

Appendix Test Data

Report No.:	18220WC20226801	Test Sample No.:	1-2-2
Start Test Date:	2022.9.22	Finish Test Date:	2022.9.24
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	27.3°C	Relative Humidity:	47 %
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	0.676	2401.672	2402.348	0.5	PASS
		2440	0.696	2439.664	2440.360	0.5	PASS
		2480	0.664	2479.672	2480.336	0.5	PASS
BLE_2M	Ant1	2402	1.000	2401.504	2402.504	0.5	PASS
		2440	1.000	2439.500	2440.500	0.5	PASS
		2480	1.084	2479.416	2480.500	0.5	PASS

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Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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BLE_2M_Ant1_2480



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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.1436	2401.4108	2402.5544
		2440	1.1106	2439.4352	2440.5458
		2480	1.1021	2479.4468	2480.5489
BLE_2M	Ant1	2402	2.1790	2400.9211	2403.1001
		2440	2.2068	2438.9045	2441.1113
		2480	2.2350	2478.8854	2481.1204

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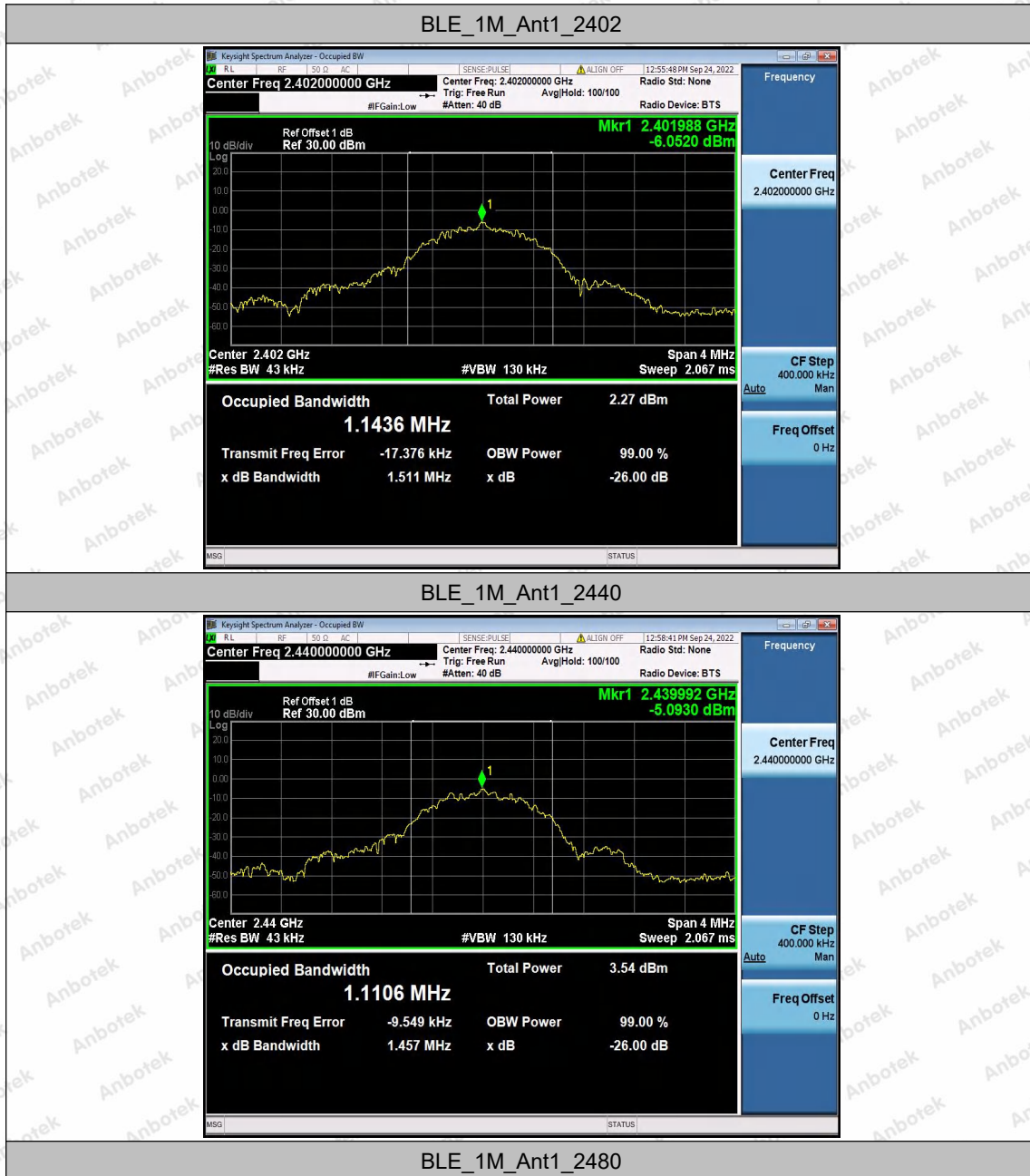
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Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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BLE_2M_Ant1_2480



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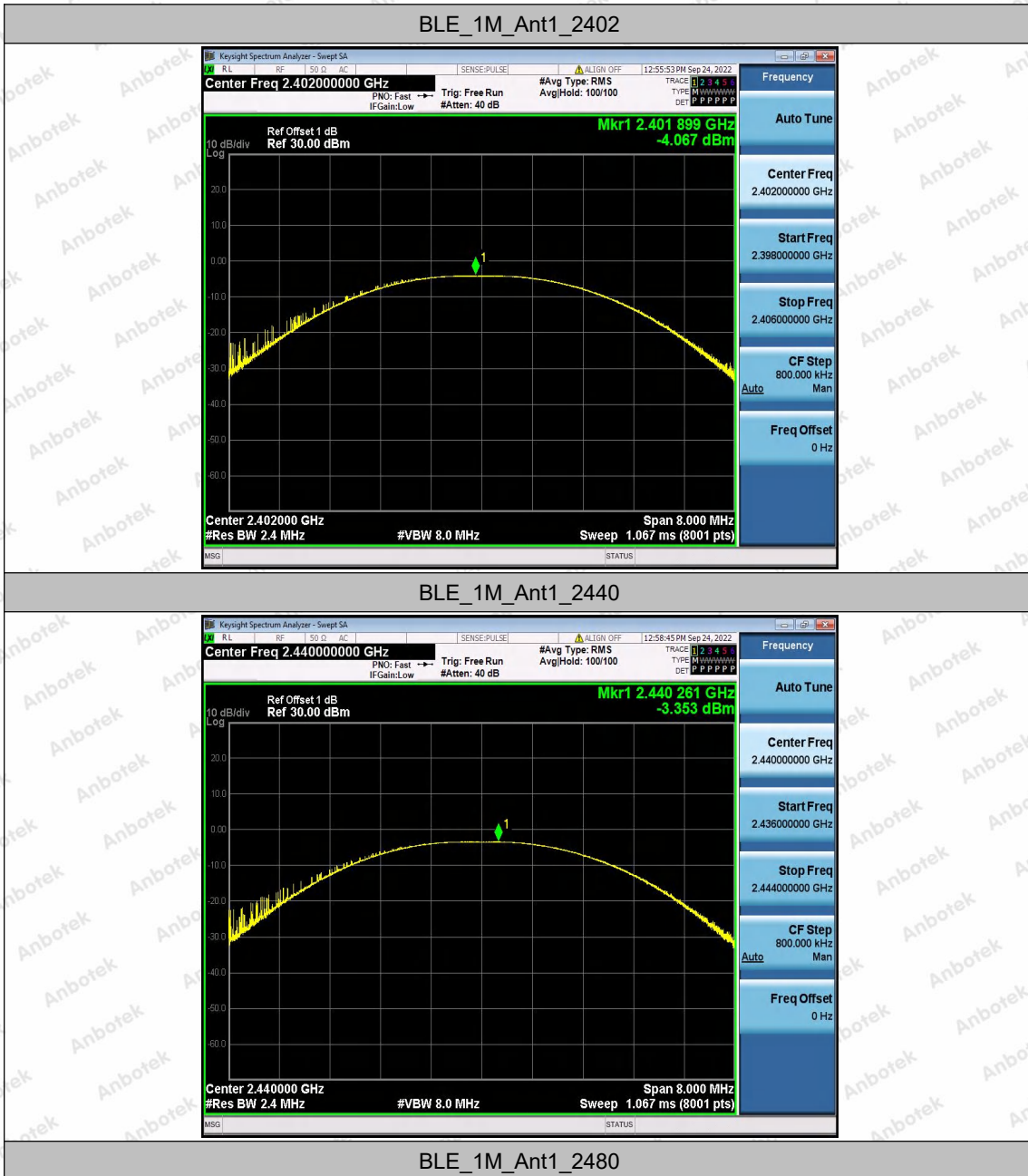
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-4.07	≤30	PASS
		2440	-3.35	≤30	PASS
		2480	-2.4	≤30	PASS
BLE_2M	Ant1	2402	-4.08	≤30	PASS
		2440	-3.36	≤30	PASS
		2480	-2.38	≤30	PASS



Test Graphs Peak



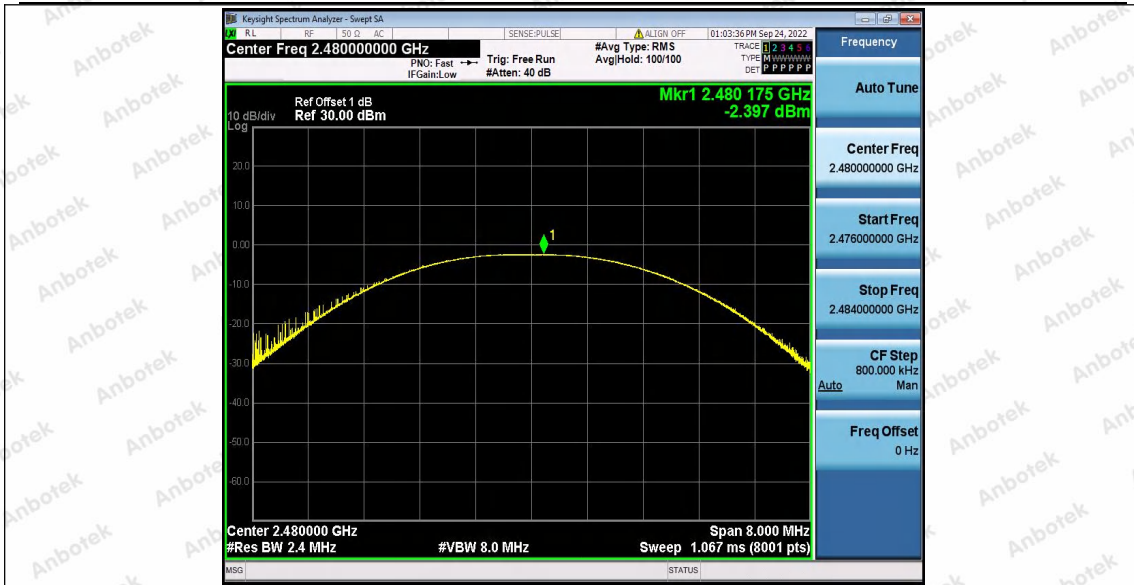
BLE_1M_Ant1_2480

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BLE_2M_Ant1_2402



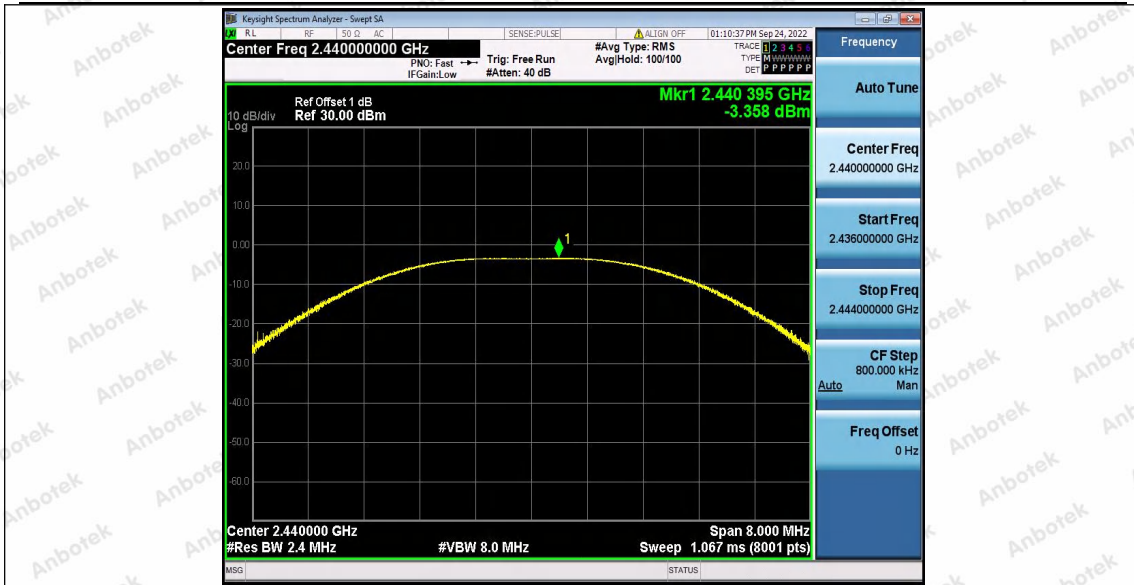
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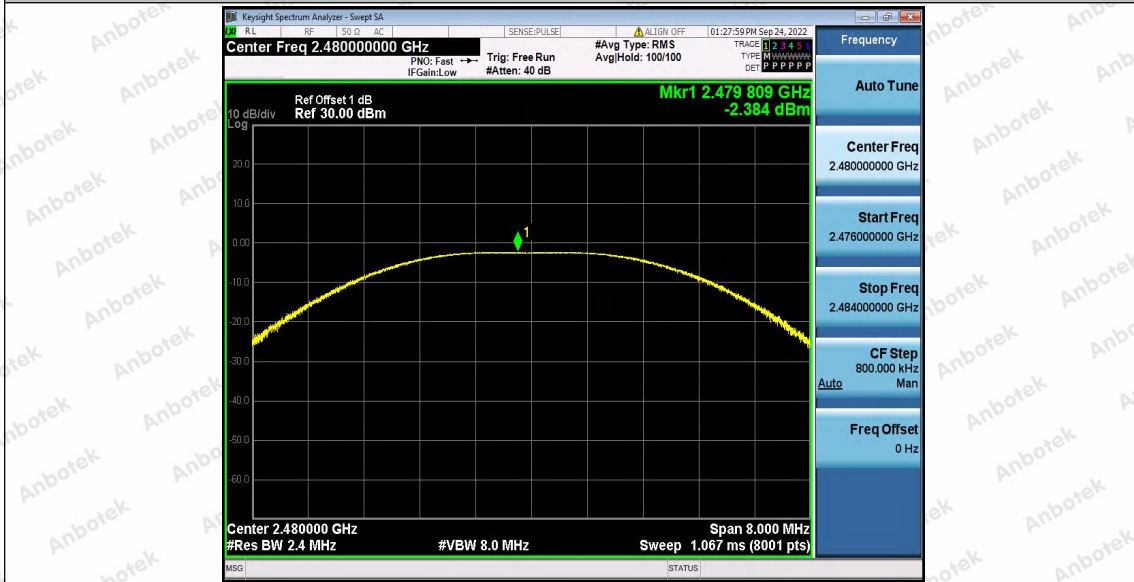
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BLE_2M_Ant1_2480



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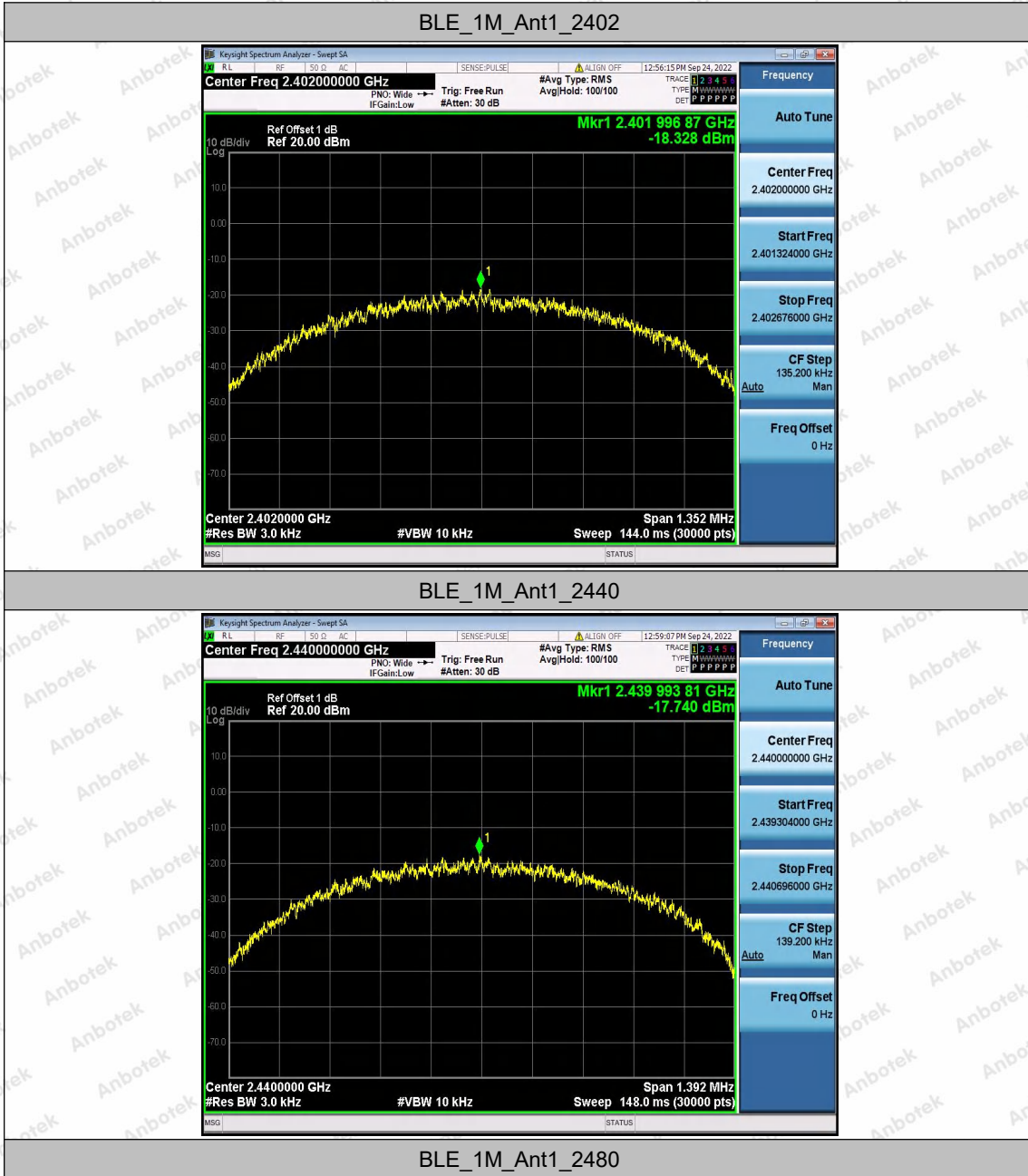
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.33	≤8.00	PASS
		2440	-17.74	≤8.00	PASS
		2480	-16.51	≤8.00	PASS
BLE_2M	Ant1	2402	-20.09	≤8.00	PASS
		2440	-19.26	≤8.00	PASS
		2480	-17.42	≤8.00	PASS



Test Graphs



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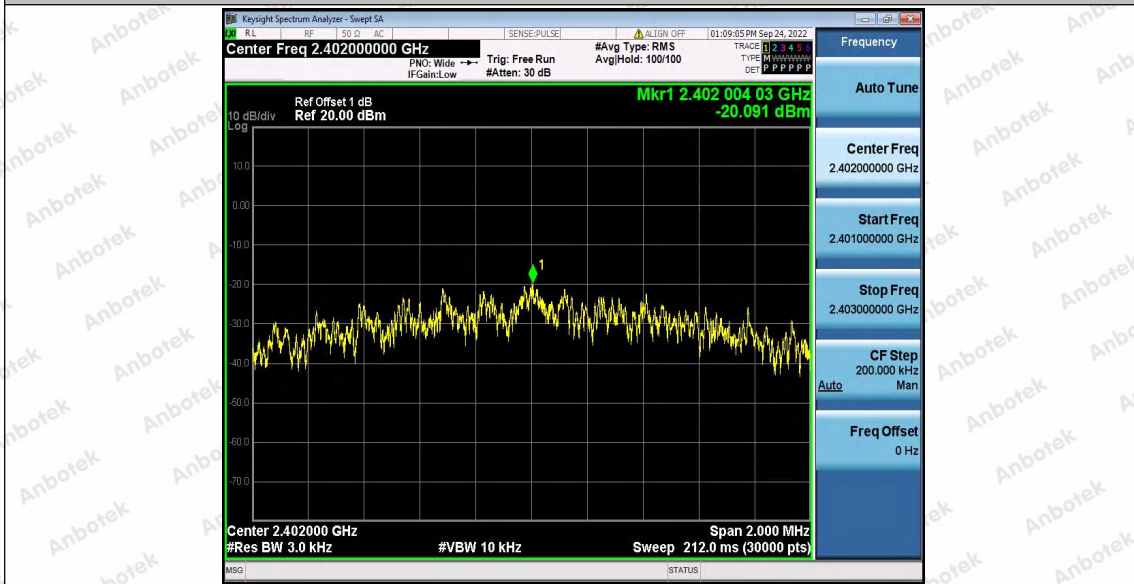
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BLE_2M_Ant1_2402



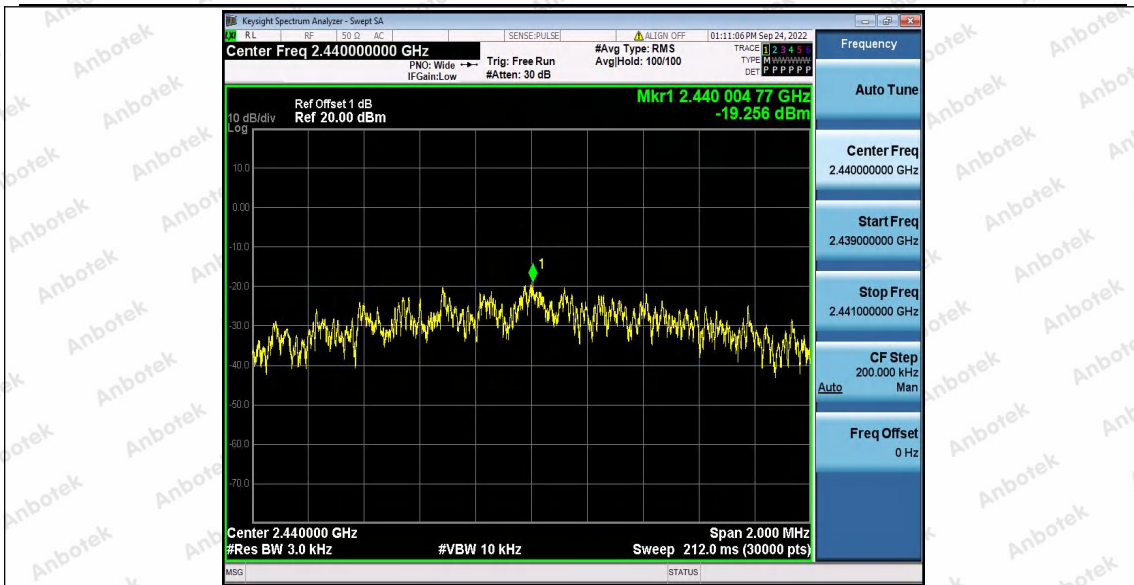
BLE_2M_Ant1_2440

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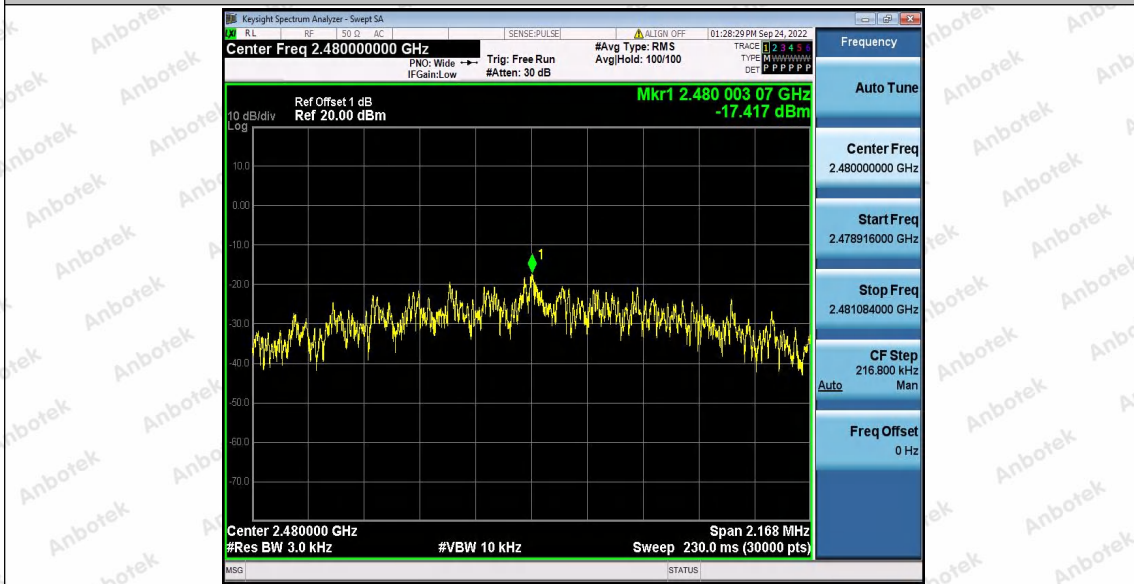
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BLE_2M_Ant1_2480



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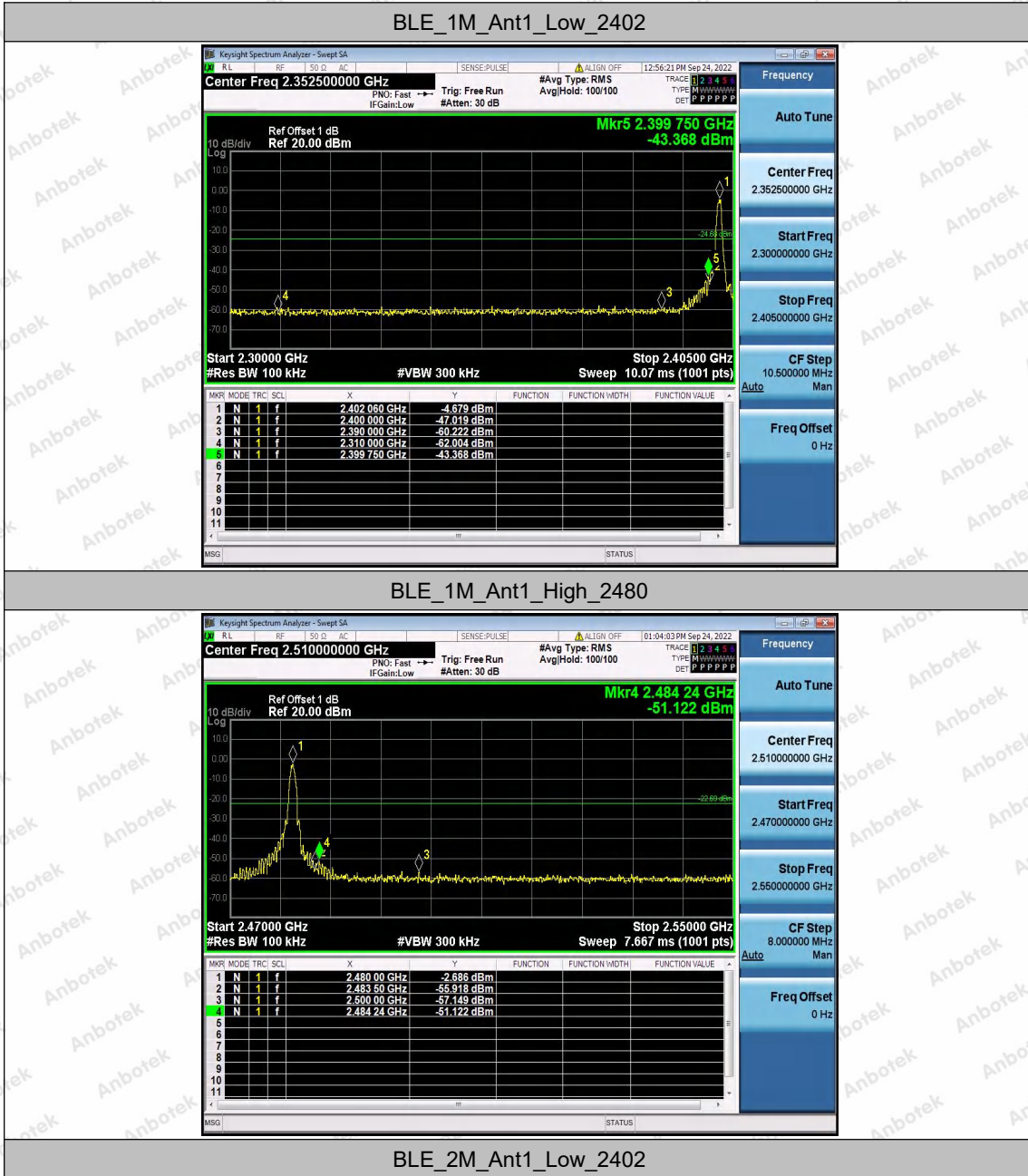
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-4.68	-43.37	≤-24.68	PASS
		High	2480	-2.69	-51.12	≤-22.69	PASS
BLE_2M	Ant1	Low	2402	-4.87	-34.8	≤-24.87	PASS
		High	2480	-3.03	-50.85	≤-23.03	PASS



Test Graphs

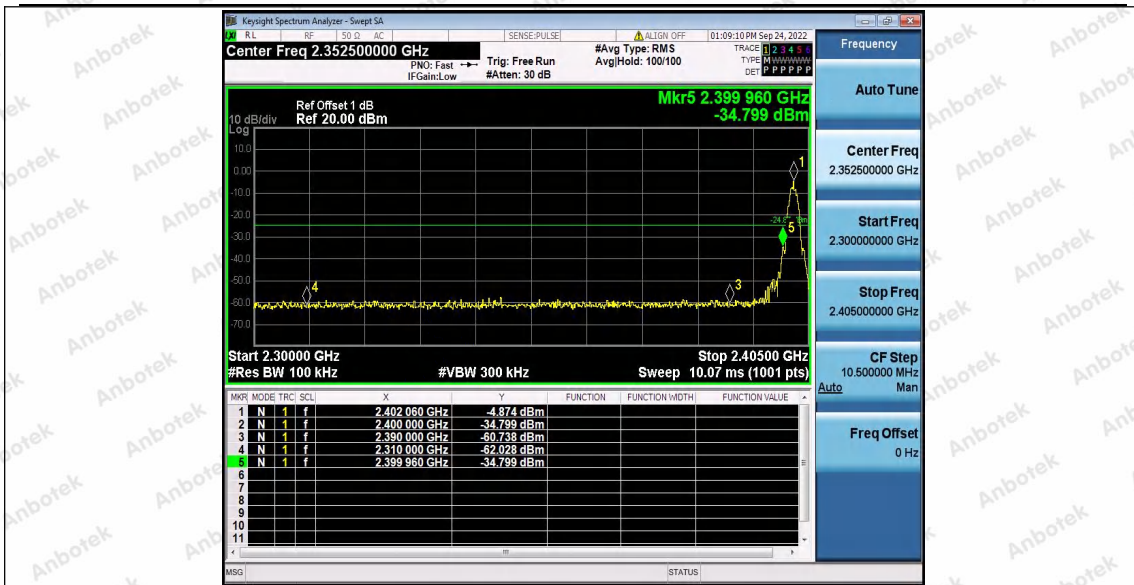


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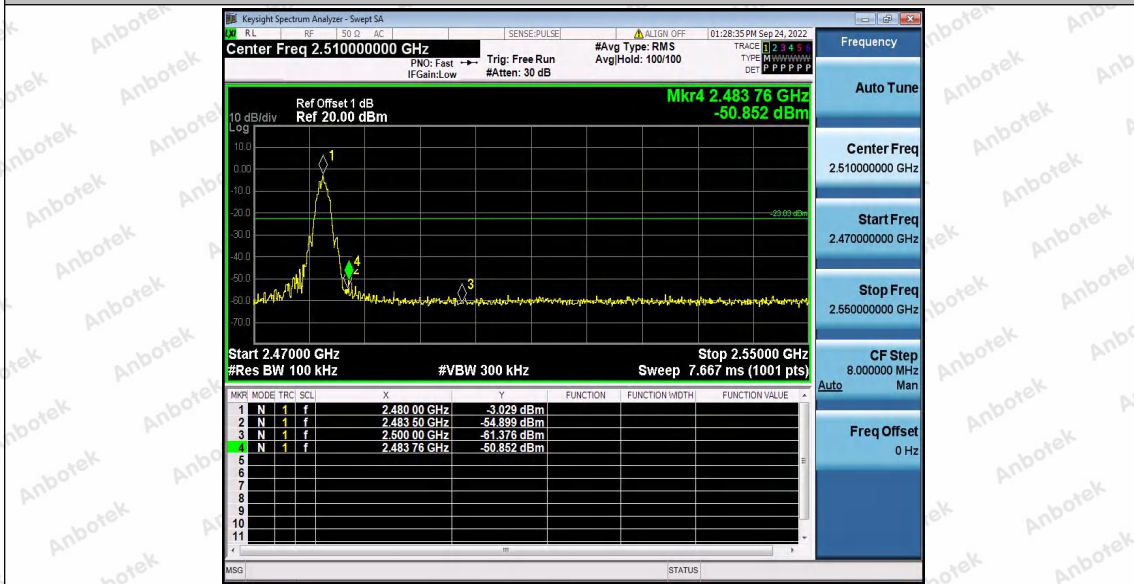
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BLE_2M_Ant1_High_2480



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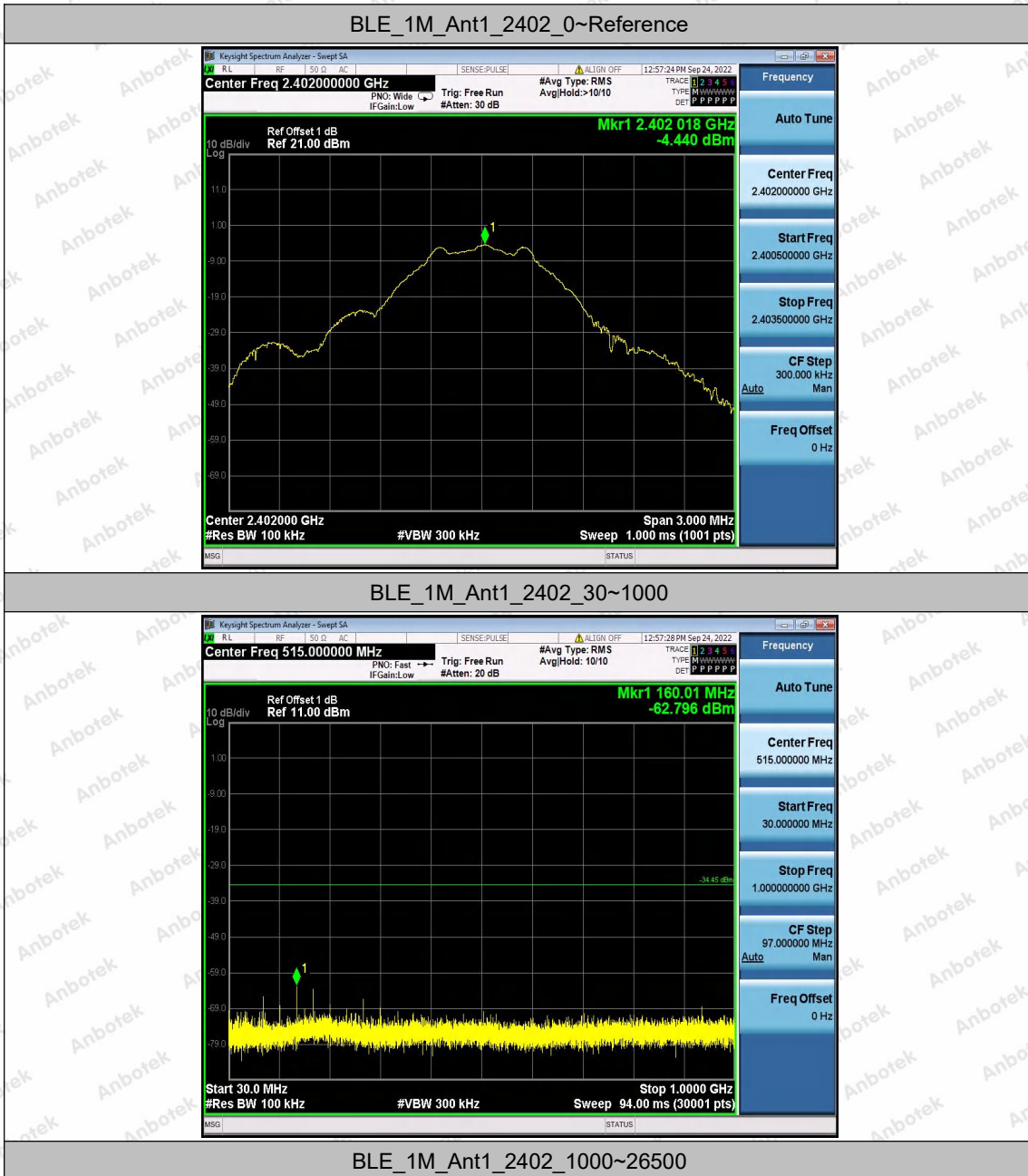
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-4.45	-4.45	---	PASS
			30~1000	-4.45	-62.8	≤-34.45	PASS
			1000~26500	-4.45	-36.35	≤-34.45	PASS
		2440	Reference	-3.73	-3.73	---	PASS
			30~1000	-3.73	-61.5	≤-33.73	PASS
			1000~26500	-3.73	-35.19	≤-33.73	PASS
		2480	Reference	-2.65	-2.65	---	PASS
			30~1000	-2.65	-61.92	≤-32.65	PASS
			1000~26500	-2.65	-34.05	≤-32.65	PASS
BLE_2M	Ant1	2402	Reference	-5.04	-5.04	---	PASS
			30~1000	-5.04	-63.1	≤-35.04	PASS
			1000~26500	-5.04	-40.68	≤-35.04	PASS
		2440	Reference	-3.98	-3.98	---	PASS
			30~1000	-3.98	-61.92	≤-33.98	PASS
			1000~26500	-3.98	-36.49	≤-33.98	PASS
		2480	Reference	-4.07	-4.07	---	PASS
			30~1000	-4.07	-63.09	≤-34.07	PASS
			1000~26500	-4.07	-37.05	≤-34.07	PASS



Test Graphs

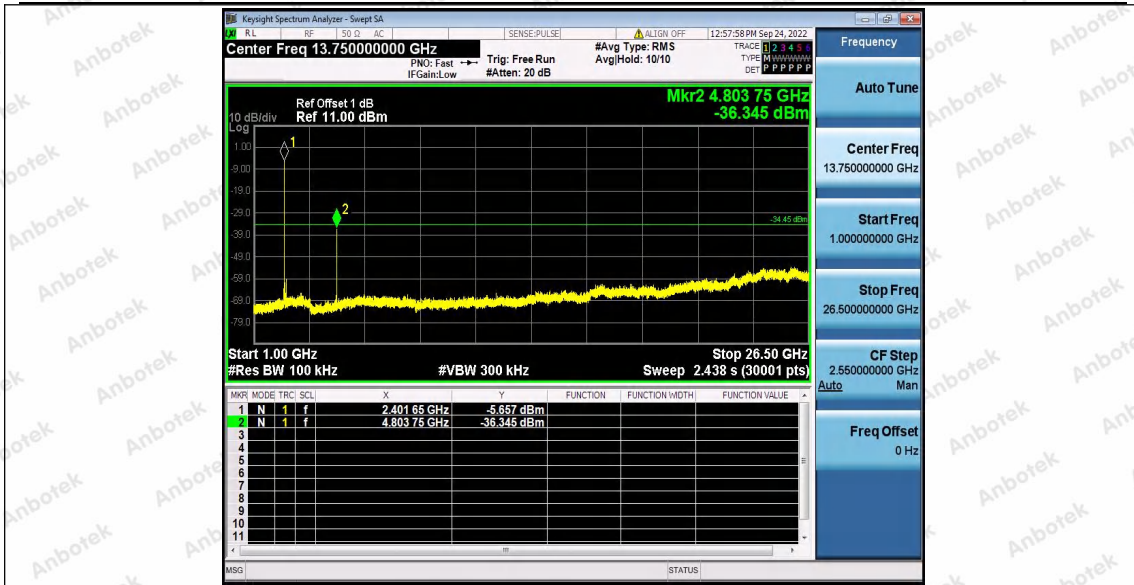


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BLE_1M_Ant1_2440_0~Reference



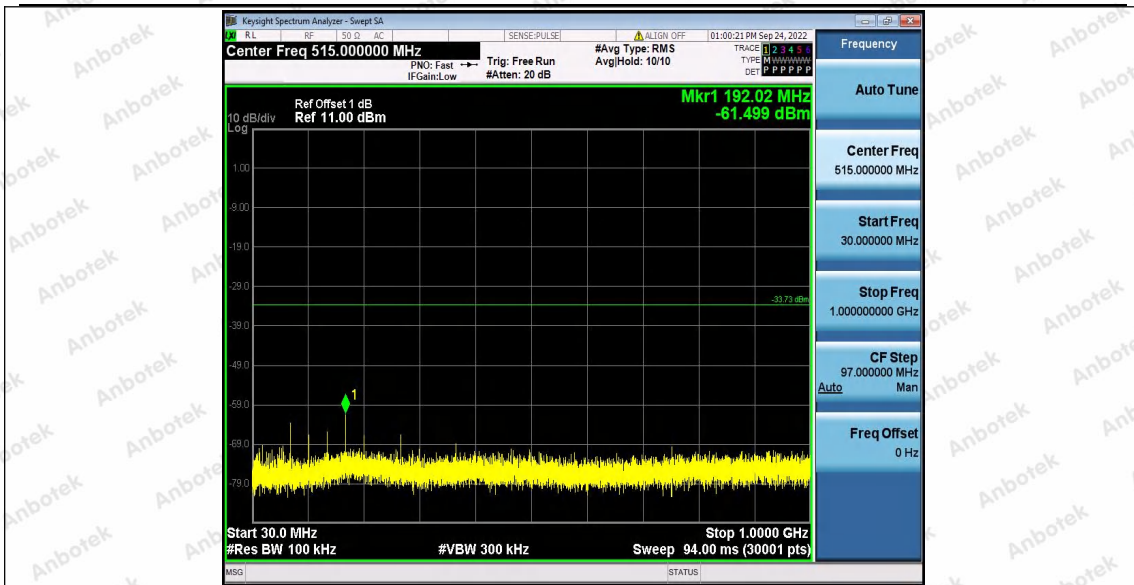
BLE_1M_Ant1_2440_30~1000

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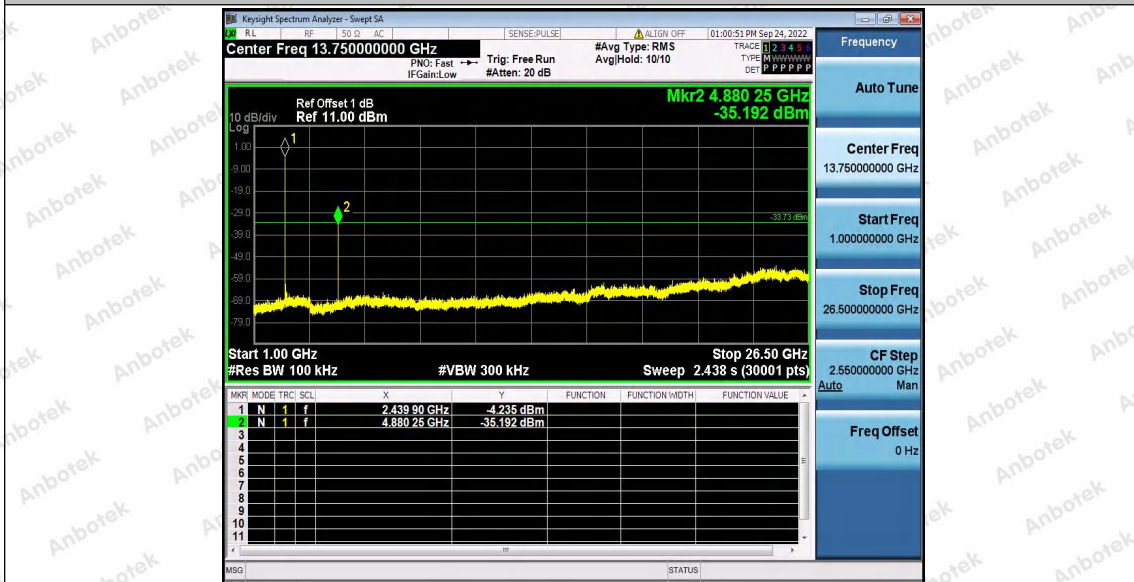
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

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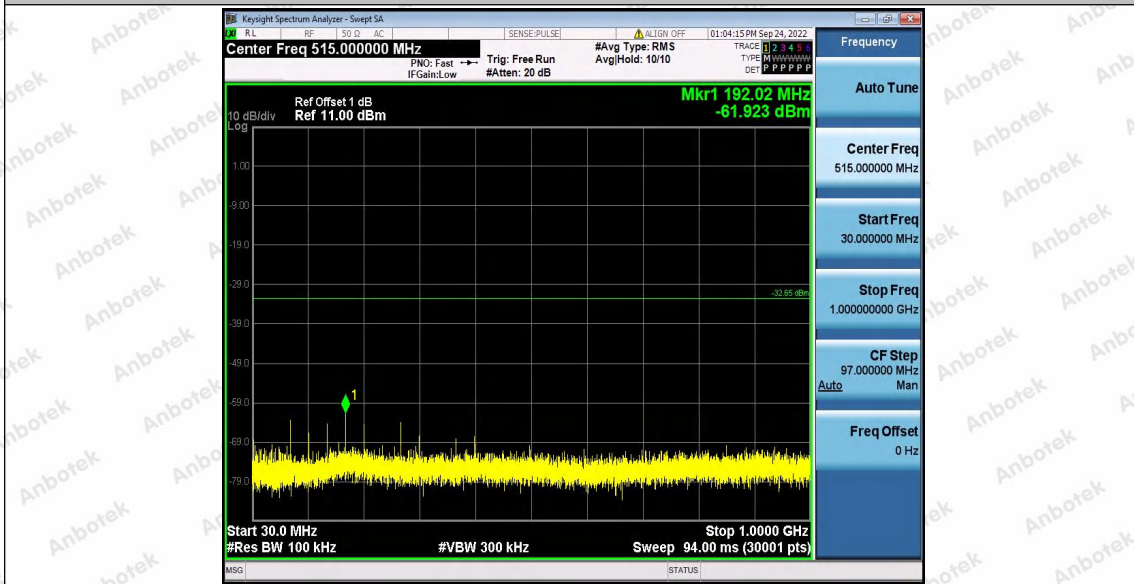
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BLE_1M_Ant1_2480_30~1000



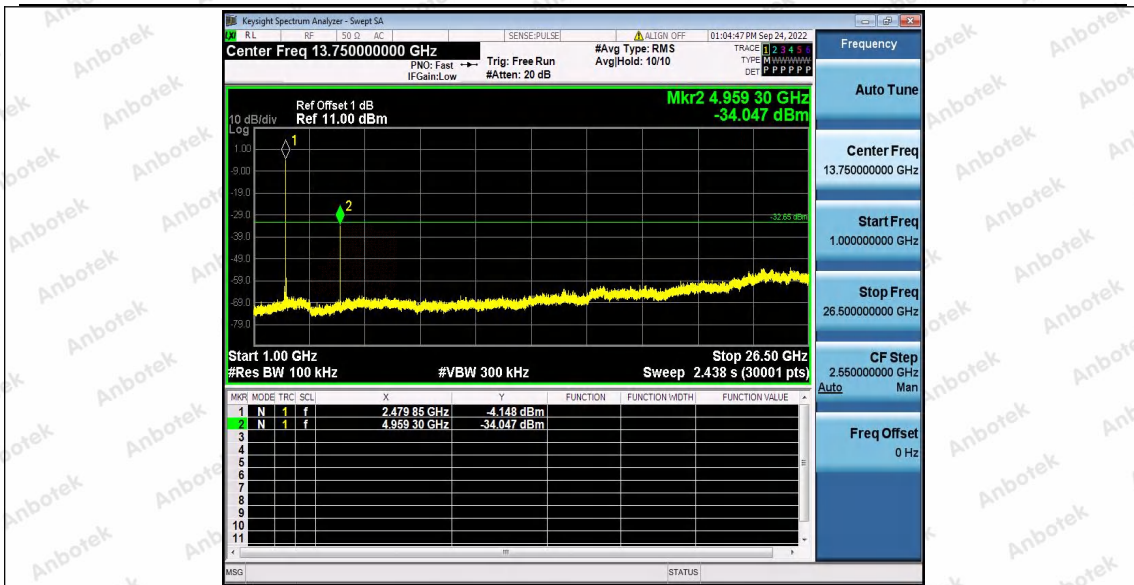
BLE_1M_Ant1_2480_1000~26500

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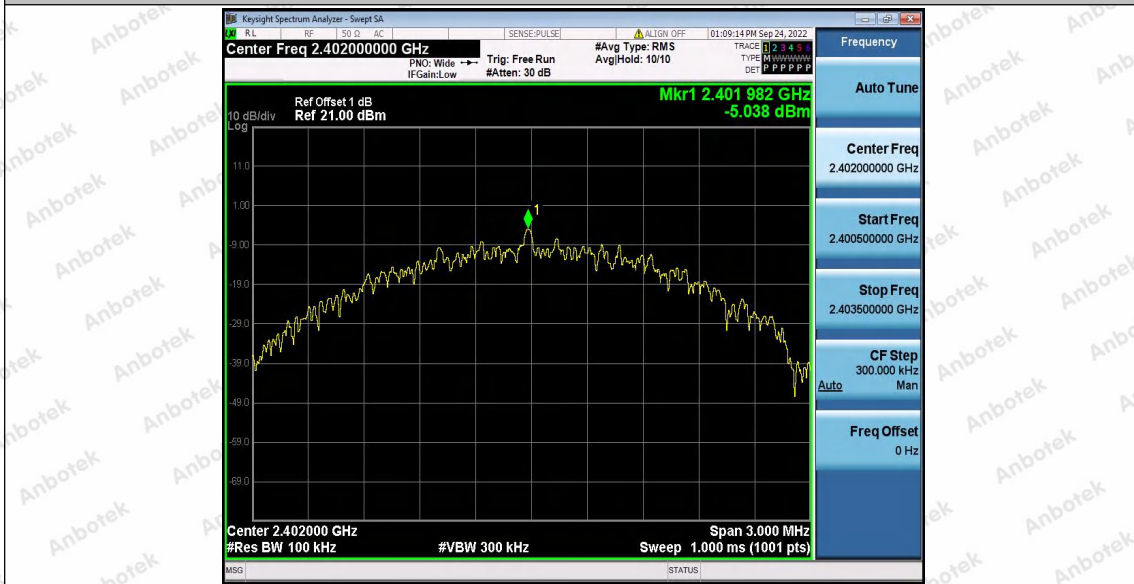
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BLE_2M_Ant1_2402_0~Reference



BLE_2M_Ant1_2402_30~100

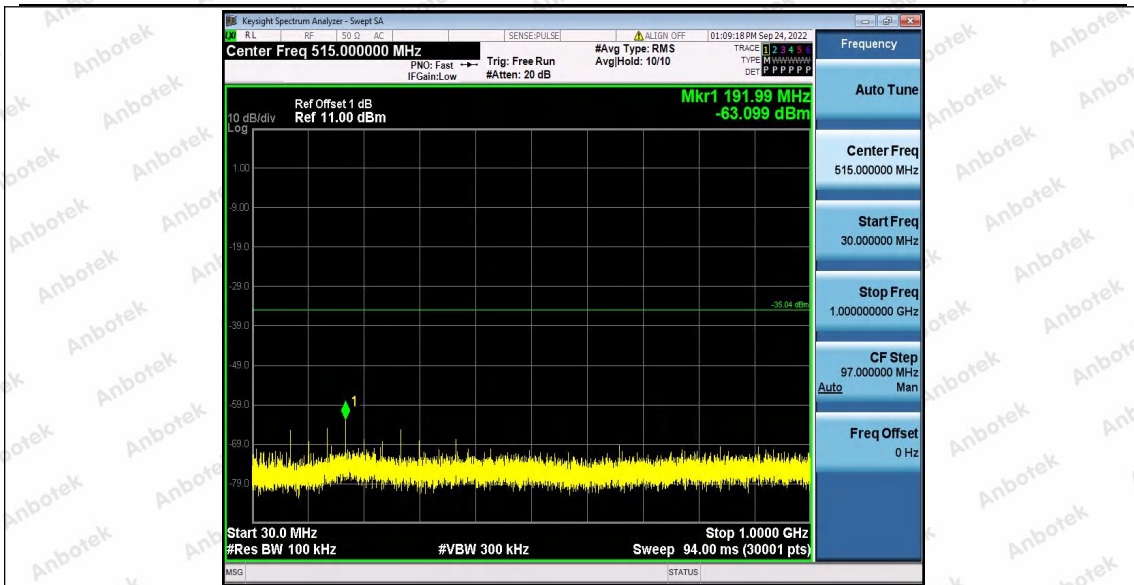
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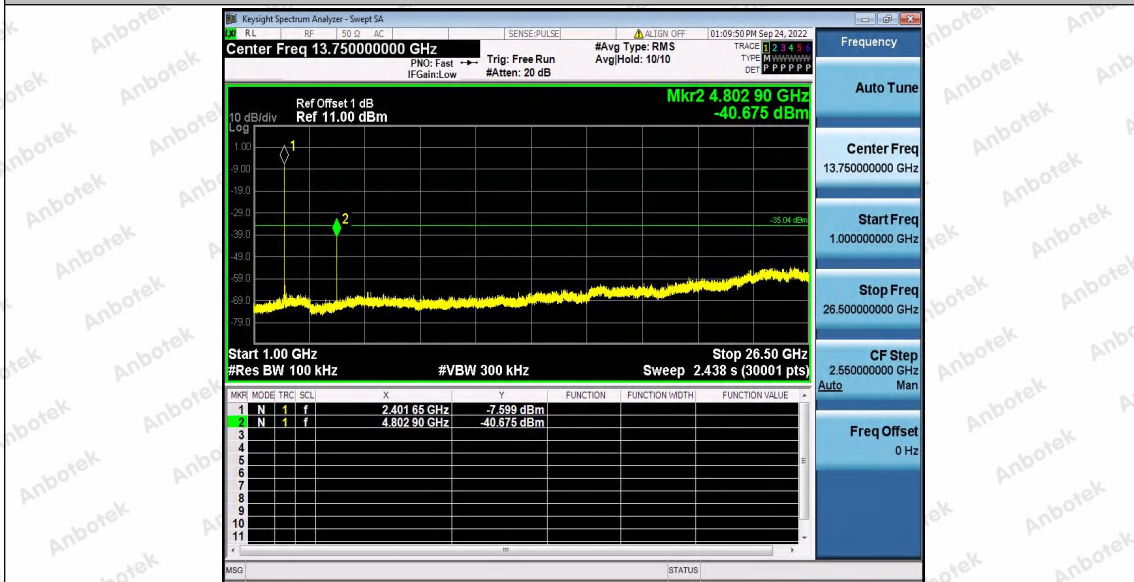


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BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

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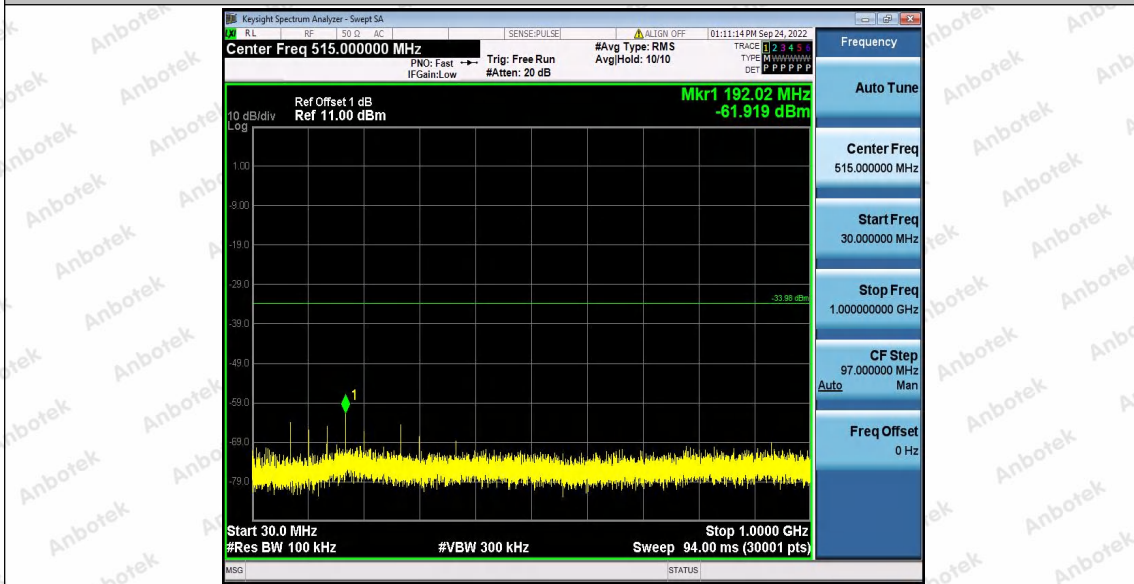
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BLE_2M_Ant1_2440_30~1000



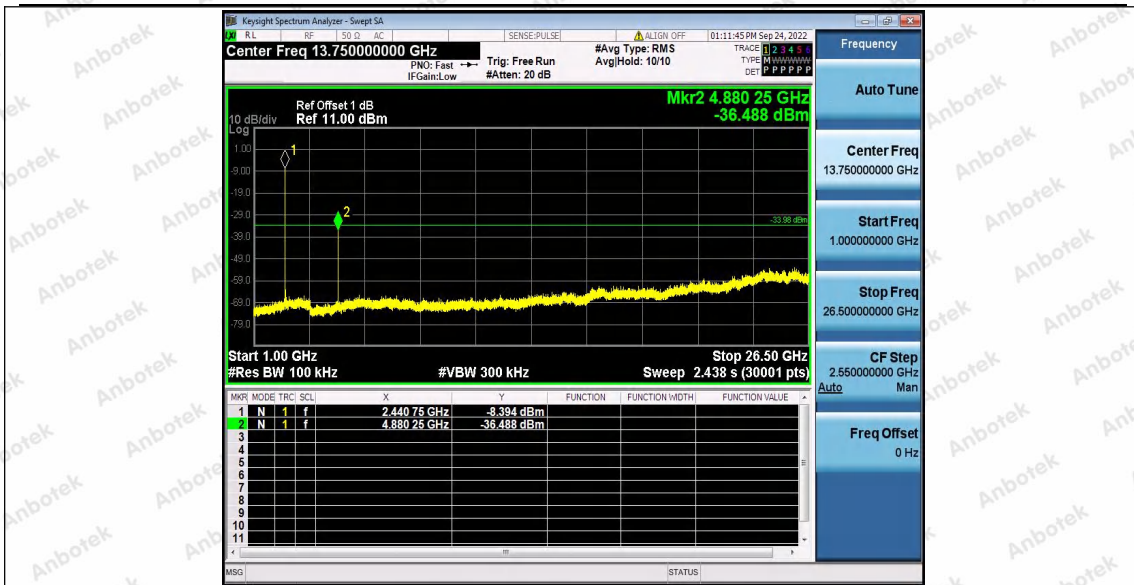
BLE_2M_Ant1_2440_1000~26500

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BLE_2M_Ant1_2480_0~Reference



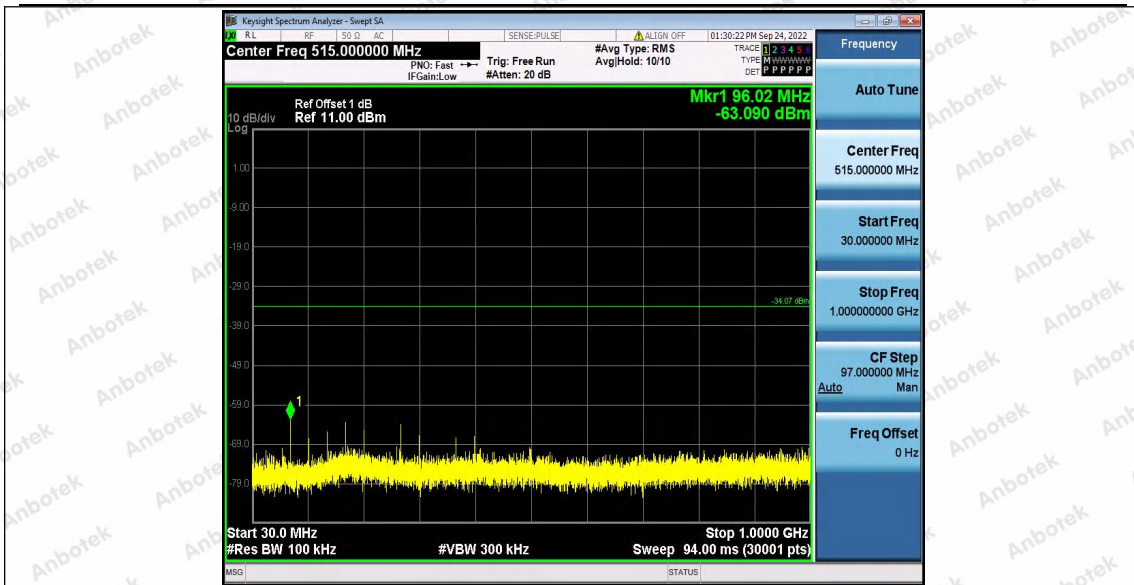
BLE_2M_Ant1_2480_30~1000

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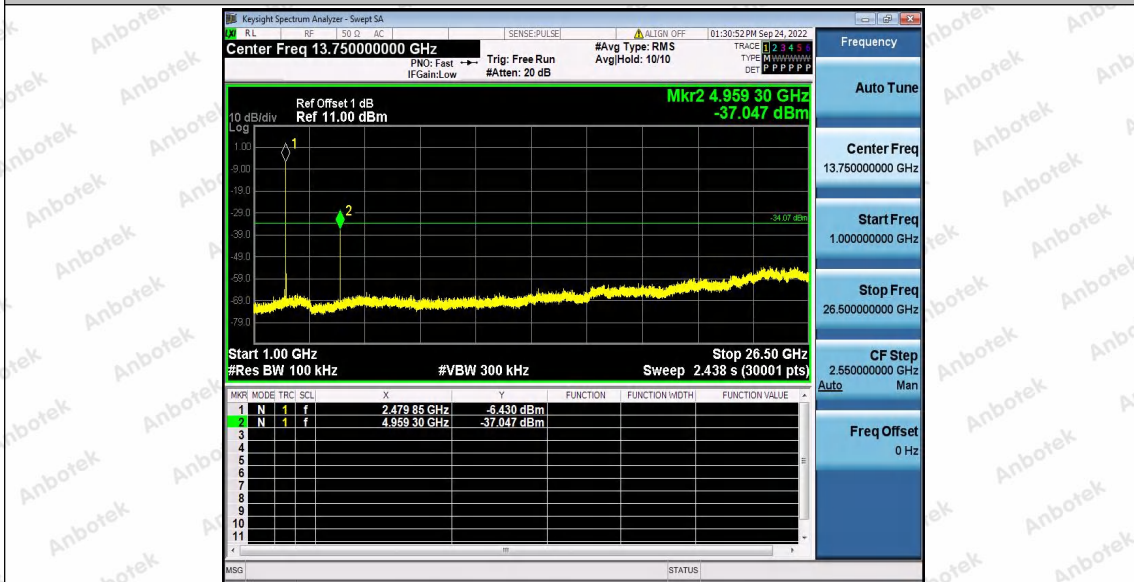
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BLE_2M_Ant1_2480_1000~26500



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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	0.41	0.62	66.13	1.80
		2440	0.41	0.62	66.13	1.80
		2480	0.41	0.62	66.13	1.80
BLE_2M	Ant1	2402	1.11	1.88	59.04	2.29
		2440	1.11	1.87	59.36	2.27
		2480	1.11	1.88	59.04	2.29

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Test Graphs

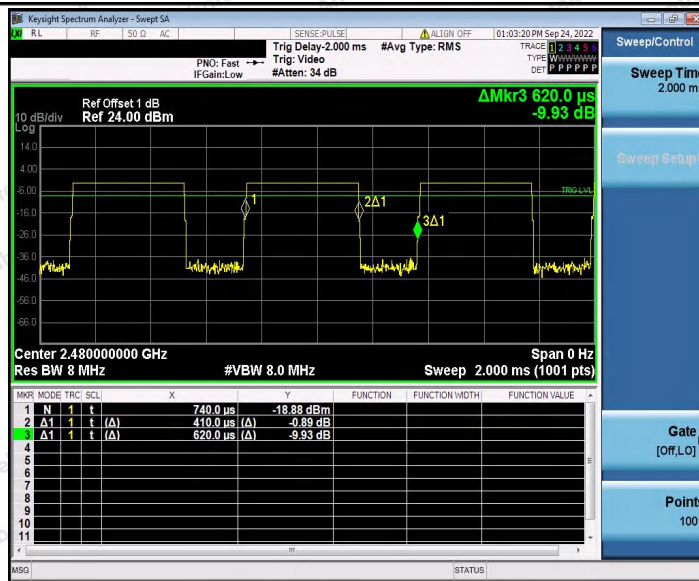


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BLE_2M_Ant1_2402



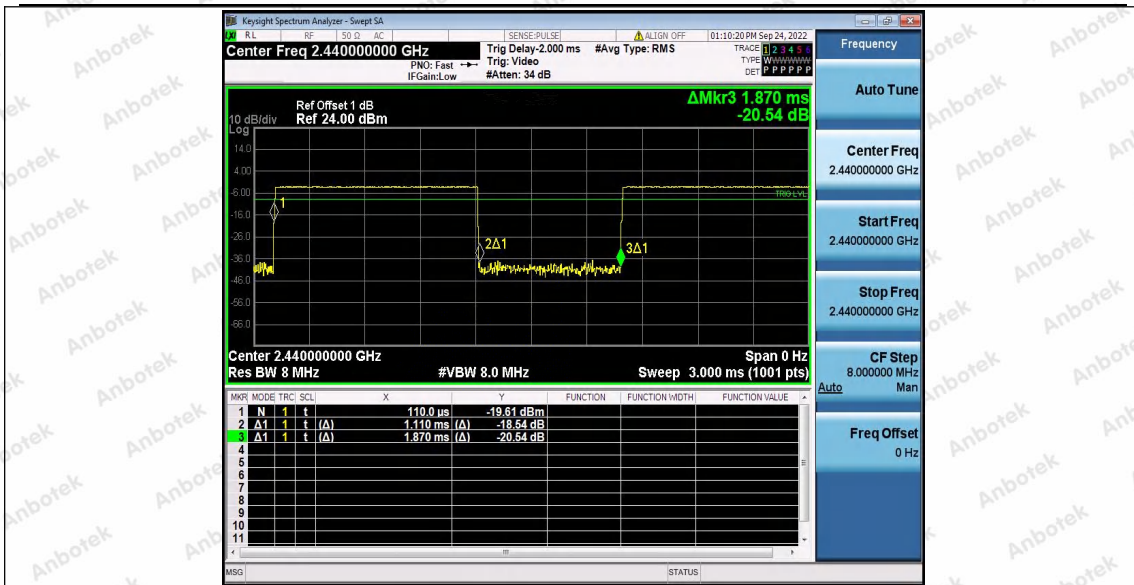
BLE_2M_Ant1_2440

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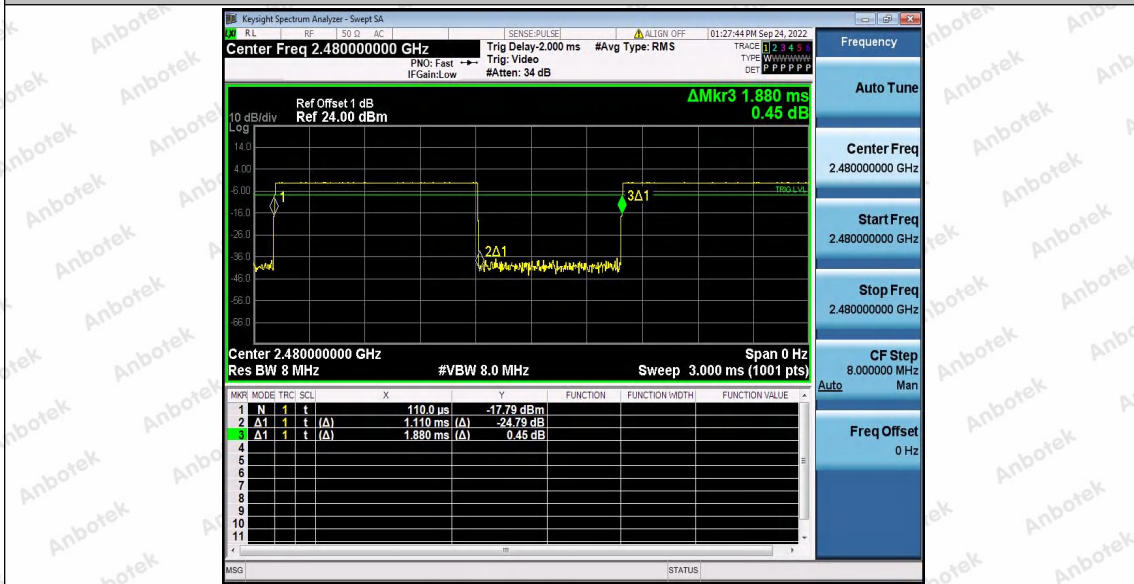
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BLE_2M_Ant1_2480



---End---

