

RF Test Data for Bluetooth (Conducted Measurements)

General Description of EUT	
Product Name:	Smart Watch
Test Model:	NoiseFit Endeavour 2
Sample ID:	HC-C-202411-0284-01-2#
Environmental Conditions	
Temperature:	23.9℃
Relative Humidity:	48%
Test Voltage:	DC 3.8V
Test Engineer:	Dawson
Note: For a more detailed features description, please refer to the report TBR-C-202411-0284-31 The report only show the worst case data.	

Contents

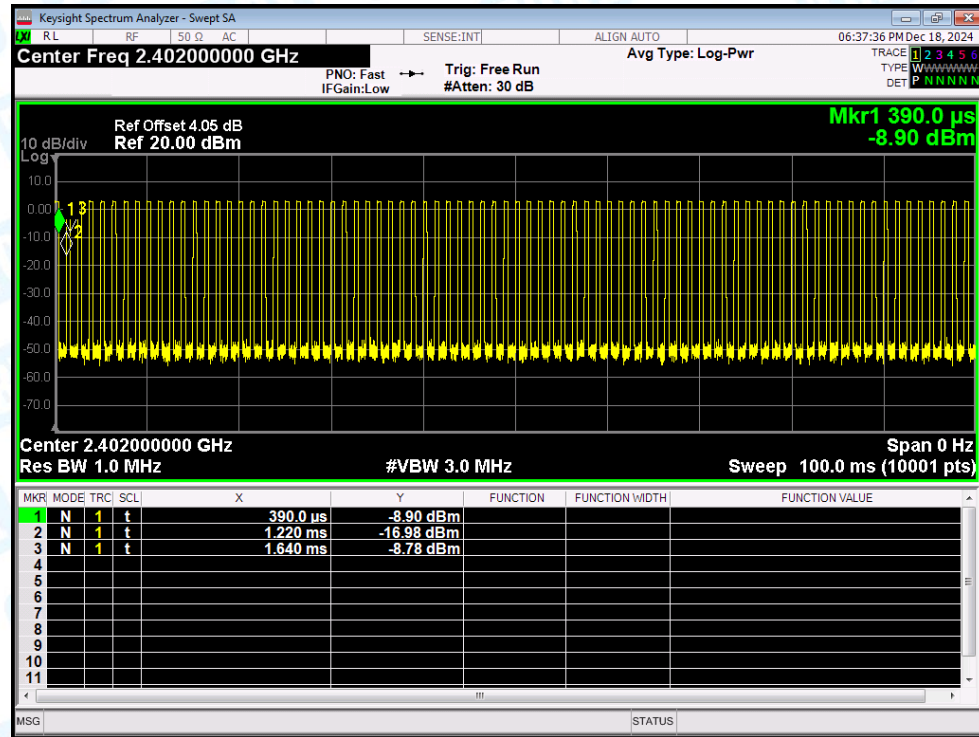
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1. Duty Cycle

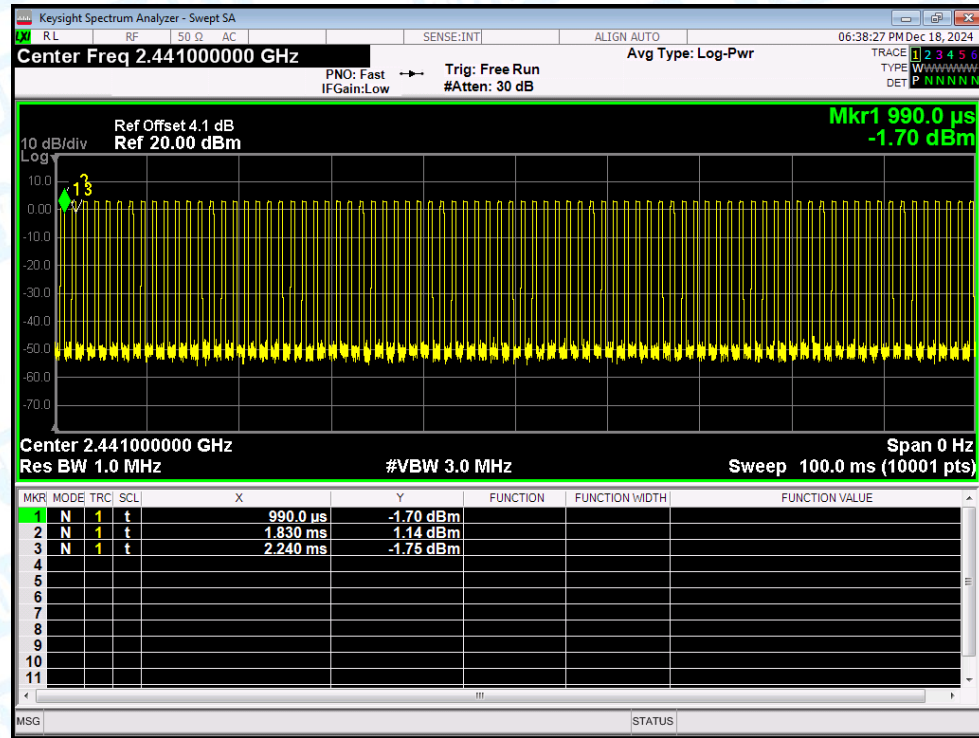
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	33.6	4.74	2.38
NVNT	1-DH1	2441	Ant1	32.8	4.84	2.44
NVNT	1-DH1	2480	Ant1	32.8	4.84	2.44
NVNT	2-DH1	2402	Ant1	30.4	5.17	2.63
NVNT	2-DH1	2441	Ant1	30.4	5.17	2.63
NVNT	2-DH1	2480	Ant1	30.4	5.17	2.63
NVNT	3-DH1	2402	Ant1	31.2	5.06	2.56
NVNT	3-DH1	2441	Ant1	31.2	5.06	2.56
NVNT	3-DH1	2480	Ant1	31.2	5.06	2.56

Test Graphs

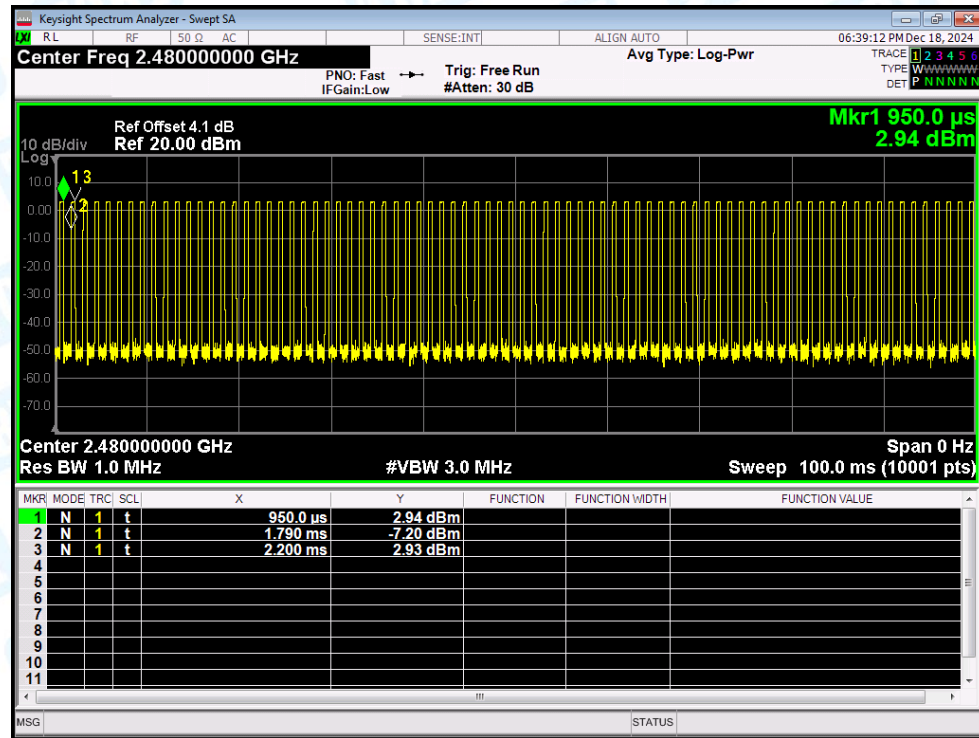
Duty Cycle NVNT 1-DH1 2402MHz Ant1



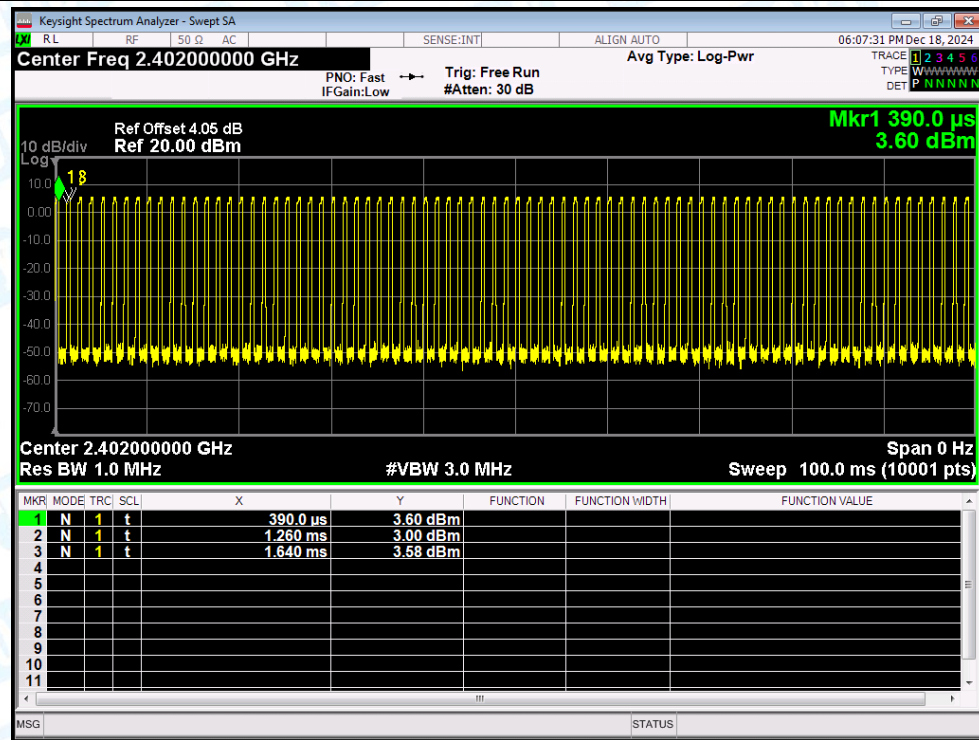
Duty Cycle NVNT 1-DH1 2441MHz Ant1



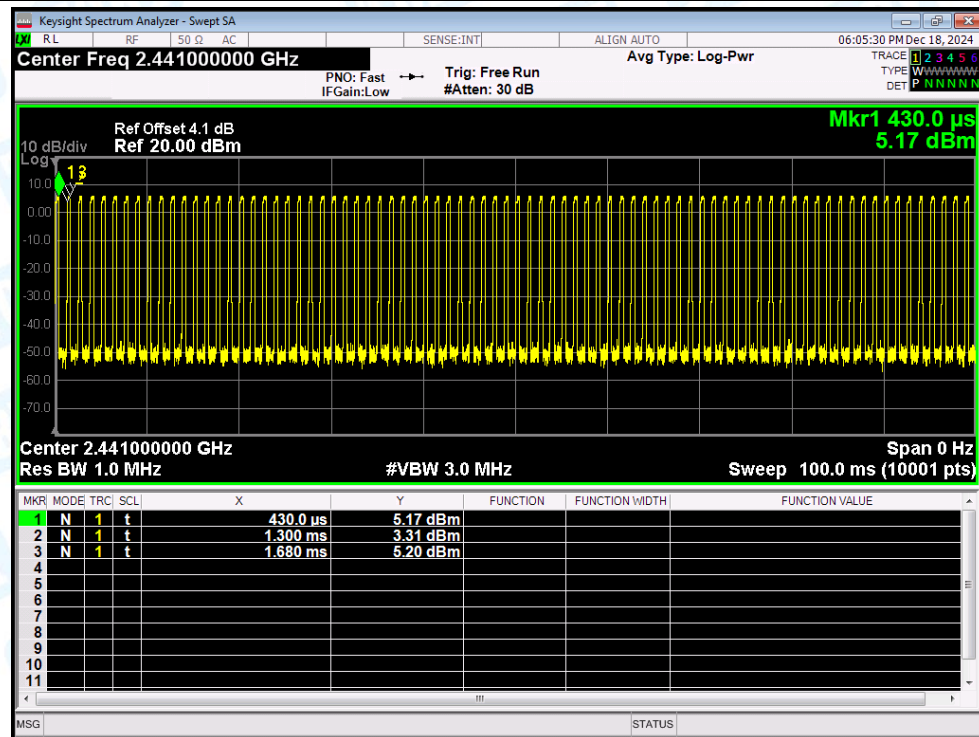
Duty Cycle NVNT 1-DH1 2480MHz Ant1



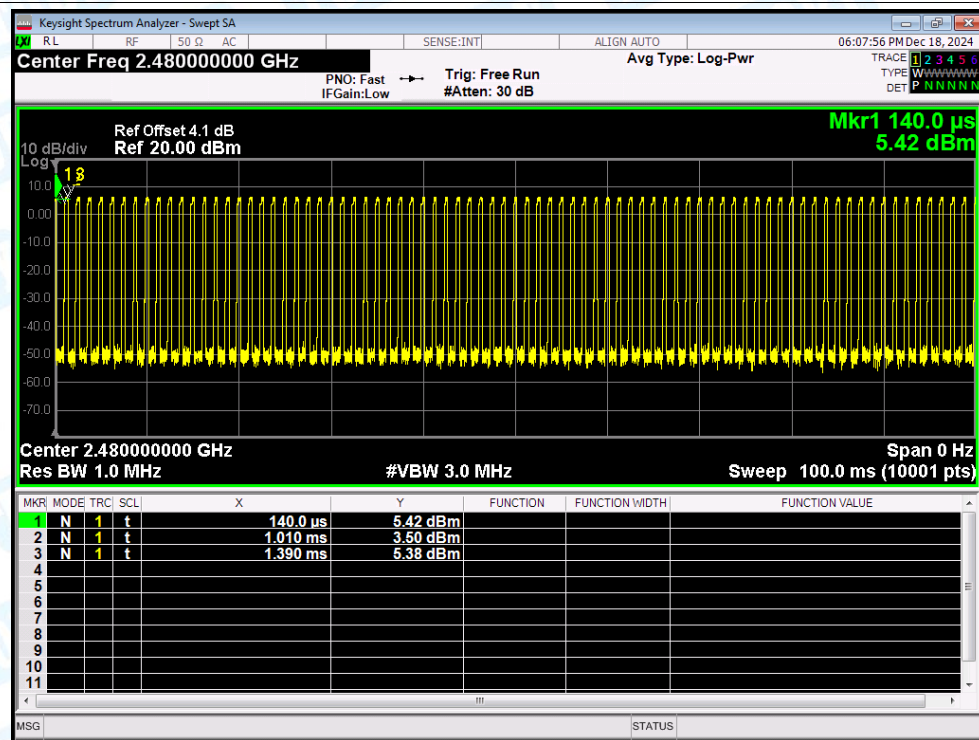
Duty Cycle NVNT 2-DH1 2402MHz Ant1



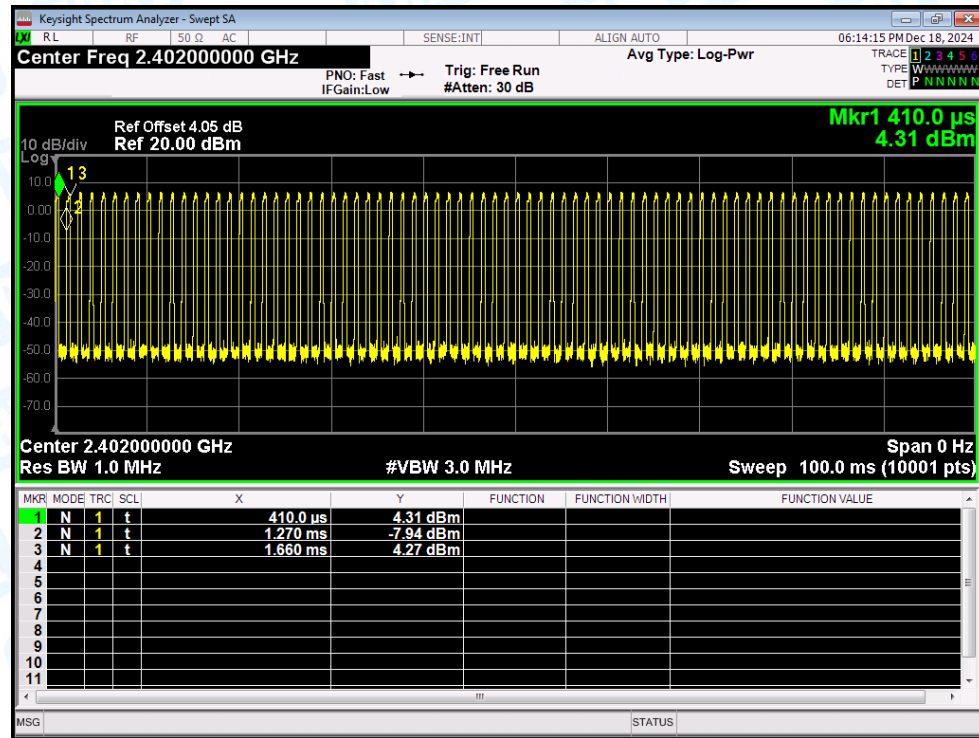
Duty Cycle NVNT 2-DH1 2441MHz Ant1



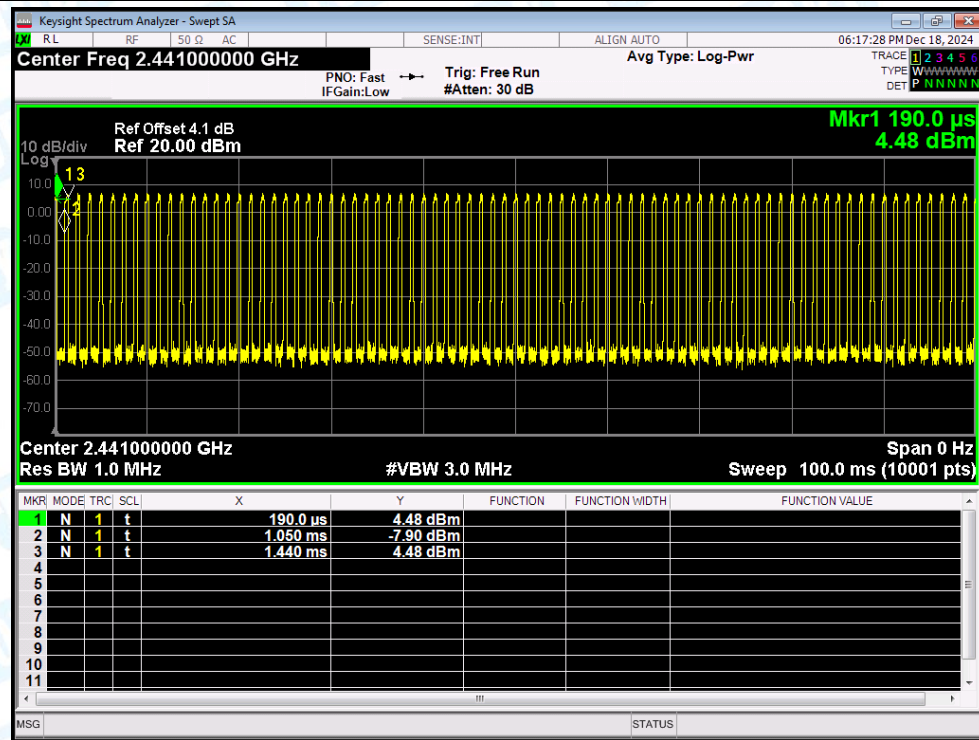
Duty Cycle NVNT 2-DH1 2480MHz Ant1

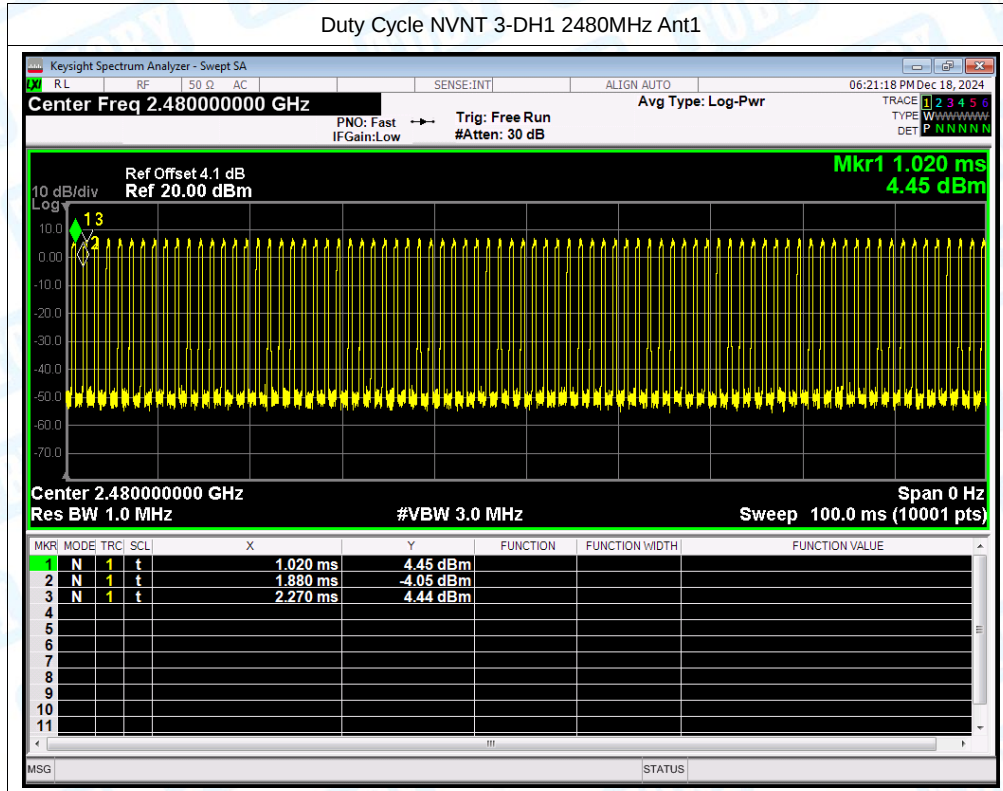


Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1



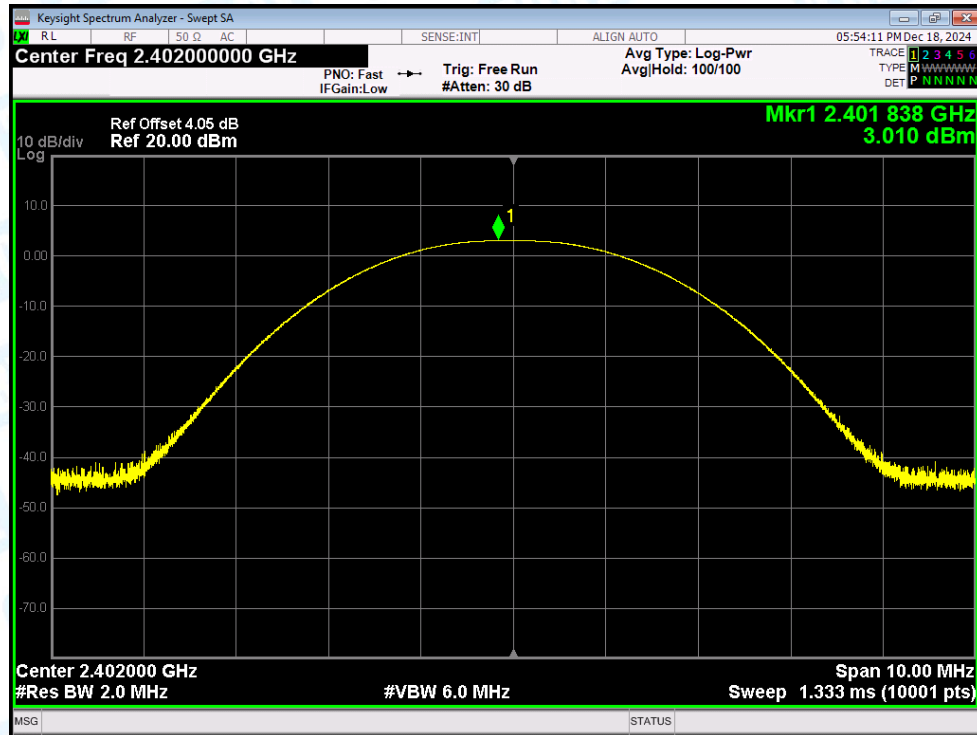


2. Maximum Conducted Output Power

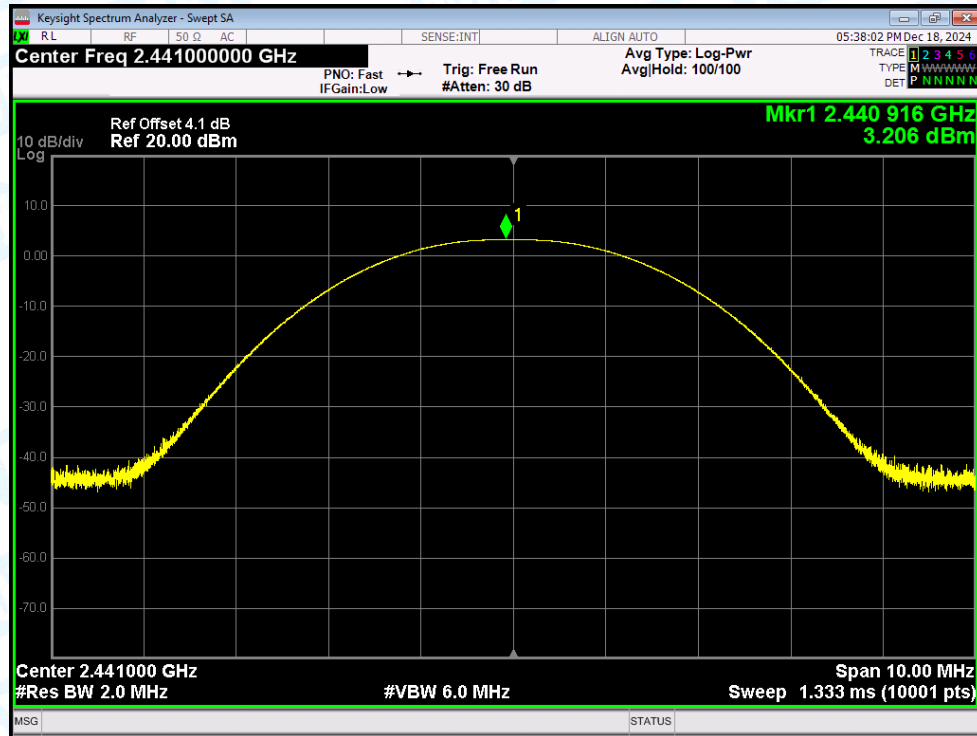
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	3.01	21	Pass
NVNT	1-DH1	2441	Ant1	3.206	21	Pass
NVNT	1-DH1	2480	Ant1	3.285	21	Pass
NVNT	1-DH3	2441	Ant1	3.142	21	Pass
NVNT	1-DH5	2441	Ant1	3.145	21	Pass
NVNT	2-DH1	2402	Ant1	6.247	21	Pass
NVNT	2-DH1	2441	Ant1	6.558	21	Pass
NVNT	2-DH1	2480	Ant1	6.71	21	Pass
NVNT	2-DH3	2441	Ant1	6.459	21	Pass
NVNT	2-DH5	2441	Ant1	6.403	21	Pass
NVNT	3-DH1	2402	Ant1	6.967	21	Pass
NVNT	3-DH1	2441	Ant1	7.242	21	Pass
NVNT	3-DH1	2480	Ant1	7.13	21	Pass
NVNT	3-DH3	2441	Ant1	6.894	21	Pass
NVNT	3-DH5	2441	Ant1	7.169	21	Pass

Test Graphs

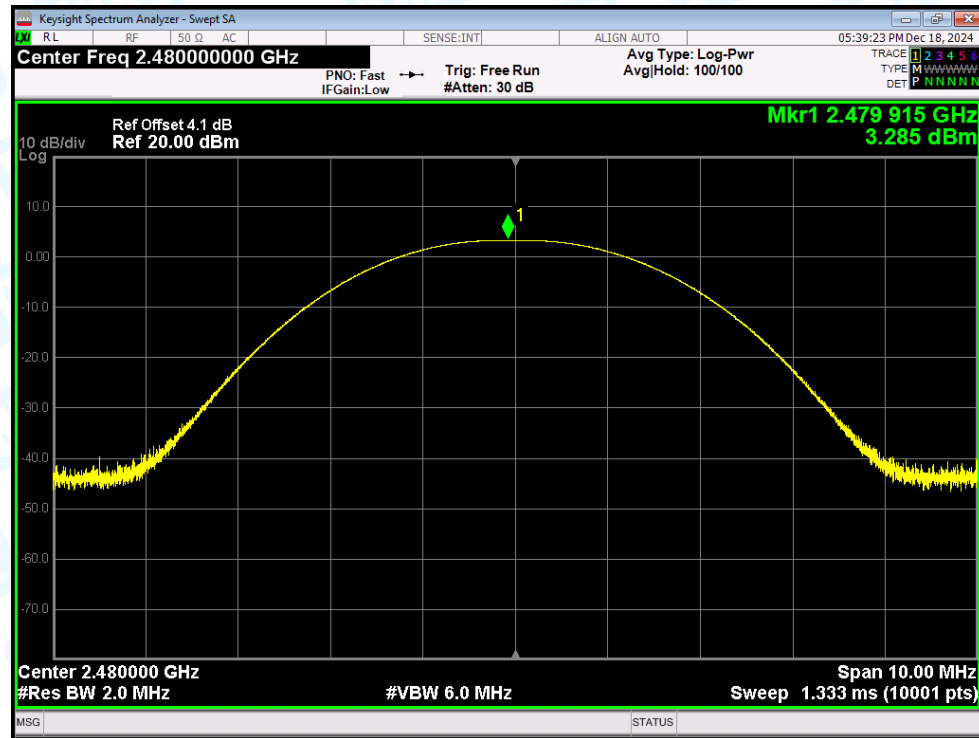
Power NVNT 1-DH1 2402MHz Ant1



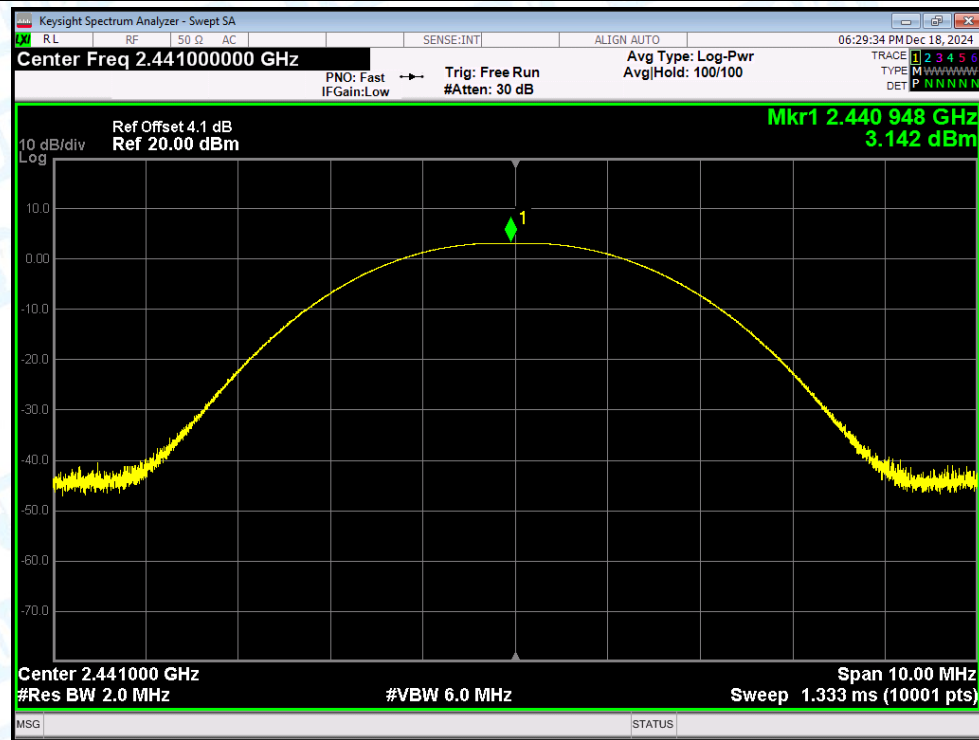
Power NVNT 1-DH1 2441MHz Ant1



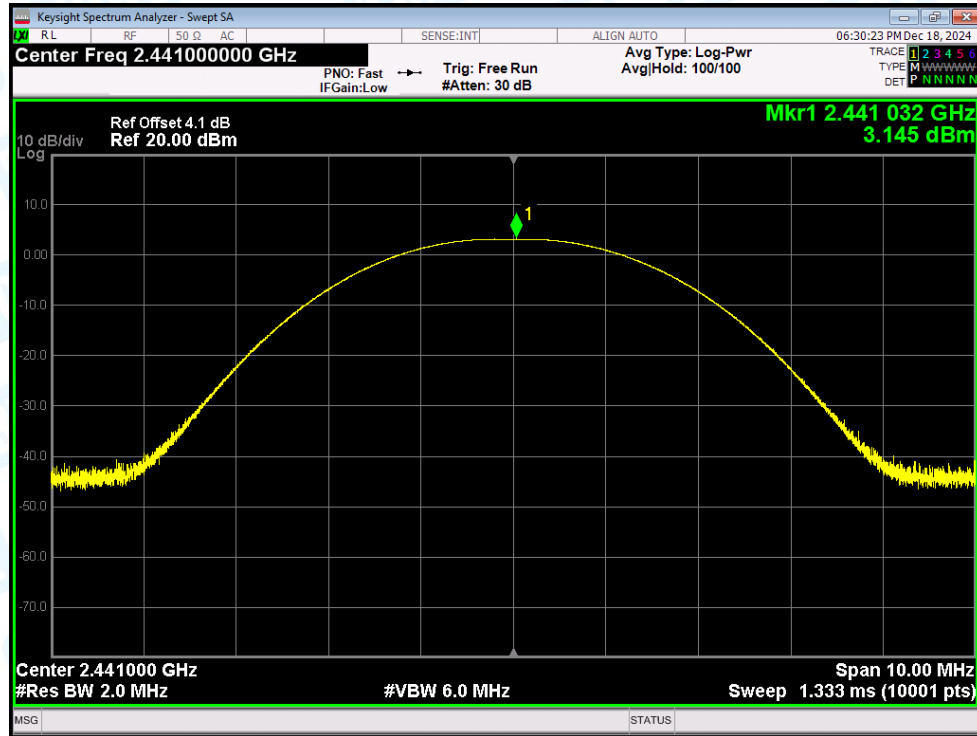
Power NVNT 1-DH1 2480MHz Ant1



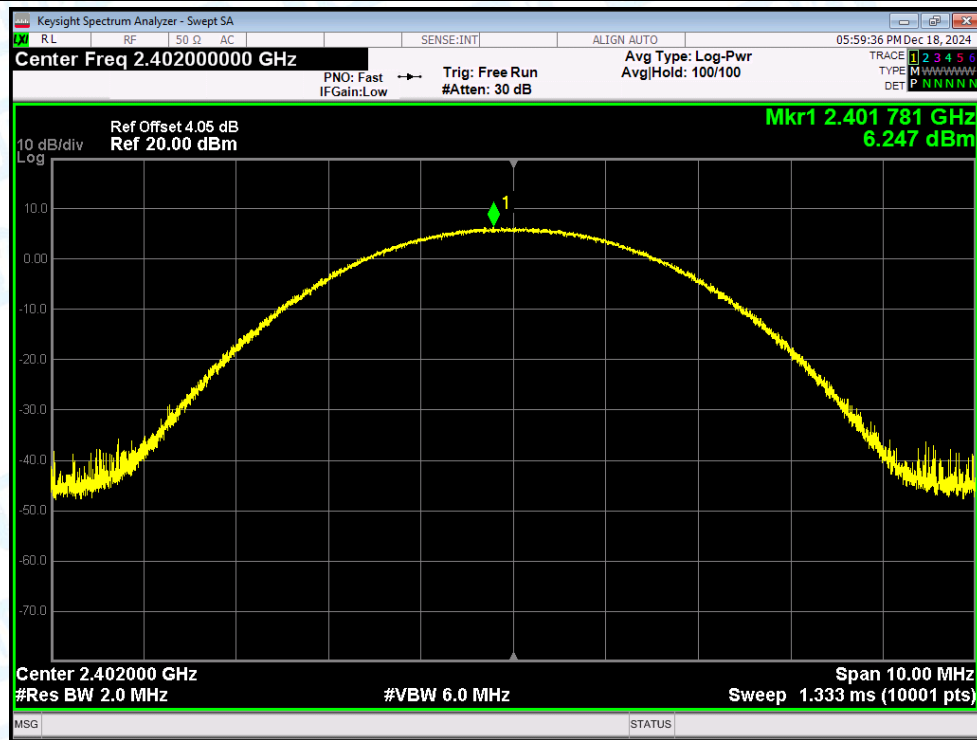
Power NVNT 1-DH3 2441MHz Ant1



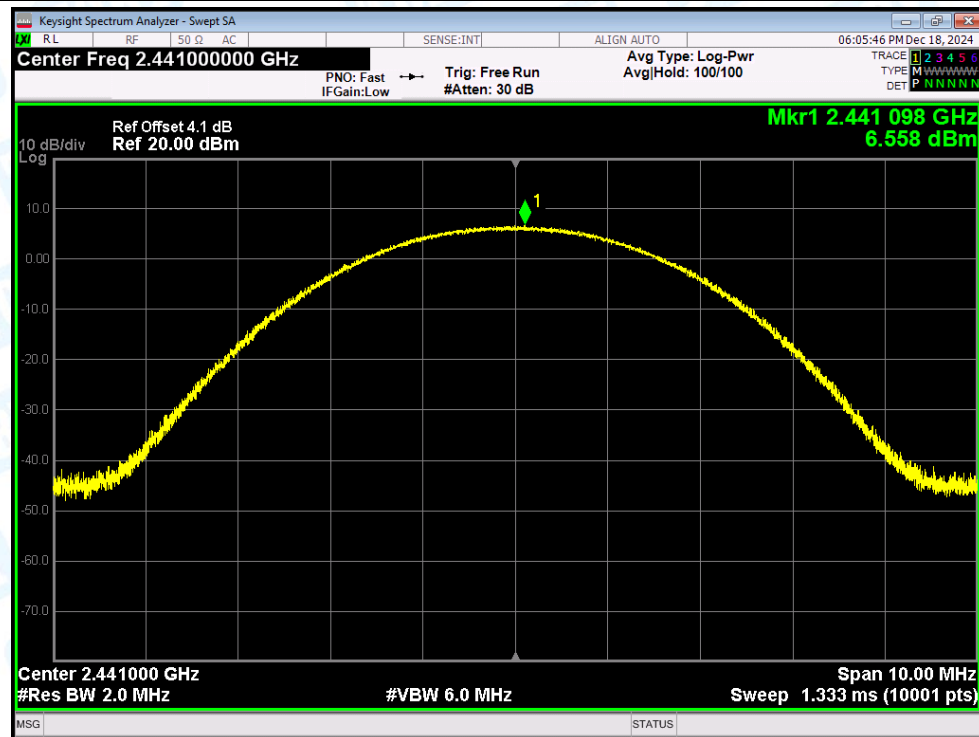
Power NVNT 1-DH5 2441MHz Ant1



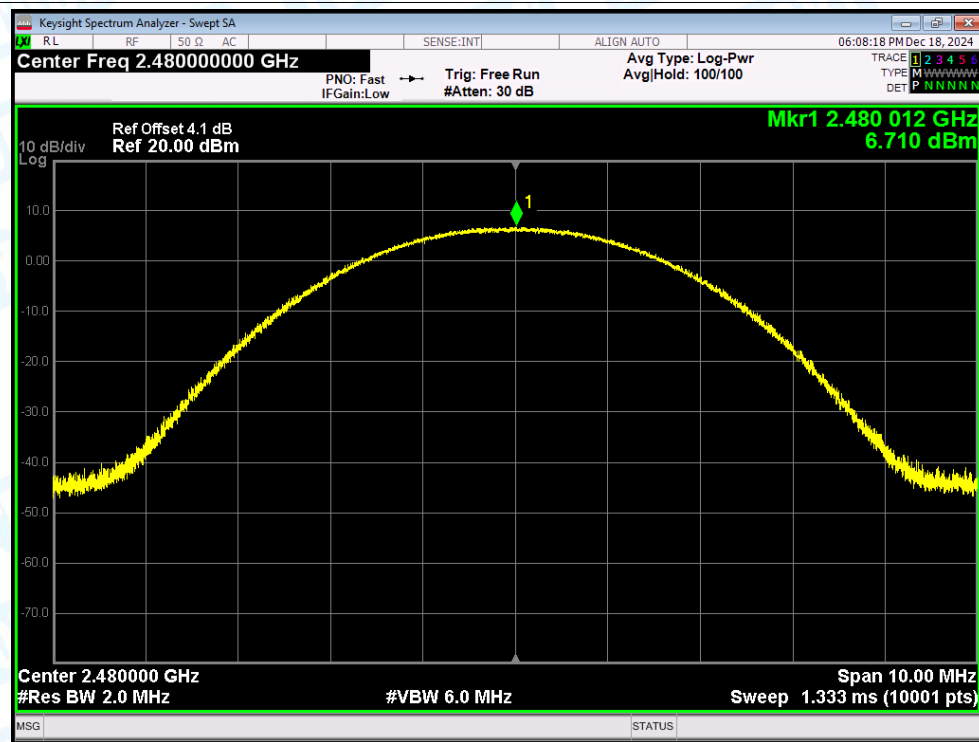
Power NVNT 2-DH1 2402MHz Ant1



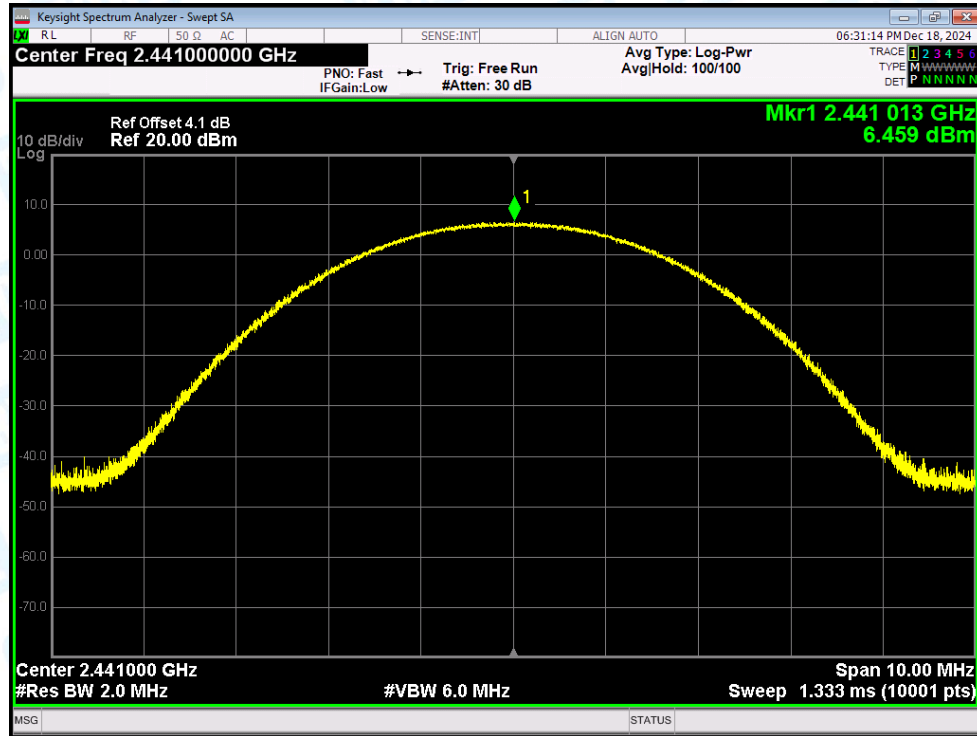
Power NVNT 2-DH1 2441MHz Ant1



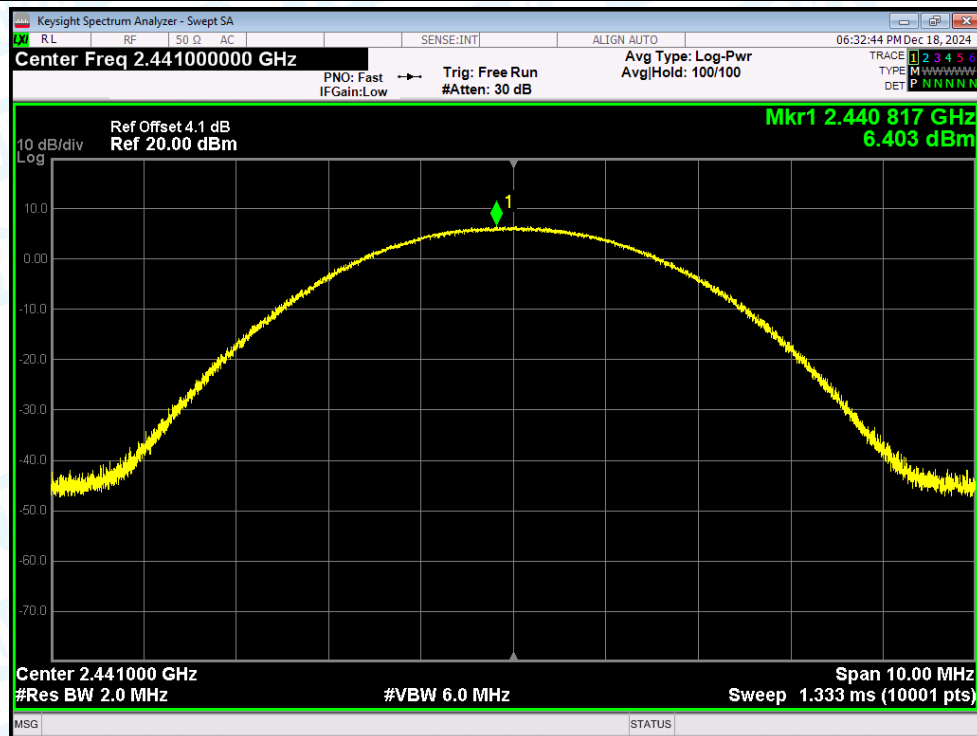
Power NVNT 2-DH1 2480MHz Ant1



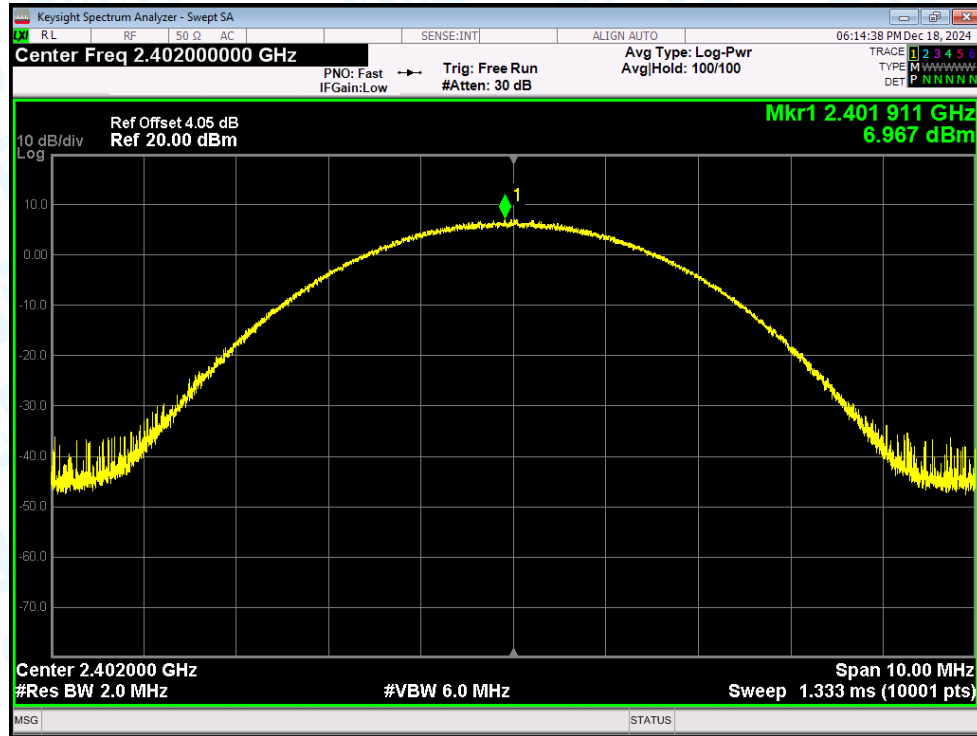
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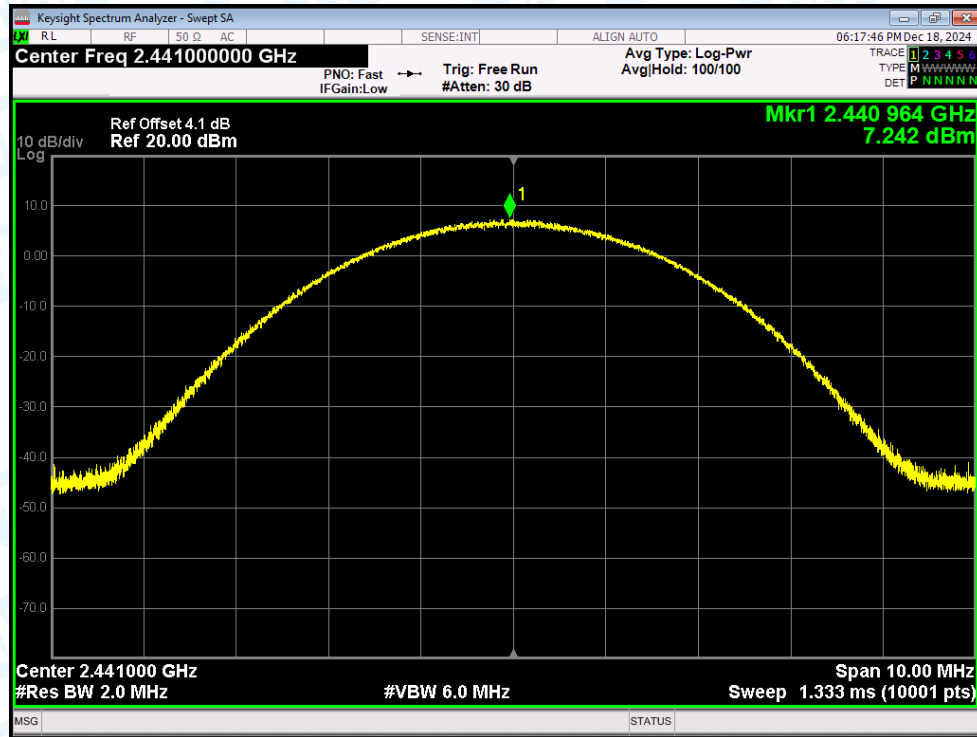
Power NVNT 2-DH5 2441MHz Ant1



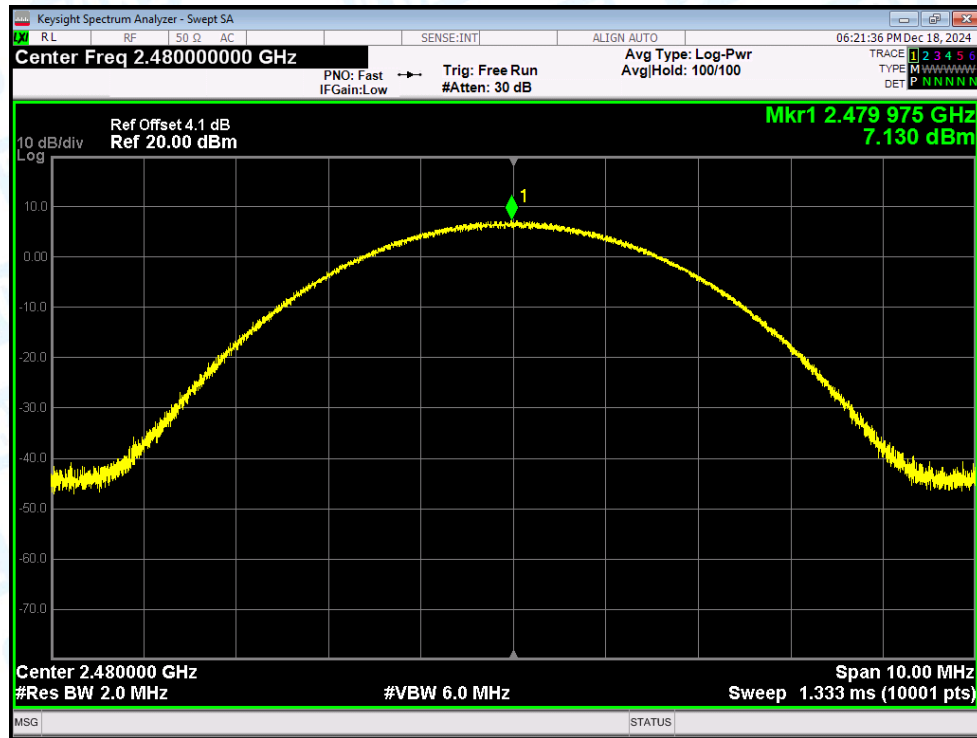
Power NVNT 3-DH1 2402MHz Ant1



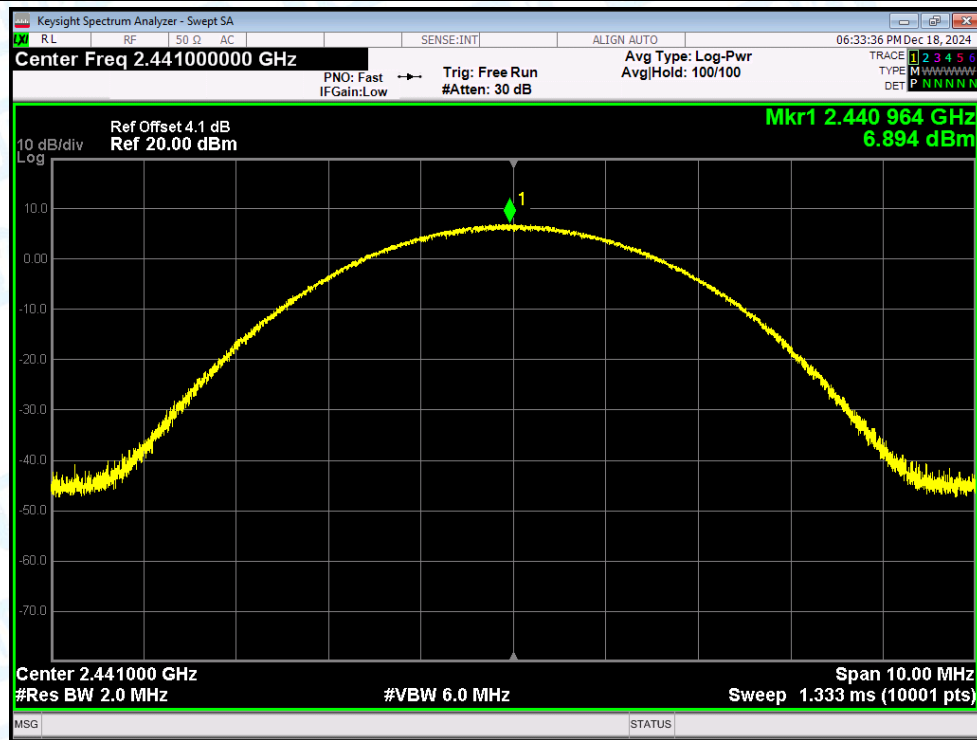
Power NVNT 3-DH1 2441MHz Ant1

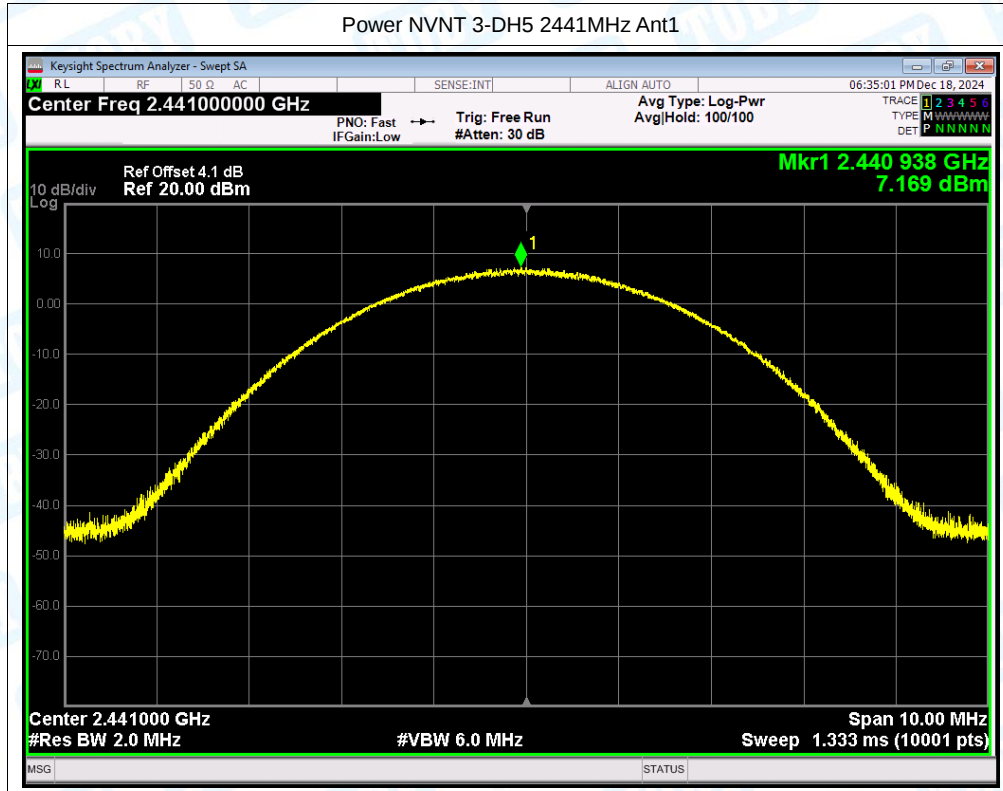


Power NVNT 3-DH1 2480MHz Ant1



Power NVNT 3-DH3 2441MHz Ant1



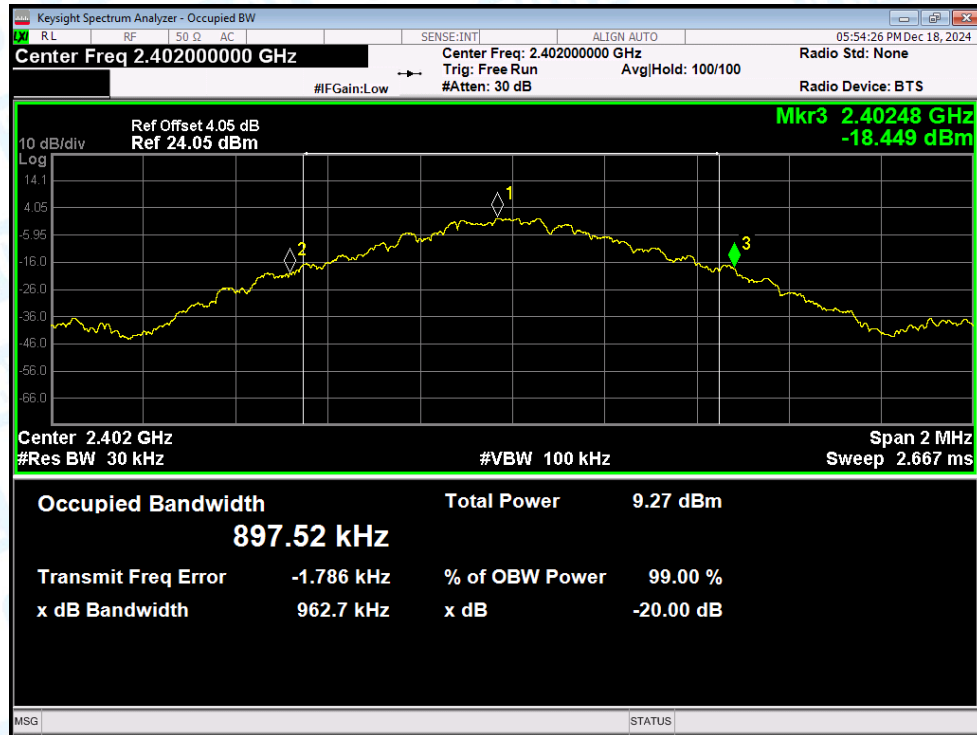


3. -20dB Bandwidth

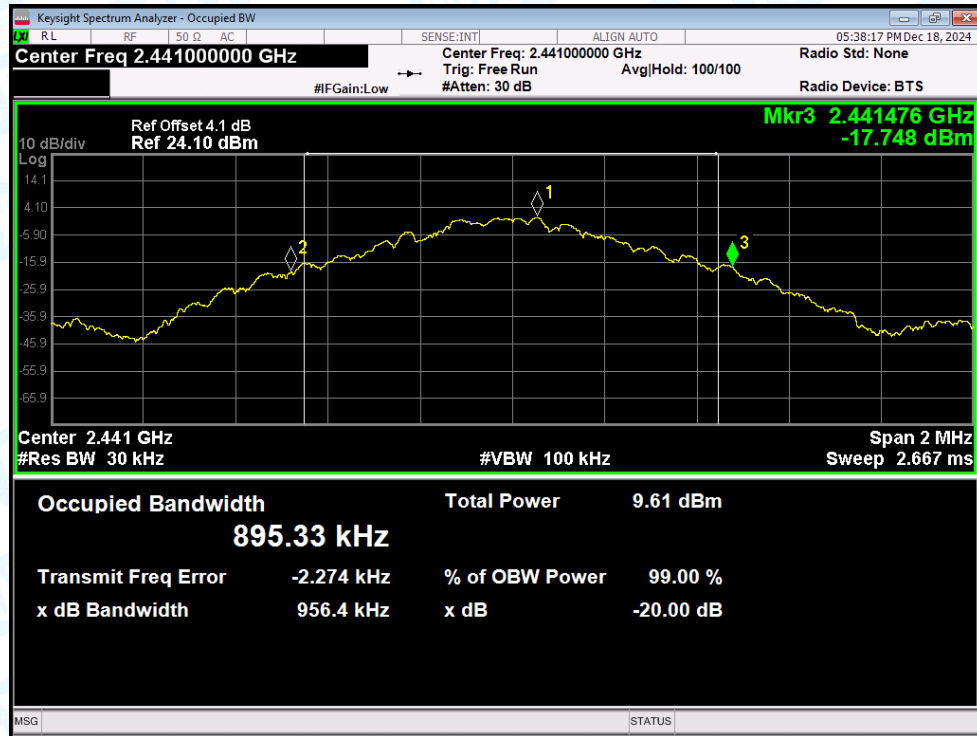
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.96	0	Pass
NVNT	1-DH1	2441	Ant1	0.96	0	Pass
NVNT	1-DH1	2480	Ant1	0.96	0	Pass
NVNT	2-DH1	2402	Ant1	1.37	0	Pass
NVNT	2-DH1	2441	Ant1	1.36	0	Pass
NVNT	2-DH1	2480	Ant1	1.37	0	Pass
NVNT	3-DH1	2402	Ant1	1.35	0	Pass
NVNT	3-DH1	2441	Ant1	1.35	0	Pass
NVNT	3-DH1	2480	Ant1	1.35	0	Pass

Test Graphs

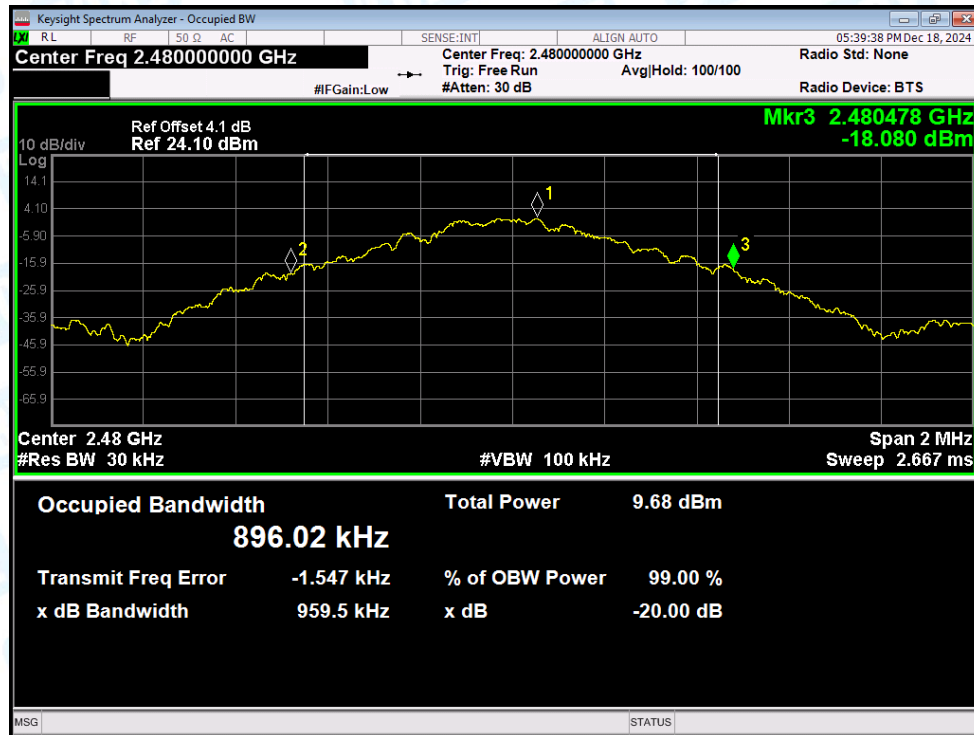
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



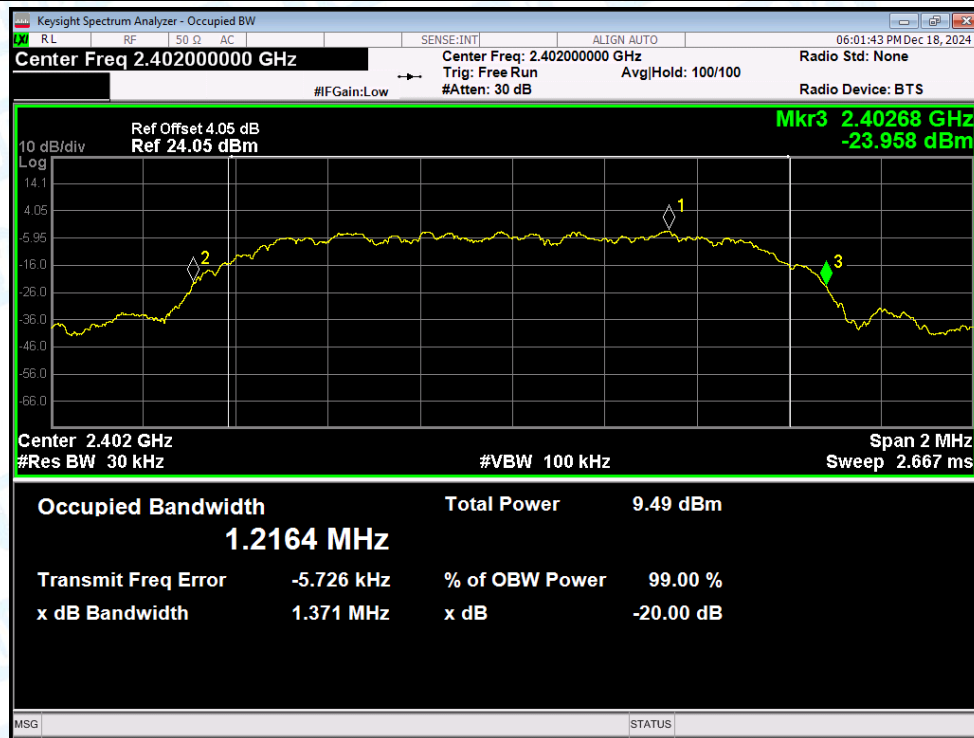
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



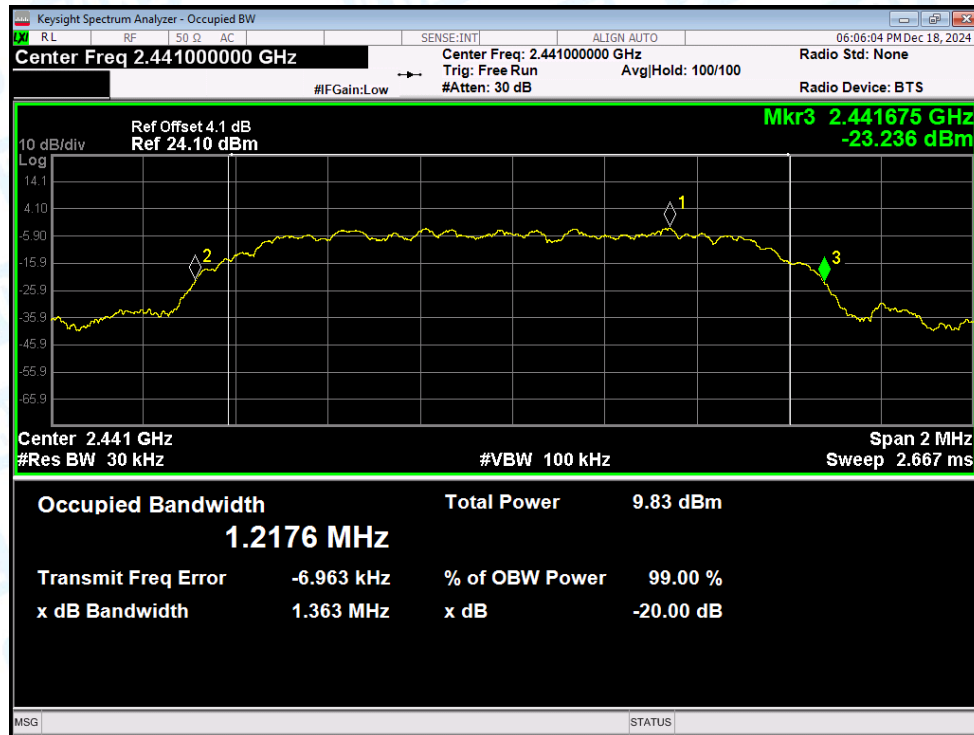
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



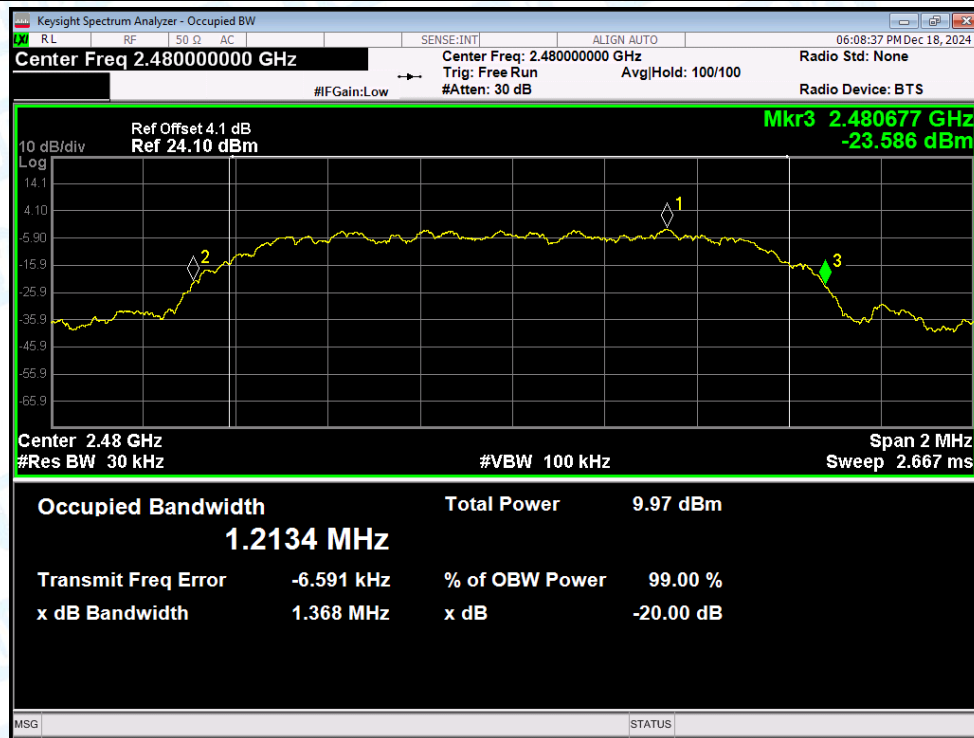
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



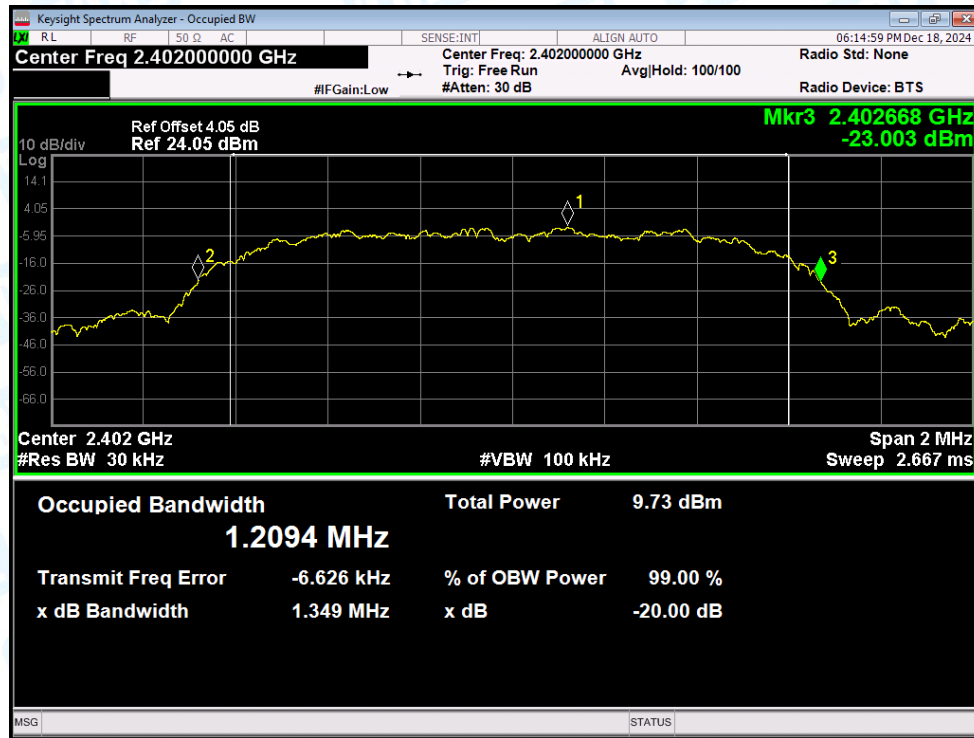
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



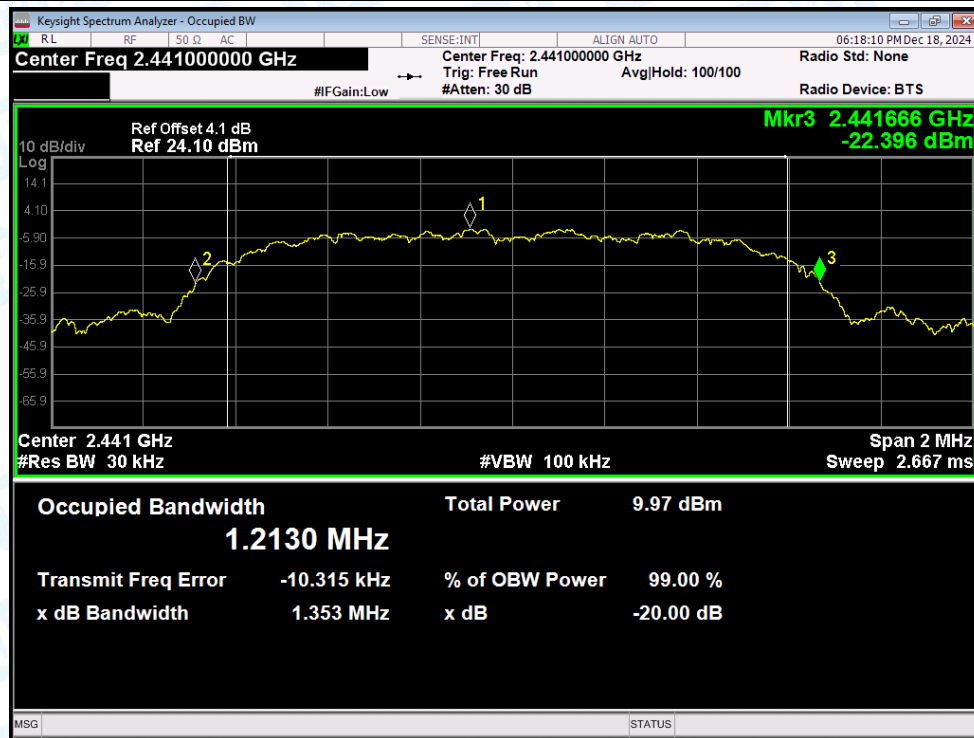
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

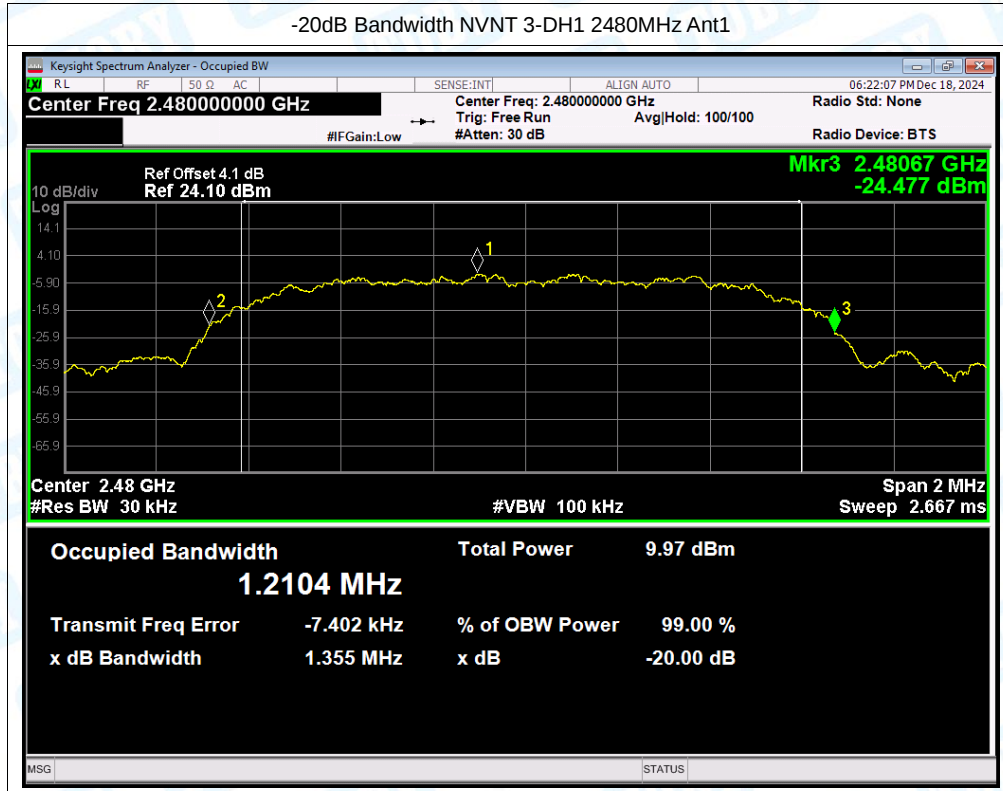


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



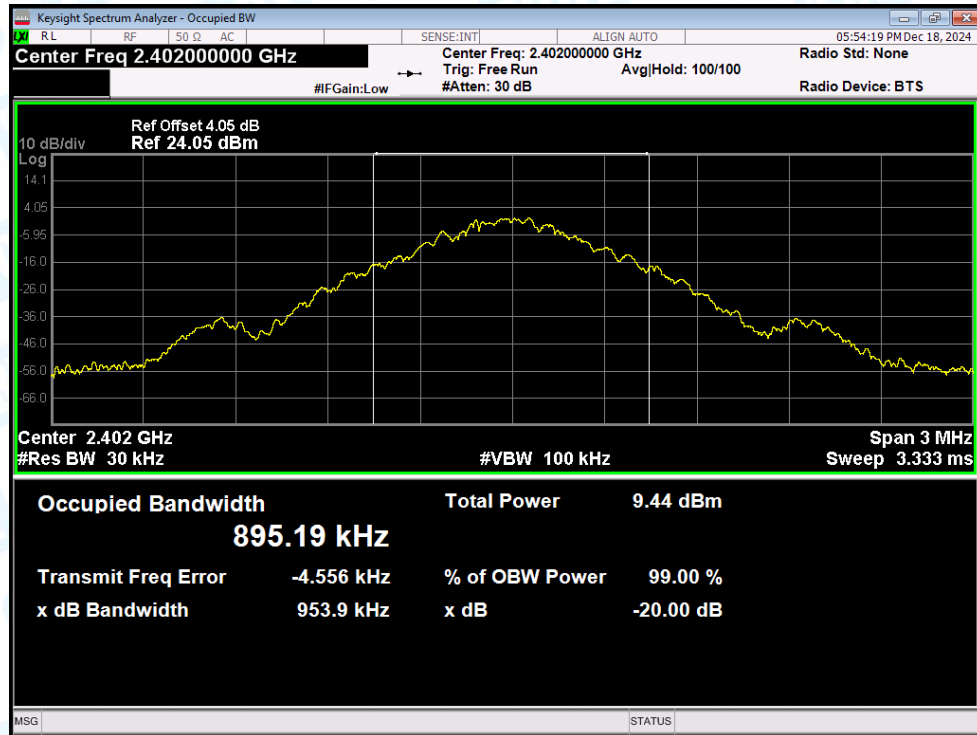


4. Occupied Channel Bandwidth

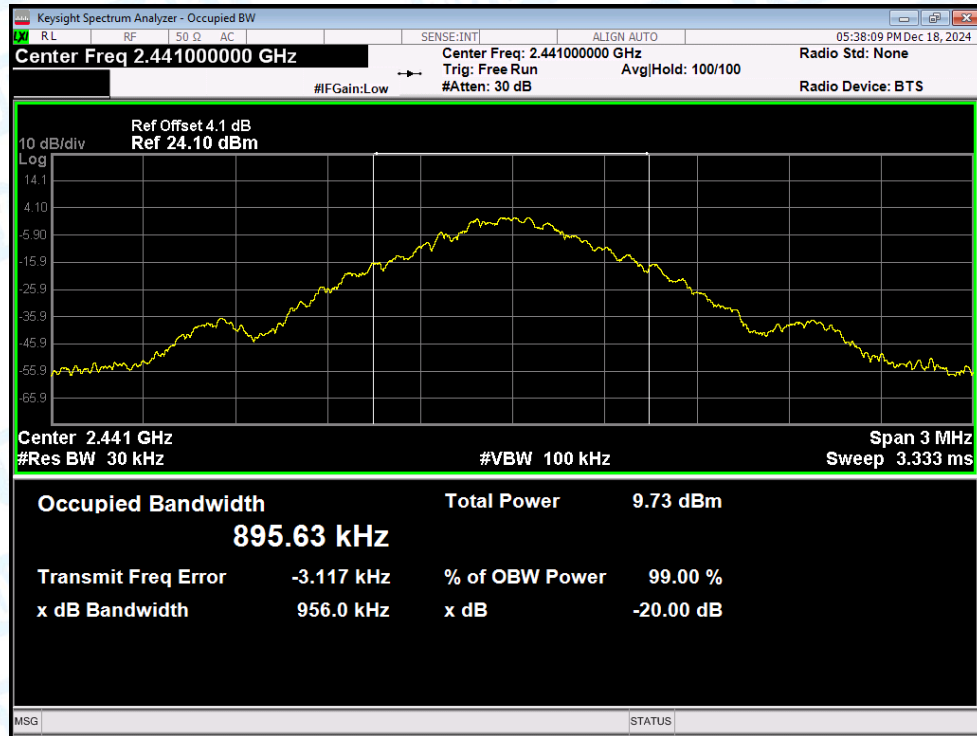
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.895
NVNT	1-DH1	2441	Ant1	0.896
NVNT	1-DH1	2480	Ant1	0.894
NVNT	2-DH1	2402	Ant1	1.221
NVNT	2-DH1	2441	Ant1	1.223
NVNT	2-DH1	2480	Ant1	1.218
NVNT	3-DH1	2402	Ant1	1.22
NVNT	3-DH1	2441	Ant1	1.219
NVNT	3-DH1	2480	Ant1	1.222

Test Graphs

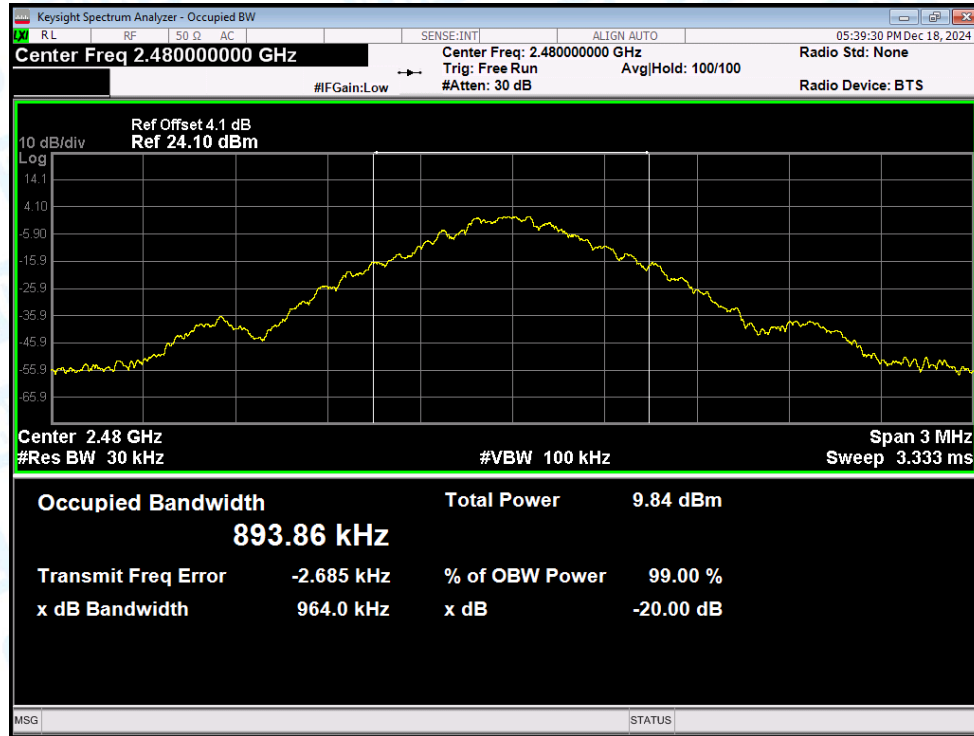
OBW NVNT 1-DH1 2402MHz Ant1



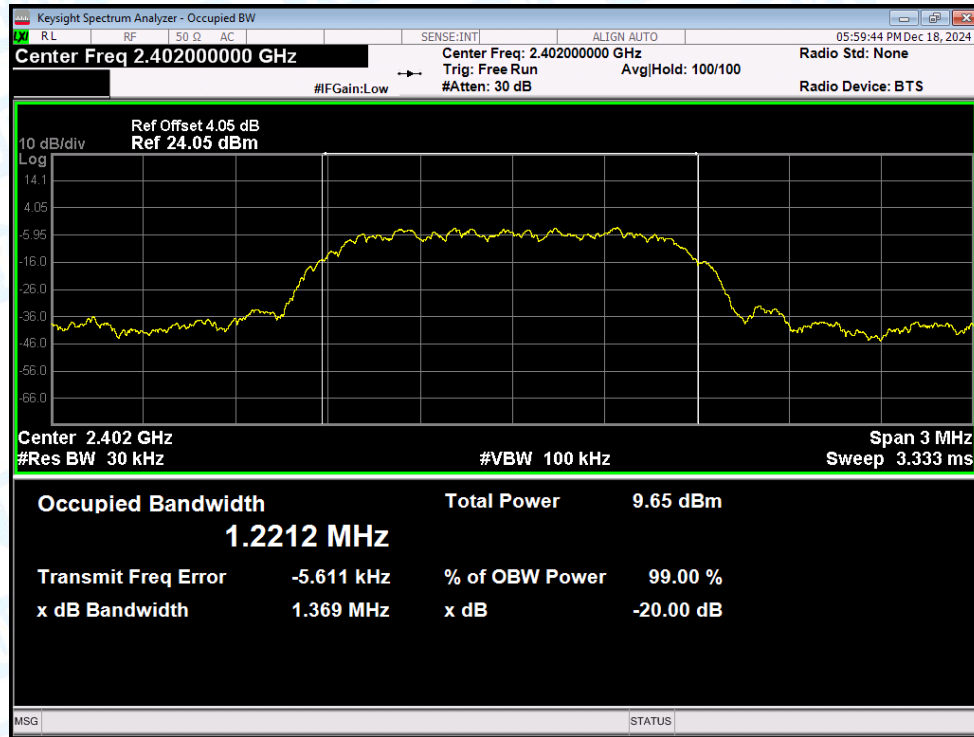
OBW NVNT 1-DH1 2441MHz Ant1



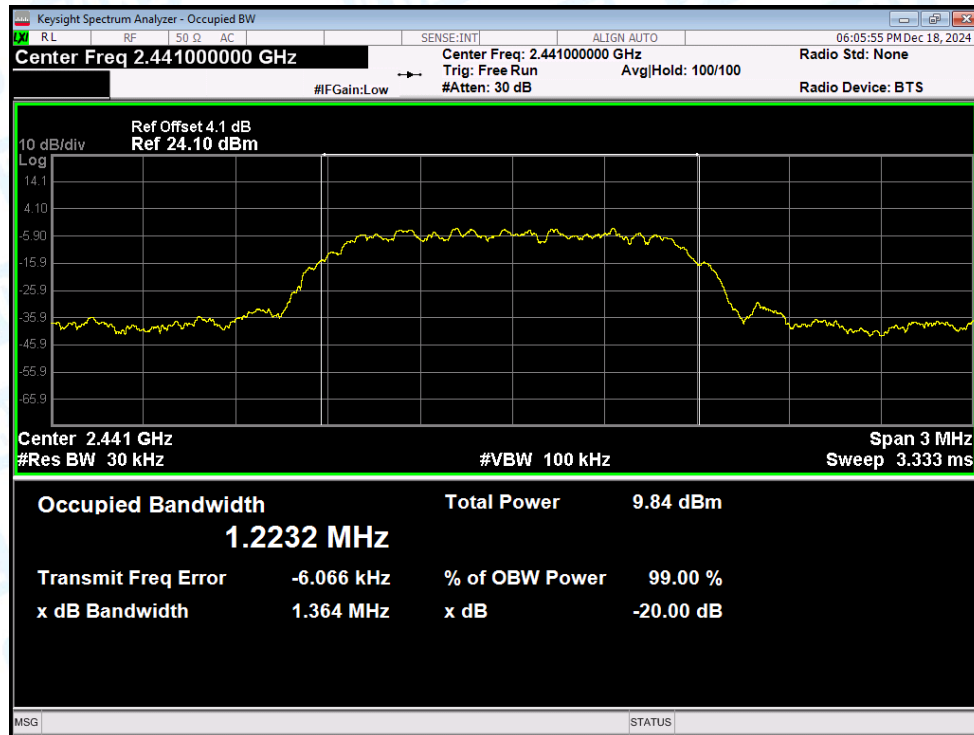
OBW NVNT 1-DH1 2480MHz Ant1



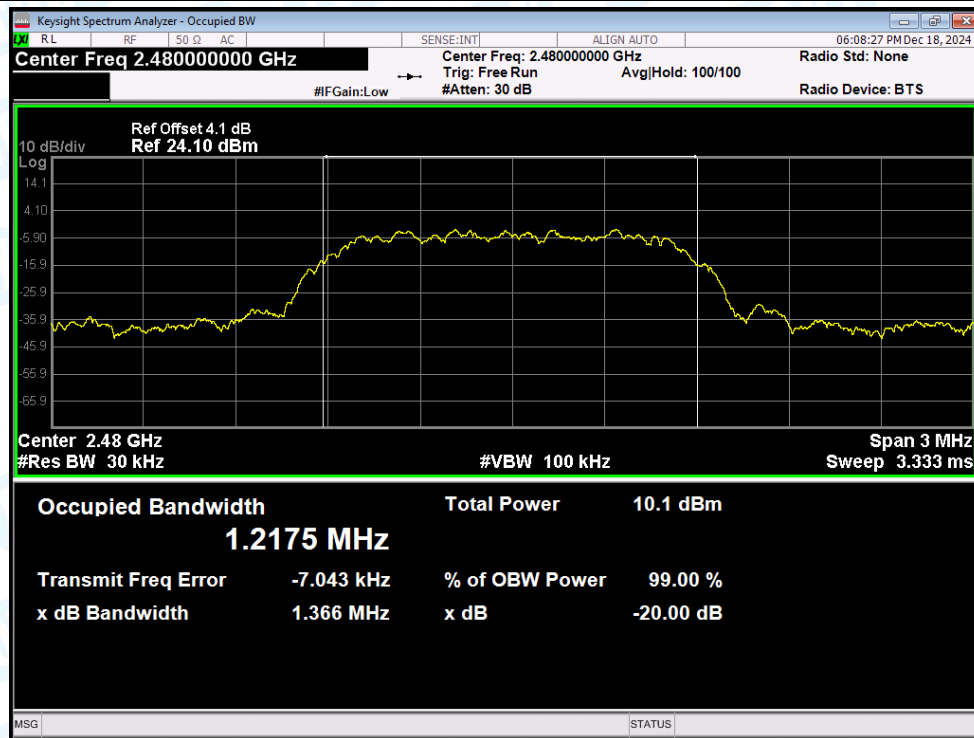
OBW NVNT 2-DH1 2402MHz Ant1



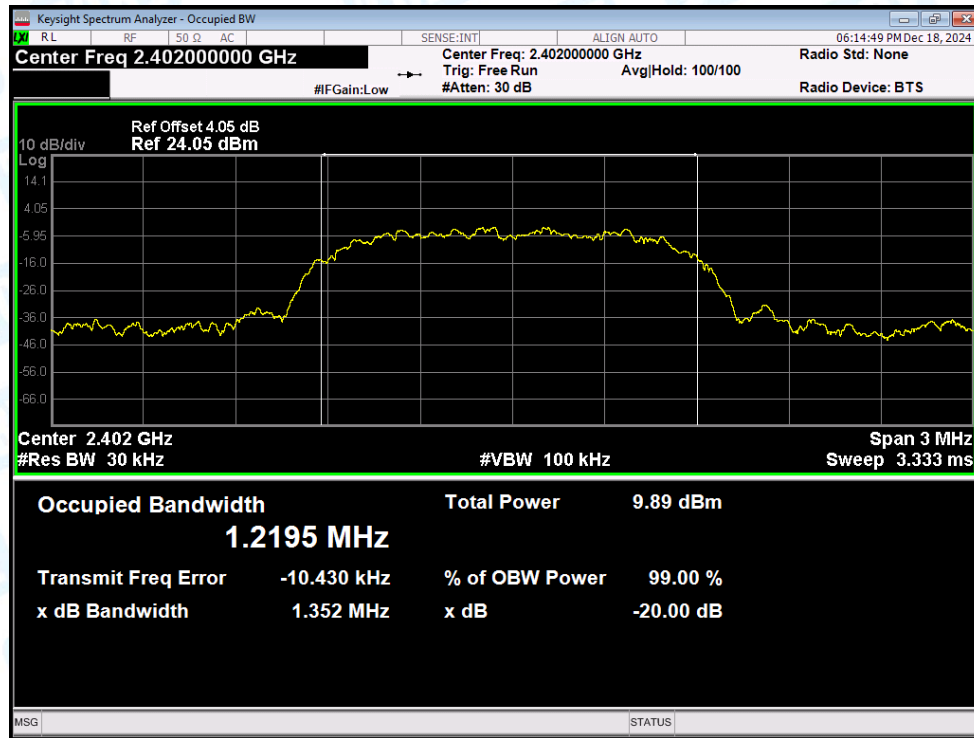
OBW NVNT 2-DH1 2441MHz Ant1



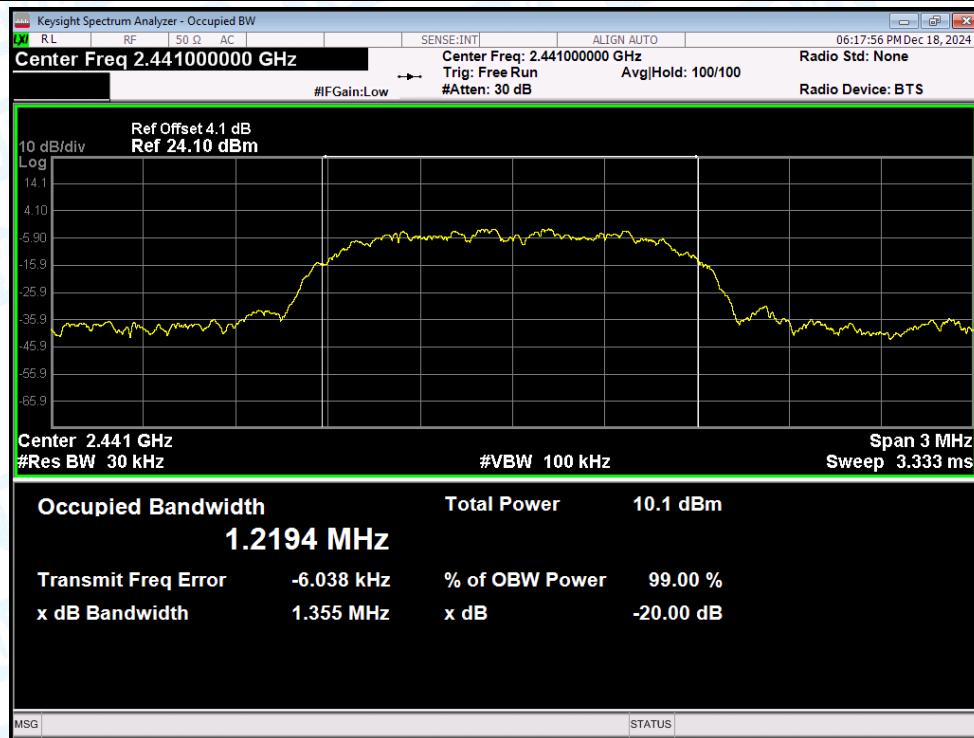
OBW NVNT 2-DH1 2480MHz Ant1

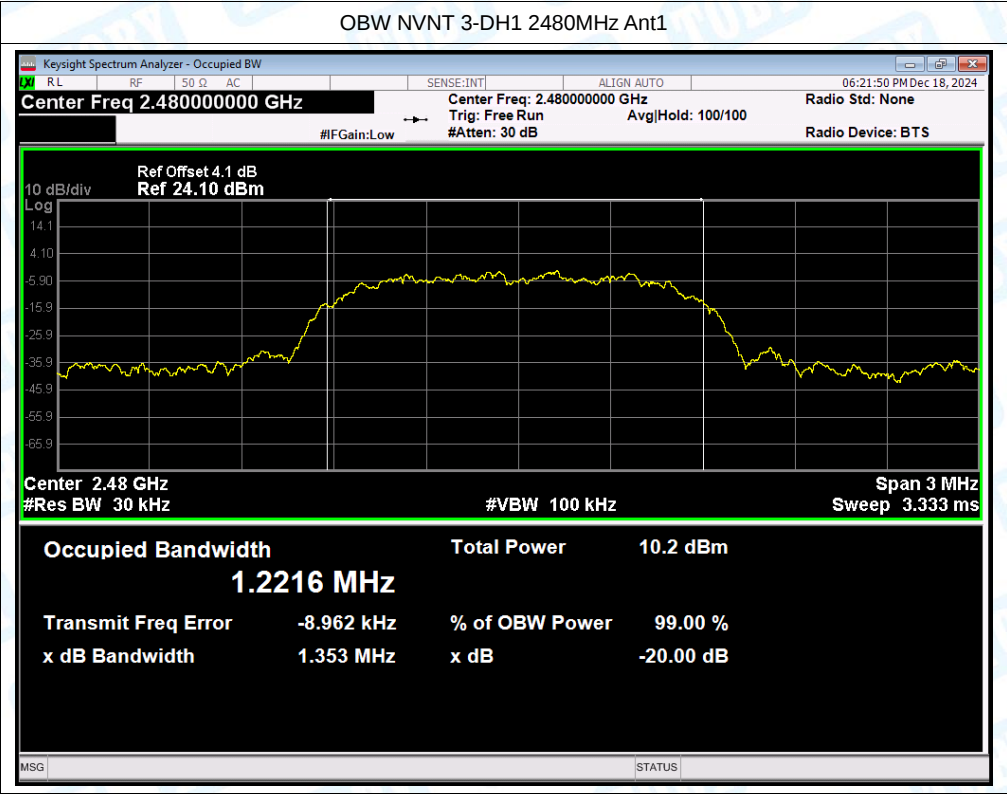


OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1



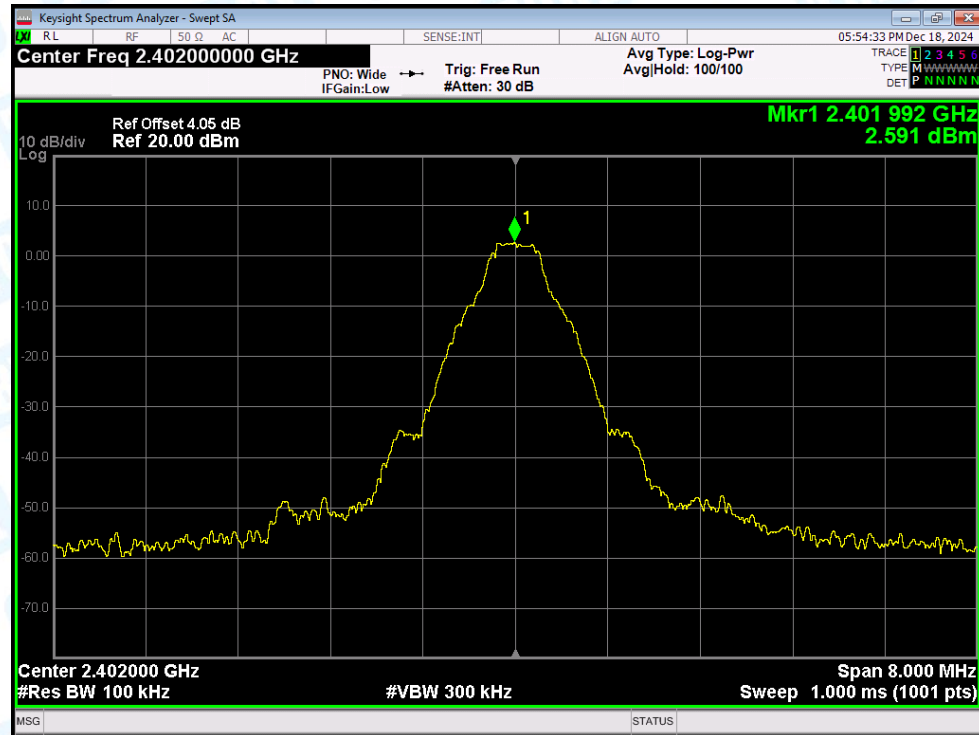


5. Band Edge

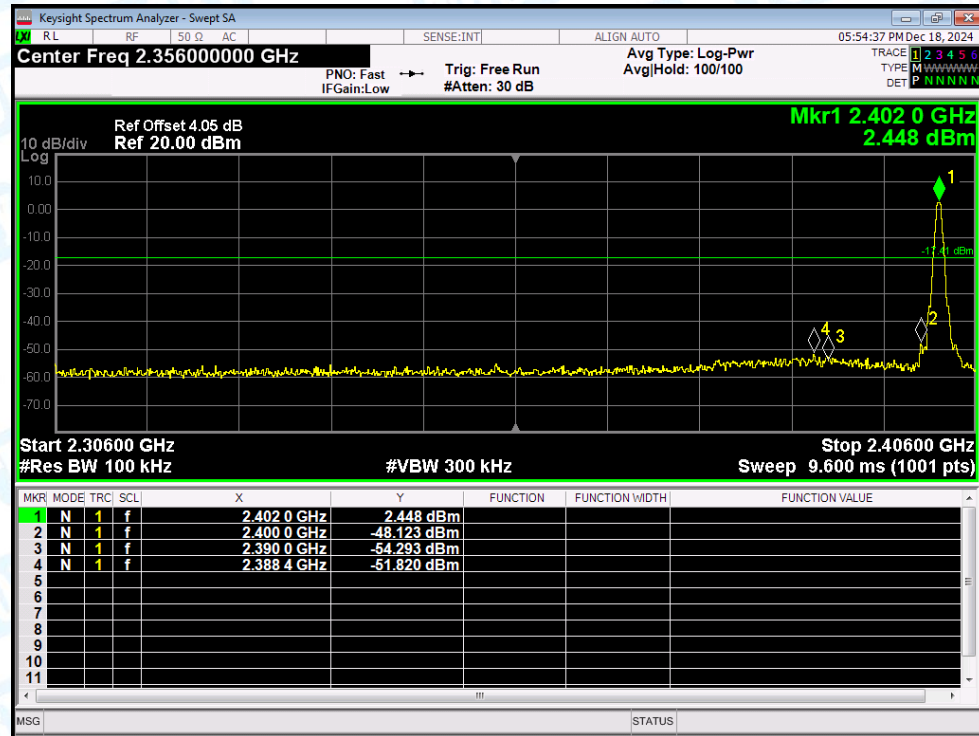
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-54.41	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-54.4	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-55.4	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-55.18	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-55.72	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-55.63	-20	Pass

Test Graphs

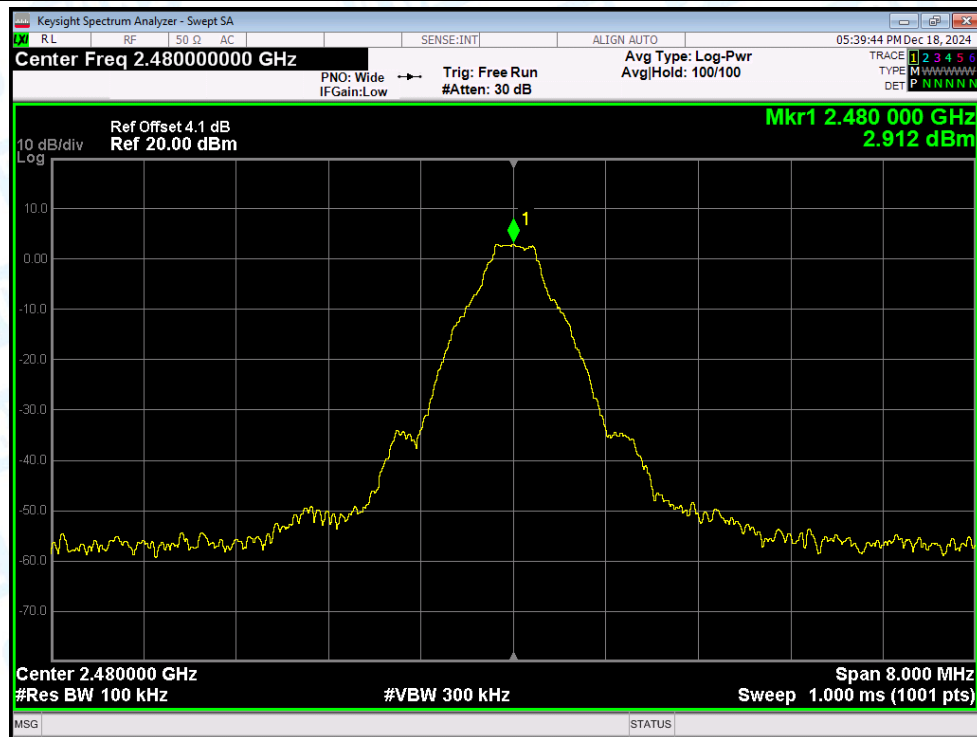
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



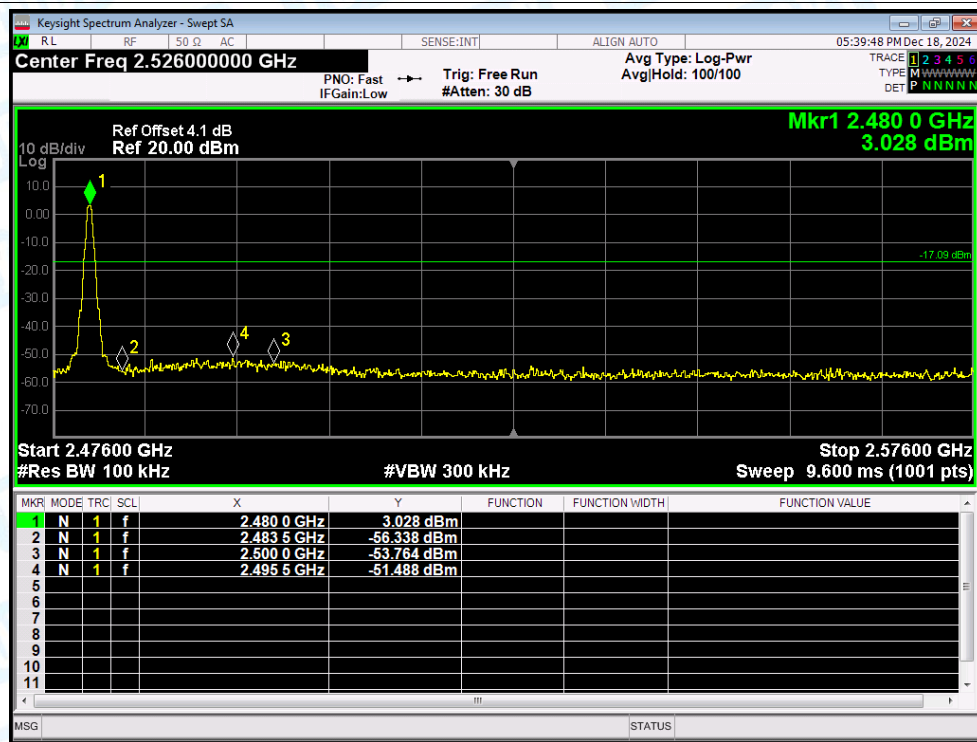
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



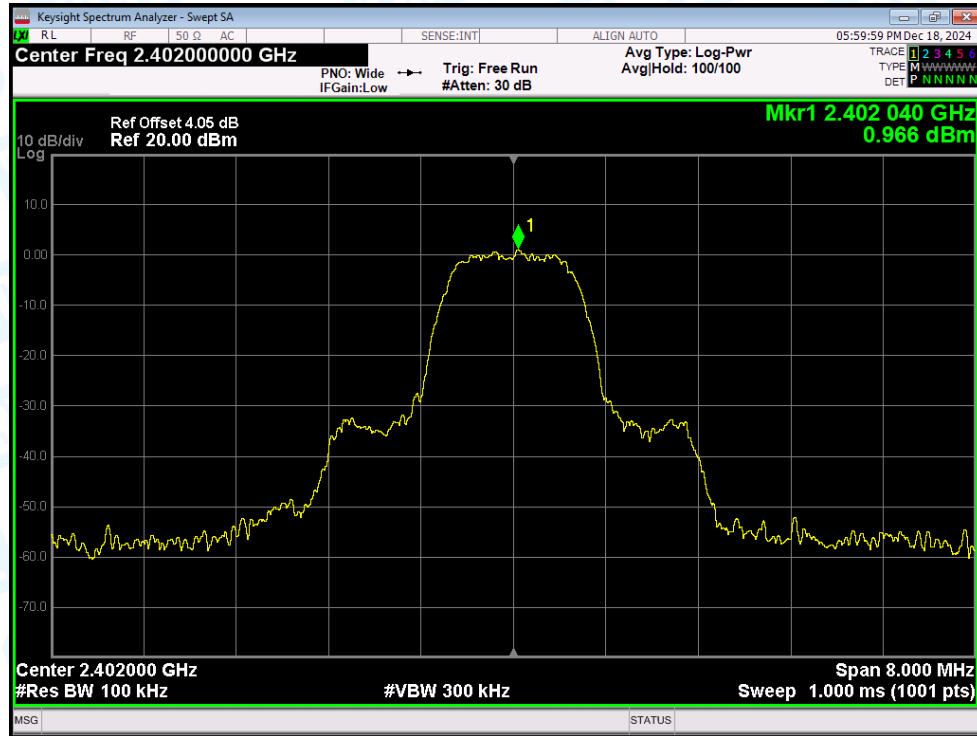
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



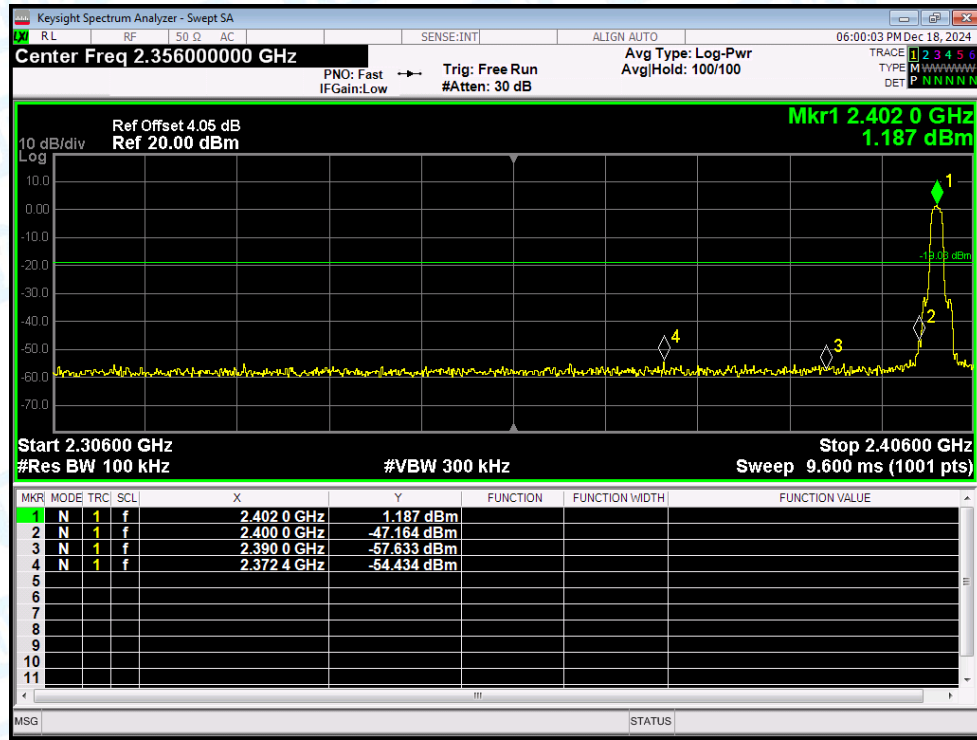
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



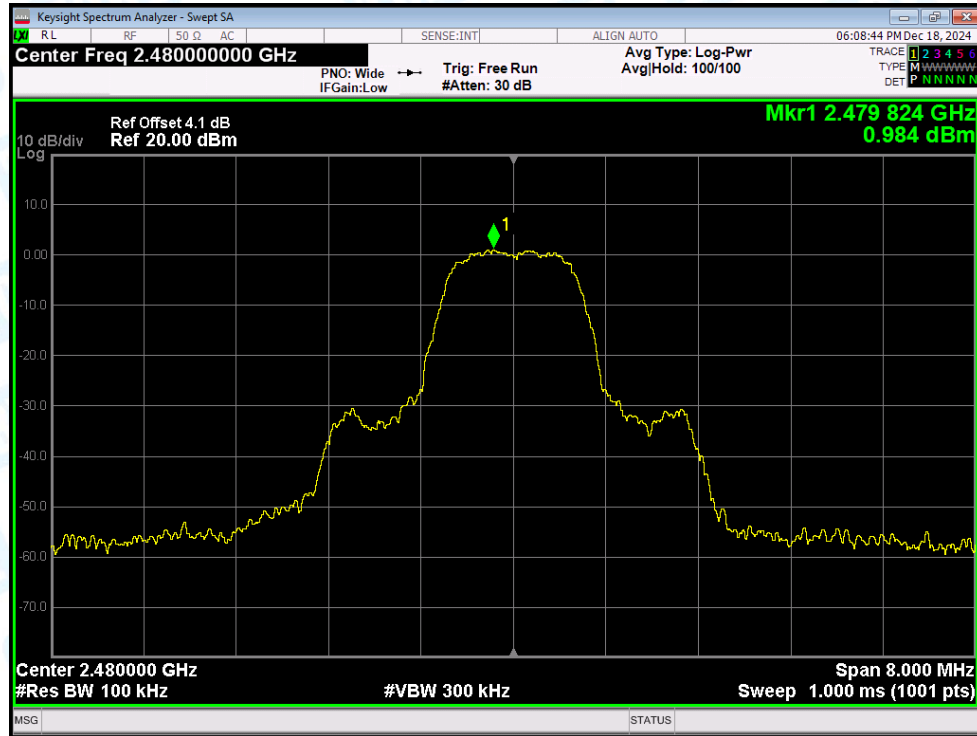
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



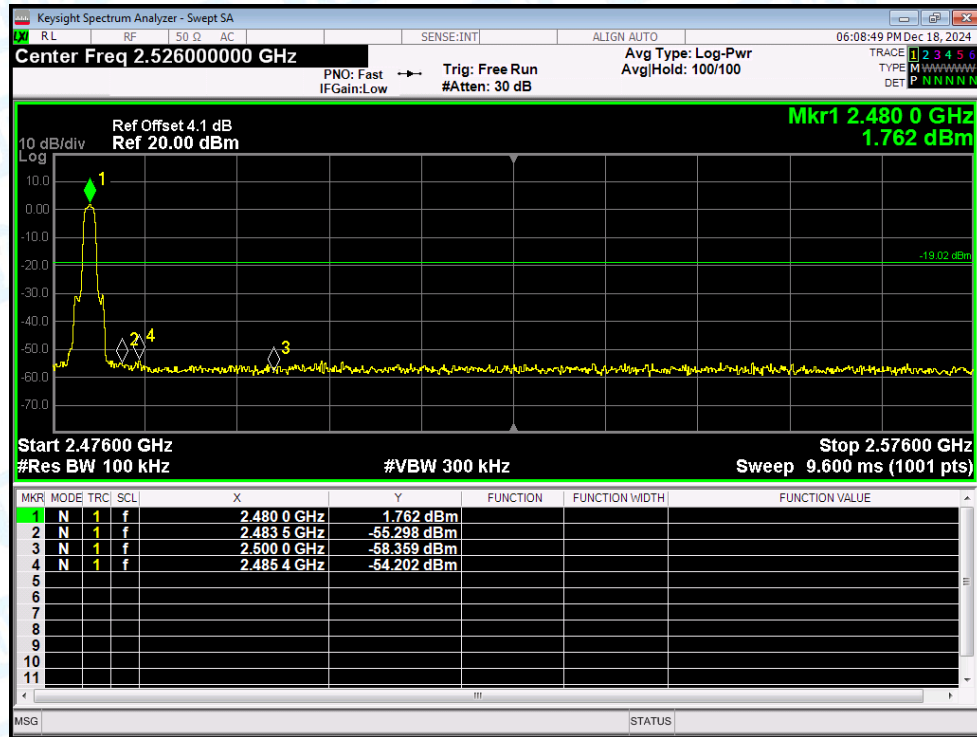
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Ref



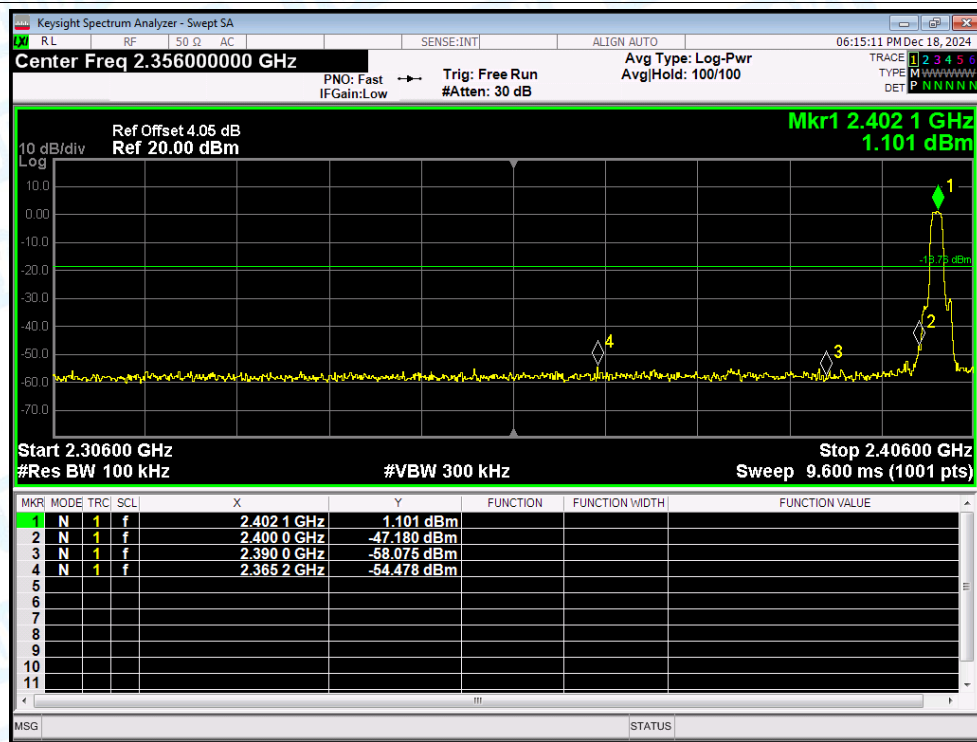
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission



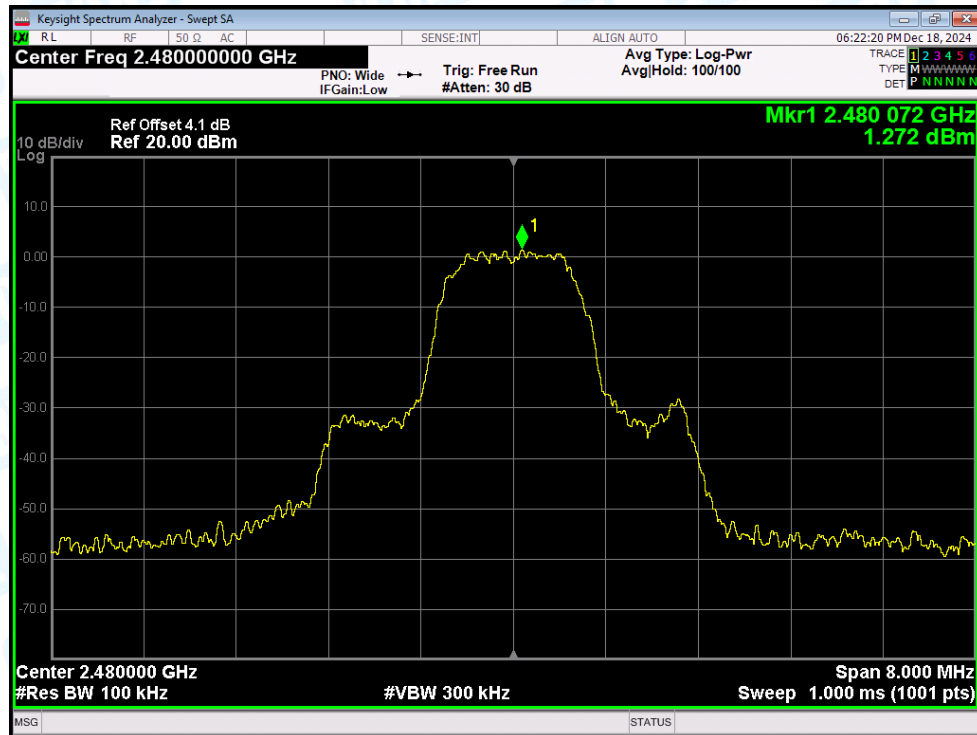
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Ref



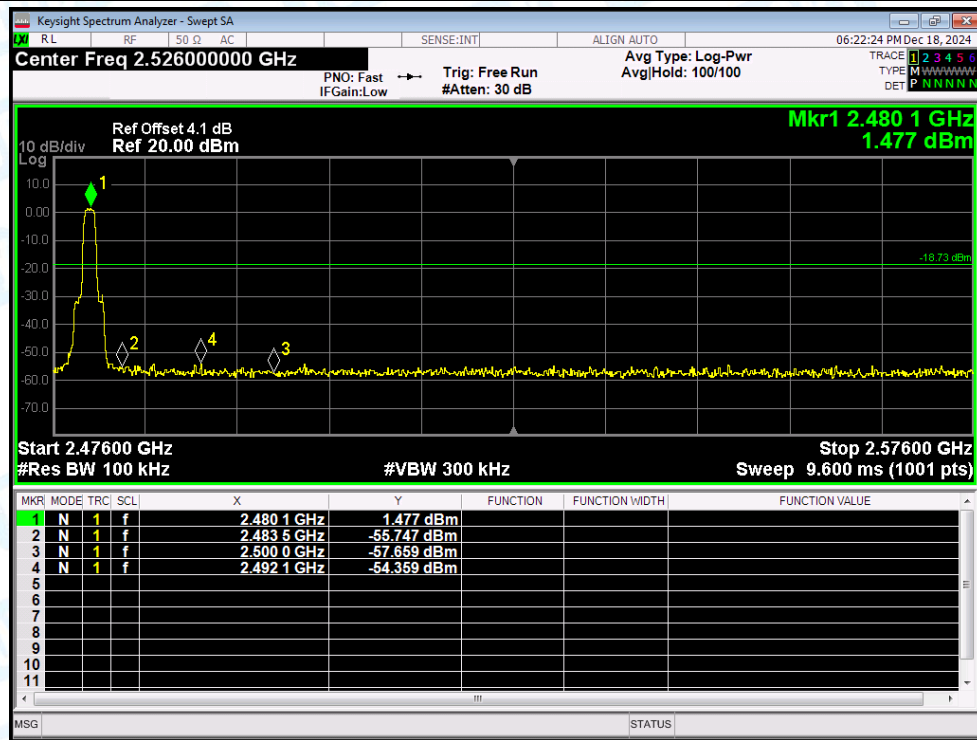
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission



Band Edge NVNT 3-DH1 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 3-DH1 2480MHz Ant1 No-Hopping Emission

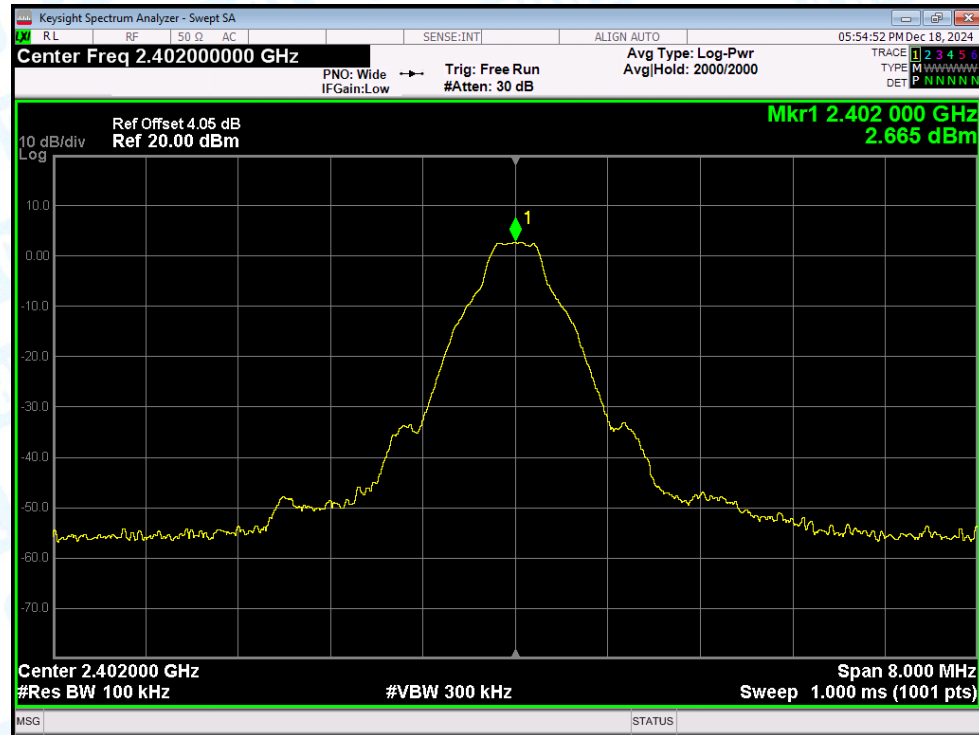


6. Band Edge(Hopping)

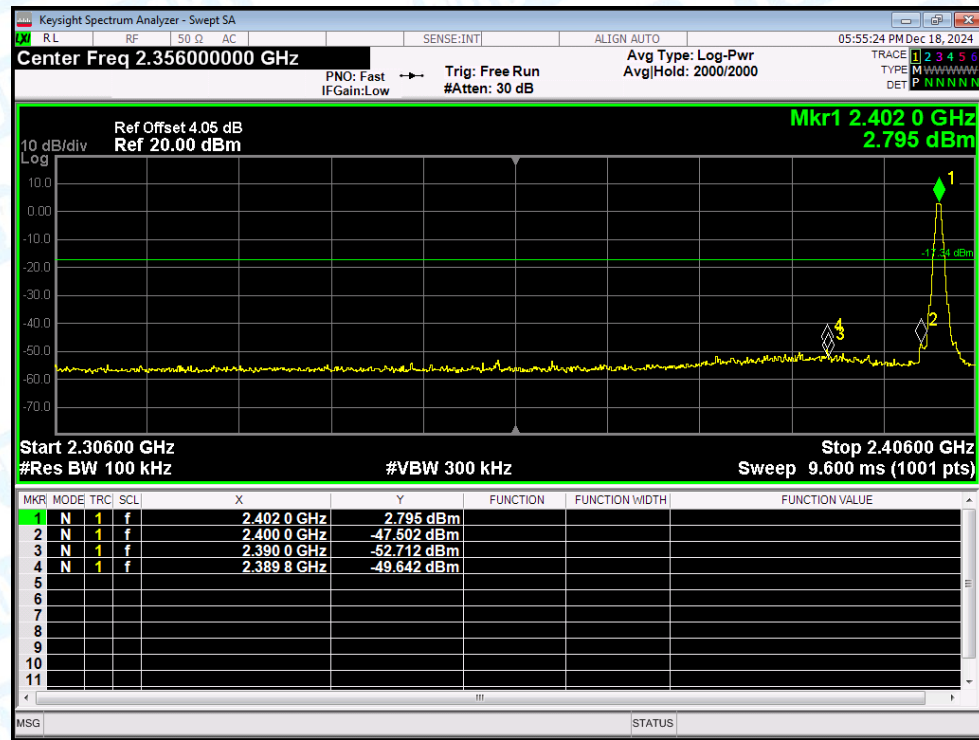
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-52.31	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-53.44	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-57.74	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-56.45	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-57.35	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-57.16	-20	Pass

Test Graphs

Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Ref



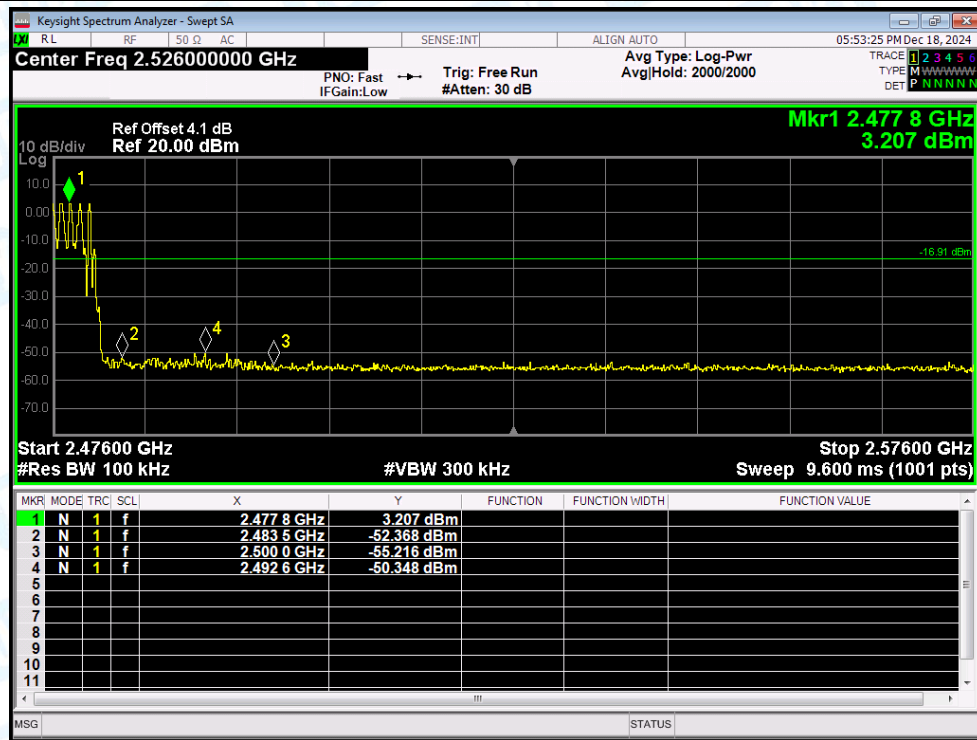
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Ref



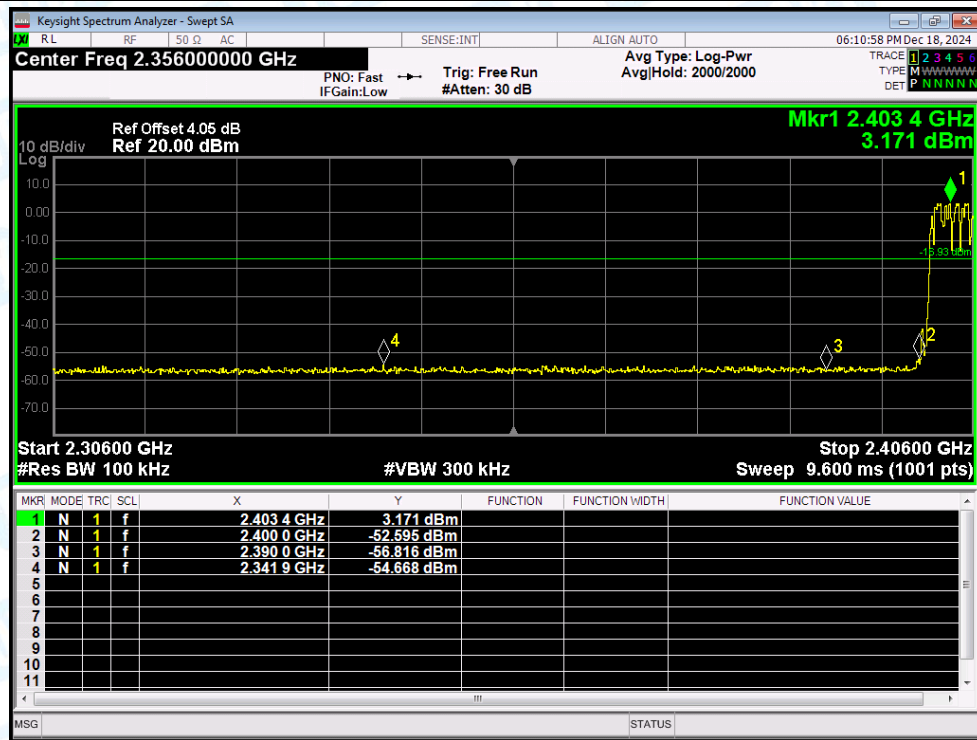
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Ref



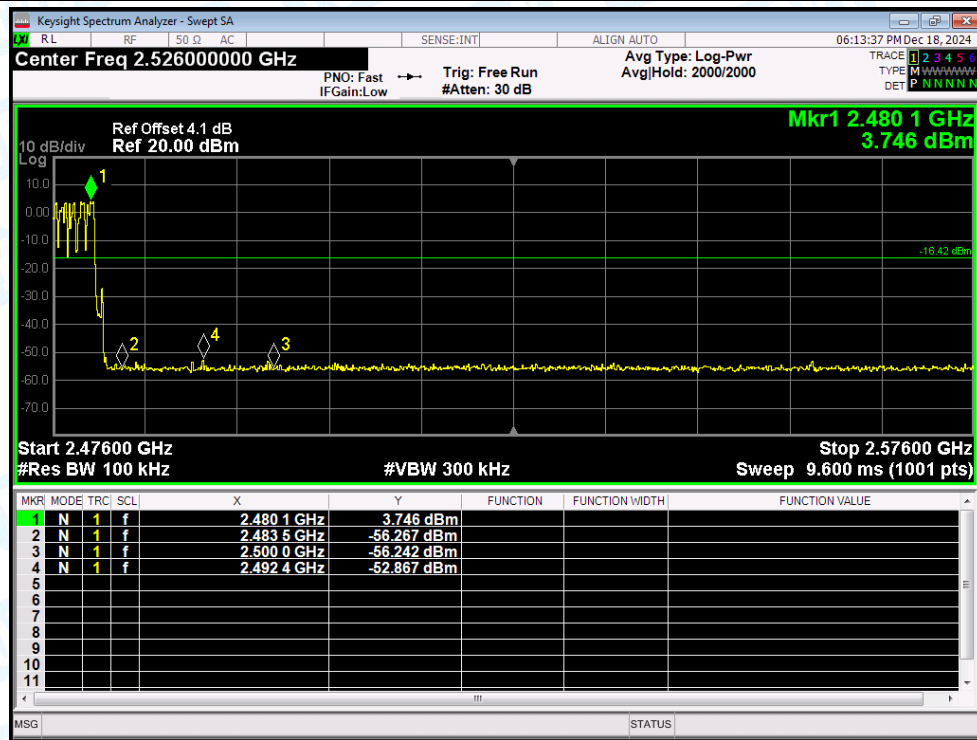
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Ref



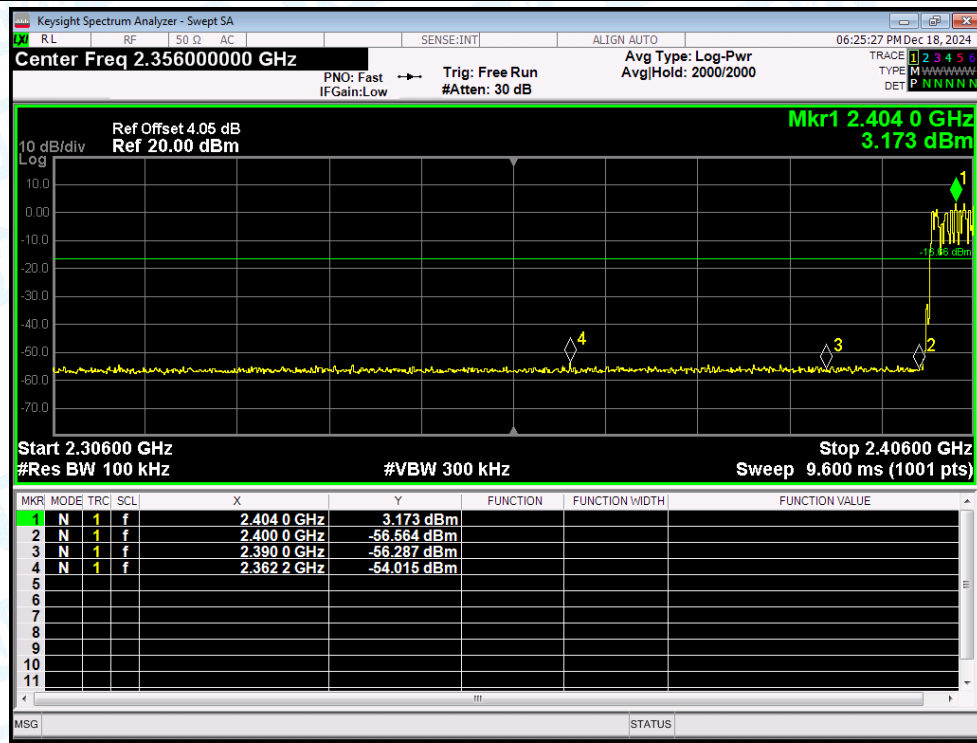
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Ref



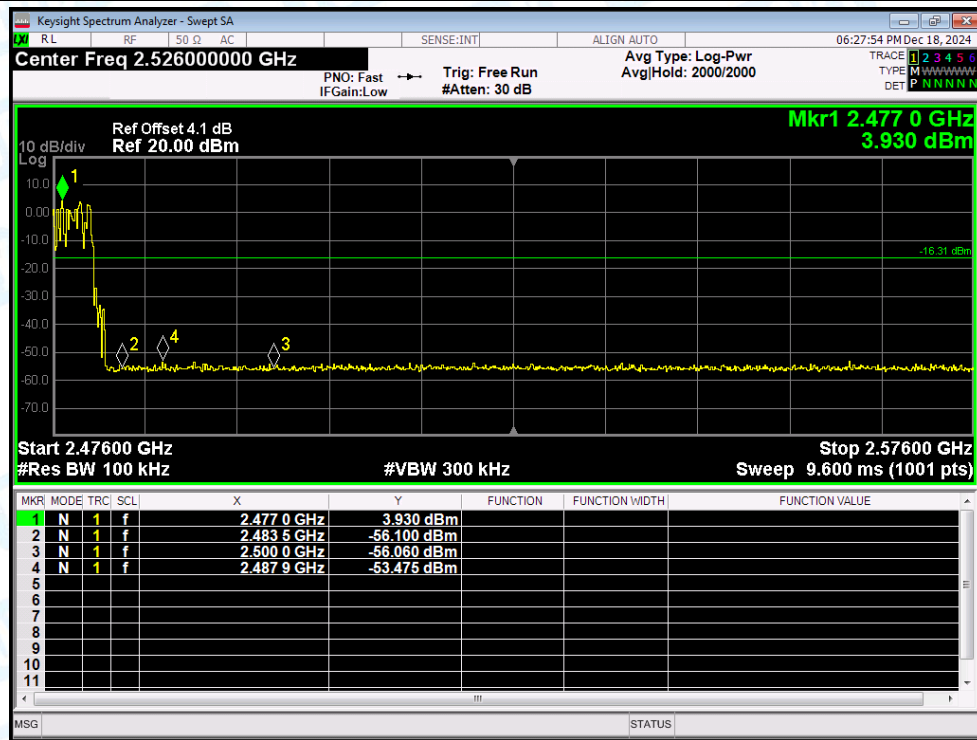
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 3-DH1 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-DH1 2480MHz Ant1 Hopping Emission

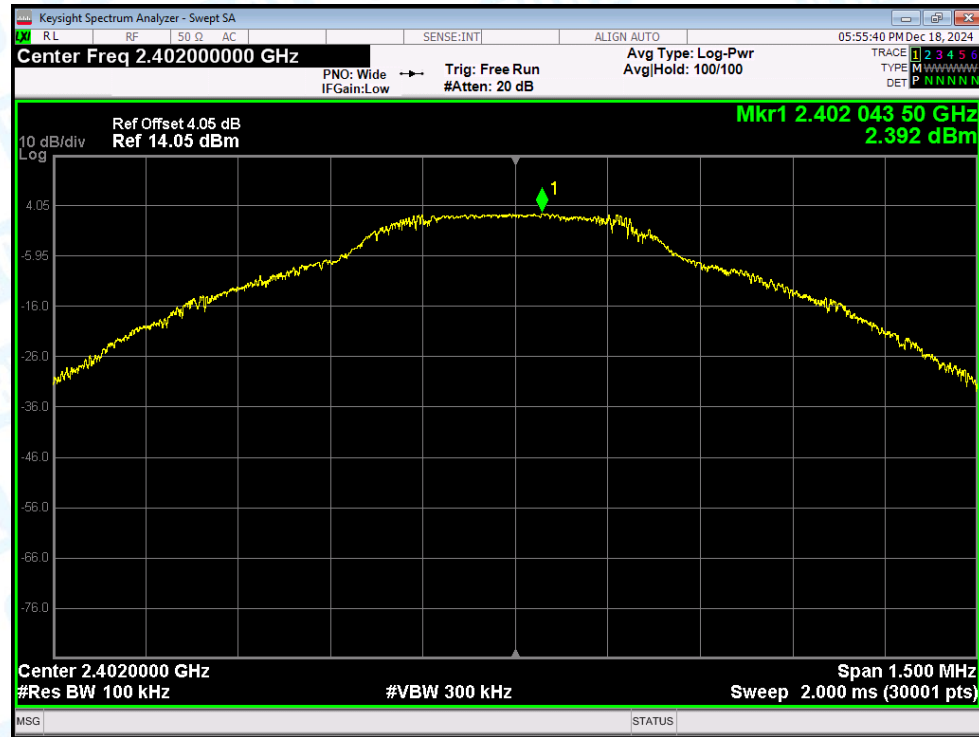


7. Conducted RF Spurious Emission

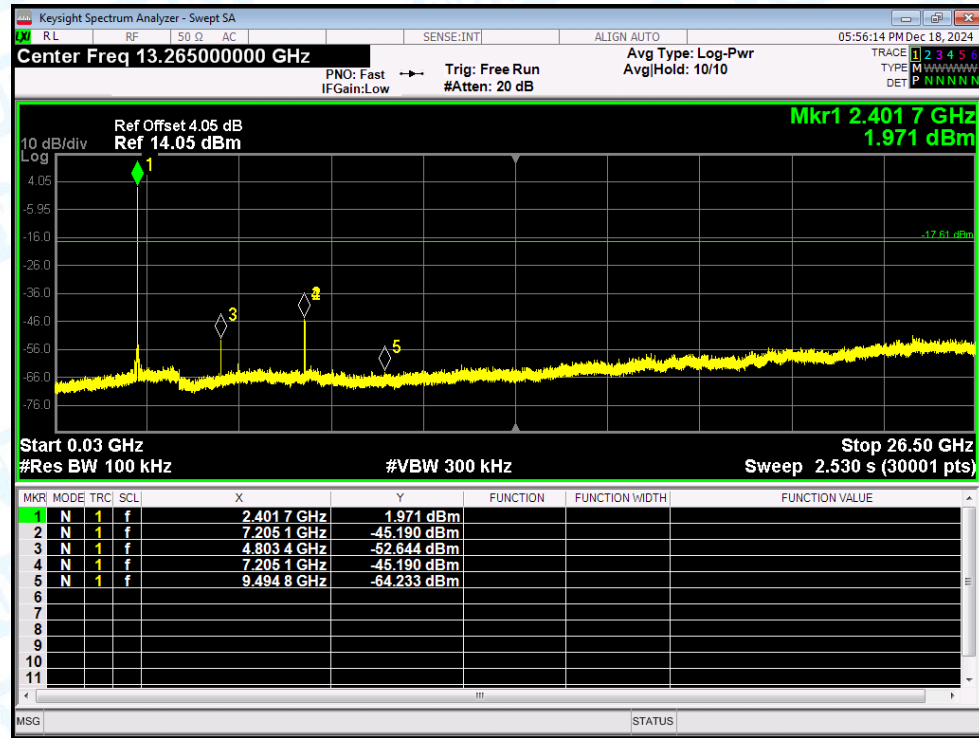
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-47.58	-20	Pass
NVNT	1-DH1	2441	Ant1	-49.26	-20	Pass
NVNT	1-DH1	2480	Ant1	-49.96	-20	Pass
NVNT	2-DH1	2402	Ant1	-52.72	-20	Pass
NVNT	2-DH1	2441	Ant1	-53.36	-20	Pass
NVNT	2-DH1	2480	Ant1	-53.17	-20	Pass
NVNT	3-DH1	2402	Ant1	-53.41	-20	Pass
NVNT	3-DH1	2441	Ant1	-53.25	-20	Pass
NVNT	3-DH1	2480	Ant1	-53.45	-20	Pass

Test Graphs

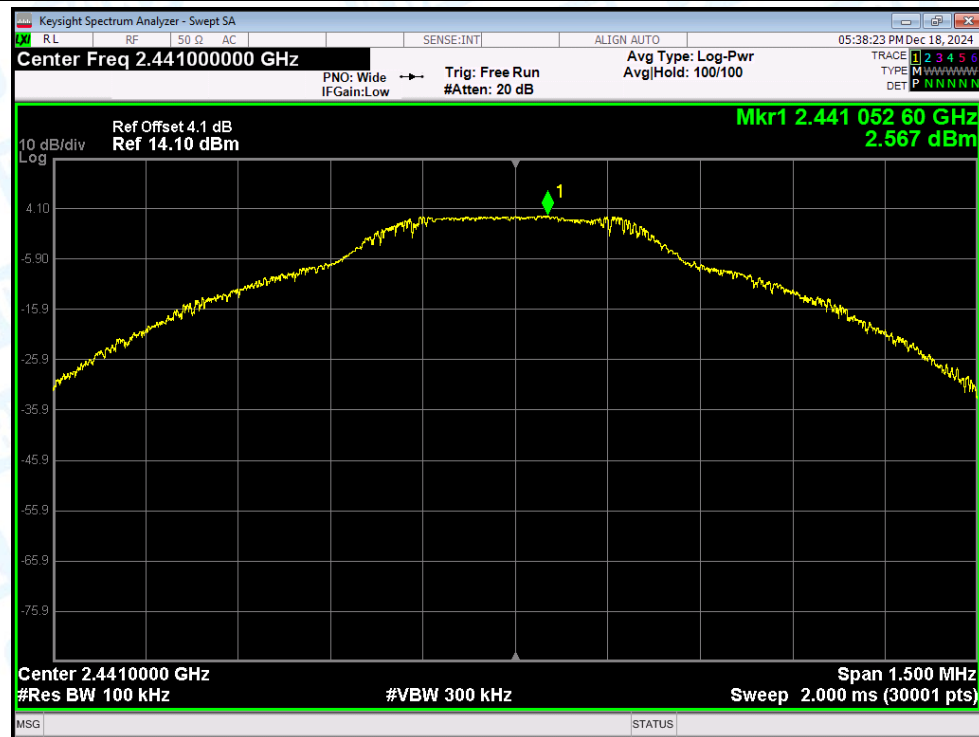
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



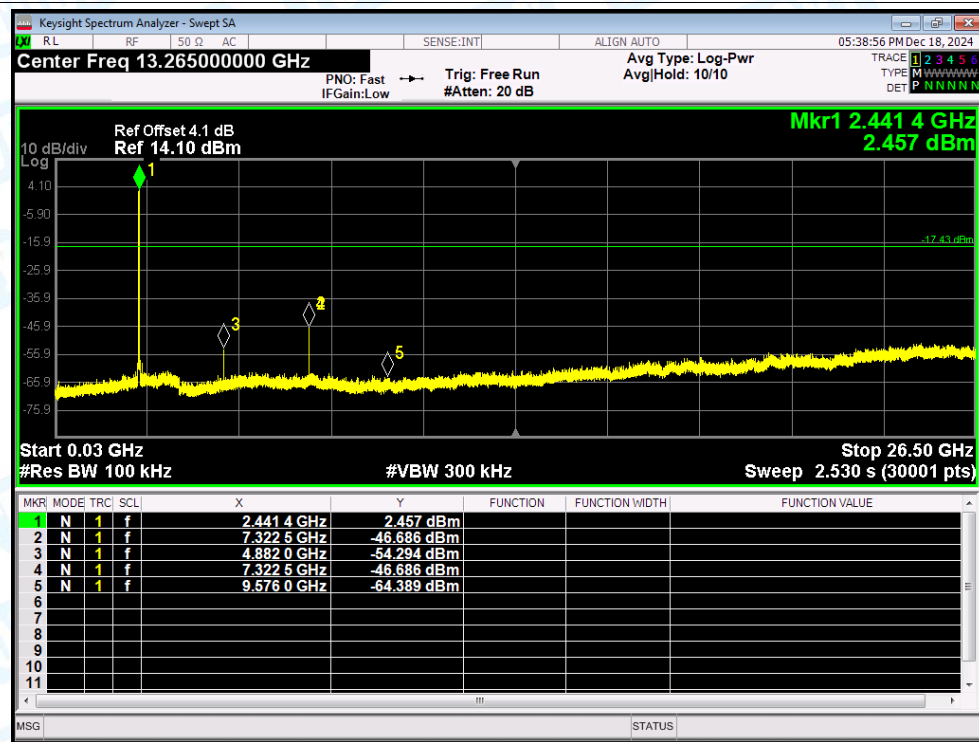
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



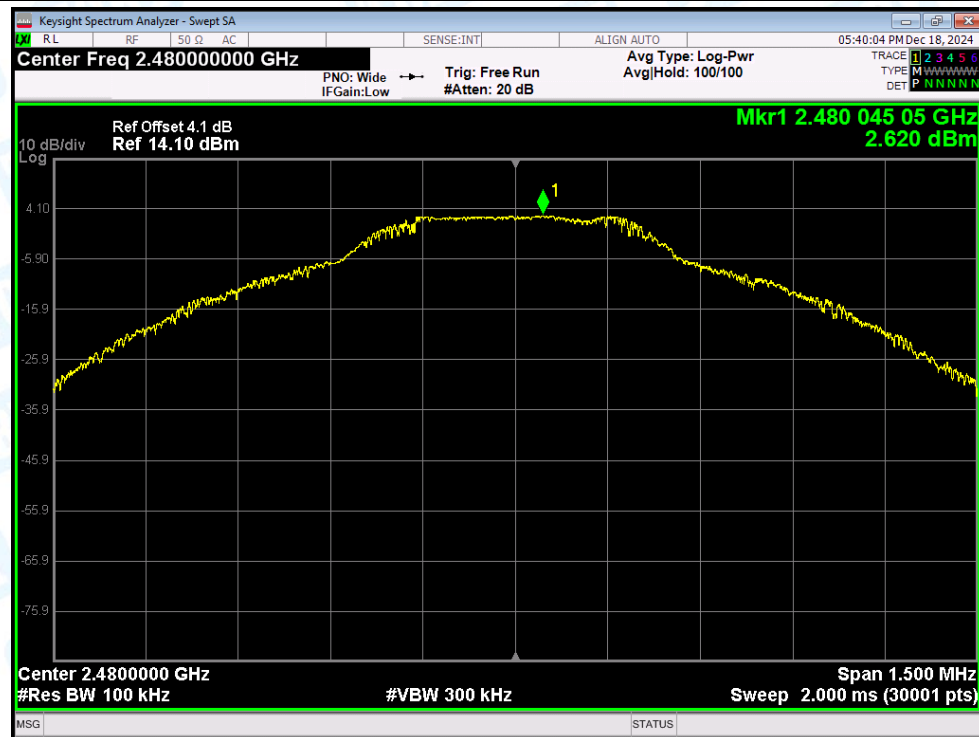
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



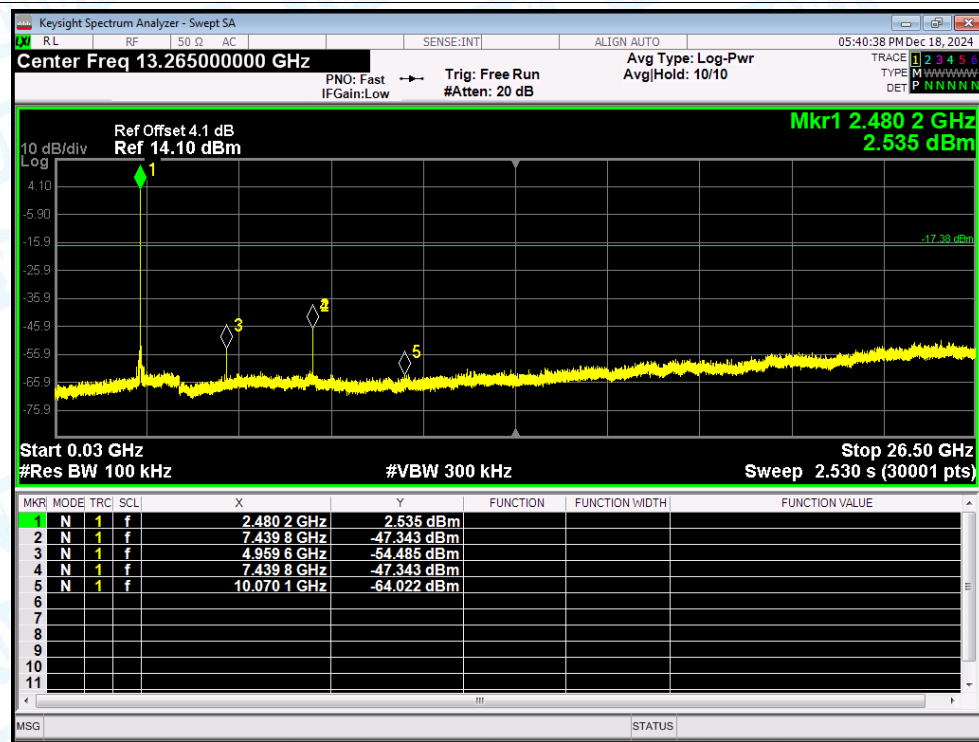
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



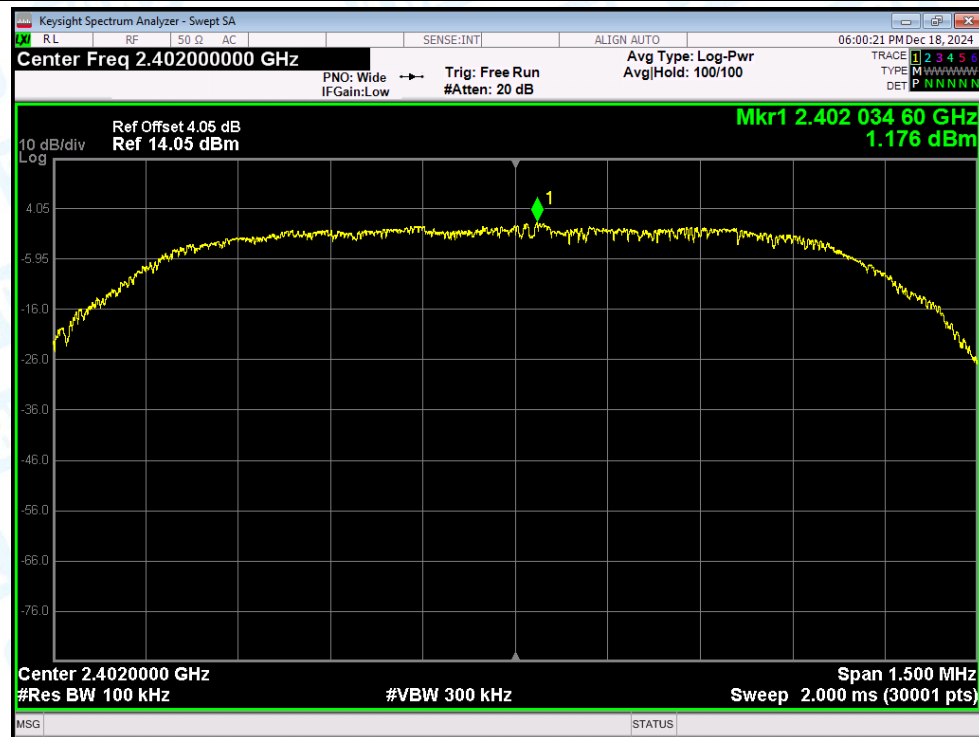
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



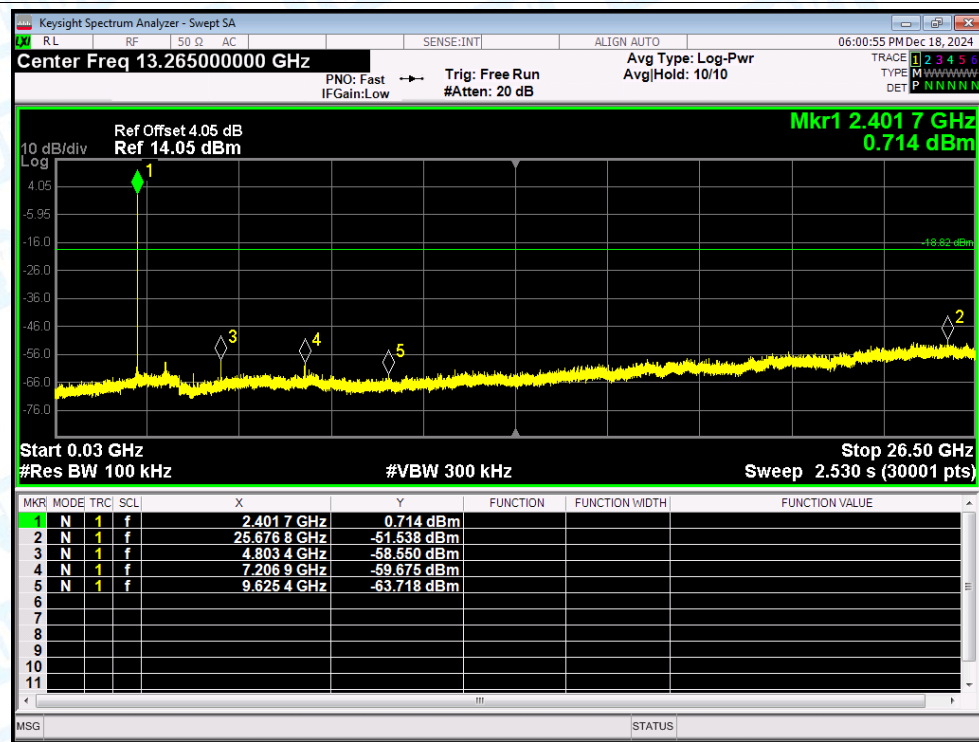
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



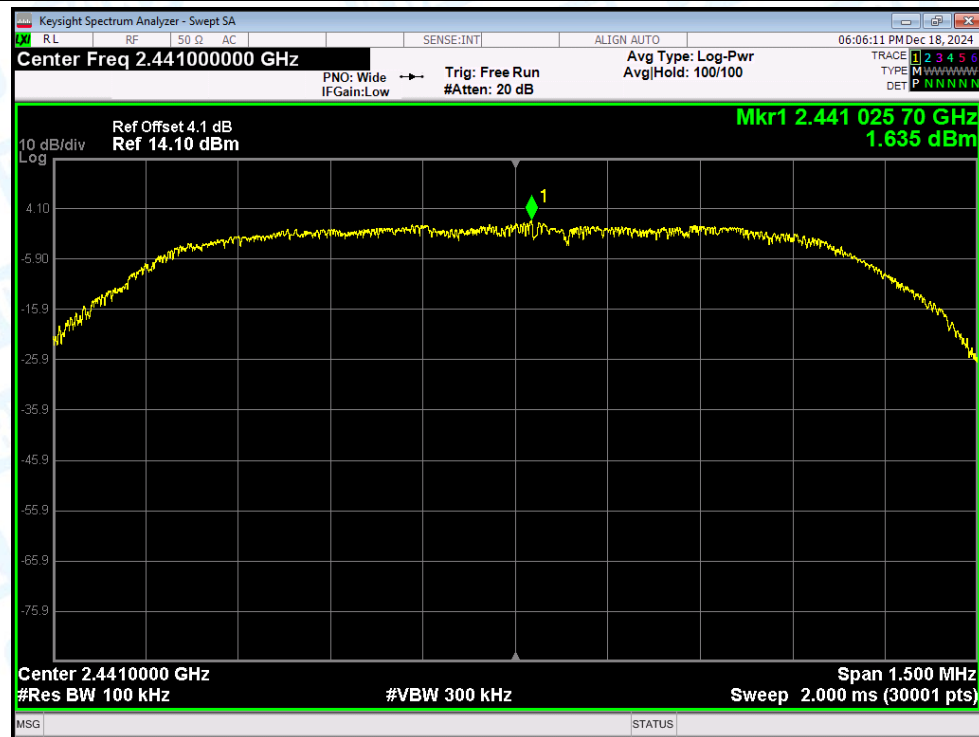
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



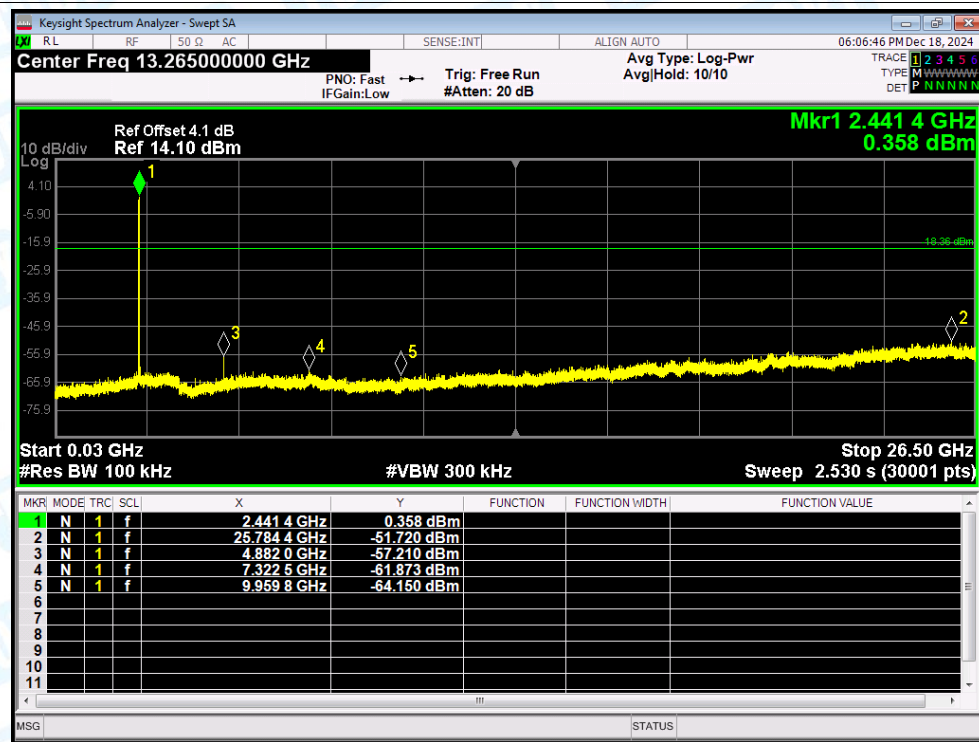
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



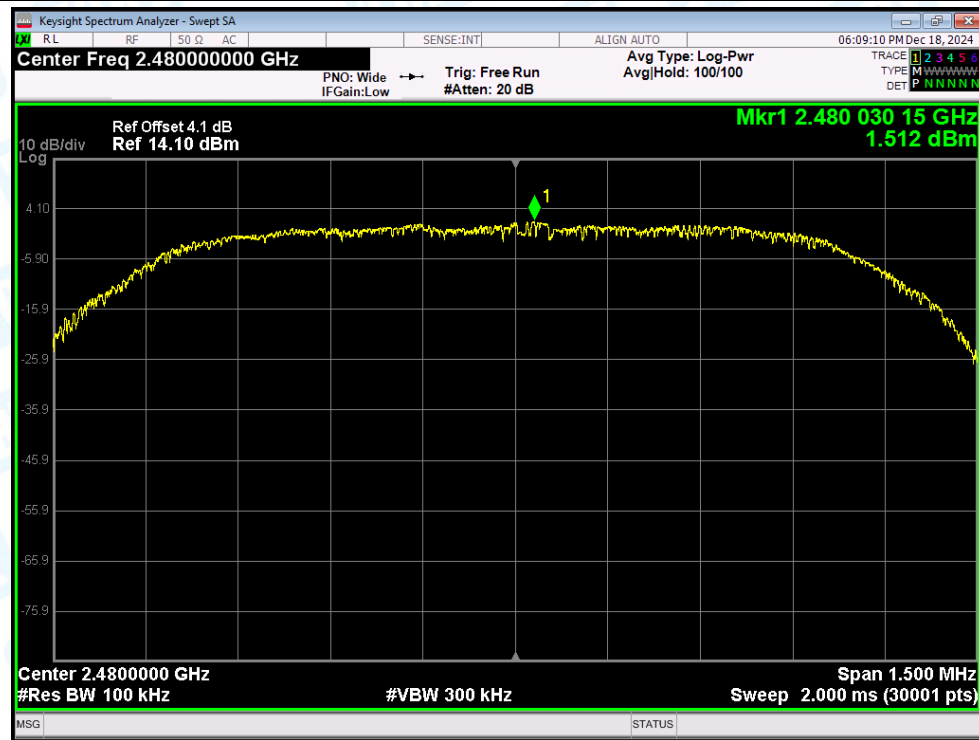
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



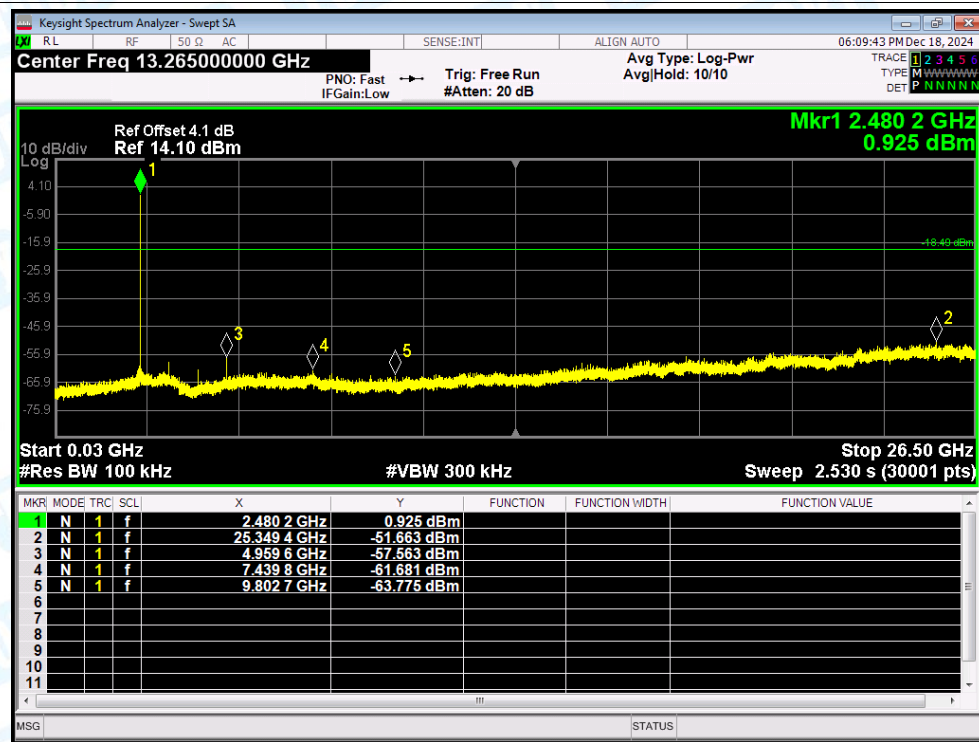
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



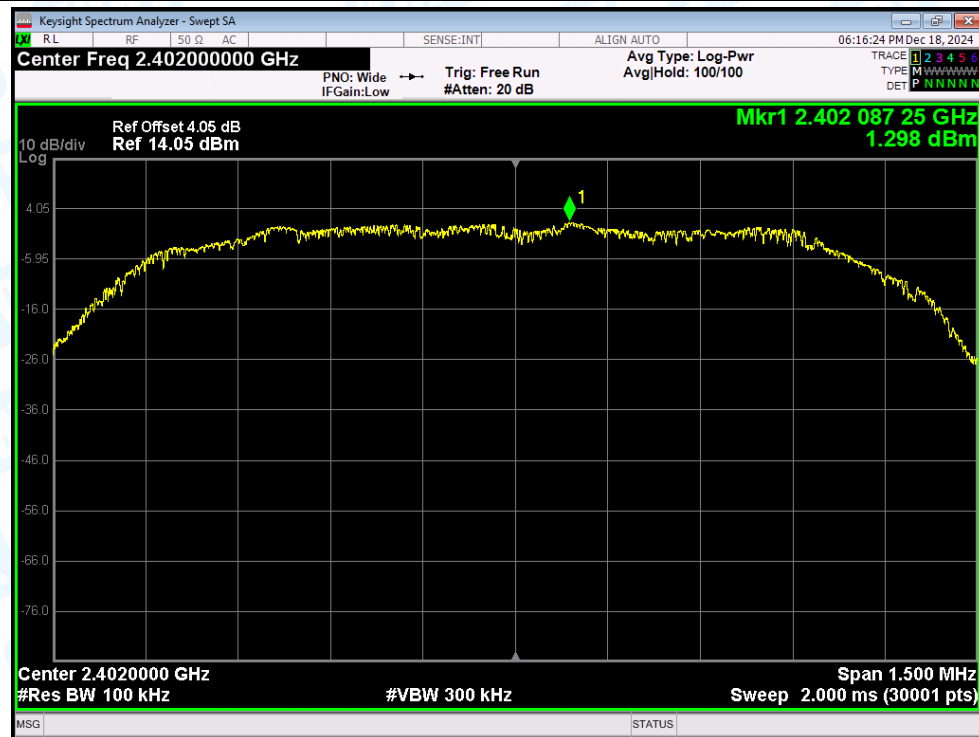
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



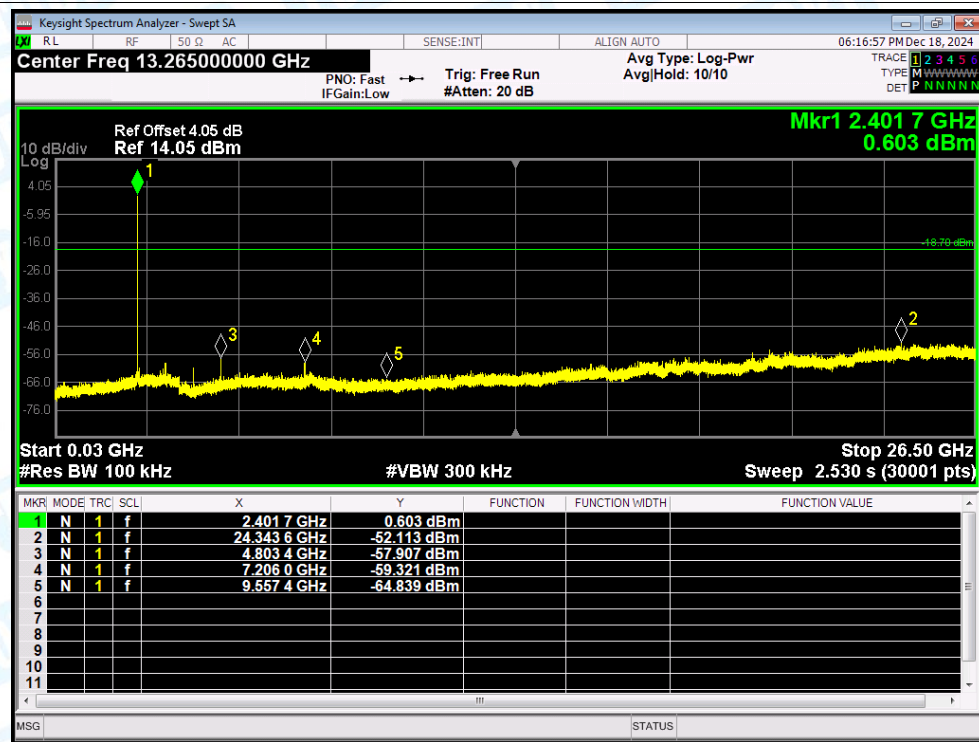
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission



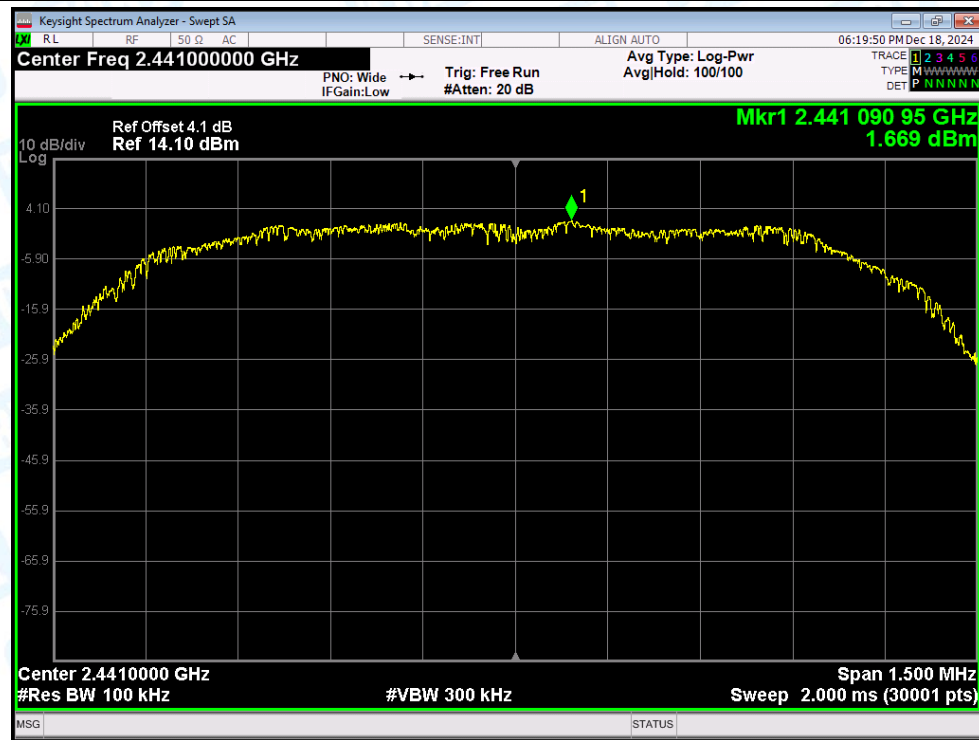
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



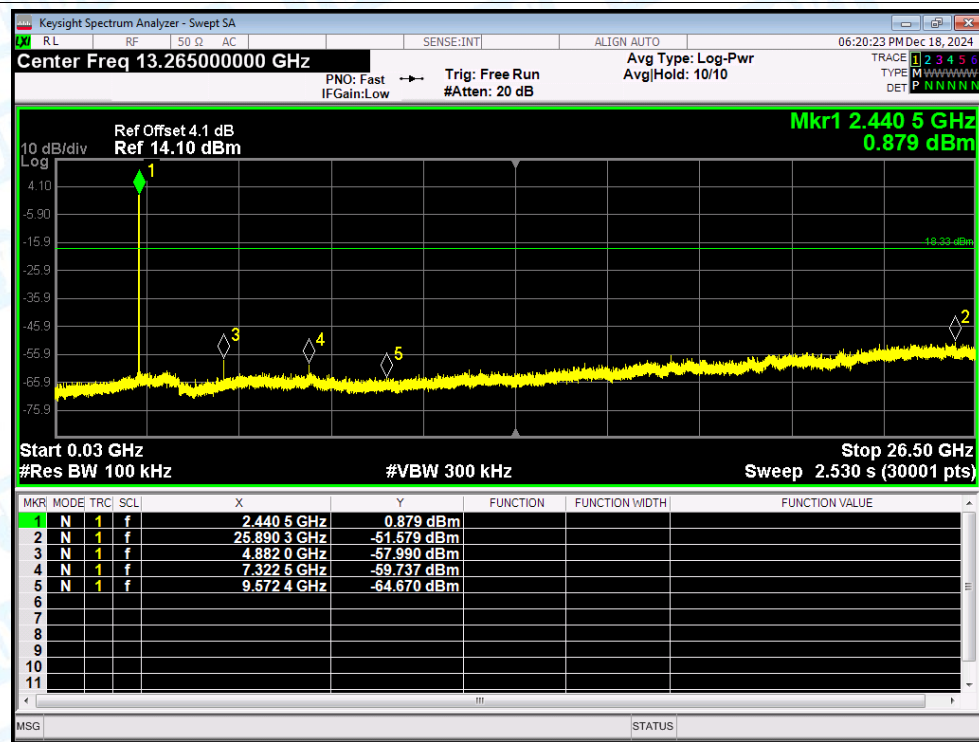
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission



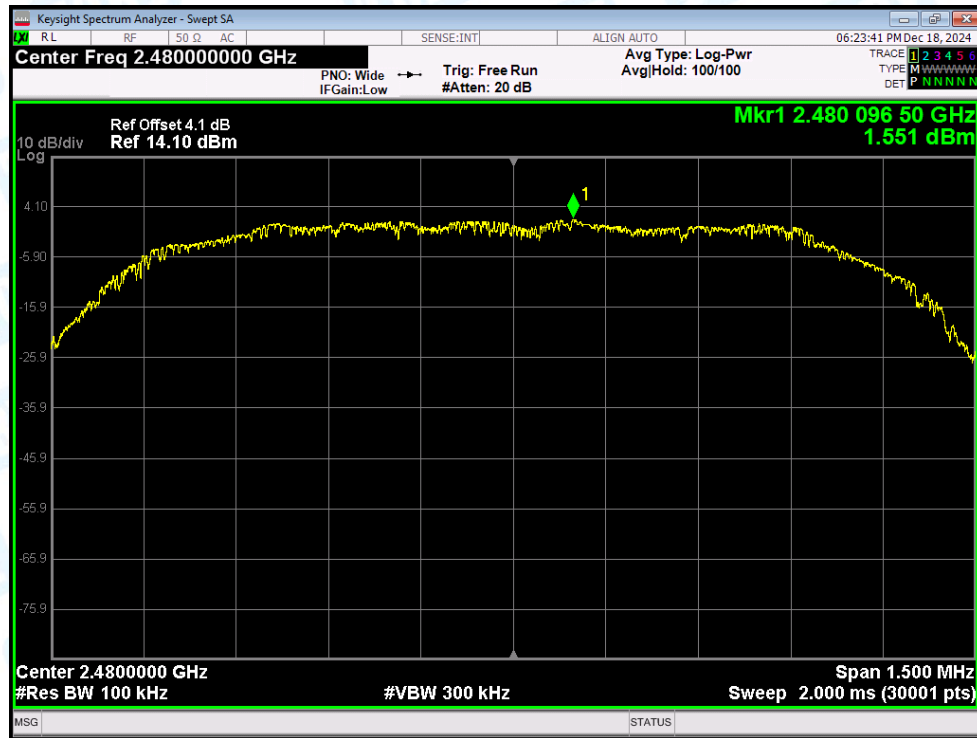
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Ref



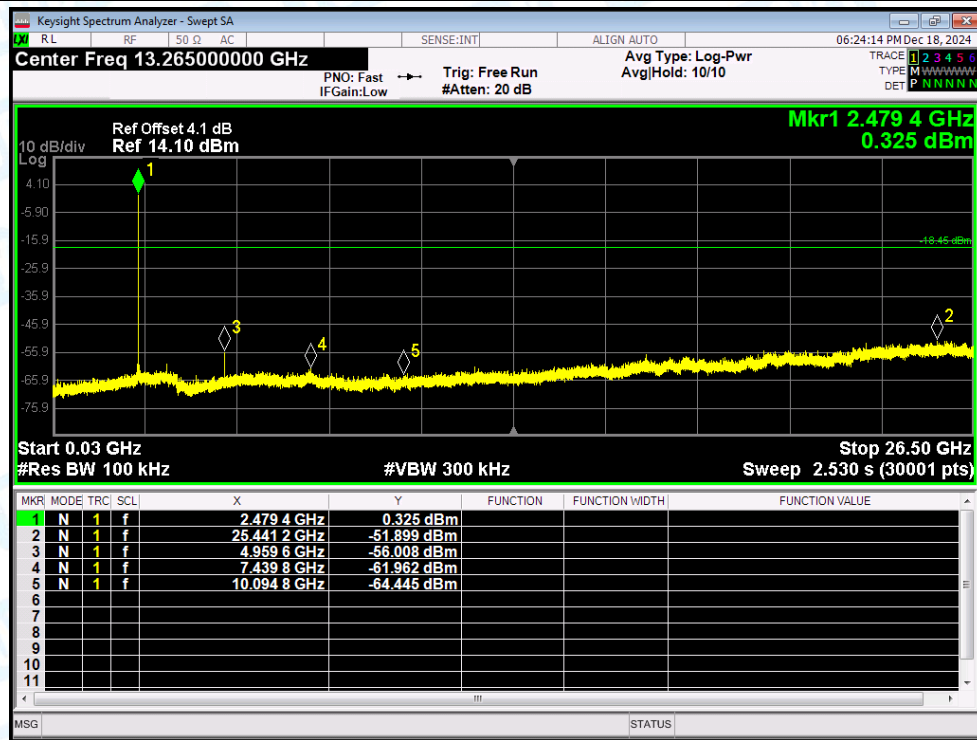
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

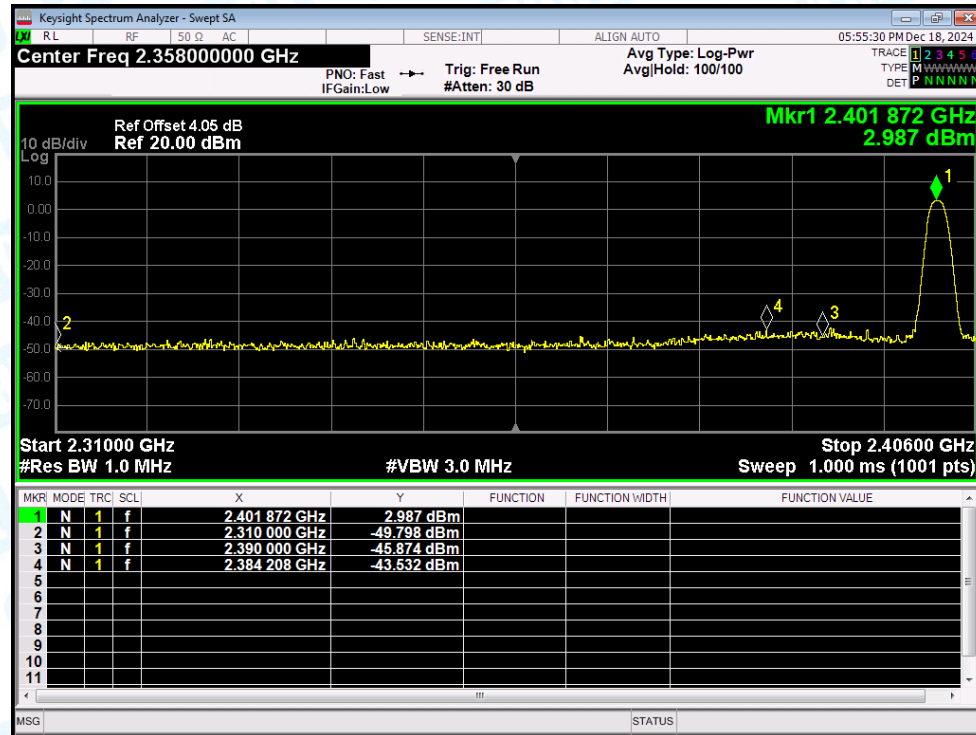


8. Restrict Band

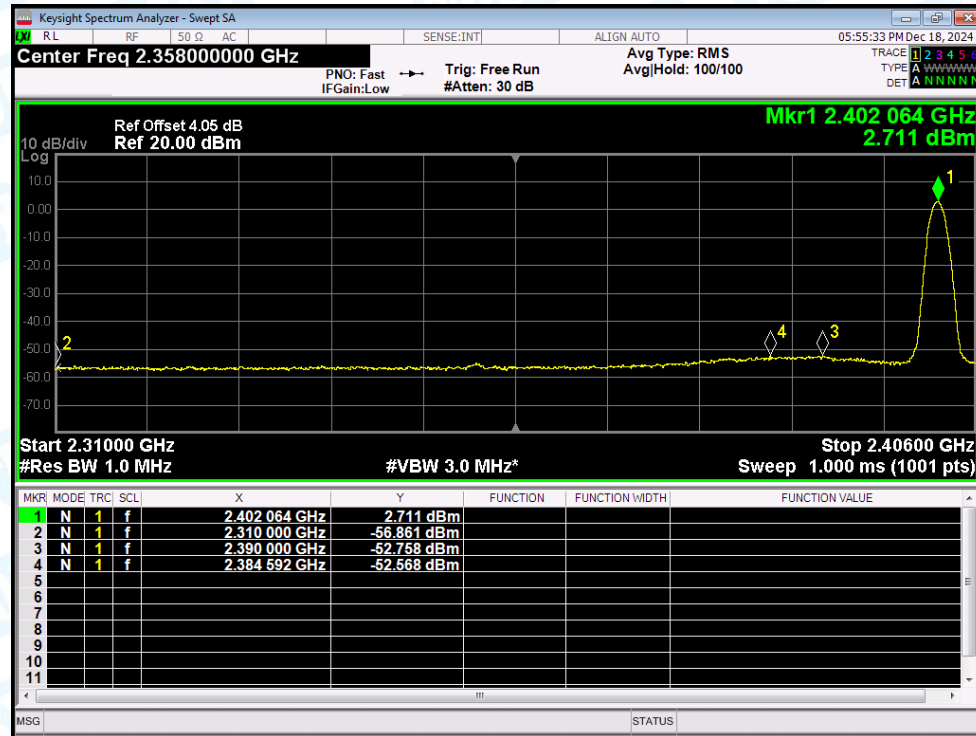
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-49.8	2.83	-	48.29	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-56.86	2.83	4.82	46.05	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2384.208	-43.53	2.83	-	54.56	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2384.592	-52.57	2.83	4.82	50.34	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-45.87	2.83	-	52.22	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-52.76	2.83	4.82	50.15	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-47.31	2.83	-	50.78	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-54.18	2.83	0	43.91	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2491.192	-41.05	2.83	-	57.04	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2492.296	-51.34	2.83	0	46.75	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-43.47	2.83	-	54.62	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-52.43	2.83	0	45.66	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-49.12	2.83	-	48.97	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-56.64	2.83	5.13	46.58	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2356.368	-45.46	2.83	-	52.63	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2379.6	-55.15	2.83	5.13	48.07	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-48.48	2.83	-	49.61	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-56.17	2.83	5.13	47.05	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-46.81	2.83	-	51.28	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-54.48	2.83	5.17	48.78	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2484.376	-44.68	2.83	-	53.41	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.536	-53.87	2.83	5.17	49.39	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-48.07	2.83	-	50.02	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-55.78	2.83	5.17	47.48	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-48.79	2.83	-	49.3	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-57.18	2.83	5.06	45.97	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2377.296	-45.86	2.83	-	52.23	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2380.08	-54.74	2.83	5.06	48.41	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-48.03	2.83	-	50.06	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-56.39	2.83	5.06	46.76	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-46.18	2.83	-	51.91	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-54.22	2.83	5.06	48.93	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2499.688	-43.65	2.83	-	54.44	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2484.808	-54.14	2.83	5.06	49.01	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-48.32	2.83	-	49.77	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-55.68	2.83	5.06	47.47	Average	54	Pass

Test Graphs

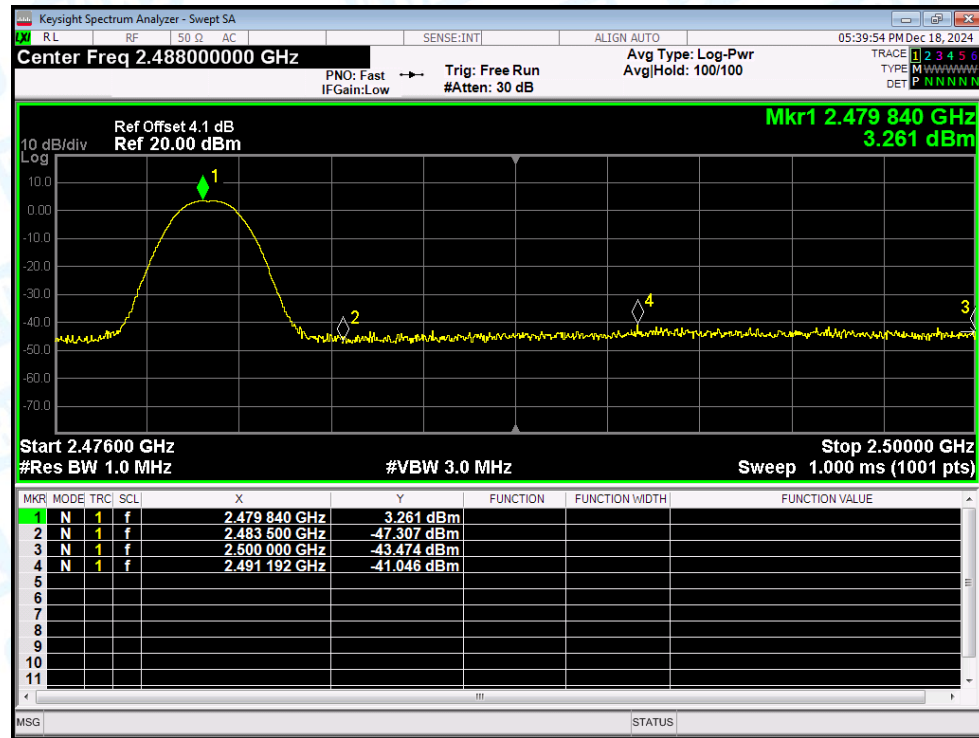
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



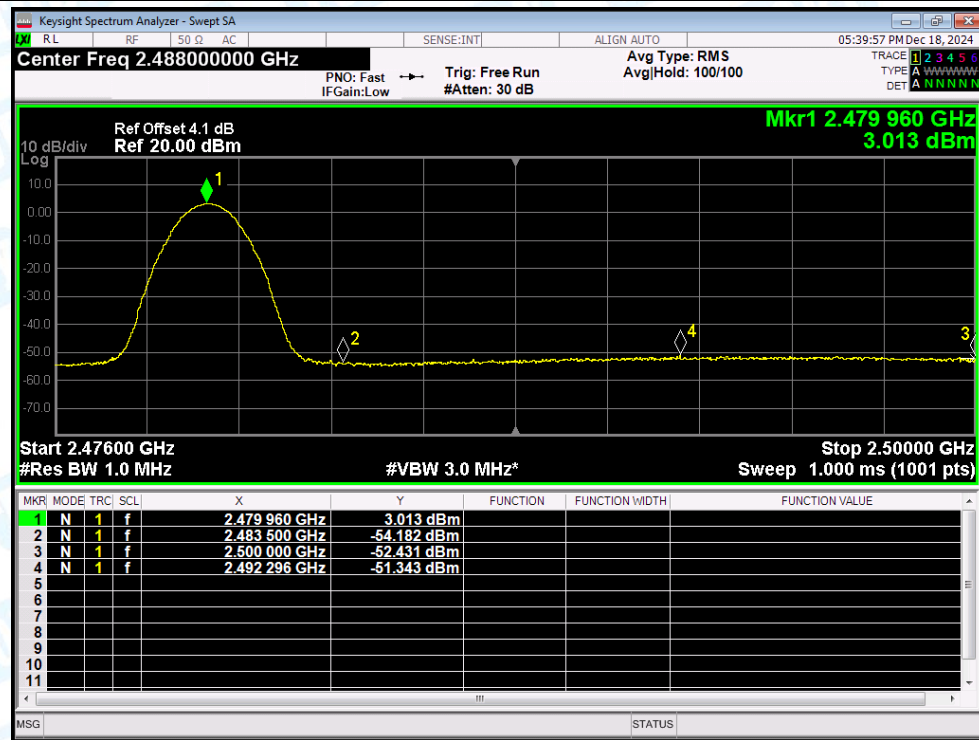
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



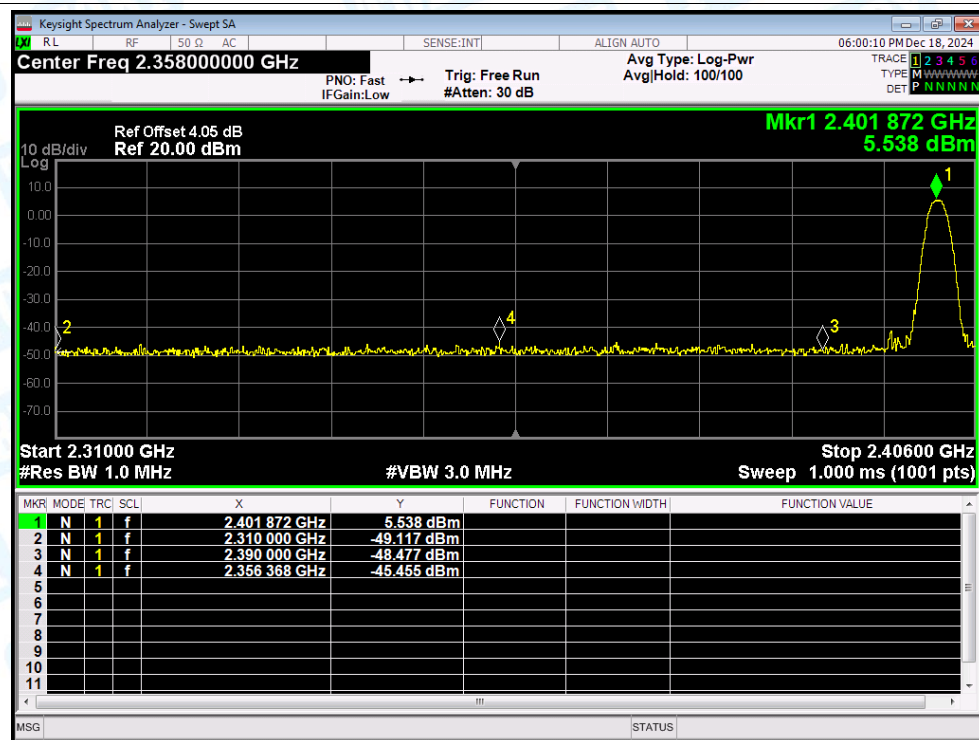
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



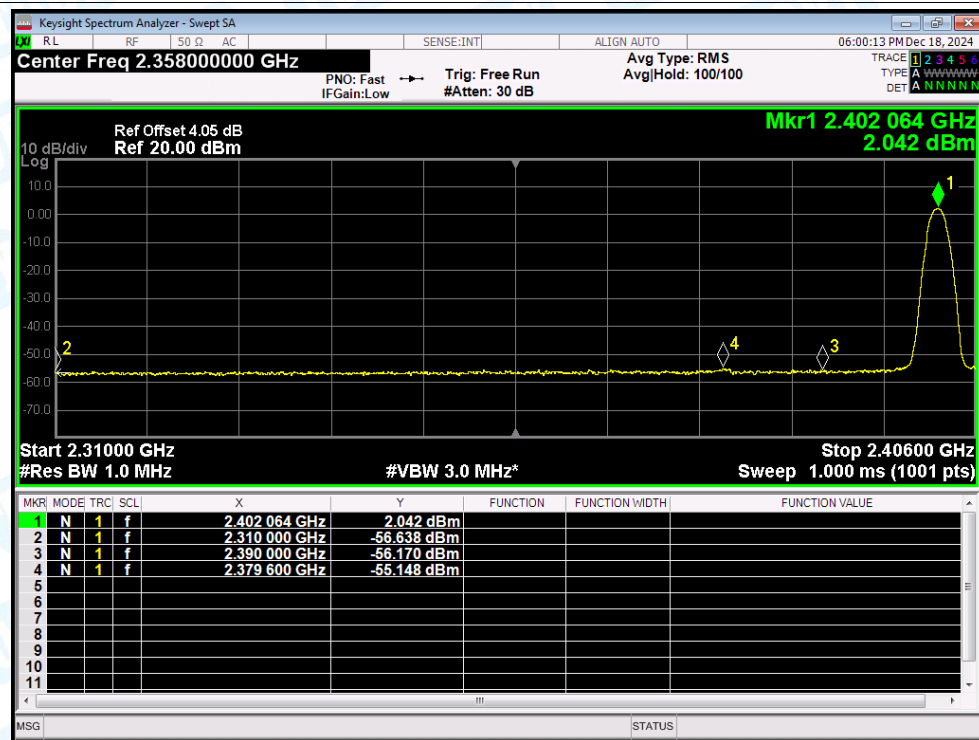
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



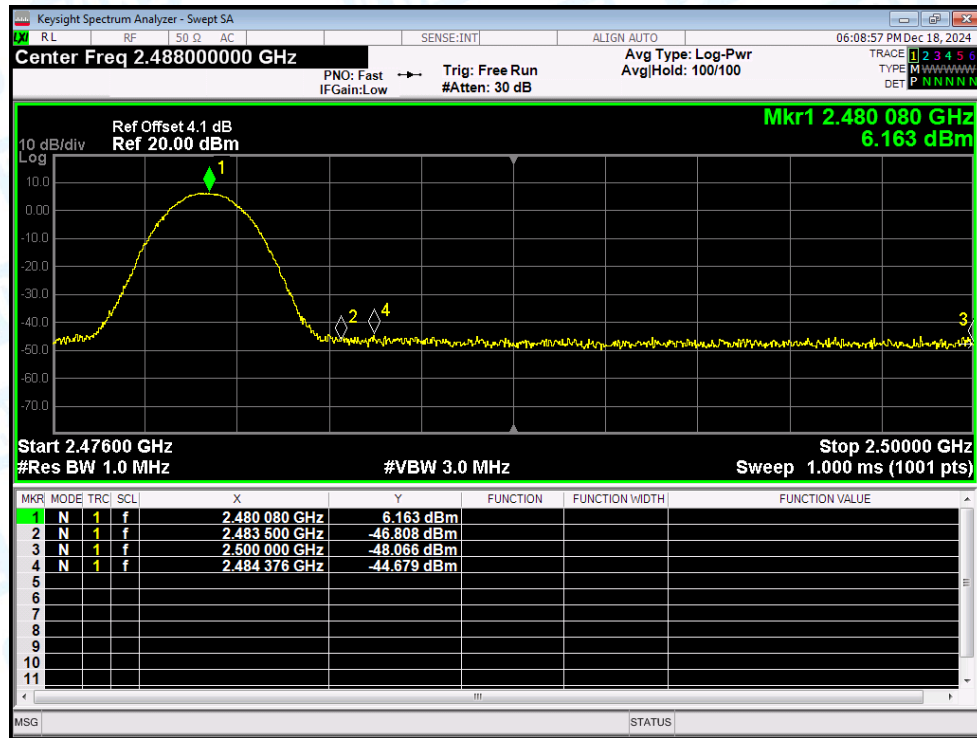
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



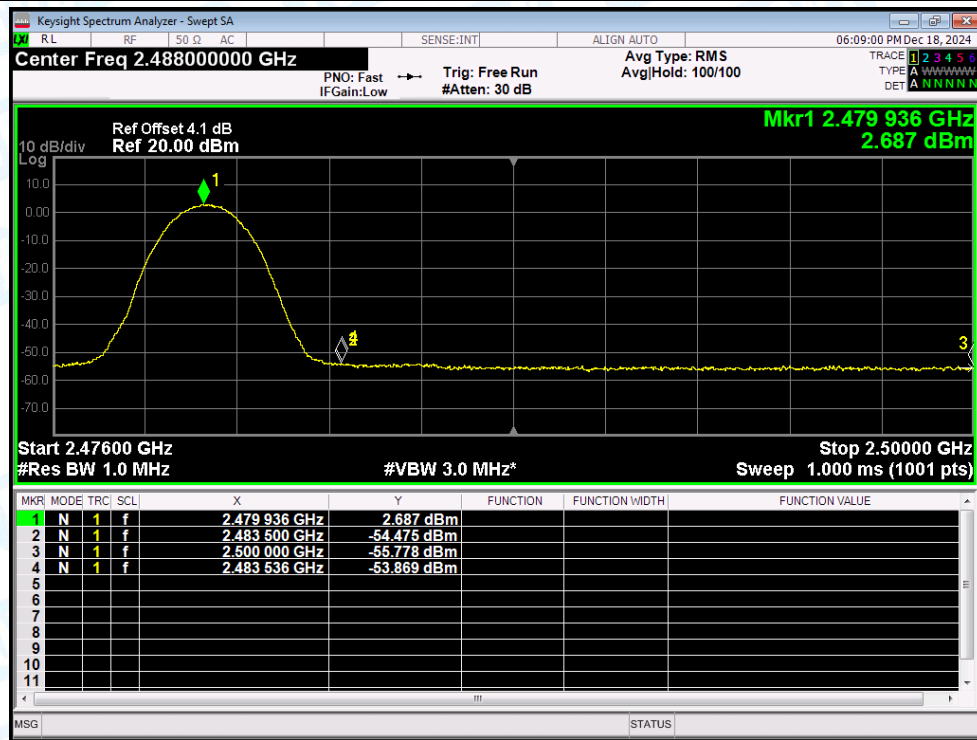
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Average



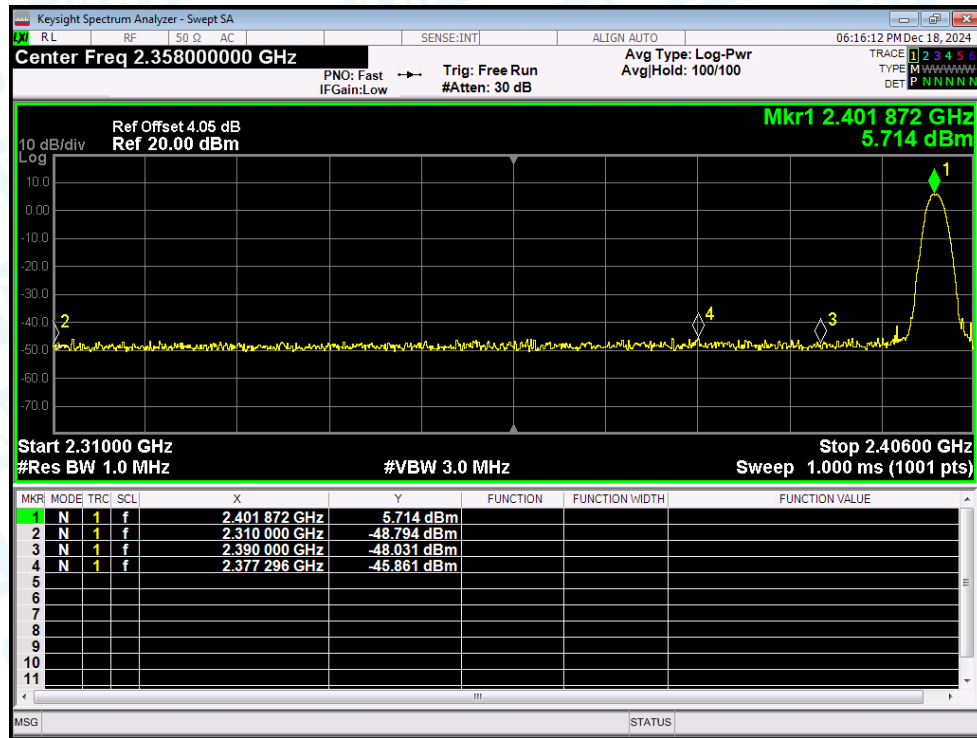
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak



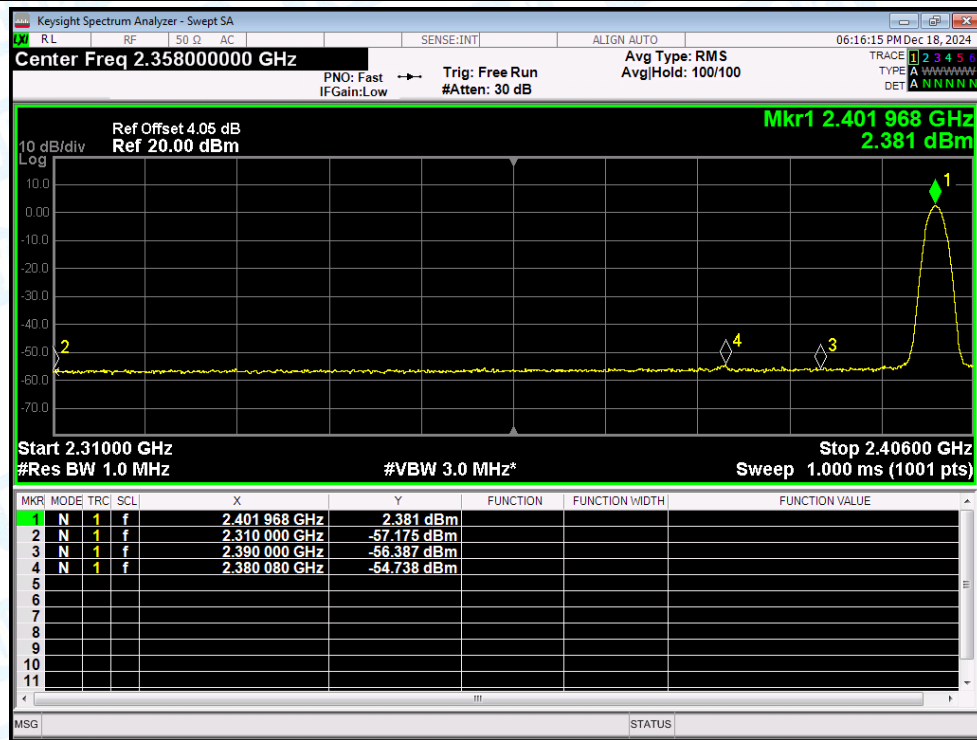
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Average



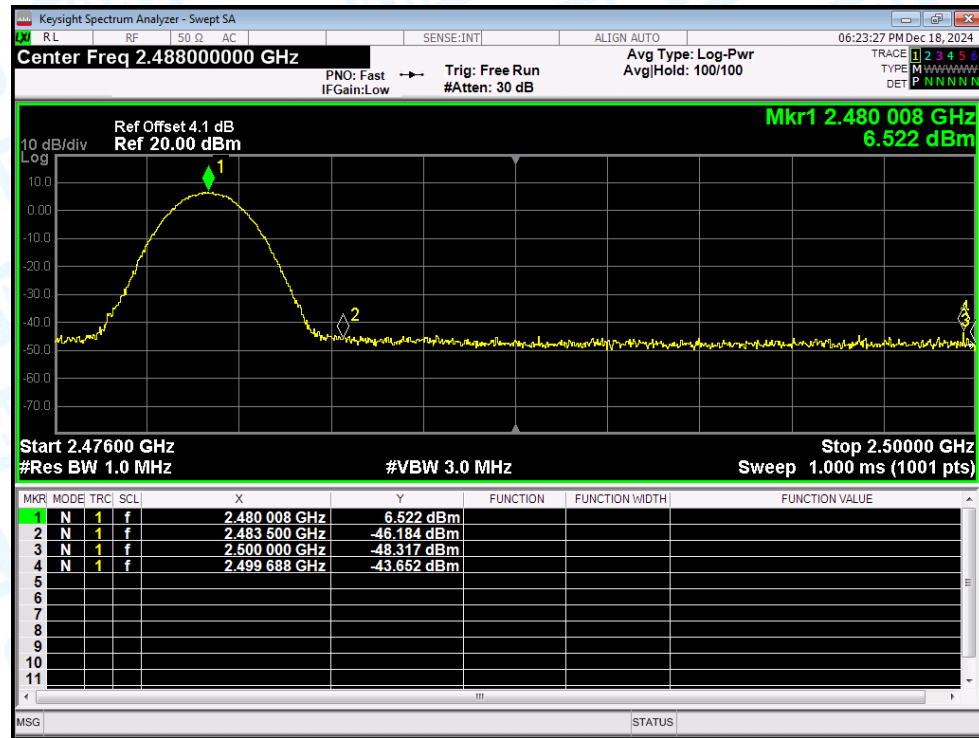
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Peak



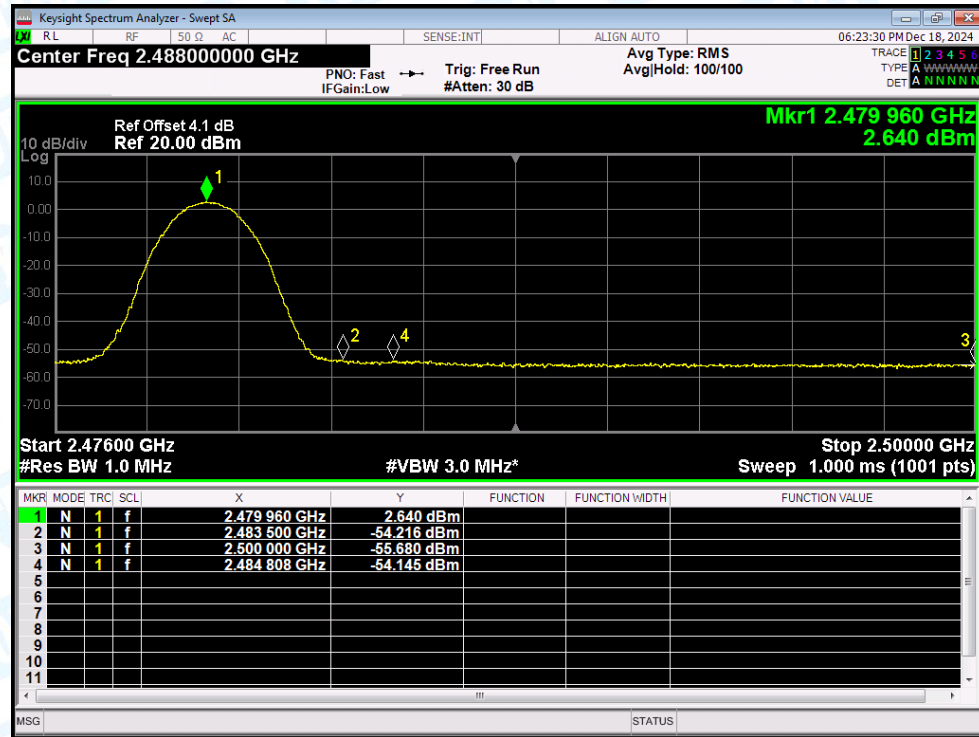
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Average



Restrict Band NVNT 3-DH1 2480MHz Ant1 No-Hopping Peak



Restrict Band NVNT 3-DH1 2480MHz Ant1 No-Hopping Average

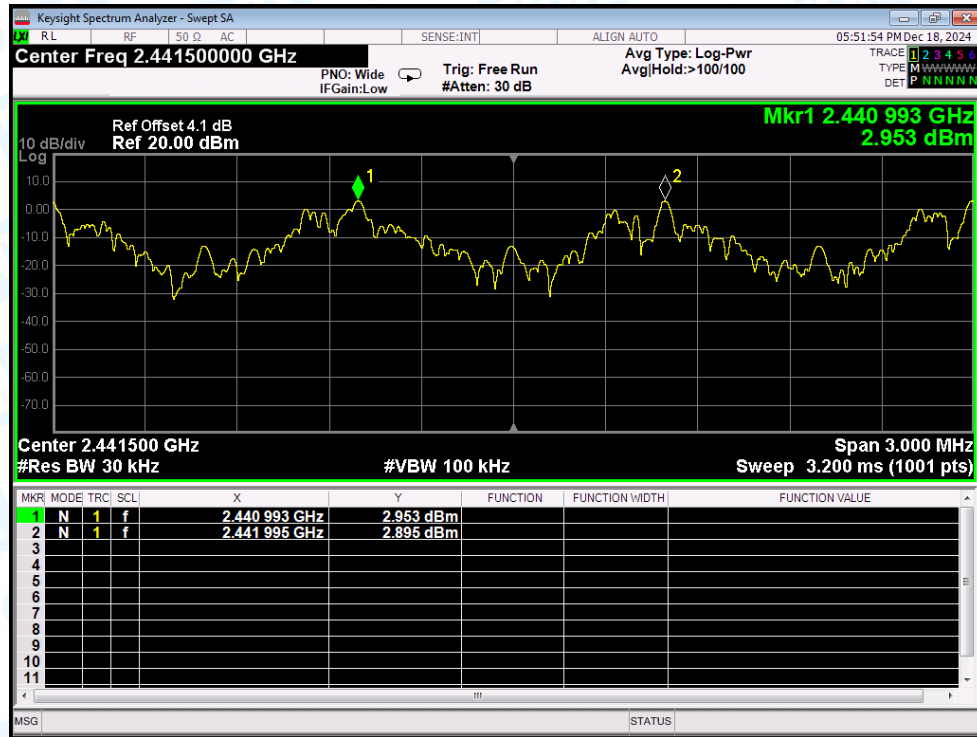


9. Carrier Frequencies Separation

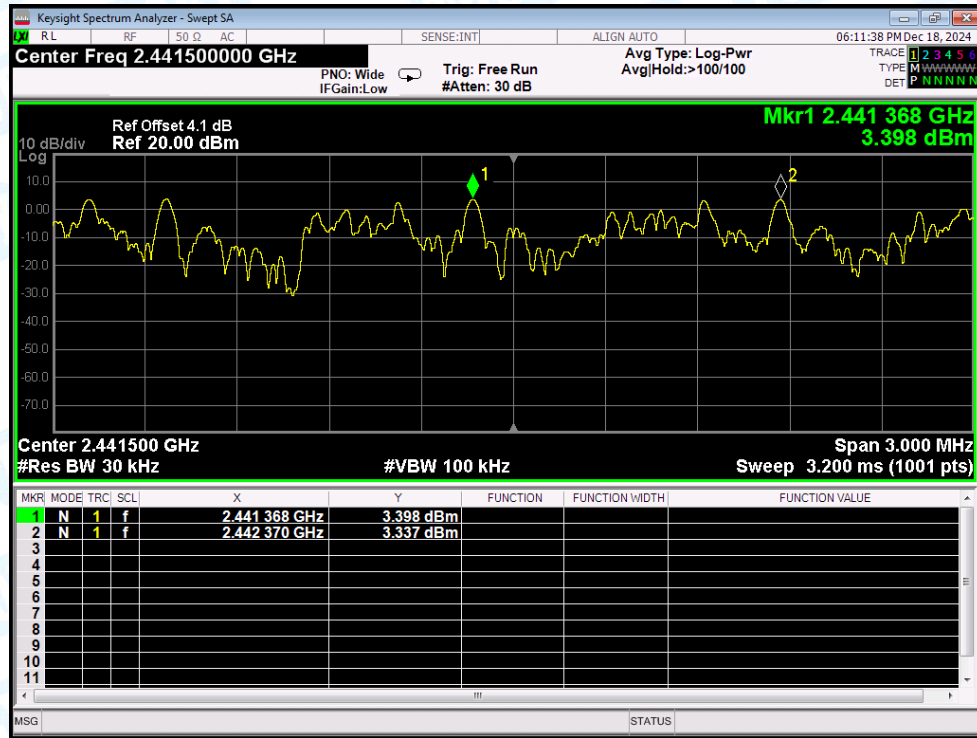
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2440.993	2441.995	1.002	0.025	Pass
NVNT	2-DH1	Ant1	2441.368	2442.37	1.002	0.907	Pass
NVNT	3-DH1	Ant1	2440.996	2441.995	0.999	0.9	Pass

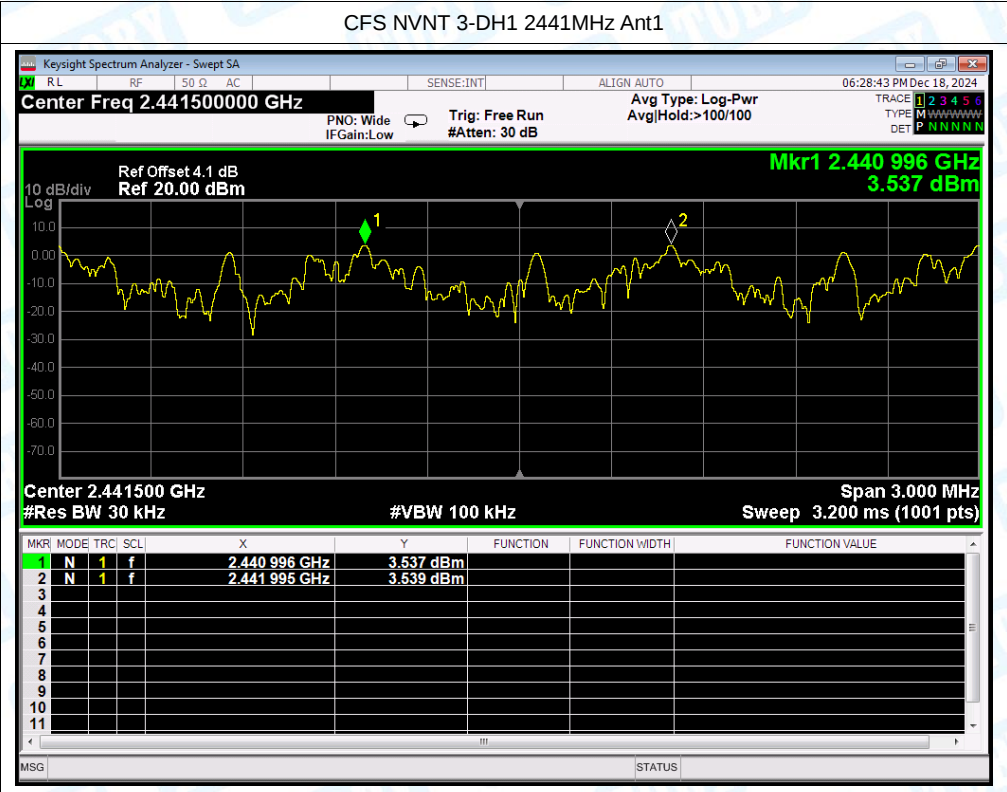
Test Graphs

CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1



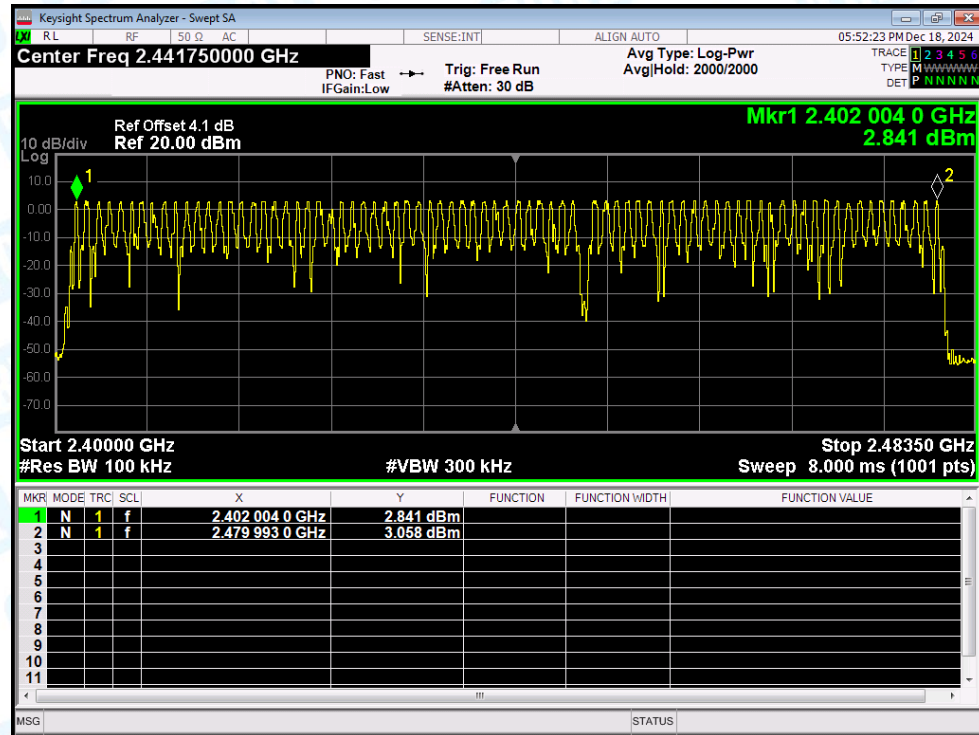


10. Number of Hopping Channel

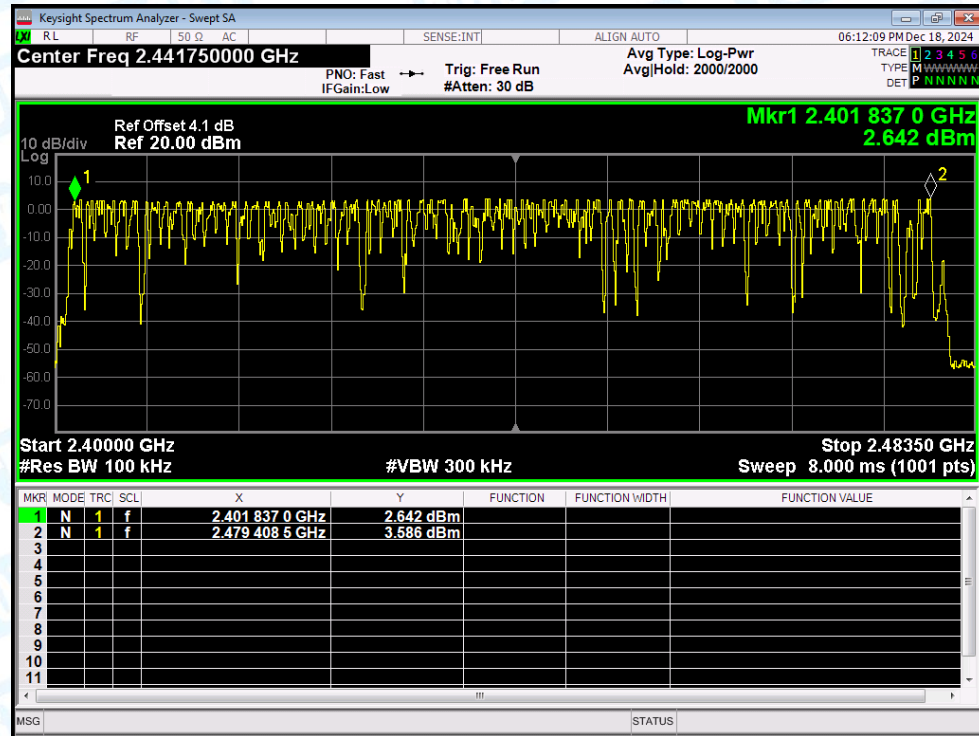
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

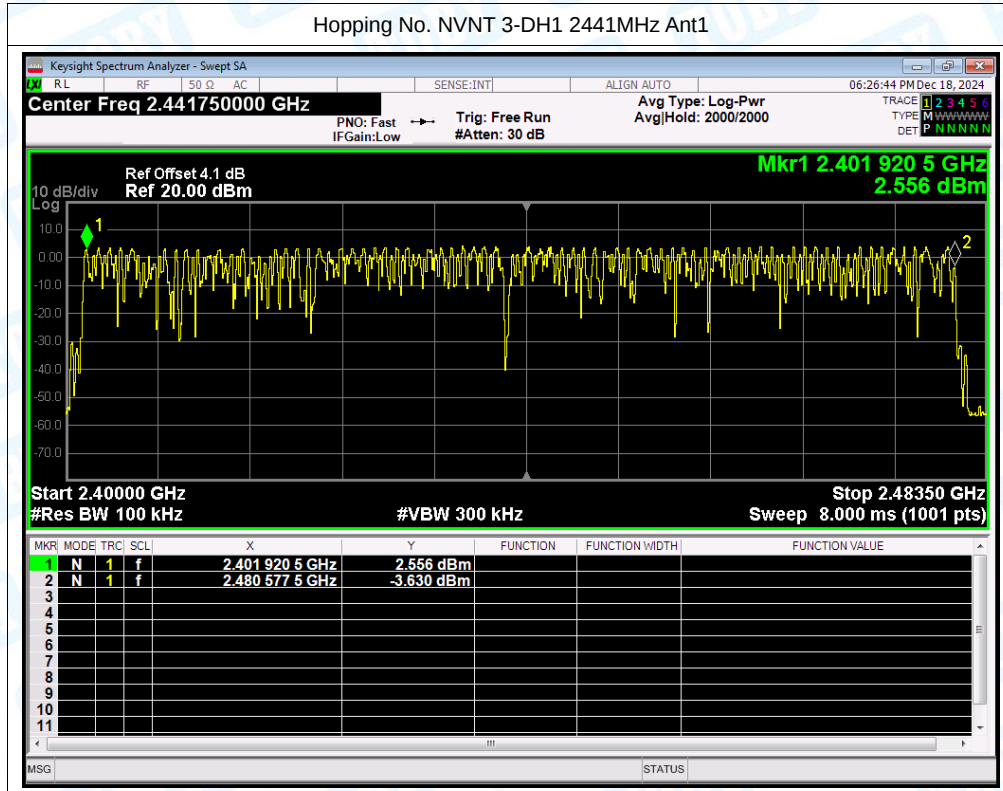
Test Graphs

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1



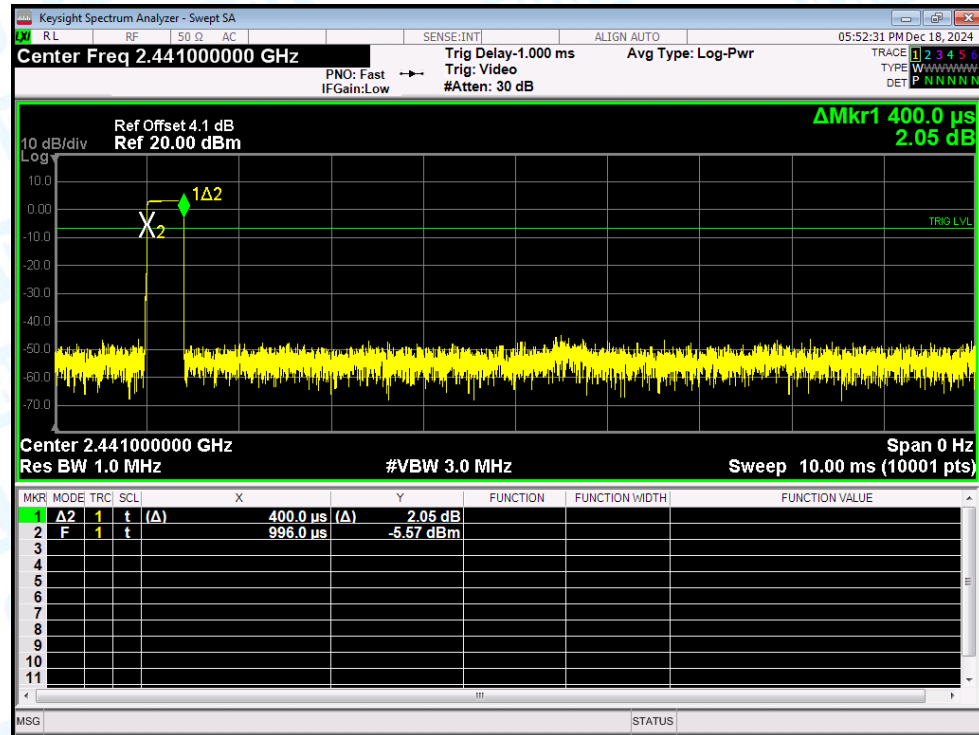


11. Dwell Time

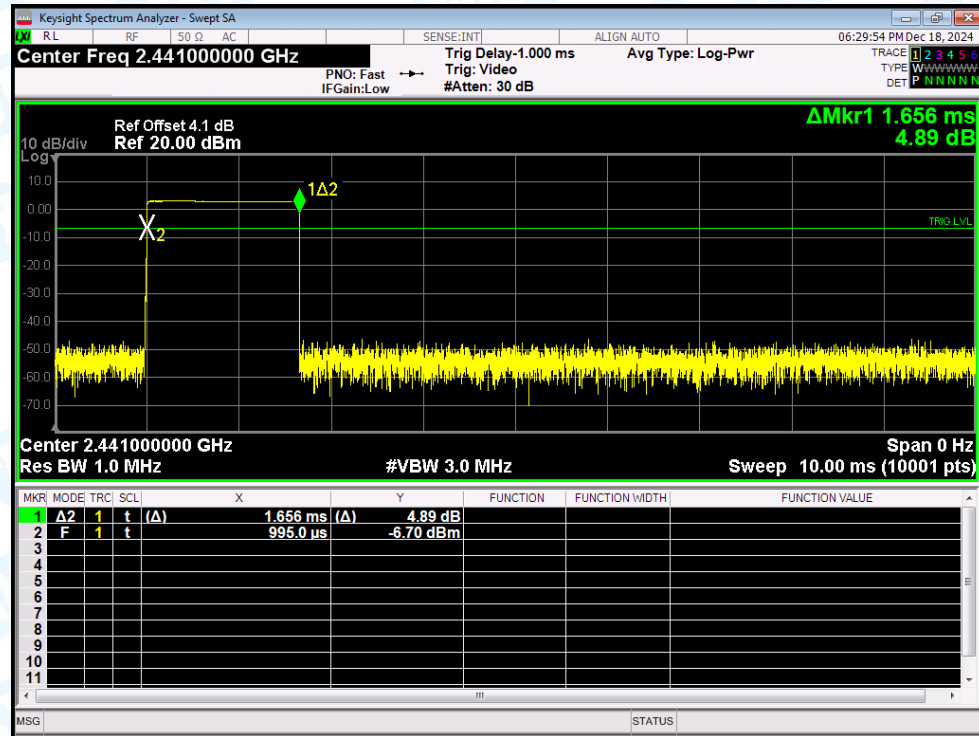
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.4	128	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.656	264.96	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.903	309.653	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.381	121.92	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.633	261.28	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.881	307.307	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.381	121.92	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.632	261.12	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.882	307.413	31600	400	Pass

Test Graphs

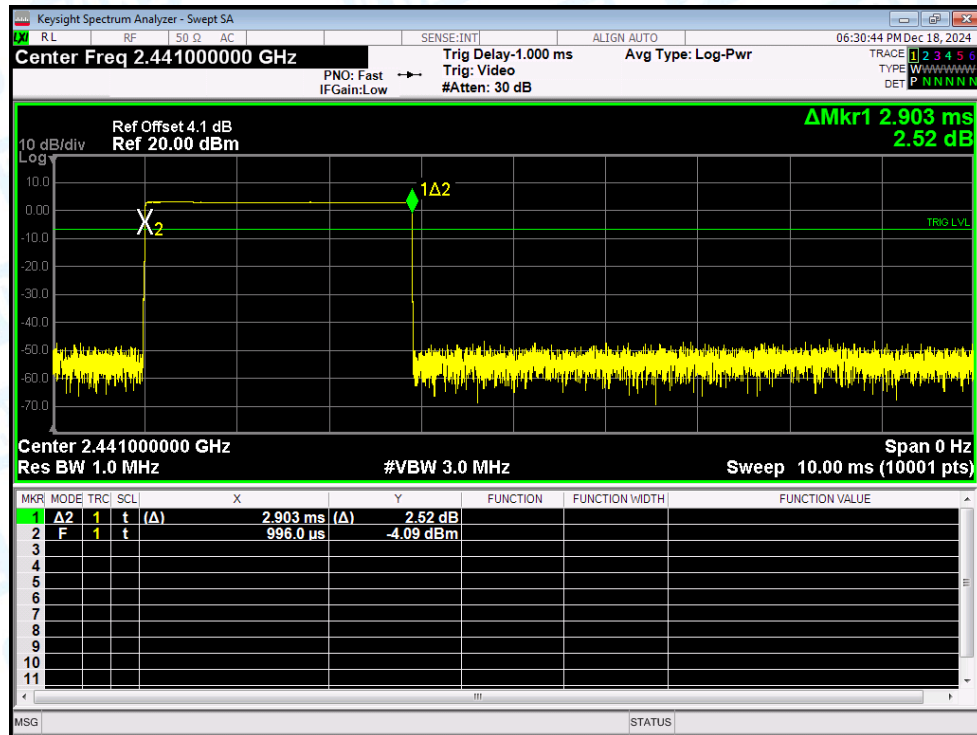
Dwell NVNT 1-DH1 2441MHz Ant1



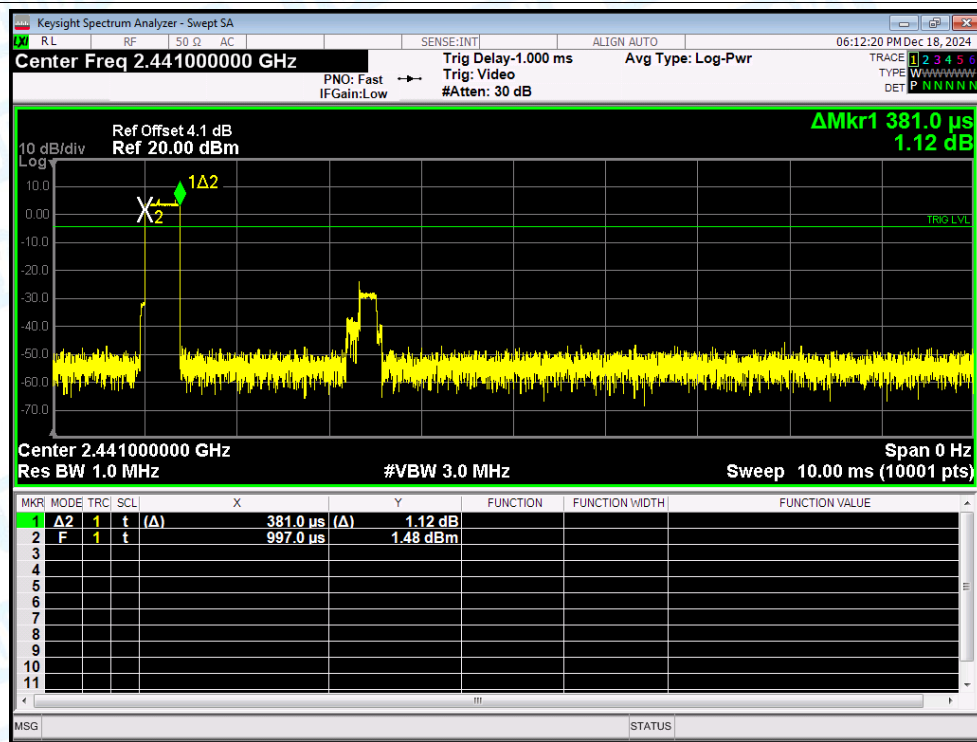
Dwell NVNT 1-DH3 2441MHz Ant1



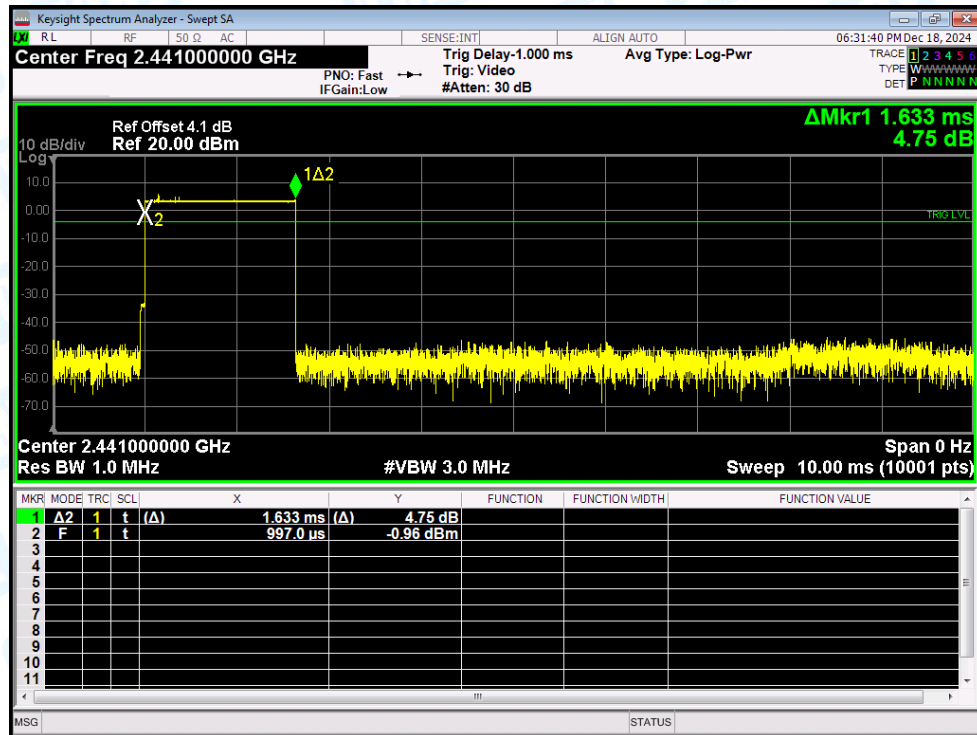
Dwell NVNT 1-DH5 2441MHz Ant1



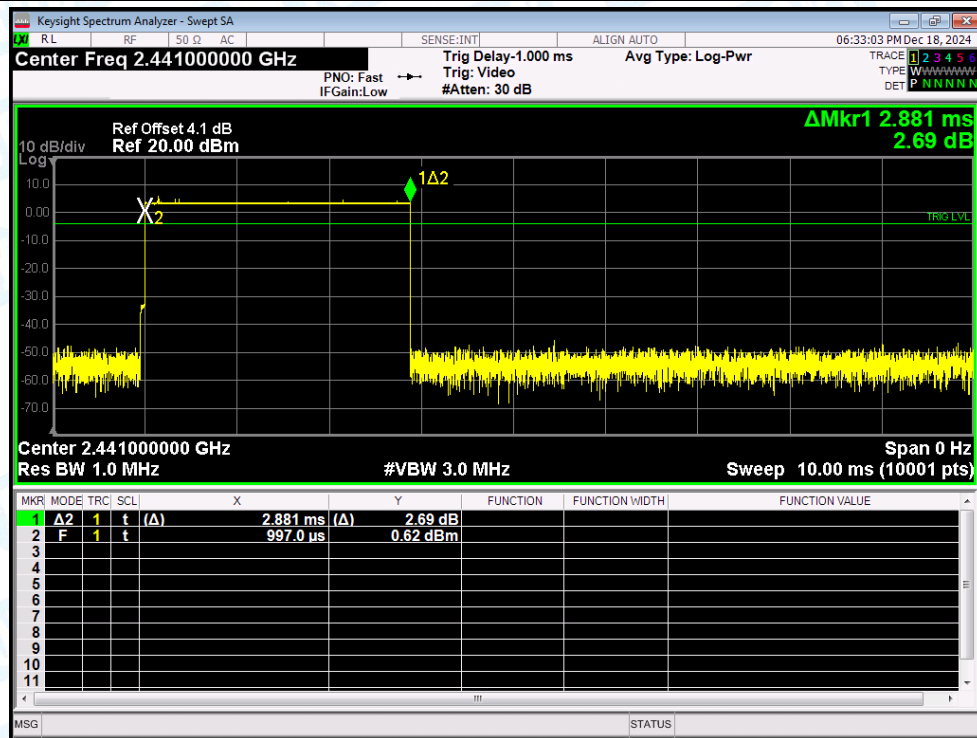
Dwell NVNT 2-DH1 2441MHz Ant1



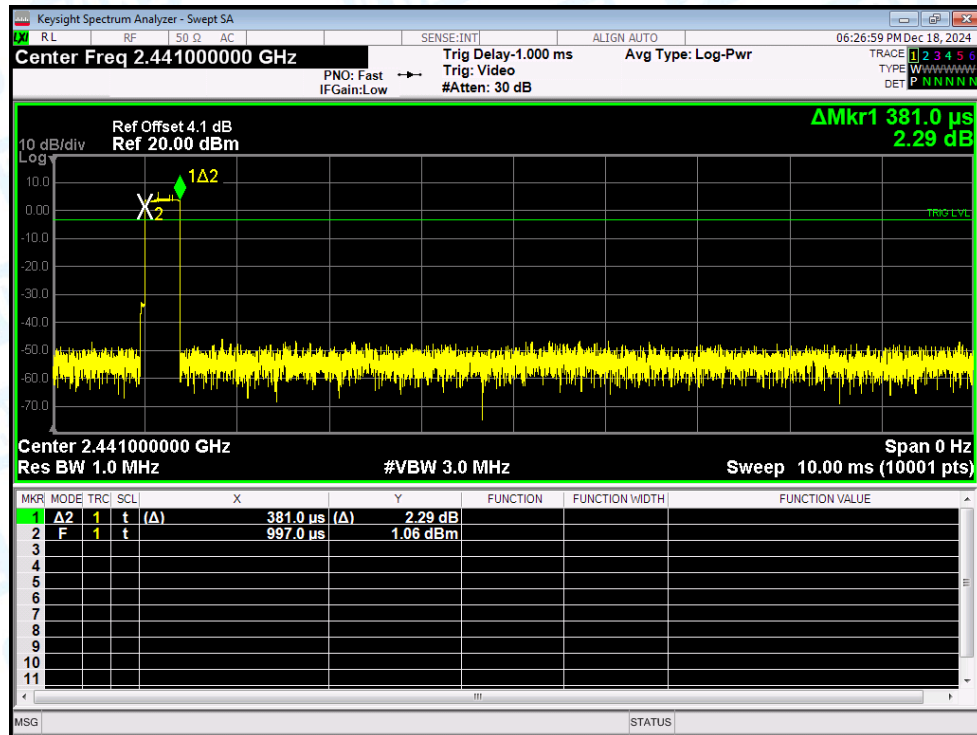
Dwell NVNT 2-DH3 2441MHz Ant1



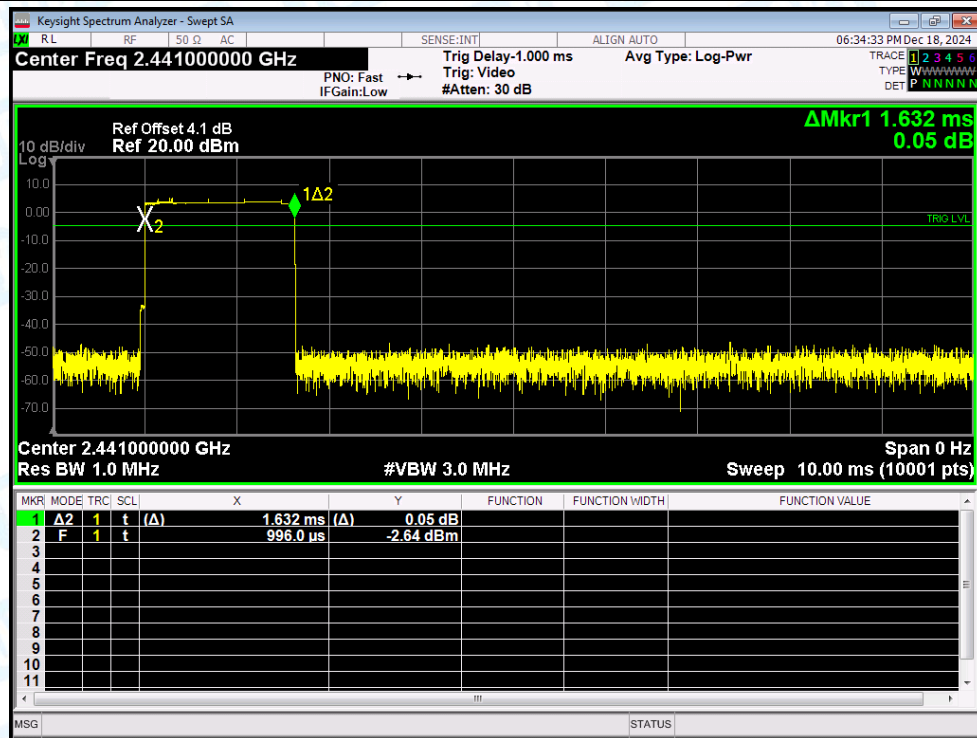
Dwell NVNT 2-DH5 2441MHz Ant1

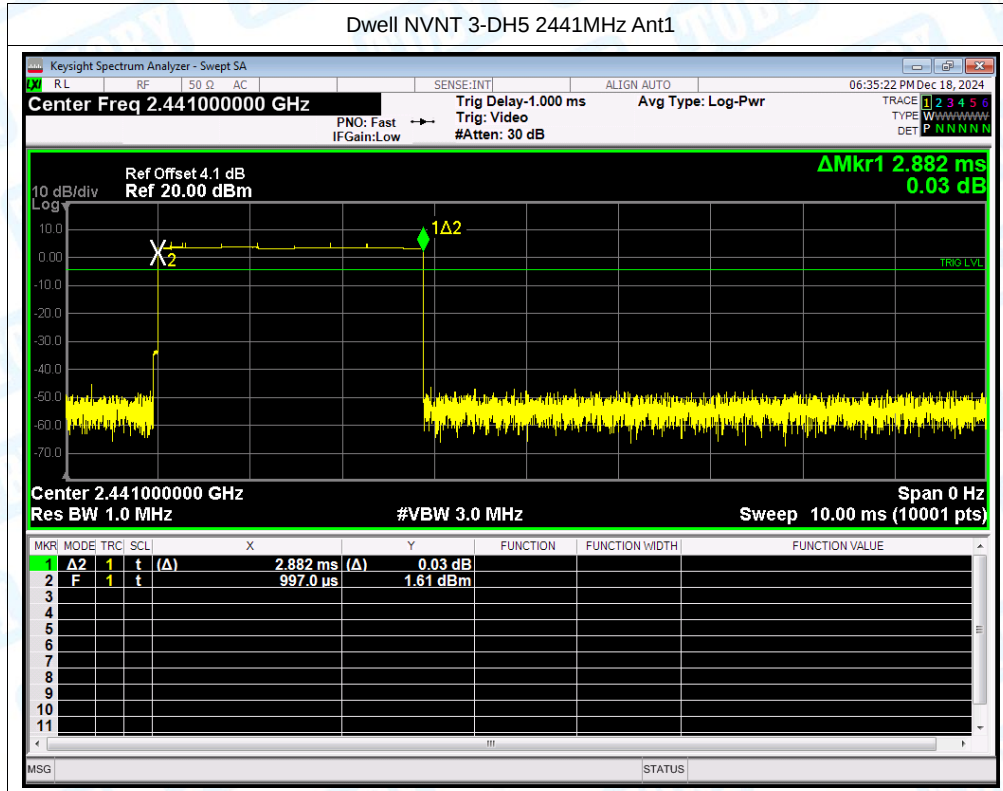


Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1





-----END OF THE REPORT-----