



Appendix B

RF Test Data for BLE (Conducted Measurement)

Product Name: Wireless Bone Conduction Headphones

Test Model: MOJO2

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
Supervised by:	Li huan



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A.1 DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.716	2401.636	2402.352	0.5	PASS
		2440	0.716	2439.636	2440.352	0.5	PASS
		2480	0.716	2479.636	2480.352	0.5	PASS



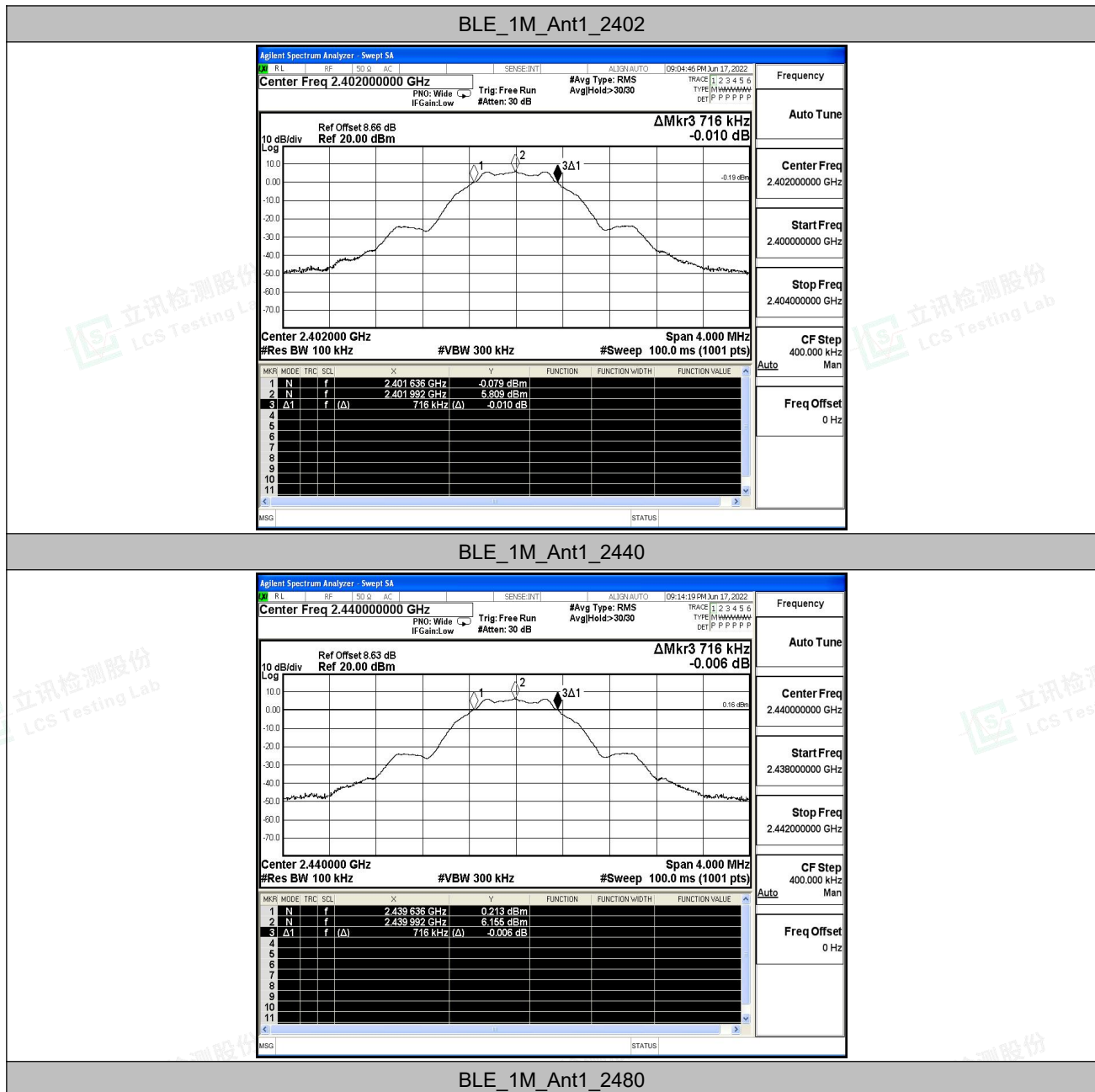
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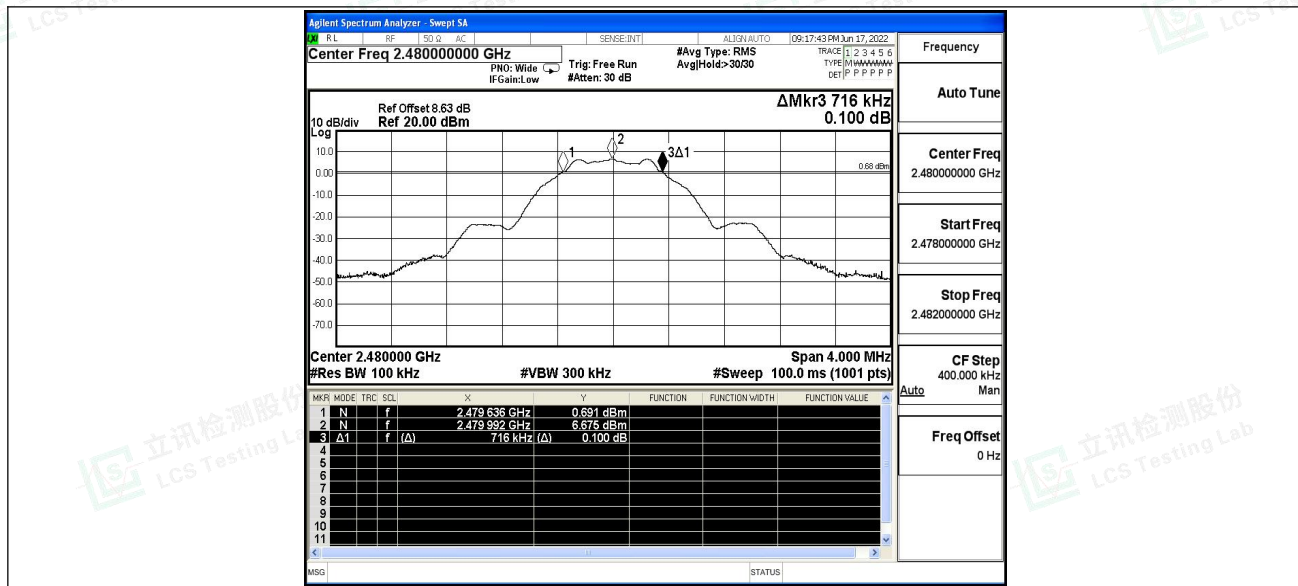
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Test Graphs





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A.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	6.62	≤30	PASS
		2440	6.94	≤30	PASS
		2480	7.46	≤30	PASS



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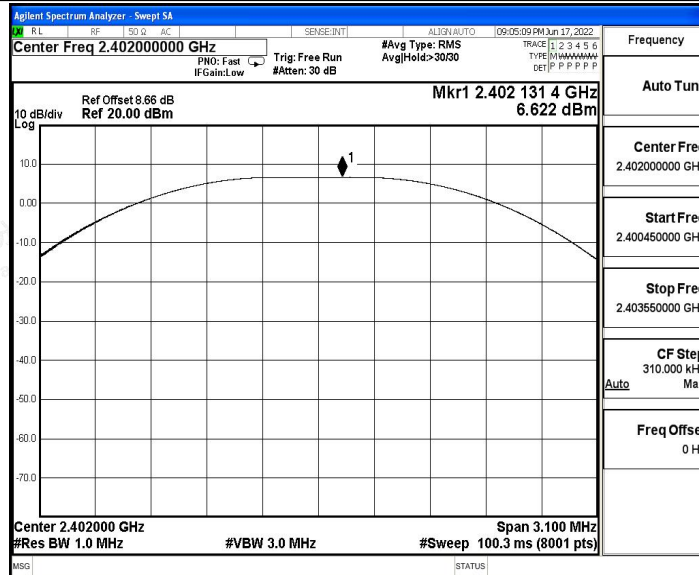
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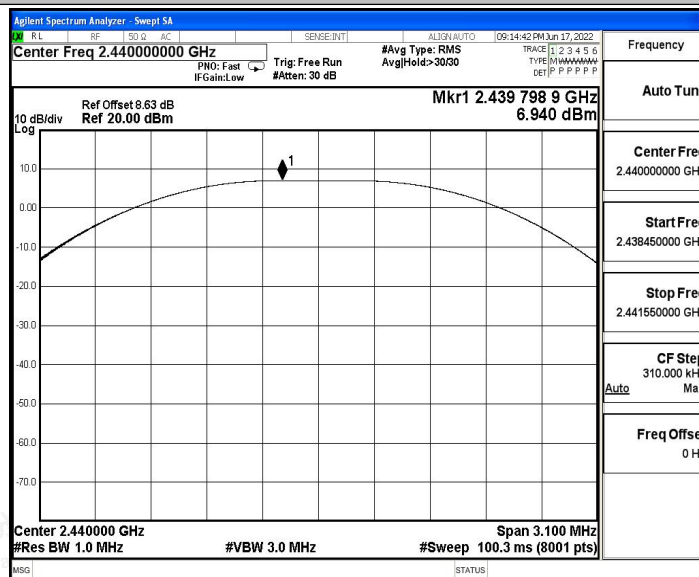


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

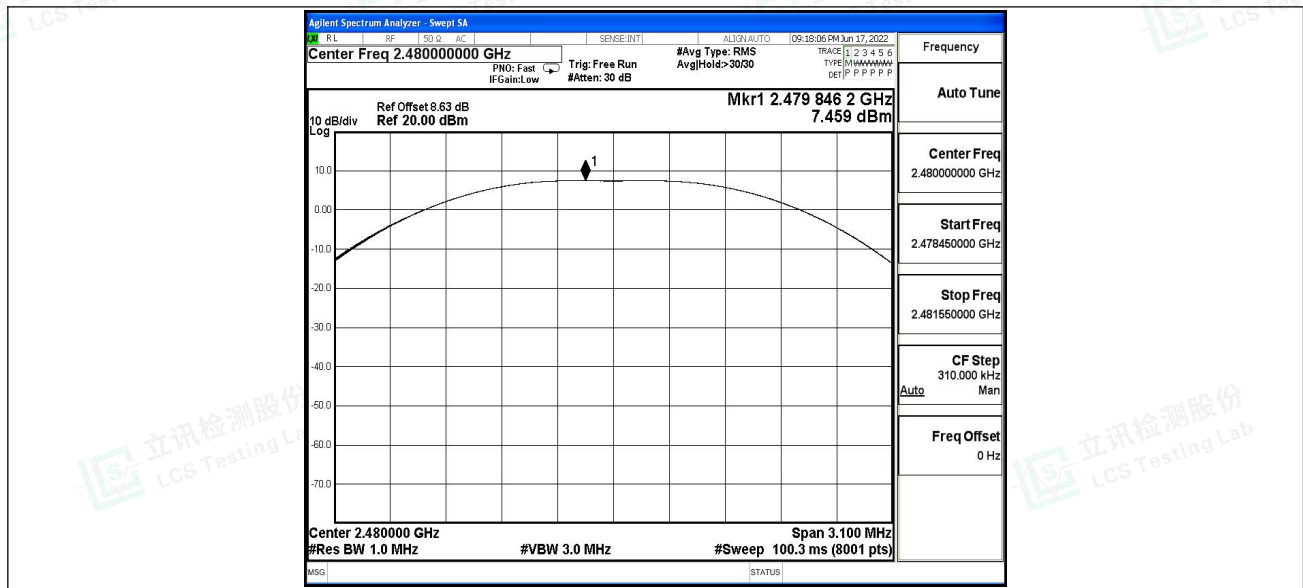


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A.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-8.33	≤8.00	PASS
		2440	-8.03	≤8.00	PASS
		2480	-7.54	≤8.00	PASS



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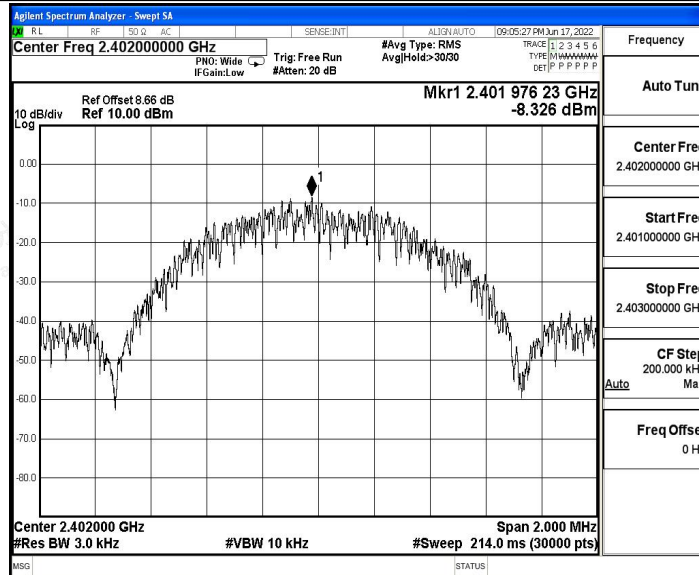
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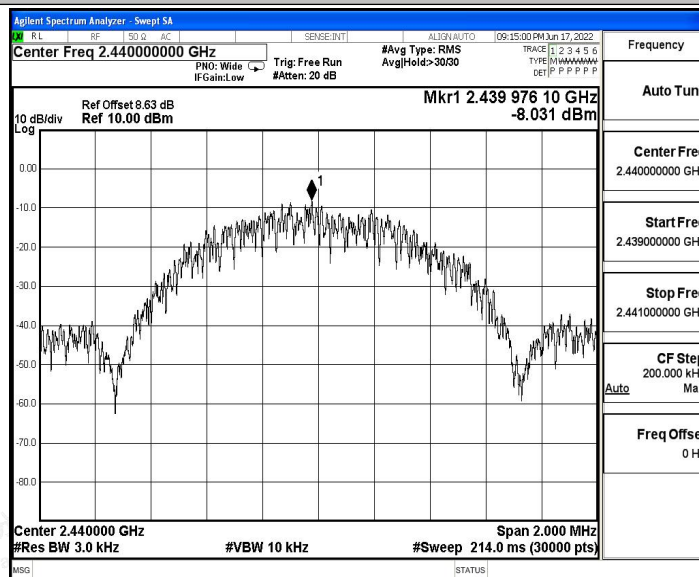


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

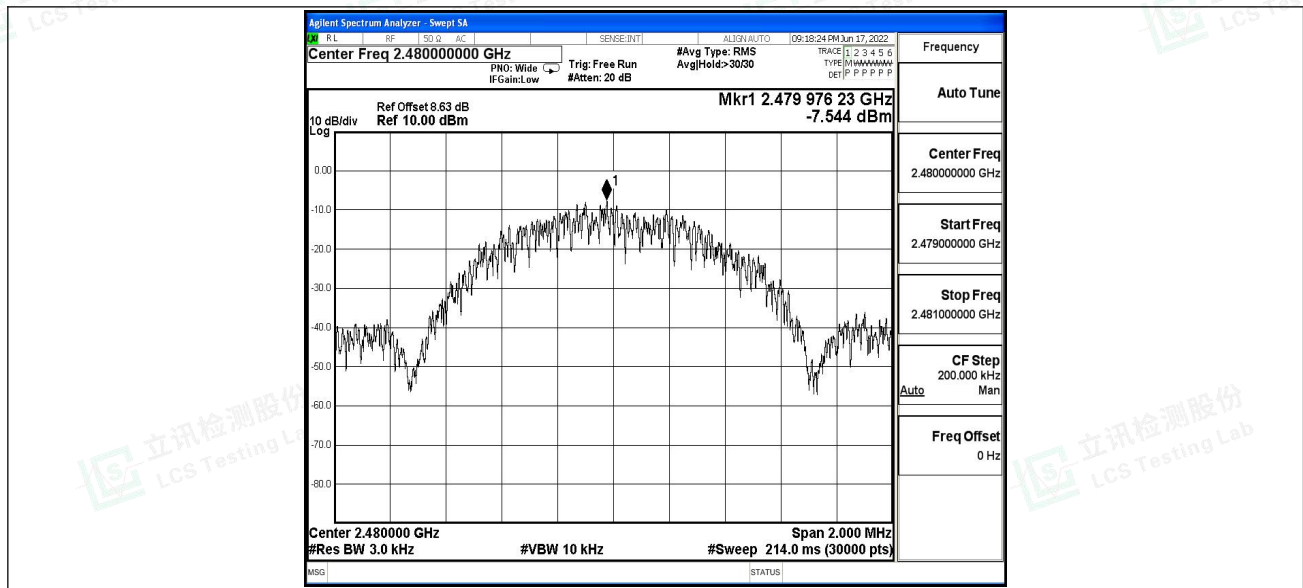


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A.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	6.04	-52.74	≤-13.96	PASS
		High	2480	6.85	-57.36	≤-13.15	PASS



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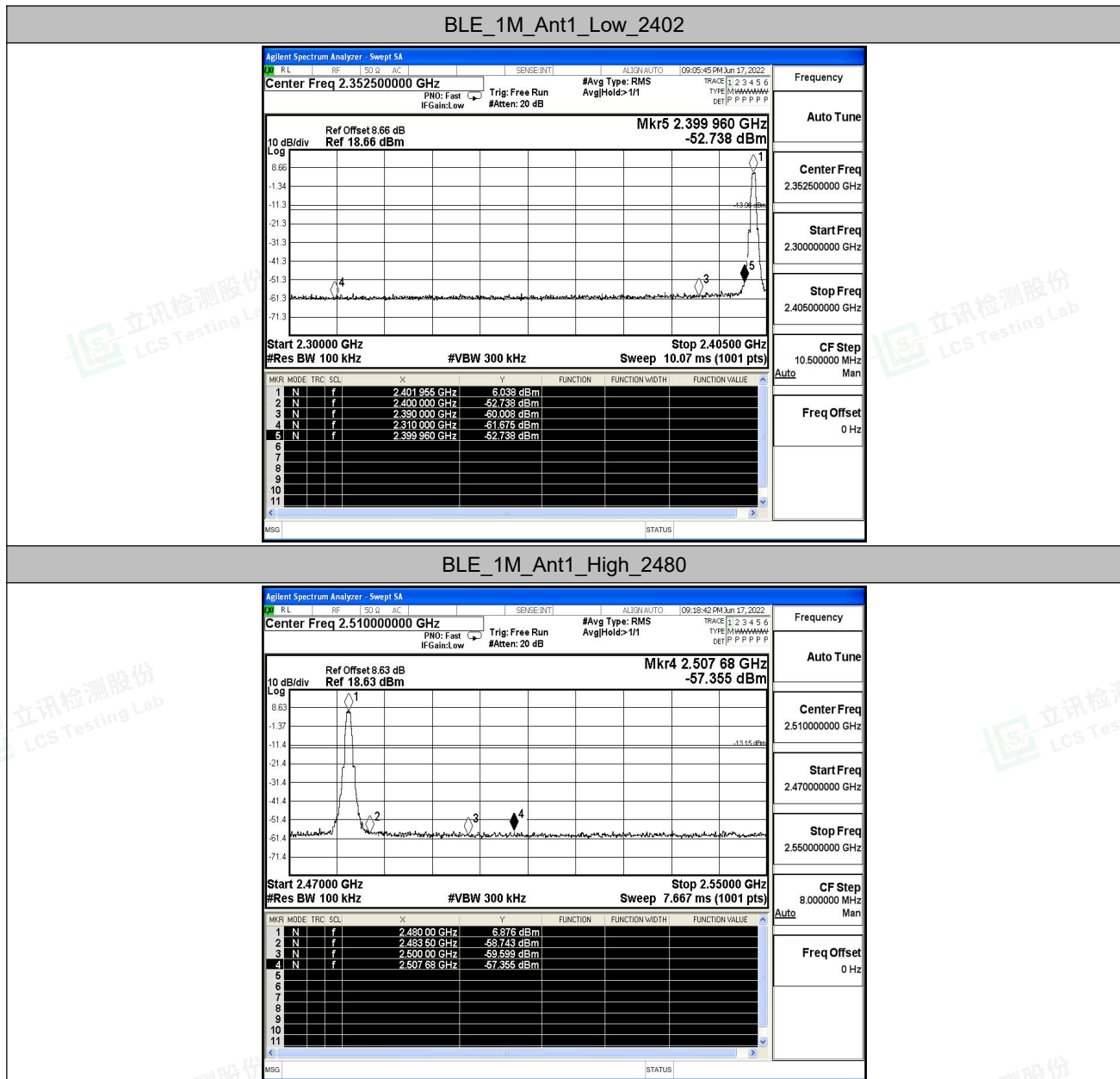
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Test Graphs



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A.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	5.79	5.79	---	PASS
			30~1000	5.79	-59.16	≤-14.21	PASS
			1000~26500	5.79	-45.57	≤-14.21	PASS
		2440	Reference	6.16	6.16	---	PASS
			30~1000	6.16	-59.67	≤-13.84	PASS
			1000~26500	6.16	-45.2	≤-13.84	PASS
		2480	Reference	6.68	6.68	---	PASS
			30~1000	6.68	-58.81	≤-13.32	PASS
			1000~26500	6.68	-45.08	≤-13.32	PASS



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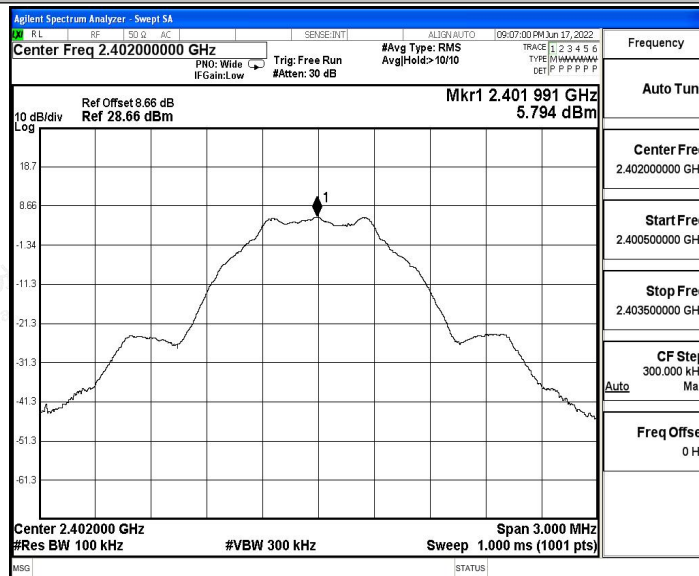
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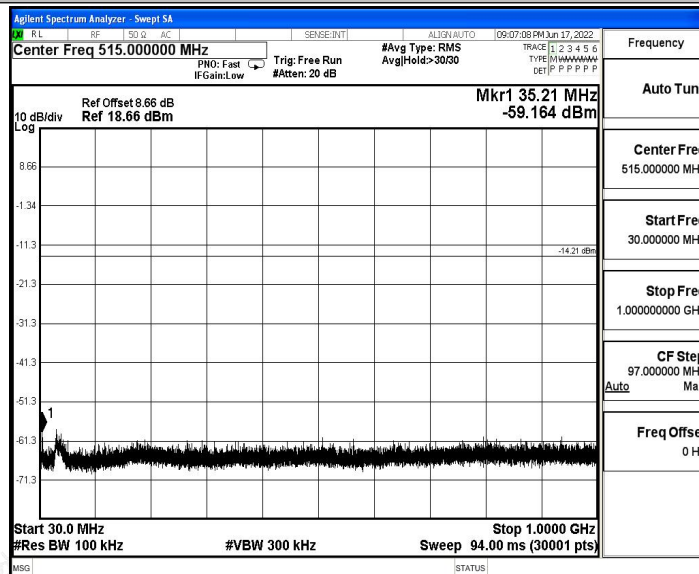


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

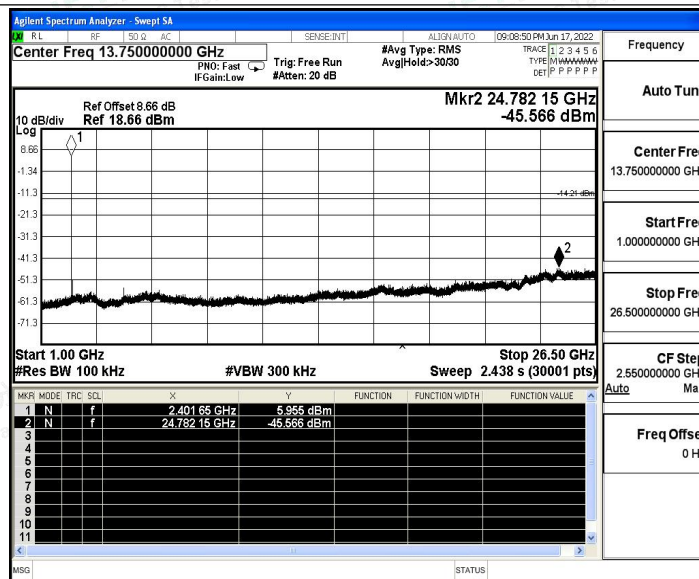


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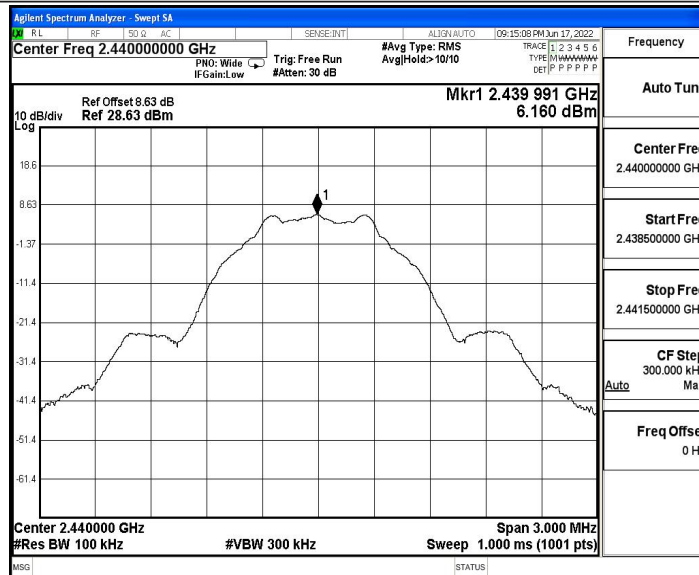
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

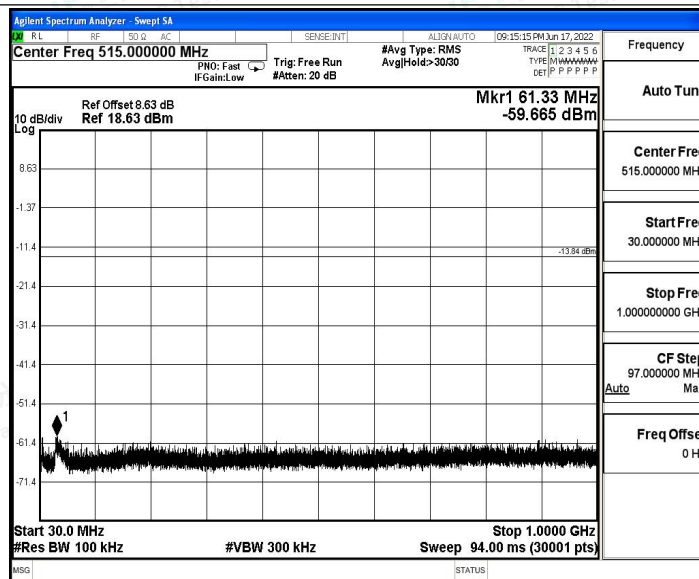


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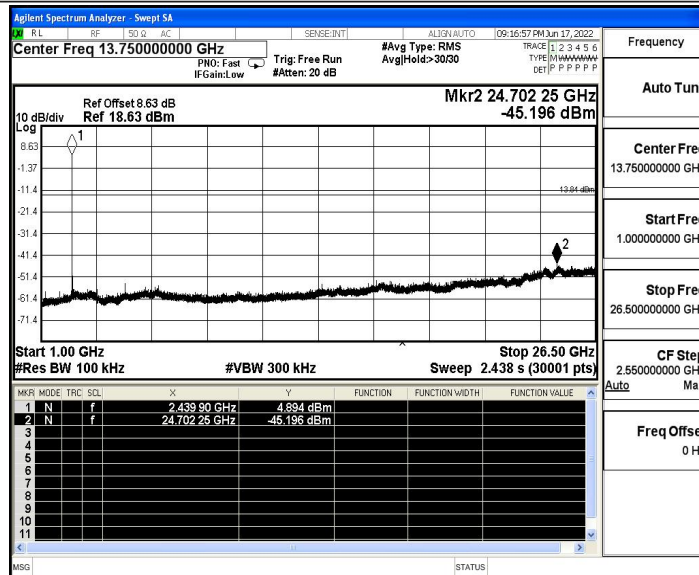
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

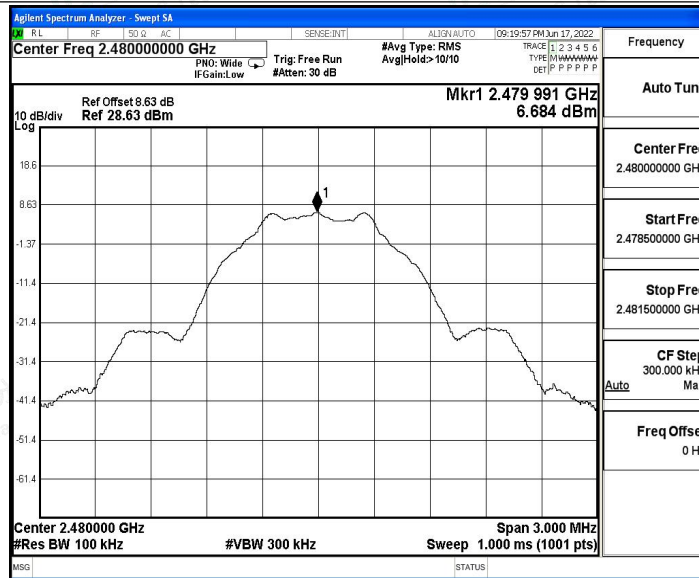


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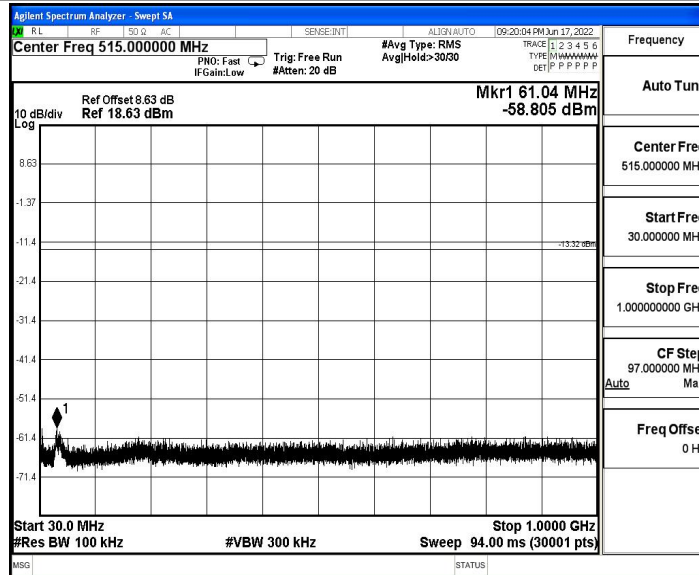
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BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

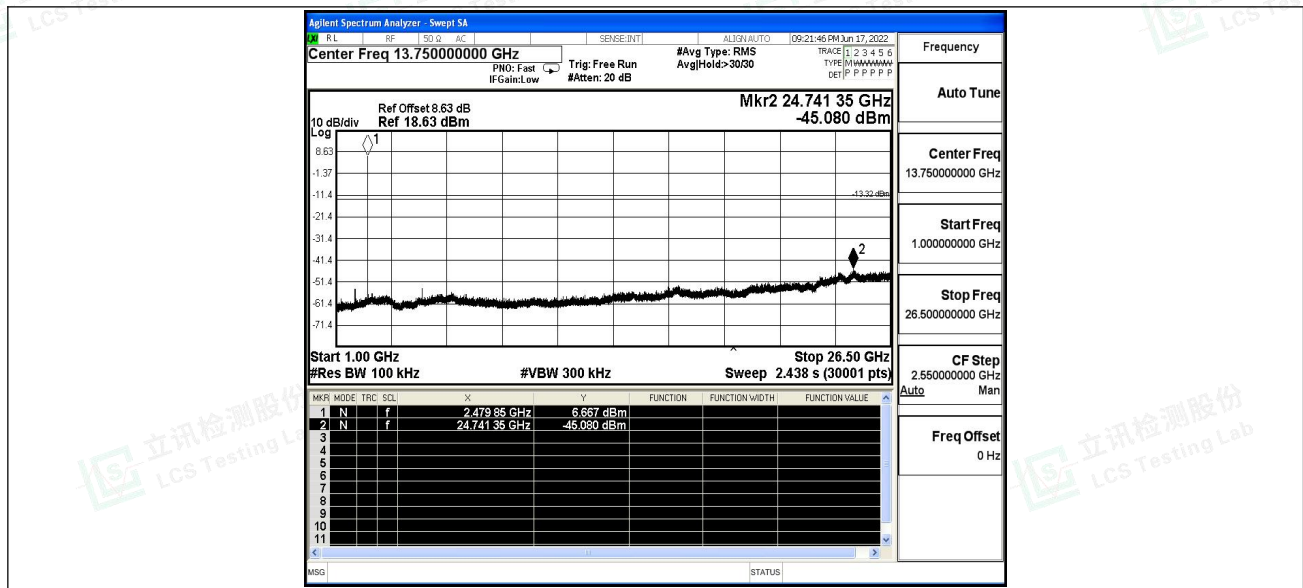


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A.6 Duty Cycle

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	---	---



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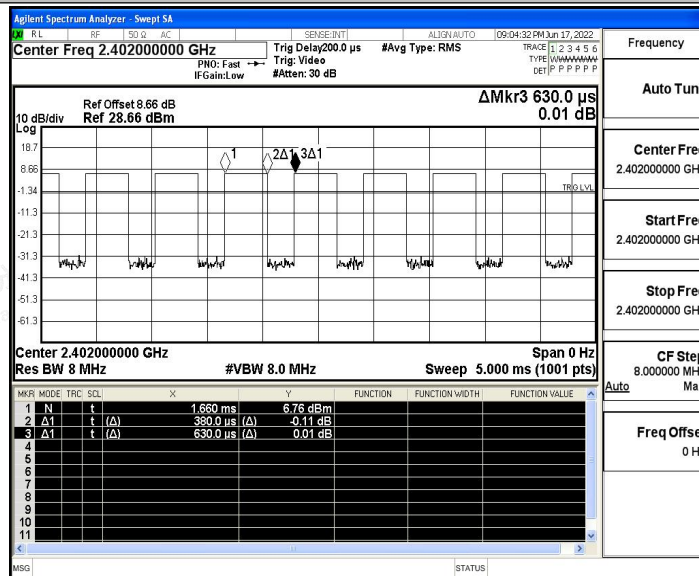
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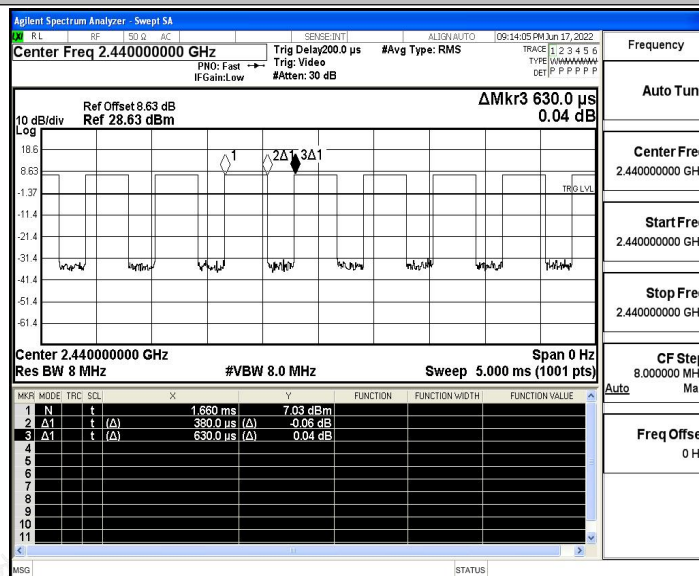


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

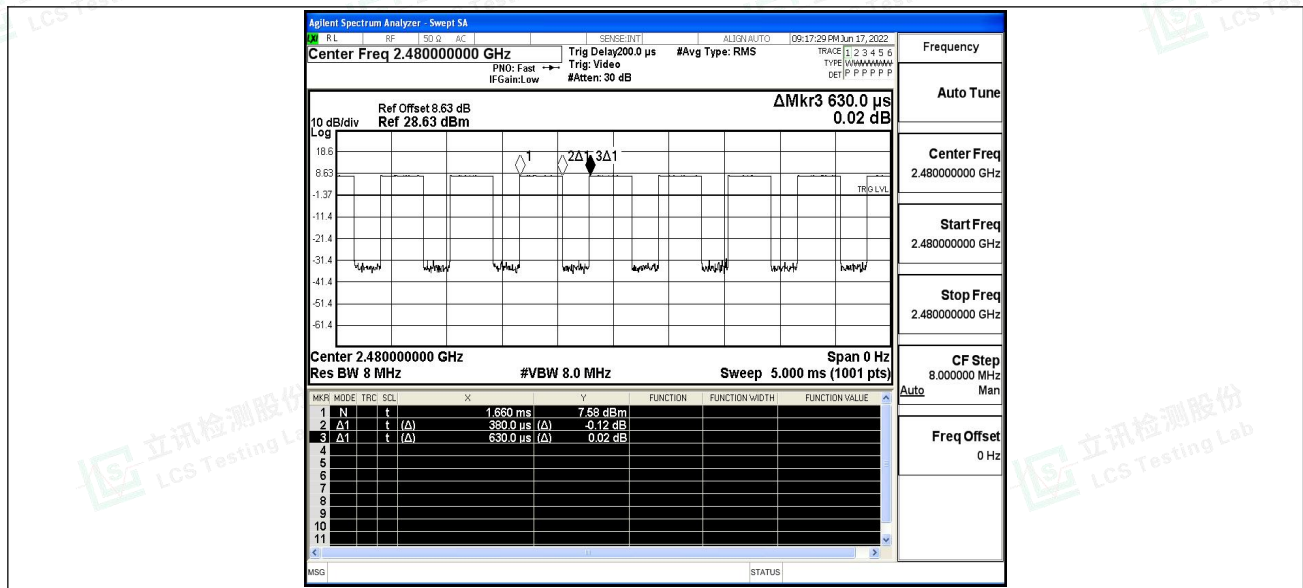


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A.7 Emissions in Restricted Bands

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	-57.3	≤-41.20	37.90	≤54	PASS
				AV	2389.985	-55.83	≤-41.20	39.37	≤54	PASS
				AV	2390.000	-55.83	≤-41.20	39.37	≤54	PASS
				Peak	2310.000	-48.56	≤-21.20	46.64	≤74	PASS
				Peak	2351.660	-45.79	≤-21.20	49.41	≤74	PASS
				Peak	2390.000	-46.81	≤-21.20	48.39	≤74	PASS
		High	2480	AV	2483.500	-47.84	≤-41.20	47.36	≤54	PASS
				AV	2483.520	-47.84	≤-41.20	47.36	≤54	PASS
				AV	2500.000	-55.8	≤-41.20	39.40	≤54	PASS
				Peak	2483.500	-45.79	≤-21.20	49.41	≤74	PASS
				Peak	2484.800	-44.38	≤-21.20	50.82	≤74	PASS
				Peak	2500.000	-46.88	≤-21.20	48.32	≤74	PASS

Note:

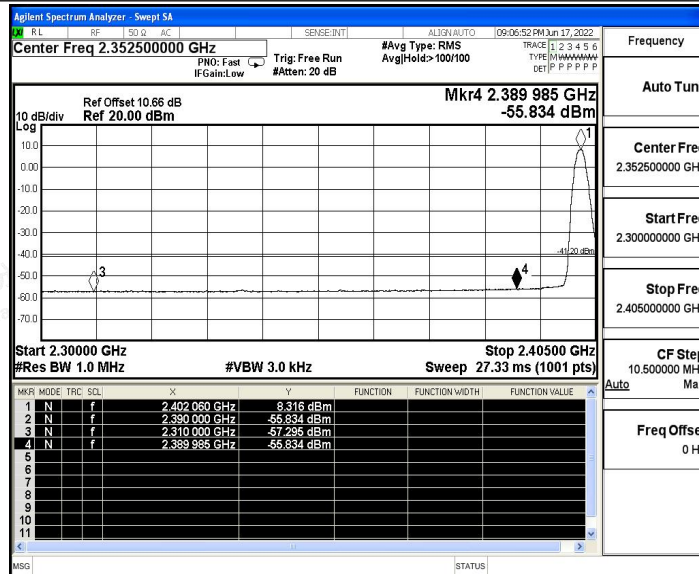
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



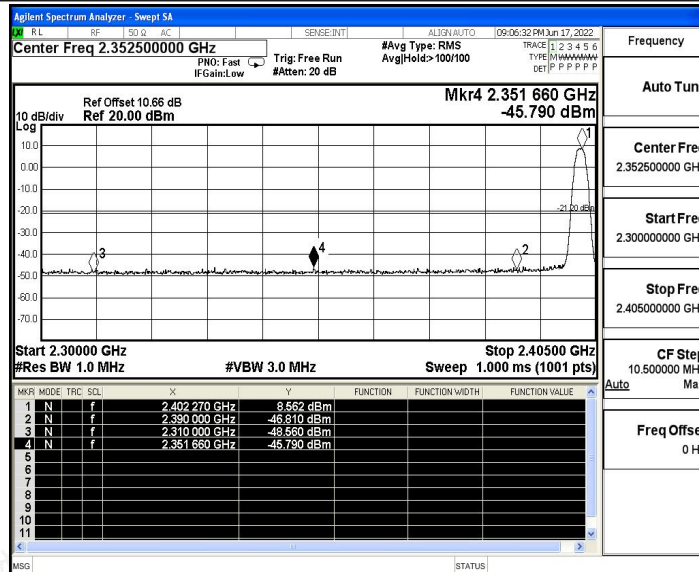


Test Graphs

BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV

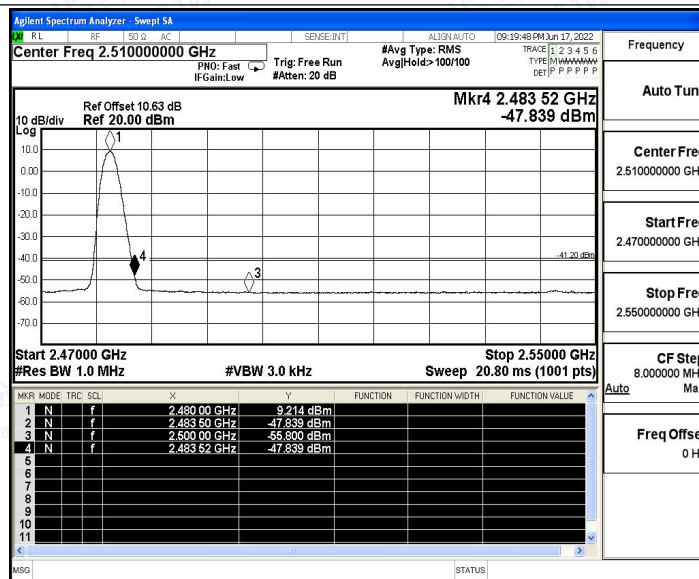


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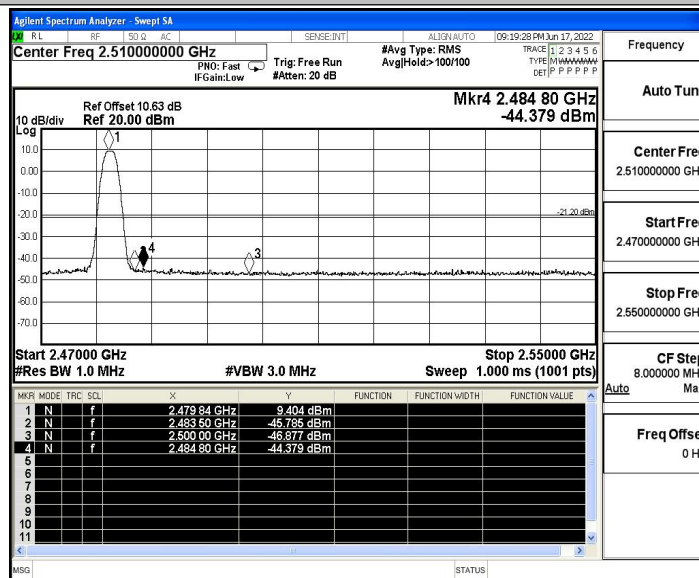
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BLE_1M_Ant1_High_2480_Peak



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