

RF Test Data for Bluetooth(BDR+EDR) (Conducted Measurements)

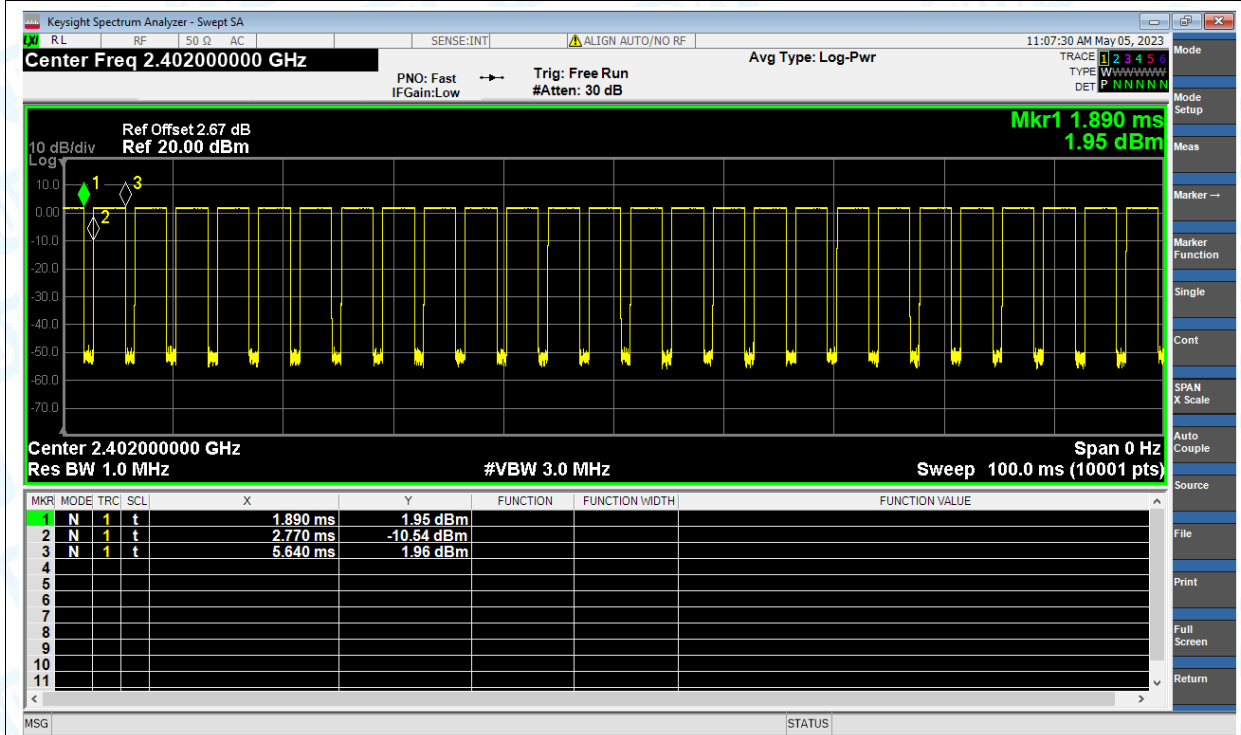
General Description of EUT	
Product Name:	Jazzman
Test Model:	JZB3B2W
Sample ID:	202303-0176-1-2#
Environmental Conditions	
Temperature:	24°C
Relative Humidity:	56%
Test Voltage:	DC 3.7V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202303-0176-3 The report only show the worst case data	

Duty Cycle

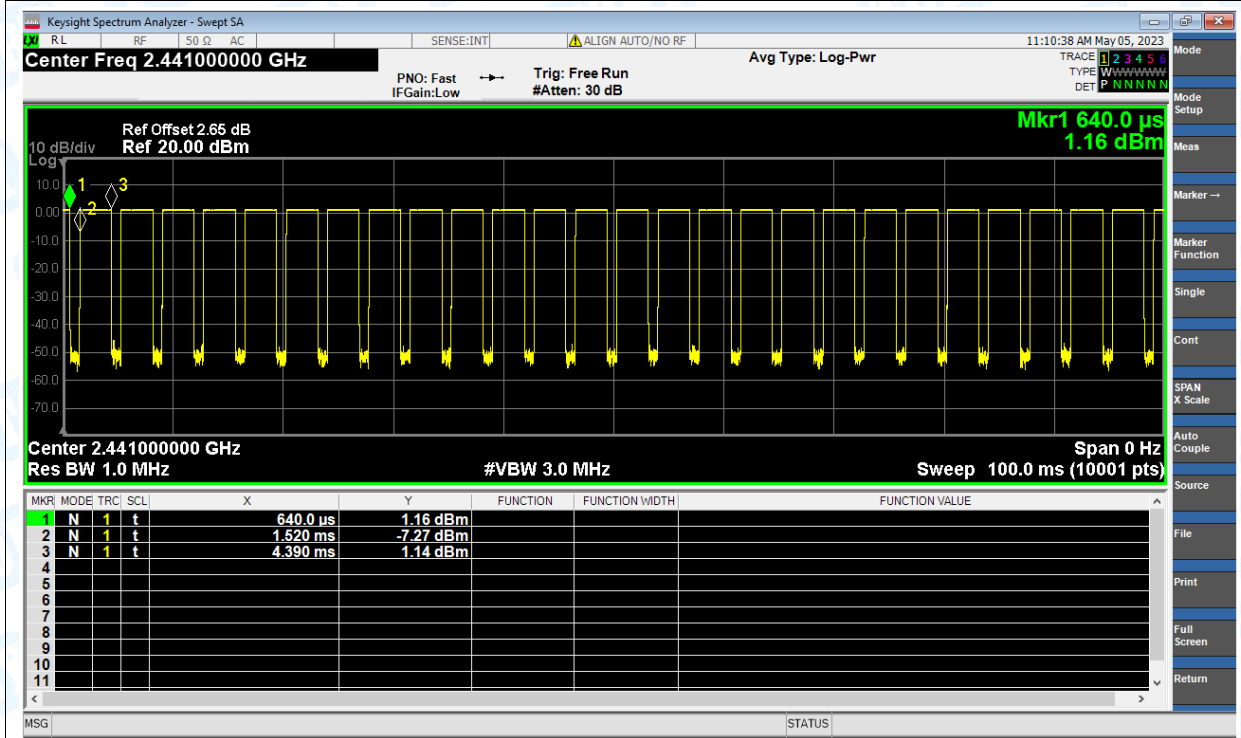
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	76.53	1.16	0.35
NVNT	1-DH1	2441	Ant1	76.53	1.16	0.35
NVNT	1-DH1	2480	Ant1	76.53	1.16	0.35
NVNT	2-DH1	2402	Ant1	30.4	5.17	2.63
NVNT	2-DH1	2441	Ant1	30.4	5.17	2.63
NVNT	2-DH1	2480	Ant1	30.4	5.17	2.63
NVNT	3-DH1	2402	Ant1	30.4	5.17	2.63
NVNT	3-DH1	2441	Ant1	31.2	5.06	2.56
NVNT	3-DH1	2480	Ant1	30.4	5.17	2.63

Test Graphs

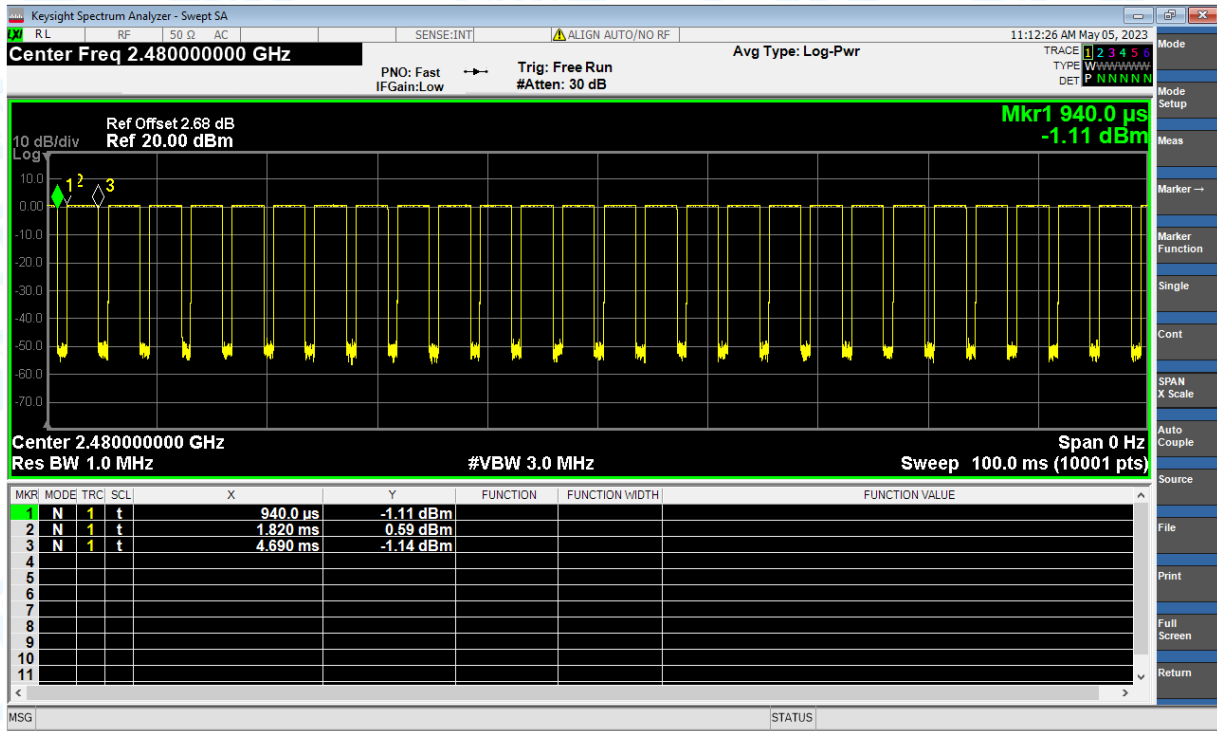
Duty Cycle NVNT 1-DH1 2402MHz Ant1



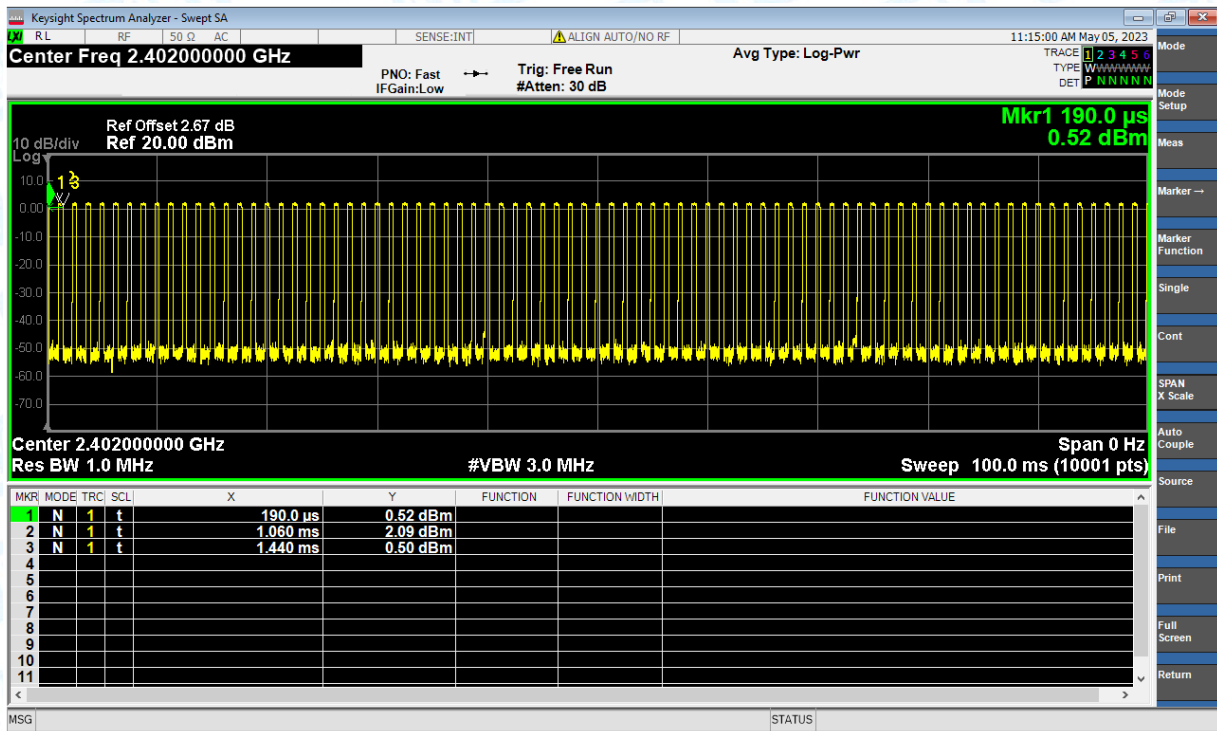
Duty Cycle NVNT 1-DH1 2441MHz Ant1



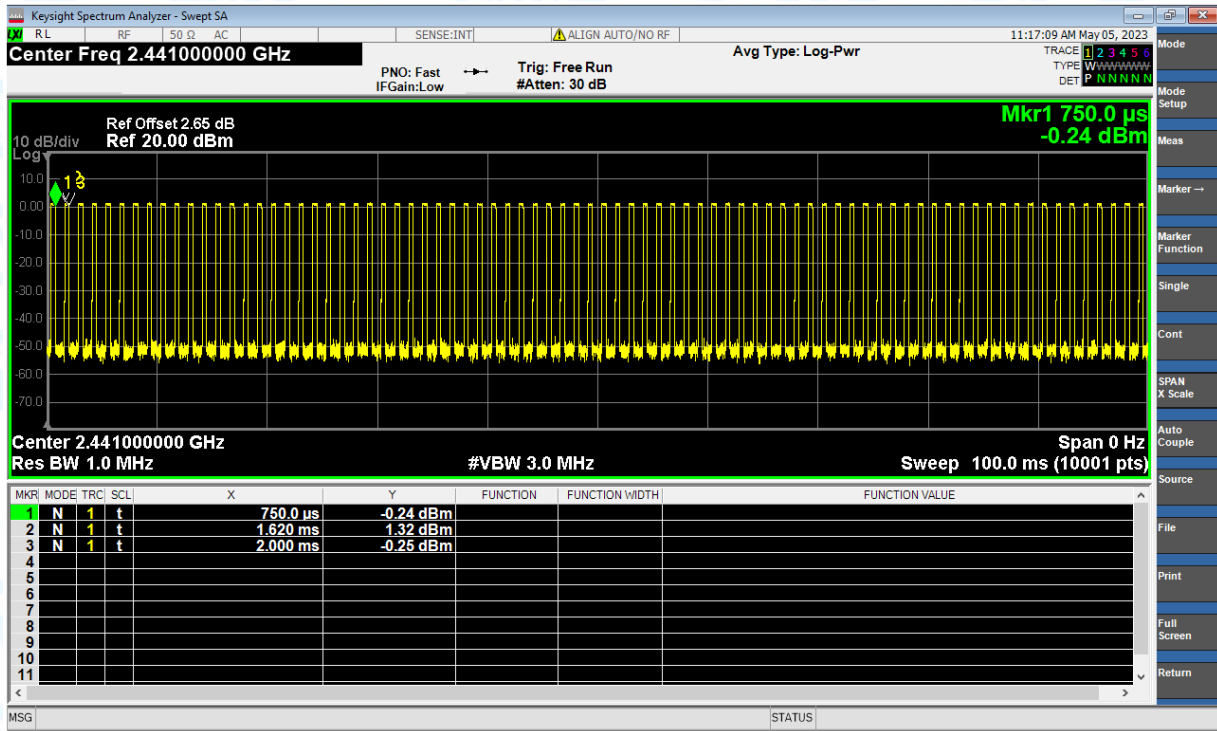
Duty Cycle NVNT 1-DH1 2480MHz Ant1



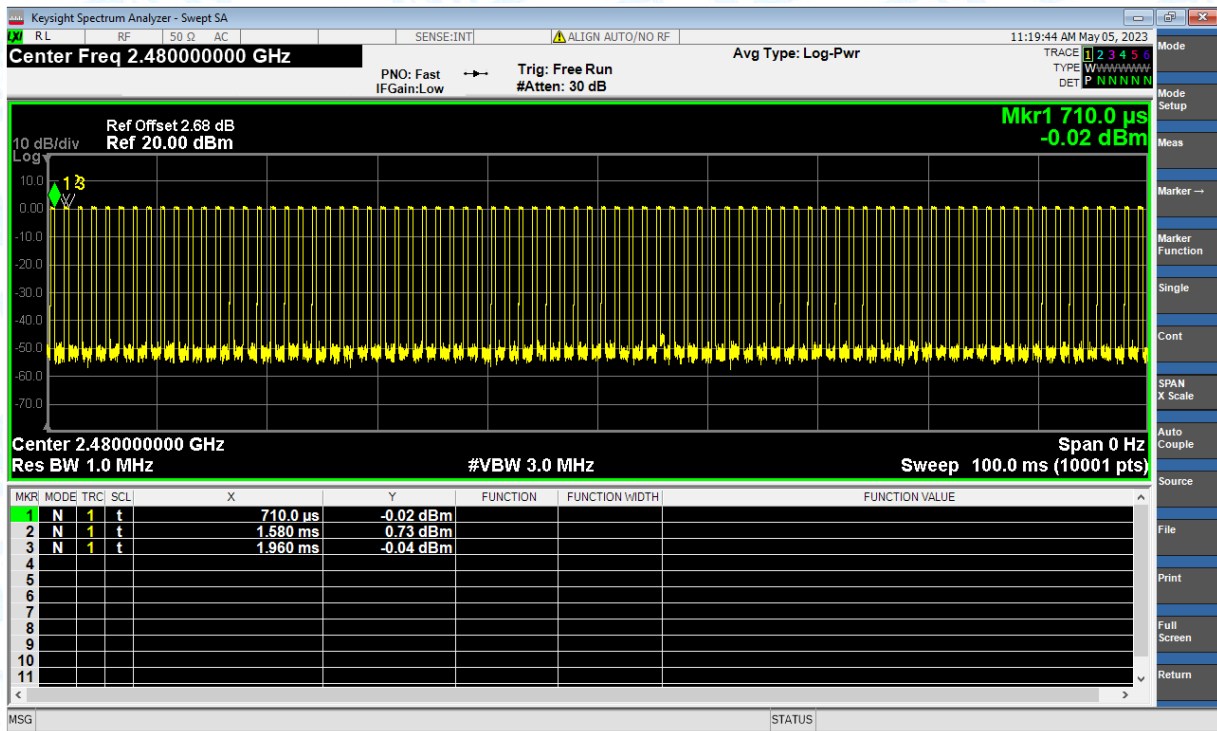
Duty Cycle NVNT 2-DH1 2402MHz Ant1



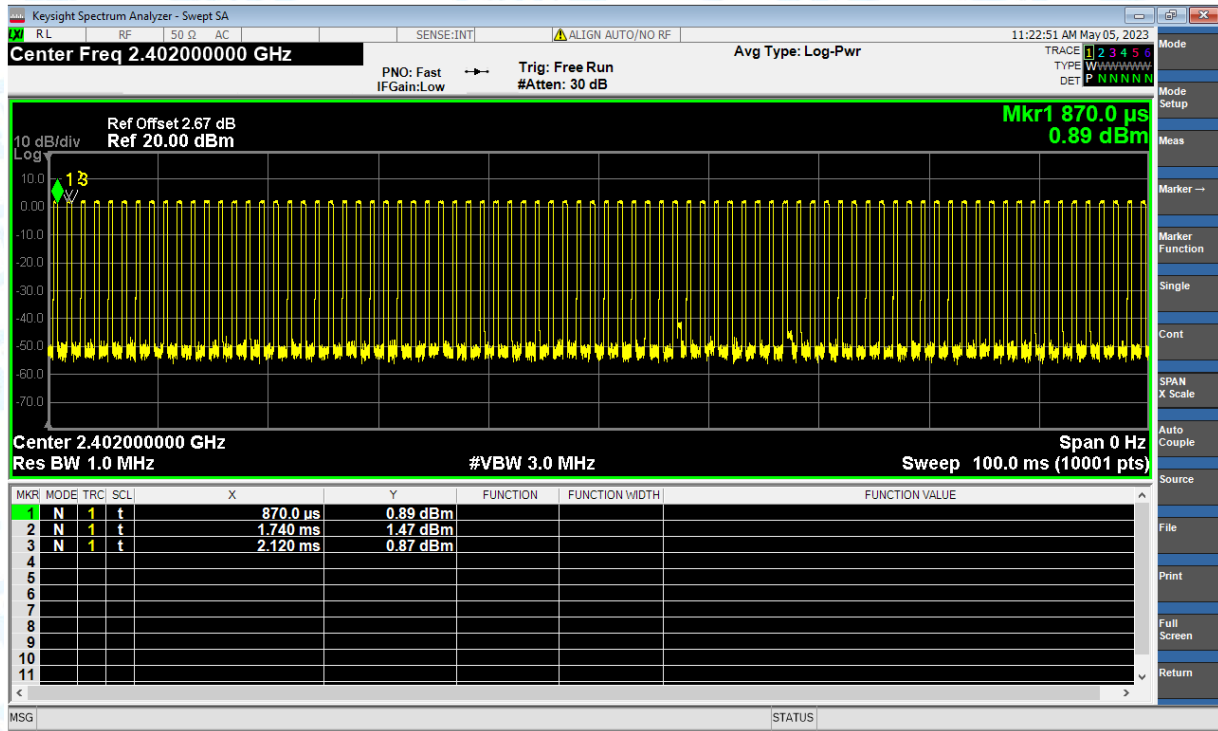
Duty Cycle NVNT 2-DH1 2441MHz Ant1



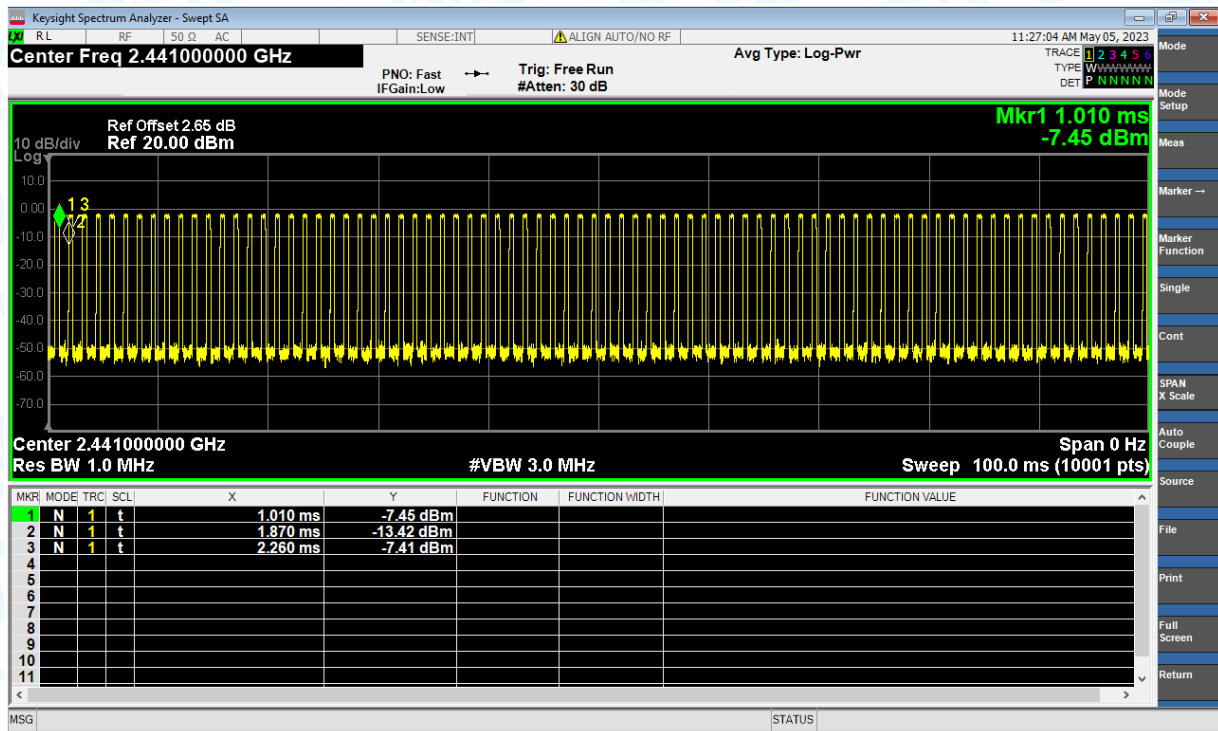
Duty Cycle NVNT 2-DH1 2480MHz Ant1

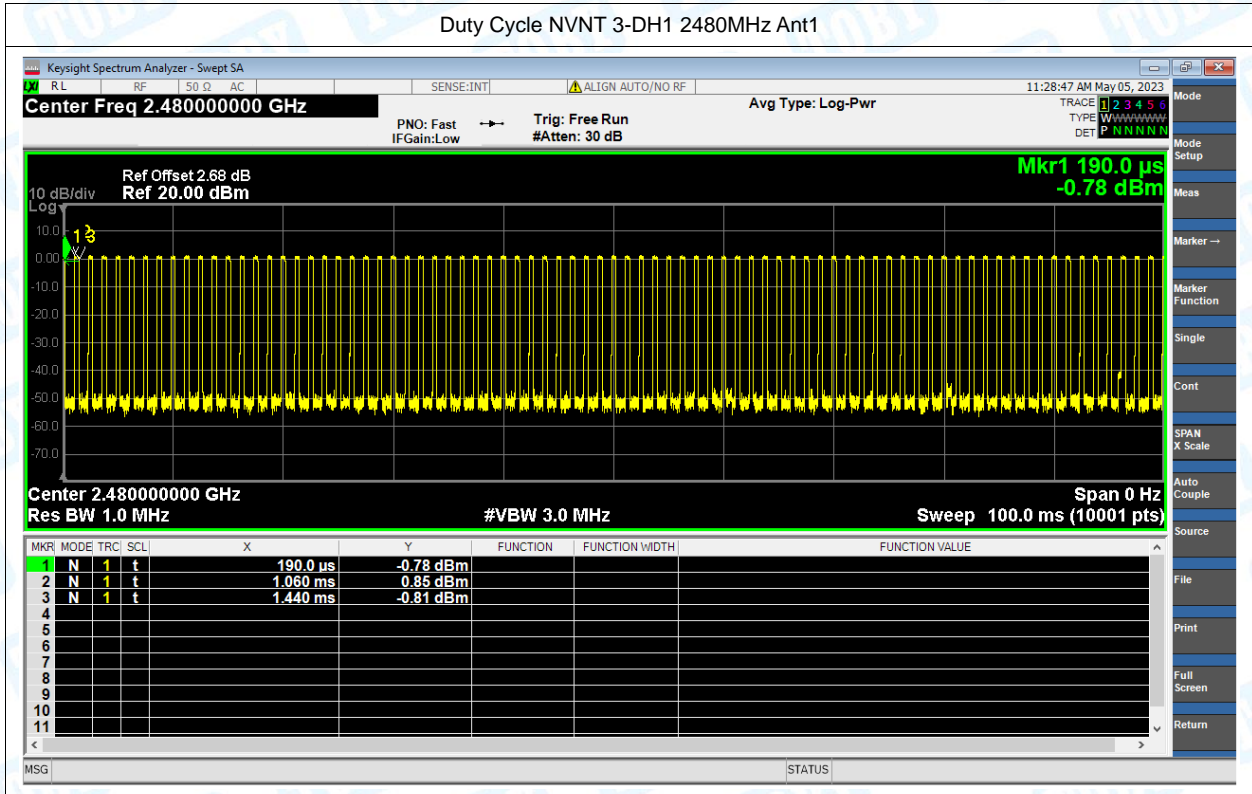


Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1



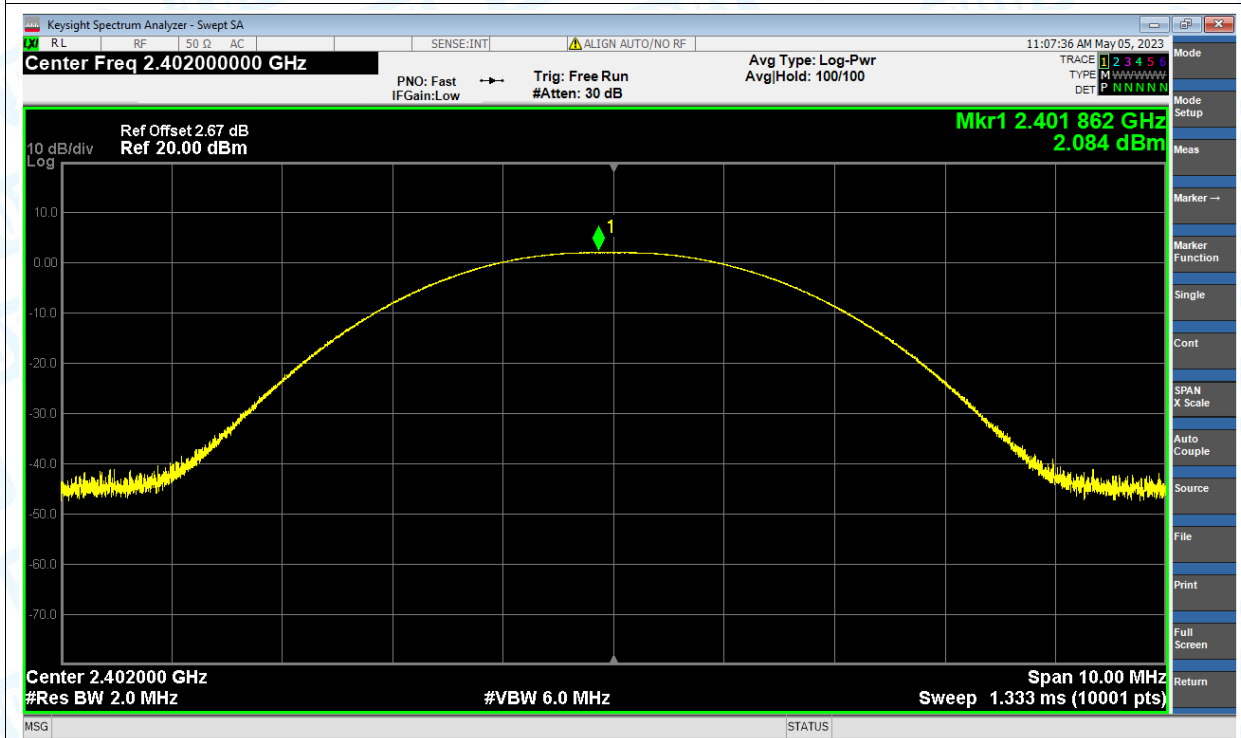


Maximum Conducted Output Power

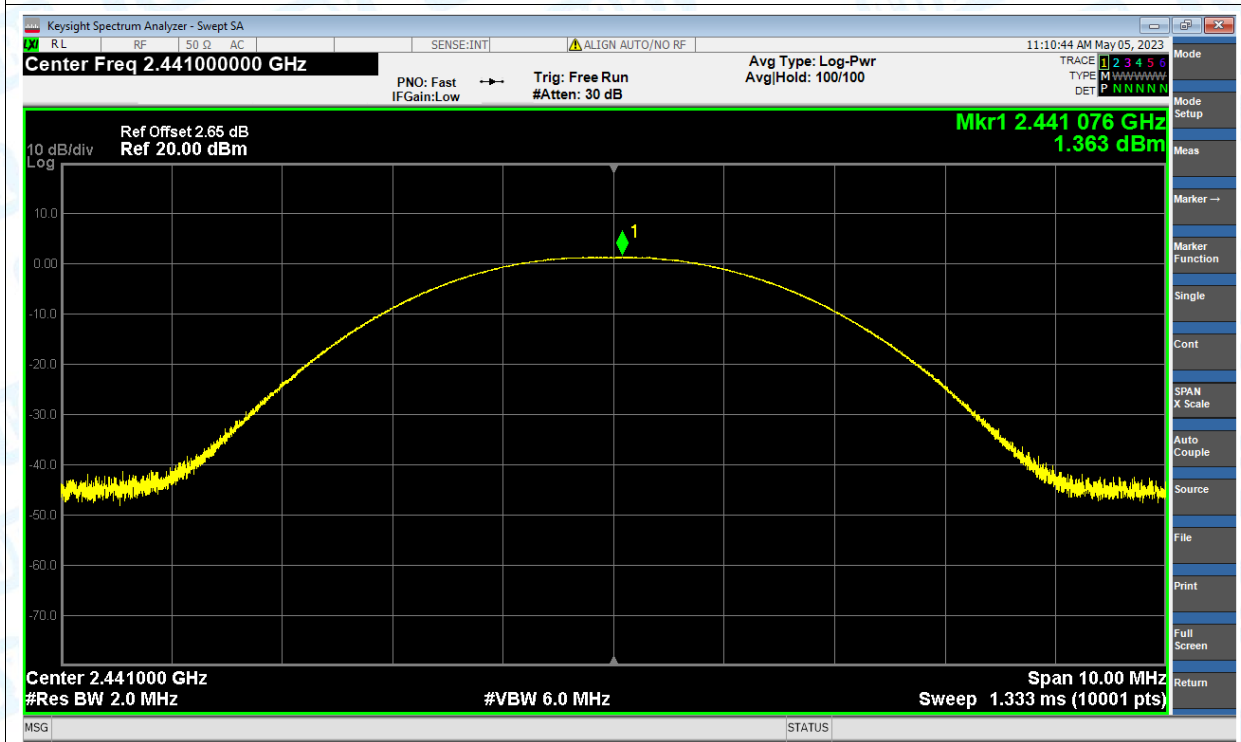
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	2.084	21	Pass
NVNT	1-DH1	2441	Ant1	1.363	21	Pass
NVNT	1-DH1	2480	Ant1	0.817	21	Pass
NVNT	2-DH1	2402	Ant1	2.627	21	Pass
NVNT	2-DH1	2441	Ant1	1.945	21	Pass
NVNT	2-DH1	2480	Ant1	1.232	21	Pass
NVNT	3-DH1	2402	Ant1	2.877	21	Pass
NVNT	3-DH1	2441	Ant1	2.105	21	Pass
NVNT	3-DH1	2480	Ant1	1.620	21	Pass

Test Graphs

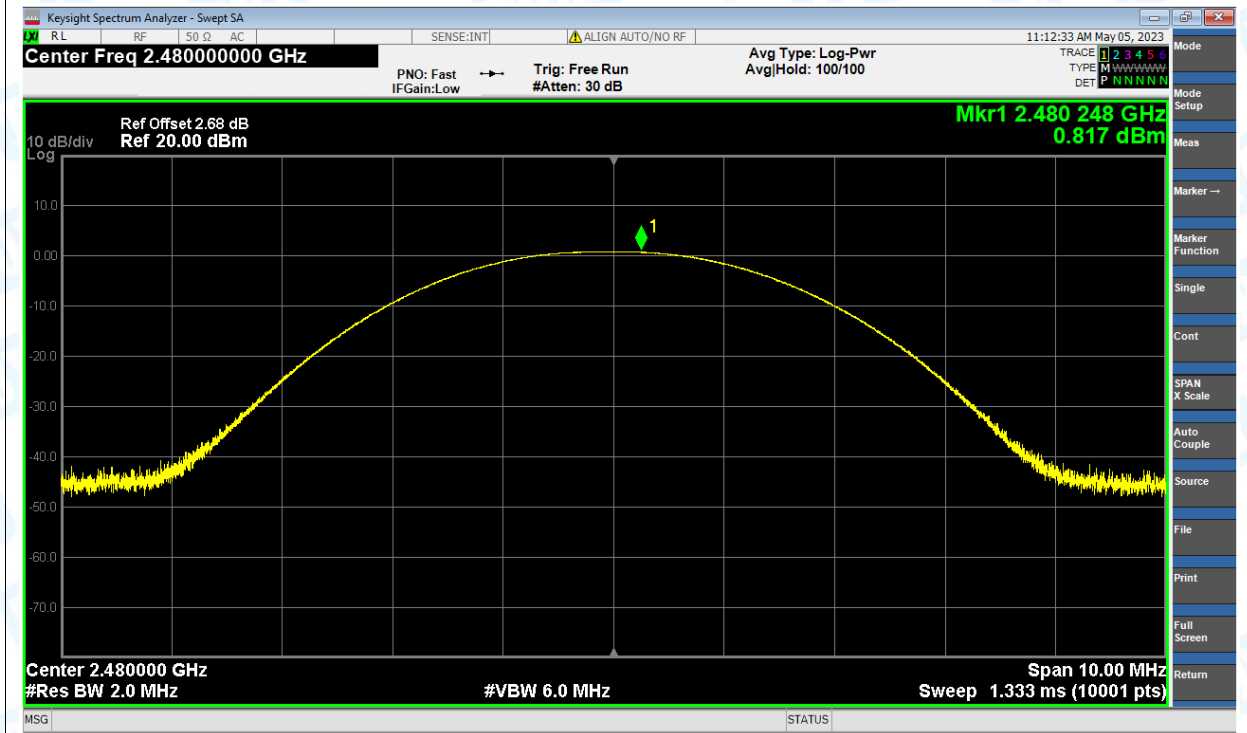
Power NVNT 1-DH1 2402MHz Ant1



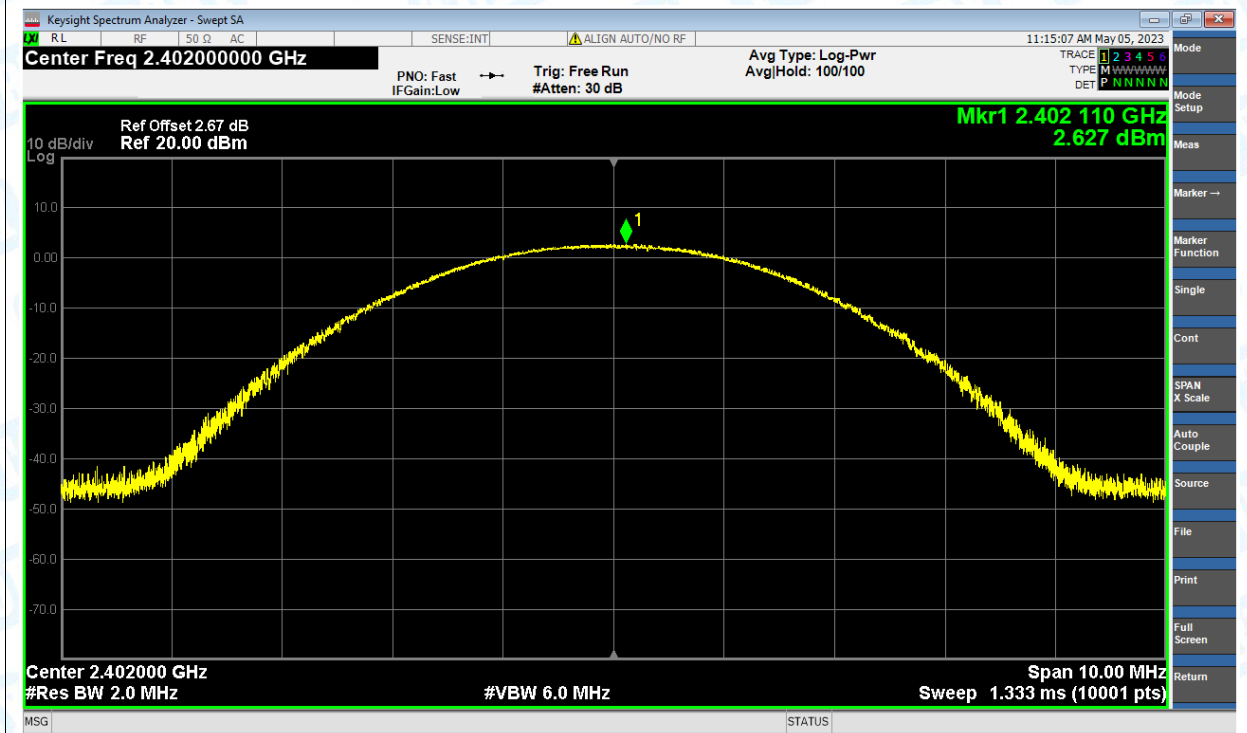
Power NVNT 1-DH1 2441MHz Ant1



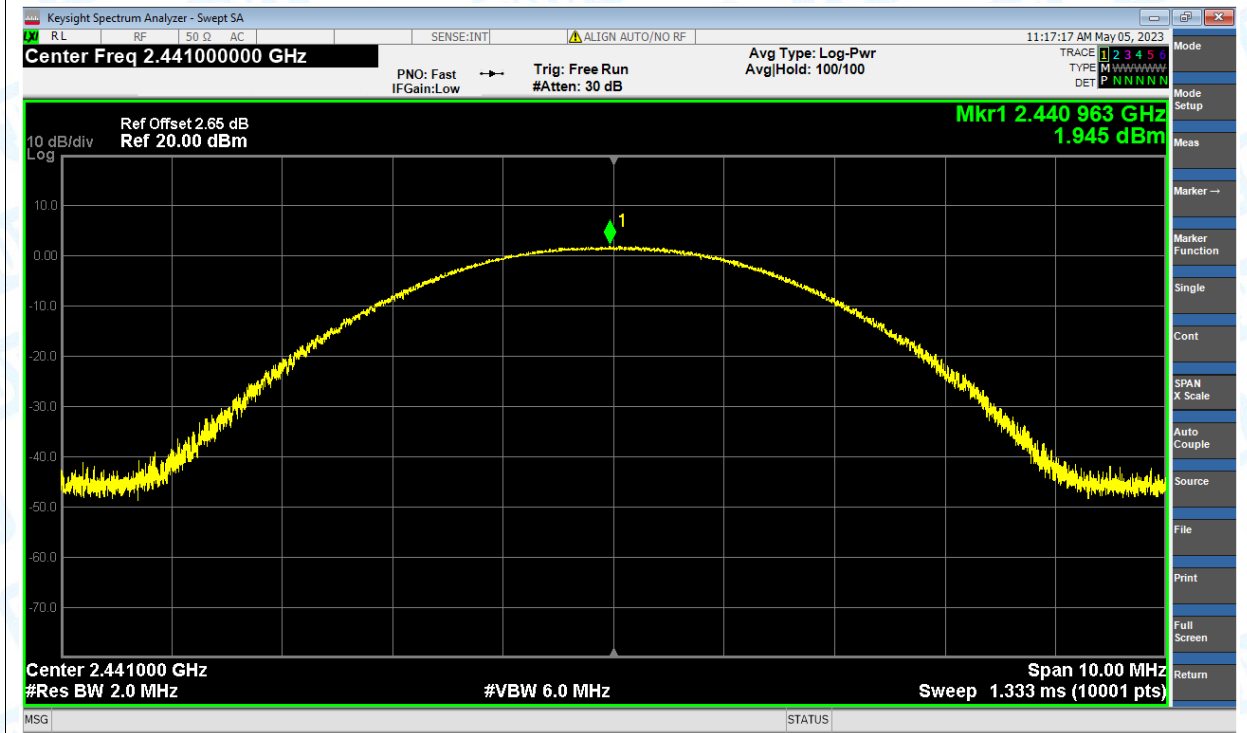
Power NVNT 1-DH1 2480MHz Ant1



Power NVNT 2-DH1 2402MHz Ant1



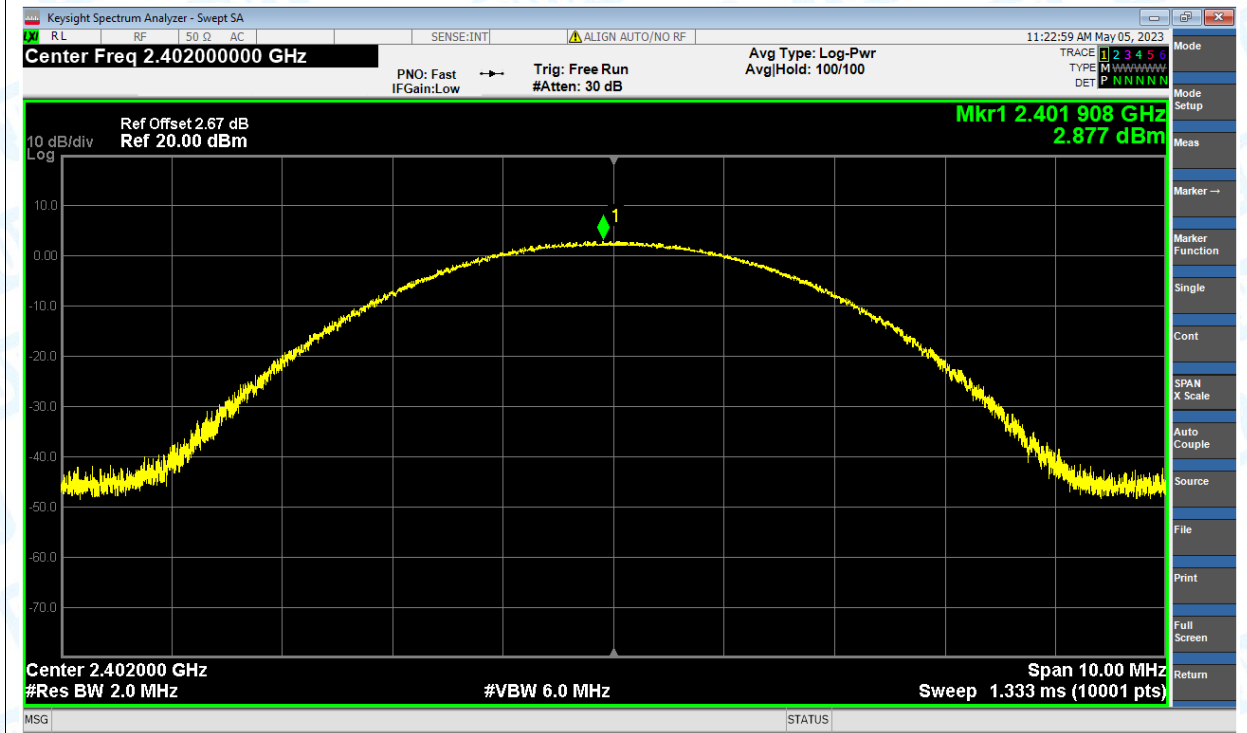
Power NVNT 2-DH1 2441MHz Ant1



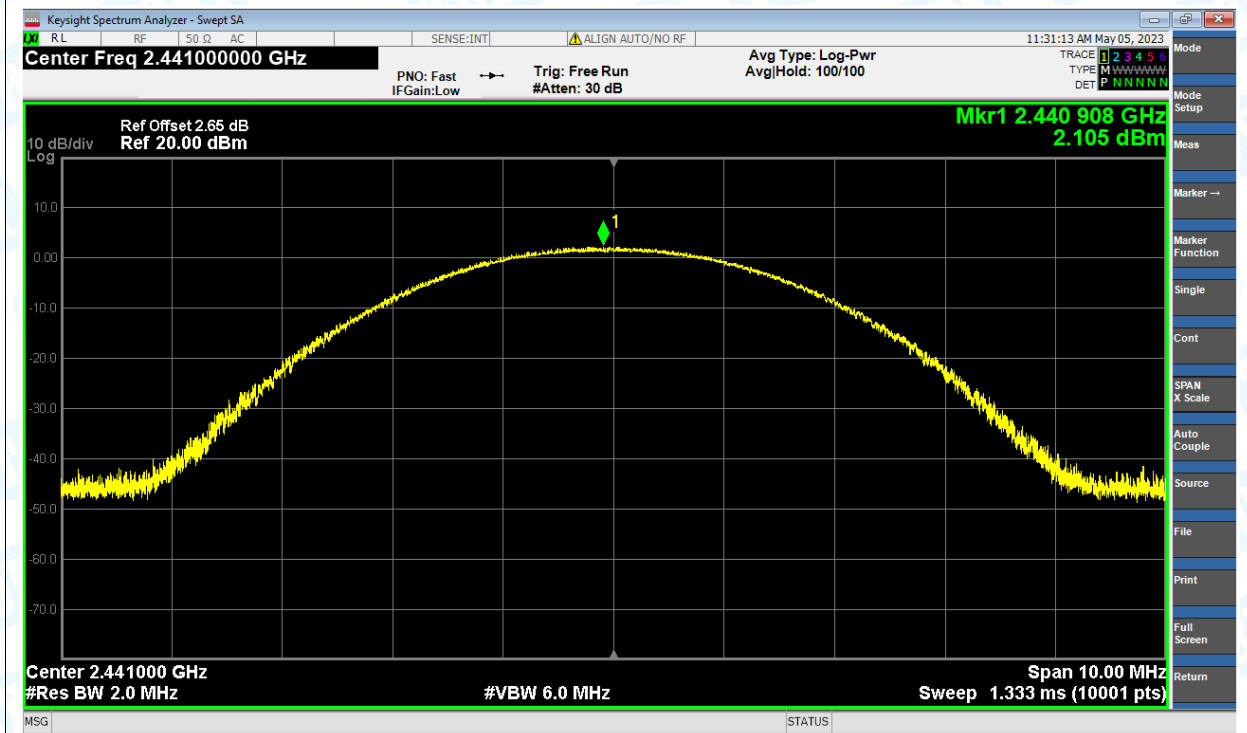
Power NVNT 2-DH1 2480MHz Ant1



Power NVNT 3-DH1 2402MHz Ant1



Power NVNT 3-DH1 2441MHz Ant1



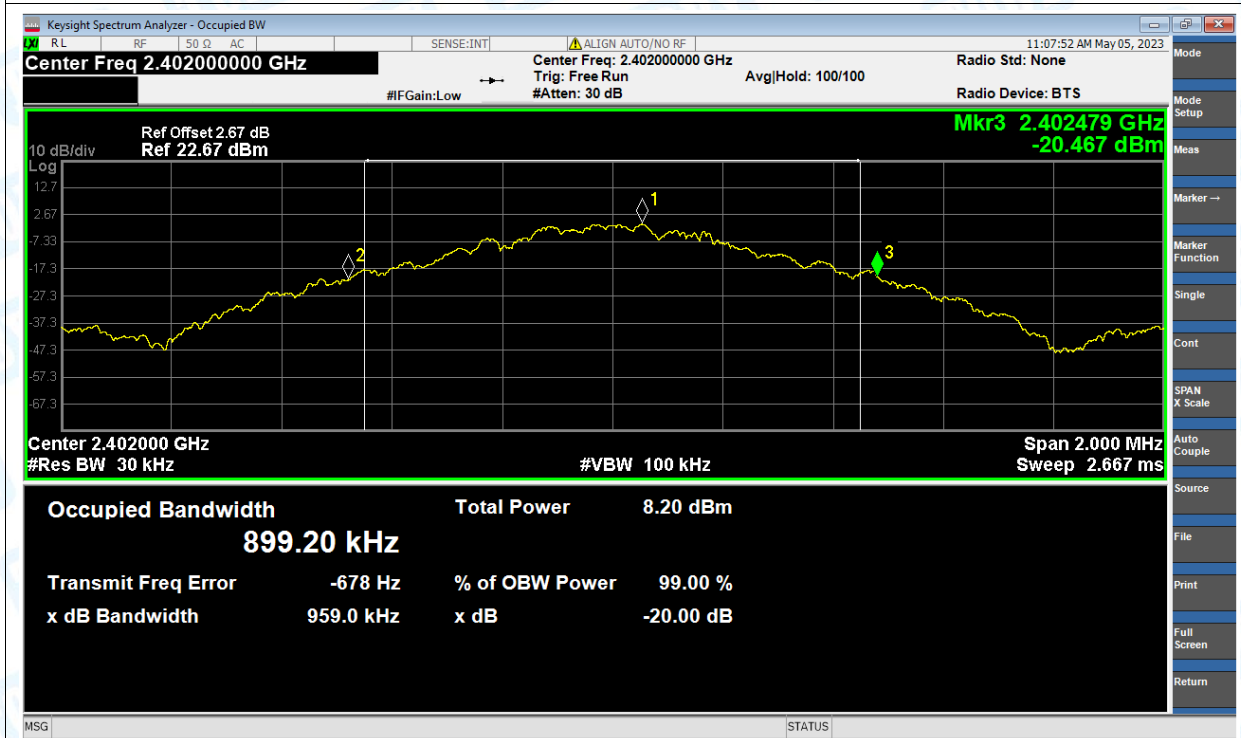


-20dB Bandwidth

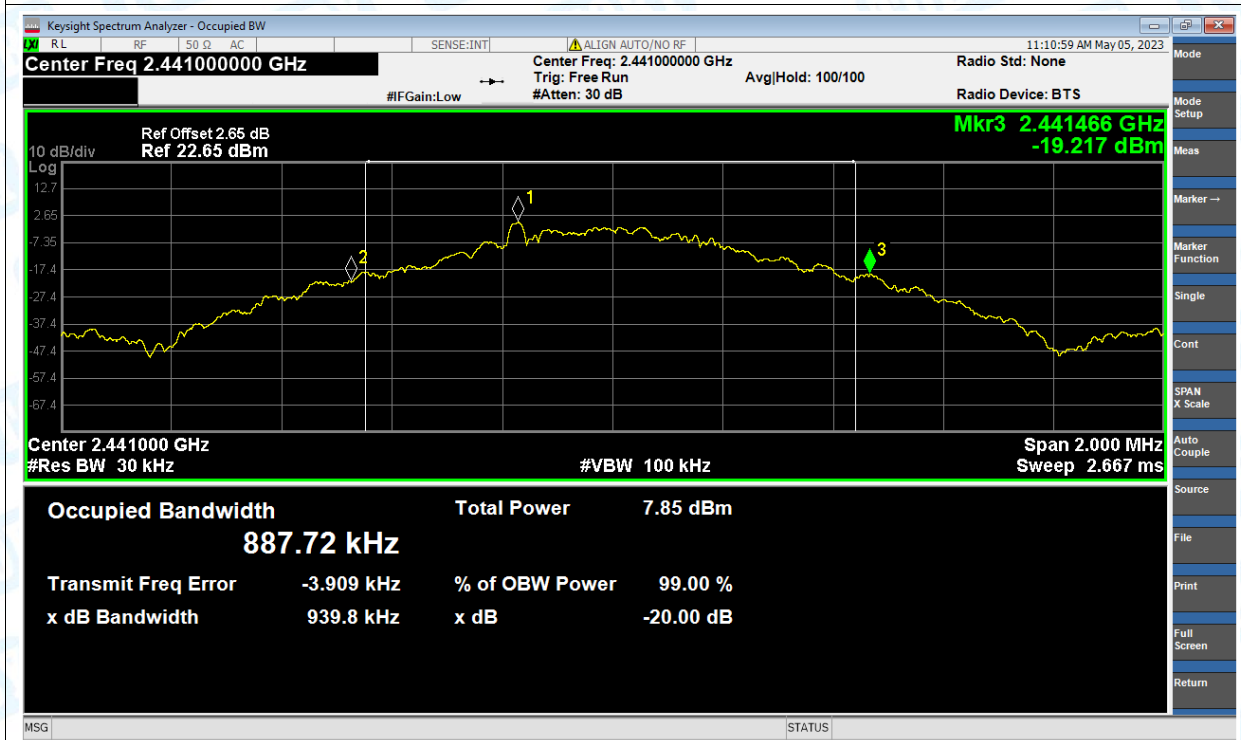
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.96	0	Pass
NVNT	1-DH1	2441	Ant1	0.94	0	Pass
NVNT	1-DH1	2480	Ant1	0.95	0	Pass
NVNT	2-DH1	2402	Ant1	1.23	0	Pass
NVNT	2-DH1	2441	Ant1	1.25	0	Pass
NVNT	2-DH1	2480	Ant1	1.23	0	Pass
NVNT	3-DH1	2402	Ant1	1.23	0	Pass
NVNT	3-DH1	2441	Ant1	1.22	0	Pass
NVNT	3-DH1	2480	Ant1	1.21	0	Pass

Test Graphs

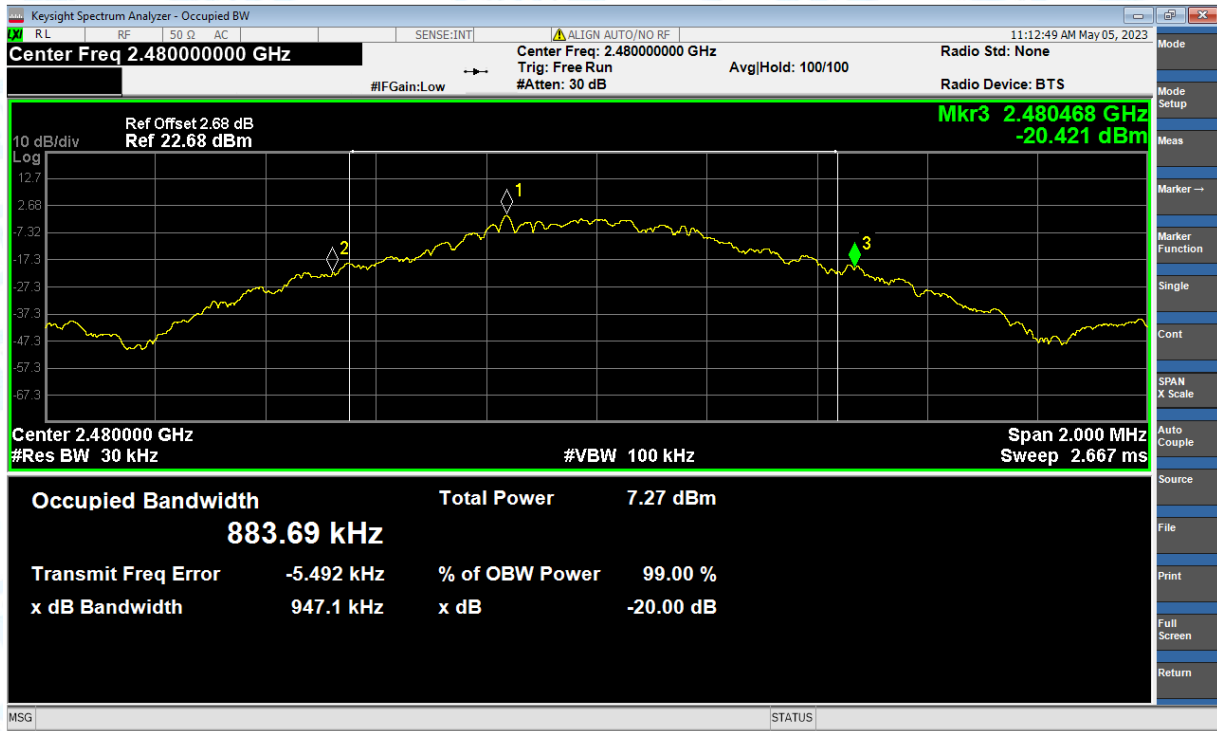
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



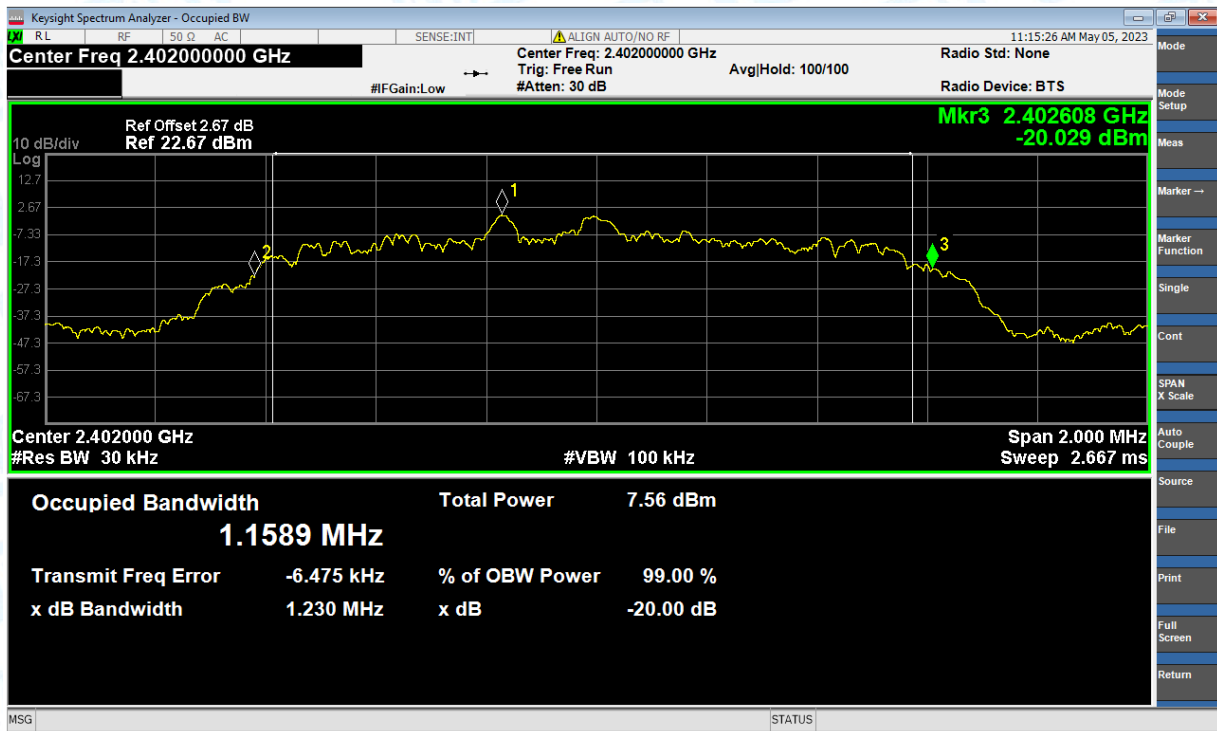
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



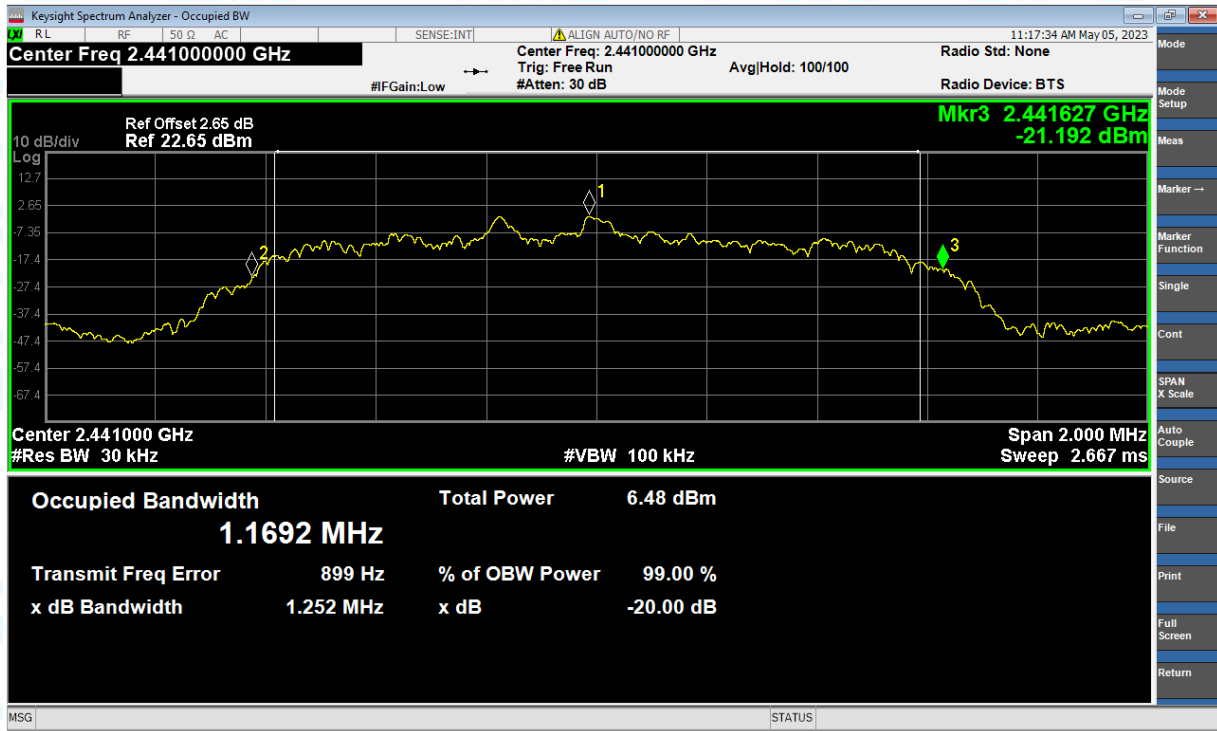
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



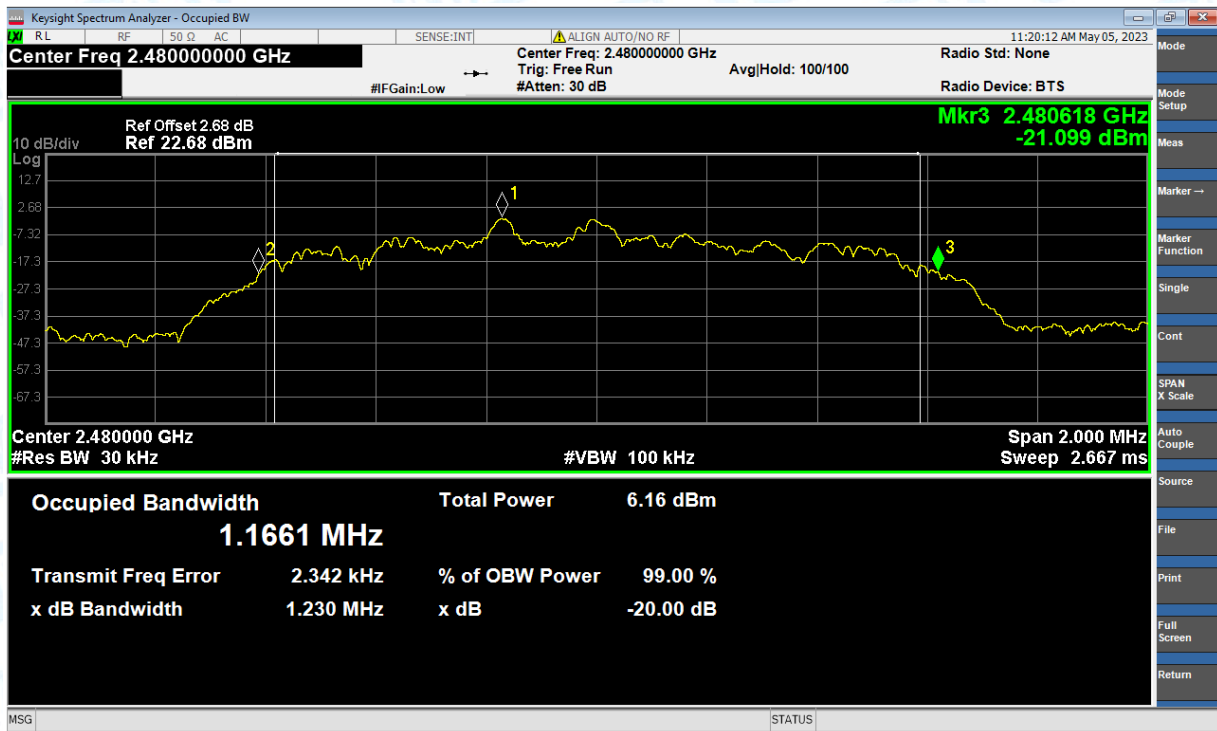
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



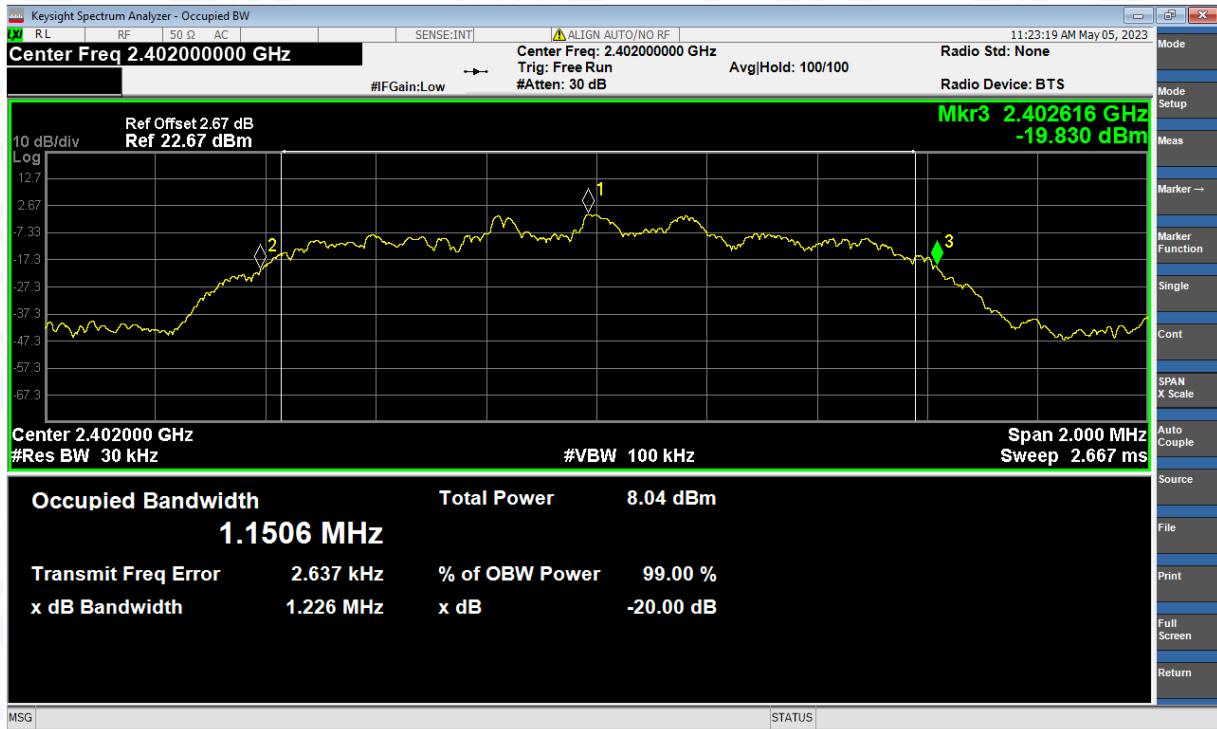
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



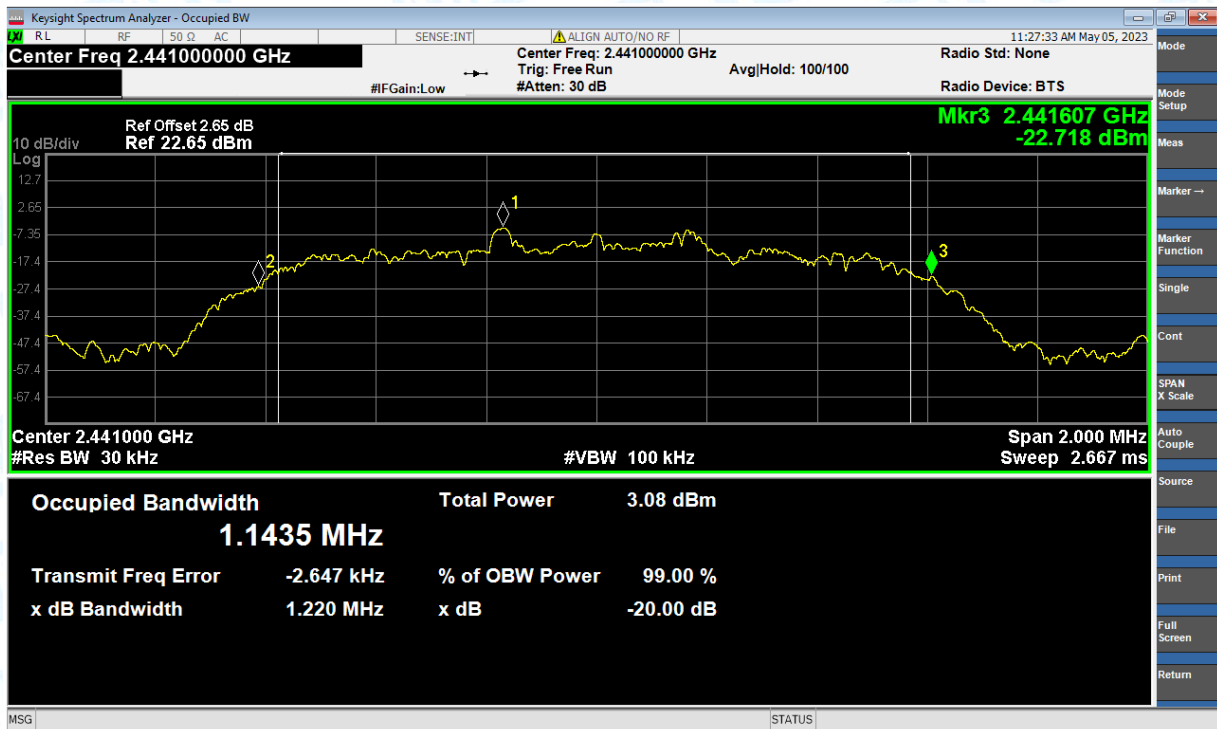
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

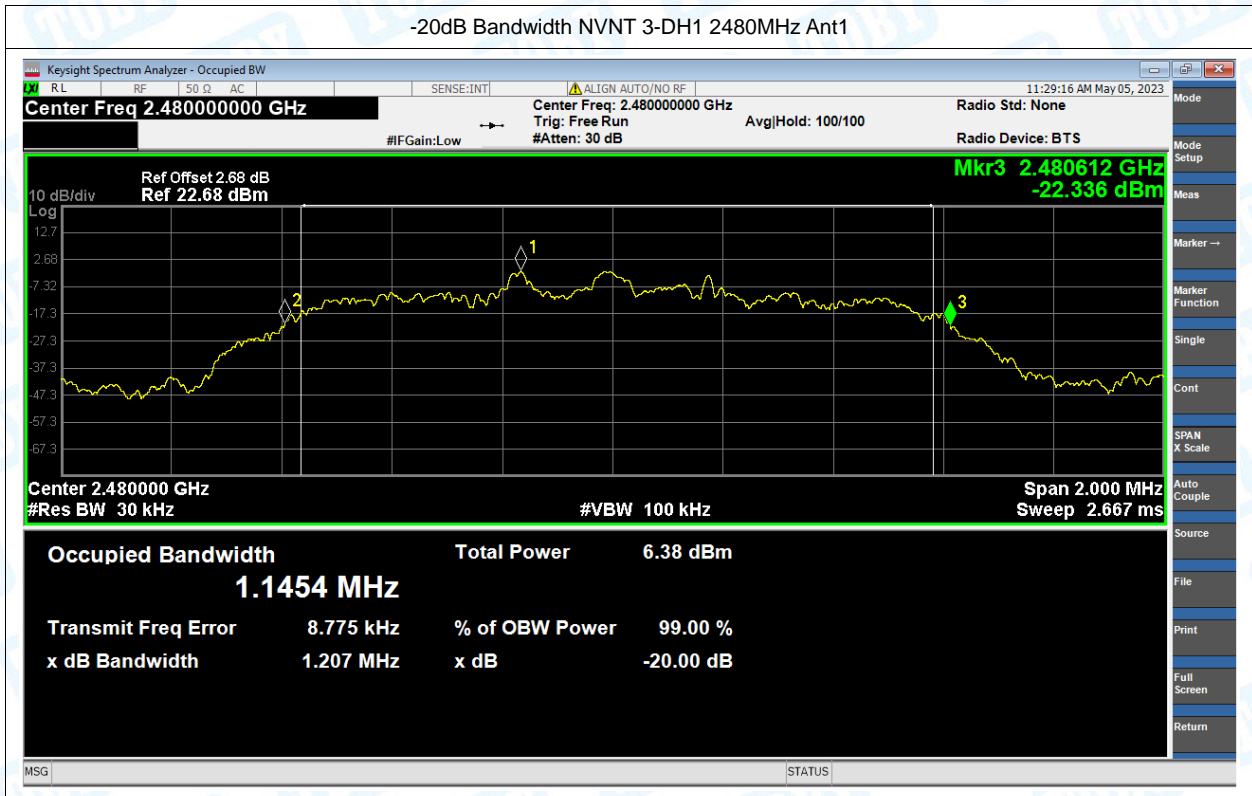


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



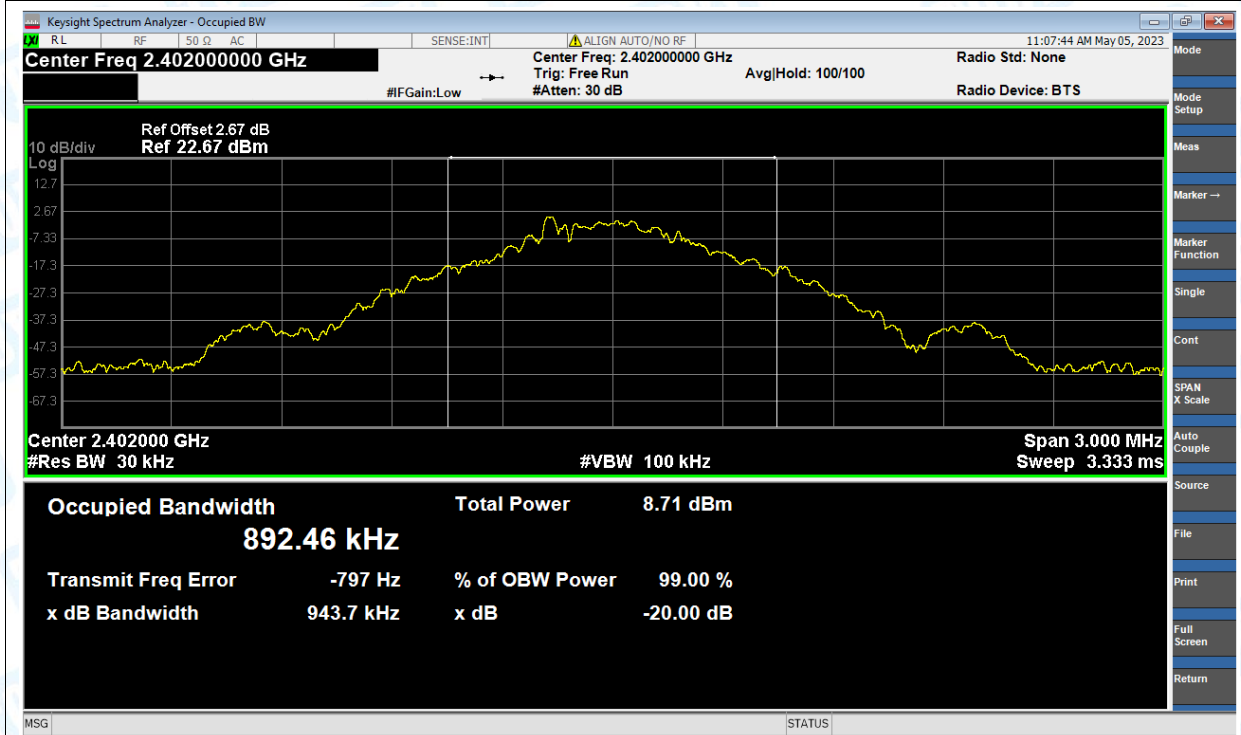


Occupied Channel Bandwidth

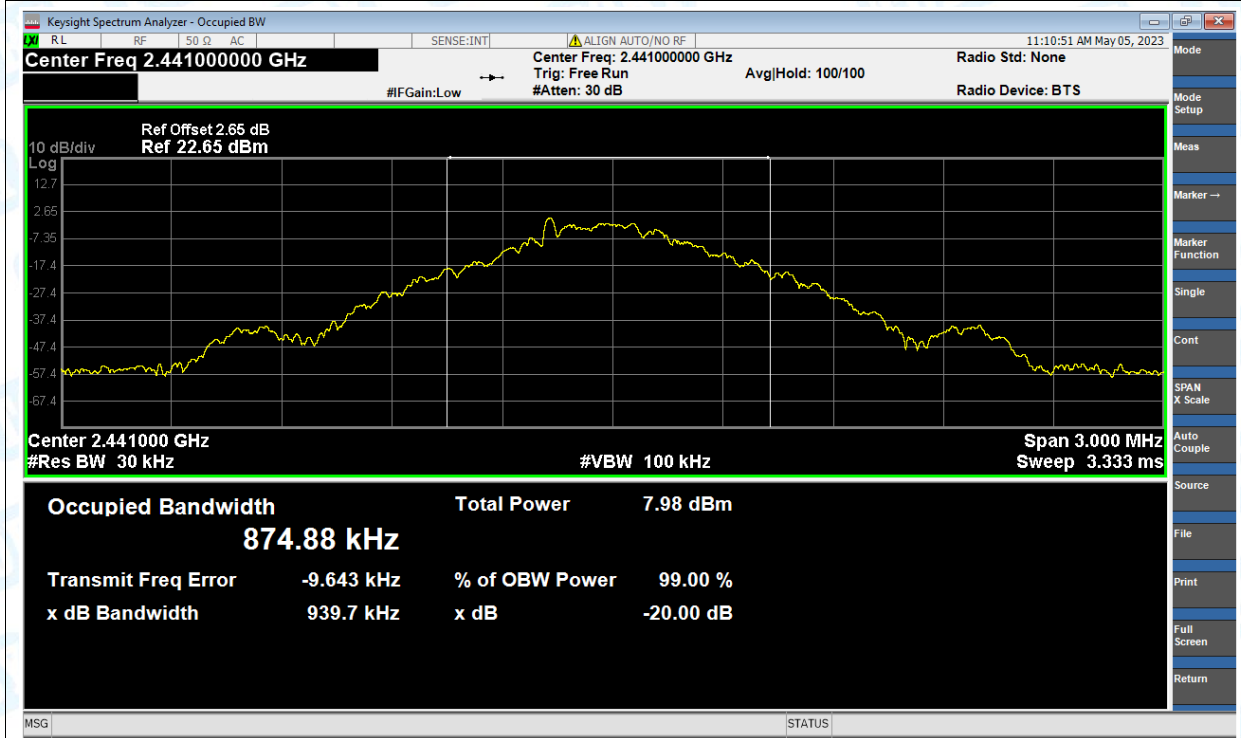
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.892
NVNT	1-DH1	2441	Ant1	0.875
NVNT	1-DH1	2480	Ant1	0.885
NVNT	2-DH1	2402	Ant1	1.161
NVNT	2-DH1	2441	Ant1	1.162
NVNT	2-DH1	2480	Ant1	1.151
NVNT	3-DH1	2402	Ant1	1.149
NVNT	3-DH1	2441	Ant1	1.155
NVNT	3-DH1	2480	Ant1	1.137

Test Graphs

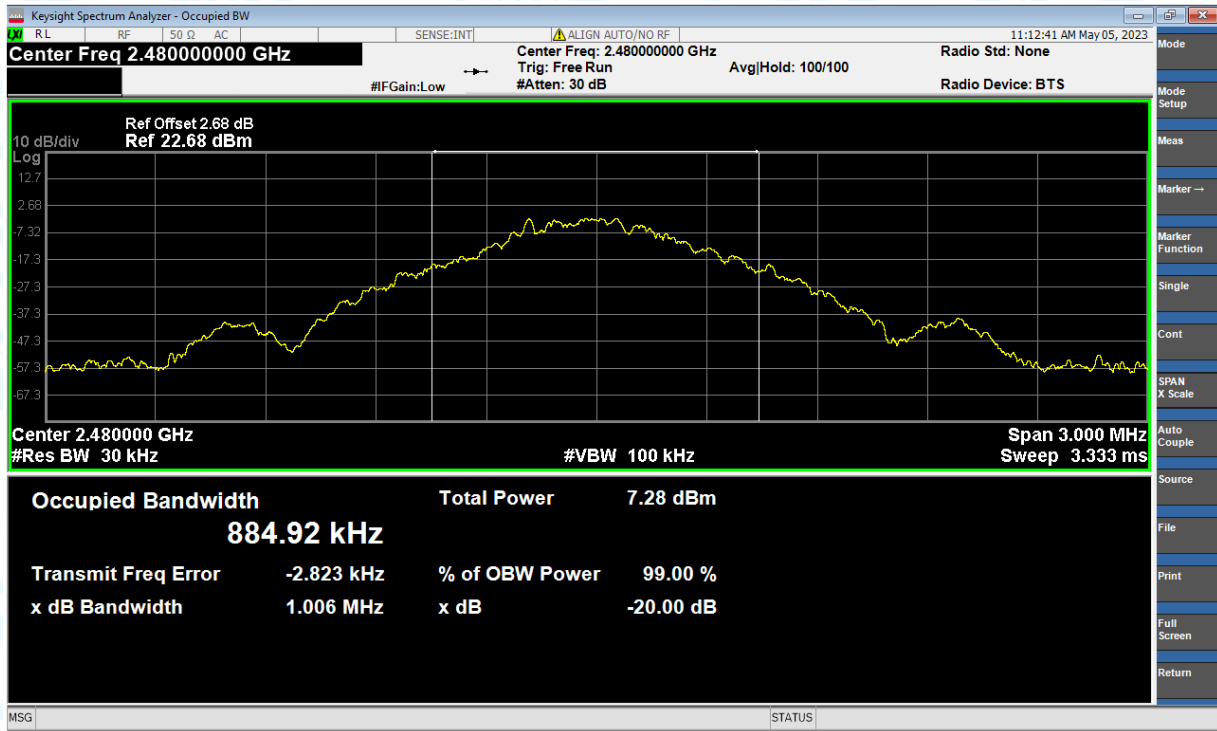
OBW NVNT 1-DH1 2402MHz Ant1



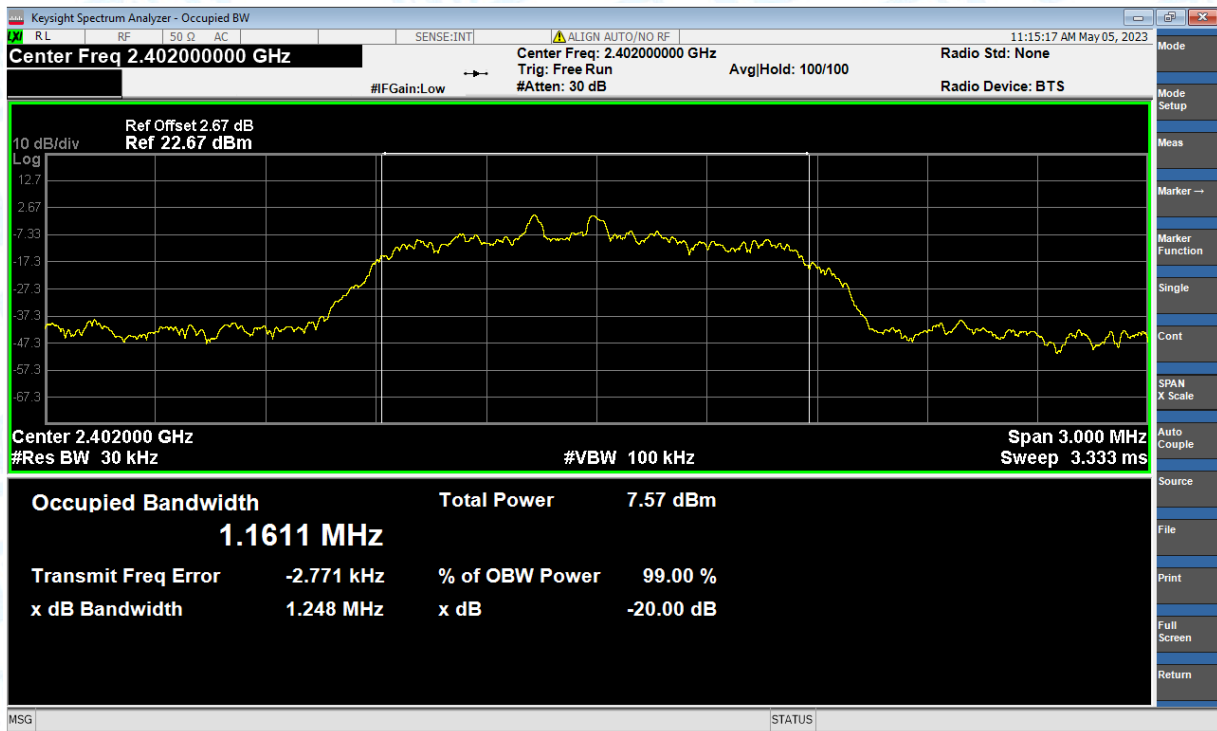
OBW NVNT 1-DH1 2441MHz Ant1



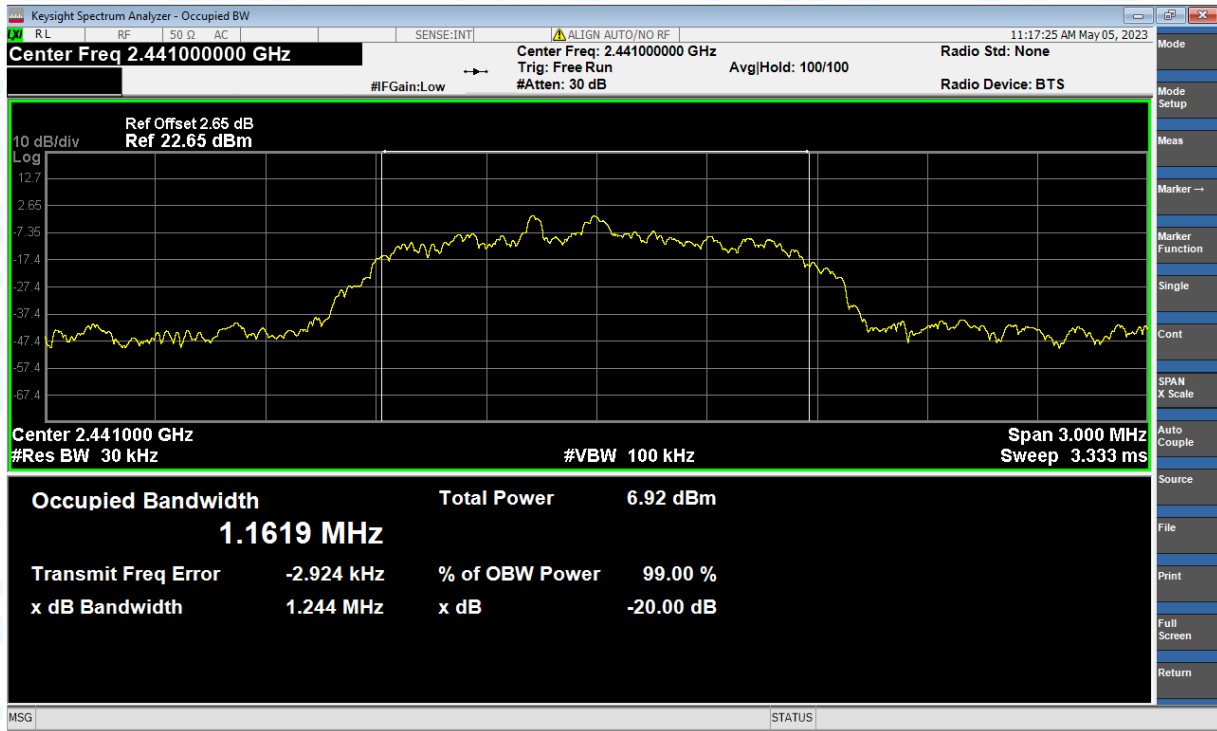
OBW NVNT 1-DH1 2480MHz Ant1



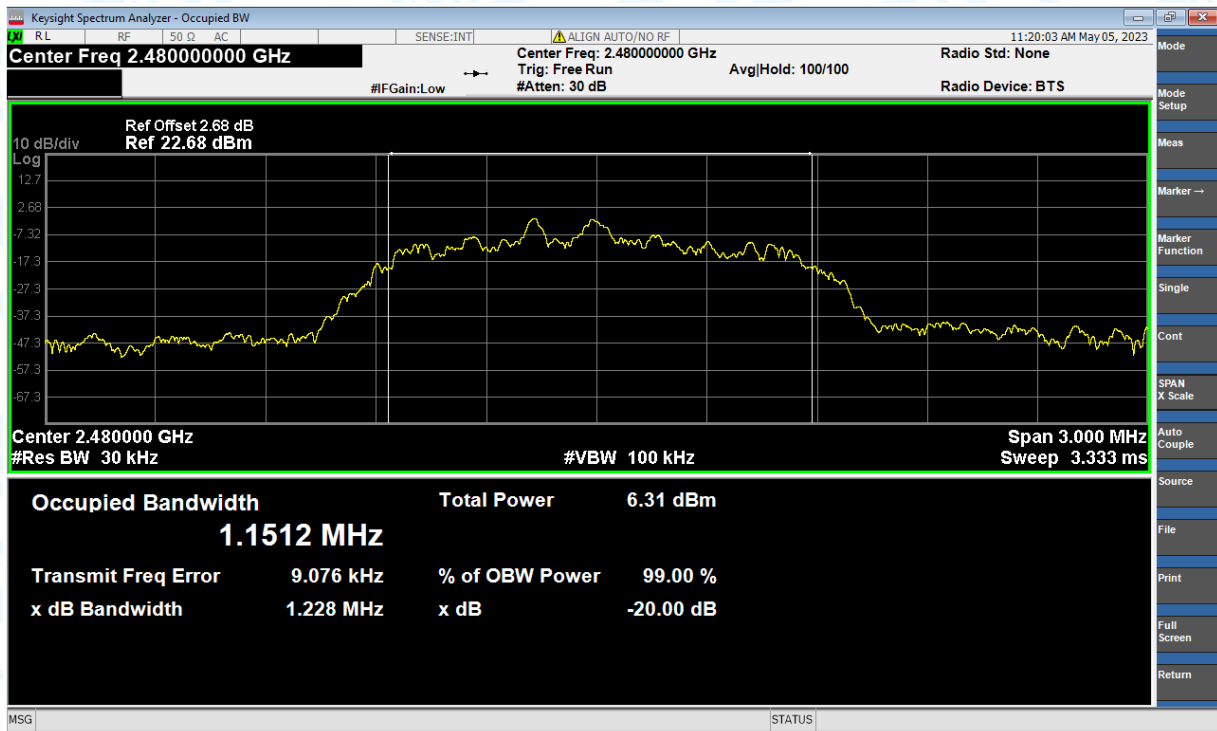
OBW NVNT 2-DH1 2402MHz Ant1



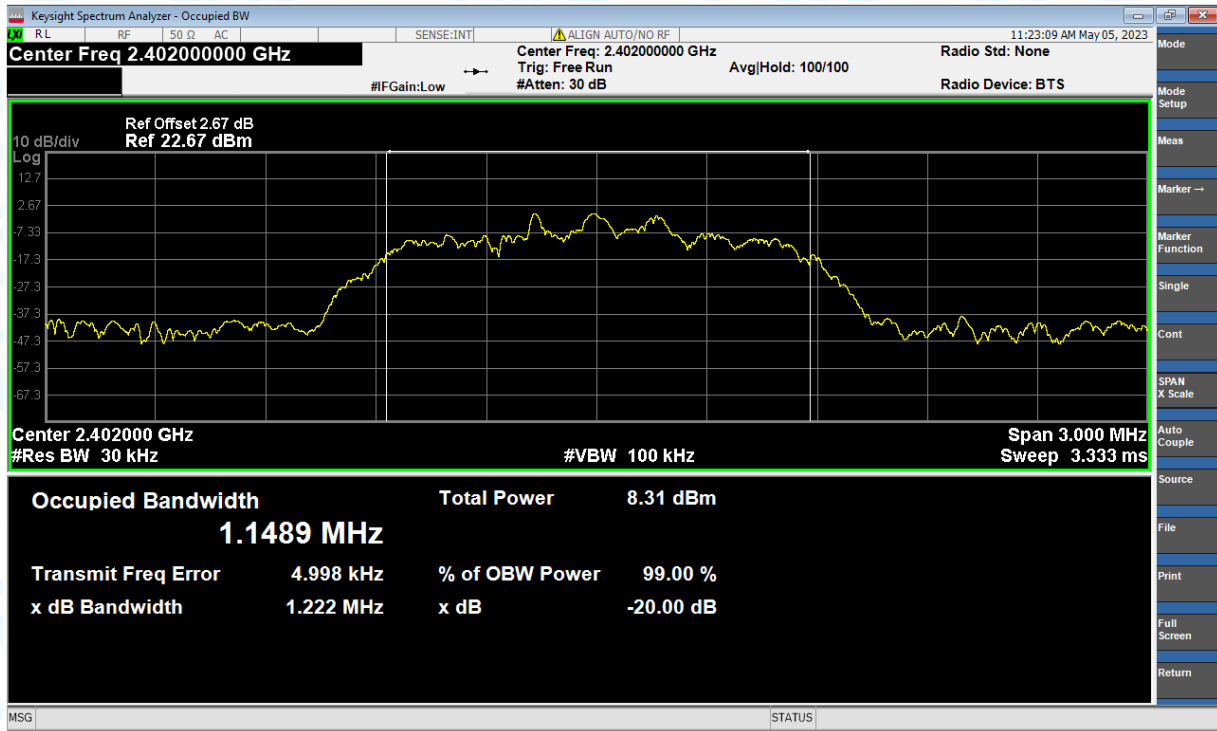
OBW NVNT 2-DH1 2441MHz Ant1



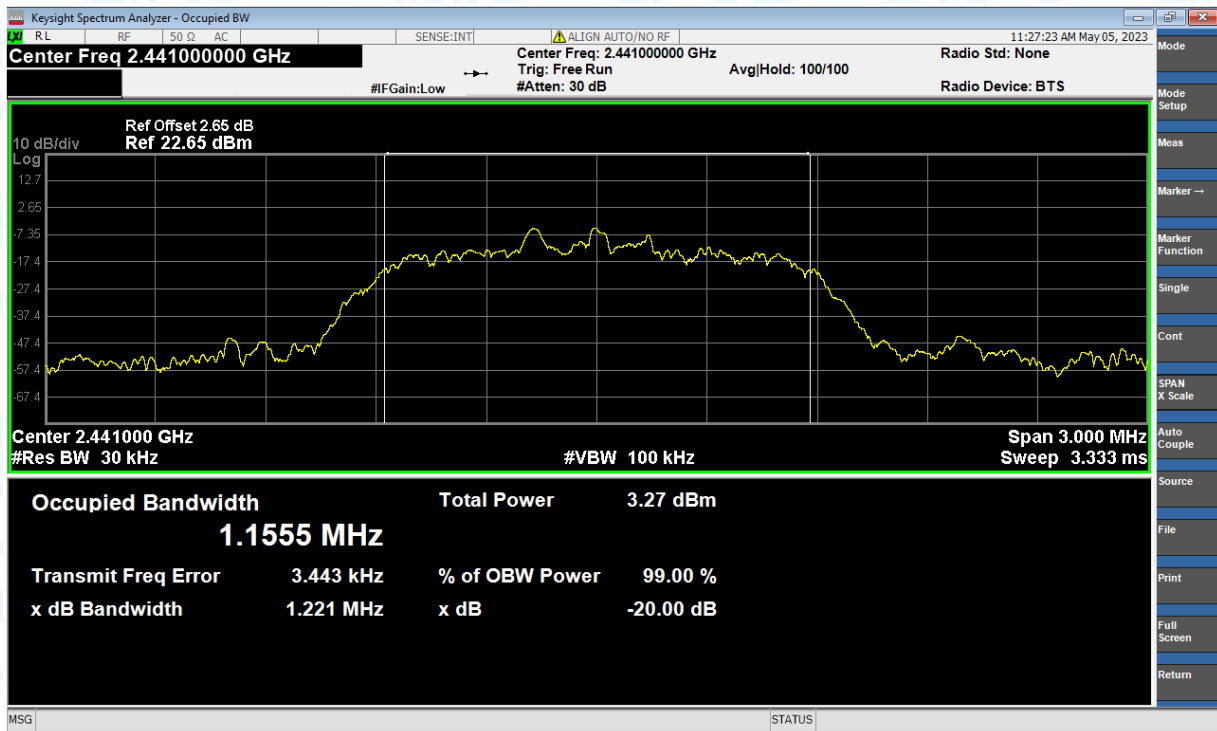
OBW NVNT 2-DH1 2480MHz Ant1

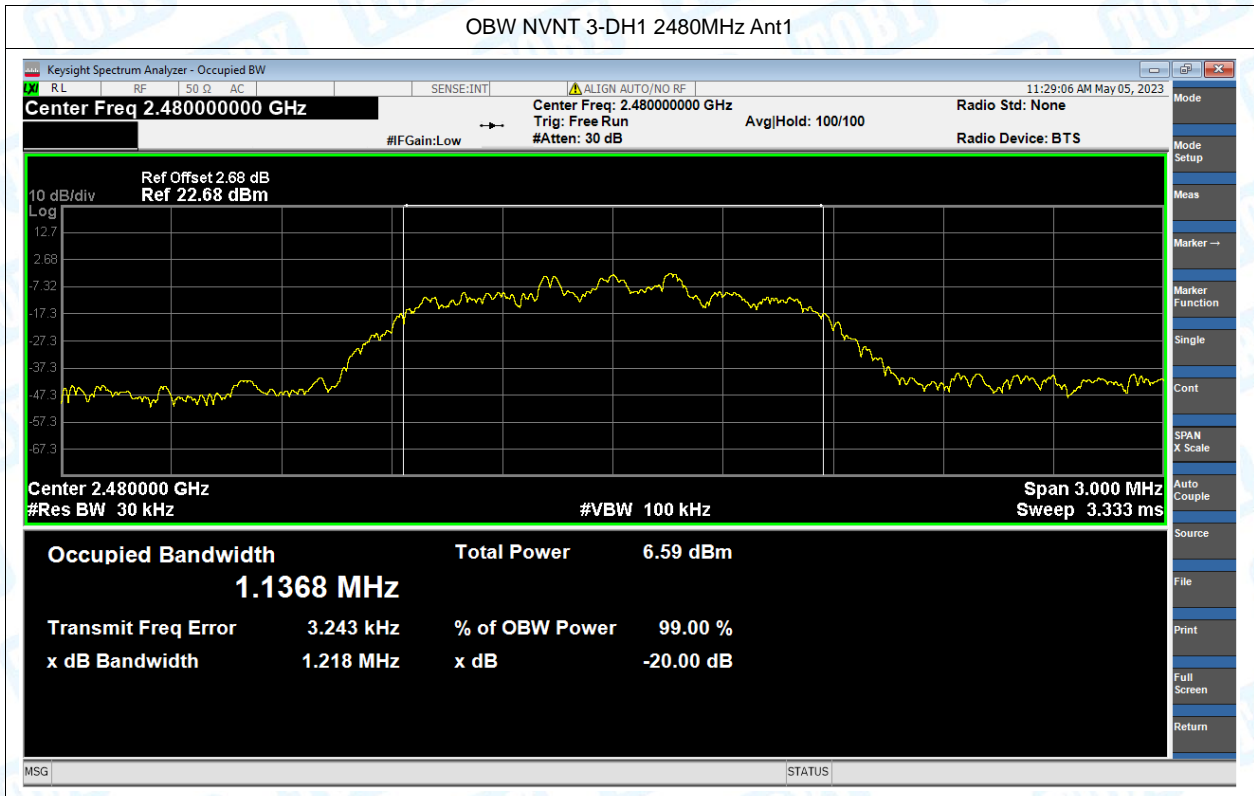


OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1



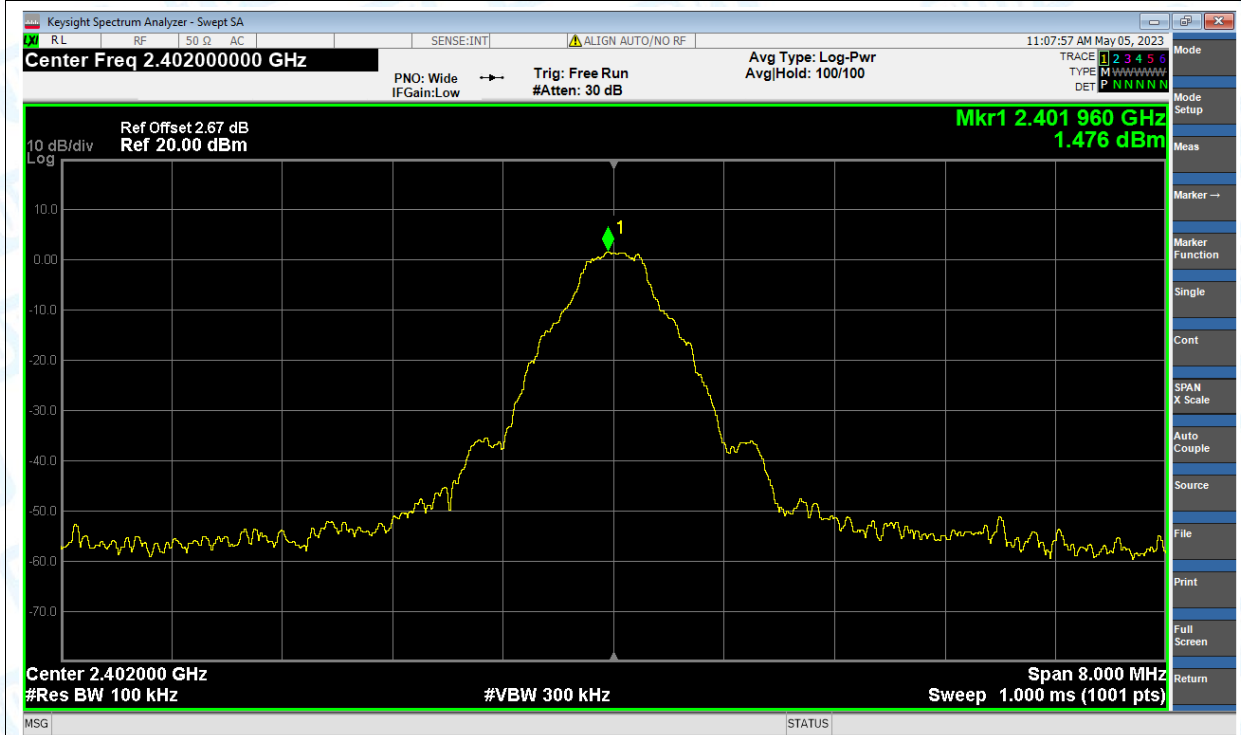


Band Edge

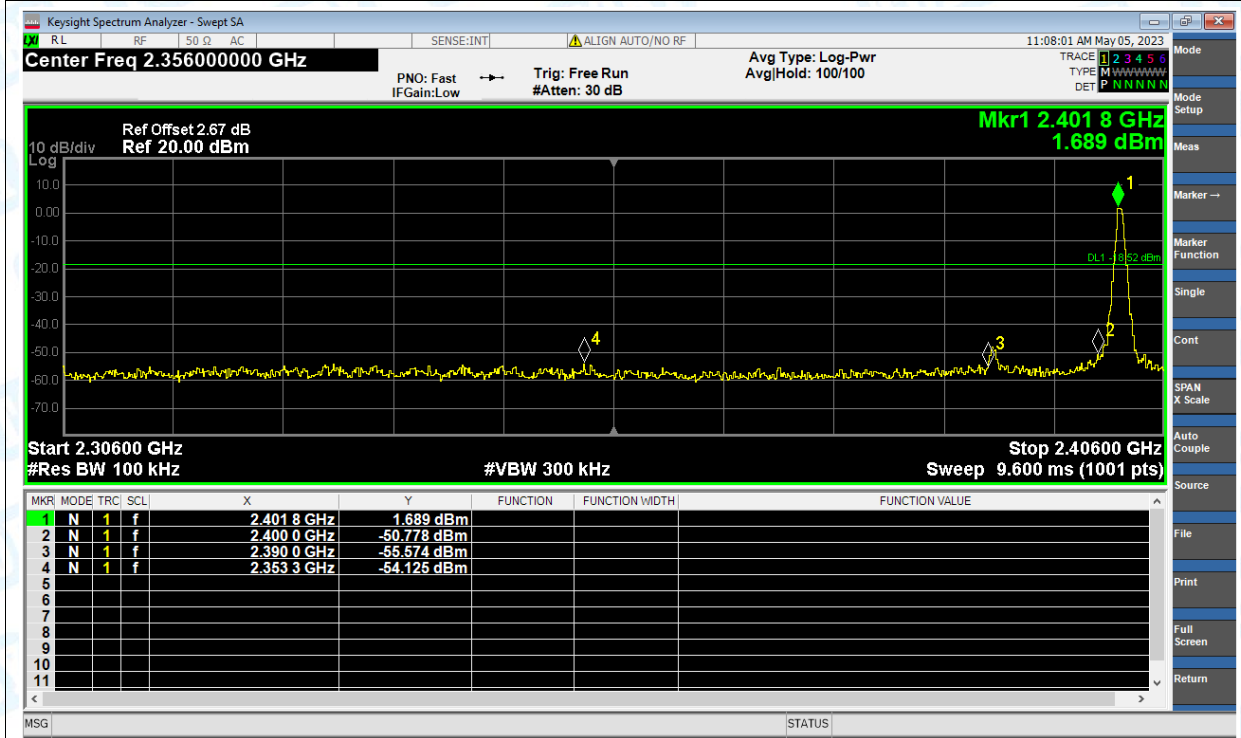
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-55.6	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-49.5	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-55.67	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-49.02	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-55.54	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-52.06	-20	Pass

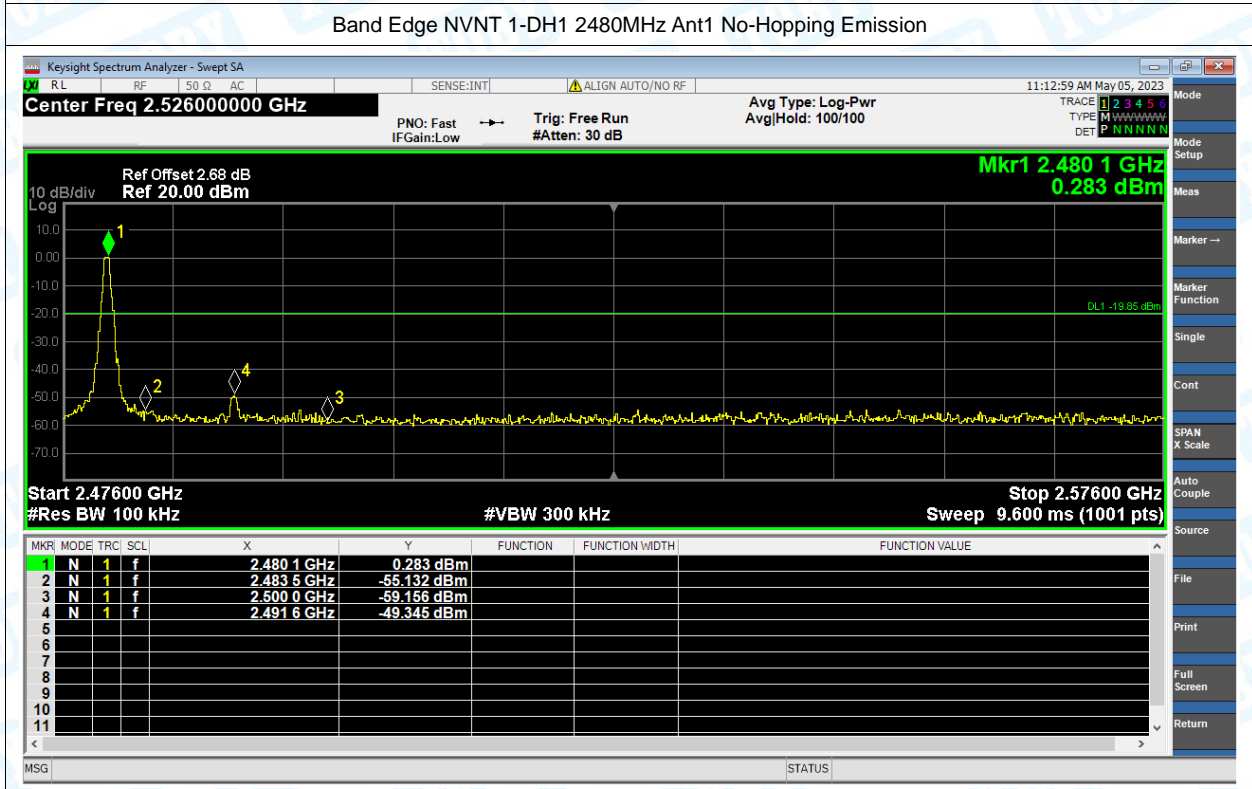
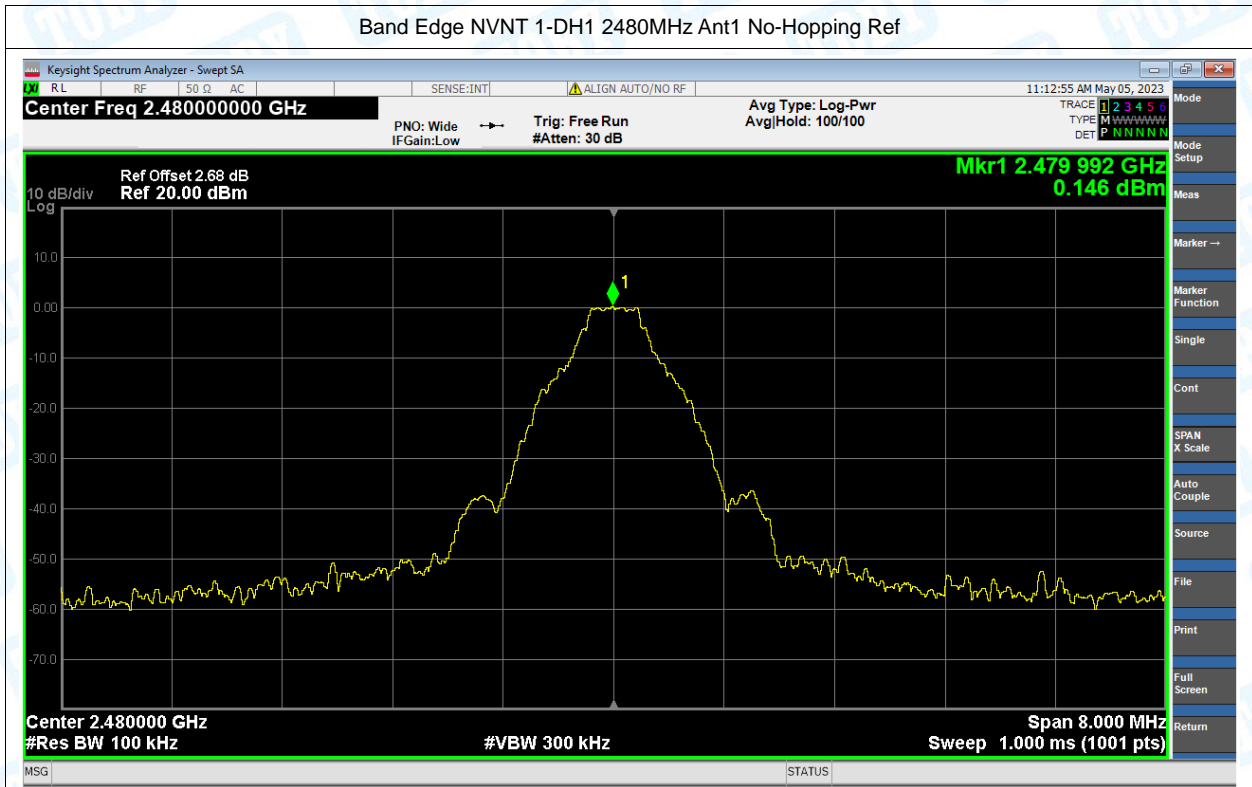
Test Graphs

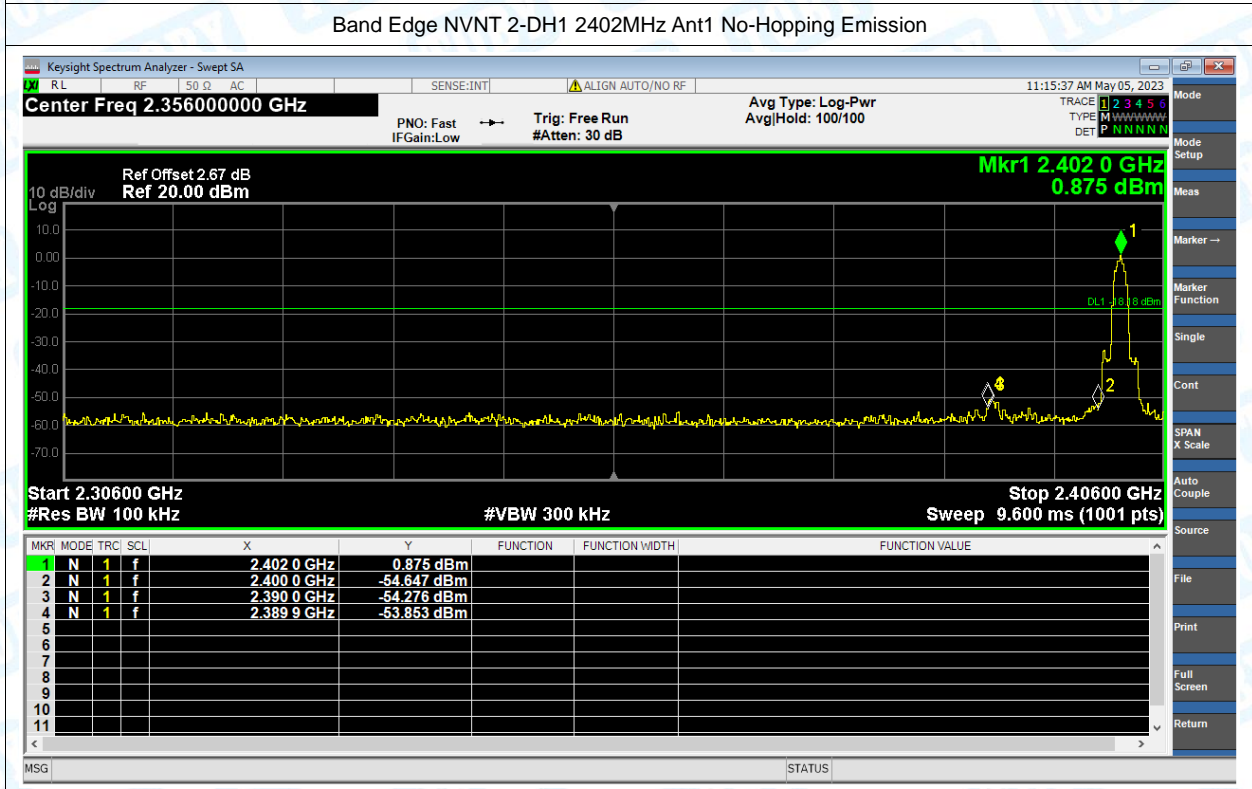
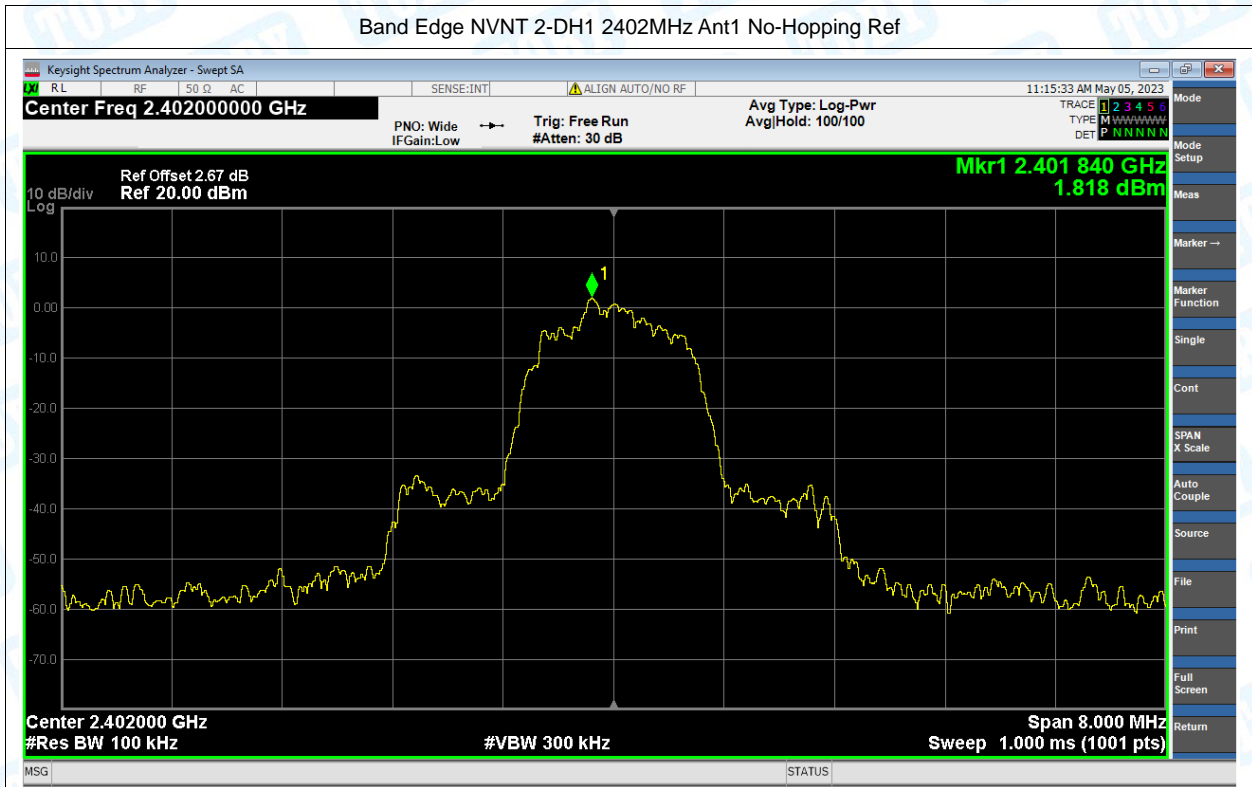
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref

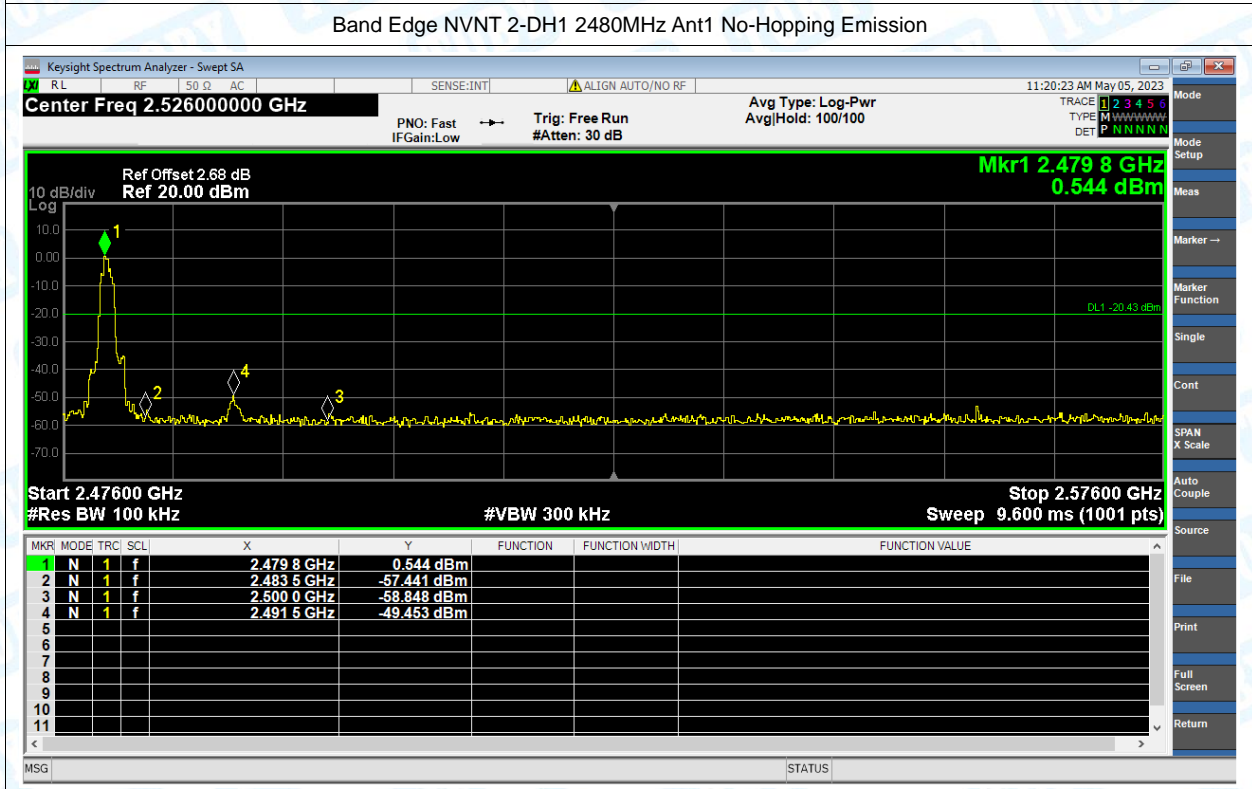
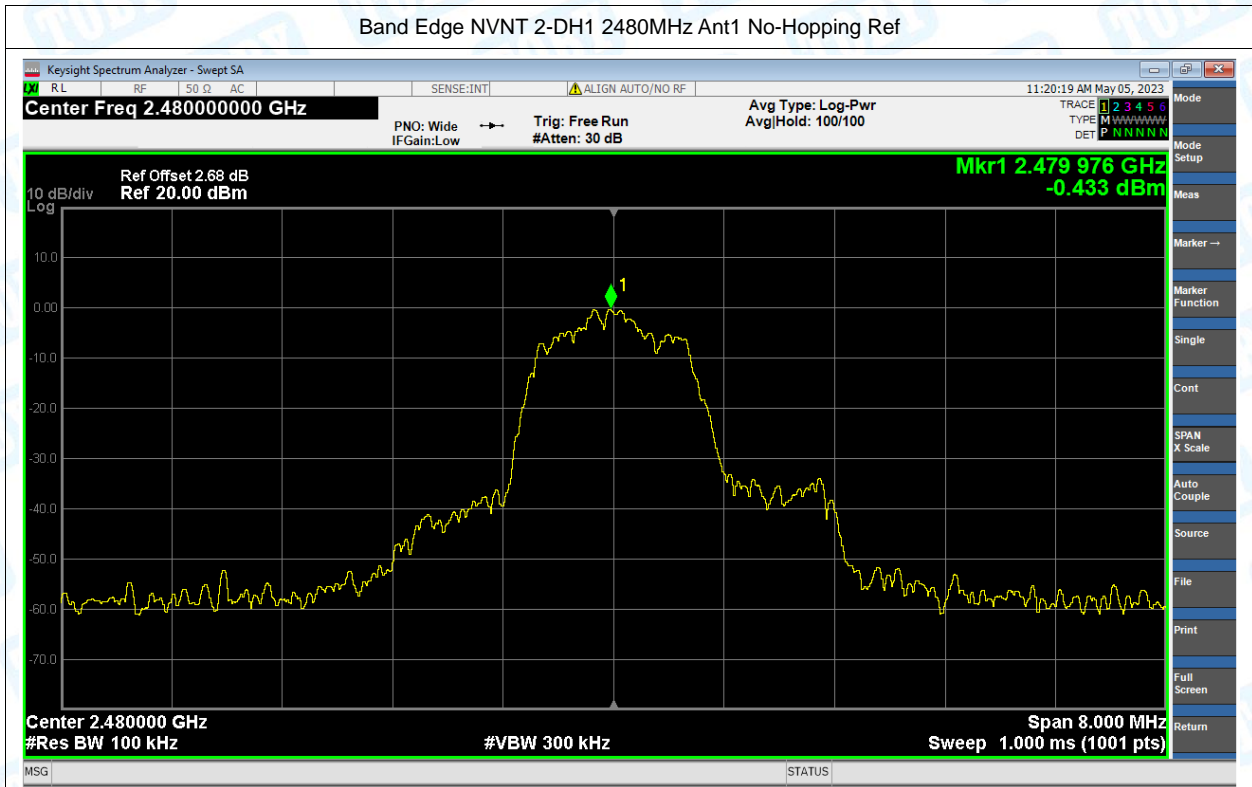


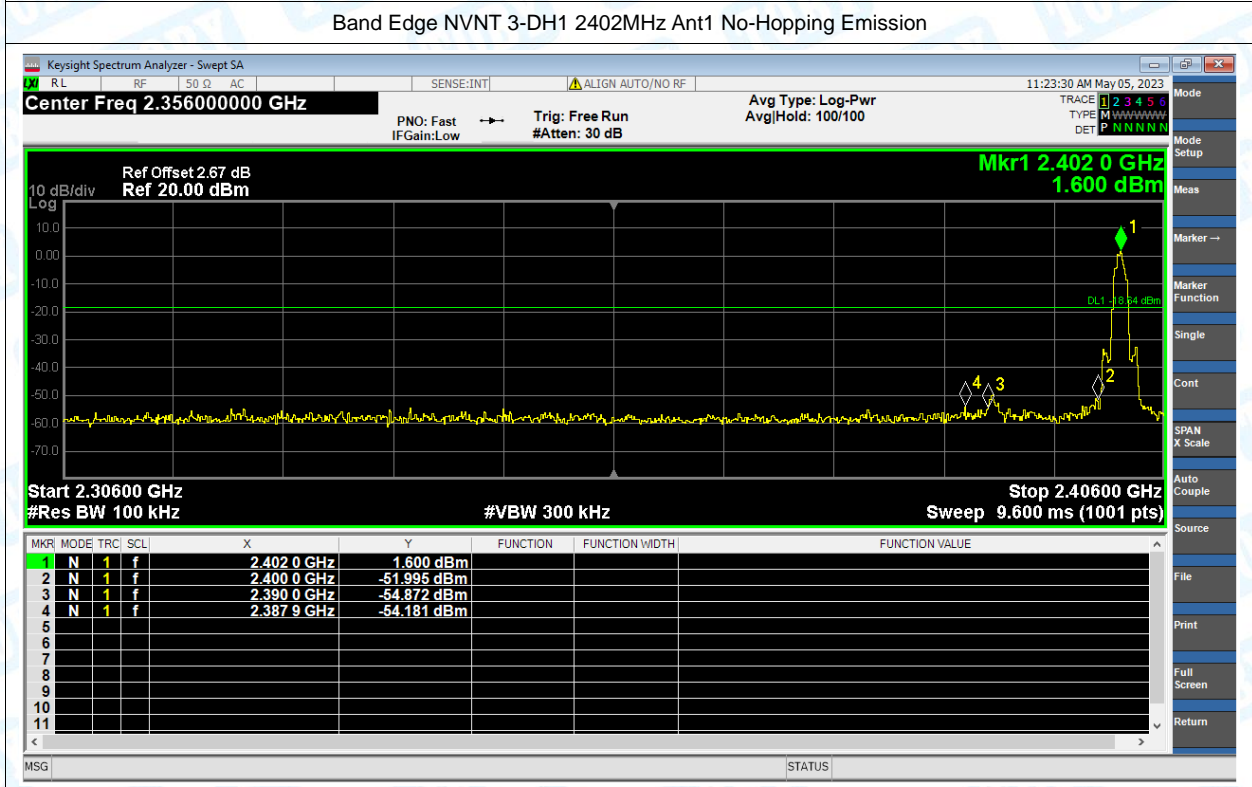
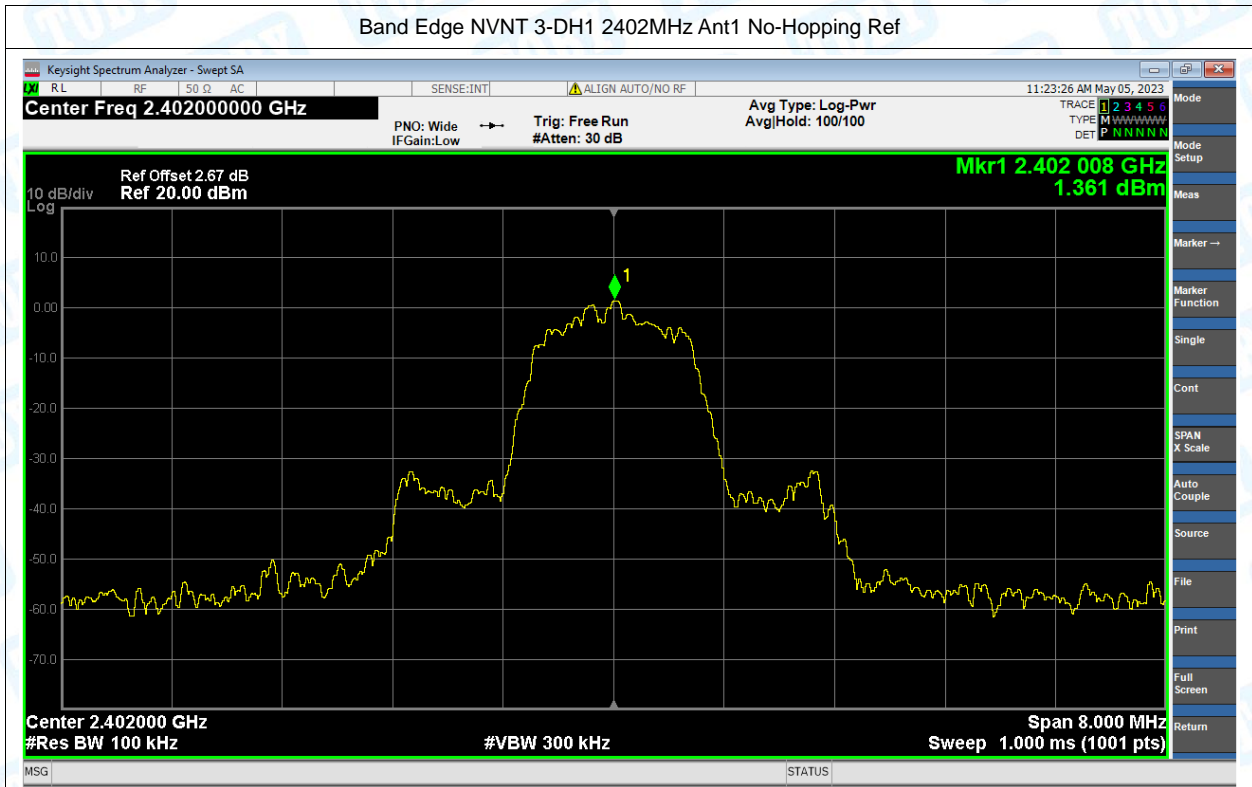
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission

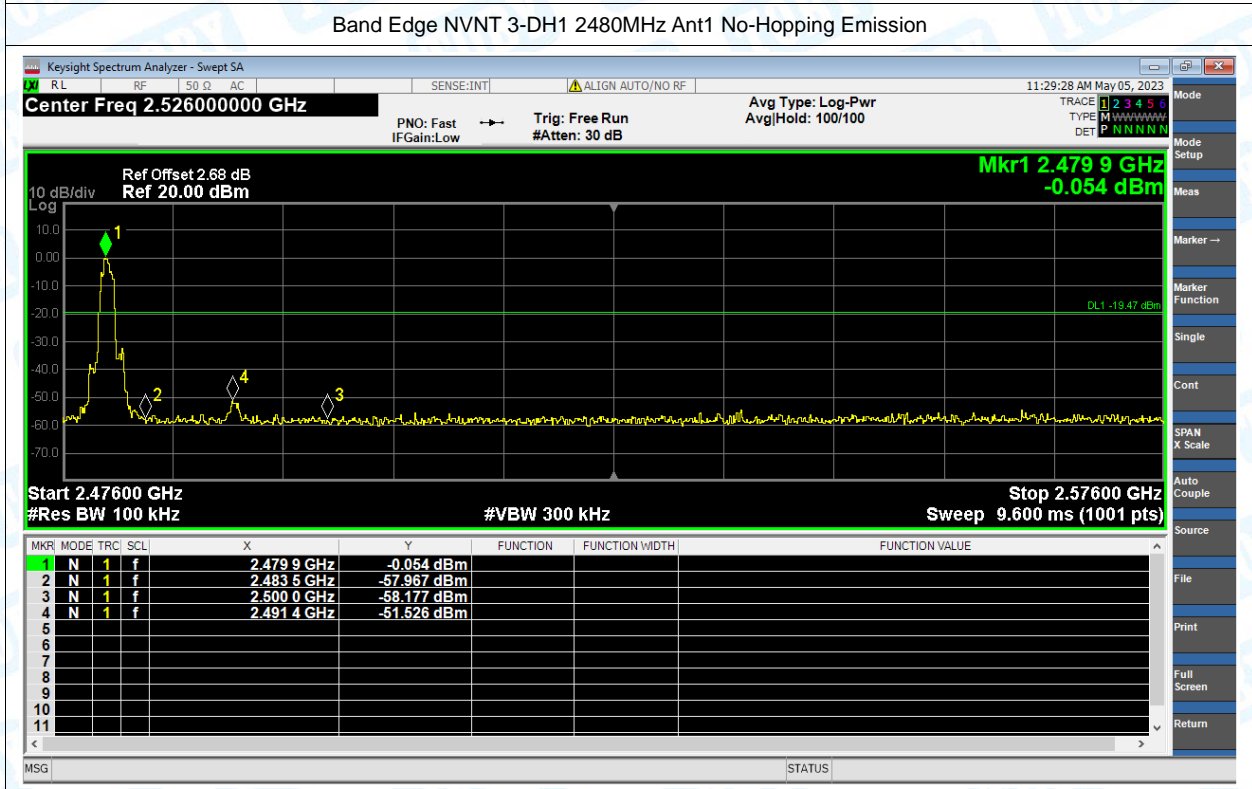
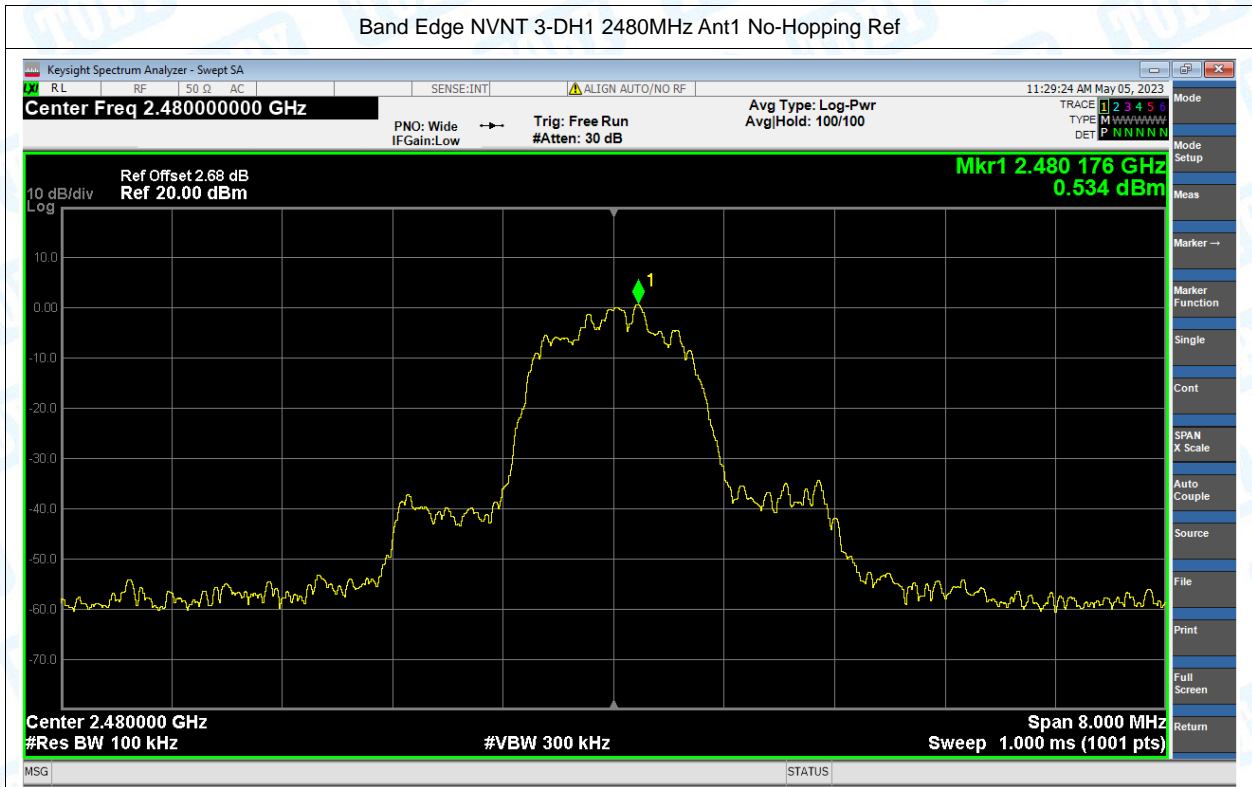










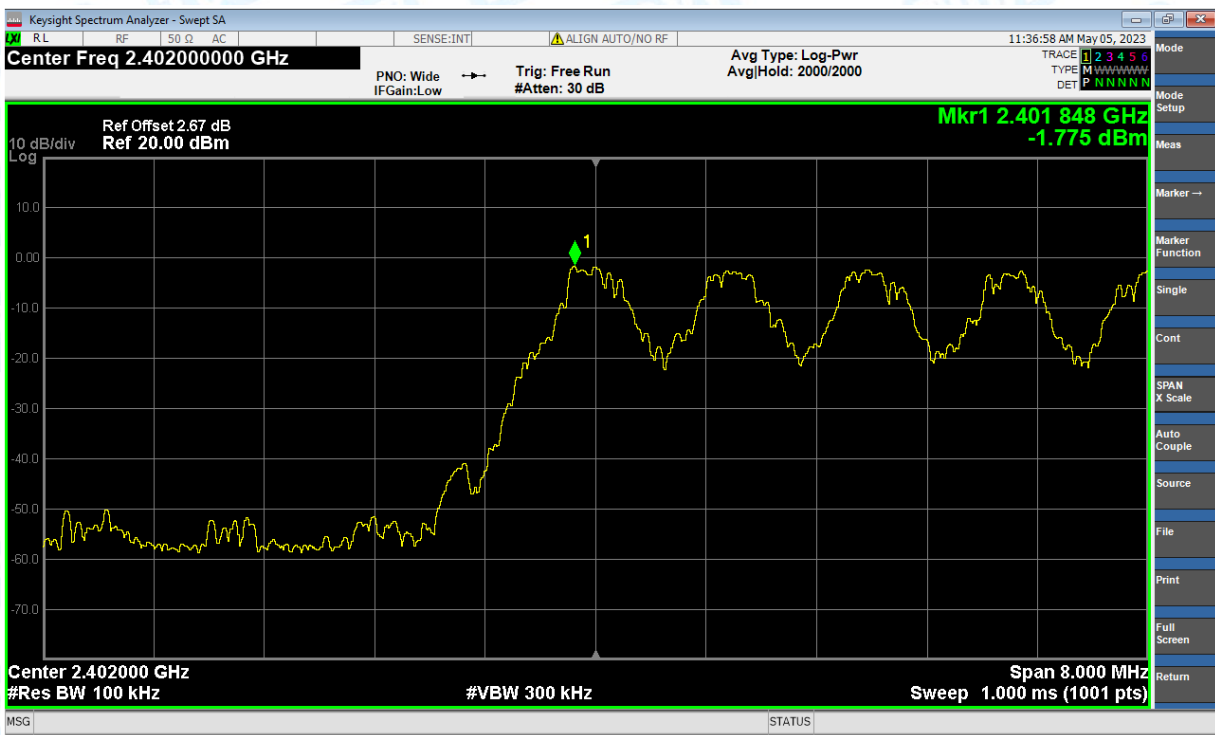


Band Edge(Hopping)

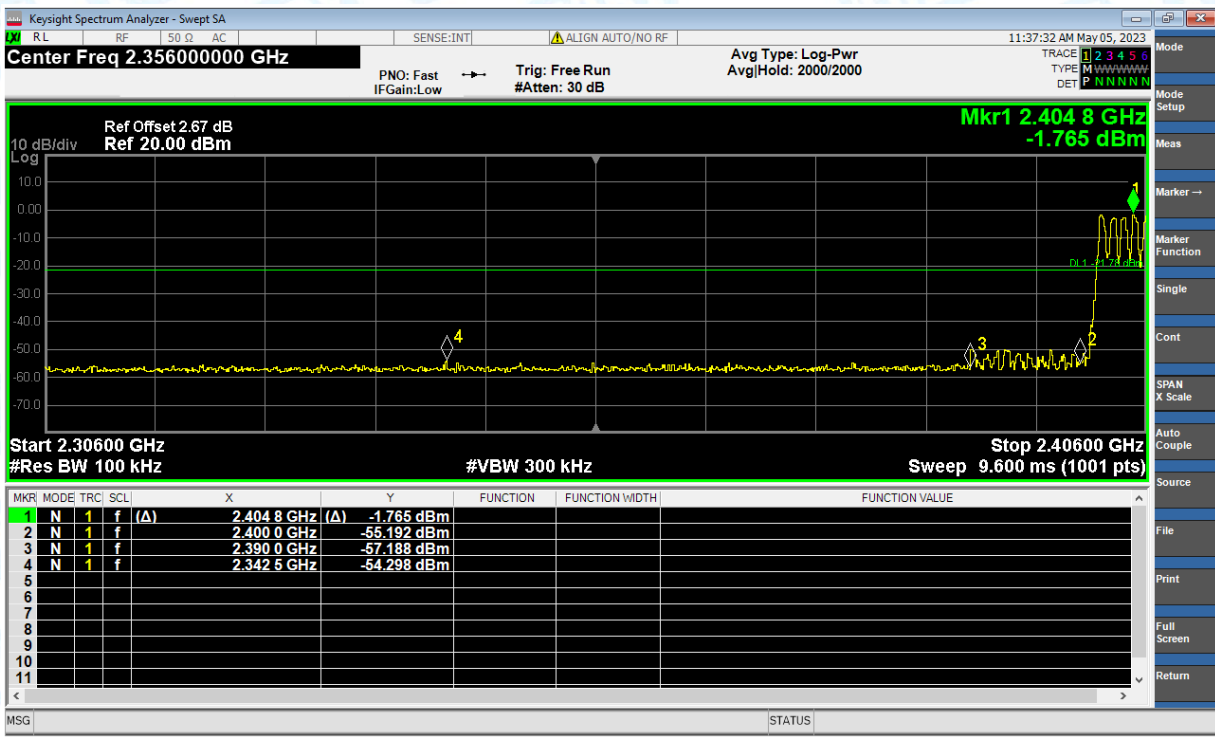
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-52.53	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-46.85	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-55.01	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-48.96	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-55.56	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-49.83	-20	Pass

Test Graphs

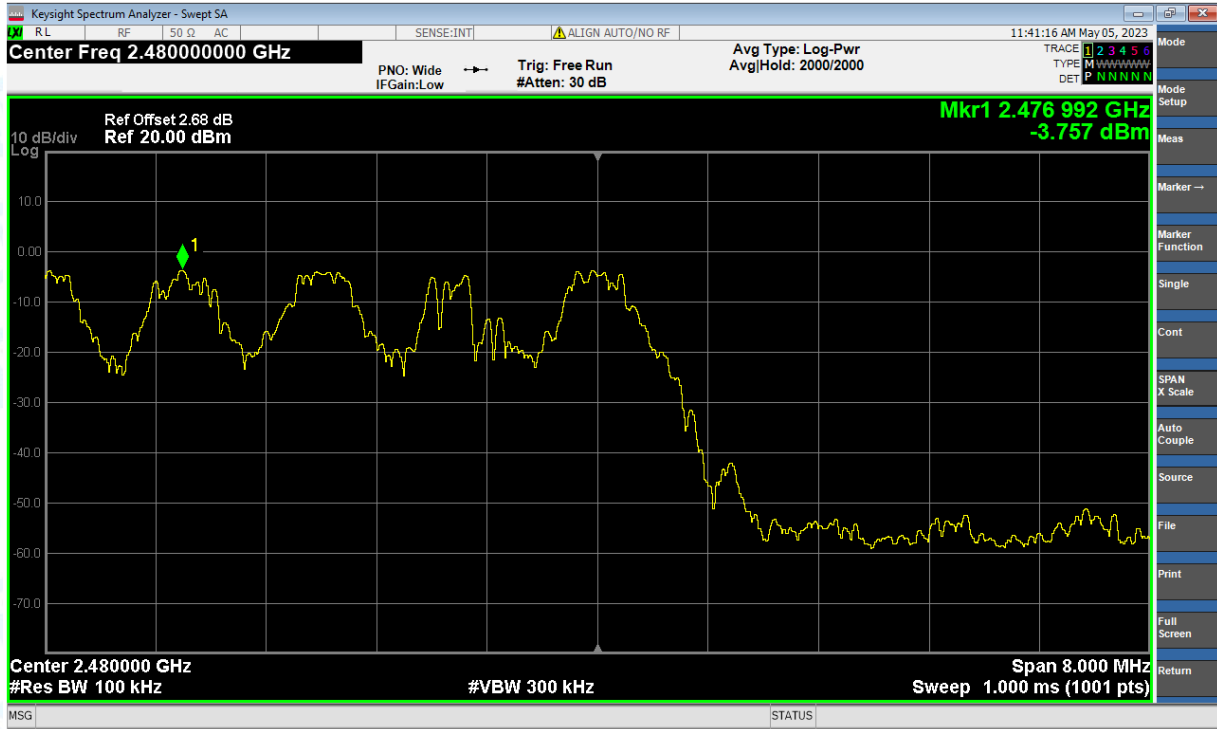
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Ref



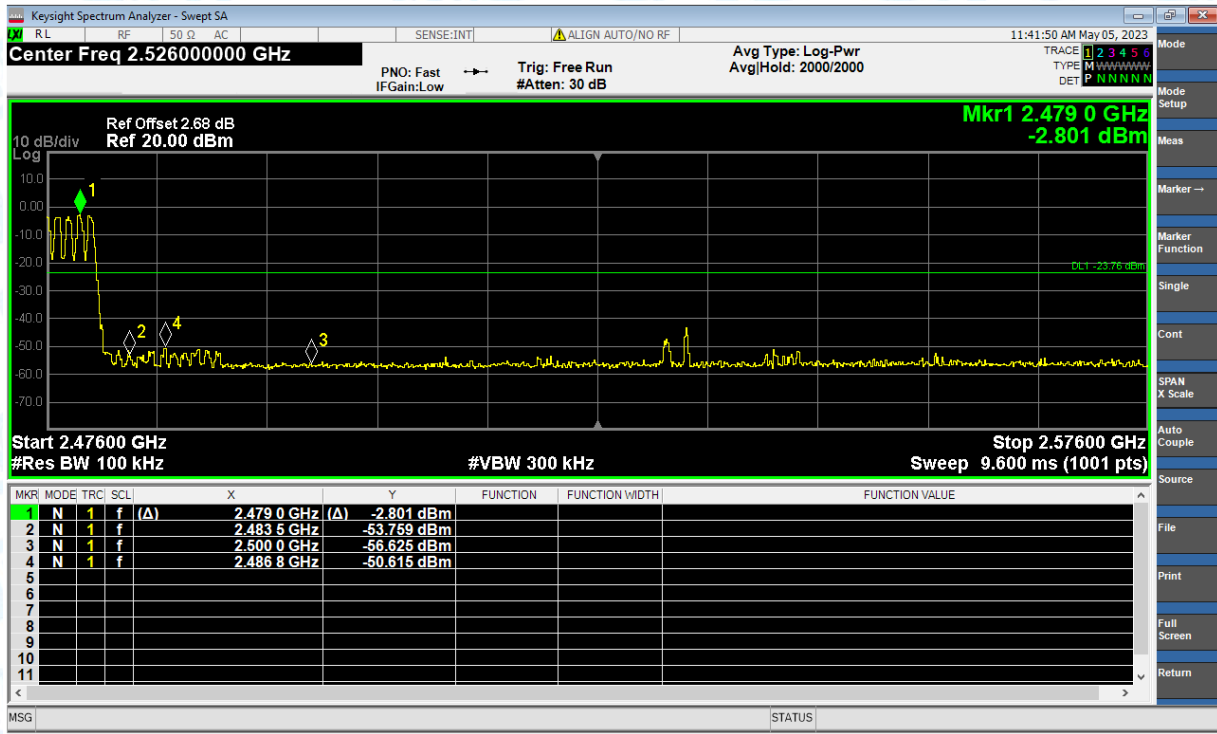
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission



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



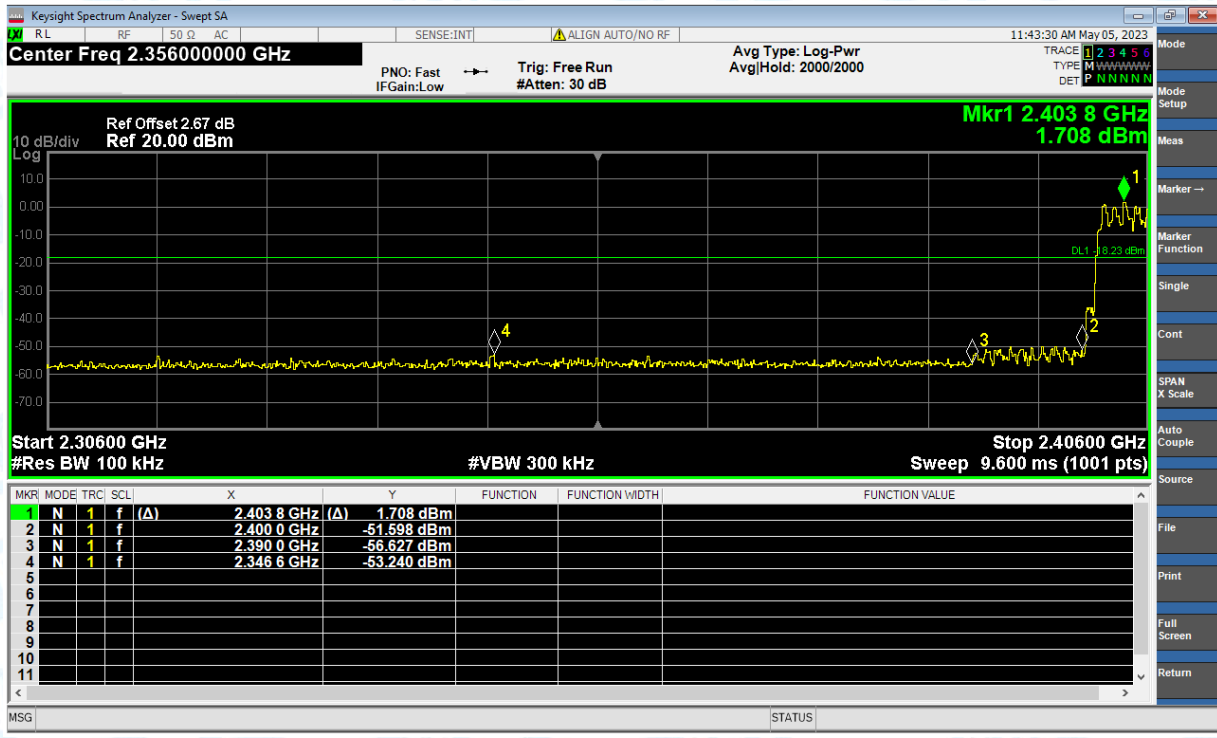
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission



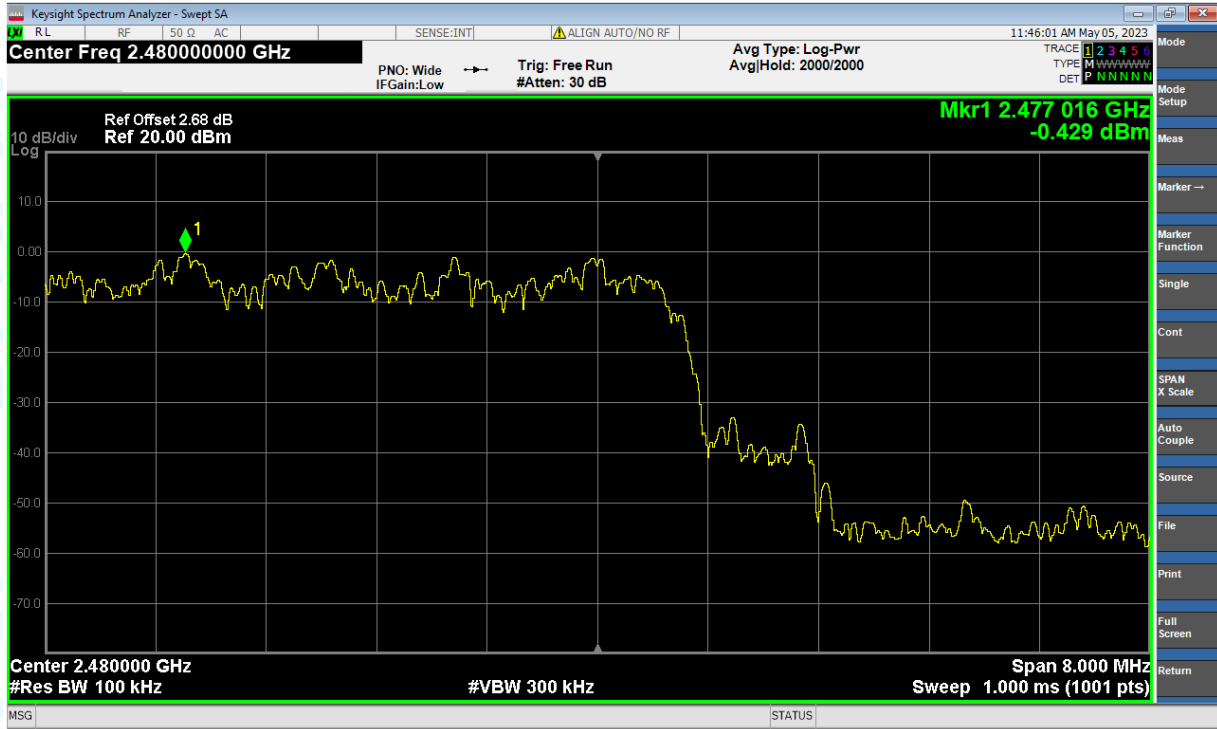
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Ref



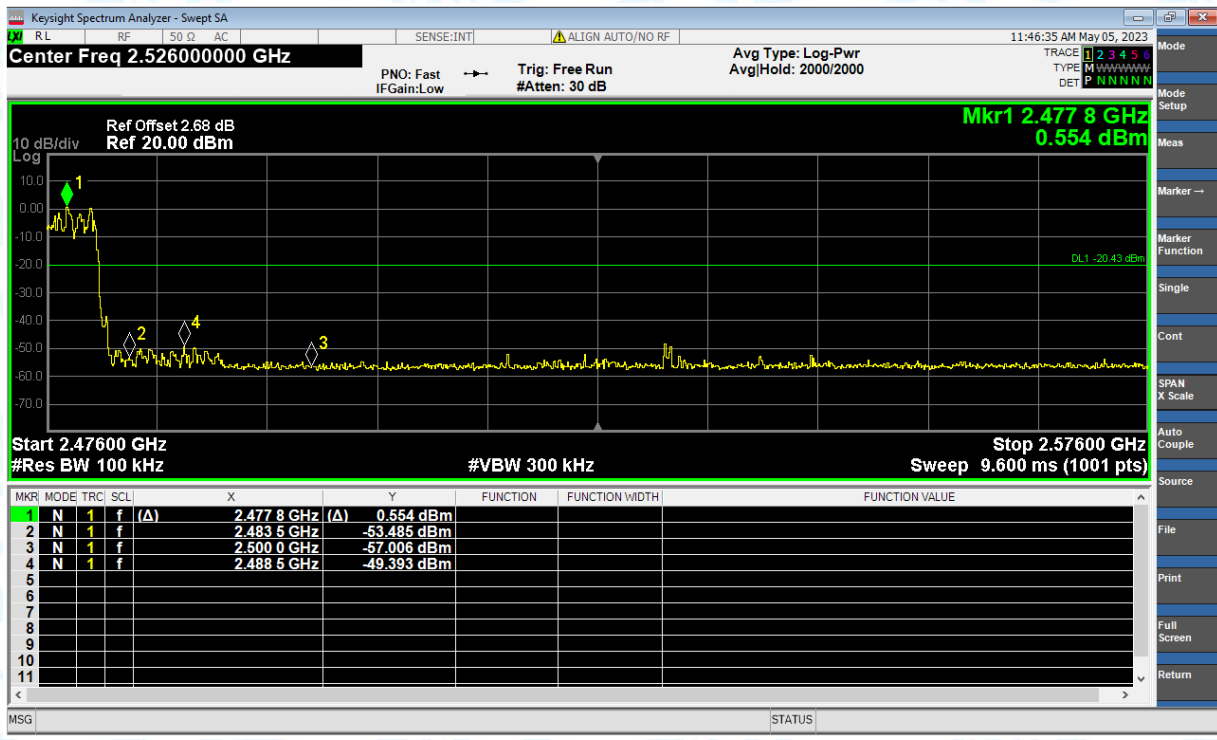
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission



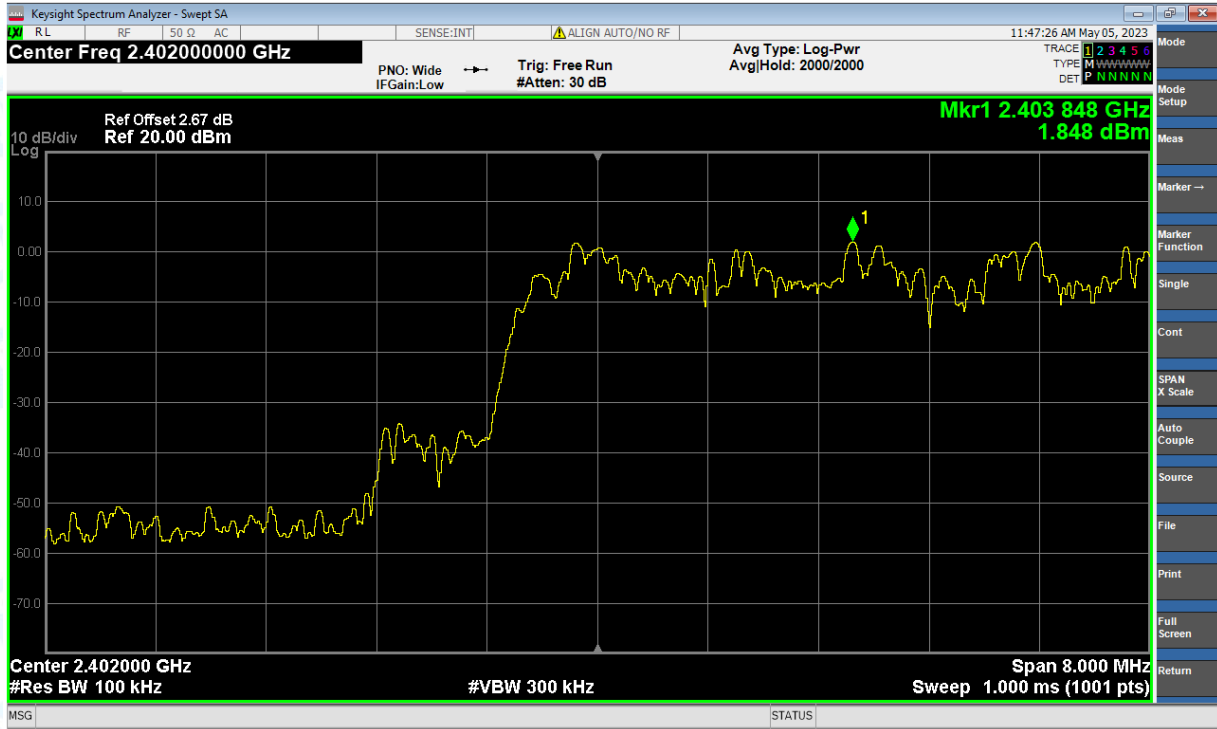
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Ref



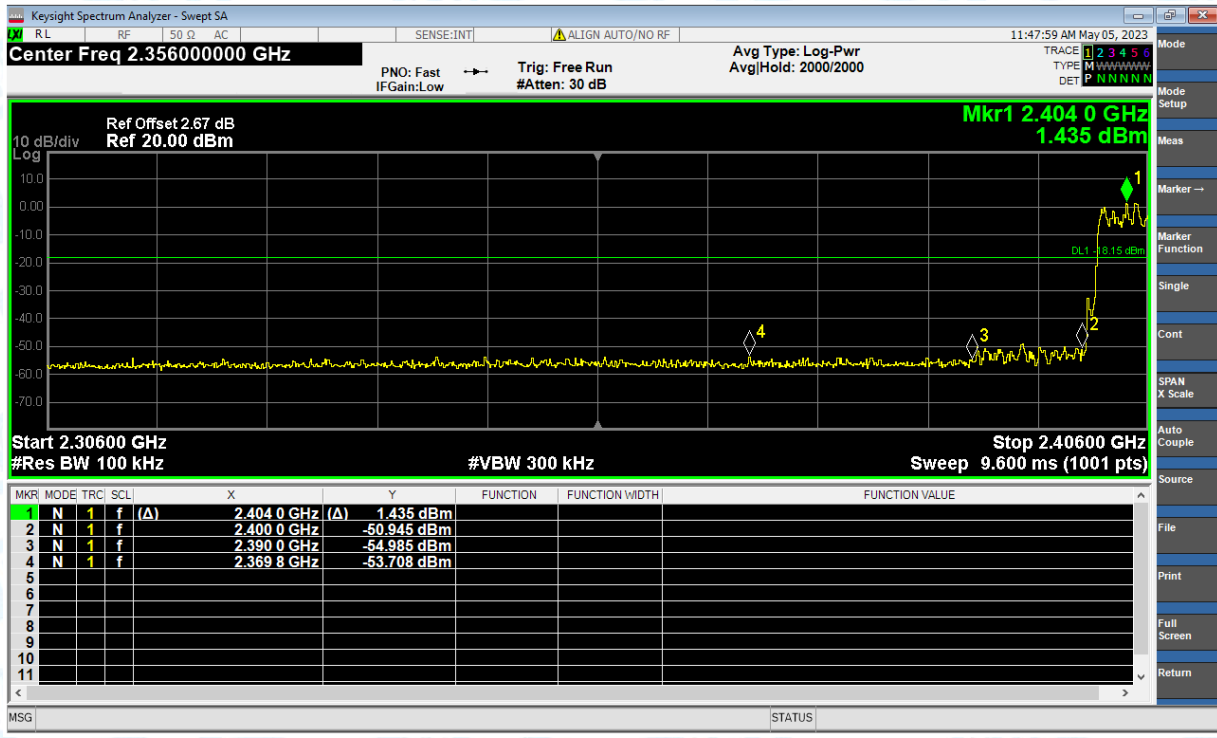
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission



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



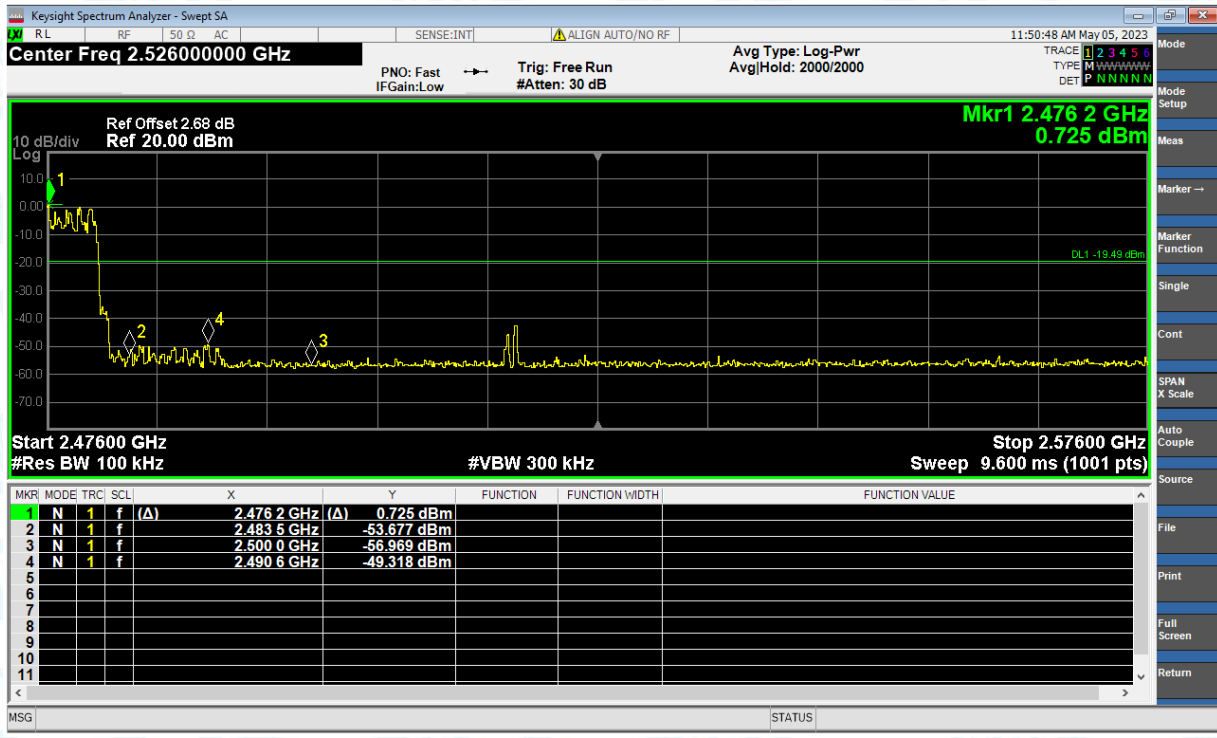
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Emission



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



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

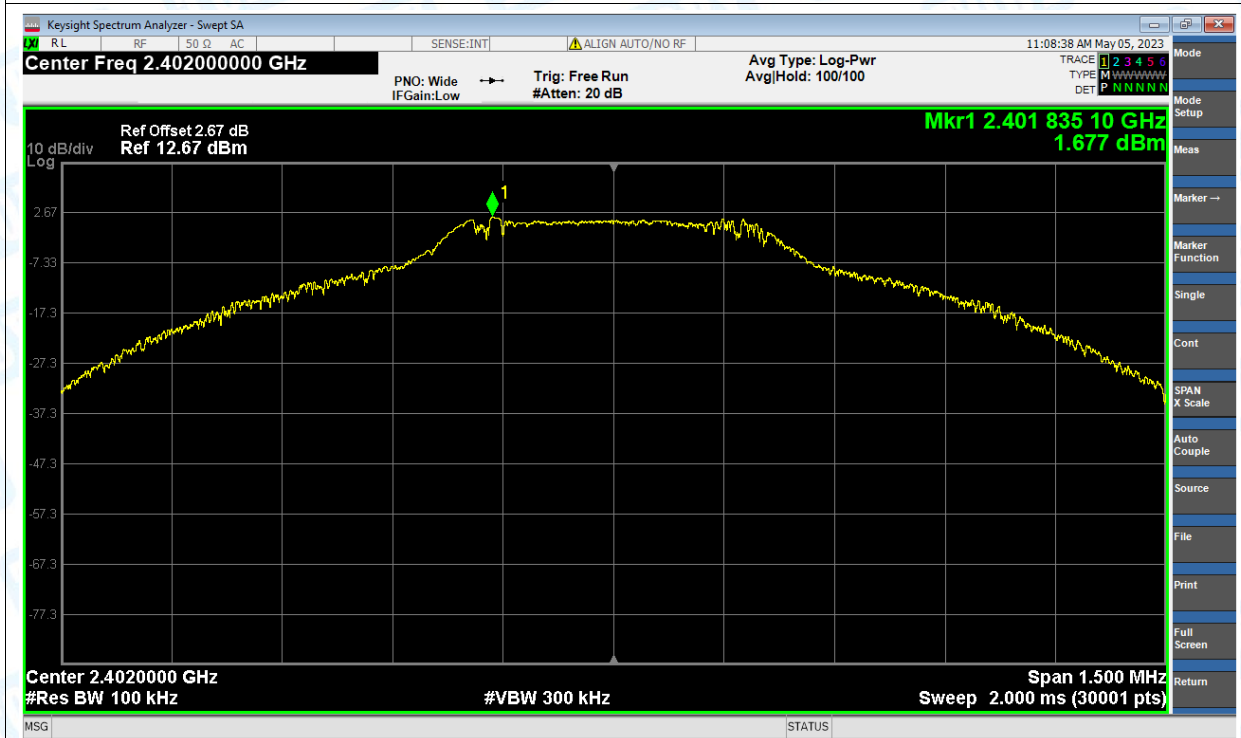


Conducted RF Spurious Emission

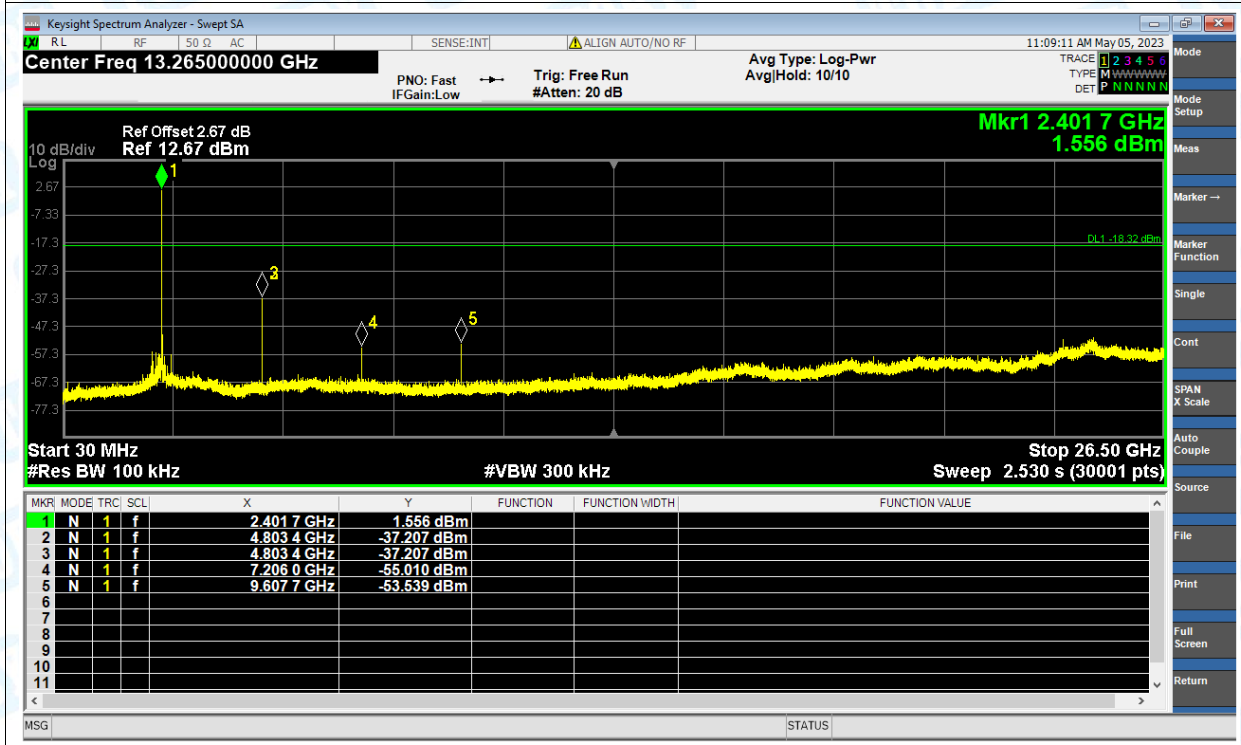
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-38.89	-20	Pass
NVNT	1-DH1	2441	Ant1	-37.95	-20	Pass
NVNT	1-DH1	2480	Ant1	-39.11	-20	Pass
NVNT	2-DH1	2402	Ant1	-42.4	-20	Pass
NVNT	2-DH1	2441	Ant1	-41.98	-20	Pass
NVNT	2-DH1	2480	Ant1	-42.43	-20	Pass
NVNT	3-DH1	2402	Ant1	-42.76	-20	Pass
NVNT	3-DH1	2441	Ant1	-42.09	-20	Pass
NVNT	3-DH1	2480	Ant1	-37.52	-20	Pass

Test Graphs

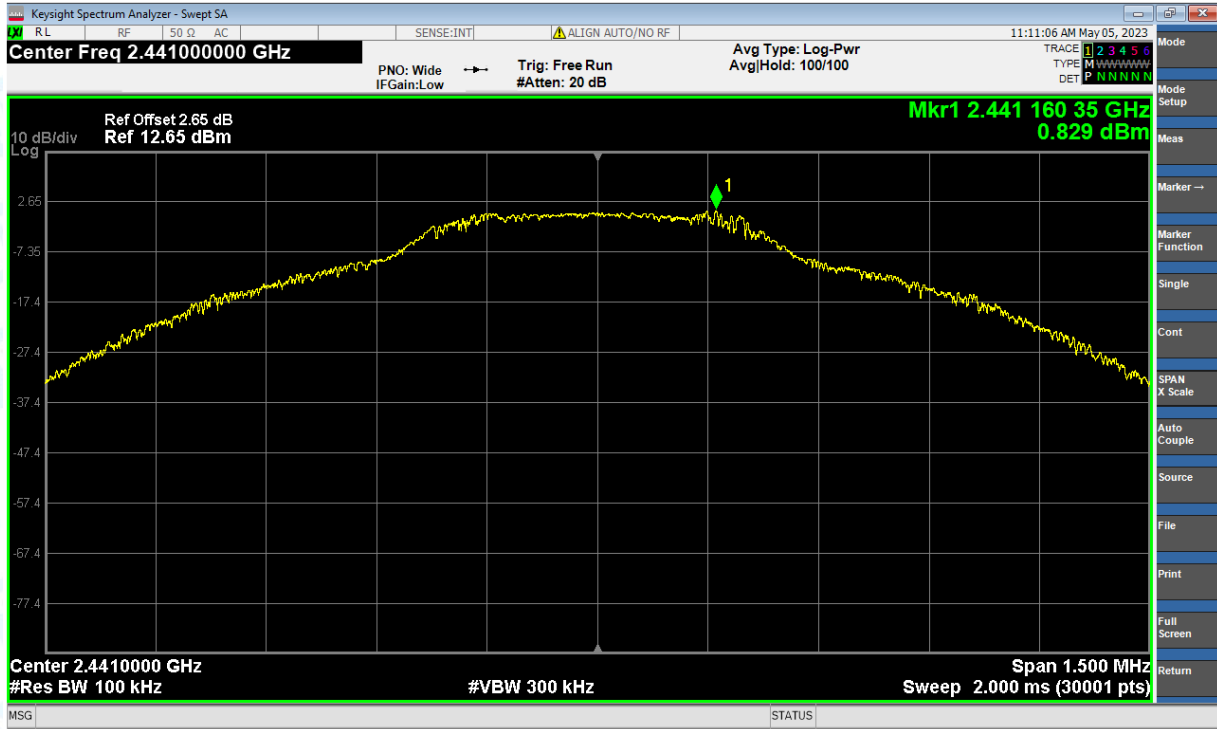
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



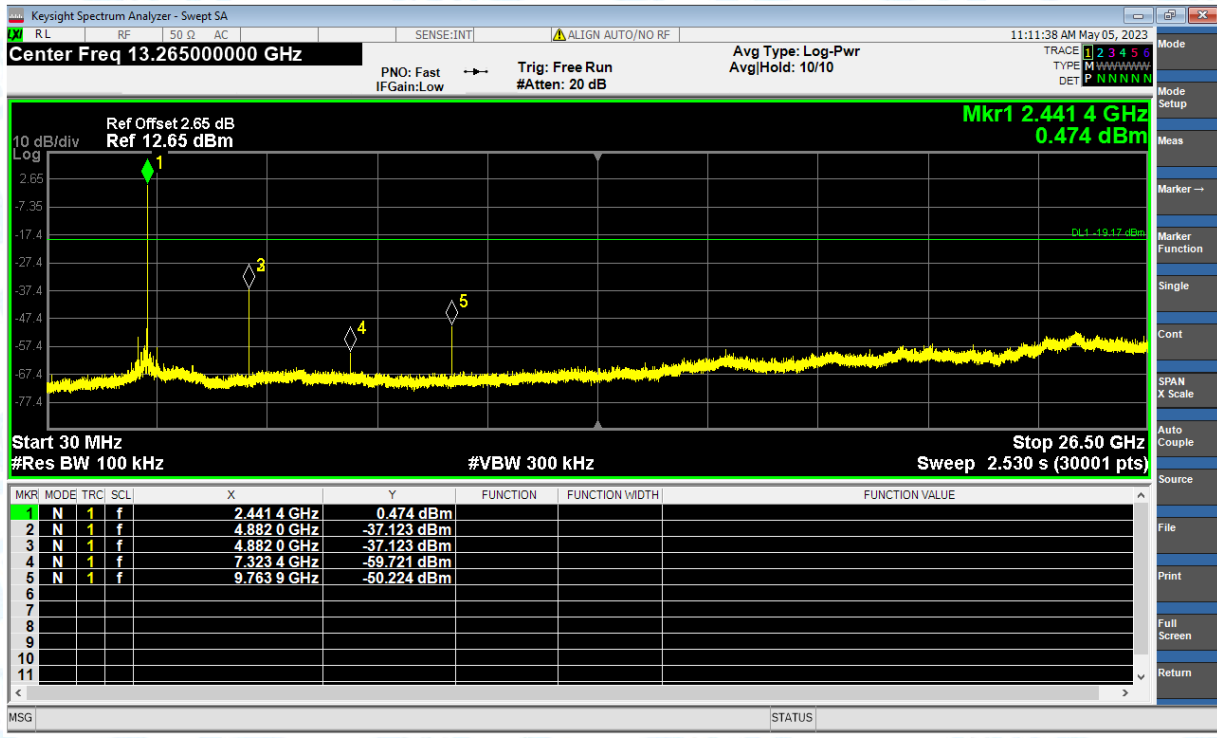
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



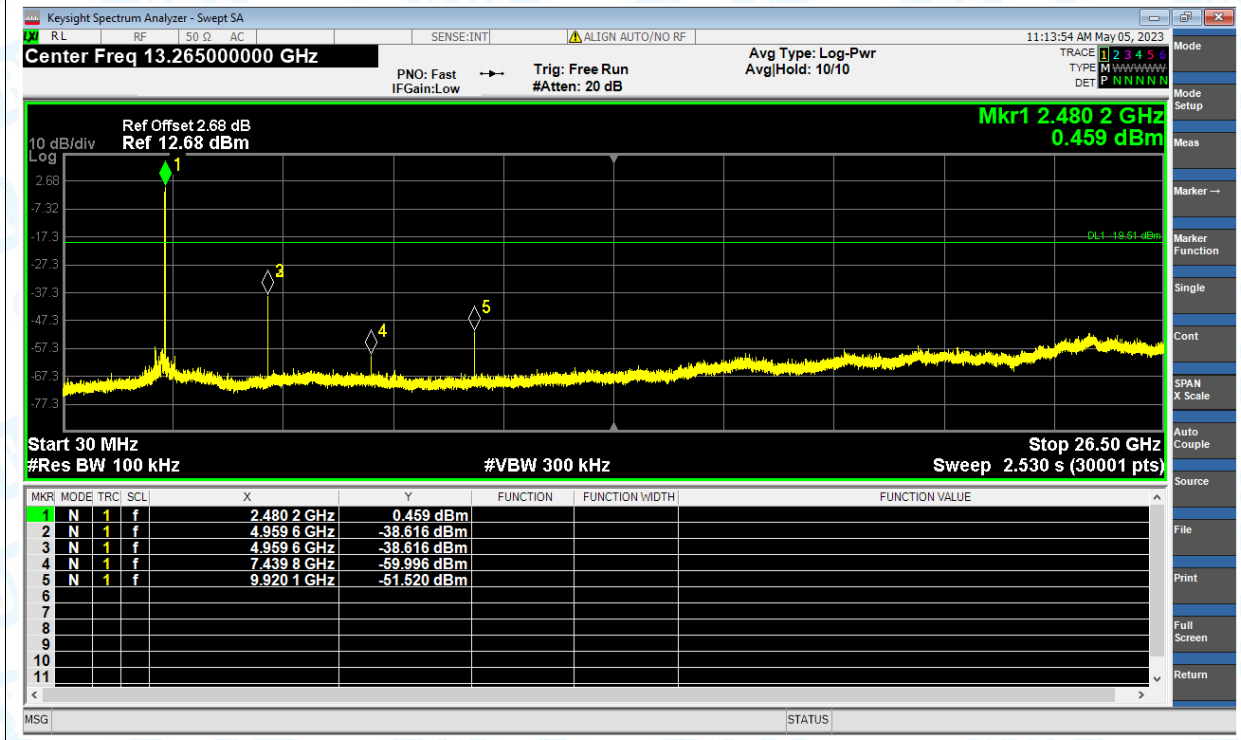
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



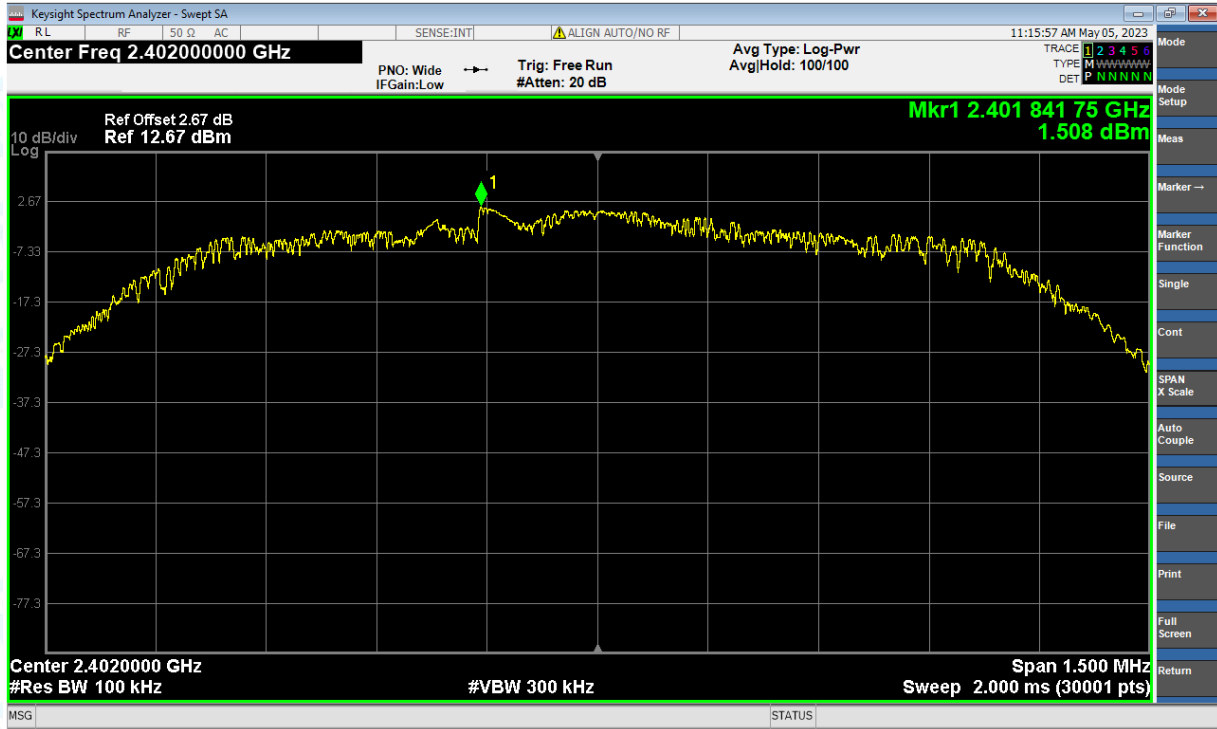
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



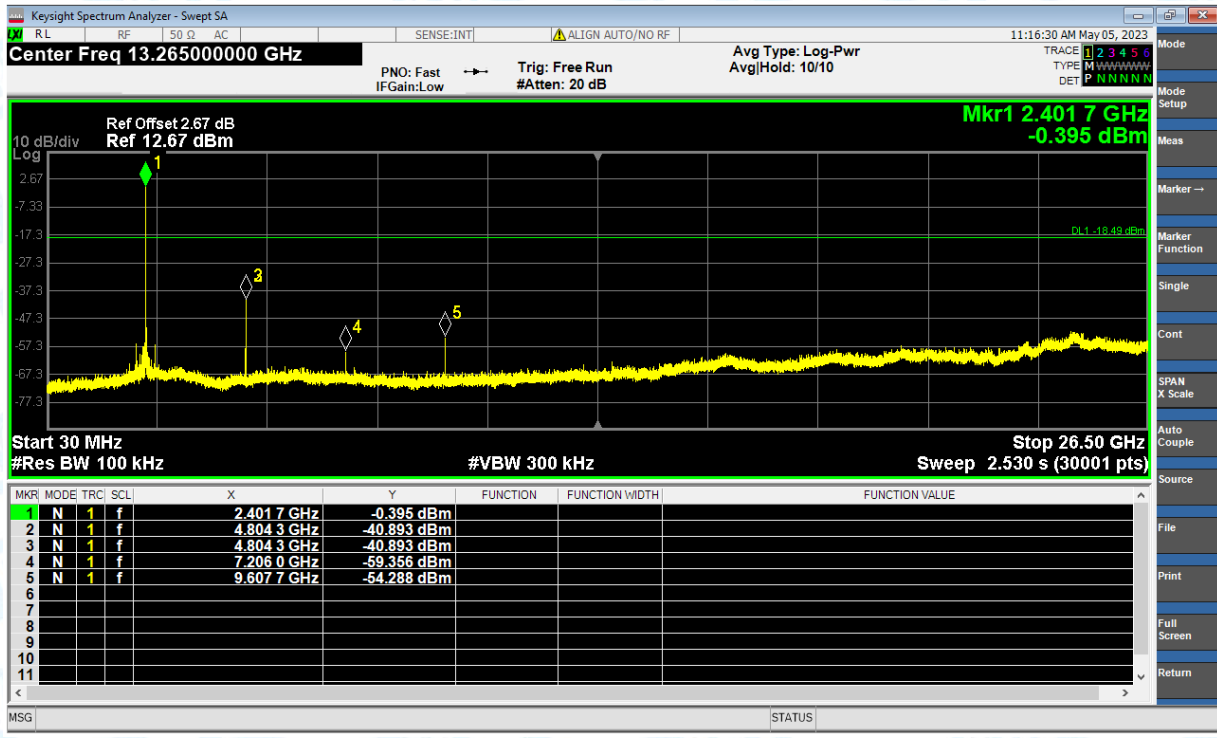
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



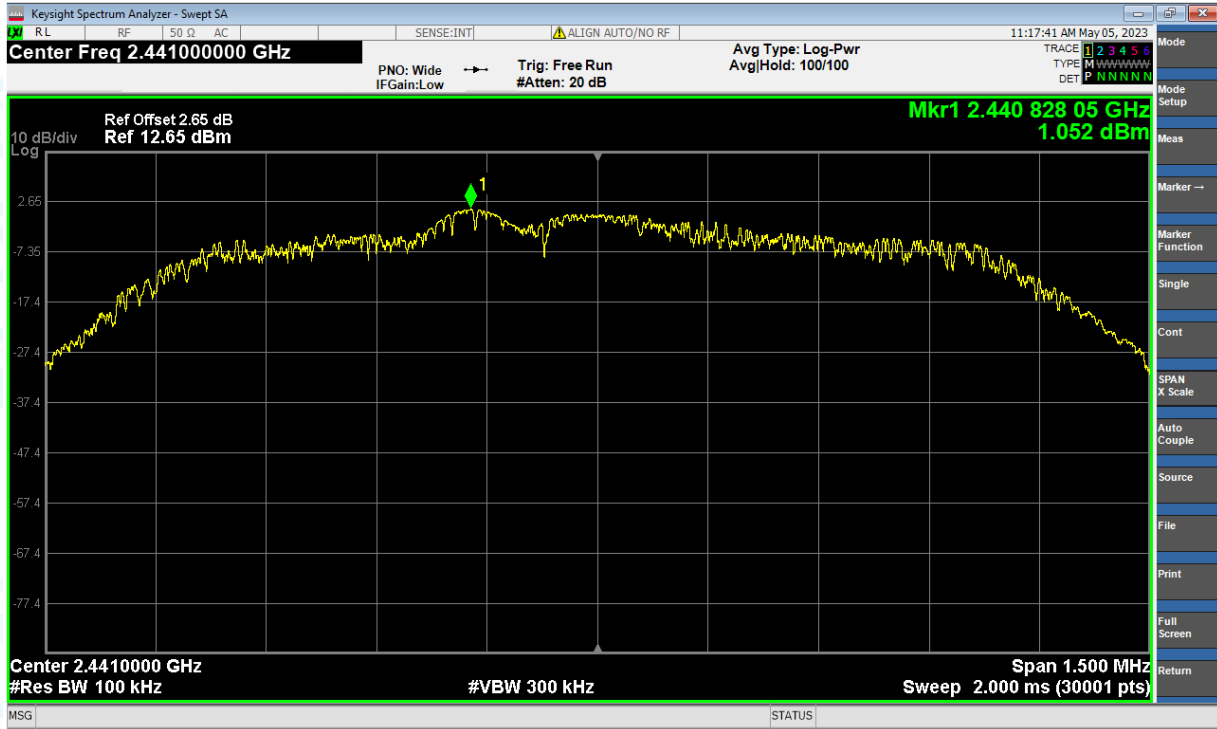
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



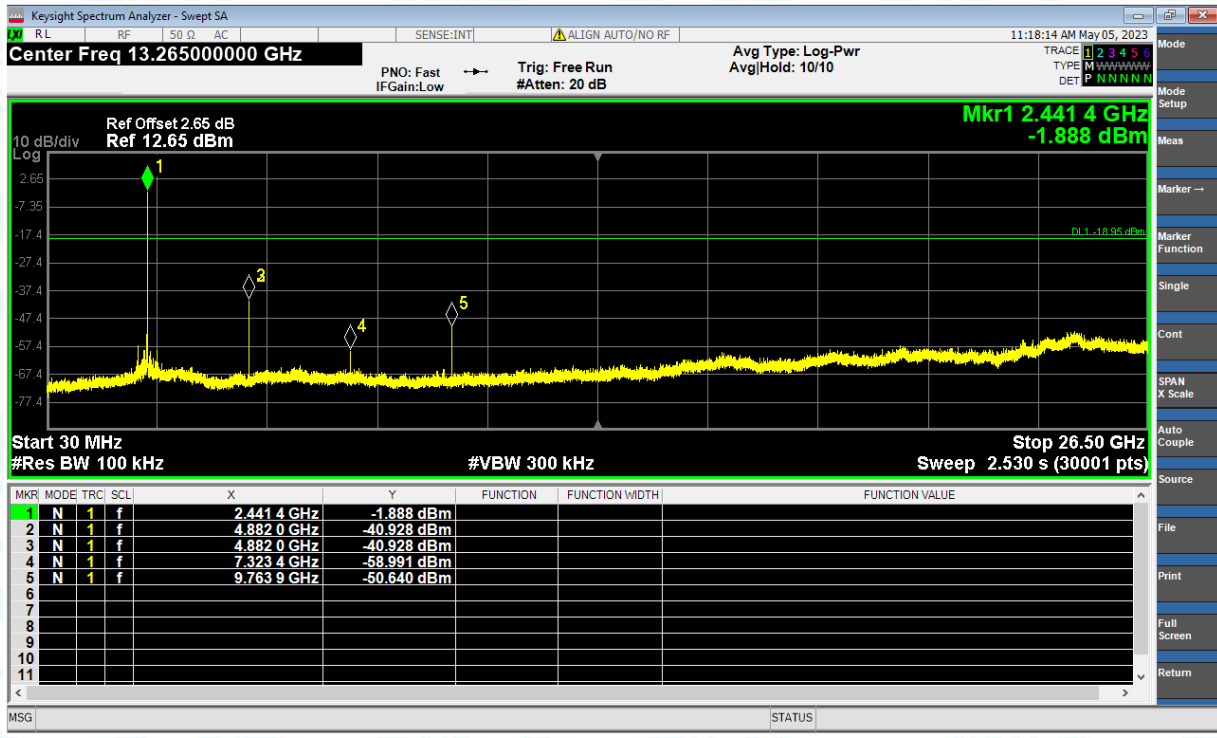
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



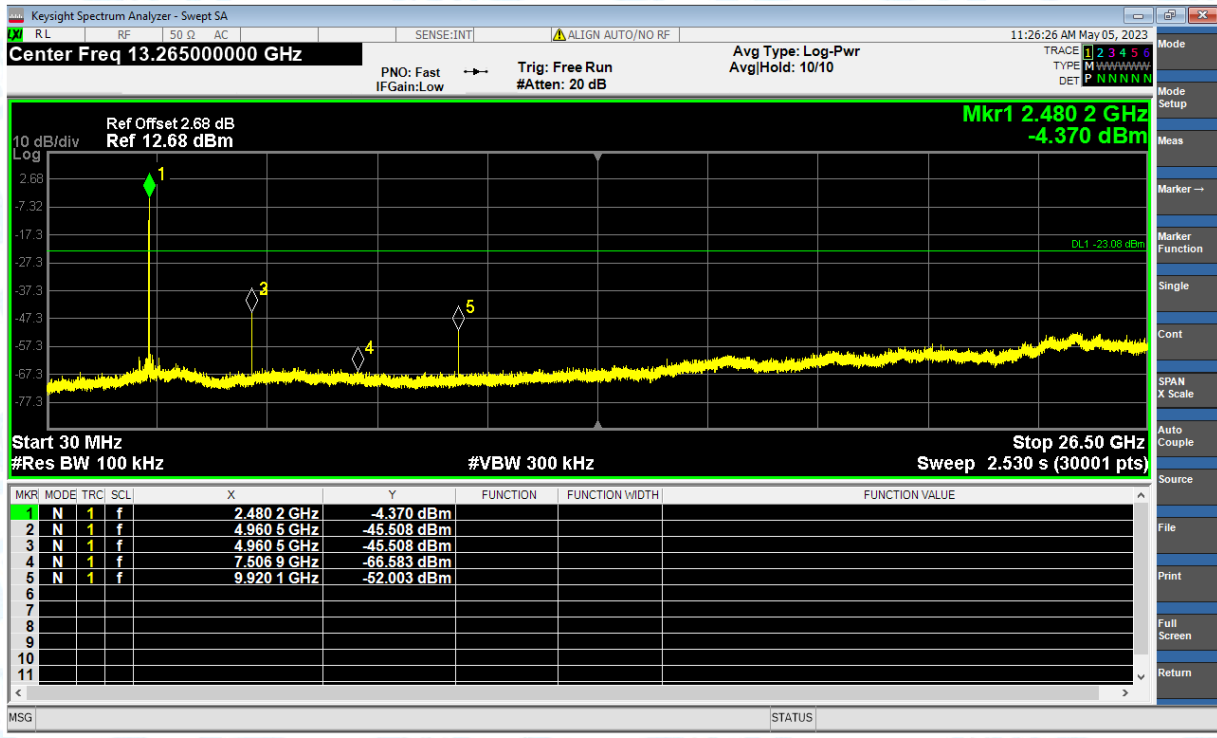
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



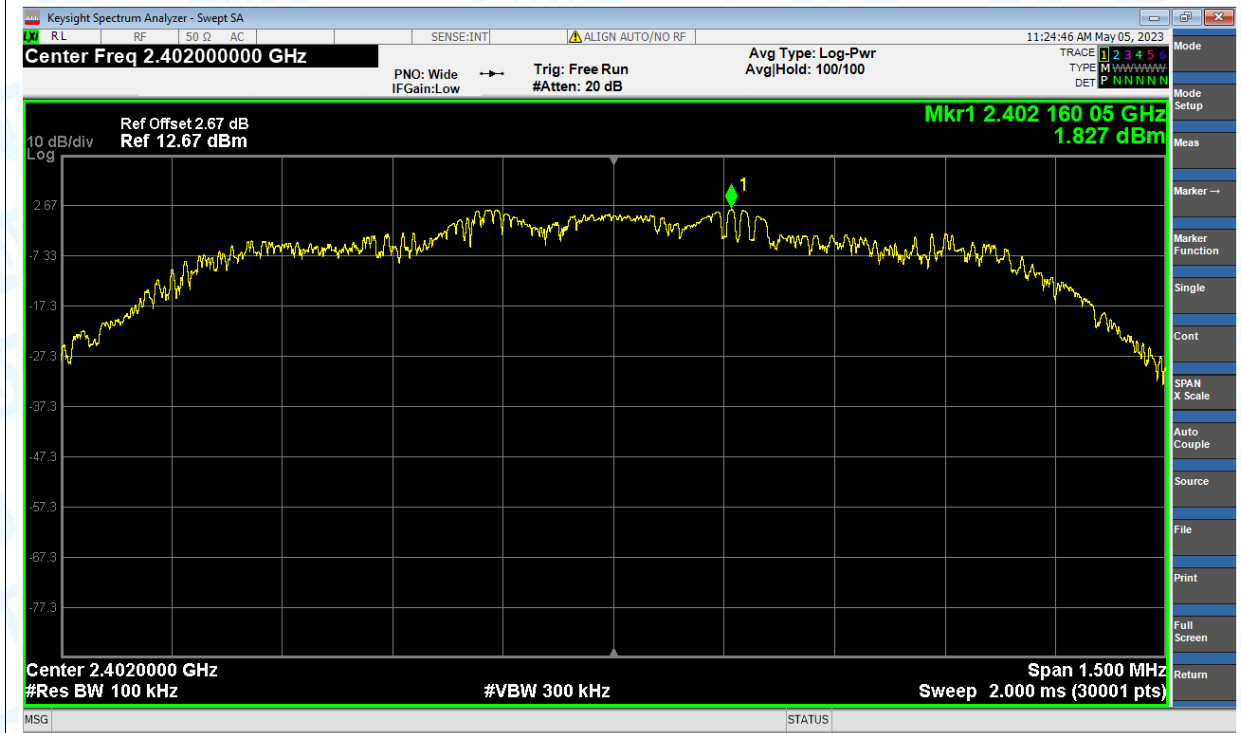
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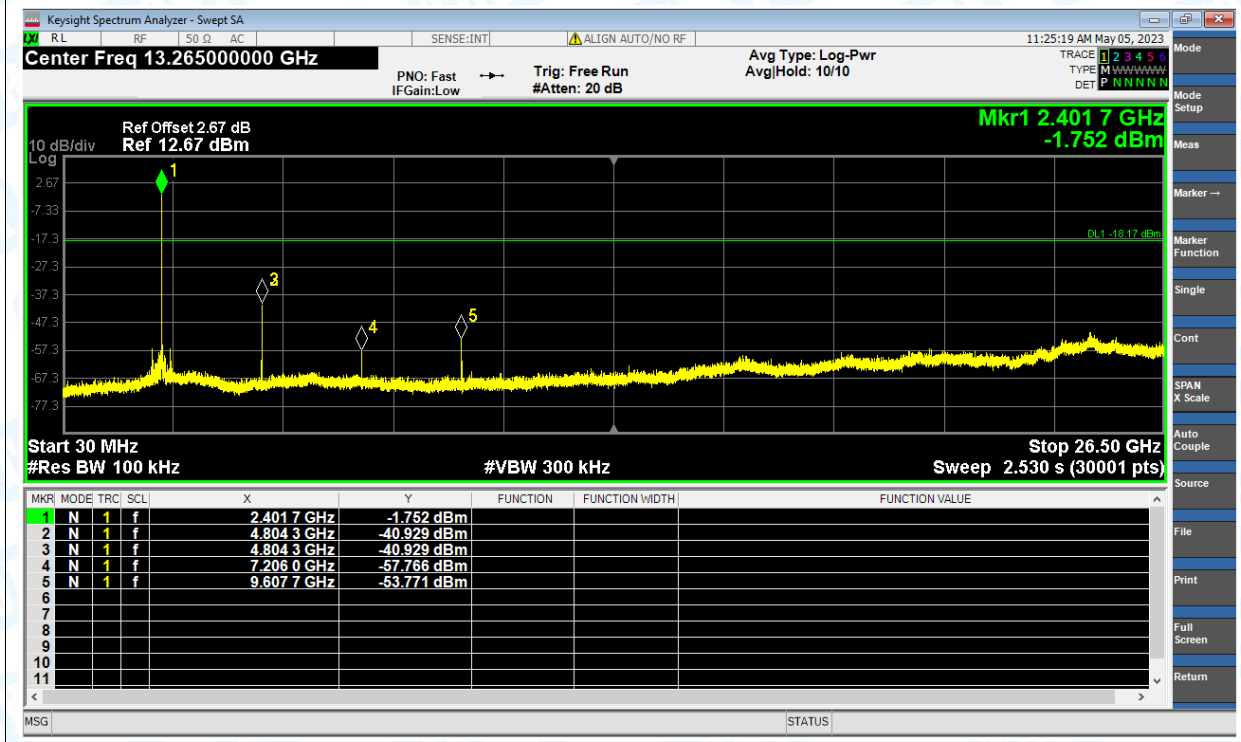
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



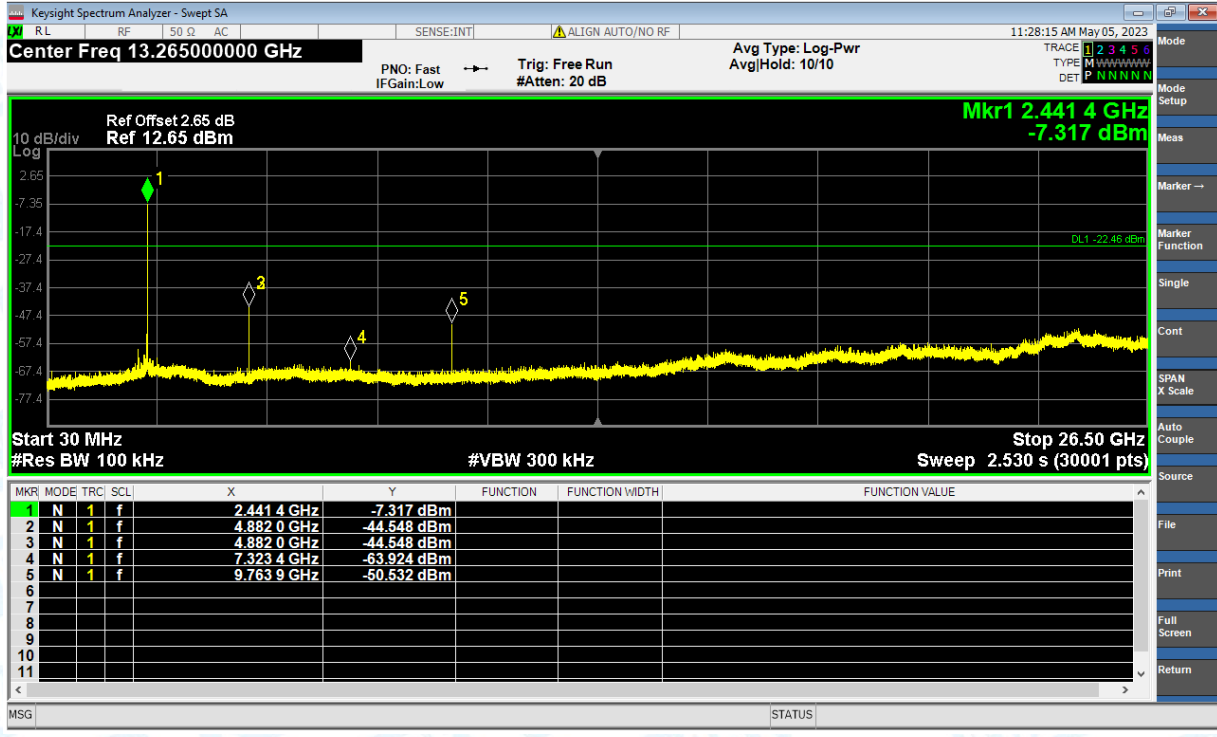
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Ref



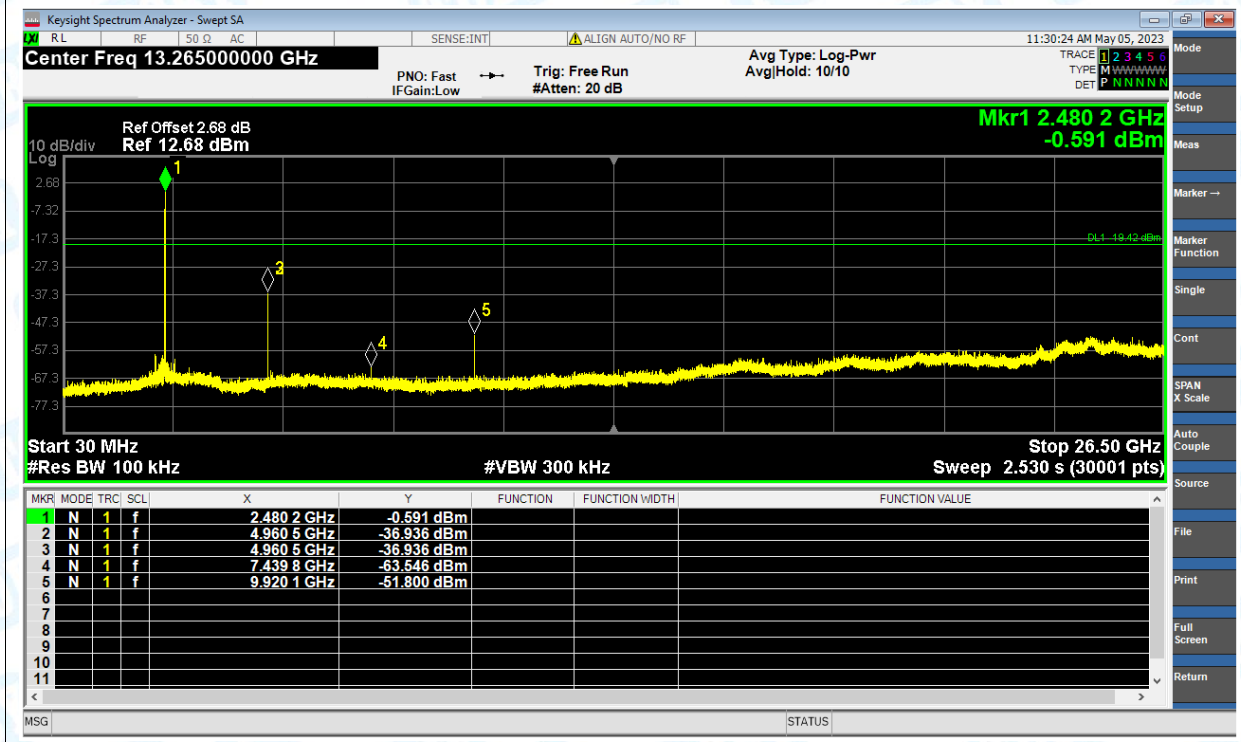
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

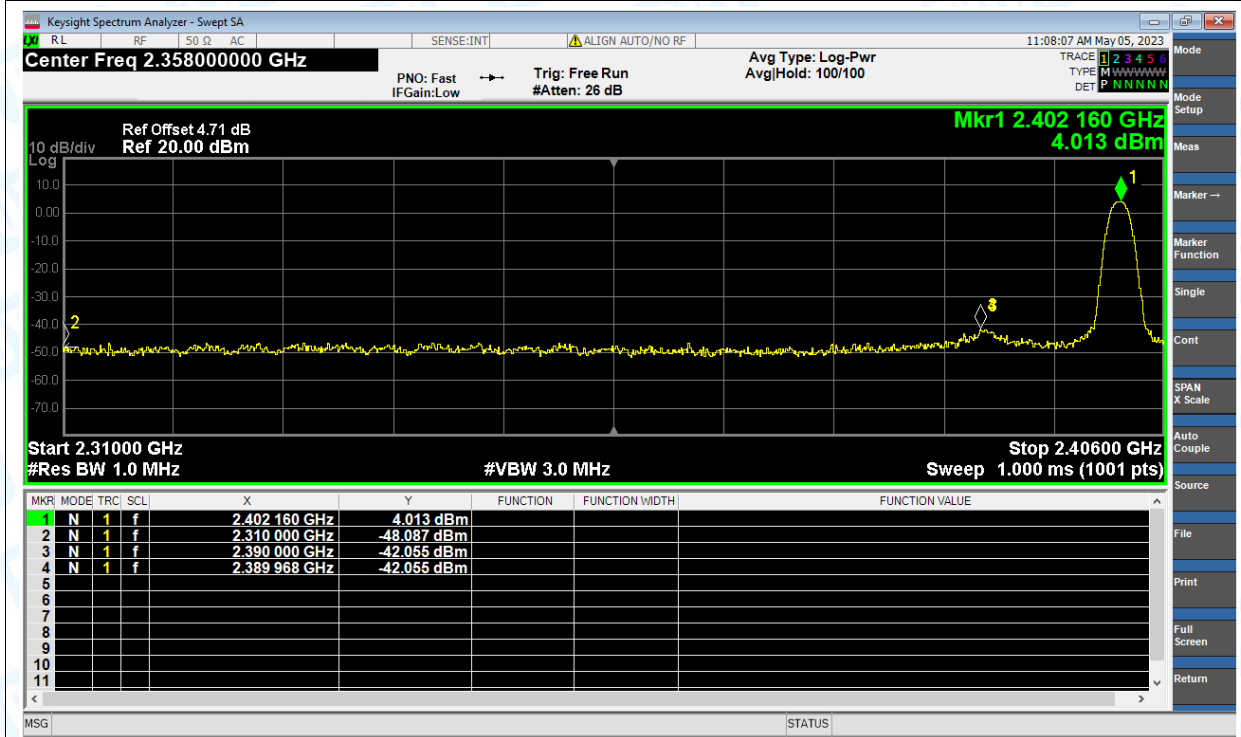


Restrict Band

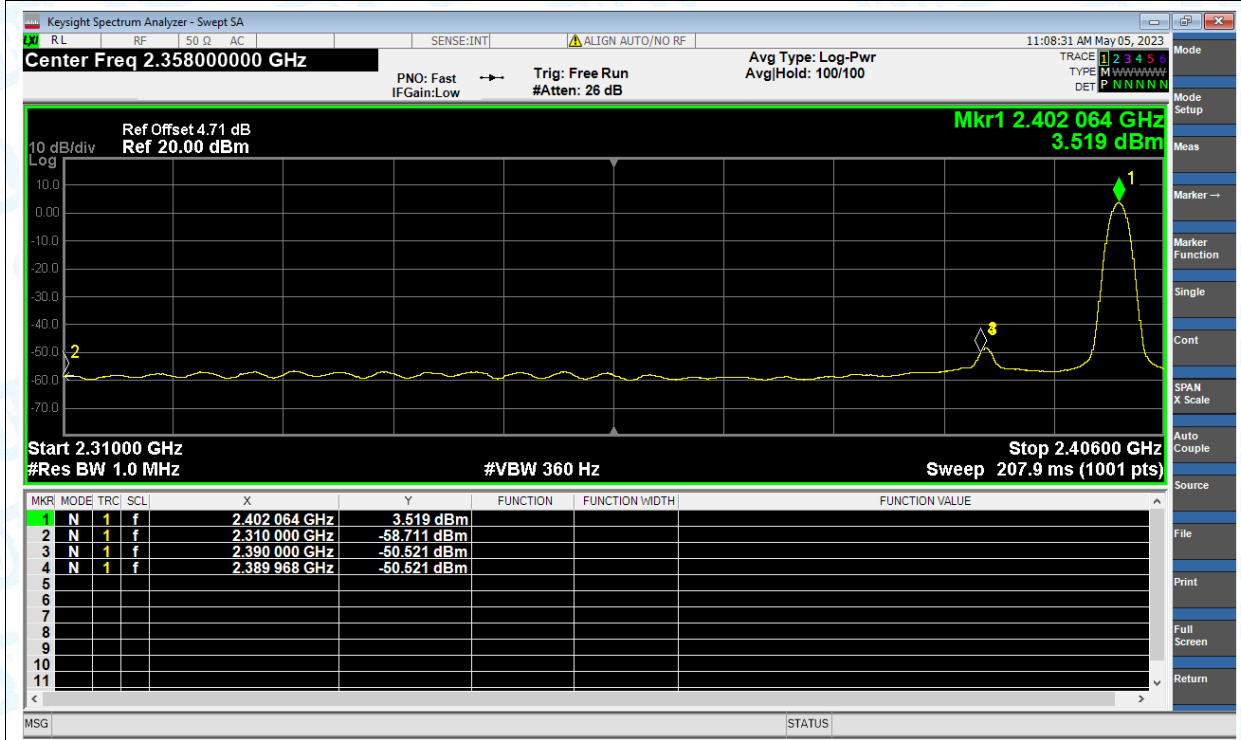
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-48.09	2.04	49.21	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-58.71	2.04	38.59	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2389.968	-42.06	2.04	55.24	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2389.968	-50.52	2.04	46.78	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-42.12	2.04	55.18	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-49.86	2.04	47.44	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-44.31	2.04	52.99	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-54.48	2.04	42.82	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2491.576	-41.54	2.04	55.76	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2491.6	-48.78	2.04	48.52	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-47.61	2.04	49.69	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-56.4	2.04	40.9	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-46.56	2.04	50.74	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-55.84	2.04	41.46	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2389.776	-41.62	2.04	55.68	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2389.968	-50.34	2.04	46.96	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-43.3	2.04	54	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-49.77	2.04	47.53	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-45.14	2.04	52.16	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-54.31	2.04	42.99	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2491.432	-41.64	2.04	55.66	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2491.408	-49.49	2.04	47.81	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-47.91	2.04	49.39	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-55.54	2.04	41.76	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-47.64	2.04	49.66	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-55.58	2.04	41.72	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2337.84	-42.87	2.04	54.43	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2389.968	-50.13	2.04	47.17	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-43.52	2.04	53.78	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-49.57	2.04	47.73	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-47.48	2.04	49.82	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-54.05	2.04	43.25	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2491.072	-40.98	2.04	56.32	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2491.384	-49.38	2.04	47.92	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-47.47	2.04	49.83	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-56	2.04	41.3	Average	54	Pass

Test Graphs

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



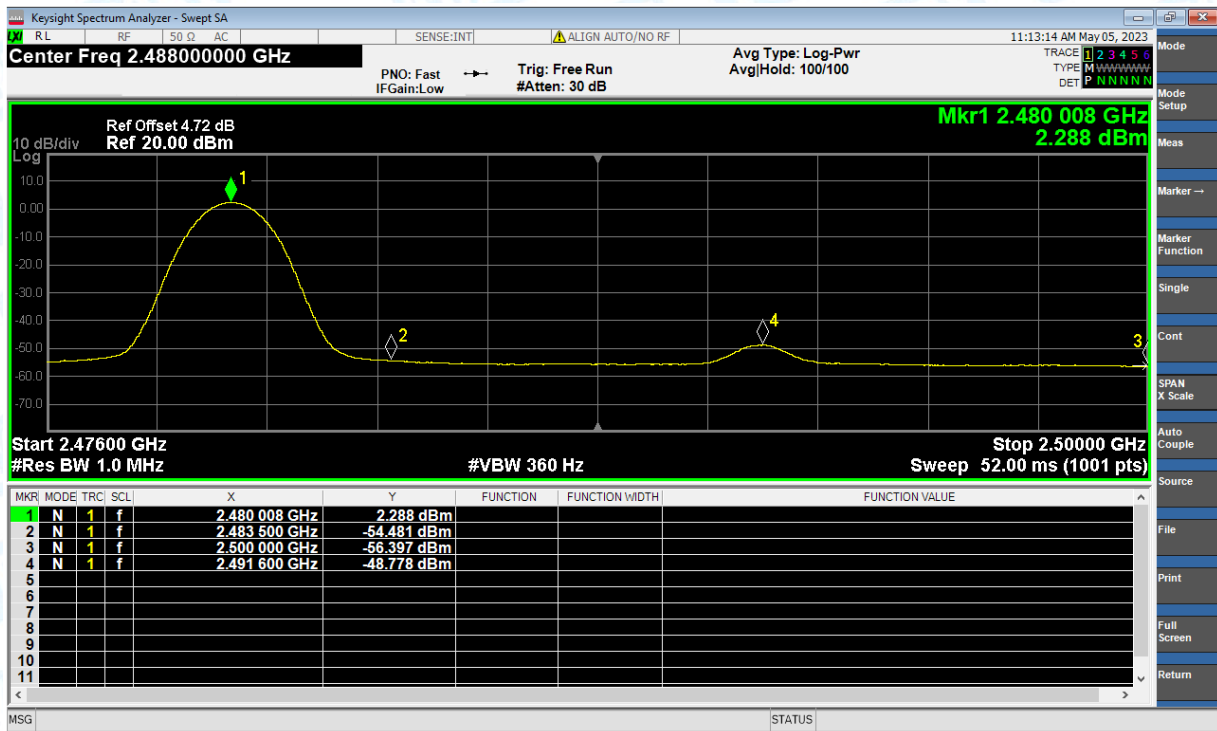
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



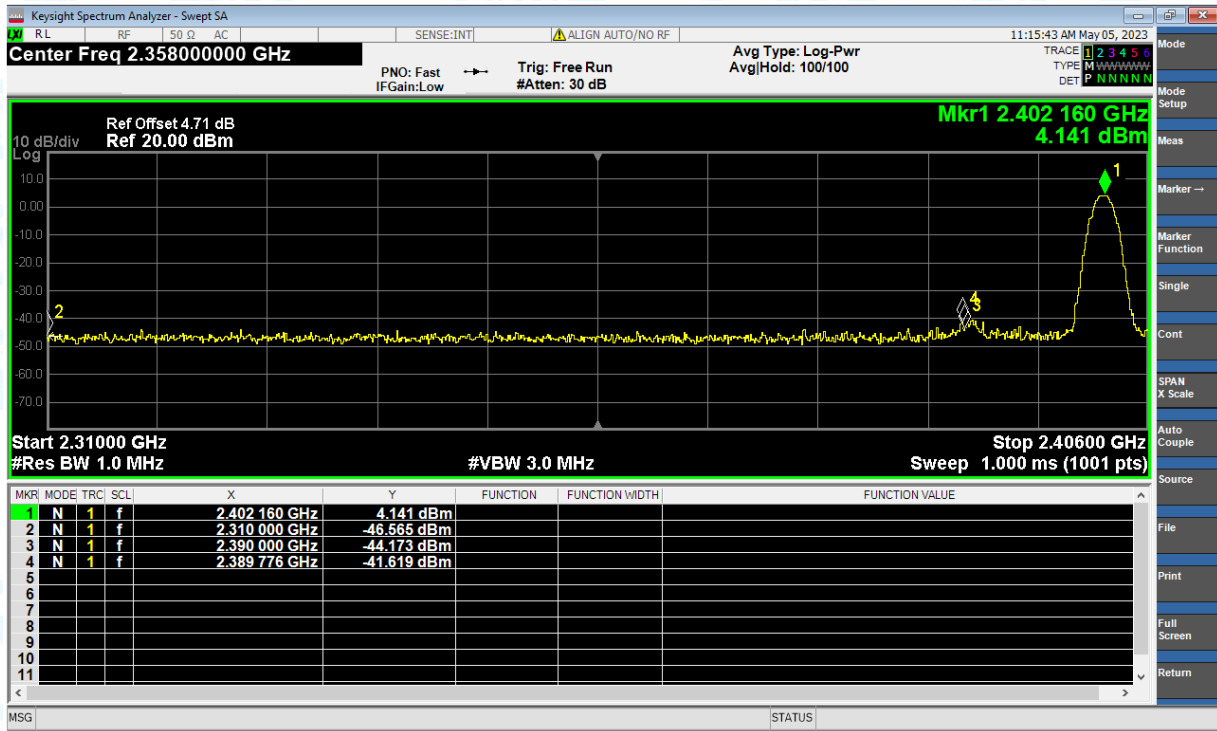
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



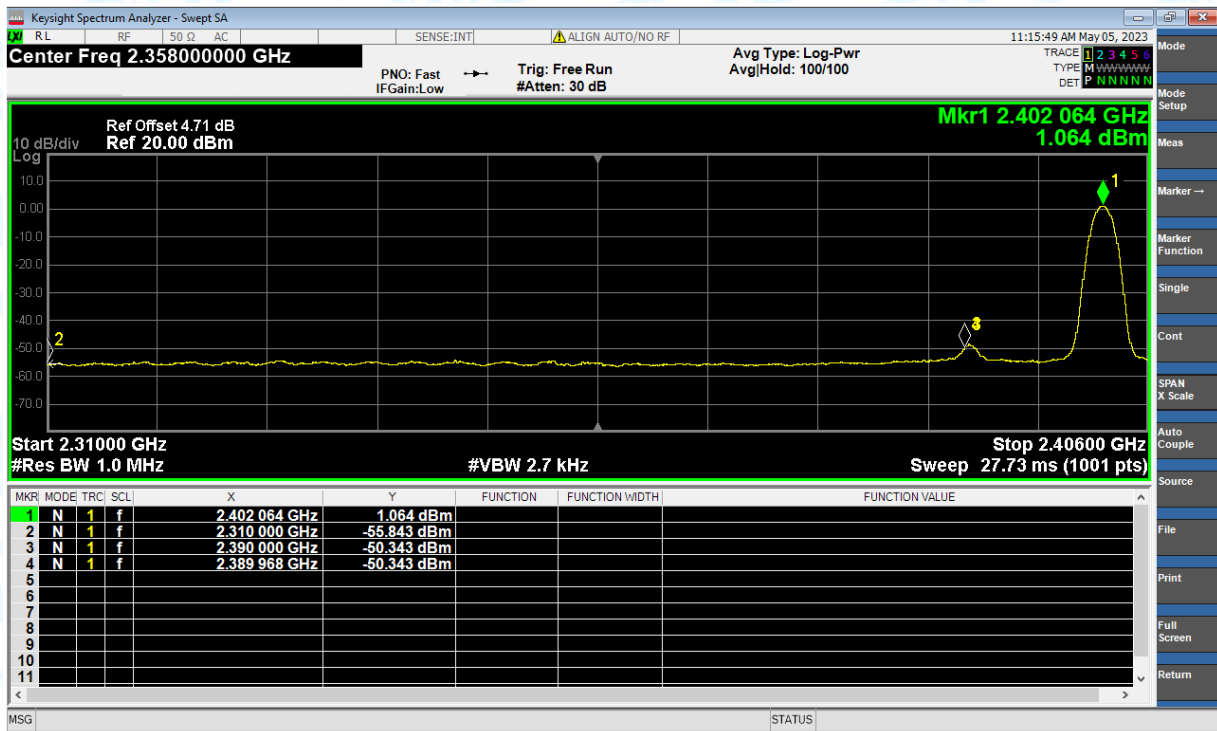
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



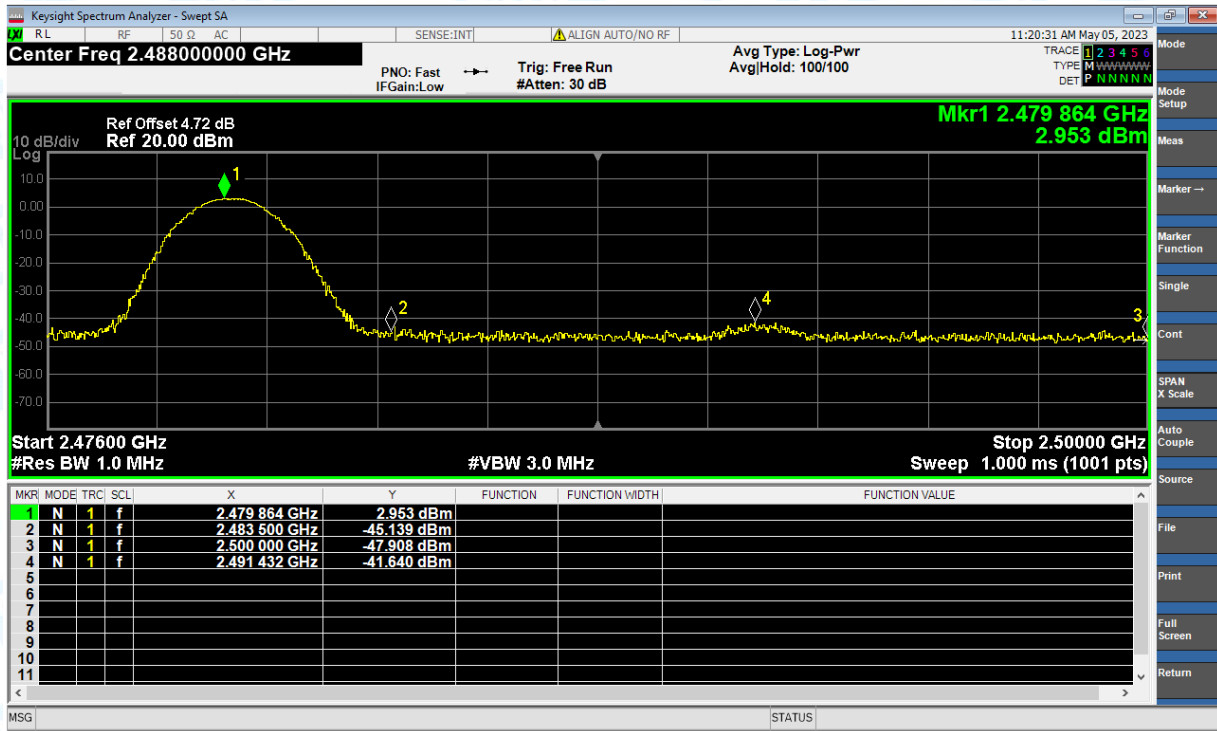
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



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

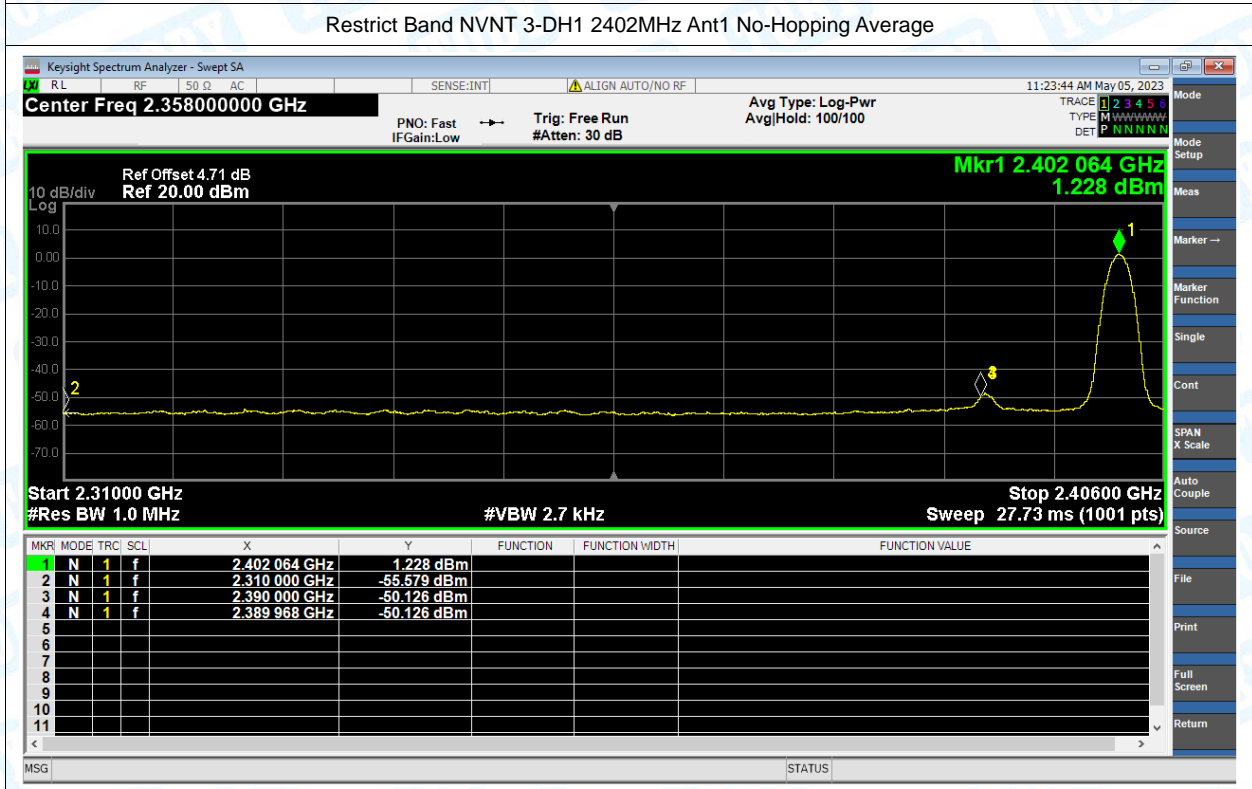
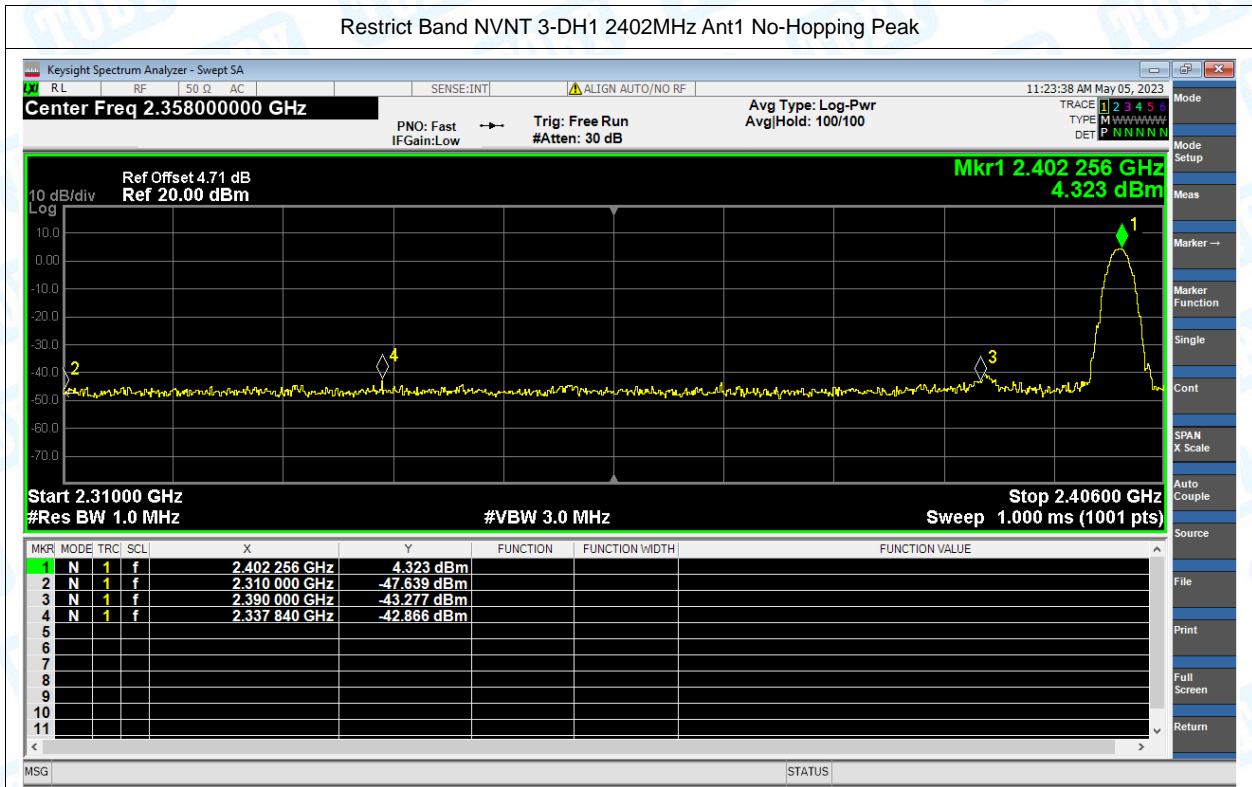


Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak

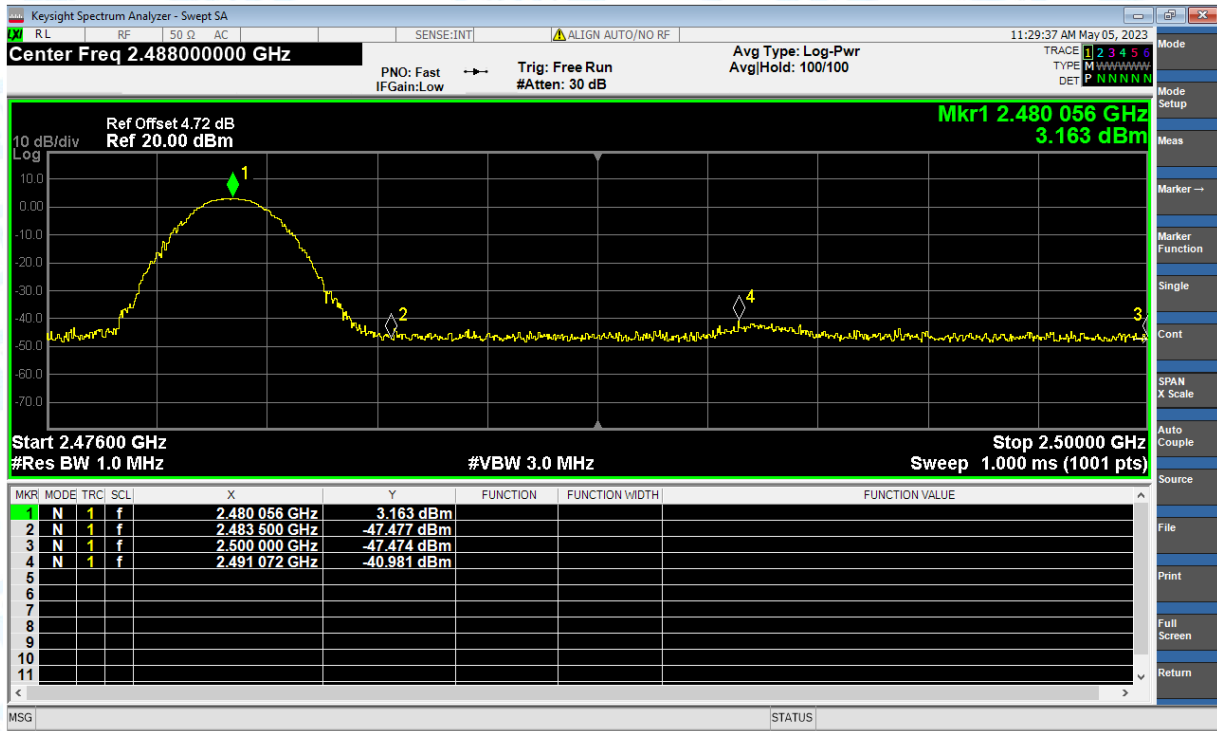


Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Average

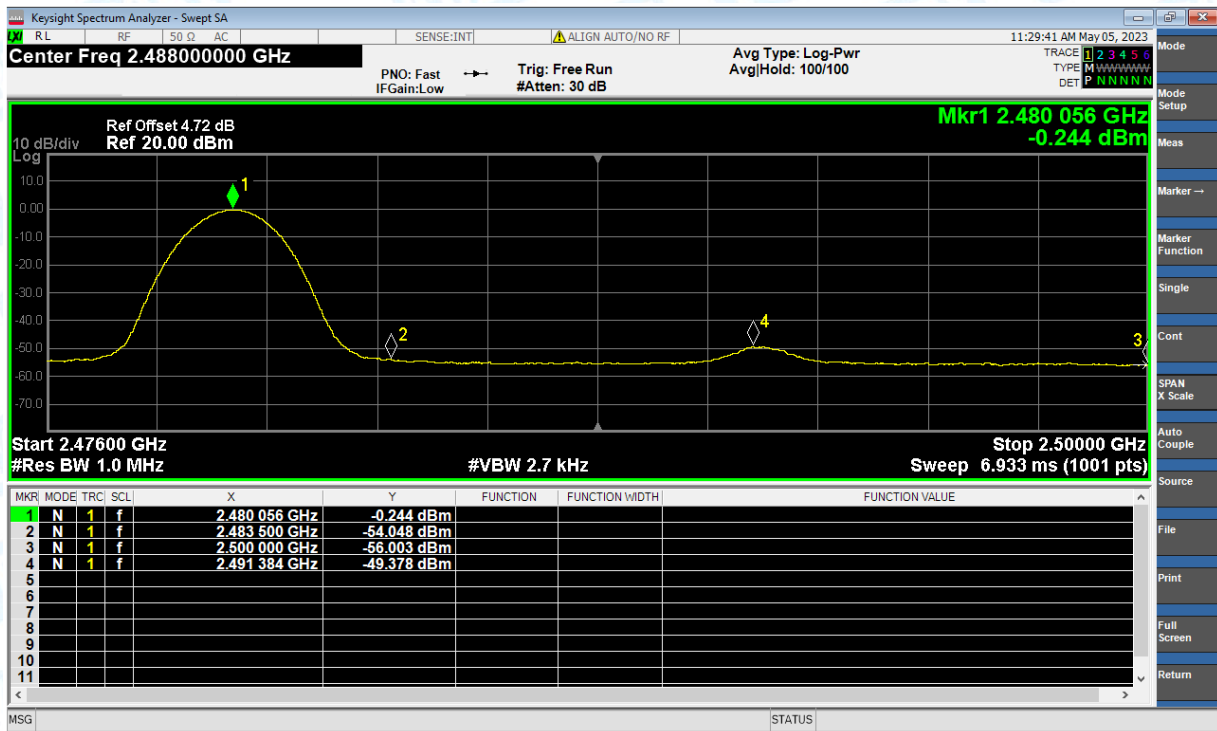




Restrict Band NVNT 3-DH1 2480MHz Ant1 No-Hopping Peak



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



Carrier Frequencies Separation

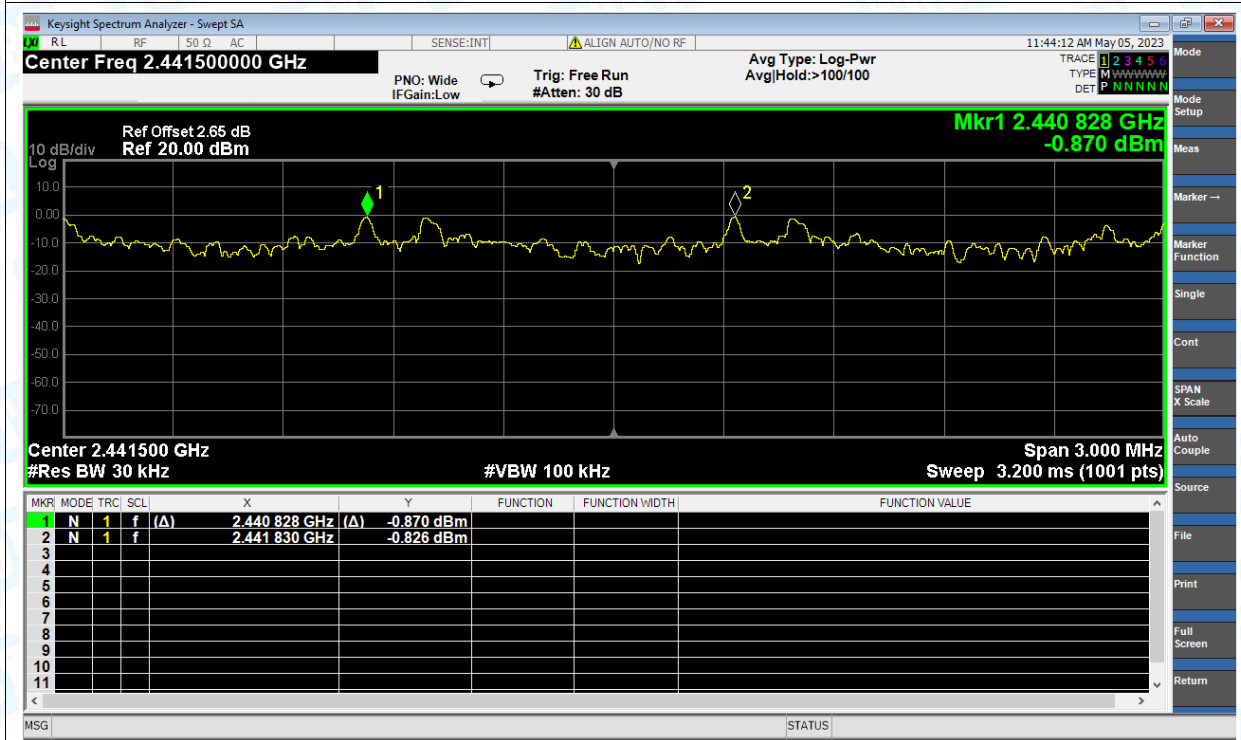
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2440.993	2441.992	0.999	0.627	Pass
NVNT	2-DH1	Ant1	2440.828	2441.83	1.002	0.833	Pass
NVNT	3-DH1	Ant1	2440.834	2441.977	1.143	0.813	Pass

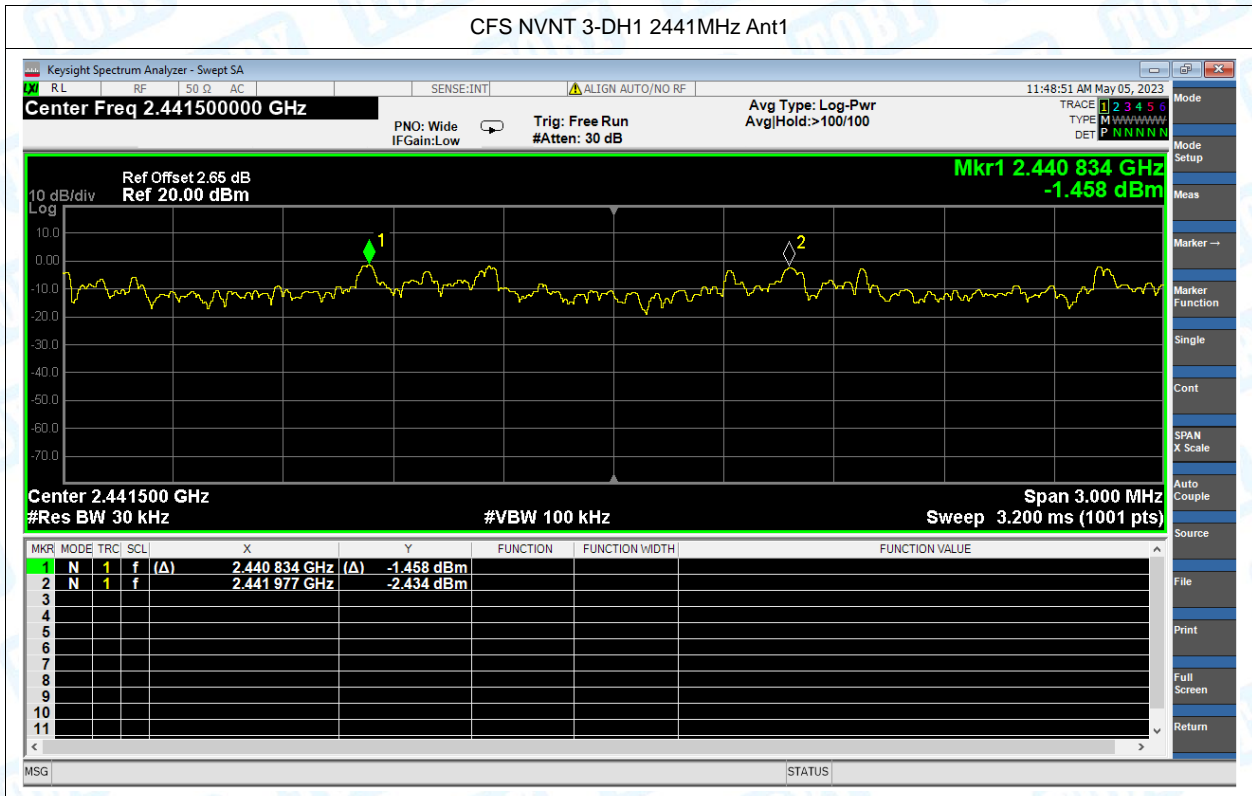
Test Graphs

CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1



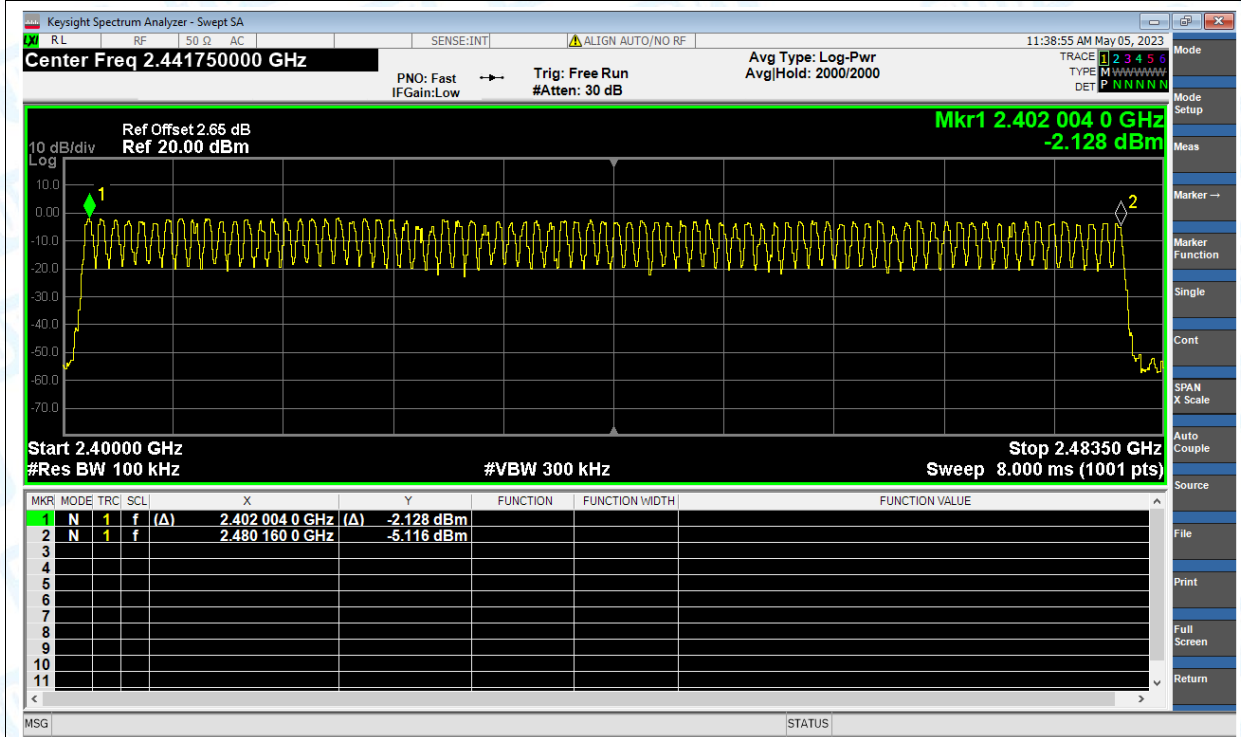


Number of Hopping Channel

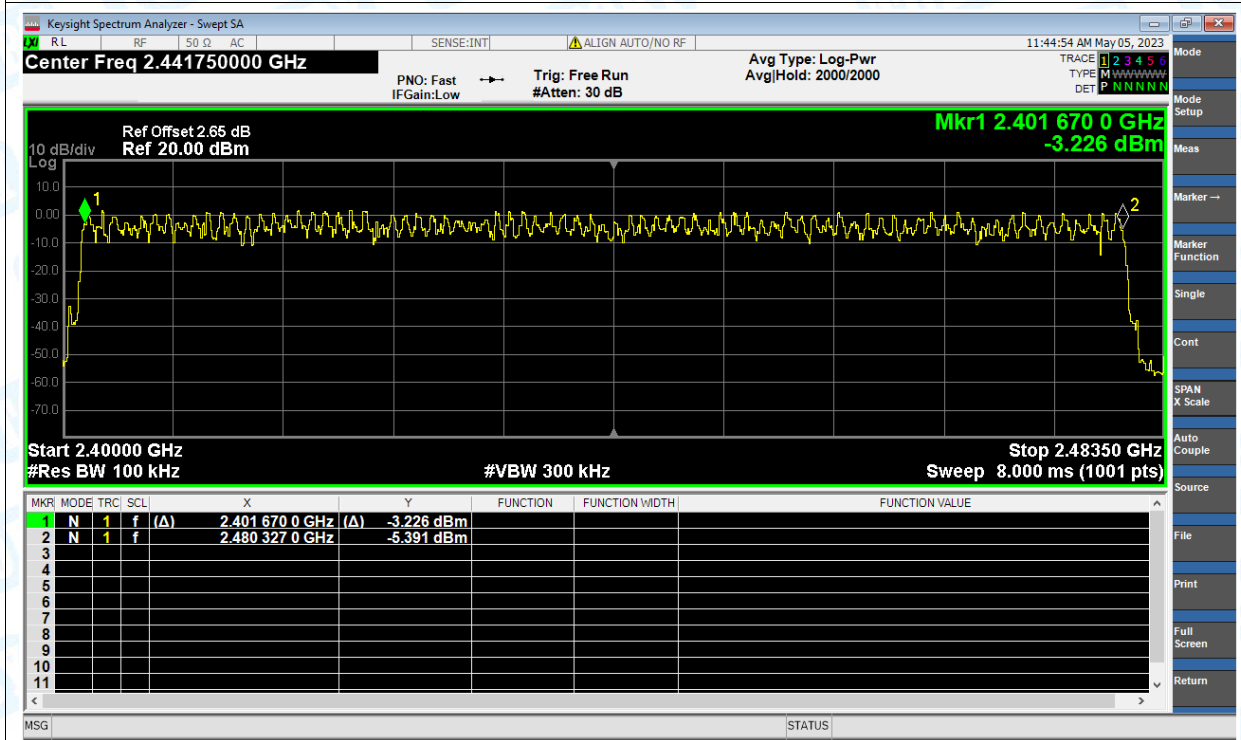
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

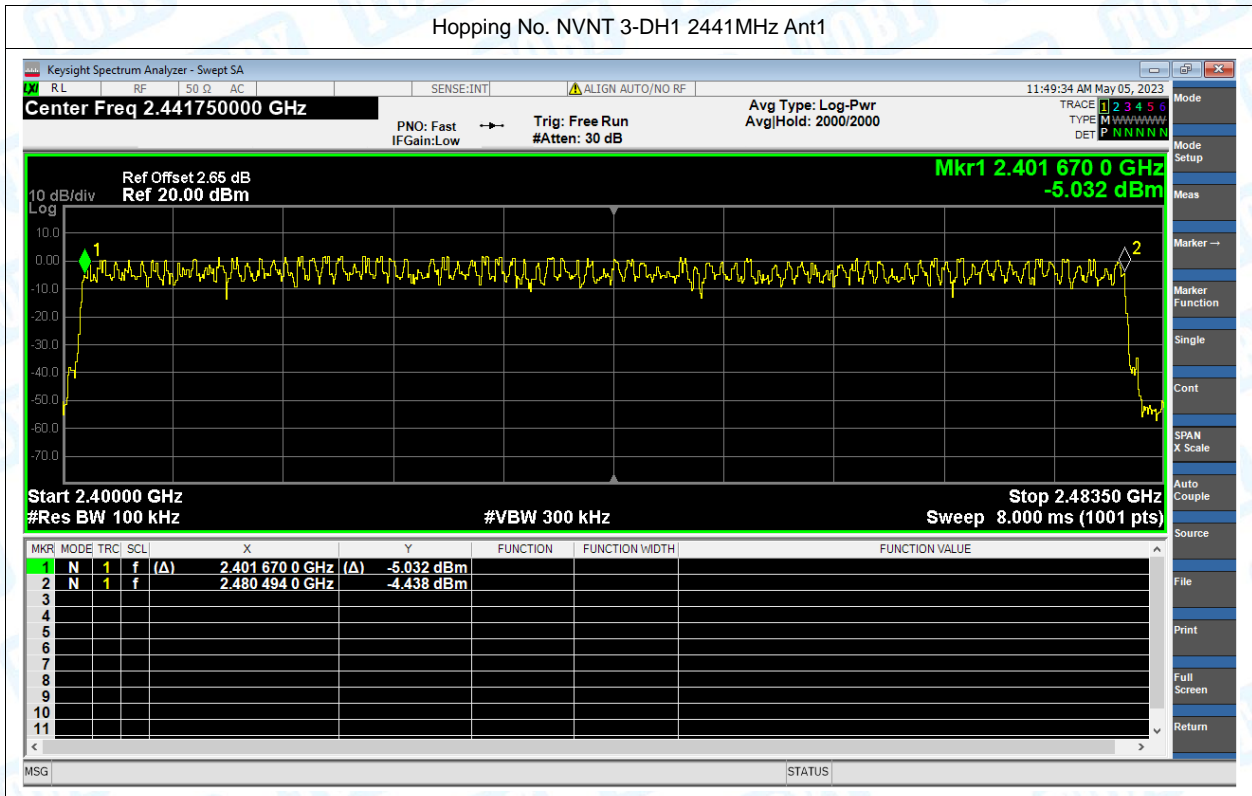
Test Graphs

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1



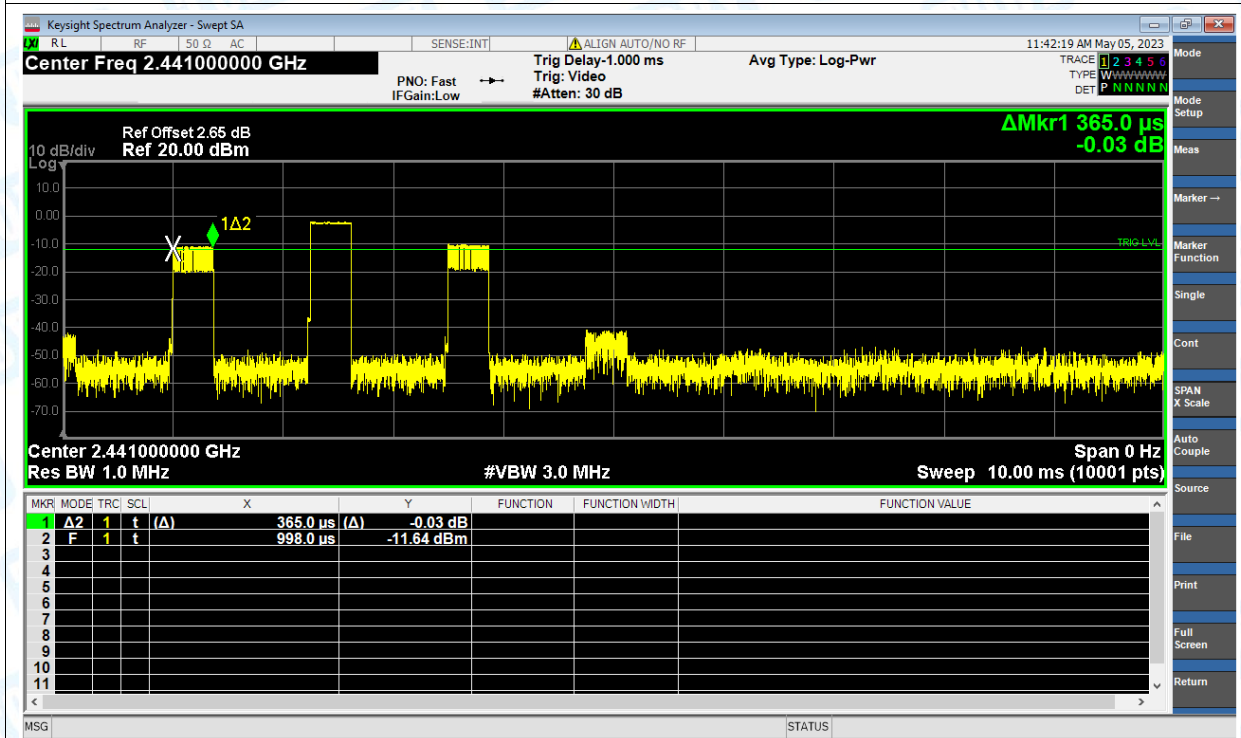


Dwell Time

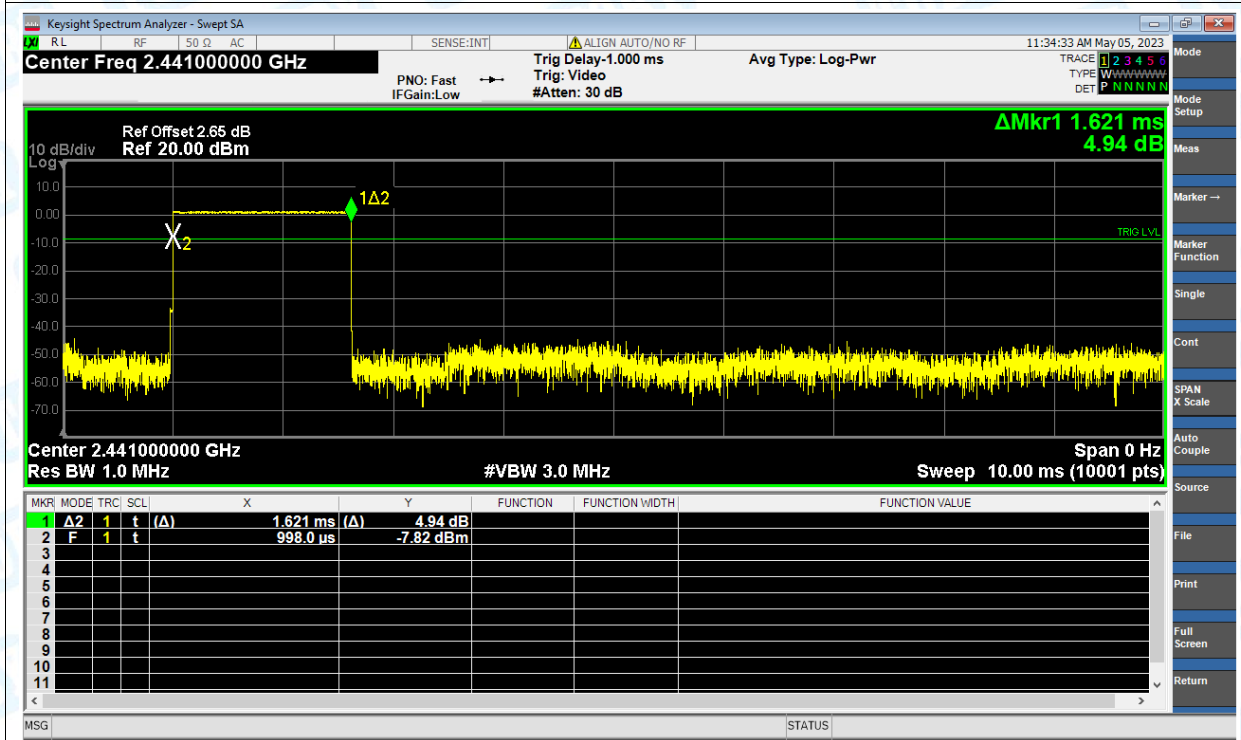
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.365	116.8	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.621	259.36	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.869	306.027	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.373	119.36	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.629	260.64	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.877	306.88	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.371	118.72	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.63	260.8	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.881	307.307	31600	406	Pass

Test Graphs

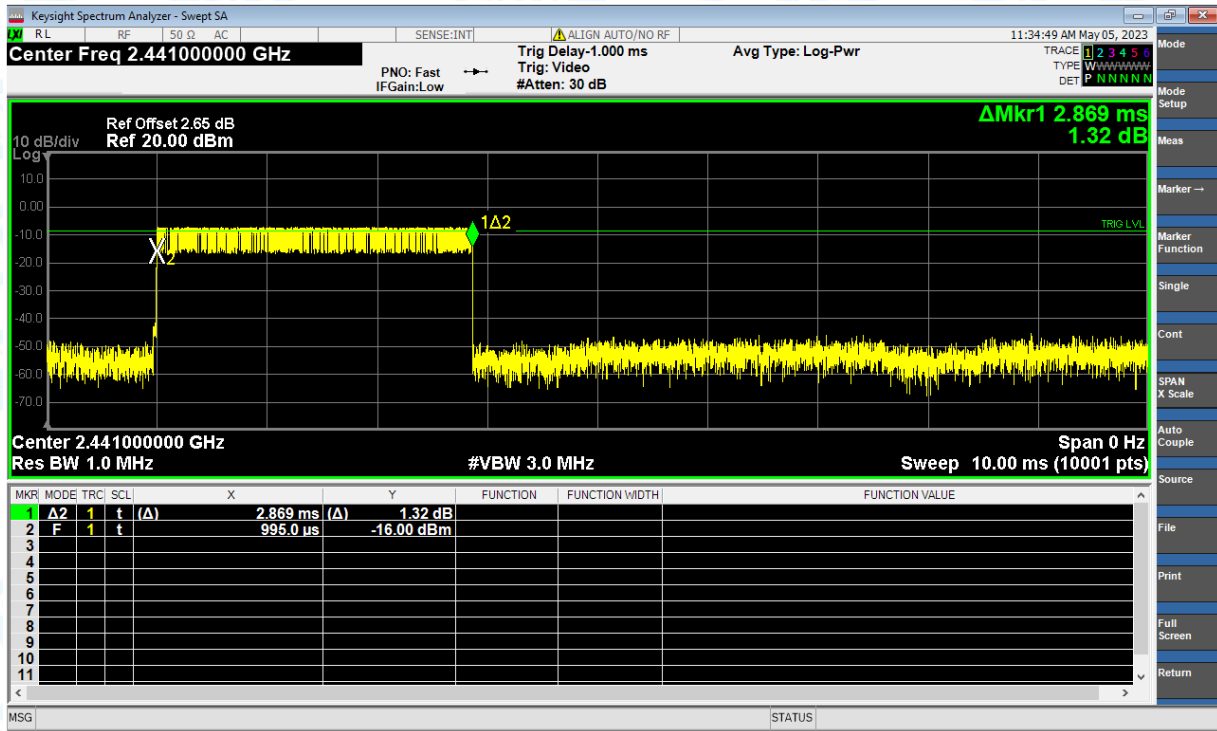
Dwell NVNT 1-DH1 2441MHz Ant1



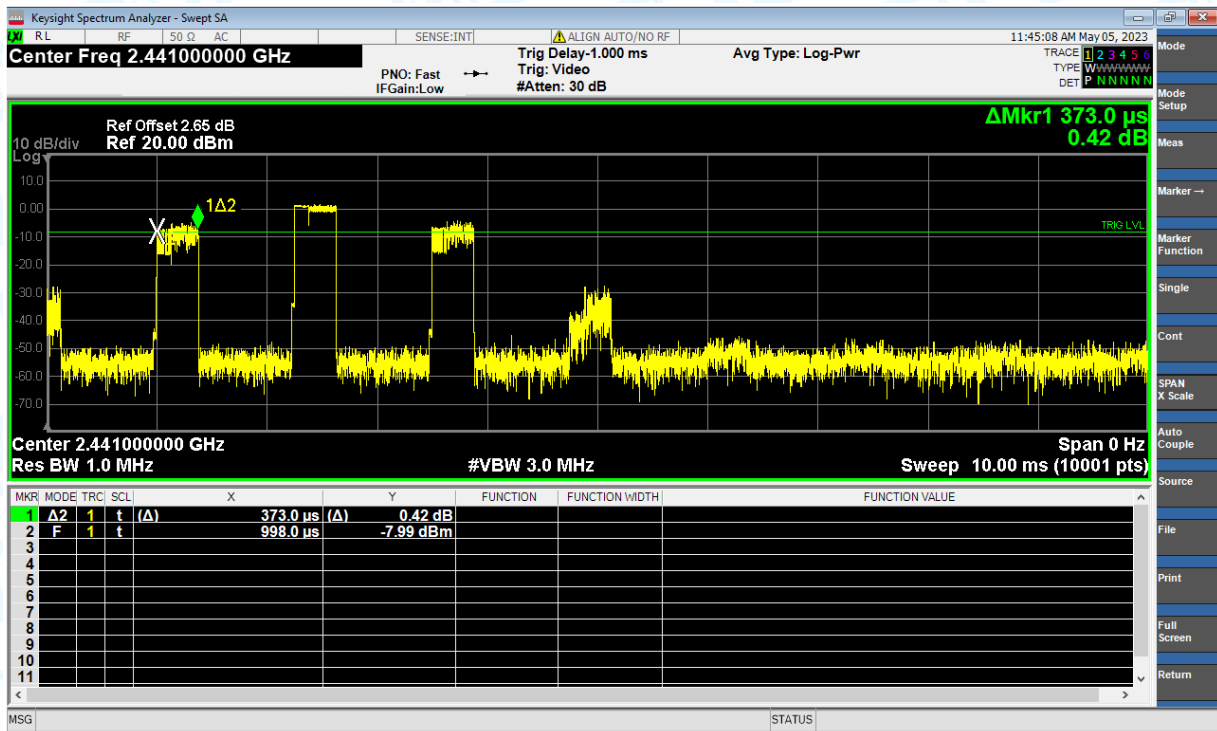
Dwell NVNT 1-DH3 2441MHz Ant1



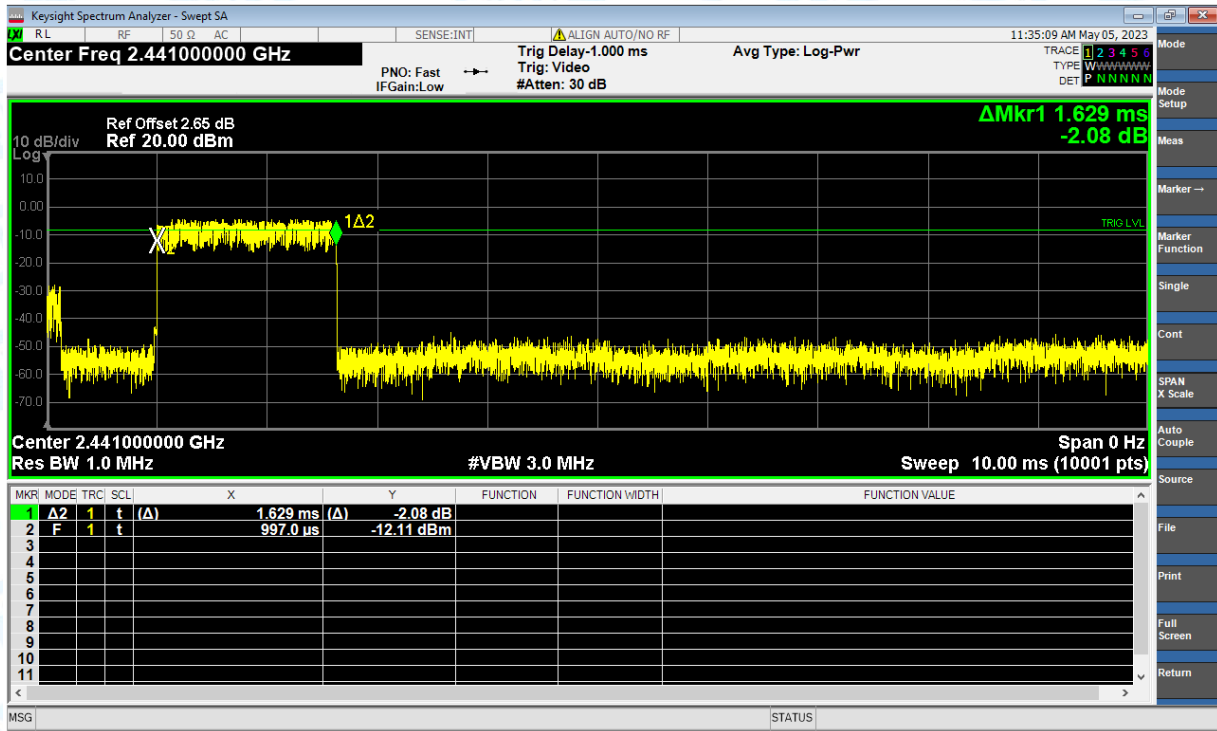
Dwell NVNT 1-DH5 2441MHz Ant1



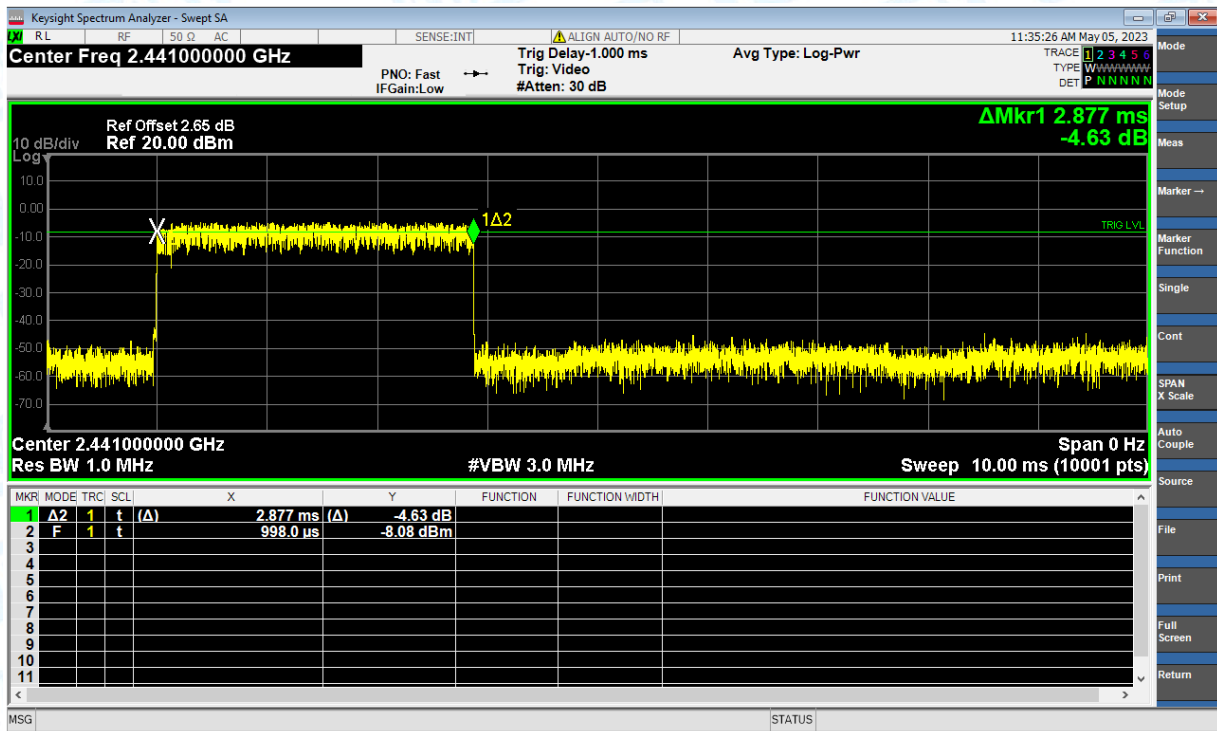
Dwell NVNT 2-DH1 2441MHz Ant1



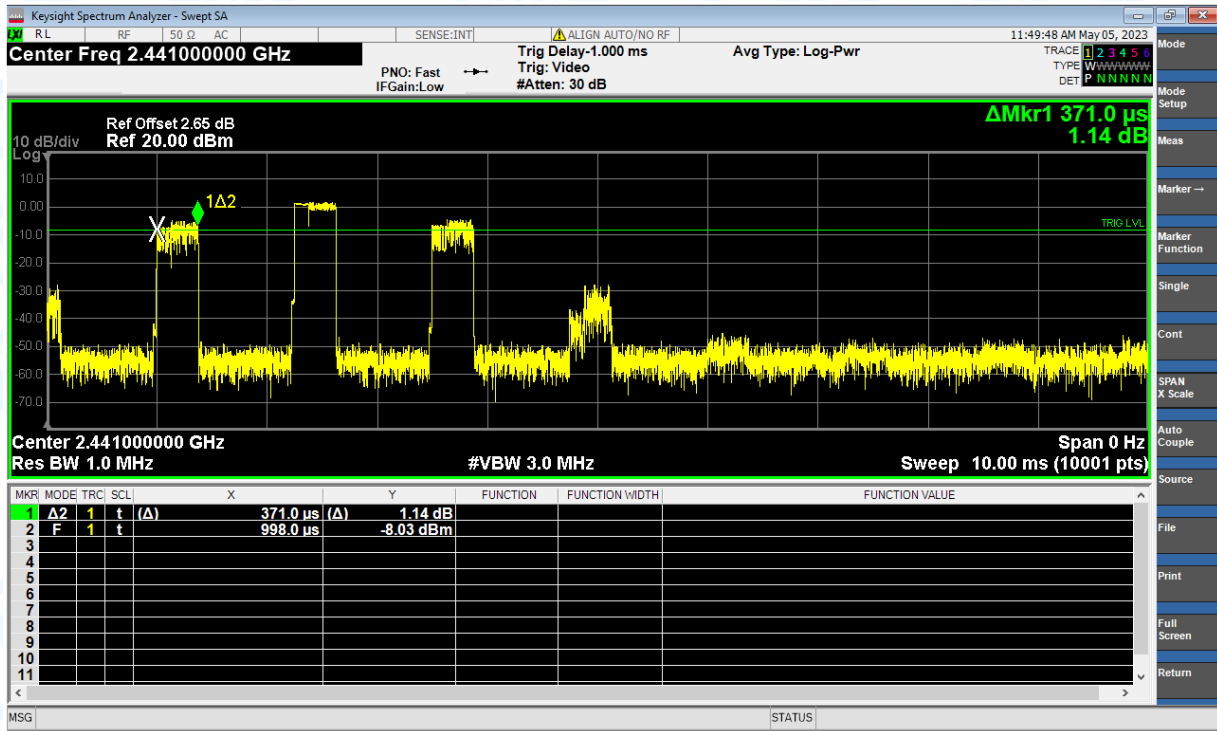
Dwell NVNT 2-DH3 2441MHz Ant1



Dwell NVNT 2-DH5 2441MHz Ant1



Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1

