

Appendix for Bluetooth

Product Name: Combo Module

Model No: EL3394-P

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
LE_1M	Ant1	2402	0.652	2401.664	2402.316	0.5	PASS
LE_1M	Ant1	2440	0.656	2439.660	2440.316	0.5	PASS
LE_1M	Ant1	2480	0.664	2479.656	2480.320	0.5	PASS
LE_2M	Ant1	2402	1.104	2401.428	2402.532	0.5	PASS
LE_2M	Ant1	2440	1.104	2439.428	2440.532	0.5	PASS
LE_2M	Ant1	2480	1.108	2479.440	2480.548	0.5	PASS

Test Graphs



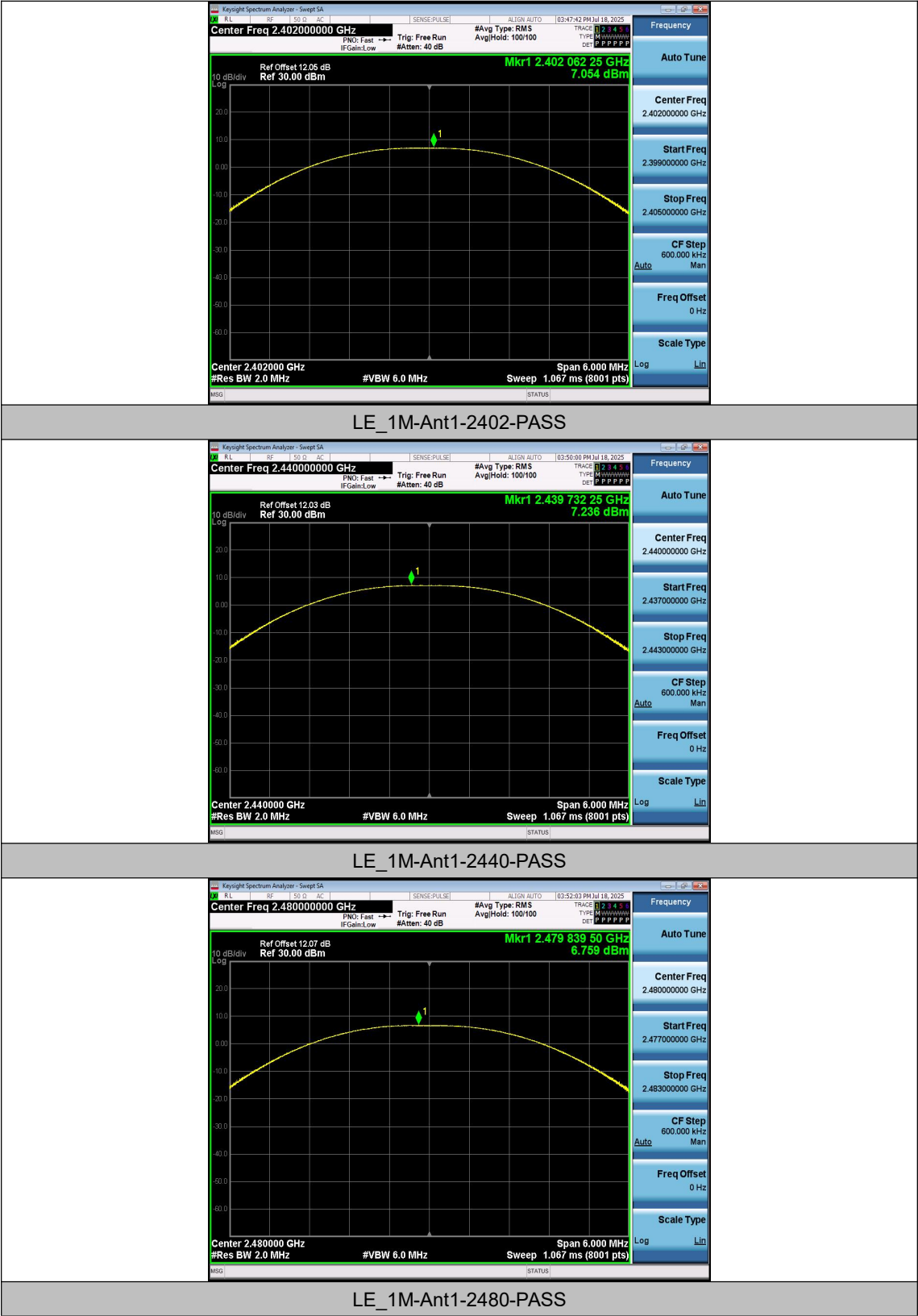


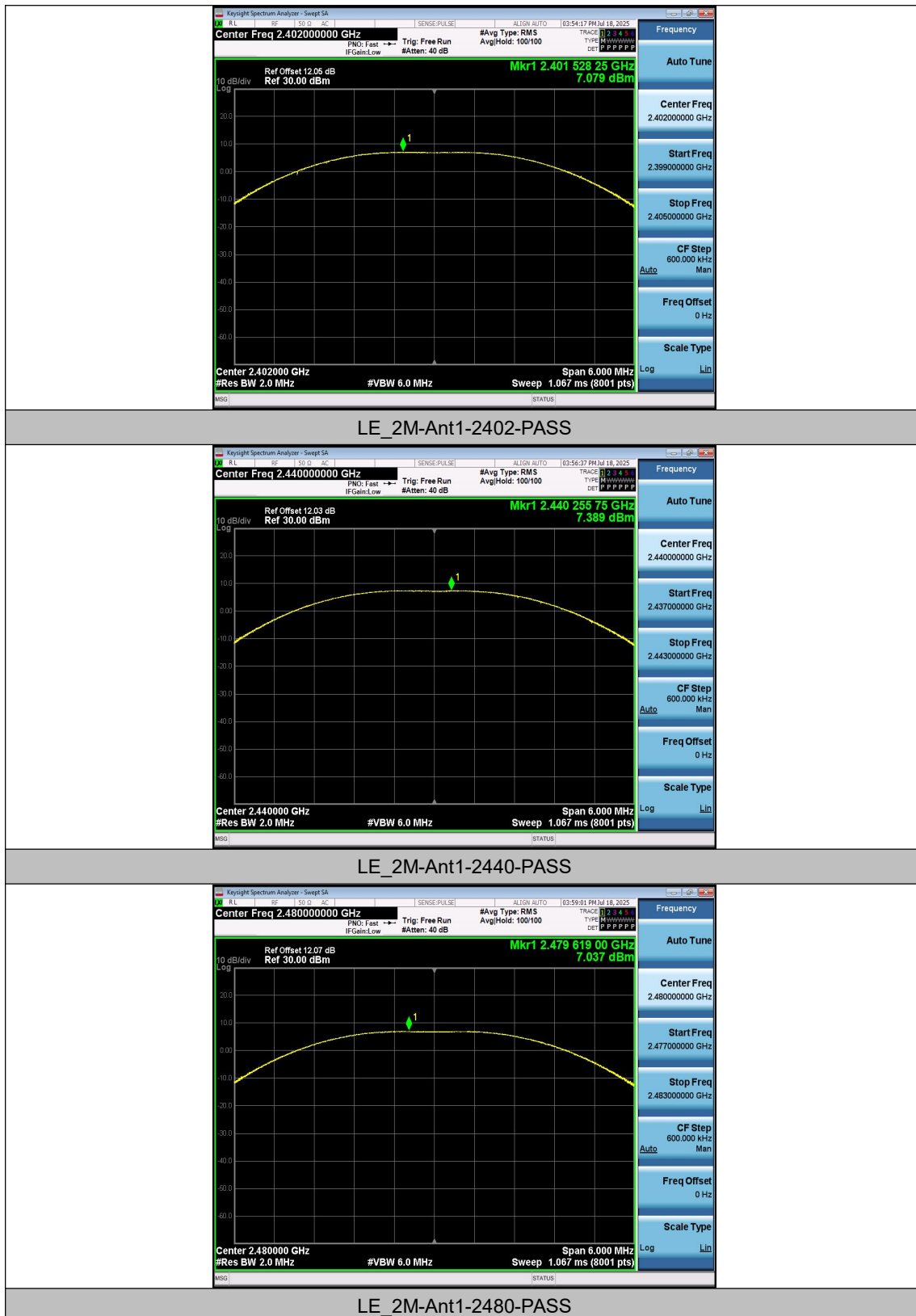
Appendix B: Maximum conducted output power

Test Result

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
LE_1M	Ant1	2402	7.05	≤30	PASS
LE_1M	Ant1	2440	7.24	≤30	PASS
LE_1M	Ant1	2480	6.76	≤30	PASS
LE_2M	Ant1	2402	7.08	≤30	PASS
LE_2M	Ant1	2440	7.39	≤30	PASS
LE_2M	Ant1	2480	7.04	≤30	PASS

Test Graphs



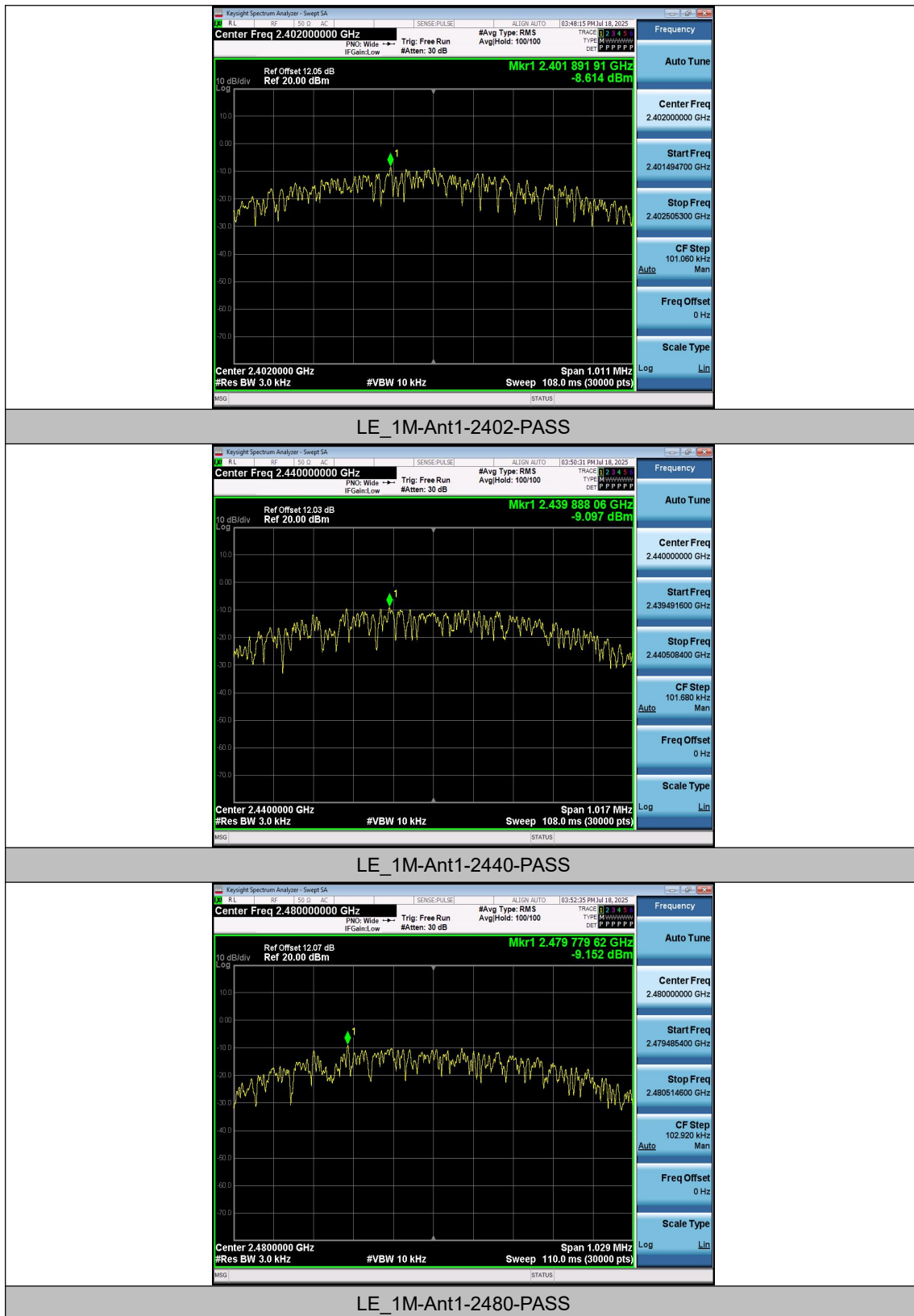


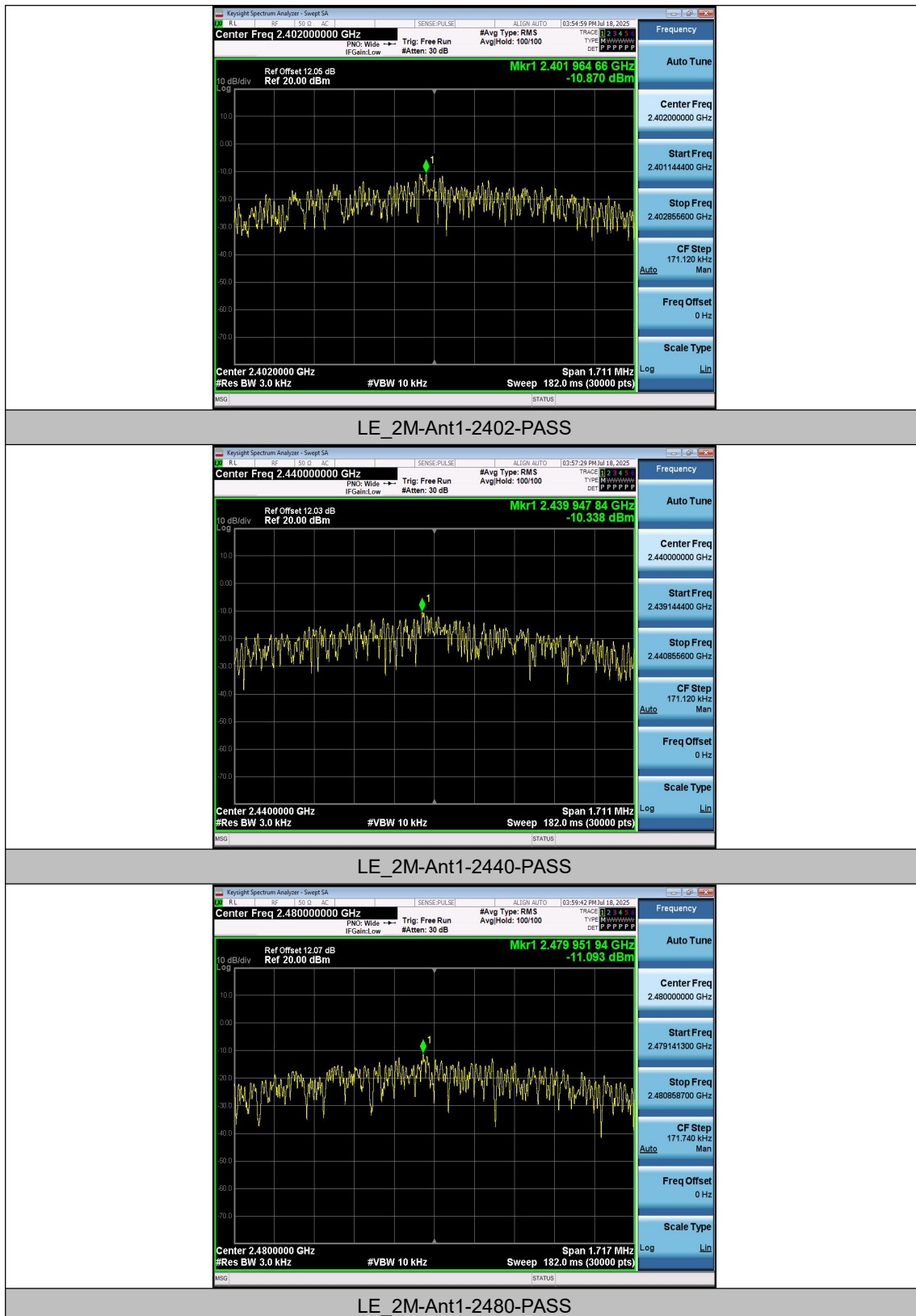
Appendix C: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
LE_1M	Ant1	2402	-8.61	≤8.00	PASS
LE_1M	Ant1	2440	-9.10	≤8.00	PASS
LE_1M	Ant1	2480	-9.15	≤8.00	PASS
LE_2M	Ant1	2402	-10.87	≤8.00	PASS
LE_2M	Ant1	2440	-10.34	≤8.00	PASS
LE_2M	Ant1	2480	-11.09	≤8.00	PASS

Test Graphs





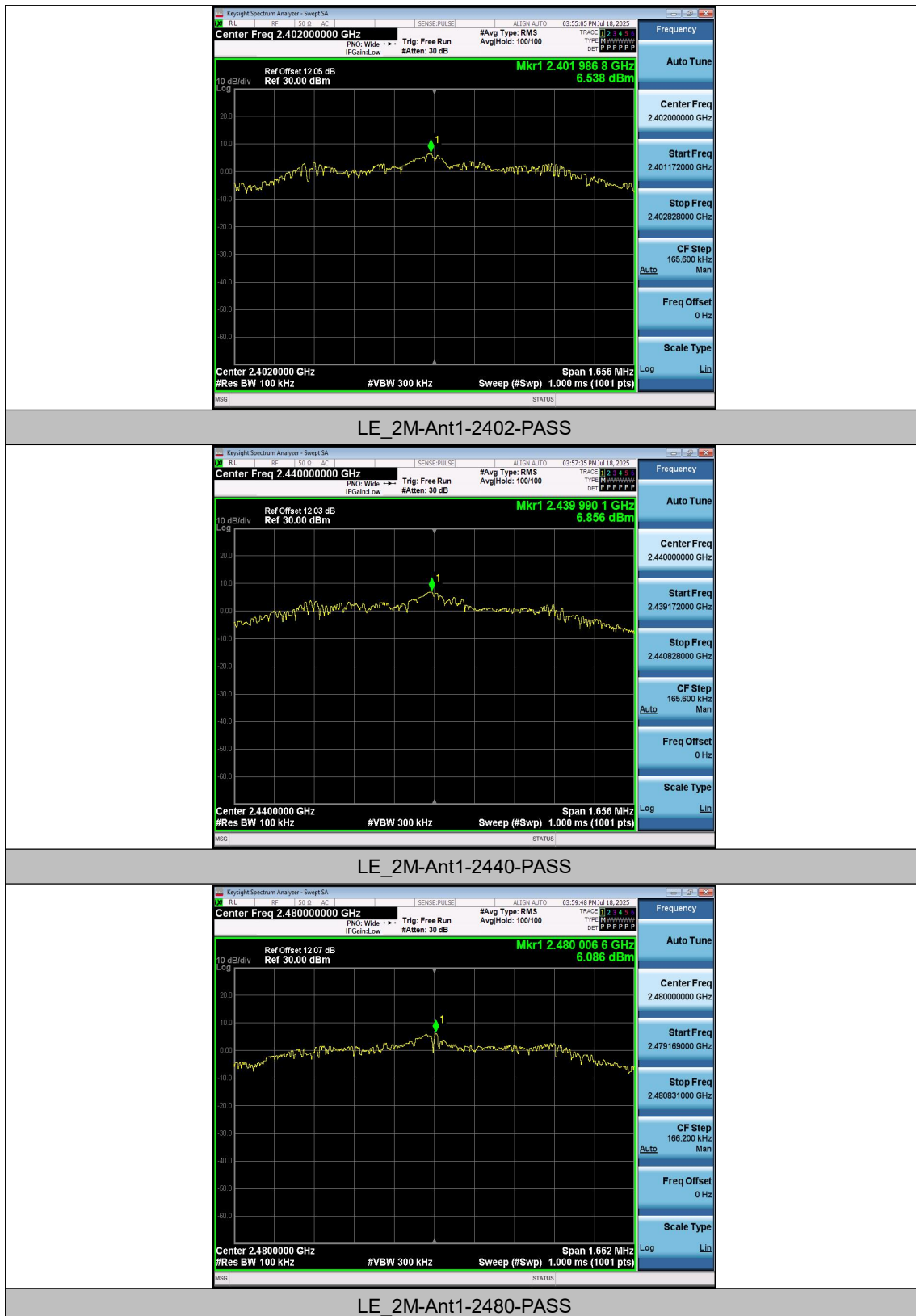
Appendix D: Reference level measurement

Test Result

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
LE_1M	Ant1	2402	2401.98	6.41
LE_1M	Ant1	2440	2439.99	6.67
LE_1M	Ant1	2480	2479.99	6.21
LE_2M	Ant1	2402	2401.99	6.54
LE_2M	Ant1	2440	2439.99	6.86
LE_2M	Ant1	2480	2480.01	6.09

Test Graphs



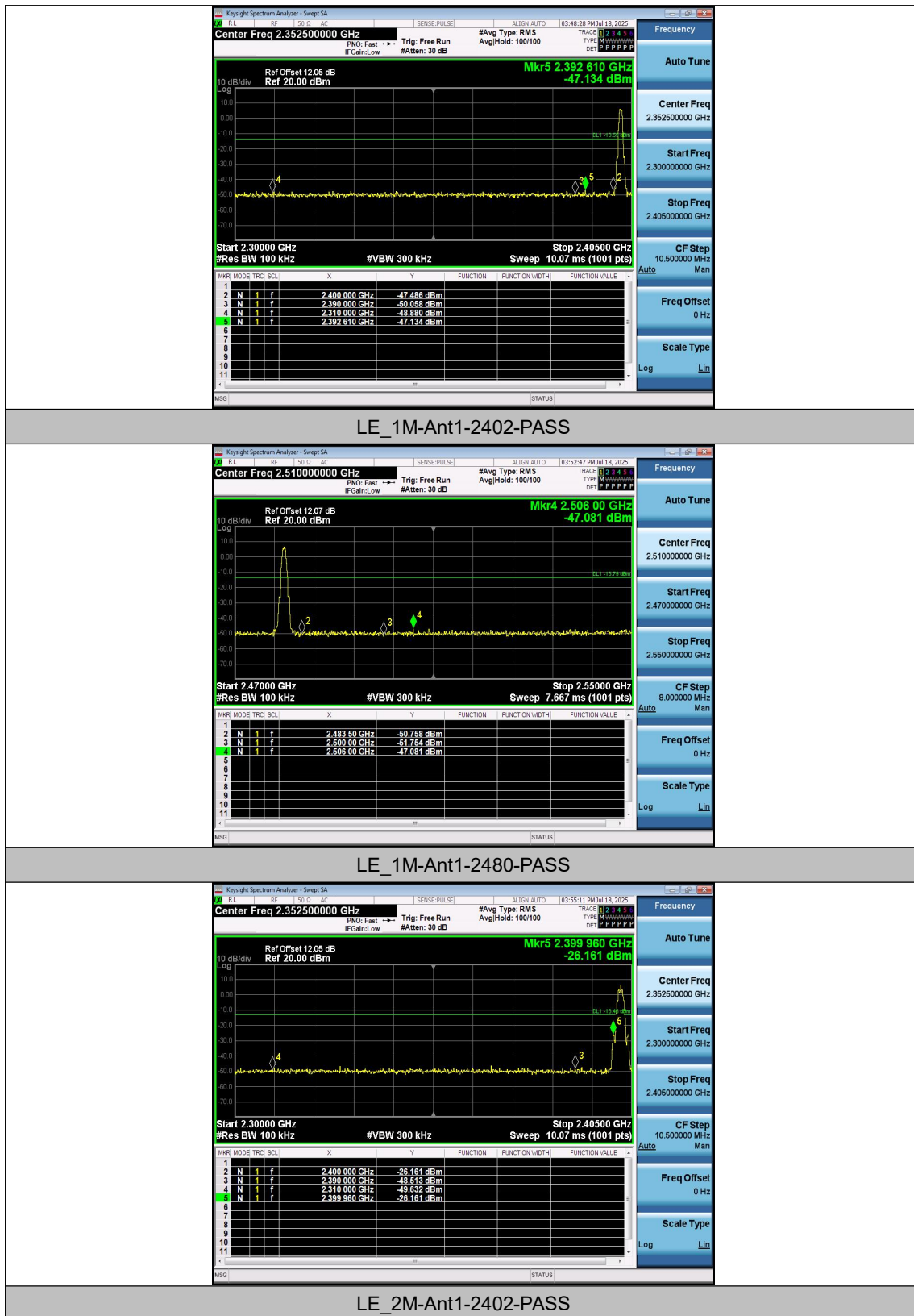


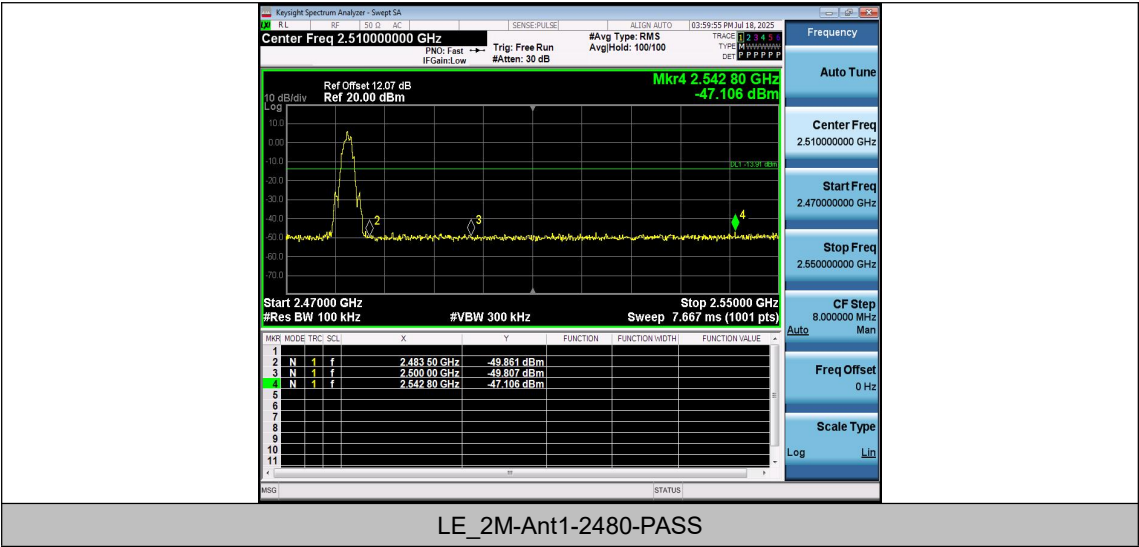
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
LE_1M	Ant1	Low	2402	6.41	-47.13	≤-13.59	PASS
LE_1M	Ant1	High	2480	6.21	-47.08	≤-13.79	PASS
LE_2M	Ant1	Low	2402	6.54	-26.16	≤-13.46	PASS
LE_2M	Ant1	High	2480	6.09	-47.11	≤-13.91	PASS

Test Graphs



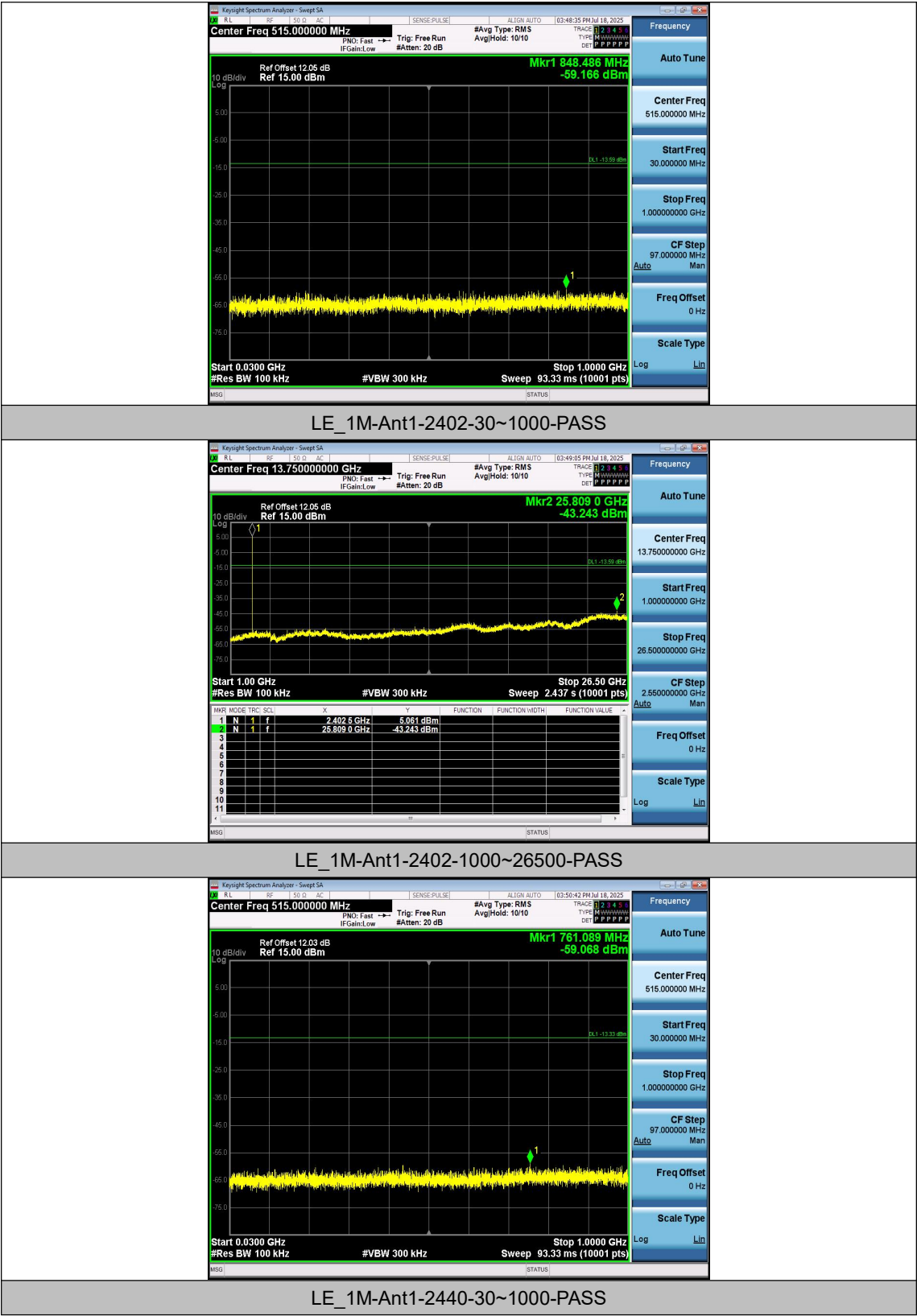


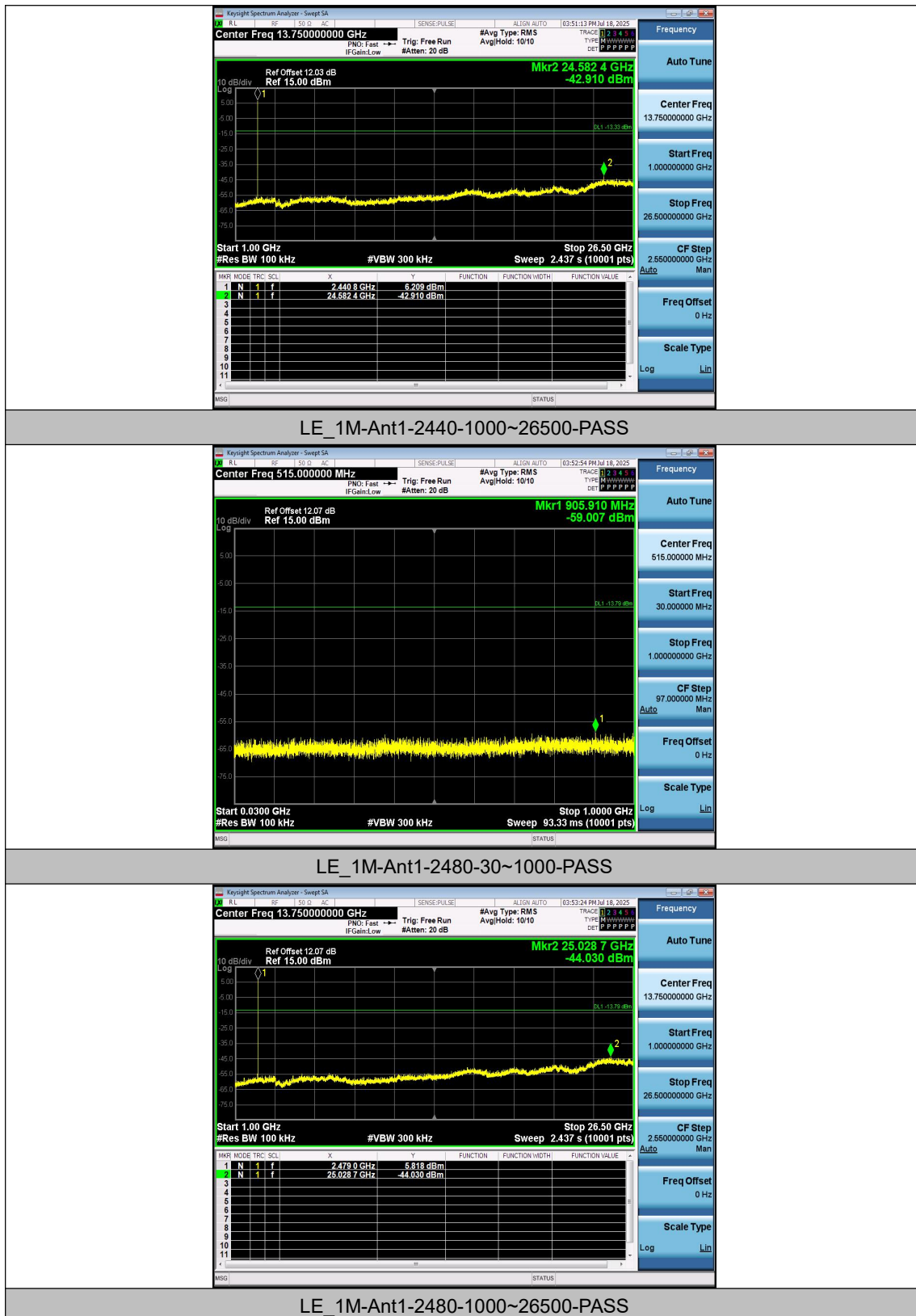
Appendix F: Conducted Spurious Emission

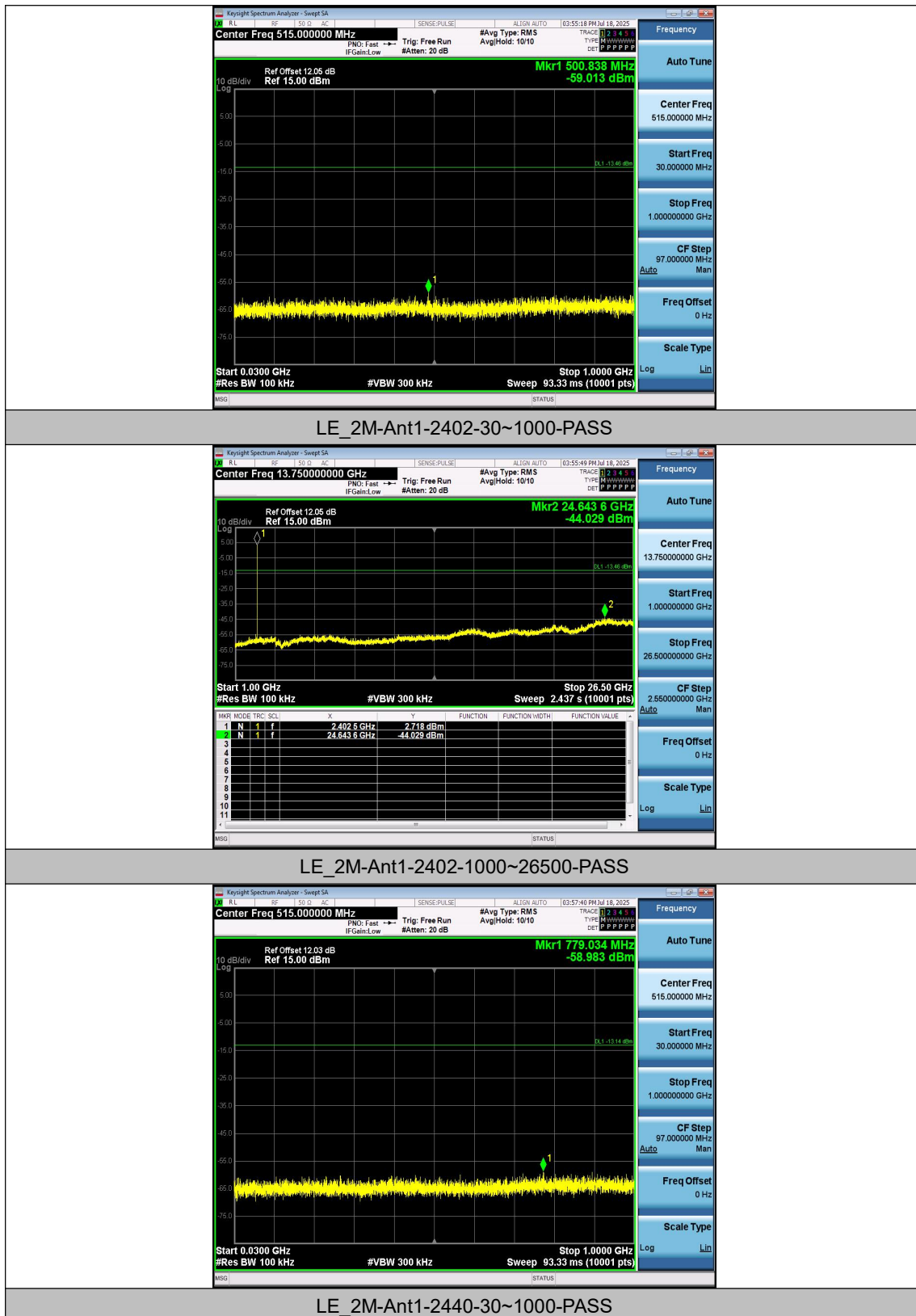
Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
LE_1M	Ant1	2402	30~1000	6.41	-59.17	≤-13.59	PASS
LE_1M	Ant1	2402	1000~26500	6.41	-43.24	≤-13.59	PASS
LE_1M	Ant1	2440	30~1000	6.67	-59.07	≤-13.33	PASS
LE_1M	Ant1	2440	1000~26500	6.67	-42.91	≤-13.33	PASS
LE_1M	Ant1	2480	30~1000	6.21	-59.01	≤-13.79	PASS
LE_1M	Ant1	2480	1000~26500	6.21	-44.03	≤-13.79	PASS
LE_2M	Ant1	2402	30~1000	6.54	-59.01	≤-13.46	PASS
LE_2M	Ant1	2402	1000~26500	6.54	-44.03	≤-13.46	PASS
LE_2M	Ant1	2440	30~1000	6.86	-58.98	≤-13.14	PASS
LE_2M	Ant1	2440	1000~26500	6.86	-43.83	≤-13.14	PASS
LE_2M	Ant1	2480	30~1000	6.09	-58.73	≤-13.91	PASS

Test Graphs









Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
LE_1M	Ant1	2402	0.40	0.63	63.49	1.97
LE_1M	Ant1	2440	0.40	0.63	63.49	1.97
LE_1M	Ant1	2480	0.40	0.63	63.49	1.97
LE_2M	Ant1	2402	0.21	0.63	33.33	4.77
LE_2M	Ant1	2440	0.21	0.63	33.33	4.77
LE_2M	Ant1	2480	0.21	0.63	33.33	4.77