



Appendix A

RF Test Data for 2.4G (Conducted Measurement)

Product Name: Top Race Drone Clip Remote Control Object Launcher, Release TR-66

Test Model: TOPR-000046

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

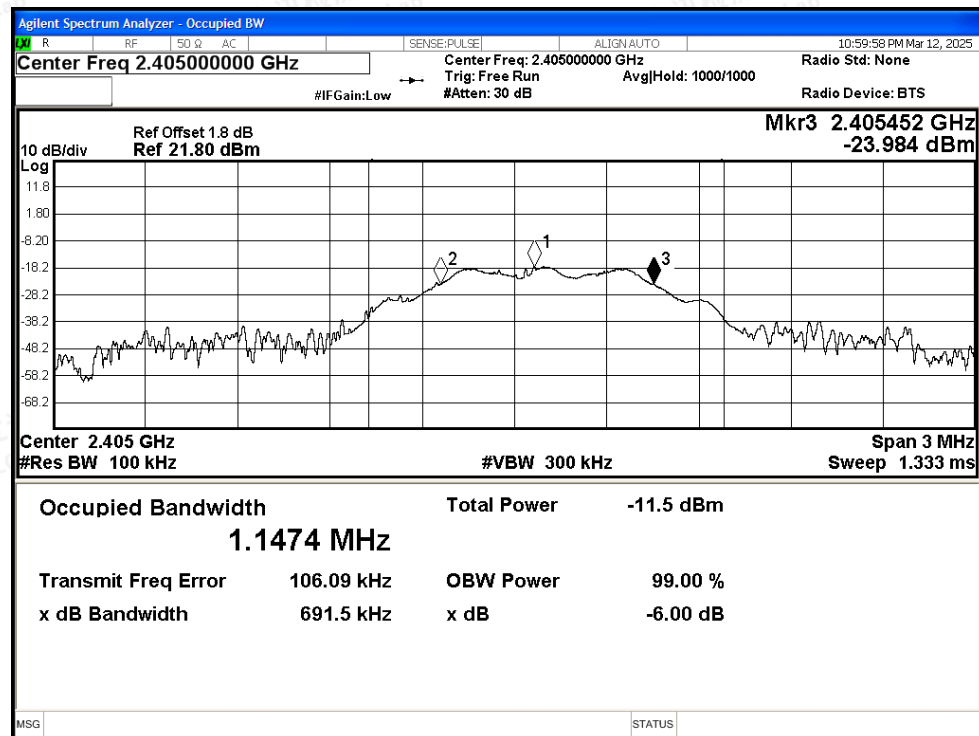
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	2.4G	2405	Ant1	0.691	≥ 0.5	Pass
NVNT	2.4G	2440	Ant1	0.668	≥ 0.5	Pass
NVNT	2.4G	2475	Ant1	0.66	≥ 0.5	Pass



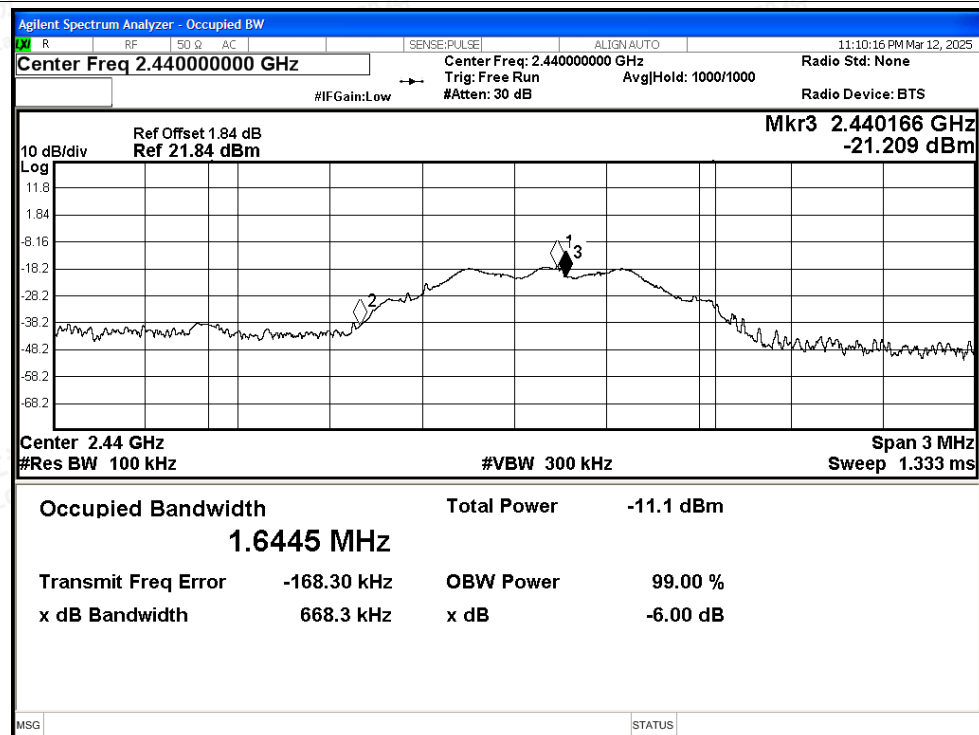


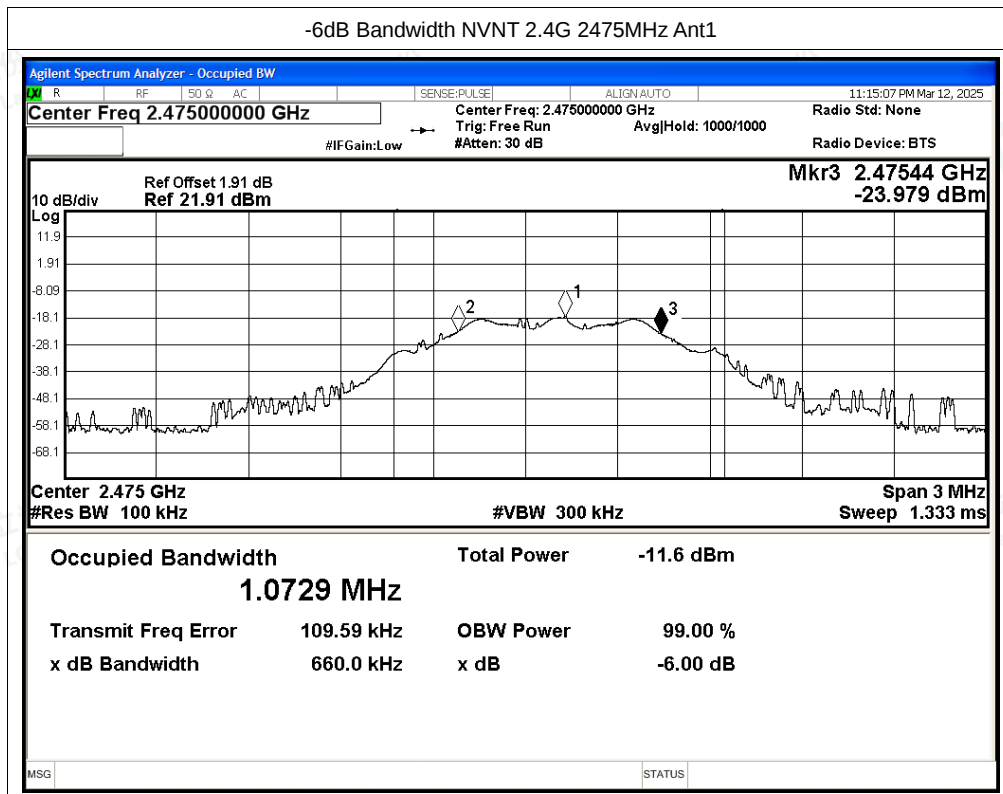
Test Graphs

-6dB Bandwidth NVNT 2.4G 2405MHz Ant1



-6dB Bandwidth NVNT 2.4G 2440MHz Ant1





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A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	2.4G	2405	Ant1	-14.31	30	Pass
NVNT	2.4G	2440	Ant1	-14.02	30	Pass
NVNT	2.4G	2475	Ant1	-14.47	30	Pass

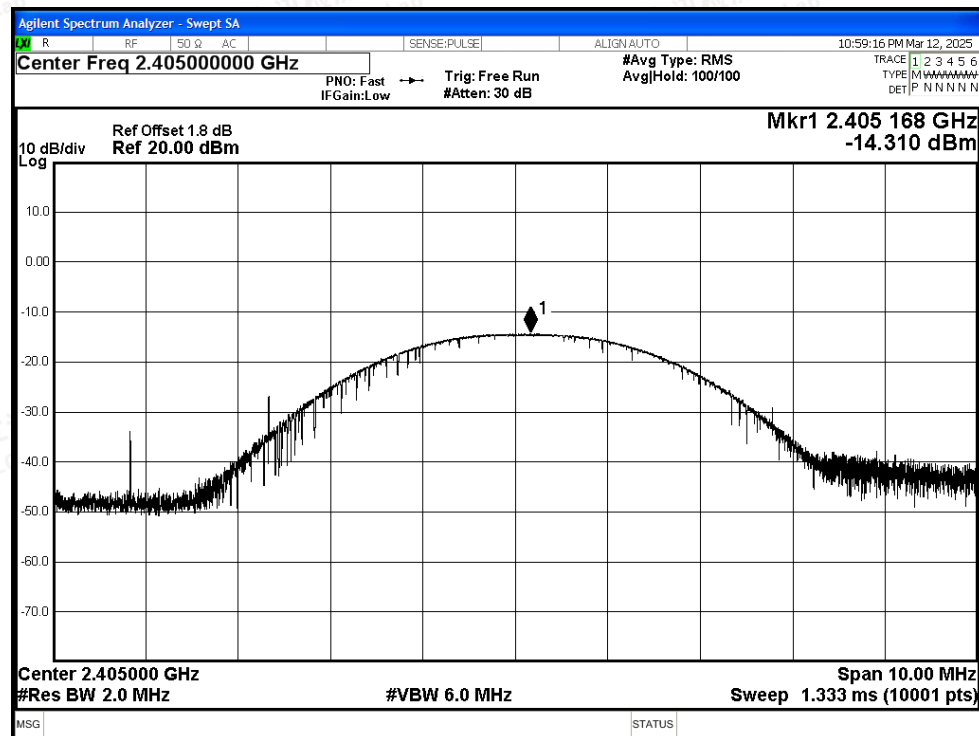


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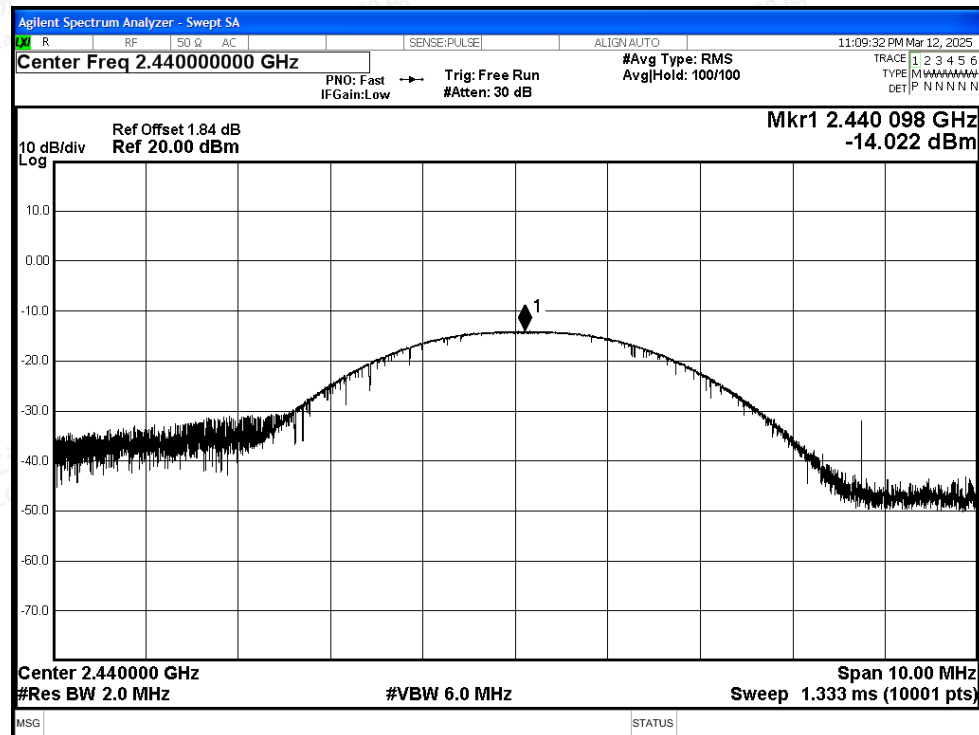


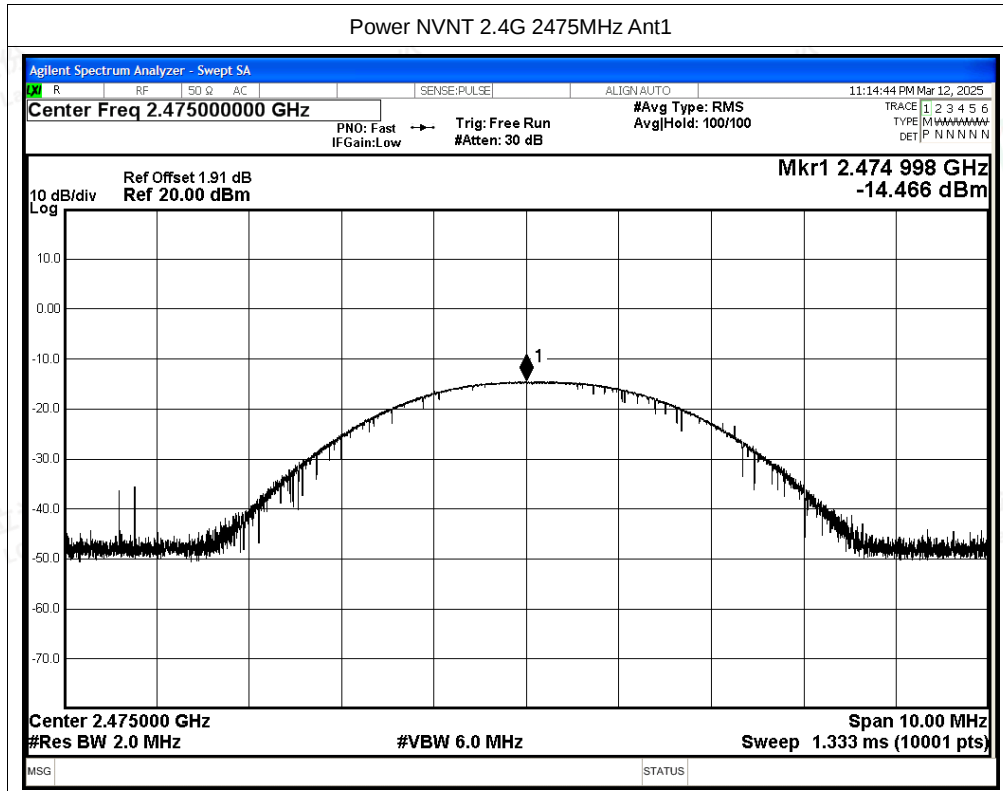
Test Graphs

Power NVNT 2.4G 2405MHz Ant1



Power NVNT 2.4G 2440MHz Ant1







A.3 Maximum Power Spectral Density Level

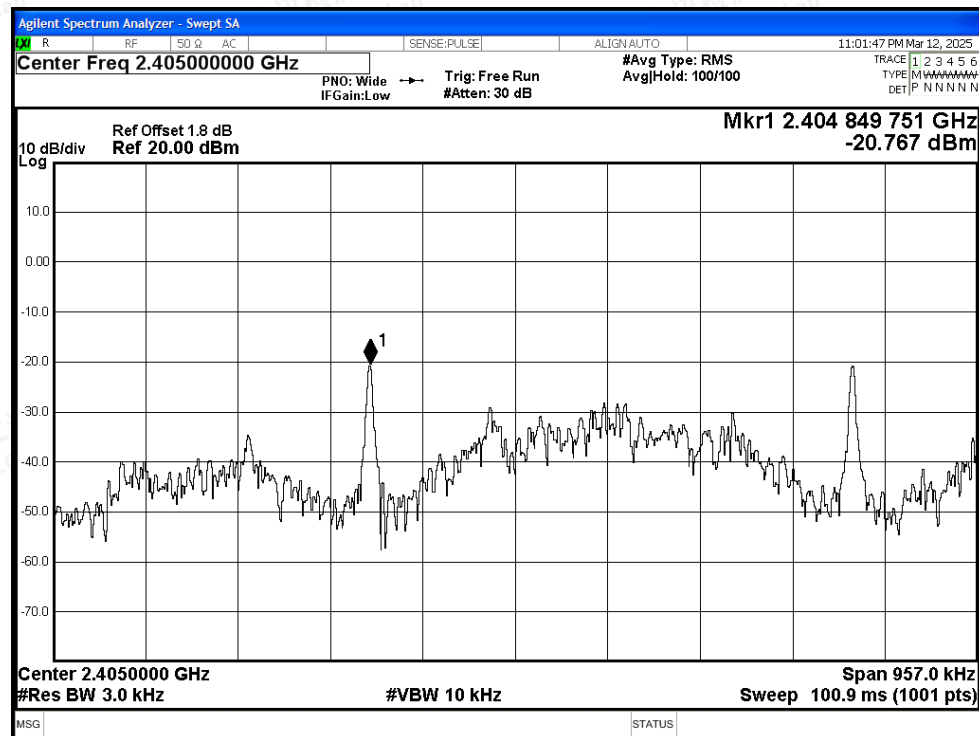
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	2.4G	2405	Ant1	-20.77	8	Pass
NVNT	2.4G	2440	Ant1	-20.44	8	Pass
NVNT	2.4G	2475	Ant1	-20.91	8	Pass



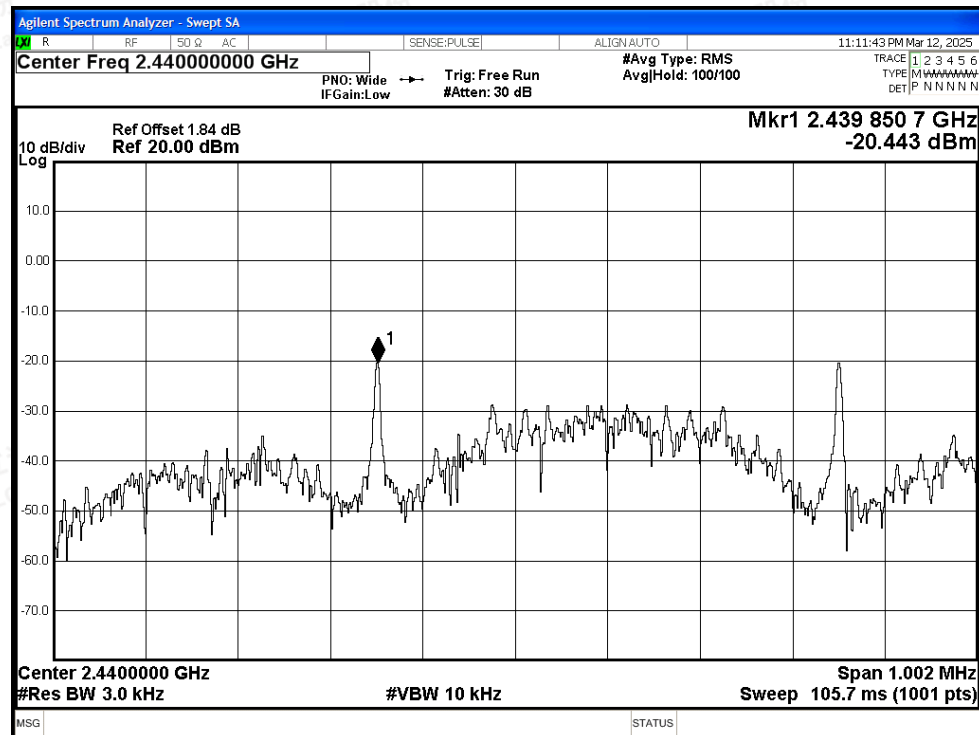


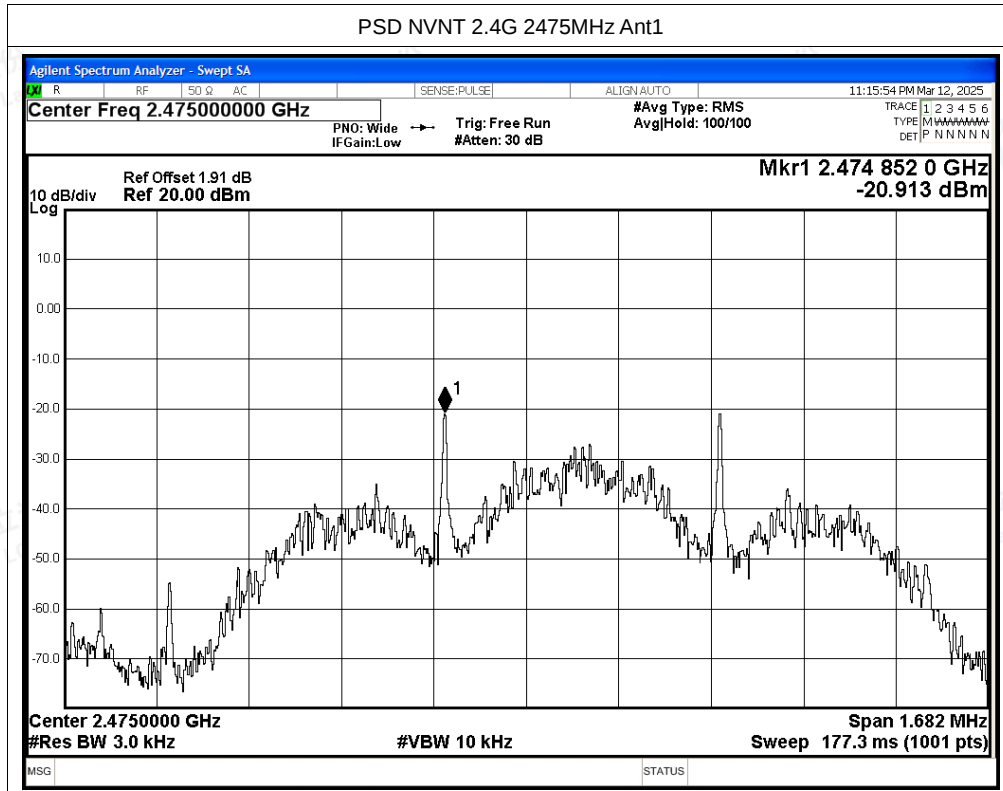
Test Graphs

PSD NVNT 2.4G 2405MHz Ant1



PSD NVNT 2.4G 2440MHz Ant1







A.4 Band Edge

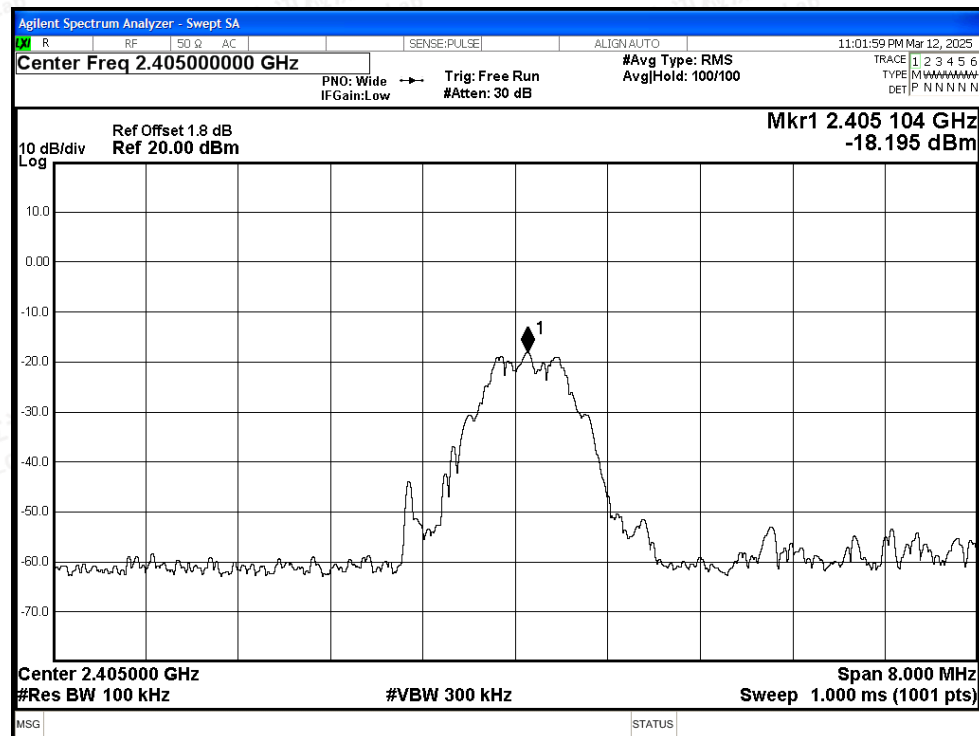
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2.4G	2405	Ant1	-39.13	-20	Pass
NVNT	2.4G	2475	Ant1	-39.08	-20	Pass



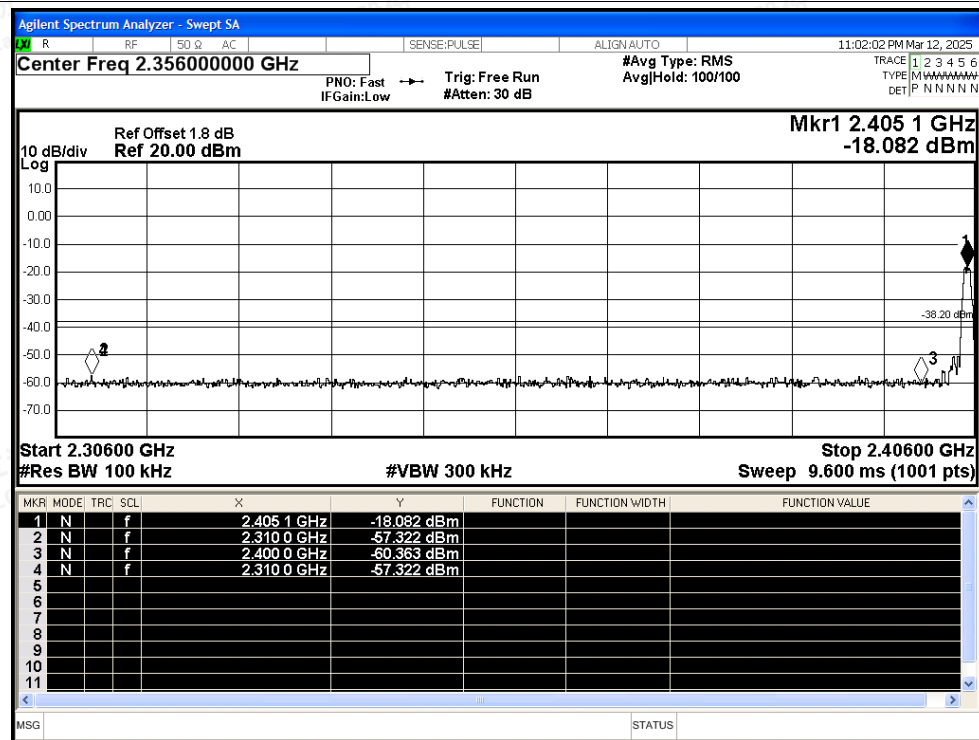


Test Graphs

Band Edge NVNT 2.4G 2405MHz Ant1 Ref



Band Edge NVNT 2.4G 2405MHz Ant1 Emission

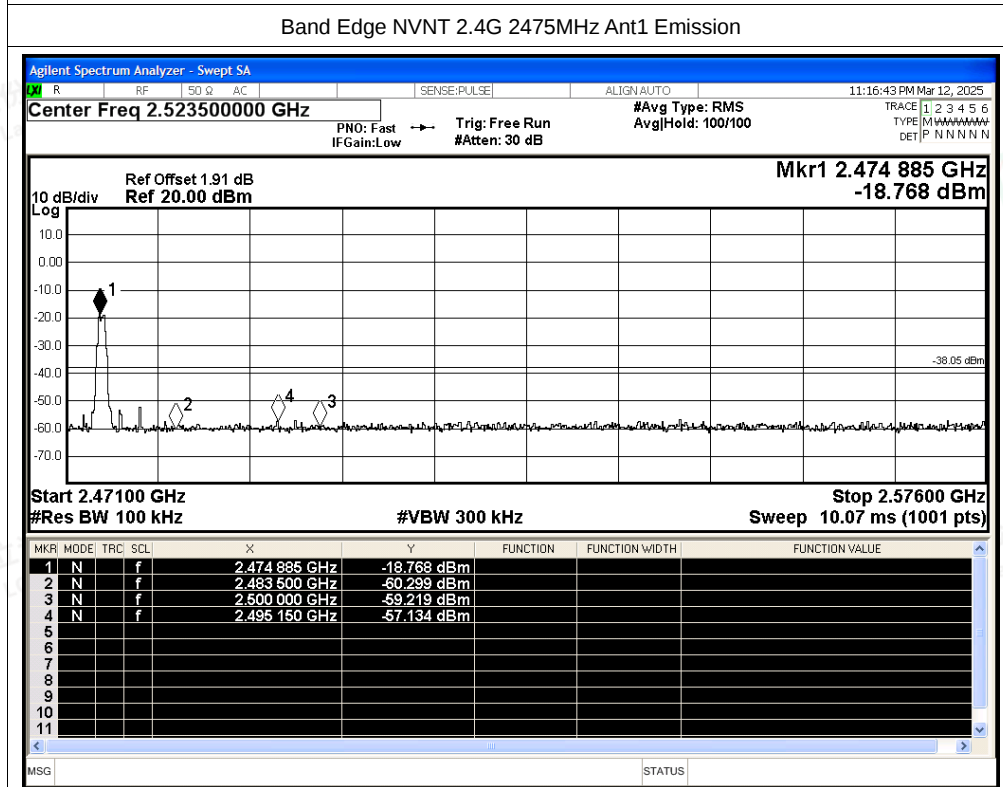
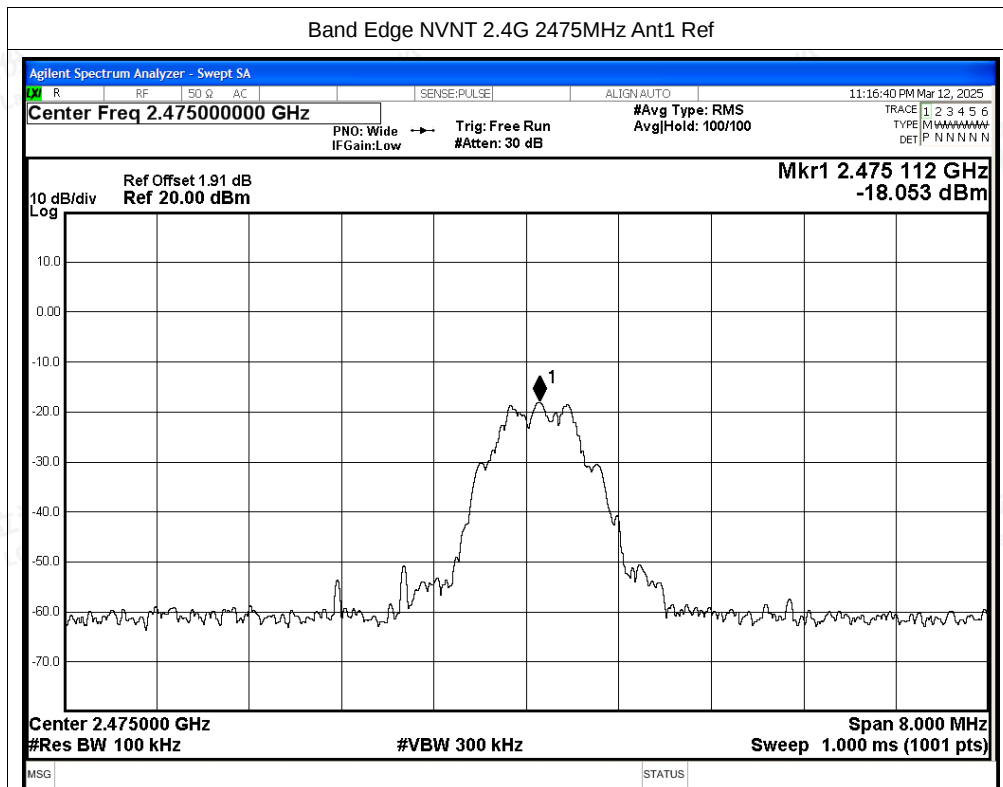


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A.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2.4G	2405	Ant1	-28.14	-20	Pass
NVNT	2.4G	2440	Ant1	-37.31	-20	Pass
NVNT	2.4G	2475	Ant1	-37.36	-20	Pass



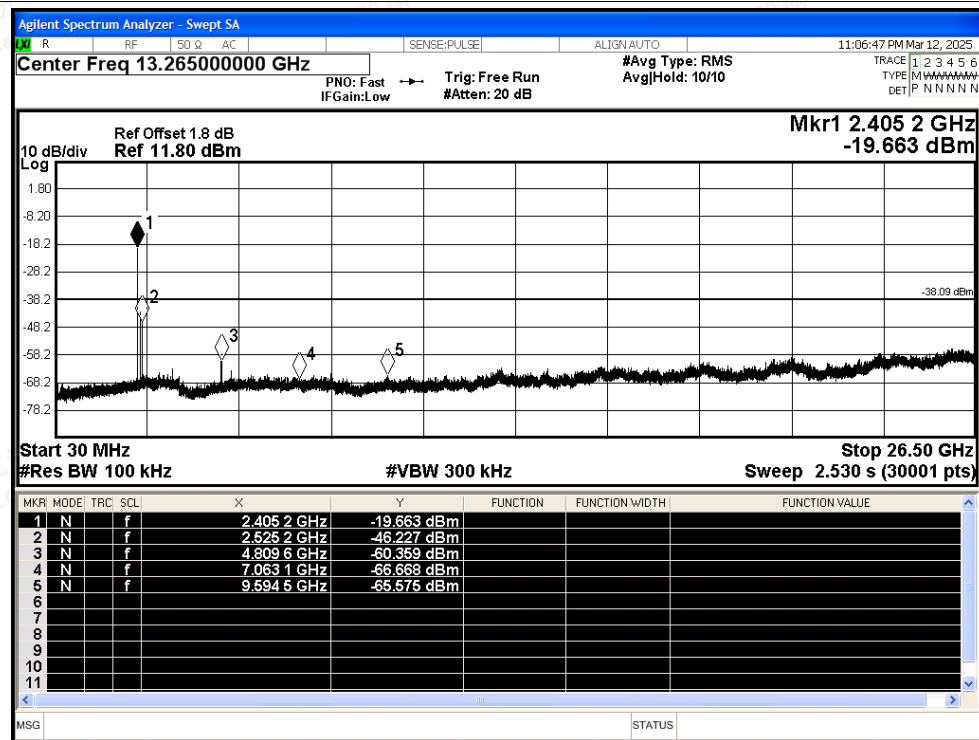


Test Graphs

Tx. Spurious NVNT 2.4G 2405MHz Ant1 Ref



Tx. Spurious NVNT 2.4G 2405MHz Ant1 Emission



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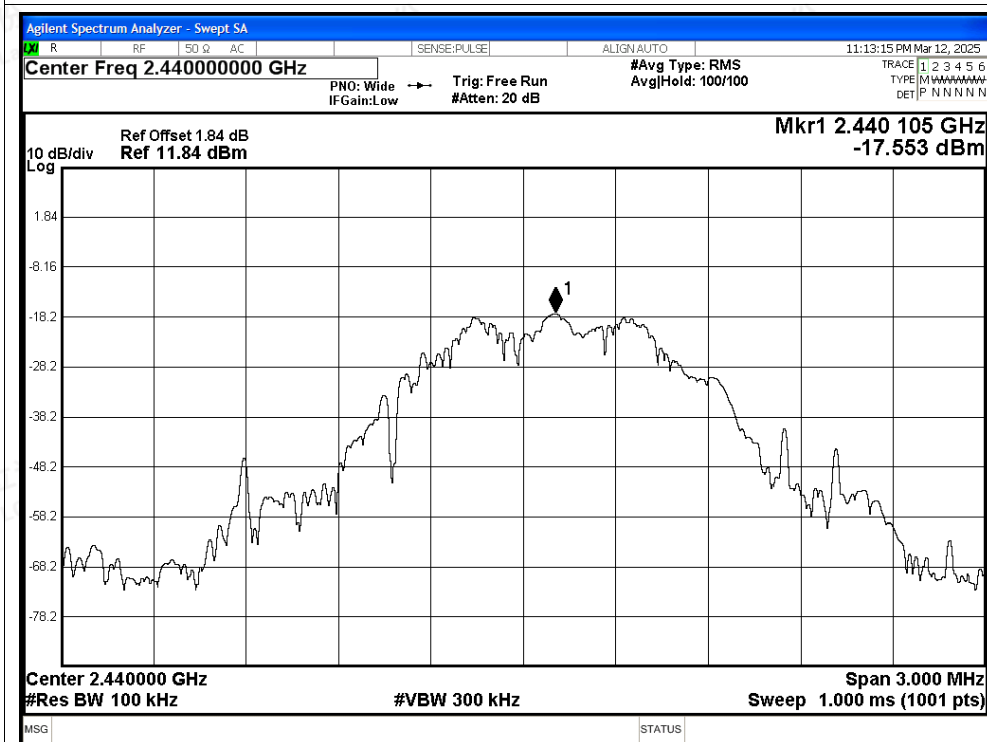
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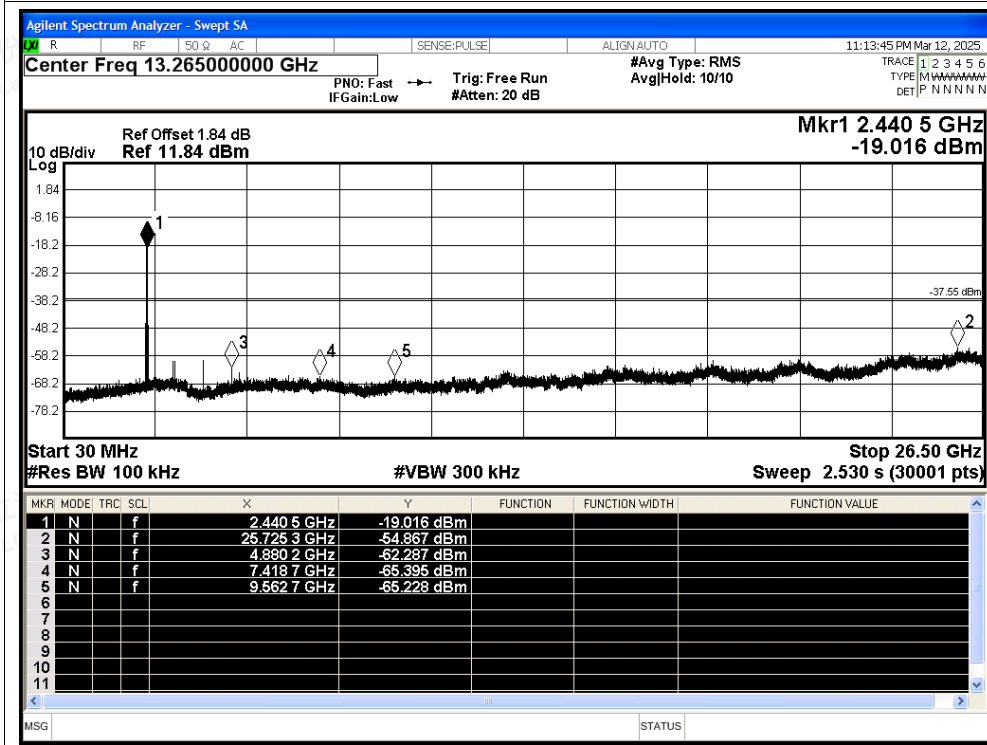
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Tx. Spurious NVNT 2.4G 2440MHz Ant1 Ref



Tx. Spurious NVNT 2.4G 2440MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

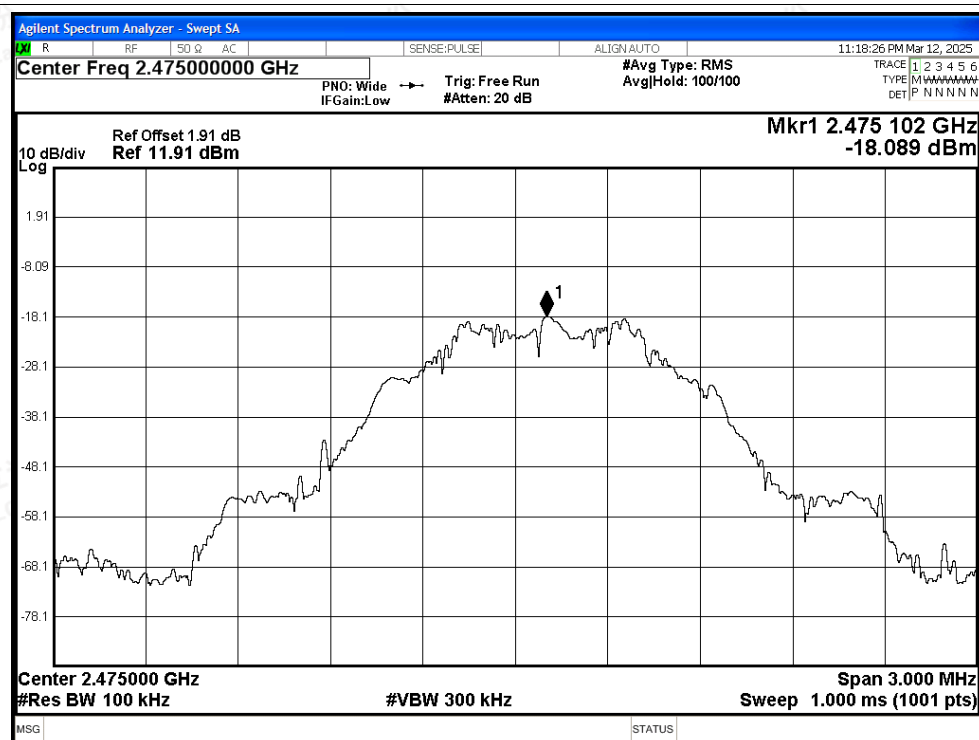
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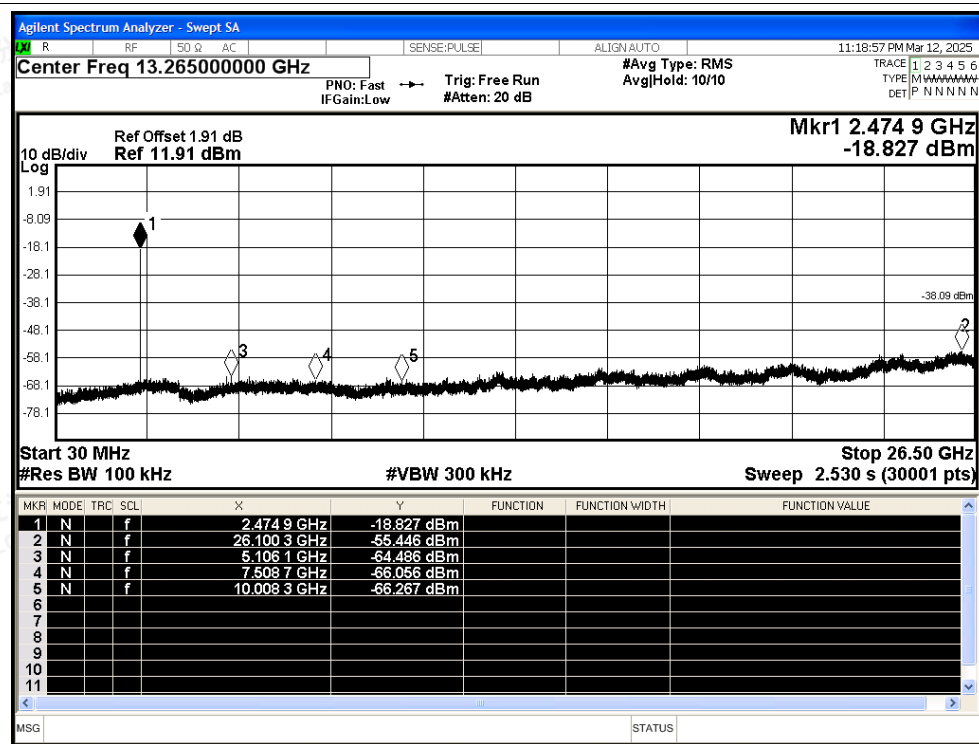
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Tx. Spurious NVNT 2.4G 2475MHz Ant1 Ref



Tx. Spurious NVNT 2.4G 2475MHz Ant1 Emission



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A.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	2.4G	2405	Ant1	5.76	12.4	0.77
NVNT	2.4G	2440	Ant1	5.76	12.4	0.77
NVNT	2.4G	2475	Ant1	5.76	12.4	0.77

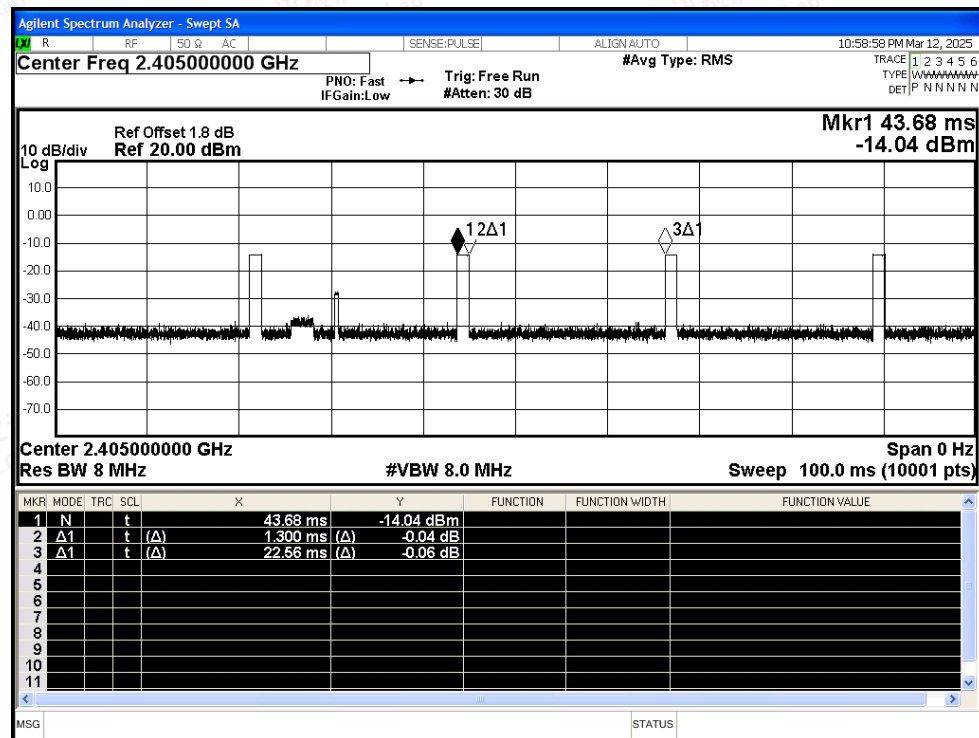


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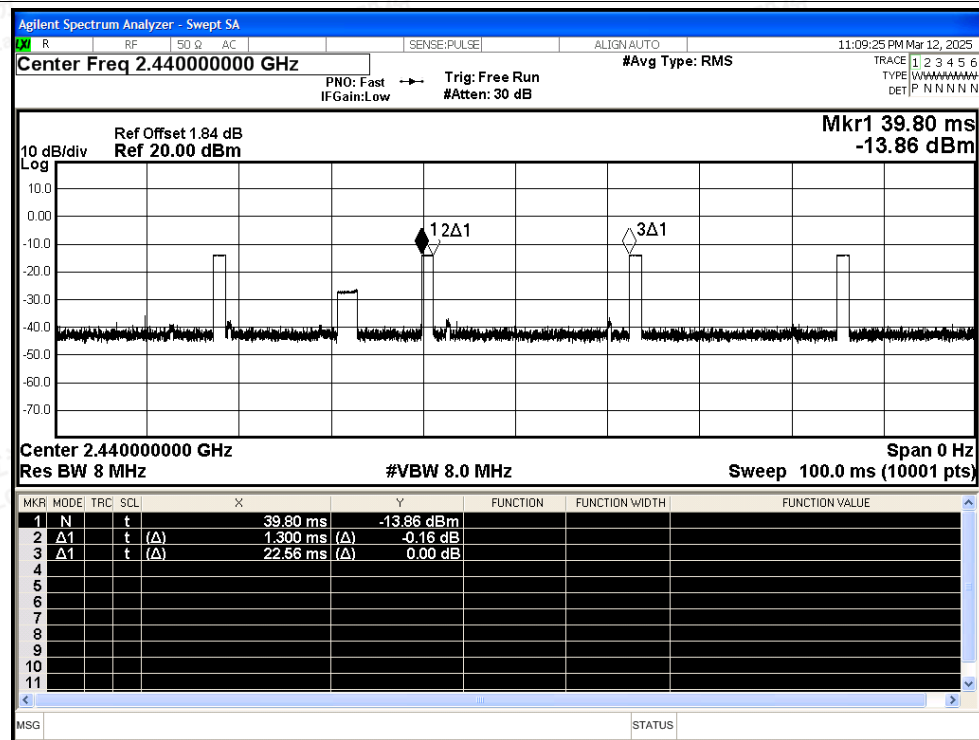


Test Graphs

Duty Cycle NVNT 2.4G 2405MHz Ant1



Duty Cycle NVNT 2.4G 2440MHz Ant1

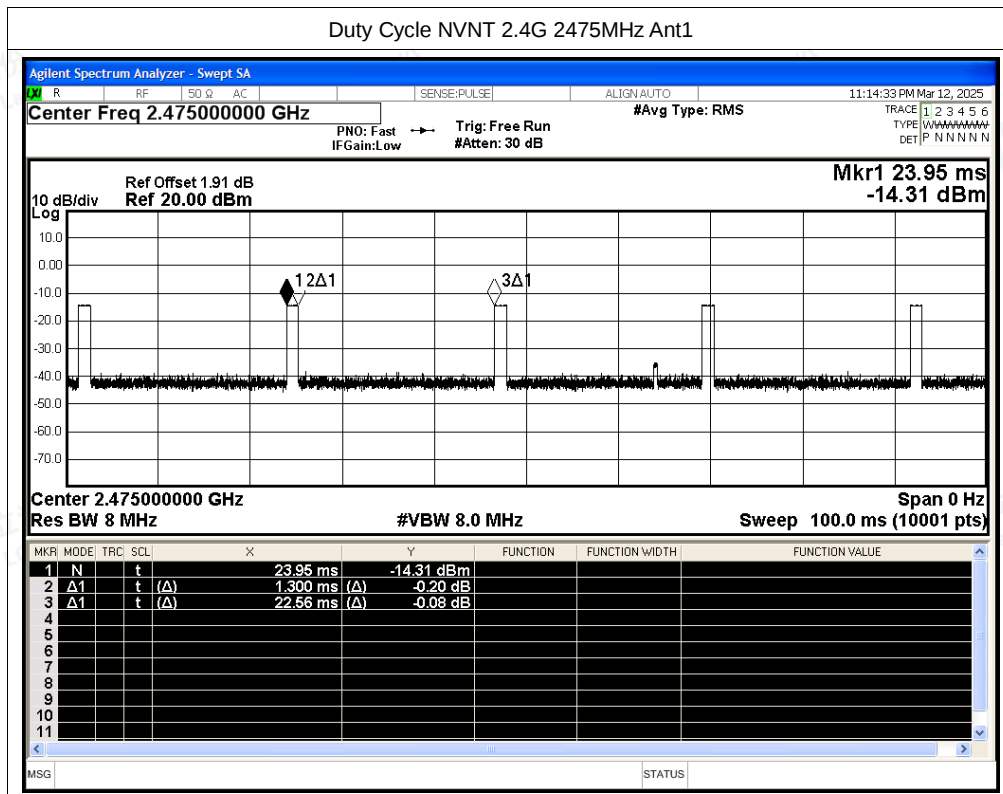


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A.7 Restrict Band

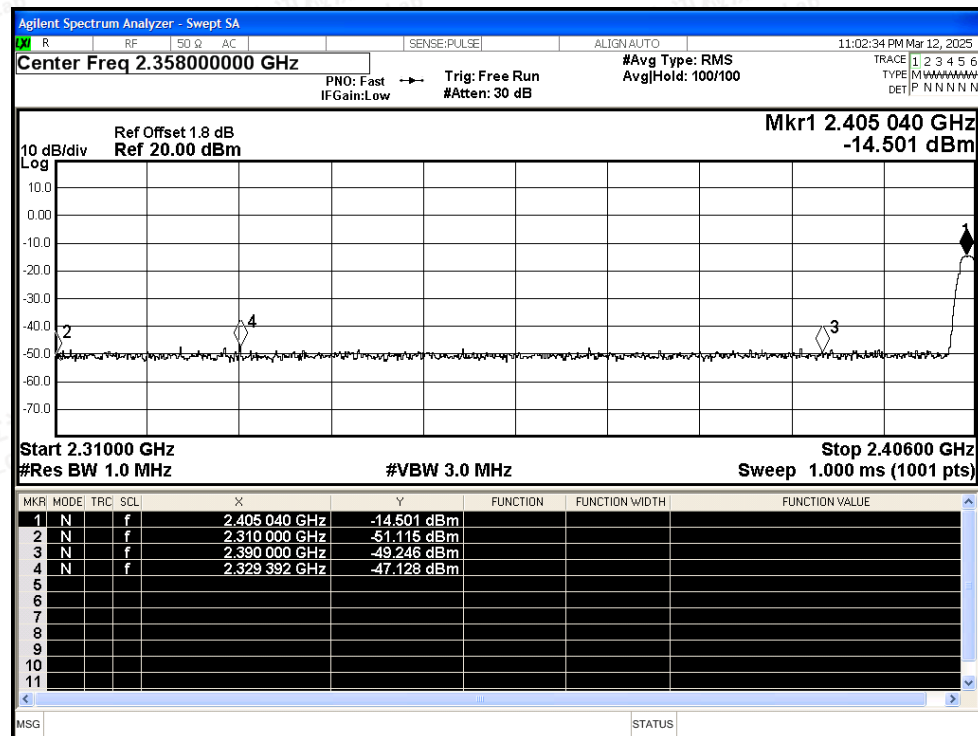
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	2.4G	2405	Ant1	2310	-51.12	2.31	-	46.45	Peak	74	Pass
NVNT	2.4G	2405	Ant1	2310	-58.7	2.31	1.81	40.68	Average	54	Pass
NVNT	2.4G	2405	Ant1	2329.392	-47.13	2.31	-	50.44	Peak	74	Pass
NVNT	2.4G	2405	Ant1	2346.768	-57.87	2.31	1.81	41.51	Average	54	Pass
NVNT	2.4G	2405	Ant1	2390	-49.25	2.31	-	48.32	Peak	74	Pass
NVNT	2.4G	2405	Ant1	2390	-58.89	2.31	1.81	40.49	Average	54	Pass
NVNT	2.4G	2475	Ant1	2483.5	-50.47	2.31	-	47.1	Peak	74	Pass
NVNT	2.4G	2475	Ant1	2483.5	-58.21	2.31	1.81	41.17	Average	54	Pass
NVNT	2.4G	2475	Ant1	2494.229	-47.33	2.31	-	50.24	Peak	74	Pass
NVNT	2.4G	2475	Ant1	2497.564	-57.38	2.31	1.81	42	Average	54	Pass
NVNT	2.4G	2475	Ant1	2500	-50.54	2.31	-	47.03	Peak	74	Pass
NVNT	2.4G	2475	Ant1	2500	-58.32	2.31	1.81	41.06	Average	54	Pass



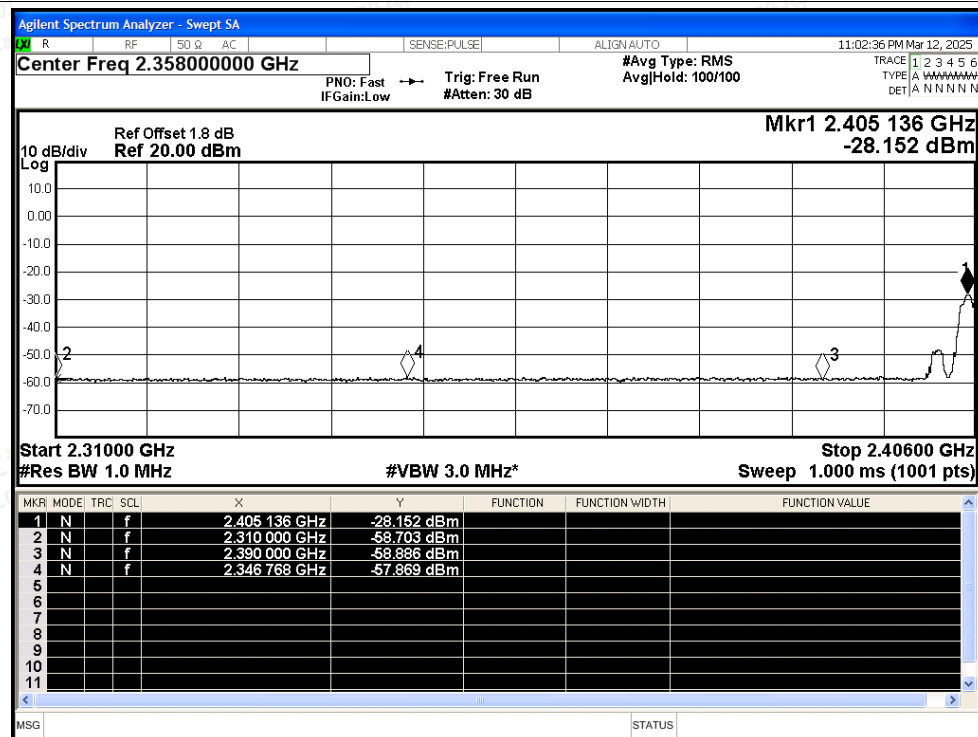


Test Graphs

Restrict Band NVNT 2.4G 2405MHz Ant1 Peak



Restrict Band NVNT 2.4G 2405MHz Ant1 Average



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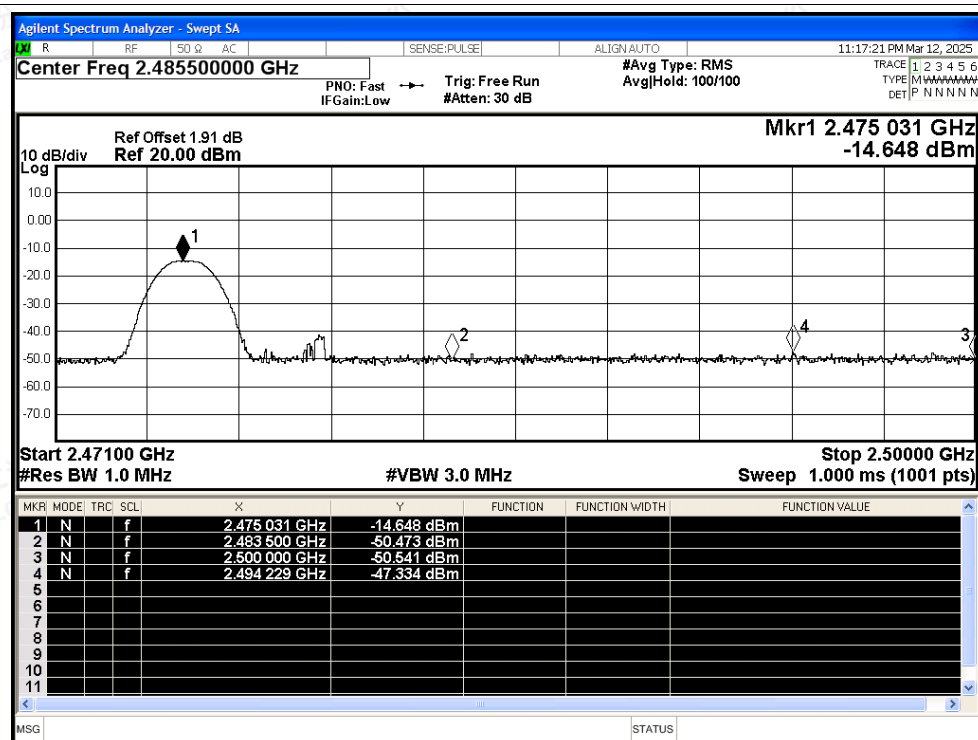
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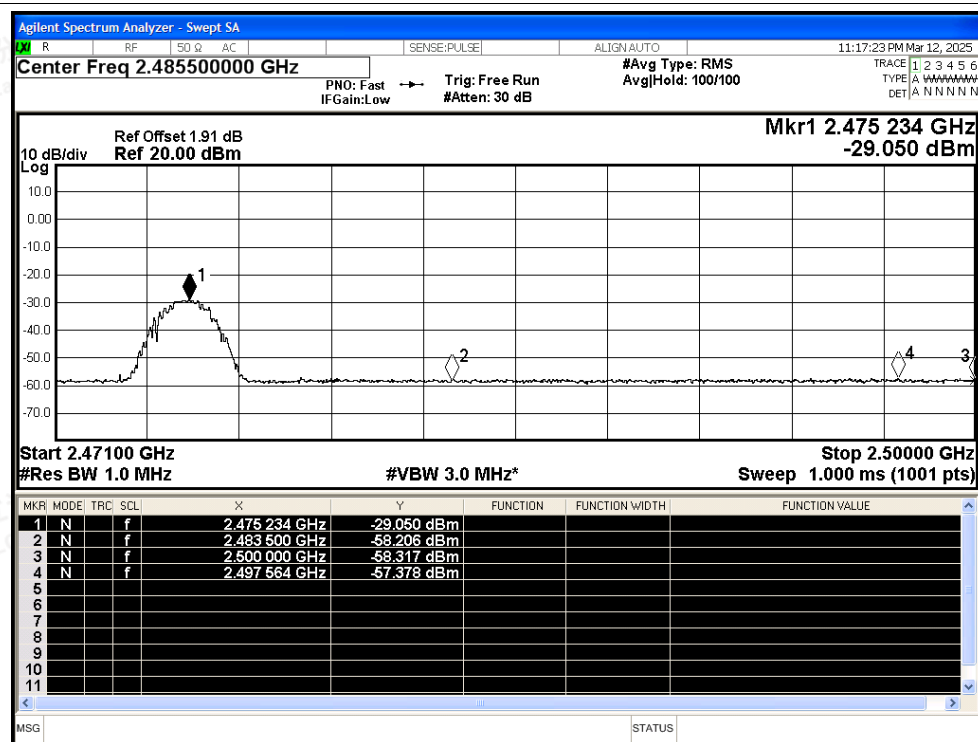
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Restrict Band NVNT 2.4G 2475MHz Ant1 Peak



Restrict Band NVNT 2.4G 2475MHz Ant1 Average



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