



## Appendix B

### RF Test Data for BLE (Conducted Measurement)

**Product Name: Wireless headphones**

**Test Model: S-80**

**Trade Mark: V-MODA**

#### Environmental Conditions

Temperature:	23.5 °C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Wunder Wu
Supervised by:	Li huan



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## B.1 6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	6 dB Bandwidth (MHz)	Limit 6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.663	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.653	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.667	0.5	Pass



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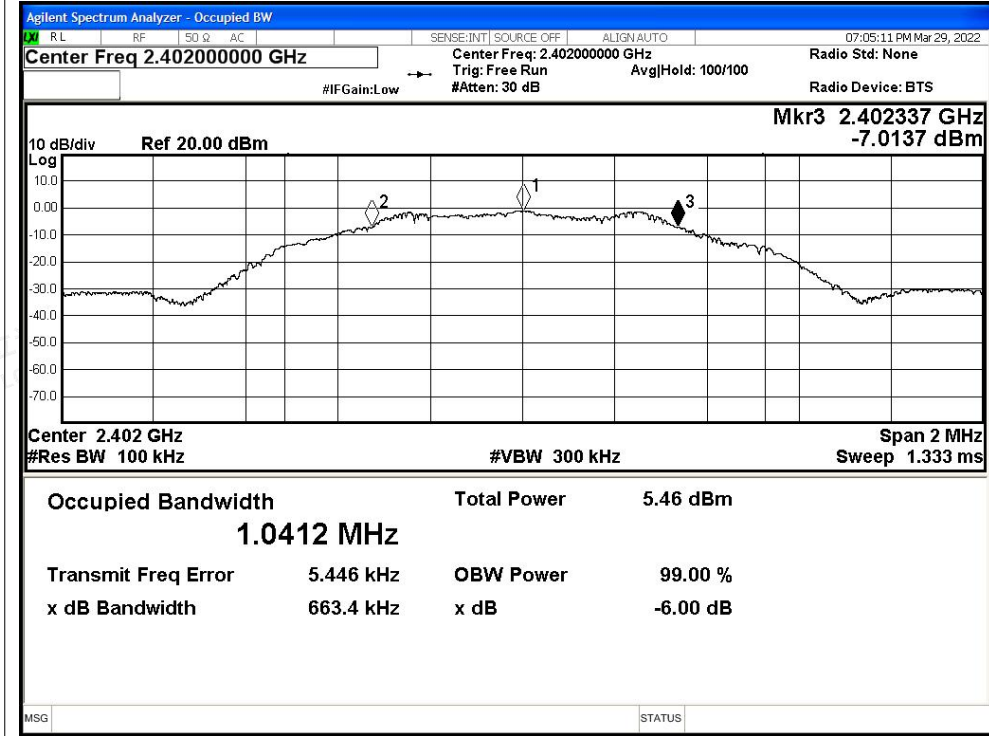
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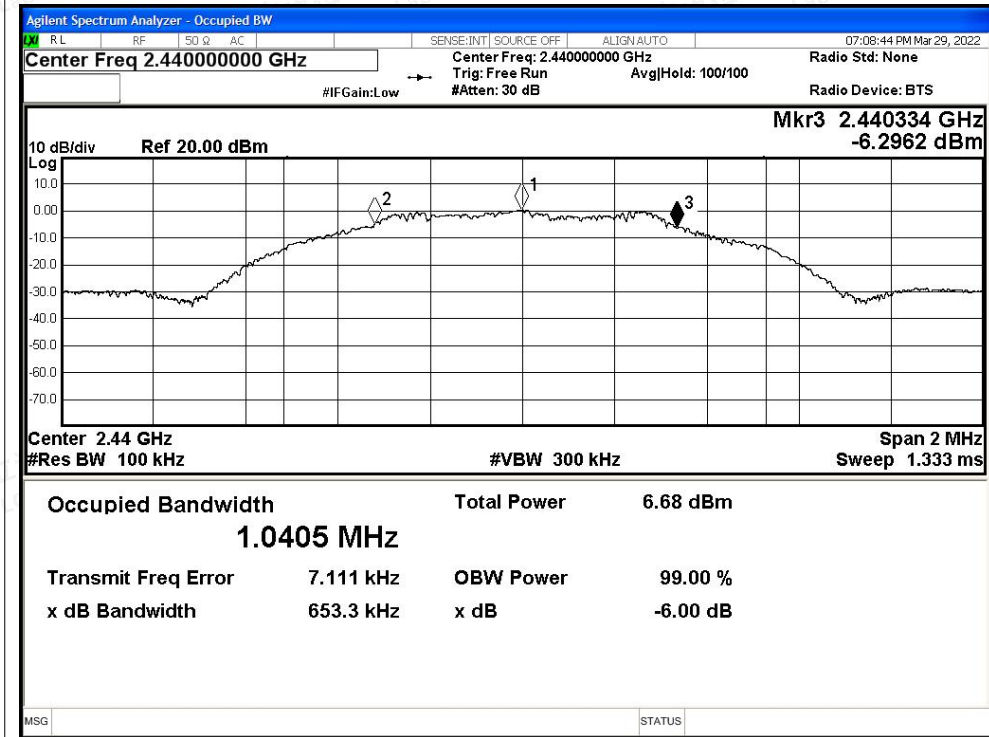


Test Graphs

6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



6dB Bandwidth NVNT BLE 1M 2440MHz Ant1

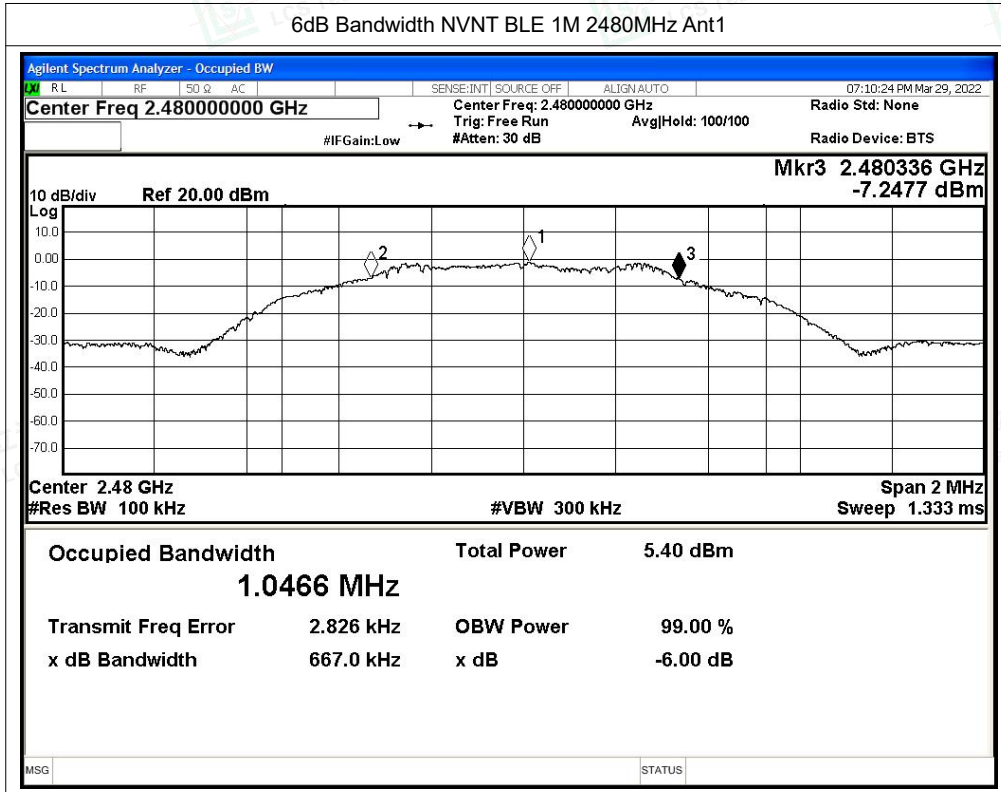


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### B.2 99% Occupied Bandwidth

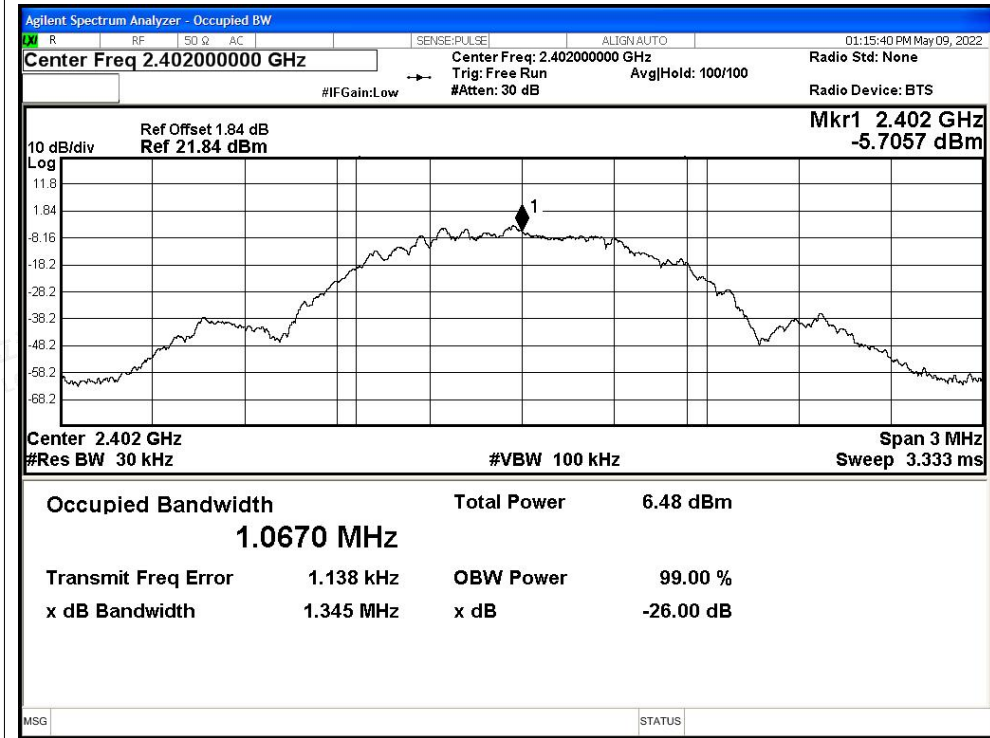
Condition	Mode	Frequency (MHz)	Antenna	OCB (MHz)	Limit OCB (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	1.067	N/A	Pass
NVNT	BLE 1M	2440	Ant1	1.064	N/A	Pass
NVNT	BLE 1M	2480	Ant1	1.070	N/A	Pass



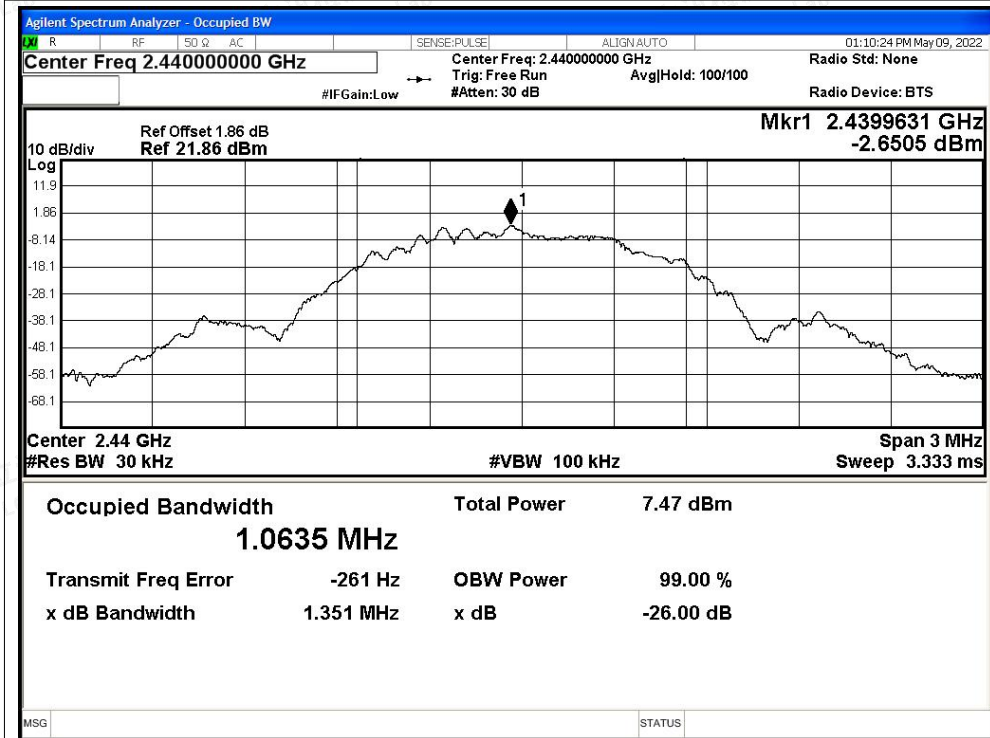


Test Graphs

OBW NVNT BLE 1M 2402MHz Ant1



OBW NVNT BLE 1M 2440MHz Ant1

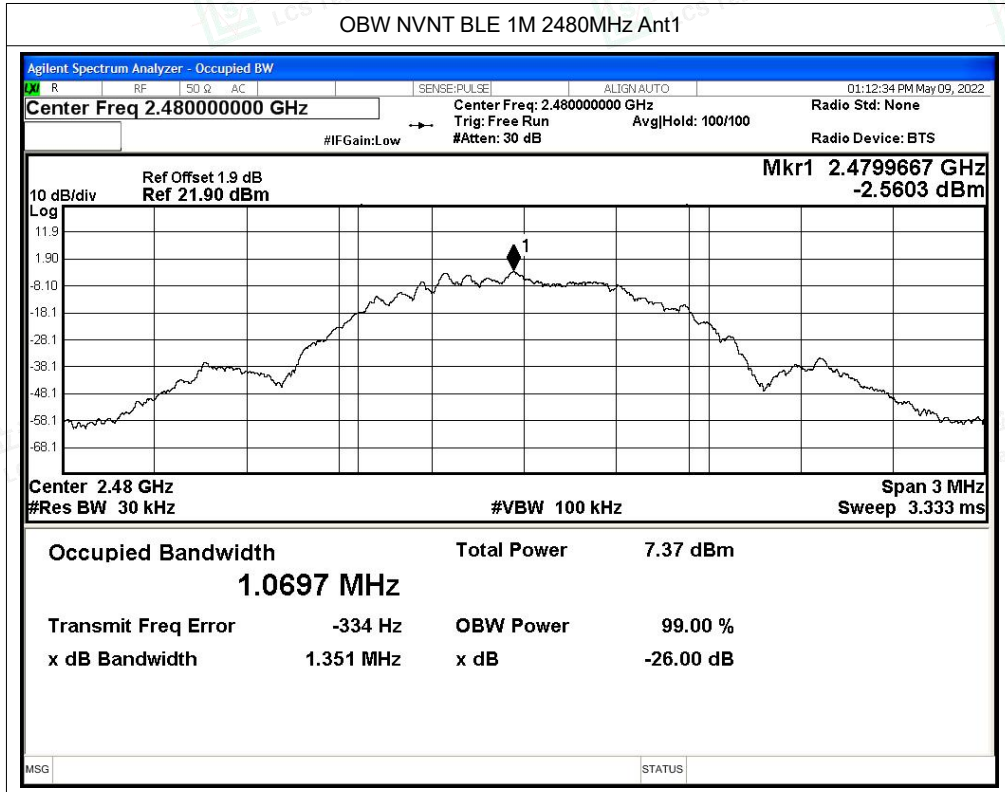


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### B.3 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-0.37	30	Pass
NVNT	BLE 1M	2440	Ant1	0.94	30	Pass
NVNT	BLE 1M	2480	Ant1	-0.38	30	Pass

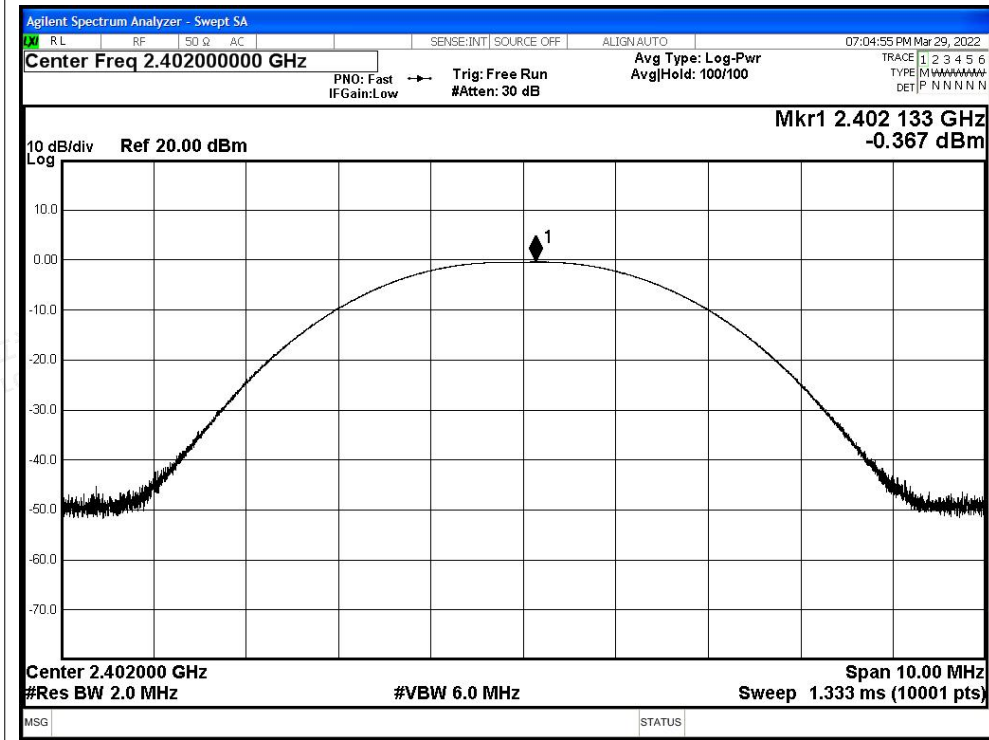




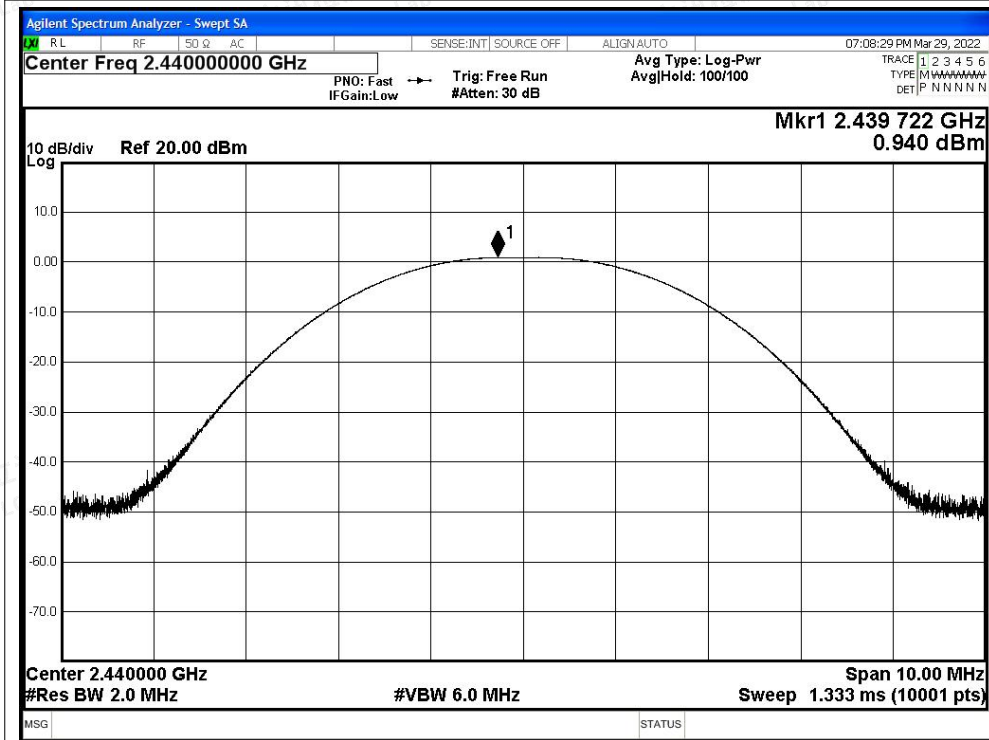


Test Graphs

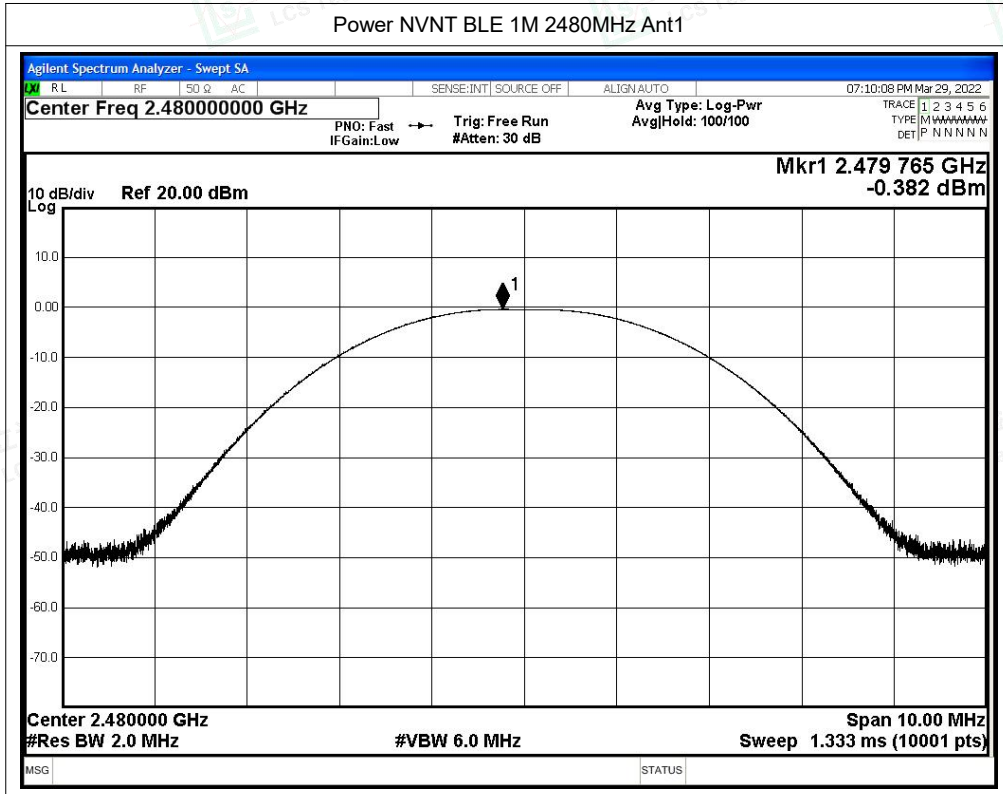
Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1









## B.4 Maximum Power Spectral Density

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-15.27	0	-15.27	8	Pass
NVNT	BLE 1M	2440	Ant1	-13.86	0	-13.86	8	Pass
NVNT	BLE 1M	2480	Ant1	-15.22	0	-15.22	8	Pass



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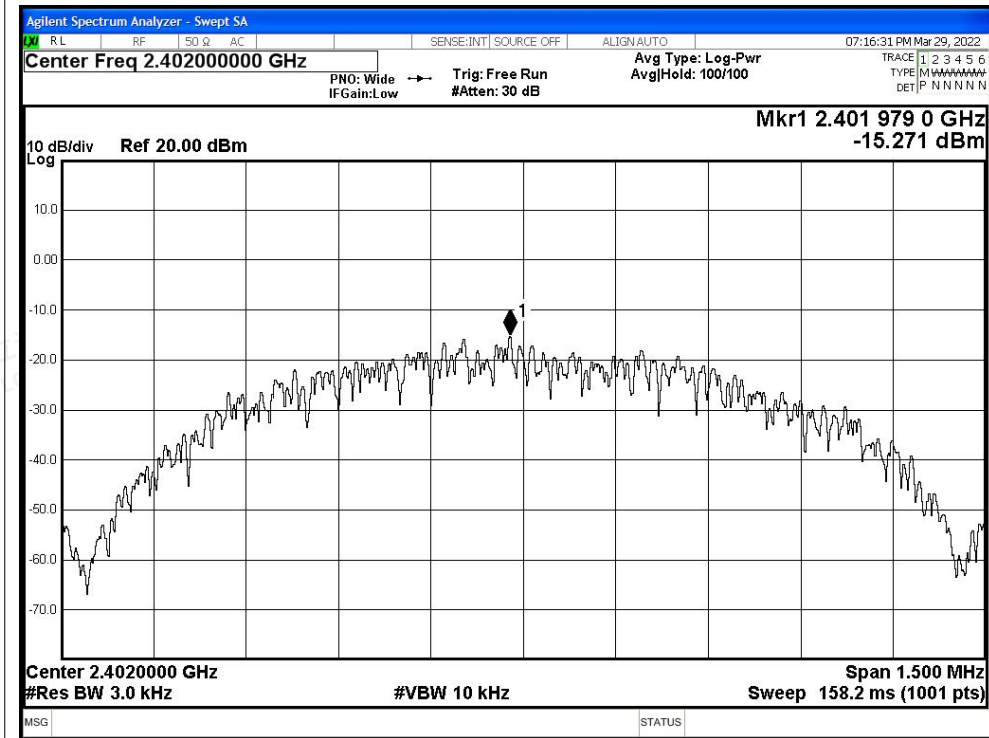
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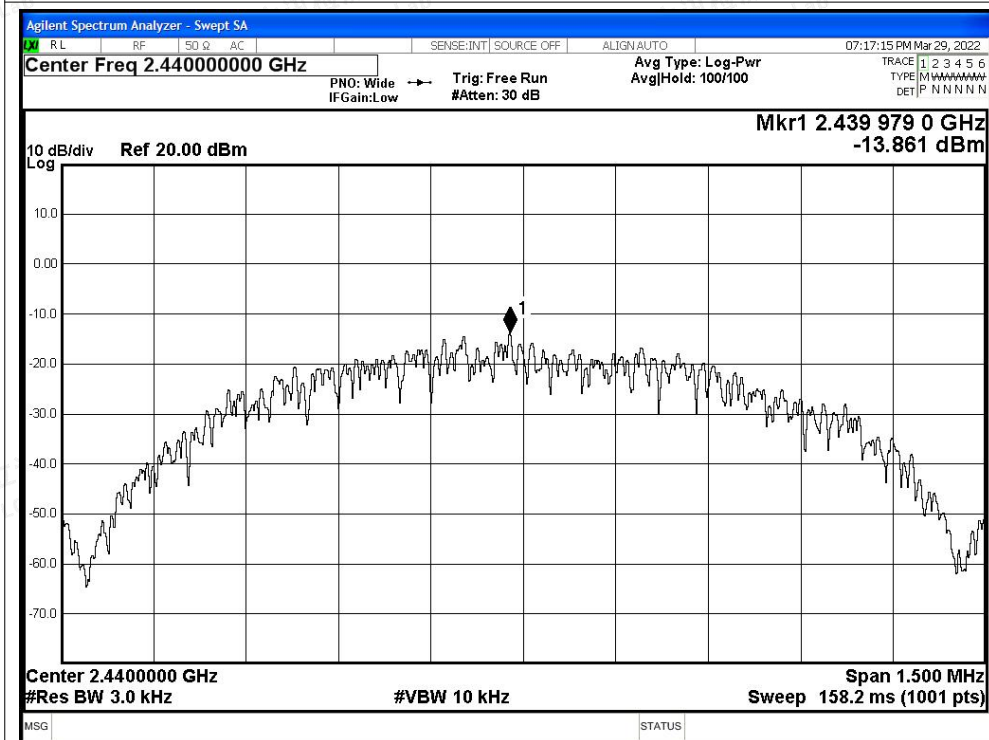


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1

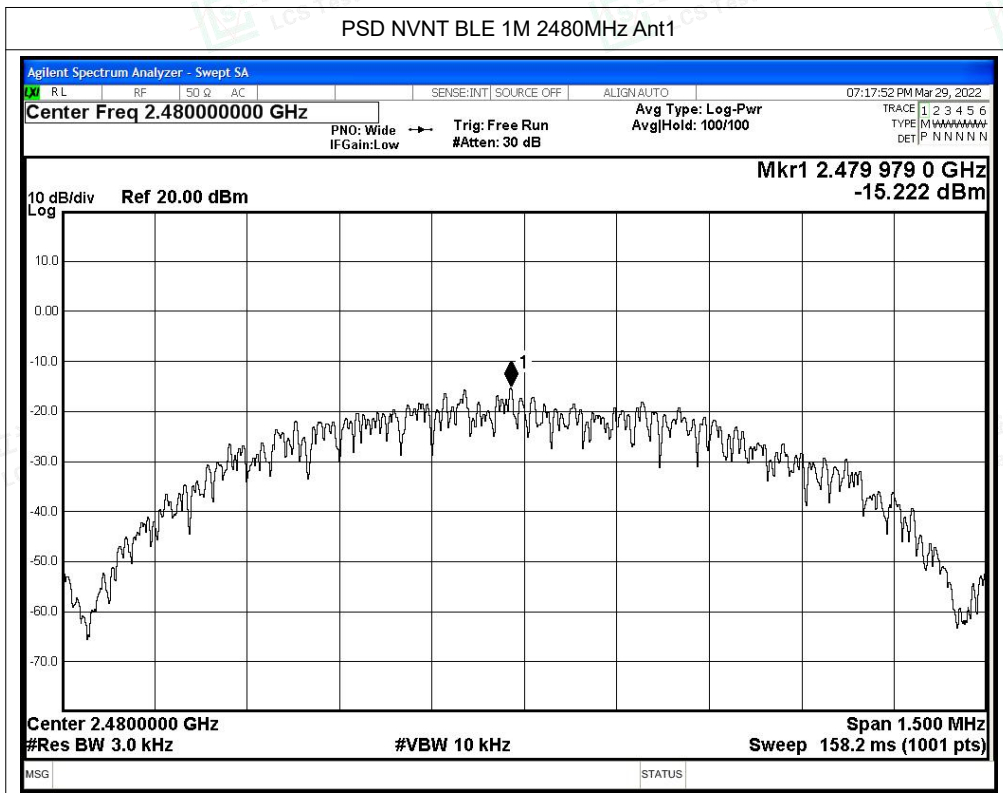


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## B.5 Band edge measurements

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-57.07	-20	Pass
NVNT	BLE 1M	2480	Ant1	-56.79	-20	Pass



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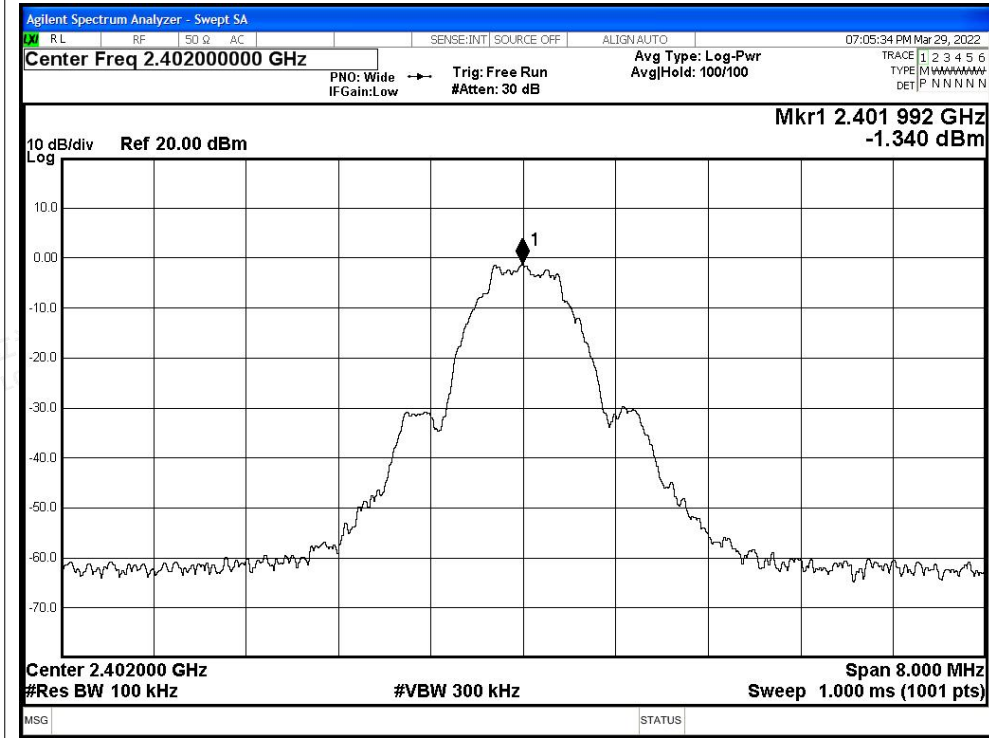
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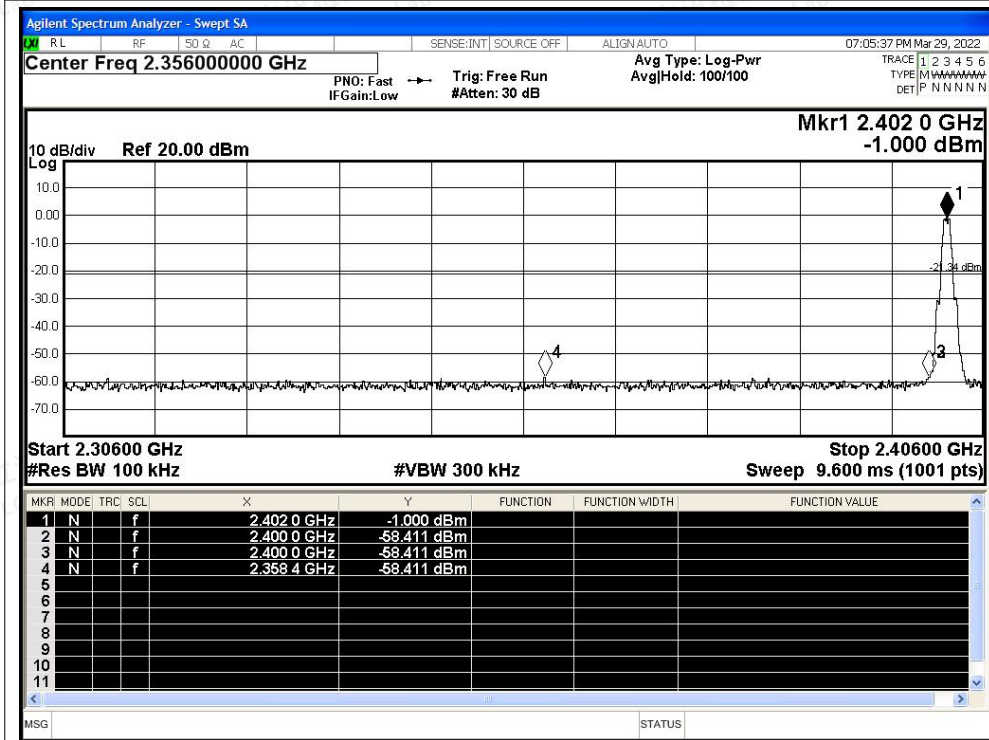


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



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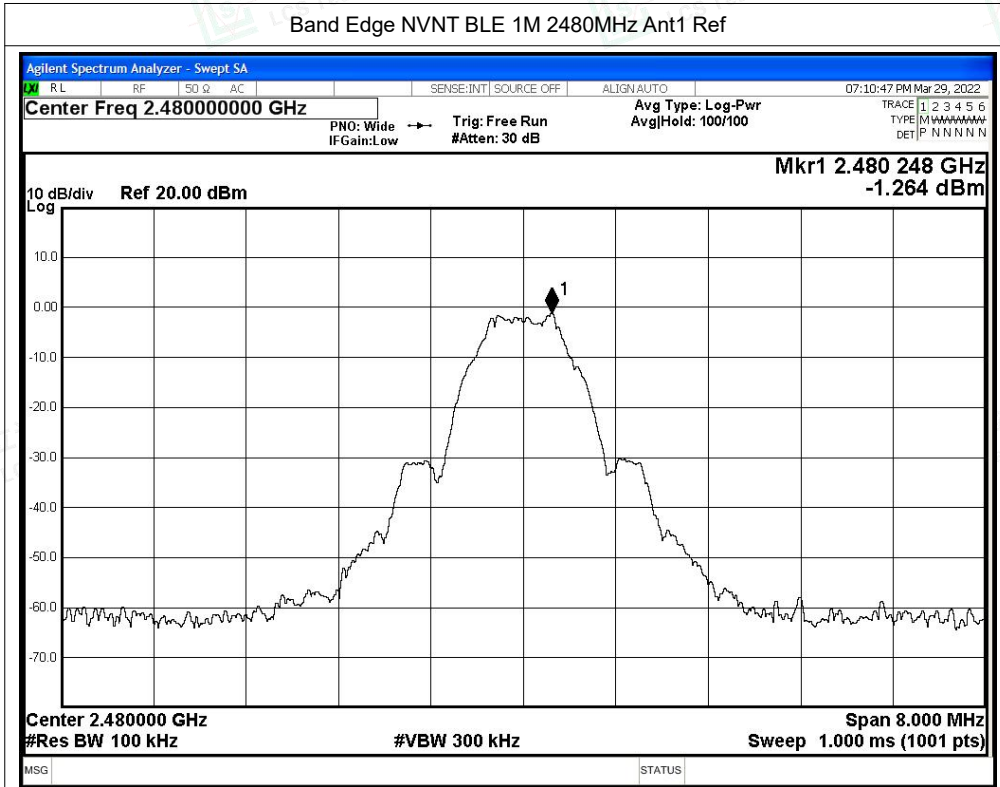
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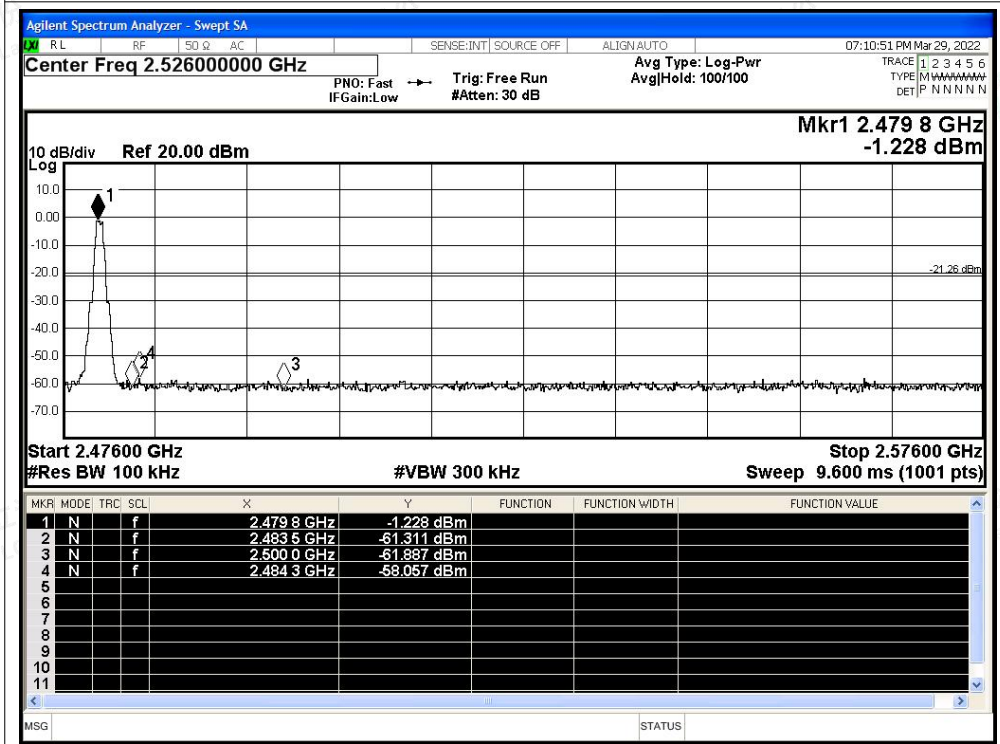
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Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission







## B.6 Conducted Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-56.37	-20	Pass
NVNT	BLE 1M	2440	Ant1	-57.96	-20	Pass
NVNT	BLE 1M	2480	Ant1	-55.1	-20	Pass



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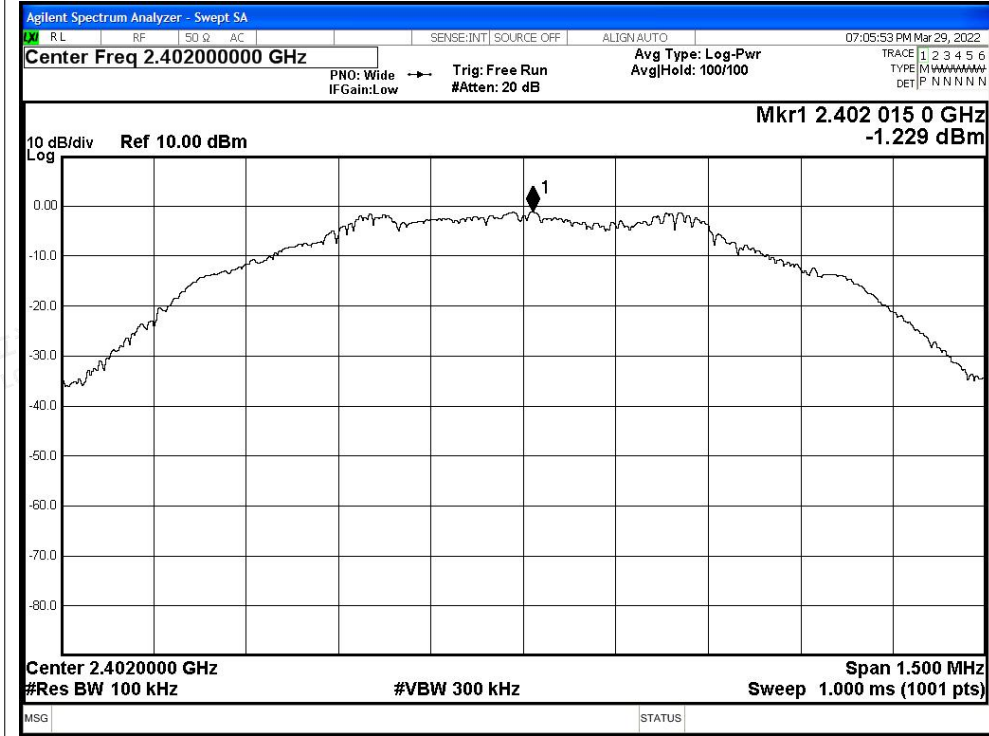
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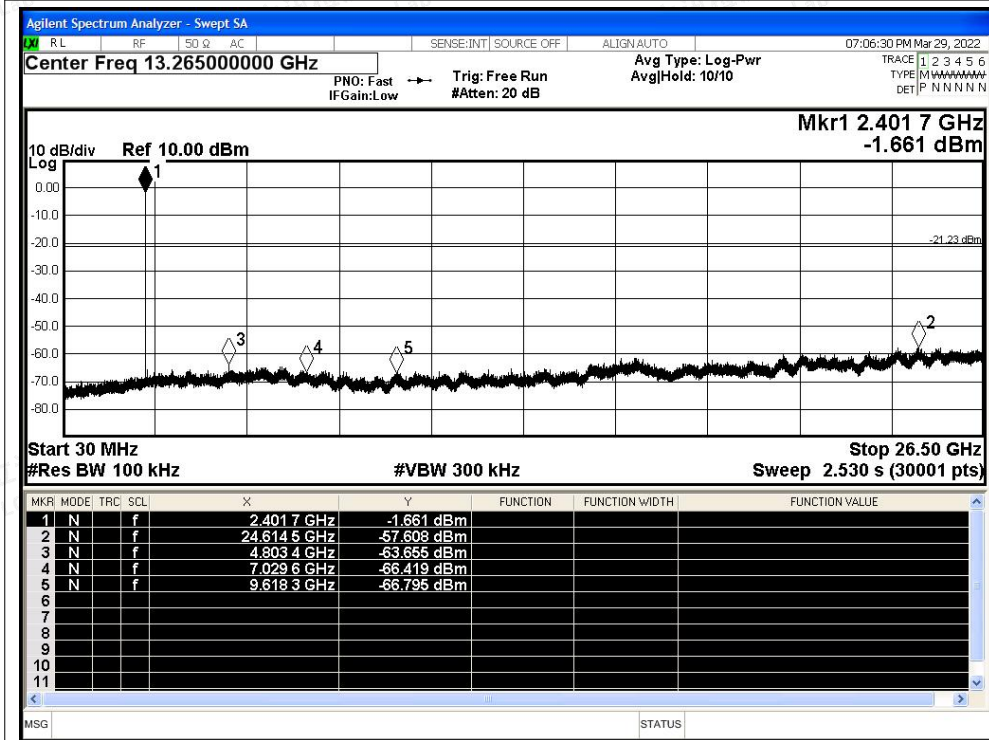


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



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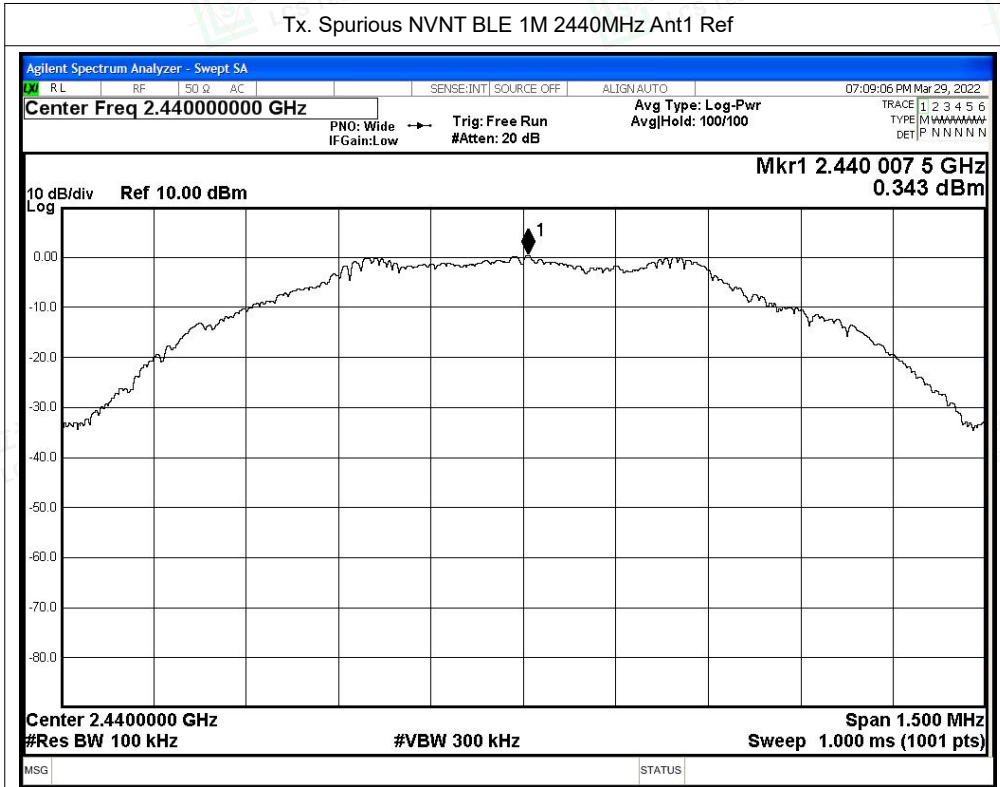
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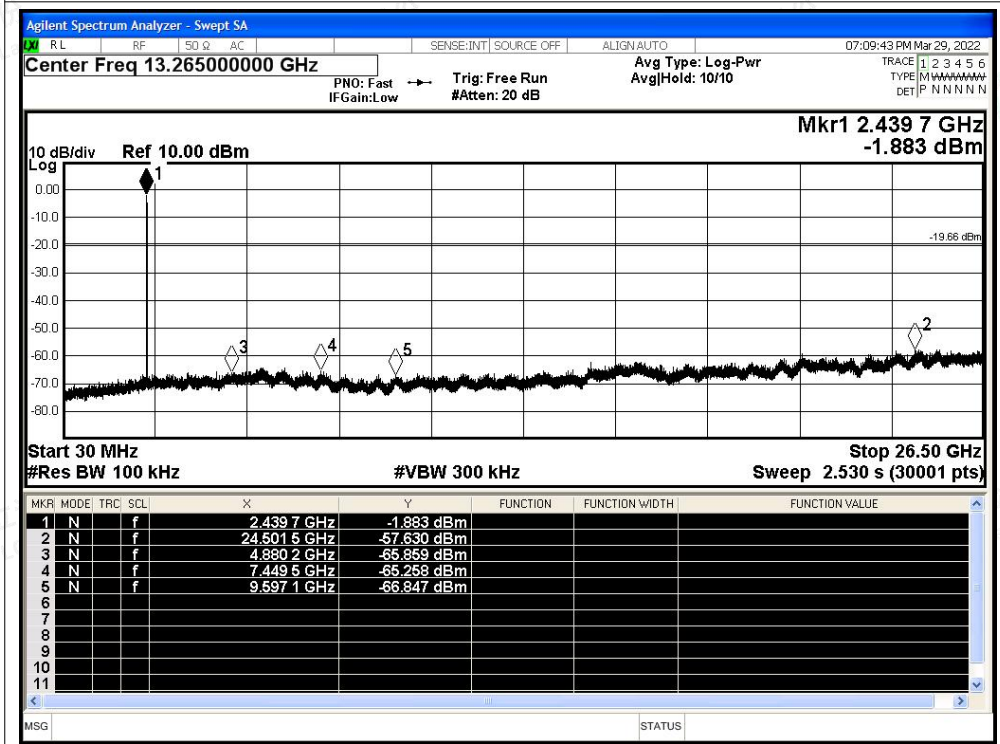
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Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



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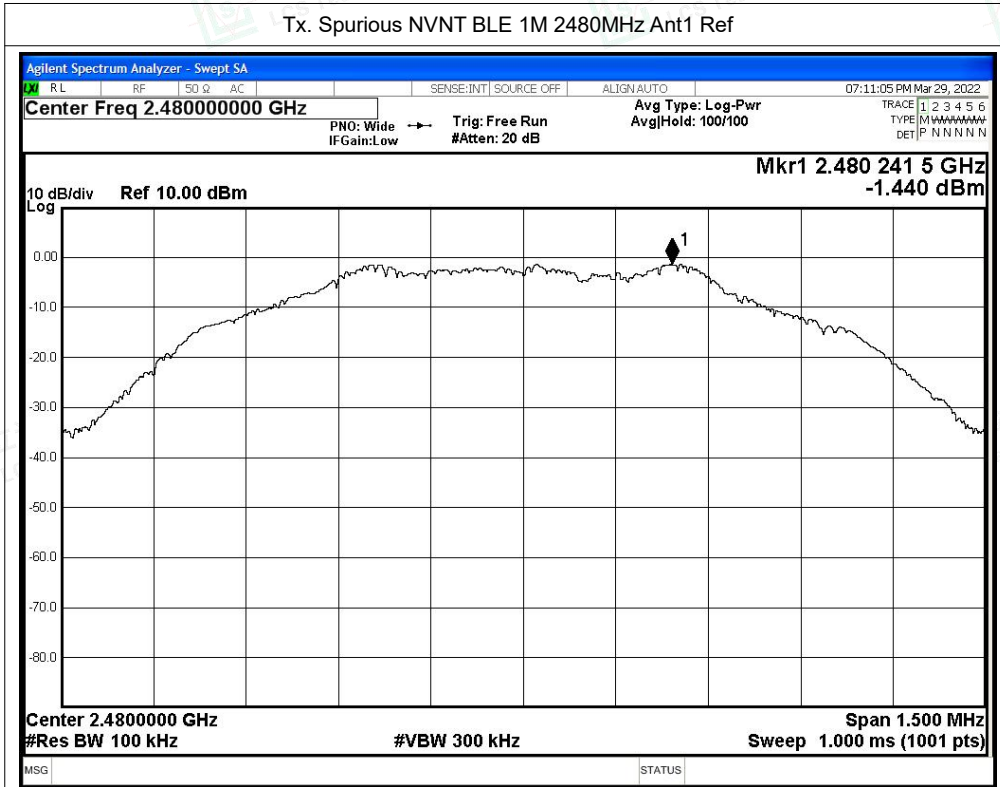
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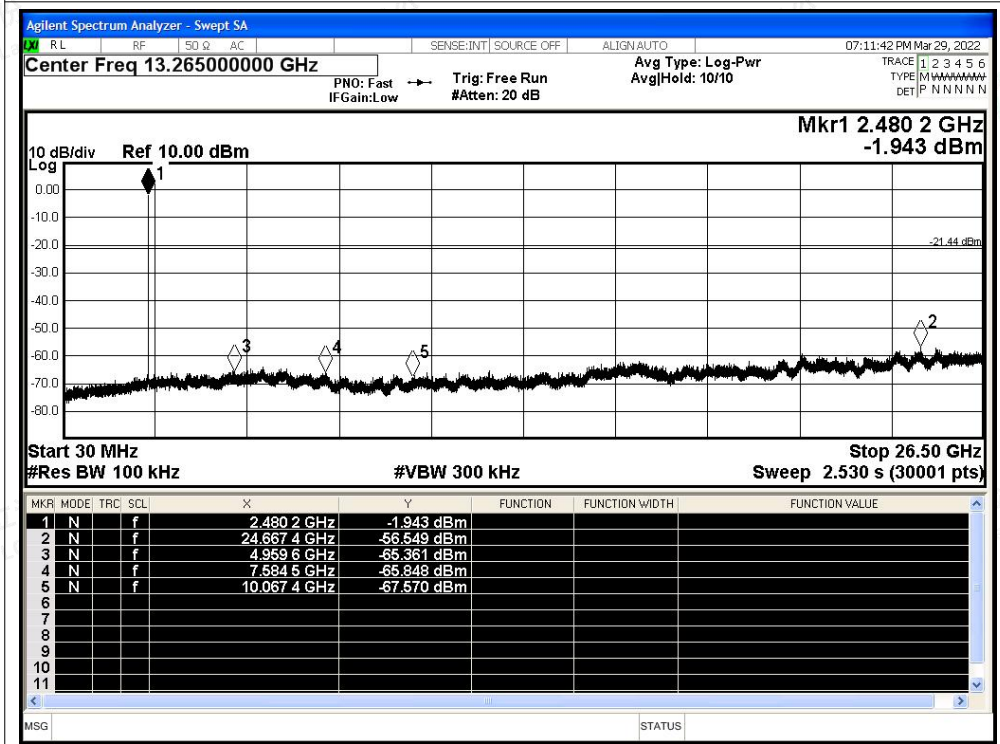
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Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



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## B.7 Duty Cycle

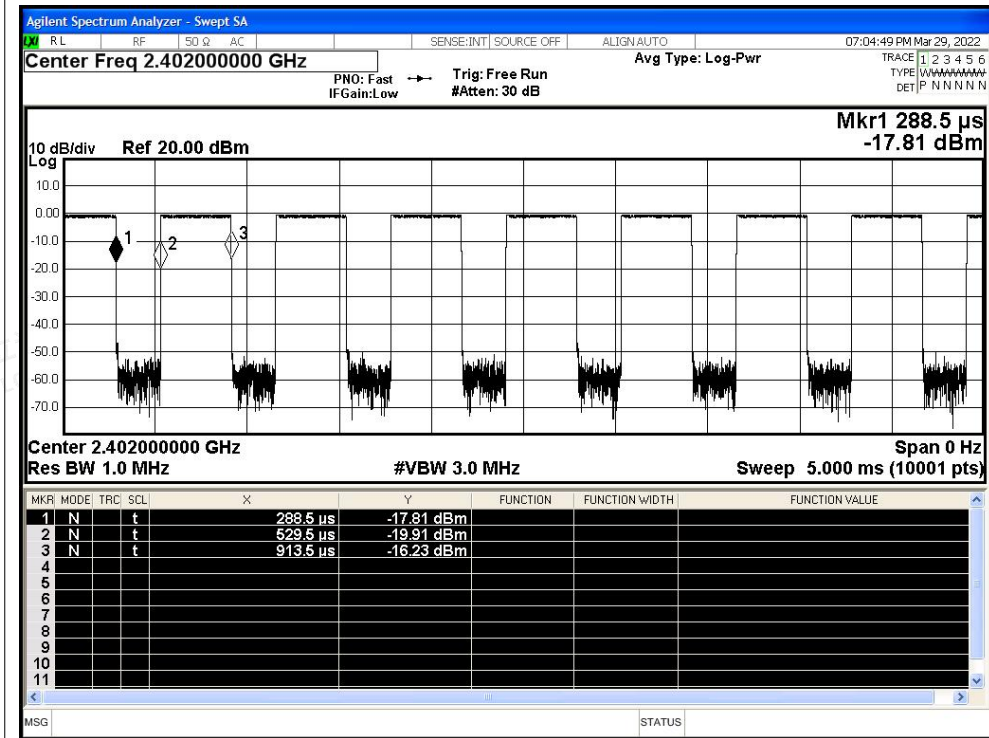
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	61.44	2.12	2.6
NVNT	BLE 1M	2440	Ant1	61.44	2.12	2.6
NVNT	BLE 1M	2480	Ant1	61.39	2.12	2.6



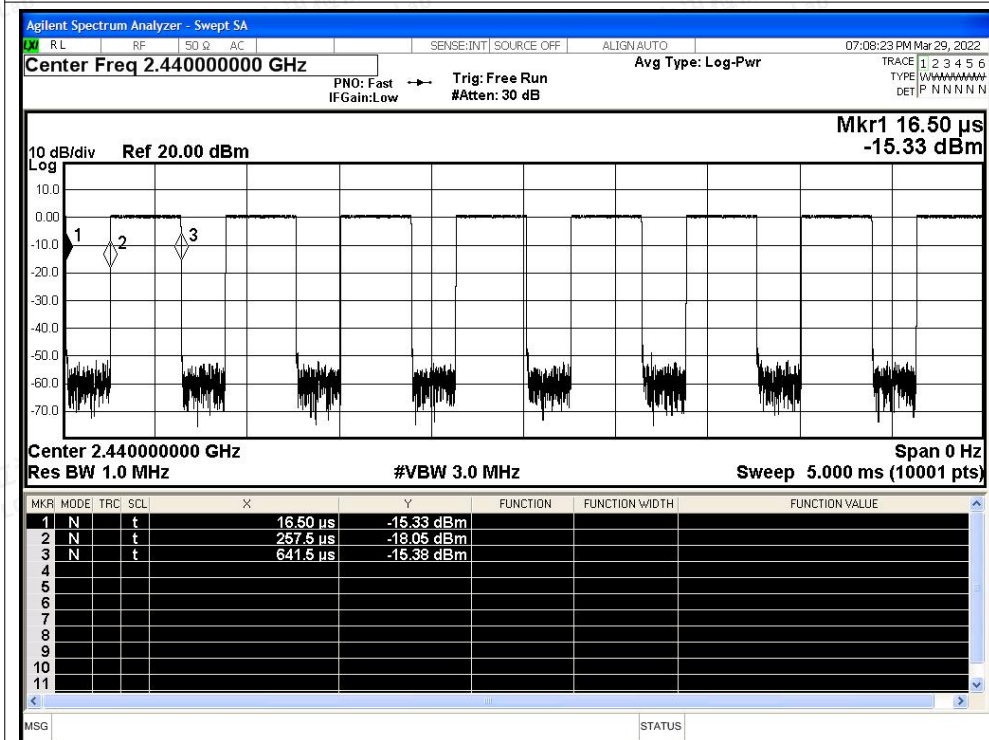


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1



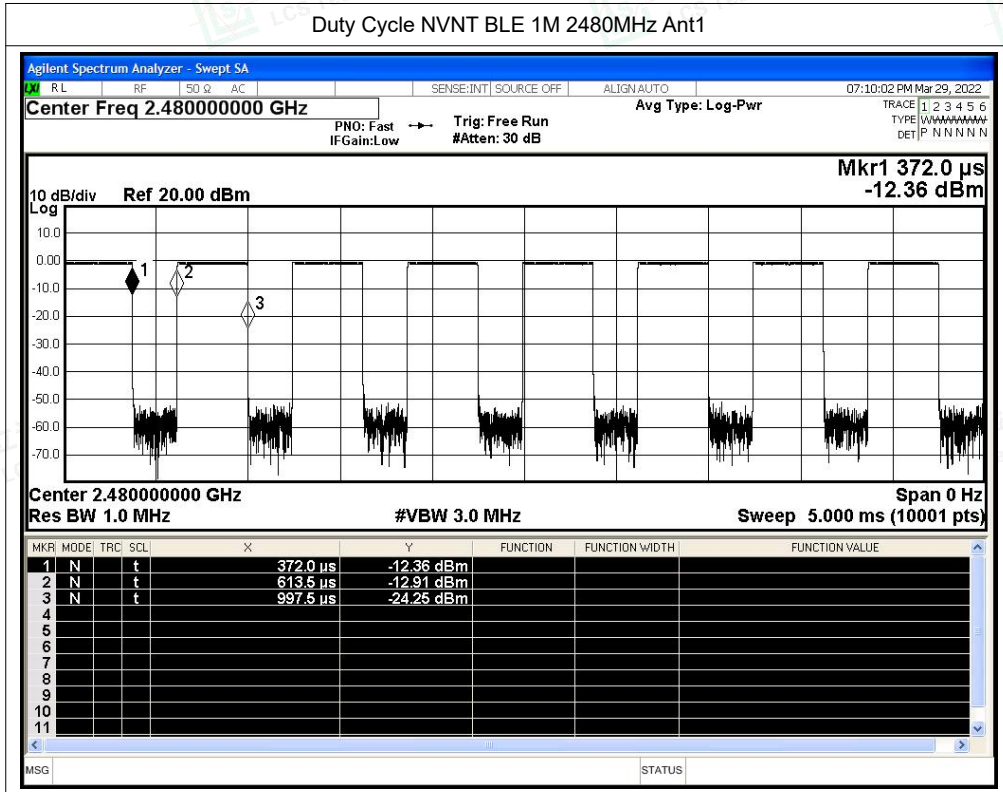
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## B.8 Emissions in Restricted Bands

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	-52.26	2	45	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-61.24	2	36.02	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2389.392	-48.48	2	48.78	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2369.232	-60.21	2	37.05	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-51.1	2	46.16	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-60.68	2	36.58	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-51.67	2	45.59	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-60.26	2	37	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2496.928	-48.73	2	48.53	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.584	-60.05	2	37.21	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-51.73	2	45.53	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-61.02	2	36.24	Average	54	Pass



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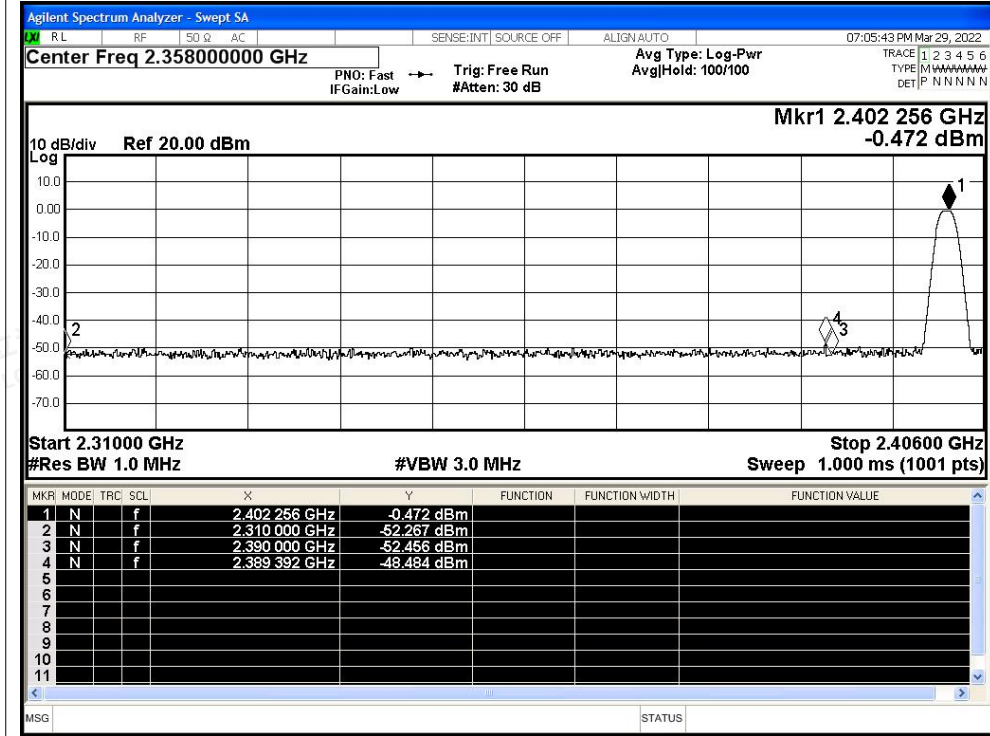
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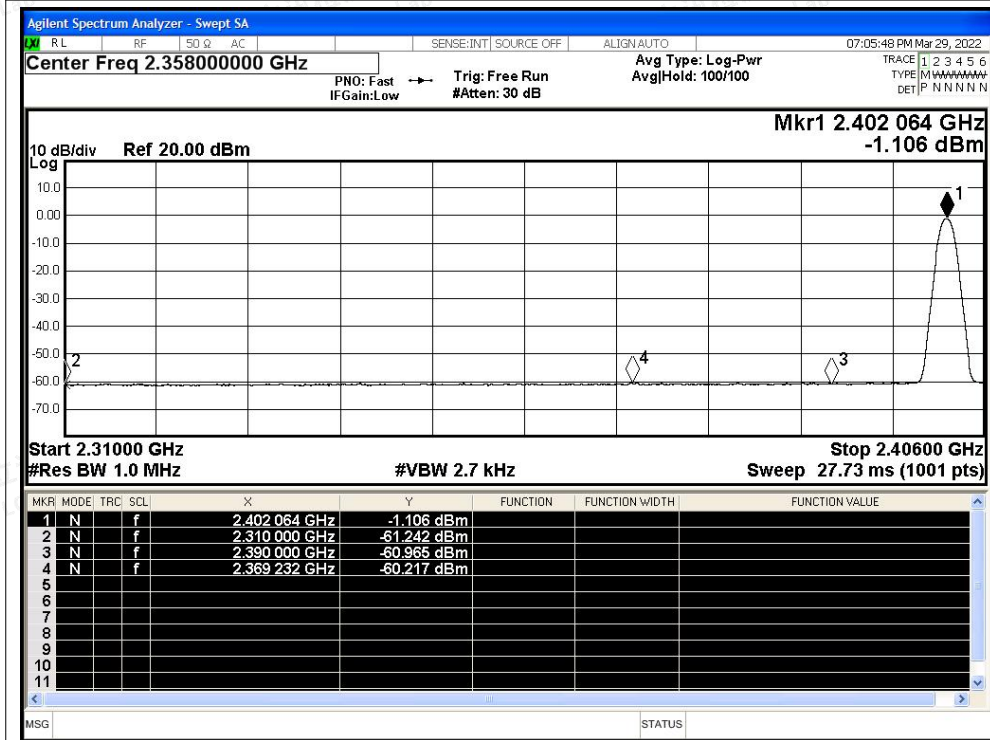


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



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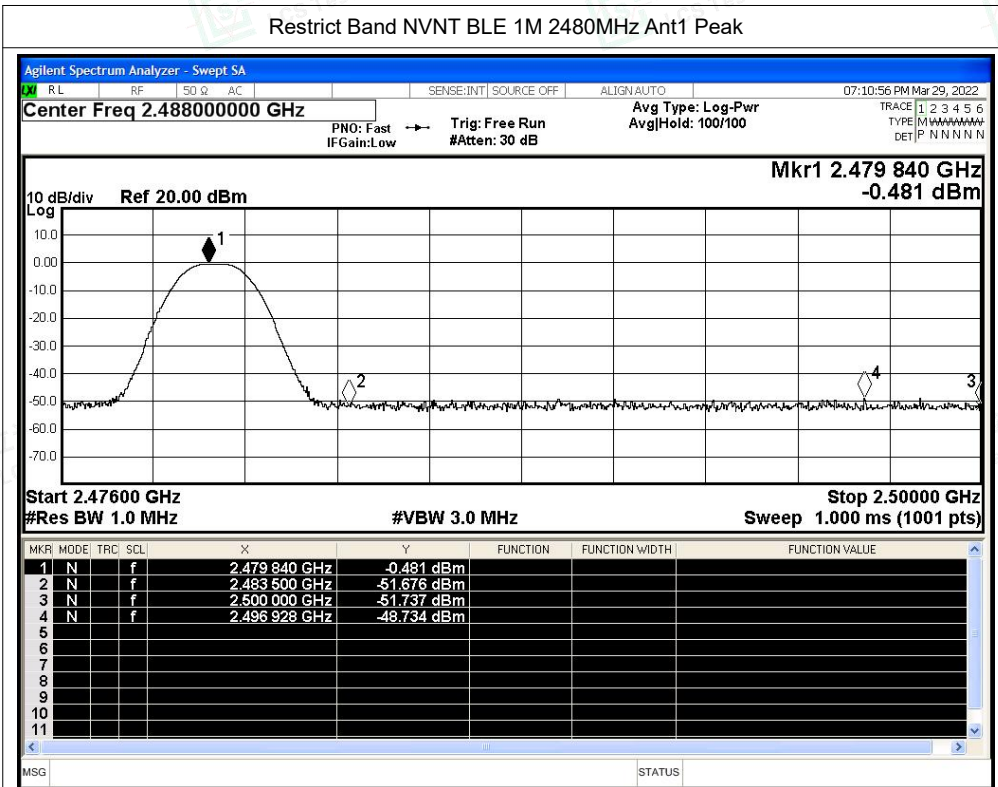
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Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant1 Average

