

Appendix Test Data

Report No.:	18220WC10182601	Test Date:	2021.8.19
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	57 %
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	2401.616	2402.308	≥0.5	PASS
		2440	0.700	2439.608	2440.308	≥0.5	PASS
		2480	0.808	2479.500	2480.308	≥0.5	PASS
BLE_2M	Ant1	2402	0.924	2401.632	2402.556	≥0.5	PASS
		2440	0.932	2439.620	2440.552	≥0.5	PASS
		2480	1.036	2479.516	2480.552	≥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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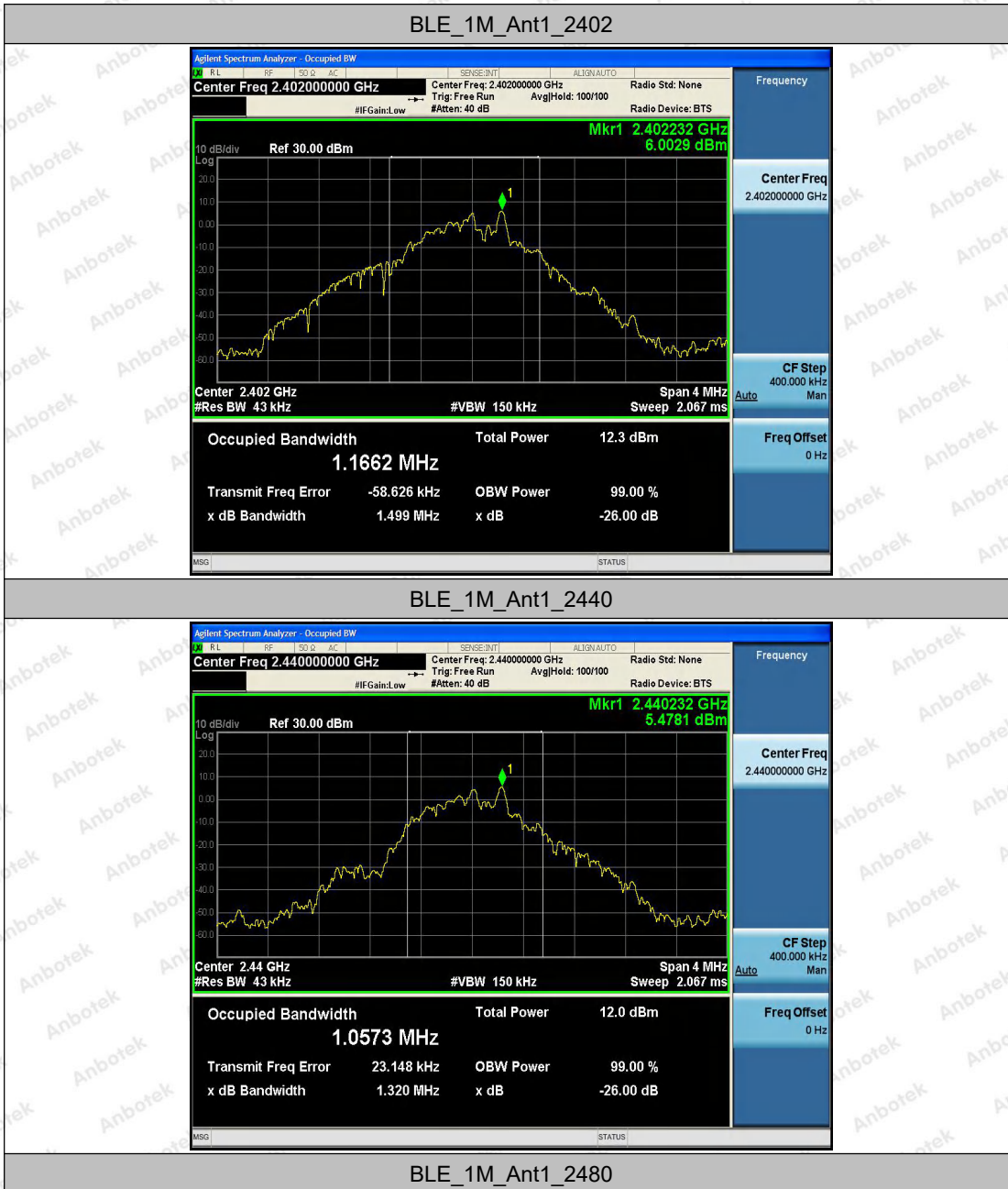
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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.1662	2401.358	2402.524	---	PASS
		2440	1.0573	2439.495	2440.552	---	PASS
		2480	1.4142	2479.405	2480.820	---	PASS
BLE_2M	Ant1	2402	2.0019	2401.006	2403.008	---	PASS
		2440	2.0352	2438.997	2441.032	---	PASS
		2480	1.9833	2479.046	2481.029	---	PASS

Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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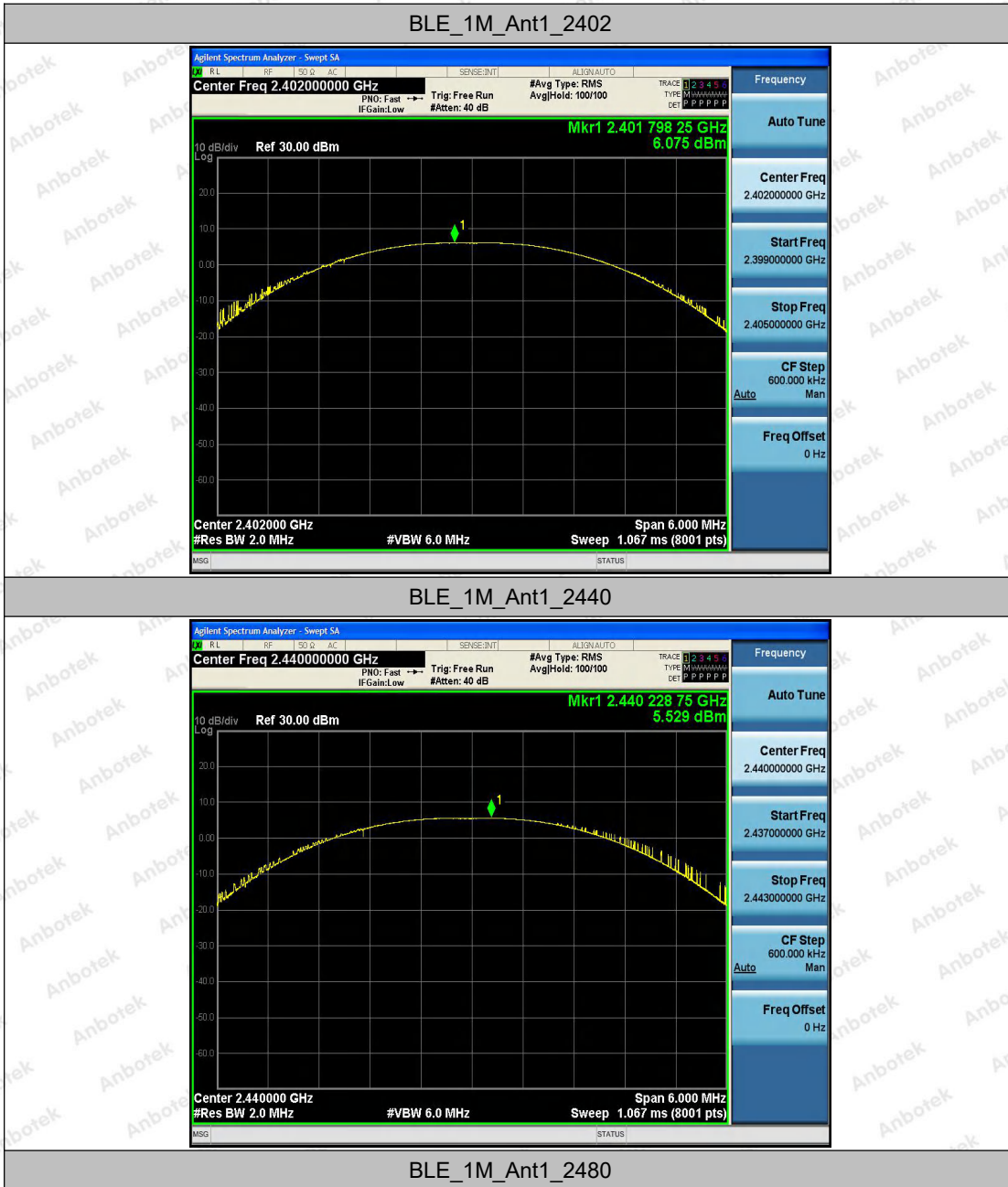
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	6.08	≤30	PASS
		2440	5.53	≤30	PASS
		2480	7.04	≤30	PASS
BLE_2M	Ant1	2402	6.09	≤30	PASS
		2440	5.54	≤30	PASS
		2480	7.06	≤30	PASS

Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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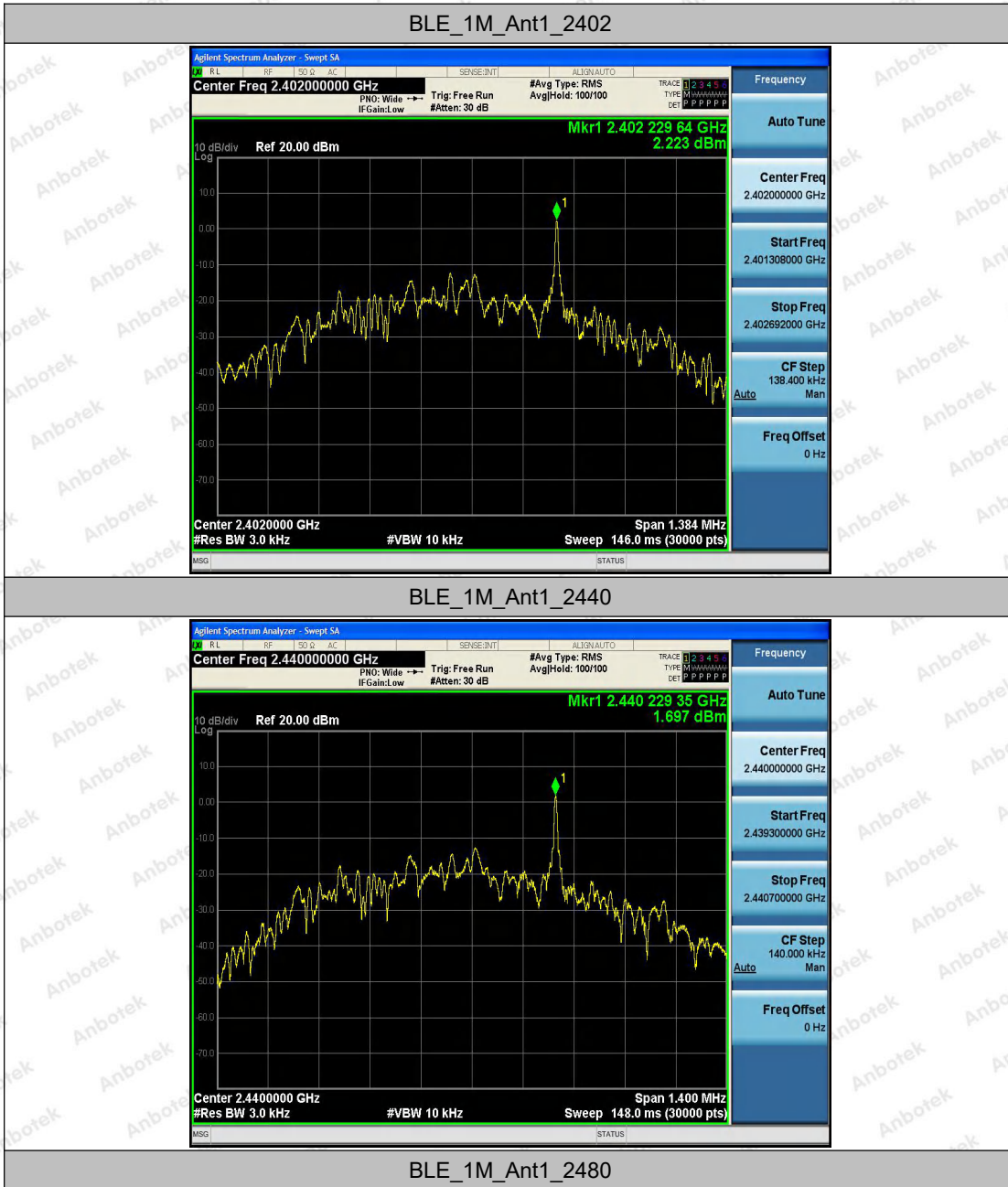
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	2.22	≤8	PASS
		2440	1.7	≤8	PASS
		2480	3.27	≤8	PASS
BLE_2M	Ant1	2402	-3	≤8	PASS
		2440	-3.48	≤8	PASS
		2480	-2.02	≤8	PASS

Test Graphs



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BLE_2M_Ant1_2402



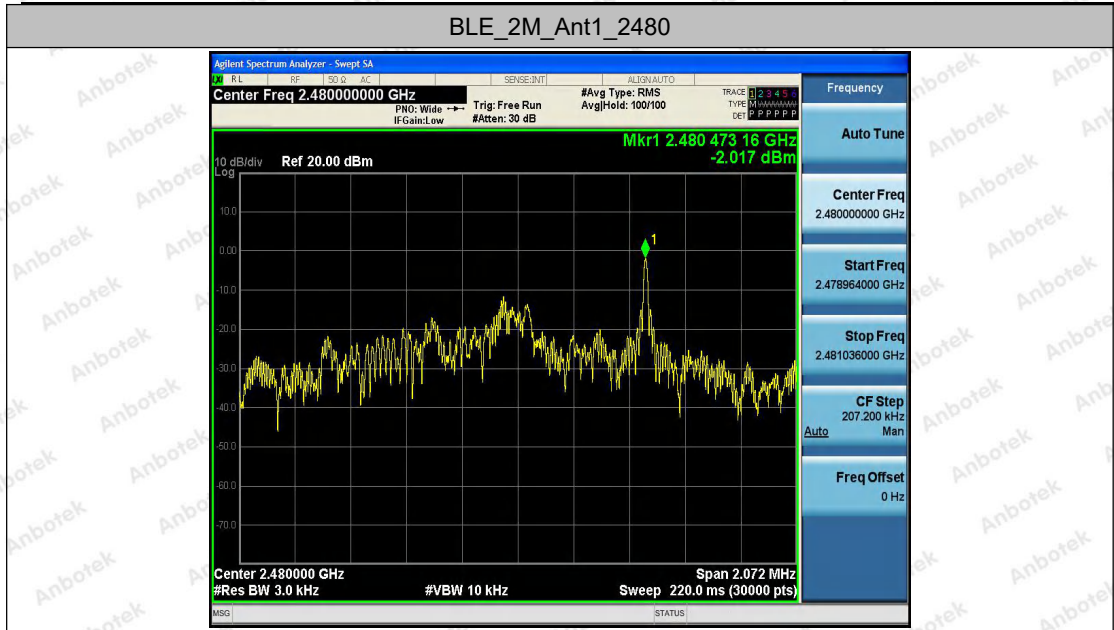
BLE_2M_Ant1_2440



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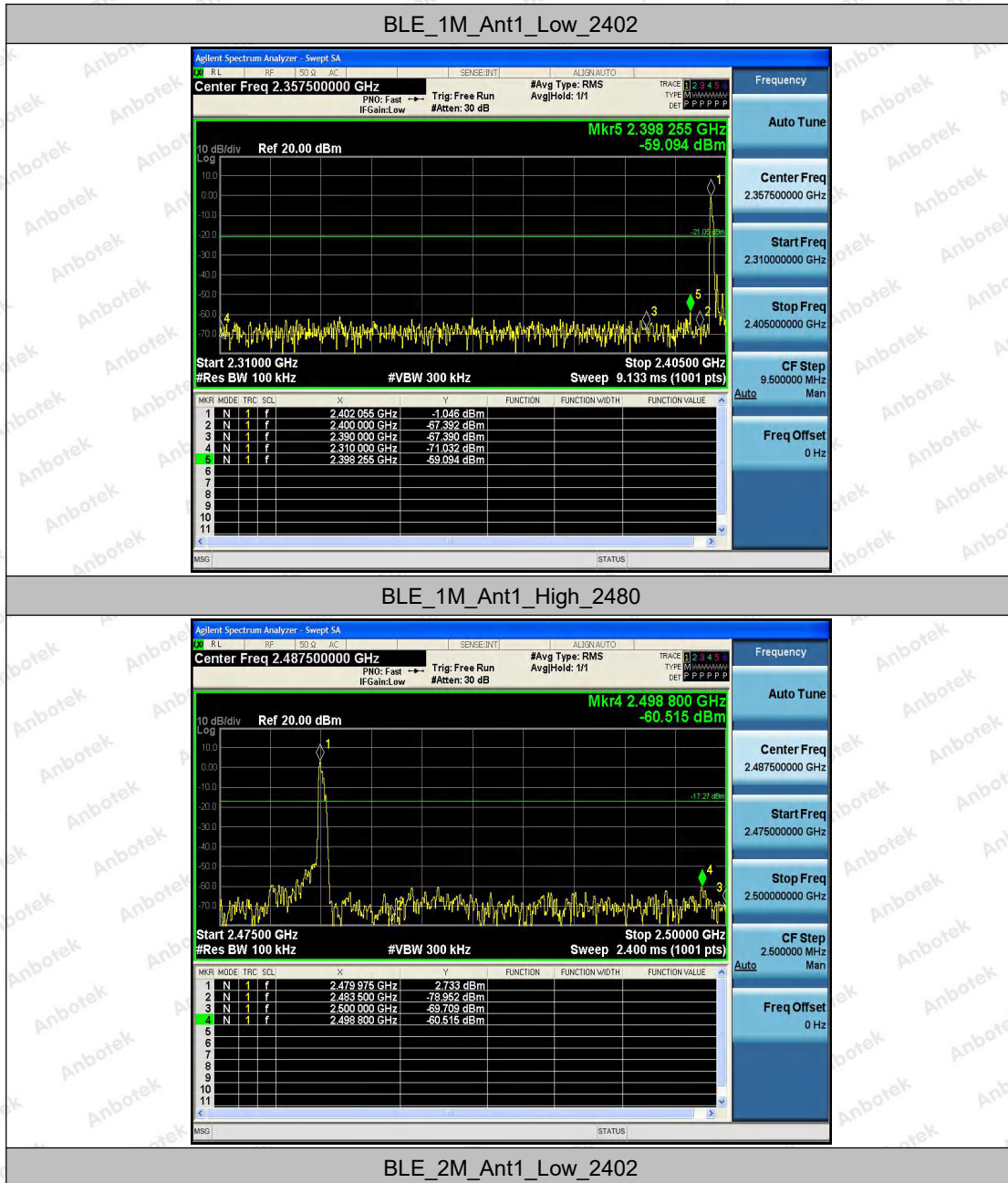
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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.05	-59.09	≤-21.05	PASS
		High	2480	2.73	-60.52	≤-17.27	PASS
BLE_2M	Ant1	Low	2402	5.91	-61.66	≤-14.09	PASS
		High	2480	-5.65	-61.41	≤-25.65	PASS

Test Graphs

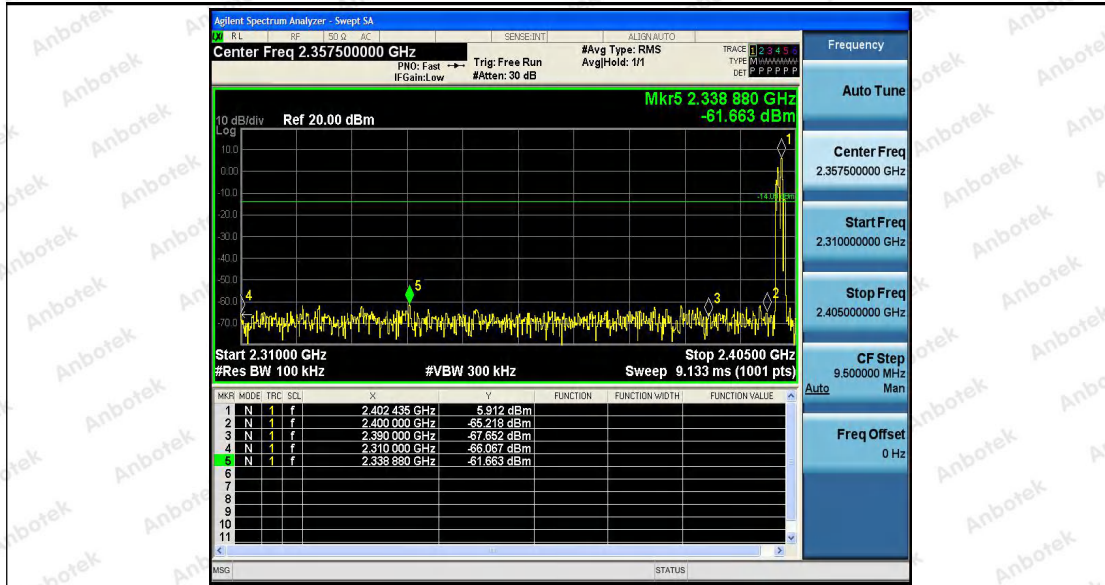


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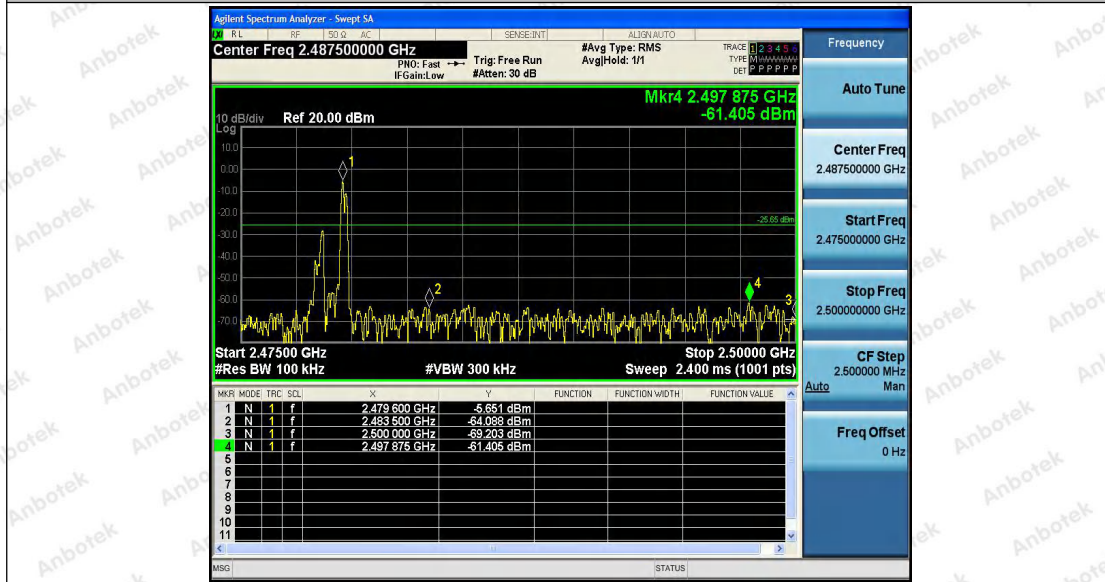
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BLE_2M_Ant1_High_2480



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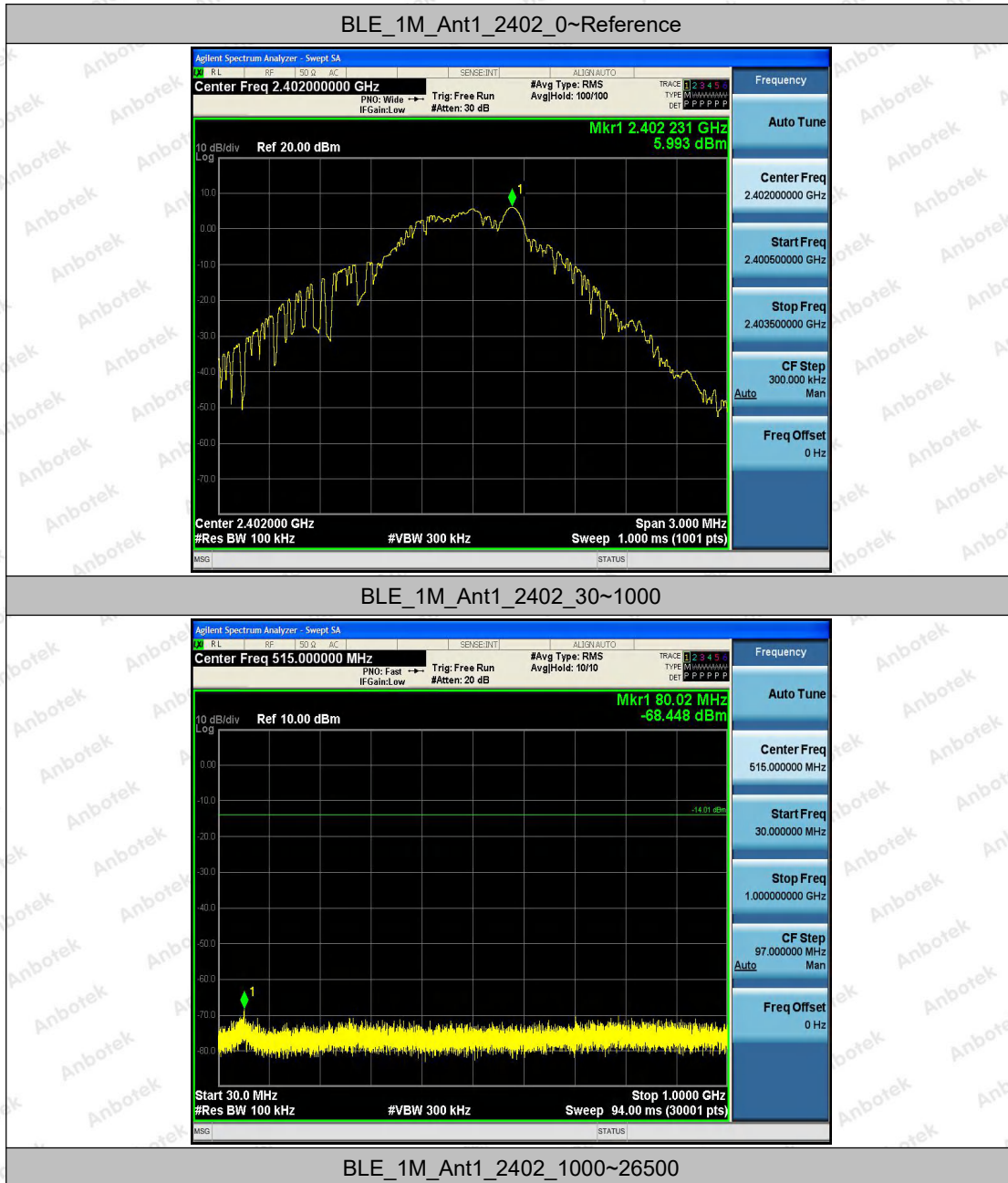
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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	5.99	5.99	---	PASS
			30~1000	5.99	-68.45	≤-14.01	PASS
			1000~265 00	5.99	-47.62	≤-14.01	PASS
		2440	Reference	5.47	5.47	---	PASS
			30~1000	5.47	-69.82	≤-14.53	PASS
			1000~265 00	5.47	-47.37	≤-14.53	PASS
		2480	Reference	7.01	7.01	---	PASS
			30~1000	7.01	-68.61	≤-12.99	PASS
			1000~265 00	7.01	-45.92	≤-12.99	PASS
BLE_2M	Ant1	2402	Reference	5.99	5.99	---	PASS
			30~1000	5.99	-65.97	≤-14.01	PASS
			1000~265 00	5.99	-48.09	≤-14.01	PASS
		2440	Reference	5.49	5.49	---	PASS
			30~1000	5.49	-68.69	≤-14.51	PASS
			1000~265 00	5.49	-52.33	≤-14.51	PASS
		2480	Reference	7.01	7.01	---	PASS
			30~1000	7.01	-67.91	≤-12.99	PASS
			1000~265 00	7.01	-47.24	≤-12.99	PASS

Test Graphs

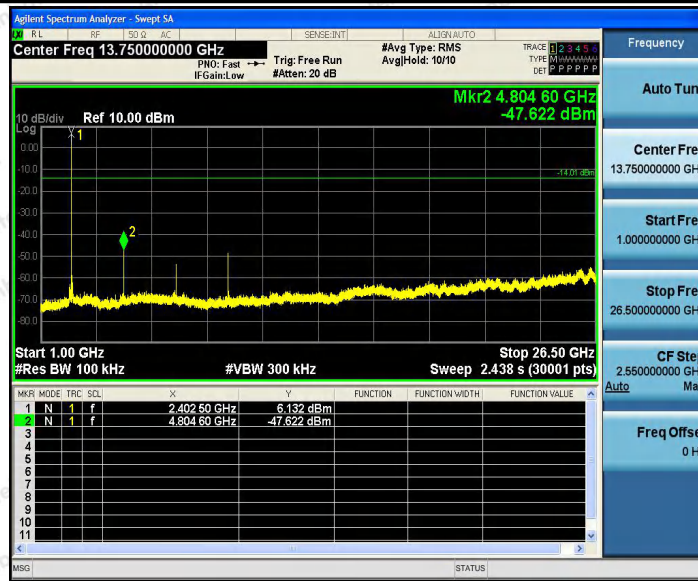


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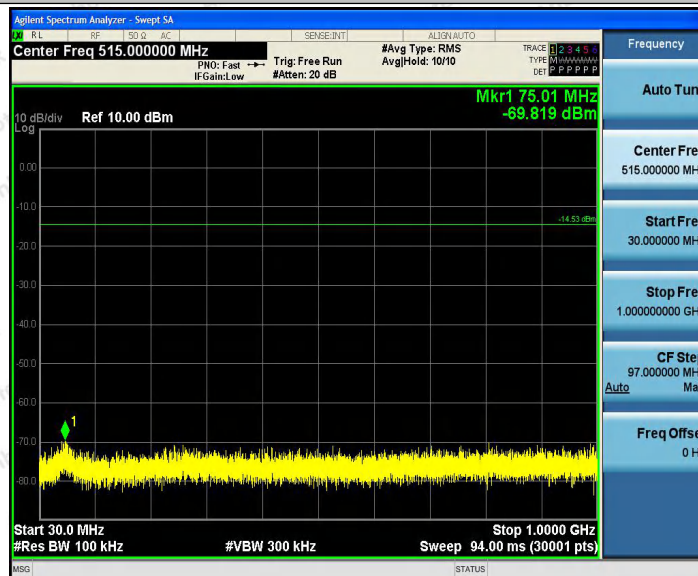
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



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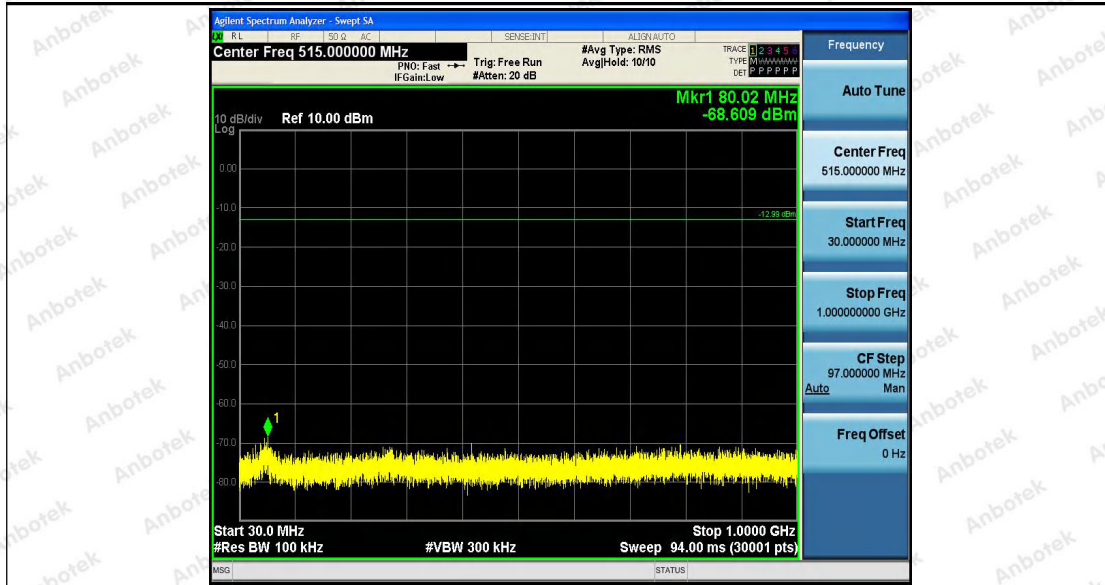
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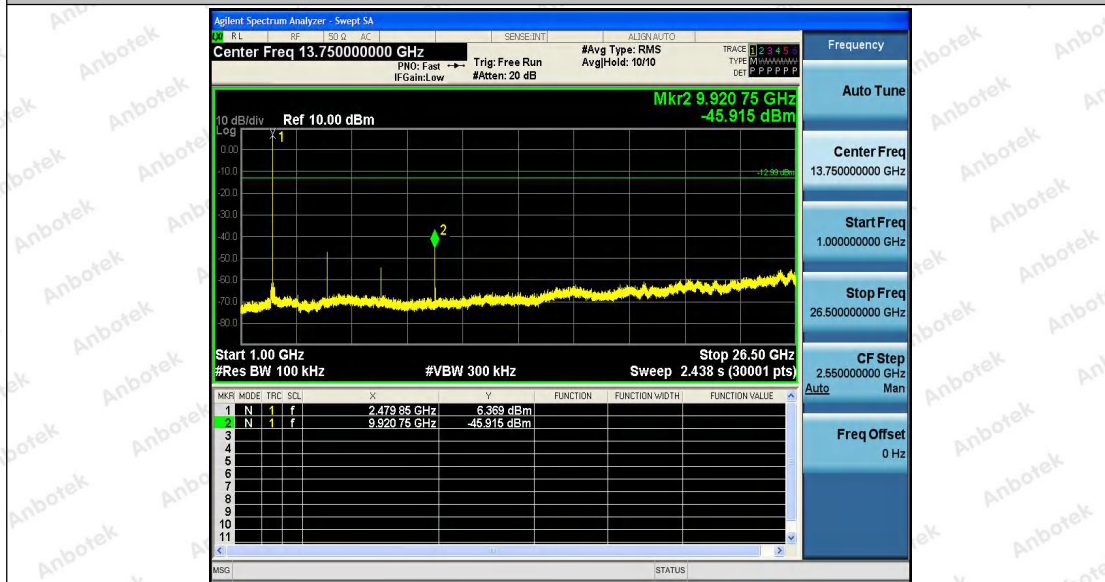
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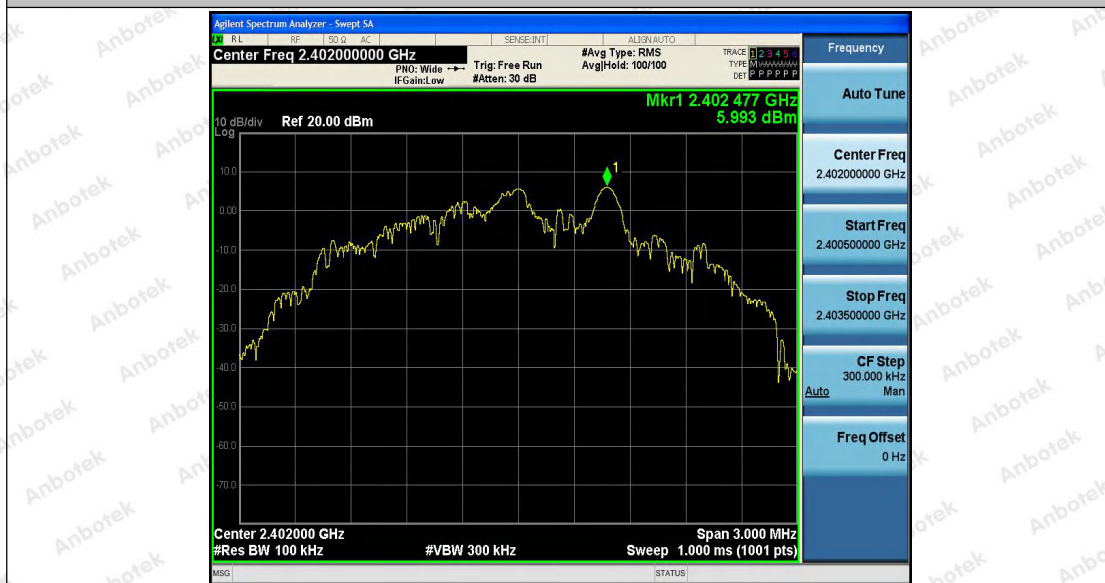
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BLE_1M_Ant1_2480_1000~26500



BLE_2M_Ant1_2402_0~Reference

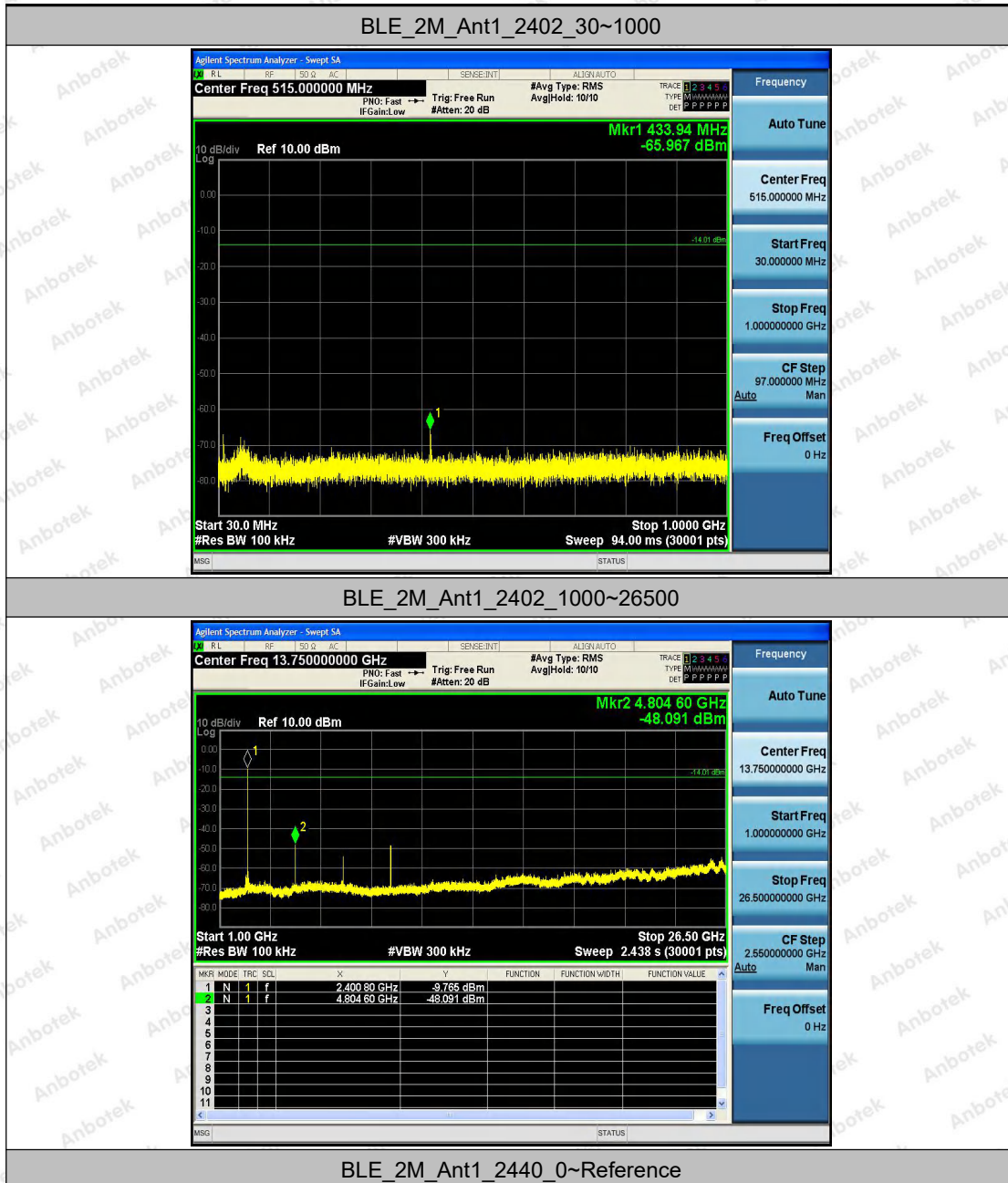


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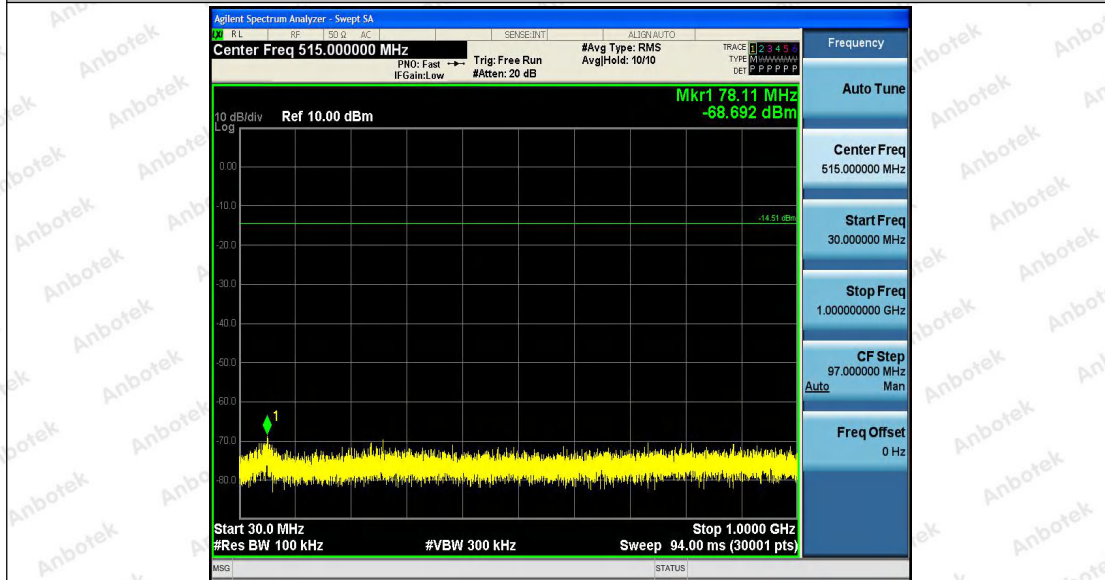
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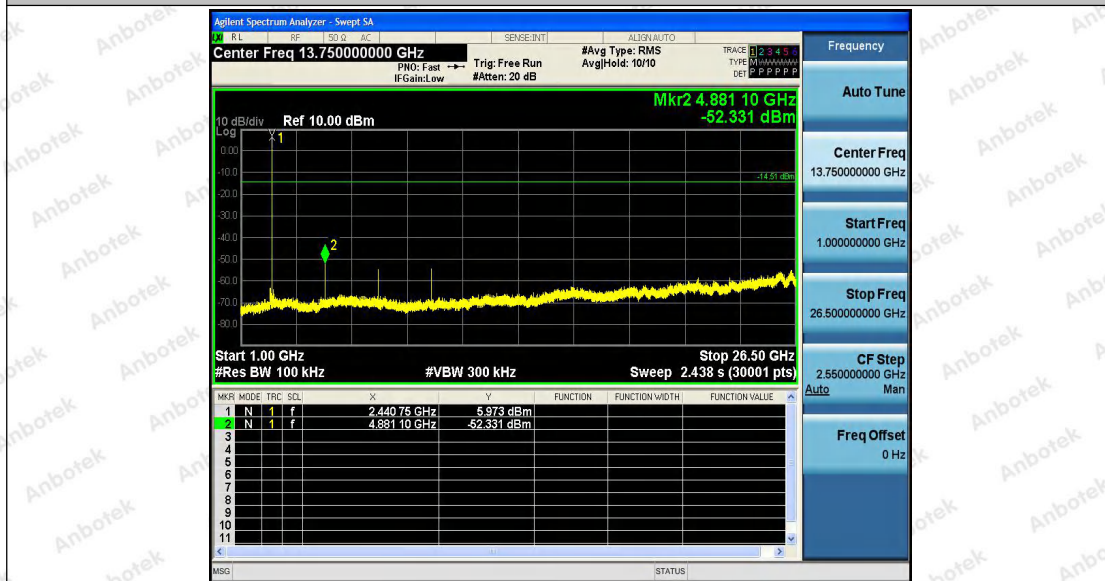
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BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500

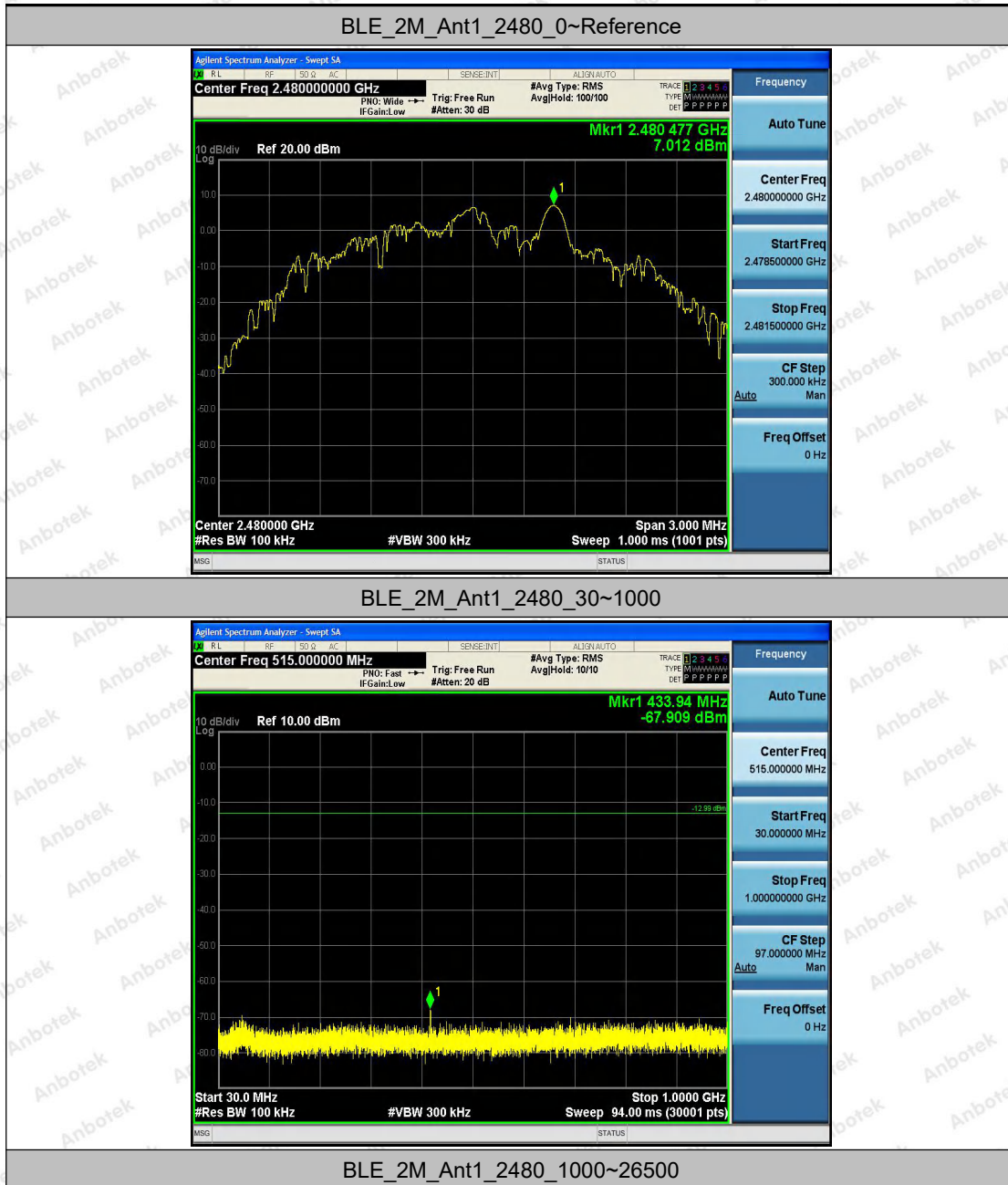


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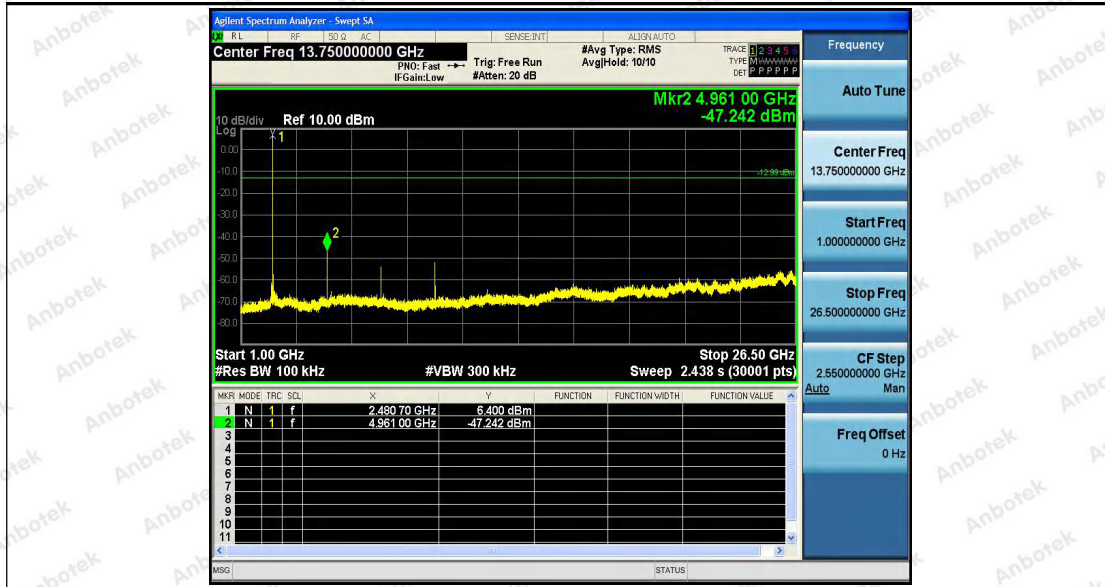


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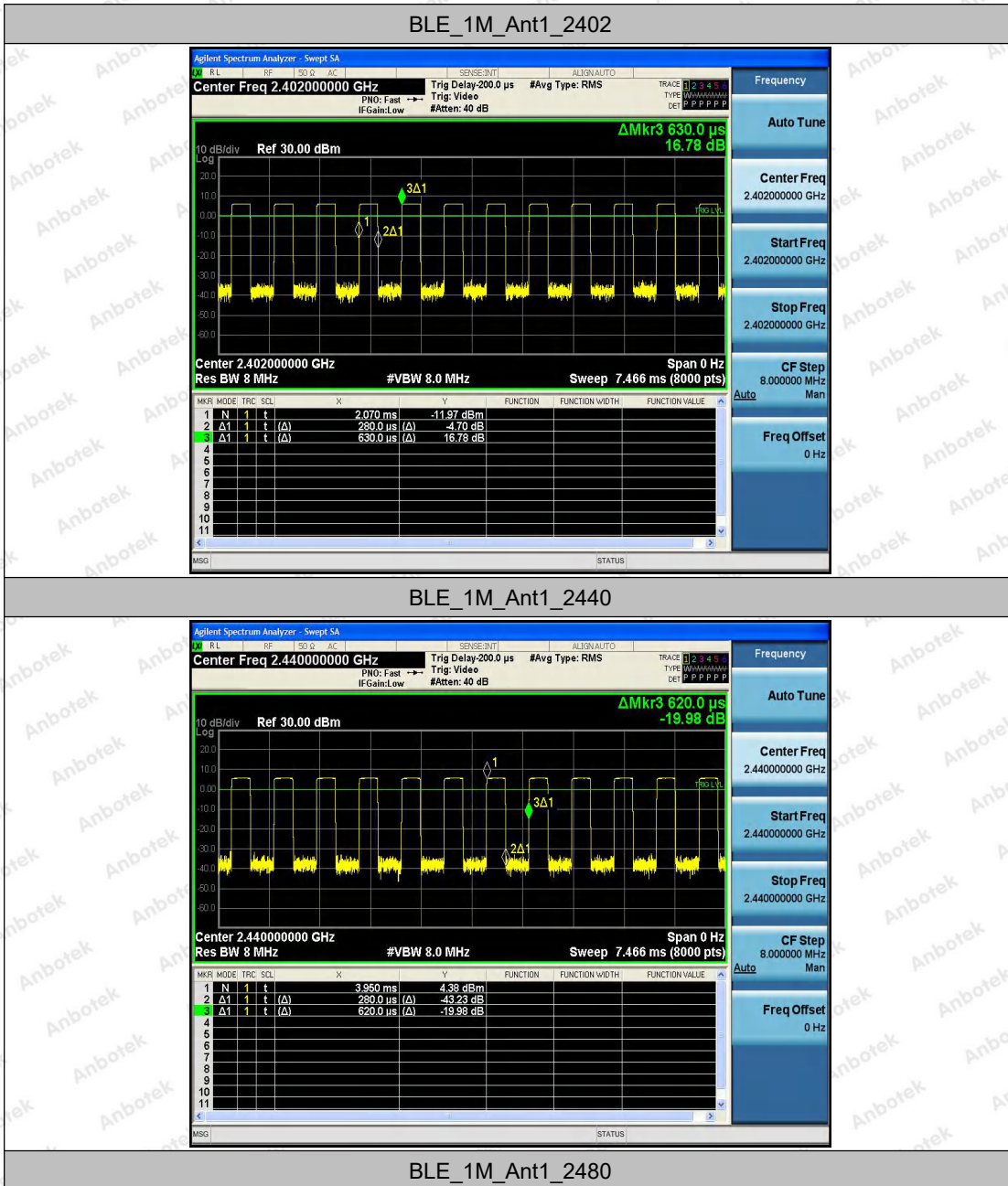
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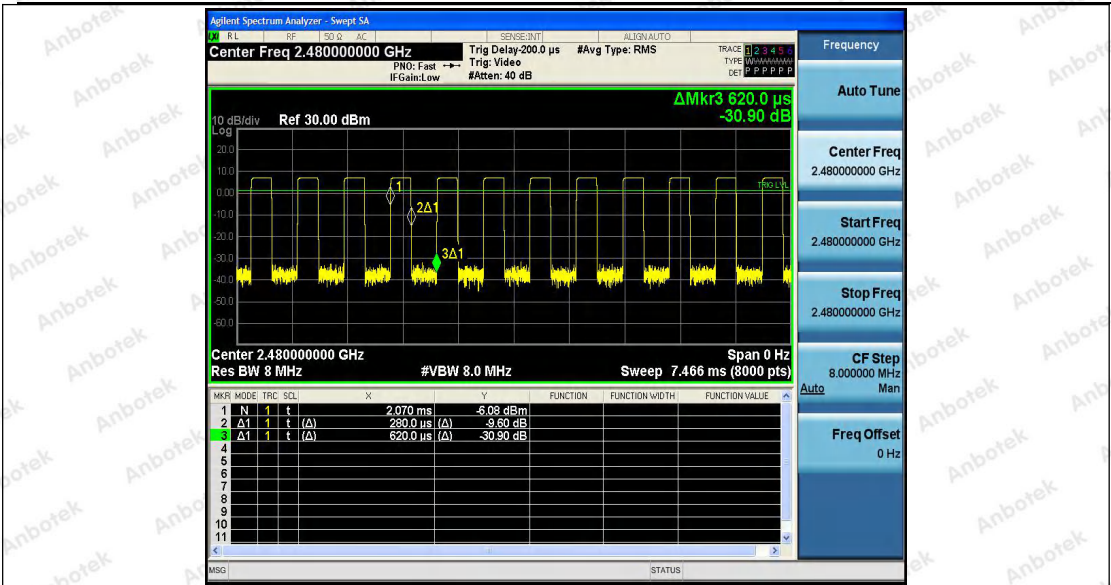
Appendix G: Duty Cycle

Test Result

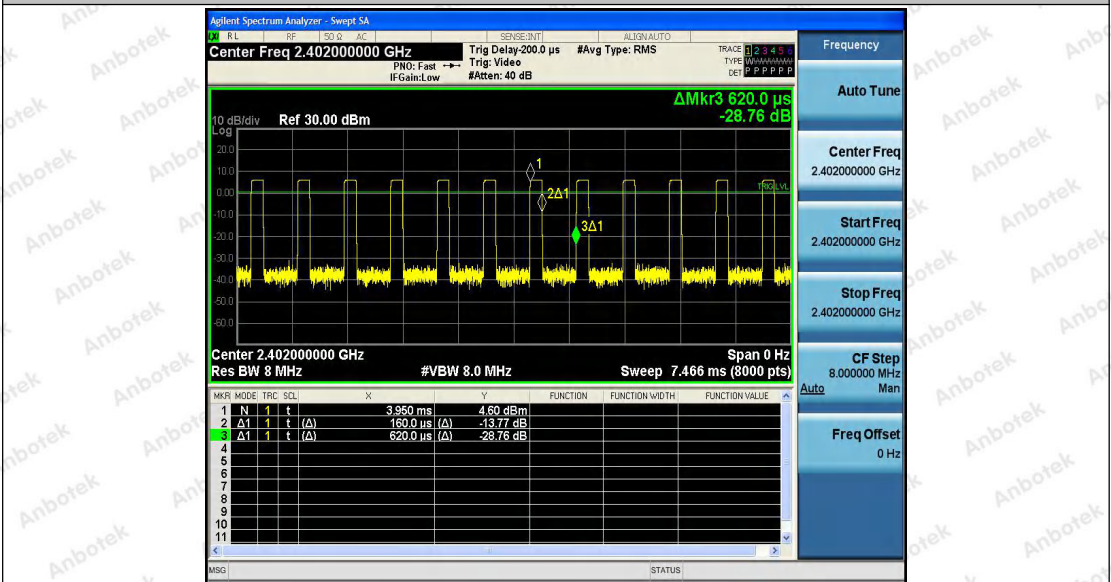
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.28	0.63	0.444 4	44.44	3.52	---	PASS
		2440	0.28	0.62	0.451 6	45.16	3.45	---	PASS
		2480	0.28	0.62	0.451 6	45.16	3.45	---	PASS
BLE_2M	Ant1	2402	0.16	0.62	0.258 1	25.81	5.88	---	PASS
		2440	0.17	0.63	0.269 8	26.98	5.69	---	PASS
		2480	0.17	0.63	0.269 8	26.98	5.69	---	PASS

Test Graphs

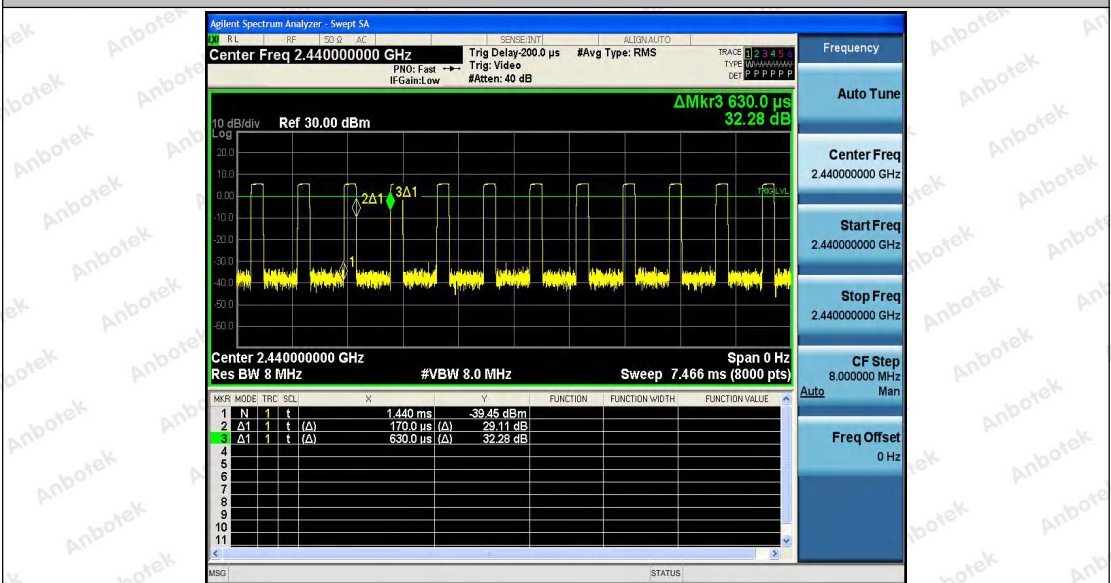




BLE_2M_Ant1_2402



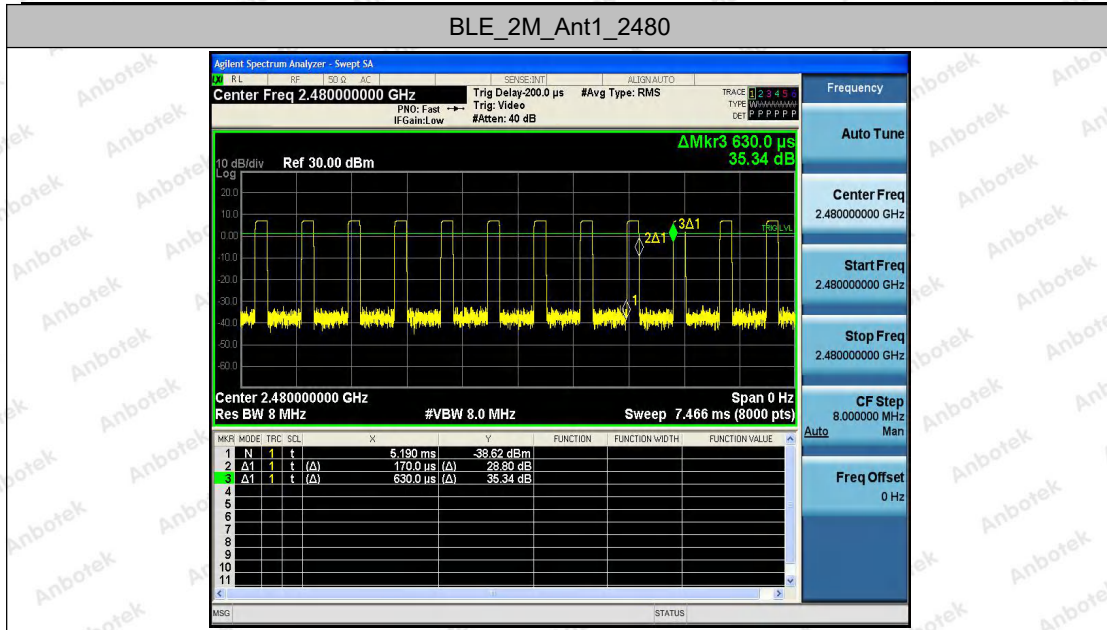
BLE_2M_Ant1_2440



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