

FCC LTE Band Test Data

FCC ID : 2BF4O-CC4PRO

Company: : Shenzhen TEYES High tech Co., Ltd.

EUT : Car Headunit

Model Number : CC4PRO

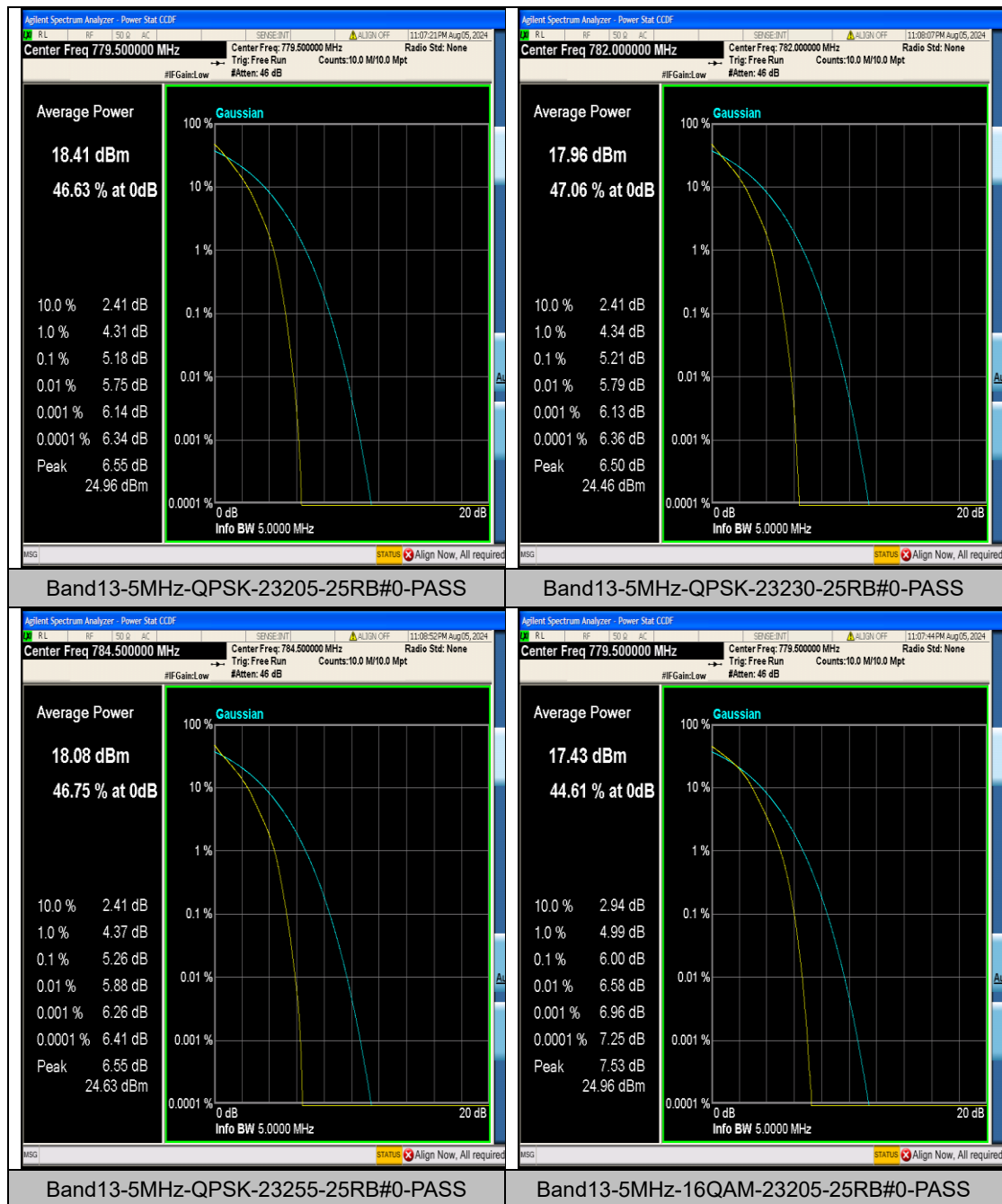
Reviewed By : Eric Wang

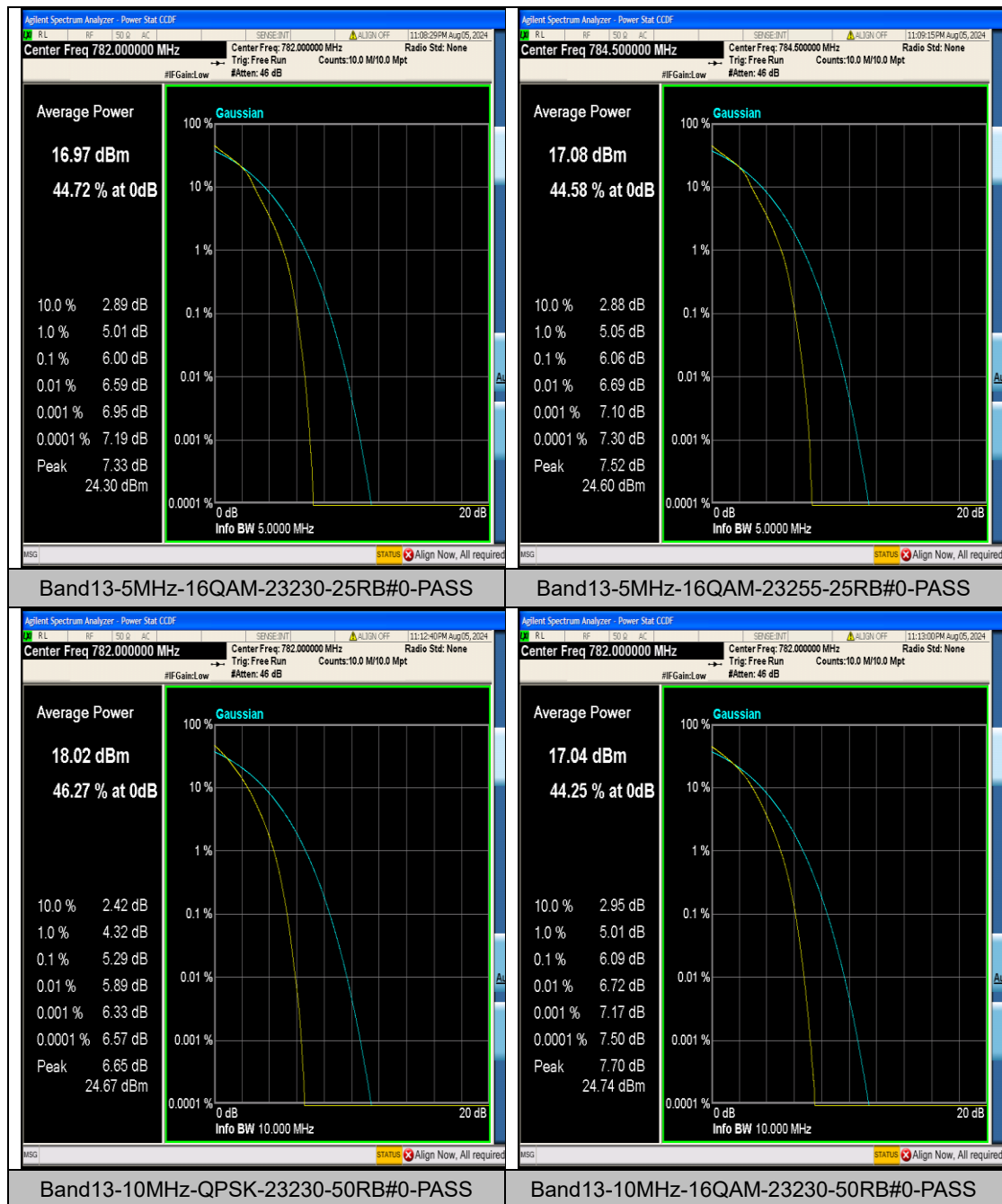
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	5.18	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.21	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	5.26	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	6.00	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	6.00	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	6.06	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.29	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.09	13	PASS

Test Graphs



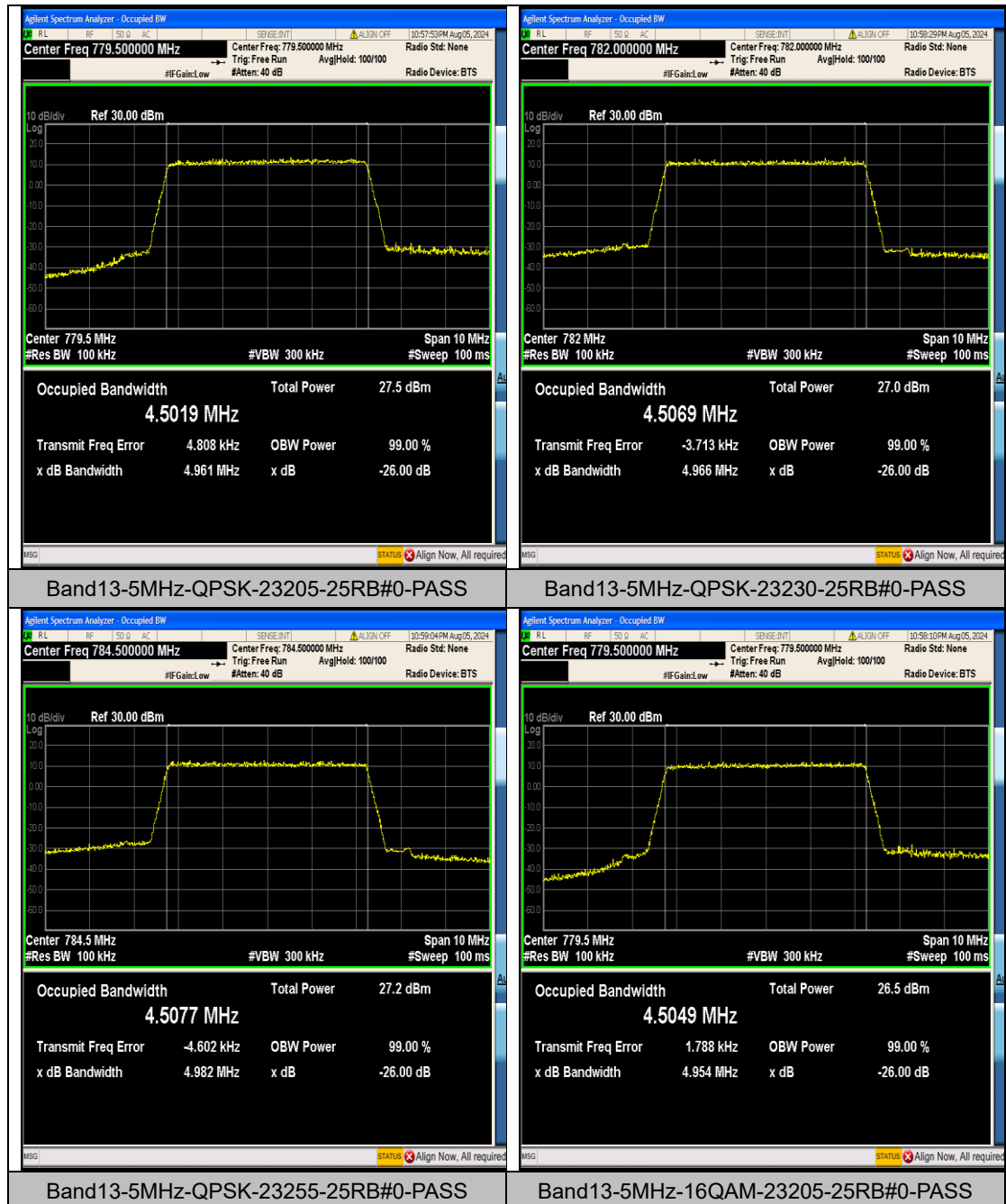


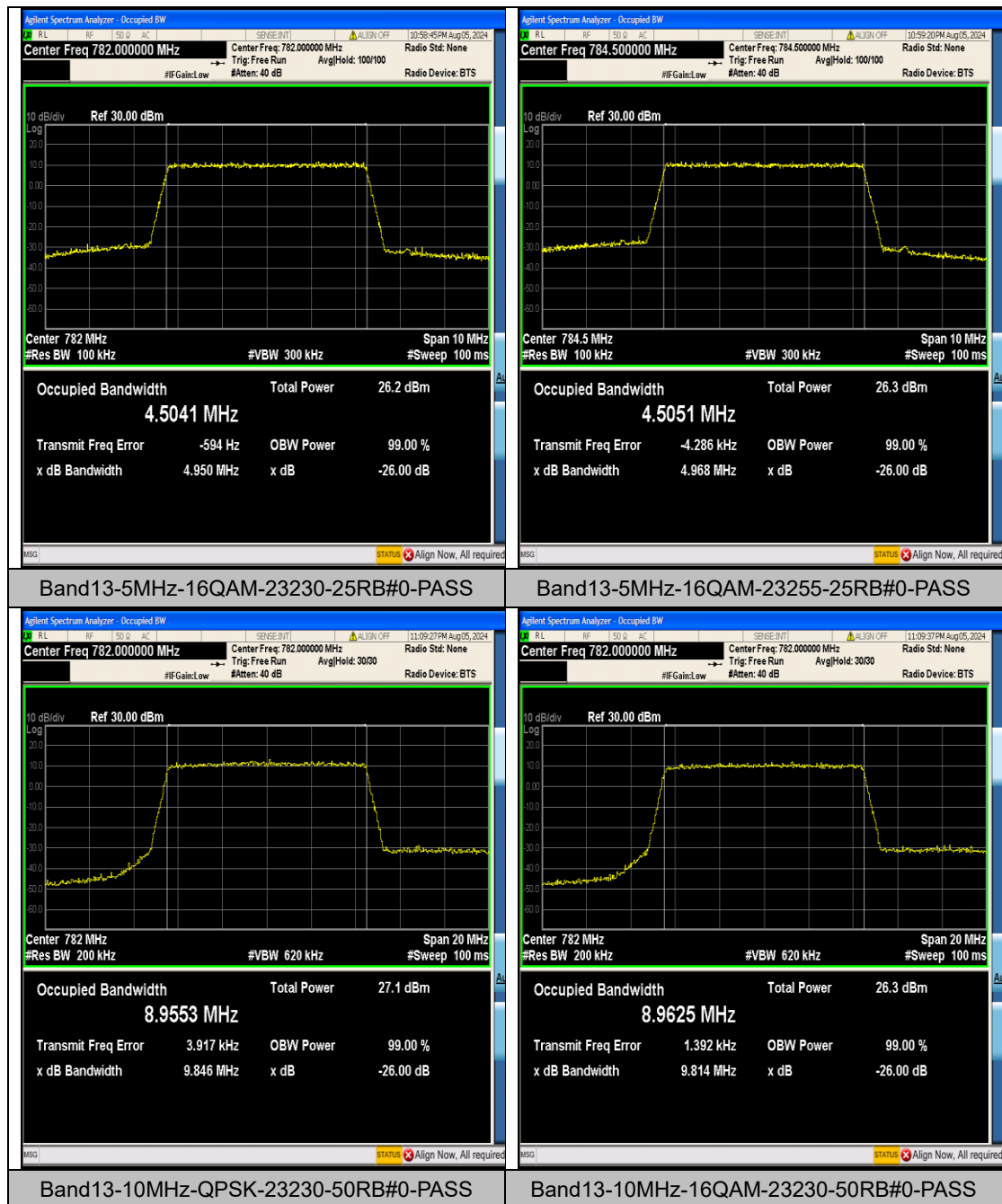
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.5019	4.961	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.5069	4.966	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5077	4.982	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.5049	4.954	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5041	4.950	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5051	4.968	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.9553	9.846	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.9625	9.814	PASS

Test Graphs



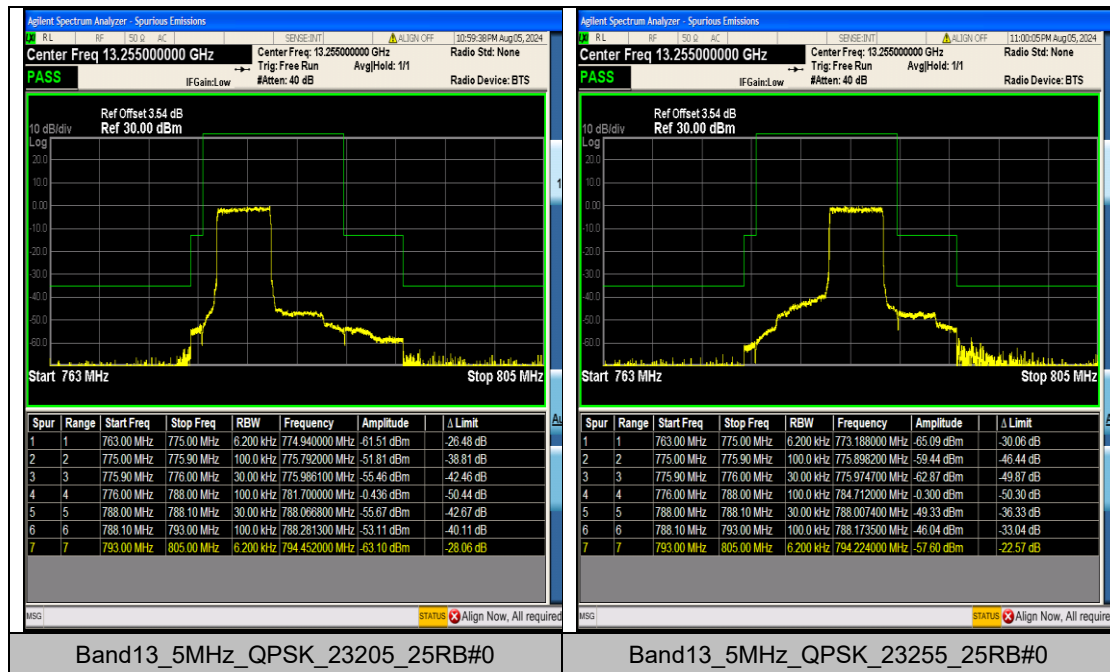


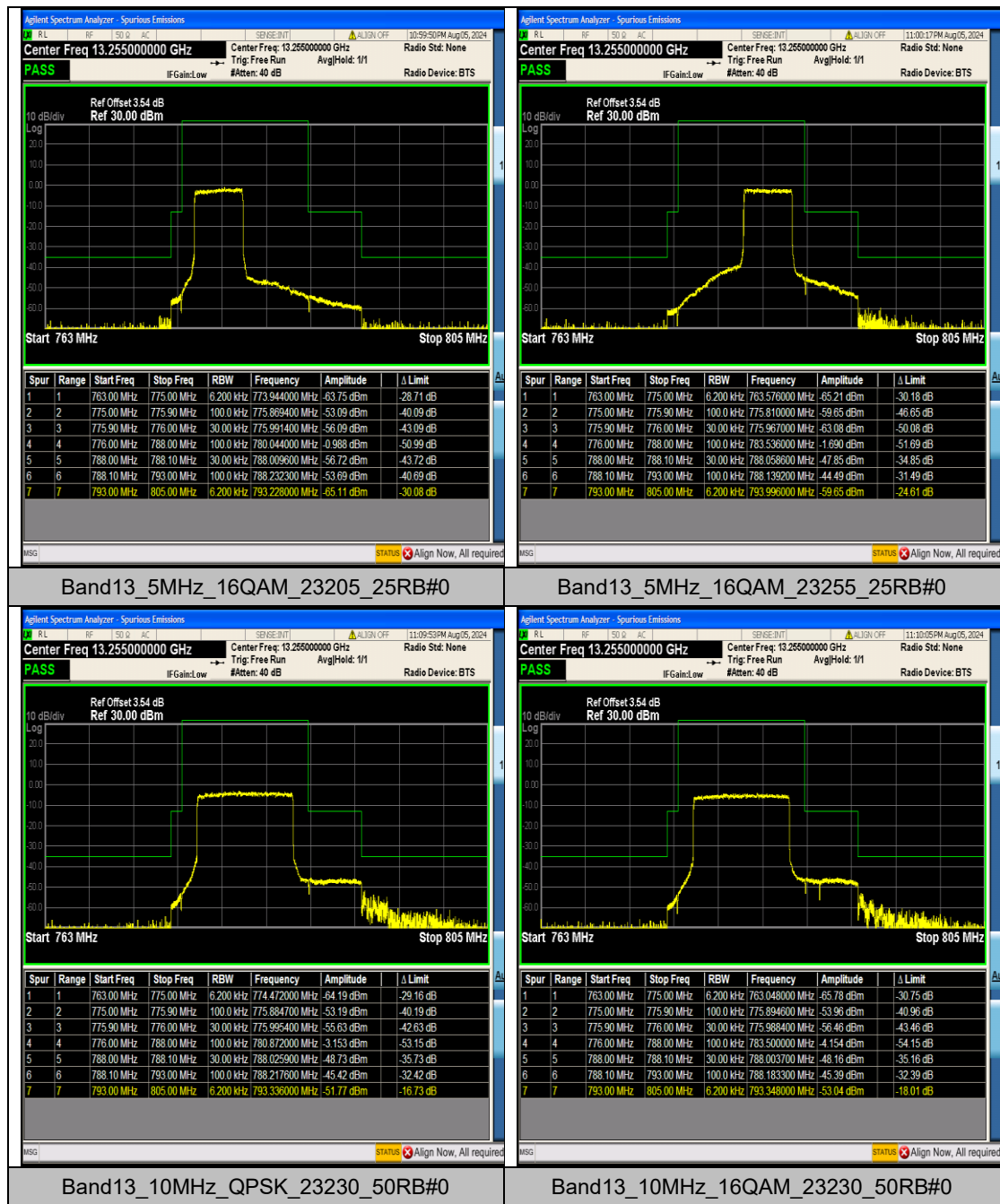
Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	-61.51	PASS
Band13	5MHz	QPSK	23255	25RB#0	-57.60	PASS
Band13	5MHz	16QAM	23205	25RB#0	-63.75	PASS
Band13	5MHz	16QAM	23255	25RB#0	-59.65	PASS
Band13	10MHz	QPSK	23230	50RB#0	-51.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	-53.04	PASS

Test Graphs





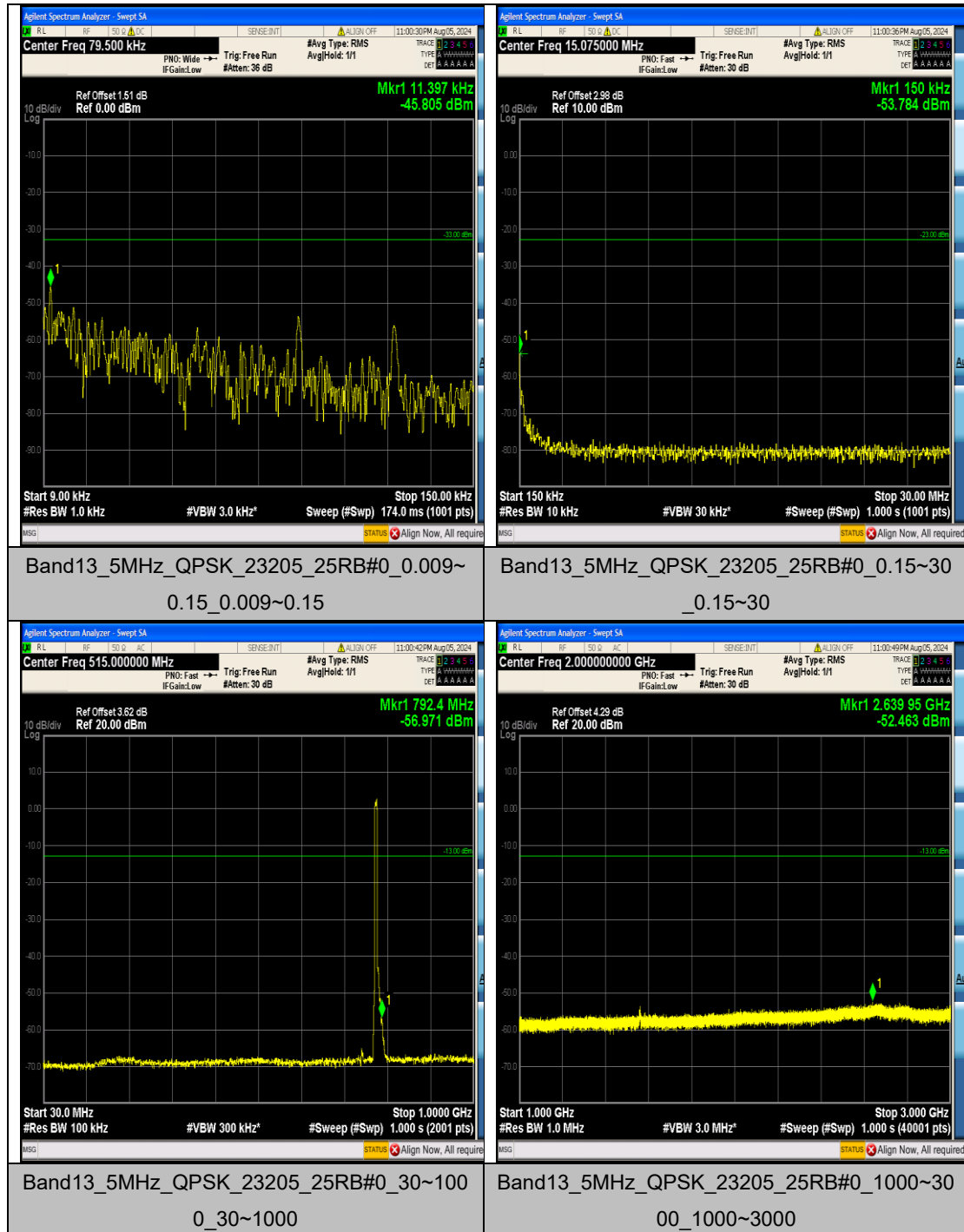
Appendix E: Conducted Spurious Emission

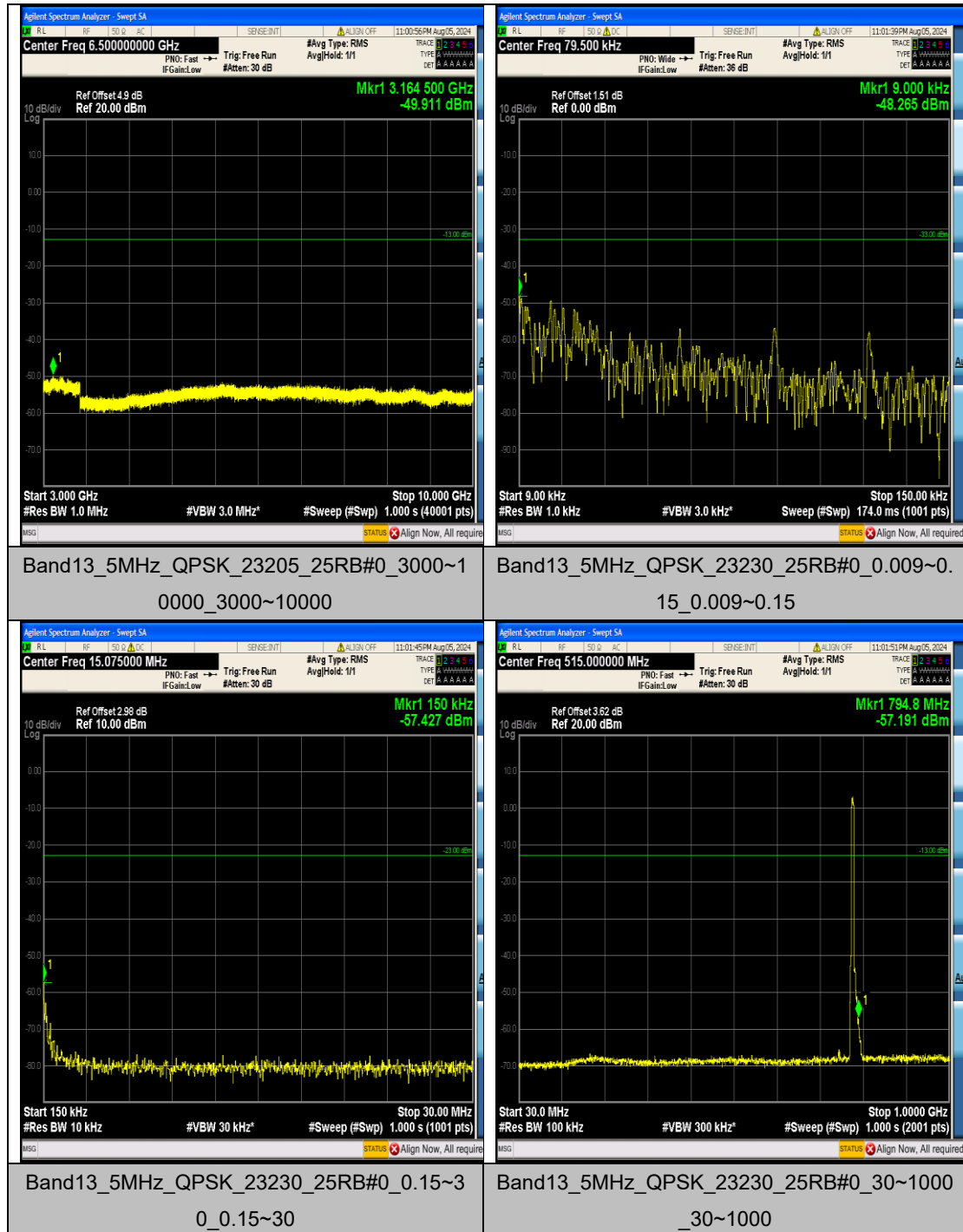
Test Result

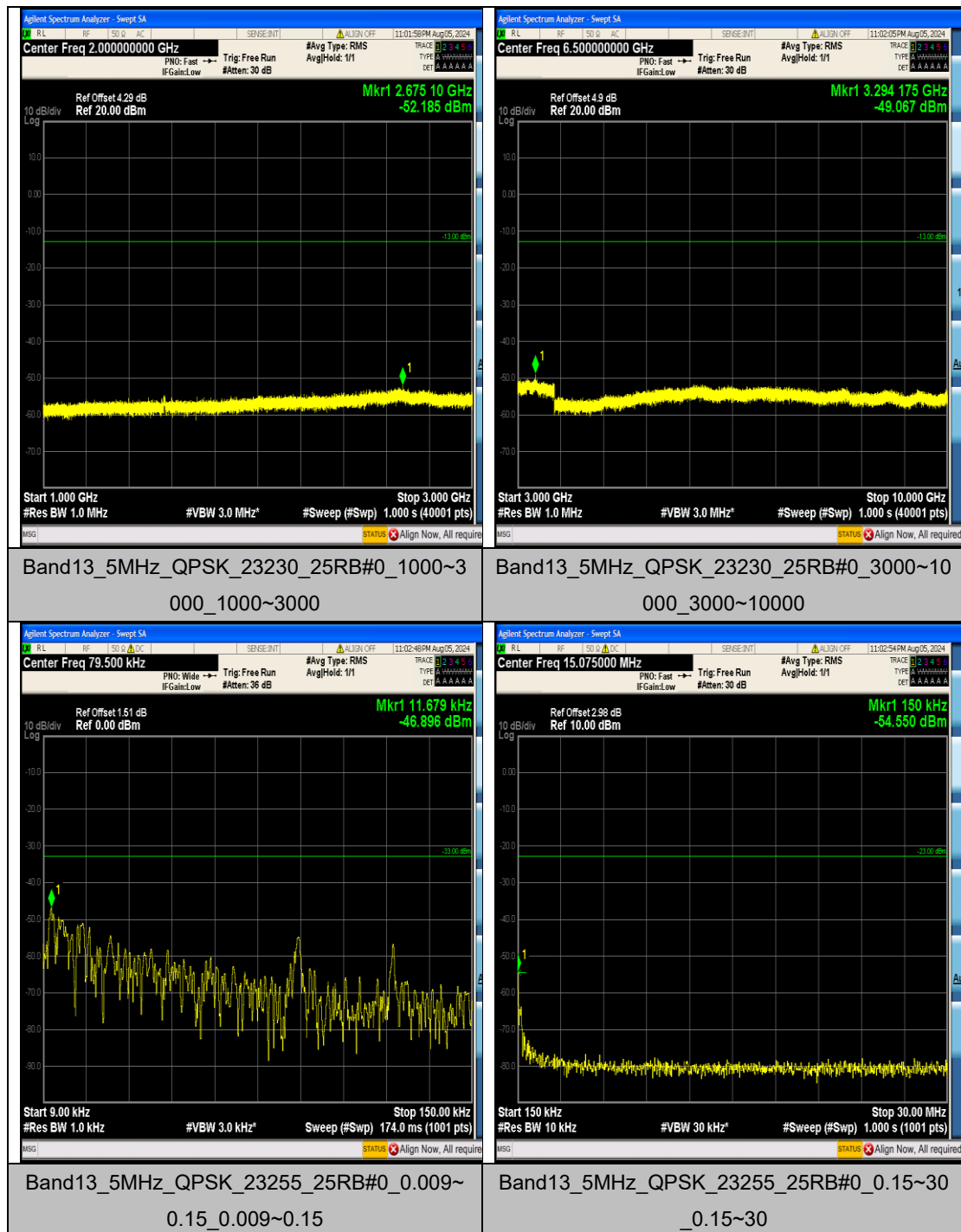
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	0.009~0.15	-45.81	PASS
Band13	5MHz	QPSK	23205	25RB#0	0.15~30	-53.78	PASS
Band13	5MHz	QPSK	23205	25RB#0	30~1000	-56.97	PASS
Band13	5MHz	QPSK	23205	25RB#0	1000~3000	-52.46	PASS
Band13	5MHz	QPSK	23205	25RB#0	3000~10000	-49.91	PASS
Band13	5MHz	QPSK	23230	25RB#0	0.009~0.15	-48.27	PASS
Band13	5MHz	QPSK	23230	25RB#0	0.15~30	-57.43	PASS
Band13	5MHz	QPSK	23230	25RB#0	30~1000	-57.19	PASS
Band13	5MHz	QPSK	23230	25RB#0	1000~3000	-52.19	PASS
Band13	5MHz	QPSK	23230	25RB#0	3000~10000	-49.07	PASS
Band13	5MHz	QPSK	23255	25RB#0	0.009~0.15	-46.90	PASS
Band13	5MHz	QPSK	23255	25RB#0	0.15~30	-54.55	PASS
Band13	5MHz	QPSK	23255	25RB#0	30~1000	-57.42	PASS
Band13	5MHz	QPSK	23255	25RB#0	1000~3000	-52.18	PASS
Band13	5MHz	QPSK	23255	25RB#0	3000~10000	-49.50	PASS
Band13	5MHz	16QAM	23205	25RB#0	0.009~0.15	-48.28	PASS
Band13	5MHz	16QAM	23205	25RB#0	0.15~30	-56.81	PASS
Band13	5MHz	16QAM	23205	25RB#0	30~1000	-58.37	PASS
Band13	5MHz	16QAM	23205	25RB#0	1000~3000	-52.79	PASS
Band13	5MHz	16QAM	23205	25RB#0	3000~10000	-50.21	PASS
Band13	5MHz	16QAM	23230	25RB#0	0.009~0.15	-50.35	PASS
Band13	5MHz	16QAM	23230	25RB#0	0.15~30	-56.35	PASS
Band13	5MHz	16QAM	23230	25RB#0	30~1000	-59.42	PASS
Band13	5MHz	16QAM	23230	25RB#0	1000~3000	-52.65	PASS
Band13	5MHz	16QAM	23230	25RB#0	3000~10000	-49.41	PASS
Band13	5MHz	16QAM	23255	25RB#0	0.009~0.15	-48.90	PASS
Band13	5MHz	16QAM	23255	25RB#0	0.15~30	-55.82	PASS
Band13	5MHz	16QAM	23255	25RB#0	30~1000	-59.74	PASS
Band13	5MHz	16QAM	23255	25RB#0	1000~3000	-51.93	PASS
Band13	5MHz	16QAM	23255	25RB#0	3000~10000	-49.84	PASS
Band13	10MHz	QPSK	23230	50RB#0	0.009~0.15	-49.40	PASS
Band13	10MHz	QPSK	23230	50RB#0	0.15~30	-55.19	PASS
Band13	10MHz	QPSK	23230	50RB#0	30~1000	-66.47	PASS
Band13	10MHz	QPSK	23230	50RB#0	1000~3000	-52.43	PASS
Band13	10MHz	QPSK	23230	50RB#0	3000~10000	-49.75	PASS
Band13	10MHz	16QAM	23230	50RB#0	0.009~0.15	-46.96	PASS

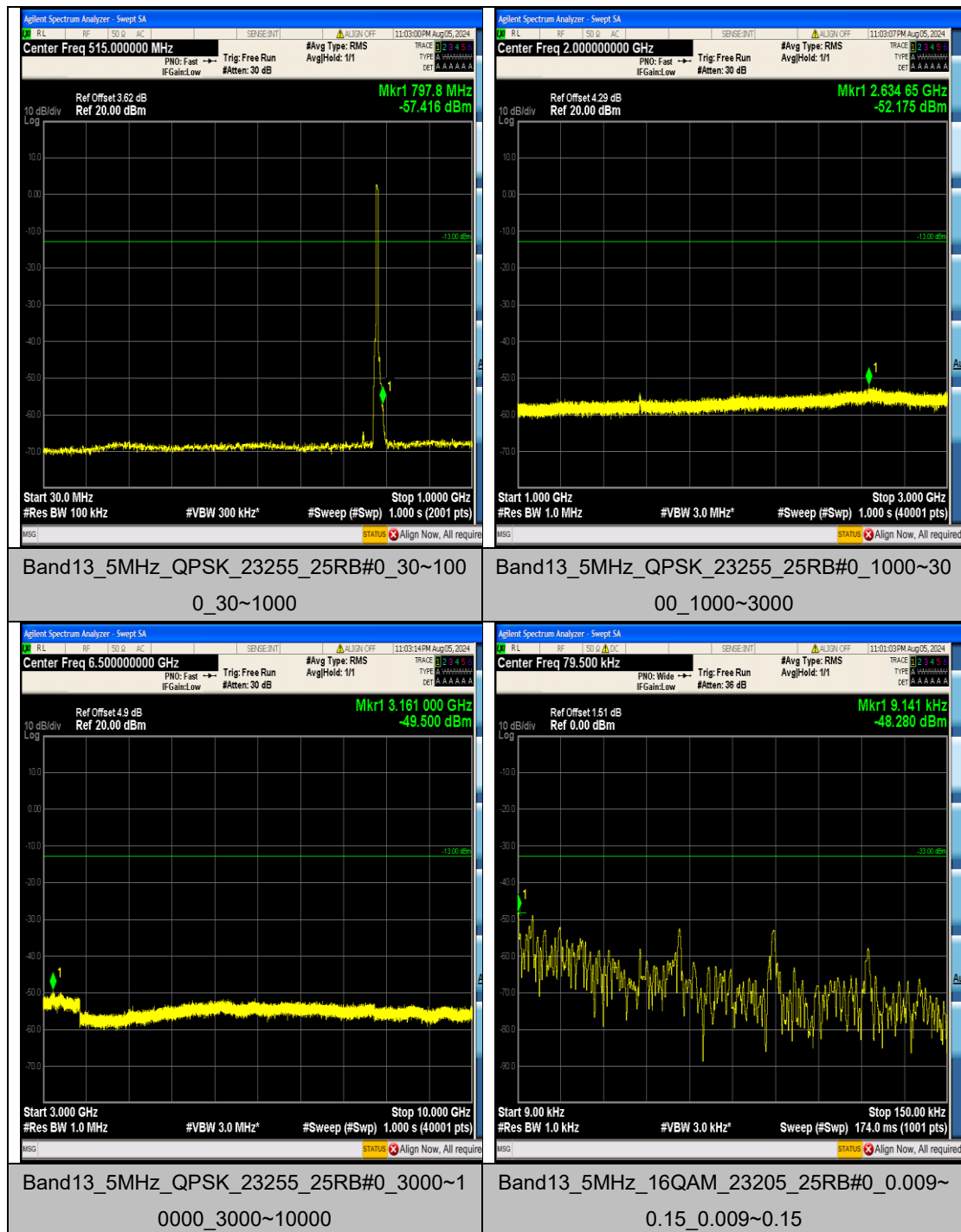
Band13	10MHz	16QAM	23230	50RB#0	0.15~30	-53.38	PASS
Band13	10MHz	16QAM	23230	50RB#0	30~1000	-66.62	PASS
Band13	10MHz	16QAM	23230	50RB#0	1000~3000	-52.21	PASS
Band13	10MHz	16QAM	23230	50RB#0	3000~10000	-49.83	PASS

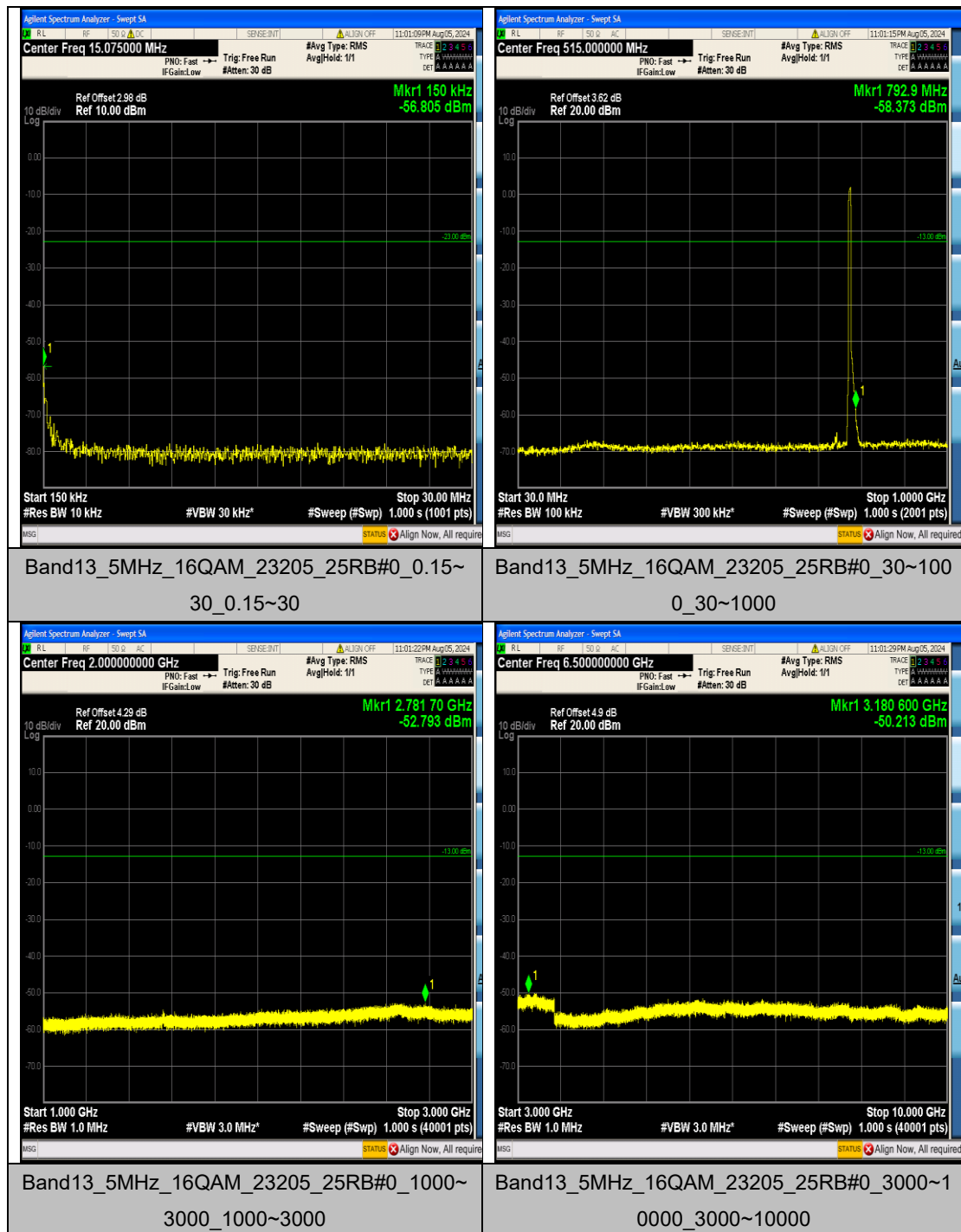
Test Graphs

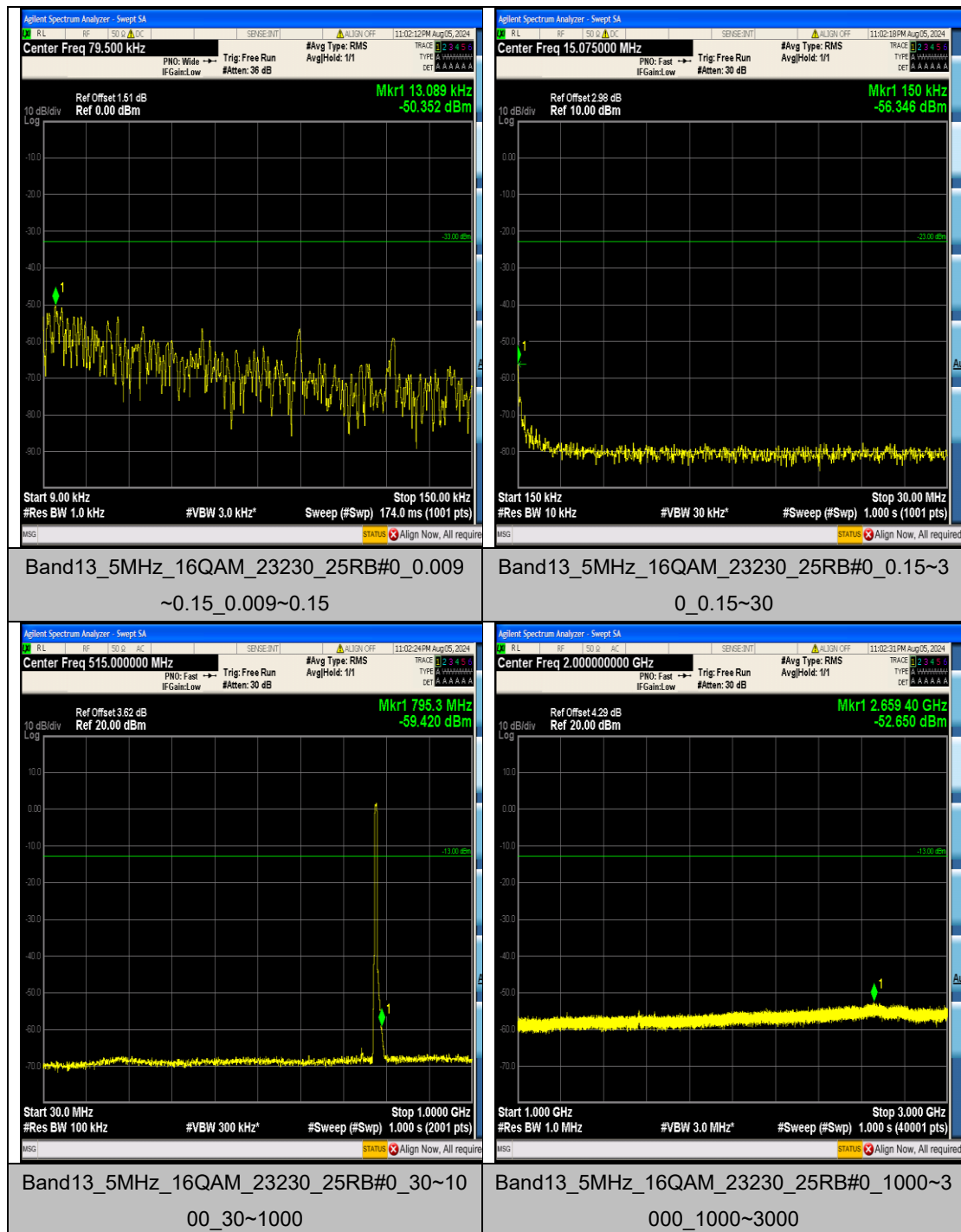


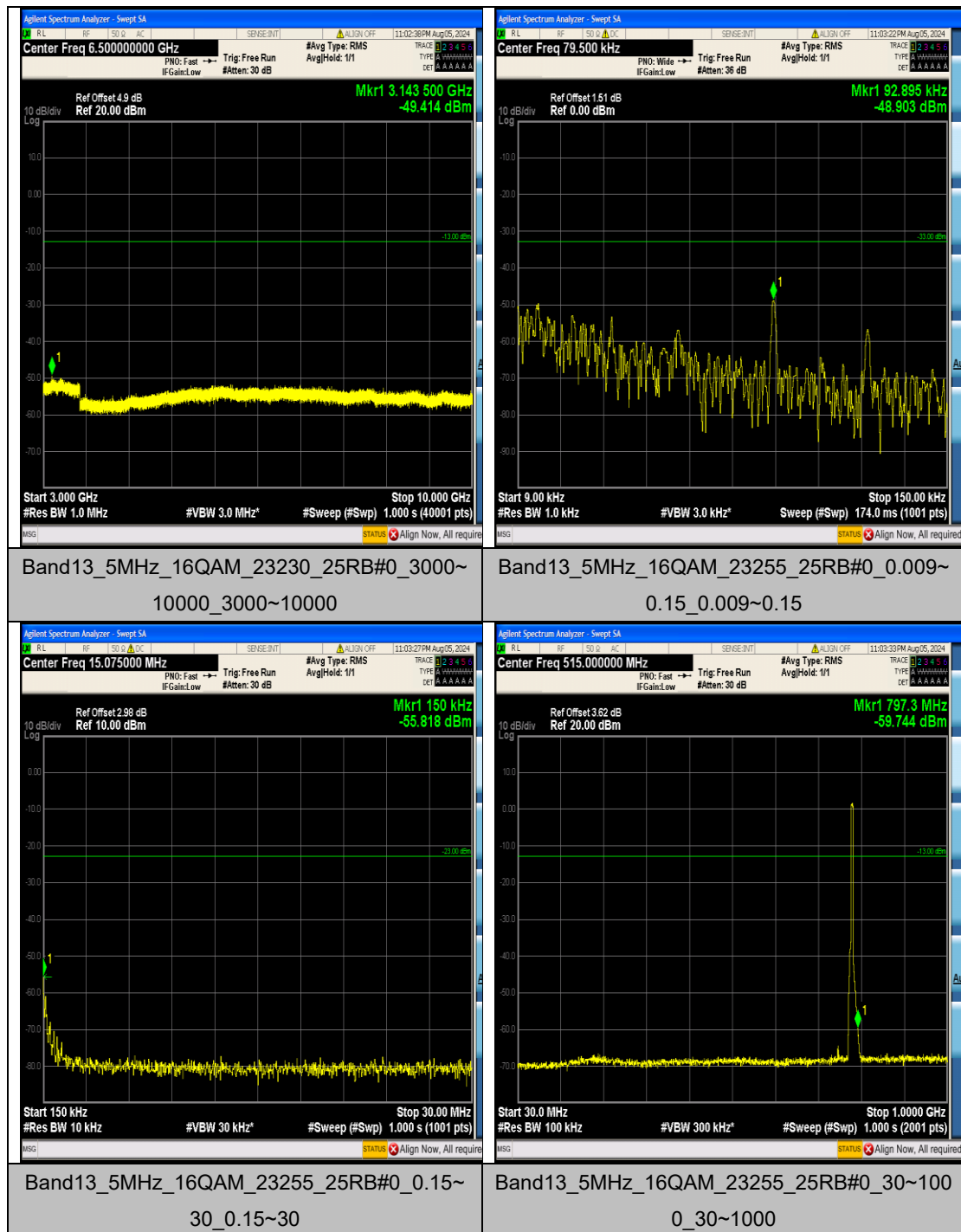


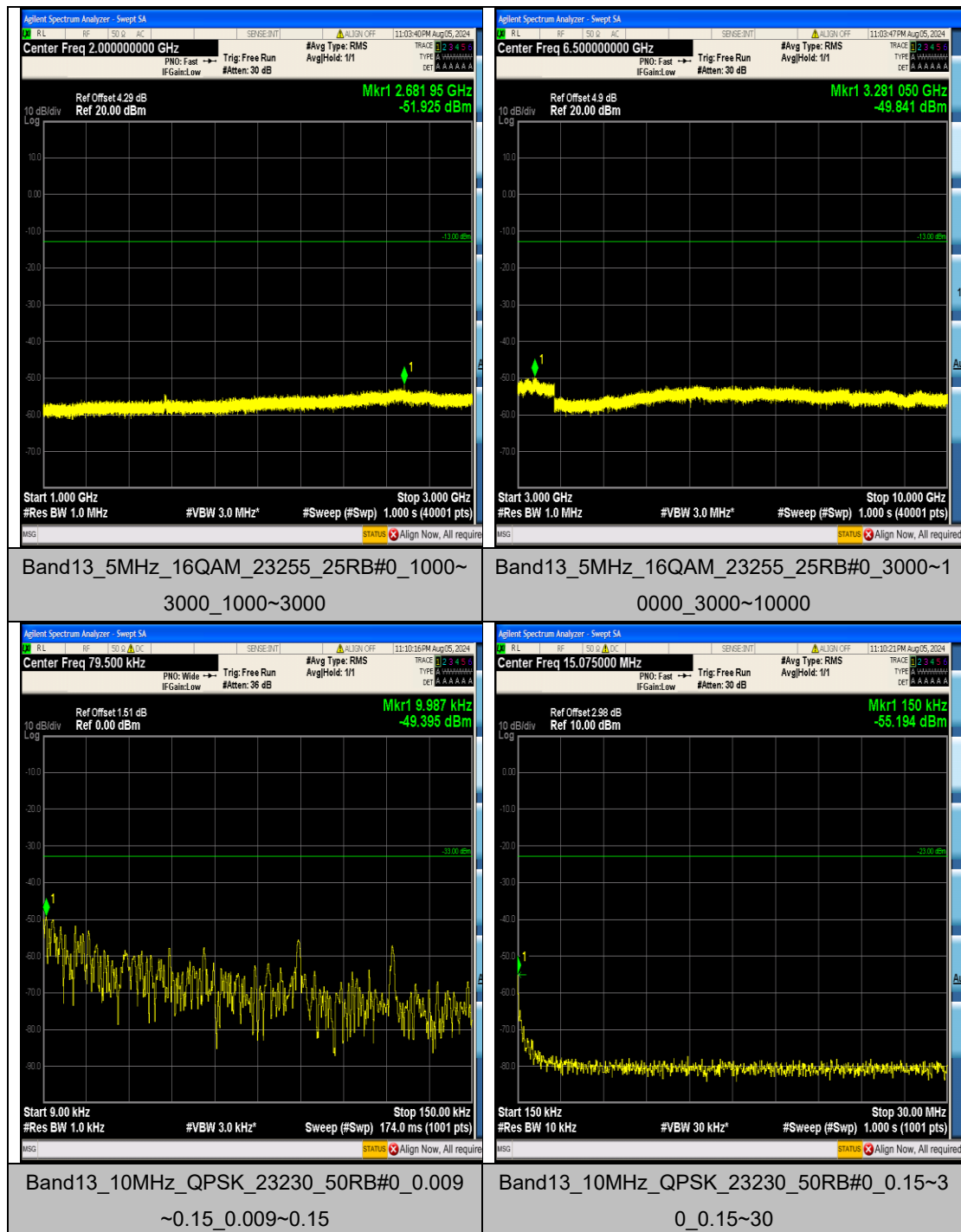


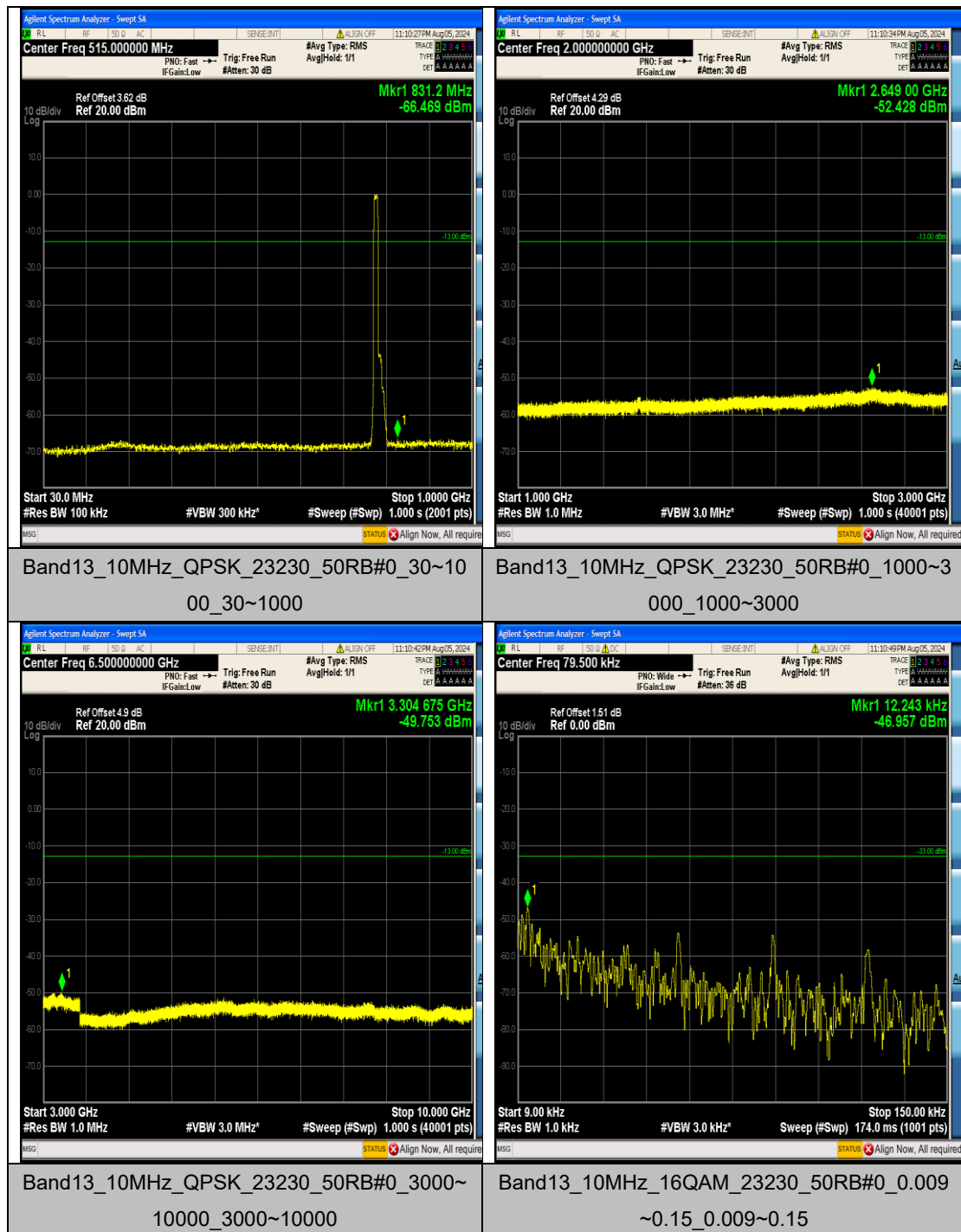


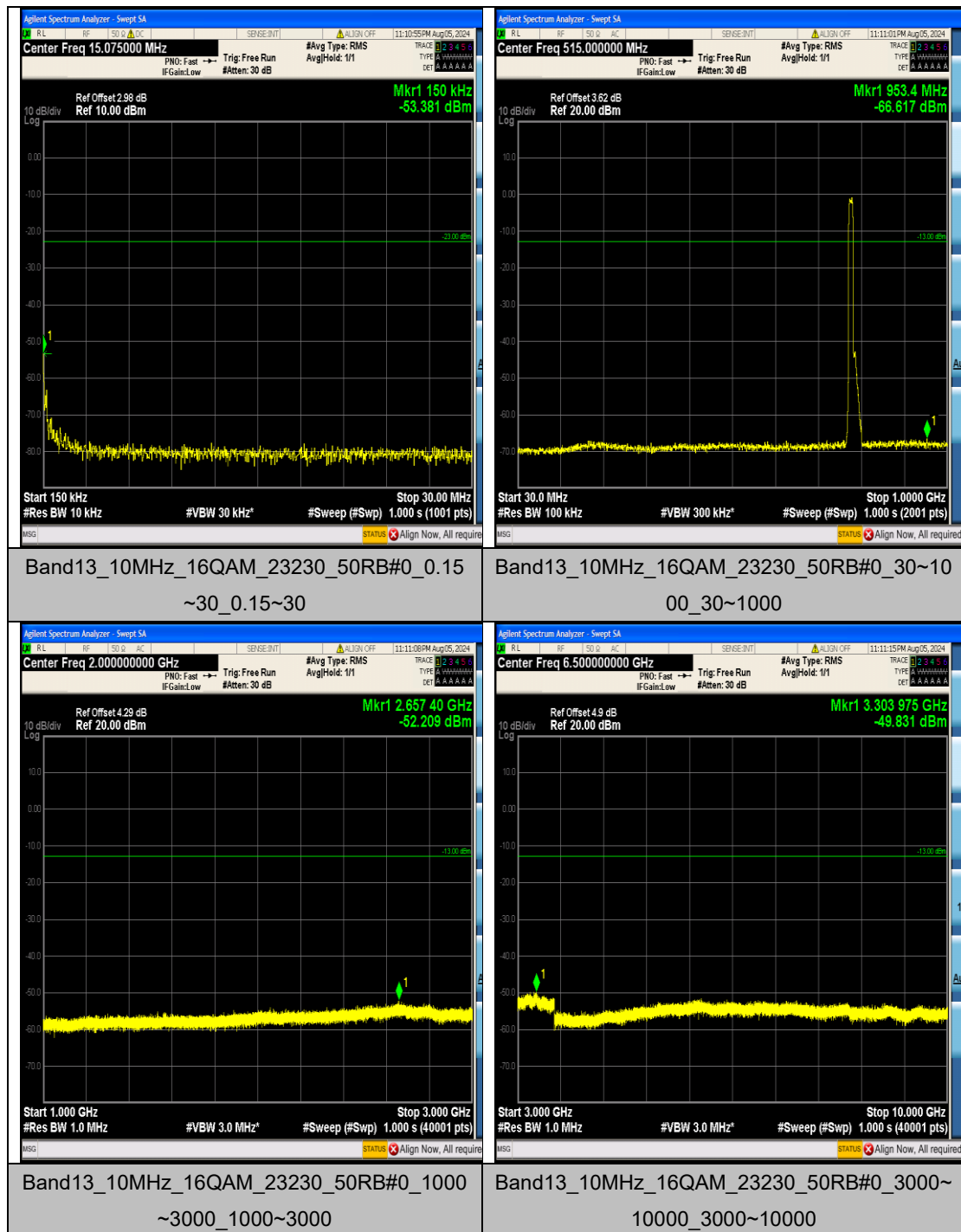












Appendix F: Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
BandName	Bandwidth	Modulation	Channel	RBcfg	VolValue	TempValue	ValueHz	ValuePpm	Limit	Verdict

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	NV	-30	2.79	0.003579	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	-20	2.92	0.003746	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	-10	-2.25	-0.002886	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	0	4.55	0.005837	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	10	-3.65	-0.004682	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	20	-1.76	-0.002258	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	30	-3.33	-0.004272	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	40	-2.23	-0.002861	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	50	3.73	0.004785	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	-30	-2.73	-0.003491	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	-20	-2.88	-0.003683	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	-10	-1.65	-0.002110	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	0	-3.09	-0.003951	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	10	-1.72	-0.002199	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	20	-2.86	-0.003657	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	30	-1.93	-0.002468	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	40	-3.48	-0.004450	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	50	4.76	0.006087	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	-30	-3.16	-0.004028	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	-20	-3.49	-0.004449	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	-10	-3.32	-0.004232	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	0	-5.21	-0.006641	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	10	-3.38	-0.004308	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	20	4.75	0.006055	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	30	-3.10	-0.003952	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	40	-3.39	-0.004321	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	50	-1.32	-0.001683	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	-30	2.45	0.003143	±2.5	PASS

Band13	5MHz	16QAM	23205	25RB#0	NV	-20	-3.02	-0.003874	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	-10	-3.08	-0.003951	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	0	4.05	0.005196	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	10	-3.73	-0.004785	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	20	-3.19	-0.004092	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	30	2.98	0.003823	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	40	4.71	0.006042	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	50	-3.29	-0.004221	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	-30	3.08	0.003939	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	-20	3.88	0.004962	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	-10	3.73	0.004770	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	0	3.59	0.004591	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	10	3.43	0.004386	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	20	-2.90	-0.003708	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	30	2.83	0.003619	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	40	1.99	0.002545	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	50	3.65	0.004668	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	-30	-5.19	-0.006616	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	-20	3.78	0.004818	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	-10	-4.89	-0.006233	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	0	-3.46	-0.004410	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	10	-3.55	-0.004525	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	20	-2.39	-0.003047	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	30	-4.29	-0.005468	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	40	4.56	0.005813	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	50	-4.52	-0.005762	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	2.52	0.003223	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	1.73	0.002212	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	2.29	0.002928	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	3.32	0.004246	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	-2.55	-0.003261	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	4.69	0.005997	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	4.82	0.006164	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	2.65	0.003389	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	2.72	0.003478	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-30	-2.53	-0.003235	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-20	4.29	0.005486	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-10	3.85	0.004923	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	0	3.56	0.004552	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	10	-2.92	-0.003734	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	20	3.03	0.003875	±2.5	PASS

Band13	10MHz	16QAM	23230	50RB#0	NV	30	3.09	0.003951	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	40	4.29	0.005486	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	50	3.05	0.003900	±2.5	PASS