



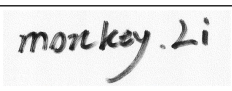
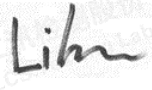
Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: Wireless Bluetooth Earbuds

Test Model: S10

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	 Monkey Li
Supervised by:	 Li Huan





B.1 DTS Bandwidth

Test Result

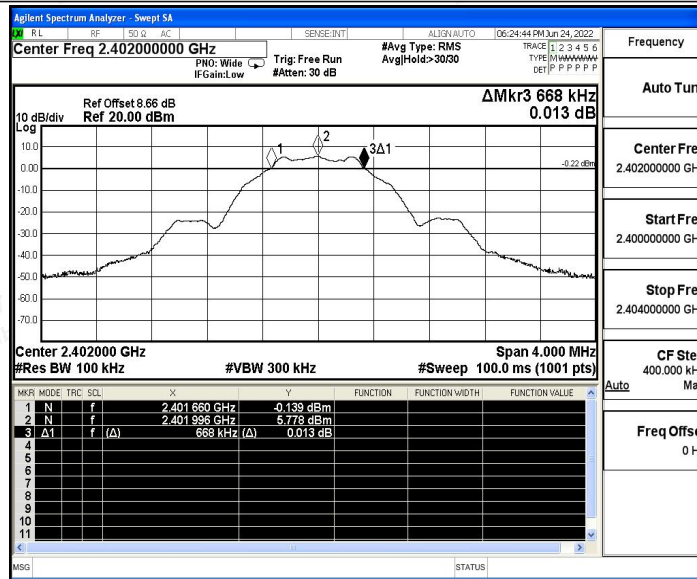
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.668	2401.660	2402.328	0.5	PASS
		2440	0.668	2439.660	2440.328	0.5	PASS
		2480	0.668	2479.660	2480.328	0.5	PASS



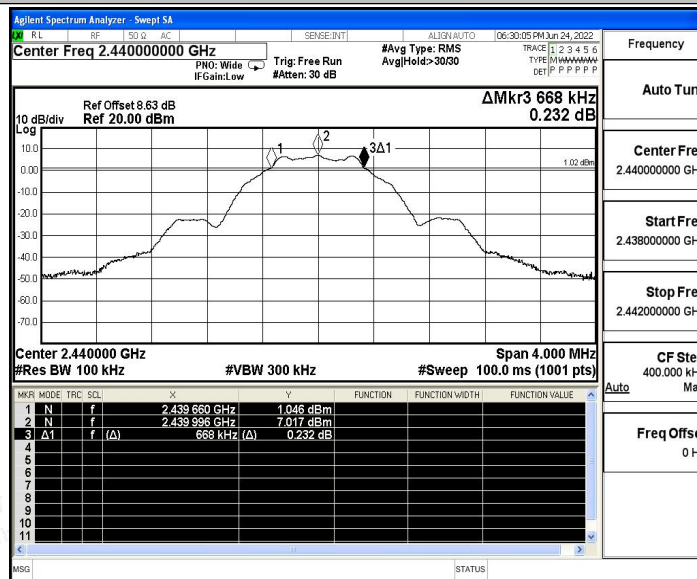


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

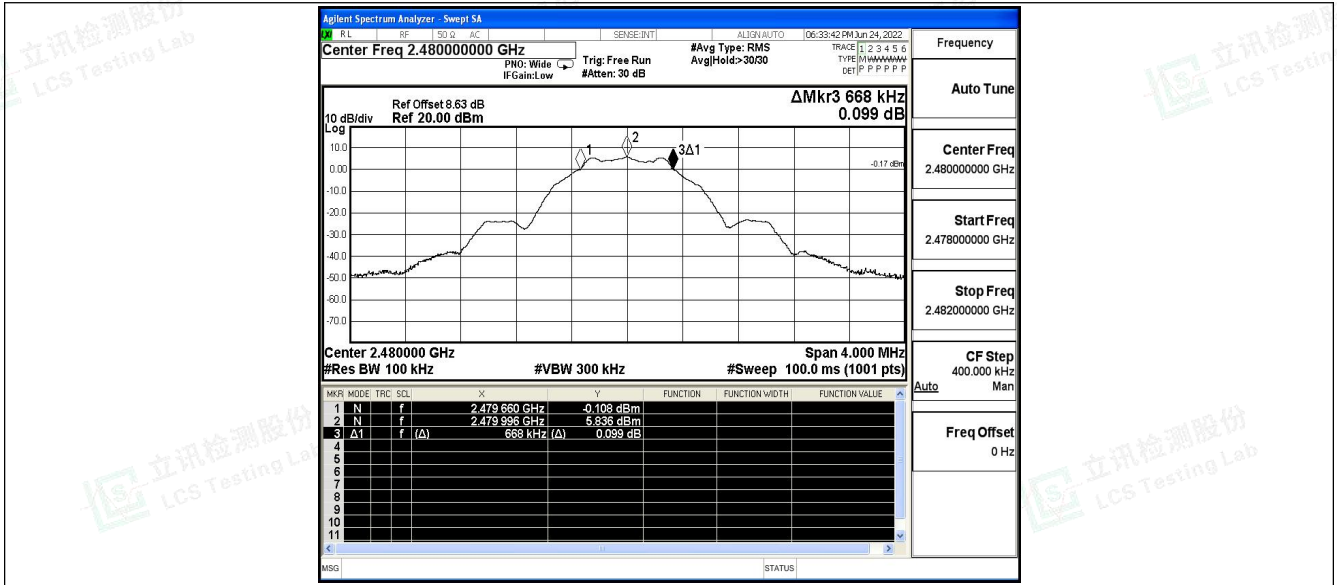


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B.2 Maximum peak conducted output power

Test Result

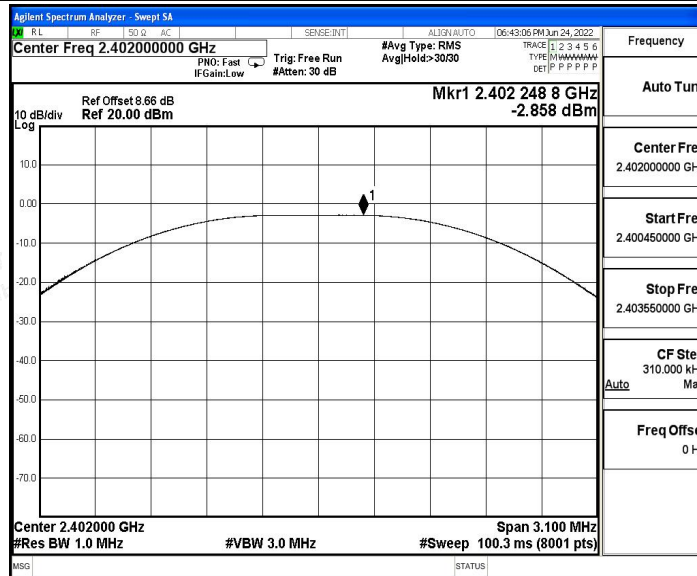
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-2.86	≤30	PASS
		2440	-3.27	≤30	PASS
		2480	-3.4	≤30	PASS



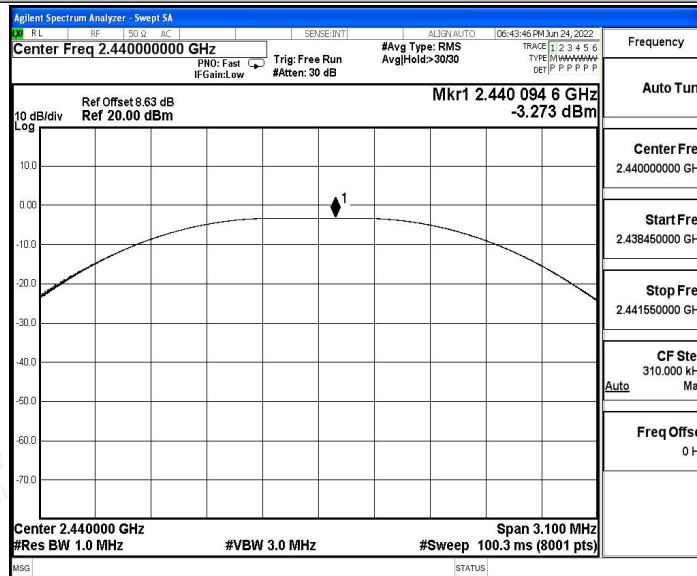


Test Graphs

BLE_1M_Ant1_2402

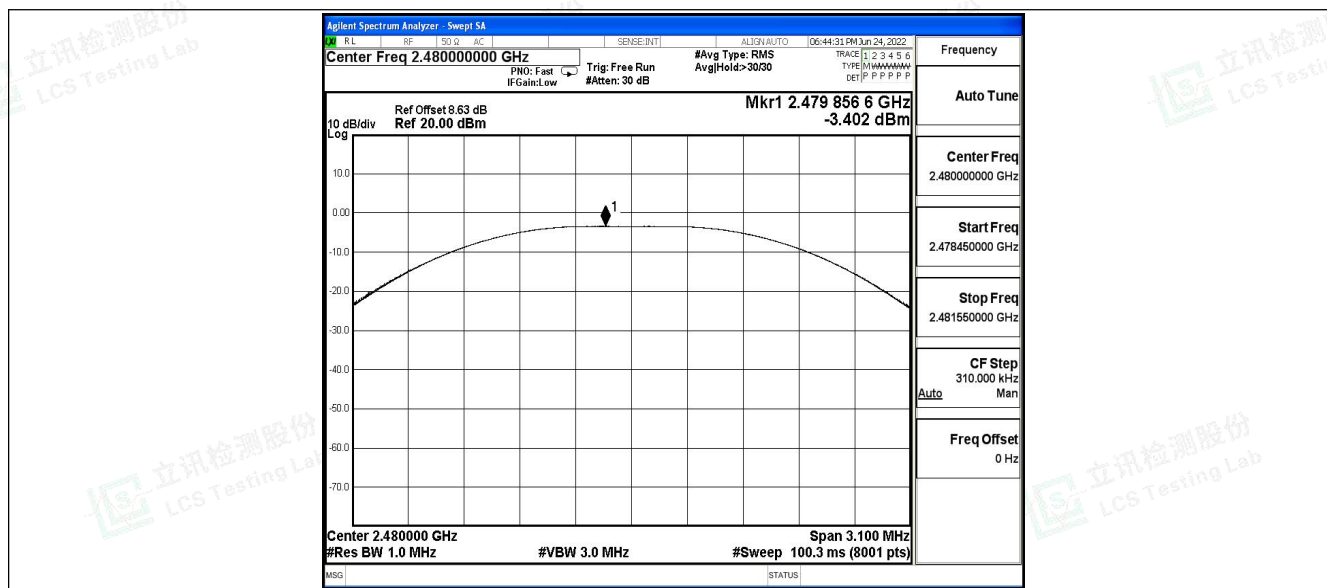


BLE_1M_Ant1_2440



BLE_1M_Ant1_2480







B.3 Maximum power spectral density

Test Result

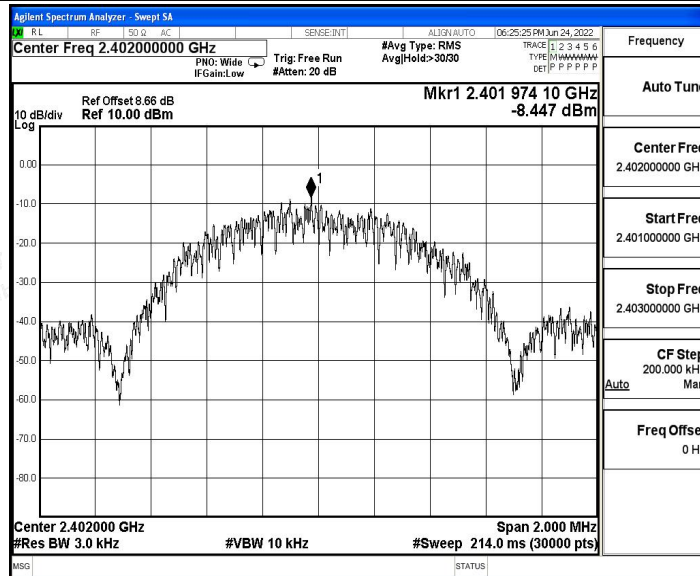
TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-8.45	≤8.00	PASS
		2440	-7.1	≤8.00	PASS
		2480	-8.46	≤8.00	PASS



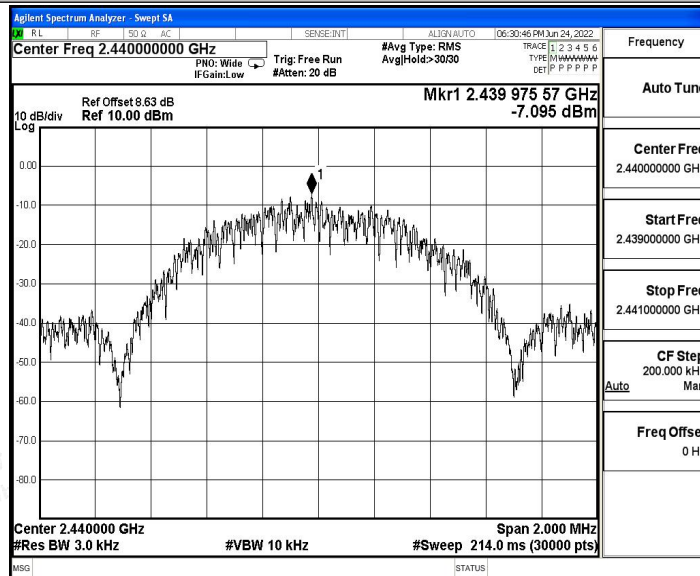


Test Graphs

BLE_1M_Ant1_2402

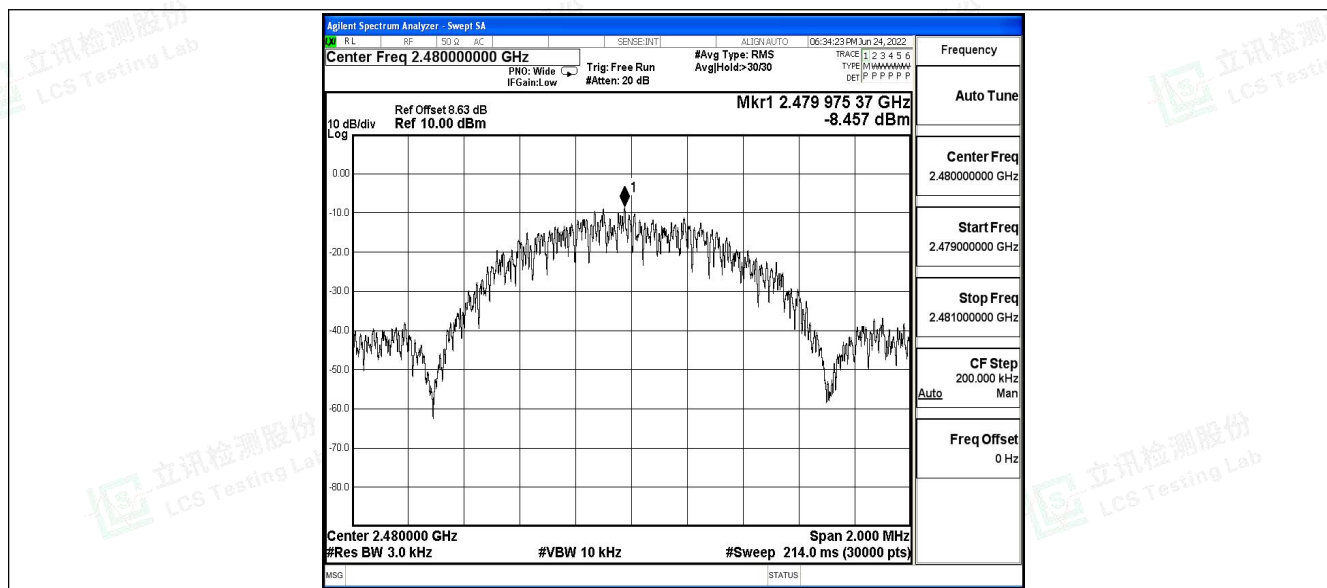


BLE_1M_Ant1_2440



BLE_1M_Ant1_2480







B.4 Band edge measurements

Test Result

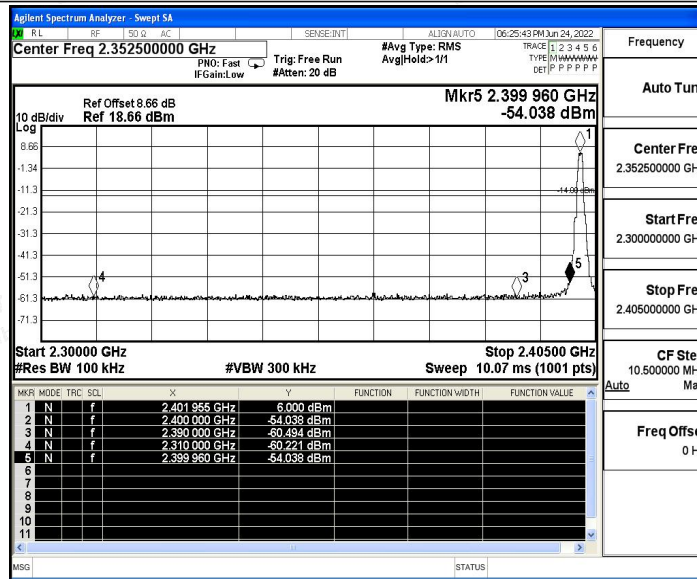
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	6.00	-54.04	≤-14	PASS
		High	2480	5.89	-57.03	≤-14.11	PASS



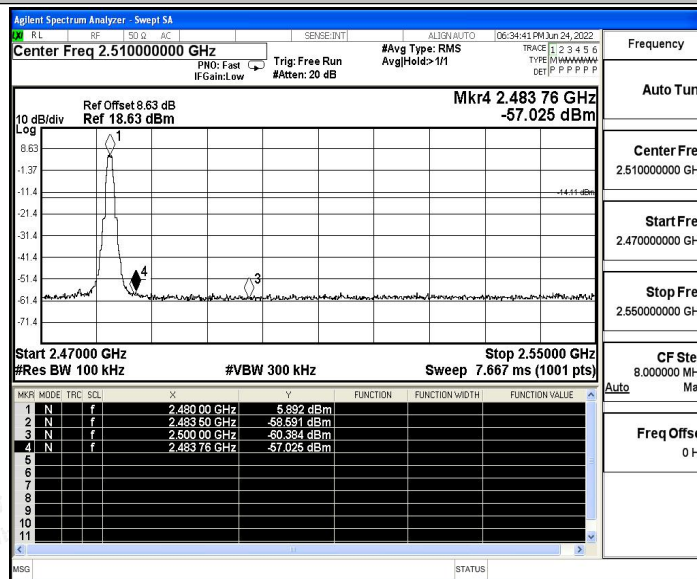


Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



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B.5 Conducted Spurious Emission

Test Result

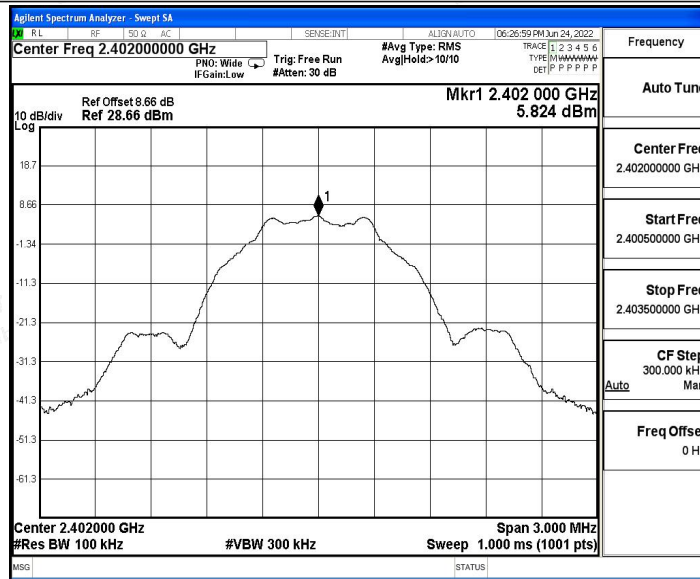
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	5.82	5.82	---	PASS
			30~1000	5.82	-60.5	≤-14.18	PASS
			1000~26500	5.82	-46.65	≤-14.18	PASS
		2440	Reference	7.04	7.04	---	PASS
			30~1000	7.04	-48.93	≤-12.96	PASS
			1000~26500	7.04	-45.96	≤-12.96	PASS
		2480	Reference	5.84	5.84	---	PASS
			30~1000	5.84	-60.53	≤-14.16	PASS
			1000~26500	5.84	-46.61	≤-14.16	PASS



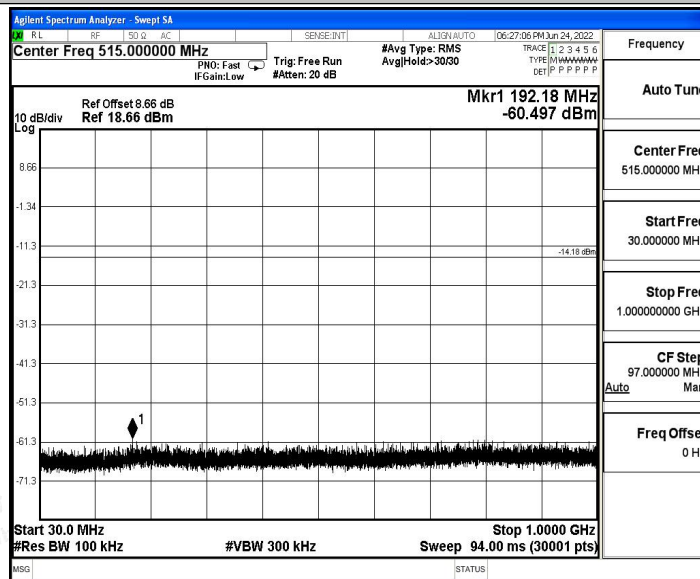


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

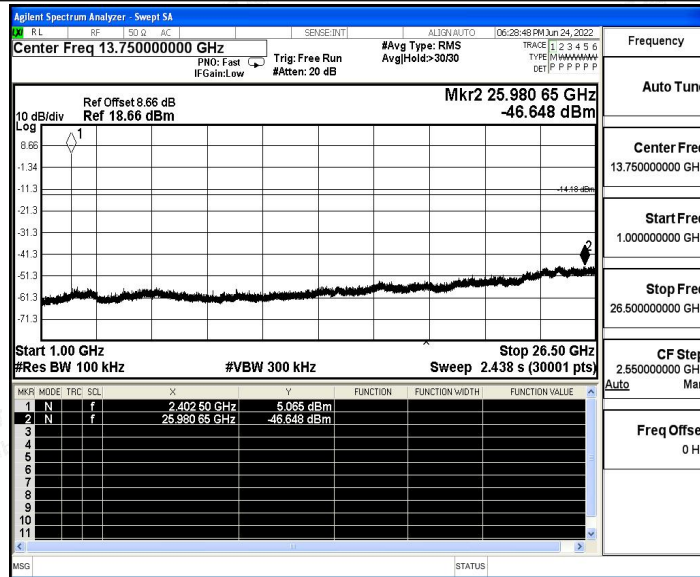


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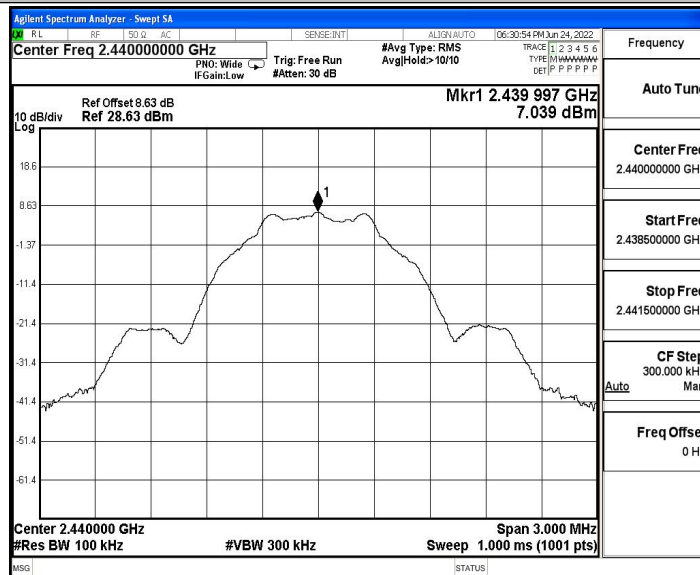
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

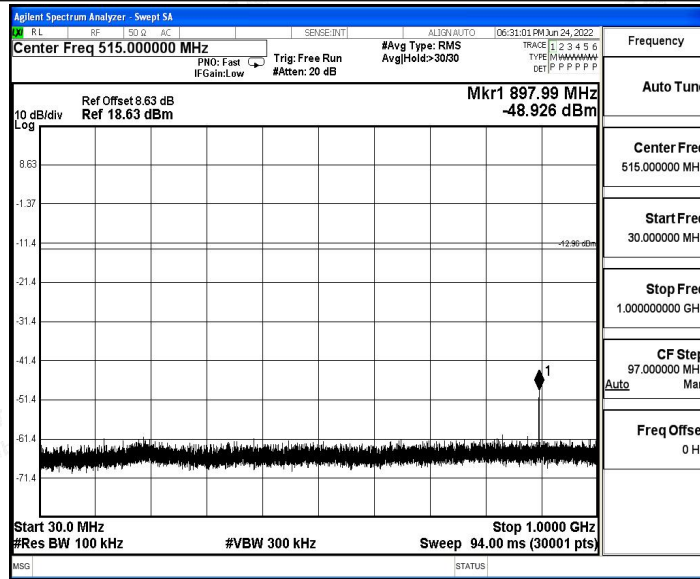


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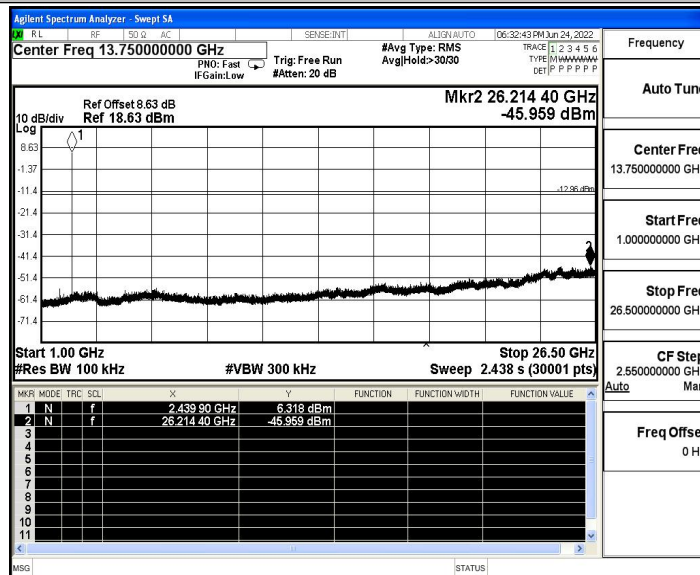
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

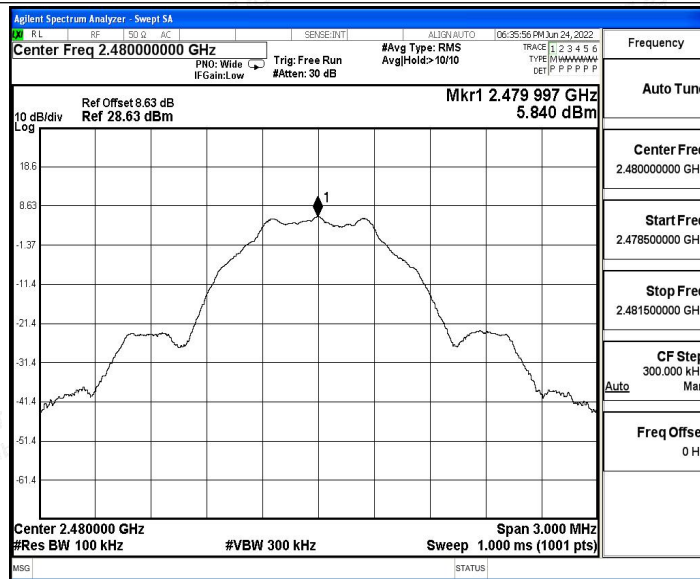


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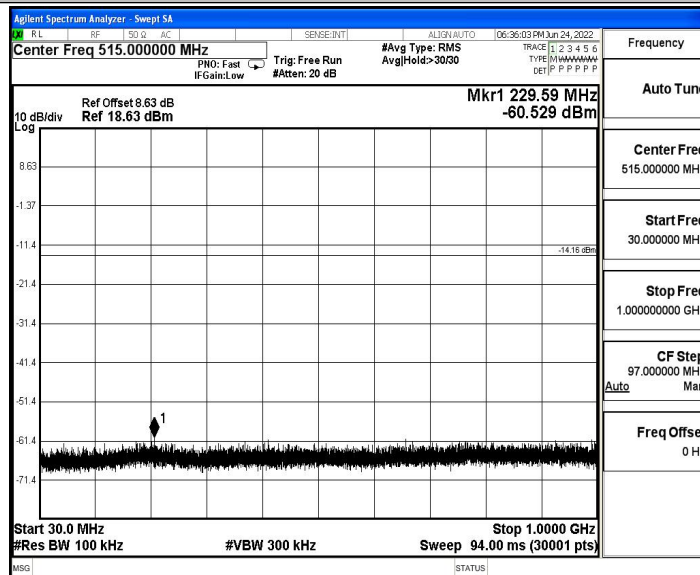
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BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

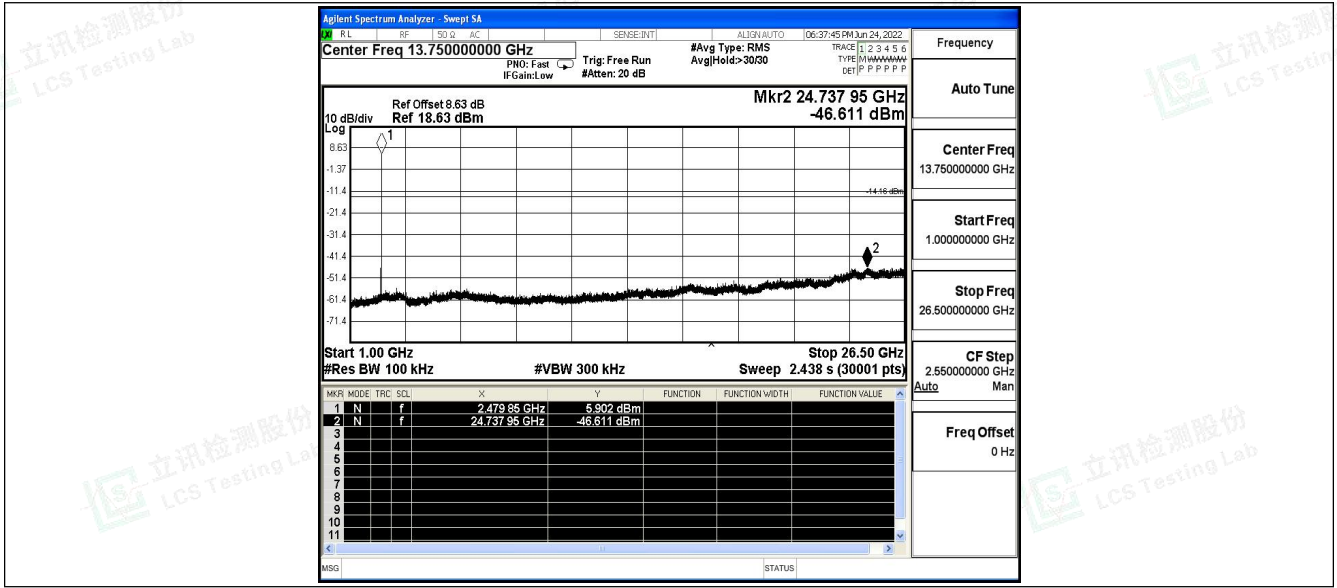


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B.6 Duty Cycle

Test Result

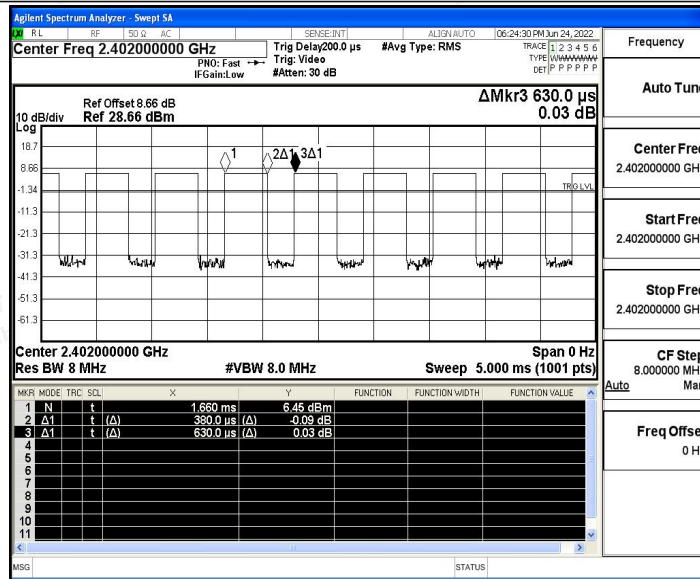
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	1/T	Limit	Verdict
BLE_1M	Ant1	2402	0.38	0.63	0.6032	60.32	2.20	2.63	---	---
		2440	0.38	0.63	0.6032	60.32	2.20	2.63	---	---
		2480	0.38	0.63	0.6032	60.32	2.20	2.63	---	---



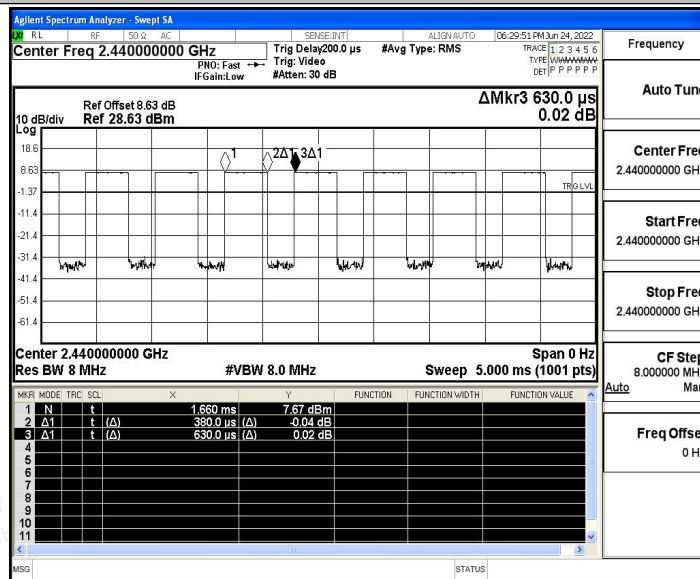


Test Graphs

BLE_1M_Ant1_2402

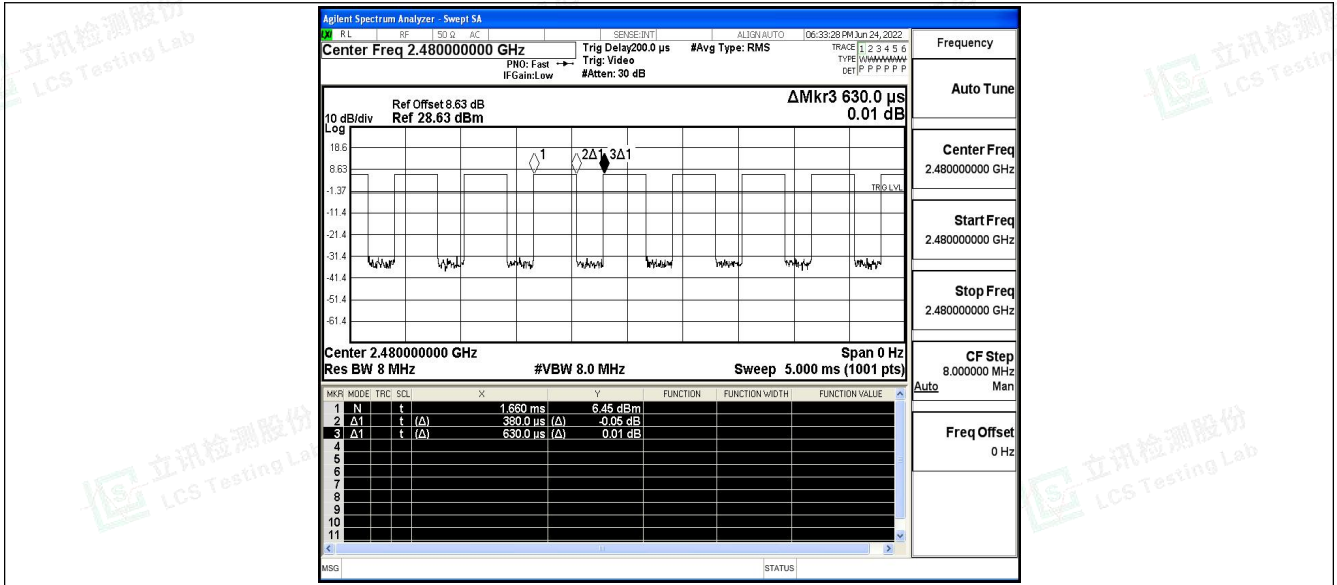


BLE_1M_Ant1_2440



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	-57.18	≤-41.20	38.02	≤54	PASS
				AV	2385.575	-56.55	≤-41.20	38.65	≤54	PASS
				AV	2390.000	-56.77	≤-41.20	38.43	≤54	PASS
				Peak	2310.000	-47.64	≤-21.20	47.56	≤74	PASS
				Peak	2384.525	-45.76	≤-21.20	49.44	≤74	PASS
				Peak	2390.000	-47.93	≤-21.20	47.27	≤74	PASS
		High	2480	AV	2483.500	-48.61	≤-41.20	46.59	≤54	PASS
				AV	2483.520	-48.61	≤-41.20	46.59	≤54	PASS
				AV	2500.000	-56.13	≤-41.20	39.07	≤54	PASS
				Peak	2483.500	-44.93	≤-21.20	50.27	≤74	PASS
				Peak	2484.720	-44.41	≤-21.20	50.79	≤74	PASS
				Peak	2500.000	-47.85	≤-21.20	47.35	≤74	PASS

Note:

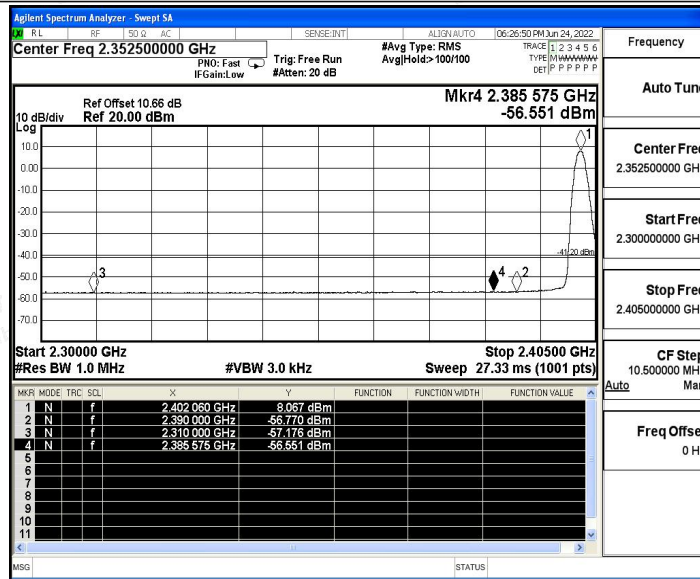
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



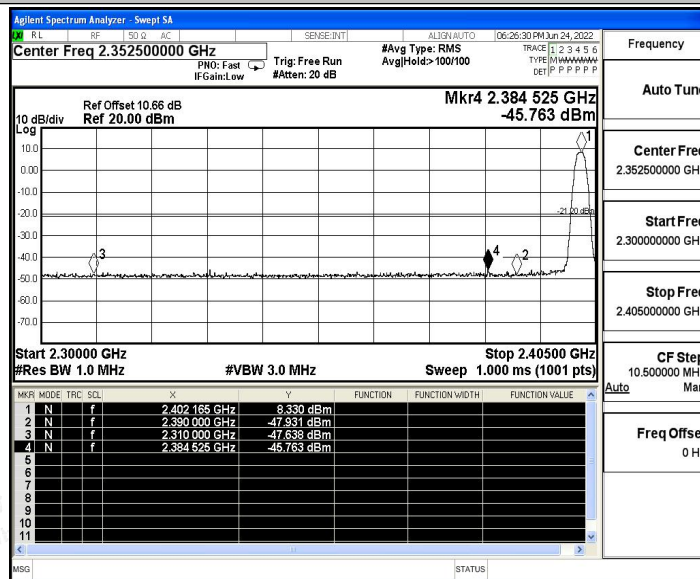


Test Graphs

BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV

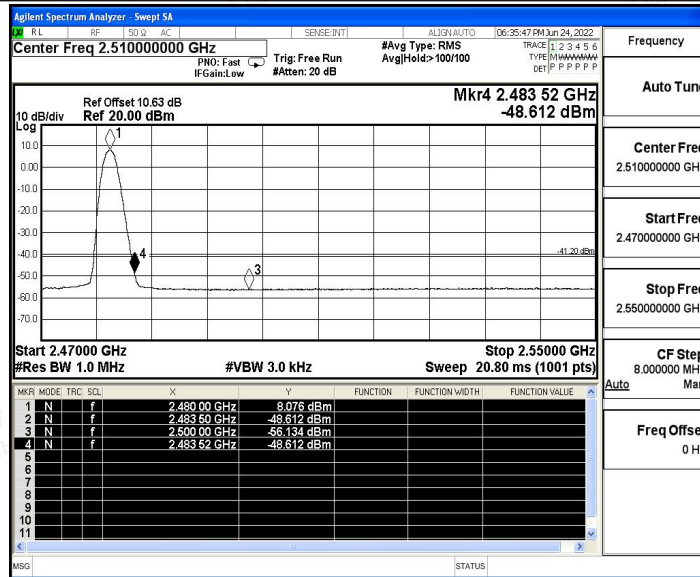


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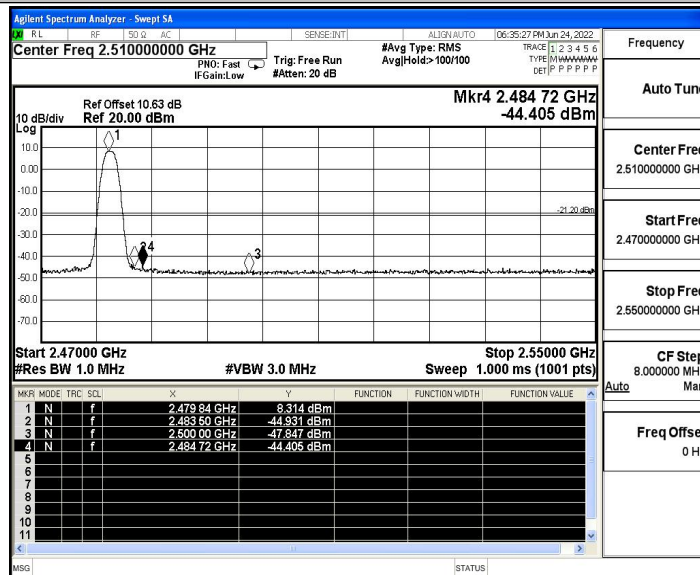
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BLE_1M_Ant1_High_2480_Peak



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