

Appendix B

RF Test Data for 2.4G (Conducted Measurement)

2D Barcode scanner

Test Model: J15B

Environmental Conditions

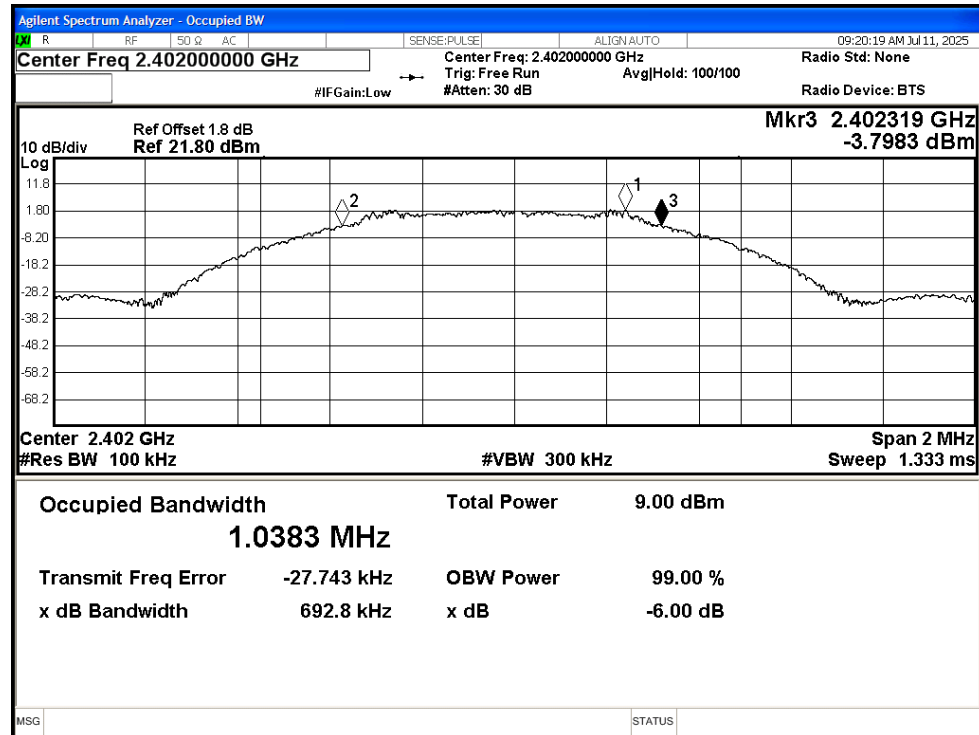
Temperature:	23.8°C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Jone.Lee
Supervised by:	Yan Chen

B.1 -6dB Bandwidth

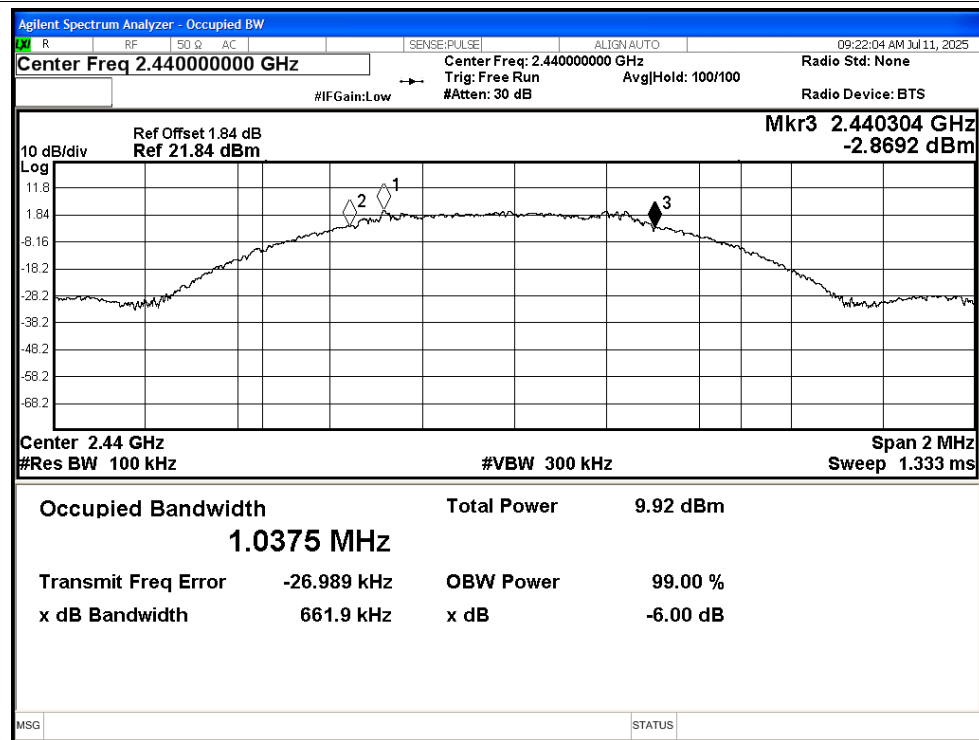
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	2.4G	2402	Ant1	0.693	>=0.5	Pass
NVNT	2.4G	2440	Ant1	0.662	>=0.5	Pass
NVNT	2.4G	2478	Ant1	0.68	>=0.5	Pass

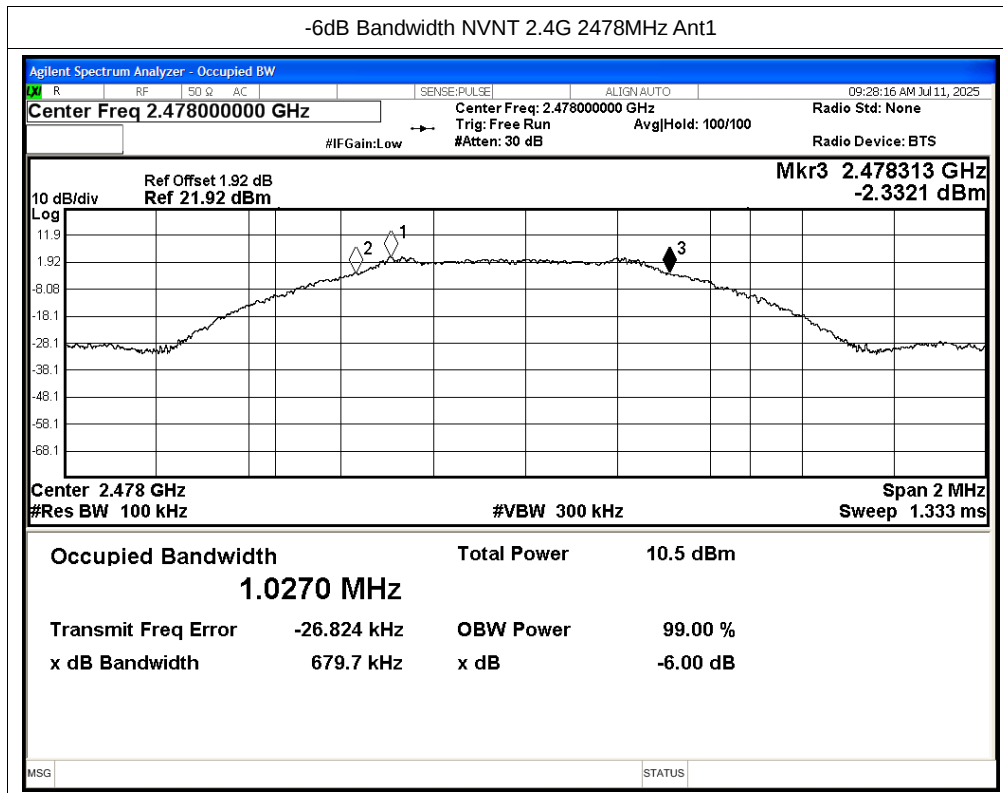
Test Graphs

-6dB Bandwidth NVNT 2.4G 2402MHz Ant1



-6dB Bandwidth NVNT 2.4G 2440MHz Ant1



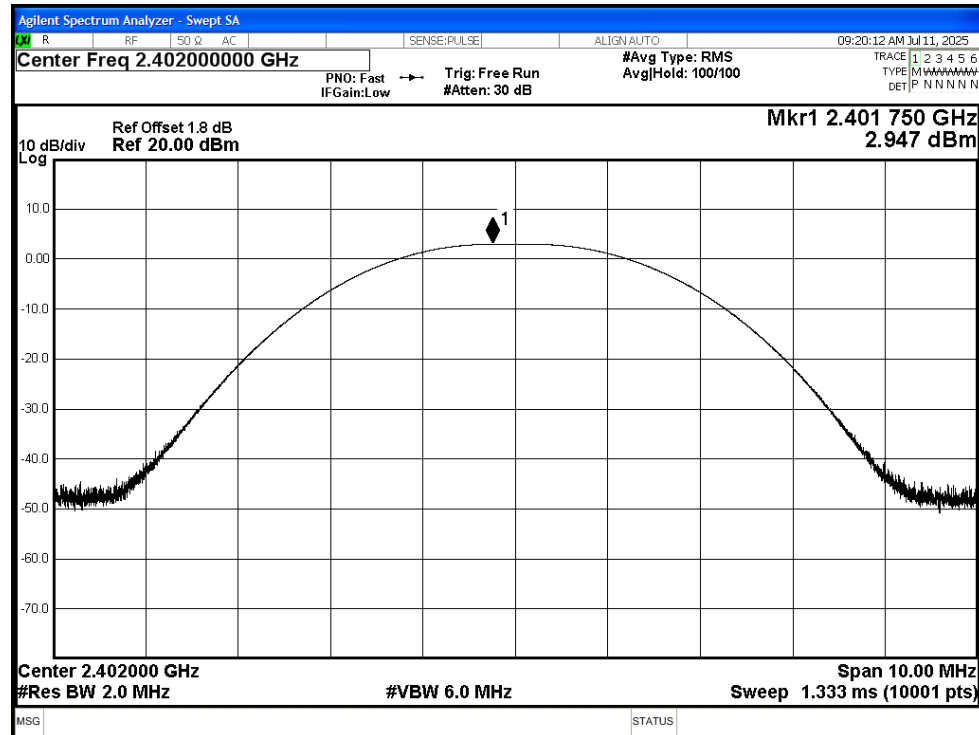


B.2 Maximum Peak Conducted Output Power

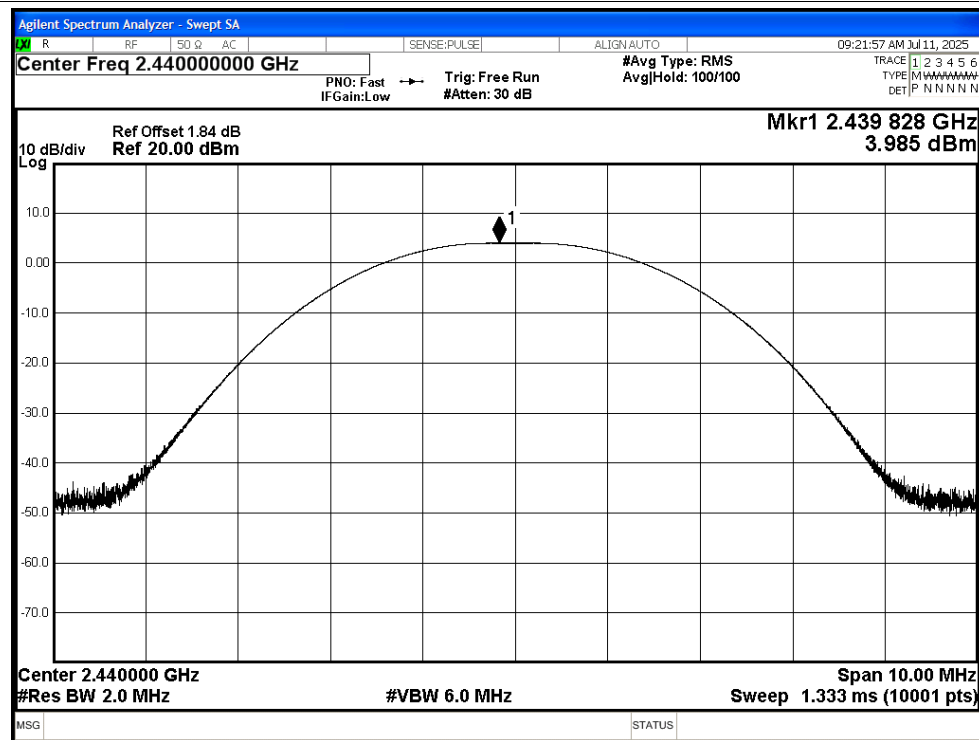
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	2.4G	2402	Ant1	2.95	30	Pass
NVNT	2.4G	2440	Ant1	3.99	30	Pass
NVNT	2.4G	2478	Ant1	4.35	30	Pass

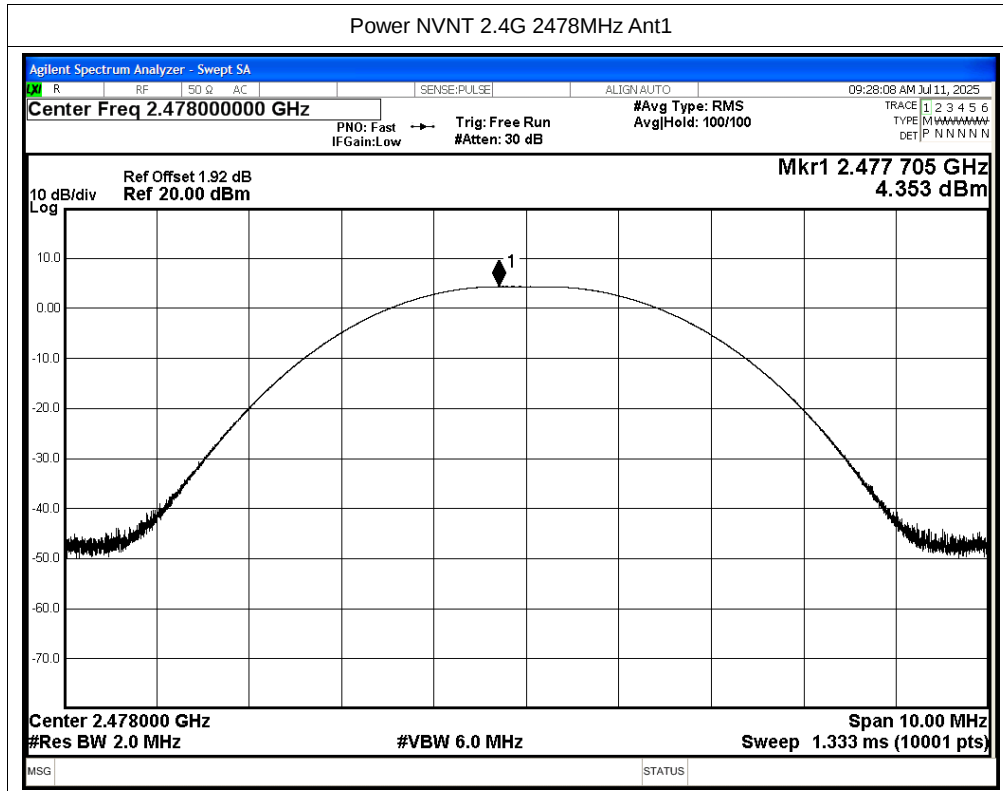
Test Graphs

Power NVNT 2.4G 2402MHz Ant1



Power NVNT 2.4G 2440MHz Ant1



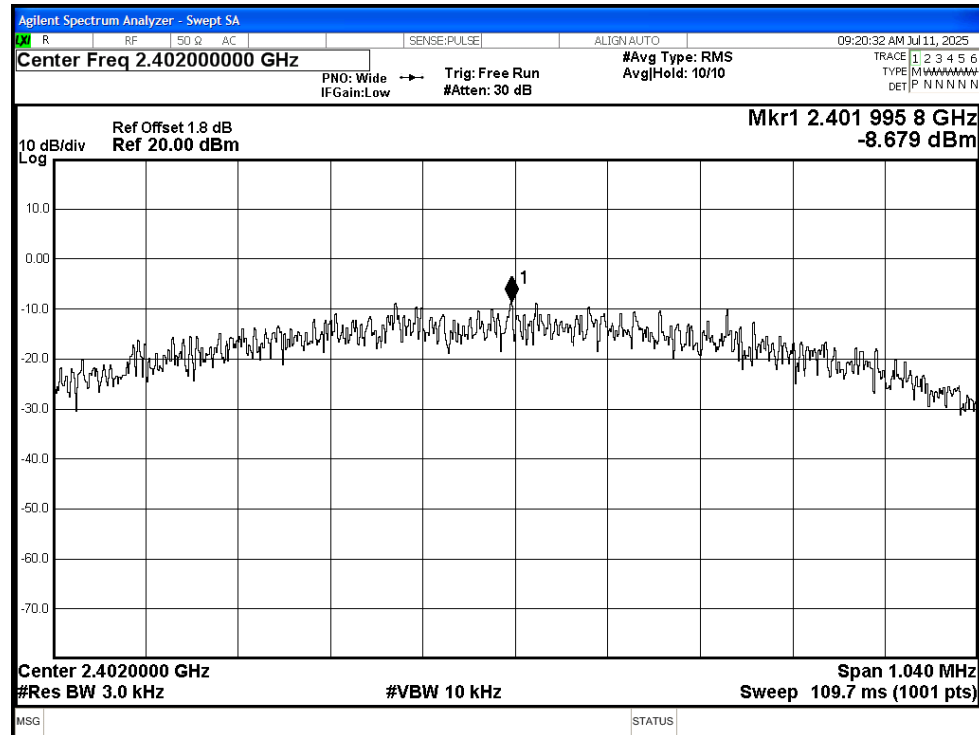


B.3 Maximum Power Spectral Density Level

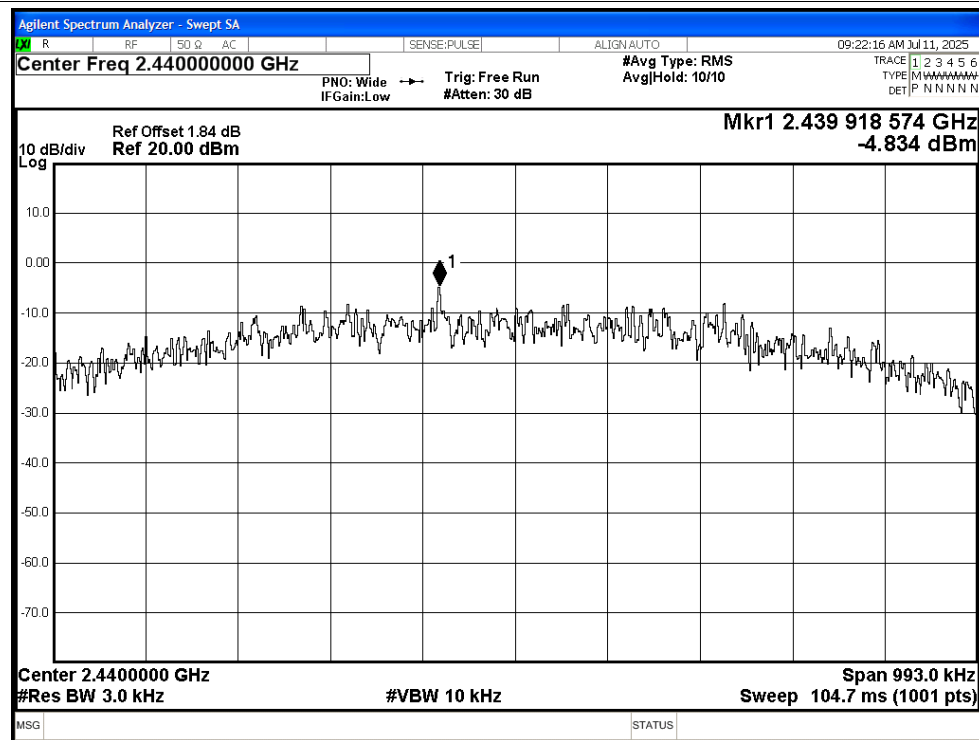
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	2.4G	2402	Ant1	-8.68	8	Pass
NVNT	2.4G	2440	Ant1	-4.83	8	Pass
NVNT	2.4G	2478	Ant1	-7.76	8	Pass

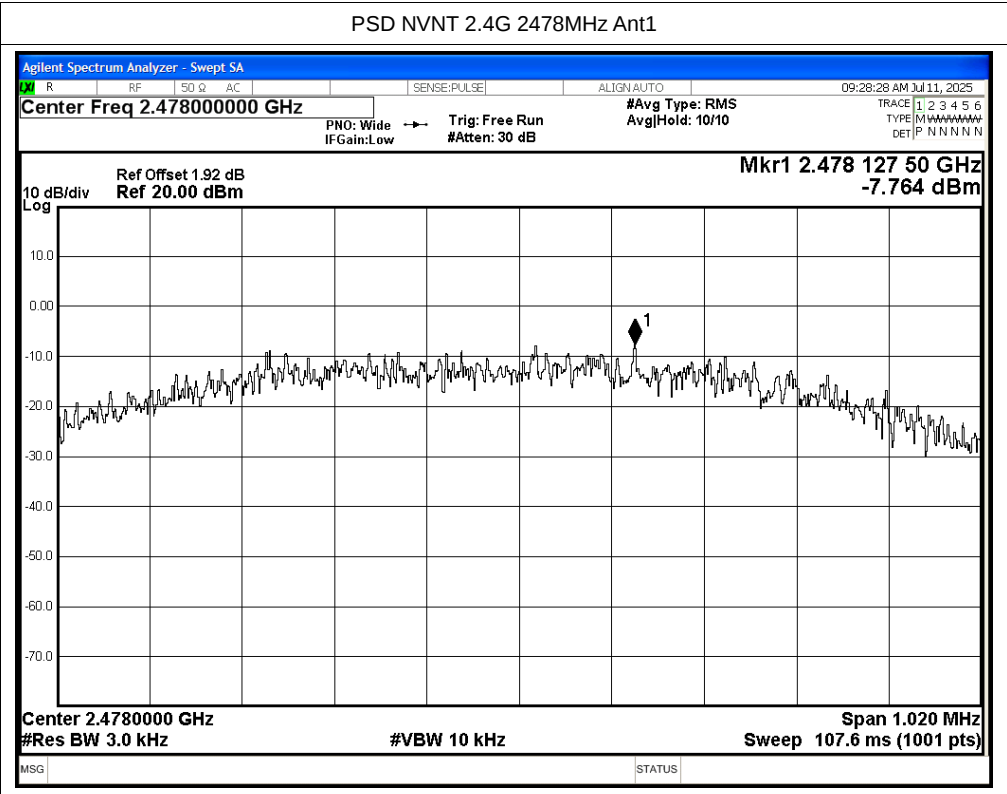
Test Graphs

PSD NVNT 2.4G 2402MHz Ant1



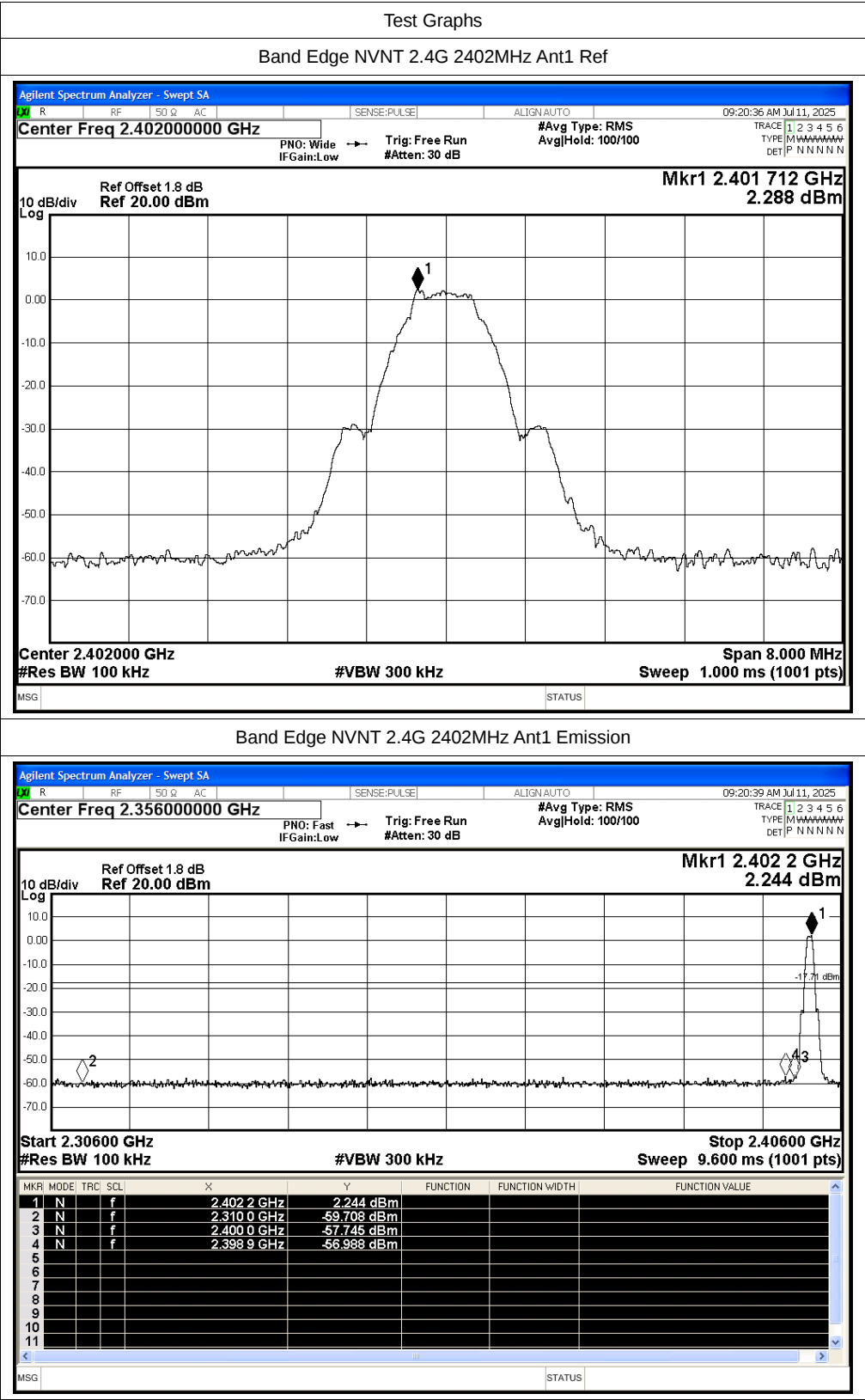
PSD NVNT 2.4G 2440MHz Ant1

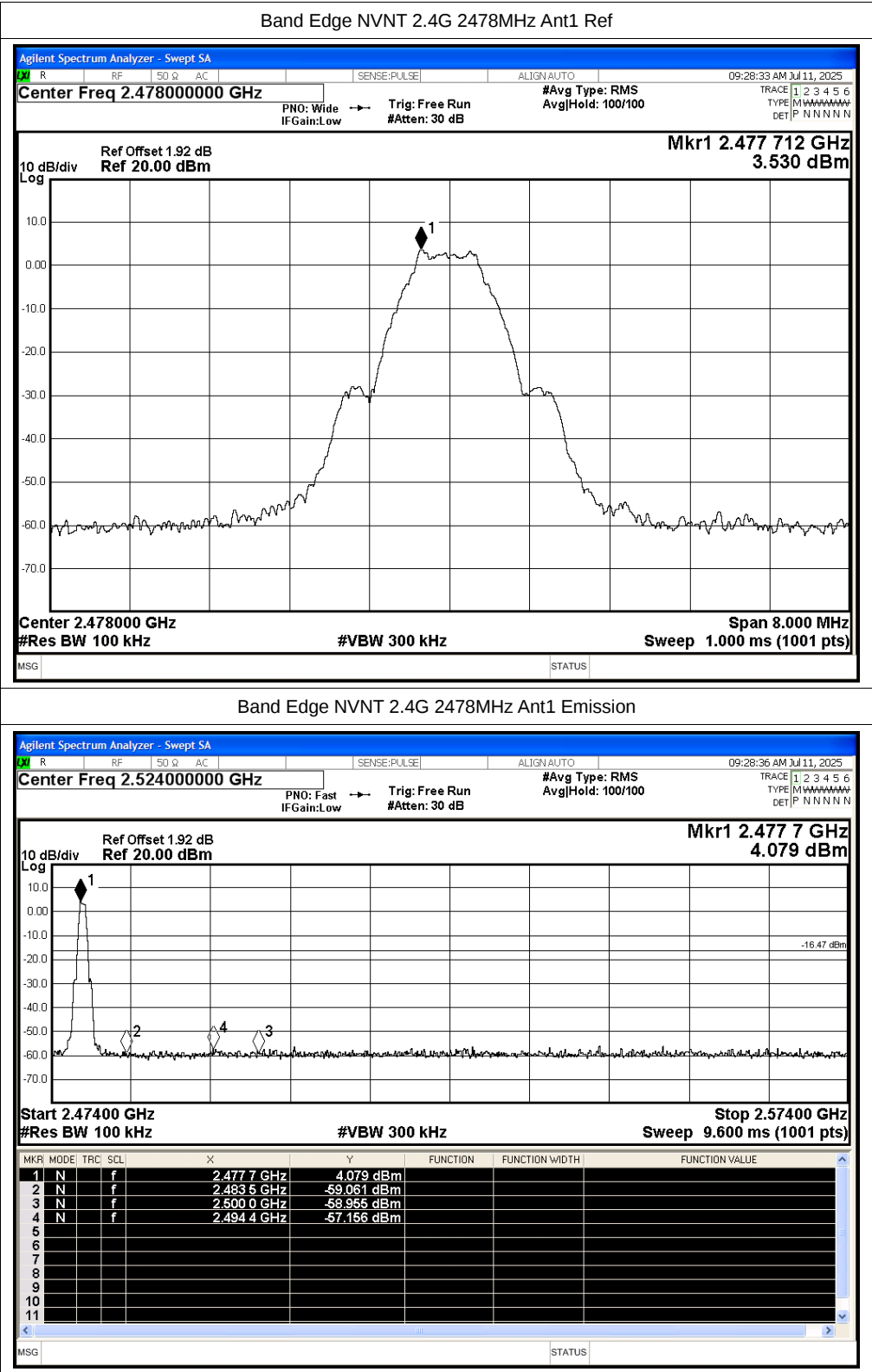




B.4 Band Edge

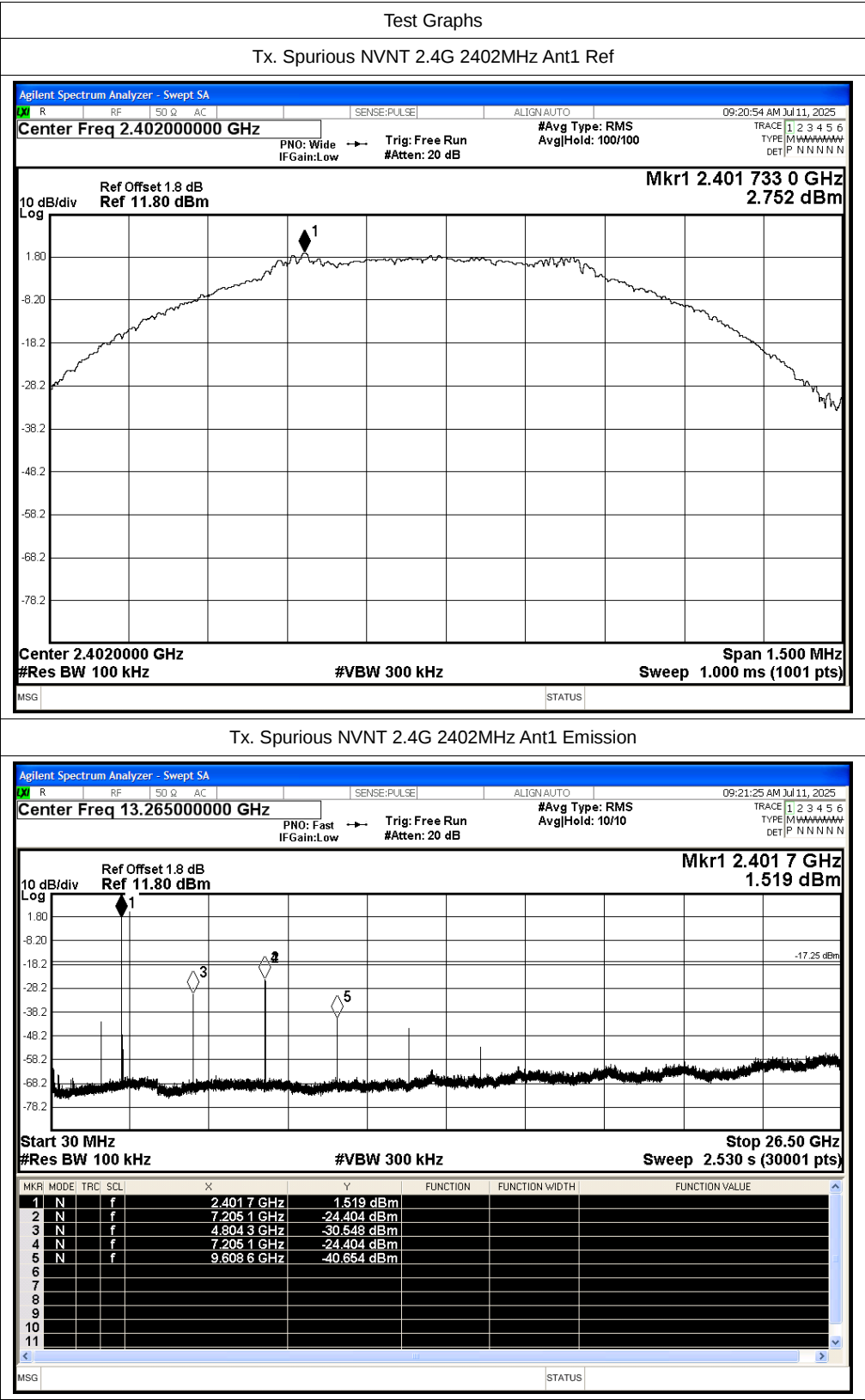
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2.4G	2402	Ant1	-59.28	-20	Pass
NVNT	2.4G	2478	Ant1	-60.69	-20	Pass

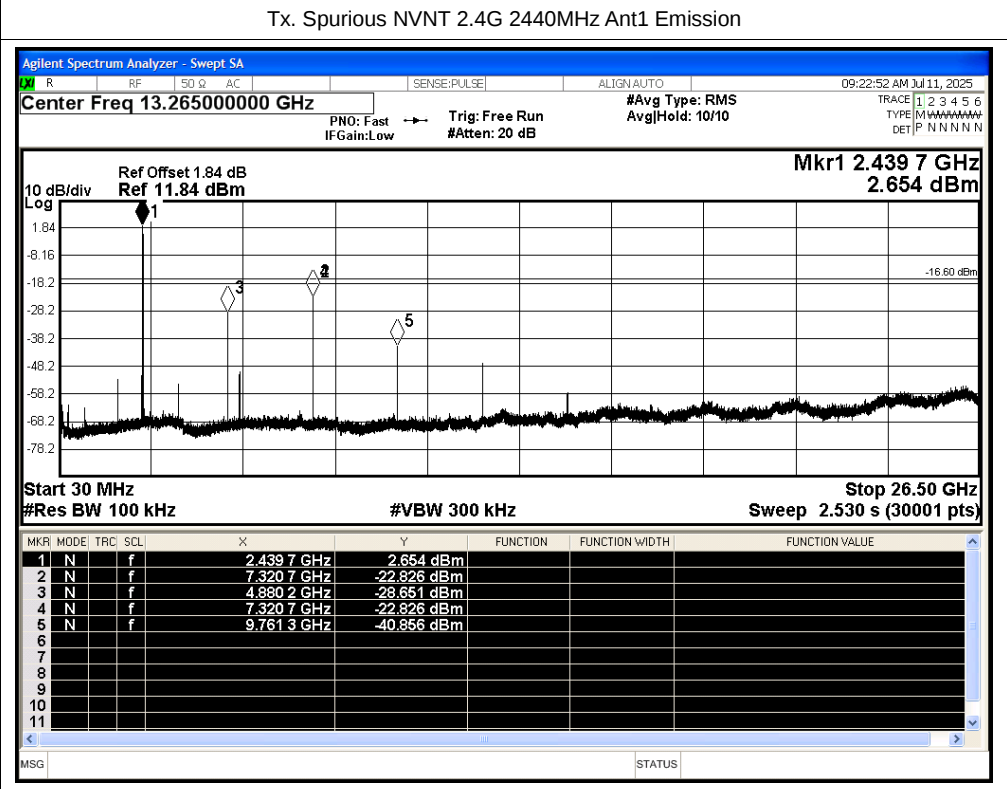
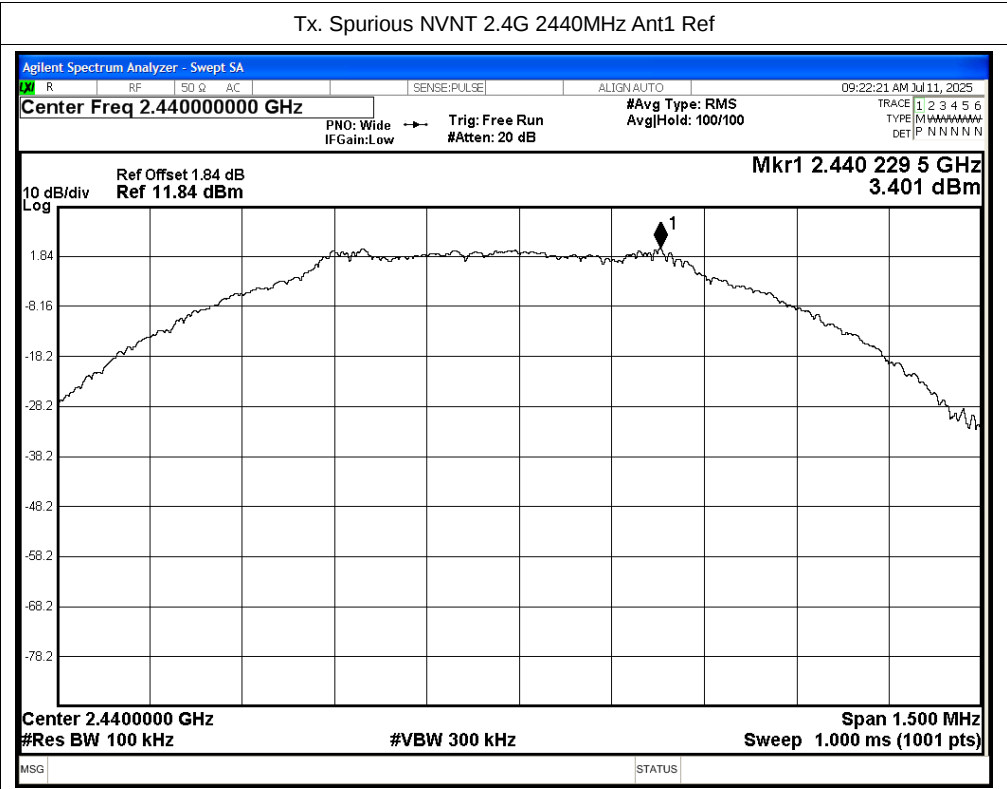


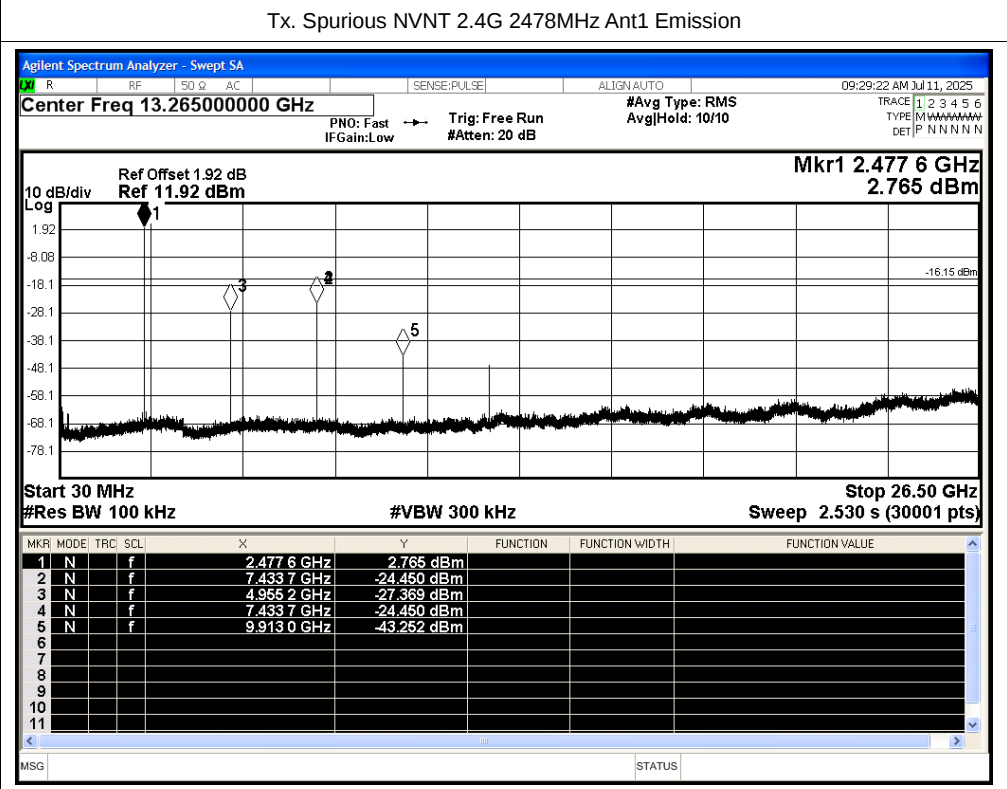
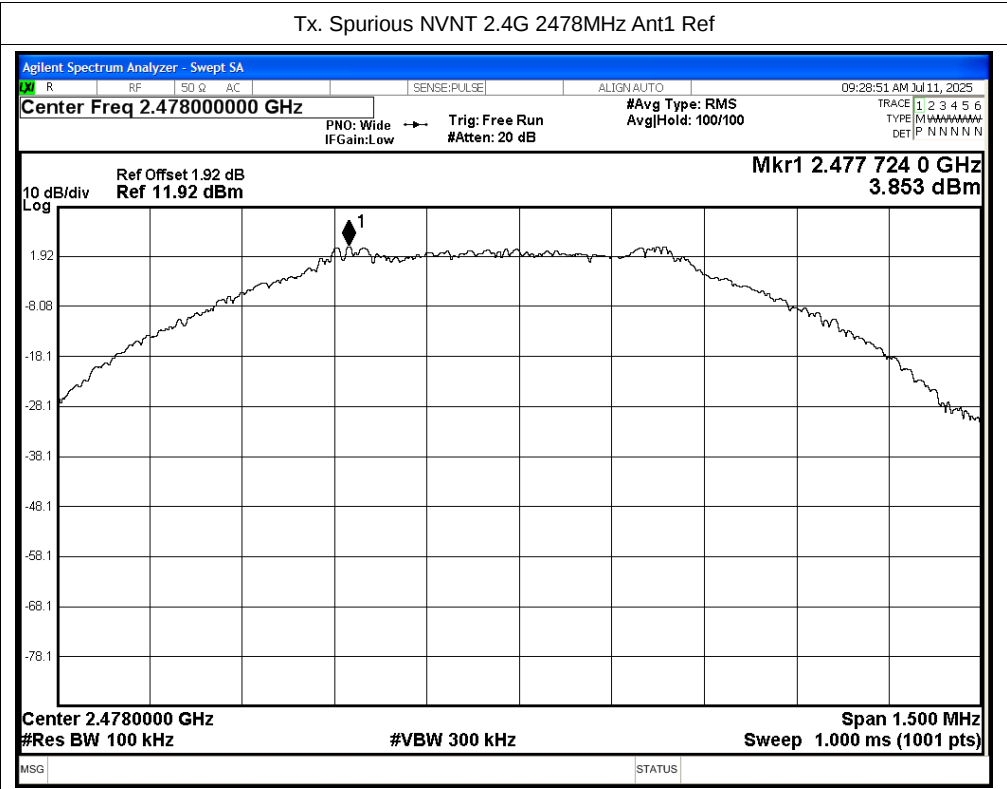


B.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2.4G	2402	Ant1	-27.16	-20	Pass
NVNT	2.4G	2440	Ant1	-26.23	-20	Pass
NVNT	2.4G	2478	Ant1	-28.3	-20	Pass





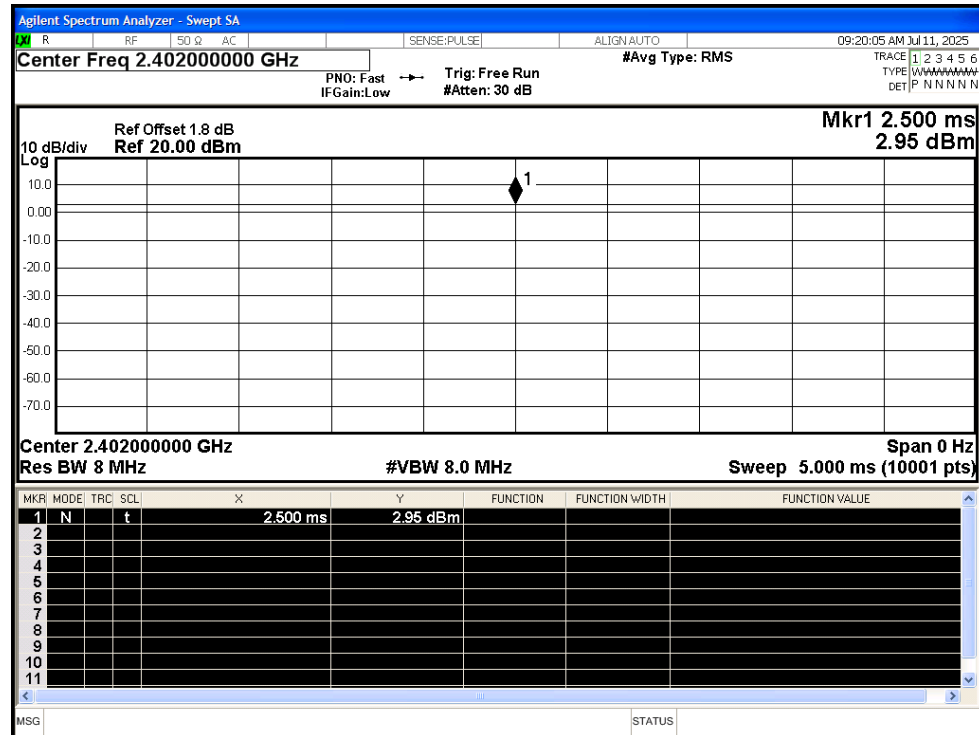


B.6 Duty Cycle

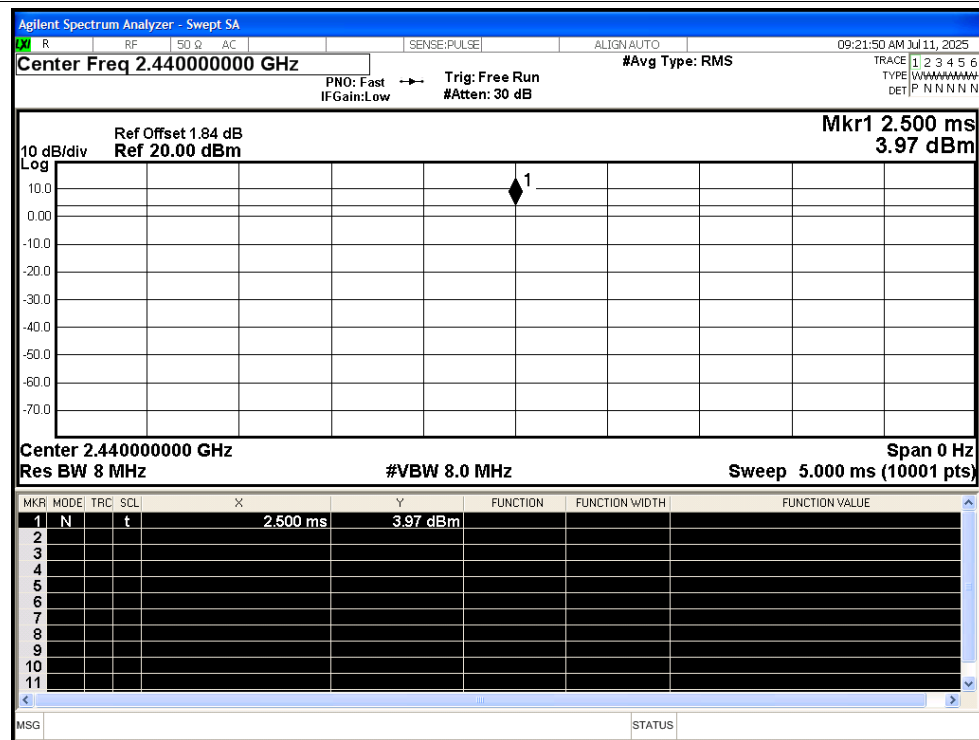
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	2.4G	2402	Ant1	100	0	0
NVNT	2.4G	2440	Ant1	100	0	0
NVNT	2.4G	2478	Ant1	100	0	0

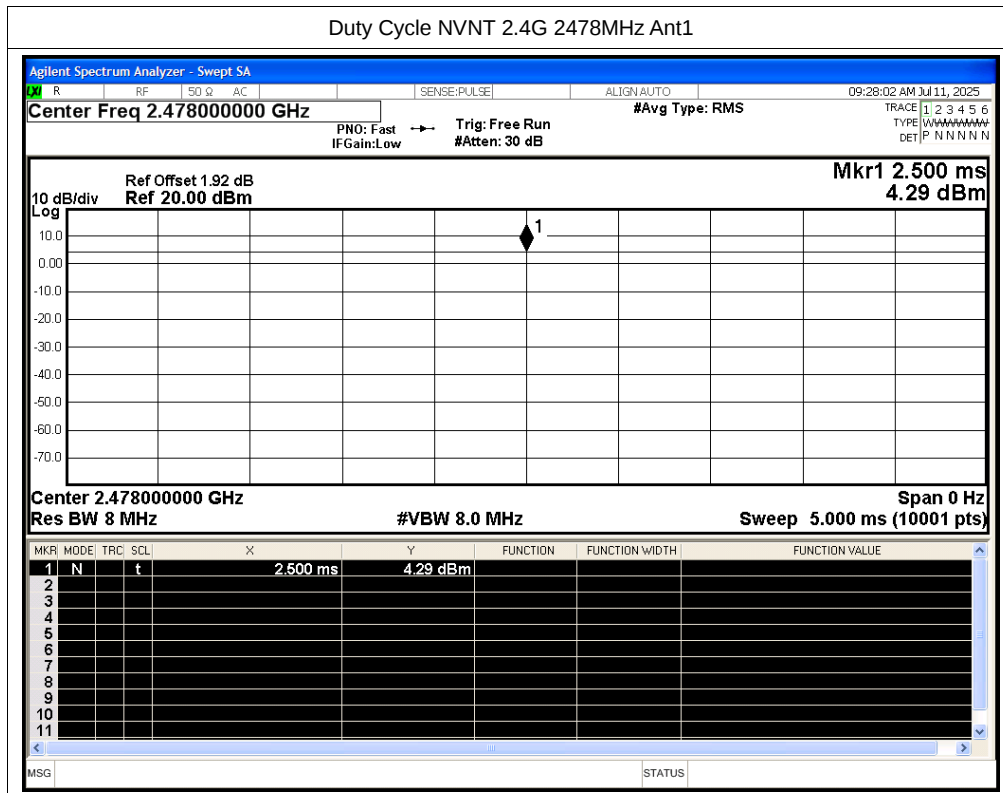
Test Graphs

Duty Cycle NVNT 2.4G 2402MHz Ant1



Duty Cycle NVNT 2.4G 2440MHz Ant1





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	2.4G	2402	Ant1	2310	-50.45	3.00	-	47.81	Peak	74	Pass
NVNT	2.4G	2402	Ant1	2310	-58.75	3.00	0	39.51	Average	54	Pass
NVNT	2.4G	2402	Ant1	2379.6	-47.27	3.00	-	50.99	Peak	74	Pass
NVNT	2.4G	2402	Ant1	2353.968	-58.25	3.00	0	40.01	Average	54	Pass
NVNT	2.4G	2402	Ant1	2390	-50.13	3.00	-	48.13	Peak	74	Pass
NVNT	2.4G	2402	Ant1	2390	-58.75	3.00	0	39.51	Average	54	Pass
NVNT	2.4G	2478	Ant1	2483.5	-49.73	3.00	-	48.53	Peak	74	Pass
NVNT	2.4G	2478	Ant1	2483.5	-58.12	3.00	0	40.14	Average	54	Pass
NVNT	2.4G	2478	Ant1	2484.296	-47.07	3.00	-	51.19	Peak	74	Pass
NVNT	2.4G	2478	Ant1	2497.348	-57.65	3.00	0	40.61	Average	54	Pass
NVNT	2.4G	2478	Ant1	2500	-48.55	3.00	-	49.71	Peak	74	Pass
NVNT	2.4G	2478	Ant1	2500	-58.12	3.00	0	40.14	Average	54	Pass

