB#0	VN	NT	1.30	0.001639	PASS
Band14	10MHz	QPSK	23330	50RB#0	VH	NT	-3.70	-0.004666	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	NV	-30	-4.10	-0.005170	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-20	-0.70	-0.000883	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-10	-3.10	-0.003909	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	0	0.10	0.000126	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	10	-2.60	-0.003279	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	20	-2.40	-0.003026	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	30	-2.50	-0.003153	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	40	-1.30	-0.001639	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	50	-0.30	-0.000378	PASS

 $|\text{MAX}(\Delta f)| = 4.1\text{Hz}$

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	788.562354	$\geq 788\text{ MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	797.456982	$\leq 798\text{MHz}$	

---End of Attachment---



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