

Appendix for LTE Band 13

Product Name: Tablet

Model No: MDT880

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	23.26	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.17	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.28	PASS
Band13	5MHz	QPSK	23205	12RB#0	22.14	PASS
Band13	5MHz	QPSK	23205	12RB#6	22.14	PASS
Band13	5MHz	QPSK	23205	12RB#13	22.10	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.12	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.12	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.12	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.13	PASS
Band13	5MHz	16QAM	23205	12RB#0	21.15	PASS
Band13	5MHz	16QAM	23205	12RB#6	21.17	PASS
Band13	5MHz	16QAM	23205	12RB#13	21.14	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.18	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.23	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.12	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.25	PASS
Band13	5MHz	QPSK	23230	12RB#0	22.14	PASS
Band13	5MHz	QPSK	23230	12RB#6	22.09	PASS
Band13	5MHz	QPSK	23230	12RB#13	22.10	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.14	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.07	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.23	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.09	PASS
Band13	5MHz	16QAM	23230	12RB#0	21.18	PASS
Band13	5MHz	16QAM	23230	12RB#6	21.12	PASS
Band13	5MHz	16QAM	23230	12RB#13	21.19	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.20	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.21	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.09	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.19	PASS
Band13	5MHz	QPSK	23255	12RB#0	22.10	PASS
Band13	5MHz	QPSK	23255	12RB#6	22.09	PASS
Band13	5MHz	QPSK	23255	12RB#13	22.08	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.13	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.08	PASS

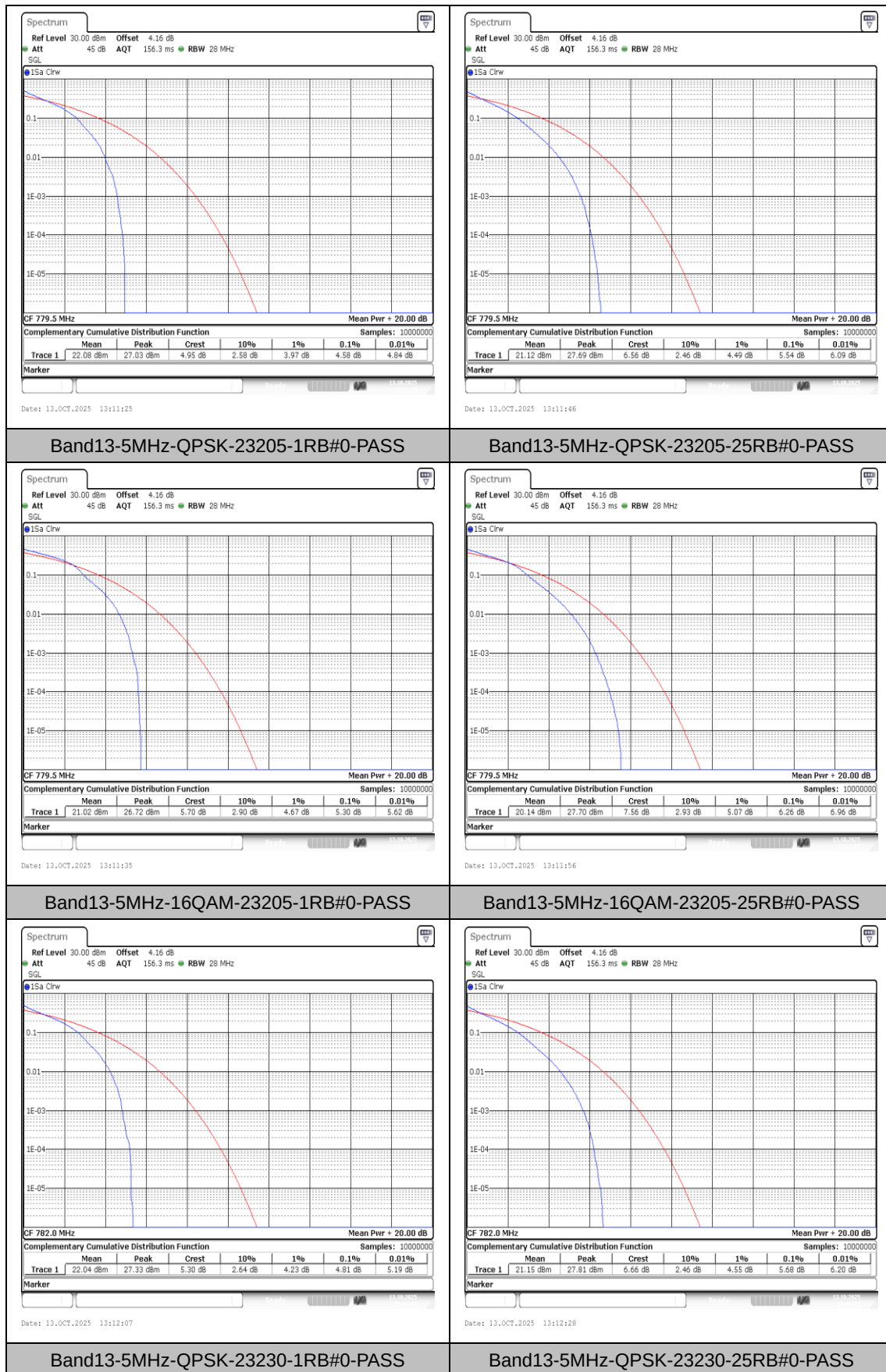
Band13	5MHz	16QAM	23255	1RB#12	22.20	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.02	PASS
Band13	5MHz	16QAM	23255	12RB#0	21.17	PASS
Band13	5MHz	16QAM	23255	12RB#6	21.09	PASS
Band13	5MHz	16QAM	23255	12RB#13	21.16	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.21	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.34	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.18	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.21	PASS
Band13	10MHz	QPSK	23230	25RB#0	22.19	PASS
Band13	10MHz	QPSK	23230	25RB#12	22.15	PASS
Band13	10MHz	QPSK	23230	25RB#25	22.21	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.20	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.22	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.11	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.23	PASS
Band13	10MHz	16QAM	23230	25RB#0	21.16	PASS
Band13	10MHz	16QAM	23230	25RB#12	21.16	PASS
Band13	10MHz	16QAM	23230	25RB#25	21.20	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.19	PASS

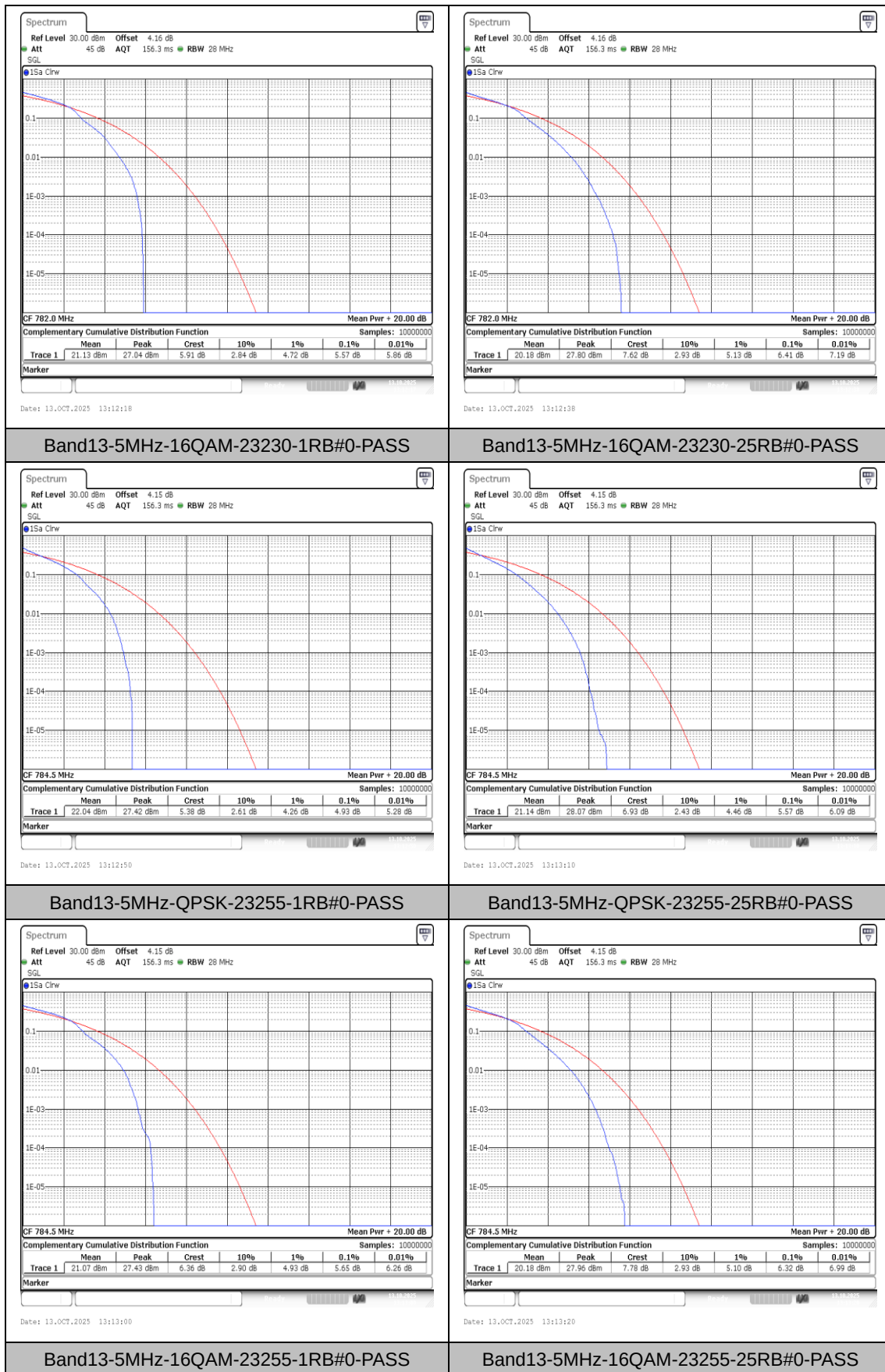
Appendix B: Peak-to-Average Ratio(CCDF)

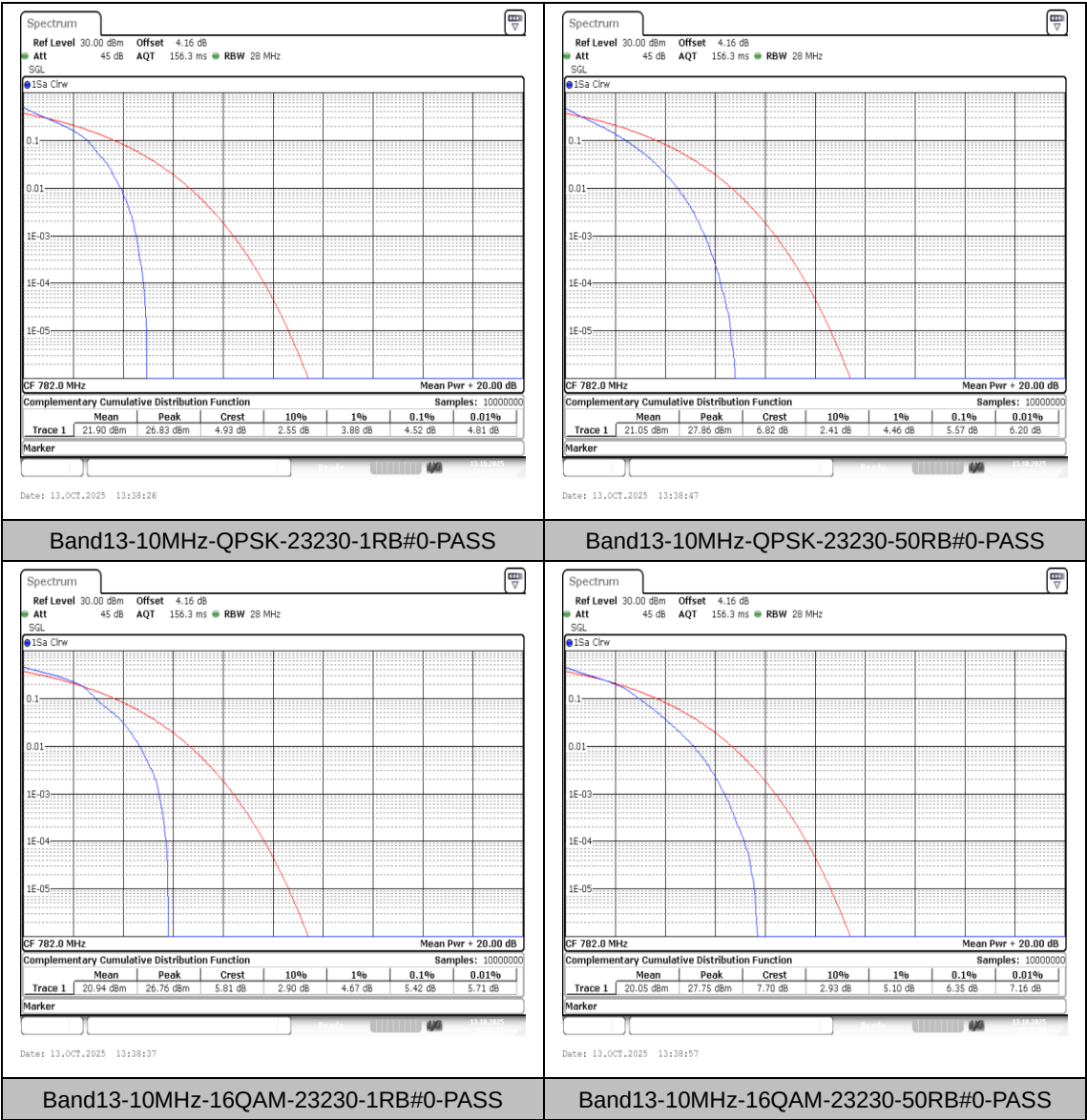
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	4.58	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	5.54	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	5.30	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	6.26	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	4.81	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.68	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	5.57	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	6.41	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	4.93	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	5.57	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	5.65	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	6.32	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	4.52	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.57	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	5.42	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.35	13	PASS

Test Graphs





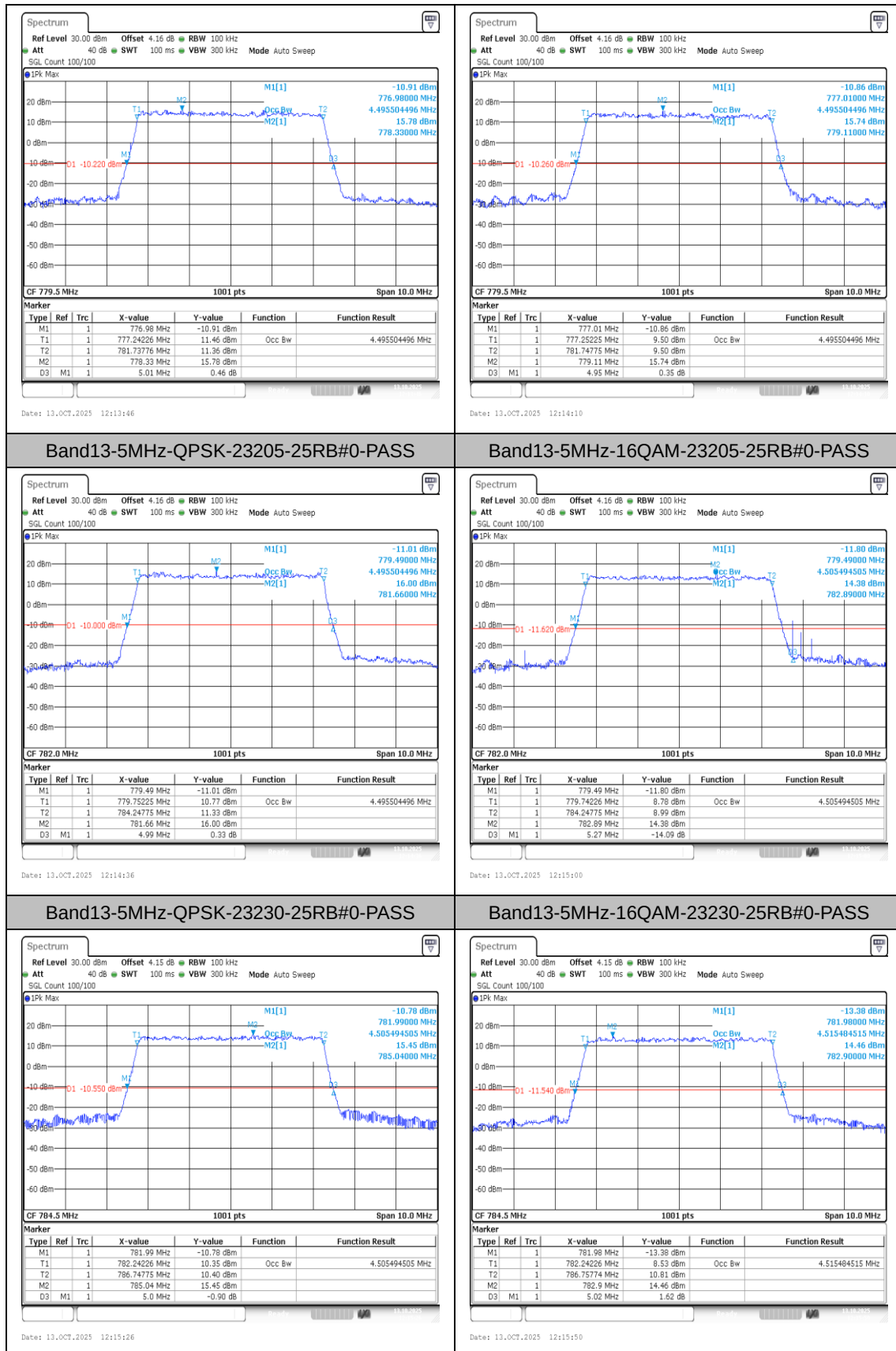


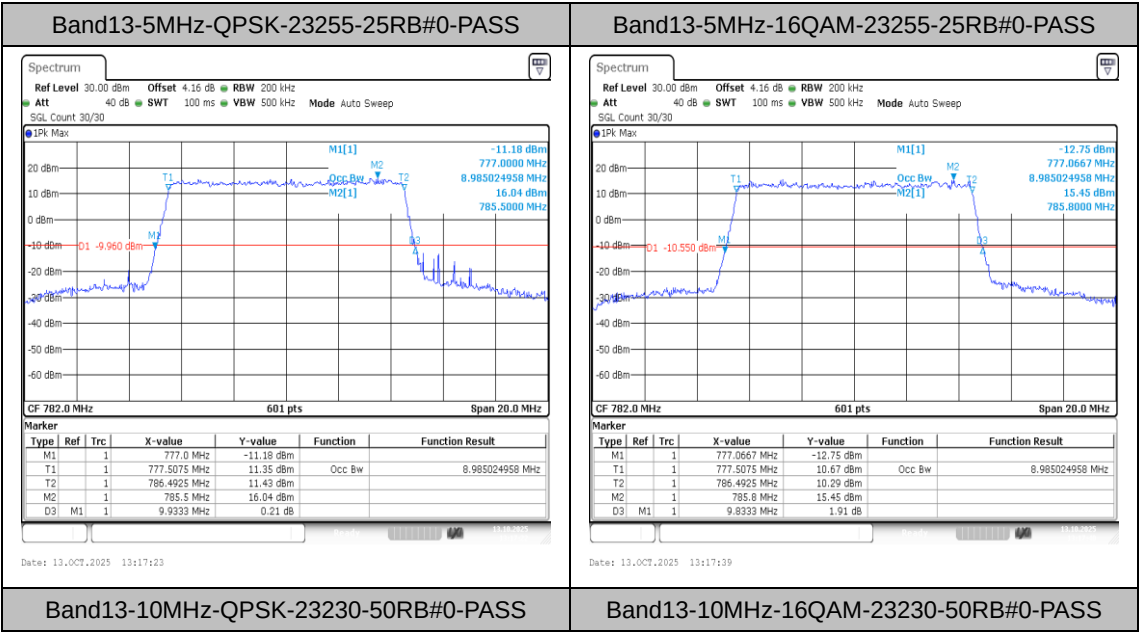
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.496	5.01	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.496	4.95	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.496	4.99	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.505	5.27	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.505	5.00	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.515	5.02	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.985	9.93	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.985	9.83	PASS

Test Graphs



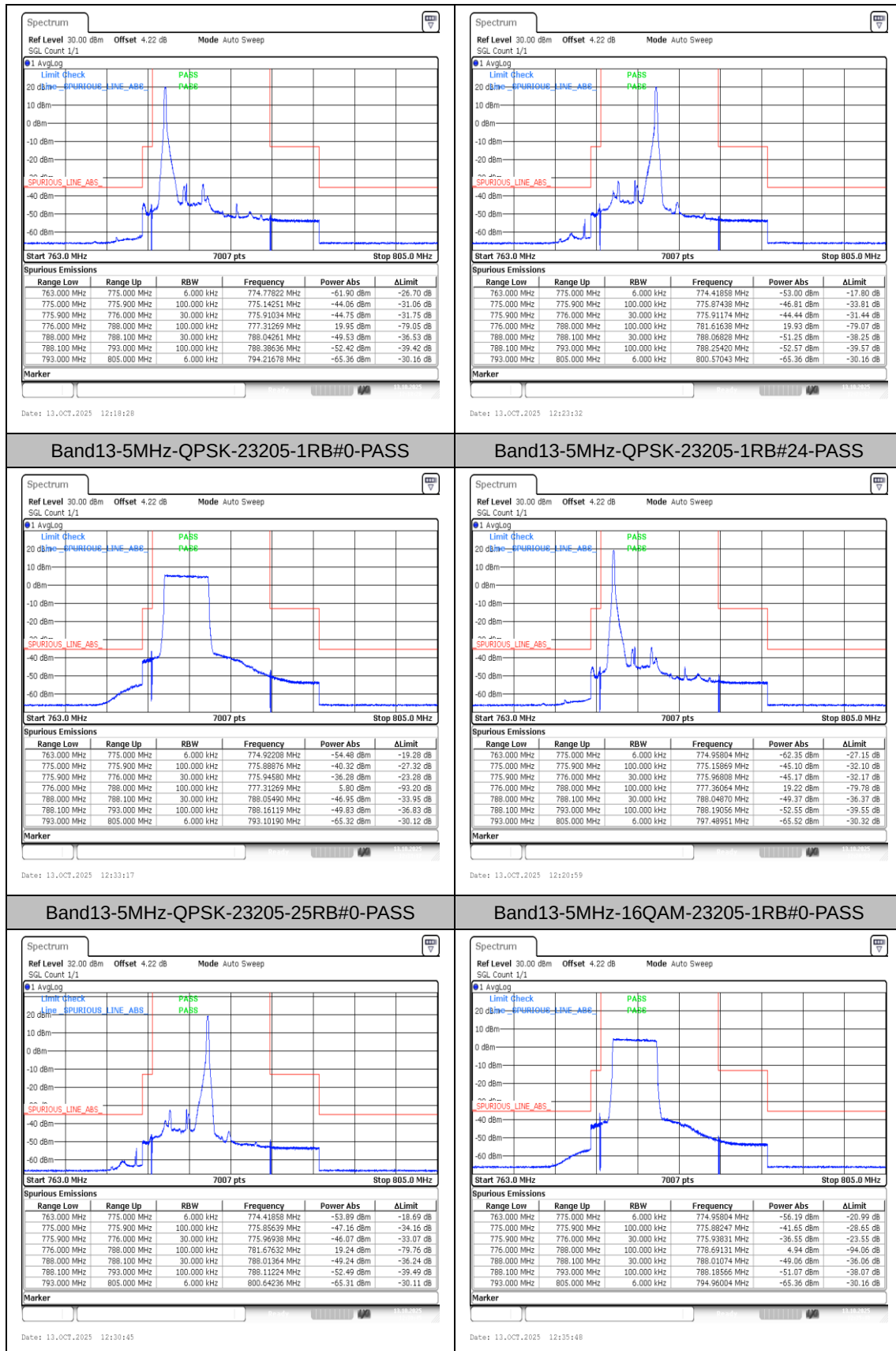


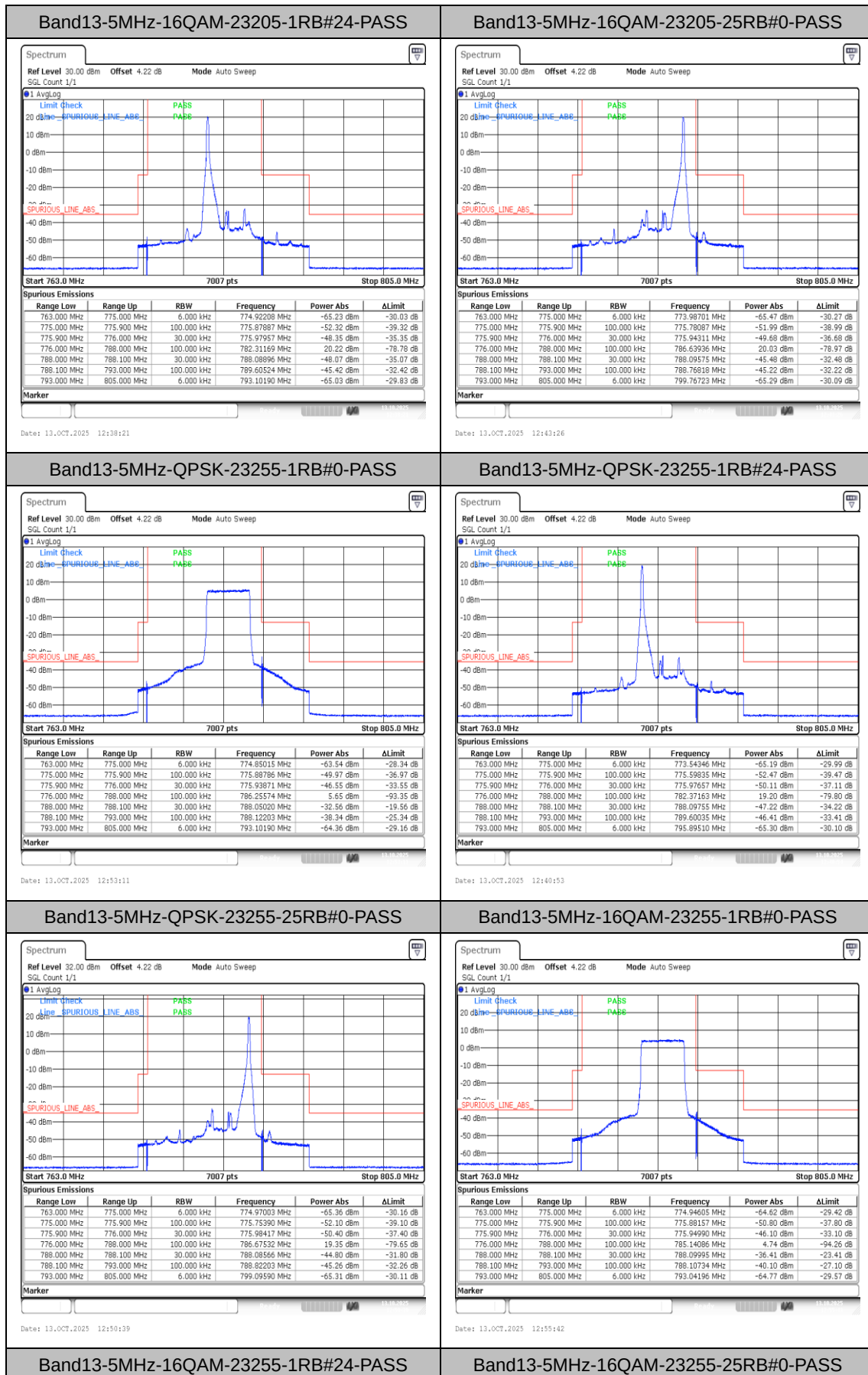
Appendix D: Band Edge

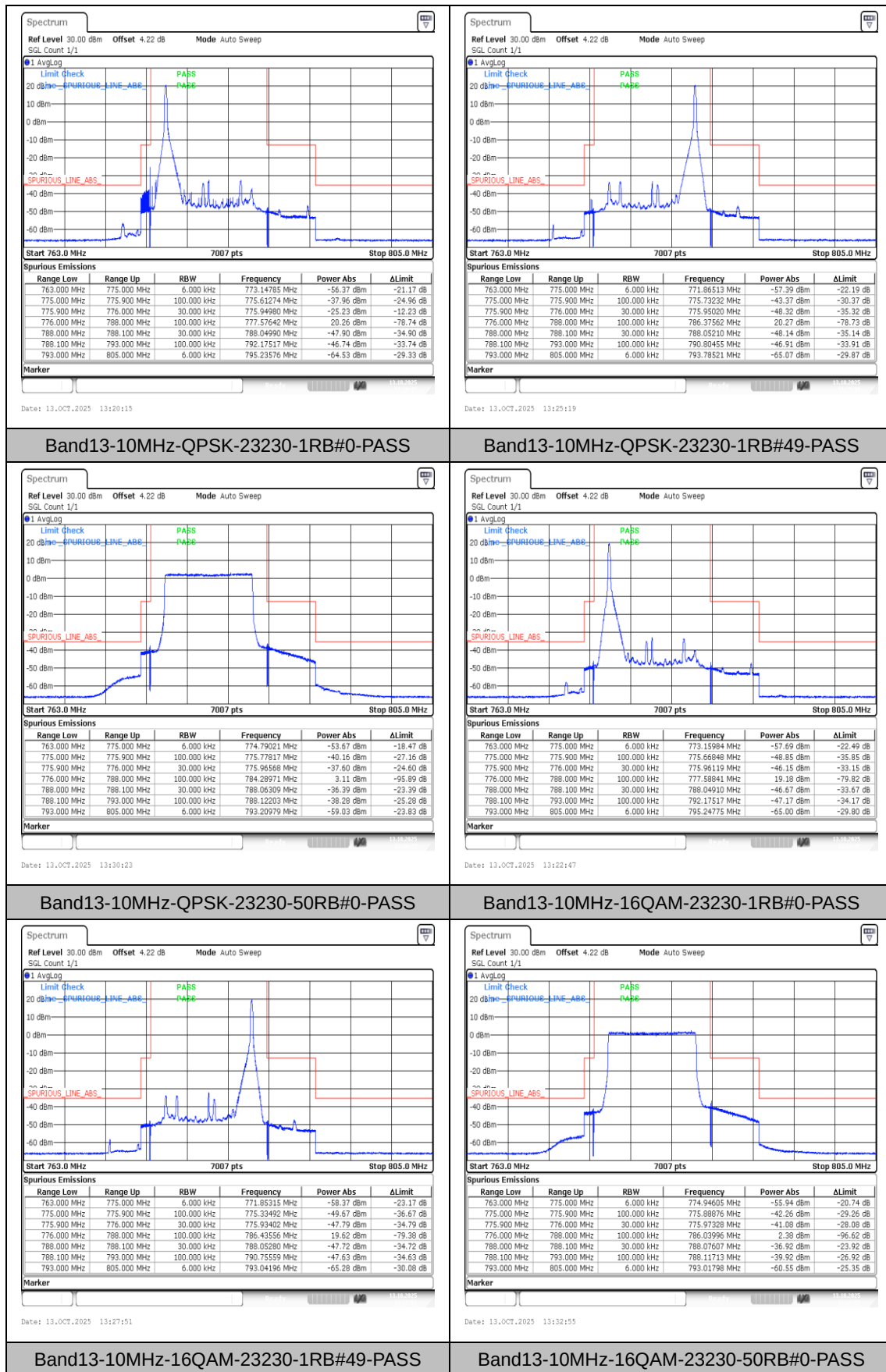
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	-61.90	PASS
Band13	5MHz	QPSK	23205	1RB#24	-53.00	PASS
Band13	5MHz	QPSK	23205	25RB#0	-54.48	PASS
Band13	5MHz	16QAM	23205	1RB#0	-62.35	PASS
Band13	5MHz	16QAM	23205	1RB#24	-53.89	PASS
Band13	5MHz	16QAM	23205	25RB#0	-56.19	PASS
Band13	5MHz	QPSK	23255	1RB#0	-65.03	PASS
Band13	5MHz	QPSK	23255	1RB#24	-65.29	PASS
Band13	5MHz	QPSK	23255	25RB#0	-32.56	PASS
Band13	5MHz	16QAM	23255	1RB#0	-65.19	PASS
Band13	5MHz	16QAM	23255	1RB#24	-65.31	PASS
Band13	5MHz	16QAM	23255	25RB#0	-36.41	PASS
Band13	10MHz	QPSK	23230	1RB#0	-25.23	PASS
Band13	10MHz	QPSK	23230	1RB#49	-57.39	PASS
Band13	10MHz	QPSK	23230	50RB#0	-53.67	PASS
Band13	10MHz	16QAM	23230	1RB#0	-57.69	PASS
Band13	10MHz	16QAM	23230	1RB#49	-58.37	PASS
Band13	10MHz	16QAM	23230	50RB#0	-55.94	PASS

Test Graphs







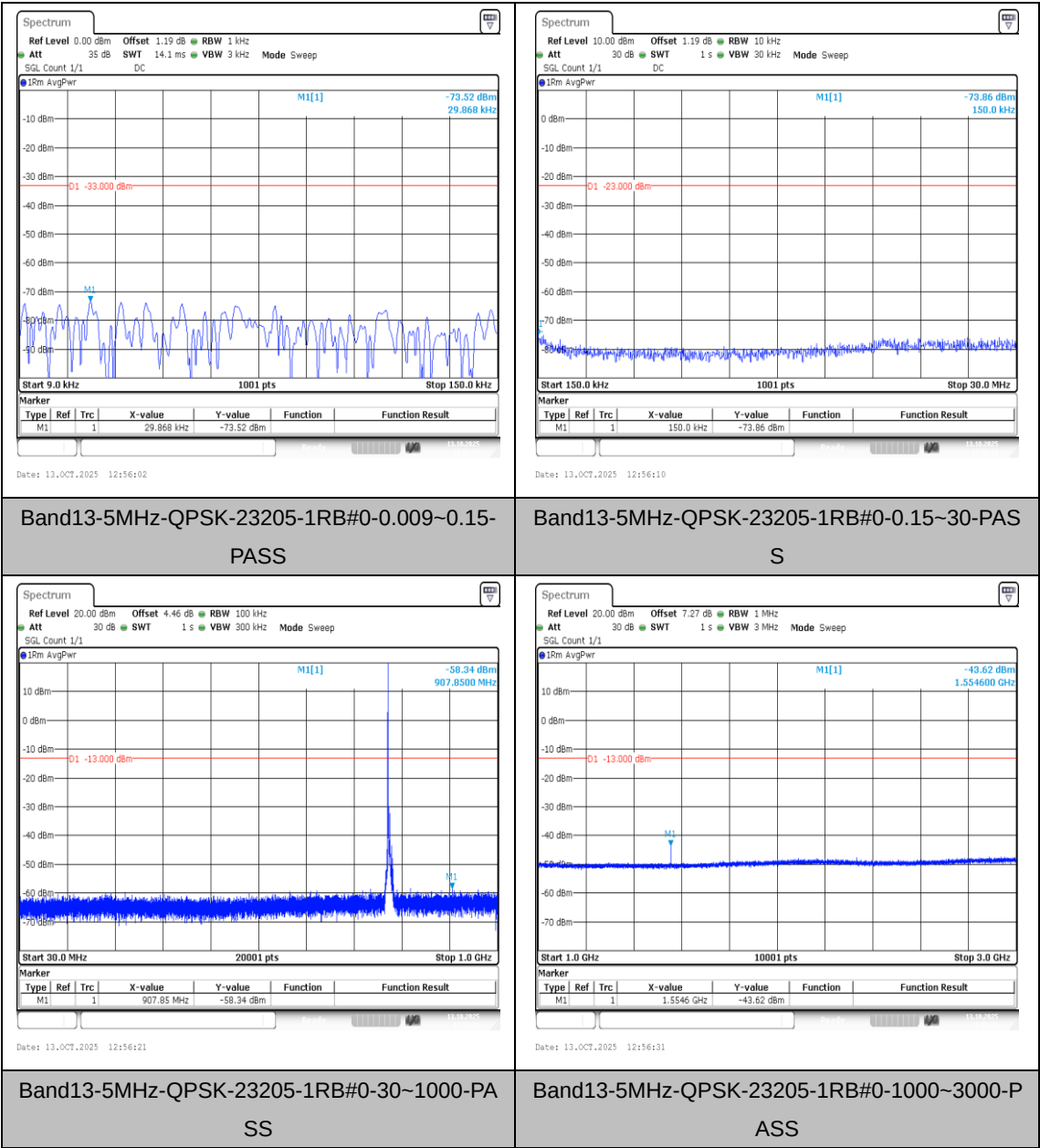
Appendix E: Conducted Spurious Emission

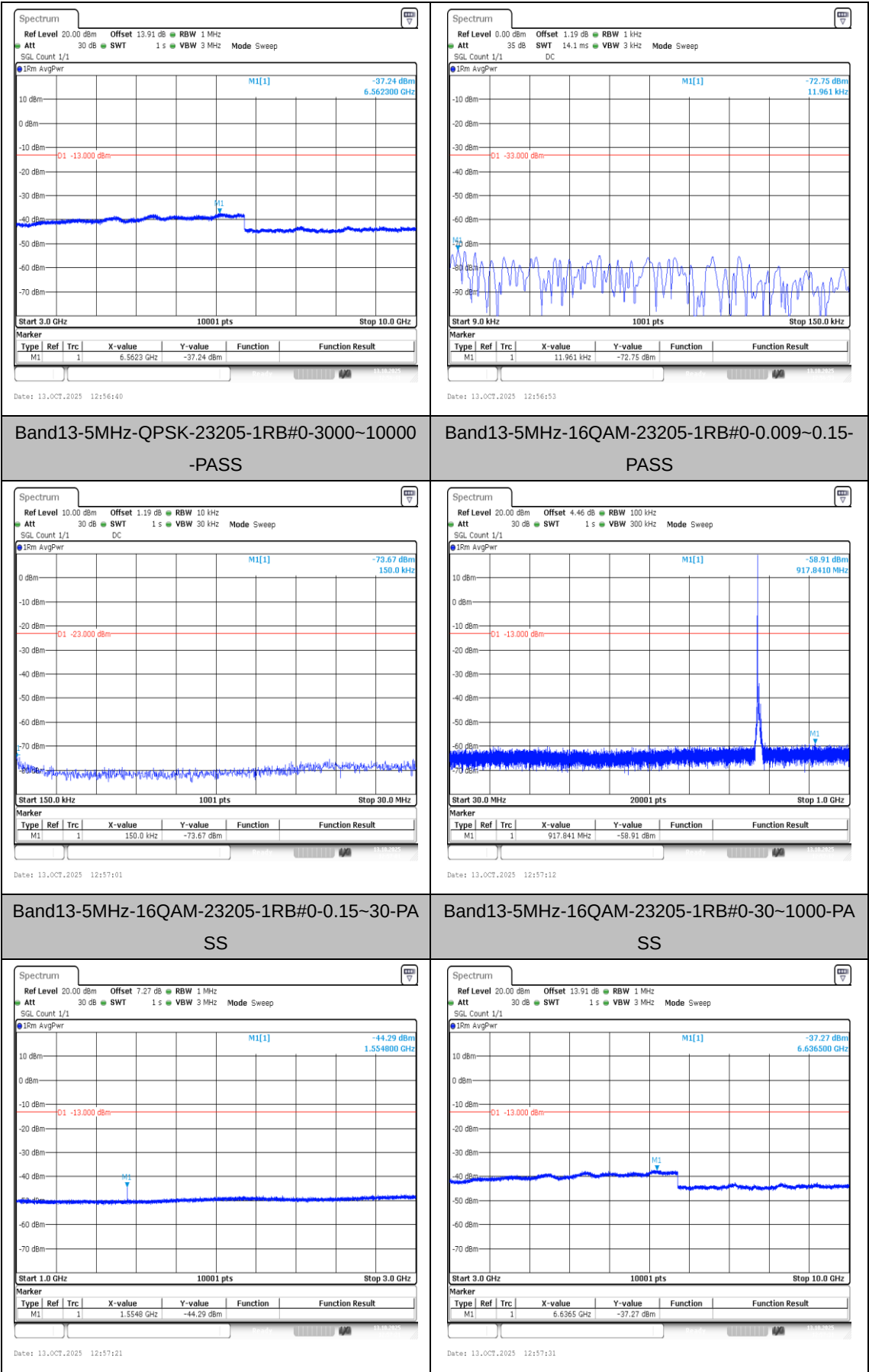
Test Result

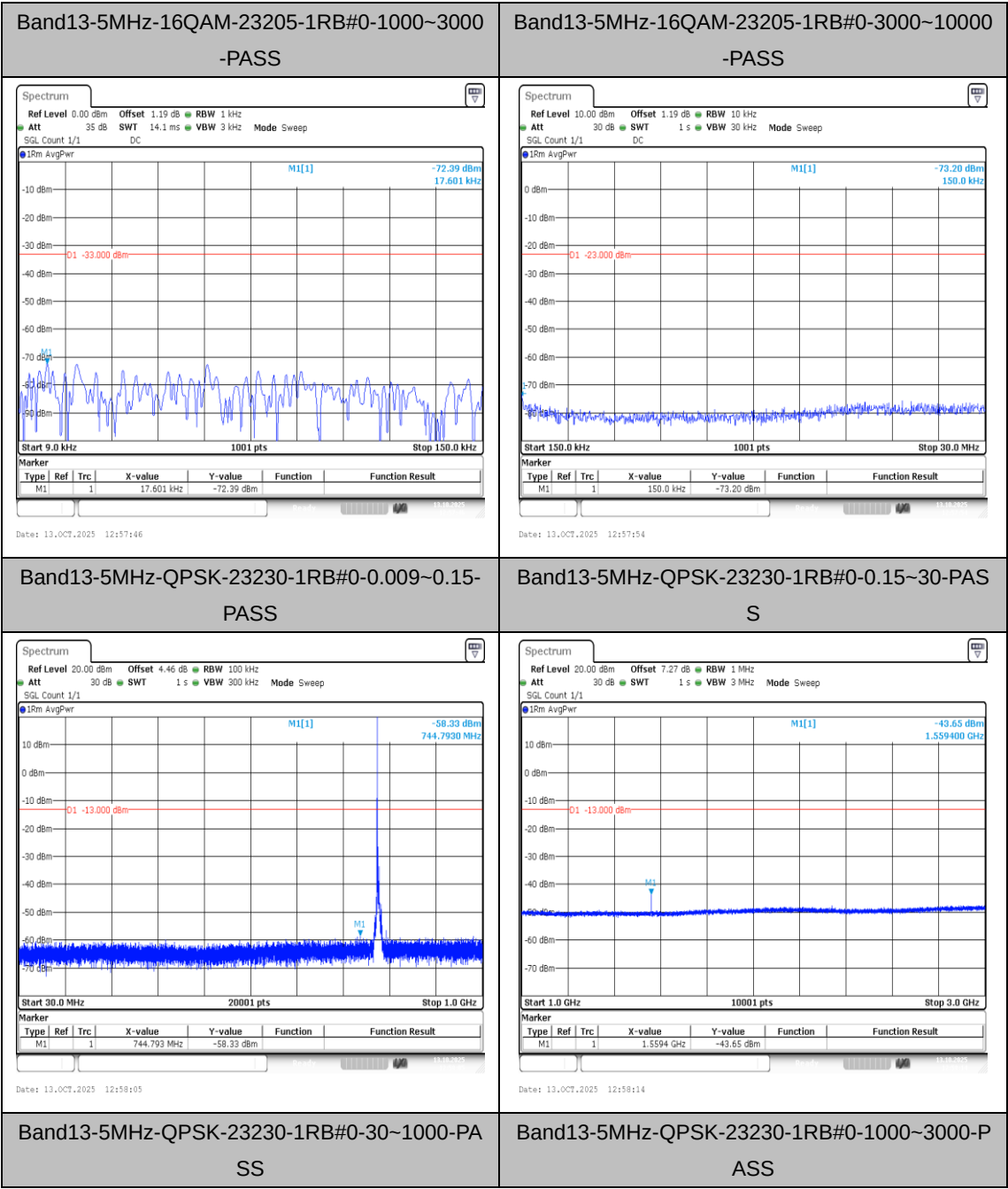
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Verdict
Band13	5MHz	QPSK	23205	1RB#0	0.009~0.15	PASS
Band13	5MHz	QPSK	23205	1RB#0	0.15~30	PASS
Band13	5MHz	QPSK	23205	1RB#0	30~1000	PASS
Band13	5MHz	QPSK	23205	1RB#0	1000~3000	PASS
Band13	5MHz	QPSK	23205	1RB#0	3000~10000	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.009~0.15	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.15~30	PASS
Band13	5MHz	16QAM	23205	1RB#0	30~1000	PASS
Band13	5MHz	16QAM	23205	1RB#0	1000~3000	PASS
Band13	5MHz	16QAM	23205	1RB#0	3000~10000	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.009~0.15	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.15~30	PASS
Band13	5MHz	QPSK	23230	1RB#0	30~1000	PASS
Band13	5MHz	QPSK	23230	1RB#0	1000~3000	PASS
Band13	5MHz	QPSK	23230	1RB#0	3000~10000	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.009~0.15	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.15~30	PASS
Band13	5MHz	16QAM	23230	1RB#0	30~1000	PASS
Band13	5MHz	16QAM	23230	1RB#0	1000~3000	PASS
Band13	5MHz	16QAM	23230	1RB#0	3000~10000	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.009~0.15	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.15~30	PASS
Band13	5MHz	QPSK	23255	1RB#0	30~1000	PASS
Band13	5MHz	QPSK	23255	1RB#0	1000~3000	PASS
Band13	5MHz	QPSK	23255	1RB#0	3000~10000	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.009~0.15	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.15~30	PASS
Band13	5MHz	16QAM	23255	1RB#0	30~1000	PASS
Band13	5MHz	16QAM	23255	1RB#0	1000~3000	PASS
Band13	5MHz	16QAM	23255	1RB#0	3000~10000	PASS
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
Band13	10MHz	QPSK	23230	1RB#0	3000~10000	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.009~0.15	PASS

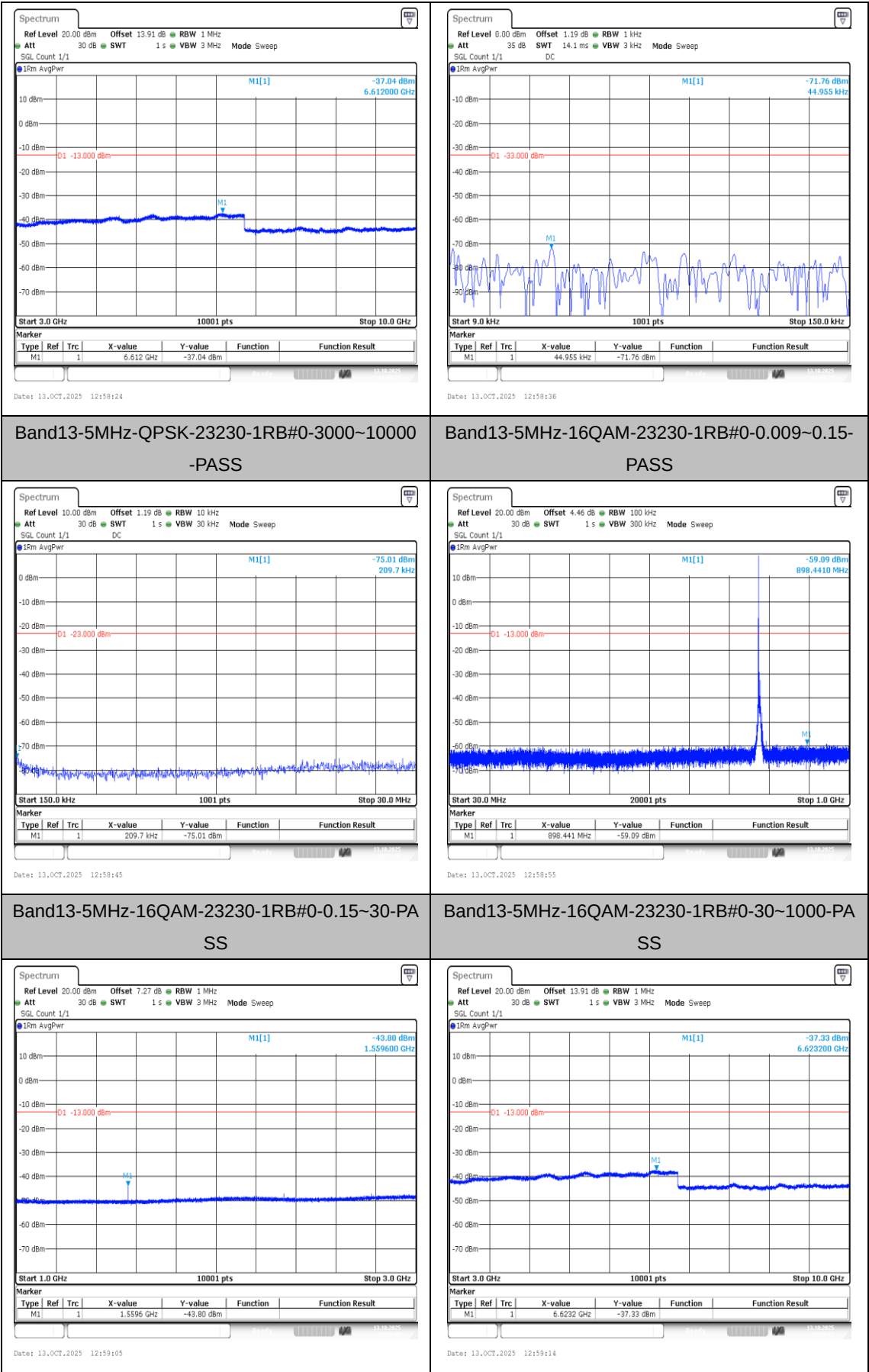
Band13	10MHz	16QAM	23230	1RB#0	0.15~30	PASS
Band13	10MHz	16QAM	23230	1RB#0	30~1000	PASS
Band13	10MHz	16QAM	23230	1RB#0	1000~3000	PASS
Band13	10MHz	16QAM	23230	1RB#0	3000~10000	PASS

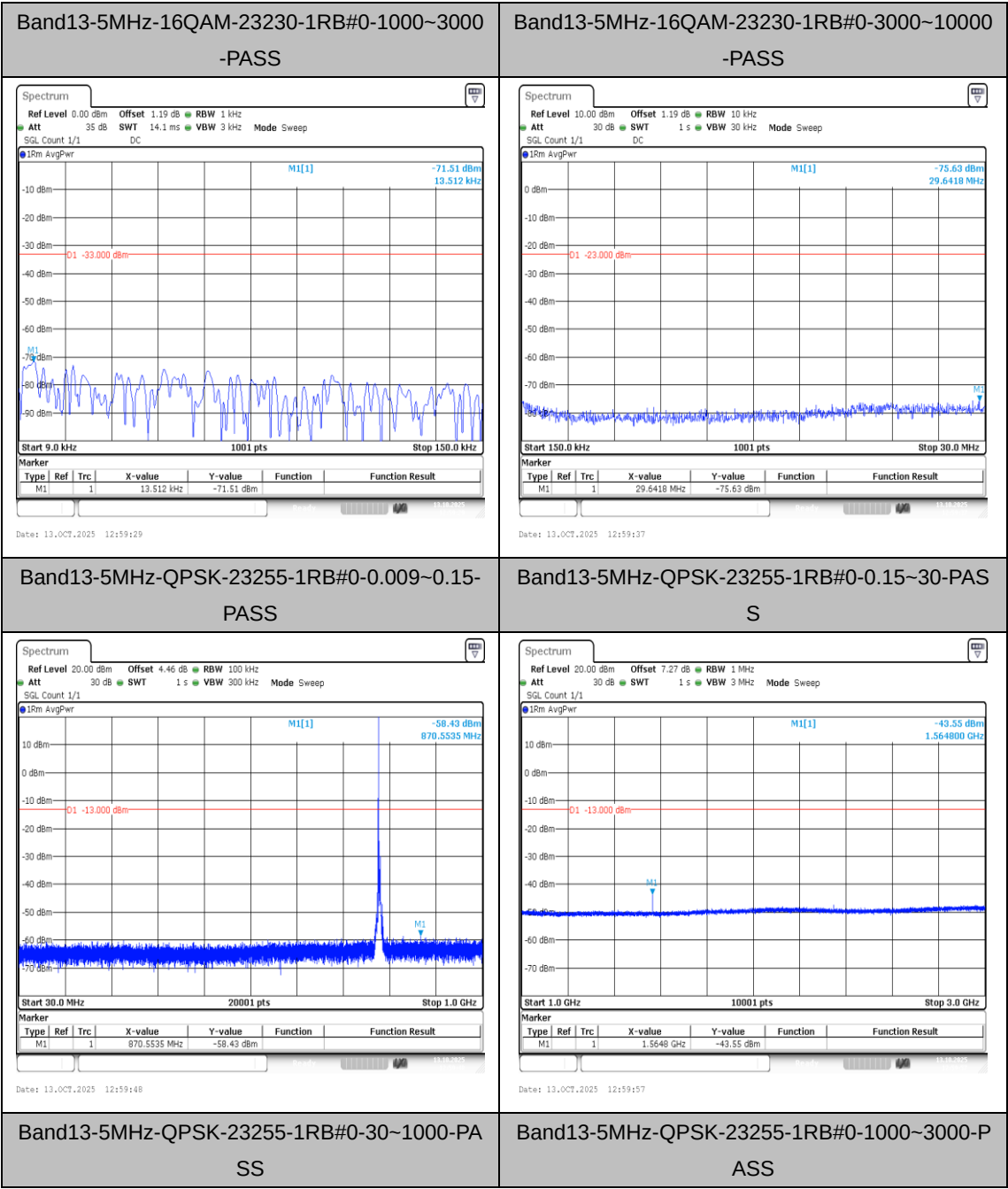
Test Graphs

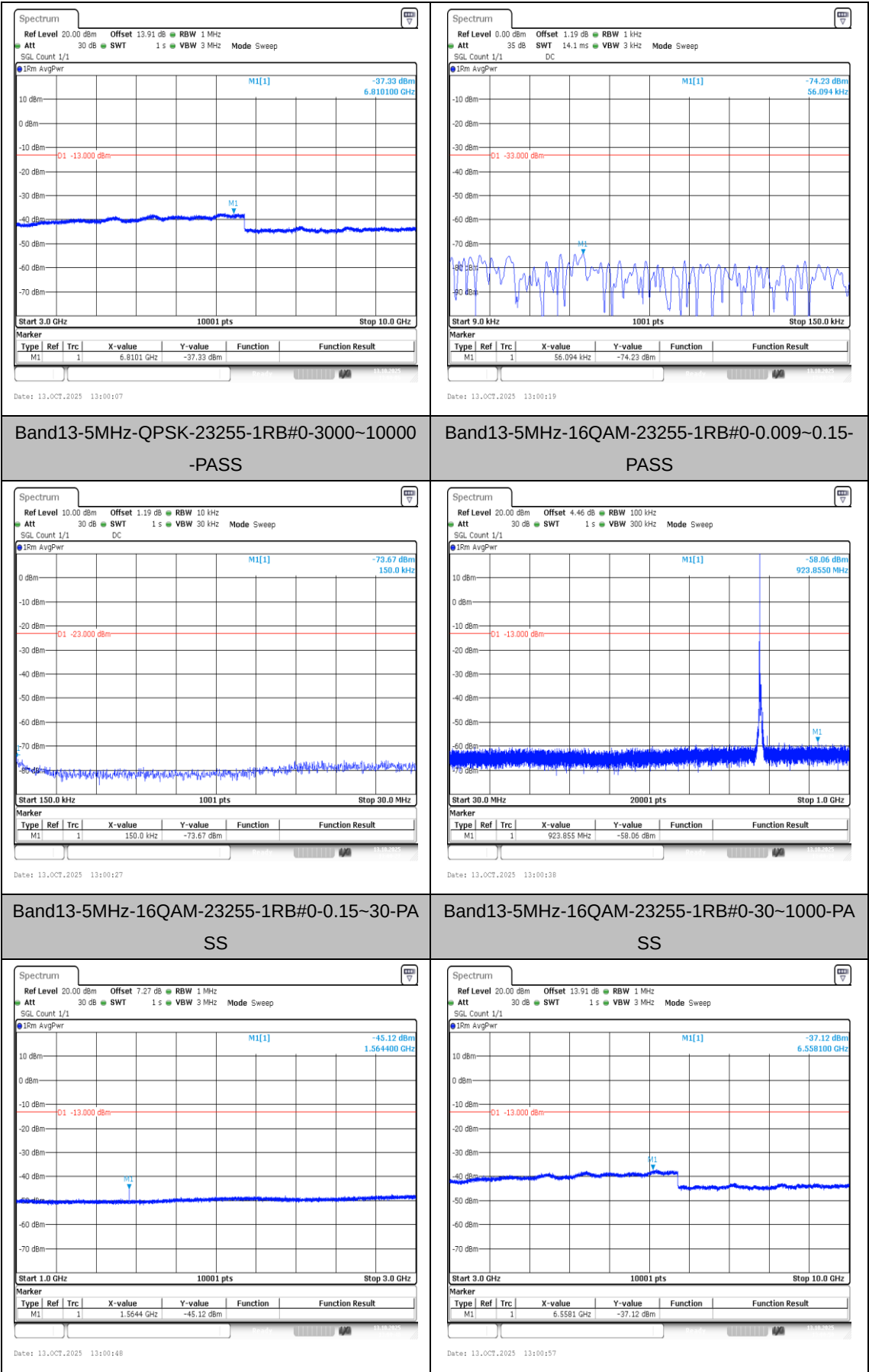


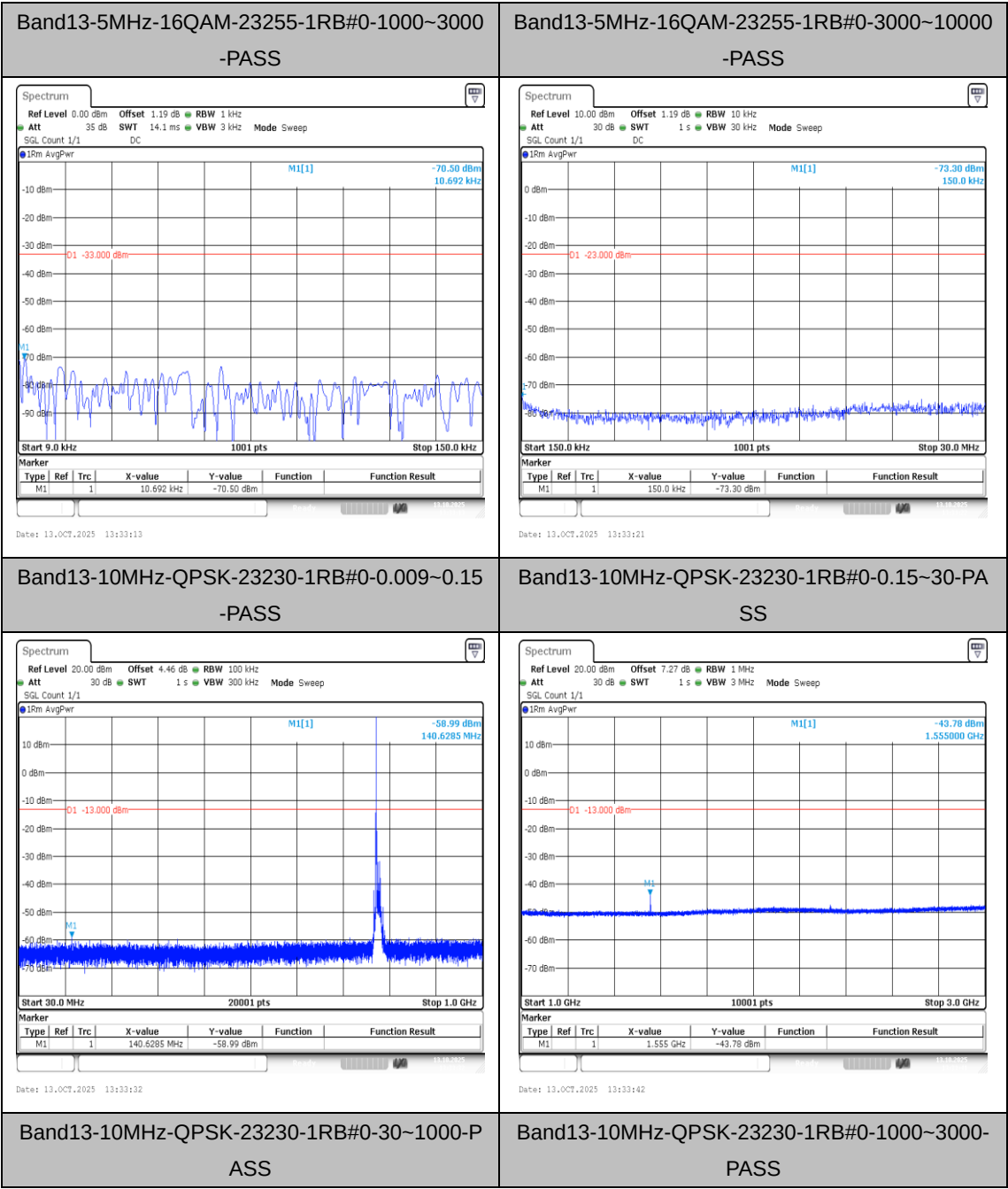


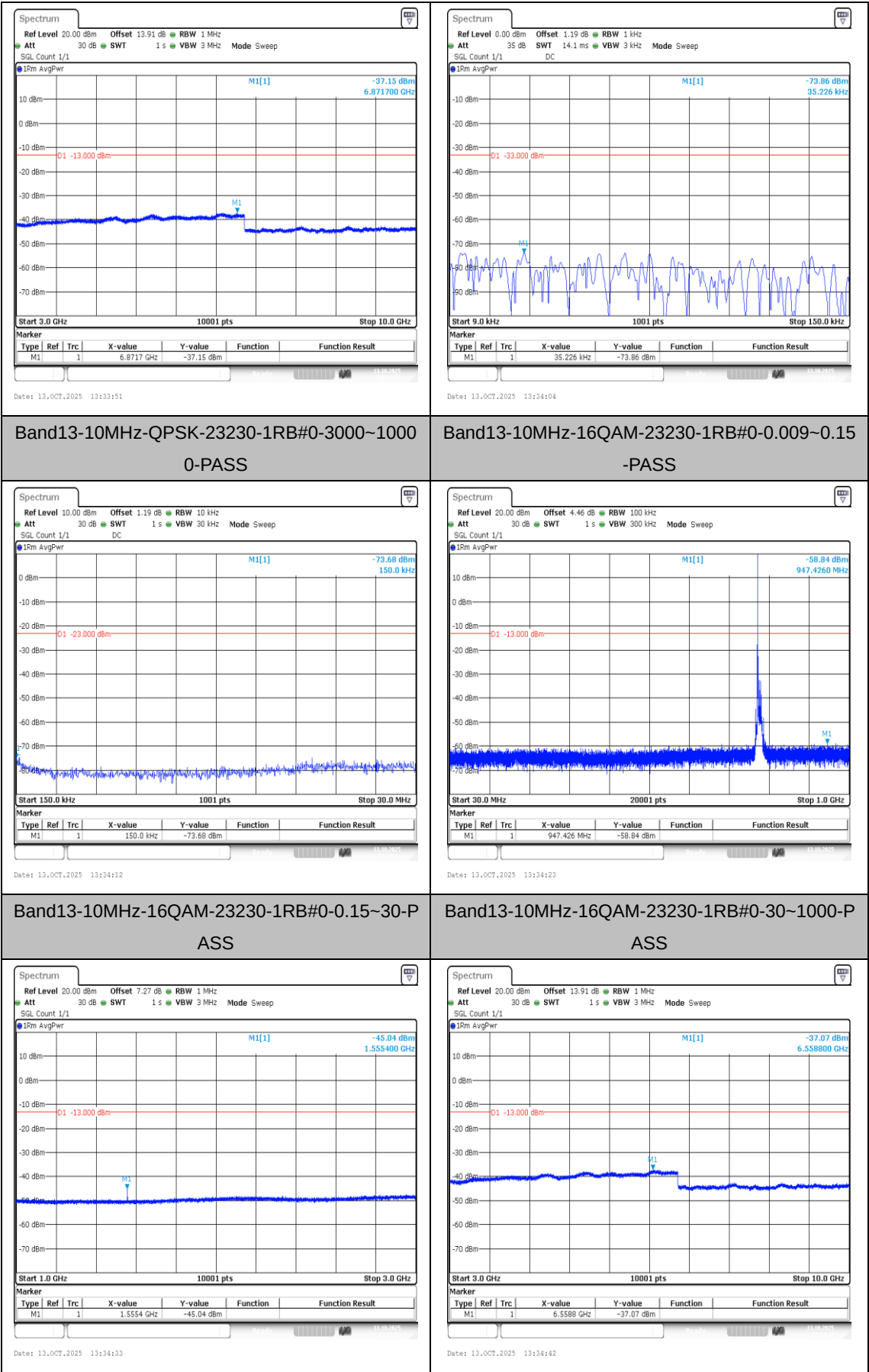












Band13-10MHz-16QAM-23230-1RB#0-1000~300 0-PASS	Band13-10MHz-16QAM-23230-1RB#0-3000~1000 0-PASS
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Appendix F: Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	VN	NT	-4.39	-0.005632	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	VL	NT	-5.26	-0.006748	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	VH	NT	-3.06	-0.003926	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	VN	NT	3.12	0.004003	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	VL	NT	-6.29	-0.008069	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	VH	NT	-5.79	-0.007428	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	VN	NT	-5.69	-0.007276	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	VL	NT	-5.08	-0.006496	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	VH	NT	5.24	0.006701	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	VN	NT	3.46	0.004425	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	VL	NT	-2.42	-0.003095	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	VH	NT	-6.78	-0.008670	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	VN	NT	4.82	0.006144	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	VL	NT	-5.02	-0.006399	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	VH	NT	-6.14	-0.007827	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	VN	NT	4.85	0.006182	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	VL	NT	-3.18	-0.004054	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	VH	NT	3.55	0.004525	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	4.13	0.005281	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	5.75	0.007353	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	-2.85	-0.003645	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VN	NT	4.99	0.006381	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VL	NT	-2.35	-0.003005	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VH	NT	5.89	0.007532	±2.5	PASS

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	-4.25	-0.005452	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	-20	-3.42	-0.004387	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	-10	-3.22	-0.004131	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	0	-7.08	-0.009083	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	10	-2.79	-0.003579	±2.5	PASS

Band13	5MHz	QPSK	23205	25RB#0	NV	20	-2.03	-0.002604	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	30	-4.89	-0.006273	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	40	-3.52	-0.004516	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	50	-3.63	-0.004657	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	-30	4.16	0.005337	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	-20	-5.24	-0.006722	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	-10	-4.98	-0.006389	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	0	-6.65	-0.008531	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	10	2.25	0.002886	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	20	-7.40	-0.009493	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	30	-4.95	-0.006350	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	40	-8.70	-0.011161	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	50	-5.19	-0.006658	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	-30	5.51	0.007046	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	-20	-10.10	-0.012916	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	-10	-6.88	-0.008798	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	0	-6.62	-0.008465	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	10	-6.48	-0.008286	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	20	-6.41	-0.008197	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	30	-7.81	-0.009987	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	40	-7.48	-0.009565	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	50	5.21	0.006662	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	-30	-11.44	-0.014629	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	-20	-7.01	-0.008964	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	-10	-7.02	-0.008977	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	0	-7.82	-0.010000	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	10	-5.18	-0.006624	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	20	-5.26	-0.006726	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	30	-4.71	-0.006023	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	40	-7.91	-0.010115	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	50	-4.56	-0.005831	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	-30	-3.82	-0.004869	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	-20	2.56	0.003263	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	-10	-5.54	-0.007062	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	0	4.52	0.005762	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	10	-4.69	-0.005978	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	20	2.80	0.003569	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	30	-4.22	-0.005379	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	40	-5.15	-0.006565	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	50	-7.44	-0.009484	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	-30	-5.62	-0.007164	±2.5	PASS

Band13	5MHz	16QAM	23255	25RB#0	NV	-20	-3.13	-0.003990	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	-10	-7.72	-0.009841	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	0	4.76	0.006068	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	10	-5.19	-0.006616	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	20	7.15	0.009114	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	30	-1.87	-0.002384	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	40	2.82	0.003595	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	50	3.32	0.004232	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	-3.48	-0.004450	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	5.55	0.007097	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	-3.93	-0.005026	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	5.48	0.007008	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	5.82	0.007442	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	-3.49	-0.004463	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	-5.85	-0.007481	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	-5.06	-0.006471	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	6.61	0.008453	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-30	6.42	0.008210	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-20	7.51	0.009604	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-10	2.39	0.003056	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	0	-6.79	-0.008683	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	10	4.73	0.006049	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	20	-4.23	-0.005409	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	30	5.55	0.007097	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	40	4.92	0.006292	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	50	-4.18	-0.005345	±2.5	PASS