Appendix-A LTE Band 13

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	23.25	20.4	44.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.48	20.63	44.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.37	20.52	44.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.37	19.52	44.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.36	19.51	44.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.26	19.41	44.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.5	19.65	44.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.24	18.39	44.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.41	20.56	44.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.56	20.71	44.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.37	20.52	44.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.48	19.63	44.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.45	19.6	44.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.45	19.6	44.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.45	19.6	44.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.51	18.66	44.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.47	20.62	44.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.54	20.69	44.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.4	20.55	44.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.48	19.63	44.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.45	19.6	44.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.25	19.4	44.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.54	19.69	44.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.3	18.45	44.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.17	20.32	44.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.49	20.64	44.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.52	20.67	44.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.47	19.62	44.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.56	19.71	44.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.48	19.63	44.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.55	19.7	44.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.44	18.59	44.77	PASS

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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	5.71	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.48	13	PASS

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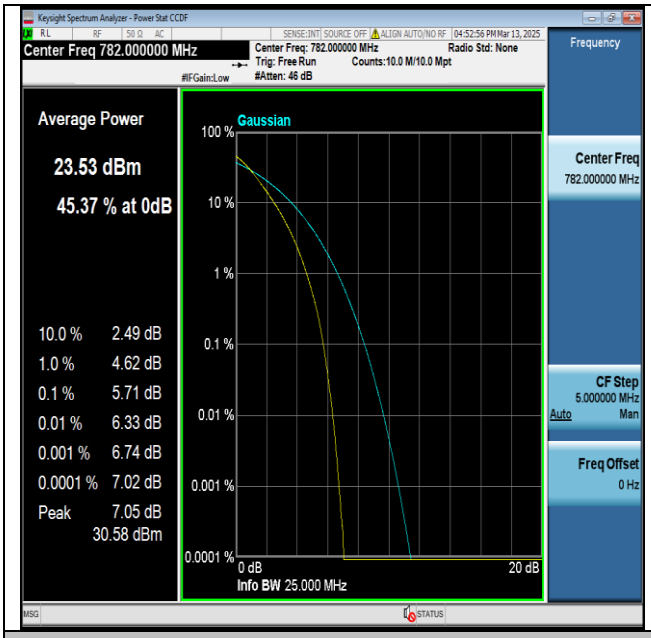
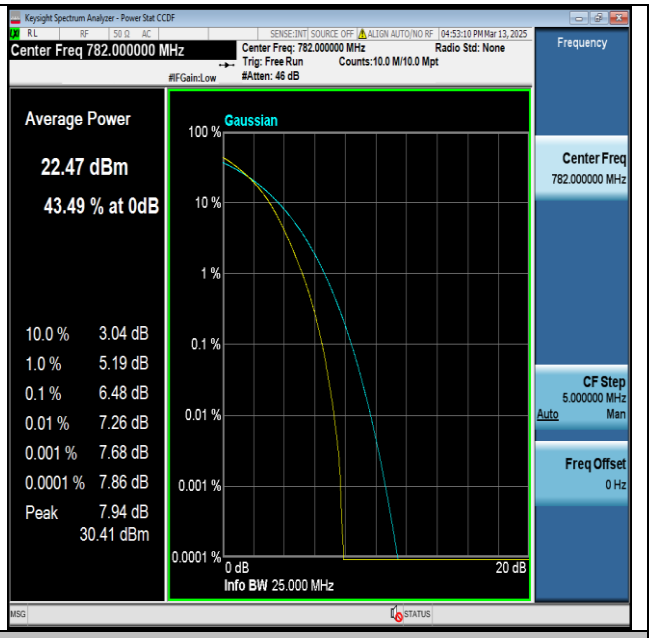
Test Graphs



Band13-10MHz-QPSK-23230-50RB#0-PASS



Band13-10MHz-16QAM-23230-50RB#0-PASS

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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.4707	4.951	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.4738	4.947	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.4807	4.983	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.4901	4.970	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.4870	5.000	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.4877	5.001	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.9376	9.667	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.9247	9.769	PASS

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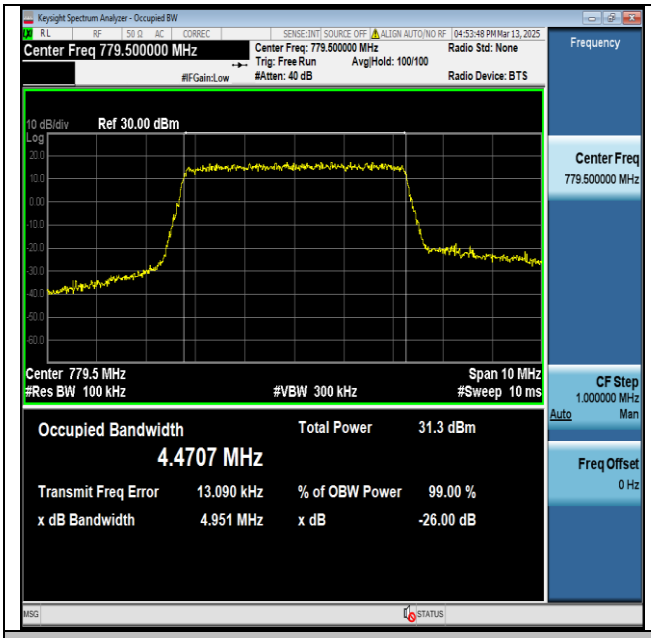
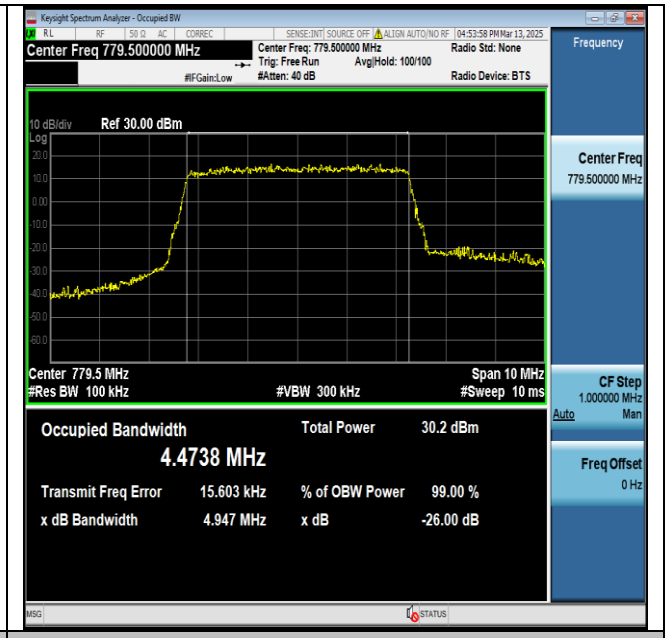
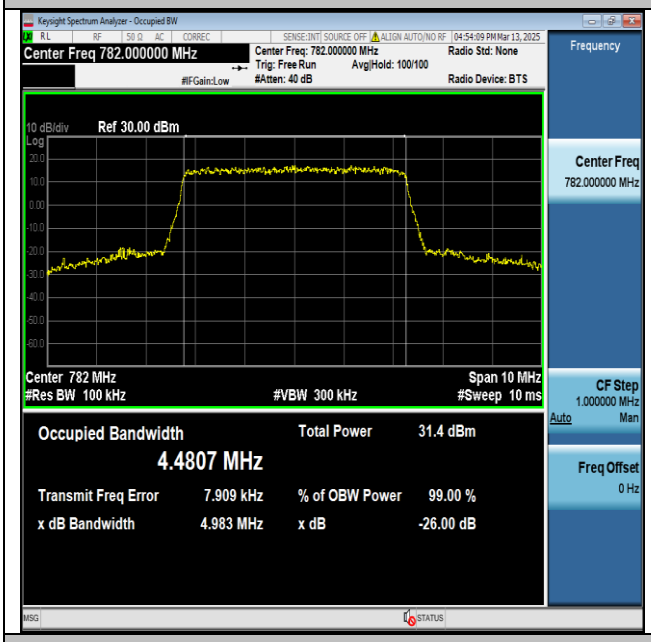
Test Graphs



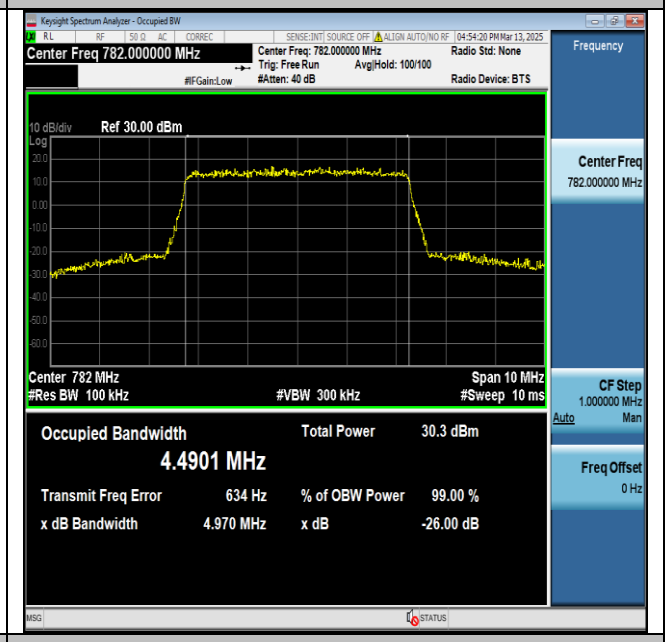
Band13-5MHz-QPSK-23205-25RB#0-PASS



Band13-5MHz-16QAM-23205-25RB#0-PASS



Band13-5MHz-QPSK-23230-25RB#0-PASS



Band13-5MHz-16QAM-23230-25RB#0-PASS

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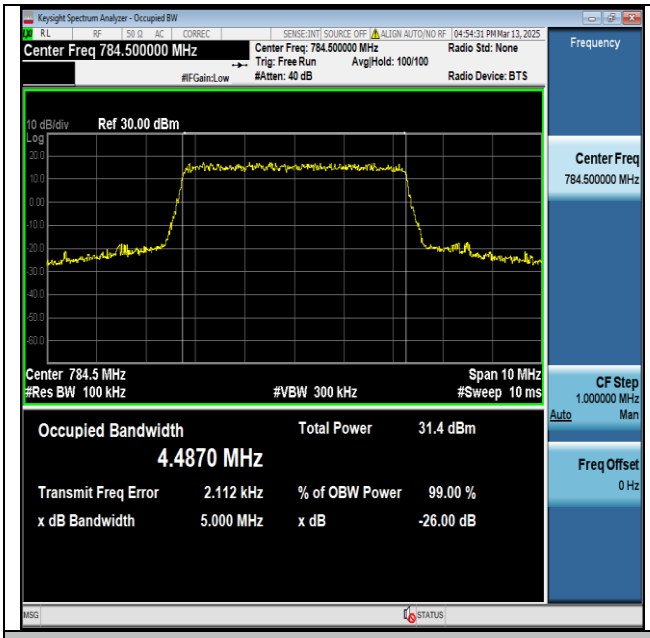
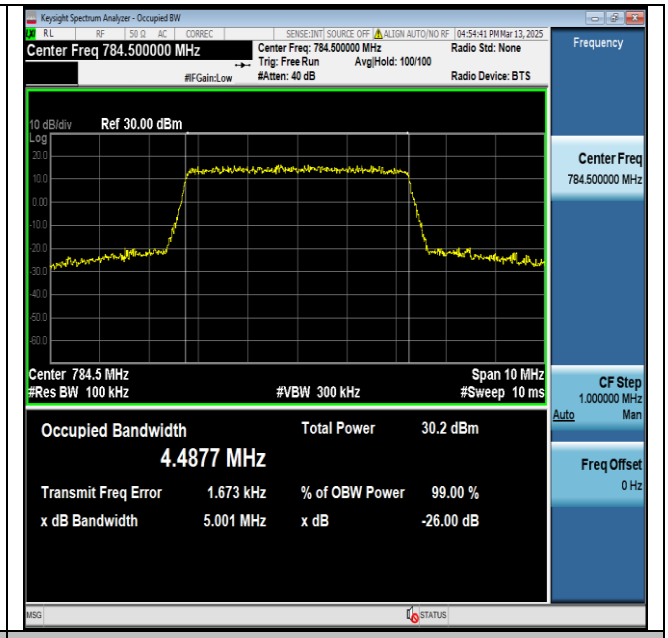
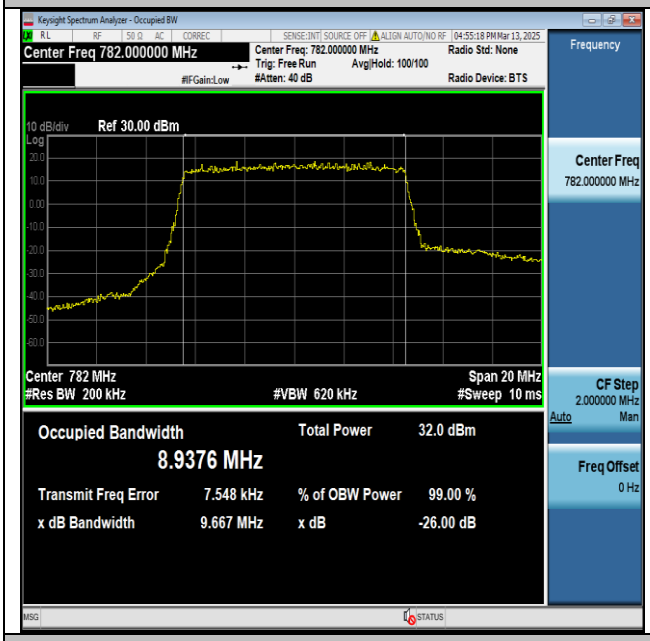


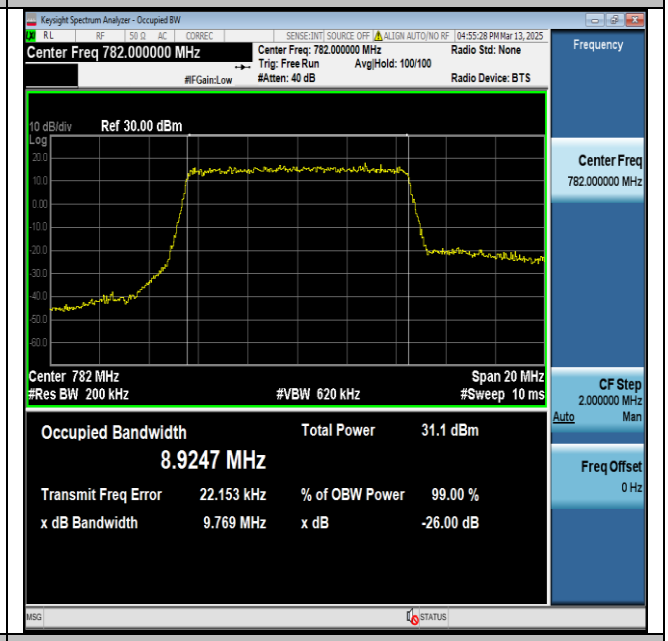
Band13-5MHz-QPSK-23255-25RB#0-PASS



Band13-5MHz-16QAM-23255-25RB#0-PASS



Band13-10MHz-QPSK-23230-50RB#0-PASS



Band13-10MHz-16QAM-23230-50RB#0-PASS

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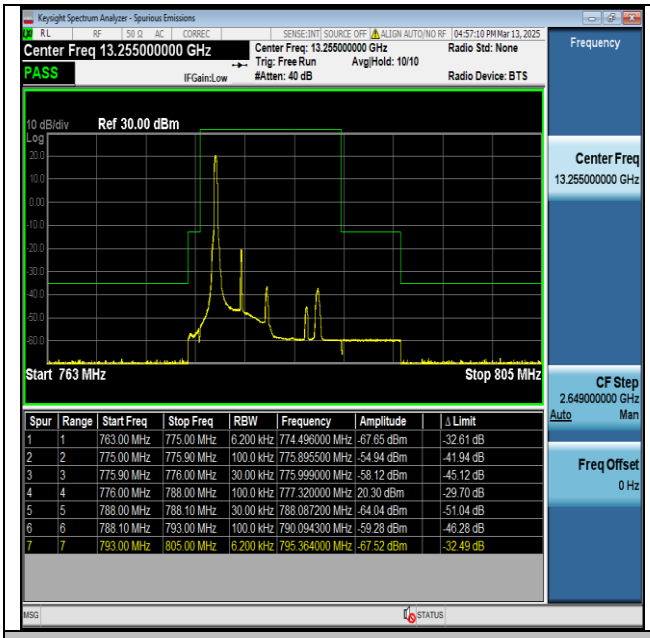
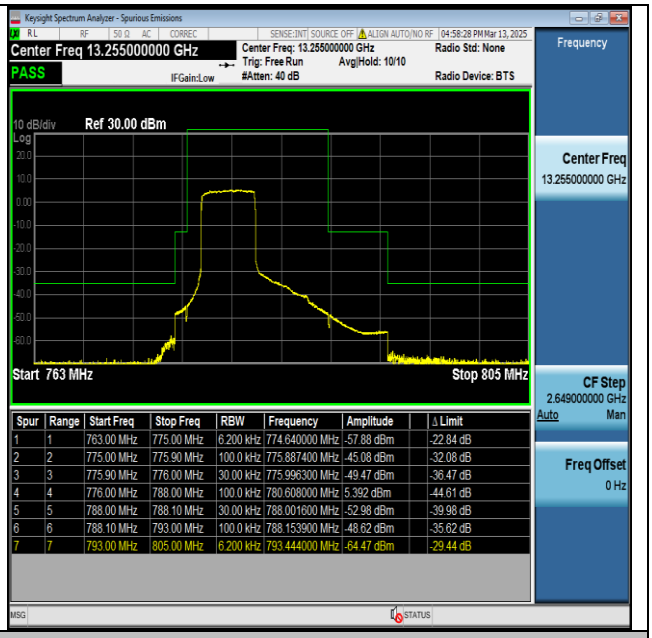
Band Edge

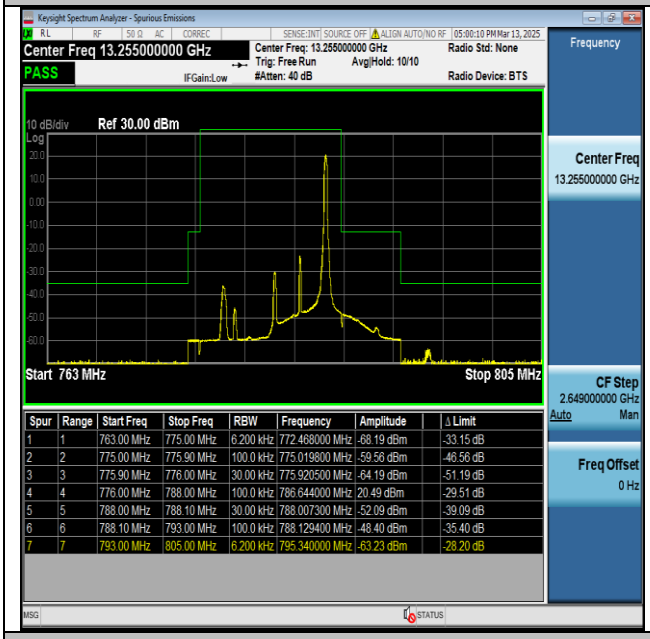
Test Graphs



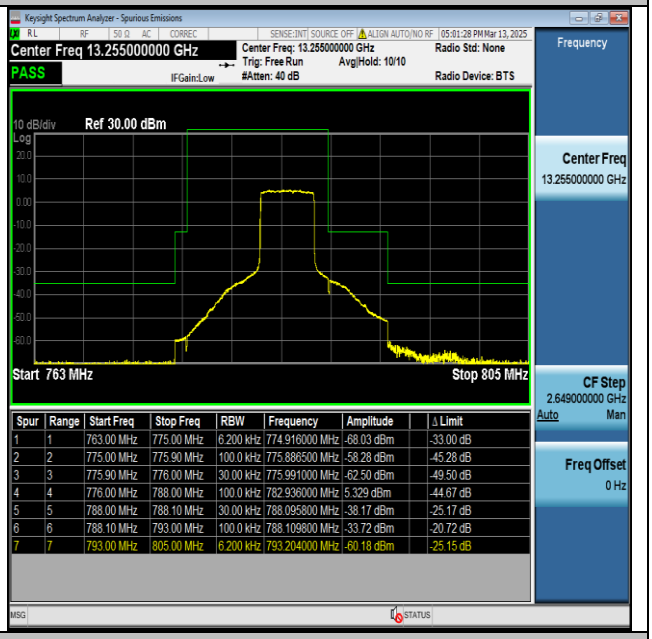
Band13-5MHz-QPSK-23205-1RB#0-PASS



Band13-5MHz-QPSK-23205-25RB#0-PASS



Band13-5MHz-QPSK-23255-1RB#24-PASS



Band13-5MHz-QPSK-23255-25RB#0-PASS

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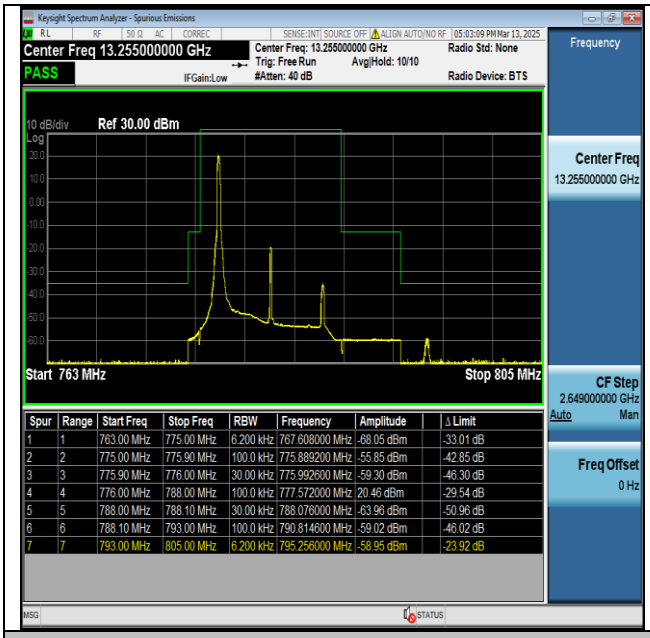
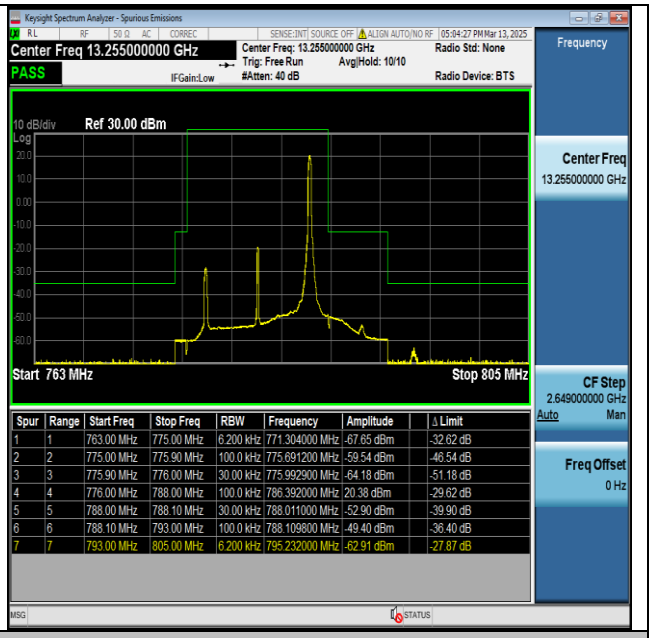
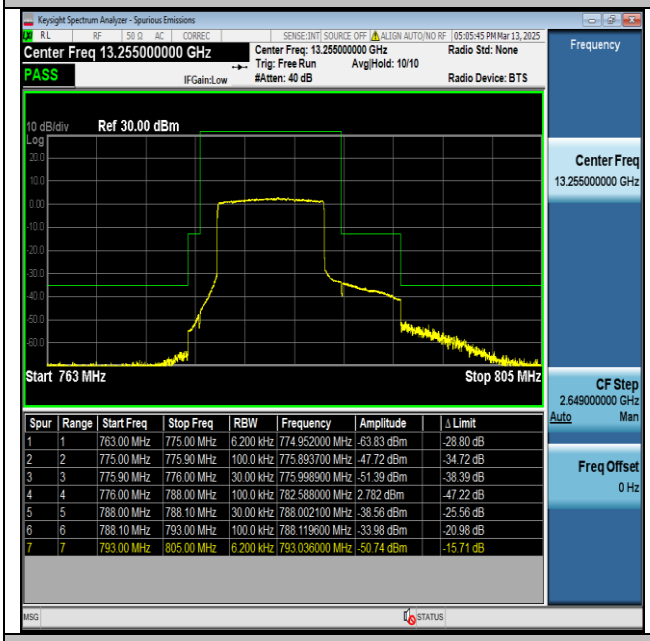


Band13-10MHz-QPSK-23230-1RB#0-PASS



Band13-10MHz-QPSK-23230-1RB#49-PASS



Band13-10MHz-QPSK-23230-50RB#0-PASS

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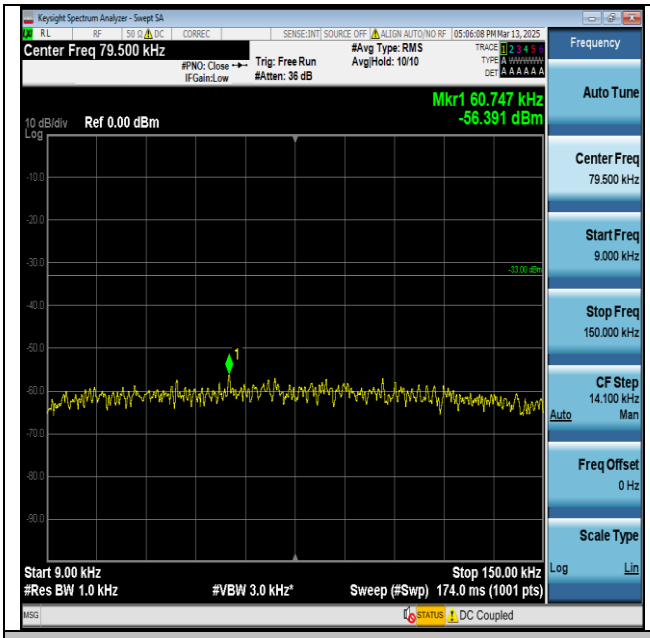
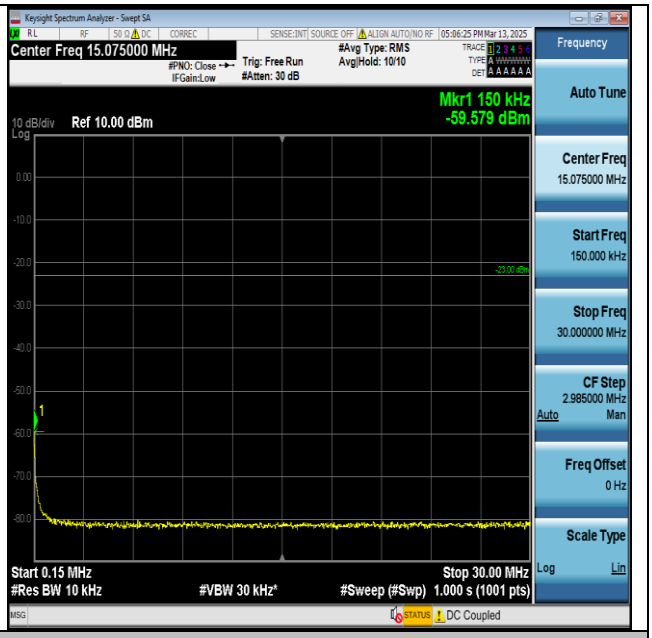
Conducted Spurious Emission

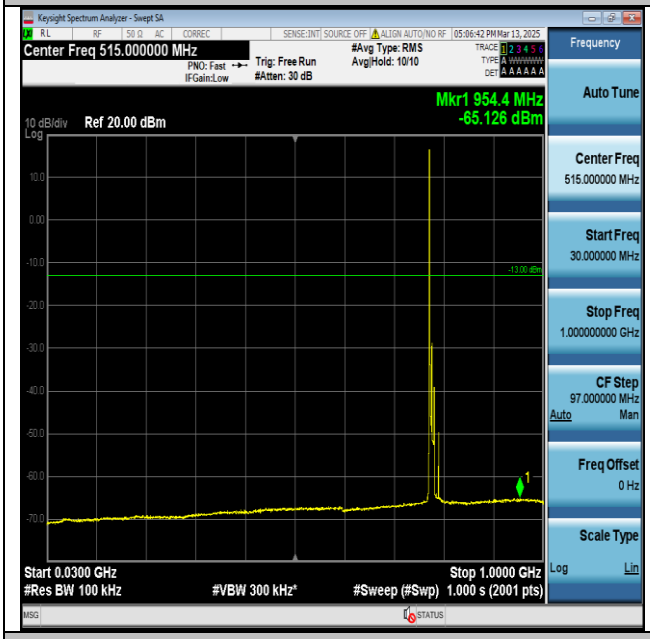
Test Graphs



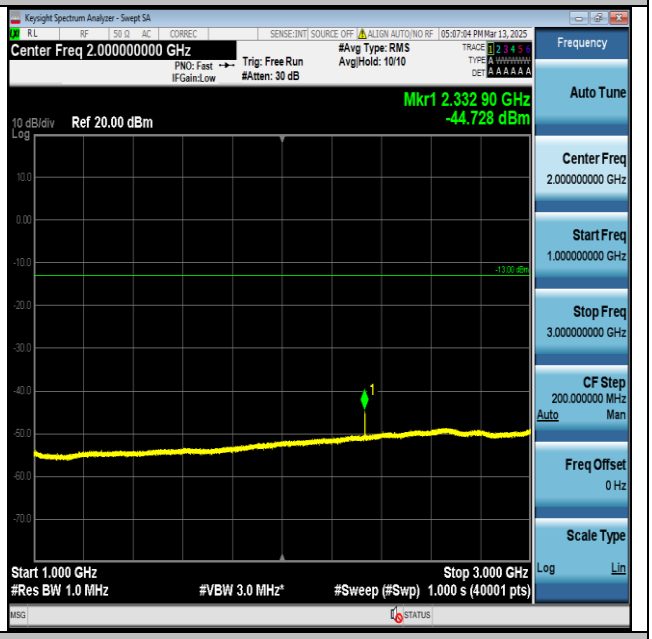
Band13-10MHz-QPSK-23230-1RB#0-0.009~0.15-PASS



Band13-10MHz-QPSK-23230-1RB#0-0.15~30-PASS



Band13-10MHz-QPSK-23230-1RB#0-30~1000-PASS



Band13-10MHz-QPSK-23230-1RB#0-1000~3000-PASS

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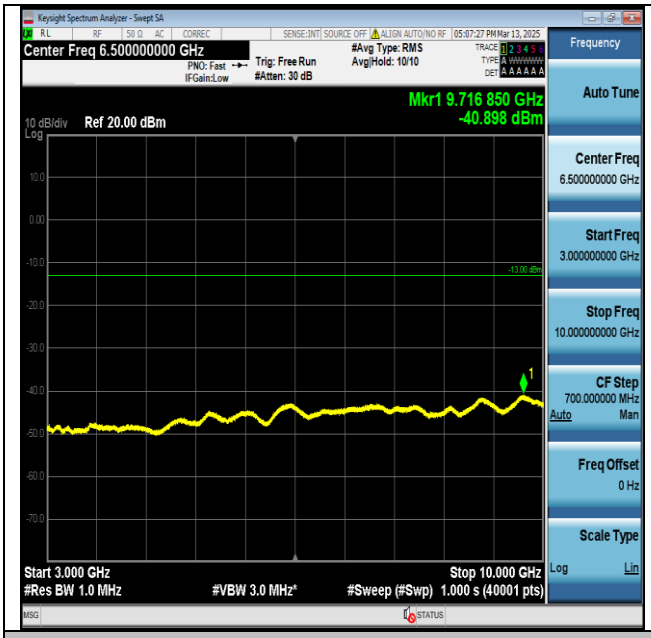

Band13-10MHz-QPSK-23230-1RB#0-3000~10000-PASS

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Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	100RB#0	VN	NT	1.20	0.001535	PASS
Band13	10MHz	QPSK	23230	100RB#0	VL	NT	0.90	0.001151	PASS
Band13	10MHz	QPSK	23230	100RB#0	VH	NT	1.10	0.001407	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	100RB#0	NV	-30	-1.40	-0.001790	PASS
Band13	10MHz	QPSK	23230	100RB#0	NV	-20	-1.00	-0.001279	PASS
Band13	10MHz	QPSK	23230	100RB#0	NV	-10	0.70	0.000895	PASS
Band13	10MHz	QPSK	23230	100RB#0	NV	0	-0.40	-0.000512	PASS
Band13	10MHz	QPSK	23230	100RB#0	NV	10	2.70	0.003453	PASS
Band13	10MHz	QPSK	23230	100RB#0	NV	20	-1.60	-0.002046	PASS
Band13	10MHz	QPSK	23230	100RB#0	NV	30	0.00	0.000000	PASS
Band13	10MHz	QPSK	23230	100RB#0	NV	40	0.00	0.000000	PASS
Band13	10MHz	QPSK	23230	100RB#0	NV	50	-0.60	-0.000767	PASS

~The End~

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