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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
Band 14	5MHz	QPSK	23305	1RB#0	23.12	25.42	34.77	PASS
Band 14	5MHz	QPSK	23305	1RB#12	23.10	25.4	34.77	PASS
Band 14	5MHz	QPSK	23305	1RB#24	23.04	25.34	34.77	PASS
Band 14	5MHz	QPSK	23305	25RB#0	22.19	24.49	34.77	PASS
Band 14	5MHz	QPSK	23330	1RB#0	23.11	25.41	34.77	PASS
Band 14	5MHz	QPSK	23330	1RB#12	23.12	25.42	34.77	PASS
Band 14	5MHz	QPSK	23330	1RB#24	23.06	25.36	34.77	PASS
Band 14	5MHz	QPSK	23330	25RB#0	22.20	24.5	34.77	PASS
Band 14	5MHz	QPSK	23355	1RB#0	23.09	25.39	34.77	PASS
Band 14	5MHz	QPSK	23355	1RB#12	23.12	25.42	34.77	PASS
Band 14	5MHz	QPSK	23355	1RB#24	23.01	25.31	34.77	PASS
Band 14	5MHz	QPSK	23355	25RB#0	22.16	24.46	34.77	PASS
Band 14	5MHz	16QAM	23305	1RB#0	22.35	24.65	34.77	PASS
Band 14	5MHz	16QAM	23305	1RB#12	22.33	24.63	34.77	PASS
Band 14	5MHz	16QAM	23305	1RB#24	22.33	24.63	34.77	PASS
Band 14	5MHz	16QAM	23305	25RB#0	21.24	23.54	34.77	PASS
Band 14	5MHz	16QAM	23330	1RB#0	22.32	24.62	34.77	PASS
Band 14	5MHz	16QAM	23330	1RB#12	22.49	24.79	34.77	PASS
Band 14	5MHz	16QAM	23330	1RB#24	22.34	24.64	34.77	PASS
Band 14	5MHz	16QAM	23330	25RB#0	21.22	23.52	34.77	PASS
Band 14	5MHz	16QAM	23355	1RB#0	22.32	24.62	34.77	PASS
Band 14	5MHz	16QAM	23355	1RB#12	22.41	24.71	34.77	PASS
Band 14	5MHz	16QAM	23355	1RB#24	22.32	24.62	34.77	PASS
Band 14	5MHz	16QAM	23355	25RB#0	21.19	23.49	34.77	PASS
Band 14	5MHz	64QAM	23305	1RB#0	21.28	23.58	34.77	PASS
Band 14	5MHz	64QAM	23305	1RB#12	21.30	23.6	34.77	PASS
Band 14	5MHz	64QAM	23305	1RB#24	21.27	23.57	34.77	PASS



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Band 14	5MHz	64QAM	23305	25RB#0	20.18	22.48	34.77	PASS
Band 14	5MHz	64QAM	23330	1RB#0	21.30	23.6	34.77	PASS
Band 14	5MHz	64QAM	23330	1RB#12	21.35	23.65	34.77	PASS
Band 14	5MHz	64QAM	23330	1RB#24	21.25	23.55	34.77	PASS
Band 14	5MHz	64QAM	23330	25RB#0	20.17	22.47	34.77	PASS
Band 14	5MHz	64QAM	23355	1RB#0	21.22	23.52	34.77	PASS
Band 14	5MHz	64QAM	23355	1RB#12	21.19	23.49	34.77	PASS
Band 14	5MHz	64QAM	23355	1RB#24	21.16	23.46	34.77	PASS
Band 14	5MHz	64QAM	23355	25RB#0	20.20	22.5	34.77	PASS
Band 14	10MHz	QPSK	23330	1RB#0	23.15	25.45	34.77	PASS
Band 14	10MHz	QPSK	23330	1RB#24	23.15	25.45	34.77	PASS
Band 14	10MHz	QPSK	23330	1RB#49	23.03	25.33	34.77	PASS
Band 14	10MHz	QPSK	23330	50RB#0	22.19	24.49	34.77	PASS
Band 14	10MHz	16QAM	23330	1RB#0	22.38	24.68	34.77	PASS
Band 14	10MHz	16QAM	23330	1RB#24	22.42	24.72	34.77	PASS
Band 14	10MHz	16QAM	23330	1RB#49	22.25	24.55	34.77	PASS
Band 14	10MHz	16QAM	23330	50RB#0	21.19	23.49	34.77	PASS
Band 14	10MHz	64QAM	23330	1RB#0	21.26	23.56	34.77	PASS
Band 14	10MHz	64QAM	23330	1RB#24	21.37	23.67	34.77	PASS
Band 14	10MHz	64QAM	23330	1RB#49	21.15	23.45	34.77	PASS
Band 14	10MHz	64QAM	23330	50RB#0	20.20	22.5	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
Band14	10MHz	64QAM	23330	50RB#0	6.52	13	PASS



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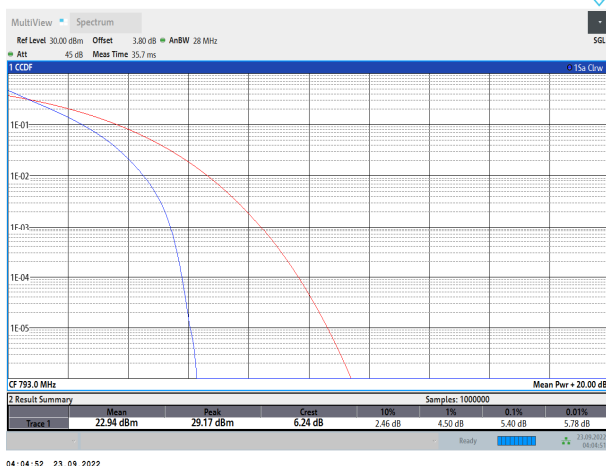
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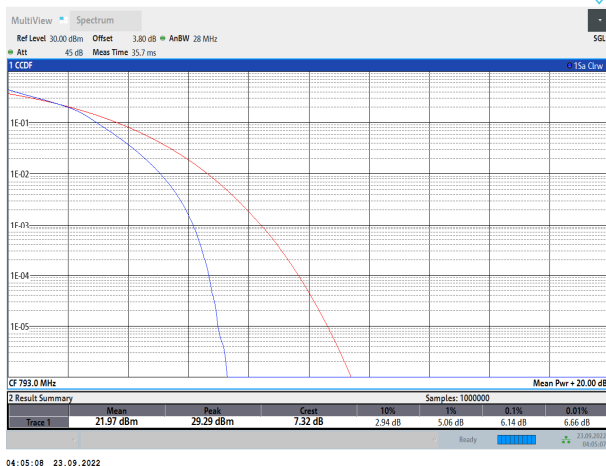
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Test Graphs

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



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



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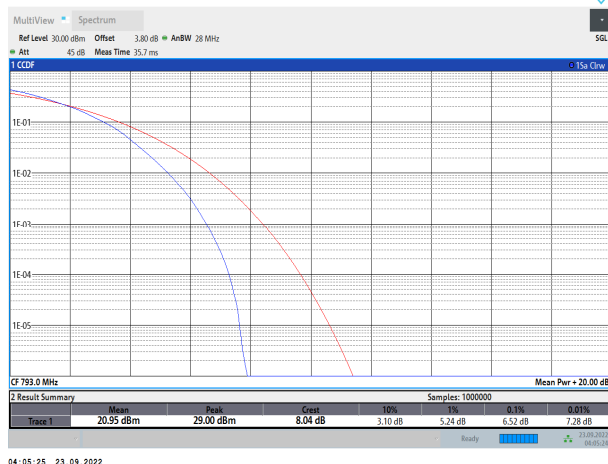
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Band14-10MHz-64QAM-23330-50RB#0



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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
Band14	10MHz	64QAM	23330	50RB#0	PASS	PASS



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Test Graphs



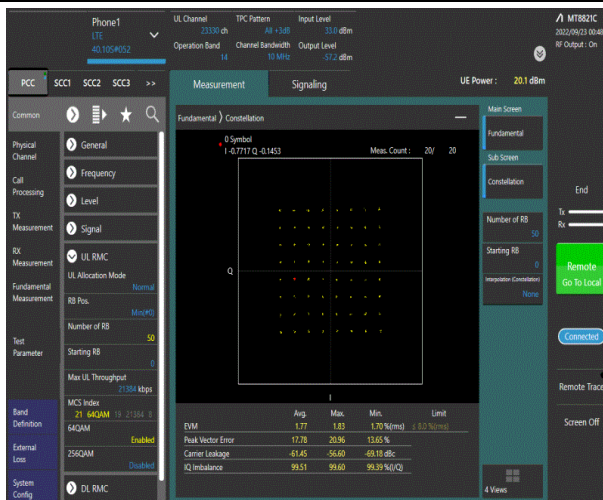
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Band14-10MHz-64QAM-23330-50RB#0



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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	5MHz	64QAM	23305	25RB#0	4.48	4.90	PASS
Band14	5MHz	64QAM	23330	25RB#0	4.482	4.89	PASS
Band14	5MHz	64QAM	23355	25RB#0	4.48	4.91	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.947	9.70	PASS
Band14	10MHz	16QAM	23330	50RB#0	8.927	9.70	PASS
Band14	10MHz	64QAM	23330	50RB#0	8.936	9.70	PASS



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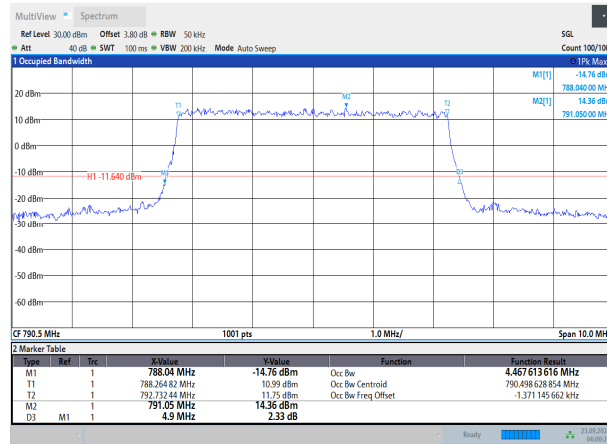
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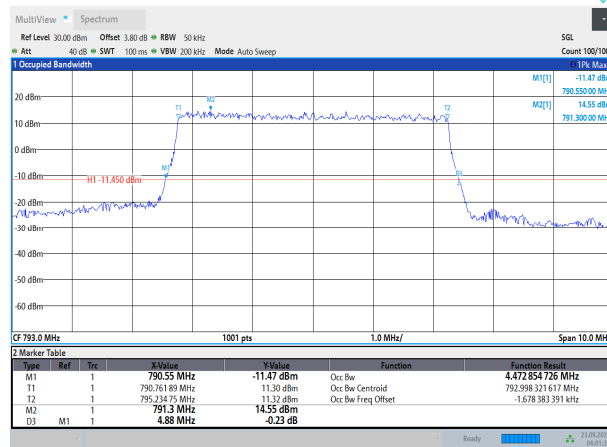
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Test Graphs

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



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



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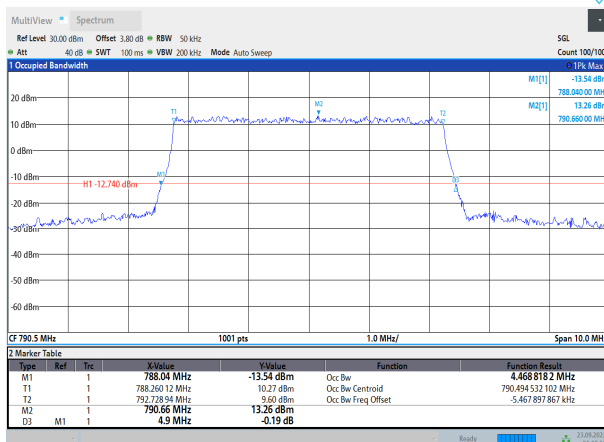
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Band14-5MHz-QPSK-23355-25RB#0



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



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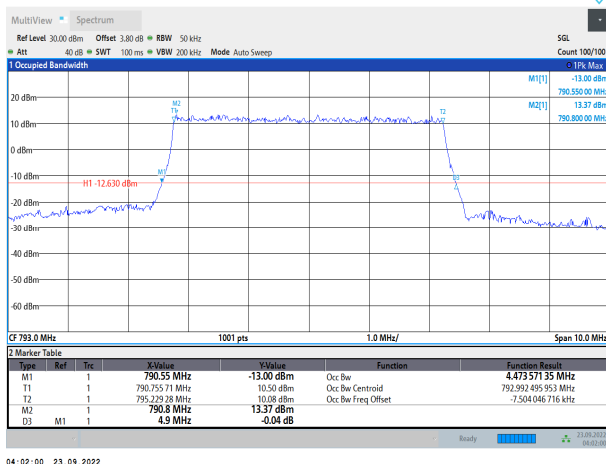
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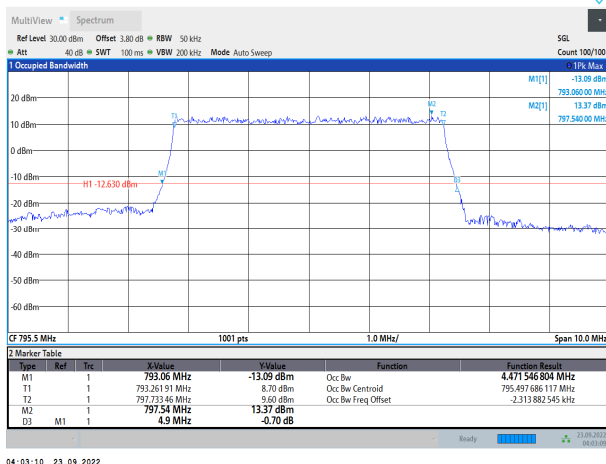
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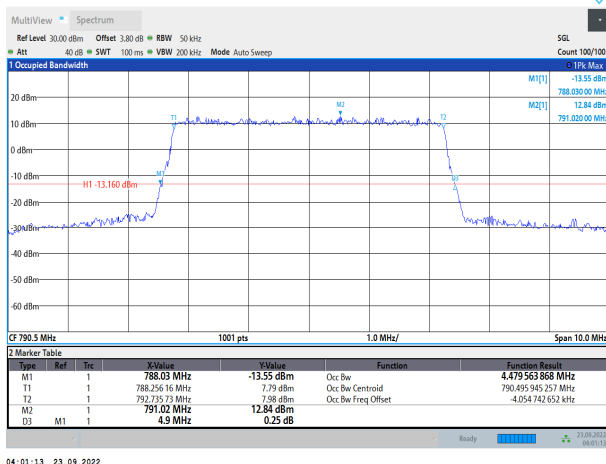


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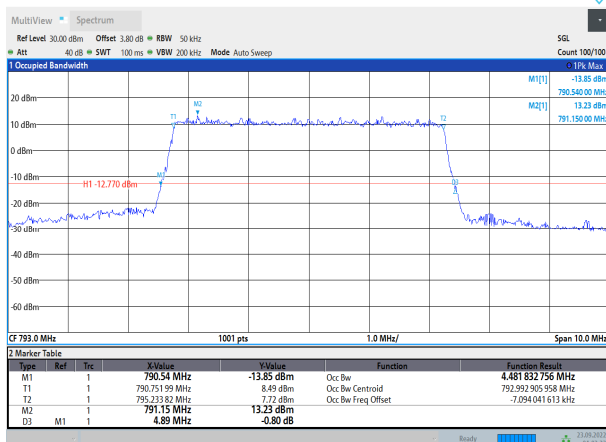
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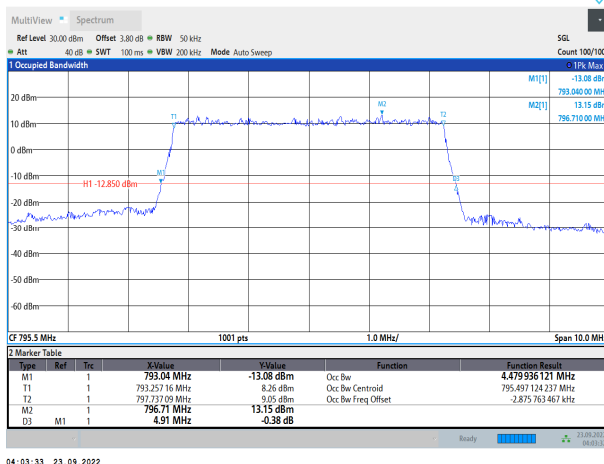
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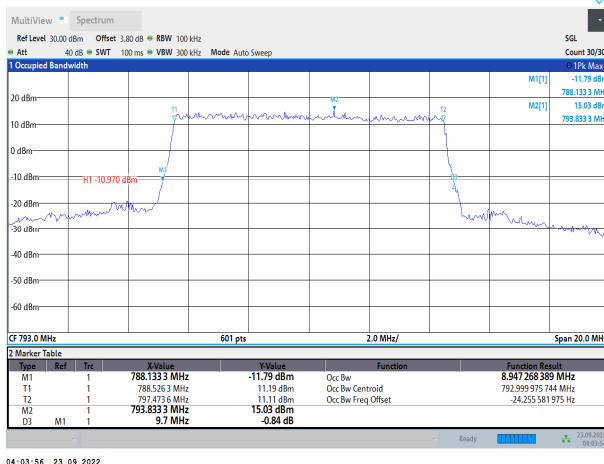
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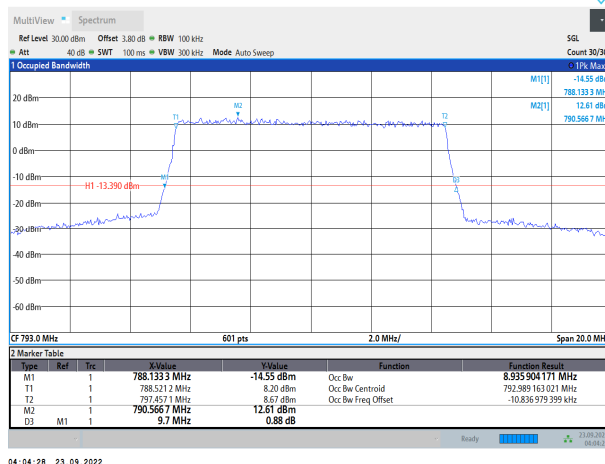
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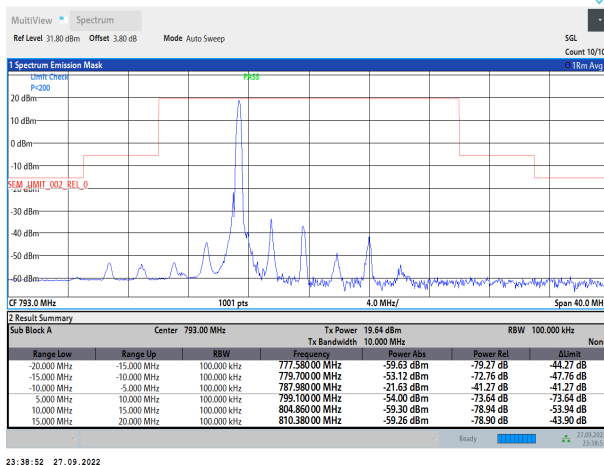
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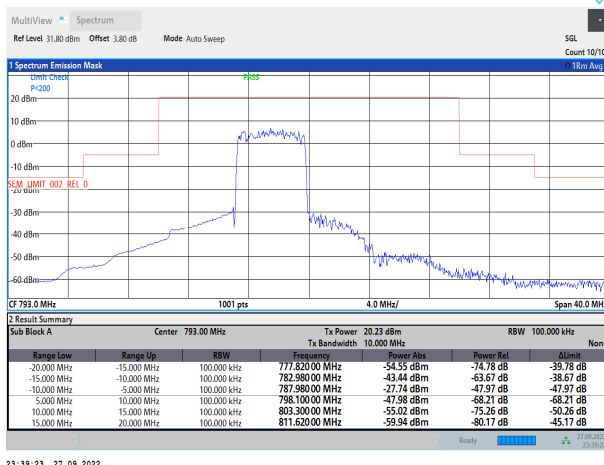
Emission Mask

Test Graphs

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



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

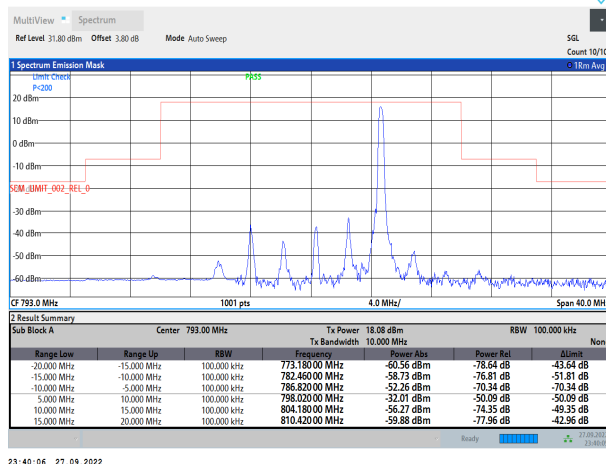


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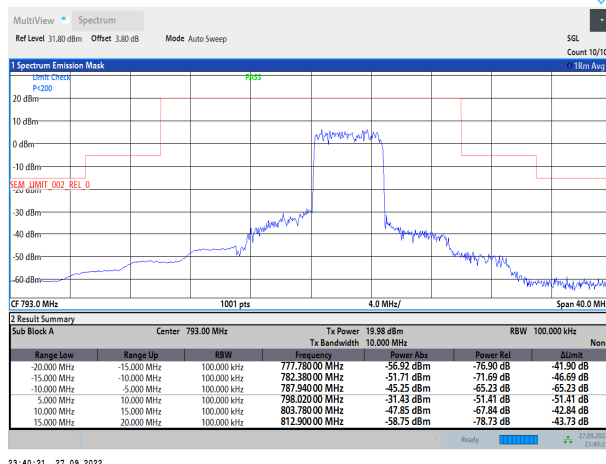
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Band14-5MHz-QPSK-23355-1RB#24



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



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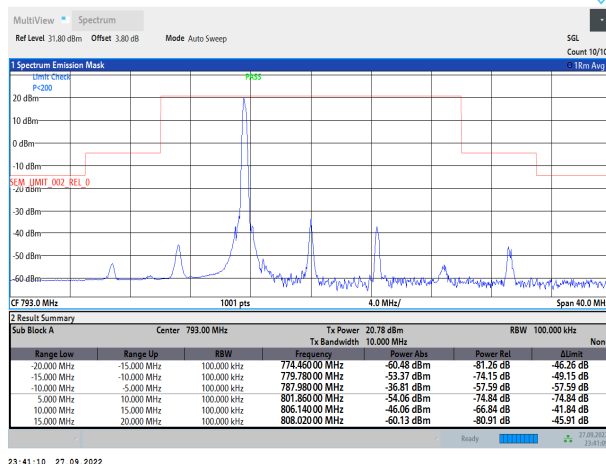
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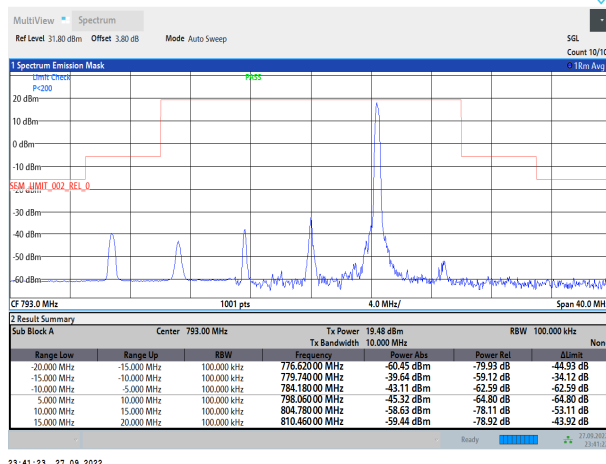
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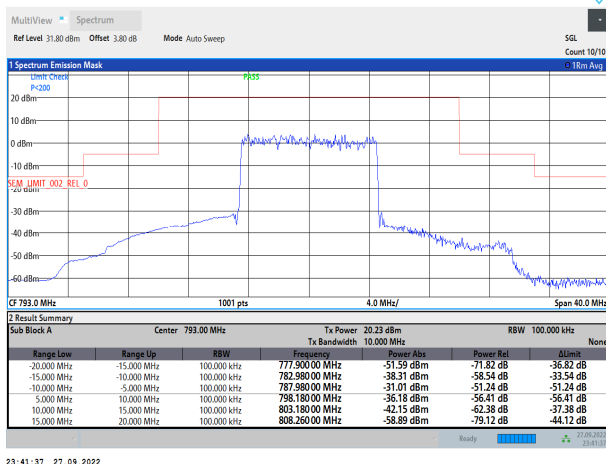
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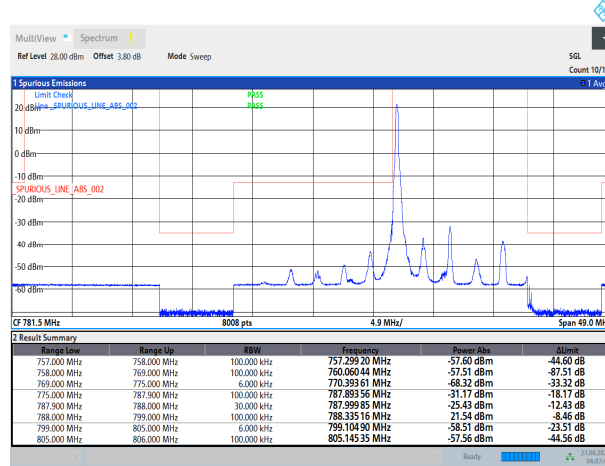
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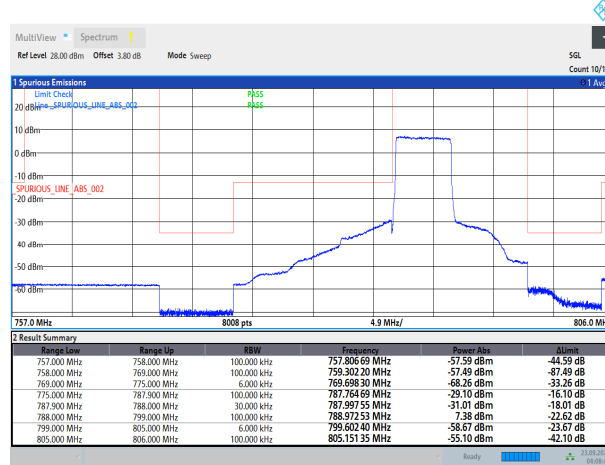
Band Edge

Test Graphs

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



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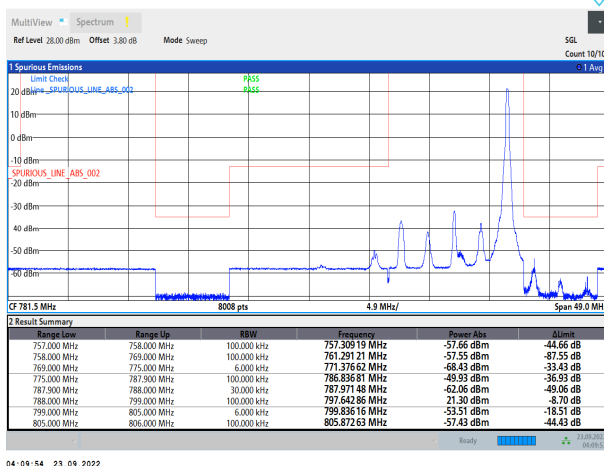
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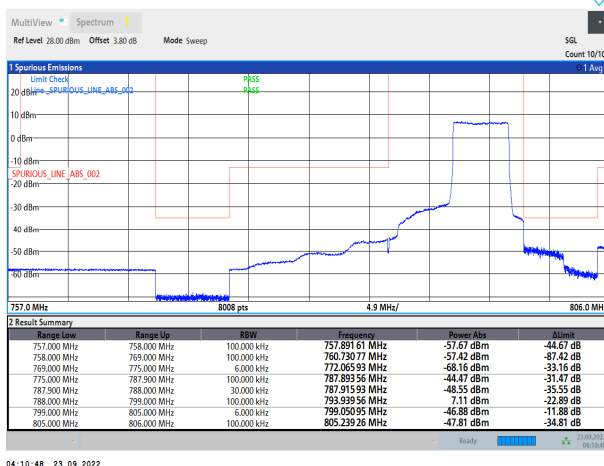
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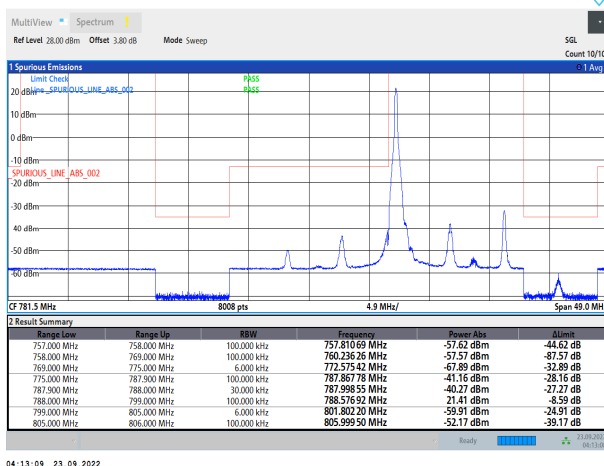
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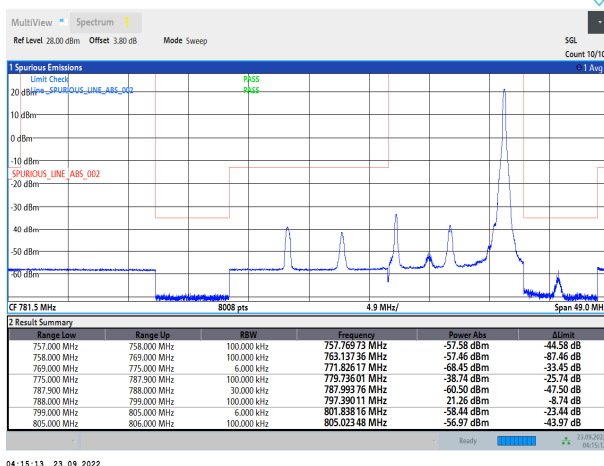
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Band14-10MHz-QPSK-23330-1RB#49



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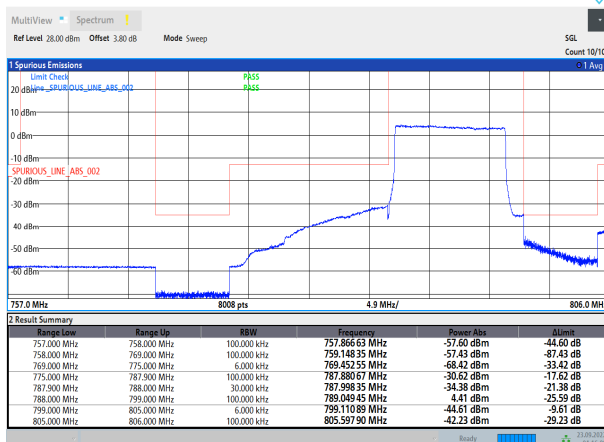
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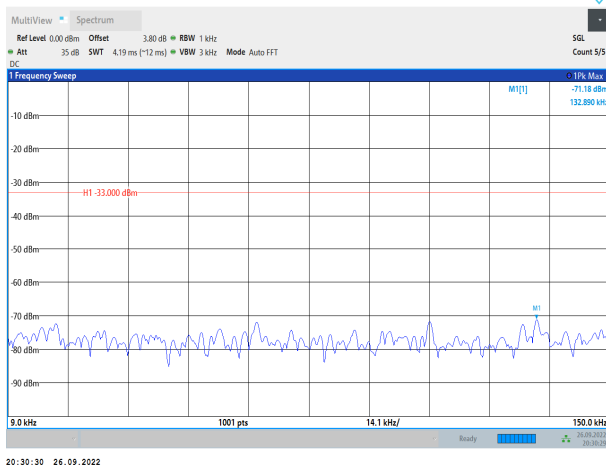
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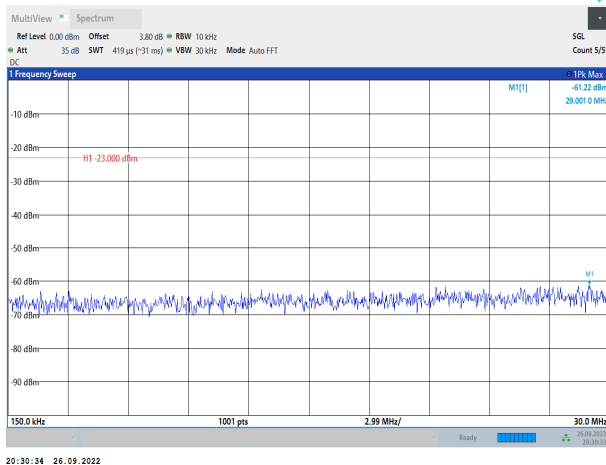
Conducted Spurious Emission

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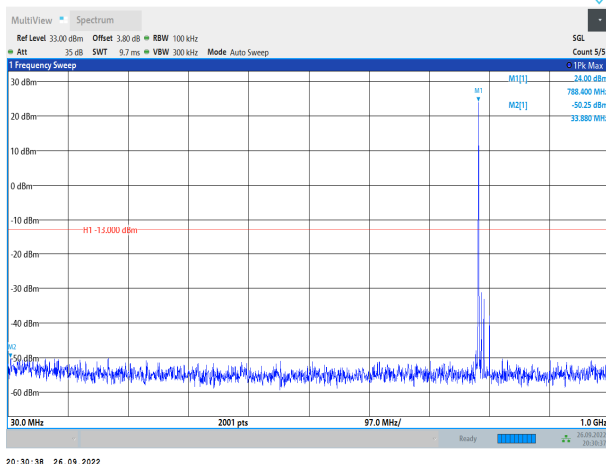
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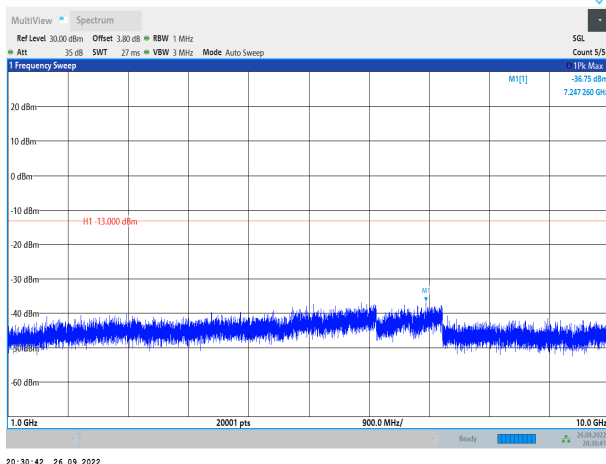
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Band14-10MHz-QPSK-23330-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE Band 14_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	55.46	-48.29	25.38	-62.71	-40.00	22.71	226	212	Horizontal
2	2365.0200	51.81	-47.47	27.42	-63.49	-13.00	50.49	237	2	Horizontal
3	3153.3600	49.52	-46.50	29.60	-62.64	-13.00	49.64	159	319	Horizontal
4	3941.7000	49.34	-46.22	30.66	-61.47	-13.00	48.47	182	157	Horizontal
5	4730.0400	47.44	-45.75	32.11	-61.46	-13.00	48.46	176	356	Horizontal
6	5518.3800	46.53	-45.16	32.93	-60.96	-13.00	47.96	235	130	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	54.30	-48.29	25.38	-63.87	-40.00	23.87	179	338	Vertical
2	2365.0200	50.44	-47.47	27.42	-64.86	-13.00	51.86	215	81	Vertical
3	3153.3600	49.61	-46.50	29.60	-62.55	-13.00	49.55	226	230	Vertical
4	3941.7000	47.93	-46.22	30.66	-62.88	-13.00	49.88	172	347	Vertical
5	4730.0400	46.85	-45.75	32.11	-62.05	-13.00	49.05	239	354	Vertical
6	5518.3800	46.56	-45.16	32.93	-60.93	-13.00	47.93	257	148	Vertical



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Test Band = LTE Band 14_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	57.50	-48.29	25.37	-60.67	-40.00	20.67	192	199	Horizontal
2	2372.5200	51.84	-47.46	27.43	-63.46	-13.00	50.46	163	212	Horizontal
3	3163.3600	51.05	-46.46	29.62	-61.05	-13.00	48.05	175	306	Horizontal
4	3954.2000	49.59	-46.21	30.69	-61.19	-13.00	48.19	186	199	Horizontal
5	4745.0400	47.59	-45.73	32.15	-61.25	-13.00	48.25	249	117	Horizontal
6	5535.8800	47.59	-45.19	32.95	-59.91	-13.00	46.91	261	13	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	54.70	-48.29	25.37	-63.47	-40.00	23.47	169	121	Vertical
2	2372.5200	50.63	-47.46	27.43	-64.67	-13.00	51.67	241	283	Vertical
3	3163.3600	50.56	-46.46	29.62	-61.54	-13.00	48.54	255	147	Vertical
4	3954.2000	49.12	-46.21	30.69	-61.66	-13.00	48.66	287	106	Vertical
5	4745.0400	48.84	-45.73	32.15	-60.00	-13.00	47.00	193	41	Vertical
6	5535.8800	46.89	-45.19	32.95	-60.61	-13.00	47.61	165	358	Vertical



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Test Band = LTE Band 14_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	57.00	-48.29	25.37	-61.18	-40.00	21.18	163	199	Horizontal
2	2380.0200	51.59	-47.46	27.43	-63.70	-13.00	50.70	172	334	Horizontal
3	3173.3600	50.66	-46.41	29.64	-61.37	-13.00	48.37	159	0	Horizontal
4	3966.7000	48.60	-46.21	30.72	-62.15	-13.00	49.15	223	0	Horizontal
5	4760.0400	47.81	-45.70	32.20	-60.95	-13.00	47.95	214	6	Horizontal
6	5553.3800	47.51	-45.21	32.97	-59.99	-13.00	46.99	176	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	1586.6800	55.11	-48.29	25.37	-63.07	-40.00	23.07	167	336	Vertical
2	2380.0200	50.05	-47.46	27.43	-65.24	-13.00	52.24	159	283	Vertical
3	3173.3600	51.82	-46.41	29.64	-60.21	-13.00	47.21	224	359	Vertical
4	3966.7000	48.94	-46.21	30.72	-61.81	-13.00	48.81	263	54	Vertical
5	4760.0400	47.70	-45.70	32.20	-61.06	-13.00	48.06	175	81	Vertical
6	5553.3800	47.30	-45.21	32.97	-60.20	-13.00	47.20	243	243	Vertical



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Test Band = LTE Band 14_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	1577.1800	54.57	-48.29	25.38	-63.60	-40.00	23.60	233	185	Horizontal
2	2365.7700	50.45	-47.47	27.42	-64.85	-13.00	51.85	142	64	Horizontal
3	3154.3600	50.86	-46.50	29.61	-61.29	-13.00	48.29	176	2	Horizontal
4	3942.9500	48.87	-46.22	30.67	-61.94	-13.00	48.94	187	239	Horizontal
5	4731.5400	49.04	-45.75	32.11	-59.86	-13.00	46.86	192	199	Horizontal
6	5520.1300	47.15	-45.17	32.93	-60.34	-13.00	47.34	226	185	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	1577.1800	52.96	-48.29	25.38	-65.21	-40.00	25.21	196	80	Vertical
2	2365.7700	51.71	-47.47	27.42	-63.59	-13.00	50.59	214	354	Vertical
3	3154.3600	50.60	-46.50	29.61	-61.55	-13.00	48.55	225	360	Vertical
4	3942.9500	49.61	-46.22	30.67	-61.20	-13.00	48.20	263	256	Vertical
5	4731.5400	47.36	-45.75	32.11	-61.54	-13.00	48.54	179	66	Vertical
6	5520.1300	47.67	-45.17	32.93	-59.82	-13.00	46.82	251	282	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
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

|MAX(Δf)| = 4.1Hz

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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