

Appendix Test Data

Report No.:	18220WC20158901	Test Sample No.:	1-2-2
Start Test Date:	2022.7.14	Finish Test Date:	2022.7.22
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	56.5 %
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	0.668	2401.660	2402.328	≥0.5	PASS
		2440	0.668	2439.672	2440.340	≥0.5	PASS
		2480	0.684	2479.660	2480.344	≥0.5	PASS
BLE_2M	Ant1	2402	1.116	2401.456	2402.572	≥0.5	PASS
		2440	1.112	2439.456	2440.568	≥0.5	PASS
		2480	1.108	2479.448	2480.556	≥0.5	PASS

Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



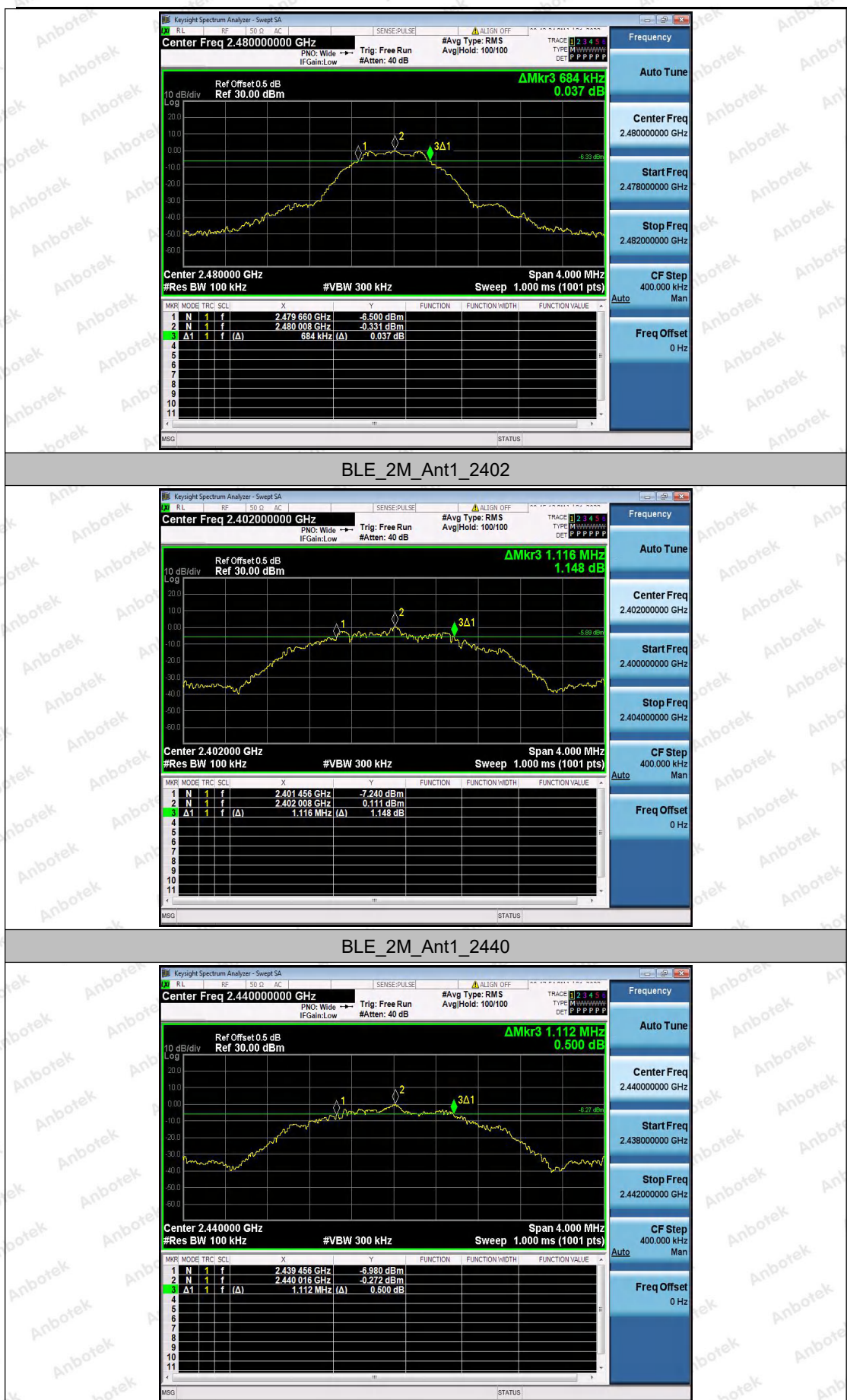
BLE_1M_Ant1_2480

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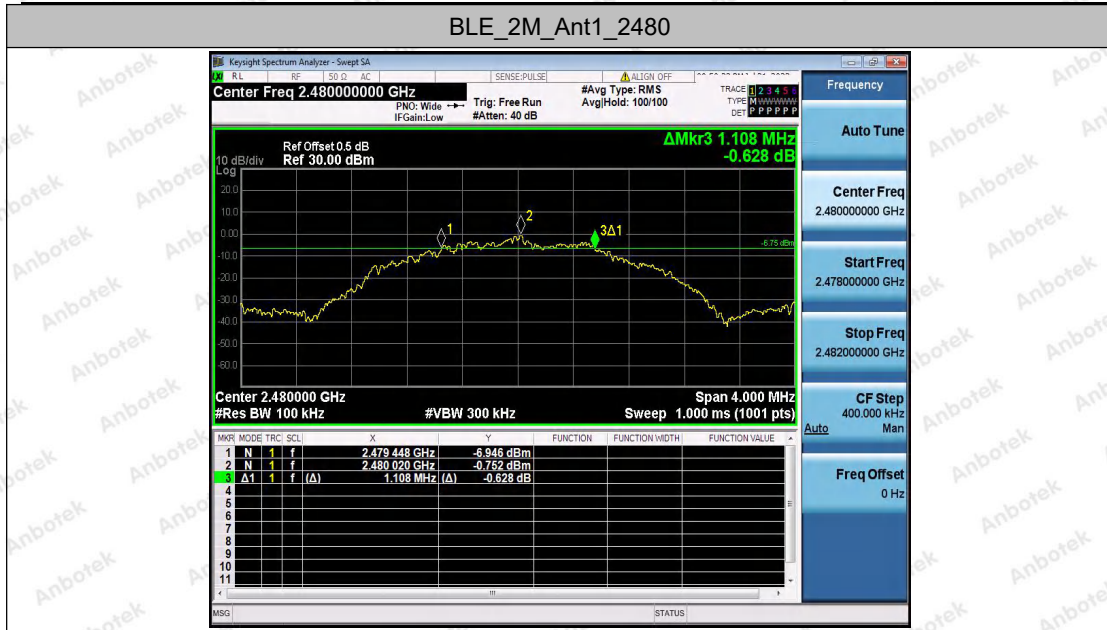


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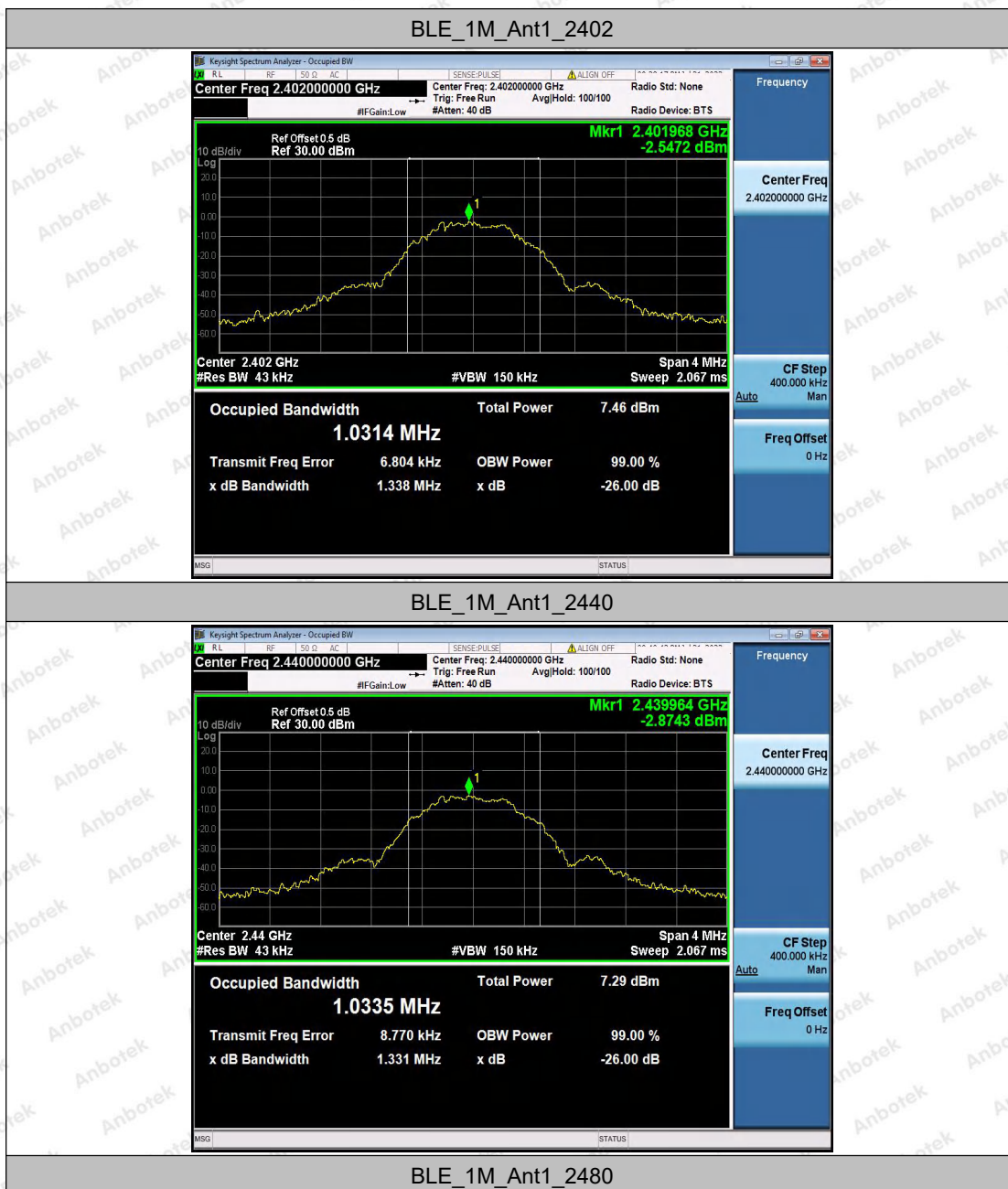
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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0314	2401.491	2402.523	---	PASS
		2440	1.0335	2439.492	2440.526	---	PASS
		2480	1.0357	2479.492	2480.528	---	PASS
BLE_2M	Ant1	2402	2.0926	2400.972	2403.064	---	PASS
		2440	2.0964	2438.970	2441.066	---	PASS
		2480	2.0939	2478.970	2481.064	---	PASS

Test Graphs

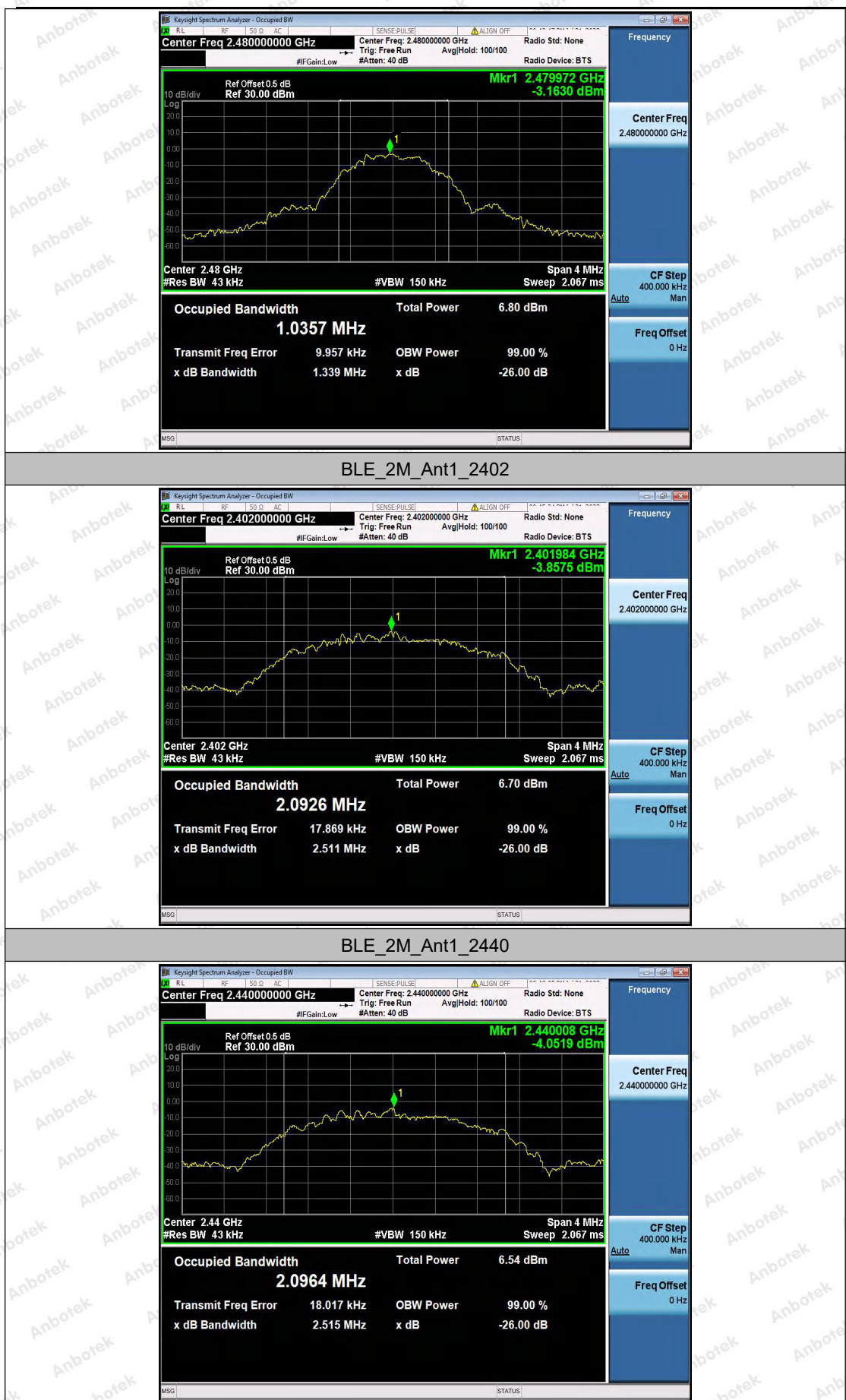


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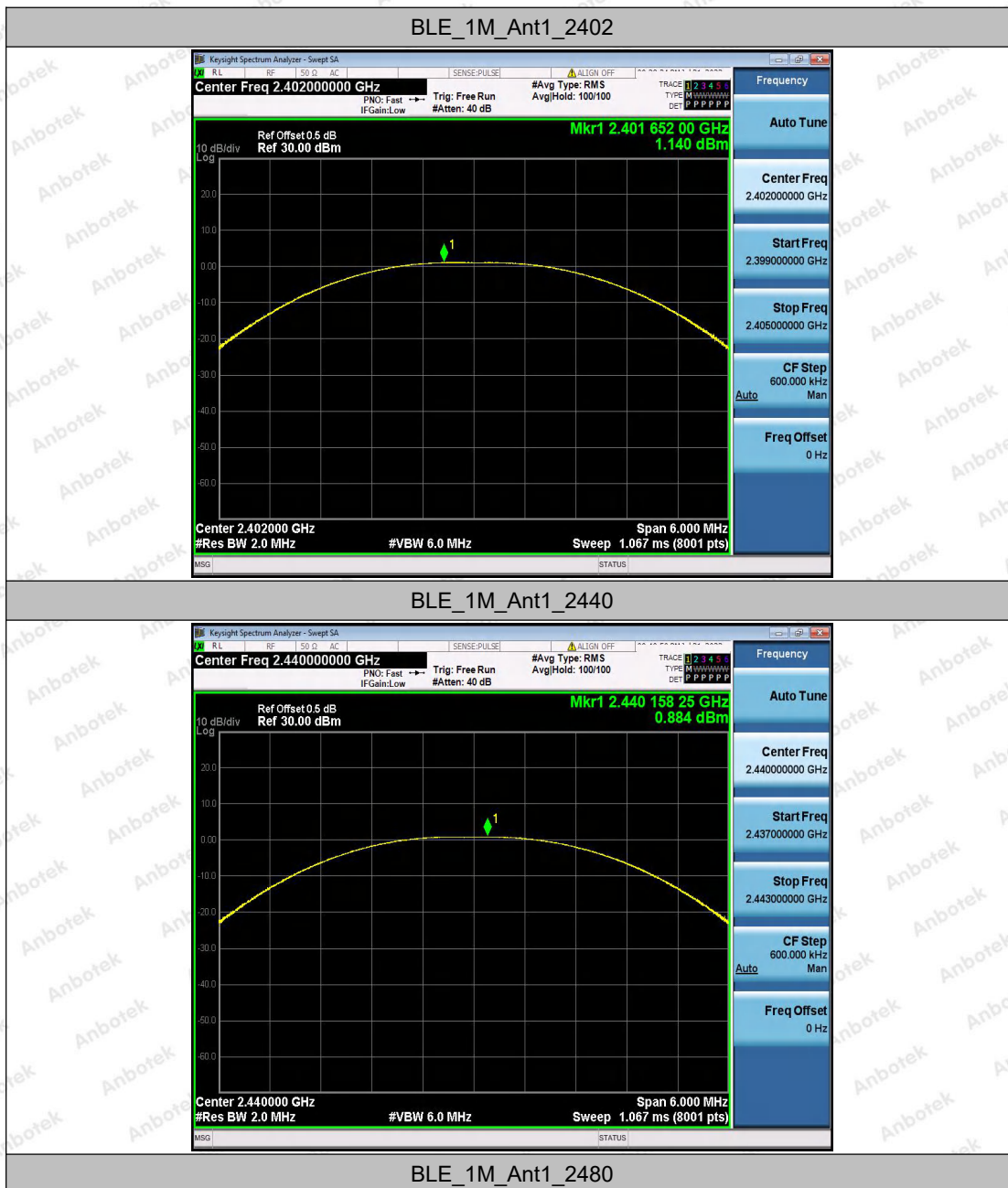
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.14	≤30	PASS
		2440	0.88	≤30	PASS
		2480	0.54	≤30	PASS
BLE_2M	Ant1	2402	1.22	≤30	PASS
		2440	0.83	≤30	PASS
		2480	0.54	≤30	PASS

Test Graphs

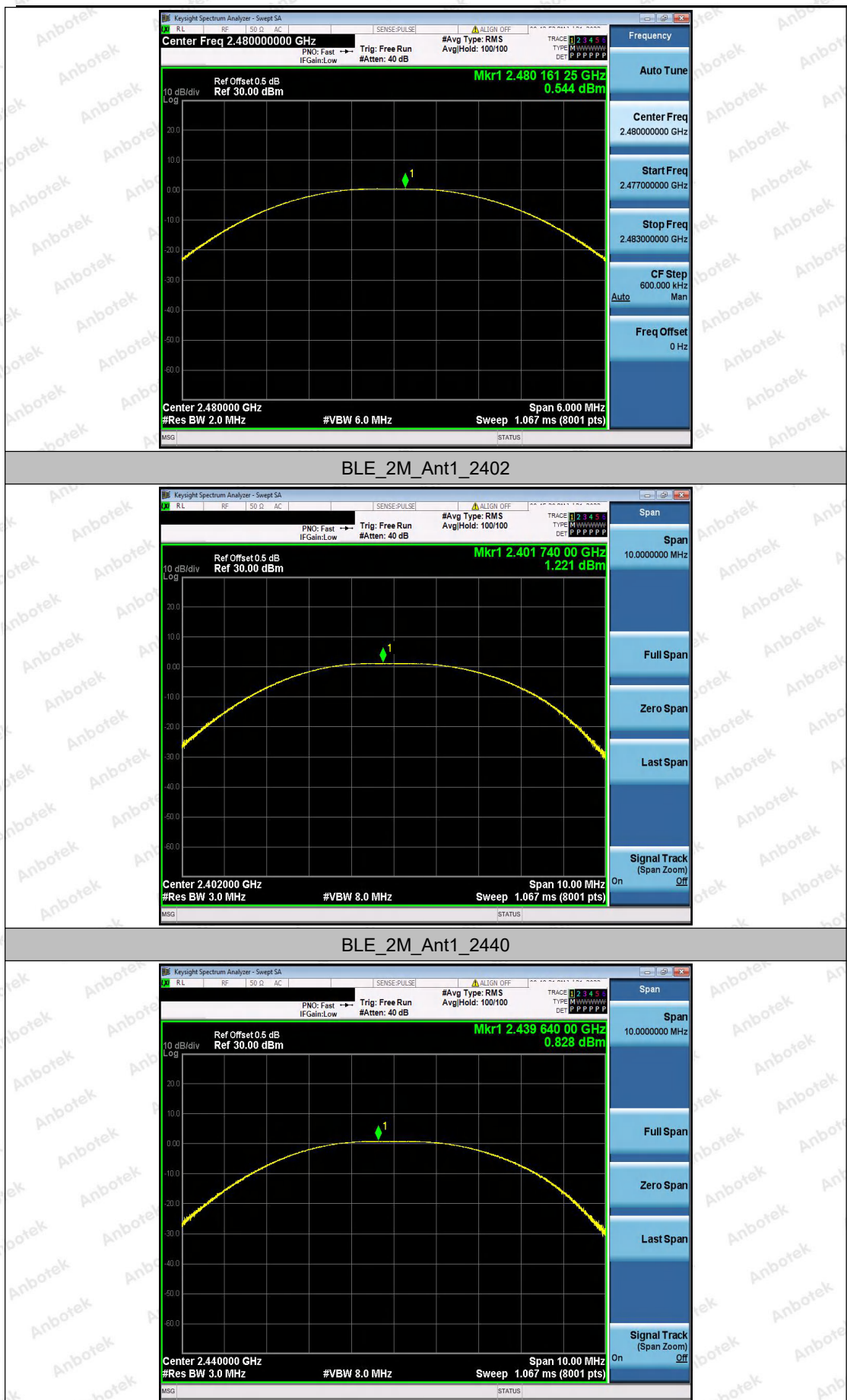


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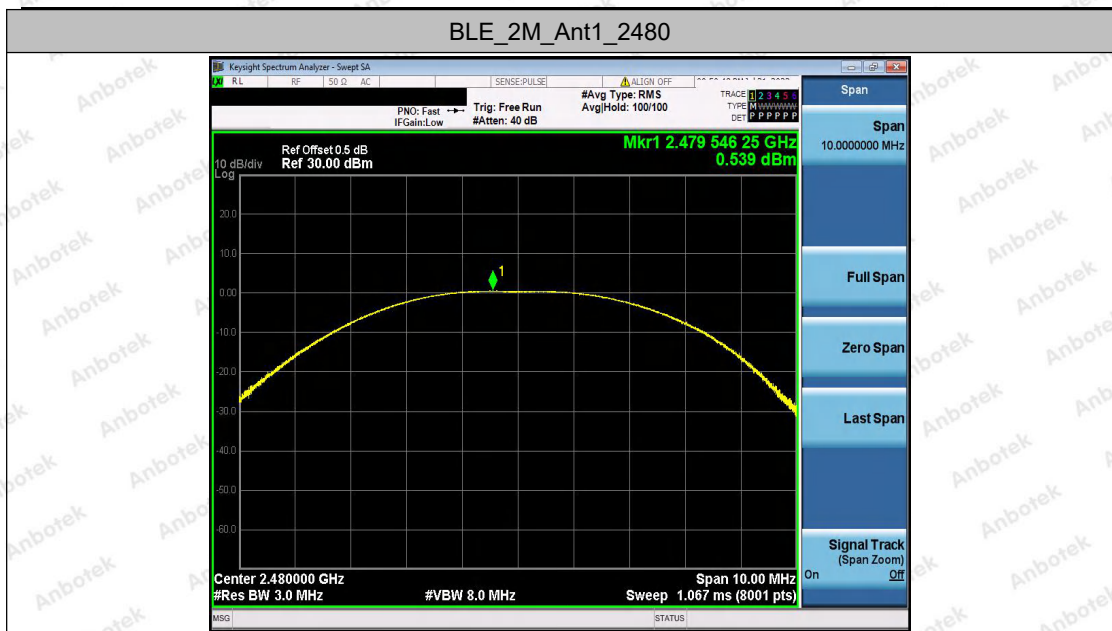


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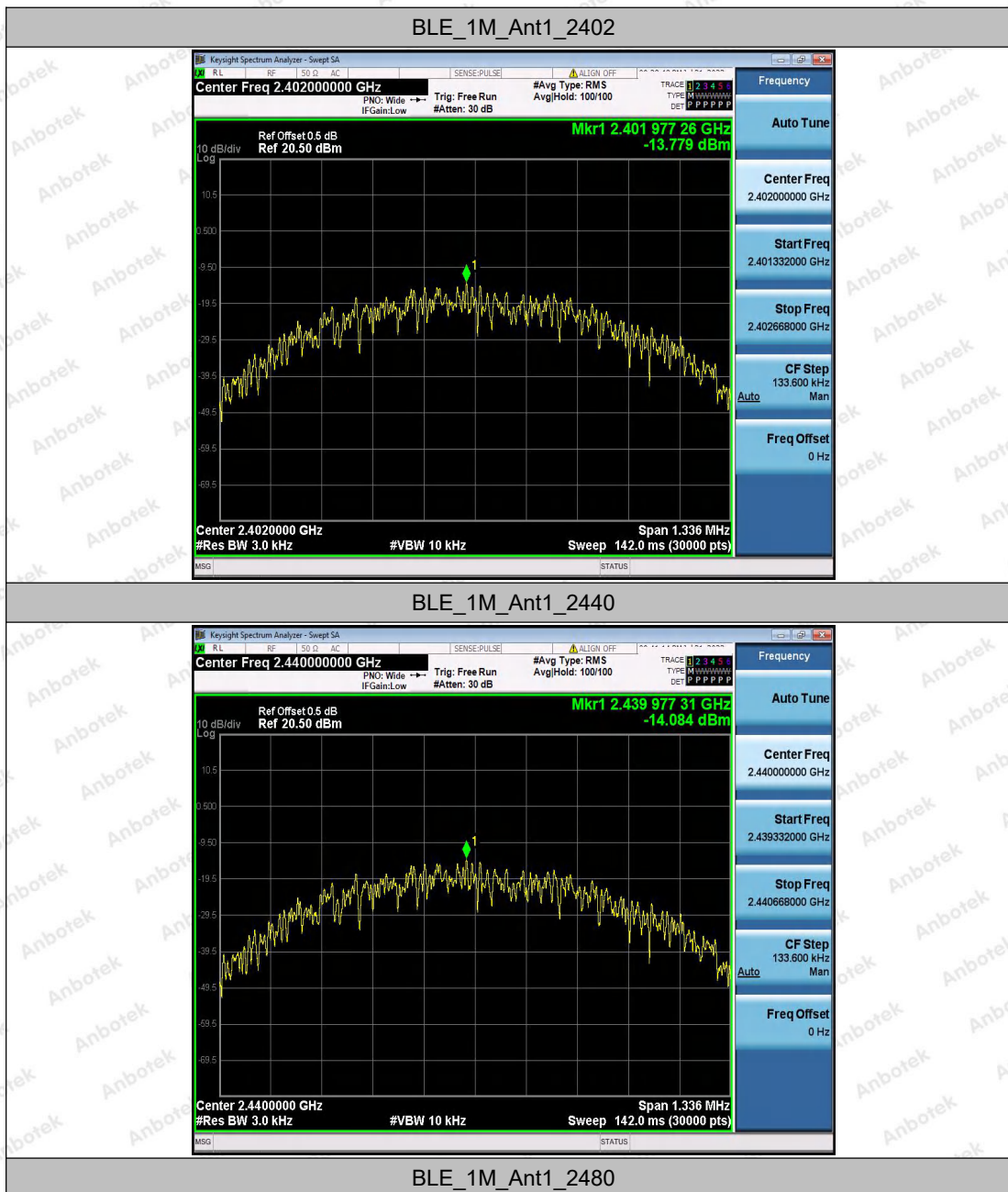
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.78	≤8	PASS
		2440	-14.08	≤8	PASS
		2480	-14.42	≤8	PASS
BLE_2M	Ant1	2402	-15.11	≤8	PASS
		2440	-15.54	≤8	PASS
		2480	-15.84	≤8	PASS

Test Graphs



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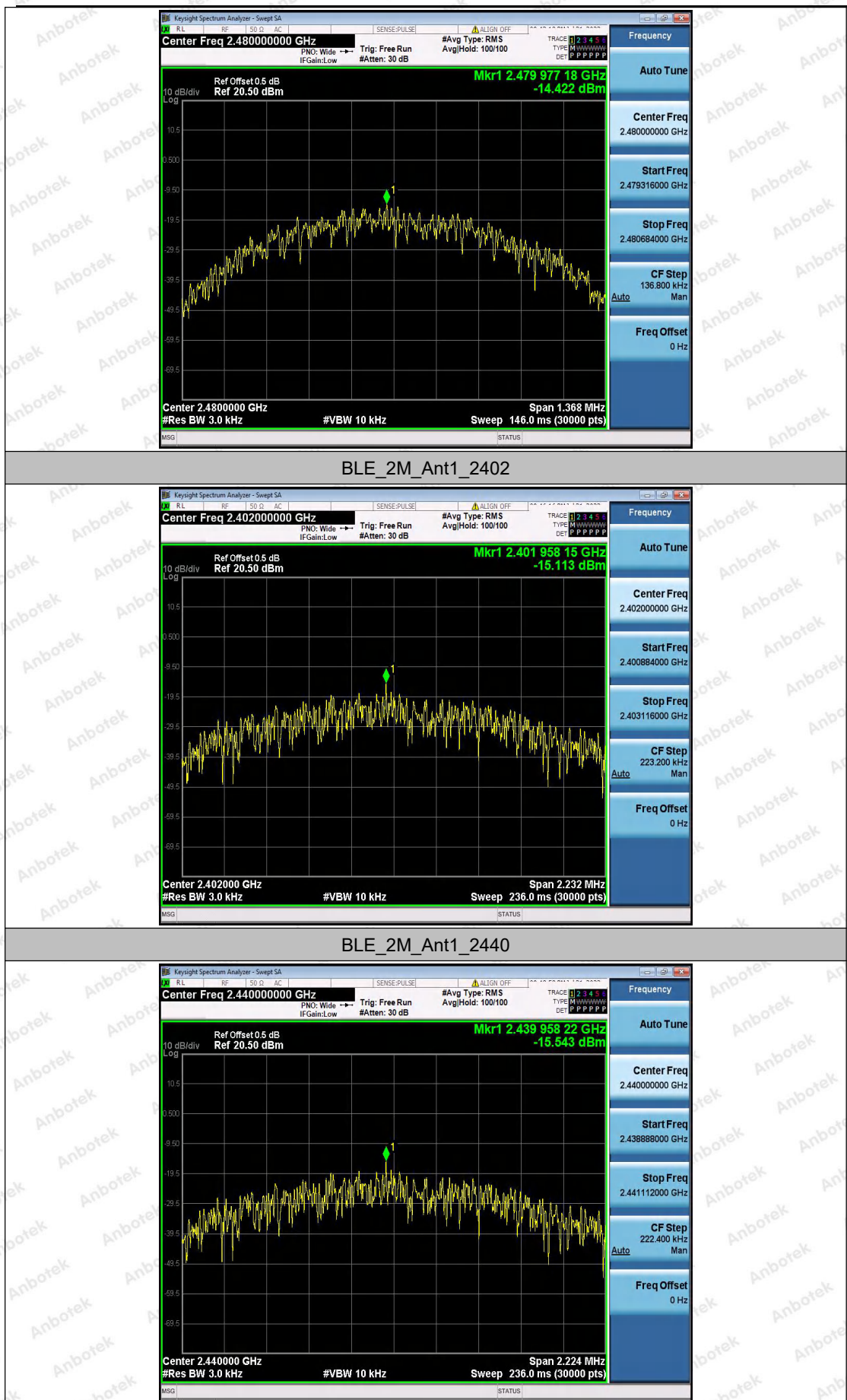
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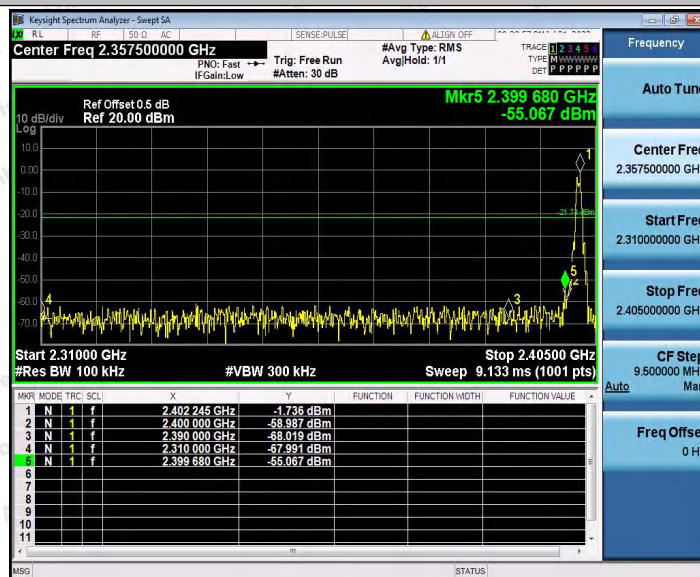
Appendix E: Band edge measurements

Test Result

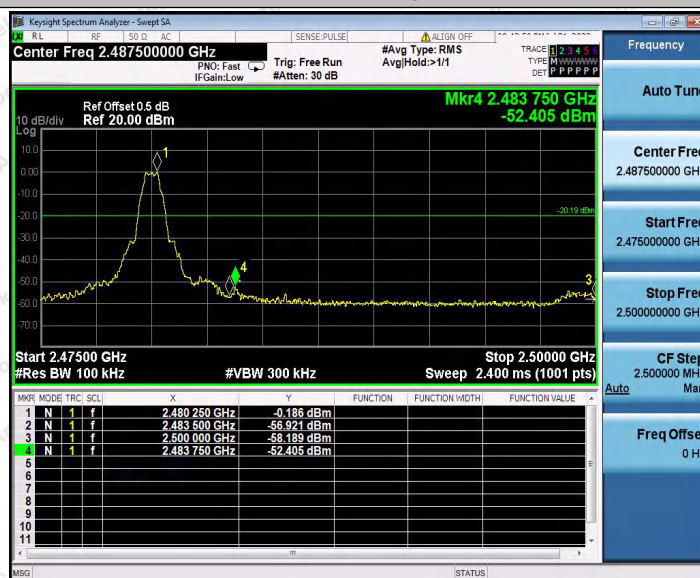
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.74	-55.07	≤ -21.74	PASS
		High	2480	-0.19	-52.41	≤ -20.19	PASS
BLE_2M	Ant1	Low	2402	-4.87	-58.8	≤ -24.87	PASS
		High	2480	-0.66	-52.99	≤ -20.66	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



BLE_2M_Ant1_Low_2402

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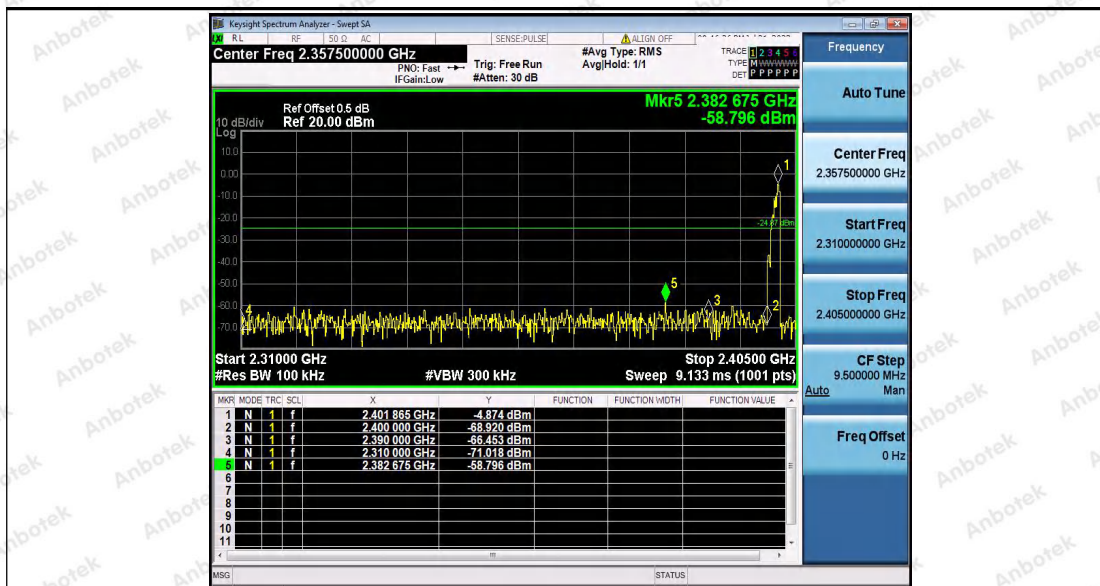
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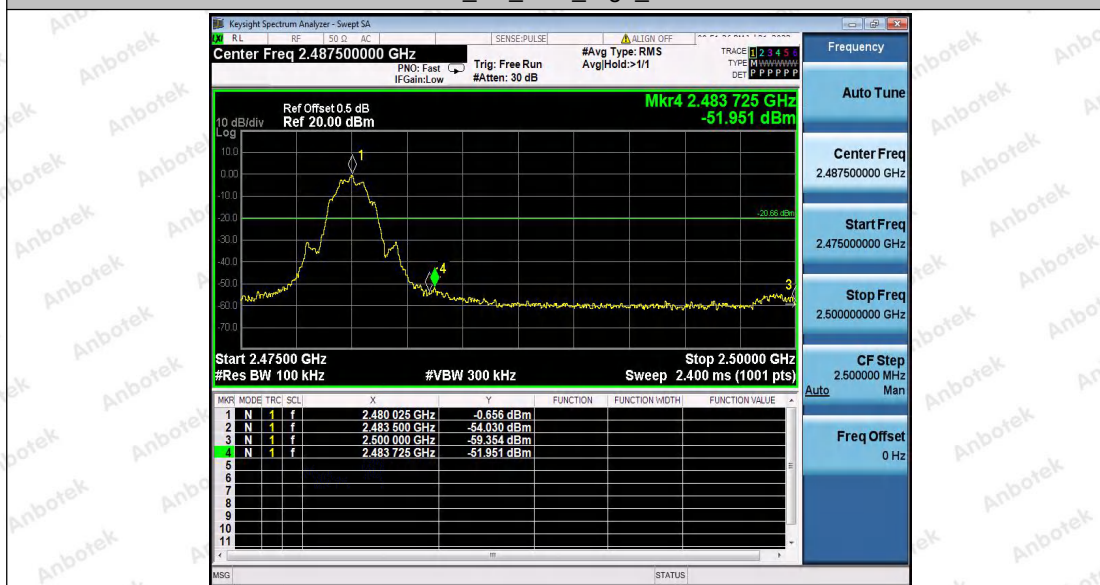
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BLE_2M_Ant1_High_2480



Appendix F: Conducted Spurious Emission

Test Result

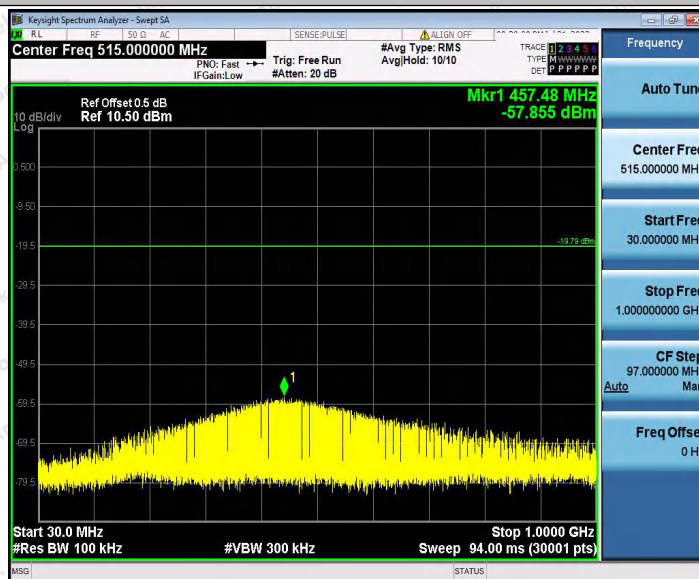
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	0.21	0.21	---	PASS
			30~1000	0.21	-57.86	≤-19.79	PASS
			1000~265 00	0.21	-53.67	≤-19.79	PASS
		2440	Reference	0.06	0.06	---	PASS
			30~1000	0.06	-58.02	≤-19.95	PASS
			1000~265 00	0.06	-53.86	≤-19.95	PASS
		2480	Reference	-0.40	-0.40	---	PASS
			30~1000	-0.40	-58.25	≤-20.4	PASS
			1000~265 00	-0.40	-53.96	≤-20.4	PASS
BLE_2M	Ant1	2402	Reference	0.13	0.13	---	PASS
			30~1000	0.13	-58.16	≤-19.88	PASS
			1000~265 00	0.13	-53.91	≤-19.88	PASS
		2440	Reference	-0.36	-0.36	---	PASS
			30~1000	-0.36	-58.08	≤-20.36	PASS
			1000~265 00	-0.36	-53.13	≤-20.36	PASS
		2480	Reference	-0.54	-0.54	---	PASS
			30~1000	-0.54	-58.21	≤-20.54	PASS
			1000~265 00	-0.54	-53.62	≤-20.54	PASS

Test Graphs

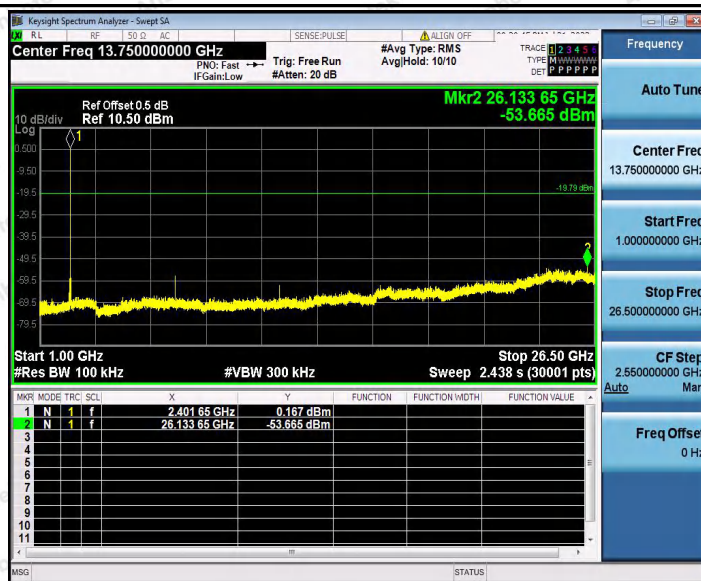
BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



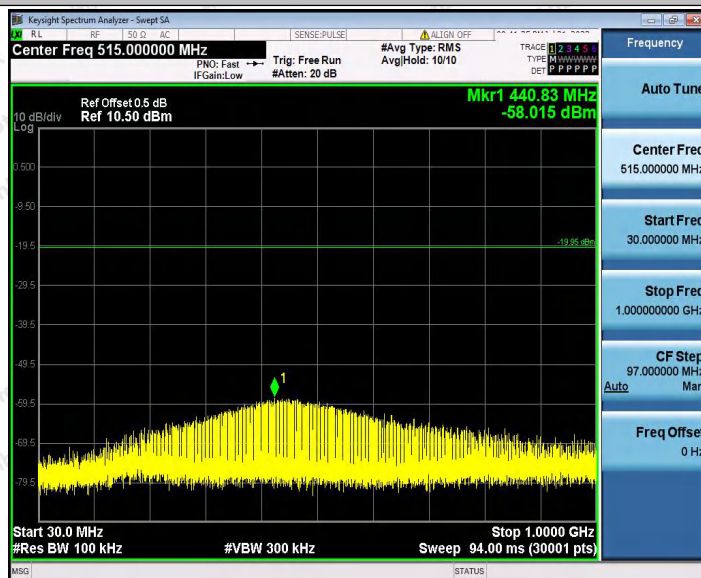
BLE_1M_Ant1_2402_1000~26500



BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



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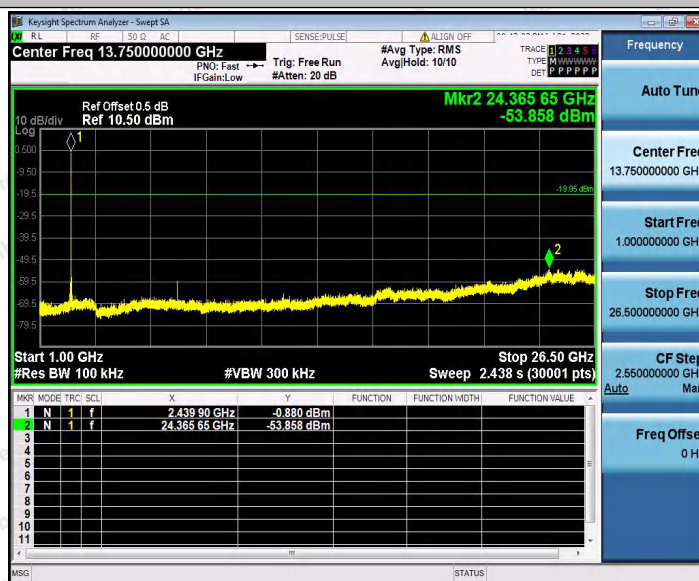


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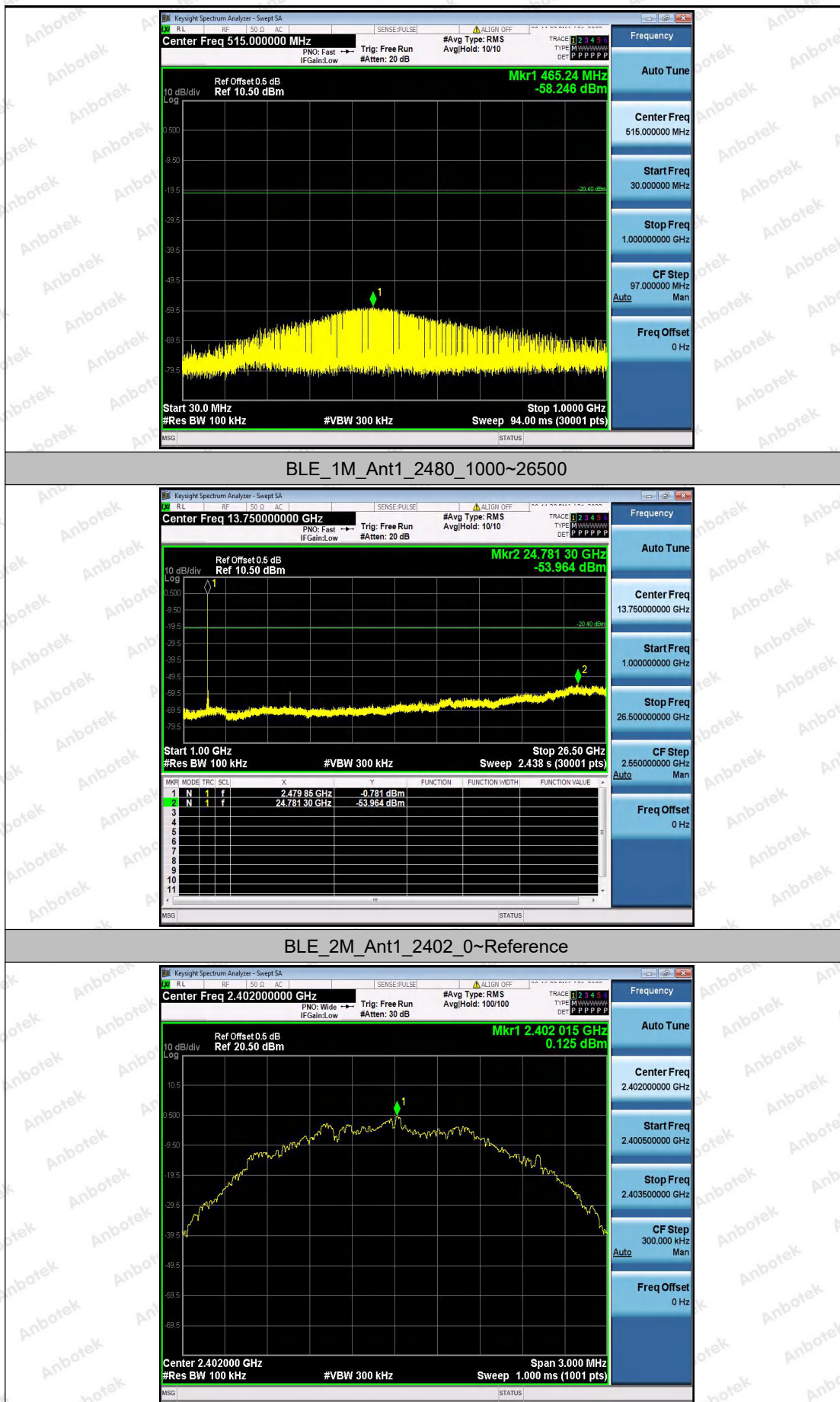
BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



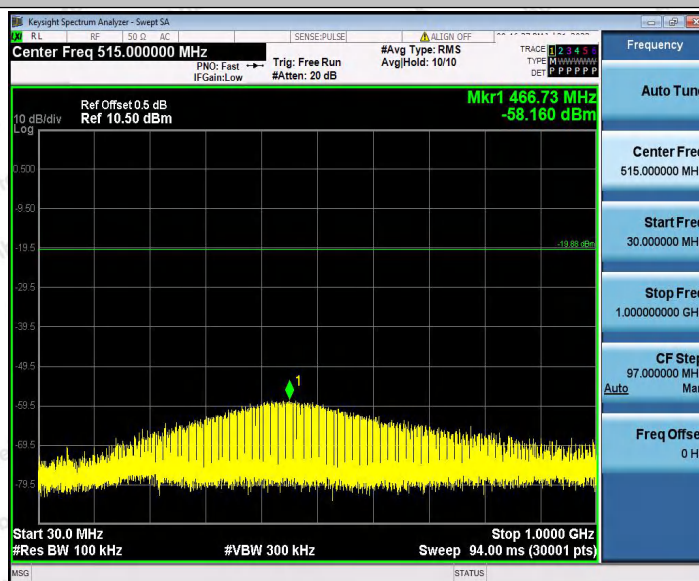
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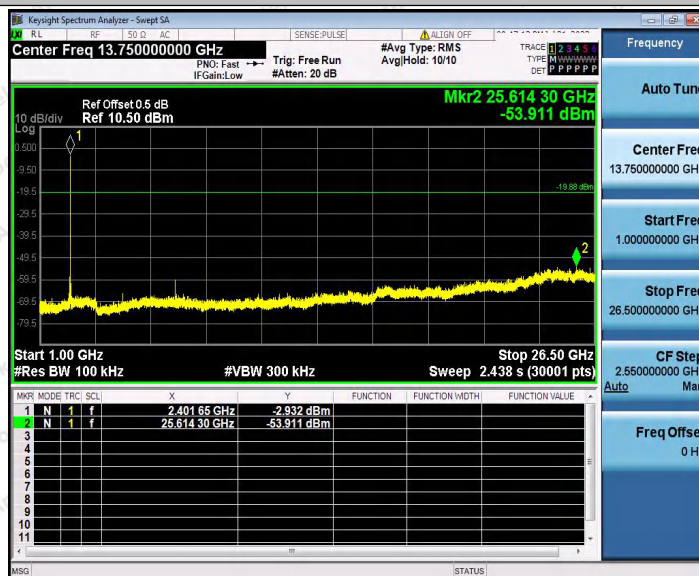
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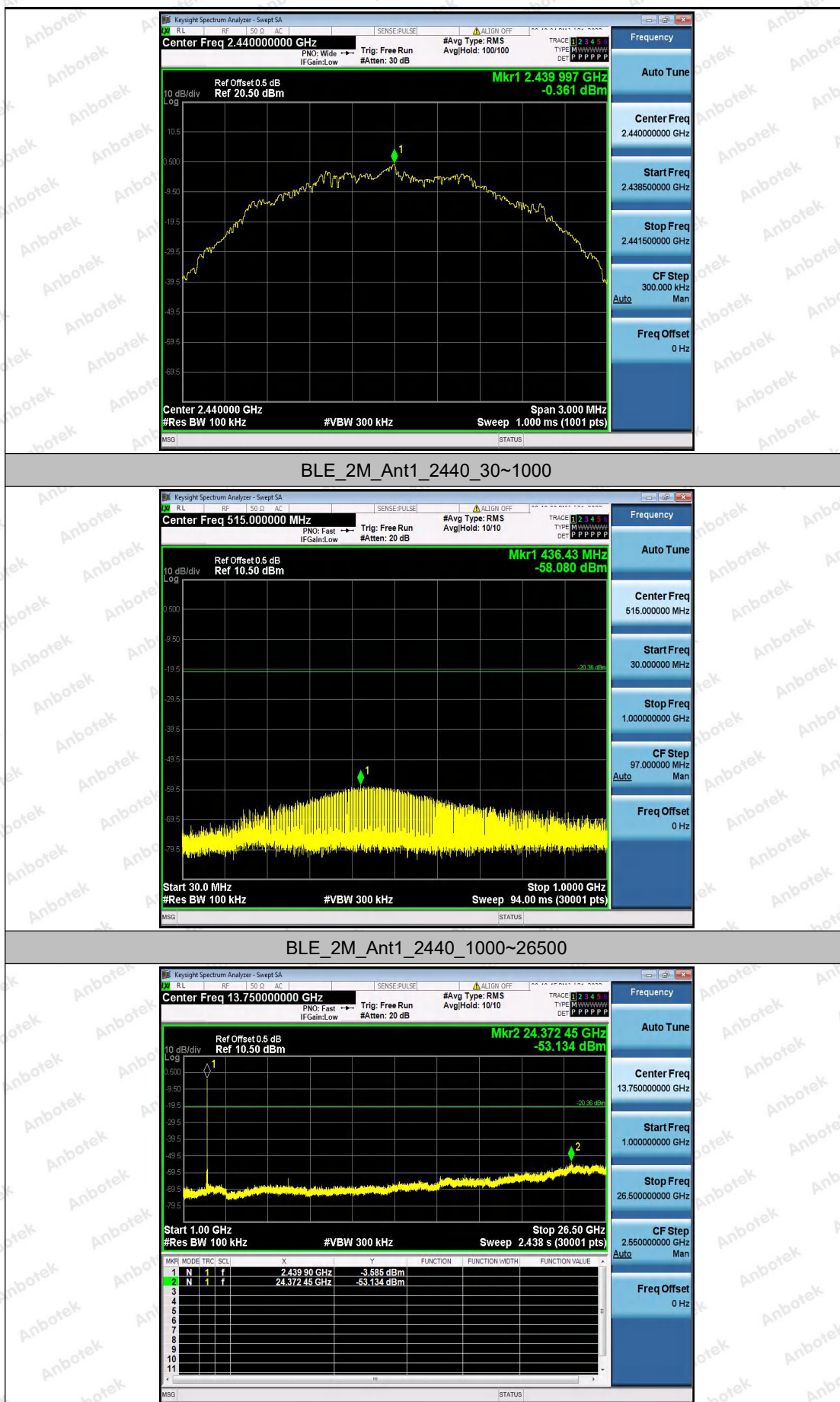
BLE_2M_Ant1_2402_30~1000



BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference



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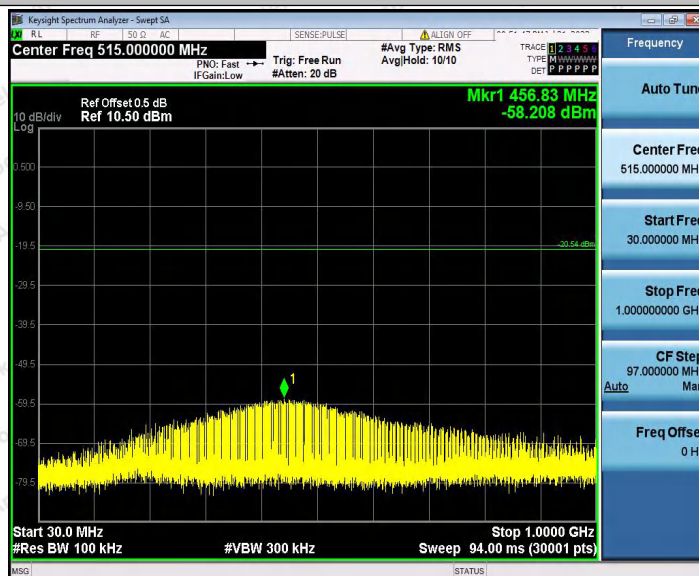
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BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



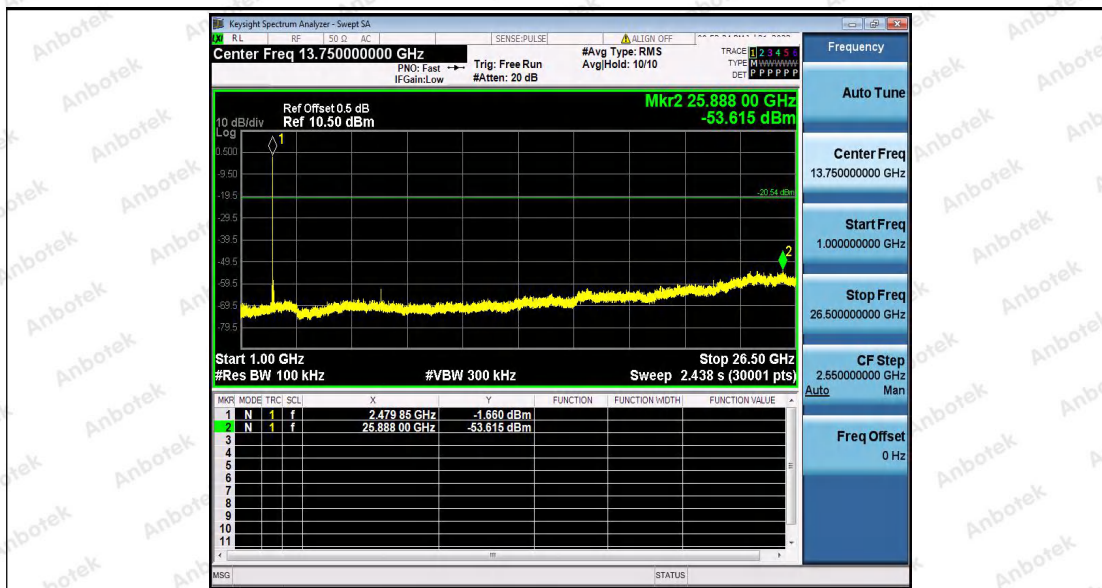
BLE_2M_Ant1_2480_1000~26500

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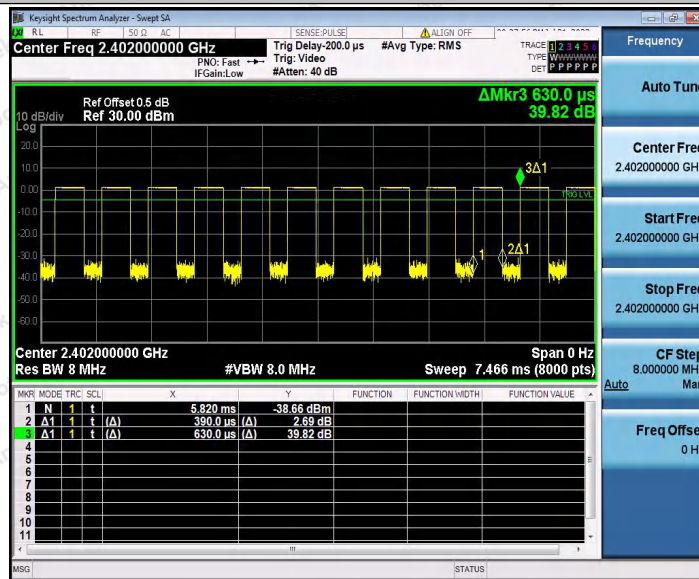
Appendix G: Duty Cycle

Test Result

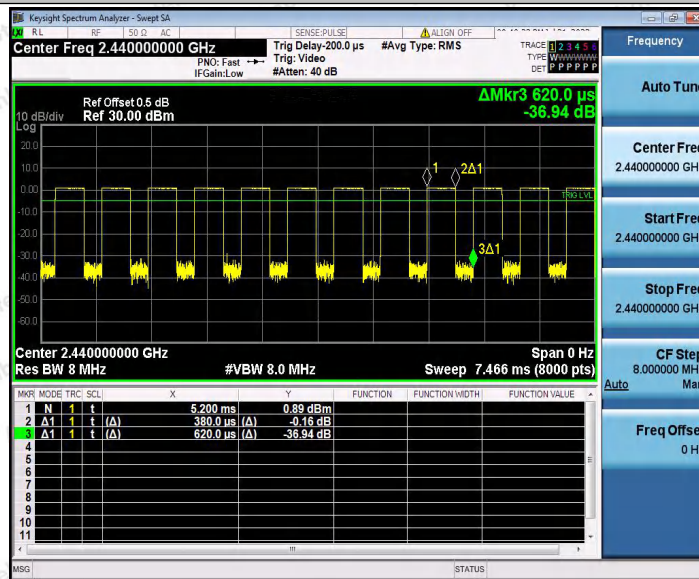
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.39	0.63	0.619 0	61.90	2.08	---	PASS
		2440	0.38	0.62	0.612 9	61.29	2.13	---	PASS
		2480	0.39	0.63	0.619 0	61.90	2.08	---	PASS
BLE_2M	Ant1	2402	0.20	0.62	0.322 6	32.26	4.91	---	PASS
		2440	0.20	0.62	0.322 6	32.26	4.91	---	PASS
		2480	0.20	0.62	0.322 6	32.26	4.91	---	PASS

Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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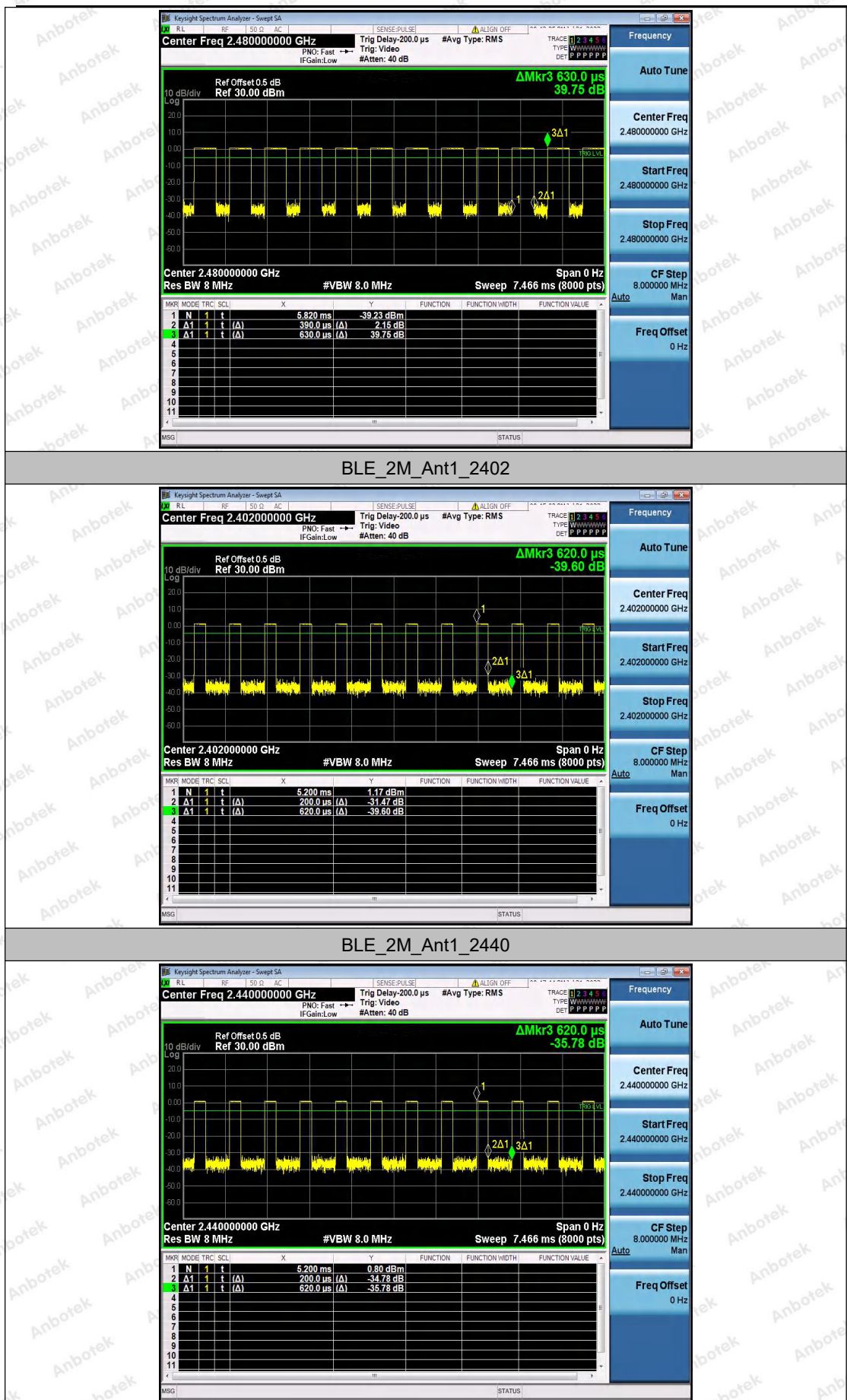
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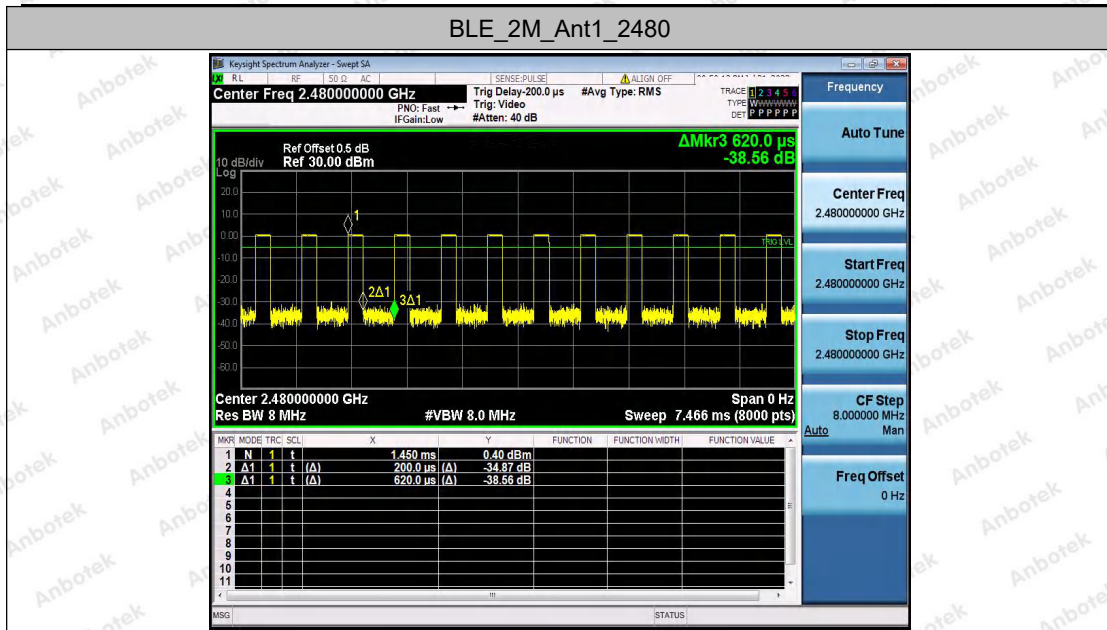


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