

Appendix Test Data

Report No.:	18220WC20183801	Test Sample No.:	1-2-2
Start Test Date:	2022.8.11	Finish Test Date:	2022.8.16
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	27.3C°	Relative Humidity:	47 %
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	0.636	2401.638	2402.274	≥0.5	PASS
		2440	0.636	2439.634	2440.270	≥0.5	PASS
		2480	0.636	2479.632	2480.268	≥0.5	PASS

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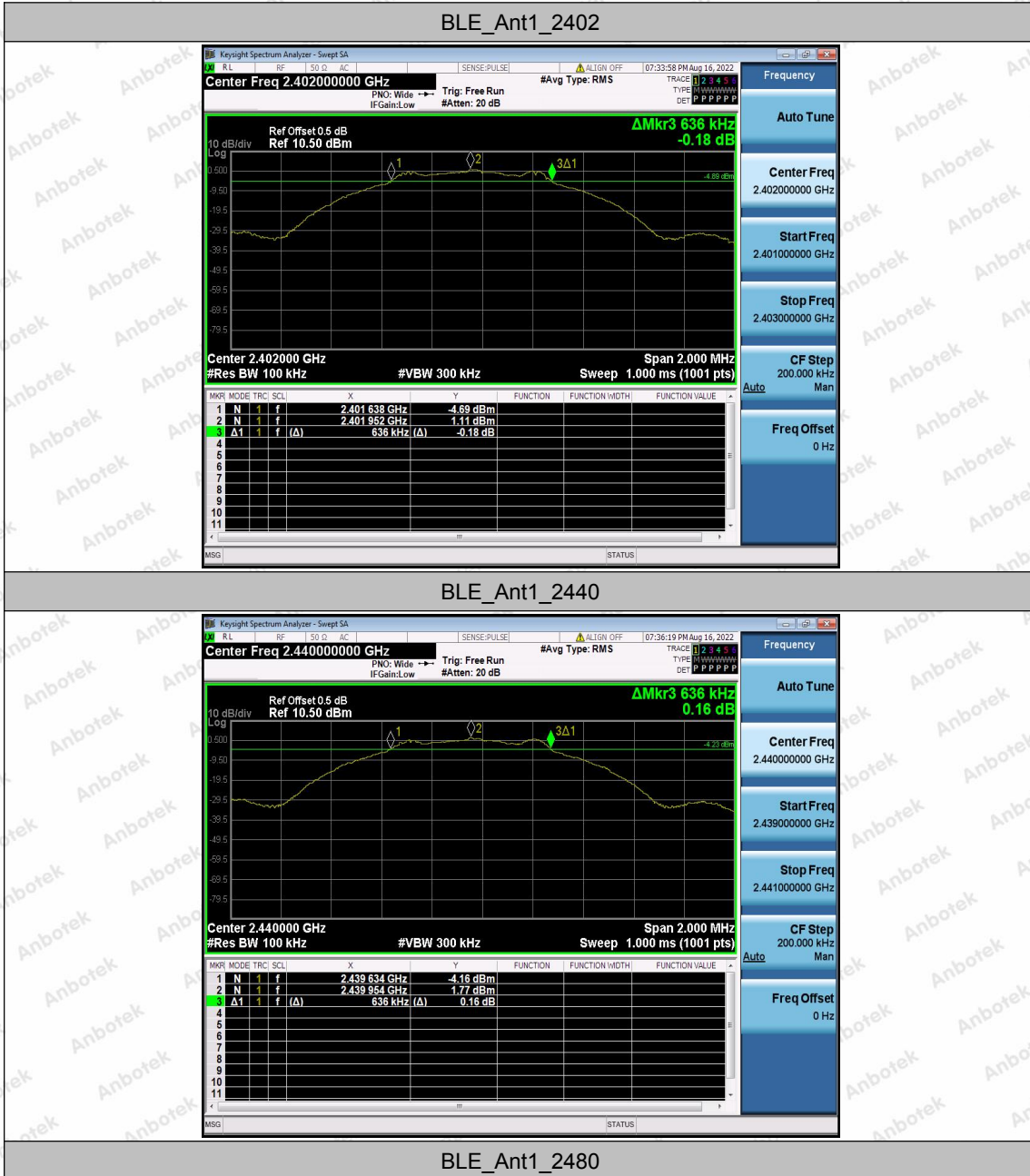
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Test Graphs

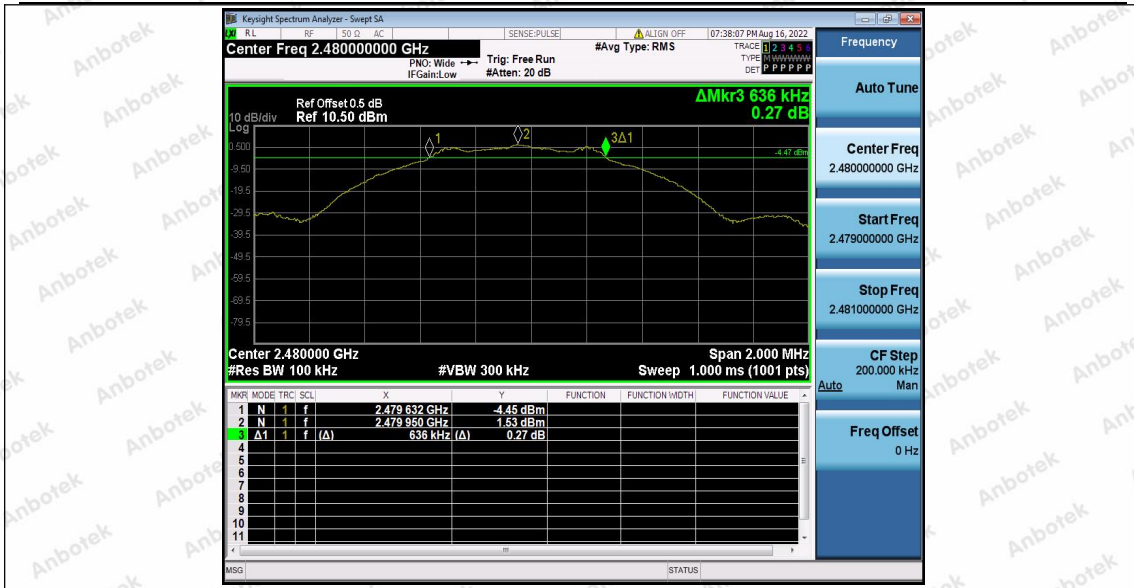


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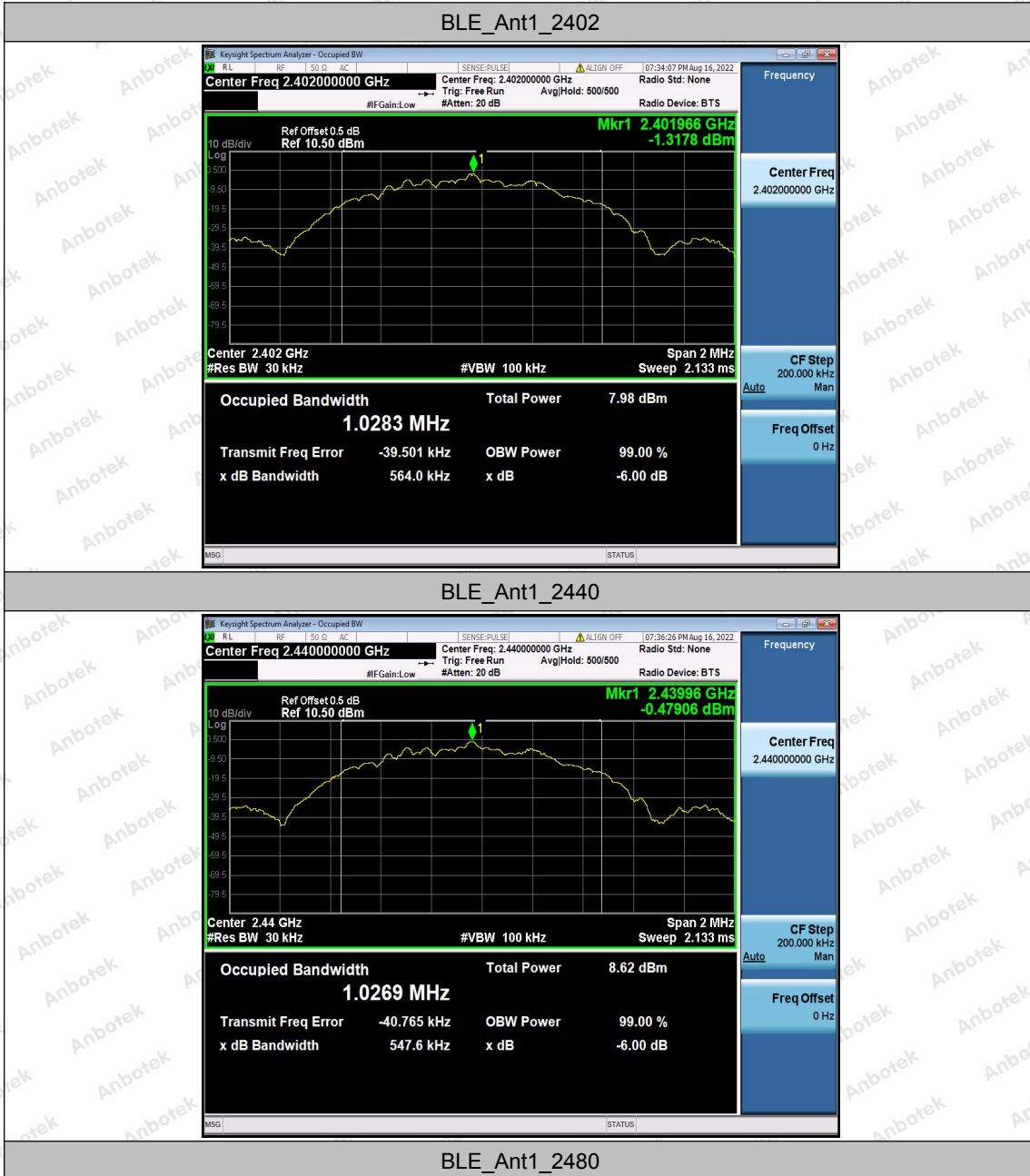
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	1.0283	2401.4464	2402.4747	---	---
		2440	1.0269	2439.4458	2440.4727	---	---
		2480	1.0312	2479.4420	2480.4732	---	---



Test Graphs



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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	Ant1	2402	0.27	≤30	PASS
		2440	0.16	≤30	PASS
		2480	0.29	≤30	PASS

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Test Graphs

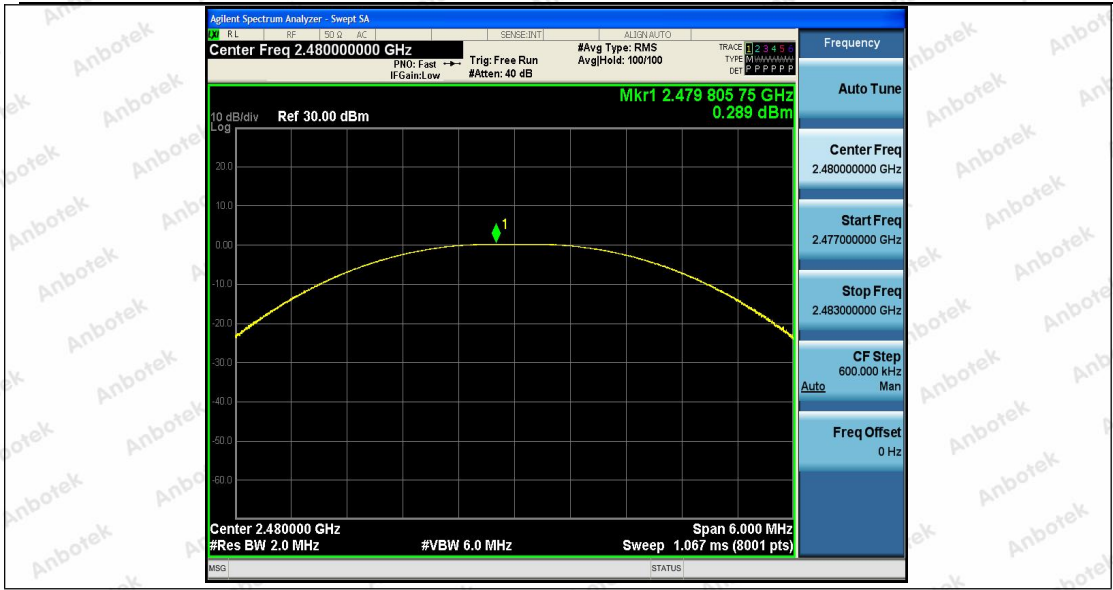


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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant1	2402	-13.71	≤10	PASS
		2440	-13.1	≤10	PASS
		2480	-13.31	≤10	PASS



Test Graphs



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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	Low	2402	1.27	-54.54	≤-18.73	PASS
		High	2480	1.71	-61.95	≤-18.29	PASS

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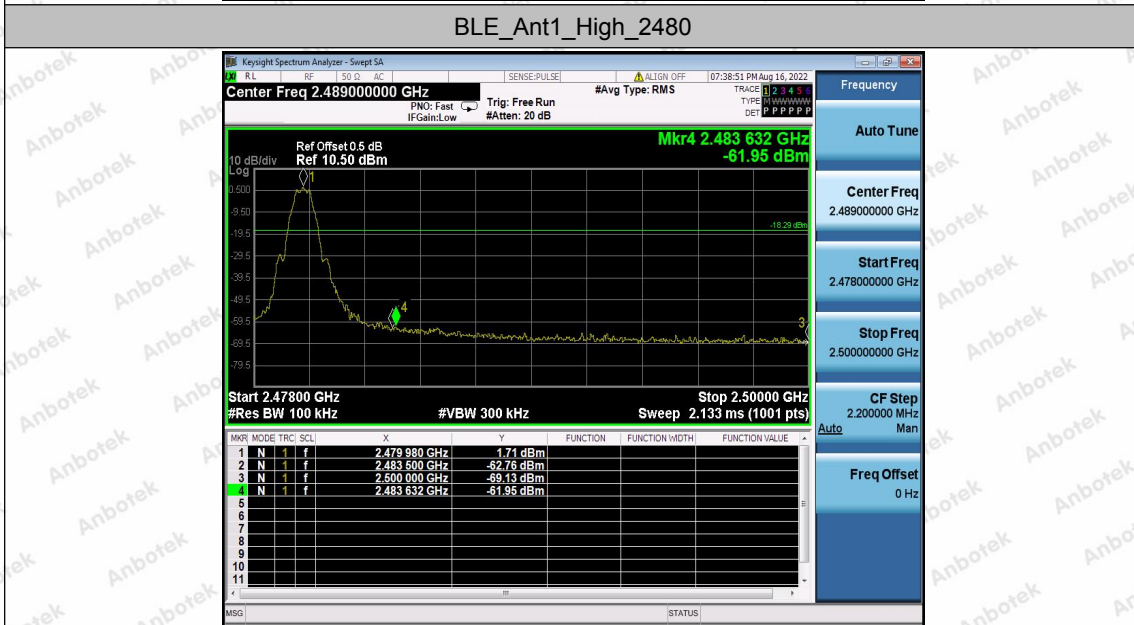
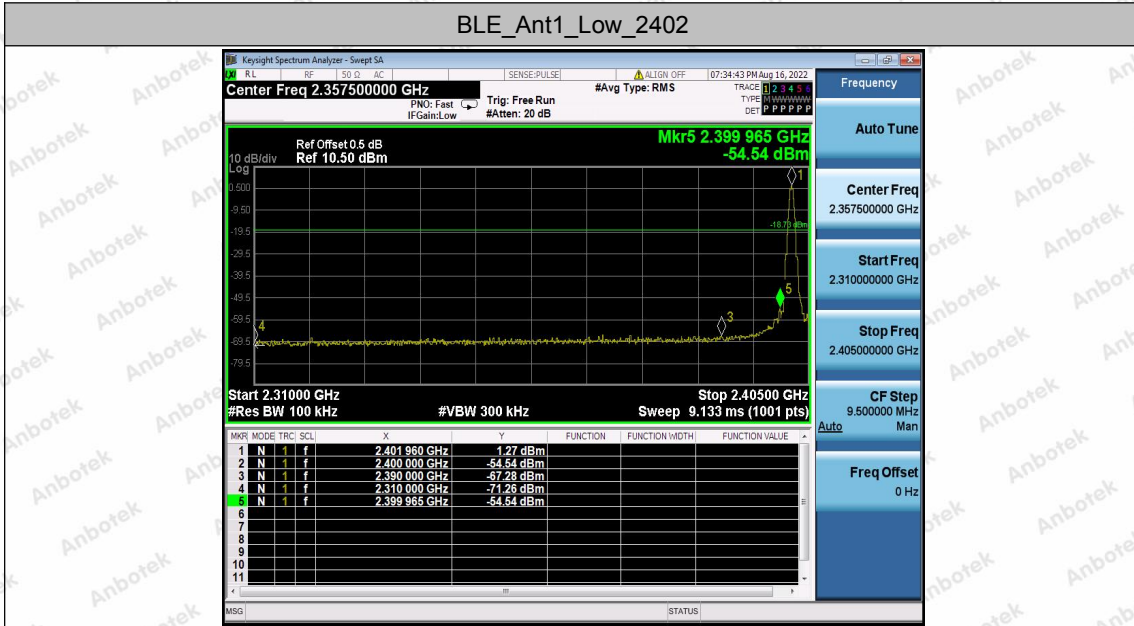
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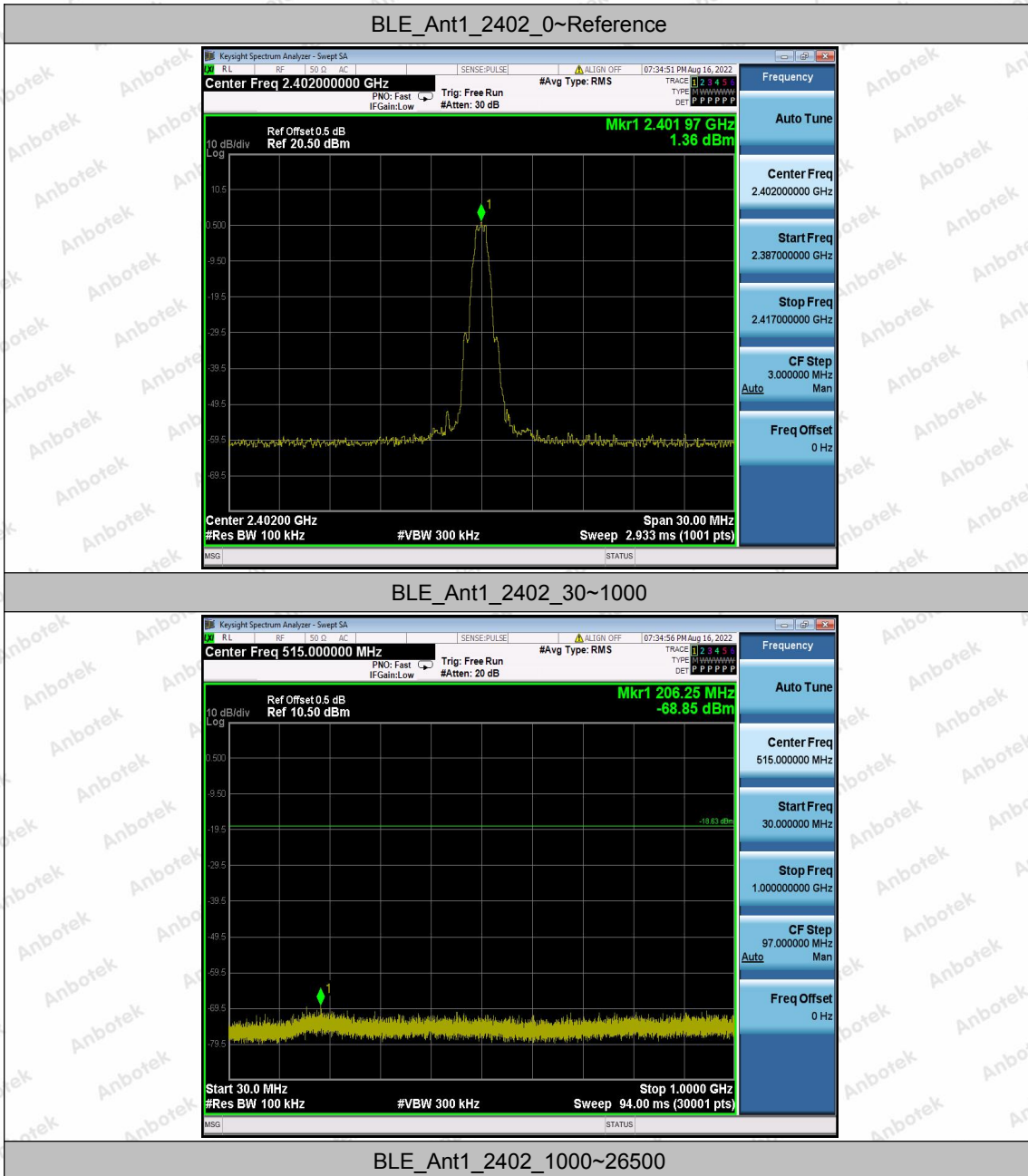
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	Reference	1.37	1.37	---	PASS
			30~1000	1.37	-68.85	≤-18.63	PASS
			1000~26500	1.37	-53.94	≤-18.63	PASS
		2440	Reference	1.11	1.11	---	PASS
			30~1000	1.11	-69.01	≤-18.89	PASS
			1000~26500	1.11	-53.95	≤-18.89	PASS
		2480	Reference	1.21	1.21	---	PASS
			30~1000	1.21	-69.46	≤-18.79	PASS
			1000~26500	1.21	-54.18	≤-18.79	PASS



Test Graphs

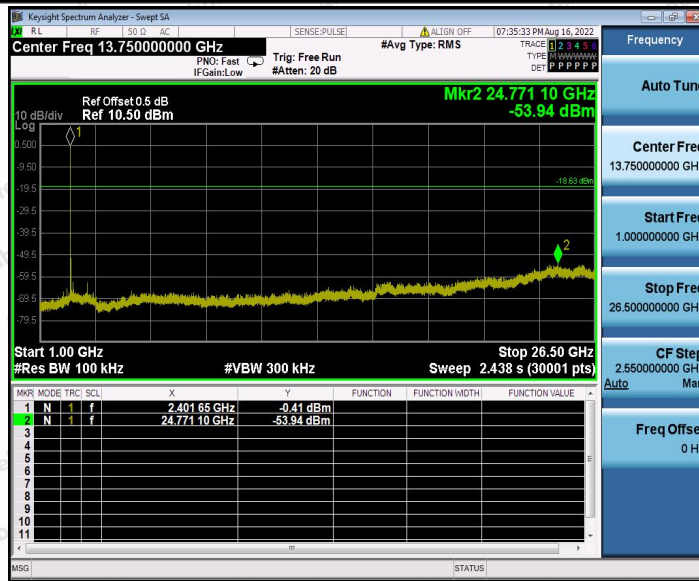


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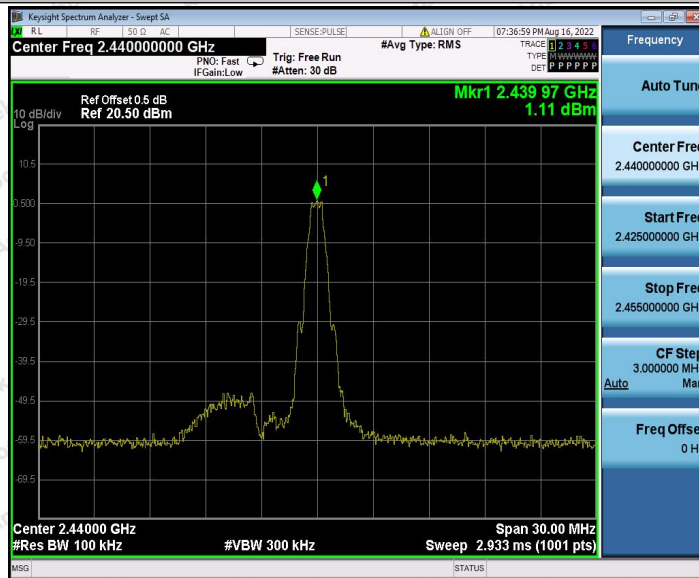
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BLE_Ant1_2440_0~Reference



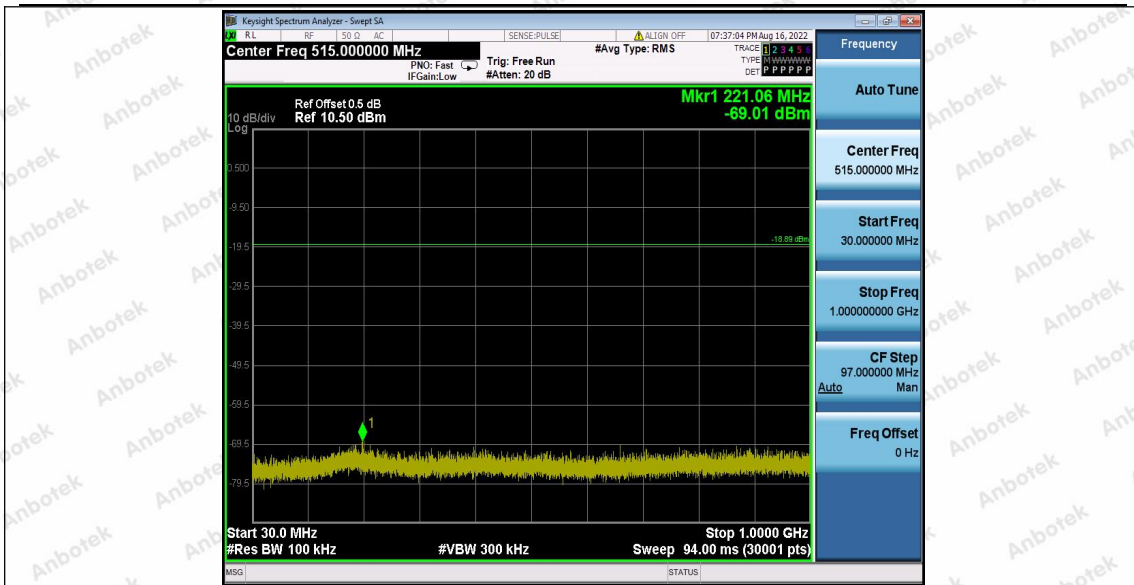
BLE_Ant1_2440_30~1000

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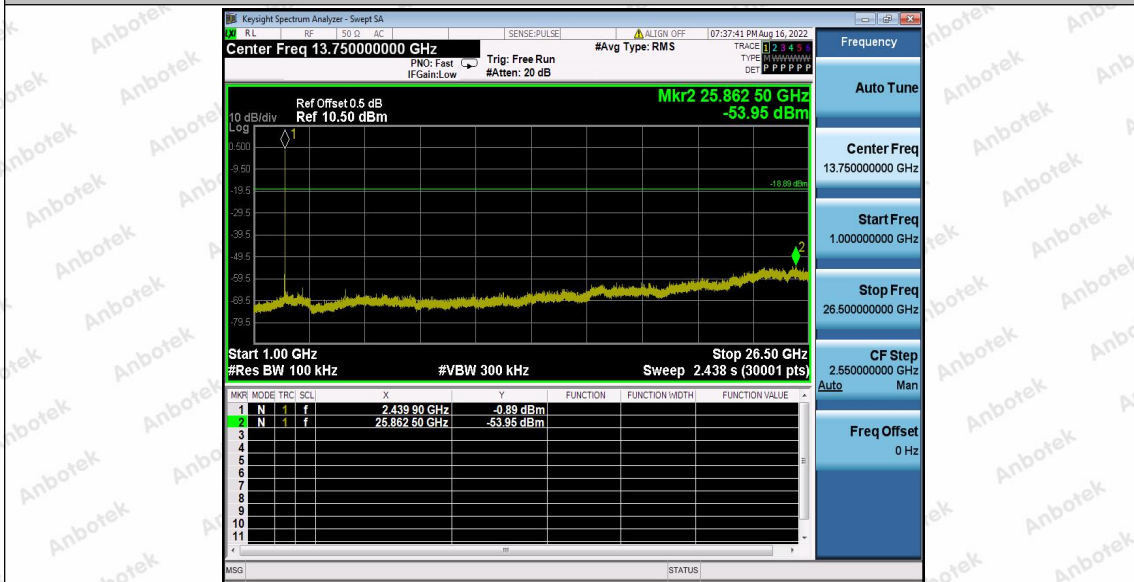
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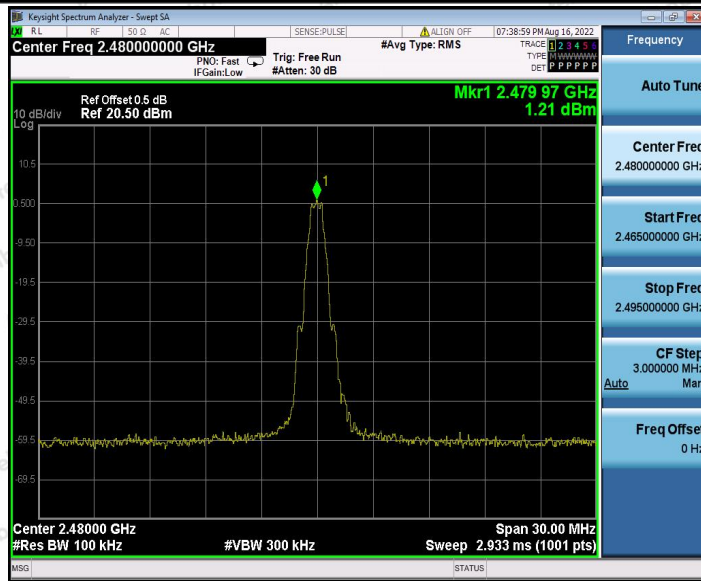


BLE_Ant1_2440_1000~26500

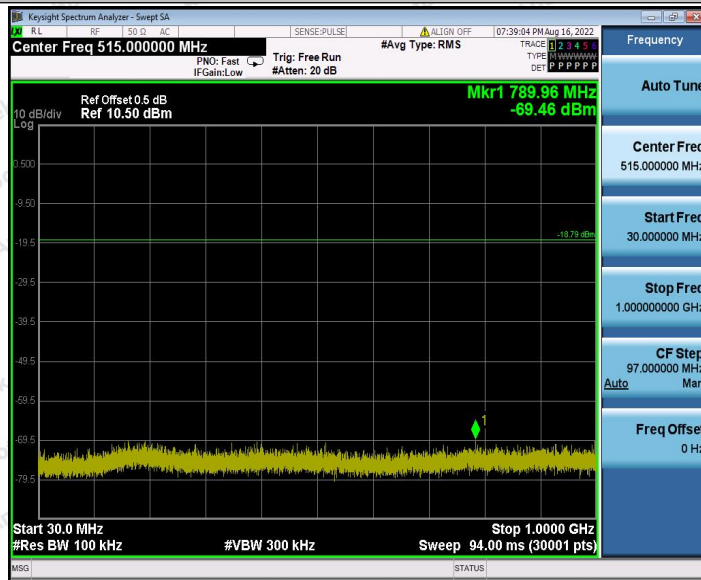


BLE_Ant1_2480_0~Reference





BLE_Ant1_2480_30~1000



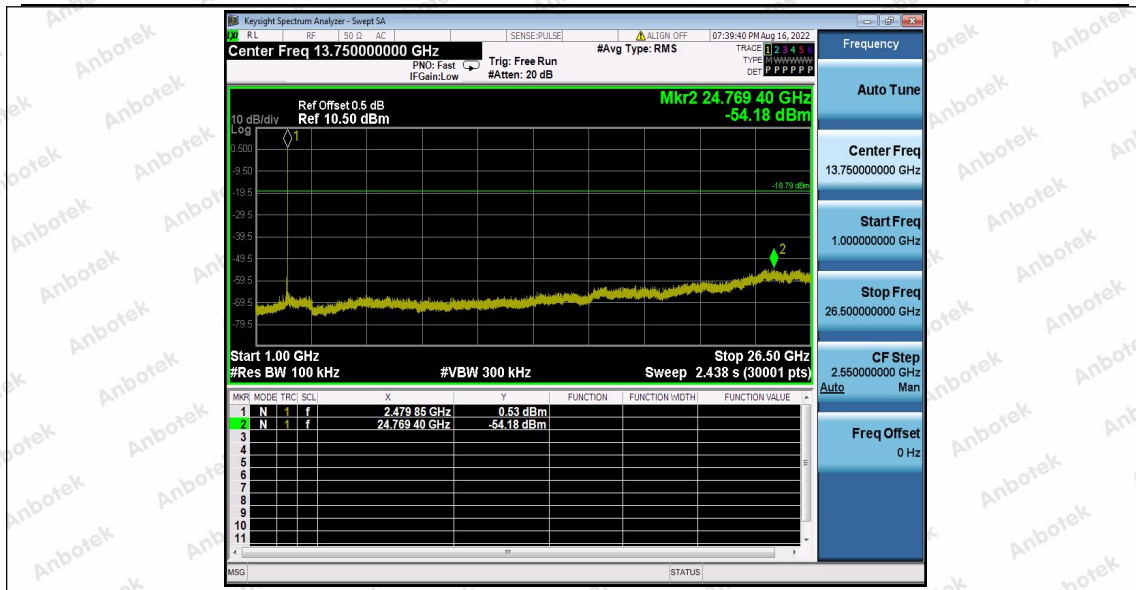
BLE_Ant1_2480_1000~26500

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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	Ant1	2440	2.10	2.50	84.00	0.76

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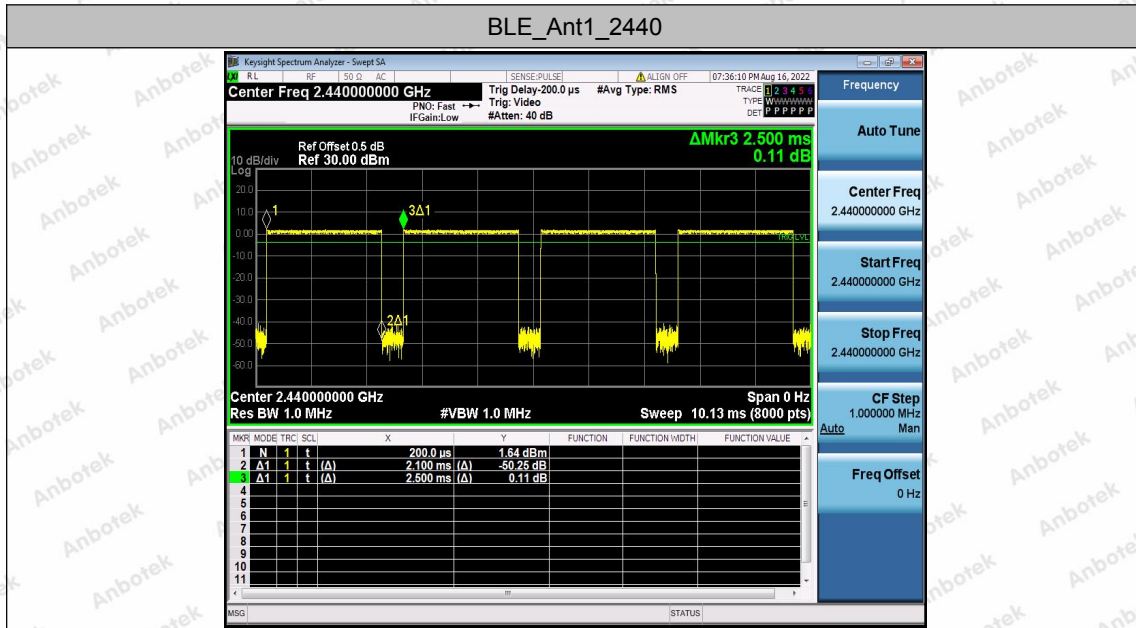
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Test Graphs



---End---

