



Appendix A

RF Test Data for BT LE(Conducted Measurement)

Product Name: Squirrel PRO Smart Health Massager

Test Model: SV02

Environmental Conditions

Temperature:	24.2°C
Relative Humidity:	52.8%
ATM Pressure:	100.0 kPa
Test Engineer:	Can Kun
Supervised by:	Nick Peng



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A.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.655	≥ 0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.652	≥ 0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.682	≥ 0.5	Pass

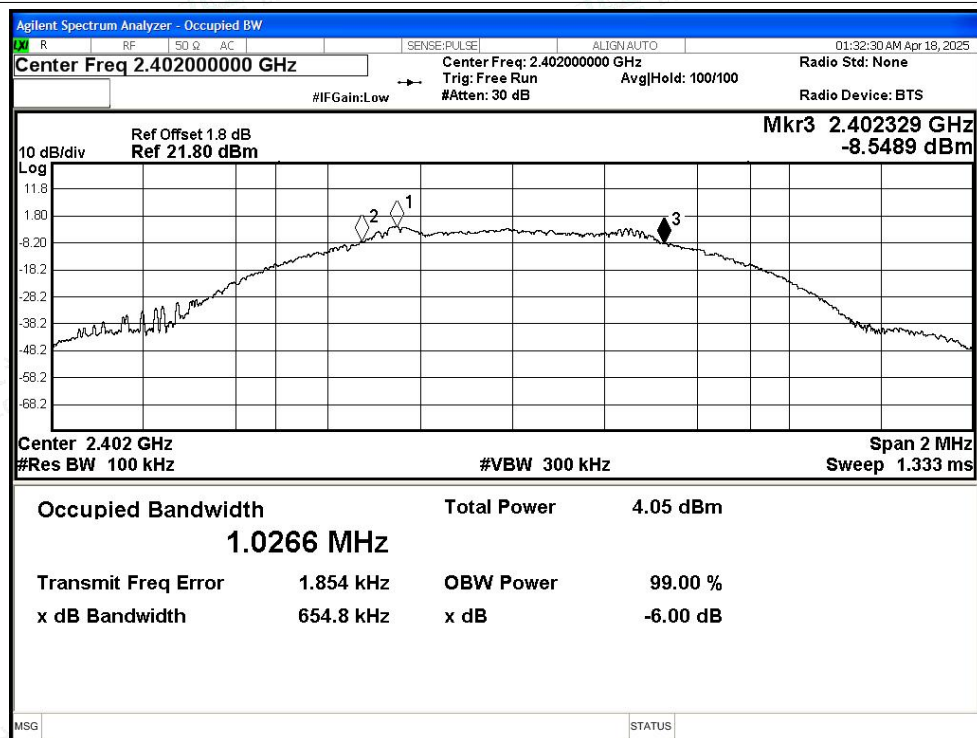


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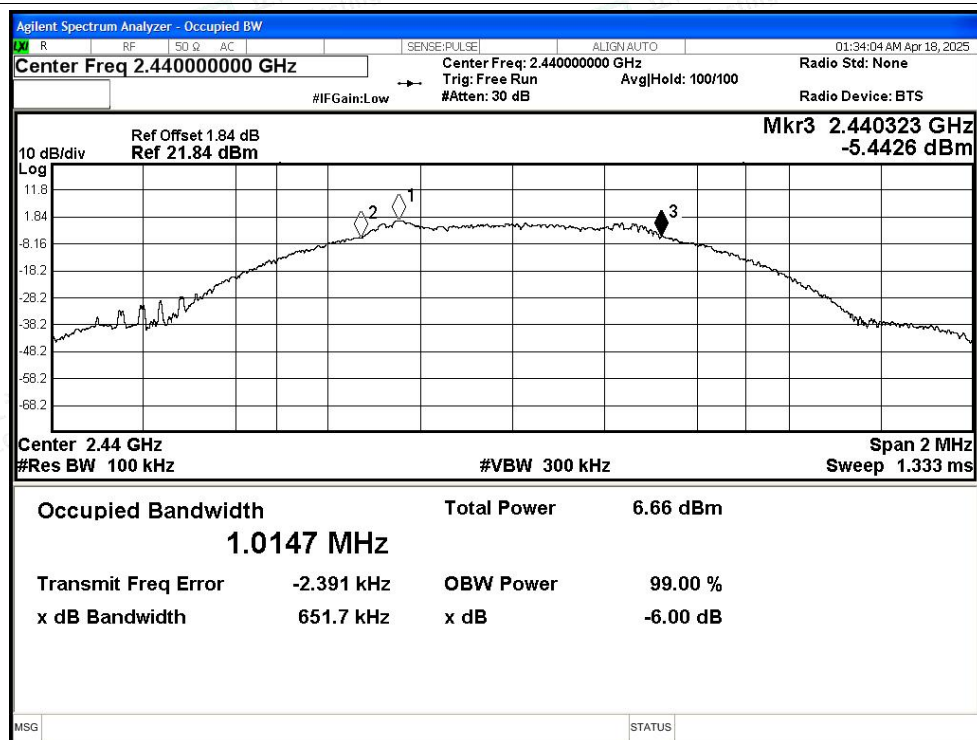


Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1

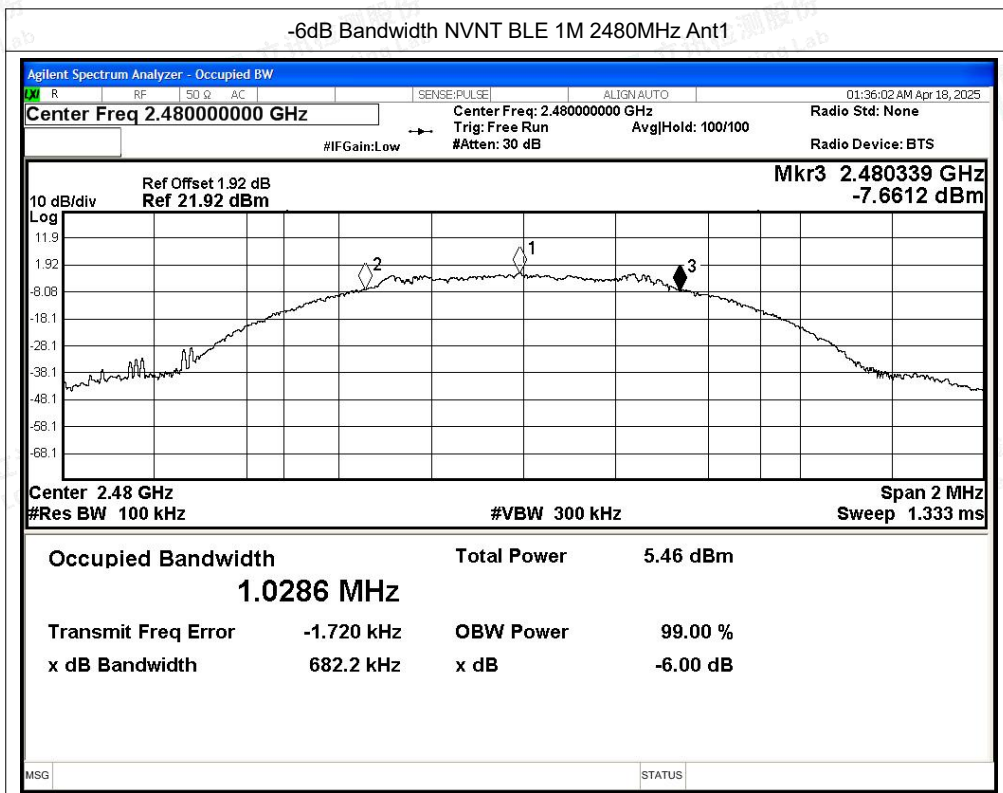


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A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-1.73	30	Pass
NVNT	BLE 1M	2440	Ant1	0.8	30	Pass
NVNT	BLE 1M	2480	Ant1	-0.19	30	Pass

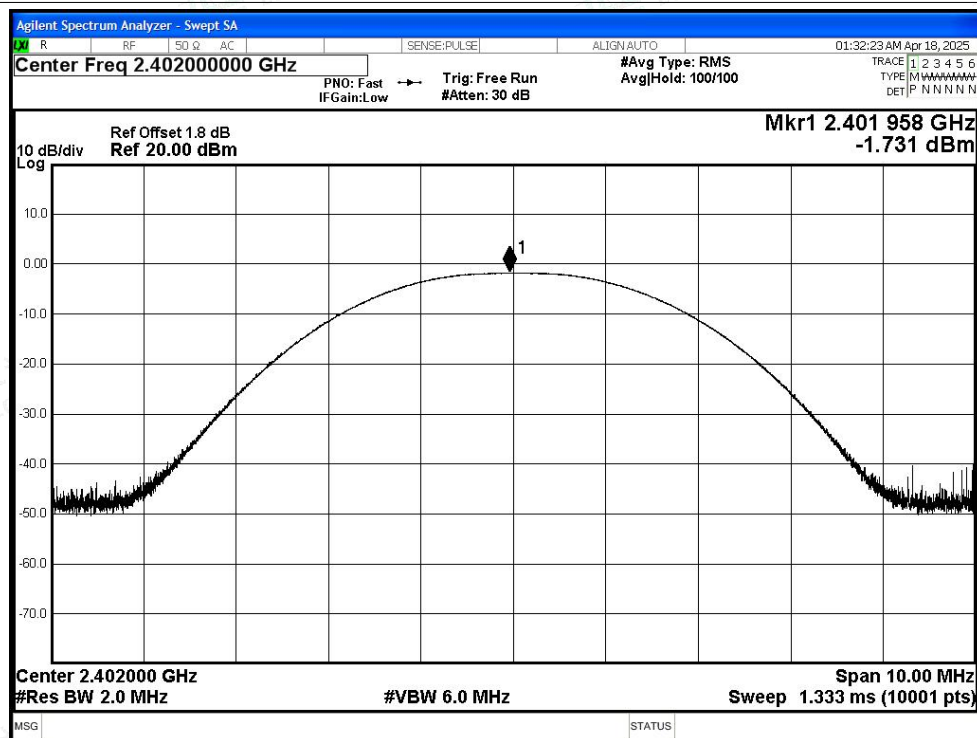


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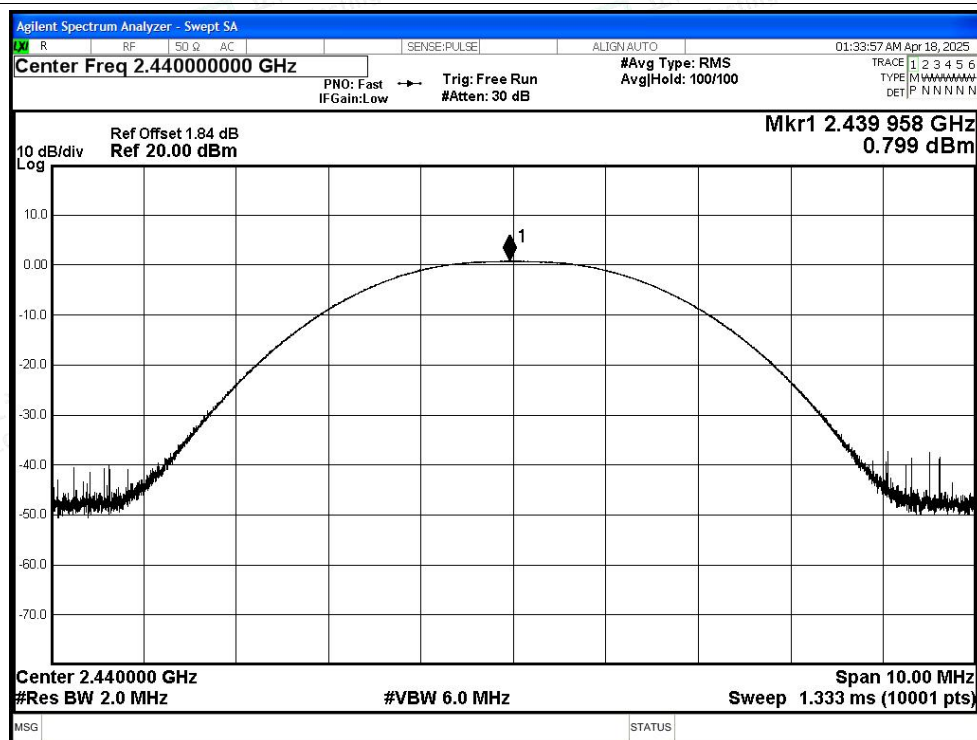


Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1

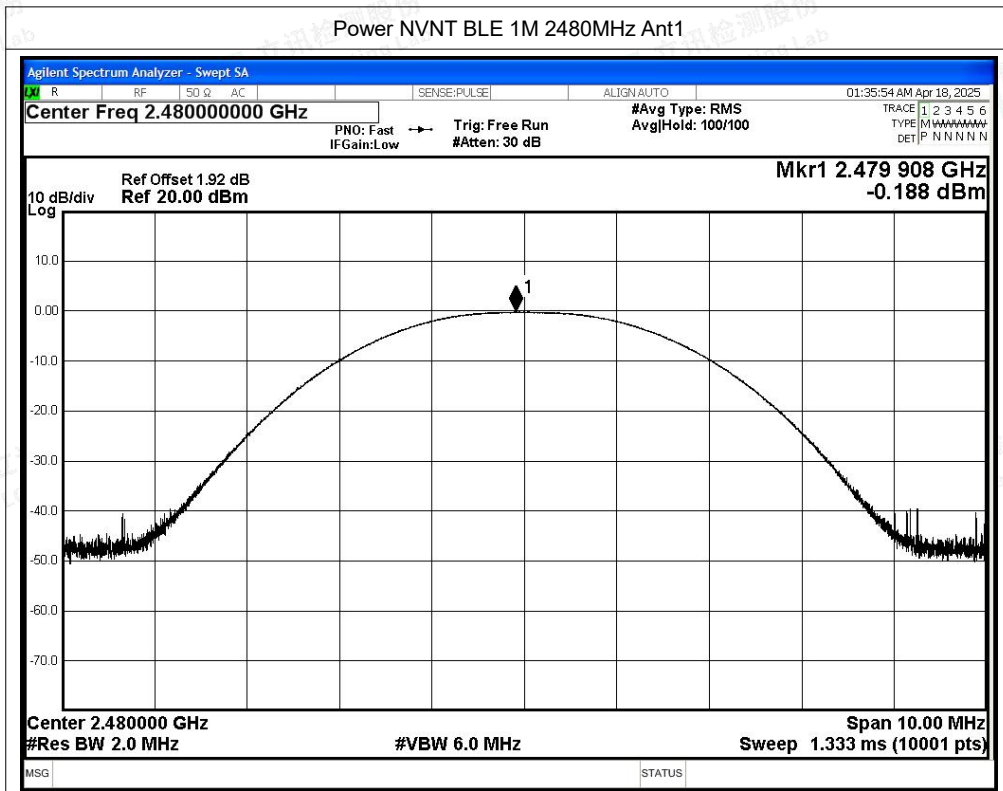


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A.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-18.13	8	Pass
NVNT	BLE 1M	2440	Ant1	-15.84	8	Pass
NVNT	BLE 1M	2480	Ant1	-16.81	8	Pass

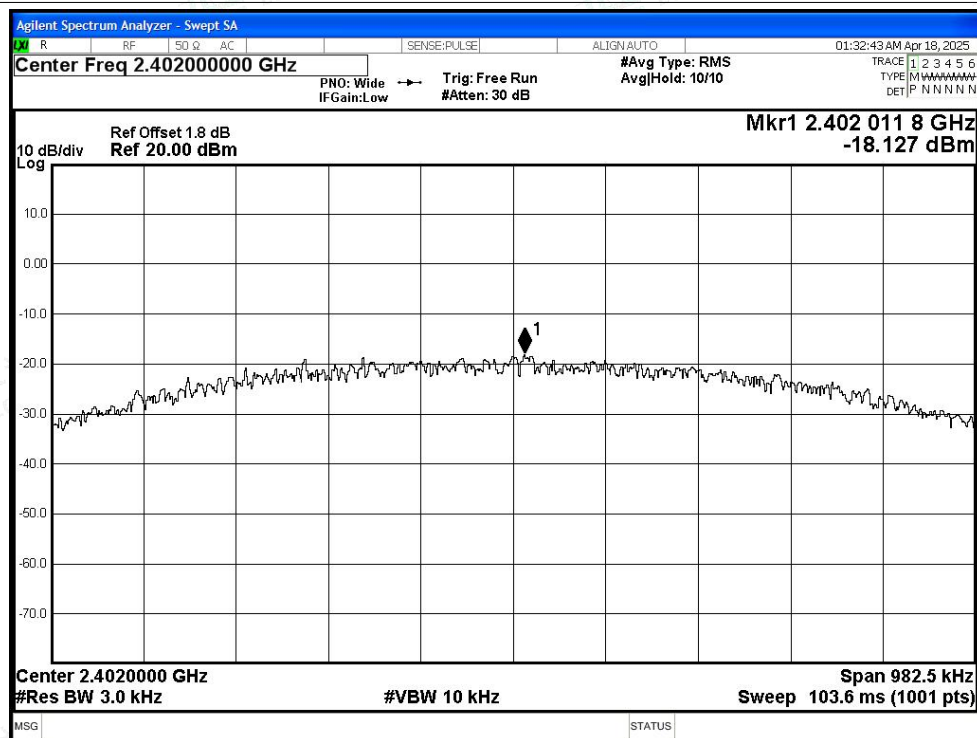


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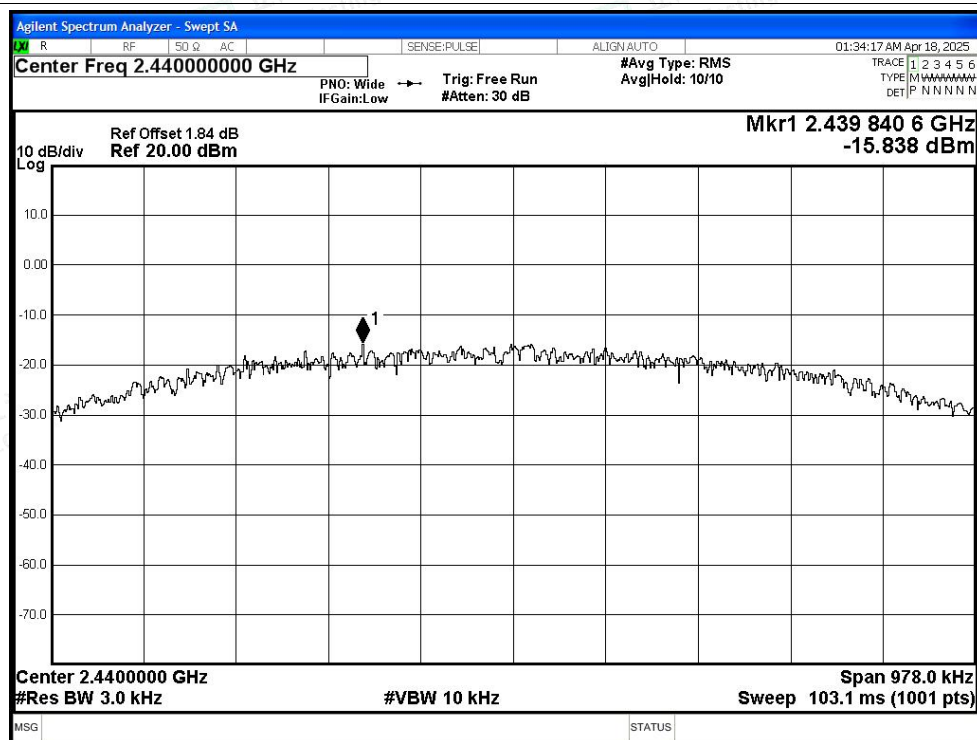


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1

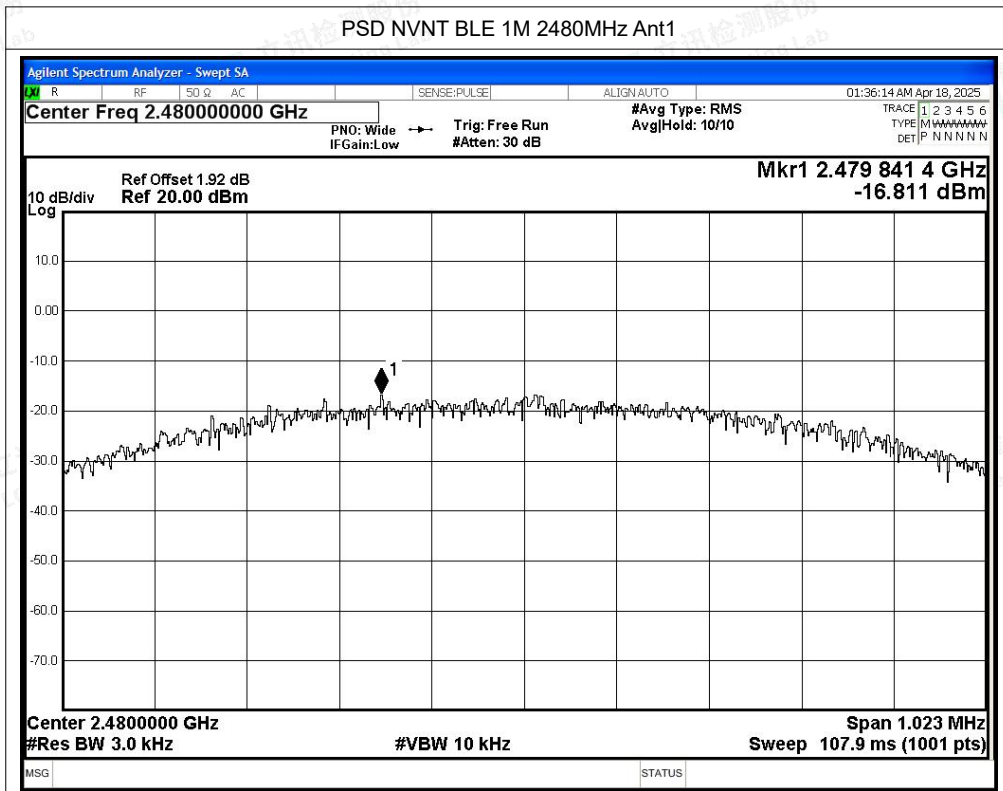


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A.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-55.06	-20	Pass
NVNT	BLE 1M	2480	Ant1	-56.87	-20	Pass

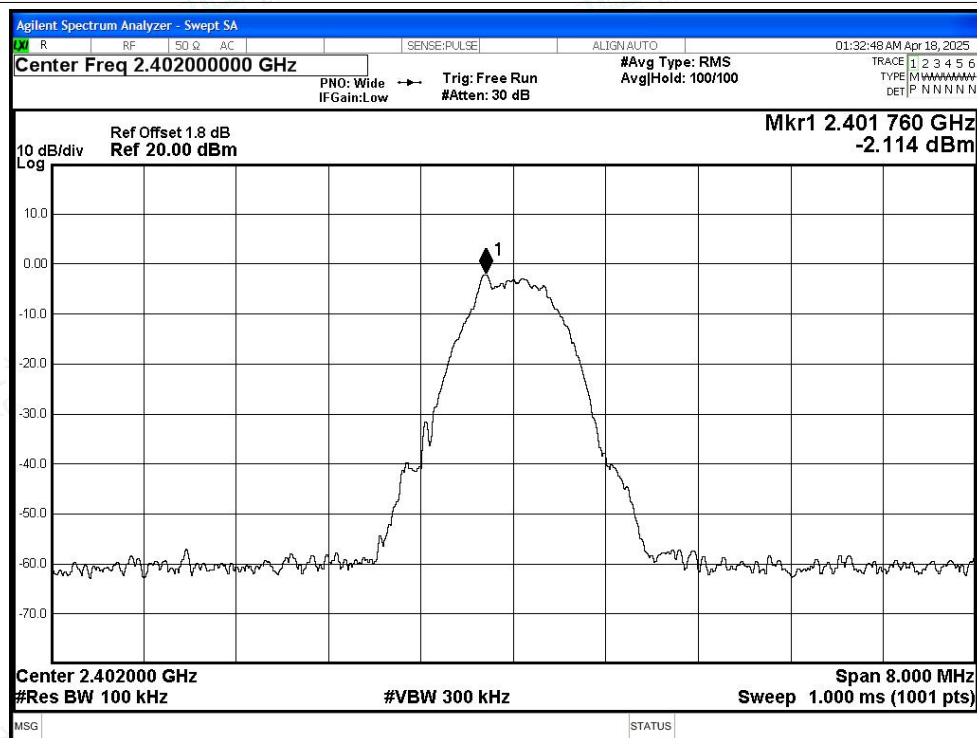


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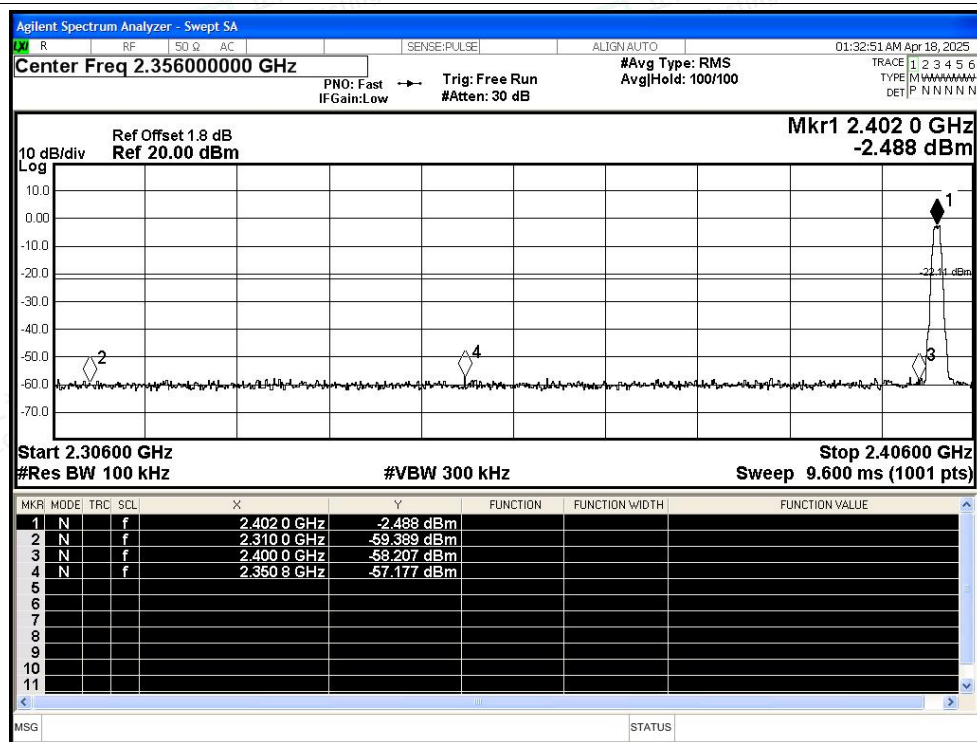


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



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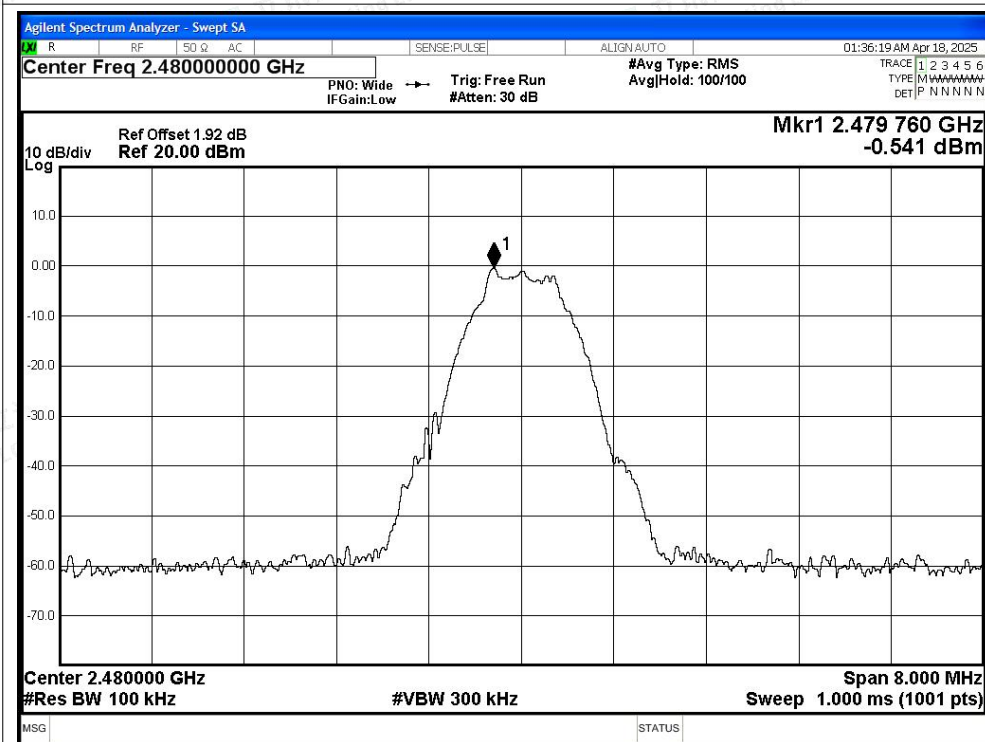
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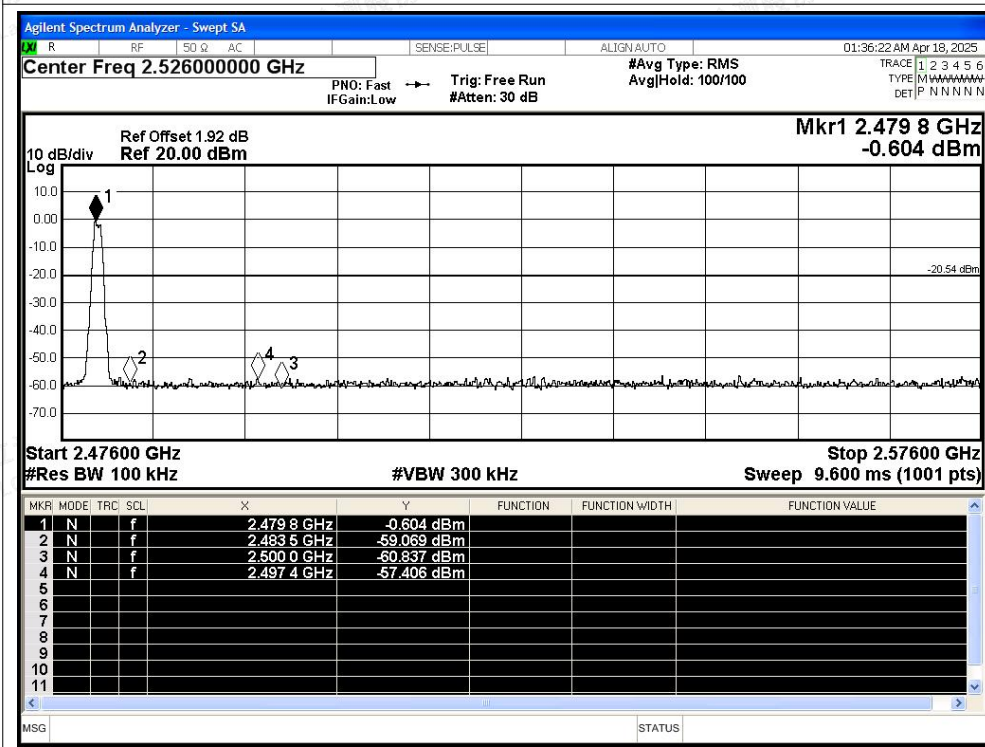
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Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



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A.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-52.85	-20	Pass
NVNT	BLE 1M	2440	Ant1	-55.64	-20	Pass
NVNT	BLE 1M	2480	Ant1	-54.88	-20	Pass

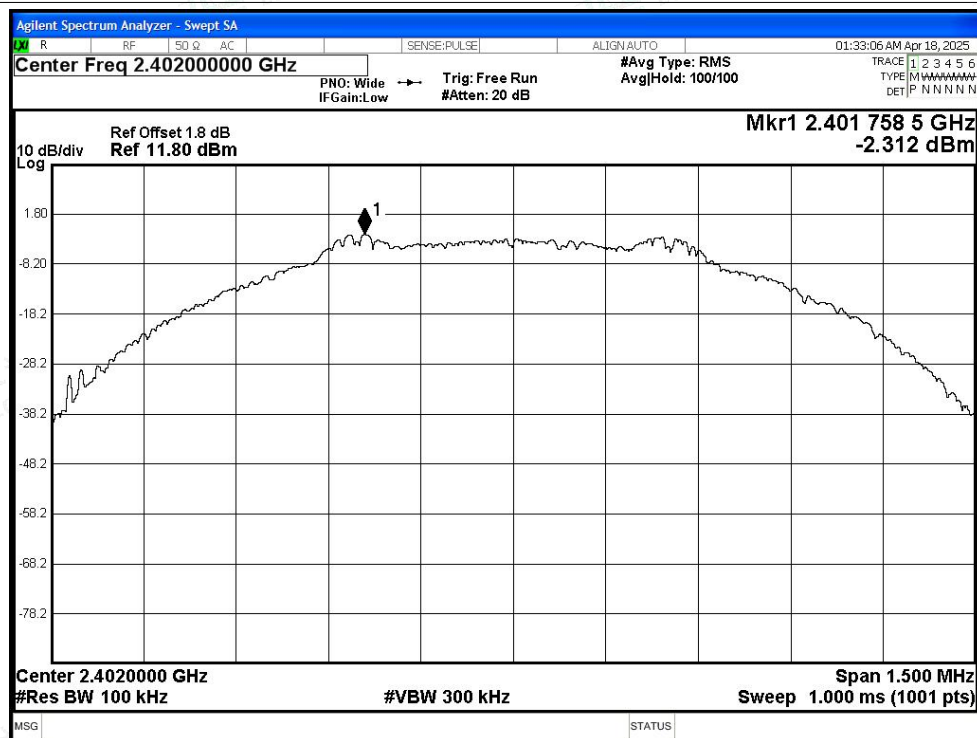


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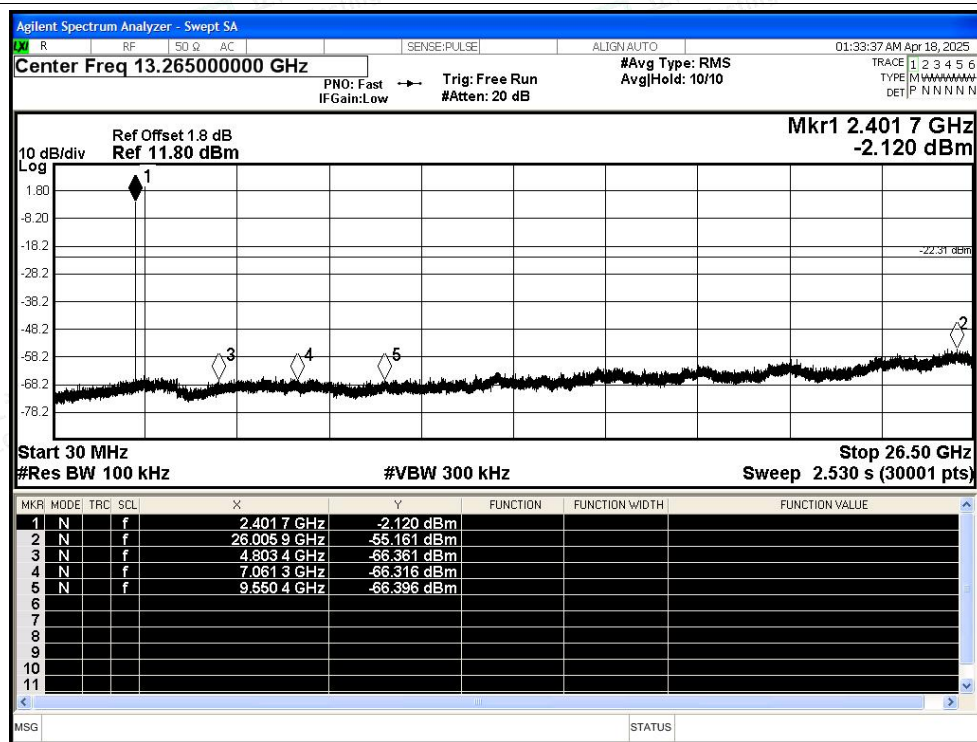


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

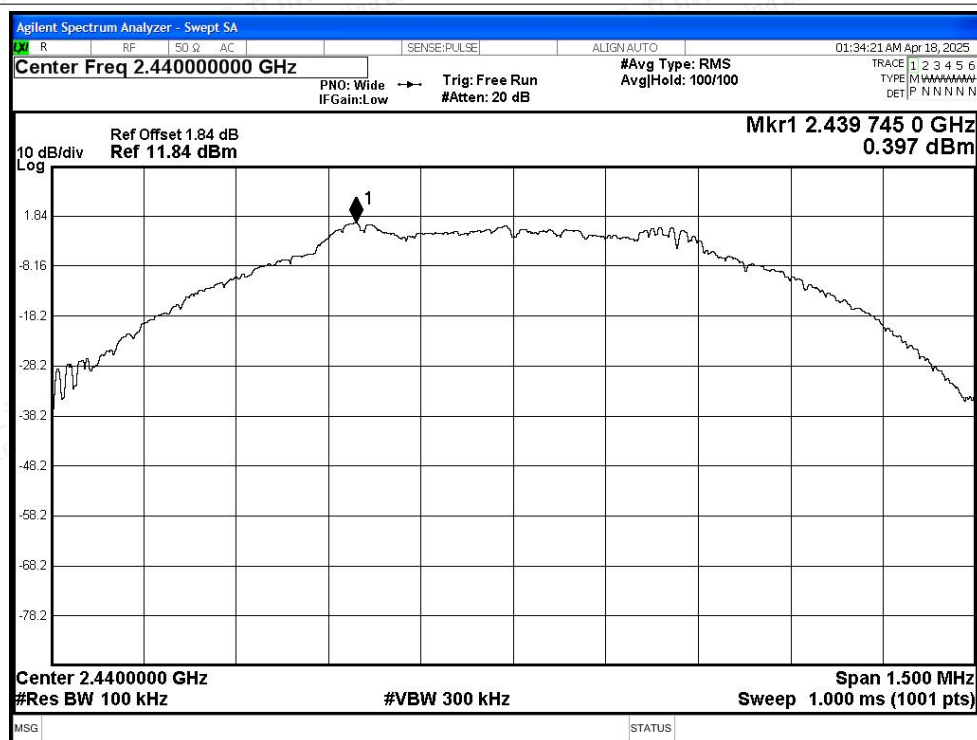
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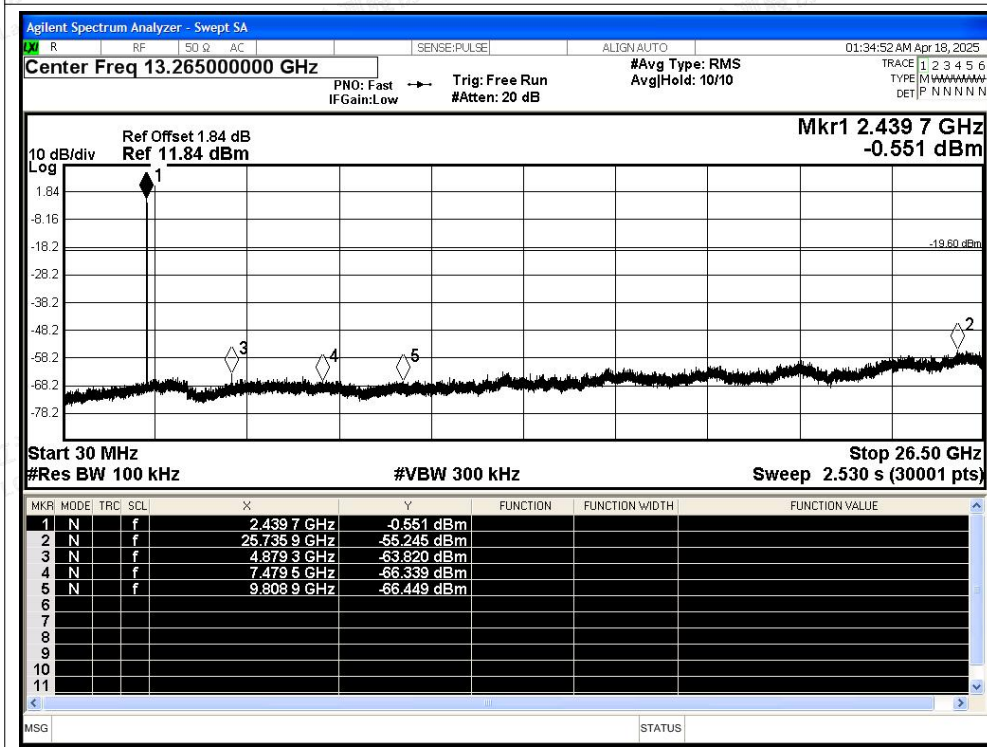
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Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



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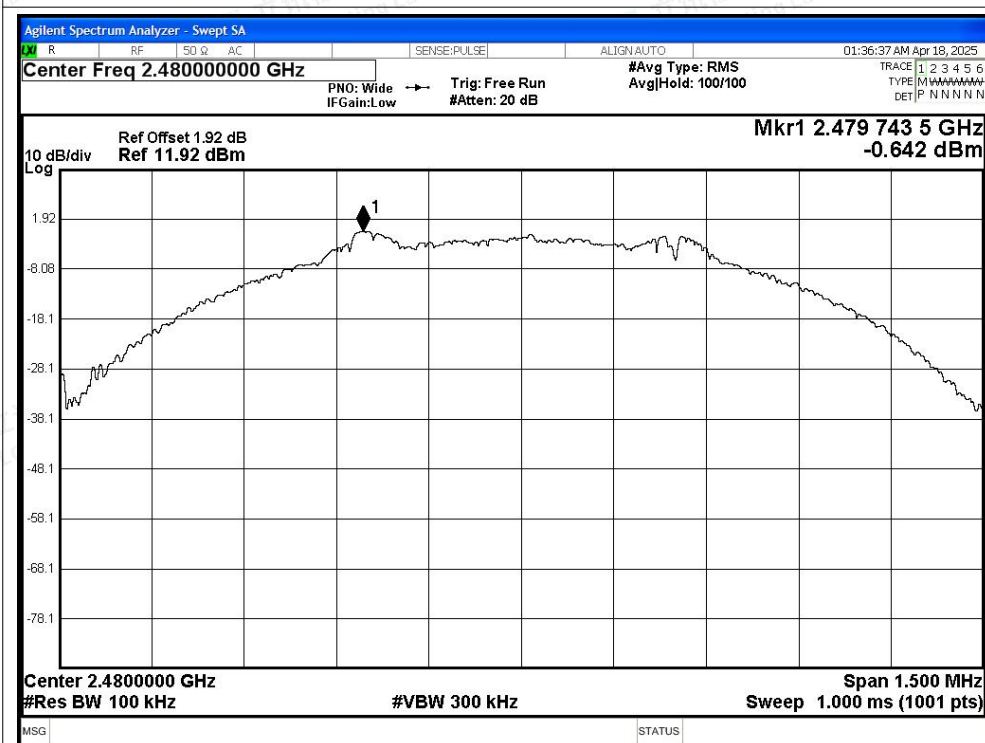
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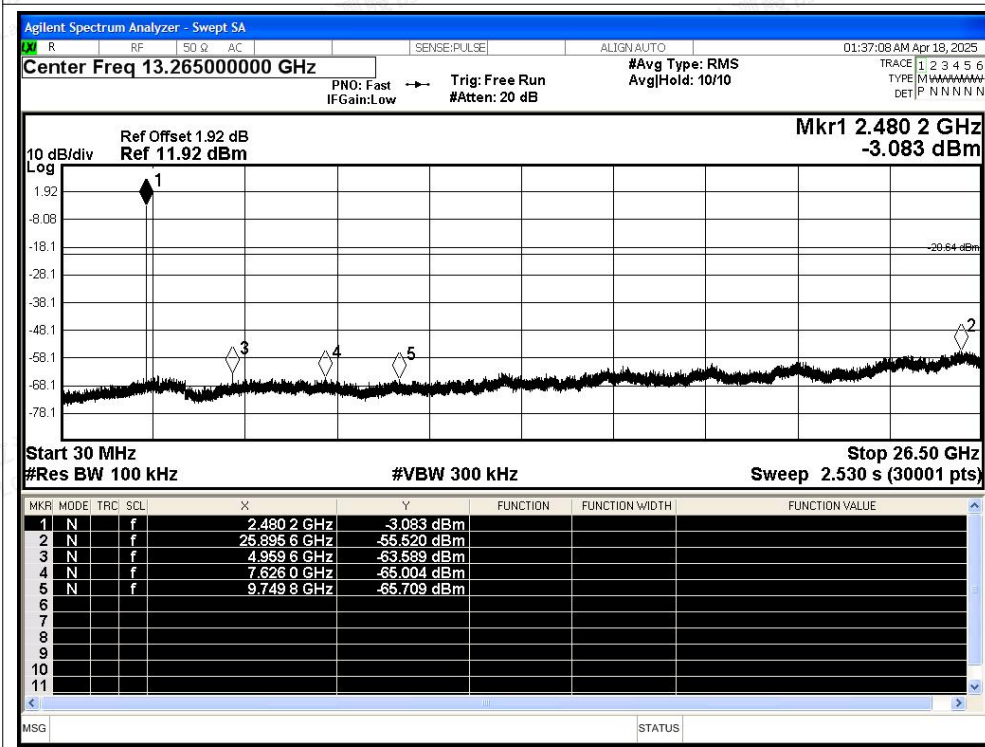
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Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



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A.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	87.36	0.59	0.61
NVNT	BLE 1M	2440	Ant1	87.39	0.59	0.61
NVNT	BLE 1M	2480	Ant1	87.39	0.59	0.61

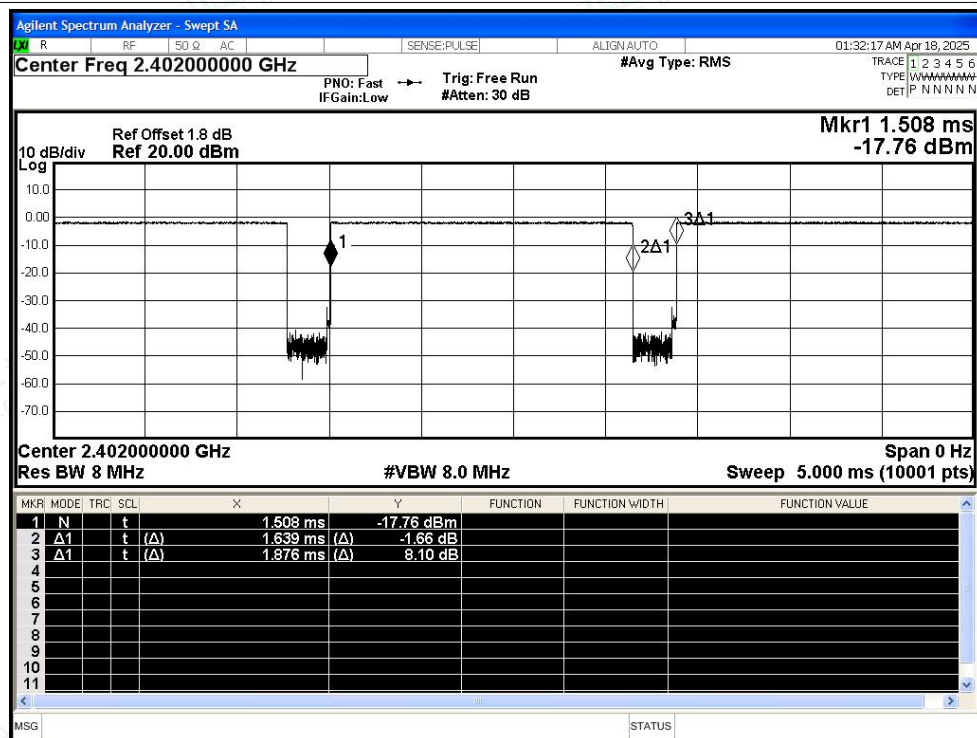


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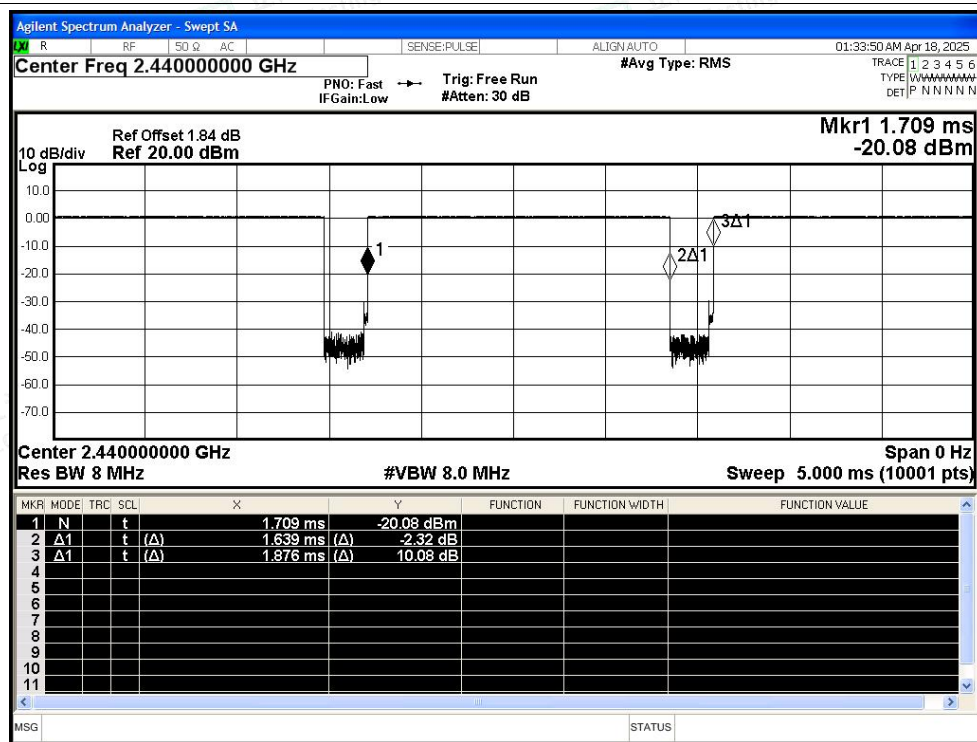


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1

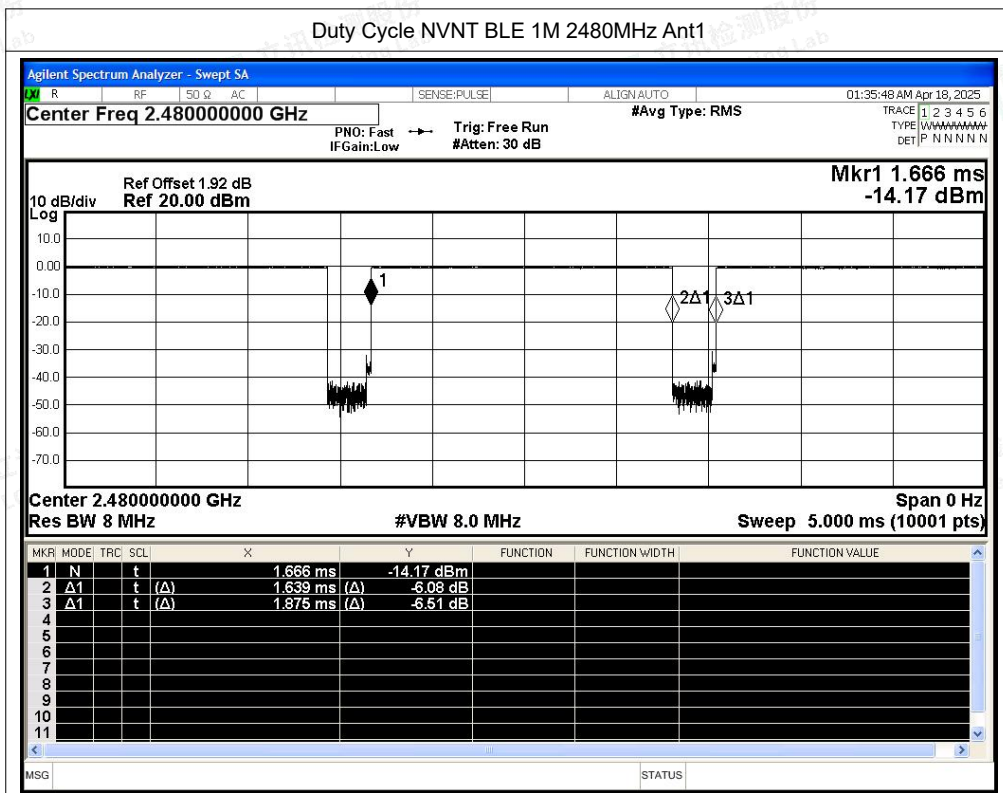


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A.7 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1M	2402	Ant1	2310	-49.68	2	-	47.58	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-58.9	2	0.59	38.95	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2365.296	-48.17	2	-	49.09	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2375.952	-58.27	2	0.59	39.58	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-49.99	2	-	47.27	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-58.38	2	0.59	39.47	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-50.46	2	-	46.8	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-57.78	2	0.59	40.07	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2484.232	-45.15	2	-	52.11	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2484.664	-57.65	2	0.59	40.2	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-49.46	2	-	47.8	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-58.23	2	0.59	39.62	Average	54	Pass



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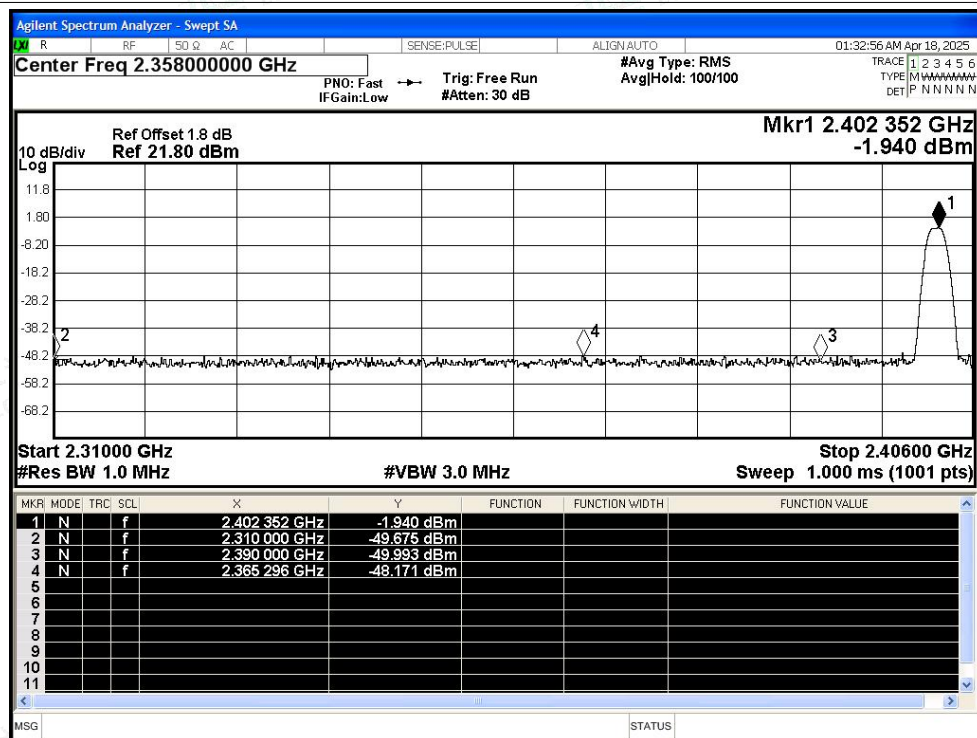
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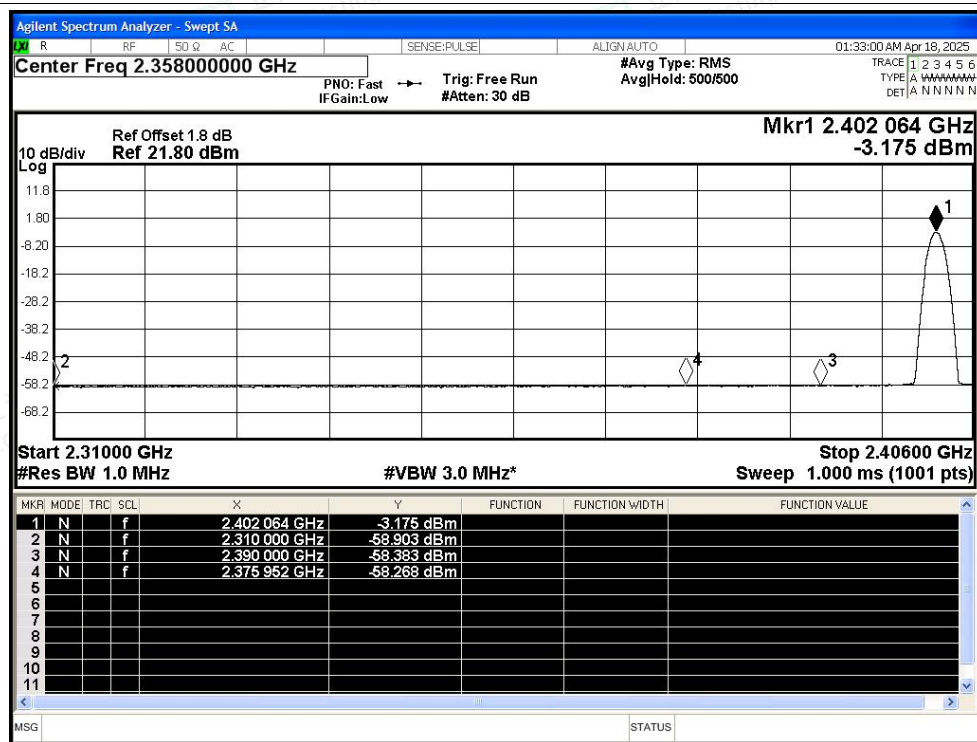


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



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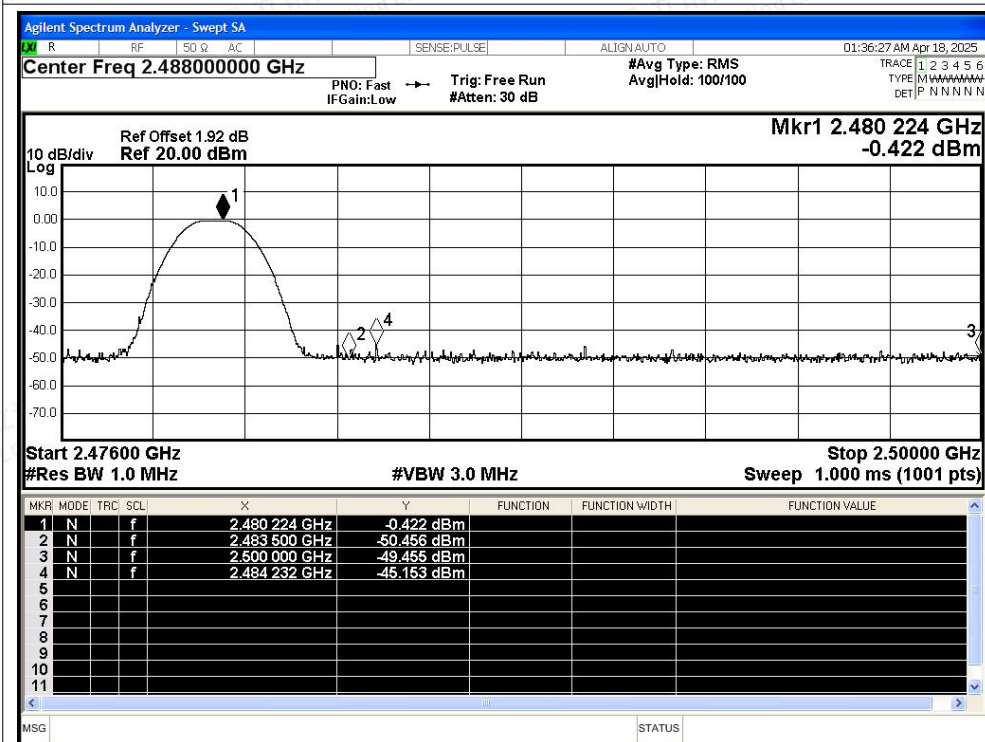
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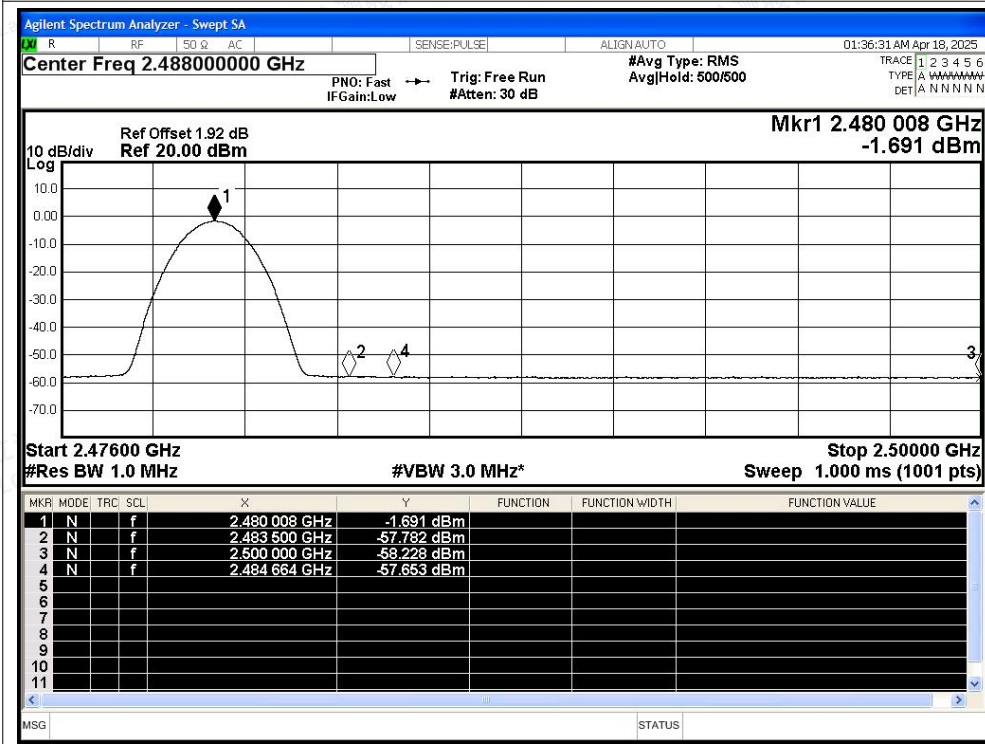
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Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



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