



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: PANEL PC

Test Model: MT15

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
Supervised by:	Jack Cheng



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B.1 DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.684	2401.648	2402.332	0.5	PASS
		2440	0.708	2439.632	2440.340	0.5	PASS
		2480	0.712	2479.624	2480.336	0.5	PASS



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Test Graphs

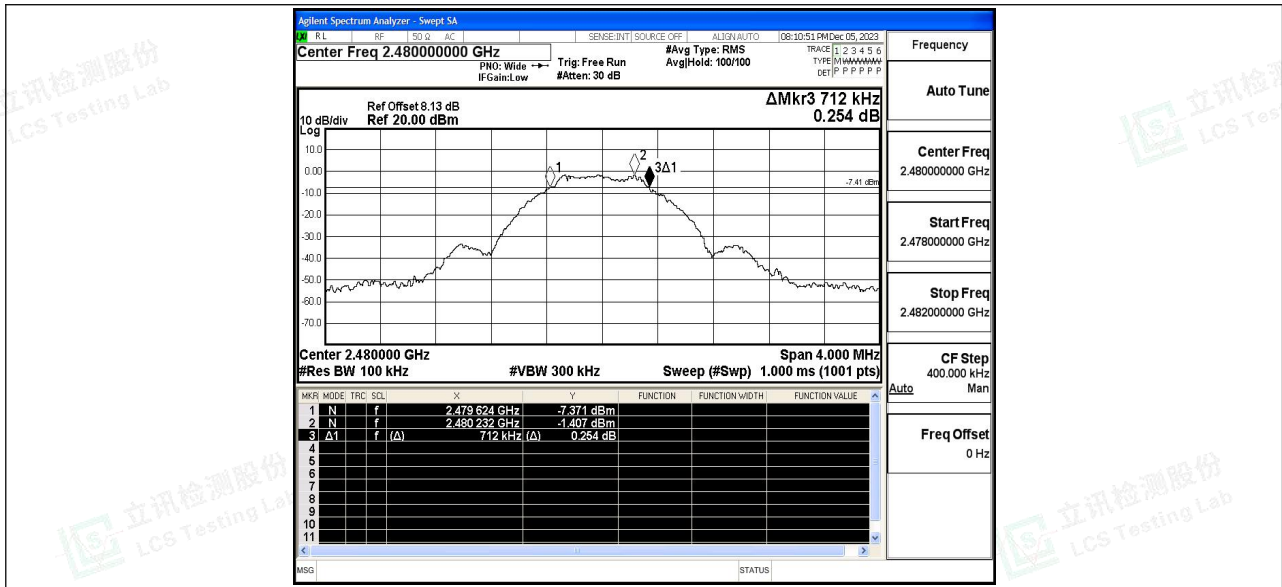


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B.2 Maximum Peak conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.53	≤30	PASS
		2440	-0.36	≤30	PASS
		2480	-0.25	≤30	PASS



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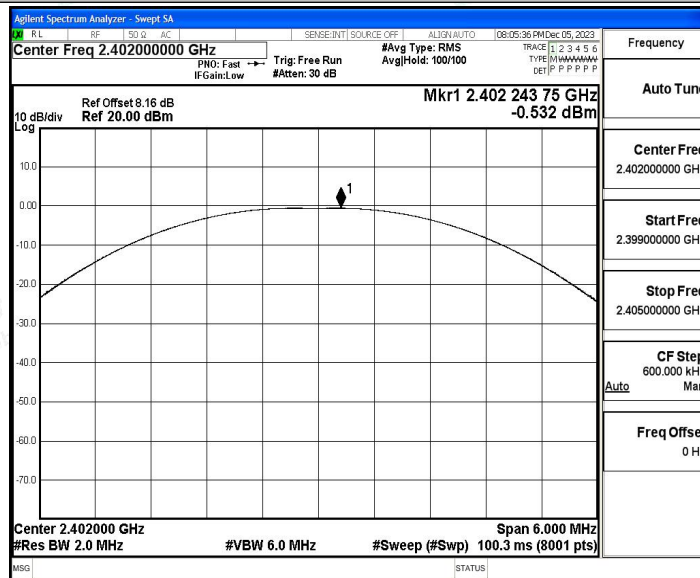
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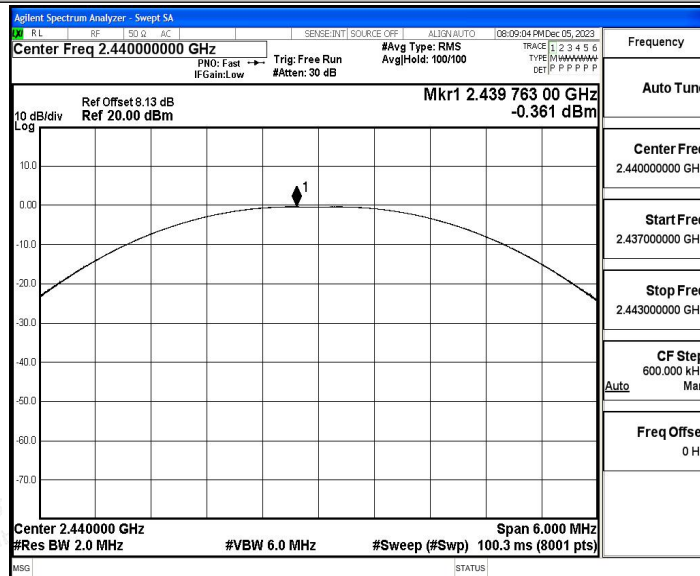


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

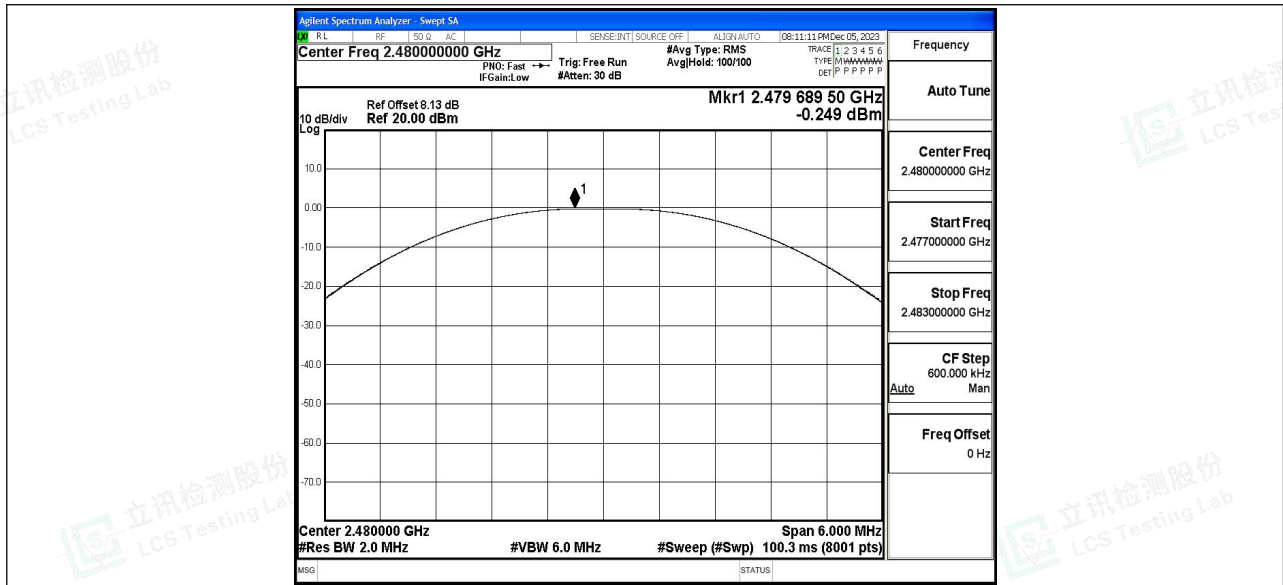


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B.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.71	≤8.00	PASS
		2440	-15.49	≤8.00	PASS
		2480	-15.39	≤8.00	PASS



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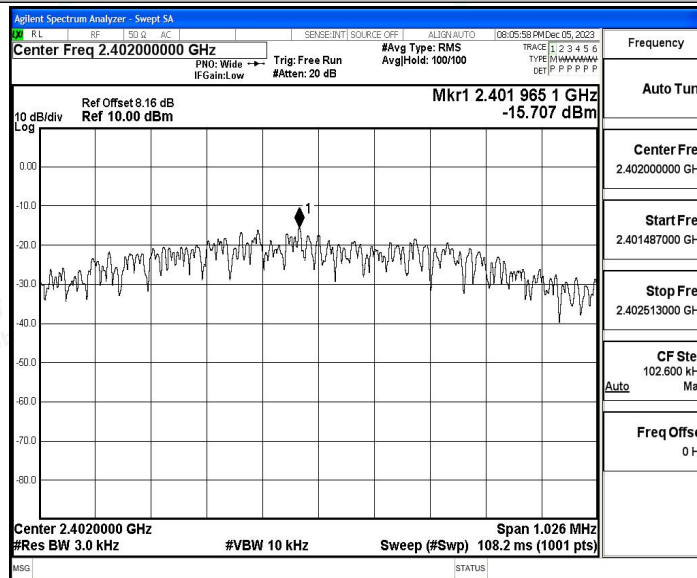
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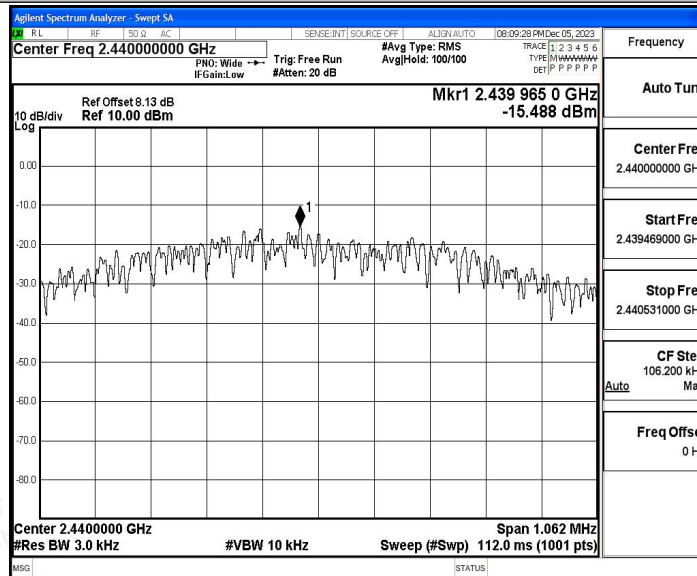


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

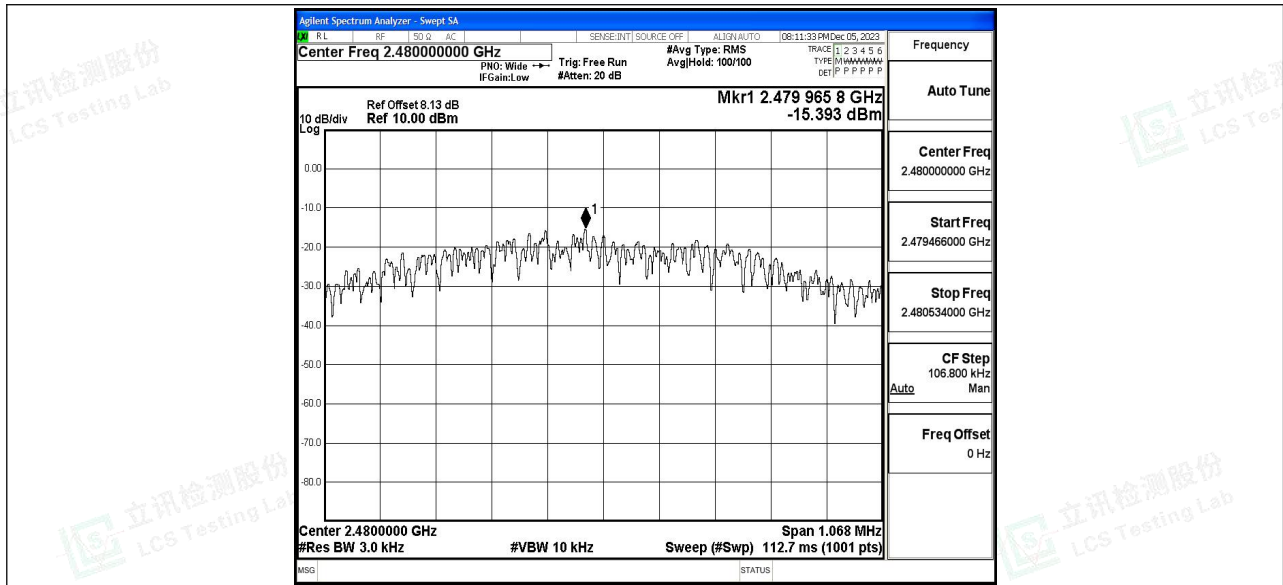


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B.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.66	-50.04	≤ -21.66	PASS
		High	2480	-1.31	-49.88	≤ -21.31	PASS



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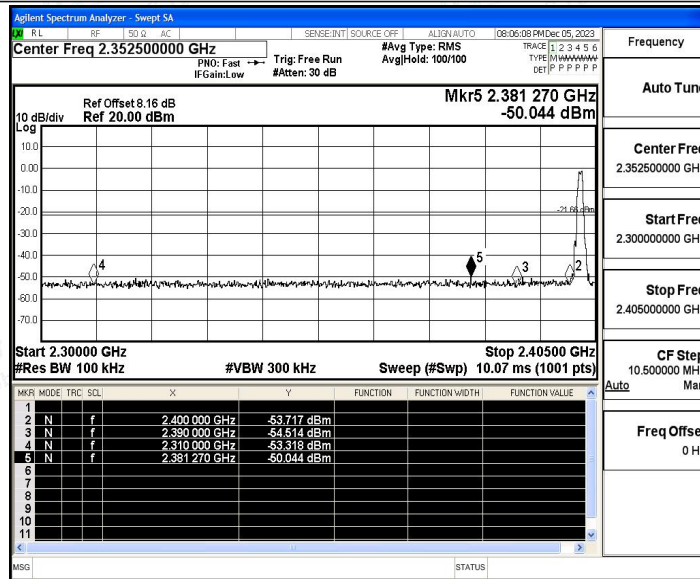
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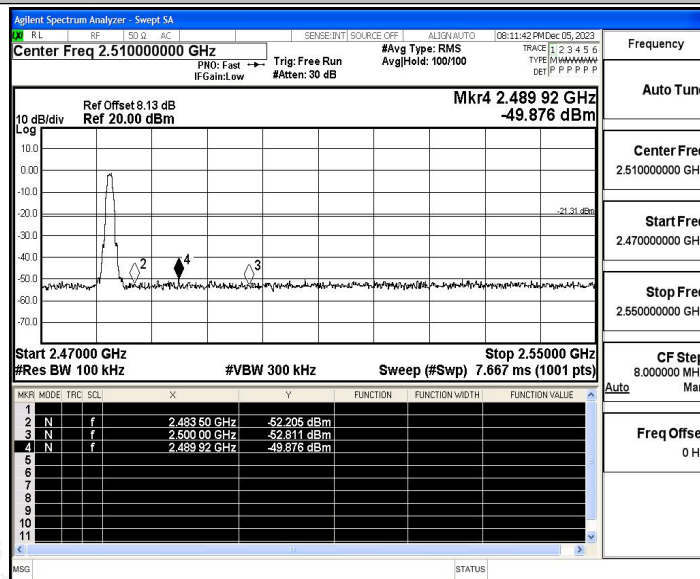


Test Graphs

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	30~1000	-1.66	-61.53	≤-21.66	PASS
			1000~26500	-1.66	-49.22	≤-21.66	PASS
		2440	30~1000	-1.44	-61.75	≤-21.44	PASS
			1000~26500	-1.44	-49.47	≤-21.44	PASS
		2480	30~1000	-1.31	-62.19	≤-21.31	PASS
			1000~26500	-1.31	-49.23	≤-21.31	PASS



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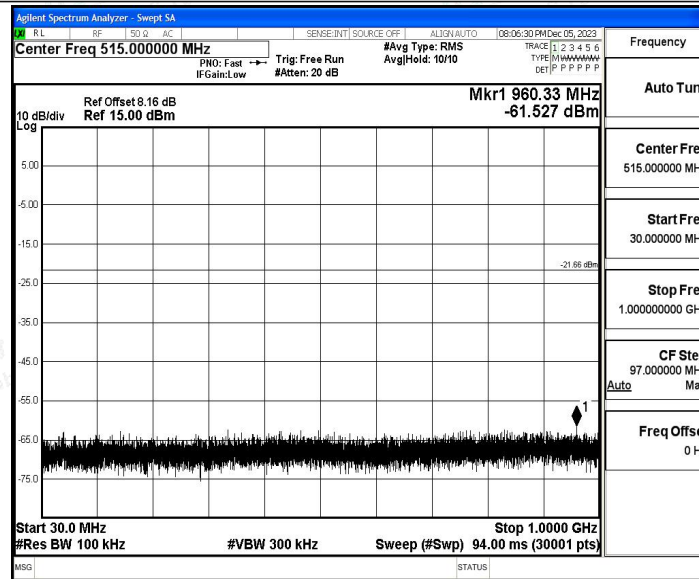
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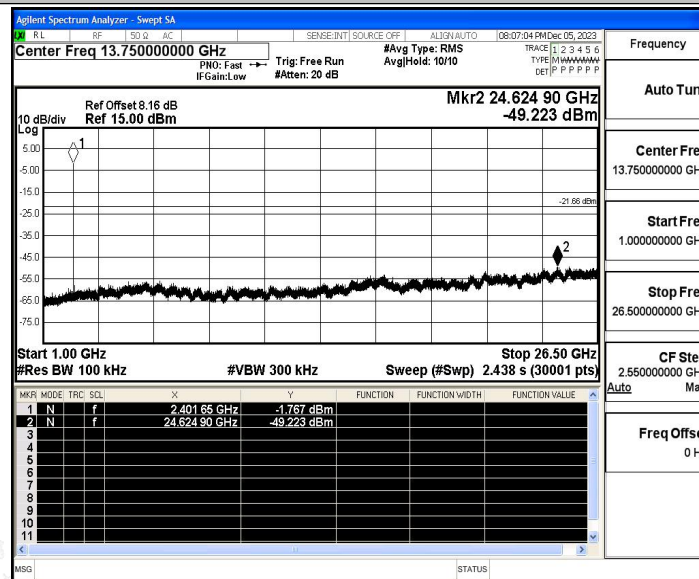


Test Graphs

BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500



BLE_1M_Ant1_2440_30~1000

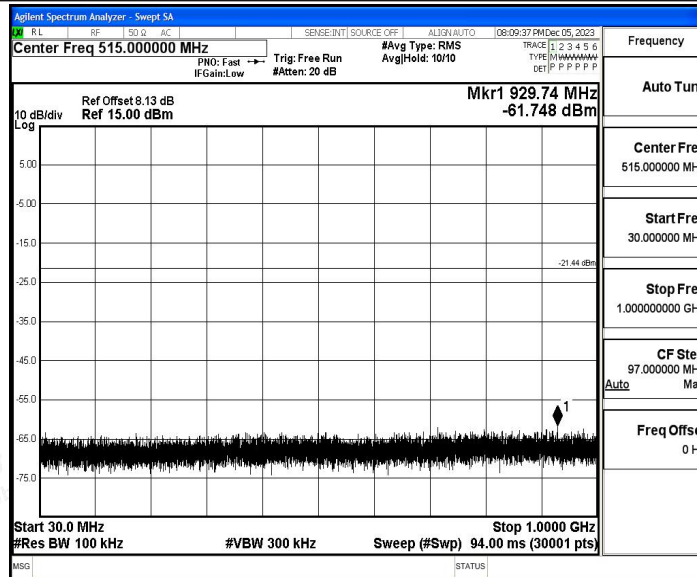


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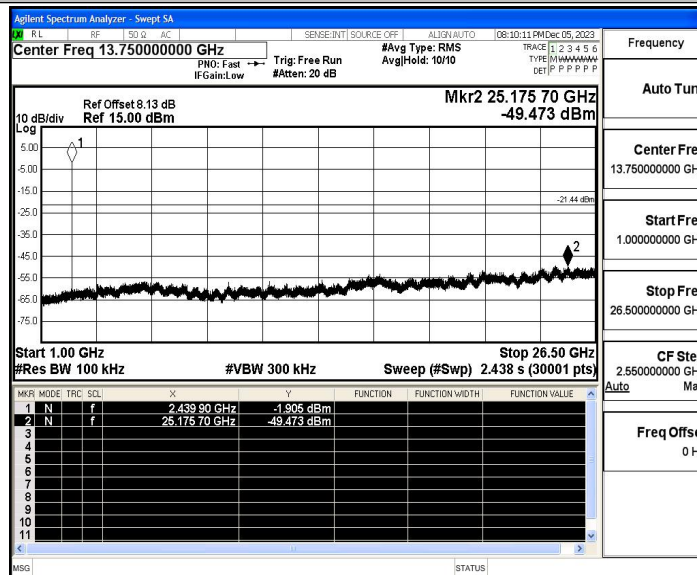
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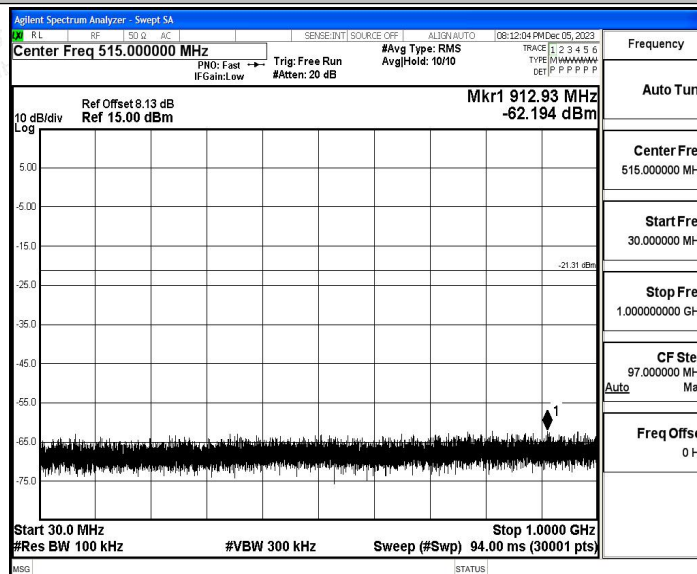
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_30~1000



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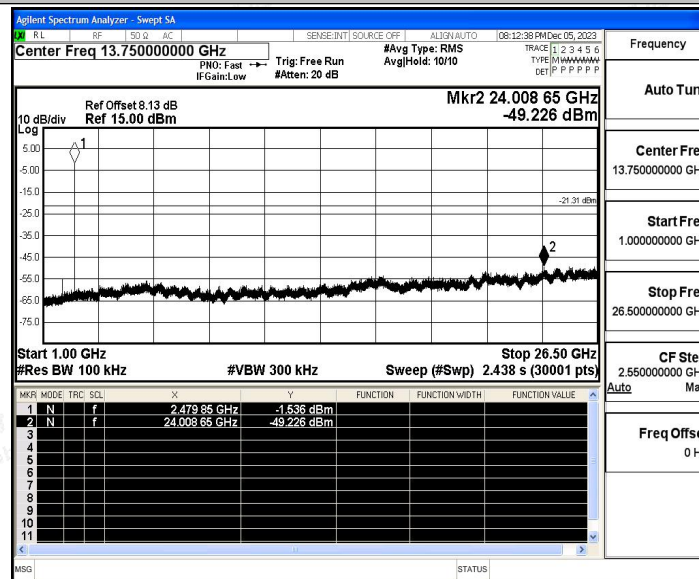
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BLE_1M_Ant1_2480_1000~26500



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B.6 Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[dB]
BLE_1M	Ant1	2402	0.38	0.63	60.32	2.20	2.63
		2440	0.38	0.63	60.32	2.20	2.63
		2480	0.38	0.63	60.32	2.20	2.63



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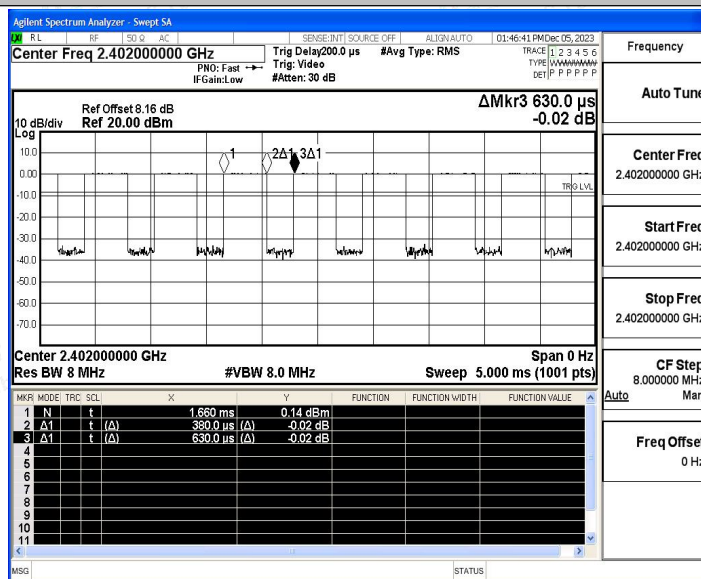
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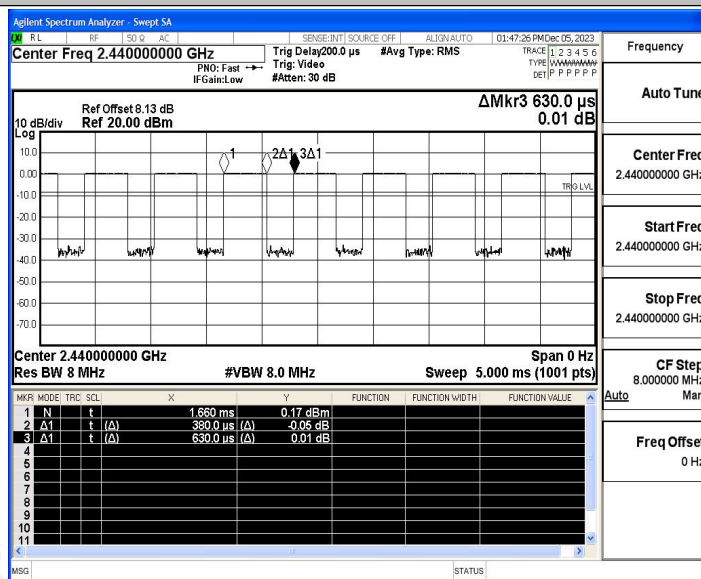
Scan code to check authenticity



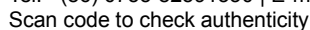
BLE 1M Ant1 2402

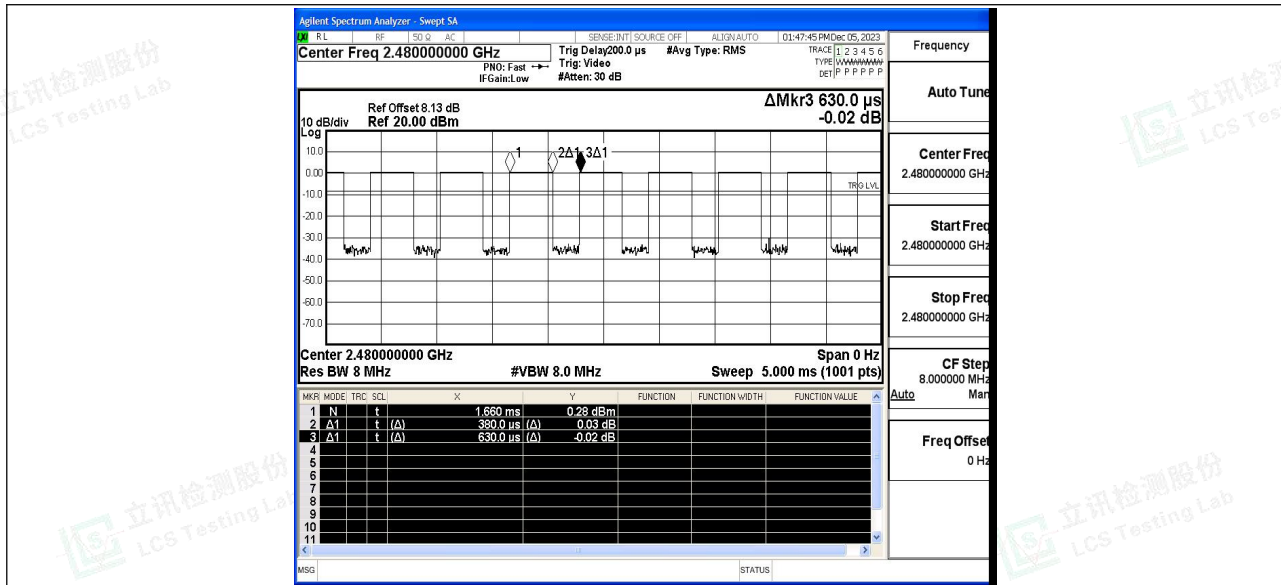


BLE 1M Ant1 2440



BLE 1M Ant1 2480







B.7 Emissions in Restricted Bands

Test Result

TestMode	Antenna	Channel Name	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-48.19	≤-41.20	47.01	≤54	PASS
				AV	2376.020	-47.52	≤-41.20	47.68	≤54	PASS
				AV	2390.000	-48.07	≤-41.20	47.13	≤54	PASS
				Peak	2310.000	-40.62	≤-21.20	54.58	≤74	PASS
				Peak	2361.320	-38.89	≤-21.20	56.31	≤74	PASS
				Peak	2390.000	-41.09	≤-21.20	54.11	≤74	PASS
		High	2480	AV	2483.500	-47.68	≤-41.20	47.52	≤54	PASS
				AV	2489.440	-47.58	≤-41.20	47.62	≤54	PASS
				AV	2500.000	-48.05	≤-41.20	47.15	≤54	PASS
				Peak	2483.500	-41.7	≤-21.20	53.50	≤74	PASS
				Peak	2490.400	-38.89	≤-21.20	56.31	≤74	PASS
				Peak	2500.000	-40.37	≤-21.20	54.83	≤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.



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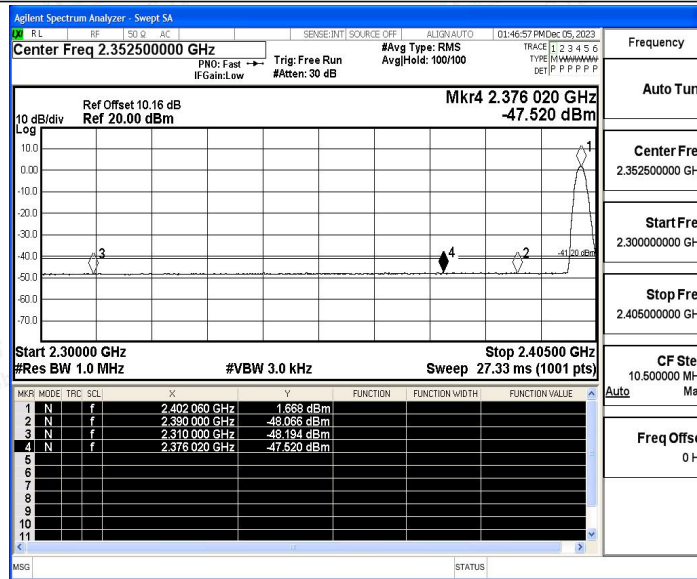
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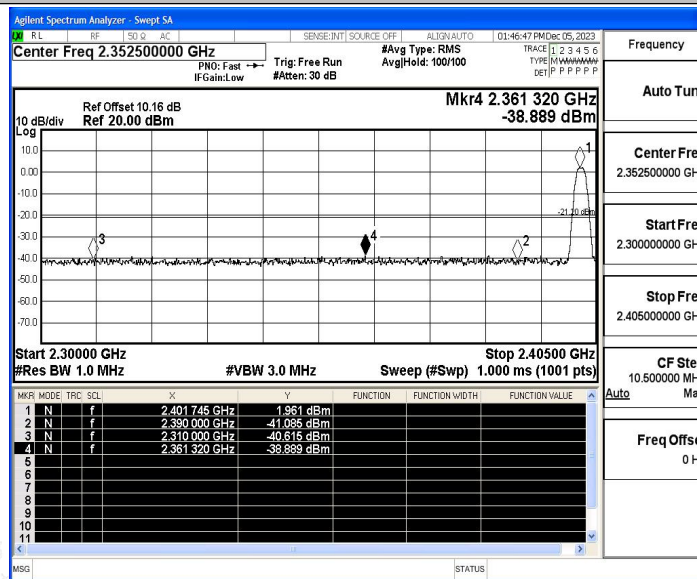


Test Graphs

BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV

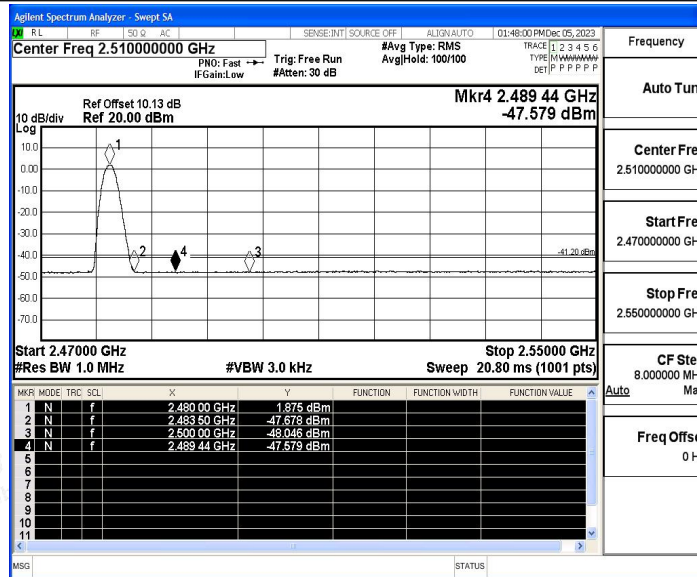


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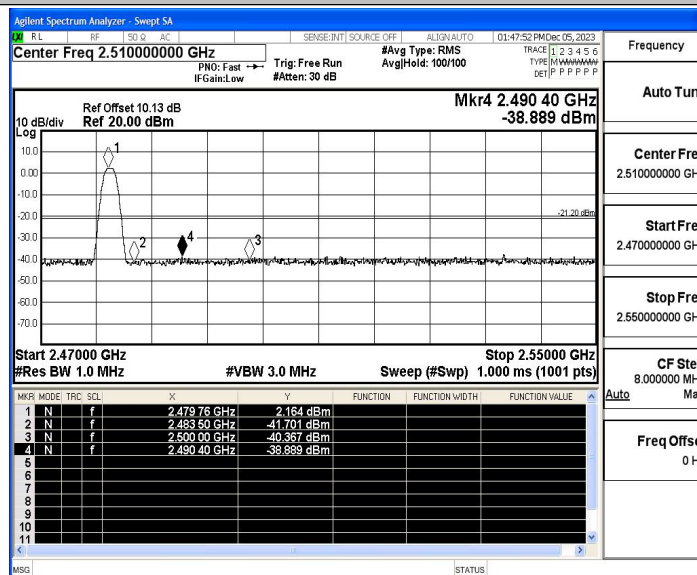
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BLE_1M_Ant1_High_2480_Peak



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