



FCC Appendix RF Test Data for BT

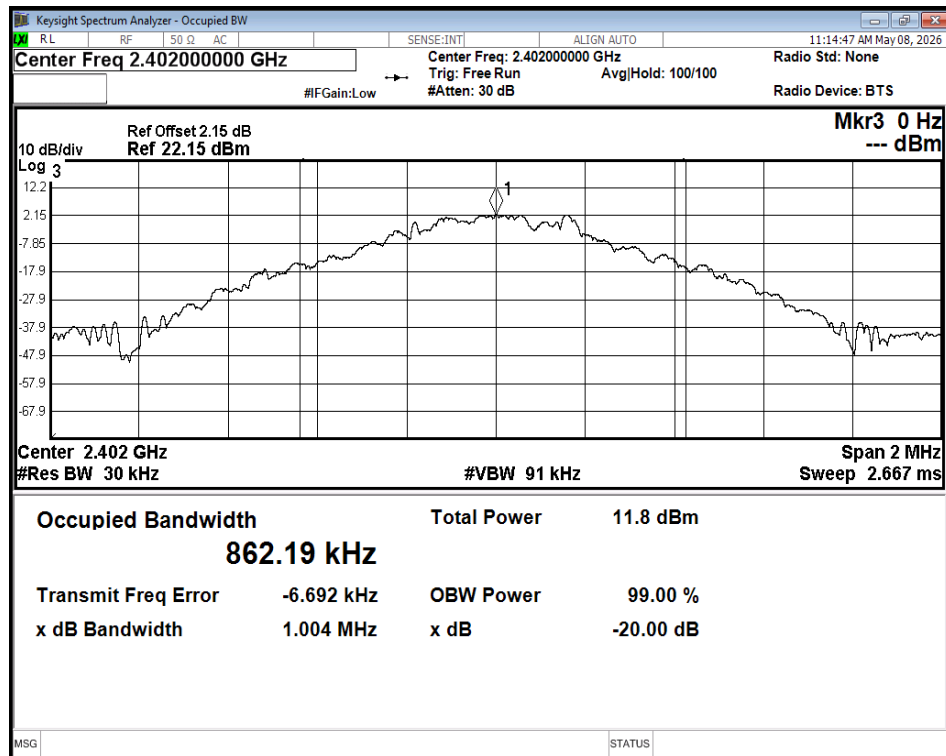
Product Name: Smart Phone
Test Model: Philips S8310

Environmental Conditions

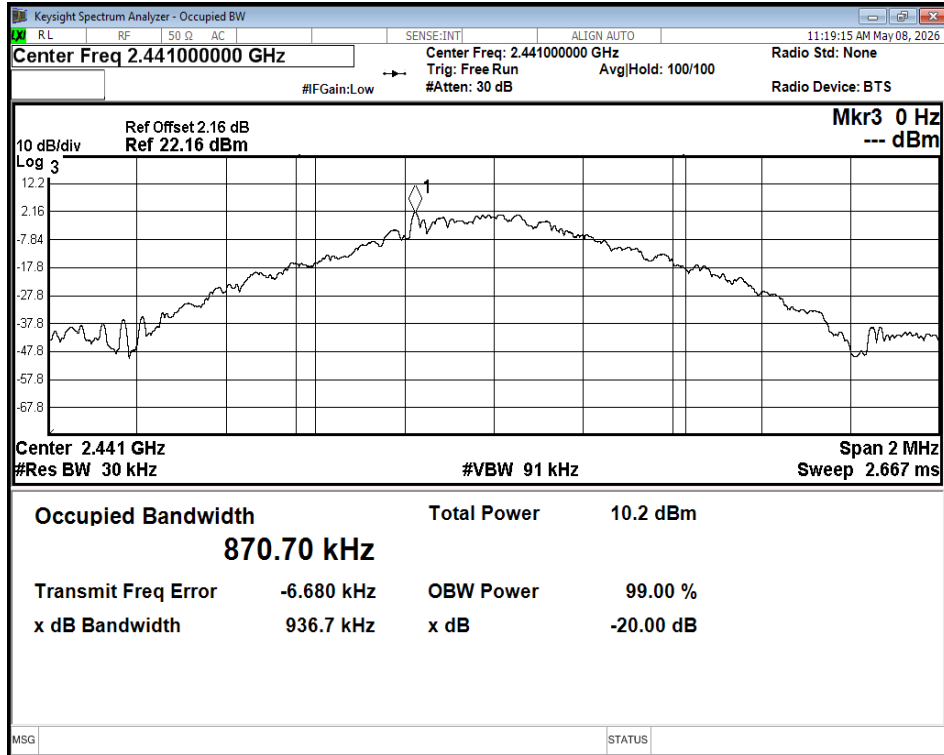
Temperature:	23.6° C
Relative Humidity:	54.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Zoey Cao
Supervised by:	Eric Wang

1 -20dB Bandwidth

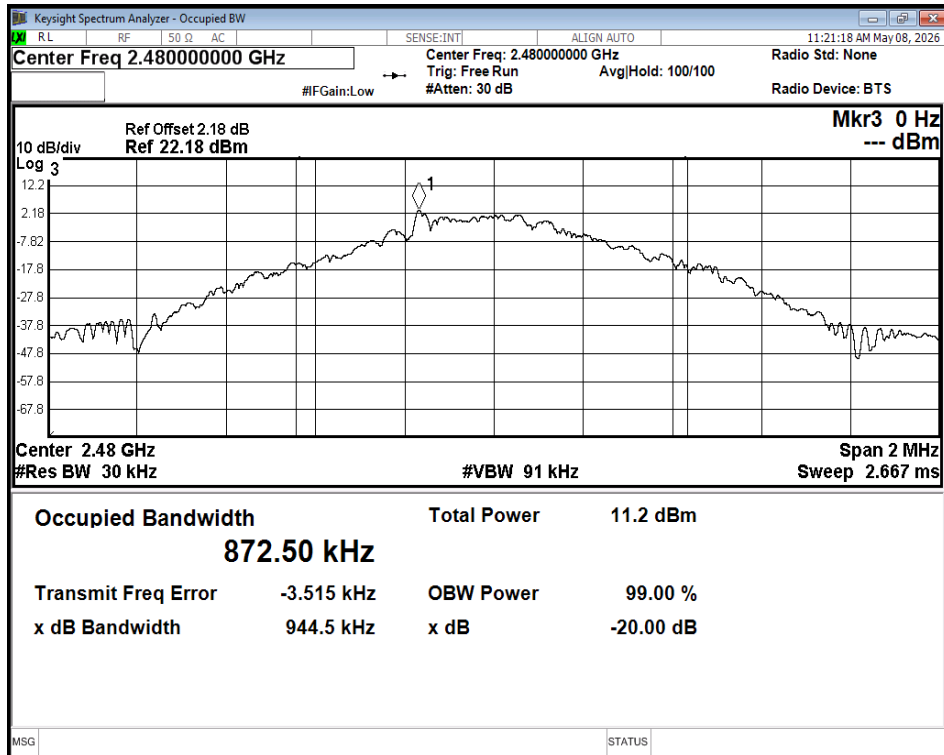
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.0041	0	Pass
NVNT	1-DH5	2441	Ant1	0.9367	0	Pass
NVNT	1-DH5	2480	Ant1	0.9445	0	Pass
NVNT	2-DH5	2402	Ant1	1.2830	0	Pass
NVNT	2-DH5	2441	Ant1	1.2849	0	Pass
NVNT	2-DH5	2480	Ant1	1.2838	0	Pass
NVNT	3-DH5	2402	Ant1	1.2898	0	Pass
NVNT	3-DH5	2441	Ant1	1.2893	0	Pass
NVNT	3-DH5	2480	Ant1	1.3009	0	Pass



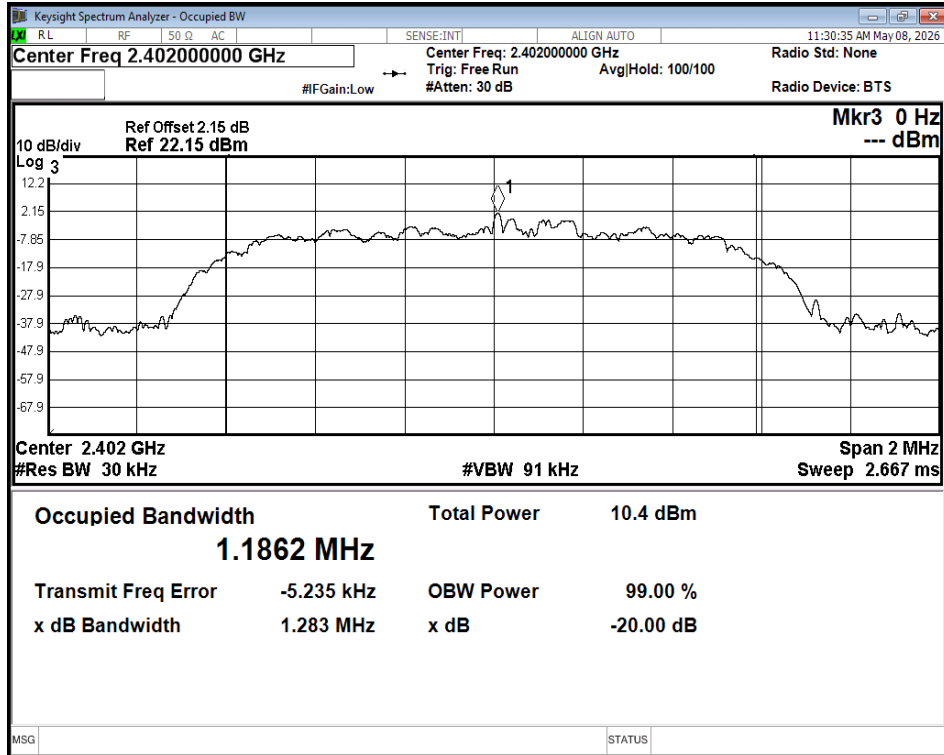
-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



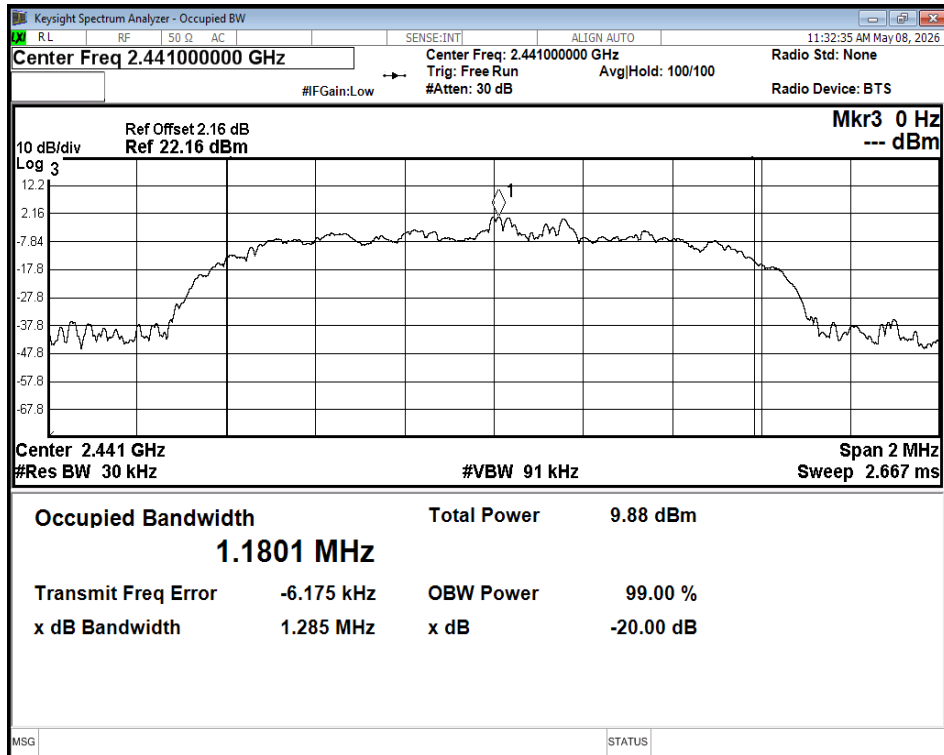
-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



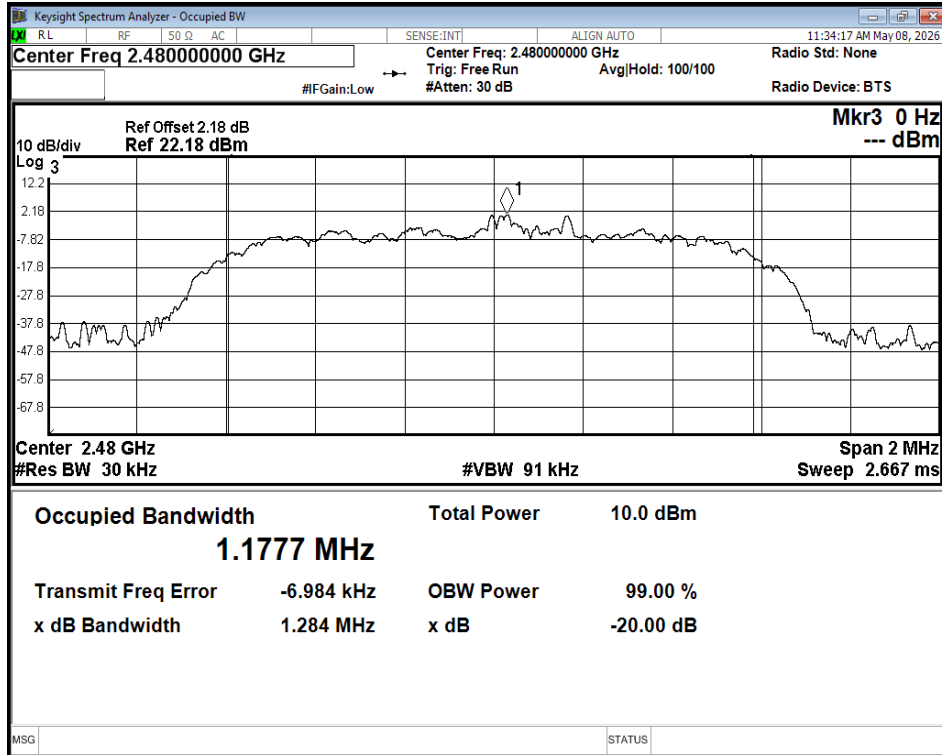
-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



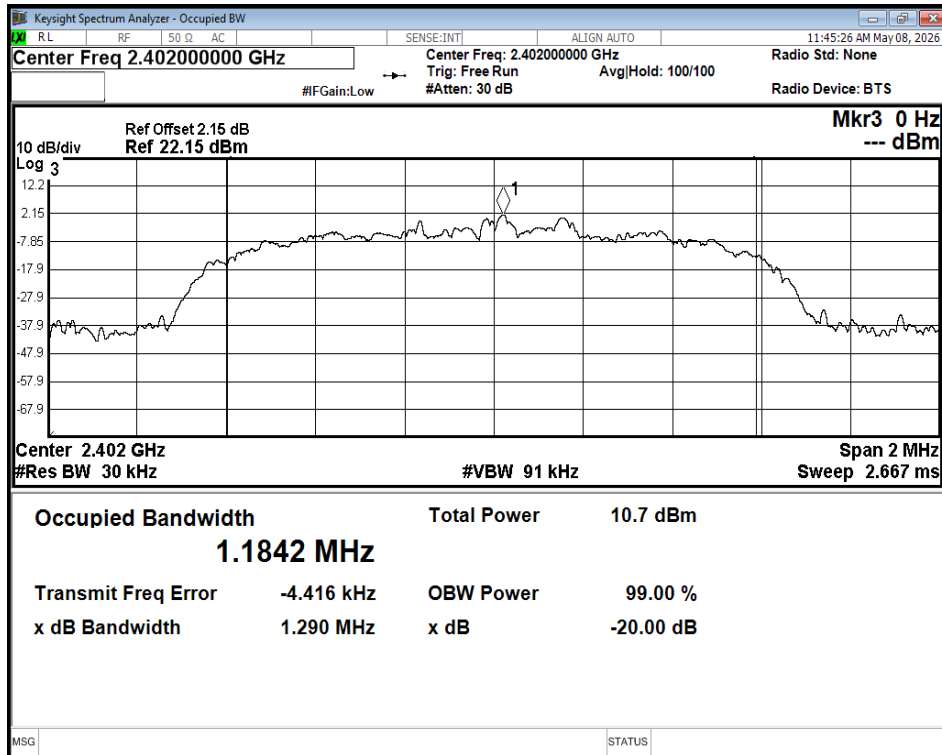
-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



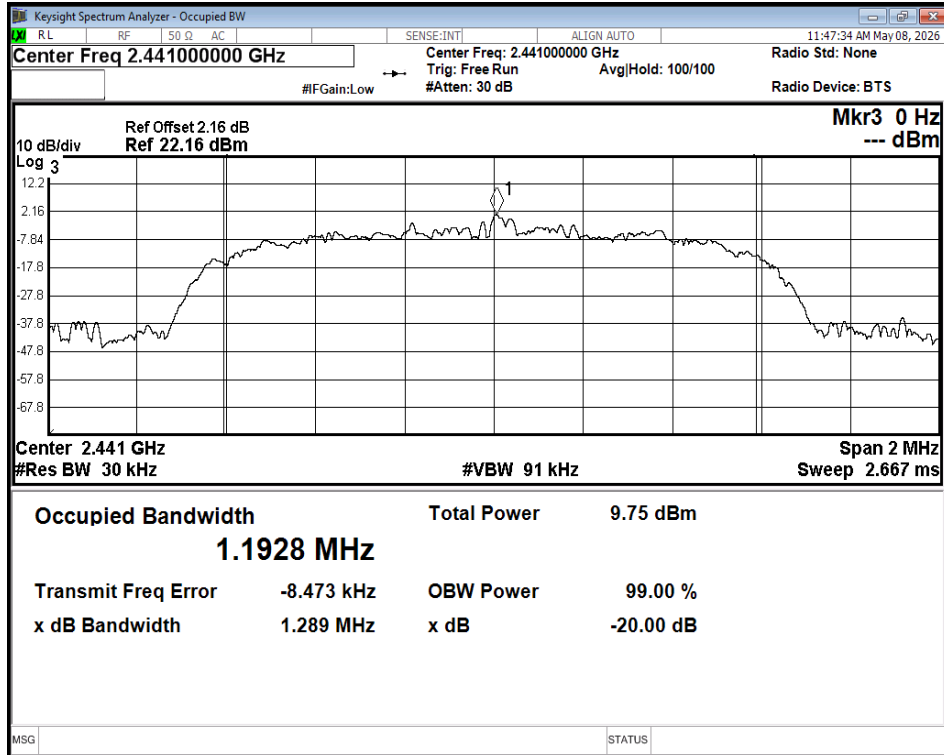
-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



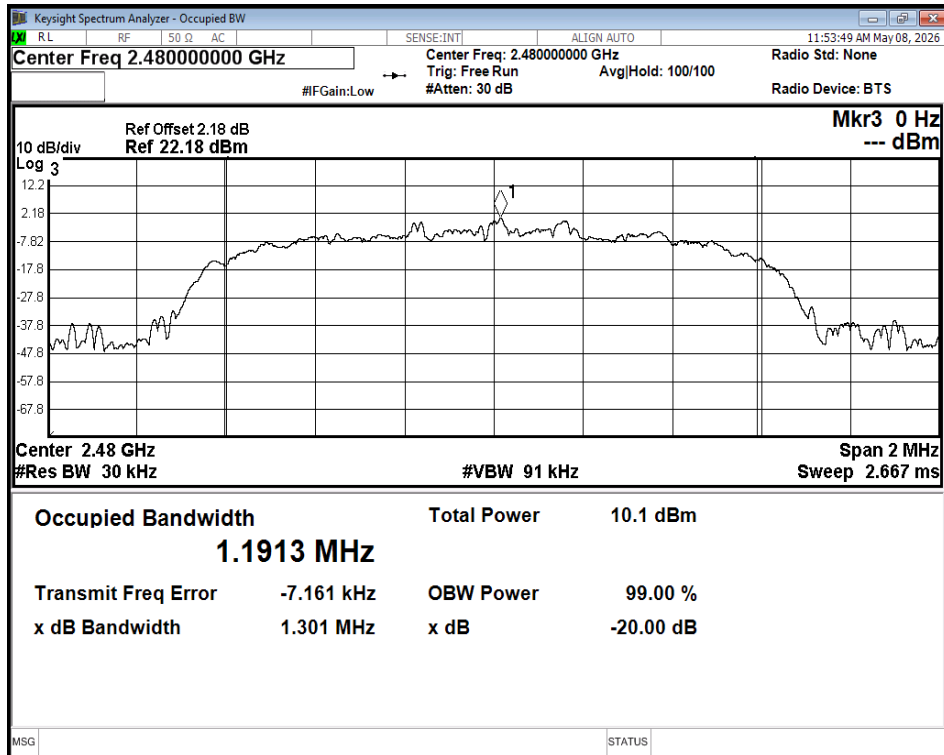
-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1

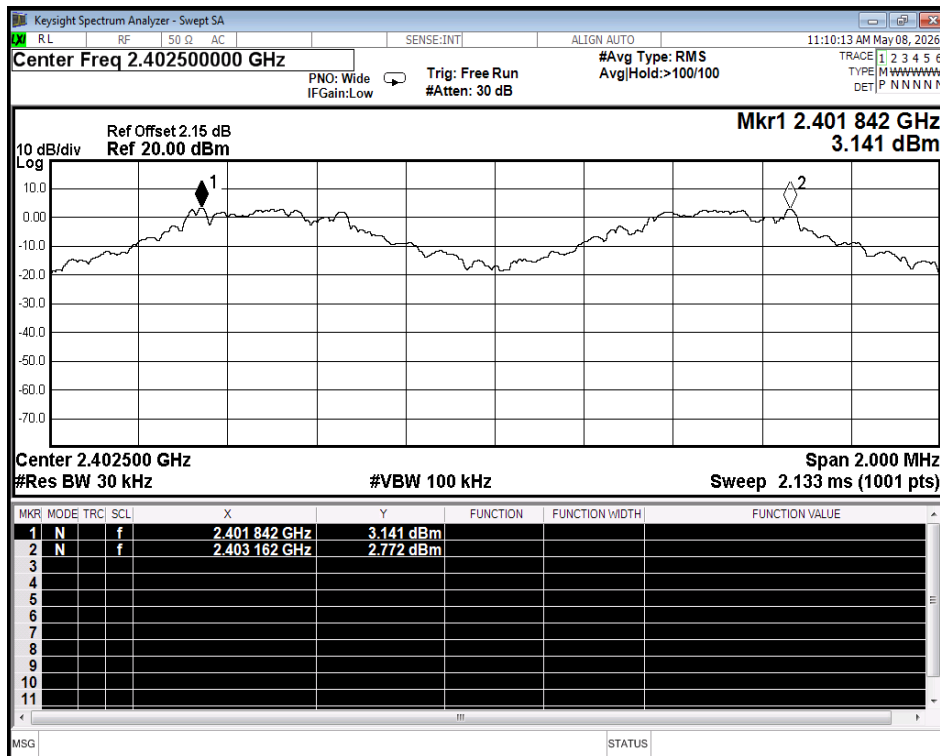


2 Maximum Peak Conducted Output Power

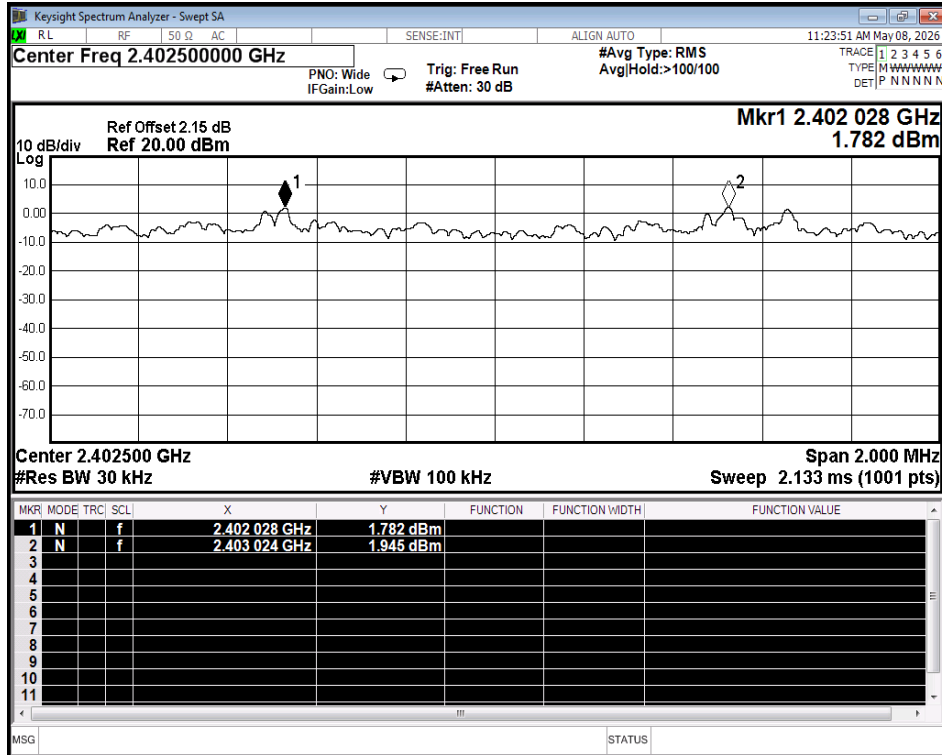
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit Conducted(dBm)	Verdict
NVNT	1-DH5	2402	Ant1	3.37	30	Pass
NVNT	1-DH5	2441	Ant1	2.14	30	Pass
NVNT	1-DH5	2480	Ant1	2.95	30	Pass
NVNT	2-DH5	2402	Ant1	3.65	30	Pass
NVNT	2-DH5	2441	Ant1	3.13	30	Pass
NVNT	2-DH5	2480	Ant1	3.43	30	Pass
NVNT	3-DH5	2402	Ant1	3.94	30	Pass
NVNT	3-DH5	2441	Ant1	3.44	30	Pass
NVNT	3-DH5	2480	Ant1	3.74	30	Pass

3 Carrier Frequencies Separation

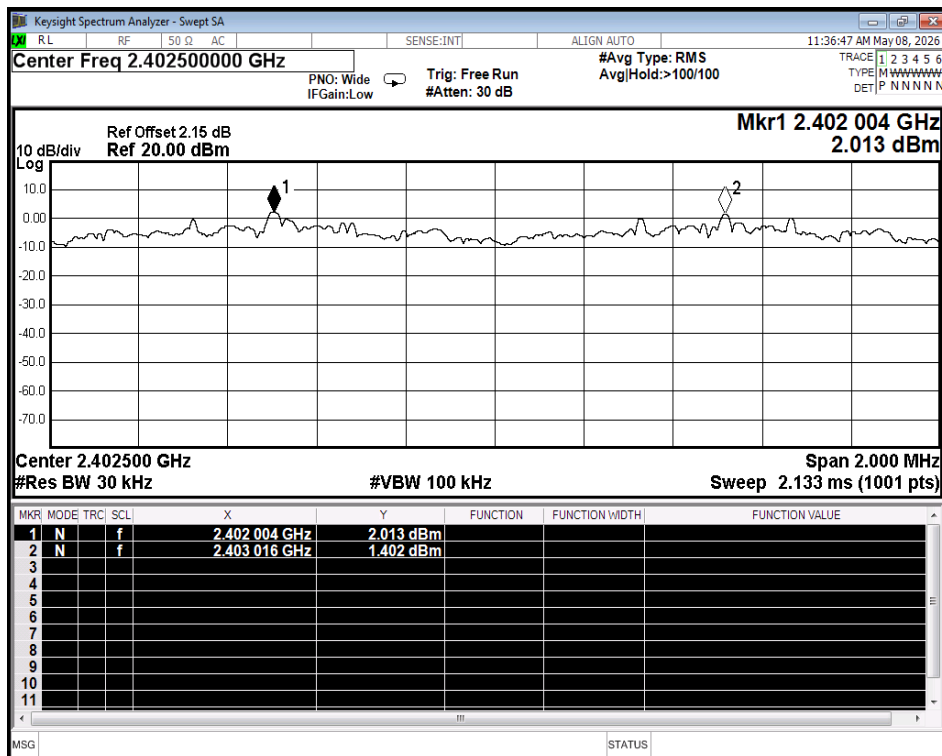
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.842	2403.162	1.32	0.669	Pass
NVNT	2-DH5	Ant1	2402.028	2403.024	0.996	0.857	Pass
NVNT	3-DH5	Ant1	2402.004	2403.016	1.012	0.867	Pass



CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1

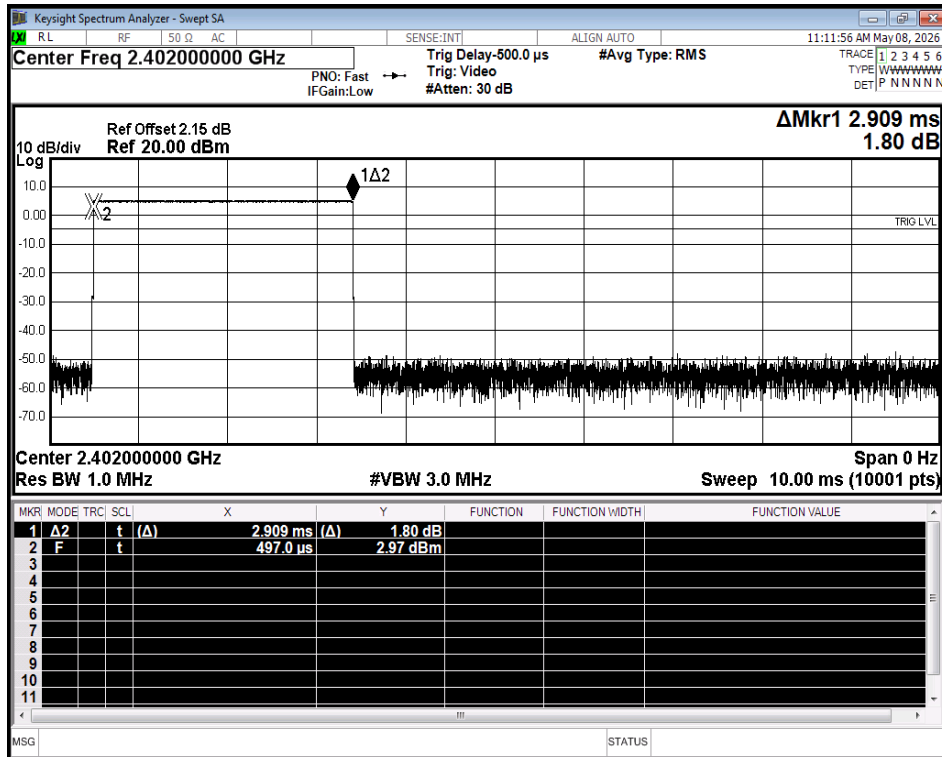


CFS NVNT 3-DH5 2402MHz Ant1

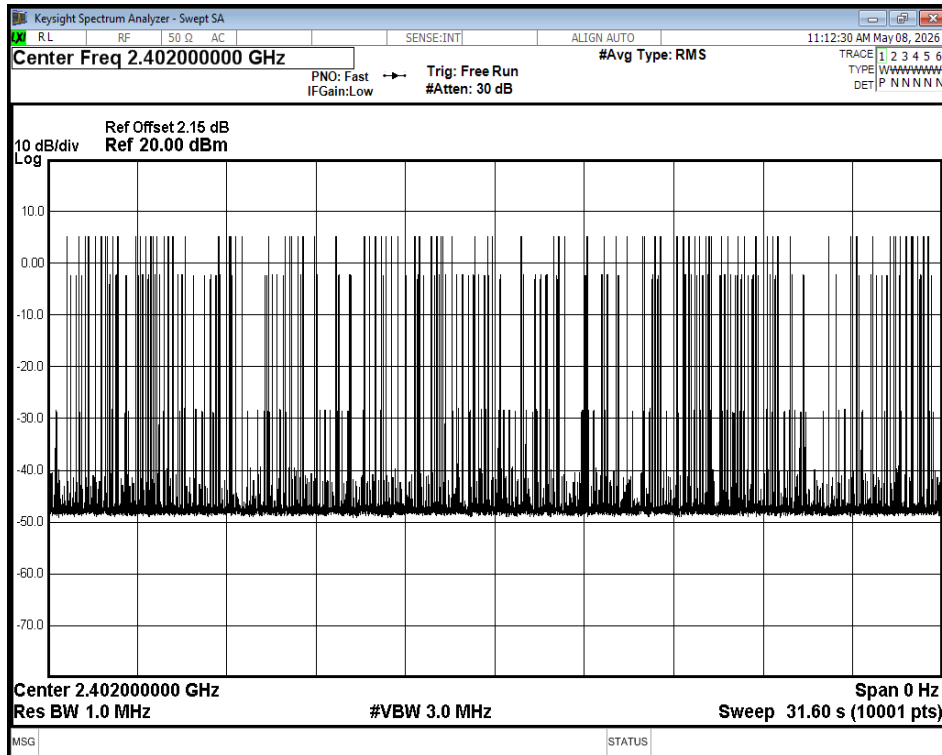


4 Dwell Time

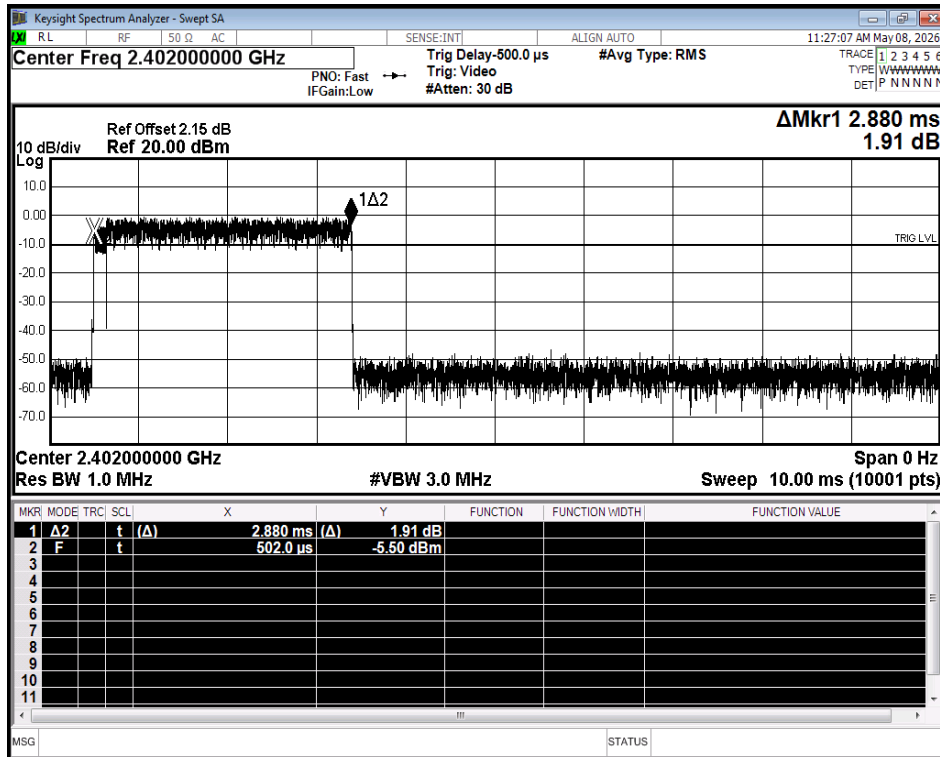
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.909	328.717	113	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.88	334.08	116	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.882	299.728	104	31600	400	Pass



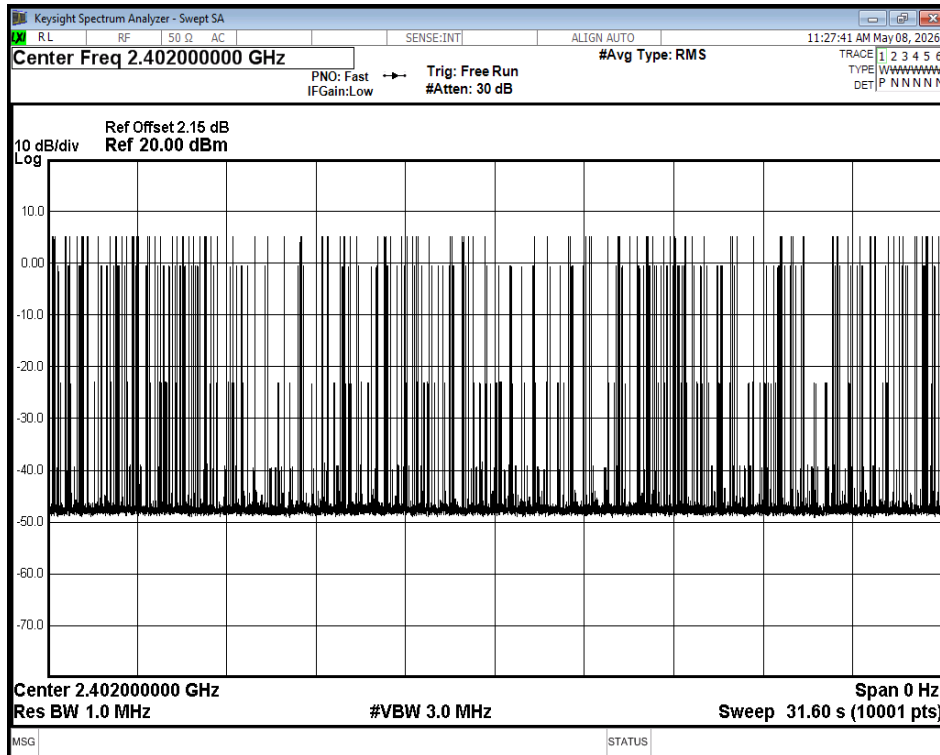
Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



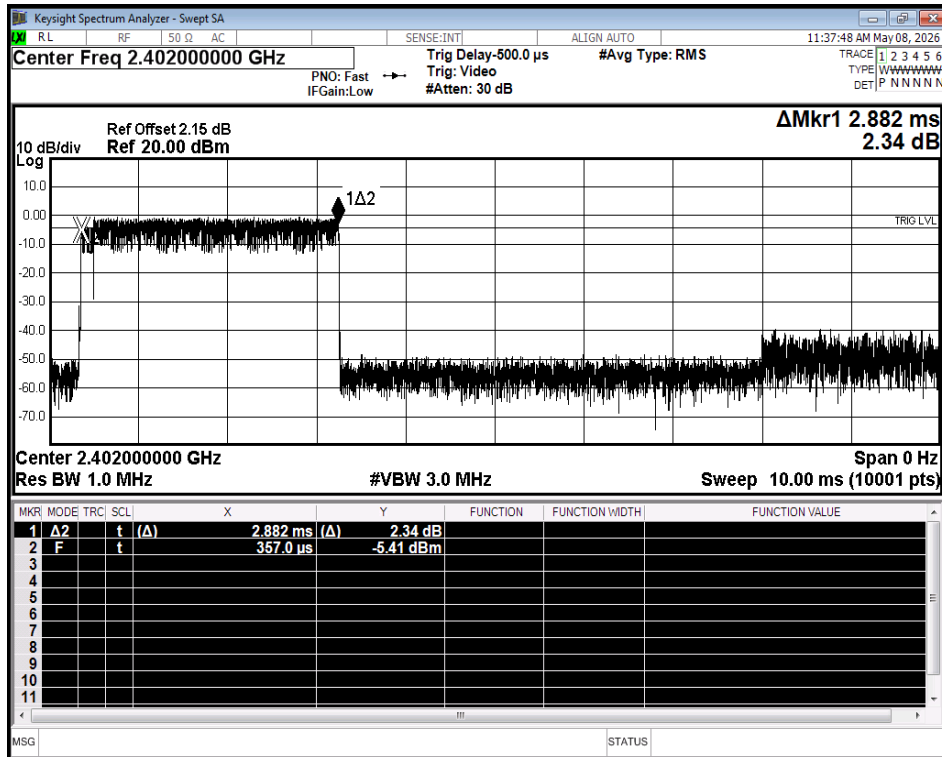
Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



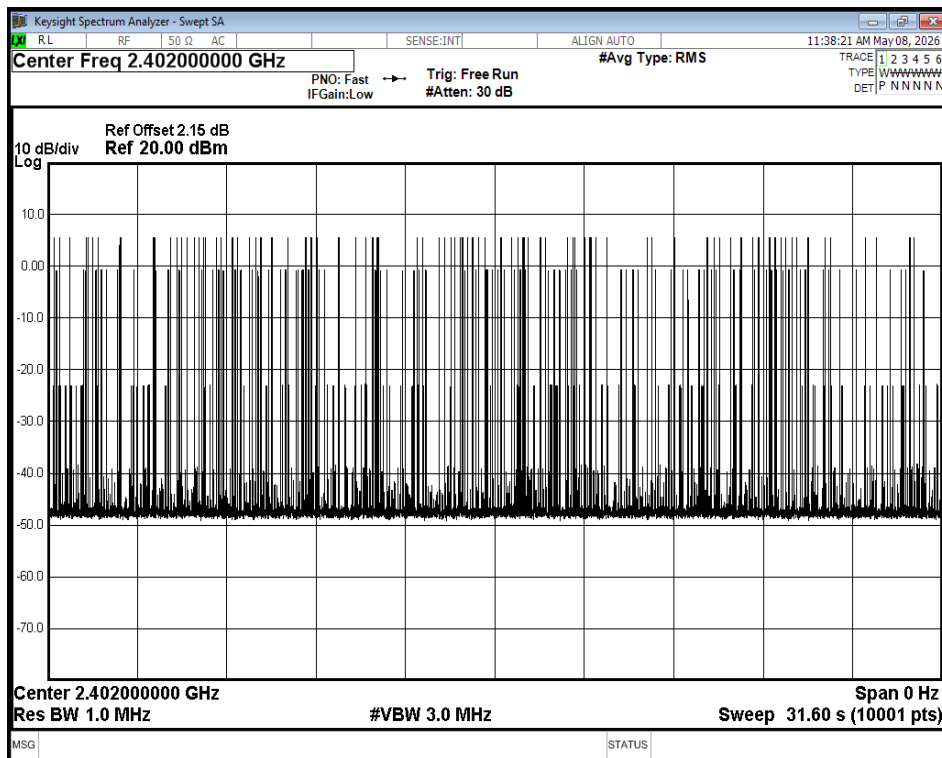
Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



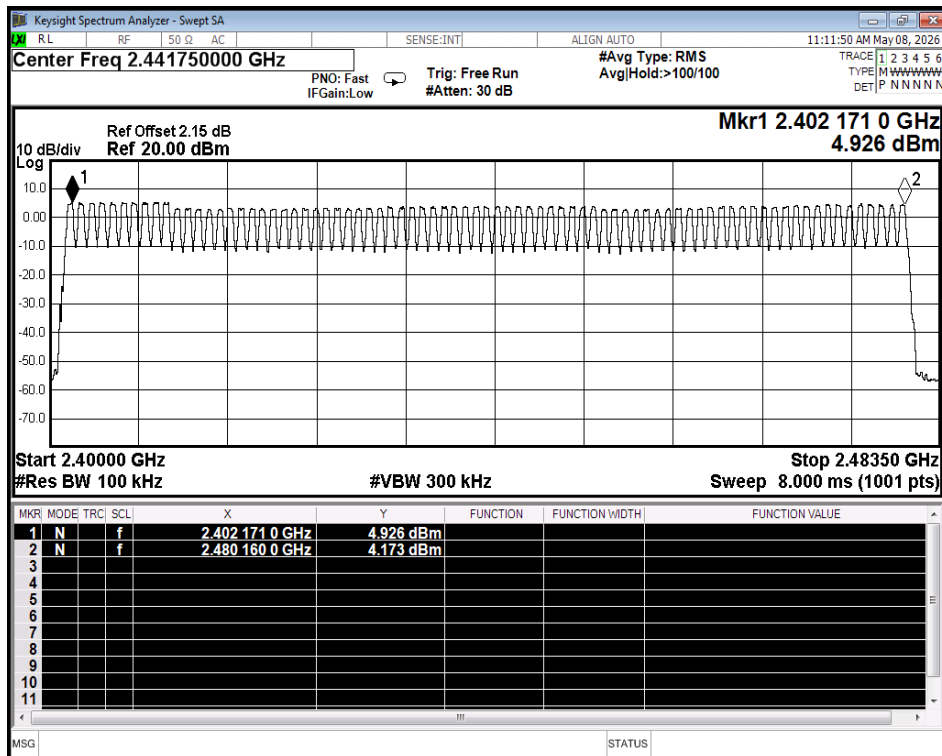
Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



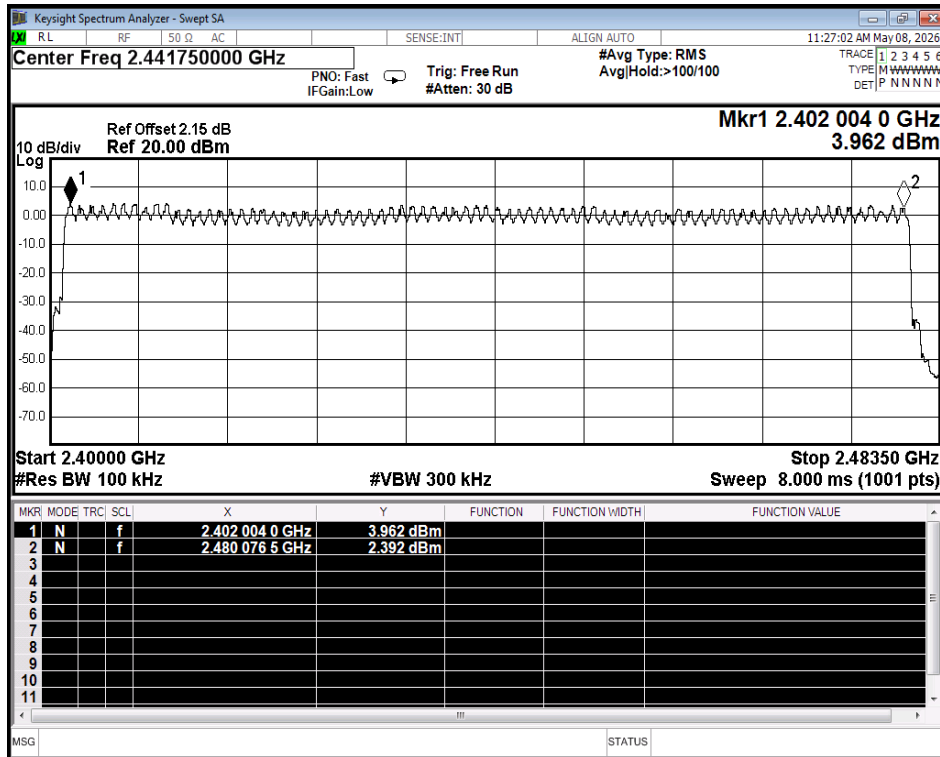
Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated

5 Number of Hopping Channel

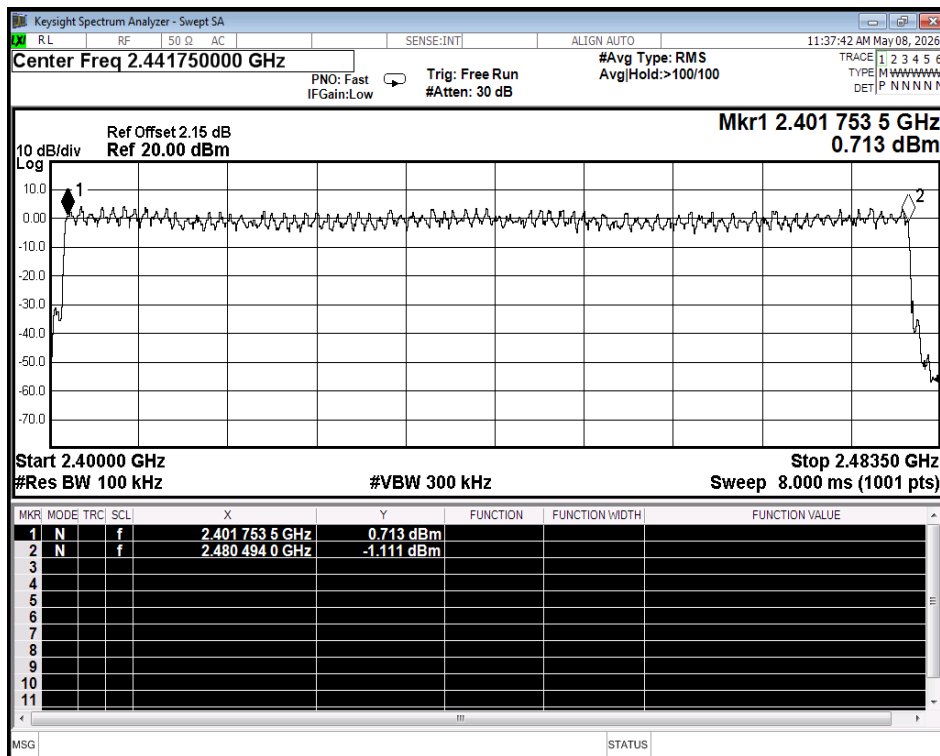
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1

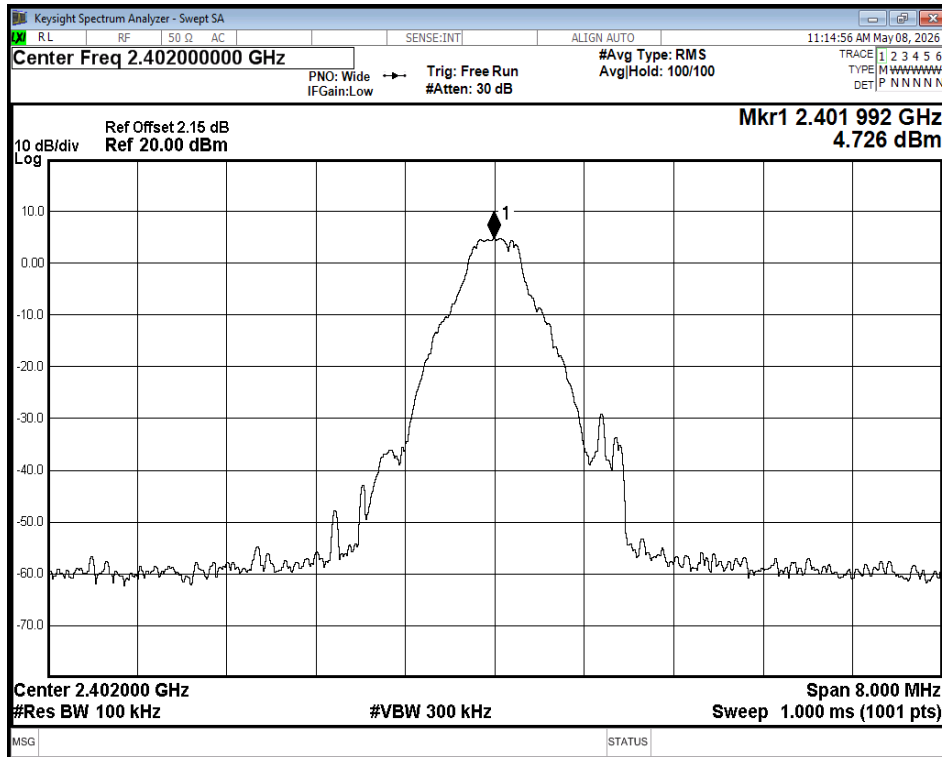


Hopping No. NVNT 3-DH5 2402MHz Ant1

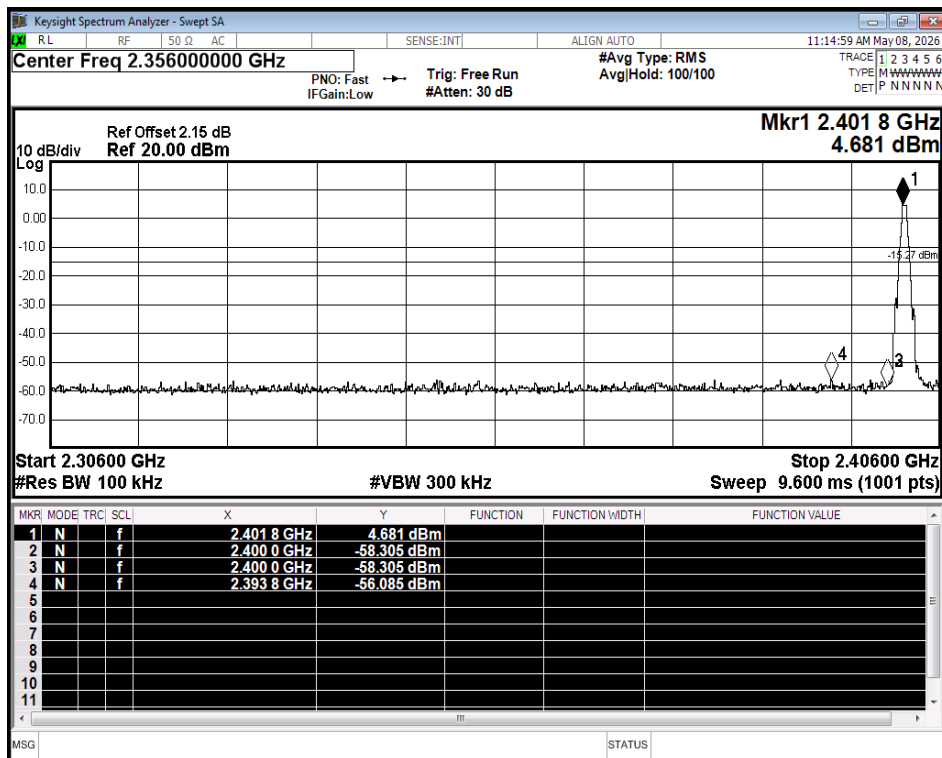


6 Band Edge

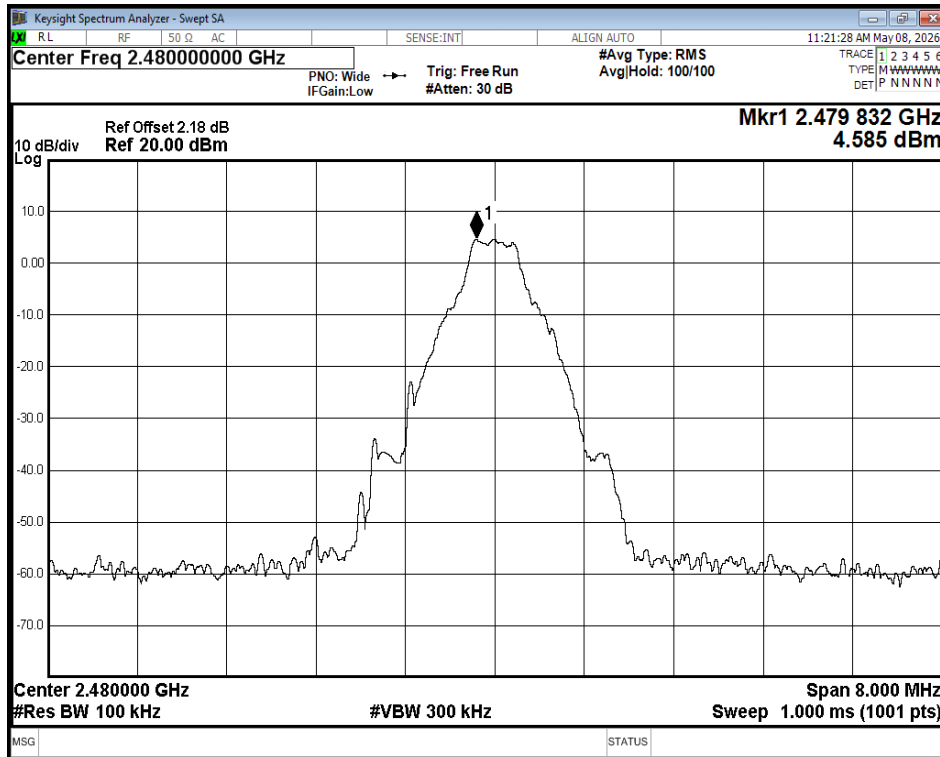
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-60.81	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-61.47	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-48.99	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-59.76	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-48.79	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-58.54	-20	Pass



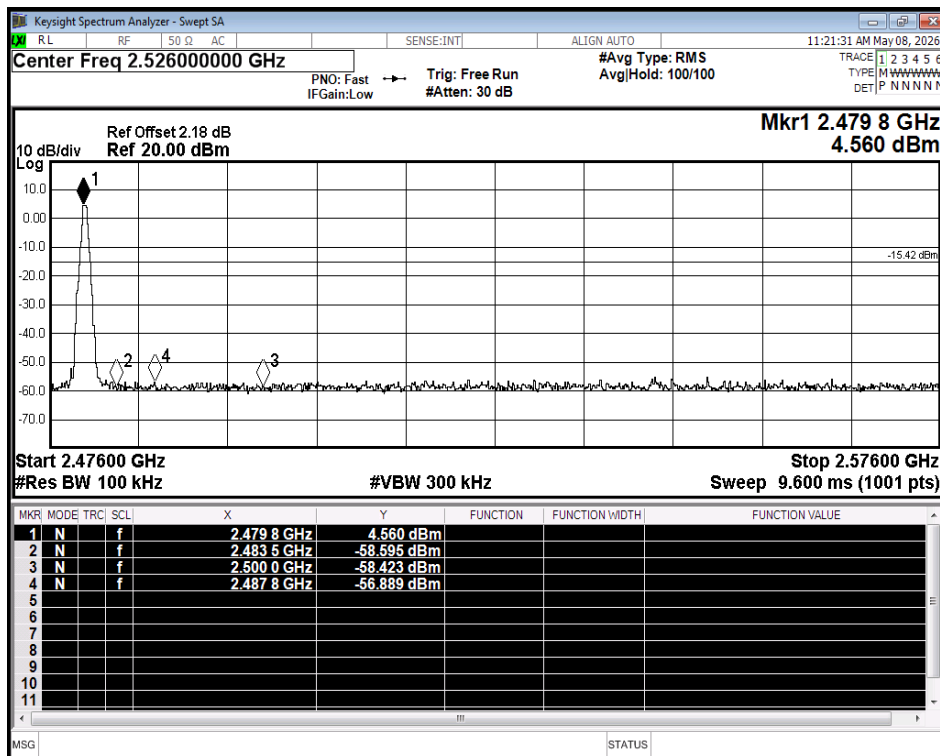
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



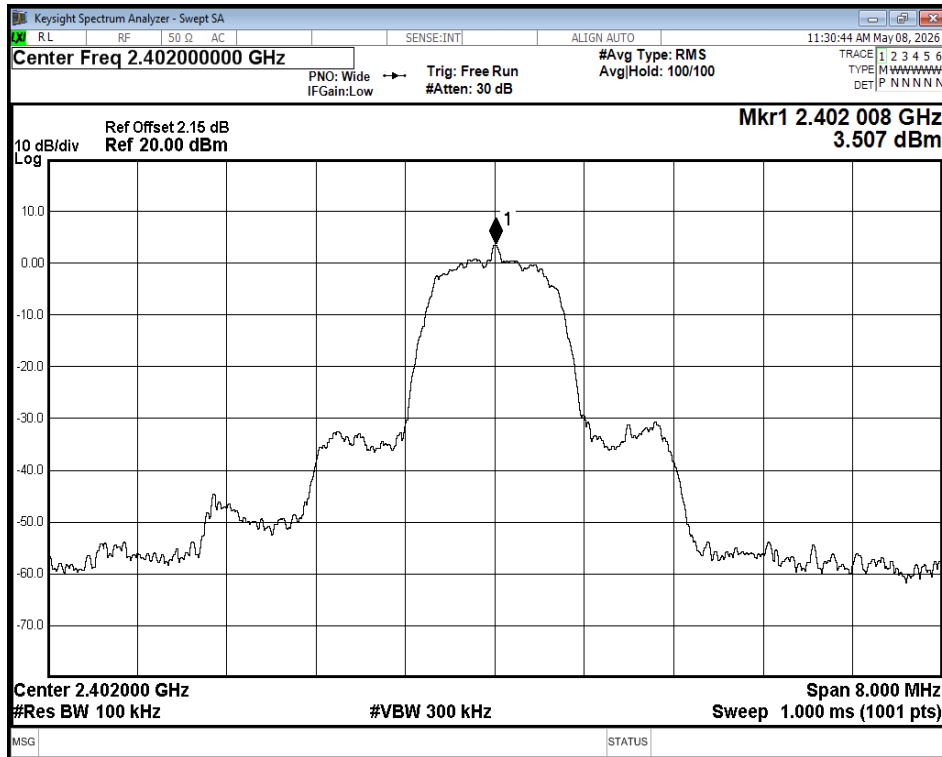
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



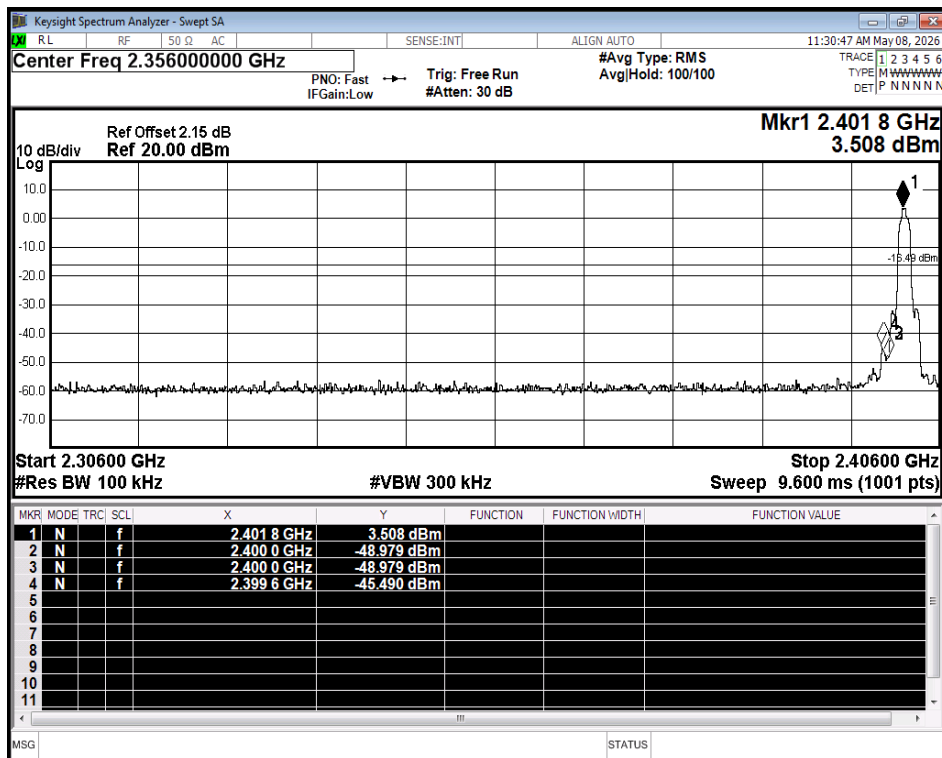
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



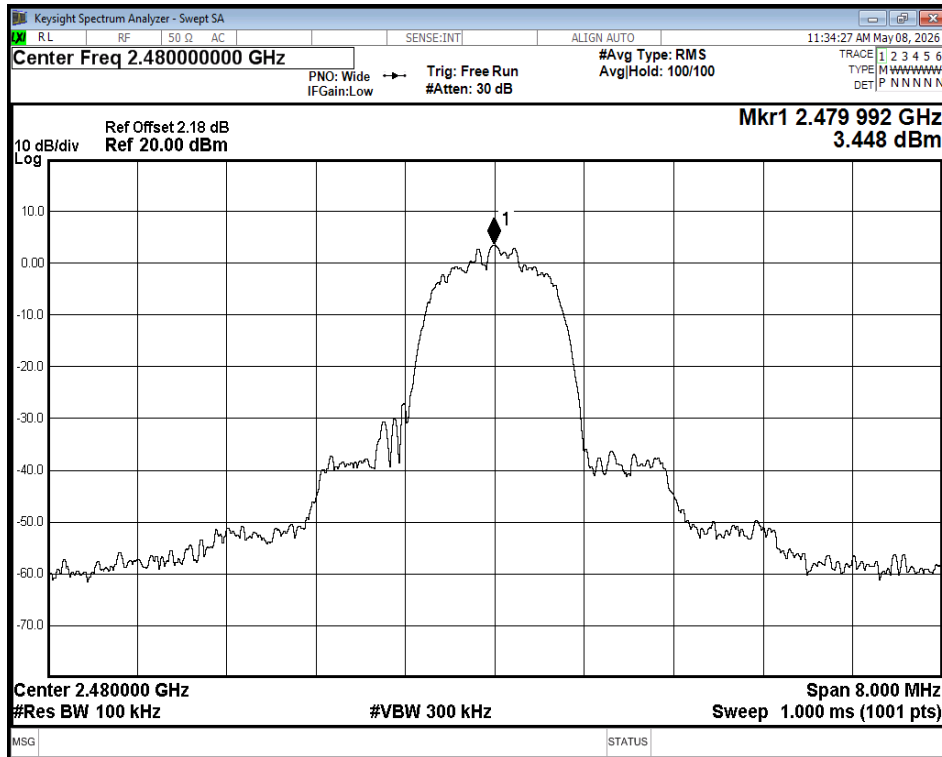
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



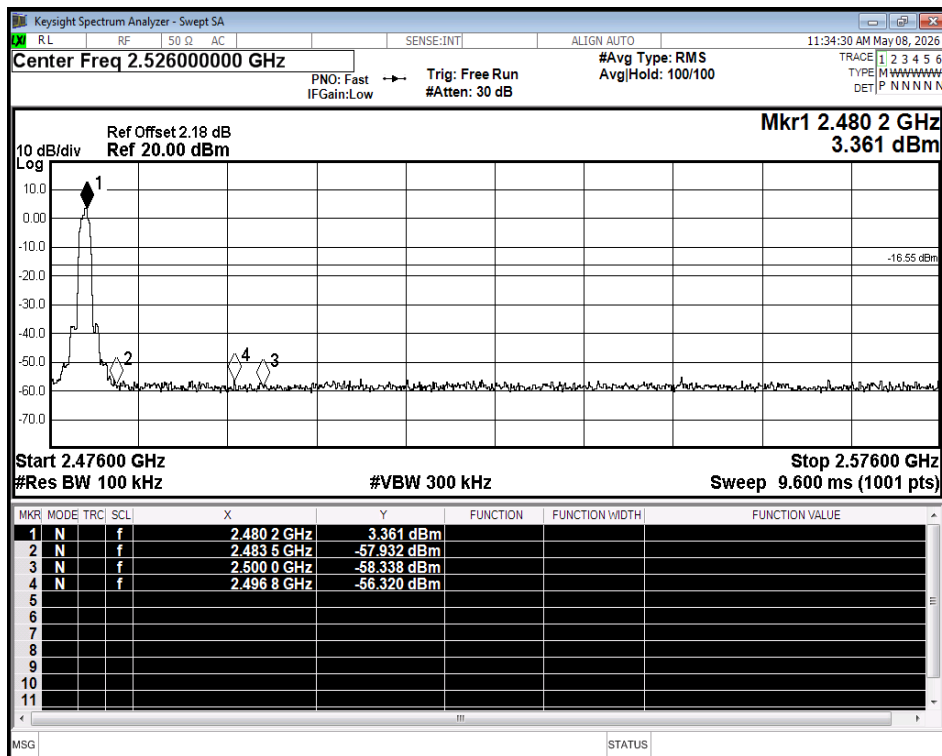
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



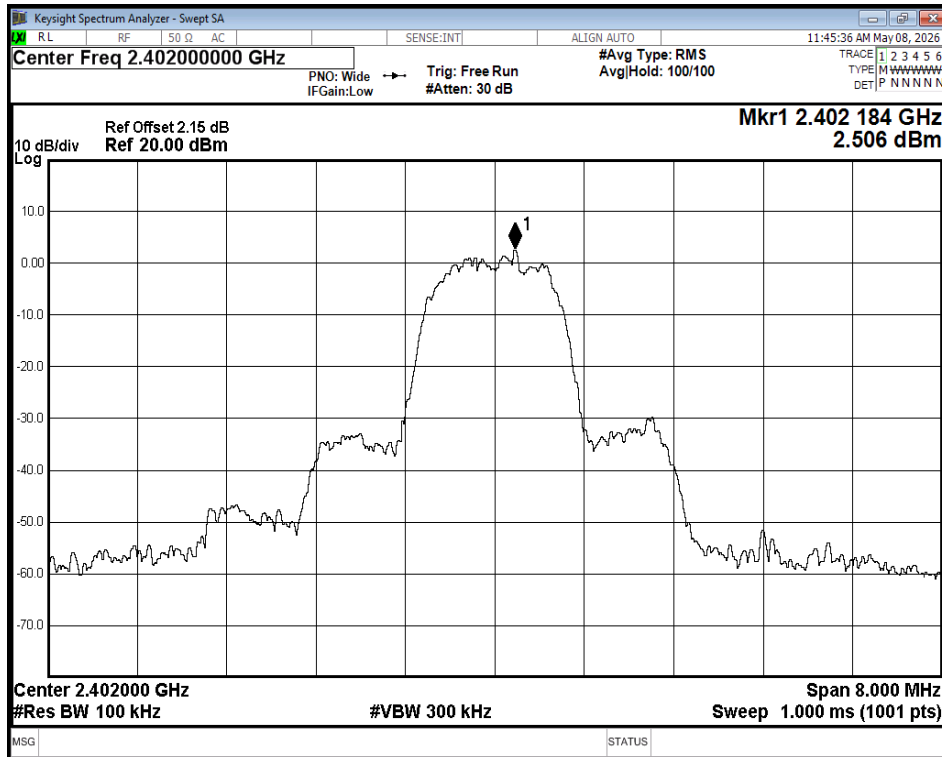
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



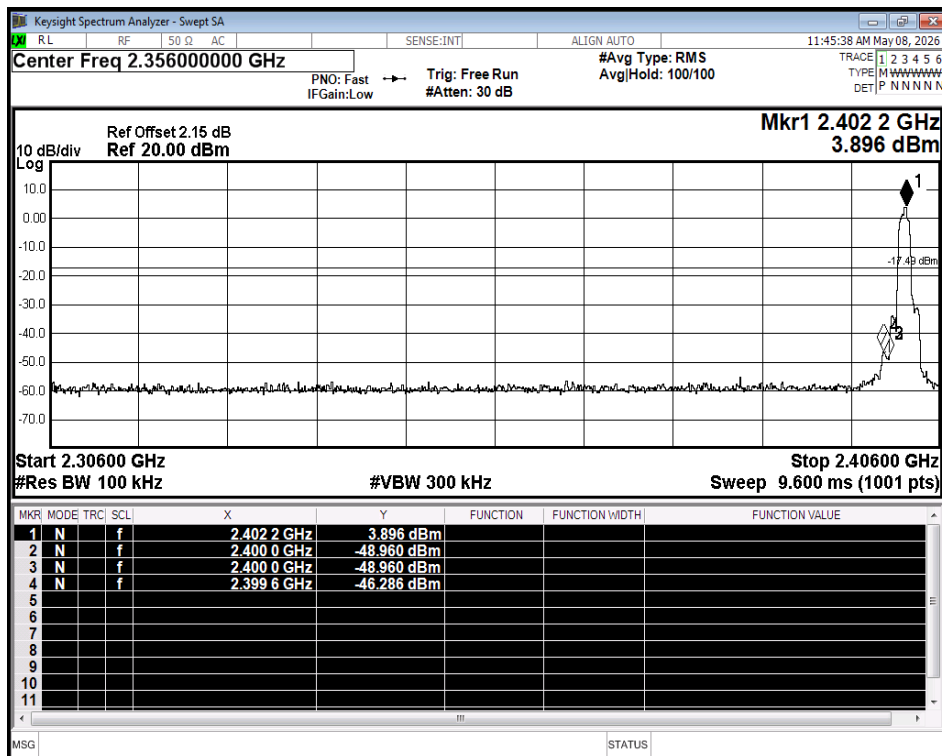
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



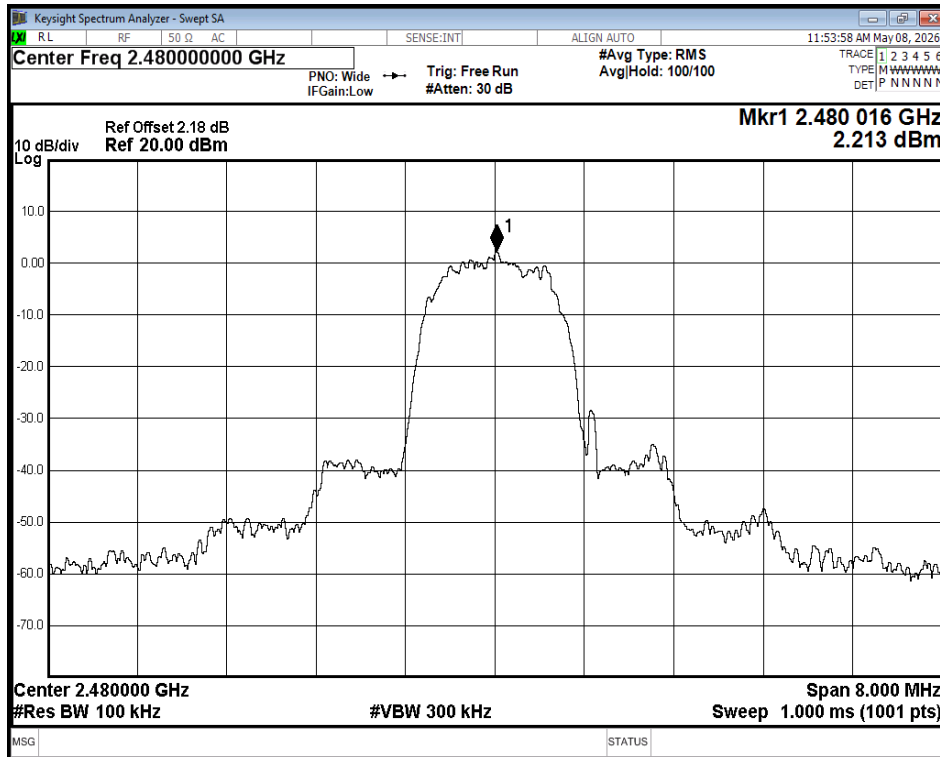
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



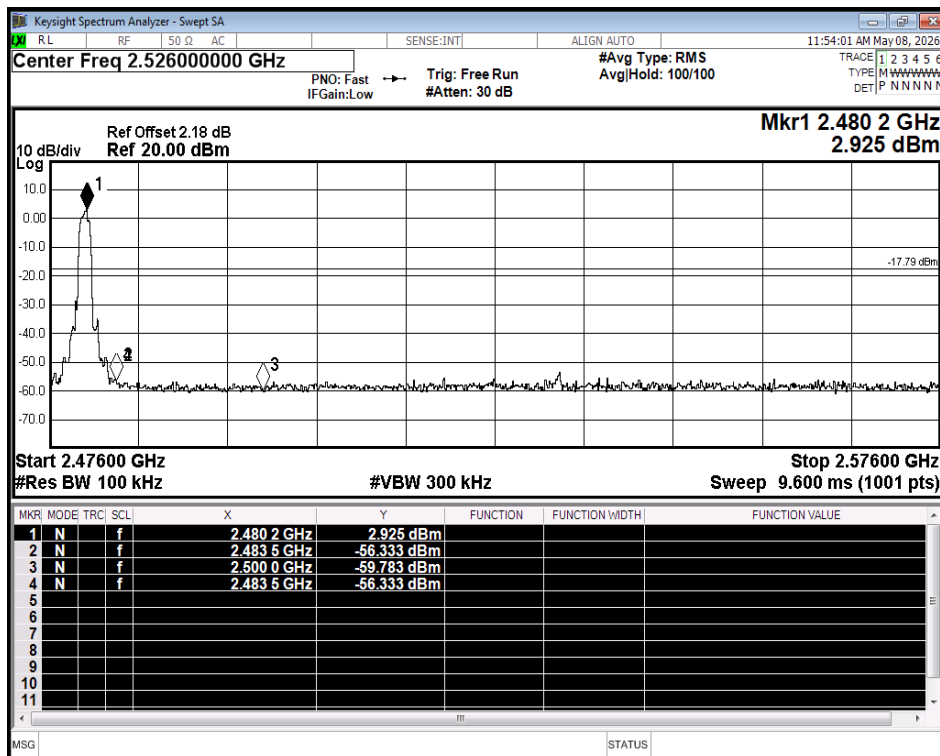
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission



Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref

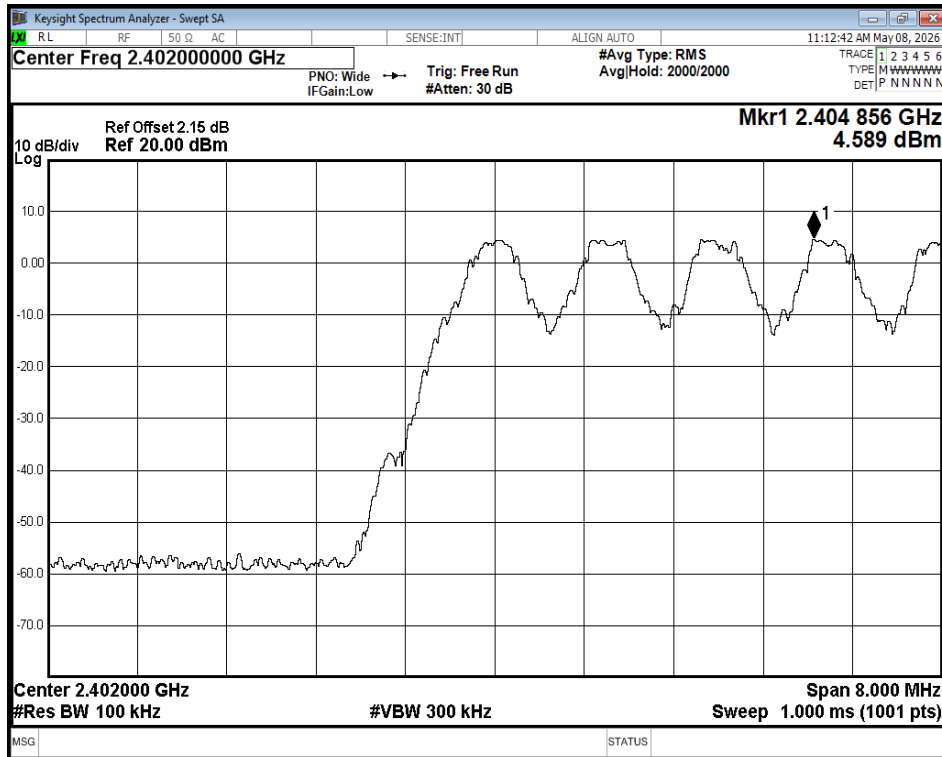


Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission

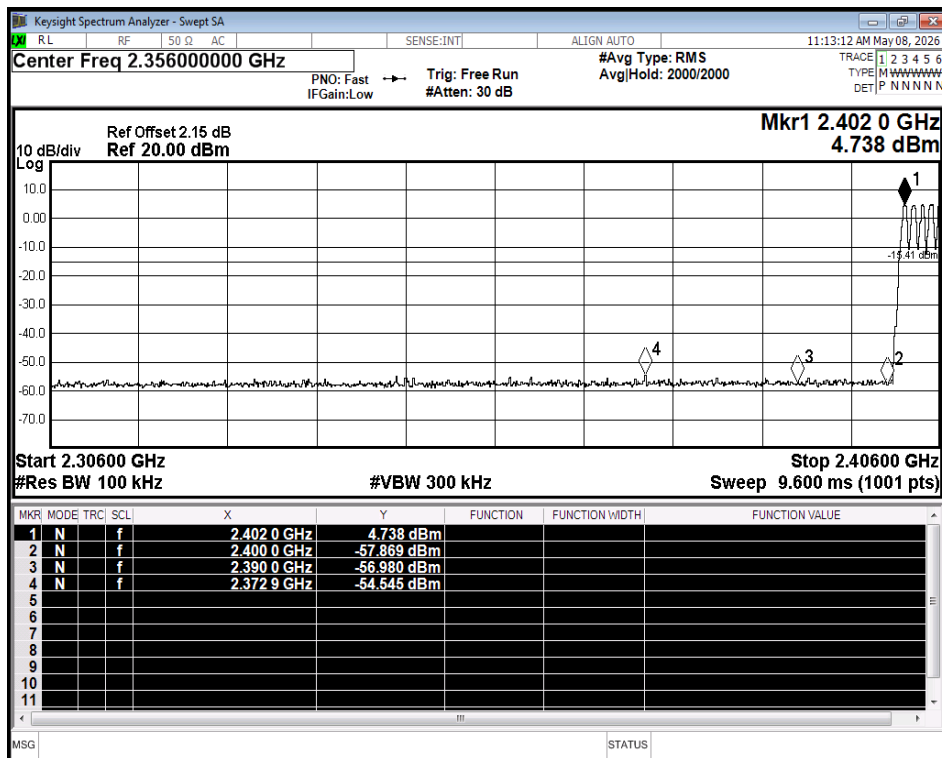


(Hopping)

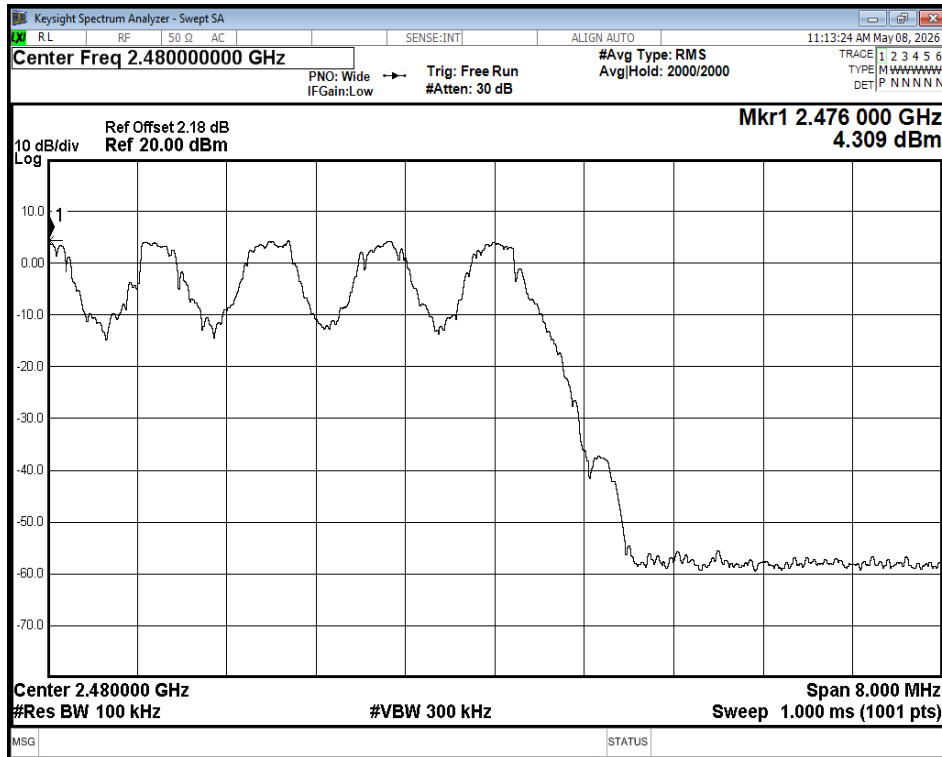
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-59.13	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-59.83	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-56.72	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-58.06	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-58.75	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-58.25	-20	Pass



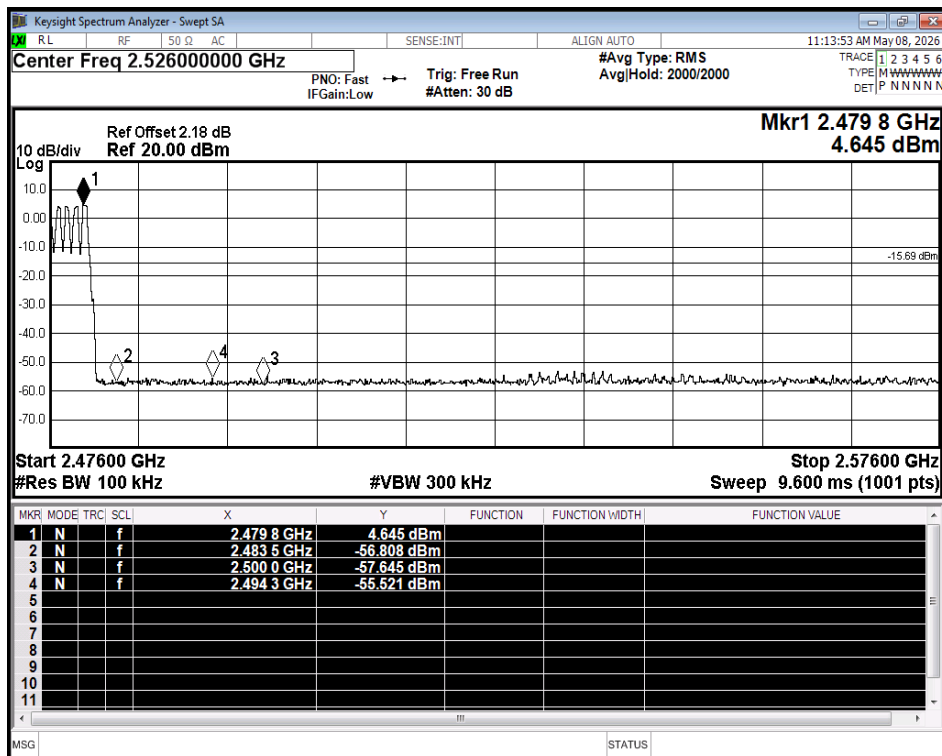
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



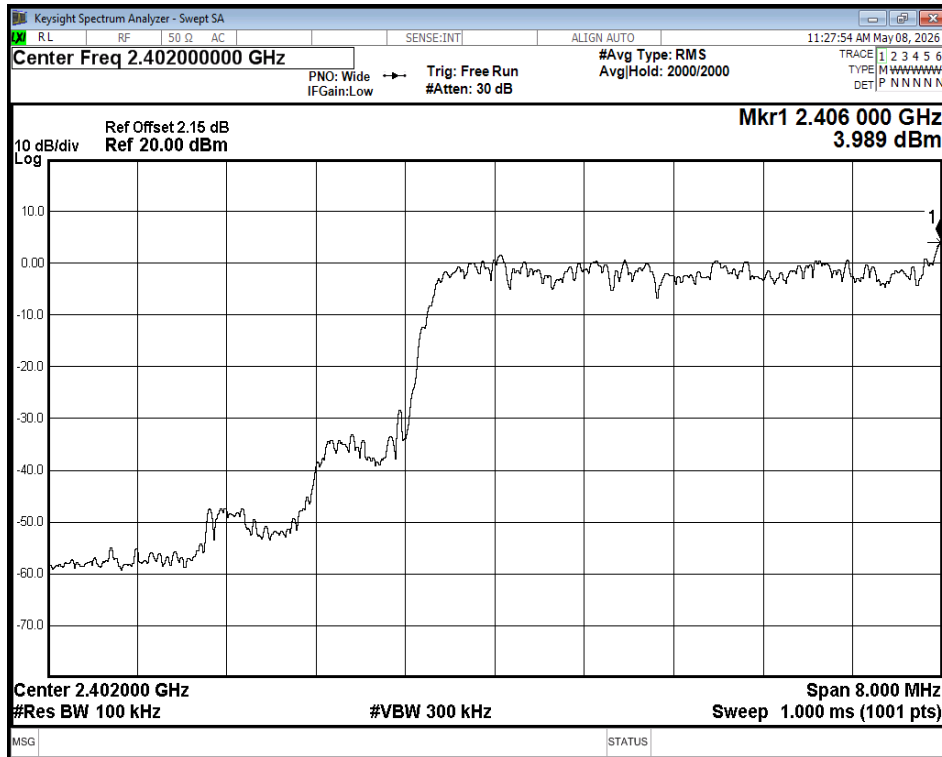
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



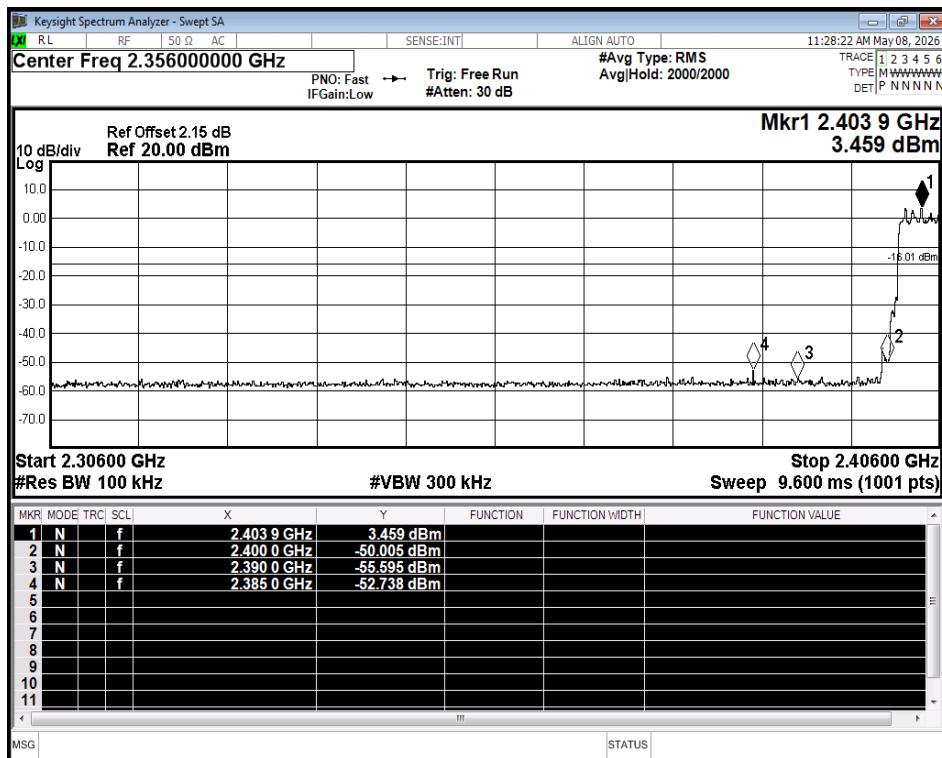
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



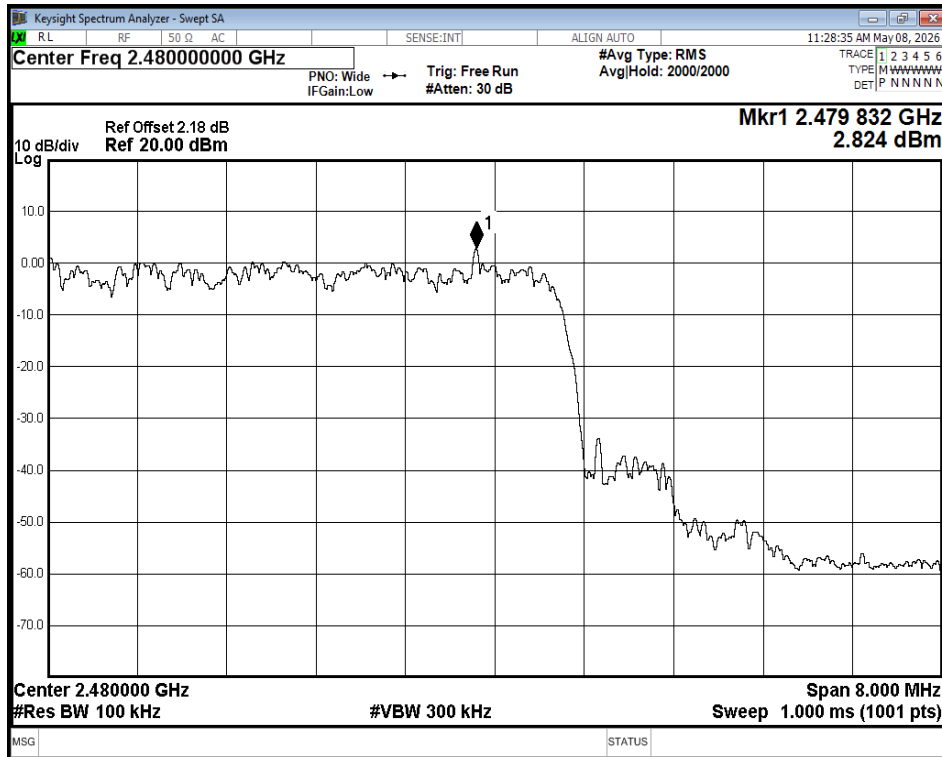
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



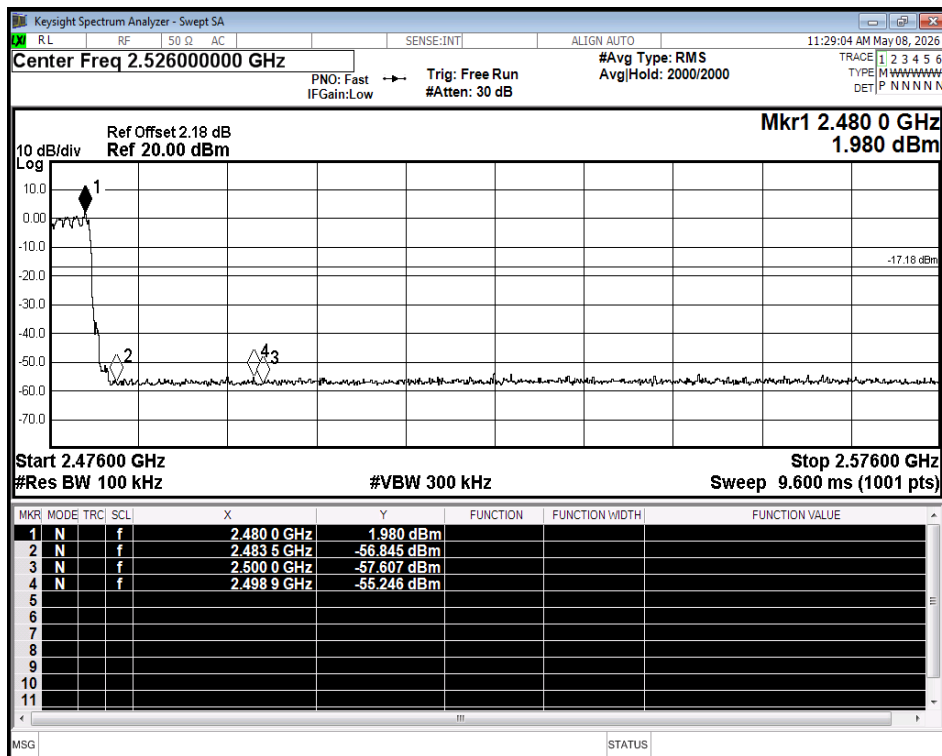
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



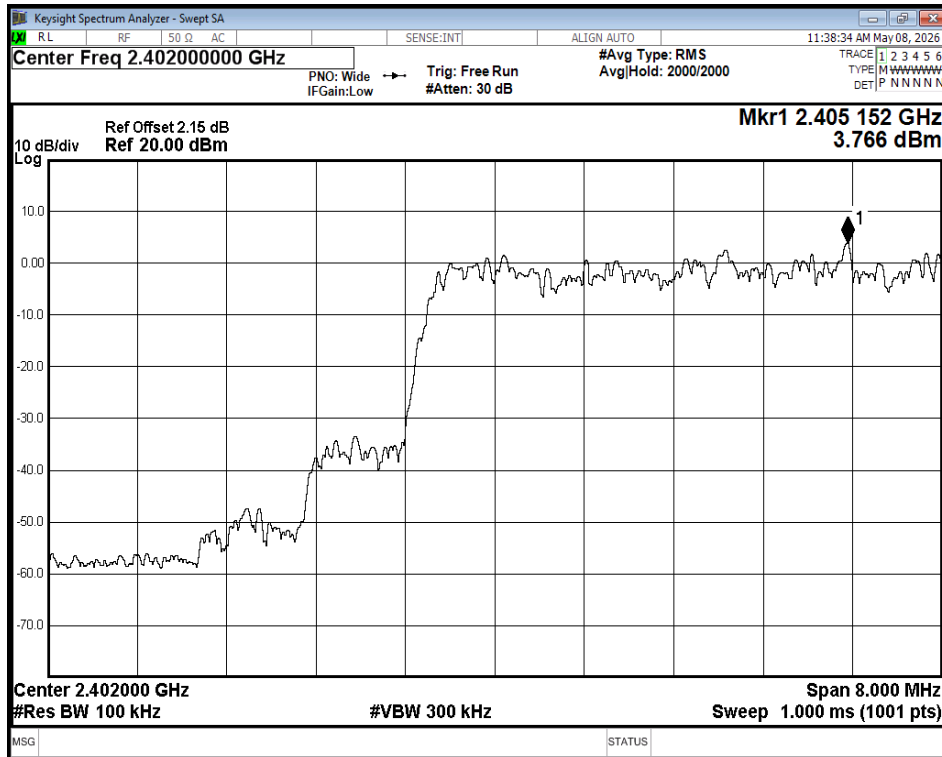
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



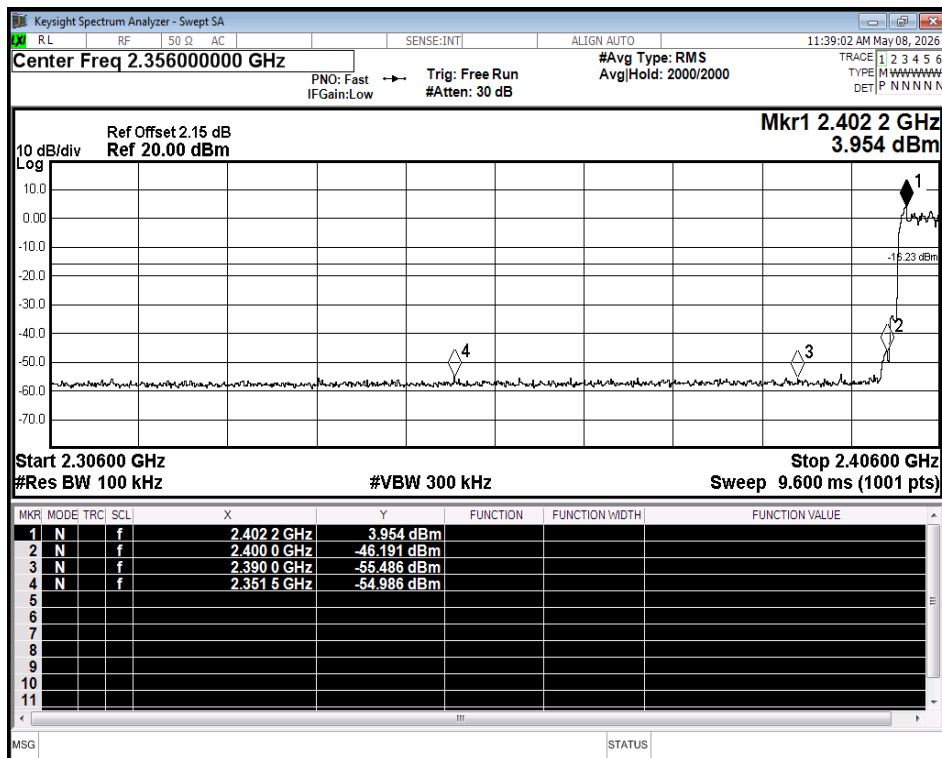
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



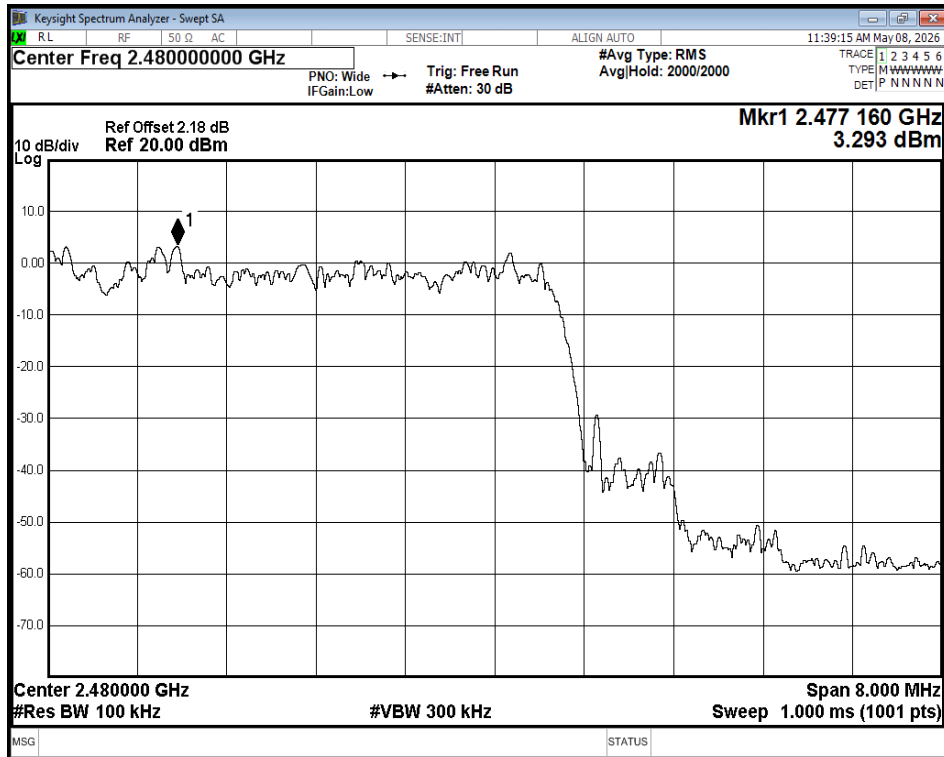
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



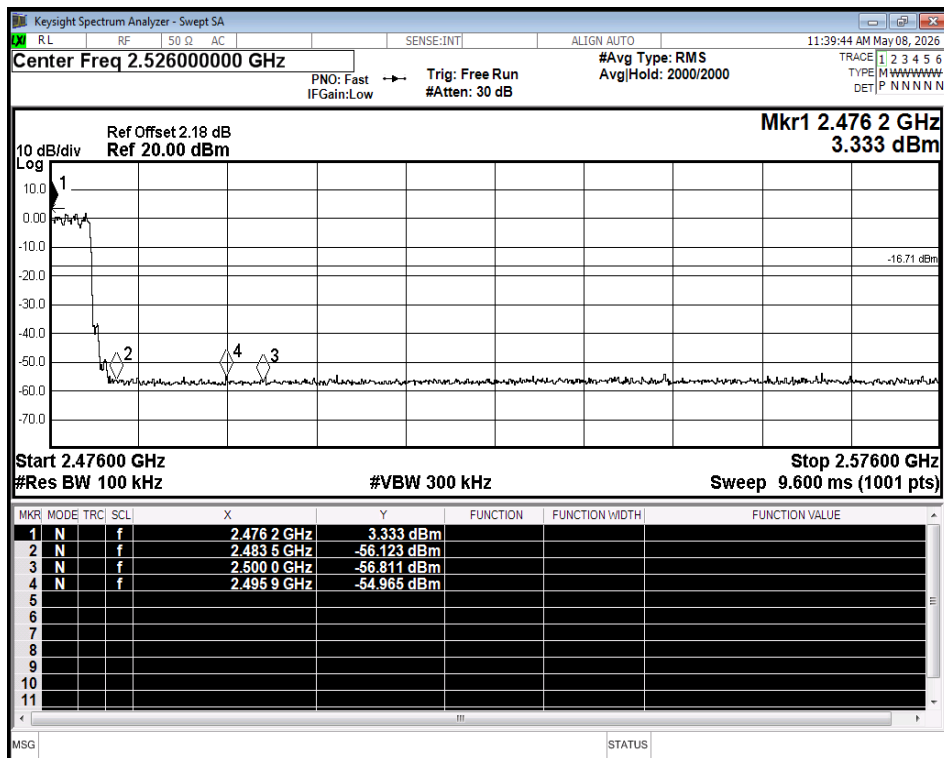
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref

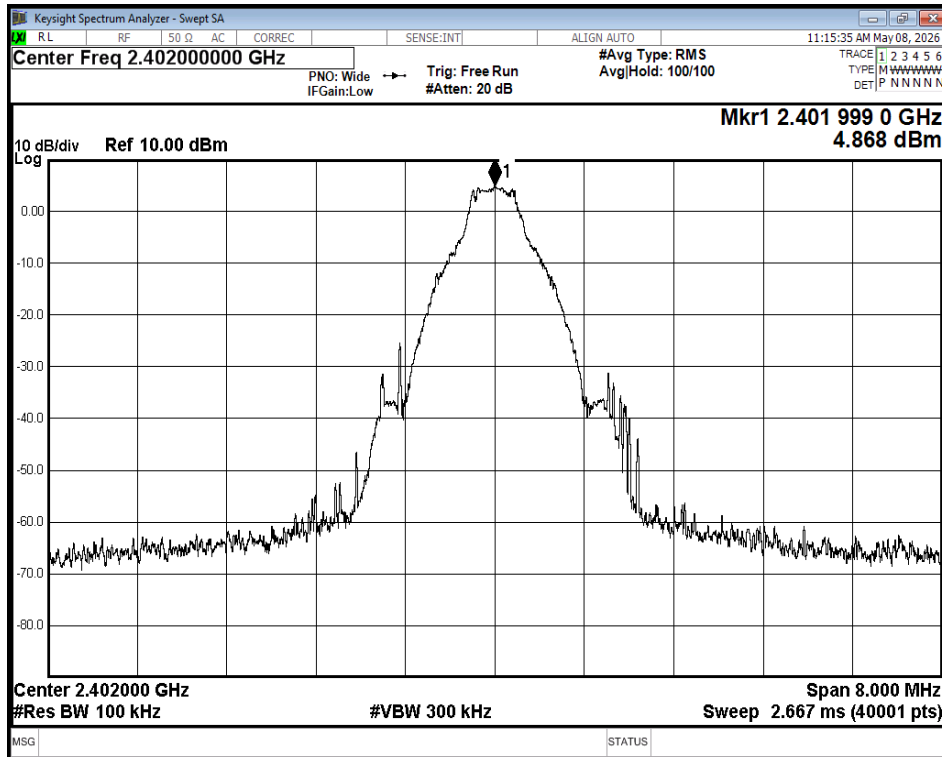


Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission

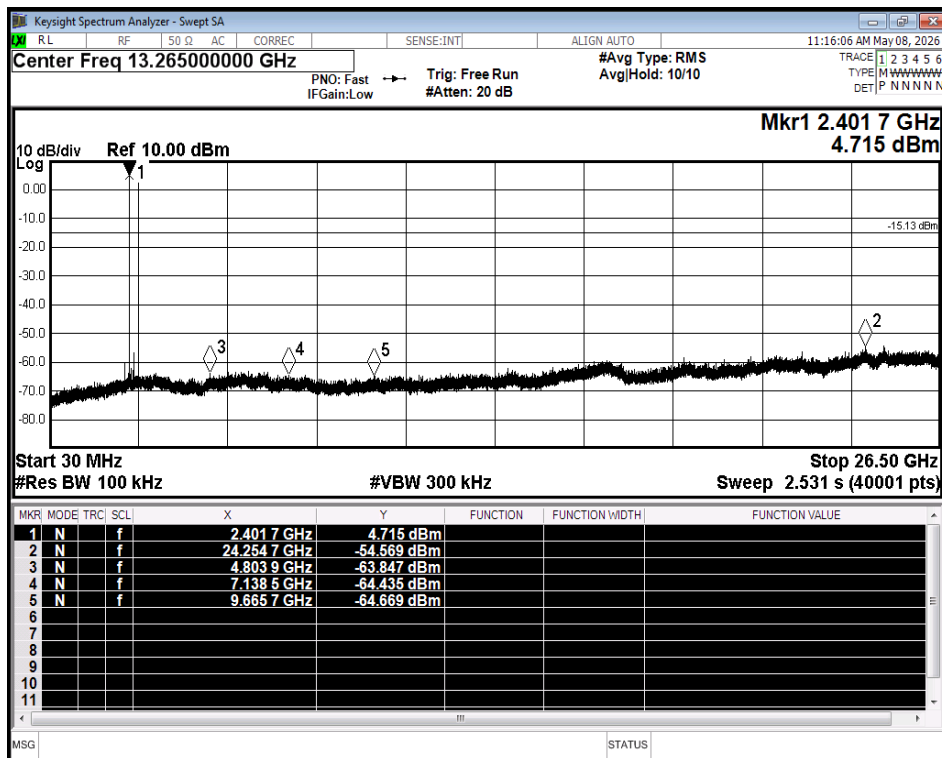


7 Conducted RF Spurious Emission

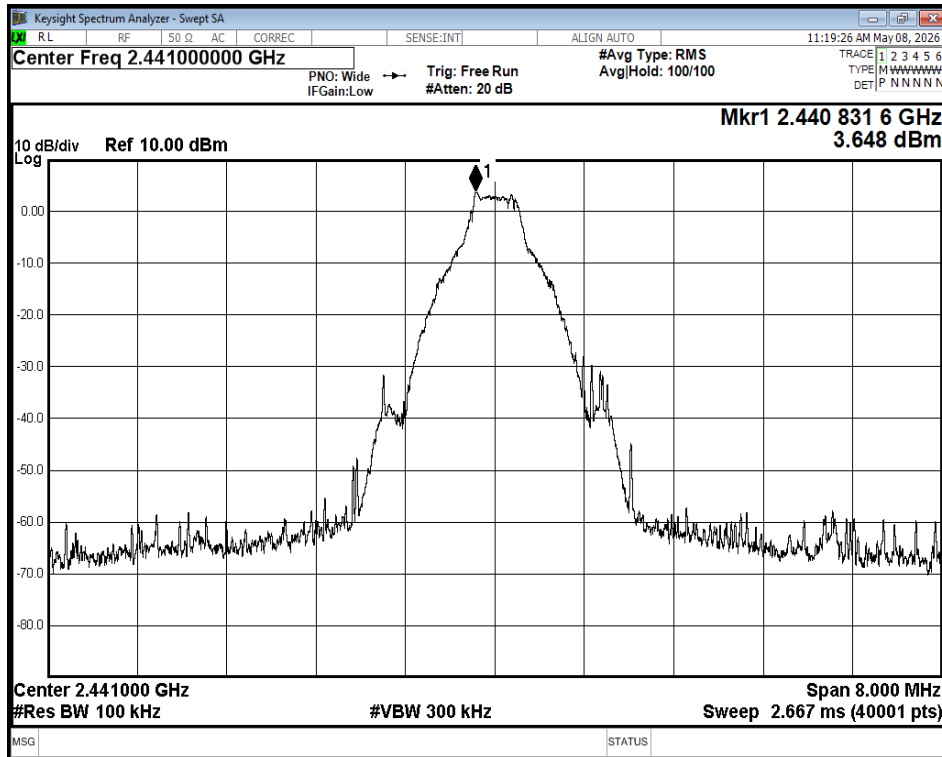
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-59.43	-20	Pass
NVNT	1-DH5	2441	Ant1	-59.09	-20	Pass
NVNT	1-DH5	2480	Ant1	-59.48	-20	Pass
NVNT	2-DH5	2402	Ant1	-57.95	-20	Pass
NVNT	2-DH5	2441	Ant1	-58.35	-20	Pass
NVNT	2-DH5	2480	Ant1	-57.73	-20	Pass
NVNT	3-DH5	2402	Ant1	-58.22	-20	Pass
NVNT	3-DH5	2441	Ant1	-57.93	-20	Pass
NVNT	3-DH5	2480	Ant1	-57.97	-20	Pass



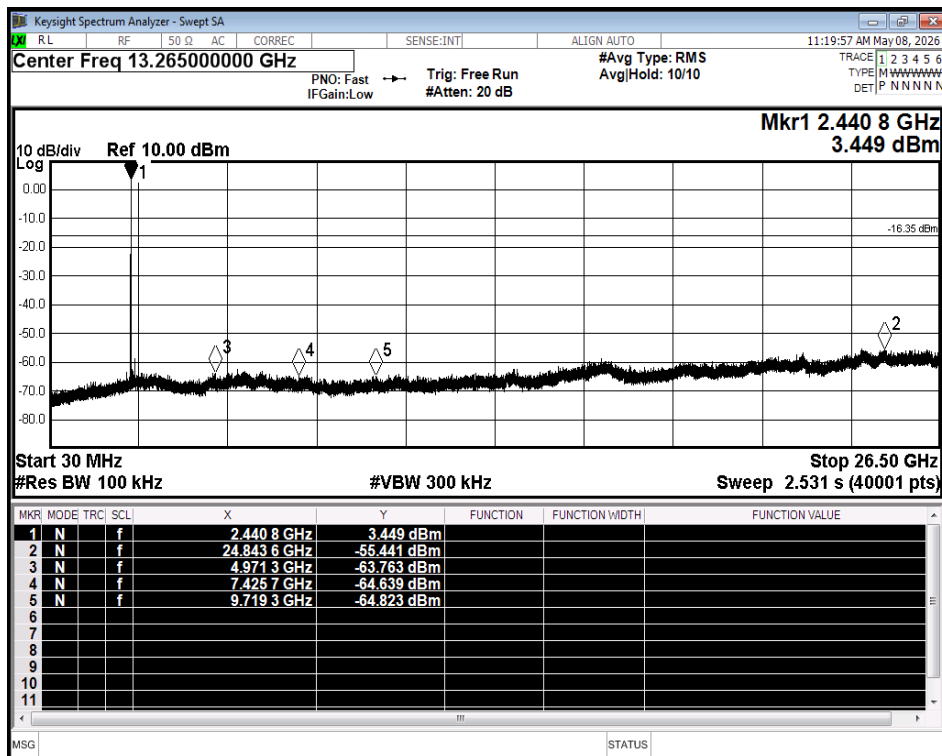
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



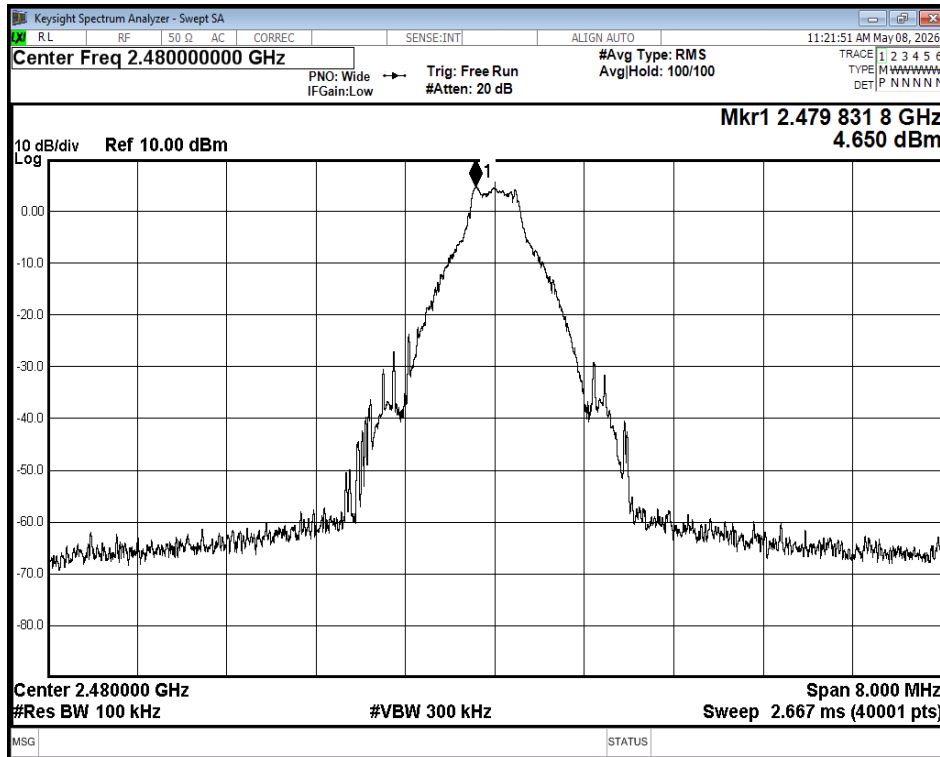
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



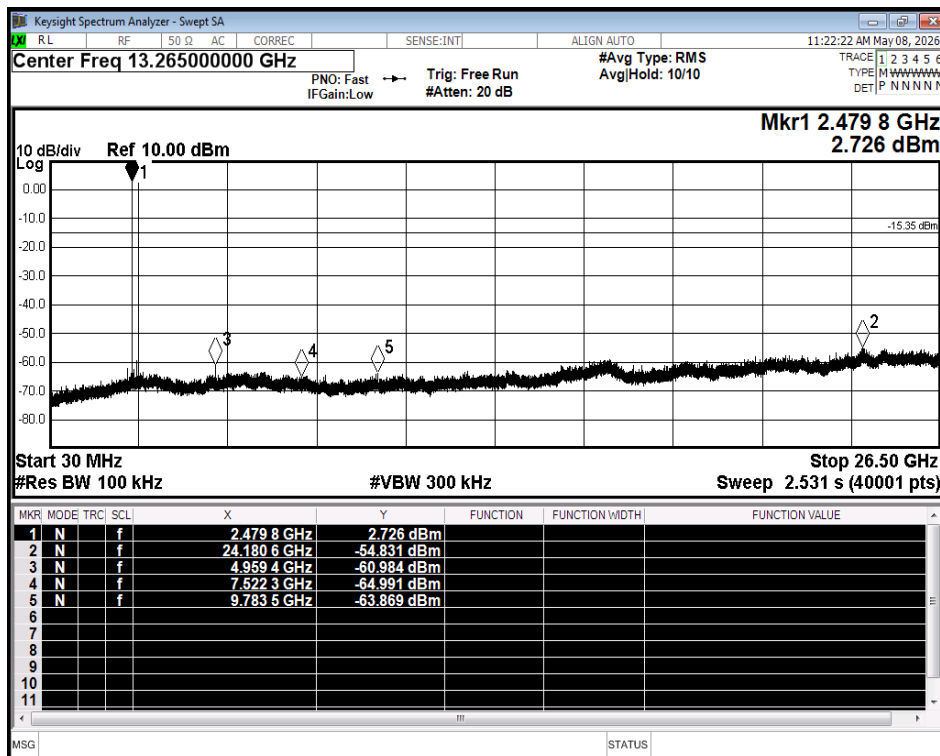
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



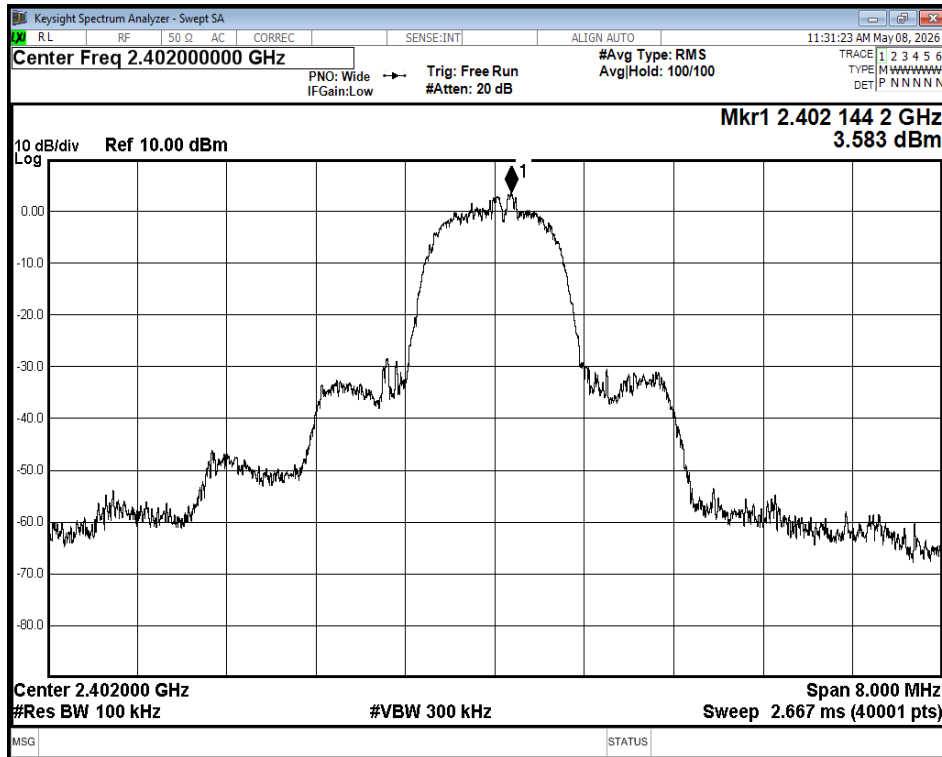
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



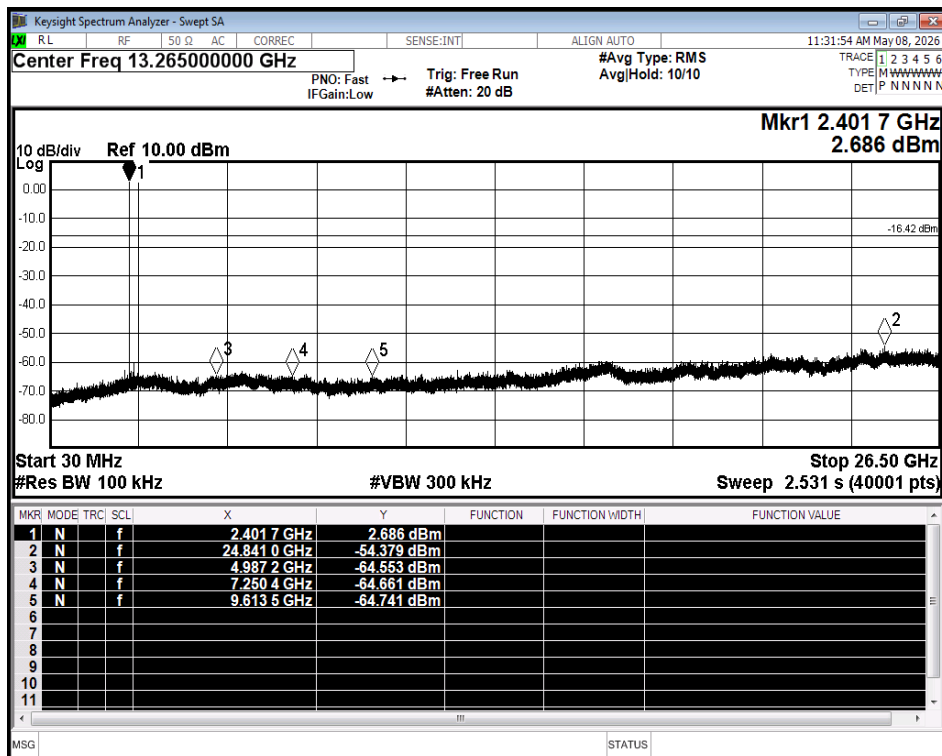
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



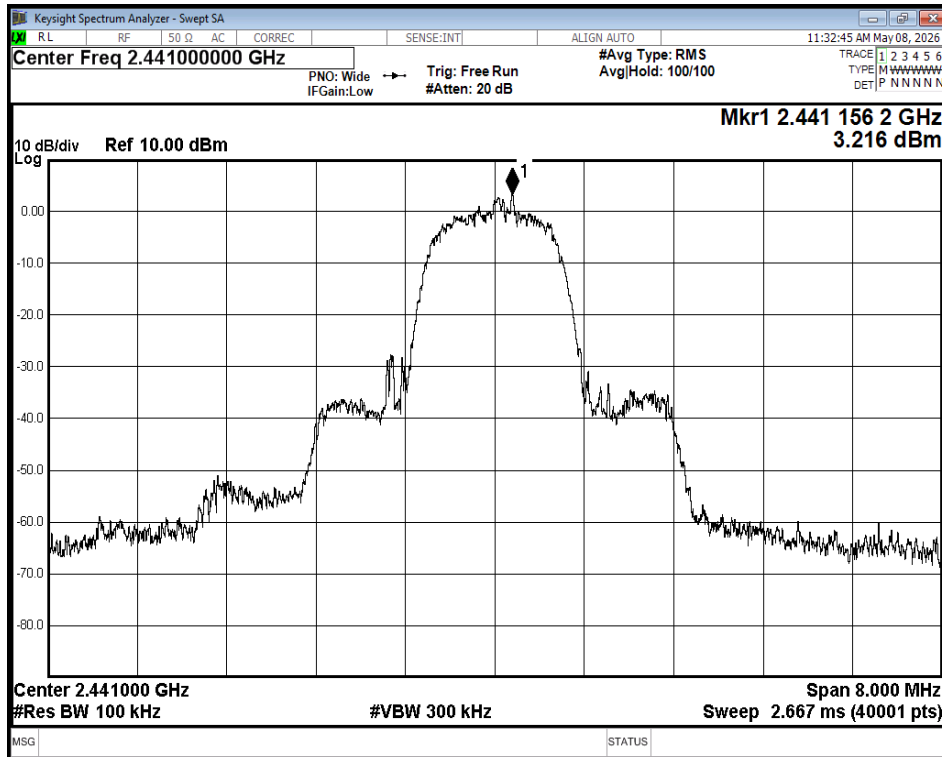
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



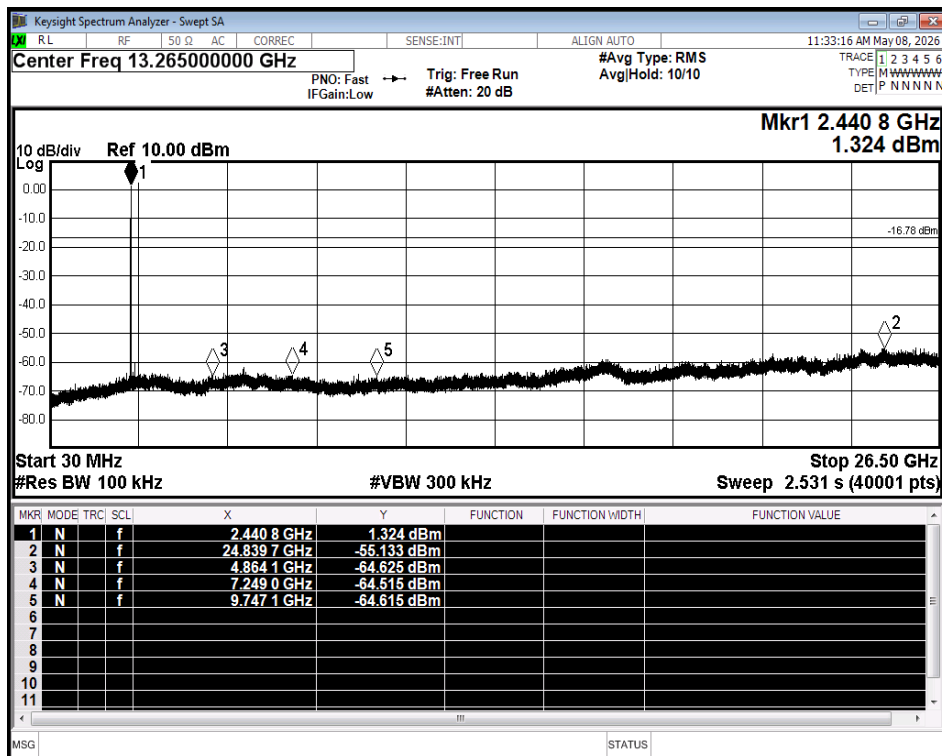
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



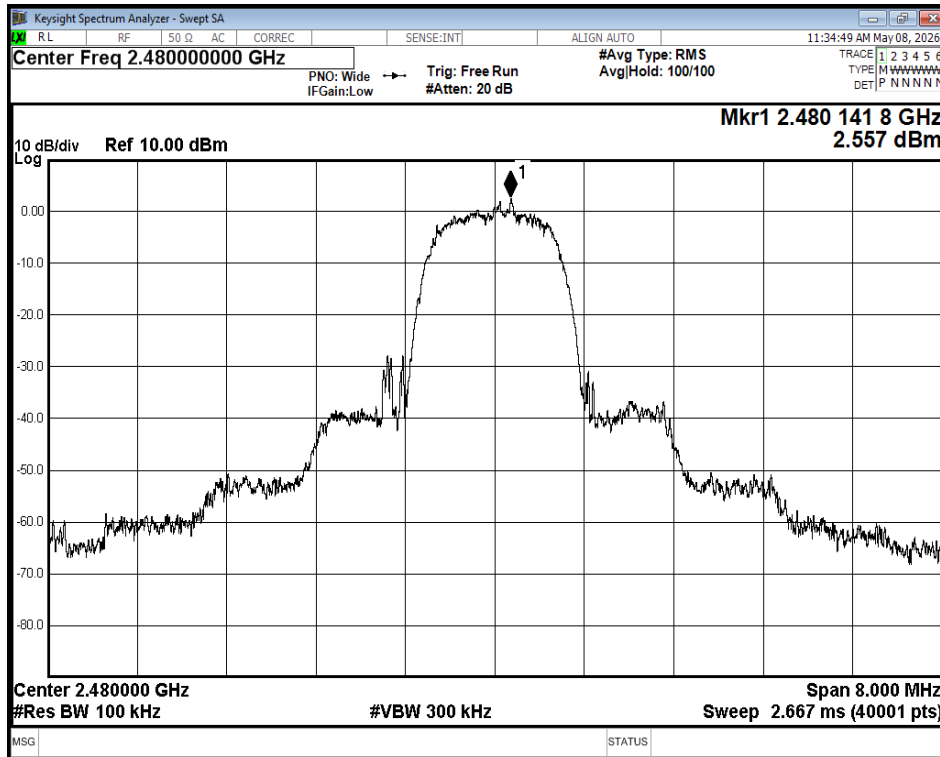
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



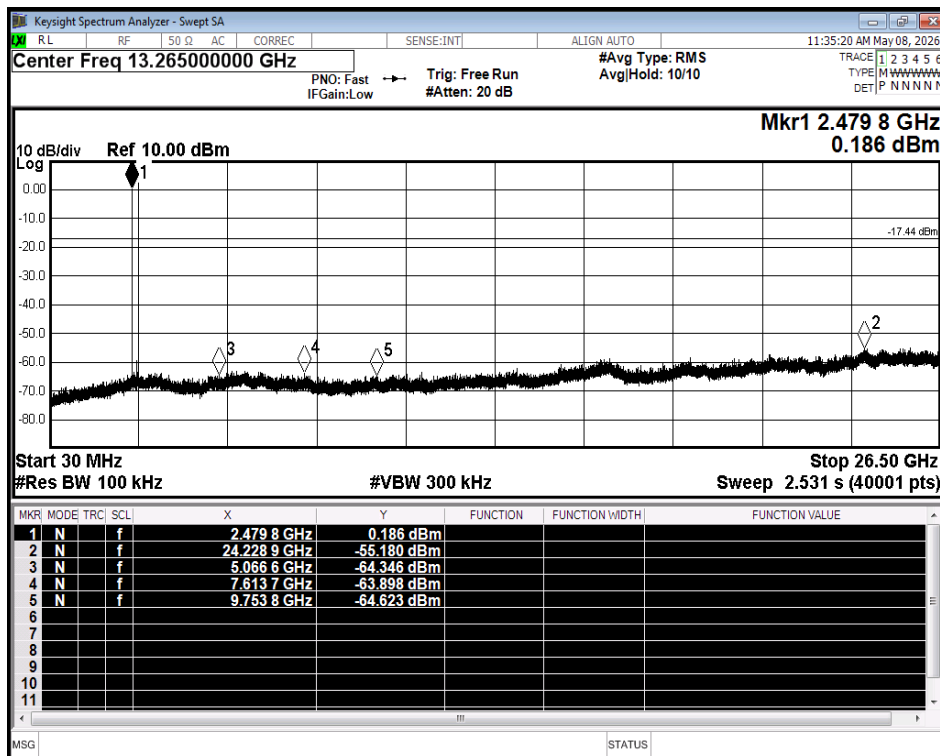
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



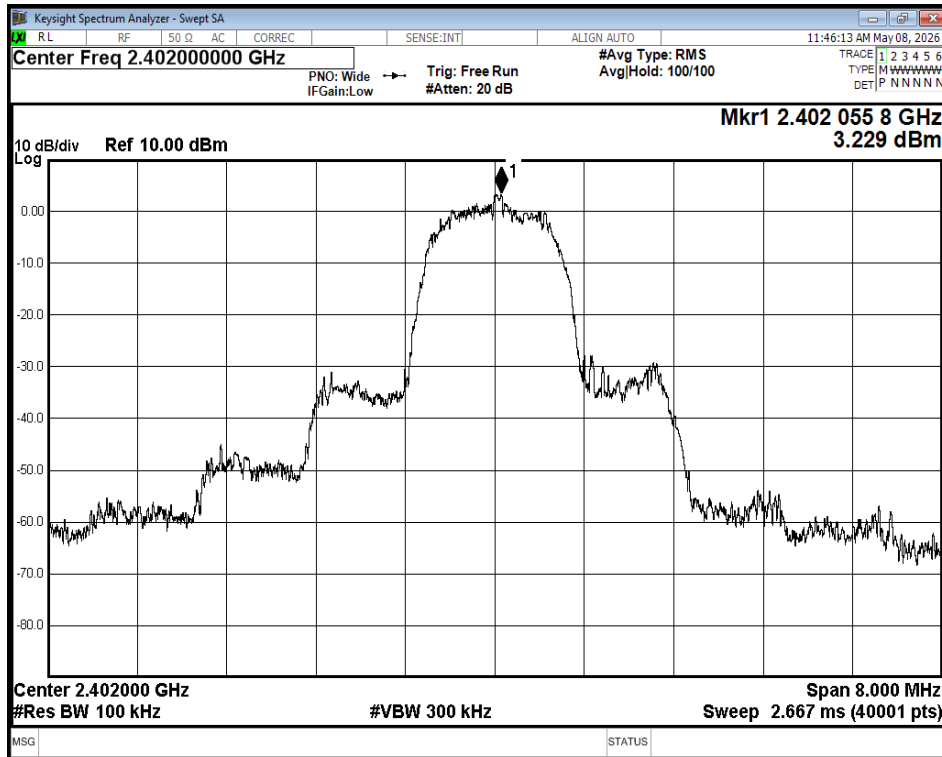
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



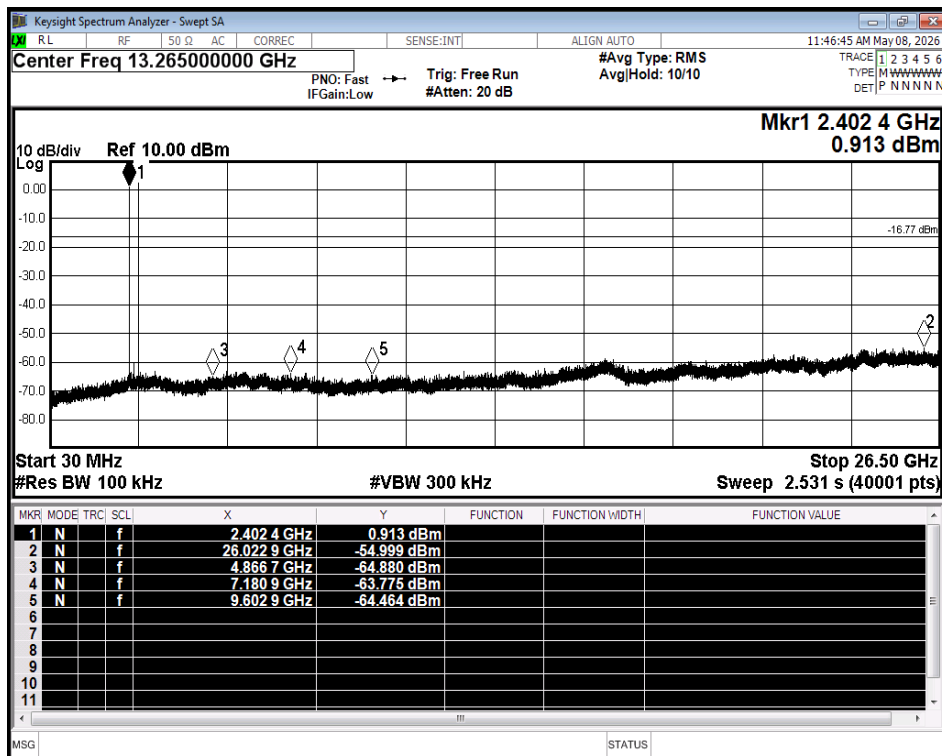
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



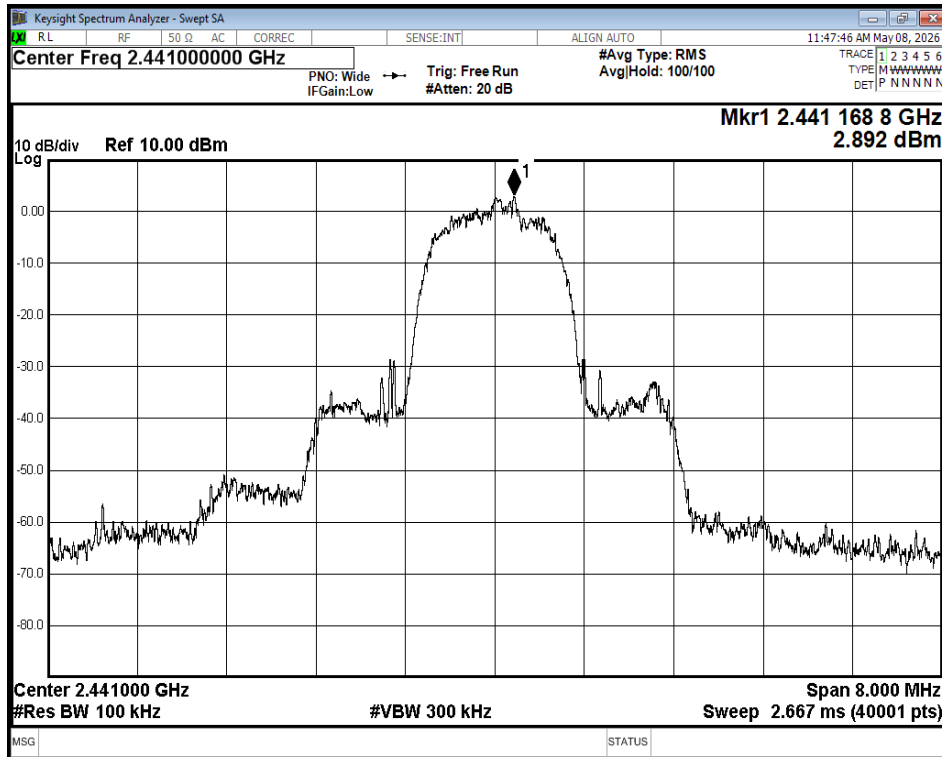
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



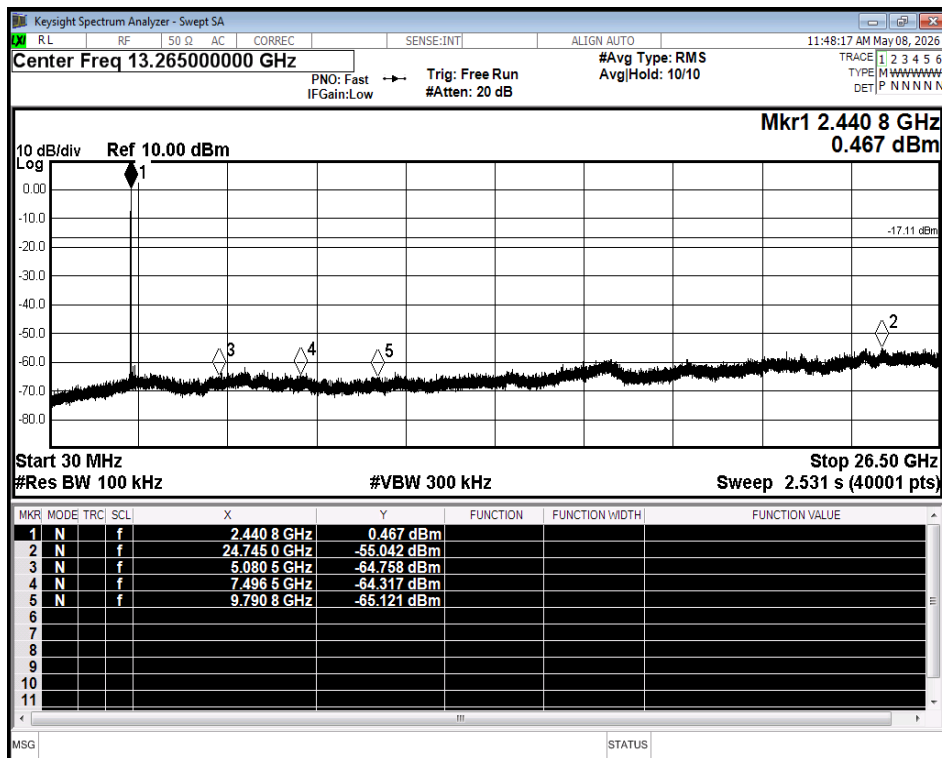
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



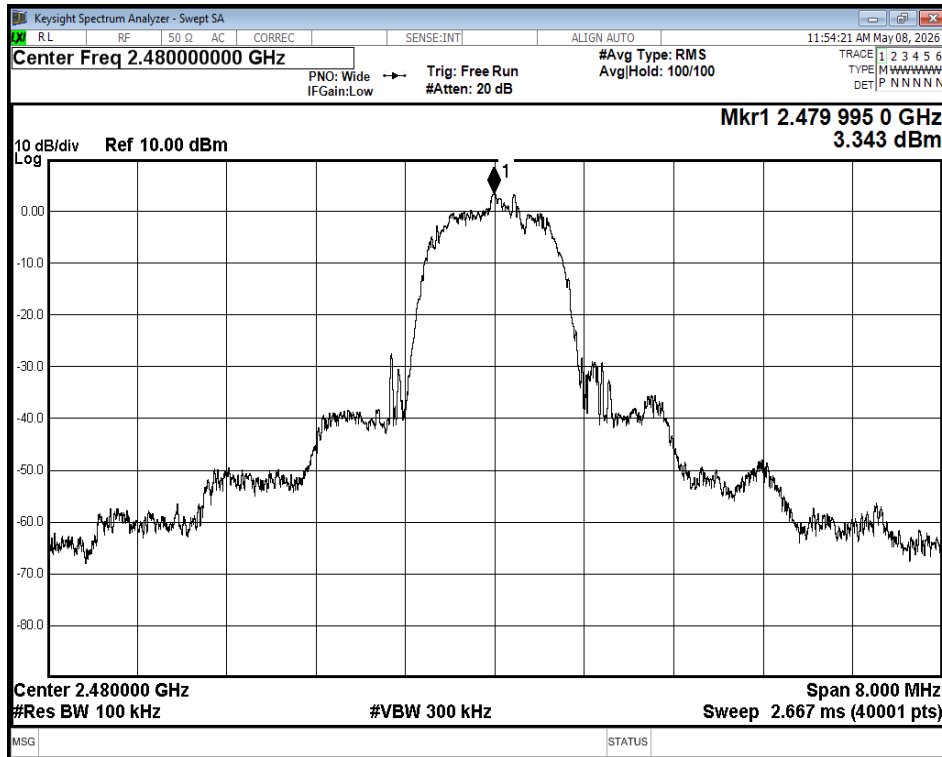
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



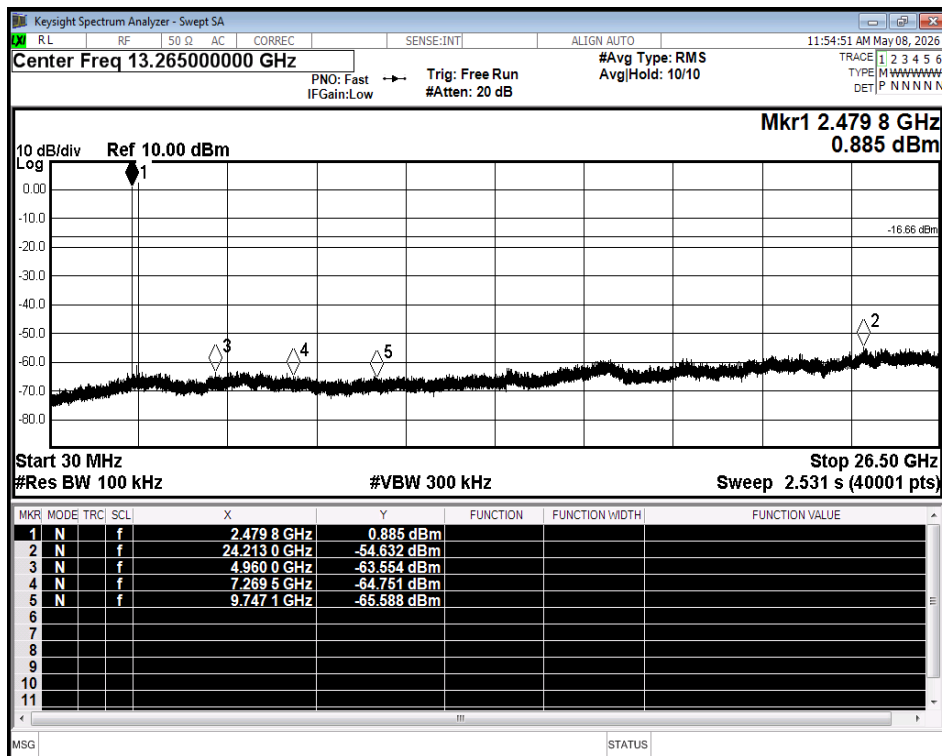
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



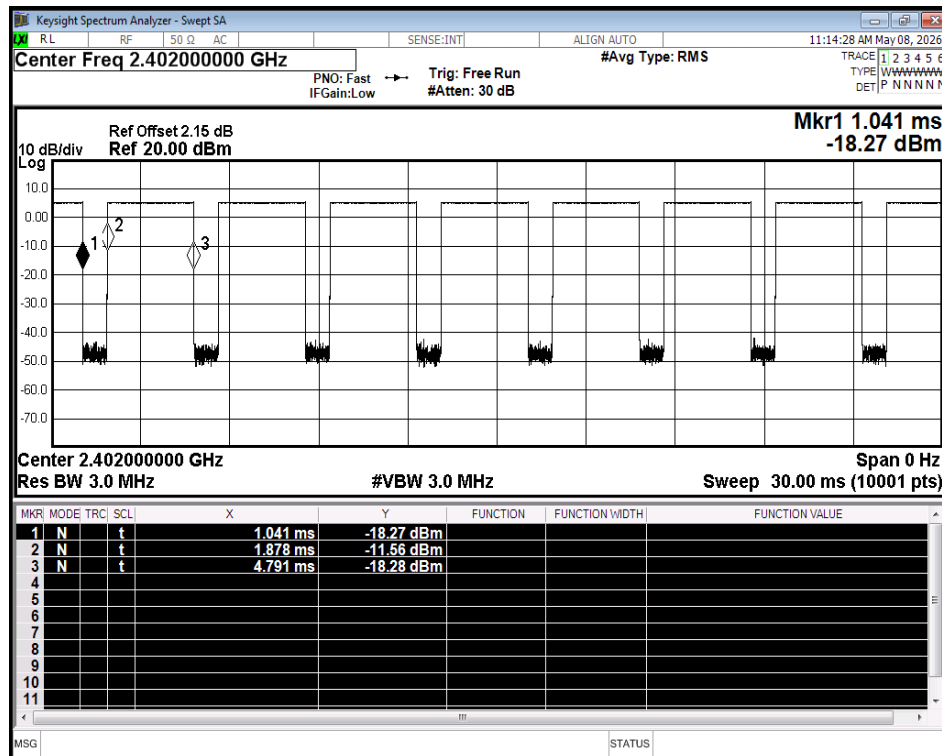
Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



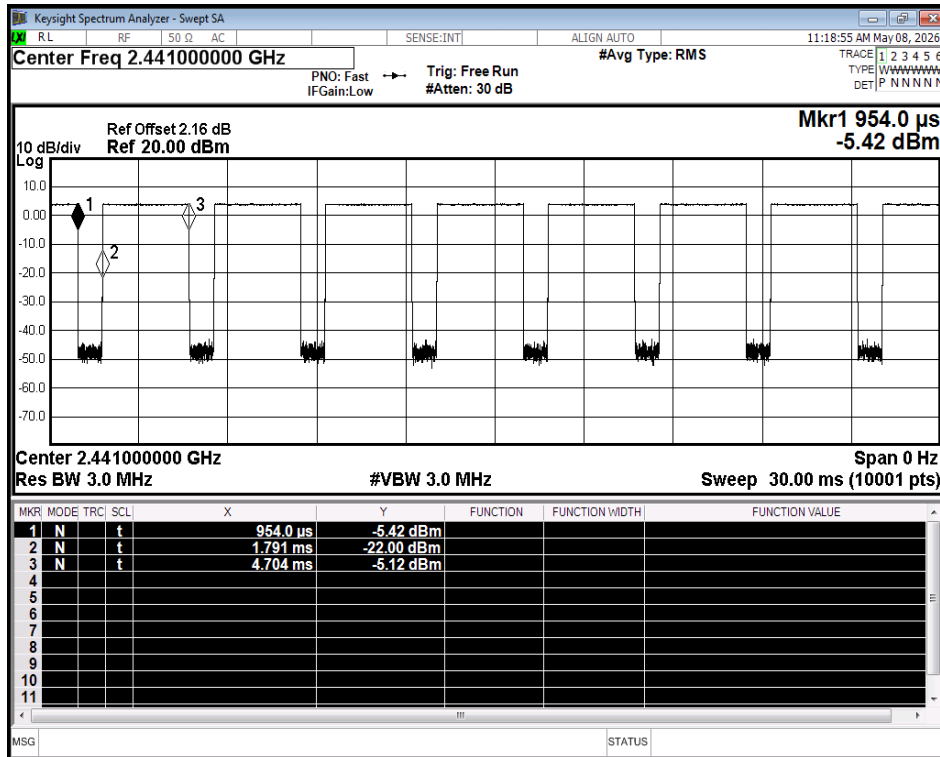
Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission

8 Duty Cycle

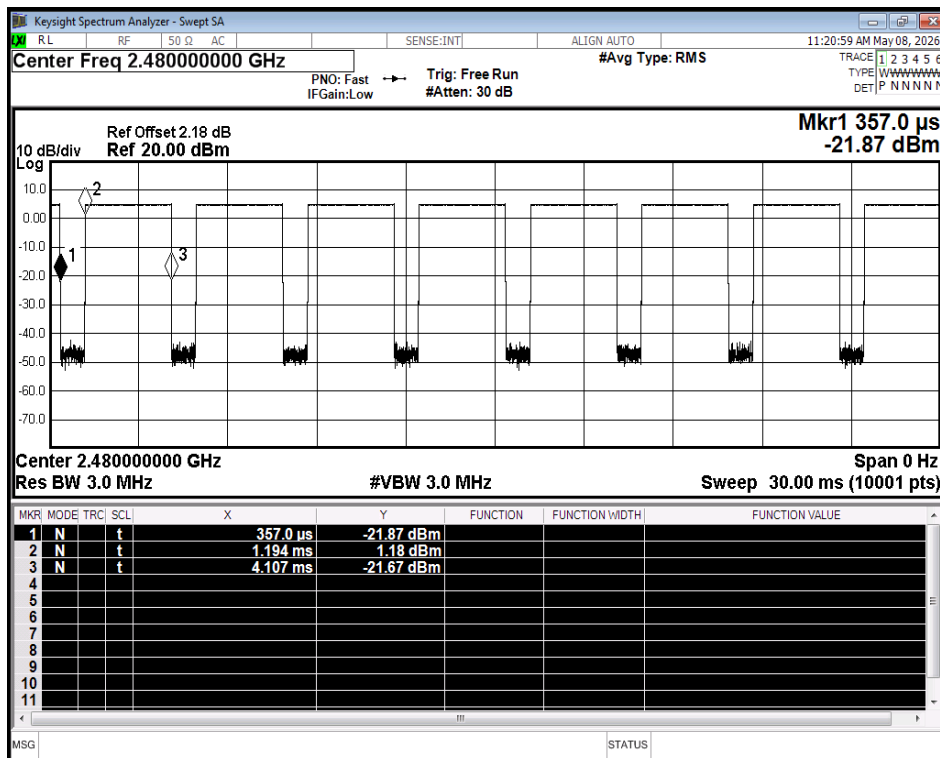
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	77.68	1.1	0.34
NVNT	1-DH5	2441	Ant1	77.68	1.1	0.34
NVNT	1-DH5	2480	Ant1	77.68	1.1	0.34
NVNT	2-DH5	2402	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2480	Ant1	77.36	1.11	0.34
NVNT	3-DH5	2402	Ant1	77.36	1.11	0.34
NVNT	3-DH5	2441	Ant1	77.36	1.11	0.34
NVNT	3-DH5	2480	Ant1	77.36	1.11	0.34



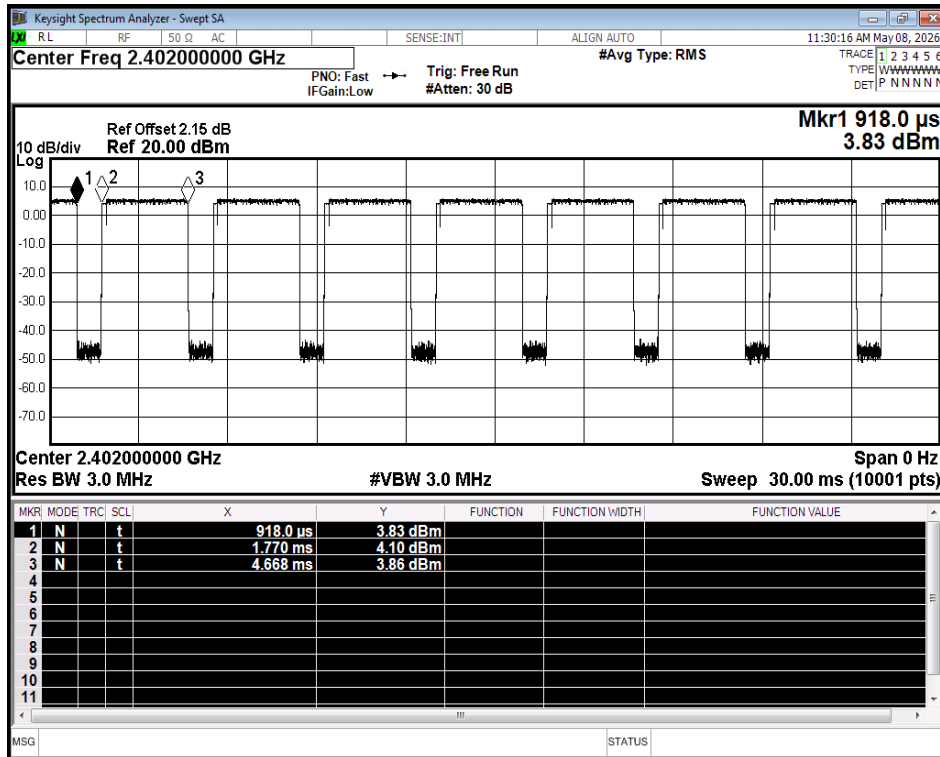
Duty Cycle NVNT 1-DH5 2402MHz Ant1



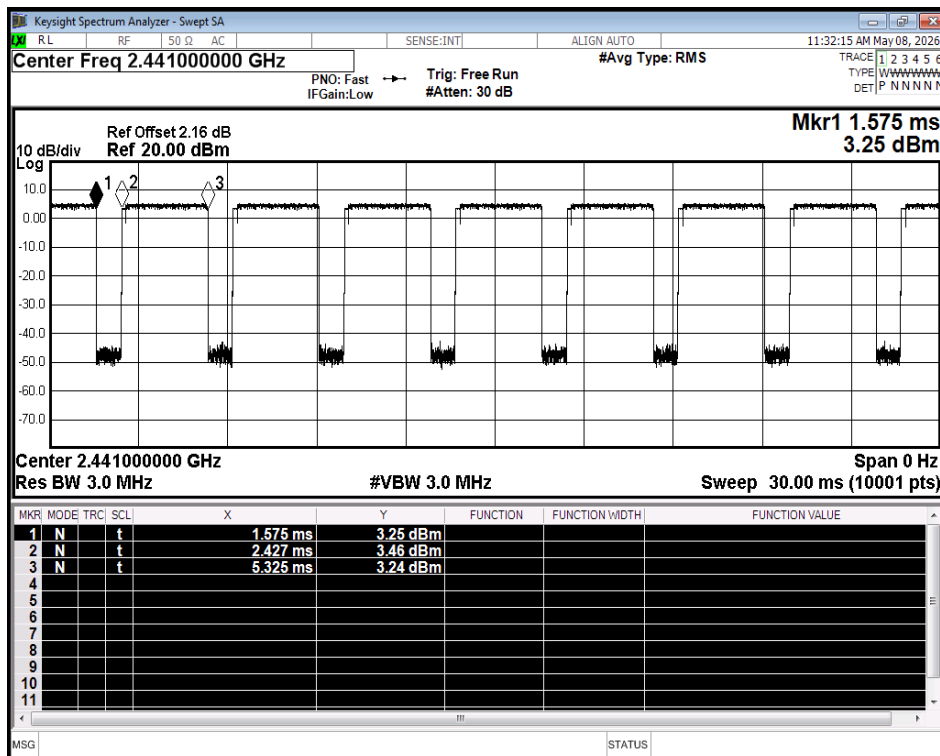
Duty Cycle NVNT 1-DH5 2441MHz Ant1



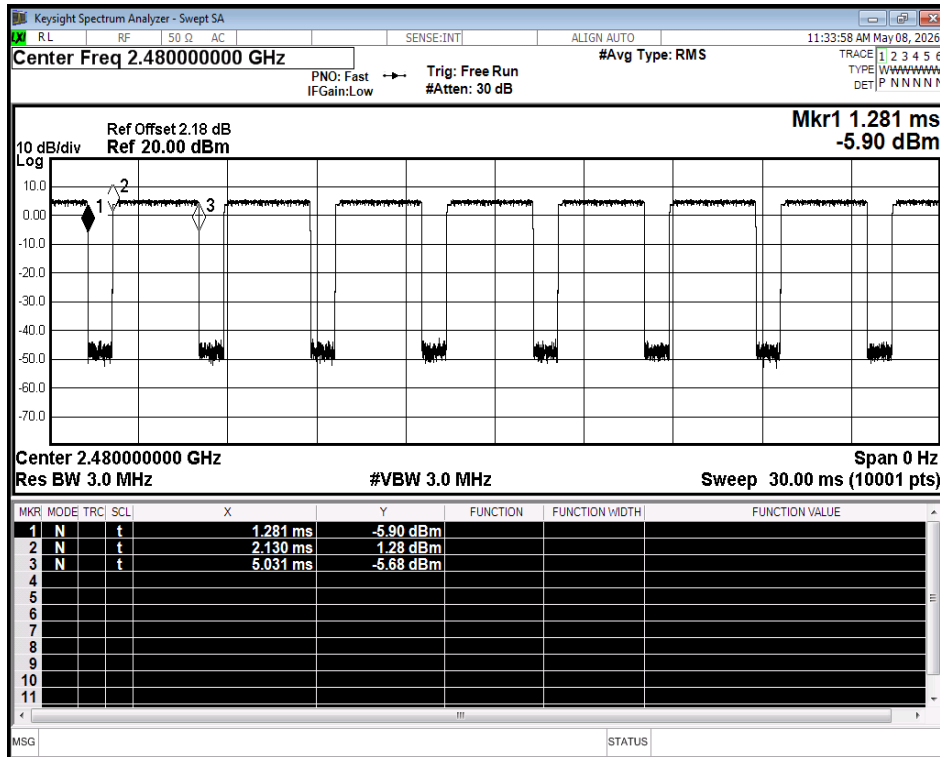
Duty Cycle NVNT 1-DH5 2480MHz Ant1



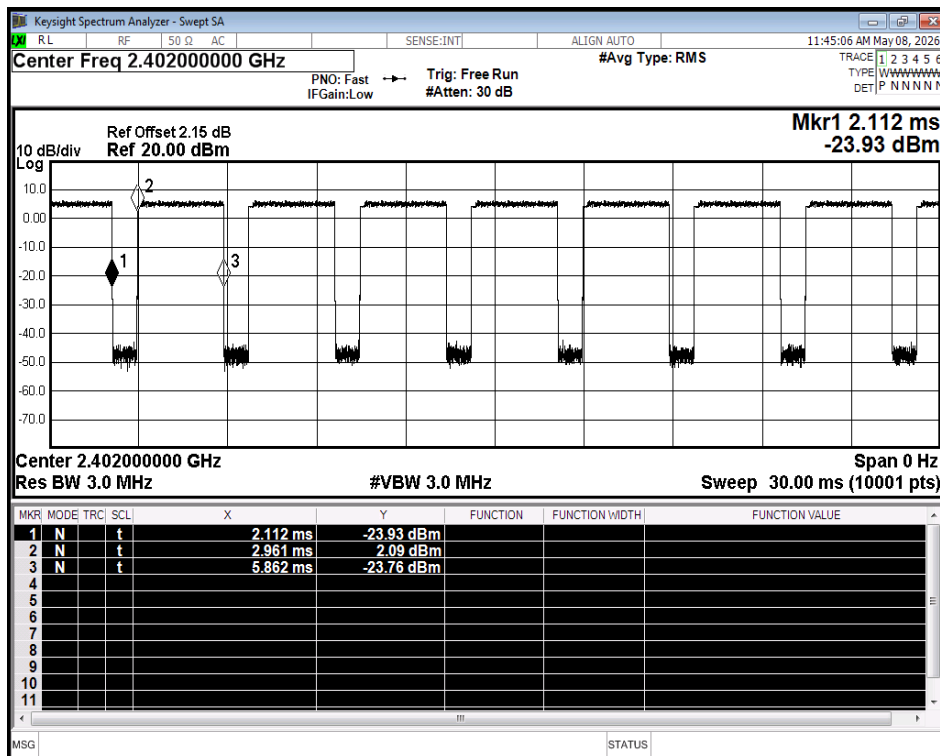
Duty Cycle NVNT 2-DH5 2402MHz Ant1



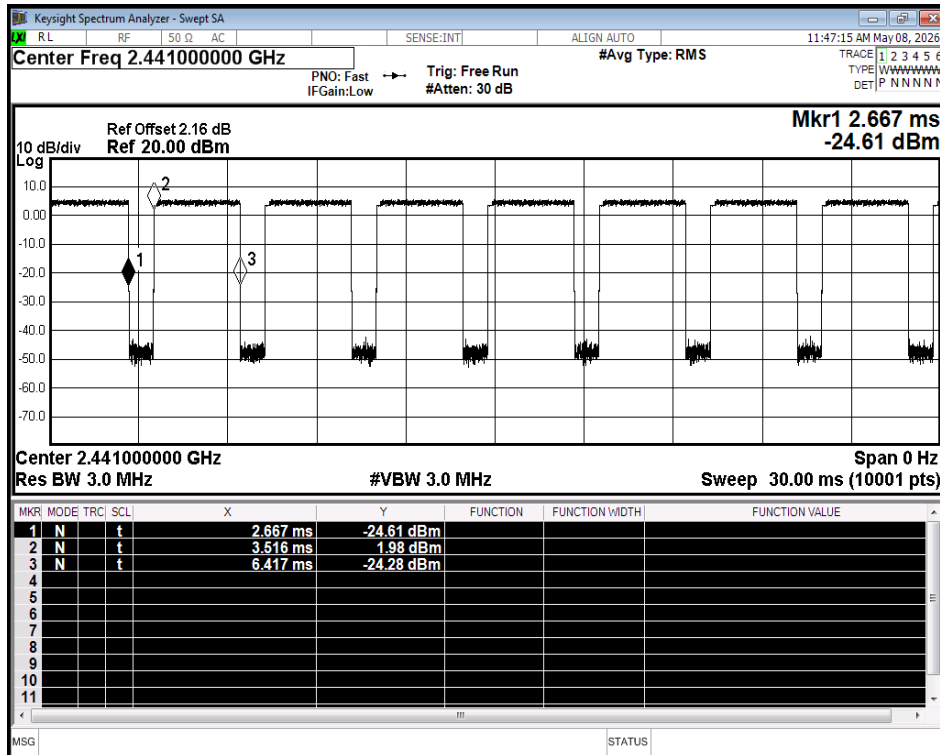
Duty Cycle NVNT 2-DH5 2441MHz Ant1



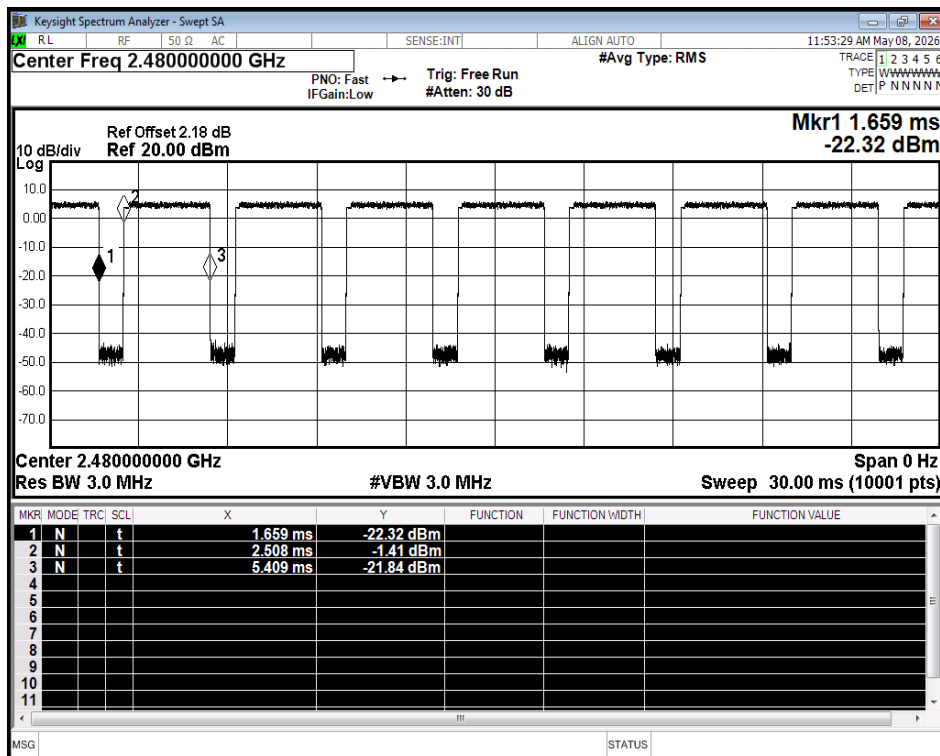
Duty Cycle NVNT 2-DH5 2480MHz Ant1



Duty Cycle NVNT 3-DH5 2402MHz Ant1



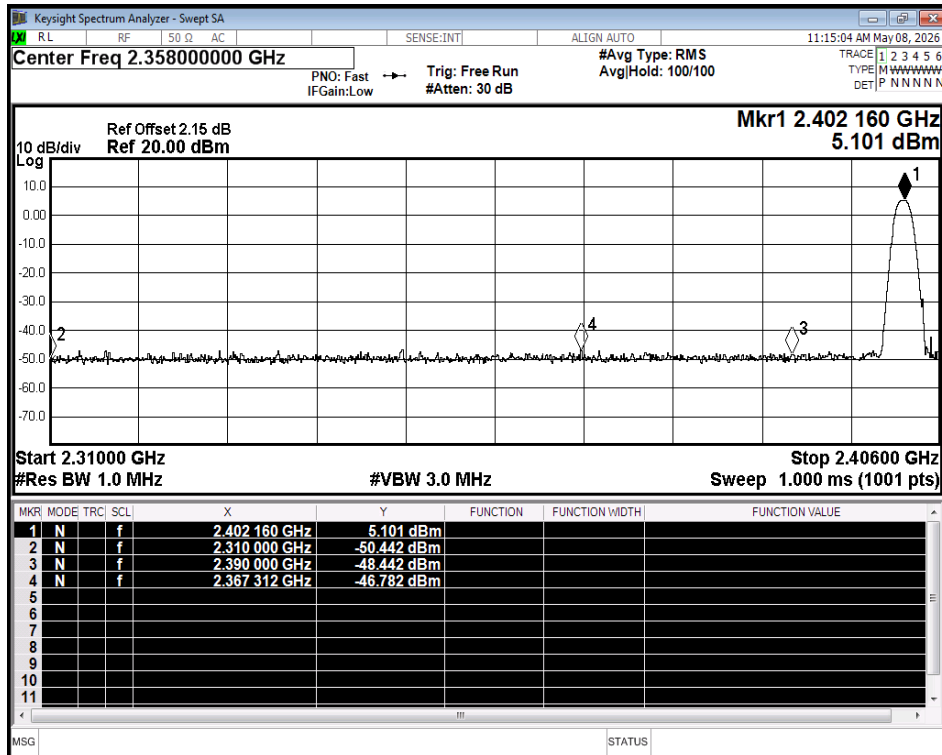
Duty Cycle NVNT 3-DH5 2441MHz Ant1



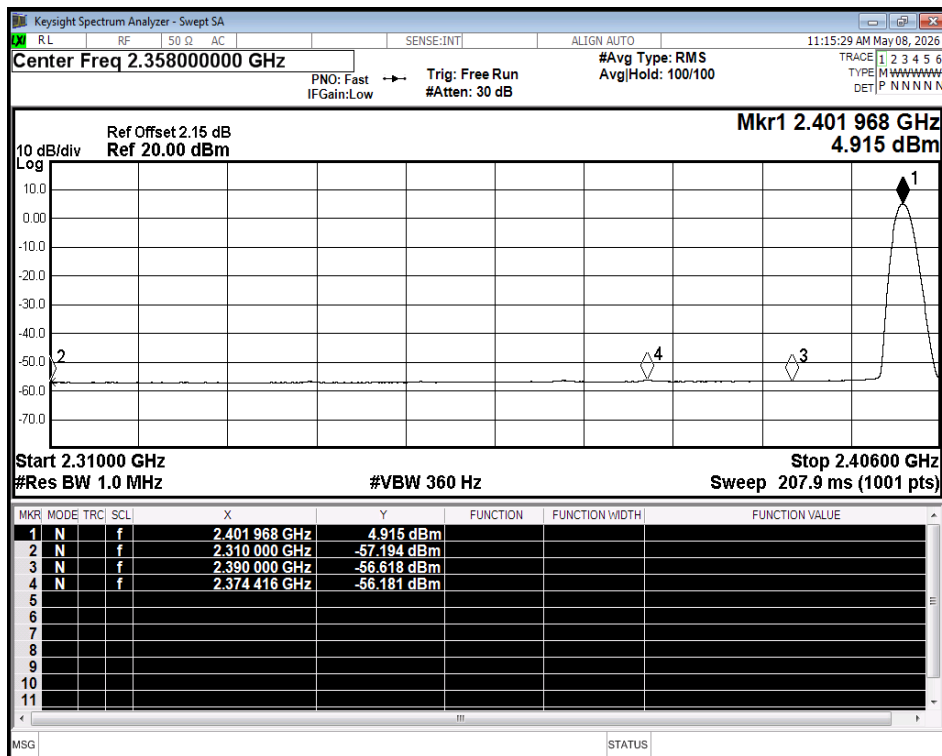
Duty Cycle NVNT 3-DH5 2480MHz Ant1

9 Restrict Band

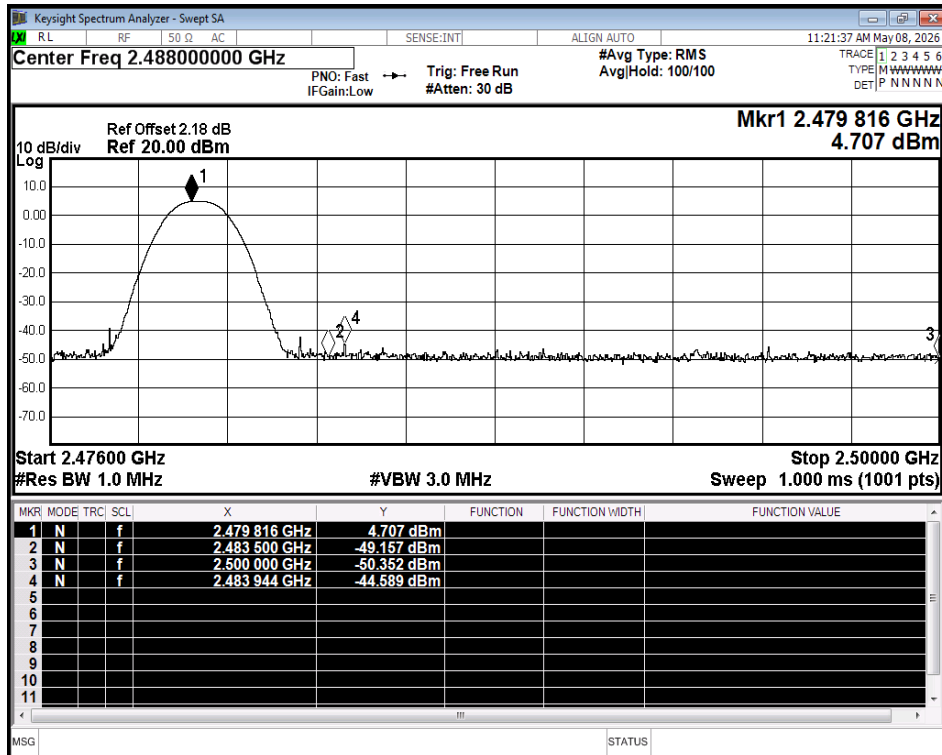
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-50.44	2	46.82	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-57.19	2	40.07	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2367.312	-46.78	2	50.48	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2374.416	-56.18	2	41.08	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-48.43	2	48.83	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-56.67	2	40.59	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.15	2	48.11	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-53.7	2	43.56	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.944	-44.58	2	52.68	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-53.7	2	43.56	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.35	2	46.91	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-56.51	2	40.75	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.67	2	46.59	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-57.16	2	40.1	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2338.224	-47.21	2	50.05	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2374.992	-56.28	2	40.98	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.78	2	47.48	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-56.6	2	40.66	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-46.01	2	51.25	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-52.41	2	44.85	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.608	-45.85	2	51.41	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-52.41	2	44.85	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49.44	2	47.82	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-56.48	2	40.78	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.18	2	47.08	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-57.19	2	40.07	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2386.032	-45.77	2	51.49	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2374.896	-56.36	2	40.9	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-48.63	2	48.63	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-56.69	2	40.57	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-48.05	2	49.21	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-52.22	2	45.04	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2484.04	-43.48	2	53.78	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-52.22	2	45.04	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-48.12	2	49.14	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-56.51	2	40.75	Average	54	Pass



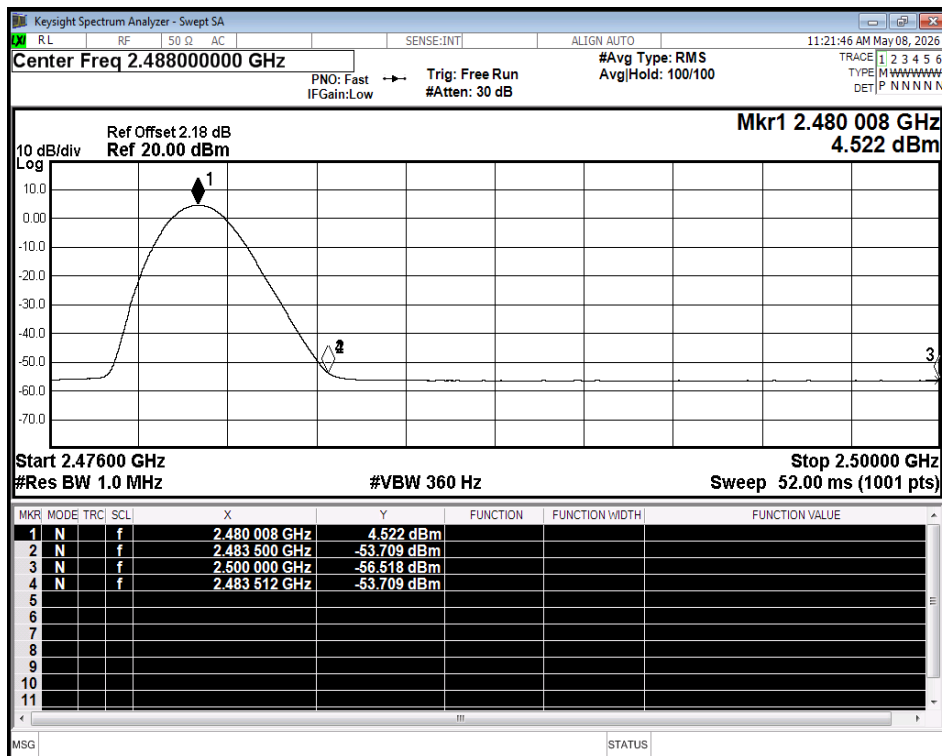
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak



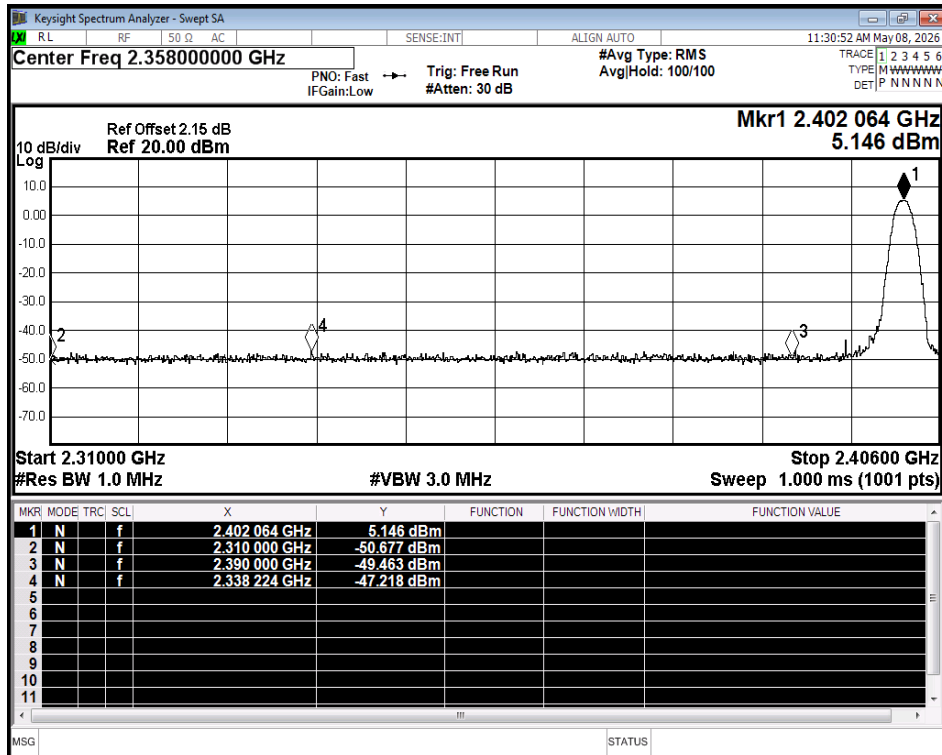
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average



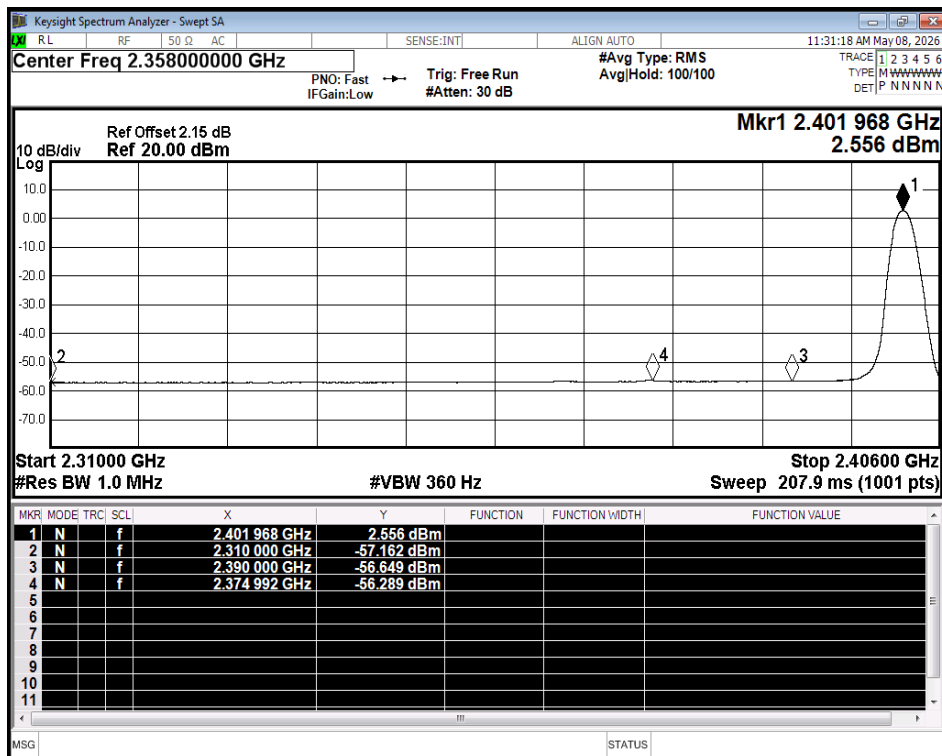
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



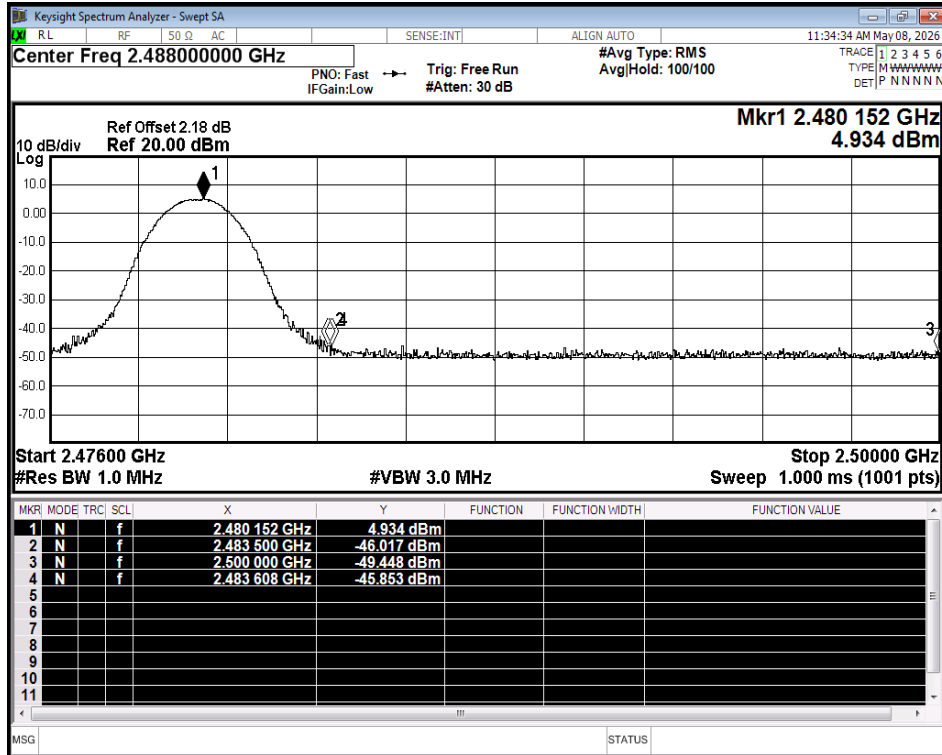
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average



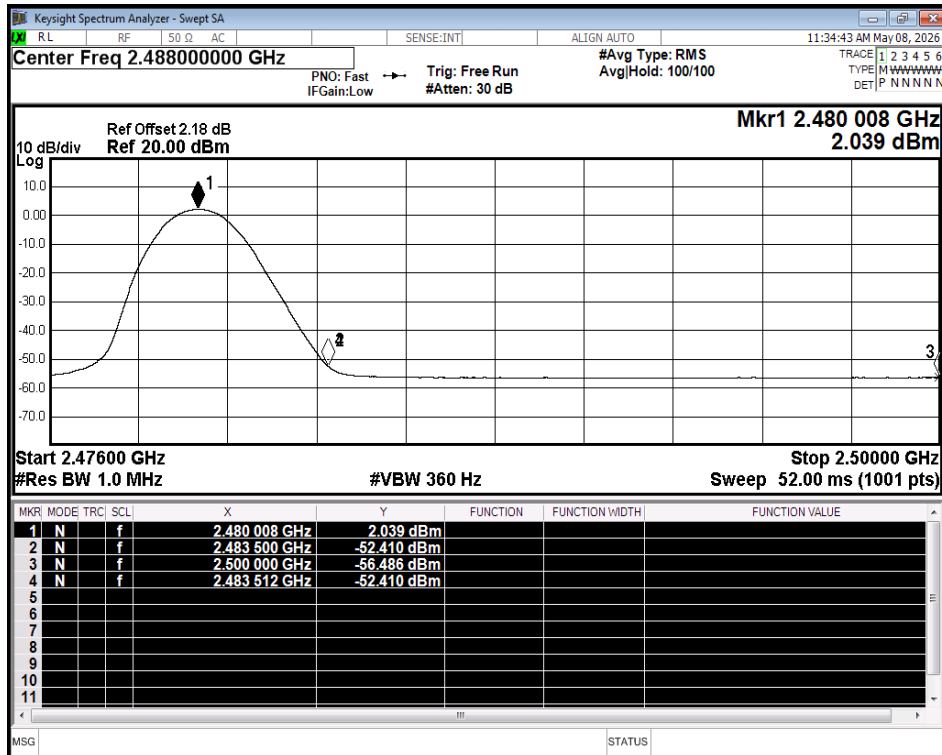
Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



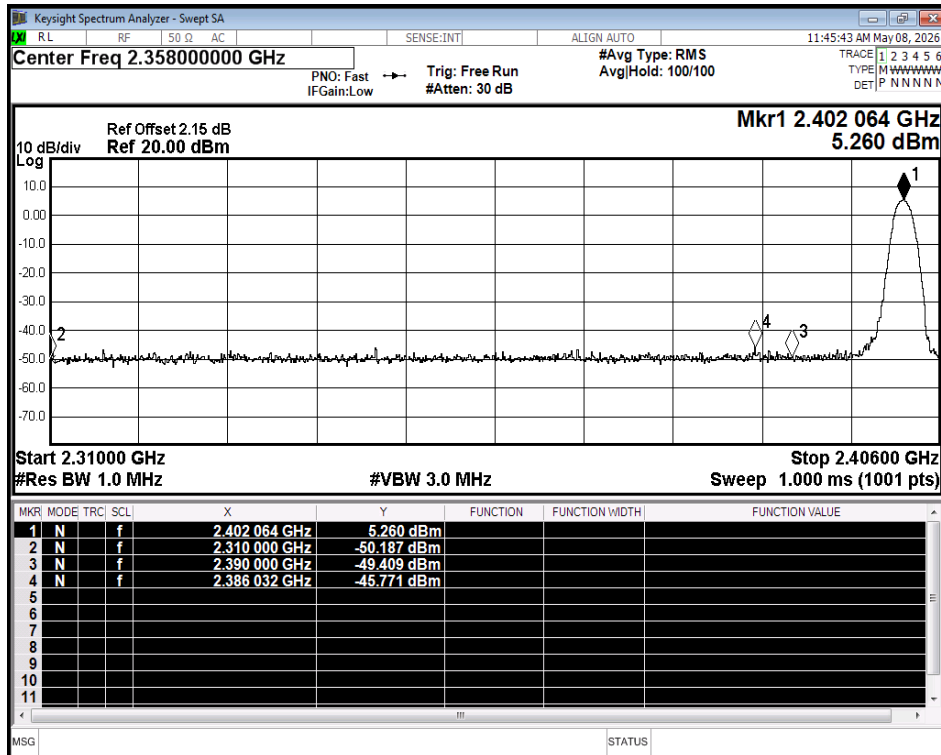
Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average



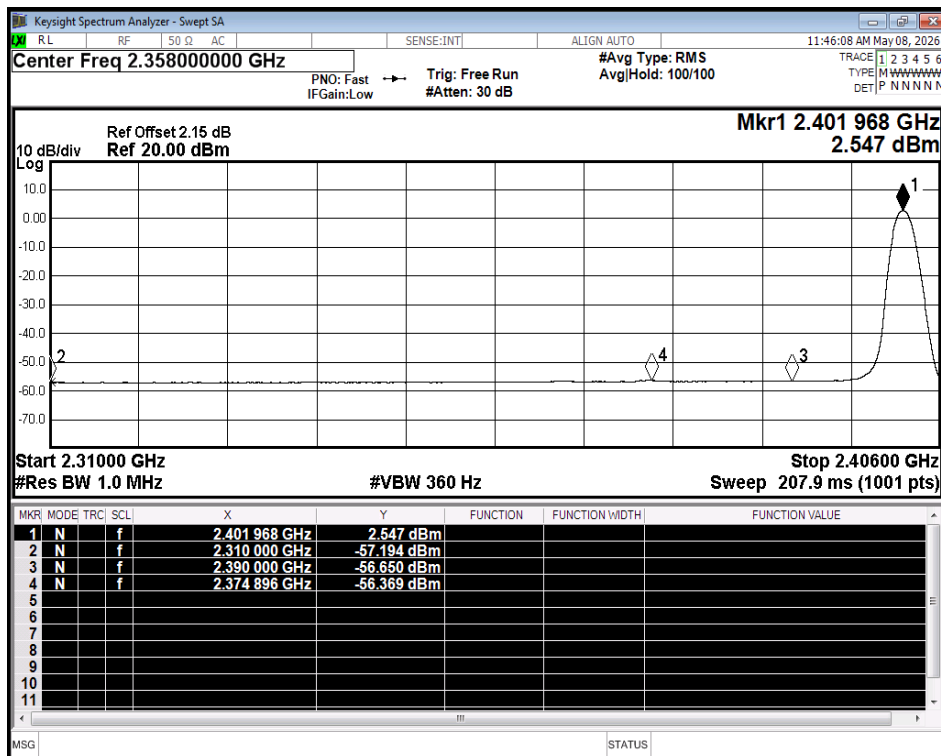
Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



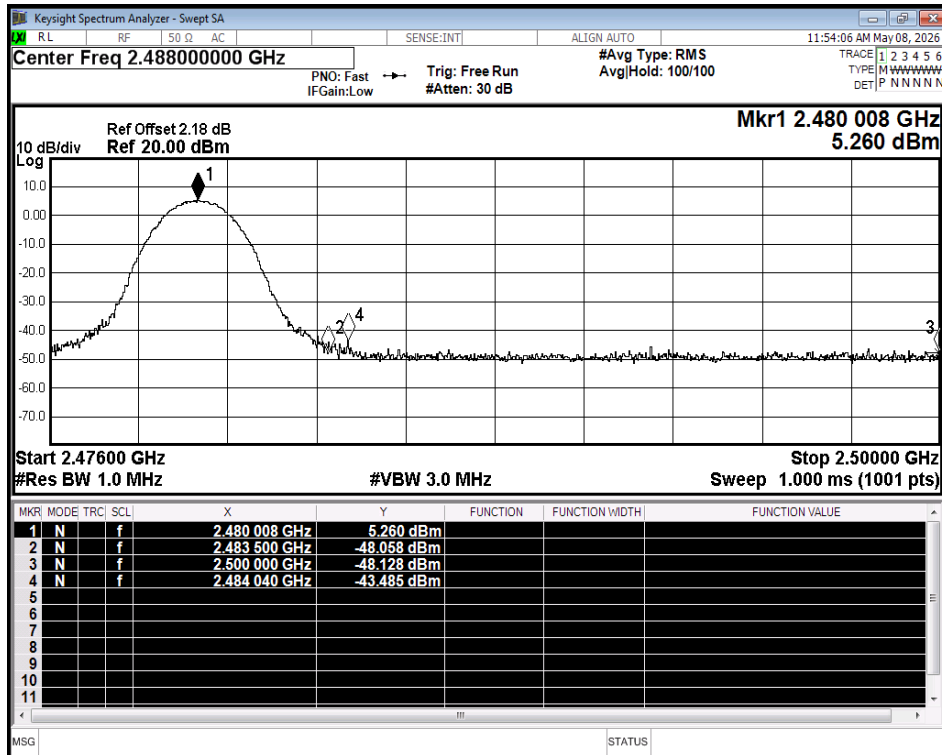
Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average



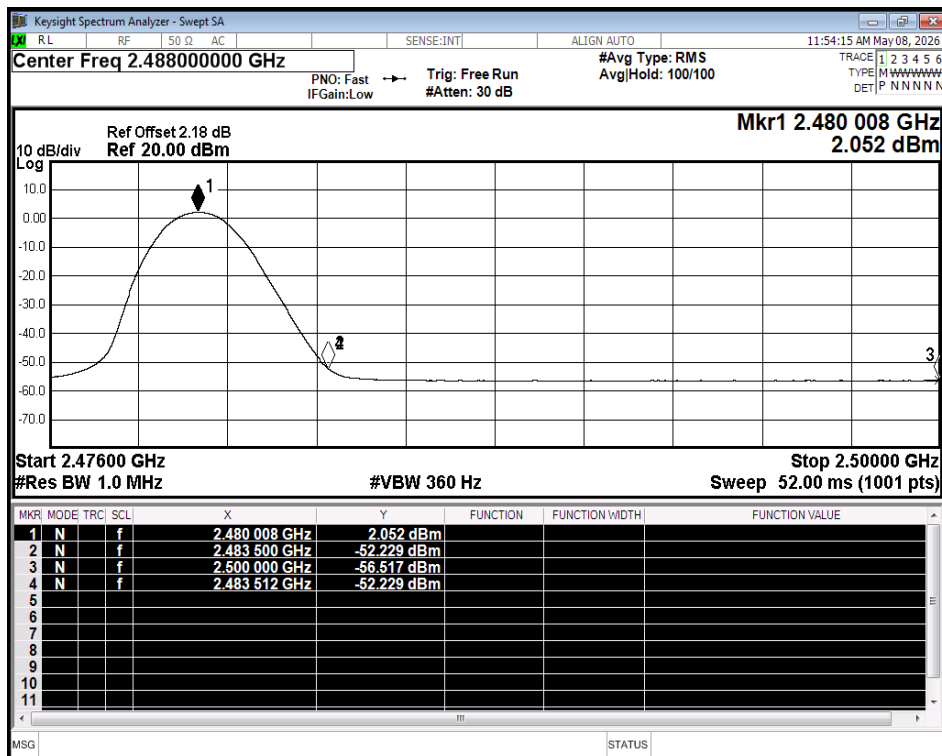
Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak



Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average



Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Peak



Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Average