

FCC Appendix RF Test Data for BT

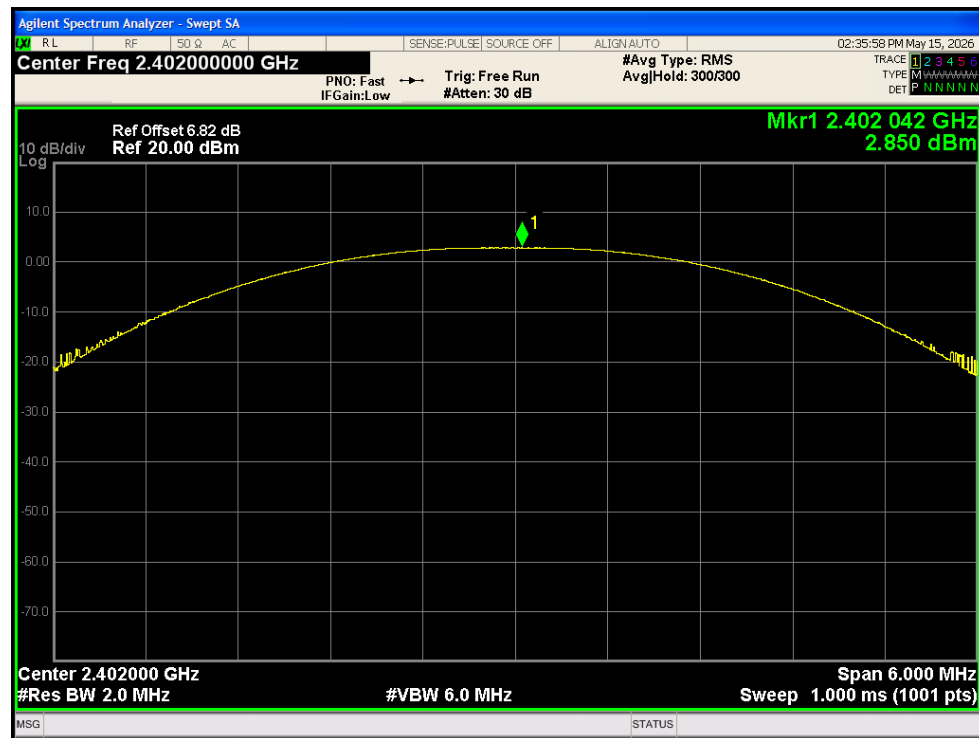
FCC ID : 2A7J2-GUTWSG3H
Company : CG Mobile SAS
EUT : TRUE WIRELESS EARPHONES
Model Number : TJG03
Report No. : CTA26032302201
Reviewed By : Eric Wang

Maximum Conducted Output Power

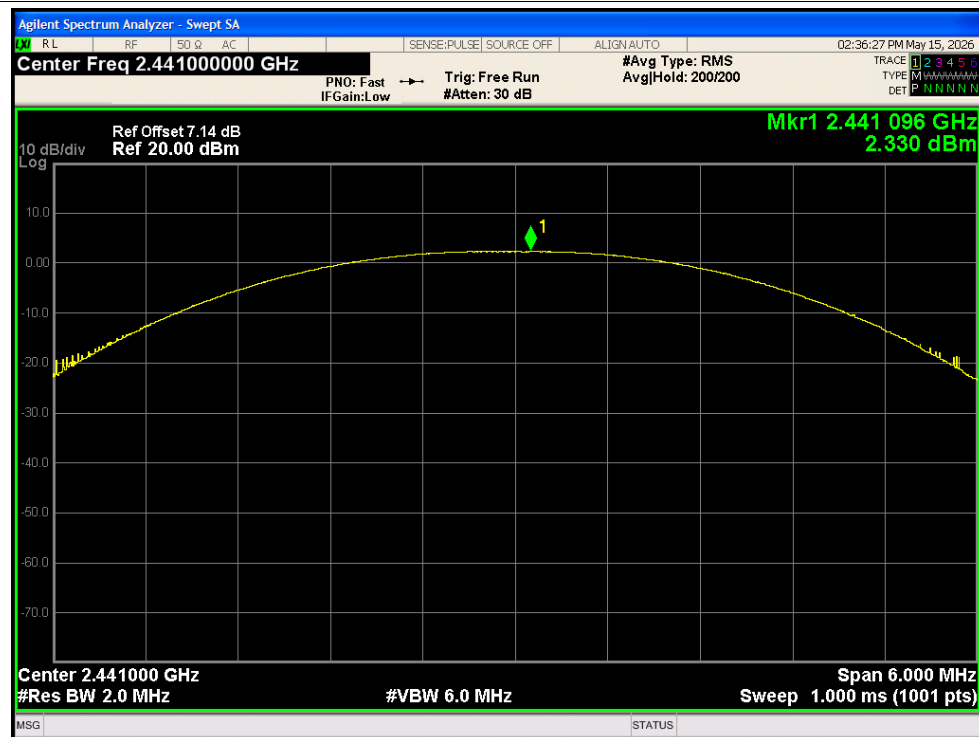
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	2.85	30	Pass
NVNT	1-DH1	2441	2.33	30	Pass
NVNT	1-DH1	2480	2.44	30	Pass
NVNT	2-DH1	2402	3.86	21	Pass
NVNT	2-DH1	2441	3.28	21	Pass
NVNT	2-DH1	2480	3.44	21	Pass

Test Graphs

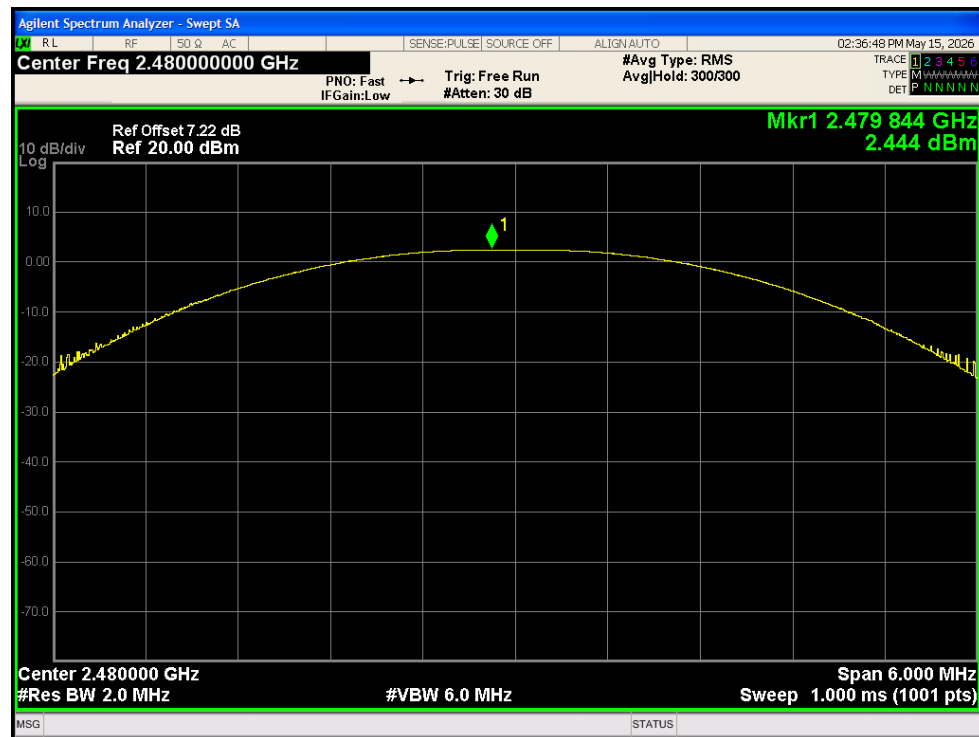
Power NVNT 1-DH1 2402MHz



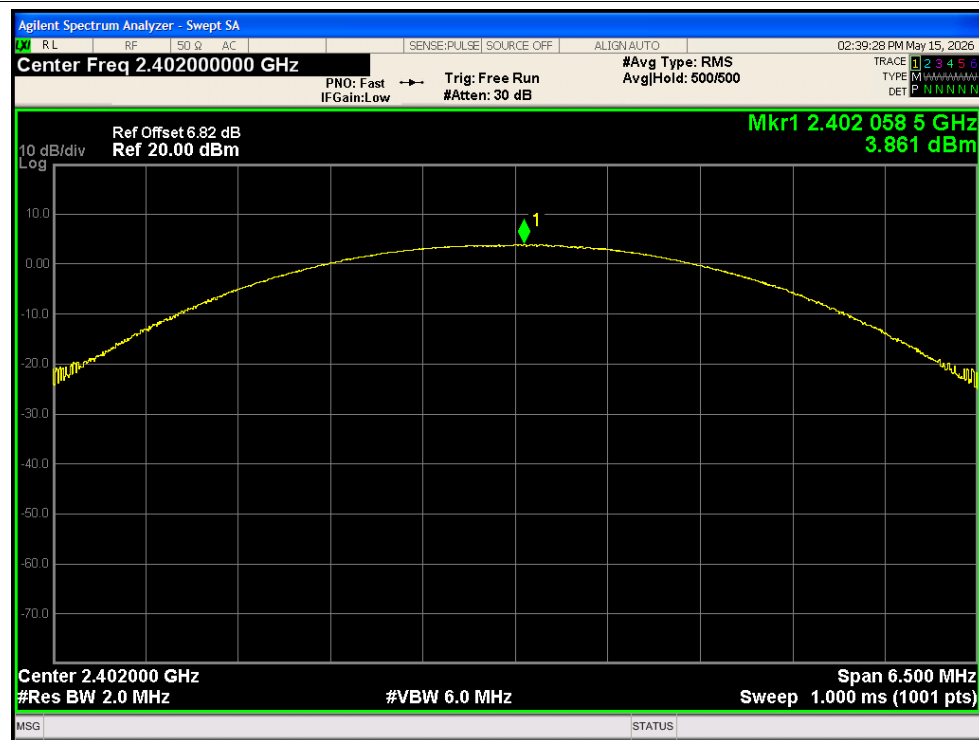
Power NVNT 1-DH1 2441MHz



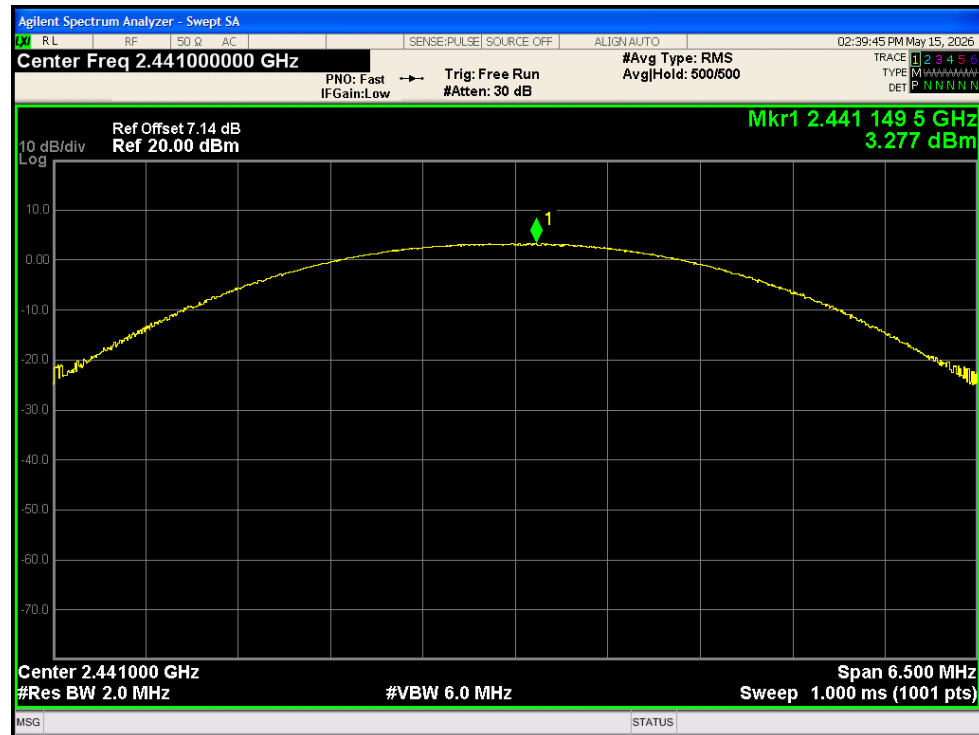
Power NVNT 1-DH1 2480MHz



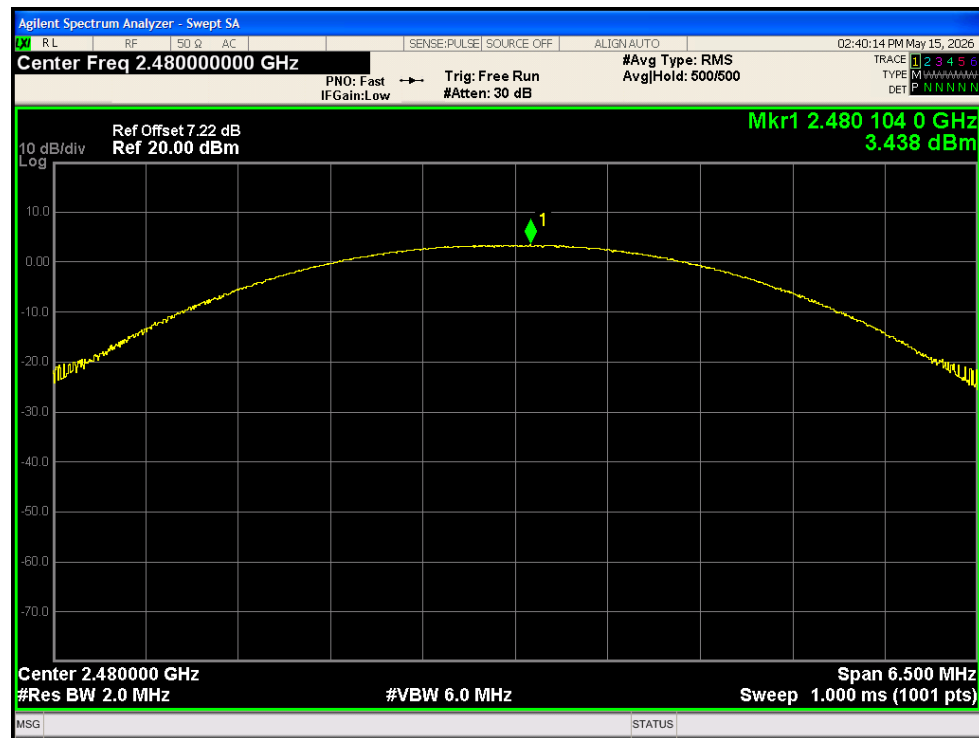
Power NVNT 2-DH1 2402MHz



Power NVNT 2-DH1 2441MHz



Power NVNT 2-DH1 2480MHz

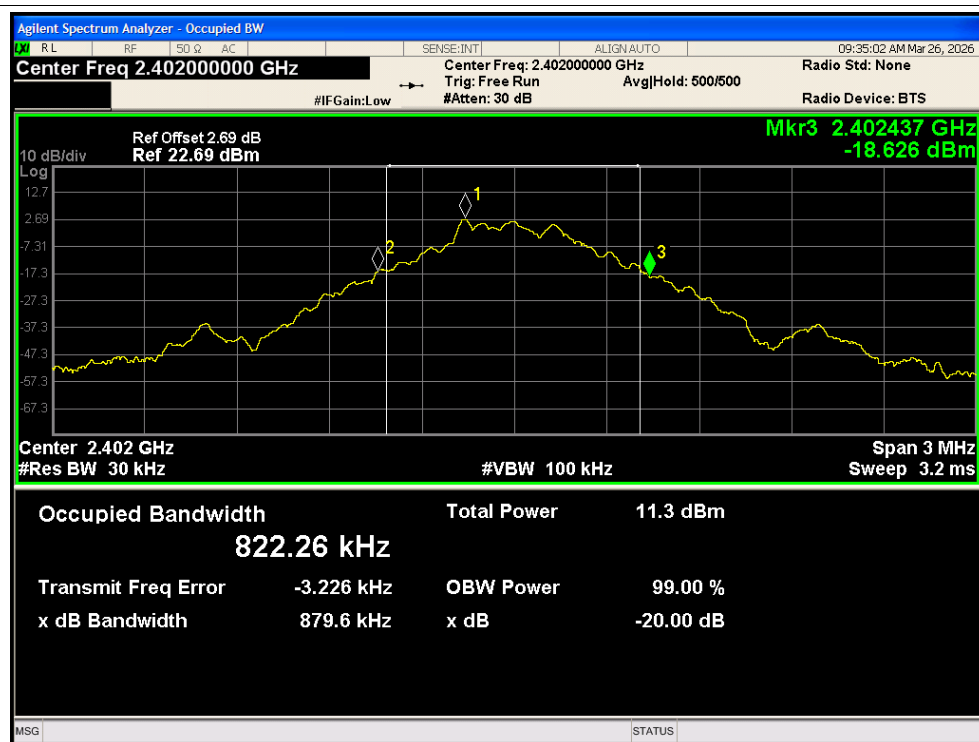


-20dB Bandwidth

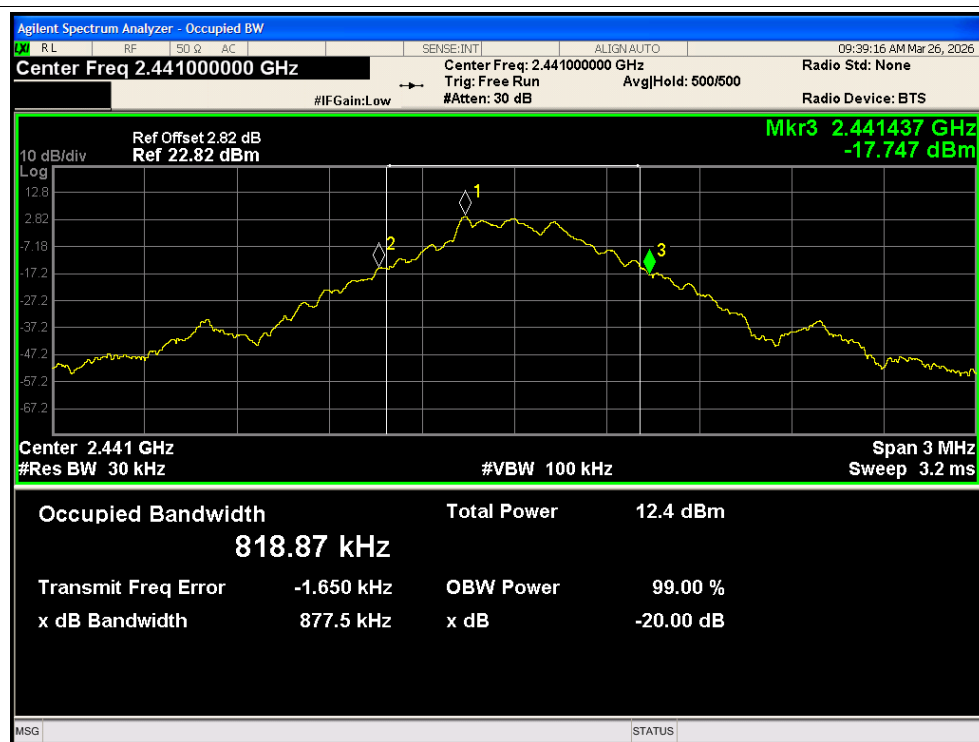
Condition	Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	0.880	Pass
NVNT	1-DH1	2441	0.878	Pass
NVNT	1-DH1	2480	0.880	Pass
NVNT	2-DH1	2402	1.256	Pass
NVNT	2-DH1	2441	1.254	Pass
NVNT	2-DH1	2480	1.255	Pass

Test Graphs

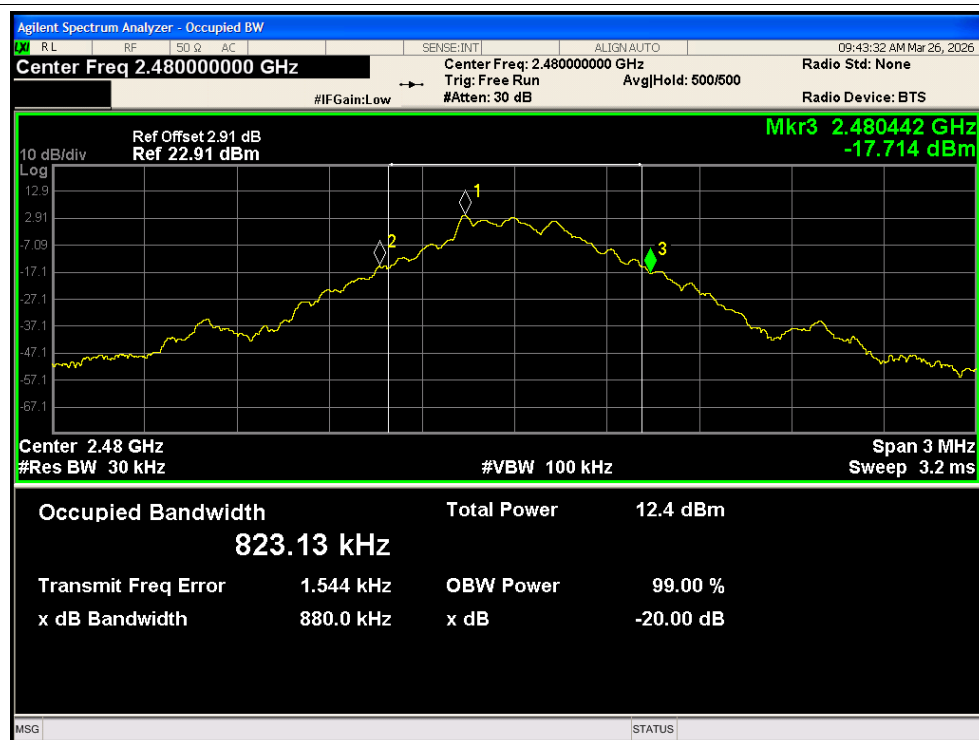
-20dB Bandwidth NVNT 1-DH1 2402MHz



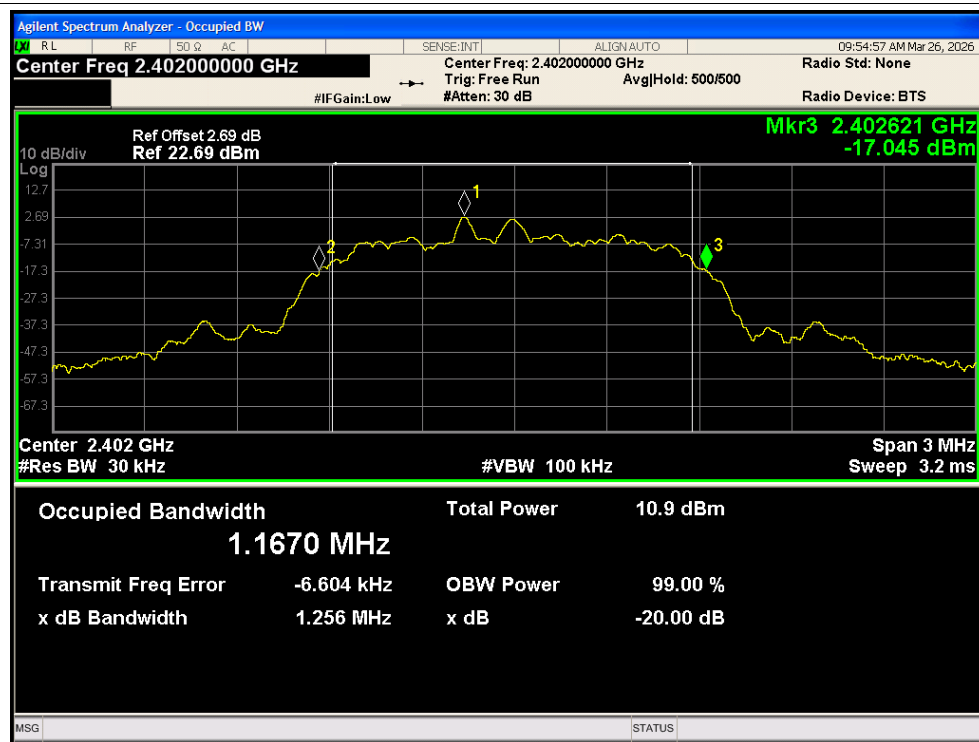
-20dB Bandwidth NVNT 1-DH1 2441MHz



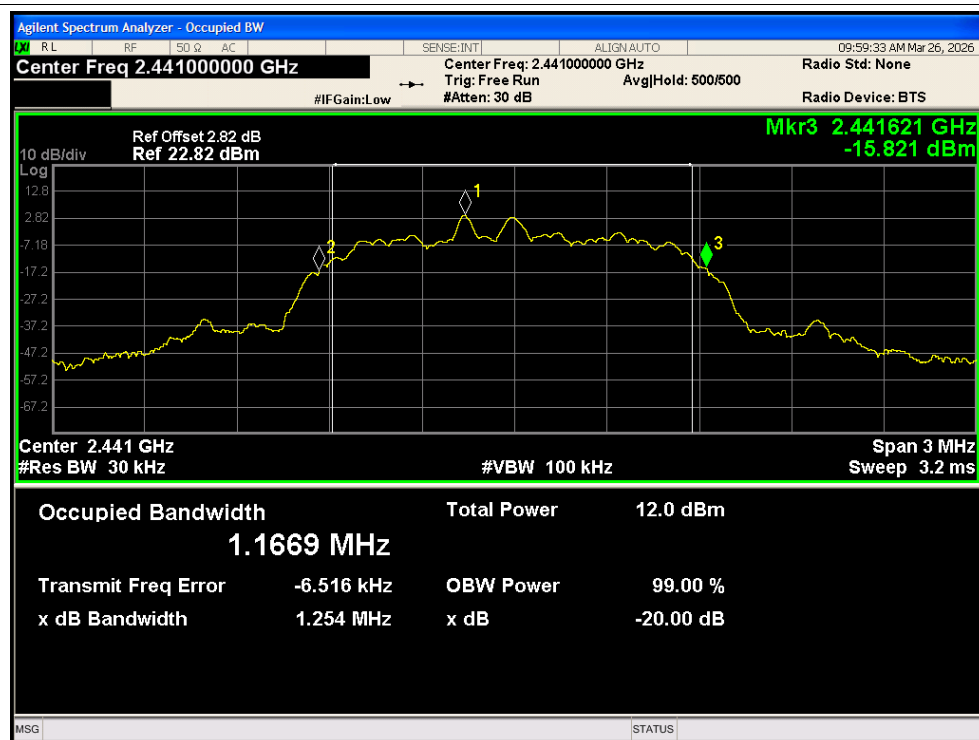
-20dB Bandwidth NVNT 1-DH1 2480MHz



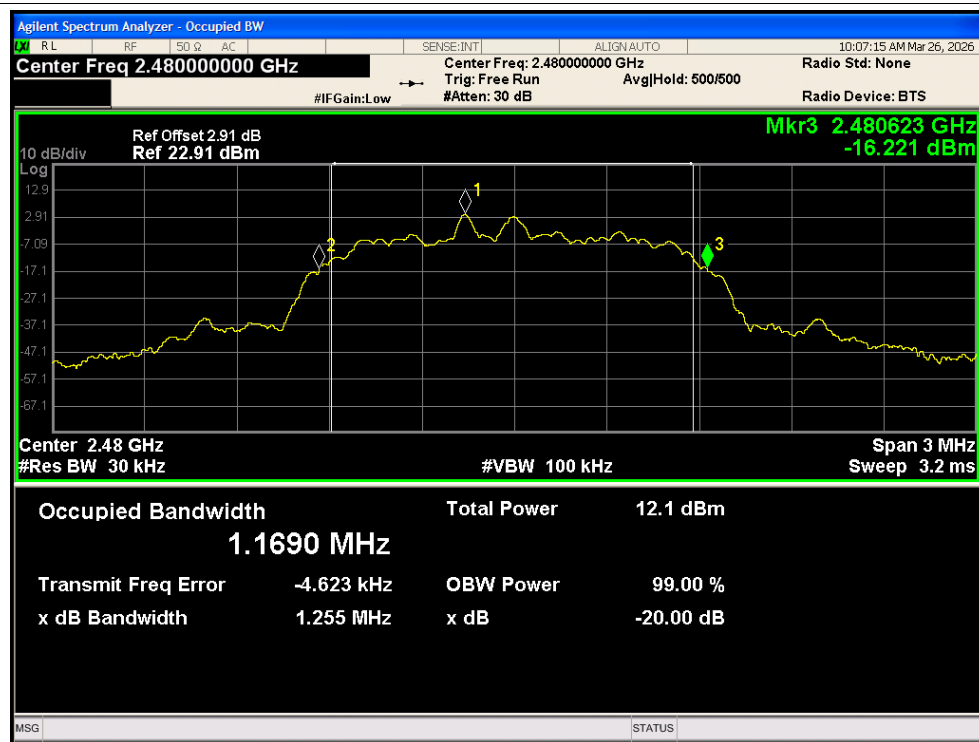
-20dB Bandwidth NVNT 2-DH1 2402MHz



-20dB Bandwidth NVNT 2-DH1 2441MHz



-20dB Bandwidth NVNT 2-DH1 2480MHz

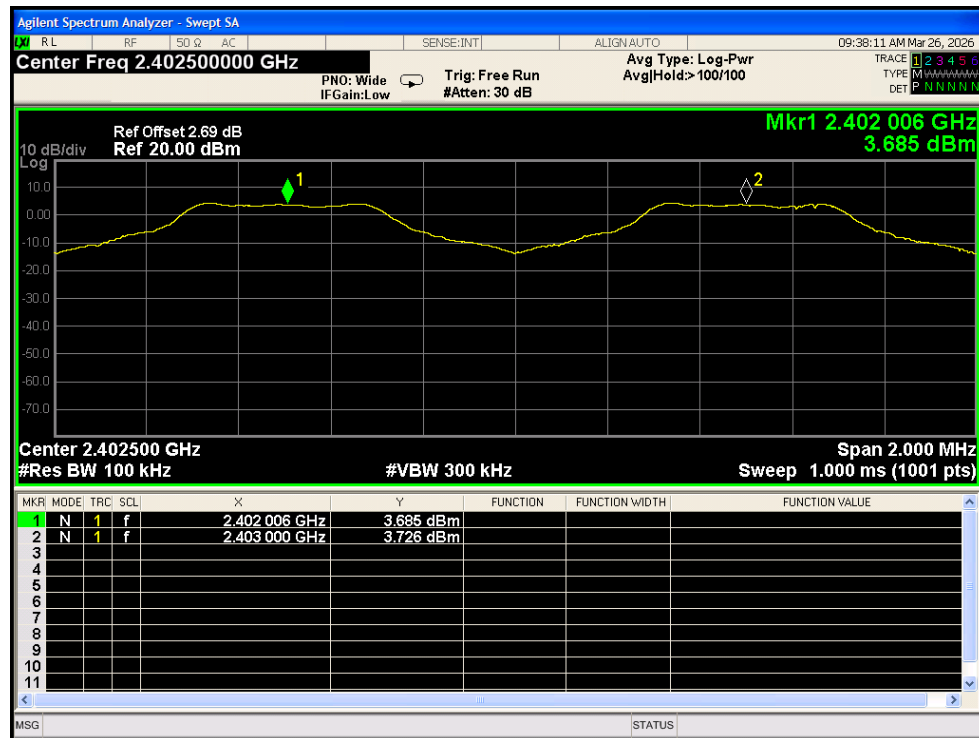


Carrier Frequencies Separation

Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	2402.006	2403.000	0.994	0.880	Pass
NVNT	1-DH1	2441.006	2442.010	1.004	0.880	Pass
NVNT	1-DH1	2479.005	2480.003	0.998	0.880	Pass
NVNT	2-DH1	2402.074	2403.074	1.000	0.837	Pass
NVNT	2-DH1	2440.990	2441.988	0.998	0.837	Pass
NVNT	2-DH1	2479.068	2480.067	0.999	0.837	Pass

Test Graphs

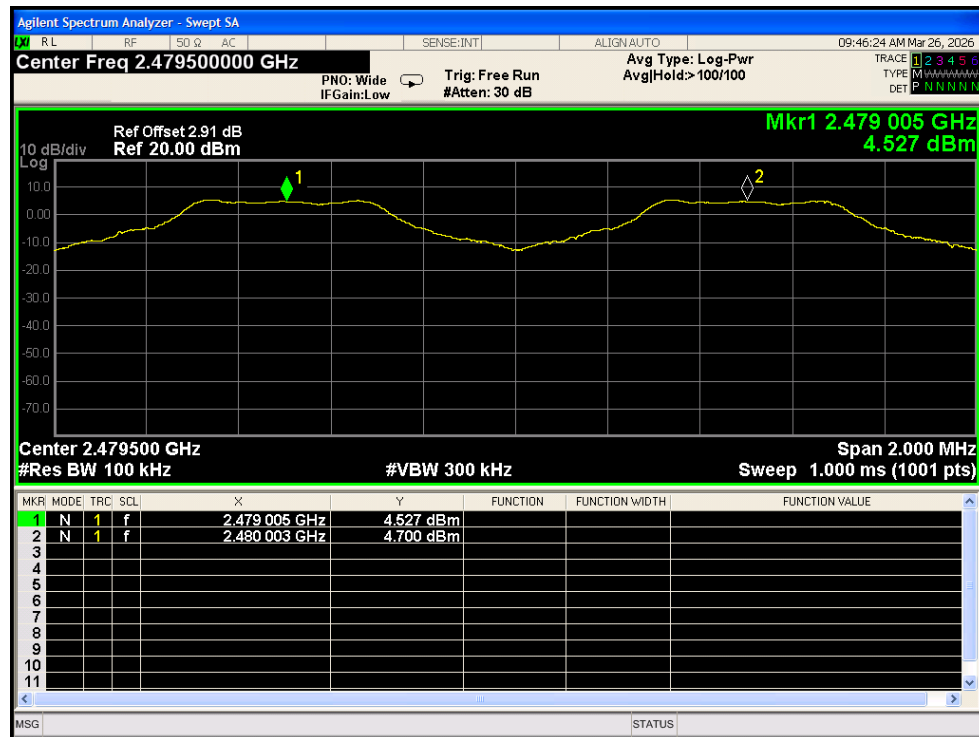
CFS NVNT 1-DH1 2402MHz



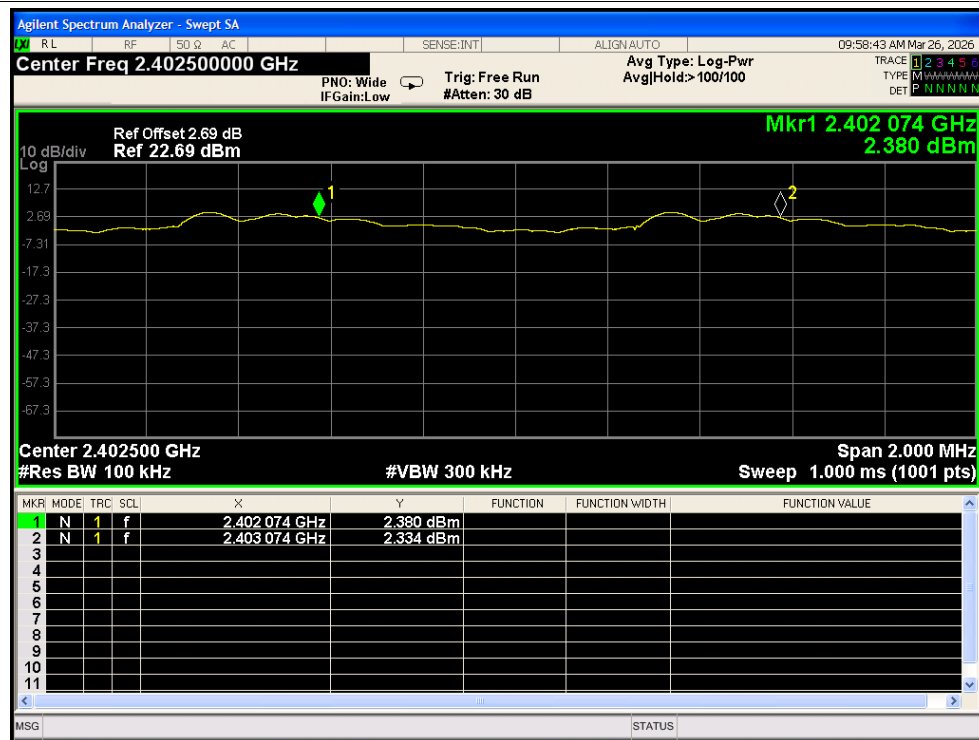
CFS NVNT 1-DH1 2441MHz



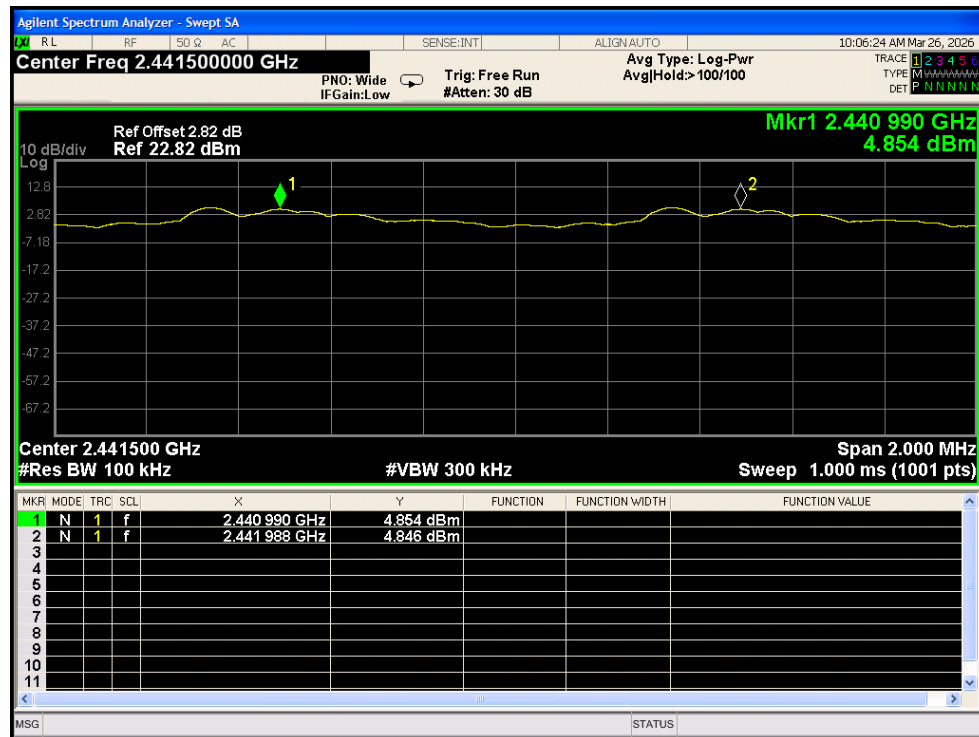
CFS NVNT 1-DH1 2480MHz



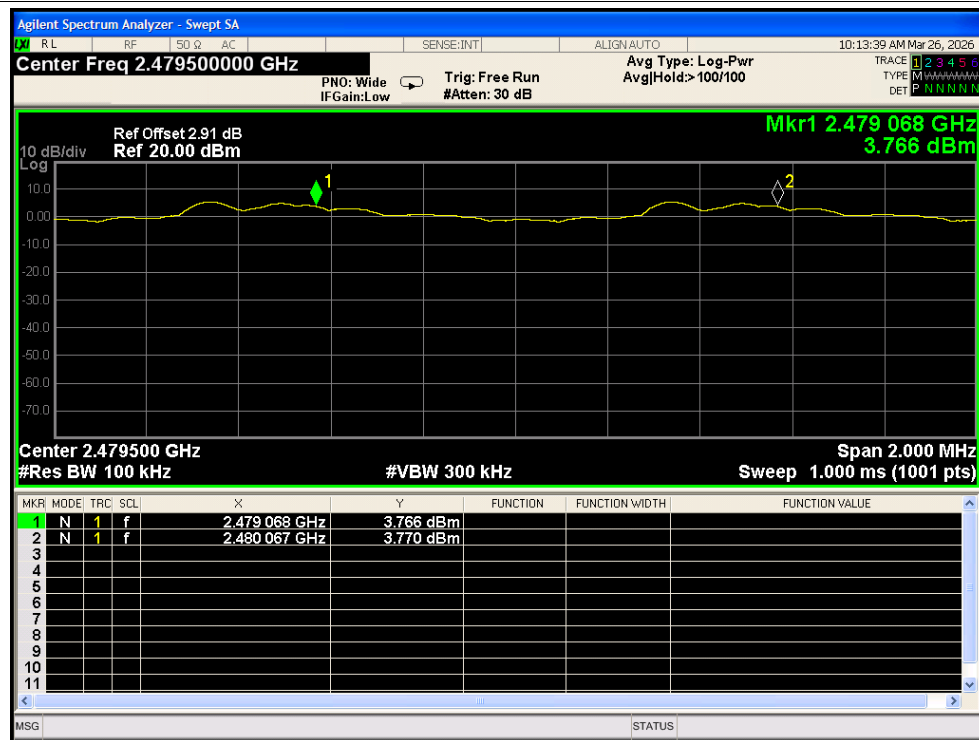
CFS NVNT 2-DH1 2402MHz



CFS NVNT 2-DH1 2441MHz



CFS NVNT 2-DH1 2480MHz

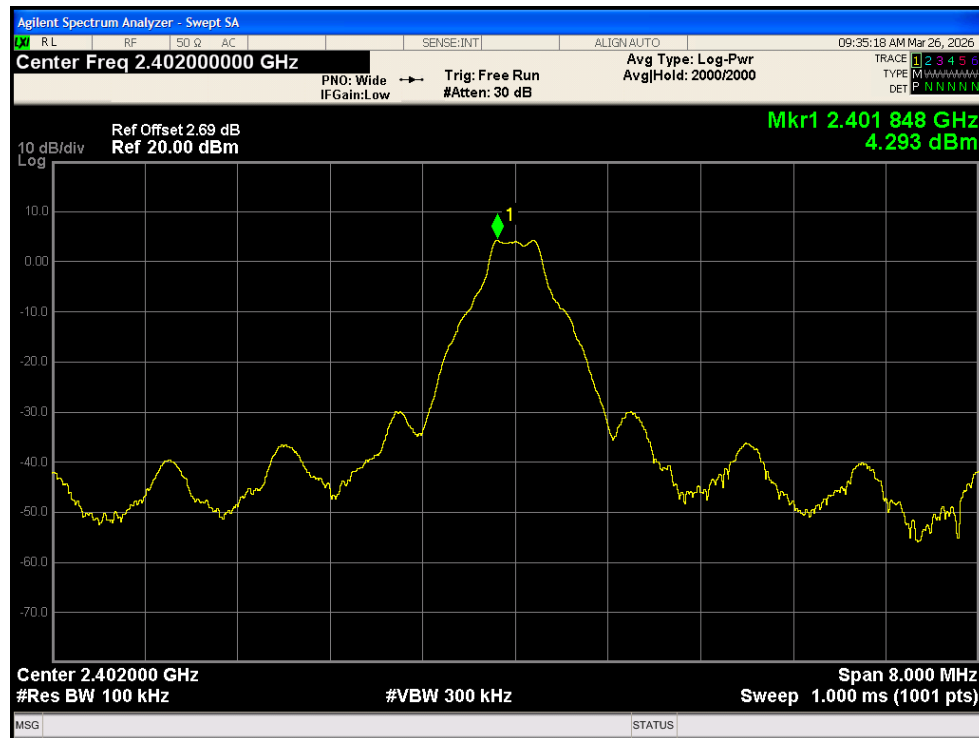


Band Edge

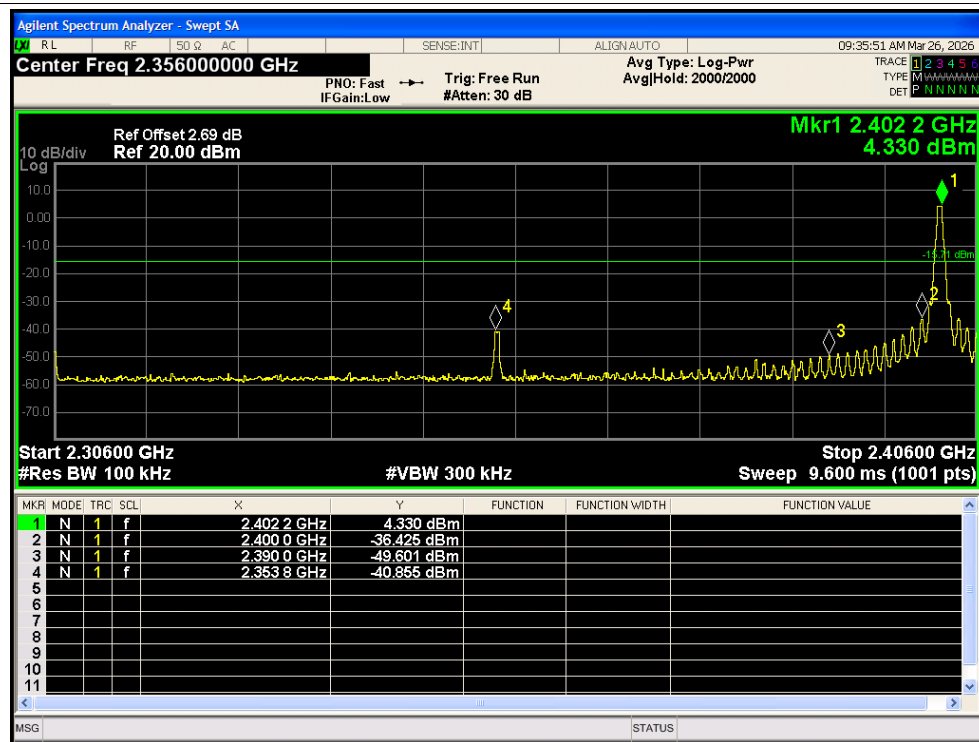
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	-45.14	-20	Pass
NVNT	1-DH1	2480	-46.12	-20	Pass
NVNT	2-DH1	2402	-45.16	-20	Pass
NVNT	2-DH1	2480	-46.37	-20	Pass

Test Graphs

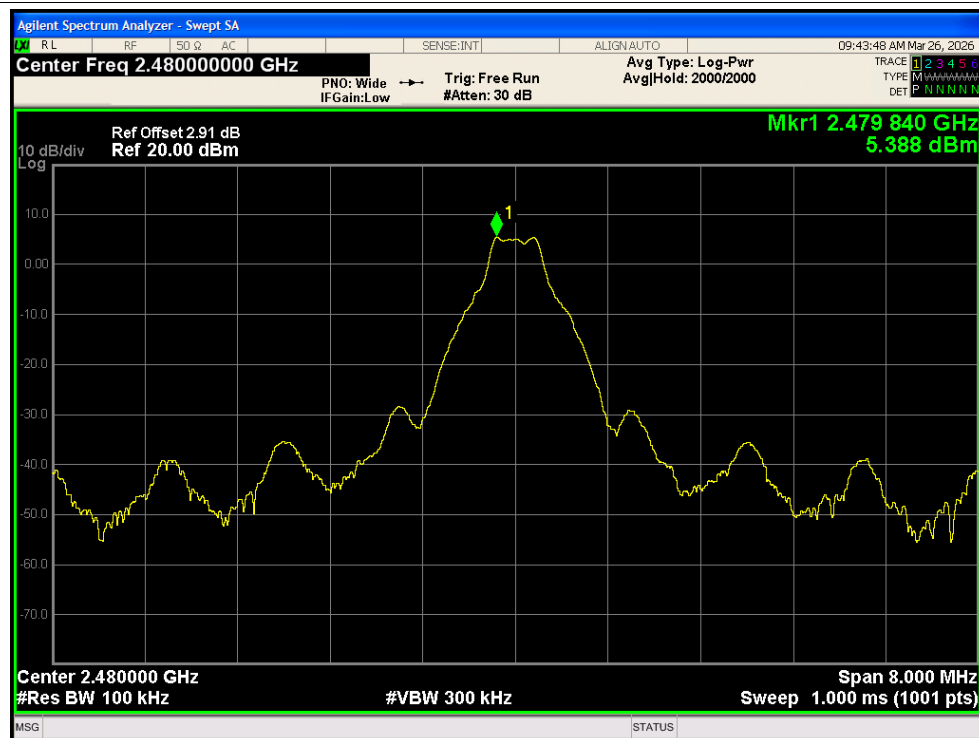
Band Edge NVNT 1-DH1 2402MHz Ref



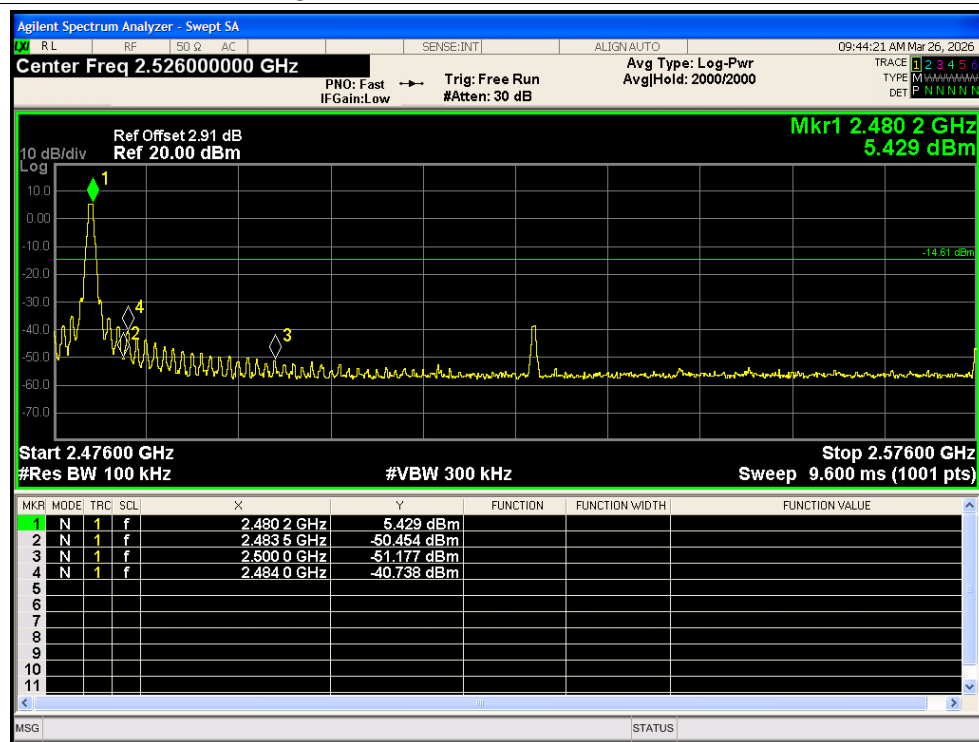
Band Edge NVNT 1-DH1 2402MHz Emission



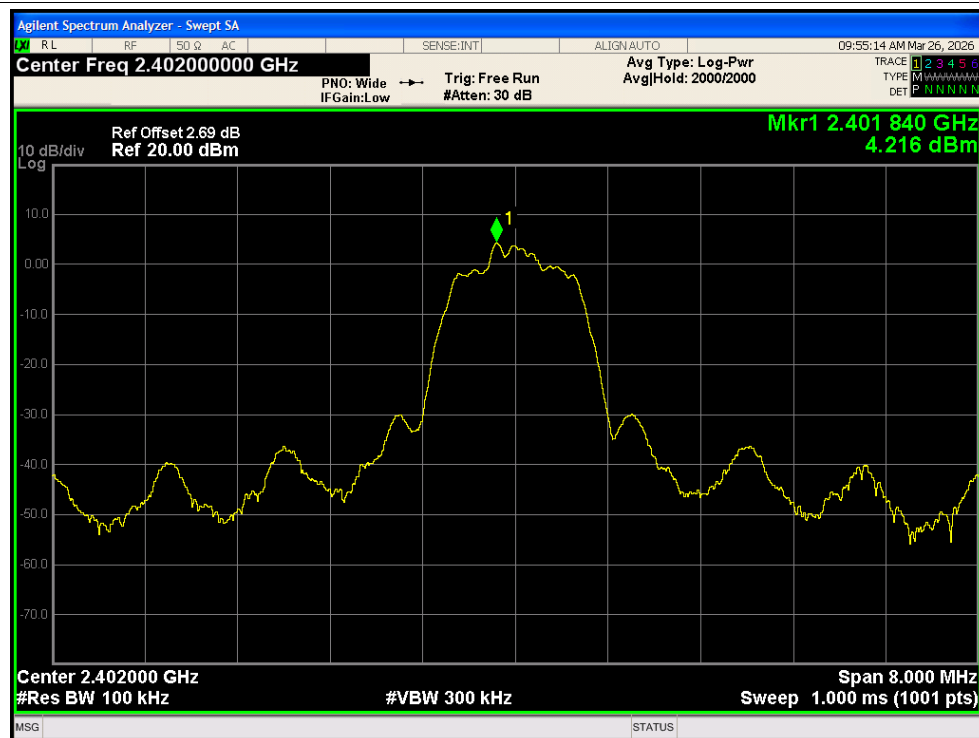
Band Edge NVNT 1-DH1 2480MHz Ref



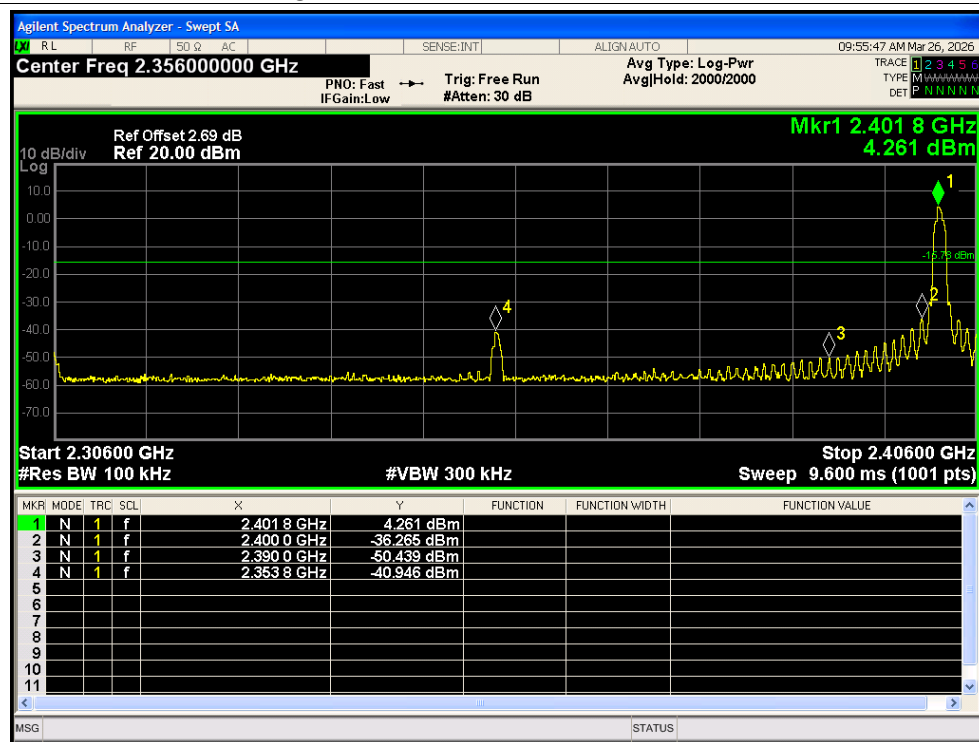
Band Edge NVNT 1-DH1 2480MHz Emission



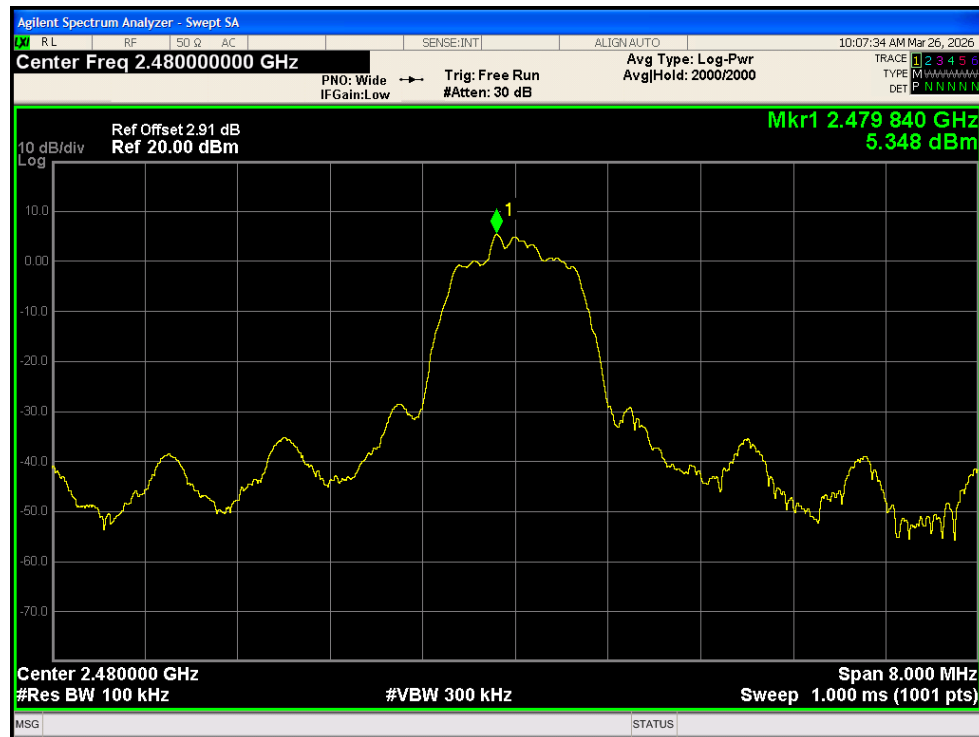
Band Edge NVNT 2-DH1 2402MHz Ref



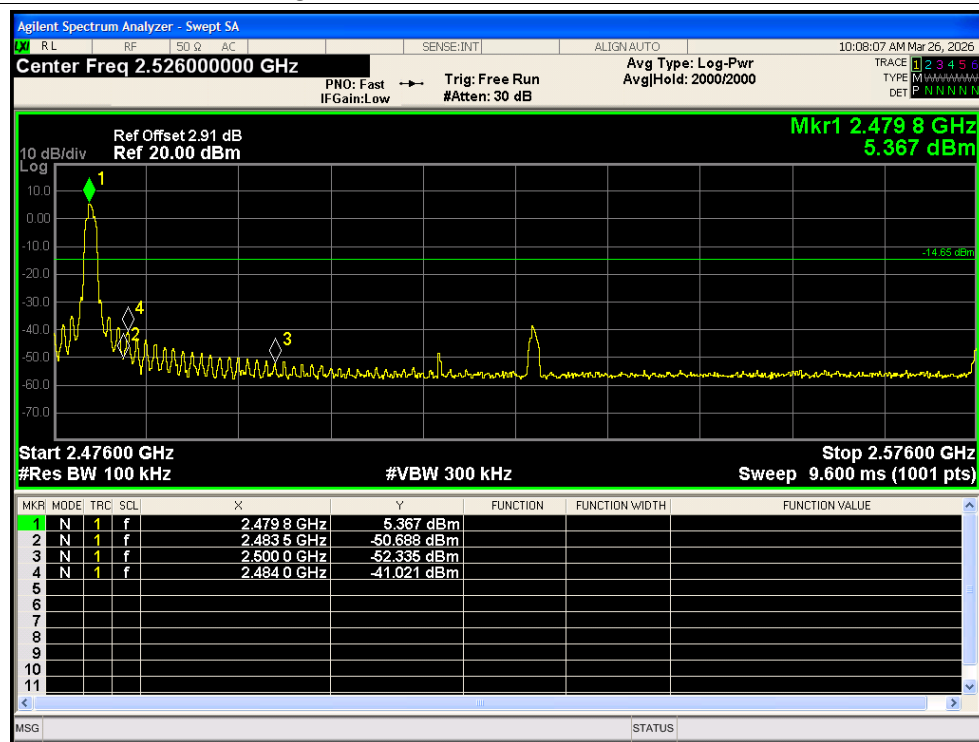
Band Edge NVNT 2-DH1 2402MHz Emission



Band Edge NVNT 2-DH1 2480MHz Ref



Band Edge NVNT 2-DH1 2480MHz Emission

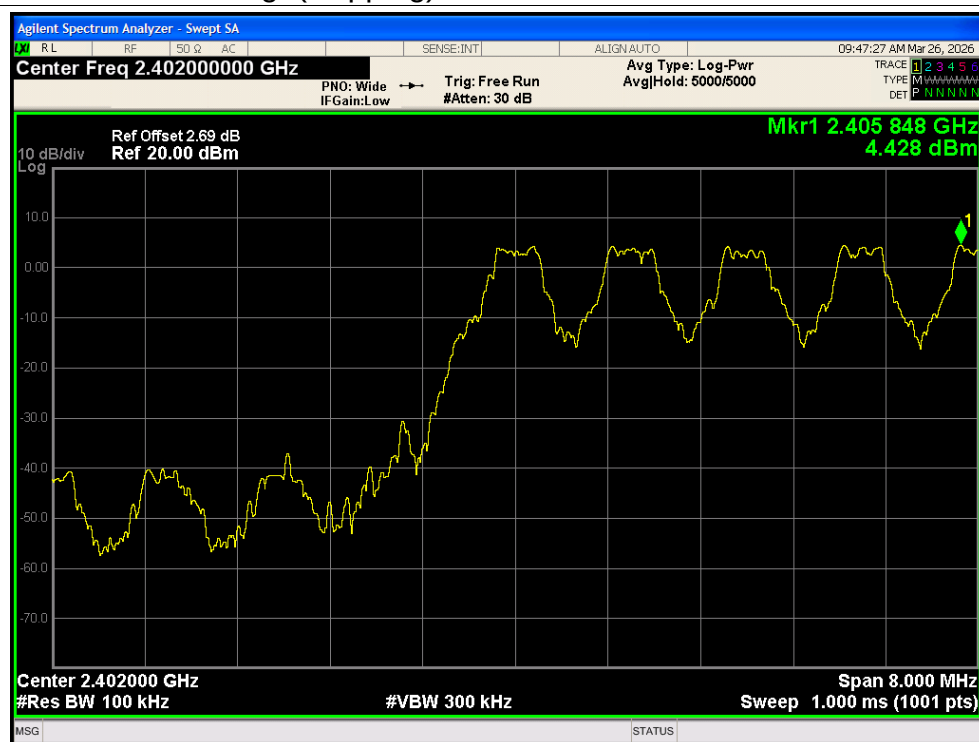


Band Edge(Hopping)

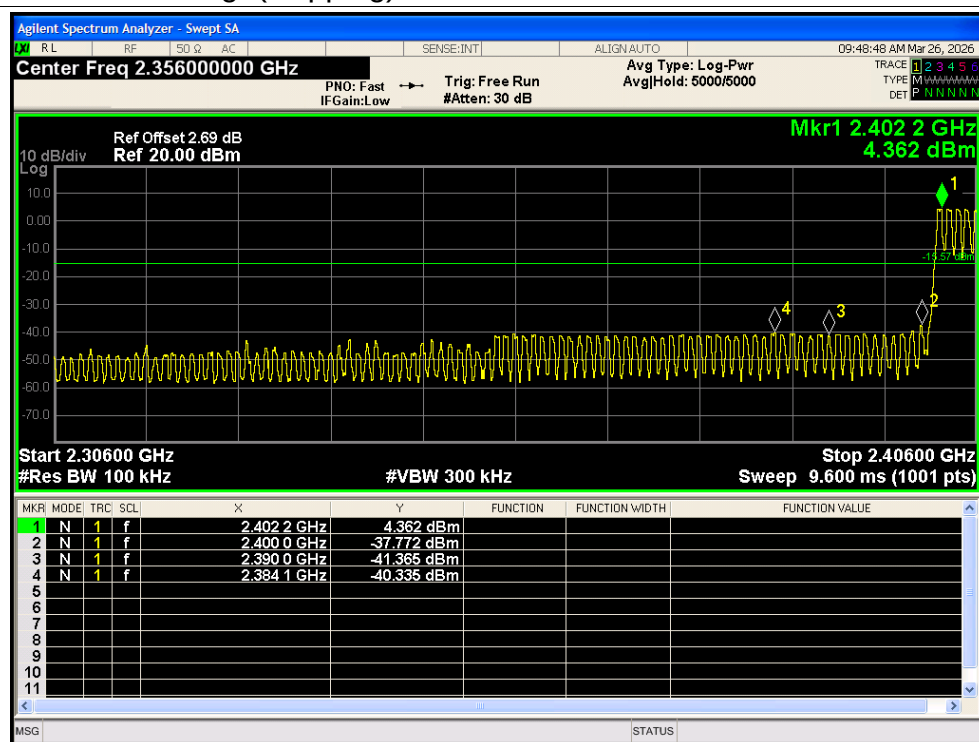
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	-44.76	-20	Pass
NVNT	1-DH1	2480	-45.12	-20	Pass
NVNT	2-DH1	2402	-44.62	-20	Pass
NVNT	2-DH1	2480	-44.81	-20	Pass

Test Graphs

Band Edge(Hopping) NVNT 1-DH1 2402MHz Ref



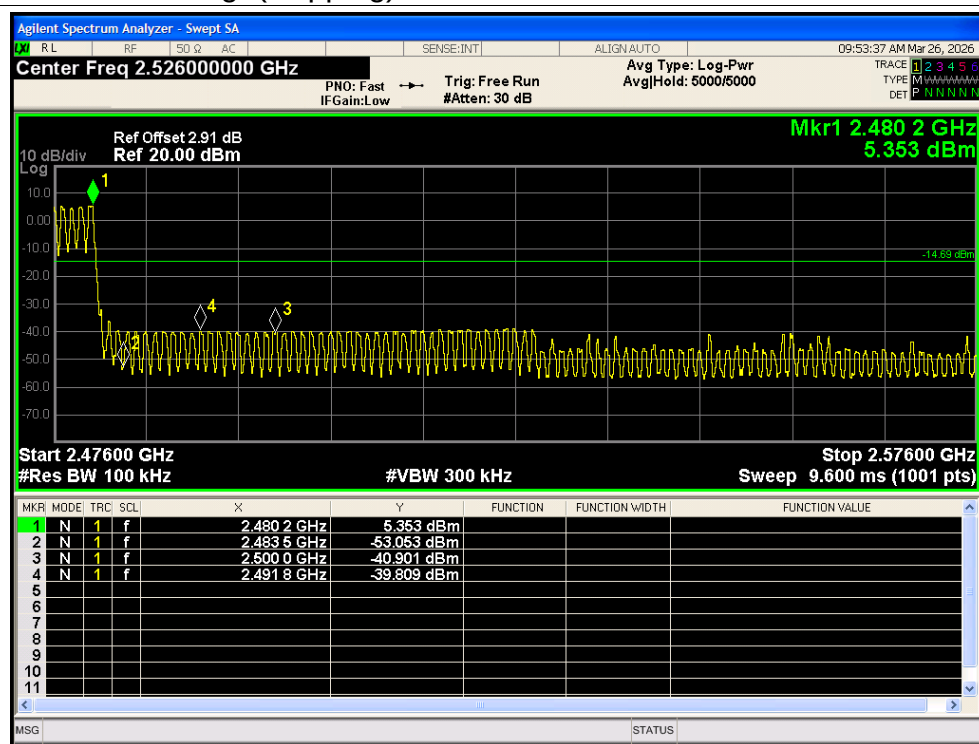
Band Edge(Hopping) NVNT 1-DH1 2402MHz Emission



Band Edge(Hopping) NVNT 1-DH1 2480MHz Ref



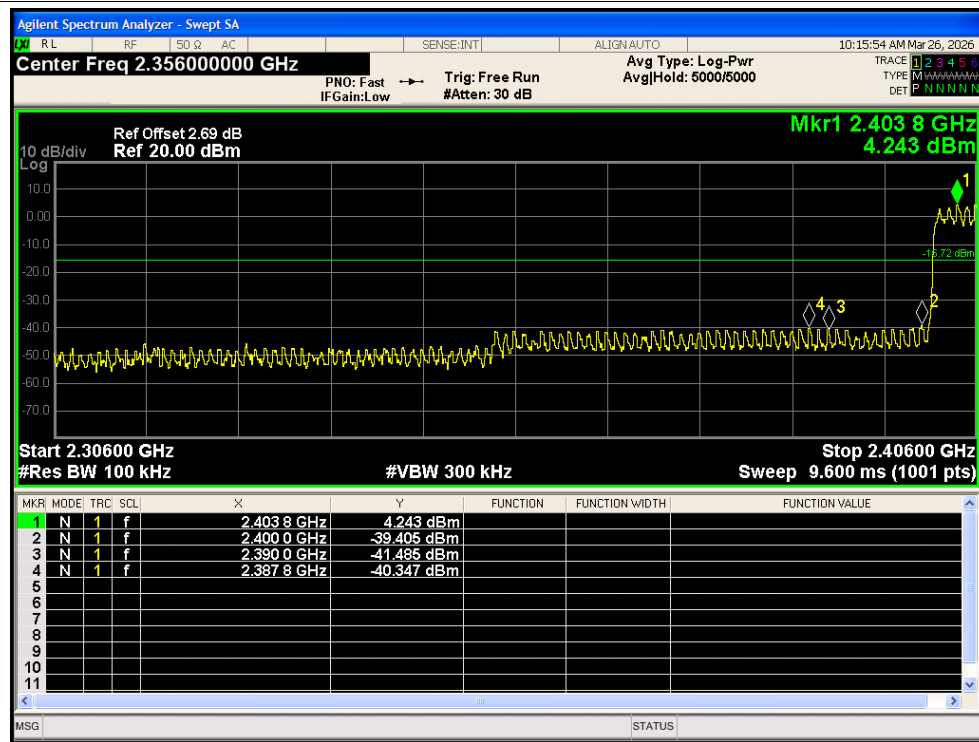
Band Edge(Hopping) NVNT 1-DH1 2480MHz Emission



Band Edge(Hopping) NVNT 2-DH1 2402MHz Ref



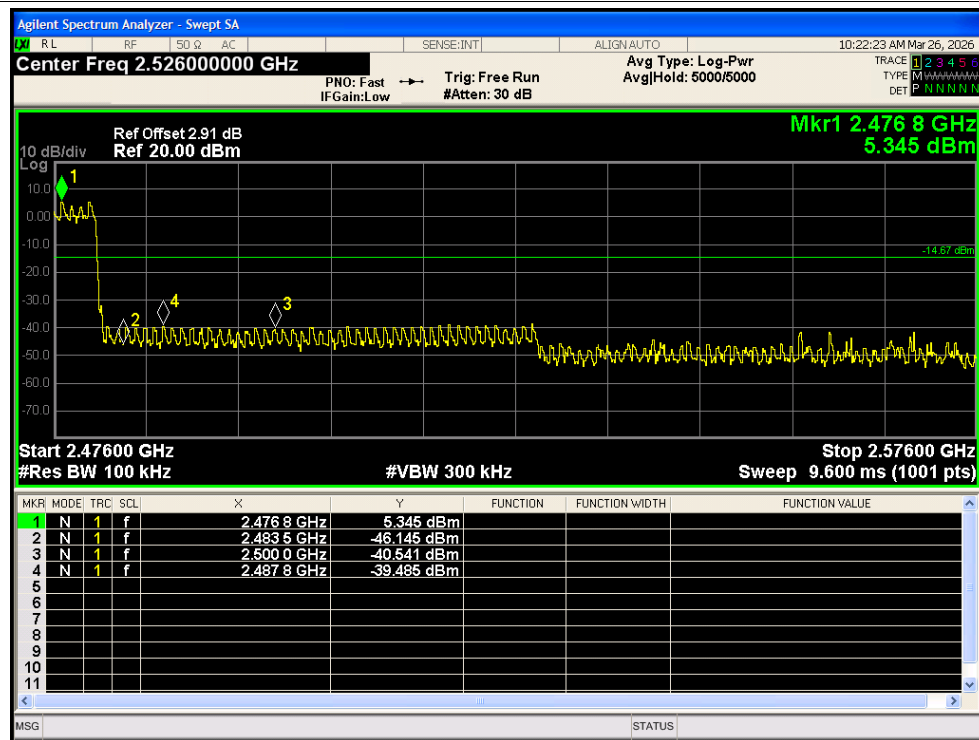
Band Edge(Hopping) NVNT 2-DH1 2402MHz Emission



Band Edge(Hopping) NVNT 2-DH1 2480MHz Ref



Band Edge(Hopping) NVNT 2-DH1 2480MHz Emission

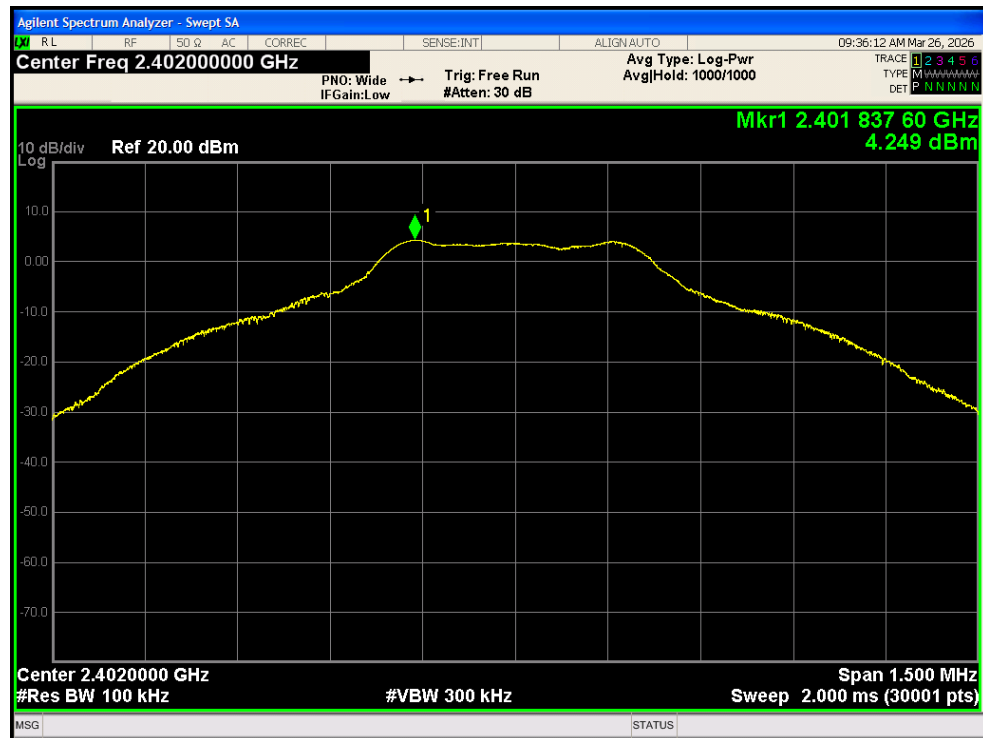


Conducted RF Spurious Emission

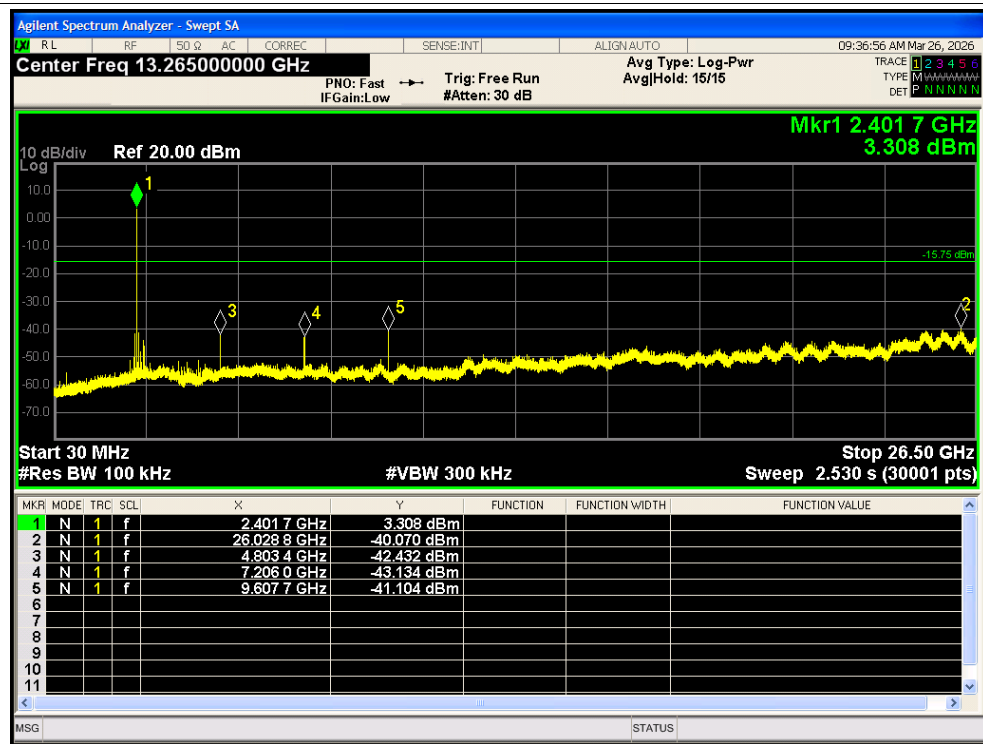
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	-44.31	-20	Pass
NVNT	1-DH1	2441	-45.54	-20	Pass
NVNT	1-DH1	2480	-45.38	-20	Pass
NVNT	2-DH1	2402	-44.20	-20	Pass
NVNT	2-DH1	2441	-44.55	-20	Pass
NVNT	2-DH1	2480	-45.48	-20	Pass

Test Graphs

Tx. Spurious NVNT 1-DH1 2402MHz Ref



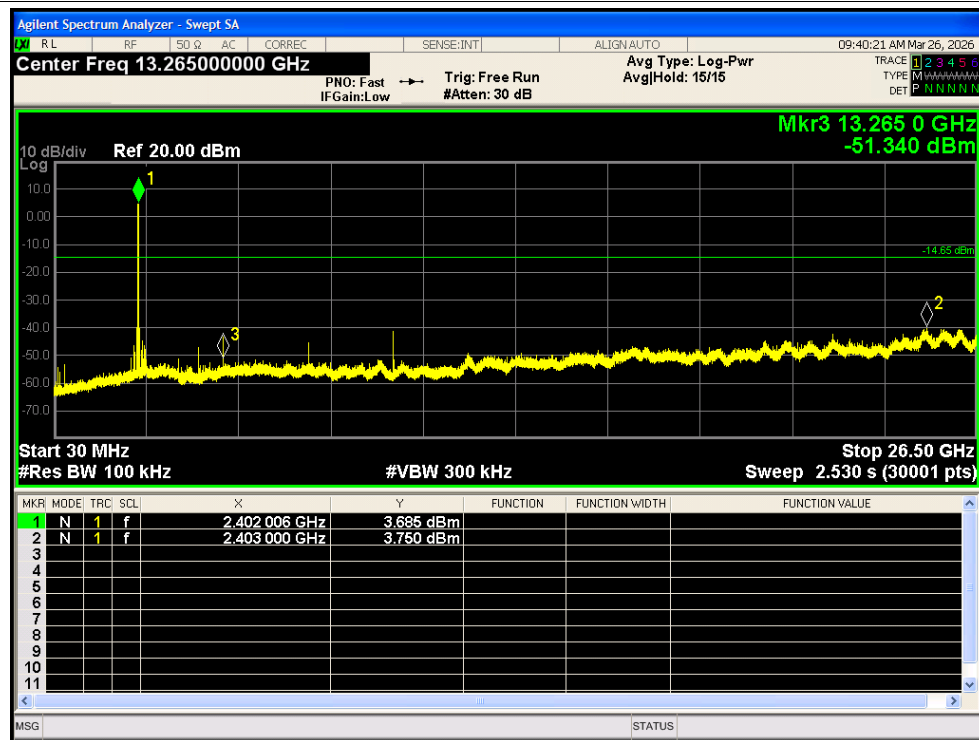
Tx. Spurious NVNT 1-DH1 2402MHz Emission



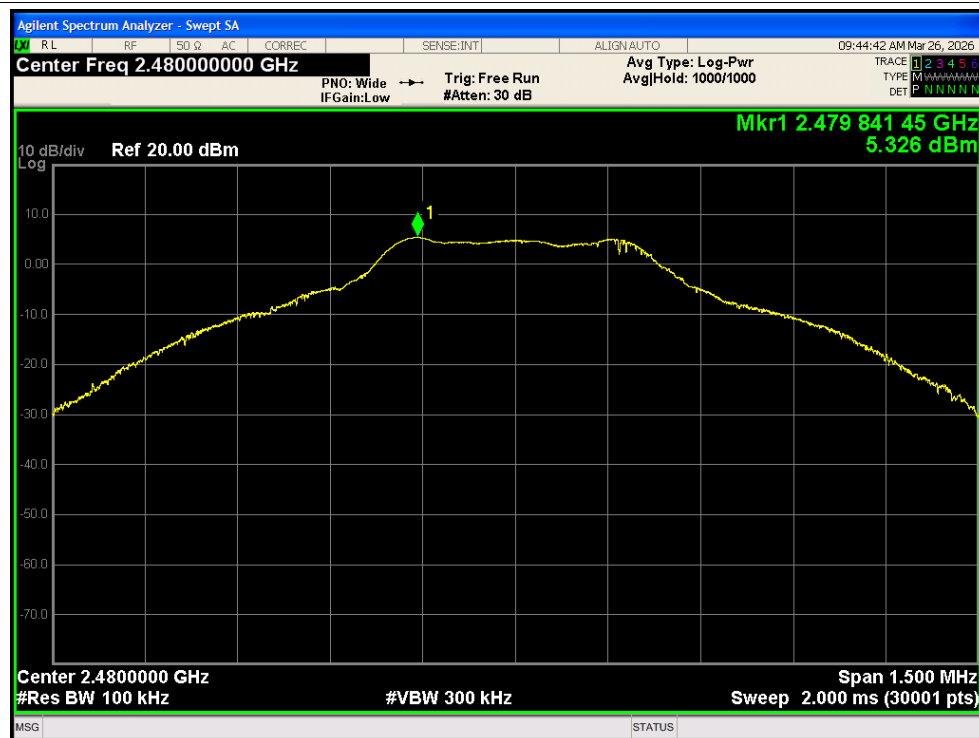
Tx. Spurious NVNT 1-DH1 2441MHz Ref



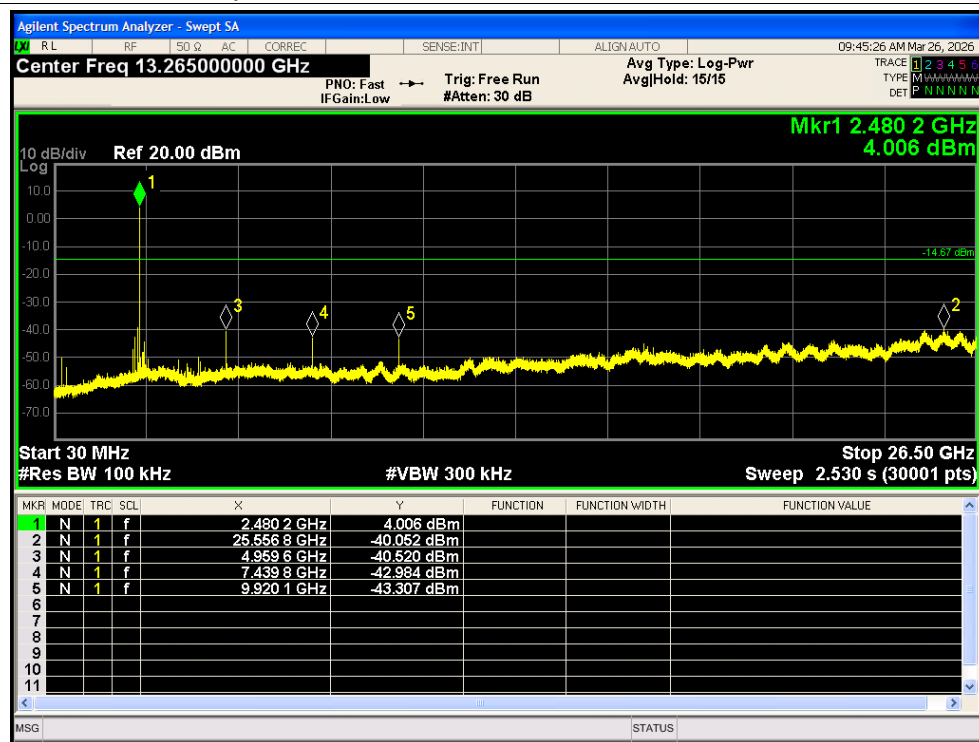
Tx. Spurious NVNT 1-DH1 2441MHz Emission



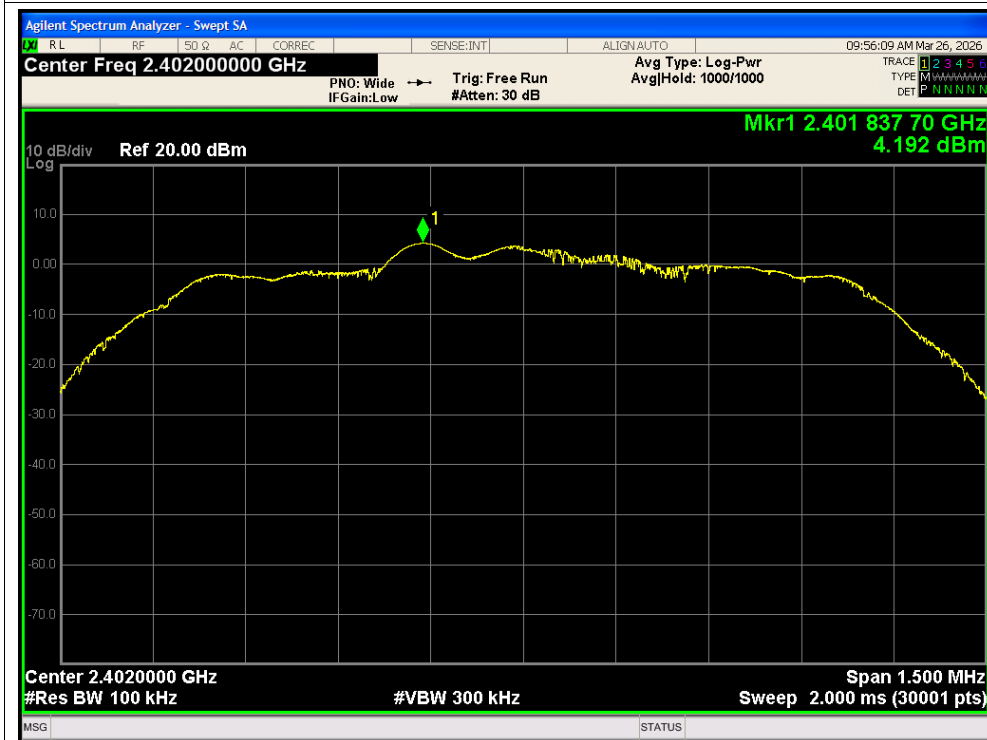
Tx. Spurious NVNT 1-DH1 2480MHz Ref



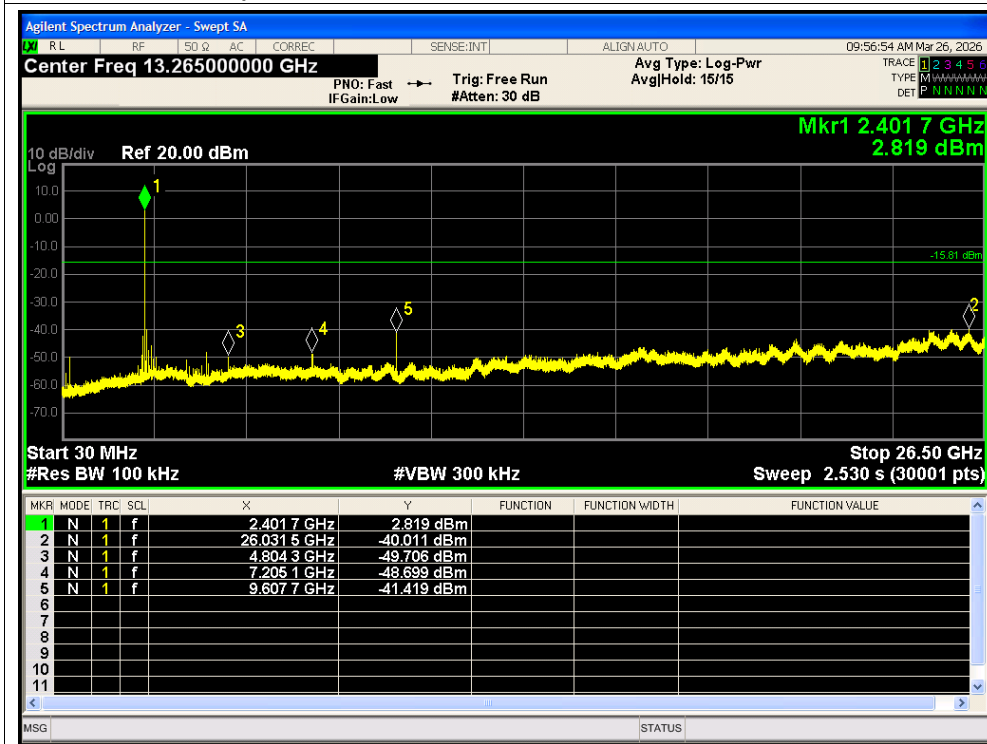
Tx. Spurious NVNT 1-DH1 2480MHz Emission



Tx. Spurious NVNT 2-DH1 2402MHz Ref



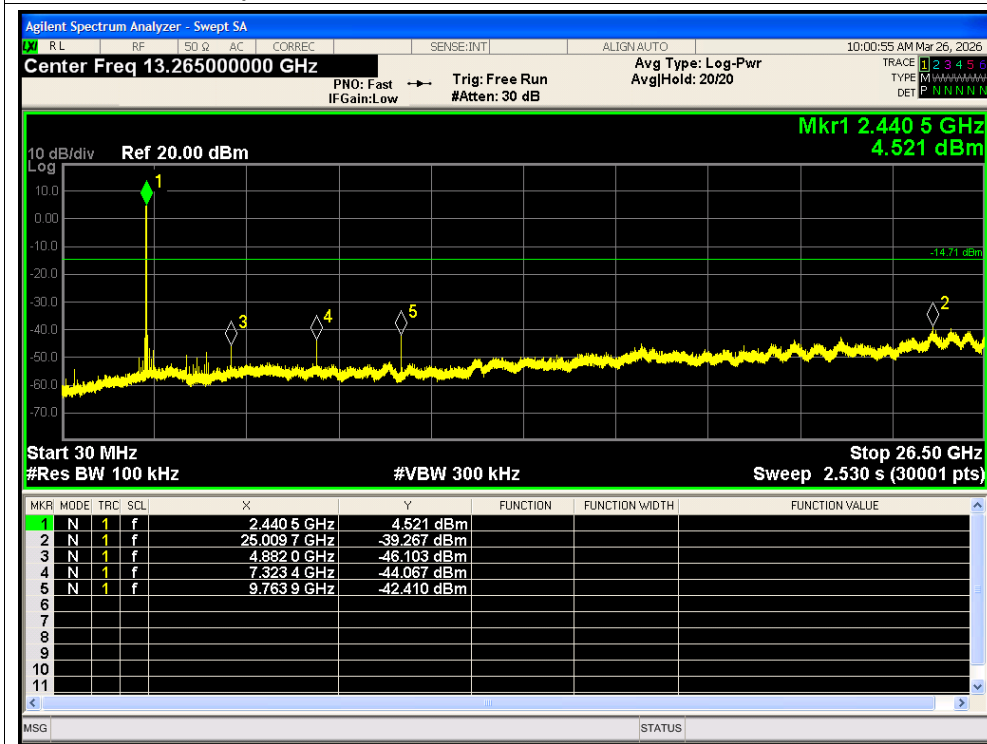
Tx. Spurious NVNT 2-DH1 2402MHz Emission



Tx. Spurious NVNT 2-DH1 2441MHz Ref



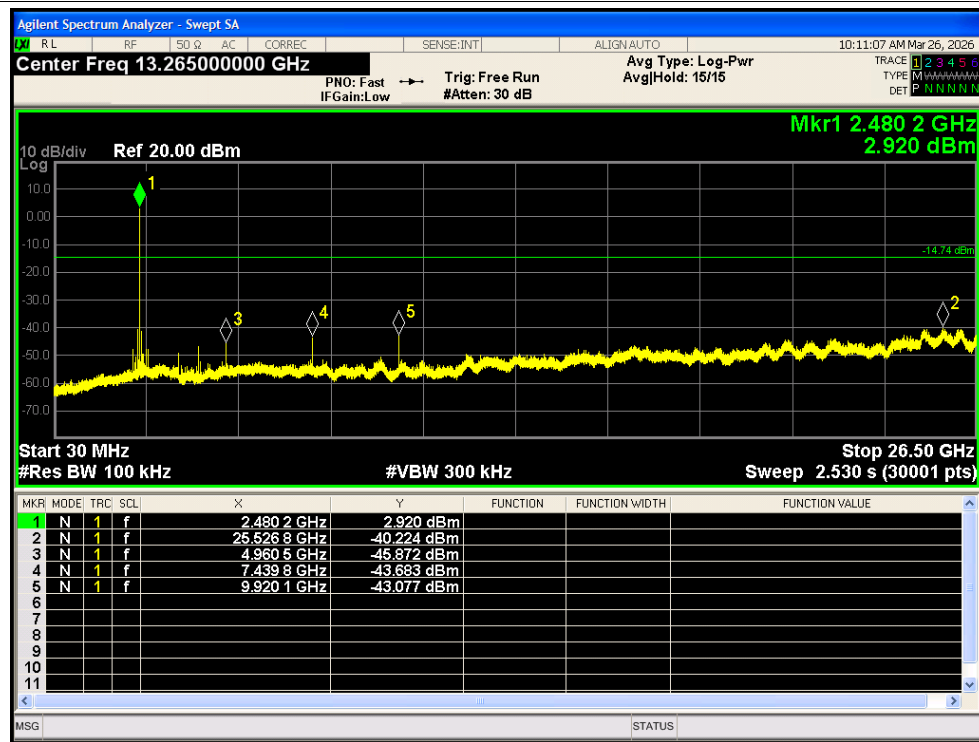
Tx. Spurious NVNT 2-DH1 2441MHz Emission



Tx. Spurious NVNT 2-DH1 2480MHz Ref



Tx. Spurious NVNT 2-DH1 2480MHz Emission

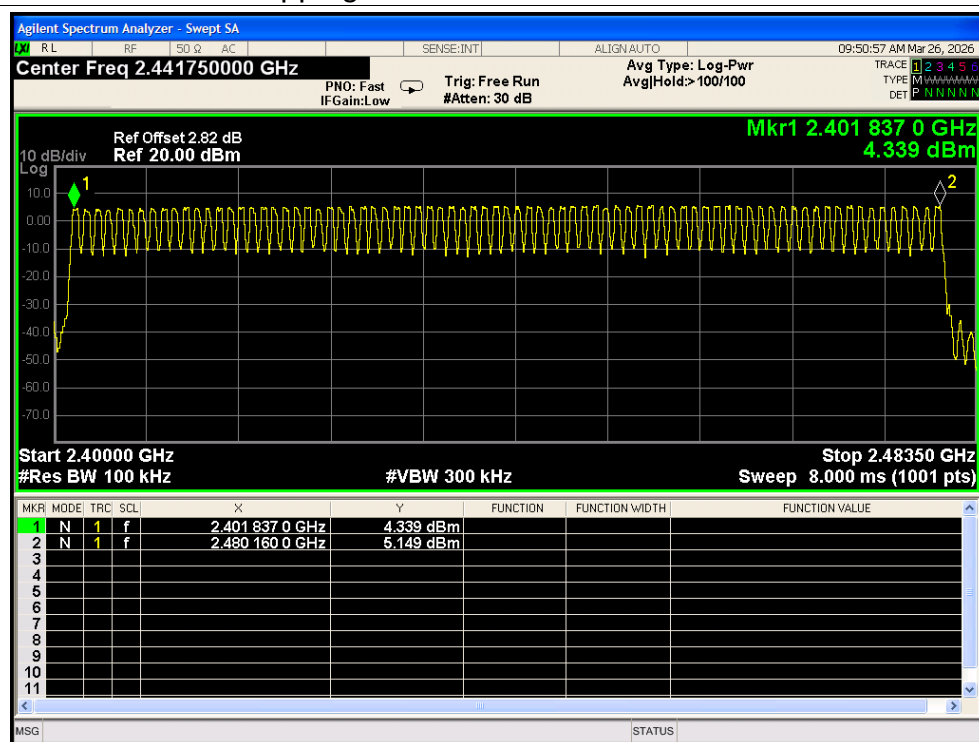


Number of Hopping Channel

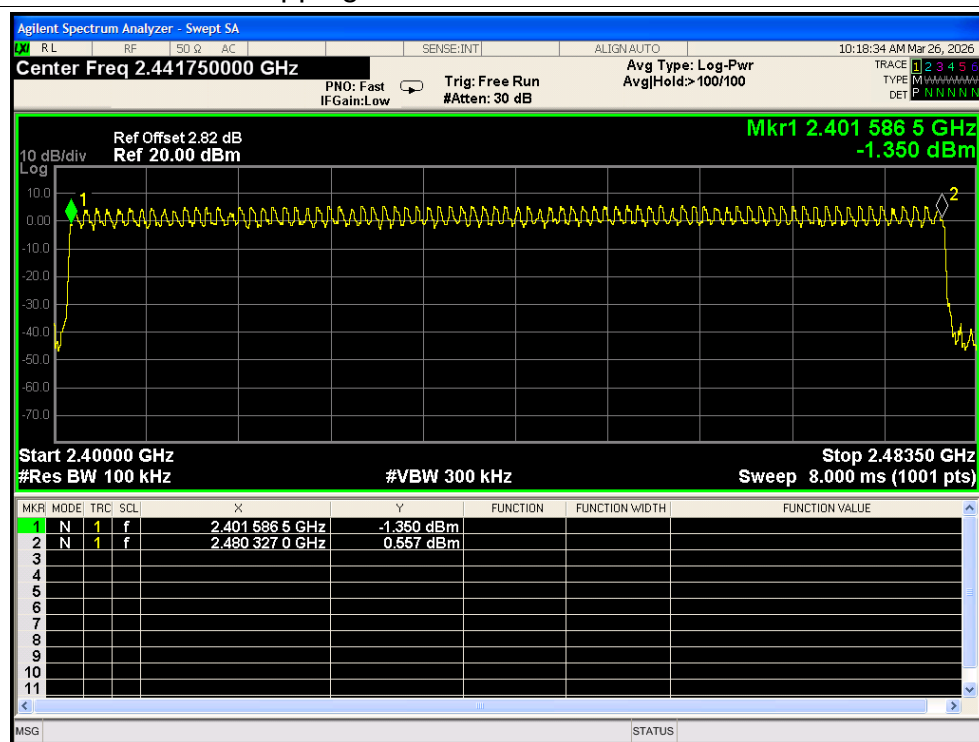
Condition	Mode	Hopping Number	Limit	Verdict
NVNT	1-DH1	79	15	Pass
NVNT	2-DH1	79	15	Pass

Test Graphs

Hopping No. NVNT 1-DH1 2441MHz



Hopping No. NVNT 2-DH1 2441MHz

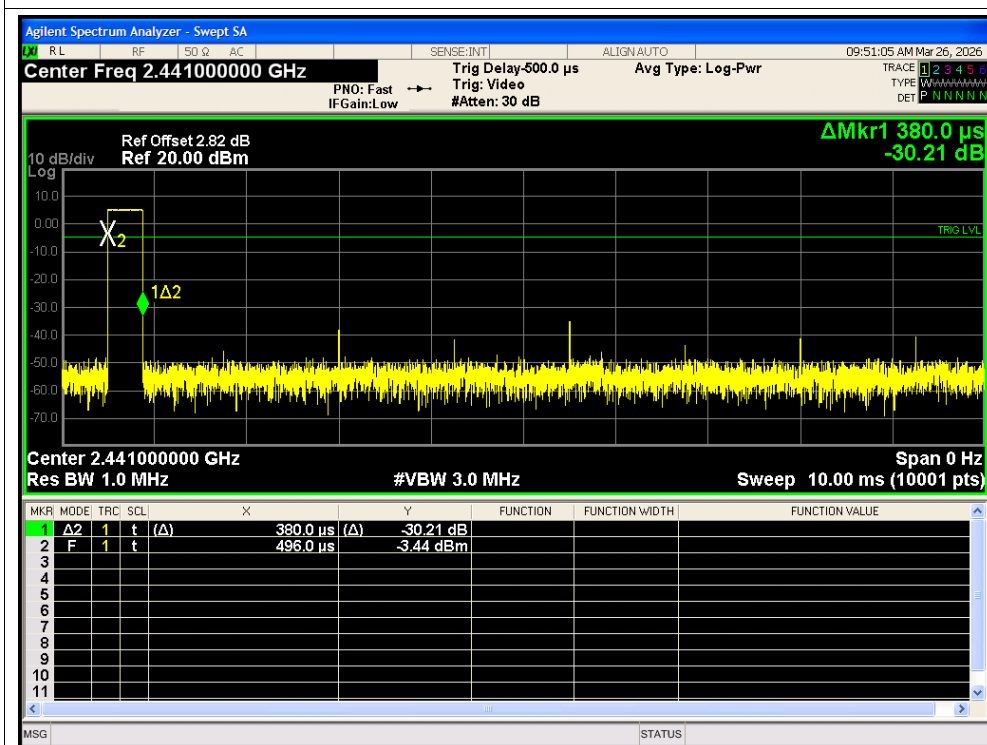


Dwell Time

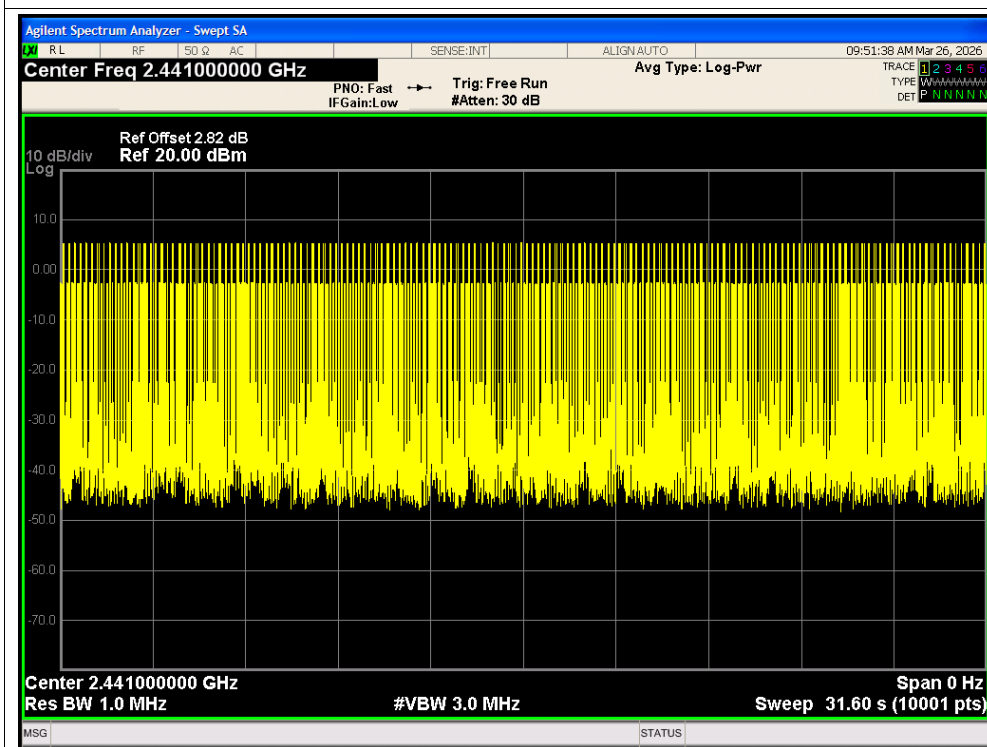
Condition	Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	0.38	120.84	318	31600	400	Pass
NVNT	1-DH3	2441	1.63	259.17	159	31600	400	Pass
NVNT	1-DH5	2441	2.88	290.88	101	31600	400	Pass
NVNT	2-DH1	2441	0.39	123.63	317	31600	400	Pass
NVNT	2-DH3	2441	1.63	255.91	157	31600	400	Pass
NVNT	2-DH5	2441	2.88	288.00	100	31600	400	Pass

Test Graphs

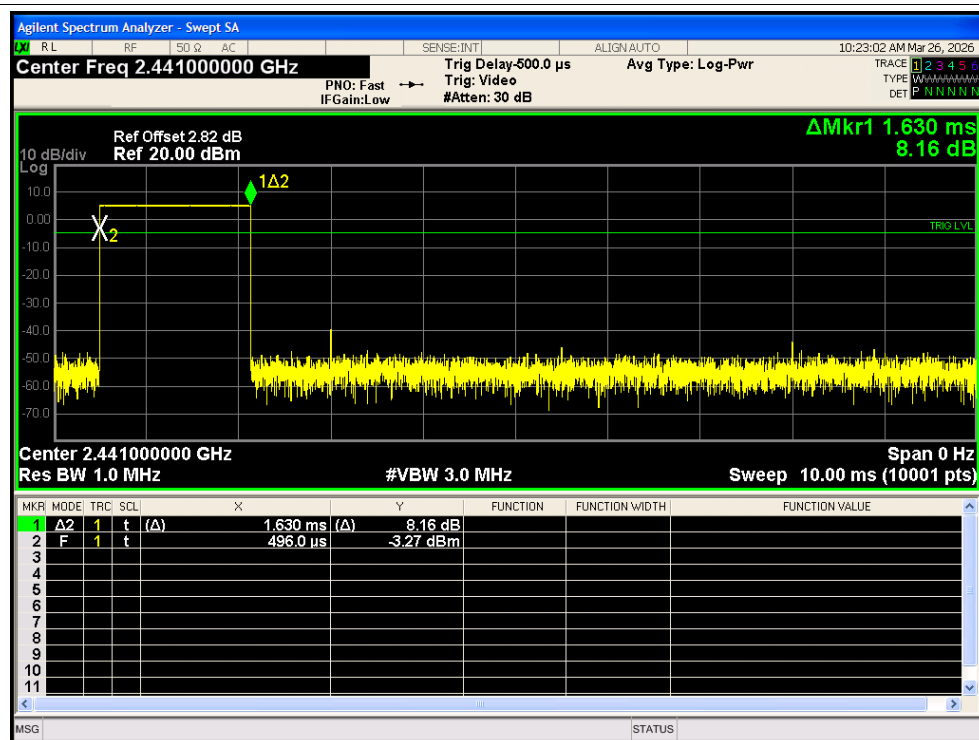
Dwell NVNT 1-DH1 2441MHz One Burst



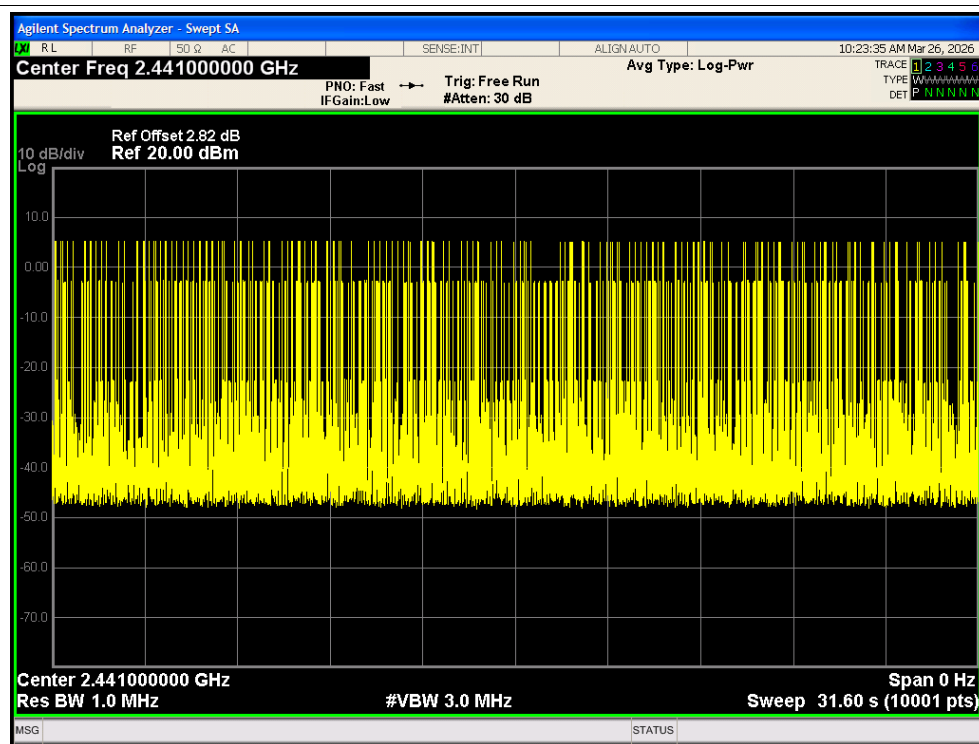
Dwell NVNT 1-DH1 2441MHz Accumulated



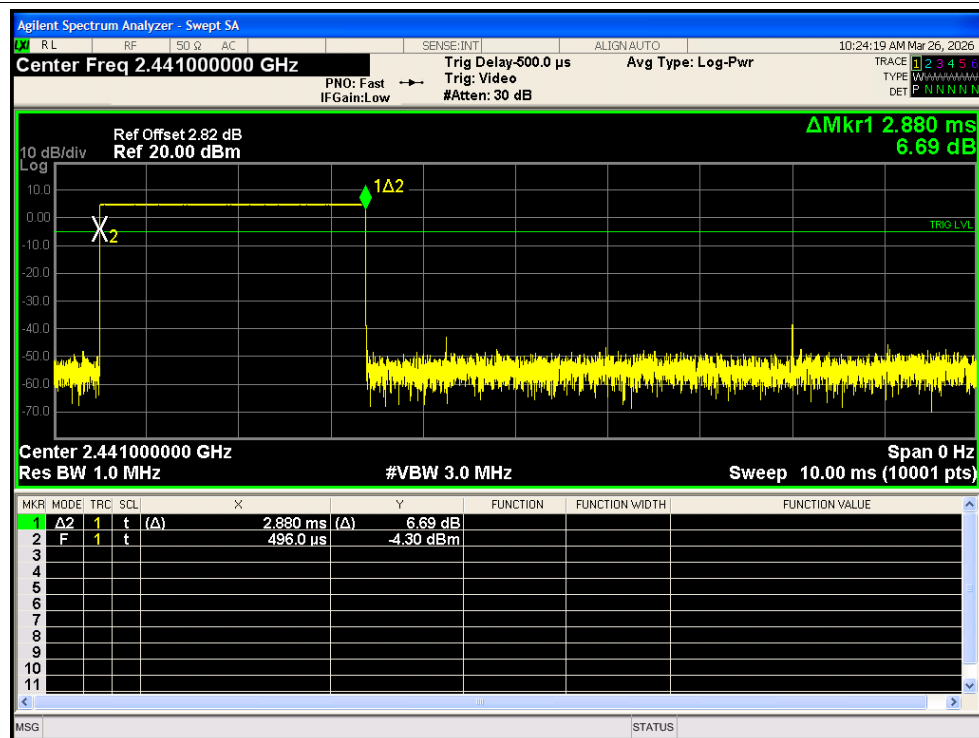
Dwell NVNT 1-DH3 2441MHz One Burst



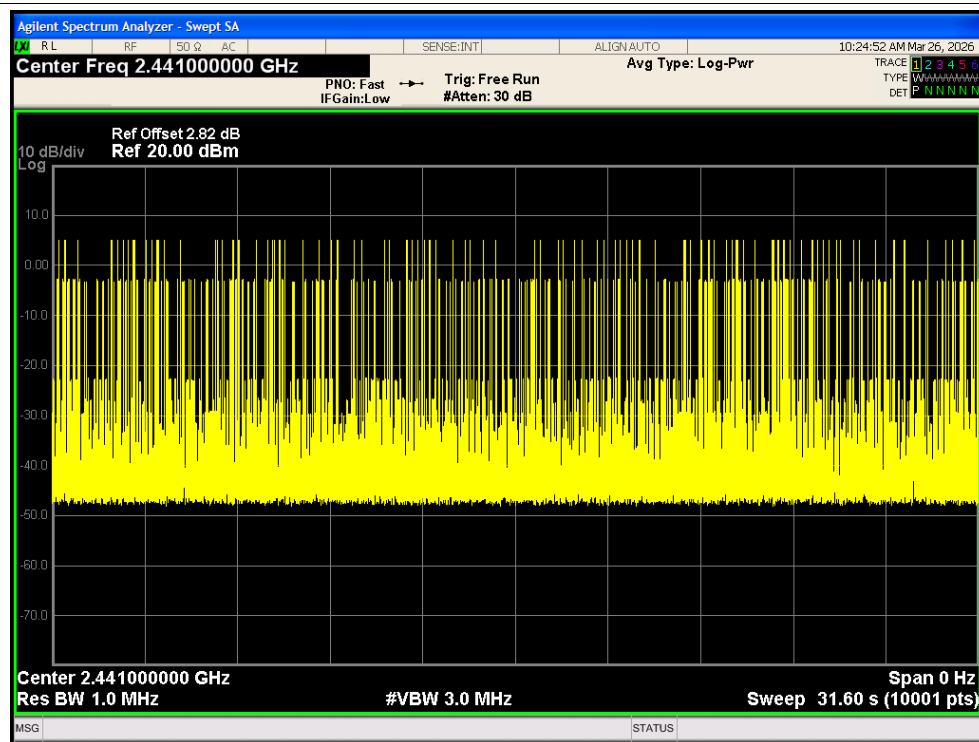
Dwell NVNT 1-DH3 2441MHz Accumulated



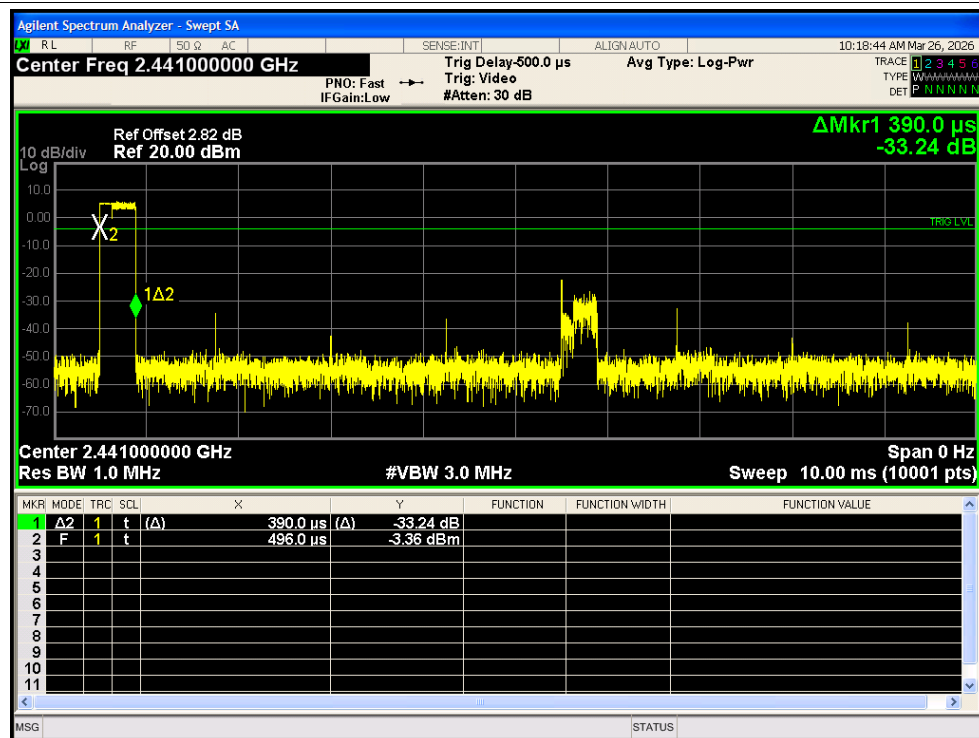
Dwell NVNT 1-DH5 2441MHz One Burst



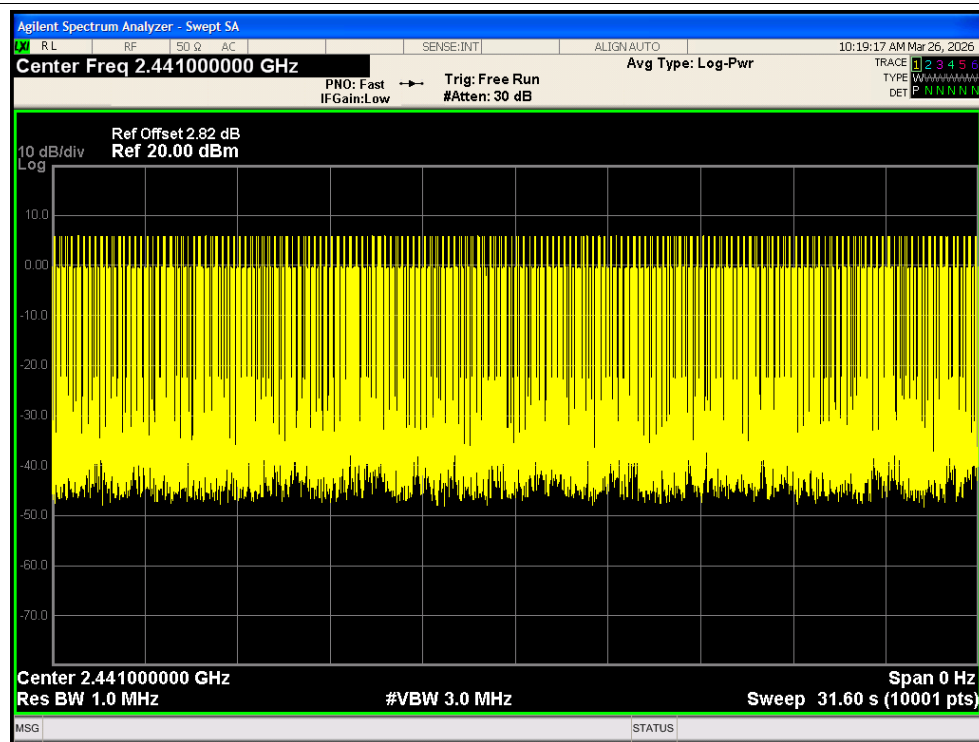
Dwell NVNT 1-DH5 2441MHz Accumulated



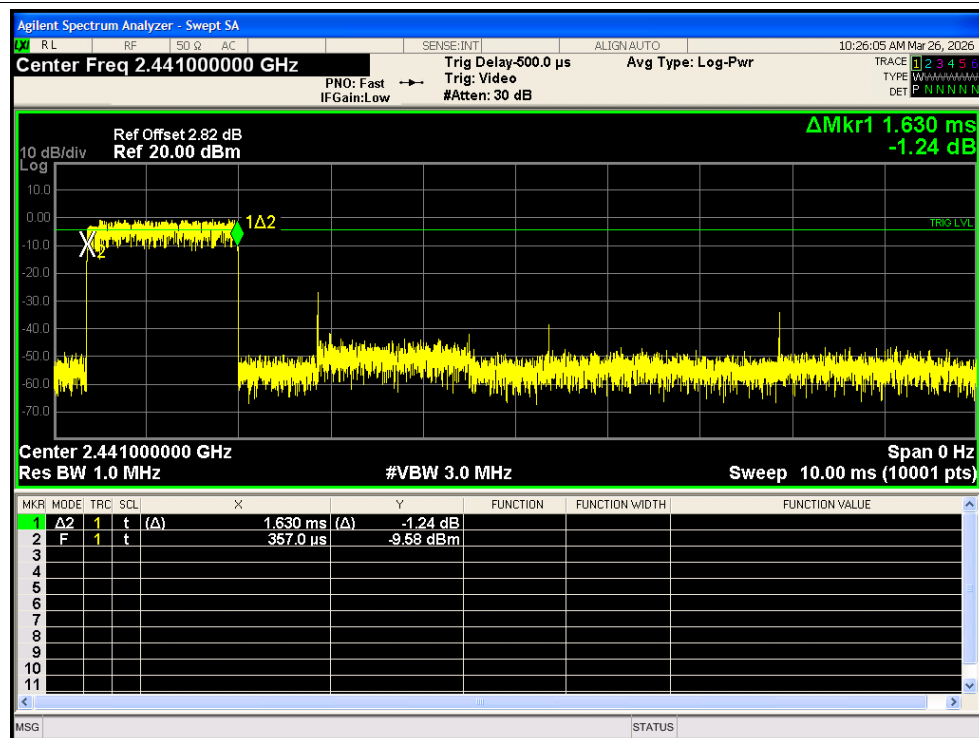
Dwell NVNT 2-DH1 2441MHz One Burst



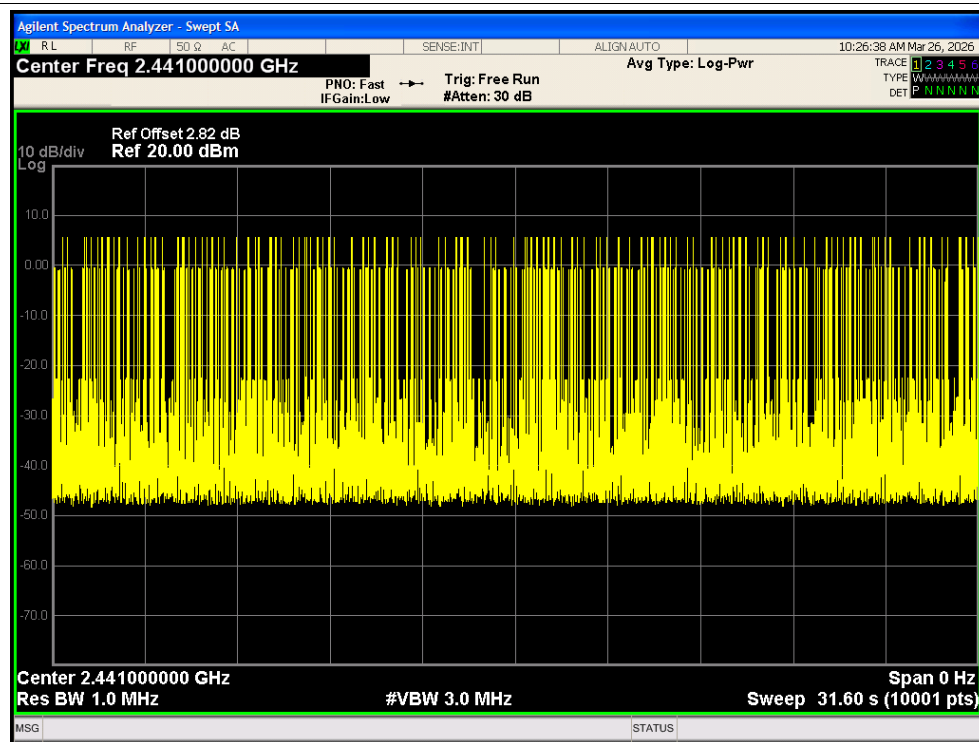
Dwell NVNT 2-DH1 2441MHz Accumulated



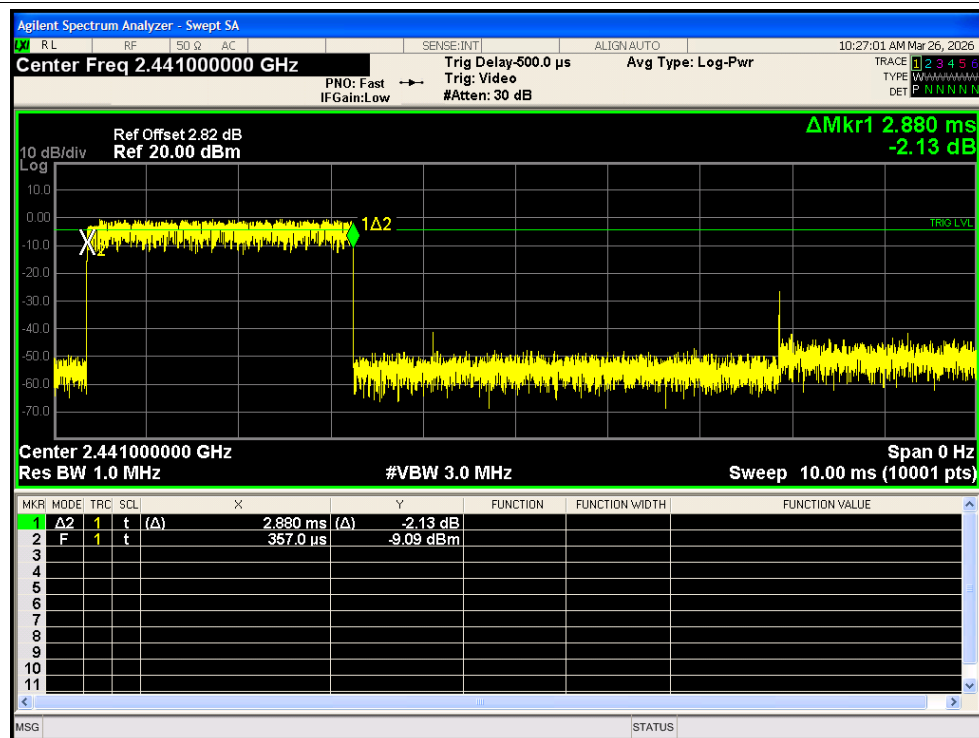
Dwell NVNT 2-DH3 2441MHz One Burst



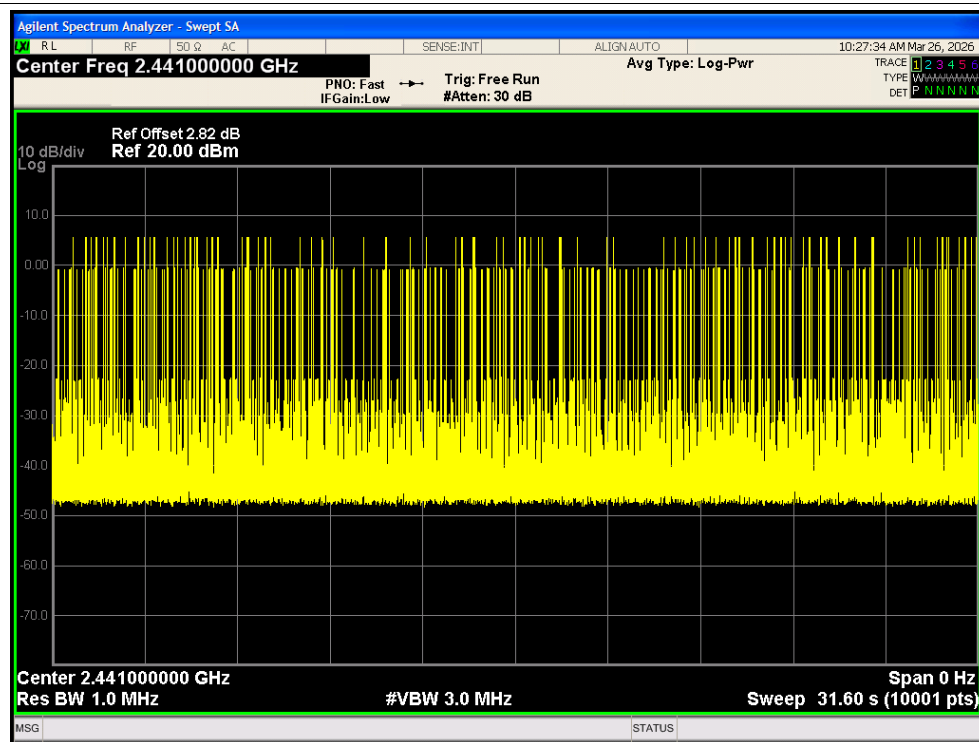
Dwell NVNT 2-DH3 2441MHz Accumulated



Dwell NVNT 2-DH5 2441MHz One Burst



Dwell NVNT 2-DH5 2441MHz Accumulated

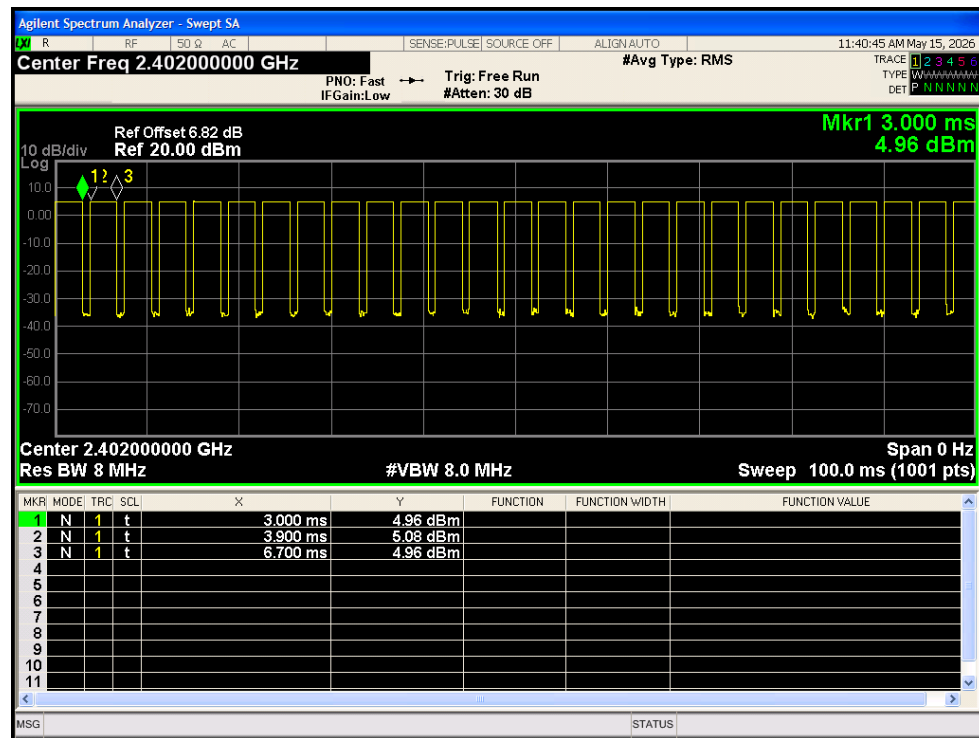


Duty Cycle

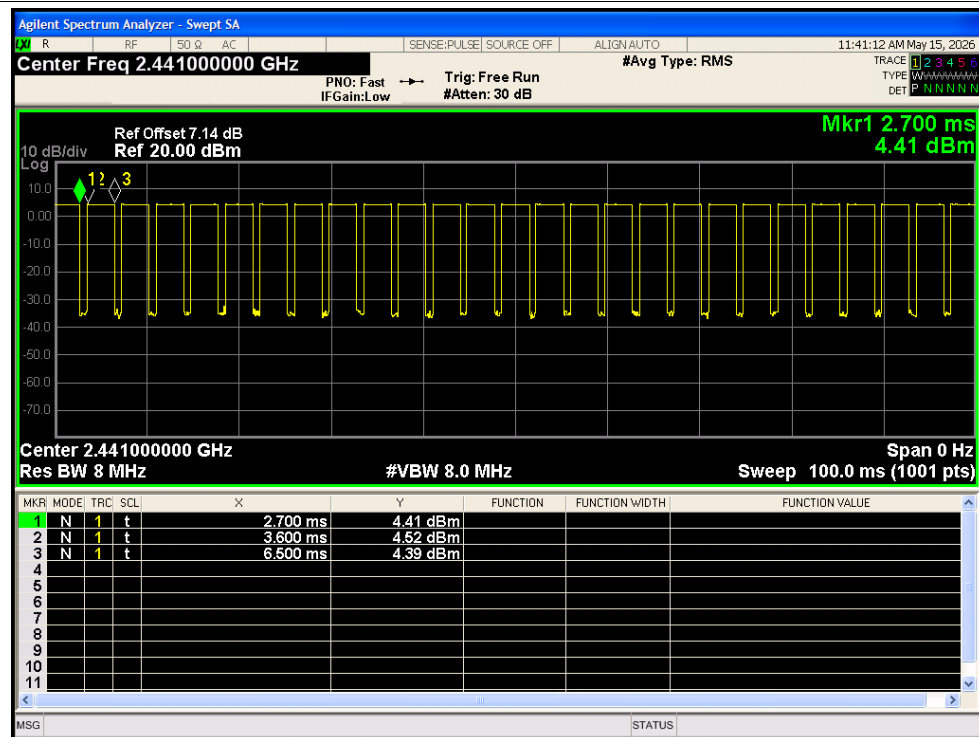
Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)
NVNT	1-DH5	2402	79.12	1.02
NVNT	1-DH5	2441	80.52	0.94
NVNT	1-DH5	2480	78.42	1.06
NVNT	2-DH5	2402	79.82	0.98
NVNT	2-DH5	2441	79.72	0.98
NVNT	2-DH5	2480	80.32	0.95

Test Graphs

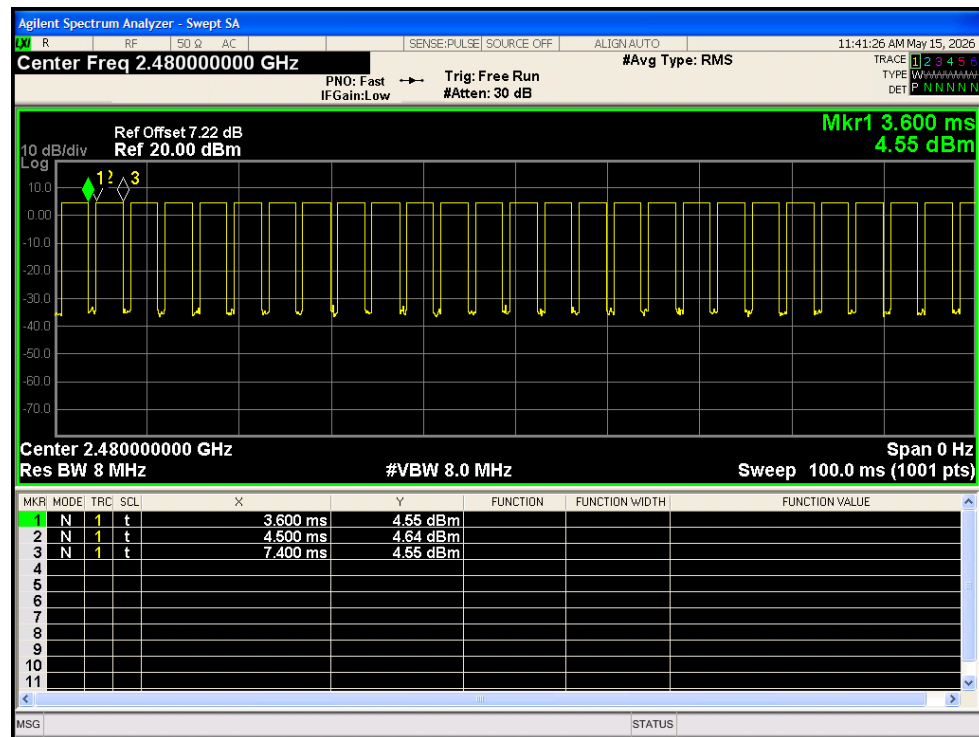
Duty Cycle NVNT 1-DH5 2402MHz



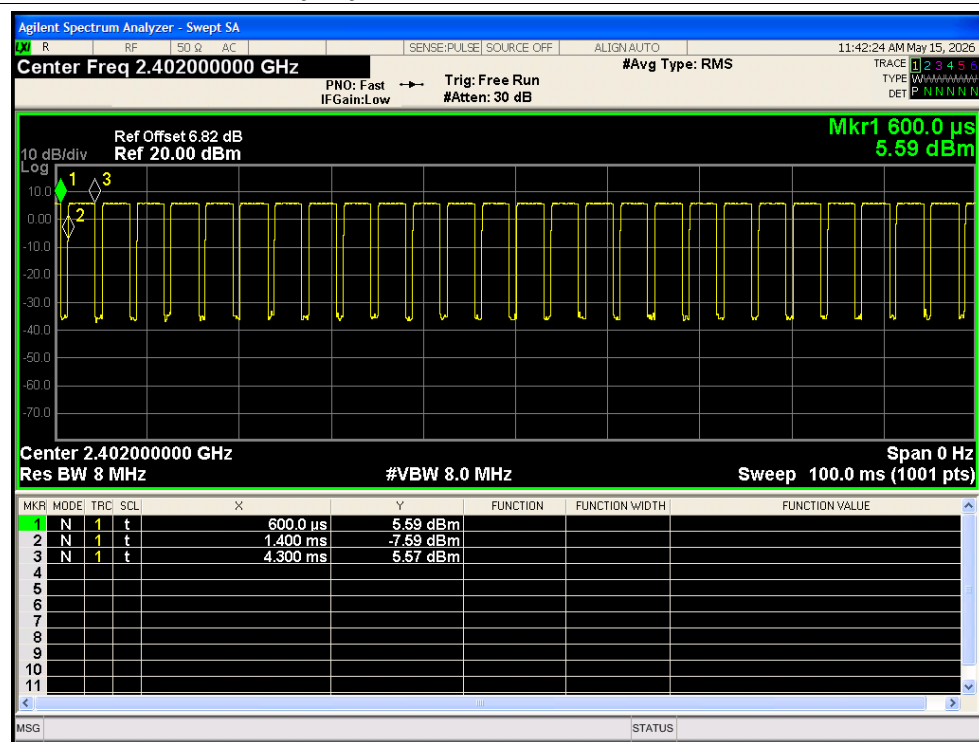
Duty Cycle NVNT 1-DH5 2441MHz



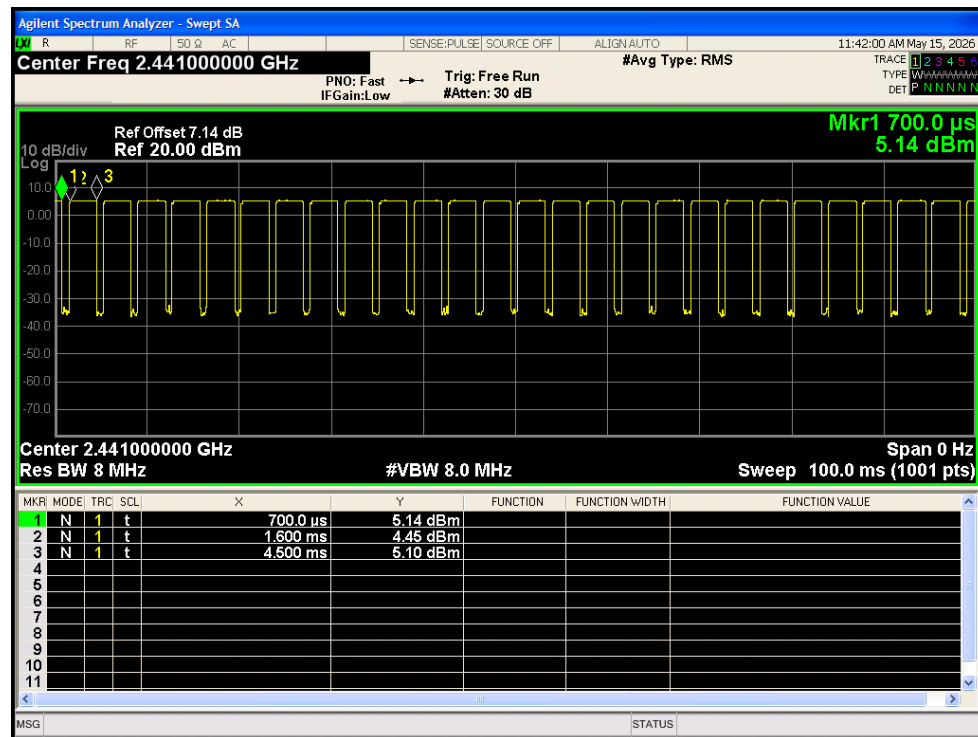
Duty Cycle NVNT 1-DH5 2480MHz



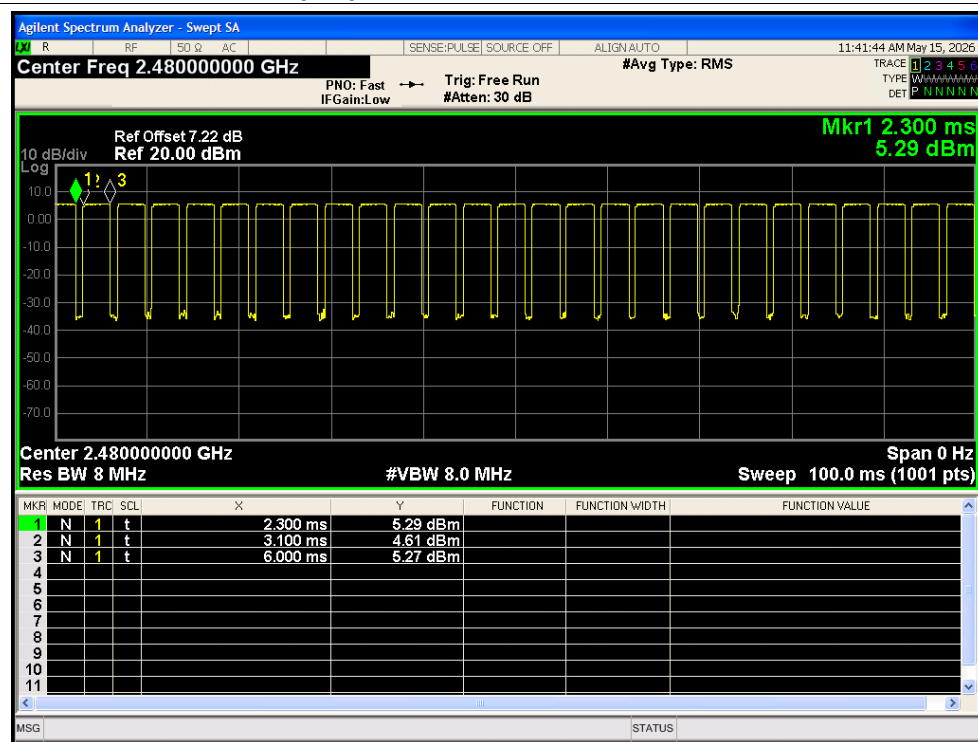
Duty Cycle NVNT 2-DH5 2402MHz



Duty Cycle NVNT 2-DH5 2441MHz



Duty Cycle NVNT 2-DH5 2480MHz



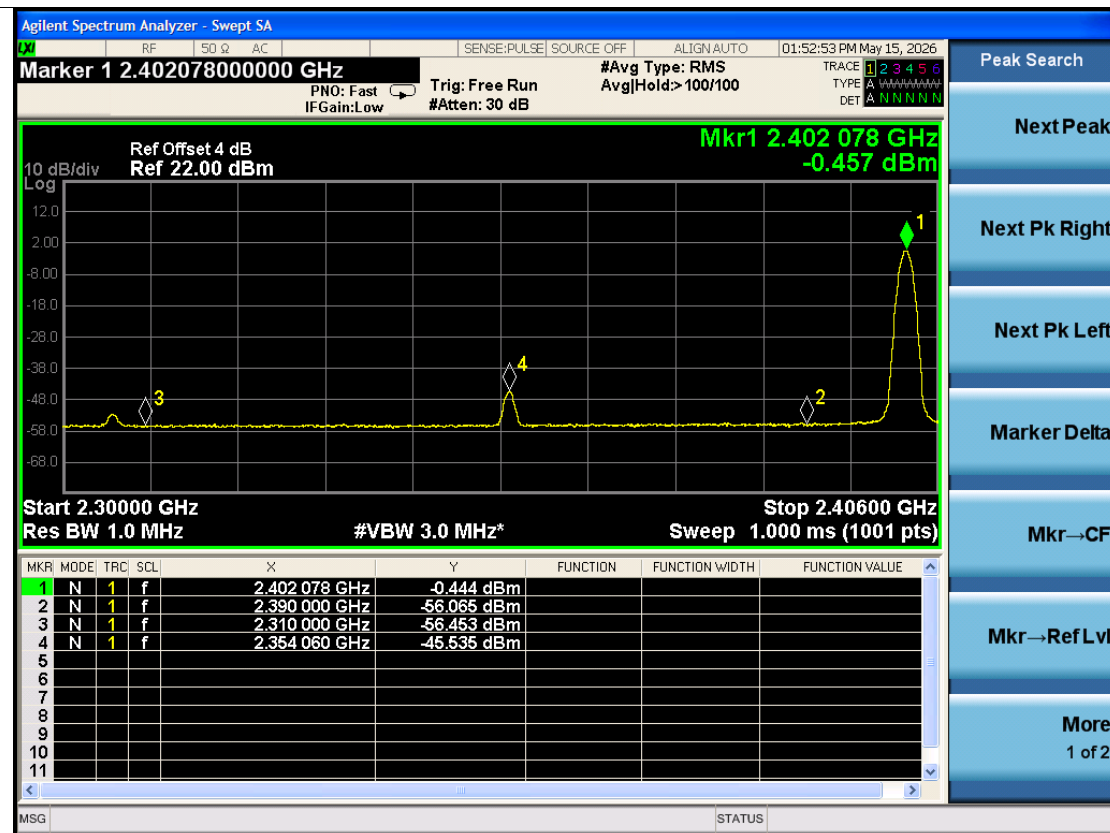
Emissions at Restricted Band

Test Mode	Ch	Freq (MHz)	Detector	Freq [MHz]	Result [dBm]	Gain [dBi]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
1-DH5	Low	2402	AV	2310.000	-56.45	2.7	1.02	42.47	≤54	PASS
			AV	2354.060	-45.74	2.7	1.02	53.18	≤54	PASS
			AV	2390.000	-56.07	2.7	1.02	42.85	≤54	PASS
			Peak	2310.000	-45.74	2.7	0.00	52.16	≤74	PASS
			Peak	2354.166	-39.23	2.7	0.00	58.67	≤74	PASS
			Peak	2390.000	-40.31	2.7	0.00	57.59	≤74	PASS
	High	2480	AV	2483.500	-54.94	2.7	1.06	44.02	≤54	PASS
			AV	2484.207	-55.36	2.7	1.06	43.60	≤54	PASS
			AV	2500.000	-55.90	2.7	1.06	43.06	≤54	PASS
			Peak	2483.500	-32.46	2.7	0.00	65.44	≤74	PASS
			Peak	2483.950	-33.15	2.7	0.00	64.75	≤74	PASS
			Peak	2500.000	-43.62	2.7	0.00	54.28	≤74	PASS
2-DH5	Low	2402	AV	2310.000	-56.52	2.7	0.98	42.36	≤54	PASS
			AV	2353.848	-47.56	2.7	0.98	51.32	≤54	PASS
			AV	2390.000	-55.85	2.7	0.98	43.03	≤54	PASS
			Peak	2310.000	-45.84	2.7	0.00	52.06	≤74	PASS
			Peak	2353.530	-40.05	2.7	0.00	57.85	≤74	PASS
			Peak	2390.000	-41.49	2.7	0.00	56.41	≤74	PASS
	High	2480	AV	2483.500	-54.08	2.7	0.95	44.77	≤54	PASS
			AV	2484.294	-54.92	2.7	0.95	43.93	≤54	PASS
			AV	2500.000	-54.08	2.7	0.95	44.77	≤54	PASS
			Peak	2483.500	-32.88	2.7	0.00	65.02	≤74	PASS
			Peak	2484.149	-33.18	2.7	0.00	64.72	≤74	PASS
			Peak	2500.000	-44.42	2.7	0.00	53.48	≤74	PASS

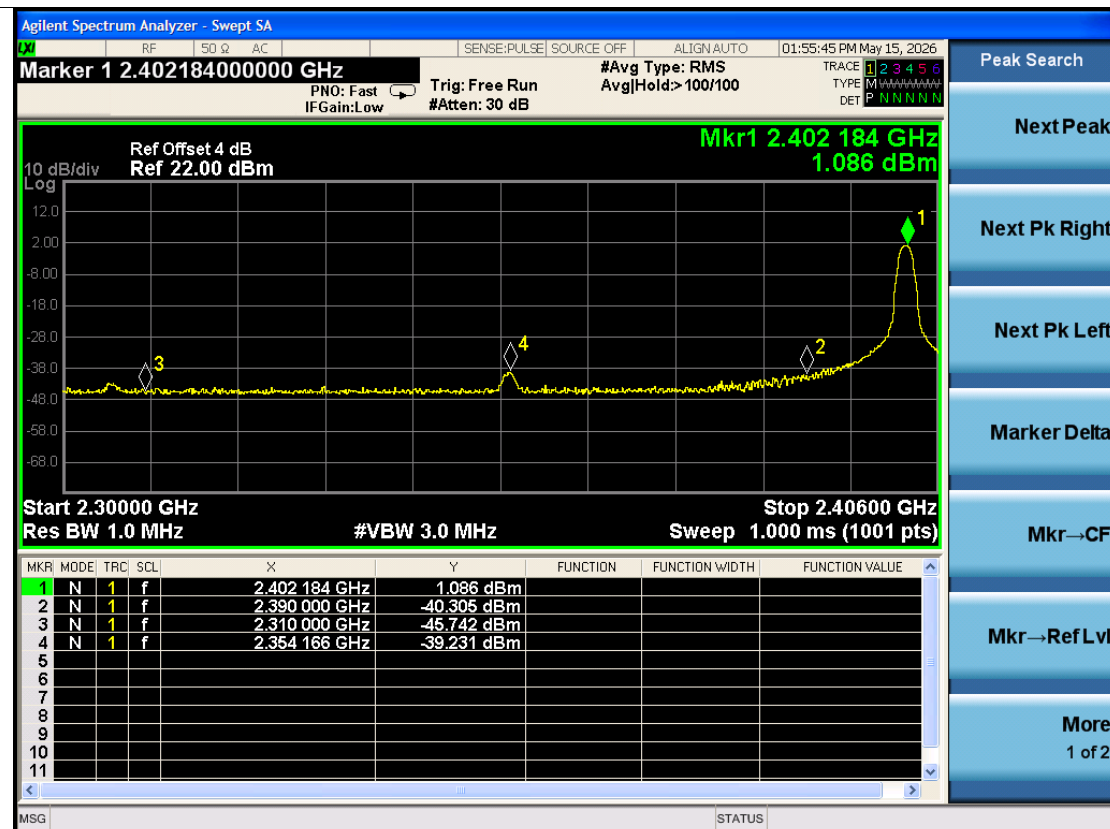
Note: The limit in dBm for average detector is conversion from 54dBuV/m, according to RSS-Gen. The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

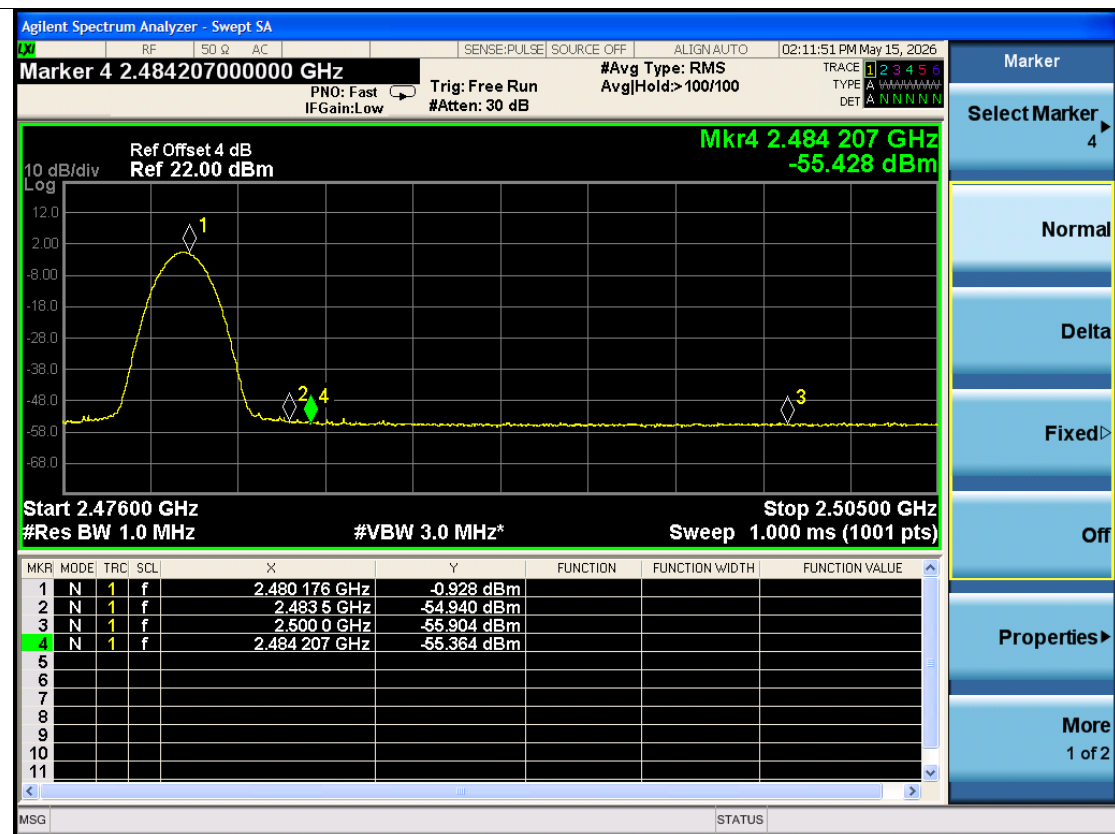
NVNT 1-DH5 2402MHz AV



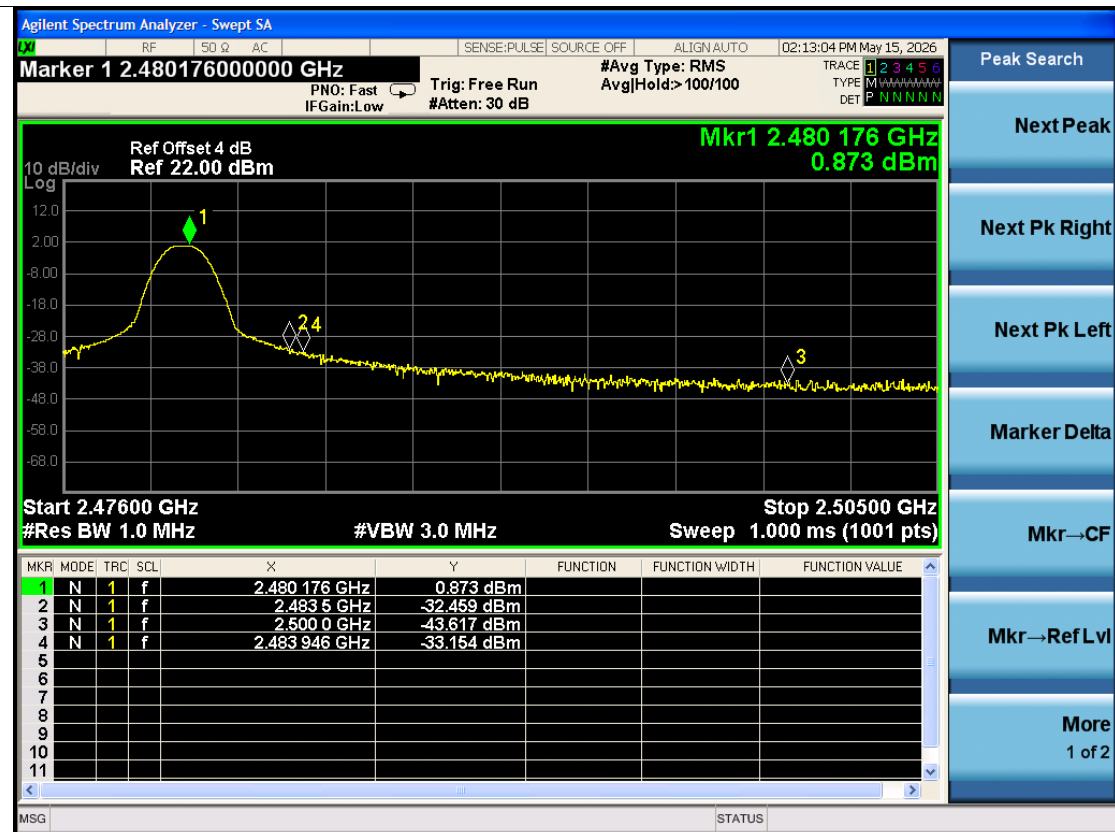
NVNT 1-DH5 2402MHz PK



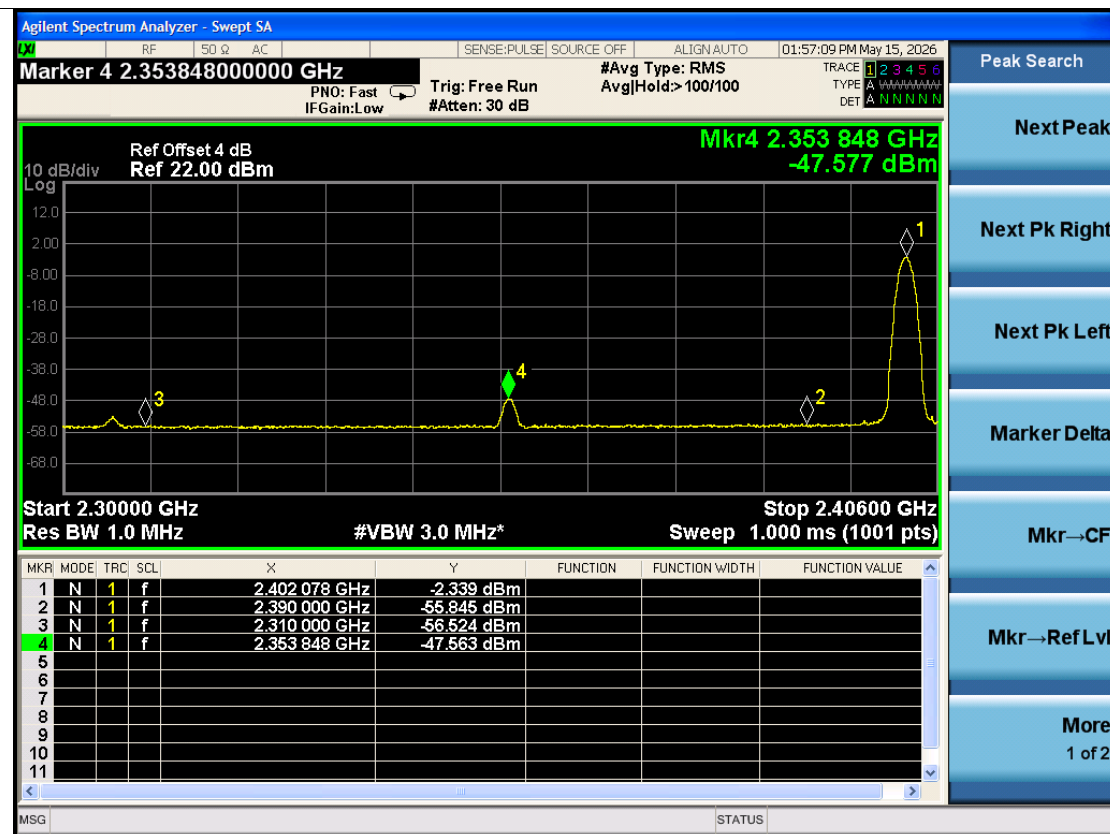
NVNT 1-DH5 2480MHz AV



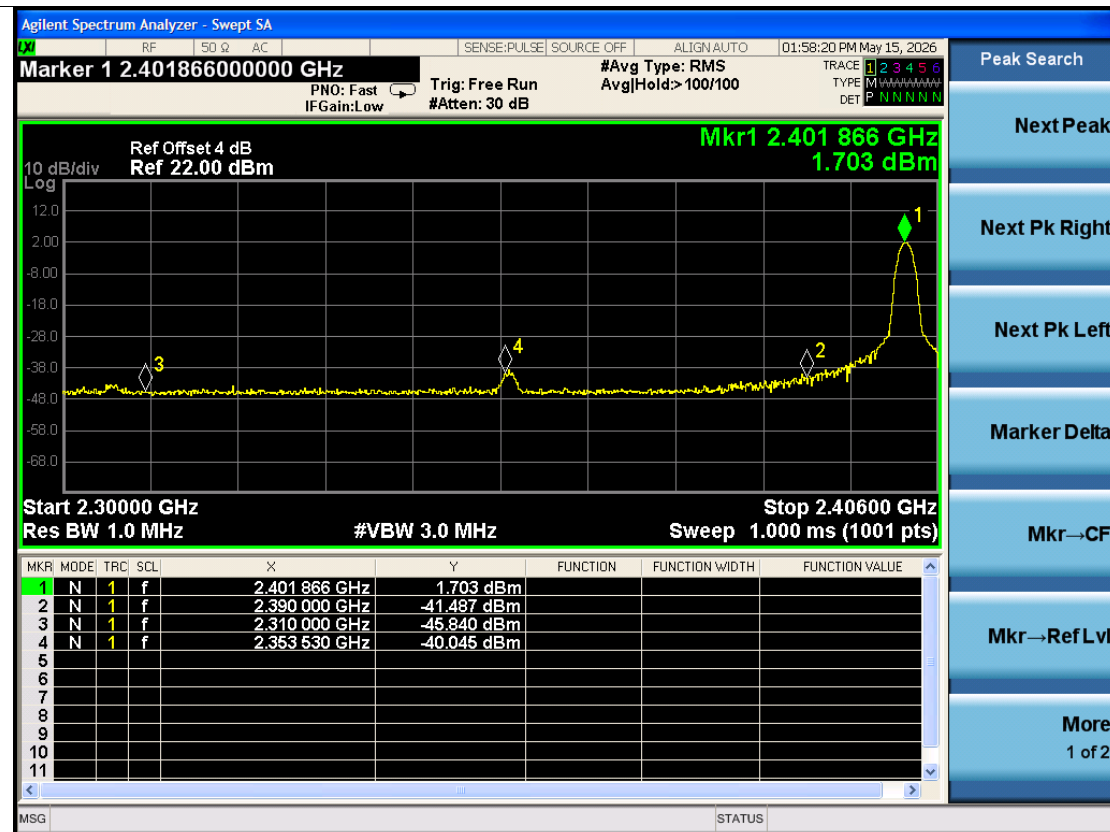
NVNT 1-DH5 2480MHz PK



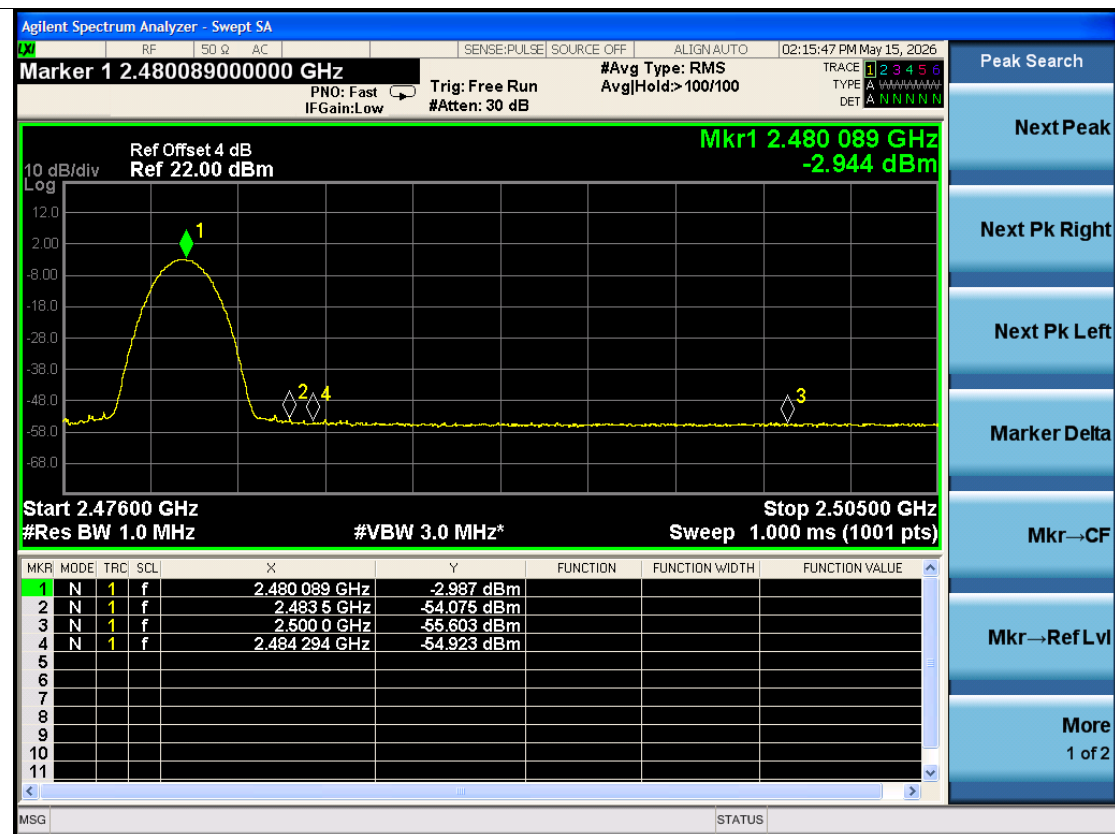
NVNT 2-DH5 2402MHz AV



NVNT 2-DH5 2402MHz PK



NVNT 2-DH5 2480MHz AV



NVNT 2-DH5 2480MHz PK

