

## Appendix Test Data

Report No.:	18220WC20193101	Test Sample No.:	1-2-2
Start Test Date:	2022.8.22	Finish Test Date:	2022.9.13
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	0.644	2401.680	2402.324	0.5	PASS
		2440	0.640	2439.692	2440.332	0.5	PASS
		2480	0.648	2479.680	2480.328	0.5	PASS
BLE_2M	Ant1	2402	1.168	2401.424	2402.592	0.5	PASS
		2440	1.124	2439.468	2440.592	0.5	PASS
		2480	1.124	2479.428	2480.552	0.5	PASS



## Test Graphs

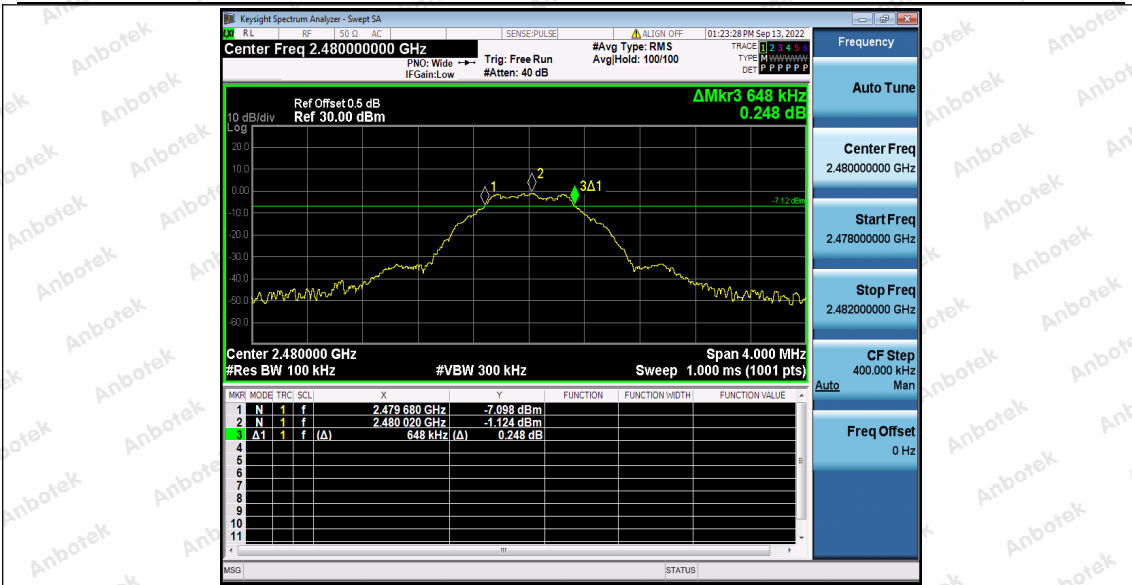


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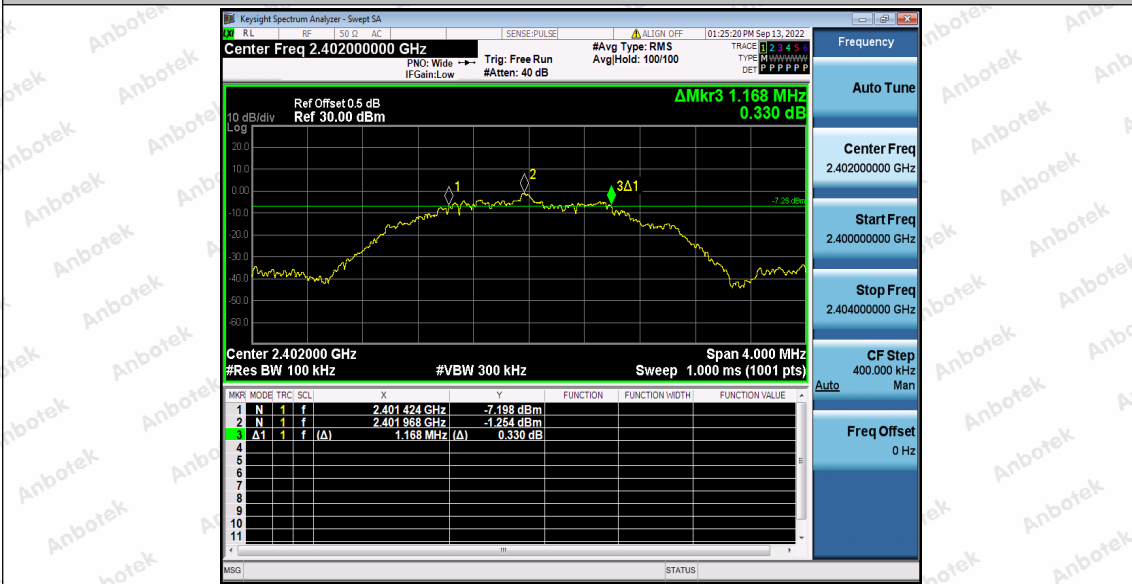
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BLE\_2M\_Ant1\_2402



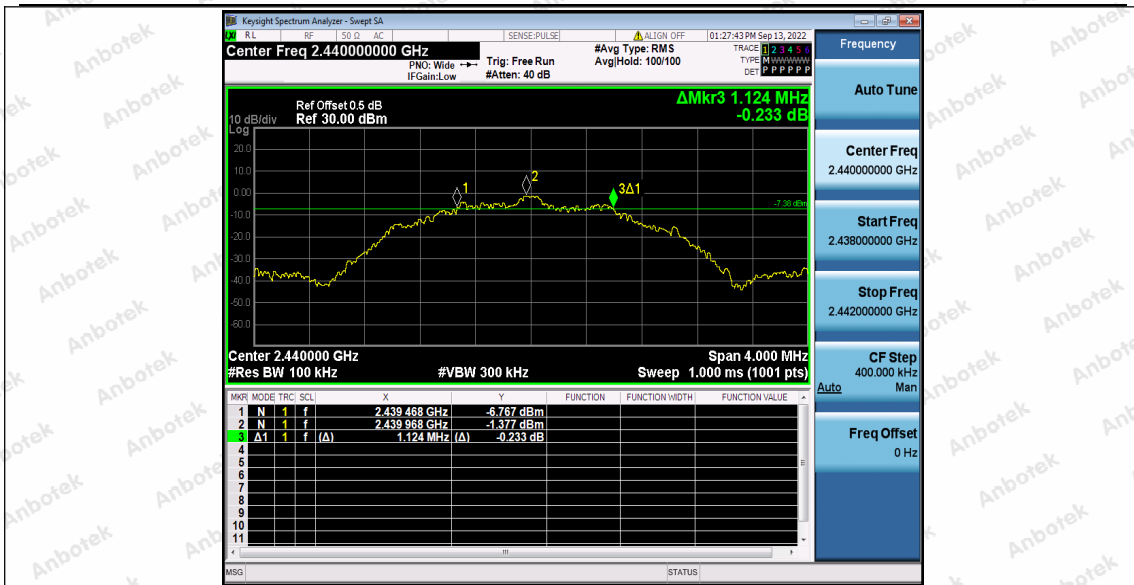
BLE\_2M\_Ant1\_2440

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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	1.0140	2401.5084	2402.5224
		2440	1.0176	2439.5060	2440.5236
		2480	1.0134	2479.5086	2480.5220
BLE_2M	Ant1	2402	2.0407	2401.0066	2403.0473
		2440	2.0334	2439.0132	2441.0466
		2480	2.0303	2479.0134	2481.0437

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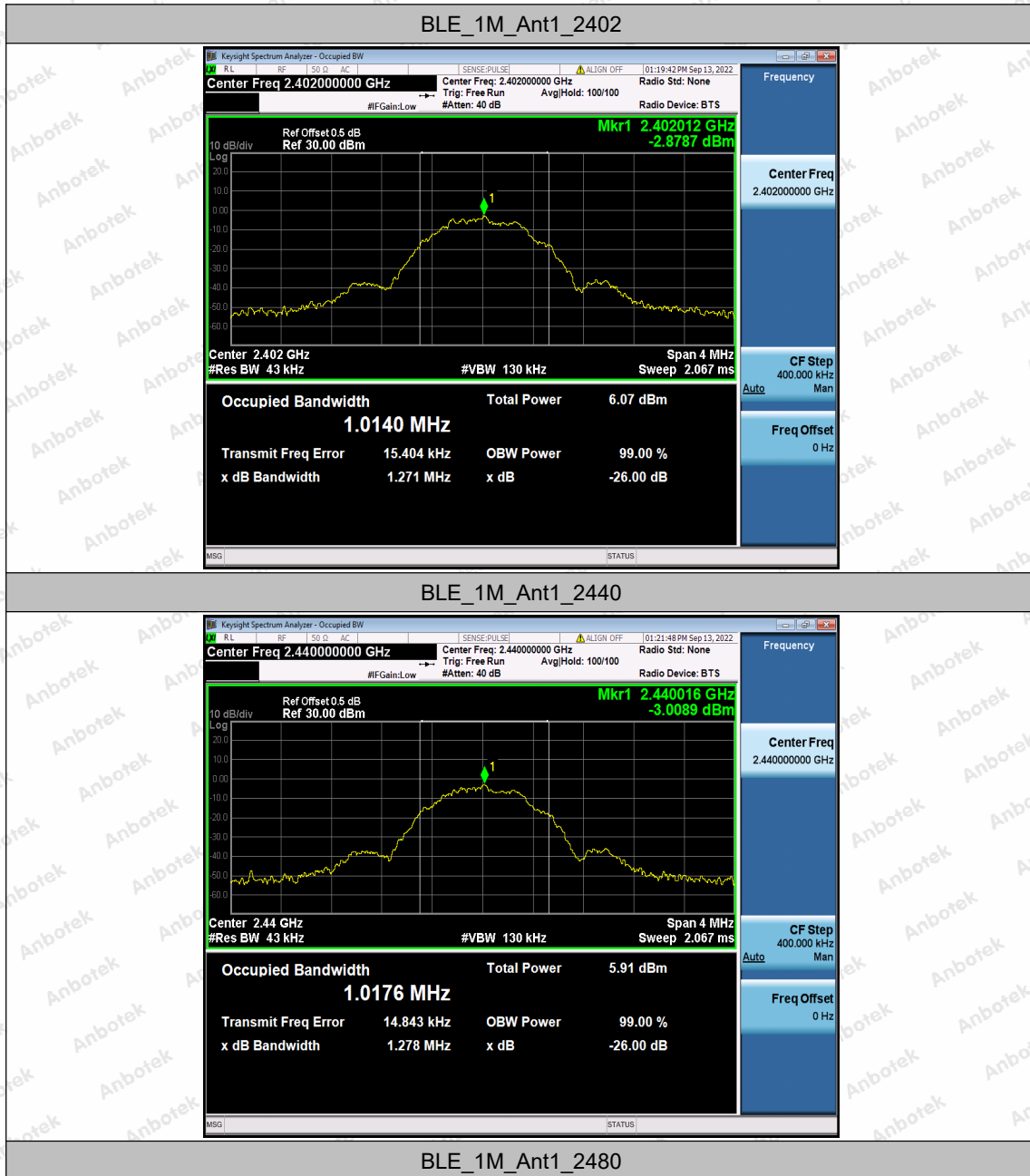
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## Test Graphs



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BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440

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## 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	-0.57	≤30	PASS
		2440	-0.69	≤30	PASS
		2480	-0.58	≤30	PASS
BLE_2M	Ant1	2402	-0.47	≤30	PASS
		2440	-0.62	≤30	PASS
		2480	-0.57	≤30	PASS

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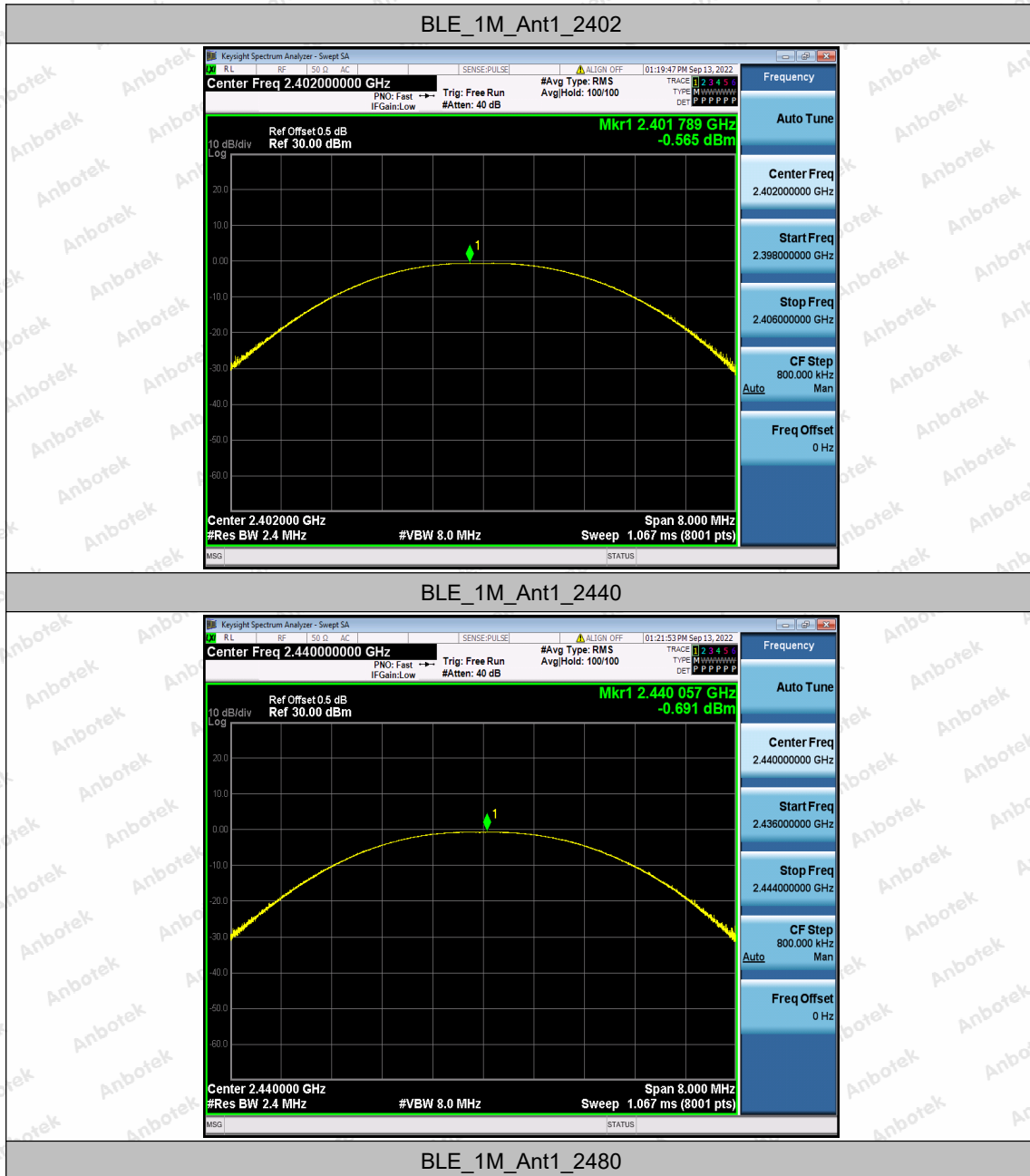
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## Test Graphs Peak

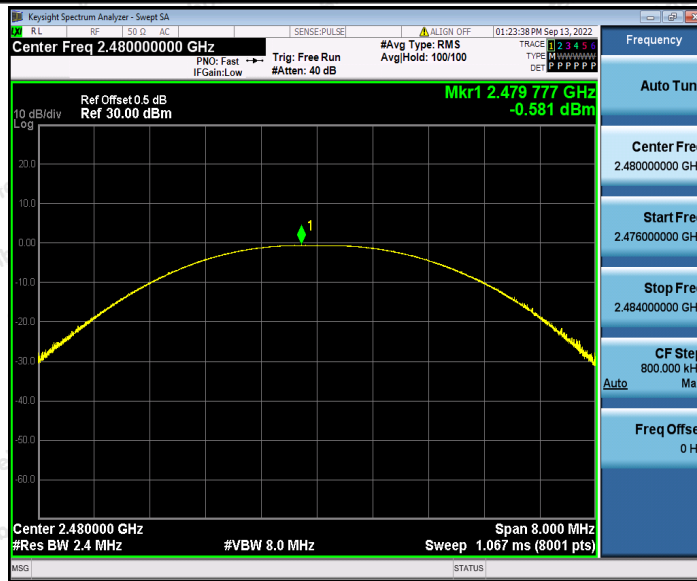


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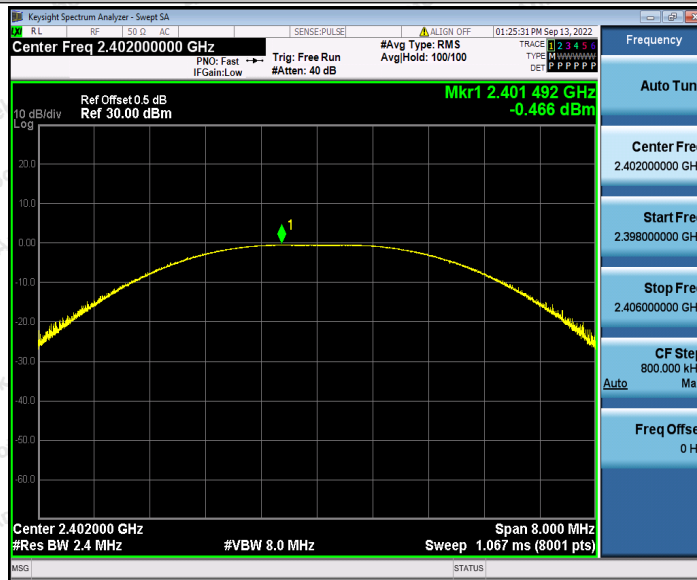
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BLE\_2M\_Ant1\_2402



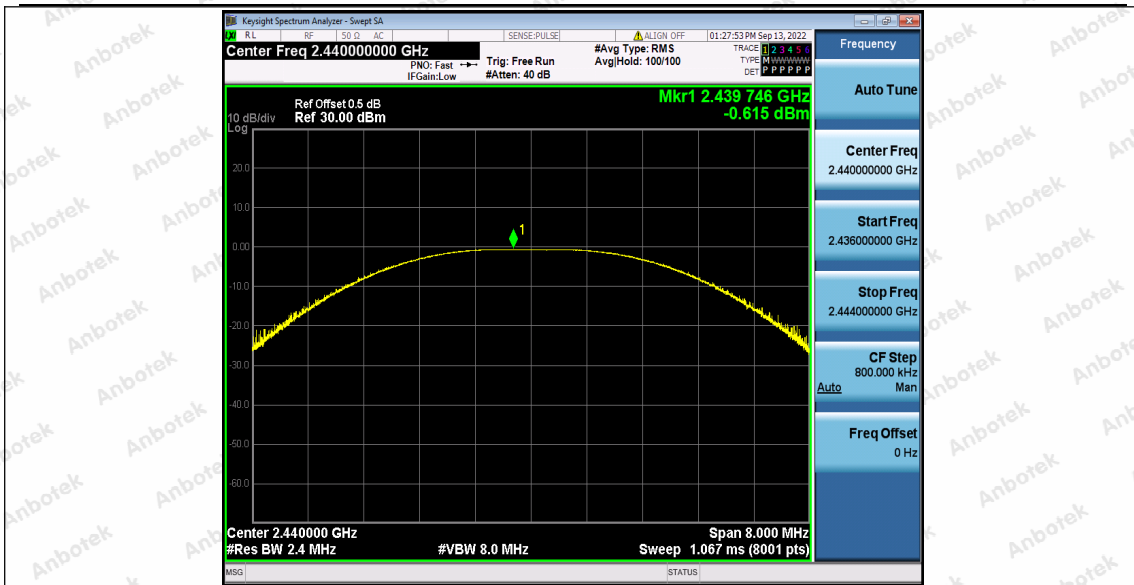
BLE\_2M\_Ant1\_2440

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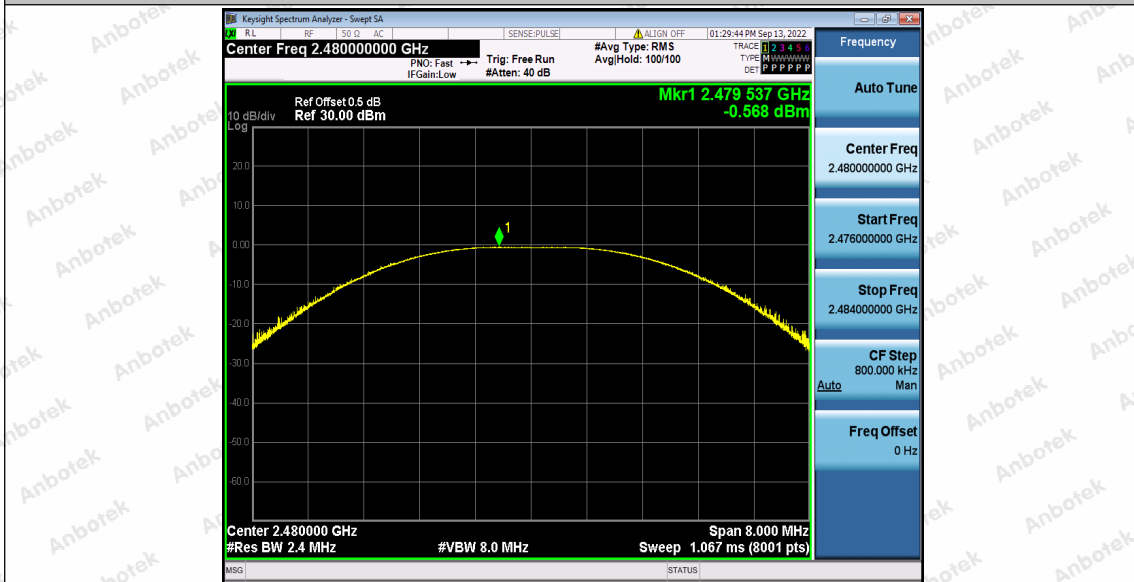
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## Appendix D: Maximum power spectral density

### Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.24	≤8.00	PASS
		2440	-15.34	≤8.00	PASS
		2480	-15.21	≤8.00	PASS
BLE_2M	Ant1	2402	-18.19	≤8.00	PASS
		2440	-18.34	≤8.00	PASS
		2480	-18.21	≤8.00	PASS

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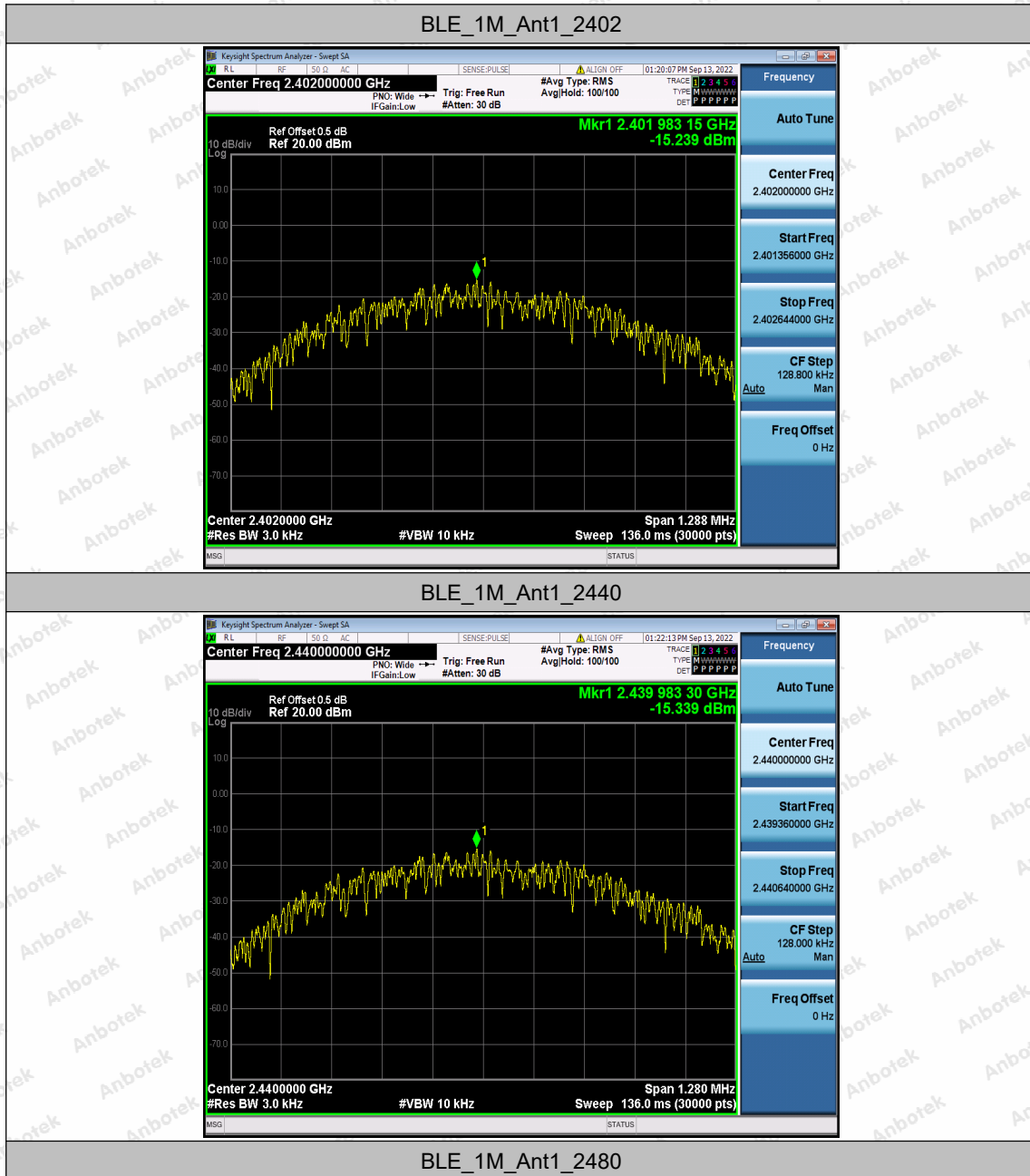
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## Test Graphs

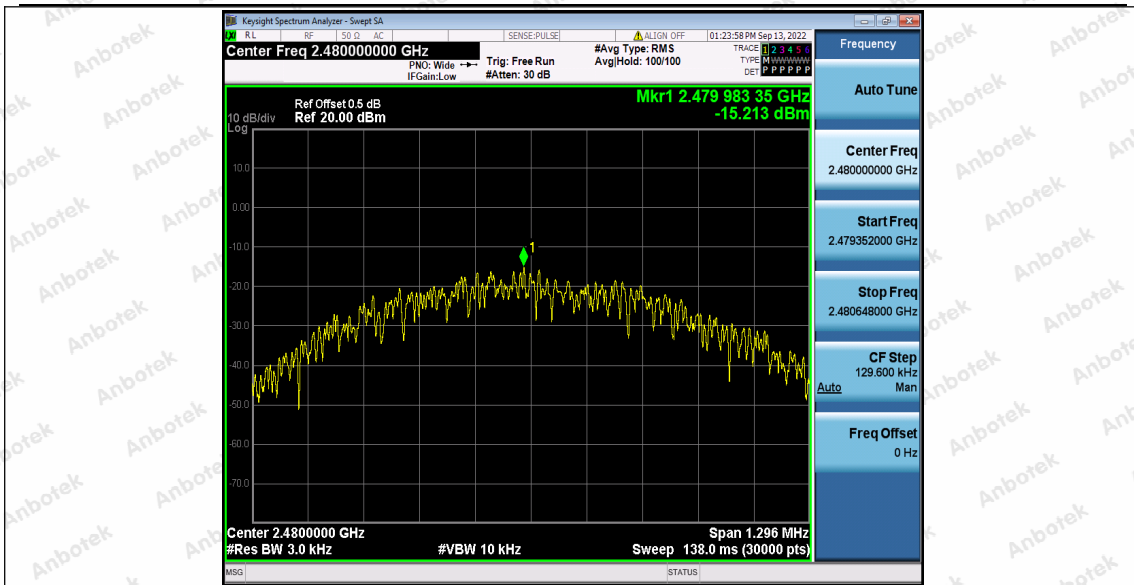


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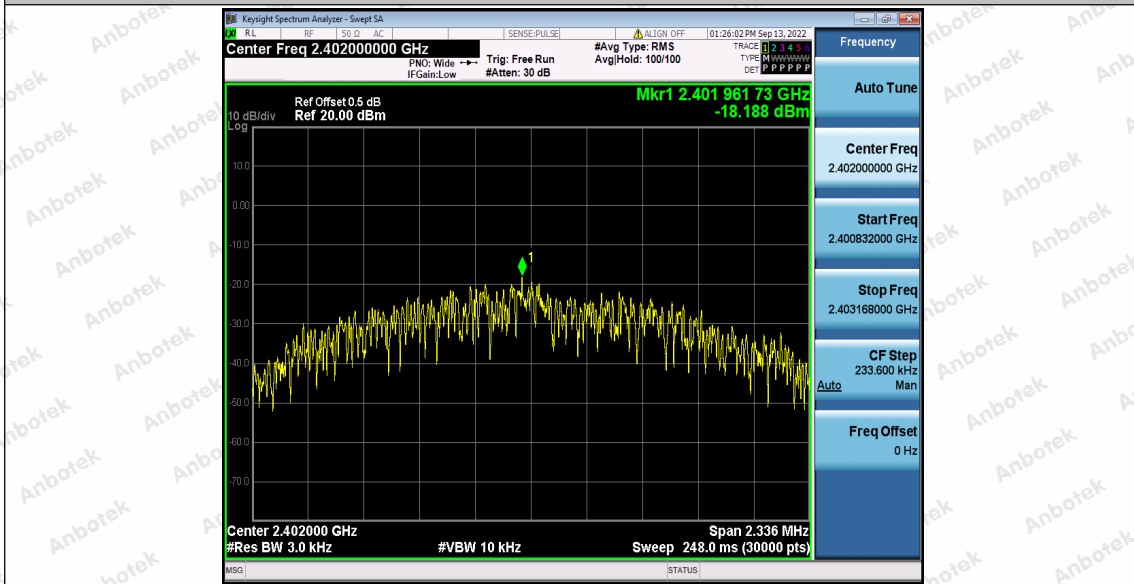
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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BLE\_2M\_Ant1\_2402



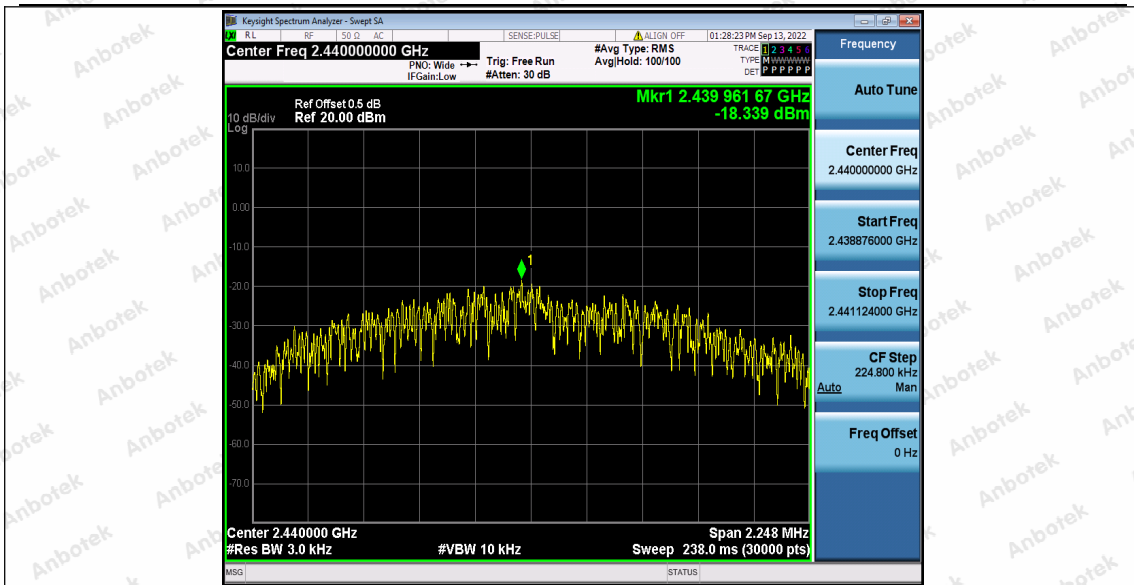
BLE\_2M\_Ant1\_2440

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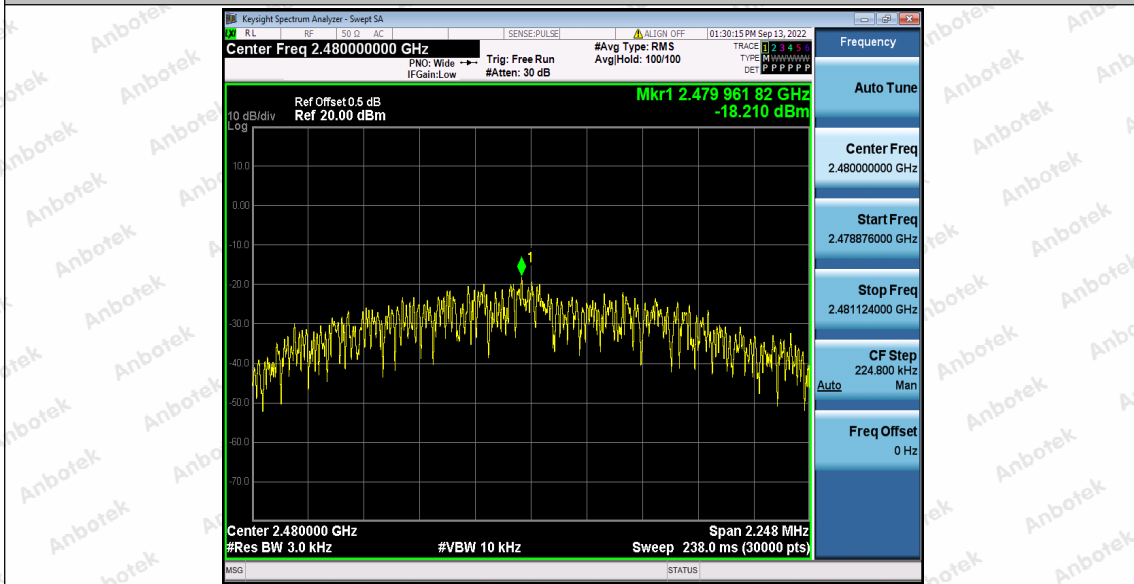
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## Appendix E: Band edge measurements

### Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.87	-49.75	≤-20.87	PASS
		High	2480	-1.27	-56.12	≤-21.27	PASS
BLE_2M	Ant1	Low	2402	-1.26	-35.75	≤-21.26	PASS
		High	2480	-0.99	-48.39	≤-20.99	PASS

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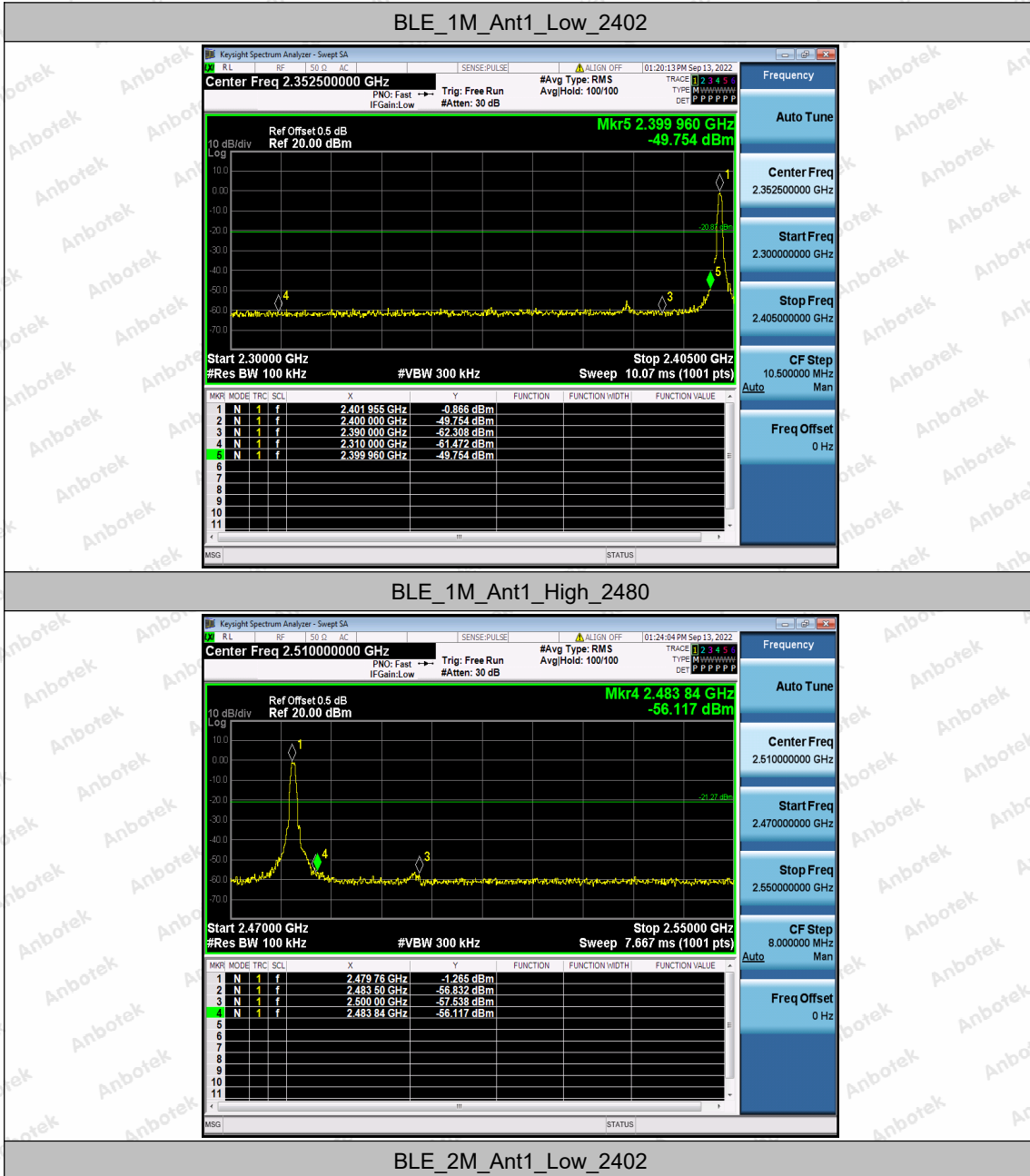
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## Test Graphs

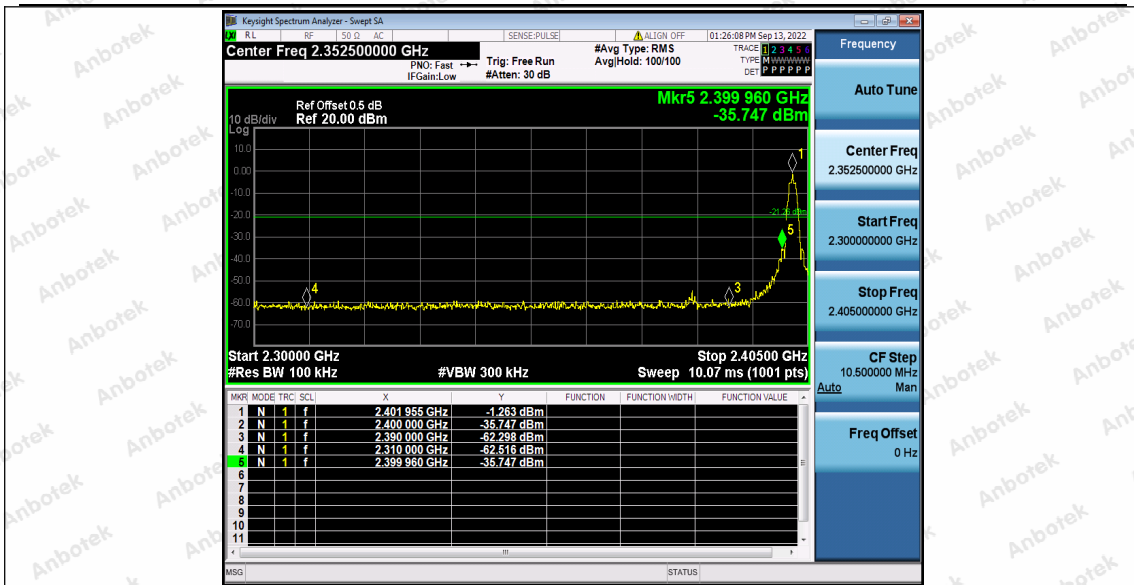


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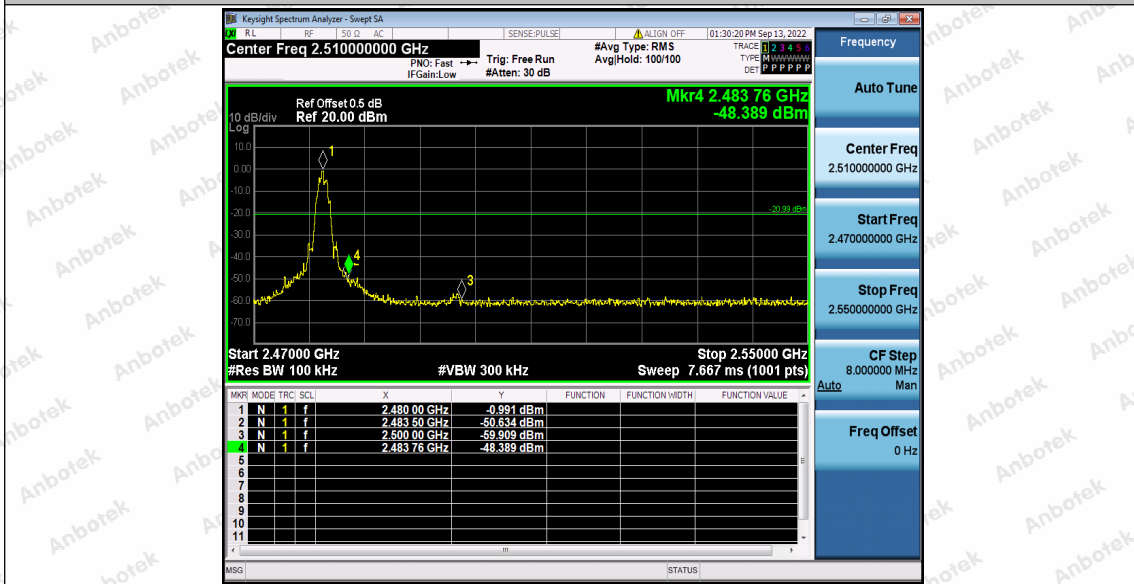
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BLE\_2M\_Ant1\_High\_2480



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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	-1.21	-1.21	---	PASS
			30~1000	-1.21	-66.48	≤-31.21	PASS
			1000~26500	-1.21	-51.19	≤-31.21	PASS
		2440	Reference	-2.06	-2.06	---	PASS
			30~1000	-2.06	-69.65	≤-32.06	PASS
			1000~26500	-2.06	-51.28	≤-32.06	PASS
		2480	Reference	-1.11	-1.11	---	PASS
			30~1000	-1.11	-66.57	≤-31.11	PASS
			1000~26500	-1.11	-52.12	≤-31.11	PASS
BLE_2M	Ant1	2402	Reference	-1.14	-1.14	---	PASS
			30~1000	-1.14	-67.26	≤-31.14	PASS
			1000~26500	-1.14	-54.37	≤-31.14	PASS
		2440	Reference	-1.50	-1.50	---	PASS
			30~1000	-1.50	-69.6	≤-31.5	PASS
			1000~26500	-1.50	-53.54	≤-31.5	PASS
		2480	Reference	-1.40	-1.40	---	PASS
			30~1000	-1.40	-67.6	≤-31.4	PASS
			1000~26500	-1.40	-53.32	≤-31.4	PASS

