

Appendix Test Data

Report No.:	18220WC20167701	Test Sample No.:	1-2-2
Start Test Date:	2022.7.26	Finish Test Date:	2022.8.1
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	26.3℃	Relative Humidity:	46 %
Pressure:	1012 hPa		

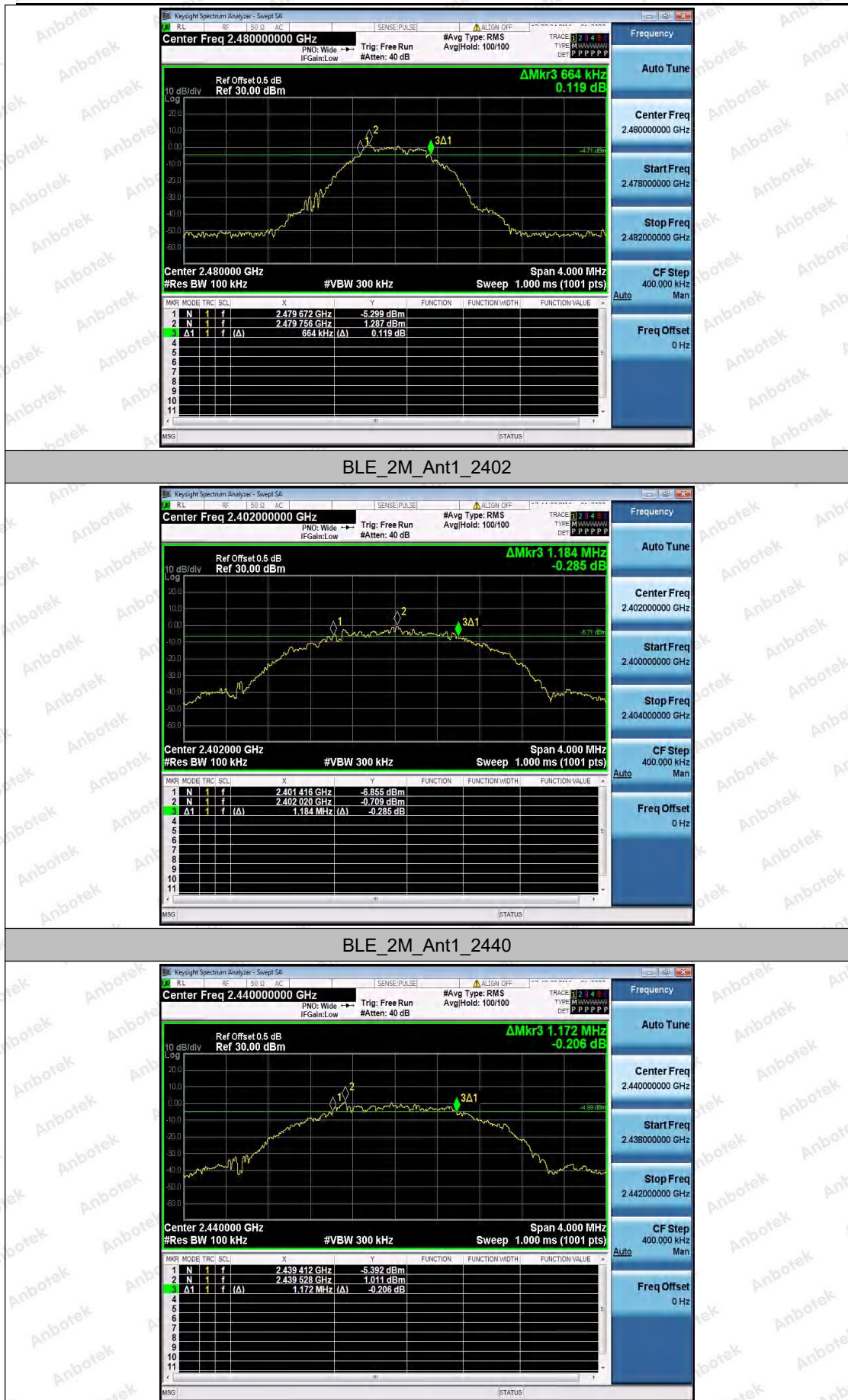
Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.664	2401.672	2402.336	≥0.5	PASS
		2440	0.636	2439.680	2440.316	≥0.5	PASS
		2480	0.664	2479.672	2480.336	≥0.5	PASS
BLE_2M	Ant1	2402	1.184	2401.416	2402.600	≥0.5	PASS
		2440	1.172	2439.412	2440.584	≥0.5	PASS
		2480	1.140	2479.432	2480.572	≥0.5	PASS

Test Graphs





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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	1.0051	2401.501	2402.506	---	PASS
		2440	0.99880	2439.510	2440.509	---	PASS
		2480	1.0036	2479.502	2480.505	---	PASS
BLE_2M	Ant1	2402	2.0423	2401.003	2403.045	---	PASS
		2440	2.0441	2438.999	2441.043	---	PASS
		2480	2.0491	2478.996	2481.045	---	PASS

Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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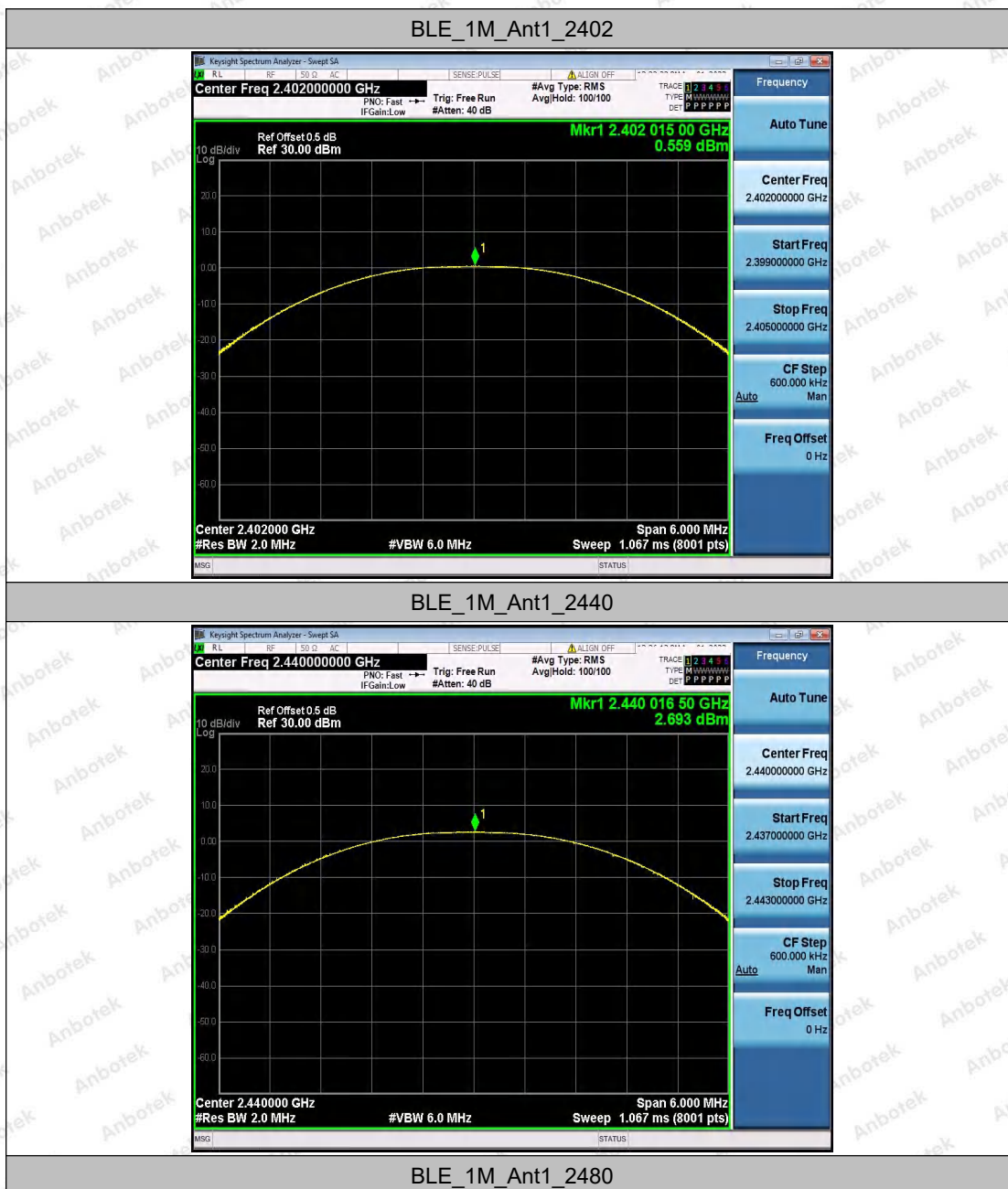
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Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.56	≤30	PASS
		2440	2.69	≤30	PASS
		2480	1.66	≤30	PASS
BLE_2M	Ant1	2402	0.57	≤30	PASS
		2440	2.65	≤30	PASS
		2480	1.67	≤30	PASS

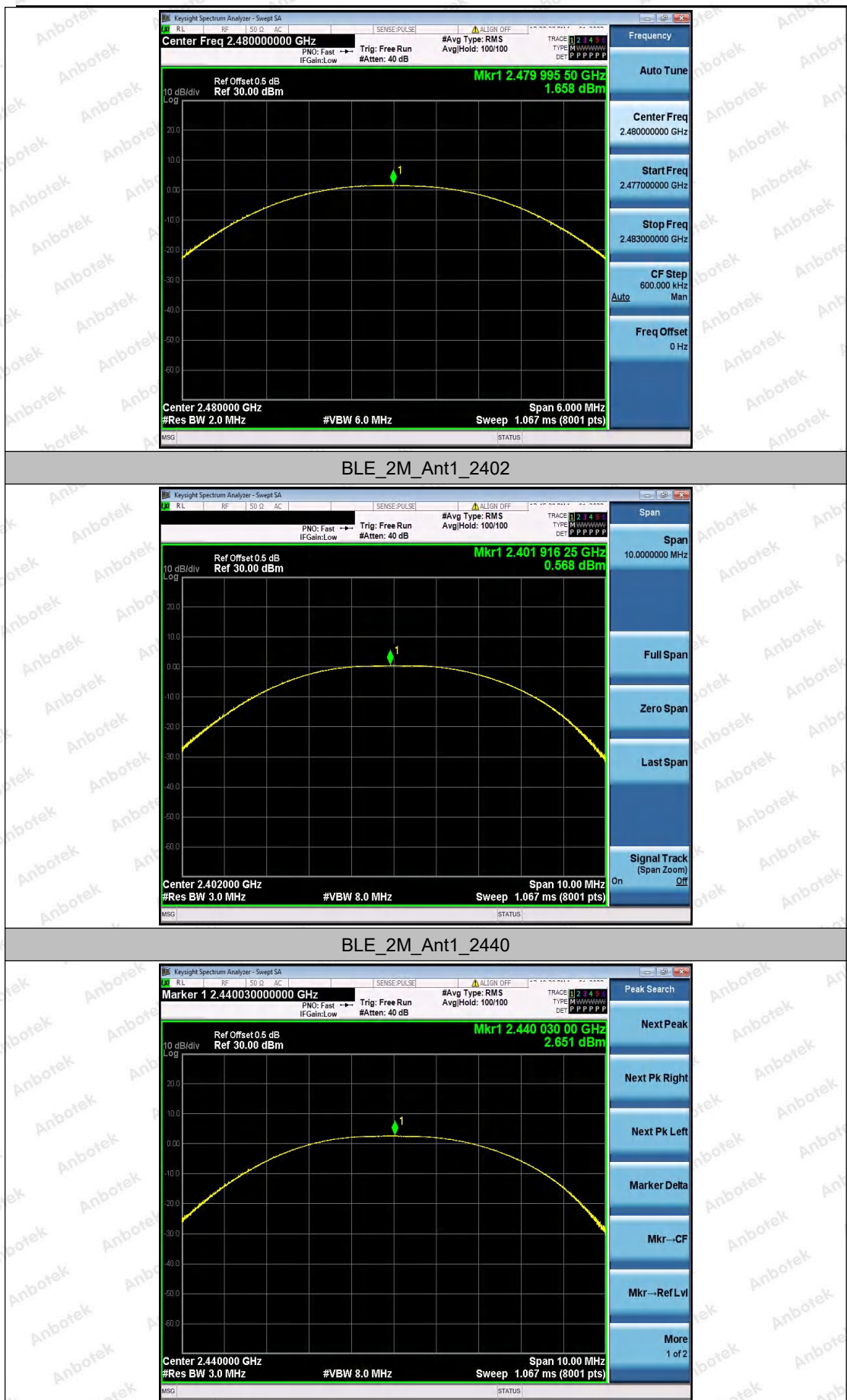
Test Graphs



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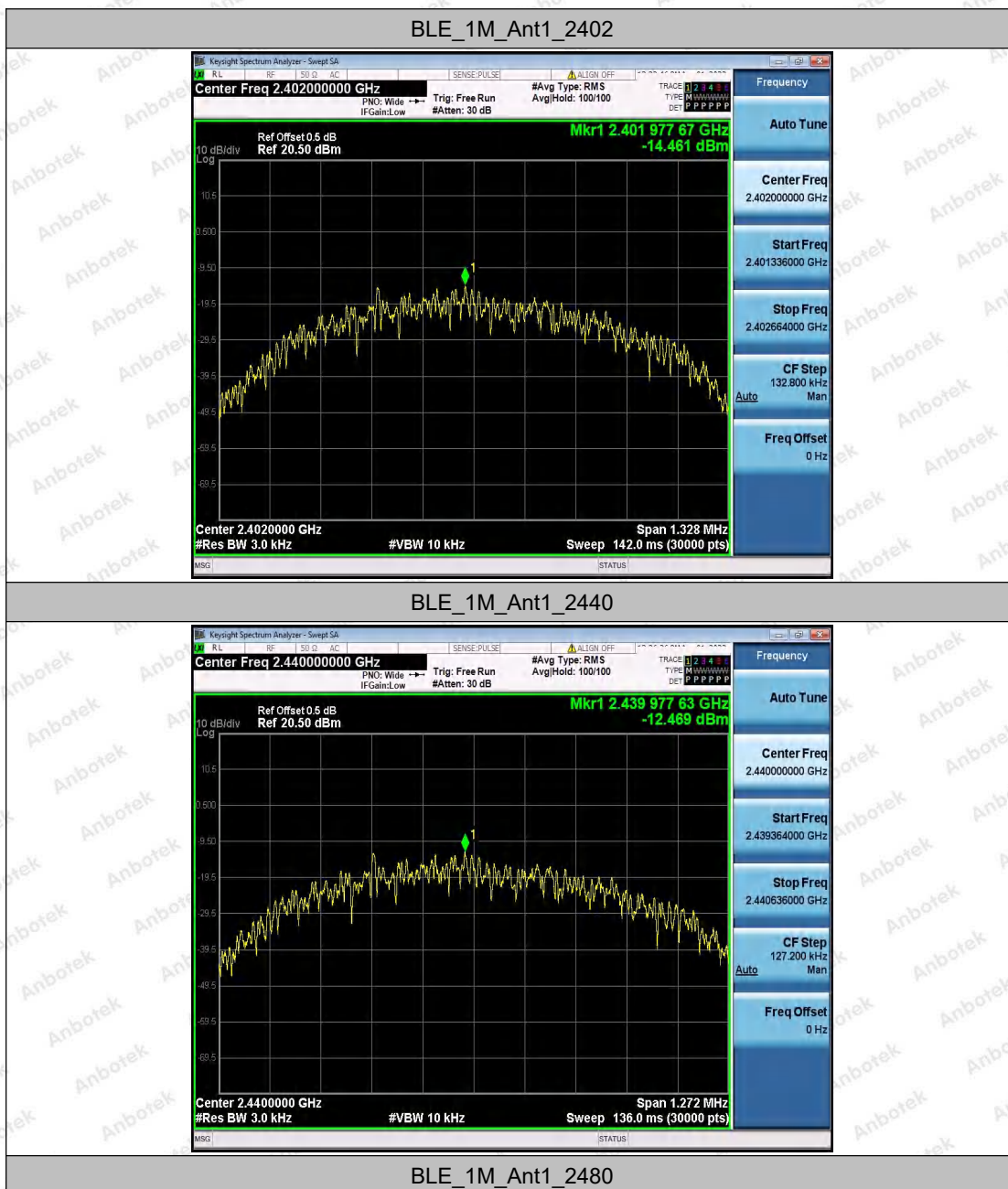
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Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.46	≤8	PASS
		2440	-12.47	≤8	PASS
		2480	-13.41	≤8	PASS
BLE_2M	Ant1	2402	-19.12	≤8	PASS
		2440	-17.11	≤8	PASS
		2480	-18.1	≤8	PASS

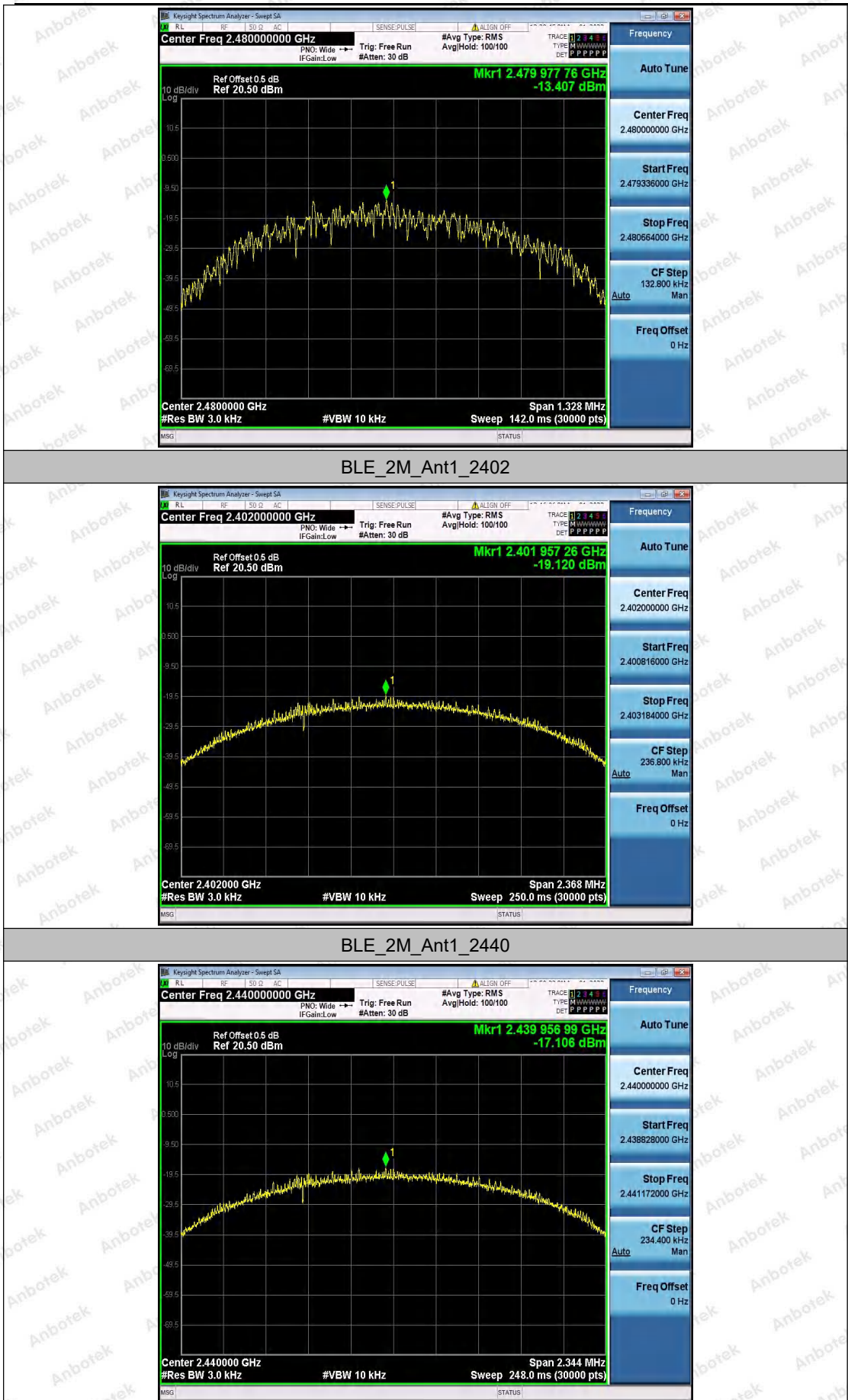
Test Graphs



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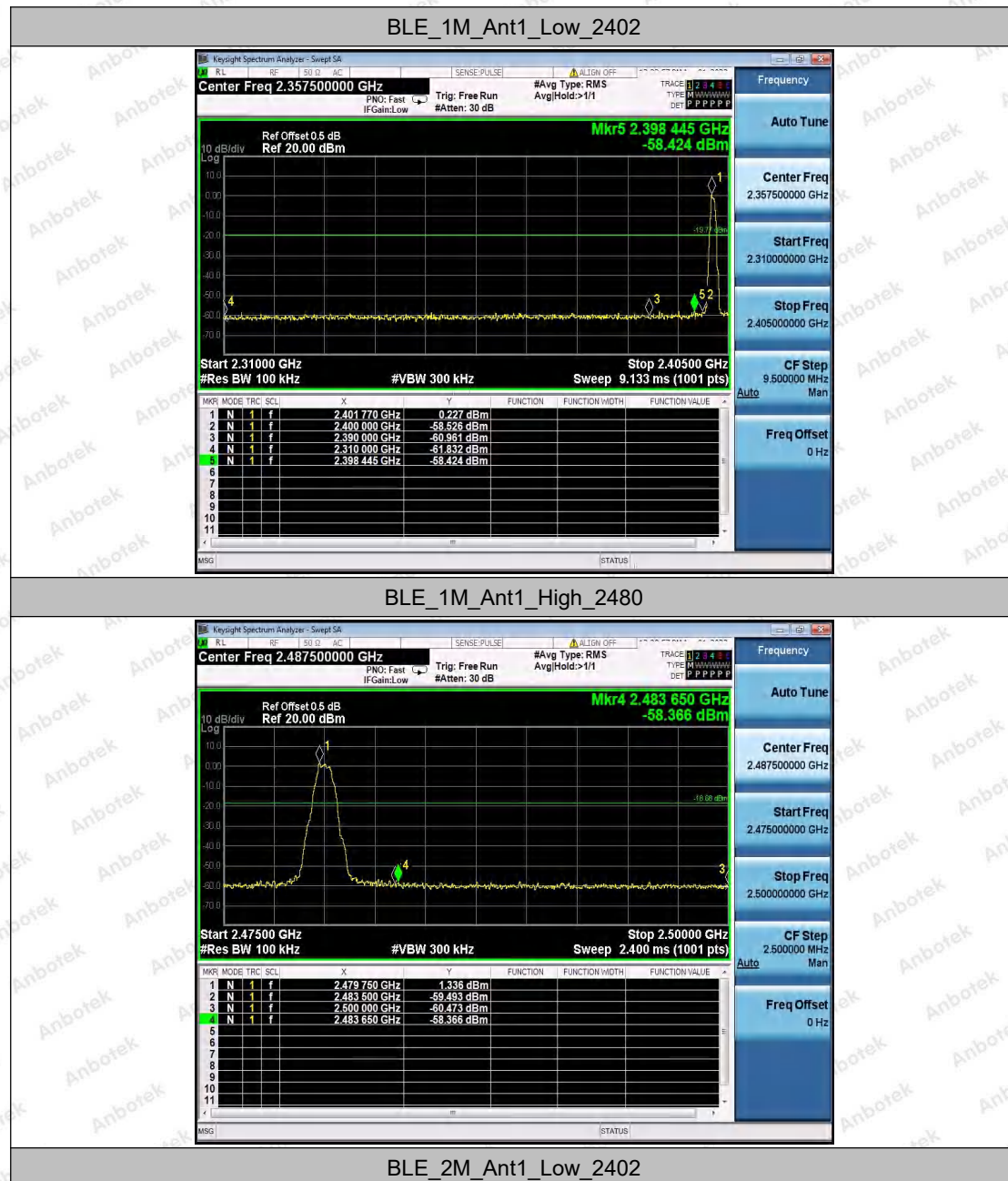
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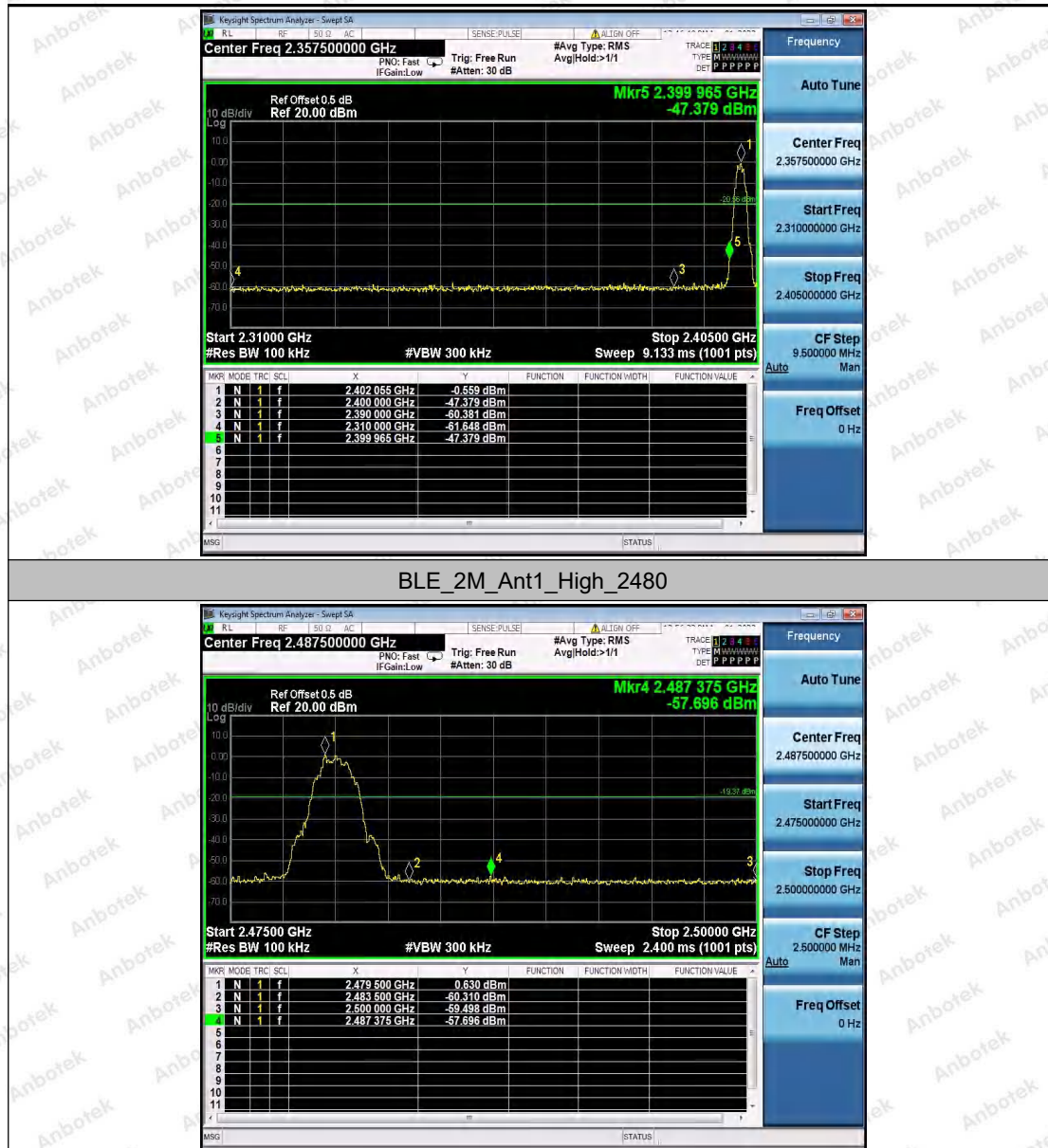
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch Name	Channel	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.23	-58.42	≤ -19.77	PASS
		High	2480	1.34	-58.37	≤ -18.66	PASS
BLE_2M	Ant1	Low	2402	-0.56	-47.38	≤ -20.56	PASS
		High	2480	0.63	-57.7	≤ -19.37	PASS

Test Graphs





Appendix F: Conducted Spurious Emission

Test Result

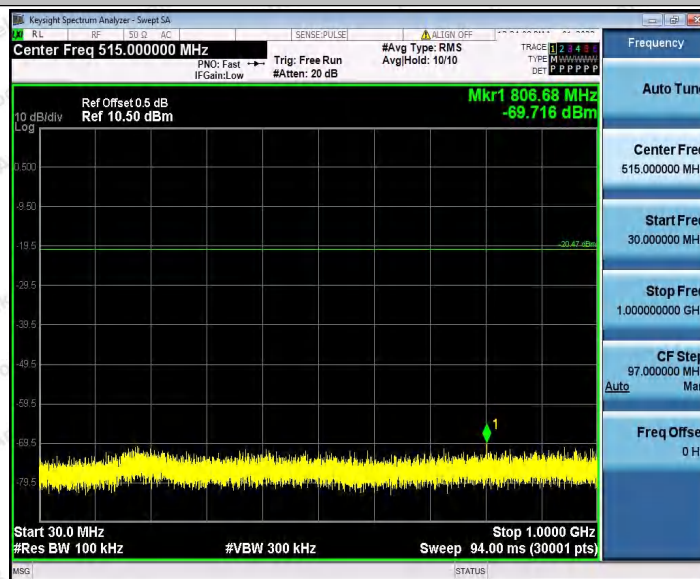
Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-0.47	-0.47	---	PASS
			30~1000	-0.47	-69.72	≤-20.47	PASS
			1000~26500	-0.47	-54.37	≤-20.47	PASS
		2440	Reference	2.29	2.29	---	PASS
			30~1000	2.29	-69.81	≤-17.71	PASS
			1000~26500	2.29	-54.41	≤-17.71	PASS
		2480	Reference	1.08	1.08	---	PASS
			30~1000	1.08	-70.09	≤-18.92	PASS
			1000~26500	1.08	-54.6	≤-18.92	PASS
BLE_2M	Ant1	2402	Reference	-0.50	-0.50	---	PASS
			30~1000	-0.50	-69.85	≤-20.5	PASS
			1000~26500	-0.50	-54.56	≤-20.5	PASS
		2440	Reference	1.62	1.62	---	PASS
			30~1000	1.62	-69.72	≤-18.38	PASS
			1000~26500	1.62	-54.12	≤-18.38	PASS
		2480	Reference	0.35	0.35	---	PASS
			30~1000	0.35	-70.12	≤-19.65	PASS
			1000~26500	0.35	-54.59	≤-19.65	PASS

Test Graphs

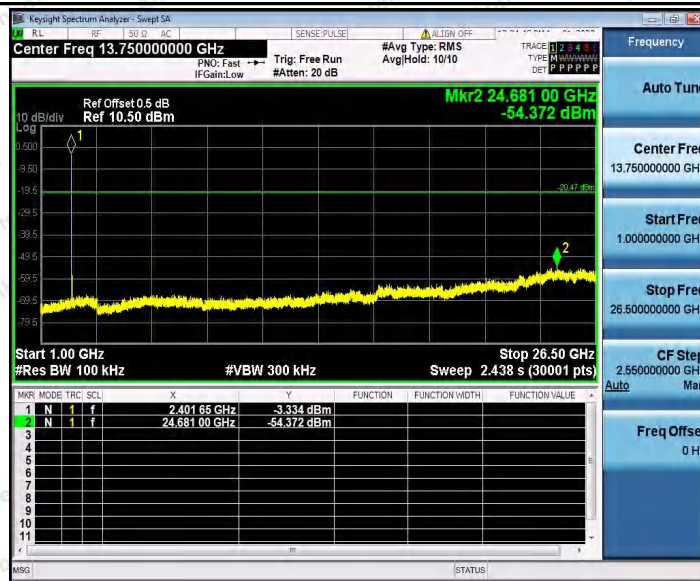
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BLE_1M_Ant1_2402_30~1000



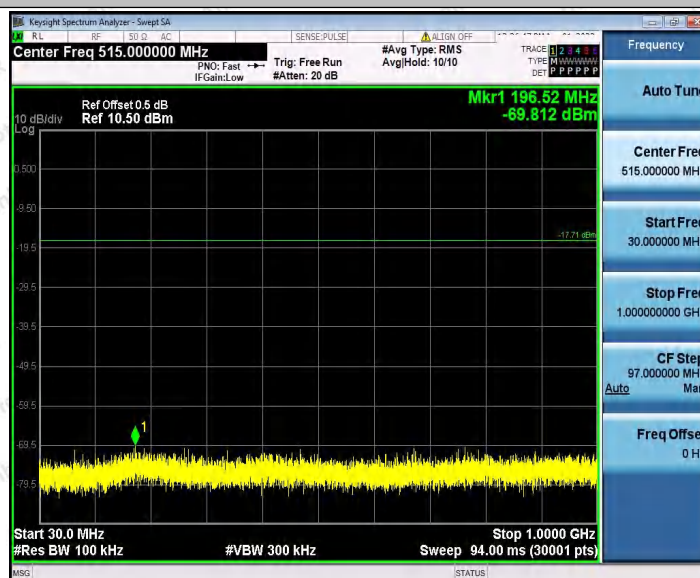
BLE_1M_Ant1_2402_1000~26500



BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



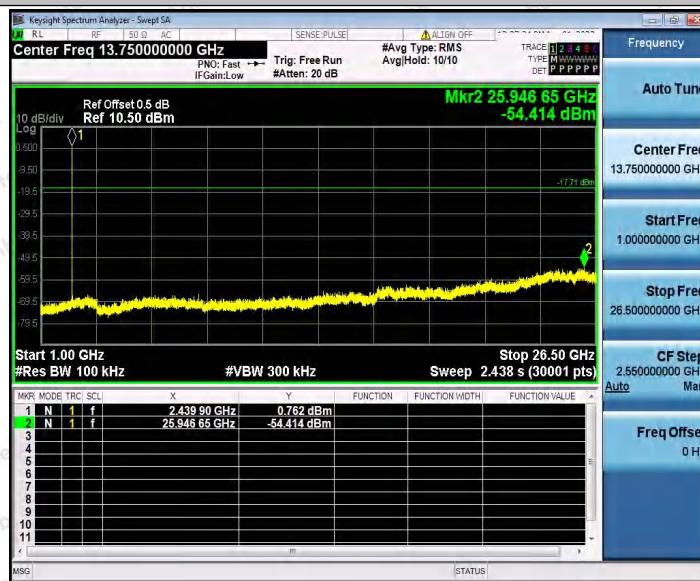
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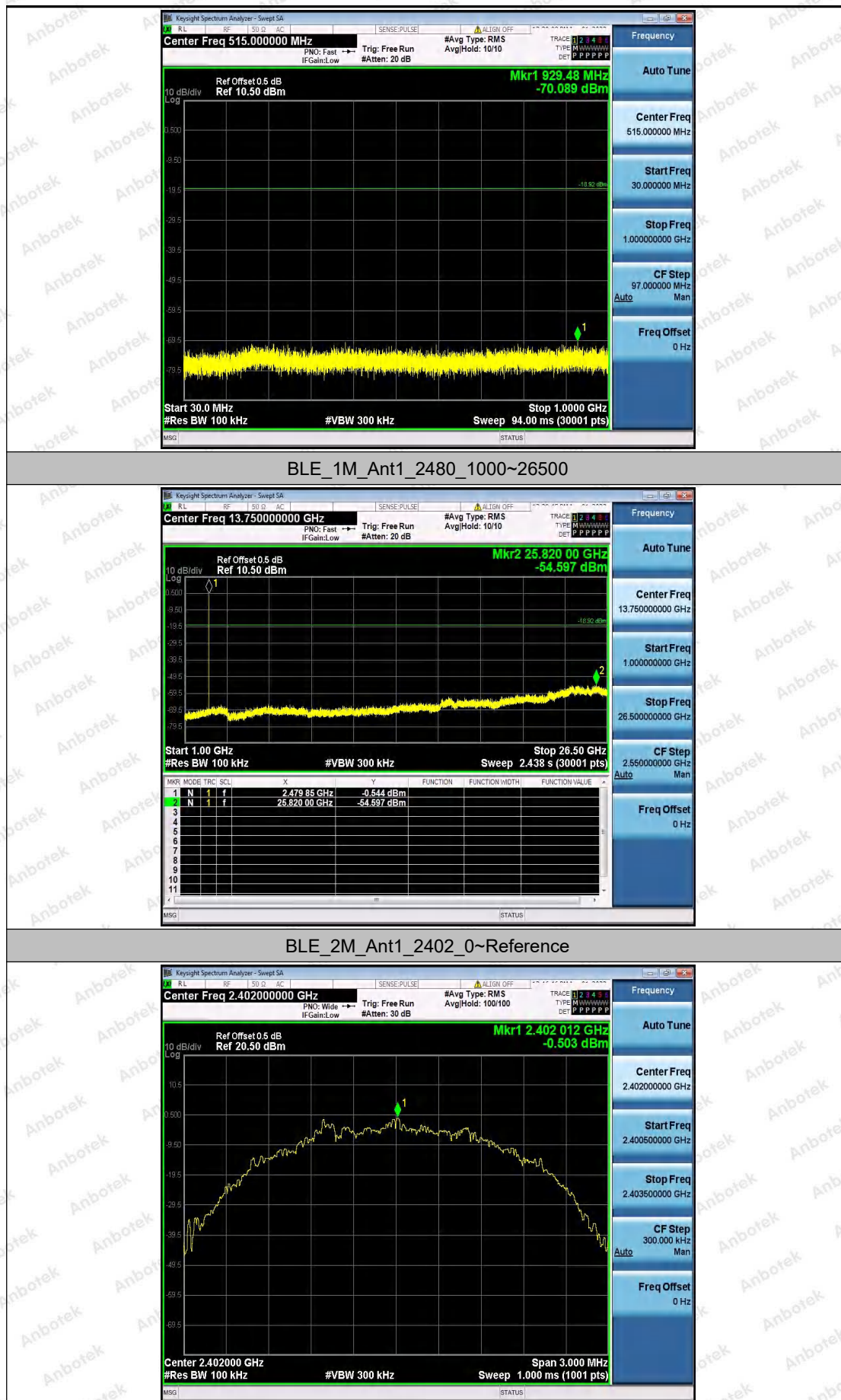
BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



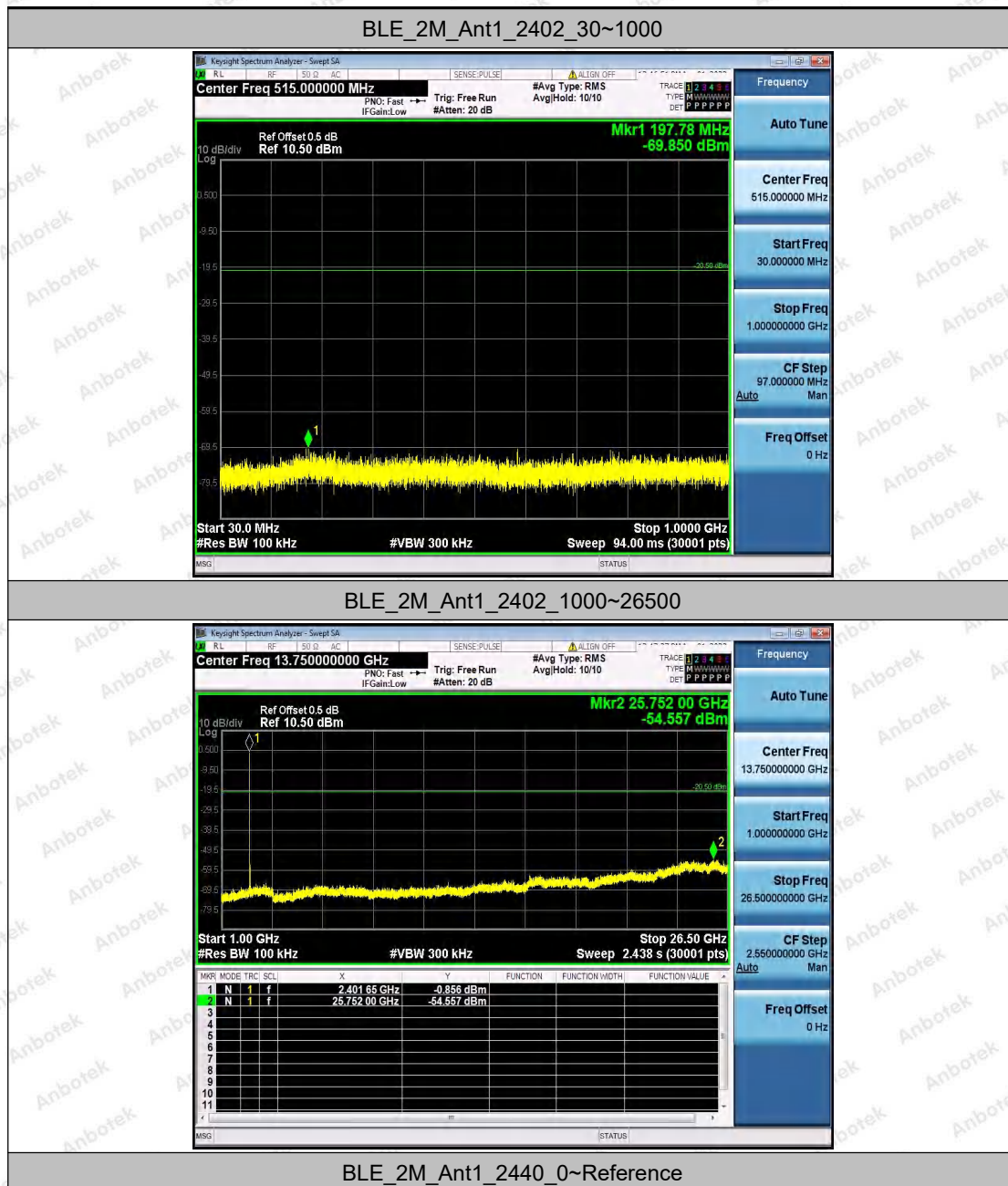
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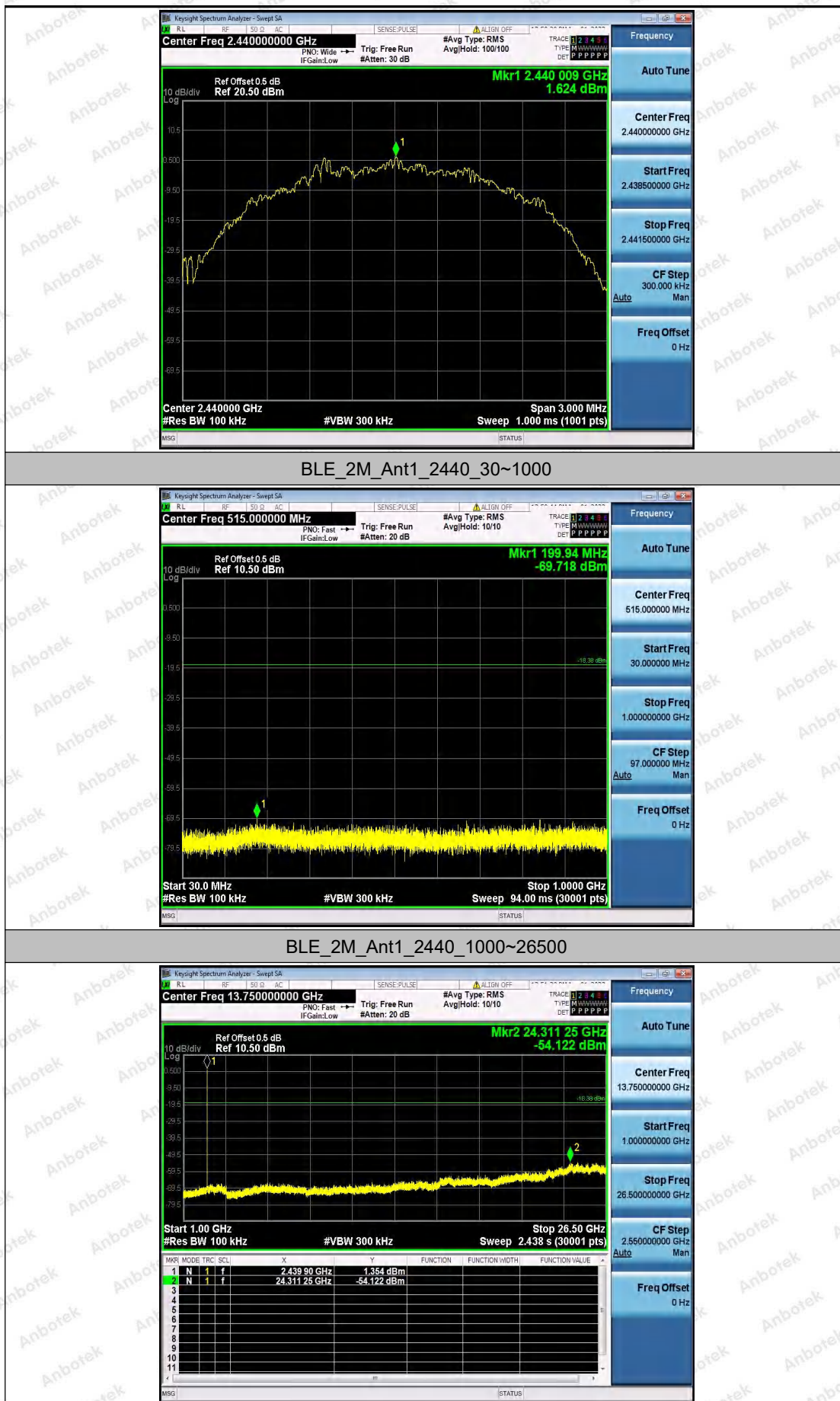


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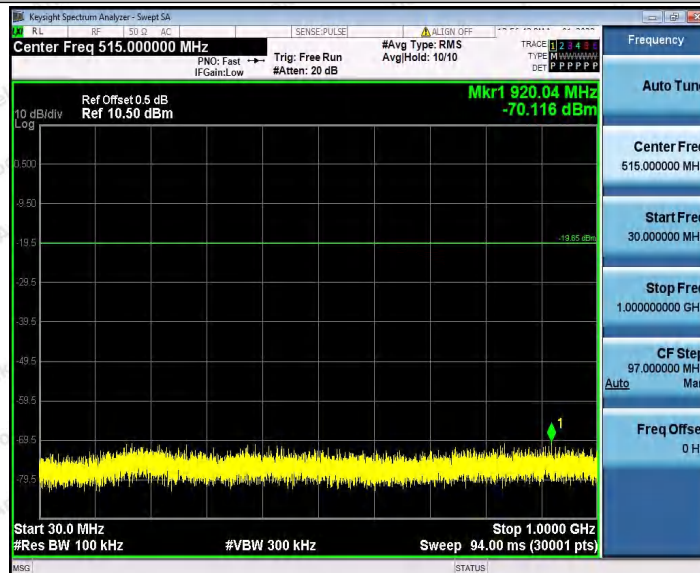
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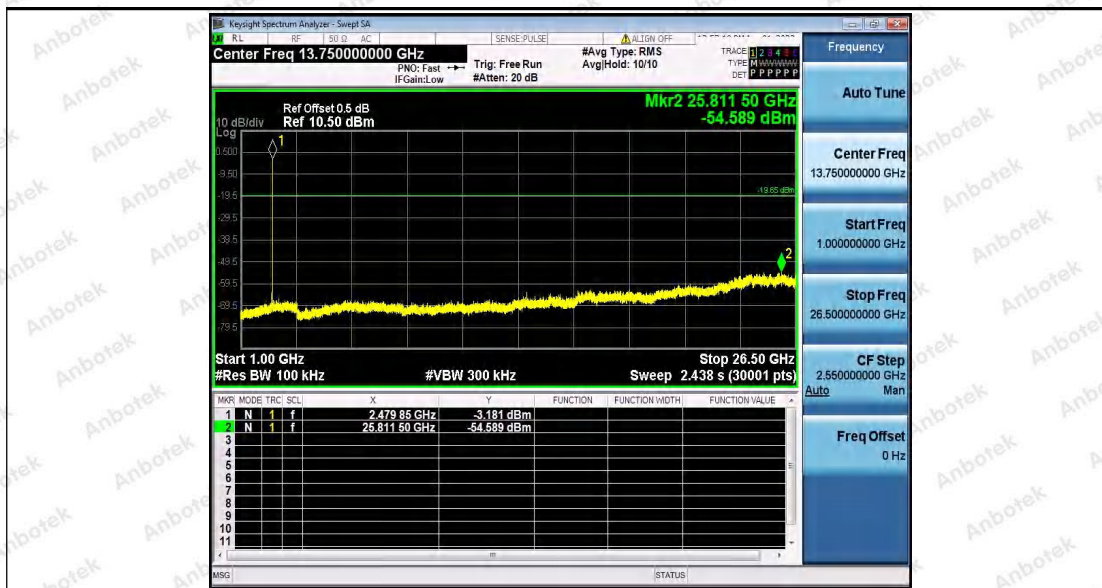
BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



BLE_2M_Ant1_2480_1000~26500



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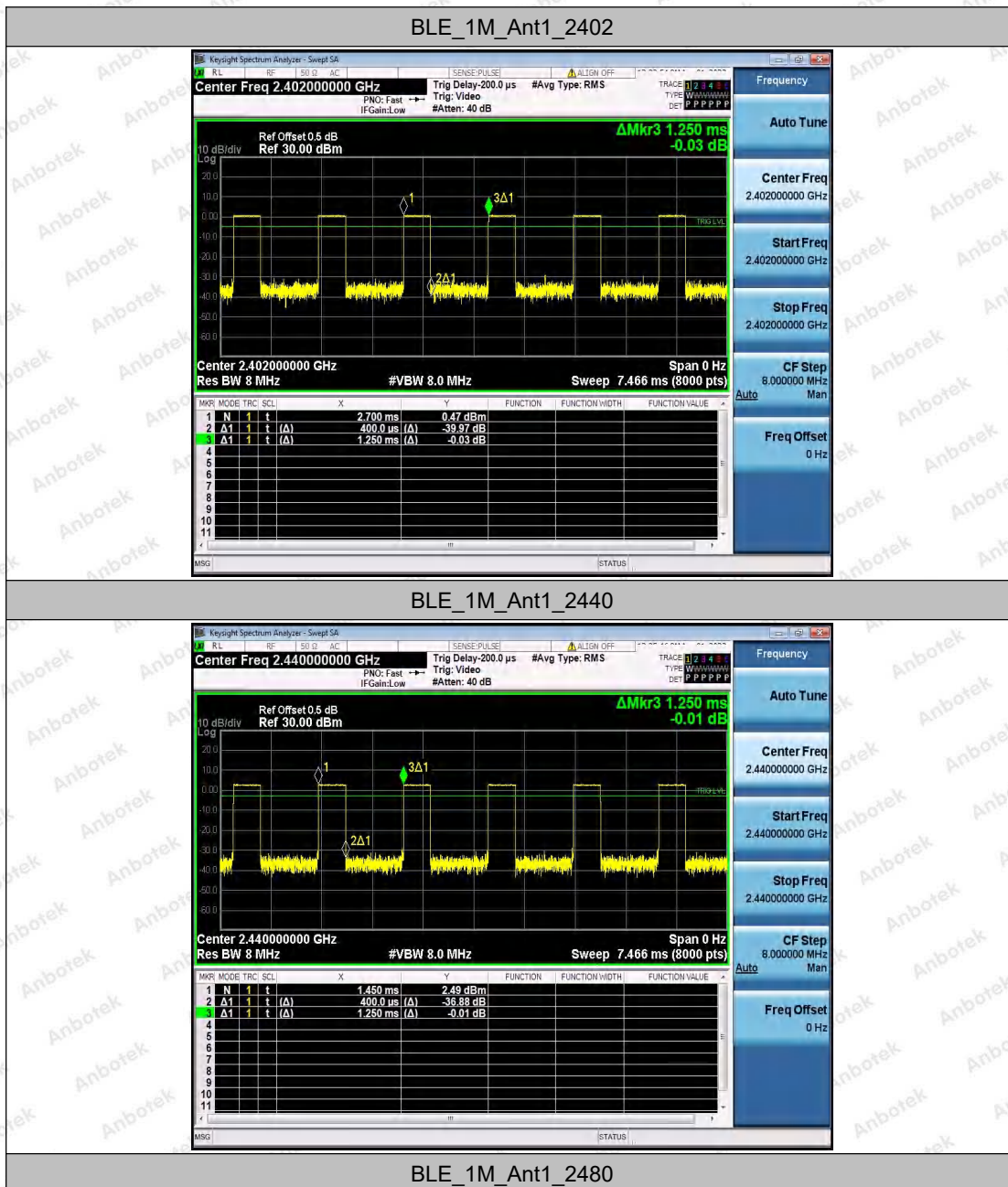
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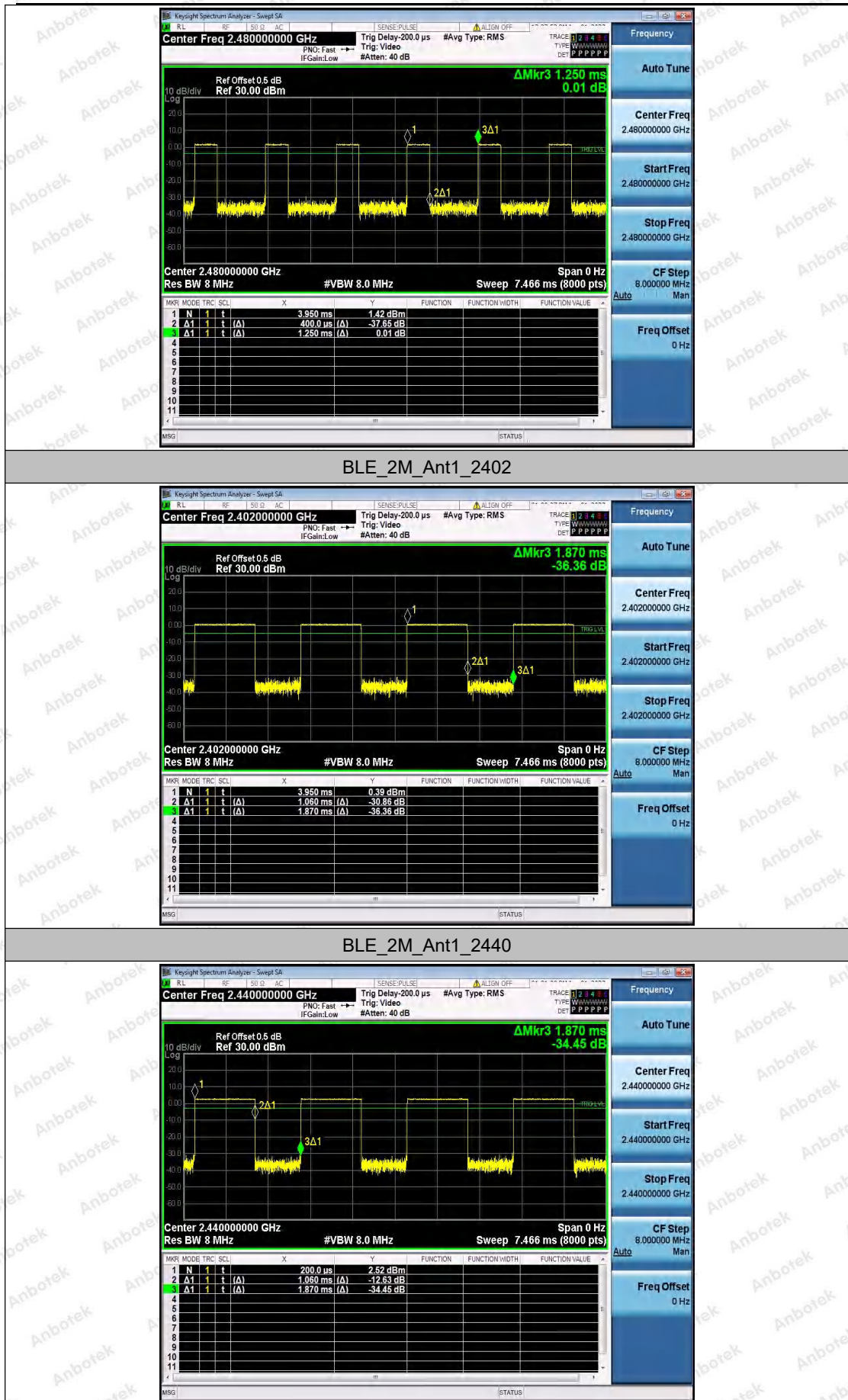
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	x Factor	Limit	Verdict
BLE_1M	Ant1	2402	0.40	1.25	0.3200	32.00	4.95	---	PASS
		2440	0.40	1.25	0.3200	32.00	4.95	---	PASS
		2480	0.40	1.25	0.3200	32.00	4.95	---	PASS
BLE_2M	Ant1	2402	1.06	1.87	0.5668	56.68	2.47	---	PASS
		2440	1.06	1.87	0.5668	56.68	2.47	---	PASS
		2480	1.06	1.87	0.5668	56.68	2.47	---	PASS

Test Graphs

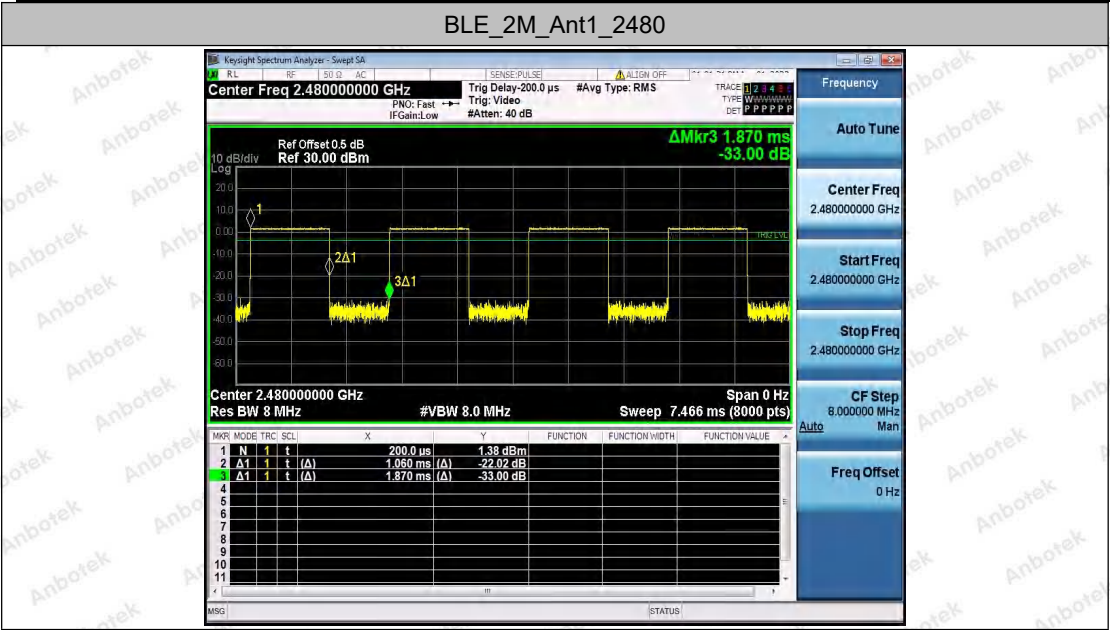




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