

Appendix A

RF Test Data for 2.4G (Conducted Measurement)

Product Name: Allcomm Full-Duplex Intercom System

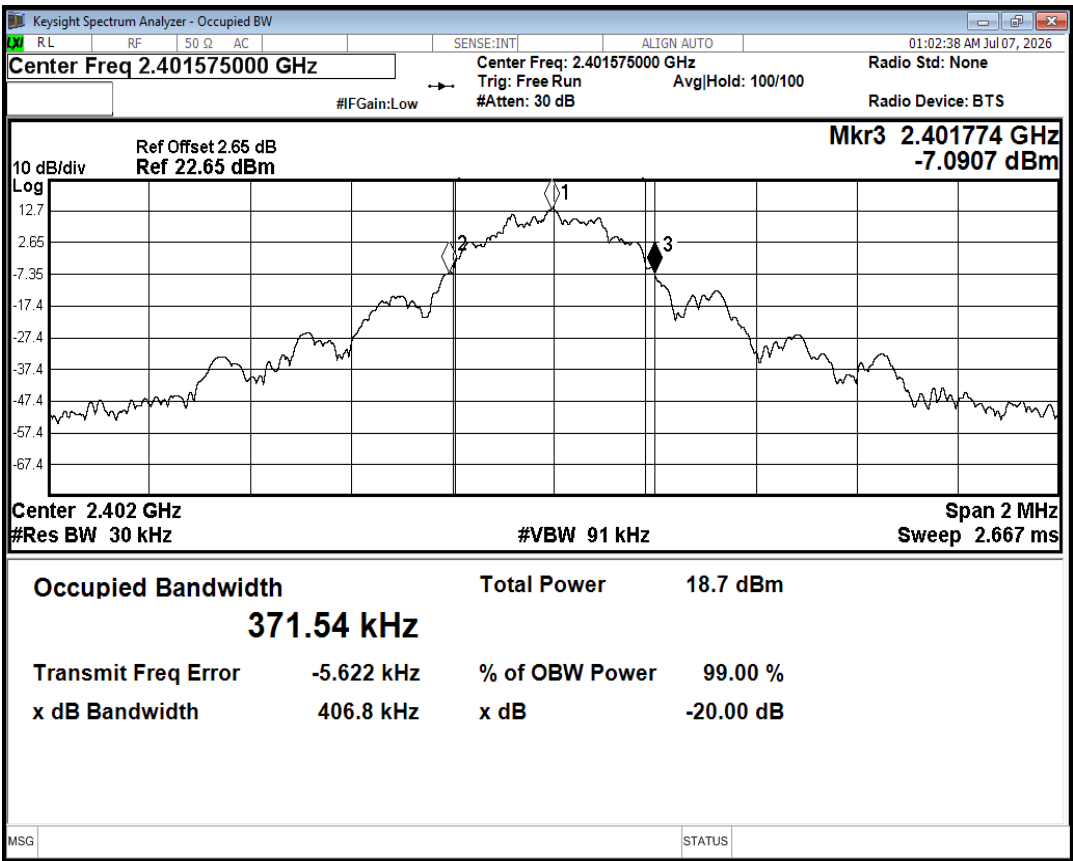
Test Model: 290-0010

Environmental Conditions

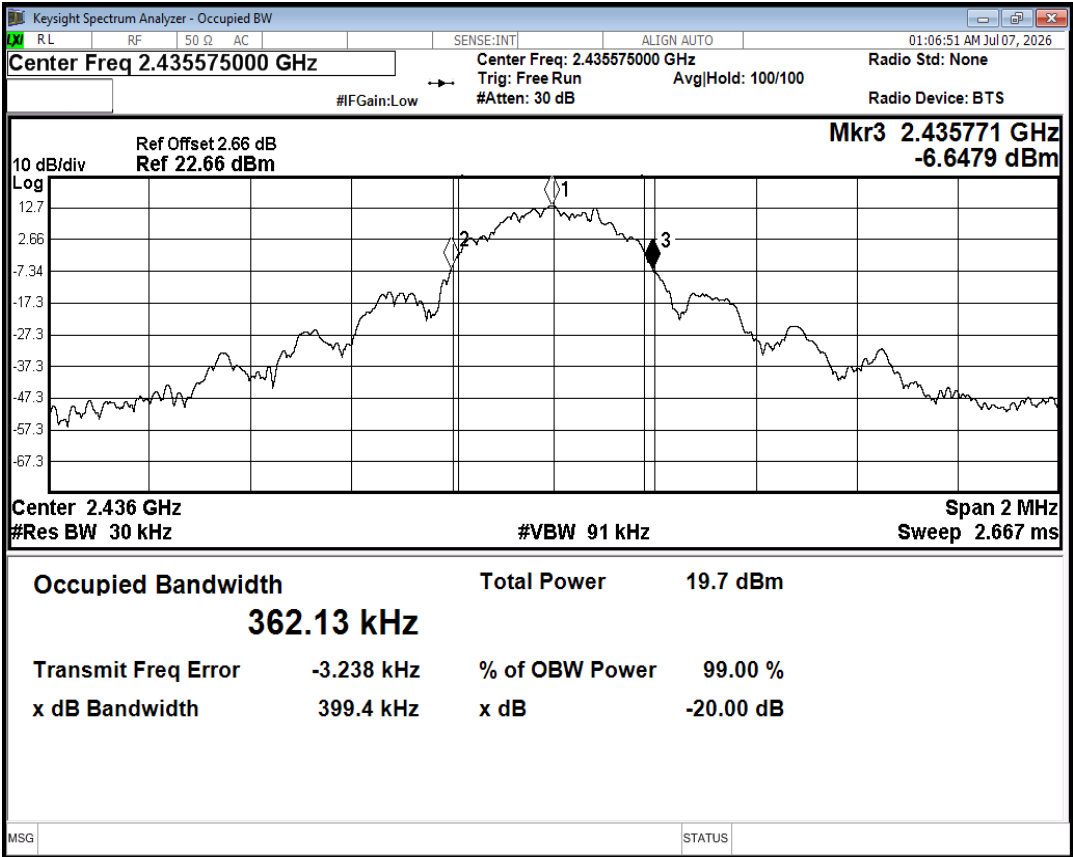
Temperature:	23.5°C
Relative Humidity:	52.9%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhao Xing Hai
Supervised by:	Fengliu Tang

A.1 -20dB Bandwidth

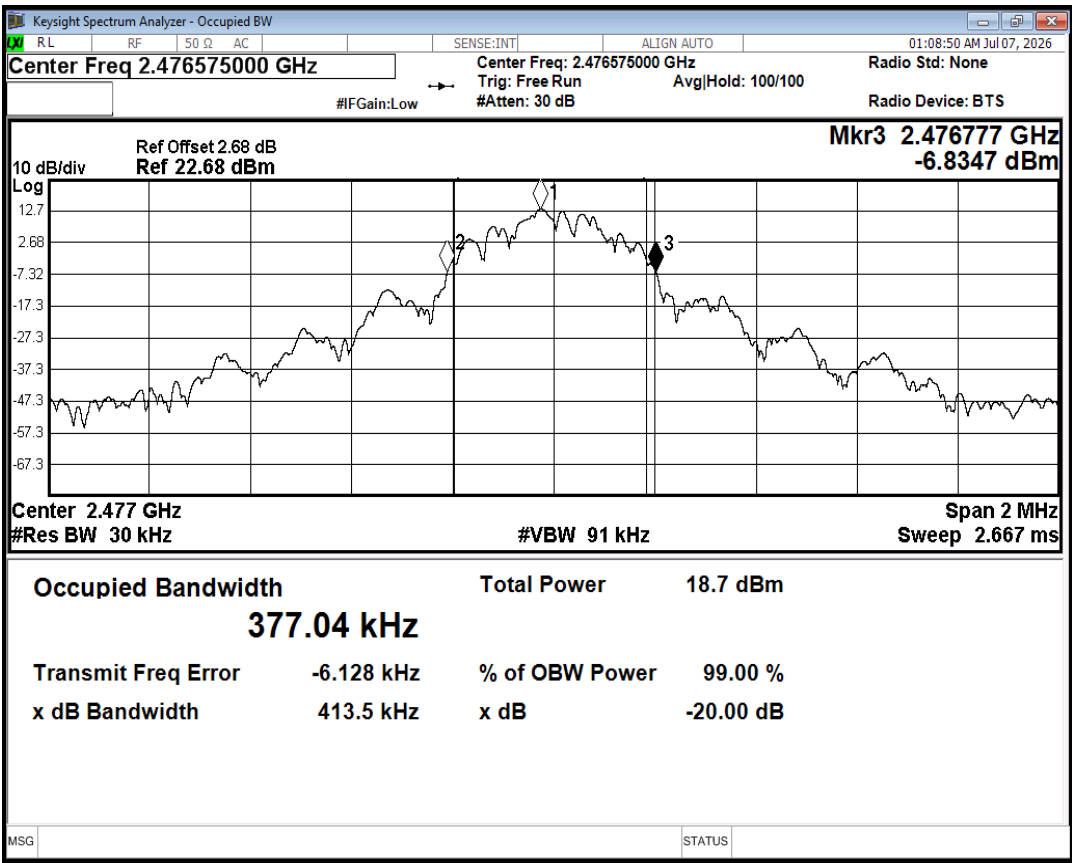
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	2.4G	2401.575	Ant1	0.4068	0	Pass
NVNT	2.4G	2435.575	Ant1	0.3994	0	Pass
NVNT	2.4G	2476.575	Ant1	0.4135	0	Pass



-20dB Bandwidth NVNT 2.4G 2401.575MHz Ant1



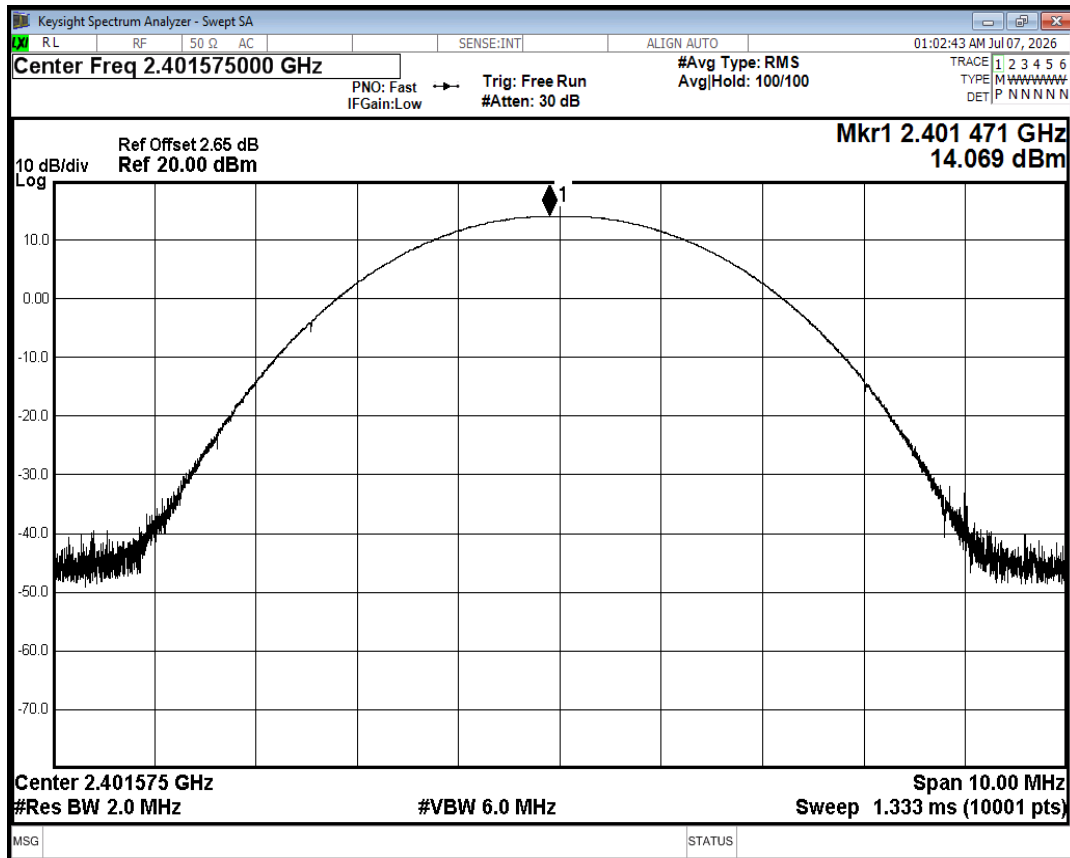
-20dB Bandwidth NVNT 2.4G 2435.575MHz Ant1



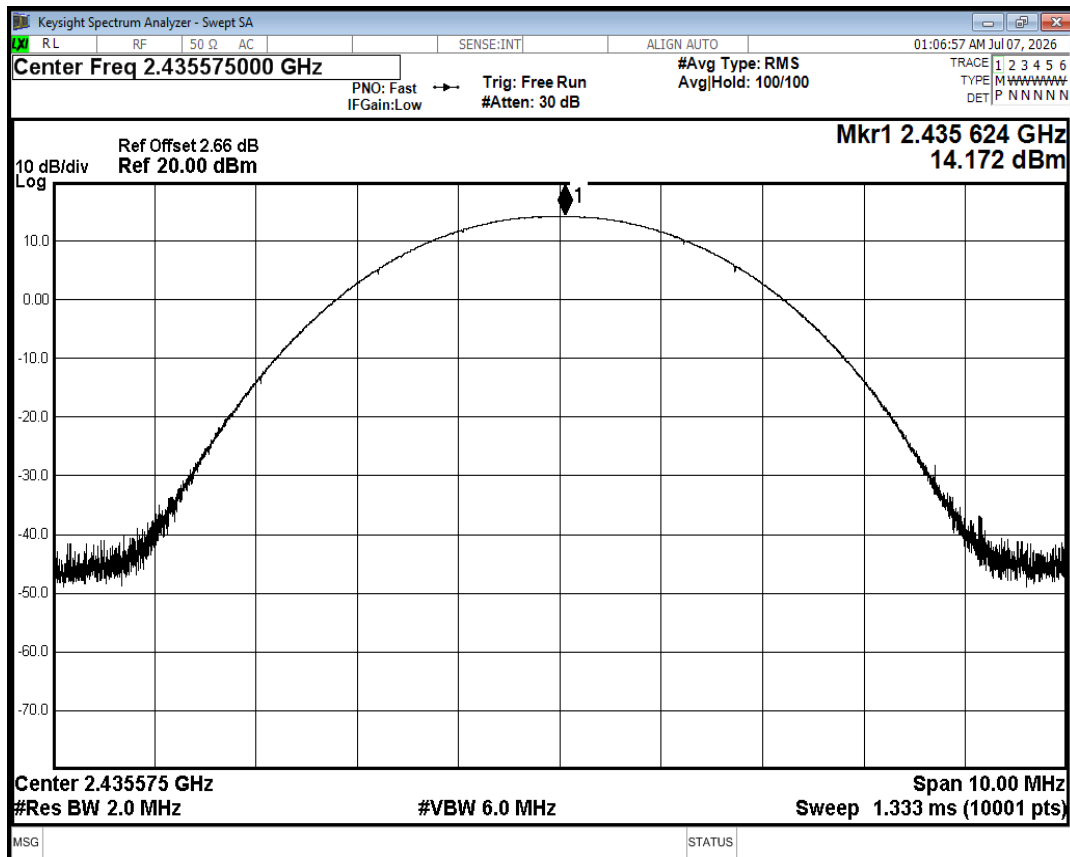
-20dB Bandwidth NVNT 2.4G 2476.575MHz Ant1

A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit Conducted(dBm)	Verdict
NVNT	2.4G	2401.575	Ant1	14.07	30	Pass
NVNT	2.4G	2435.575	Ant1	14.17	30	Pass
NVNT	2.4G	2476.575	Ant1	15.01	30	Pass



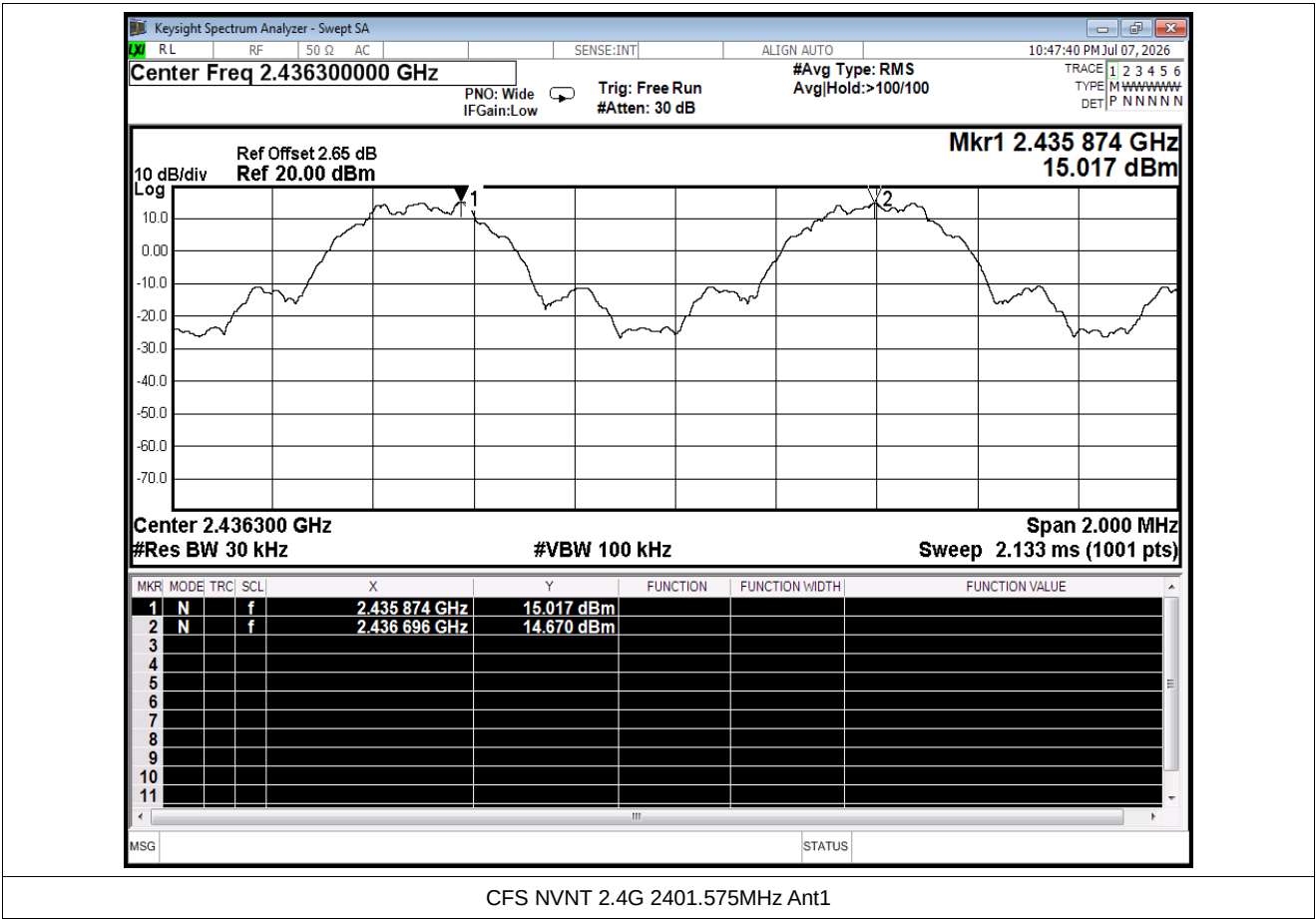
Peak Power NVNT 2.4G 2401.575MHz Ant1



Peak Power NVNT 2.4G 2435.575MHz Ant1

A.3 Carrier Frequencies Separation

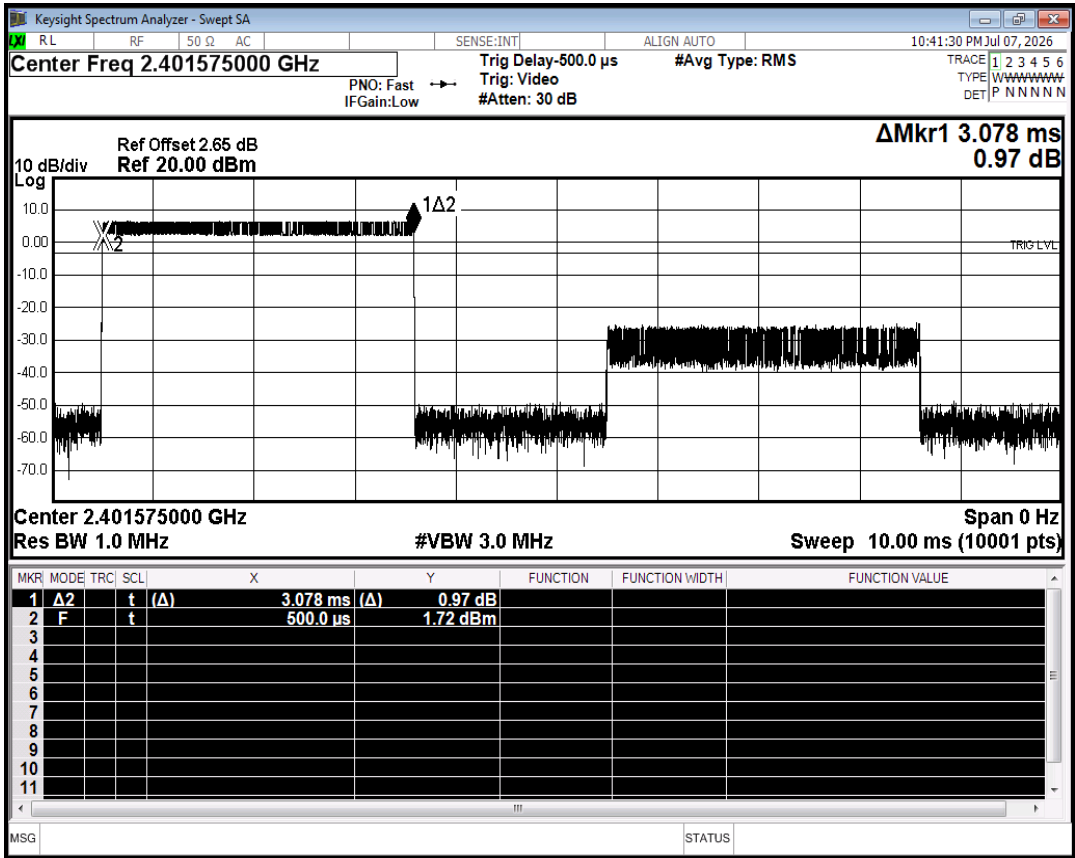
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	2.4G	Ant1	2435.874	2436.696	0.822	0.276	Pass



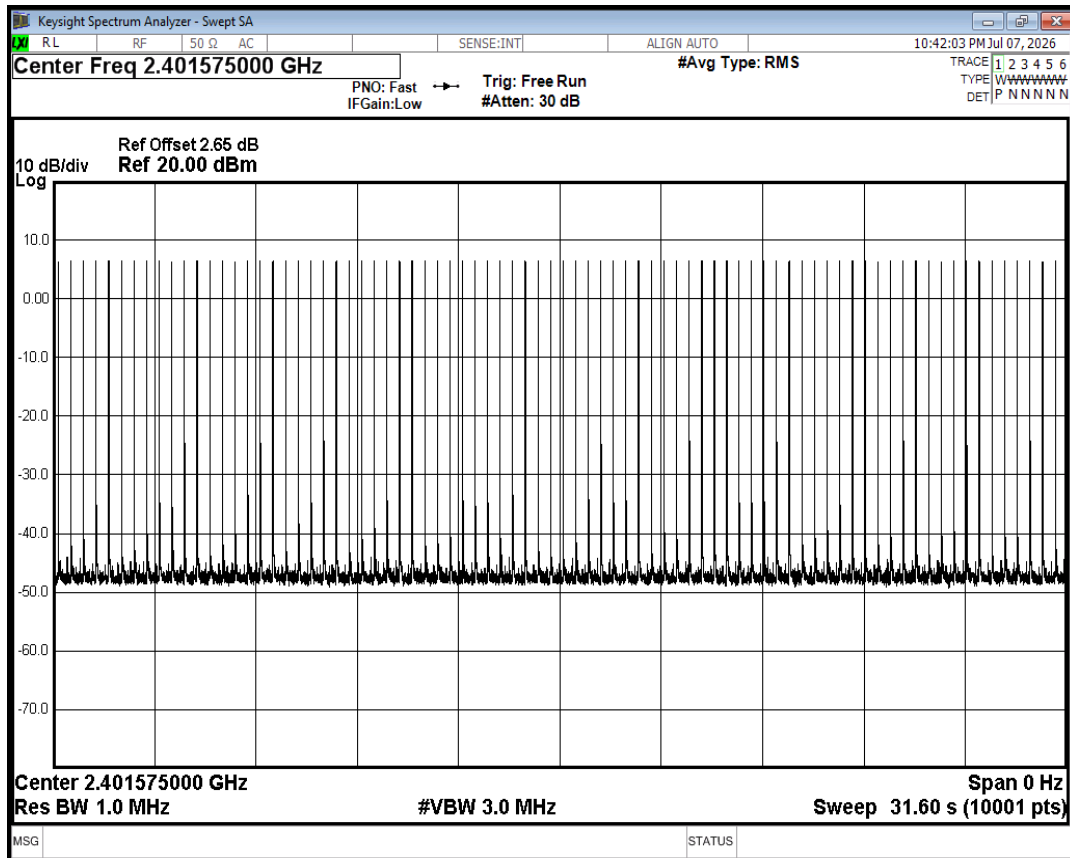
CFS NVNT 2.4G 2401.575MHz Ant1

A.4 Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	2.4G	2401.575	Ant1	3.078	246.24	80	31600	400	Pass



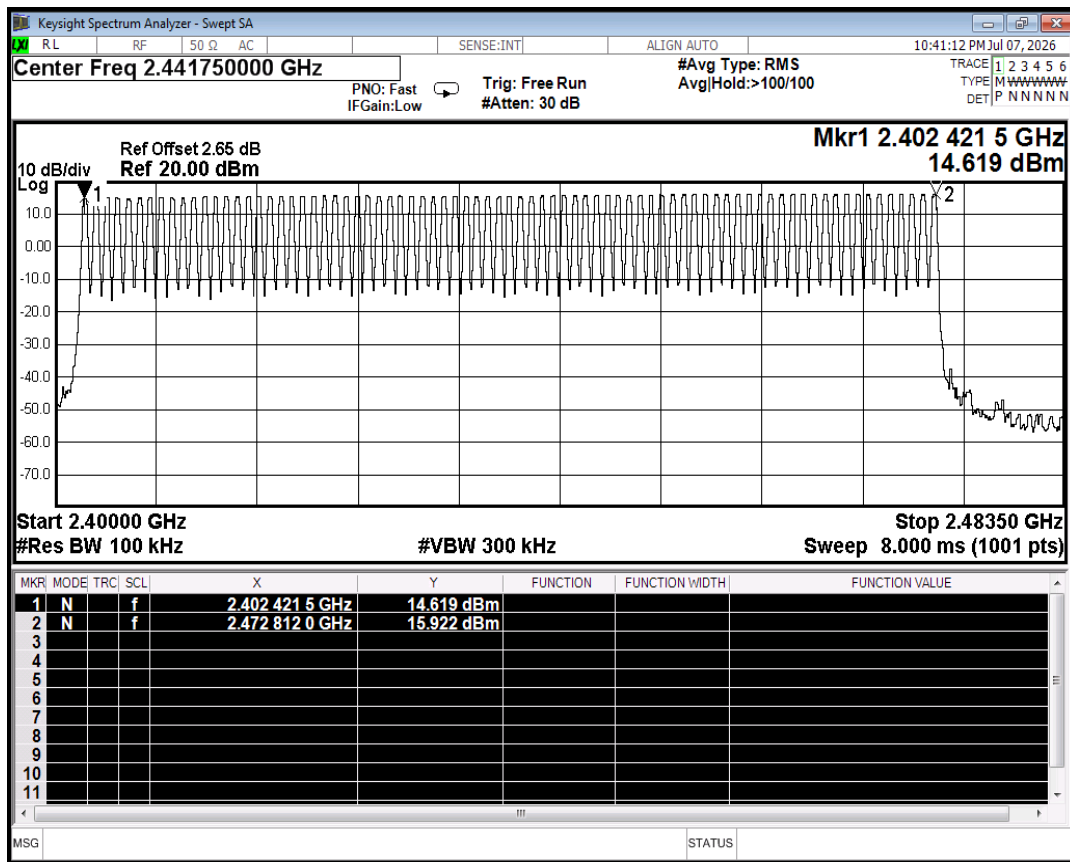
Dwell NVNT 2.4G 2401.575MHz Ant1 One Burst



Dwell NVNT 2.4G 2401.575MHz Ant1 Accumulated

A.5 Number of Hopping Channel

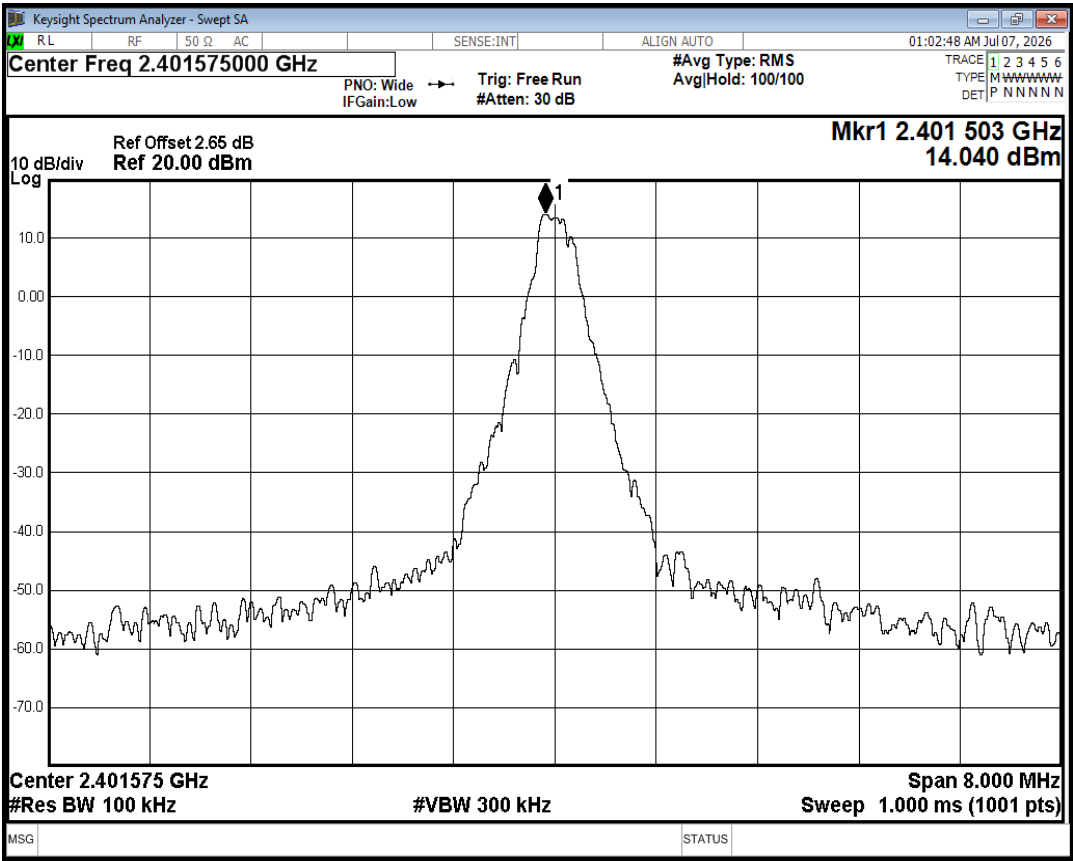
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	2.4G	Ant1	79	15	Pass



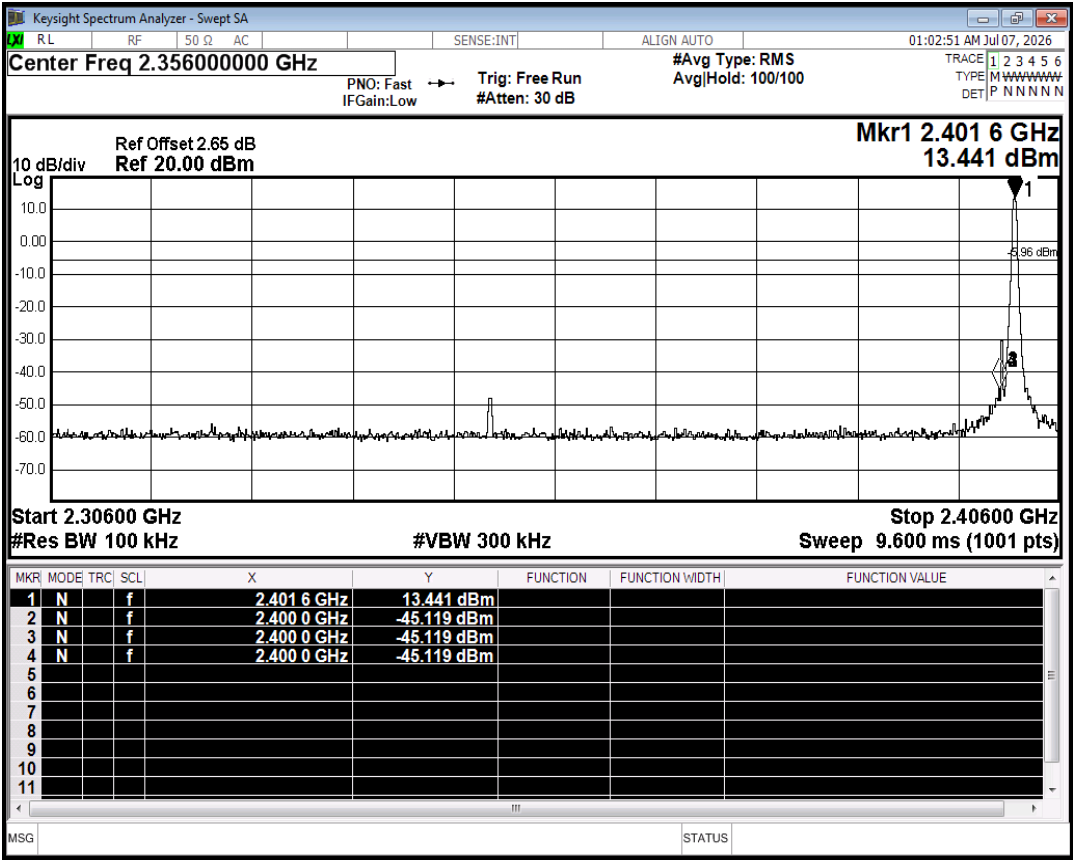
Hopping No. NVNT 2.4G 2401.575MHz Ant1

A.6 Band Edge

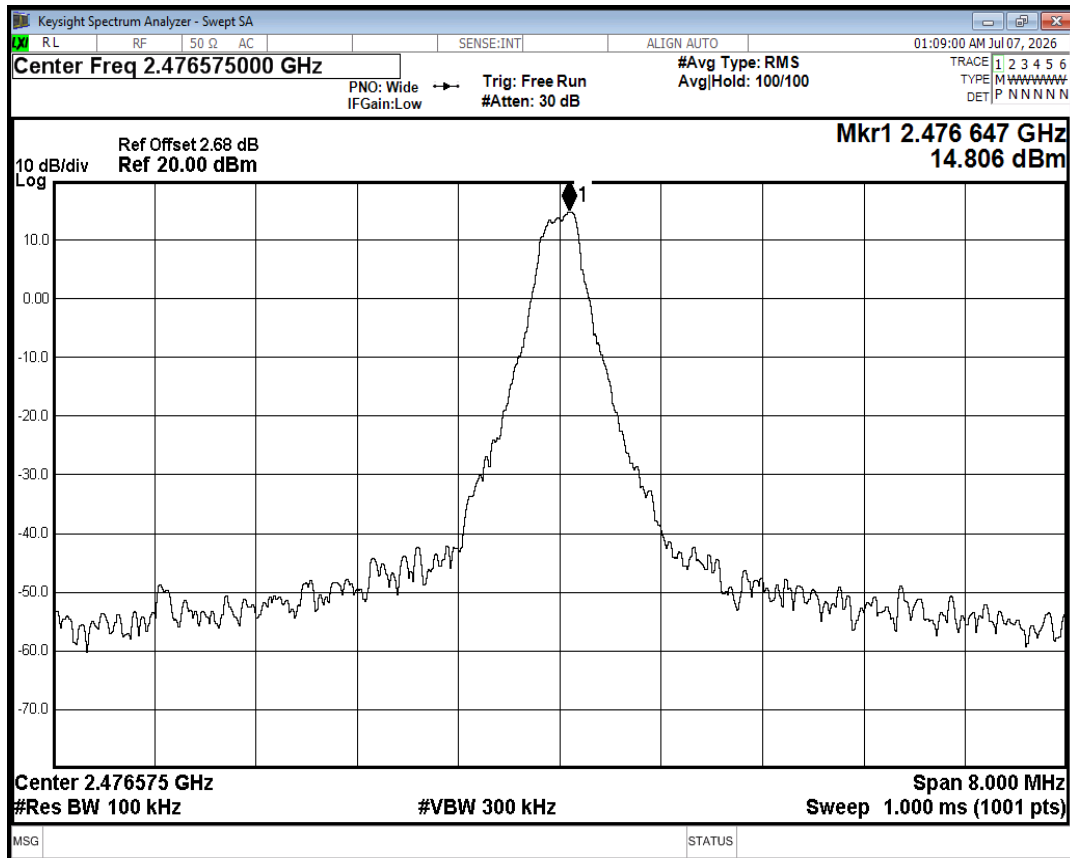
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2.4G	2401.575	Ant1	No-Hopping	-59.15	-20	Pass
NVNT	2.4G	2476.575	Ant1	No-Hopping	-69.21	-20	Pass



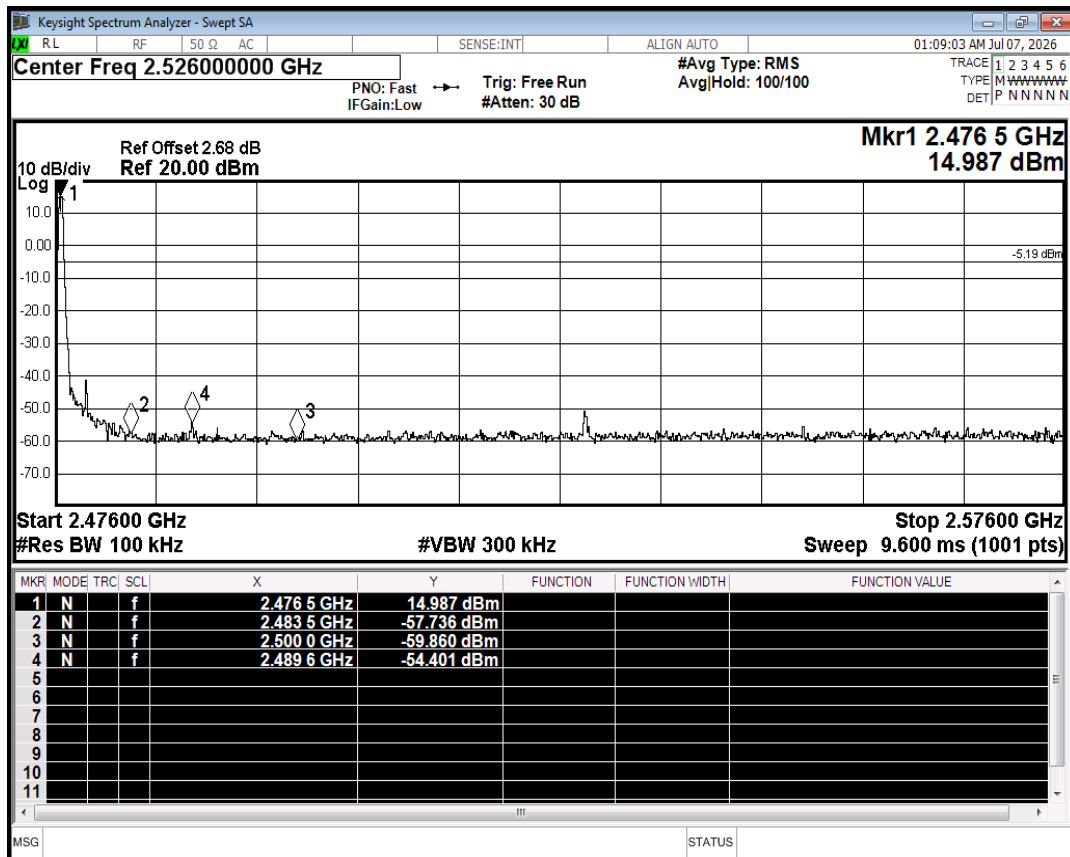
Band Edge NVNT 2.4G 2401.575MHz Ant1 No-Hopping Ref



Band Edge NVNT 2.4G 2401.575MHz Ant1 No-Hopping Emission



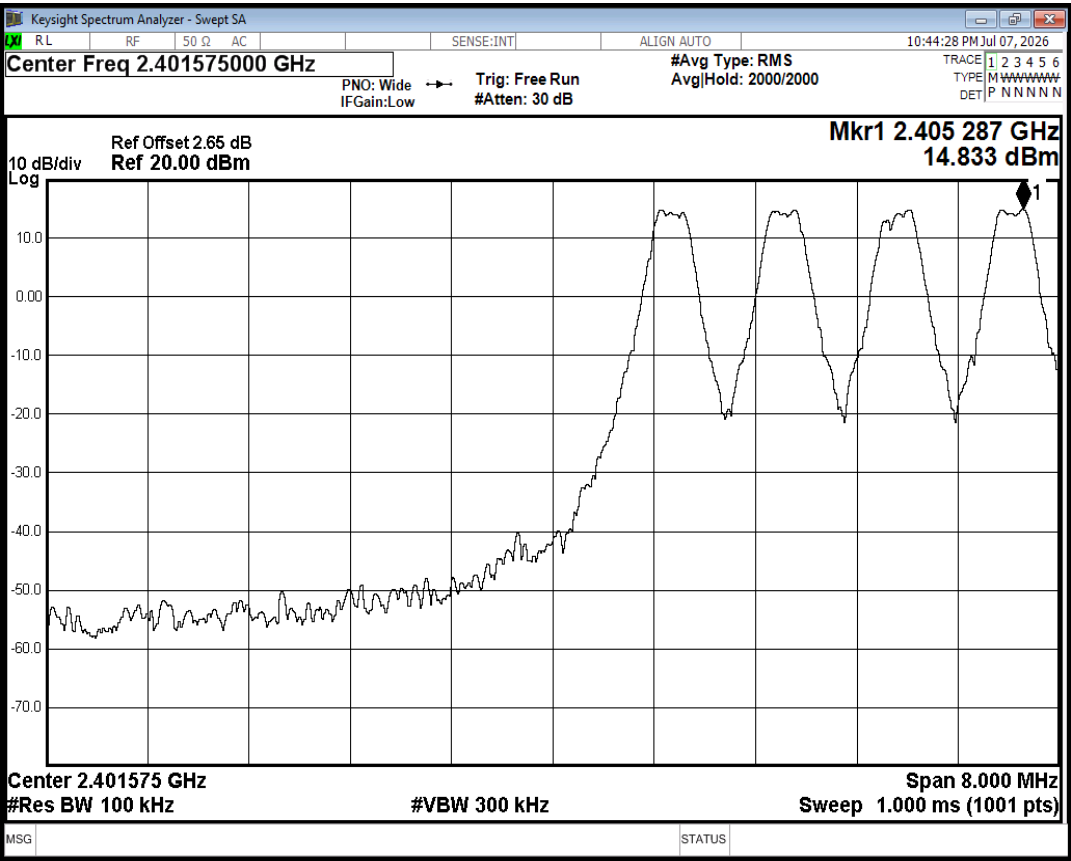
Band Edge NVNT 2.4G 2476.575MHz Ant1 No-Hopping Ref



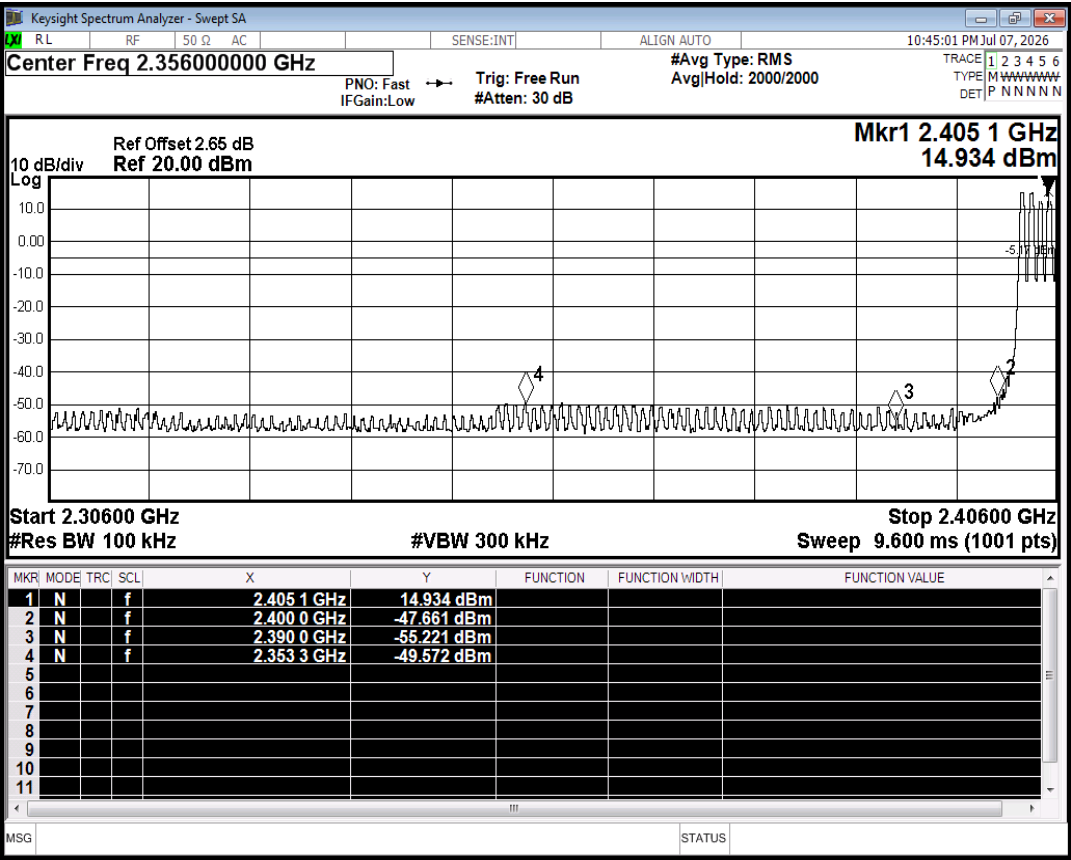
Band Edge NVNT 2.4G 2476.575MHz Ant1 No-Hopping Emission

(Hopping)

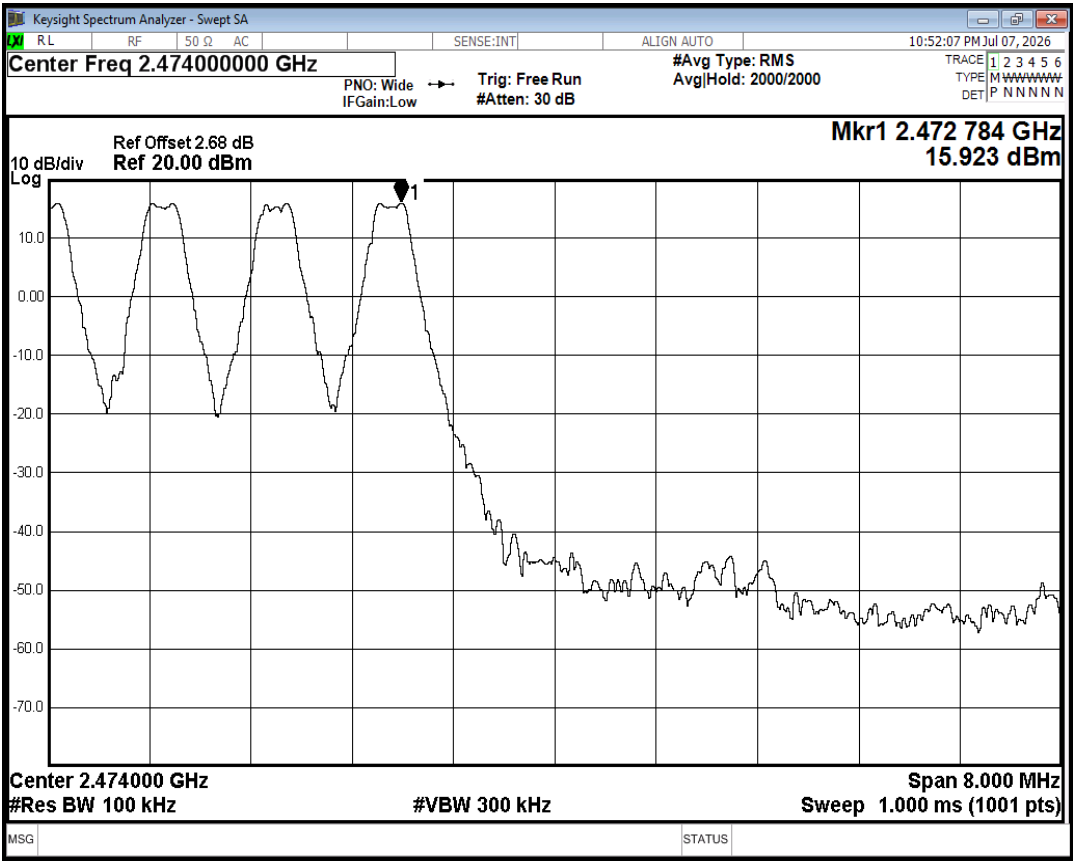
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2.4G	2402.5	Ant1	Hopping	-64.4	-20	Pass
NVNT	2.4G	2472.7	Ant1	Hopping	-66.4	-20	Pass



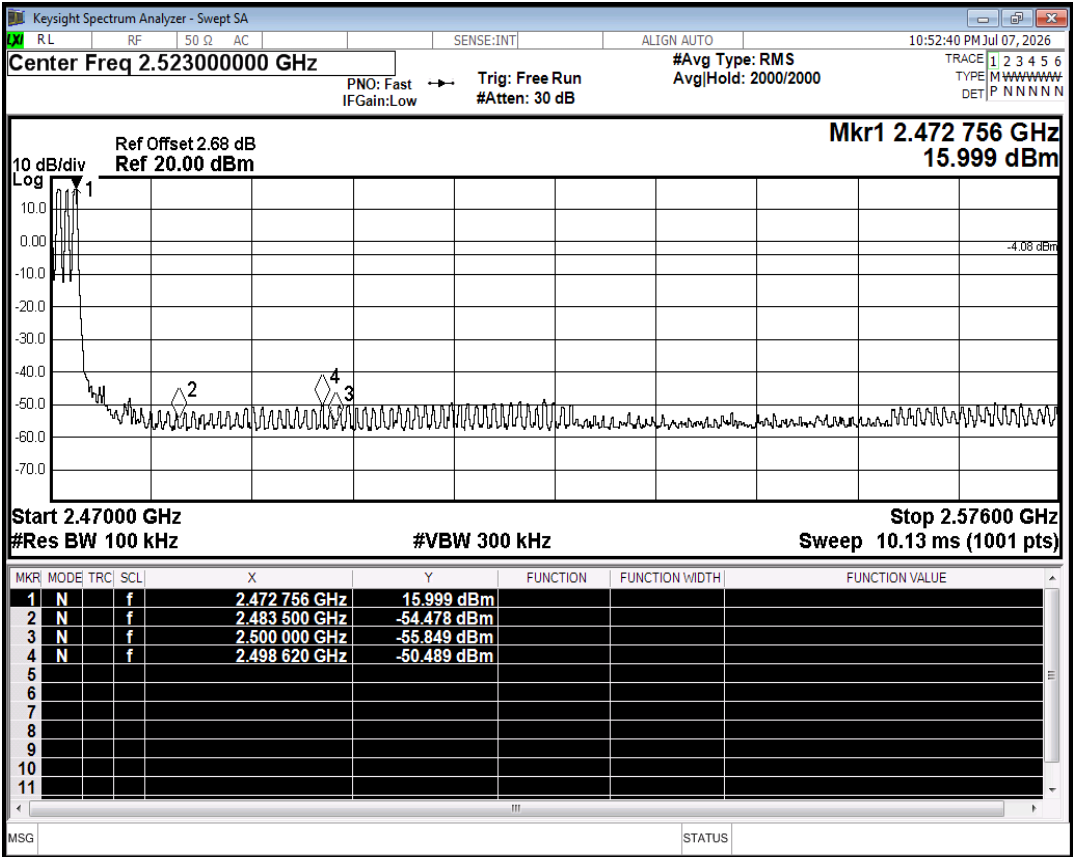
Band Edge(Hopping) NVNT 2.4G 2402.5MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 2.4G 2402.5MHz Ant1 Hopping Emission



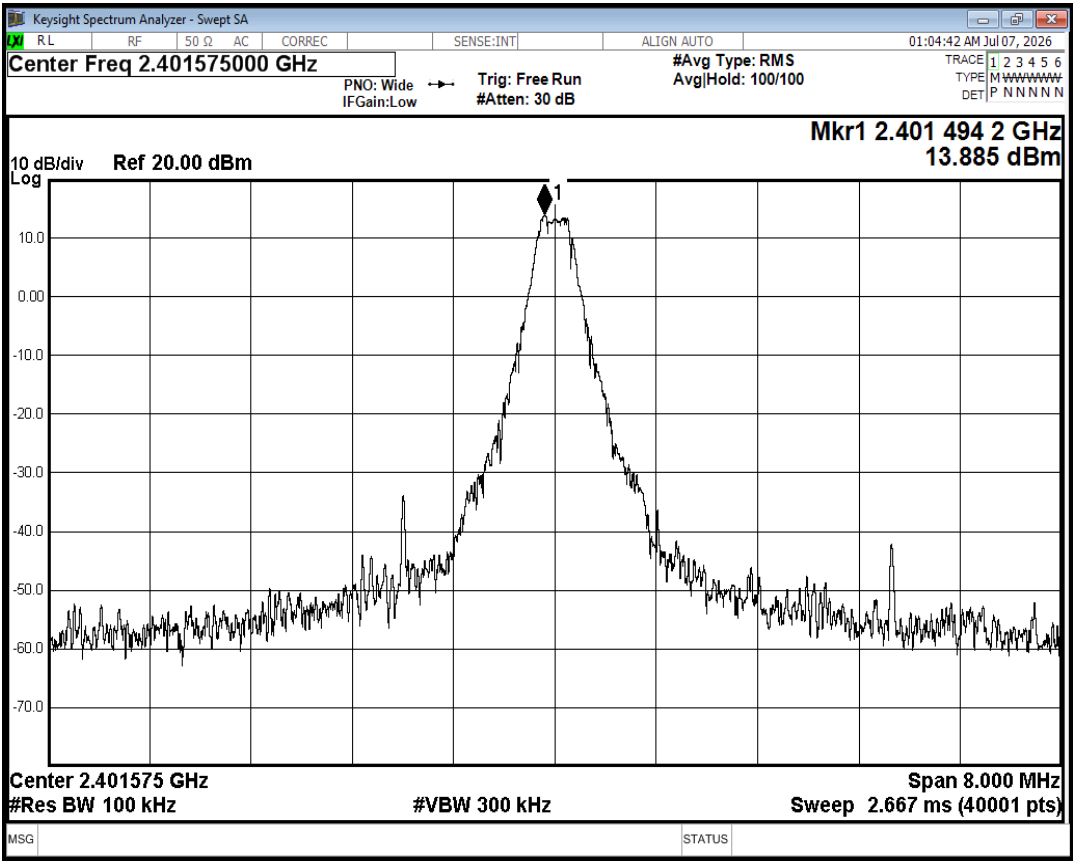
Band Edge(Hopping) NVNT 2.4G 2472.7MHz Ant1 Hopping Ref



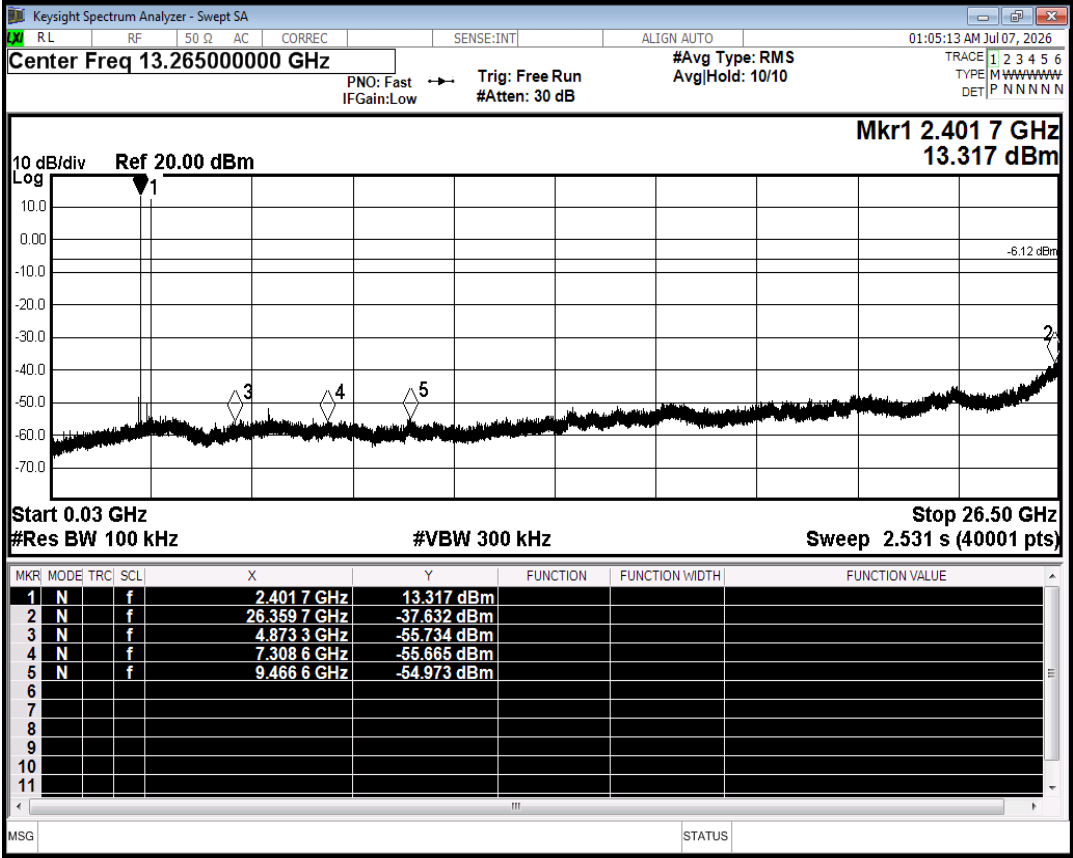
Band Edge(Hopping) NVNT 2.4G 2472.7MHz Ant1 Hopping Emission

A.7 Conducted RF Spurious Emission

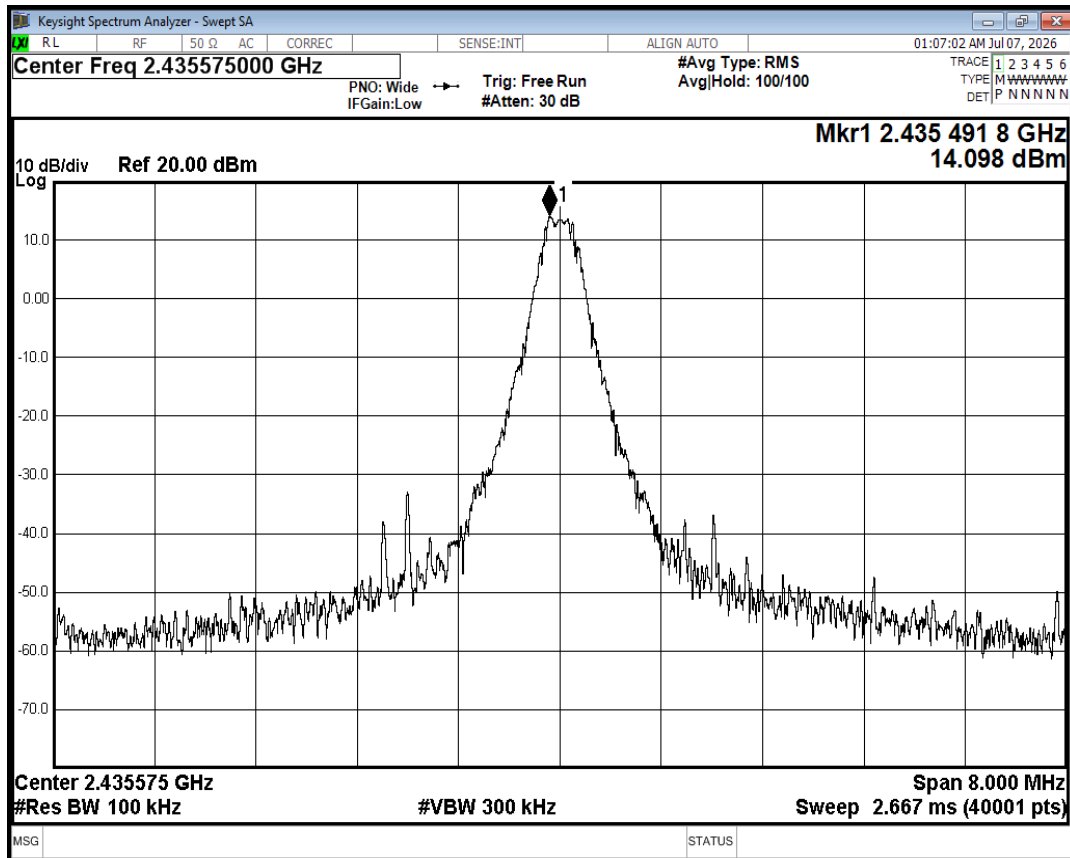
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2.4G	2401.575	Ant1	-51.52	-20	Pass
NVNT	2.4G	2435.575	Ant1	-51.54	-20	Pass
NVNT	2.4G	2476.575	Ant1	-52.61	-20	Pass



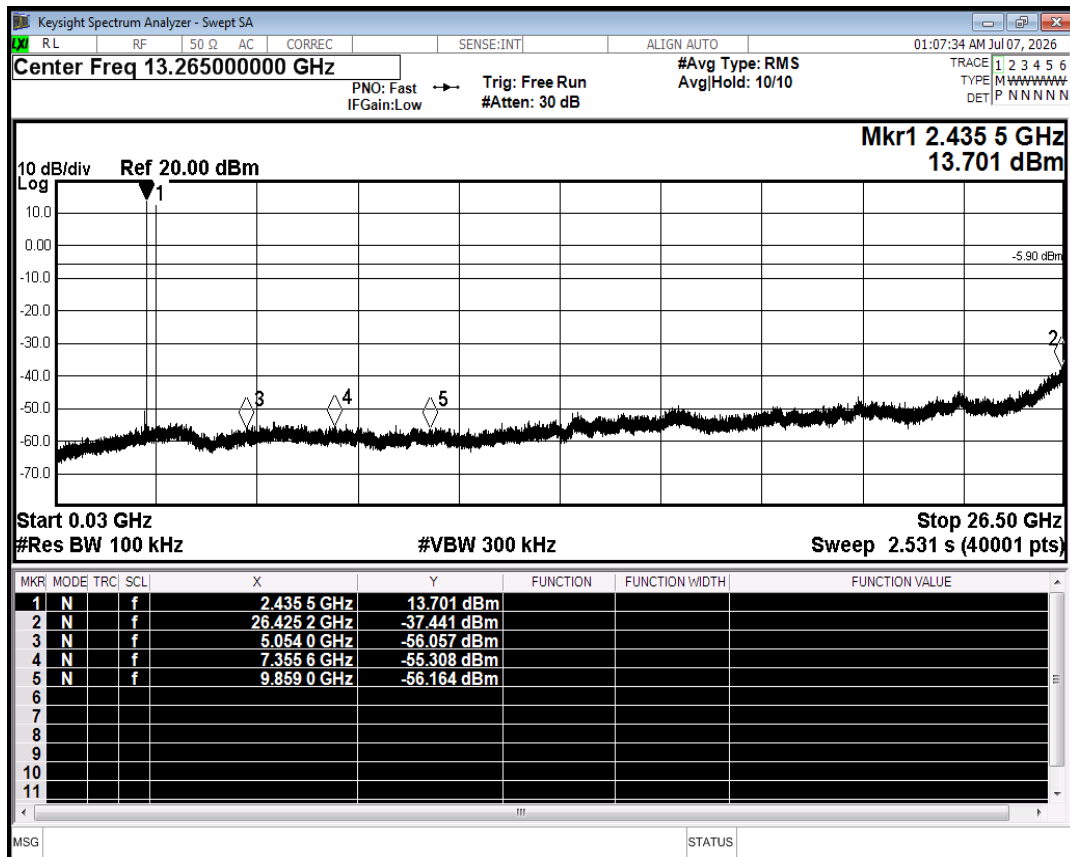
Tx. Spurious NVNT 2.4G 2401.575MHz Ant1 Ref



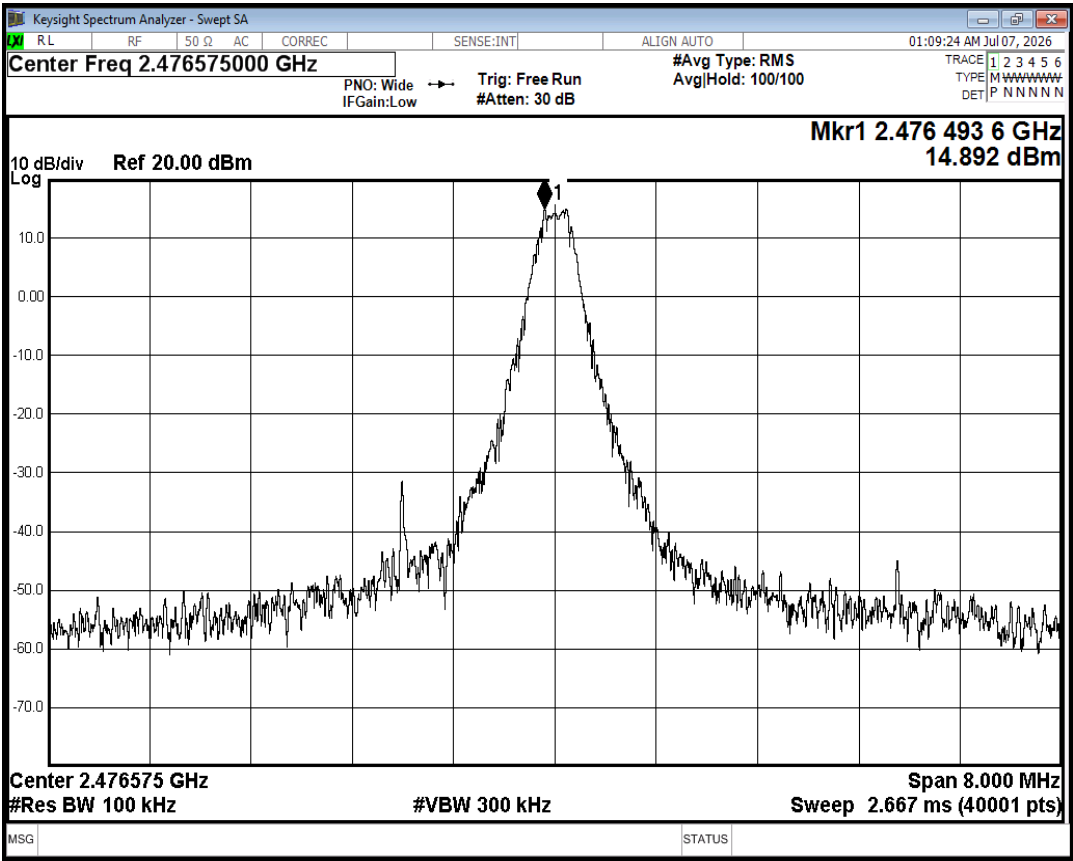
Tx. Spurious NVNT 2.4G 2401.575MHz Ant1 Emission



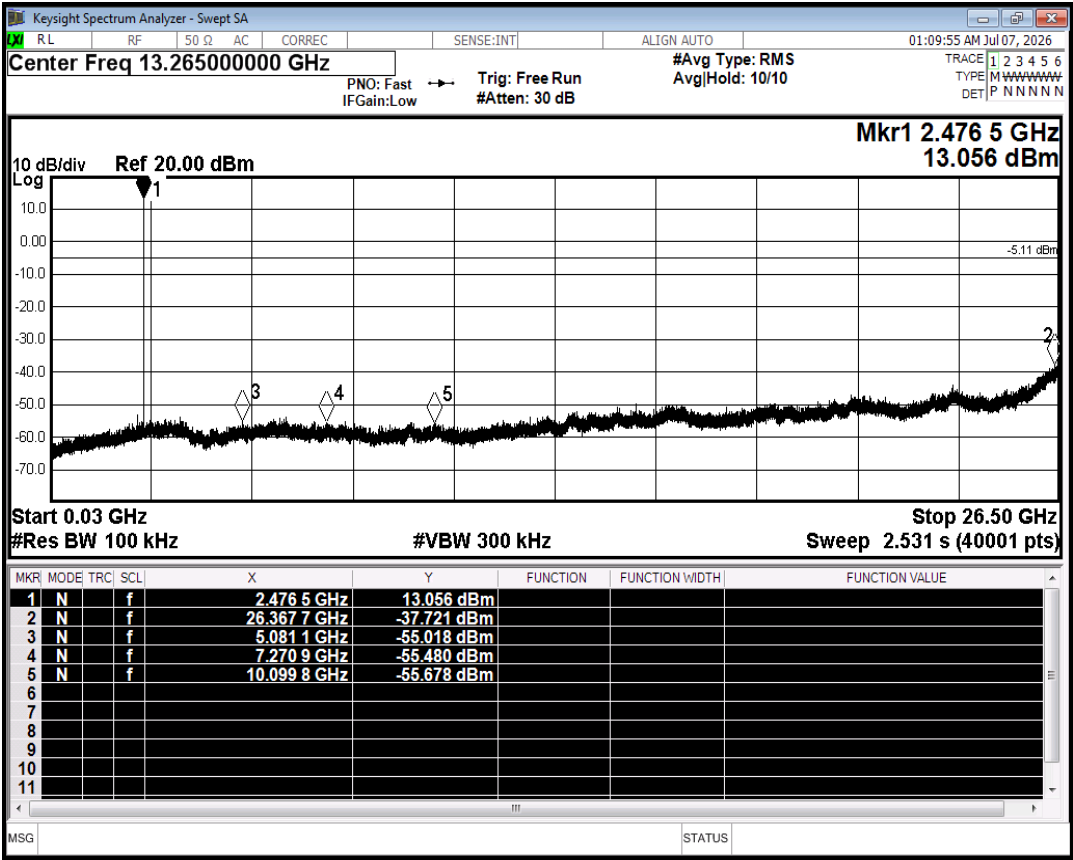
Tx. Spurious NVNT 2.4G 2435.575MHz Ant1 Ref



Tx. Spurious NVNT 2.4G 2435.575MHz Ant1 Emission



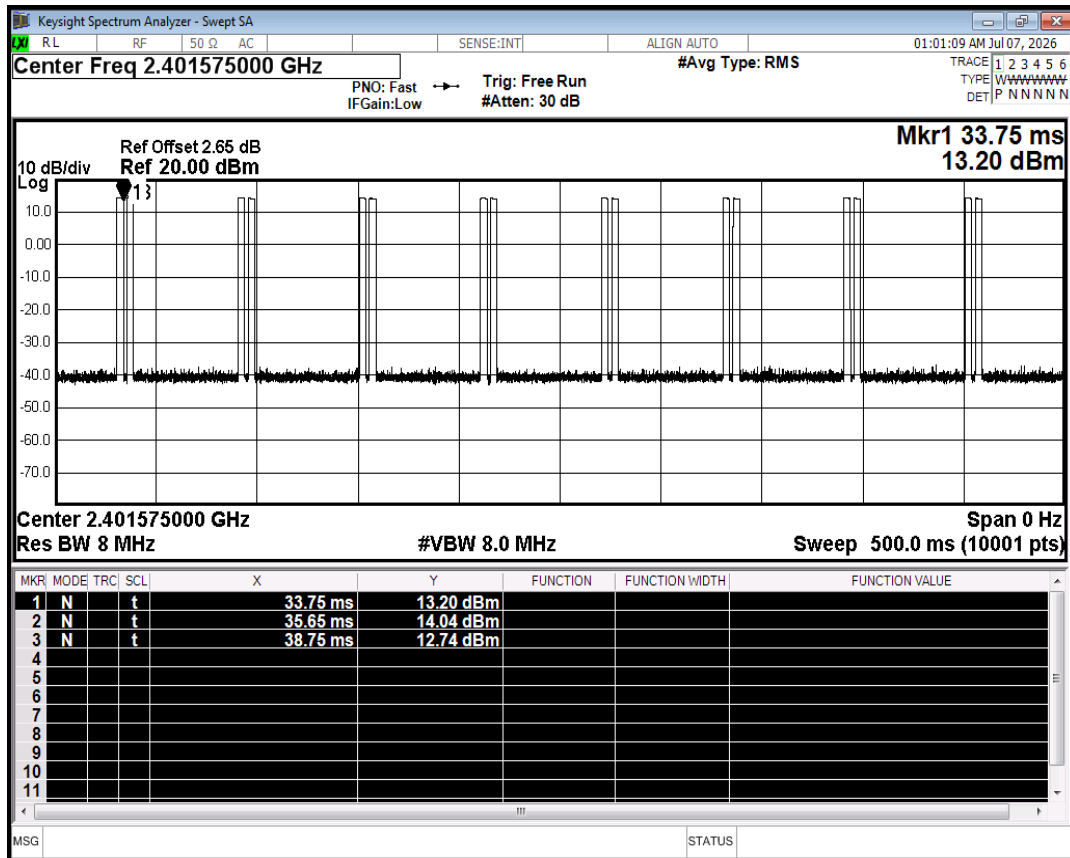
Tx. Spurious NVNT 2.4G 2476.575MHz Ant1 Ref



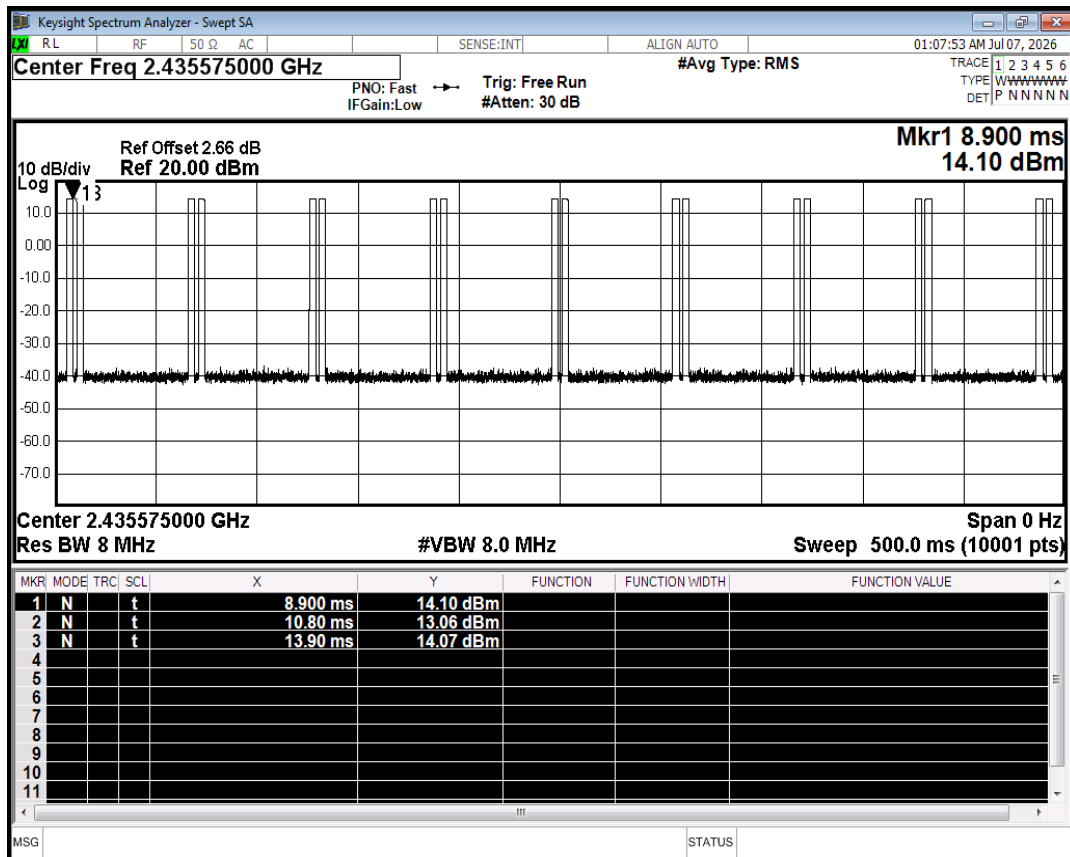
Tx. Spurious NVNT 2.4G 2476.575MHz Ant1 Emission

A.8 Duty Cycle

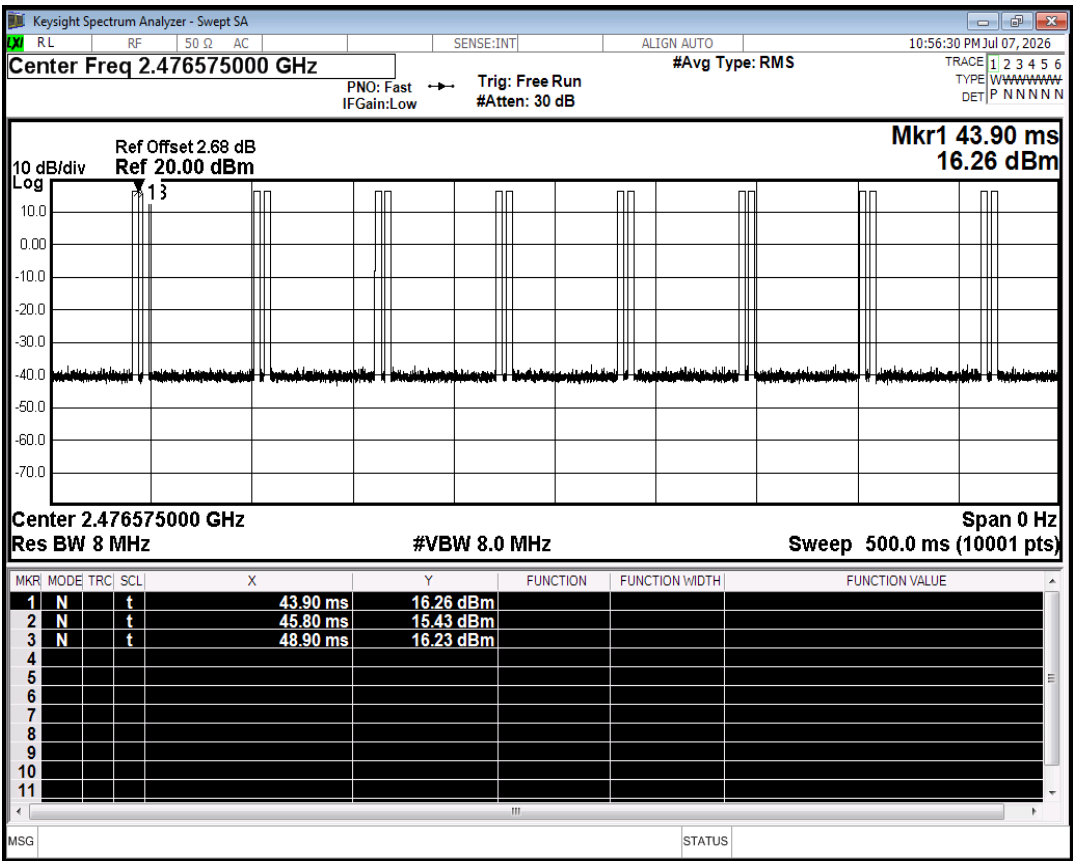
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	2.4G	2401.575	Ant1	62	2.08	0.32
NVNT	2.4G	2435.575	Ant1	62	2.08	0.32
NVNT	2.4G	2476.575	Ant1	62	2.08	0.32



Duty Cycle NVNT 2.4G 2401.575MHz Ant1



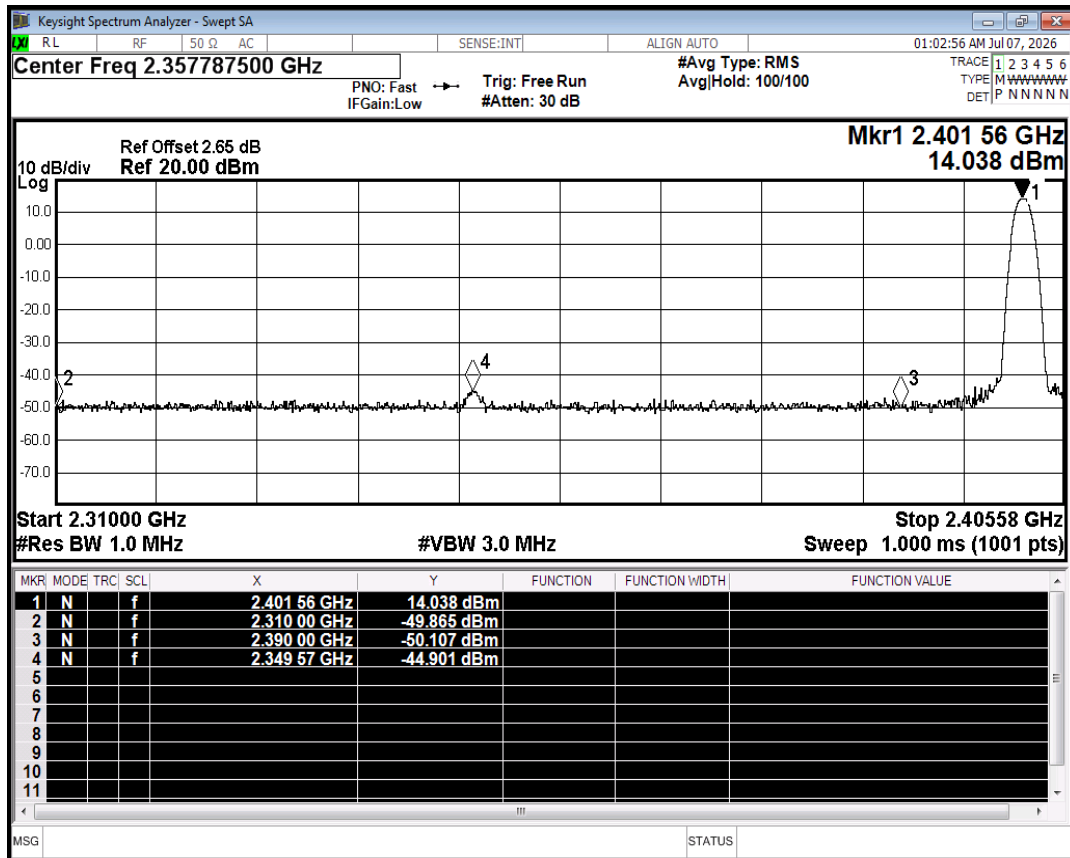
Duty Cycle NVNT 2.4G 2435.575MHz Ant1



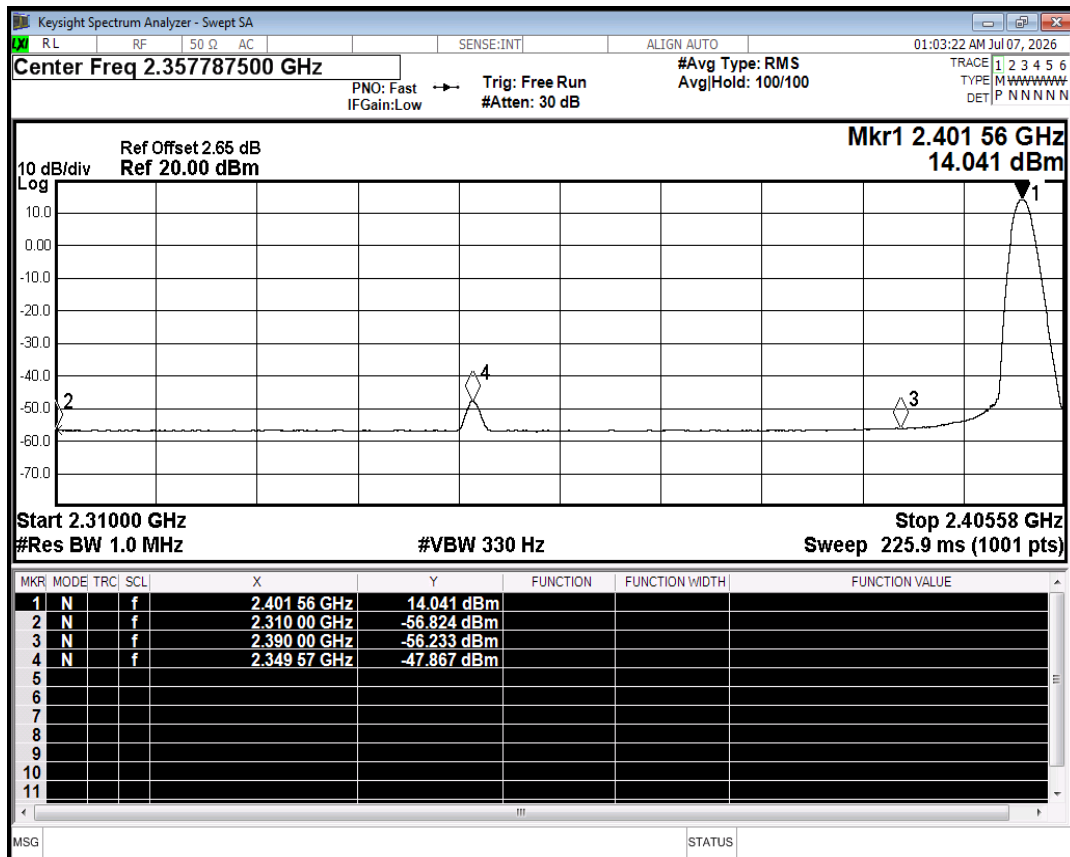
Duty Cycle NVNT 2.4G 2476.575MHz Ant1

A.9 Restrict Band

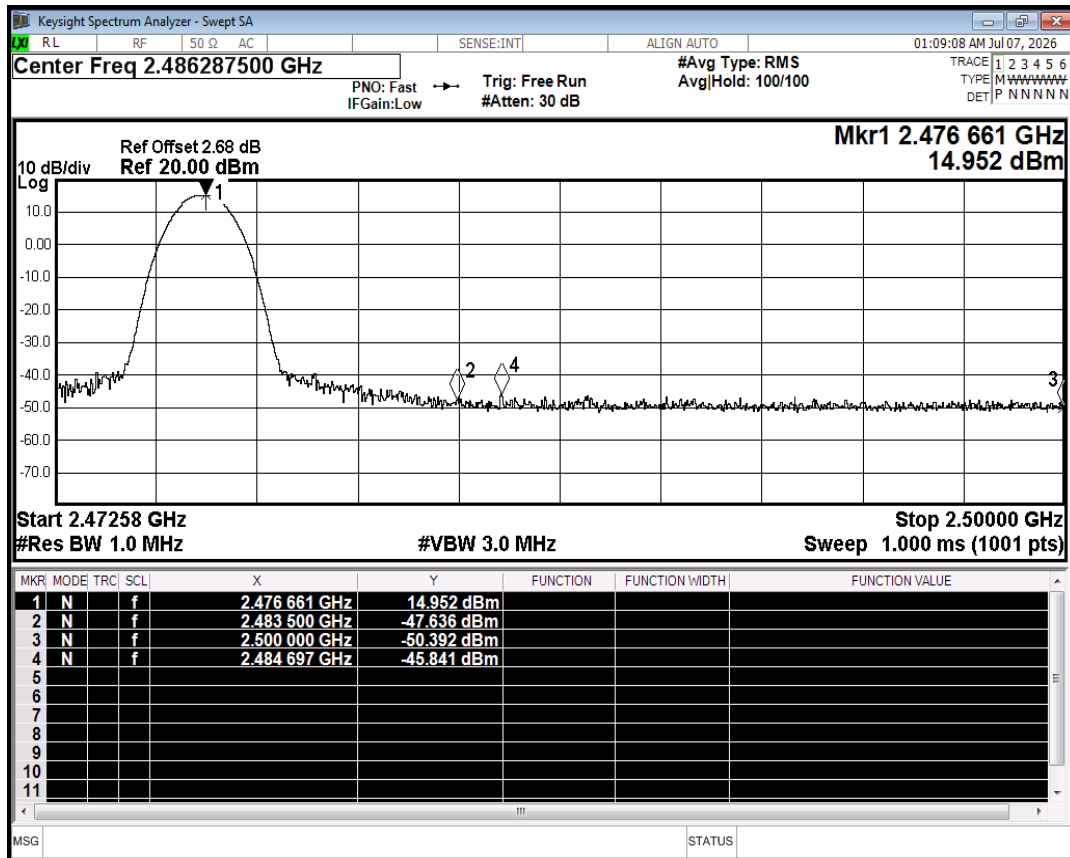
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	2.4G	2401.575	Ant1	No-Hopping	2310	-49.86	5.58	50.98	Peak	74	Pass
NVNT	2.4G	2401.575	Ant1	No-Hopping	2310	-56.82	5.58	44.02	Average	54	Pass
NVNT	2.4G	2401.575	Ant1	No-Hopping	2349.56805	-44.9	5.58	55.94	Peak	74	Pass
NVNT	2.4G	2401.575	Ant1	No-Hopping	2349.56805	-47.86	5.58	52.98	Average	54	Pass
NVNT	2.4G	2401.575	Ant1	No-Hopping	2390	-50.31	5.58	50.53	Peak	74	Pass
NVNT	2.4G	2401.575	Ant1	No-Hopping	2390	-56.23	5.58	44.61	Average	54	Pass
NVNT	2.4G	2476.575	Ant1	No-Hopping	2483.5	-46.85	5.58	53.99	Peak	74	Pass
NVNT	2.4G	2476.575	Ant1	No-Hopping	2483.5	-53.74	5.58	47.10	Average	54	Pass
NVNT	2.4G	2476.575	Ant1	No-Hopping	2484.69685	-45.84	5.58	55.00	Peak	74	Pass
NVNT	2.4G	2476.575	Ant1	No-Hopping	2483.517575	-53.74	5.58	47.10	Average	54	Pass
NVNT	2.4G	2476.575	Ant1	No-Hopping	2500	-50.39	5.58	50.45	Peak	74	Pass
NVNT	2.4G	2476.575	Ant1	No-Hopping	2500	-56.39	5.58	44.45	Average	54	Pass



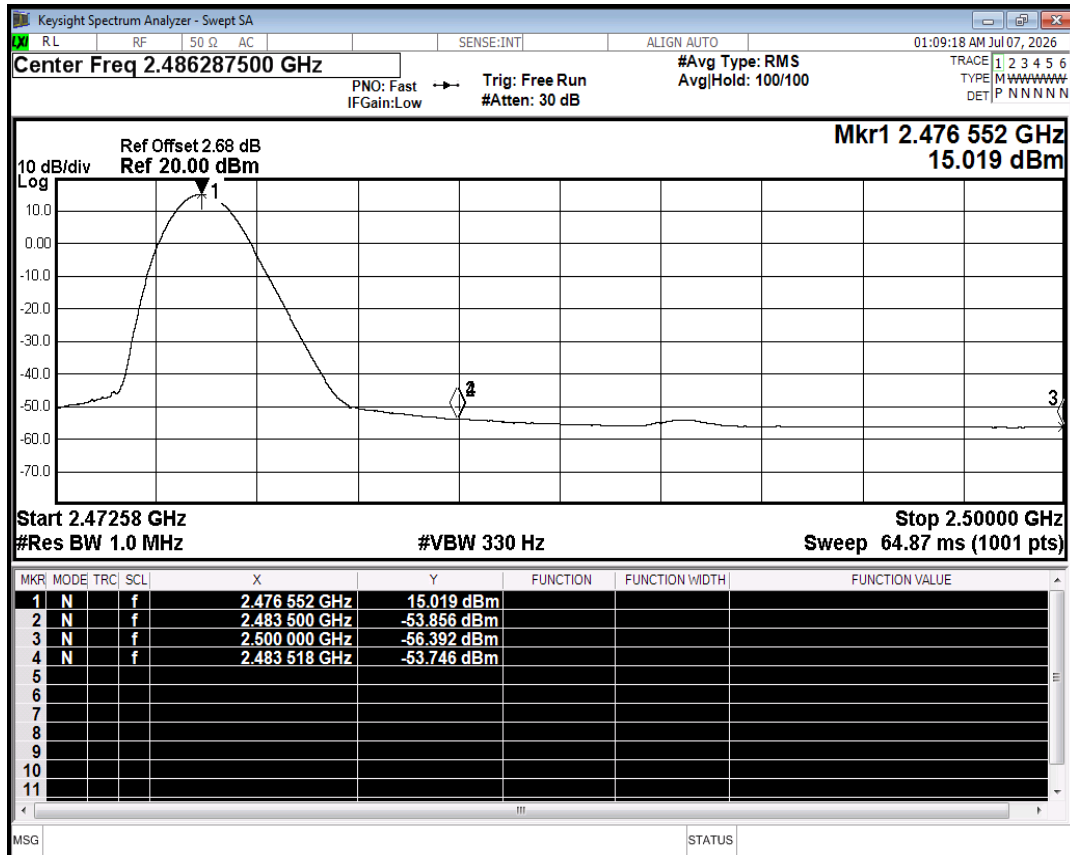
Restrict Band NVNT 2.4G 2401.575MHz Ant1 No-Hopping Peak



Restrict Band NVNT 2.4G 2401.575MHz Ant1 No-Hopping Average



Restrict Band NVNT 2.4G 2476.575MHz Ant1 No-Hopping Peak



Restrict Band NVNT 2.4G 2476.575MHz Ant1 No-Hopping Average