

## Appendix Test Data

Report No.:	18220WC20262602	Test Sample No.:	1-2-2
Start Test Date:	2022.11.15	Finish Test Date:	2022.11.24
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

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.636	2401.668	2402.304	0.5	PASS
		2440	0.608	2439.688	2440.296	0.5	PASS
		2480	0.636	2479.672	2480.308	0.5	PASS
BLE_2M	Ant1	2402	1.076	2401.488	2402.564	0.5	PASS
		2440	1.116	2439.456	2440.572	0.5	PASS
		2480	1.120	2479.448	2480.568	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

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0343	2401.4810	2402.5153
		2440	1.0300	2439.4822	2440.5122
		2480	1.0290	2479.4868	2480.5158
BLE_2M	Ant1	2402	2.0597	2400.9854	2403.0451
		2440	2.0610	2438.9796	2441.0406
		2480	2.0481	2478.9897	2481.0378

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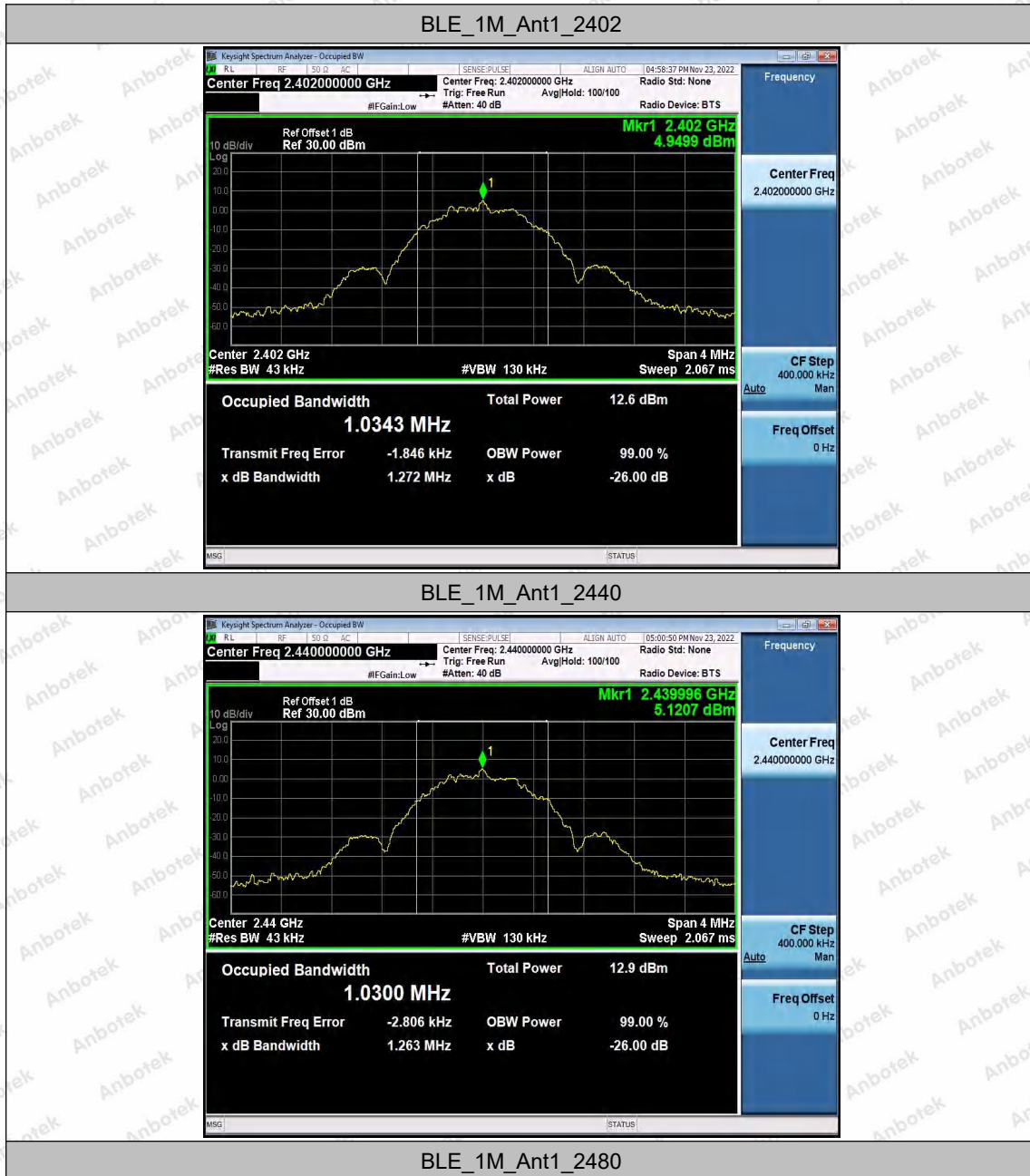
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## Test Graphs



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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

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	5.84	≤30	PASS
		2440	6.02	≤30	PASS
		2480	6.09	≤30	PASS
BLE_2M	Ant1	2402	5.85	≤30	PASS
		2440	6.02	≤30	PASS
		2480	6.11	≤30	PASS

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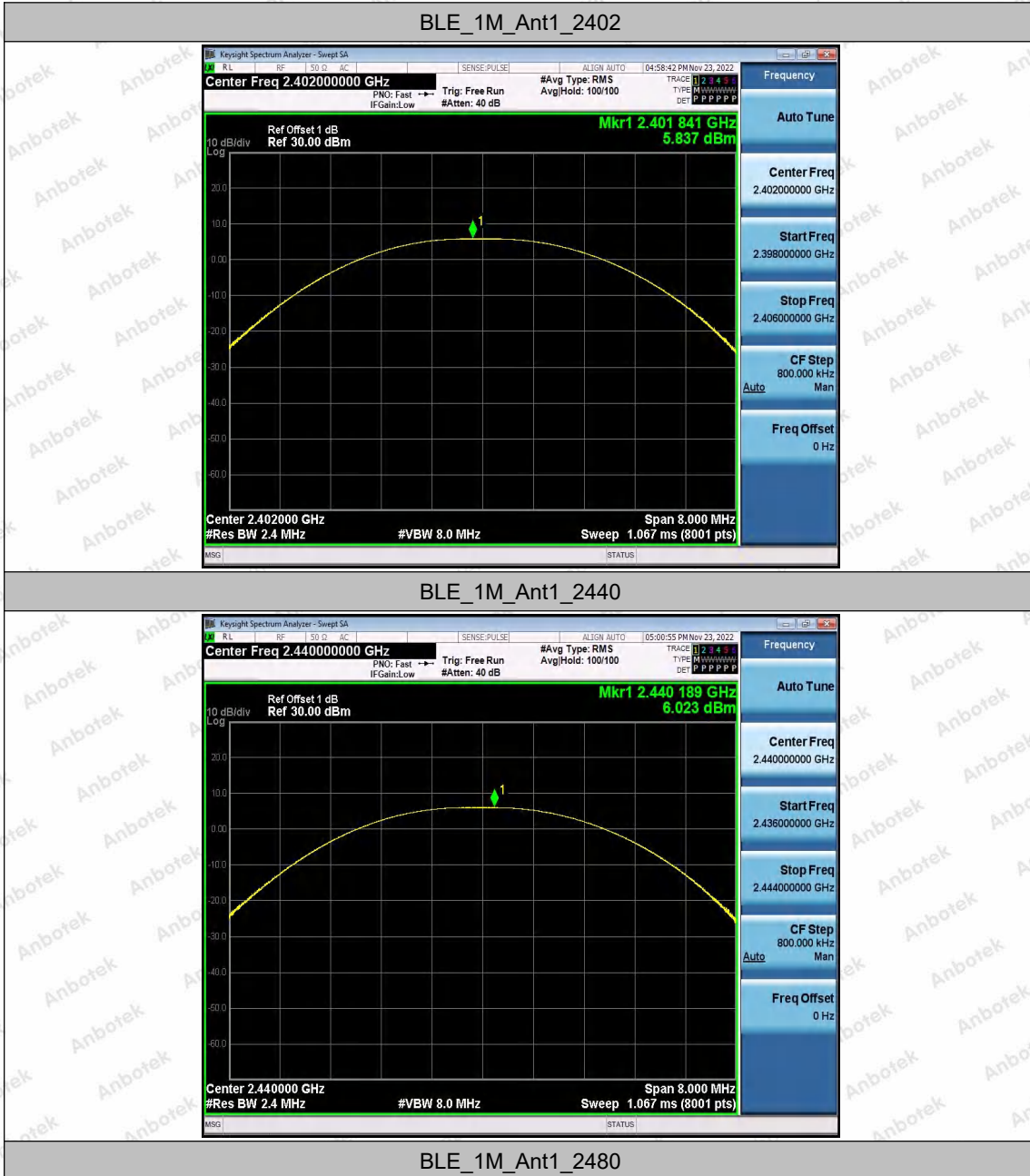
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## Test Graphs Peak



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BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440

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BLE\_2M\_Ant1\_2480



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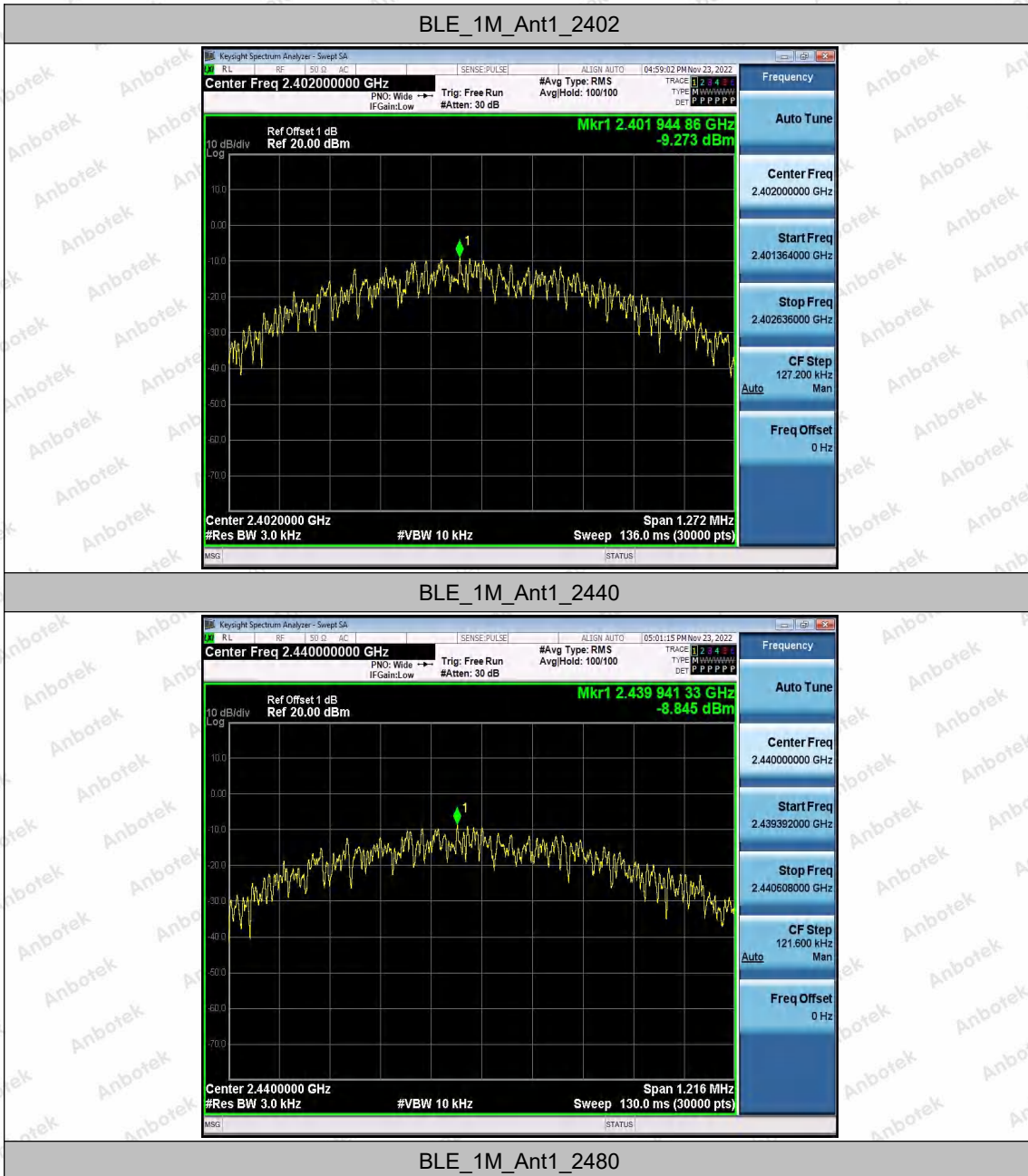
## Appendix D: Maximum power spectral density

### Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-9.27	≤8.00	PASS
		2440	-8.85	≤8.00	PASS
		2480	-8.71	≤8.00	PASS
BLE_2M	Ant1	2402	-12.18	≤8.00	PASS
		2440	-12.01	≤8.00	PASS
		2480	-11.69	≤8.00	PASS



## Test Graphs



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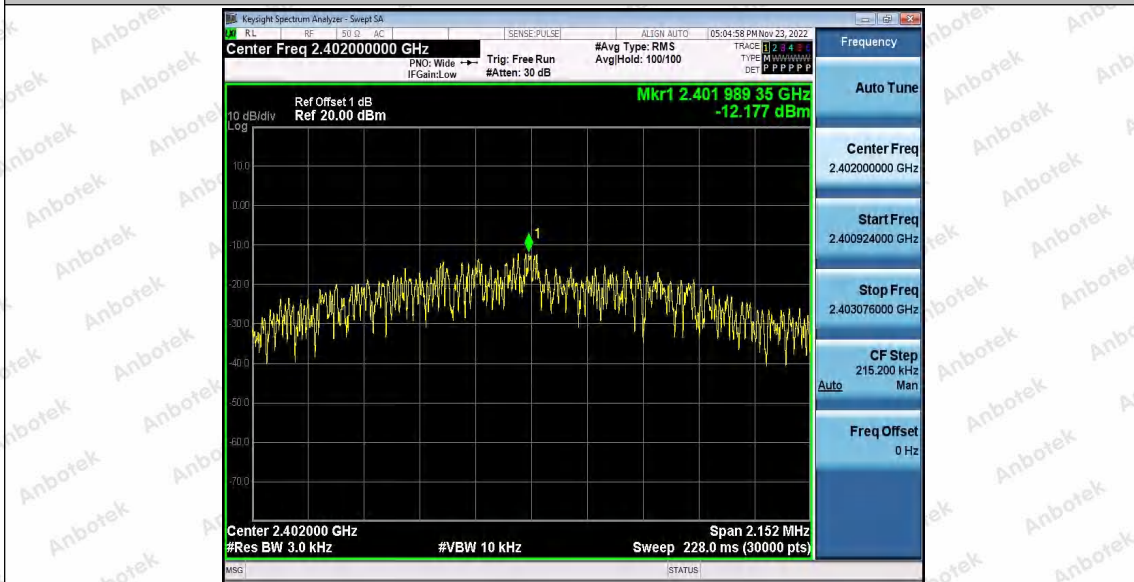
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BLE\_2M\_Ant1\_2402



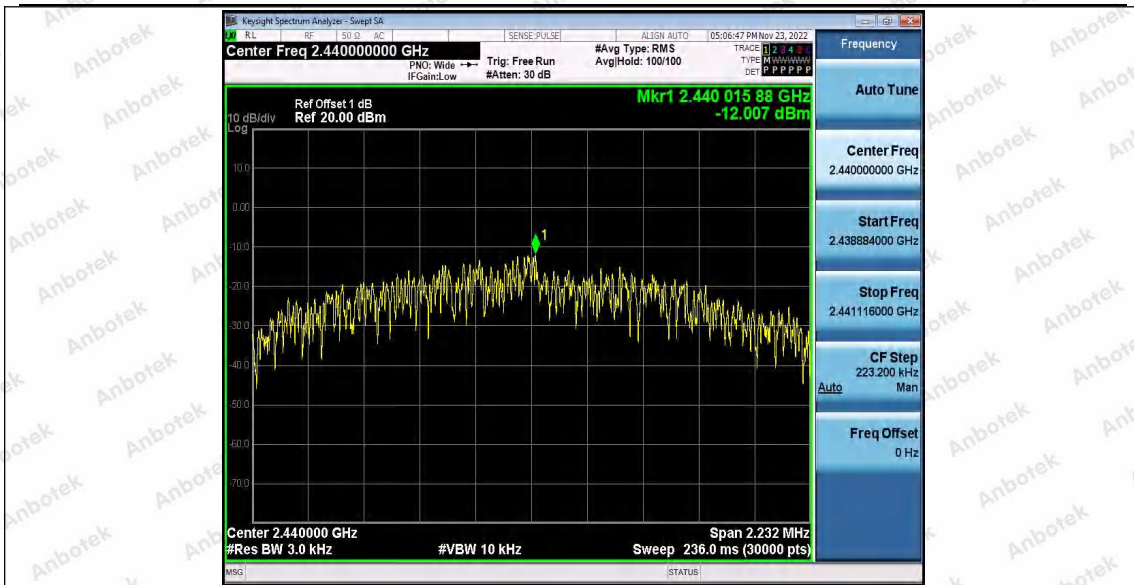
BLE\_2M\_Ant1\_2440

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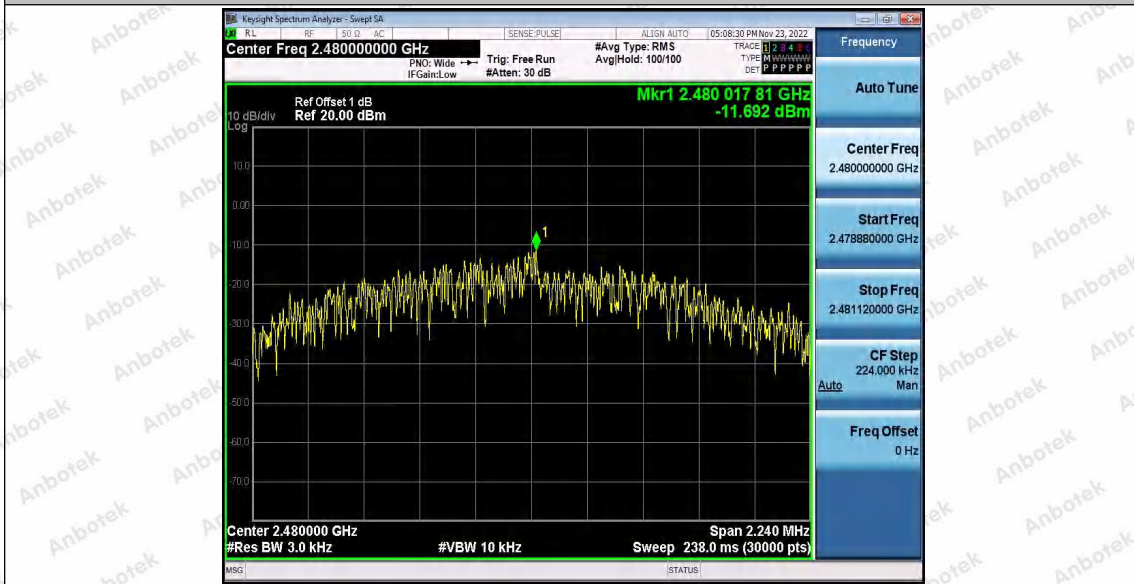
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BLE\_2M\_Ant1\_2480



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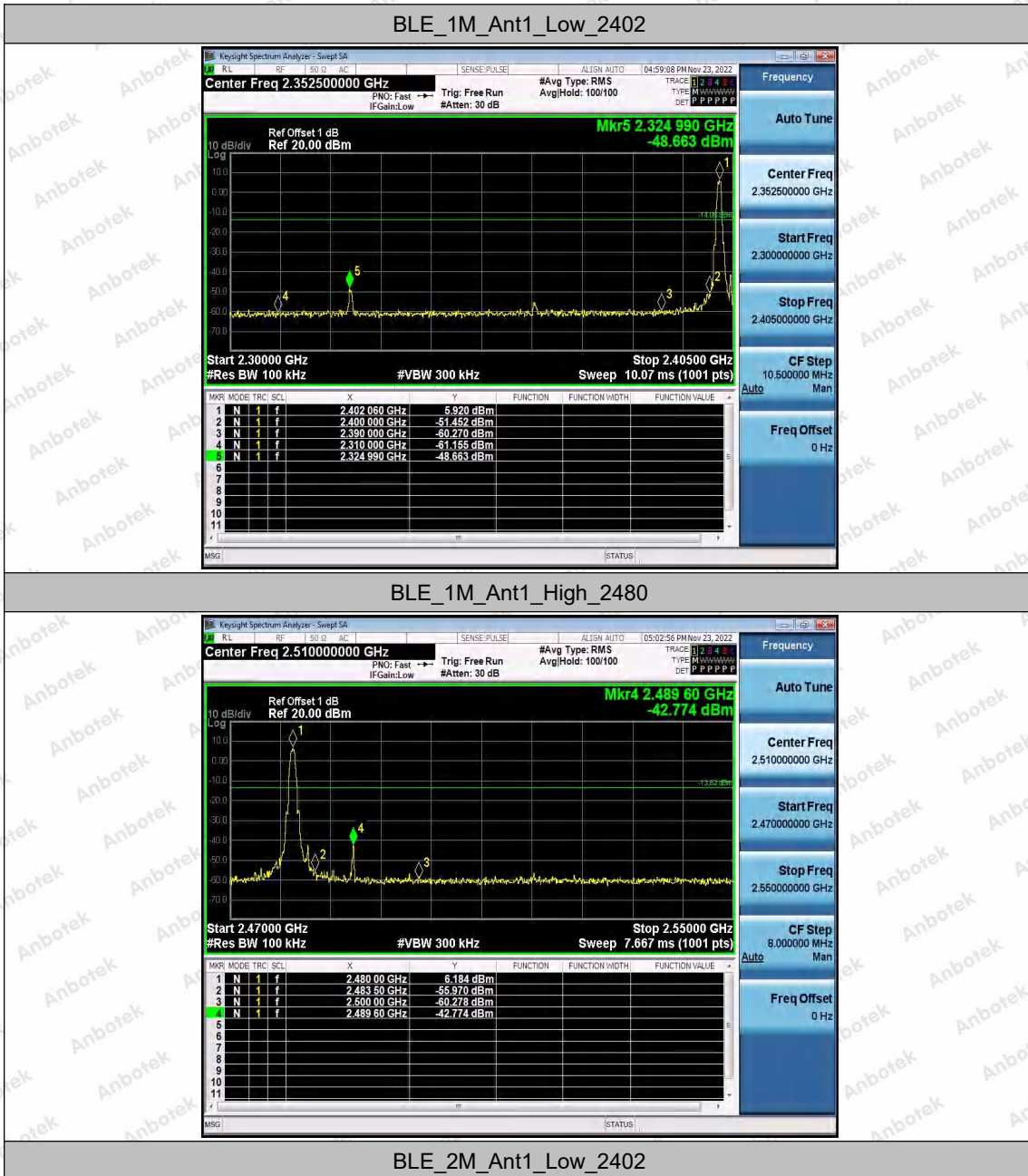
## Appendix E: Band edge measurements

### Test Result

Test Mode	Antenna	Ch Name	Frequency[MHz]	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	5.92	-48.66	≤-14.08	PASS
		High	2480	6.18	-42.77	≤-13.82	PASS
BLE_2M	Ant1	Low	2402	4.97	-28.81	≤-15.04	PASS
		High	2480	6.07	-41.69	≤-13.93	PASS



## Test Graphs



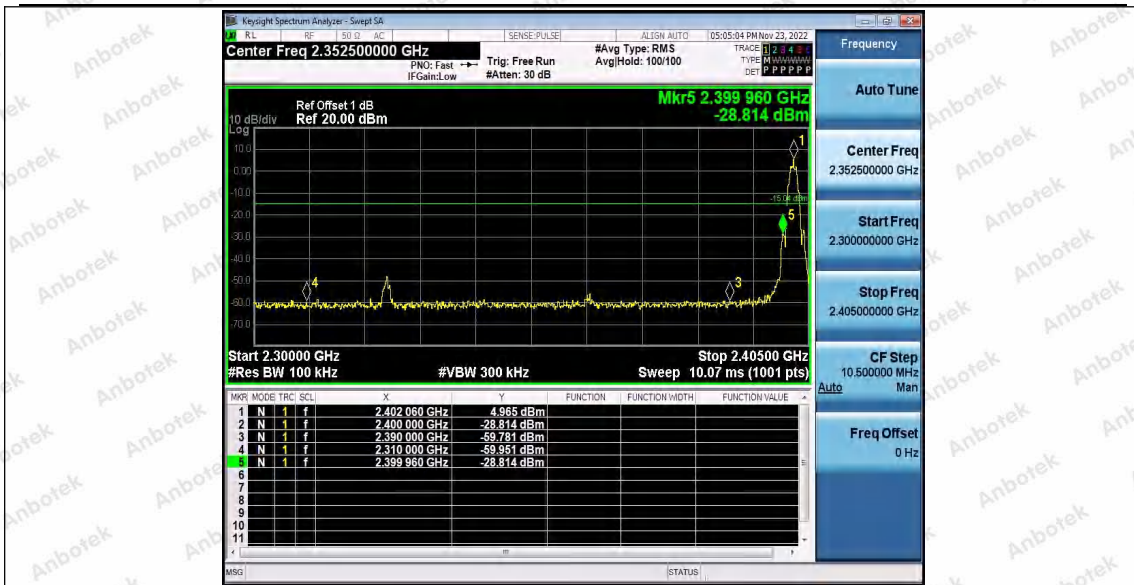
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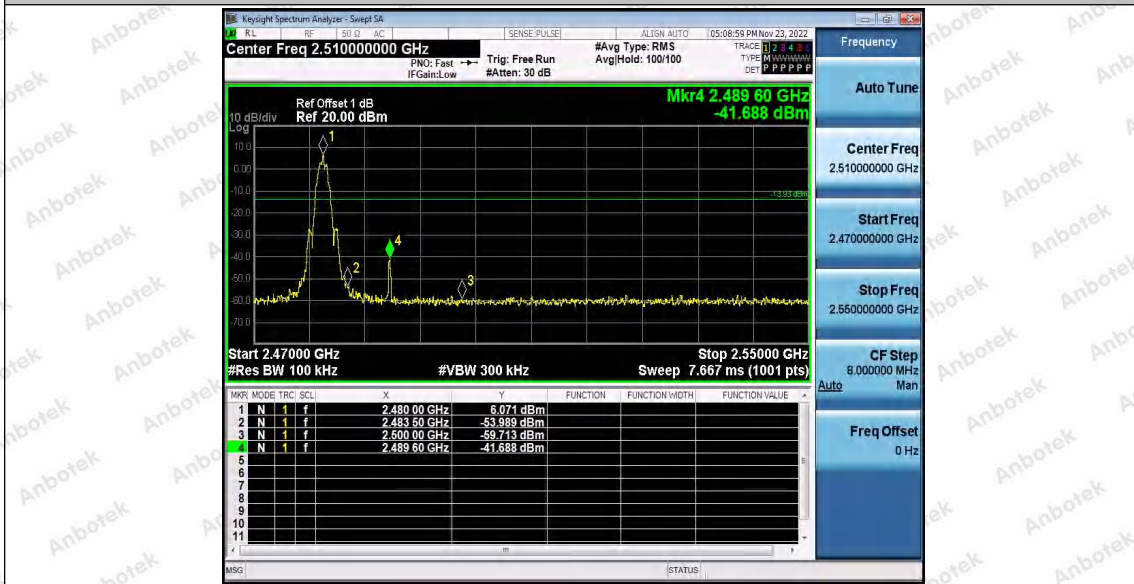
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BLE\_2M\_Ant1\_High\_2480



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## Appendix F: Conducted Spurious Emission

### Test Result

Test Mode	Antenna	Frequency[MHz]	Freq Range [MHz]	Ref Level [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	4.88	4.88	---	PASS
			30~1000	4.88	-67.41	≤-15.12	PASS
			1000~26500	4.88	-52.72	≤-15.12	PASS
		2440	Reference	5.01	5.01	---	PASS
			30~1000	5.01	-69.12	≤-14.99	PASS
			1000~26500	5.01	-51.73	≤-14.99	PASS
		2480	Reference	4.44	4.44	---	PASS
			30~1000	4.44	-68.14	≤-15.56	PASS
			1000~26500	4.44	-50.31	≤-15.56	PASS
BLE_2M	Ant1	2402	Reference	2.38	2.38	---	PASS
			30~1000	2.38	-68.9	≤-17.62	PASS
			1000~26500	2.38	-52.4	≤-17.62	PASS
		2440	Reference	4.04	4.04	---	PASS
			30~1000	4.04	-68.84	≤-15.96	PASS
			1000~26500	4.04	-52.8	≤-15.96	PASS
		2480	Reference	6.00	6.00	---	PASS
			30~1000	6.00	-68.98	≤-14	PASS
			1000~26500	6.00	-53.39	≤-14	PASS





## Test Graphs



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BLE\_1M\_Ant1\_2440\_0~Reference



BLE\_1M\_Ant1\_2440\_30~1000

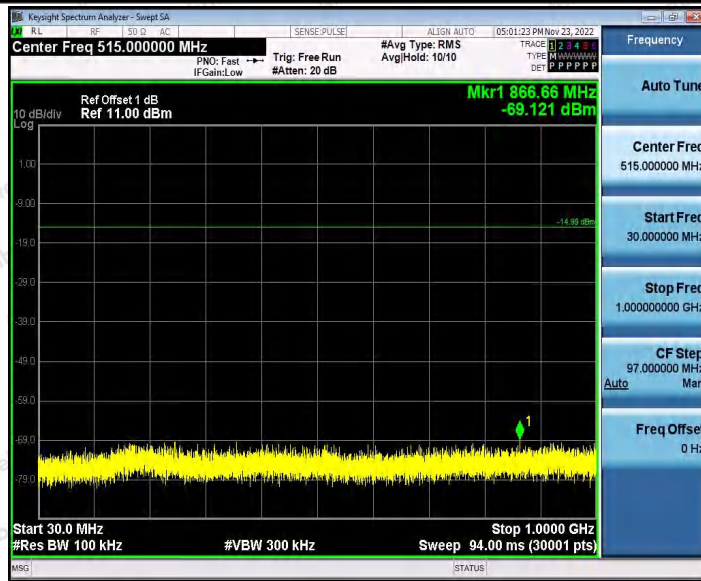
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BLE\_1M\_Ant1\_2440\_1000~26500



BLE\_1M\_Ant1\_2480\_0~Reference

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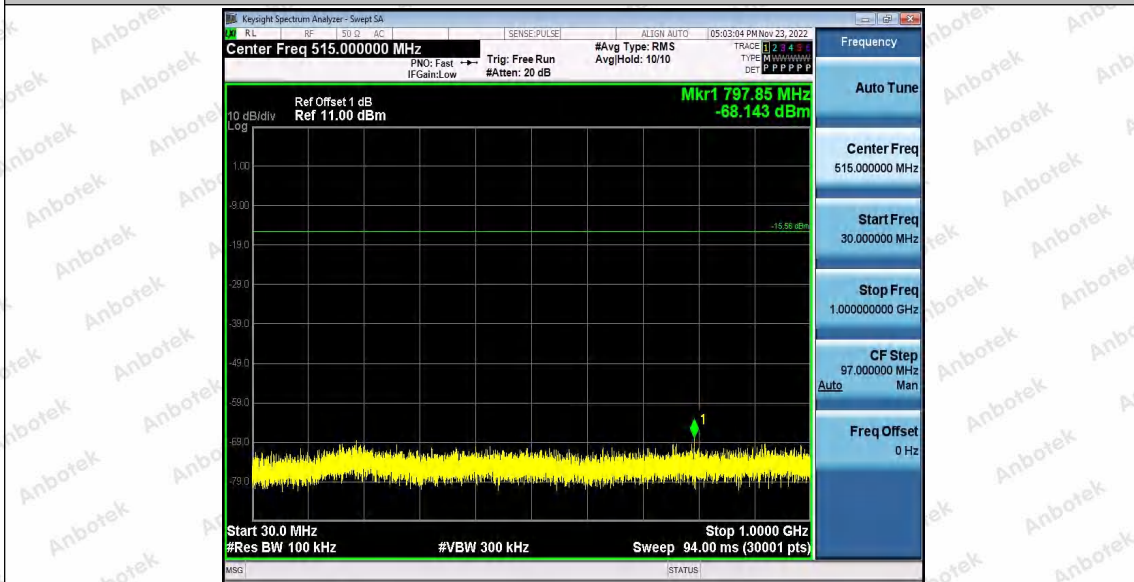
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BLE\_1M\_Ant1\_2480\_30~1000



BLE\_1M\_Ant1\_2480\_1000~26500

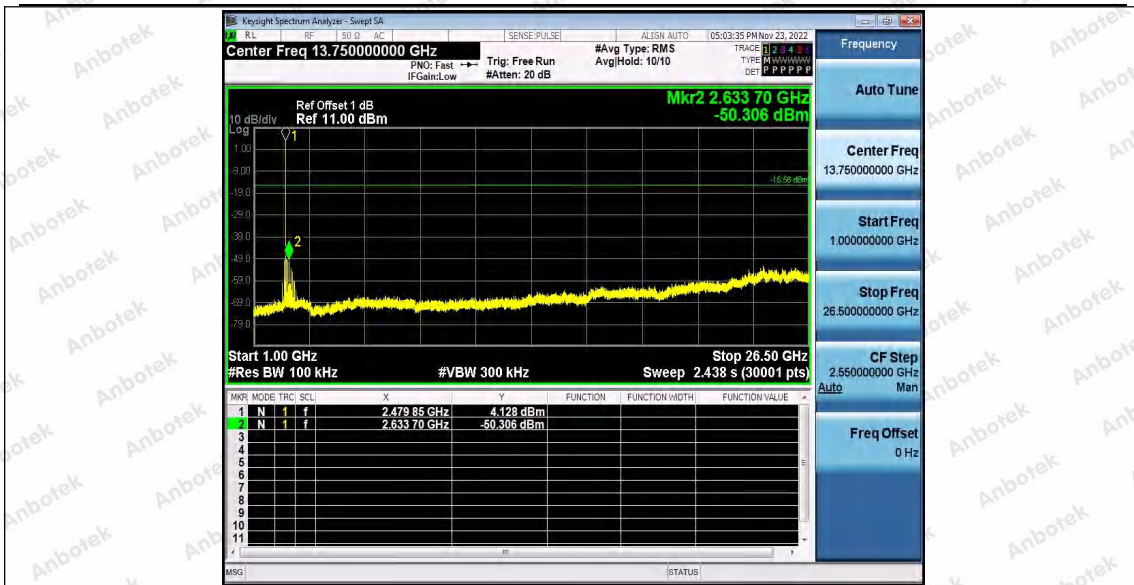
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BLE\_2M\_Ant1\_2402\_0~Reference



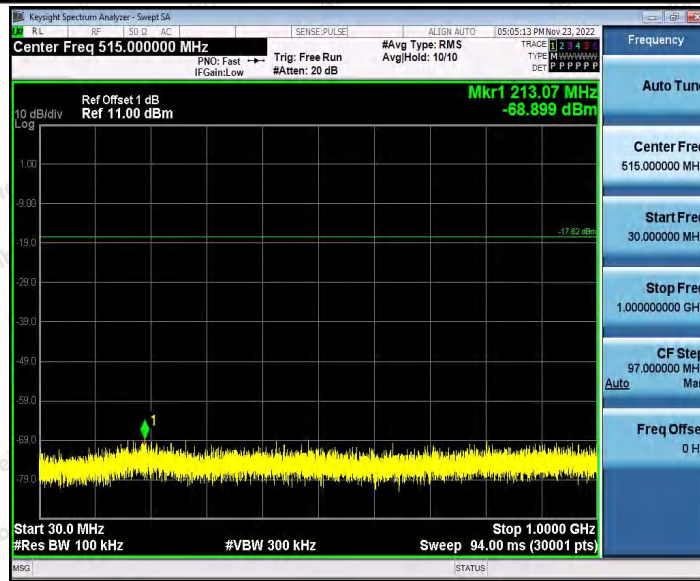
BLE\_2M\_Ant1\_2402\_30~1000

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BLE\_2M\_Ant1\_2402\_1000~26500



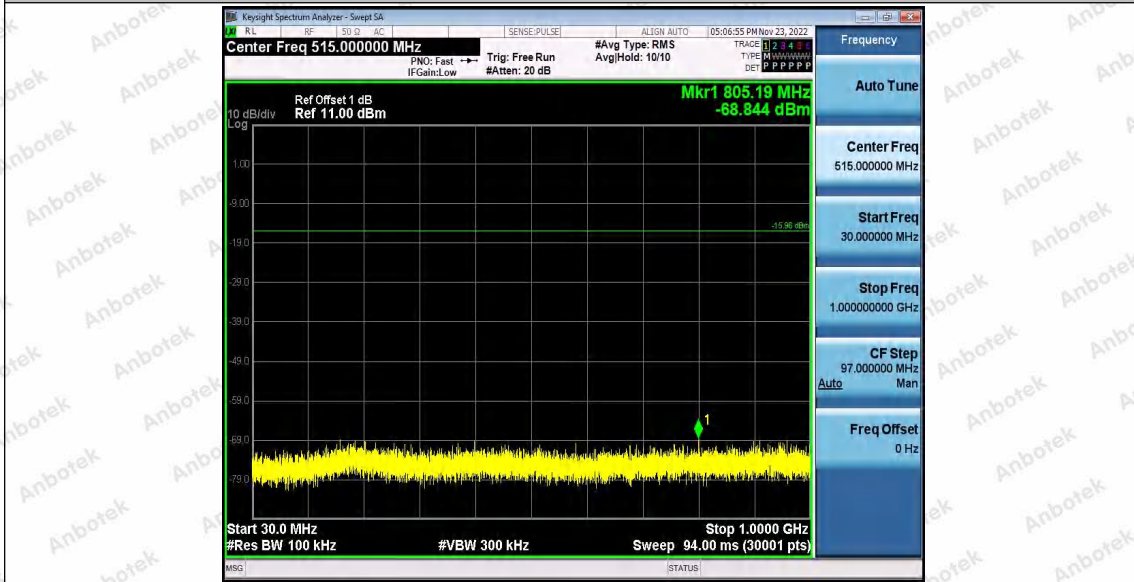
BLE\_2M\_Ant1\_2440\_0~Reference







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

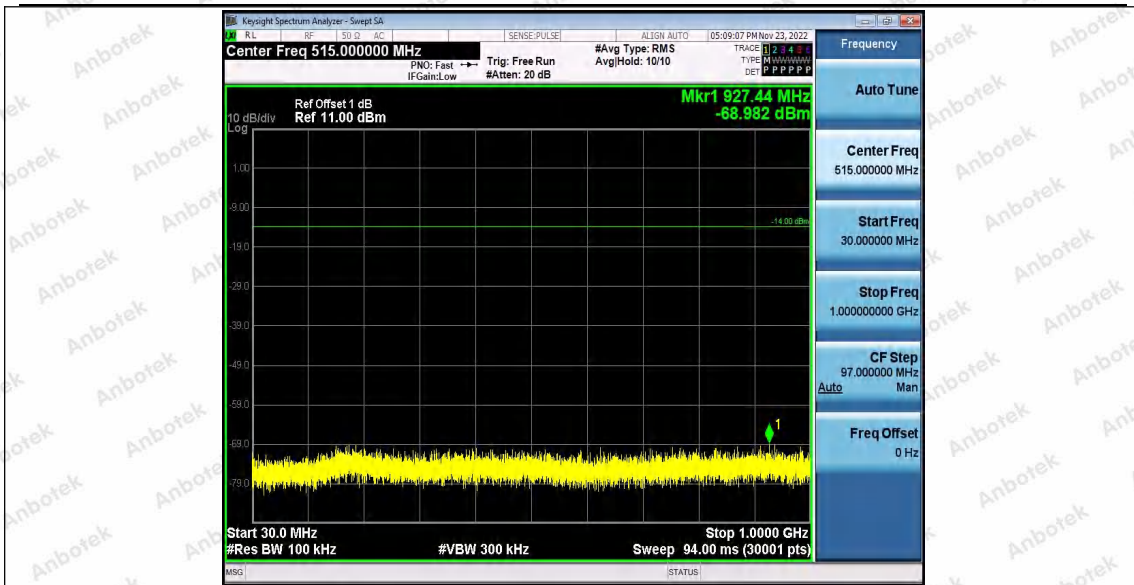
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BLE\_2M\_Ant1\_2480\_1000~26500



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## Appendix G: Duty Cycle

### Test Result

Test Mode	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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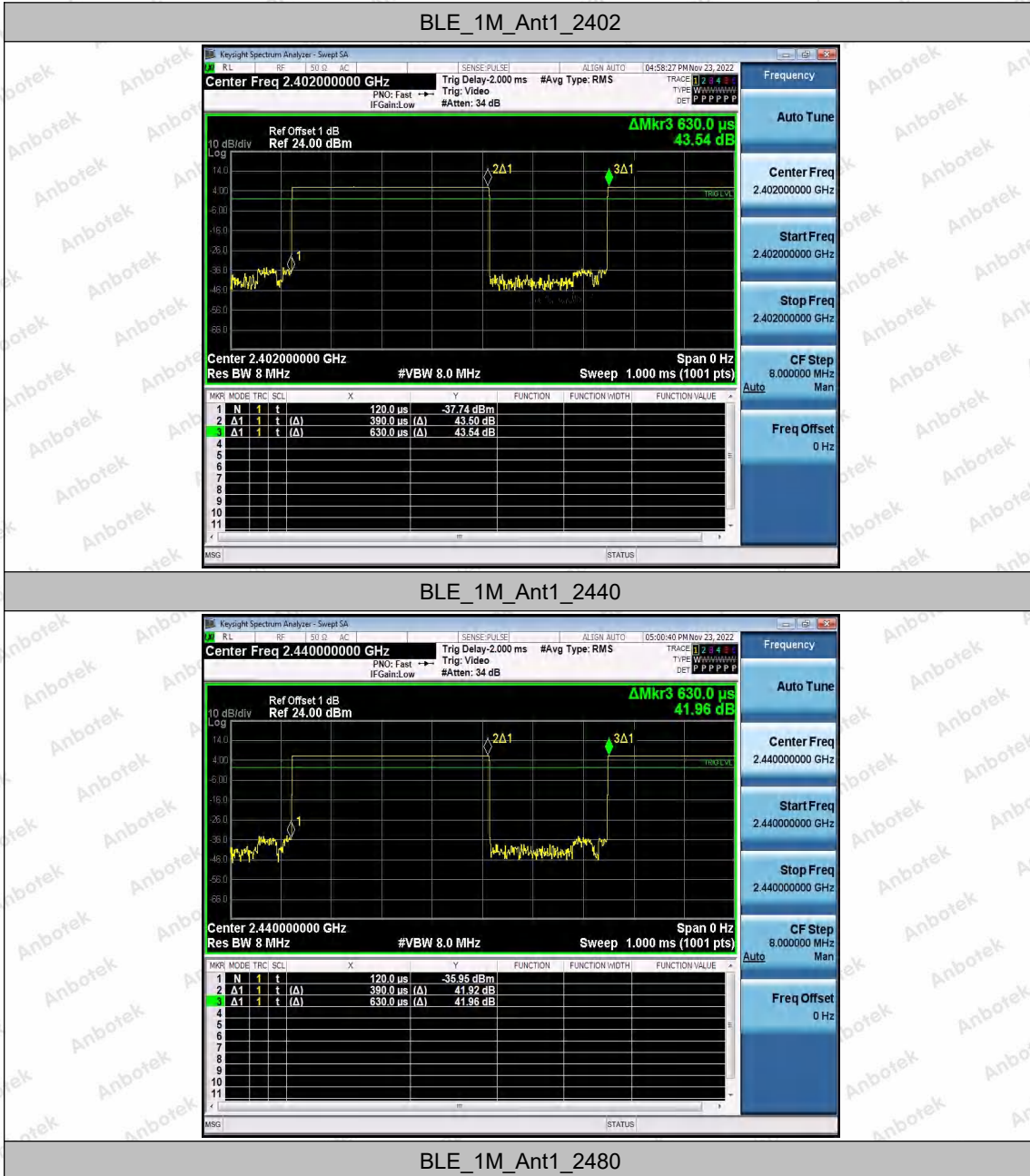


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## Test Graphs

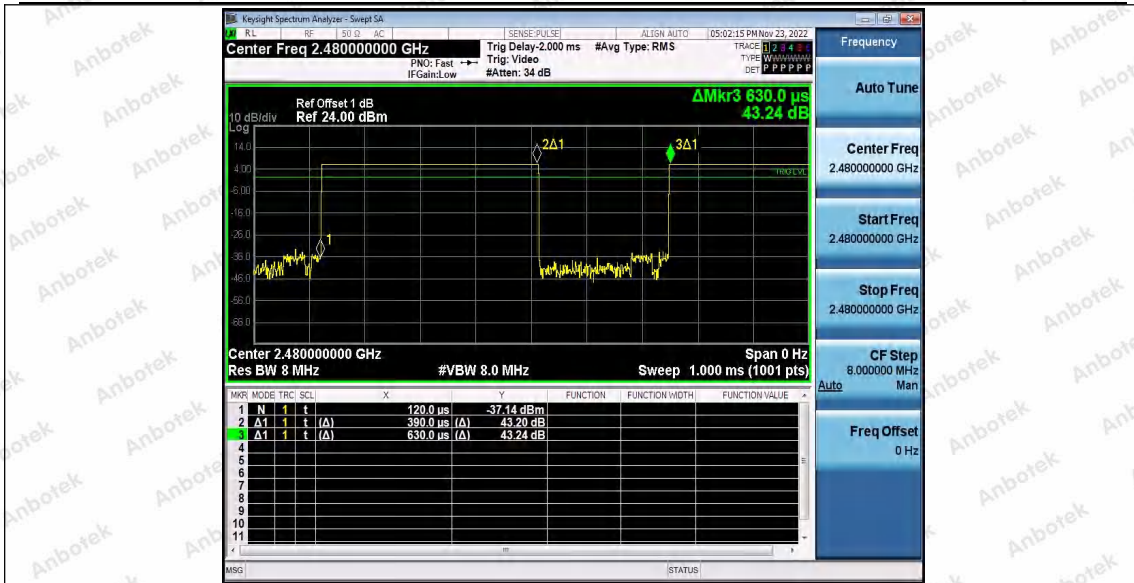


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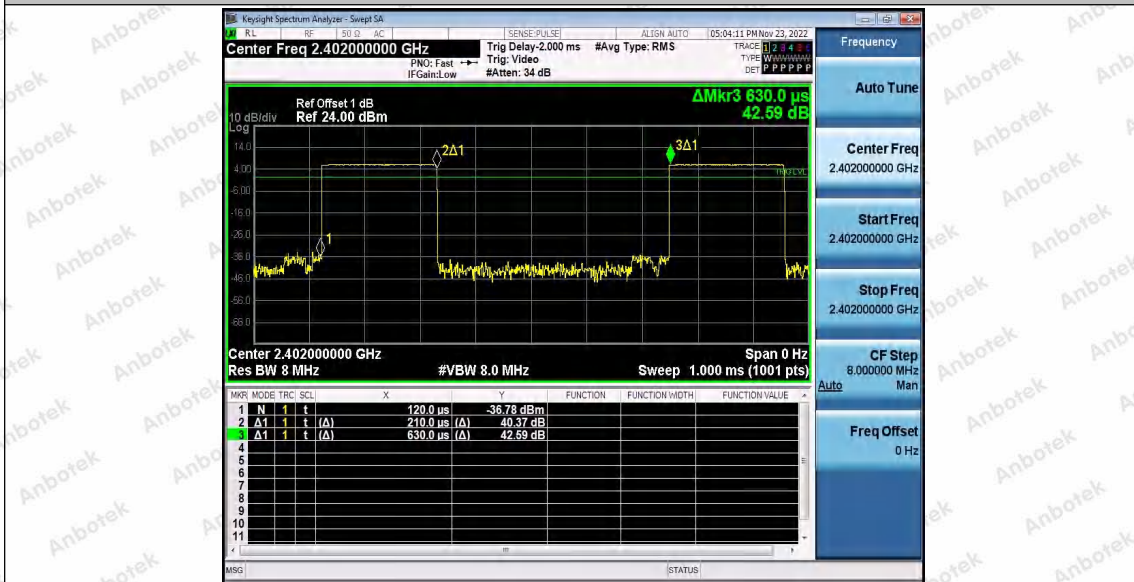
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BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440

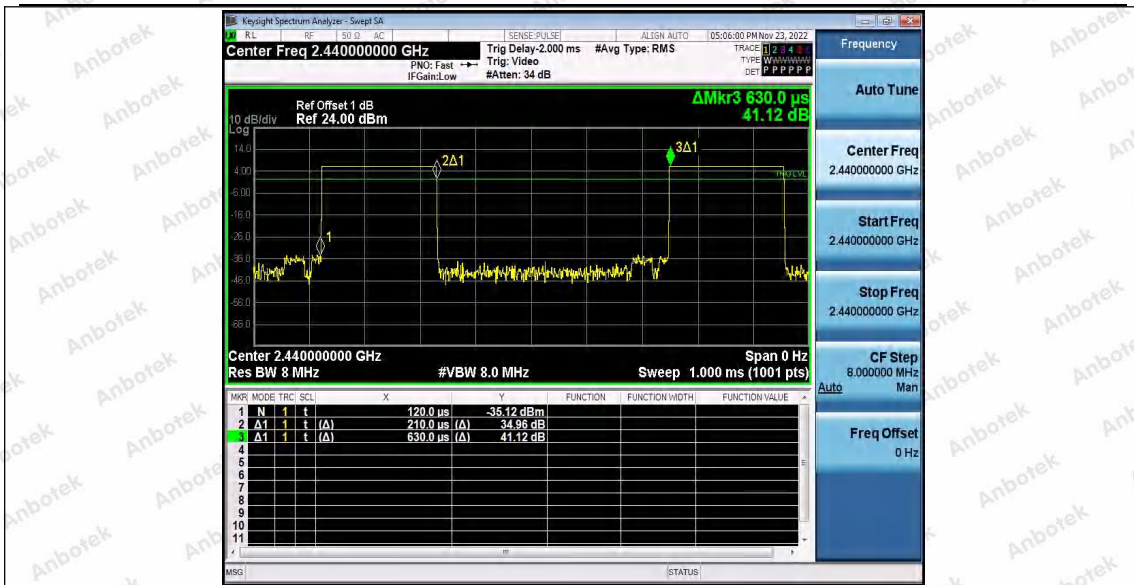
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 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

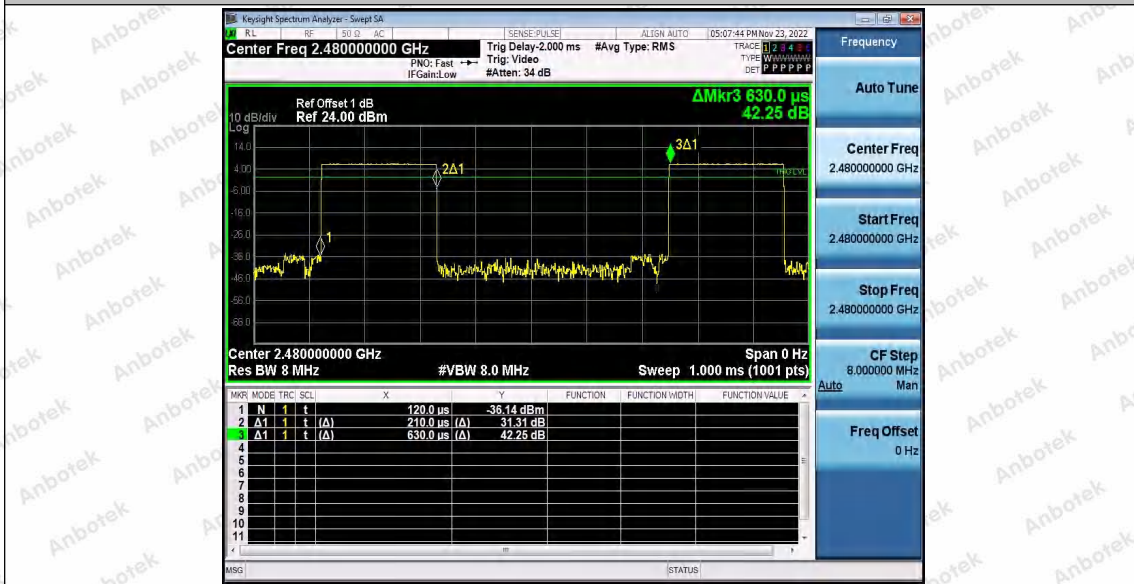
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BLE\_2M\_Ant1\_2480



---End---

