



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: ROBOTIC POOL CLEANER

Test Model: OS7010MAX

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng





B.1 -6dB Bandwidth

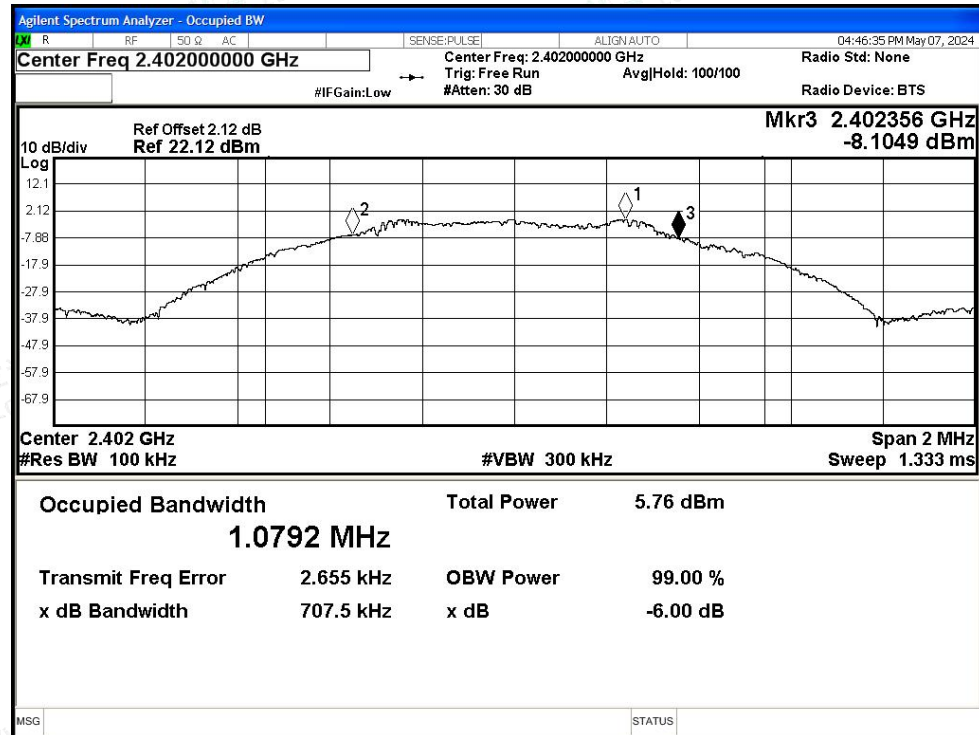
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.708	≥ 0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.702	≥ 0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.693	≥ 0.5	Pass



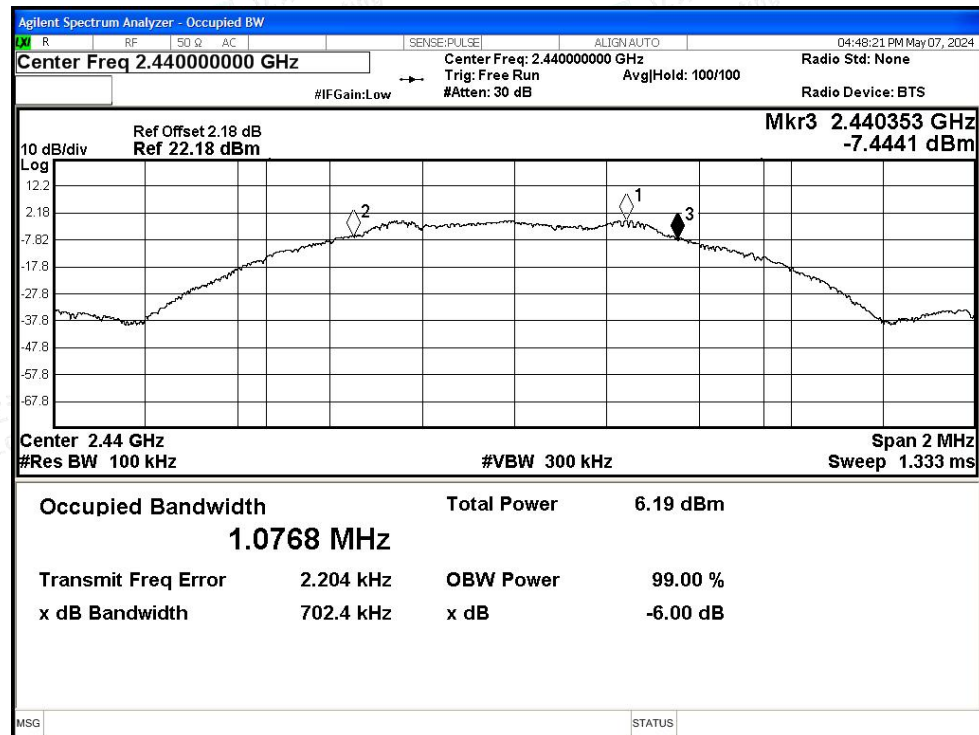


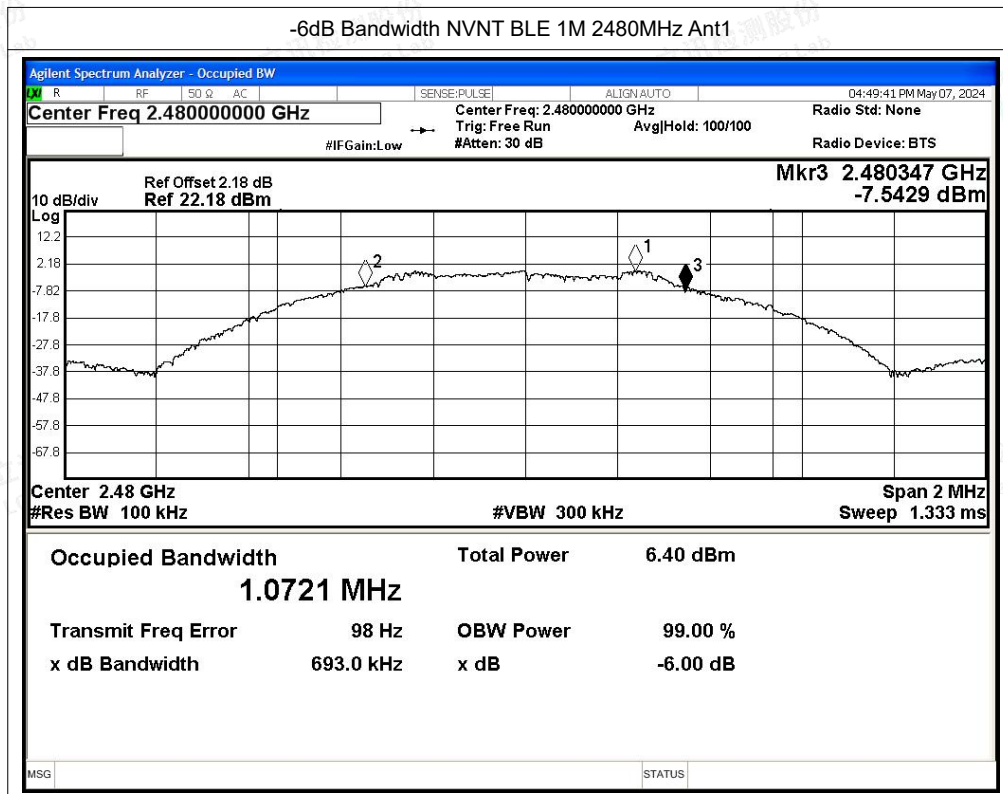
Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1







B.2 Maximum Conducted Output Power

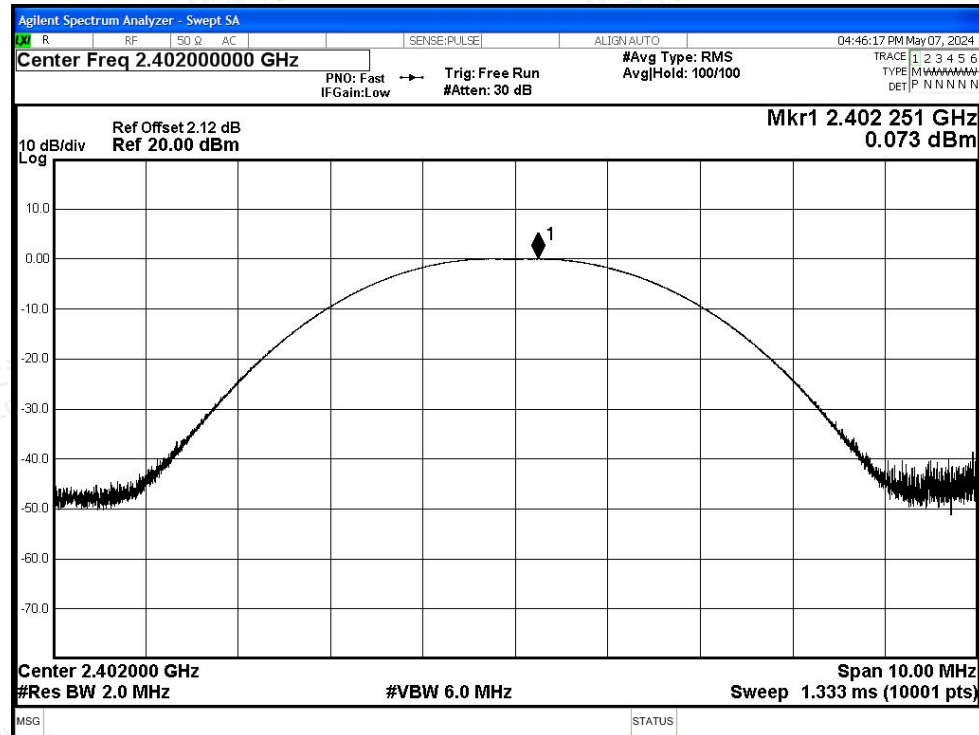
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	0.07	30	Pass
NVNT	BLE 1M	2440	Ant1	0.45	30	Pass
NVNT	BLE 1M	2480	Ant1	0.68	30	Pass



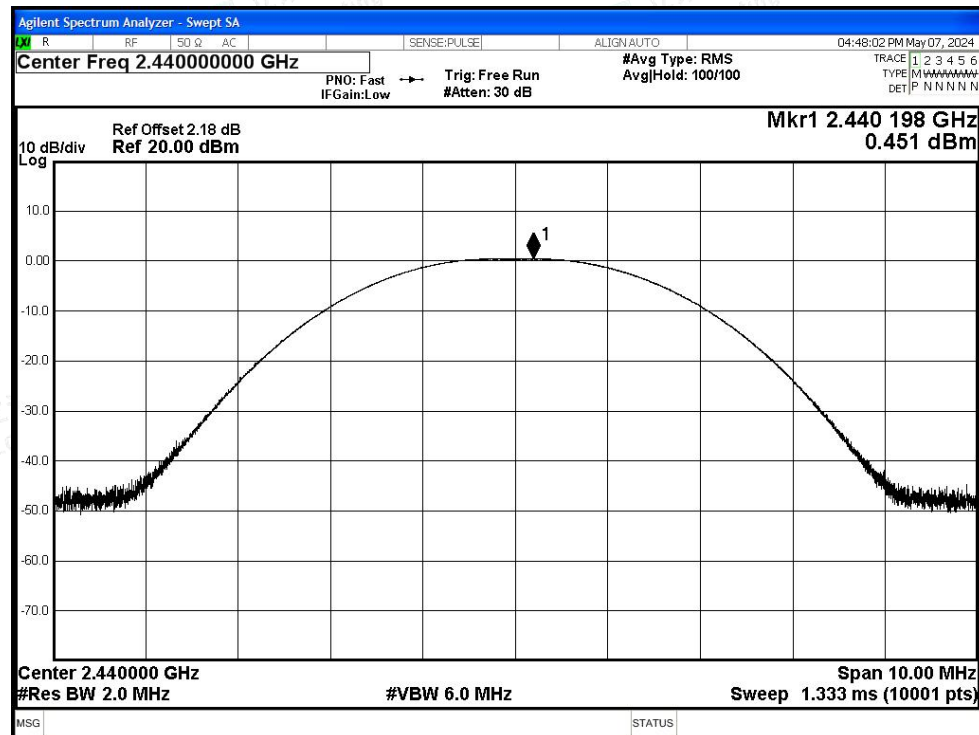


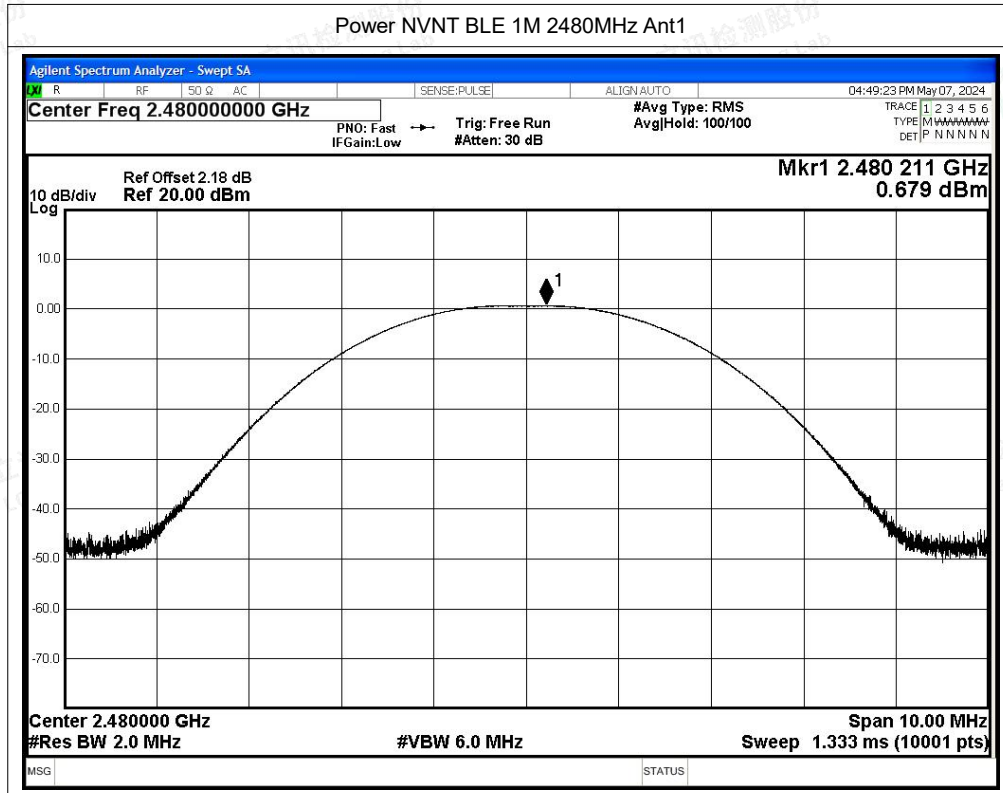
Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1







B.3 Maximum Power Spectral Density Level

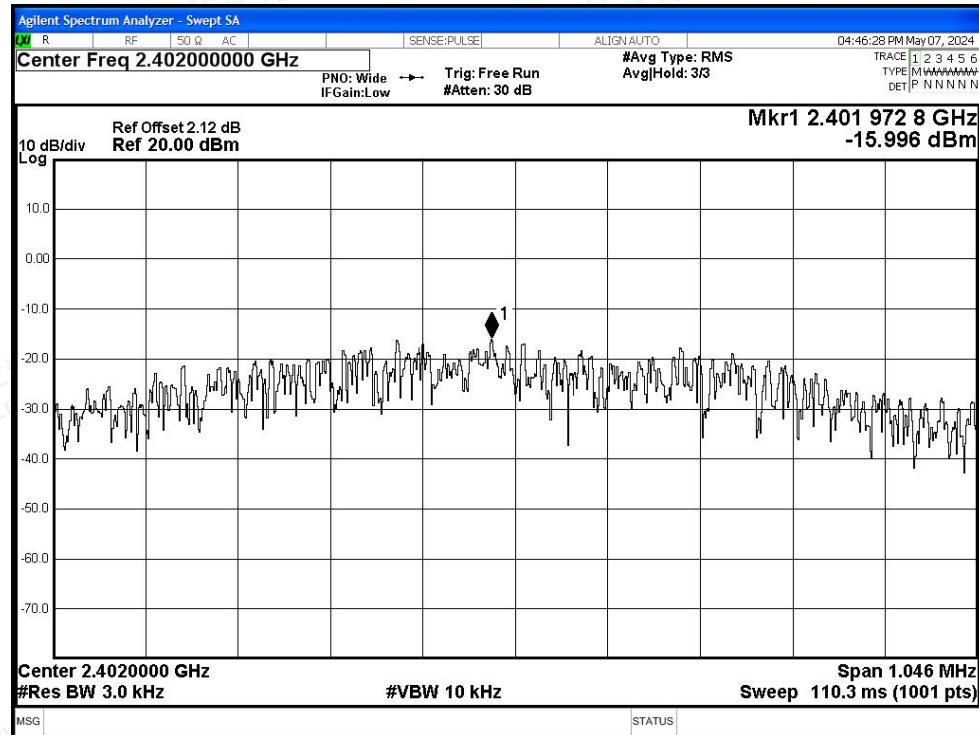
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-16	8	Pass
NVNT	BLE 1M	2440	Ant1	-14.88	8	Pass
NVNT	BLE 1M	2480	Ant1	-14.51	8	Pass



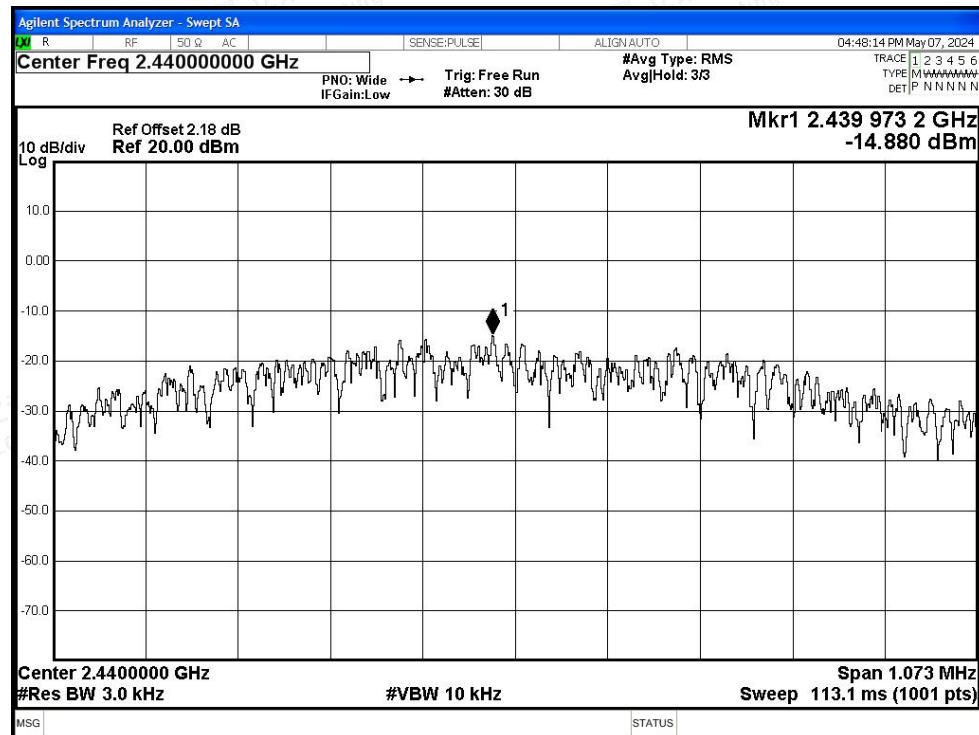


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1

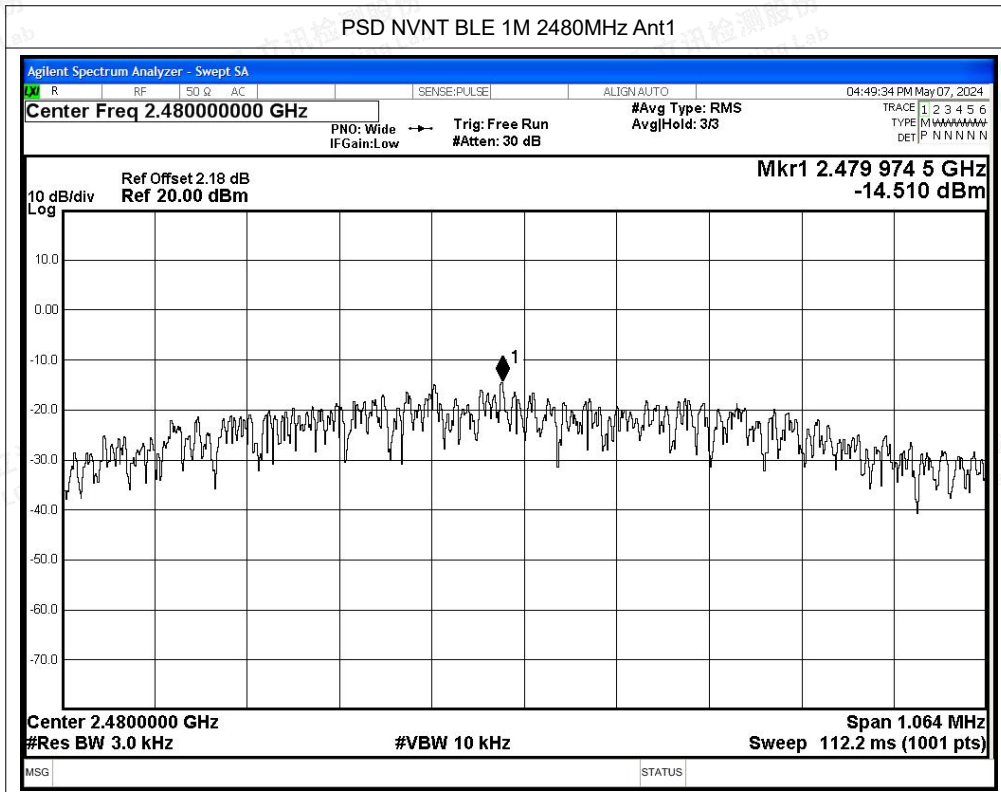


PSD NVNT BLE 1M 2440MHz Ant1





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B.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-56.13	-20	Pass
NVNT	BLE 1M	2480	Ant1	-57.11	-20	Pass

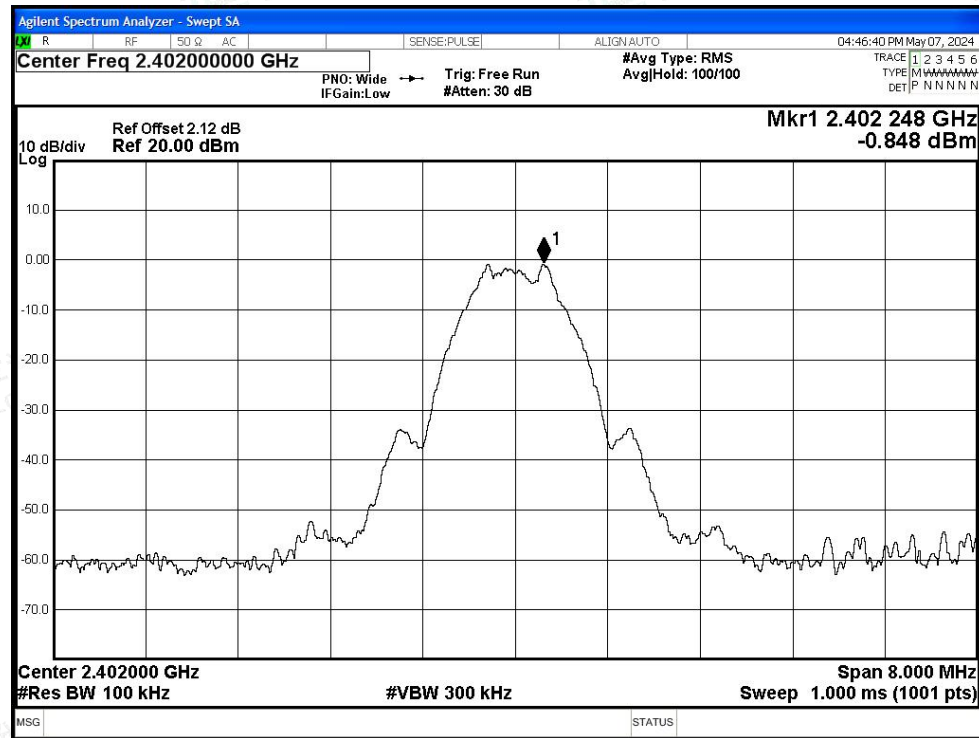




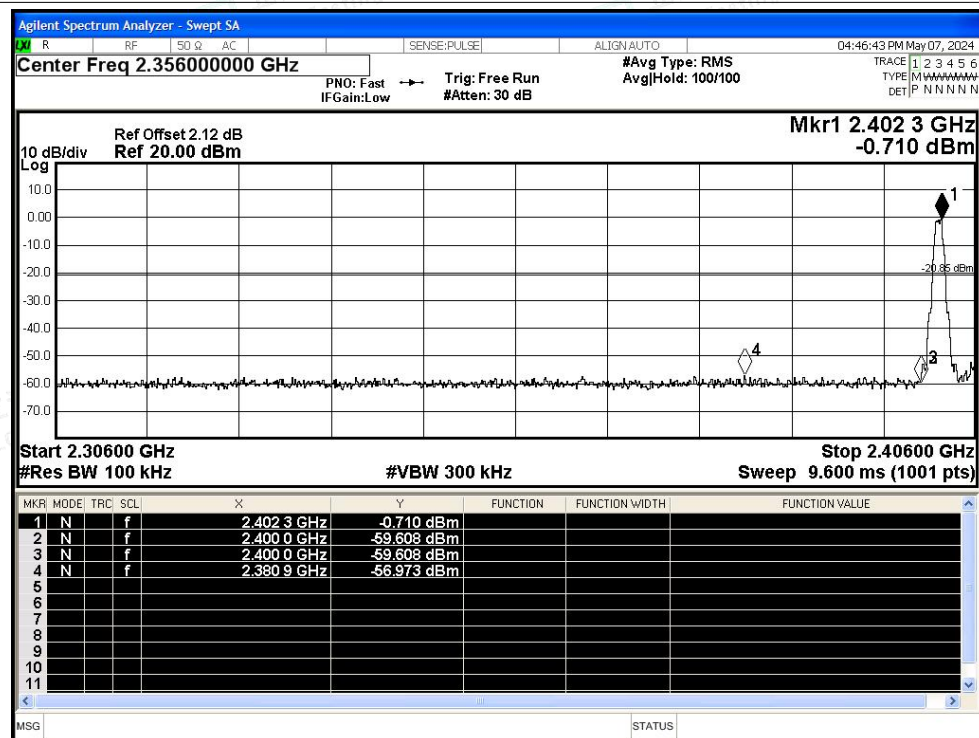
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Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission

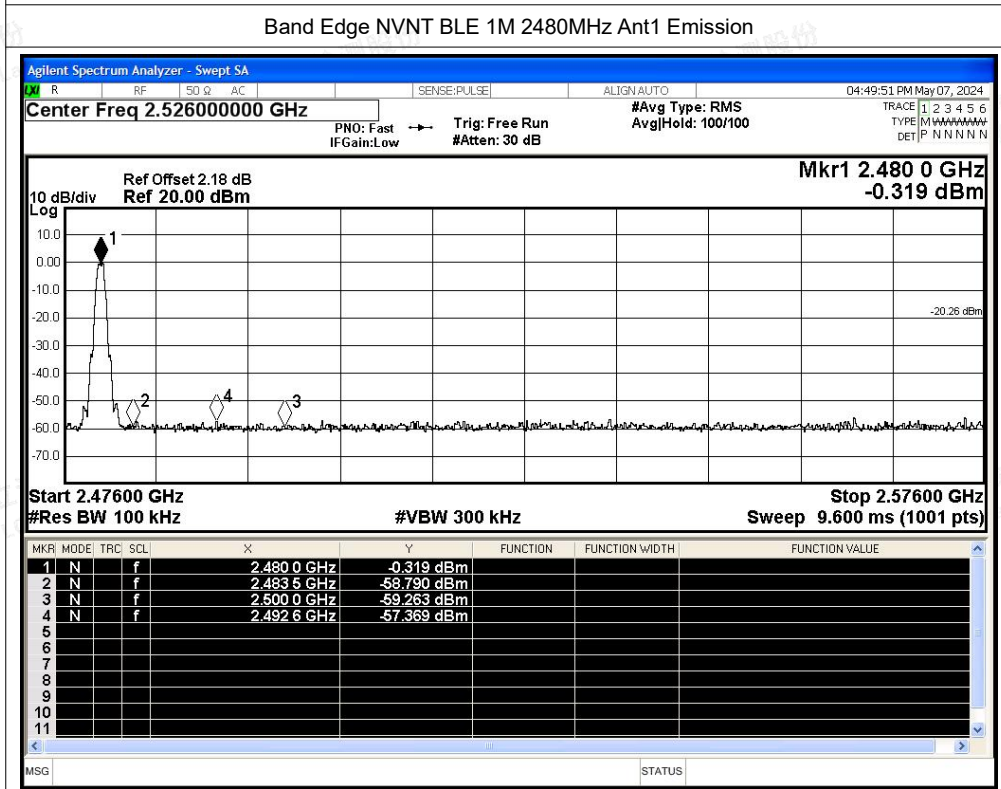
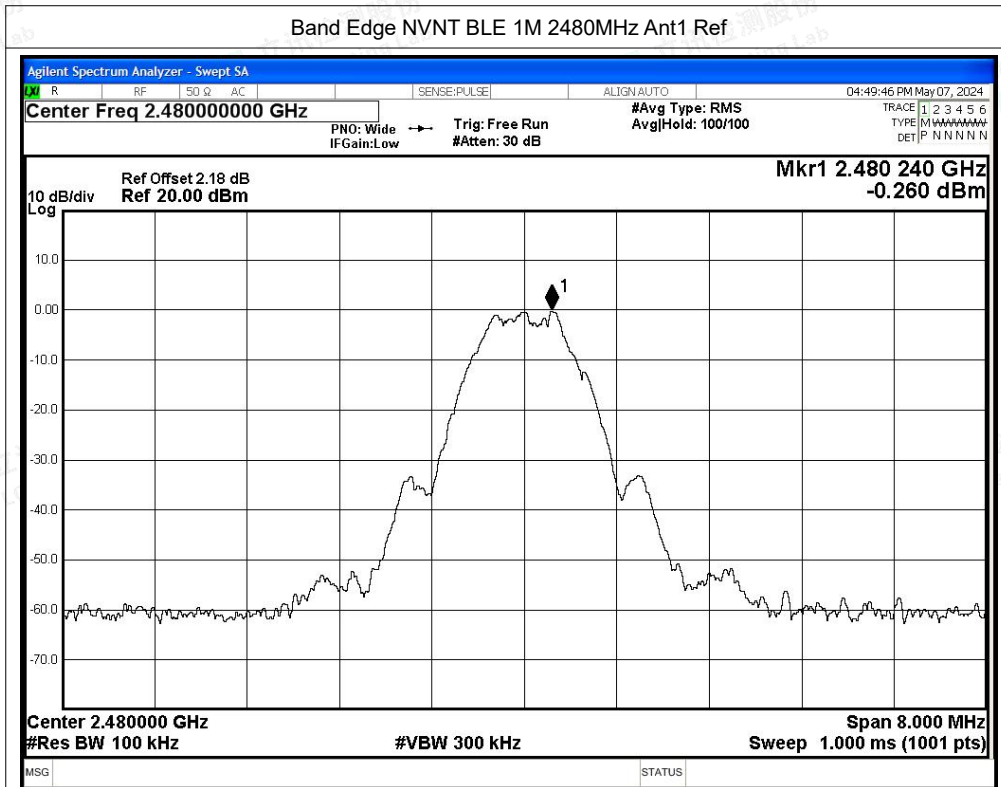


Shenzhen LCS Compliance Testing Laboratory Ltd.

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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	-54.95	-20	Pass
NVNT	BLE 1M	2440	Ant1	-54.86	-20	Pass
NVNT	BLE 1M	2480	Ant1	-54.93	-20	Pass



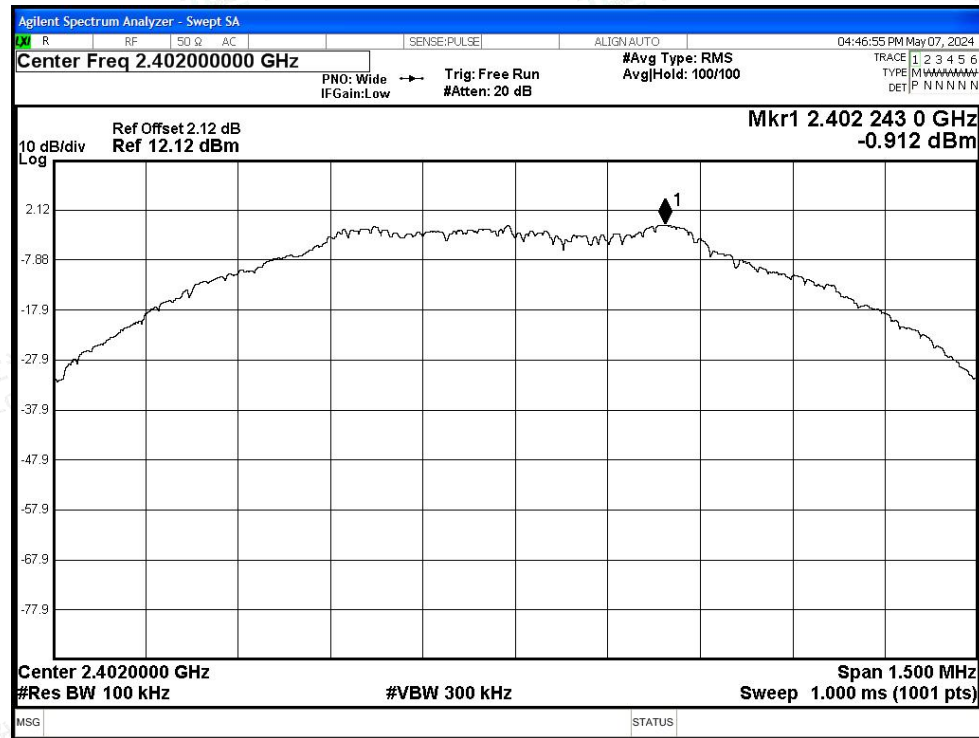
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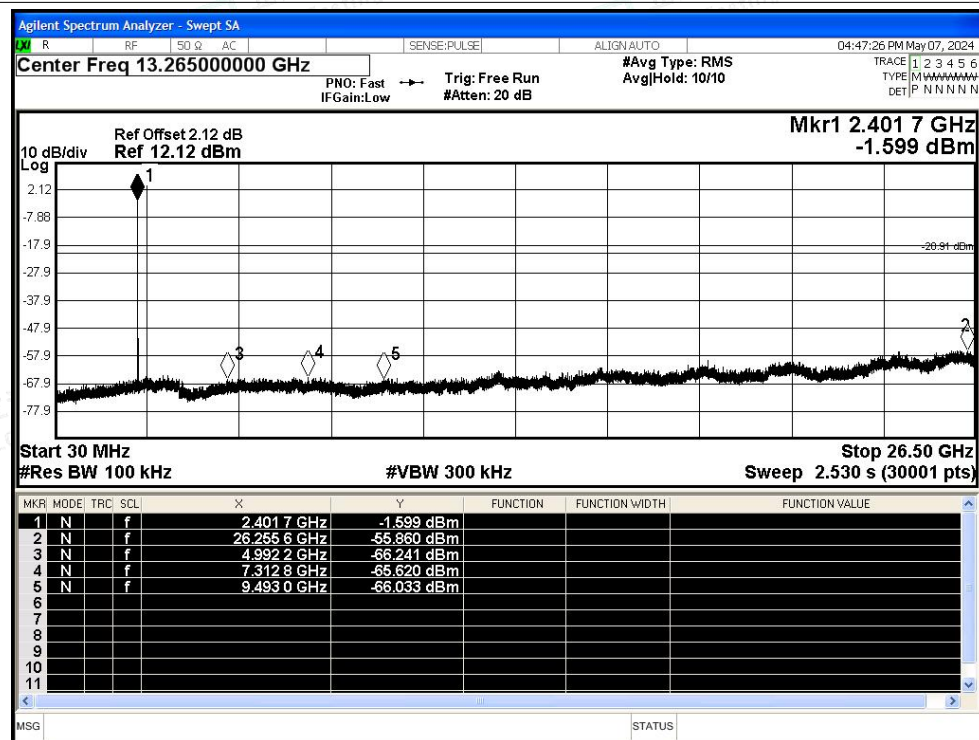
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Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



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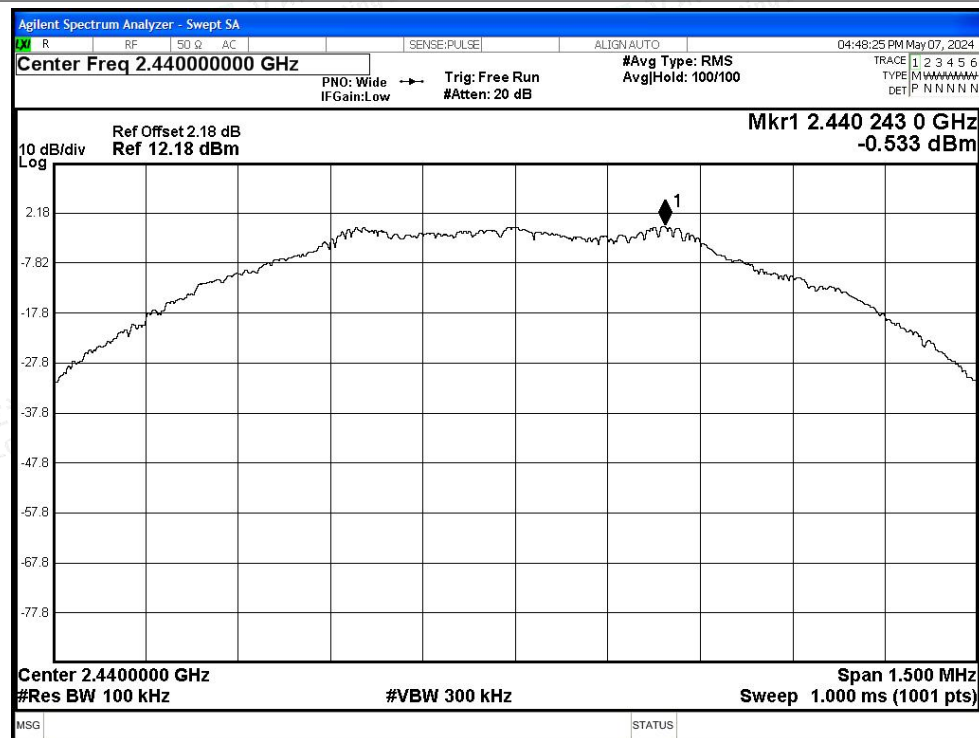
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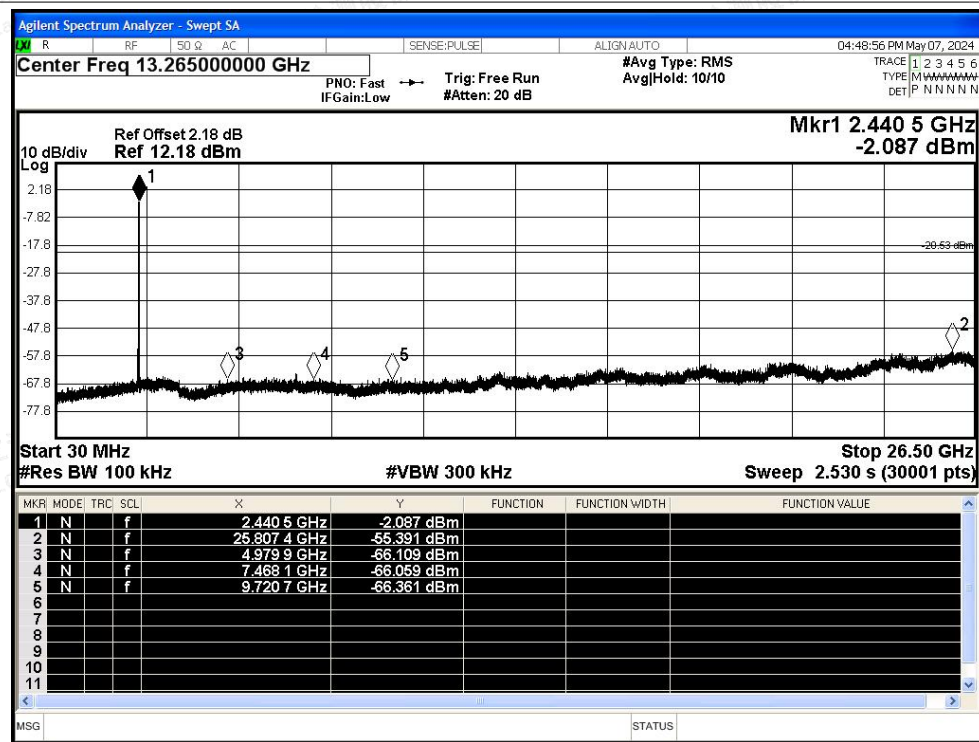


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Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



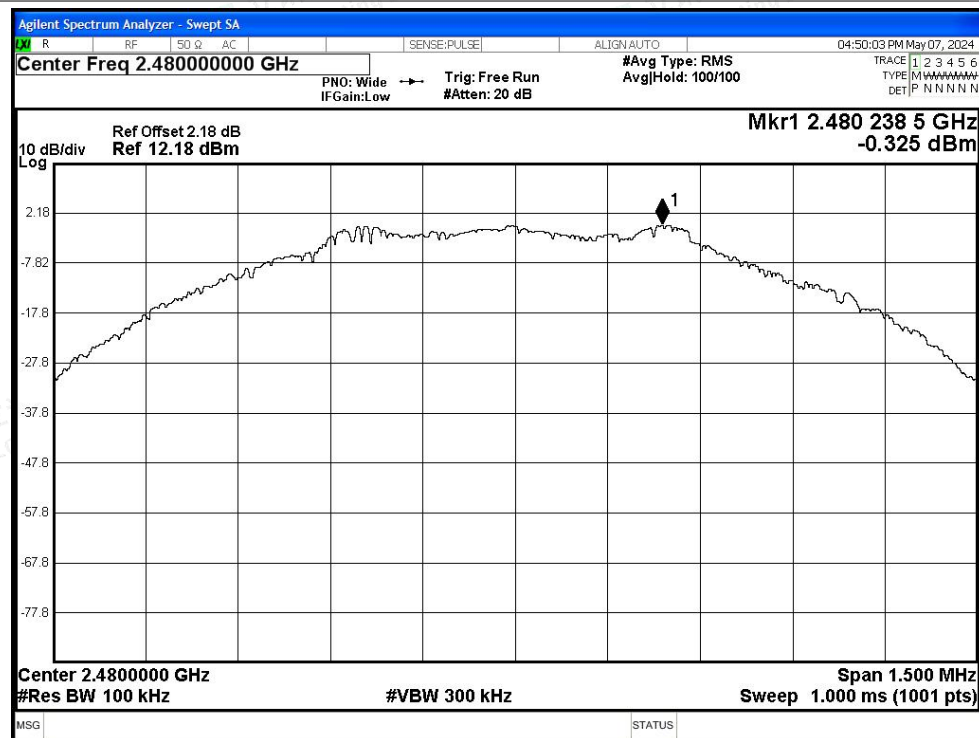
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



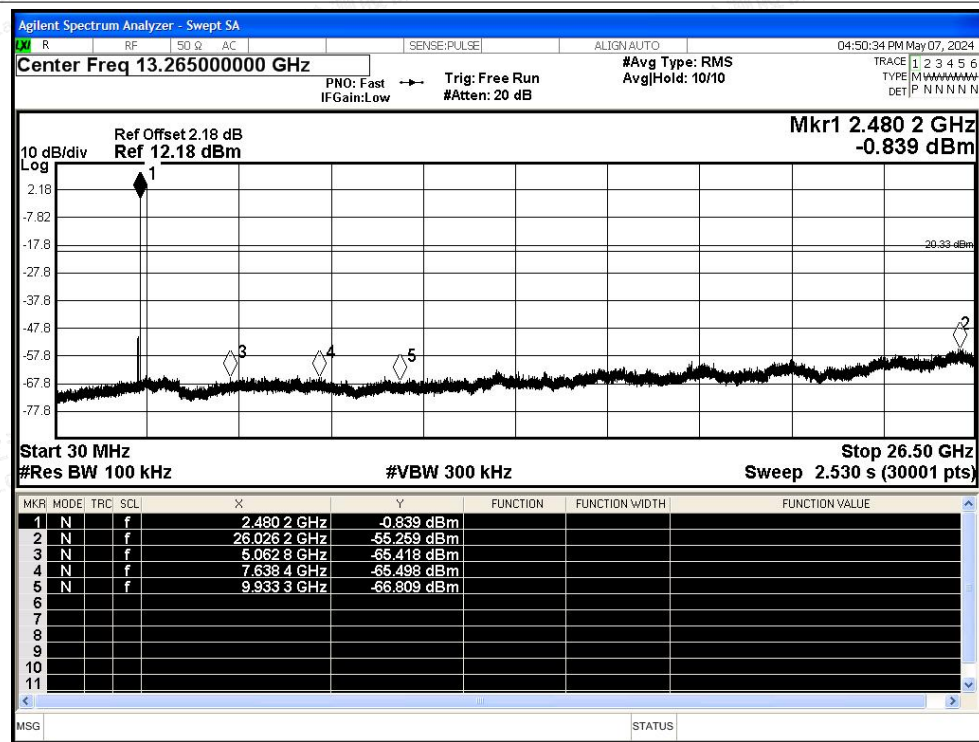


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Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



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	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

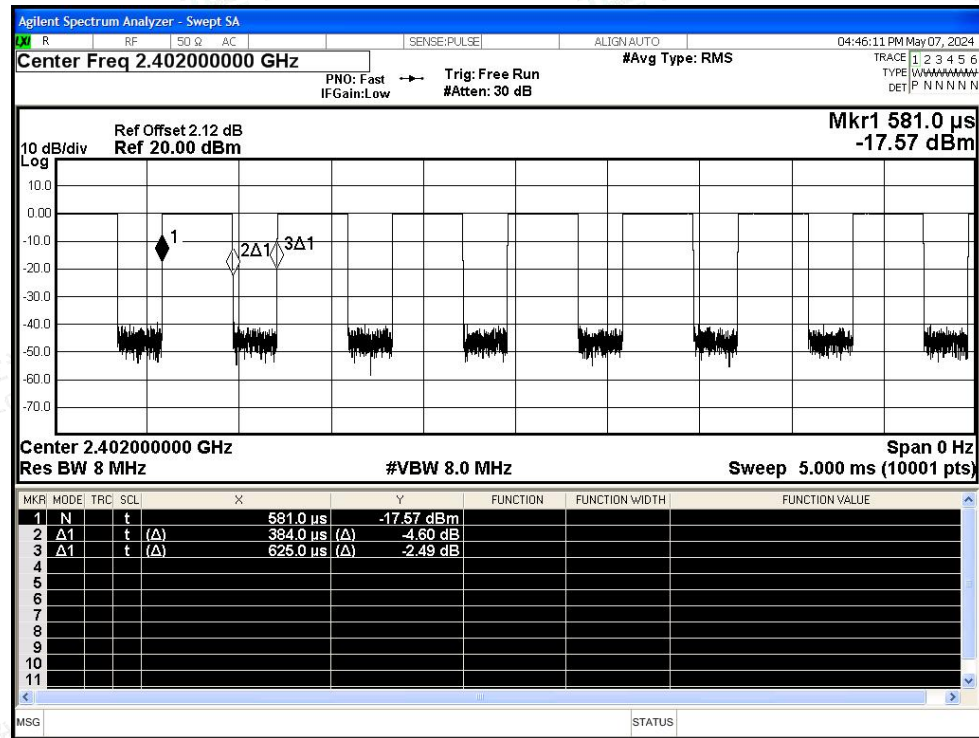




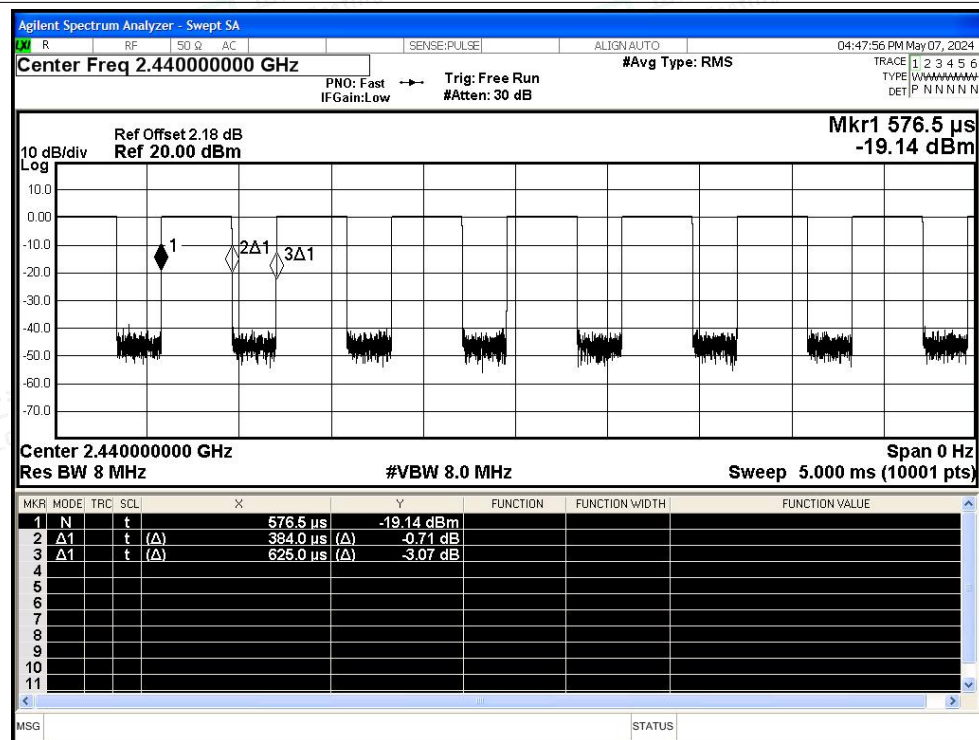
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Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1

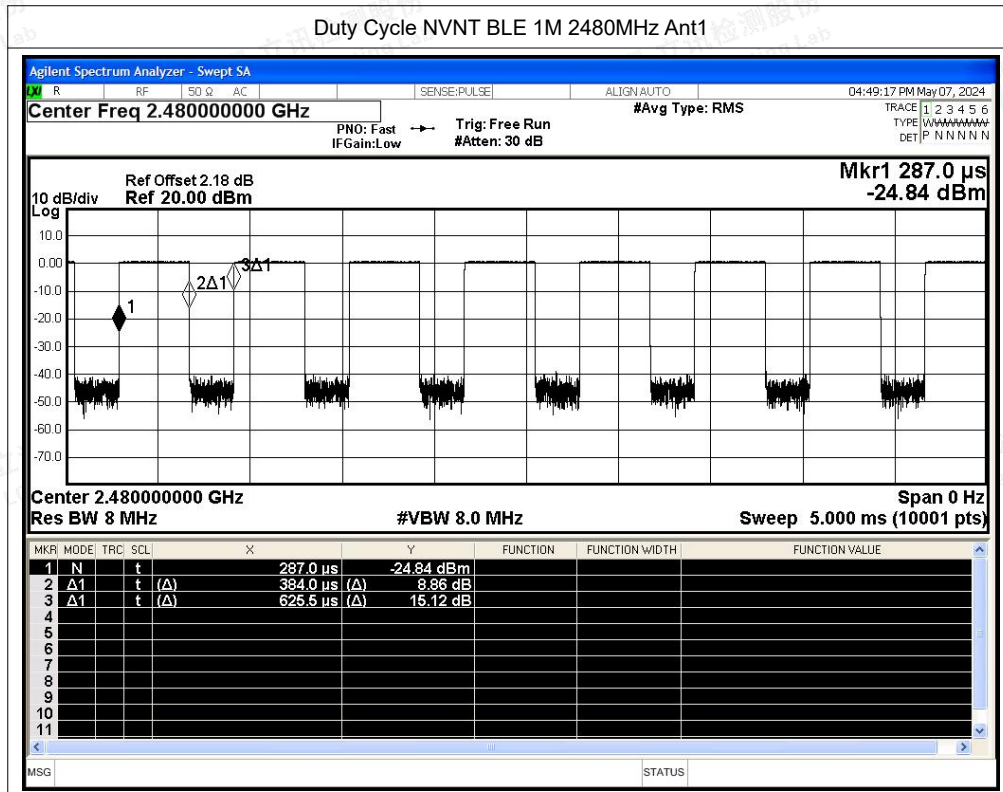


Duty Cycle NVNT BLE 1M 2440MHz Ant1





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B.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	-49.66	4.16	-	49.76	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-58.7	4.16	2.12	42.84	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2335.632	-46.56	4.16	-	52.86	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2365.968	-57.61	4.16	2.12	43.93	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-50.79	4.16	-	48.63	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-58.91	4.16	2.12	42.63	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-48.62	4.16	-	50.80	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-58.47	4.16	2.12	43.07	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2496.232	-47.11	4.16	-	52.31	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2489.32	-57.17	4.16	2.12	44.37	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-49.22	4.16	-	50.20	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-58.08	4.16	2.12	43.46	Average	54	Pass

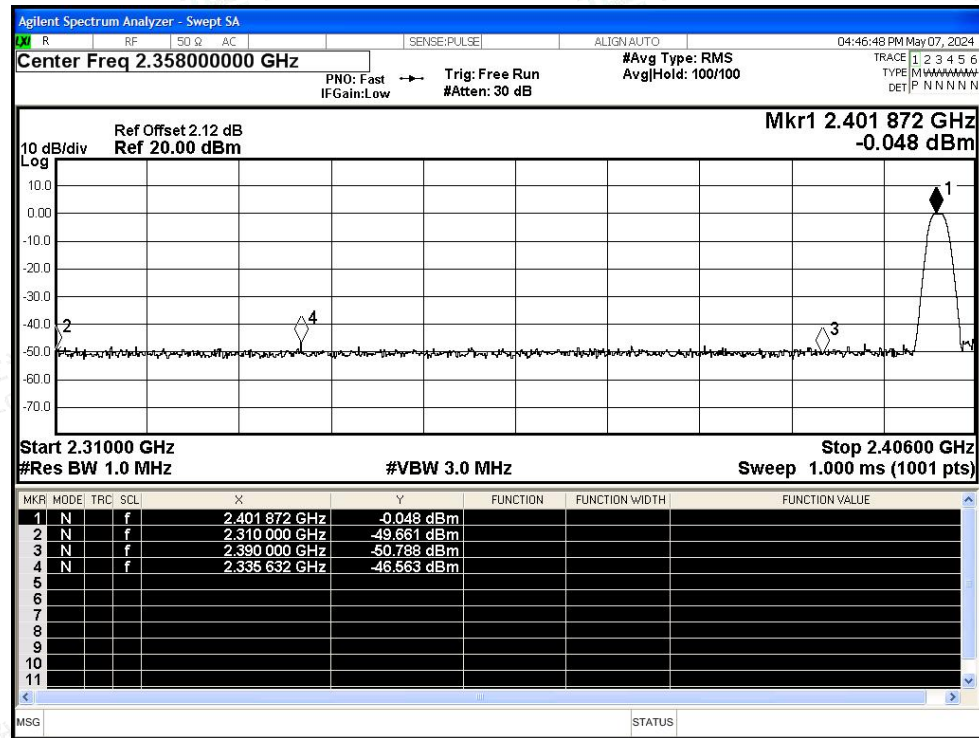




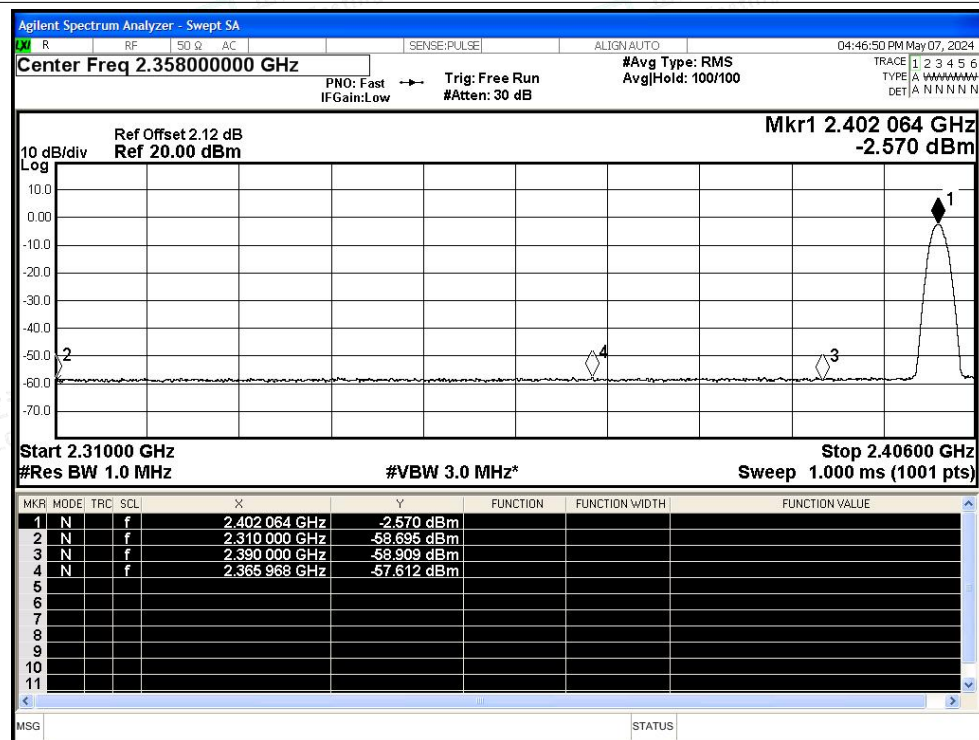
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Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



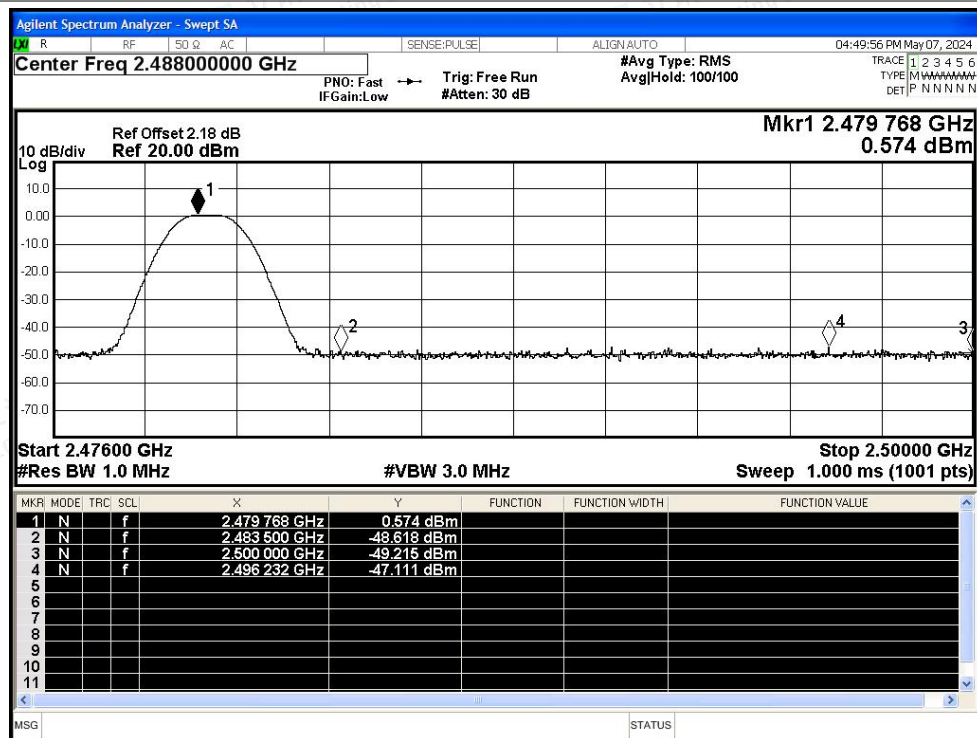
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Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant1 Average

