

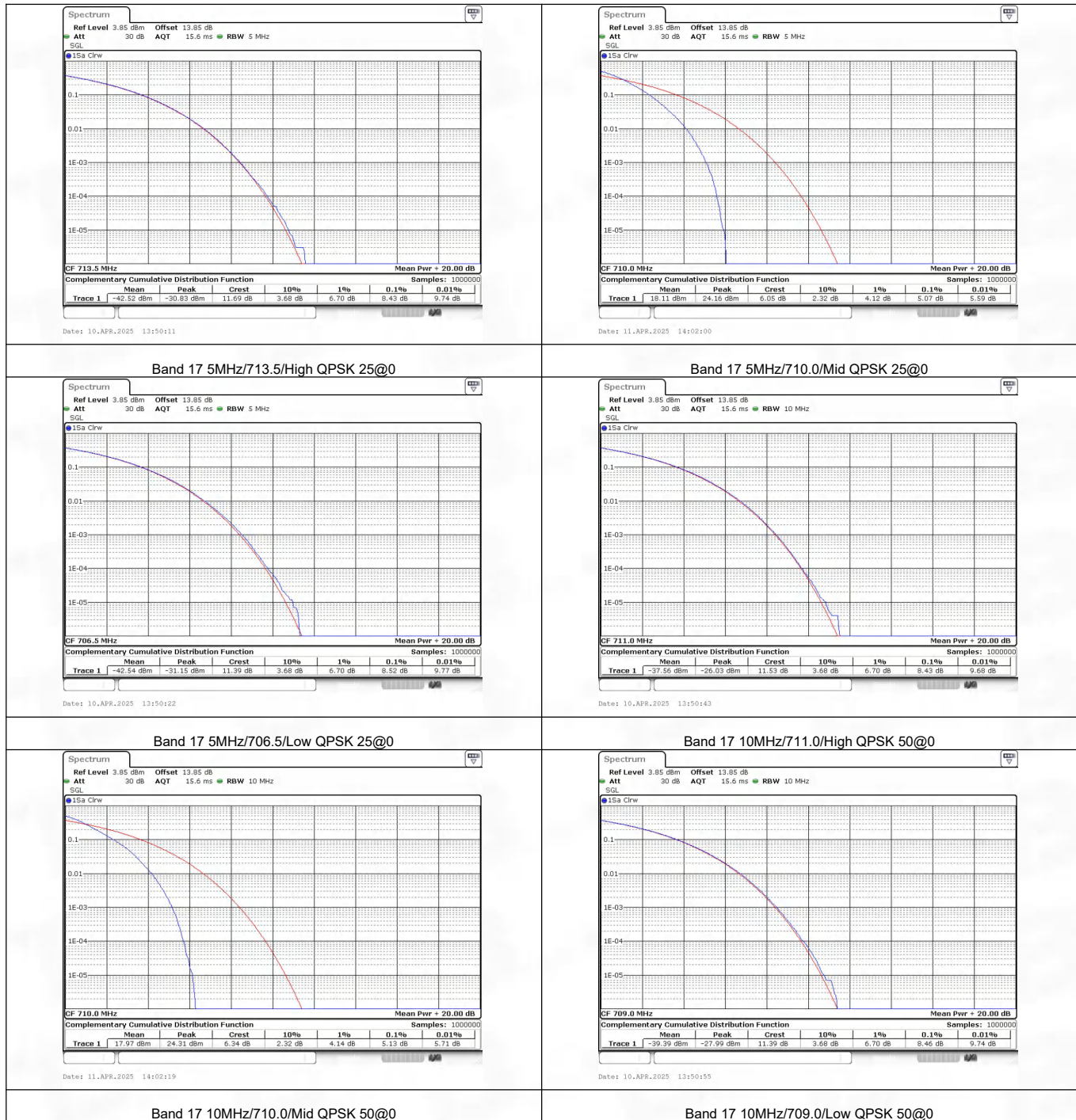
Appendix - LTE

1. Transmitter Conducted Output Power And ERP/EIRP

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP(Limit) (dBm)	Verdict
17	5.0	23825	713.5	QPSK	1@0	22.98	16.4	34.77	PASS
17	5.0	23825	713.5	QPSK	1@12	23.09	16.51	34.77	PASS
17	5.0	23825	713.5	QPSK	1@24	22.91	16.33	34.77	PASS
17	5.0	23825	713.5	QPSK	12@0	21.77	15.19	34.77	PASS
17	5.0	23825	713.5	QPSK	12@6	21.79	15.21	34.77	PASS
17	5.0	23825	713.5	QPSK	12@11	21.79	15.21	34.77	PASS
17	5.0	23825	713.5	QPSK	25@0	21.89	15.31	34.77	PASS
17	5.0	23790	710.0	QPSK	1@0	23.3	16.72	34.77	PASS
17	5.0	23790	710.0	QPSK	1@12	23.05	16.47	34.77	PASS
17	5.0	23790	710.0	QPSK	1@24	22.99	16.41	34.77	PASS
17	5.0	23790	710.0	QPSK	12@0	21.95	15.37	34.77	PASS
17	5.0	23790	710.0	QPSK	12@6	22.02	15.44	34.77	PASS
17	5.0	23790	710.0	QPSK	12@11	22.02	15.44	34.77	PASS
17	5.0	23790	710.0	QPSK	25@0	21.96	15.38	34.77	PASS
17	5.0	23755	706.5	QPSK	1@0	23.57	16.99	34.77	PASS
17	5.0	23755	706.5	QPSK	1@12	23.45	16.87	34.77	PASS
17	5.0	23755	706.5	QPSK	1@24	23.34	16.76	34.77	PASS
17	5.0	23755	706.5	QPSK	12@0	22.4	15.82	34.77	PASS
17	5.0	23755	706.5	QPSK	12@6	22.45	15.87	34.77	PASS
17	5.0	23755	706.5	QPSK	12@11	22.43	15.85	34.77	PASS
17	5.0	23755	706.5	QPSK	25@0	22.42	15.84	34.77	PASS
17	10.0	23790	710.0	QPSK	1@0	23.38	16.8	34.77	PASS
17	10.0	23790	710.0	QPSK	1@24	23.01	16.43	34.77	PASS
17	10.0	23790	710.0	QPSK	1@49	23.22	16.64	34.77	PASS
17	10.0	23790	710.0	QPSK	25@0	21.98	15.4	34.77	PASS
17	10.0	23790	710.0	QPSK	25@12	22.02	15.44	34.77	PASS
17	10.0	23790	710.0	QPSK	25@24	22.03	15.45	34.77	PASS
17	10.0	23790	710.0	QPSK	50@0	21.9	15.32	34.77	PASS
17	10.0	23800	711.0	QPSK	1@0	23.72	17.14	34.77	PASS
17	10.0	23800	711.0	QPSK	1@24	22.96	16.38	34.77	PASS
17	10.0	23800	711.0	QPSK	1@49	23.33	16.75	34.77	PASS
17	10.0	23800	711.0	QPSK	25@0	22.11	15.53	34.77	PASS
17	10.0	23800	711.0	QPSK	25@12	22.12	15.54	34.77	PASS
17	10.0	23800	711.0	QPSK	25@24	22.09	15.51	34.77	PASS
17	10.0	23800	711.0	QPSK	50@0	22.03	15.45	34.77	PASS
17	10.0	23780	709.0	QPSK	1@0	23.37	16.79	34.77	PASS
17	10.0	23780	709.0	QPSK	1@24	23.23	16.65	34.77	PASS
17	10.0	23780	709.0	QPSK	1@49	23.13	16.55	34.77	PASS
17	10.0	23780	709.0	QPSK	25@0	22.12	15.54	34.77	PASS
17	10.0	23780	709.0	QPSK	25@12	22.16	15.58	34.77	PASS
17	10.0	23780	709.0	QPSK	25@24	22.18	15.6	34.77	PASS
17	10.0	23780	709.0	QPSK	50@0	22.04	15.46	34.77	PASS

2. Peak to Average Ratio

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
17	5.0	23825	713.5	QPSK	25@0	8.43	13	PASS
17	5.0	23790	710.0	QPSK	25@0	5.07	13	PASS
17	5.0	23755	706.5	QPSK	25@0	8.52	13	PASS
17	10.0	23800	711.0	QPSK	50@0	8.43	13	PASS
17	10.0	23790	710.0	QPSK	50@0	5.13	13	PASS
17	10.0	23780	709.0	QPSK	50@0	8.46	13	PASS



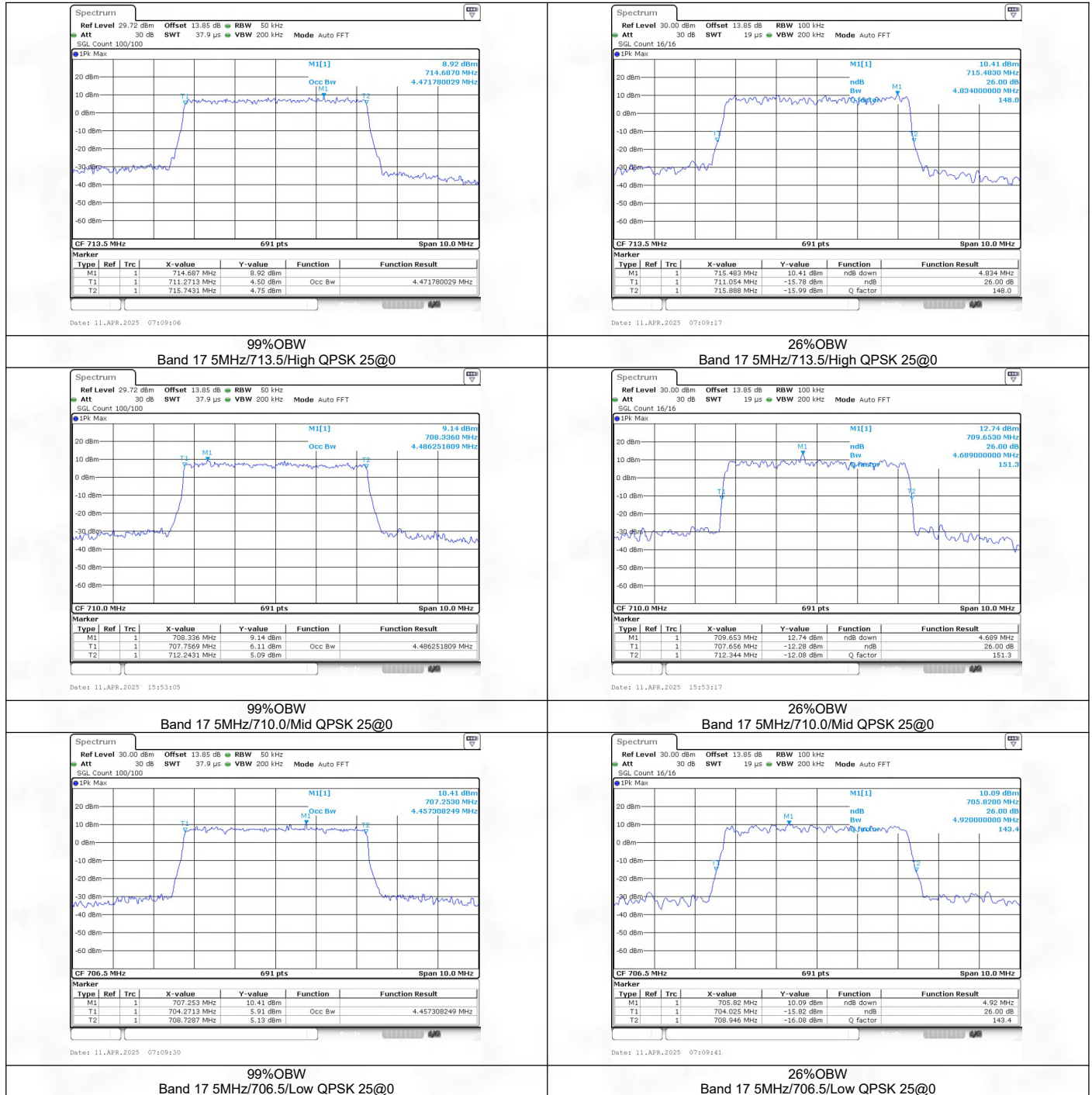
3.Frequency Stability

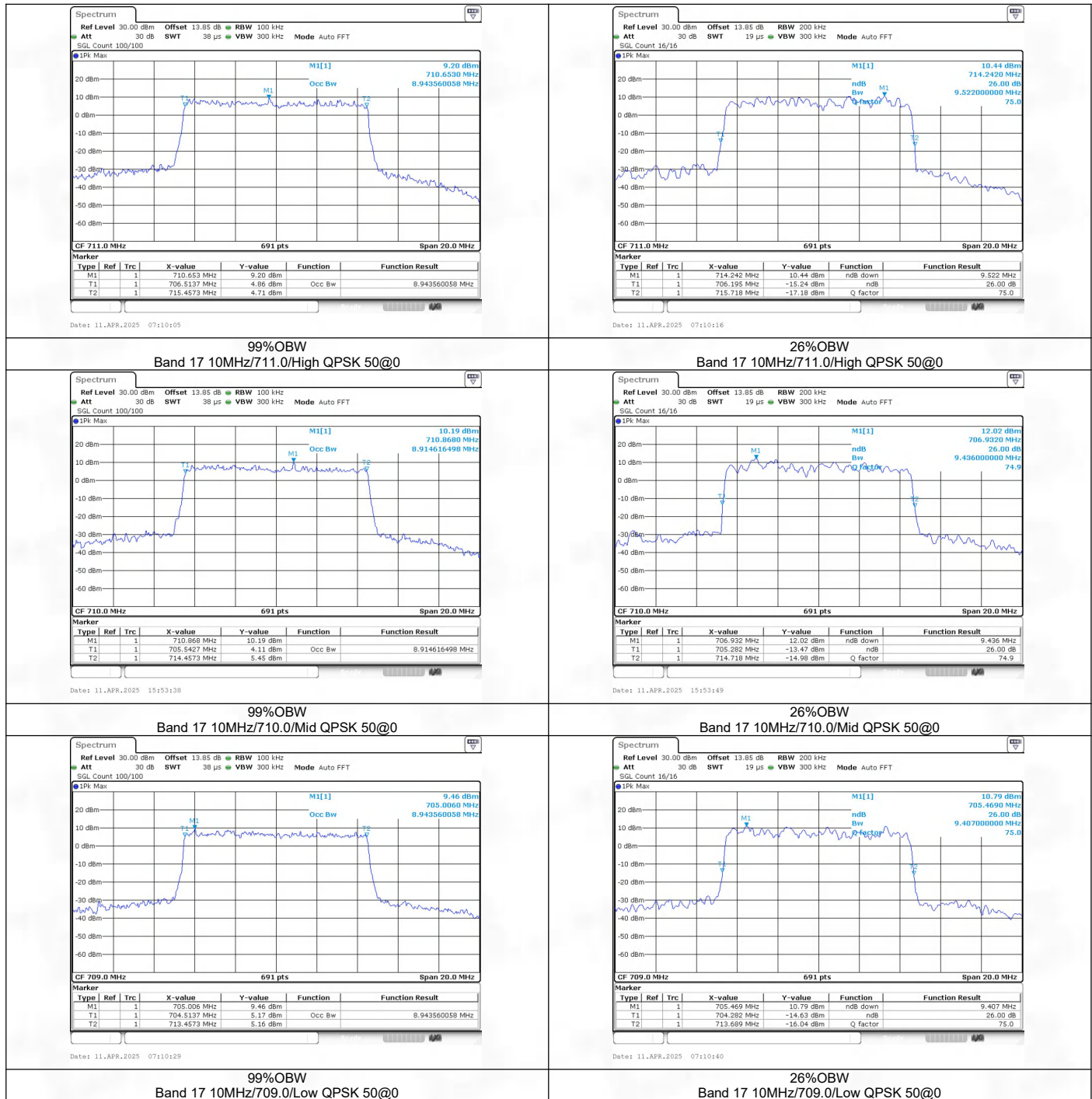
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
17	5.0	23825	713.5	QPSK	25@0	-5.02	-0.00704	±2.5	PASS	Vibration
17	5.0	23825	713.5	QPSK	25@0	0.32	0.00045	±2.5	PASS	Humidity
17	5.0	23825	713.5	QPSK	25@0	-23.85	-0.03342	±2.5	PASS	VL
17	5.0	23825	713.5	QPSK	25@0	-9.84	-0.01379	±2.5	PASS	VN
17	5.0	23825	713.5	QPSK	25@0	-19.14	-0.02683	±2.5	PASS	VH
17	5.0	23825	713.5	QPSK	25@0	-17.68	-0.02478	±2.5	PASS	-30℃
17	5.0	23825	713.5	QPSK	25@0	9.77	0.01369	±2.5	PASS	-20℃
17	5.0	23825	713.5	QPSK	25@0	6.24	0.00874	±2.5	PASS	-10℃
17	5.0	23825	713.5	QPSK	25@0	12.5	0.01752	±2.5	PASS	0℃
17	5.0	23825	713.5	QPSK	25@0	6.47	0.00906	±2.5	PASS	10℃
17	5.0	23825	713.5	QPSK	25@0	17.67	0.02476	±2.5	PASS	20℃
17	5.0	23825	713.5	QPSK	25@0	17.45	0.02446	±2.5	PASS	30℃
17	5.0	23825	713.5	QPSK	25@0	22.77	0.03192	±2.5	PASS	40℃
17	5.0	23825	713.5	QPSK	25@0	-1.19	-0.00166	±2.5	PASS	50℃
17	5.0	23790	710.0	QPSK	25@0	-1.29	-0.00181	±2.5	PASS	Vibration
17	5.0	23790	710.0	QPSK	25@0	-2.93	-0.00413	±2.5	PASS	Humidity
17	5.0	23790	710.0	QPSK	25@0	-2.55	-0.00359	±2.5	PASS	VL
17	5.0	23790	710.0	QPSK	25@0	-2.73	-0.00385	±2.5	PASS	VN
17	5.0	23790	710.0	QPSK	25@0	-6.07	-0.00854	±2.5	PASS	VH
17	5.0	23790	710.0	QPSK	25@0	-5.64	-0.00794	±2.5	PASS	-30℃
17	5.0	23790	710.0	QPSK	25@0	-7.21	-0.01015	±2.5	PASS	-20℃
17	5.0	23790	710.0	QPSK	25@0	-8.27	-0.01165	±2.5	PASS	-10℃
17	5.0	23790	710.0	QPSK	25@0	-2.46	-0.00347	±2.5	PASS	0℃
17	5.0	23790	710.0	QPSK	25@0	0.32	0.00045	±2.5	PASS	10℃
17	5.0	23790	710.0	QPSK	25@0	2.19	0.00308	±2.5	PASS	20℃
17	5.0	23790	710.0	QPSK	25@0	-6.09	-0.00858	±2.5	PASS	30℃
17	5.0	23755	706.5	QPSK	25@0	-11.66	-0.0165	±2.5	PASS	VL
17	5.0	23755	706.5	QPSK	25@0	10.29	0.01456	±2.5	PASS	VN
17	5.0	23755	706.5	QPSK	25@0	1.47	0.00209	±2.5	PASS	VH
17	5.0	23755	706.5	QPSK	25@0	7.93	0.01122	±2.5	PASS	-30℃
17	5.0	23755	706.5	QPSK	25@0	8.74	0.01237	±2.5	PASS	-20℃
17	5.0	23755	706.5	QPSK	25@0	11.83	0.01674	±2.5	PASS	-10℃
17	5.0	23755	706.5	QPSK	25@0	8.75	0.01239	±2.5	PASS	0℃
17	5.0	23755	706.5	QPSK	25@0	19.9	0.02816	±2.5	PASS	10℃
17	5.0	23755	706.5	QPSK	25@0	15.15	0.02144	±2.5	PASS	20℃
17	5.0	23755	706.5	QPSK	25@0	-1.2	-0.0017	±2.5	PASS	30℃
17	5.0	23755	706.5	QPSK	25@0	-17.18	-0.02432	±2.5	PASS	40℃
17	5.0	23755	706.5	QPSK	25@0	-18.87	-0.02671	±2.5	PASS	50℃
17	10.0	23800	711.0	QPSK	50@0	1.6	0.00225	±2.5	PASS	Vibration
17	10.0	23800	711.0	QPSK	50@0	-7.35	-0.01034	±2.5	PASS	Humidity
17	10.0	23800	711.0	QPSK	50@0	-6.71	-0.00944	±2.5	PASS	VL
17	10.0	23800	711.0	QPSK	50@0	23.15	0.03255	±2.5	PASS	VN
17	10.0	23800	711.0	QPSK	50@0	11.23	0.01579	±2.5	PASS	VH
17	10.0	23800	711.0	QPSK	50@0	22.02	0.03096	±2.5	PASS	-30℃
17	10.0	23800	711.0	QPSK	50@0	23.35	0.03284	±2.5	PASS	-20℃
17	10.0	23800	711.0	QPSK	50@0	5.87	0.00825	±2.5	PASS	-10℃
17	10.0	23800	711.0	QPSK	50@0	14.88	0.02092	±2.5	PASS	0℃
17	10.0	23800	711.0	QPSK	50@0	13.39	0.01883	±2.5	PASS	10℃
17	10.0	23800	711.0	QPSK	50@0	15.38	0.02163	±2.5	PASS	20℃
17	10.0	23800	711.0	QPSK	50@0	16.58	0.02332	±2.5	PASS	30℃
17	10.0	23800	711.0	QPSK	50@0	23.16	0.03257	±2.5	PASS	40℃
17	10.0	23800	711.0	QPSK	50@0	6.69	0.00942	±2.5	PASS	50℃
17	10.0	23790	710.0	QPSK	50@0	-0.62	-0.00087	±2.5	PASS	Vibration
17	10.0	23790	710.0	QPSK	50@0	-4.49	-0.00633	±2.5	PASS	Humidity
17	10.0	23790	710.0	QPSK	50@0	-5.55	-0.00782	±2.5	PASS	VL
17	10.0	23790	710.0	QPSK	50@0	-5.99	-0.00844	±2.5	PASS	VN
17	10.0	23790	710.0	QPSK	50@0	1.83	0.00258	±2.5	PASS	VH
17	10.0	23790	710.0	QPSK	50@0	-2.56	-0.00361	±2.5	PASS	-30℃
17	10.0	23790	710.0	QPSK	50@0	-6.32	-0.00891	±2.5	PASS	-20℃
17	10.0	23790	710.0	QPSK	50@0	3.15	0.00443	±2.5	PASS	-10℃
17	10.0	23790	710.0	QPSK	50@0	-2.79	-0.00393	±2.5	PASS	0℃
17	10.0	23790	710.0	QPSK	50@0	-6.79	-0.00957	±2.5	PASS	10℃
17	10.0	23790	710.0	QPSK	50@0	-1.85	-0.0026	±2.5	PASS	20℃
17	10.0	23790	710.0	QPSK	50@0	-2.02	-0.00284	±2.5	PASS	30℃
17	10.0	23780	709.0	QPSK	50@0	-18.44	-0.02601	±2.5	PASS	VL
17	10.0	23780	709.0	QPSK	50@0	10.91	0.01539	±2.5	PASS	VN
17	10.0	23780	709.0	QPSK	50@0	5.88	0.00829	±2.5	PASS	VH
17	10.0	23780	709.0	QPSK	50@0	21.53	0.03037	±2.5	PASS	-30℃
17	10.0	23780	709.0	QPSK	50@0	3.38	0.00476	±2.5	PASS	-20℃
17	10.0	23780	709.0	QPSK	50@0	10.27	0.01449	±2.5	PASS	-10℃
17	10.0	23780	709.0	QPSK	50@0	22.17	0.03127	±2.5	PASS	0℃
17	10.0	23780	709.0	QPSK	50@0	0.32	0.00045	±2.5	PASS	10℃

17	10.0	23780	709.0	QPSK	50@0	14.75	0.0208	±2.5	PASS	20℃
17	10.0	23780	709.0	QPSK	50@0	16.19	0.02284	±2.5	PASS	30℃
17	10.0	23780	709.0	QPSK	50@0	0.74	0.00105	±2.5	PASS	40℃
17	10.0	23780	709.0	QPSK	50@0	6.64	0.00936	±2.5	PASS	50℃

4.Occupied Bandwidth

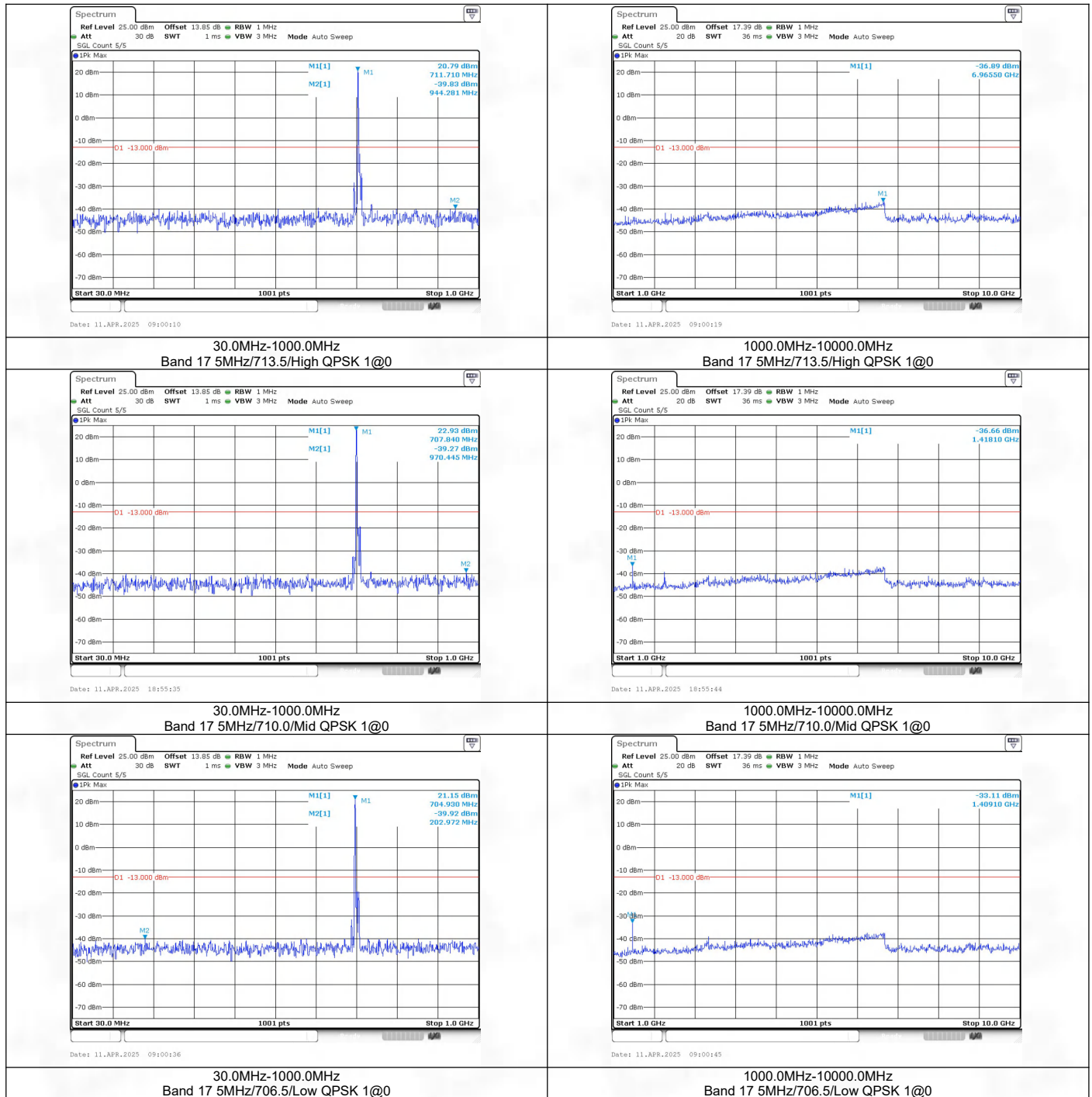
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)	Verdict
17	5.0	23825	713.5	QPSK	25@0	4.4718	4.834	PASS
17	5.0	23790	710.0	QPSK	25@0	4.4863	4.689	PASS
17	5.0	23755	706.5	QPSK	25@0	4.4573	4.920	PASS
17	10.0	23800	711.0	QPSK	50@0	8.9436	9.522	PASS
17	10.0	23790	710.0	QPSK	50@0	8.9146	9.436	PASS
17	10.0	23780	709.0	QPSK	50@0	8.9436	9.407	PASS

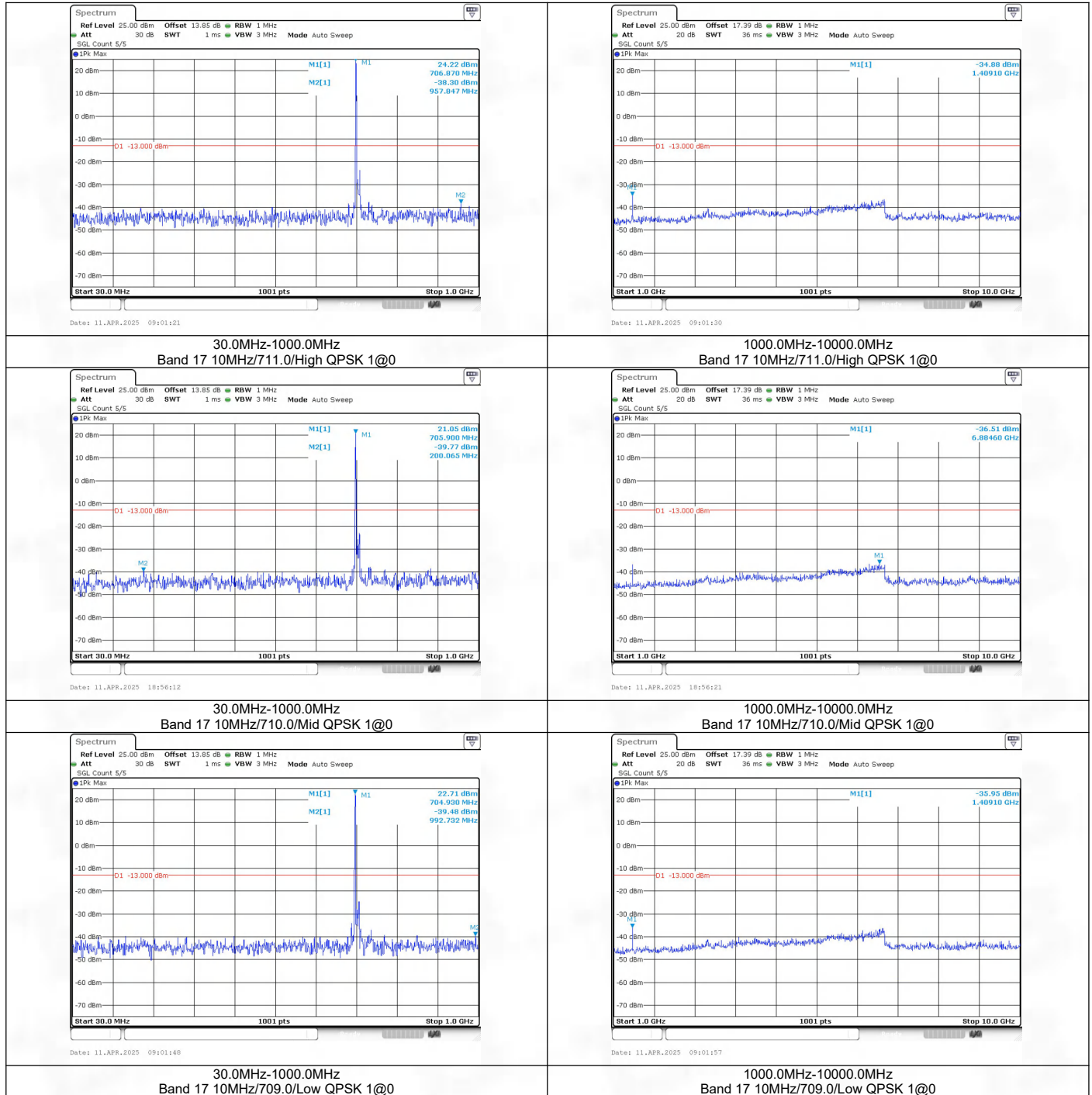




5. Conducted Spurious Emissions

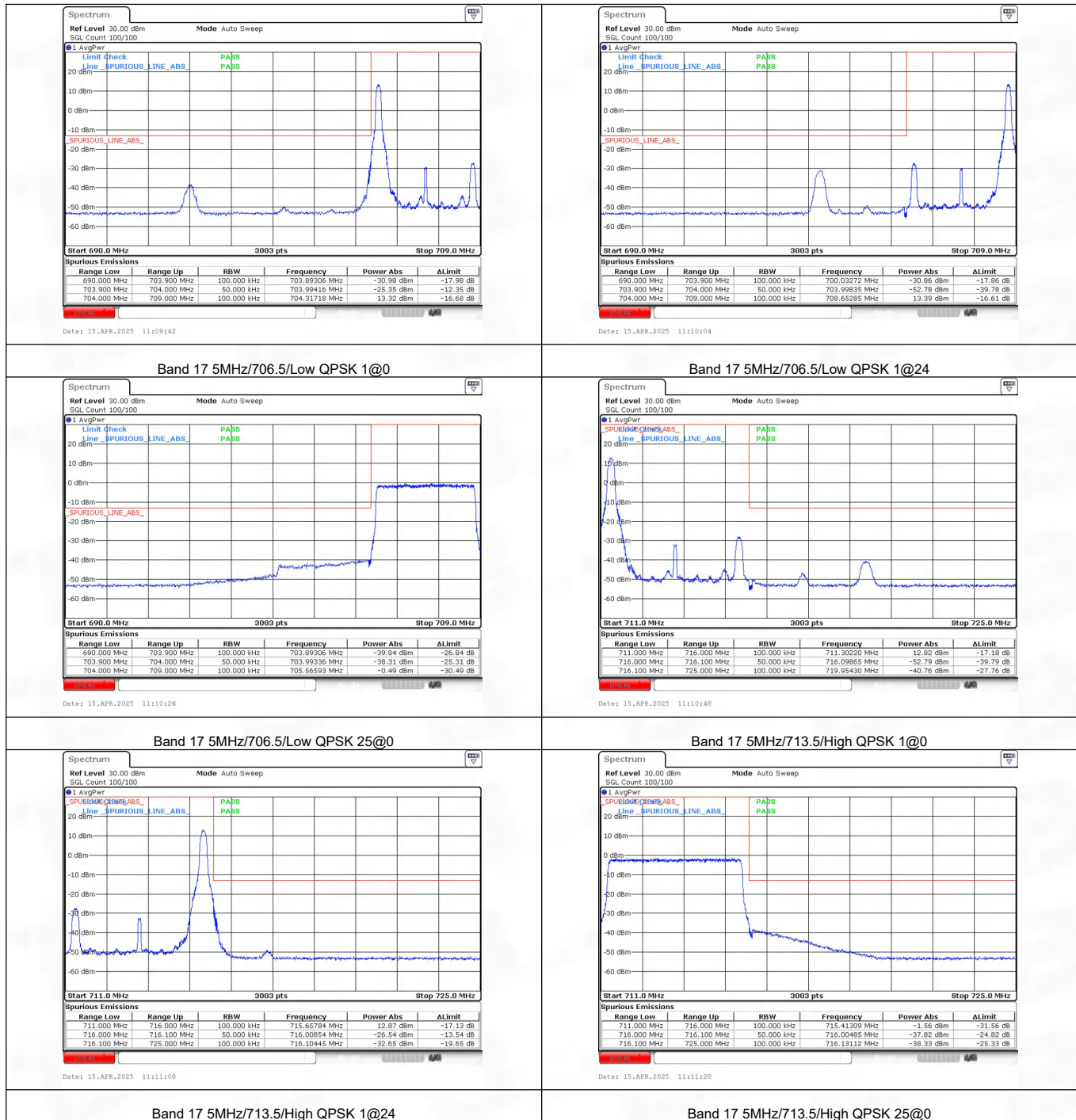
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	StartFreq (MHz)	StopFreq (MHz)	Result (dBm)	Limit (dBm)	Verdict
17	5.0	23825	713.5	QPSK	1@0	30	1000	-39.83	-13	PASS
17	5.0	23825	713.5	QPSK	1@0	1000	10000	-36.89	-13	PASS
17	5.0	23790	710.0	QPSK	1@0	30	1000	-39.27	-13	PASS
17	5.0	23790	710.0	QPSK	1@0	1000	10000	-36.66	-13	PASS
17	5.0	23755	706.5	QPSK	1@0	30	1000	-39.92	-13	PASS
17	5.0	23755	706.5	QPSK	1@0	1000	10000	-33.11	-13	PASS
17	10.0	23800	711.0	QPSK	1@0	30	1000	-38.3	-13	PASS
17	10.0	23800	711.0	QPSK	1@0	1000	10000	-34.88	-13	PASS
17	10.0	23790	710.0	QPSK	1@0	30	1000	-39.77	-13	PASS
17	10.0	23790	710.0	QPSK	1@0	1000	10000	-36.51	-13	PASS
17	10.0	23780	709.0	QPSK	1@0	30	1000	-39.48	-13	PASS
17	10.0	23780	709.0	QPSK	1@0	1000	10000	-35.95	-13	PASS

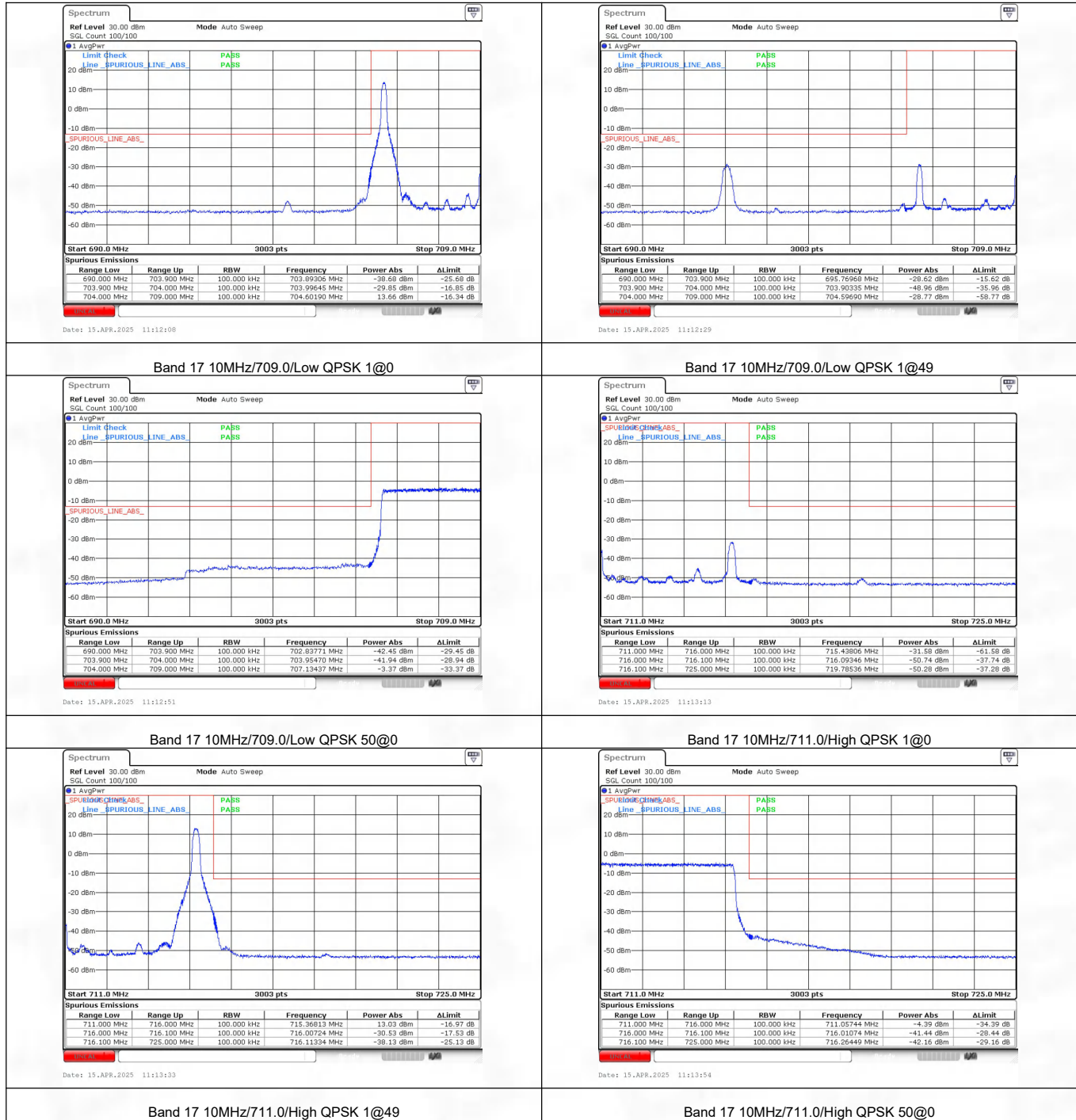




6. Conducted Band Edge

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result	Verdict
17	5.0	23755	706.5	QPSK	1@0	see graph	PASS
17	5.0	23755	706.5	QPSK	1@24	see graph	PASS
17	5.0	23755	706.5	QPSK	25@0	see graph	PASS
17	5.0	23825	713.5	QPSK	1@0	see graph	PASS
17	5.0	23825	713.5	QPSK	1@24	see graph	PASS
17	5.0	23825	713.5	QPSK	25@0	see graph	PASS
17	10.0	23780	709.0	QPSK	1@0	see graph	PASS
17	10.0	23780	709.0	QPSK	1@49	see graph	PASS
17	10.0	23780	709.0	QPSK	50@0	see graph	PASS
17	10.0	23800	711.0	QPSK	1@0	see graph	PASS
17	10.0	23800	711.0	QPSK	1@49	see graph	PASS
17	10.0	23800	711.0	QPSK	50@0	see graph	PASS





7.Modulation Characteristics

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Verdict
17	5.0	23825	713.5	QPSK	25@0	PASS
17	5.0	23790	710.0	QPSK	25@0	PASS
17	5.0	23755	706.5	QPSK	25@0	PASS
17	10.0	23800	711.0	QPSK	50@0	PASS
17	10.0	23790	710.0	QPSK	50@0	PASS
17	10.0	23780	709.0	QPSK	50@0	PASS

