Appendix B.18

LTE Band 30

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Effective (Isotropic) Radiated Power Output Data

Test ResultAnt0

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm/5M)	EIRP(dBm/5M)	Limit(dBm/5M)	Verdict
Band30	5MHz	QPSK	27685	1RB#0	21.34	23.65	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#12	21.58	23.89	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	21.28	23.59	23.98	PASS
Band30	5MHz	QPSK	27685	25RB#0	19.93	22.24	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	20.82	23.13	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#12	21.09	23.40	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	20.74	23.05	23.98	PASS
Band30	5MHz	QPSK	27710	25RB#0	19.92	22.23	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	20.80	23.11	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#12	21.01	23.32	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	20.70	23.01	23.98	PASS
Band30	5MHz	QPSK	27735	25RB#0	19.89	22.20	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#0	20.67	22.98	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#12	20.92	23.23	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#24	20.13	22.44	23.98	PASS
Band30	5MHz	16QAM	27685	25RB#0	18.91	21.22	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#0	20.09	22.40	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#12	20.40	22.71	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#24	20.05	22.36	23.98	PASS
Band30	5MHz	16QAM	27710	25RB#0	18.92	21.23	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#0	20.12	22.43	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#12	20.31	22.62	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#24	19.98	22.29	23.98	PASS
Band30	5MHz	16QAM	27735	25RB#0	18.91	21.22	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	20.99	23.30	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#24	21.03	23.34	23.98	PASS

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Band30	10MHz	QPSK	27710	1RB#49	20.85	23.16	23.98	PASS
Band30	10MHz	QPSK	27710	50RB#0	20.04	22.35	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#0	20.19	22.50	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#24	20.32	22.63	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#49	20.15	22.46	23.98	PASS
Band30	10MHz	16QAM	27710	50RB#0	19.02	21.33	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	21.63	23.94	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	21.48	23.79	23.98	PASS
Band30	5MHz	QPSK	27685	25RB#0	19.93	22.24	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	21.60	23.91	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	21.59	23.90	23.98	PASS
Band30	5MHz	QPSK	27710	25RB#0	19.96	22.27	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	21.63	23.94	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	21.59	23.90	23.98	PASS
Band30	5MHz	QPSK	27735	25RB#0	20.00	22.31	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	21.63	23.94	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#49	21.64	23.95	23.98	PASS
Band30	10MHz	QPSK	27710	50RB#0	18.31	20.62	23.98	PASS

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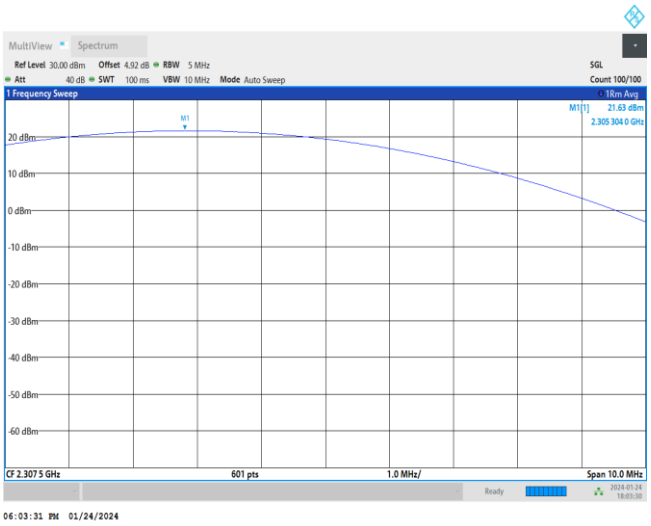
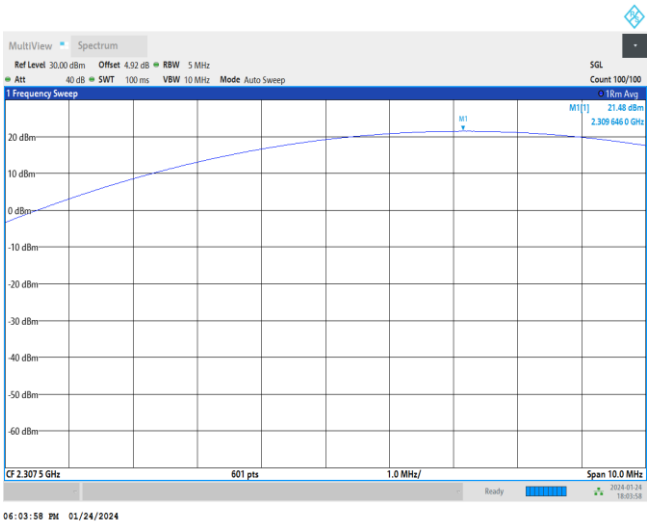
Test Graphs

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



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



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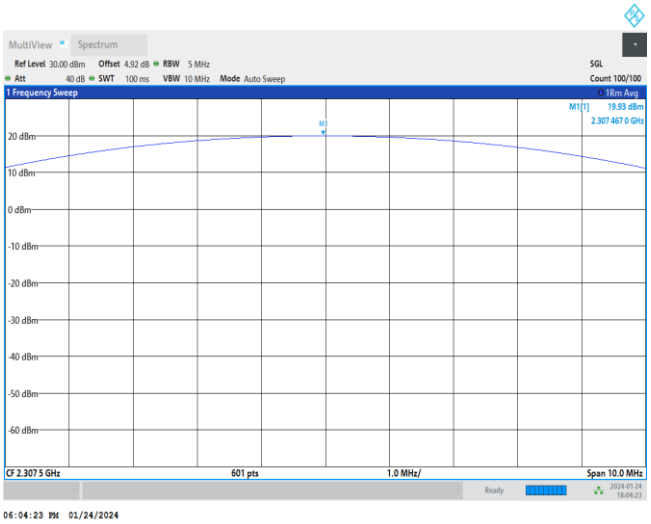

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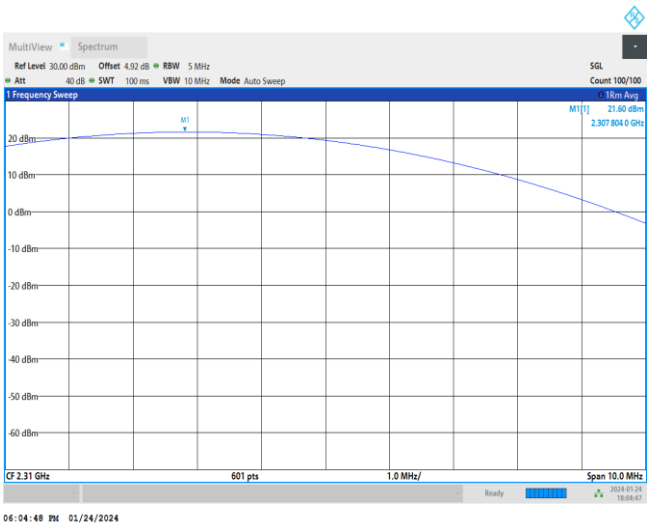

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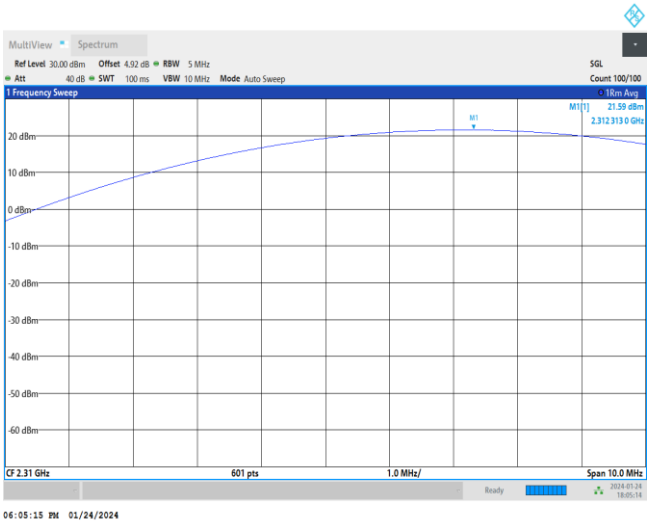
Band30-5MHz-QPSK -27710-1RB#24



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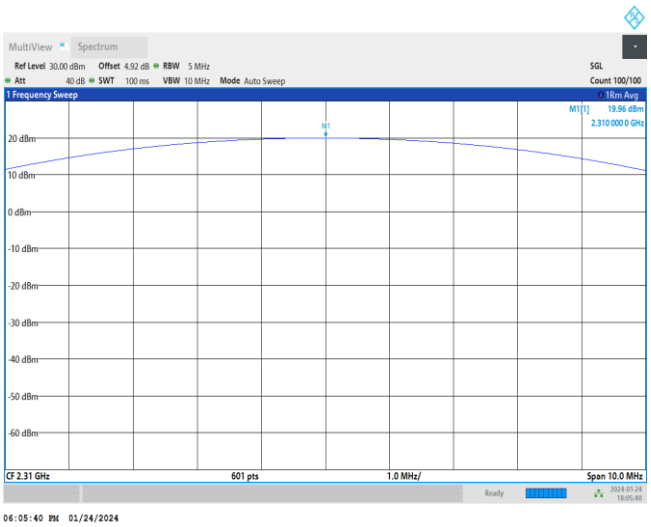

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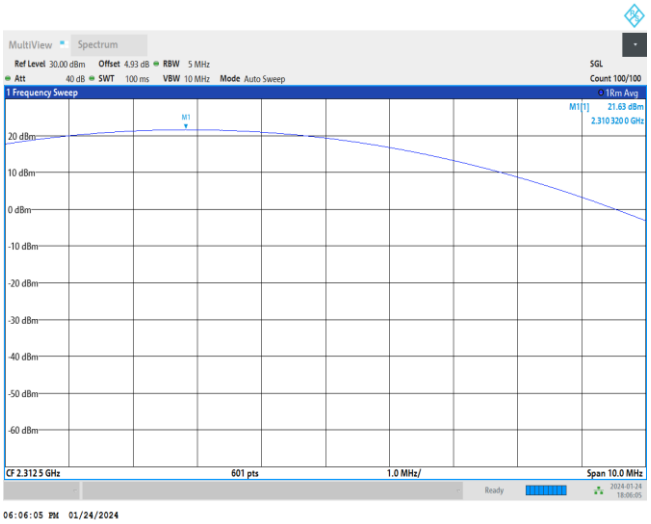
Band30-5MHz-QPSK -27735-1RB#0



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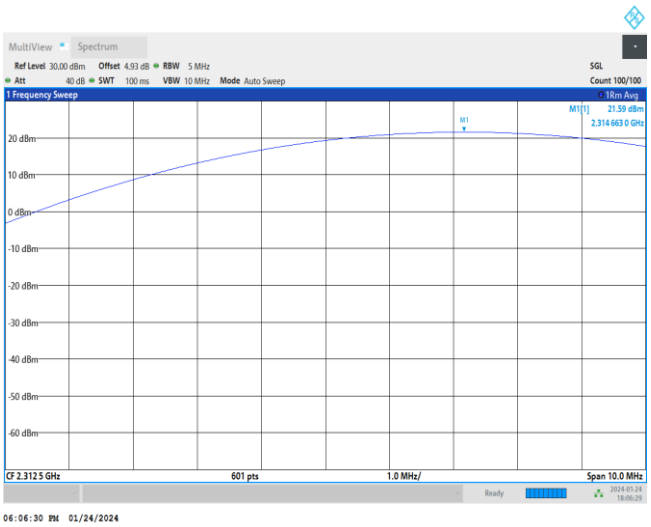

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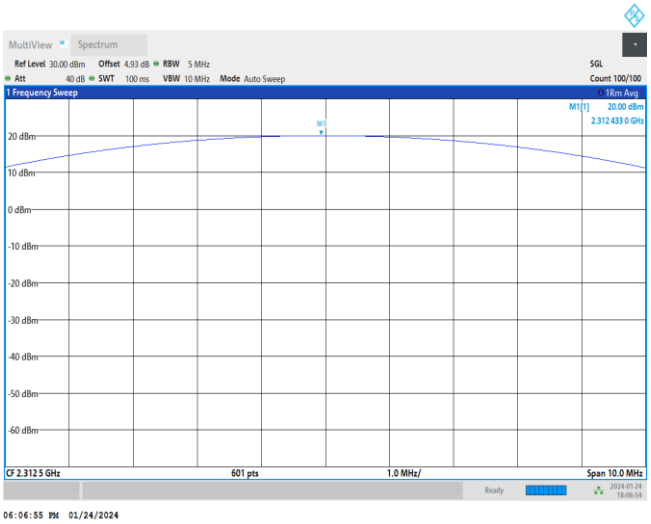
Band30-5MHz-QPSK -27735-25RB#0



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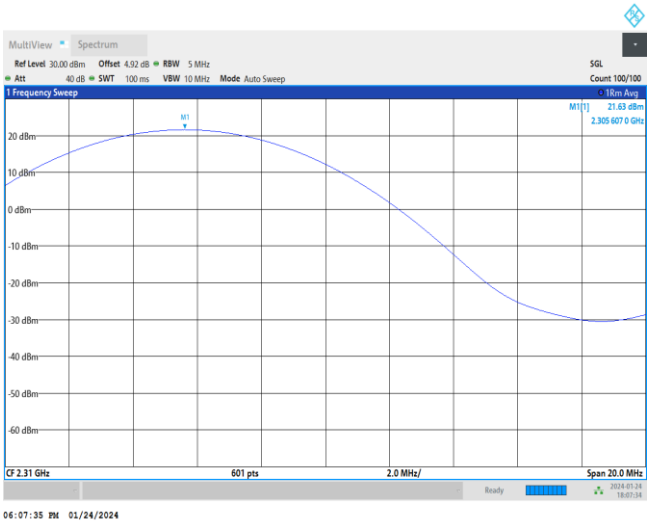

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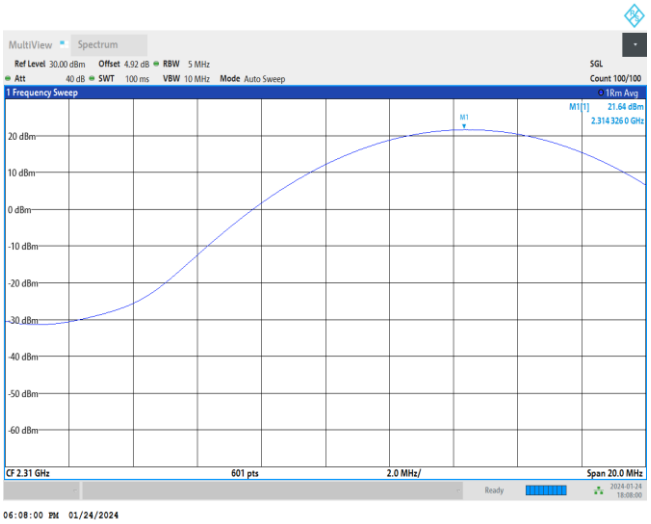

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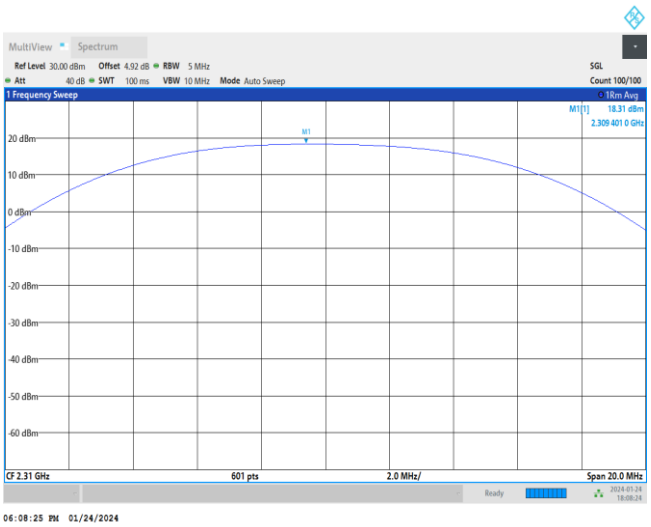

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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band30	5MHz	QPSK	27685	25RB#0	5.74	13	PASS
Band30	5MHz	QPSK	27710	25RB#0	5.58	13	PASS
Band30	5MHz	QPSK	27735	25RB#0	5.56	13	PASS
Band30	5MHz	16QAM	27685	25RB#0	6.34	13	PASS
Band30	5MHz	16QAM	27710	25RB#0	6.32	13	PASS
Band30	5MHz	16QAM	27735	25RB#0	6.24	13	PASS
Band30	10MHz	QPSK	27710	50RB#0	5.54	13	PASS
Band30	10MHz	16QAM	27710	50RB#0	6.26	13	PASS

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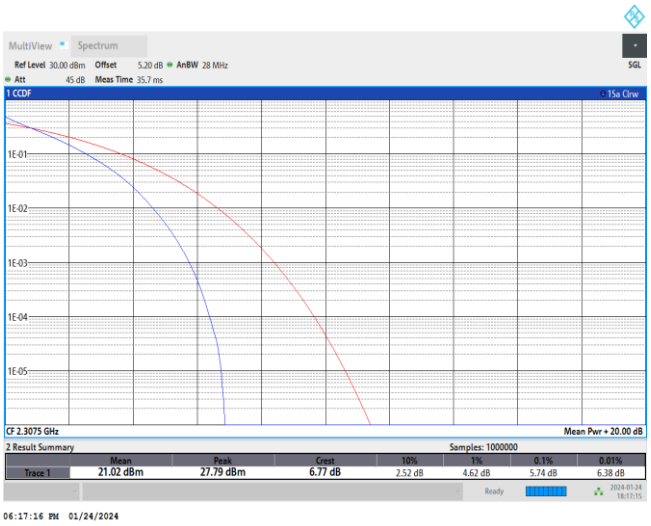
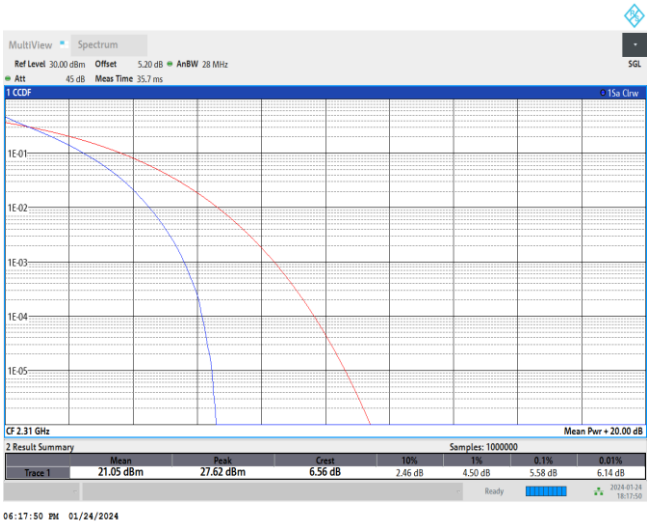
Test Graphs

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



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



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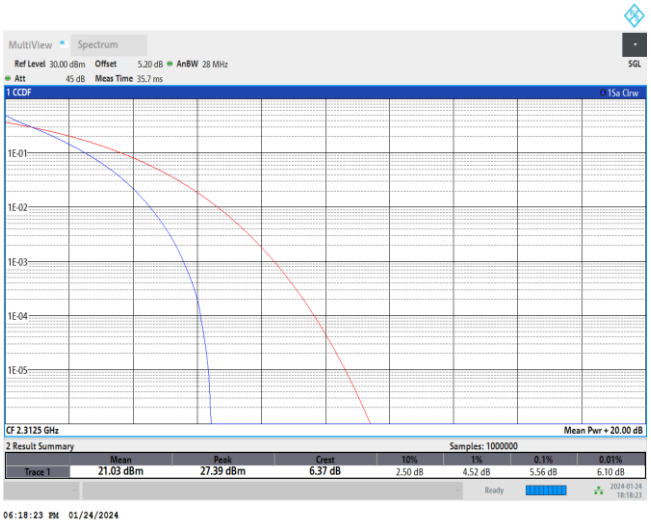
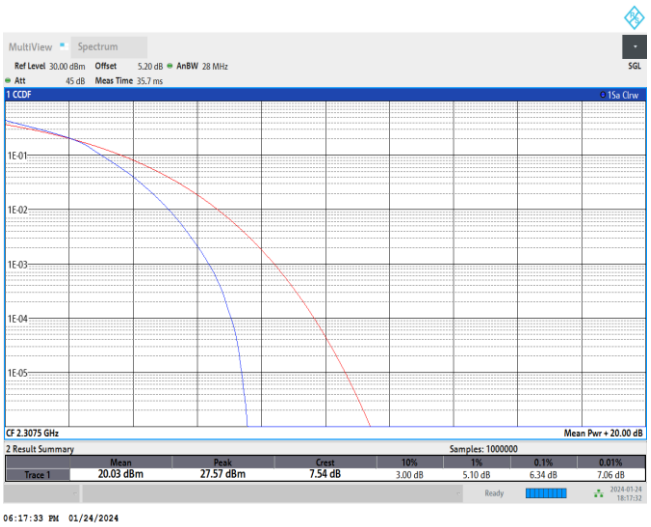
Band30-5MHz-QPSK-27735-25RB#0



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



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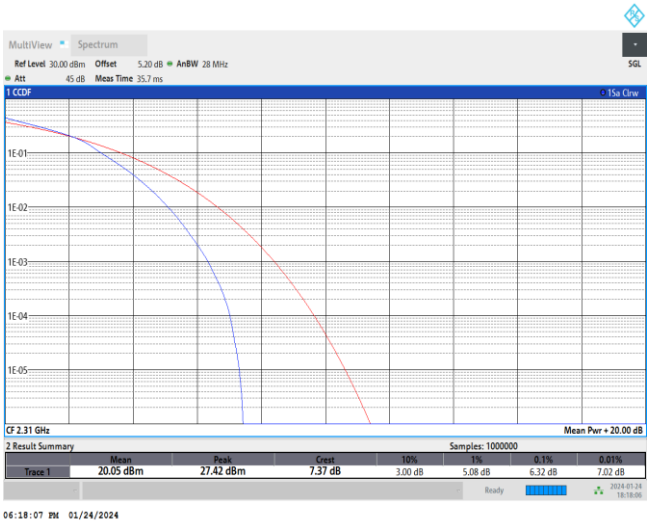
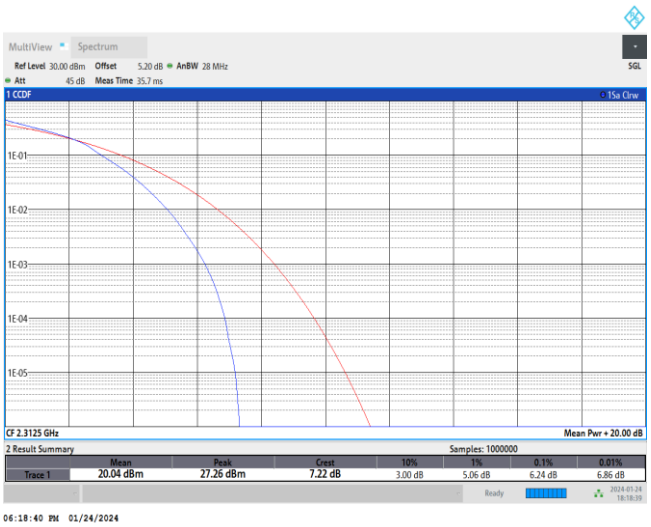
Band30-5MHz-16QAM-27710-25RB#0



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



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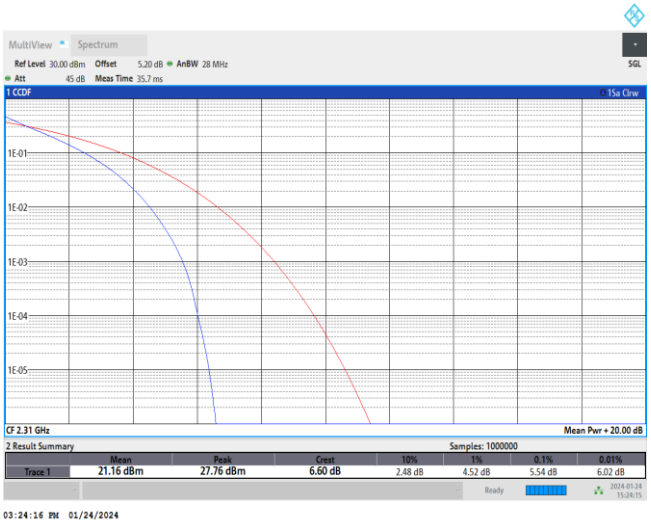
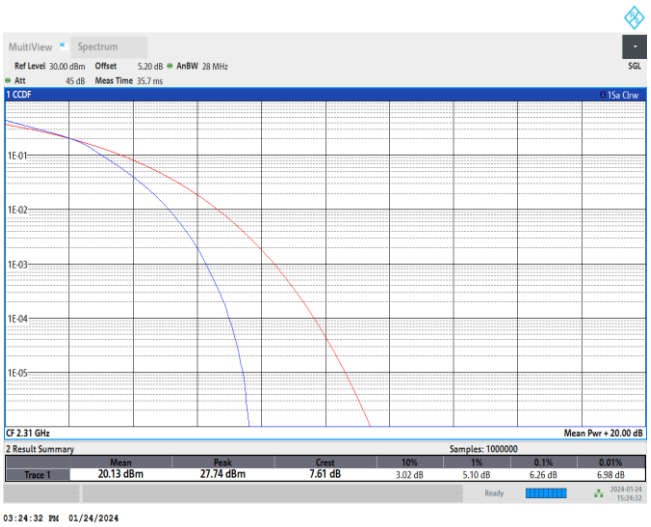
Band30-10MHz-QPSK-27710-50RB#0



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	27710	25RB#0	4.494	4.78	PASS
Band30	5MHz	16QAM	27710	25RB#0	4.49	4.77	PASS
Band30	10MHz	QPSK	27710	50RB#0	8.98	9.53	PASS
Band30	10MHz	16QAM	27710	50RB#0	8.982	9.53	PASS

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Test Graphs

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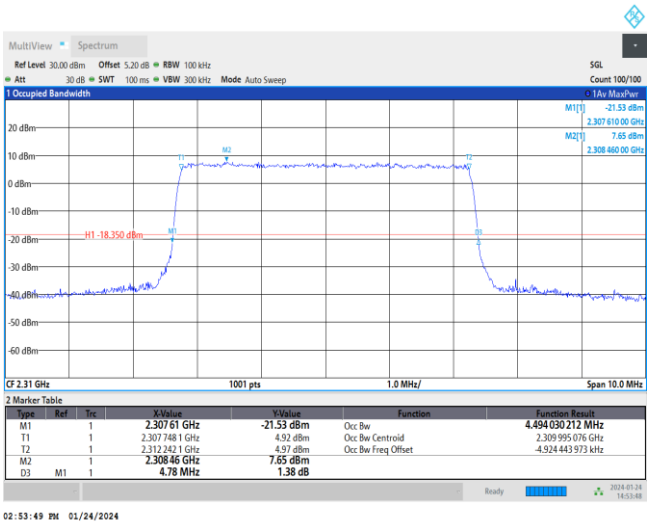
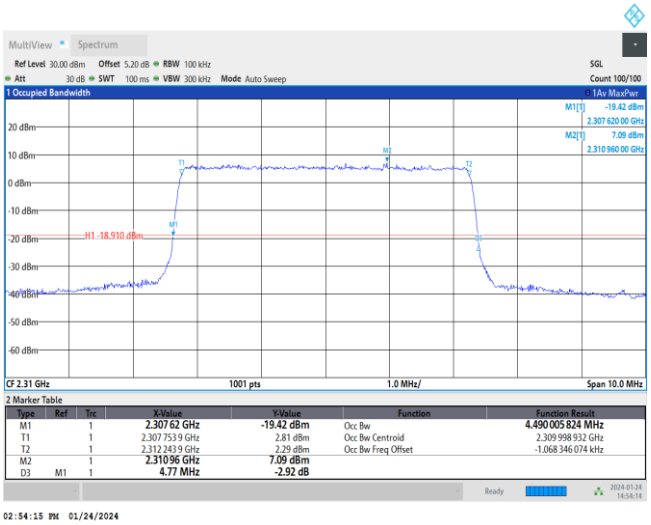


Band30-5MHz-16QAM-27710-25RB#0



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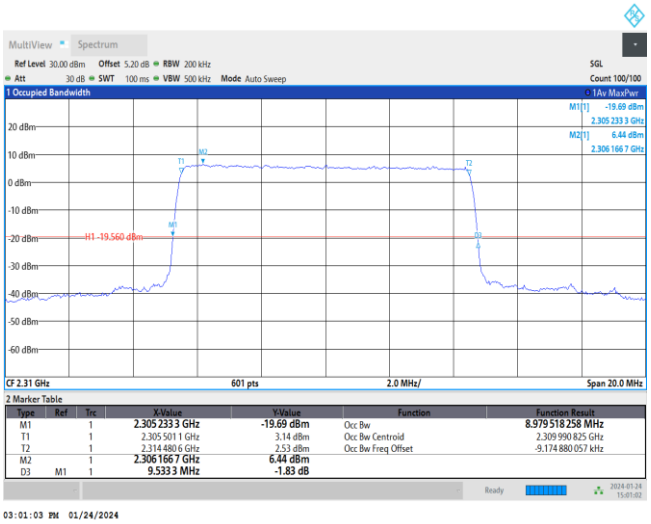
Band30-10MHz-QPSK-27710-50RB#0



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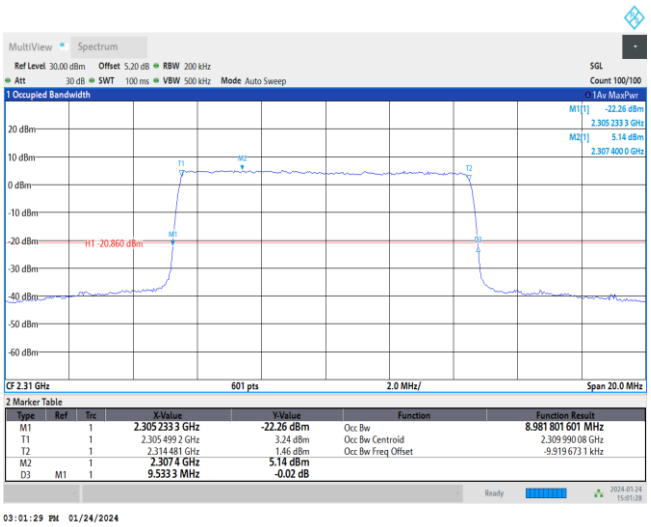

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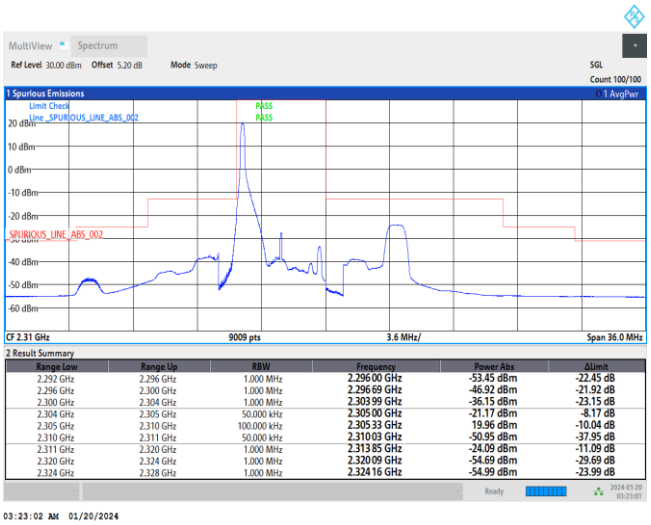
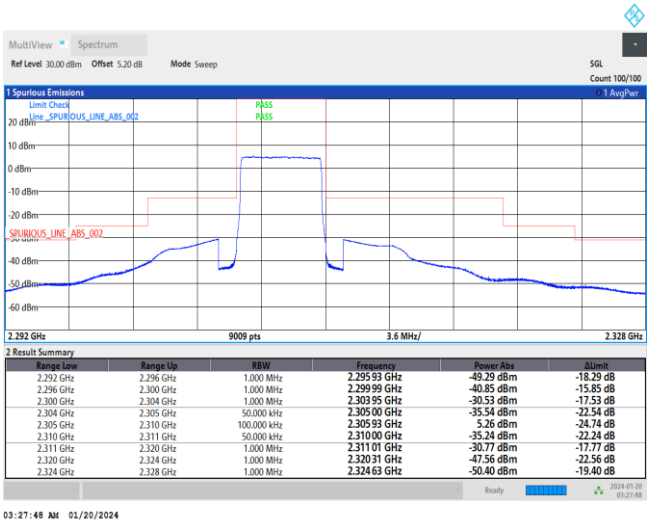
Band Edge

Test Graphs

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



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



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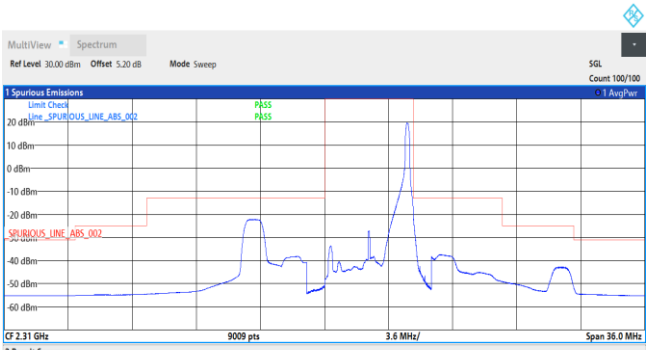
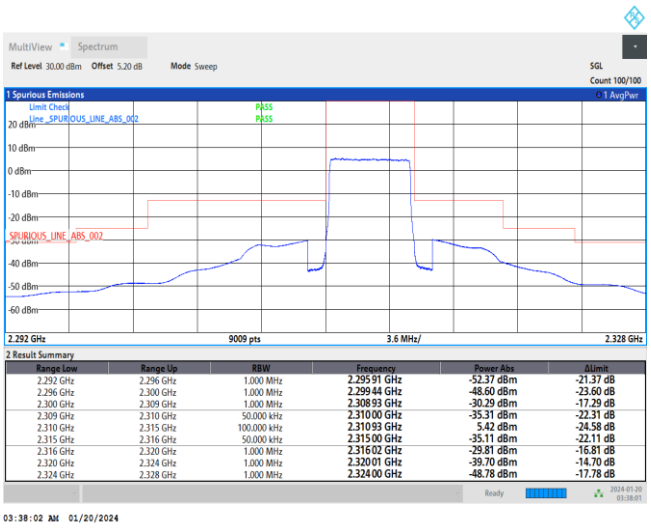
Band30-5MHz-QPSK-27735-1RB#24



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



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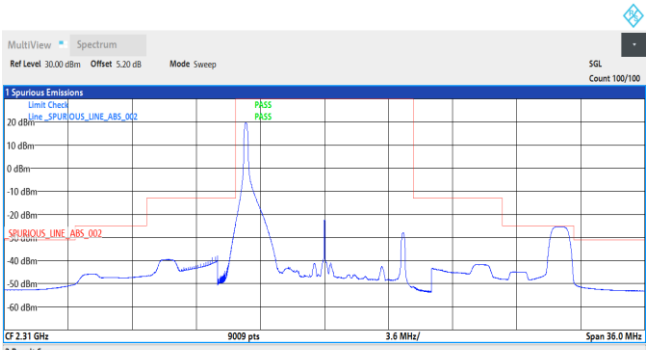
Band30-10MHz-QPSK-27710-1RB#0



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.295 99 GHz	-50.18 dBm	-19.18 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.296 93 GHz	-45.71 dBm	-20.71 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.303 99 GHz	-37.92 dBm	-24.92 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.305 00 GHz	-24.22 dBm	-11.22 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.305 57 GHz	19.61 dBm	-10.39 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.315 02 GHz	-51.22 dBm	-38.22 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.318 85 GHz	-41.76 dBm	-28.76 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.323 12 GHz	-25.49 dBm	-0.49 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.324 00 GHz	-48.72 dBm	-17.72 dB

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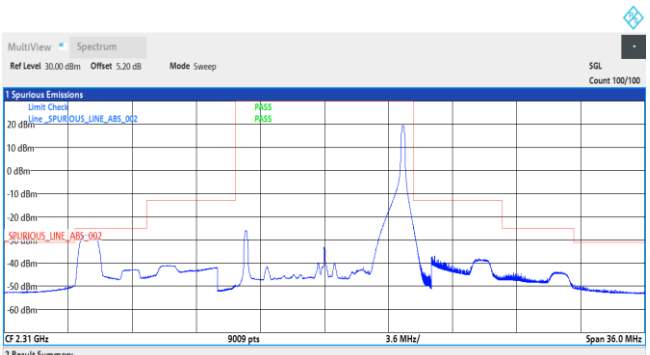
Band30-10MHz-QPSK-27710-1RB#49



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.295 99 GHz	-48.88 dBm	-17.88 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.296 84 GHz	-27.90 dBm	-2.90 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.301 13 GHz	-41.05 dBm	-28.05 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.304 97 GHz	-49.70 dBm	-36.70 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.314 40 GHz	19.67 dBm	-10.33 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.315 00 GHz	-24.51 dBm	-11.51 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.316 21 GHz	-37.03 dBm	-24.03 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.323 28 GHz	-43.69 dBm	-18.69 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.324 08 GHz	-49.48 dBm	-18.48 dB

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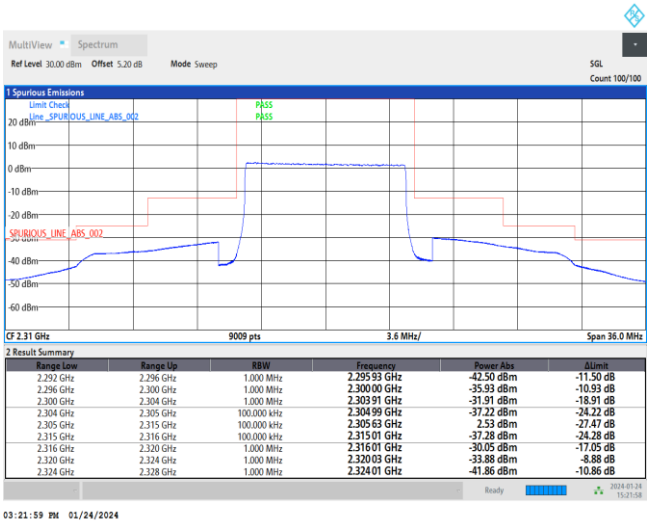
Band30-10MHz-QPSK-27710-50RB#0



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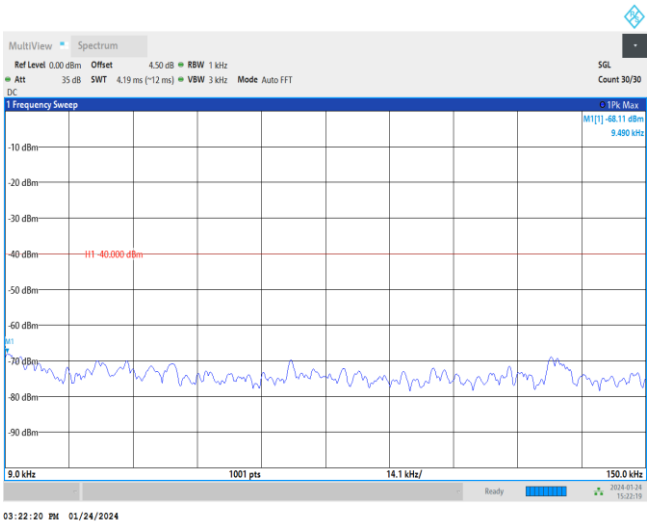
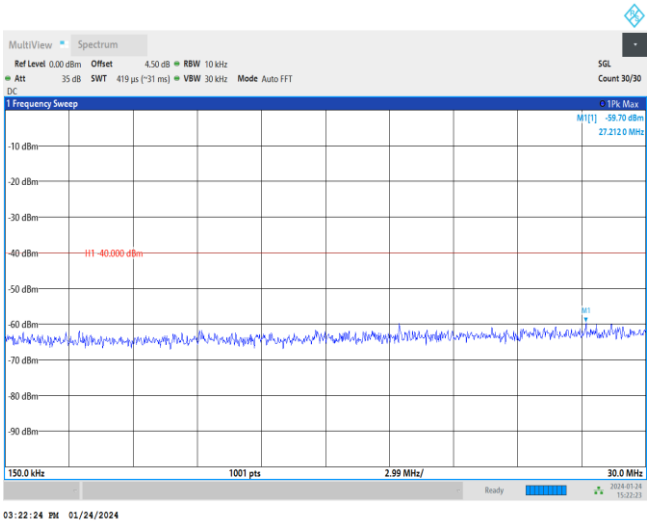
Conducted Spurious Emission

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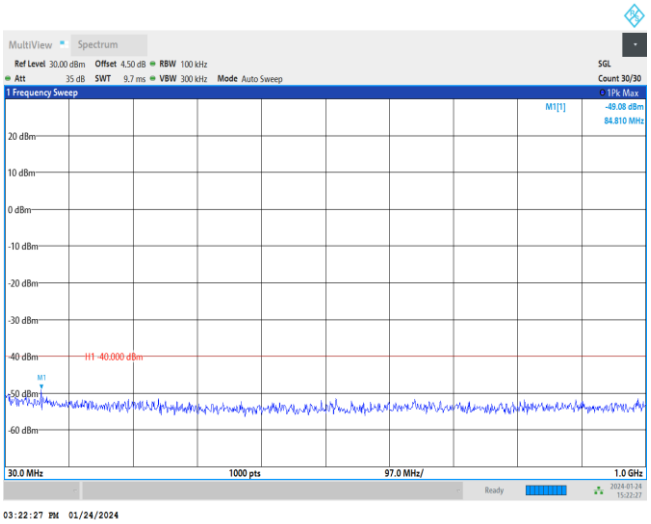
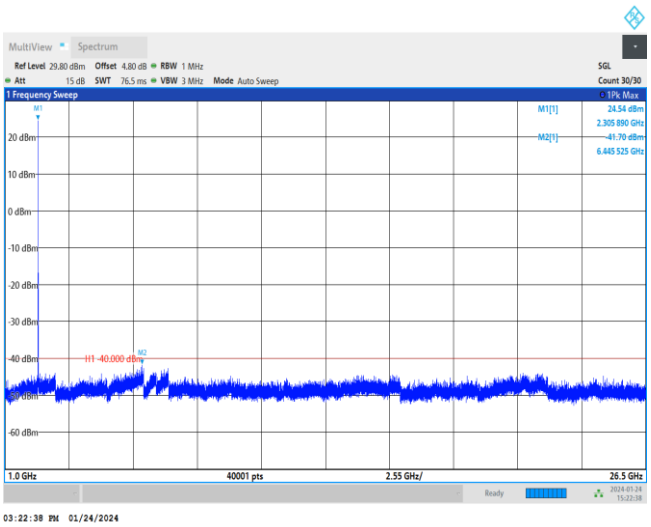
Band30-10MHz-QPSK-27710-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE_30 _TM1
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1441.5	27.93	-19.71	25.23	-61.81	-40.00	21.81	Horizontal
2	4611	52.03	-43.16	30.12	-56.27	-40.00	16.27	Horizontal
3	5524.5	51.30	-41.75	32.30	-53.41	-40.00	13.41	Horizontal
4	8278.5	43.73	-37.02	36.44	-52.11	-40.00	12.11	Horizontal
5	11037.5	43.65	-37.21	40.14	-48.68	-40.00	8.68	Horizontal
6	16390.5	42.02	-34.87	38.77	-49.34	-40.00	9.34	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1445	27.85	-19.68	25.26	-61.83	-40.00	21.83	Vertical
2	4611.5	49.51	-43.16	30.12	-58.79	-40.00	18.79	Vertical
3	5524.5	50.87	-41.75	32.30	-53.84	-40.00	13.84	Vertical
4	7922.5	43.95	-37.43	36.46	-52.28	-40.00	12.28	Vertical
5	9905	42.74	-35.09	38.61	-49.00	-40.00	9.00	Vertical
6	16354	42.86	-35.07	38.66	-48.81	-40.00	8.81	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

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band30	10MHz	QPSK	27710	50RB#0	VL	NT	5.10	0.002208	PASS
Band30	10MHz	QPSK	27710	50RB#0	VN	NT	-6.80	-0.002944	PASS
Band30	10MHz	QPSK	27710	50RB#0	VH	NT	-5.30	-0.002294	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band30	10MHz	QPSK	27710	50RB#0	NV	-30	-1.40	-0.000606	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	-20	3.30	0.001429	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	-10	-0.60	-0.000263	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	0	-0.80	-0.000346	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	10	-3.90	-0.001688	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	20	-12.90	-0.005584	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	30	-0.40	-0.000135	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	40	-3.20	-0.002136	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	50	-12.10	-0.005686	PASS

---End of Attachment---

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