

## Appendix Test Data

Report No.:	18220WC20254702	Test Sample No.:	1-2-2
Start Test Date:	2022.11.1	Finish Test Date:	2022.11.3
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	27.3°C	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_1M	Ant1	2402	0.640	2401.676	2402.316	0.5	PASS
		2440	0.628	2439.676	2440.304	0.5	PASS
		2480	0.636	2479.676	2480.312	0.5	PASS
BLE_2M	Ant1	2402	1.124	2401.444	2402.568	0.5	PASS
		2440	1.124	2439.436	2440.560	0.5	PASS
		2480	1.112	2479.448	2480.560	0.5	PASS

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## Test Graphs



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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 B: Occupied Channel Bandwidth

### Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0336	2401.4827	2402.5163
		2440	1.0359	2439.4800	2440.5159
		2480	1.0358	2479.4848	2480.5206
BLE_2M	Ant1	2402	2.0516	2400.9930	2403.0446
		2440	2.0472	2438.9883	2441.0355
		2480	2.0514	2478.9887	2481.0401

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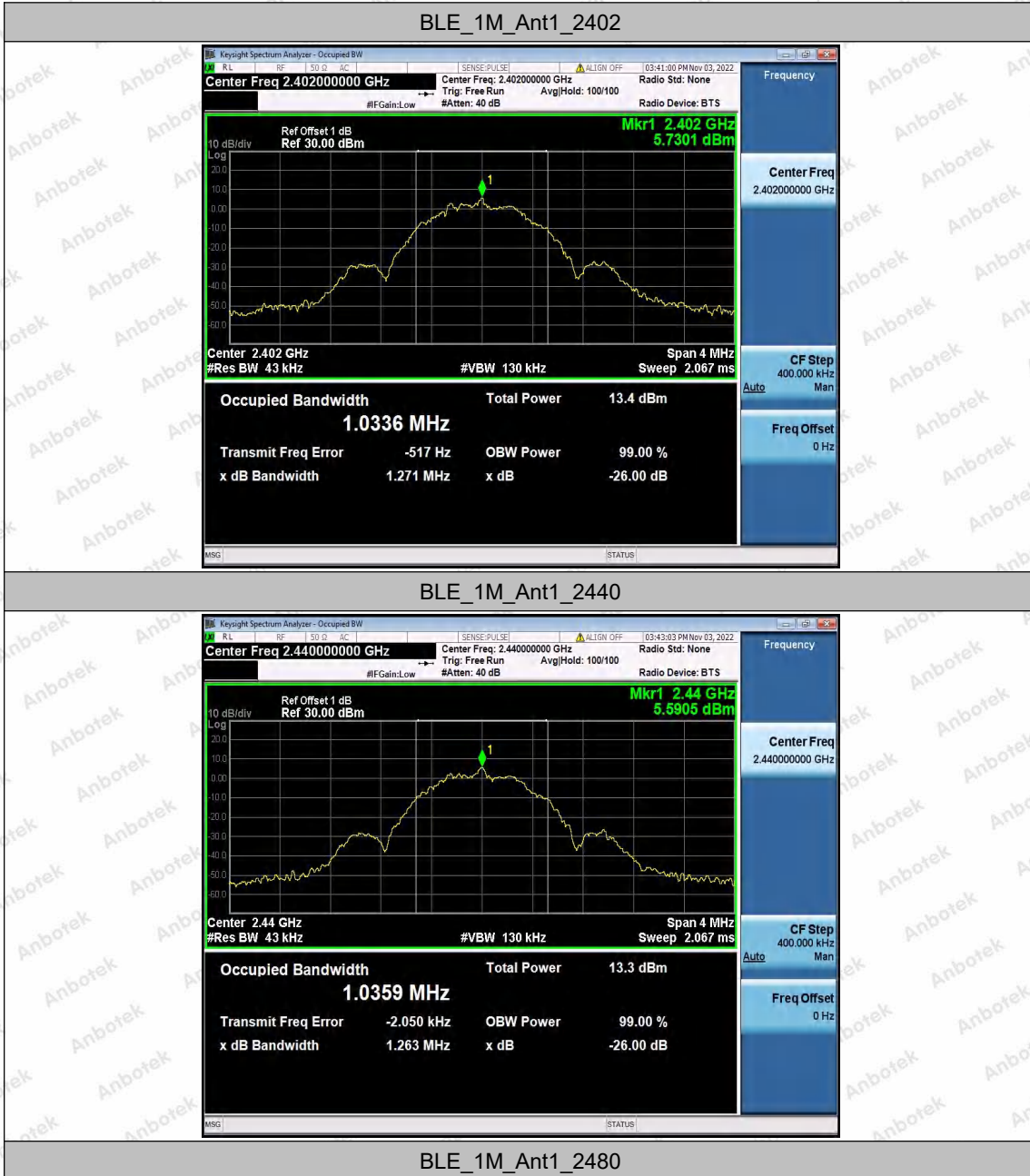
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## Test Graphs



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BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440

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BLE\_2M\_Ant1\_2480



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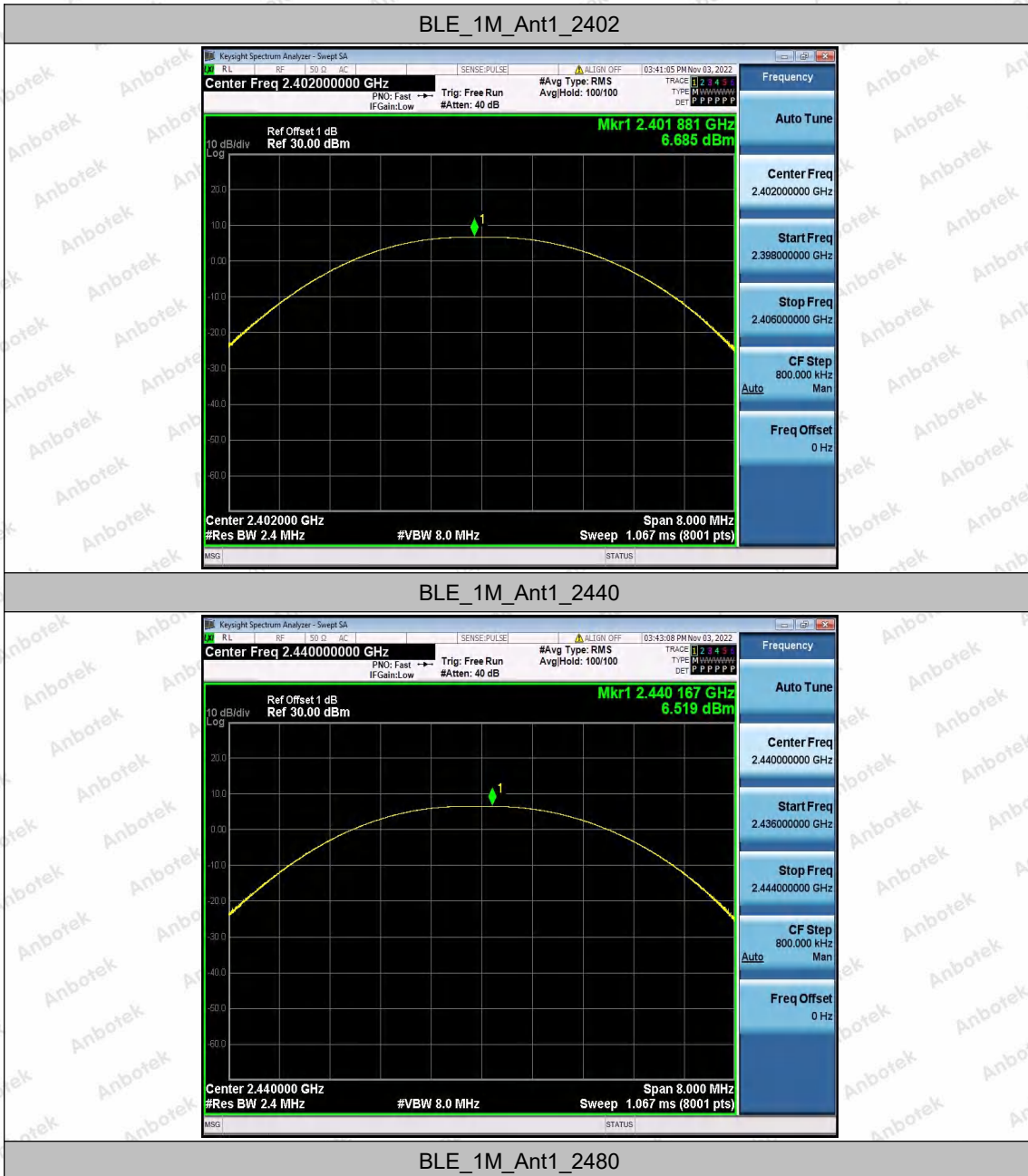
## Appendix C: Maximum conducted output power

### Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	6.69	≤30	PASS
		2440	6.52	≤30	PASS
		2480	6.29	≤30	PASS
BLE_2M	Ant1	2402	6.70	≤30	PASS
		2440	6.51	≤30	PASS
		2480	6.29	≤30	PASS



## Test Graphs Peak



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BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440

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BLE\_2M\_Ant1\_2480



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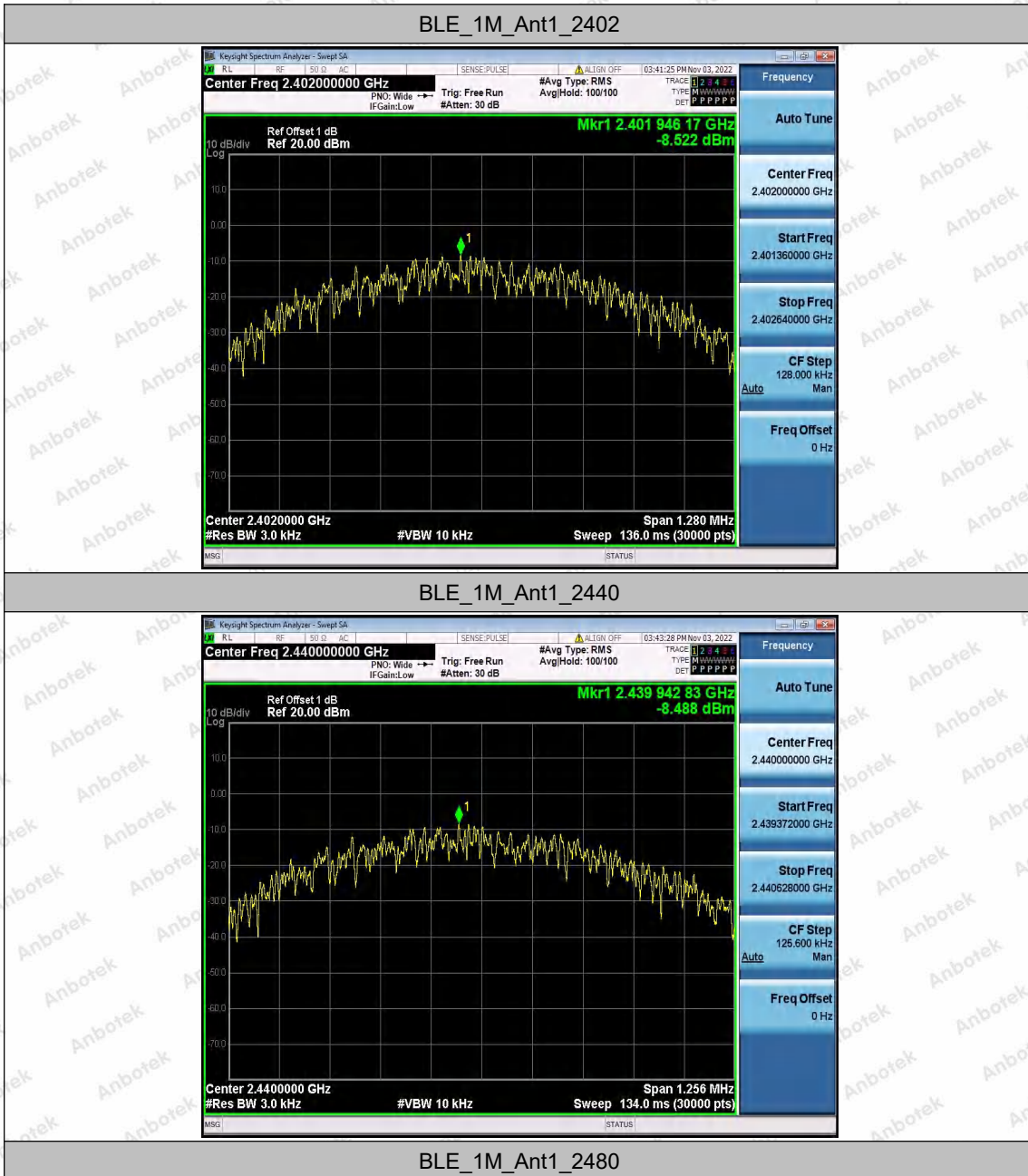
## Appendix D: Maximum power spectral density

### Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-8.52	≤8.00	PASS
		2440	-8.49	≤8.00	PASS
		2480	-8.87	≤8.00	PASS
BLE_2M	Ant1	2402	-11.34	≤8.00	PASS
		2440	-11.39	≤8.00	PASS
		2480	-11.77	≤8.00	PASS



## Test Graphs



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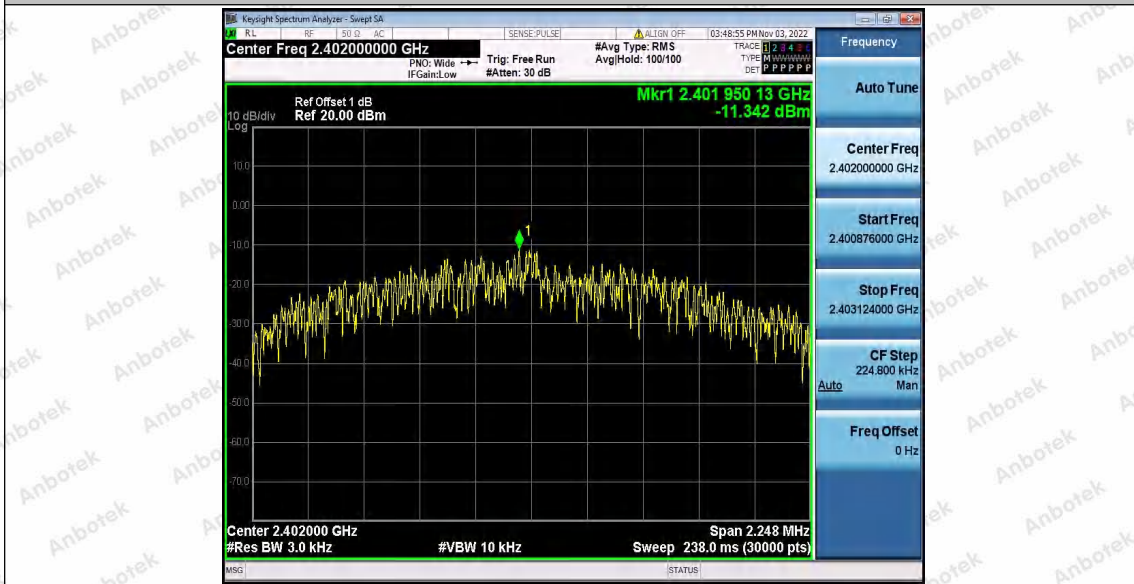
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BLE\_2M\_Ant1\_2402



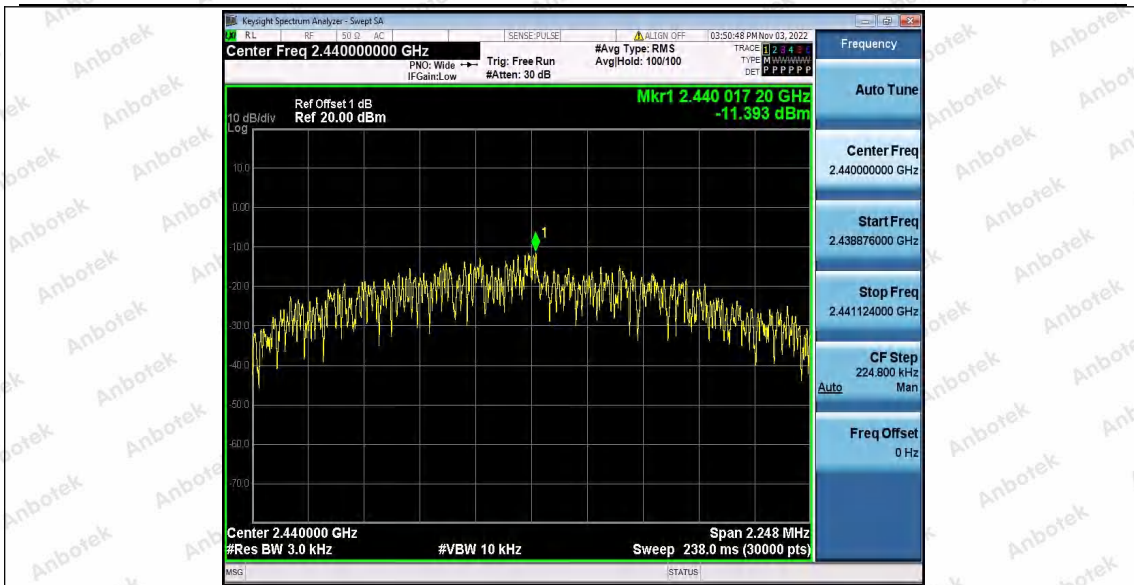
BLE\_2M\_Ant1\_2440

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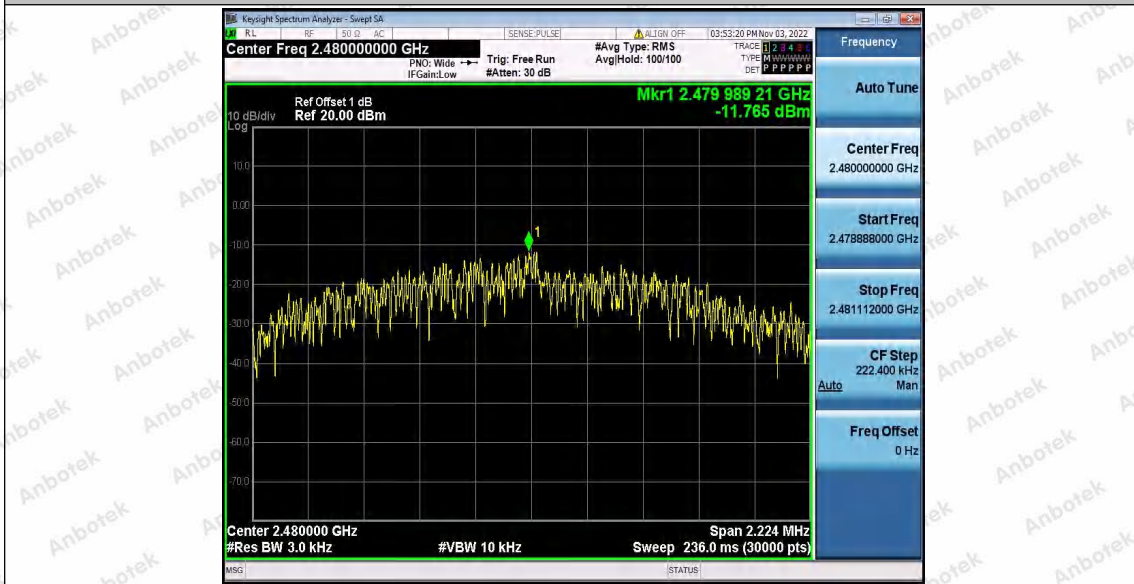
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BLE\_2M\_Ant1\_2480



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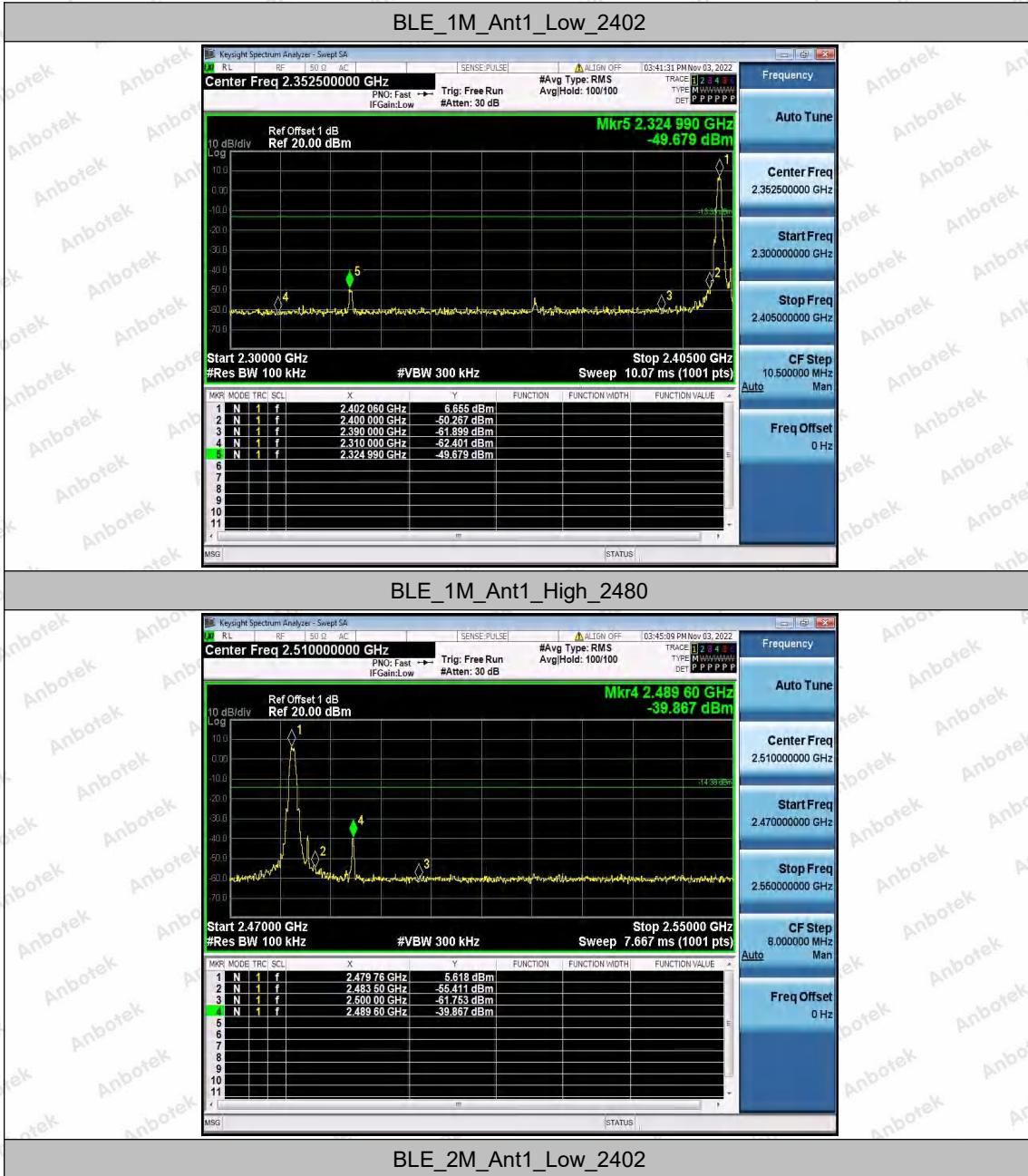
## Appendix E: Band edge measurements

### Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	6.66	-49.68	≤-13.35	PASS
		High	2480	5.62	-39.87	≤-14.38	PASS
BLE_2M	Ant1	Low	2402	6.64	-26.18	≤-13.36	PASS
		High	2480	5.09	-39.34	≤-14.91	PASS



## Test Graphs



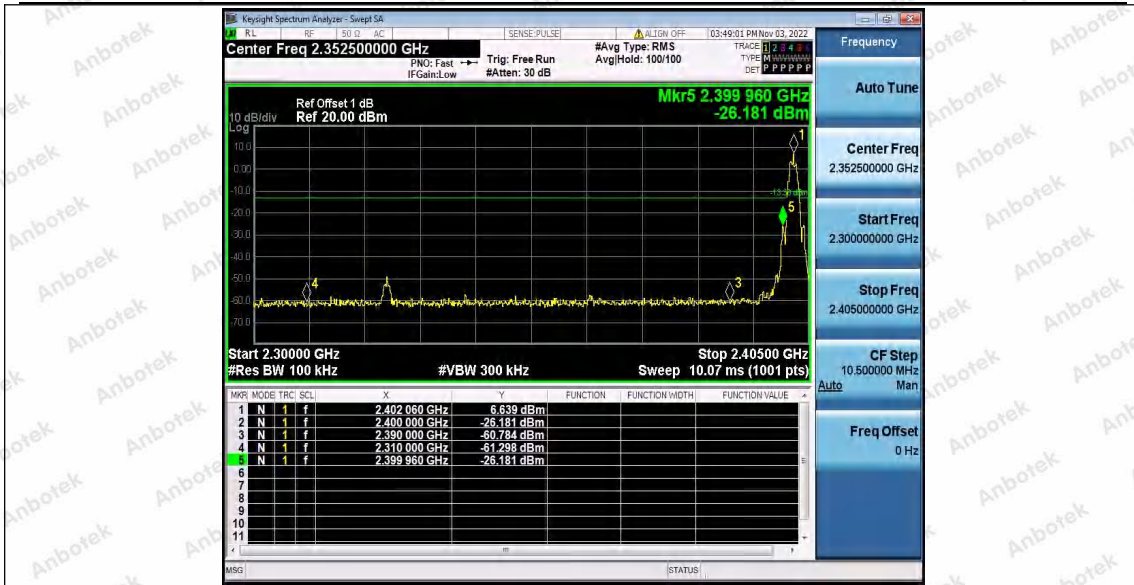
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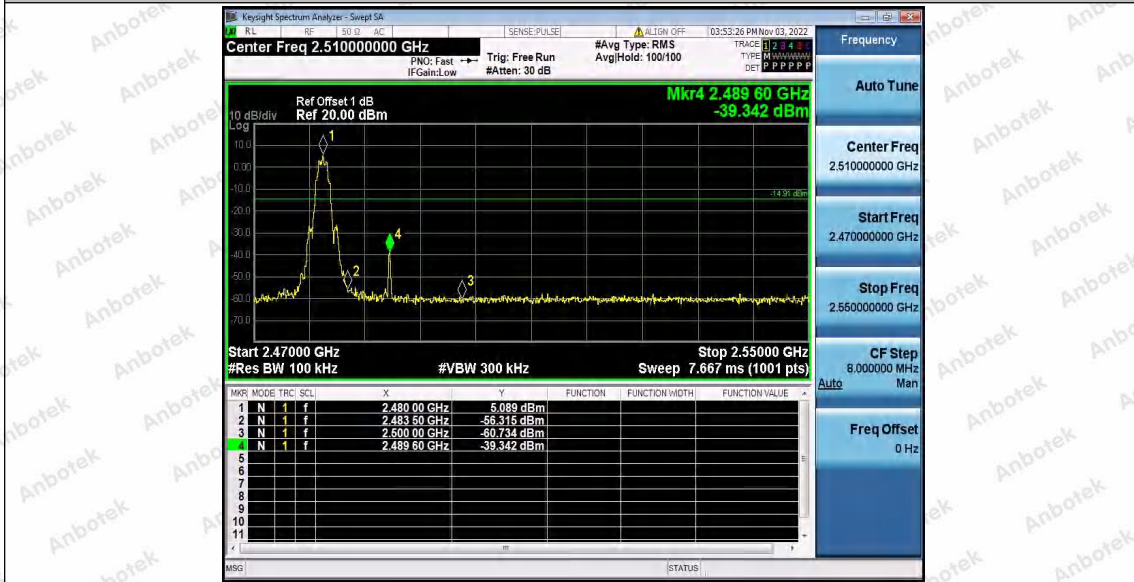
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BLE\_2M\_Ant1\_High\_2480



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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	5.44	5.44	---	PASS
			30~1000	5.44	-68.99	≤-14.56	PASS
			1000~26500	5.44	-51.49	≤-14.56	PASS
		2440	Reference	4.13	4.13	---	PASS
			30~1000	4.13	-69.21	≤-15.87	PASS
			1000~26500	4.13	-51.19	≤-15.87	PASS
		2480	Reference	6.14	6.14	---	PASS
			30~1000	6.14	-69.93	≤-13.86	PASS
			1000~26500	6.14	-52.1	≤-13.86	PASS
BLE_2M	Ant1	2402	Reference	6.43	6.43	---	PASS
			30~1000	6.43	-68.92	≤-13.57	PASS
			1000~26500	6.43	-53.75	≤-13.57	PASS
		2440	Reference	2.85	2.85	---	PASS
			30~1000	2.85	-69.37	≤-17.15	PASS
			1000~26500	2.85	-50.92	≤-17.15	PASS
		2480	Reference	4.86	4.86	---	PASS
			30~1000	4.86	-69.53	≤-15.14	PASS
			1000~26500	4.86	-53.23	≤-15.14	PASS





## Test Graphs

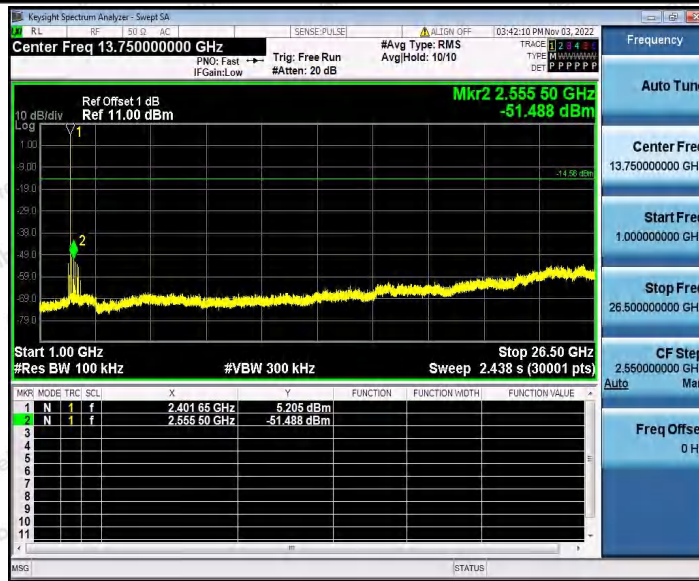


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BLE\_1M\_Ant1\_2440\_0~Reference



BLE\_1M\_Ant1\_2440\_30~1000

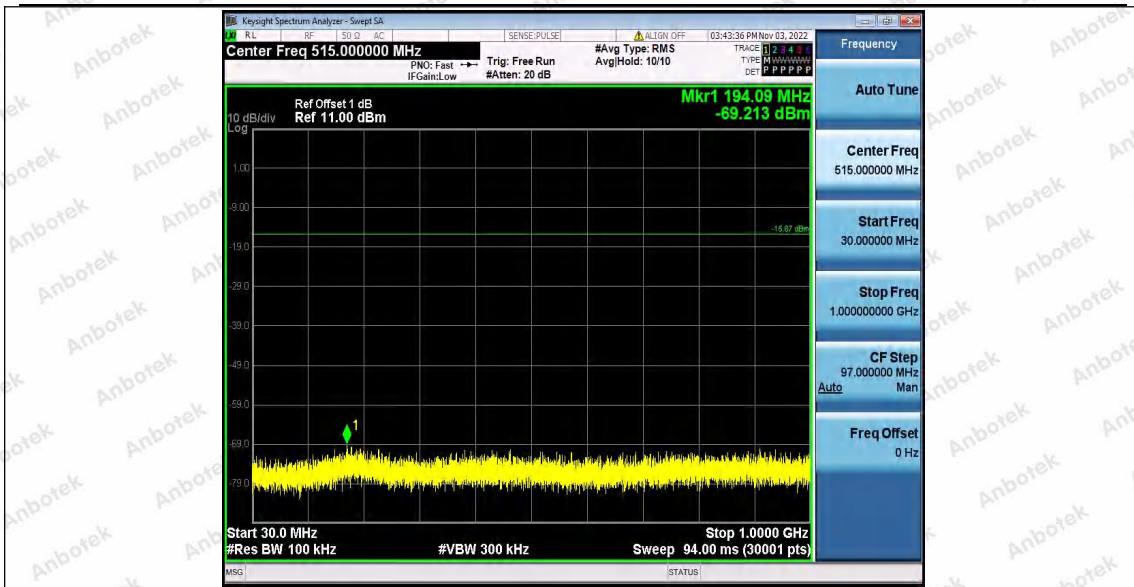
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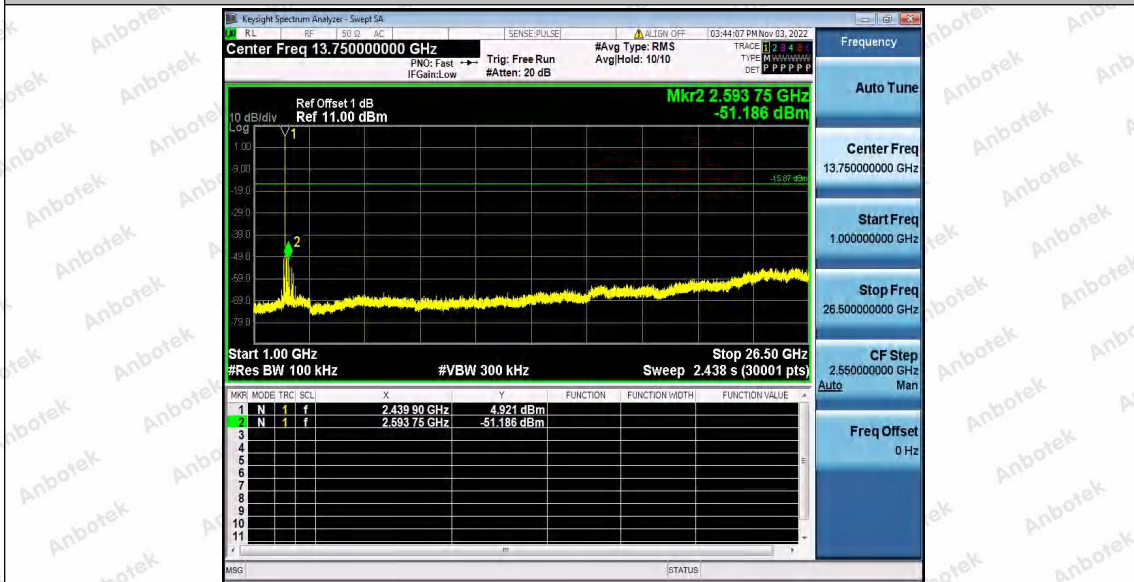
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BLE\_1M\_Ant1\_2440\_1000~26500



BLE\_1M\_Ant1\_2480\_0~Reference

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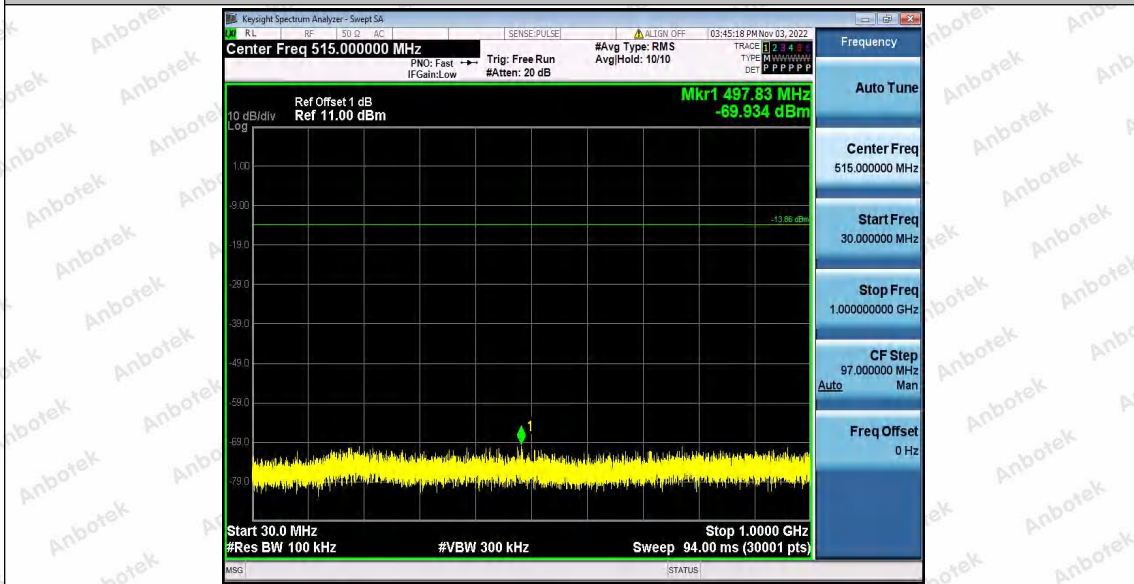
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BLE\_1M\_Ant1\_2480\_30~1000



BLE\_1M\_Ant1\_2480\_1000~26500

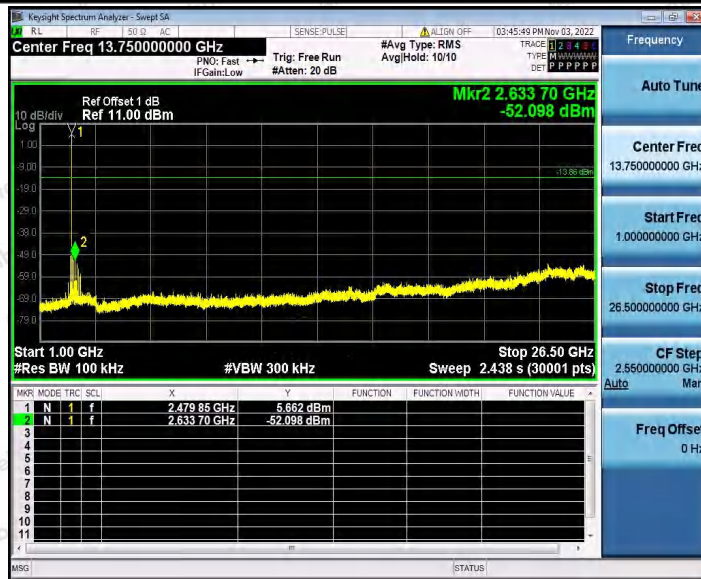
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BLE\_2M\_Ant1\_2402\_0~Reference



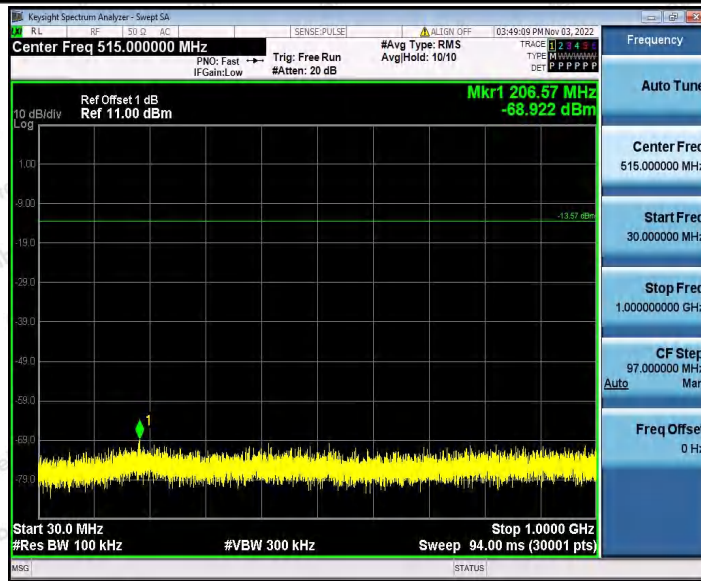
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BLE\_2M\_Ant1\_2402\_1000~26500



BLE\_2M\_Ant1\_2440\_0~Reference

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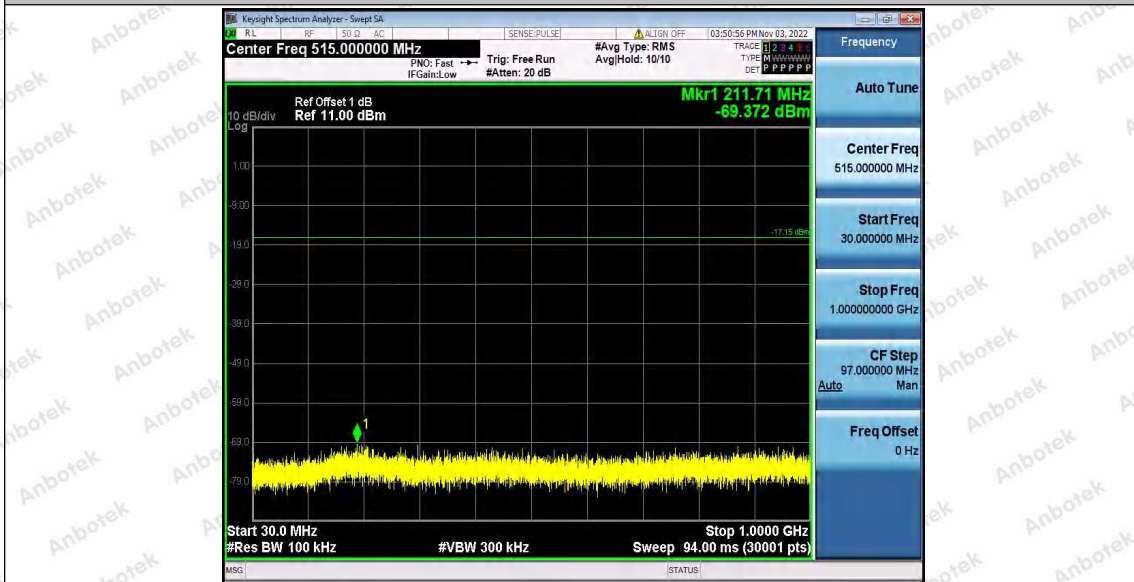
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BLE\_2M\_Ant1\_2440\_30~1000



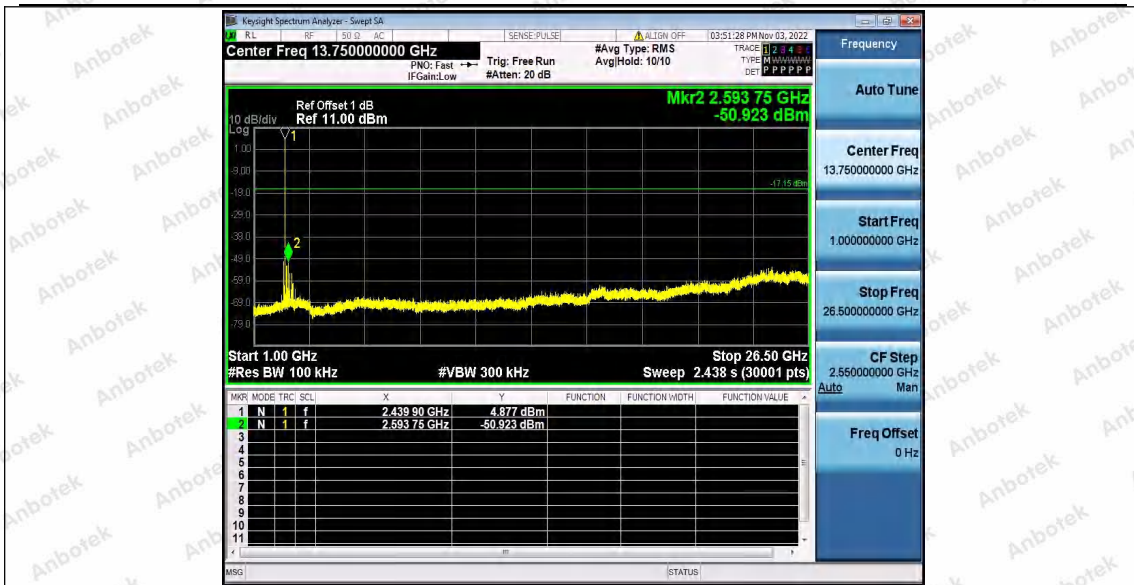
BLE\_2M\_Ant1\_2440\_1000~26500

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BLE\_2M\_Ant1\_2480\_0~Reference



BLE\_2M\_Ant1\_2480\_30~1000

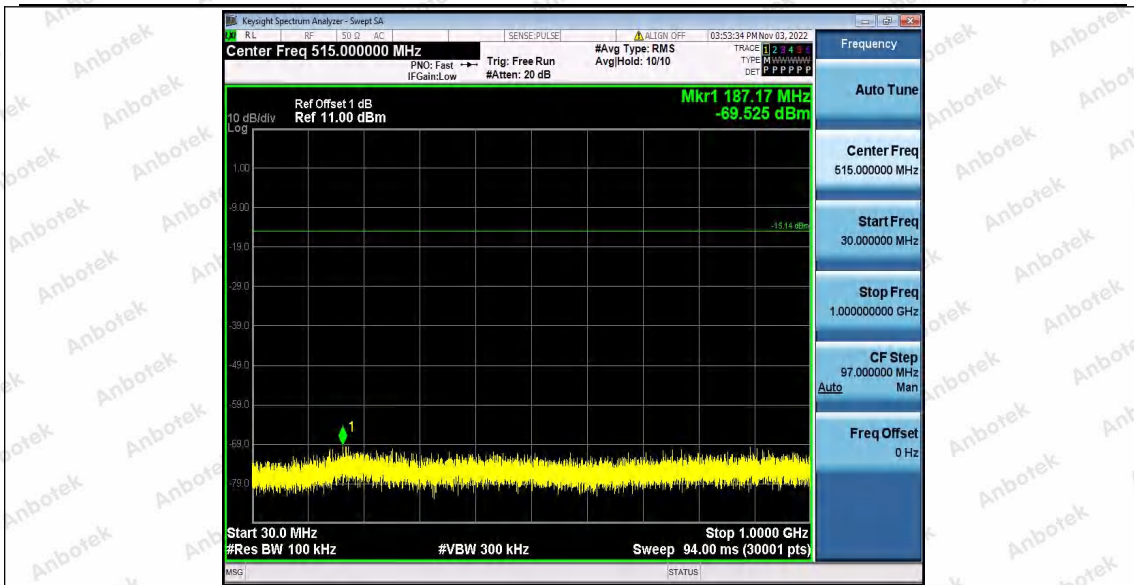
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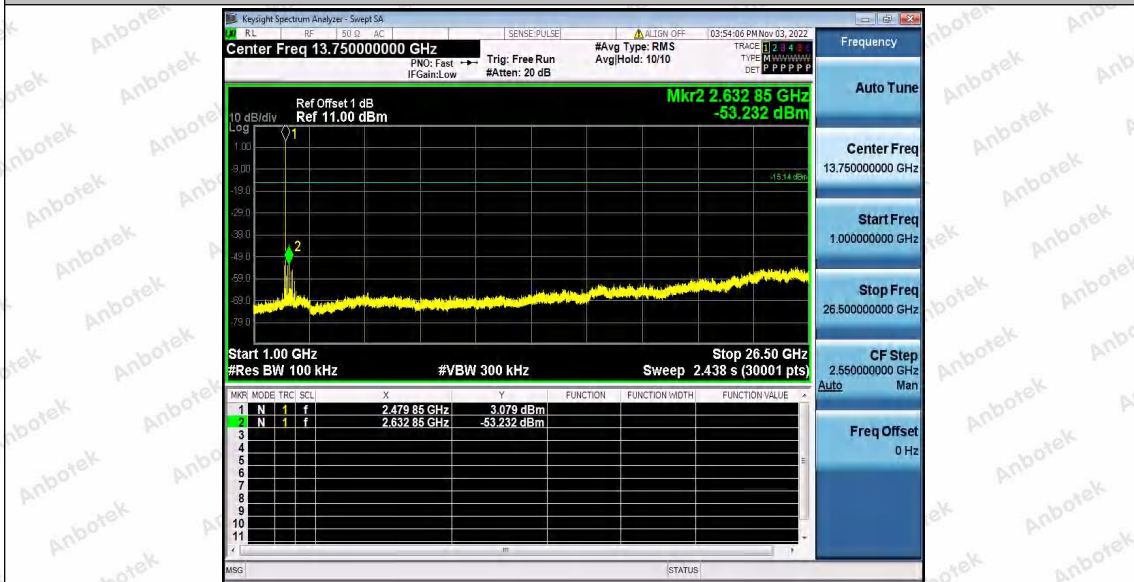
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BLE\_2M\_Ant1\_2480\_1000~26500



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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	0.39	0.63	61.90	2.08
		2440	0.39	0.63	61.90	2.08
		2480	0.39	0.63	61.90	2.08
BLE_2M	Ant1	2402	0.21	0.63	33.33	4.77
		2440	0.21	0.63	33.33	4.77
		2480	0.21	0.63	33.33	4.77

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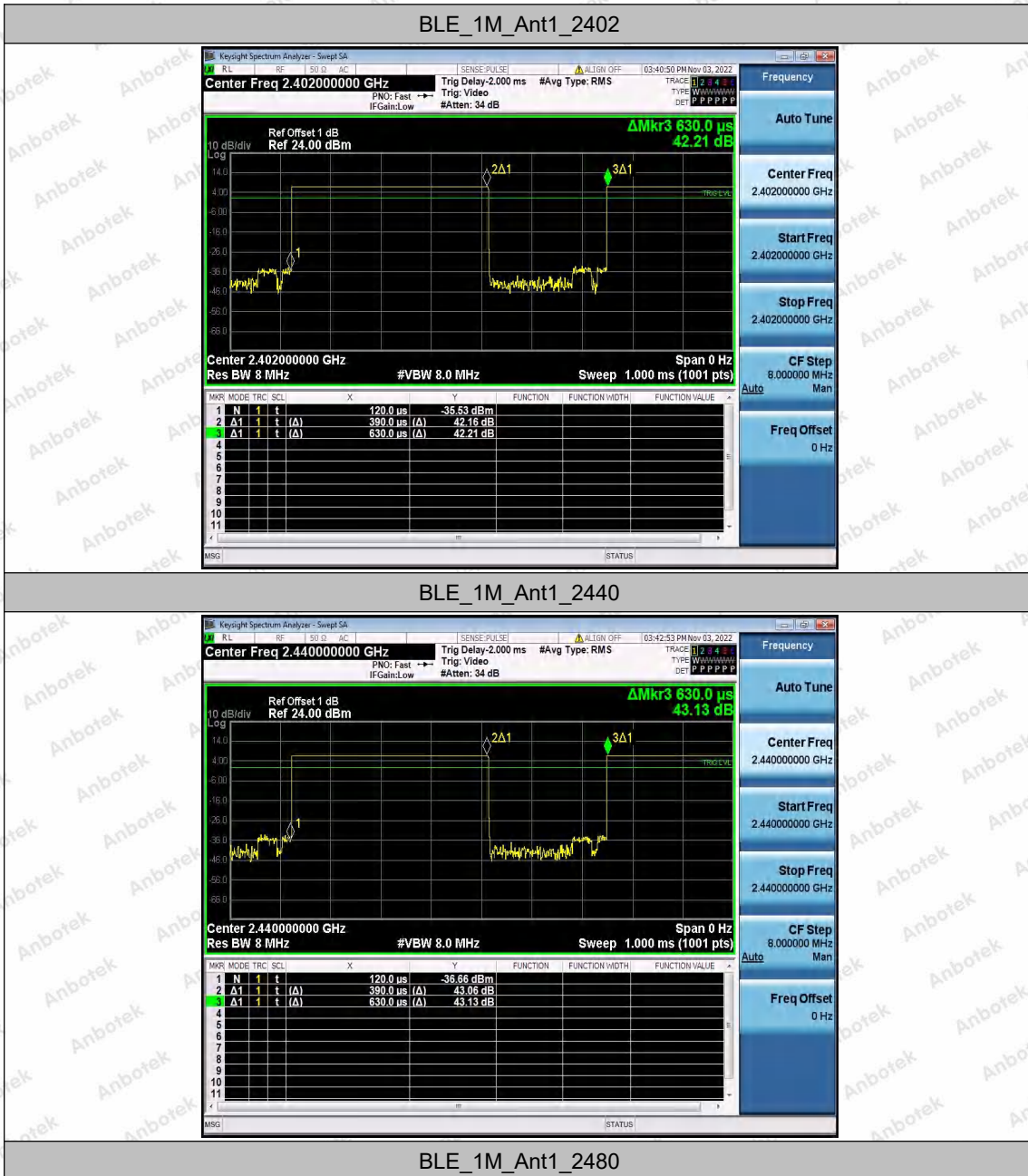
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## Test Graphs

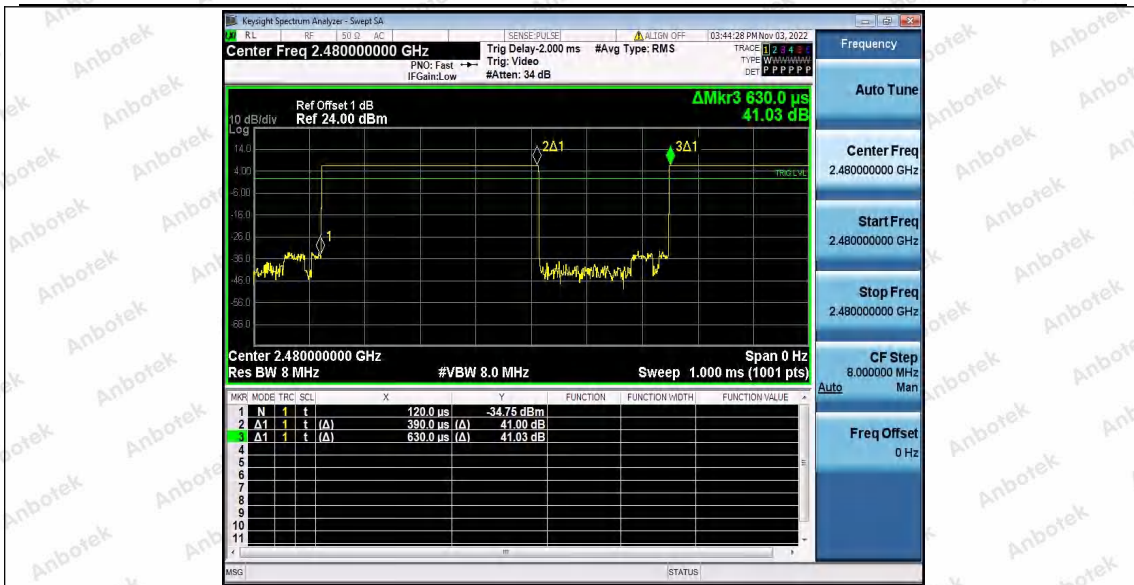


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BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440

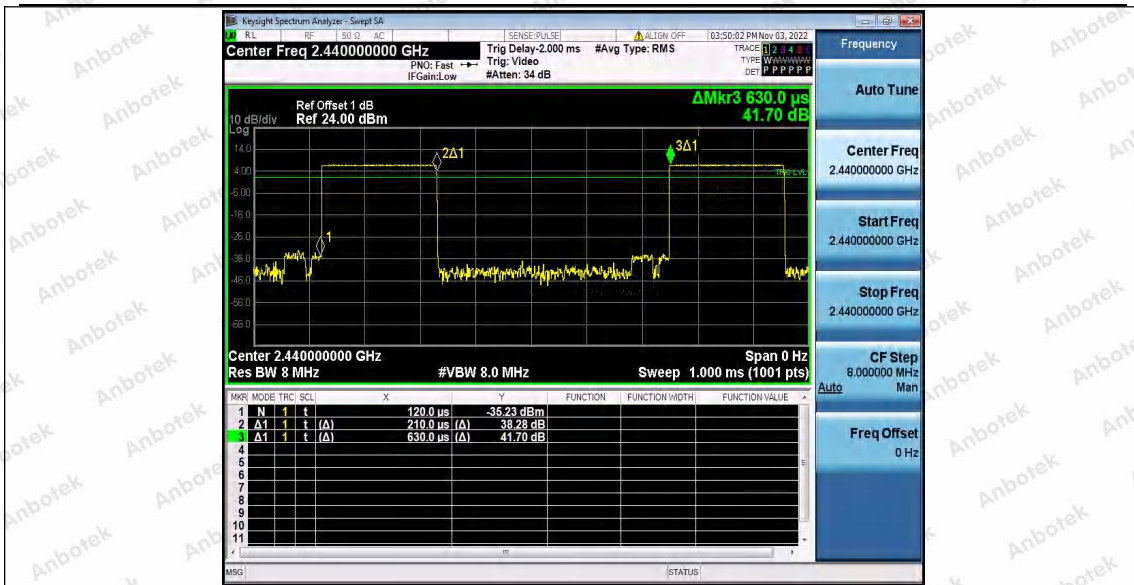
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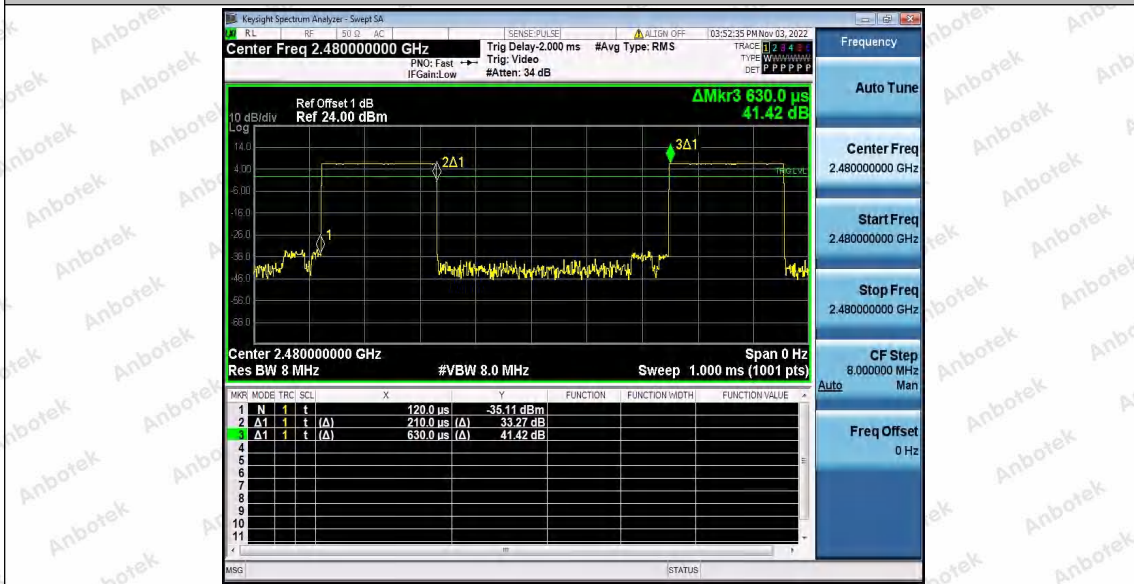
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BLE\_2M\_Ant1\_2480



---End---

