

Appendix B: Test Results of Bluetooth LE

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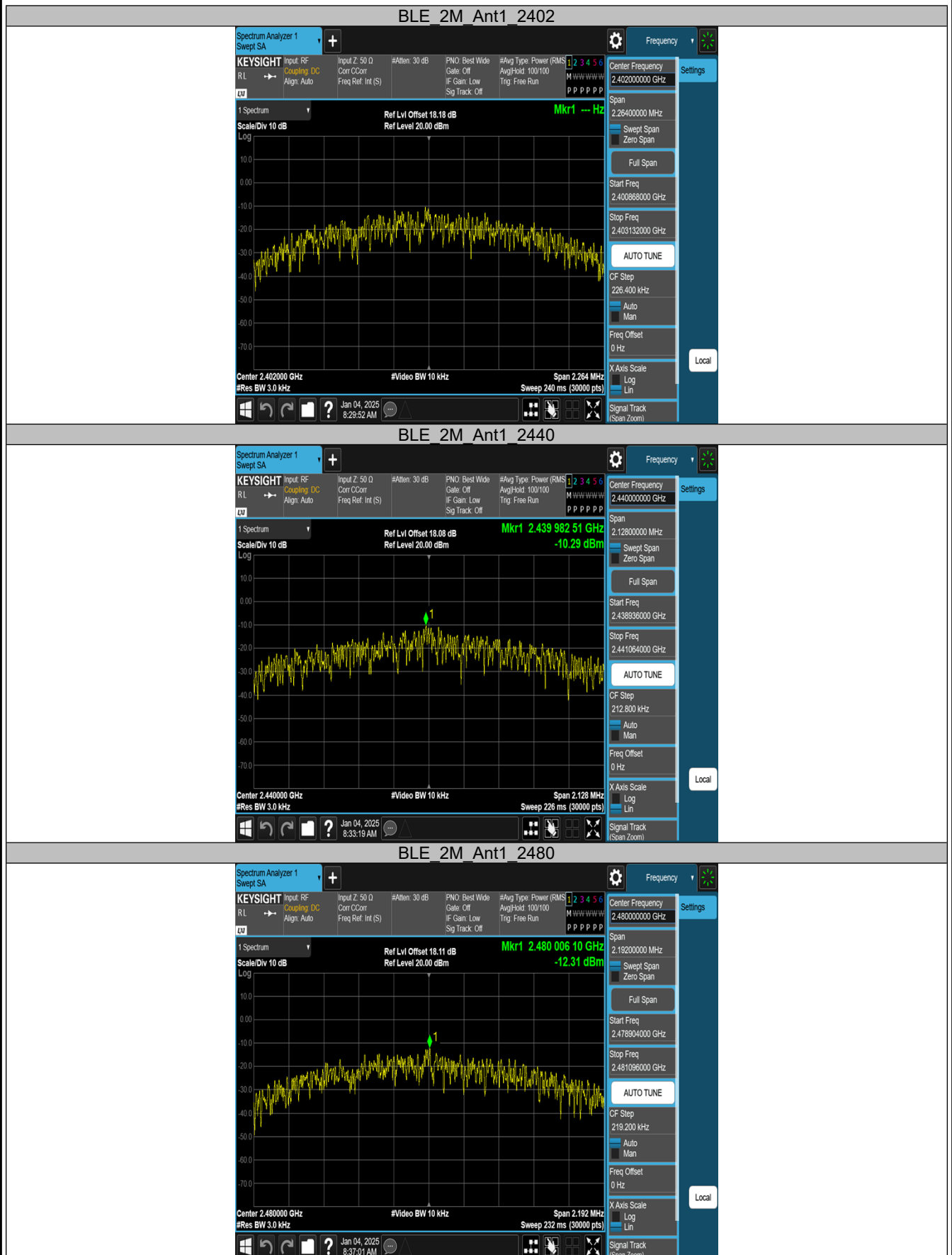
Appendix B.1: Test Results of Conducted Power Spectral Density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-9.01	≤8.00	PASS
		2440	-8.93	≤8.00	PASS
		2480	-10.79	≤8.00	PASS
BLE_2M	Ant1	2402	-10.29	≤8.00	PASS
		2440	-10.29	≤8.00	PASS
		2480	-12.31	≤8.00	PASS

Test Graphs





Appendix B.2: Test Results of 6dB Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.684	2401.680	2402.364	0.5	PASS
		2440	0.688	2439.660	2440.348	0.5	PASS
		2480	0.668	2479.672	2480.340	0.5	PASS
BLE_2M	Ant1	2402	1.132	2401.444	2402.576	0.5	PASS
		2440	1.064	2439.460	2440.524	0.5	PASS
		2480	1.096	2479.468	2480.564	0.5	PASS

Test Graphs



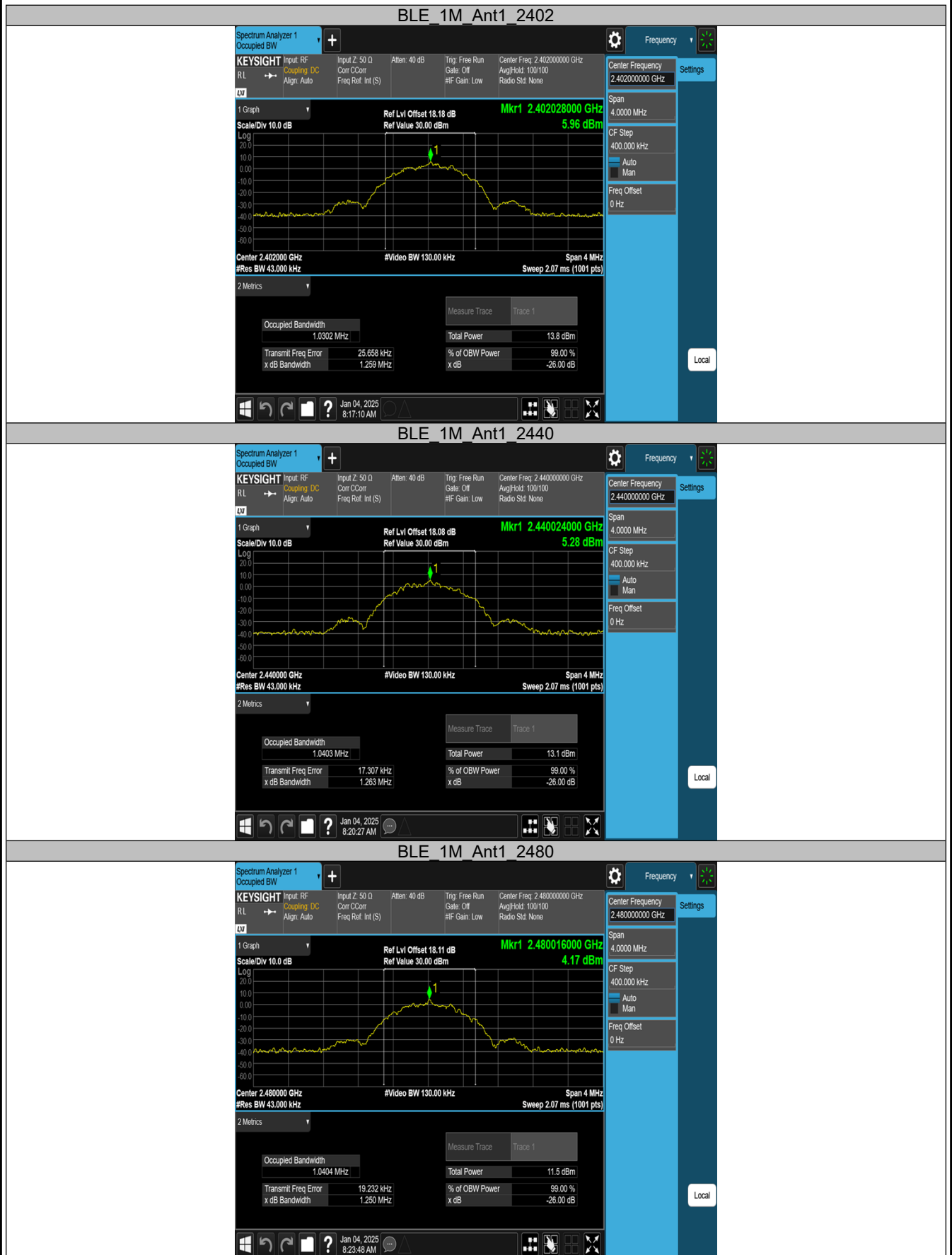


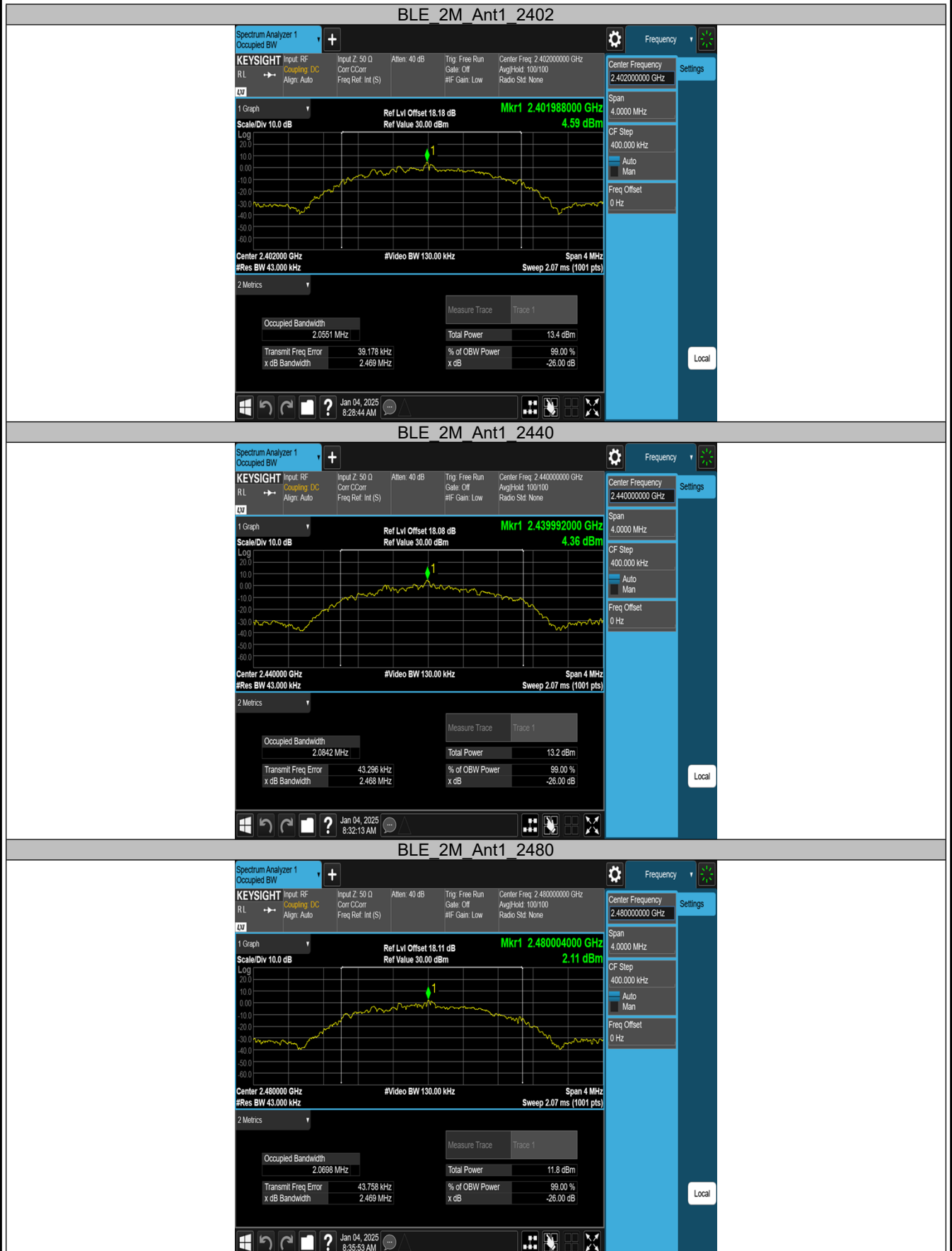
Appendix B.3: Test Results of 99% Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0302	2401.5106	2402.5408	---	PASS
		2440	1.0403	2439.4972	2440.5375	---	PASS
		2480	1.0404	2479.4990	2480.5394	---	PASS
BLE_2M	Ant1	2402	2.0551	2401.0116	2403.0667	---	PASS
		2440	2.0842	2439.0012	2441.0854	---	PASS
		2480	2.0698	2479.0089	2481.0787	---	PASS

Test Graphs





Appendix B.4: Test Results of Band Edge Measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	6.84	-45.94	≤-13.16	PASS
		High	2480	5.56	-44.46	≤-14.44	PASS
BLE_2M	Ant1	Low	2402	6.49	-26.58	≤-13.51	PASS
		High	2480	5.57	-43.31	≤-14.43	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



BLE_2M_Ant1_Low_2402





Appendix B.5: Test Results of Conducted Spurious Emissions

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	6.66	6.66	---	PASS
			30~1000	6.66	-42.25	≤-13.34	PASS
			1000~26500	6.66	-33.93	≤-13.34	PASS
		2440	Reference	5.91	5.91	---	PASS
			30~1000	5.91	-42.85	≤-14.09	PASS
			1000~26500	5.91	-34.29	≤-14.09	PASS
		2480	Reference	4.26	4.26	---	PASS
			30~1000	4.26	-41.69	≤-15.74	PASS
			1000~26500	4.26	-33.59	≤-15.74	PASS
BLE_2M	Ant1	2402	Reference	6.74	6.74	---	PASS
			30~1000	6.74	-42.52	≤-13.26	PASS
			1000~26500	6.74	-33.05	≤-13.26	PASS
		2440	Reference	6.46	6.46	---	PASS
			30~1000	6.46	-41.82	≤-13.54	PASS
			1000~26500	6.46	-32.66	≤-13.54	PASS
		2480	Reference	4.56	4.56	---	PASS
			30~1000	4.56	-41.97	≤-15.44	PASS
			1000~26500	4.56	-33.33	≤-15.44	PASS

Test Graphs

BLE 1M_Ant1_2402_0~Reference



BLE 1M_Ant1_2402_30~1000



BLE 1M_Ant1_2402_1000~26500

