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Appendix B.16

LTE Band 30



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm/5M)	EIRP (dBm/5M)	Limit (dBm/5M)	Verdict
Band30	5MHz	QPSK	27685	1RB#0	20.85	23.16	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#12	20.92	23.23	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	20.78	23.09	23.98	PASS
Band30	5MHz	QPSK	27685	25RB#0	19.88	22.19	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	20.77	23.08	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#12	20.95	23.26	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	20.83	23.14	23.98	PASS
Band30	5MHz	QPSK	27710	25RB#0	19.84	22.15	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	20.80	23.11	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#12	20.85	23.16	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	20.63	22.94	23.98	PASS
Band30	5MHz	QPSK	27735	25RB#0	19.40	21.71	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#0	20.09	22.40	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#12	20.20	22.51	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#24	20.05	22.36	23.98	PASS
Band30	5MHz	16QAM	27685	25RB#0	18.89	21.20	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#0	19.82	22.13	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#12	19.93	22.24	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#24	19.78	22.09	23.98	PASS
Band30	5MHz	16QAM	27710	25RB#0	18.85	21.16	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#0	19.75	22.06	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#12	19.86	22.17	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#24	19.55	21.86	23.98	PASS
Band30	5MHz	16QAM	27735	25RB#0	18.53	20.84	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	20.80	23.11	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#24	20.80	23.11	23.98	PASS



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Band30	10MHz	QPSK	27710	1RB#49	20.65	22.96	23.98	PASS
Band30	10MHz	QPSK	27710	50RB#0	19.85	22.16	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#0	20.02	22.33	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#24	20.03	22.34	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#49	19.66	21.97	23.98	PASS
Band30	10MHz	16QAM	27710	50RB#0	18.68	20.99	23.98	PASS



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EIRP Density Result

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm/5M)	EIRP (dBm/5M)	Limit (dBm/5M)	Verdict
Band30	5MHz	QPSK	27685	1RB#0	20.67	22.98	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#12	20.60	22.91	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	20.36	22.67	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	20.49	22.80	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#12	20.14	22.45	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	19.90	22.21	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	20.31	22.62	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#12	20.04	22.35	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	20.03	22.34	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#24	20.77	23.08	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#49	20.64	22.95	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	20.22	22.53	23.98	PASS



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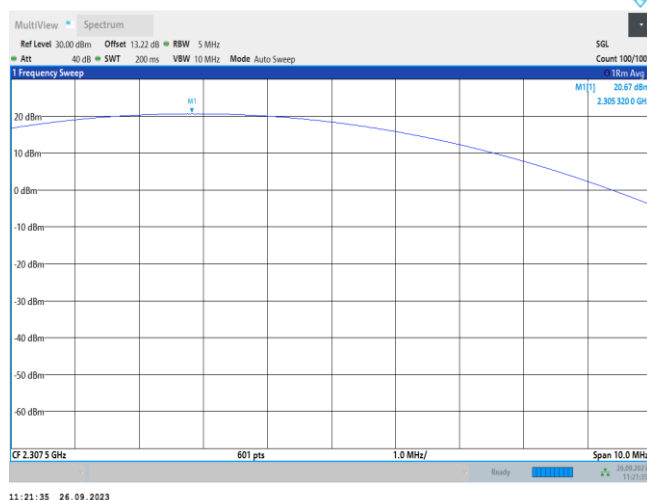
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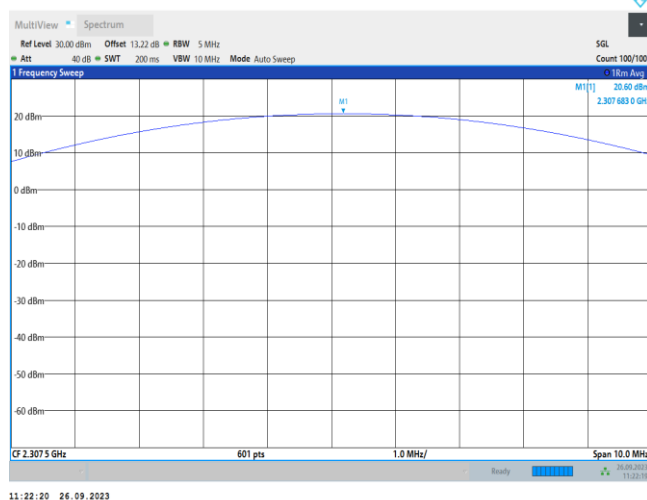
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Test plots

Band30-5MHz-QPSK-27685-1RB#0



Band30-5MHz-QPSK-27685-1RB#12



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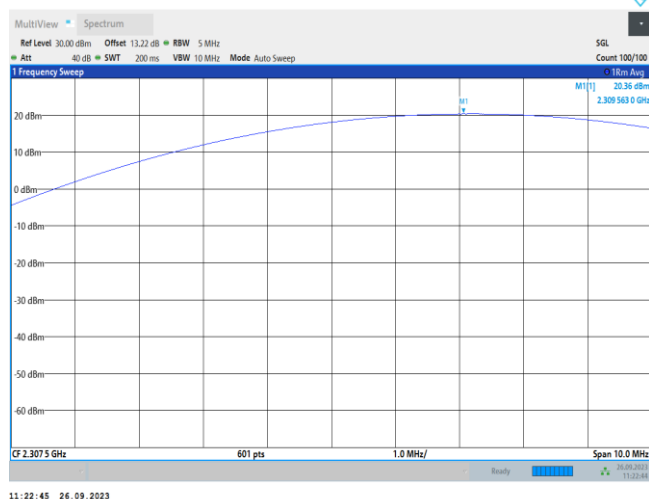
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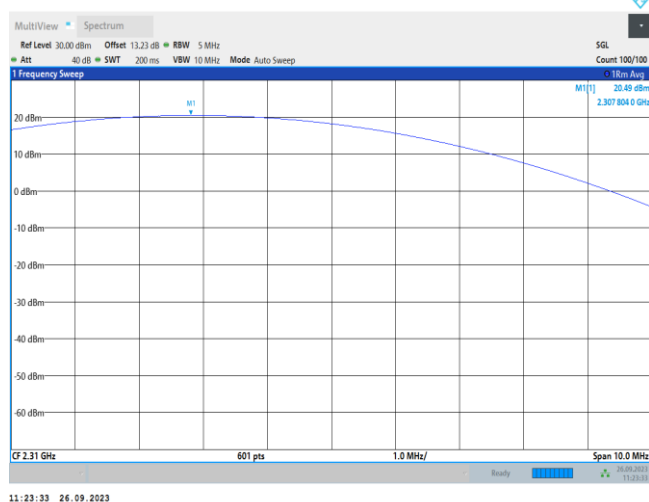
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Band30-5MHz-QPSK-27685-1RB#24



Band30-5MHz-QPSK -27710-1RB#0



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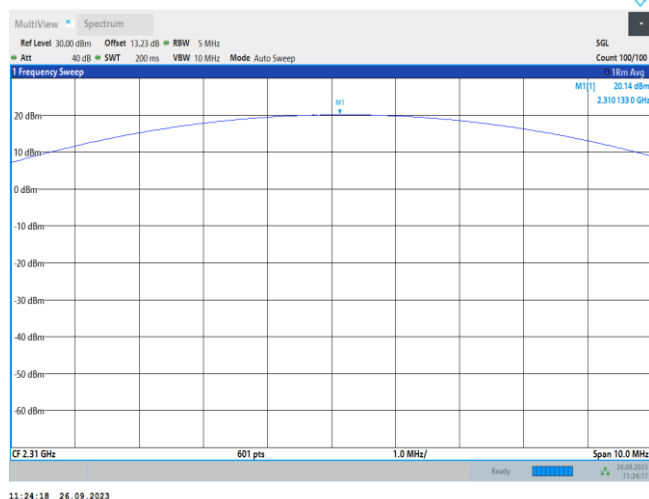
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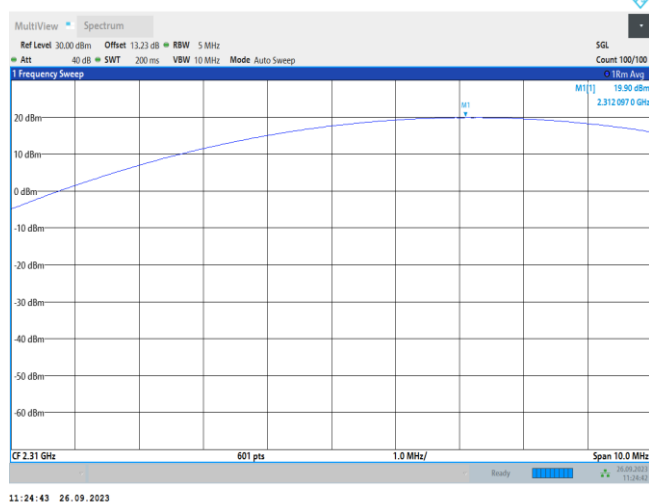
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Band30-5MHz-QPSK -27710-1RB#12



Band30-5MHz-QPSK -27710-1RB#24



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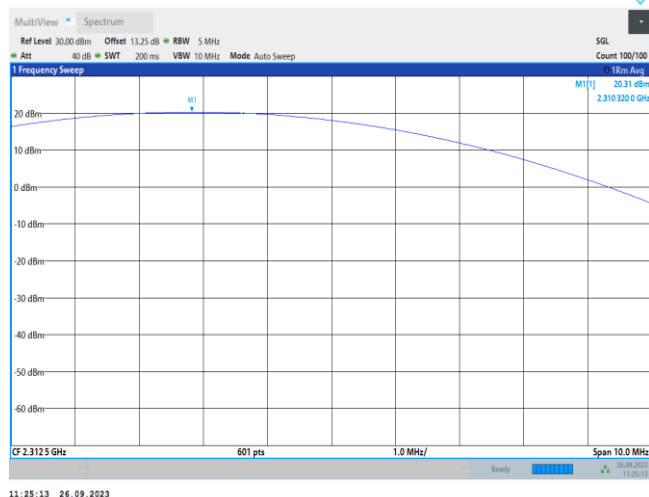
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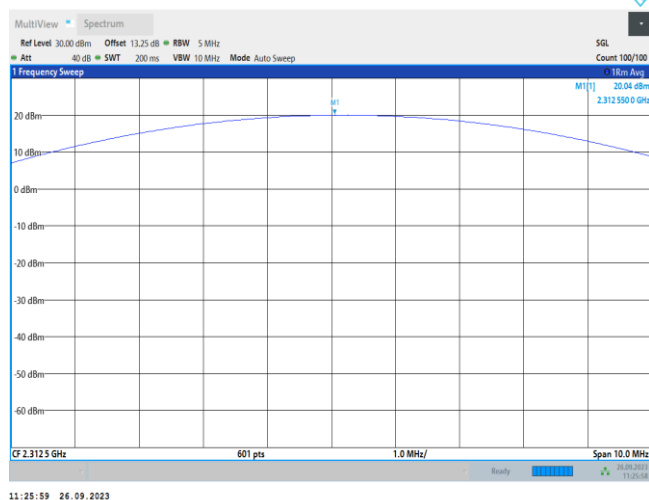
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Band30-5MHz-QPSK -27735-1RB#0



Band30-5MHz-QPSK-27735-1RB#12



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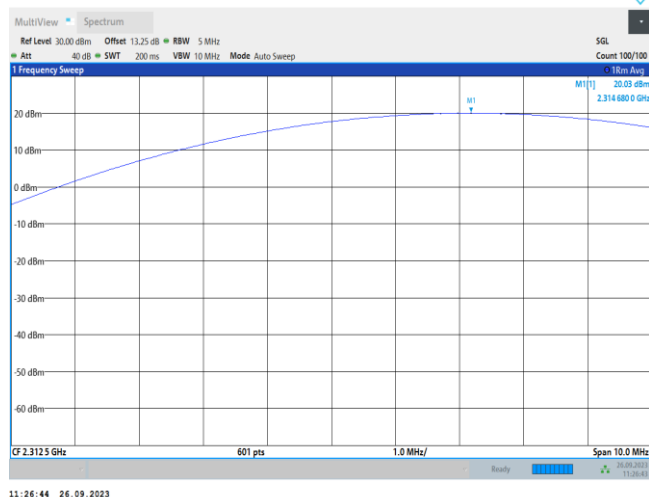


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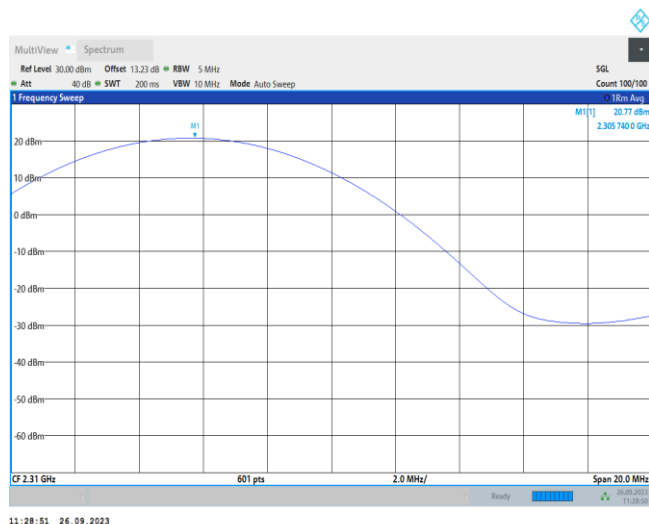
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Band30-5MHz-QPSK -27735-1RB#24



Band30-10MHz-QPSK-27710-1RB#0

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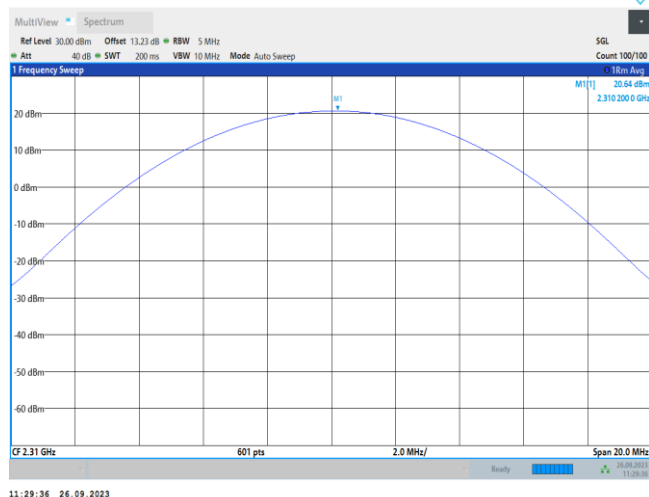
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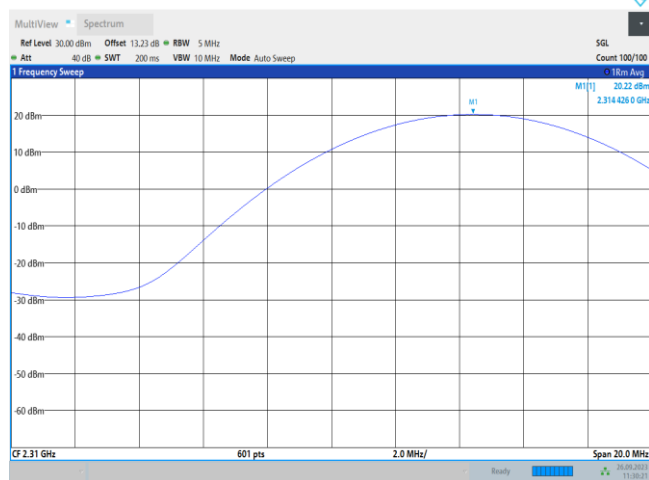
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Band30-10MHz-QPSK-27710-1RB#49



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band30	10MHz	QPSK	27710	50RB#0	5.38	13	PASS
Band30	10MHz	16QAM	27710	50RB#0	6.14	13	PASS



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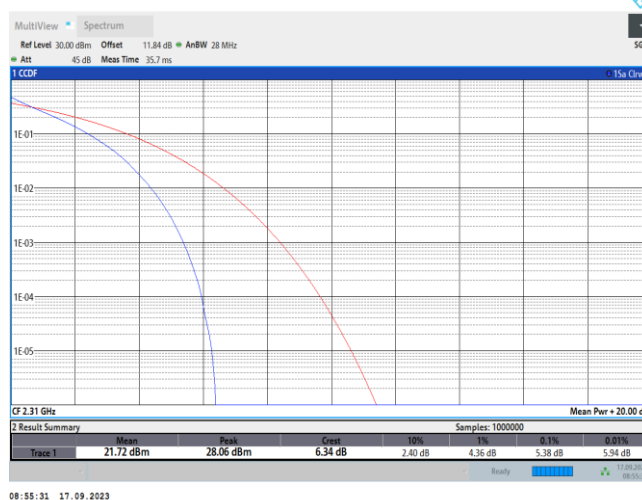
Report No.: XEWM2309000462RG01

Rev.: 01

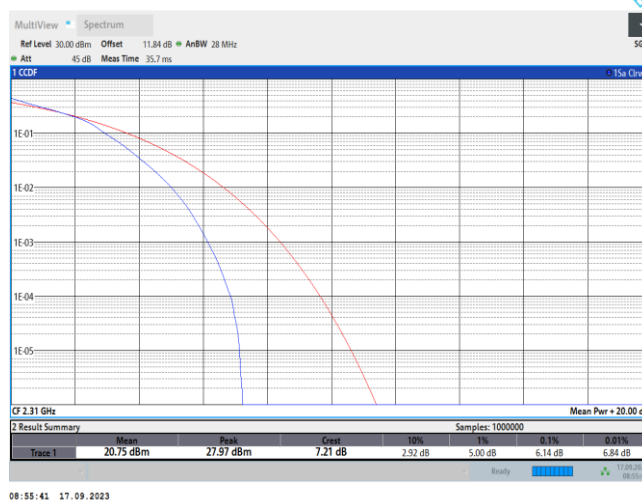
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Test Graphs

Band30-10MHz-QPSK-27710-50RB#0



Band30-10MHz-16QAM-27710-50RB#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
Band30	5MHz	QPSK	27685	25RB#0	4.495	4.76	PASS
Band30	5MHz	QPSK	27710	25RB#0	4.496	4.78	PASS
Band30	5MHz	QPSK	27735	25RB#0	4.495	4.78	PASS
Band30	5MHz	16QAM	27685	25RB#0	4.493	4.76	PASS
Band30	5MHz	16QAM	27710	25RB#0	4.491	4.76	PASS
Band30	5MHz	16QAM	27735	25RB#0	4.487	4.77	PASS
Band30	10MHz	QPSK	27710	50RB#0	8.929	9.33	PASS
Band30	10MHz	16QAM	27710	50RB#0	8.923	9.33	PASS



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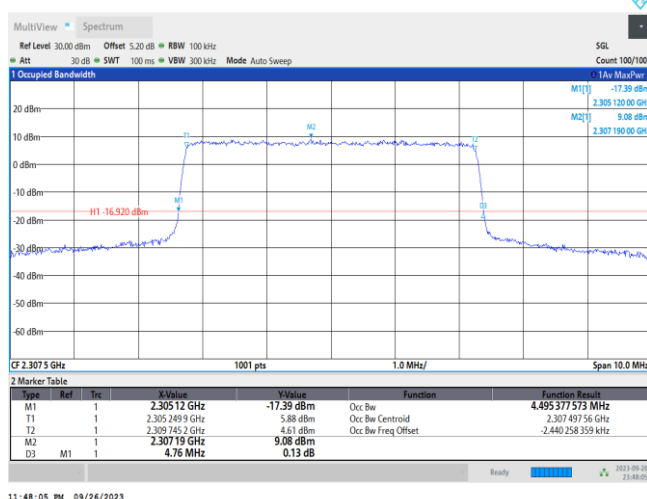
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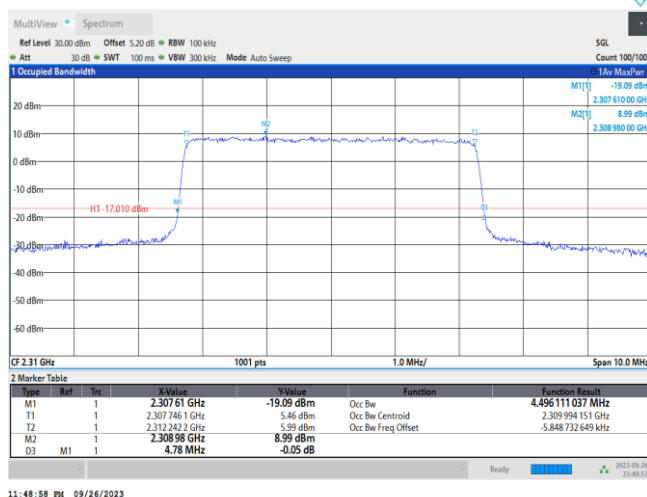
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Test Graphs

Band30-5MHz-QPSK-27685-25RB#0



Band30-5MHz-QPSK-27710-25RB#0

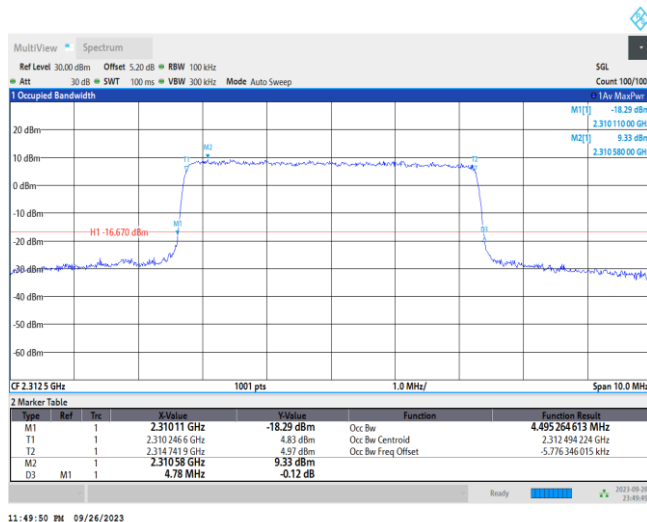


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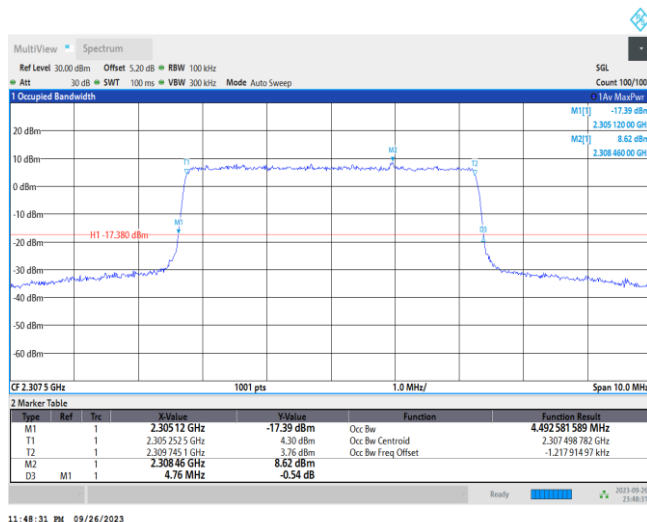
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Band30-5MHz-QPSK-27735-25RB#0



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Band30-5MHz-16QAM-27685-25RB#0



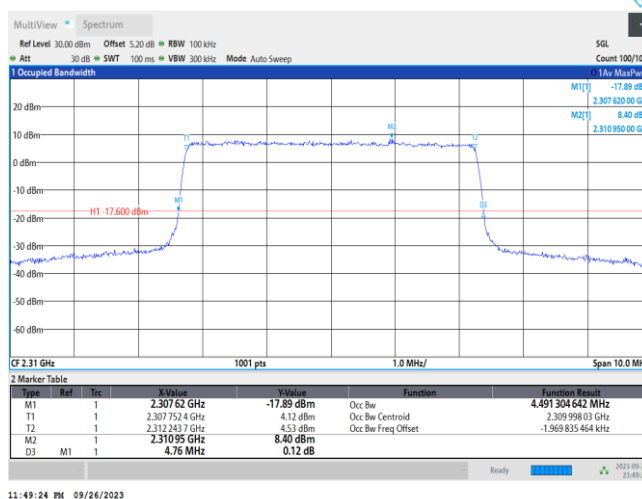
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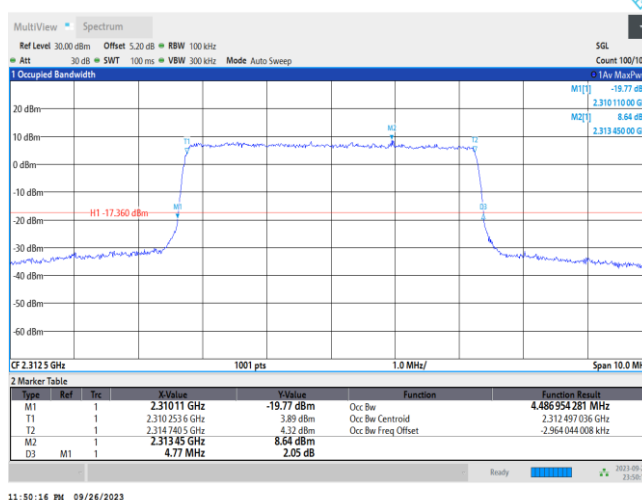
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Band30-5MHz-16QAM-27710-25RB#0



Band30-5MHz-16QAM-27735-25RB#0

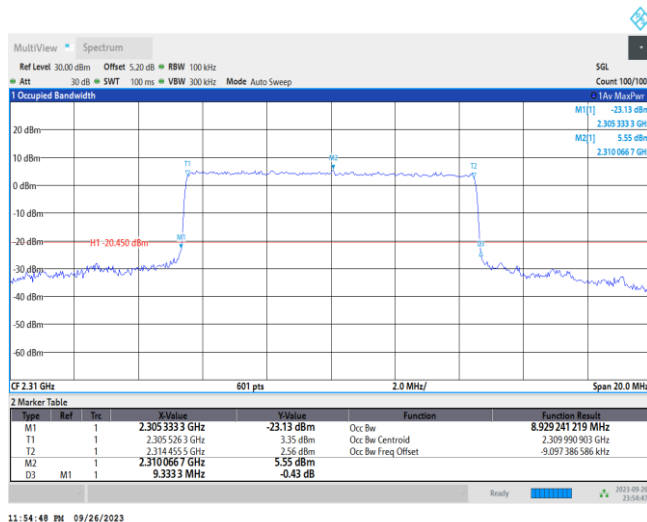


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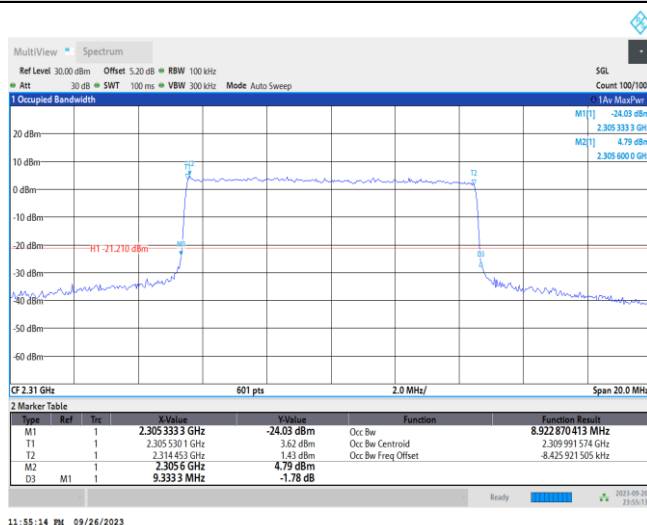
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Band30-10MHz-QPSK-27710-50RB#0



Band30-10MHz-16QAM-27710-50RB#0



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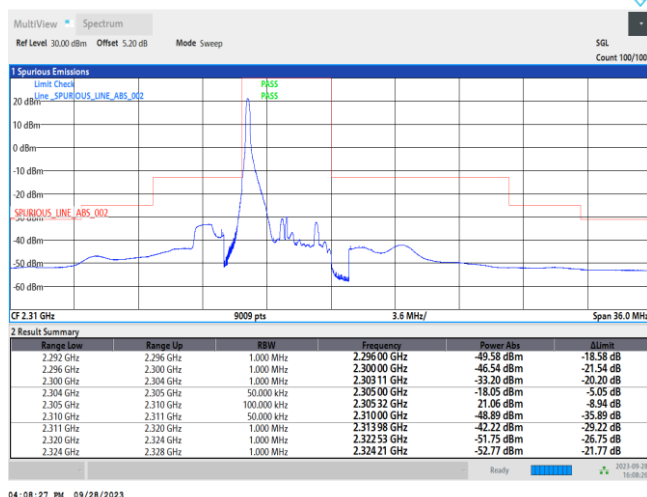
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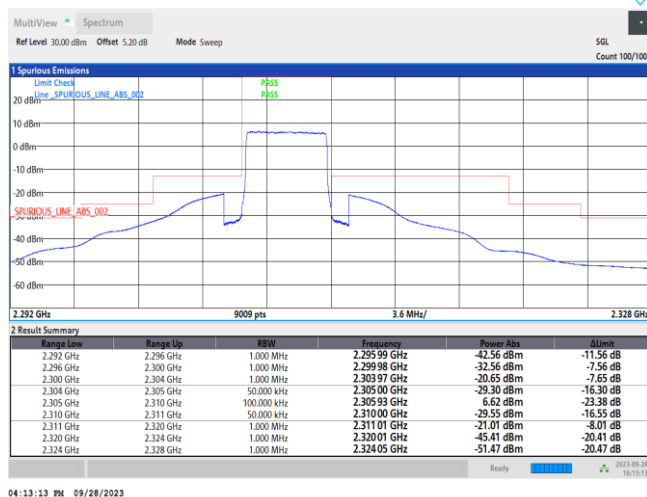
Band Edge

Test Graphs

Band30-5MHz-QPSK-27685-1RB#0



Band30-5MHz-QPSK-27685-25RB#0

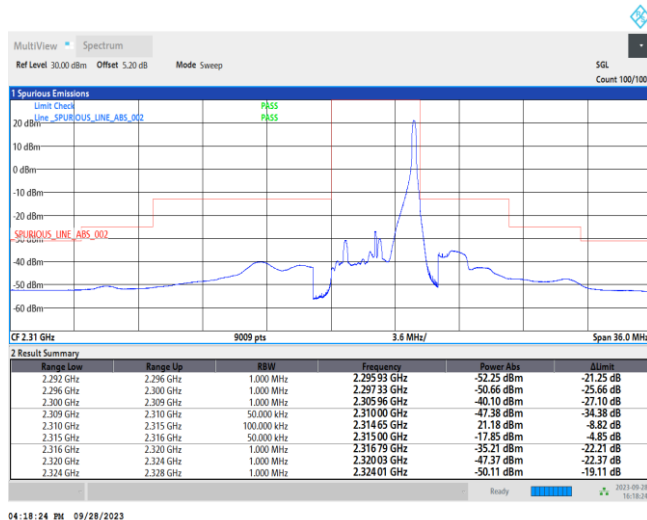


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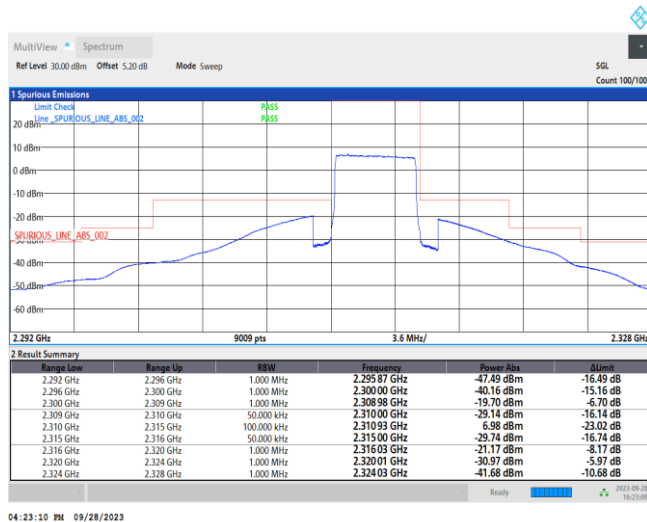
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Band30-5MHz-QPSK-27735-1RB#24



Band30-5MHz-QPSK-27735-25RB#0

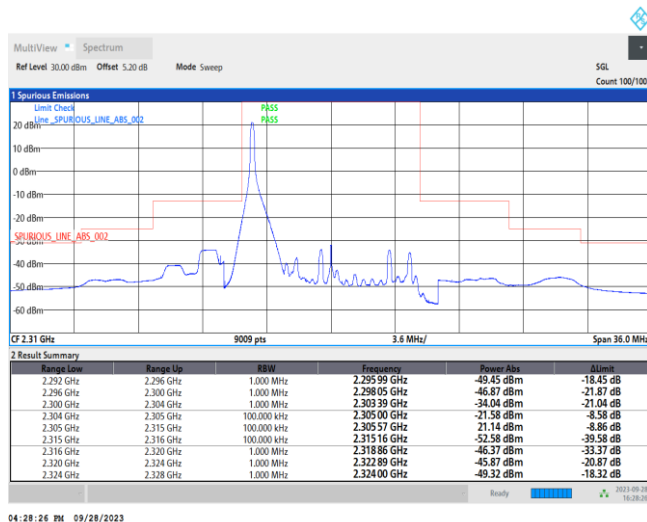


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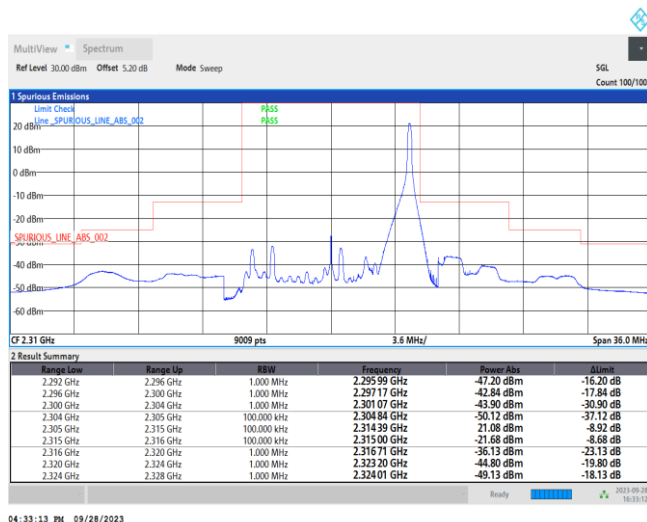
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Band30-10MHz-QPSK-27710-1RB#0



Band30-10MHz-QPSK-27710-1RB#49

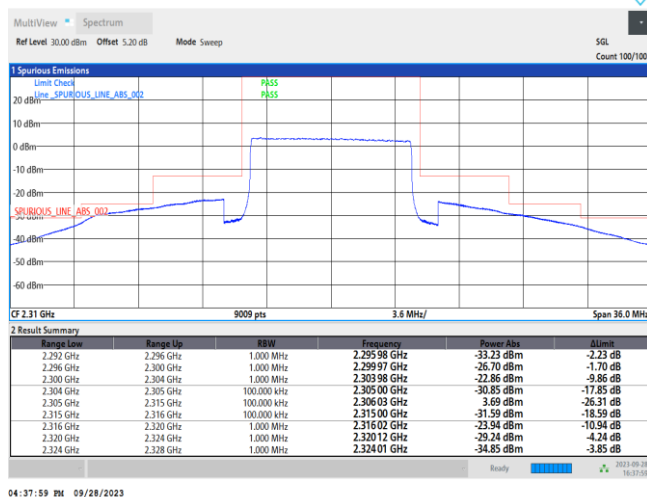


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Band30-10MHz-QPSK-27710-50RB#0



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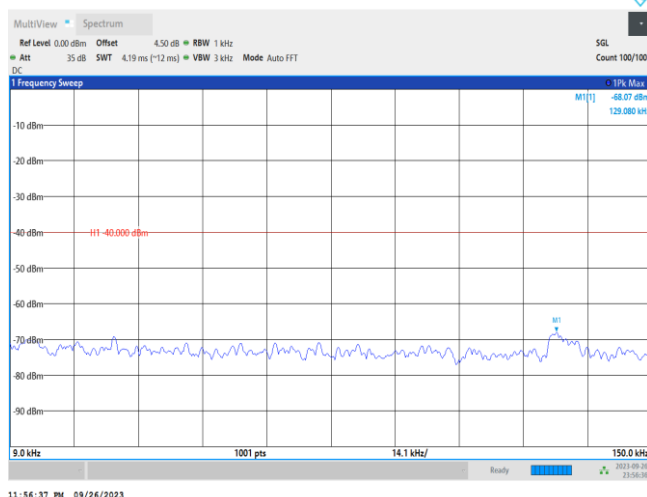
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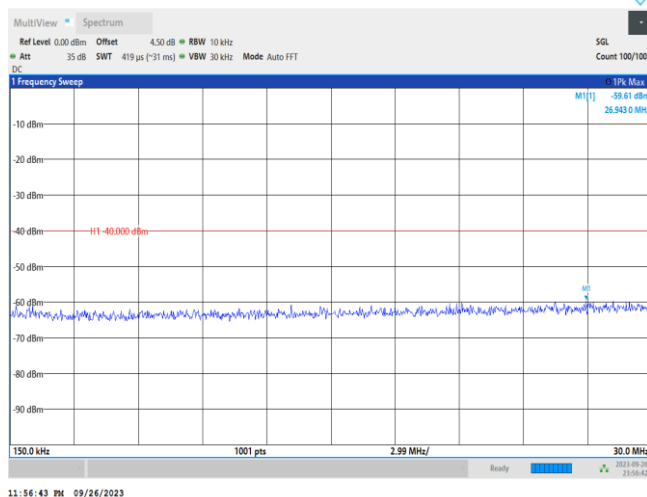
Conducted Spurious Emission

Test Graphs

Band30-10MHz-QPSK-27710-1RB#0-Range1:0.009~0.15MHz



Band30-10MHz-QPSK-27710-1RB#0-Range2:0.15~30MHz



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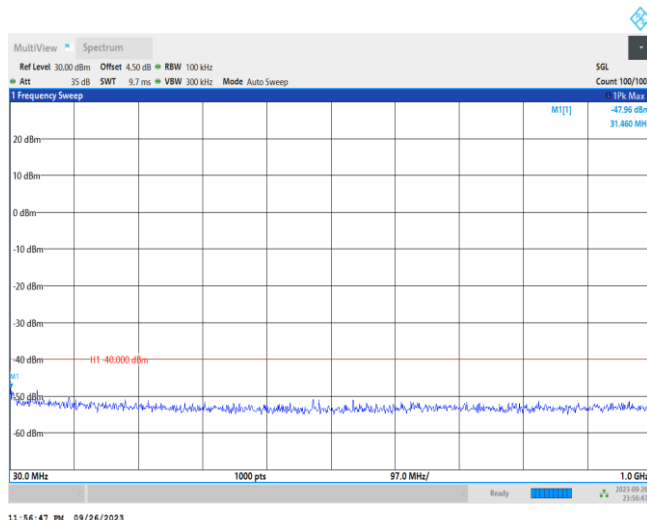
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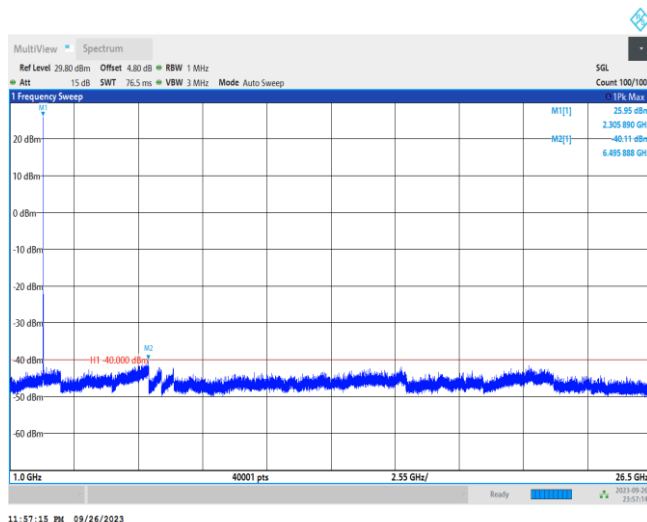
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Band30-10MHz-QPSK-27710-1RB#0-Range3:30~1000MHz



Band30-10MHz-QPSK-27710-1RB#0-Range4:1000~26500MHz



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Field Strength of Spurious Radiation

Test Band = LTE_30

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2823	29.04	-17.32	28.30	-55.24	-40.00	15.24	Horizontal
2	4024.5	47.43	-44.19	29.70	-62.32	-40.00	22.32	Horizontal
3	5524.5	49.98	-41.75	32.30	-54.73	-40.00	14.73	Horizontal
4	9909	42.34	-35.20	38.61	-49.51	-40.00	9.51	Horizontal
5	13581.5	42.88	-37.87	40.06	-50.19	-40.00	10.19	Horizontal
6	17994.5	41.02	-43.08	48.10	-49.22	-40.00	9.22	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2976.5	28.28	-17.23	28.46	-55.75	-40.00	15.75	Vertical
2	4611	48.82	-43.16	30.12	-59.48	-40.00	19.48	Vertical
3	5524.5	48.75	-41.75	32.30	-55.96	-40.00	15.96	Vertical
4	9924	42.76	-35.59	38.62	-49.47	-40.00	9.47	Vertical
5	13566	43.32	-37.89	40.03	-49.80	-40.00	9.80	Vertical
6	17991.5	41.16	-43.11	48.05	-49.16	-40.00	9.16	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
Band30	10MHz	QPSK	27710	50RB#0	VL	NT	4.29	0.001857	PASS
Band30	10MHz	QPSK	27710	50RB#0	VN	NT	-16.64	-0.007203	PASS
Band30	10MHz	QPSK	27710	50RB#0	VH	NT	-9.41	-0.004074	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band30	10MHz	QPSK	27710	50RB#0	NV	-30	-24.42	-0.010571	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	-20	-16.44	-0.007117	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	-10	6.21	-0.007117	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	0	-12.29	-0.005320	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	10	-19.70	-0.008528	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	20	-15.65	-0.006775	PASS
Band30	10MHz	QPSK	27710	100RB#0	NV	30	2.15	-0.002678	PASS
Band30	10MHz	QPSK	27710	100RB#0	NV	40	4.37	-0.003745	PASS
Band30	10MHz	QPSK	27710	100RB#0	NV	50	-4.17	-0.001524	PASS

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