



Appendix B

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

Product Name: Mini Projector

Test Model: D3-H700

Environmental Conditions

Temperature:	23.7℃
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Monkey Li
Supervised by:	Li Huan



B.1 DTS Bandwidth

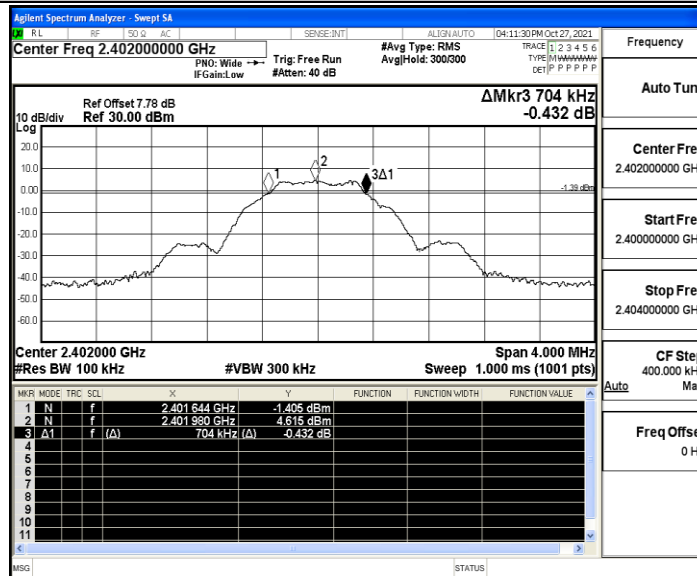
Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.704	2401.644	2402.348	≥ 0.5	PASS
		2440	0.708	2439.640	2440.348	≥ 0.5	PASS
		2480	0.660	2479.668	2480.328	≥ 0.5	PASS

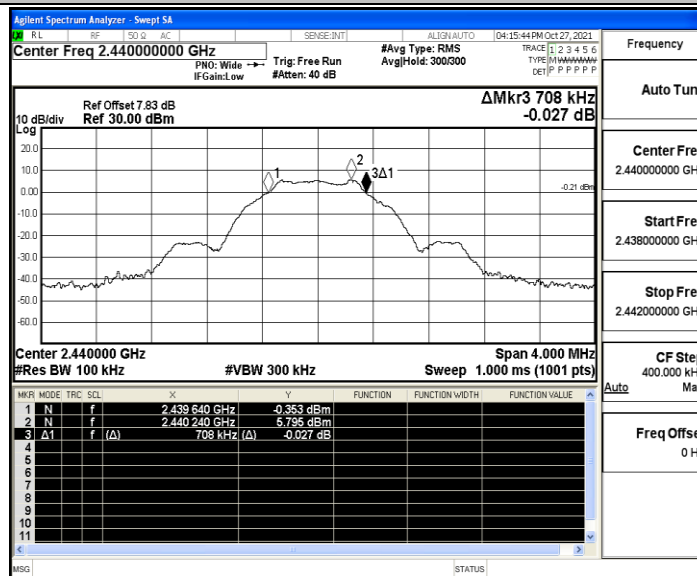


Test Graphs

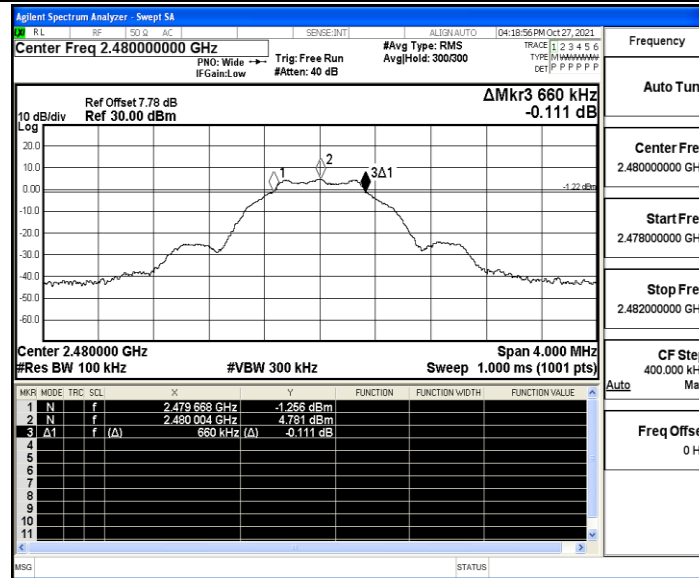
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





B.2 Maximum peak conducted output power

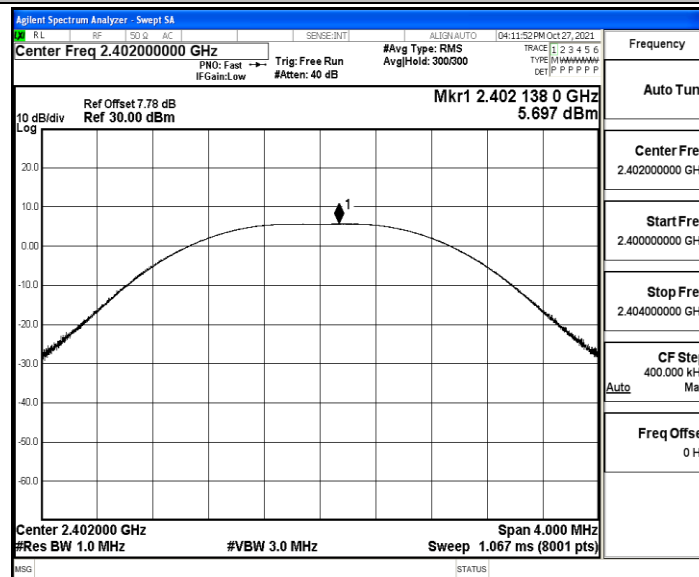
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	5.7	≤30	PASS
		2440	6.85	≤30	PASS
		2480	5.42	≤30	PASS

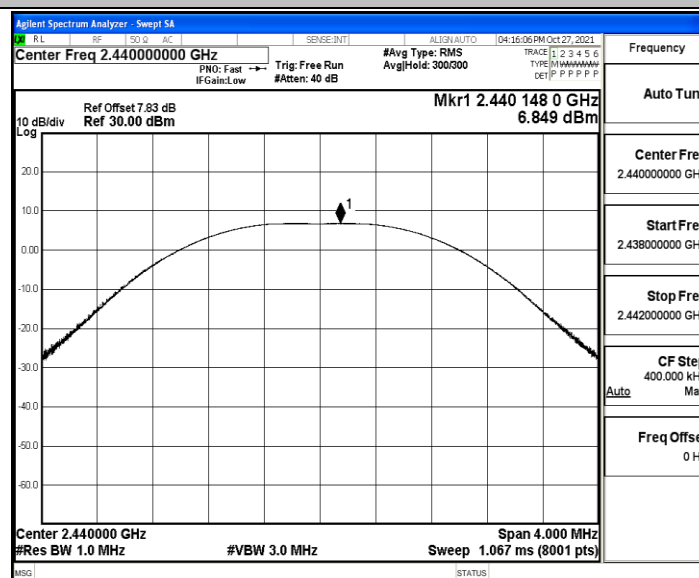


Test Graphs

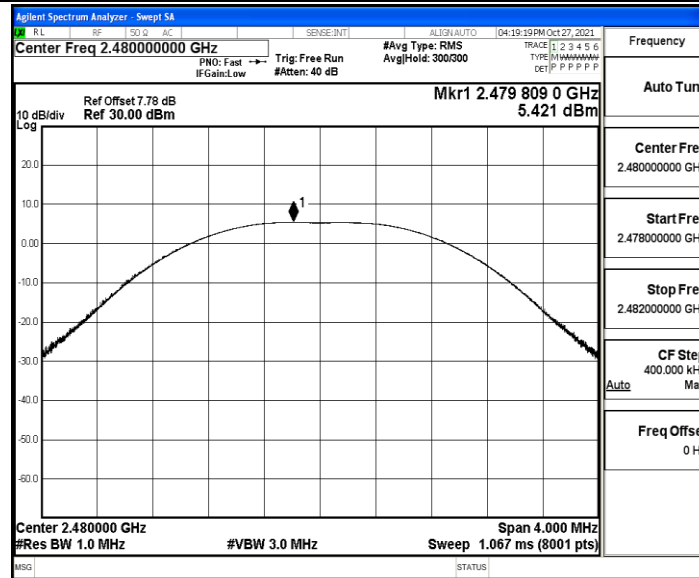
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





B.3 Maximum power spectral density

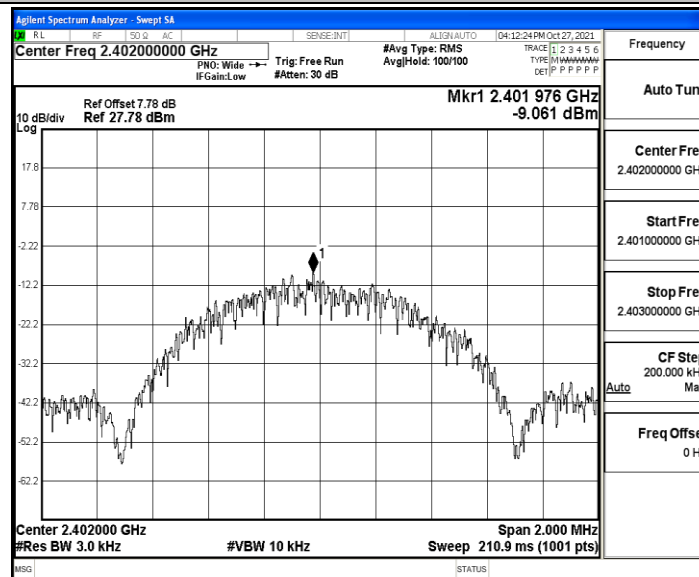
Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-9.06	≤ 8	PASS
		2440	-7.92	≤ 8	PASS
		2480	-9.3	≤ 8	PASS

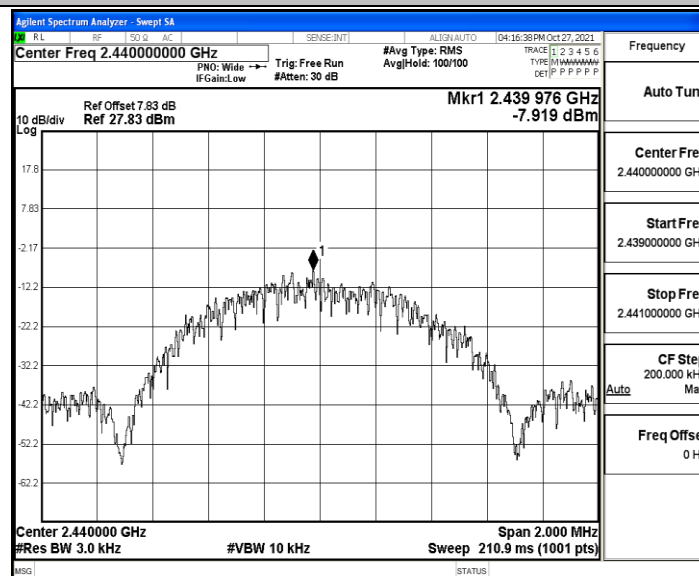


Test Graphs

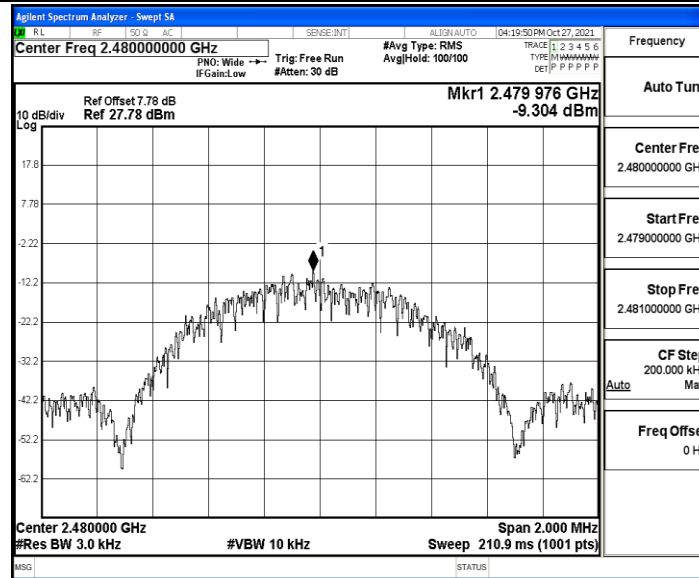
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





B.4 Band edge measurements

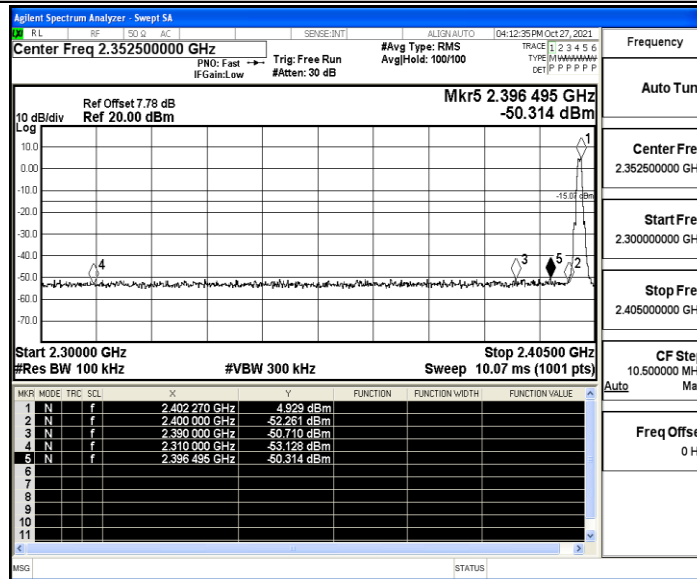
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	4.93	-50.31	≤ -15.07	PASS
		High	2480	4.83	-49.09	≤ -15.17	PASS

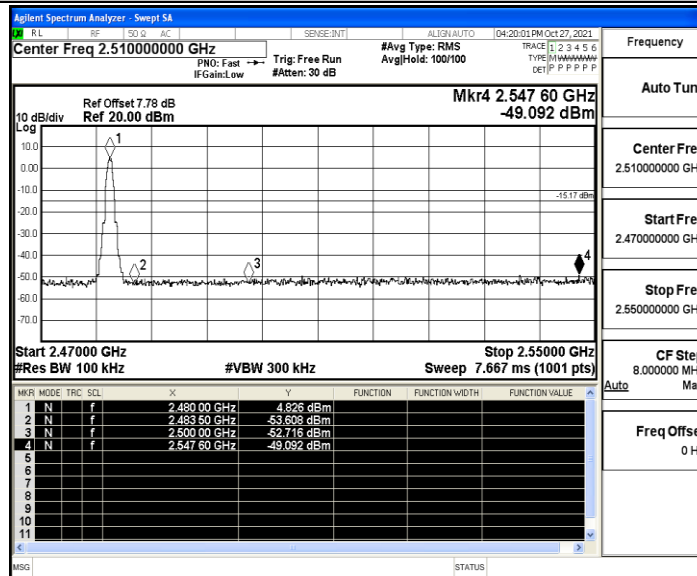


Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480





B.5 Conducted Spurious Emission

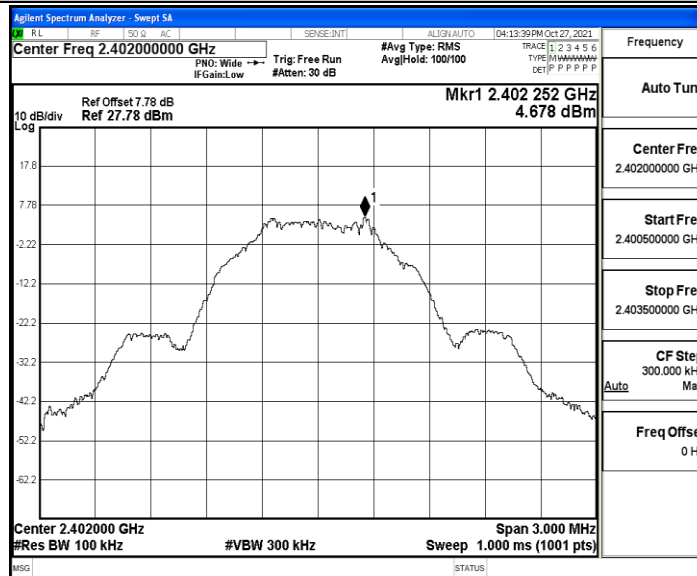
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	4.68	4.68	---	PASS
			30~1000	4.68	-61.27	≤ -15.32	PASS
			1000~26500	4.68	-47.52	≤ -15.32	PASS
		2440	Reference	6.26	6.26	---	PASS
			30~1000	6.26	-61.6	≤ -13.74	PASS
			1000~26500	6.26	-47.33	≤ -13.74	PASS
		2480	Reference	4.68	4.68	---	PASS
			30~1000	4.68	-61.51	≤ -15.32	PASS
			1000~26500	4.68	-46.96	≤ -15.32	PASS

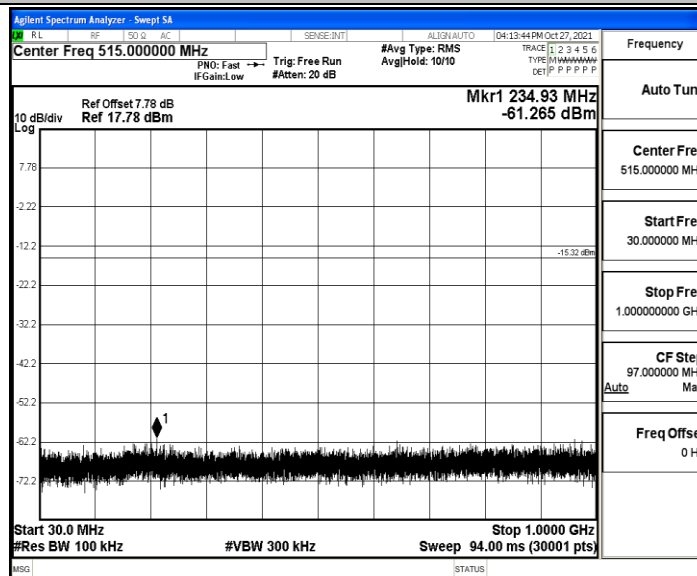


Test Graphs

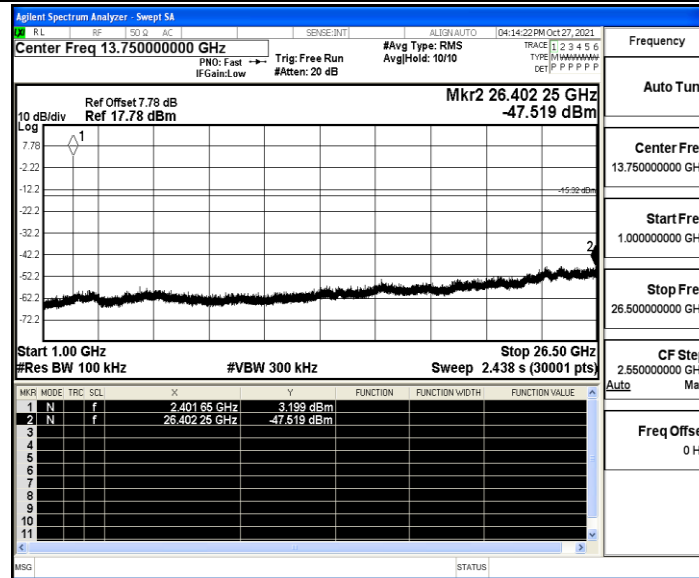
BLE_1M_Ant1_2402_0~Reference



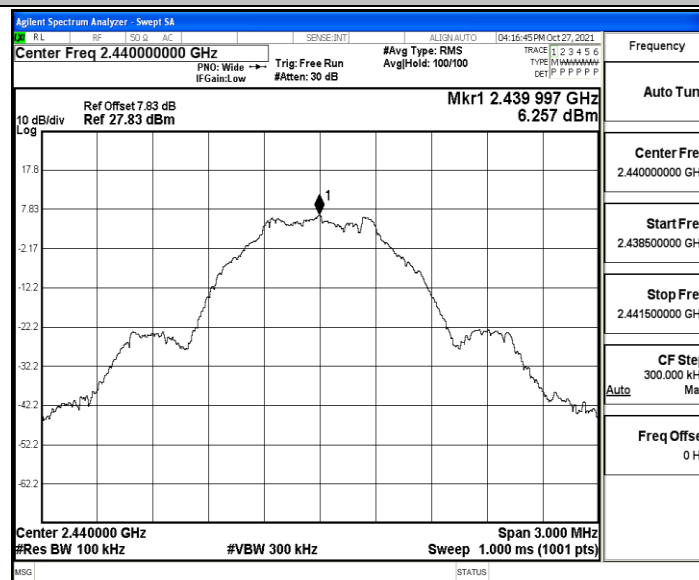
BLE_1M_Ant1_2402_30~1000



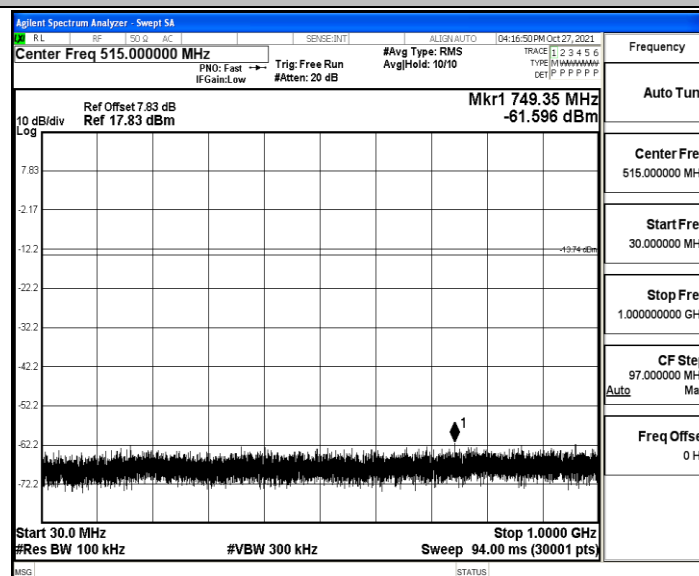
BLE_1M_Ant1_2402_1000~26500



BLE_1M_Ant1_2440_0~Reference

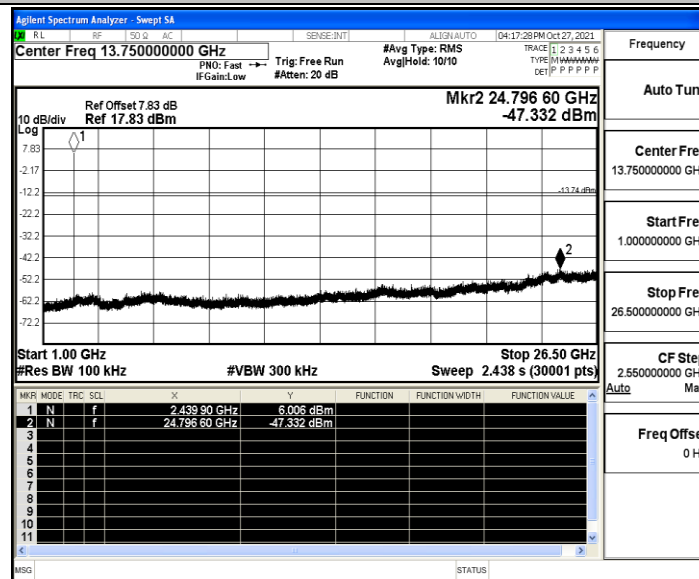


BLE_1M_Ant1_2440_30~1000

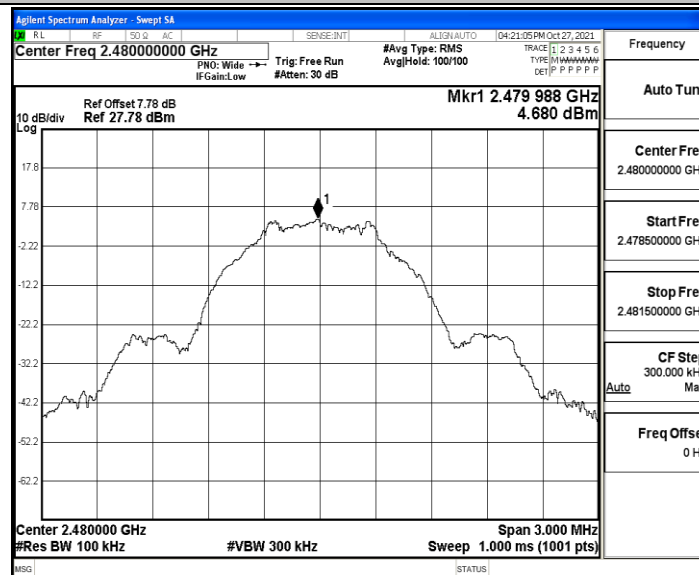




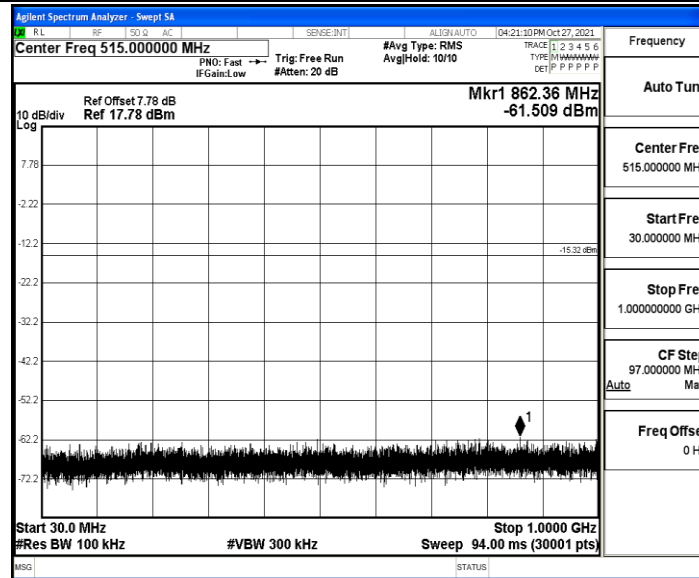
BLE_1M_Ant1_2440_1000~26500



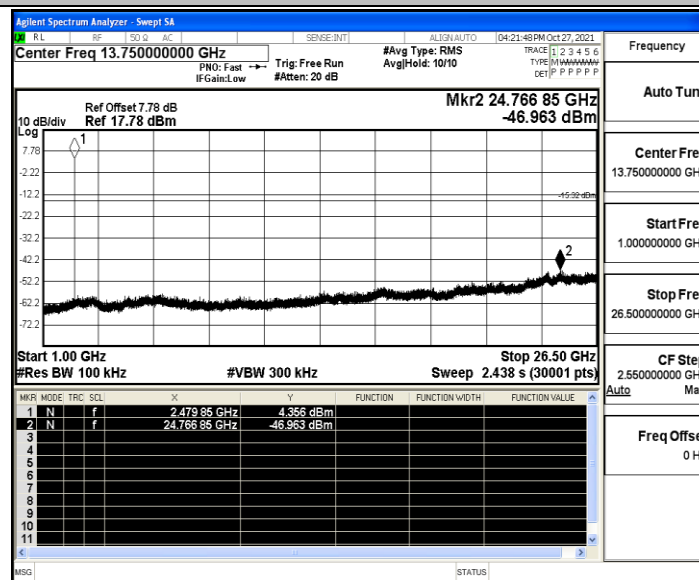
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000-26500





B.6 Duty Cycle

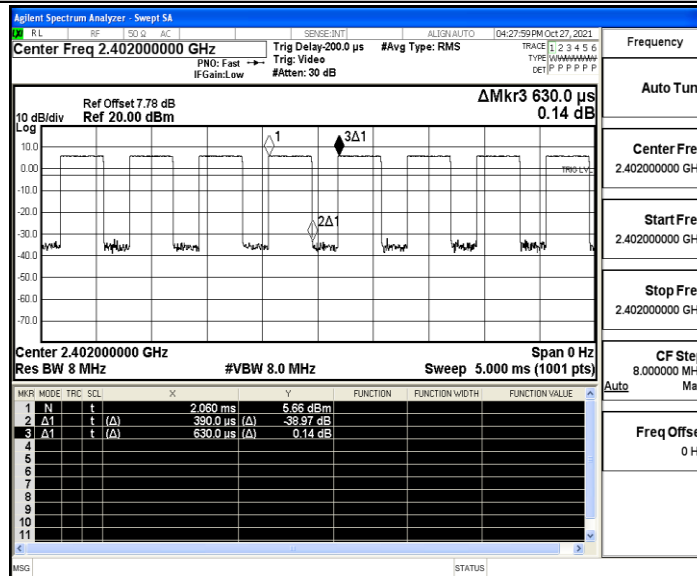
Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.39	0.63	0.6190	61.90	2.08	---	PASS
		2440	0.39	0.63	0.6190	61.90	2.08	---	PASS
		2480	0.39	0.63	0.6190	61.90	2.08	---	PASS

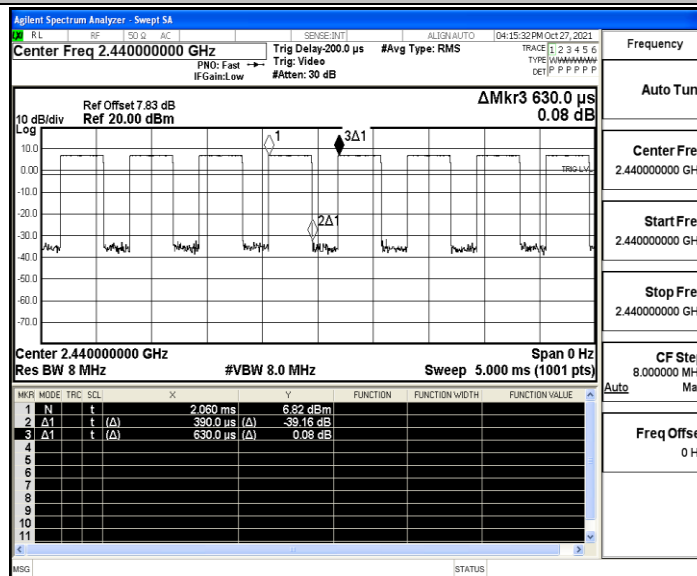


Test Graphs

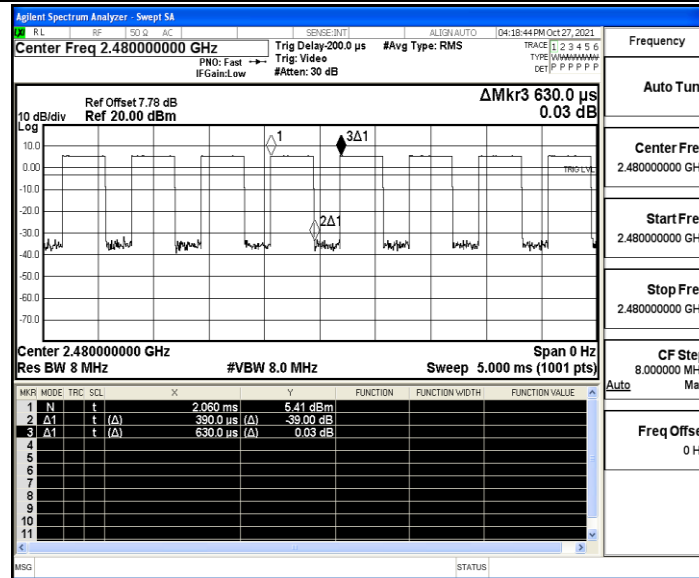
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





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	-48.51	≤-41.20	46.69	≤54	PASS
				AV	2385.575	-47.57	≤-41.20	47.63	≤54	PASS
				AV	2390.000	-48.08	≤-41.20	47.12	≤54	PASS
				Peak	2310.000	-40.55	≤-21.20	54.65	≤74	PASS
				Peak	2331.710	-38.6	≤-21.20	56.60	≤74	PASS
				Peak	2390.000	-41.98	≤-21.20	53.22	≤74	PASS
		High	2480	AV	2483.500	-45.92	≤-41.20	49.28	≤54	PASS
				AV	2483.520	-45.92	≤-41.20	49.28	≤54	PASS
				AV	2500.000	-47.18	≤-41.20	48.02	≤54	PASS
				Peak	2483.500	-39.03	≤-21.20	56.17	≤74	PASS
				Peak	2499.840	-38.29	≤-21.20	56.91	≤74	PASS
				Peak	2500.000	-40.91	≤-21.20	54.29	≤74	PASS

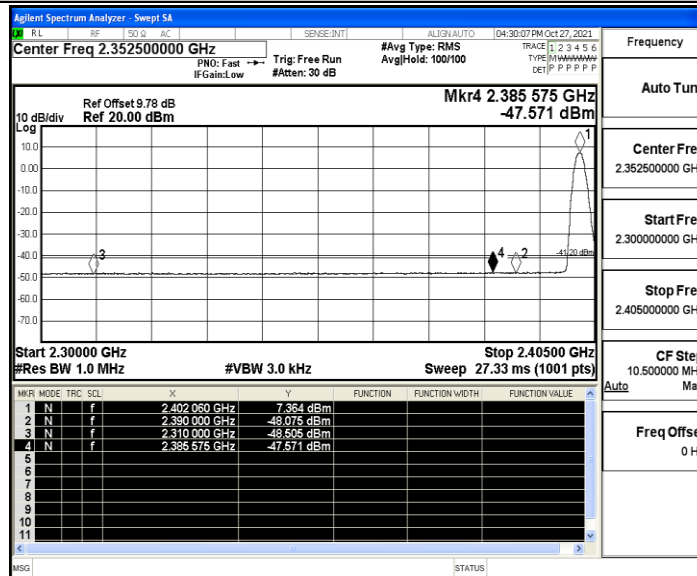
Note:

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.

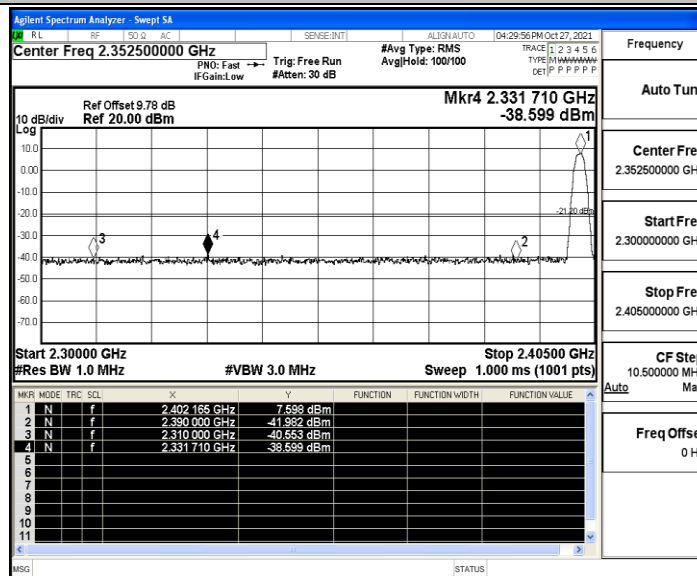


Test Graphs

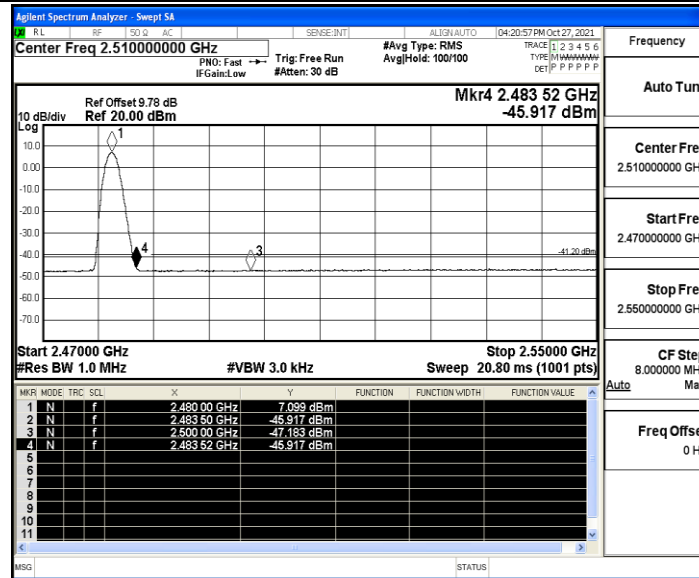
BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV



BLE_1M_Ant1_High_2480_Peak

