



## Appendix B

### RF Test Data for BT LE (Conducted Measurement)

Product Name: Smartphone

Test Model: NOTE 50

#### Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu
Supervised by:	Ling Zhu





## B.1 -6dB Bandwidth

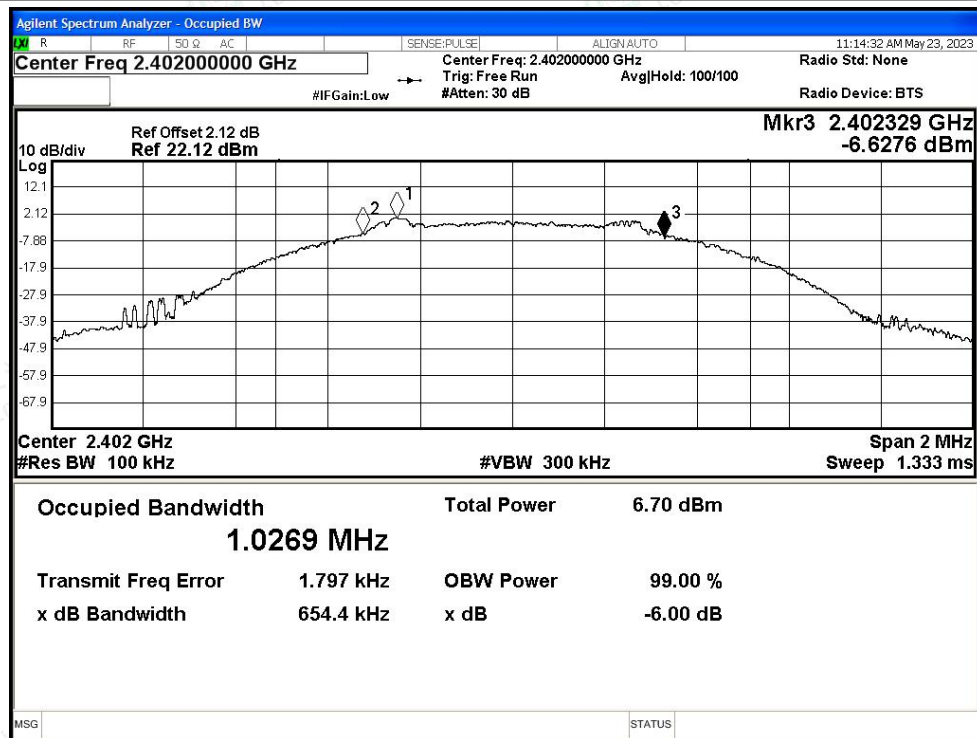
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.654	$\geq 0.5$	Pass
NVNT	BLE 1M	2440	Ant1	0.658	$\geq 0.5$	Pass
NVNT	BLE 1M	2480	Ant1	0.655	$\geq 0.5$	Pass



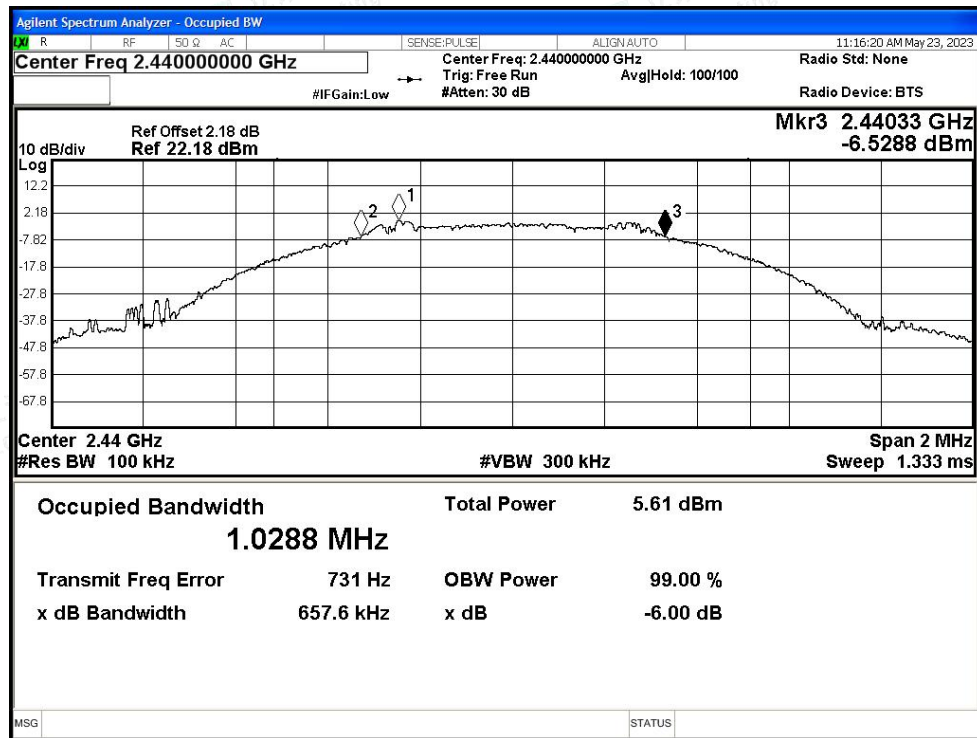


## Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1

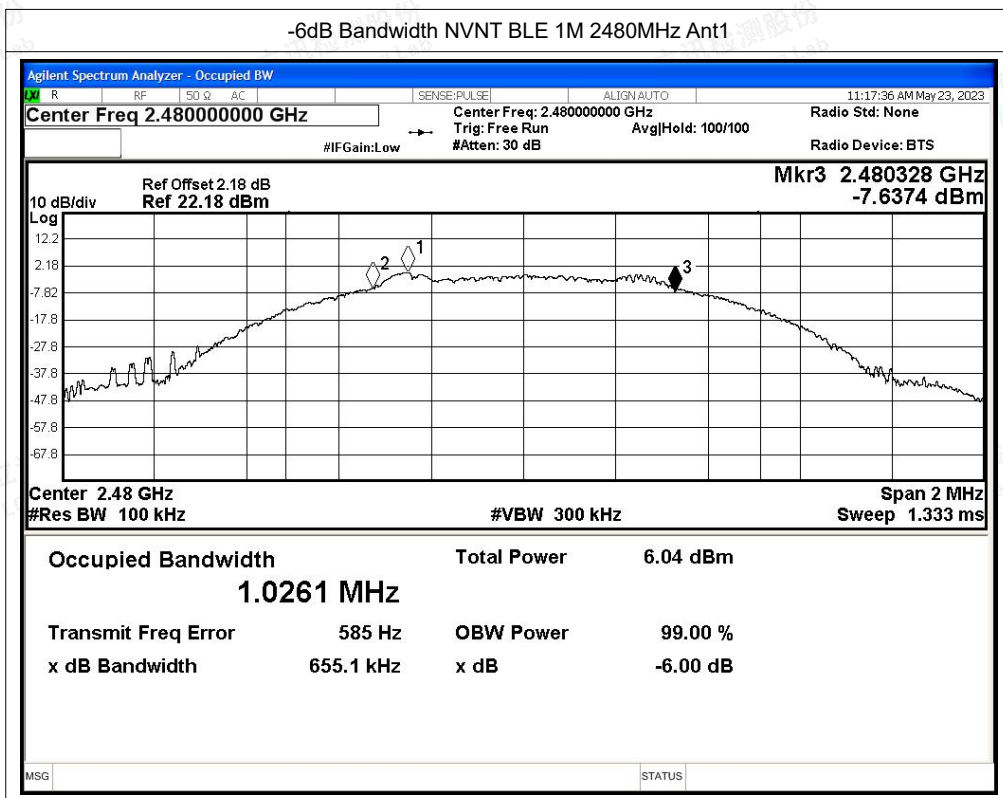


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## B.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	1.03	30	Pass
NVNT	BLE 1M	2440	Ant1	0.02	30	Pass
NVNT	BLE 1M	2480	Ant1	0.32	30	Pass

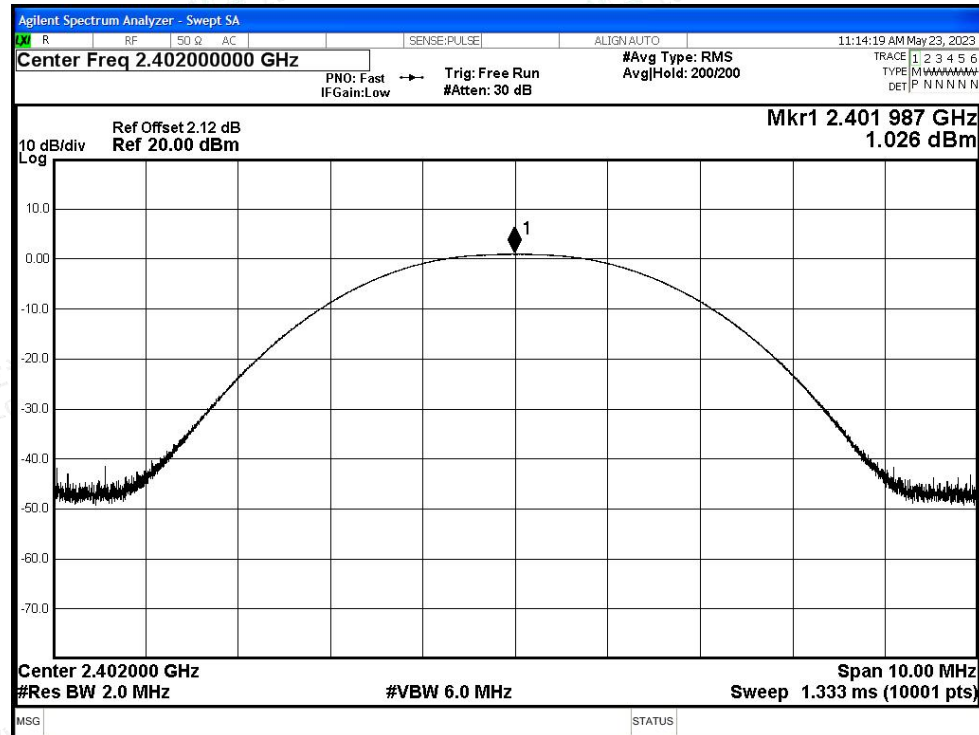


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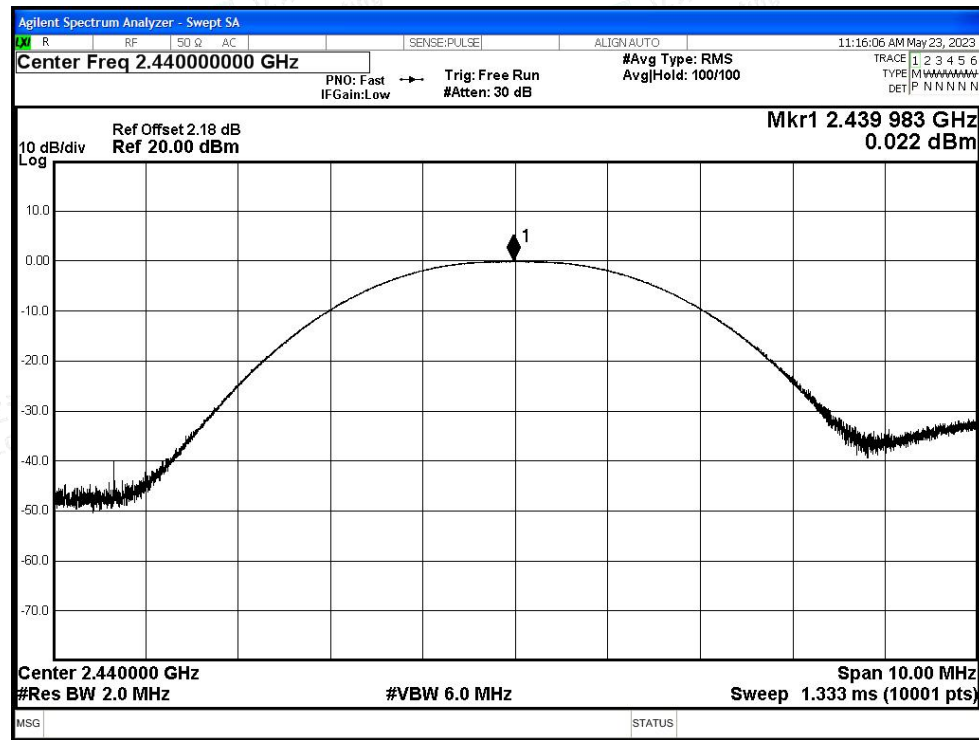


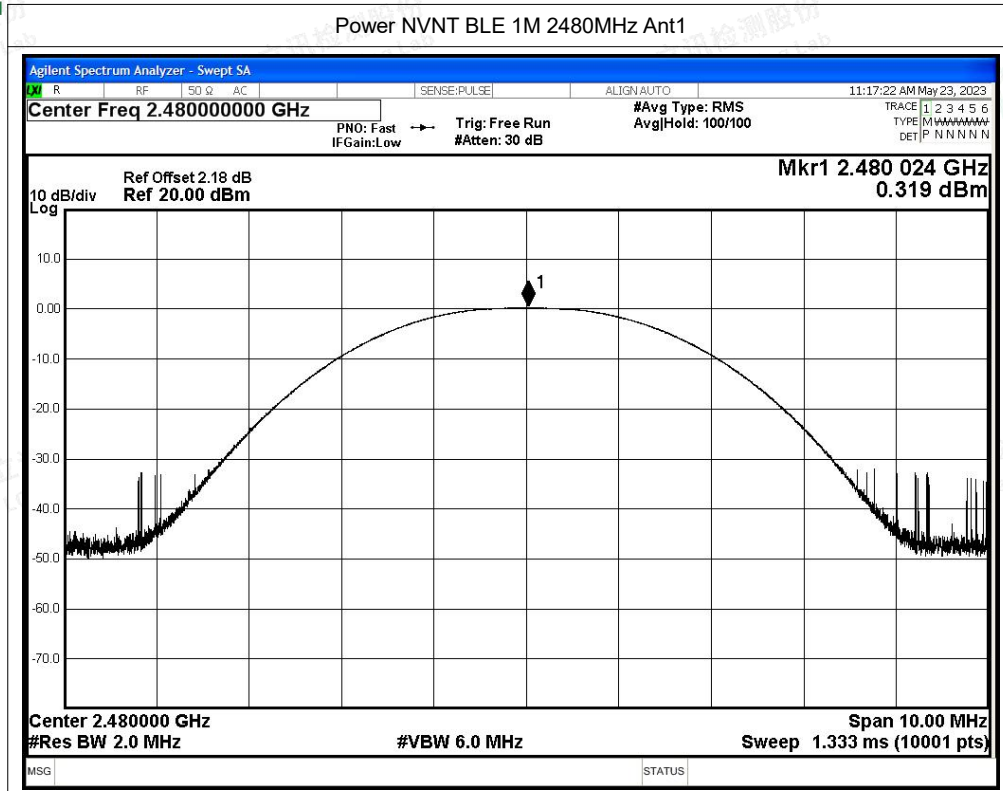
## Test Graphs

## Power NVNT BLE 1M 2402MHz Ant1



## Power NVNT BLE 1M 2440MHz Ant1









### B.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-15.44	8	Pass
NVNT	BLE 1M	2440	Ant1	-16.55	8	Pass
NVNT	BLE 1M	2480	Ant1	-16.15	8	Pass



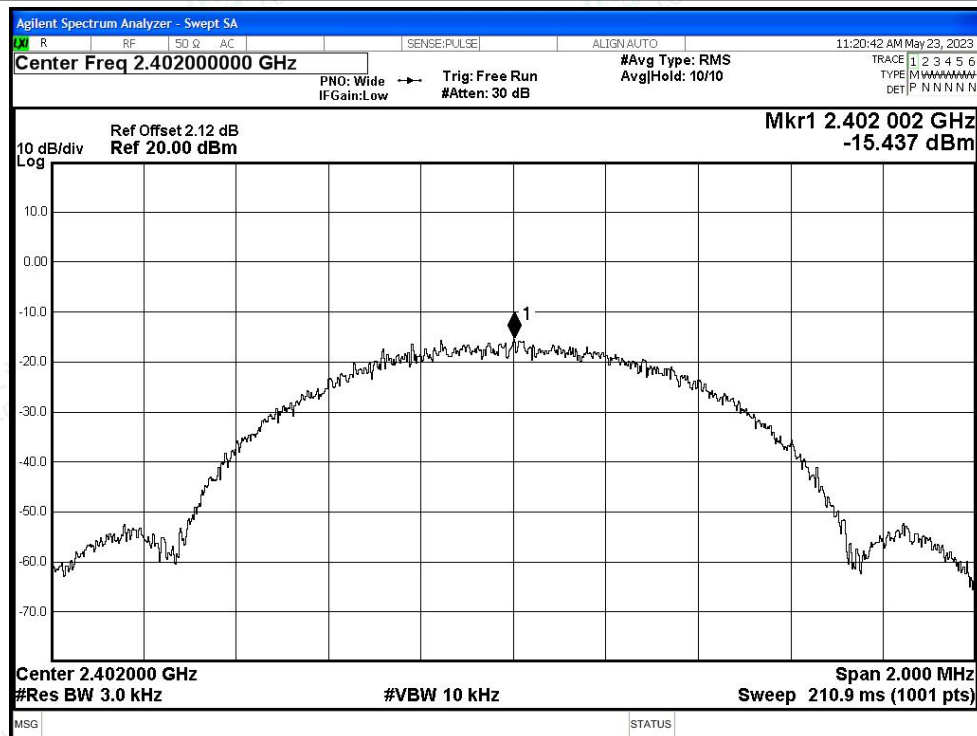
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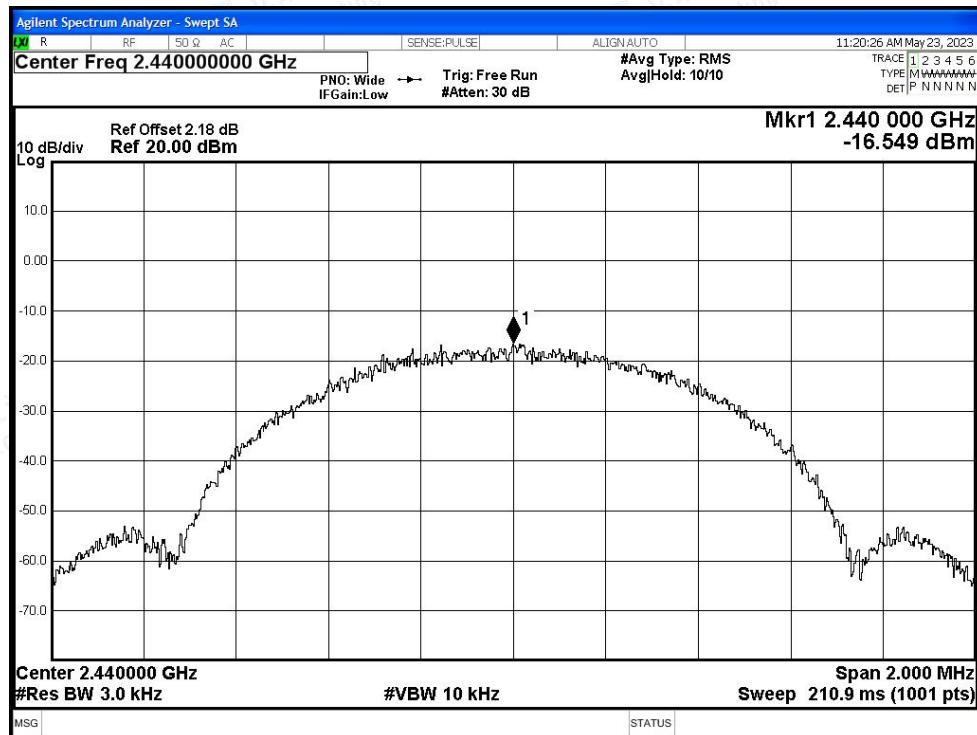


## Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1

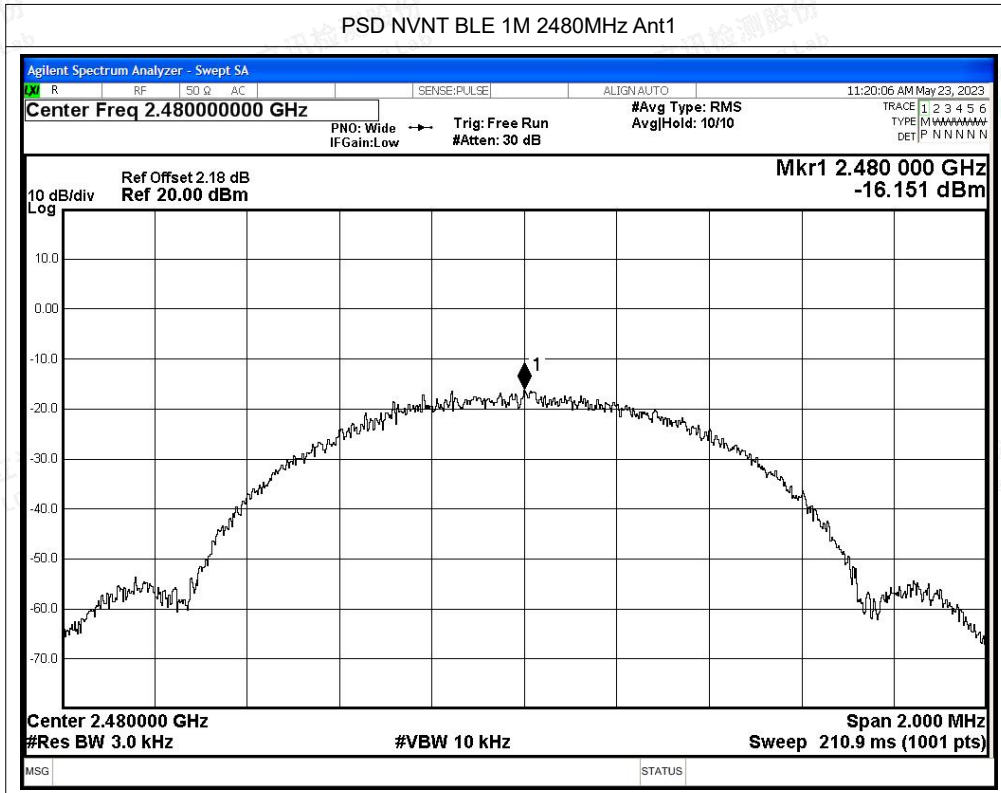


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## B.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-57.64	-20	Pass
NVNT	BLE 1M	2480	Ant1	-54.76	-20	Pass

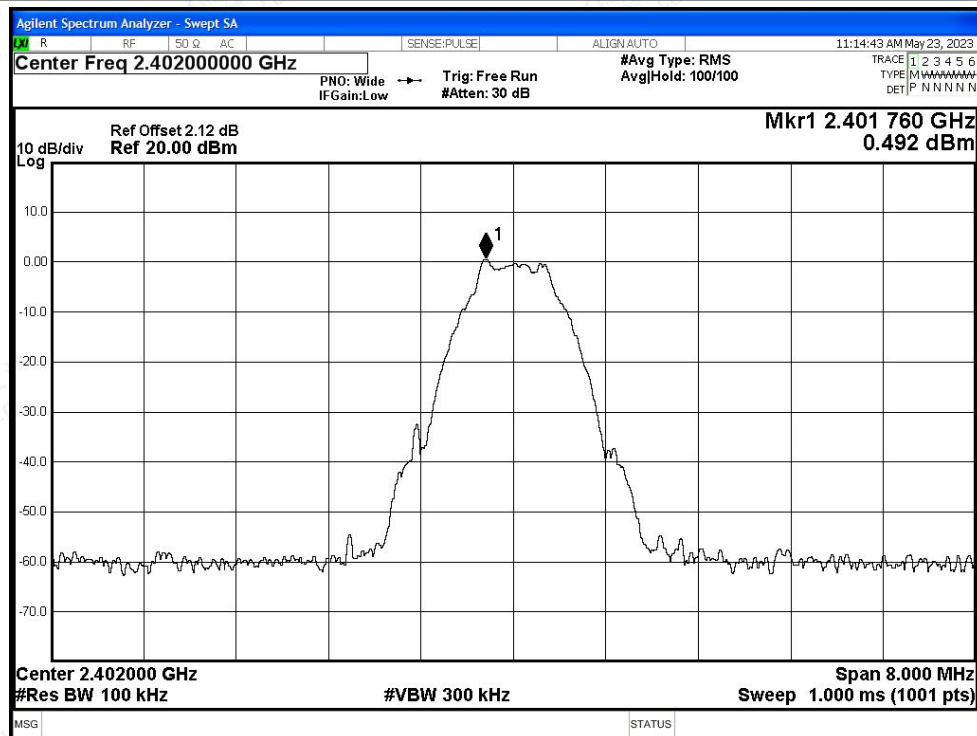


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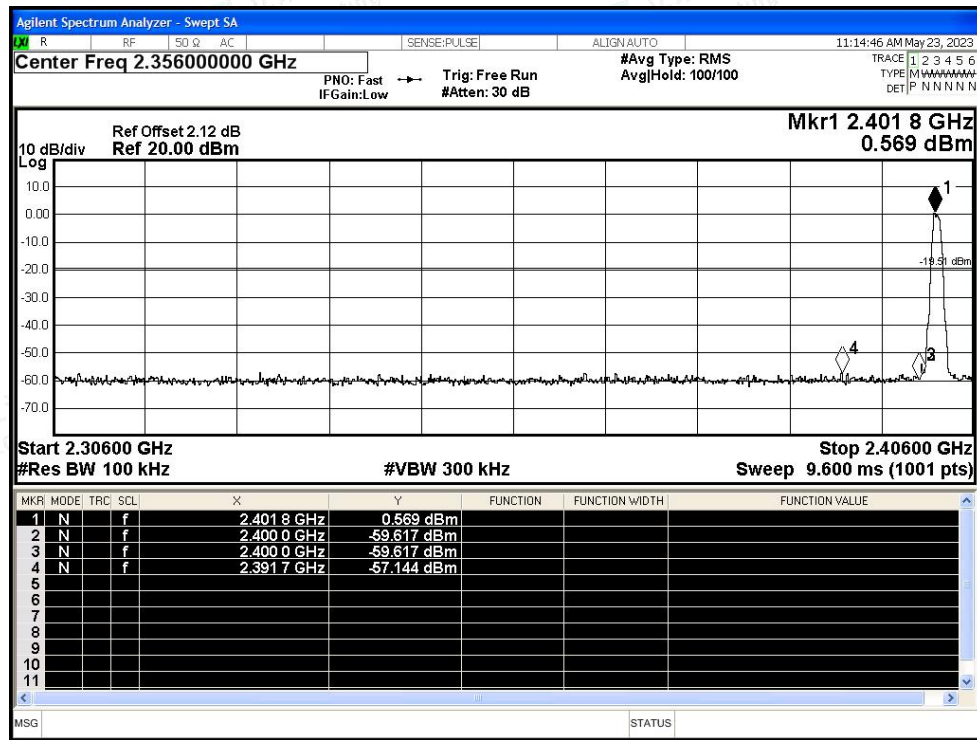


## Test Graphs

## Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



## Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



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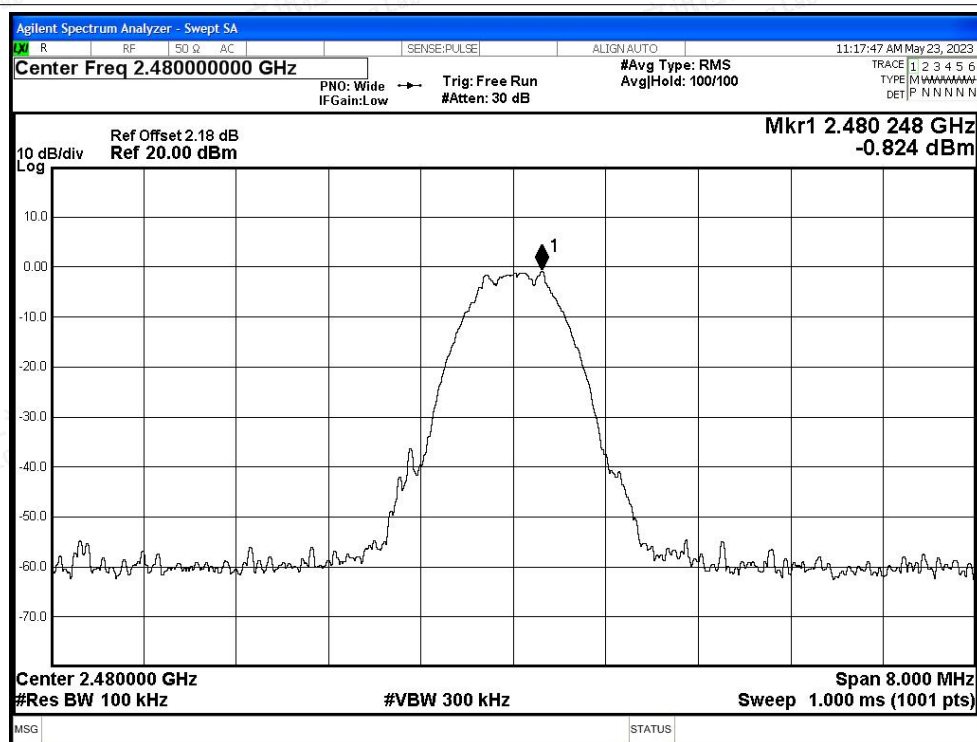
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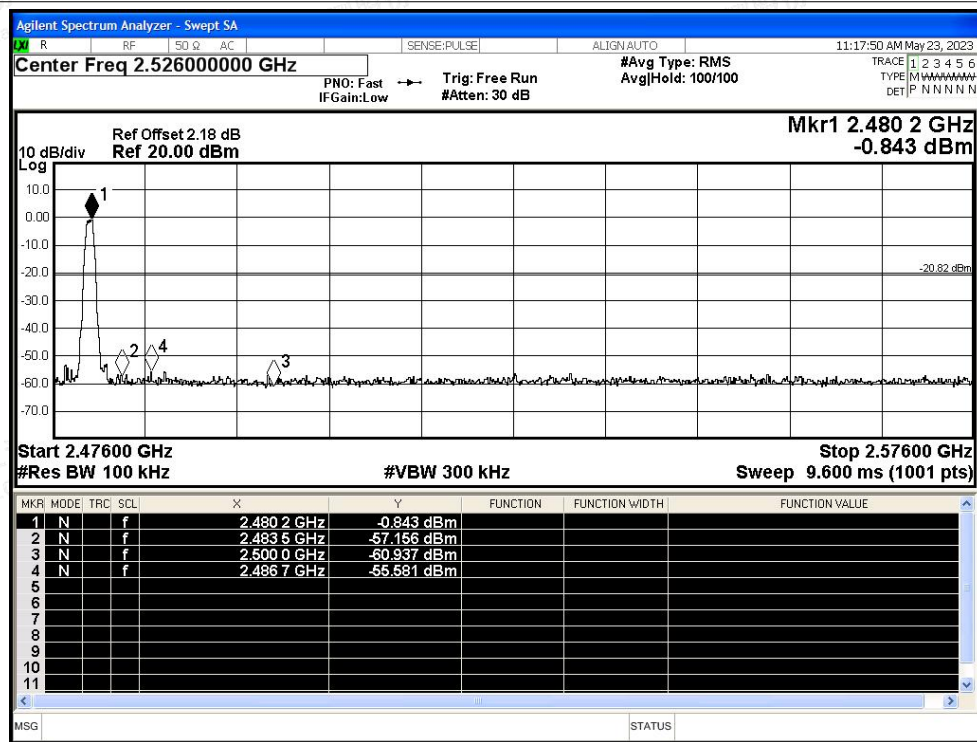
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## Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



## Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



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## B.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-55.85	-20	Pass
NVNT	BLE 1M	2440	Ant1	-52.13	-20	Pass
NVNT	BLE 1M	2480	Ant1	-40.23	-20	Pass



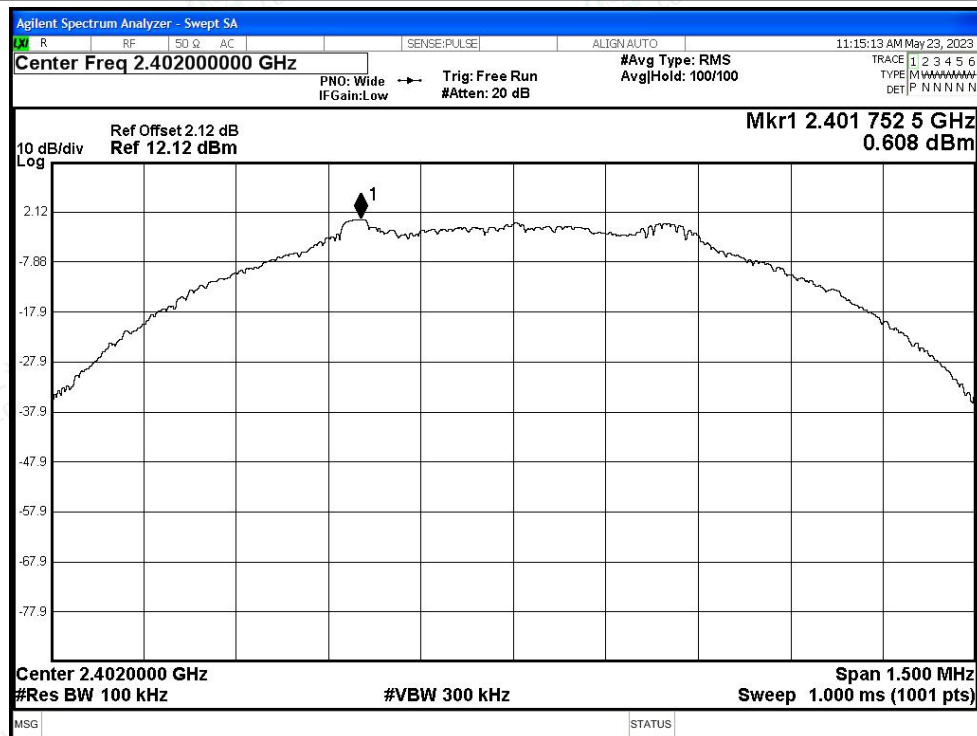
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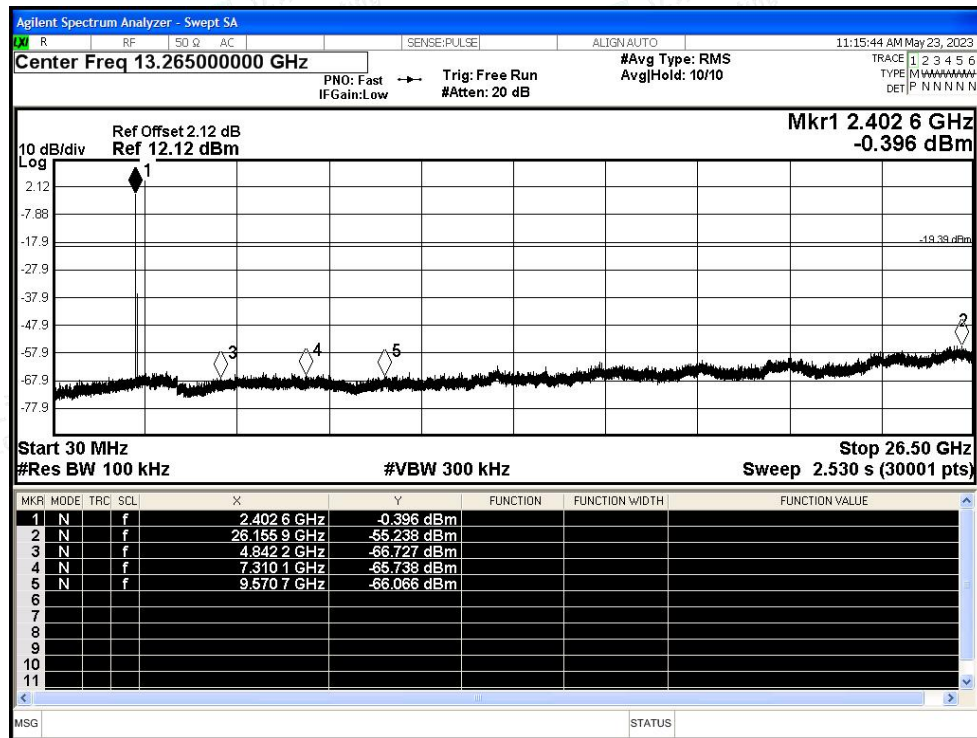


## Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



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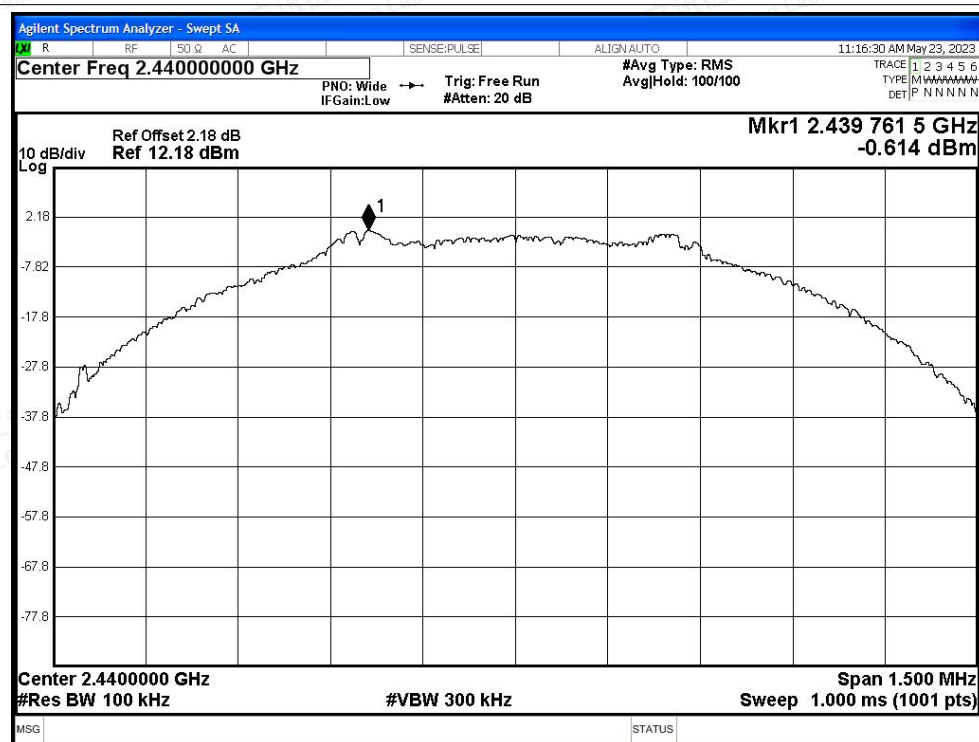
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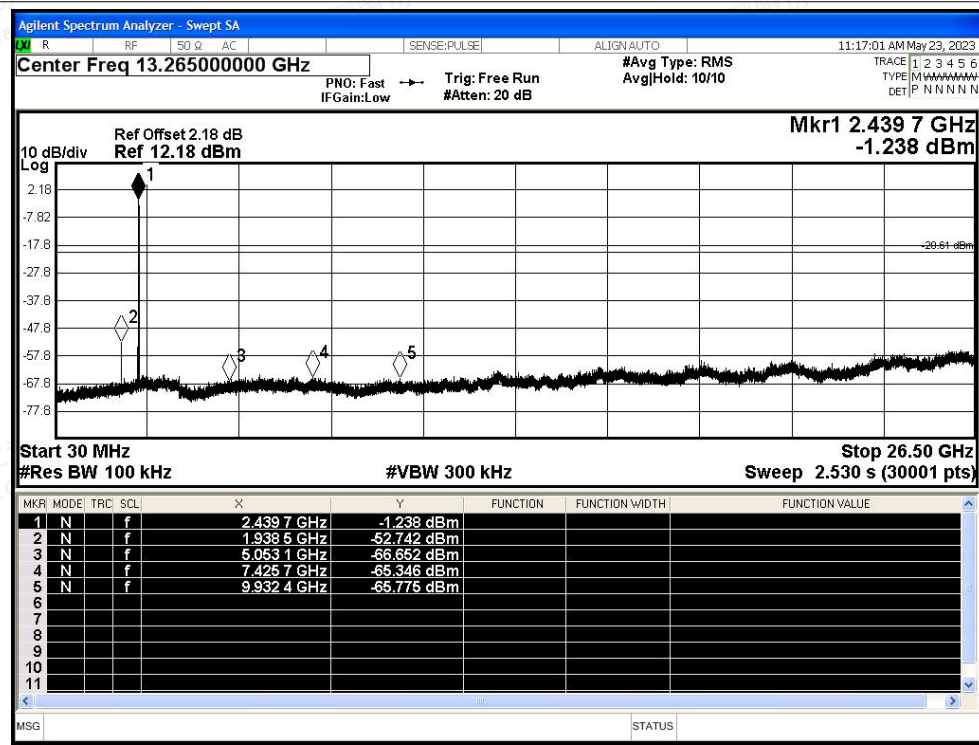




## Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



## Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



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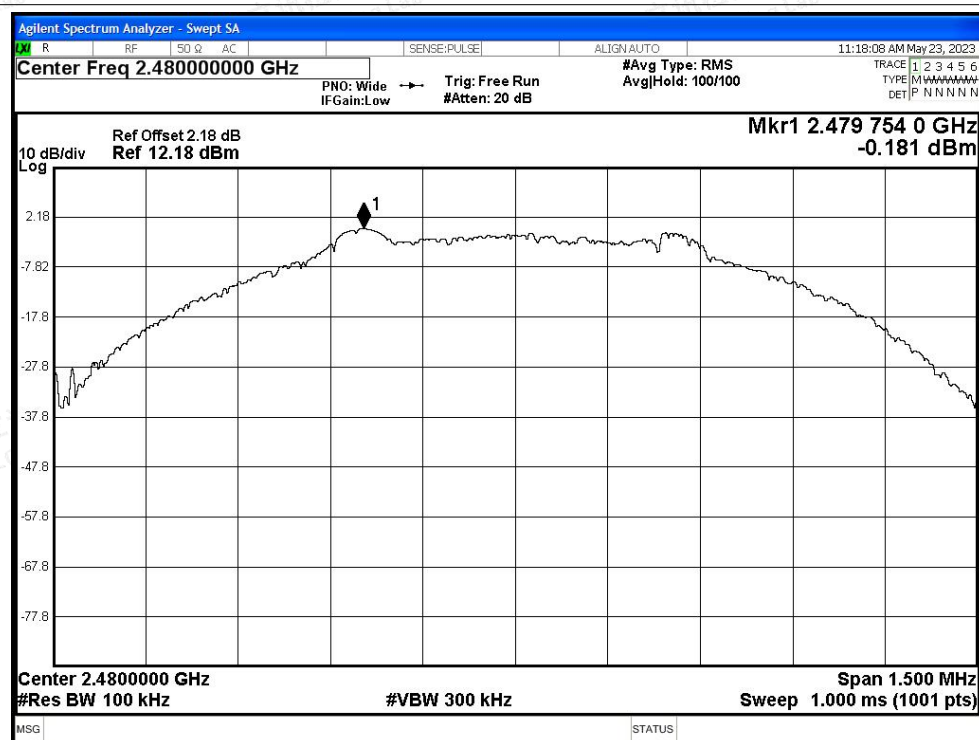
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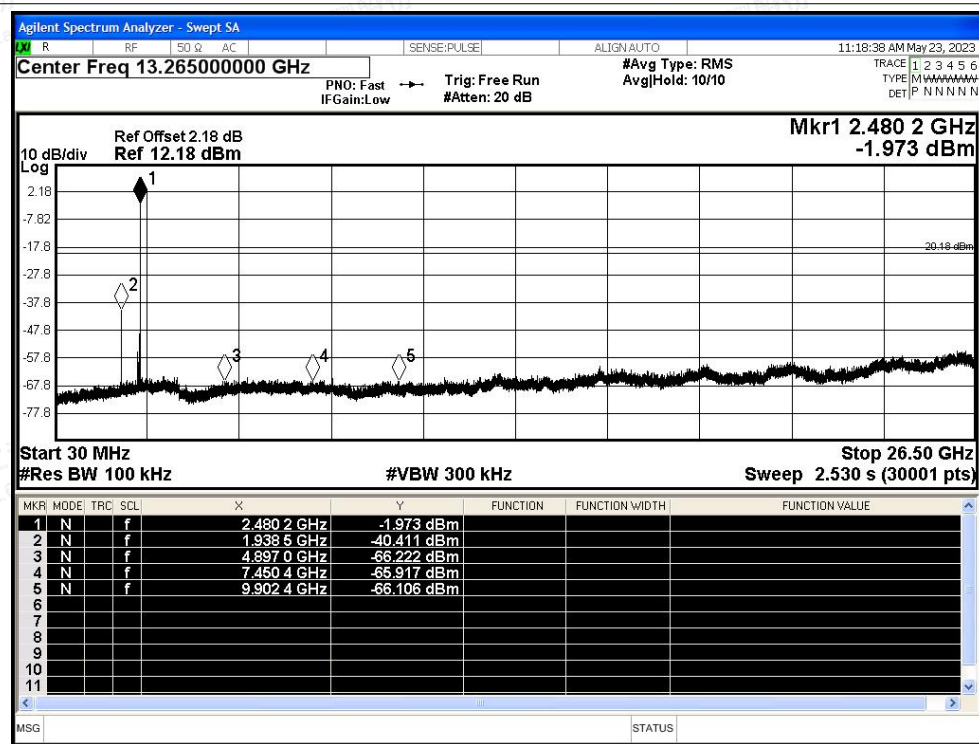
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## Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



## Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



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## B.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	87.39	0.59	0.61
NVNT	BLE 1M	2440	Ant1	87.39	0.59	0.61
NVNT	BLE 1M	2480	Ant1	0	0	$\infty$

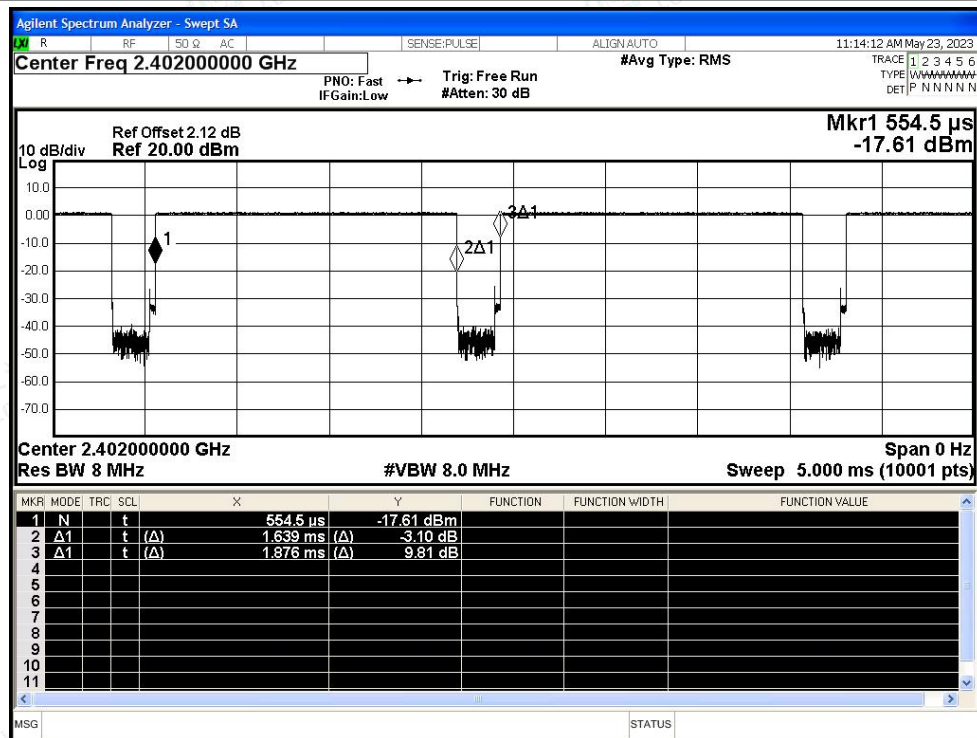


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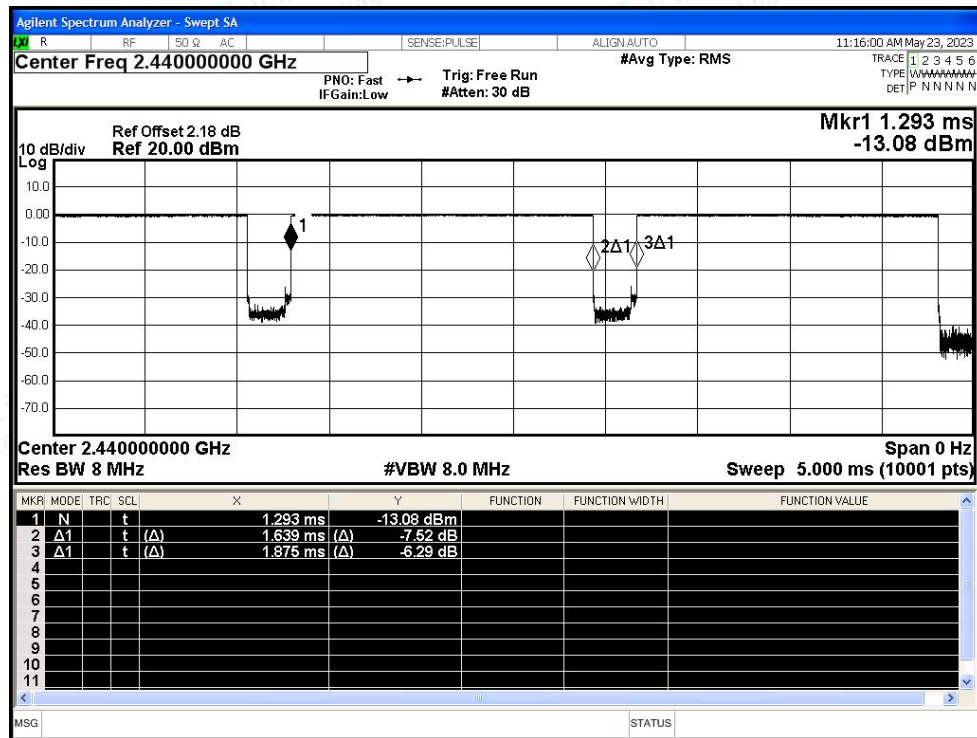


## Test Graphs

## Duty Cycle NVNT BLE 1M 2402MHz Ant1



## Duty Cycle NVNT BLE 1M 2440MHz Ant1



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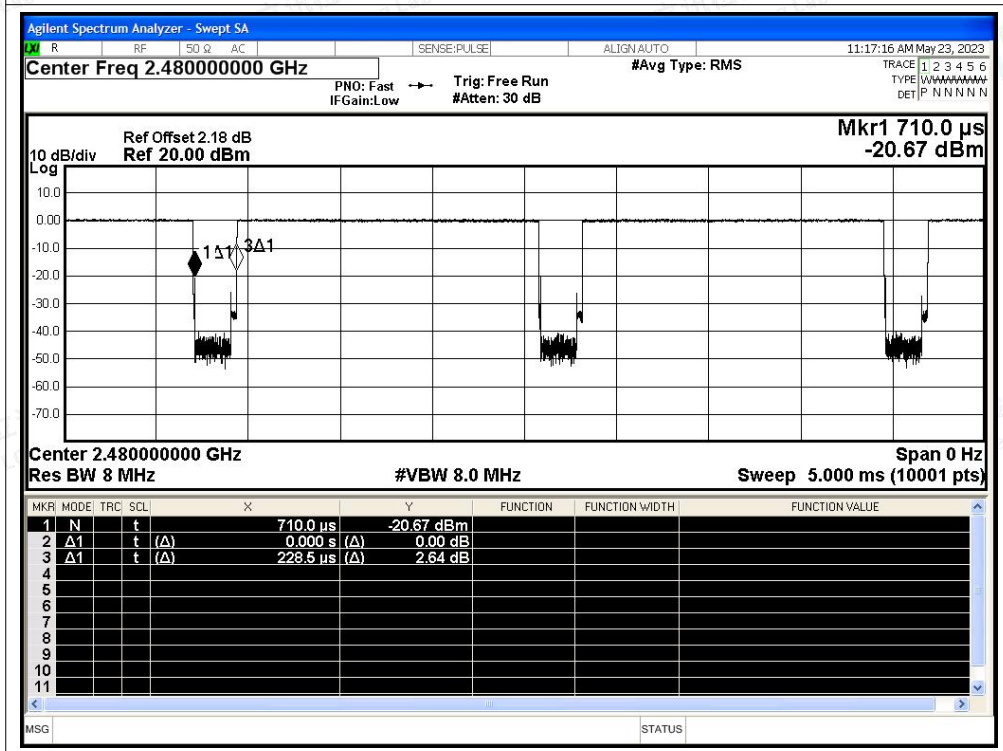
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## Duty Cycle NVNT BLE 1M 2480MHz Ant1



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## B.7 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1M	2402	Ant1	2310	-49.19	2.63	48.70	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-57.74	2.63	40.15	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2338.416	-46.88	2.63	51.01	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2389.776	-57.15	2.63	40.74	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-49.81	2.63	48.08	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-57.22	2.63	40.67	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-48.39	2.63	49.50	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-53.13	2.63	44.76	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.776	-38.18	2.63	59.71	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.512	-53.13	2.63	44.76	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-48.46	2.63	49.43	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-56.83	2.63	41.06	Average	54	Pass



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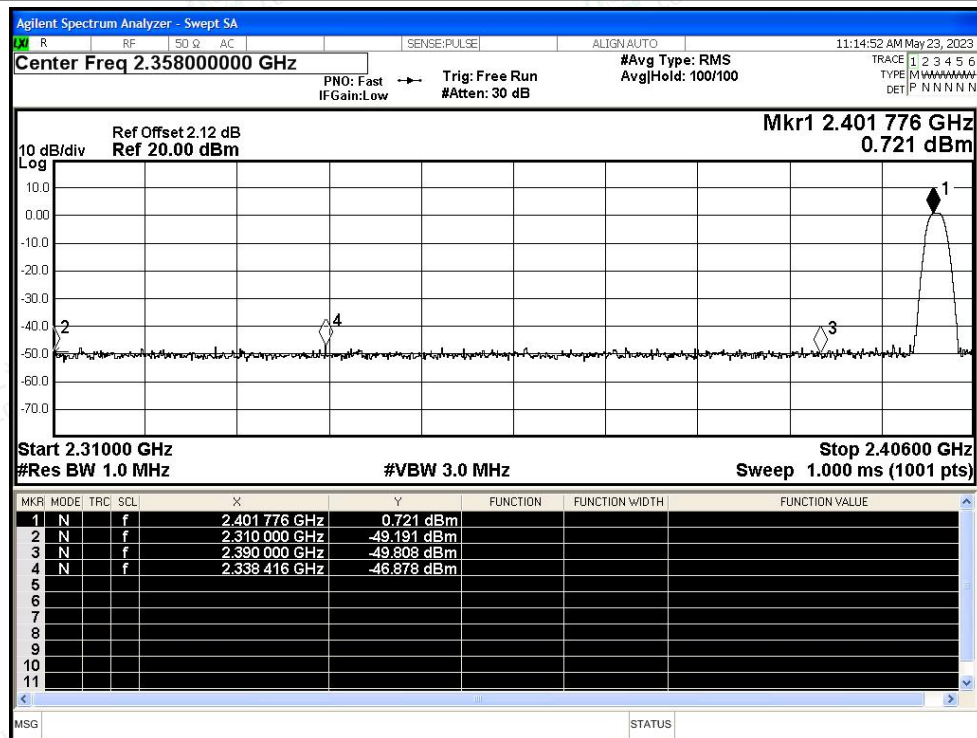
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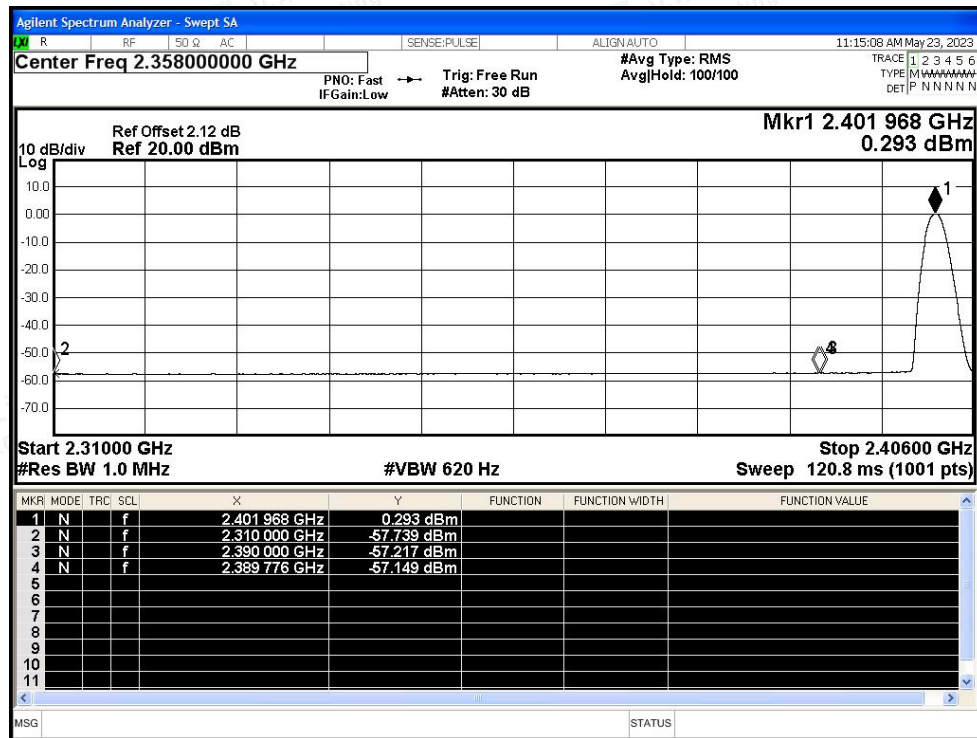


## Test Graphs

## Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



## Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



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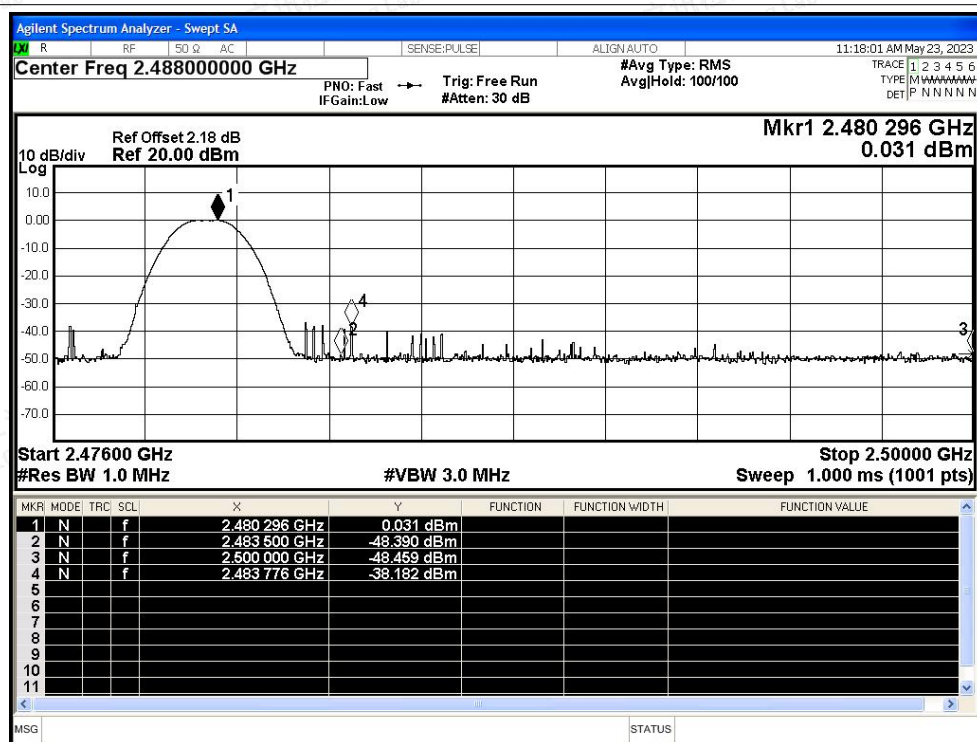
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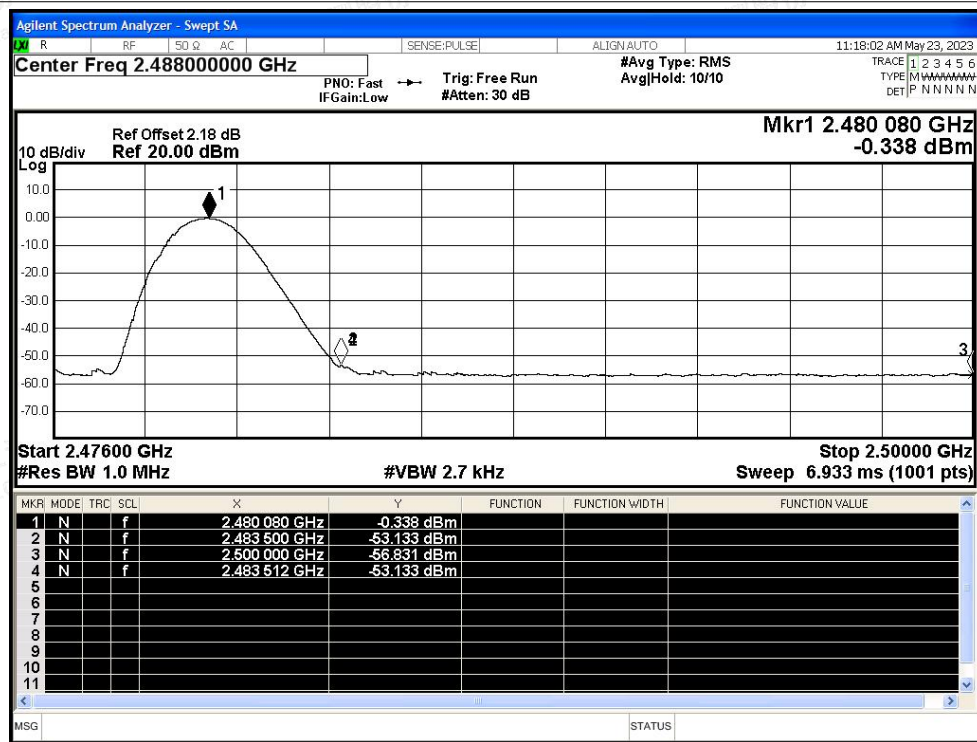




## Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



## Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



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