



Appendix A

RF Test Data for BLE (Conducted Measurement)

Product Name: Remote Control

Test Model: AMT-SRC802V-BL

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	monkey.li
Supervised by:	Libin



A.1 6dB Bandwidth

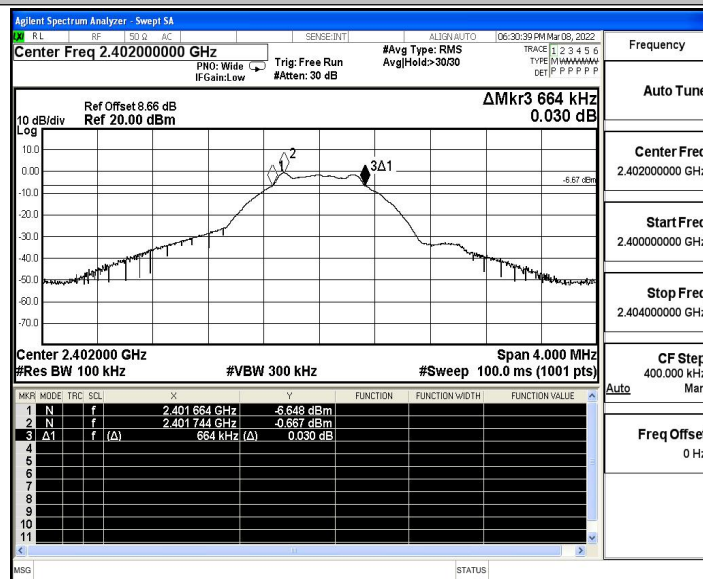
Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.664	2401.664	2402.328	0.5	PASS
		2440	0.664	2439.664	2440.328	0.5	PASS
		2480	0.660	2479.664	2480.324	0.5	PASS

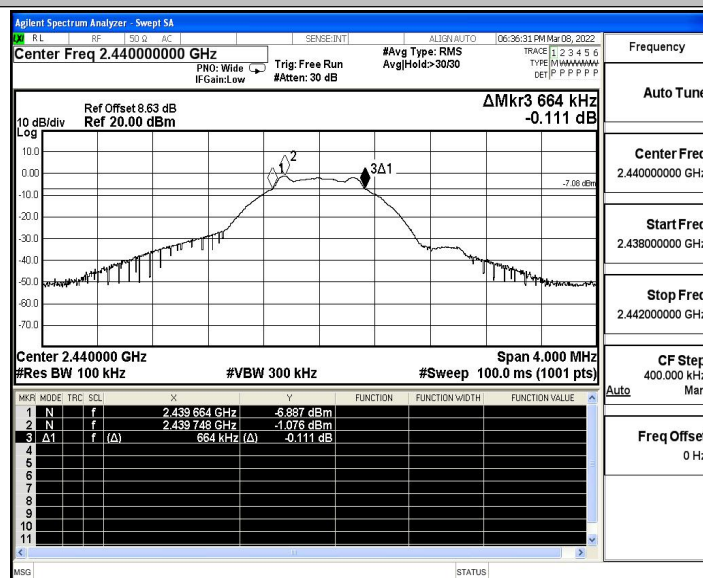


Test Graphs

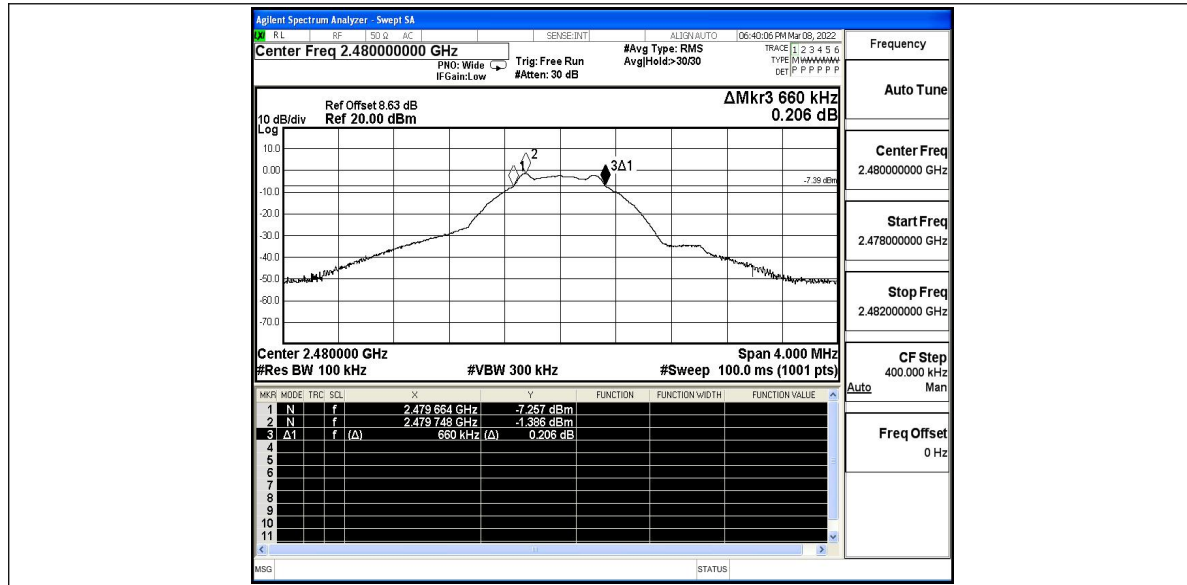
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



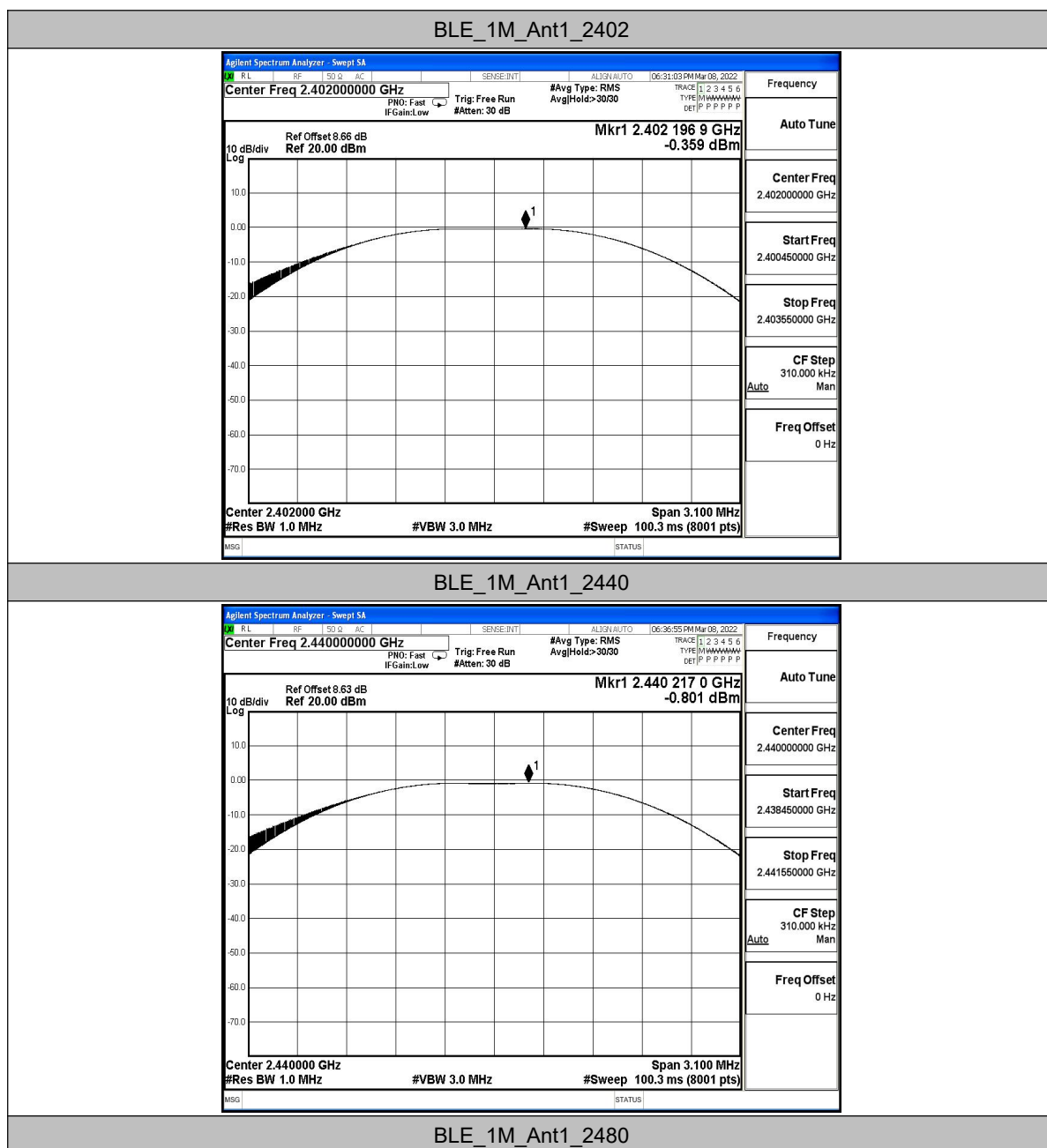


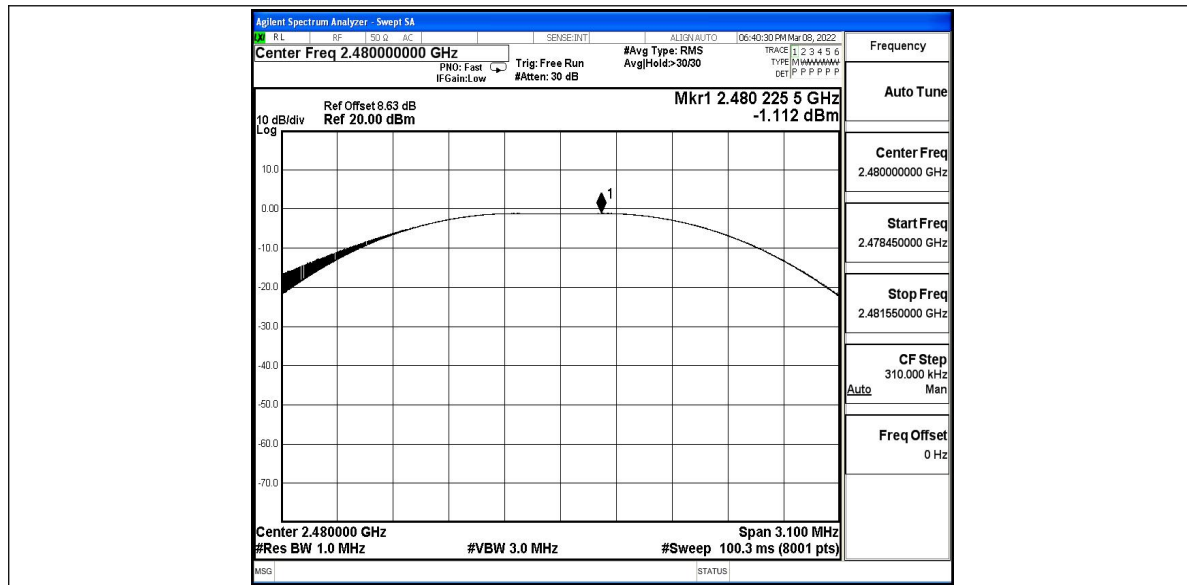
A.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.36	≤30	PASS
		2440	-0.8	≤30	PASS
		2480	-1.11	≤30	PASS

Test Graphs





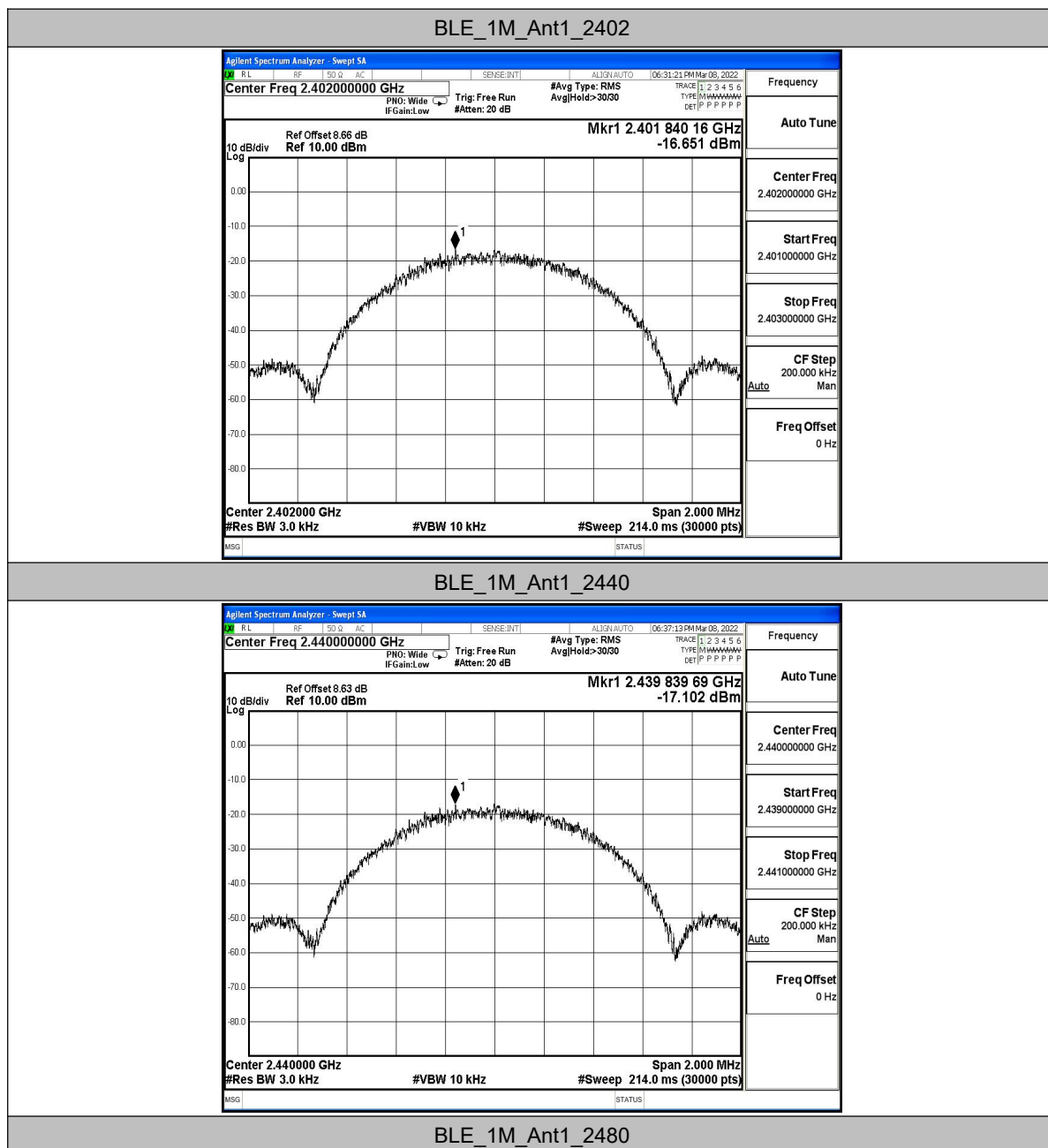


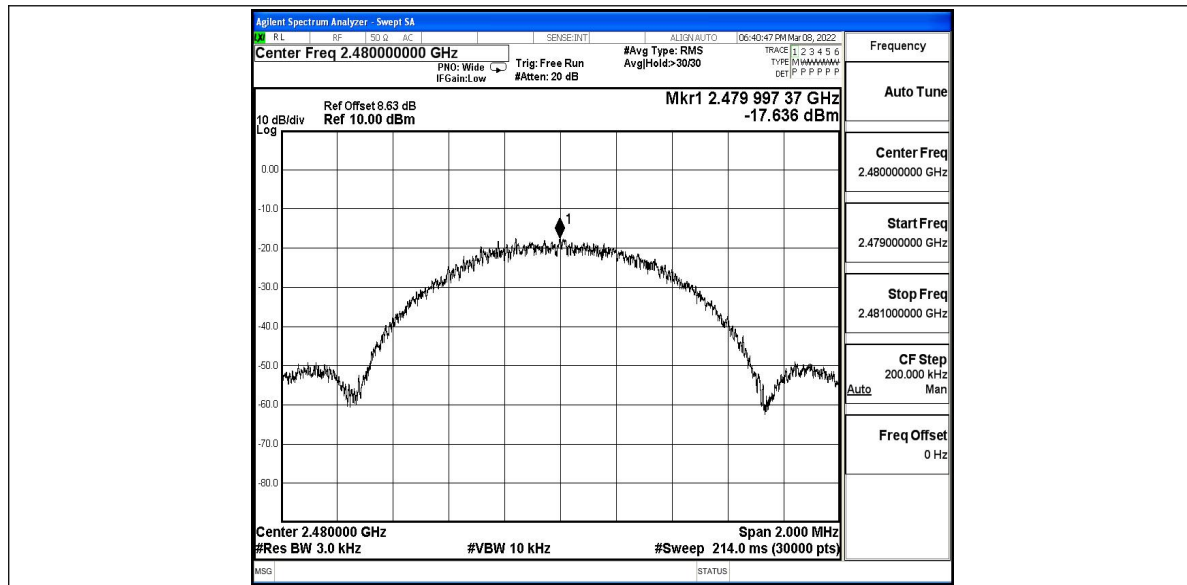
A.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.65	≤8.00	PASS
		2440	-17.1	≤8.00	PASS
		2480	-17.64	≤8.00	PASS

Test Graphs





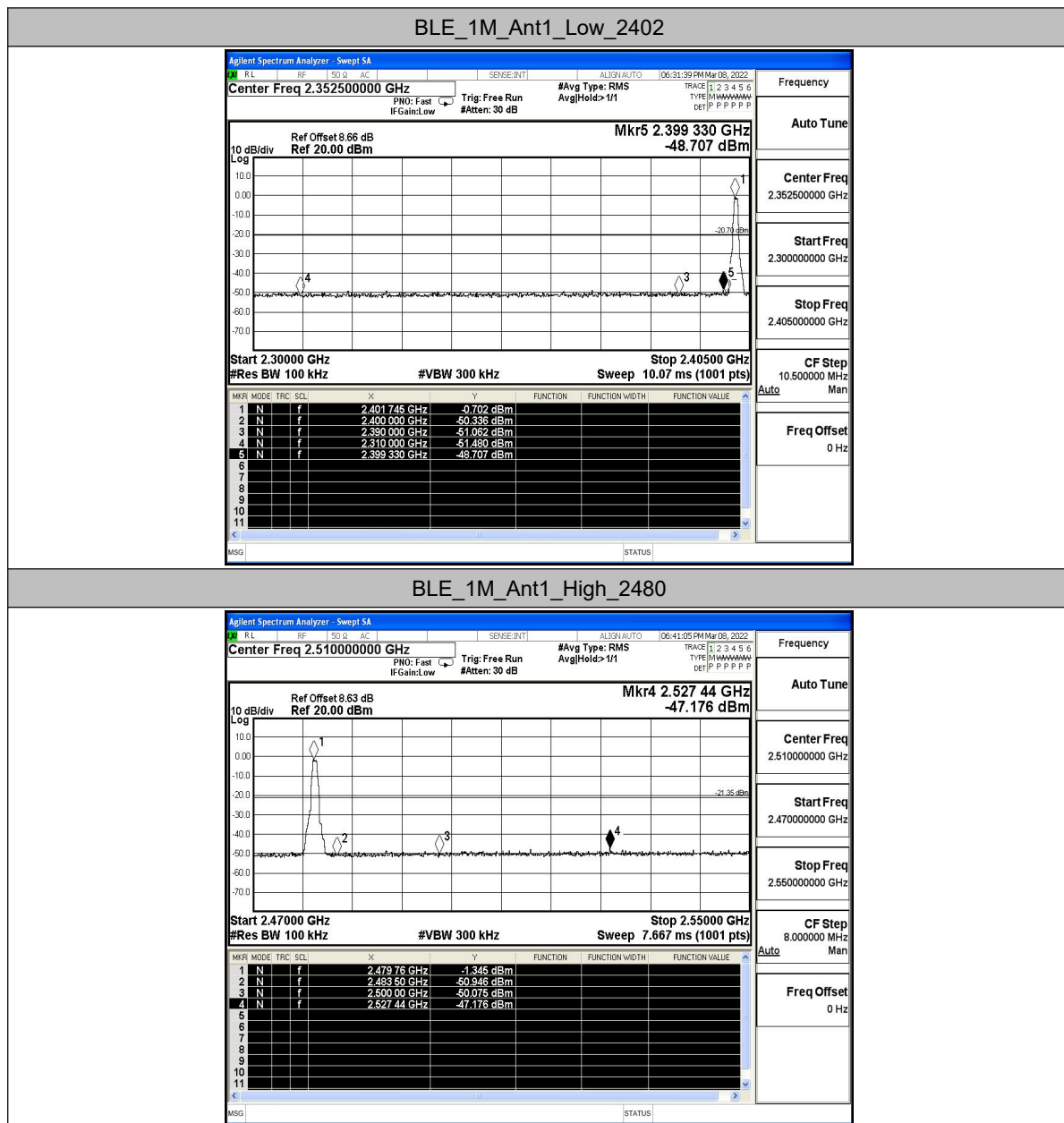


A.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.70	-48.71	≤-20.7	PASS
		High	2480	-1.35	-47.18	≤-21.35	PASS

Test Graphs





A.5 Conducted Spurious Emission

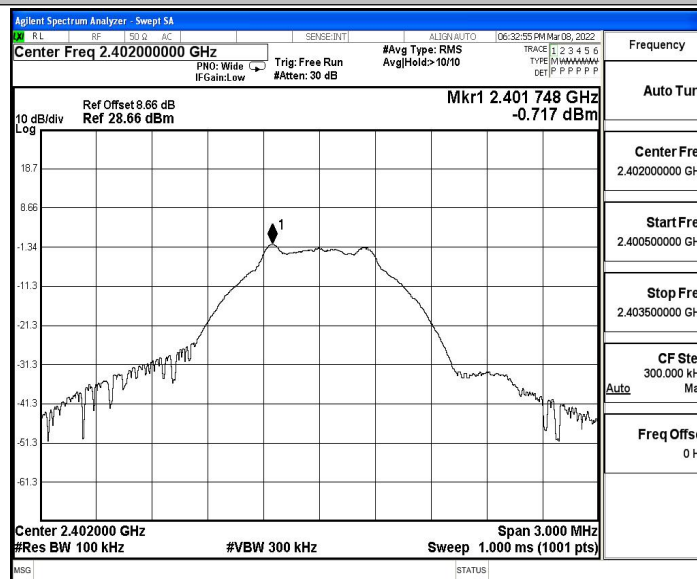
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-0.72	-0.72	---	PASS
			30~1000	-0.72	-60.87	≤ -20.72	PASS
			1000~26500	-0.72	-45.91	≤ -20.72	PASS
		2440	Reference	-1.08	-1.08	---	PASS
			30~1000	-1.08	-60.96	≤ -21.08	PASS
			1000~26500	-1.08	-46.29	≤ -21.08	PASS
		2480	Reference	-1.38	-1.38	---	PASS
			30~1000	-1.38	-60.93	≤ -21.38	PASS
			1000~26500	-1.38	-46.07	≤ -21.38	PASS

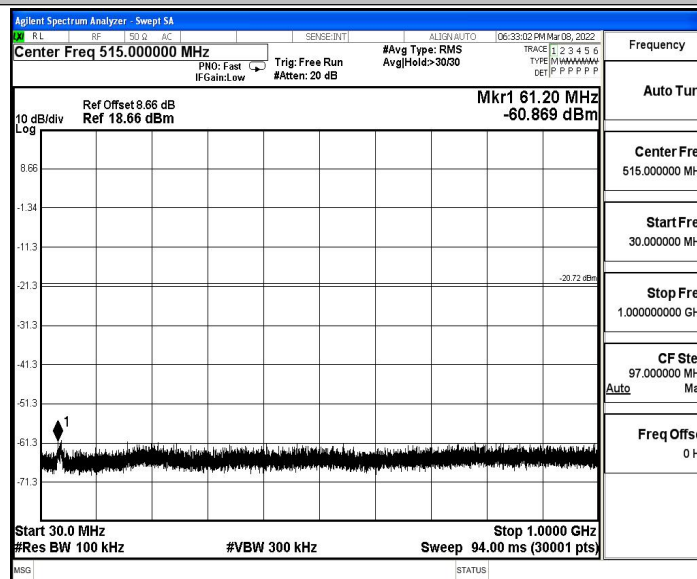


Test Graphs

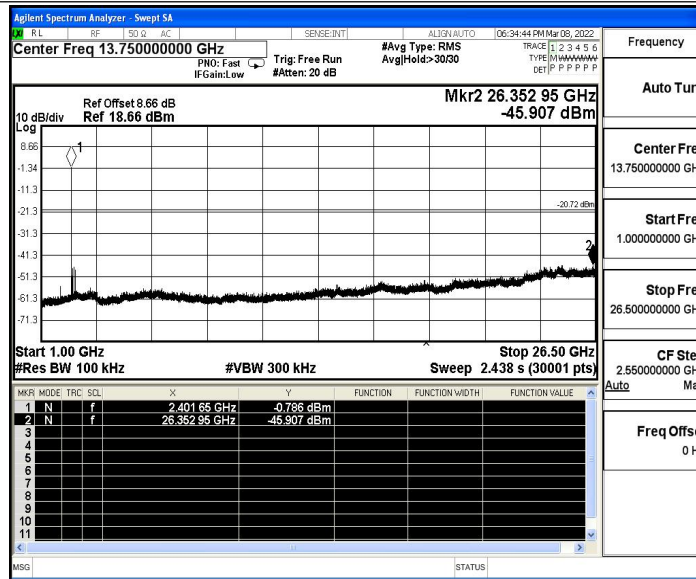
BLE_1M_Ant1_2402_0~Reference



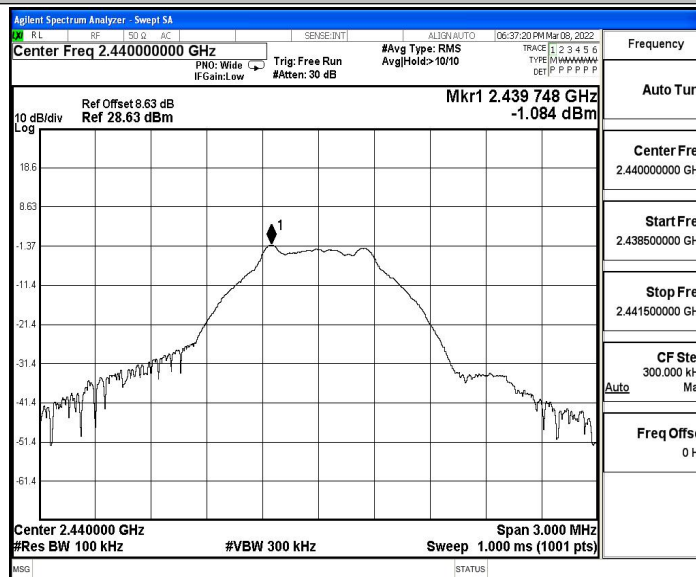
BLE_1M_Ant1_2402_30~1000



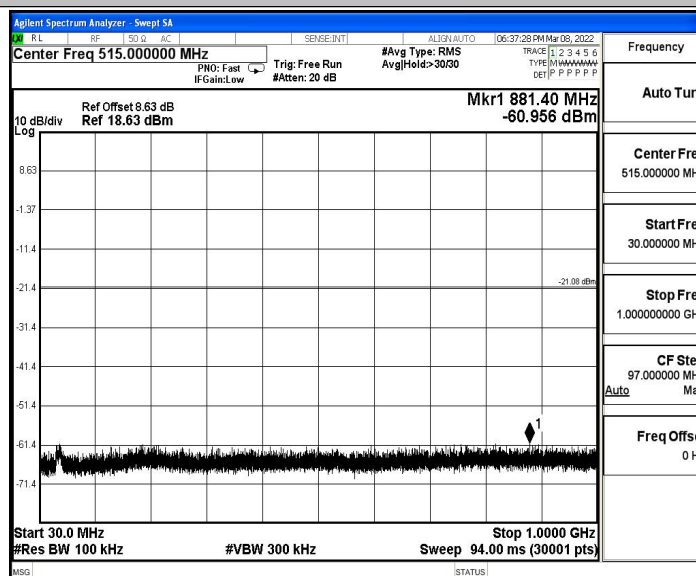
BLE_1M_Ant1_2402_1000~26500



BLE_1M_Ant1_2440_0~Reference

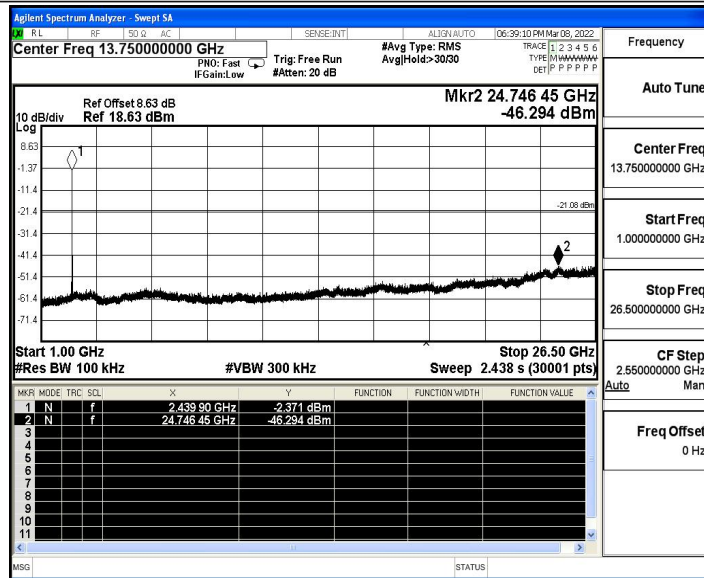


BLE_1M_Ant1_2440_30~1000

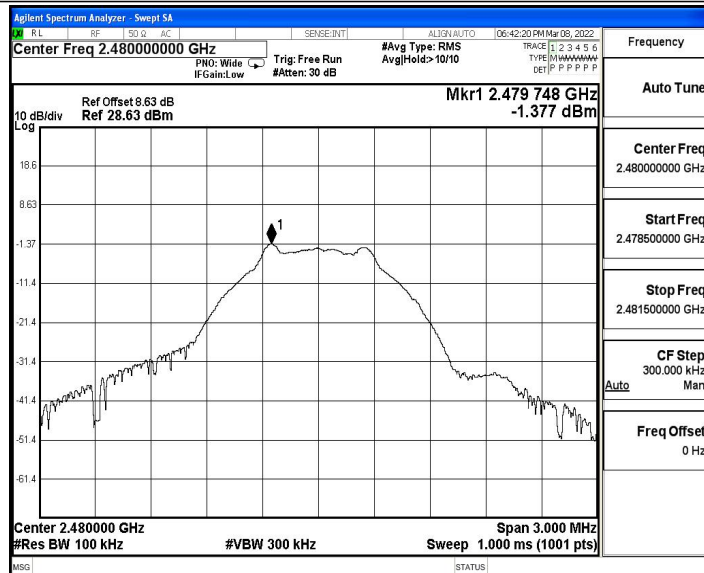




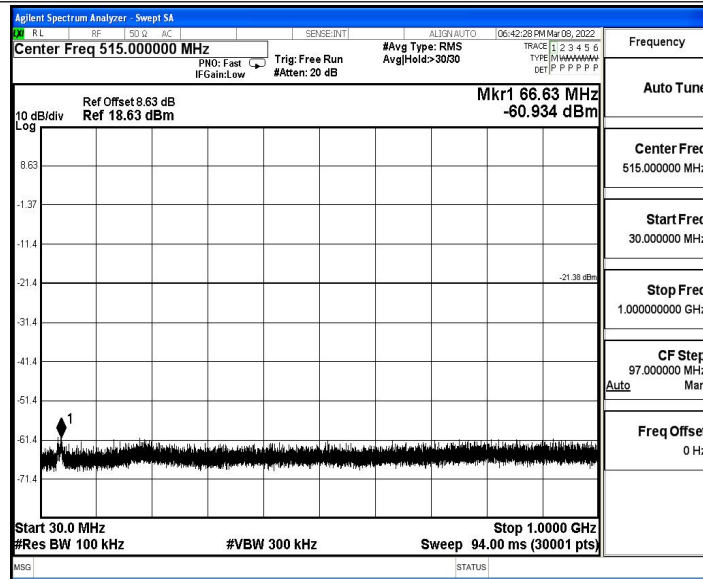
BLE_1M_Ant1_2440_1000~26500



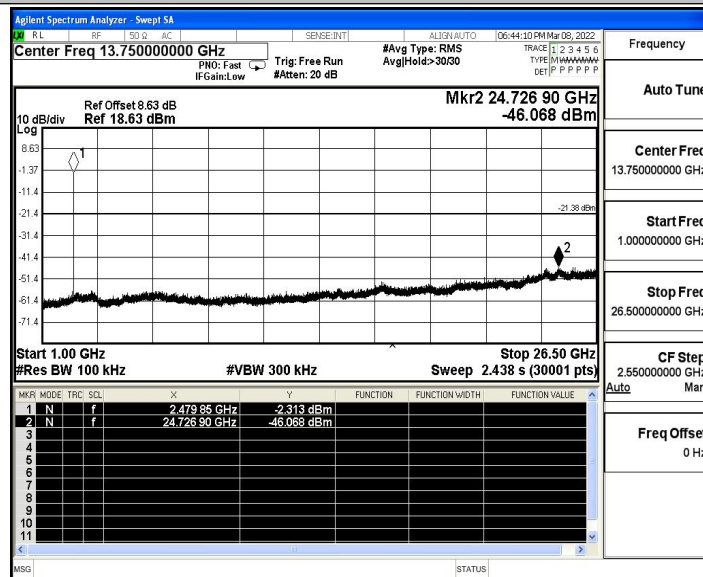
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



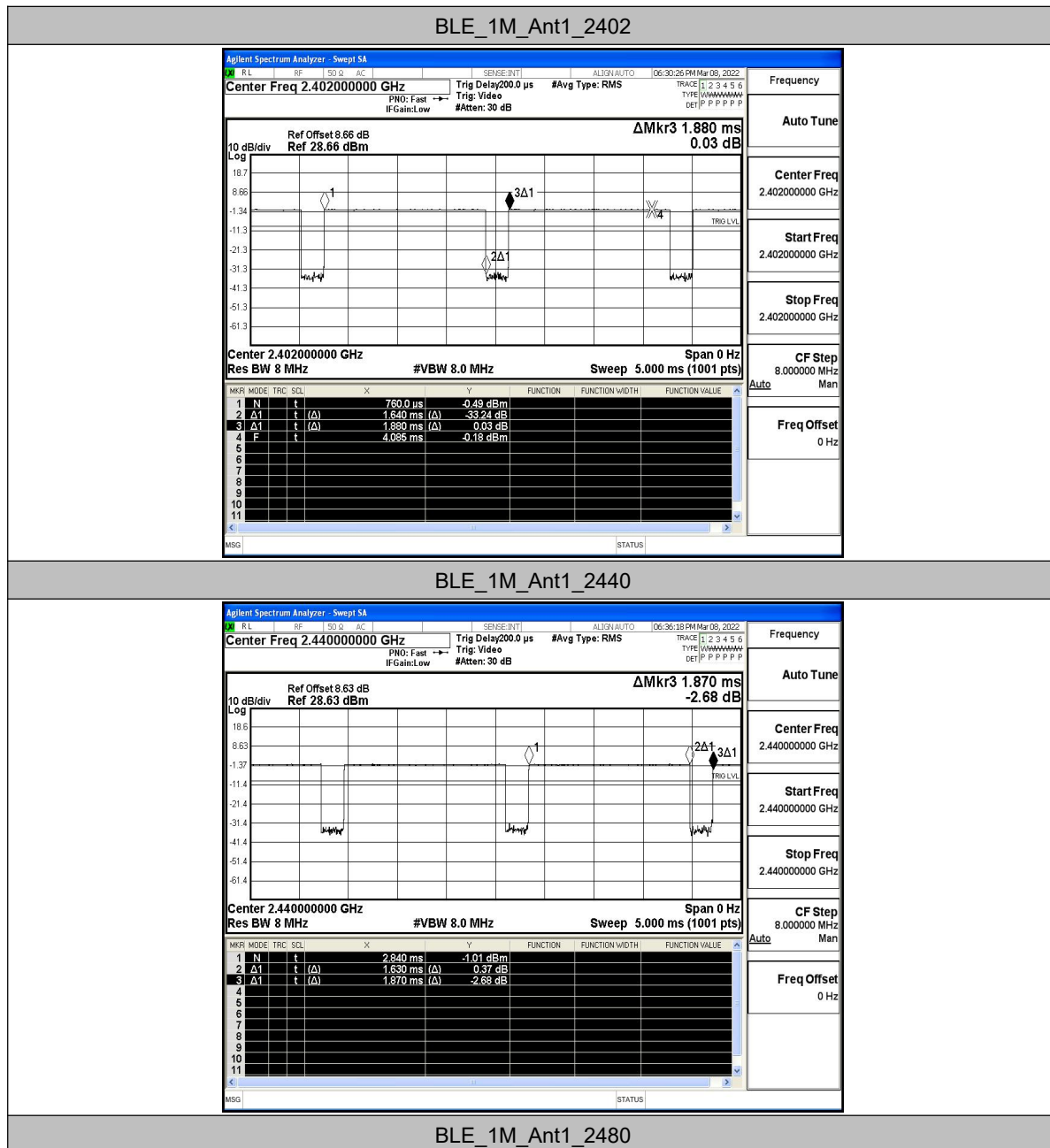


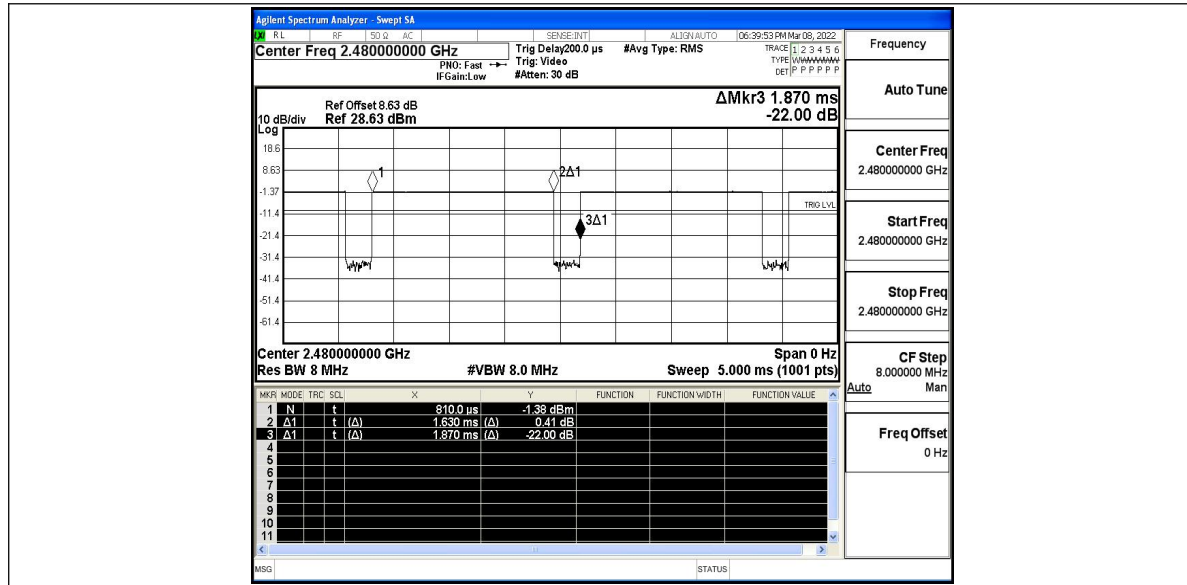
A.6 Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor (kHz)	Limit	Verdict
BLE_1M	Ant1	2402	1.64	1.88	0.8723	87.23	0.59	---	---
		2440	1.63	1.87	0.8717	87.17	0.60	---	---
		2480	1.63	1.87	0.8717	87.17	0.60	---	---

Test Graphs







A.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	-48.11	≤-41.20	47.09	≤54	PASS
				AV	2375.495	-47.53	≤-41.20	47.67	≤54	PASS
				AV	2390.000	-47.82	≤-41.20	47.38	≤54	PASS
				Peak	2310.000	-38.78	≤-21.20	56.42	≤74	PASS
				Peak	2383.685	-36.61	≤-21.20	58.59	≤74	PASS
				Peak	2390.000	-38.4	≤-21.20	56.80	≤74	PASS
		High	2480	AV	2483.500	-46.97	≤-41.20	48.23	≤54	PASS
				AV	2483.520	-46.97	≤-41.20	48.23	≤54	PASS
				AV	2500.000	-47.25	≤-41.20	47.95	≤54	PASS
				Peak	2483.500	-36.42	≤-21.20	58.78	≤74	PASS
				Peak	2483.520	-36.42	≤-21.20	58.78	≤74	PASS
				Peak	2500.000	-38.27	≤-21.20	56.93	≤74	PASS

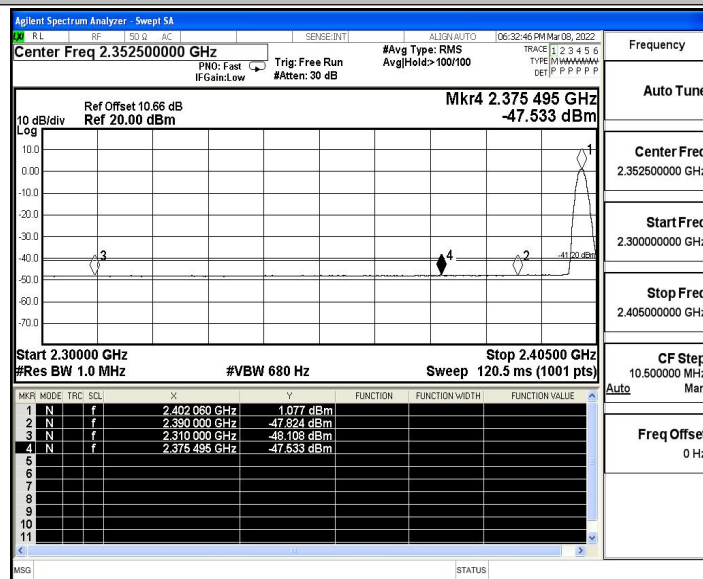
Note:

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.

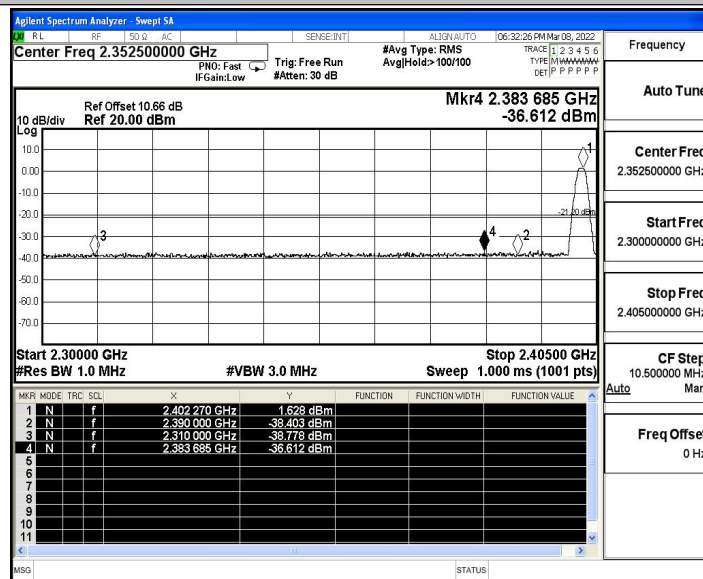


Test Graphs

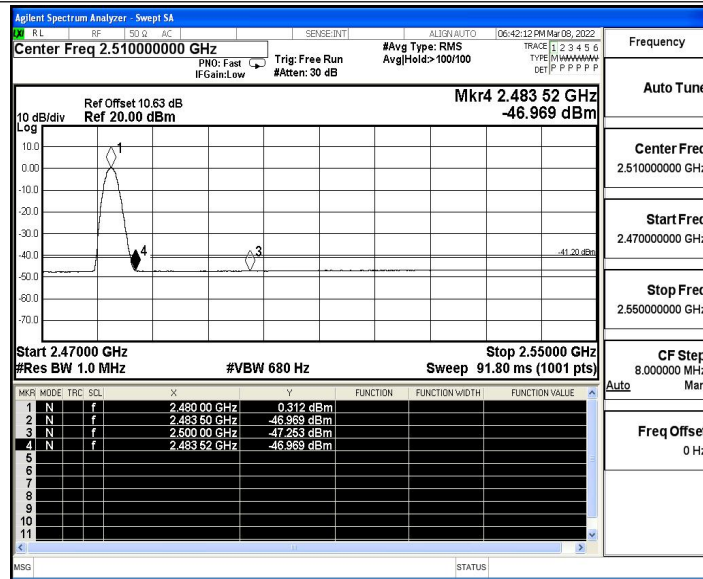
BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV



BLE_1M_Ant1_High_2480_Peak

