



Appendix A

RF Test Data for BT(Conducted Measurement)

Product Name: Legends Ultimate 2 Arcade

Test Model: HA8805

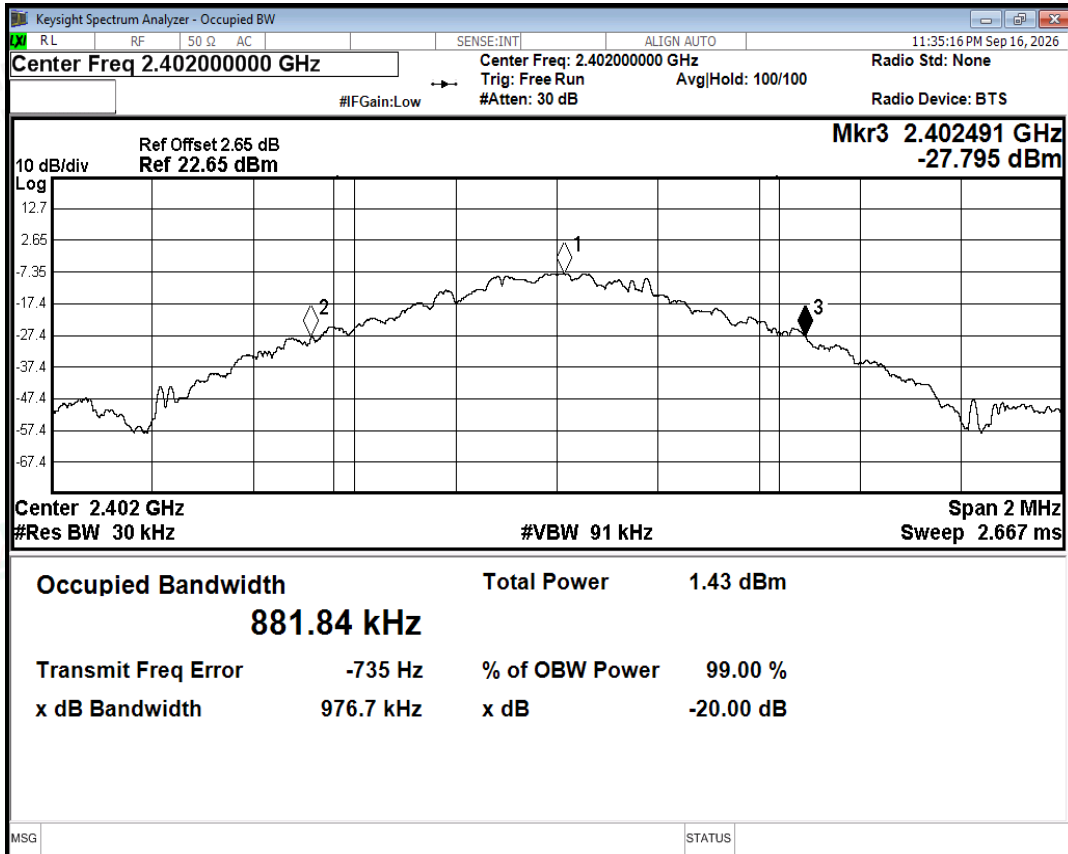
Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	53.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun

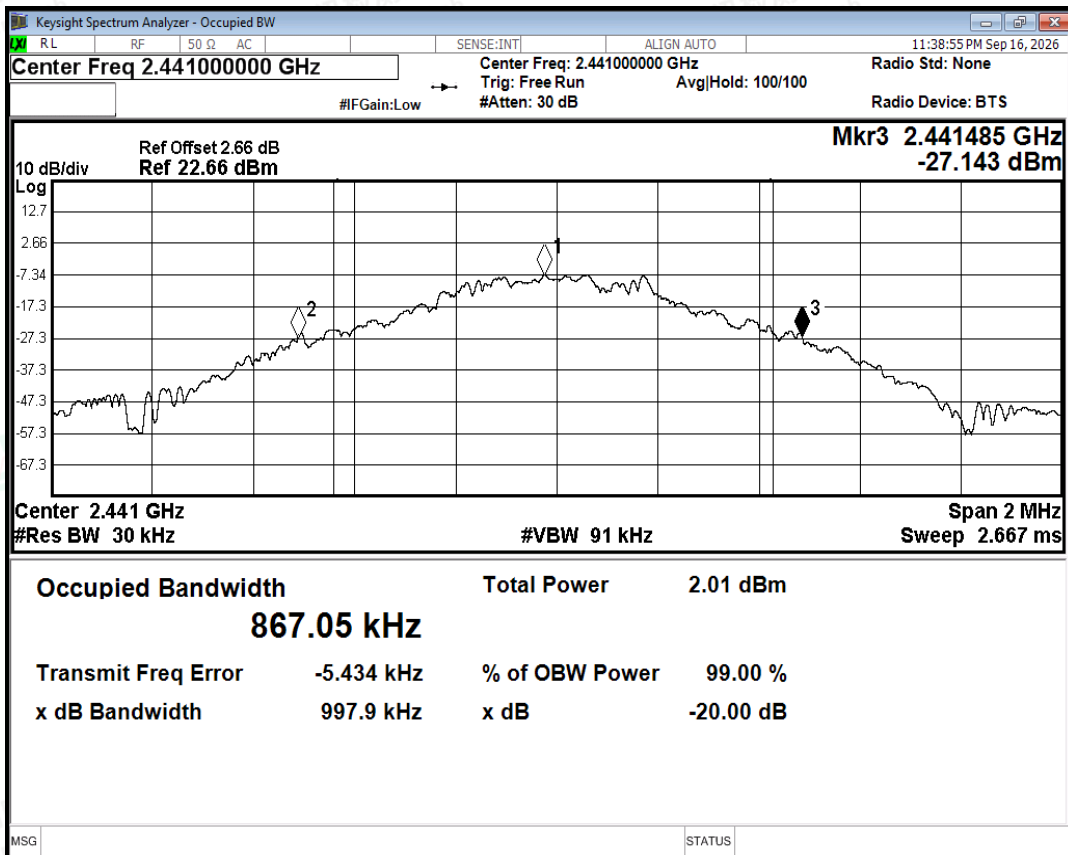


A.1 -20dB Bandwidth

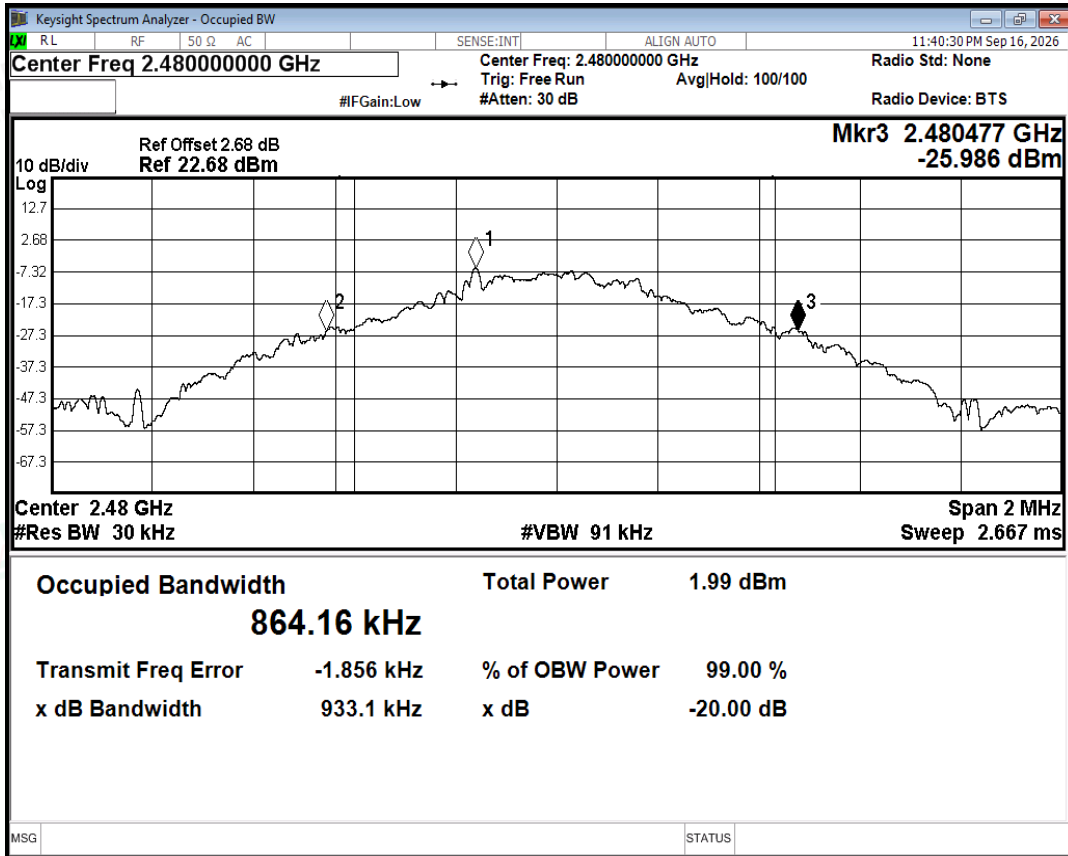
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.9767	0	Pass
NVNT	1-DH5	2441	Ant1	0.9979	0	Pass
NVNT	1-DH5	2480	Ant1	0.9331	0	Pass
NVNT	2-DH5	2402	Ant1	1.286	0	Pass
NVNT	2-DH5	2441	Ant1	1.3	0	Pass
NVNT	2-DH5	2480	Ant1	1.306	0	Pass
NVNT	3-DH5	2402	Ant1	1.315	0	Pass
NVNT	3-DH5	2441	Ant1	1.294	0	Pass
NVNT	3-DH5	2480	Ant1	1.301	0	Pass



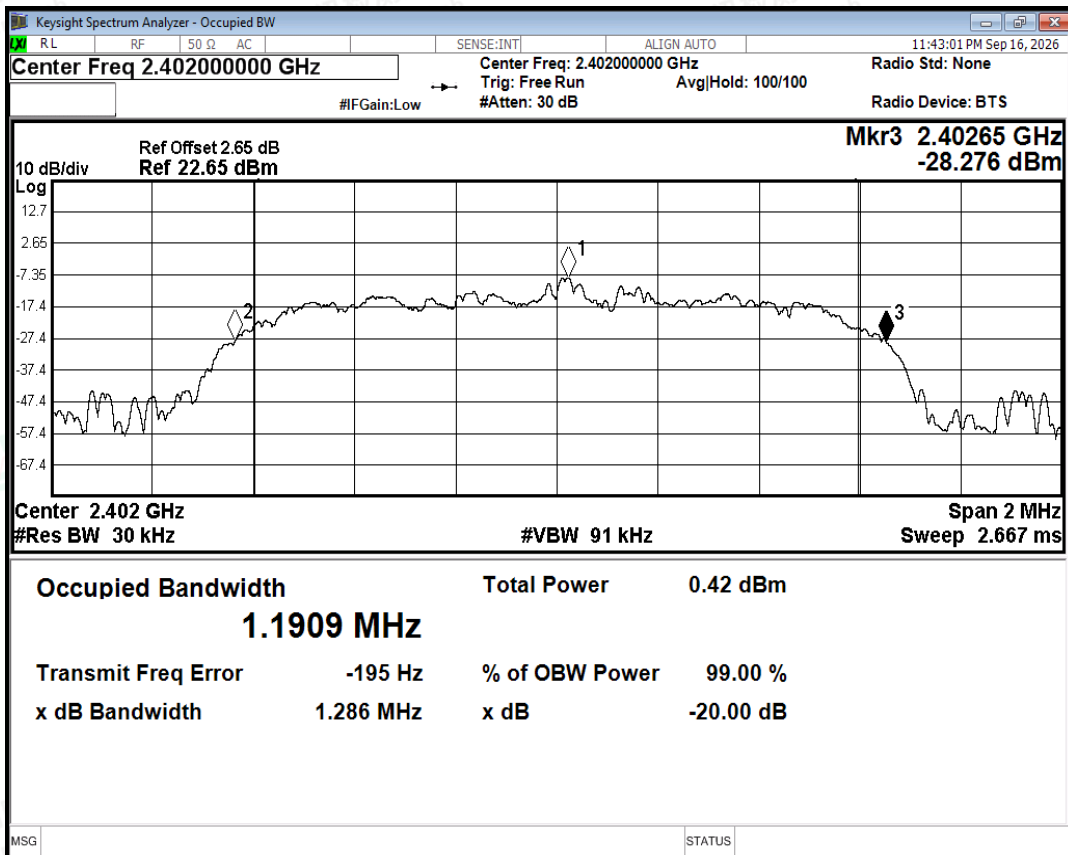
-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



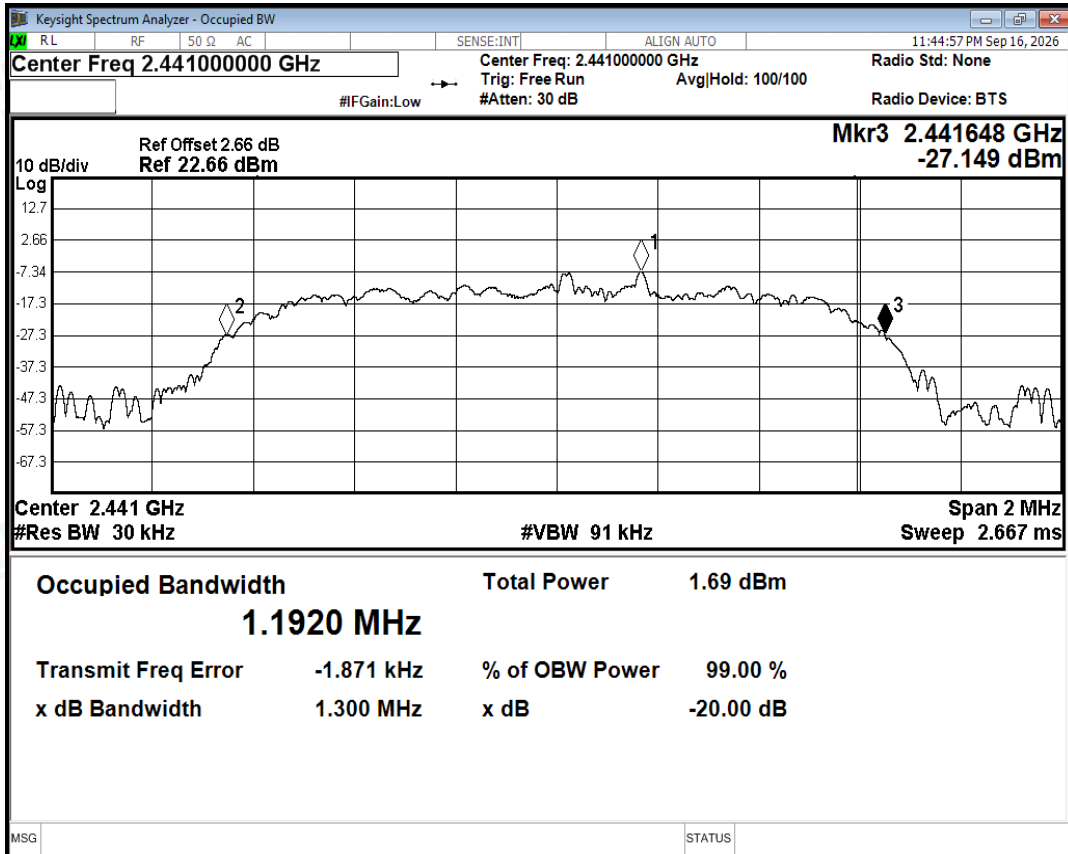
-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



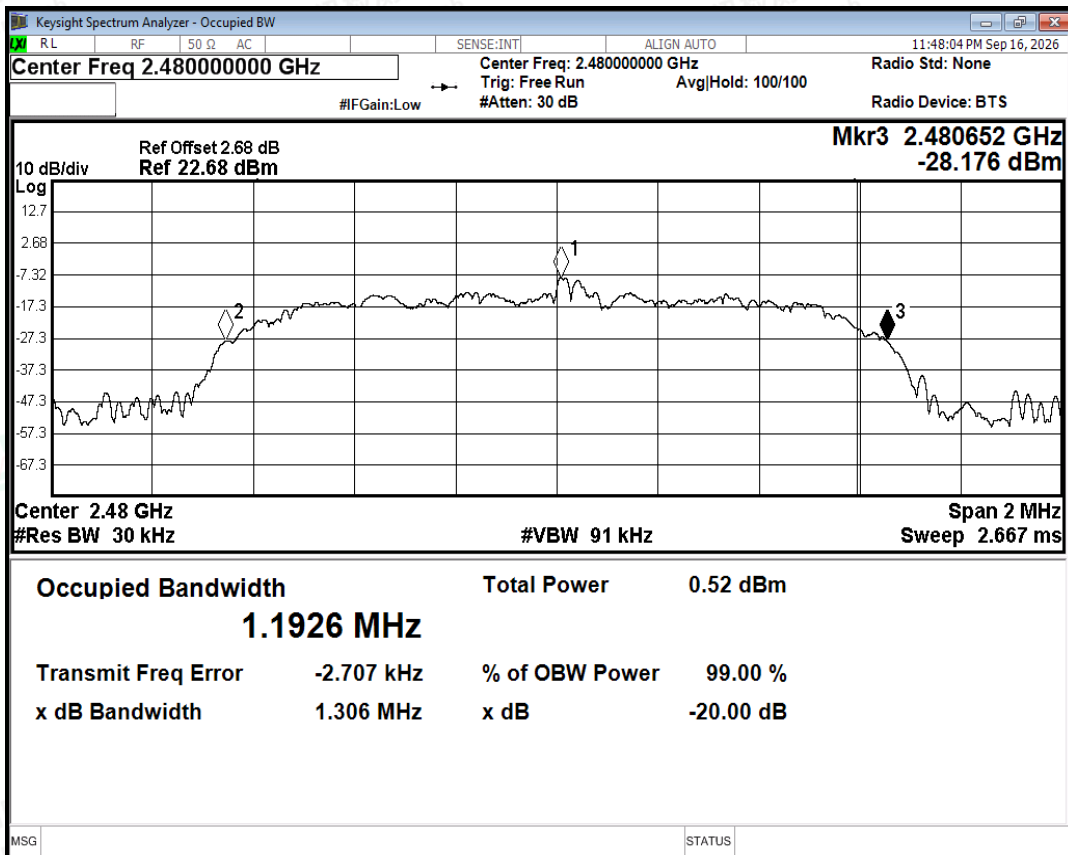
-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



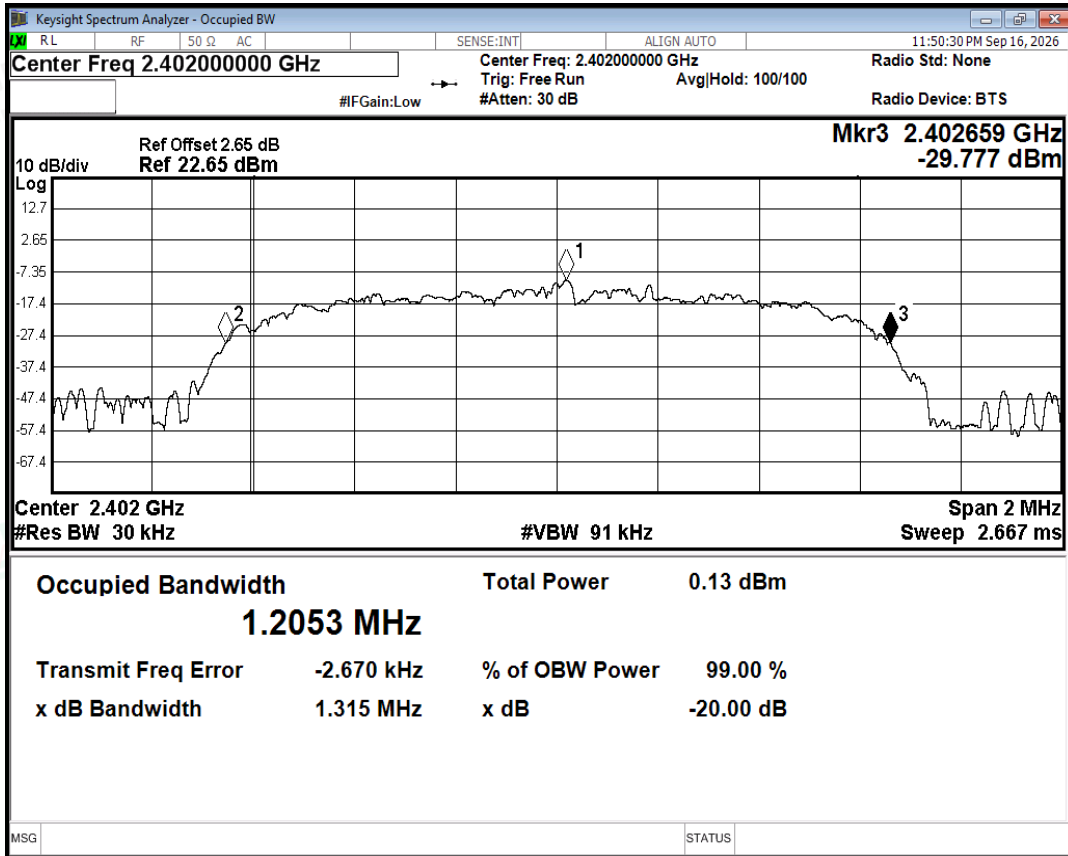
-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



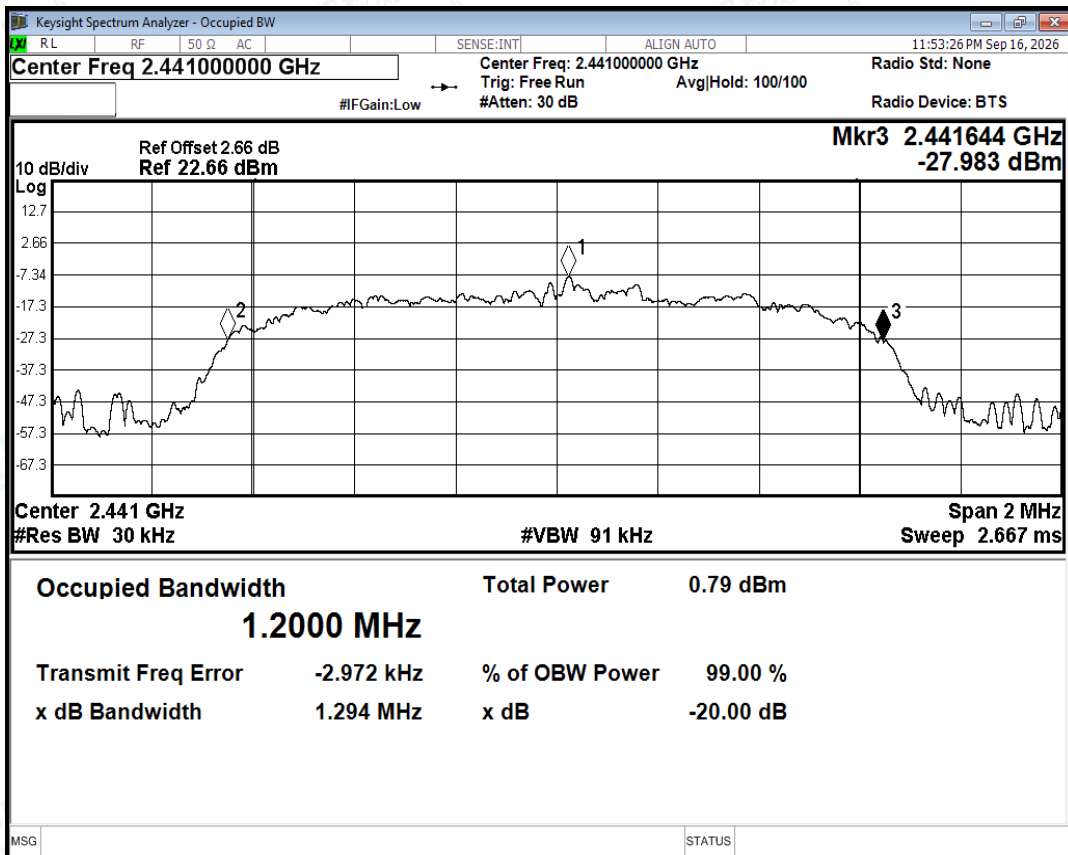
-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



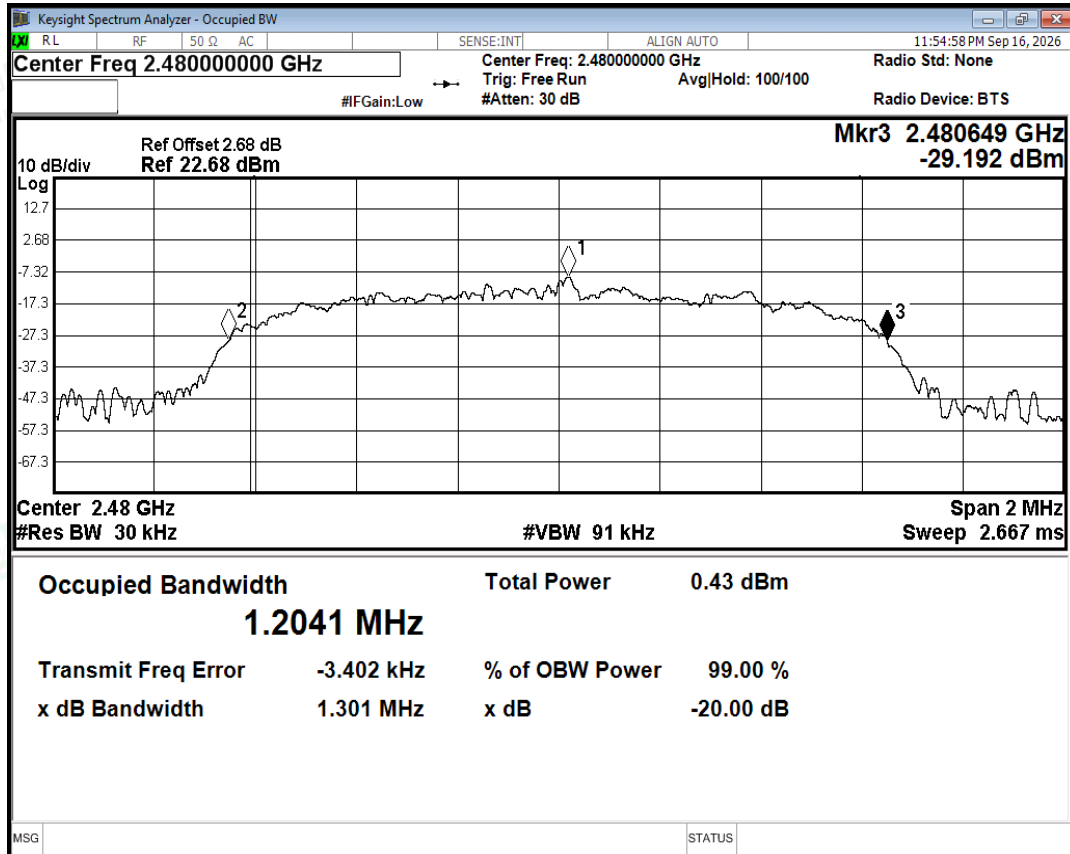
-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1

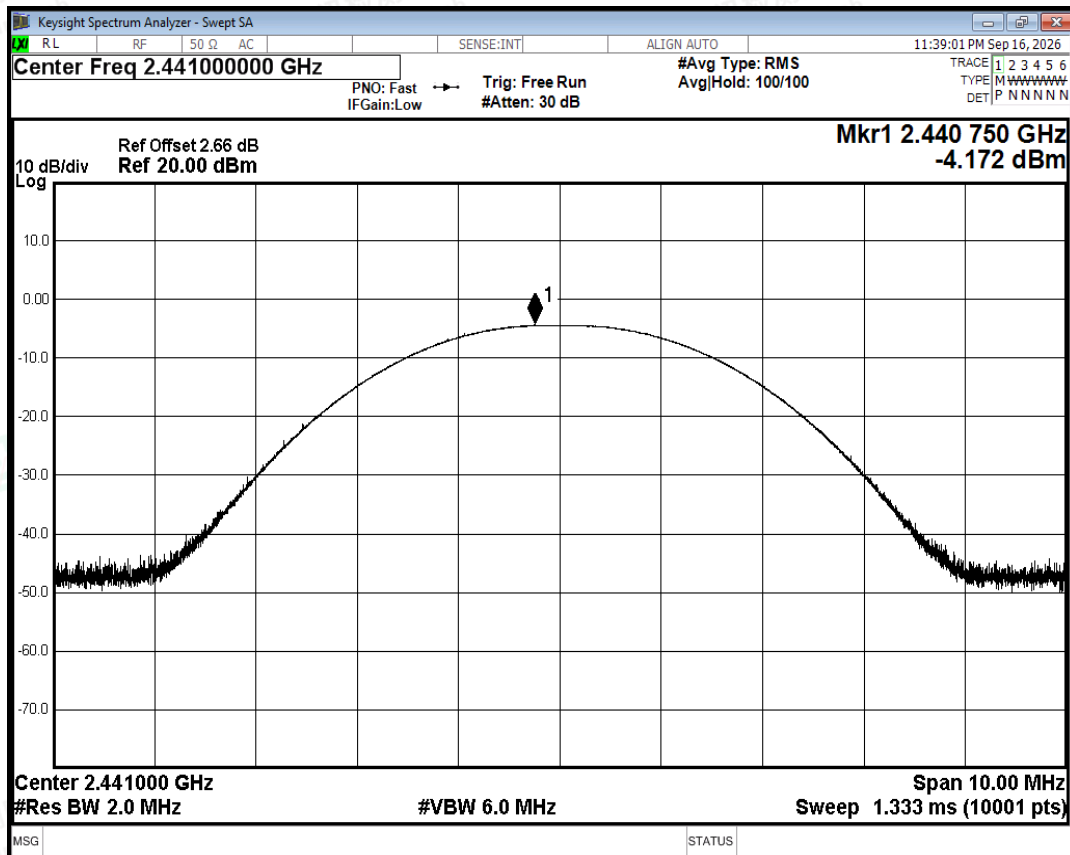
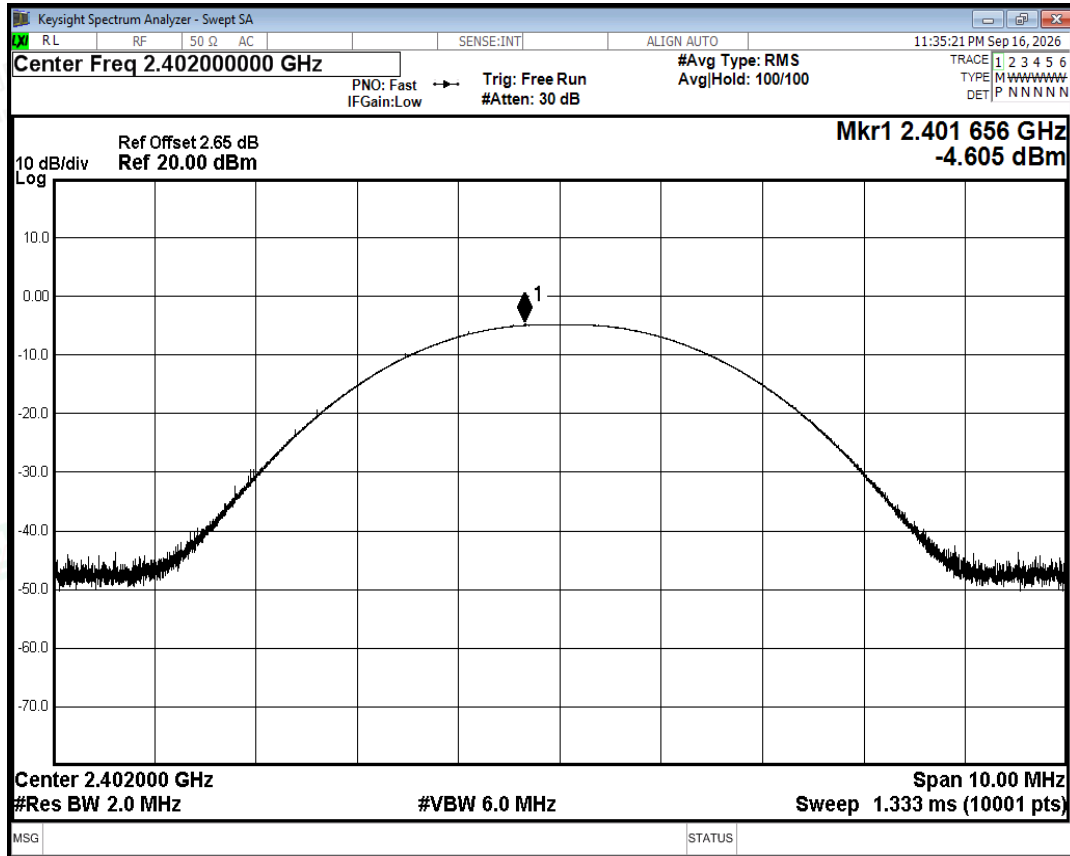


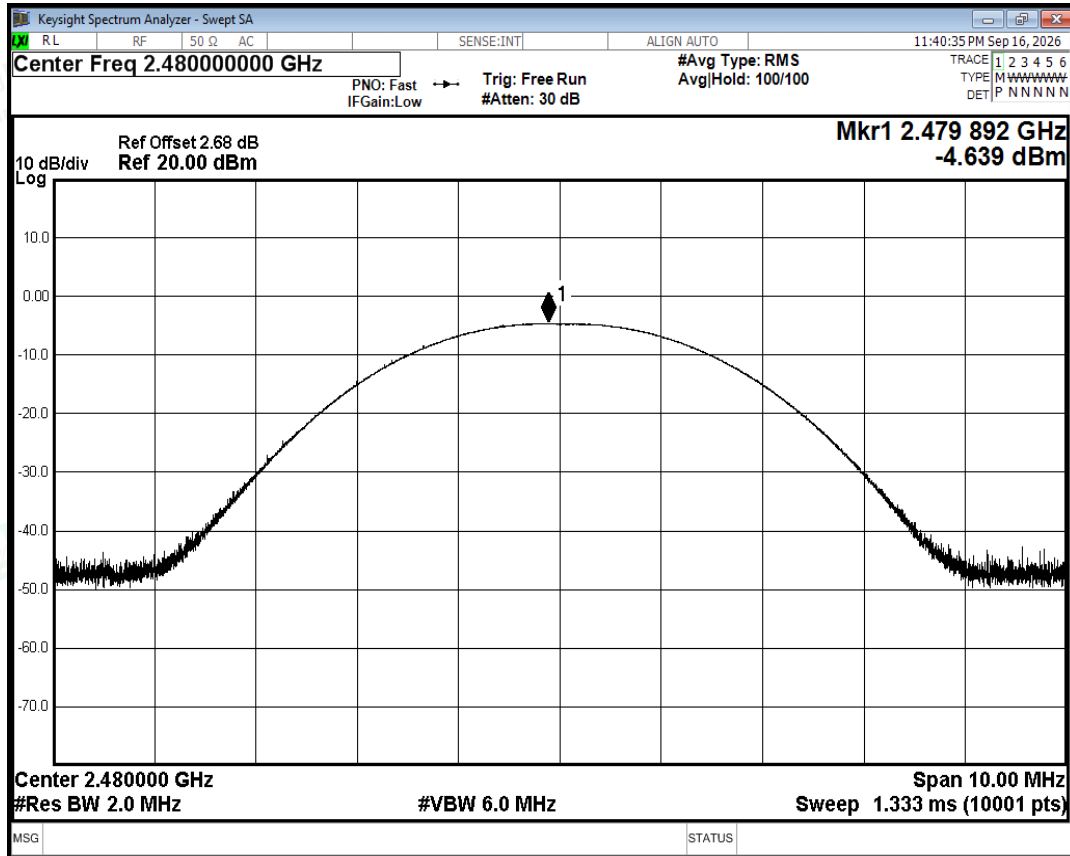
-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1



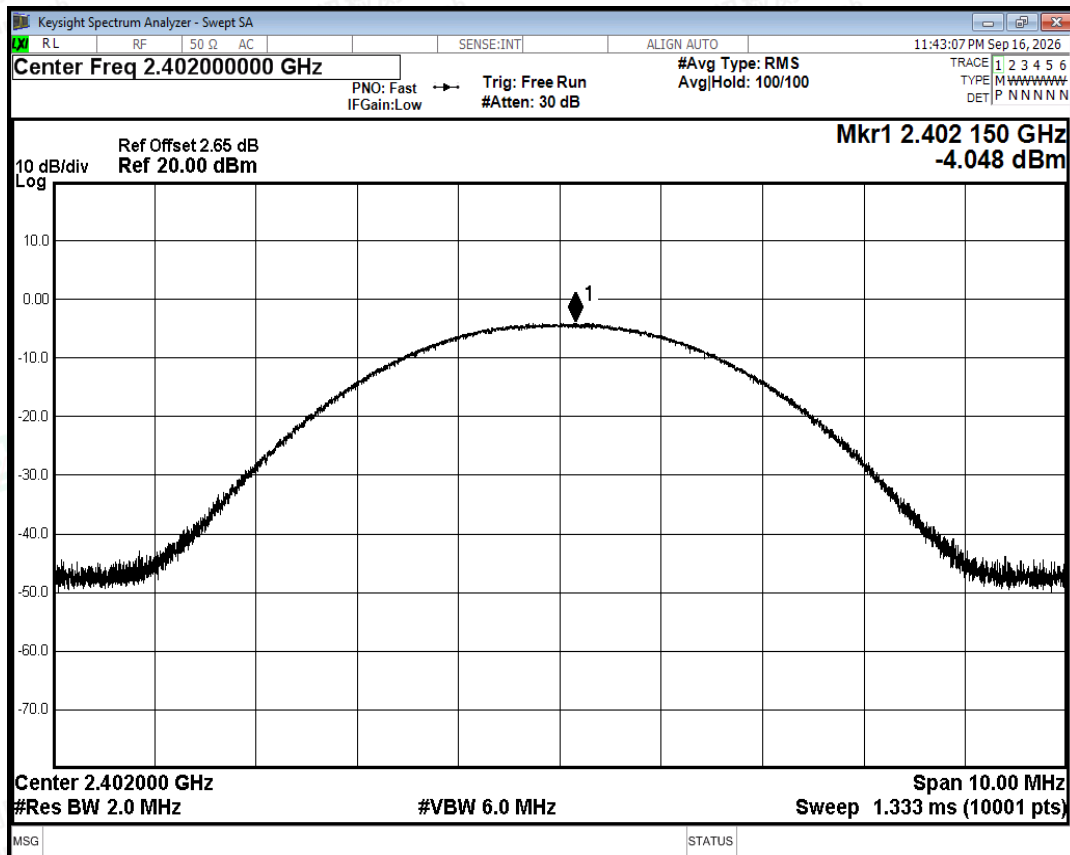
A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit Conducted(dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-4.61	30	Pass
NVNT	1-DH5	2441	Ant1	-4.17	30	Pass
NVNT	1-DH5	2480	Ant1	-4.64	30	Pass
NVNT	2-DH5	2402	Ant1	-4.05	30	Pass
NVNT	2-DH5	2441	Ant1	-3.73	30	Pass
NVNT	2-DH5	2480	Ant1	-4.04	30	Pass
NVNT	3-DH5	2402	Ant1	-3.87	30	Pass
NVNT	3-DH5	2441	Ant1	-3.58	30	Pass
NVNT	3-DH5	2480	Ant1	-3.94	30	Pass

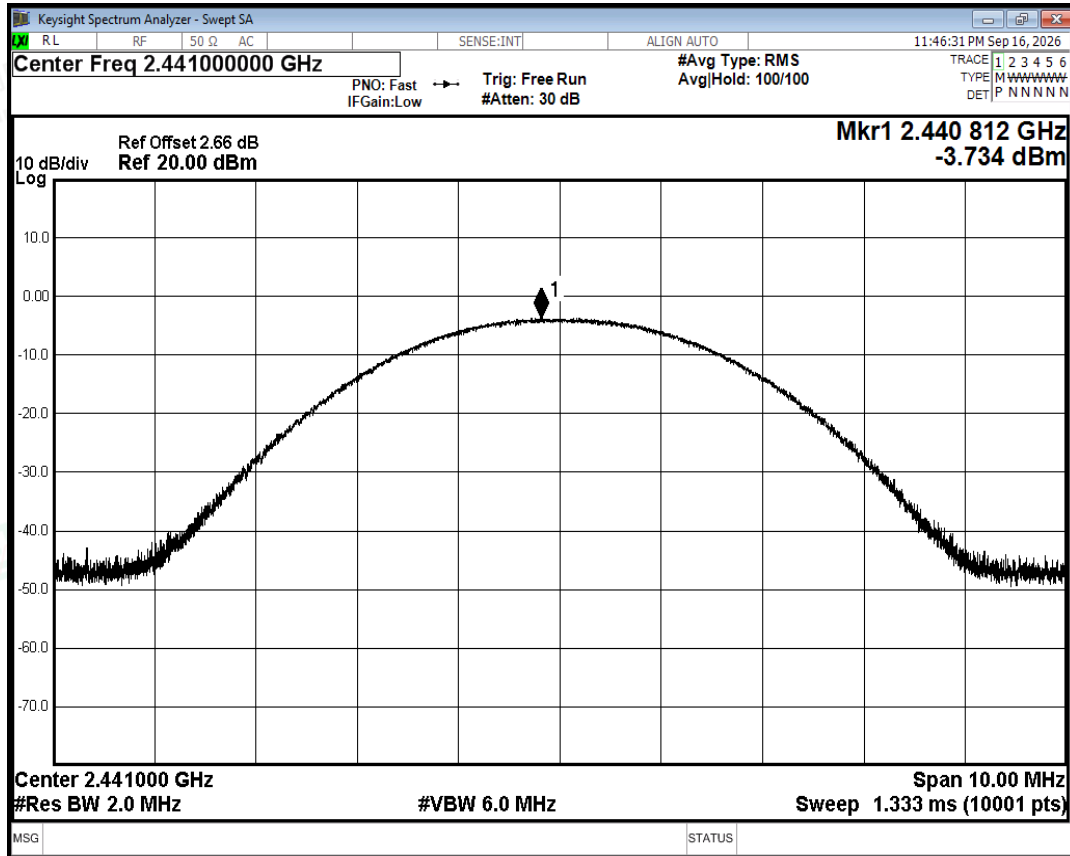




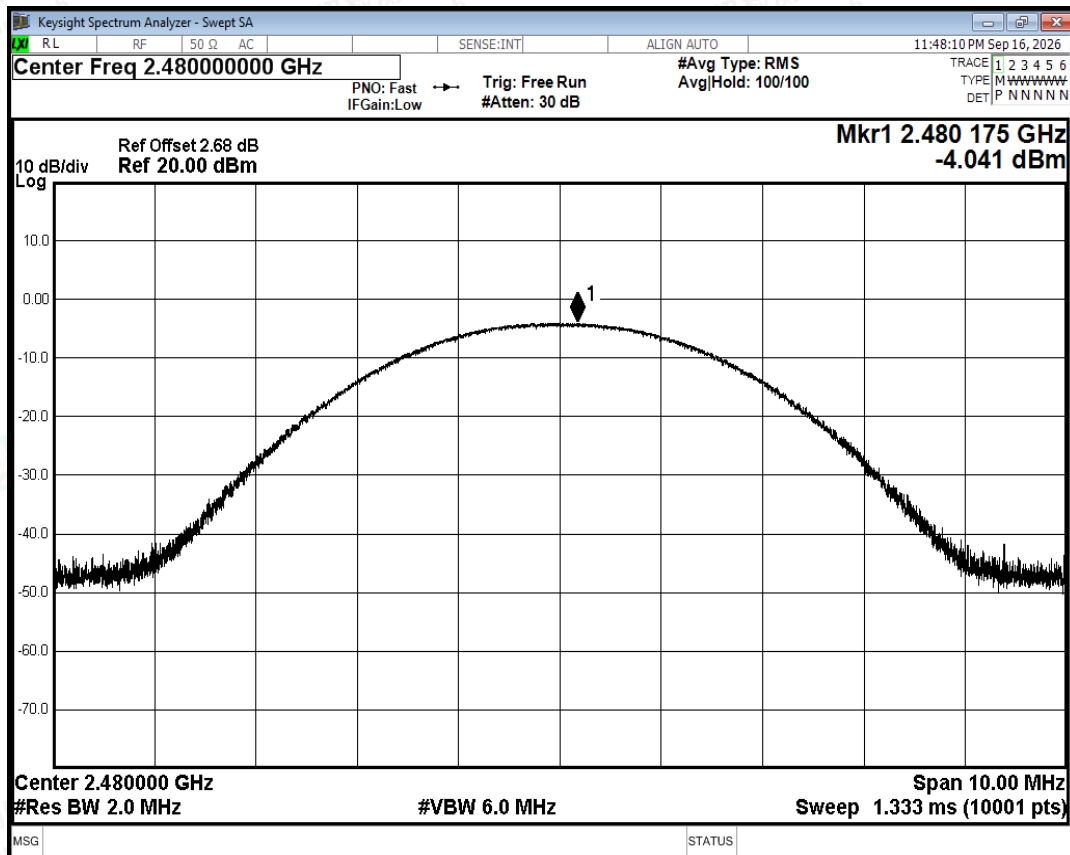
Peak Power NVNT 1-DH5 2480MHz Ant1



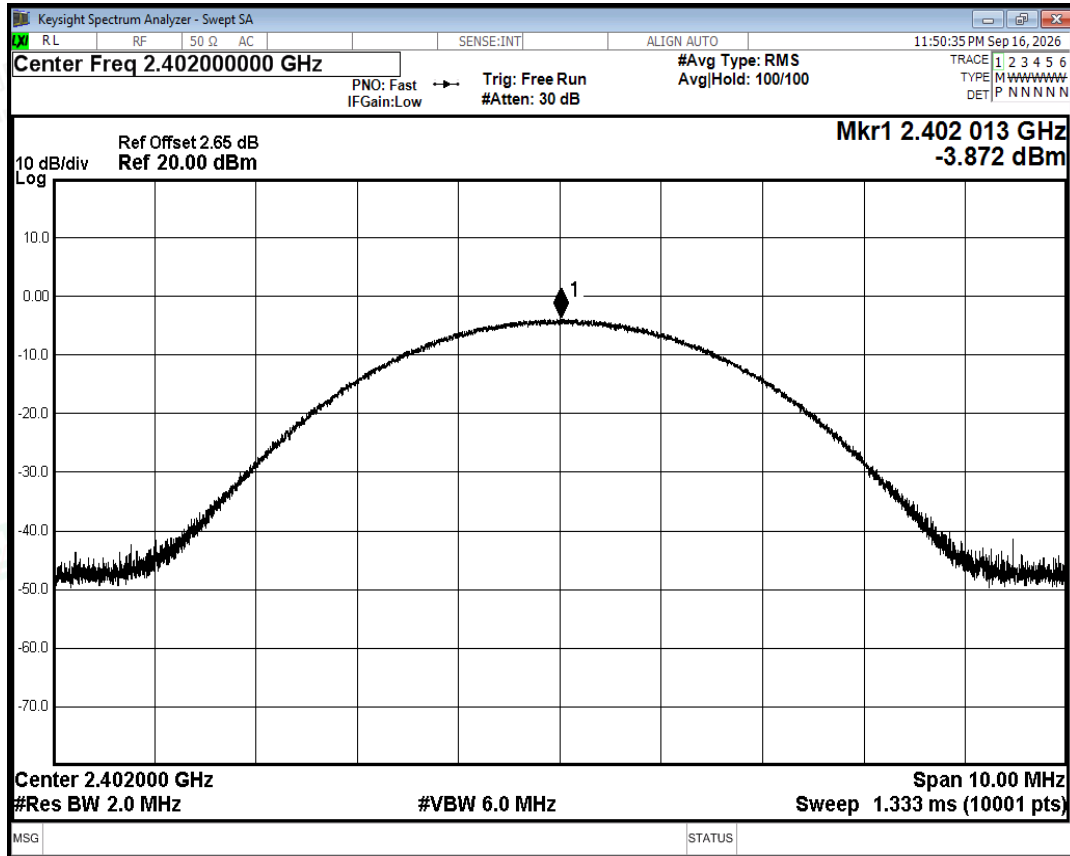
Peak Power NVNT 2-DH5 2402MHz Ant1



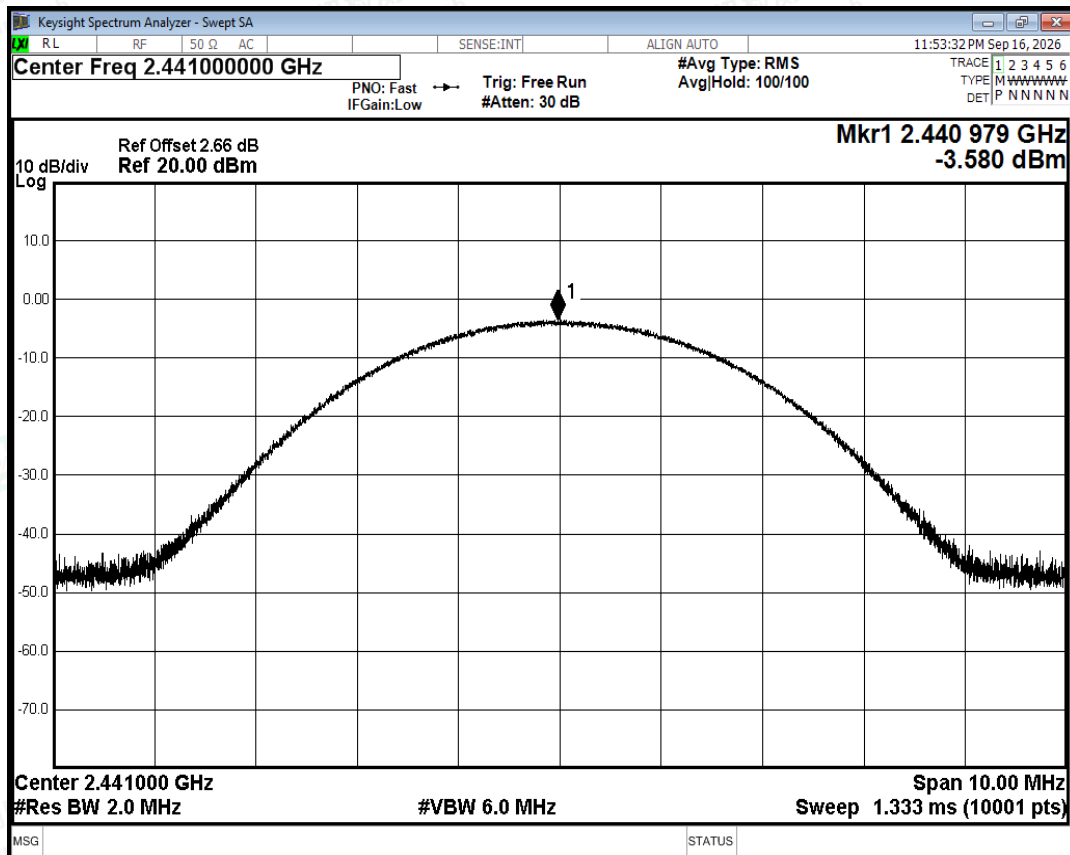
Peak Power NVNT 2-DH5 2441MHz Ant1



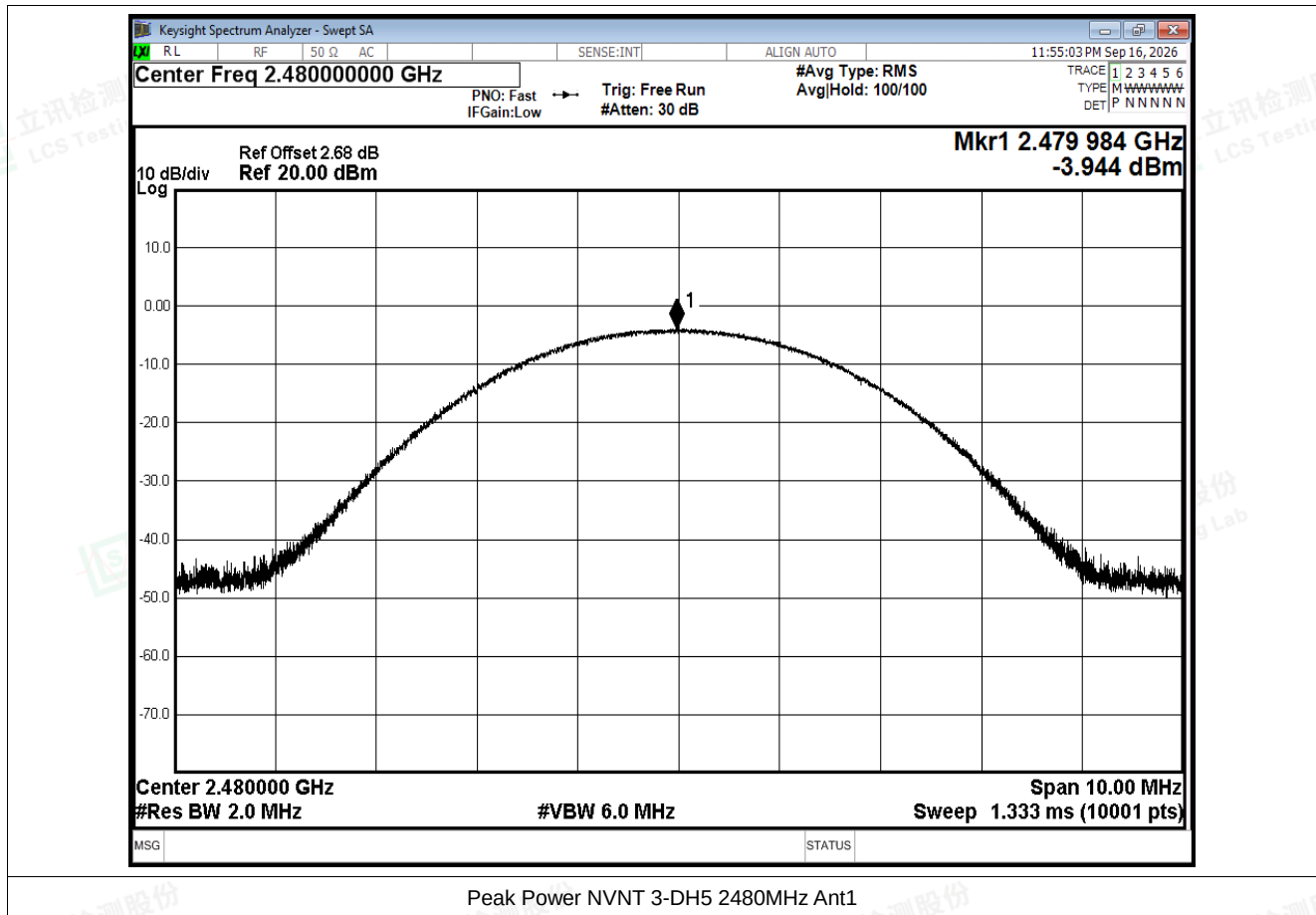
Peak Power NVNT 2-DH5 2480MHz Ant1



Peak Power NVNT 3-DH5 2402MHz Ant1



Peak Power NVNT 3-DH5 2441MHz Ant1

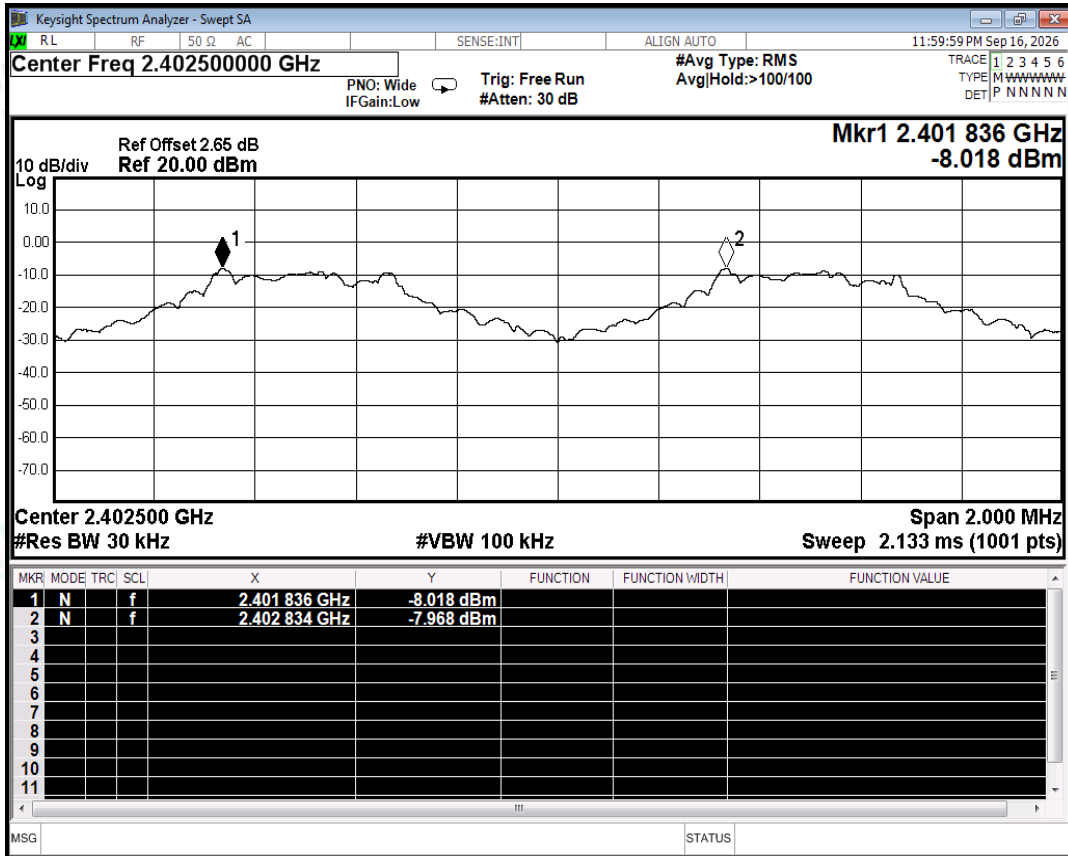




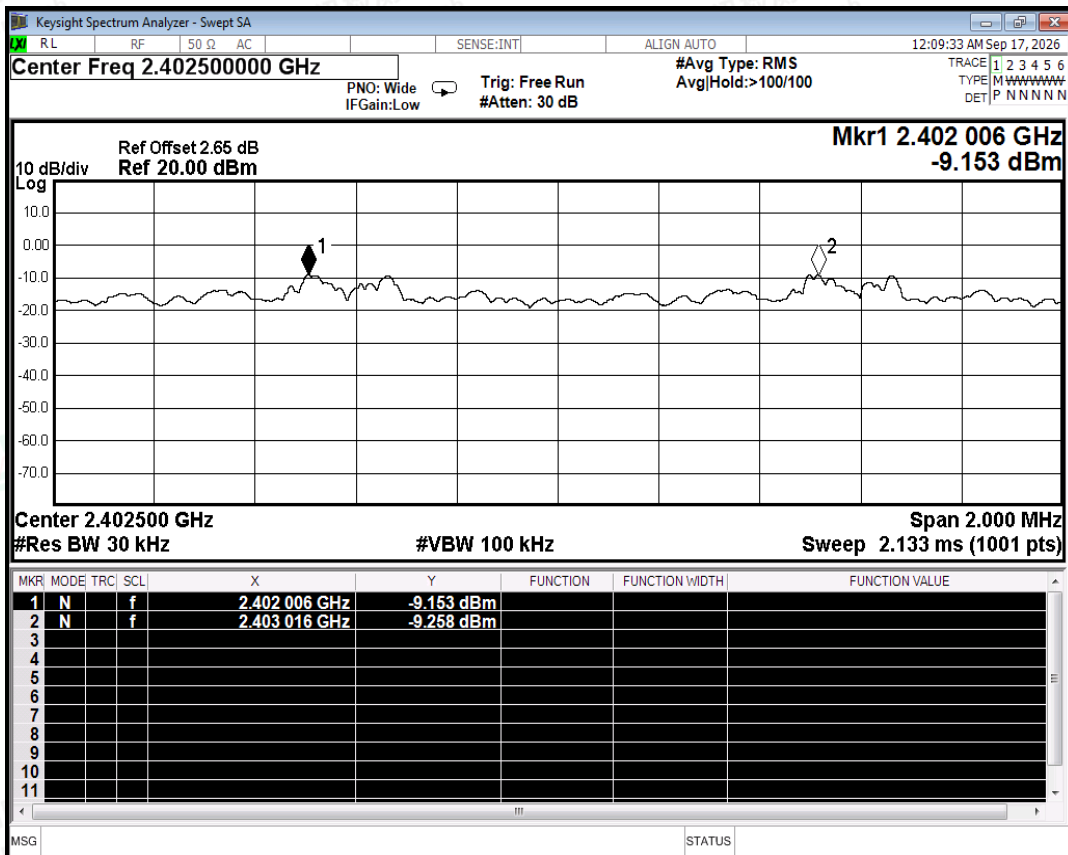
A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.836	2402.834	0.998	0.665	Pass
NVNT	2-DH5	Ant1	2402.006	2403.016	1.01	0.871	Pass
NVNT	3-DH5	Ant1	2402.028	2403.03	1.002	0.877	Pass

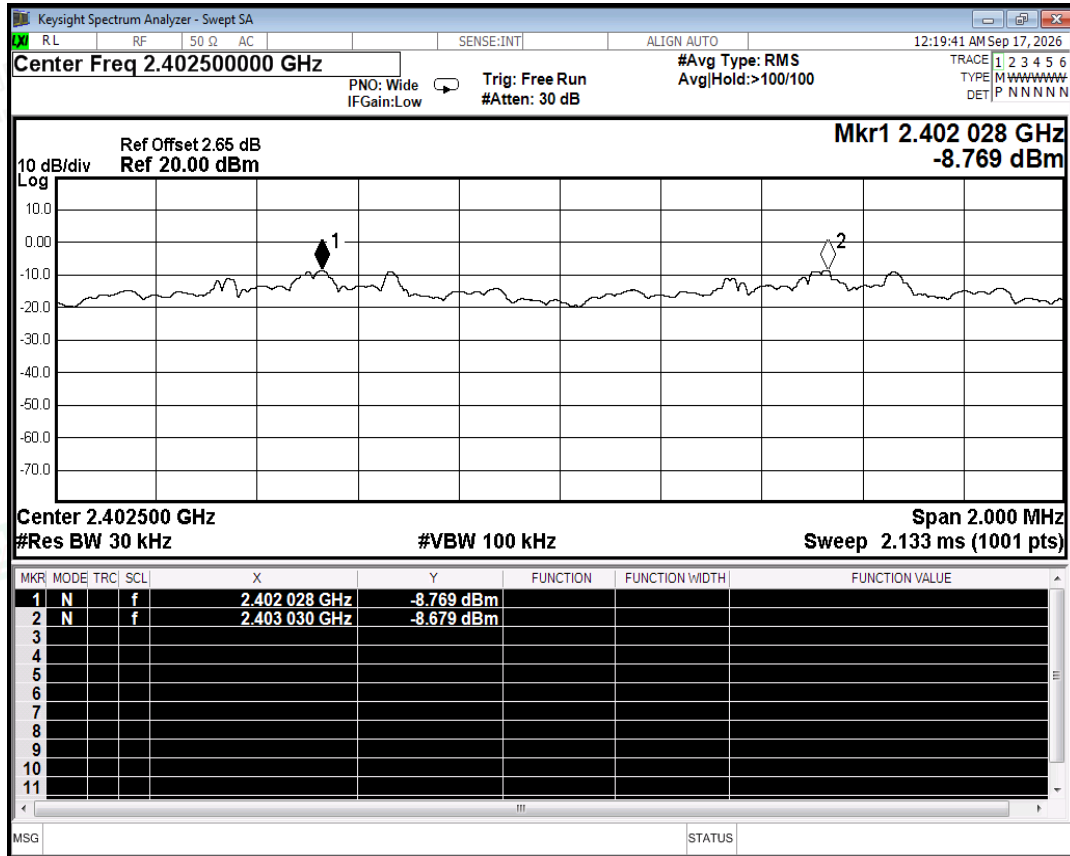




CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1



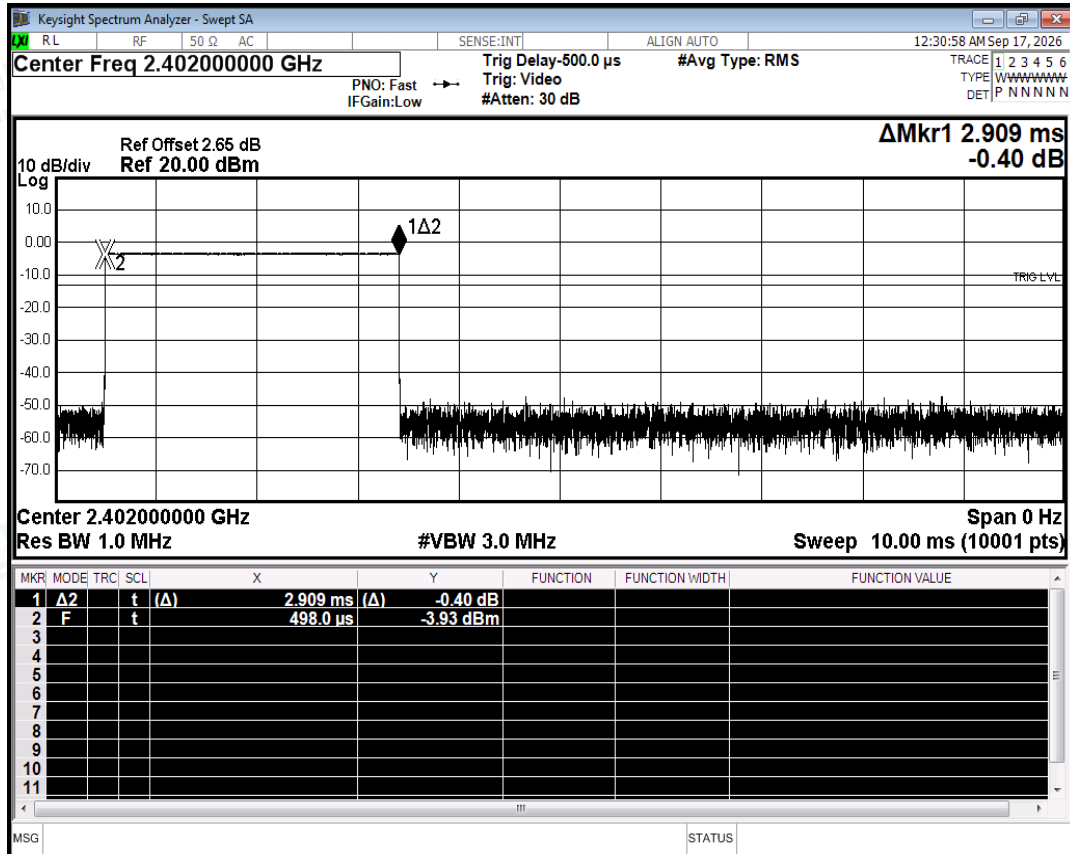
CFS NVNT 3-DH5 2402MHz Ant1



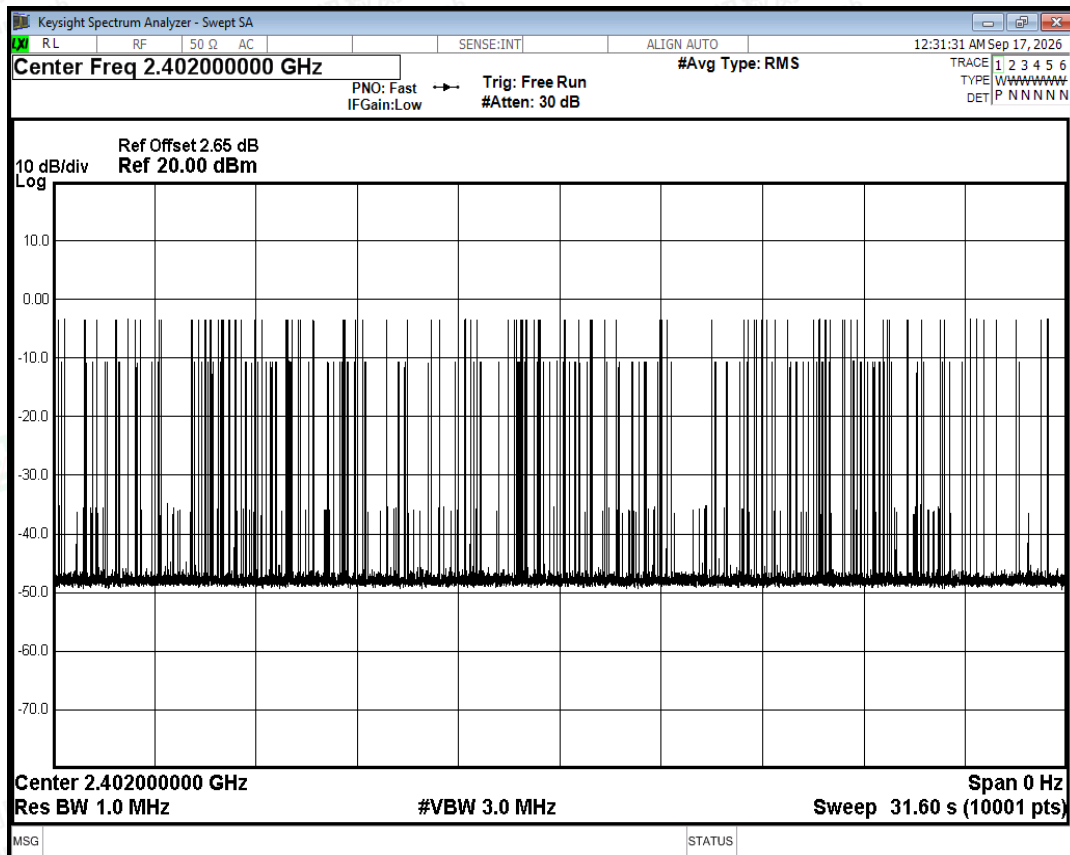
A.4 Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.909	285.082	98	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.897	315.773	109	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.896	335.936	116	31600	400	Pass

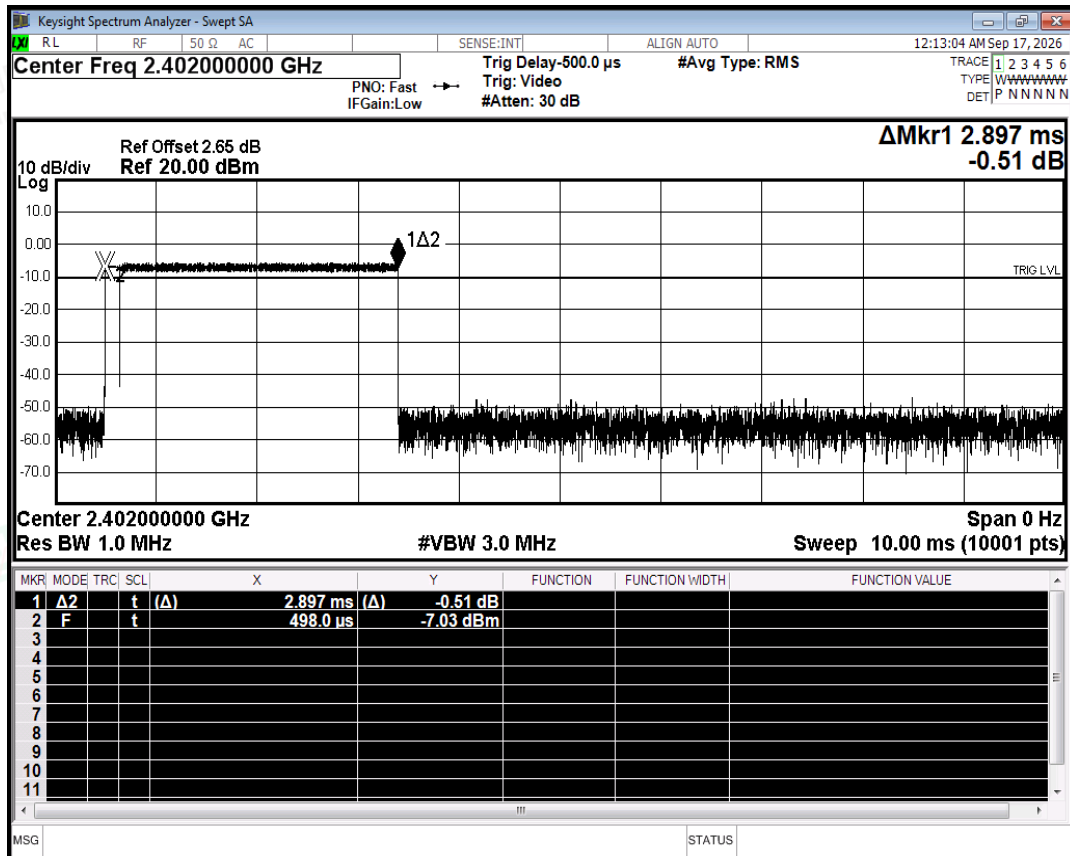




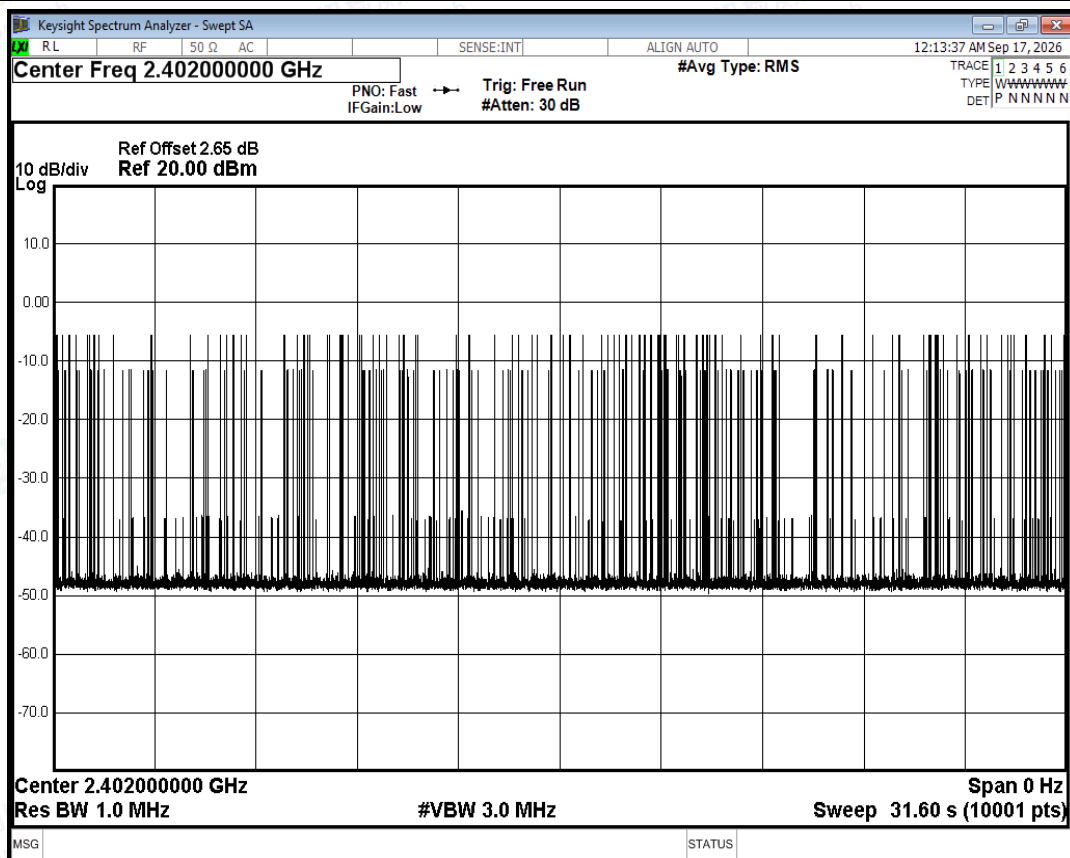
Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



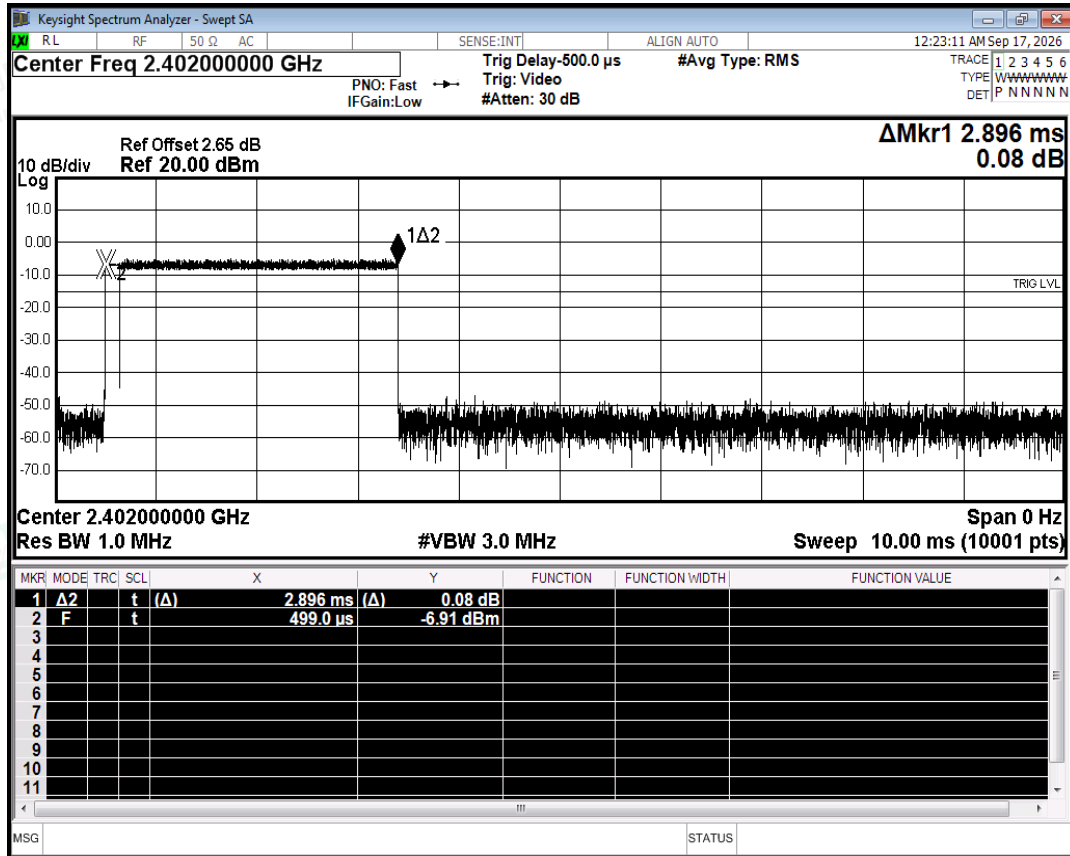
Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



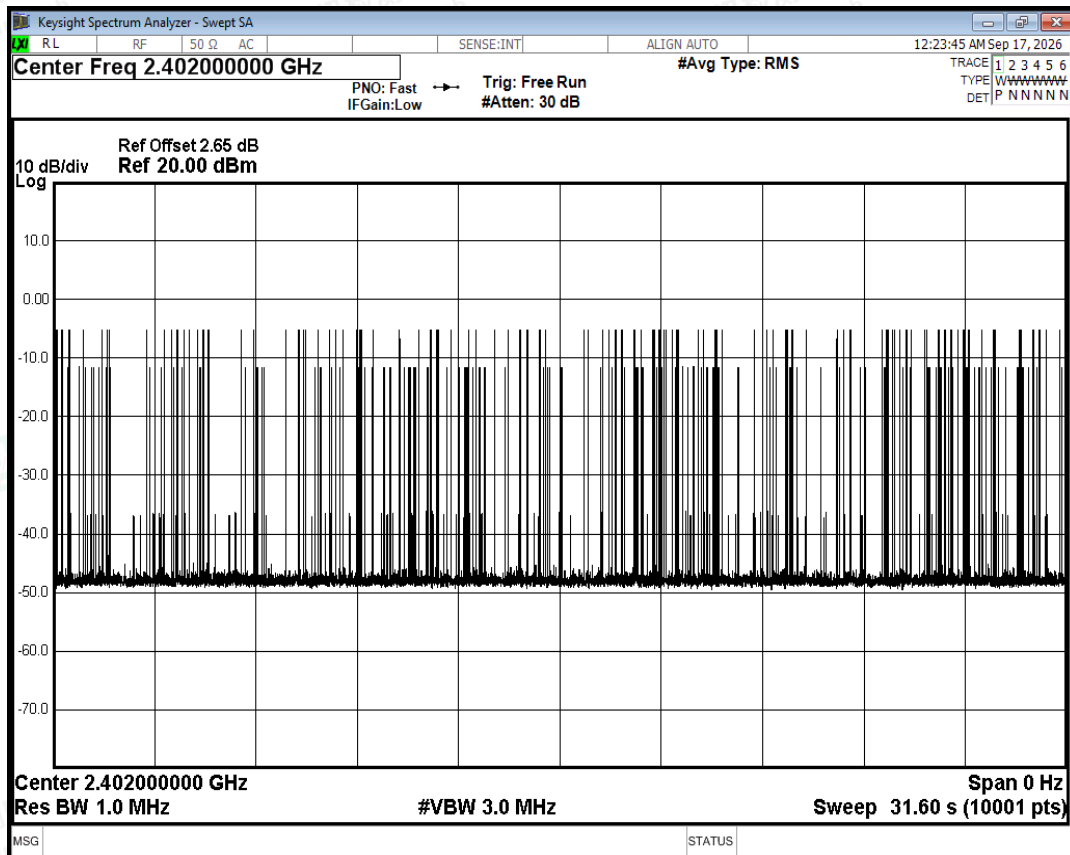
Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



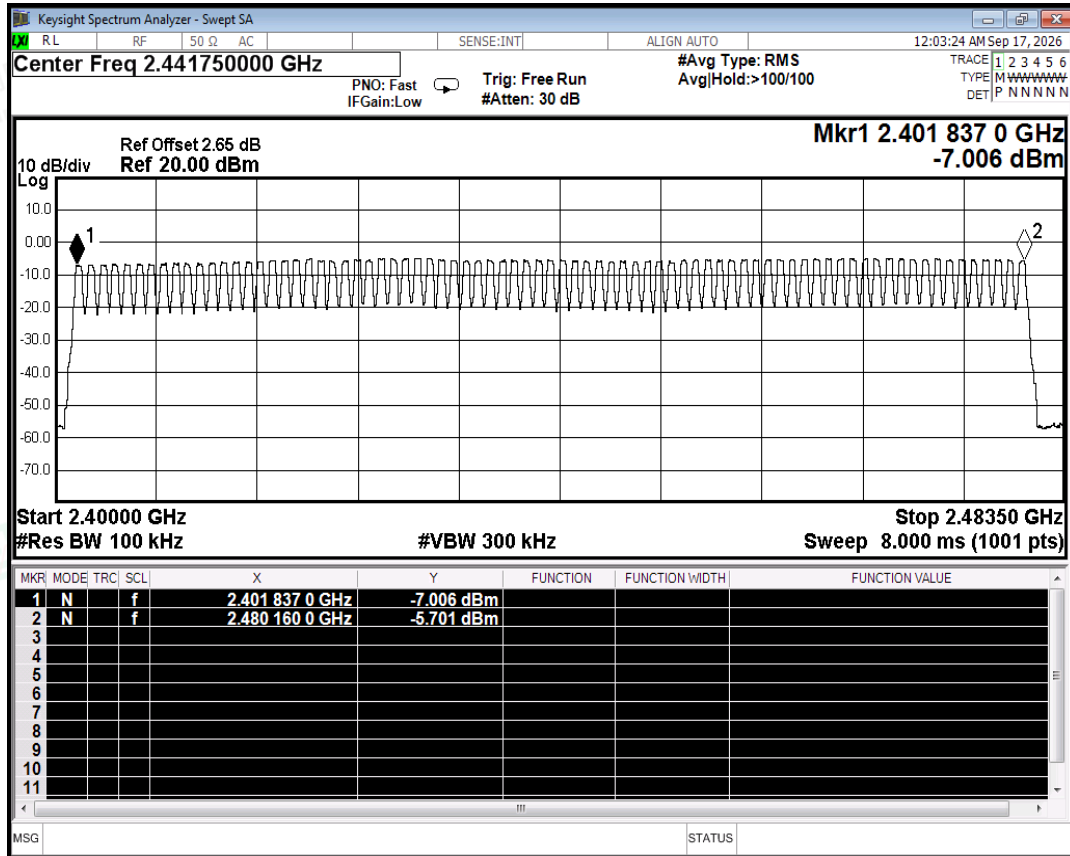
Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated



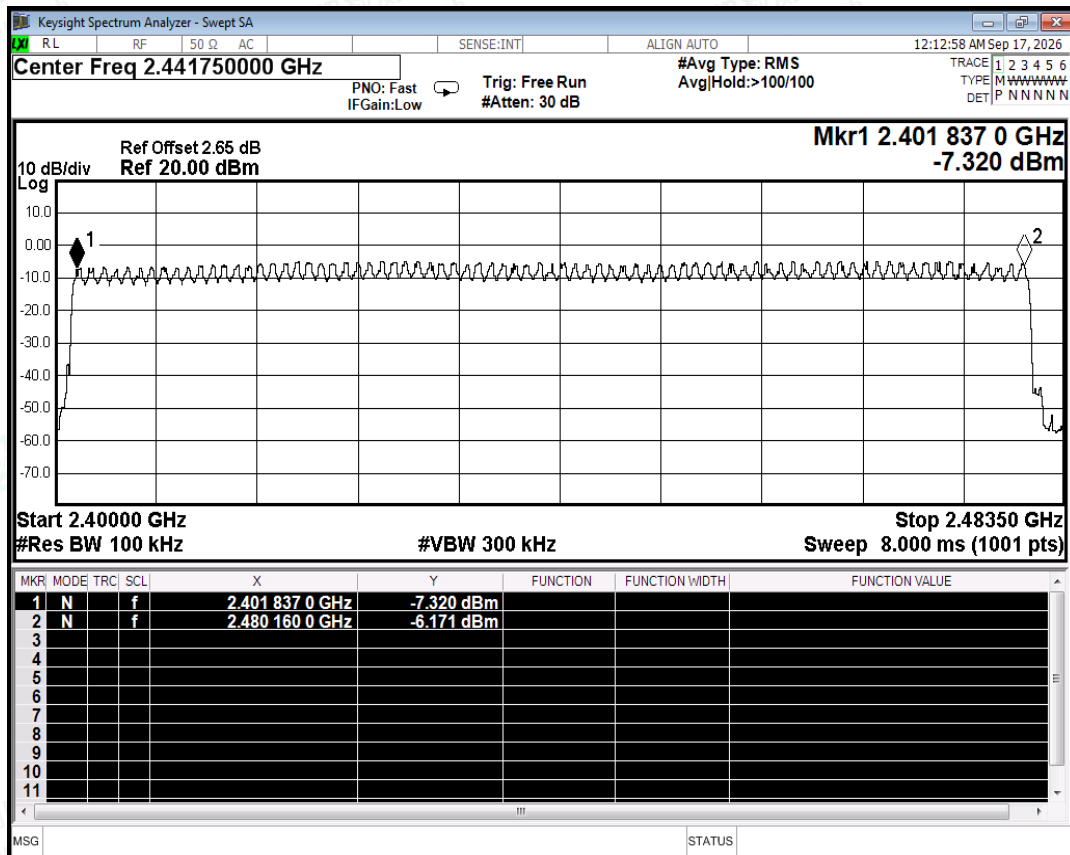
A.5 Number of Hopping Channel

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

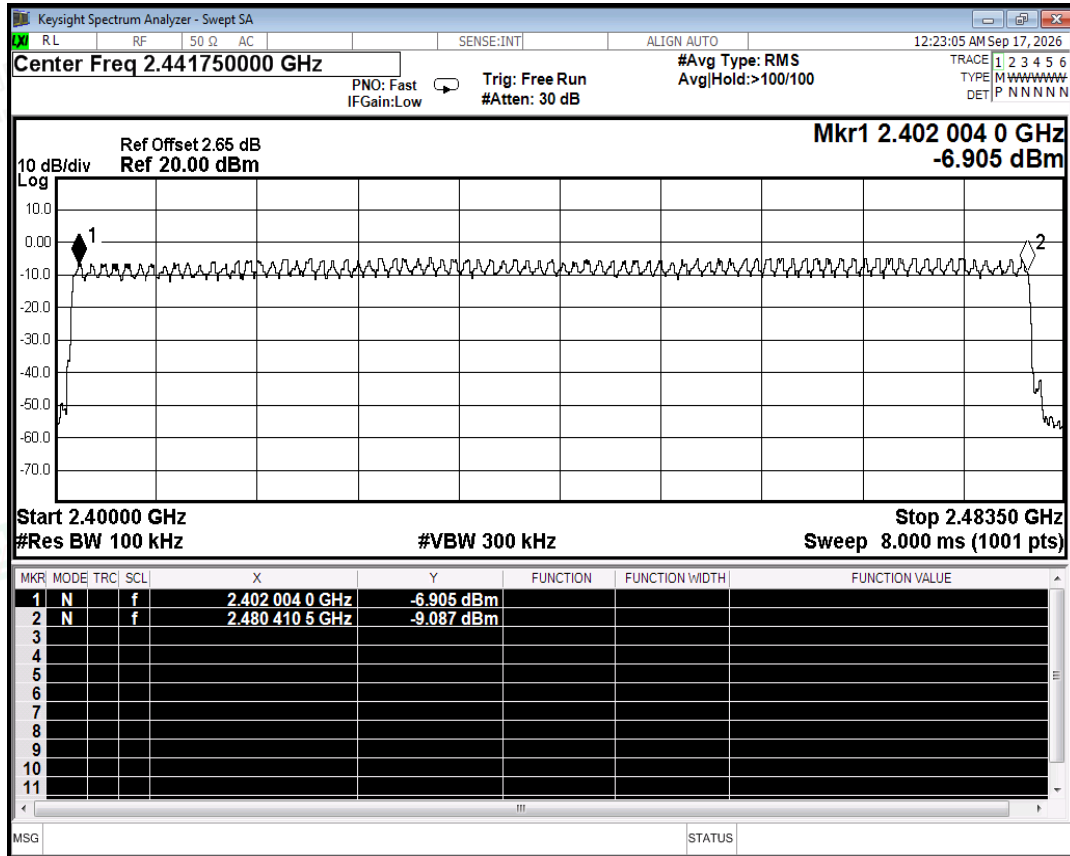




Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1

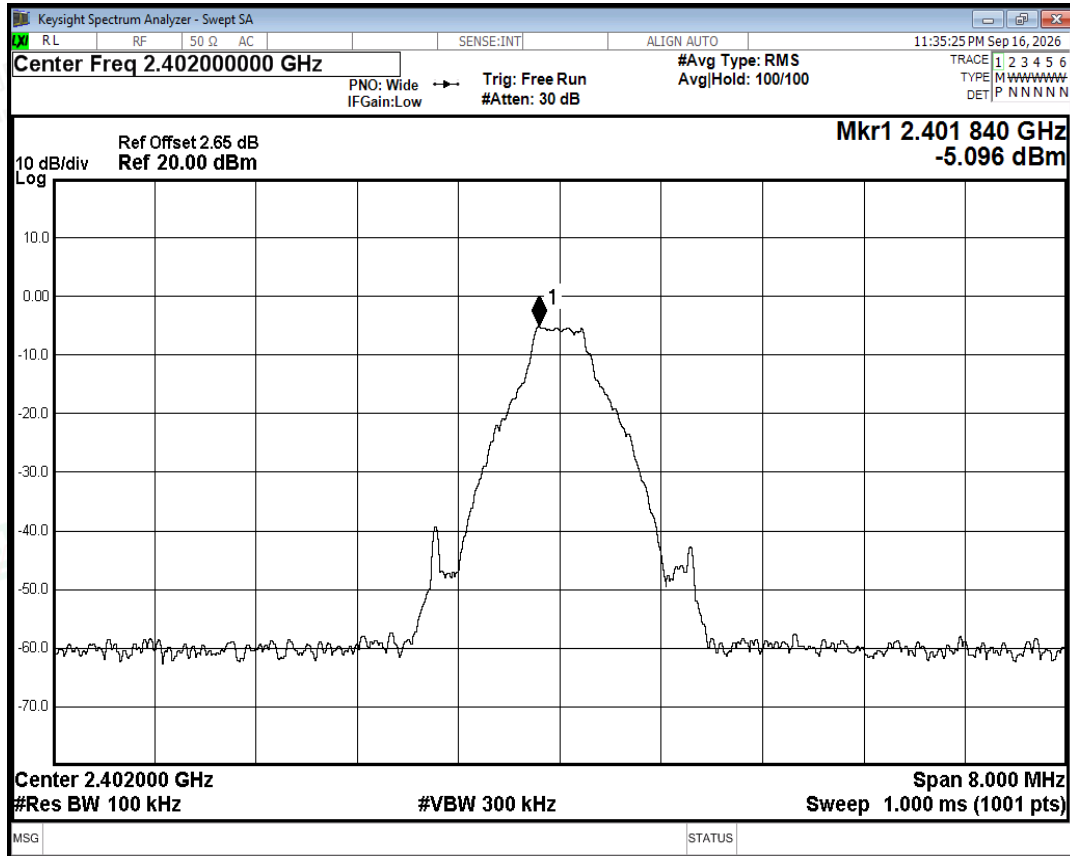


Hopping No. NVNT 3-DH5 2402MHz Ant1

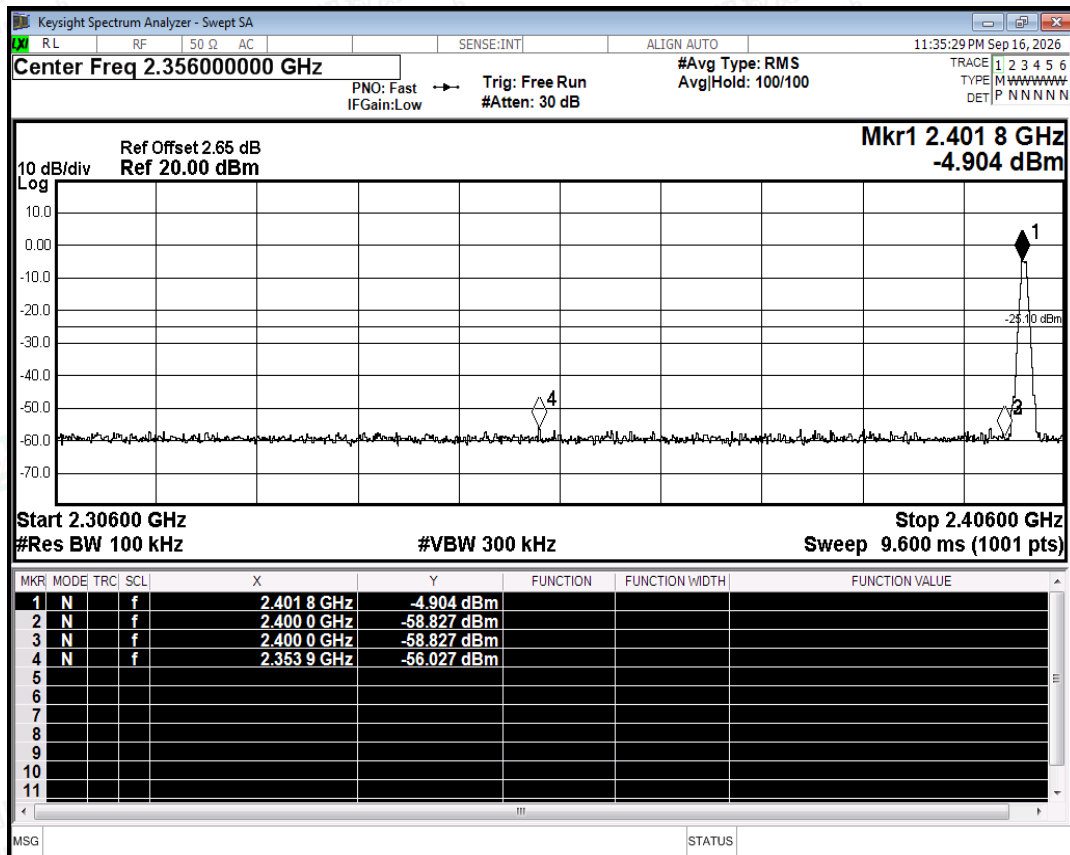


A.6 Band Edge

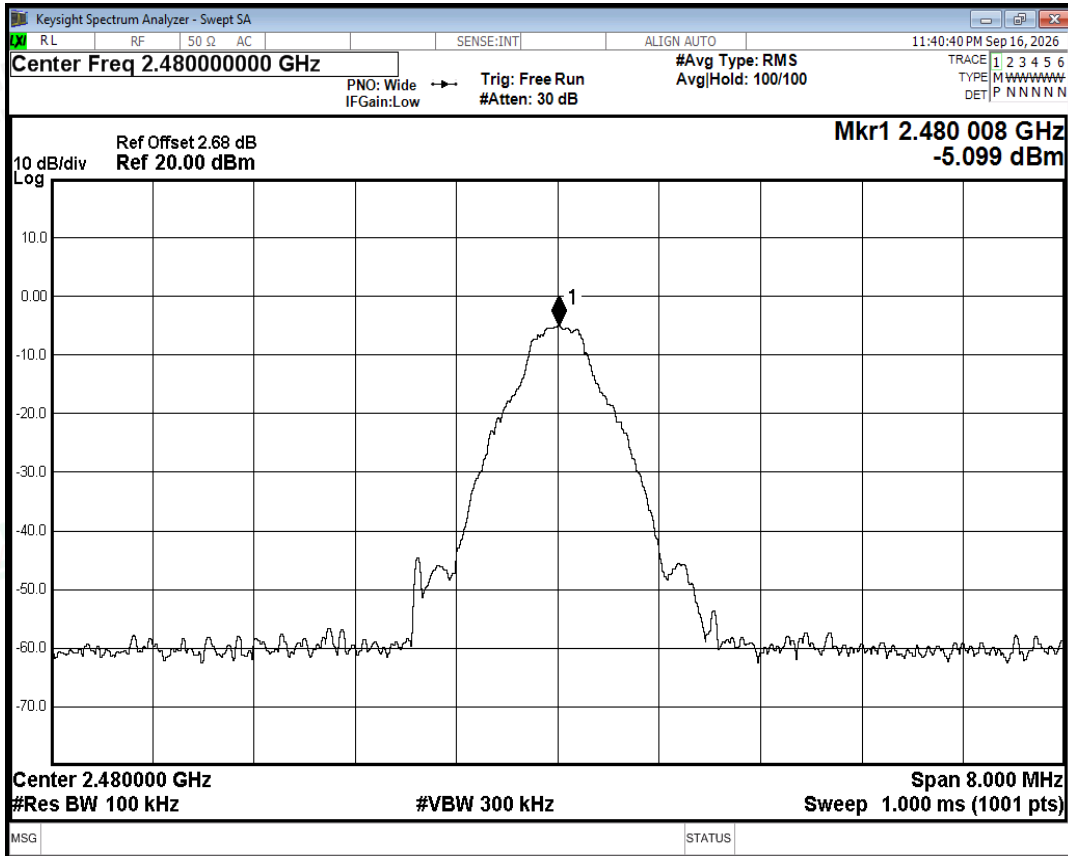
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-50.92	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-51.66	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-49.71	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-51.26	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-49.25	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-50.05	-20	Pass



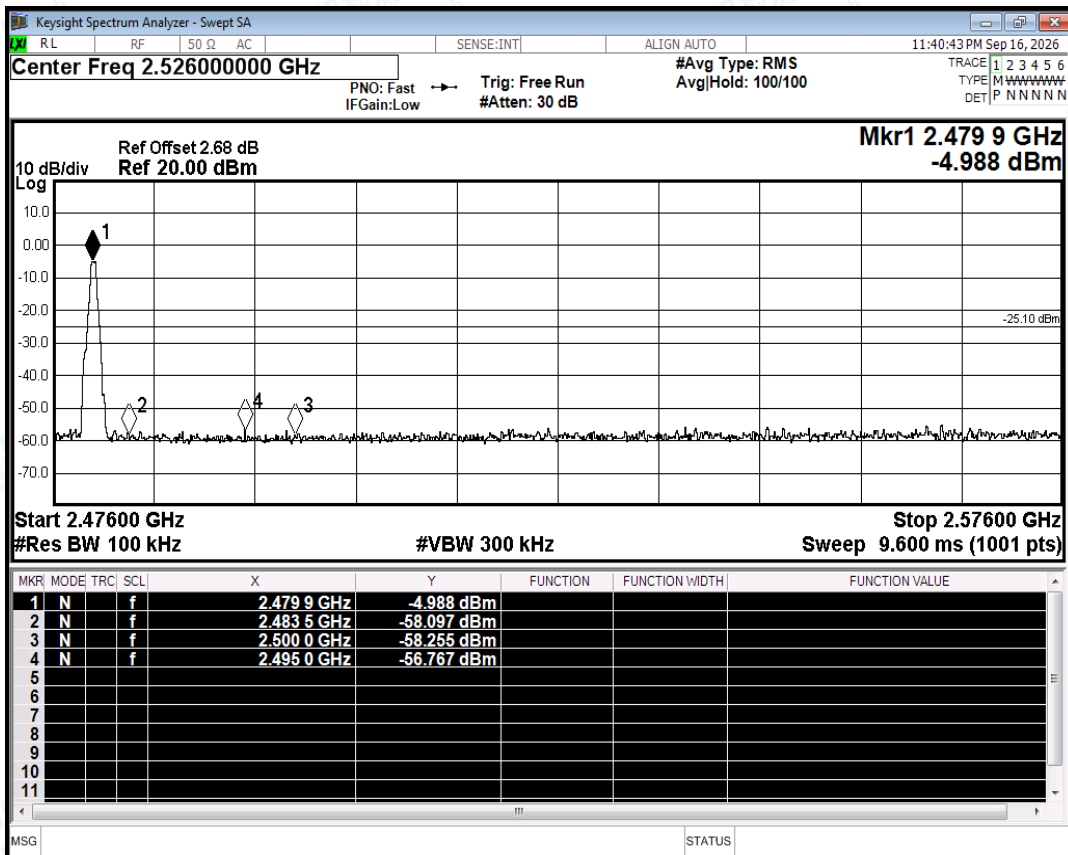
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



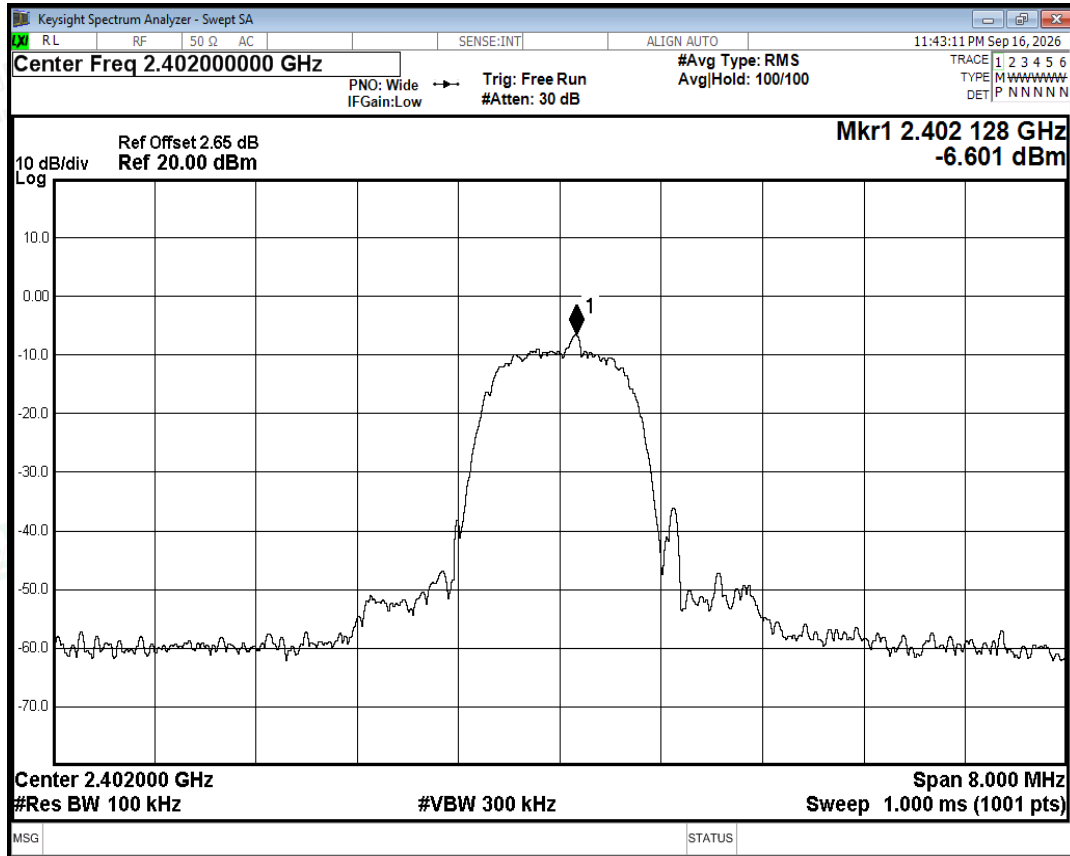
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



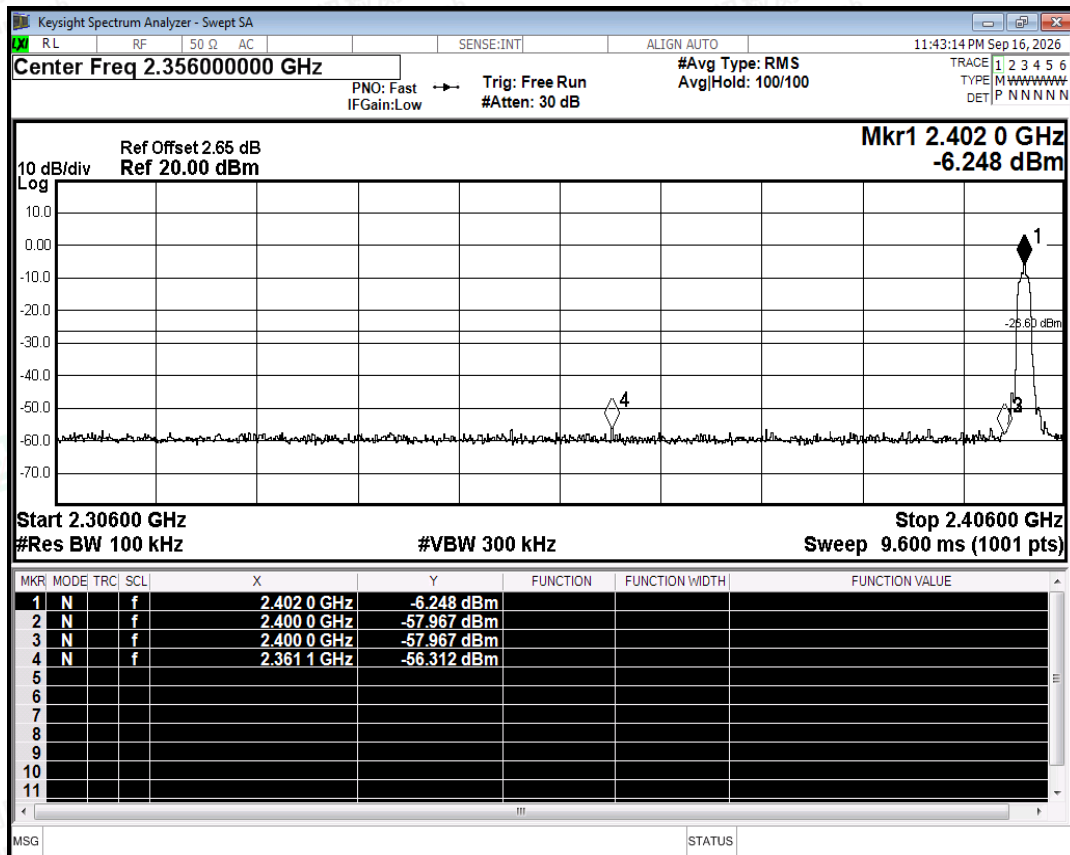
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



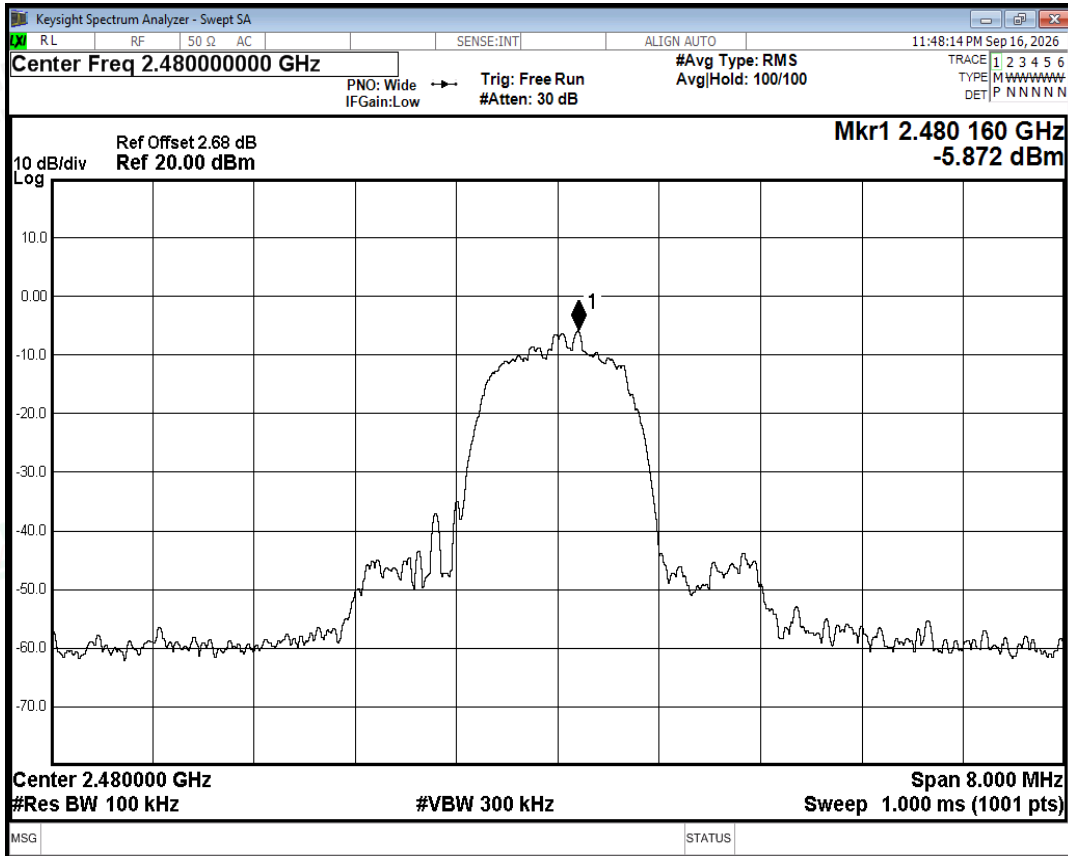
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



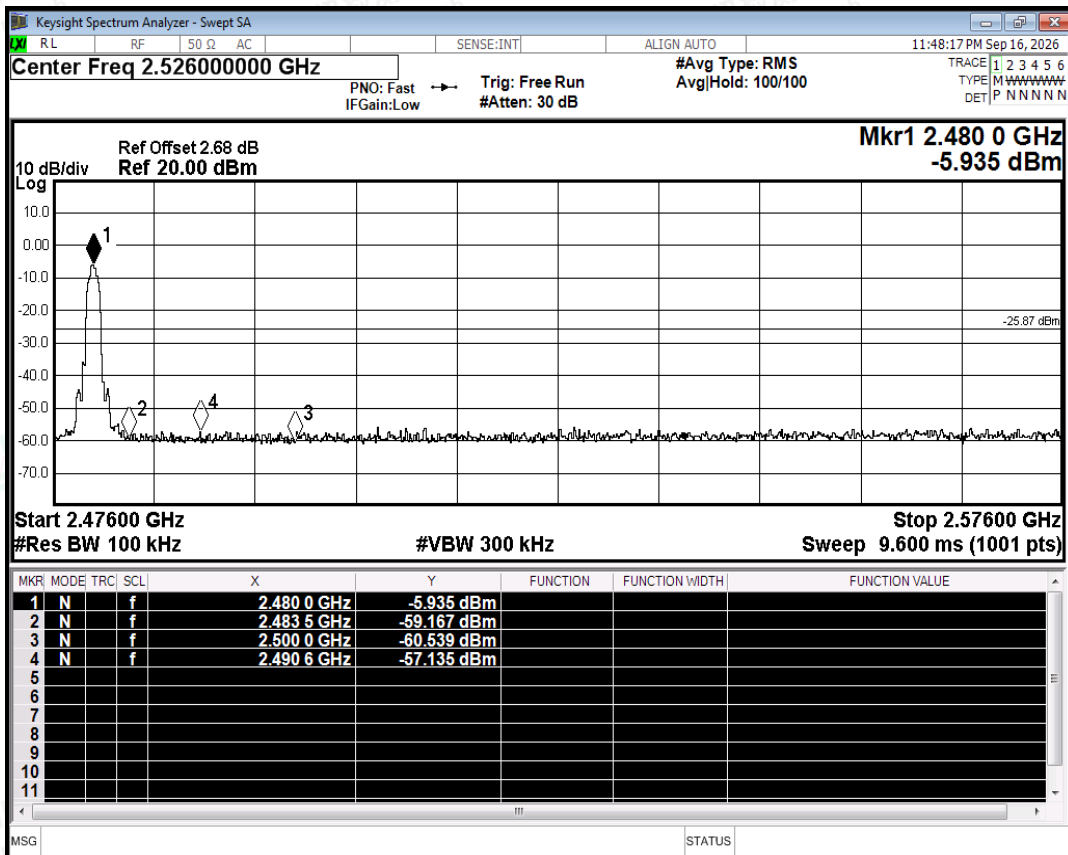
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



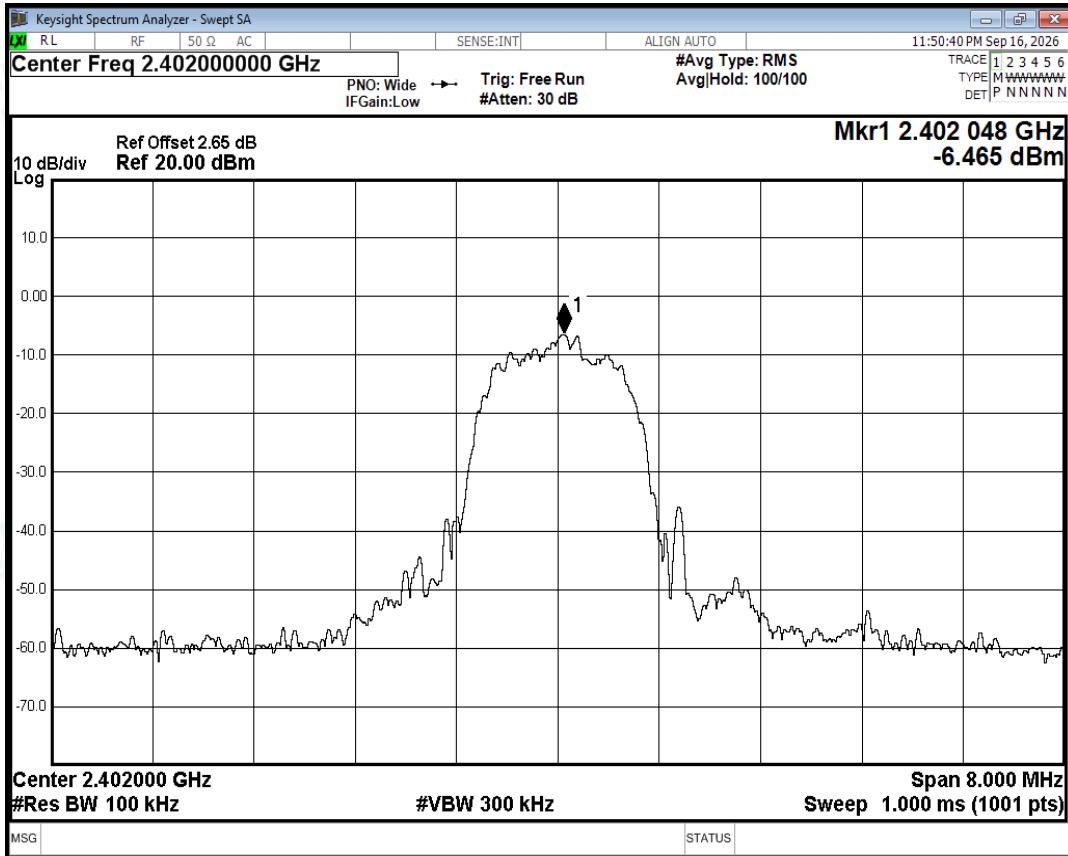
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



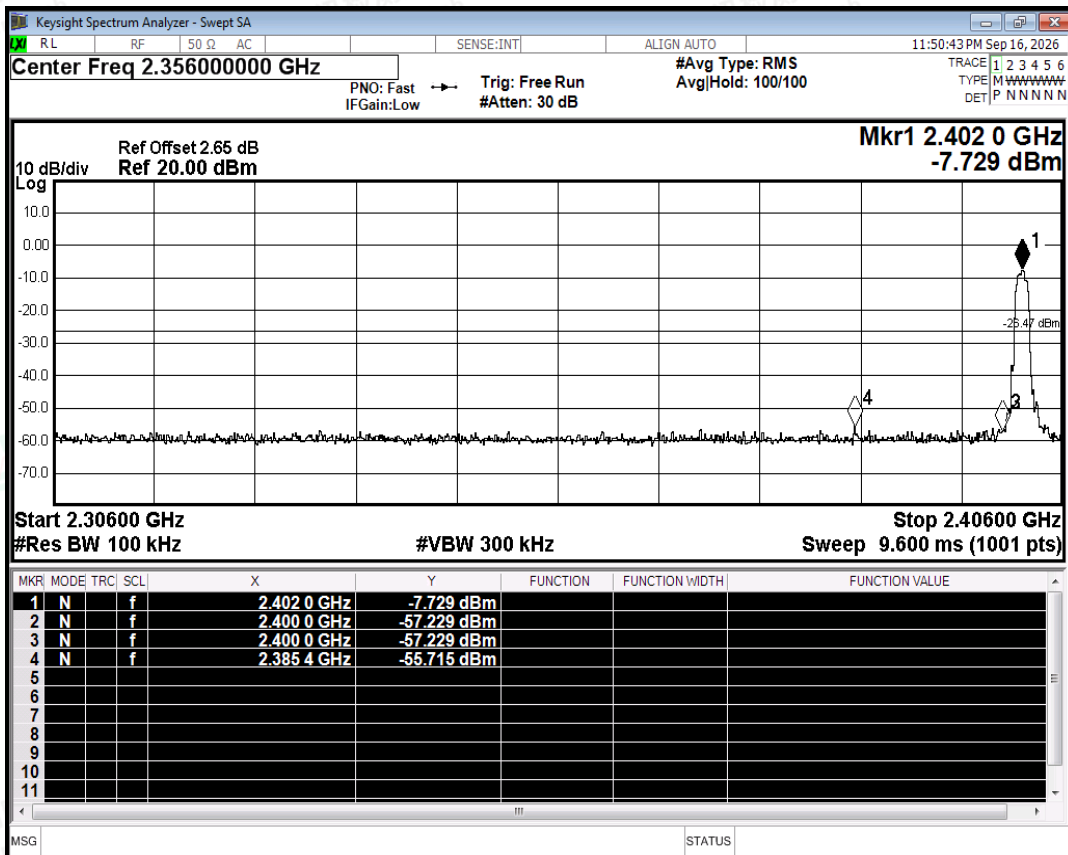
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



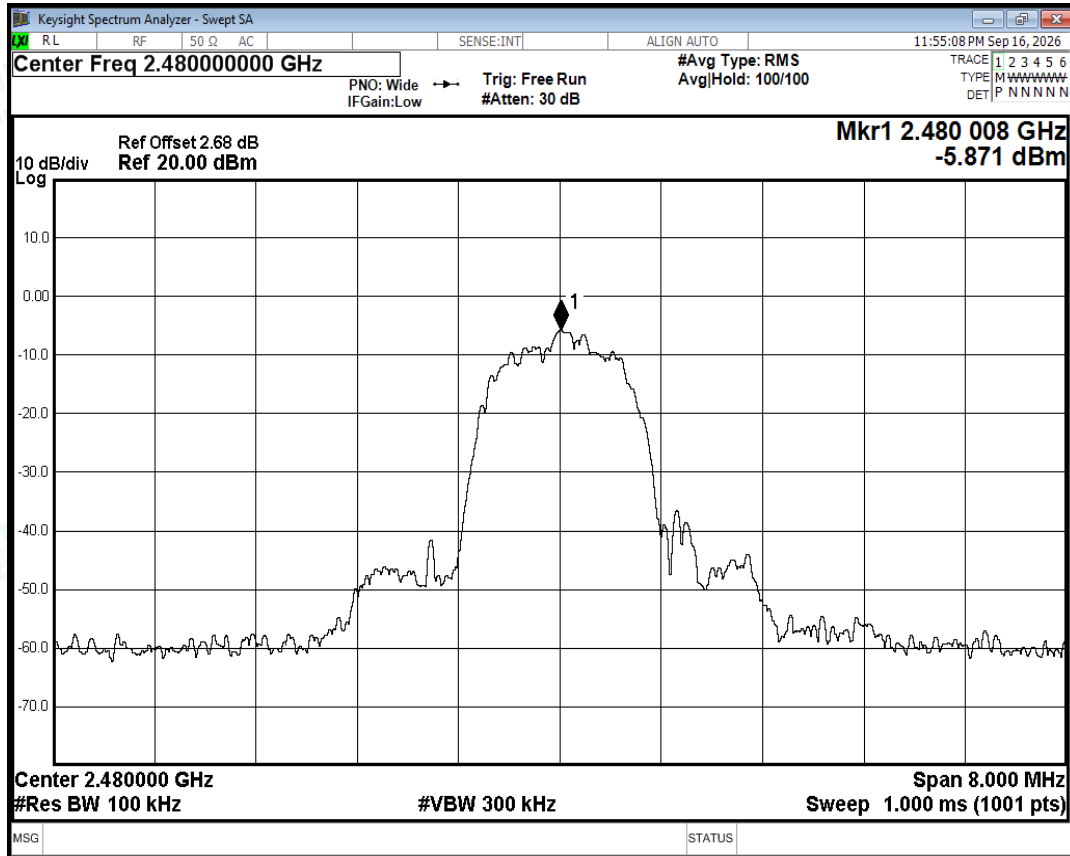
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



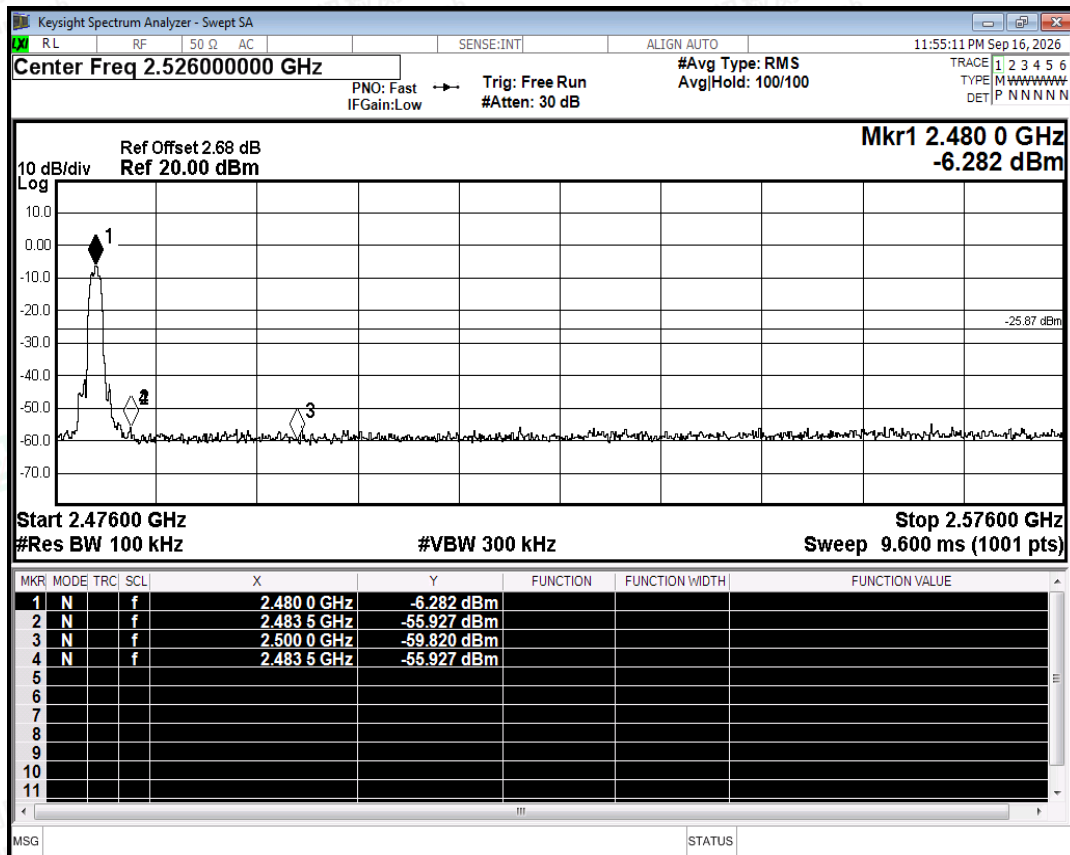
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



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



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

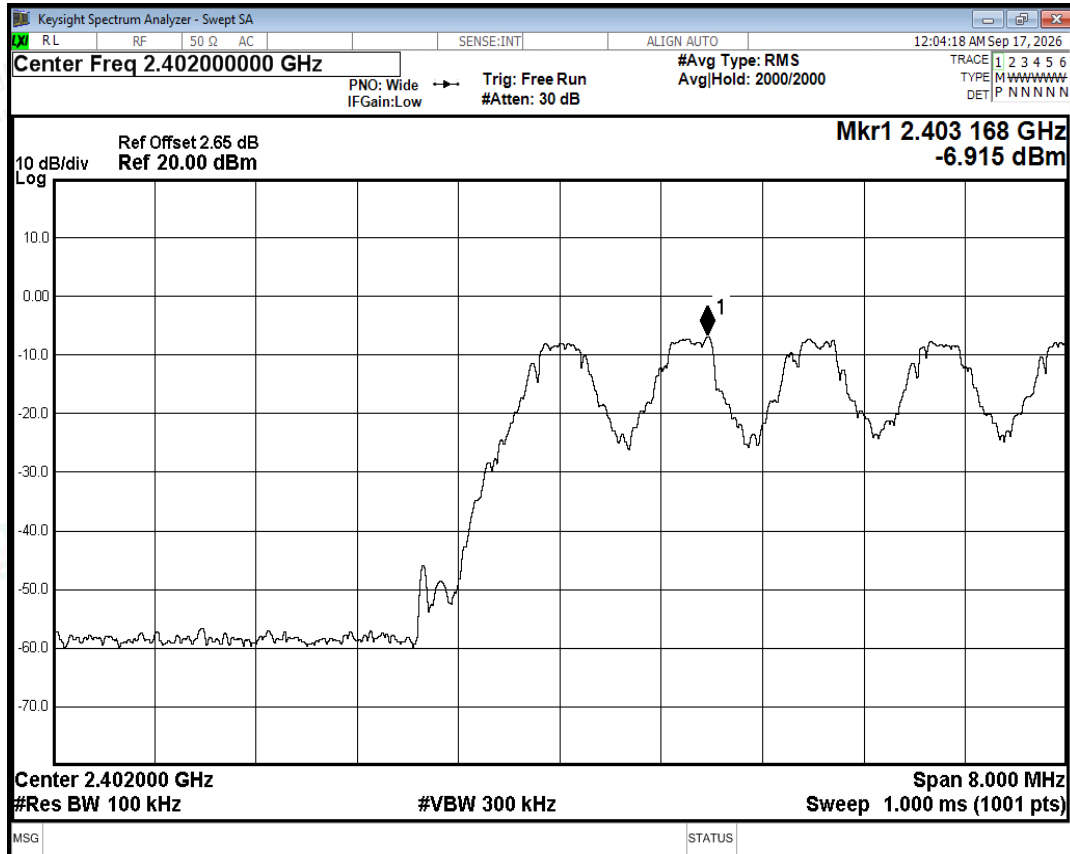


Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission

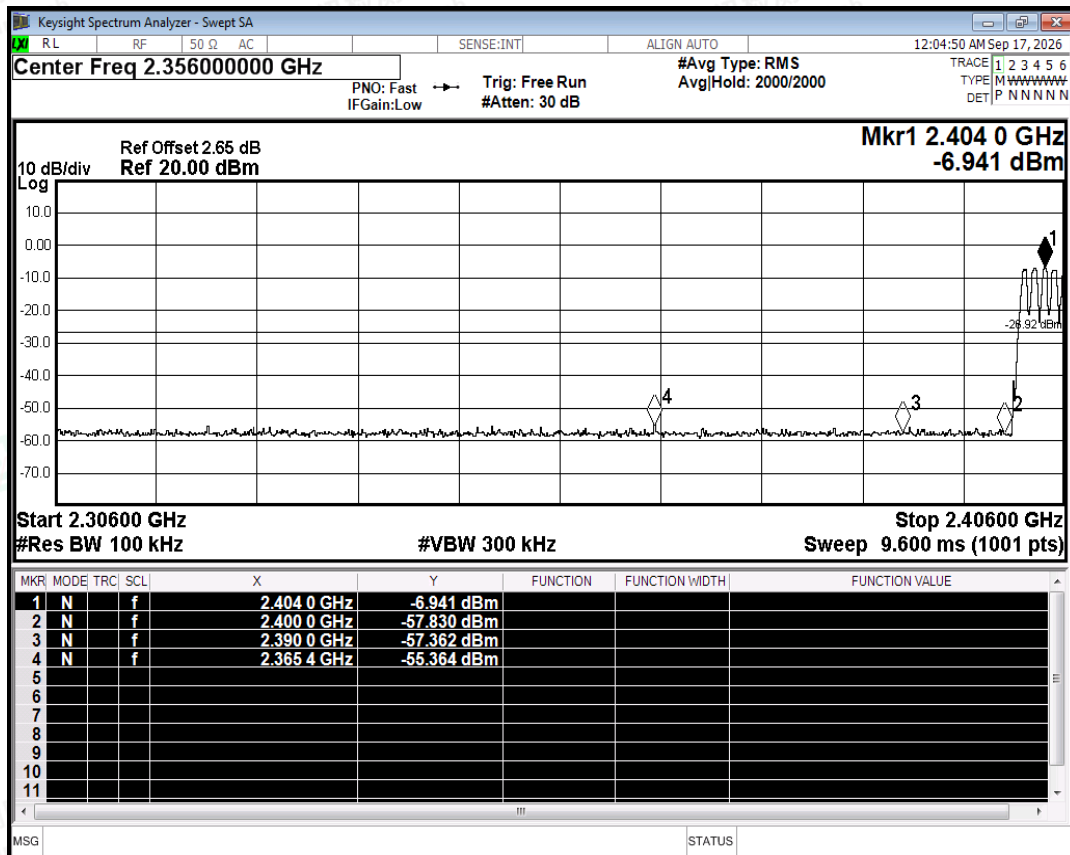


(Hopping)

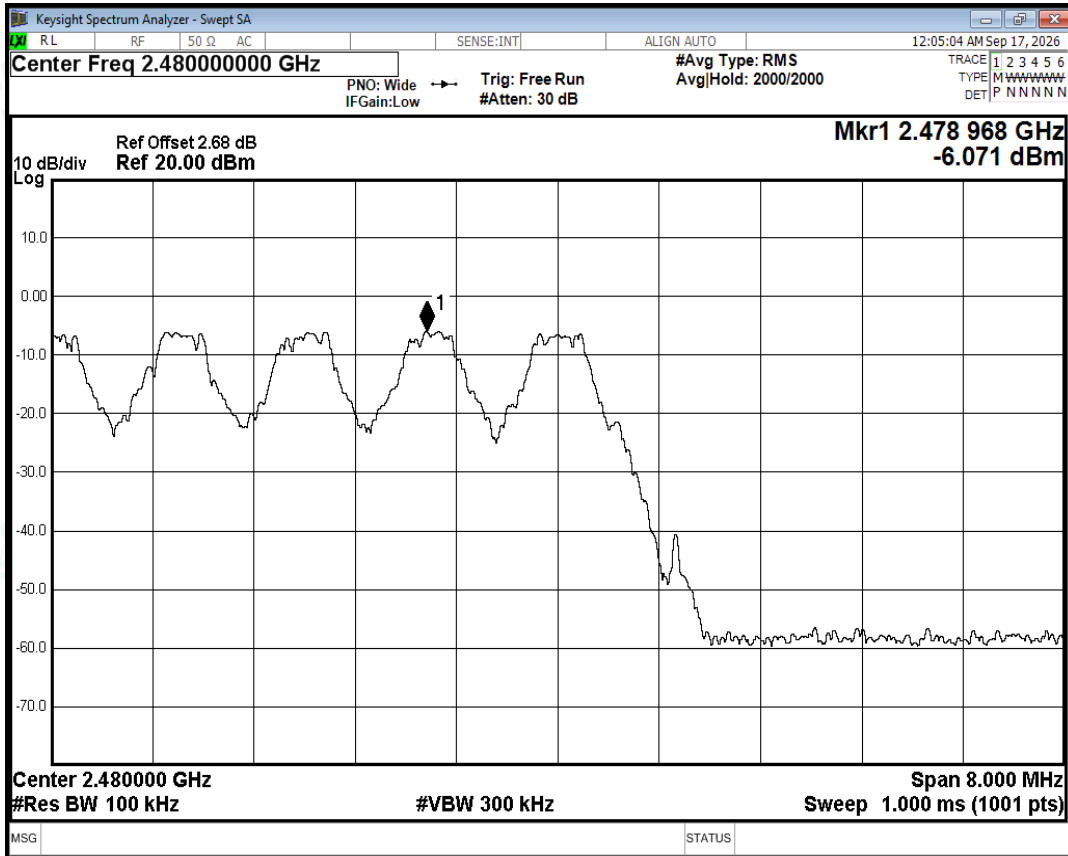
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-48.45	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-49.88	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-48.6	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-49.69	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-48.98	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-49.54	-20	Pass



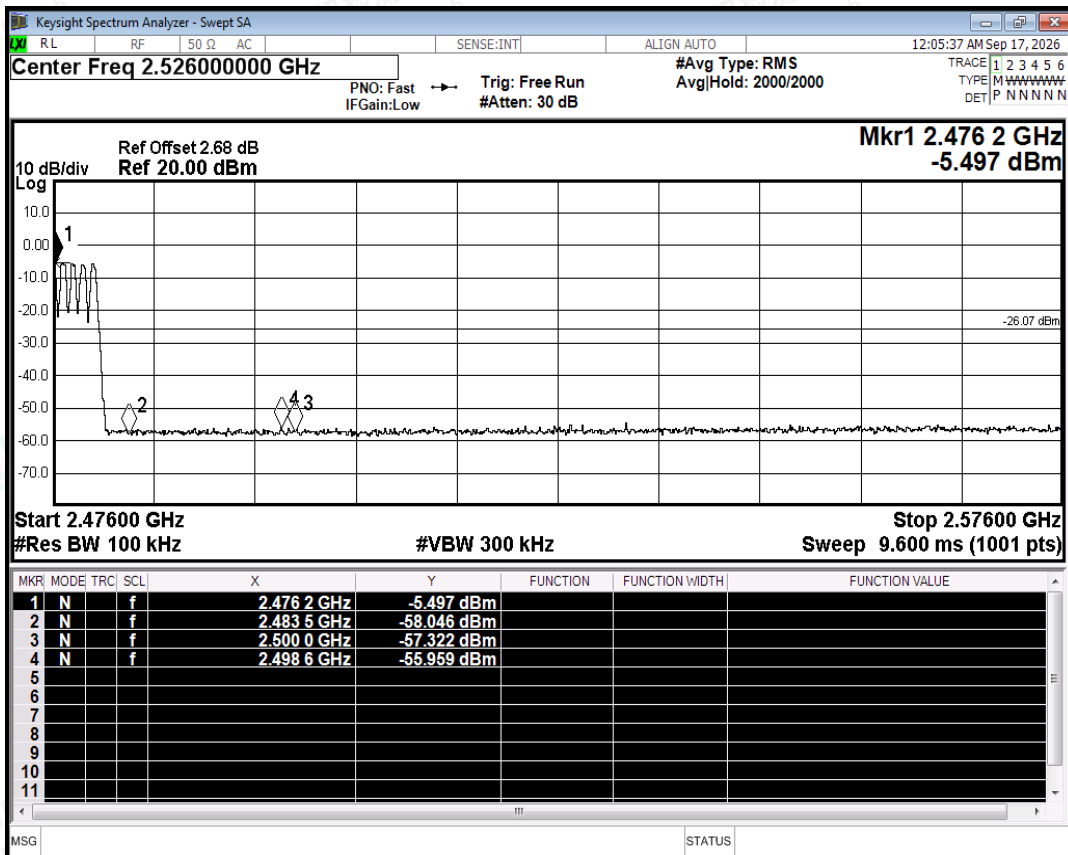
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



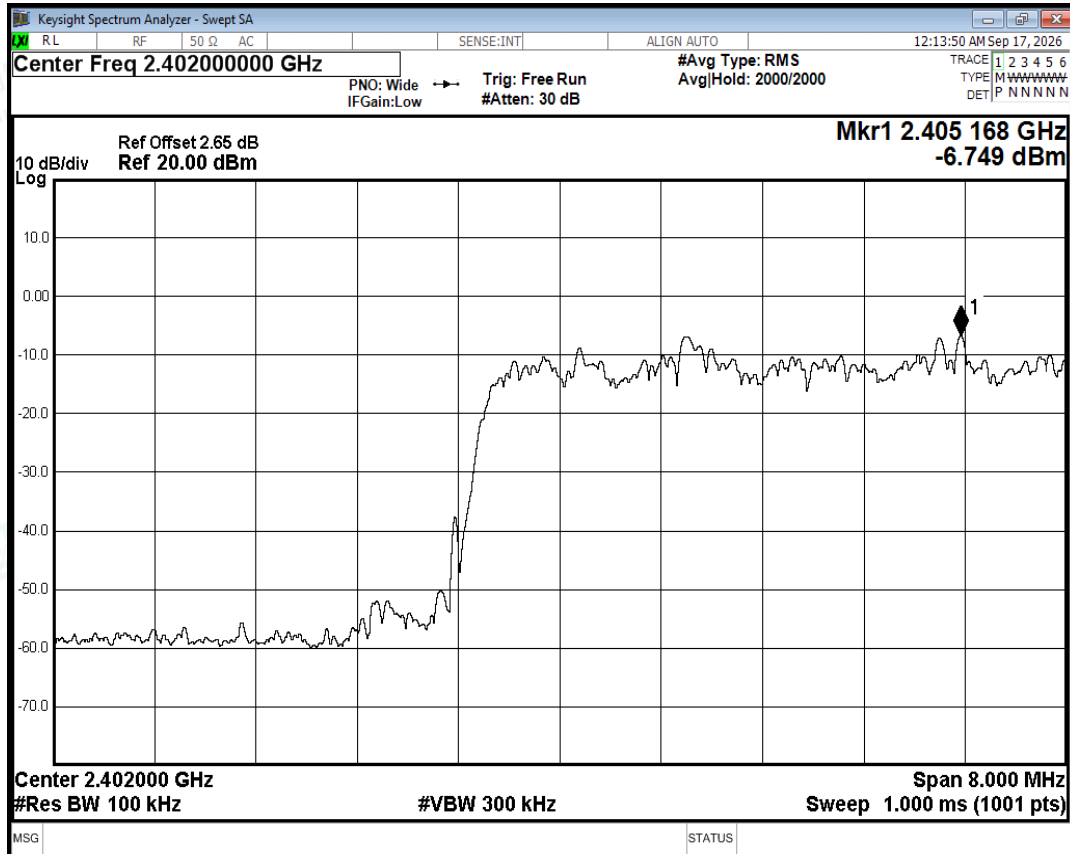
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



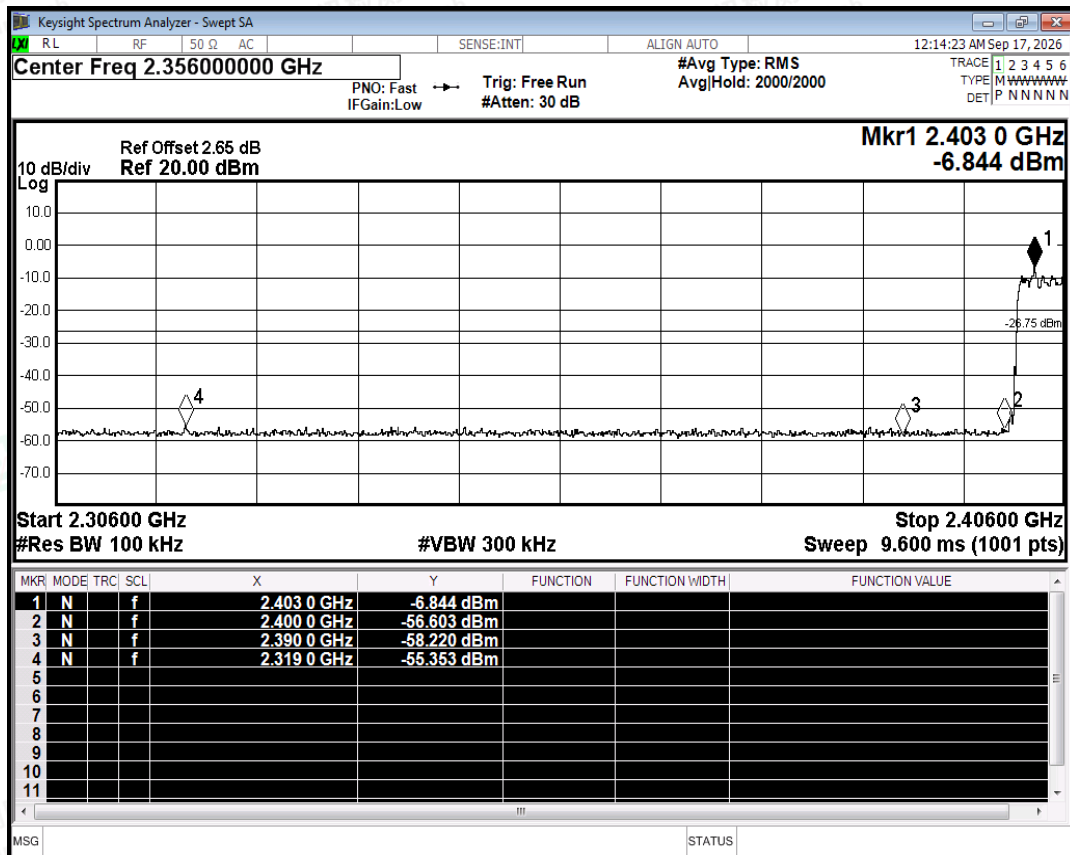
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



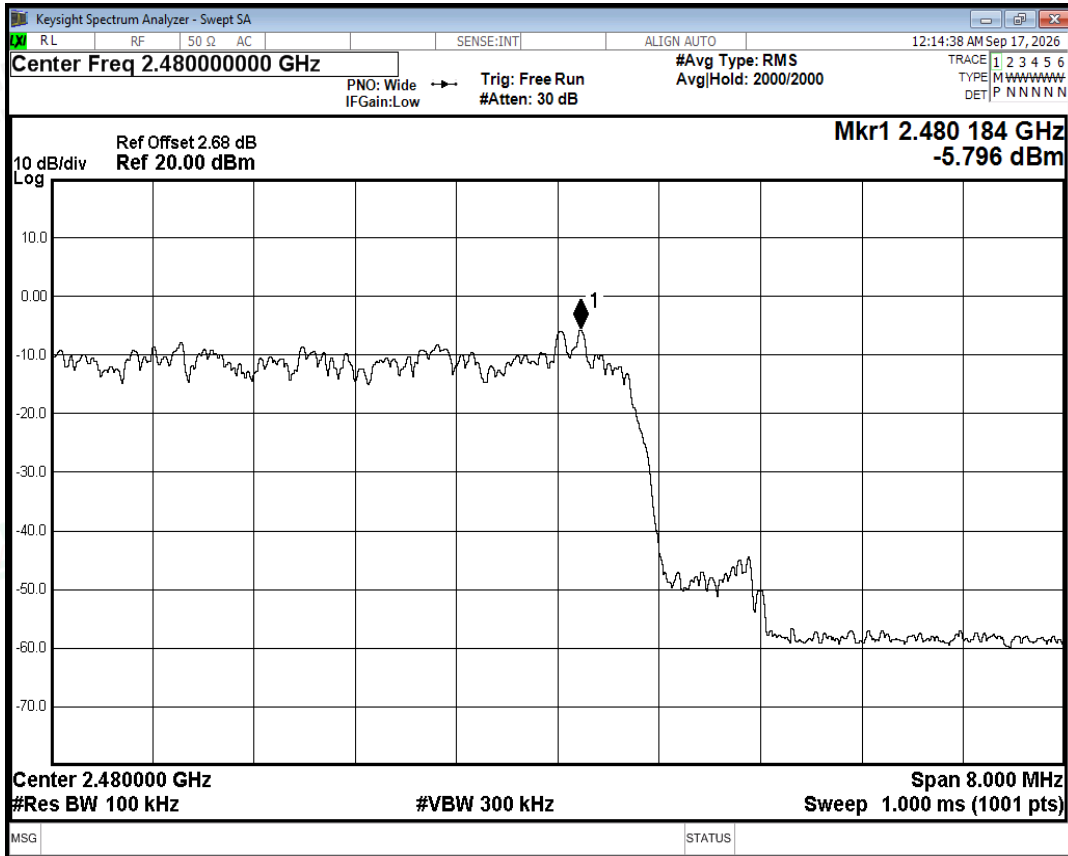
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



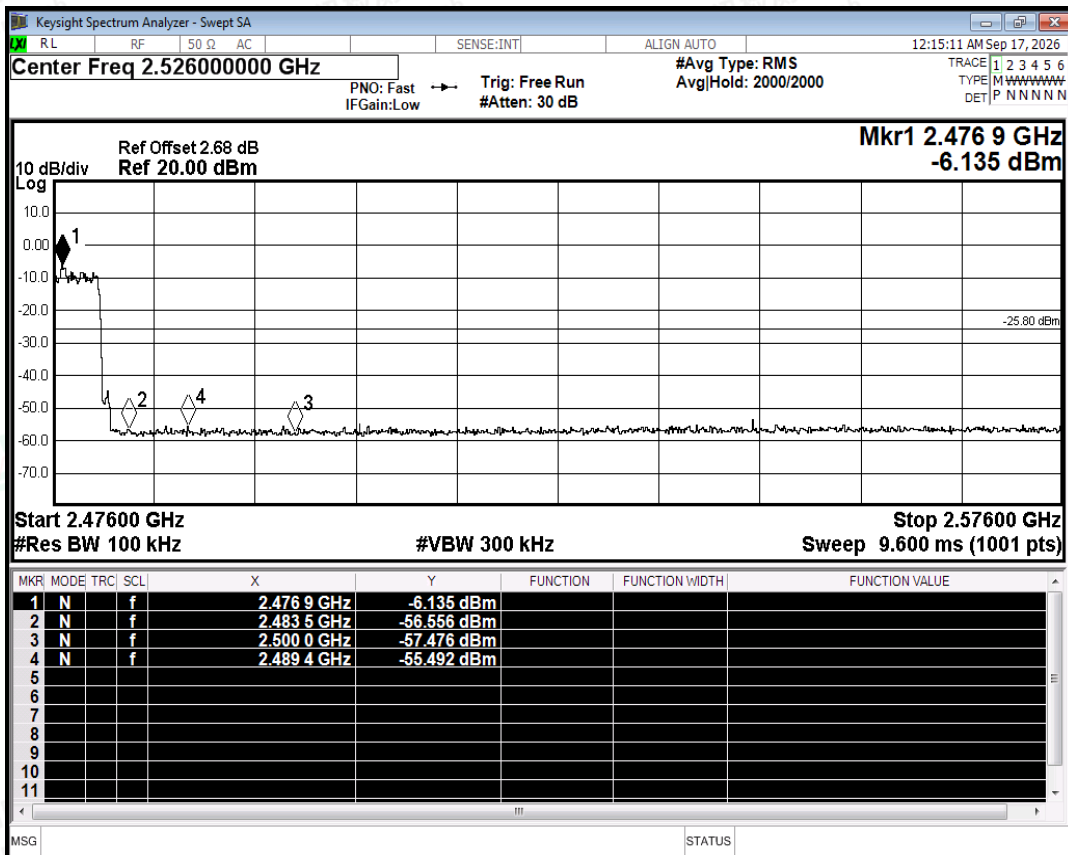
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



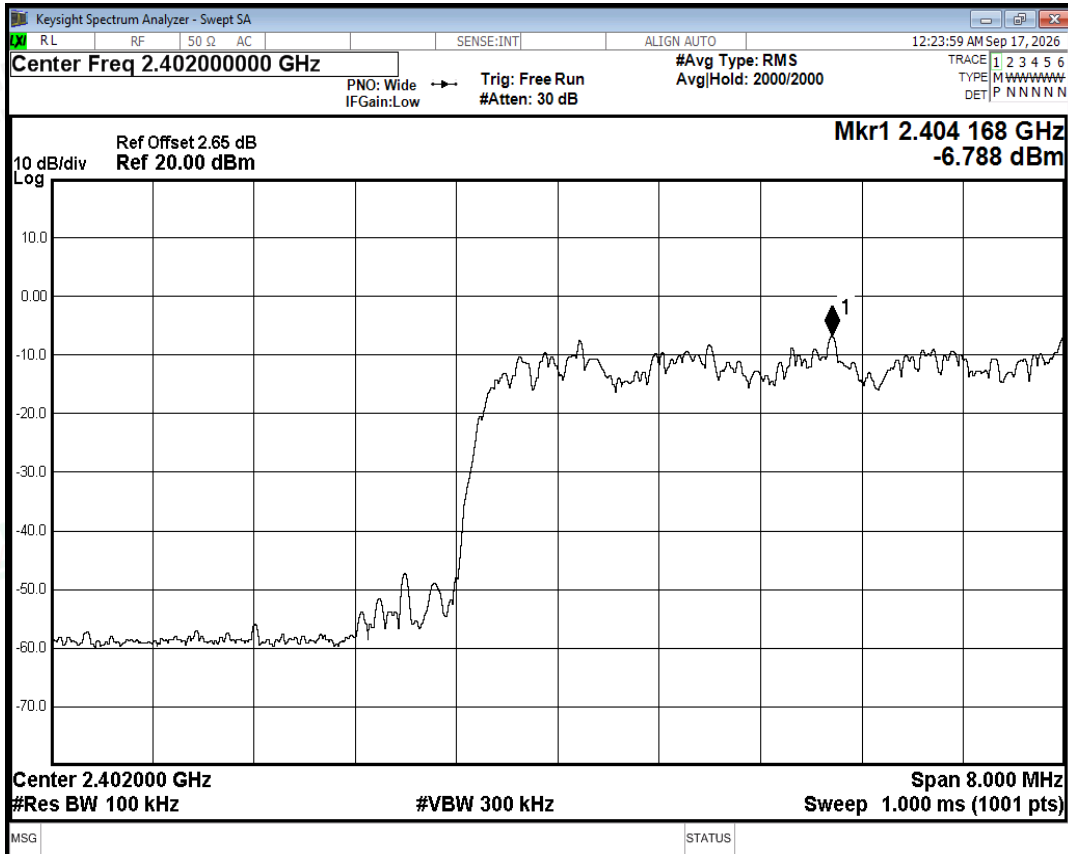
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



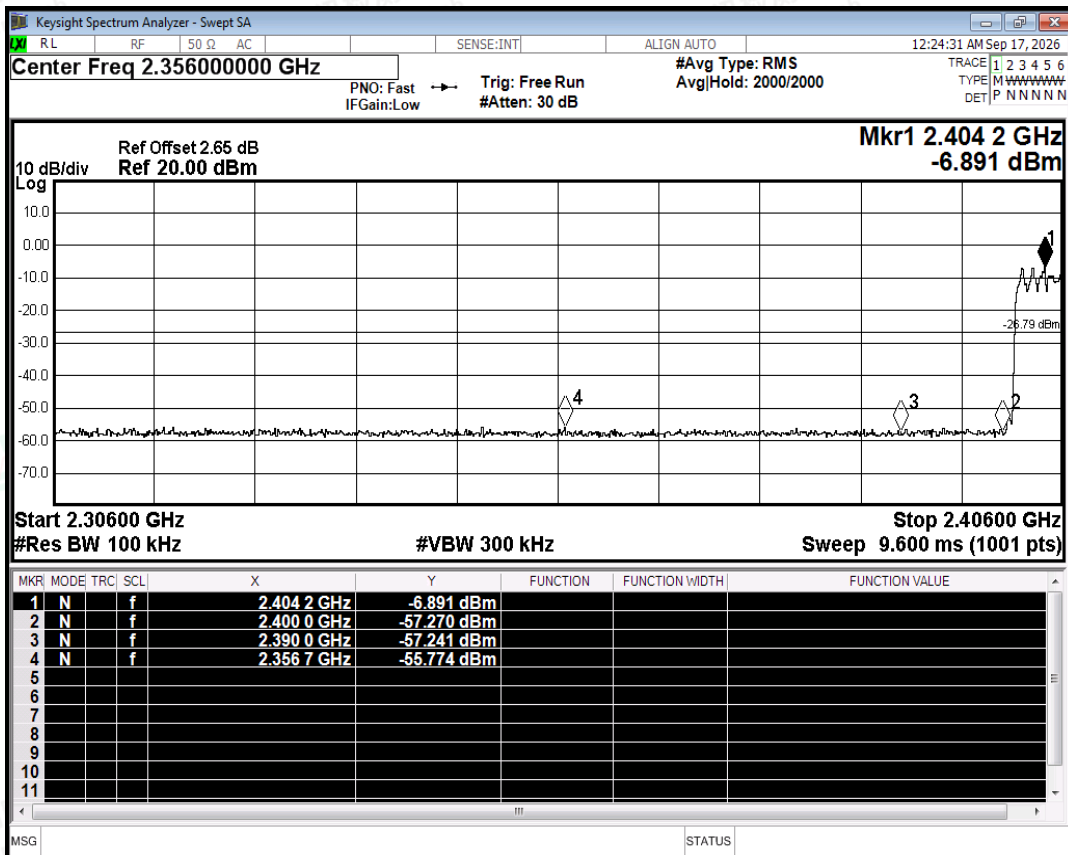
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



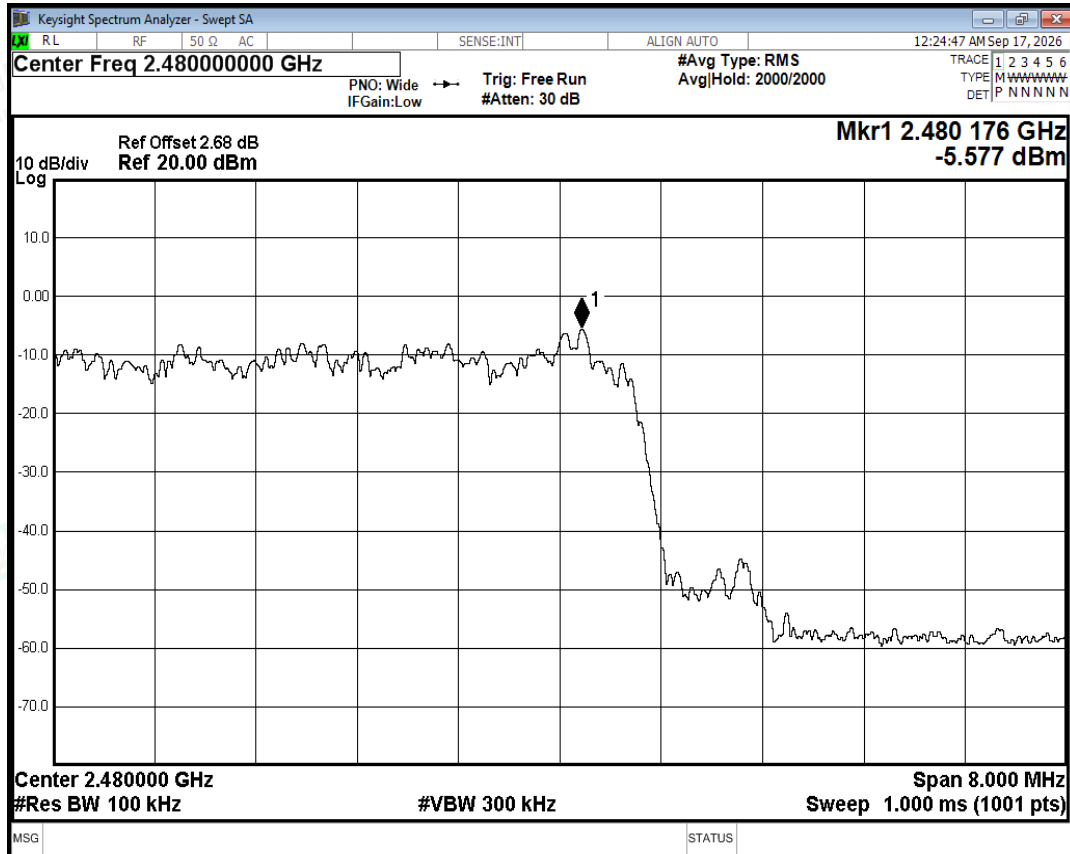
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



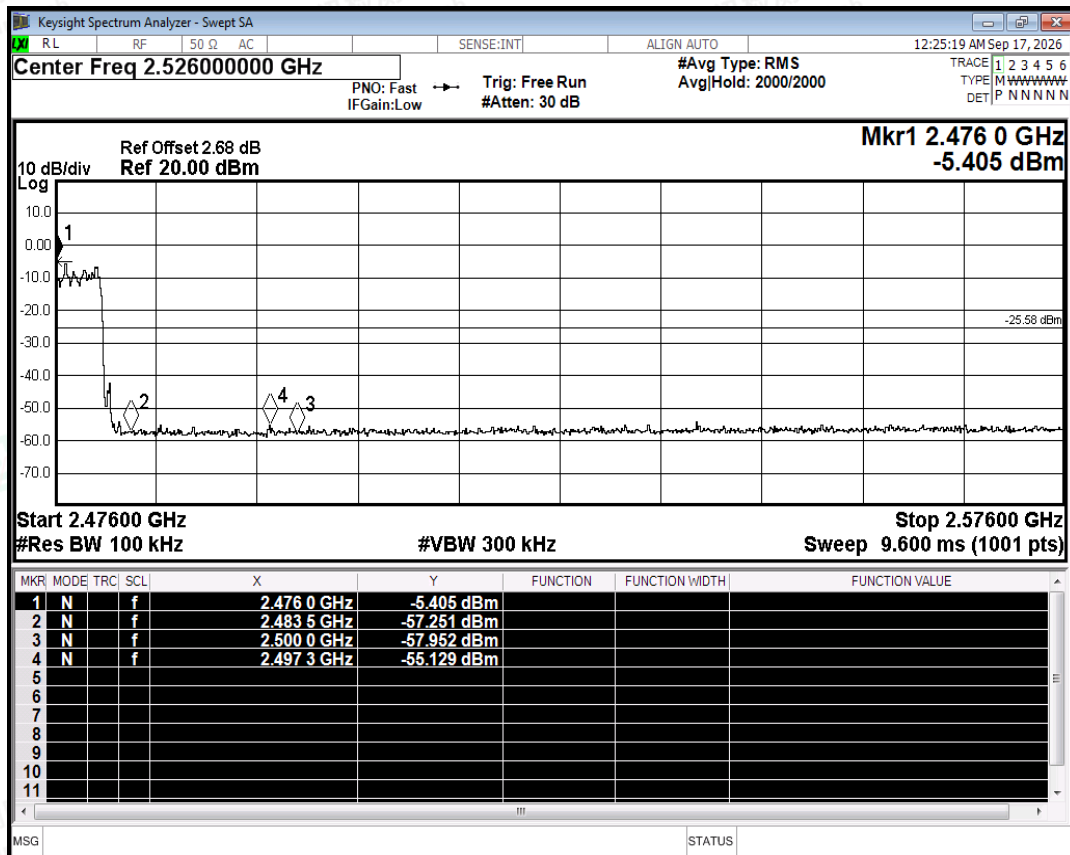
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



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



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

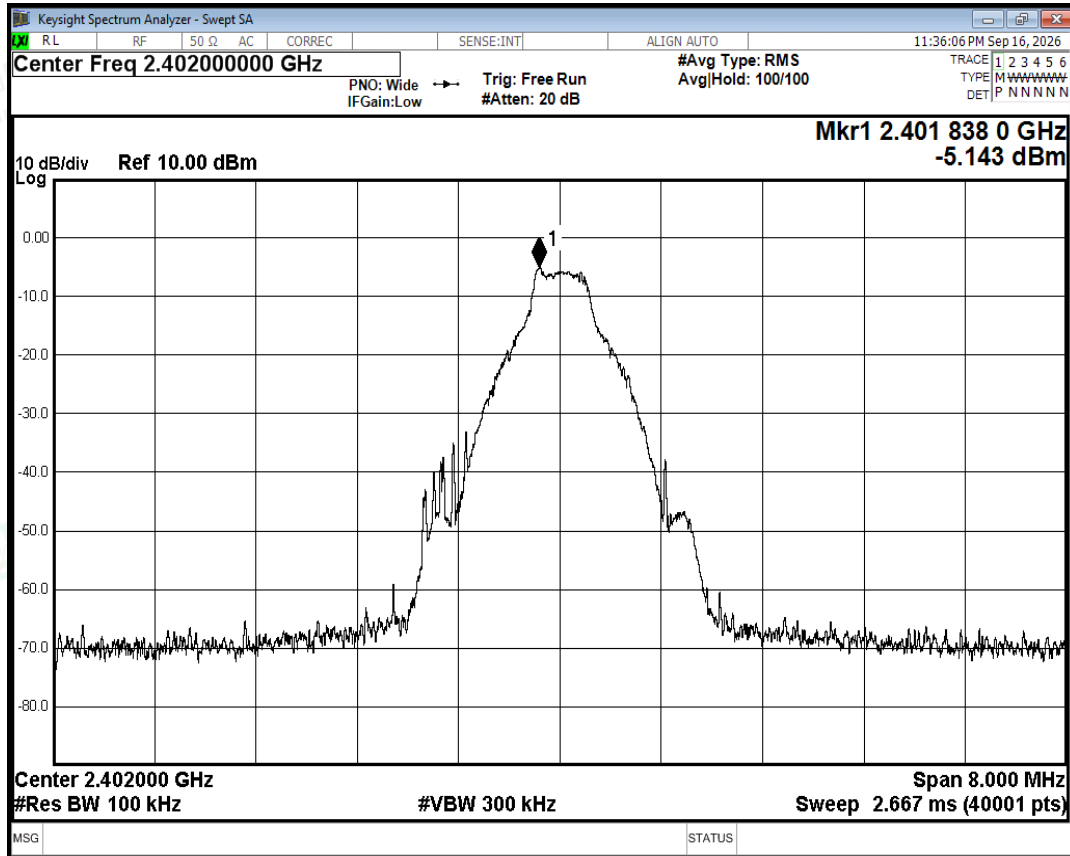


Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission

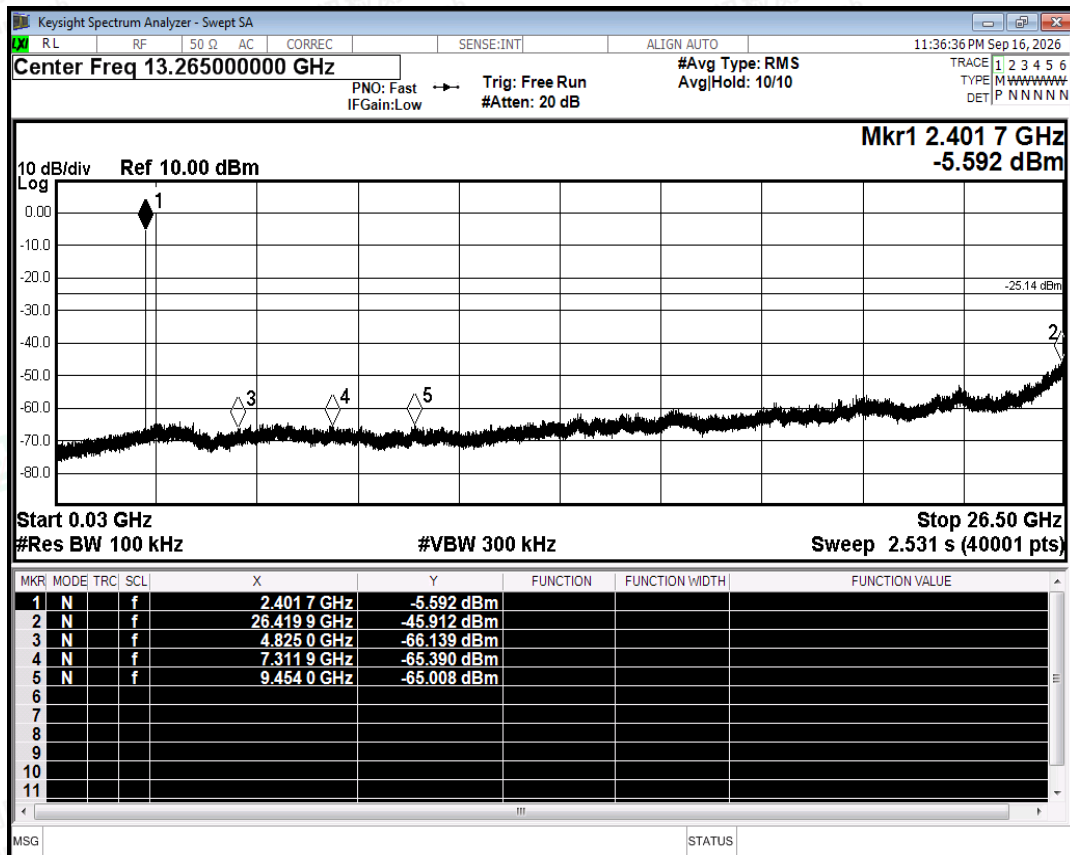


A.7 Conducted RF Spurious Emission

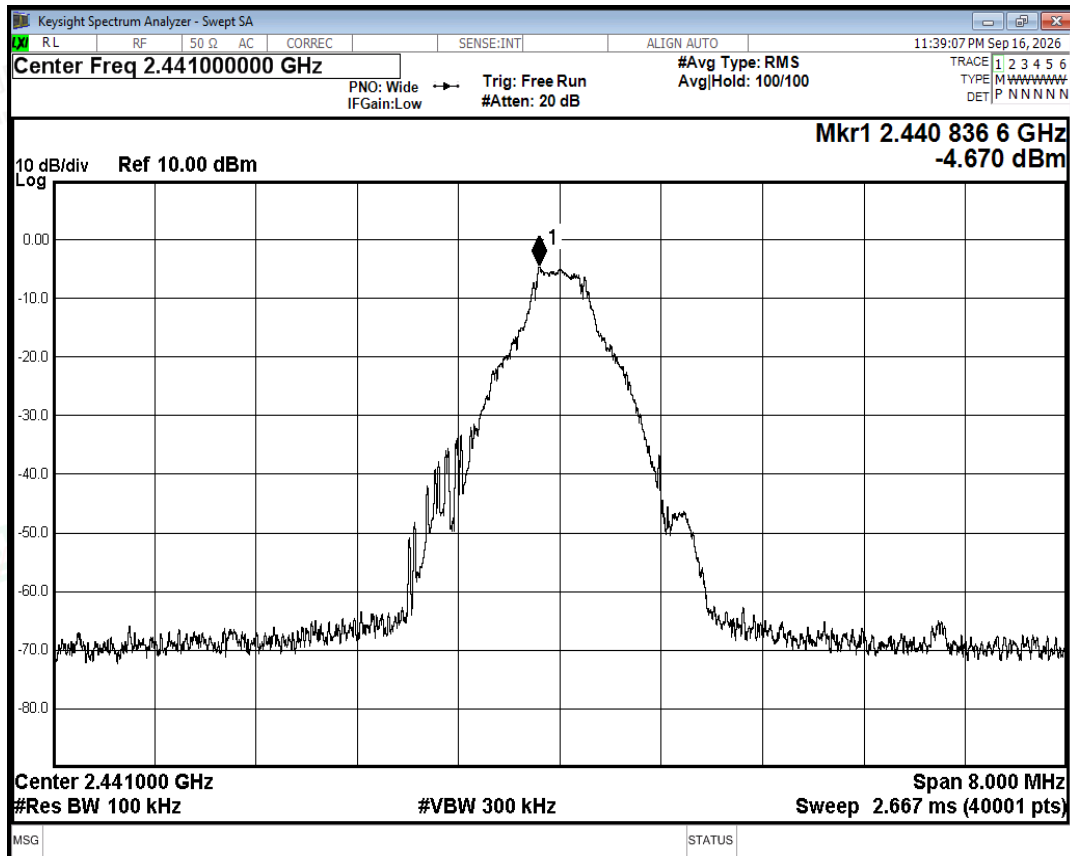
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-40.77	-20	Pass
NVNT	1-DH5	2441	Ant1	-41.38	-20	Pass
NVNT	1-DH5	2480	Ant1	-41.1	-20	Pass
NVNT	2-DH5	2402	Ant1	-39.69	-20	Pass
NVNT	2-DH5	2441	Ant1	-40.69	-20	Pass
NVNT	2-DH5	2480	Ant1	-38.85	-20	Pass
NVNT	3-DH5	2402	Ant1	-40.85	-20	Pass
NVNT	3-DH5	2441	Ant1	-40.37	-20	Pass
NVNT	3-DH5	2480	Ant1	-40.28	-20	Pass



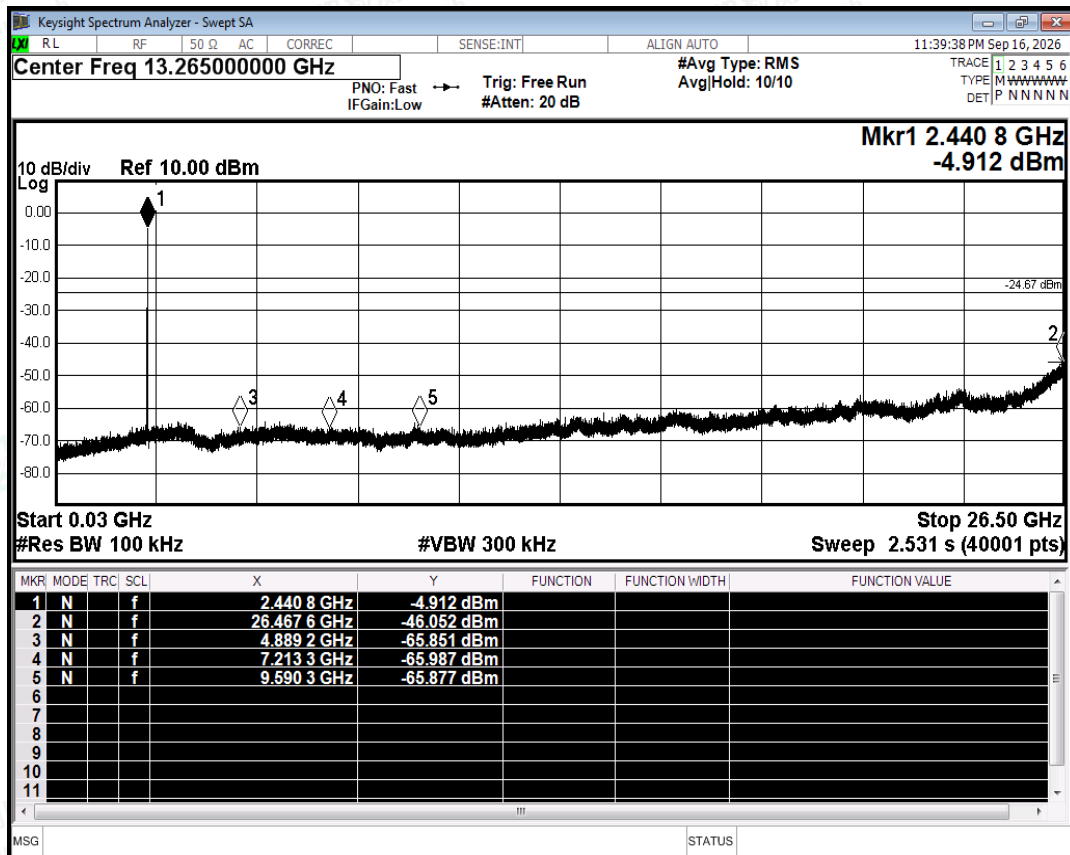
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



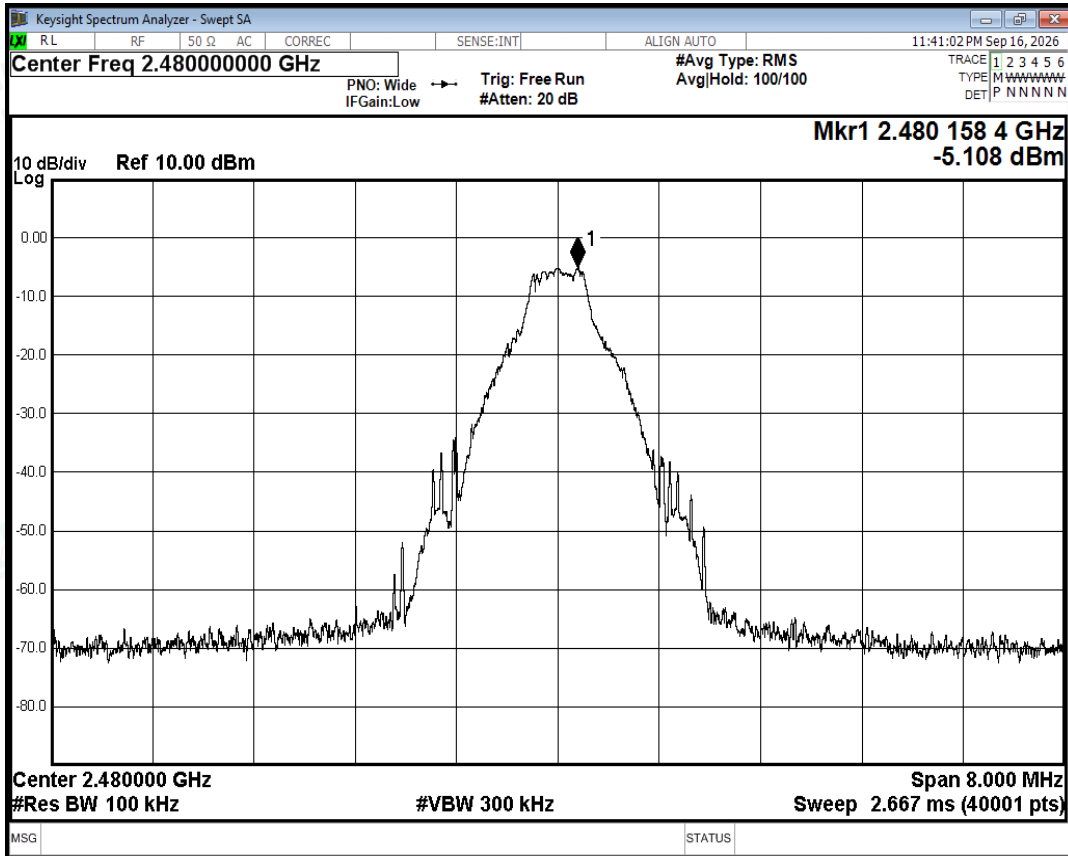
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



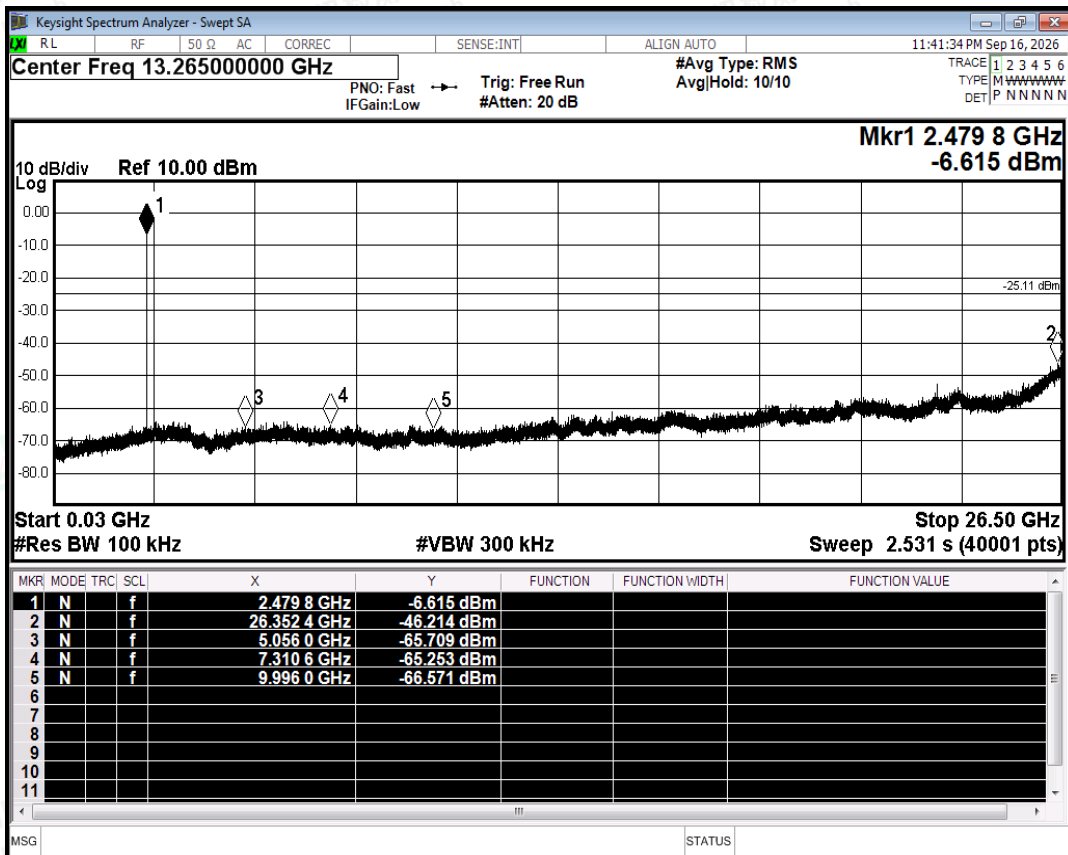
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



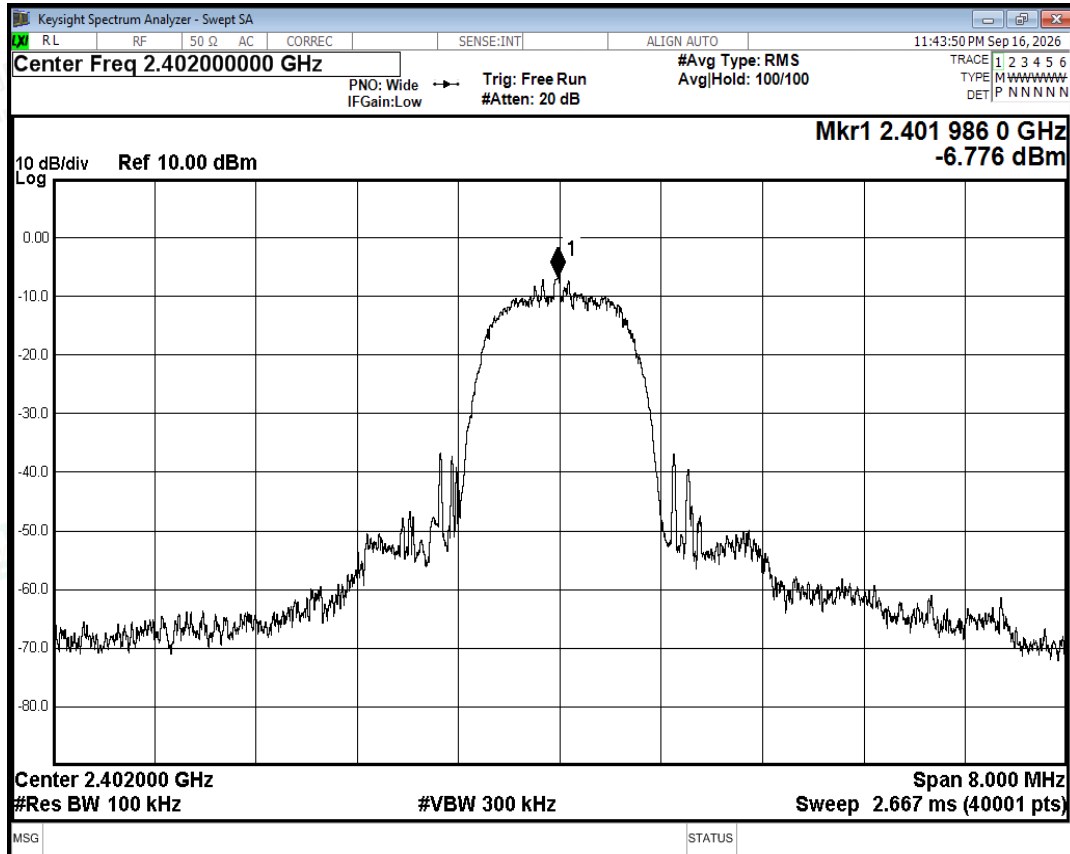
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



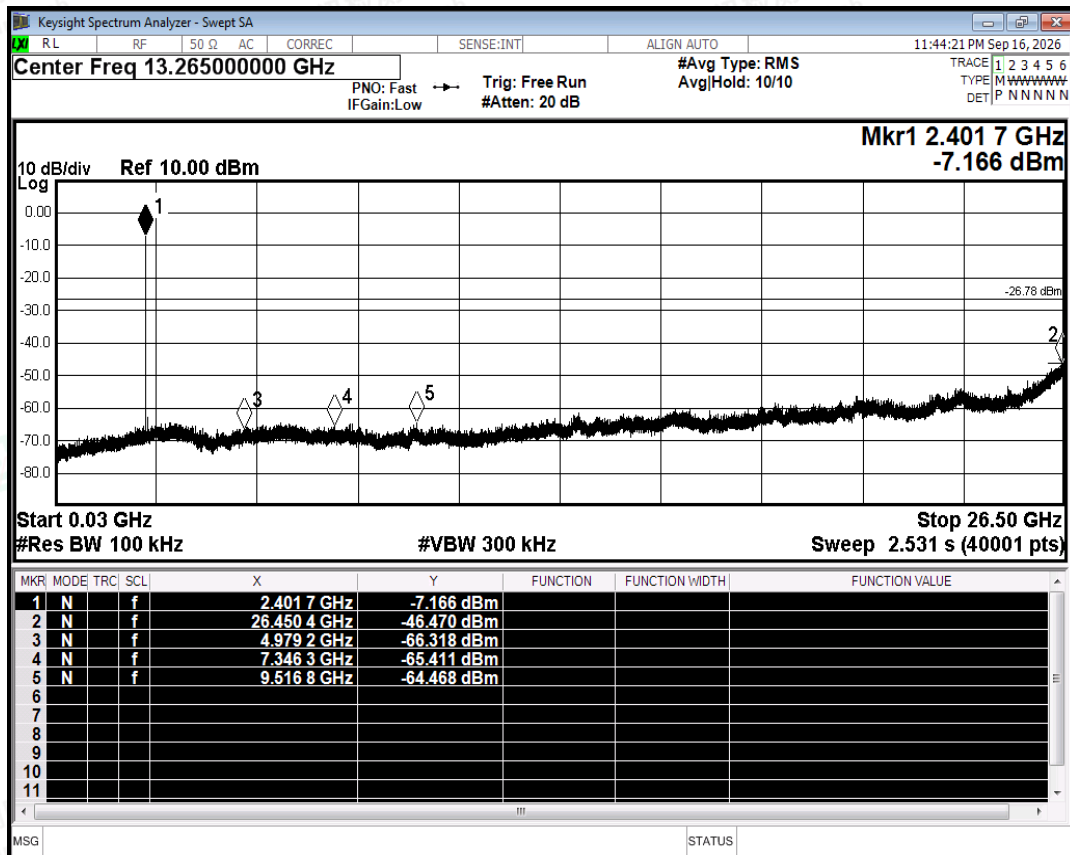
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



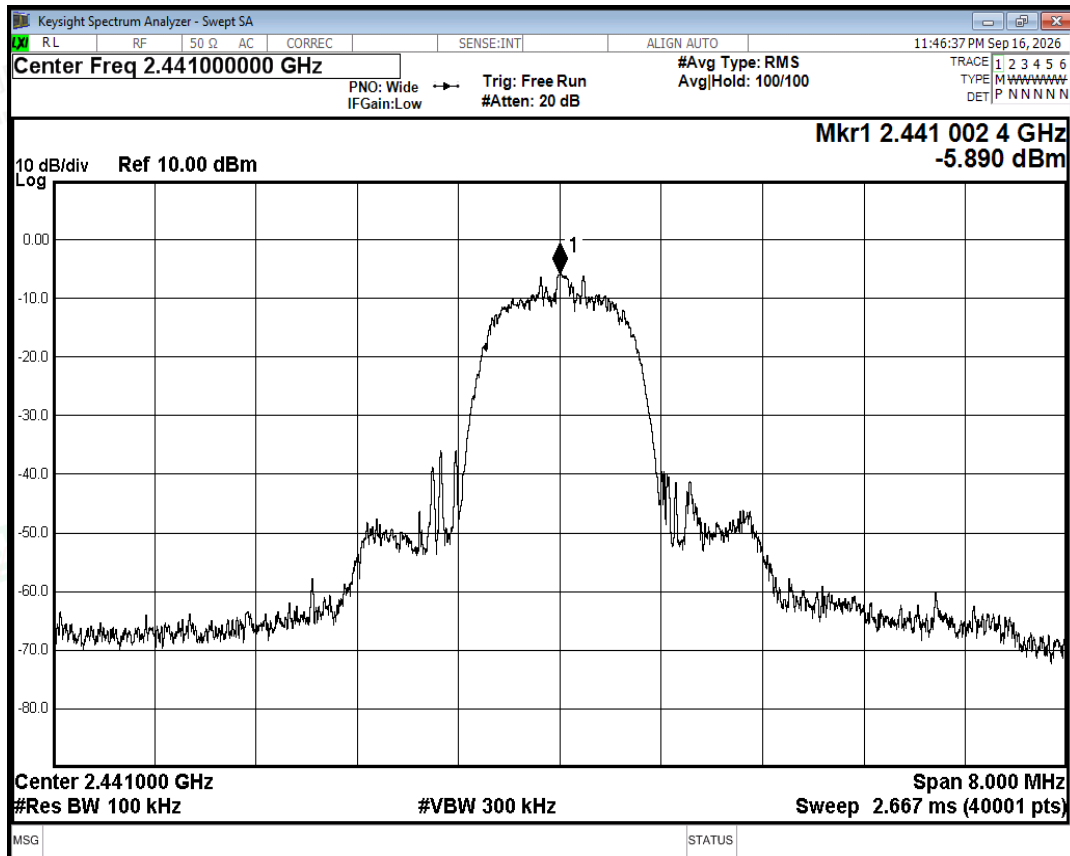
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



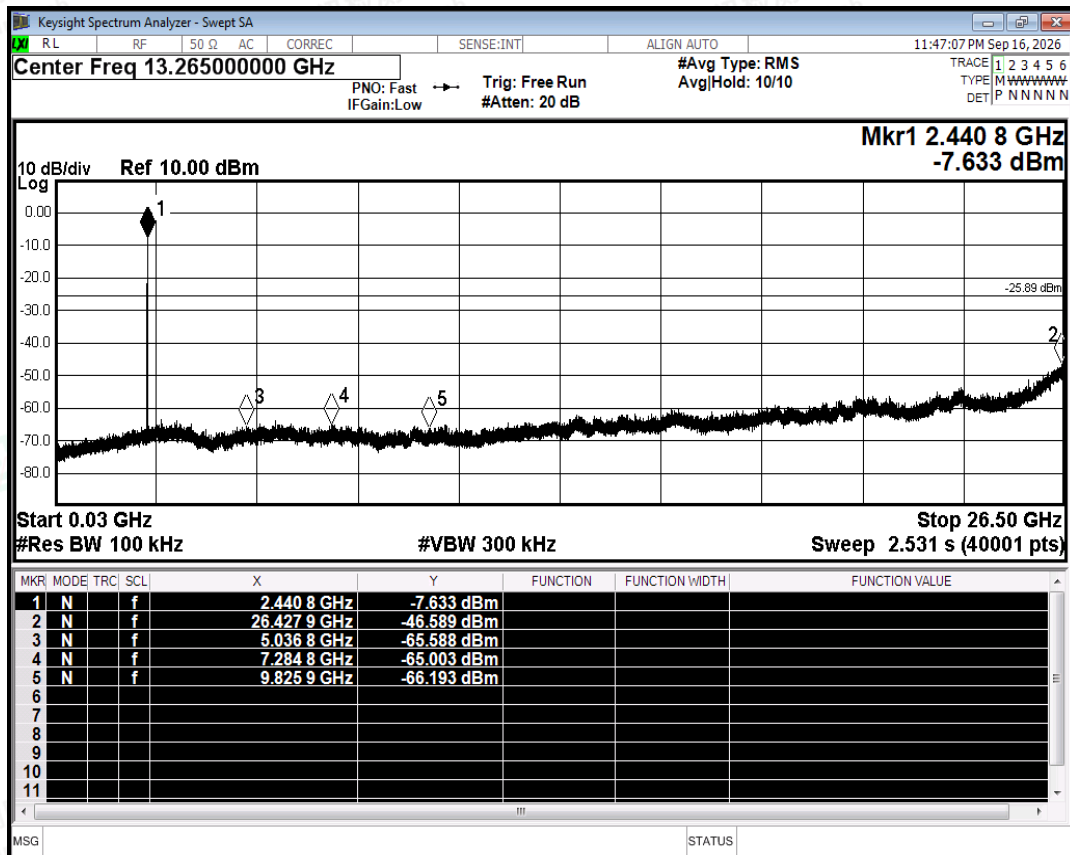
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



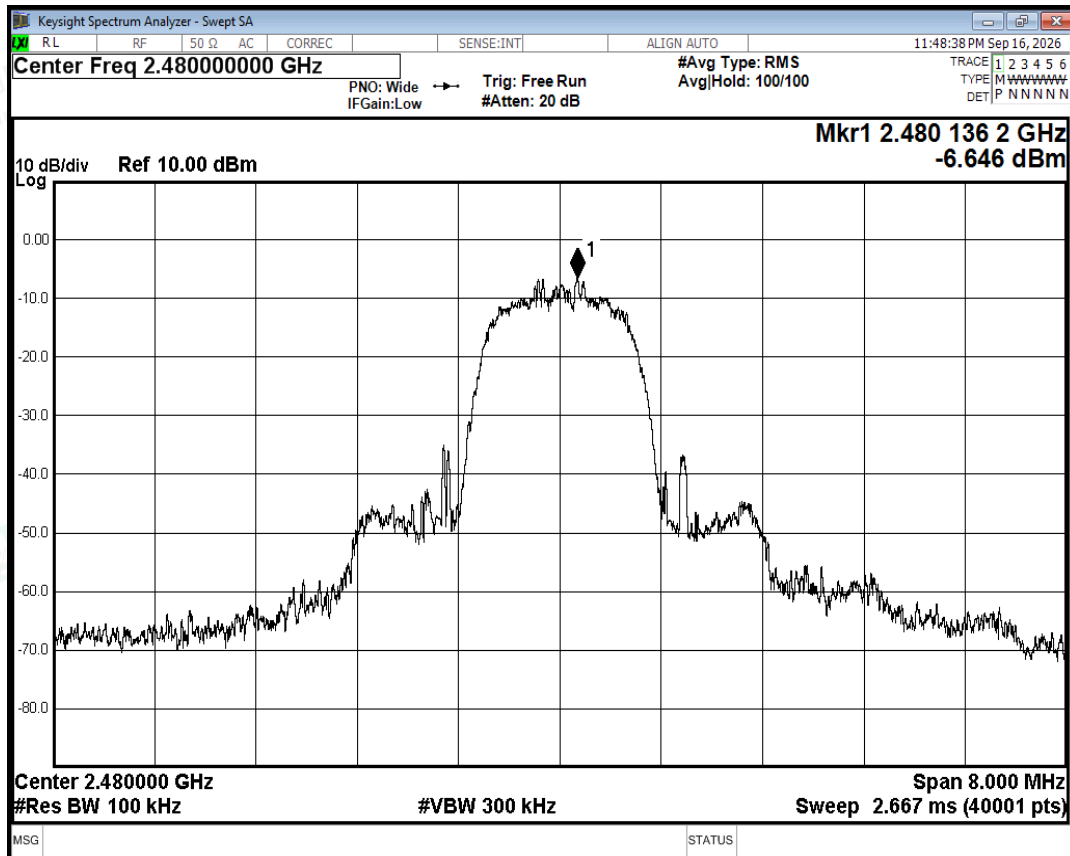
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



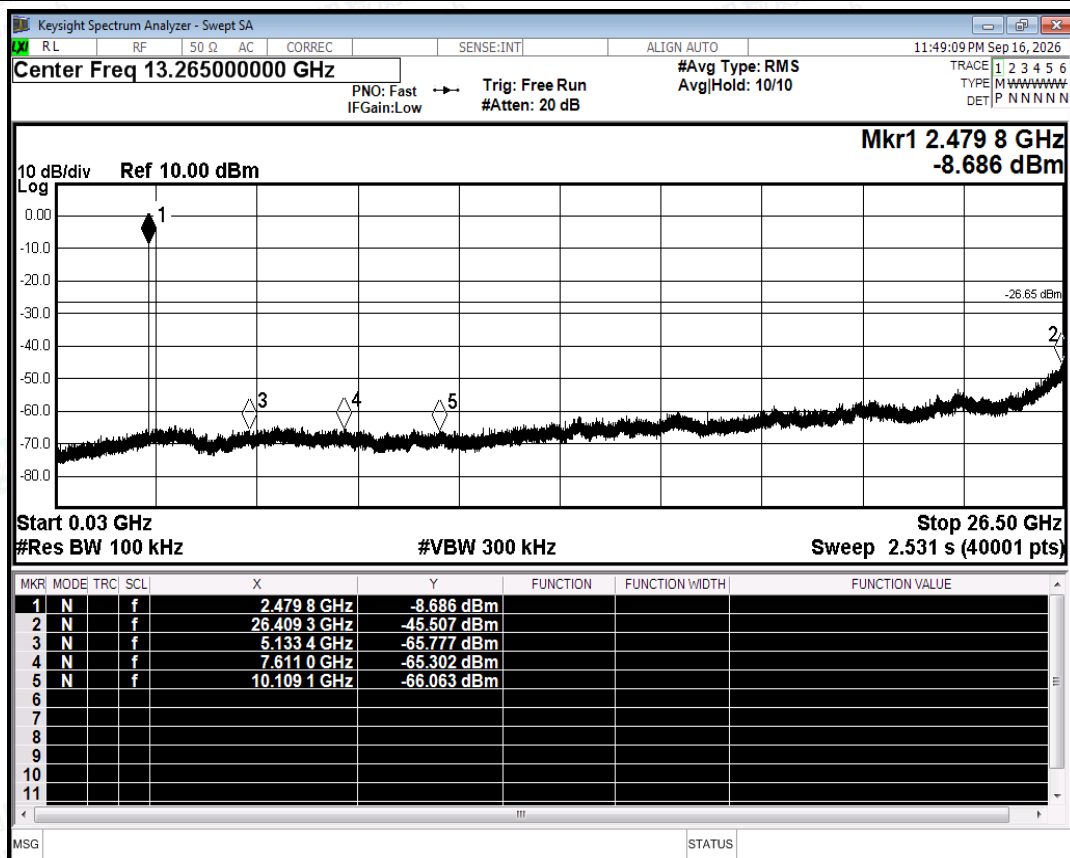
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



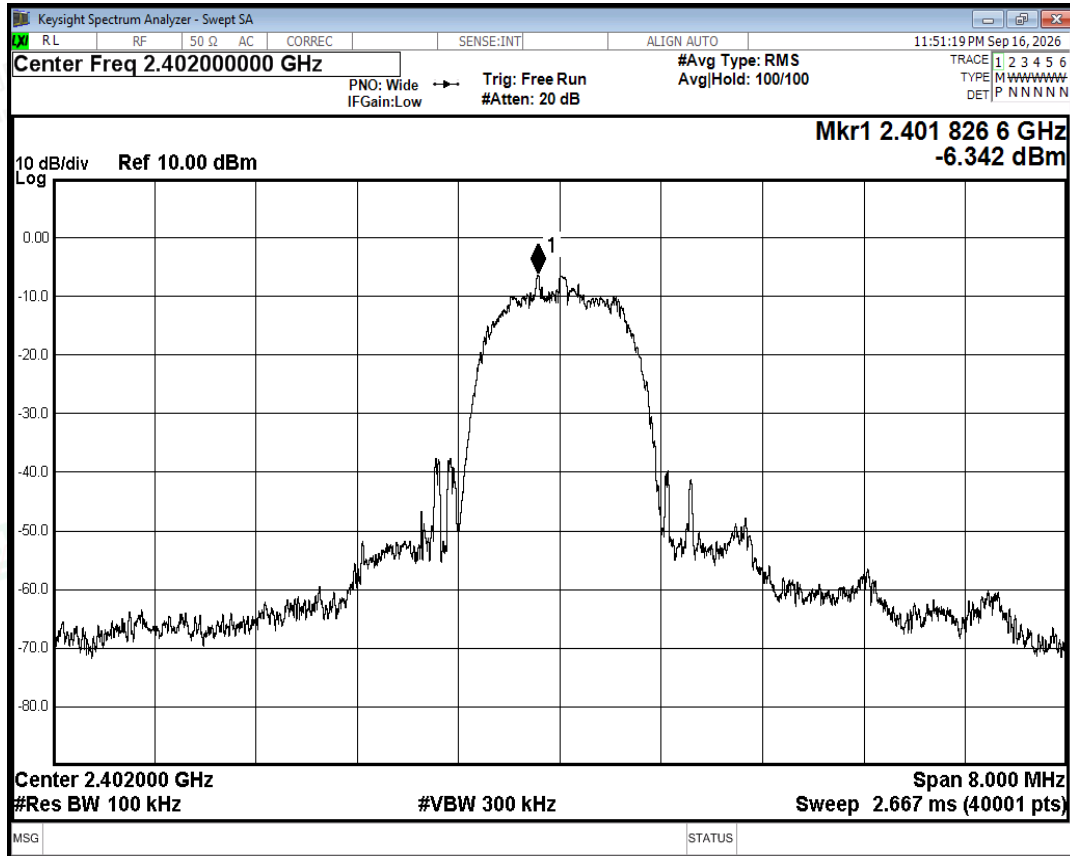
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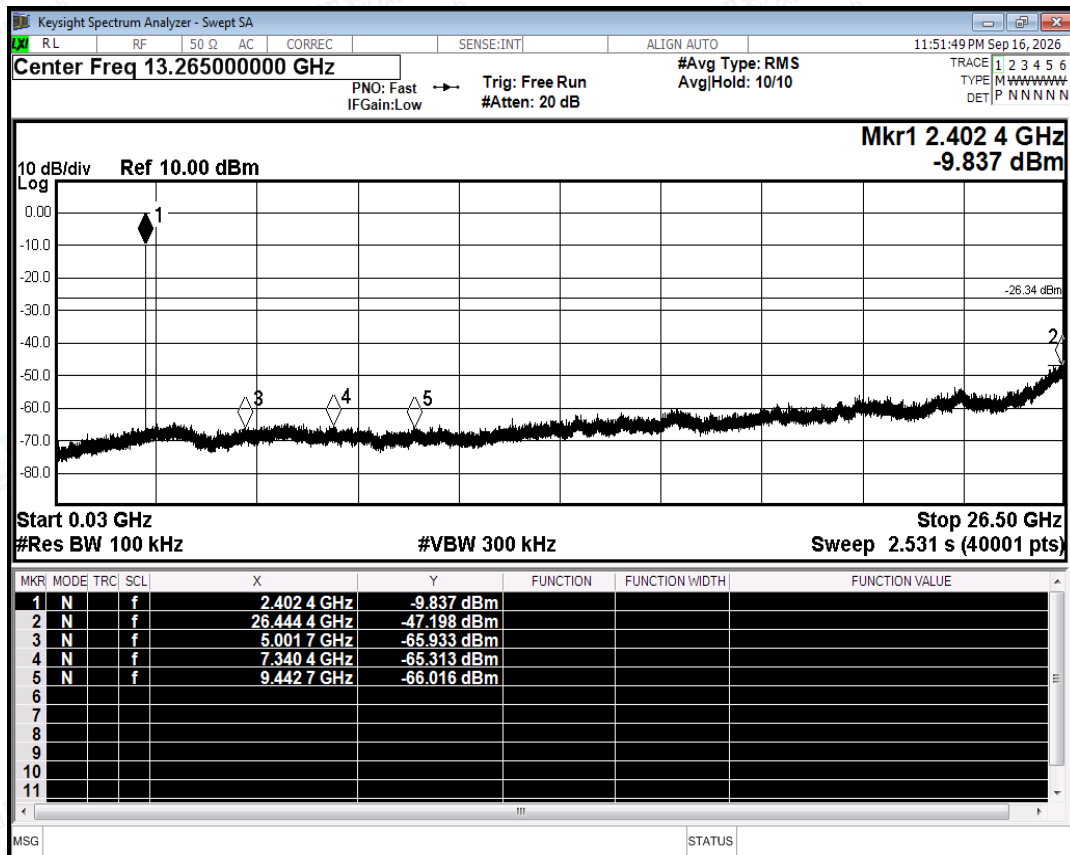
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



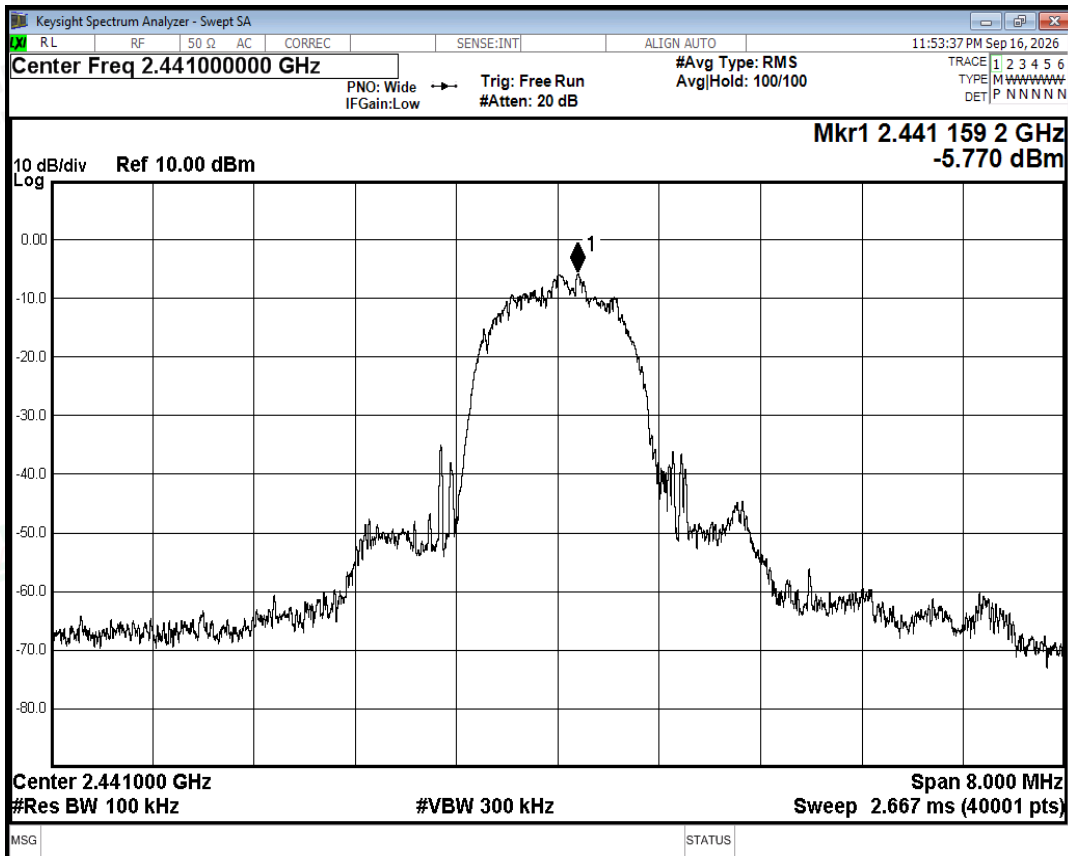
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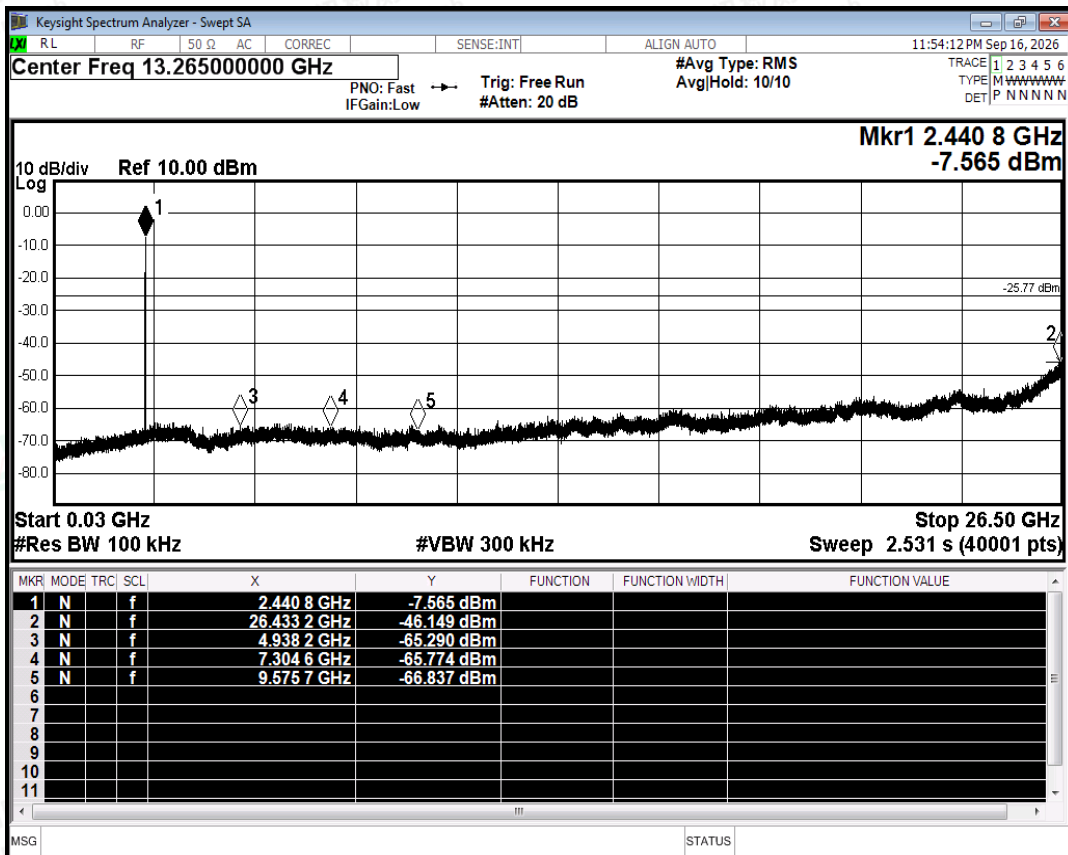
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



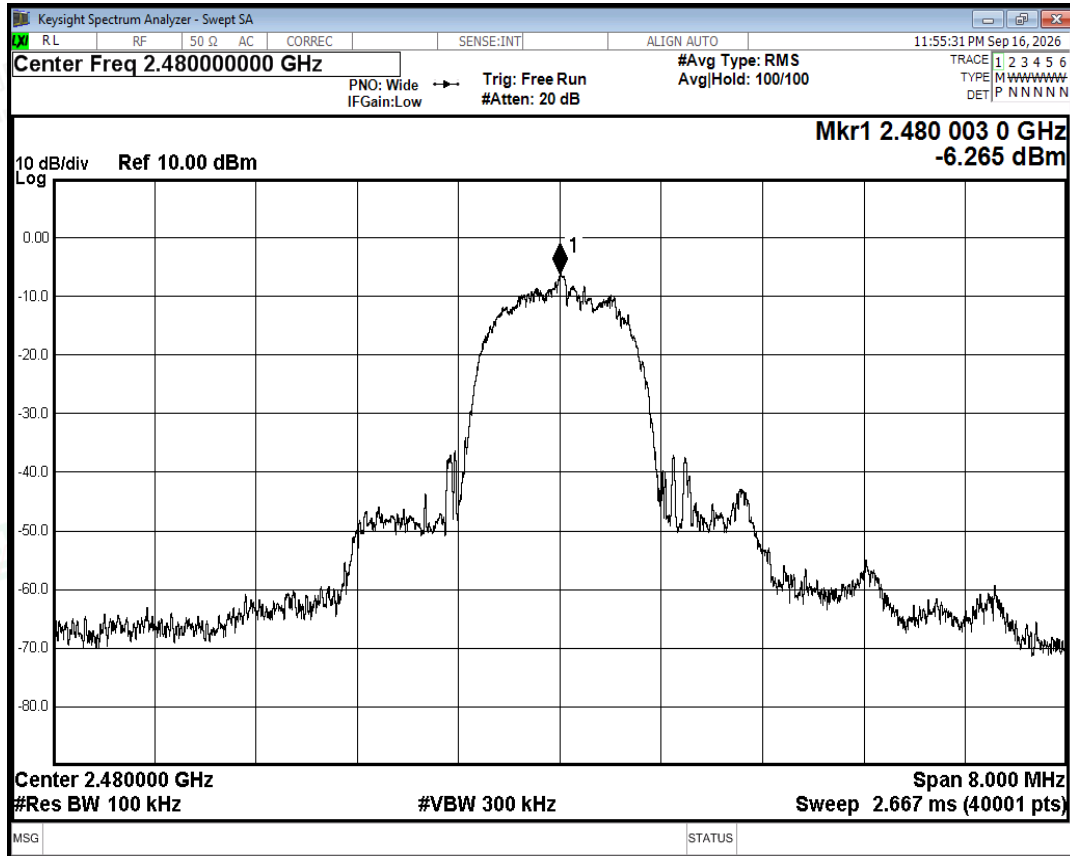
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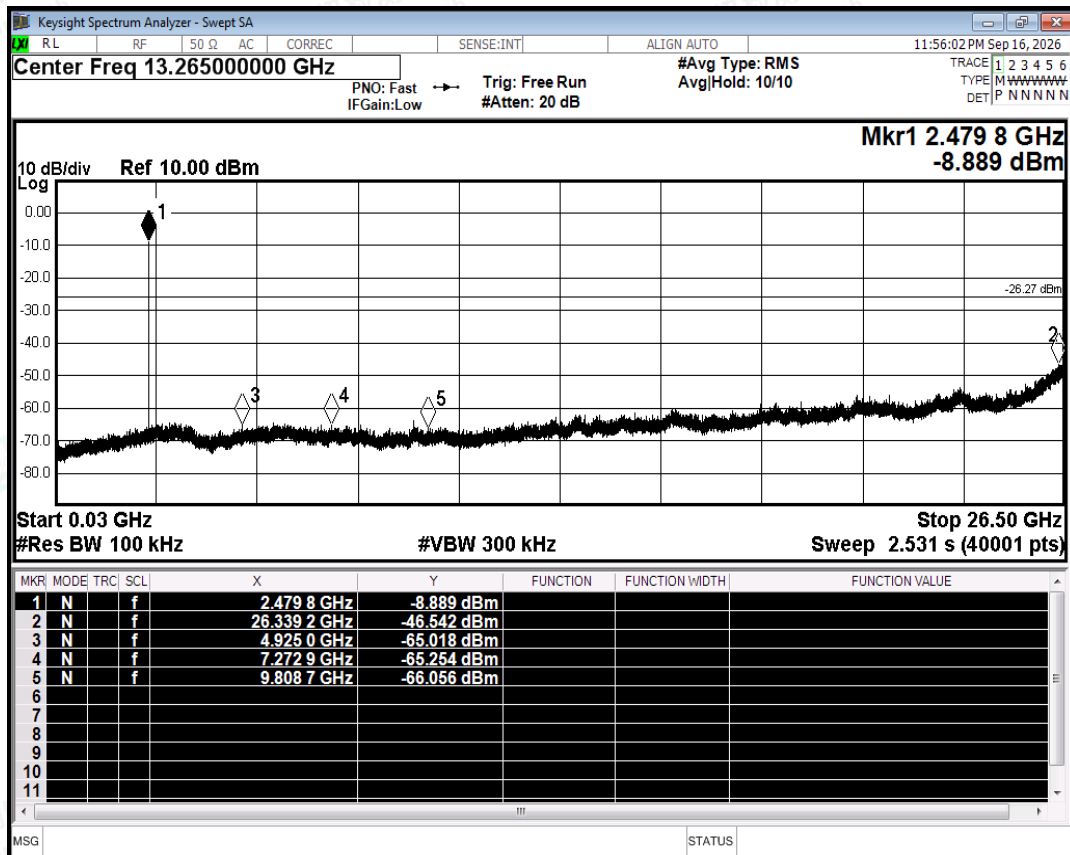
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref

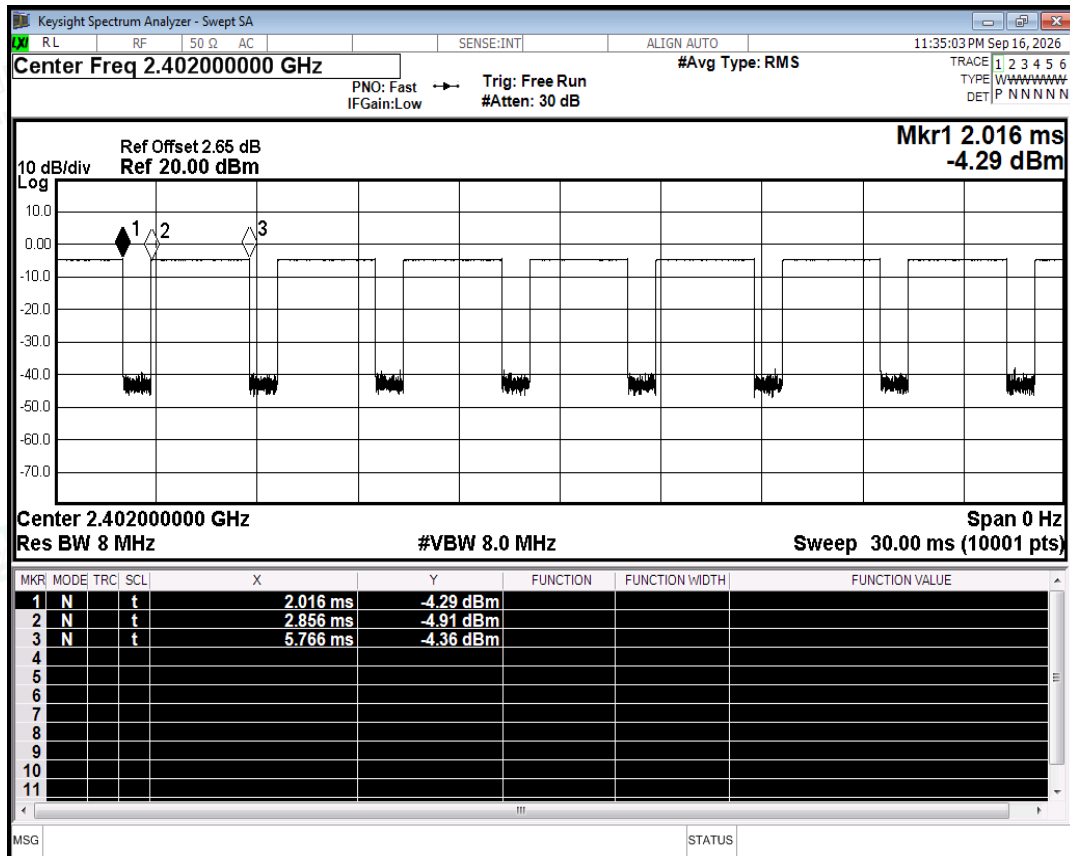


Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission

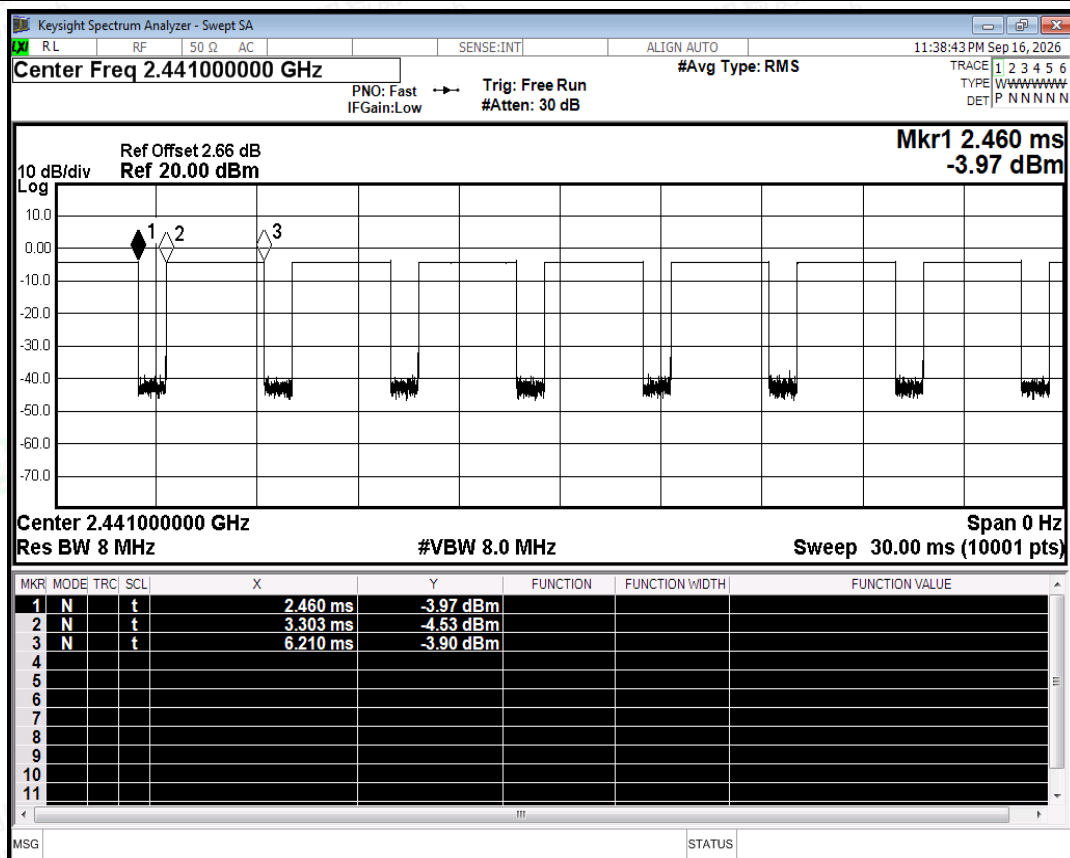


A.8 Duty Cycle

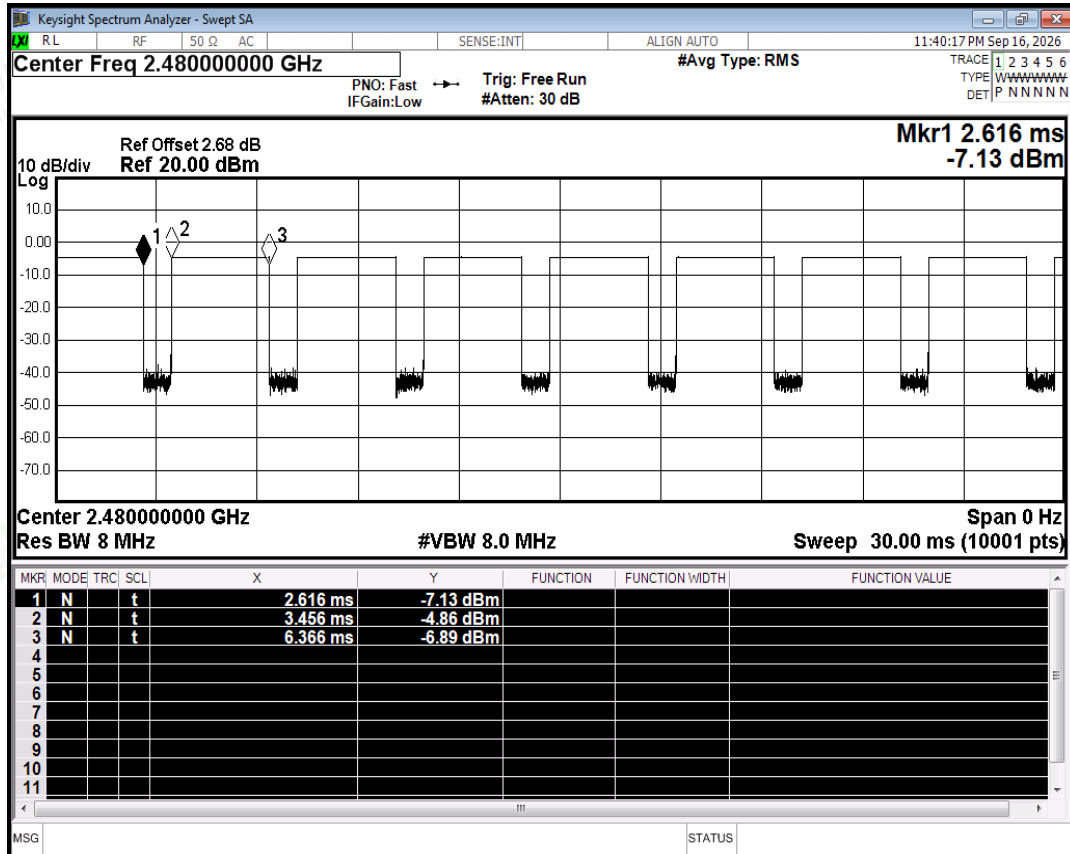
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	77.6	1.1	0.34
NVNT	1-DH5	2441	Ant1	77.52	1.11	0.34
NVNT	1-DH5	2480	Ant1	77.6	1.1	0.34
NVNT	2-DH5	2402	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2480	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2402	Ant1	77.2	1.12	0.35
NVNT	3-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2480	Ant1	77.28	1.12	0.35



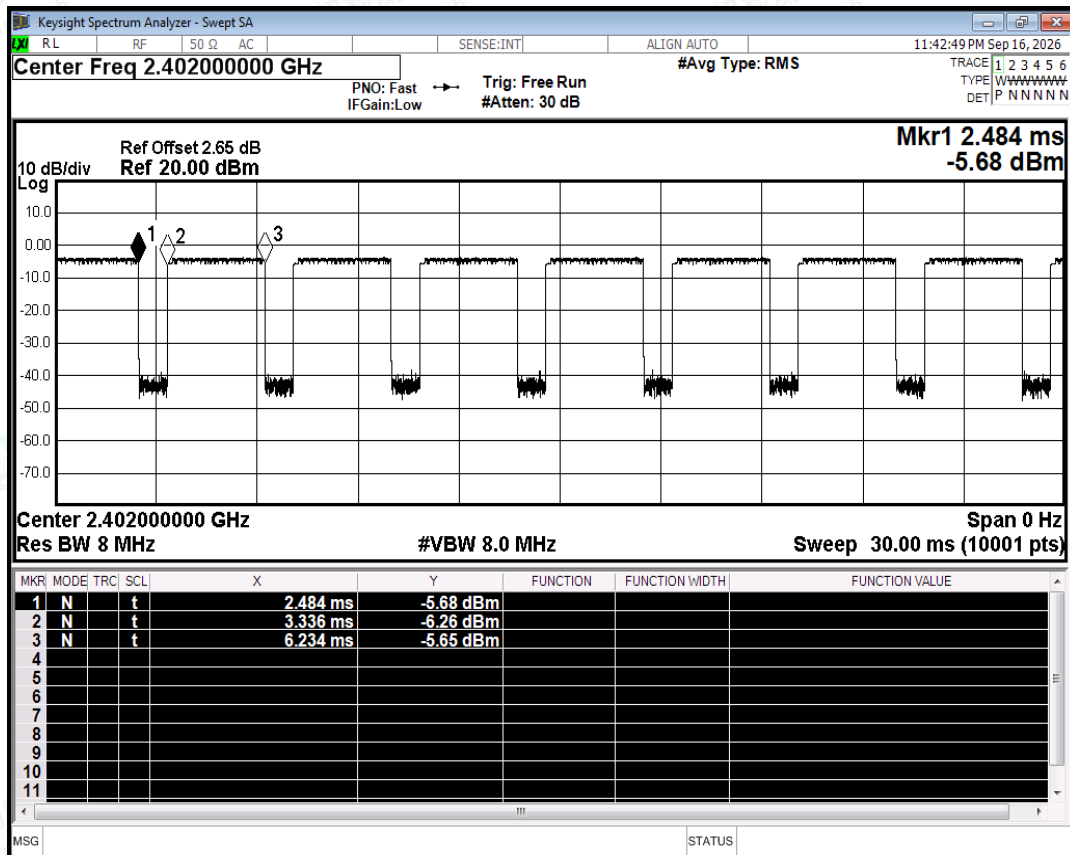
Duty Cycle NVNT 1-DH5 2402MHz Ant1



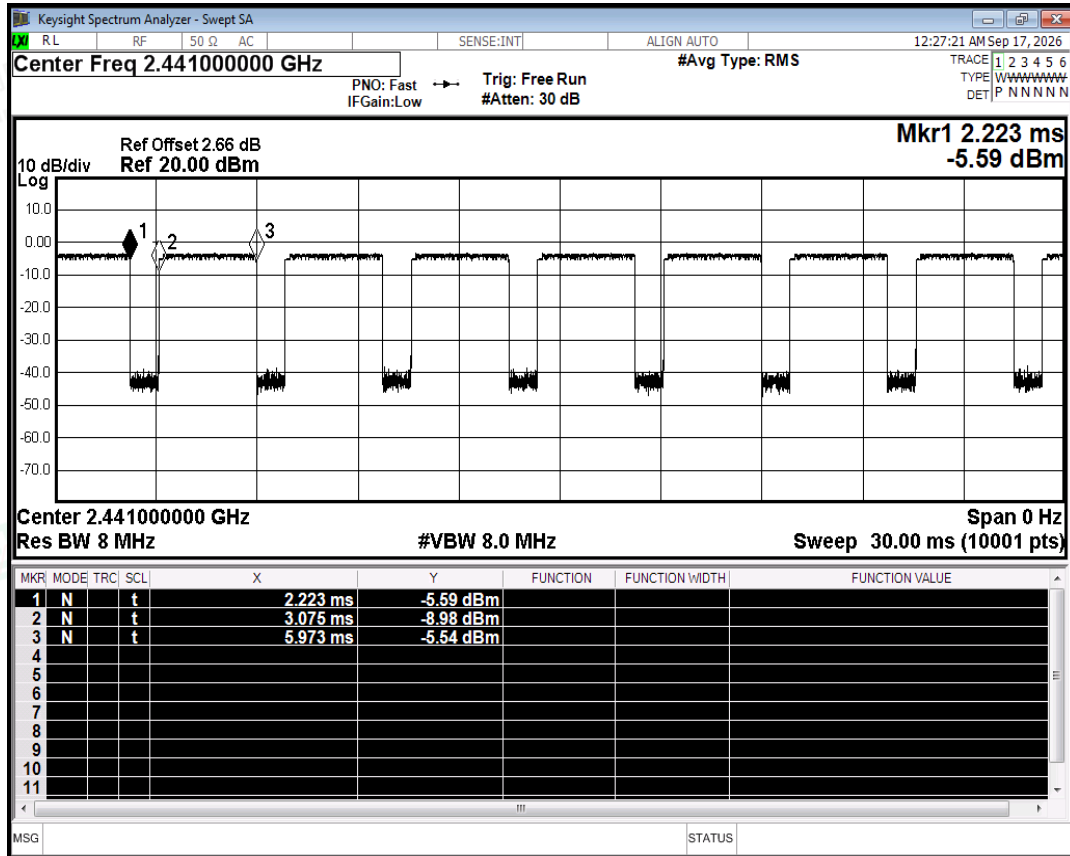
Duty Cycle NVNT 1-DH5 2441MHz Ant1



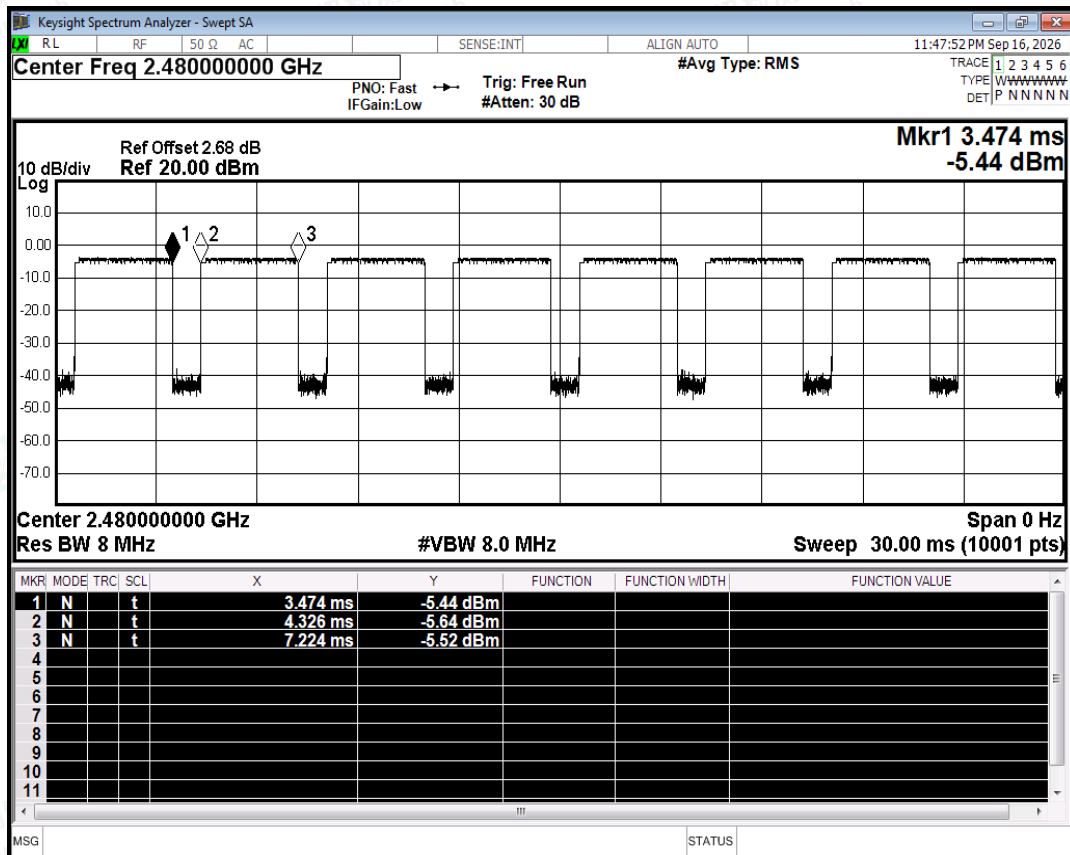
Duty Cycle NVNT 1-DH5 2480MHz Ant1



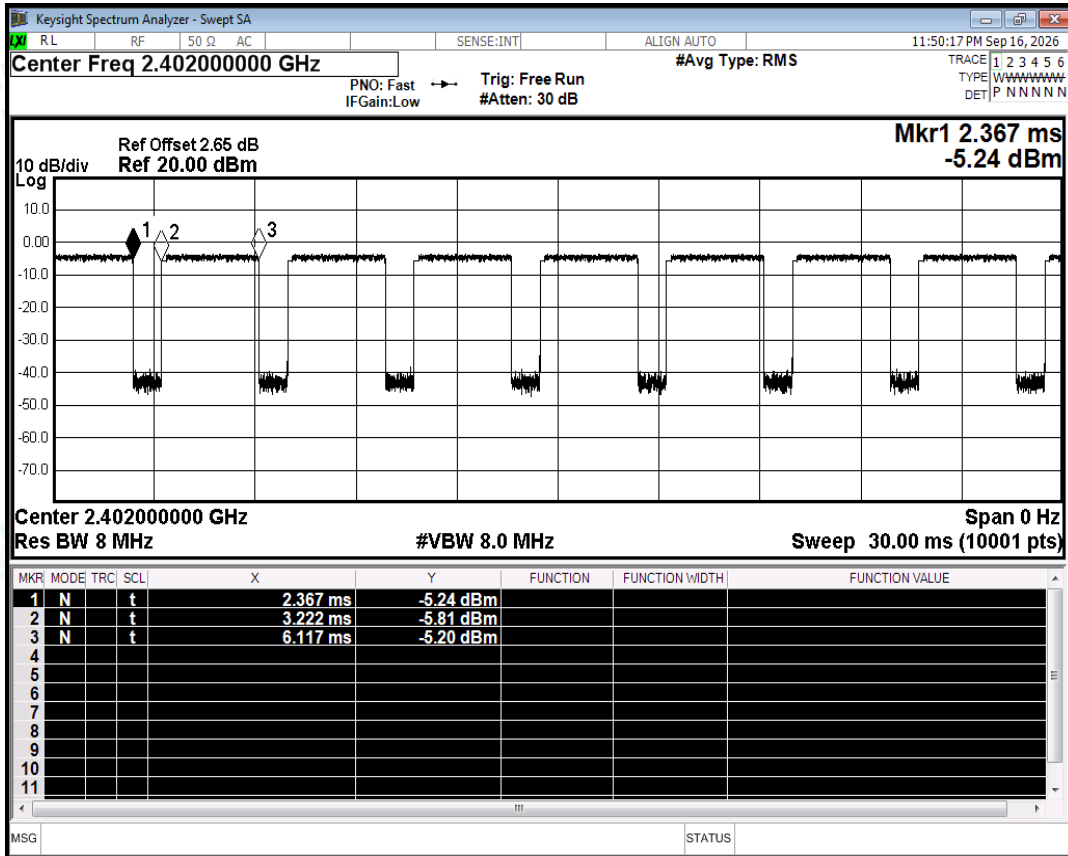
Duty Cycle NVNT 2-DH5 2402MHz Ant1



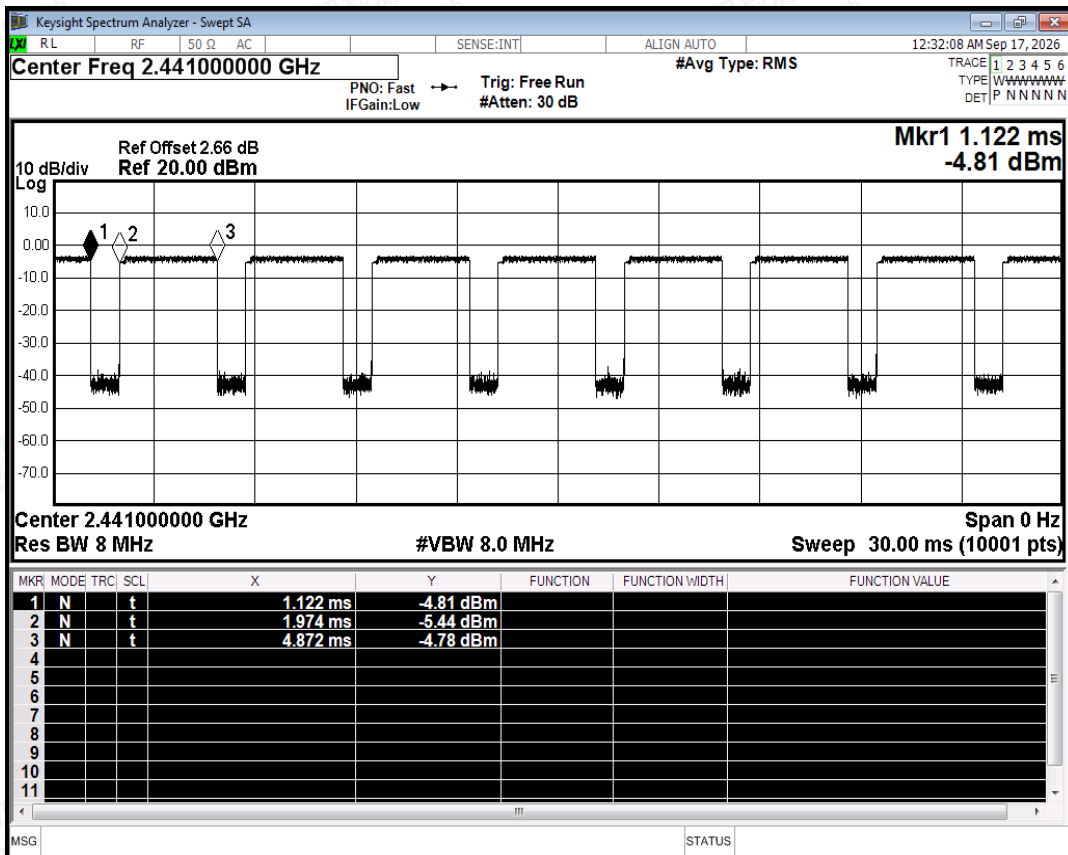
Duty Cycle NVNT 2-DH5 2441MHz Ant1



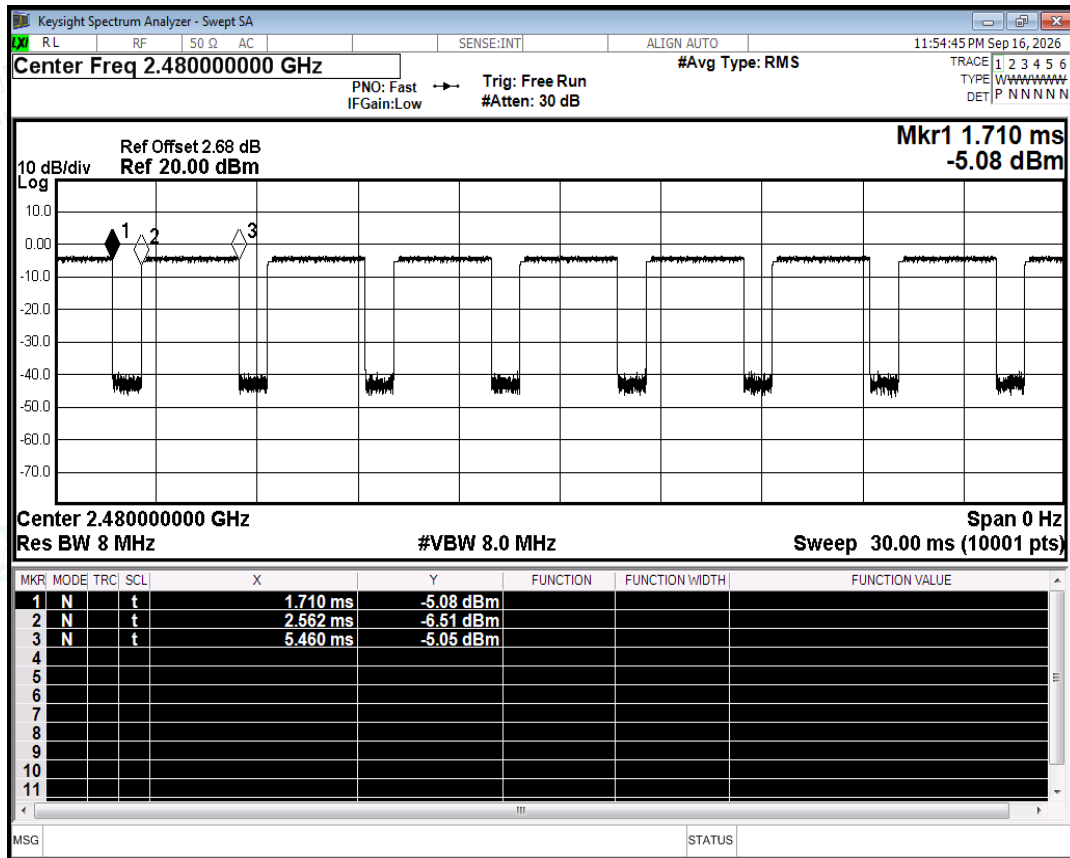
Duty Cycle NVNT 2-DH5 2480MHz Ant1



Duty Cycle NVNT 3-DH5 2402MHz Ant1



Duty Cycle NVNT 3-DH5 2441MHz Ant1

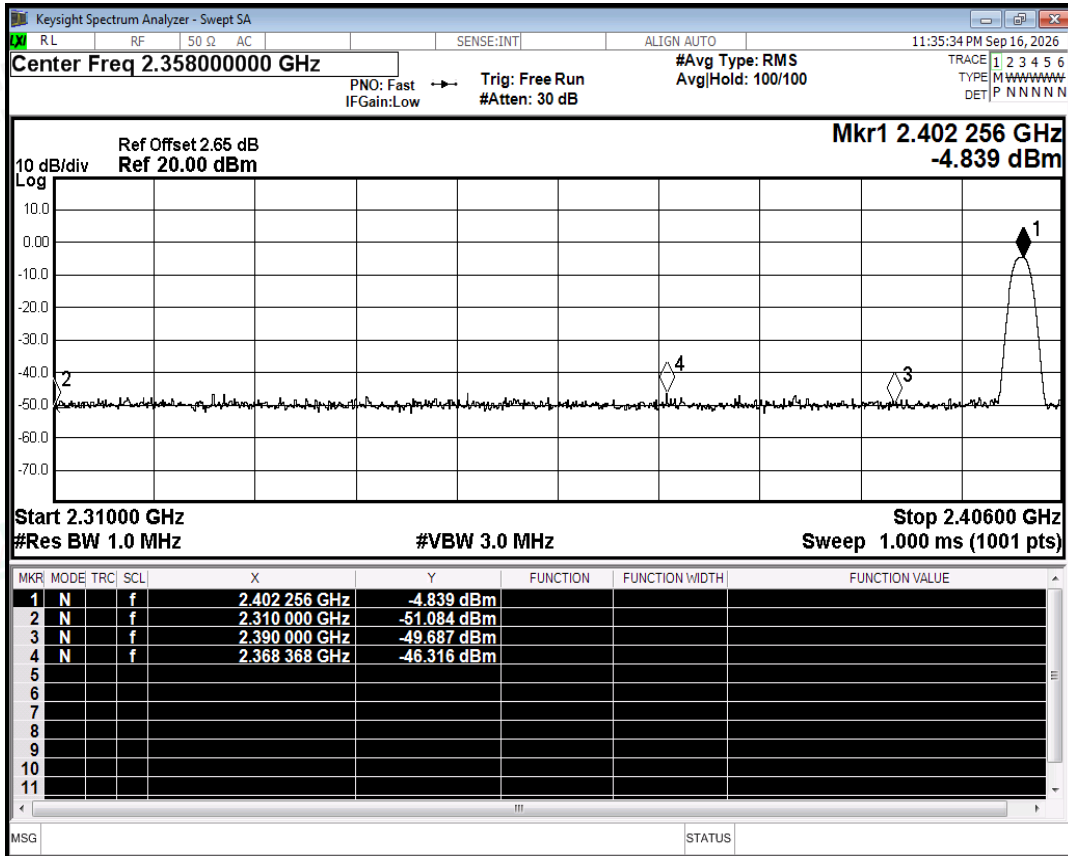


Duty Cycle NVNT 3-DH5 2480MHz Ant1

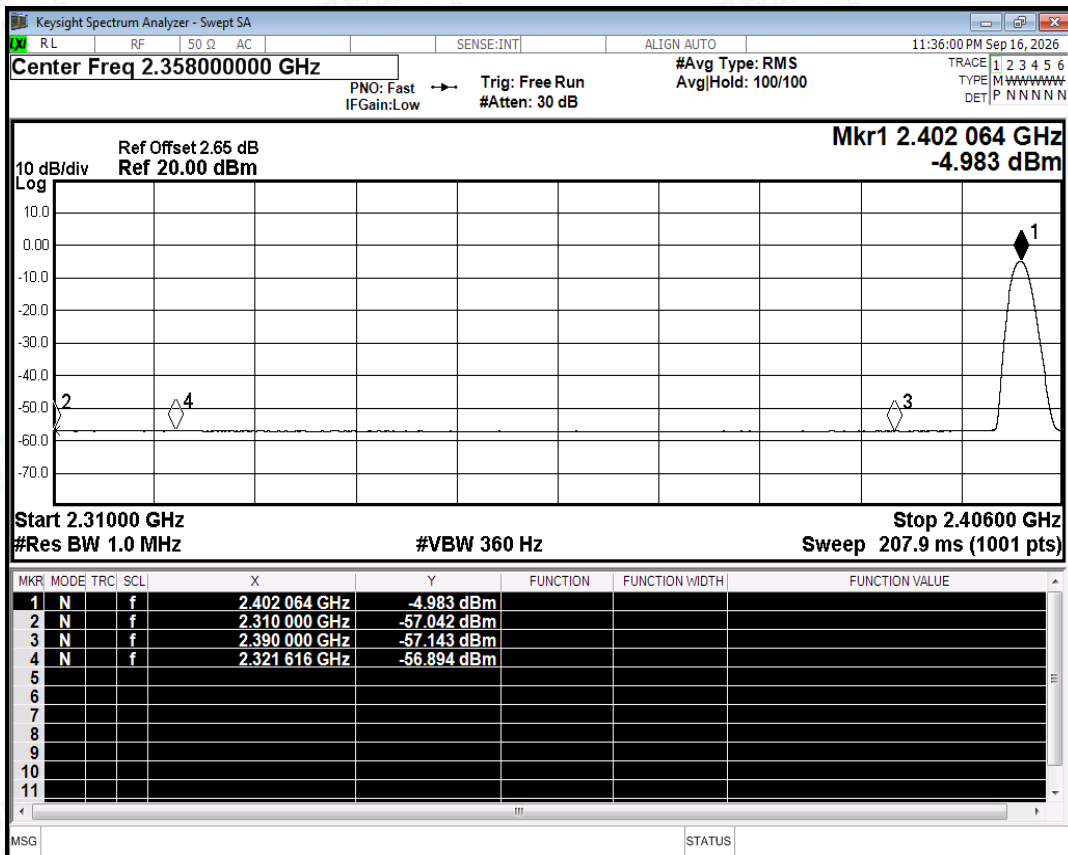


A.9 Restrict Band

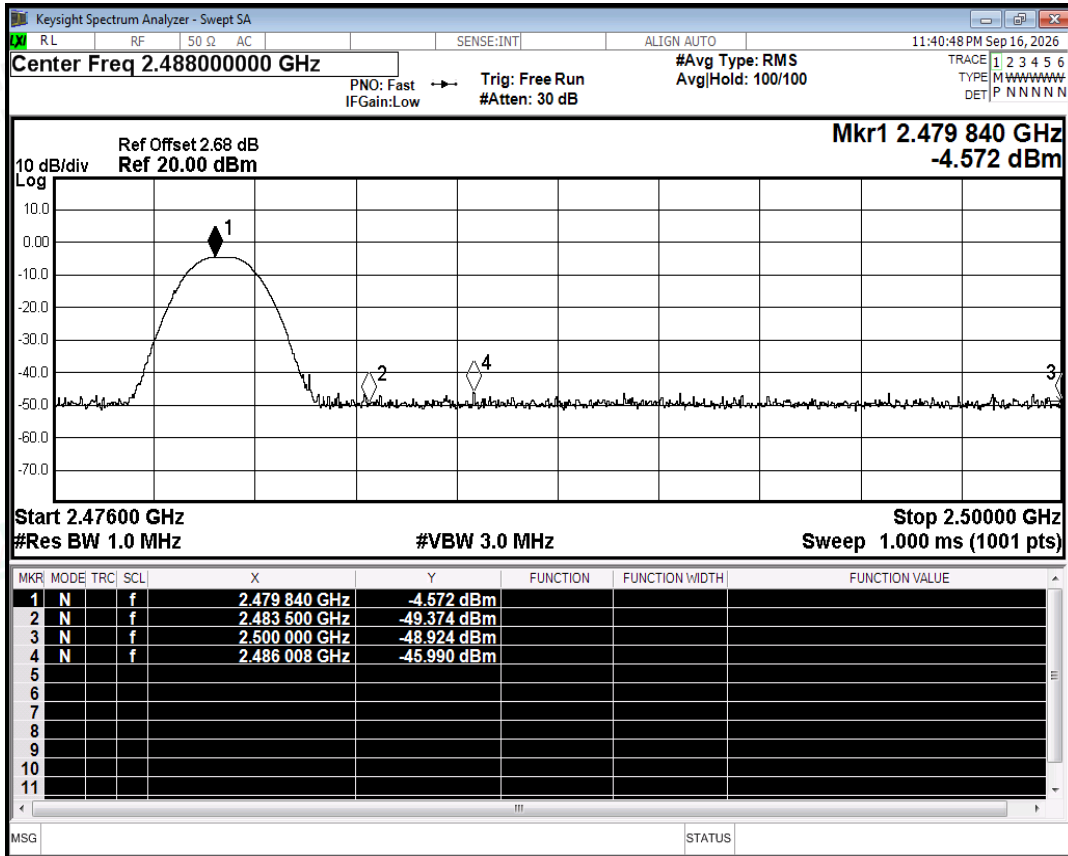
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-51.08	3.89	48.07	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-57.04	3.89	42.11	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2368.368	-46.31	3.89	52.84	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2321.616	-56.89	3.89	42.26	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-49.83	3.89	49.32	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.03	3.89	42.12	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.37	3.89	49.78	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-56.38	3.89	42.77	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2486.008	-45.98	3.89	53.17	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-56.38	3.89	42.77	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-48.92	3.89	50.23	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-56.97	3.89	42.18	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-49.91	3.89	49.24	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-57.03	3.89	42.12	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2345.04	-47.2	3.89	51.95	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2317.488	-56.91	3.89	42.24	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-48.67	3.89	50.48	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57.18	3.89	41.97	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-47.51	3.89	51.64	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-55.91	3.89	43.24	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2494.648	-46.33	3.89	52.82	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.536	-55.9	3.89	43.25	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49.27	3.89	49.88	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-56.85	3.89	42.30	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.08	3.89	49.07	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-56.99	3.89	42.16	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2322.288	-45.96	3.89	53.19	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2327.28	-56.8	3.89	42.35	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-49.48	3.89	49.67	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-57.2	3.89	41.95	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-47.91	3.89	51.24	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-55.68	3.89	43.47	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2494.792	-46.98	3.89	52.17	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-55.68	3.89	43.47	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-51.09	3.89	48.06	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-56.93	3.89	42.22	Average	54	Pass



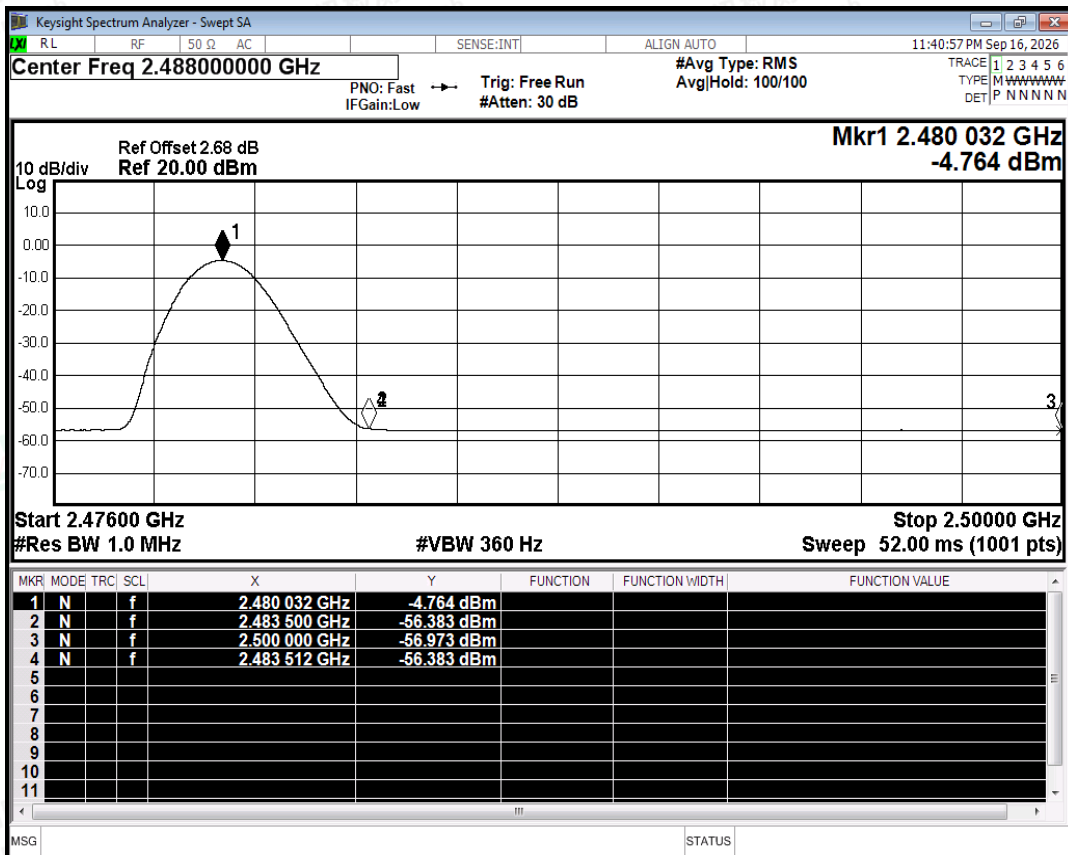
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak



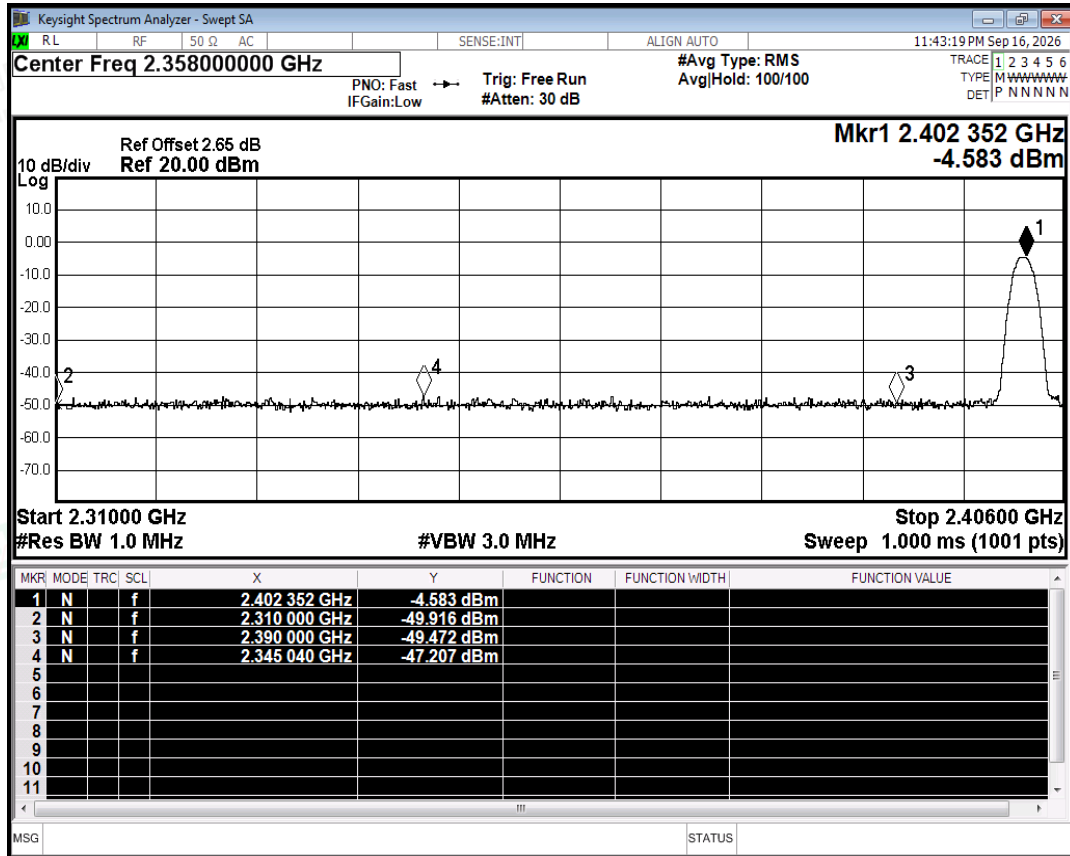
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average



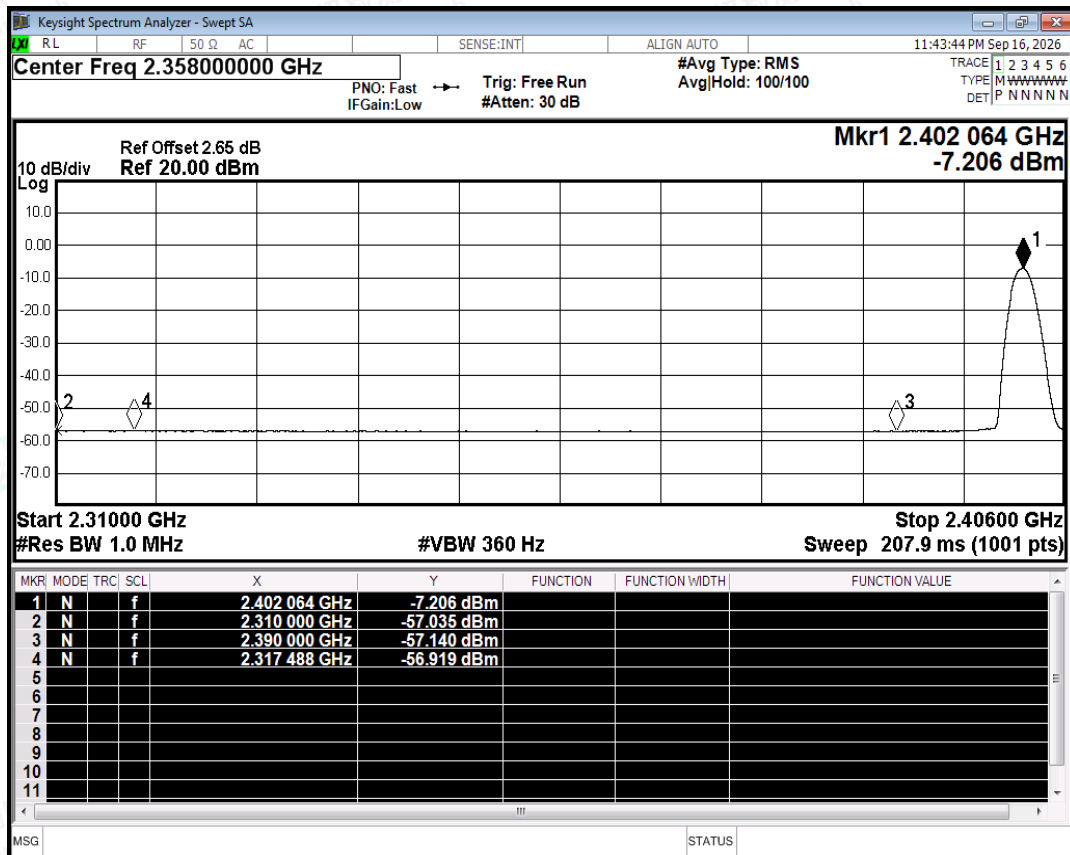
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



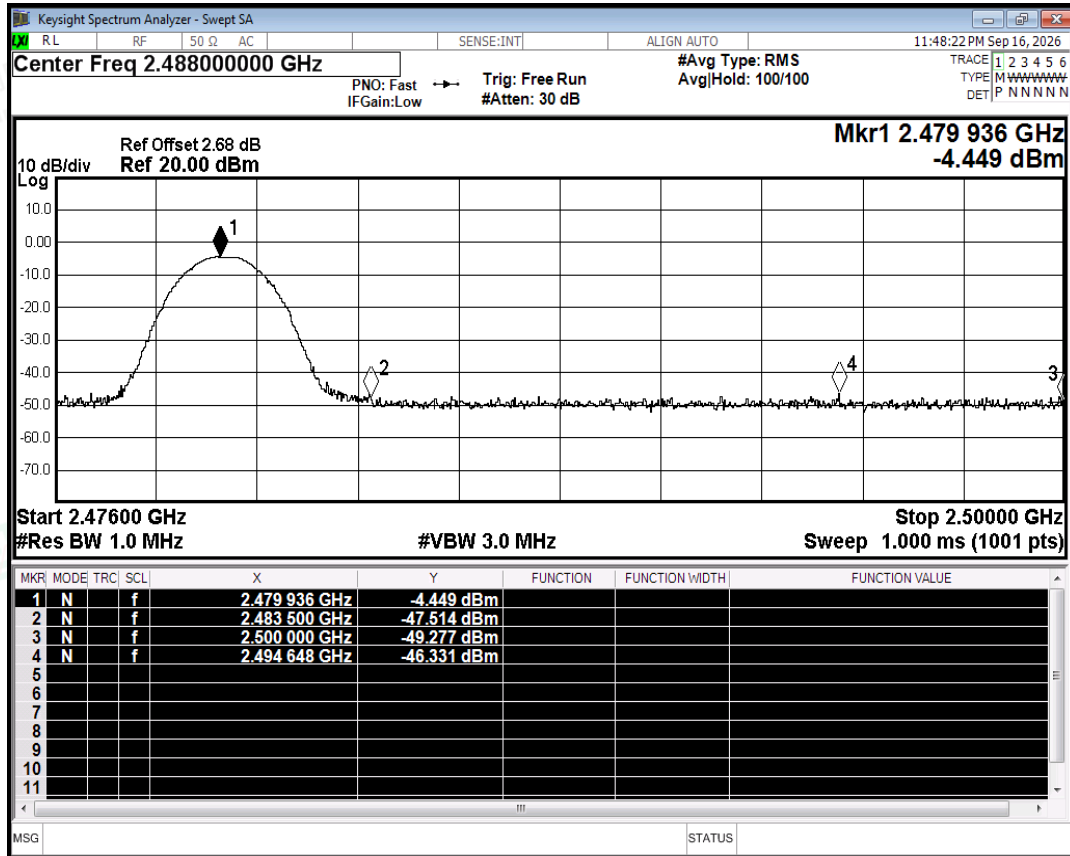
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average



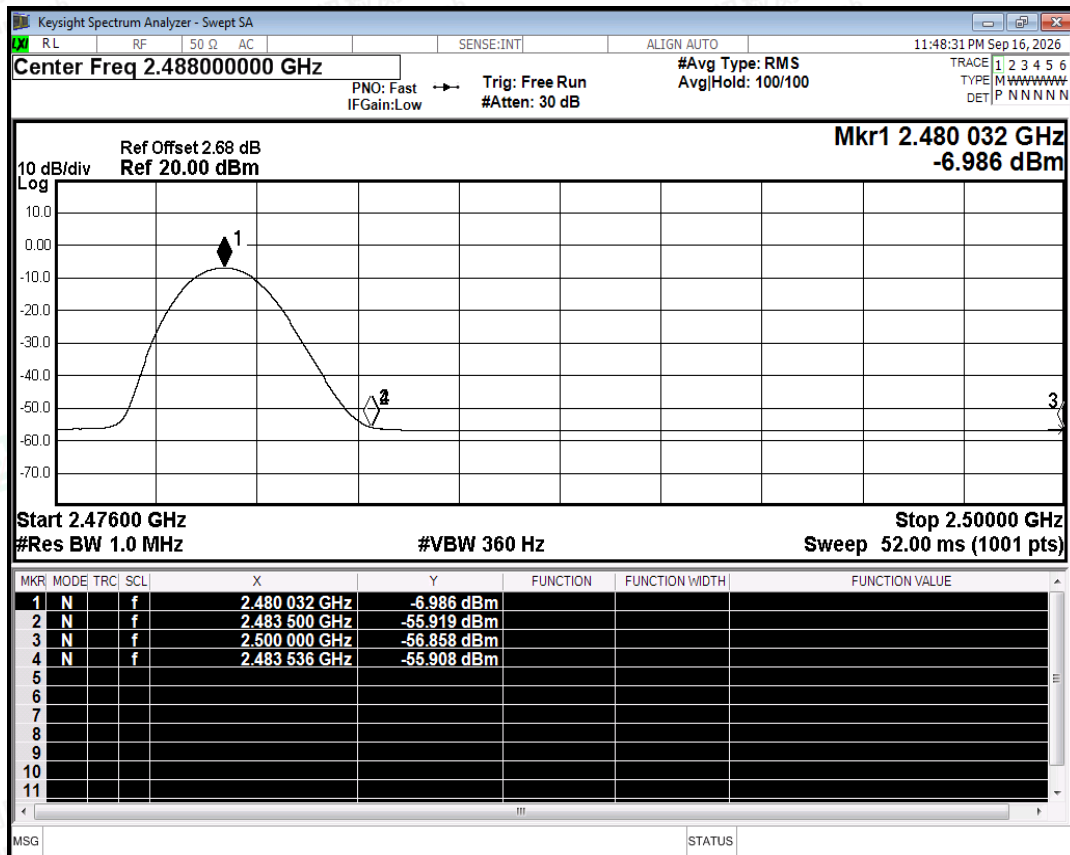
Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



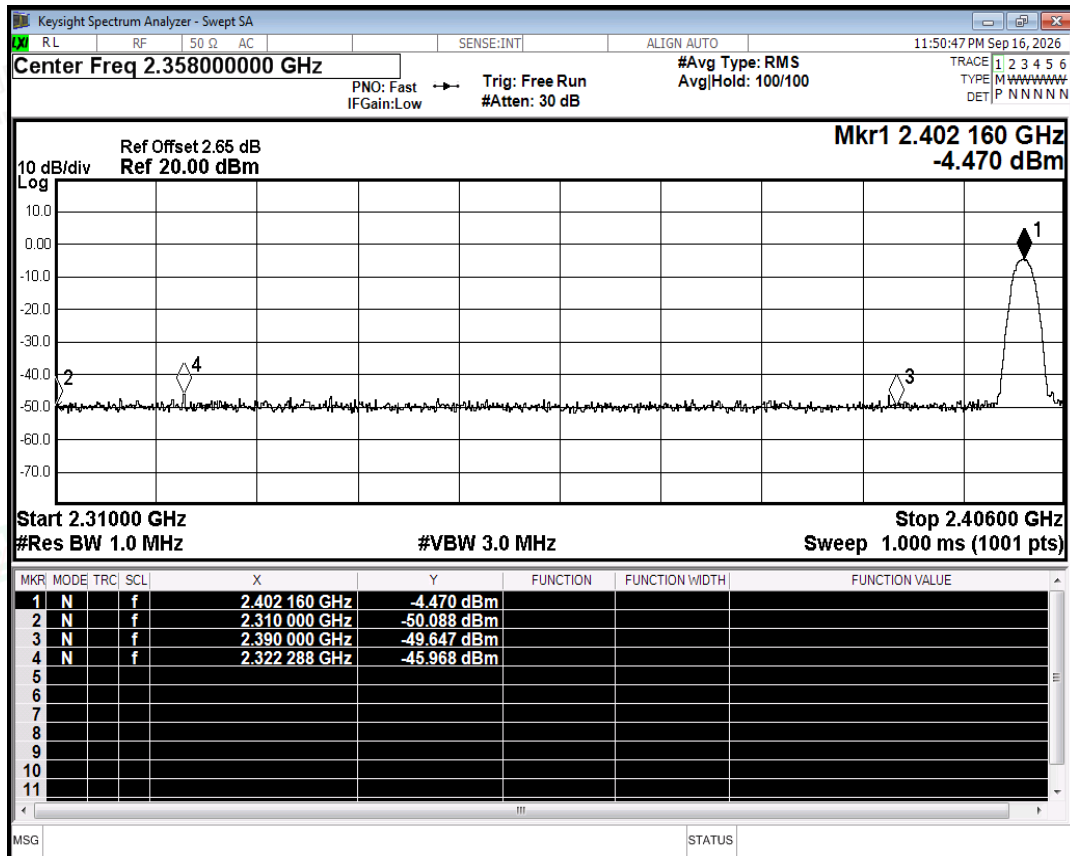
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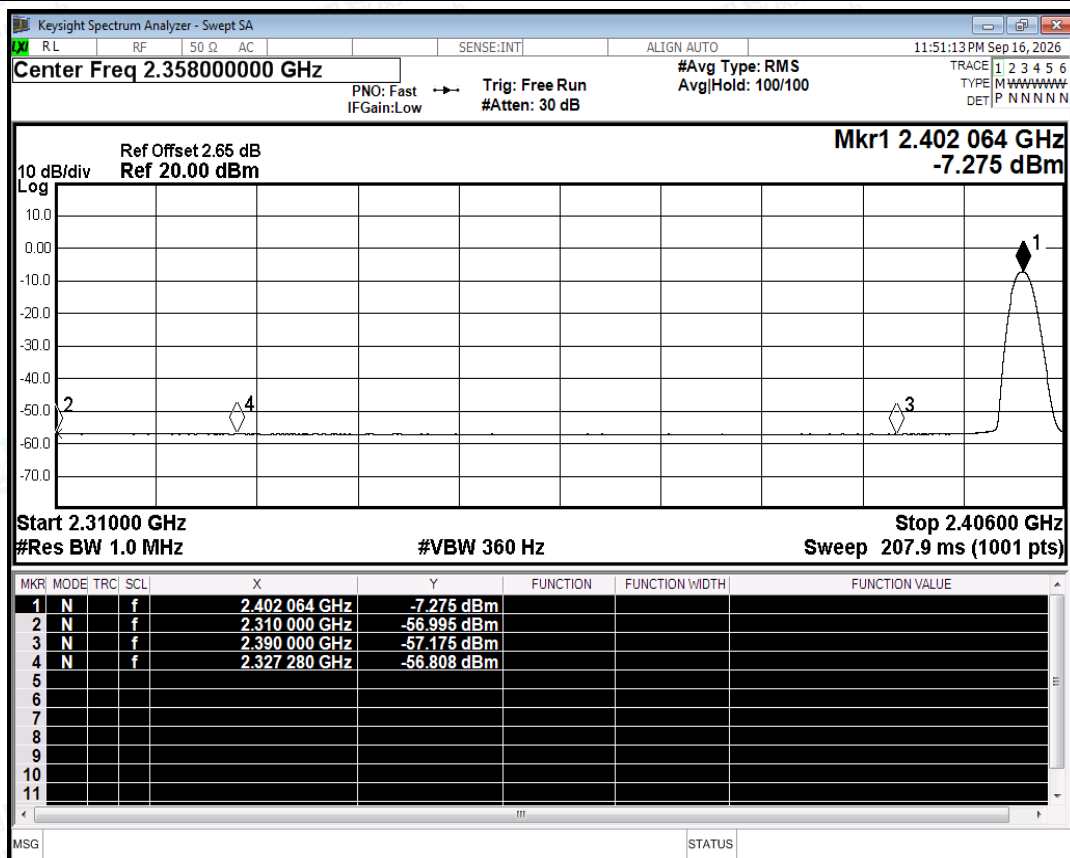
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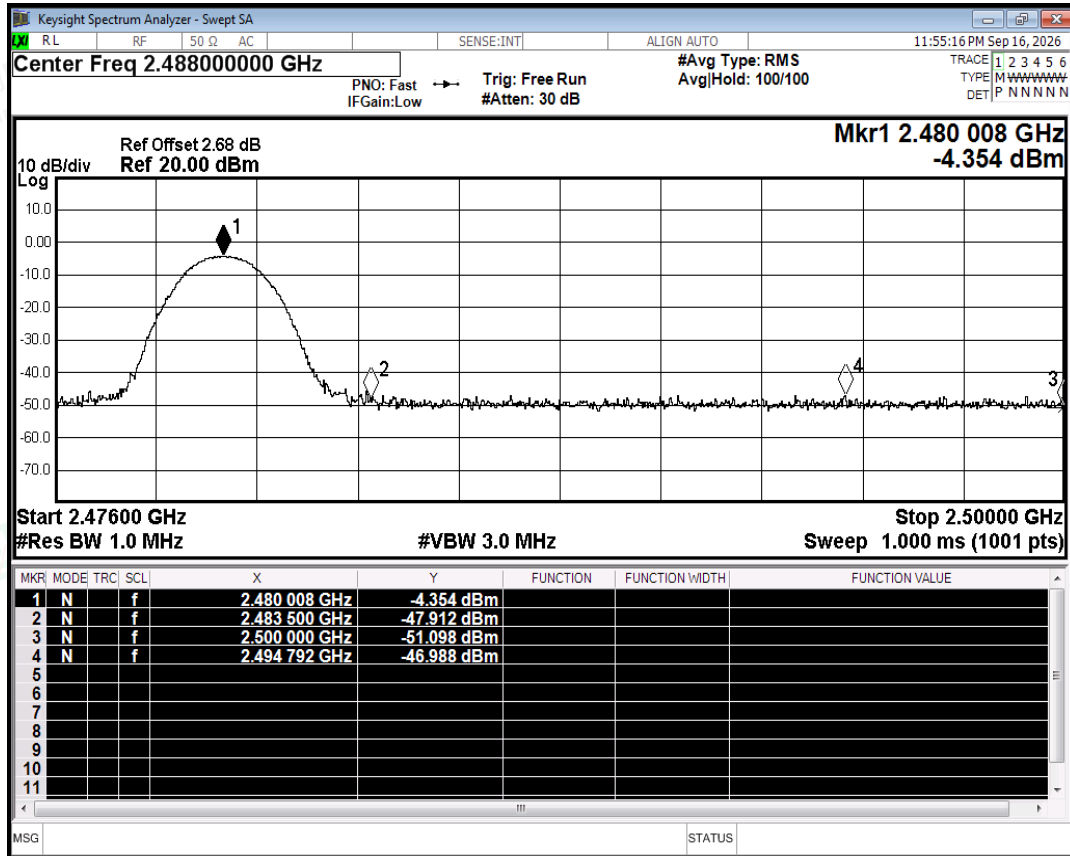
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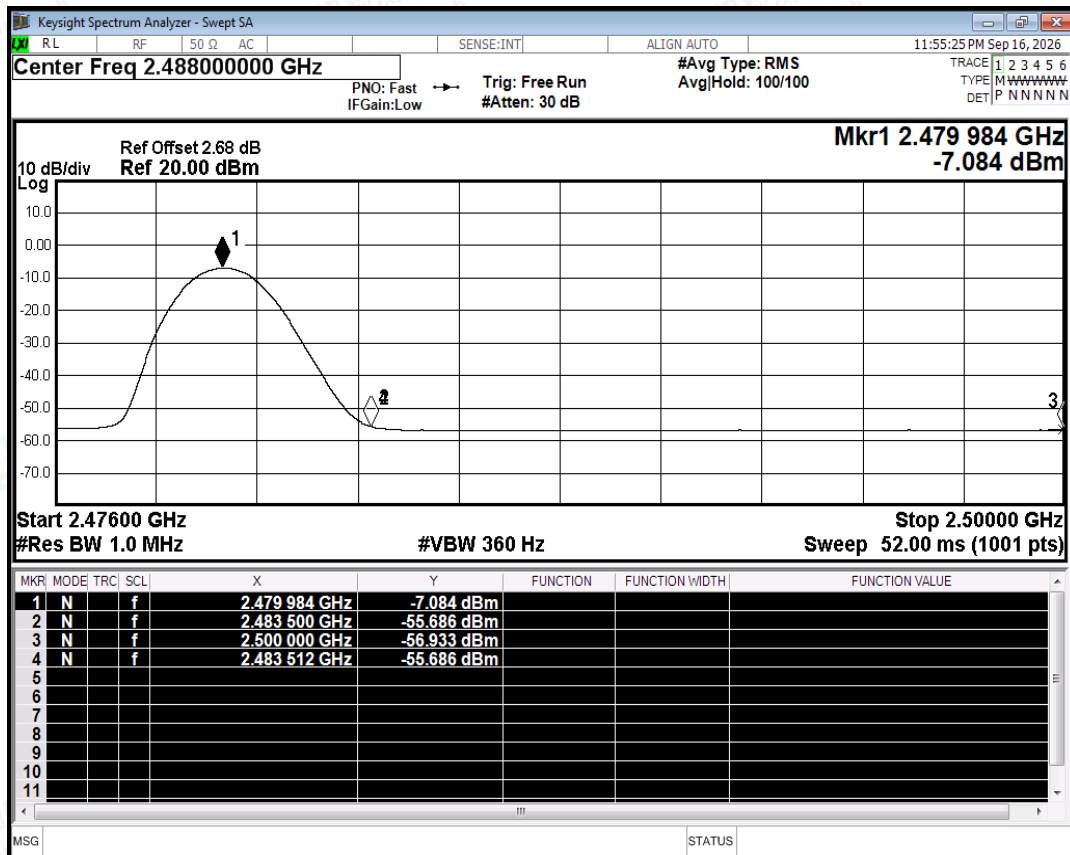
Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak



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