



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: TA83 WirelessGaming headset

Test Model: TA83

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Joker Hu
Supervised by:	Ling Zhu





B.1 -6dB Bandwidth

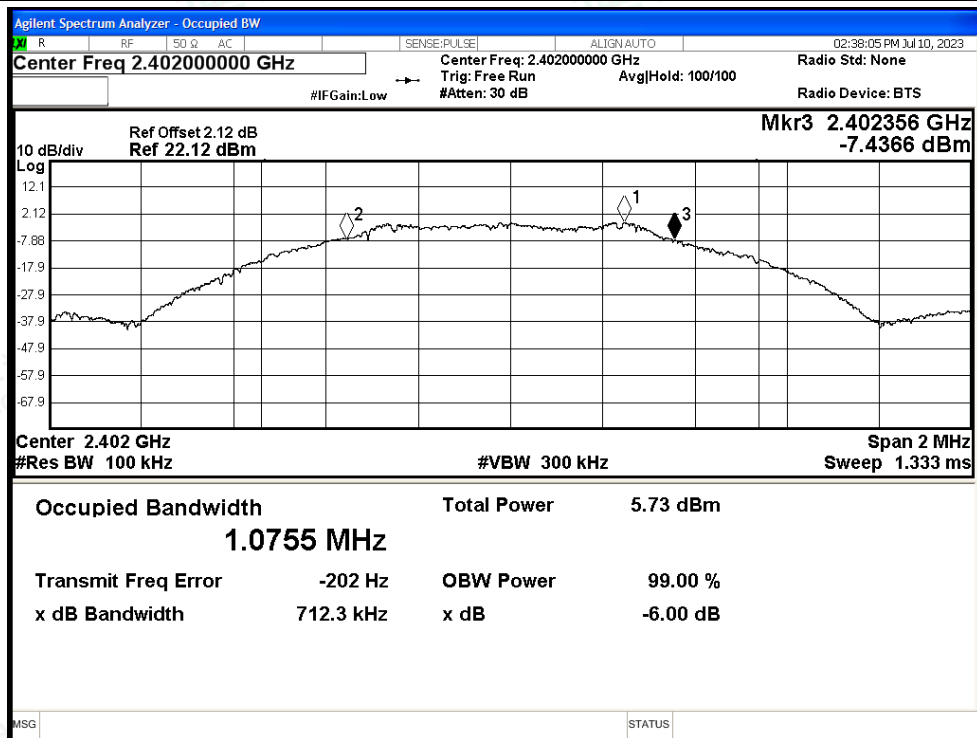
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE	2402	Ant	0.712	≥ 0.5	Pass
NVNT	BLE	2440	Ant	0.694	≥ 0.5	Pass
NVNT	BLE	2480	Ant	0.708	≥ 0.5	Pass



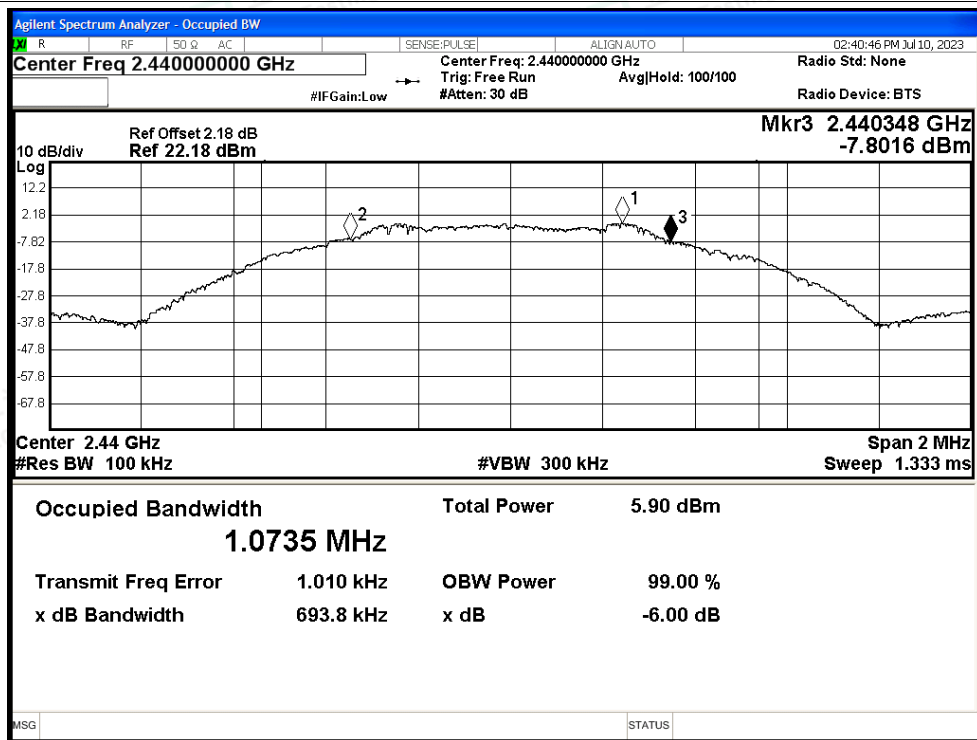


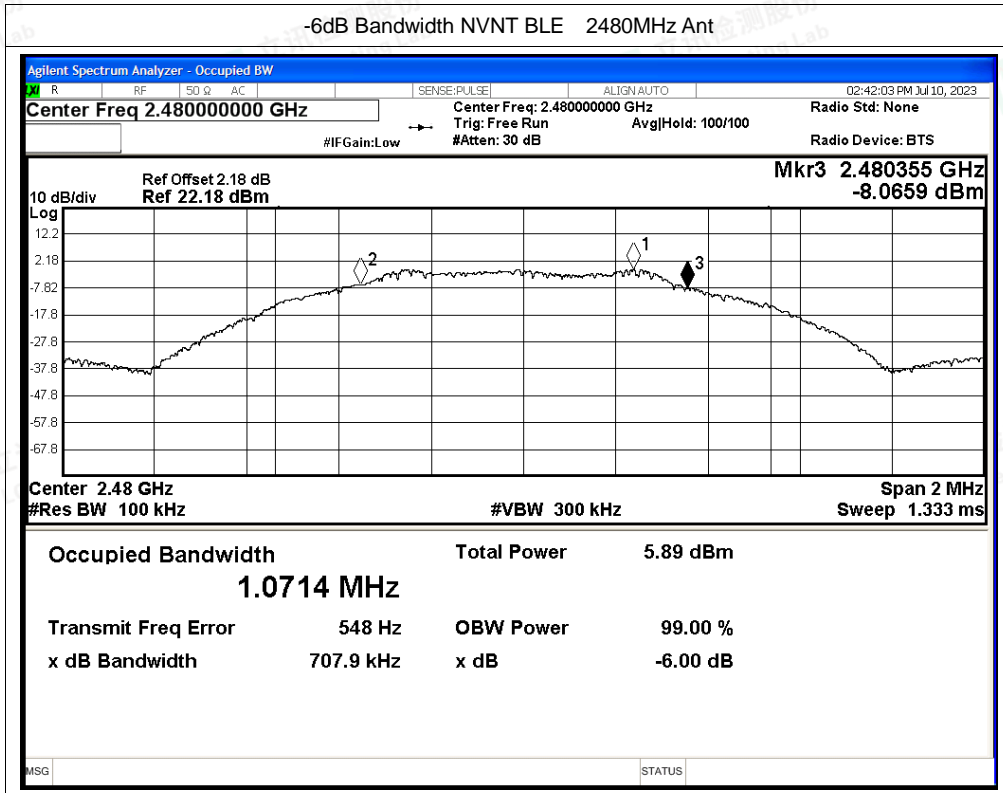
Test Graphs

-6dB Bandwidth NVNT BLE 2402MHz Ant



-6dB Bandwidth NVNT BLE 2440MHz Ant







B.2 Maximum Conducted Output Power

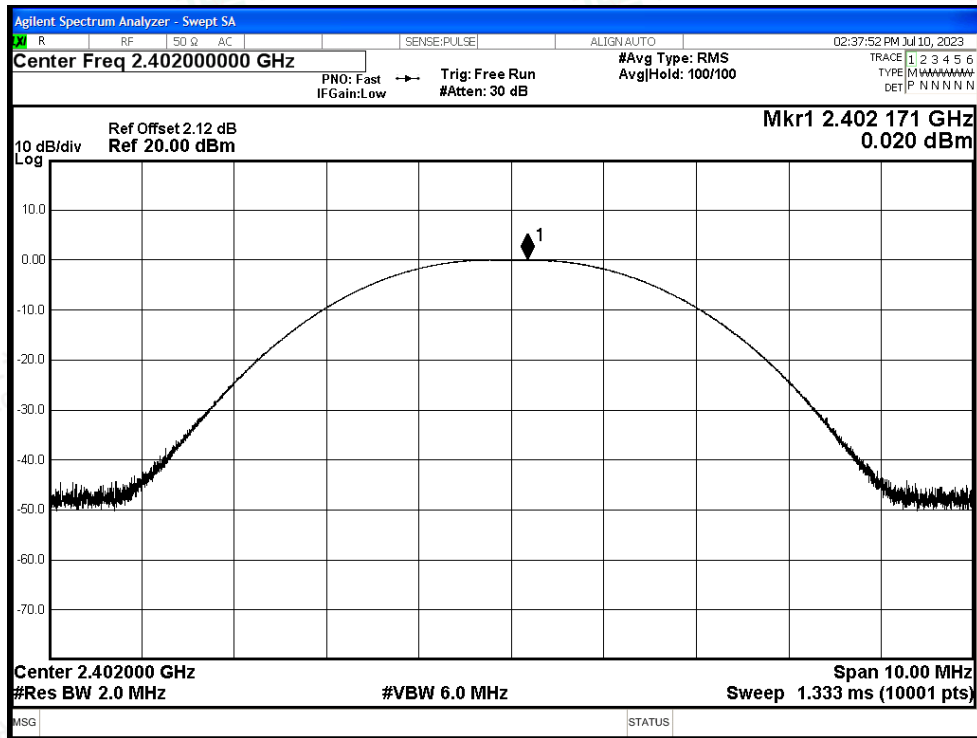
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	Ant	0.020	30	Pass
NVNT	BLE	2440	Ant	0.190	30	Pass
NVNT	BLE	2480	Ant	0.191	30	Pass



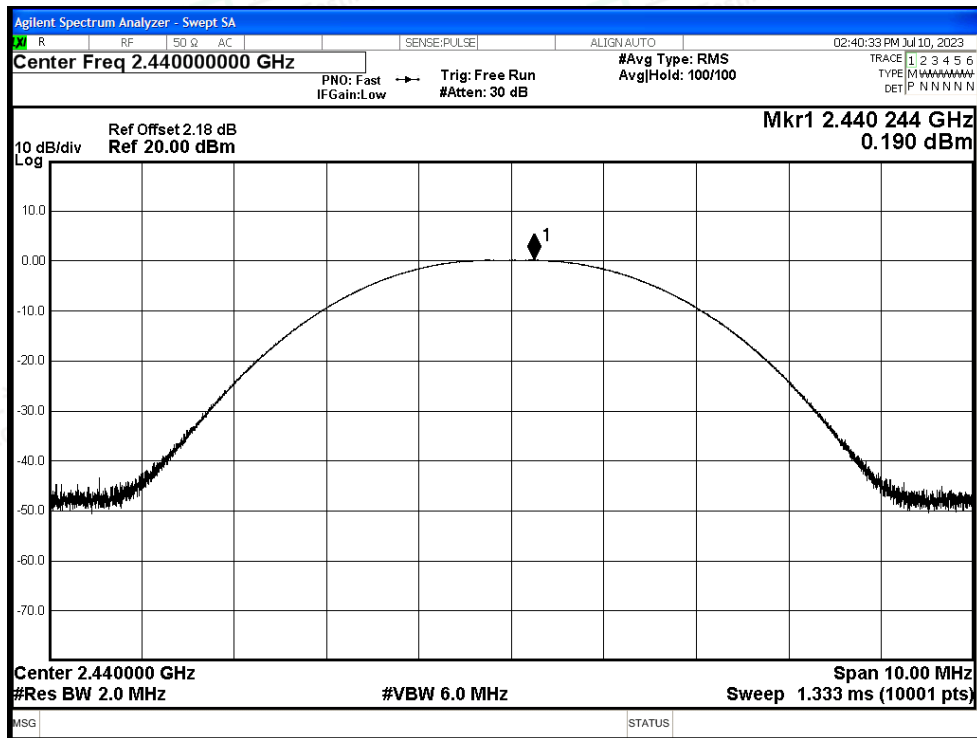


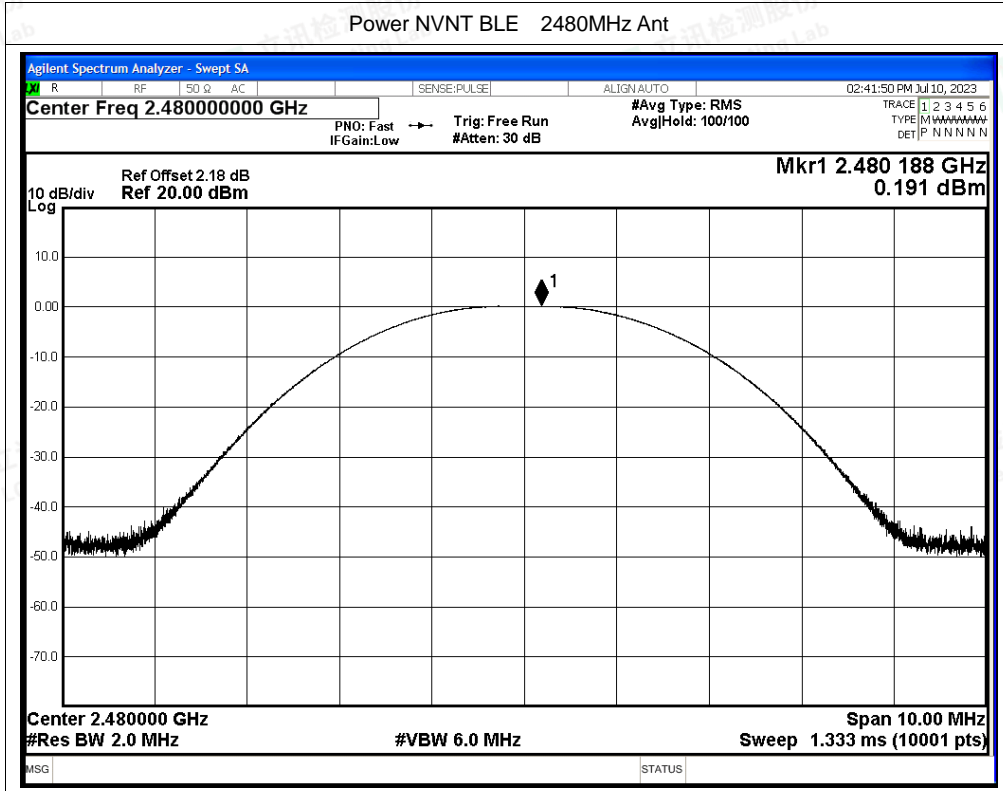
Test Graphs

Power NVNT BLE 2402MHz Ant



Power NVNT BLE 2440MHz Ant







B.3 Maximum Power Spectral Density Level

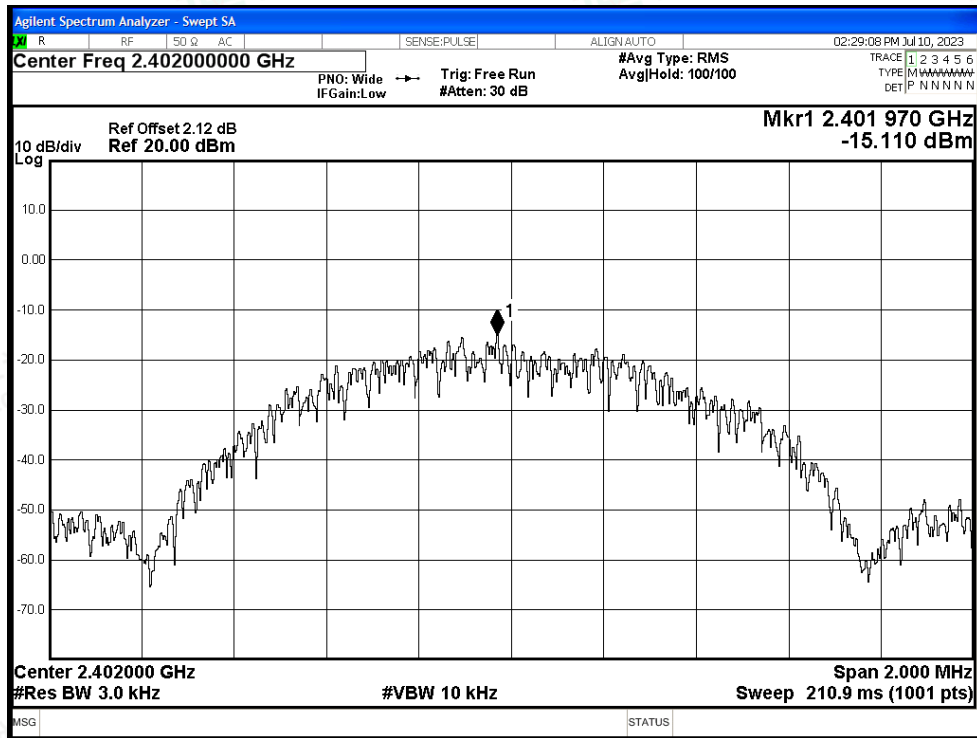
Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE	2402	Ant	-15.11	8	Pass
NVNT	BLE	2440	Ant	-14.94	8	Pass
NVNT	BLE	2480	Ant	-14.92	8	Pass



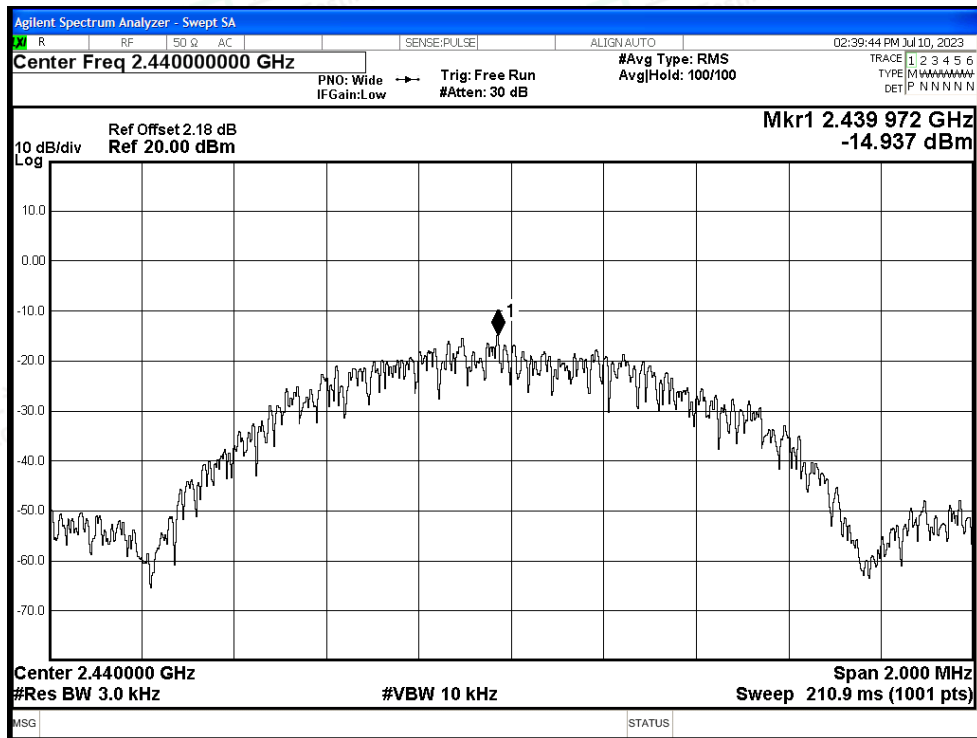


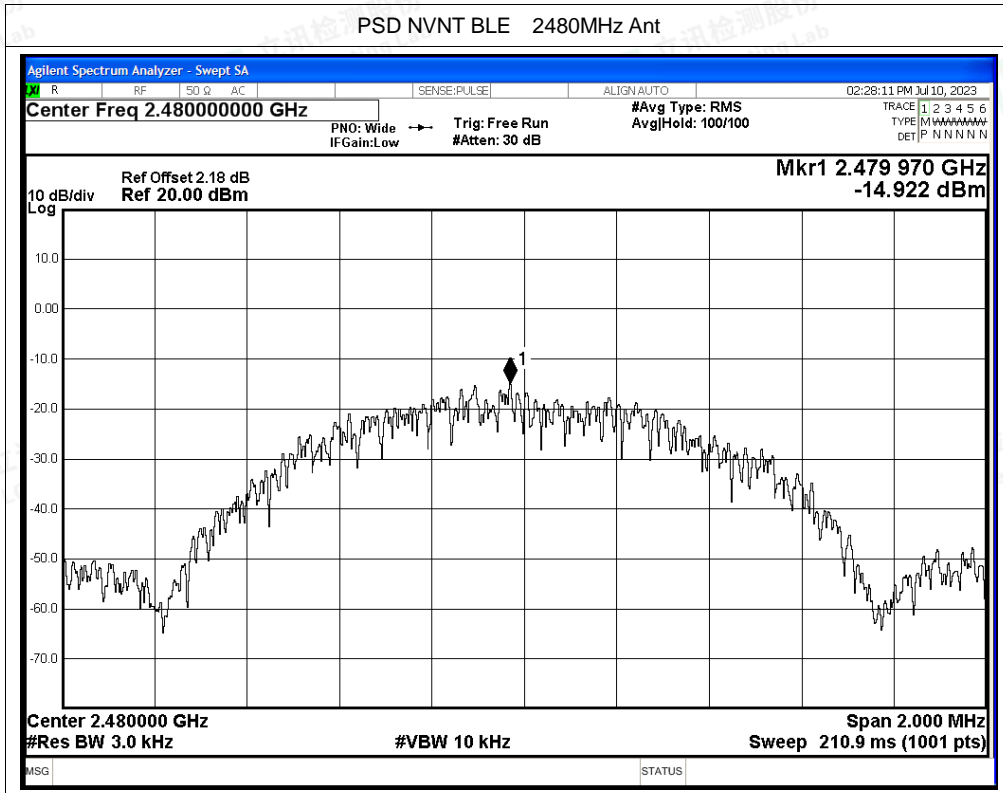
Test Graphs

PSD NVNT BLE 2402MHz Ant



PSD NVNT BLE 2440MHz Ant







B.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE	2402	Ant	-56.27	-20	Pass
NVNT	BLE	2480	Ant	-55.72	-20	Pass

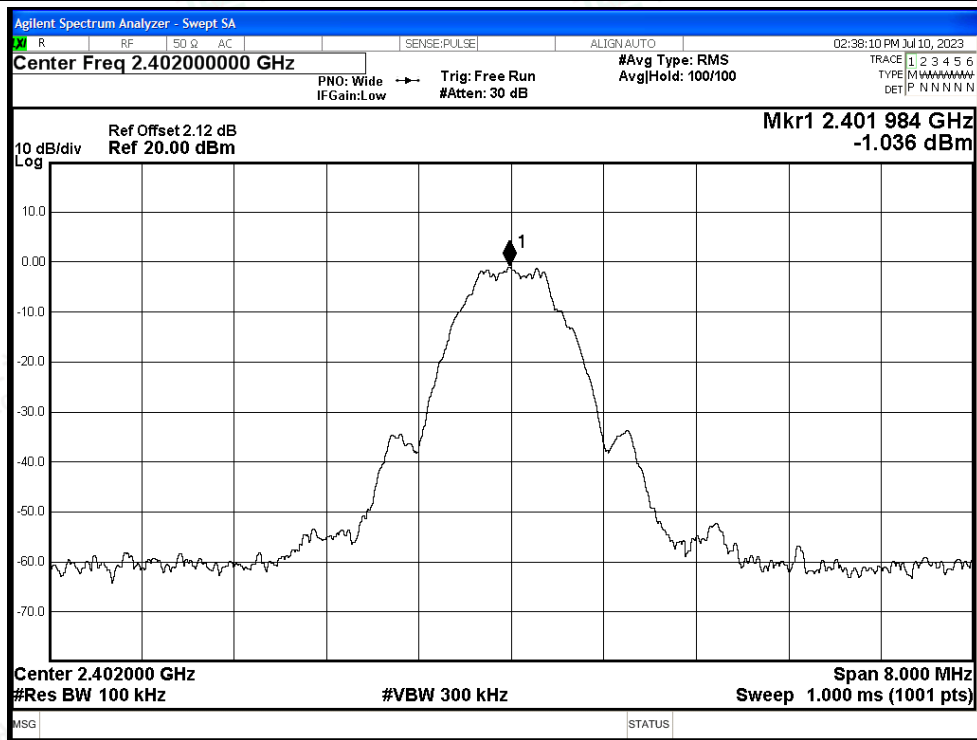


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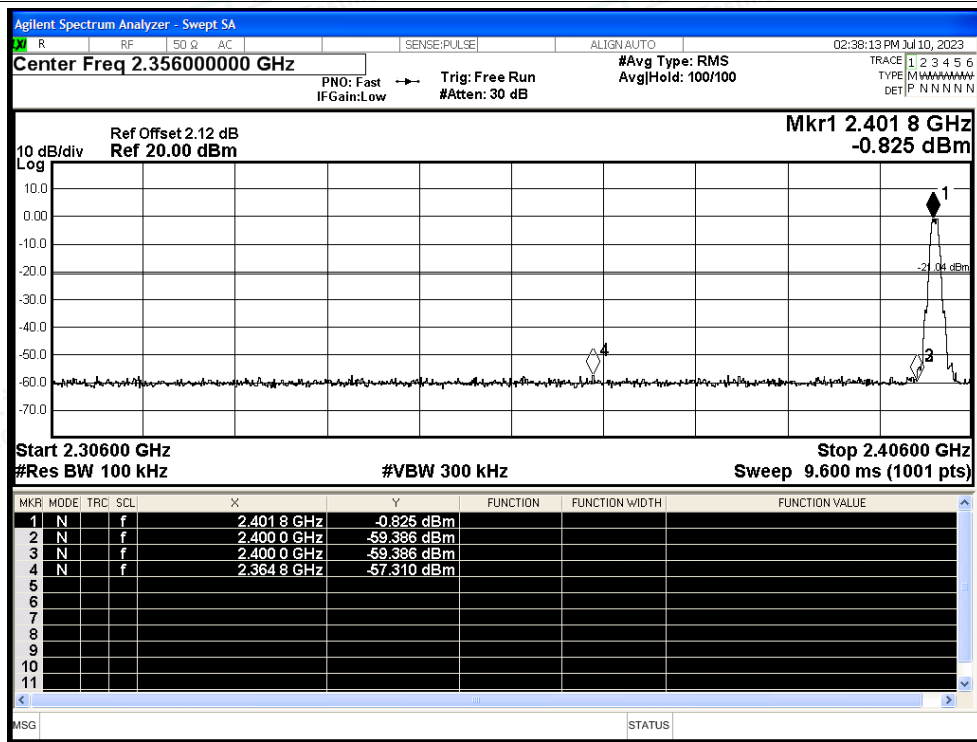


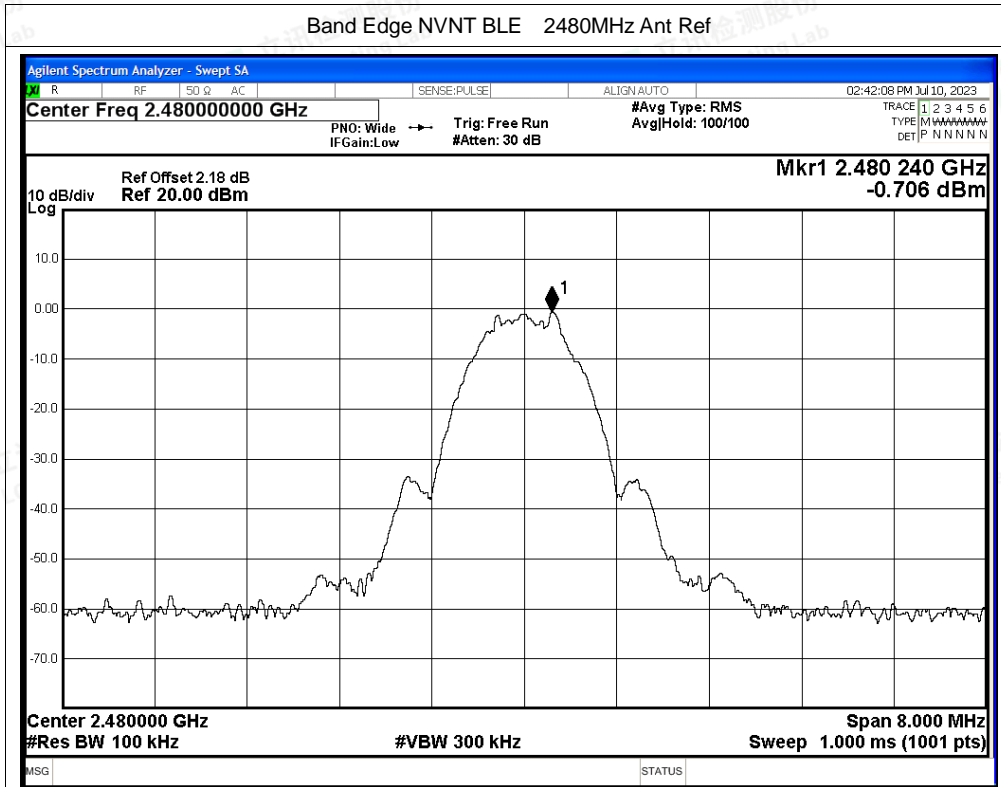
Test Graphs

Band Edge NVNT BLE 2402MHz Ant Ref

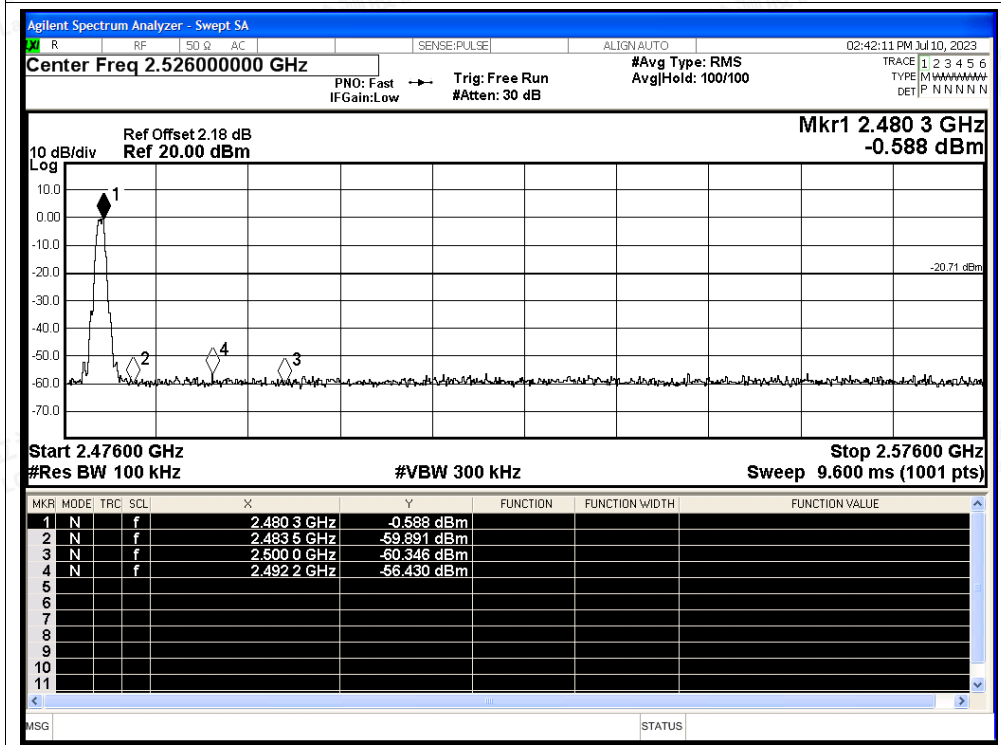


Band Edge NVNT BLE 2402MHz Ant Emission





Band Edge NVNT BLE 2480MHz Ant Emission





B.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE	2402	Ant	-53.79	-20	Pass
NVNT	BLE	2440	Ant	-54.9	-20	Pass
NVNT	BLE	2480	Ant	-54.13	-20	Pass

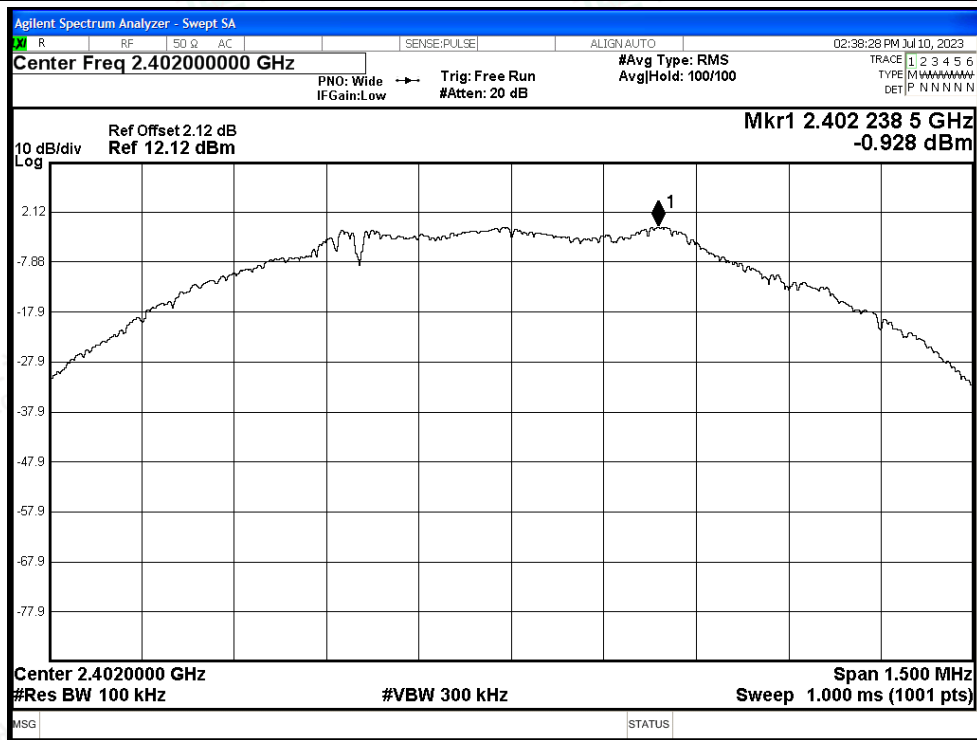


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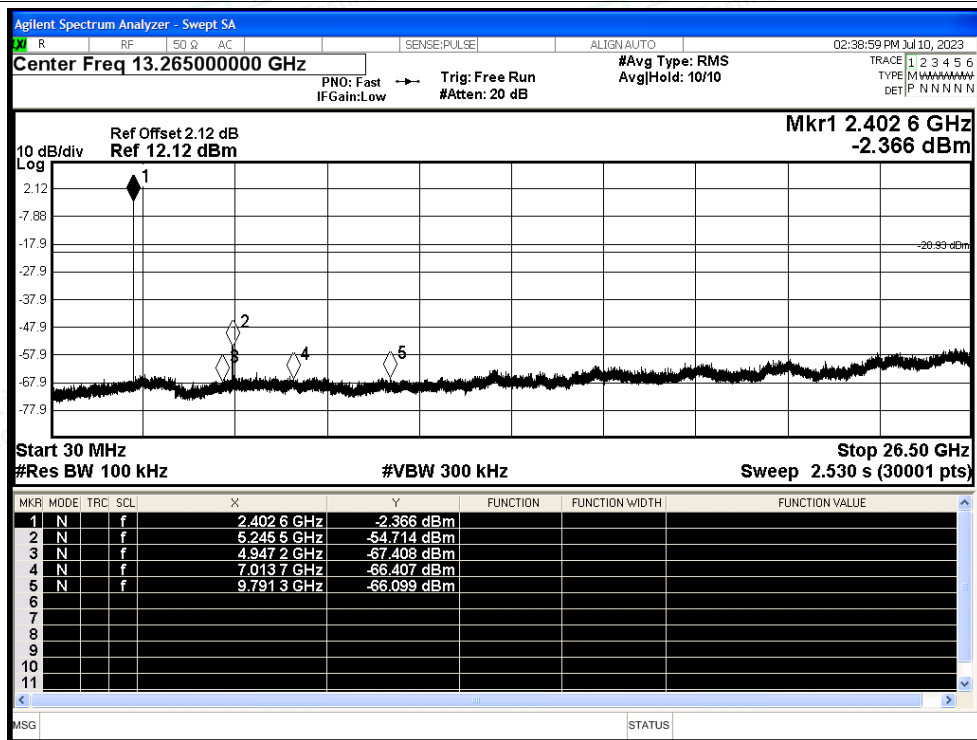


Test Graphs

Tx. Spurious NVNT BLE 2402MHz Ant Ref

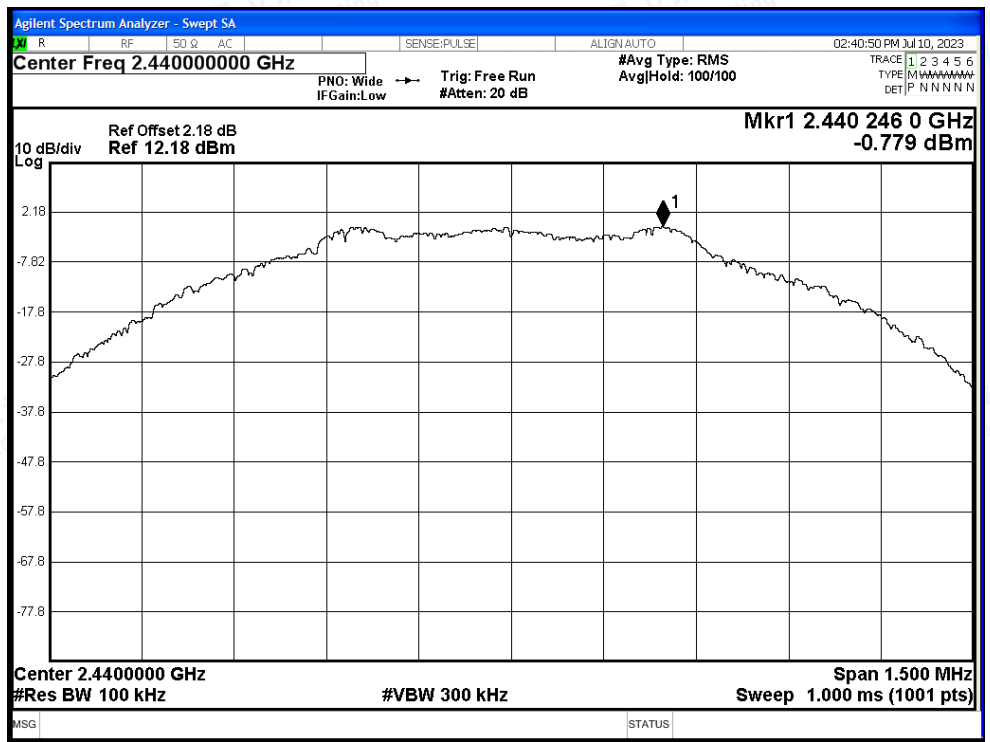


Tx. Spurious NVNT BLE 2402MHz Ant Emission

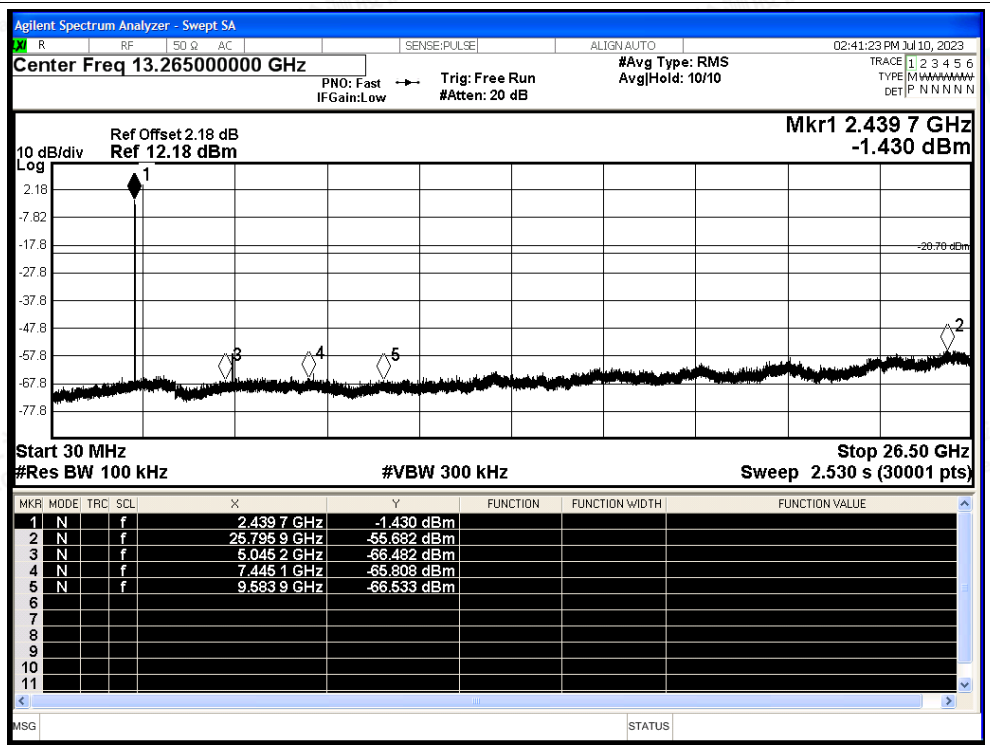


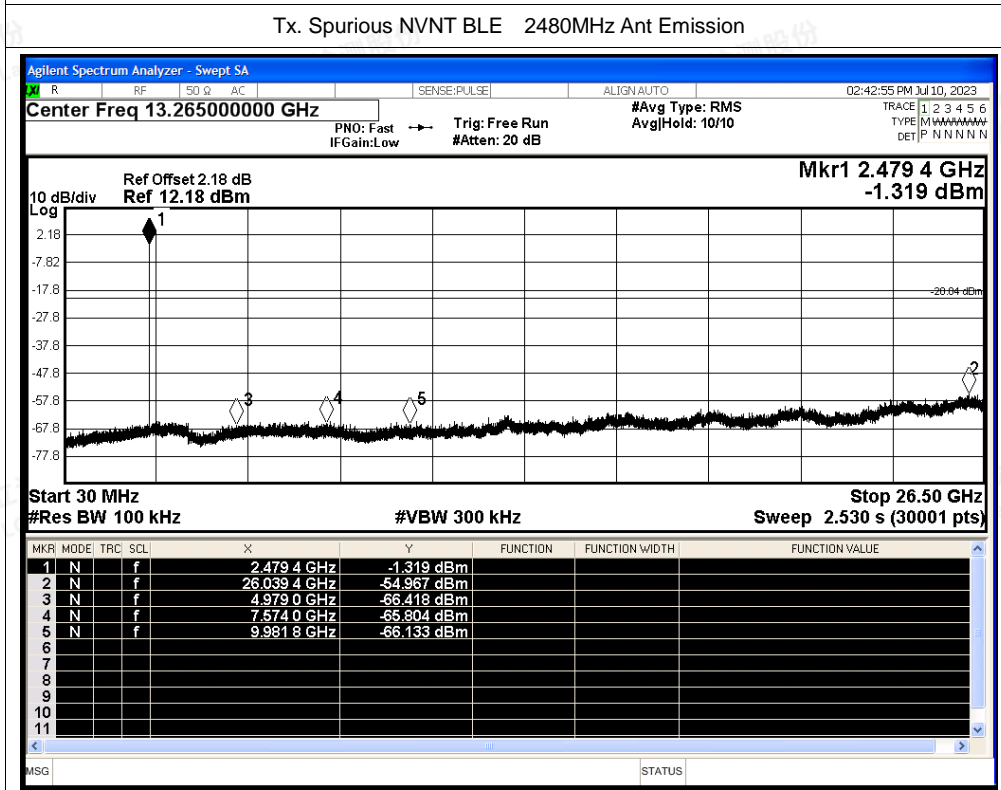
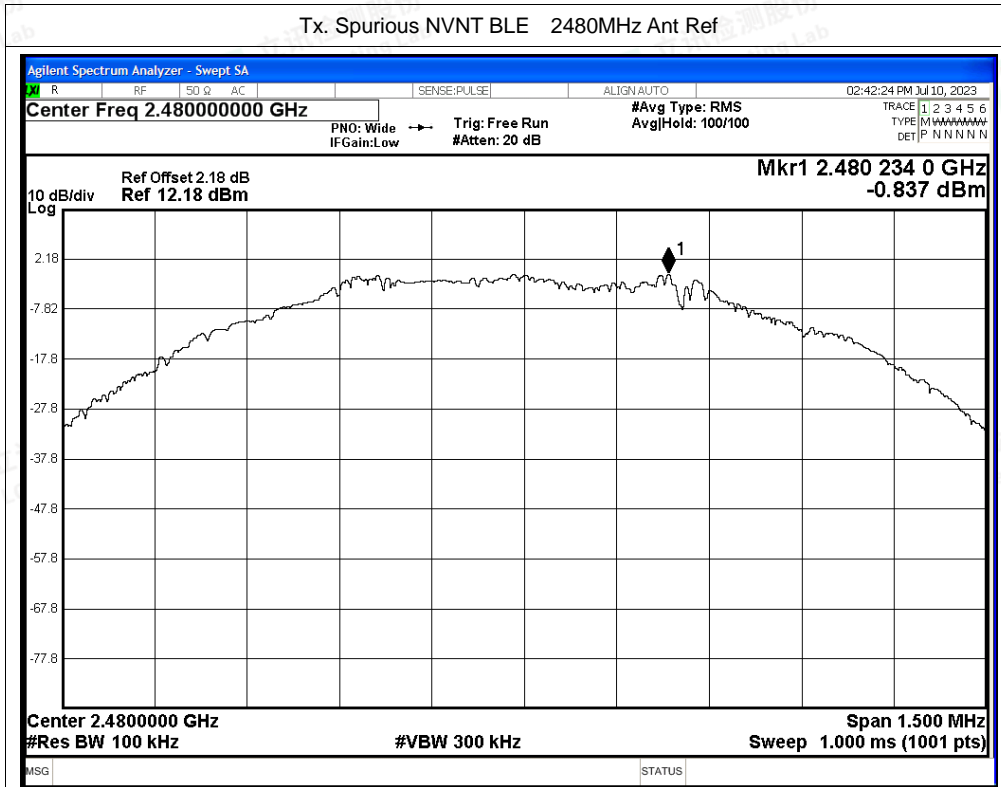


Tx. Spurious NVNT BLE 2440MHz Ant Ref



Tx. Spurious NVNT BLE 2440MHz Ant Emission





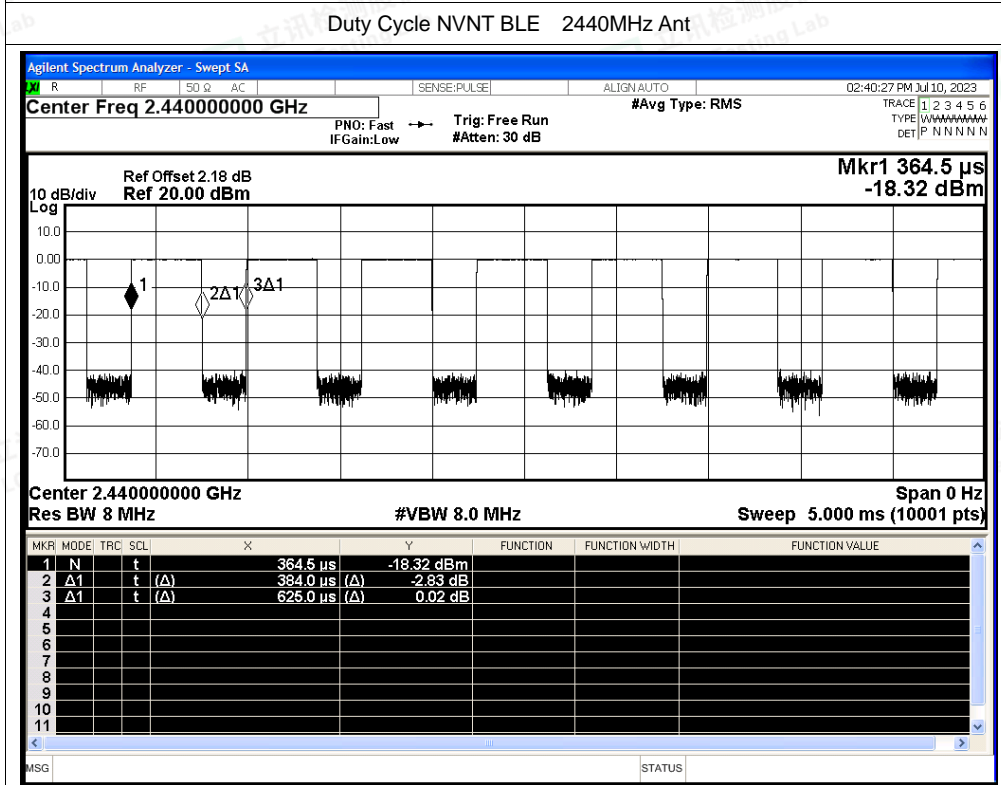
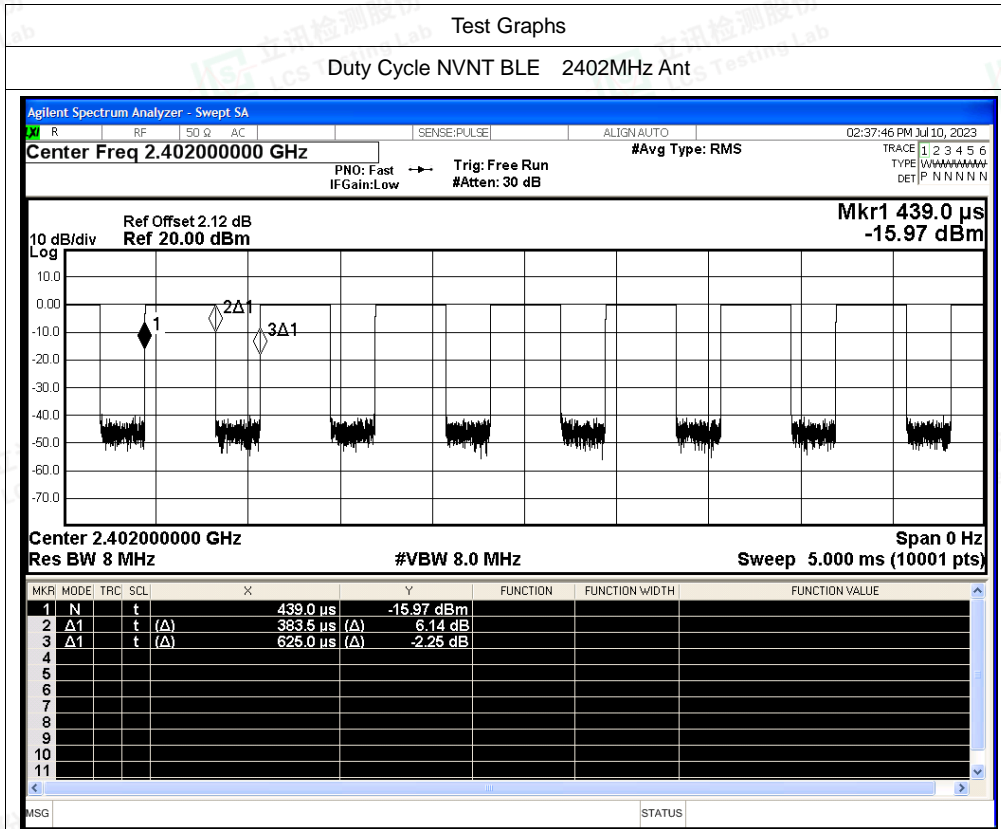


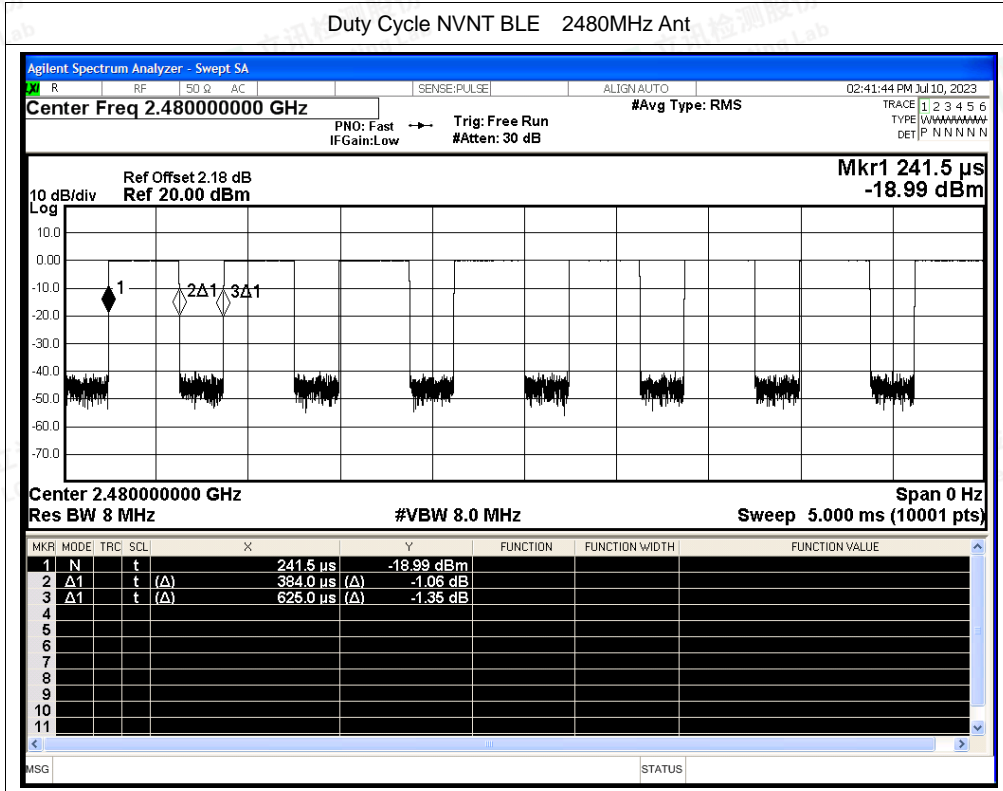
B.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE	2402	Ant	61.36	2.12	2.61
NVNT	BLE	2440	Ant	61.44	2.12	2.6
NVNT	BLE	2480	Ant	61.44	2.12	2.6



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B.7 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE	2402	Ant	2310	-50.23	2.853	47.85	Peak	74	Pass
NVNT	BLE	2402	Ant	2310	-57.31	2.853	40.77	Average	54	Pass
NVNT	BLE	2402	Ant	2374.8	-47.15	2.853	50.93	Peak	74	Pass
NVNT	BLE	2402	Ant	2386.416	-56.37	2.853	41.71	Average	54	Pass
NVNT	BLE	2402	Ant	2390	-50.27	2.853	47.81	Peak	74	Pass
NVNT	BLE	2402	Ant	2390	-56.93	2.853	41.15	Average	54	Pass
NVNT	BLE	2480	Ant	2483.5	-50.88	2.853	47.20	Peak	74	Pass
NVNT	BLE	2480	Ant	2483.5	-54.44	2.853	43.64	Average	54	Pass
NVNT	BLE	2480	Ant	2493.688	-46.96	2.853	51.12	Peak	74	Pass
NVNT	BLE	2480	Ant	2483.512	-54.44	2.853	43.64	Average	54	Pass
NVNT	BLE	2480	Ant	2500	-49.53	2.853	48.55	Peak	74	Pass
NVNT	BLE	2480	Ant	2500	-56.32	2.853	41.76	Average	54	Pass



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