

Appendix Test Data

Report No.:	18220WC30248801	Test Sample No.:	1-2-2
Start Test Date:	2023.12.04	Finish Test Date:	2023.12.06
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.2°C	Relative Humidity:	43%
Pressure:	101kPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.508	2401.700	2402.208	0.5	PASS
		2440	0.524	2439.692	2440.216	0.5	PASS
		2480	0.532	2479.688	2480.220	0.5	PASS
BLE_2M	Ant1	2402	0.860	2401.440	2402.300	0.5	PASS
		2440	0.860	2439.436	2440.296	0.5	PASS
		2480	0.856	2479.428	2480.284	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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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0394	2401.5088	2402.5482
		2440	1.0788	2439.4792	2440.5580
		2480	1.1481	2479.4196	2480.5677
BLE_2M	Ant1	2402	2.0576	2401.0172	2403.0748
		2440	2.0642	2439.0133	2441.0775
		2480	2.0839	2478.9987	2481.0826



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 Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.21	≤30	PASS
		2440	3.56	≤30	PASS
		2480	3.66	≤30	PASS
BLE_2M	Ant1	2402	3.20	≤30	PASS
		2440	3.56	≤30	PASS
		2480	3.67	≤30	PASS



Test Graphs Peak

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

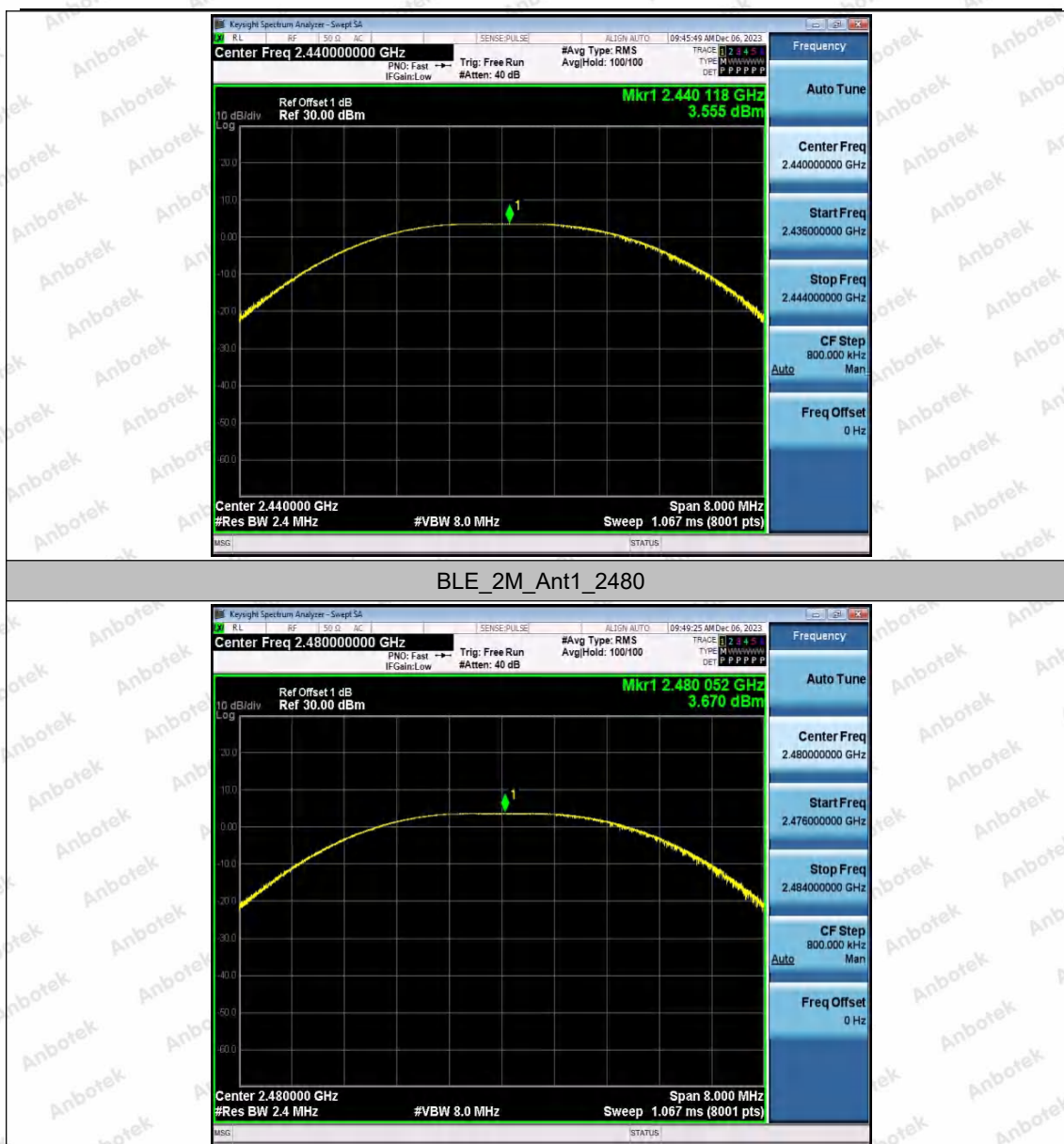
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.62	≤8.00	PASS
		2440	-16.82	≤8.00	PASS
		2480	-16.68	≤8.00	PASS
BLE_2M	Ant1	2402	-19.28	≤8.00	PASS
		2440	-18.88	≤8.00	PASS
		2480	-18.64	≤8.00	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

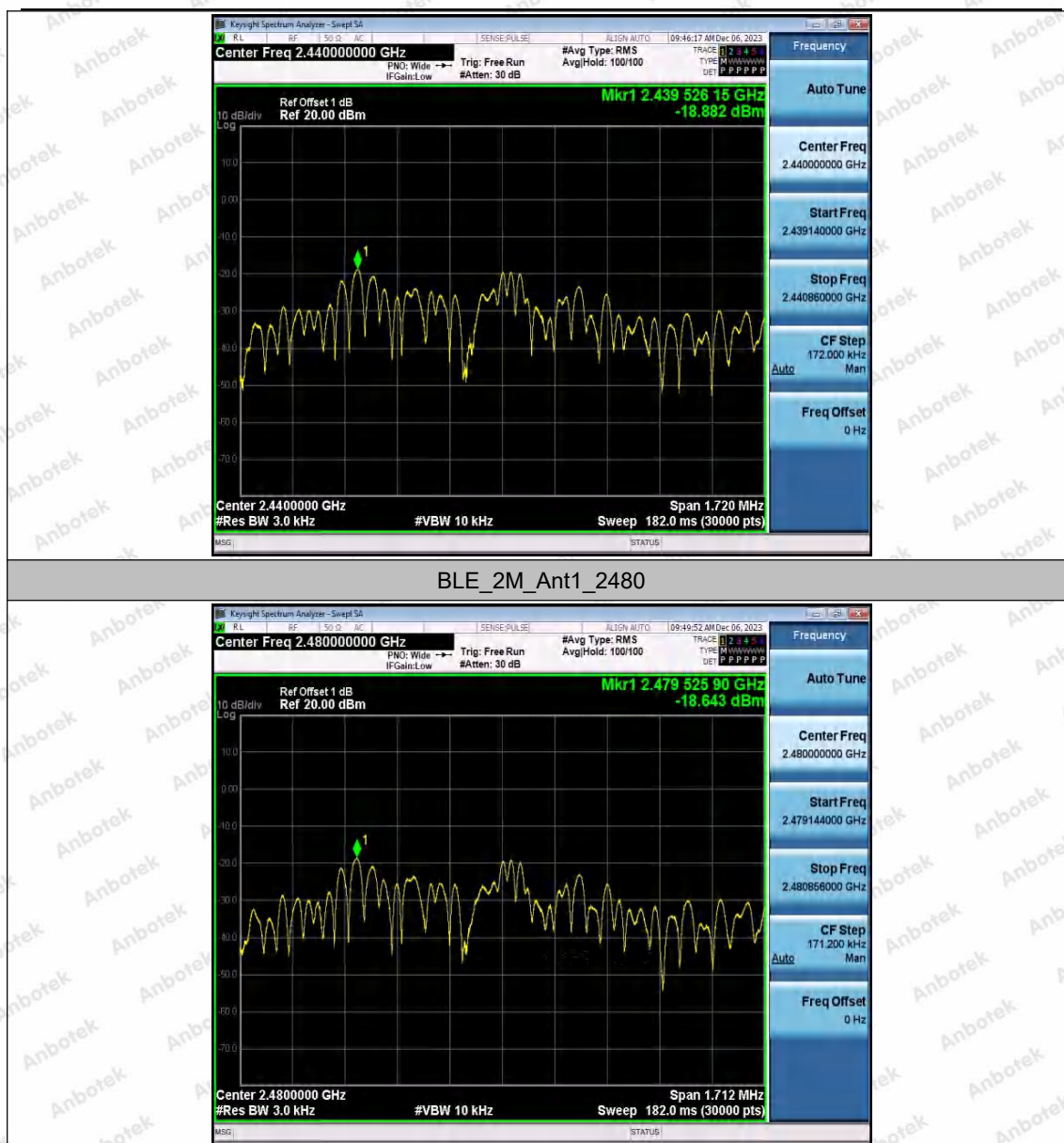
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Appendix E: Band edge measurements

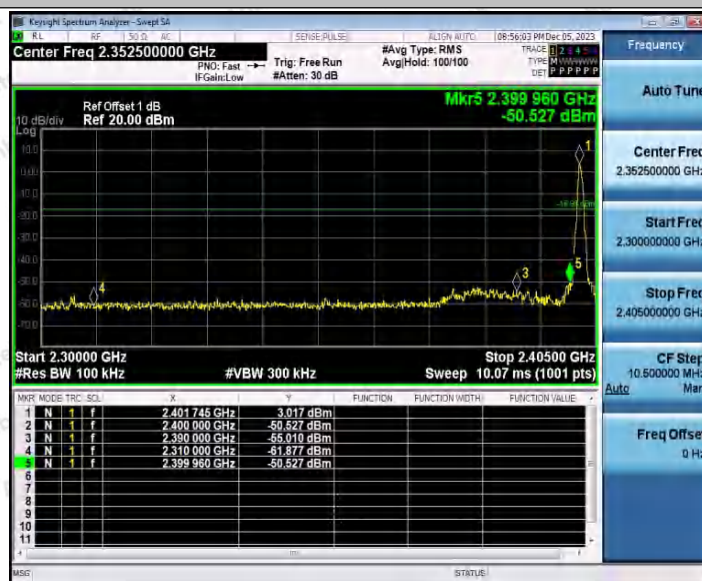
Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	3.02	-50.53	≤-16.98	PASS
		High	2480	3.60	-52.75	≤-16.4	PASS
BLE_2M	Ant1	Low	2402	1.83	-33.38	≤-18.18	PASS
		High	2480	3.04	-45.79	≤-16.97	PASS

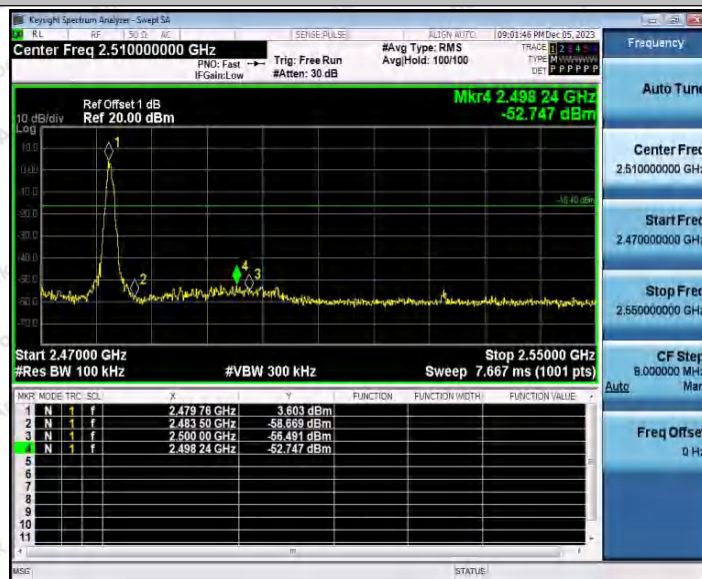


Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



BLE_2M_Ant1_Low_2402

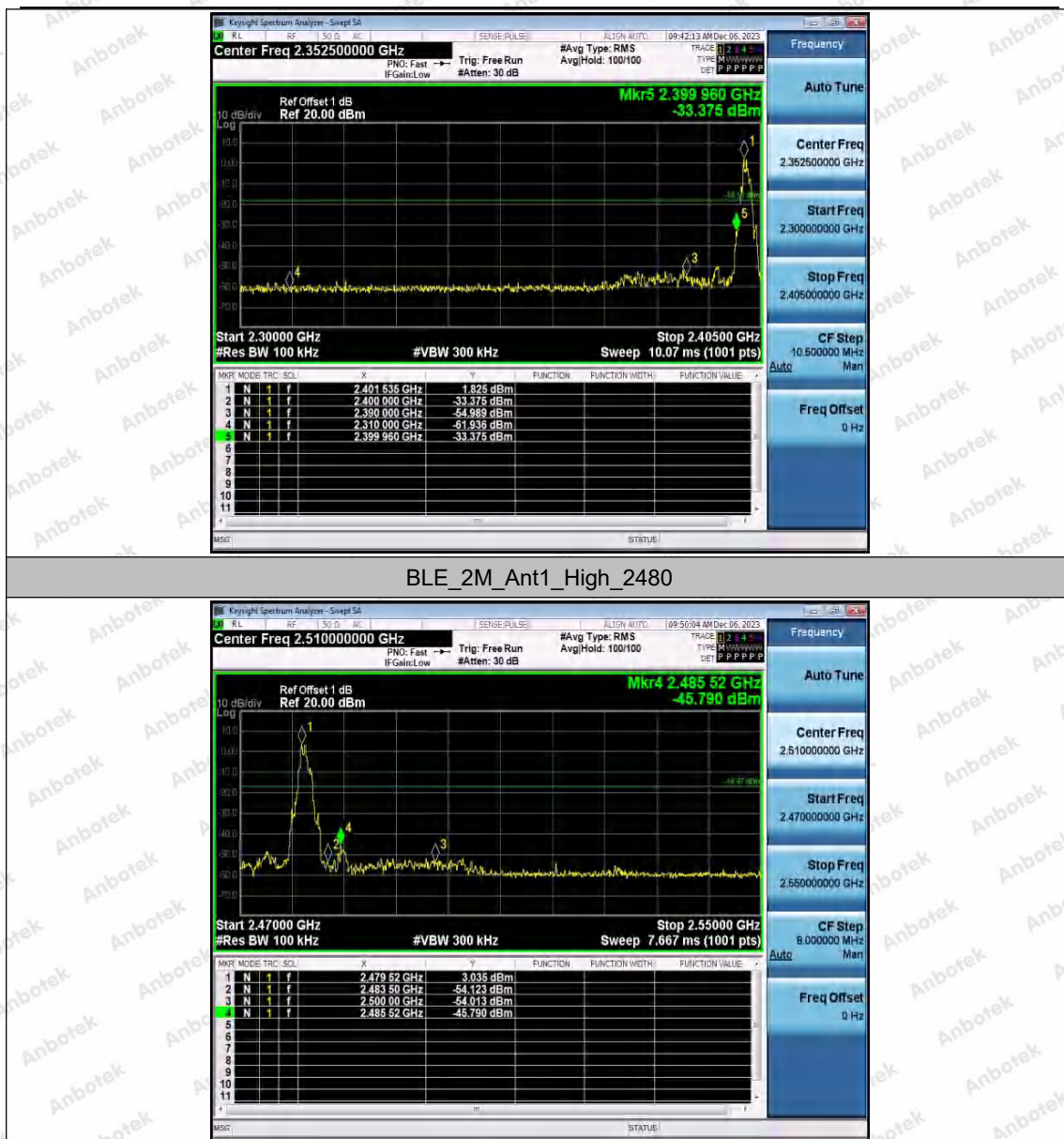
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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	3.03	3.03	---	PASS
			30~1000	3.03	-68.67	≤-16.97	PASS
			1000~26500	3.03	-44.15	≤-16.97	PASS
		2440	Reference	3.40	3.40	---	PASS
			30~1000	3.40	-68.51	≤-16.6	PASS
			1000~26500	3.40	-45.17	≤-16.6	PASS
		2480	Reference	3.48	3.48	---	PASS
			30~1000	3.48	-68.89	≤-16.52	PASS
			1000~26500	3.48	-44.27	≤-16.52	PASS
BLE_2M	Ant1	2402	Reference	2.30	2.30	---	PASS
			30~1000	2.30	-68.65	≤-17.7	PASS
			1000~26500	2.30	-46.87	≤-17.7	PASS
		2440	Reference	2.68	2.68	---	PASS
			30~1000	2.68	-69.26	≤-17.32	PASS
			1000~26500	2.68	-50.99	≤-17.32	PASS
		2480	Reference	2.91	2.91	---	PASS
			30~1000	2.91	-68.76	≤-17.09	PASS
			1000~26500	2.91	-46.75	≤-17.09	PASS



Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

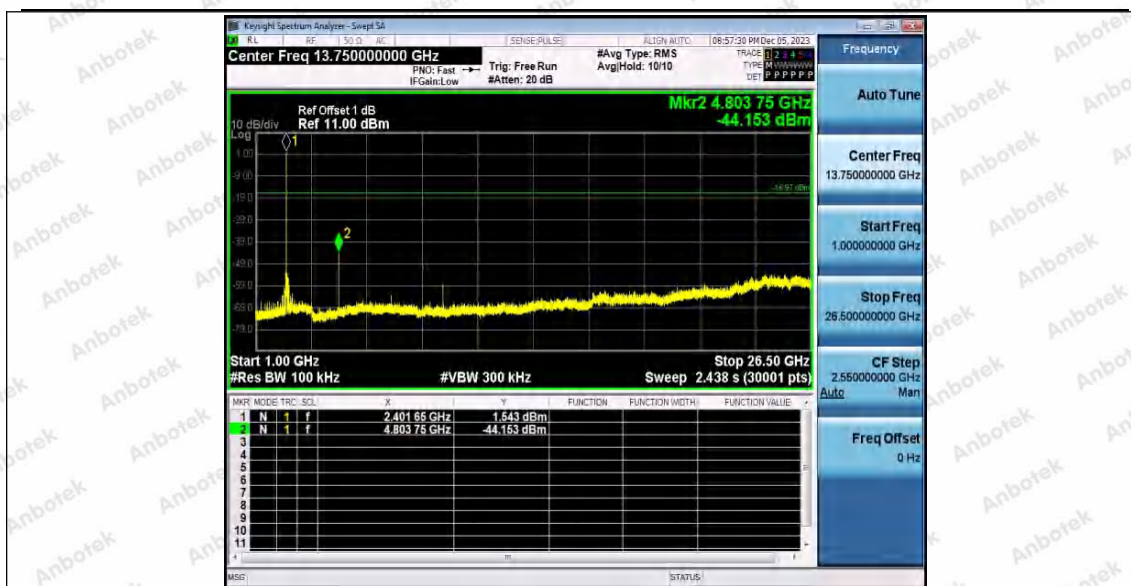
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BLE_1M_Ant1_2440_0~Reference

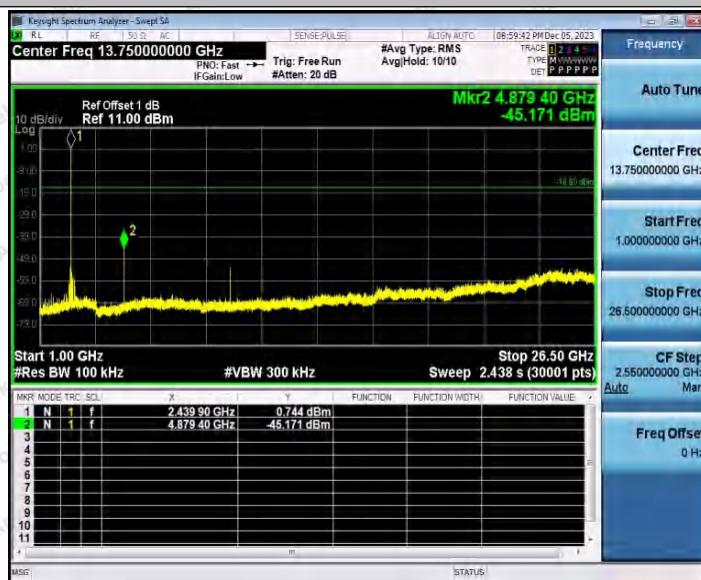


BLE_1M_Ant1_2440_30~1000





BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

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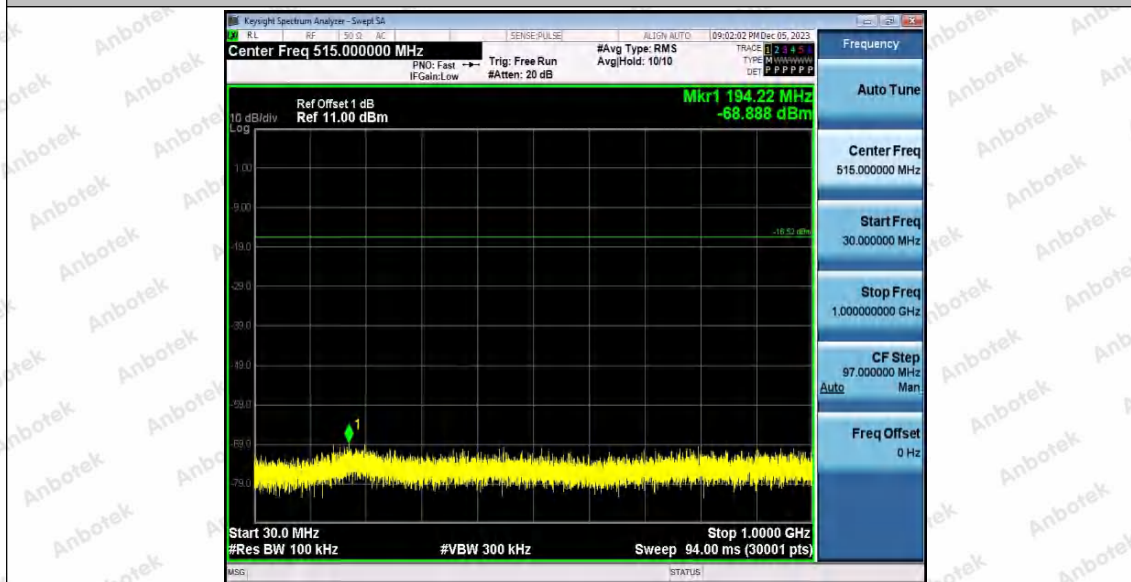


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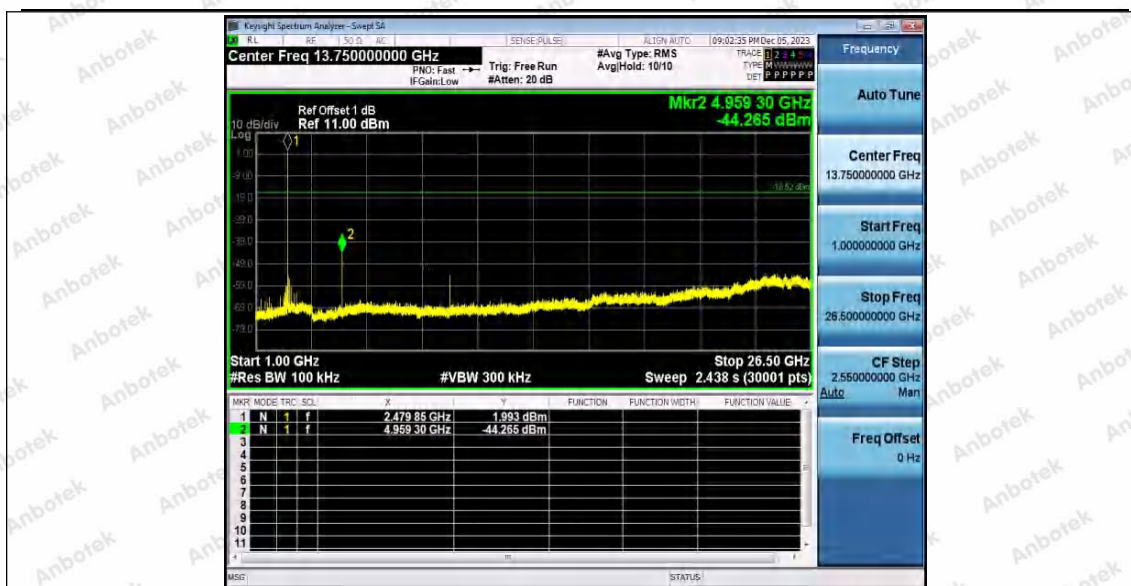


BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500





BLE_2M_Ant1_2402_0~Reference

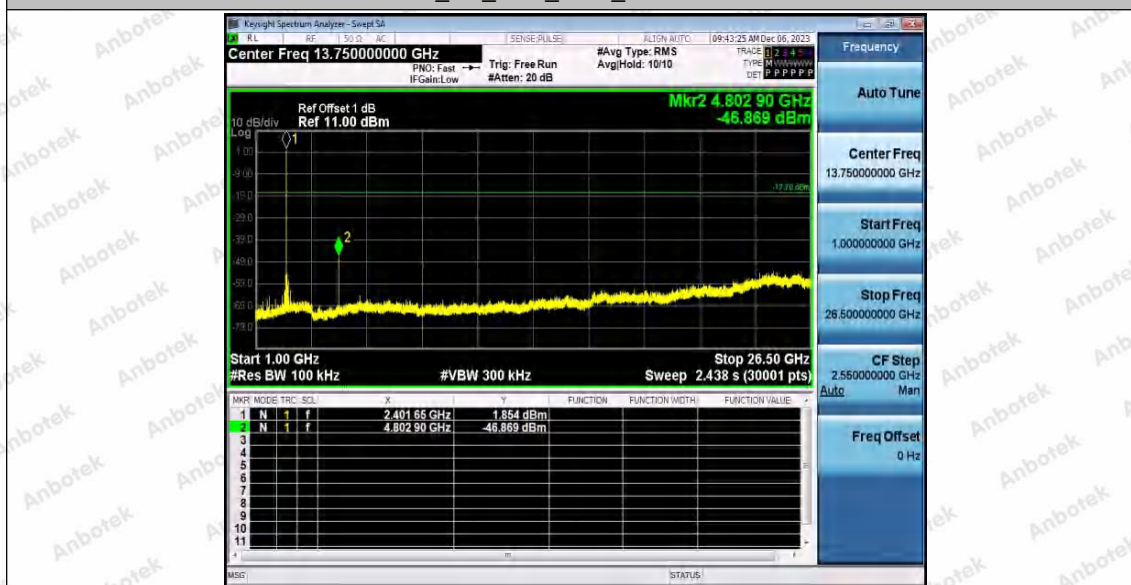


BLE_2M_Ant1_2402_30~1000





BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference





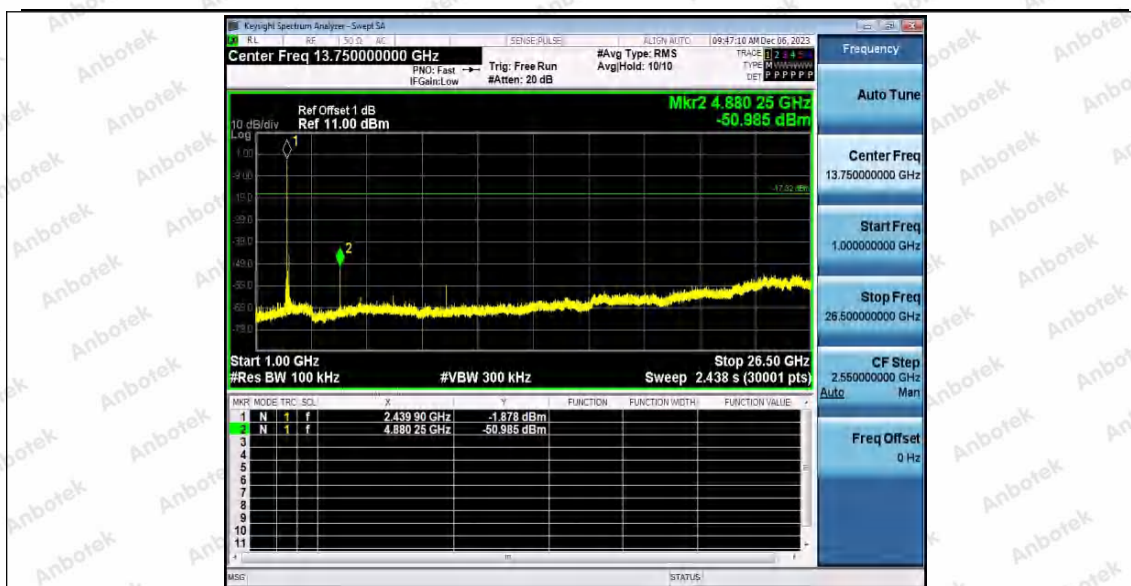
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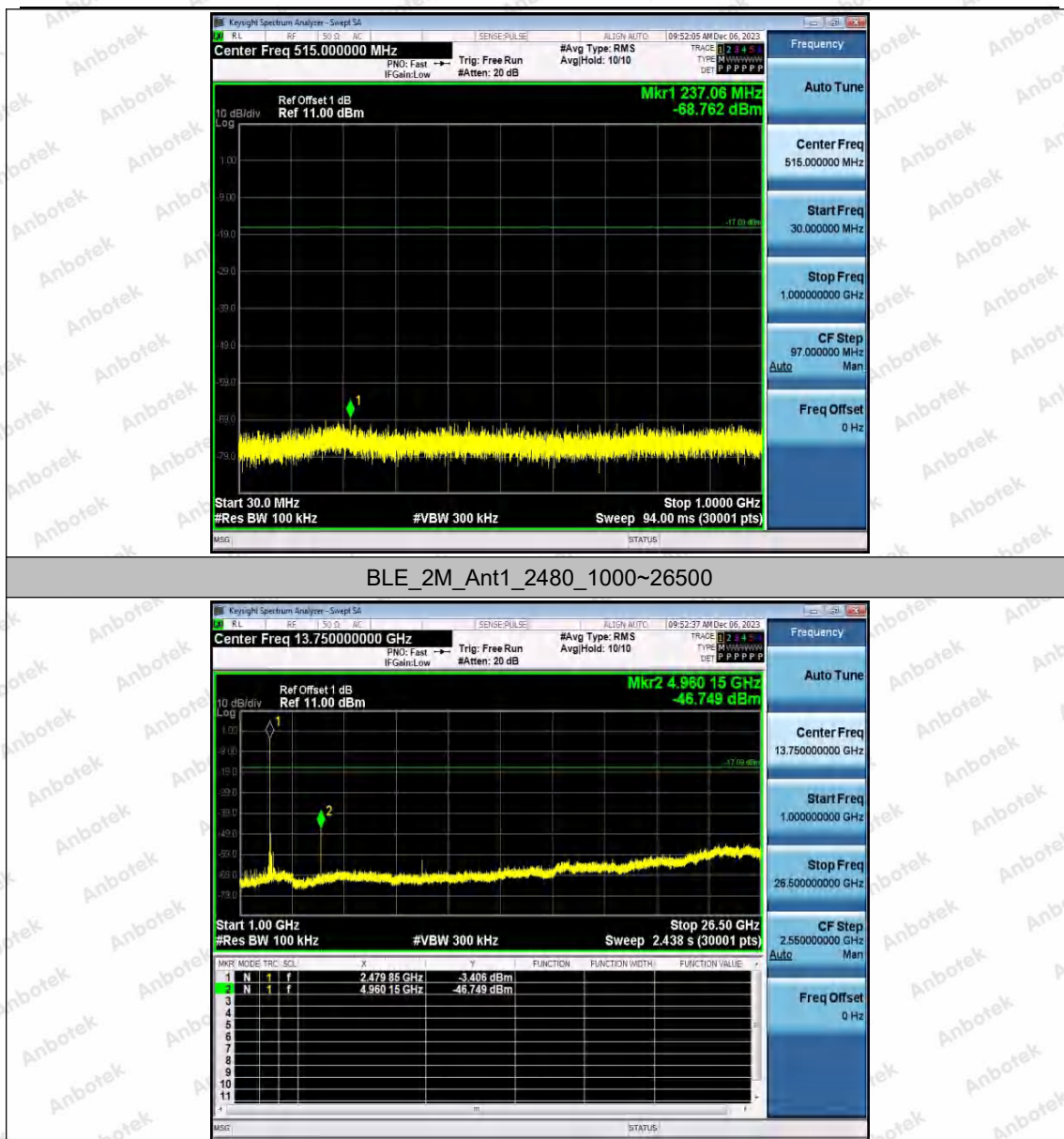


BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000





BLE_2M_Ant1_2480_1000~26500

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Appendix G: Duty Cycle

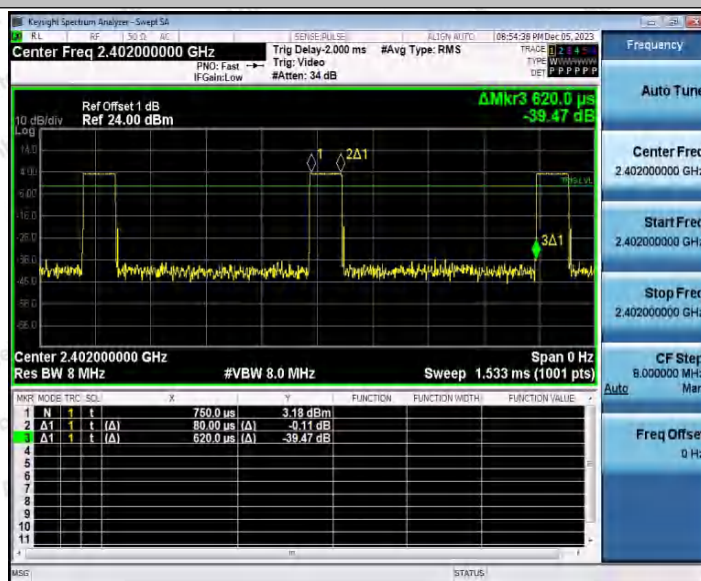
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.08	0.62	12.90	8.89
		2440	0.09	0.63	14.29	8.45
		2480	0.08	0.62	12.90	8.89
BLE_2M	Ant1	2402	0.06	0.63	9.52	10.21
		2440	0.05	0.62	8.06	10.94
		2480	0.06	0.63	9.52	10.21

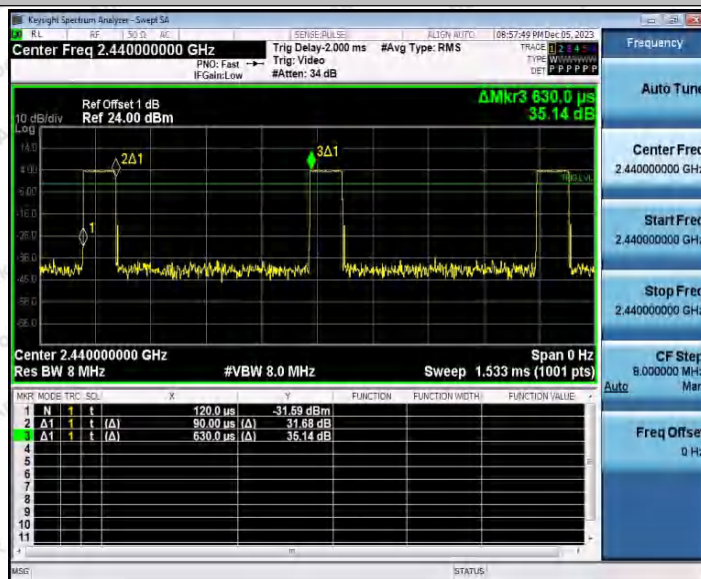


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

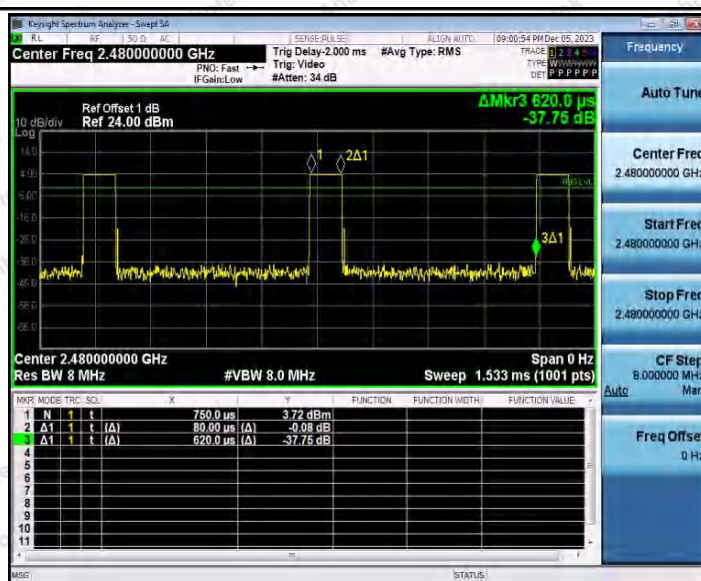
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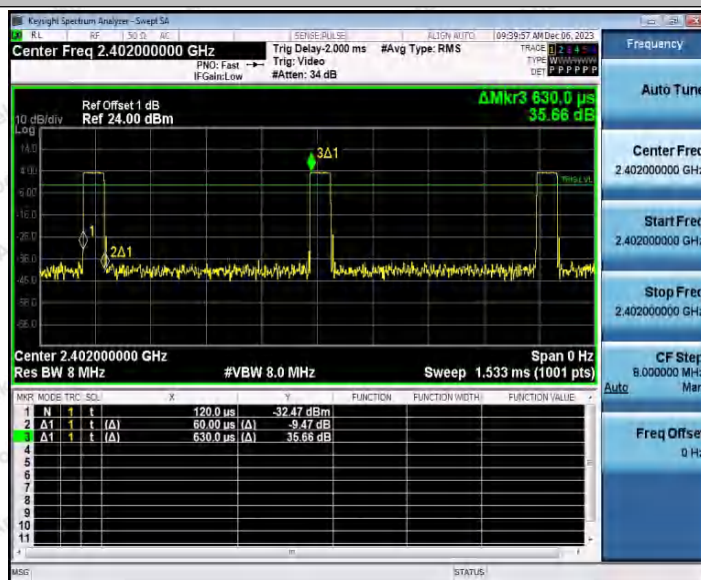


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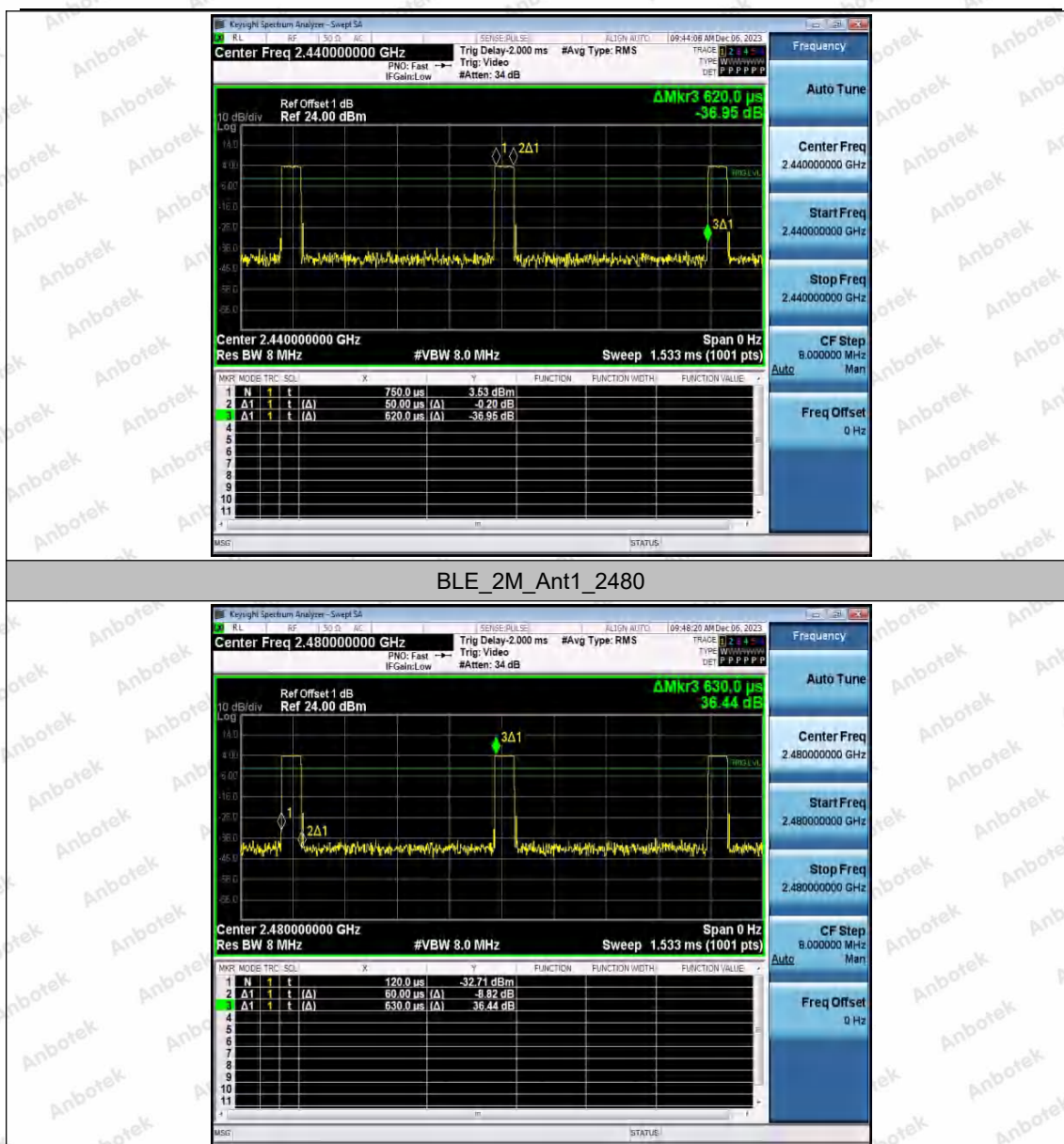


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





---End---

