

Appendix Test Data

Report No.:	18220WC10144401	Test Date:	2021.7.29
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	56.8%
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.692	2401.600	2402.292	≥ 0.5	PASS
		2440	0.672	2439.600	2440.272	≥ 0.5	PASS
		2480	0.660	2479.608	2480.268	≥ 0.5	PASS
BLE_2M	Ant1	2402	1.212	2401.312	2402.524	≥ 0.5	PASS
		2440	1.308	2439.260	2440.568	≥ 0.5	PASS
		2480	1.296	2479.264	2480.560	≥ 0.5	PASS

Test Graphs

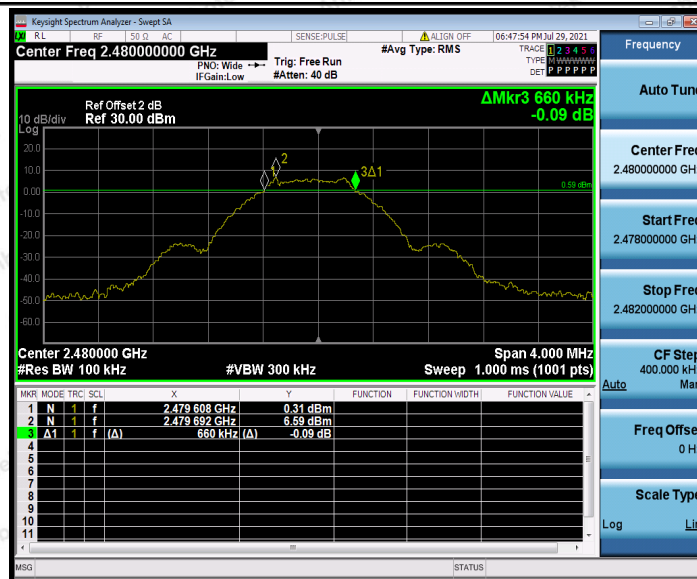
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



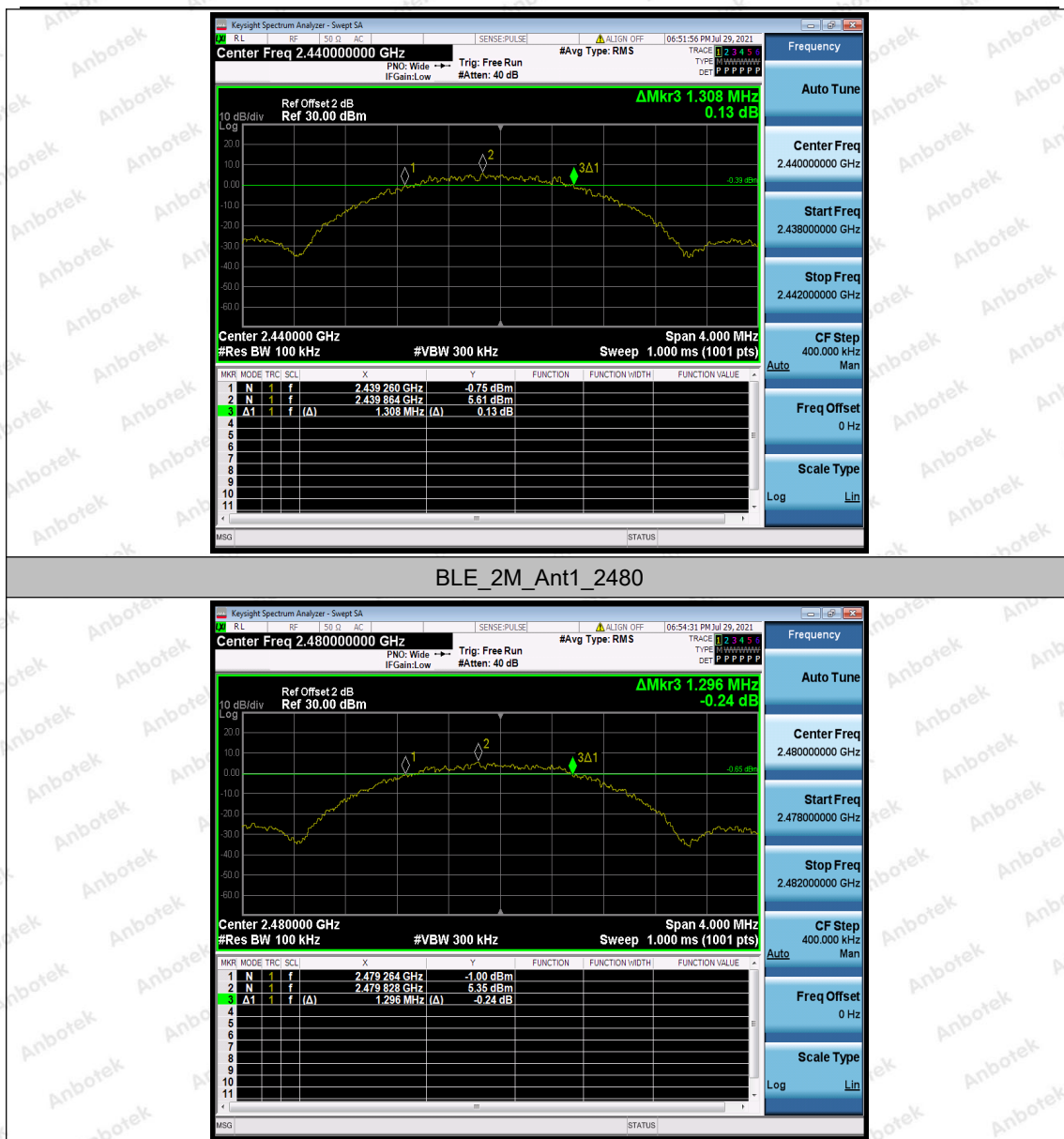
BLE_2M_Ant1_2440

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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0382	2401.421	2402.459	---	PASS
		2440	1.0384	2439.416	2440.454	---	PASS
		2480	1.0290	2479.421	2480.450	---	PASS
BLE_2M	Ant1	2402	2.0799	2400.904	2402.983	---	PASS
		2440	2.0576	2438.912	2440.969	---	PASS
		2480	2.0742	2478.904	2480.978	---	PASS

Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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BLE_2M_Ant1_2402



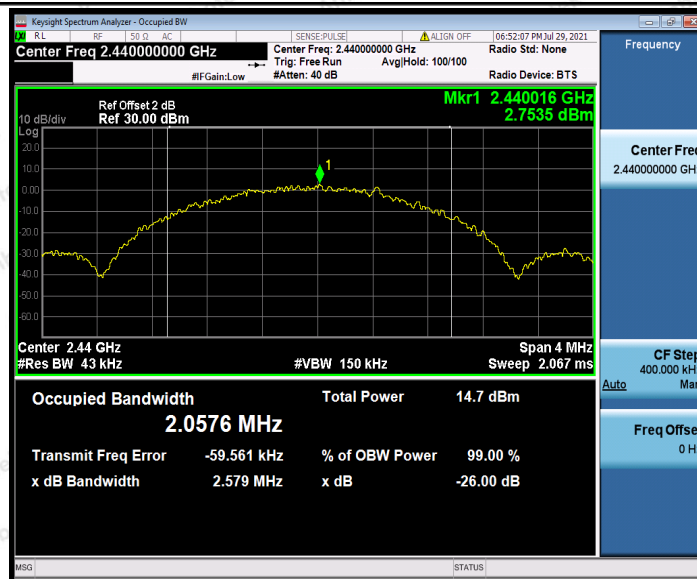
BLE_2M_Ant1_2440

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BLE_2M_Ant1_2480



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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	7.46	<=30	PASS
		2440	7.48	<=30	PASS
		2480	7.23	<=30	PASS
BLE_2M	Ant1	2402	7.47	<=30	PASS
		2440	7.49	<=30	PASS
		2480	7.25	<=30	PASS

Test Graphs



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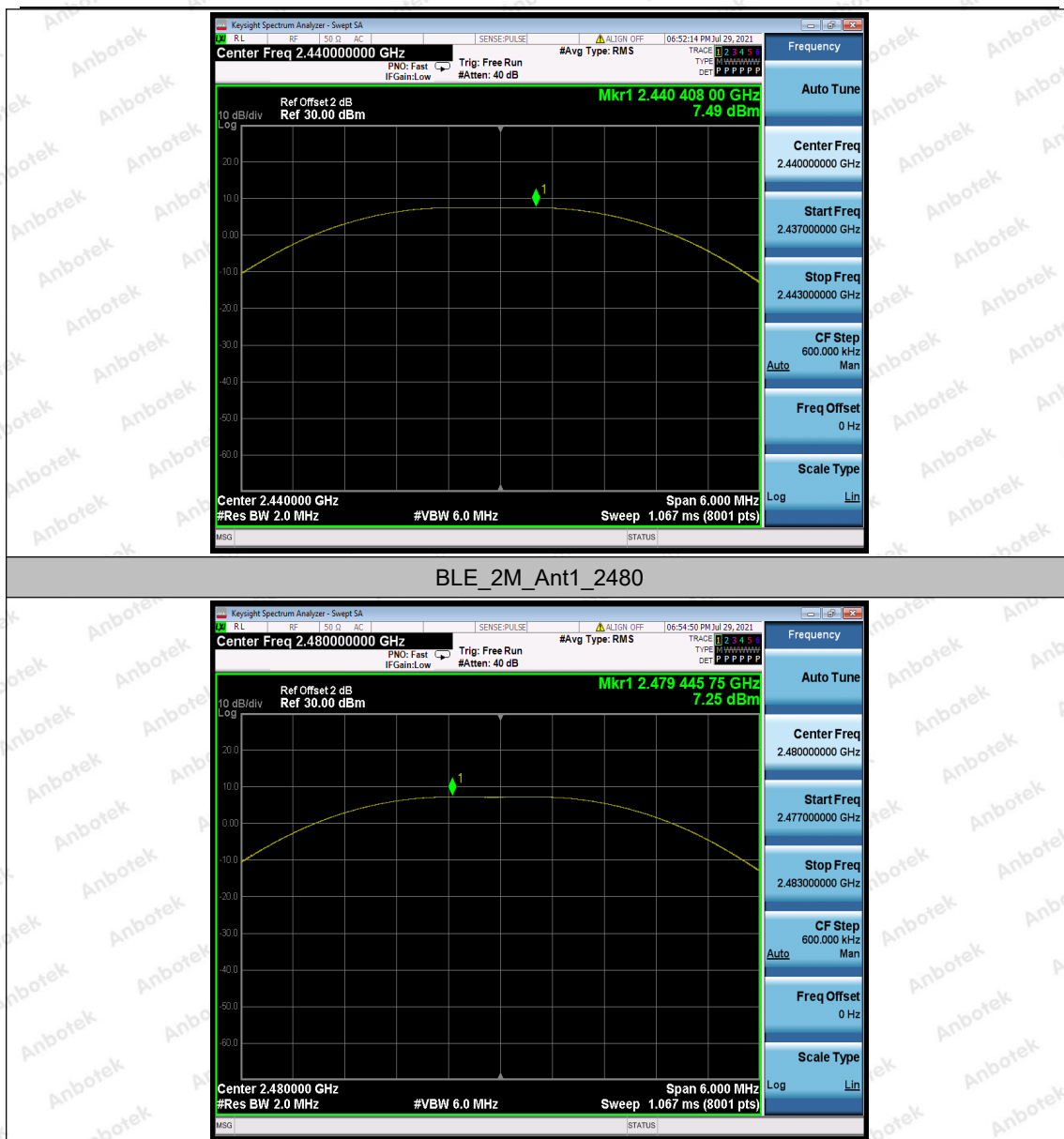


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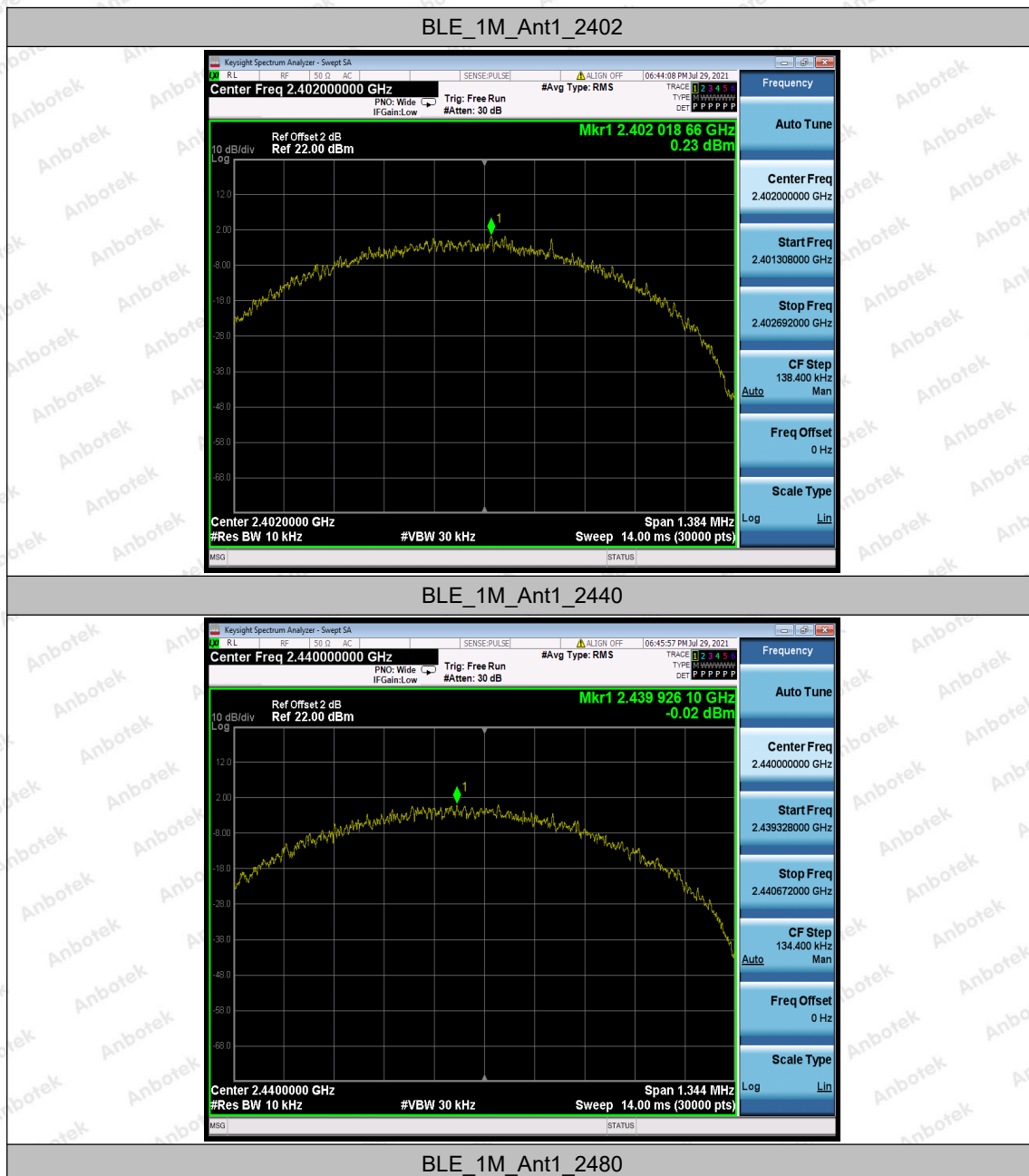
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	0.23	-5.00	<=8	PASS
		2440	-0.02	-5.25	<=8	PASS
		2480	-0.24	-5.47	<=8	PASS
BLE_2M	Ant1	2402	-1.99	-7.22	<=8	PASS
		2440	-2.3	-7.53	<=8	PASS
		2480	-3.08	-8.31	<=8	PASS

Test Graphs



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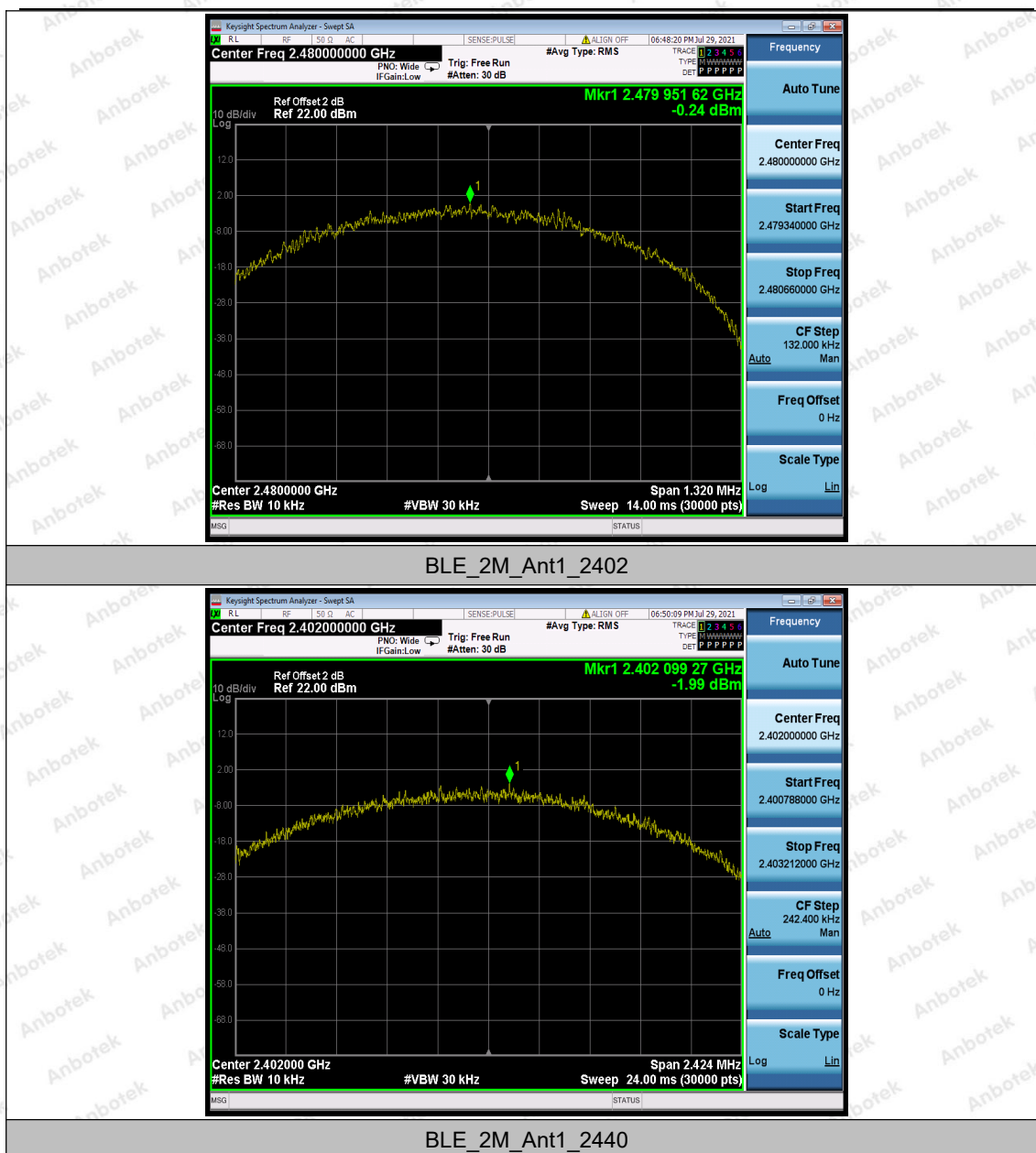
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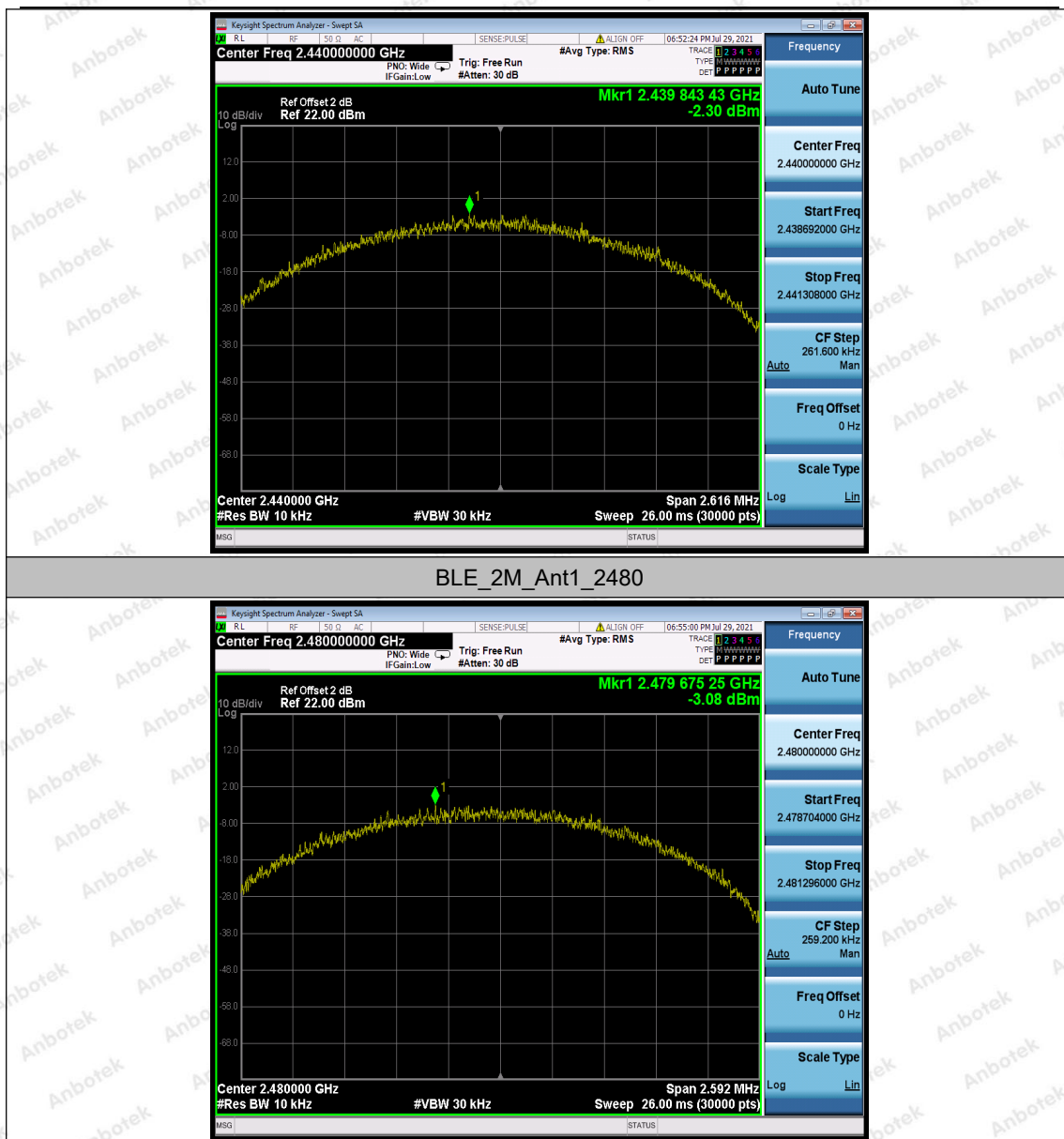


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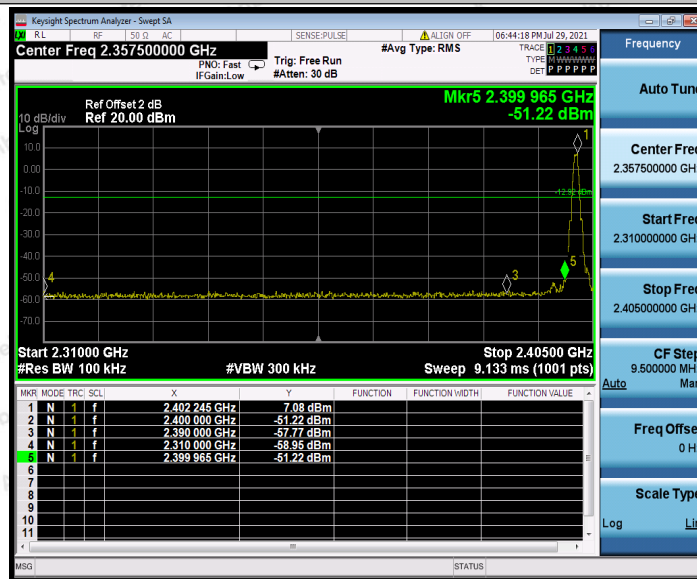
Appendix E: Band edge measurements

Test Result

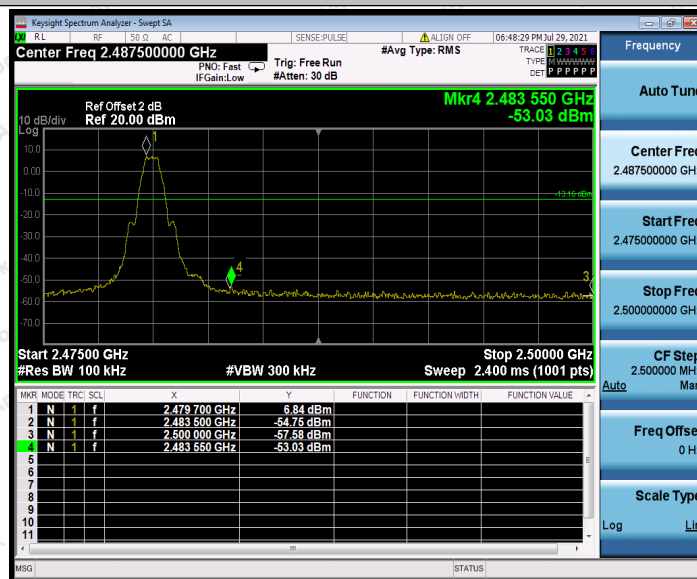
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	7.09	-51.22	<=-12.92	PASS
		High	2480	6.84	-53.03	<=-13.16	PASS
BLE_2M	Ant1	Low	2402	5.89	-25.78	<=-14.12	PASS
		High	2480	5.83	-53.75	<=-14.17	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



BLE_2M_Ant1_Low_2402

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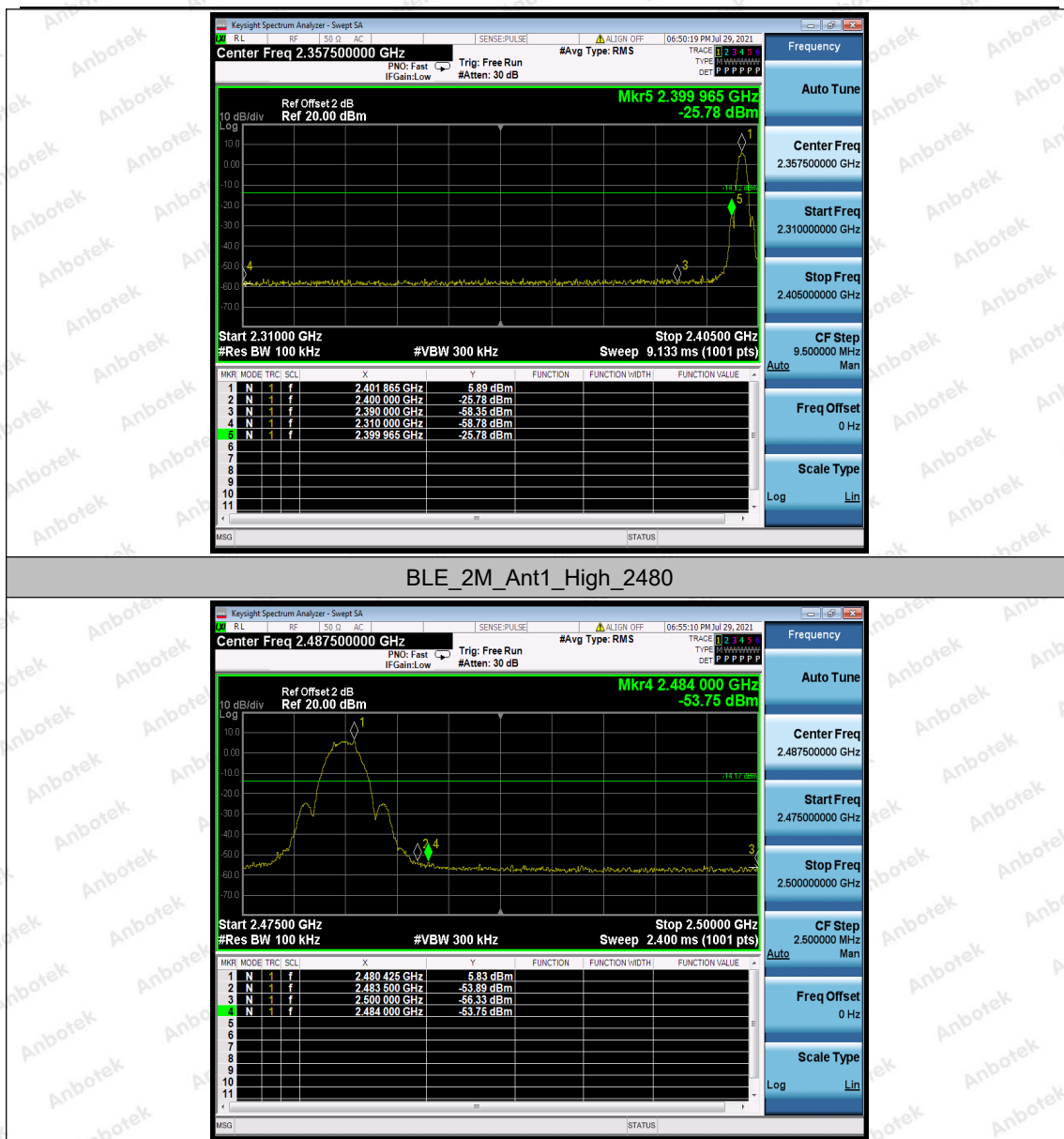
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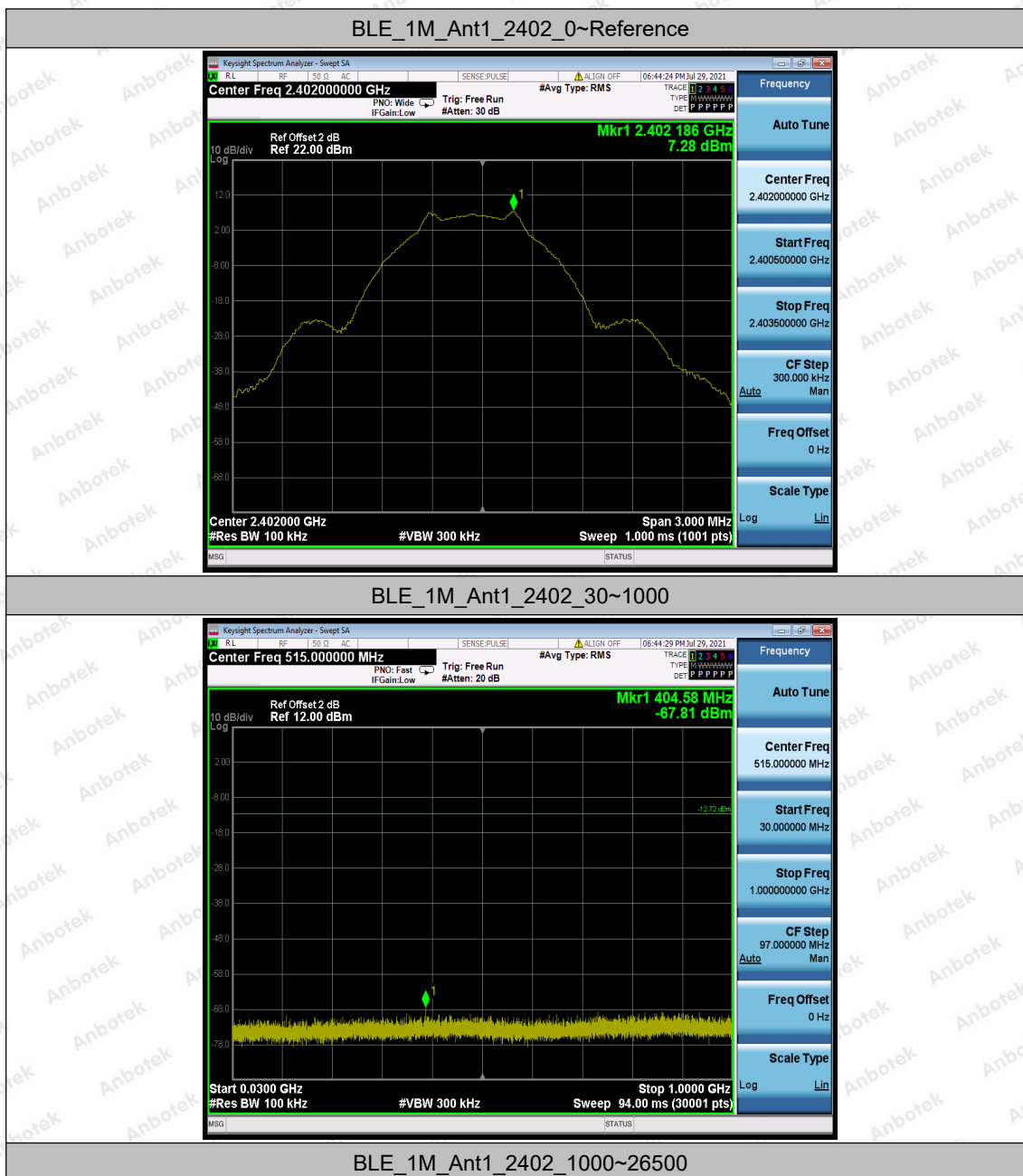
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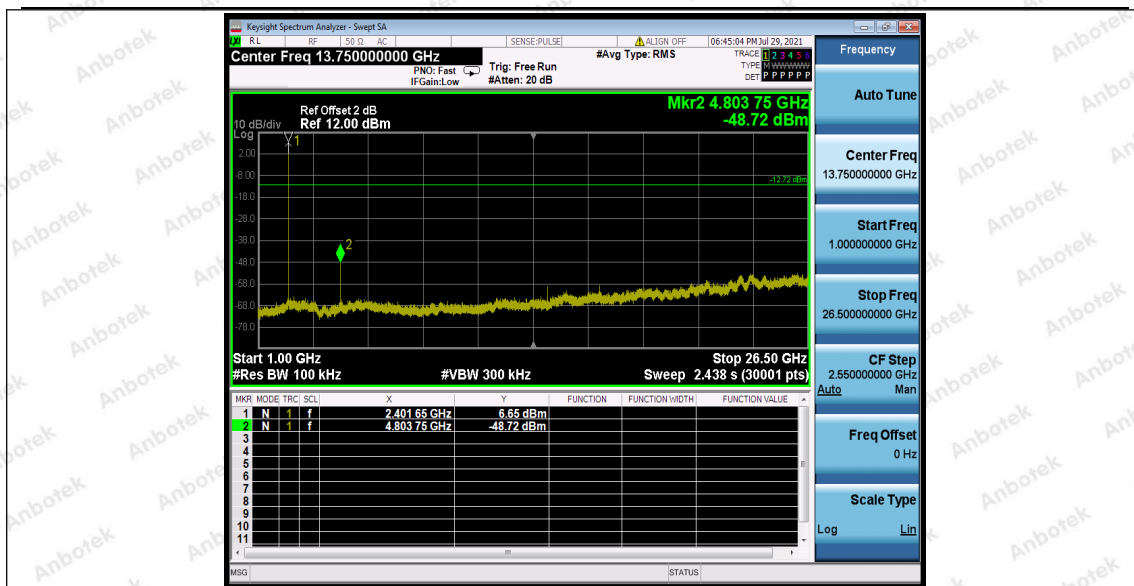
Appendix F: Conducted Spurious Emission

Test Result

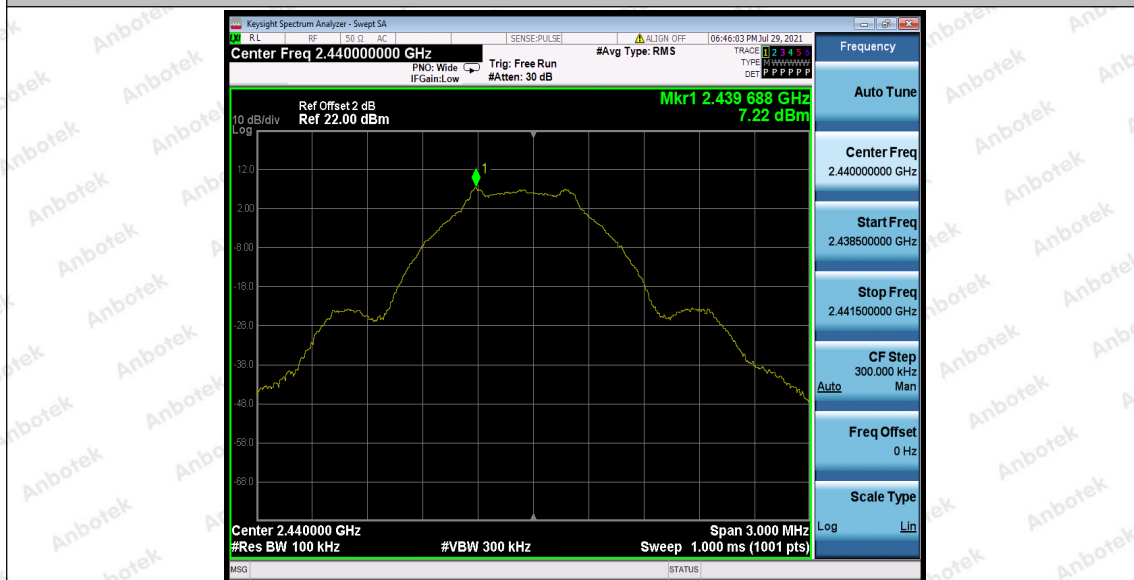
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	7.28	7.28	---	PASS
			30~1000	7.28	-67.82	<=-12.72	PASS
			1000~26500	7.28	-48.72	<=-12.72	PASS
		2440	Reference	7.22	7.22	---	PASS
			30~1000	7.22	-68.39	<=-12.78	PASS
			1000~26500	7.22	-51.86	<=-12.78	PASS
		2480	Reference	6.67	6.67	---	PASS
			30~1000	6.67	-68.5	<=-13.33	PASS
			1000~26500	6.67	-52.96	<=-13.33	PASS
BLE_2M	Ant1	2402	Reference	6.03	6.03	---	PASS
			30~1000	6.03	-55.4	<=-13.97	PASS
			1000~26500	6.03	-49.44	<=-13.97	PASS
		2440	Reference	5.95	5.95	---	PASS
			30~1000	5.95	-67.6	<=-14.05	PASS
			1000~26500	5.95	-52.83	<=-14.05	PASS
		2480	Reference	5.68	5.68	---	PASS
			30~1000	5.68	-68.58	<=-14.32	PASS
			1000~26500	5.68	-52.99	<=-14.32	PASS

Test Graphs

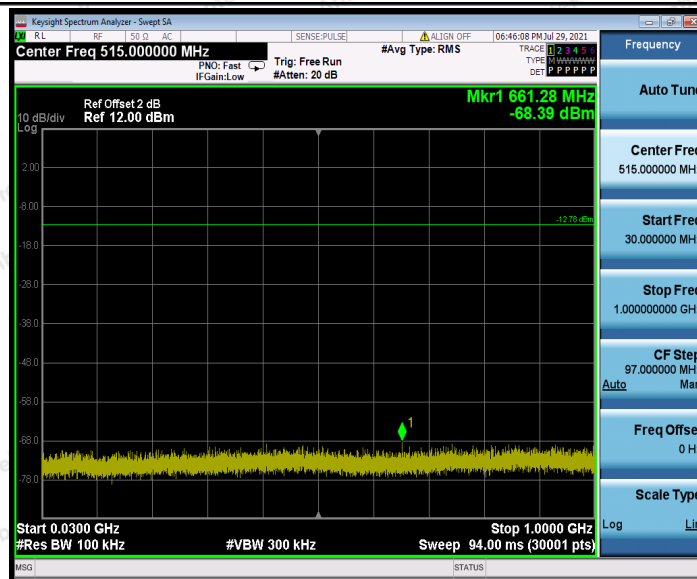




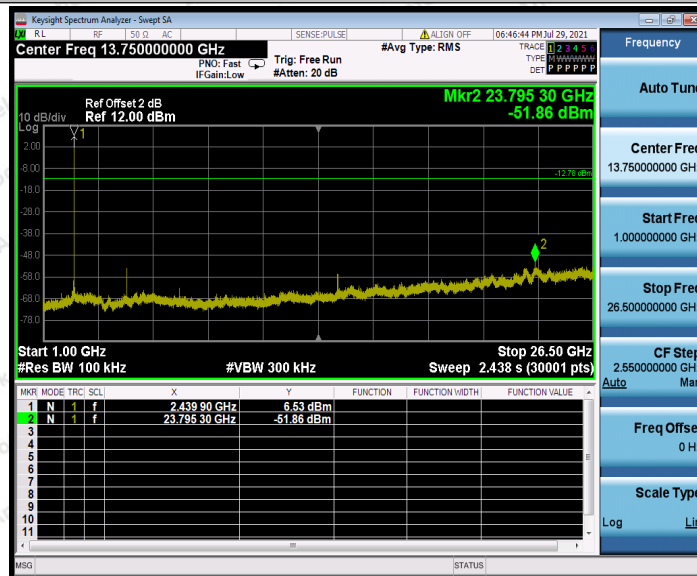
BLE_1M_Ant1_2440_0~Reference



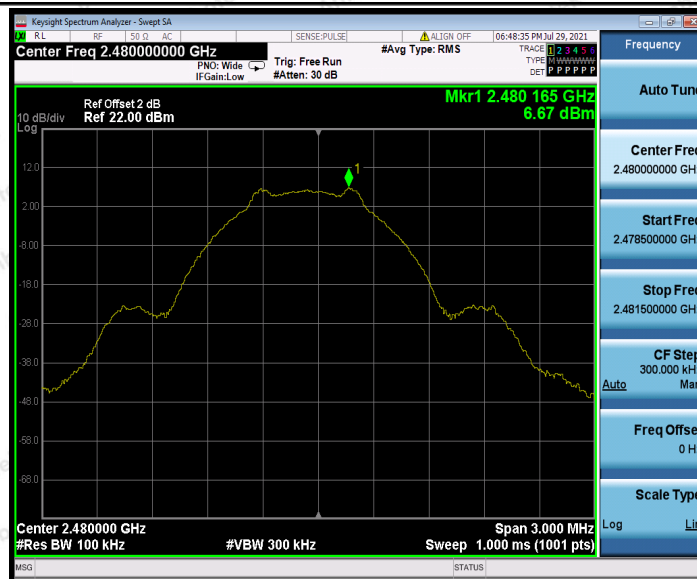
BLE_1M_Ant1_2440_30~1000



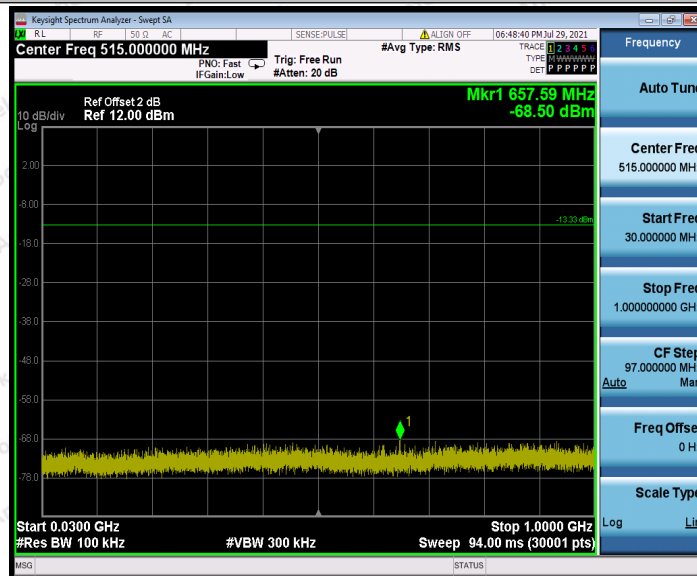
BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



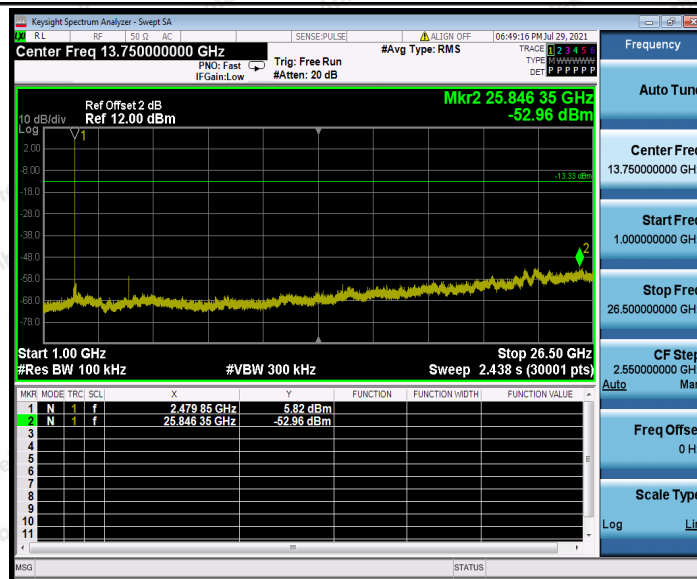
BLE_1M_Ant1_2480_1000~26500

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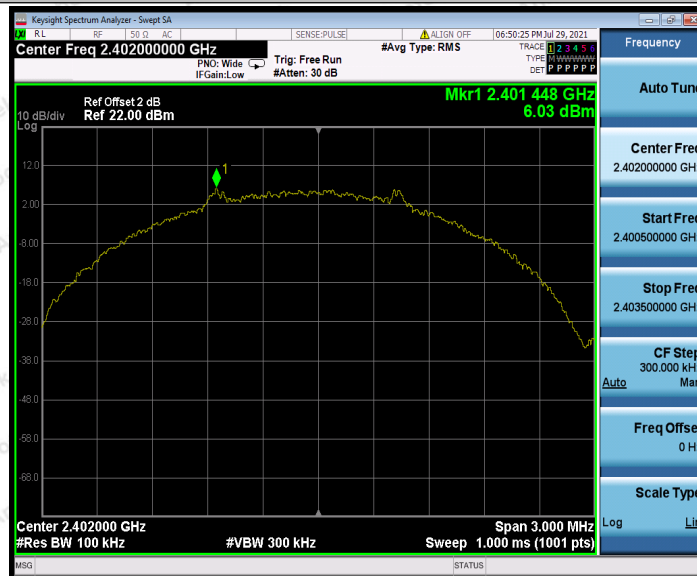
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BLE_2M_Ant1_2402_0~Reference



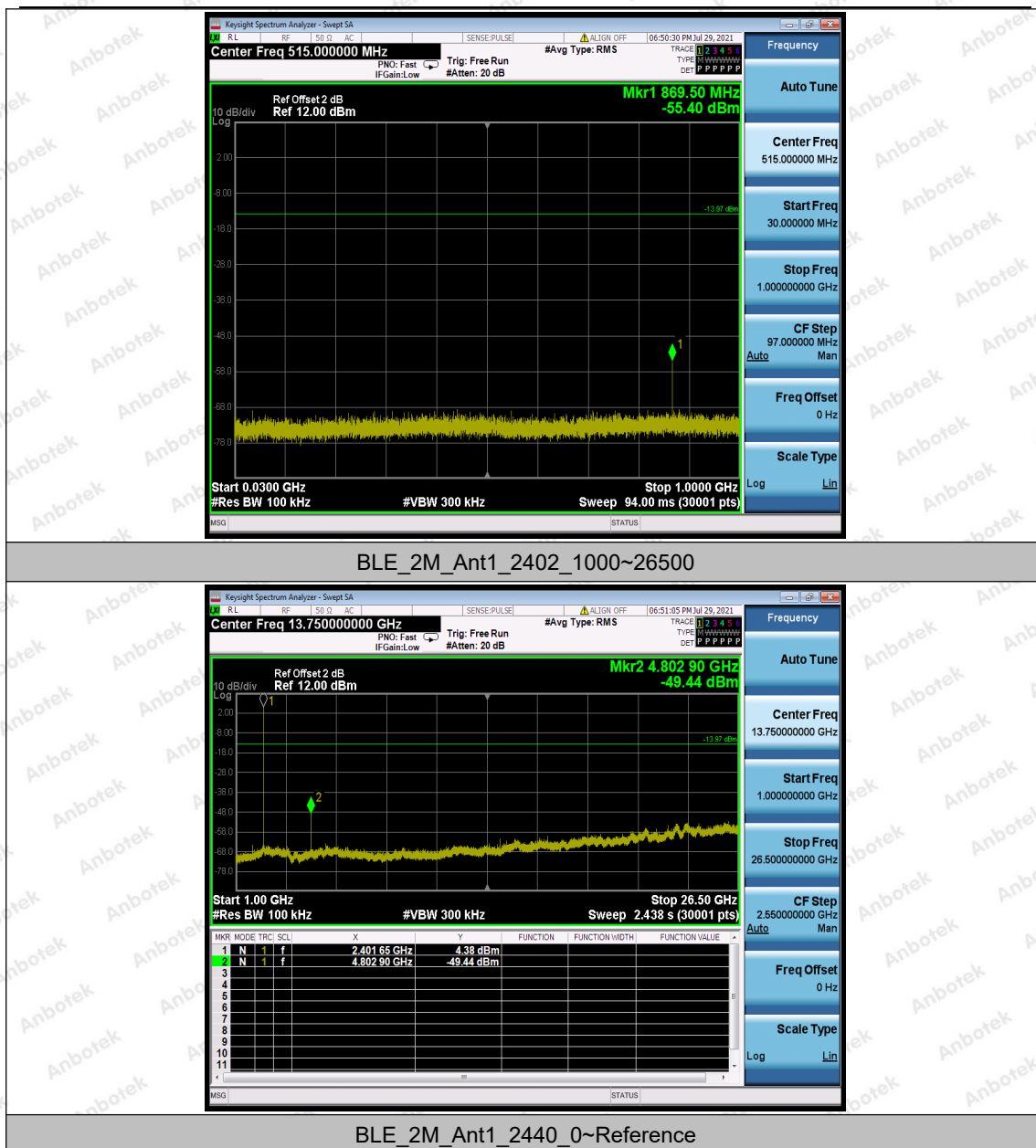
BLE_2M_Ant1_2402_30~1000

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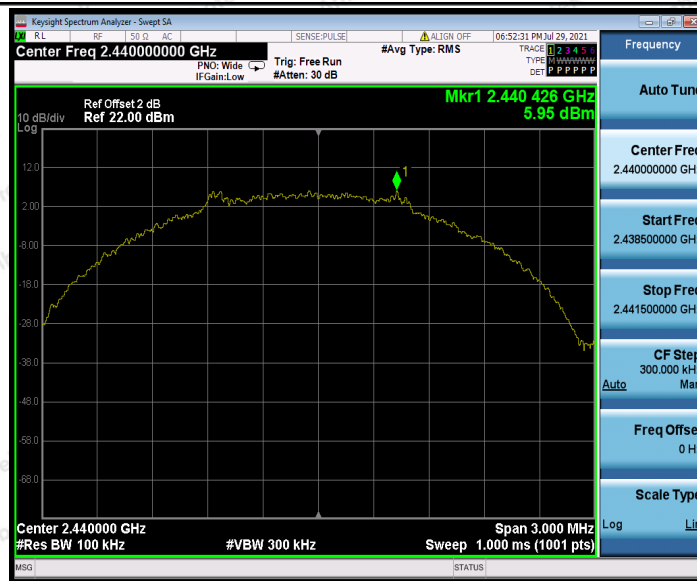
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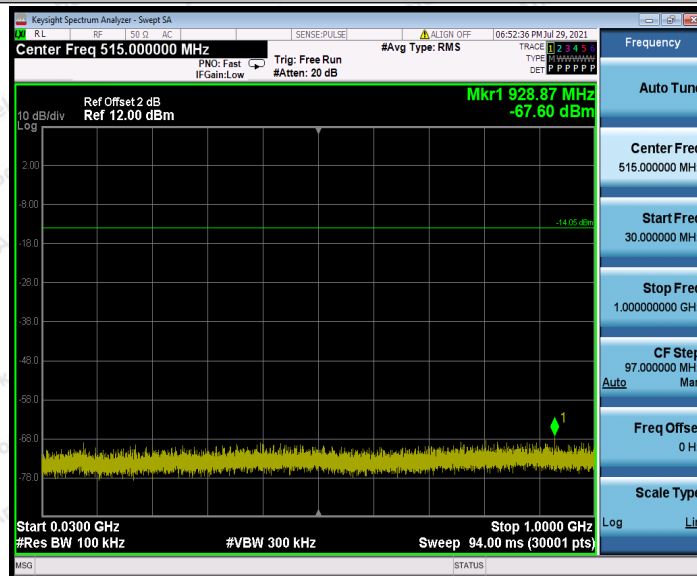
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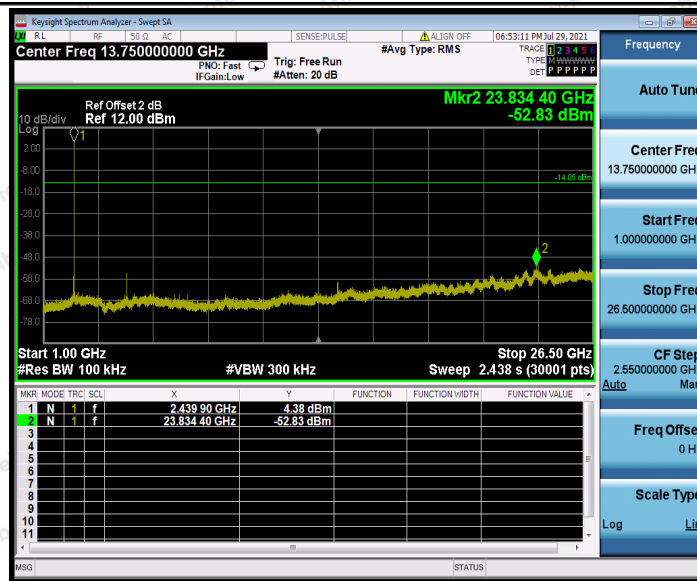
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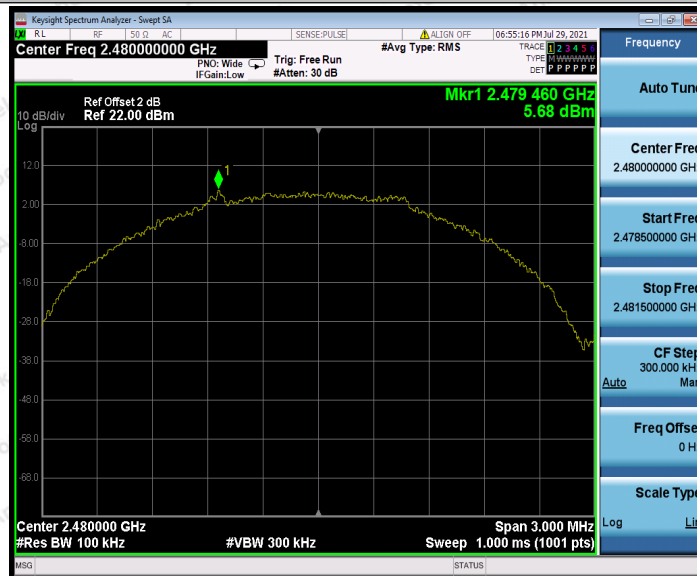
BLE_2M_Ant1_2440_30~1000



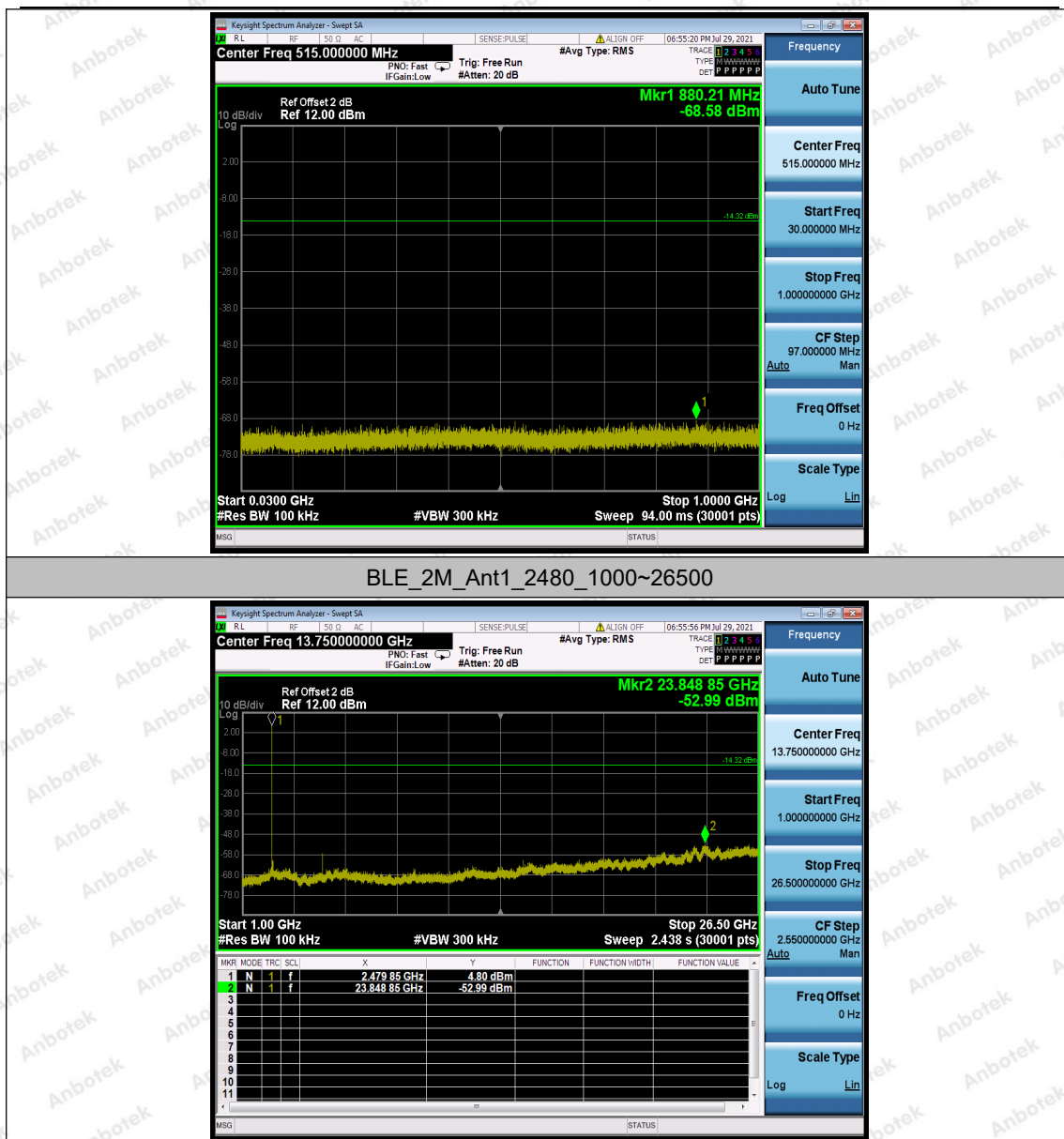
BLE_2M_Ant1_2440_1000~26500



BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



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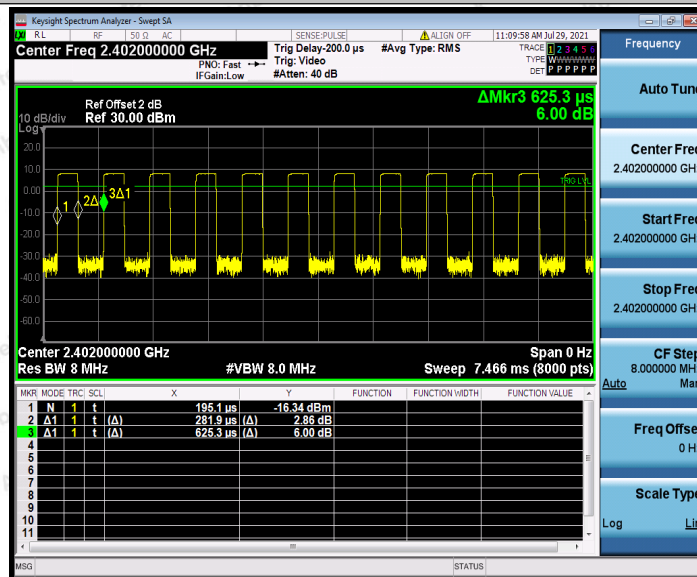
Appendix G: Duty Cycle

Test Result

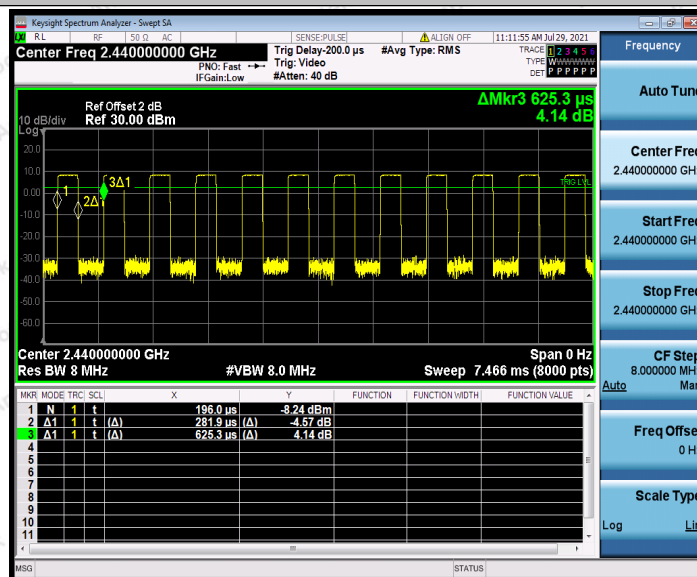
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.28	0.63	0.4444	44.44	3.52	---	PASS
		2440	0.28	0.63	0.4444	44.44	3.52	---	PASS
		2480	0.28	0.63	0.4444	44.44	3.52	---	PASS
BLE_2M	Ant1	2402	0.17	0.63	0.2698	26.98	5.69	---	PASS
		2440	0.17	0.63	0.2698	26.98	5.69	---	PASS
		2480	0.17	0.63	0.2698	26.98	5.69	---	PASS

Test Graphs

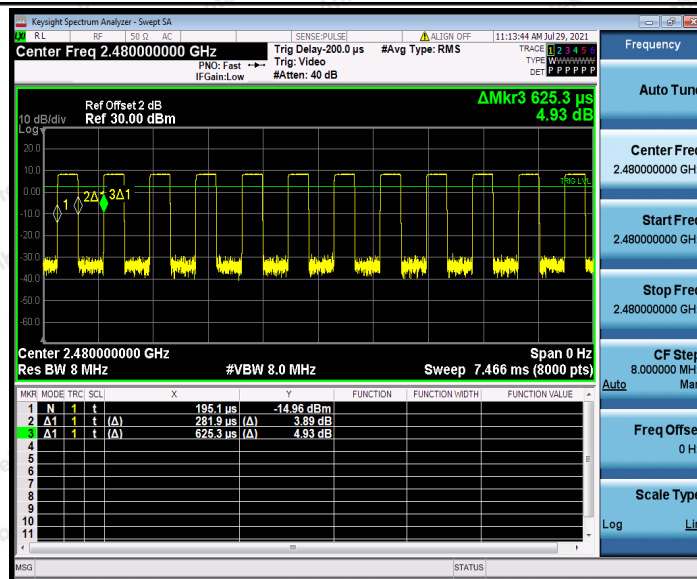
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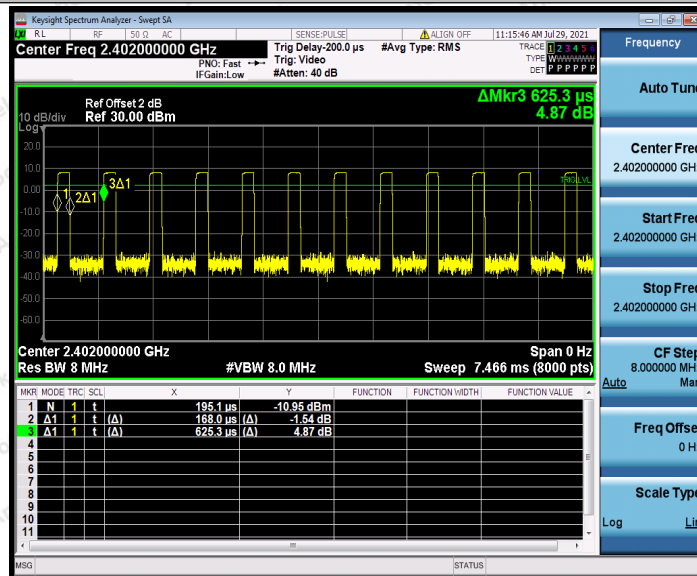
BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



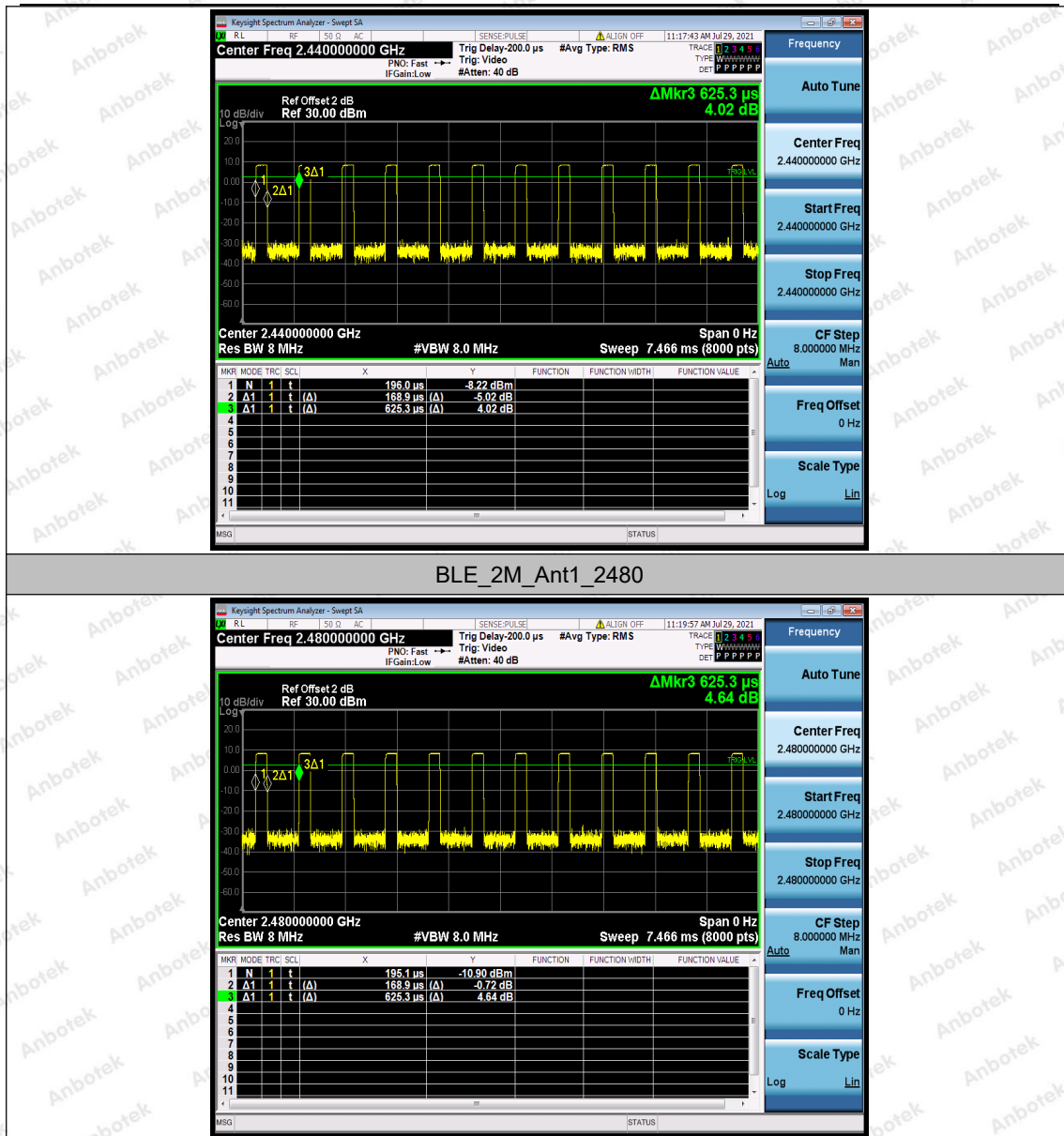
BLE_2M_Ant1_2440

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