

Appendix Test Data

Report No.:	18220WC30039902	Test Sample No.:	1-2-2
Start Test Date:	2023.03.15	Finish Test Date:	2023.04.19
Test Engineer:	Rick Luo	Auditor:	Edward Pan
Temperature:	25.5°C	Relative Humidity:	51%
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.652	2401.672	2402.324	0.5	PASS
		2440	0.656	2439.668	2440.324	0.5	PASS
		2480	0.652	2479.672	2480.324	0.5	PASS
BLE_2M	Ant1	2402	1.112	2401.436	2402.548	0.5	PASS
		2440	1.104	2439.428	2440.532	0.5	PASS
		2480	1.160	2479.412	2480.572	0.5	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0200	2401.4941	2402.5141
		2440	1.0070	2439.4928	2440.4998
		2480	1.0226	2479.4924	2480.5150
BLE_2M	Ant1	2402	2.0229	2401.0012	2403.0241
		2440	2.0260	2438.9935	2441.0195
		2480	2.0100	2479.0052	2481.0152



Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.25	≤30	PASS
		2440	1.69	≤30	PASS
		2480	2.46	≤30	PASS
BLE_2M	Ant1	2402	1.37	≤30	PASS
		2440	1.80	≤30	PASS
		2480	2.59	≤30	PASS



Test Graphs Peak



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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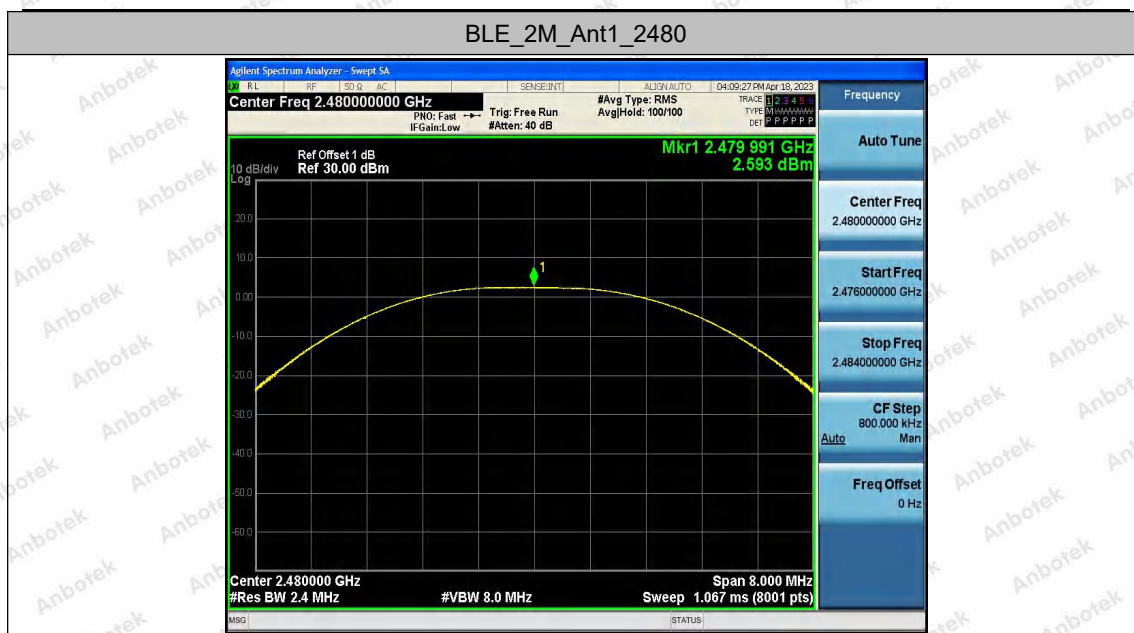


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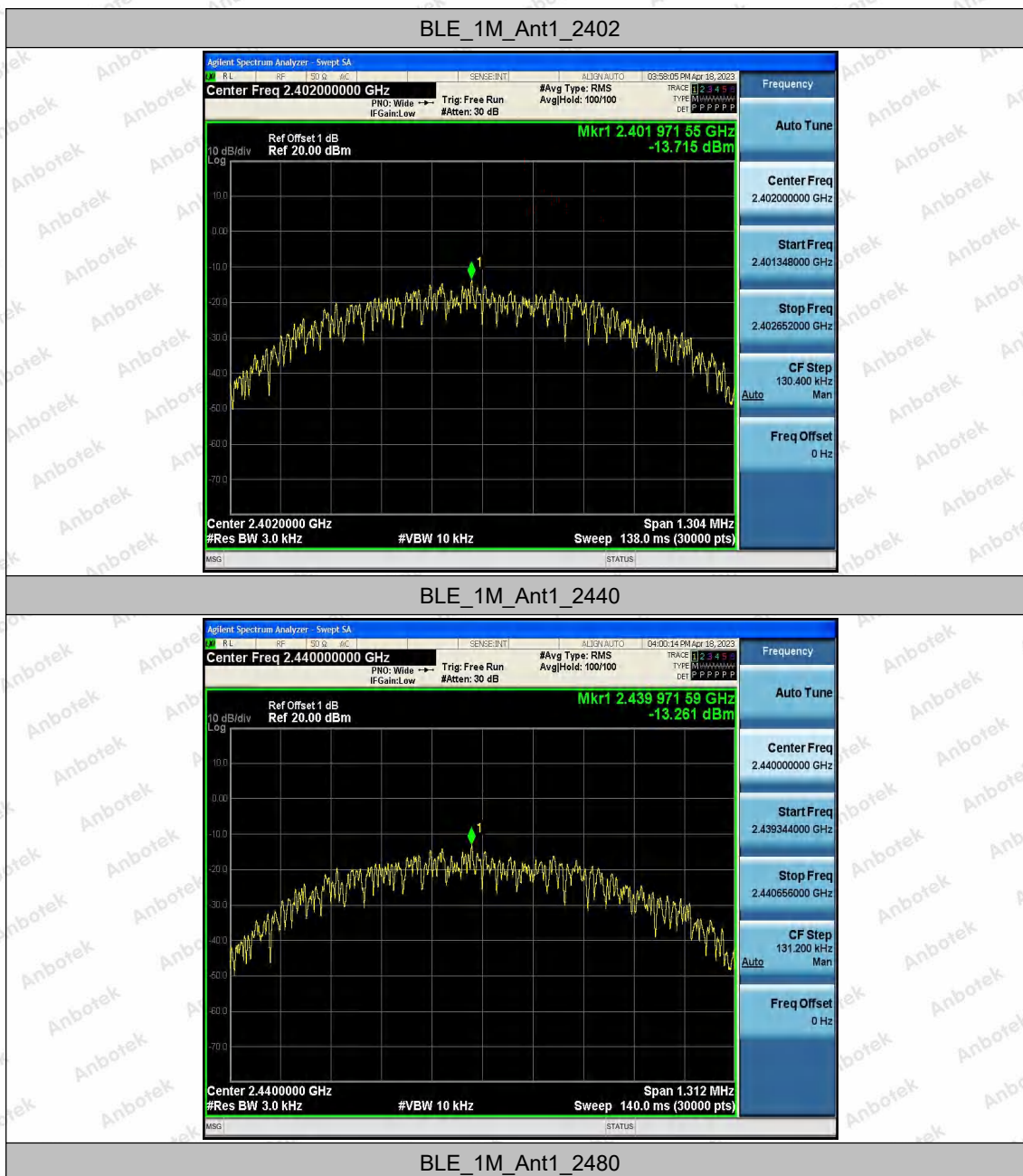
Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.72	≤8.00	PASS
		2440	-13.26	≤8.00	PASS
		2480	-12.47	≤8.00	PASS
BLE_2M	Ant1	2402	-16.65	≤8.00	PASS
		2440	-16.25	≤8.00	PASS
		2480	-15.4	≤8.00	PASS



Test Graphs



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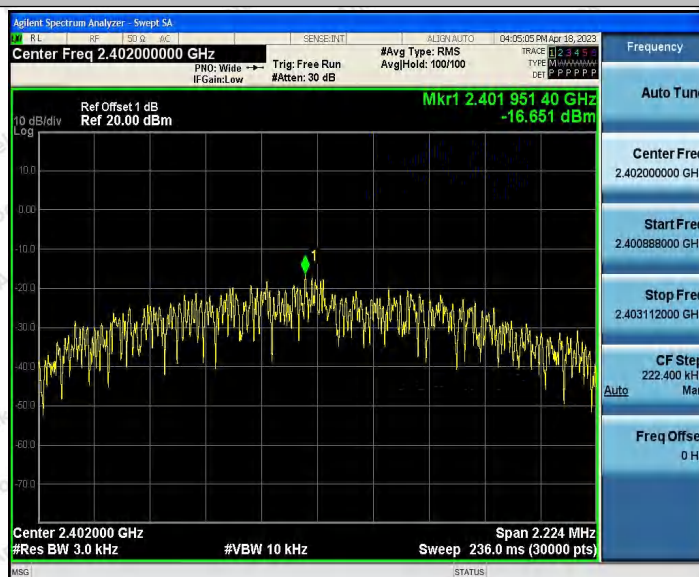
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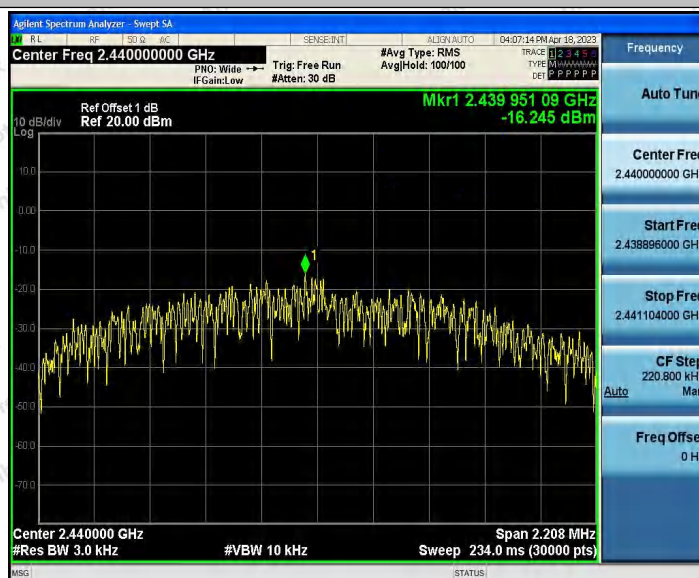




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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Appendix E: Band edge measurements

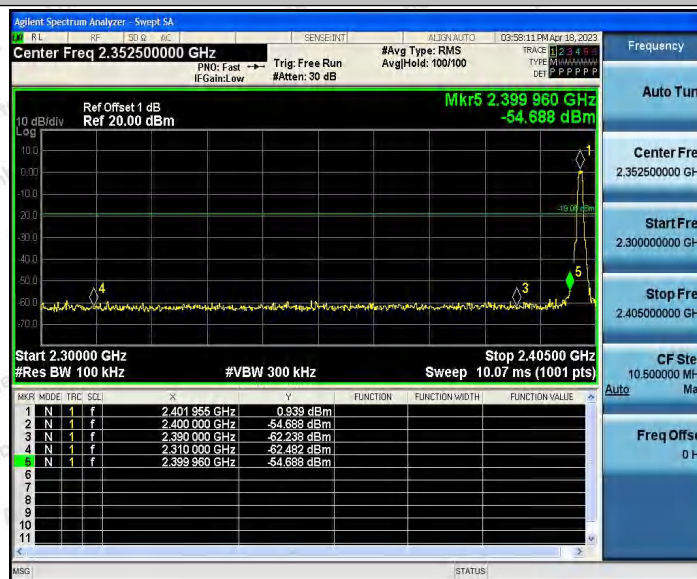
Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.94	-54.69	≤-19.06	PASS
		High	2480	1.86	-58.3	≤-18.14	PASS
BLE_2M	Ant1	Low	2402	-2.24	-48.09	≤-22.24	PASS
		High	2480	-0.86	-58	≤-20.86	PASS

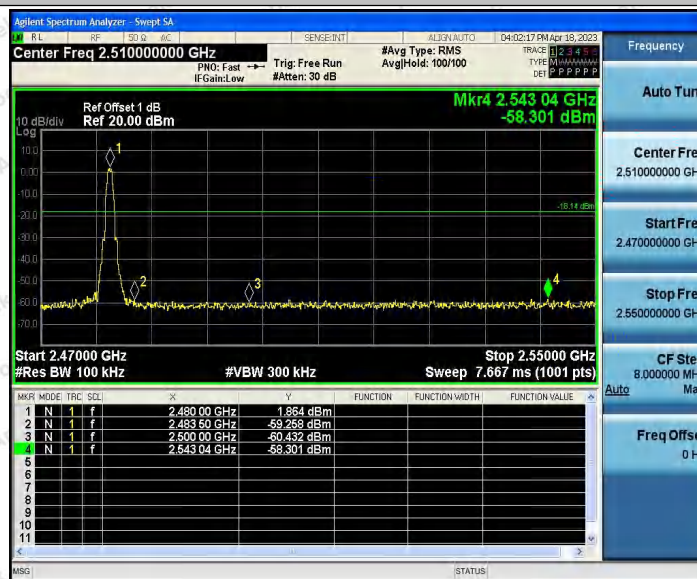


Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



BLE_2M_Ant1_Low_2402

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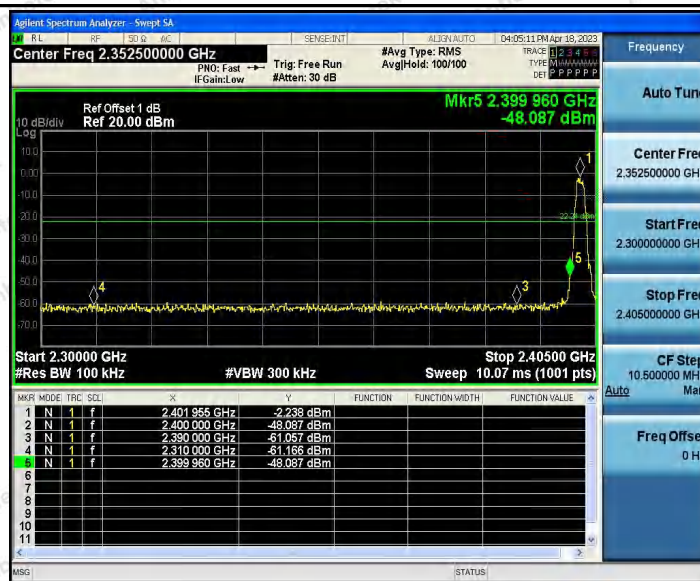


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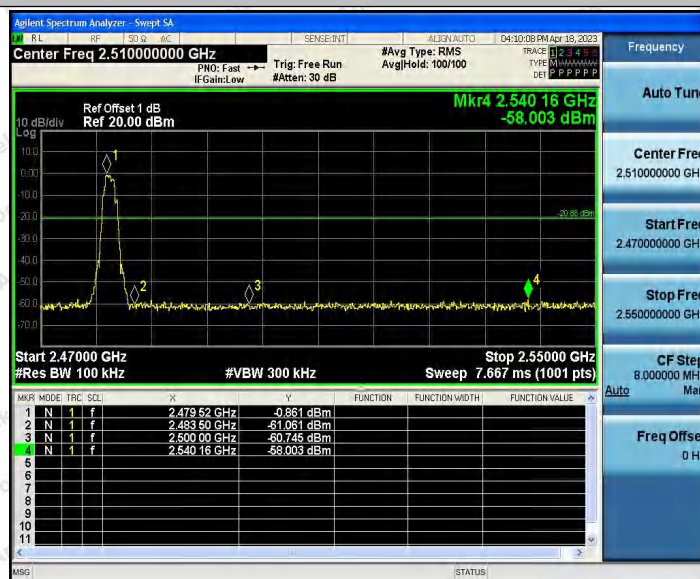
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BLE_2M_Ant1_High_2480



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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	0.55	0.55	---	PASS
			30~1000	0.55	-69.77	≤-19.45	PASS
			1000~26500	0.55	-53.7	≤-19.45	PASS
		2440	Reference	0.82	0.82	---	PASS
			30~1000	0.82	-70.04	≤-19.18	PASS
			1000~26500	0.82	-54.68	≤-19.18	PASS
		2480	Reference	1.37	1.37	---	PASS
			30~1000	1.37	-69.7	≤-18.63	PASS
			1000~26500	1.37	-54.41	≤-18.63	PASS
BLE_2M	Ant1	2402	Reference	-3.14	-3.14	---	PASS
			30~1000	-3.14	-69.34	≤-23.14	PASS
			1000~26500	-3.14	-53.75	≤-23.14	PASS
		2440	Reference	1.27	1.27	---	PASS
			30~1000	1.27	-69.94	≤-18.73	PASS
			1000~26500	1.27	-54.41	≤-18.73	PASS
		2480	Reference	0.83	0.83	---	PASS
			30~1000	0.83	-69.28	≤-19.17	PASS
			1000~26500	0.83	-54.89	≤-19.17	PASS

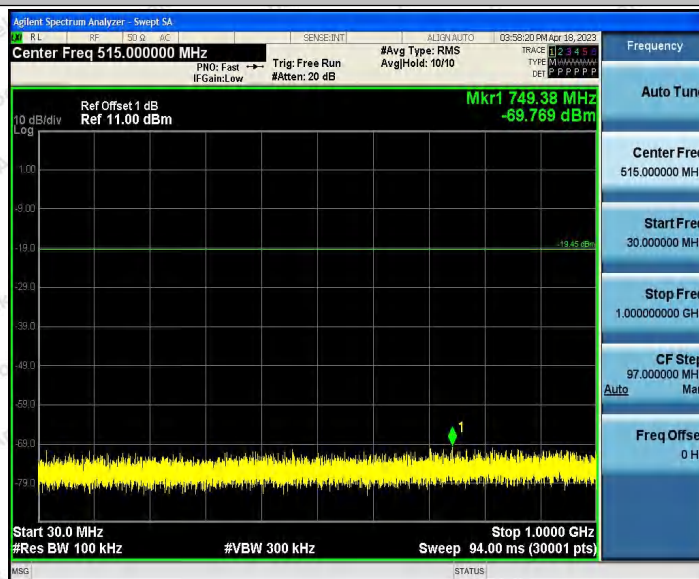


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

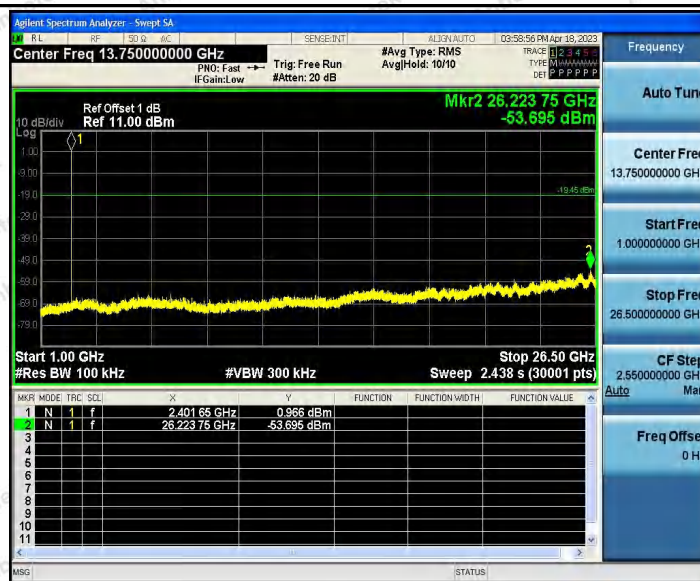
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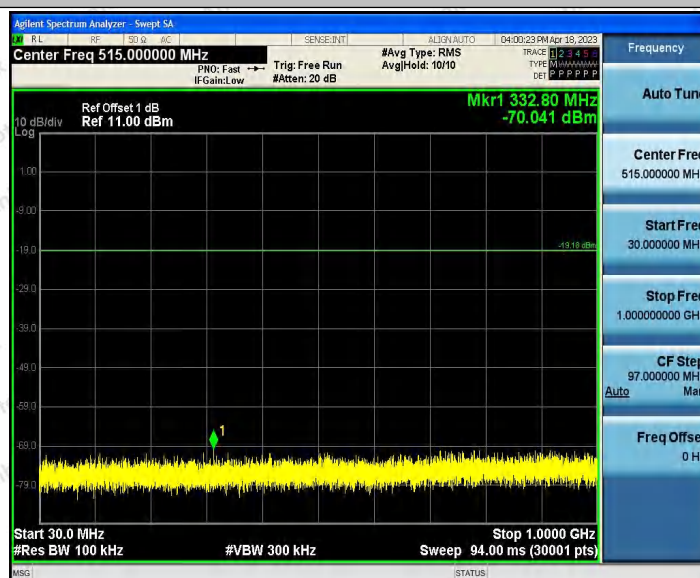




BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



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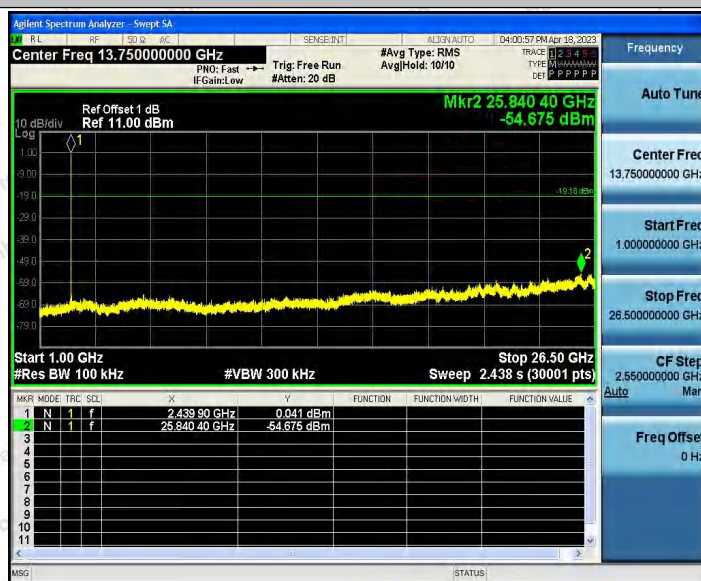
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000

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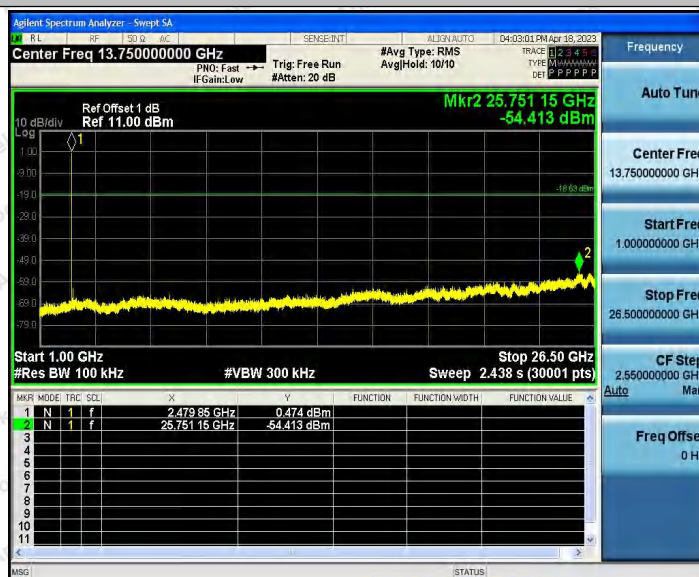


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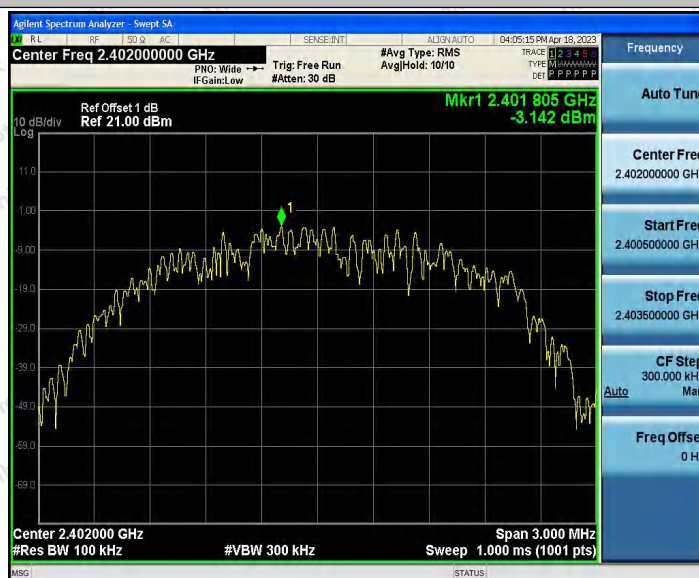




BLE_1M_Ant1_2480_1000~26500



BLE_2M_Ant1_2402_0~Reference



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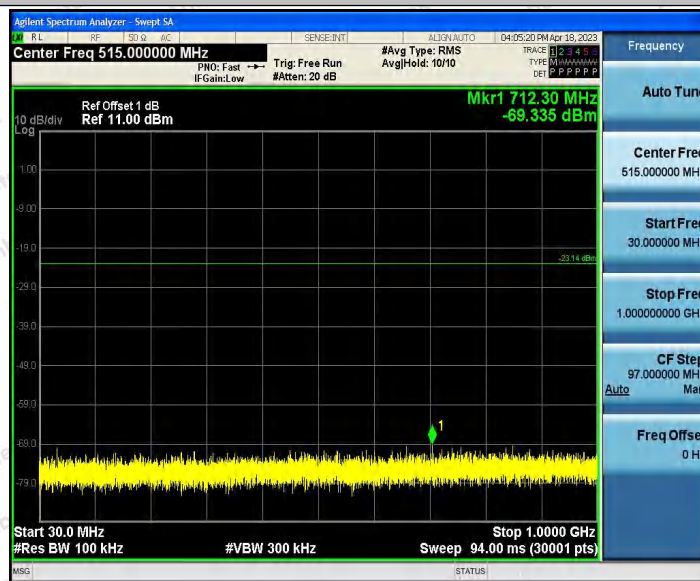
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BLE_2M_Ant1_2402_30~1000



BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

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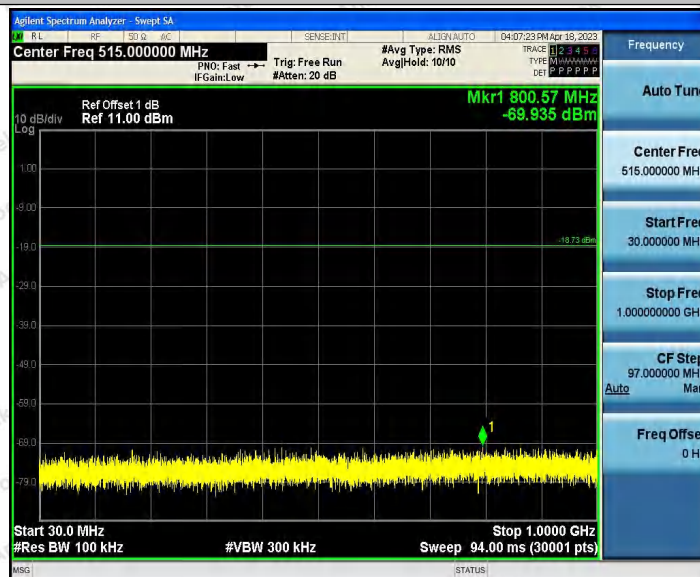


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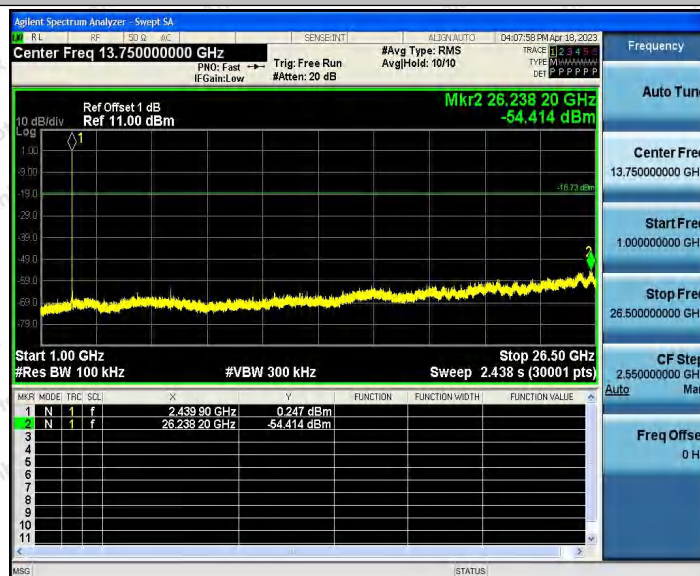




BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500



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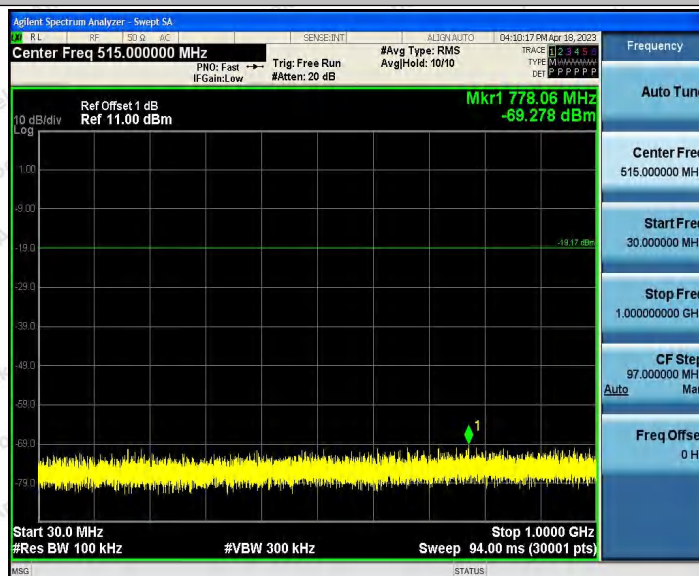
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BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



BLE_2M_Ant1_2480_1000~26500

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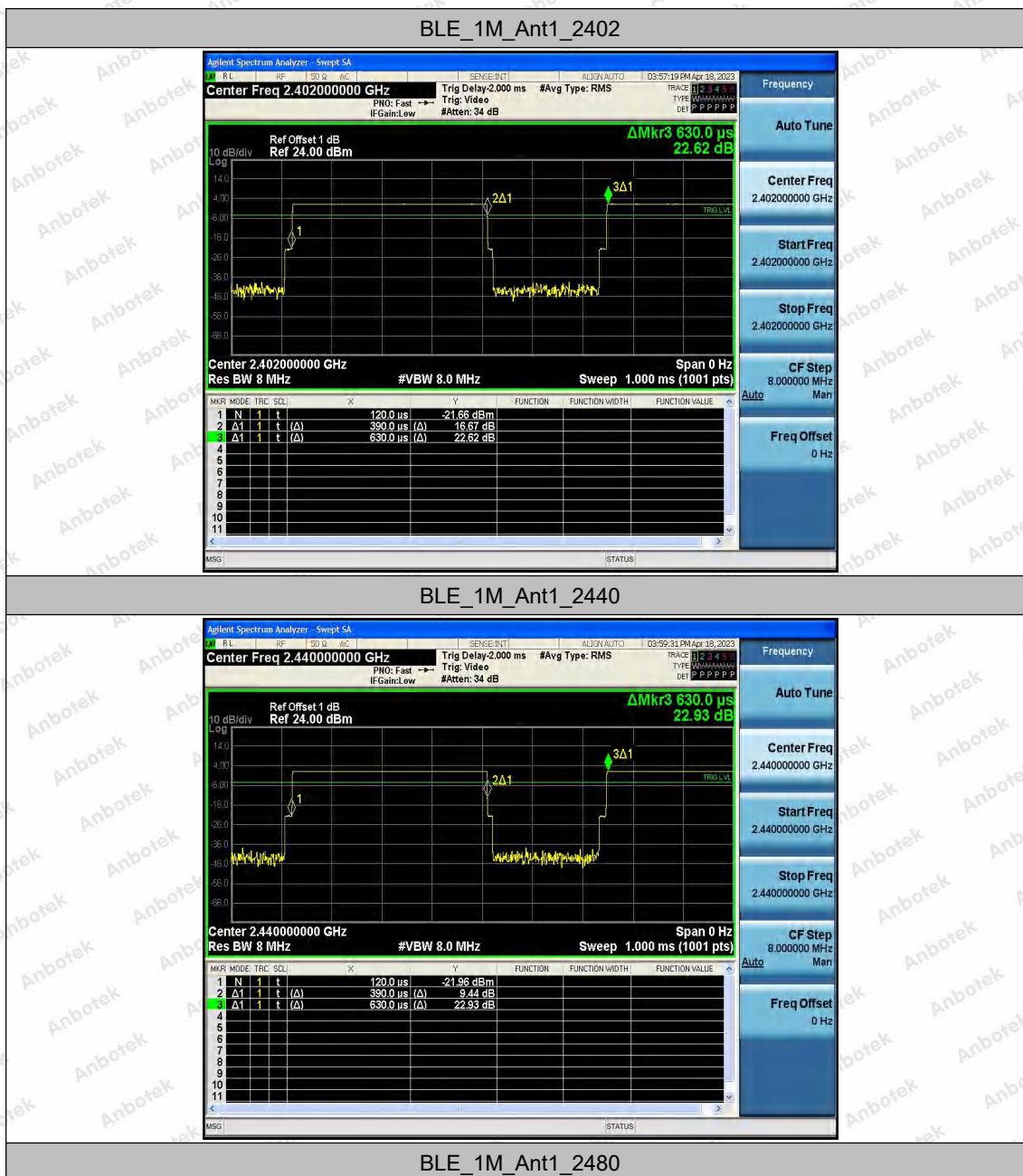
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.39	0.63	61.90	2.08
		2440	0.39	0.63	61.90	2.08
		2480	0.39	0.63	61.90	2.08
BLE_2M	Ant1	2402	0.21	0.63	33.33	4.77
		2440	0.21	0.63	33.33	4.77
		2480	0.21	0.63	33.33	4.77



Test Graphs



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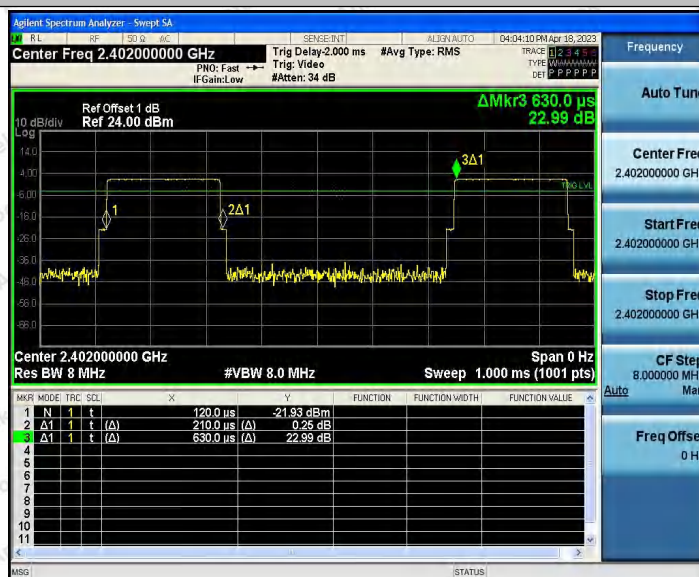
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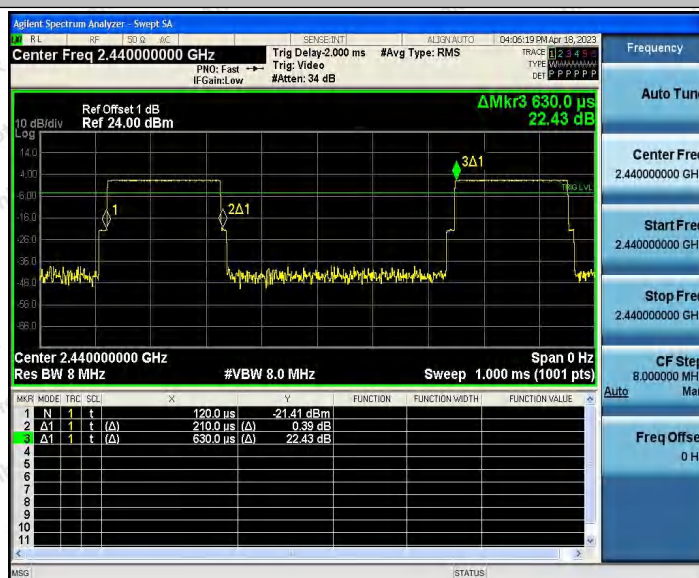




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

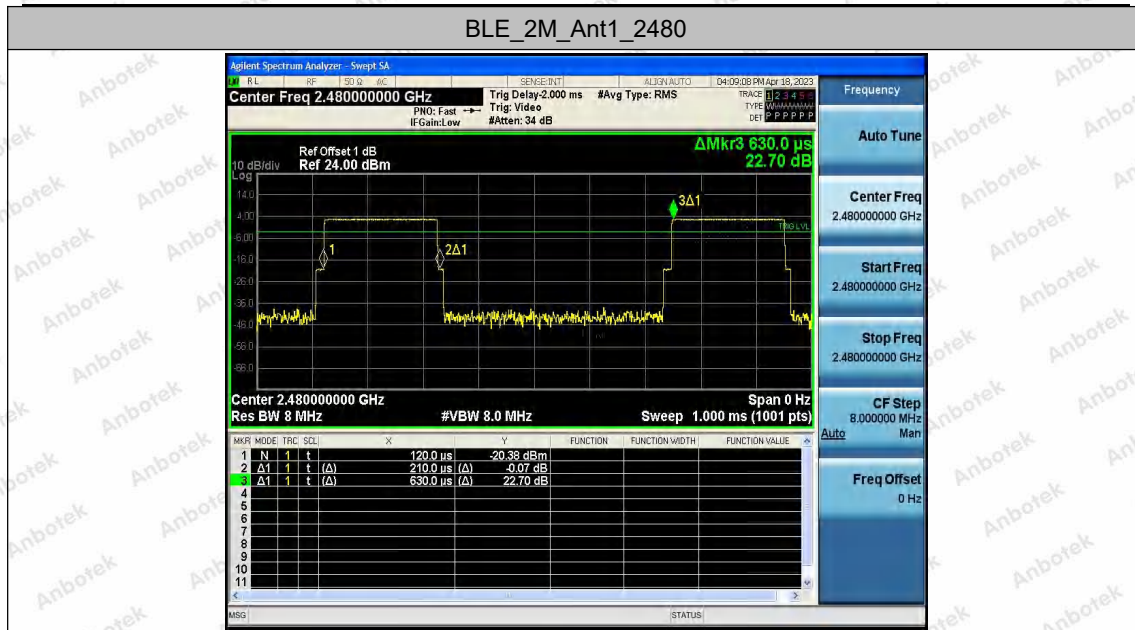


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