



Appendix A

RF Test Data for BT V5.0(Conducted Measurement)

Product Name: Hunting Camera

Test Model: NDL-W10

Environmental Conditions

Temperature:	21.1 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Carl Fu
Supervised by:	Huan Li

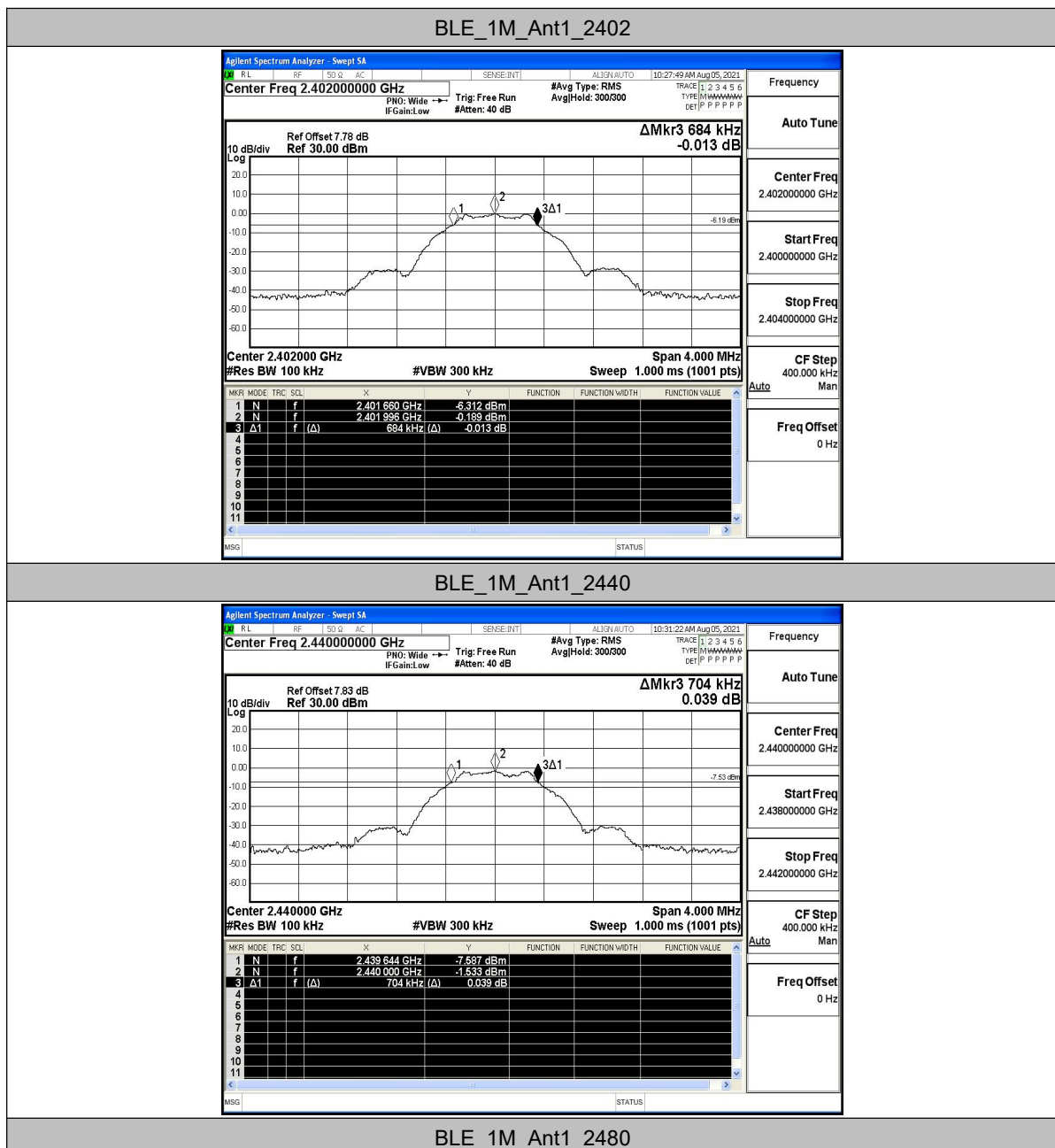


A.1 DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.684	2401.660	2402.344	≥0.5	PASS
		2440	0.704	2439.644	2440.348	≥0.5	PASS
		2480	0.700	2479.644	2480.344	≥0.5	PASS

Test Graphs





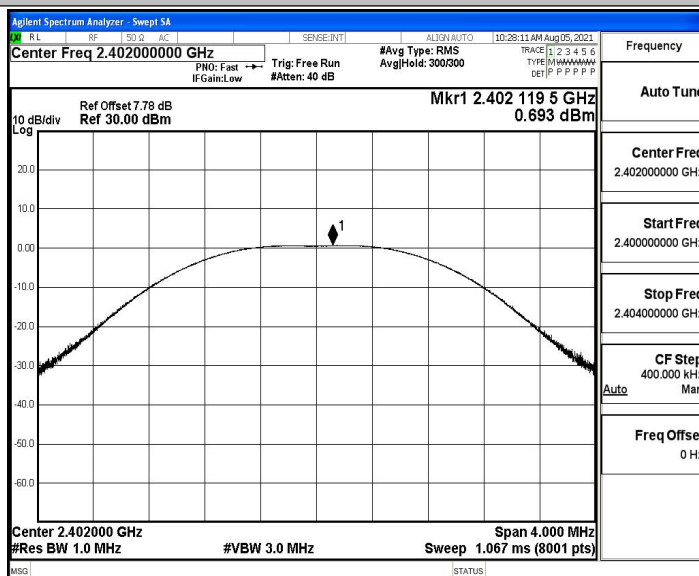
A.2 Maximum conducted output power

Test Result

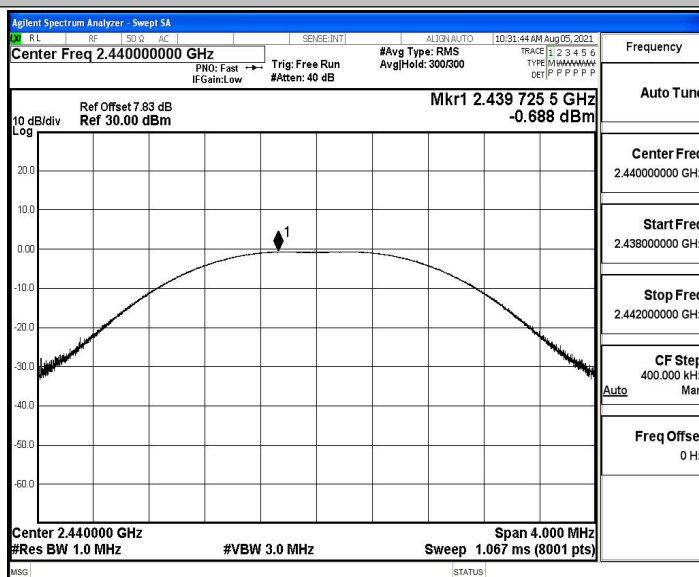
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.69	≤30	PASS
		2440	-0.69	≤30	PASS
		2480	0.59	≤30	PASS

Test Graphs

BLE_1M_Ant1_2402

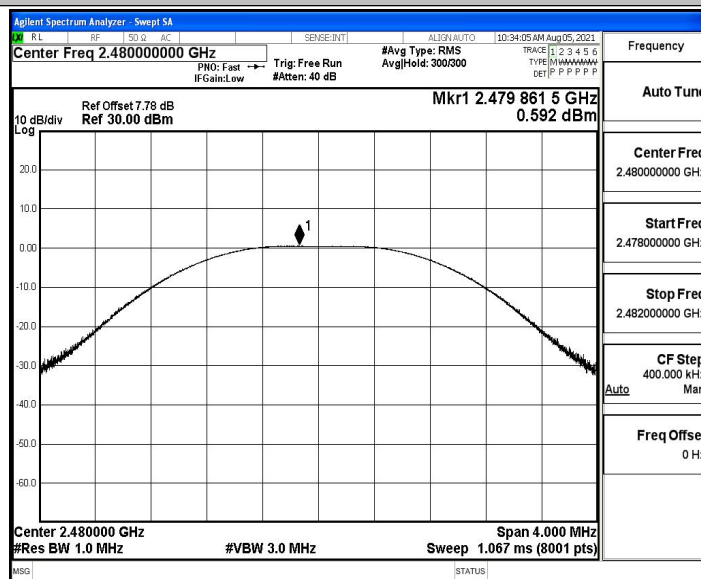


BLE_1M_Ant1_2440





BLE_1M_Ant1_2480





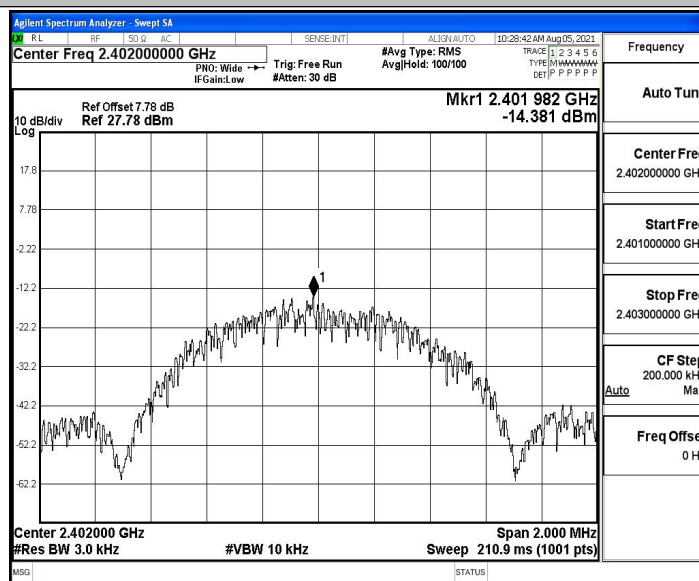
A.3 Maximum power spectral density

Test Result

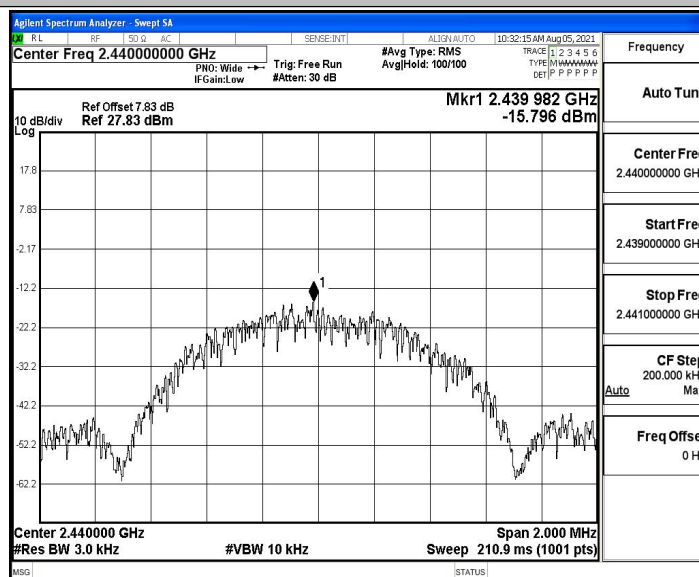
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.38	≤8	PASS
		2440	-15.8	≤8	PASS
		2480	-14.43	≤8	PASS

Test Graphs

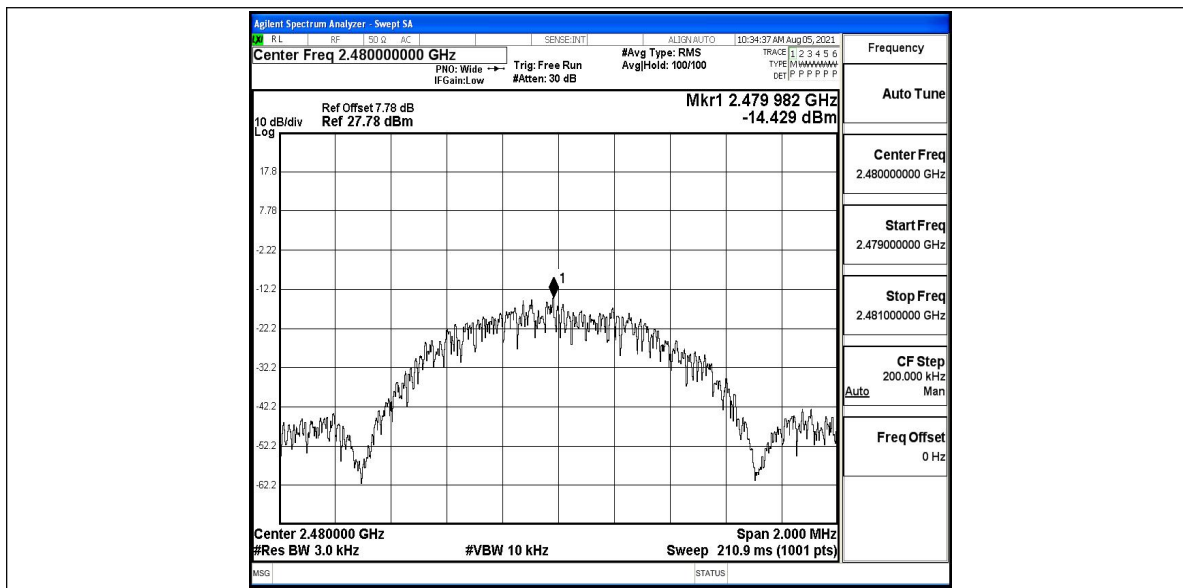
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



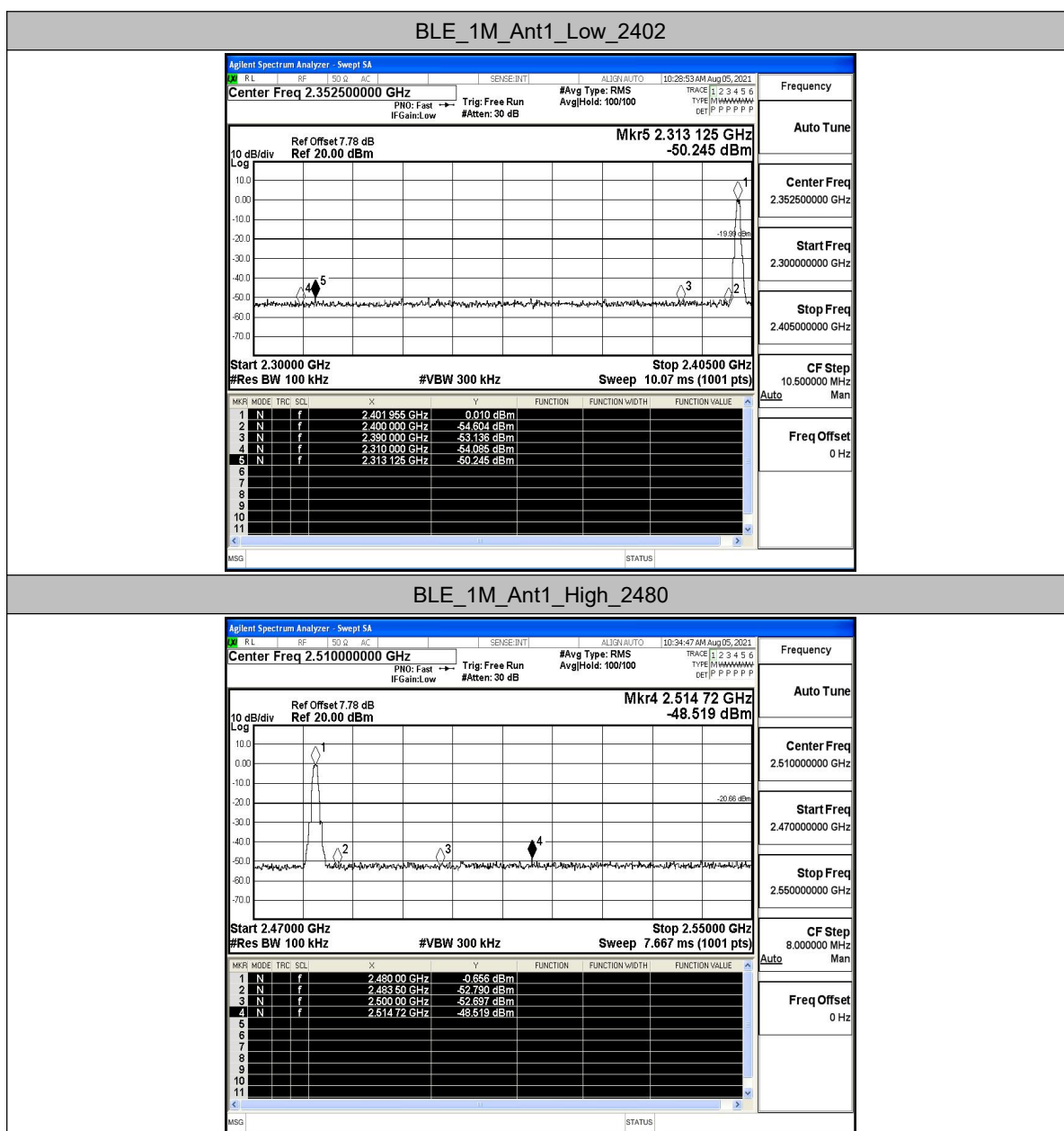


A.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.01	-50.25	≤-19.99	PASS
		High	2480	-0.66	-48.52	≤-20.66	PASS

Test Graphs





A.5 Conducted Spurious Emission

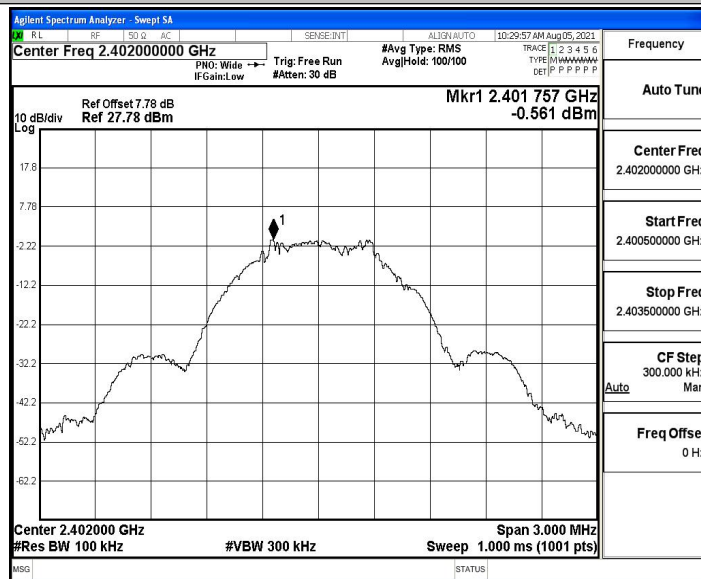
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-0.56	-0.56	---	PASS
			30~1000	-0.56	-61.7	≤ -20.56	PASS
			1000~26500	-0.56	-47.31	≤ -20.56	PASS
		2440	Reference	-1.63	-1.63	---	PASS
			30~1000	-1.63	-62.47	≤ -21.63	PASS
			1000~26500	-1.63	-47.2	≤ -21.63	PASS
		2480	Reference	-0.48	-0.48	---	PASS
			30~1000	-0.48	-62.23	≤ -20.48	PASS
			1000~26500	-0.48	-46.96	≤ -20.48	PASS

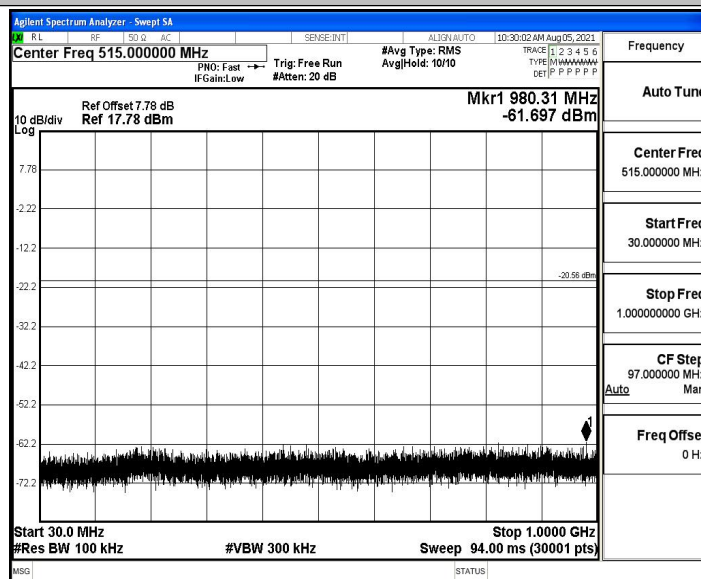


Test Graphs

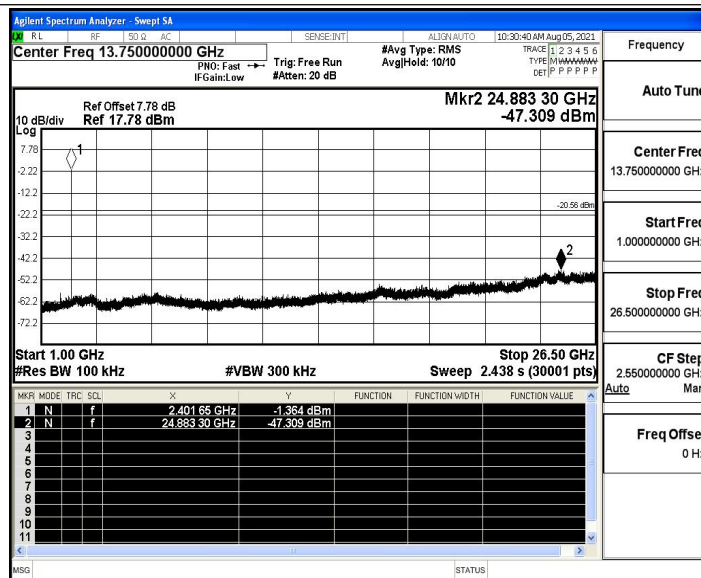
BLE_1M_Ant1_2402_0~Reference



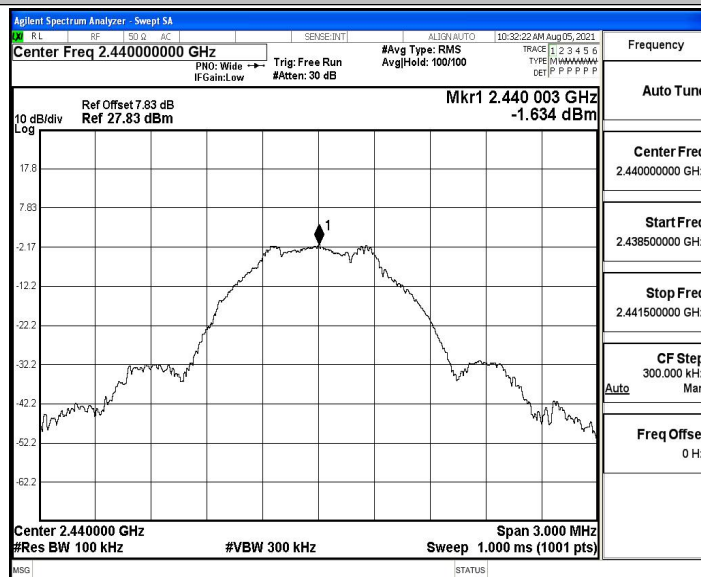
BLE_1M_Ant1_2402_30~1000



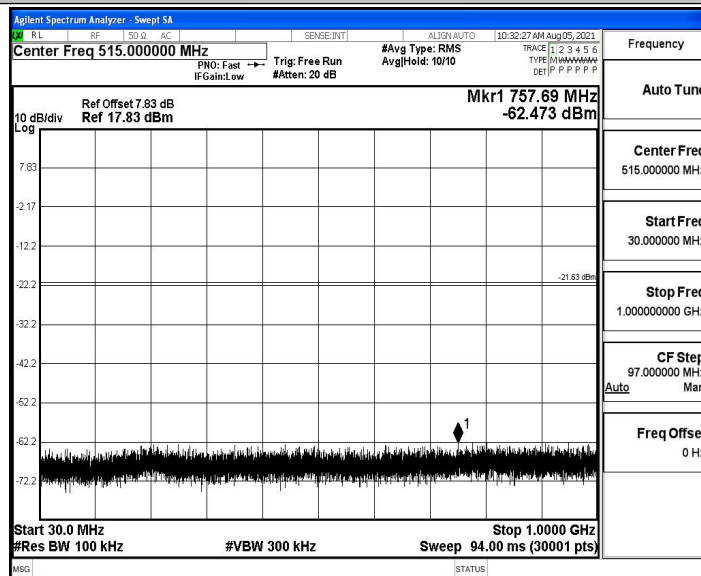
BLE_1M_Ant1_2402_1000~26500



BLE_1M_Ant1_2440_0~Reference

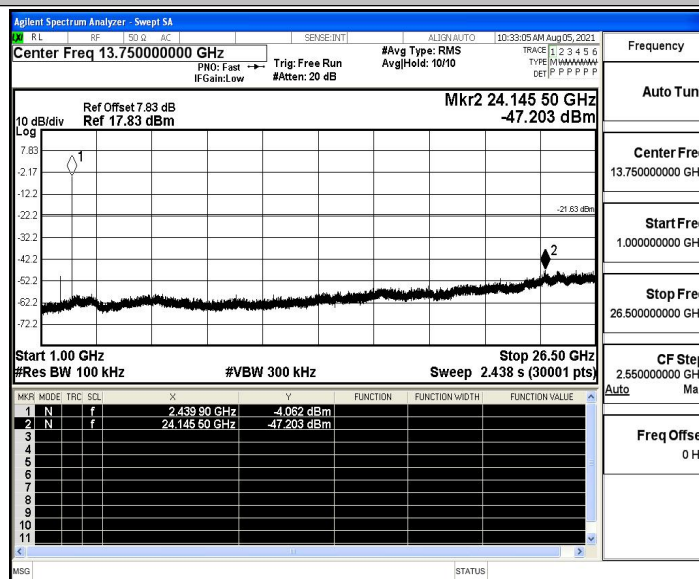


BLE_1M_Ant1_2440_30~1000

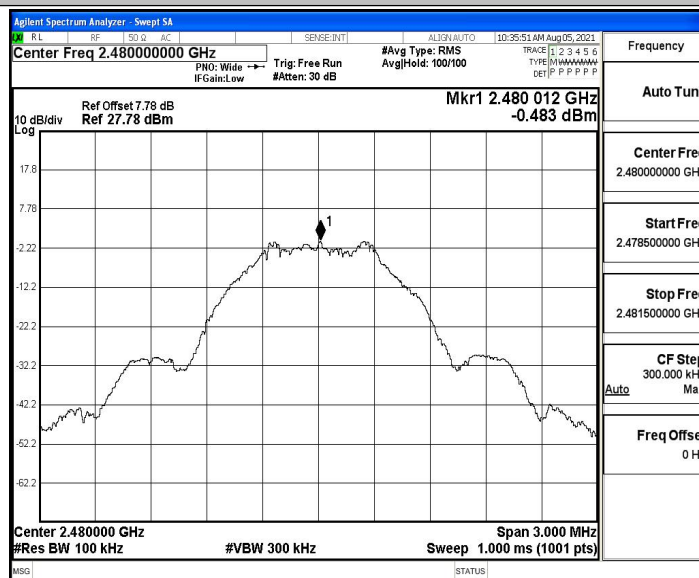




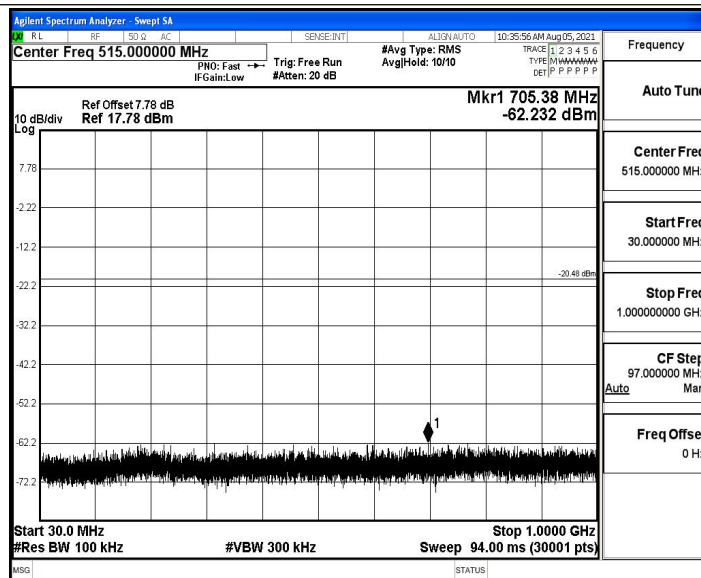
BLE_1M_Ant1_2440_1000~26500



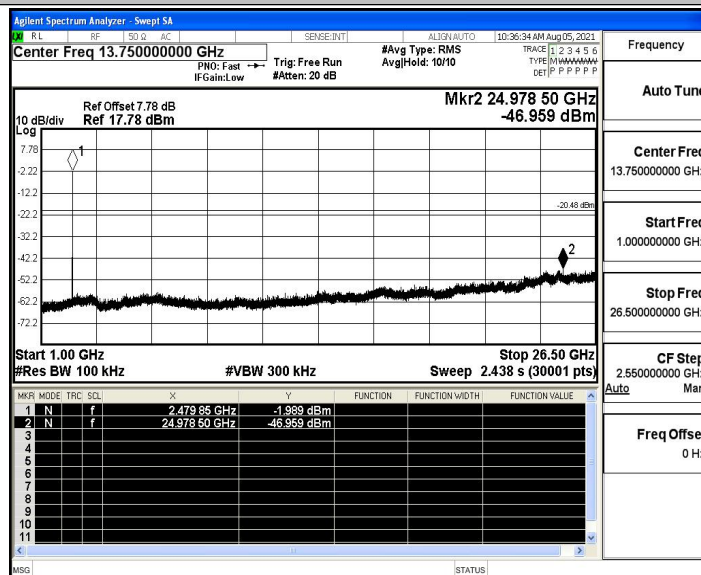
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500





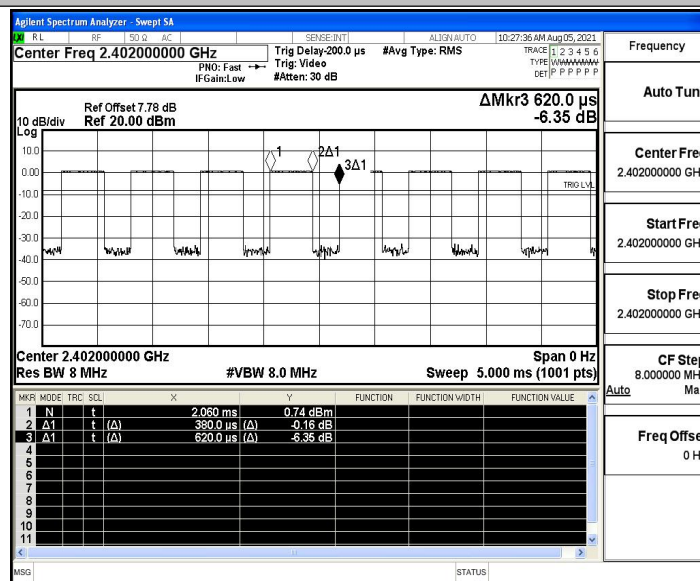
A.6 Duty Cycle

Test Result

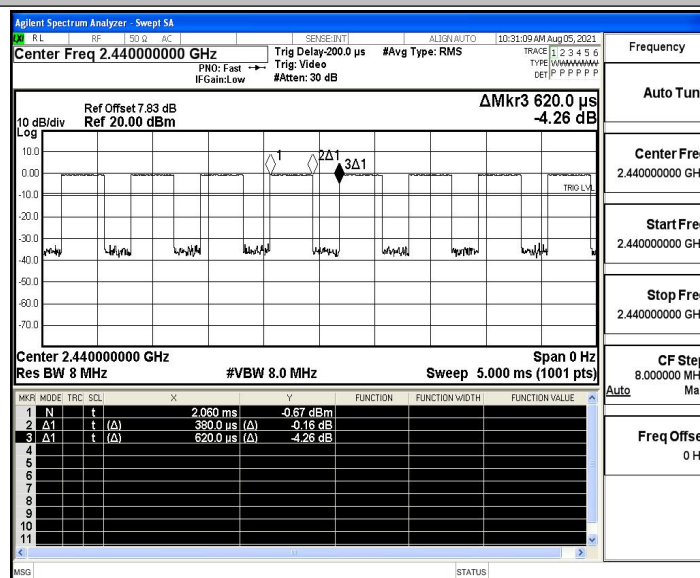
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.38	0.62	0.6129	61.29	2.13	---	PASS
		2440	0.38	0.62	0.6129	61.29	2.13	---	PASS
		2480	0.38	0.63	0.6032	60.32	2.20	---	PASS

Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



A.7 Emissions in Restricted Bands

Test Result

TestM ode	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	-48.47	≤-41.20	46.73	≤54	PASS
				AV	2364.050	-47.77	≤-41.20	47.43	≤54	PASS
				AV	2390.000	-48.24	≤-41.20	46.96	≤54	PASS
				Peak	2310.000	-40.6	≤-21.20	54.60	≤74	PASS
				Peak	2359.010	-38.25	≤-21.20	56.95	≤74	PASS
				Peak	2390.000	-42.09	≤-21.20	53.11	≤74	PASS
		High	2480	AV	2483.500	-47.32	≤-41.20	47.88	≤54	PASS
				AV	2491.040	-47.3	≤-41.20	47.90	≤54	PASS
				AV	2500.000	-47.63	≤-41.20	47.57	≤54	PASS
				Peak	2483.500	-40.98	≤-21.20	54.22	≤74	PASS
				Peak	2490.640	-38.95	≤-21.20	56.25	≤74	PASS
				Peak	2500.000	-40.47	≤-21.20	54.73	≤74	PASS

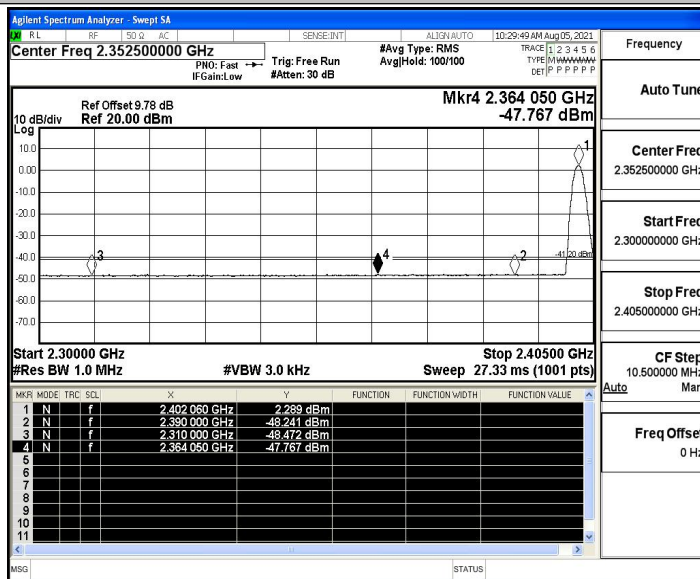
Note:

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.

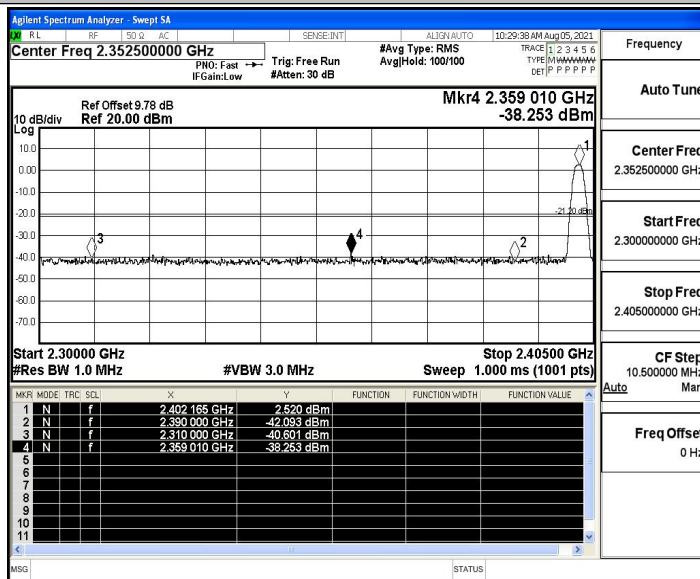


Test Graphs

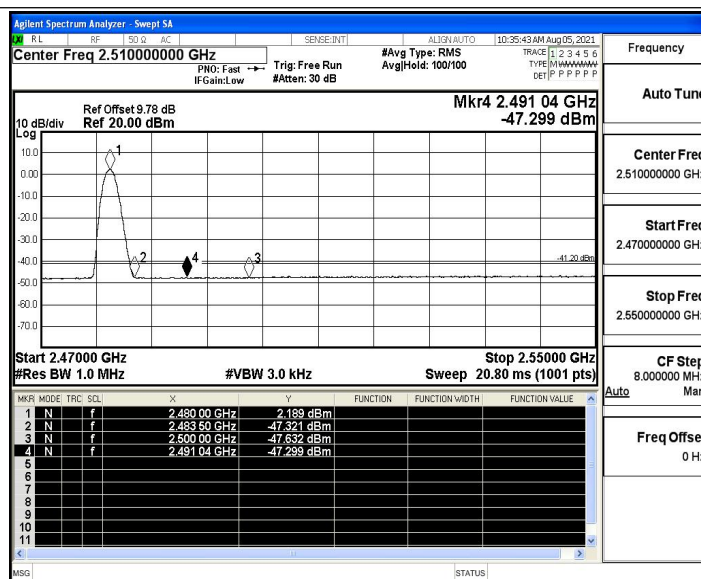
BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV



BLE 1M Ant1 High 2480 Peak

