

Appendix B.6

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	23.18	23.23	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	23.22	23.27	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	23.1	23.15	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	22.41	22.46	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	23.39	23.44	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	23.12	23.17	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	22.98	23.03	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	22.25	22.3	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	23.2	23.25	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	22.99	23.04	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	23.11	23.16	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	22.05	22.1	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	22.58	22.63	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	22.66	22.71	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	22.56	22.61	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	21.51	21.56	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	22.72	22.77	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	22.49	22.54	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	22.28	22.33	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	21.37	21.42	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	22.49	22.54	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	22.27	22.32	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	22.39	22.44	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	21.24	21.29	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	23.35	23.4	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#24	23.19	23.24	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	23.02	23.07	34.77	PASS



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Rev.: 01

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Band14	10MHz	QPSK	23330	50RB#0	22.29	22.34	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	22.65	22.7	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	22.53	22.58	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	22.44	22.49	34.77	PASS
Band14	10MHz	16QAM	23330	27RB#0	22.82	22.87	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	5.54	13	PASS

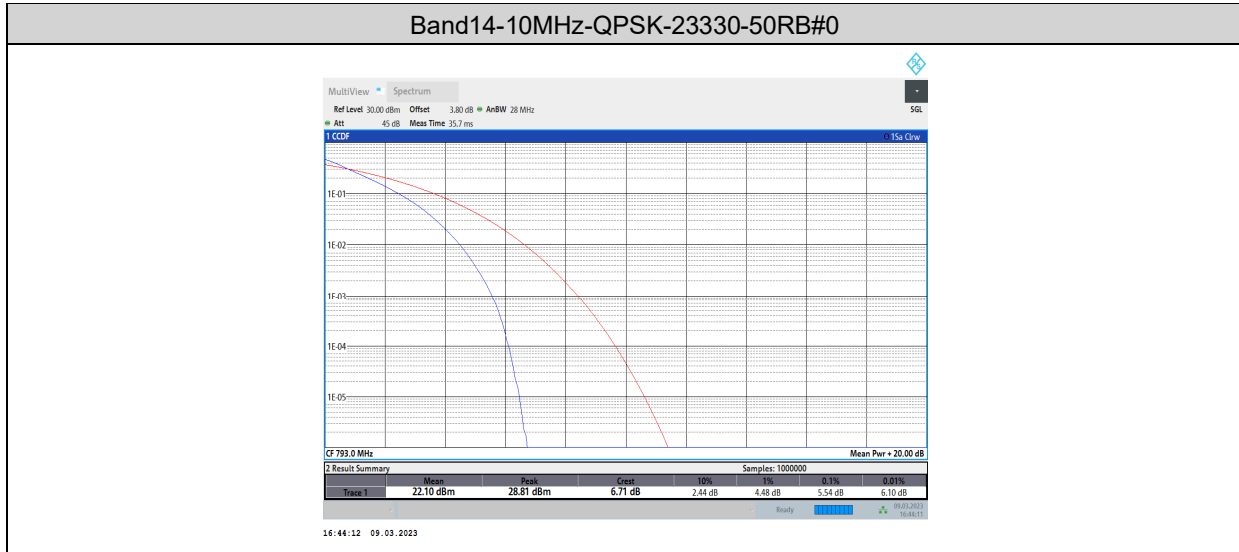


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Test Graphs



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Modulation Characteristics

Test Result

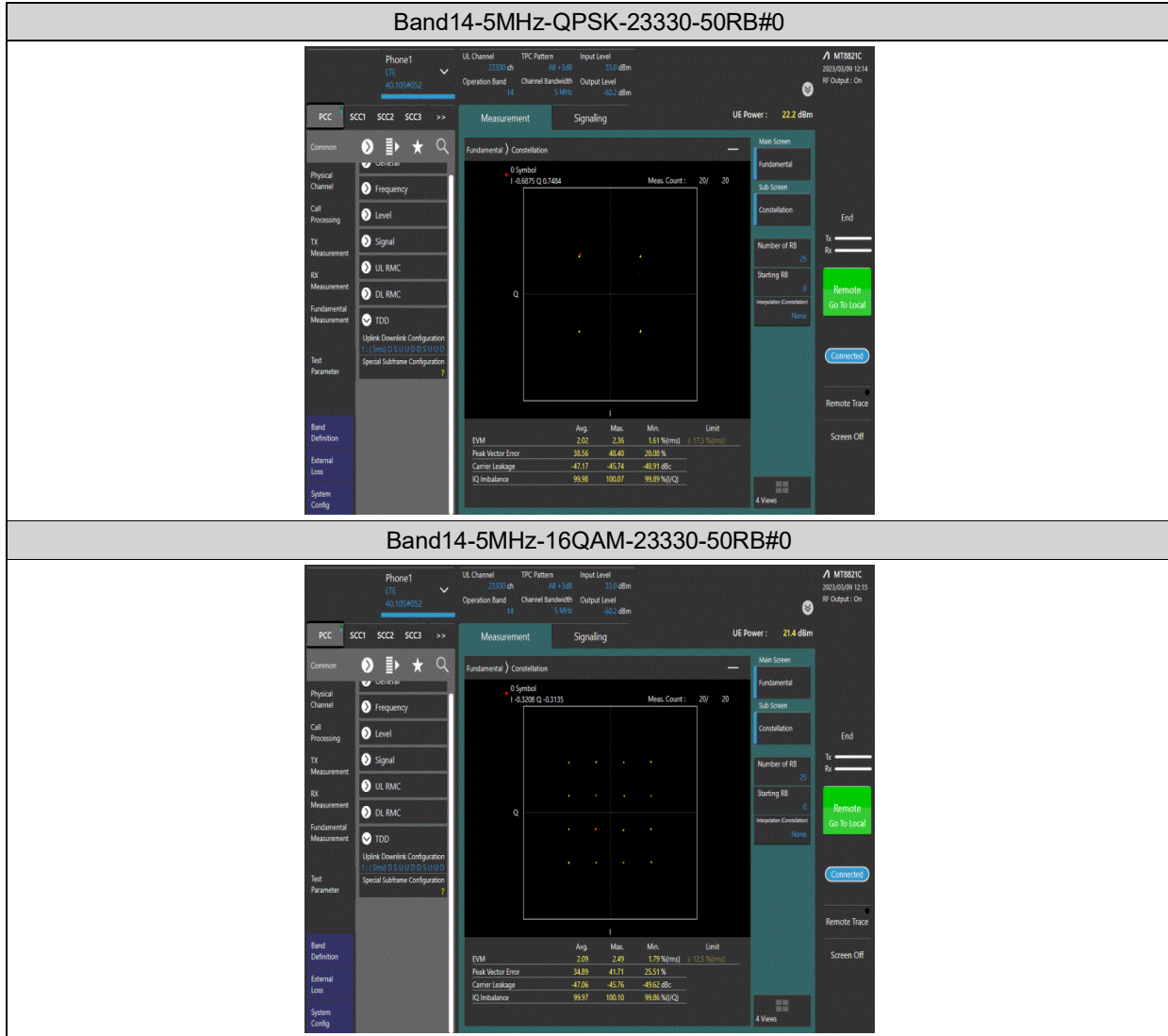
Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band14	5MHz	QPSK	23330	25RB#0	PASS	PASS
Band14	5MHz	16QAM	23330	25RB#0	PASS	PASS



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Test Graphs



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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	4.466	4.94	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.464	4.88	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.474	4.97	PASS
Band14	5MHz	16QAM	23305	25RB#0	4.467	4.99	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.463	4.94	PASS
Band14	5MHz	16QAM	23355	25RB#0	4.472	5.03	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.932	9.97	PASS
Band14	10MHz	16QAM	23330	27RB#0	4.887	5.80	PASS

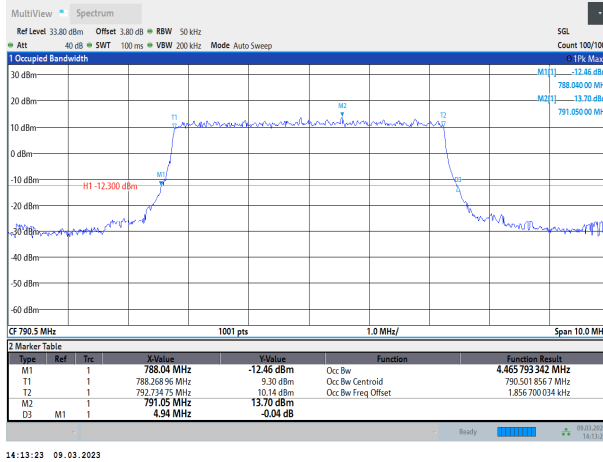


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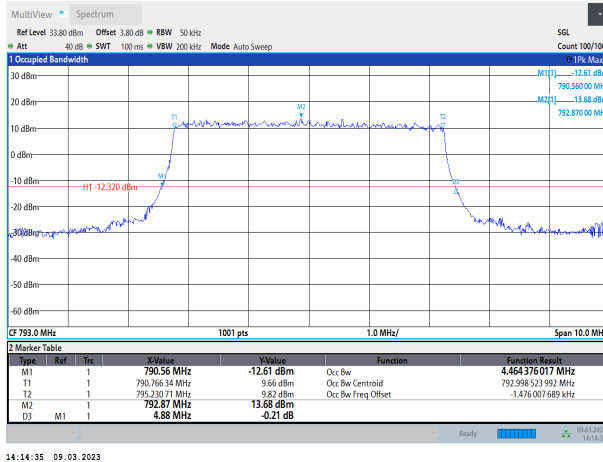
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Test Graphs

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



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

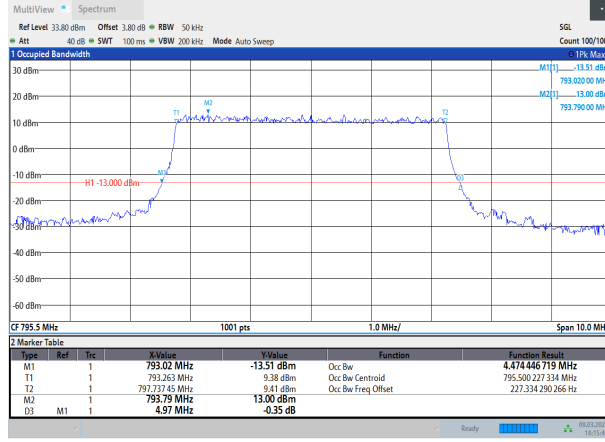


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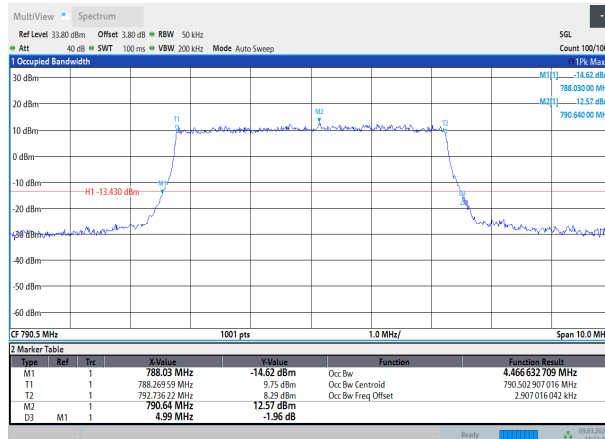
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Band14-5MHz-QPSK-23355-25RB#0



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



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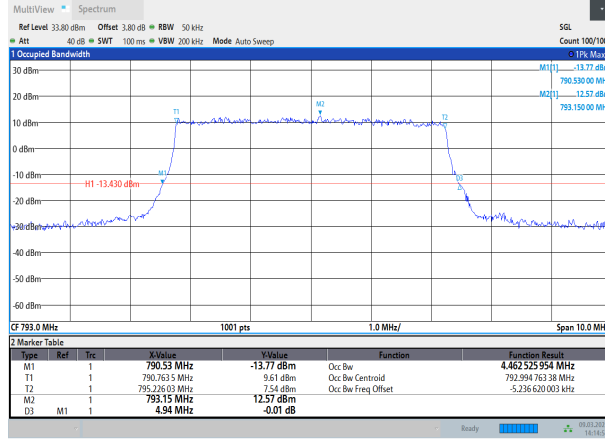


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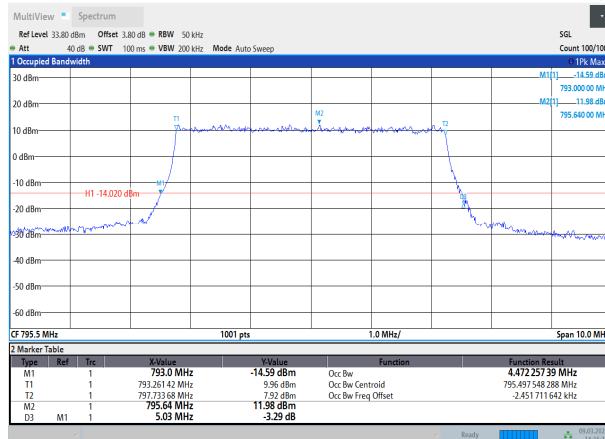
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Band14-5MHz-16QAM-23330-25RB#0



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



14:16:11 09.03.2023

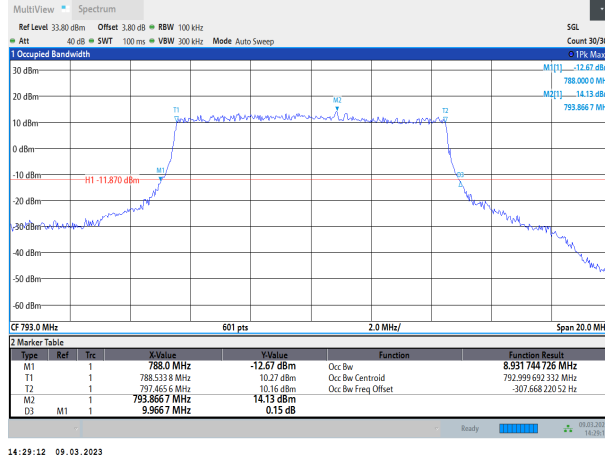


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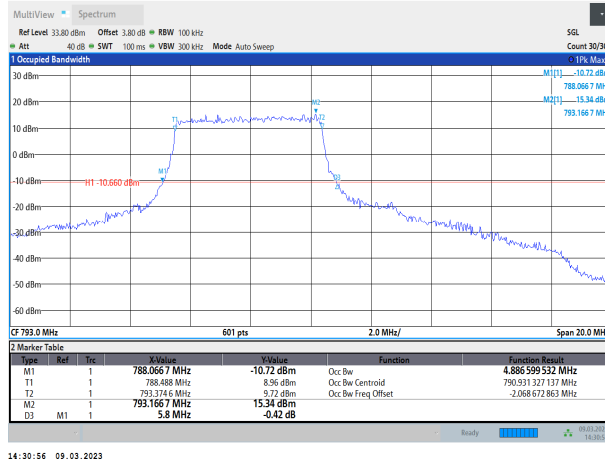
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Band14-10MHz-QPSK-23330-50RB#0



Band14-10MHz-16QAM-23330-27RB#0



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Emission mask

Test Graphs

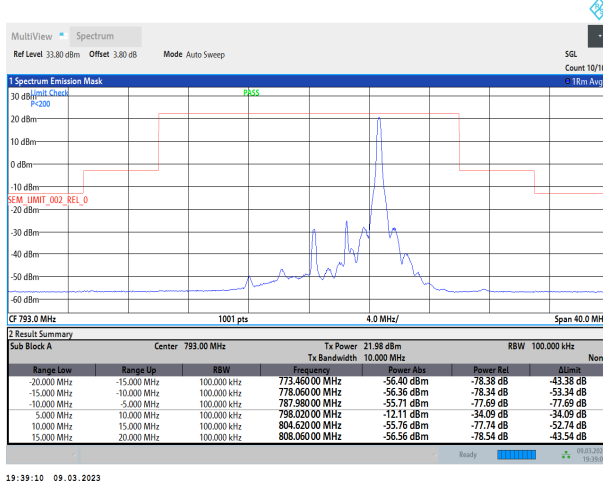


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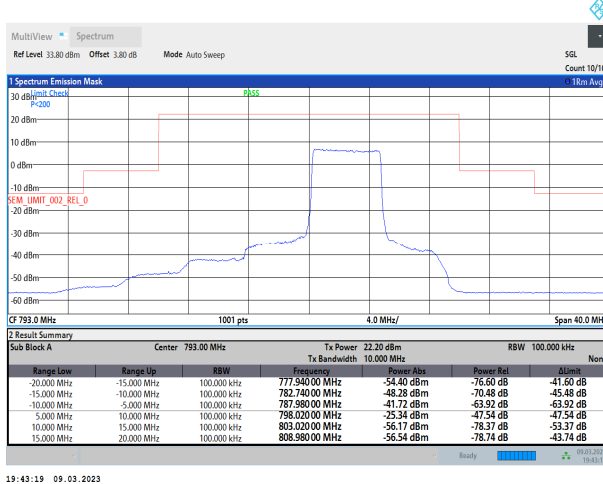
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Band14-5MHz-QPSK-23355-1RB#24



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

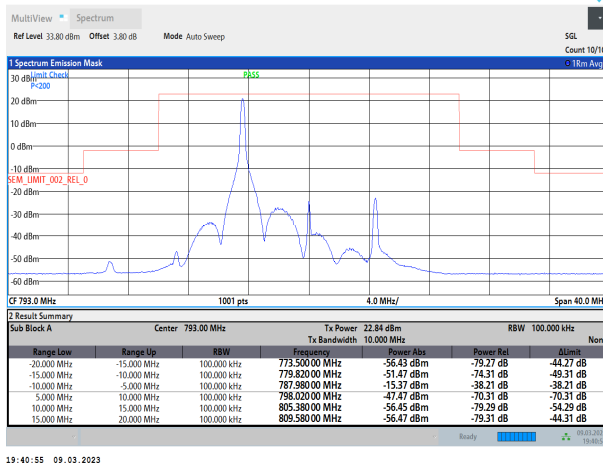


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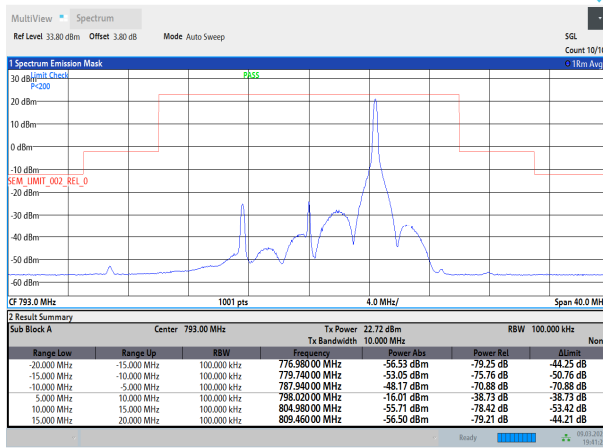
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Band14-10MHz-QPSK-23330-1RB#0



19:40:55 09.03.2023

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



19:41:28 09.03.2023

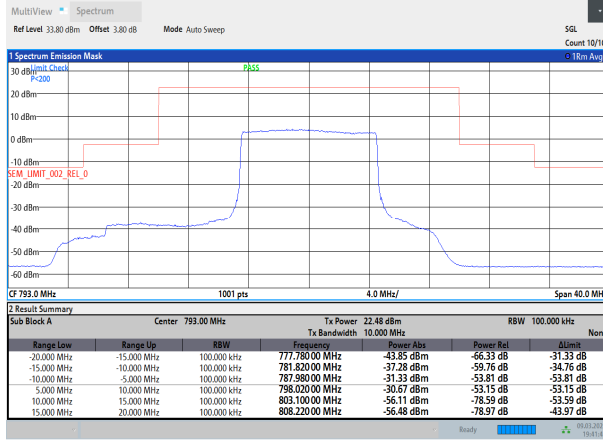


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Band14-10MHz-QPSK-23330-50RB#0



19:41:46 09.03.2023



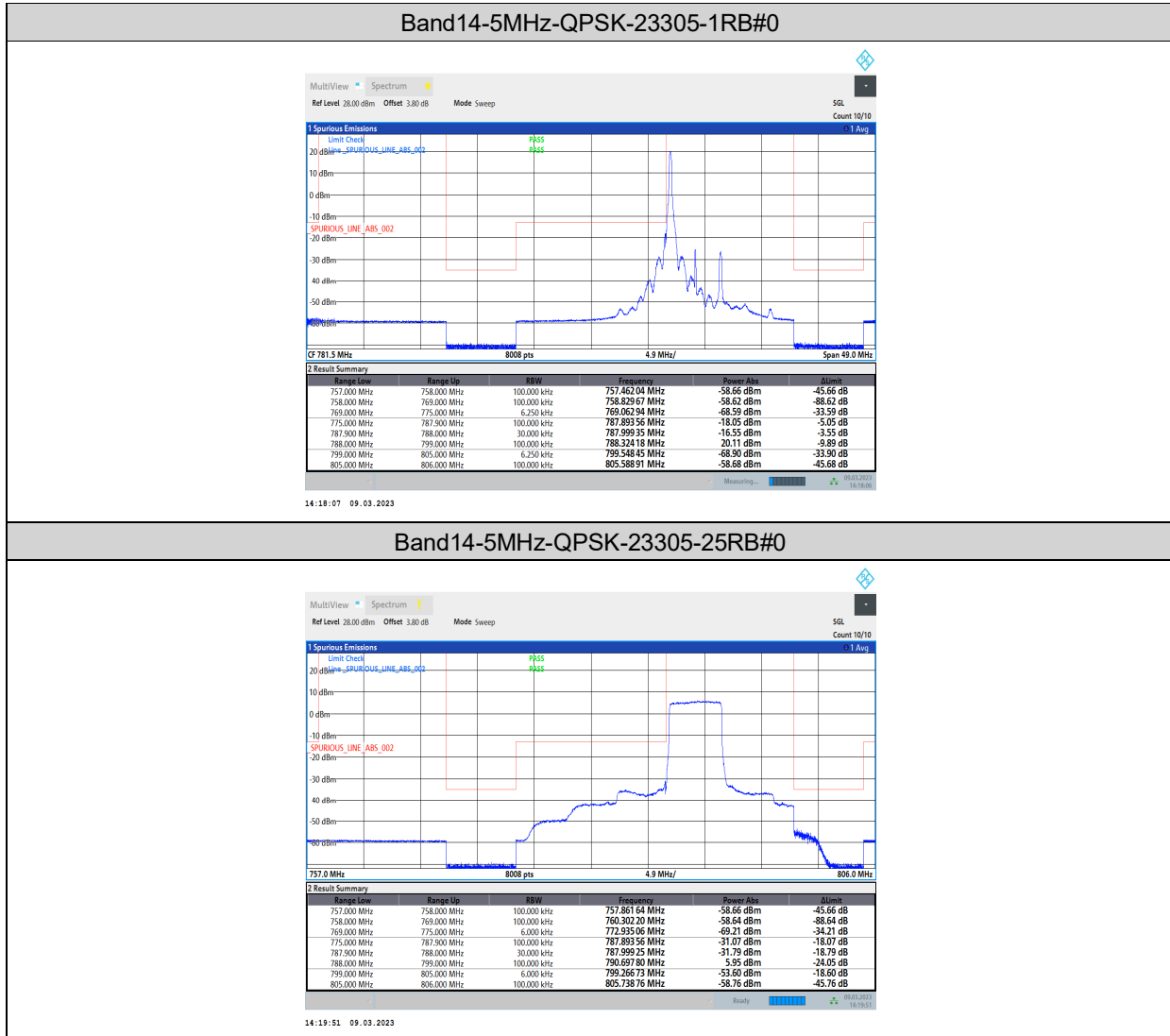
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Band Edge

Test Graphs

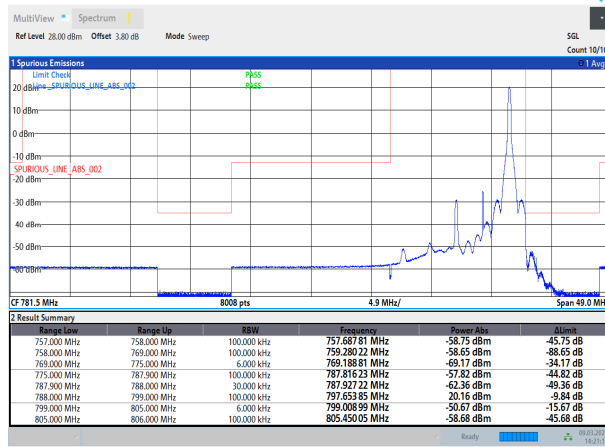


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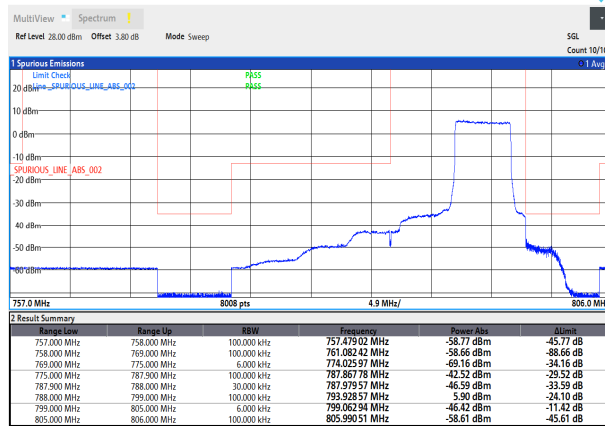
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Band14-5MHz-QPSK-23355-1RB#24



14:21:15 09.03.2023

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



14:22:10 09.03.2023

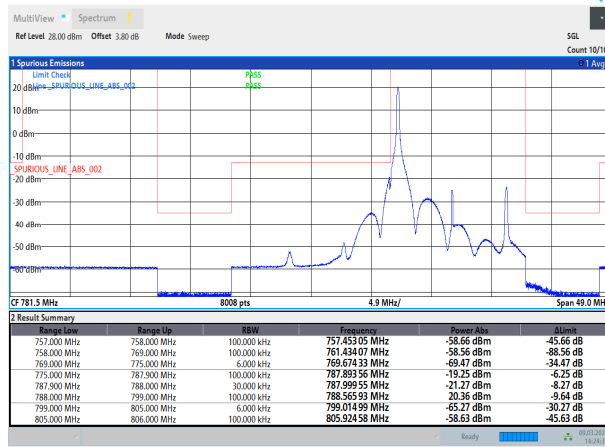


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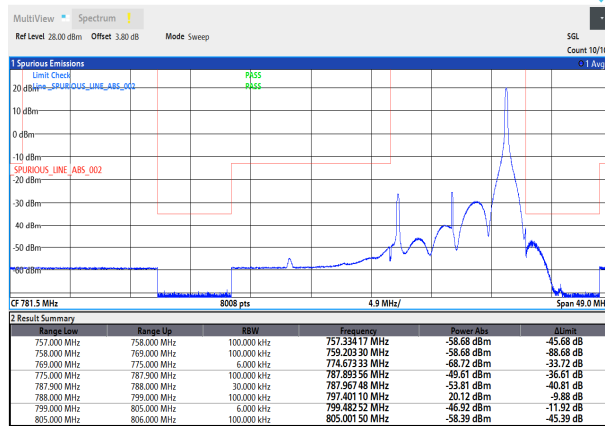
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Band14-10MHz-QPSK-23330-1RB#0



14:24:32 09.03.2023

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



14:26:36 09.03.2023

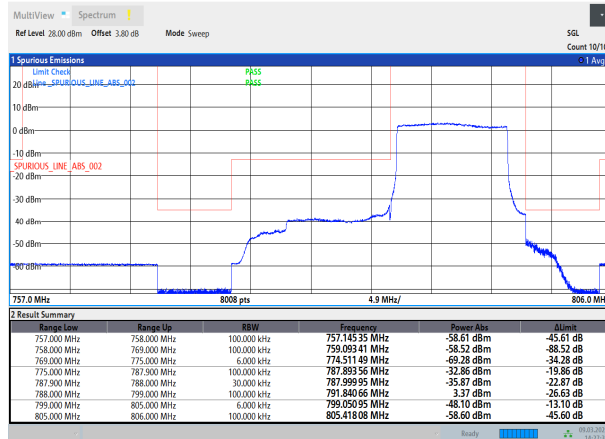


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Band14-10MHz-QPSK-23330-50RB#0



14:27:31 09.03.2023



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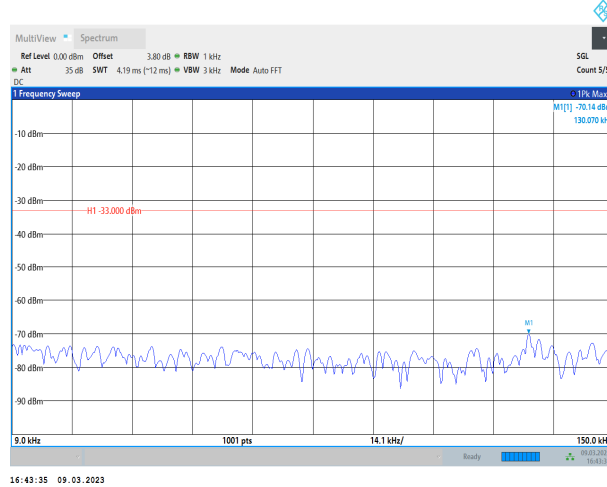
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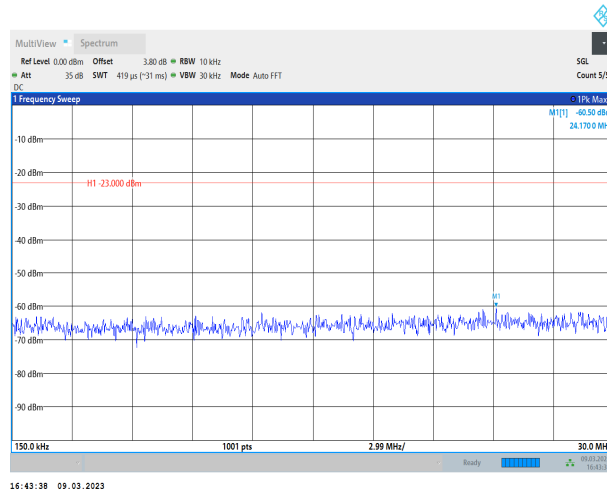
Conducted Spurious Emission

Test Graphs

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



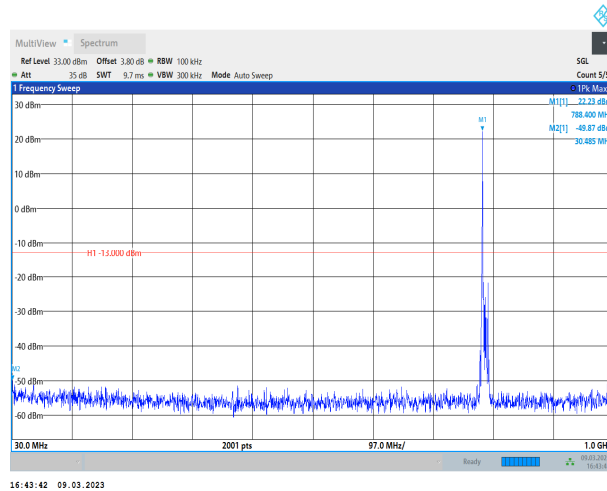
Band14-10MHz-QPSK-23330-1RB#0-Range2:0.15~30MHz



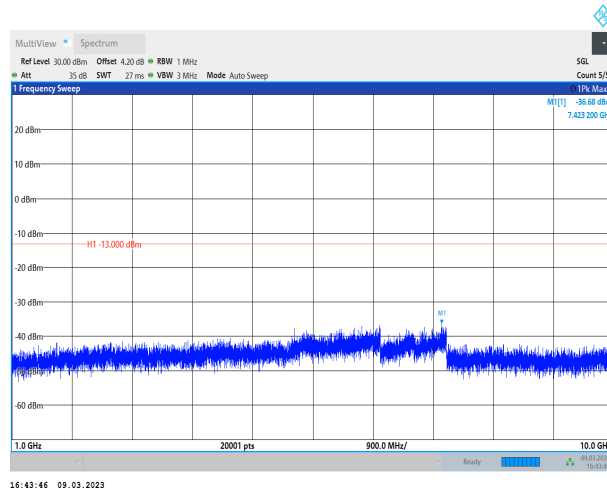
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Band14-10MHz-QPSK-23330-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE Band 14_QPSK_10MHz_TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1577.18	52.69	-48.51	25.58	-65.51	-40.00	25.51	296	7	Horizontal
2	2365.77	50.40	-47.60	27.63	-64.83	-13.00	51.83	285	68	Horizontal
3	3154.36	45.00	-46.39	29.54	-67.11	-13.00	54.11	274	266	Horizontal
4	3942.95	43.38	-45.52	30.46	-66.93	-13.00	53.93	145	62	Horizontal
5	4731.54	41.58	-44.57	31.96	-66.29	-13.00	53.29	263	156	Horizontal
6	5520.13	40.94	-43.76	32.67	-65.41	-13.00	52.41	288	111	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	1577.18	46.50	-48.51	25.58	-71.70	-40.00	31.70	362	206	Vertical
2	2365.77	66.43	-47.60	27.63	-48.80	-13.00	35.80	285	184	Vertical
3	3154.36	48.38	-46.39	29.54	-63.73	-13.00	50.73	241	252	Vertical
4	3942.95	44.16	-45.52	30.46	-66.15	-13.00	53.15	142	157	Vertical
5	4731.54	41.81	-44.57	31.96	-66.06	-13.00	53.06	255	14	Vertical
6	5520.13	40.79	-43.76	32.67	-65.56	-13.00	52.56	286	3	Vertical



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Test Band = LTE Band 14_QPSK_5MHz_TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1576.68	52.46	-48.51	25.58	-65.74	-40.00	25.74	145	3	Horizontal
2	2365.02	48.15	-47.60	27.63	-67.08	-13.00	54.08	216	266	Horizontal
3	3153.36	46.03	-46.39	29.54	-66.09	-13.00	53.09	233	111	Horizontal
4	3941.7	42.92	-45.52	30.46	-67.40	-13.00	54.40	165	0	Horizontal
5	4730.04	41.31	-44.57	31.95	-66.57	-13.00	53.57	244	346	Horizontal
6	5518.38	40.74	-43.76	32.66	-65.62	-13.00	52.62	198	192	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	1576.68	48.84	-48.51	25.58	-69.36	-40.00	29.36	192	330	Vertical
2	2365.02	65.47	-47.60	27.63	-49.76	-13.00	36.76	215	174	Vertical
3	3153.36	47.73	-46.39	29.54	-64.39	-13.00	51.39	263	330	Vertical
4	3941.7	44.16	-45.52	30.46	-66.16	-13.00	53.16	188	3	Vertical
5	4730.04	41.56	-44.57	31.95	-66.32	-13.00	53.32	241	34	Vertical
6	5518.38	40.70	-43.76	32.66	-65.66	-13.00	52.66	165	298	Vertical



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Test Band = LTE Band 14_QPSK_5MHz_TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2372.4444	48.62	-47.60	27.64	-66.60	-13.00	53.60	179	279	Horizontal
2	1581.68	49.19	-48.51	25.58	-69.00	-40.00	29.00	236	4	Horizontal
3	3163.36	44.53	-46.37	29.53	-67.56	-13.00	54.56	162	156	Horizontal
4	3954.2	42.63	-45.51	30.49	-67.65	-13.00	54.65	214	266	Horizontal
5	4745.04	41.53	-44.58	31.99	-66.32	-13.00	53.32	203	31	Horizontal
6	5535.88	40.64	-43.74	32.72	-65.65	-13.00	52.65	198	203	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	1581.68	45.43	-48.51	25.58	-72.76	-40.00	32.76	213	9	Vertical
2	2372.52	60.46	-47.60	27.65	-54.76	-13.00	41.76	233	65	Vertical
3	3163.36	47.01	-46.37	29.53	-65.08	-13.00	52.08	146	174	Vertical
4	3954.2	44.13	-45.51	30.49	-66.15	-13.00	53.15	219	0	Vertical
5	4745.04	41.21	-44.58	31.99	-66.64	-13.00	53.64	158	345	Vertical
6	5535.88	40.73	-43.74	32.72	-65.56	-13.00	52.56	207	359	Vertical



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Test Band = LTE Band 14_QPSK_5MHz_TM1

Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1586.68	44.54	-48.52	25.59	-73.65	-40.00	33.65	149	4	Horizontal
2	2380.02	44.50	-47.60	27.66	-70.70	-13.00	57.70	256	253	Horizontal
3	3173.36	43.14	-46.34	29.53	-68.93	-13.00	55.93	233	99	Horizontal
4	3966.7	42.87	-45.51	30.52	-67.38	-13.00	54.38	147	51	Horizontal
5	4760.04	41.20	-44.59	32.03	-66.62	-13.00	53.62	211	31	Horizontal
6	5553.38	40.68	-43.73	32.77	-65.53	-13.00	52.53	168	0	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	1586.68	44.48	-48.52	25.59	-73.71	-40.00	33.71	156	0	Vertical
2	2380.02	58.03	-47.60	27.66	-57.17	-13.00	44.17	216	174	Vertical
3	3173.36	46.05	-46.34	29.53	-66.02	-13.00	53.02	208	3	Vertical
4	3966.7	42.85	-45.51	30.52	-67.40	-13.00	54.40	149	360	Vertical
5	4760.04	41.37	-44.59	32.03	-66.45	-13.00	53.45	153	219	Vertical
6	5553.38	40.92	-43.73	32.77	-65.29	-13.00	52.29	222	0	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) - Pre-amplifier (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
Band14	10MHz	QPSK	23330	50RB#0	VL	NT	-5.90	-0.007440	PASS
Band14	10MHz	QPSK	23330	50RB#0	VN	NT	-5.40	-0.006810	PASS
Band14	10MHz	QPSK	23330	50RB#0	VH	NT	-5.60	-0.007062	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	NV	-30	-5.40	-0.006810	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-20	-0.10	-0.000126	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-10	-4.20	-0.005296	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	0	-1.40	-0.001765	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	10	-0.40	-0.000504	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	20	-0.50	-0.000631	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	30	-1.50	-0.001892	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	40	-2.10	-0.002648	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	50	0.40	0.000504	PASS

---End of Attachment---



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