

Appendix Test Data

Report No.:	18220WC20181101	Test Sample No.:	1-2-2
Start Test Date:	2022.8.10	Finish Test Date:	2022.8.17
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	27.3°C	Relative Humidity:	47 %
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

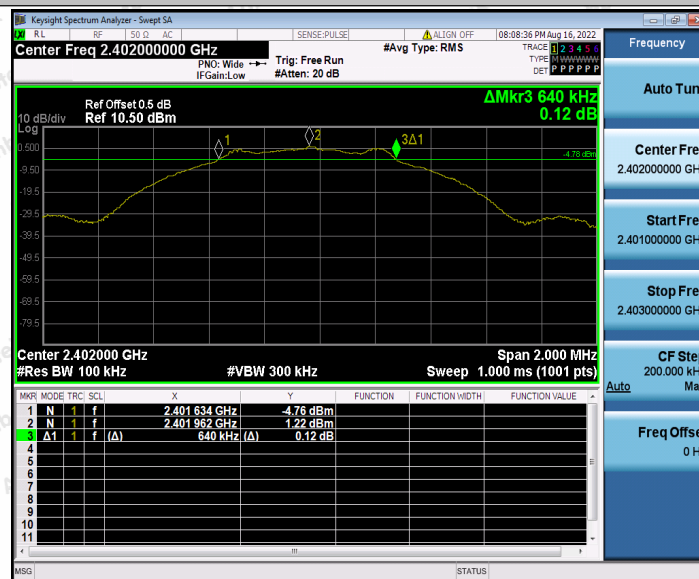
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.640	2401.634	2402.274	≥0.5	PASS
		2440	0.634	2439.636	2440.270	≥0.5	PASS
		2480	0.640	2479.632	2480.272	≥0.5	PASS
BLE_2M	Ant1	2402	1.095	2401.415	2402.510	≥0.5	PASS
		2440	1.100	2439.420	2440.520	≥0.5	PASS
		2480	1.090	2479.420	2480.510	≥0.5	PASS

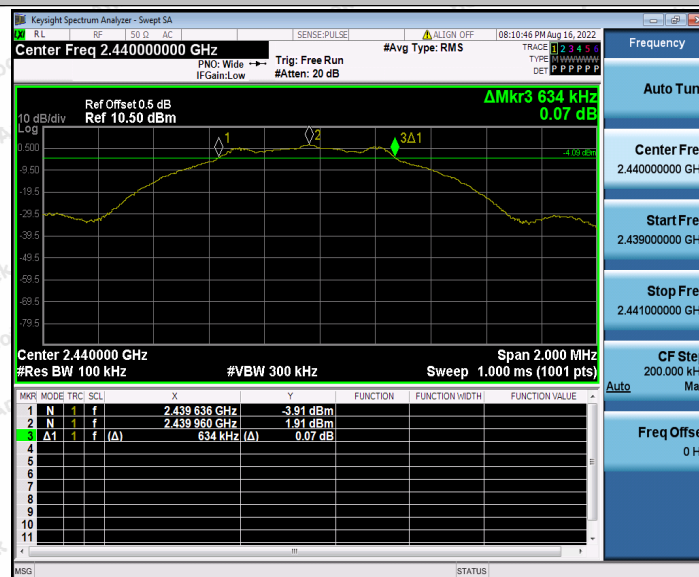


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

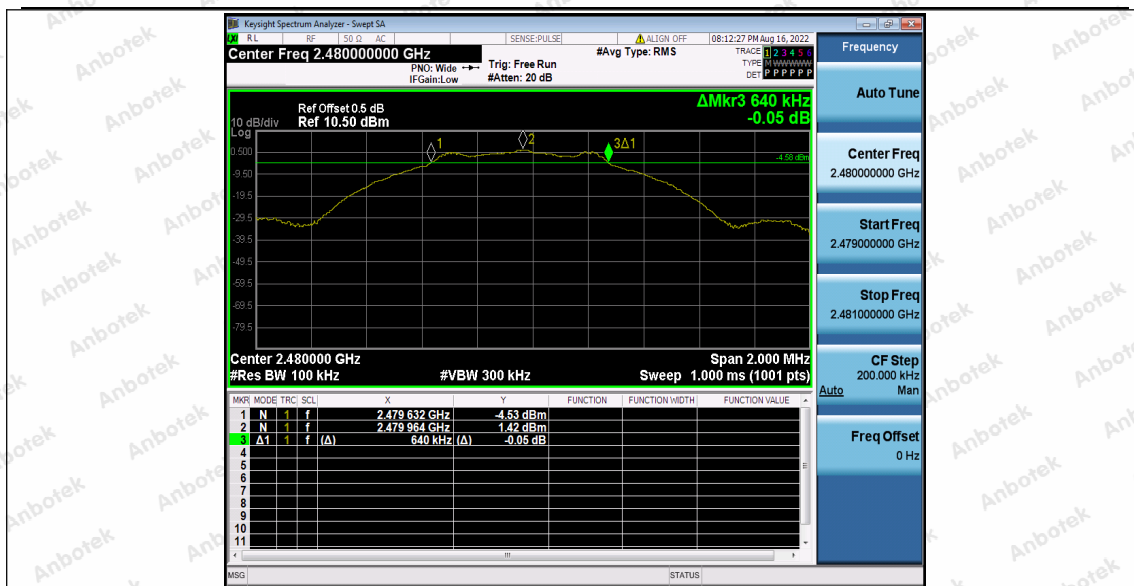
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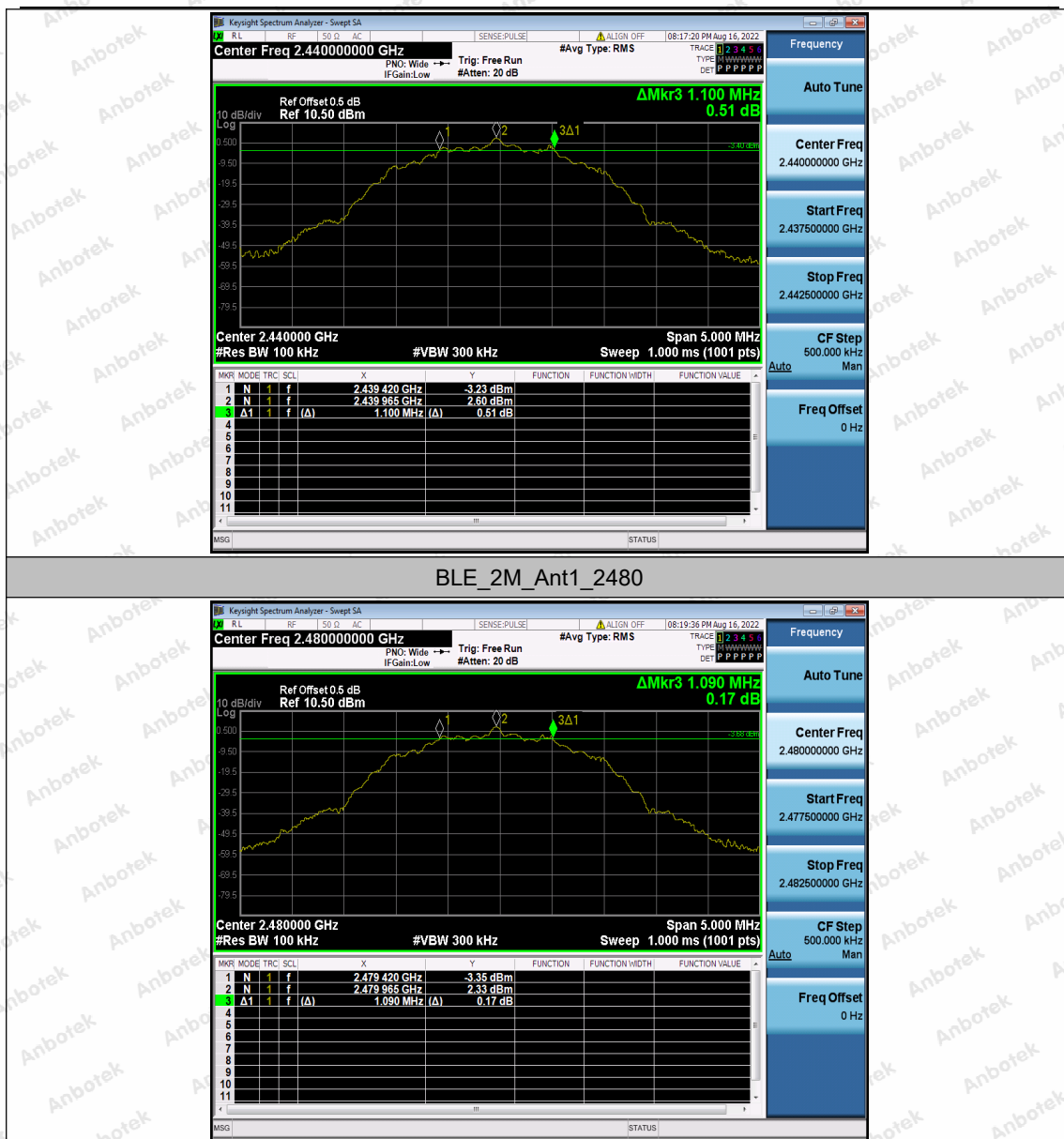


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





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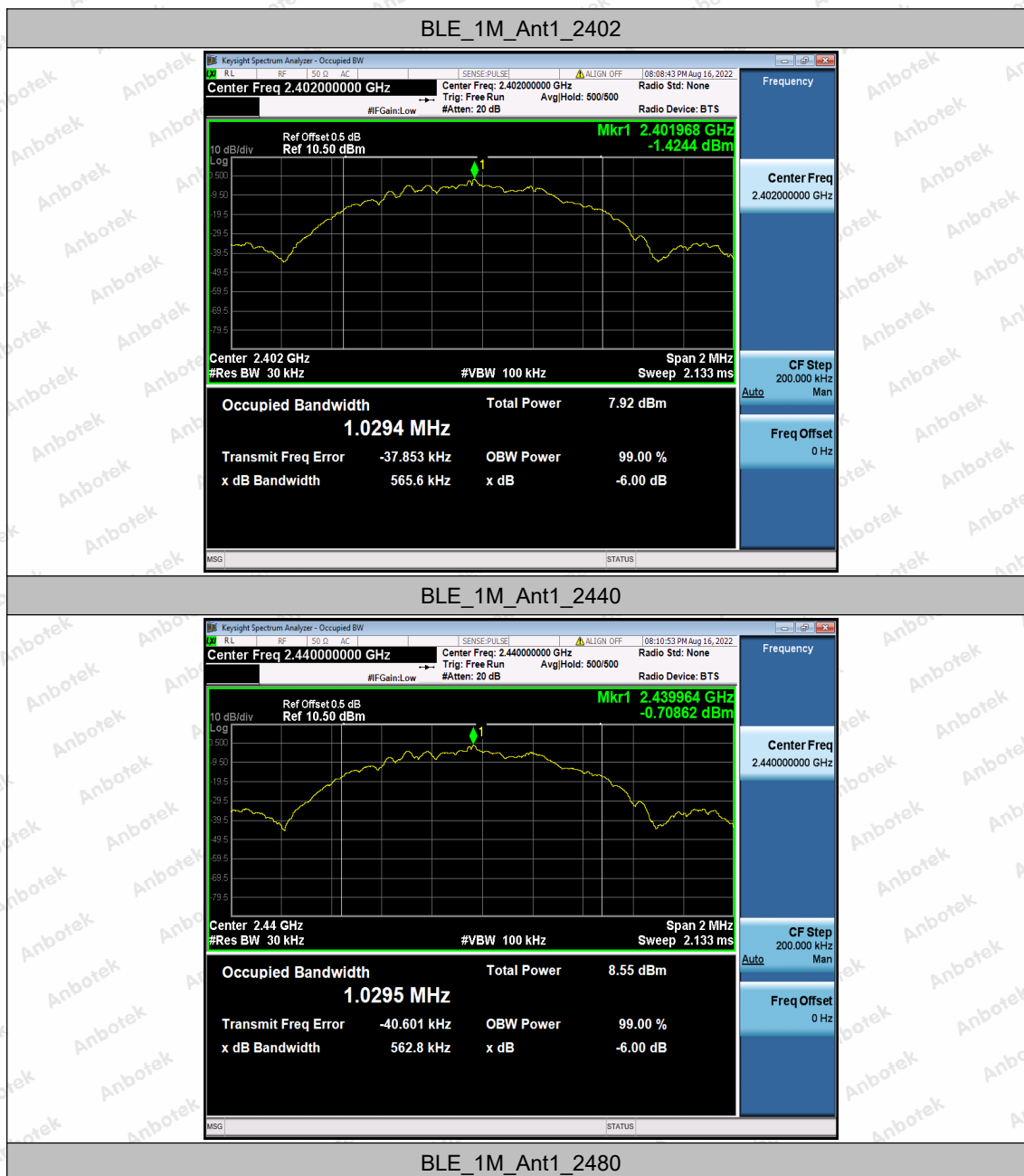
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0294	2401.4475	2402.4769	---	---
		2440	1.0295	2439.4447	2440.4742	---	---
		2480	1.0281	2479.4445	2480.4726	---	---
BLE_2M	Ant1	2402	2.0382	2400.9502	2402.9884	---	---
		2440	2.0323	2438.9513	2440.9836	---	---
		2480	2.0340	2478.9496	2480.9836	---	---



Test Graphs



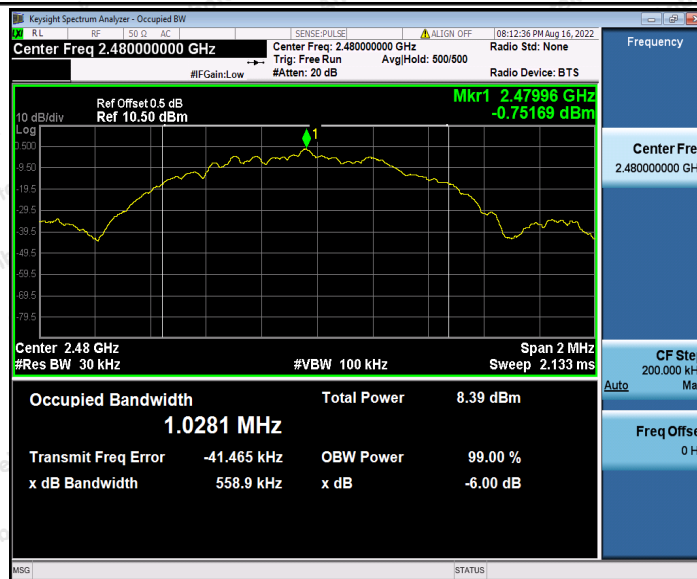
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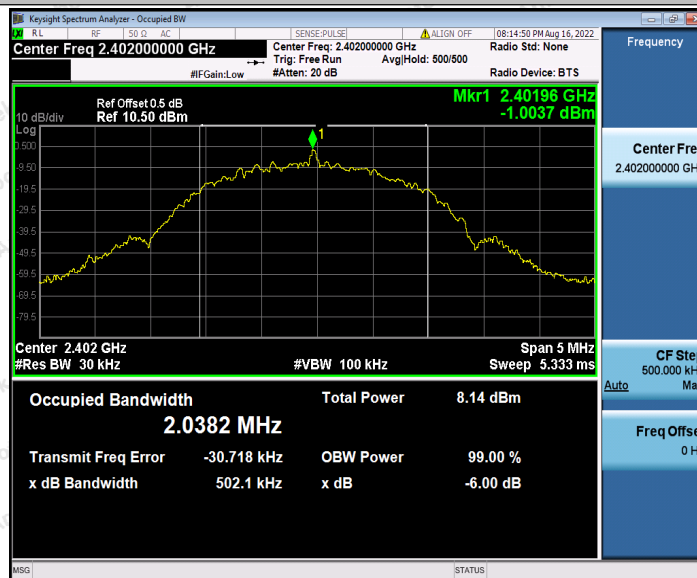


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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

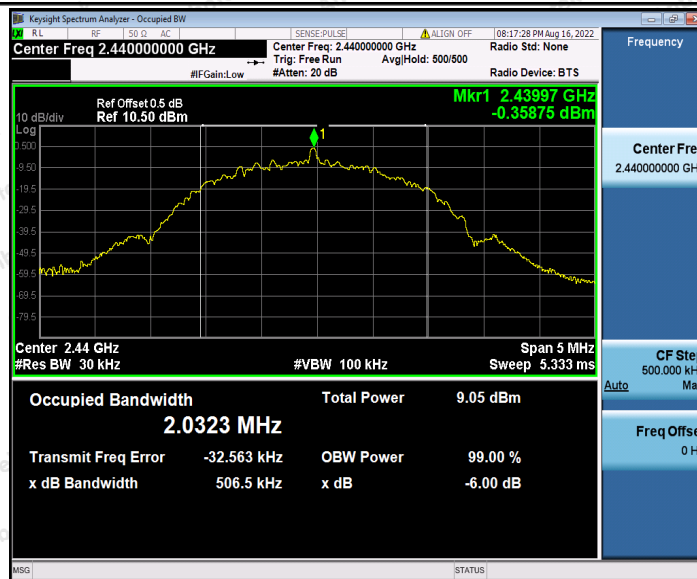
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BLE_2M_Ant1_2480

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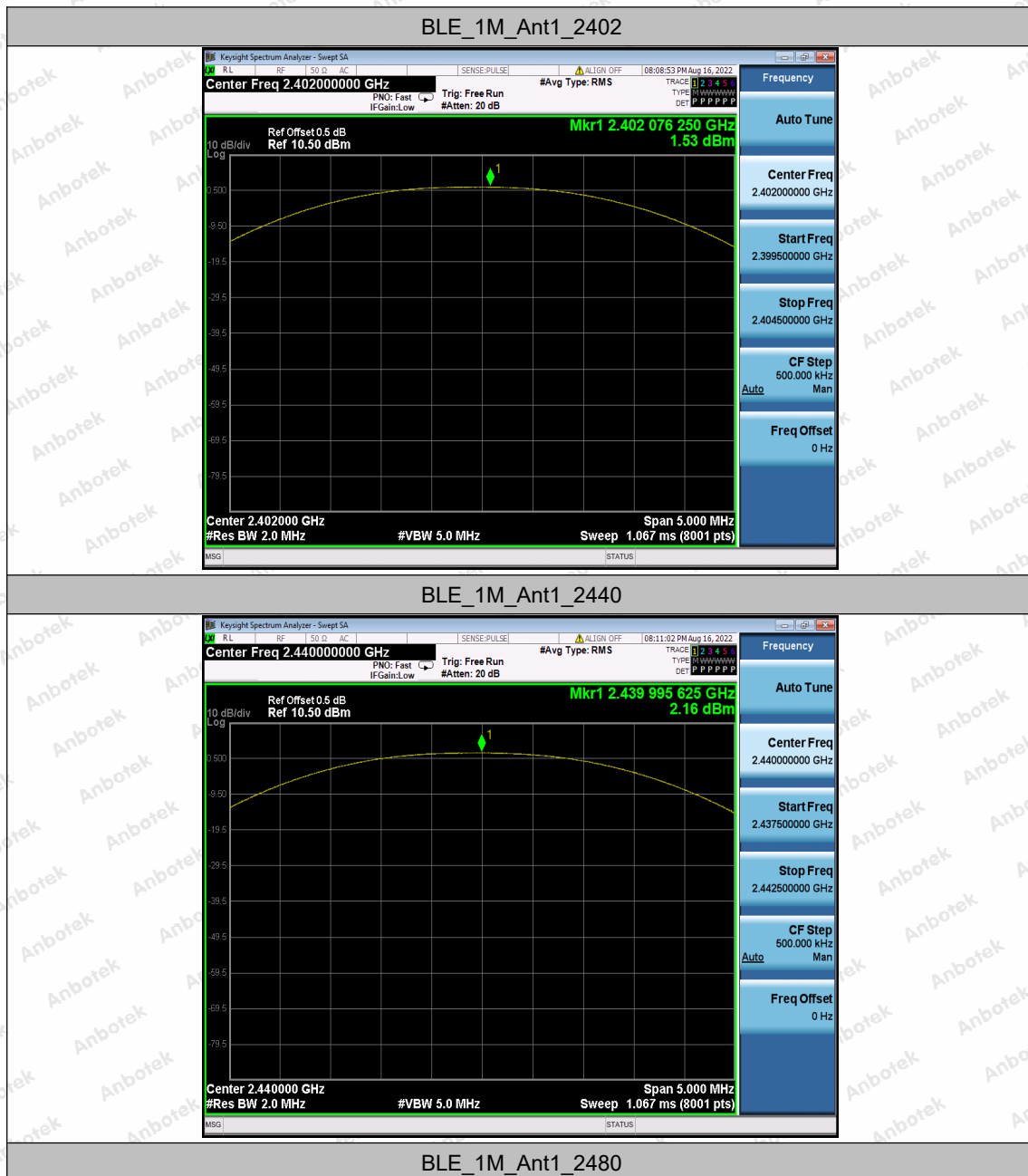
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.53	≤30	PASS
		2440	2.16	≤30	PASS
		2480	1.92	≤30	PASS
BLE_2M	Ant1	2402	1.92	≤30	PASS
		2440	2.77	≤30	PASS
		2480	2.6	≤30	PASS



Test Graphs Peak



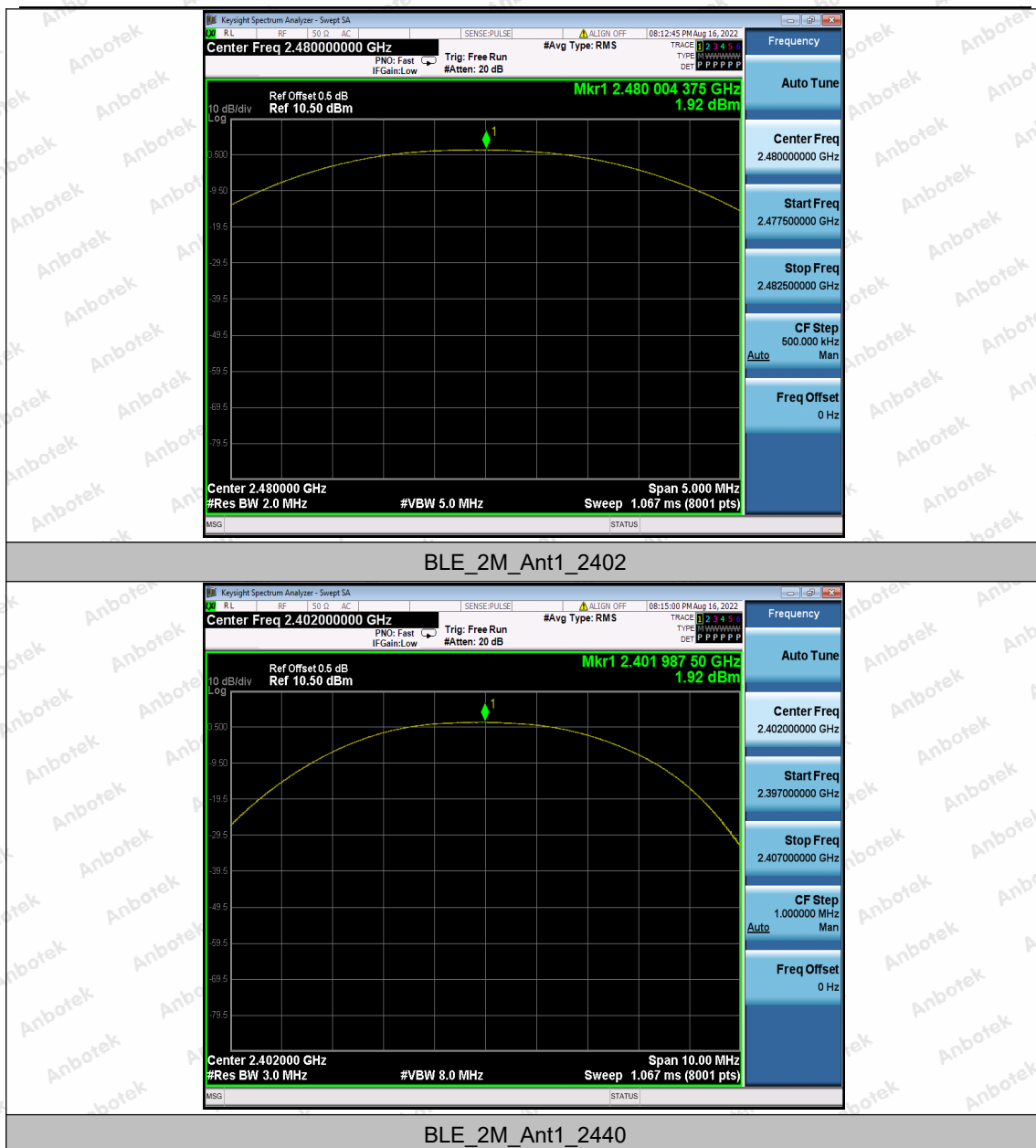
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.71	≤10	PASS
		2440	-13.08	≤10	PASS
		2480	-13.07	≤10	PASS
BLE_2M	Ant1	2402	-15.47	≤10	PASS
		2440	-14.67	≤10	PASS
		2480	-14.81	≤10	PASS



Test Graphs



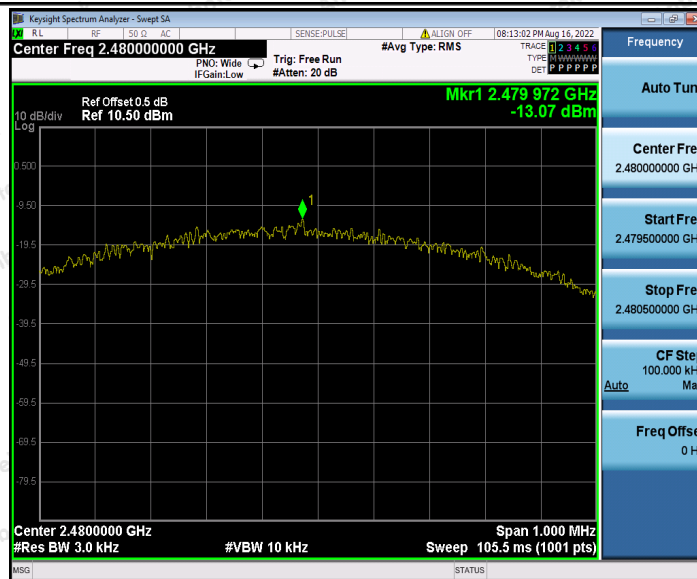
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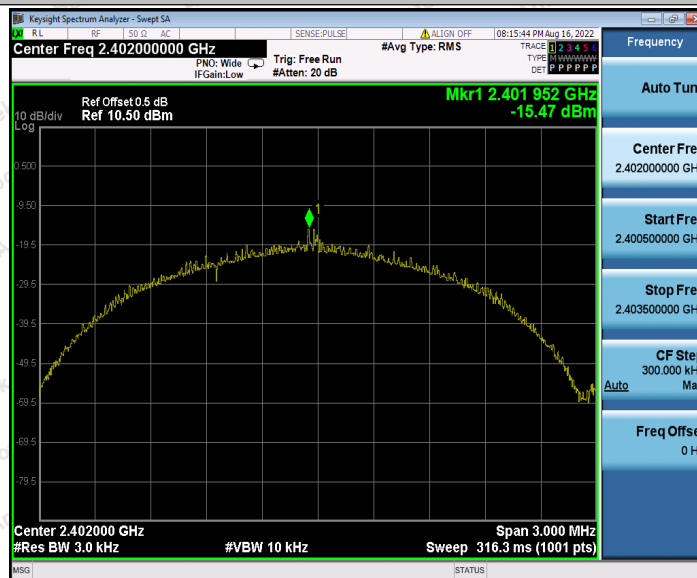


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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

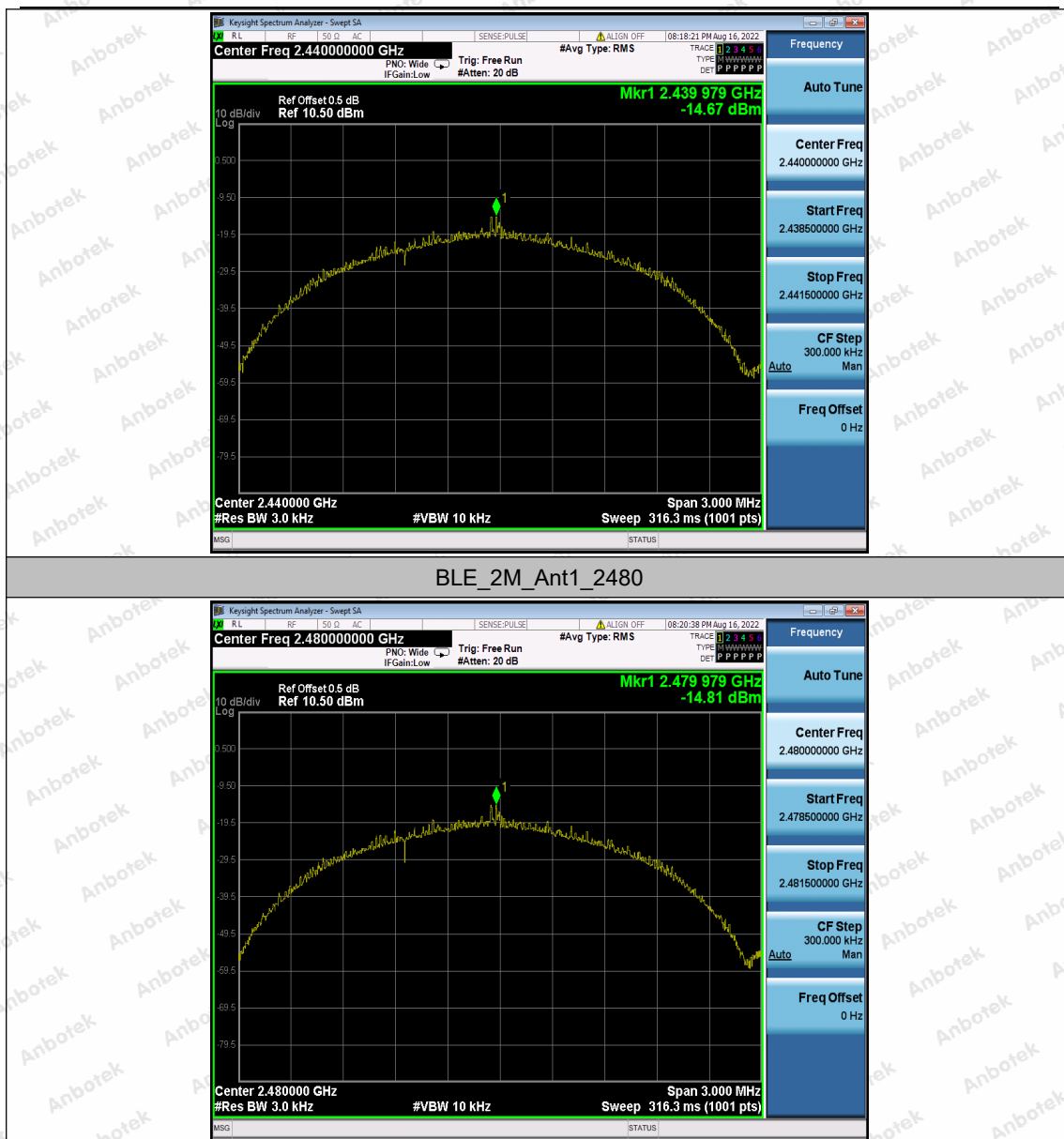
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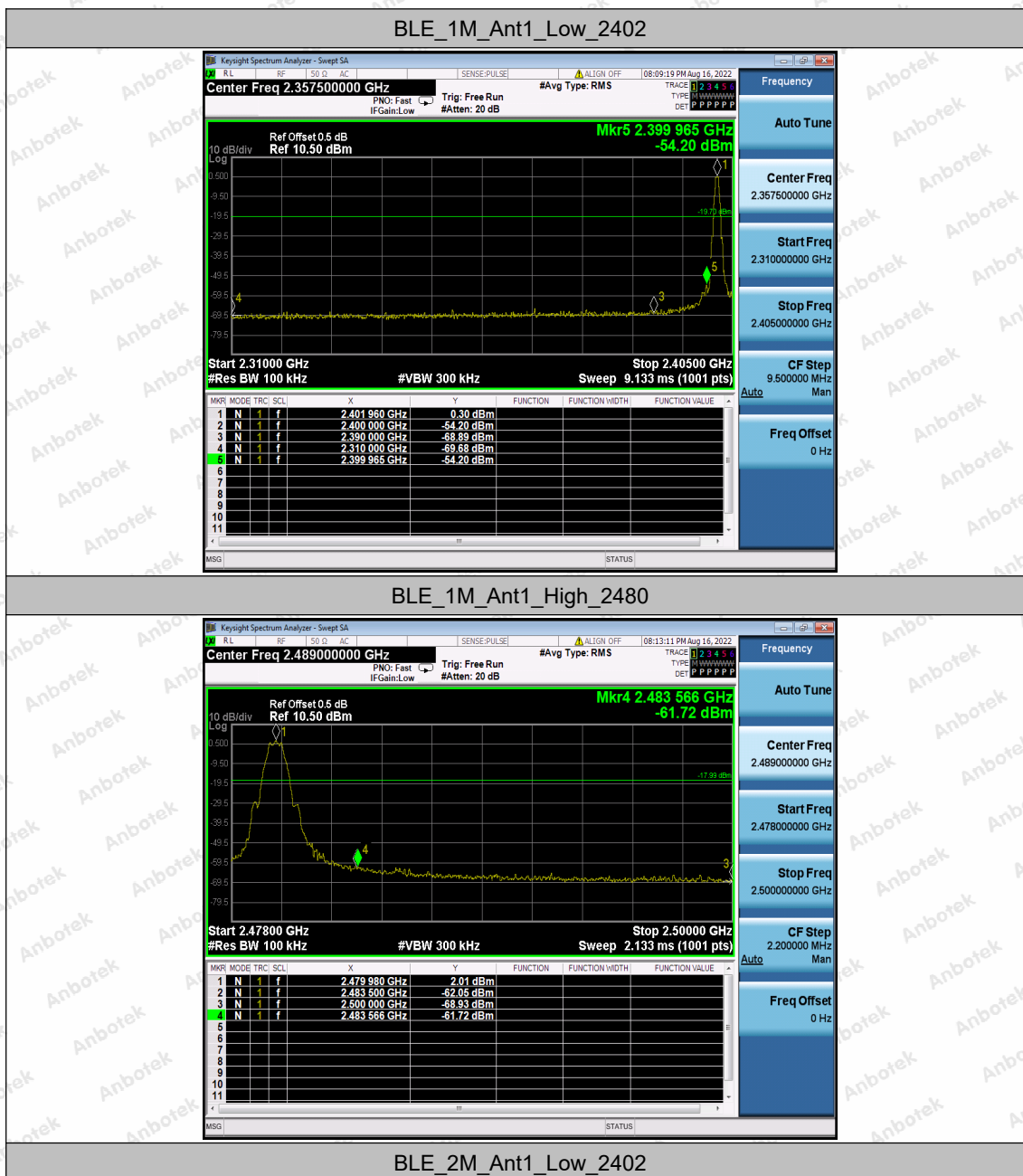
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.30	-54.2	≤-19.7	PASS
		High	2480	2.01	-61.72	≤-17.99	PASS
BLE_2M	Ant1	Low	2402	1.13	-46.51	≤-18.87	PASS
		High	2480	2.45	-59.85	≤-17.55	PASS



Test Graphs



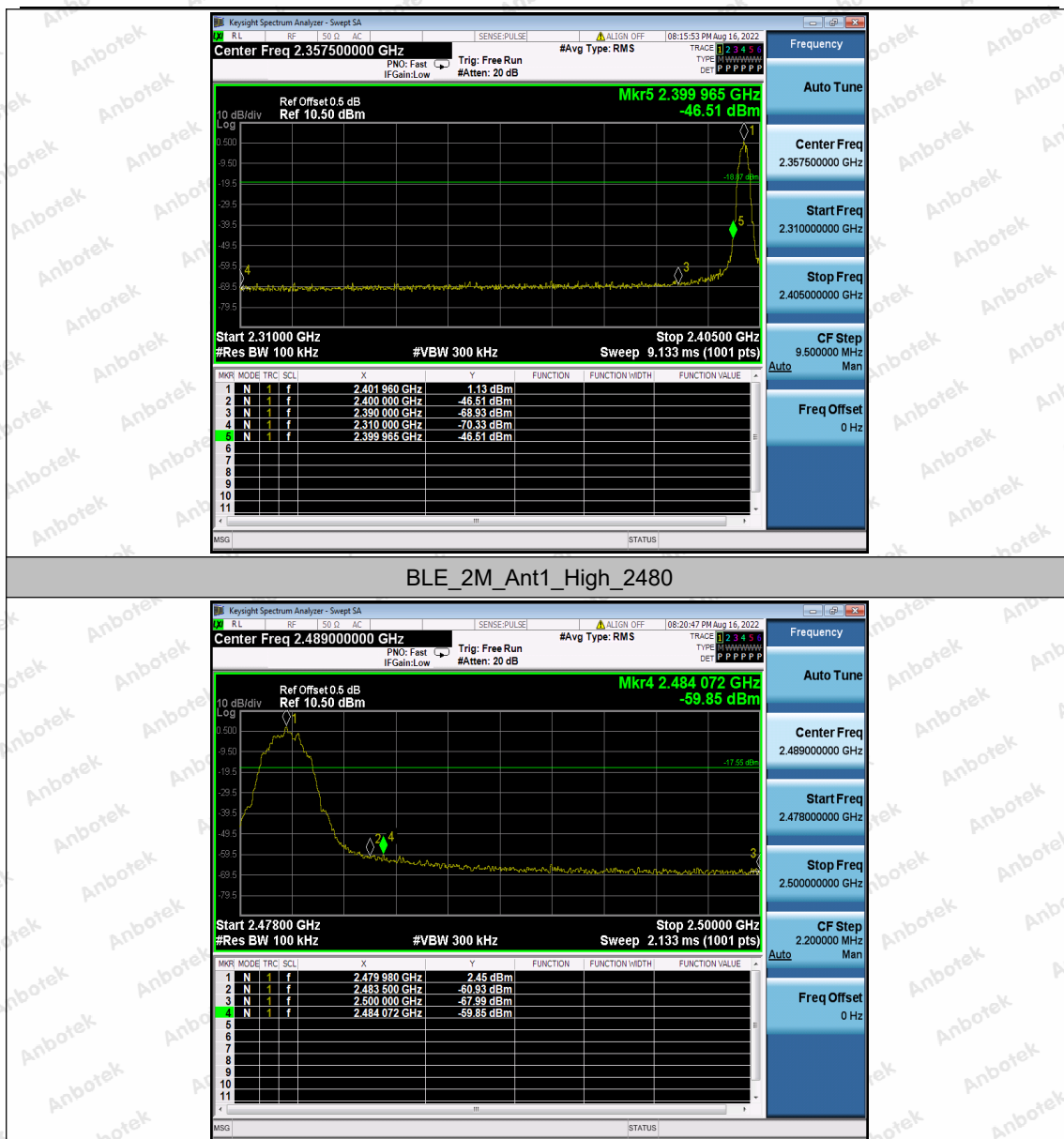
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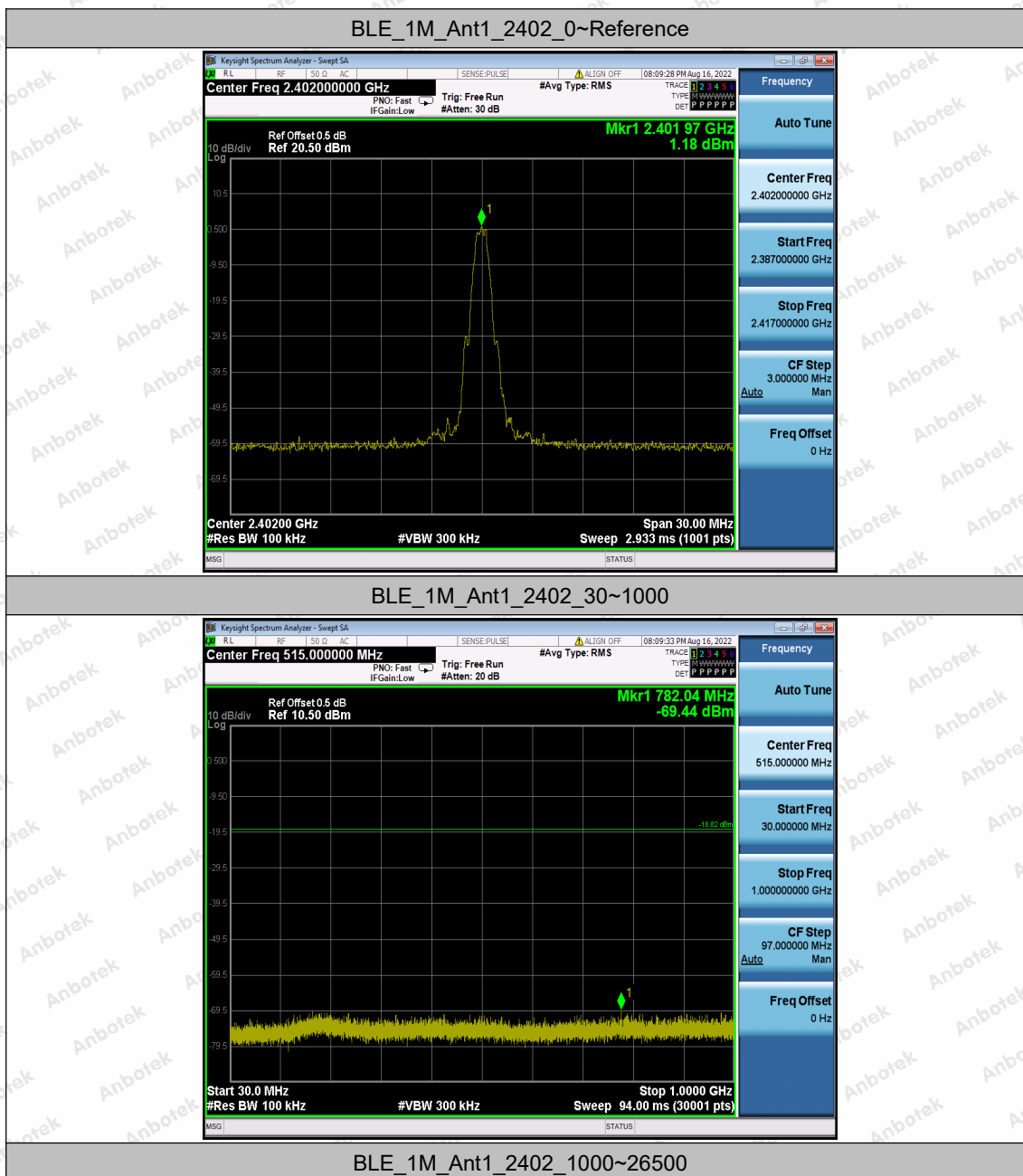
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	1.18	1.18	---	PASS
			30~1000	1.18	-69.45	≤-18.82	PASS
			1000~26500	1.18	-53.27	≤-18.82	PASS
		2440	Reference	1.81	1.81	---	PASS
			30~1000	1.81	-69.49	≤-18.19	PASS
			1000~26500	1.81	-54.08	≤-18.19	PASS
		2480	Reference	1.94	1.94	---	PASS
			30~1000	1.94	-69.15	≤-18.06	PASS
			1000~26500	1.94	-54.05	≤-18.06	PASS
BLE_2M	Ant1	2402	Reference	1.83	1.83	---	PASS
			30~1000	1.83	-69.02	≤-18.17	PASS
			1000~26500	1.83	-53.52	≤-18.17	PASS
		2440	Reference	2.64	2.64	---	PASS
			30~1000	2.64	-69.39	≤-17.36	PASS
			1000~26500	2.64	-53.51	≤-17.36	PASS
		2480	Reference	2.46	2.46	---	PASS
			30~1000	2.46	-69.56	≤-17.54	PASS
			1000~26500	2.46	-54.28	≤-17.54	PASS



Test Graphs



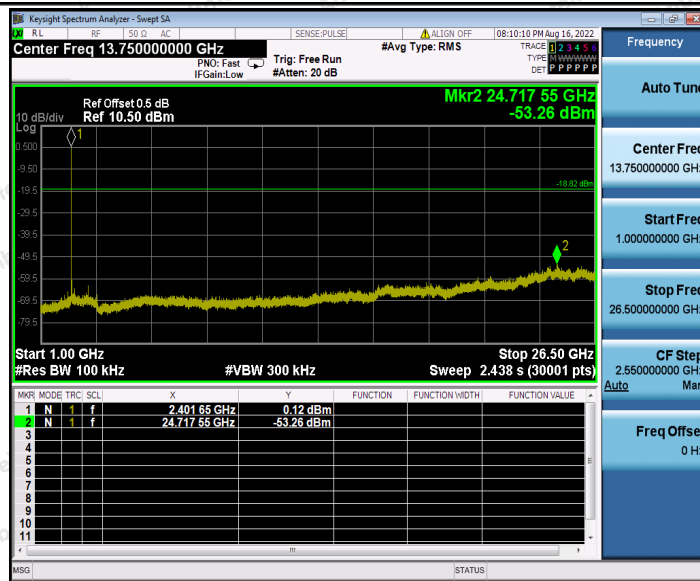
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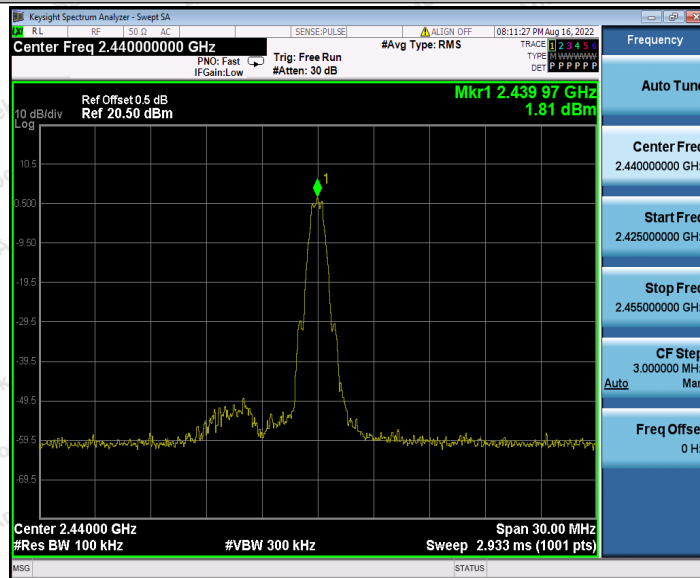


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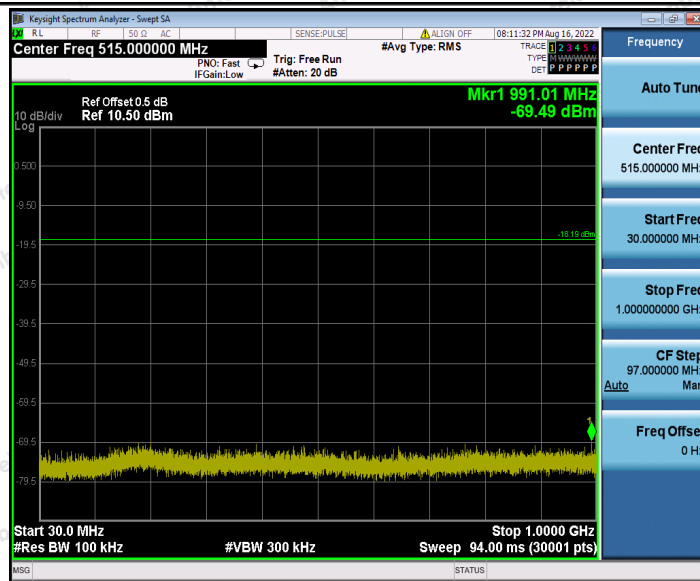


BLE_1M_Ant1_2440_0~Reference

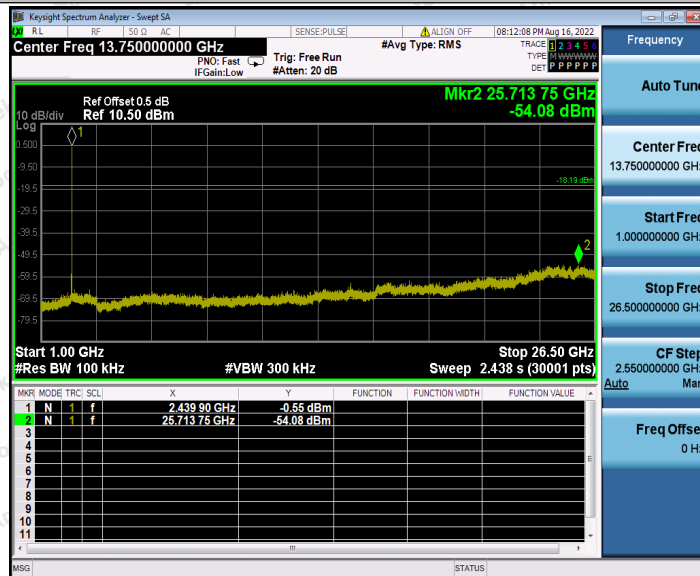


BLE_1M_Ant1_2440_30~1000





BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

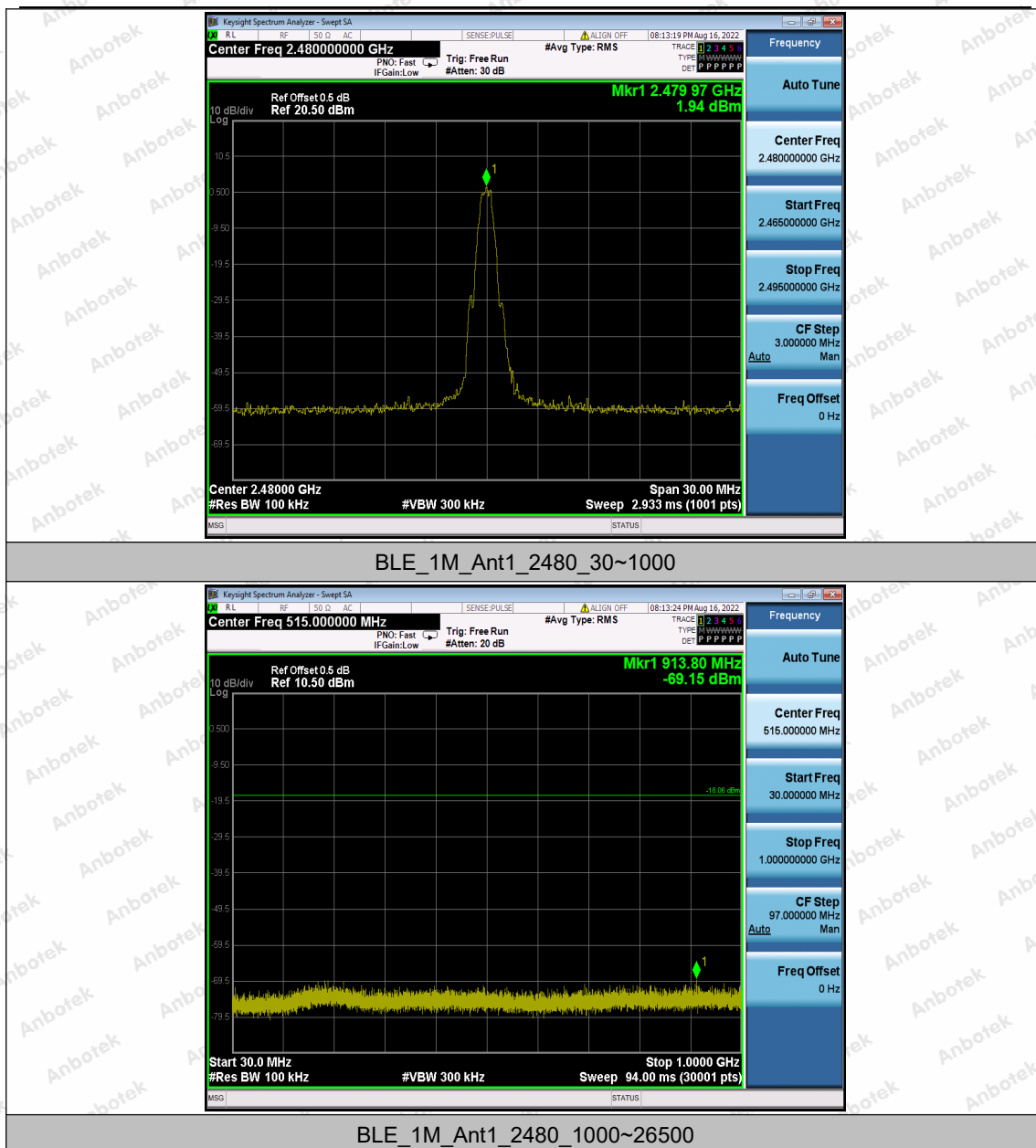
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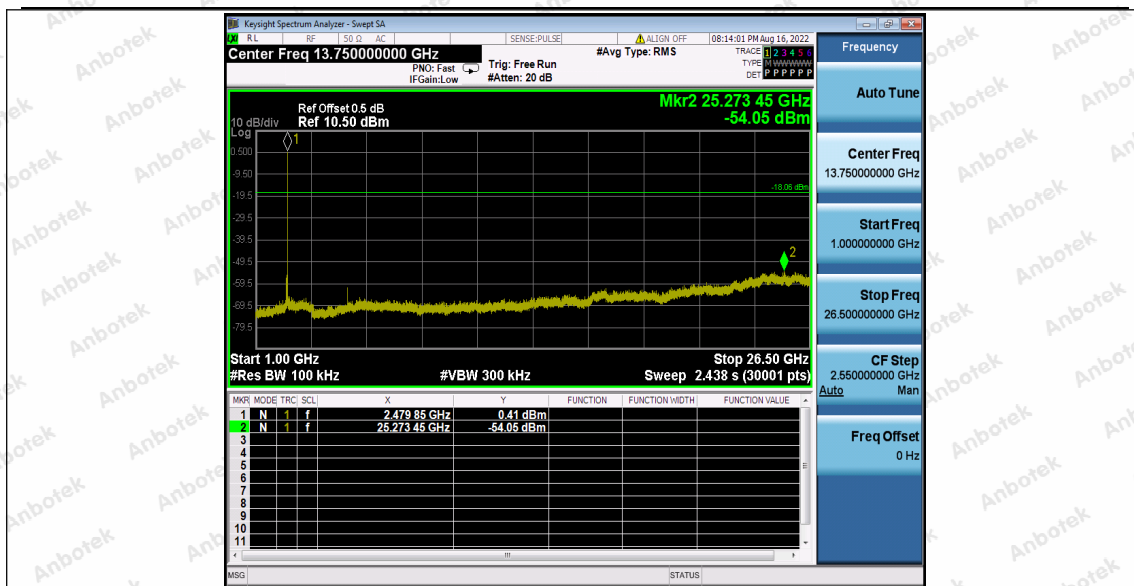
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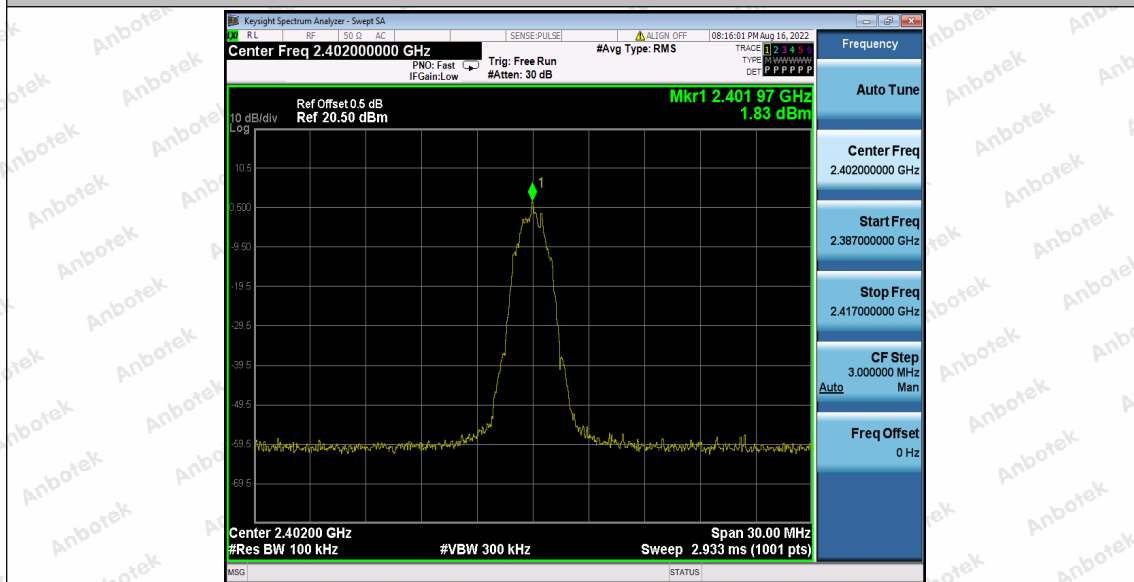


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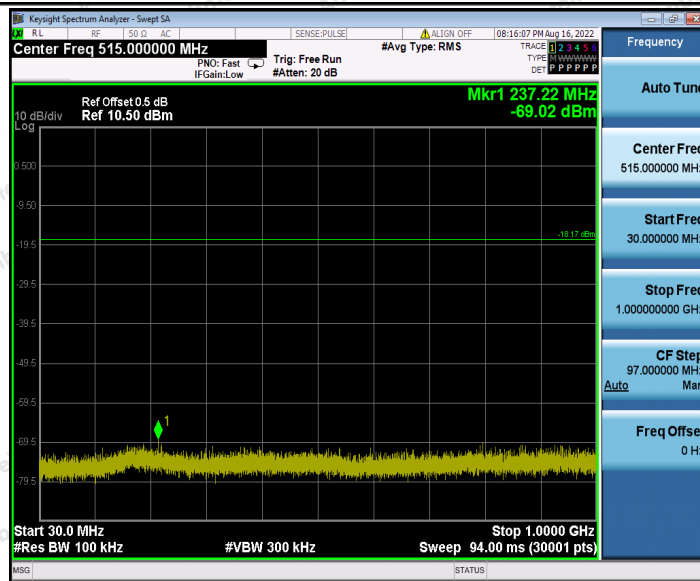


BLE_2M_Ant1_2402_0~Reference

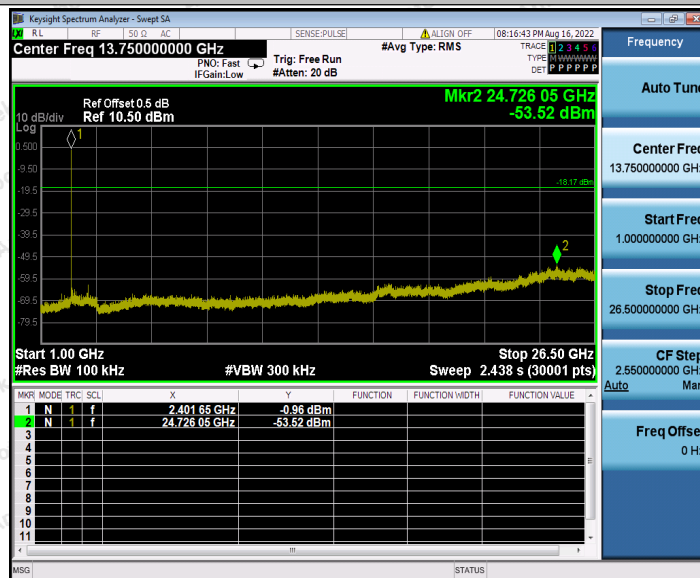


BLE_2M_Ant1_2402_30~1000





BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

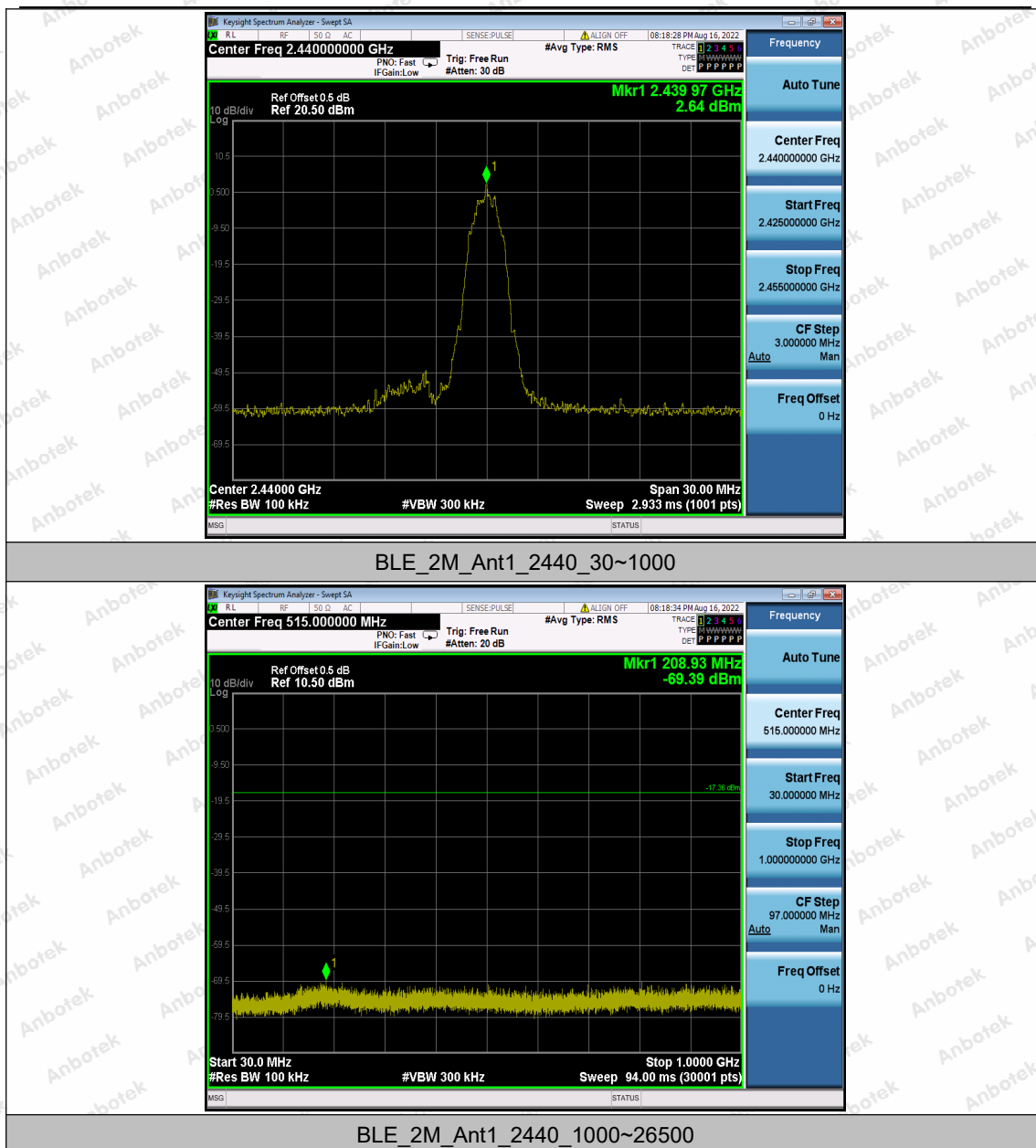
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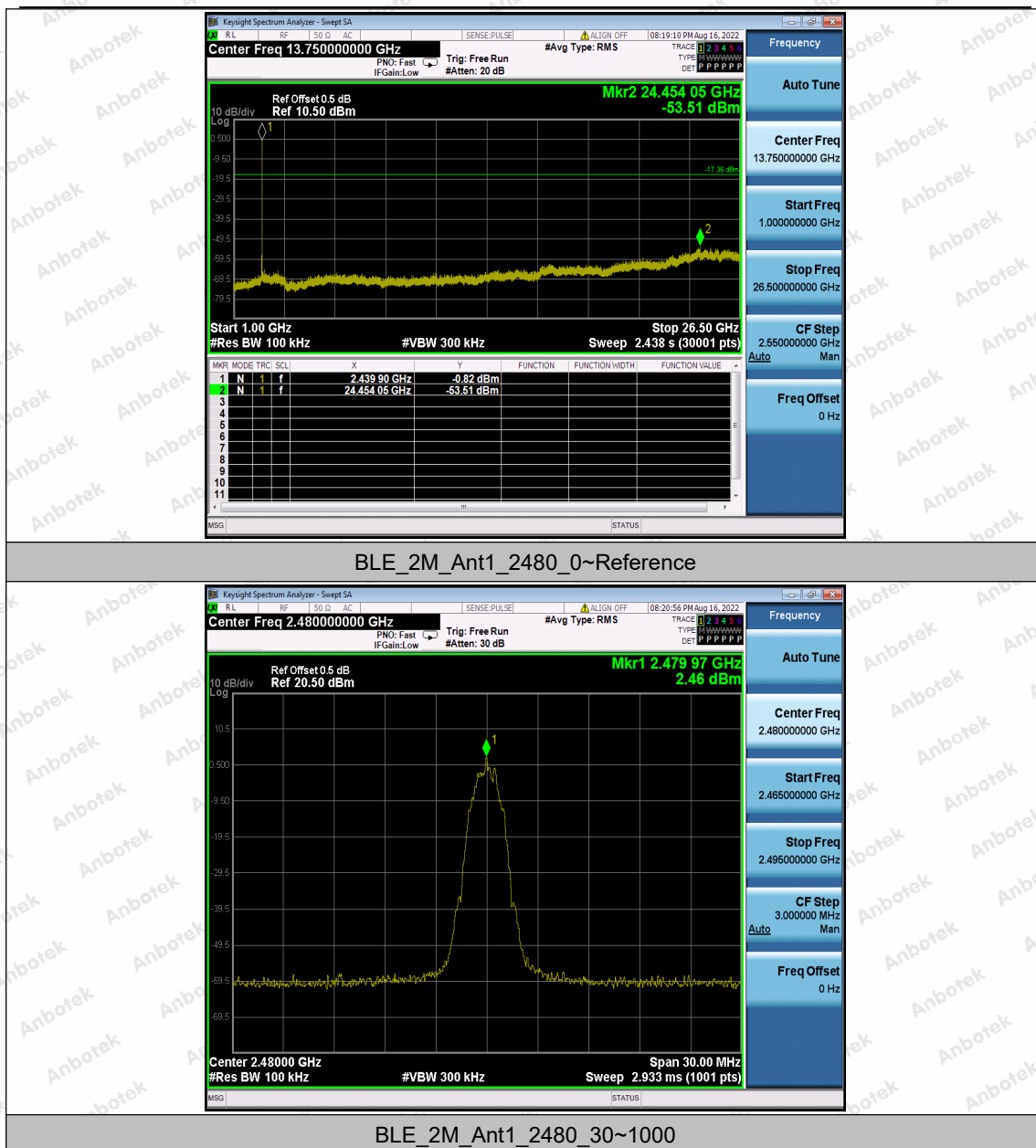
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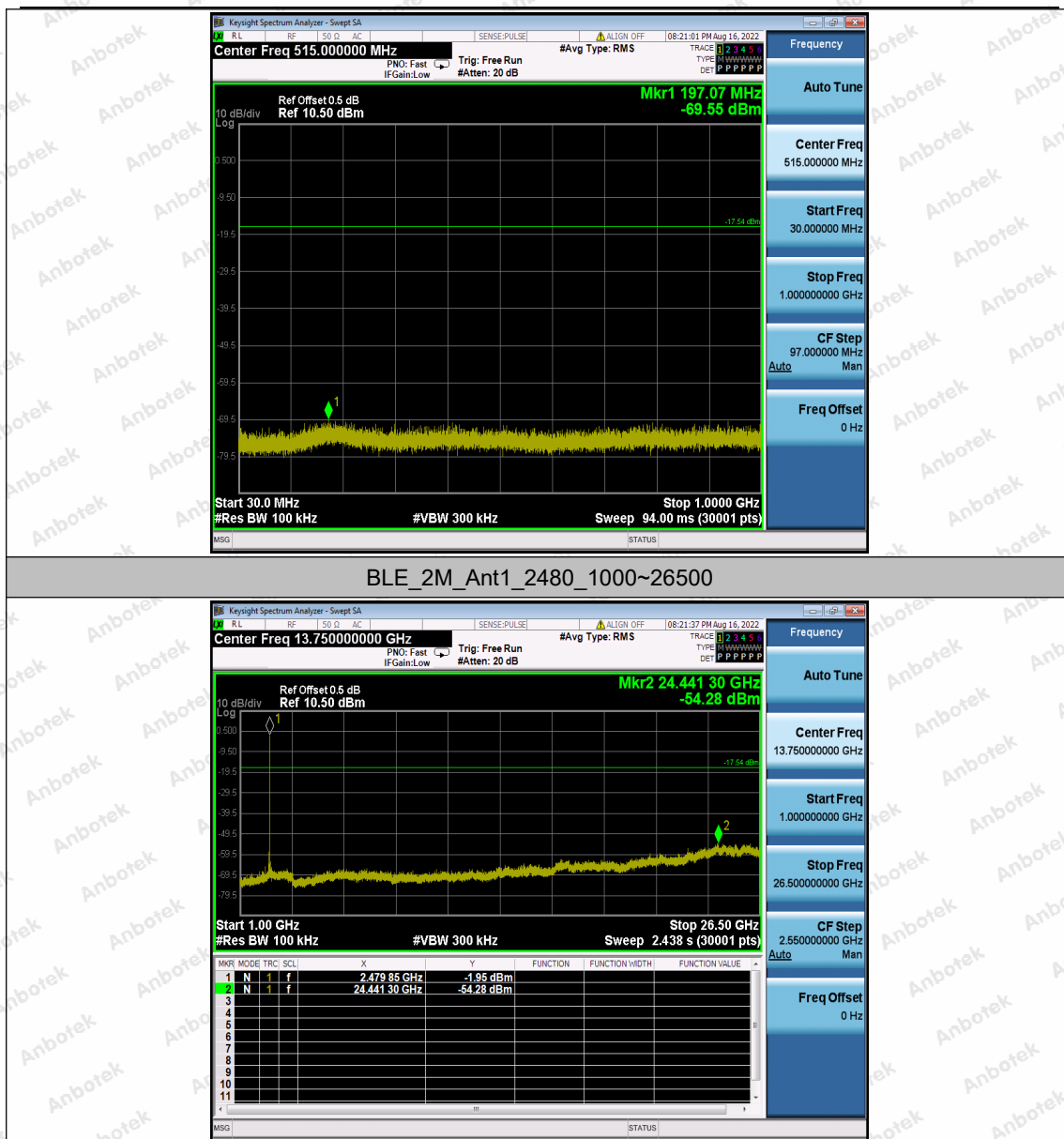
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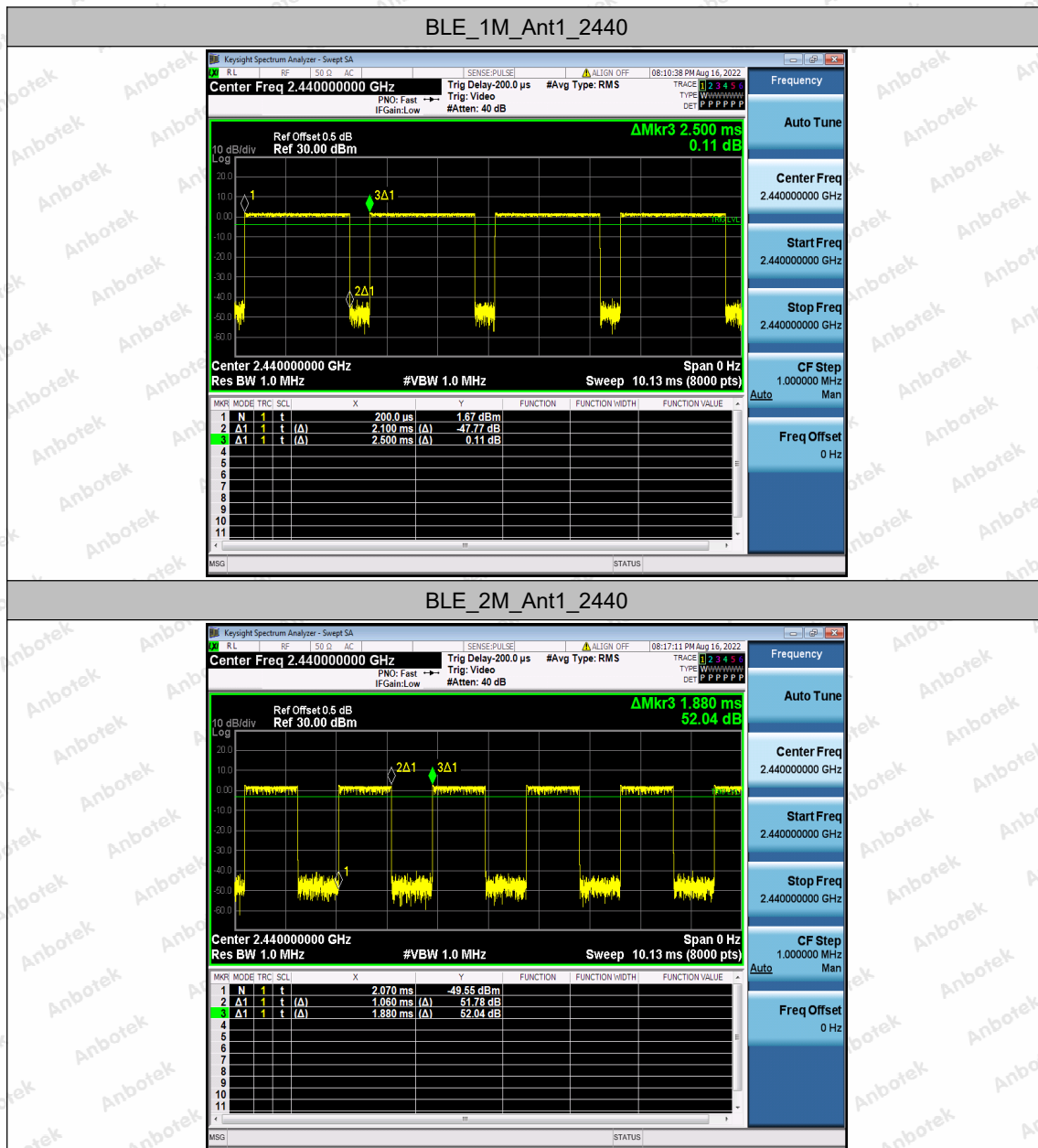
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2440	2.10	2.50	84.00	0.76
BLE_2M	Ant1	2440	1.06	1.88	56.38	2.49



Test Graphs



---End---

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