



Appendix A

RF Test Data for 2.4G (Conducted Measurement)

Product Name: TV Headphone

Test Model: ZP-THP60-Gamma4A

Environmental Conditions

Temperature:	23.4° C
Relative Humidity:	51.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Mark Chen
Supervised by:	Libin



A.1 20dB Emission Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	20 dB Bandwidth (MHz)	Limit 20 dB Bandwidth (MHz)	Verdict
NVNT	2.4G	2403	Ant1	2.619	---	Pass
NVNT	2.4G	2439	Ant1	3.225	---	Pass
NVNT	2.4G	2478	Ant1	2.902	---	Pass

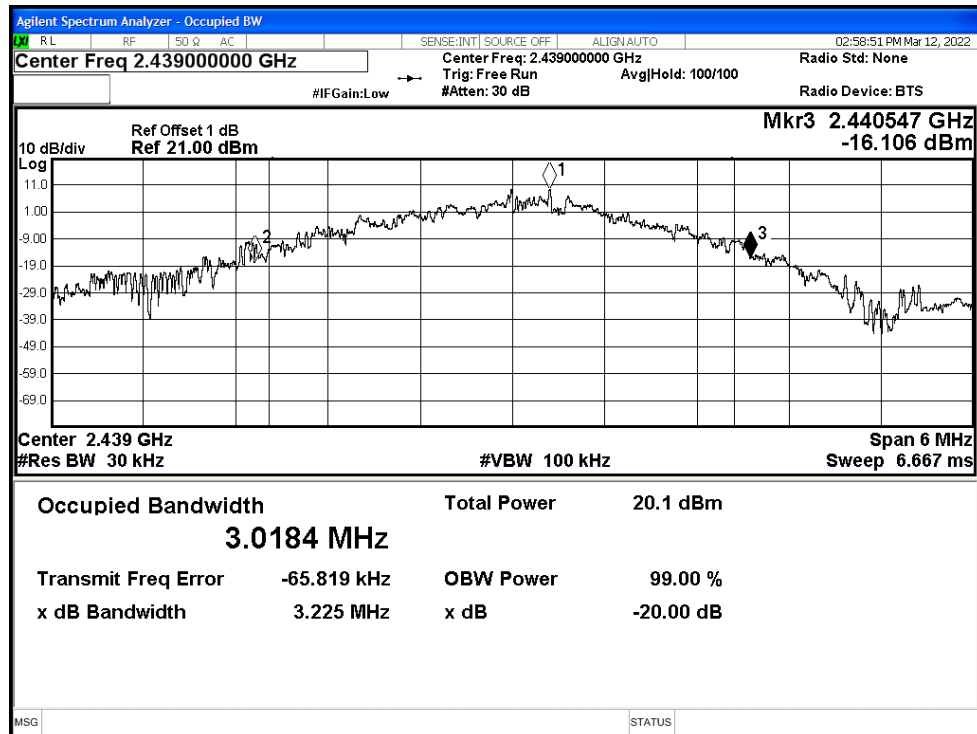


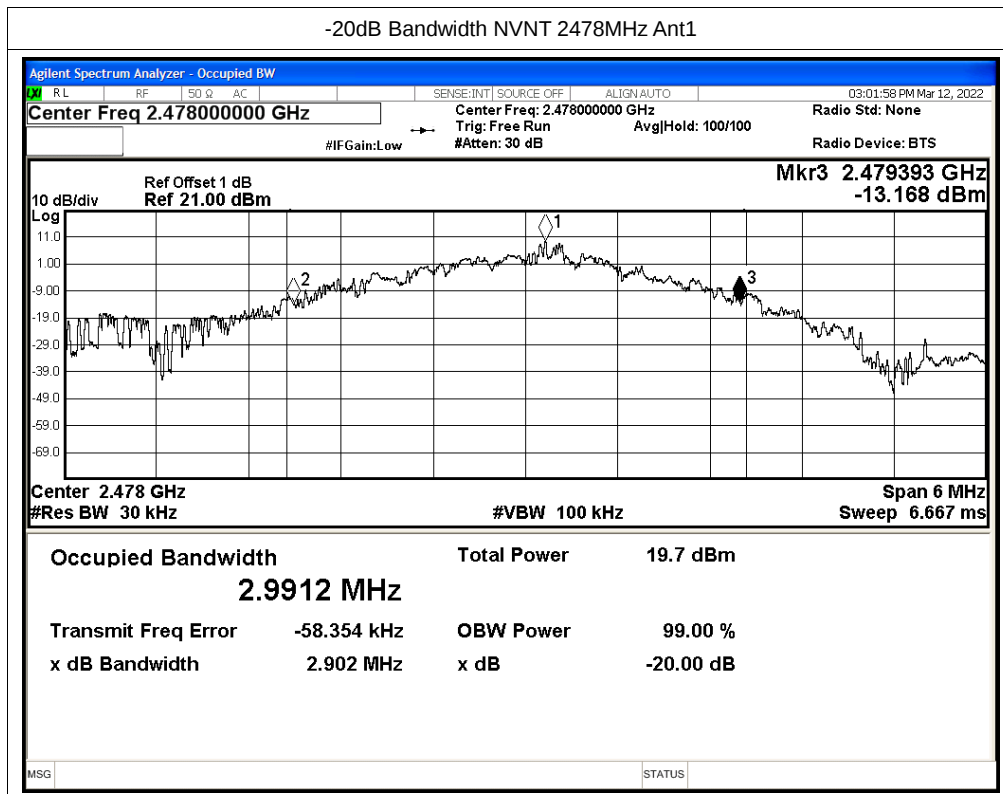
Test Graphs

-20dB Bandwidth NVNT 2403MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2439MHz Ant1







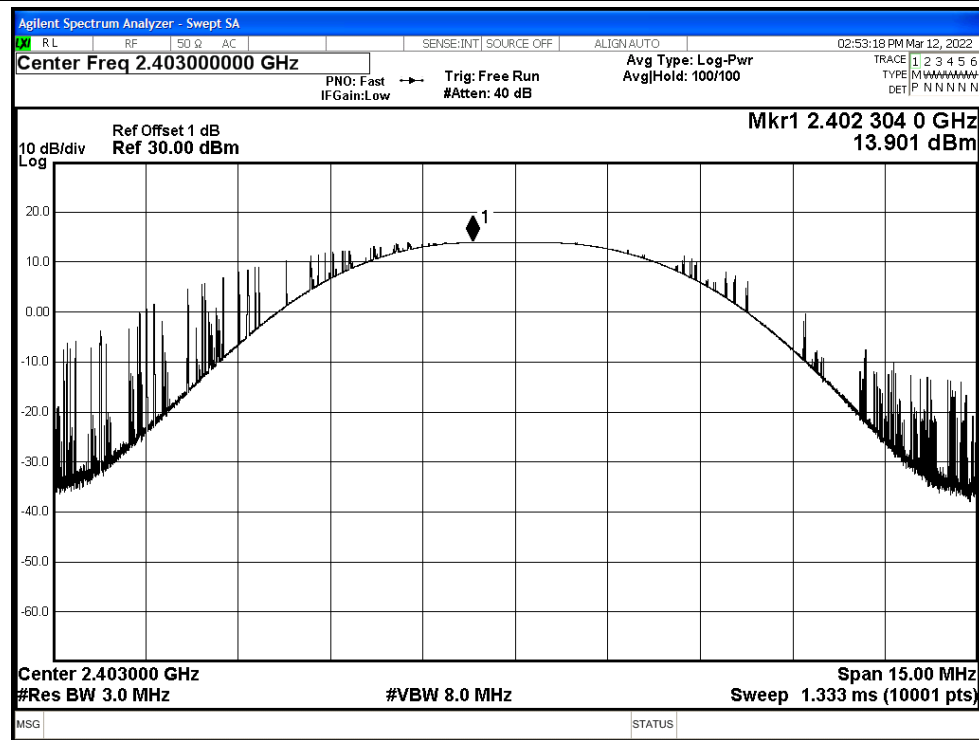
A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	2.4G	2403	Ant1	13.90	21	Pass
NVNT	2.4G	2439	Ant1	13.67	21	Pass
NVNT	2.4G	2478	Ant1	13.34	21	Pass

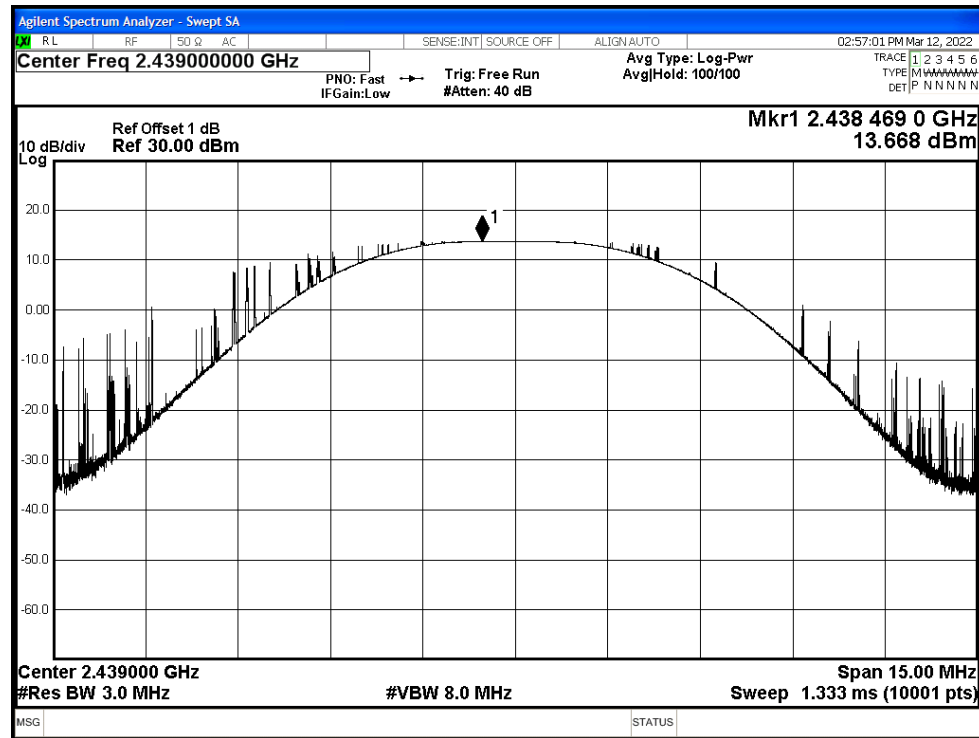


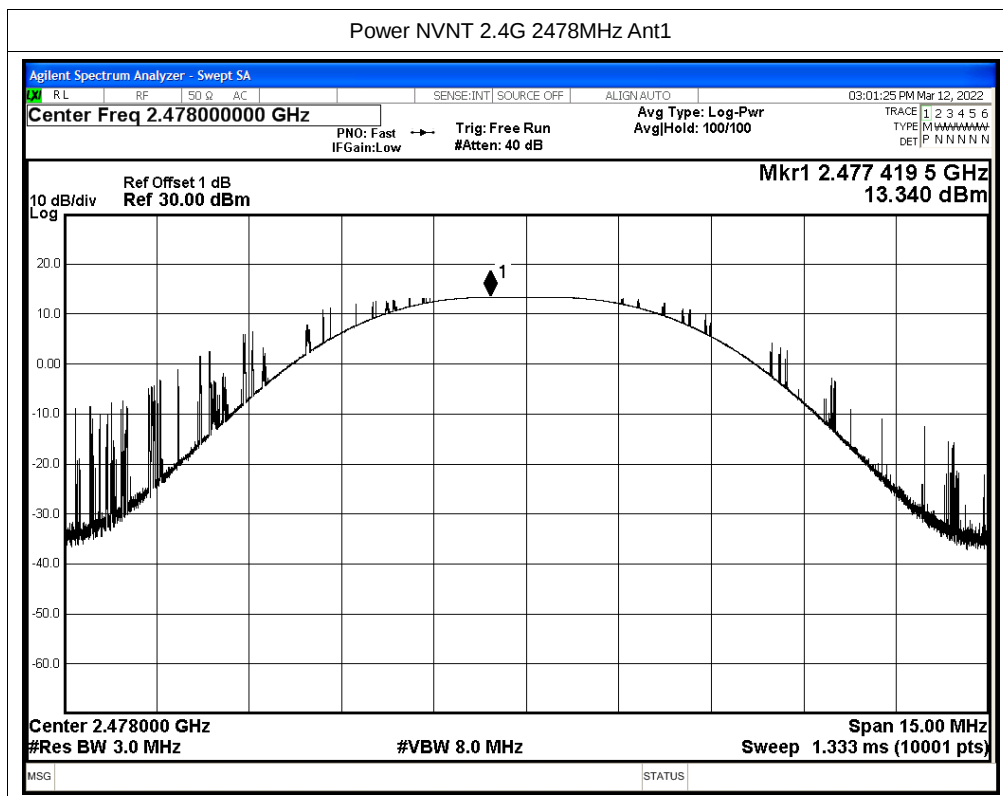
Test Graphs

Power NVNT 2.4G 2403MHz Ant1



Power NVNT 2.4G 2439MHz Ant1





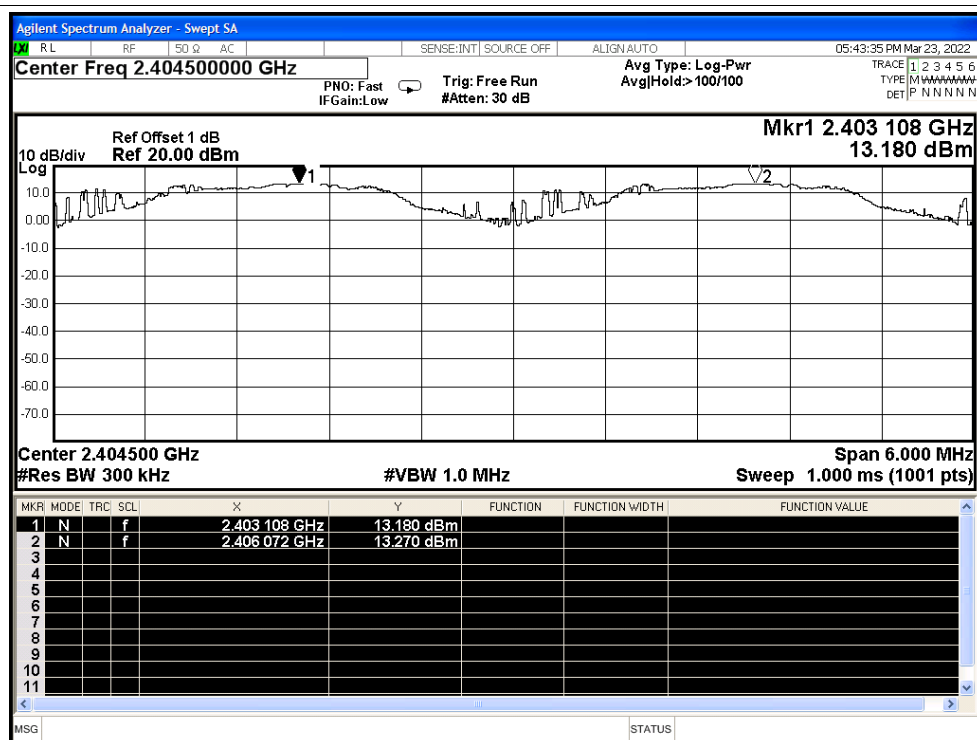


A.3 Carrier Frequencies Separation

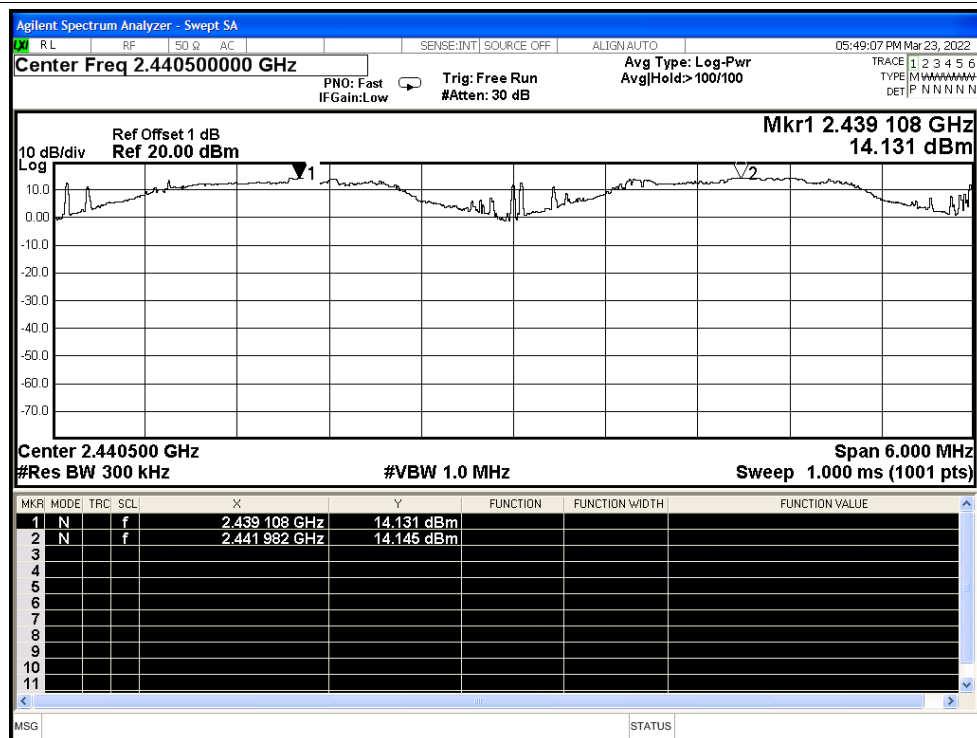
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	2.4G	Ant1	2403.108	2406.072	2.964	1.75	Pass
NVNT	2.4G	Ant1	2439.108	2441.982	2.874	2.15	Pass
NVNT	2.4G	Ant1	2474.988	2477.976	2.988	1.93	Pass

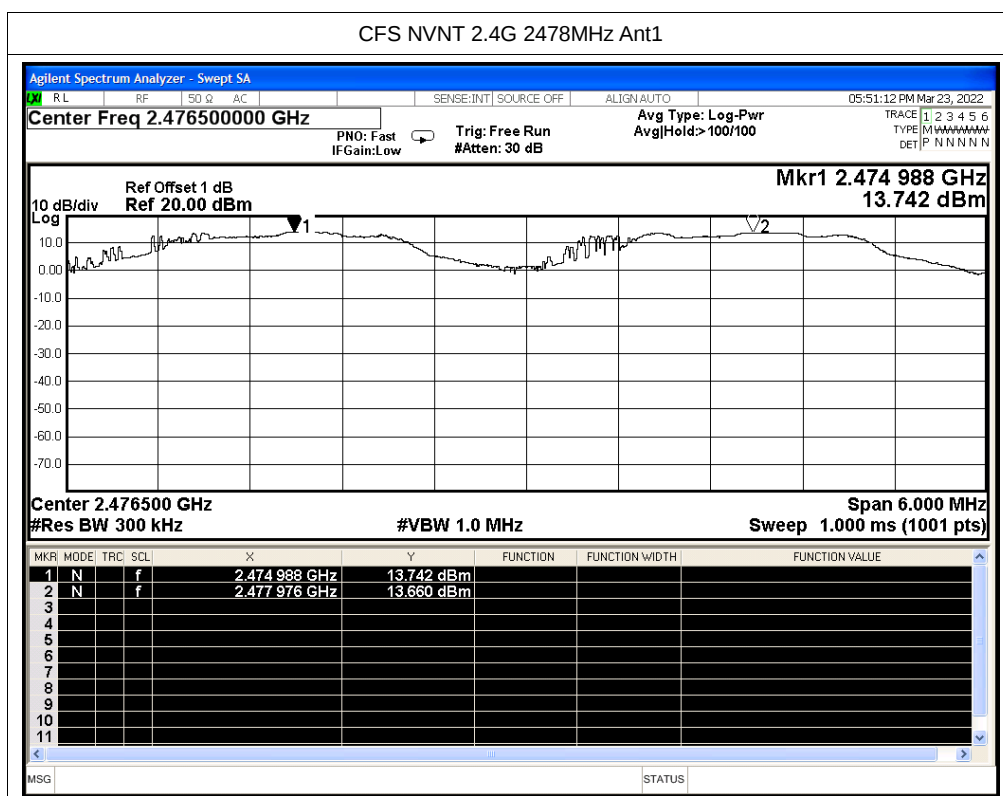


CFS NVNT 2.4G 2404.5MHz Ant1



CFS NVNT 2.4G 2439MHz Ant1







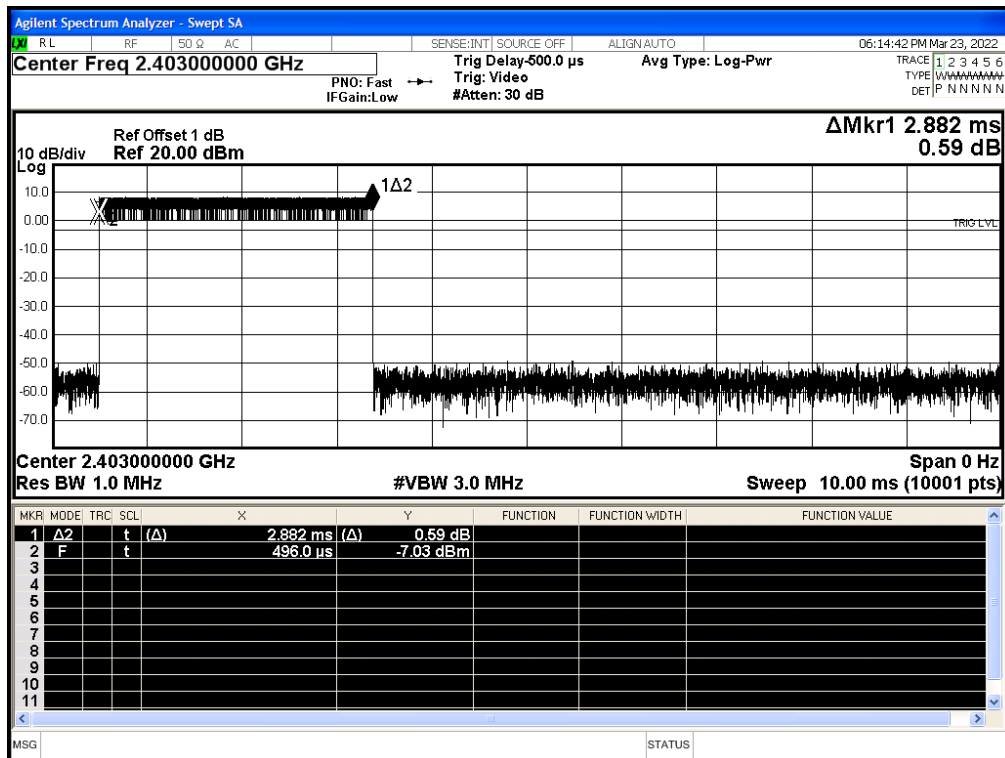
A.4 Time of occupancy

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	2.4G	2403	Ant1	2.882	72.05	25	10400	400	Pass
NVNT	2.4G	2442	Ant1	2.88	115.2	40	10400	400	Pass
NVNT	2.4G	2478	Ant1	2.883	106.67	37	10400	400	Pass

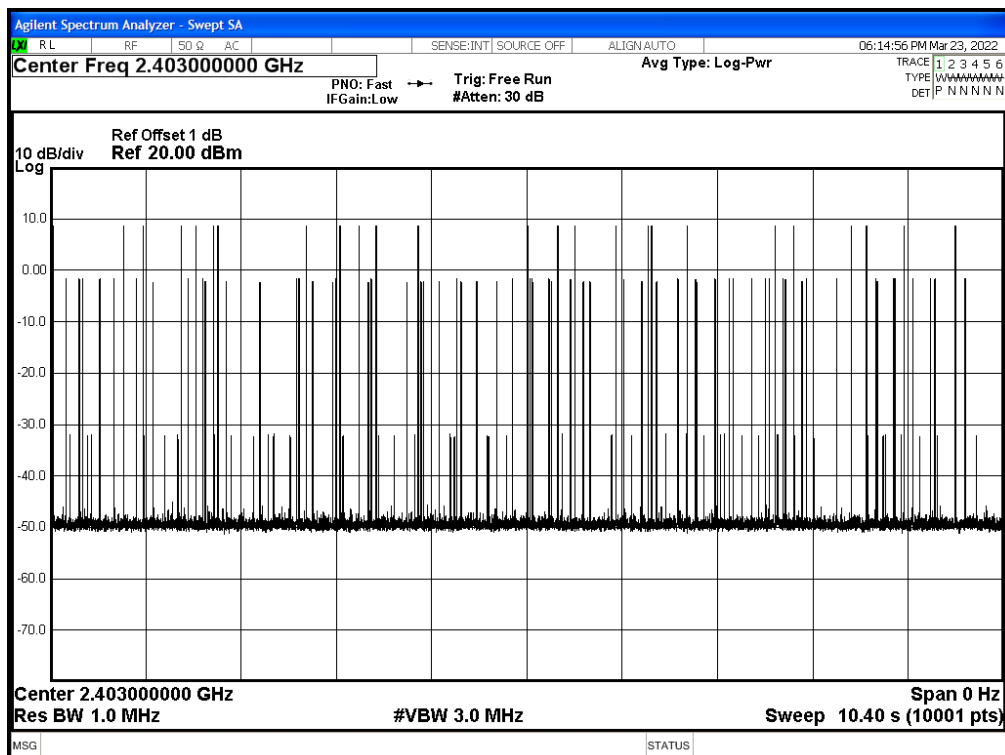


Test Graphs

Dwell NVNT 2.4G 2403MHz Ant1 One Burst

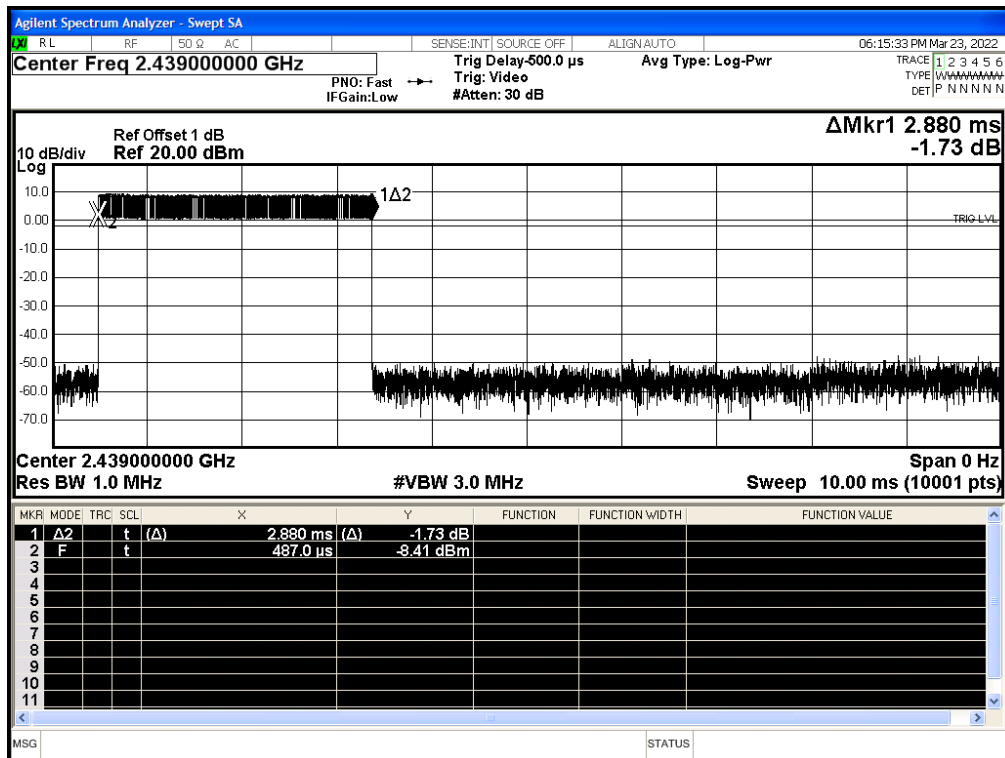


Dwell NVNT 2.4G 2403MHz Ant1 Accumulated

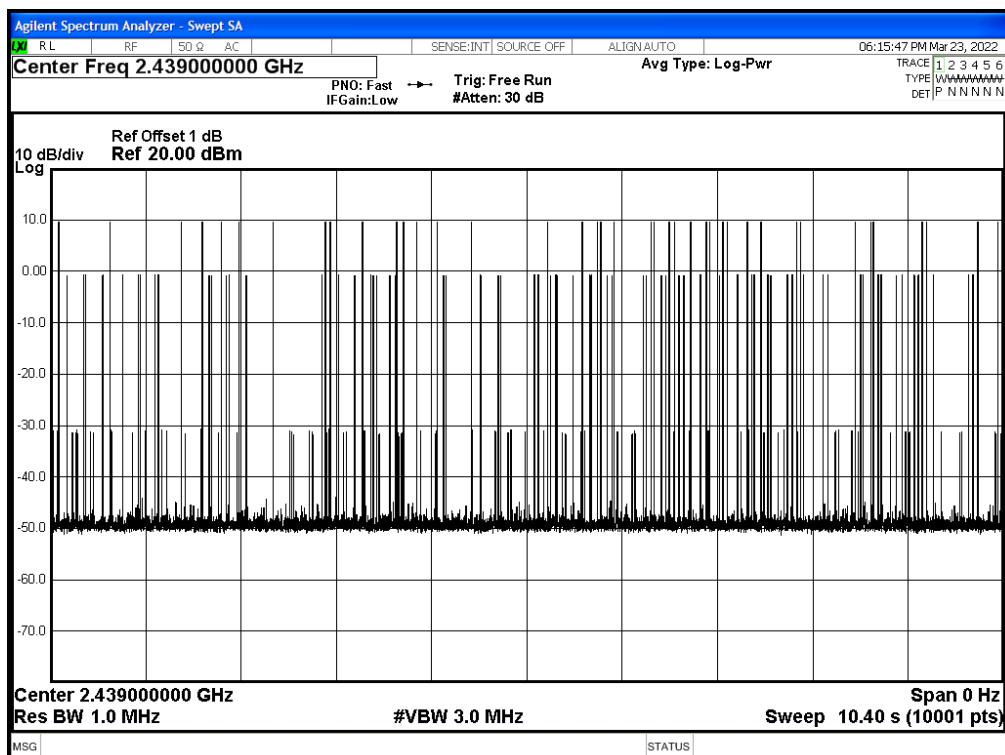




Dwell NVNT 2.4G 2439MHz Ant1 One Burst

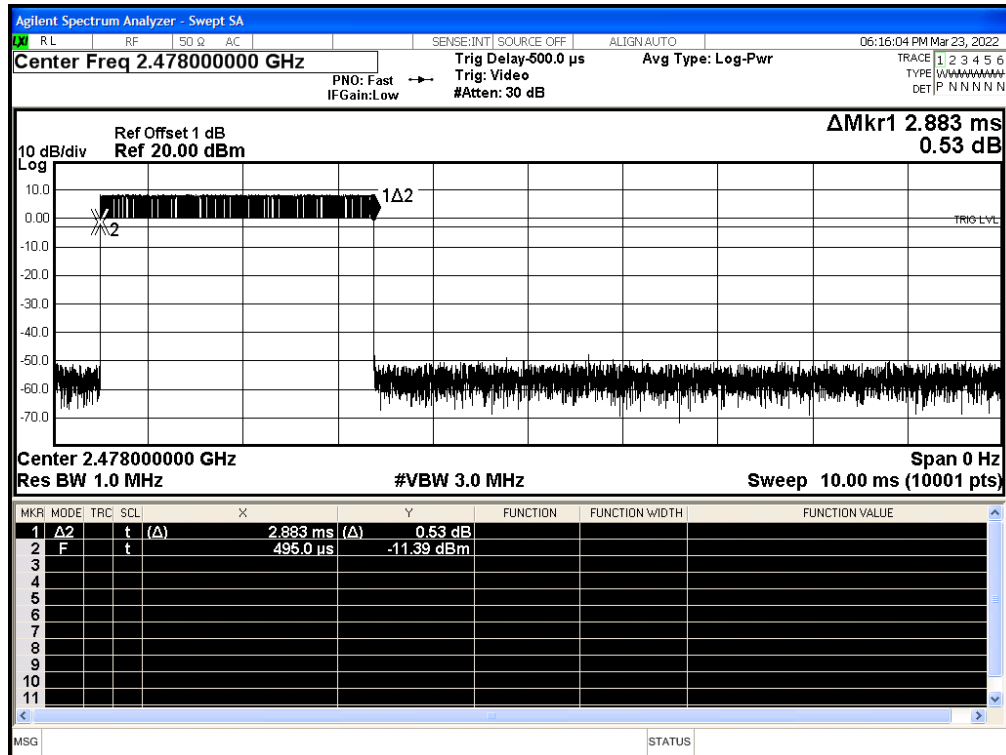


Dwell NVNT 2.4G 2439MHz Ant1 Accumulated

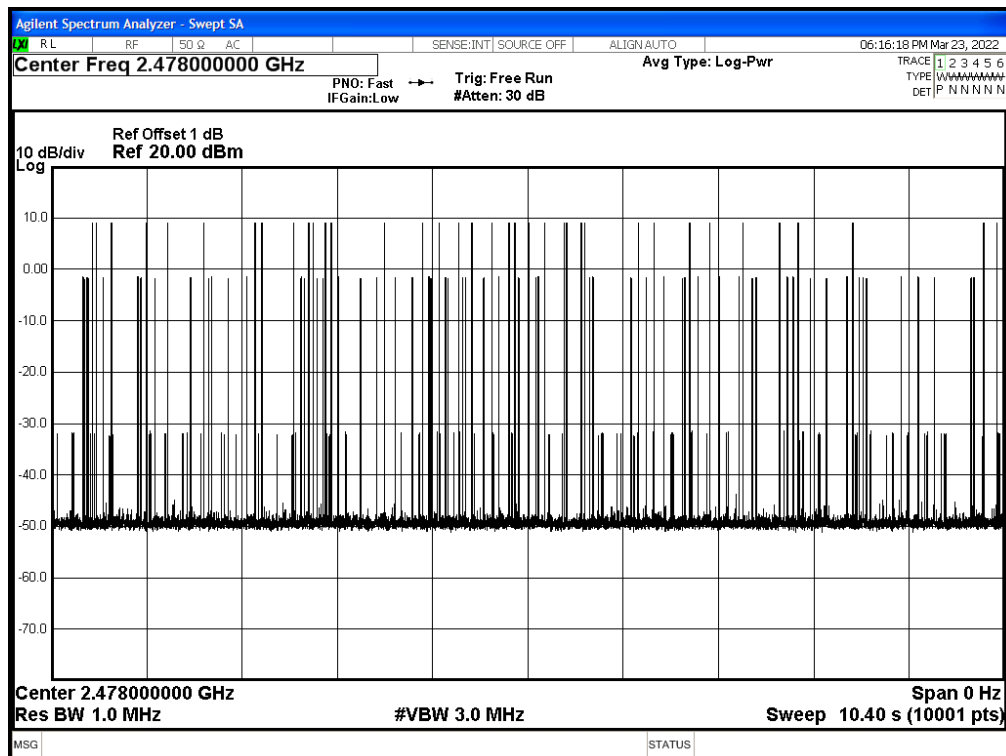




Dwell NVNT 2.4G 2478MHz Ant1 One Burst

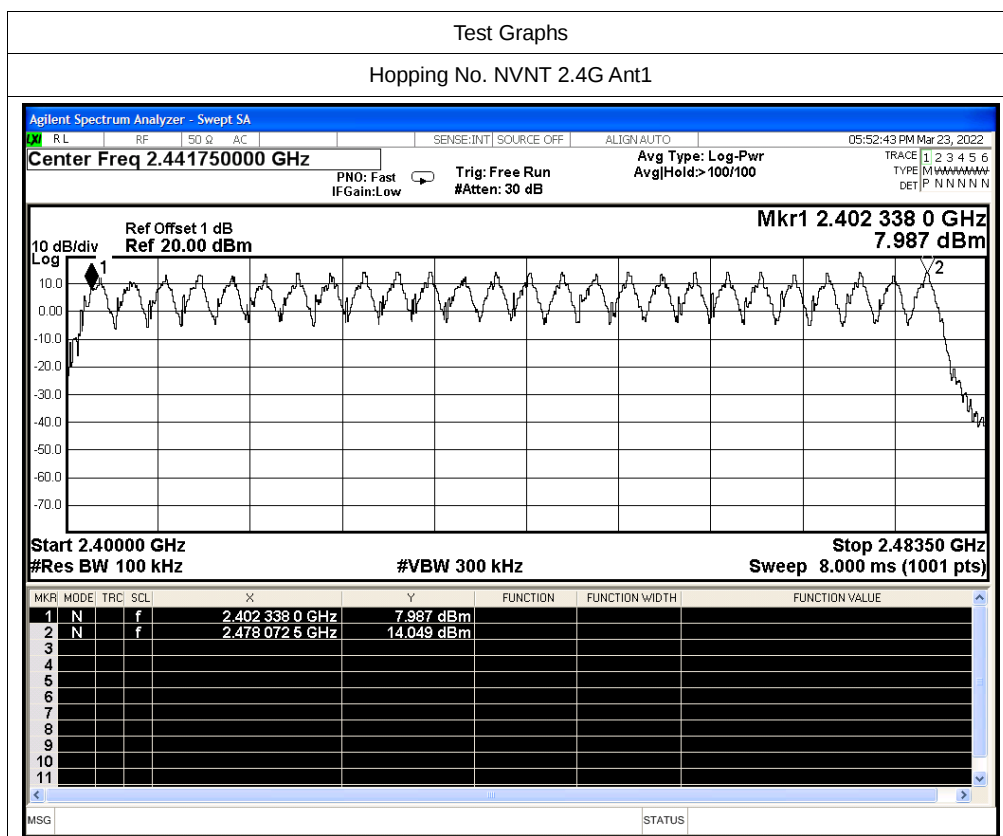


Dwell NVNT 2.4G 2478MHz Ant1 Accumulated





Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	2.4G	Ant1	26	15	Pass



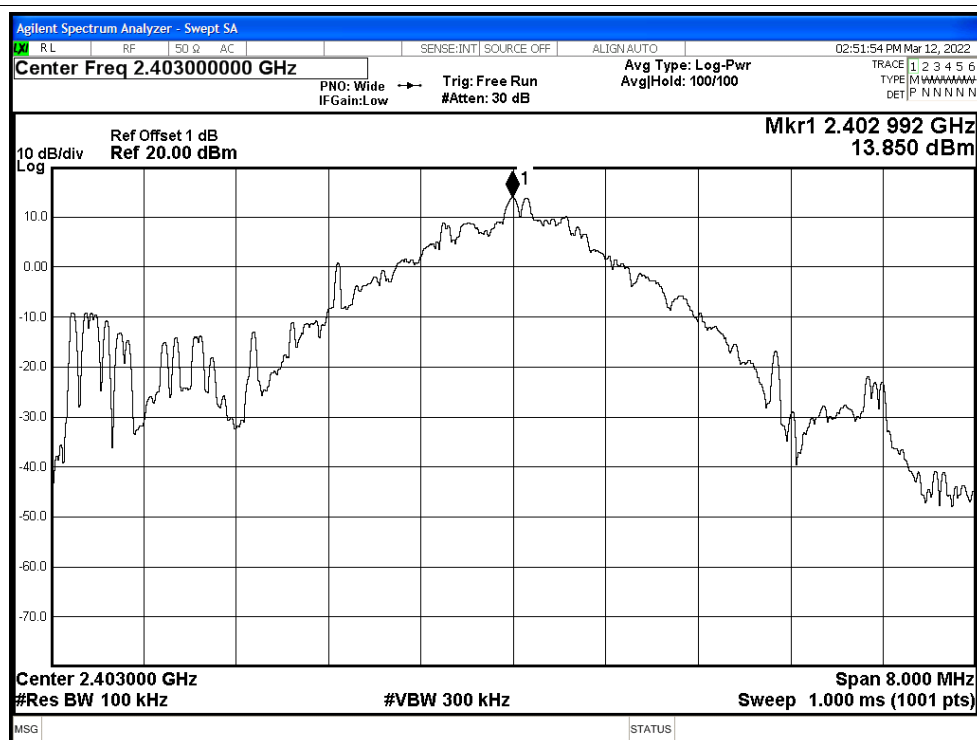


A.6 Band edge measurements

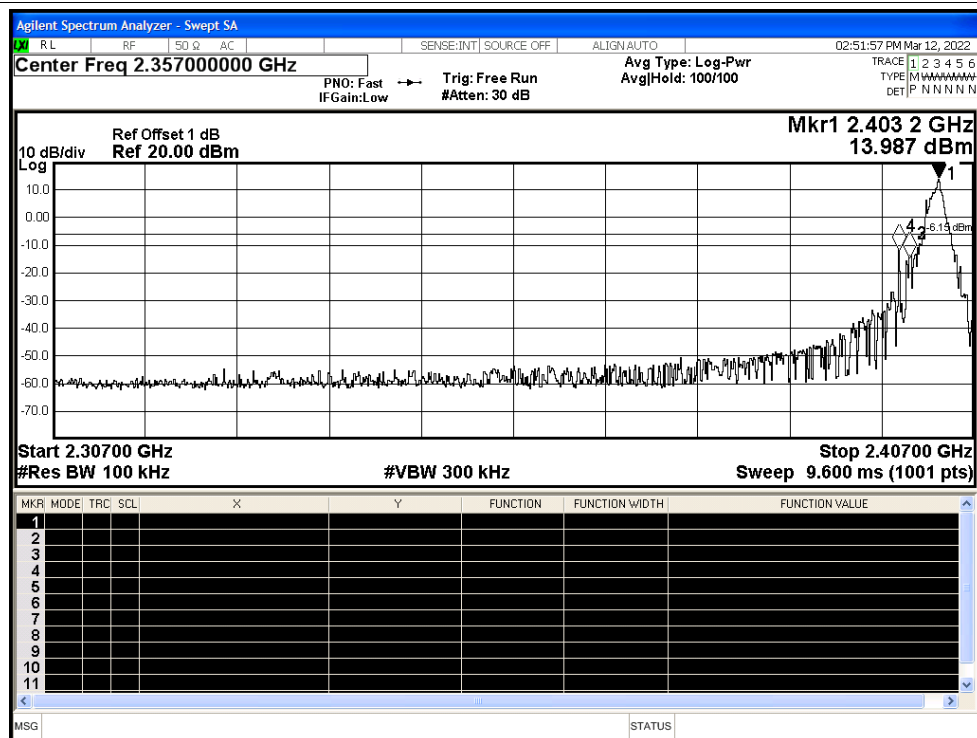
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2.4G	2403	Ant1	No-Hopping	-25.77	-20	Pass
NVNT	2.4G	2478	Ant1	No-Hopping	-51.06	-20	Pass

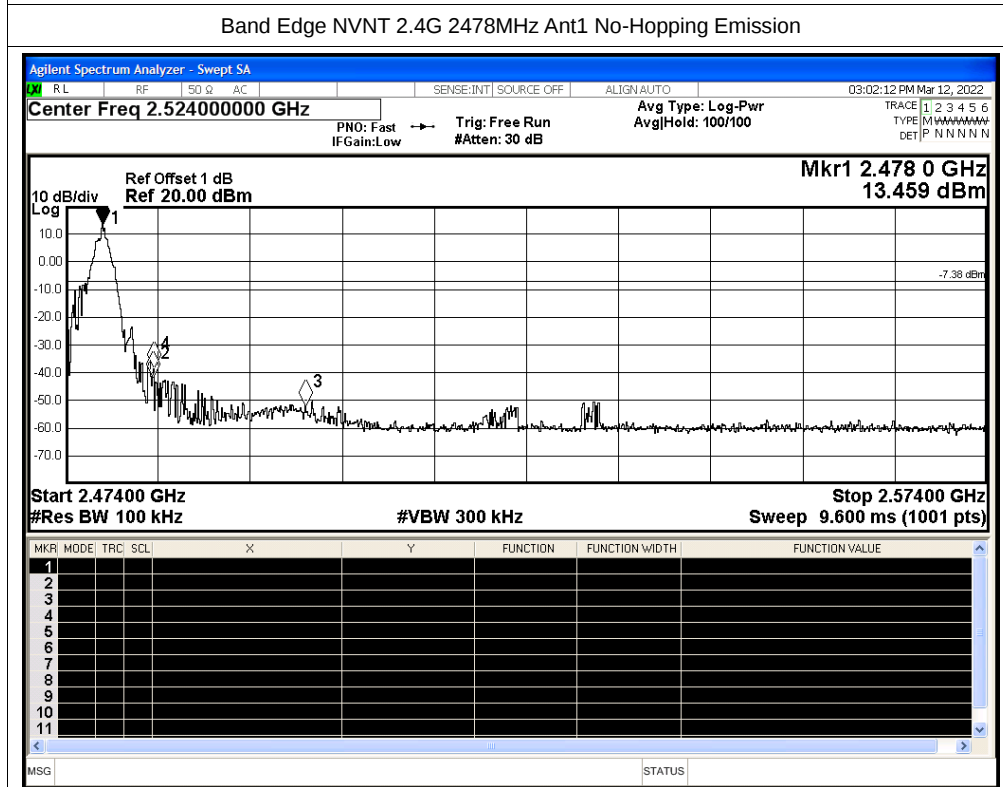


Band Edge NVNT 2.4G 2403MHz Ant1 No-Hopping Ref



Band Edge NVNT 2.4G 2403MHz Ant1 No-Hopping Emission





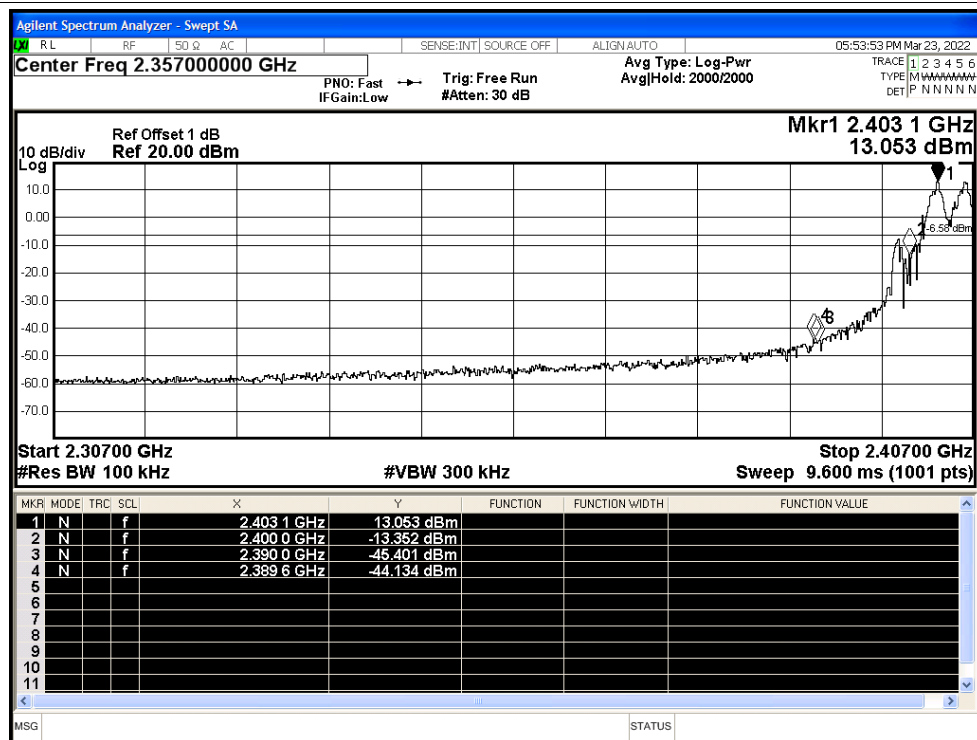
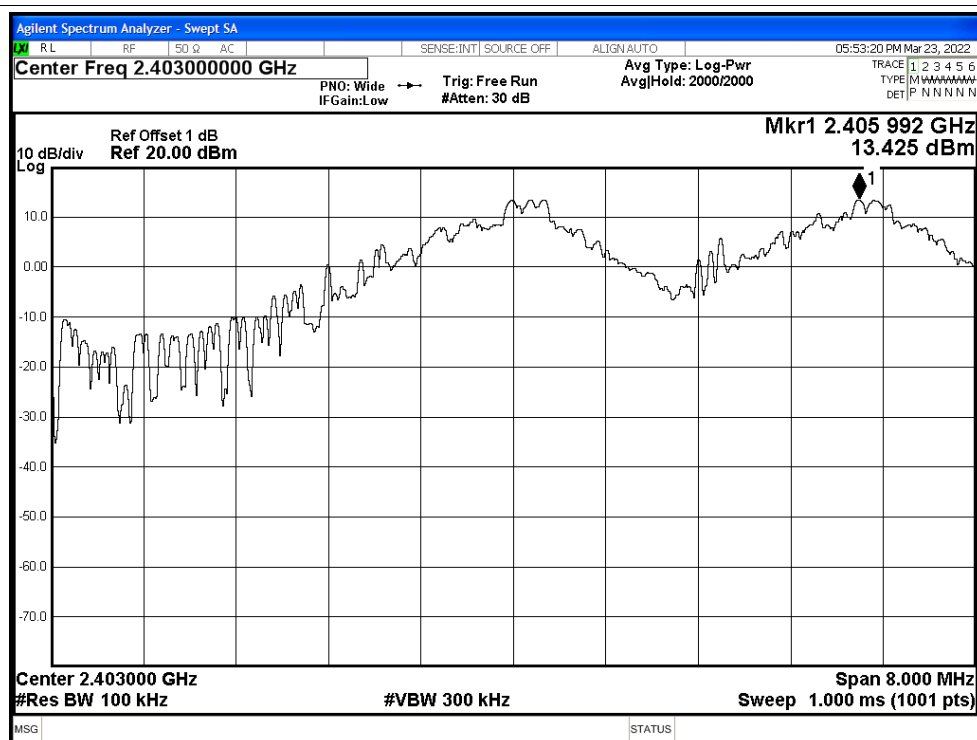


(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2.4G	2403	Ant1	Hopping	-57.56	-20	Pass
NVNT	2.4G	2478	Ant1	Hopping	-52.65	-20	Pass

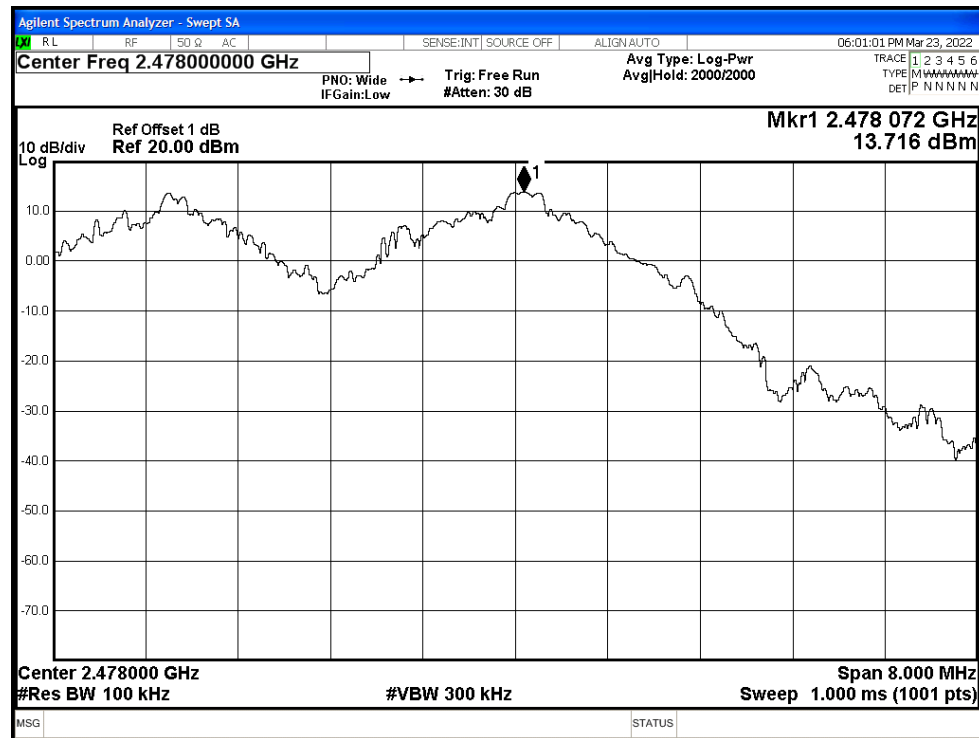


Band Edge(Hopping) NVNT 2.4G 2403MHz Ant1 Hopping Ref

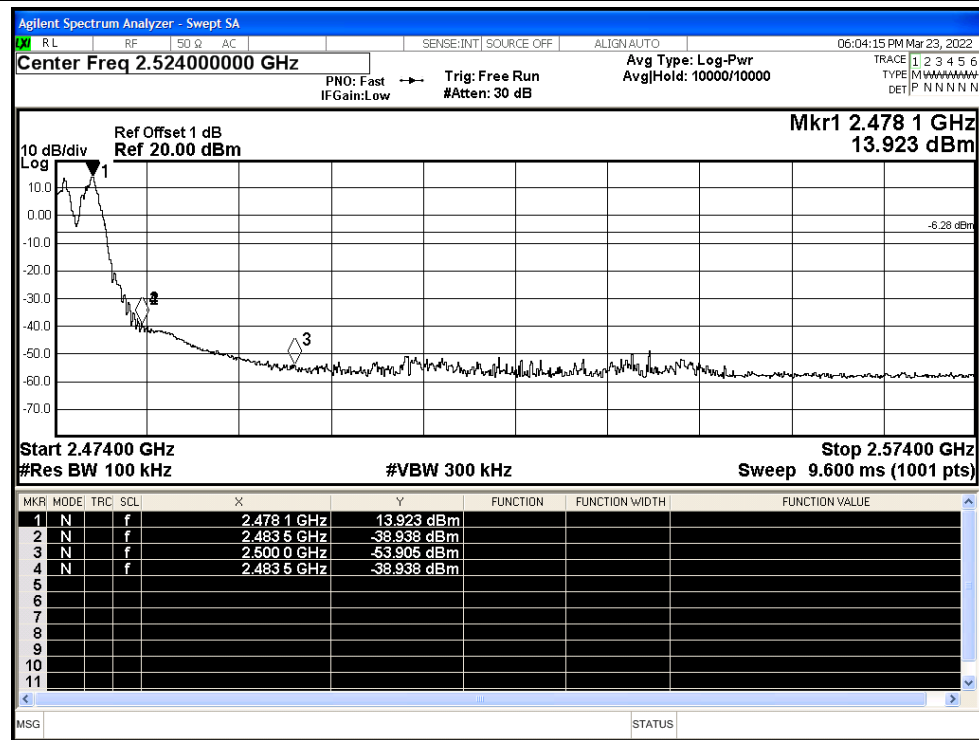




Band Edge(Hopping) NVNT 2.4G 2478MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 2.4G 2478MHz Ant1 Hopping Emission



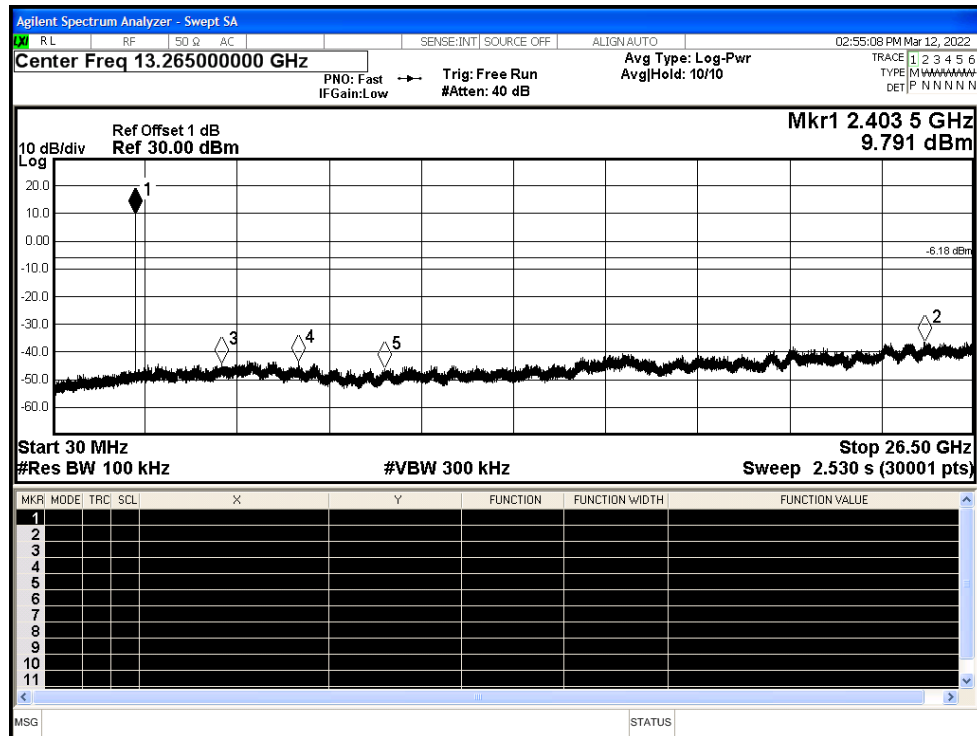
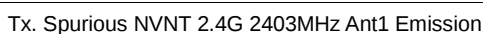


A.7 Conducted Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2.4G	2403	Ant1	-50.25	-20	Pass
NVNT	2.4G	2439	Ant1	-49.59	-20	Pass
NVNT	2.4G	2478	Ant1	-58.39	-20	Pass

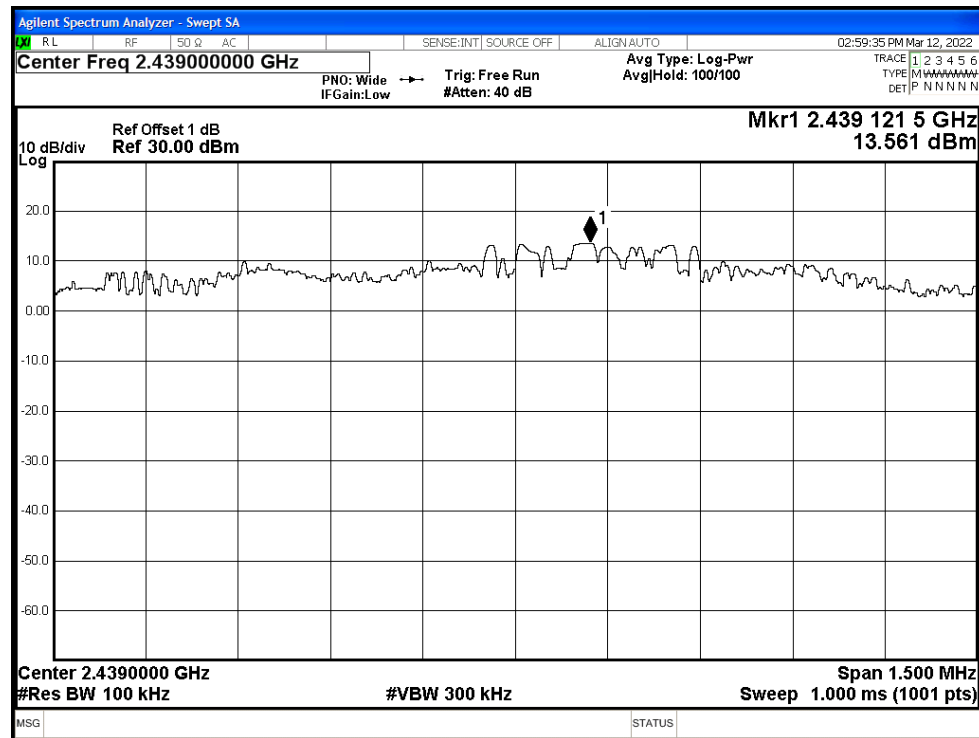


Tx. Spurious NVNT 2.4G 2403MHz Ant1 Ref

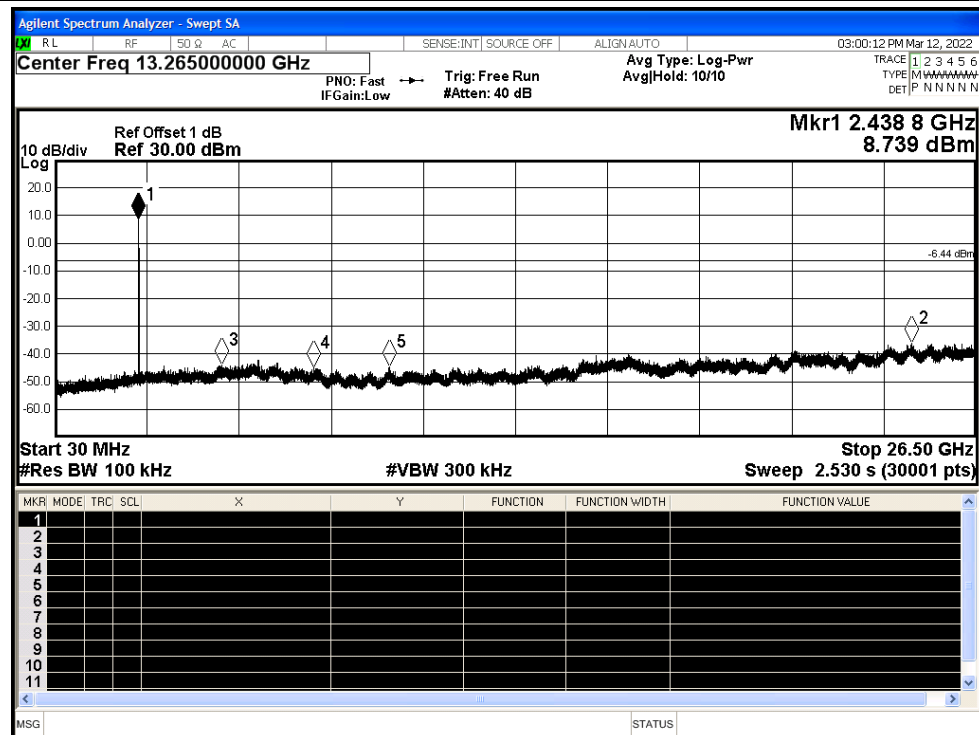


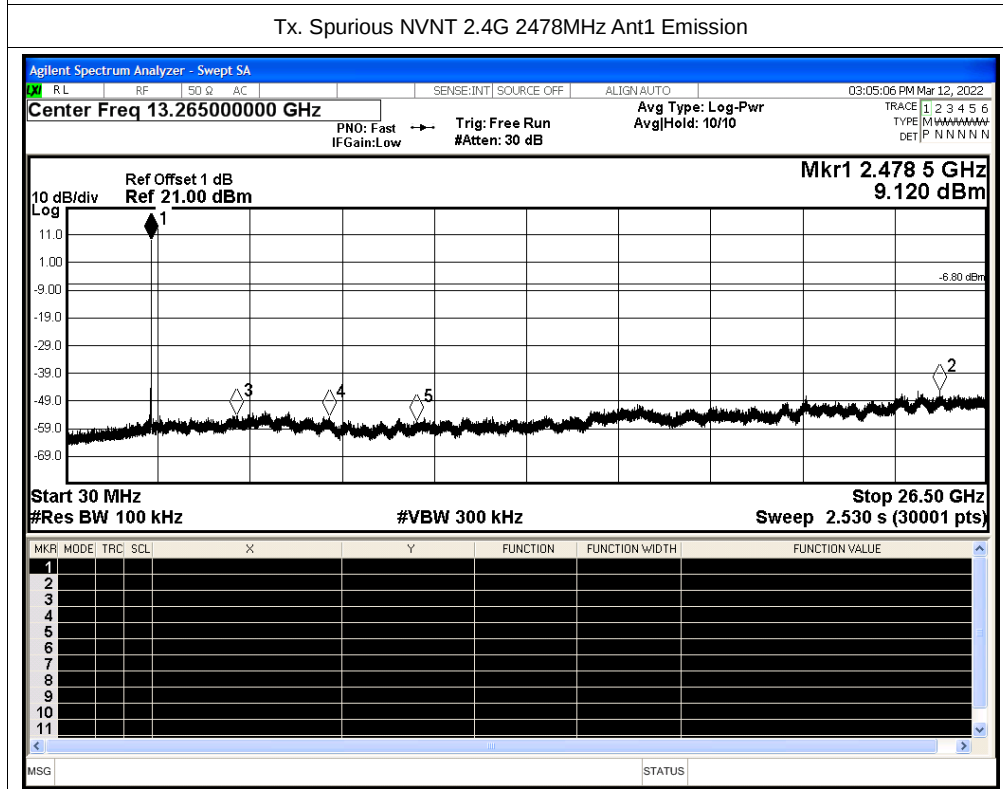


Tx. Spurious NVNT 2.4G 2439MHz Ant1 Ref



Tx. Spurious NVNT 2.4G 2439MHz Ant1 Emission





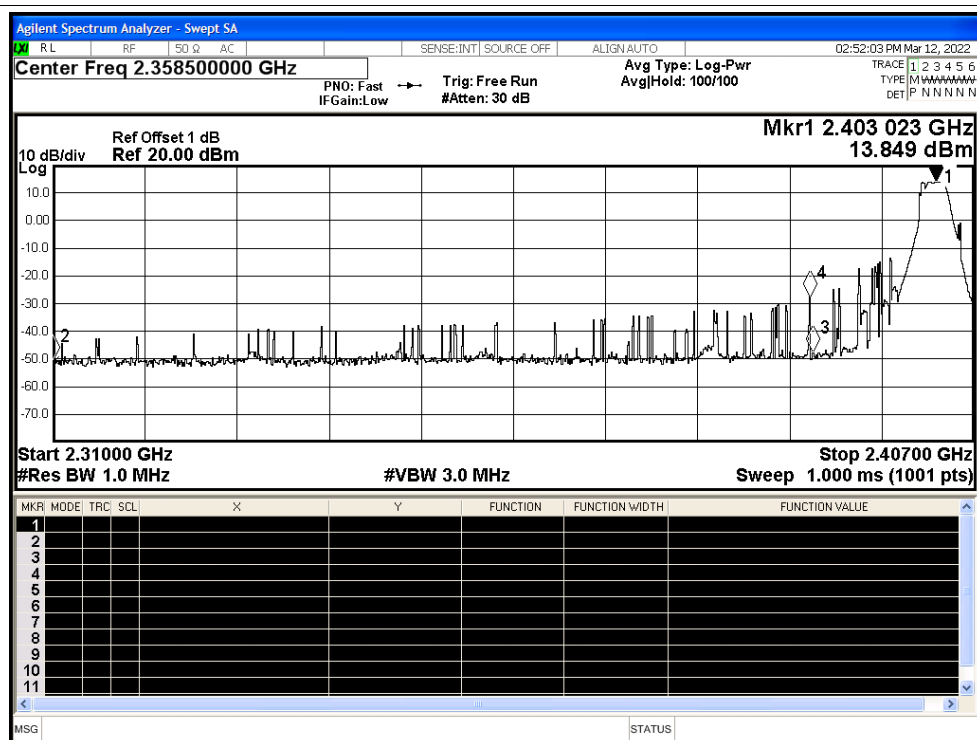


A.8 Emissions in Restricted Bands

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	2403	Ant1	No-Hopping	2310	-50.74	2	46.52	Peak	74	Pass
NVNT	2.4G	2403	Ant1	No-Hopping	2310	-60.61	2	36.65	Average	54	Pass
NVNT	2.4G	2403	Ant1	No-Hopping	2389.734	-27.67	2	69.59	Peak	74	Pass
NVNT	2.4G	2403	Ant1	No-Hopping	2387.891	-48.35	2	48.91	Average	54	Pass
NVNT	2.4G	2403	Ant1	No-Hopping	2390	-47.77	2	49.49	Peak	74	Pass
NVNT	2.4G	2403	Ant1	No-Hopping	2390	-58.65	2	38.61	Average	54	Pass
NVNT	2.4G	2478	Ant1	No-Hopping	2483.5	-42.9	2	54.36	Peak	74	Pass
NVNT	2.4G	2478	Ant1	No-Hopping	2483.5	-52.66	2	44.6	Average	54	Pass
NVNT	2.4G	2478	Ant1	No-Hopping	2485.518	-24.17	2	73.09	Peak	74	Pass
NVNT	2.4G	2478	Ant1	No-Hopping	2483.516	-52.66	2	44.6	Average	54	Pass
NVNT	2.4G	2478	Ant1	No-Hopping	2500	-49.84	2	47.42	Peak	74	Pass
NVNT	2.4G	2478	Ant1	No-Hopping	2500	-59.95	2	37.31	Average	54	Pass



Restrict Band NVNT 2.4G 2403MHz Ant1 No-Hopping Peak



Restrict Band NVNT 2.4G 2403MHz Ant1 No-Hopping Average

