

Appendix Test Data

Report No.:	18220WC20116002	Test Sample No.:	1-2-2
Start Test Date:	2022.5.30	Finish Test Date:	2022.6.24
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3℃	Relative Humidity:	57.2 %
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.668	2401.664	2402.332	≥0.5	PASS
		2440	0.680	2439.648	2440.328	≥0.5	PASS
		2480	0.660	2479.664	2480.324	≥0.5	PASS
BLE_2M	Ant1	2402	1.144	2401.408	2402.552	≥0.5	PASS
		2440	1.132	2439.416	2440.548	≥0.5	PASS
		2480	1.148	2479.400	2480.548	≥0.5	PASS

Test Graphs

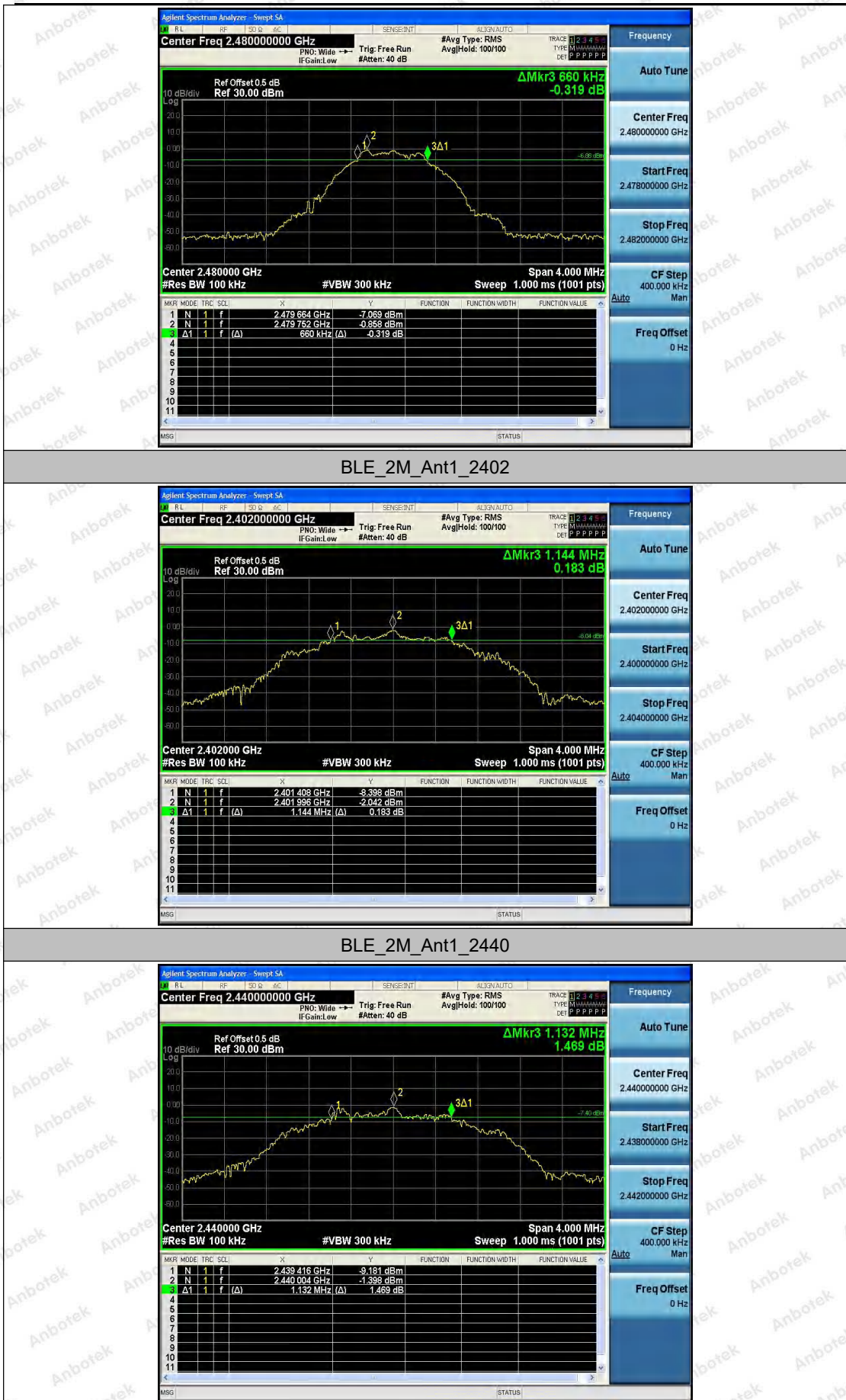
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0169	2401.491	2402.508	---	PASS
		2440	1.0186	2439.489	2440.508	---	PASS
		2480	1.0086	2479.494	2480.503	---	PASS
BLE_2M	Ant1	2402	2.0591	2400.981	2403.040	---	PASS
		2440	2.0249	2439.001	2441.026	---	PASS
		2480	2.0358	2478.993	2481.029	---	PASS

Test Graphs



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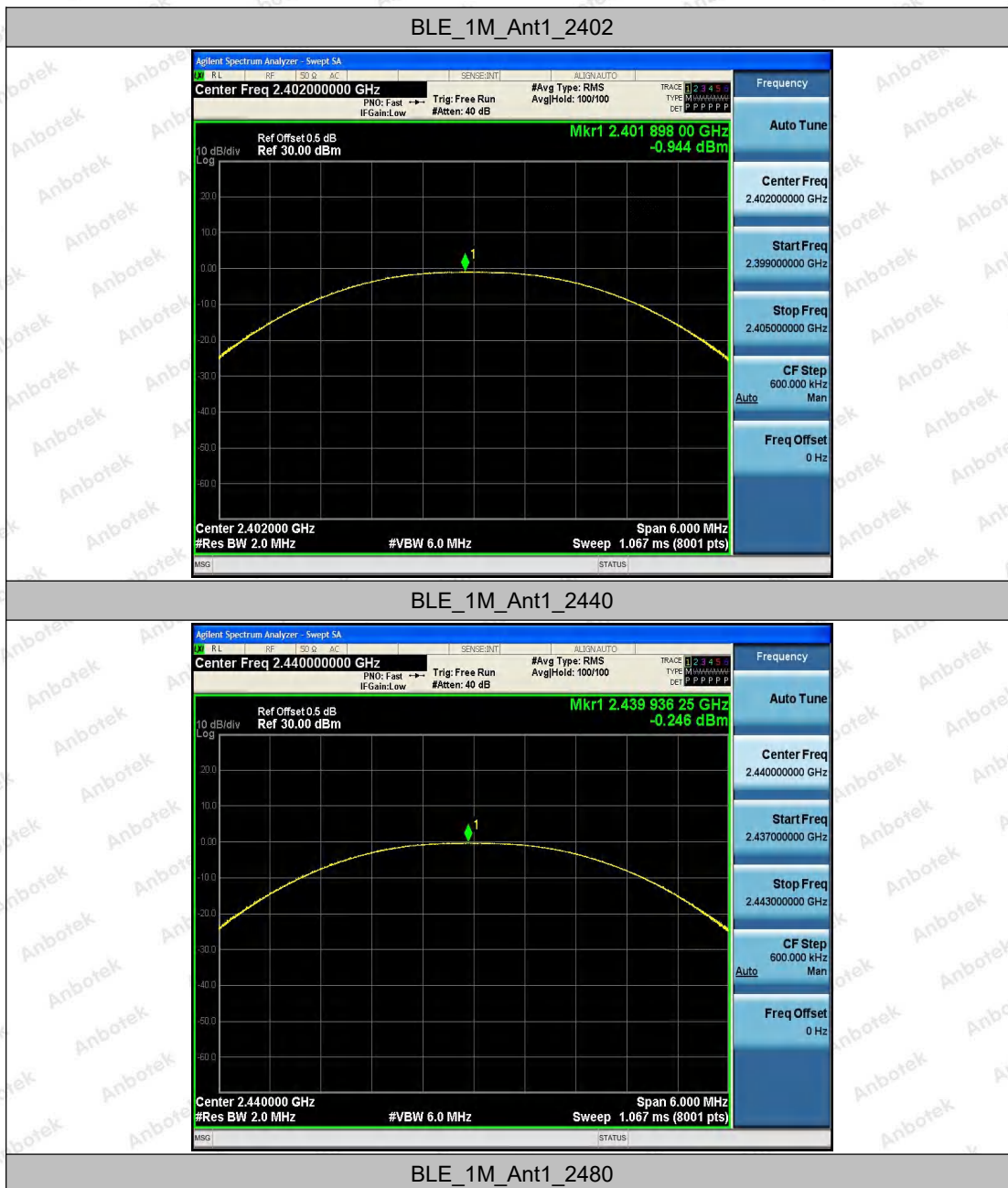
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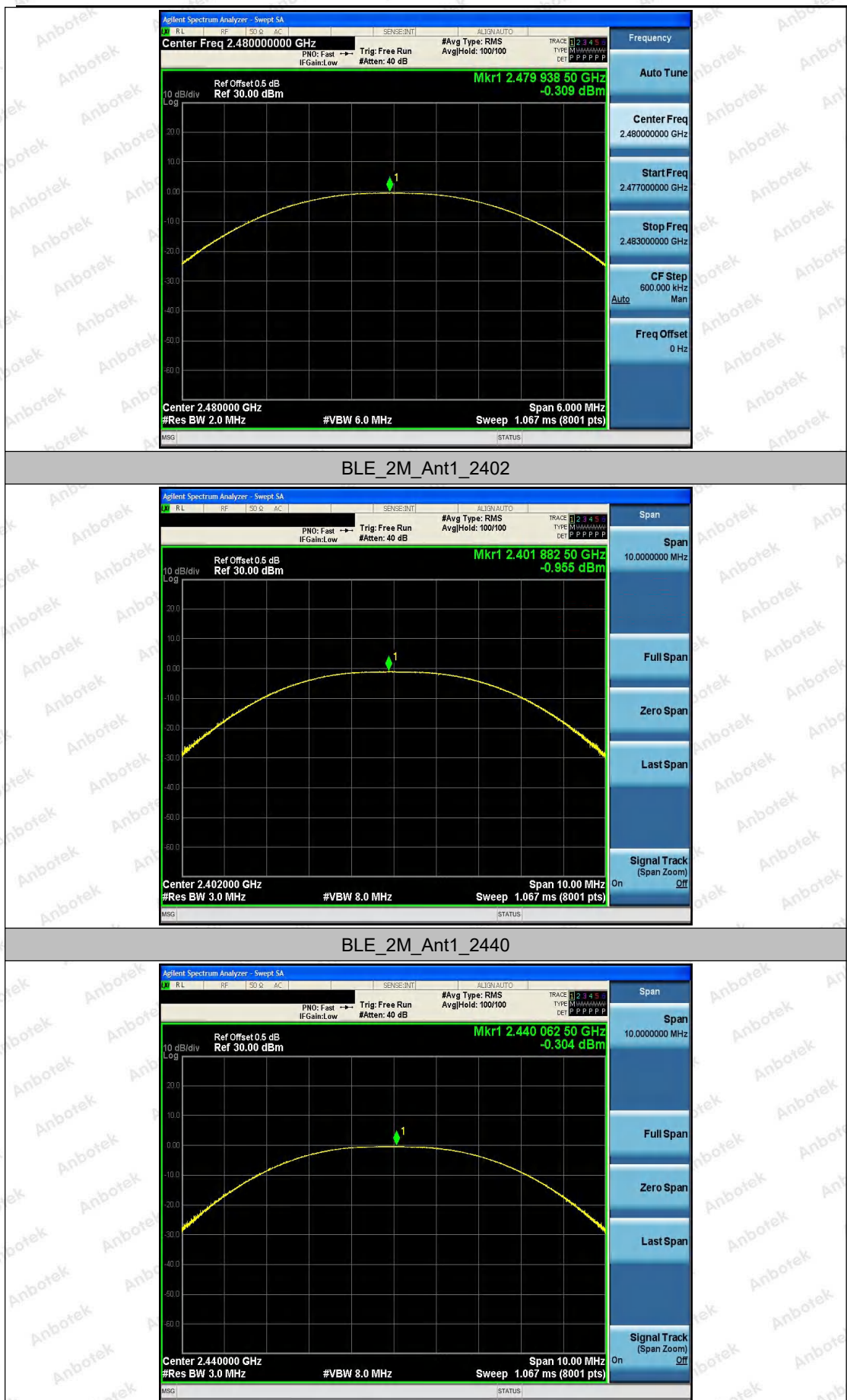
Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.94	≤30	PASS
		2440	-0.25	≤30	PASS
		2480	-0.31	≤30	PASS
BLE_2M	Ant1	2402	-0.96	≤30	PASS
		2440	-0.3	≤30	PASS
		2480	-0.31	≤30	PASS

Test Graphs



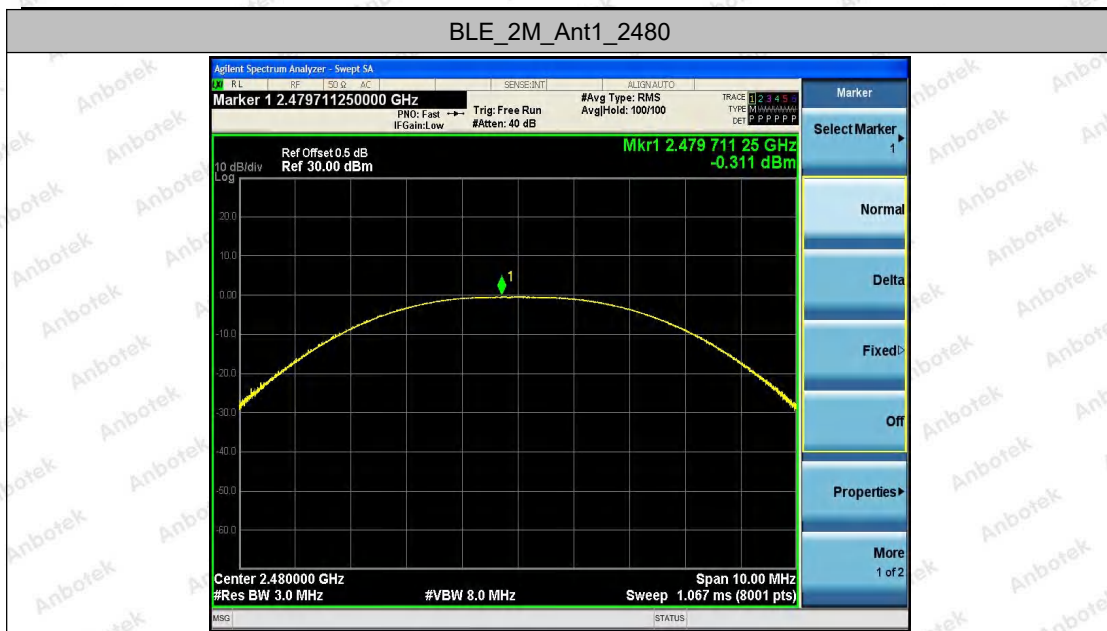


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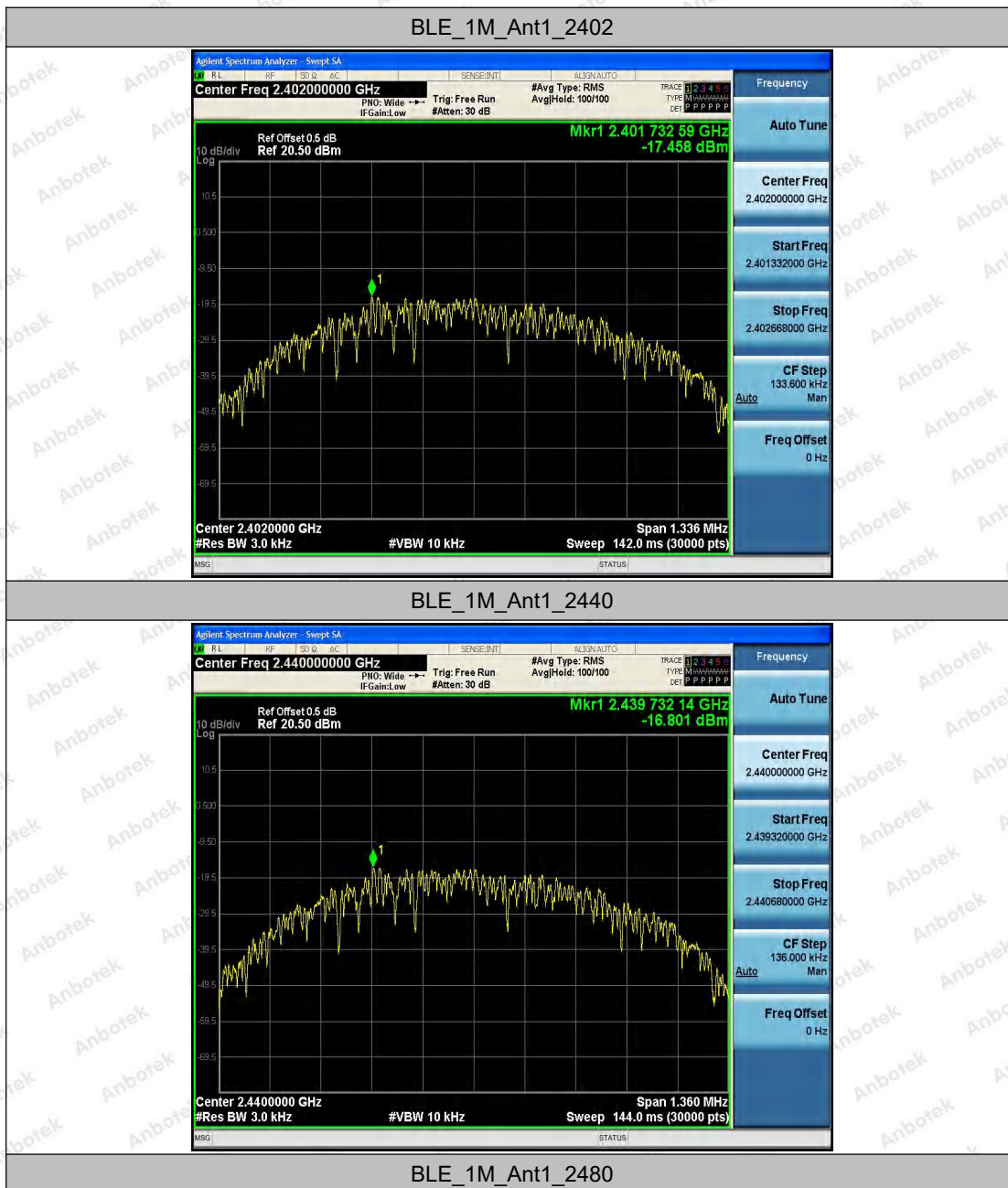
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Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-17.46	≤8	PASS
		2440	-16.8	≤8	PASS
		2480	-16.89	≤8	PASS
BLE_2M	Ant1	2402	-20.47	≤8	PASS
		2440	-19.82	≤8	PASS
		2480	-19.87	≤8	PASS

Test Graphs



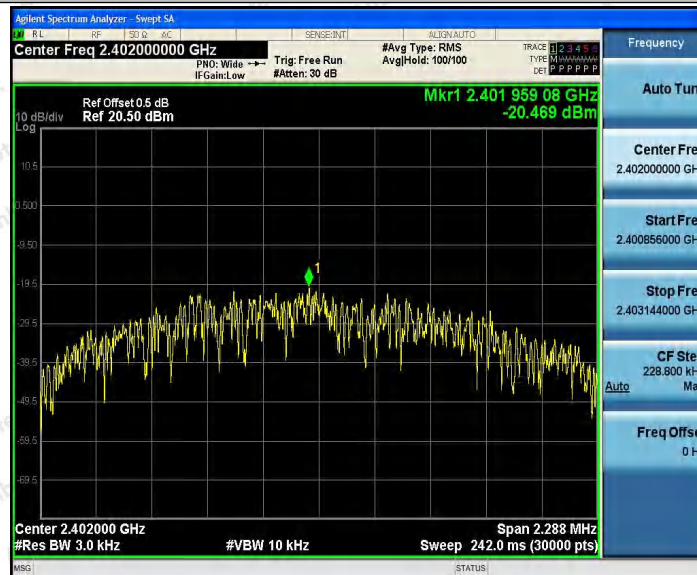
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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

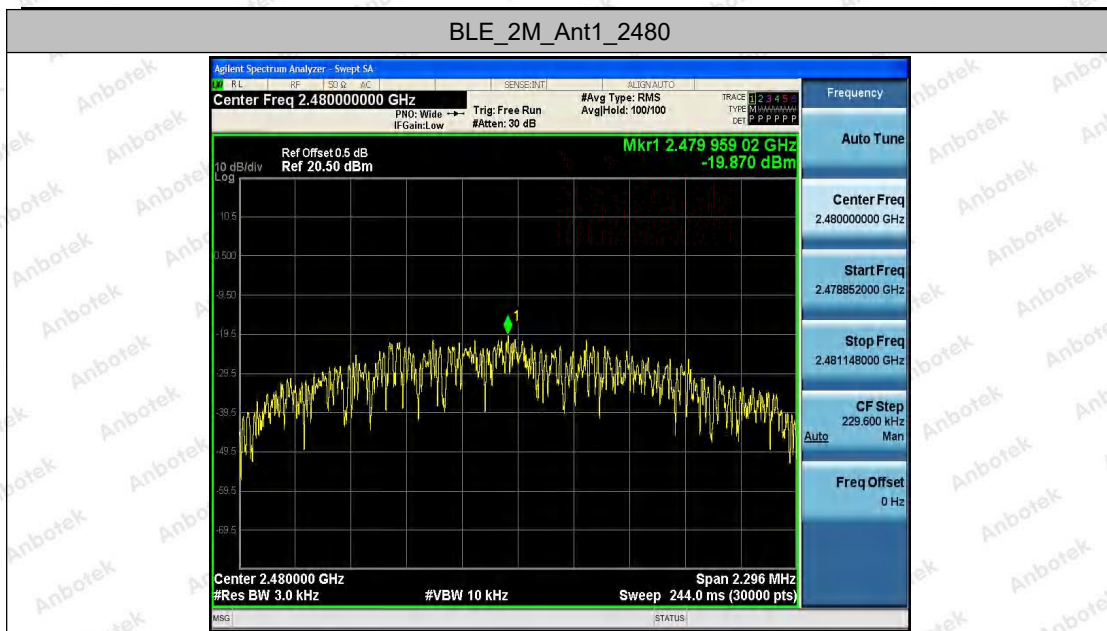


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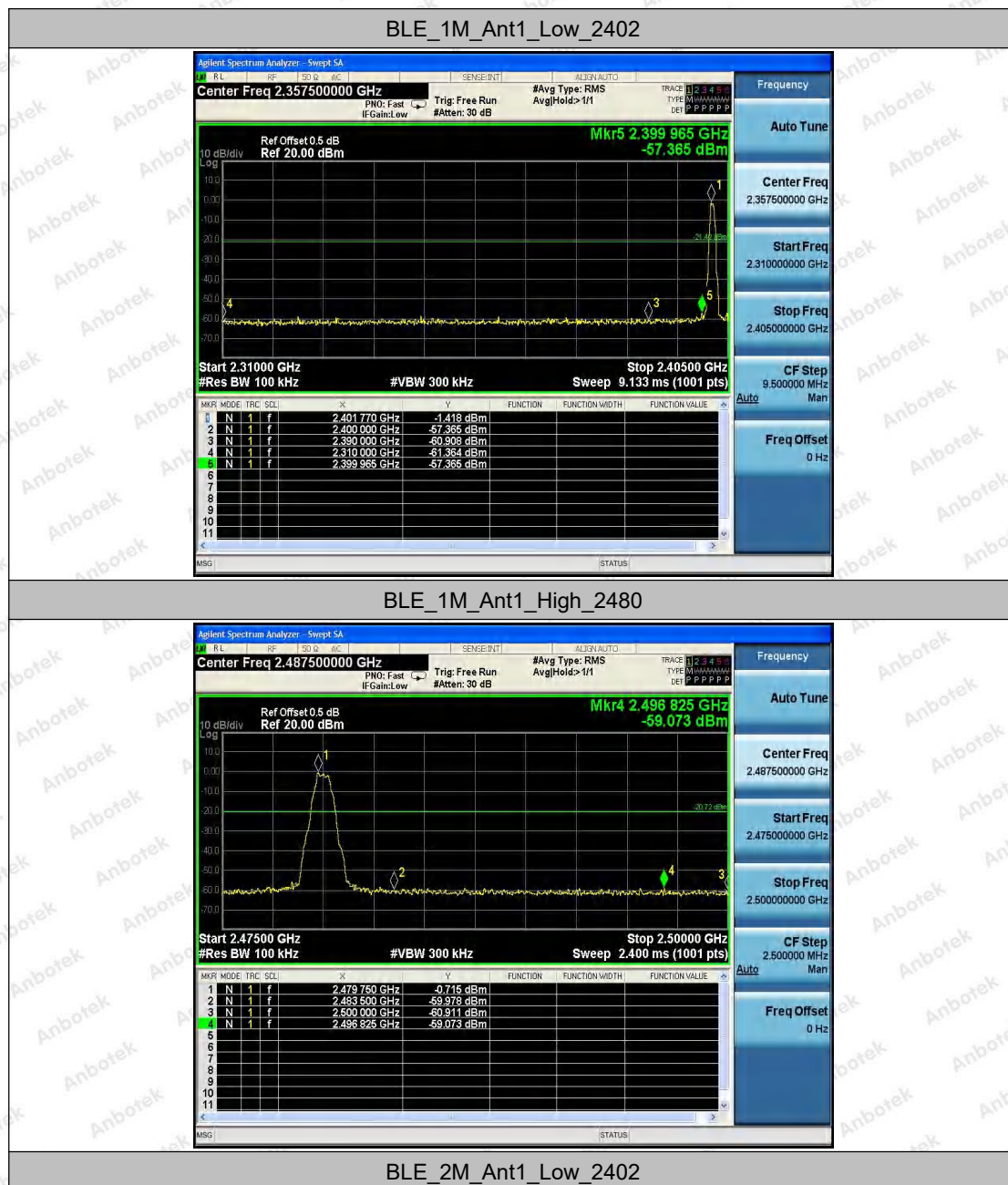
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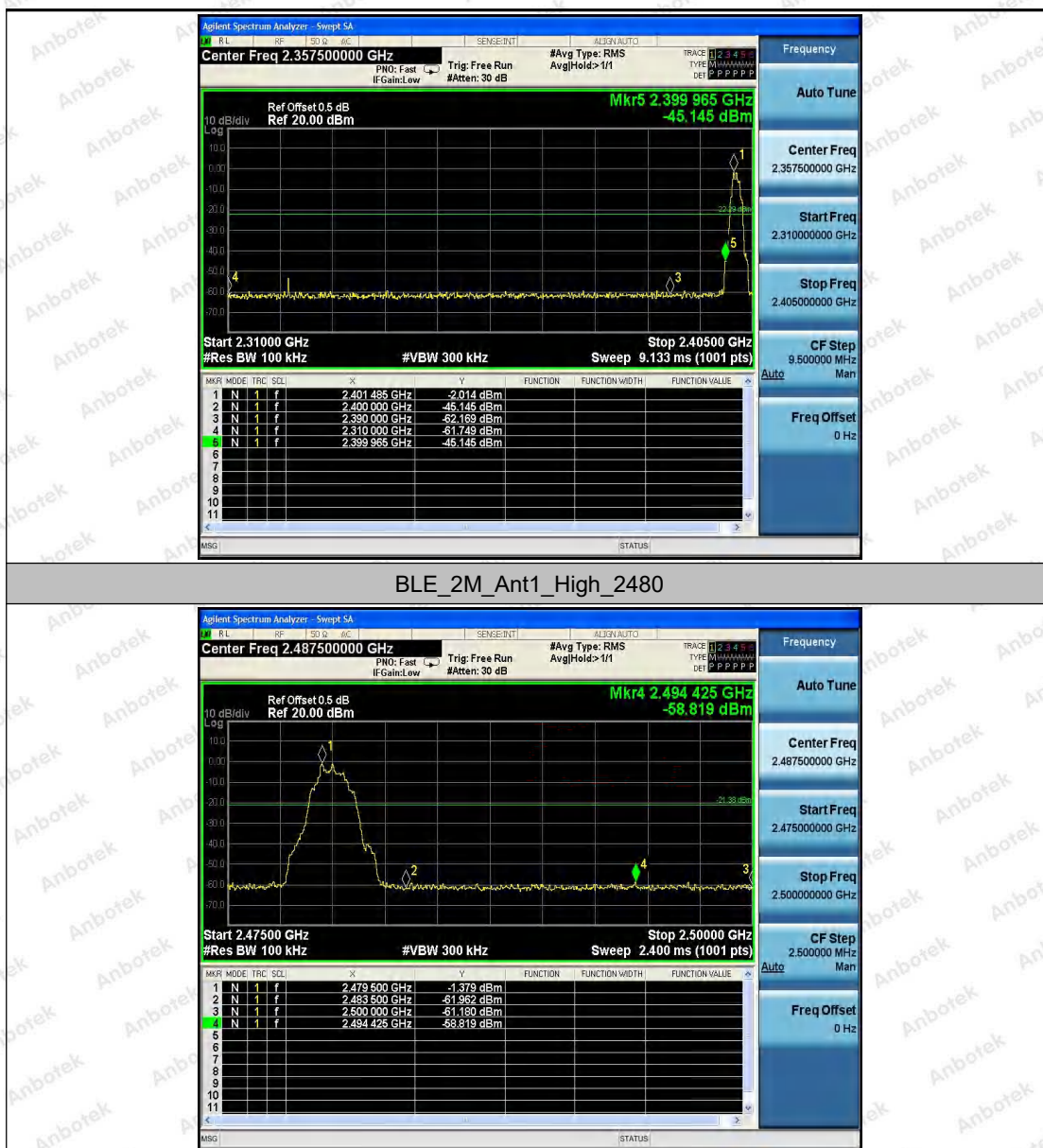
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch Name	Channel	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.42	-57.37	≤-21.42	PASS
		High	2480	-0.72	-59.07	≤-20.72	PASS
BLE_2M	Ant1	Low	2402	-2.29	-45.15	≤-22.29	PASS
		High	2480	-1.38	-58.82	≤-21.38	PASS

Test Graphs





Appendix F: Conducted Spurious Emission

Test Result

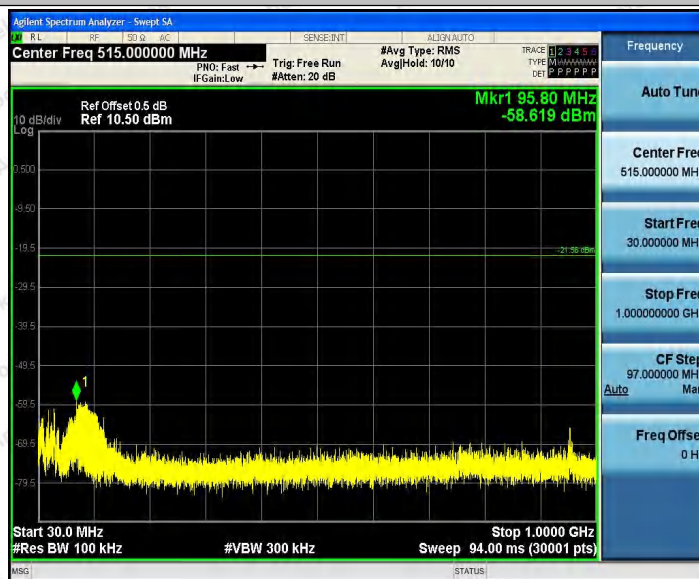
Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-1.56	-1.56	---	PASS
			30~1000	-1.56	-58.62	≤-21.56	PASS
			1000~26500	-1.56	-34.81	≤-21.56	PASS
		2440	Reference	-0.72	-0.72	---	PASS
			30~1000	-0.72	-58.43	≤-20.72	PASS
			1000~26500	-0.72	-34.48	≤-20.72	PASS
		2480	Reference	-0.77	-0.77	---	PASS
			30~1000	-0.77	-56.67	≤-20.77	PASS
			1000~26500	-0.77	-33.61	≤-20.77	PASS
BLE_2M	Ant1	2402	Reference	-2.18	-2.18	---	PASS
			30~1000	-2.18	-57.7	≤-22.18	PASS
			1000~26500	-2.18	-37.2	≤-22.18	PASS
		2440	Reference	-1.38	-1.38	---	PASS
			30~1000	-1.38	-57.71	≤-21.38	PASS
			1000~26500	-1.38	-32.28	≤-21.38	PASS
		2480	Reference	-1.43	-1.43	---	PASS
			30~1000	-1.43	-58.72	≤-21.43	PASS
			1000~26500	-1.43	-36.28	≤-21.43	PASS

Test Graphs

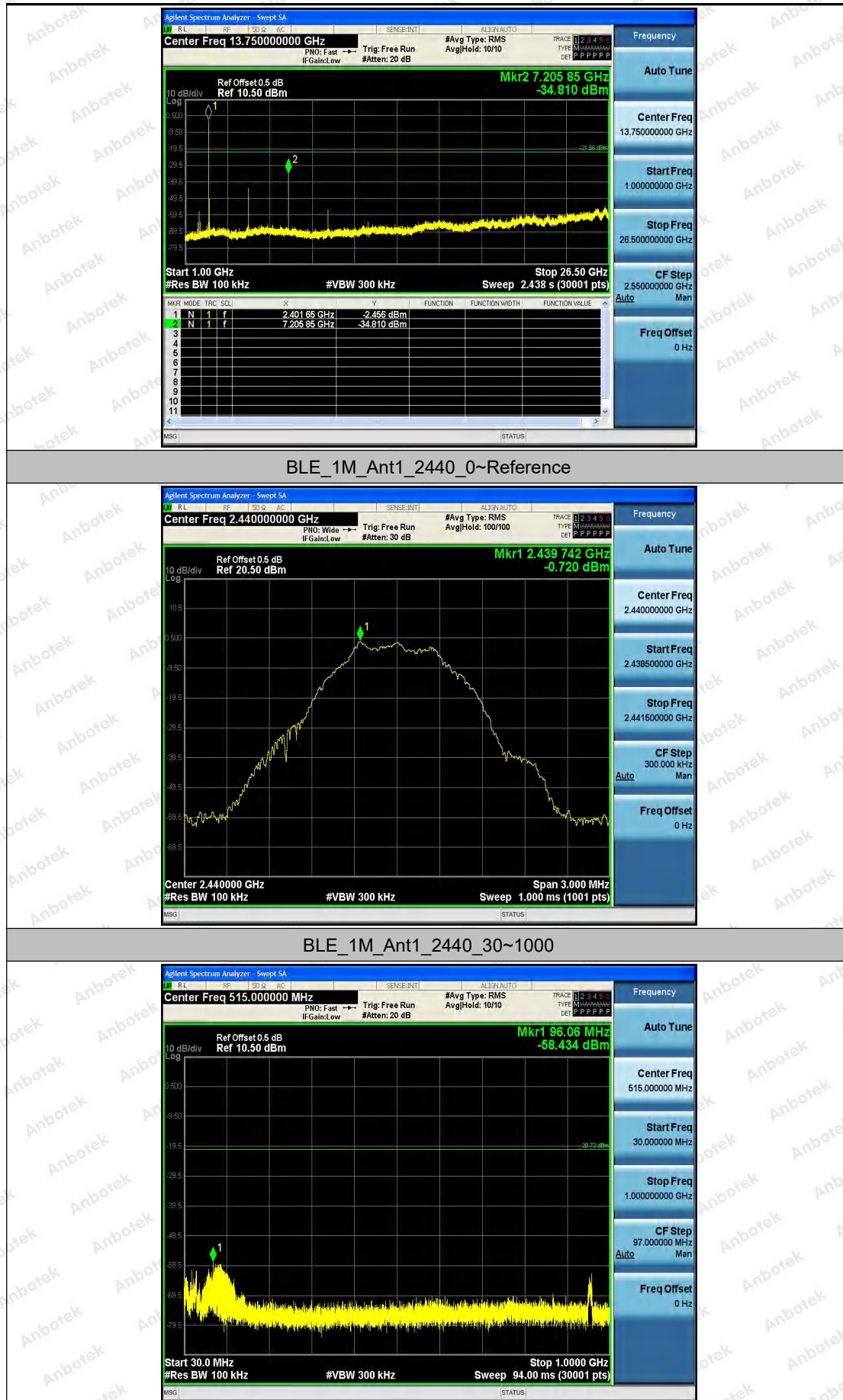
BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500



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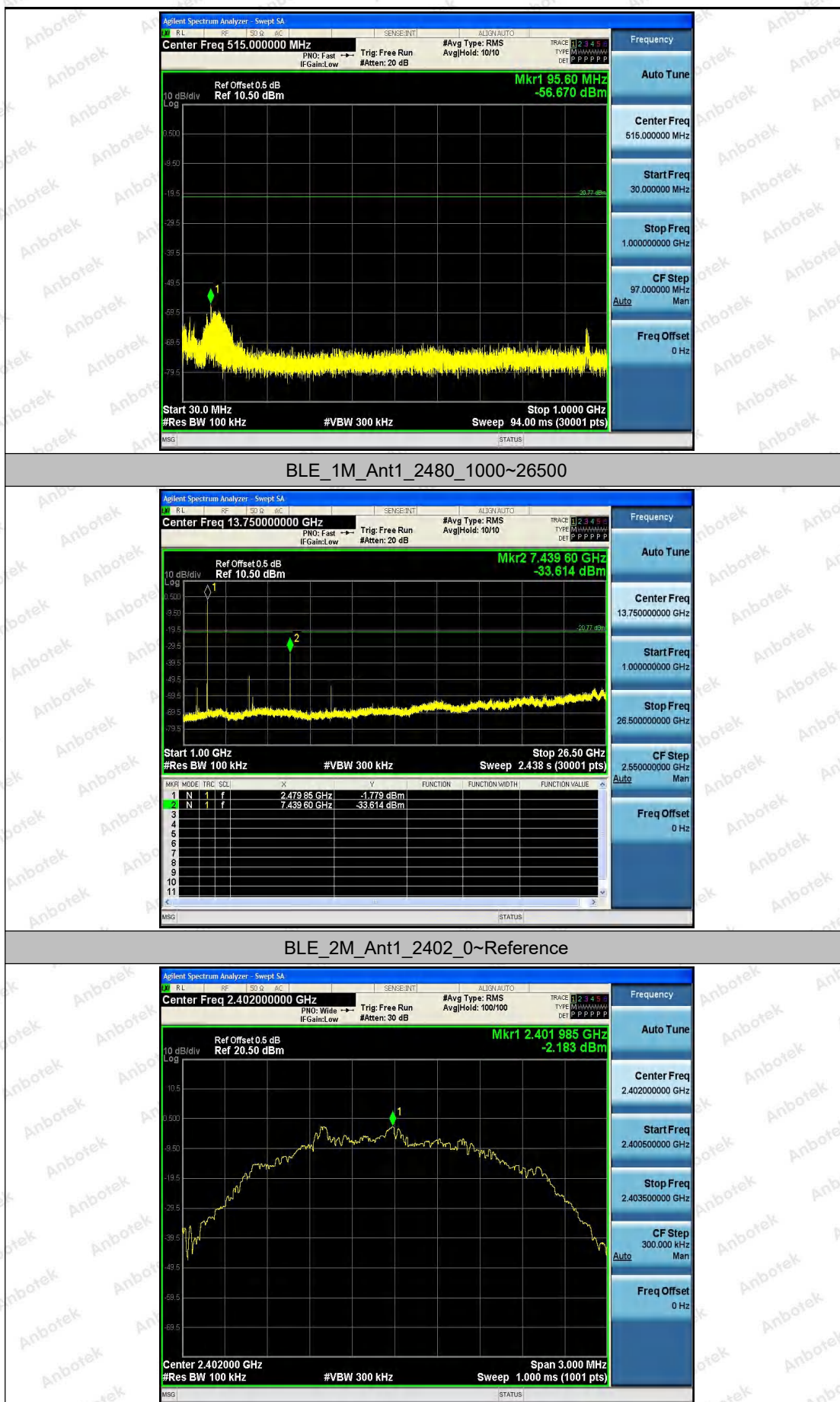
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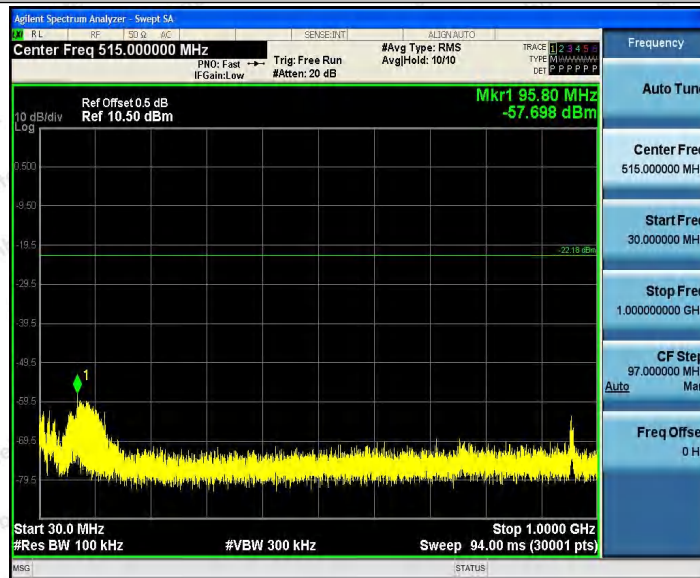


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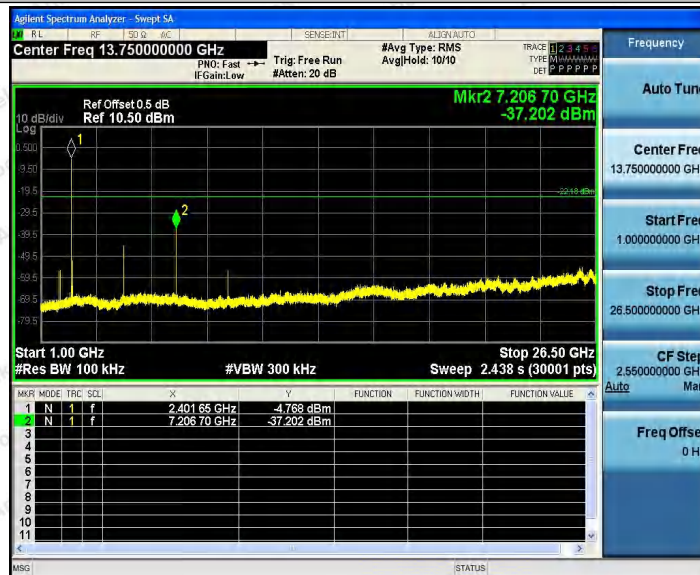
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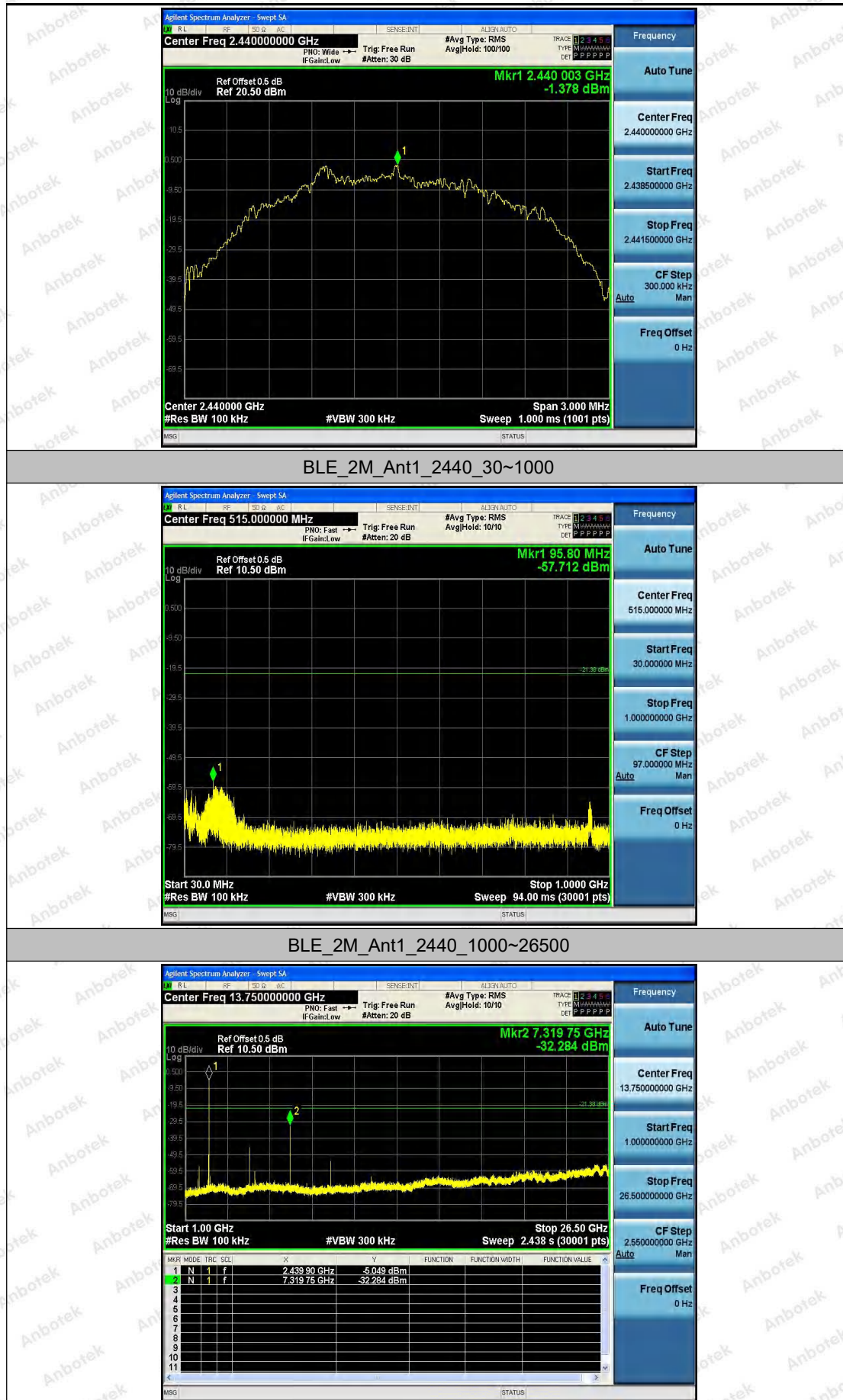
BLE_2M_Ant1_2402_30~1000



BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference



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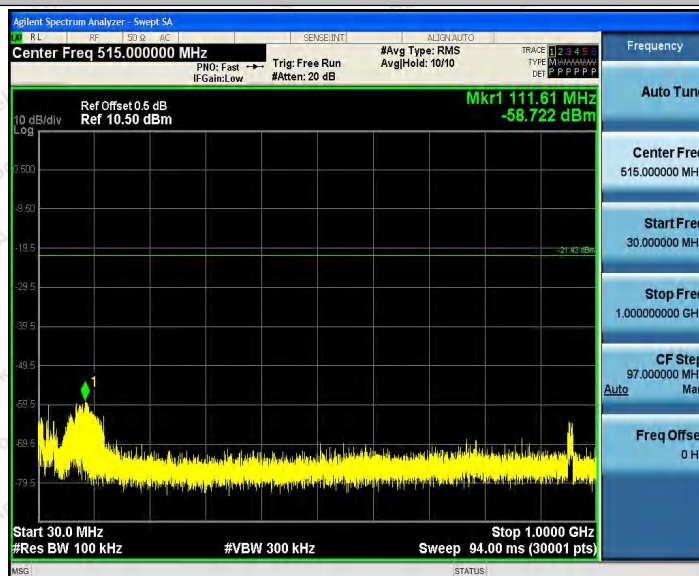
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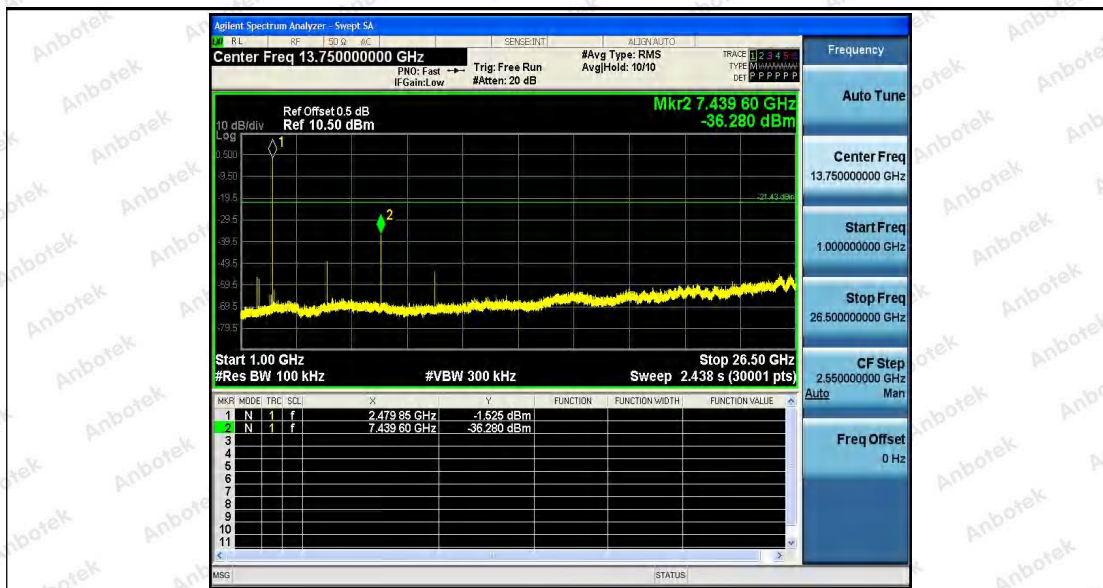
BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



BLE_2M_Ant1_2480_1000~26500



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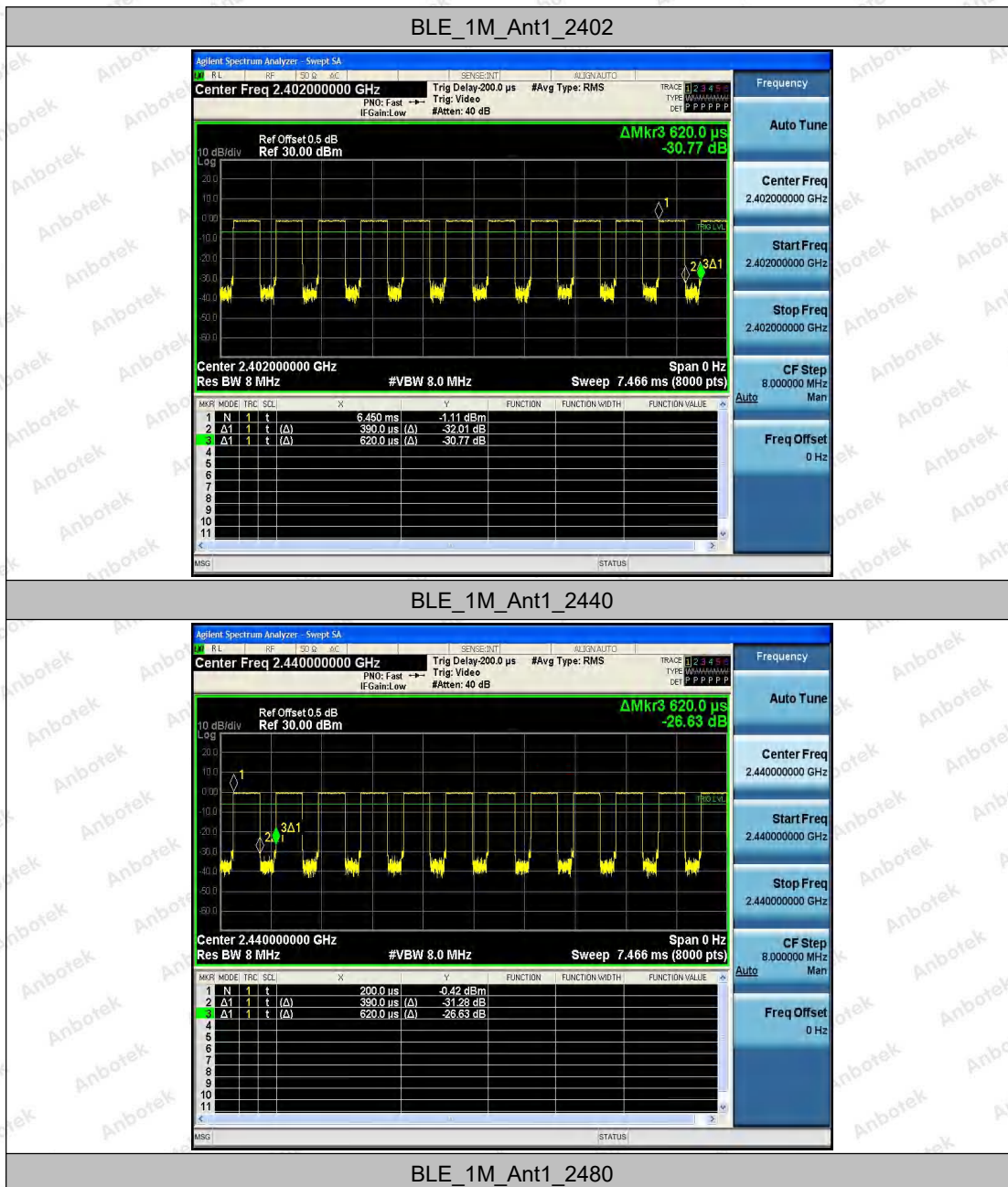
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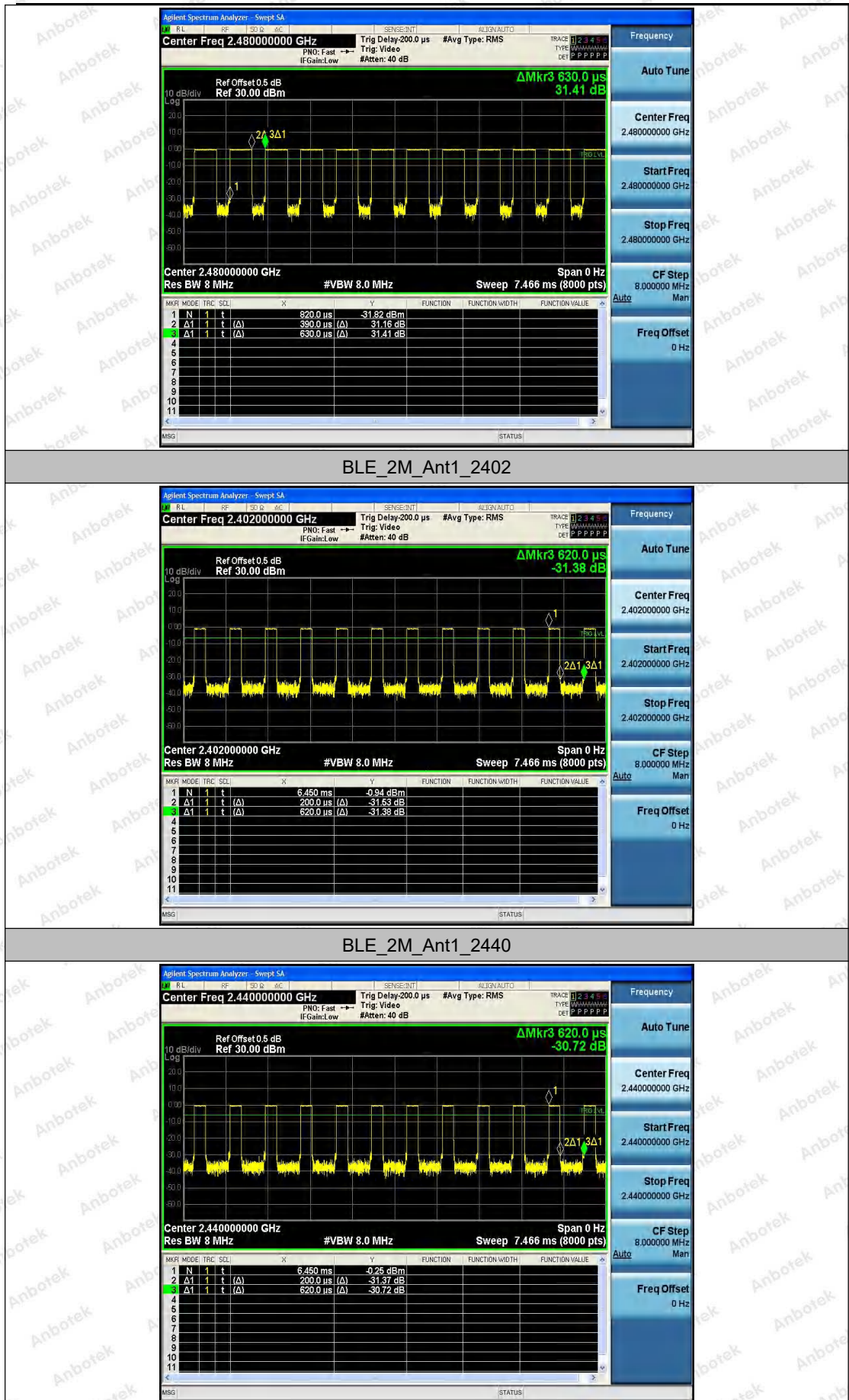
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	X Factor	Limit	Verdict
BLE_1M	Ant1	2402	0.39	0.62	0.6290	62.90	2.01	---	PASS
		2440	0.39	0.62	0.6290	62.90	2.01	---	PASS
		2480	0.39	0.63	0.6190	61.90	2.08	---	PASS
BLE_2M	Ant1	2402	0.20	0.62	0.3226	32.26	4.91	---	PASS
		2440	0.20	0.62	0.3226	32.26	4.91	---	PASS
		2480	0.20	0.62	0.3226	32.26	4.91	---	PASS

Test Graphs



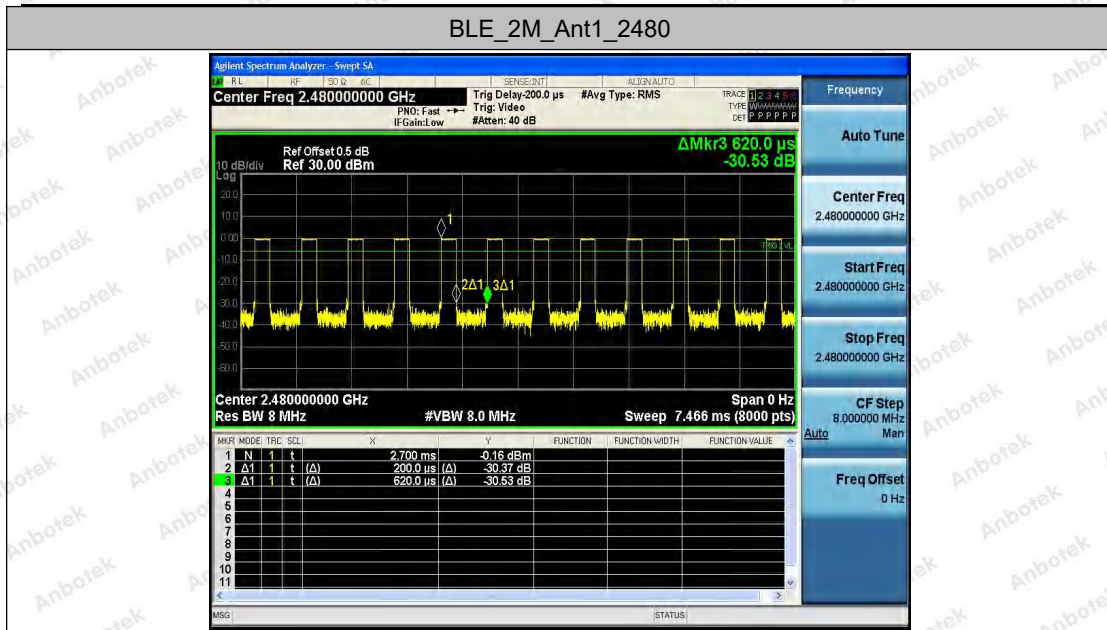


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