

## Appendix Test Data

Report No.:	18220WC20161402	Test Sample No.:	1-2-2
Start Test Date:	2022.7.18	Finish Test Date:	2022.7.26
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	22.6°C	Relative Humidity:	53.8 %
Pressure:	1012 hPa		

## Appendix A: DTS Bandwidth

## Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.508	2401.720	2402.228	≥0.5	PASS
		2440	0.516	2439.720	2440.236	≥0.5	PASS
		2480	0.504	2479.716	2480.220	≥0.5	PASS
BLE_2M	Ant1	2402	0.848	2401.456	2402.304	≥0.5	PASS
		2440	0.836	2439.464	2440.300	≥0.5	PASS
		2480	0.860	2479.460	2480.320	≥0.5	PASS

## Test Graphs







BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440



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## Appendix B: Occupied Channel Bandwidth

### Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0238	2401.549	2402.573	---	PASS
		2440	1.0119	2439.554	2440.566	---	PASS
		2480	1.0277	2479.546	2480.574	---	PASS
BLE_2M	Ant1	2402	2.0402	2401.045	2403.085	---	PASS
		2440	2.0344	2439.044	2441.078	---	PASS
		2480	2.0343	2479.048	2481.082	---	PASS



## Test Graphs



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BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440



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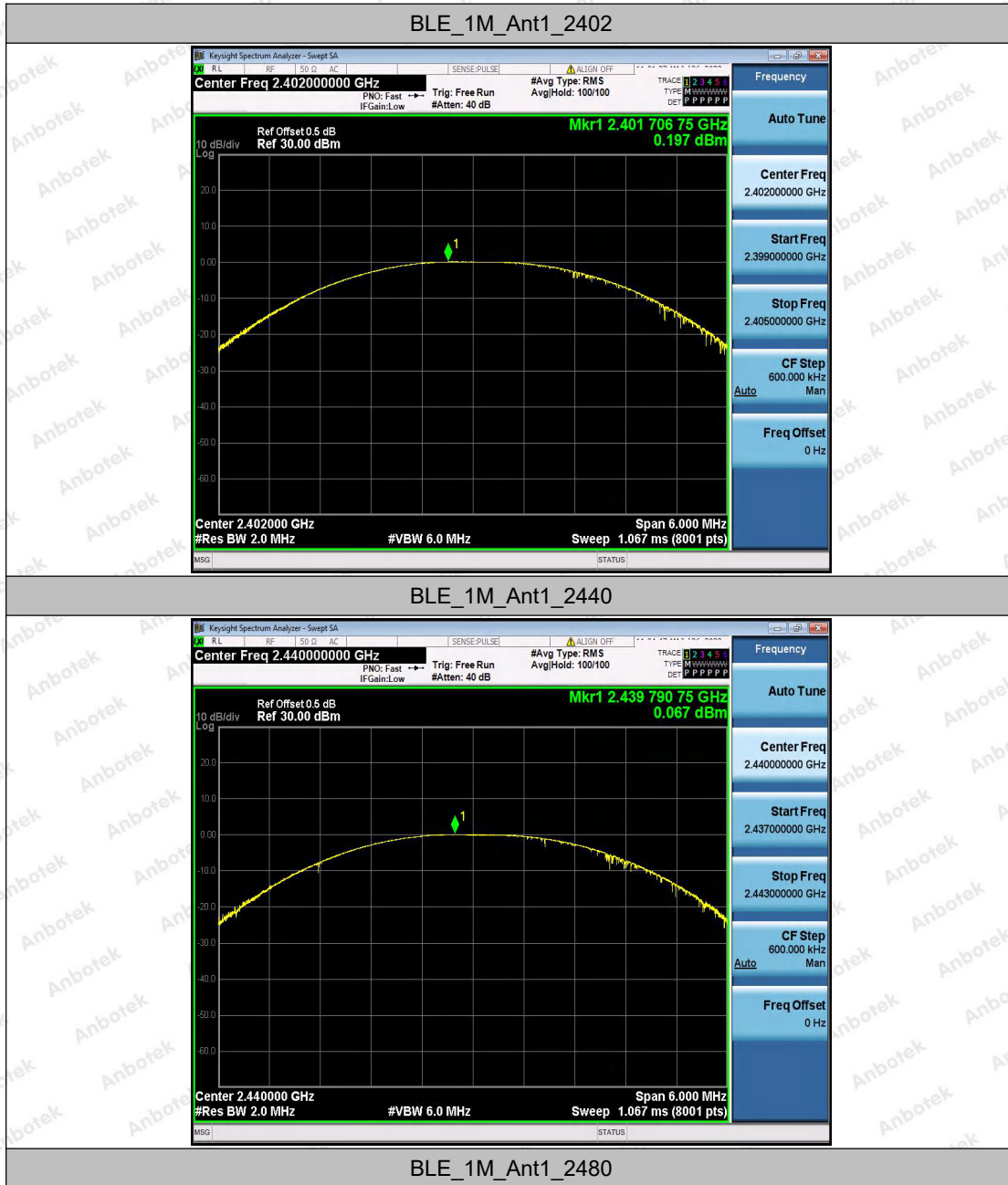


## Appendix C: Maximum conducted output power

### Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.2	≤30	PASS
		2440	0.07	≤30	PASS
		2480	-0.7	≤30	PASS
BLE_2M	Ant1	2402	0.33	≤30	PASS
		2440	0.23	≤30	PASS
		2480	-0.58	≤30	PASS

## Test Graphs

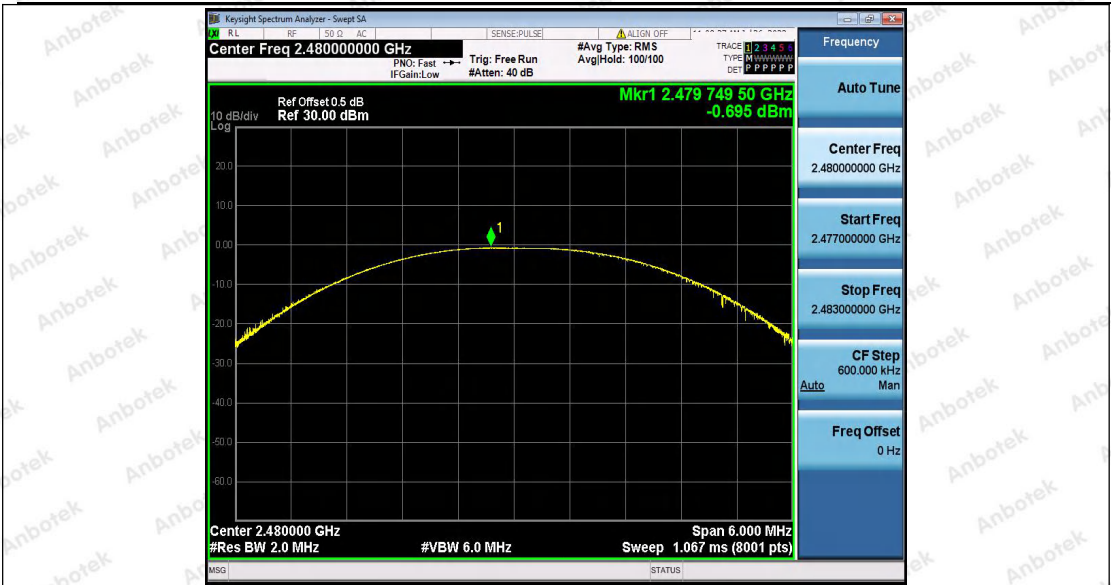


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BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440



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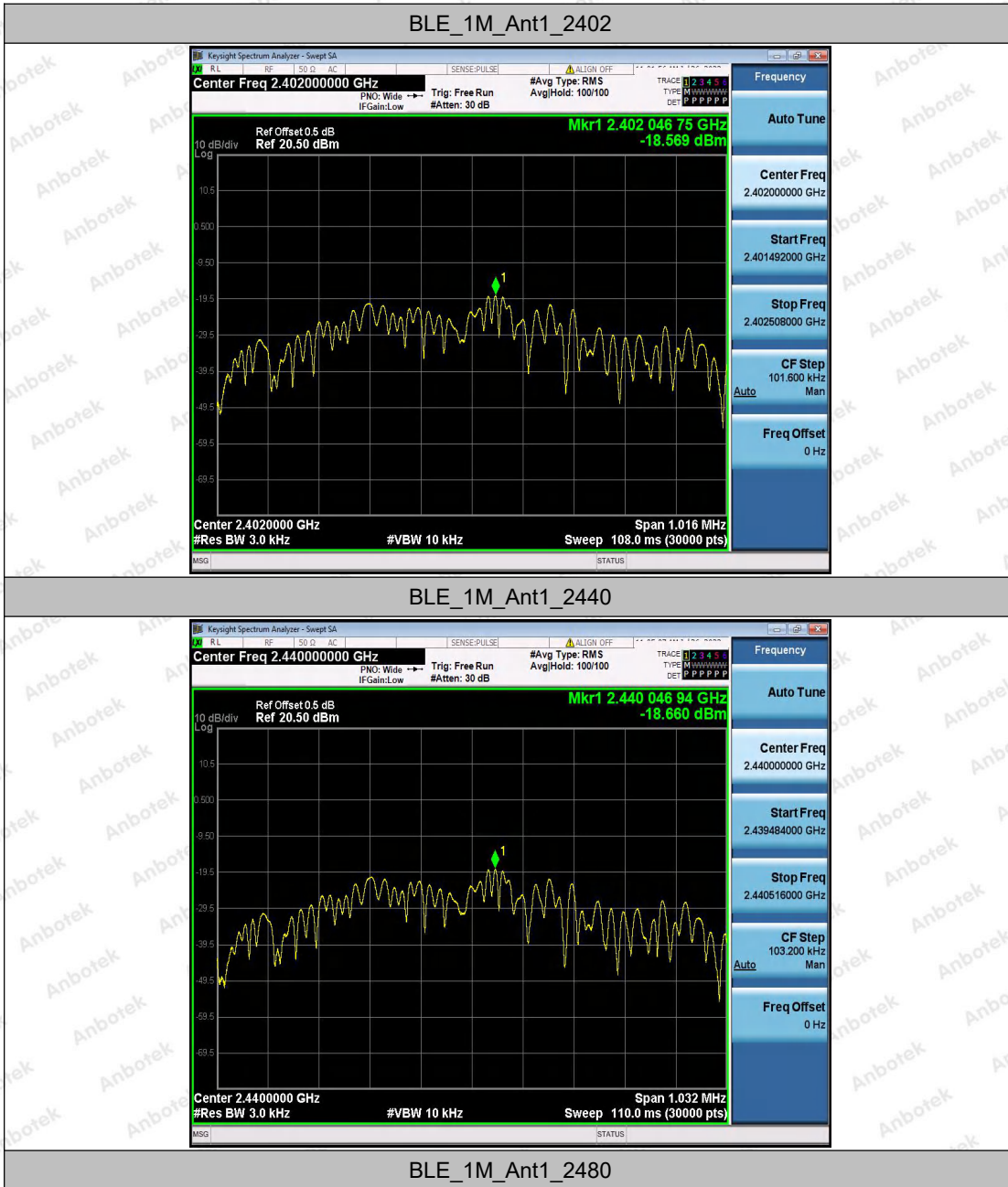


## Appendix D: Maximum power spectral density

### Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.57	≤8	PASS
		2440	-18.66	≤8	PASS
		2480	-19.27	≤8	PASS
BLE_2M	Ant1	2402	-20.5	≤8	PASS
		2440	-20.69	≤8	PASS
		2480	-21.42	≤8	PASS

## Test Graphs

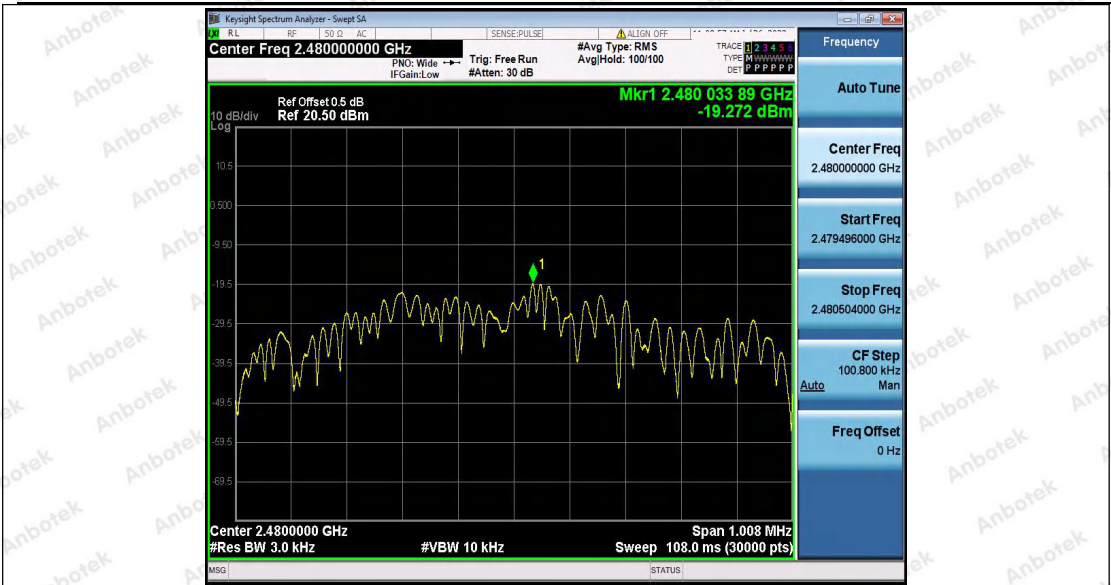


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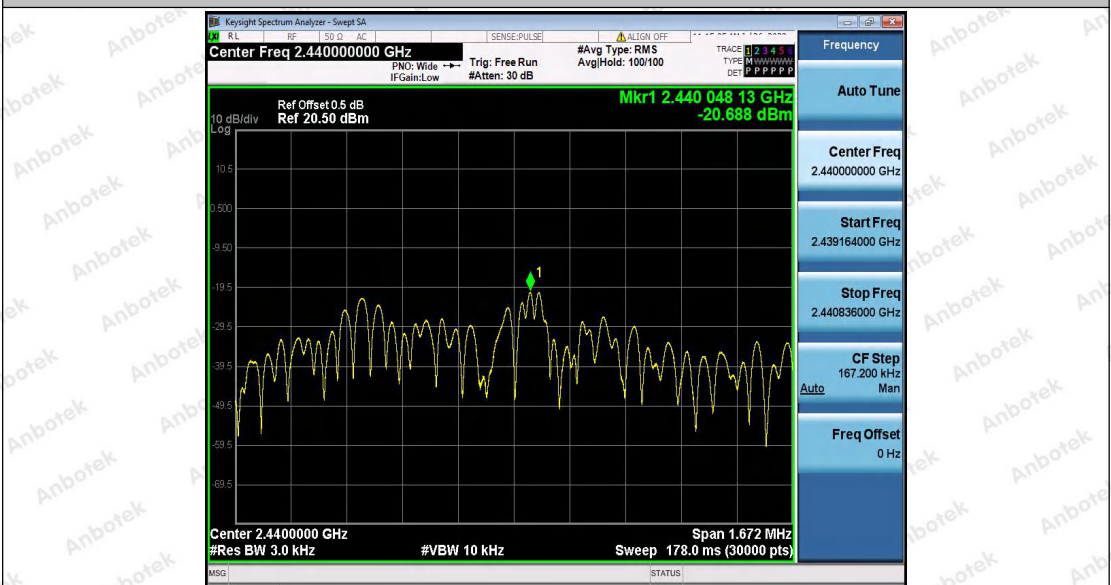




BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440



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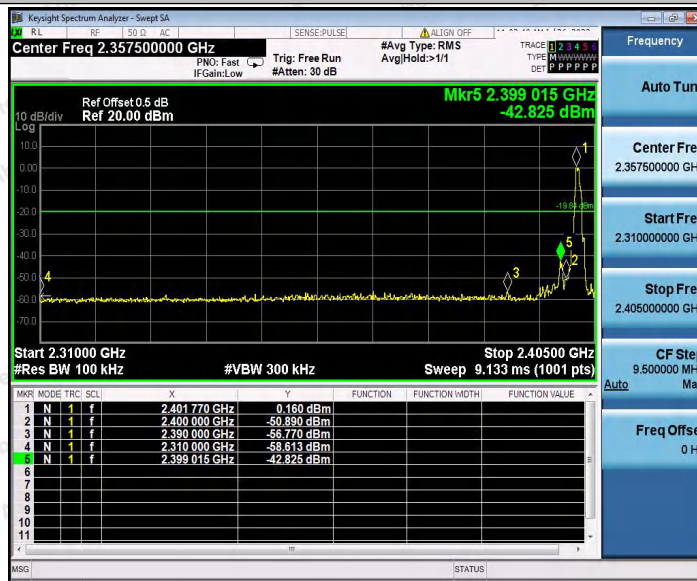
## Appendix E: Band edge measurements

### Test Result

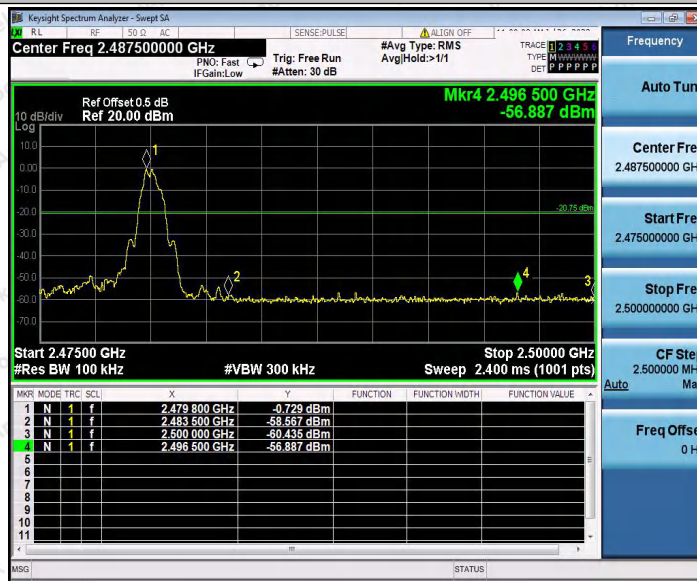
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.16	-42.83	≤-19.84	PASS
		High	2480	-0.75	-56.89	≤-20.75	PASS
BLE_2M	Ant1	Low	2402	-0.61	-33.14	≤-20.61	PASS
		High	2480	-0.76	-57.39	≤-20.76	PASS

## Test Graphs

BLE\_1M\_Ant1\_Low\_2402

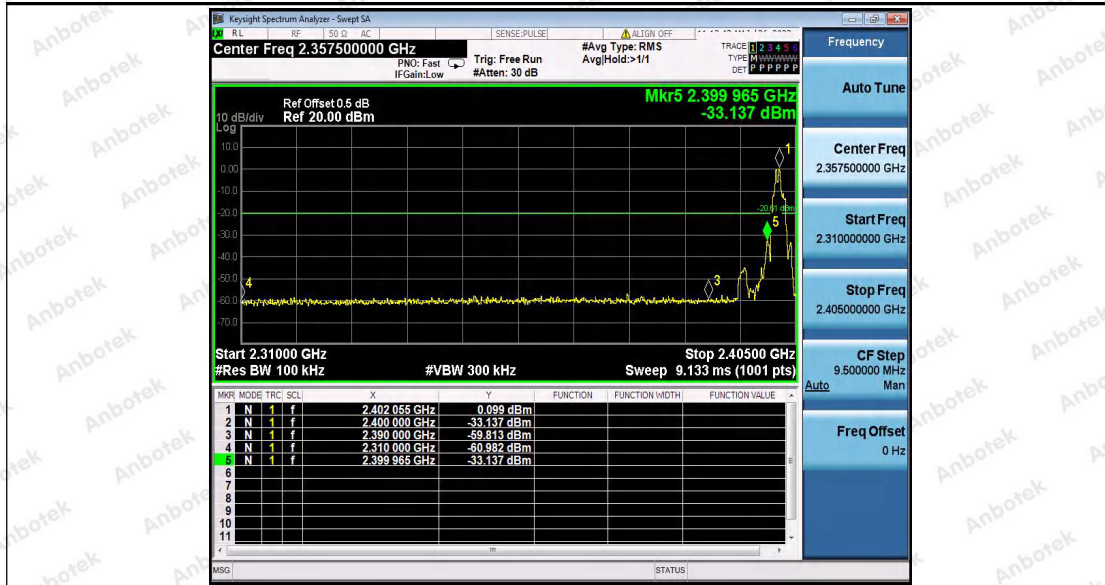


BLE\_1M\_Ant1\_High\_2480



BLE\_2M\_Ant1\_Low\_2402





## BLE\_2M\_Ant1\_High\_2480



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## Appendix F: Conducted Spurious Emission

### Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-0.06	-0.06	---	PASS
			30~1000	-0.06	-70.06	≤-20.06	PASS
			1000~265 00	-0.06	-40.01	≤-20.06	PASS
		2440	Reference	-0.02	-0.02	---	PASS
			30~1000	-0.02	-69.69	≤-20.02	PASS
			1000~265 00	-0.02	-39.03	≤-20.02	PASS
		2480	Reference	-0.89	-0.89	---	PASS
			30~1000	-0.89	-69.97	≤-20.89	PASS
			1000~265 00	-0.89	-44.04	≤-20.89	PASS
BLE_2M	Ant1	2402	Reference	-0.13	-0.13	---	PASS
			30~1000	-0.13	-69.68	≤-20.13	PASS
			1000~265 00	-0.13	-39.56	≤-20.13	PASS
		2440	Reference	-0.35	-0.35	---	PASS
			30~1000	-0.35	-69.54	≤-20.35	PASS
			1000~265 00	-0.35	-38.68	≤-20.35	PASS
		2480	Reference	-1.44	-1.44	---	PASS
			30~1000	-1.44	-69.36	≤-21.44	PASS
			1000~265 00	-1.44	-41.41	≤-21.44	PASS

## Test Graphs



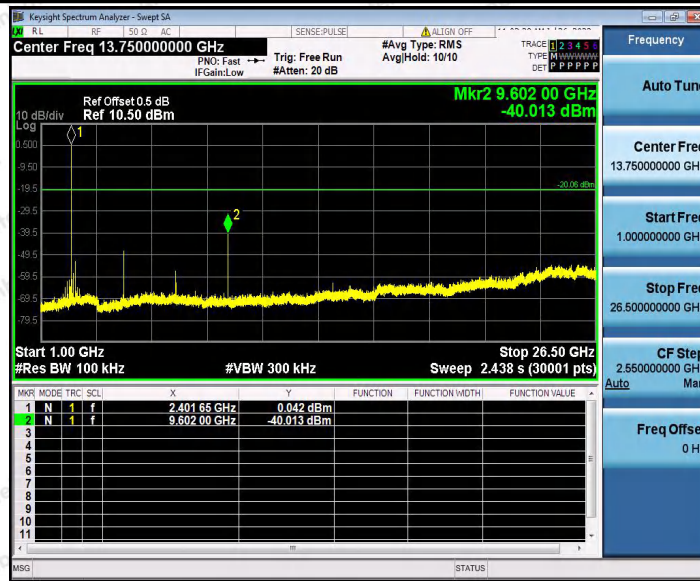
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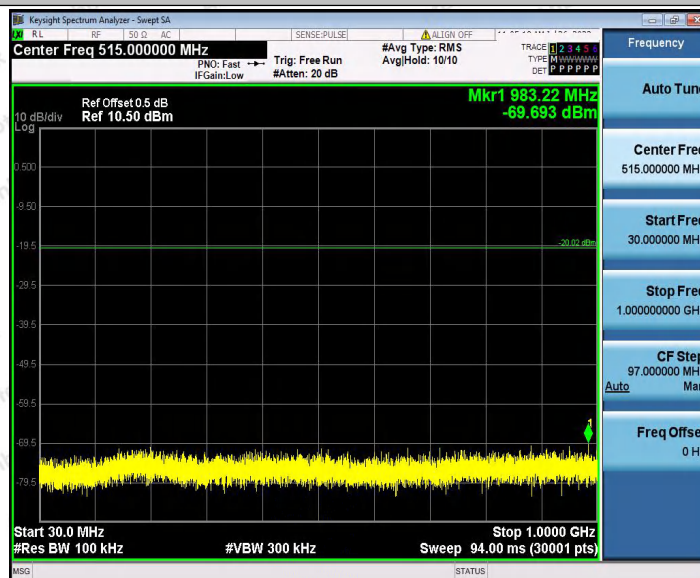




BLE\_1M\_Ant1\_2440\_0~Reference



BLE\_1M\_Ant1\_2440\_30~1000



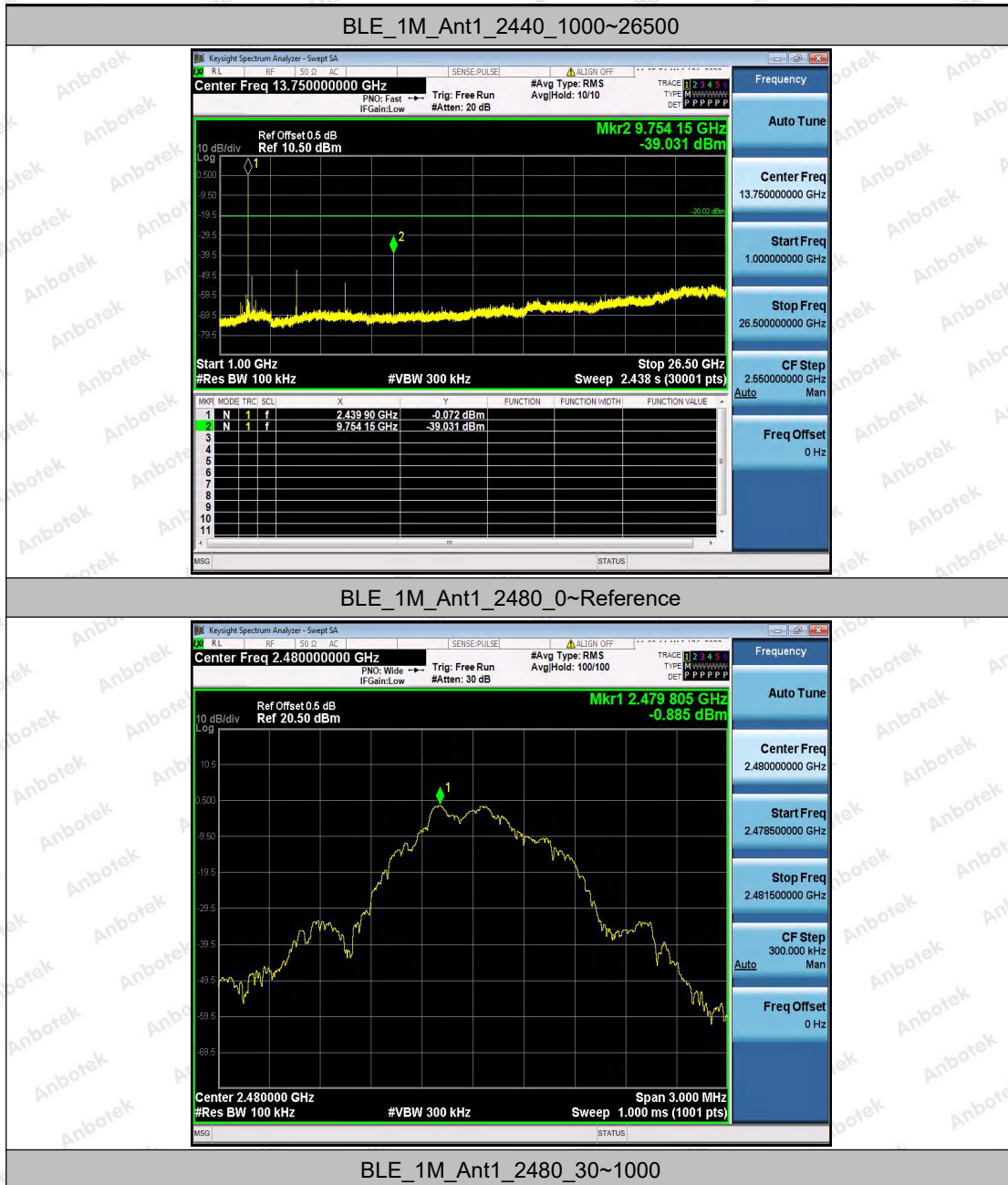
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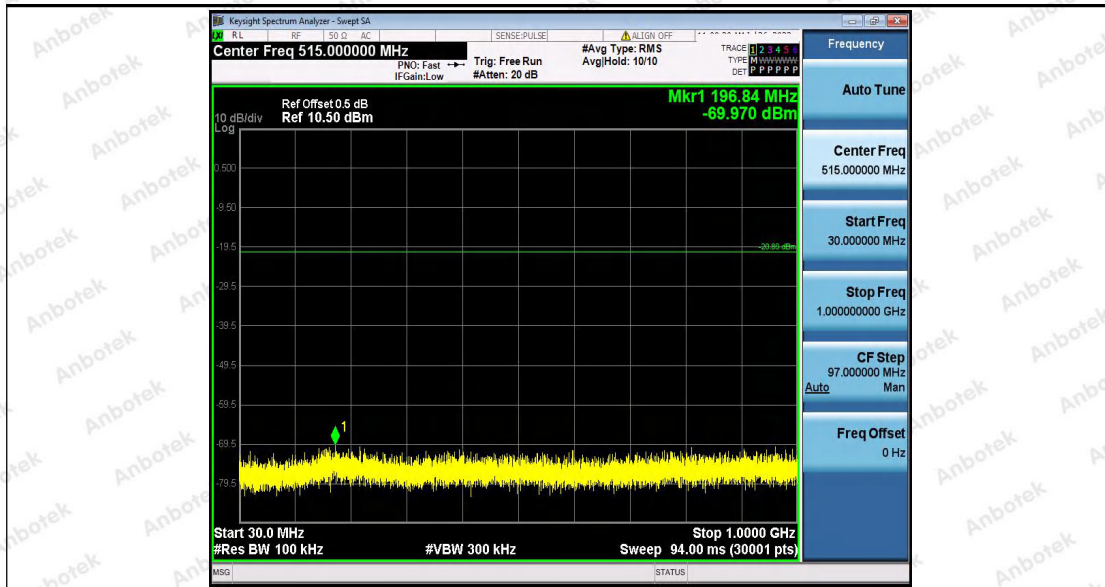


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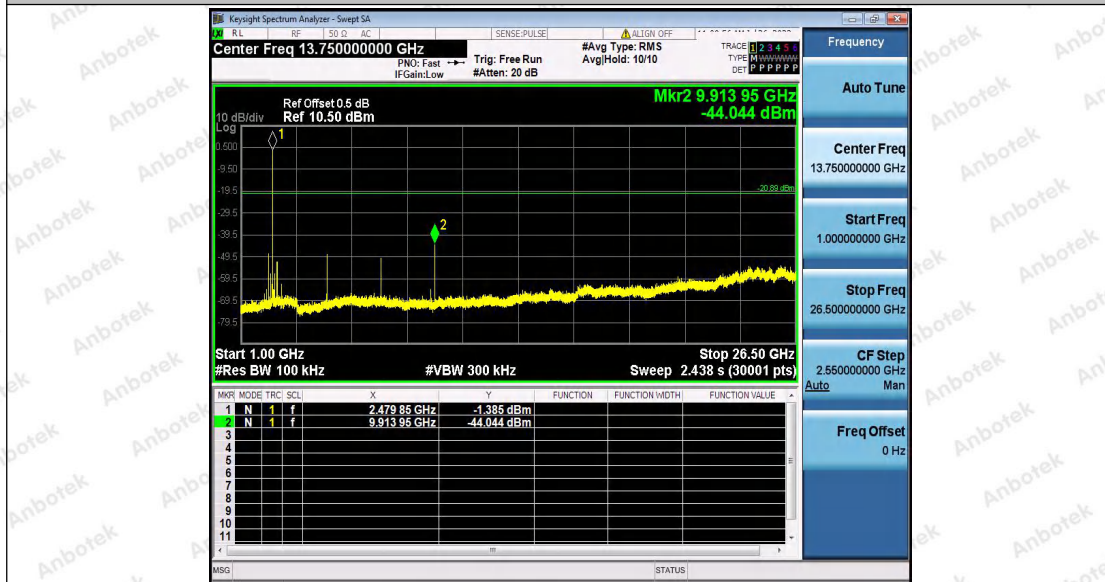
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BLE\_1M\_Ant1\_2480\_1000~26500



BLE\_2M\_Ant1\_2402\_0~Reference

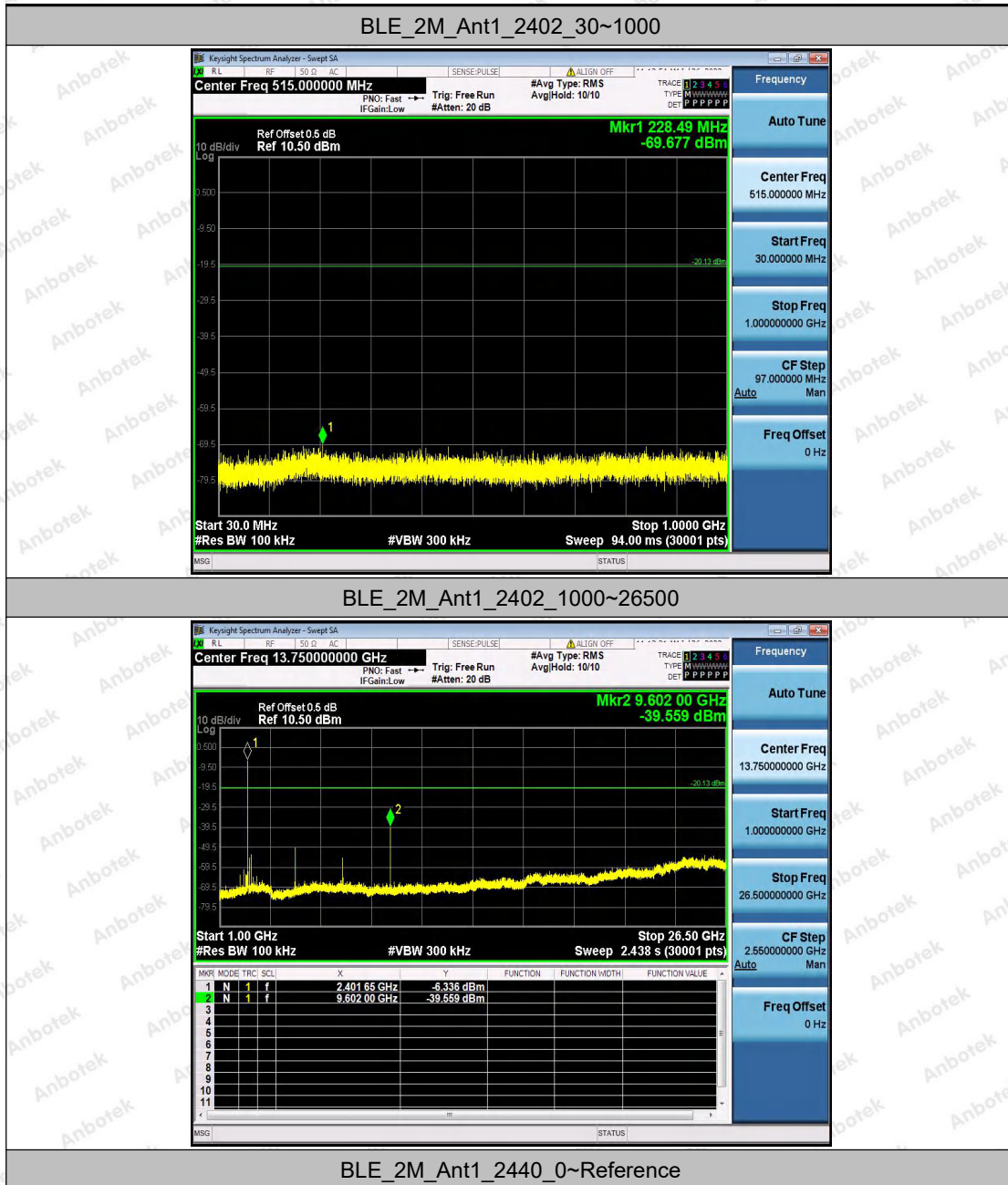


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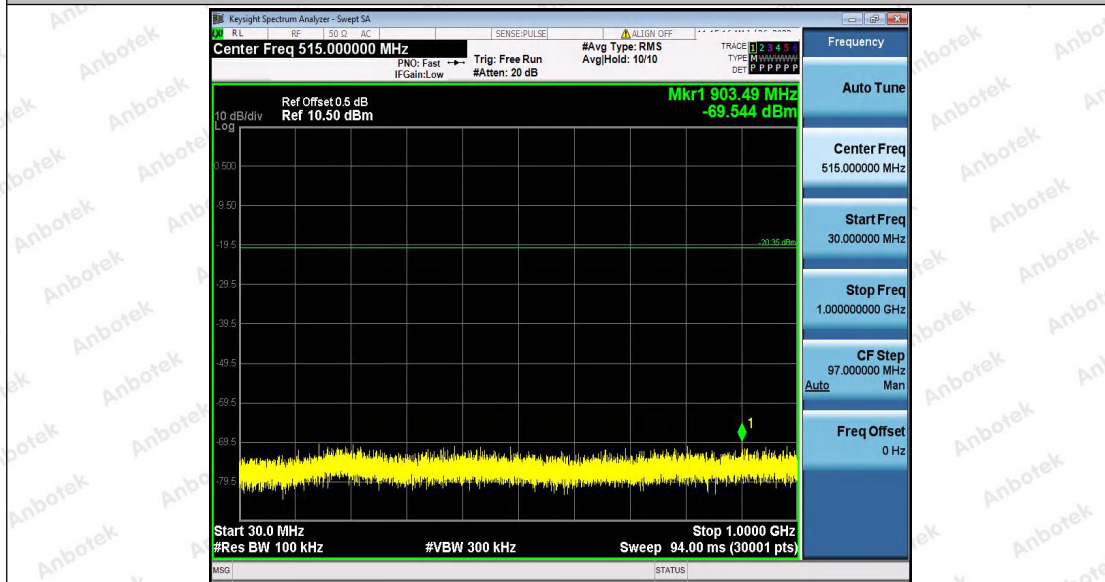
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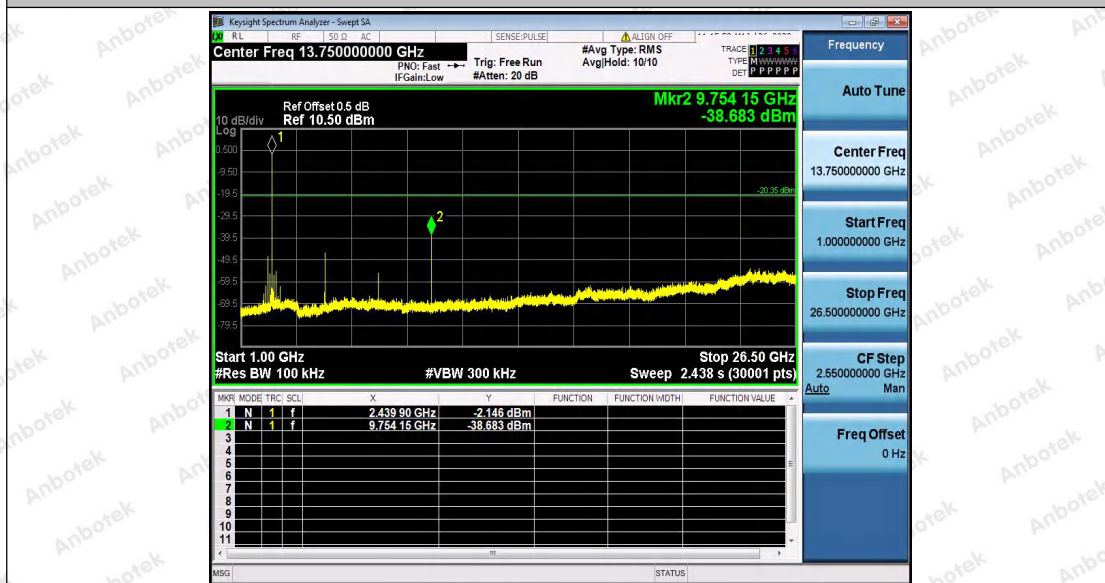




BLE\_2M\_Ant1\_2440\_30~1000



BLE\_2M\_Ant1\_2440\_1000~26500



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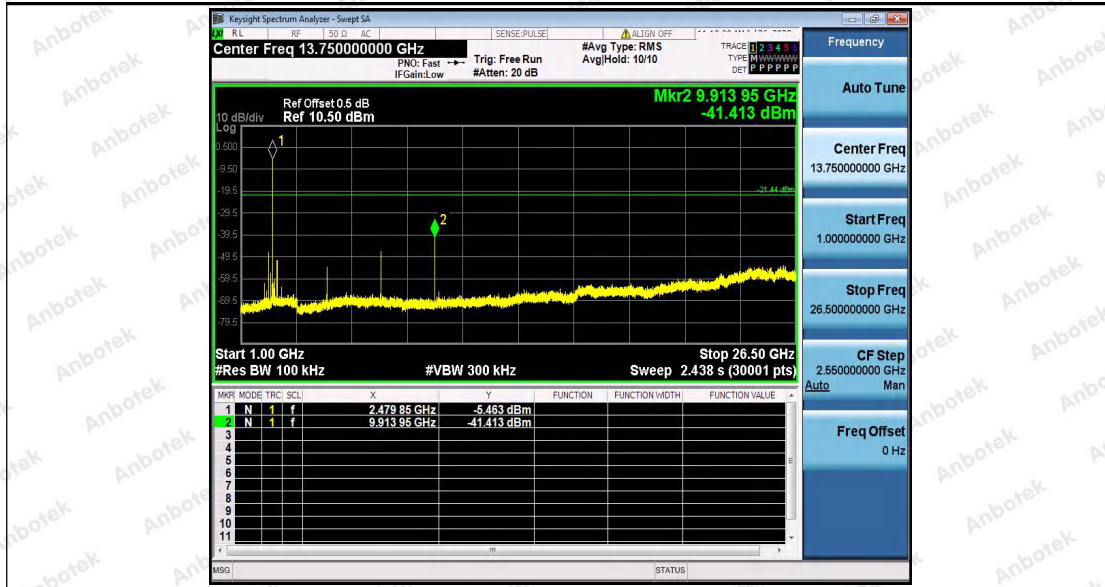
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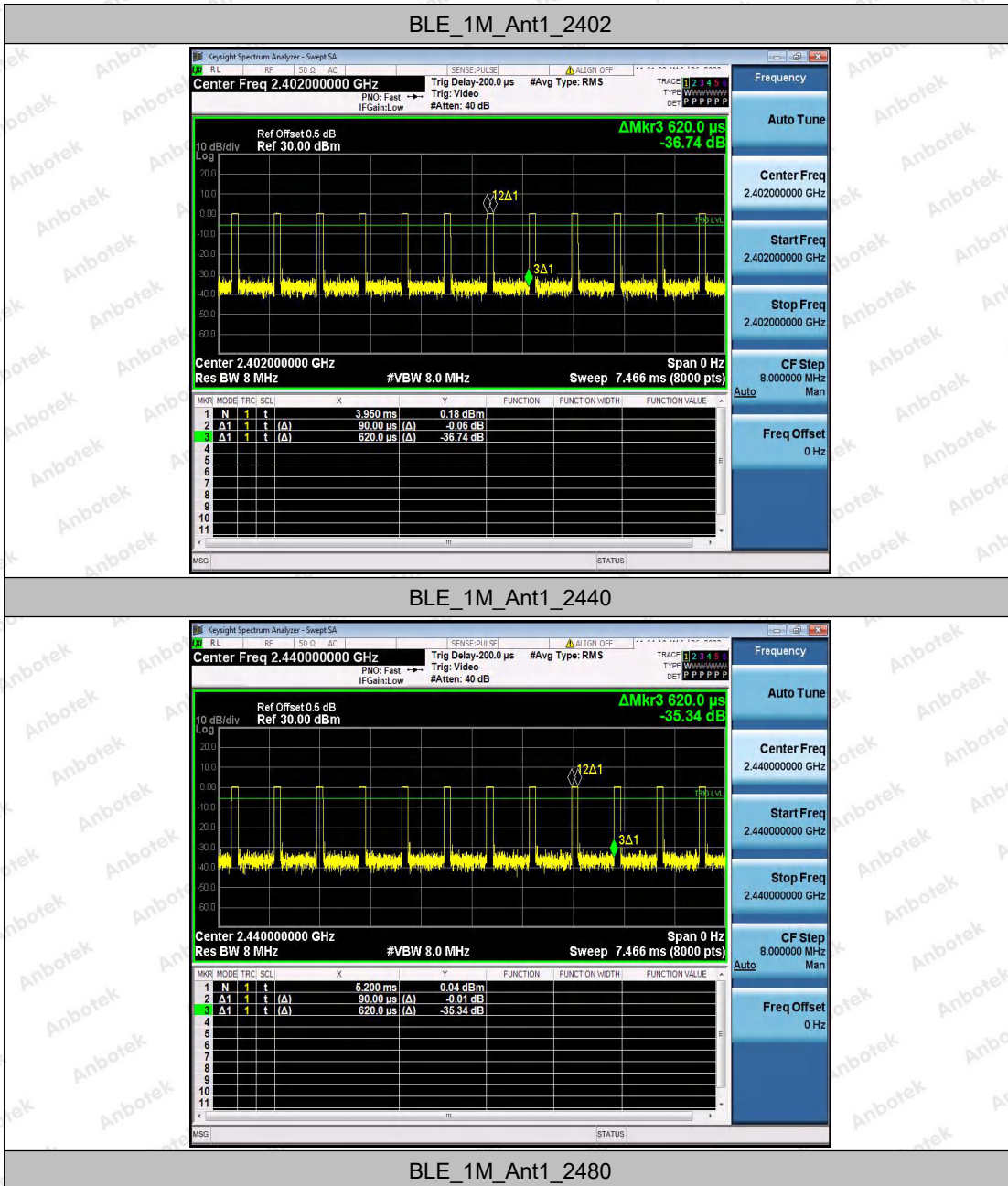


## Appendix G: Duty Cycle

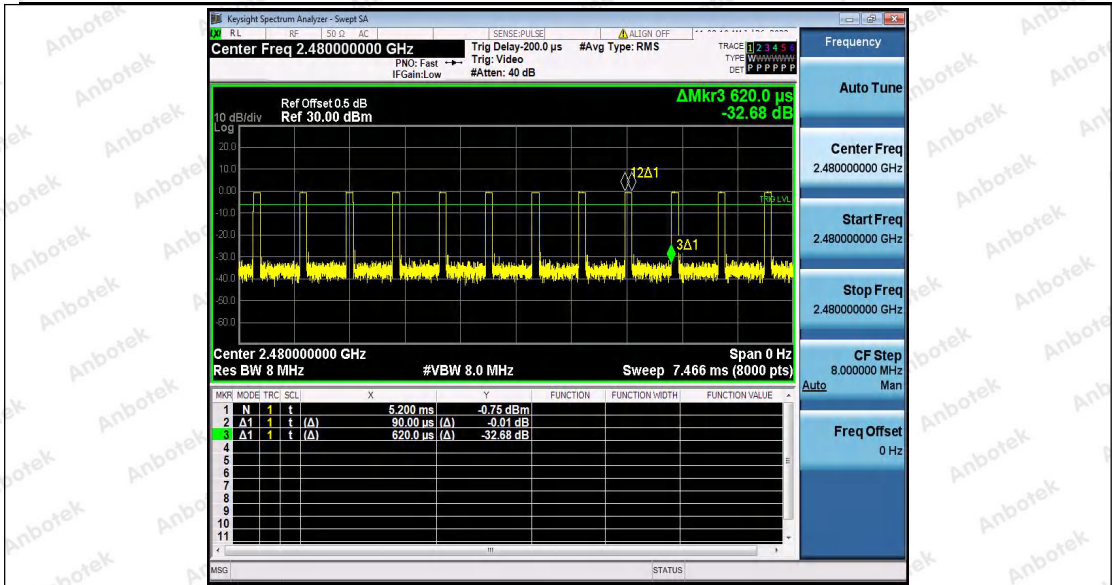
### Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.09	0.62	0.145 2	14.52	8.38	---	PASS
		2440	0.09	0.62	0.145 2	14.52	8.38	---	PASS
		2480	0.09	0.62	0.145 2	14.52	8.38	---	PASS
BLE_2M	Ant1	2402	0.06	0.62	0.096 8	9.68	10.14	---	PASS
		2440	0.06	0.62	0.096 8	9.68	10.14	---	PASS
		2480	0.06	0.62	0.096 8	9.68	10.14	---	PASS

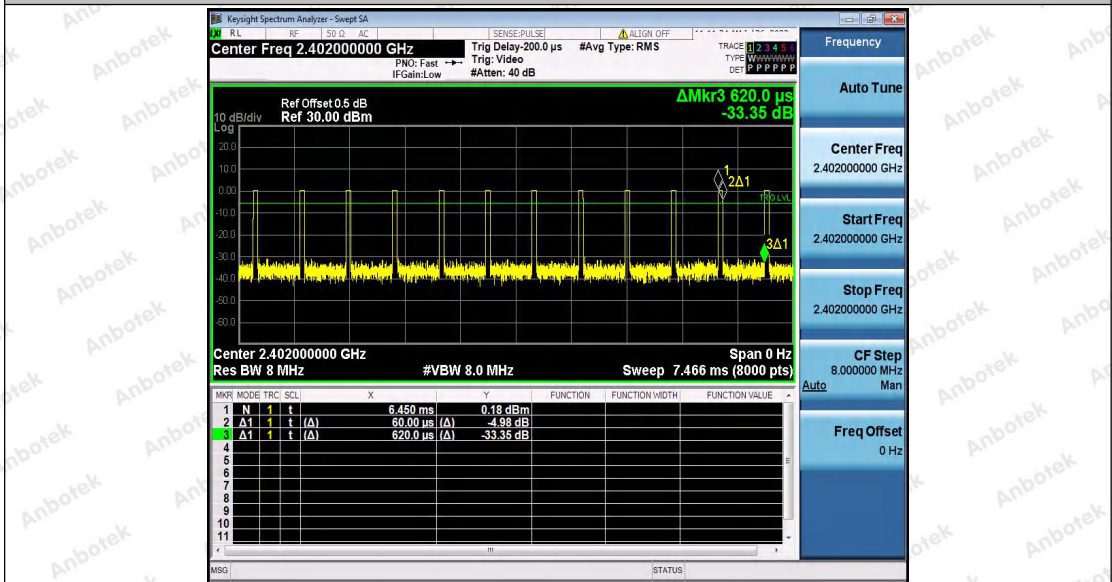
## Test Graphs



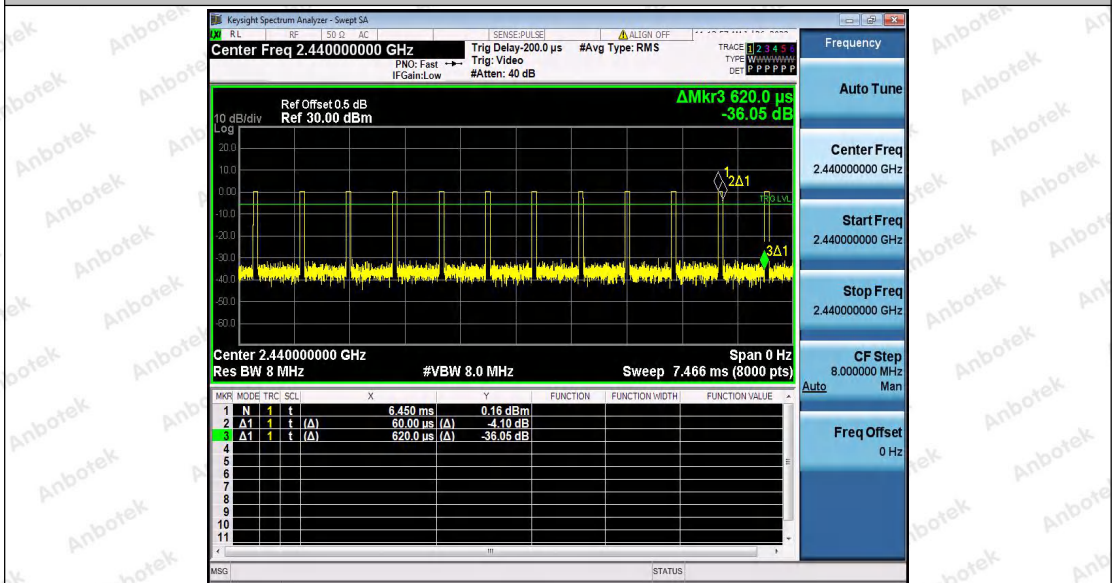




BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440

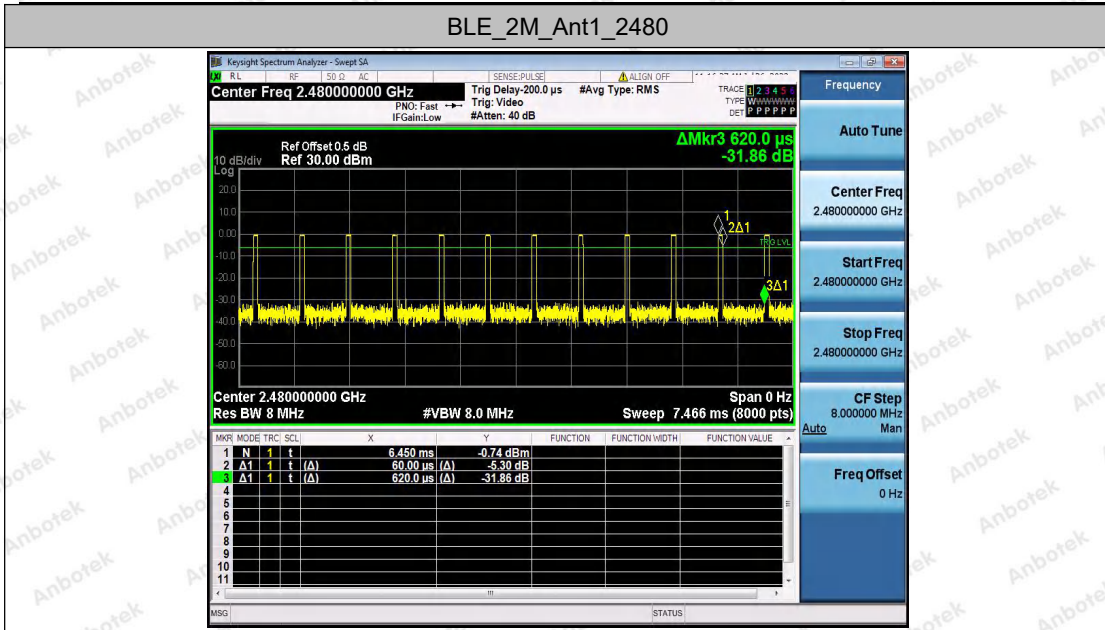


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