



Appendix A

RF Test Data for BLE (Conducted Measurement)

Product Name: LED Camping Light

Test Model: LY01-RGB

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Luo
Supervised by:	Nick Peng



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A.1 -6dB Bandwidth

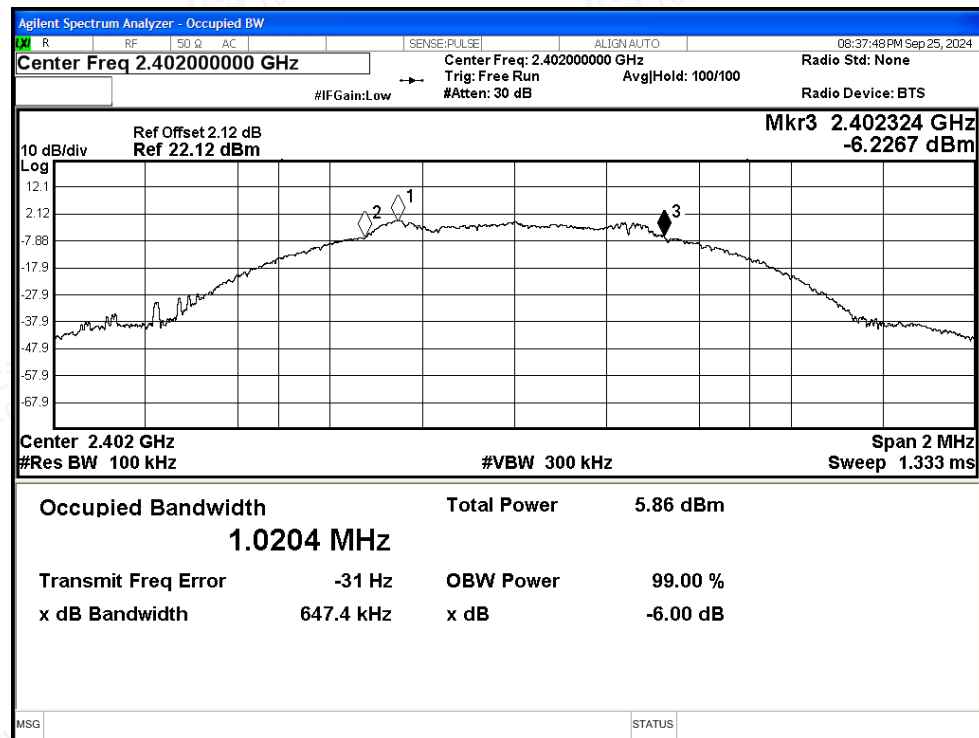
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.647	≥ 0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.655	≥ 0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.659	≥ 0.5	Pass



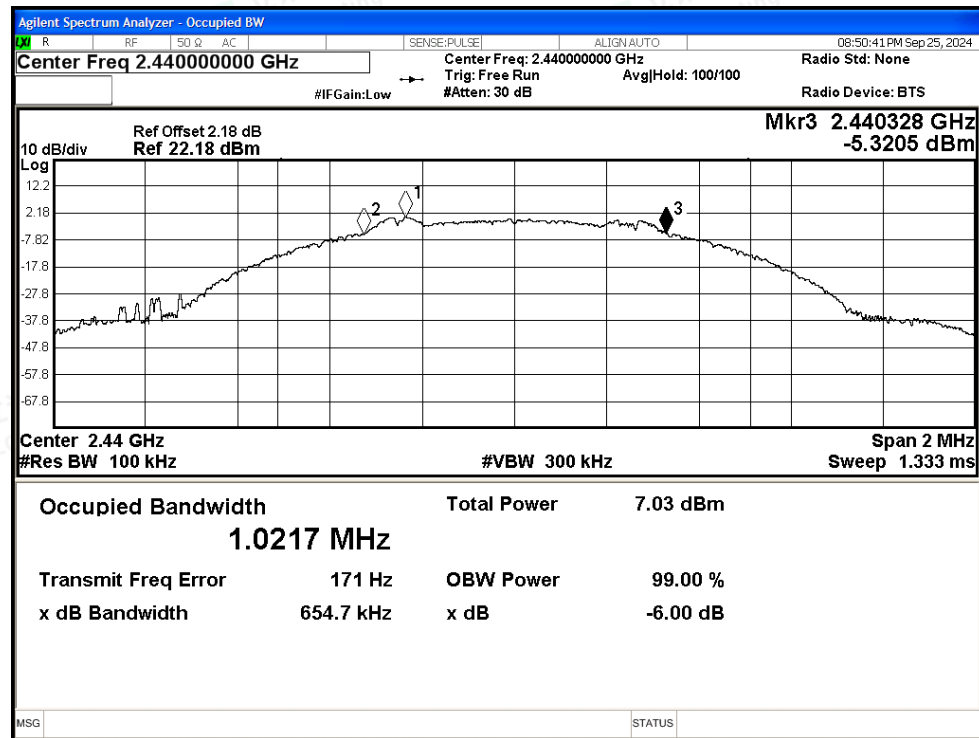


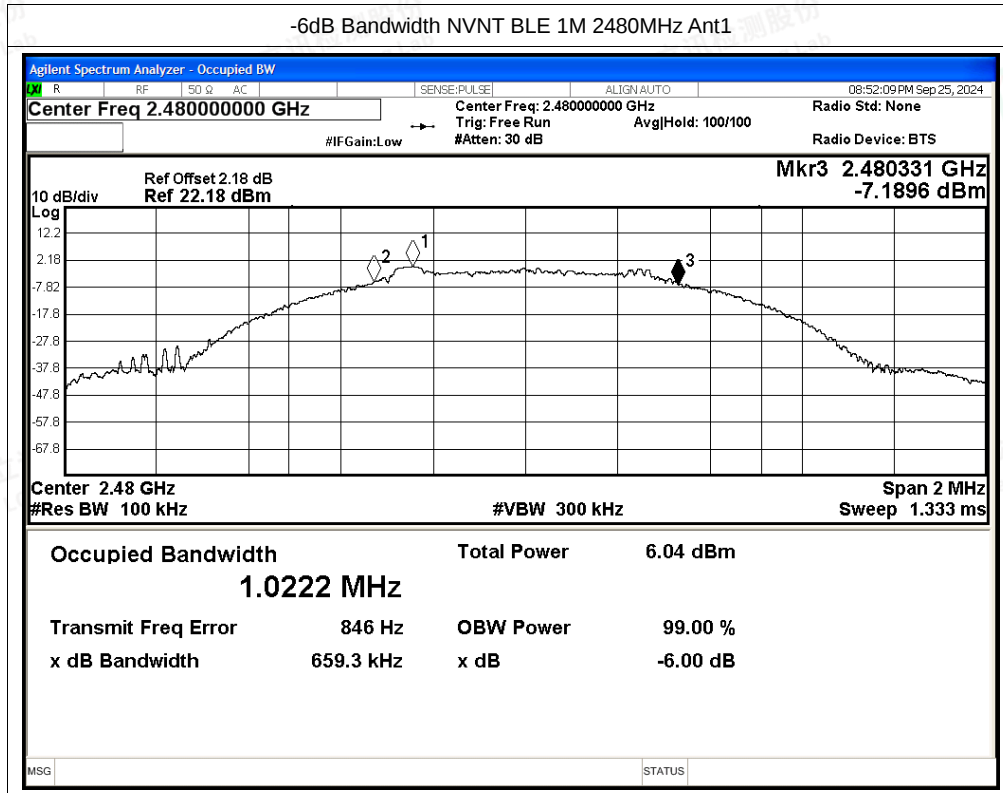
Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1







A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-0.04	30	Pass
NVNT	BLE 1M	2440	Ant1	1.2	30	Pass
NVNT	BLE 1M	2480	Ant1	0.17	30	Pass

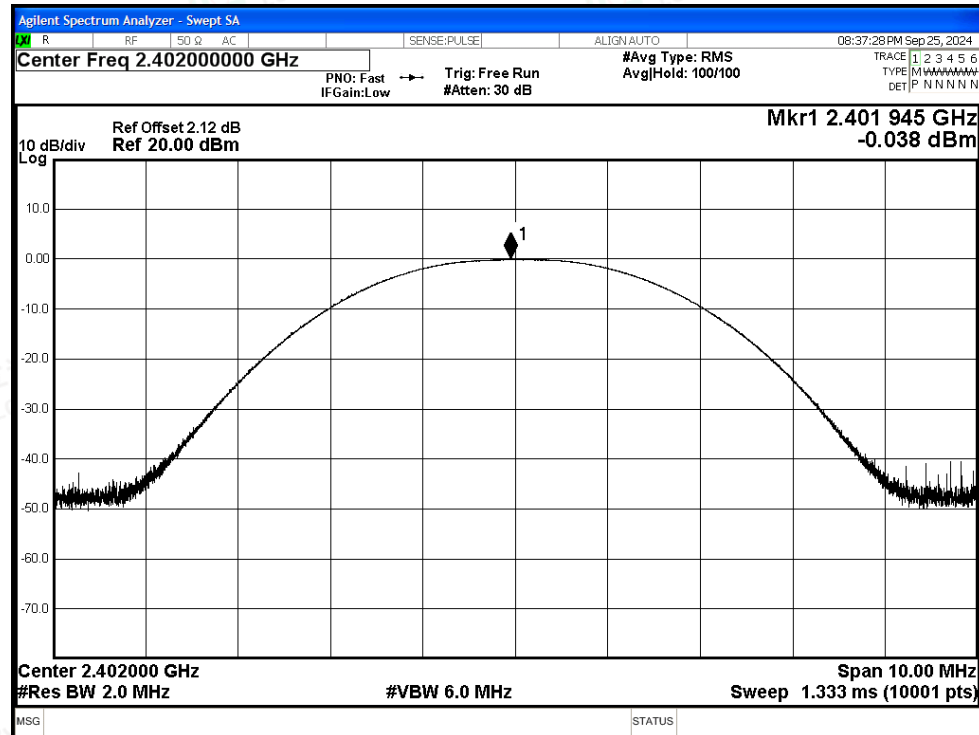


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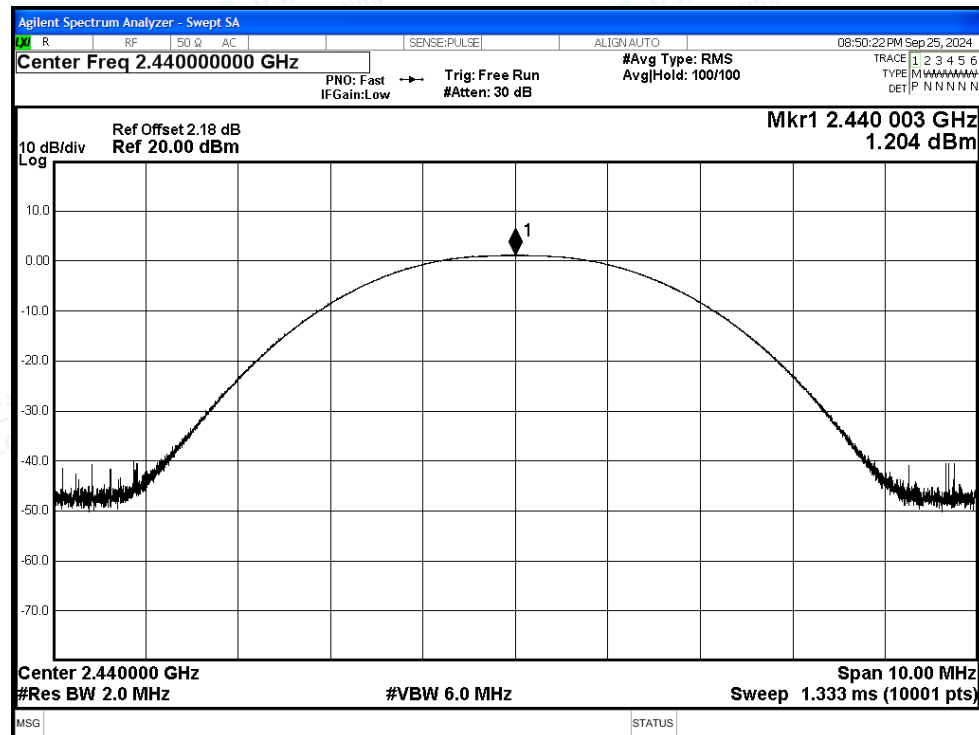


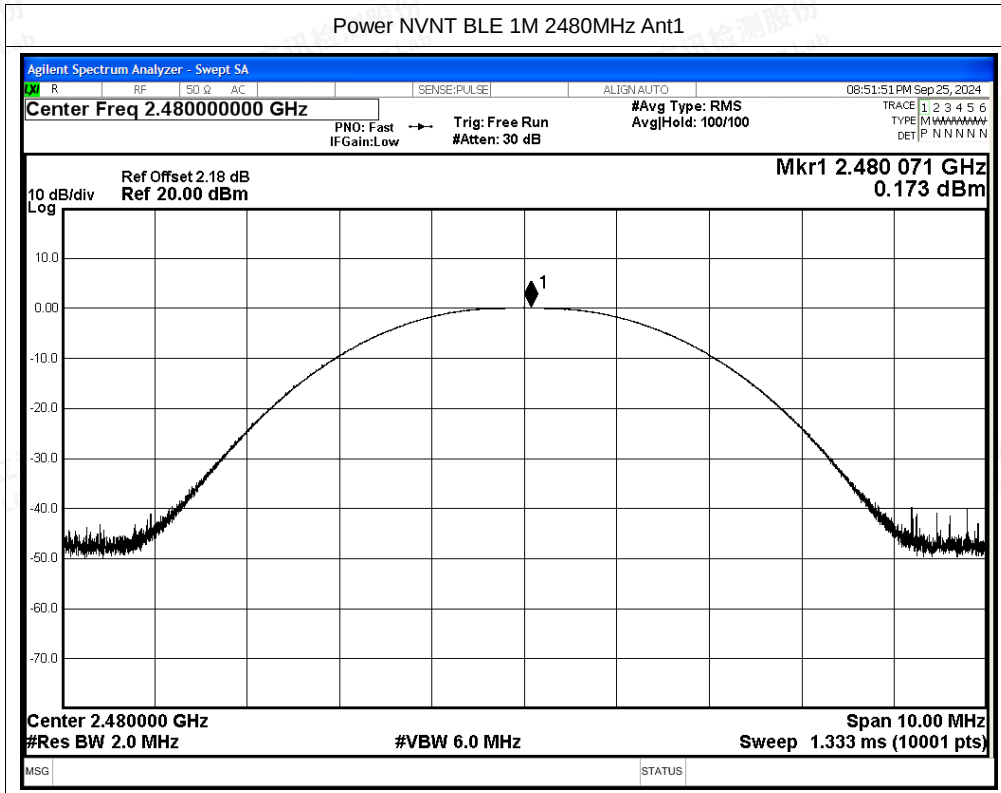
Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1







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	-16.75	8	Pass
NVNT	BLE 1M	2440	Ant1	-15.73	8	Pass
NVNT	BLE 1M	2480	Ant1	-16.73	8	Pass

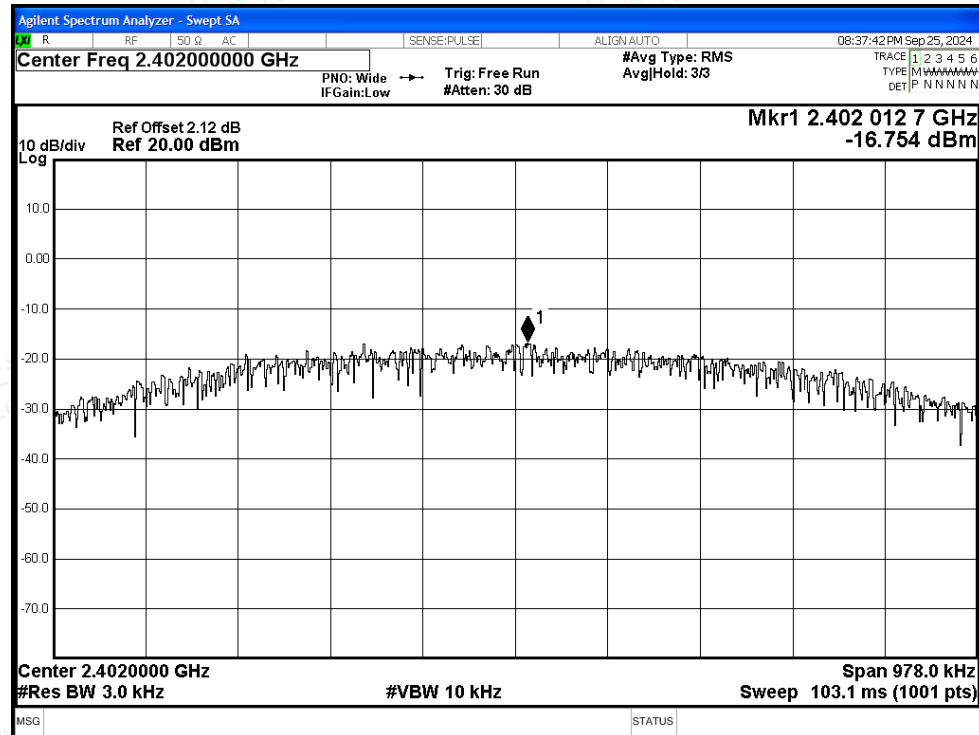


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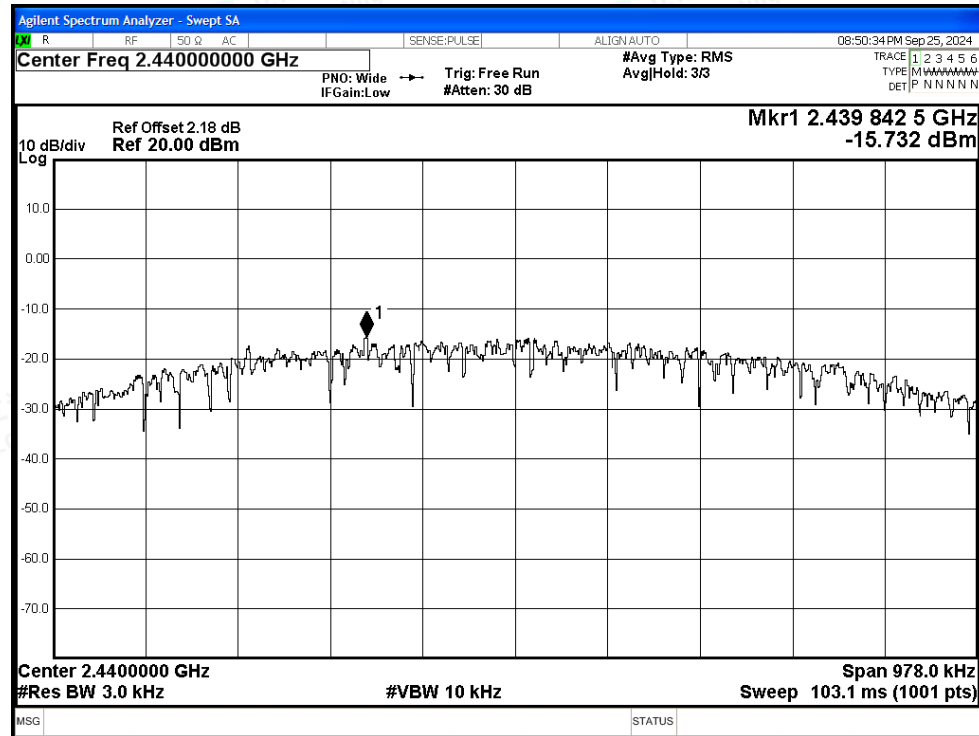


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1

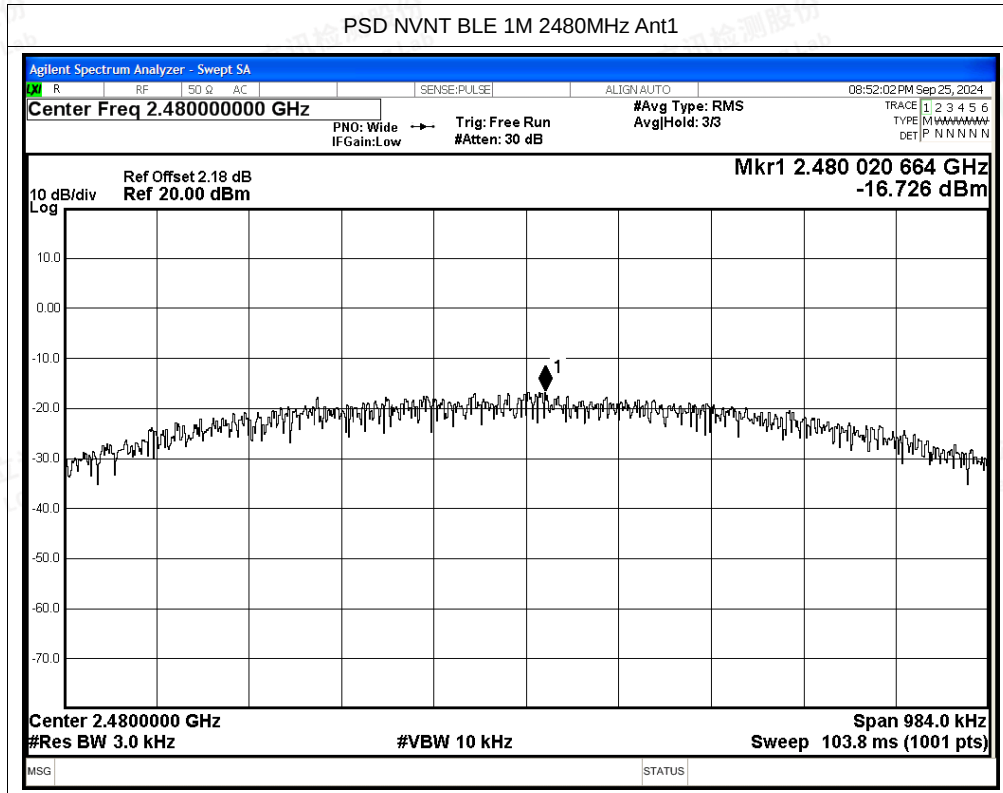


PSD NVNT BLE 1M 2440MHz Ant1





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A.4 Band Edge

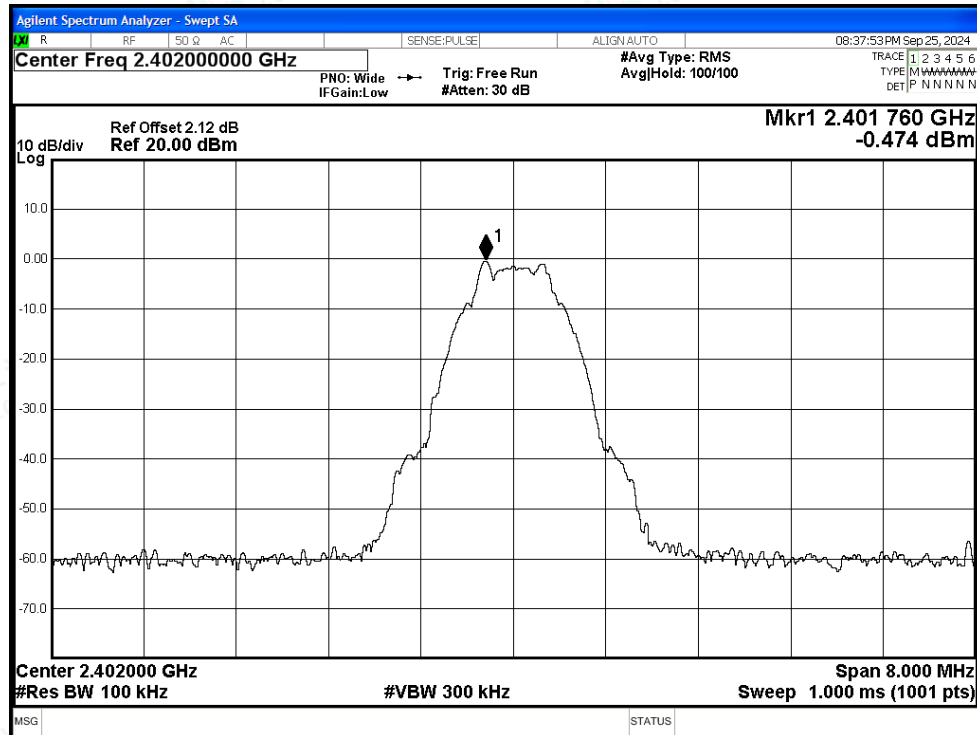
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-56.59	-20	Pass
NVNT	BLE 1M	2480	Ant1	-56.51	-20	Pass



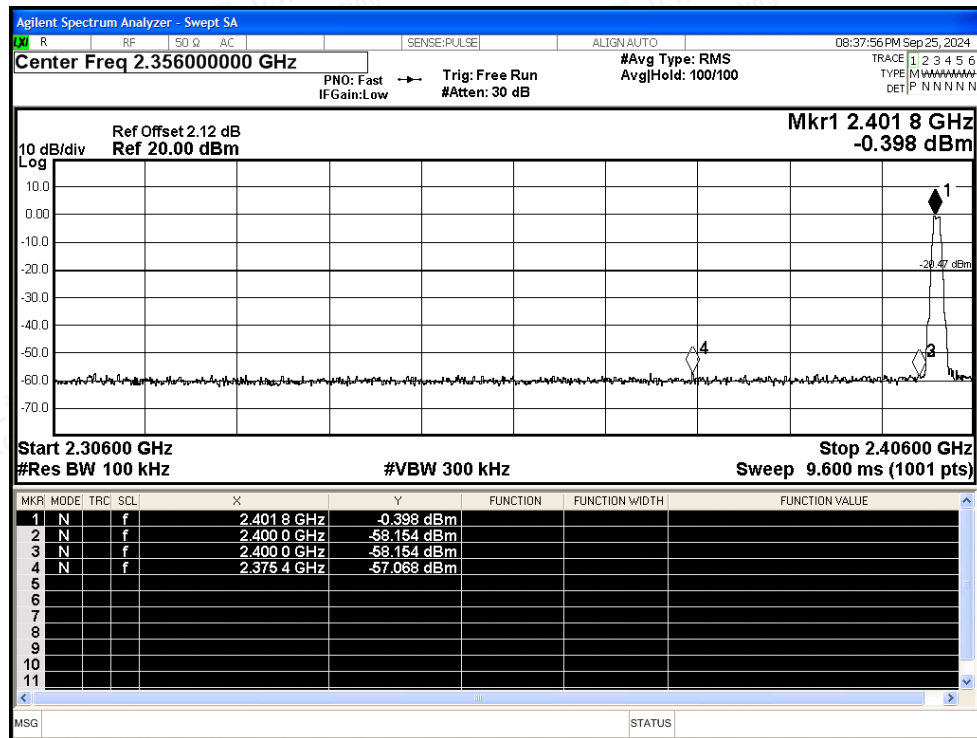
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Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



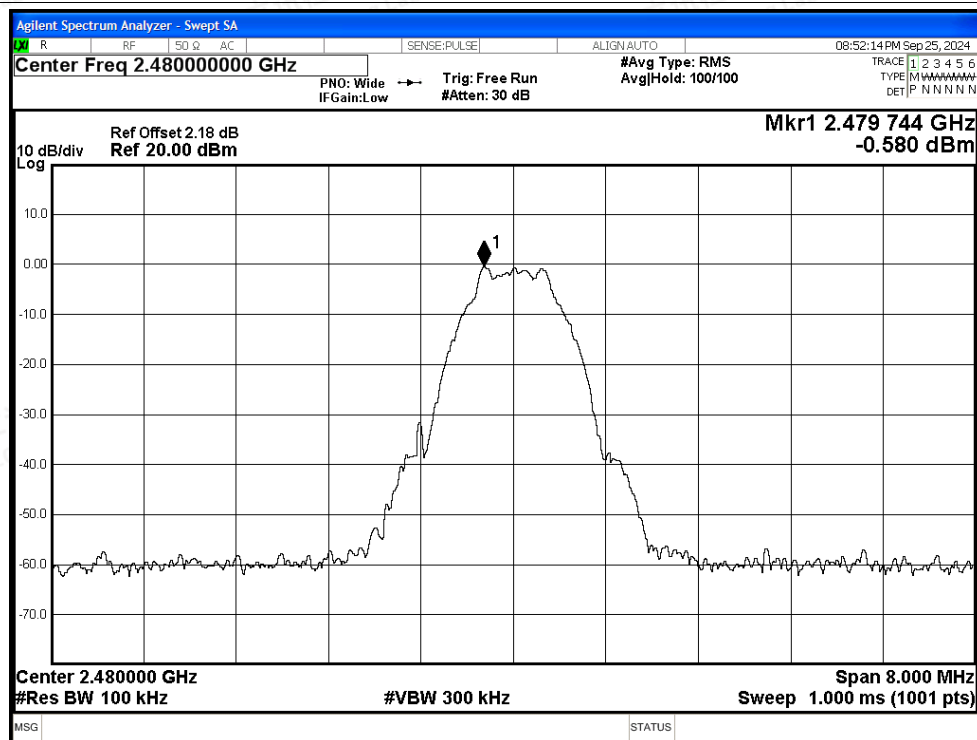
Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



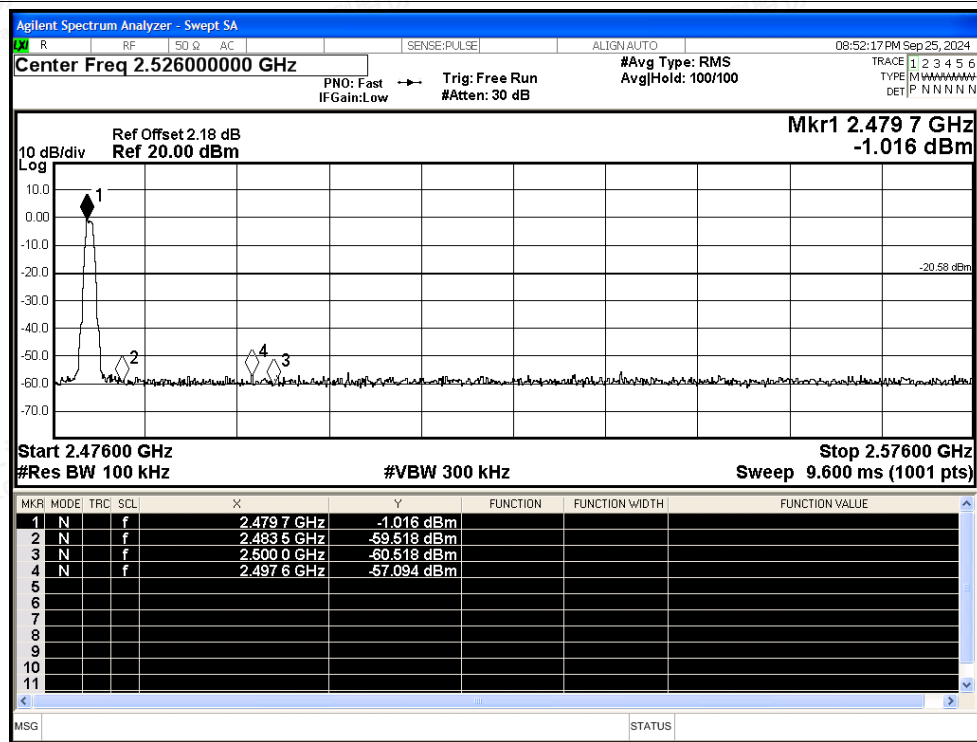


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Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



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	-54.64	-20	Pass
NVNT	BLE 1M	2440	Ant1	-56.17	-20	Pass
NVNT	BLE 1M	2480	Ant1	-54.32	-20	Pass



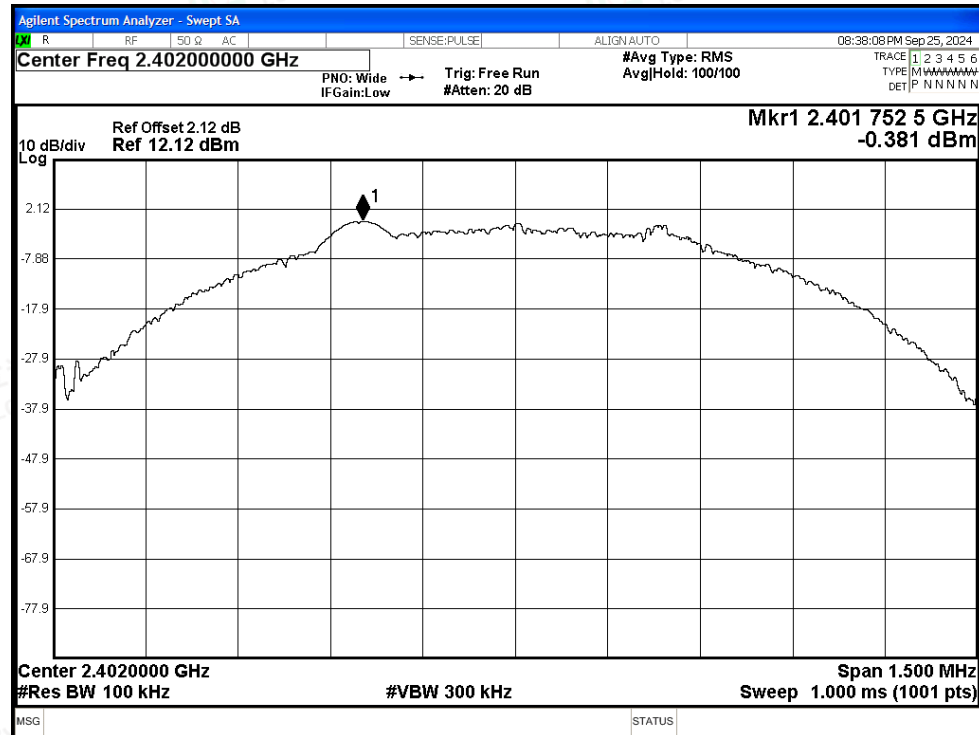
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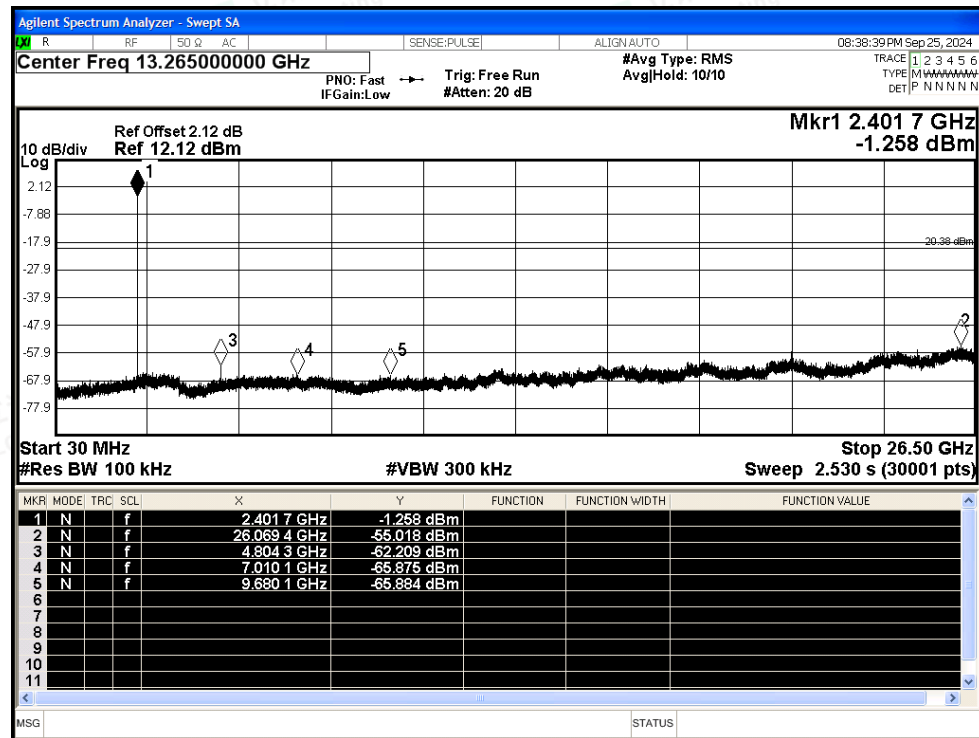
LCSA0104191EA

Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



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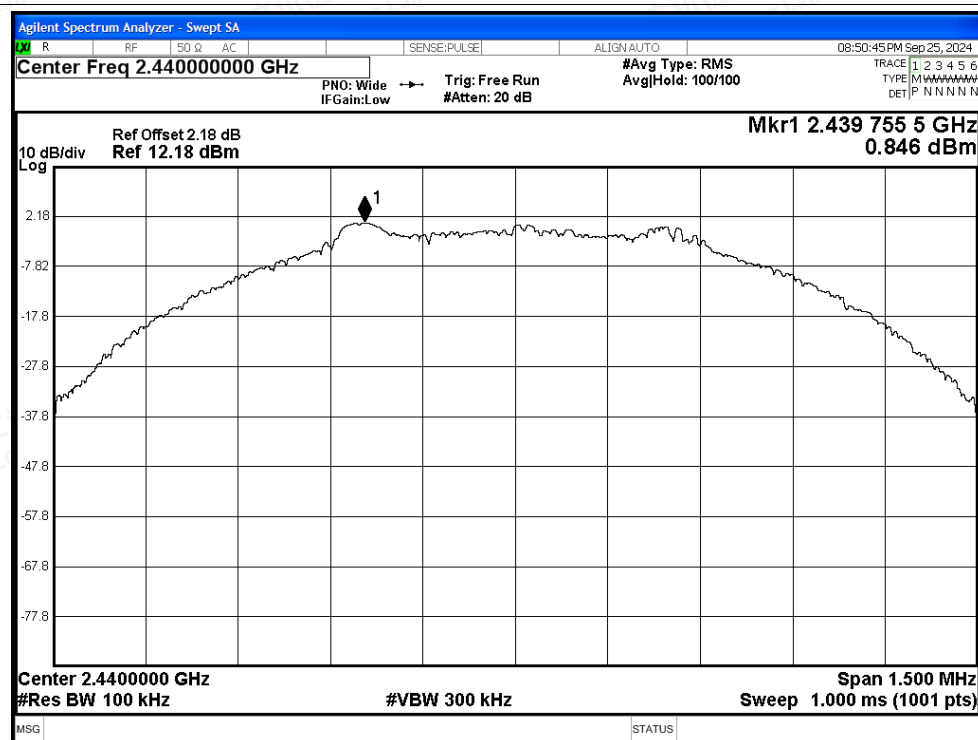
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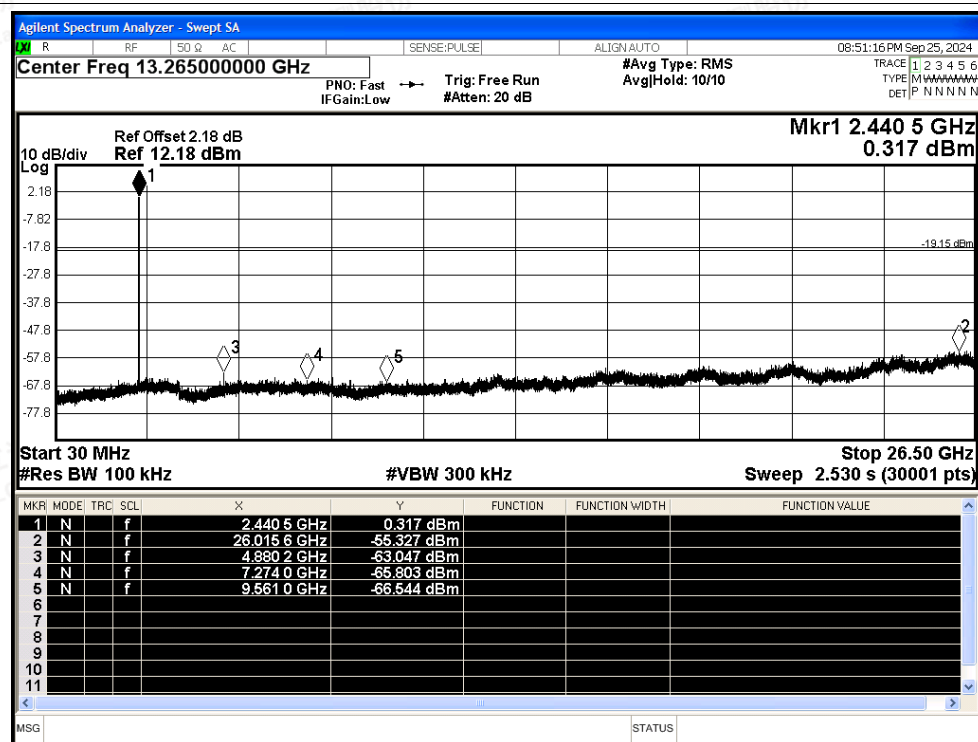


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Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



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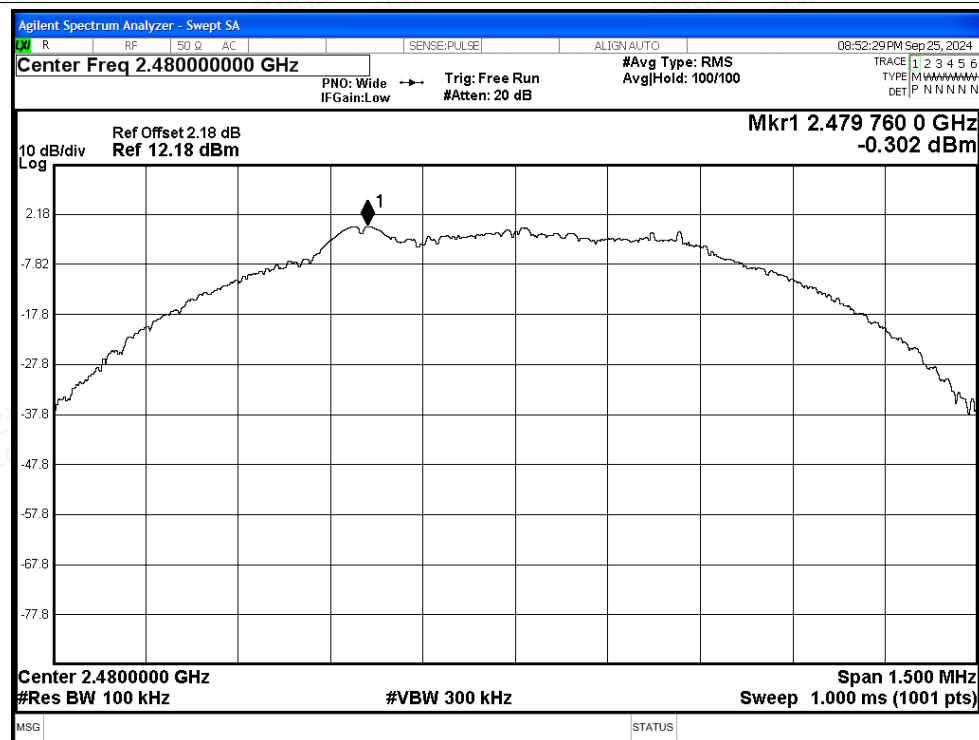
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Scan code to check authenticity

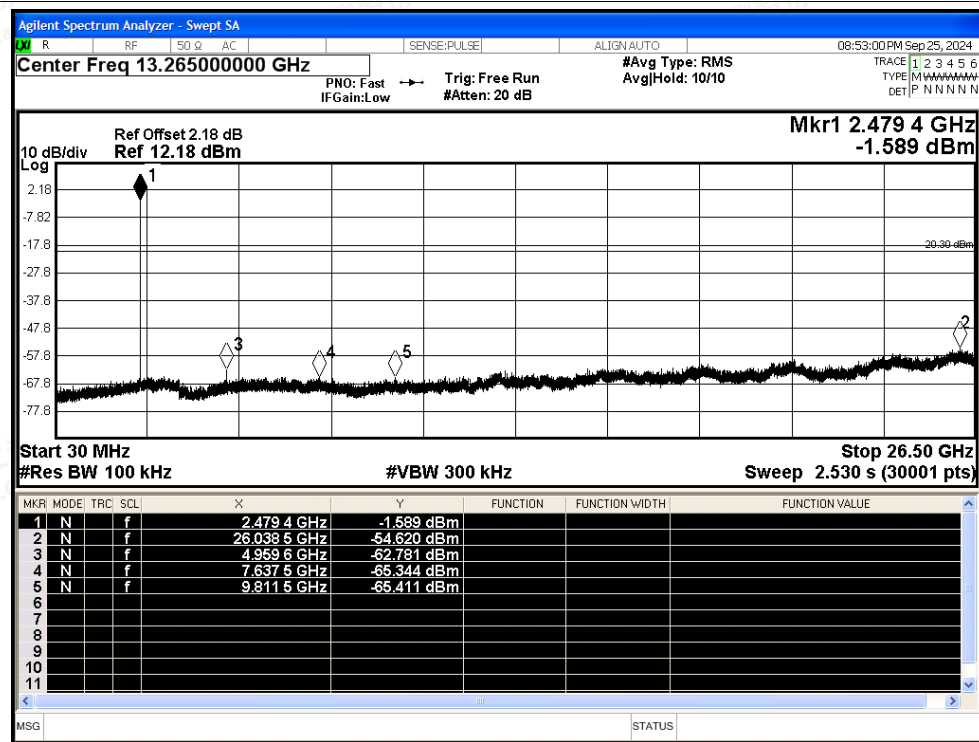


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Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission





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A.6 Duty Cycle

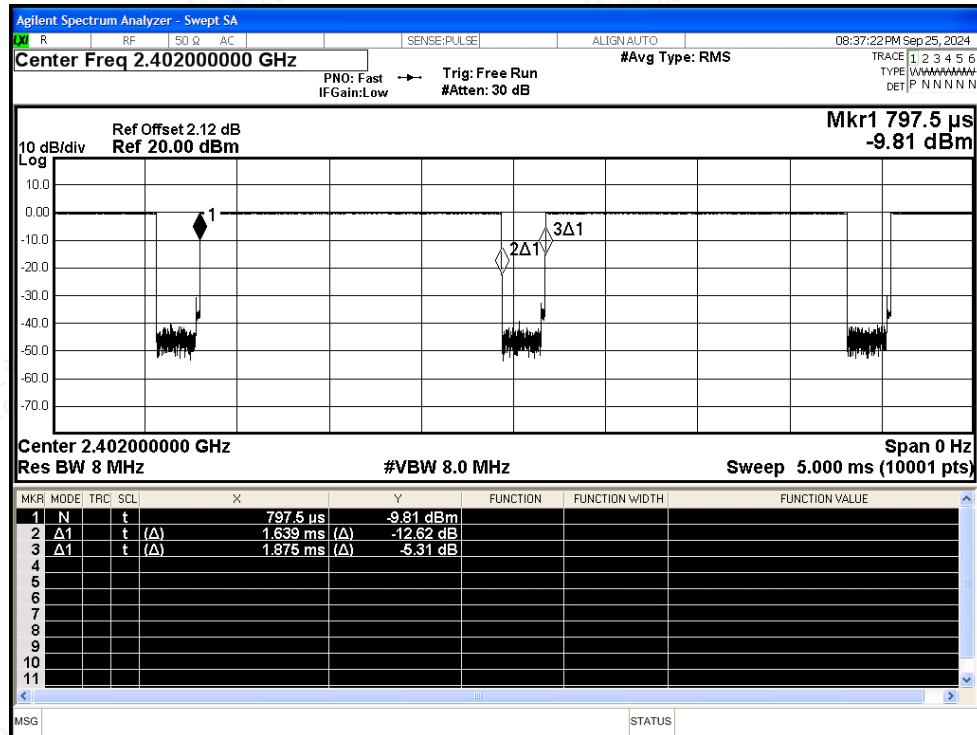
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	87.39	0.59	0.61
NVNT	BLE 1M	2440	Ant1	87.41	0.58	0.61
NVNT	BLE 1M	2480	Ant1	87.39	0.59	0.61



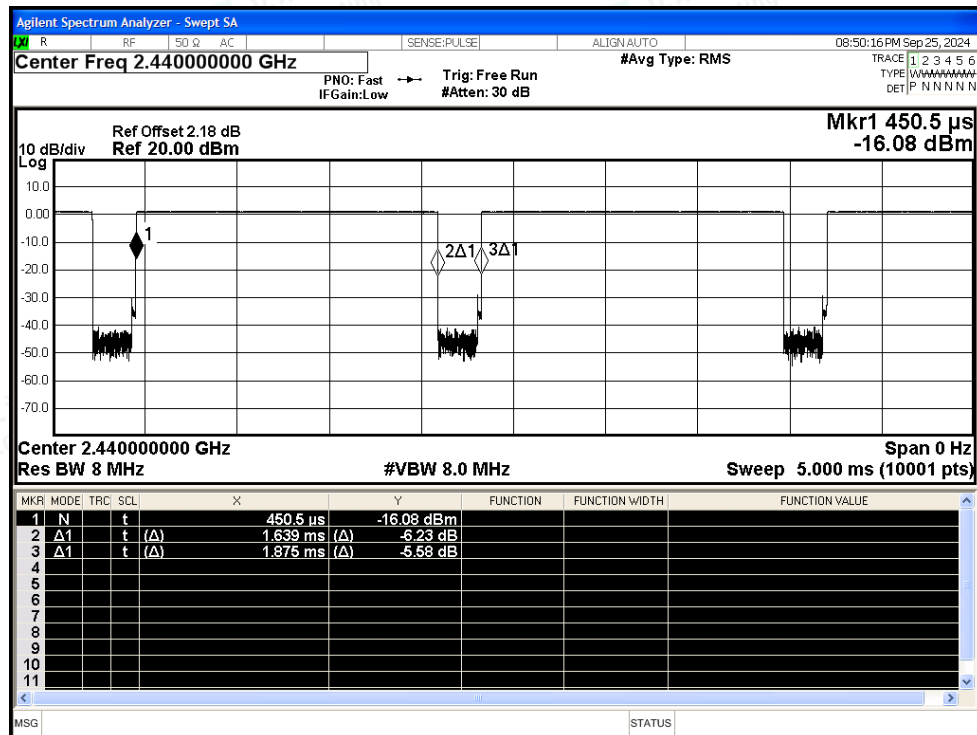
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Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1

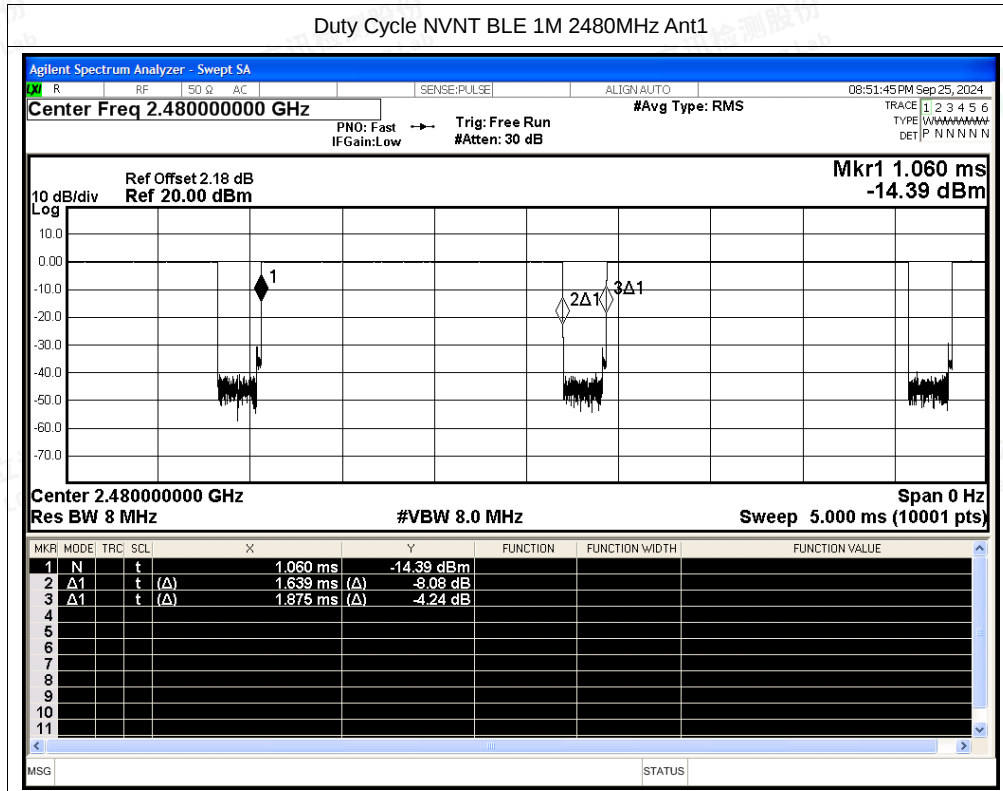


Duty Cycle NVNT BLE 1M 2440MHz Ant1





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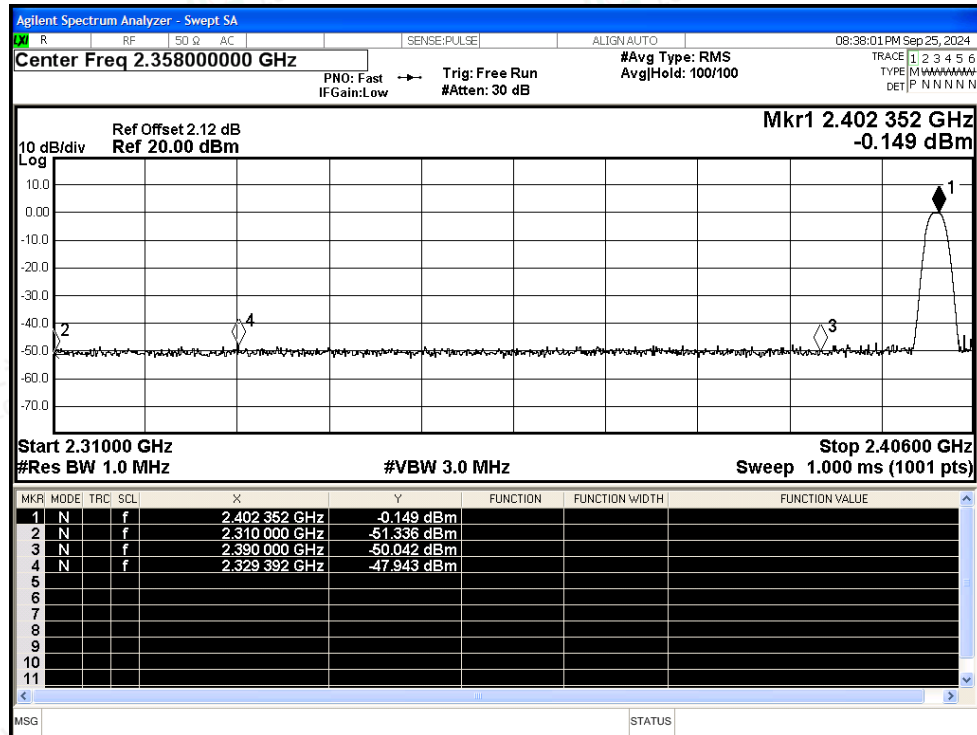
A.7 Restrict Band

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	-51.34	4.51	-	48.43	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-58.86	4.51	0.59	41.50	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2329.392	-47.94	4.51	-	51.83	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2366.928	-57.63	4.51	0.59	42.73	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-50.04	4.51	-	49.73	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-58.53	4.51	0.59	41.83	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-50.26	4.51	-	49.51	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-57.83	4.51	0.59	42.53	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2484.016	-44.36	4.51	-	55.41	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.704	-57	4.51	0.59	43.36	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-50.26	4.51	-	49.51	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-57.98	4.51	0.59	42.38	Average	54	Pass

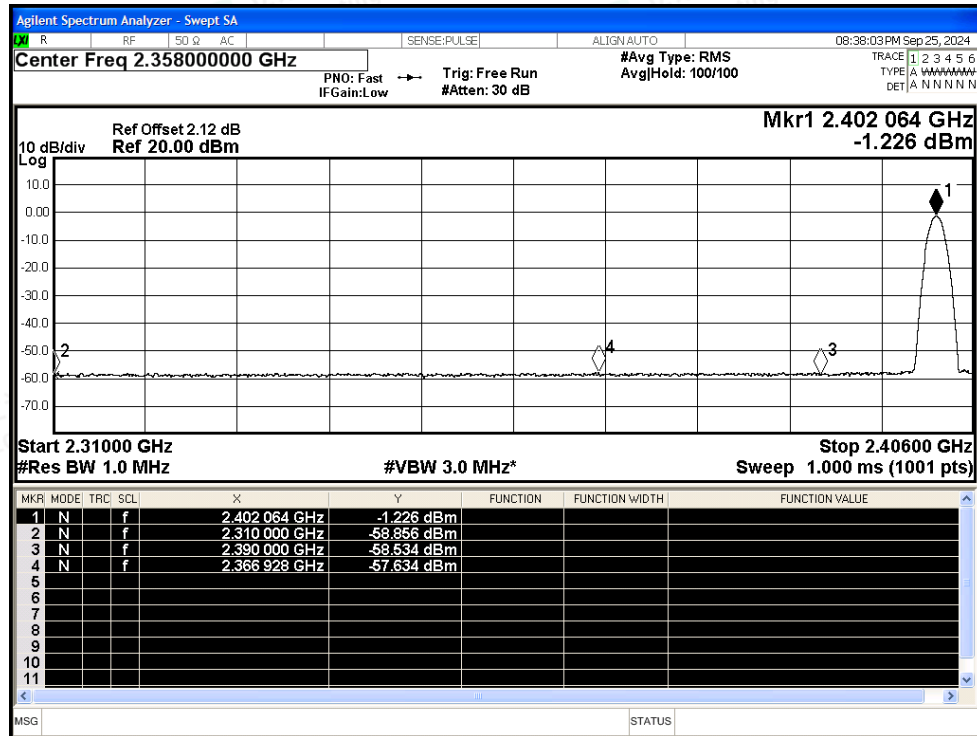


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



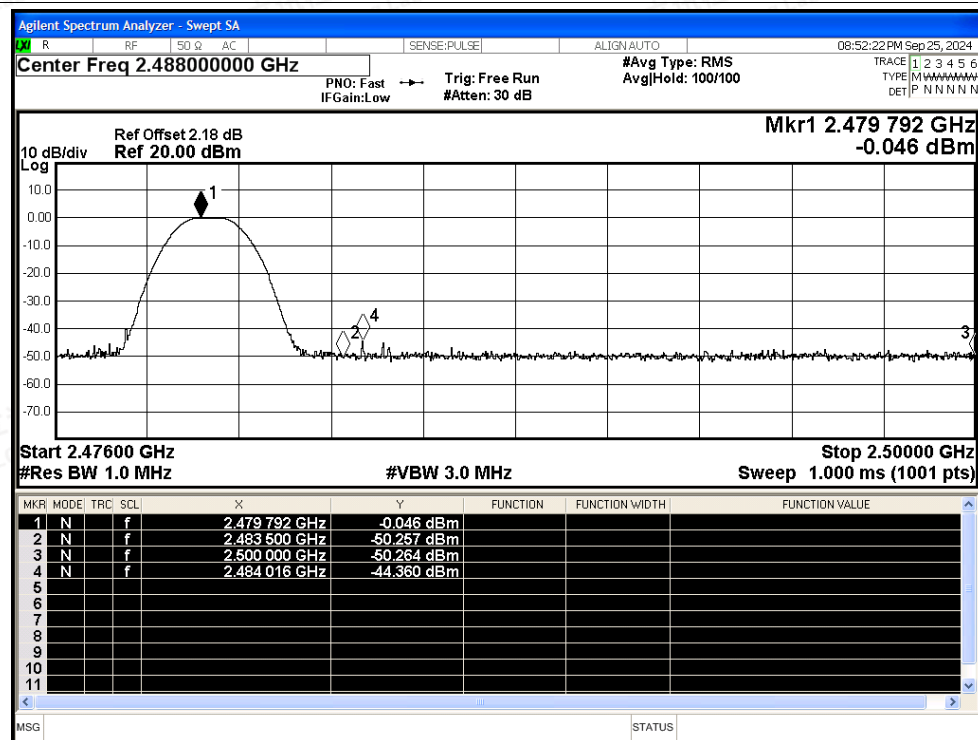
Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



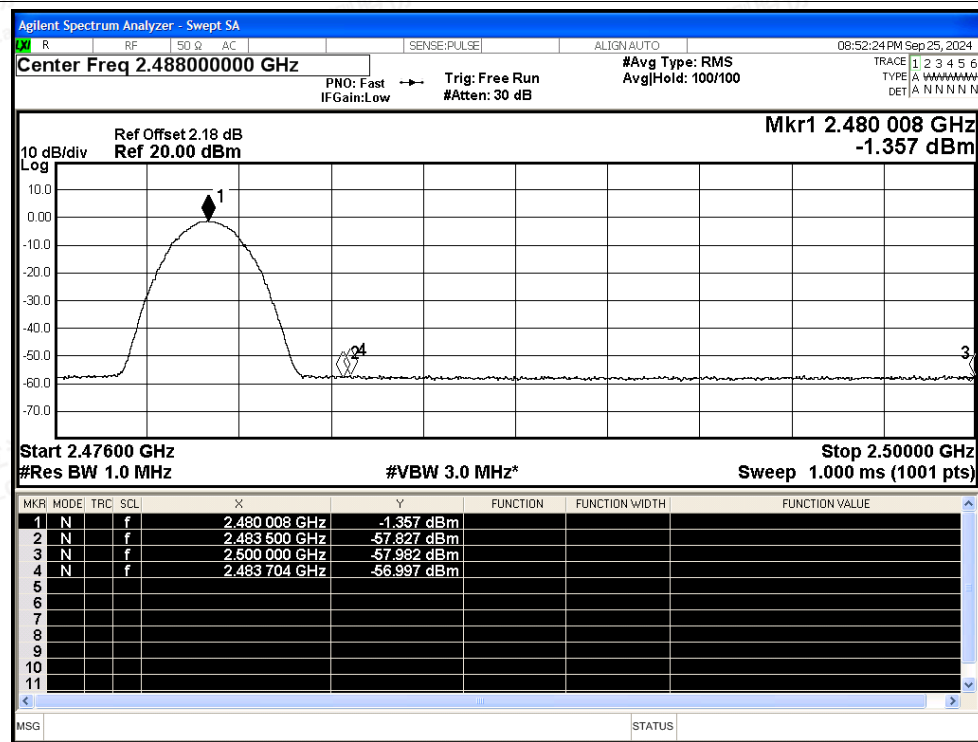


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Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



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