

Appendix A Conduction Data for LTE

1.Transmitter Conducted Output Power And ERP/EIRP

Test Result

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)	ERP/EIRP(Limit) (dBm)	Verdict
40	5.0	38725	2307.5	QPSK	1@0	18.43	17.8	0.0602	24.00	PASS
40	5.0	38725	2307.5	QPSK	1@12	18.57	17.94	0.0623	24.00	PASS
40	5.0	38725	2307.5	QPSK	1@24	18.35	17.72	0.0592	24.00	PASS
40	5.0	38725	2307.5	QPSK	12@0	17.44	16.81	0.048	24.00	PASS
40	5.0	38725	2307.5	QPSK	12@6	17.4	16.77	0.0475	24.00	PASS
40	5.0	38725	2307.5	QPSK	12@11	17.43	16.8	0.0478	24.00	PASS
40	5.0	38725	2307.5	QPSK	25@0	17.48	16.85	0.0484	24.00	PASS
40	5.0	38725	2307.5	16QAM	1@0	17.46	16.83	0.0482	24.00	PASS
40	5.0	38725	2307.5	16QAM	1@12	17.55	16.92	0.0492	24.00	PASS
40	5.0	38725	2307.5	16QAM	1@24	17.49	16.86	0.0485	24.00	PASS
40	5.0	38725	2307.5	16QAM	12@0	16.36	15.73	0.0374	24.00	PASS
40	5.0	38725	2307.5	16QAM	12@6	16.37	15.74	0.0375	24.00	PASS
40	5.0	38725	2307.5	16QAM	12@11	16.32	15.69	0.0371	24.00	PASS
40	5.0	38725	2307.5	16QAM	25@0	16.31	15.68	0.037	24.00	PASS
40	5.0	38750	2310.0	QPSK	1@0	18.3	17.67	0.0585	24.00	PASS
40	5.0	38750	2310.0	QPSK	1@12	18.38	17.75	0.0596	24.00	PASS
40	5.0	38750	2310.0	QPSK	1@24	18.22	17.59	0.0574	24.00	PASS
40	5.0	38750	2310.0	QPSK	12@0	17.3	16.67	0.0465	24.00	PASS
40	5.0	38750	2310.0	QPSK	12@6	17.32	16.69	0.0467	24.00	PASS
40	5.0	38750	2310.0	QPSK	12@11	17.32	16.69	0.0466	24.00	PASS
40	5.0	38750	2310.0	QPSK	25@0	17.35	16.72	0.047	24.00	PASS
40	5.0	38750	2310.0	16QAM	1@0	17.34	16.71	0.0469	24.00	PASS
40	5.0	38750	2310.0	16QAM	1@12	17.39	16.76	0.0474	24.00	PASS
40	5.0	38750	2310.0	16QAM	1@24	17.26	16.63	0.046	24.00	PASS
40	5.0	38750	2310.0	16QAM	12@0	16.37	15.74	0.0375	24.00	PASS
40	5.0	38750	2310.0	16QAM	12@6	16.36	15.73	0.0374	24.00	PASS
40	5.0	38750	2310.0	16QAM	12@11	16.34	15.71	0.0372	24.00	PASS
40	5.0	38750	2310.0	16QAM	25@0	16.34	15.71	0.0373	24.00	PASS
40	5.0	38775	2312.5	QPSK	1@0	18.18	17.55	0.0569	24.00	PASS
40	5.0	38775	2312.5	QPSK	1@12	18.23	17.6	0.0575	24.00	PASS
40	5.0	38775	2312.5	QPSK	1@24	18.19	17.56	0.057	24.00	PASS
40	5.0	38775	2312.5	QPSK	12@0	17.36	16.73	0.0471	24.00	PASS
40	5.0	38775	2312.5	QPSK	12@6	17.38	16.75	0.0473	24.00	PASS
40	5.0	38775	2312.5	QPSK	12@11	17.33	16.7	0.0468	24.00	PASS
40	5.0	38775	2312.5	QPSK	25@0	17.28	16.65	0.0462	24.00	PASS
40	5.0	38775	2312.5	16QAM	1@0	17.53	16.9	0.049	24.00	PASS
40	5.0	38775	2312.5	16QAM	1@12	17.59	16.96	0.0497	24.00	PASS
40	5.0	38775	2312.5	16QAM	1@24	17.5	16.87	0.0486	24.00	PASS
40	5.0	38775	2312.5	16QAM	12@0	16.34	15.71	0.0373	24.00	PASS
40	5.0	38775	2312.5	16QAM	12@6	16.25	15.62	0.0365	24.00	PASS
40	5.0	38775	2312.5	16QAM	12@11	16.29	15.66	0.0368	24.00	PASS
40	5.0	38775	2312.5	16QAM	25@0	16.26	15.63	0.0365	24.00	PASS
40	10.0	38750	2310.0	QPSK	1@0	18.37	17.74	0.0594	24.00	PASS
40	10.0	38750	2310.0	QPSK	1@24	18.5	17.87	0.0612	24.00	PASS
40	10.0	38750	2310.0	QPSK	1@49	18.1	17.47	0.0559	24.00	PASS
40	10.0	38750	2310.0	QPSK	25@0	17.41	16.78	0.0477	24.00	PASS
40	10.0	38750	2310.0	QPSK	25@12	17.55	16.92	0.0492	24.00	PASS
40	10.0	38750	2310.0	QPSK	25@24	17.43	16.8	0.0478	24.00	PASS
40	10.0	38750	2310.0	QPSK	50@0	17.36	16.73	0.0471	24.00	PASS
40	10.0	38750	2310.0	16QAM	1@0	17.29	16.66	0.0464	24.00	PASS
40	10.0	38750	2310.0	16QAM	1@24	17.36	16.73	0.0471	24.00	PASS
40	10.0	38750	2310.0	16QAM	1@49	16.98	16.35	0.0431	24.00	PASS
40	10.0	38750	2310.0	16QAM	25@0	16.36	15.73	0.0374	24.00	PASS
40	10.0	38750	2310.0	16QAM	25@12	16.37	15.74	0.0375	24.00	PASS
40	10.0	38750	2310.0	16QAM	25@24	16.43	15.8	0.038	24.00	PASS
40	10.0	38750	2310.0	16QAM	50@0	16.37	15.74	0.0375	24.00	PASS
40	10.0	38750	2310.0	QPSK	1@0	18.44	17.81	0.0604	24.00	PASS
40	10.0	38750	2310.0	QPSK	1@24	18.46	17.83	0.0606	24.00	PASS
40	10.0	38750	2310.0	QPSK	1@49	18.05	17.42	0.0552	24.00	PASS
40	10.0	38750	2310.0	QPSK	25@0	17.49	16.86	0.0485	24.00	PASS
40	10.0	38750	2310.0	QPSK	25@12	17.41	16.78	0.0476	24.00	PASS
40	10.0	38750	2310.0	QPSK	25@24	17.44	16.81	0.048	24.00	PASS
40	10.0	38750	2310.0	QPSK	50@0	17.37	16.74	0.0472	24.00	PASS
40	10.0	38750	2310.0	16QAM	1@0	17.32	16.69	0.0466	24.00	PASS
40	10.0	38750	2310.0	16QAM	1@24	17.37	16.74	0.0472	24.00	PASS
40	10.0	38750	2310.0	16QAM	1@49	17.2	16.57	0.0454	24.00	PASS
40	10.0	38750	2310.0	16QAM	25@0	16.42	15.79	0.0379	24.00	PASS
40	10.0	38750	2310.0	16QAM	25@12	16.42	15.79	0.0379	24.00	PASS
40	10.0	38750	2310.0	16QAM	25@24	16.34	15.71	0.0372	24.00	PASS
40	10.0	38750	2310.0	16QAM	50@0	16.38	15.75	0.0376	24.00	PASS
40	10.0	38750	2310.0	QPSK	1@0	18.4	17.77	0.0599	24.00	PASS
40	10.0	38750	2310.0	QPSK	1@24	18.47	17.84	0.0608	24.00	PASS

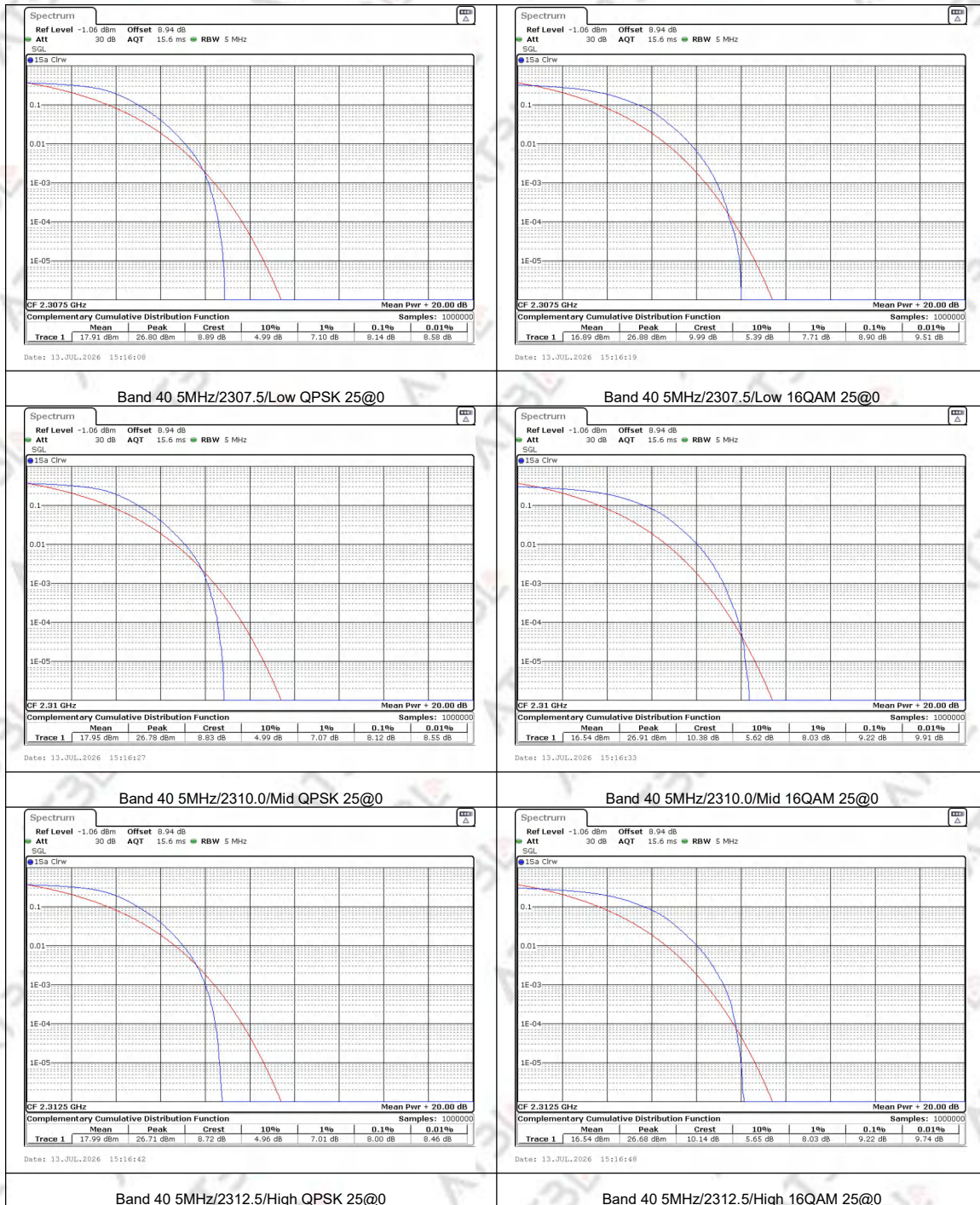
40	10.0	38750	2310.0	QPSK	1@49	18.18	17.55	0.0569	24.00	PASS
40	10.0	38750	2310.0	QPSK	25@0	17.45	16.82	0.0481	24.00	PASS
40	10.0	38750	2310.0	QPSK	25@12	17.46	16.83	0.0482	24.00	PASS
40	10.0	38750	2310.0	QPSK	25@24	17.45	16.82	0.0481	24.00	PASS
40	10.0	38750	2310.0	QPSK	50@0	17.37	16.74	0.0472	24.00	PASS
40	10.0	38750	2310.0	16QAM	1@0	17.19	16.56	0.0453	24.00	PASS
40	10.0	38750	2310.0	16QAM	1@24	17.36	16.73	0.0471	24.00	PASS
40	10.0	38750	2310.0	16QAM	1@49	17.06	16.43	0.044	24.00	PASS
40	10.0	38750	2310.0	16QAM	25@0	16.42	15.79	0.0379	24.00	PASS
40	10.0	38750	2310.0	16QAM	25@12	16.42	15.79	0.0379	24.00	PASS
40	10.0	38750	2310.0	16QAM	25@24	16.42	15.79	0.038	24.00	PASS
40	10.0	38750	2310.0	16QAM	50@0	16.37	15.74	0.0375	24.00	PASS

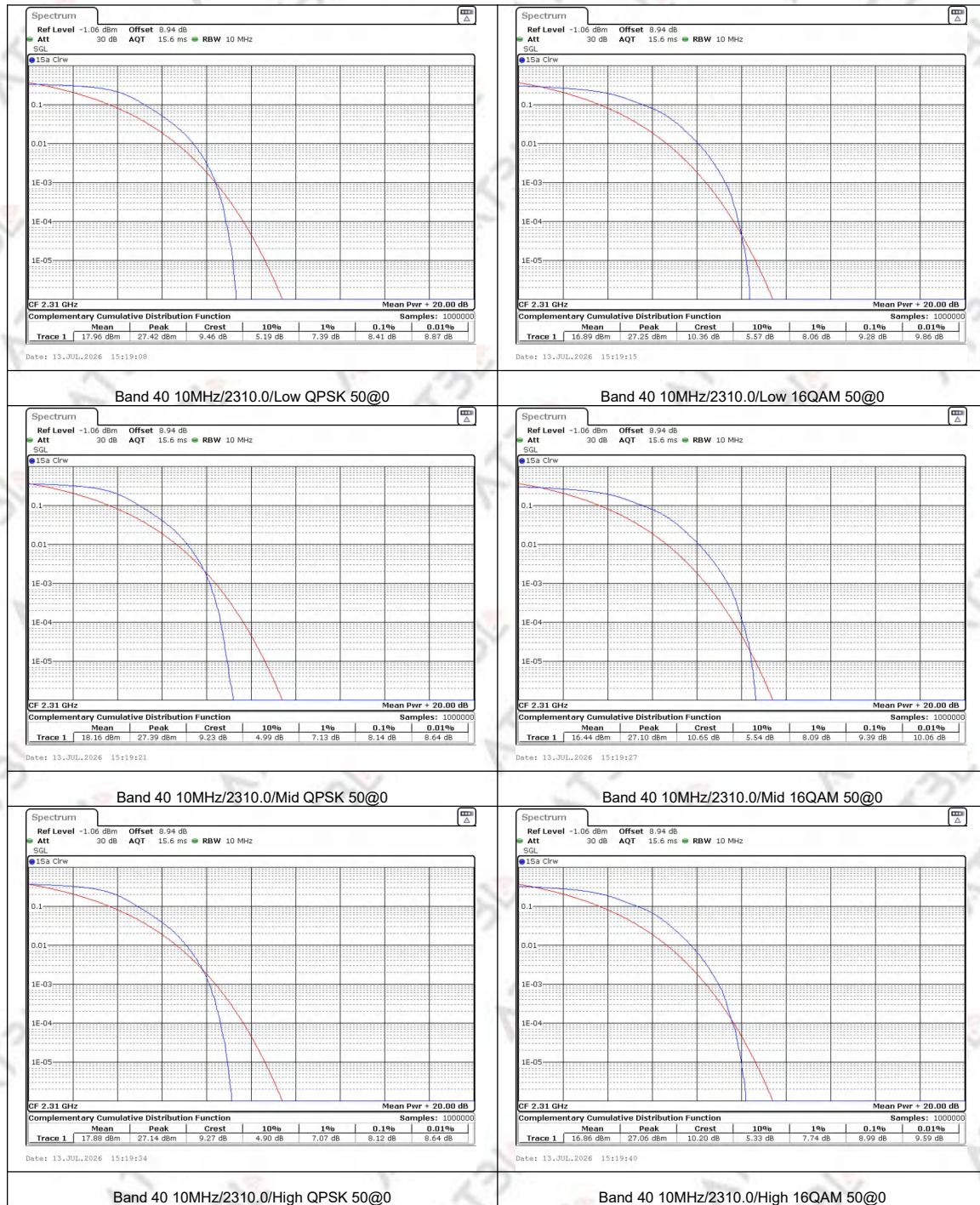
2. Peak to Average Ratio

Test Result

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
40	5.0	38725	2307.5	QPSK	25@0	8.14	13	PASS
40	5.0	38725	2307.5	16QAM	25@0	8.9	13	PASS
40	5.0	38750	2310.0	QPSK	25@0	8.12	13	PASS
40	5.0	38750	2310.0	16QAM	25@0	9.22	13	PASS
40	5.0	38775	2312.5	QPSK	25@0	8.0	13	PASS
40	5.0	38775	2312.5	16QAM	25@0	9.22	13	PASS
40	10.0	38750	2310.0	QPSK	50@0	8.41	13	PASS
40	10.0	38750	2310.0	16QAM	50@0	9.28	13	PASS
40	10.0	38750	2310.0	QPSK	50@0	8.14	13	PASS
40	10.0	38750	2310.0	16QAM	50@0	9.39	13	PASS
40	10.0	38750	2310.0	QPSK	50@0	8.12	13	PASS
40	10.0	38750	2310.0	16QAM	50@0	8.99	13	PASS

Test Graphs



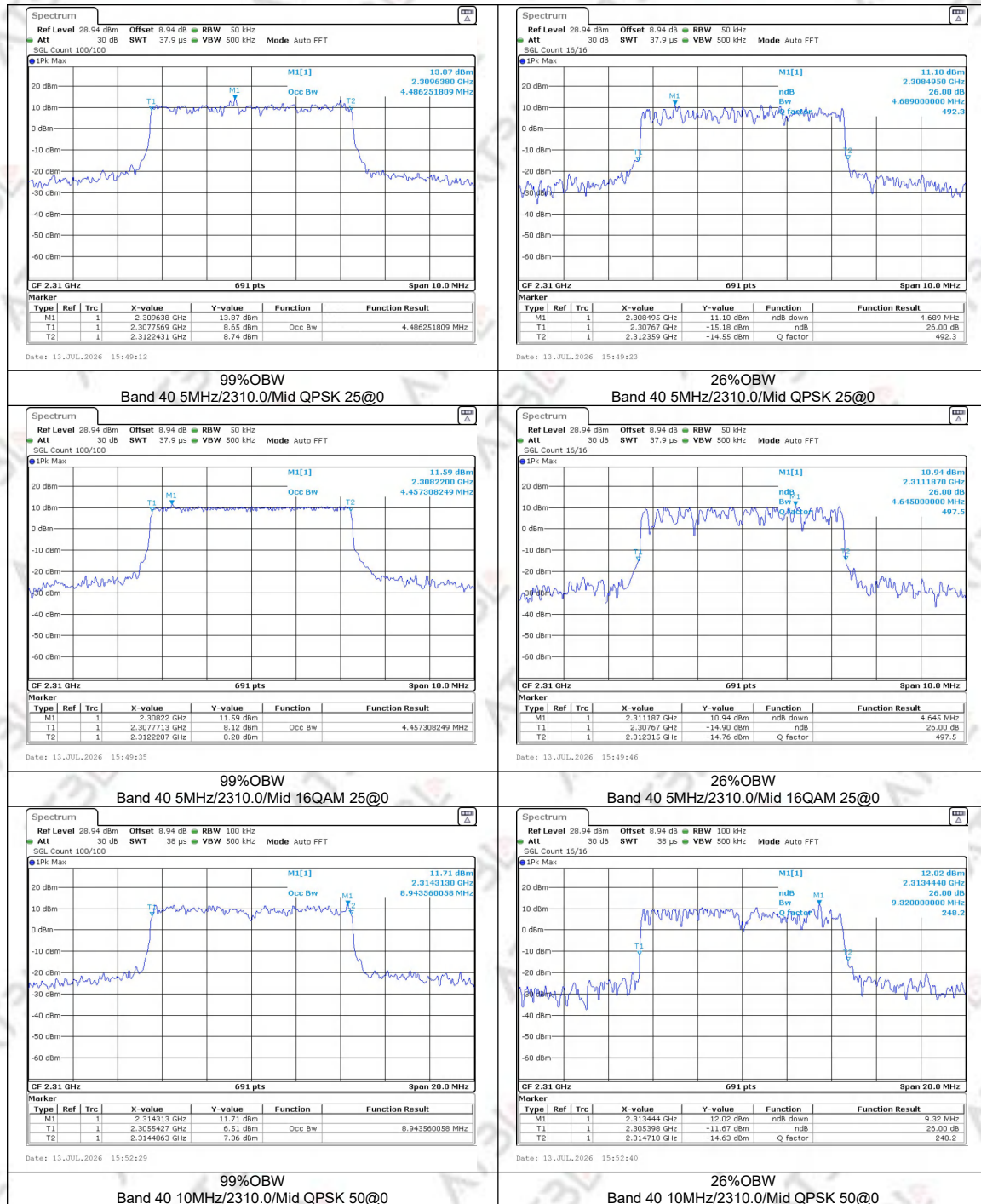


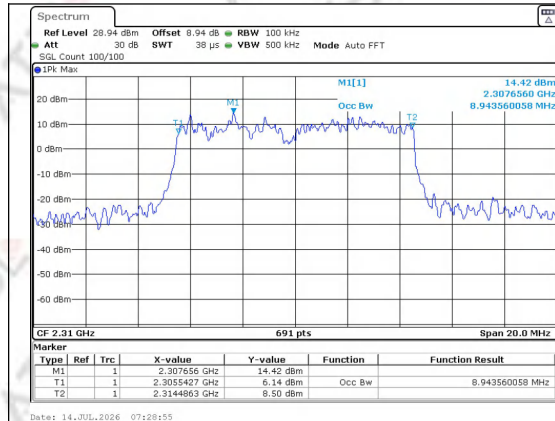
3.Occupied Bandwidth

Test Result

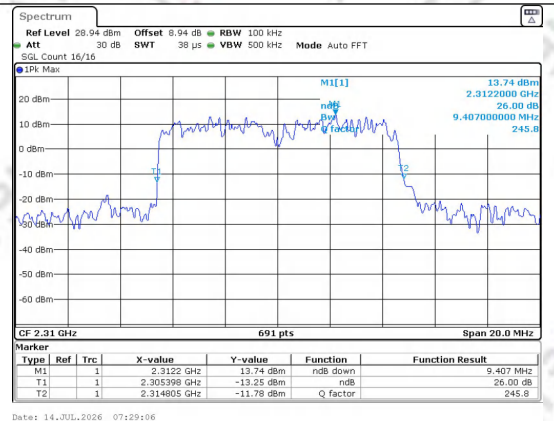
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)	Verdict
40	5.0	38750	2310.0	QPSK	25@0	4.4863	4.689	PASS
40	5.0	38750	2310.0	16QAM	25@0	4.4573	4.645	PASS
40	10.0	38750	2310.0	QPSK	50@0	8.9436	9.320	PASS
40	10.0	38750	2310.0	16QAM	50@0	8.9436	9.407	PASS

Test Graphs





99%OBW
Band 40 10MHz/2310.0/Mid 16QAM 50@0



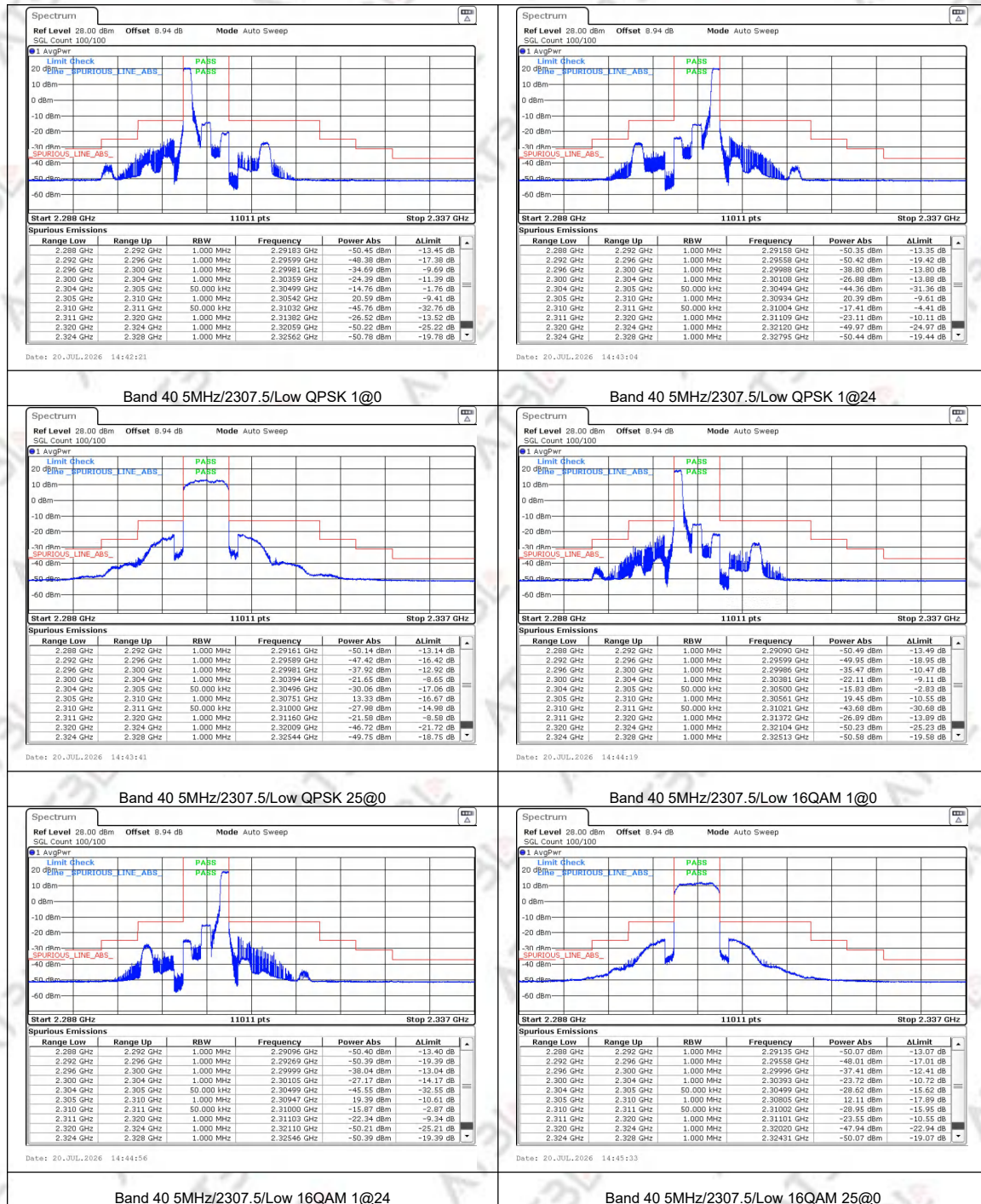
26%OBW
Band 40 10MHz/2310.0/Mid 16QAM 50@0

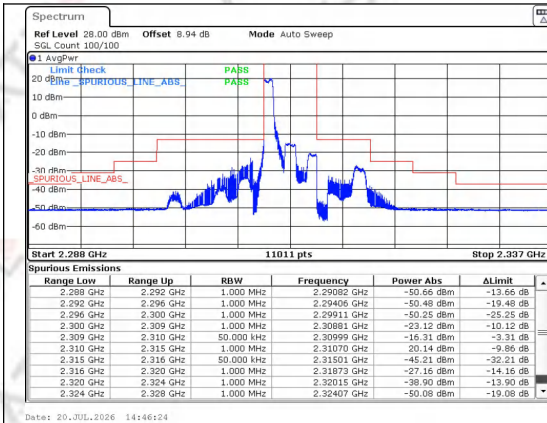
4.Conducted Band Edge

Test Result

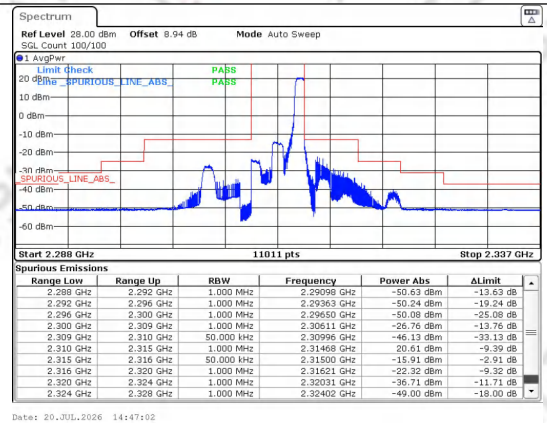
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result	Verdict
40	5.0	38725	2307.5	QPSK	1@0	see graph	PASS
40	5.0	38725	2307.5	QPSK	1@24	see graph	PASS
40	5.0	38725	2307.5	QPSK	25@0	see graph	PASS
40	5.0	38725	2307.5	16QAM	1@0	see graph	PASS
40	5.0	38725	2307.5	16QAM	1@24	see graph	PASS
40	5.0	38725	2307.5	16QAM	25@0	see graph	PASS
40	5.0	38775	2312.5	QPSK	1@0	see graph	PASS
40	5.0	38775	2312.5	QPSK	1@24	see graph	PASS
40	5.0	38775	2312.5	QPSK	25@0	see graph	PASS
40	5.0	38775	2312.5	16QAM	1@0	see graph	PASS
40	5.0	38775	2312.5	16QAM	1@24	see graph	PASS
40	5.0	38775	2312.5	16QAM	25@0	see graph	PASS
40	10.0	38750	2310.0	QPSK	1@0	see graph	PASS
40	10.0	38750	2310.0	QPSK	1@49	see graph	PASS
40	10.0	38750	2310.0	QPSK	50@0	see graph	PASS
40	10.0	38750	2310.0	16QAM	1@0	see graph	PASS
40	10.0	38750	2310.0	16QAM	1@49	see graph	PASS
40	10.0	38750	2310.0	16QAM	50@0	see graph	PASS
40	10.0	38750	2310.0	QPSK	1@0	see graph	PASS
40	10.0	38750	2310.0	QPSK	1@49	see graph	PASS
40	10.0	38750	2310.0	QPSK	50@0	see graph	PASS
40	10.0	38750	2310.0	16QAM	1@0	see graph	PASS
40	10.0	38750	2310.0	16QAM	1@49	see graph	PASS
40	10.0	38750	2310.0	16QAM	50@0	see graph	PASS
40	10.0	38750	2310.0	QPSK	1@0	see graph	PASS
40	10.0	38750	2310.0	QPSK	1@49	see graph	PASS
40	10.0	38750	2310.0	QPSK	50@0	see graph	PASS
40	10.0	38750	2310.0	16QAM	1@0	see graph	PASS
40	10.0	38750	2310.0	16QAM	1@49	see graph	PASS
40	10.0	38750	2310.0	16QAM	50@0	see graph	PASS

Test Graphs

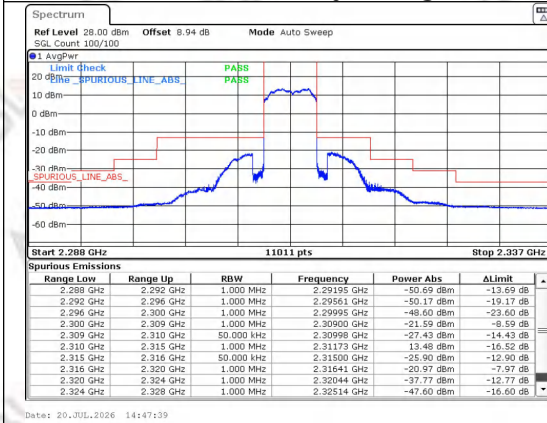




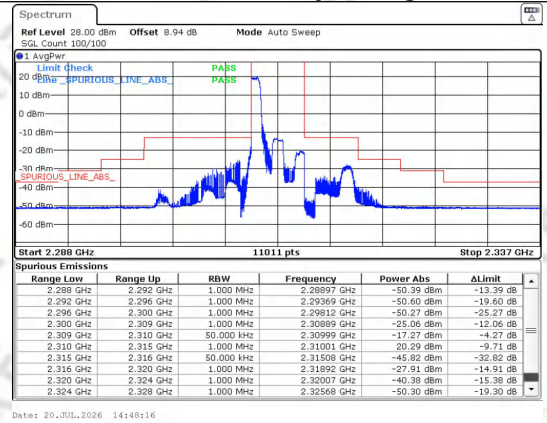
Band 40 5MHz/2312.5/High QPSK 1@0



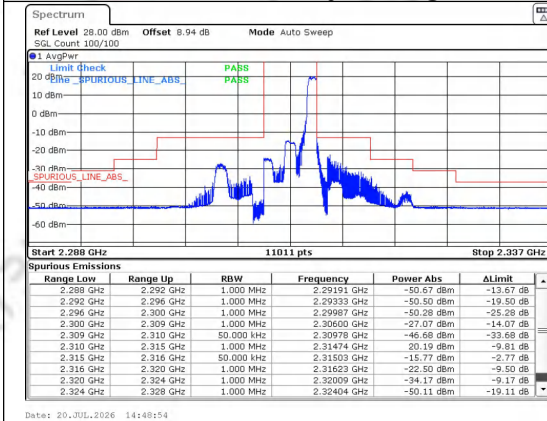
Band 40 5MHz/2312.5/High QPSK 1@24



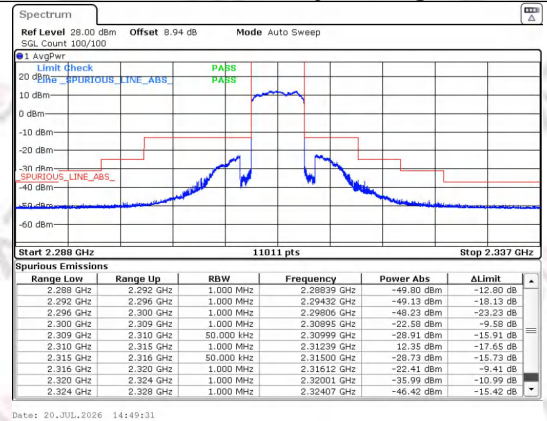
Band 40 5MHz/2312.5/High QPSK 25@0



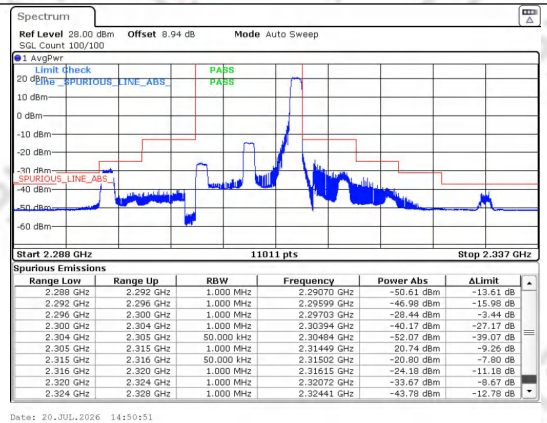
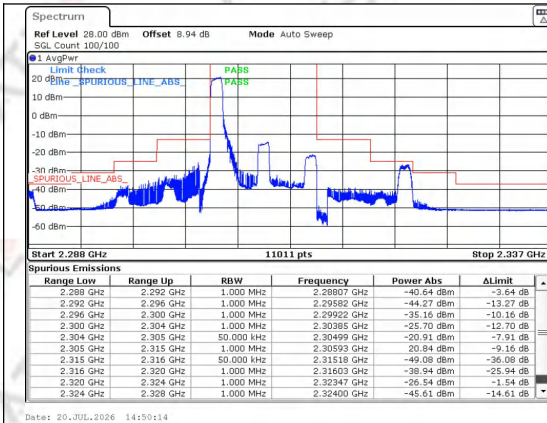
Band 40 5MHz/2312.5/High 16QAM 1@0



Band 40 5MHz/2312.5/High 16QAM 1@24

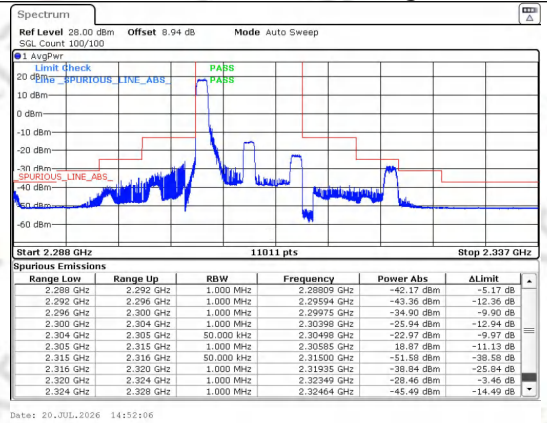
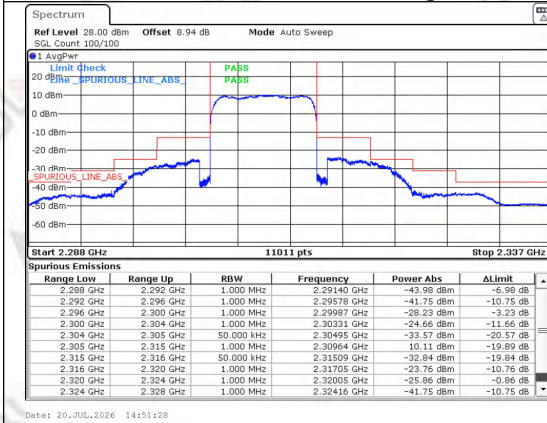


Band 40 5MHz/2312.5/High 16QAM 25@0



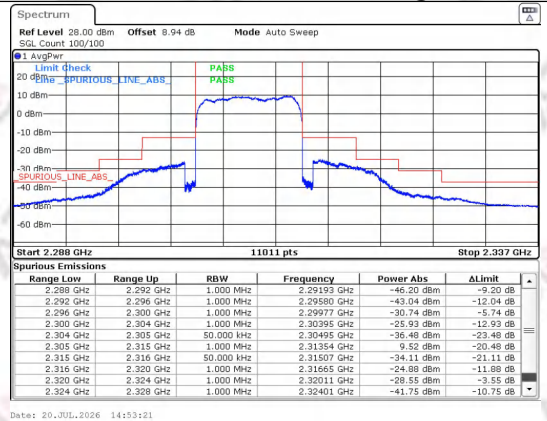
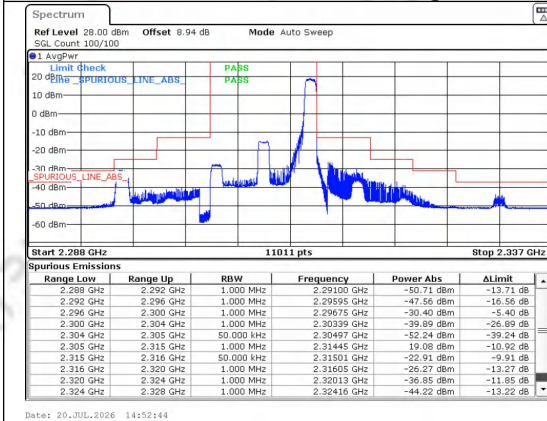
Band 40 10MHz/2310.0/Low QPSK 1@0

Band 40 10MHz/2310.0/Low QPSK 1@49



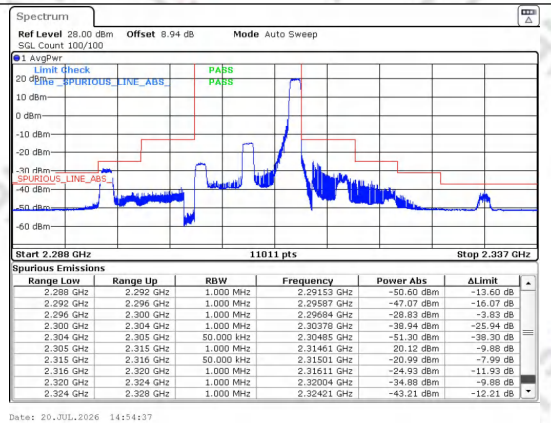
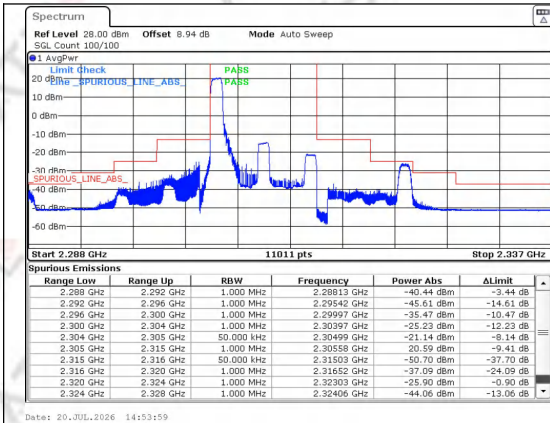
Band 40 10MHz/2310.0/Low QPSK 50@0

Band 40 10MHz/2310.0/Low 16QAM 1@0



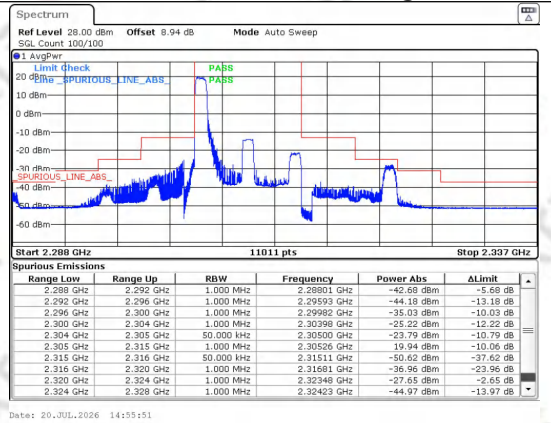
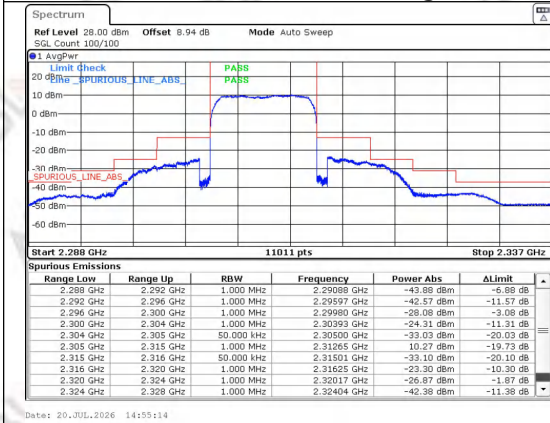
Band 40 10MHz/2310.0/Low 16QAM 1@49

Band 40 10MHz/2310.0/Low 16QAM 50@0



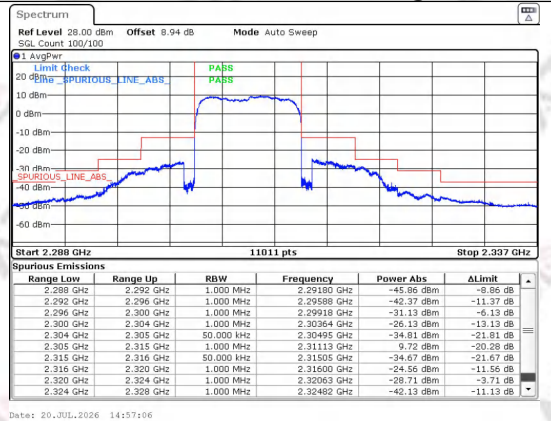
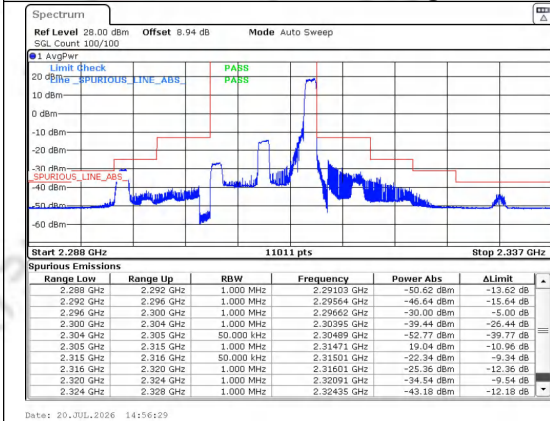
Band 40 10MHz/2310.0/Mid QPSK 1@0

Band 40 10MHz/2310.0/Mid QPSK 1@49



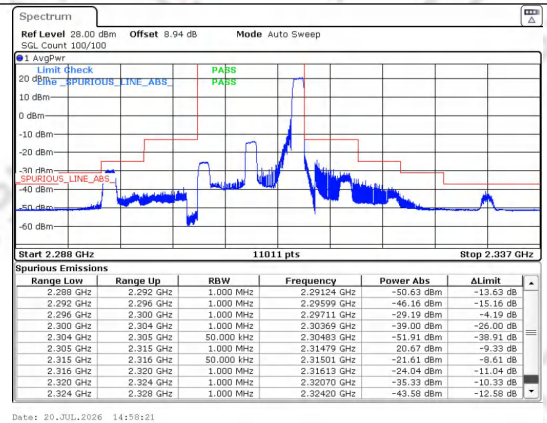
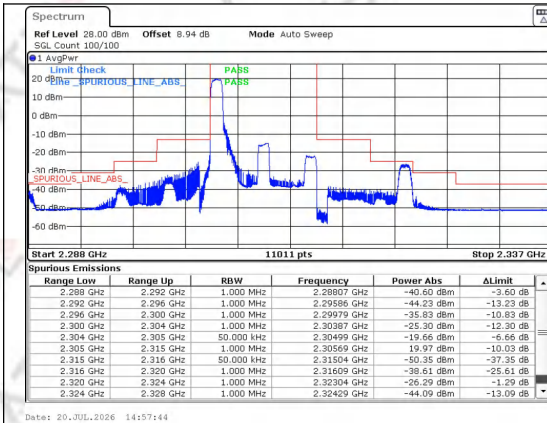
Band 40 10MHz/2310.0/Mid QPSK 50@0

Band 40 10MHz/2310.0/Mid 16QAM 1@0



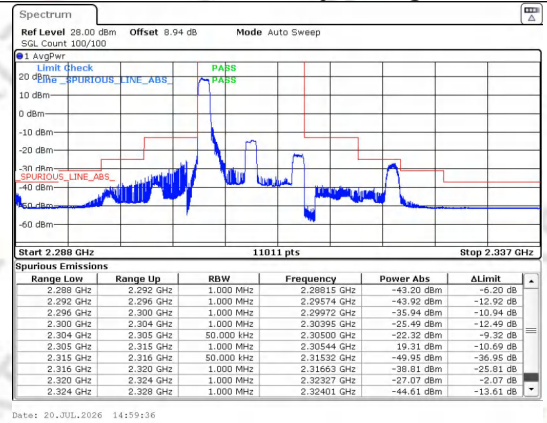
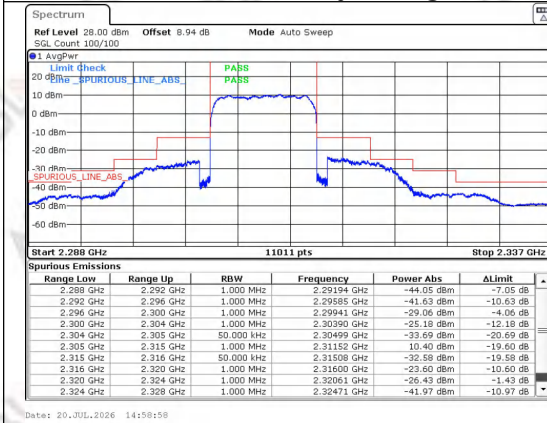
Band 40 10MHz/2310.0/Mid 16QAM 1@49

Band 40 10MHz/2310.0/Mid 16QAM 50@0



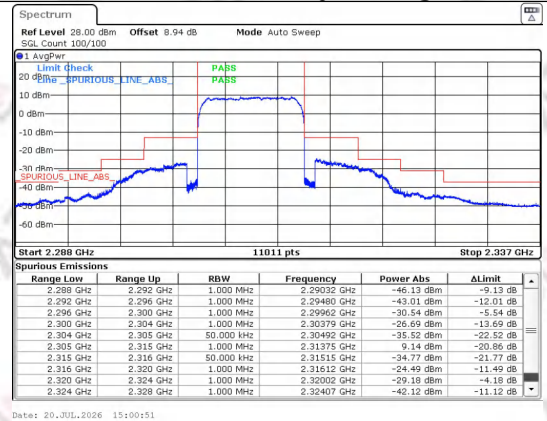
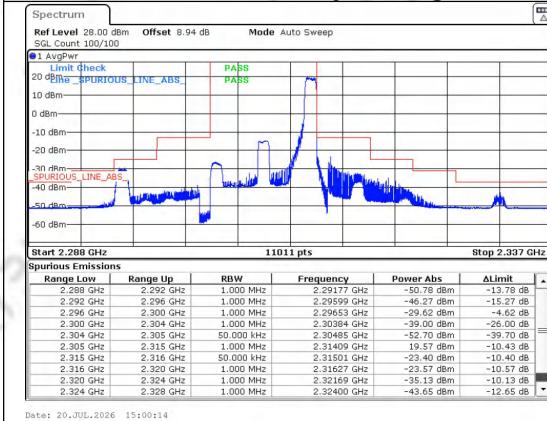
Band 40 10MHz/2310.0/High QPSK 1@0

Band 40 10MHz/2310.0/High QPSK 1@49



Band 40 10MHz/2310.0/High QPSK 50@0

Band 40 10MHz/2310.0/High 16QAM 1@0



Band 40 10MHz/2310.0/High 16QAM 1@49

Band 40 10MHz/2310.0/High 16QAM 50@0

5.Conducted Spurious Emissions

Test Result

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	StartFreq (MHz)	StopFreq (MHz)	Result (dBm)	Limit (dBm)	Verdict
40	5.0	38725	2307.5	QPSK	1@0	30	1000	-39.39	-13	PASS
40	5.0	38725	2307.5	QPSK	1@0	1000	10000	-27.83	-13	PASS
40	5.0	38725	2307.5	QPSK	1@0	10000	20000	-37.61	-13	PASS
40	5.0	38725	2307.5	QPSK	1@0	20000	26500	-35.84	-13	PASS
40	5.0	38725	2307.5	16QAM	1@0	30	1000	-37.47	-13	PASS
40	5.0	38725	2307.5	16QAM	1@0	1000	10000	-24.64	-13	PASS
40	5.0	38725	2307.5	16QAM	1@0	10000	20000	-37.38	-13	PASS
40	5.0	38725	2307.5	16QAM	1@0	20000	26500	-35.57	-13	PASS
40	5.0	38750	2310.0	QPSK	1@0	30	1000	-39.12	-13	PASS
40	5.0	38750	2310.0	QPSK	1@0	1000	10000	-27.28	-13	PASS
40	5.0	38750	2310.0	QPSK	1@0	10000	20000	-37.42	-13	PASS
40	5.0	38750	2310.0	QPSK	1@0	20000	26500	-34.48	-13	PASS
40	5.0	38750	2310.0	16QAM	1@0	30	1000	-41.49	-13	PASS
40	5.0	38750	2310.0	16QAM	1@0	1000	10000	-17.02	-13	PASS
40	5.0	38750	2310.0	16QAM	1@0	10000	20000	-37.7	-13	PASS
40	5.0	38750	2310.0	16QAM	1@0	20000	26500	-35.51	-13	PASS
40	5.0	38775	2312.5	QPSK	1@0	30	1000	-41.14	-13	PASS
40	5.0	38775	2312.5	QPSK	1@0	1000	10000	-15.88	-13	PASS
40	5.0	38775	2312.5	QPSK	1@0	10000	20000	-37.35	-13	PASS
40	5.0	38775	2312.5	QPSK	1@0	20000	26500	-35.78	-13	PASS
40	5.0	38775	2312.5	16QAM	1@0	30	1000	-41.31	-13	PASS
40	5.0	38775	2312.5	16QAM	1@0	1000	10000	-16.98	-13	PASS
40	5.0	38775	2312.5	16QAM	1@0	10000	20000	-37.58	-13	PASS
40	5.0	38775	2312.5	16QAM	1@0	20000	26500	-35.45	-13	PASS
40	10.0	38750	2310.0	QPSK	1@0	30	1000	-41.7	-13	PASS
40	10.0	38750	2310.0	QPSK	1@0	1000	10000	-16.64	-13	PASS
40	10.0	38750	2310.0	QPSK	1@0	10000	20000	-37.43	-13	PASS
40	10.0	38750	2310.0	QPSK	1@0	20000	26500	-35.25	-13	PASS
40	10.0	38750	2310.0	16QAM	1@0	30	1000	-41.0	-13	PASS
40	10.0	38750	2310.0	16QAM	1@0	1000	10000	-19.34	-13	PASS
40	10.0	38750	2310.0	16QAM	1@0	10000	20000	-37.93	-13	PASS
40	10.0	38750	2310.0	16QAM	1@0	20000	26500	-35.91	-13	PASS
40	10.0	38750	2310.0	QPSK	1@0	30	1000	-41.45	-13	PASS
40	10.0	38750	2310.0	QPSK	1@0	1000	10000	-16.54	-13	PASS
40	10.0	38750	2310.0	QPSK	1@0	10000	20000	-37.87	-13	PASS
40	10.0	38750	2310.0	QPSK	1@0	20000	26500	-34.55	-13	PASS
40	10.0	38750	2310.0	16QAM	1@0	30	1000	-41.78	-13	PASS
40	10.0	38750	2310.0	16QAM	1@0	1000	10000	-18.96	-13	PASS
40	10.0	38750	2310.0	16QAM	1@0	10000	20000	-37.74	-13	PASS
40	10.0	38750	2310.0	16QAM	1@0	20000	26500	-34.7	-13	PASS
40	10.0	38750	2310.0	QPSK	1@0	30	1000	-40.8	-13	PASS
40	10.0	38750	2310.0	QPSK	1@0	1000	10000	-19.17	-13	PASS
40	10.0	38750	2310.0	QPSK	1@0	10000	20000	-37.72	-13	PASS
40	10.0	38750	2310.0	QPSK	1@0	20000	26500	-35.23	-13	PASS
40	10.0	38750	2310.0	16QAM	1@0	30	1000	-40.86	-13	PASS
40	10.0	38750	2310.0	16QAM	1@0	1000	10000	-19.53	-13	PASS
40	10.0	38750	2310.0	16QAM	1@0	10000	20000	-37.05	-13	PASS
40	10.0	38750	2310.0	16QAM	1@0	20000	26500	-35.02	-13	PASS

Test Graphs

