



Appendix B

RF Test Data for BLE (Conducted Measurement)

Product Name: TABLET PC

Trade Mark: Simbans

Test Model: Picasso Tab _ XL

Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	50%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Li
Supervised by:	Li Huan



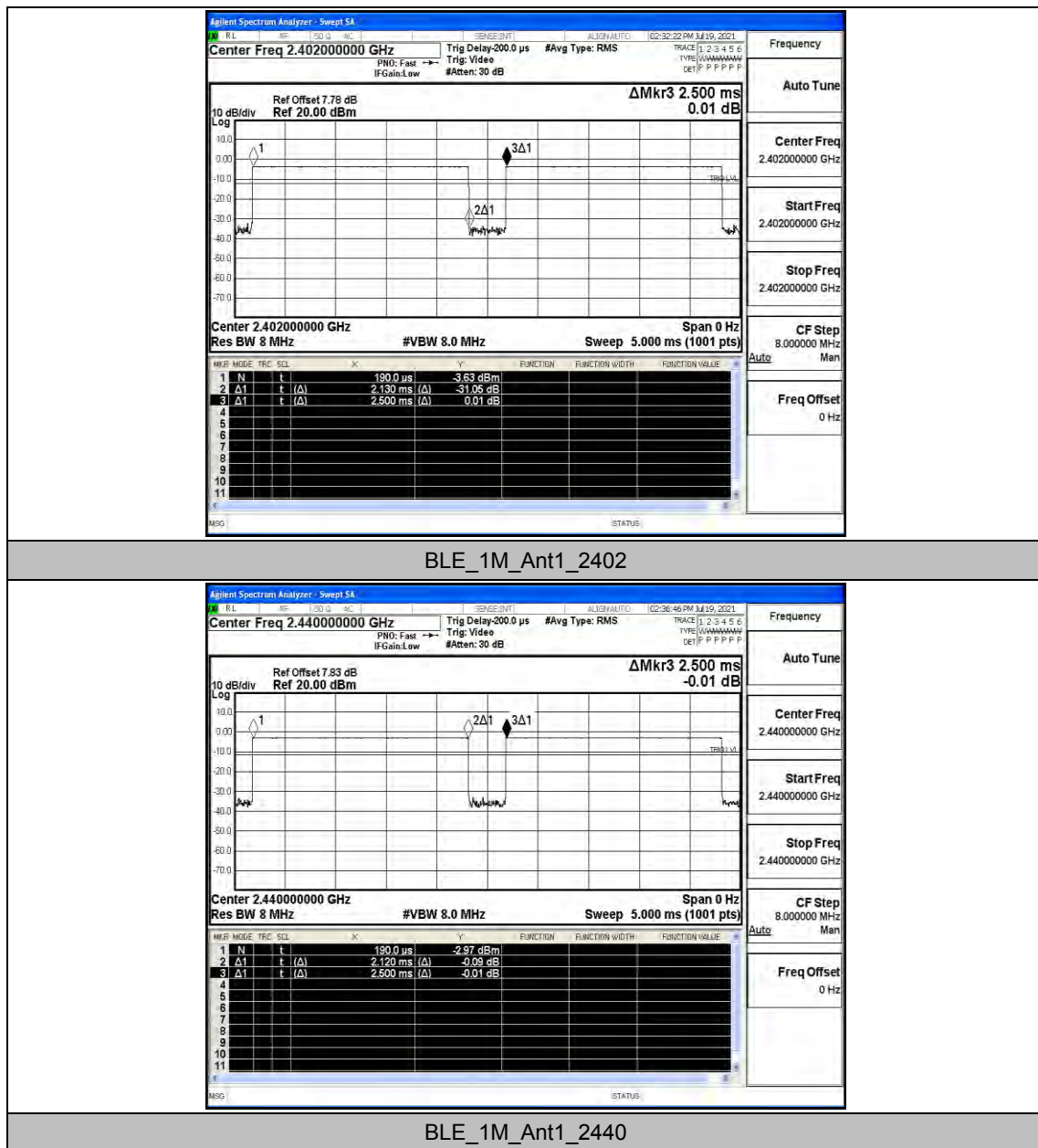
Appendix B.1: Duty Cycle

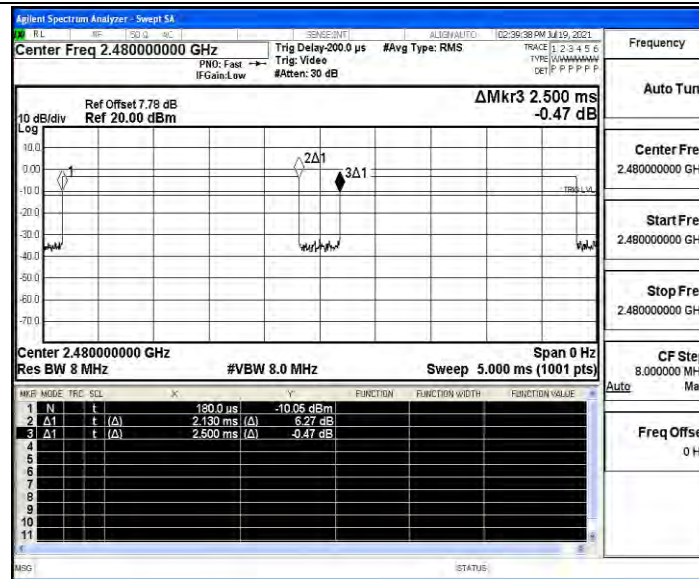
Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	2.13	2.50	0.8520	85.20	0.70	---	PASS
		2440	2.12	2.50	0.8480	84.80	0.72	---	PASS
		2480	2.13	2.50	0.8520	85.20	0.70	---	PASS



Test Graphs





BLE_1M_Ant1_2480



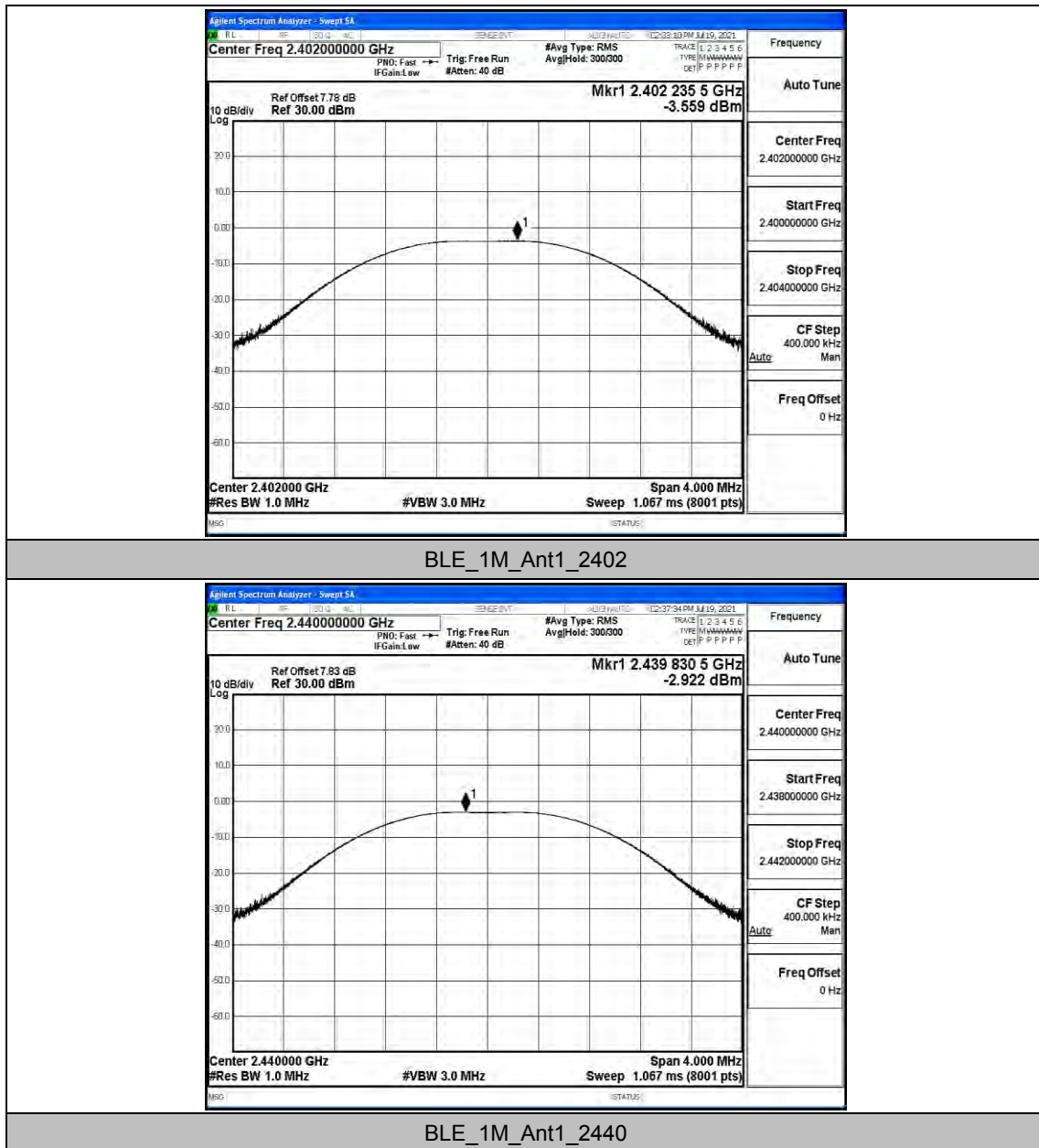
Appendix B.2: Maximum conducted output power

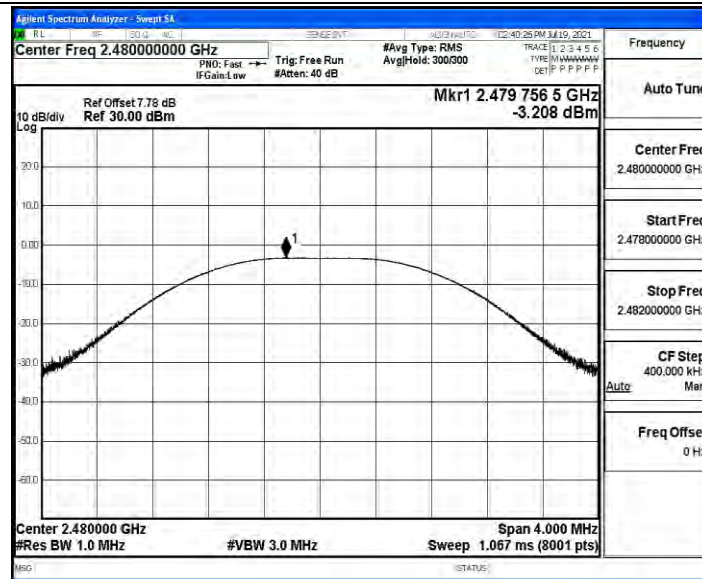
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.56	≤30	PASS
		2440	-2.92	≤30	PASS
		2480	-3.21	≤30	PASS



Test Graphs





BLE_1M_Ant1_2480



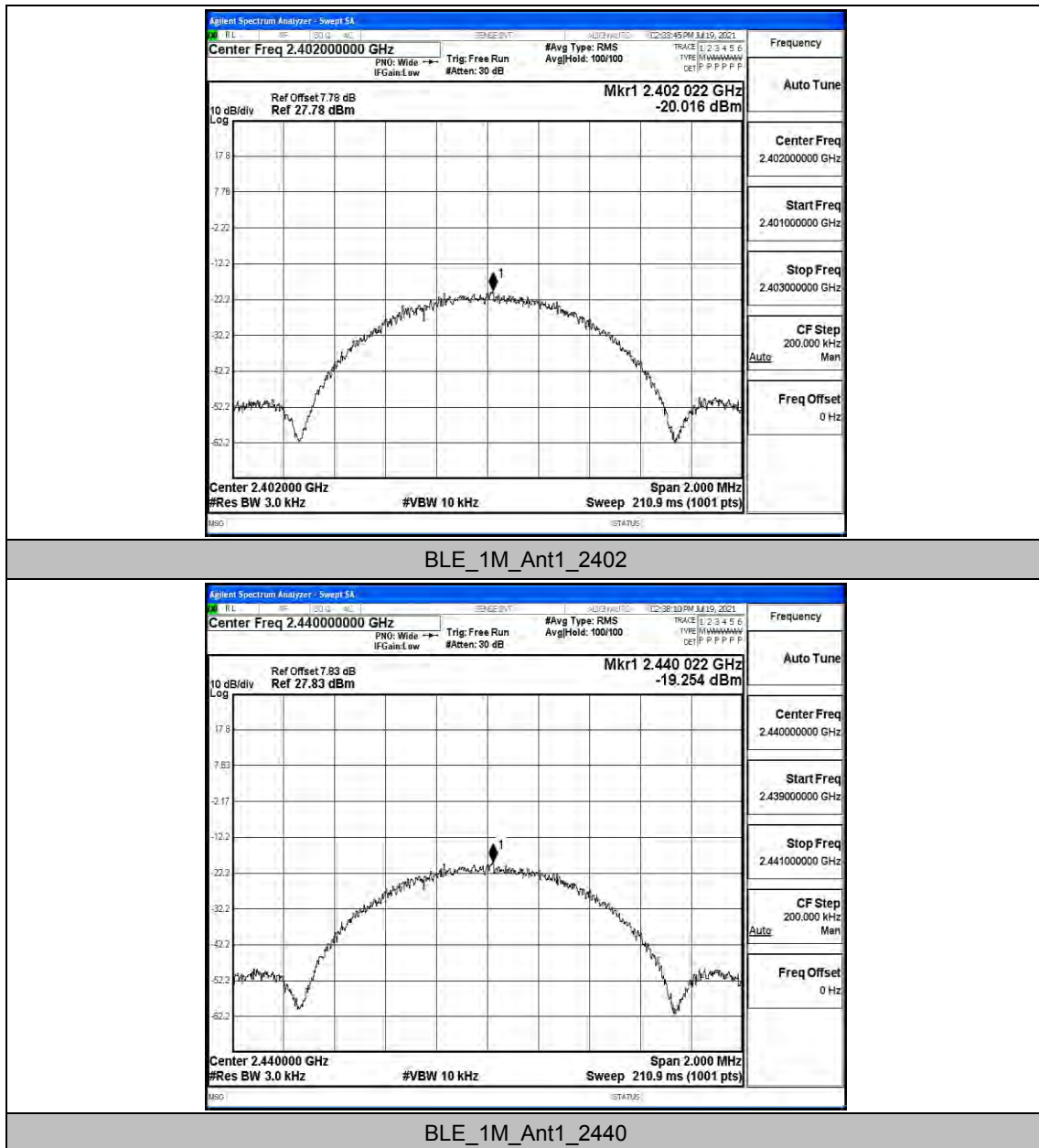
Appendix B.3: Maximum power spectral density

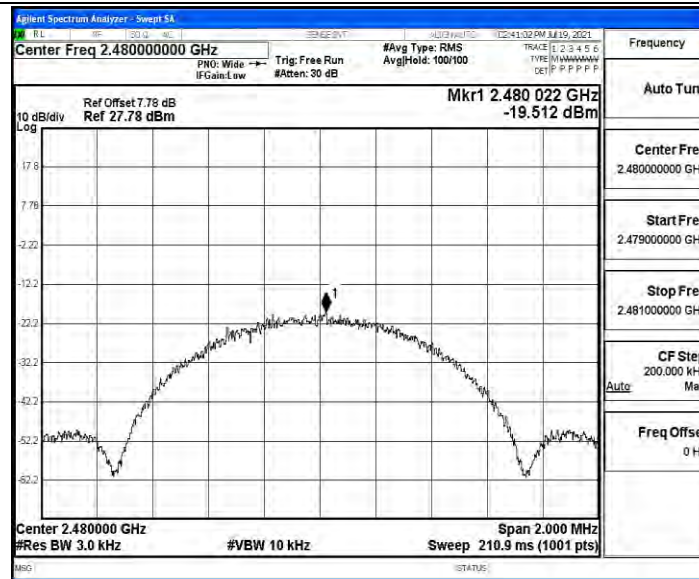
Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-20.02	≤8	PASS
		2440	-19.25	≤8	PASS
		2480	-19.51	≤8	PASS



Test Graphs





BLE_1M_Ant1_2480



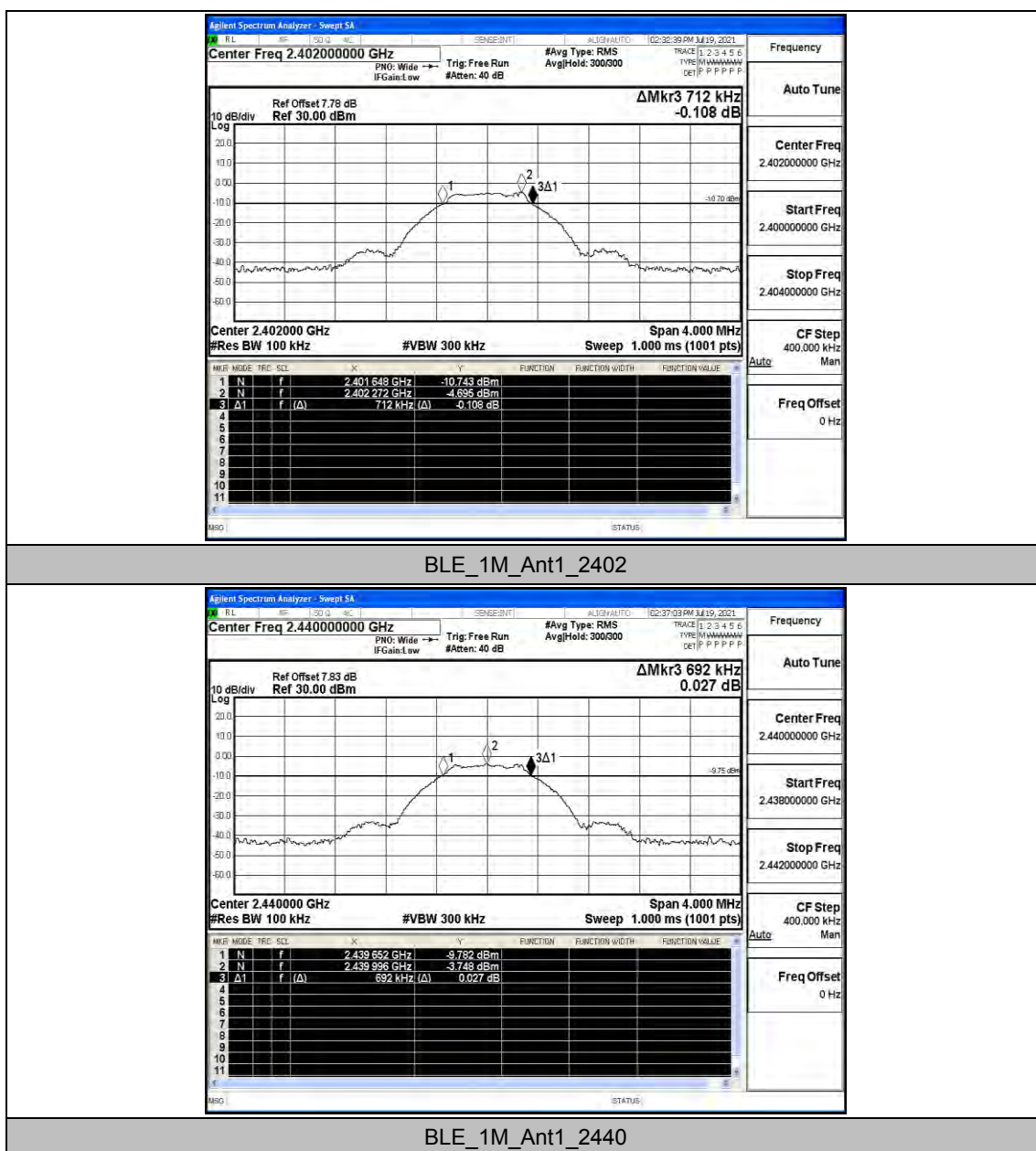
Appendix B.4.1: DTS Bandwidth

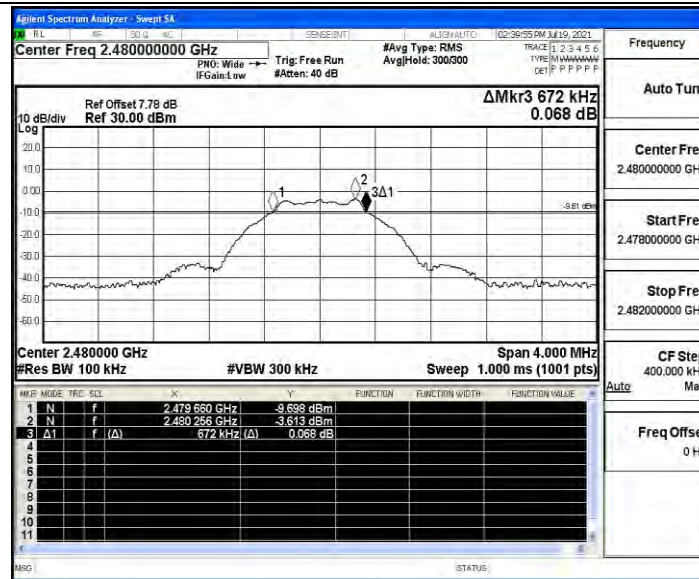
Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.712	2401.648	2402.360	≥0.5	PASS
		2440	0.692	2439.652	2440.344	≥0.5	PASS
		2480	0.672	2479.660	2480.332	≥0.5	PASS



Test Graphs





BLE_1M_Ant1_2480



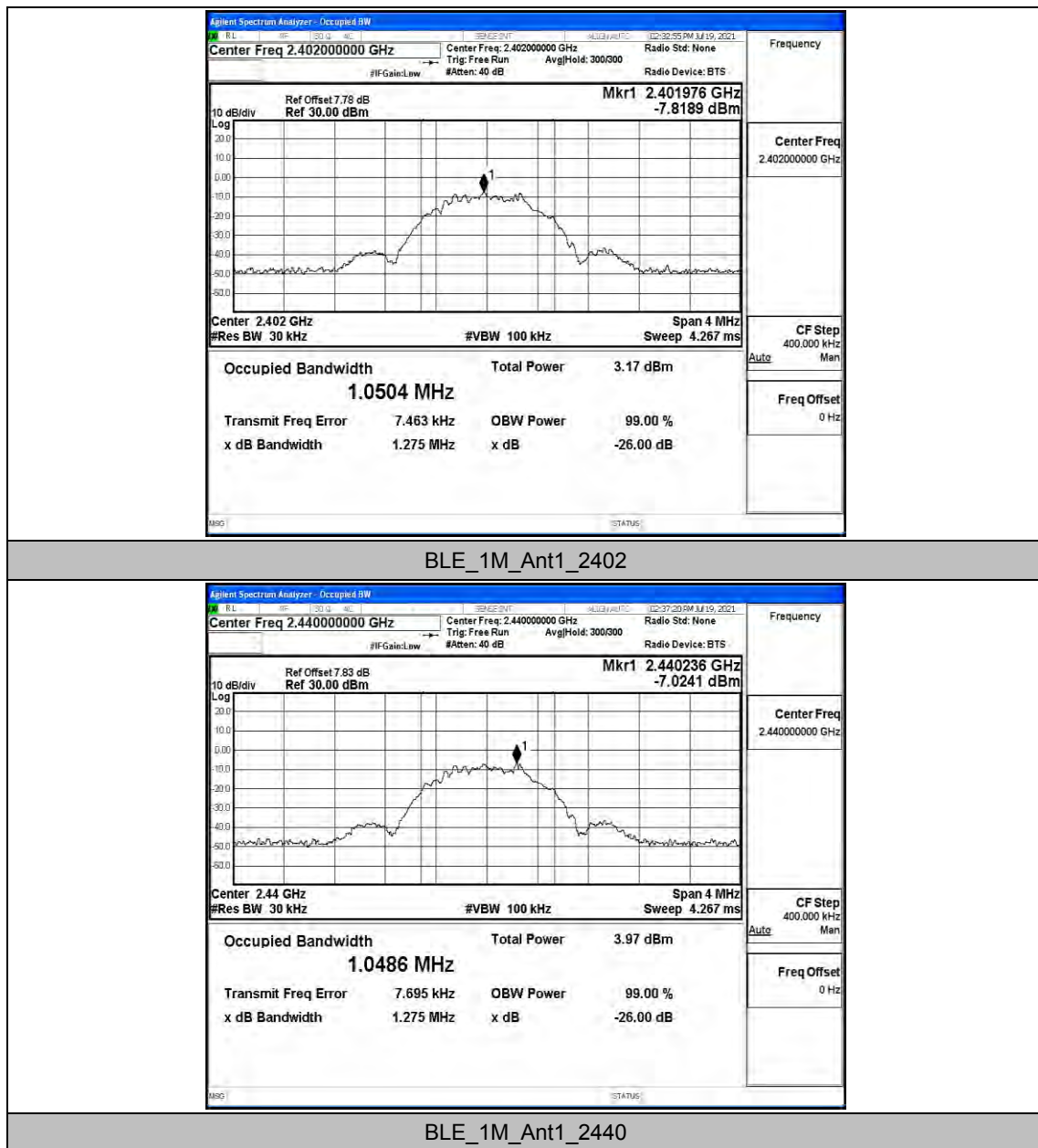
Appendix B.4.2: Occupied Channel Bandwidth

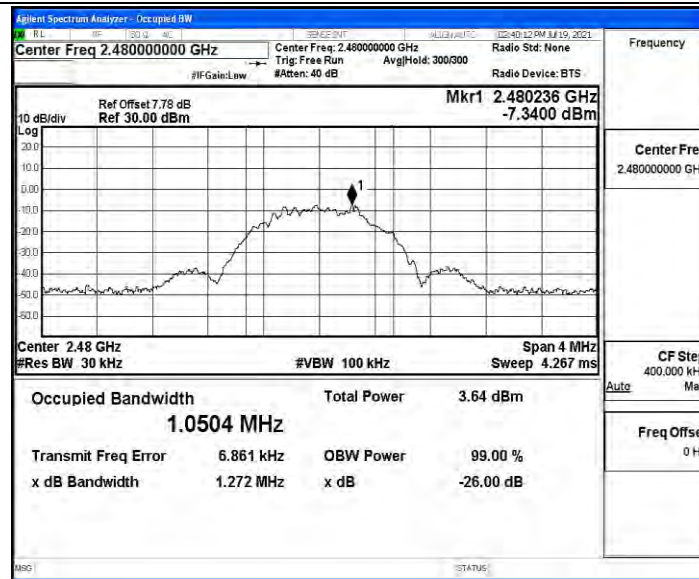
Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0504	2401.482	2402.533	---	PASS
		2440	1.0486	2439.483	2440.532	---	PASS
		2480	1.0504	2479.482	2480.532	---	PASS



Test Graphs





BLE_1M_Ant1_2480



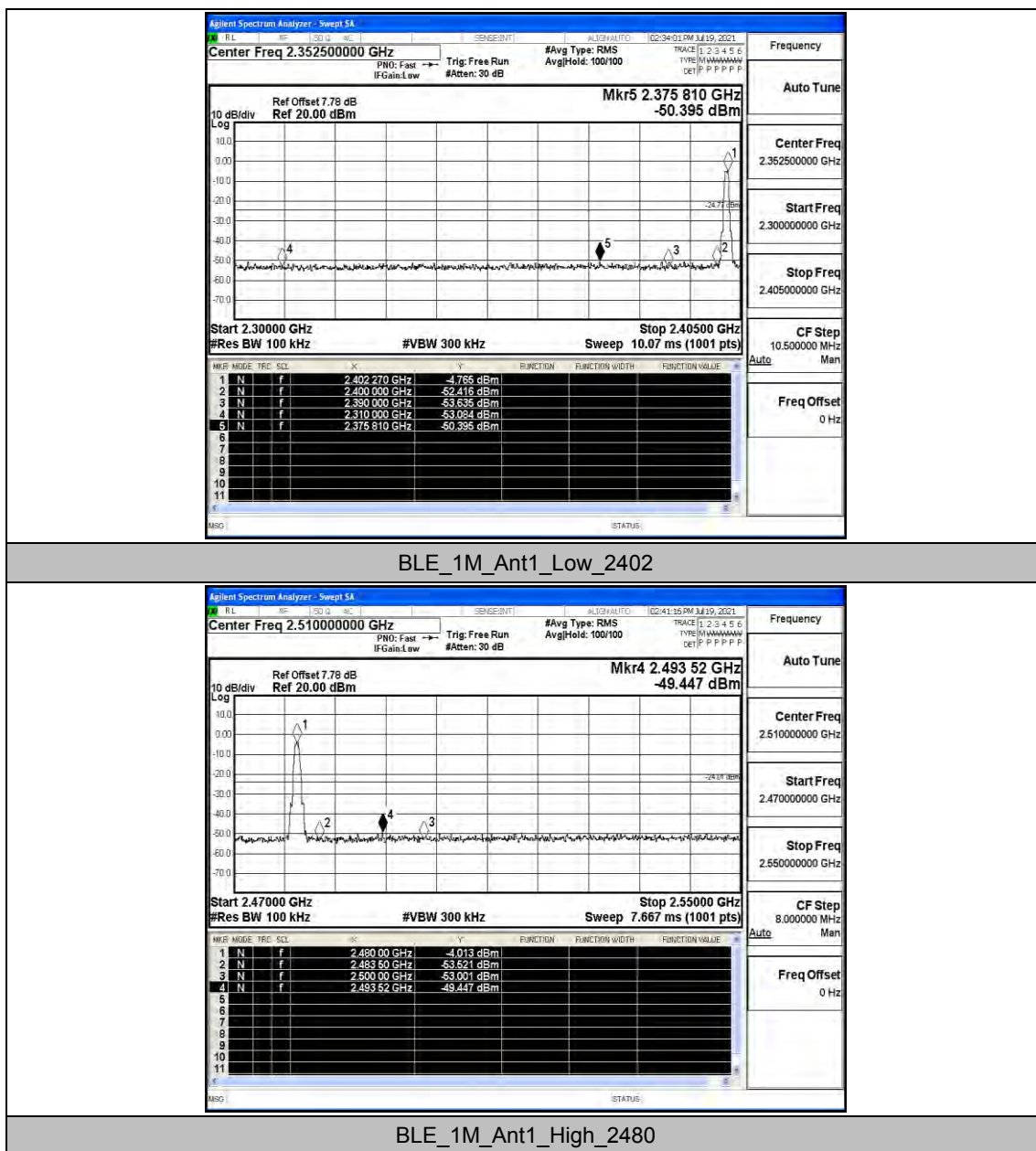
Appendix B.5: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-4.77	-50.4	≤ -24.77	PASS
		High	2480	-4.01	-49.45	≤ -24.01	PASS



Test Graphs





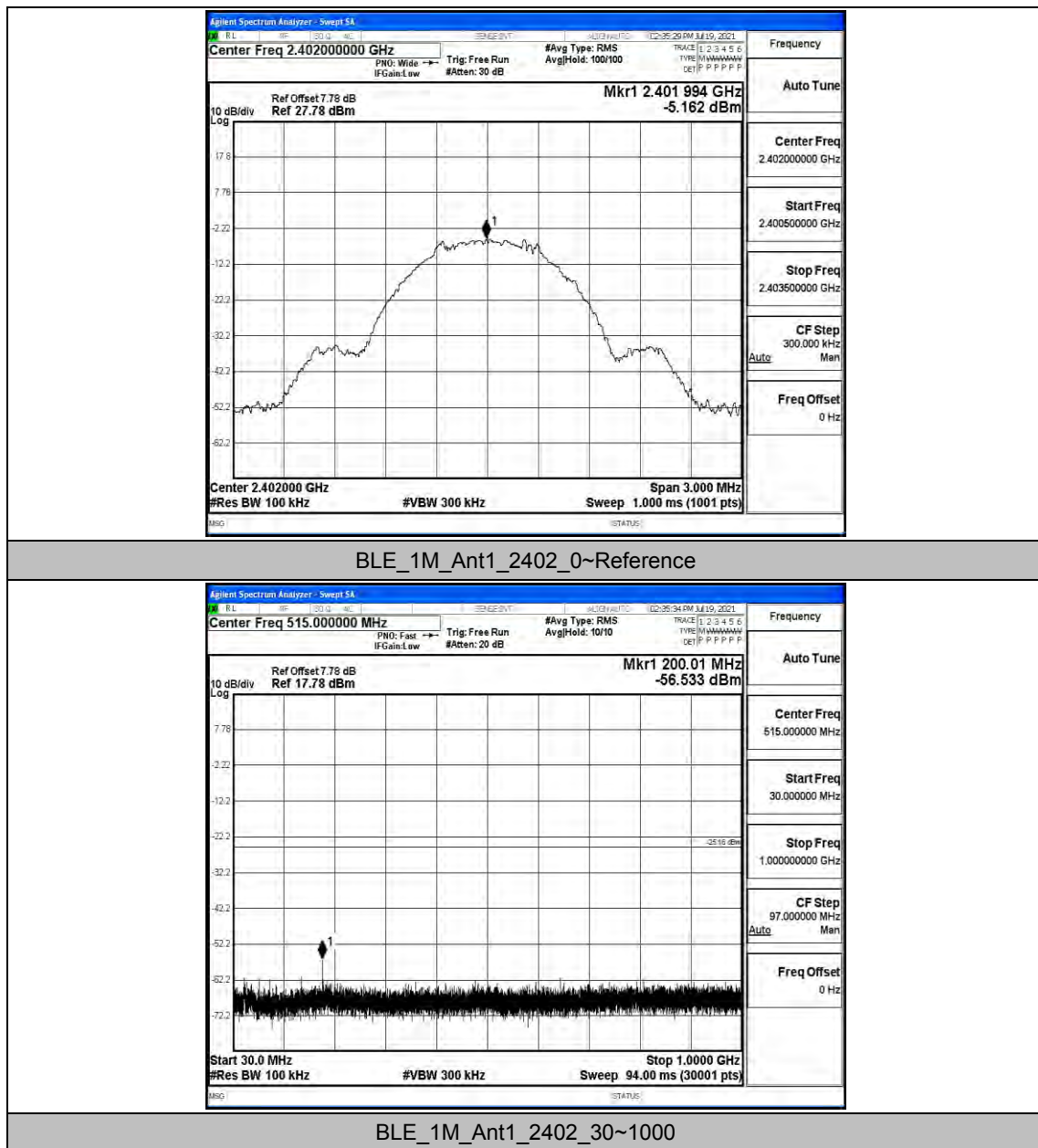
Appendix B.6: Conducted Spurious Emission

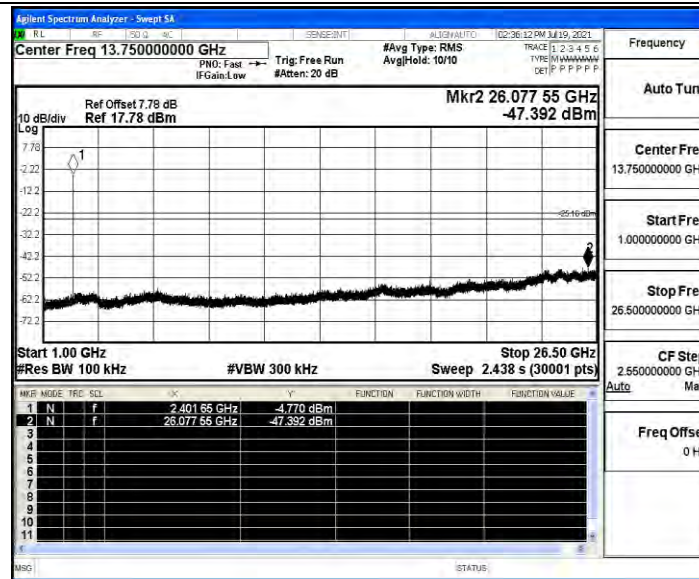
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-5.16	-5.16	---	PASS
			30~1000	-5.16	-56.53	≤ -25.16	PASS
			1000~26500	-5.16	-47.39	≤ -25.16	PASS
		2440	Reference	-4.17	-4.17	---	PASS
			30~1000	-4.17	-56.45	≤ -24.17	PASS
			1000~26500	-4.17	-46.69	≤ -24.17	PASS
		2480	Reference	-3.88	-3.88	---	PASS
			30~1000	-3.88	-56.6	≤ -23.88	PASS
			1000~26500	-3.88	-47.24	≤ -23.88	PASS

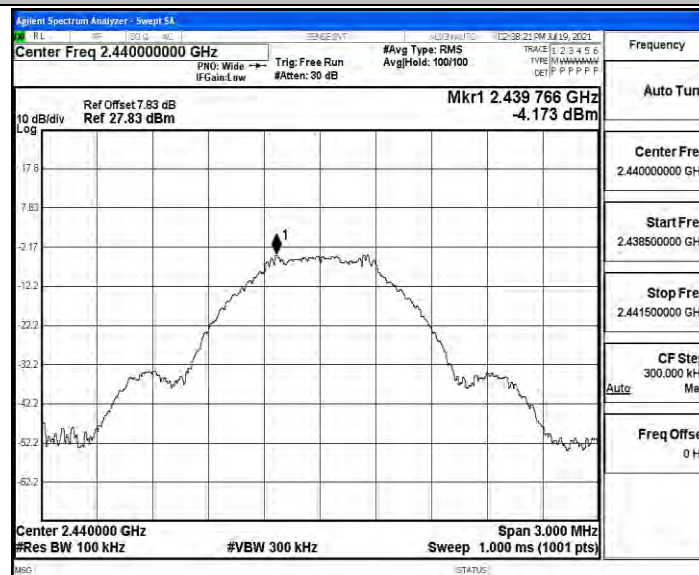


Test Graphs

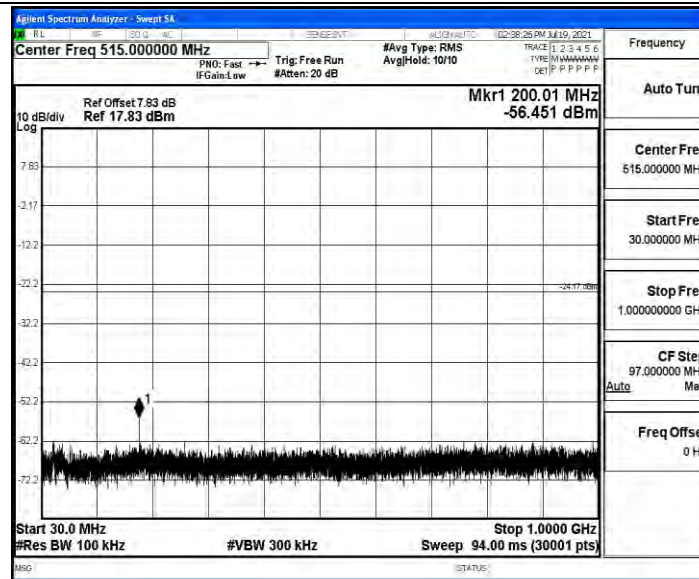




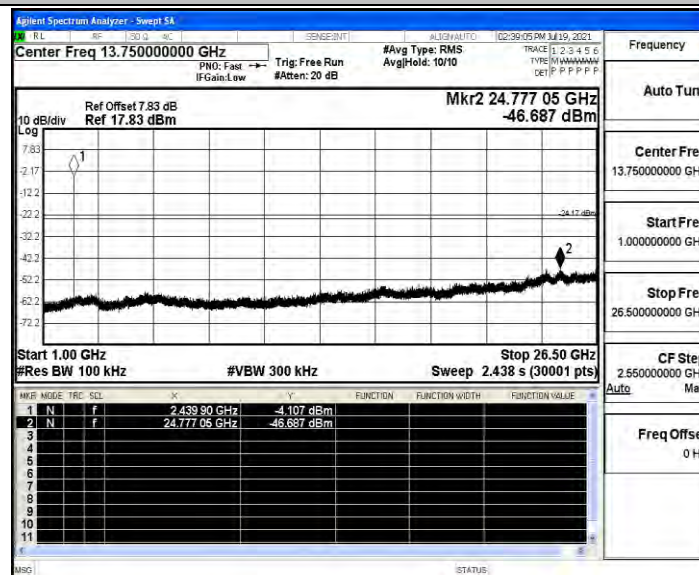
BLE_1M_Ant1_2402_1000~26500



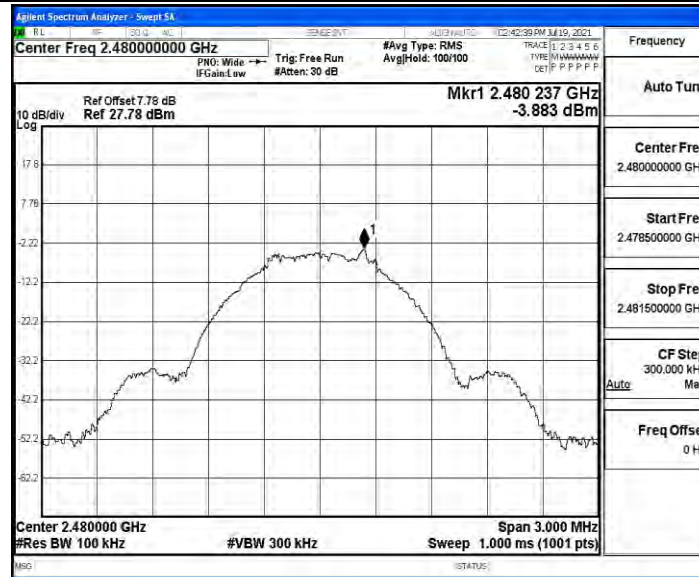
BLE_1M_Ant1_2440_0~Reference



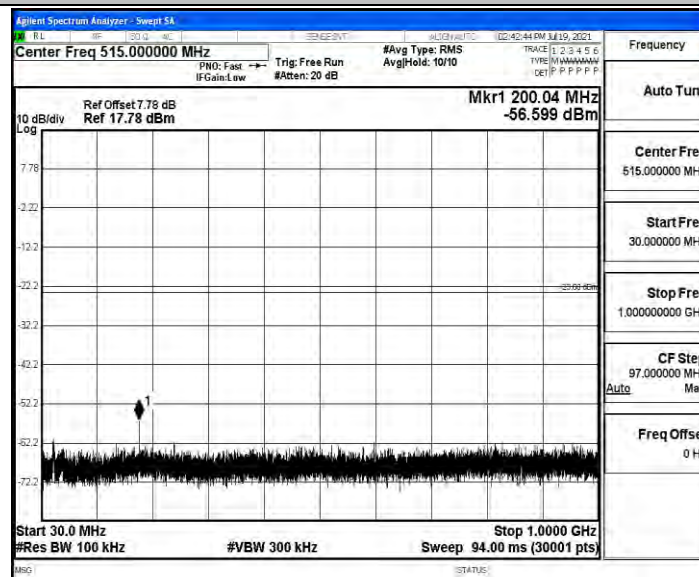
BLE_1M_Ant1_2440_30~1000



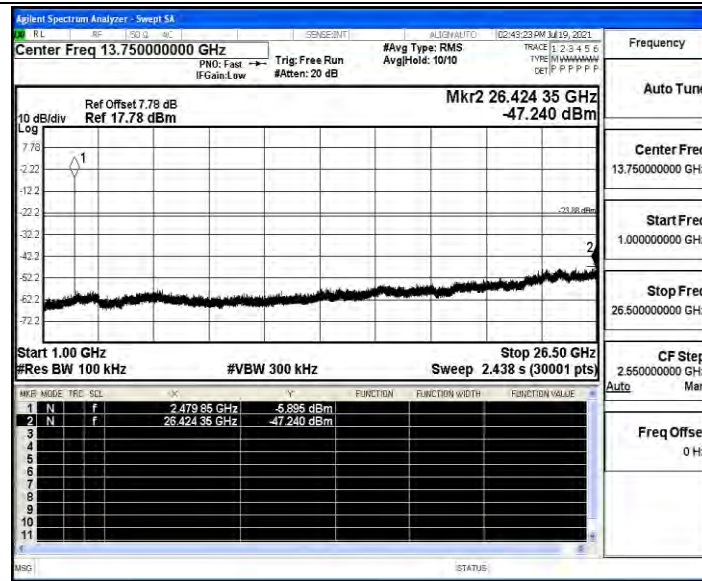
BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



Appendix B.7: Emissions in Restricted Bands

Test Result

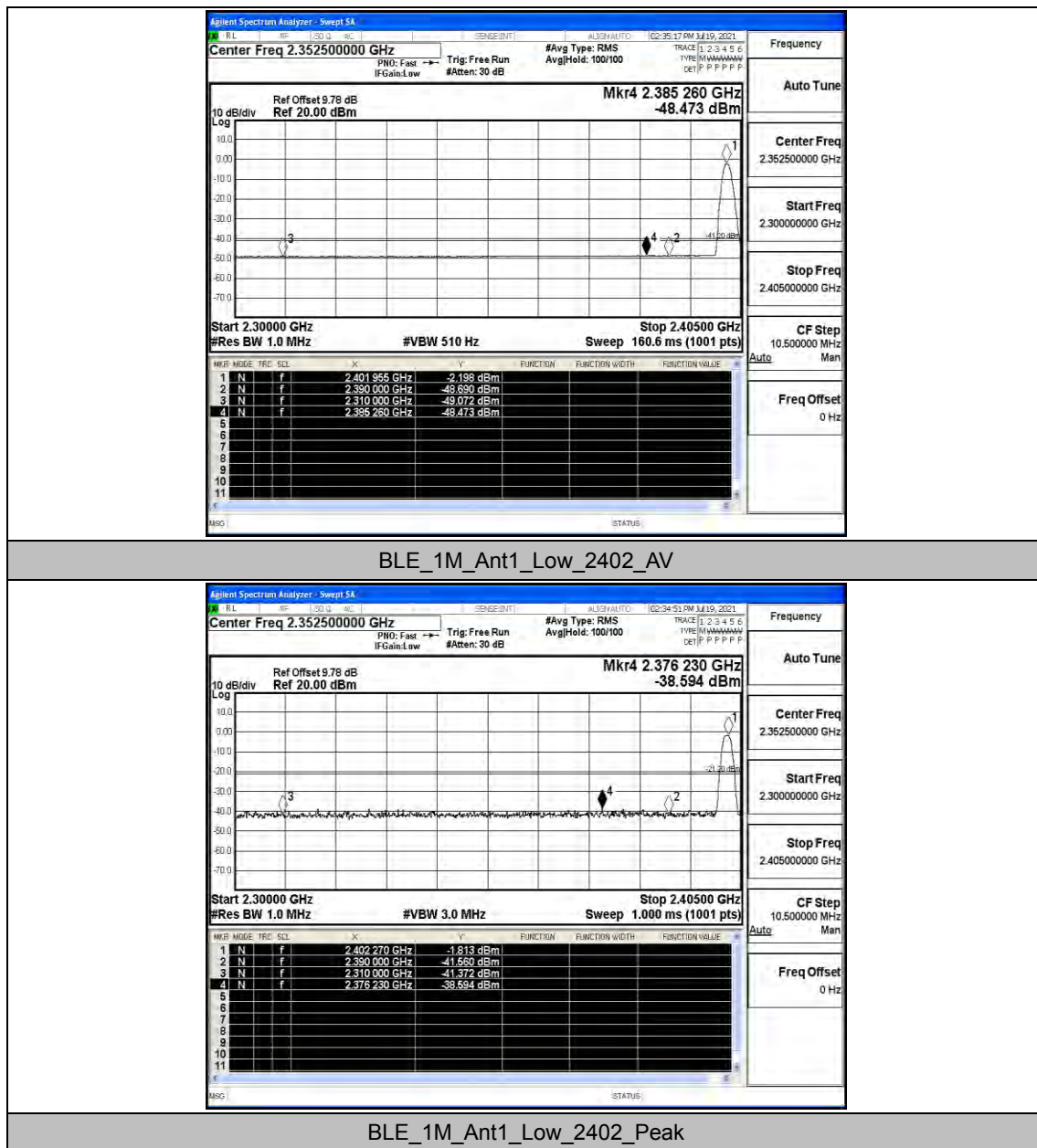
TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-49.07	≤-41.20	48.16	≤54	PASS
				AV	2385.260	-48.47	≤-41.20	48.76	≤54	PASS
				AV	2390.000	-48.69	≤-41.20	48.54	≤54	PASS
				Peak	2310.000	-41.37	≤-21.20	55.86	≤74	PASS
				Peak	2376.230	-38.59	≤-21.20	58.64	≤74	PASS
				Peak	2390.000	-41.56	≤-21.20	55.67	≤74	PASS
		High	2480	AV	2483.500	-48.05	≤-41.20	49.18	≤54	PASS
				AV	2499.440	-47.91	≤-41.20	49.32	≤54	PASS
				AV	2500.000	-48.06	≤-41.20	49.17	≤54	PASS
				Peak	2483.500	-39.79	≤-21.20	57.44	≤74	PASS
				Peak	2484.000	-37.88	≤-21.20	59.35	≤74	PASS
				Peak	2500.000	-42.42	≤-21.20	54.81	≤74	PASS

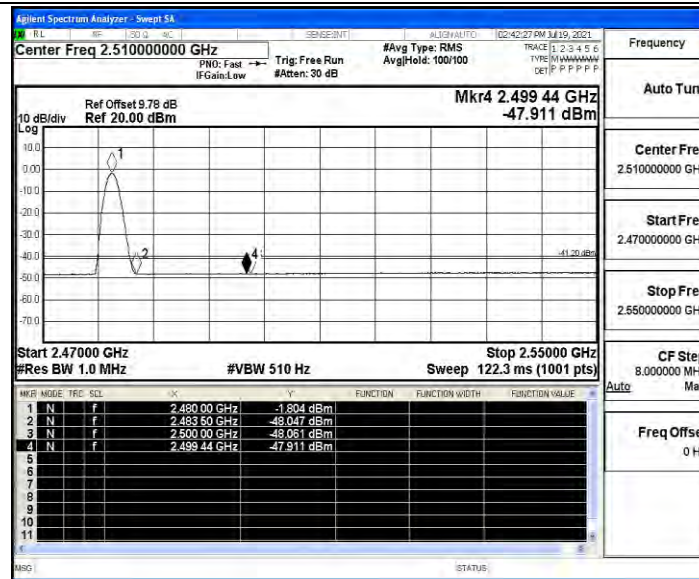
Note:

1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

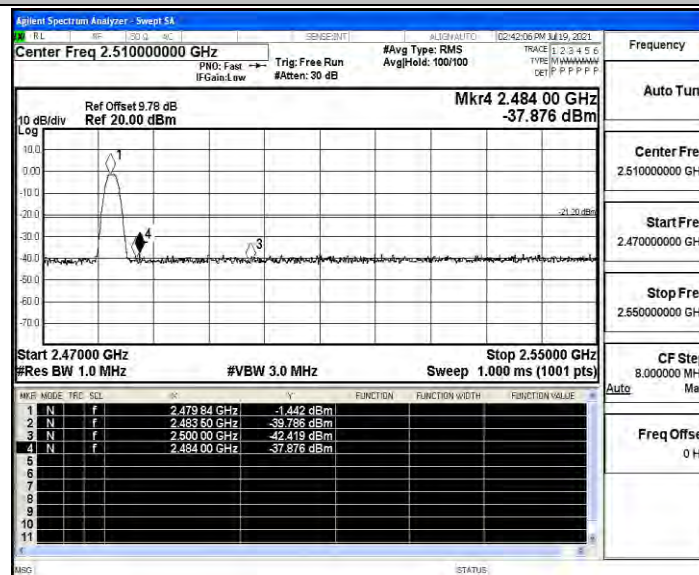


Test Graphs





BLE_1M_Ant1_High_2480_AV



BLE_1M_Ant1_High_2480_Peak