

Appendix Test Data

Report No.:	18220WC30182601	Test Sample No.:	1-2-2
Start Test Date:	2023.08.29	Finish Test Date:	2023.09.07
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.3°C	Relative Humidity:	48%
Pressure:	102kPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.812	2401.640	2402.452	0.5	PASS
		2440	0.756	2439.644	2440.400	0.5	PASS
		2480	0.720	2479.644	2480.364	0.5	PASS

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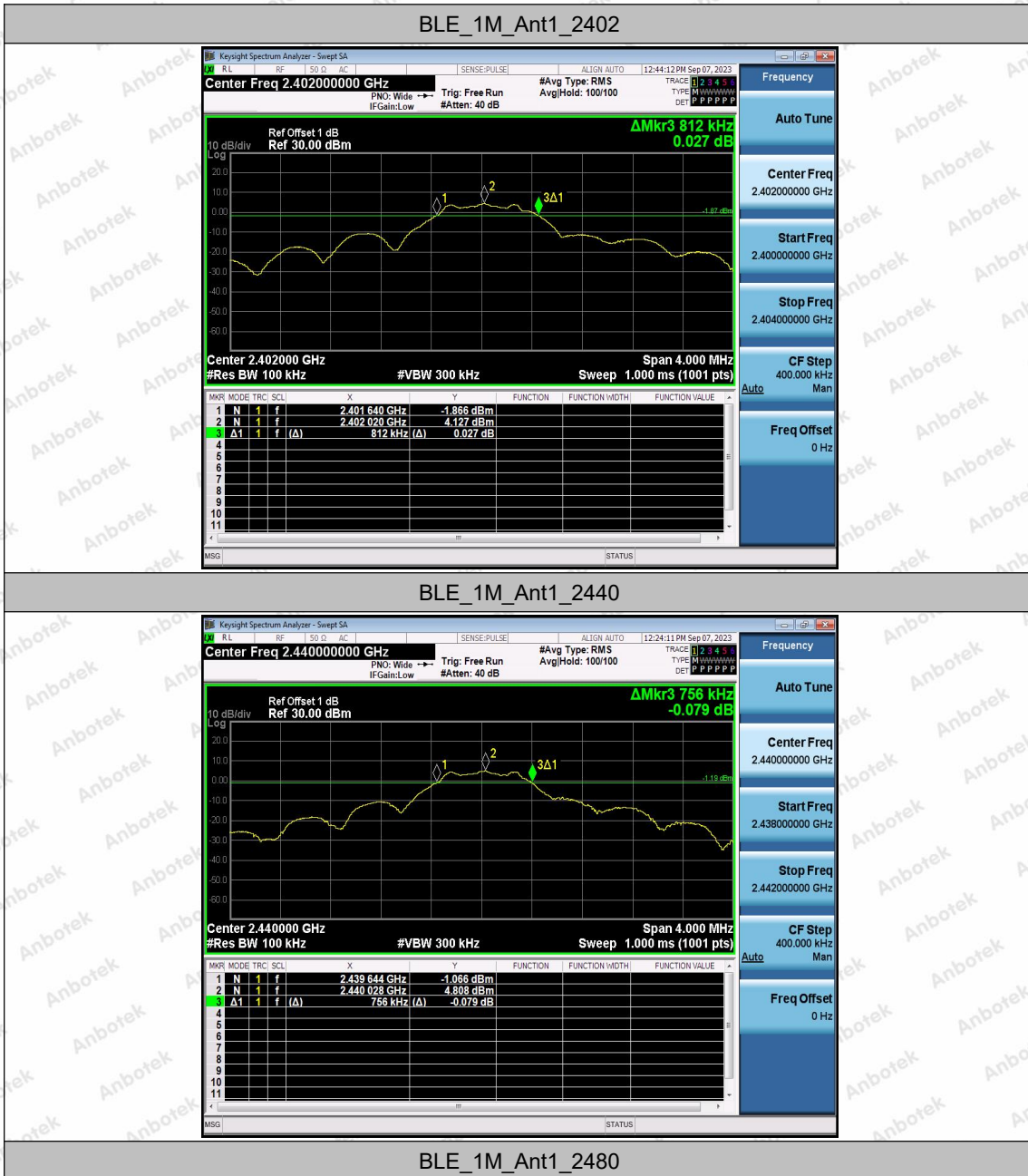
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Test Graphs

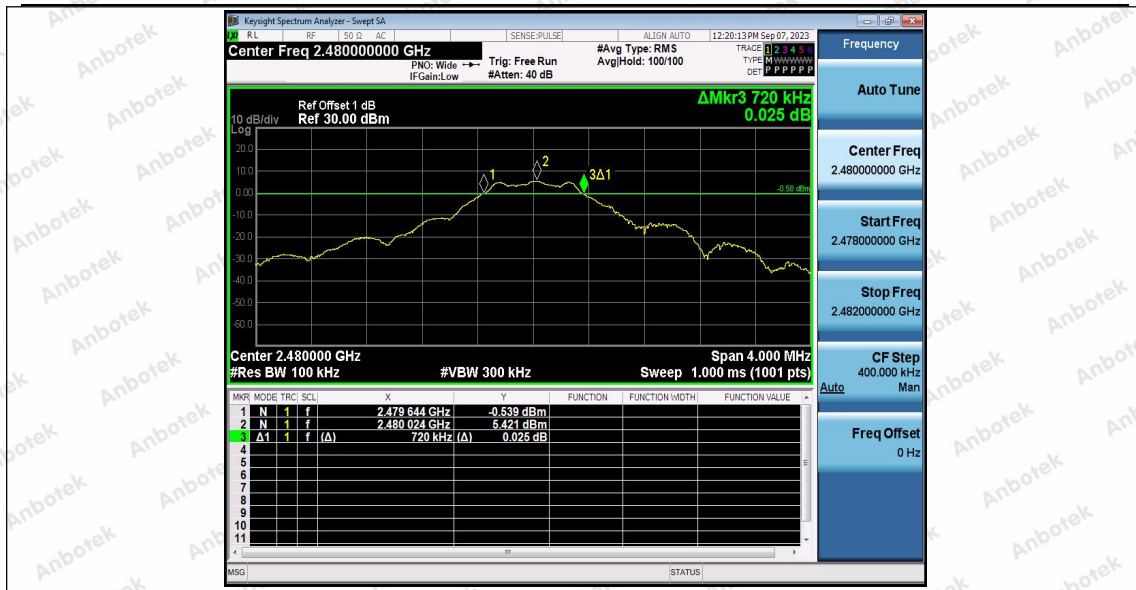


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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.9336	2401.0605	2402.9941
		2440	1.6174	2439.2129	2440.8303
		2480	1.2255	2479.4075	2480.6330

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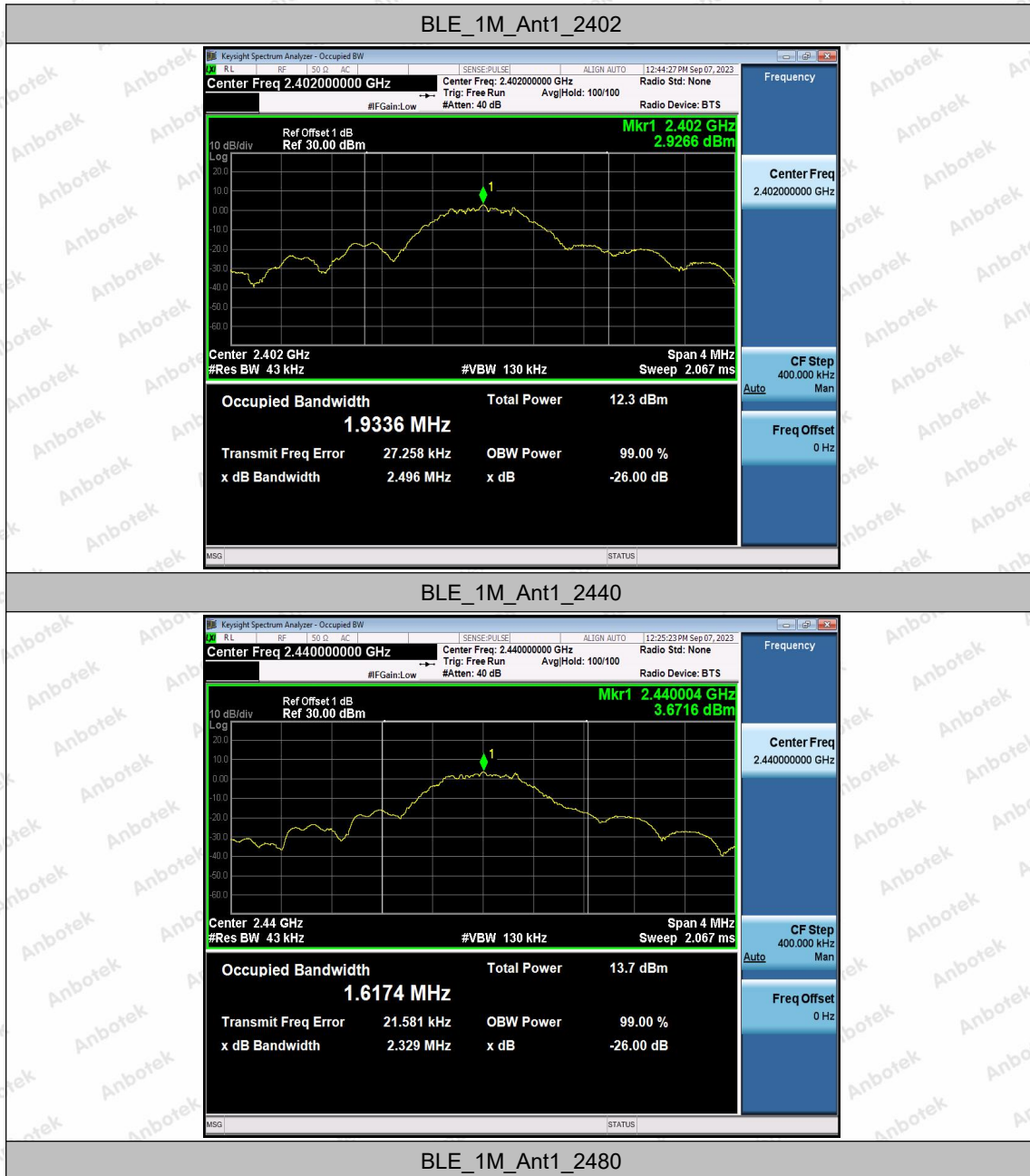
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Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	4.49	≤30	PASS
		2440	5.16	≤30	PASS
		2480	5.76	≤30	PASS

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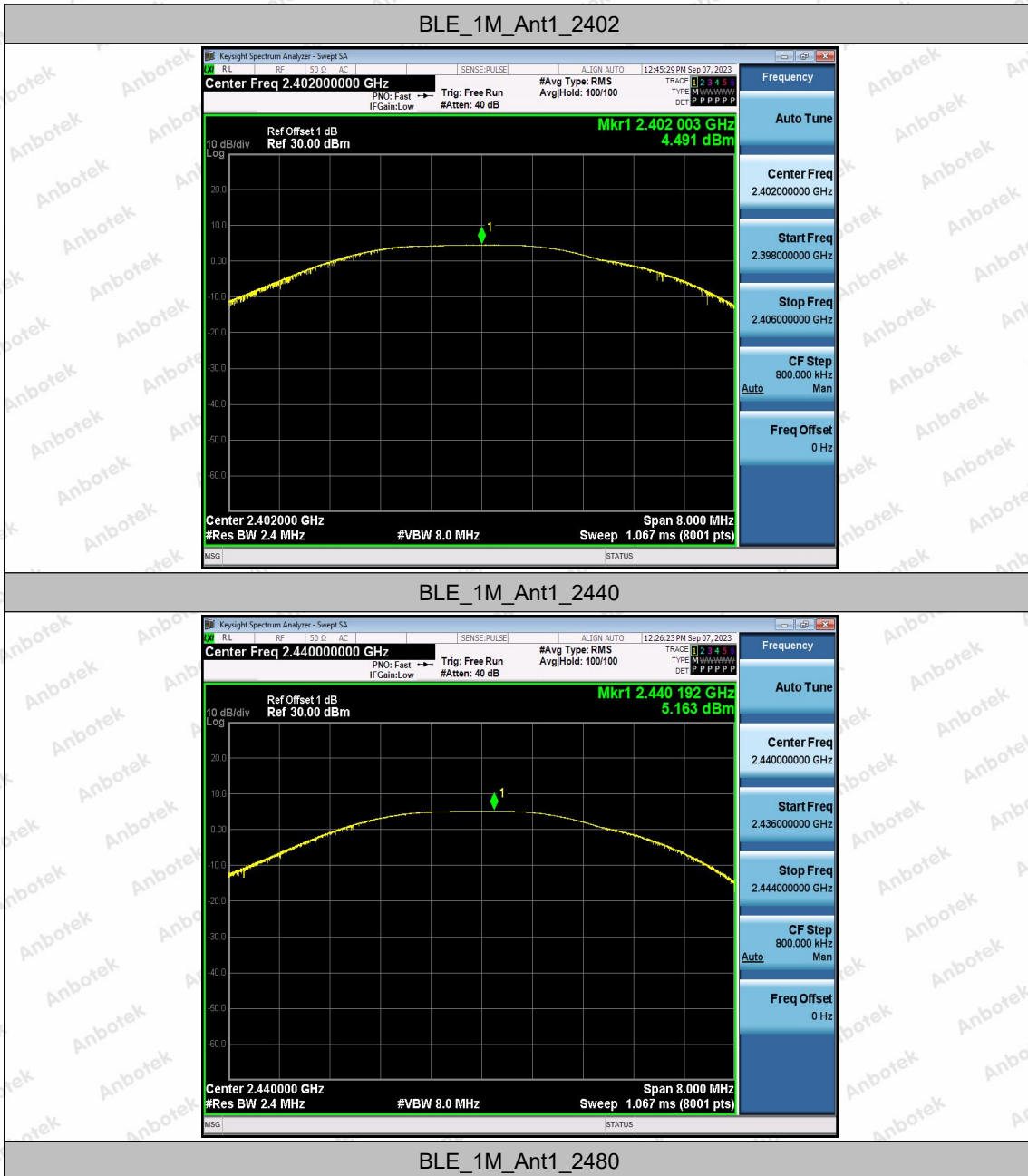
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Test Graphs Peak



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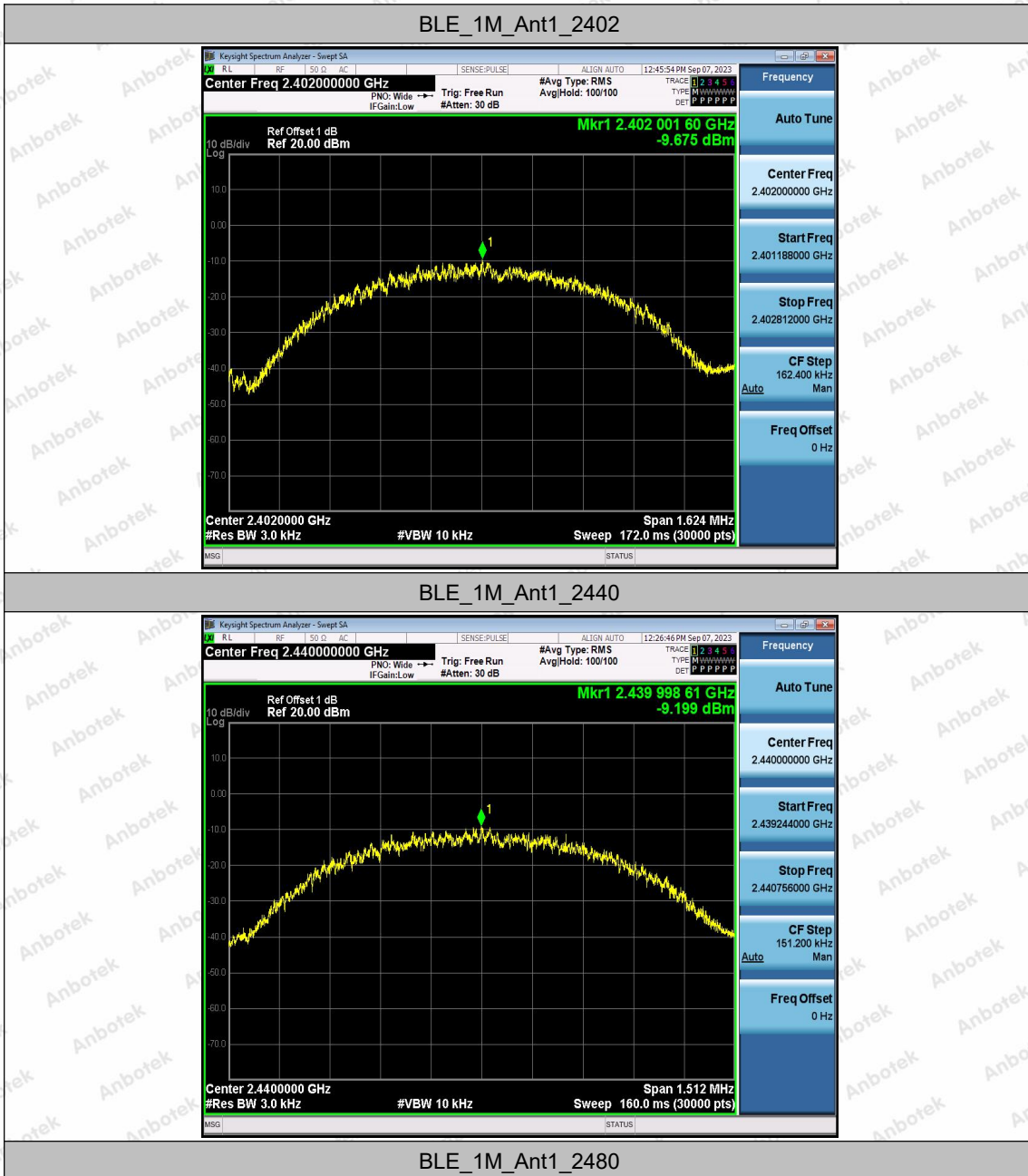
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-9.68	≤8.00	PASS
		2440	-9.20	≤8.00	PASS
		2480	-8.62	≤8.00	PASS



Test Graphs

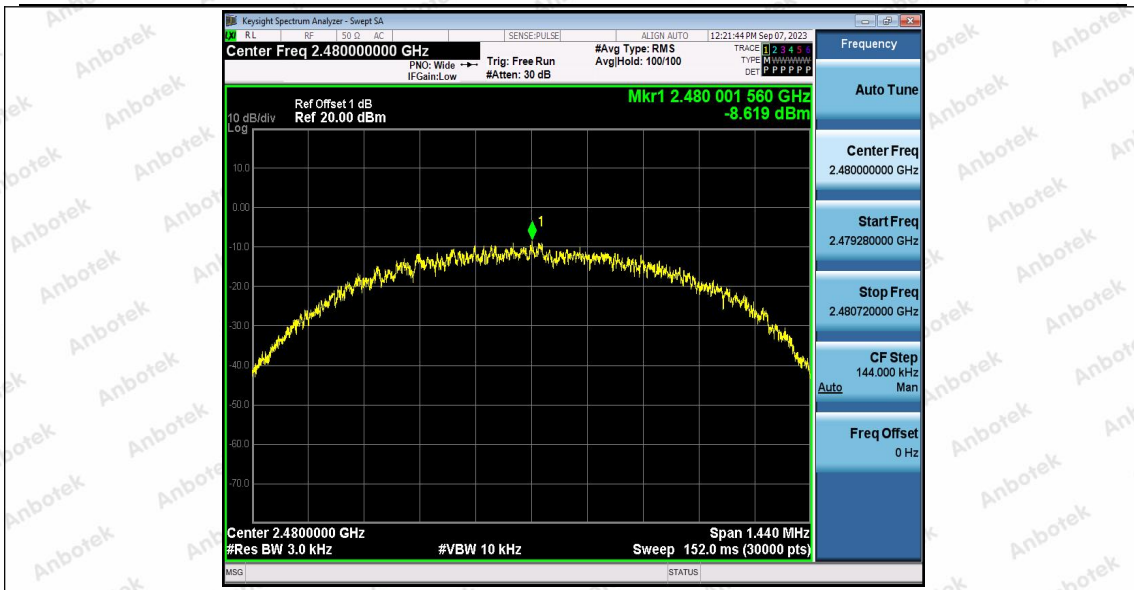


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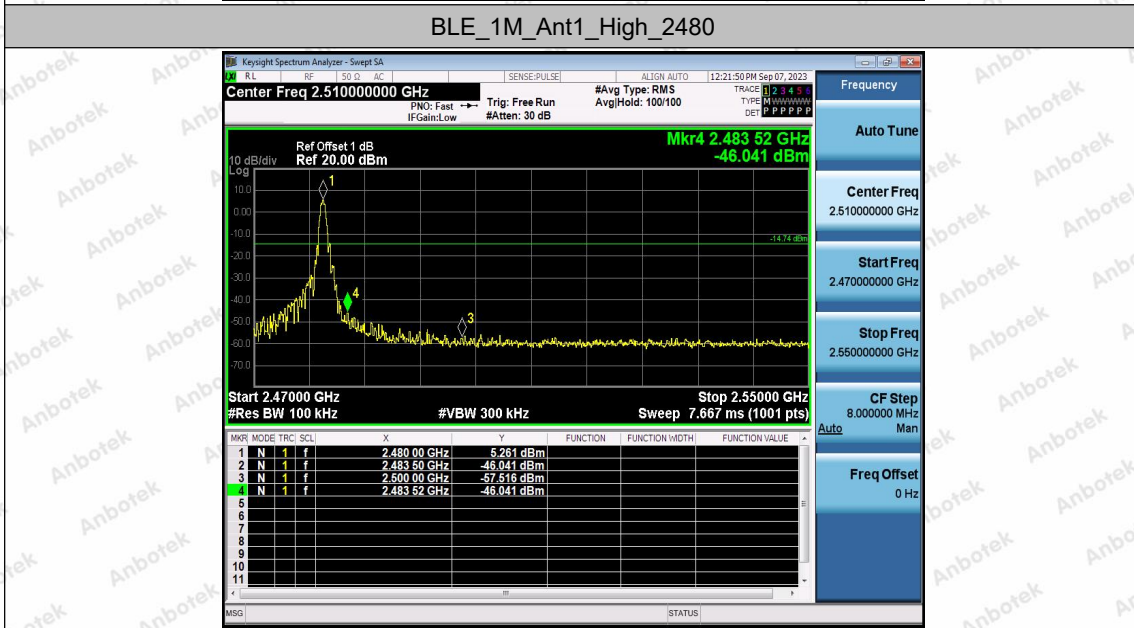
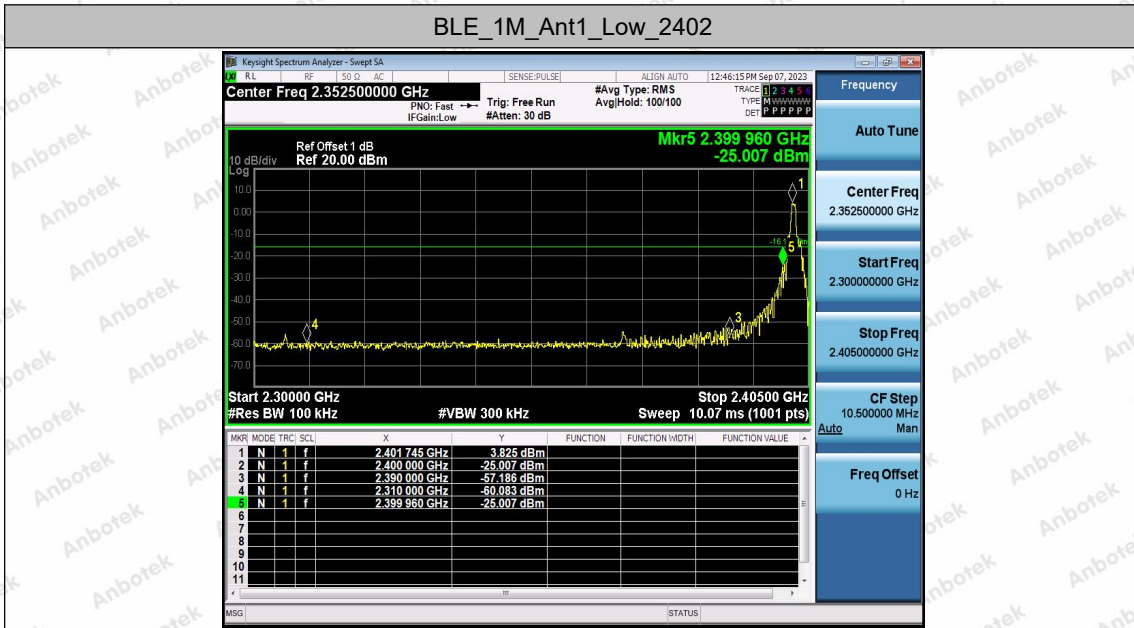
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	3.83	-25.01	≤-16.18	PASS
		High	2480	5.26	-46.04	≤-14.74	PASS



Test Graphs



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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	4.17	4.17	---	PASS
			30~1000	4.17	-63.27	≤-15.83	PASS
			1000~26500	4.17	-22.19	≤-15.83	PASS
		2440	Reference	4.84	4.84	---	PASS
			30~1000	4.84	-66.91	≤-15.16	PASS
			1000~26500	4.84	-21.86	≤-15.16	PASS
		2480	Reference	5.53	5.53	---	PASS
			30~1000	5.53	-66.21	≤-14.47	PASS
			1000~26500	5.53	-22.35	≤-14.47	PASS

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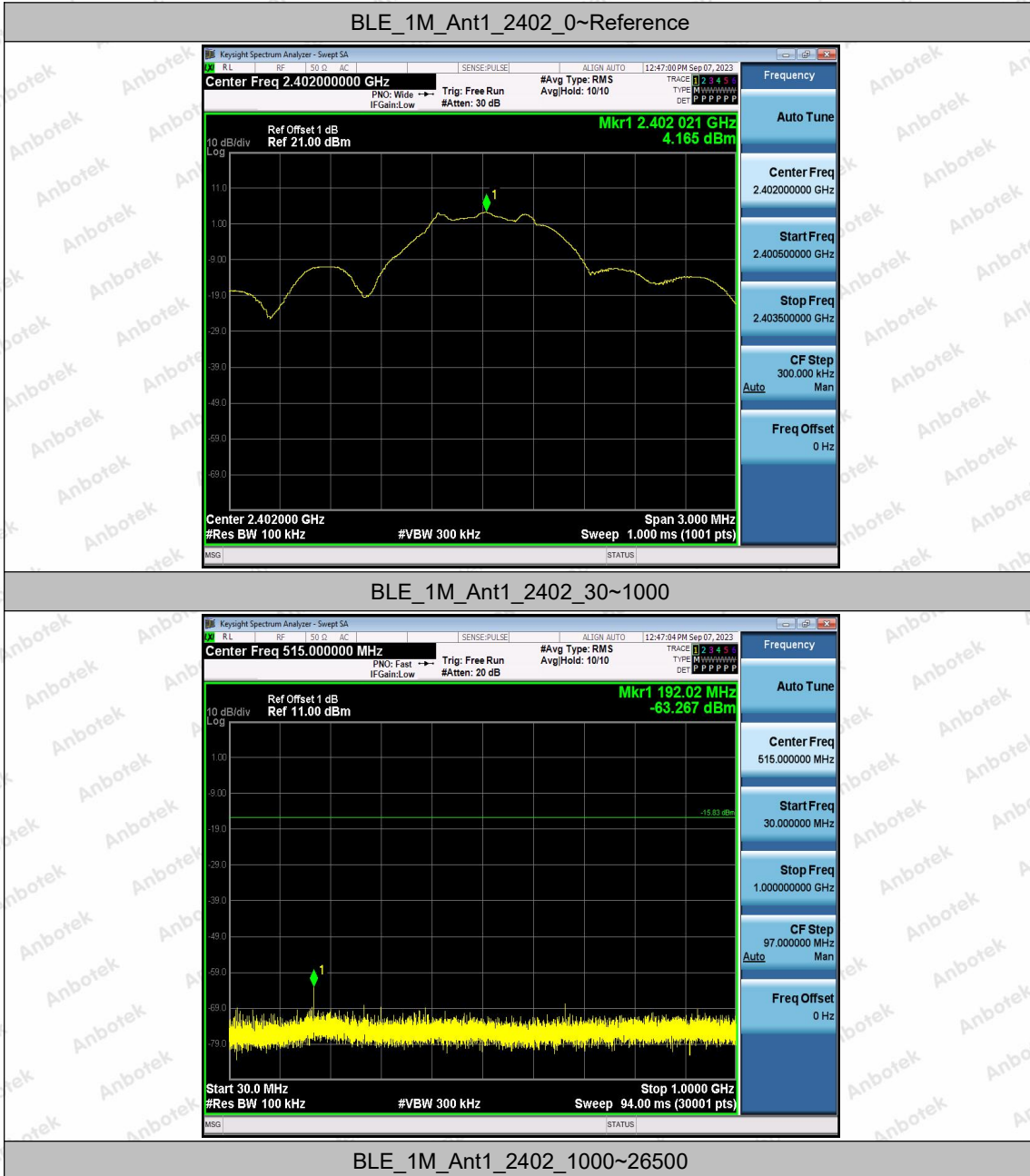
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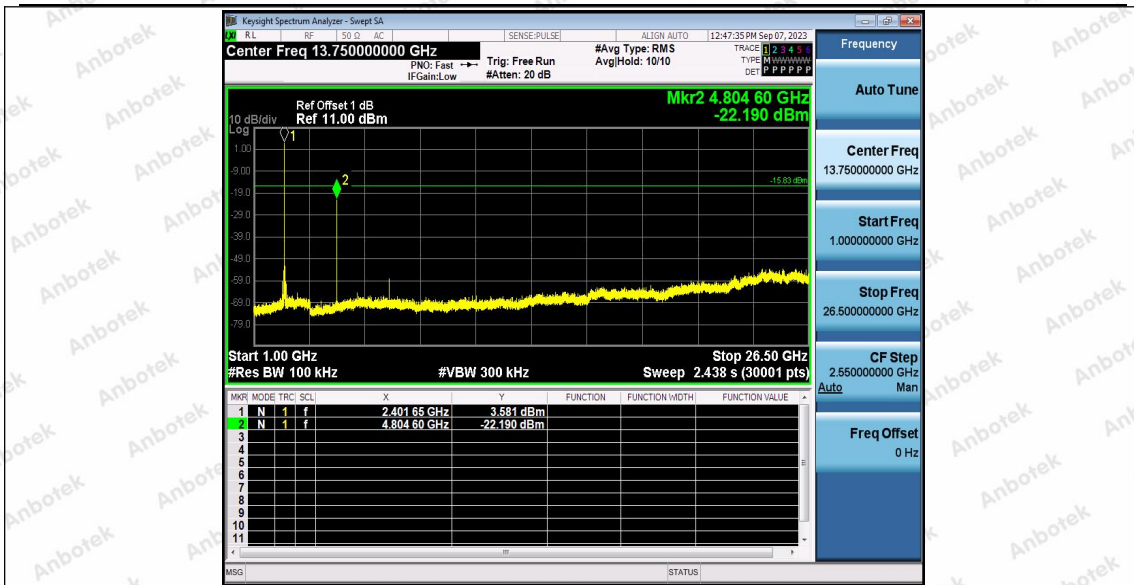


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BLE_1M_Ant1_2440_0~Reference



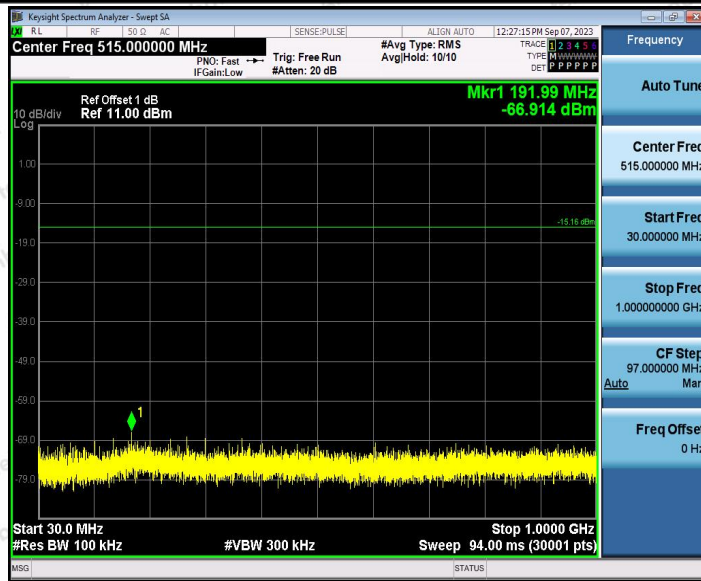
BLE_1M_Ant1_2440_30~1000

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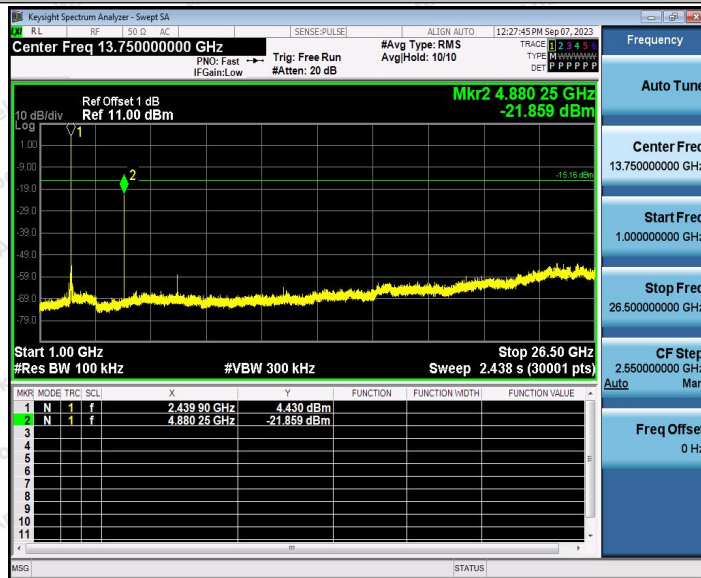
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

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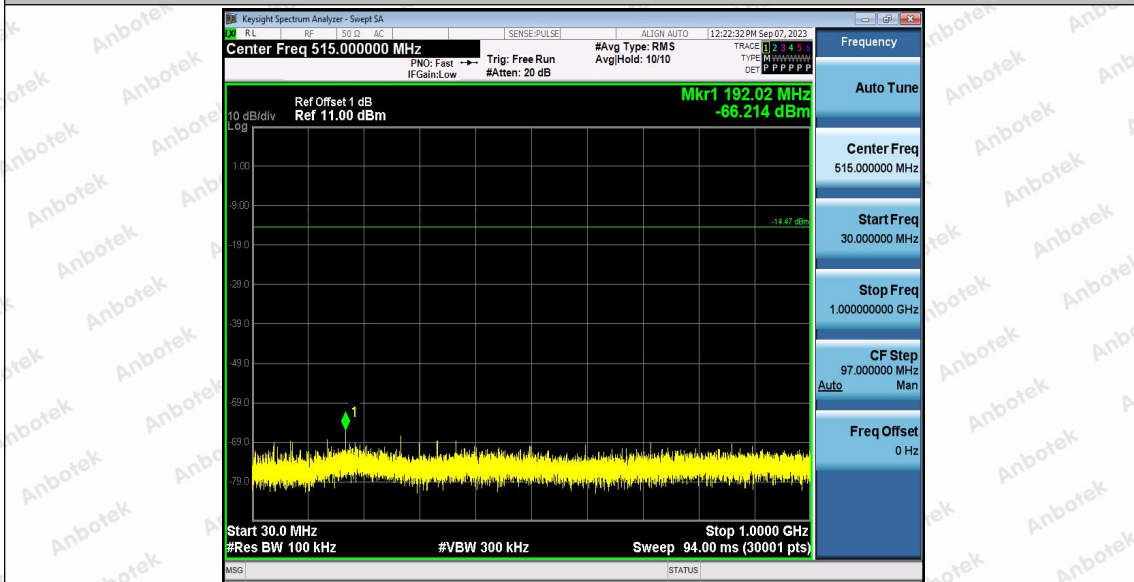
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BLE_1M_Ant1_2480_30~1000



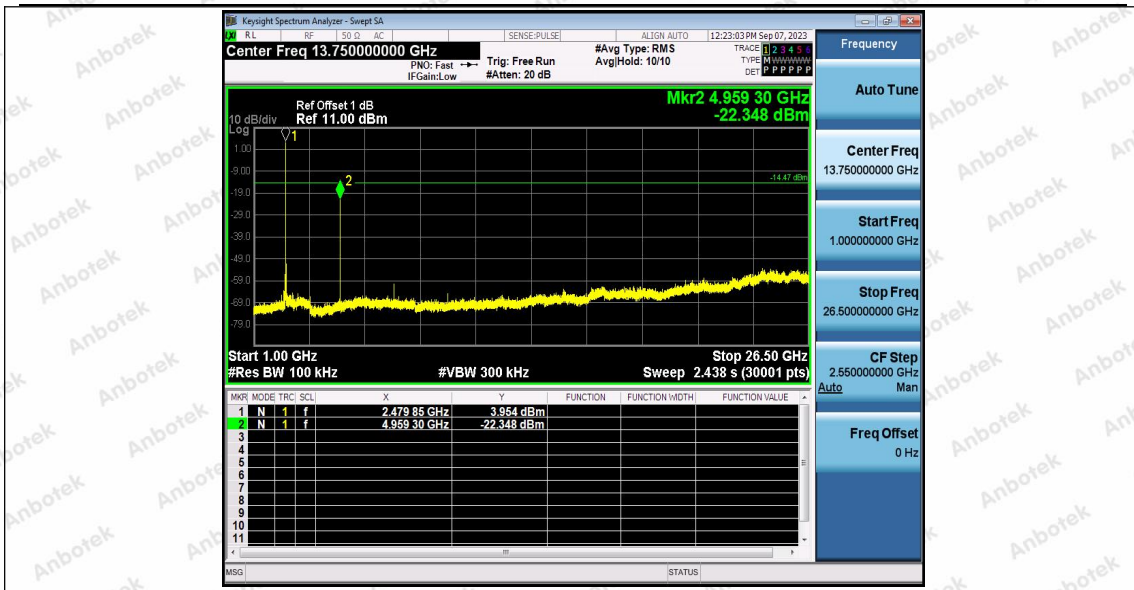
BLE_1M_Ant1_2480_1000~26500

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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

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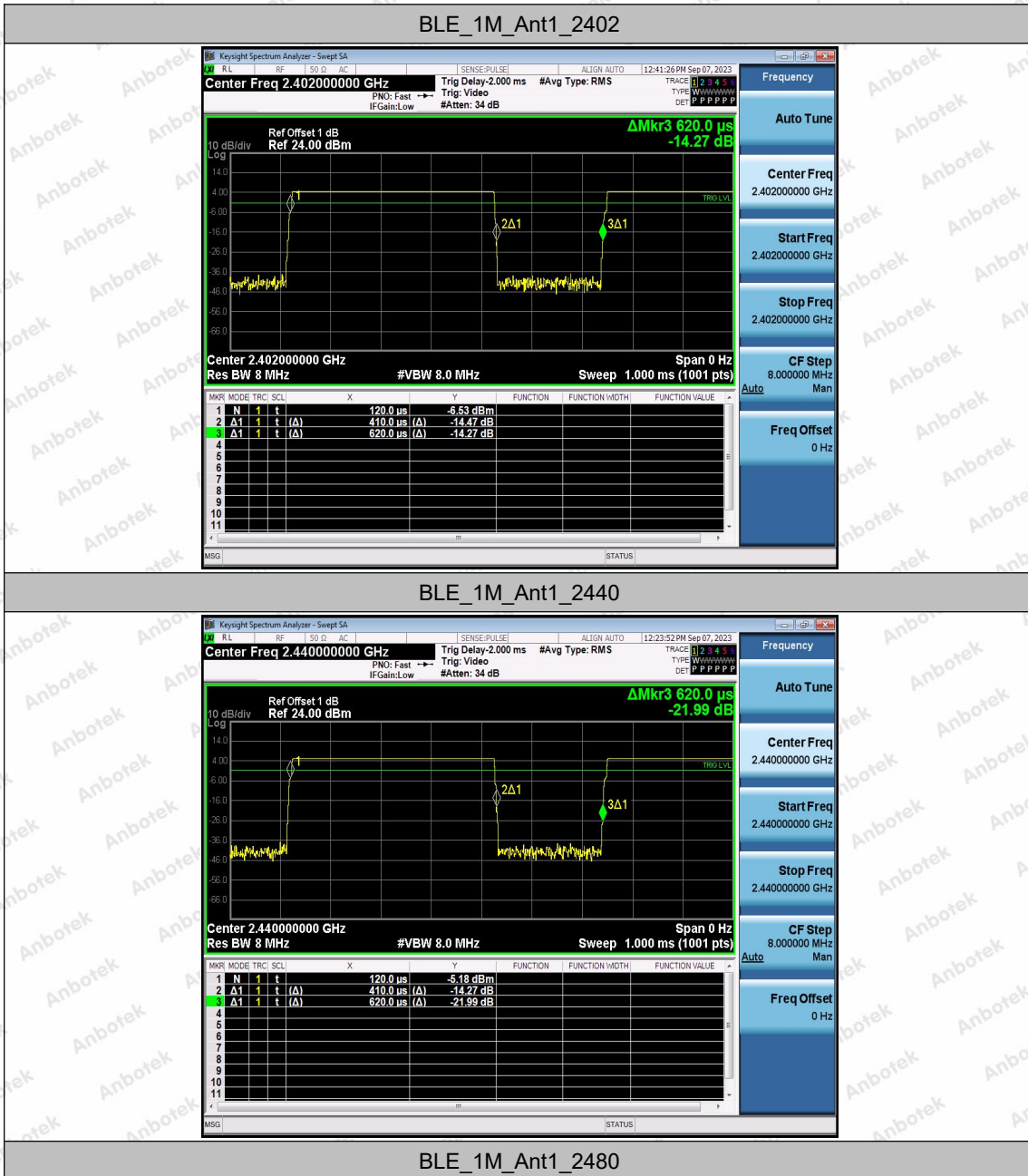
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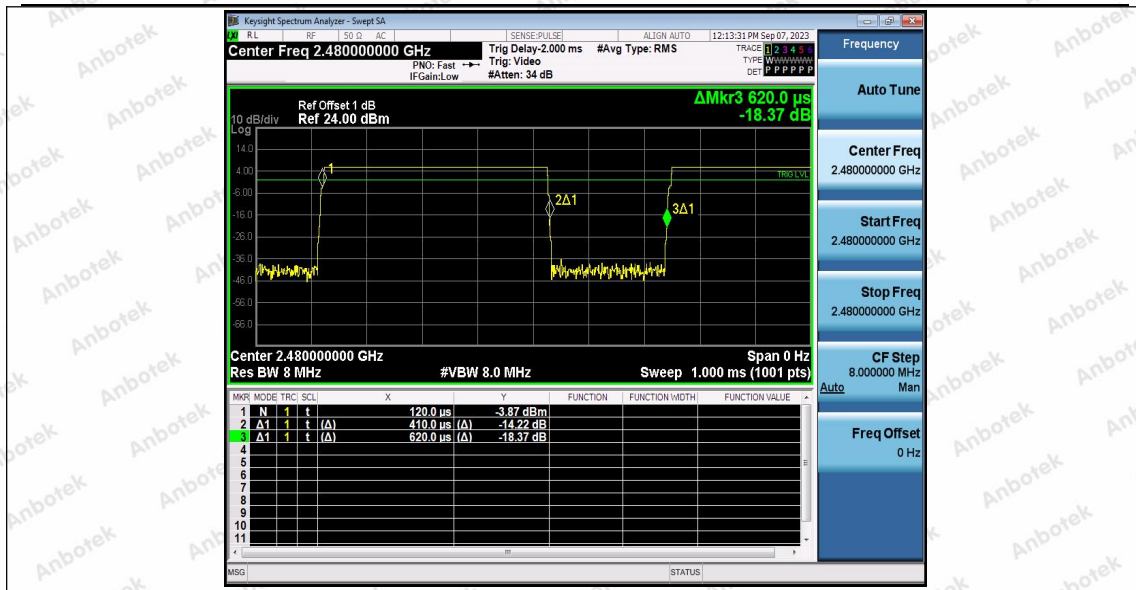
BLE_1M_Ant1_2480

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