

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

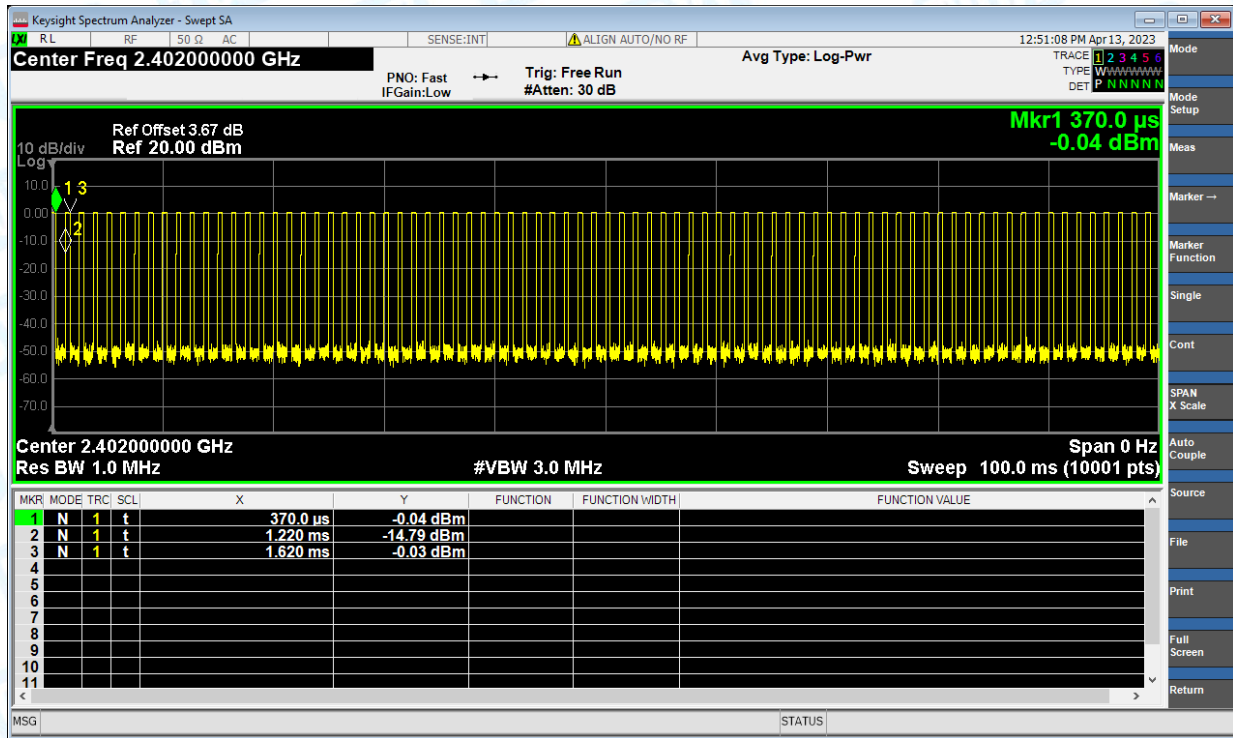
General Description of EUT	
<b>Product Name:</b>	Mini SoundPods - Black
<b>Test Model:</b>	CVS-04
<b>Sample ID:</b>	RW-C-202304-0054-2-2#
Environmental Conditions	
<b>Temperature:</b>	23.8°C
<b>Relative Humidity:</b>	48%
<b>Test Voltage:</b>	DC 3.7V
<b>Test Engineer:</b>	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202304-0054-2 The report only show the worst case data.	

## 1. Duty Cycle

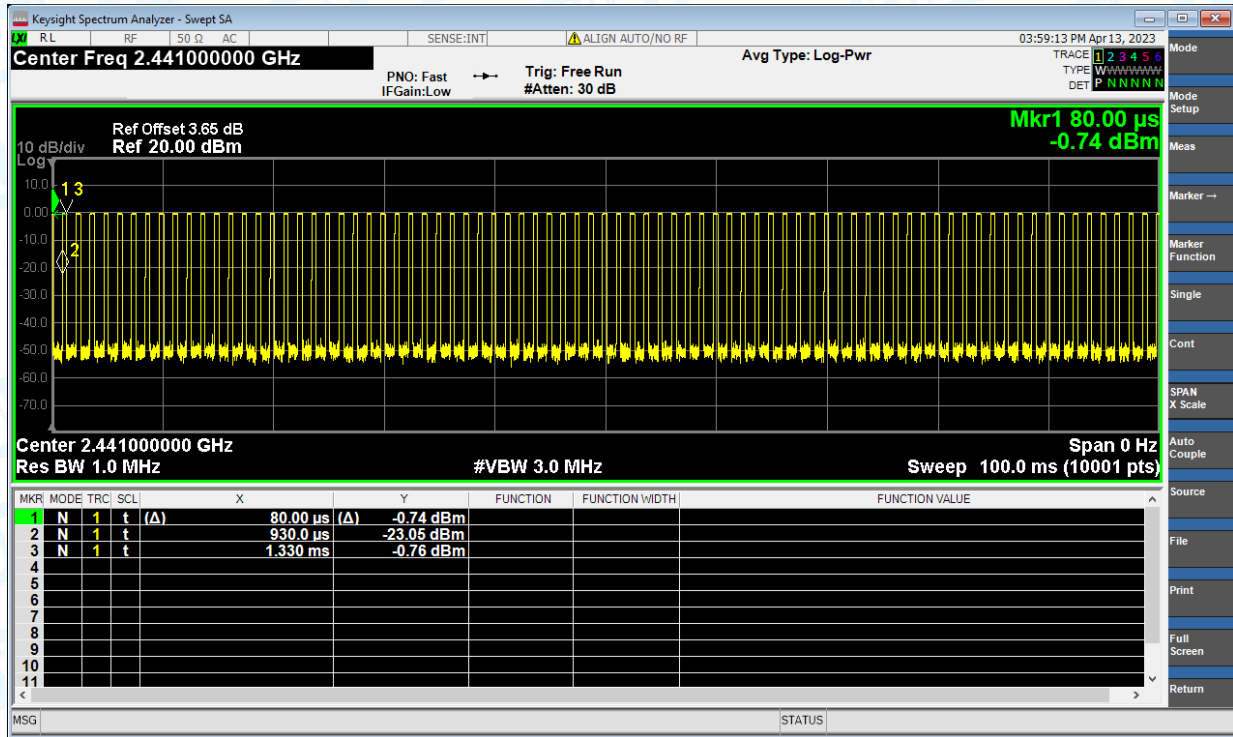
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	32	4.95	2.5
NVNT	1-DH1	2441	Ant1	32	4.95	2.5
NVNT	1-DH1	2480	Ant1	32	4.95	2.5
NVNT	2-DH1	2402	Ant1	32	4.95	2.5
NVNT	2-DH1	2441	Ant1	32.8	4.84	2.44
NVNT	2-DH1	2480	Ant1	32.8	4.84	2.44
NVNT	3-DH1	2402	Ant1	32.8	4.84	2.44
NVNT	3-DH1	2441	Ant1	32.8	4.84	2.44
NVNT	3-DH1	2480	Ant1	32.8	4.84	2.44

Test Graphs

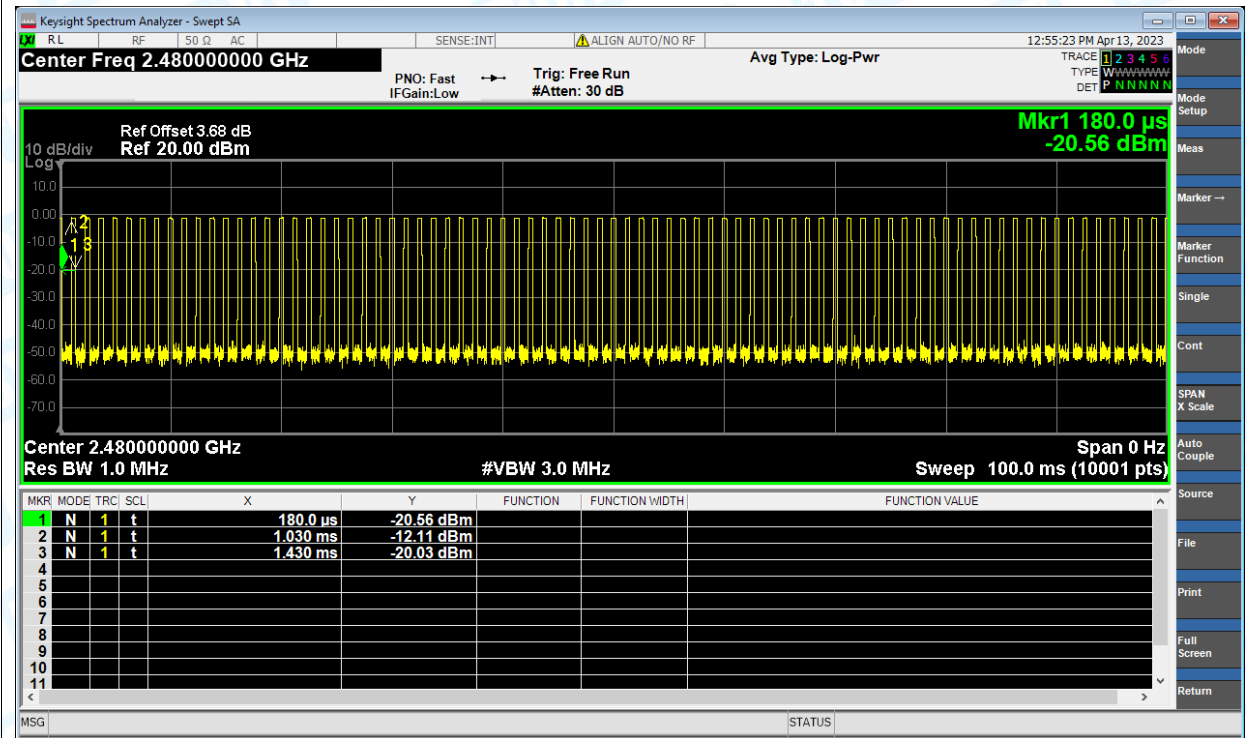
Duty Cycle NVNT 1-DH1 2402MHz Ant1



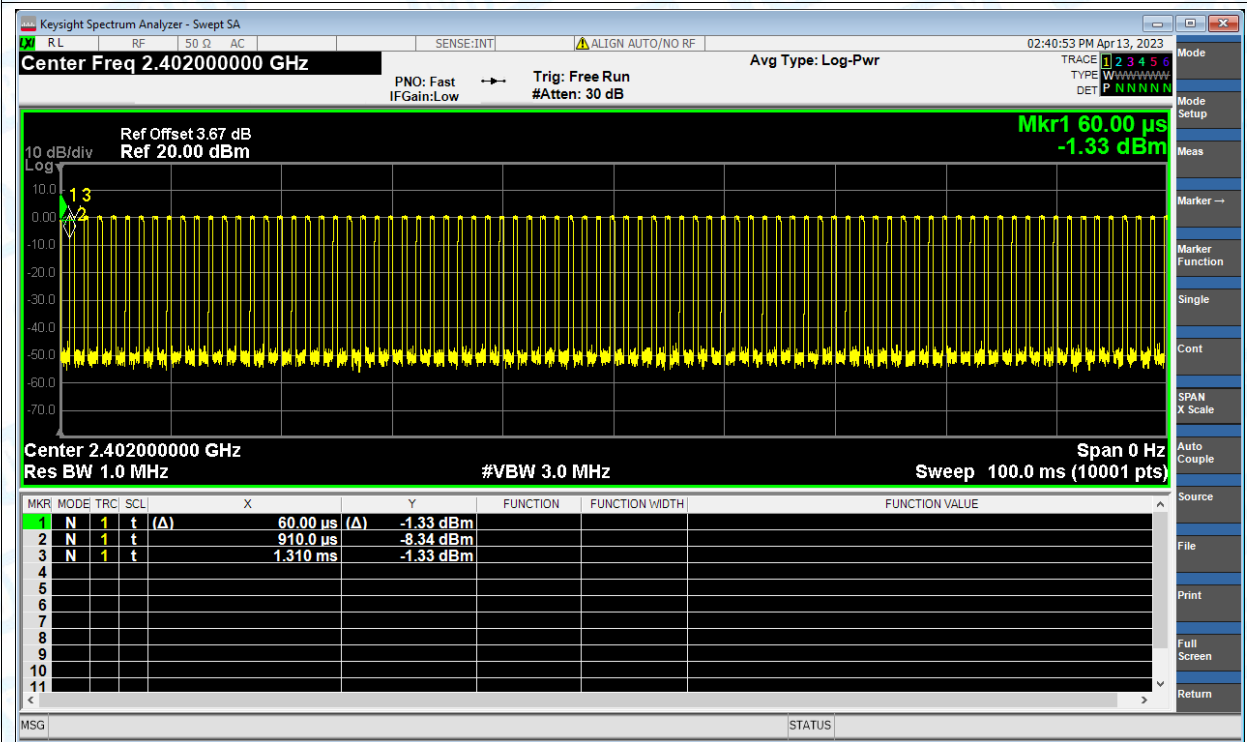
Duty Cycle NVNT 1-DH1 2441MHz Ant1



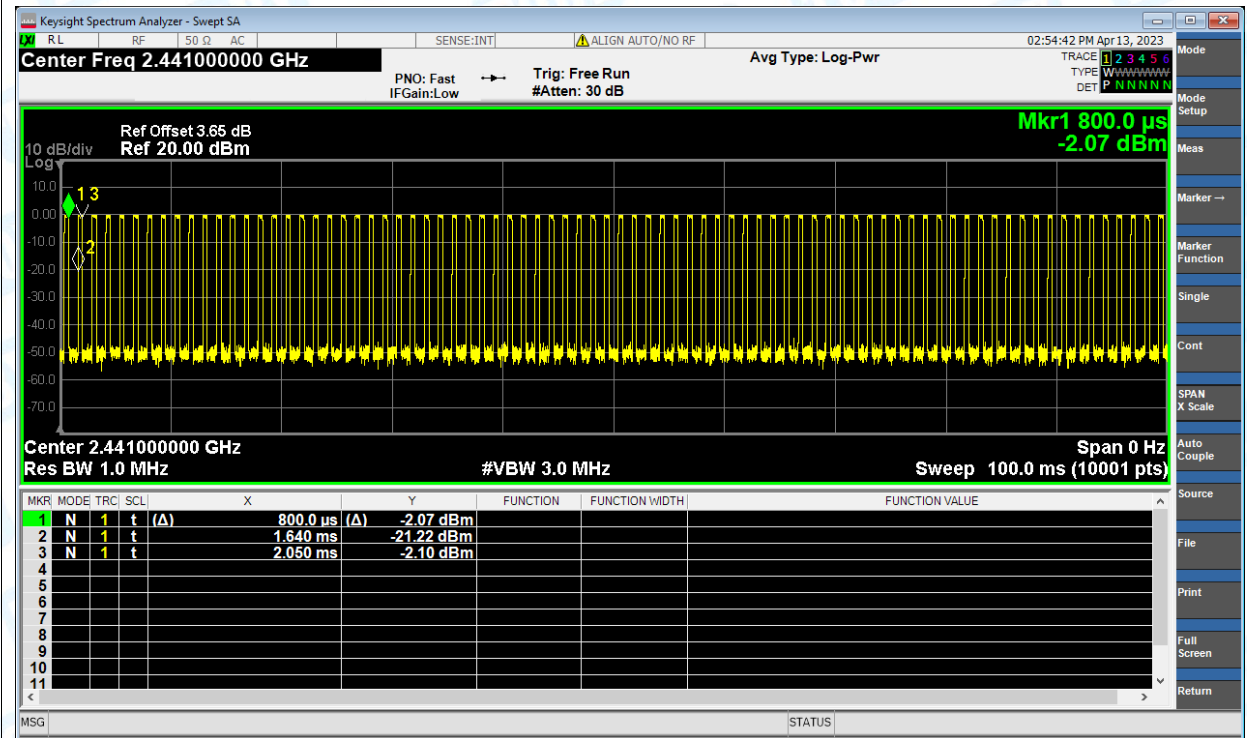
Duty Cycle NVNT 1-DH1 2480MHz Ant1



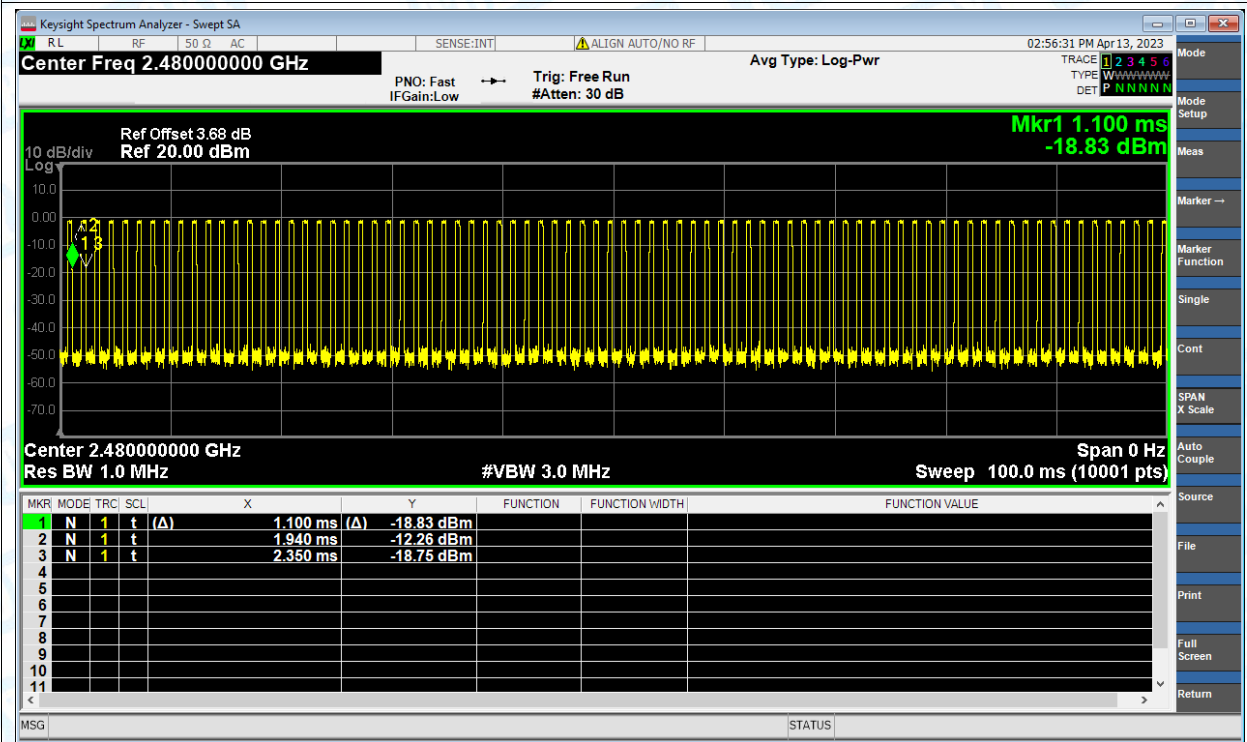
Duty Cycle NVNT 2-DH1 2402MHz Ant1



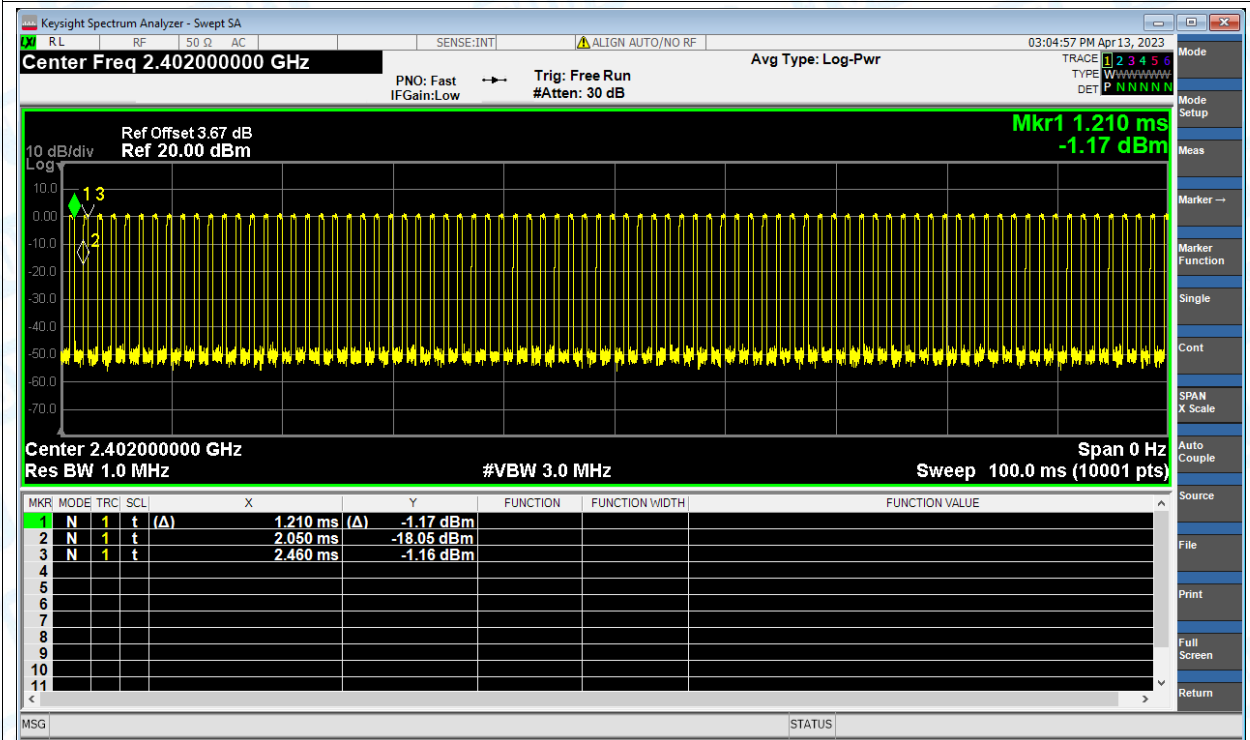
Duty Cycle NVNT 2-DH1 2441MHz Ant1



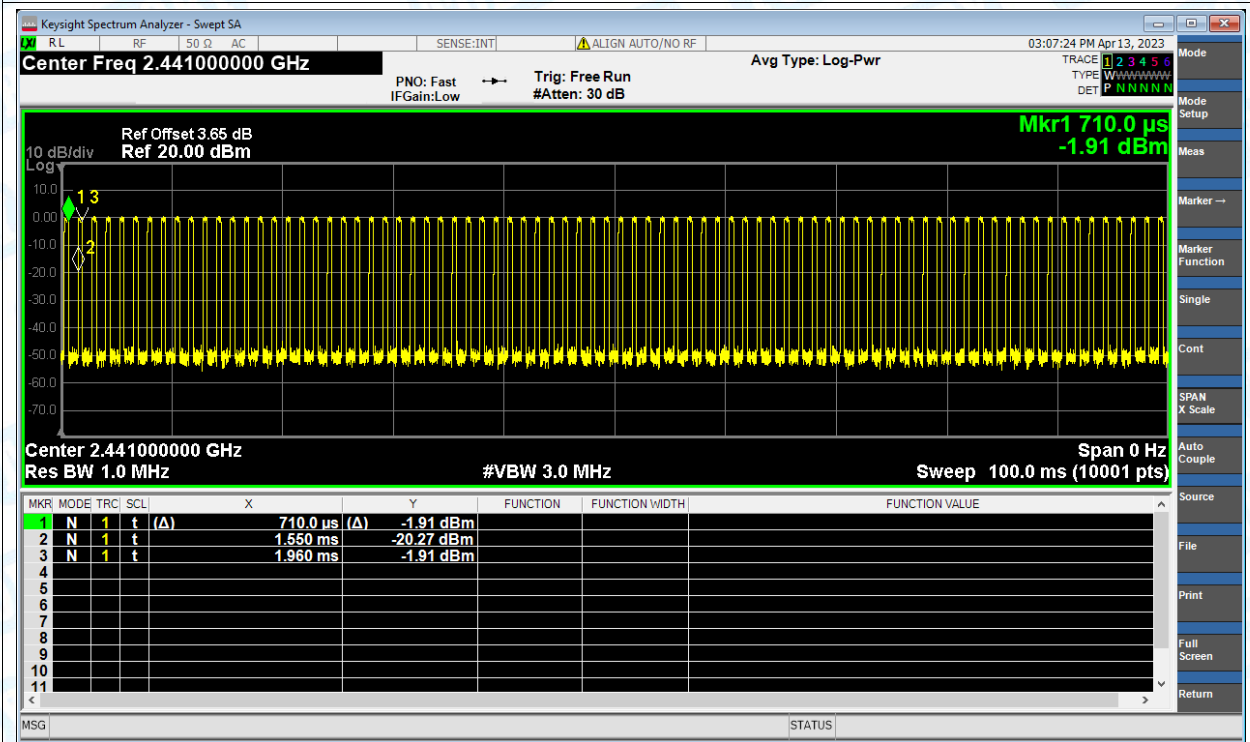
Duty Cycle NVNT 2-DH1 2480MHz Ant1

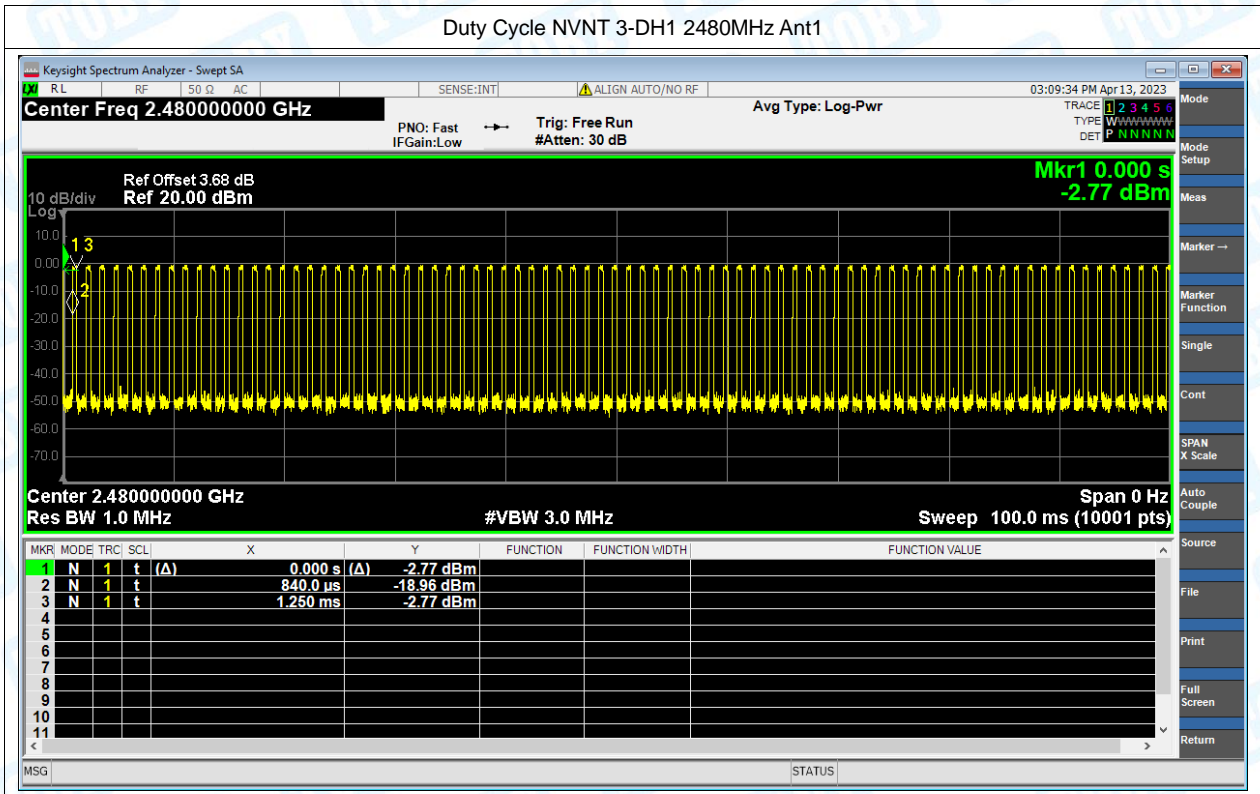


Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1





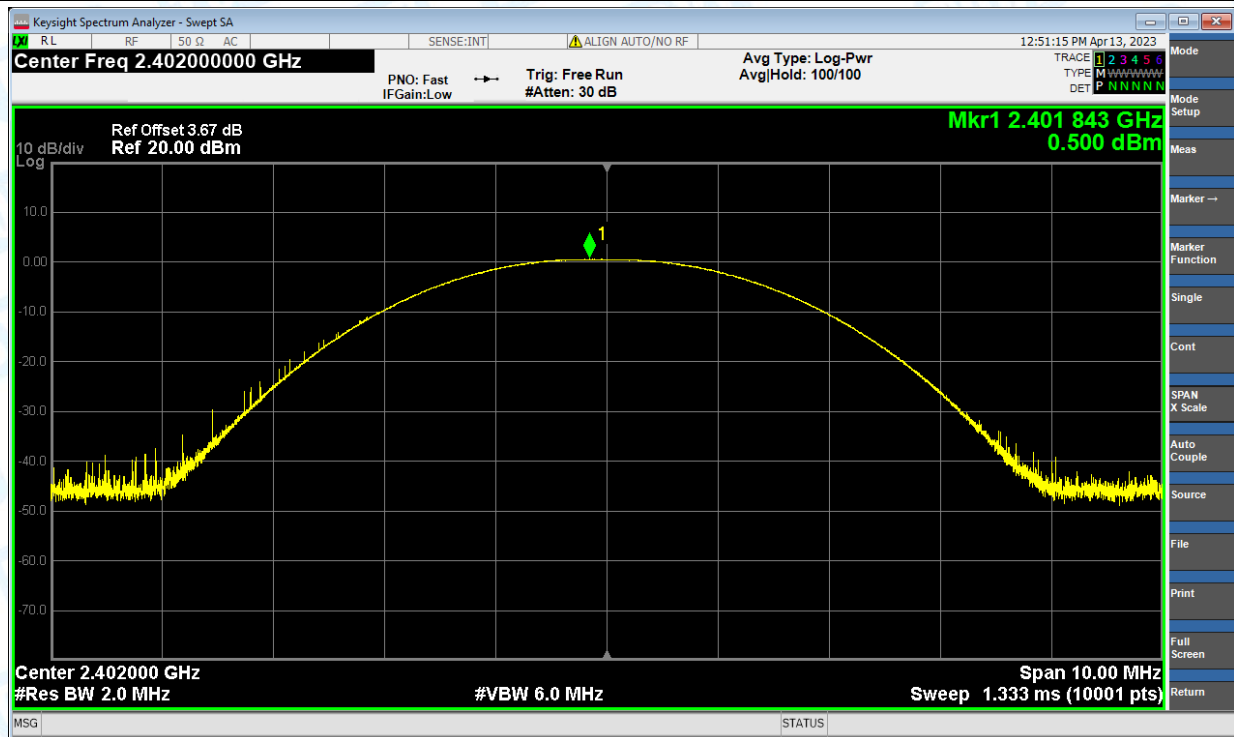
## 2. Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	0.500	21	Pass
NVNT	1-DH1	2441	Ant1	-0.284	21	Pass
NVNT	1-DH1	2480	Ant1	-1.145	21	Pass
NVNT	2-DH1	2402	Ant1	1.029	21	Pass
NVNT	2-DH1	2441	Ant1	0.306	21	Pass
NVNT	2-DH1	2480	Ant1	-0.565	21	Pass
NVNT	3-DH1	2402	Ant1	1.509	21	Pass
NVNT	3-DH1	2441	Ant1	0.807	21	Pass
NVNT	3-DH1	2480	Ant1	-0.064	21	Pass

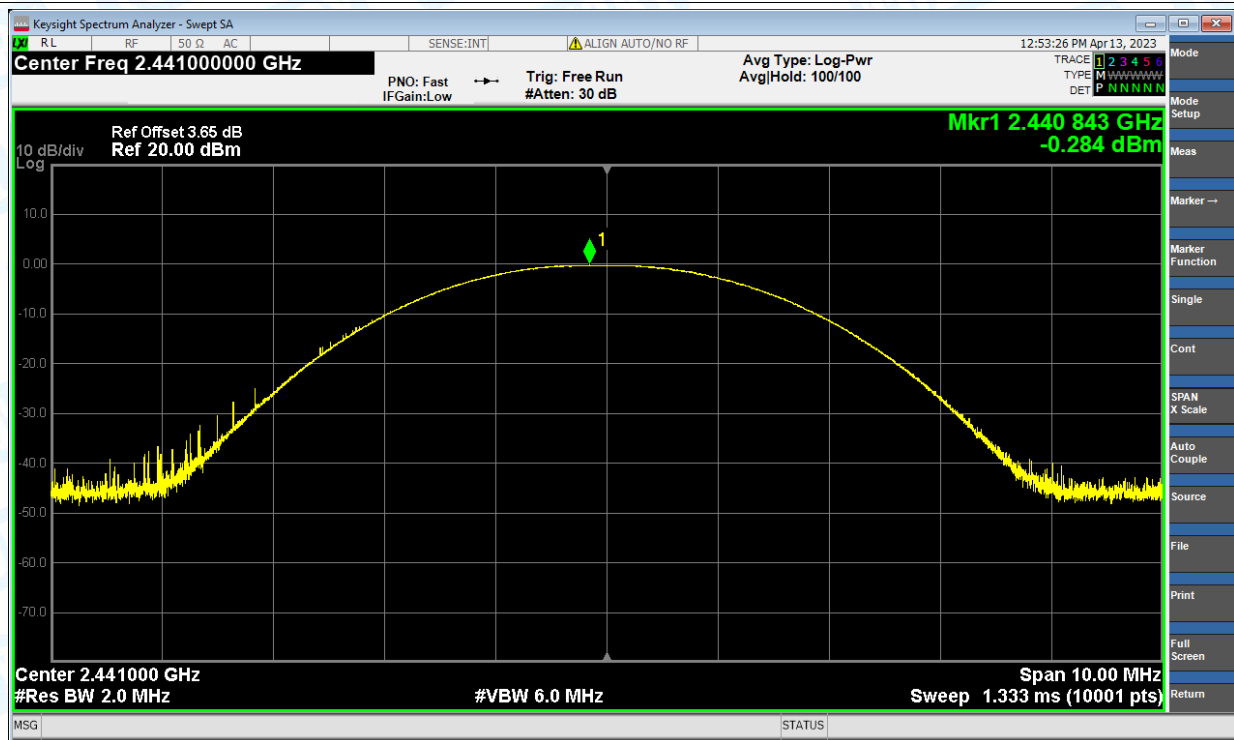


Test Graphs

Power NVNT 1-DH1 2402MHz Ant1



Power NVNT 1-DH1 2441MHz Ant1



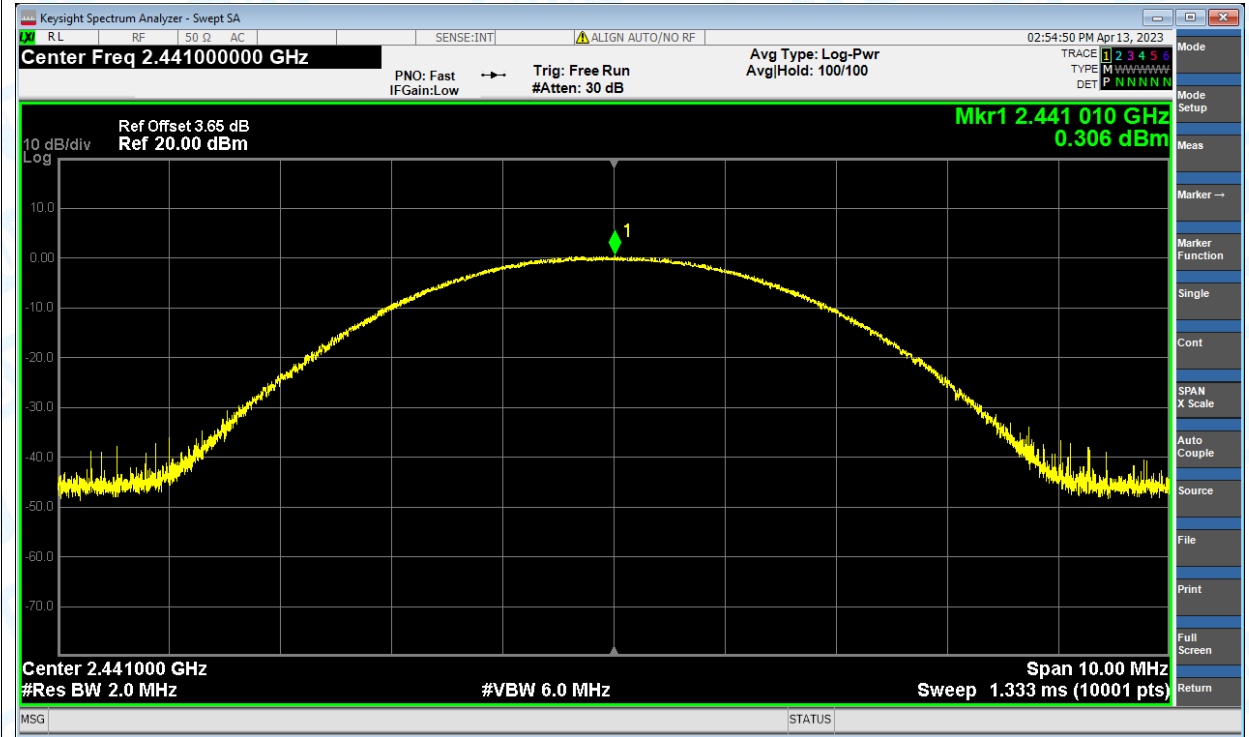
Power NVNT 1-DH1 2480MHz Ant1



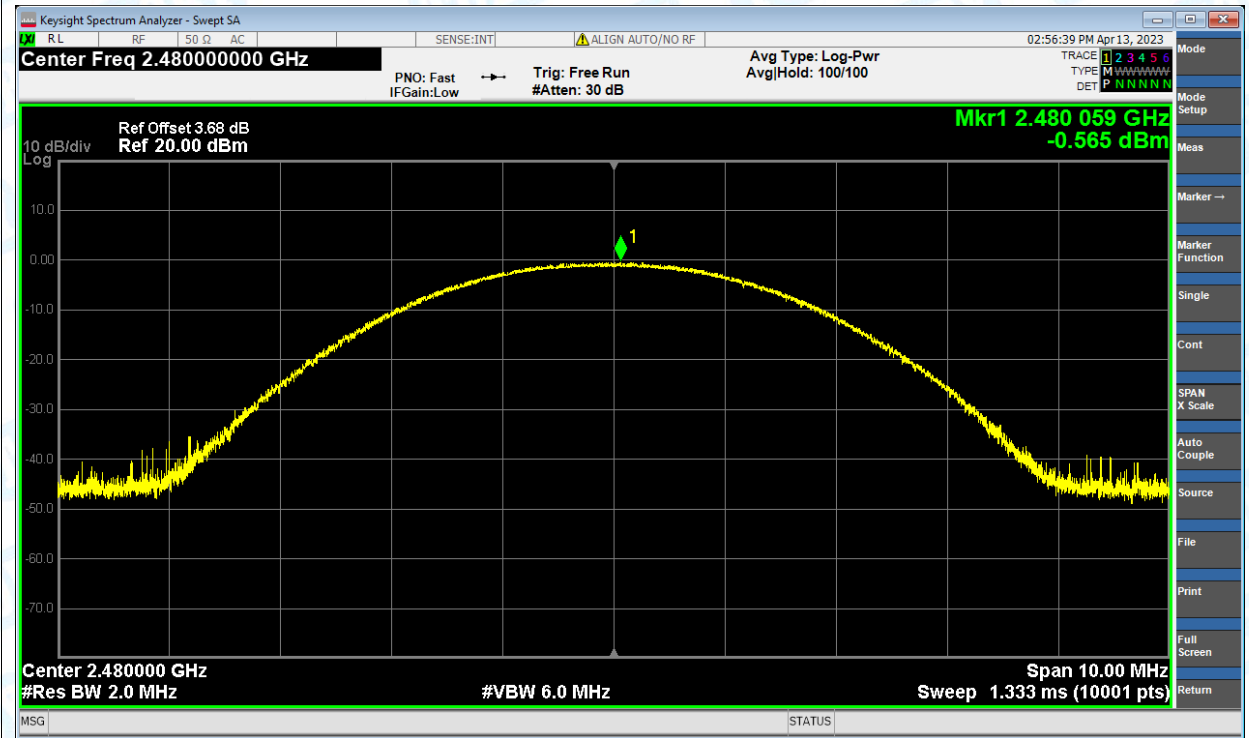
Power NVNT 2-DH1 2402MHz Ant1



Power NVNT 2-DH1 2441MHz Ant1



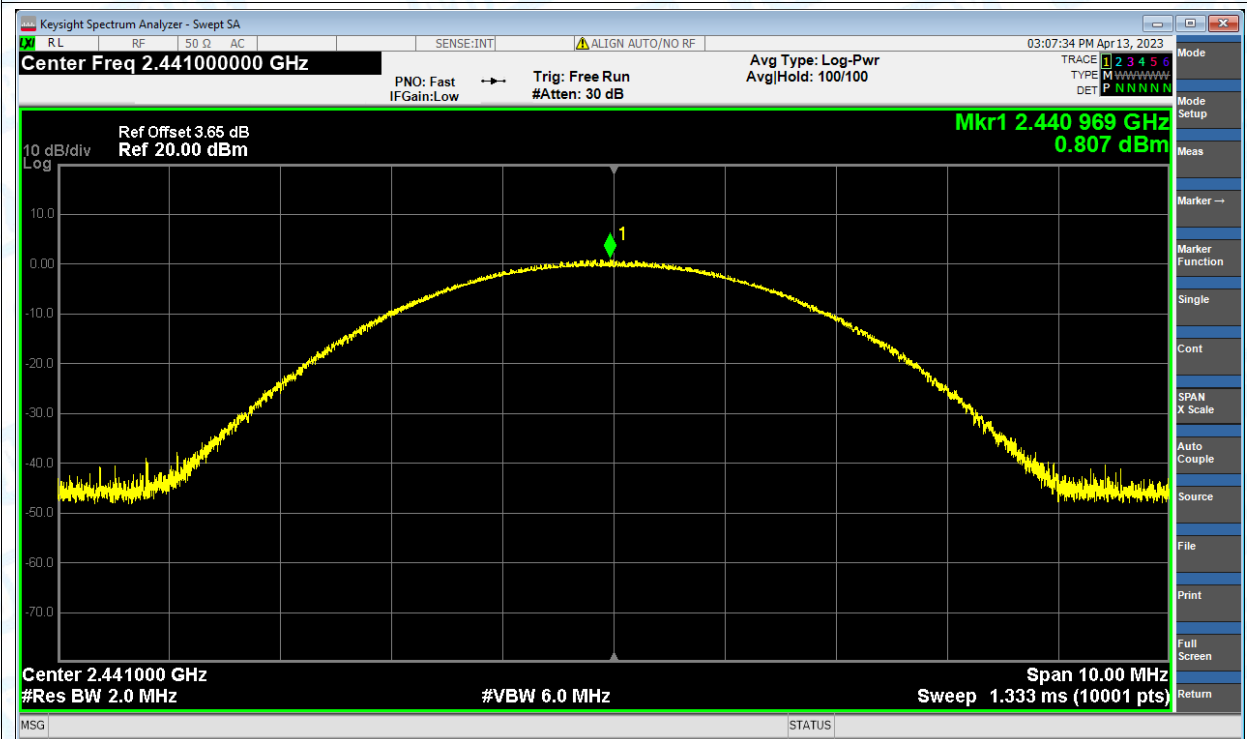
Power NVNT 2-DH1 2480MHz Ant1



Power NVNT 3-DH1 2402MHz Ant1



Power NVNT 3-DH1 2441MHz Ant1



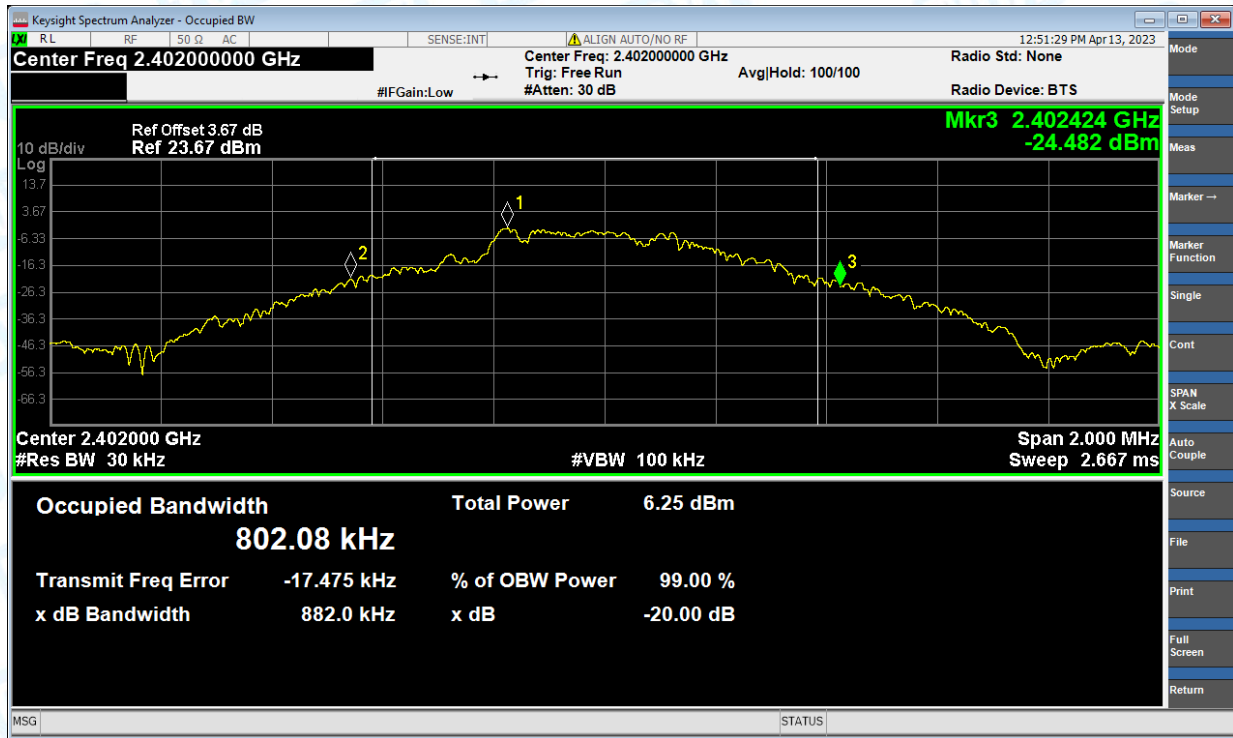


### 3. -20dB Bandwidth

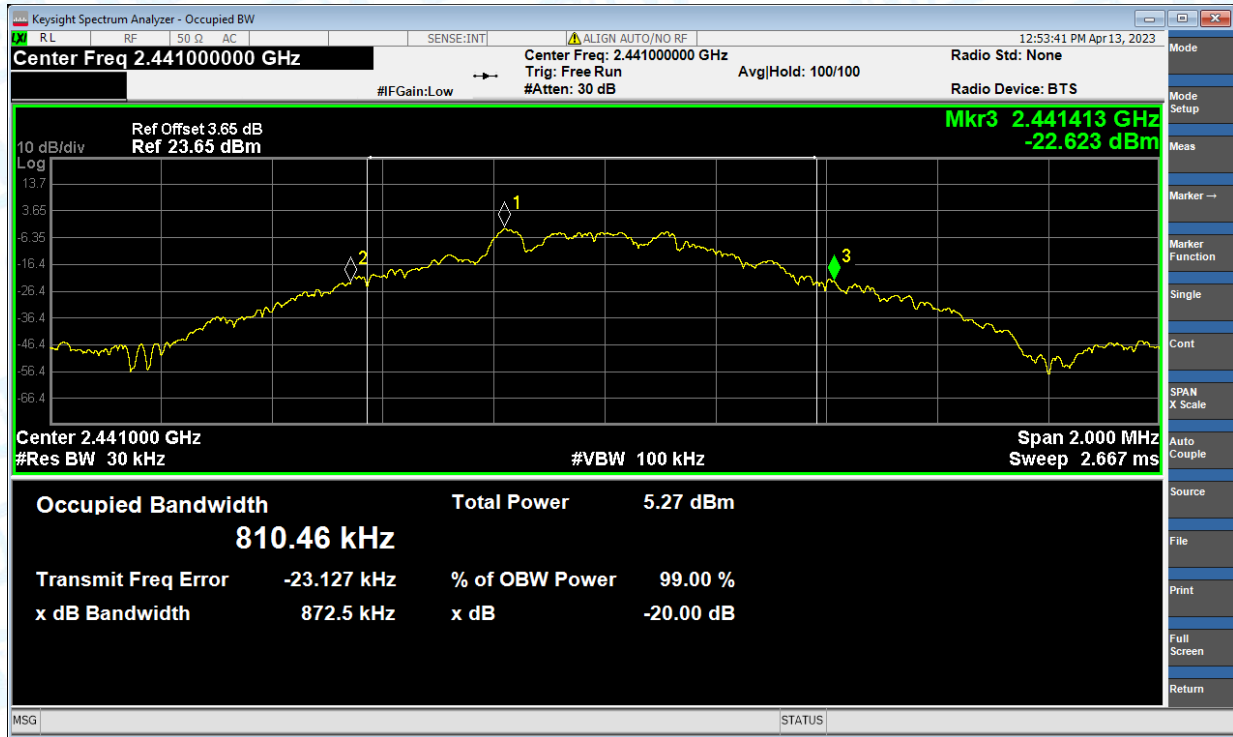
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.88	----	Pass
NVNT	1-DH1	2441	Ant1	0.87	----	Pass
NVNT	1-DH1	2480	Ant1	0.86	----	Pass
NVNT	2-DH1	2402	Ant1	1.24	----	Pass
NVNT	2-DH1	2441	Ant1	1.25	----	Pass
NVNT	2-DH1	2480	Ant1	1.22	----	Pass
NVNT	3-DH1	2402	Ant1	1.2	----	Pass
NVNT	3-DH1	2441	Ant1	1.21	----	Pass
NVNT	3-DH1	2480	Ant1	1.2	----	Pass

Test Graphs

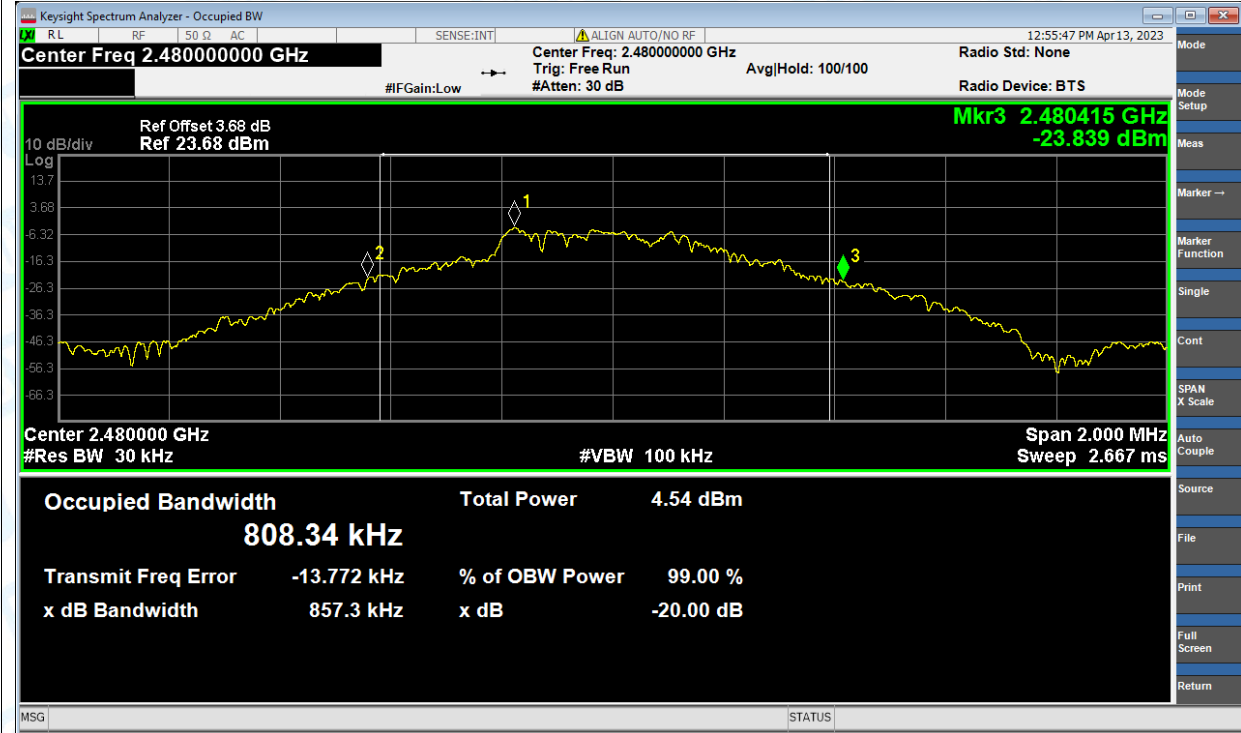
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



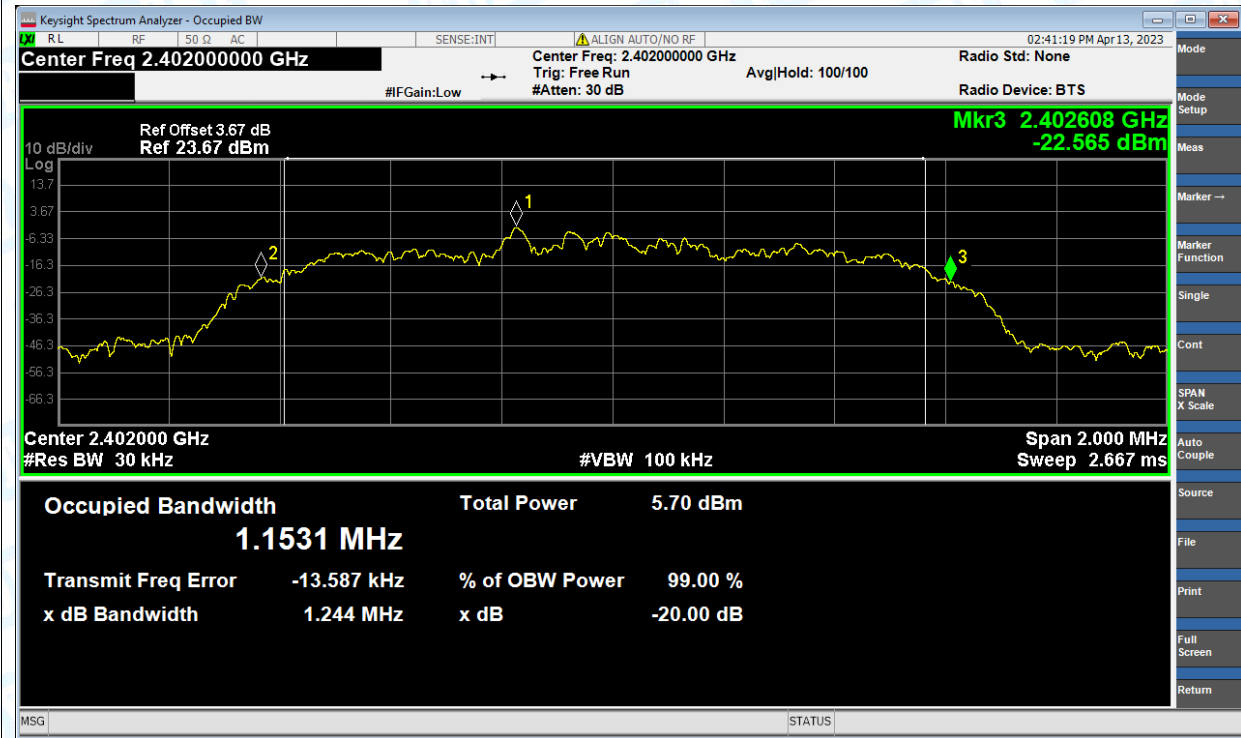
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1

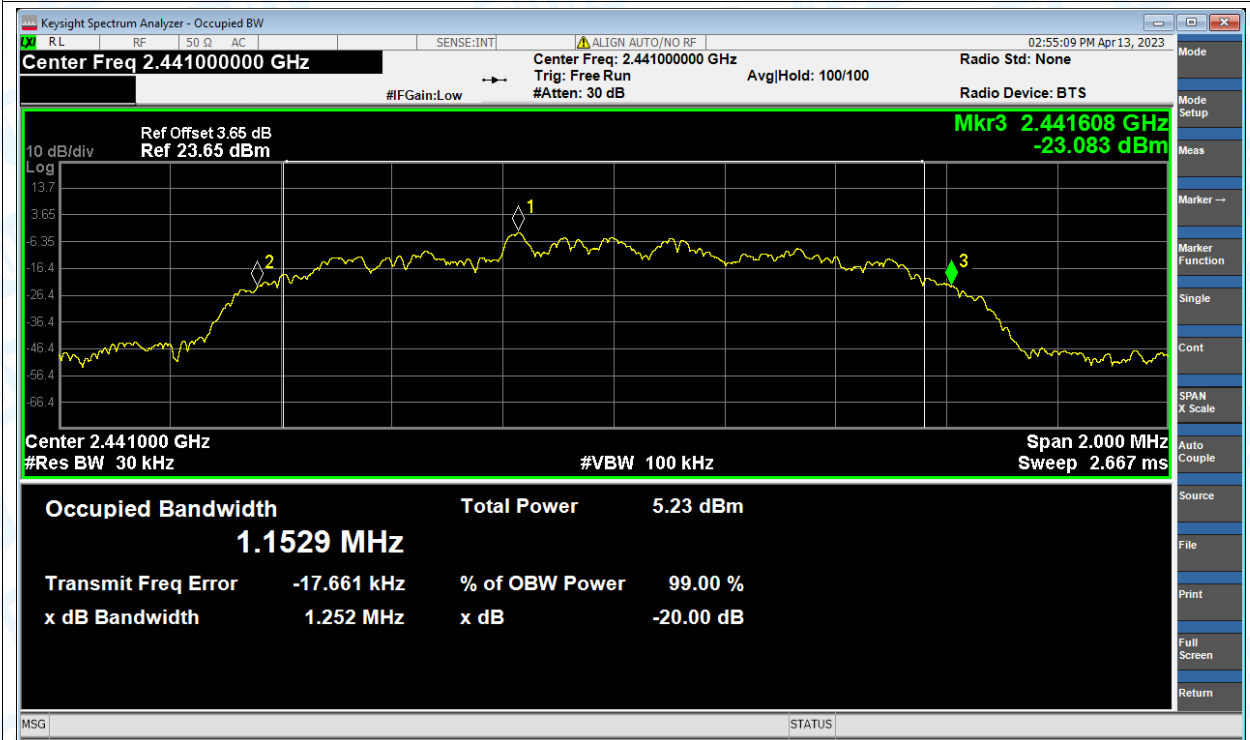


-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1

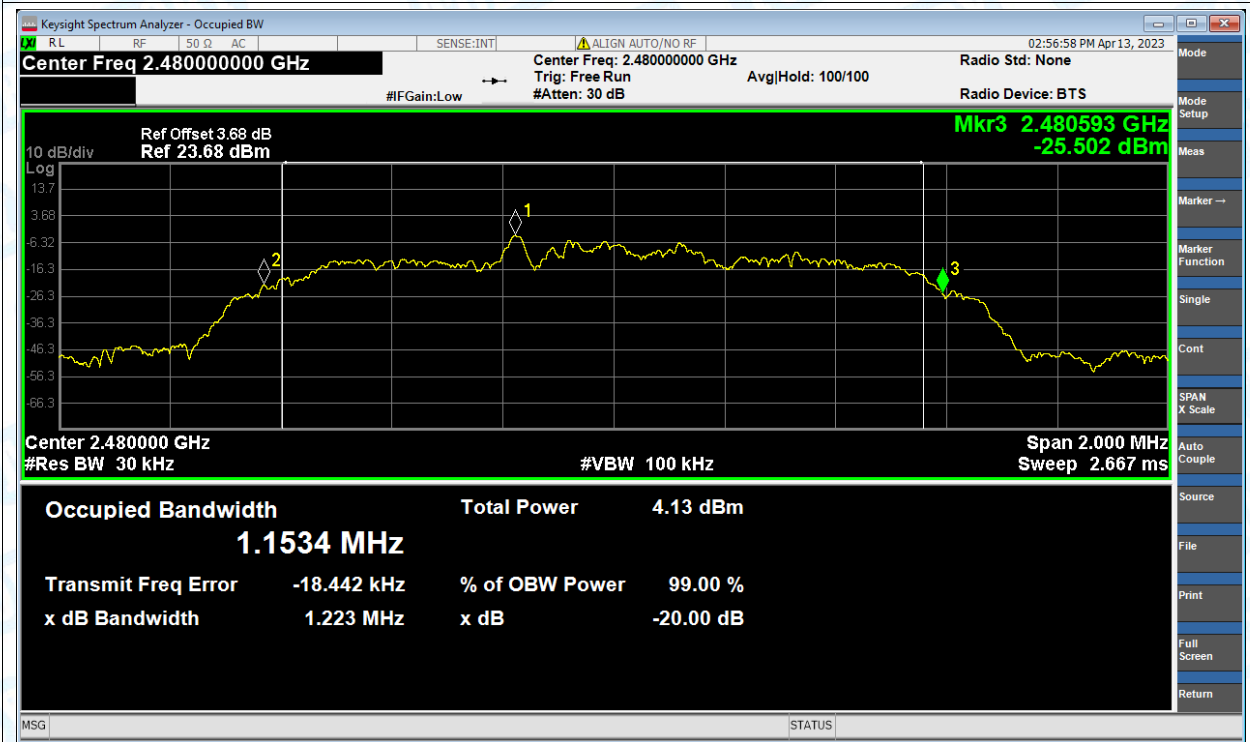




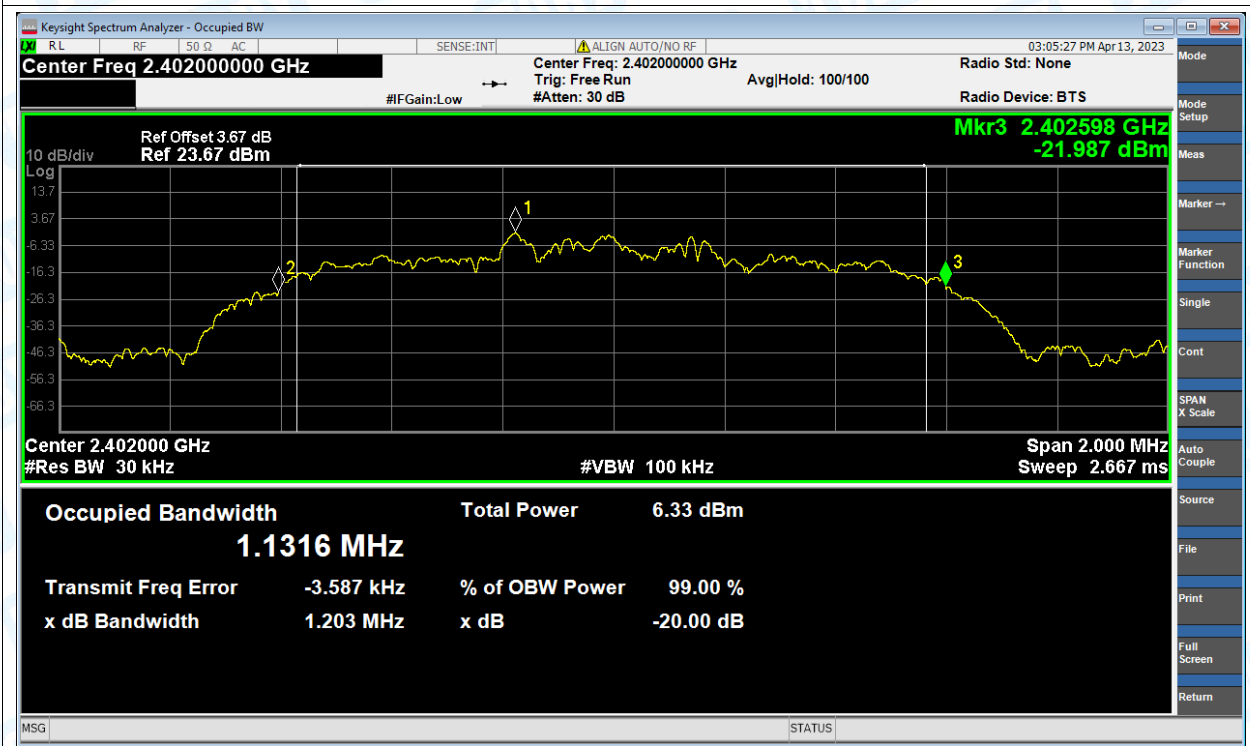
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



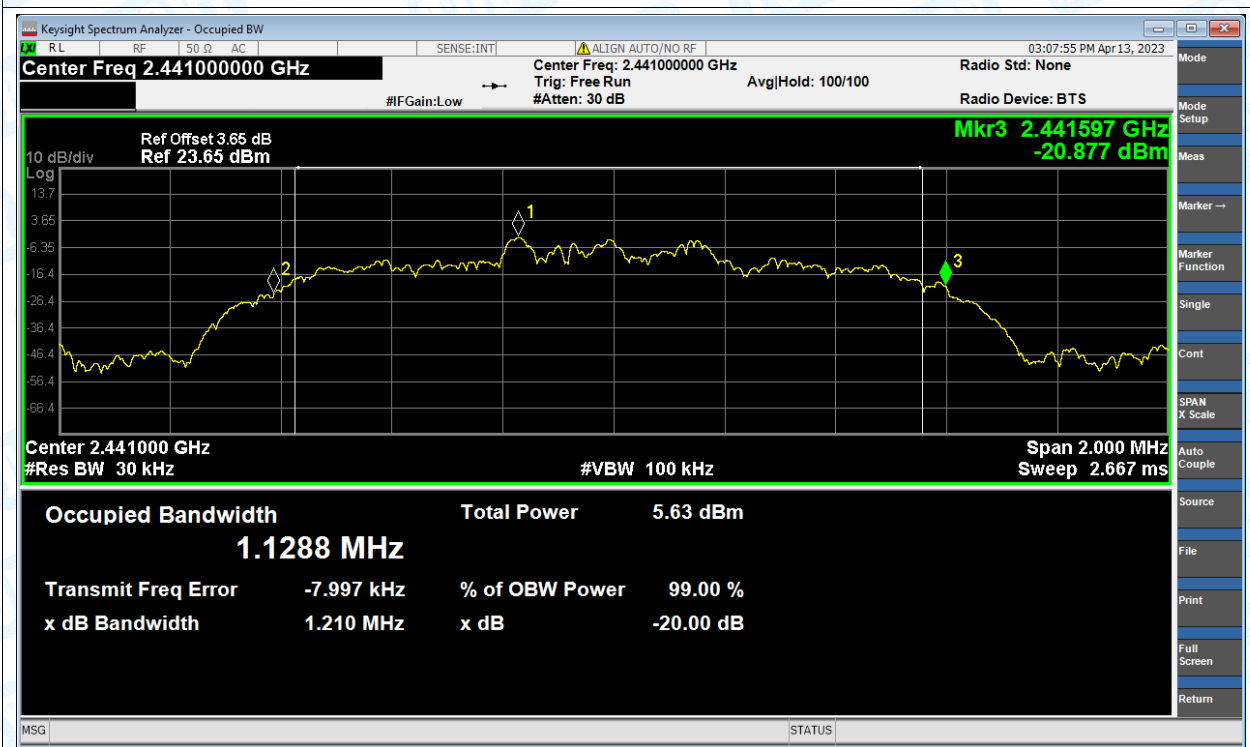
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

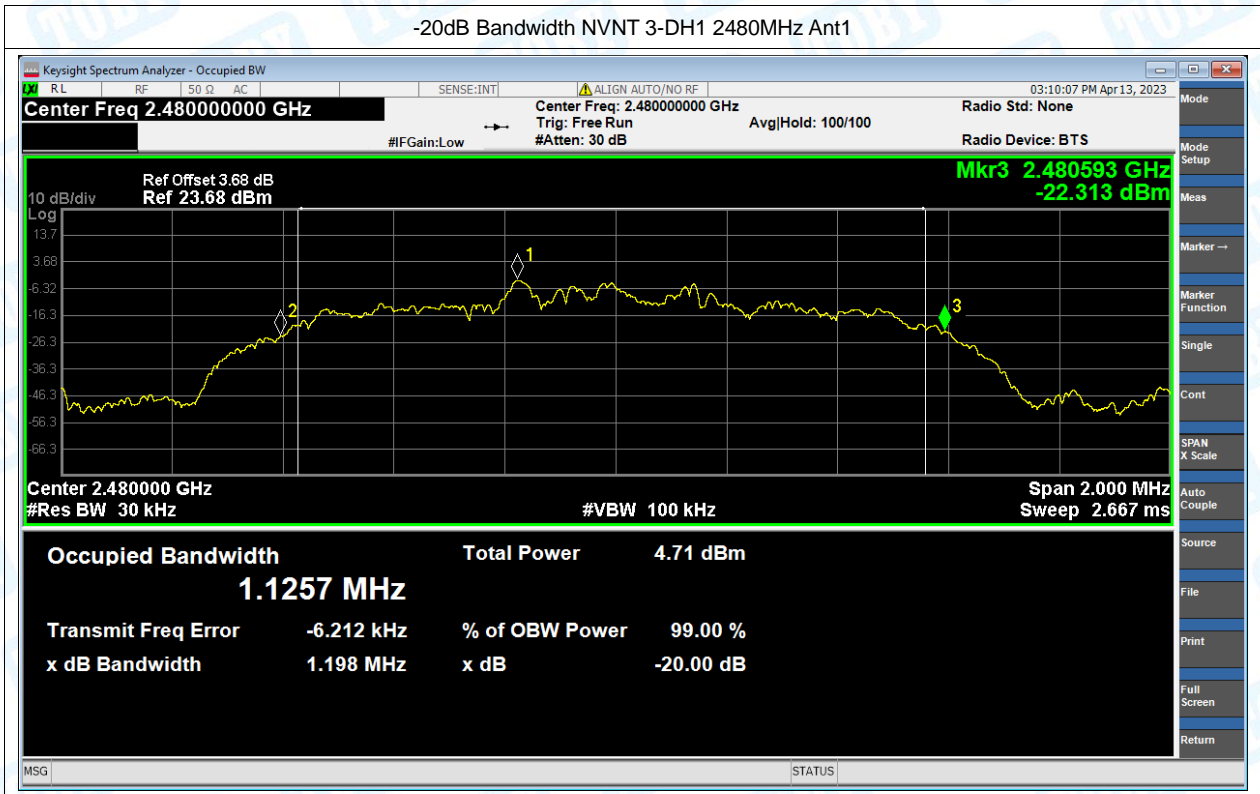


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



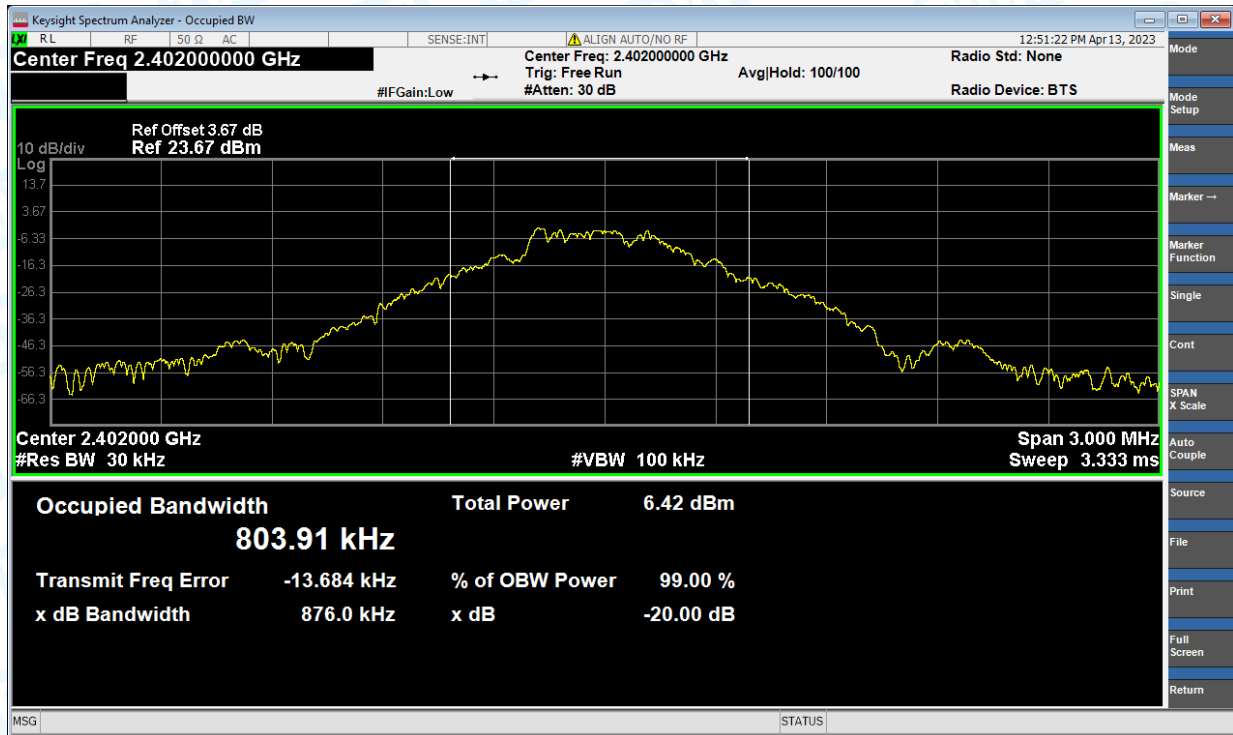


## 4. Occupied Channel Bandwidth

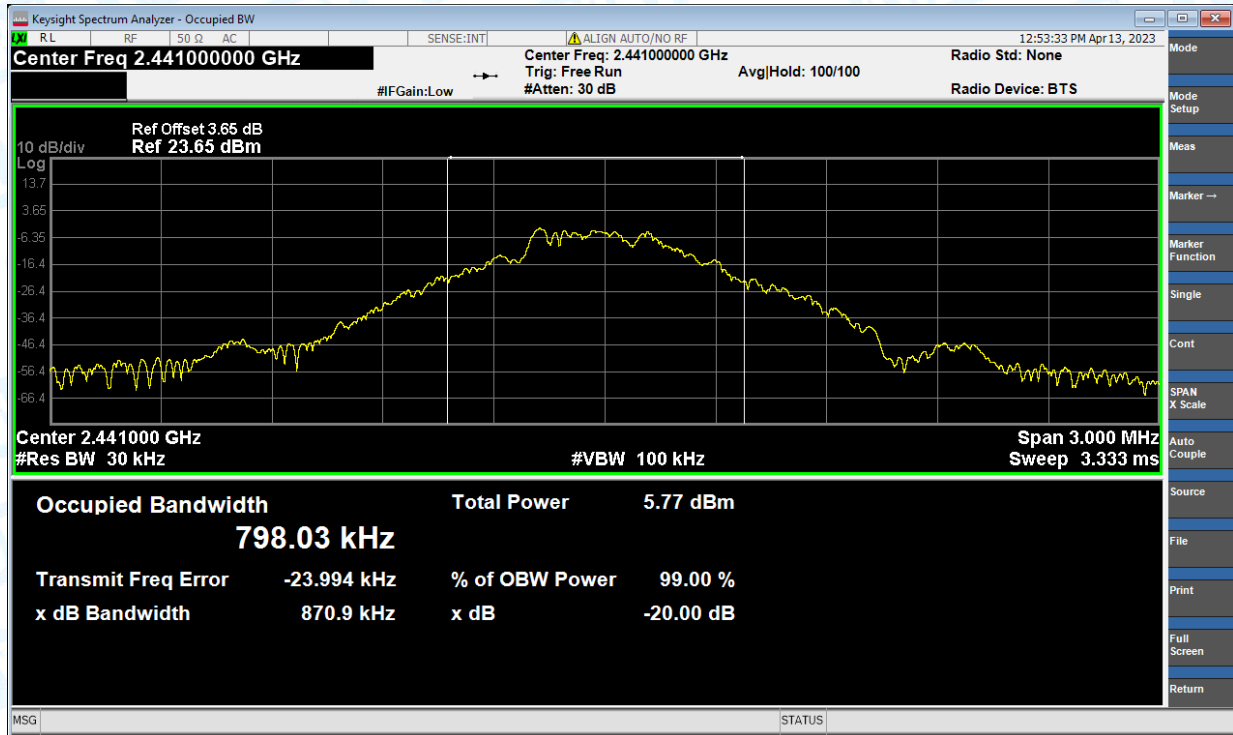
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.804
NVNT	1-DH1	2441	Ant1	0.798
NVNT	1-DH1	2480	Ant1	0.797
NVNT	2-DH1	2402	Ant1	1.138
NVNT	2-DH1	2441	Ant1	1.148
NVNT	2-DH1	2480	Ant1	1.151
NVNT	3-DH1	2402	Ant1	1.125
NVNT	3-DH1	2441	Ant1	1.124
NVNT	3-DH1	2480	Ant1	1.135

Test Graphs

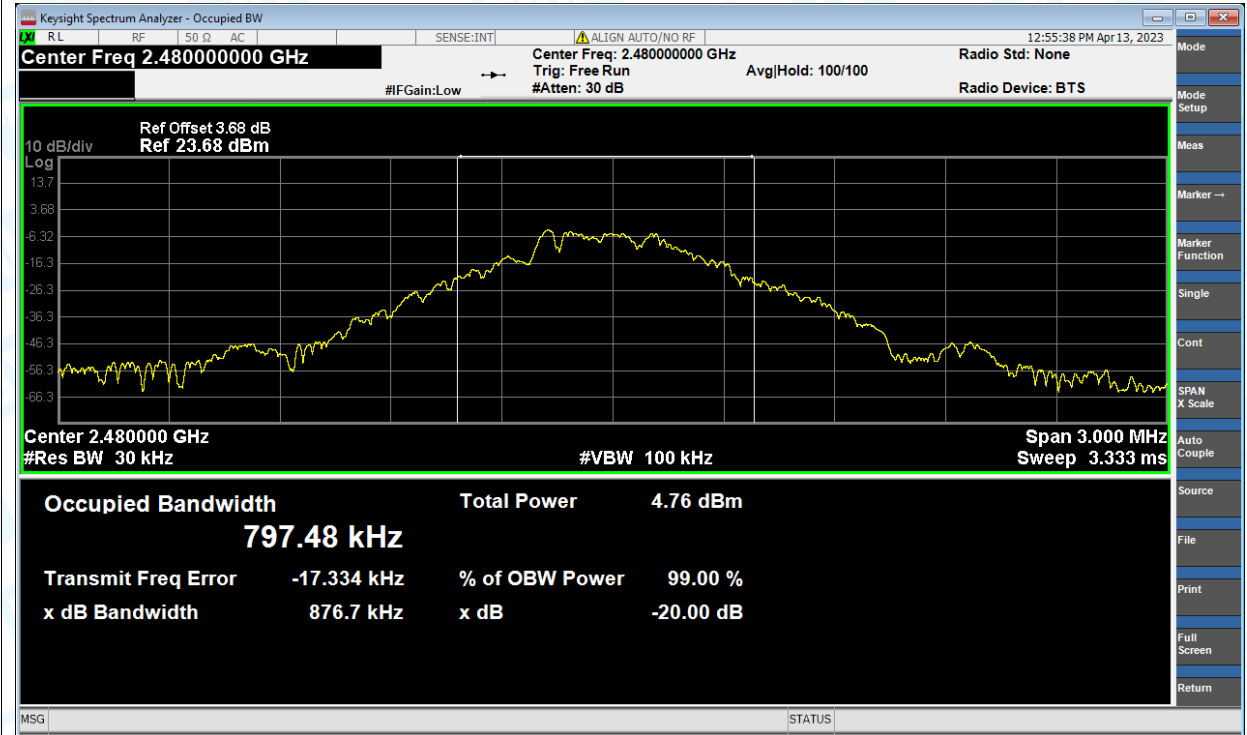
OBW NVNT 1-DH1 2402MHz Ant1



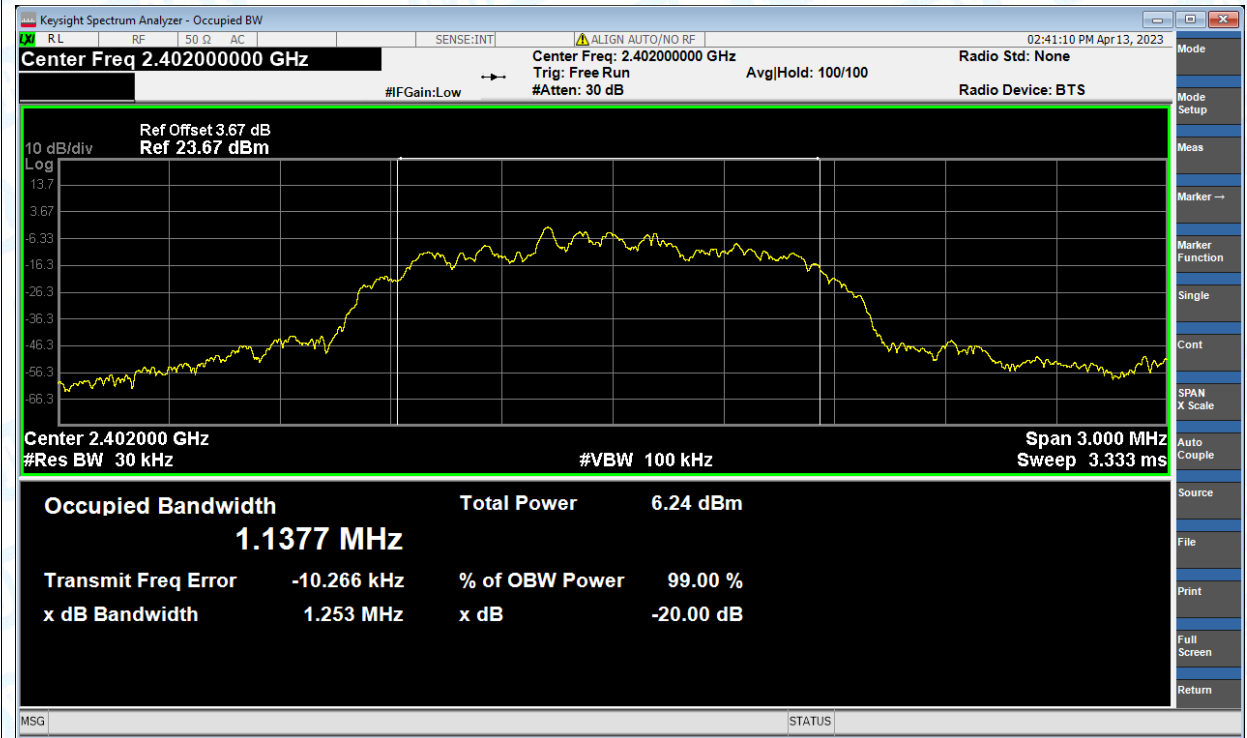
OBW NVNT 1-DH1 2441MHz Ant1



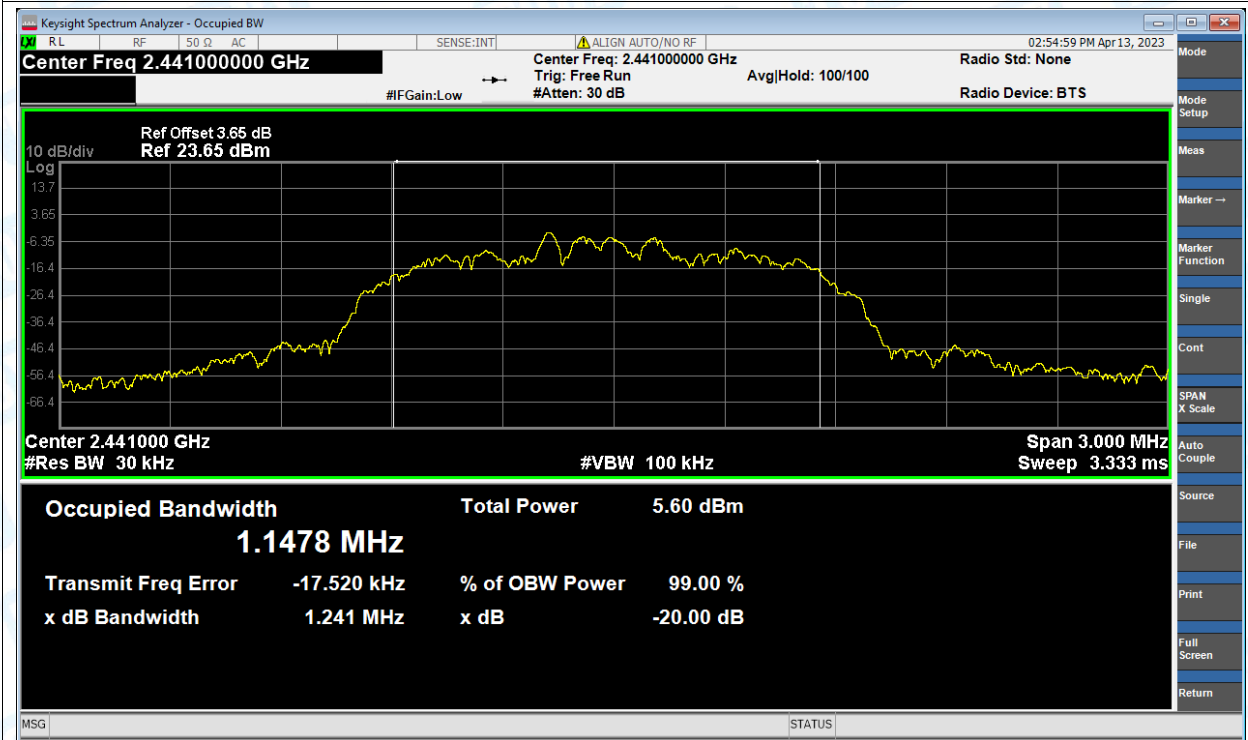
OBW NVNT 1-DH1 2480MHz Ant1



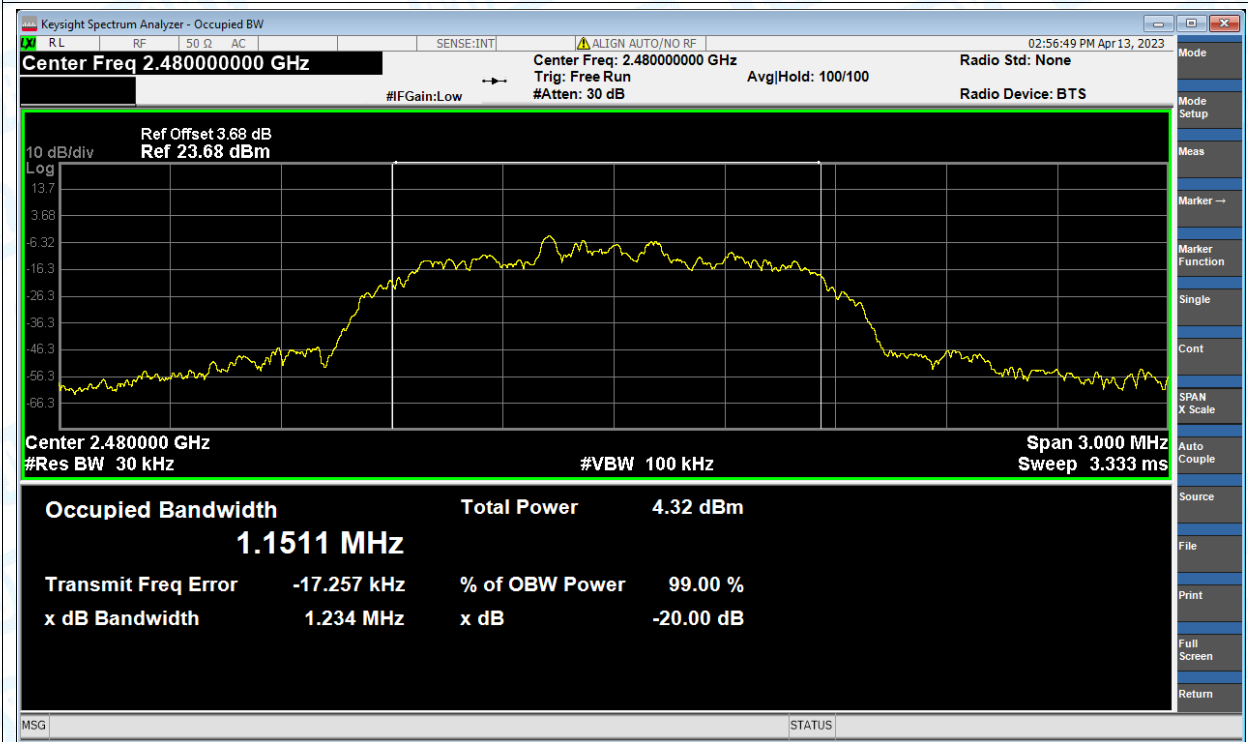
OBW NVNT 2-DH1 2402MHz Ant1



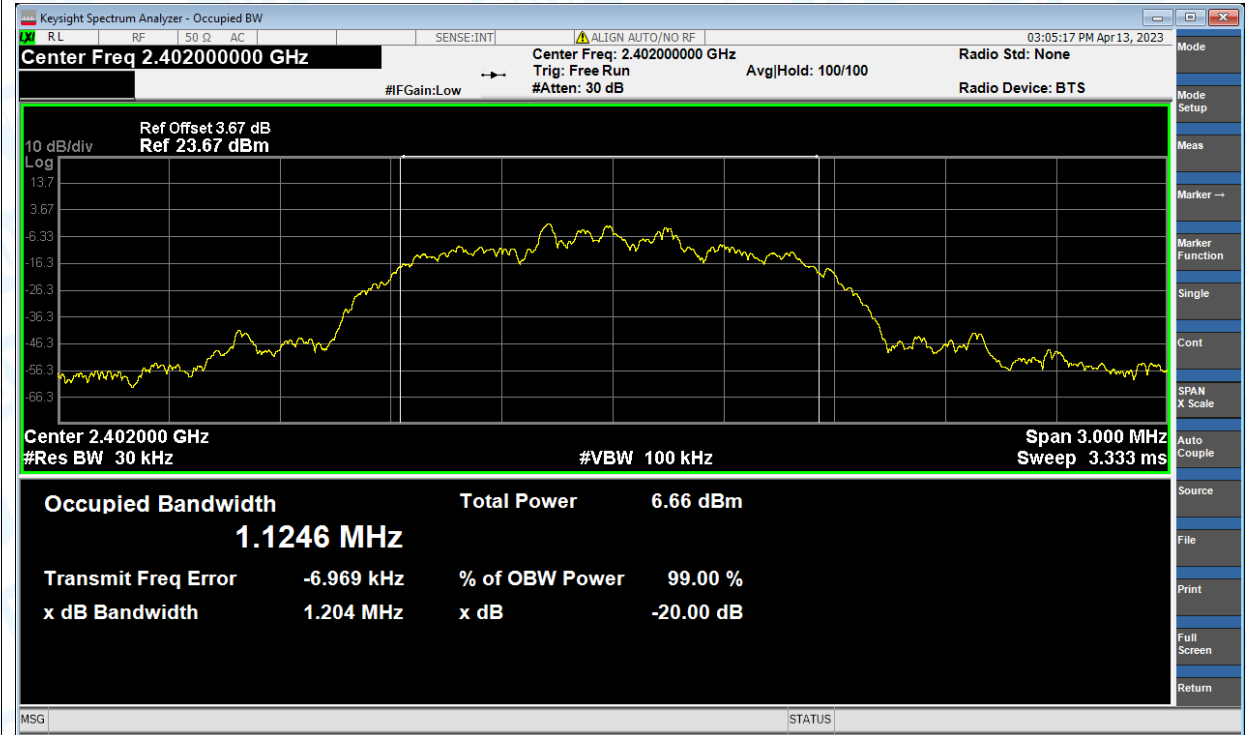
OBW NVNT 2-DH1 2441MHz Ant1



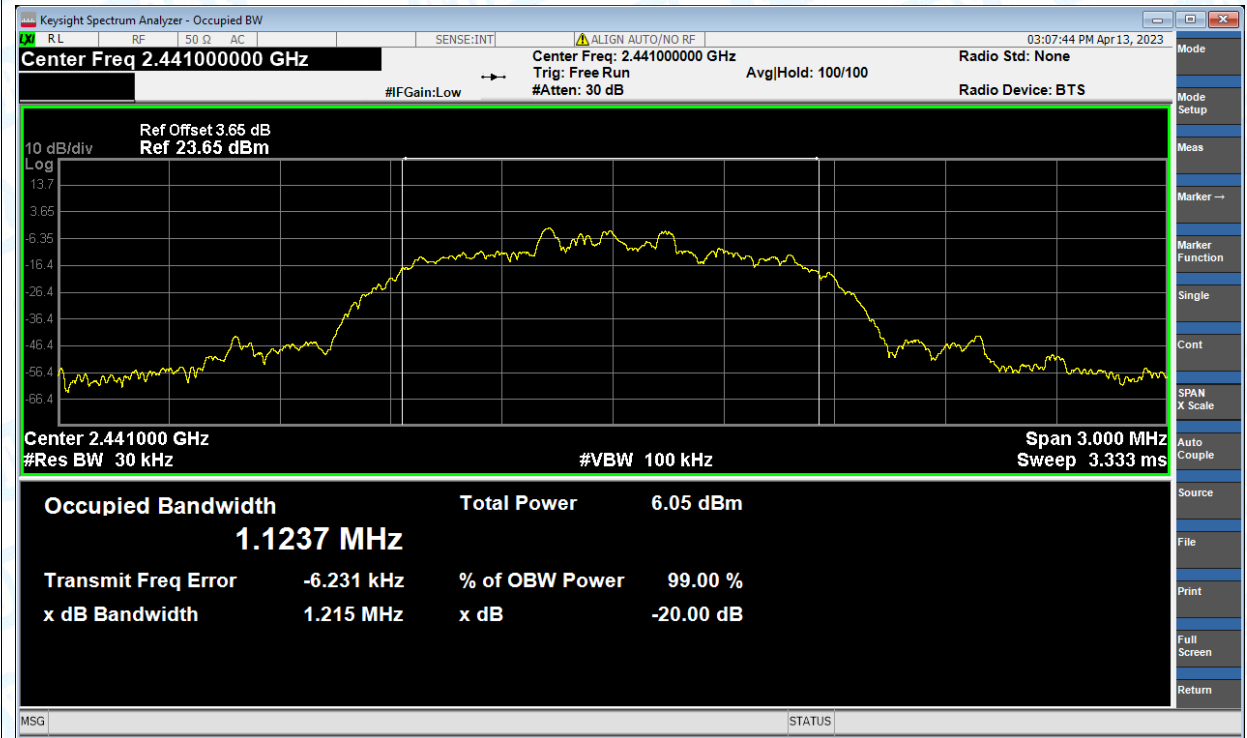
OBW NVNT 2-DH1 2480MHz Ant1



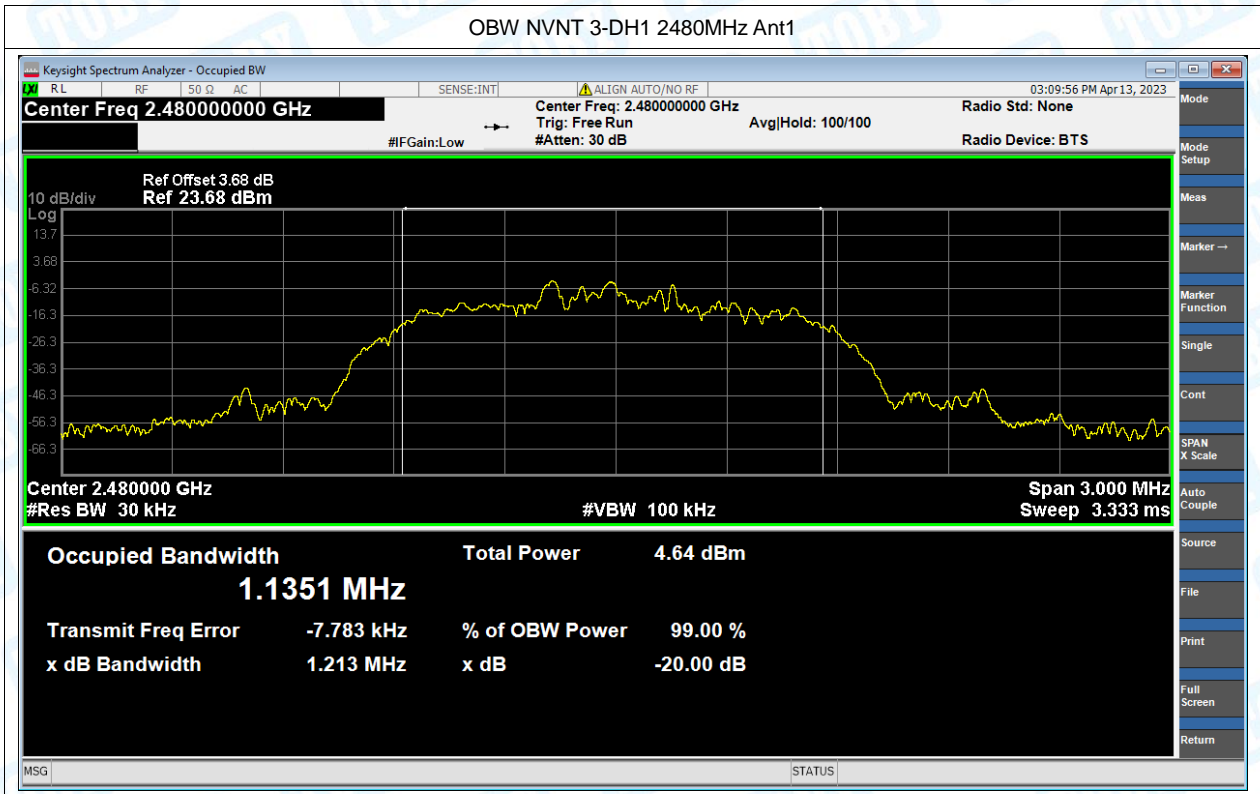
OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1





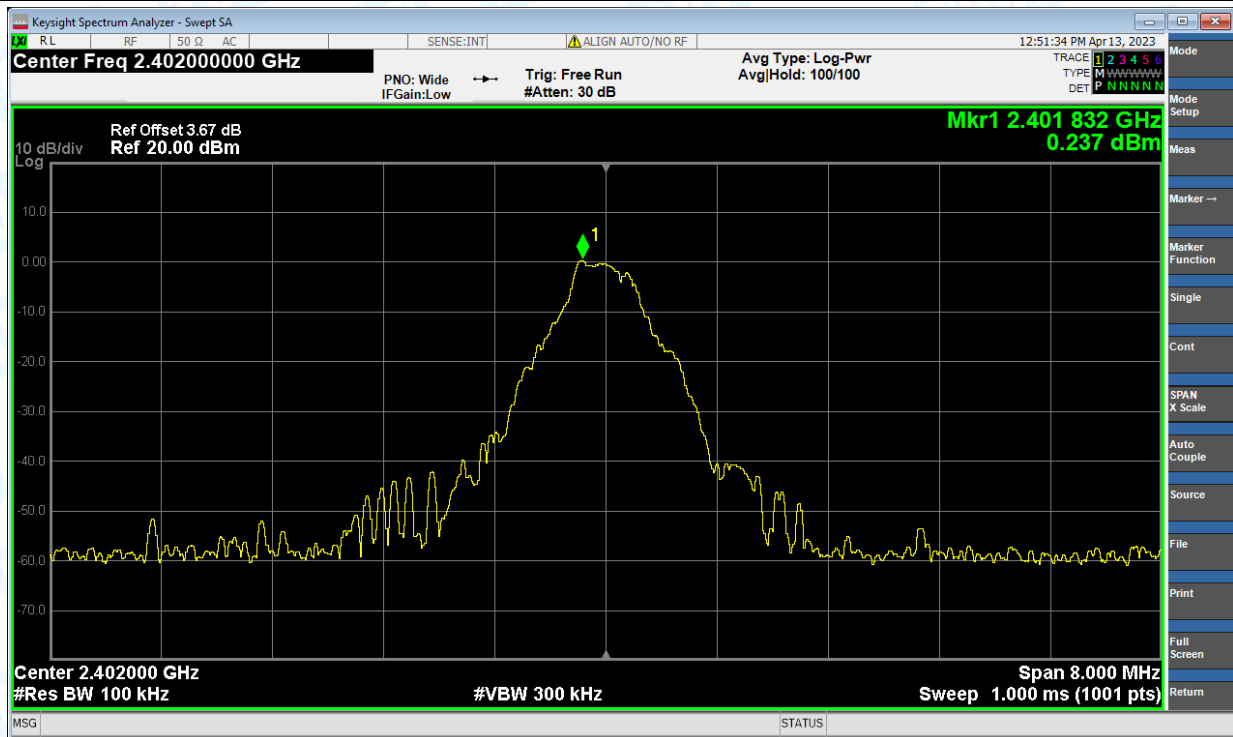


## 5. Band Edge

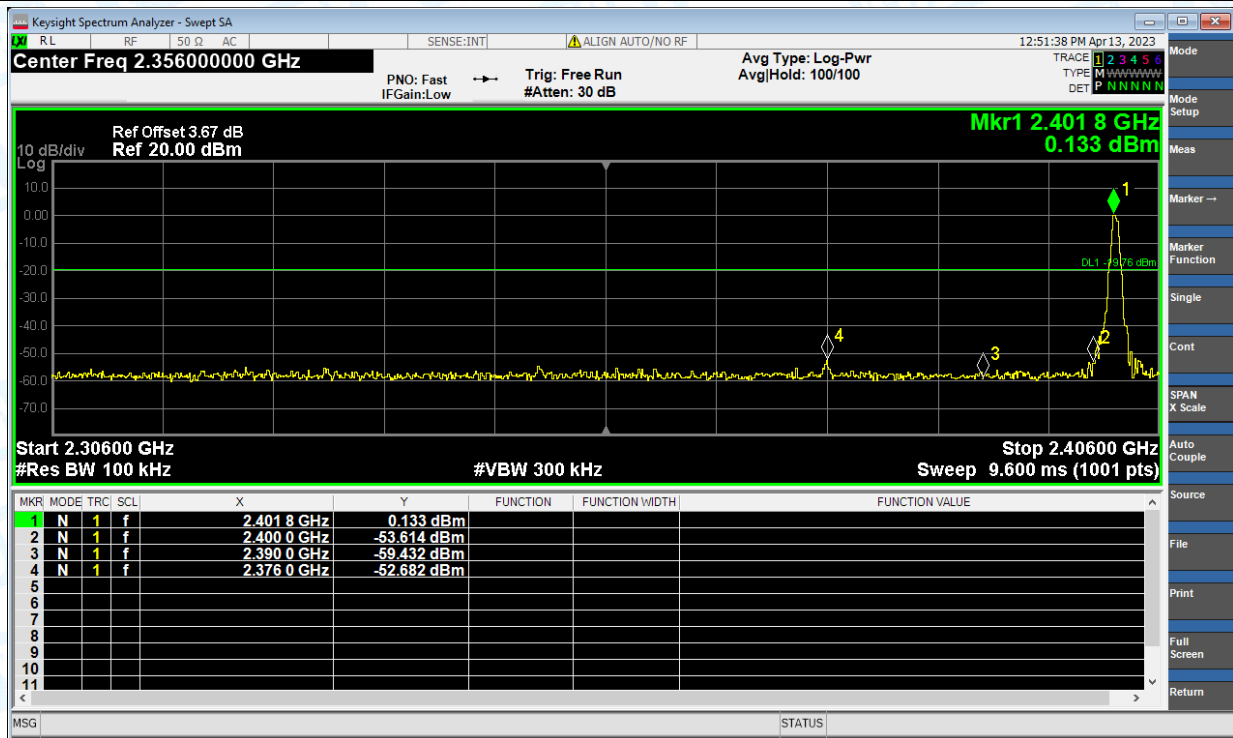
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-52.92	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-53.6	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-53.3	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-53.84	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-52.19	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-53.26	-20	Pass

Test Graphs

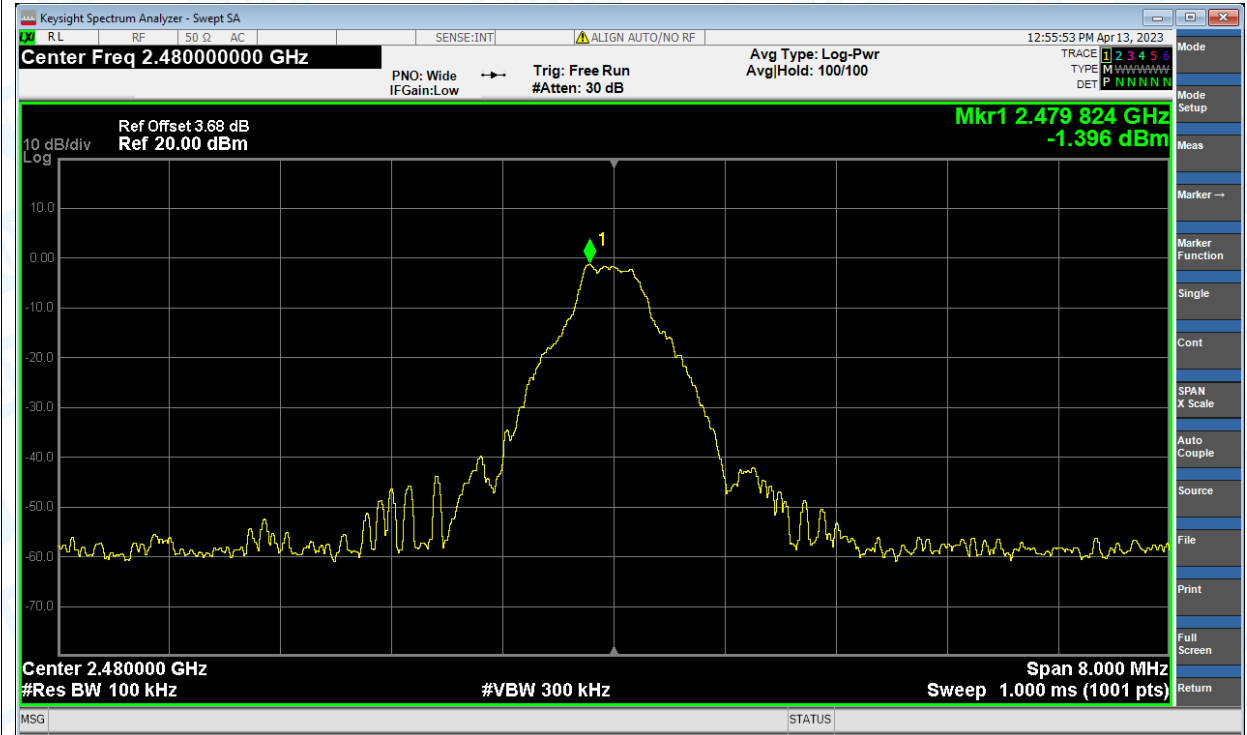
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



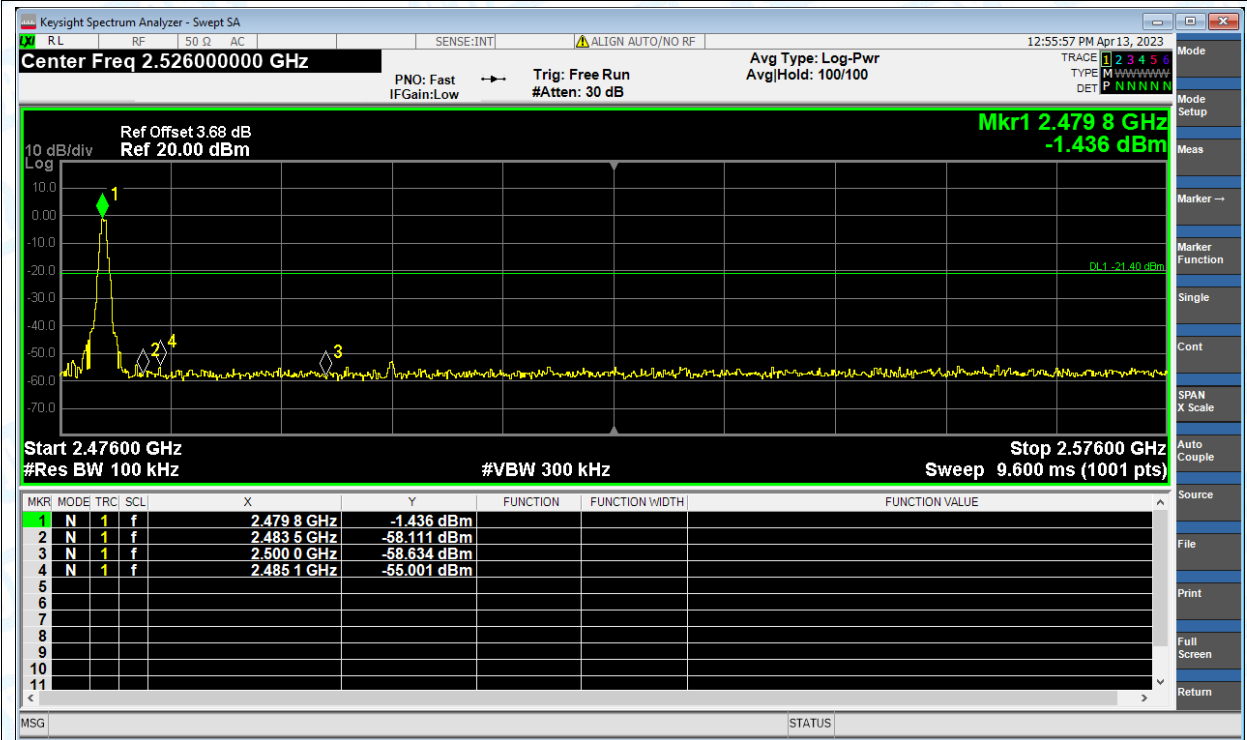
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



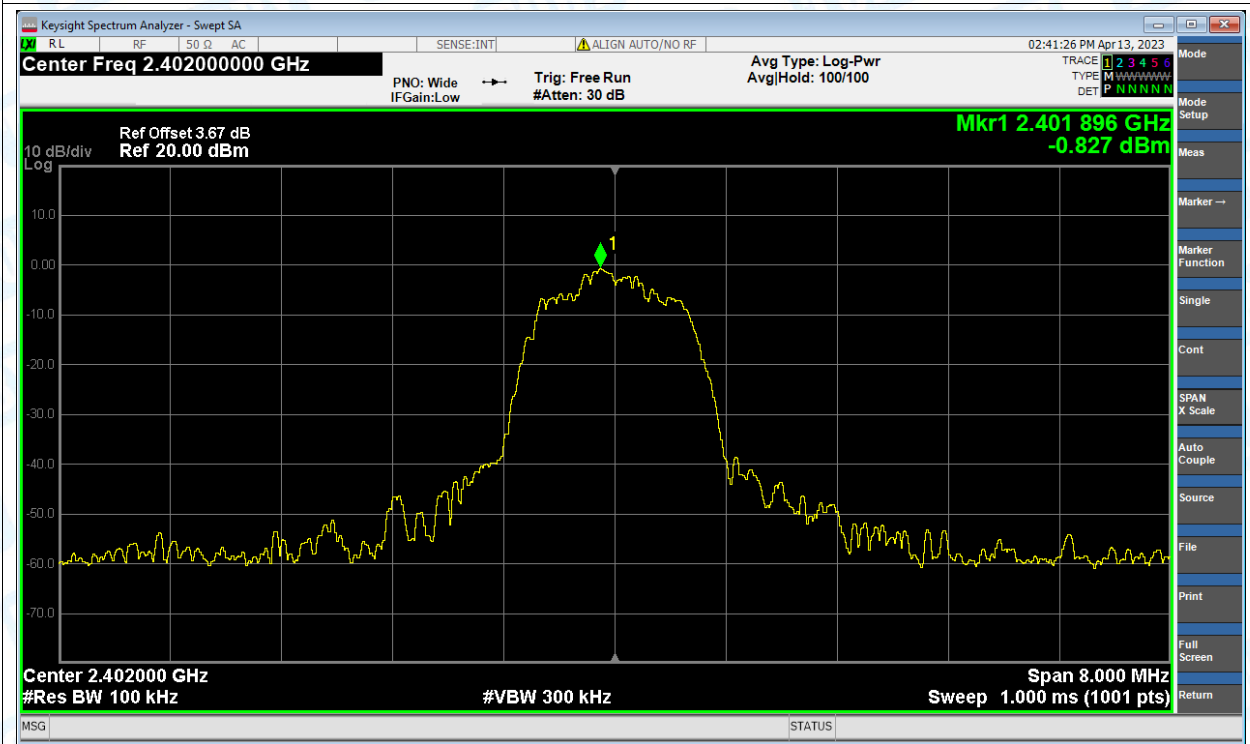
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



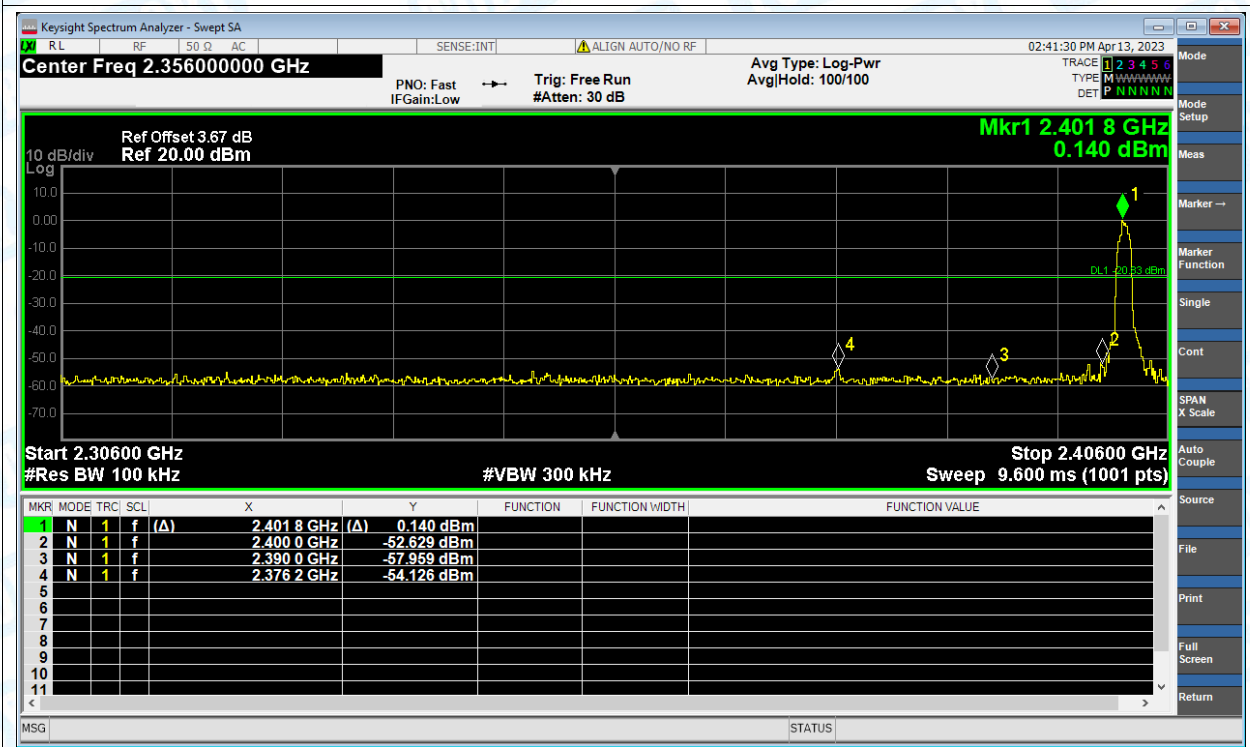
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



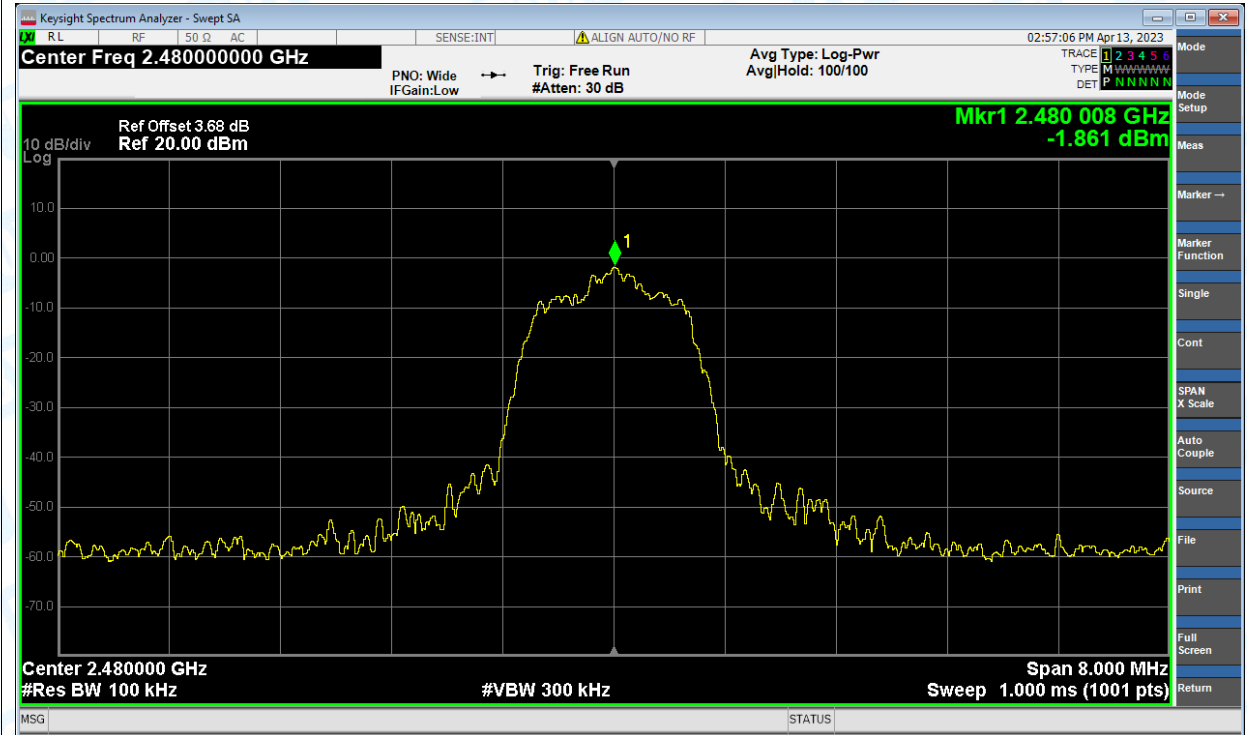
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



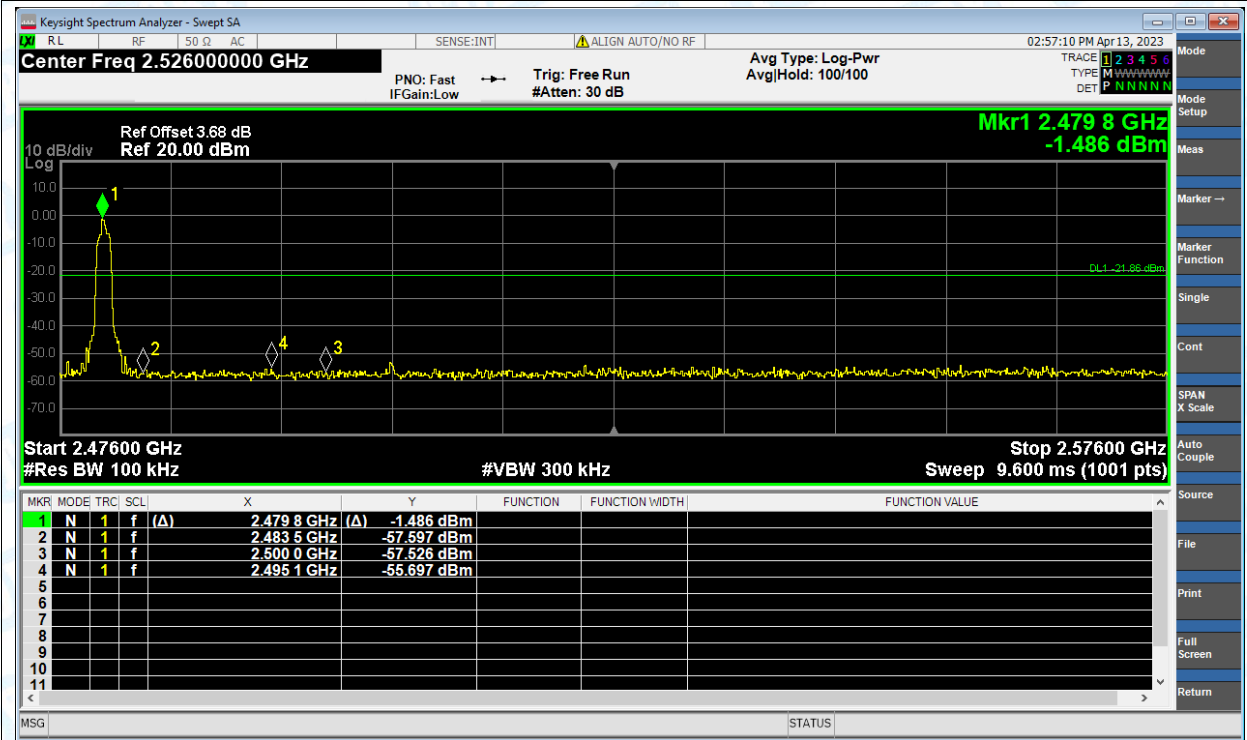
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission

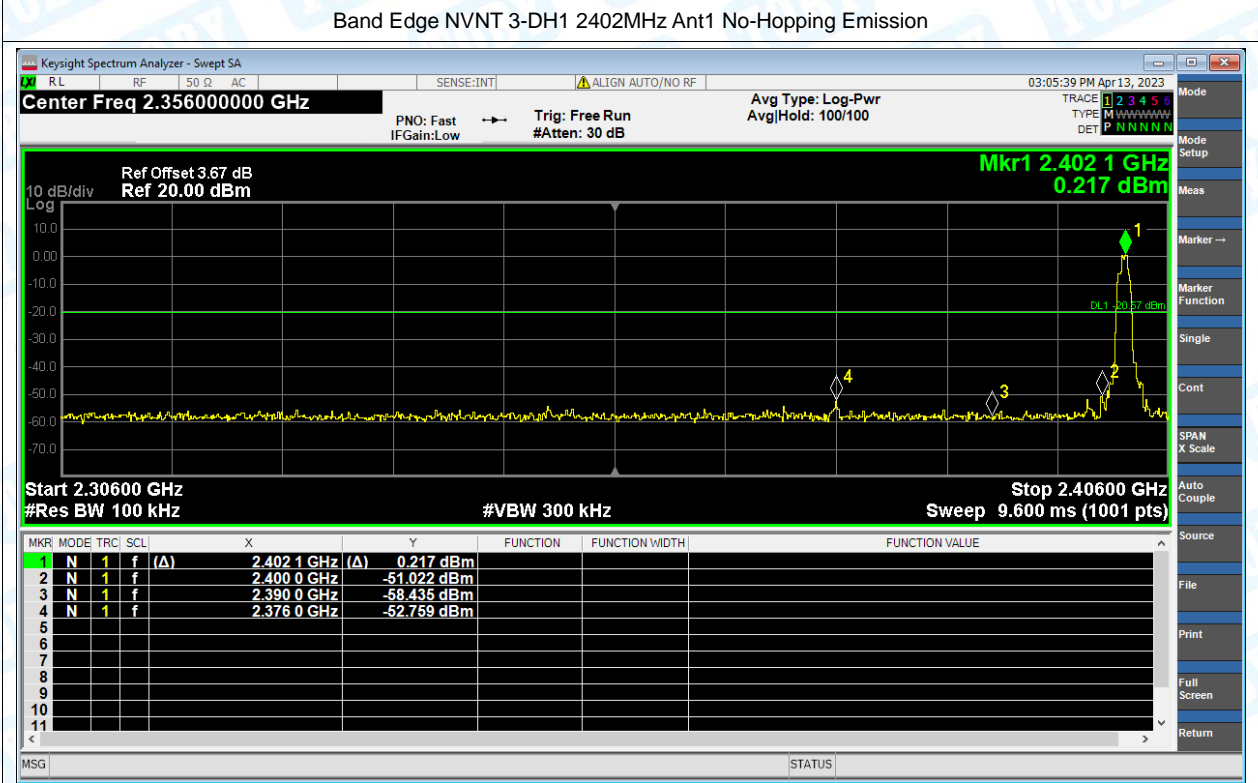
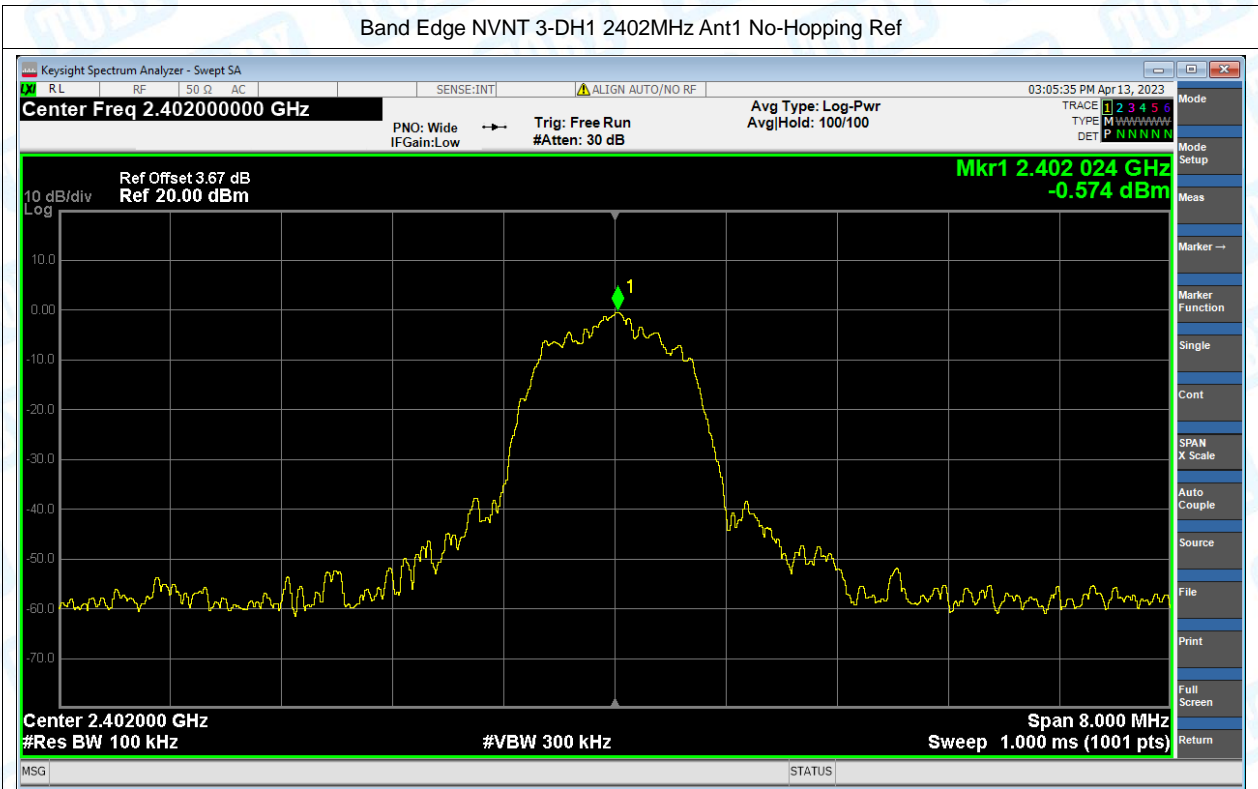


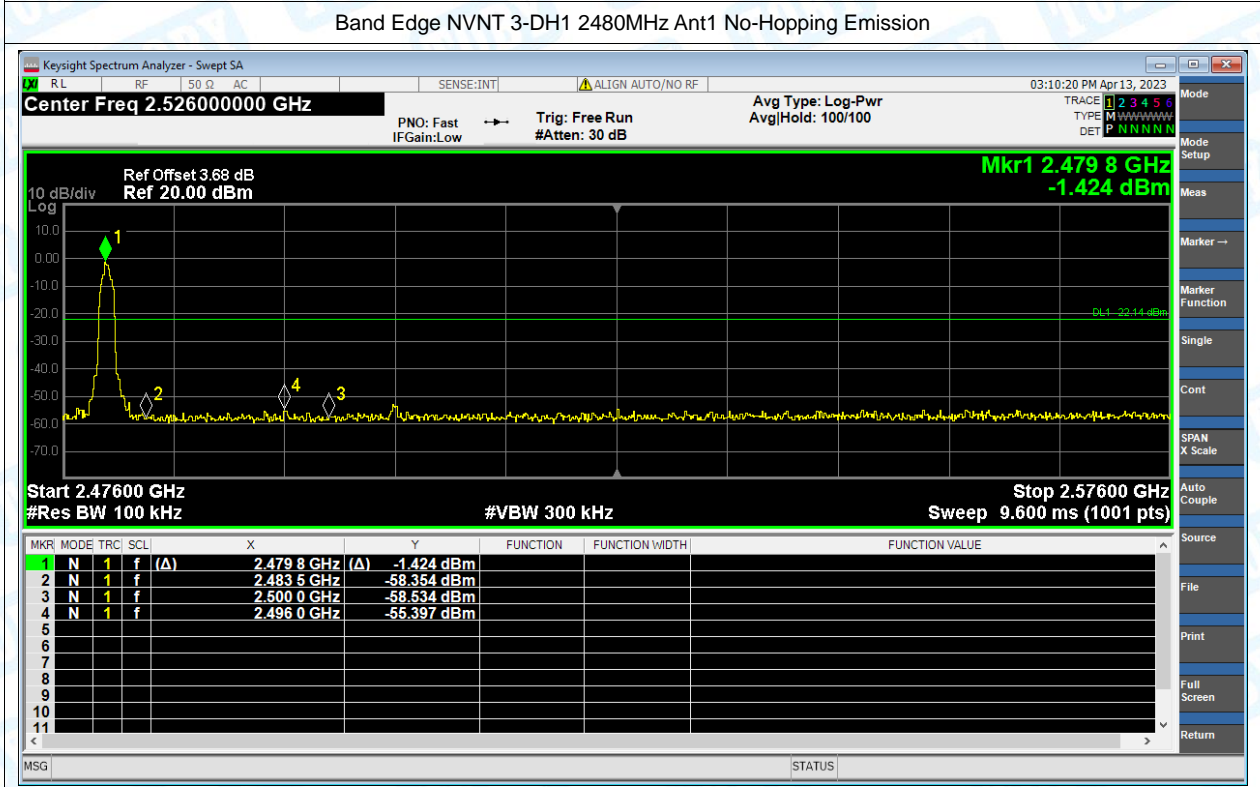
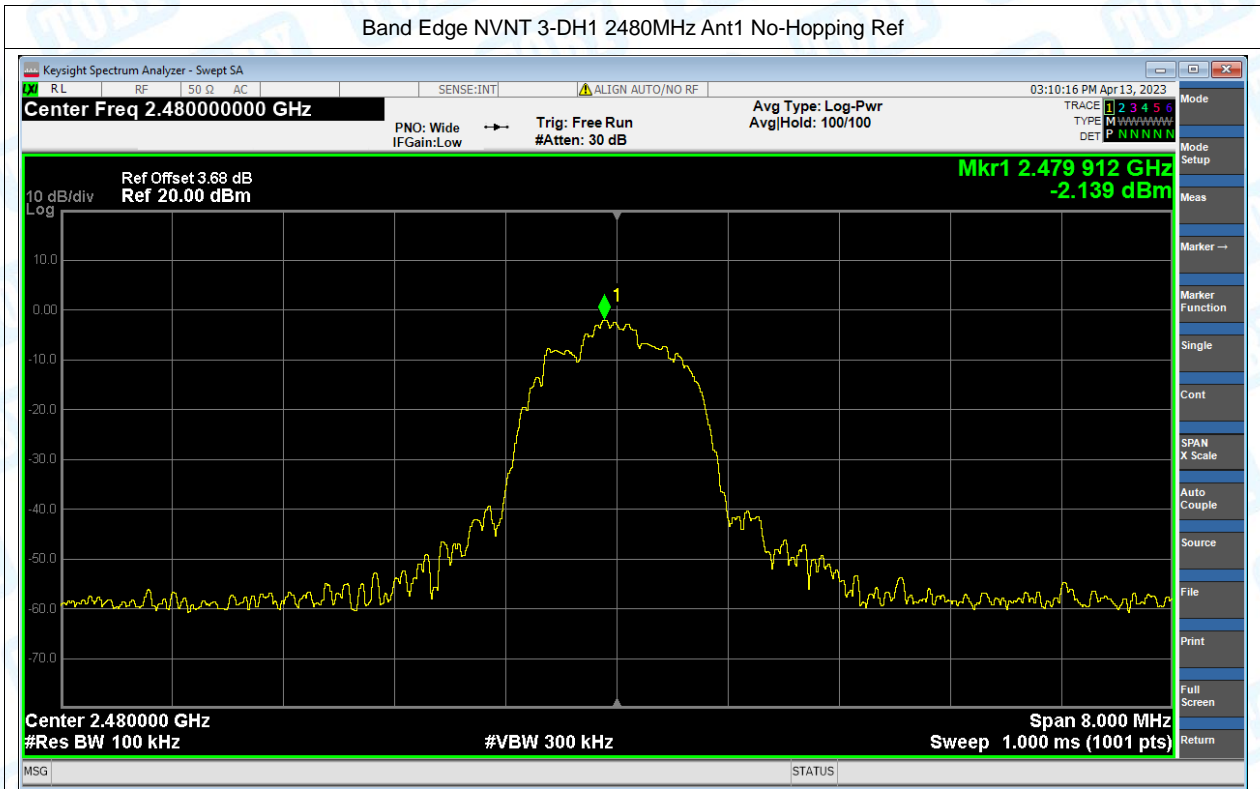
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Ref



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







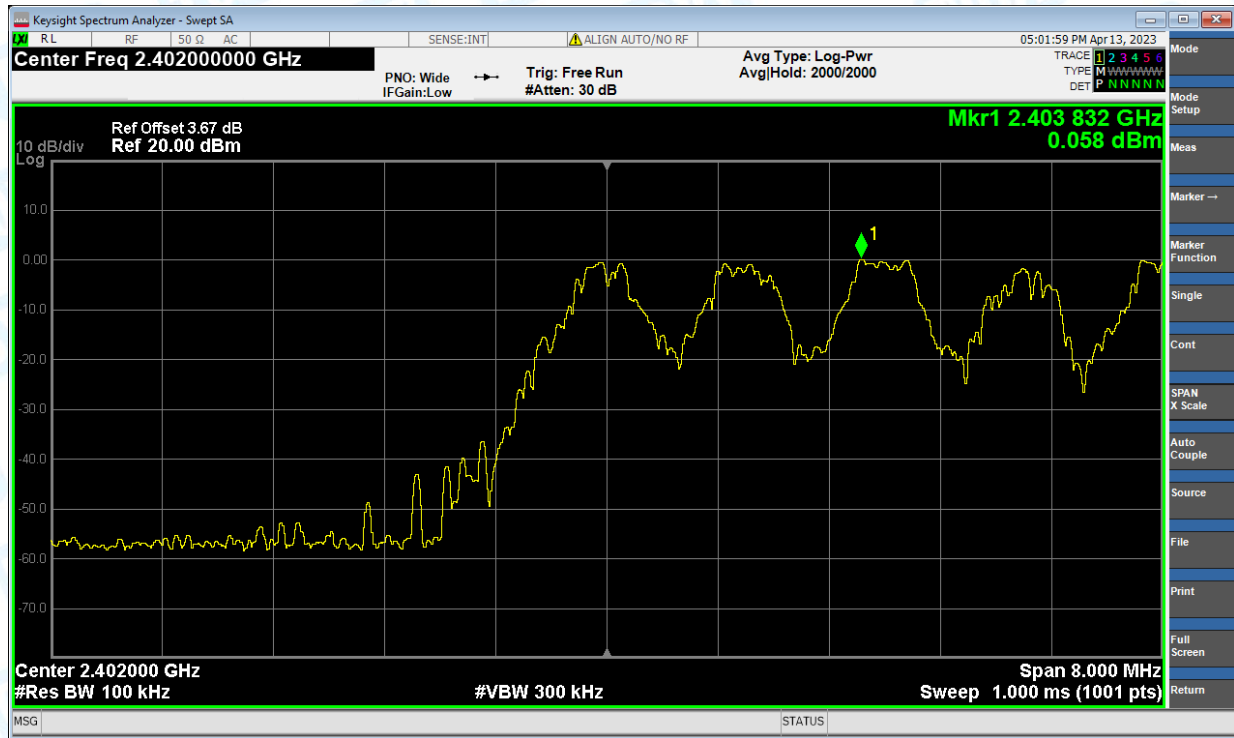


## 6. Band Edge(Hopping)

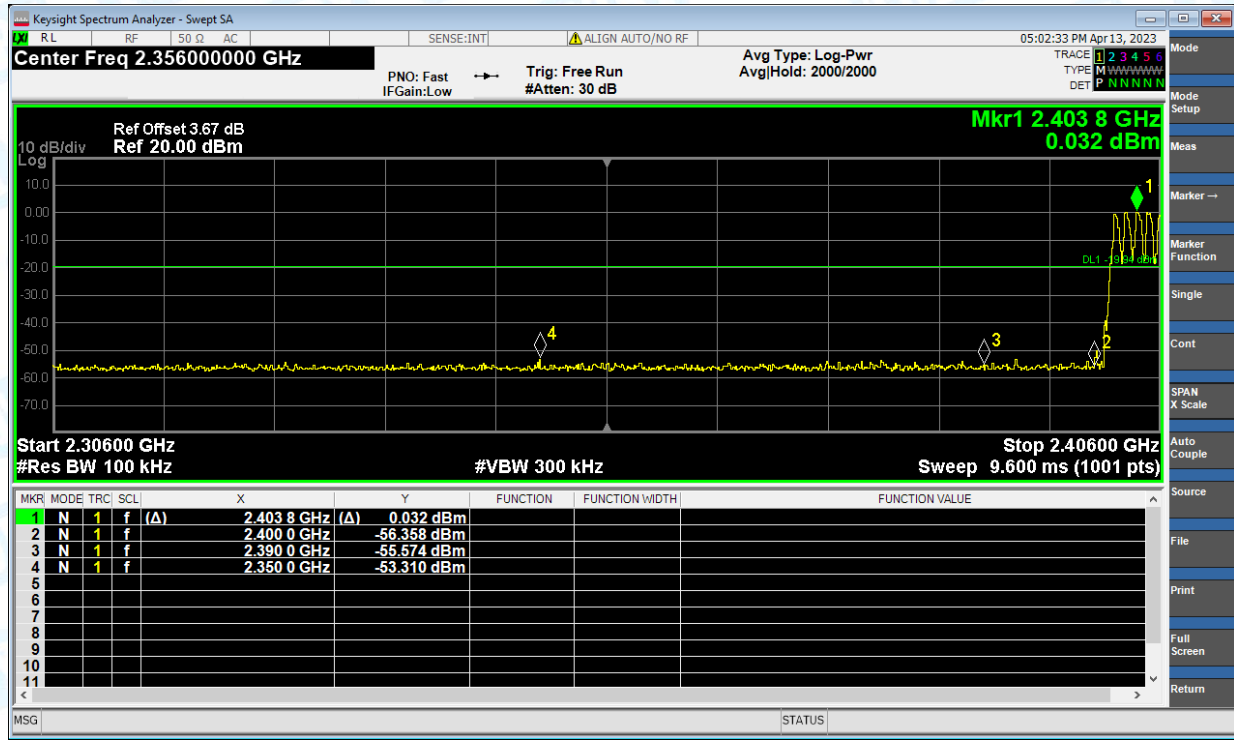
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-53.37	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-50.45	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-52.91	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-51.23	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-54.02	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-50.64	-20	Pass

Test Graphs

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



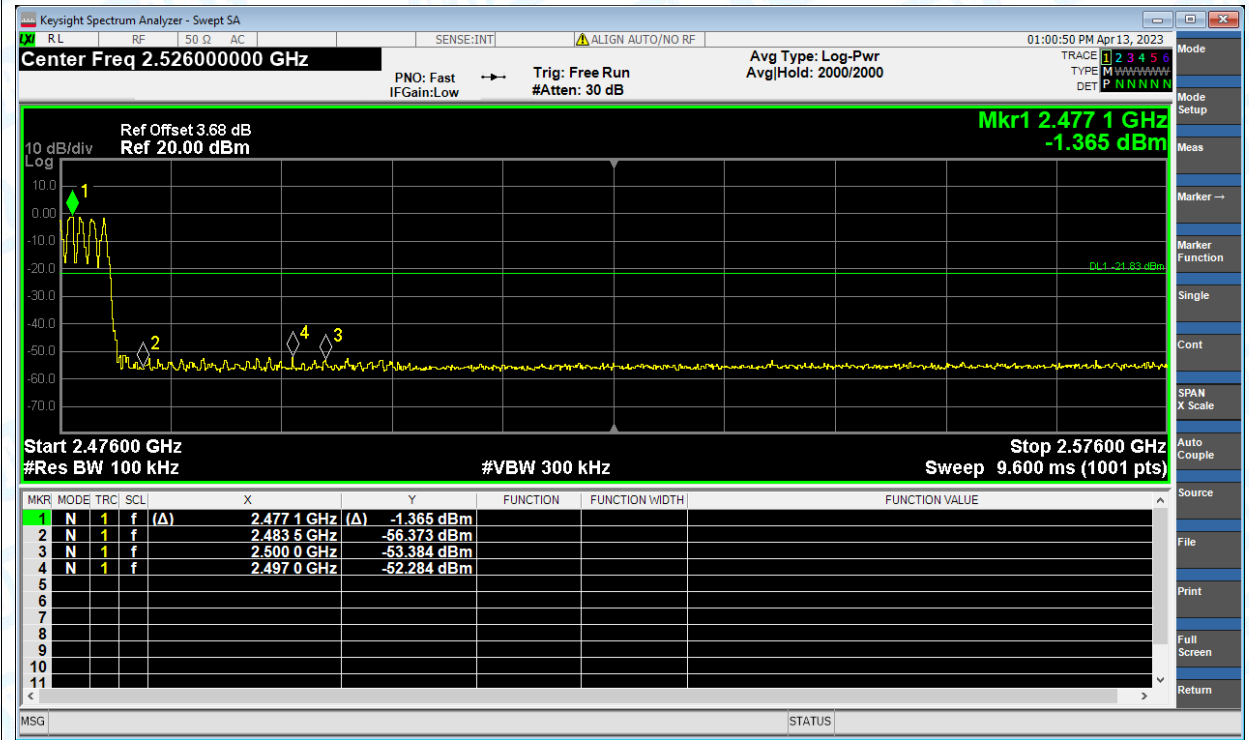
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission



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



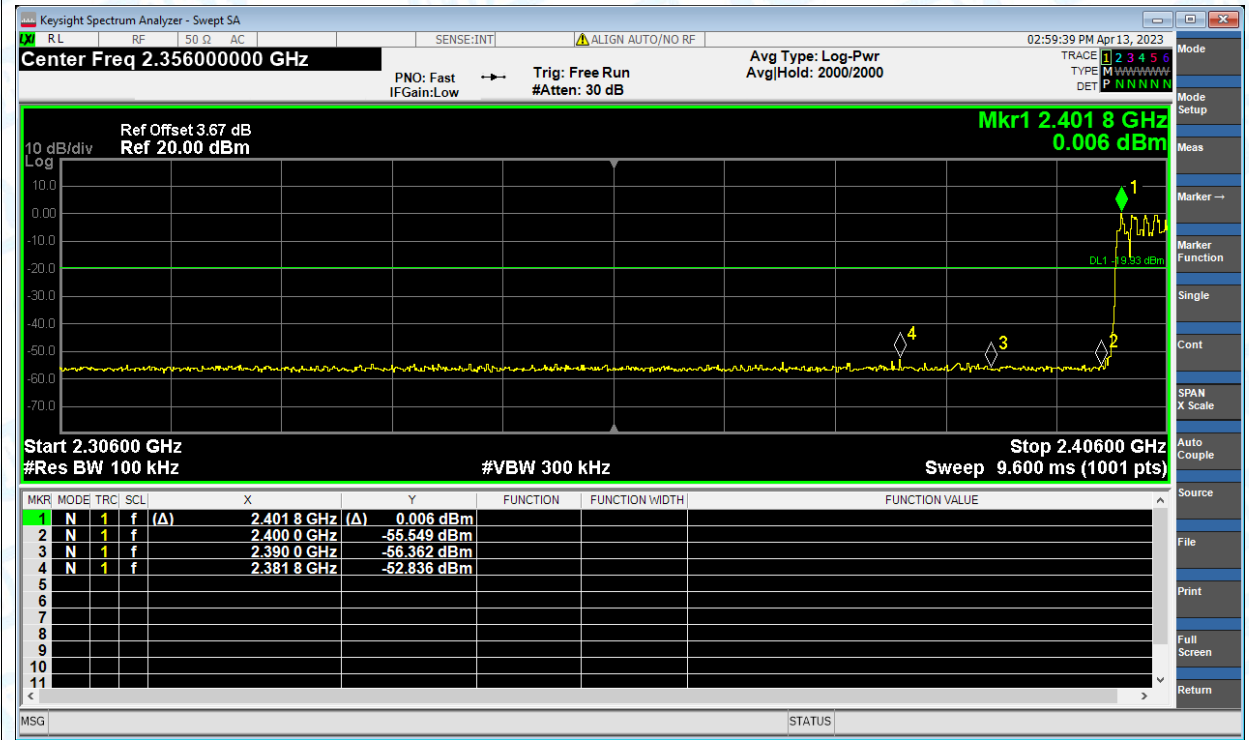
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission



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



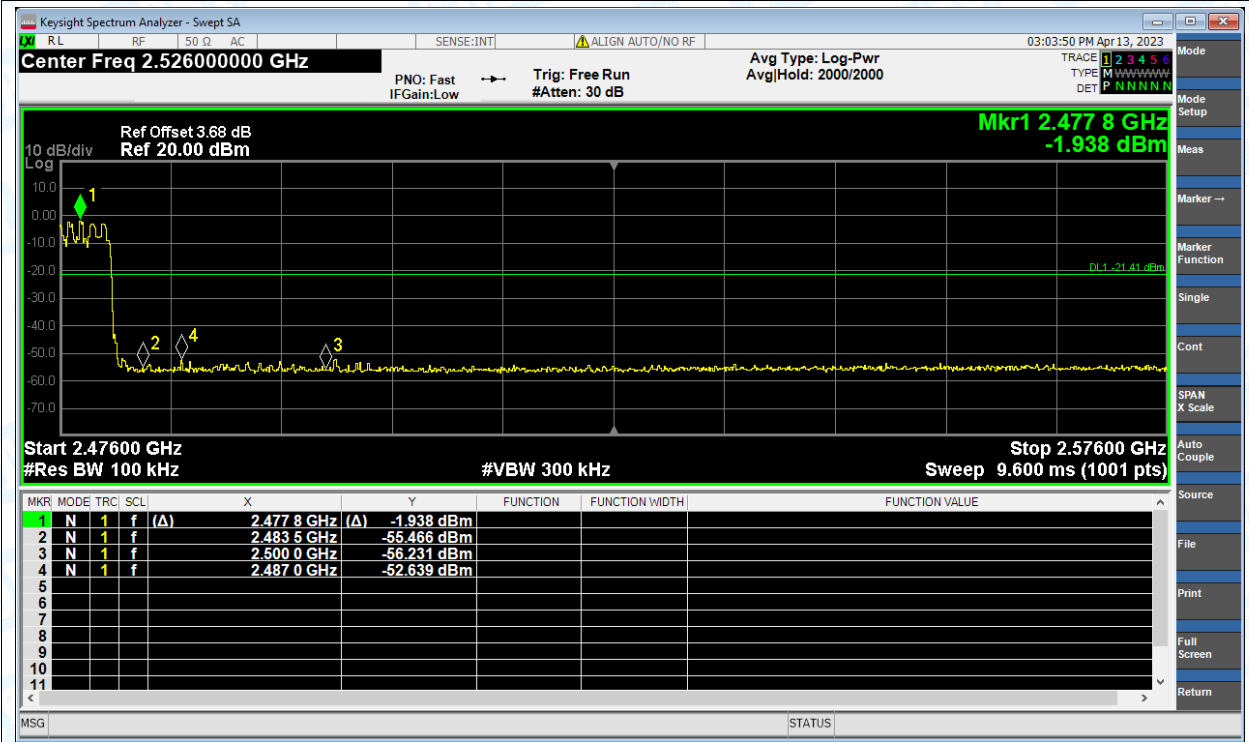
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission



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



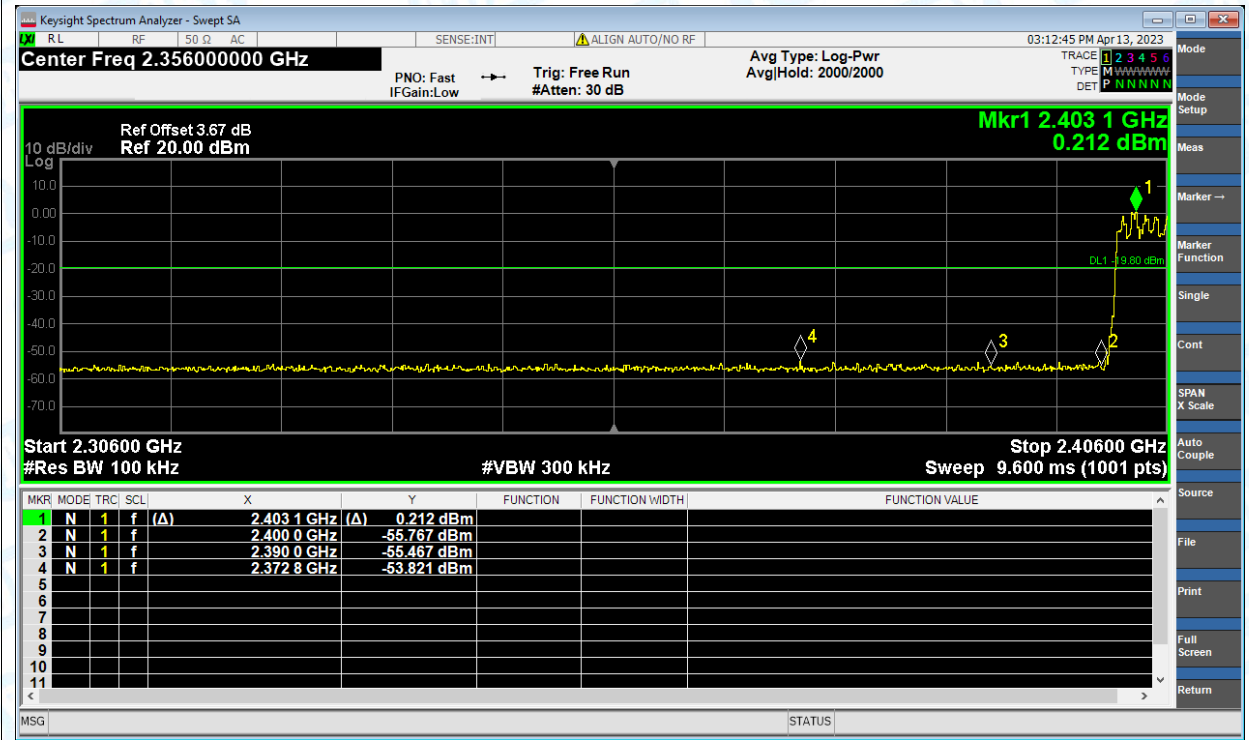
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission



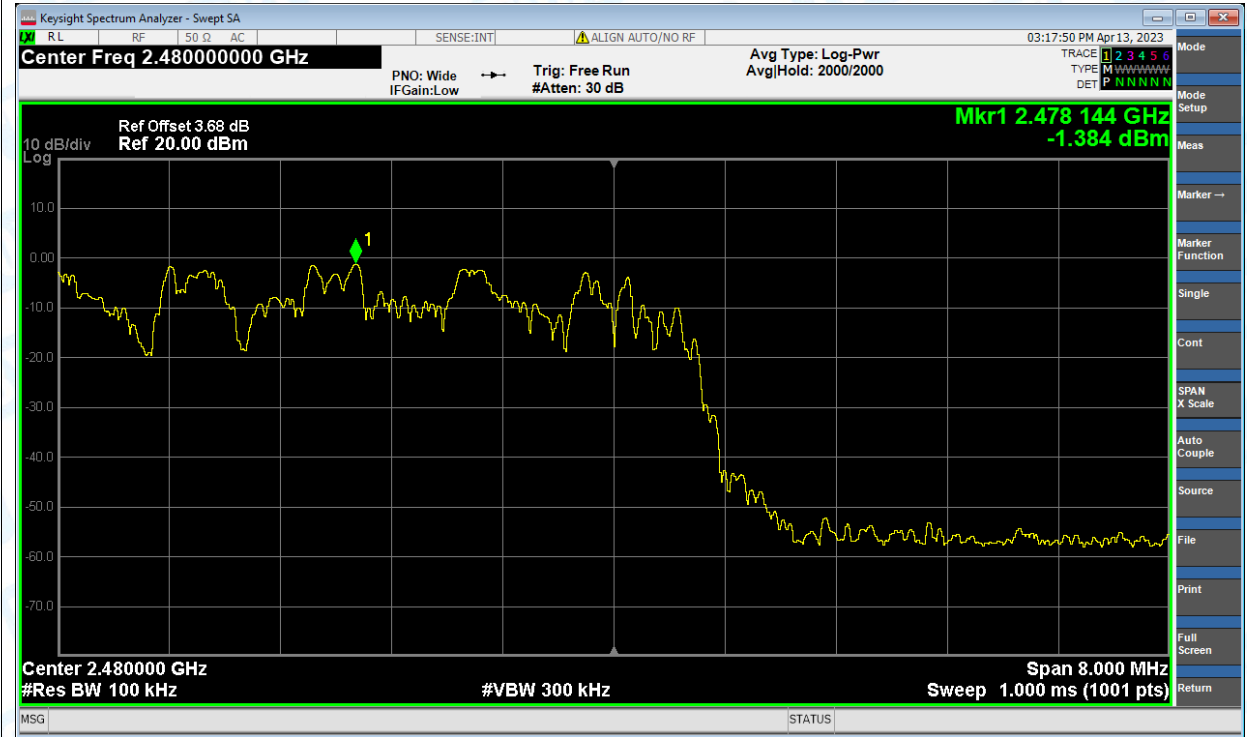
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Ref



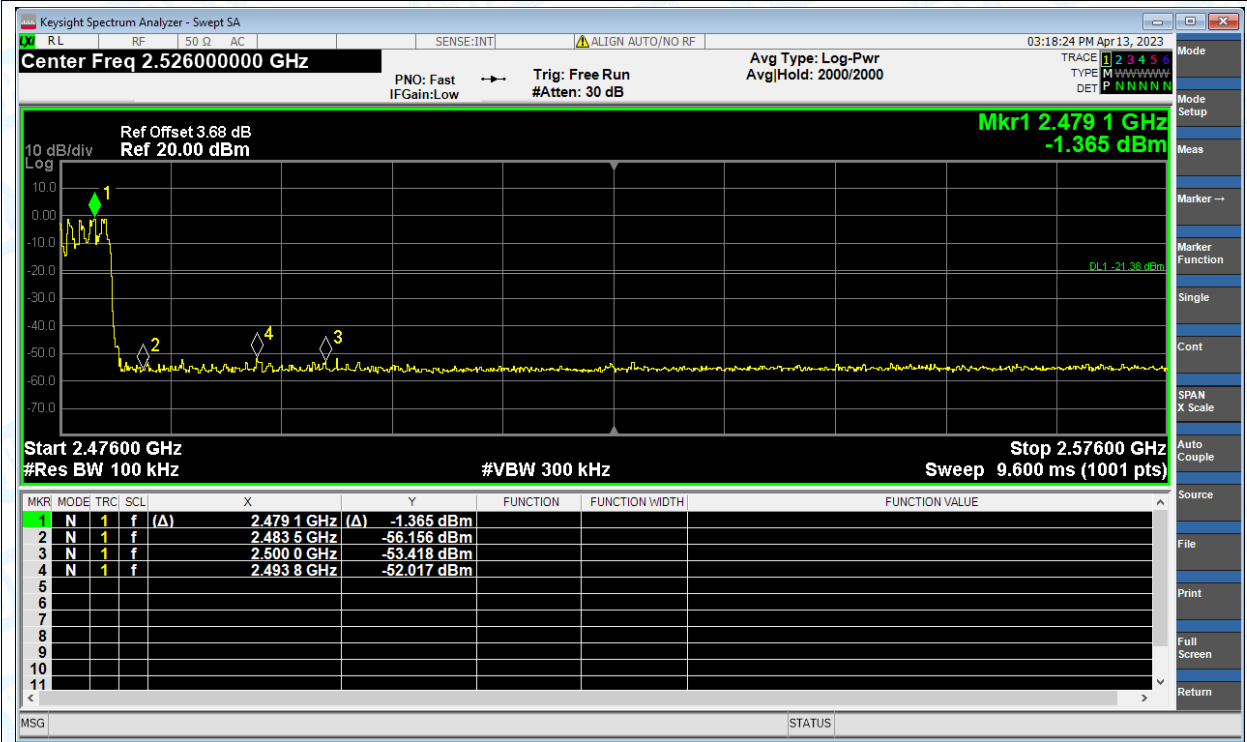
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Emission



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



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



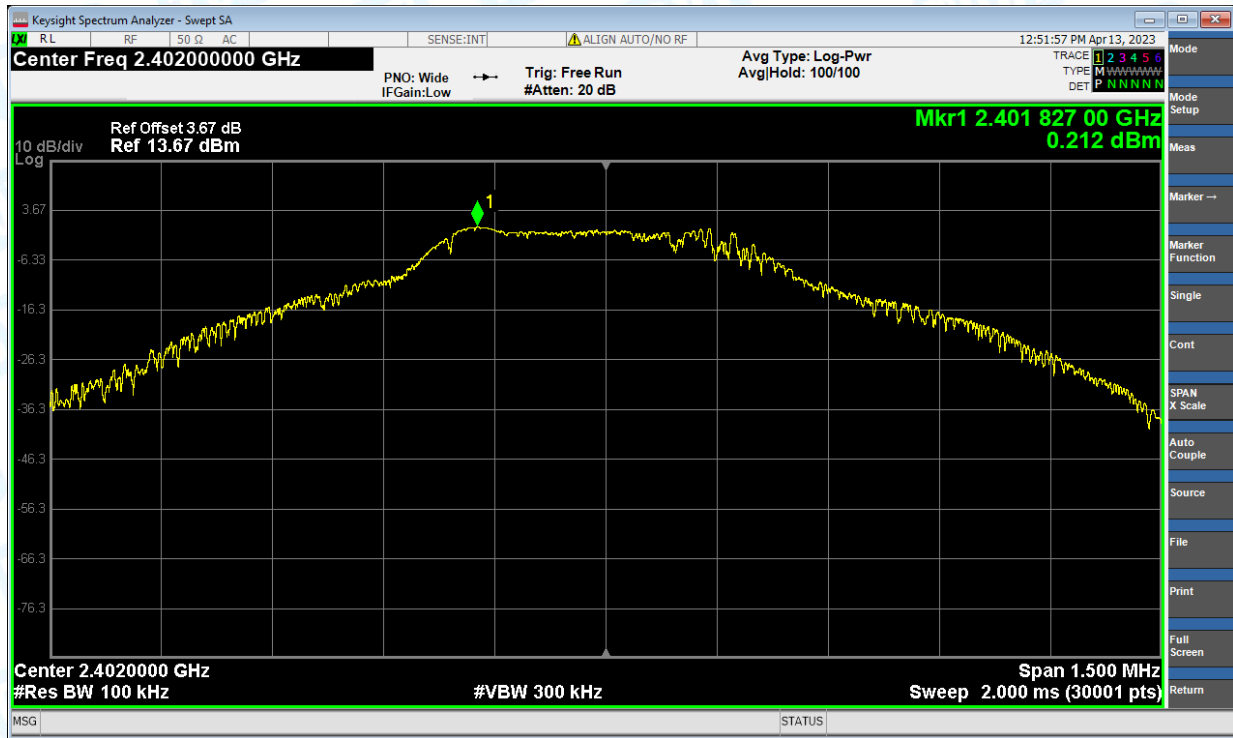
## 7. Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-45.56	-20	Pass
NVNT	1-DH1	2441	Ant1	-46.31	-20	Pass
NVNT	1-DH1	2480	Ant1	-48.36	-20	Pass
NVNT	2-DH1	2402	Ant1	-47.85	-20	Pass
NVNT	2-DH1	2441	Ant1	-43.9	-20	Pass
NVNT	2-DH1	2480	Ant1	-47.63	-20	Pass
NVNT	3-DH1	2402	Ant1	-43.86	-20	Pass
NVNT	3-DH1	2441	Ant1	-43.88	-20	Pass
NVNT	3-DH1	2480	Ant1	-49.61	-20	Pass

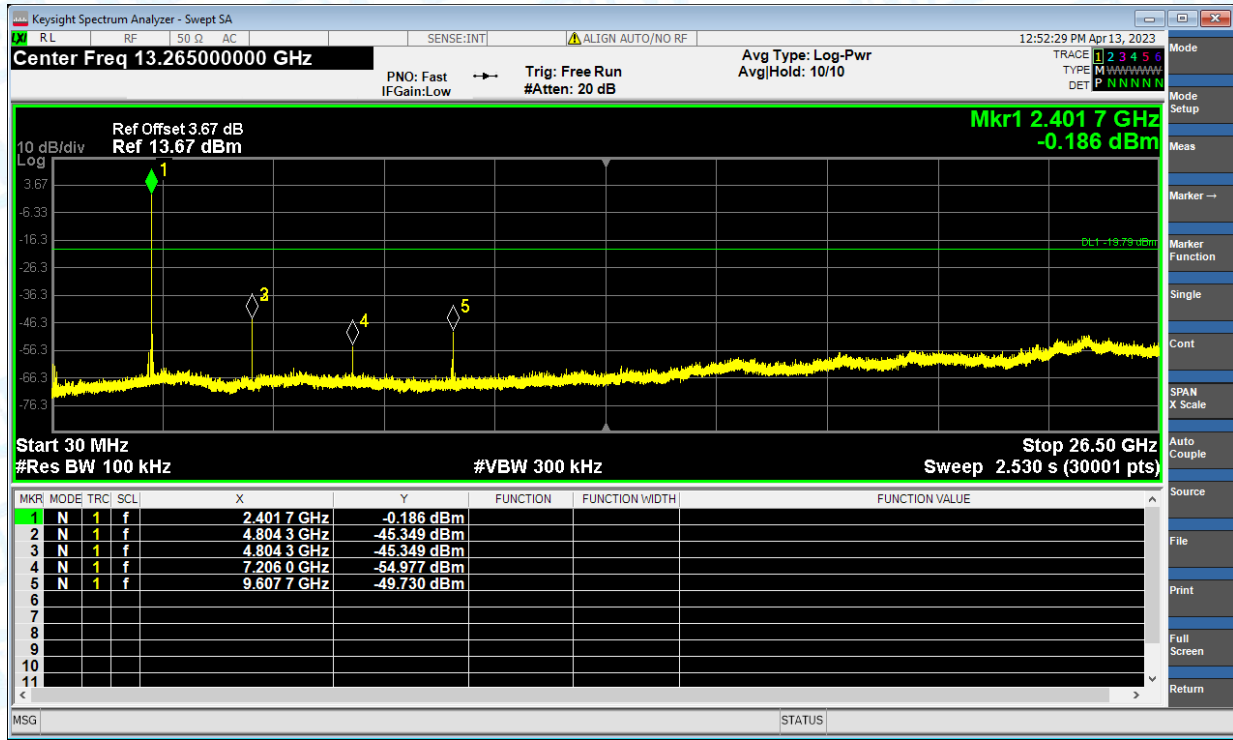


Test Graphs

Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



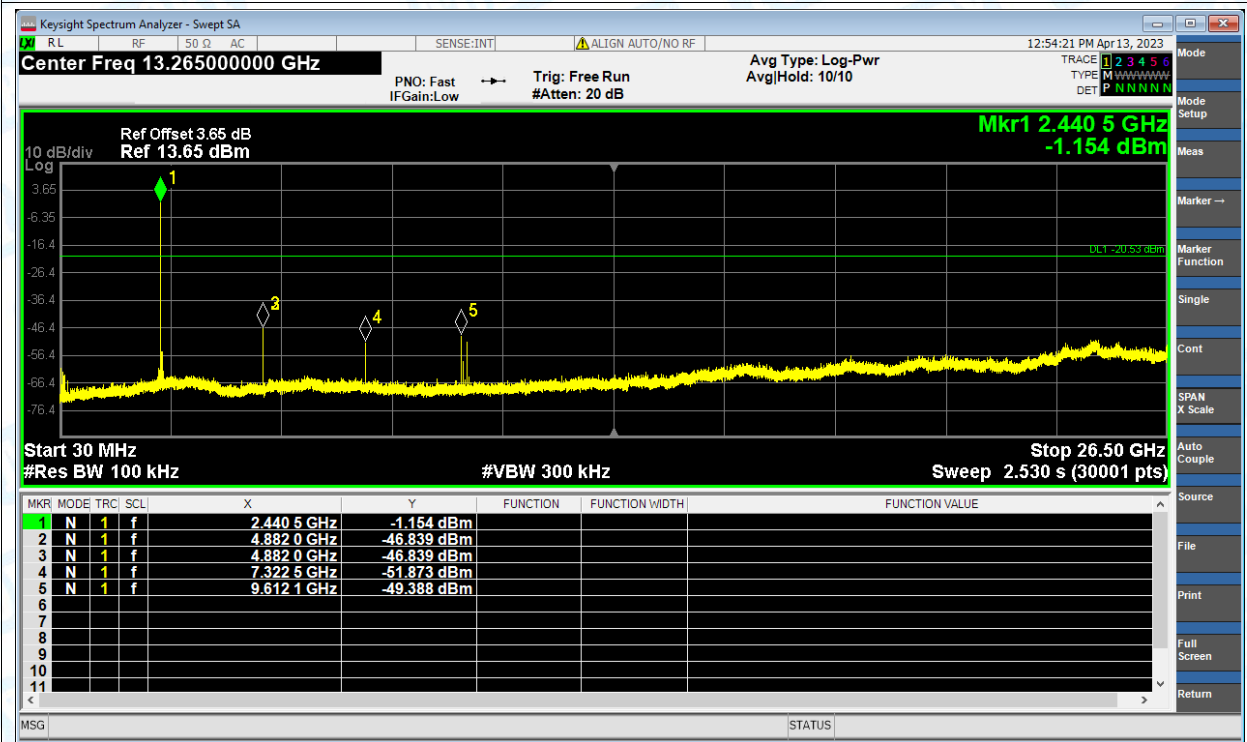
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



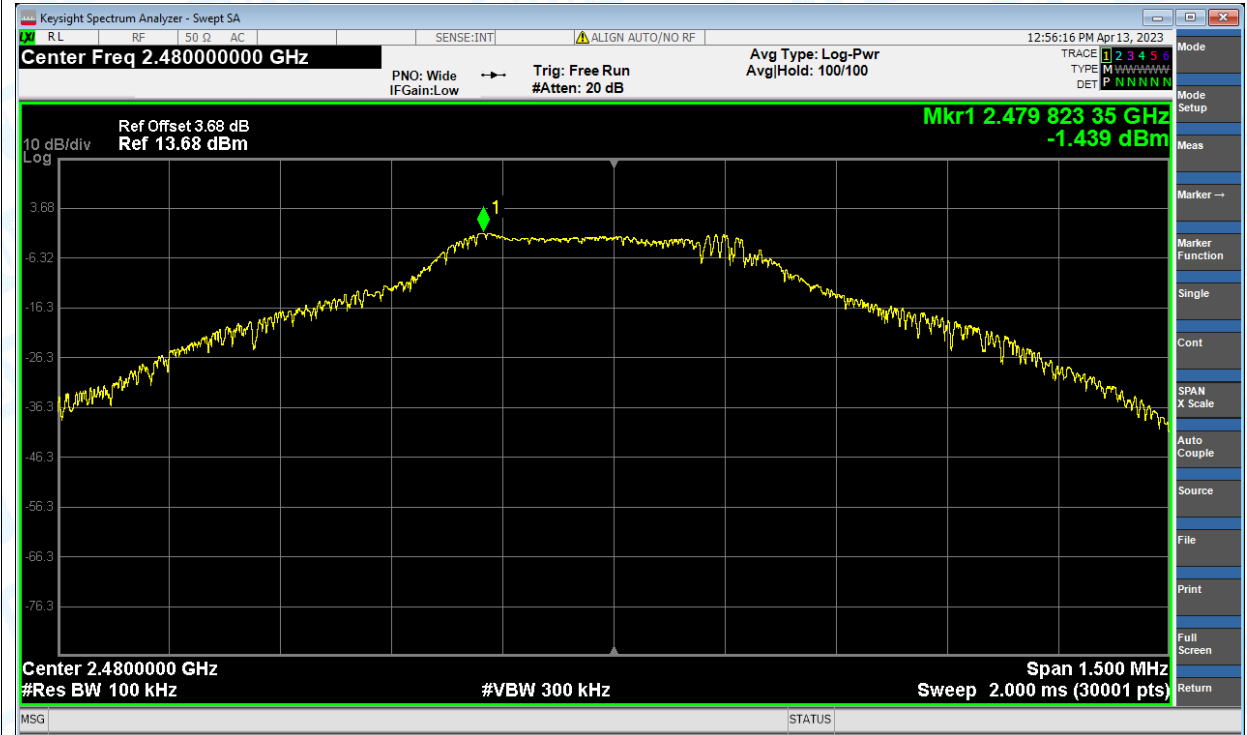
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



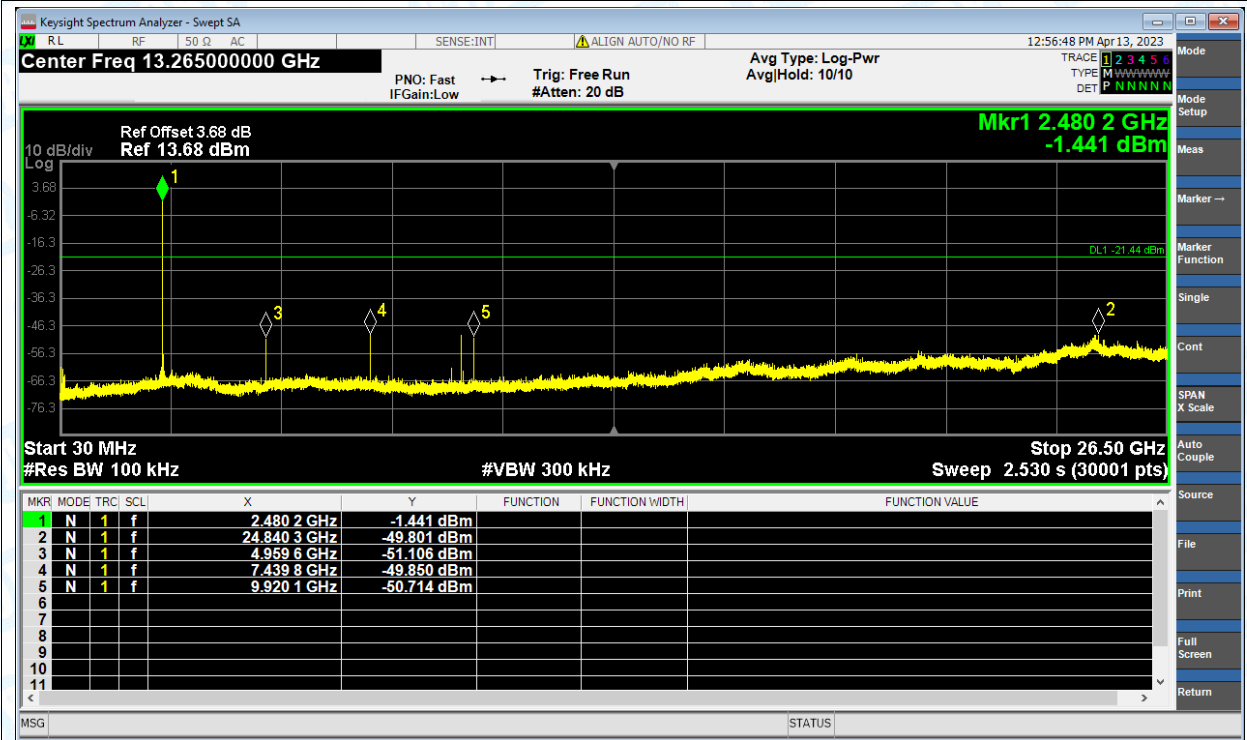
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



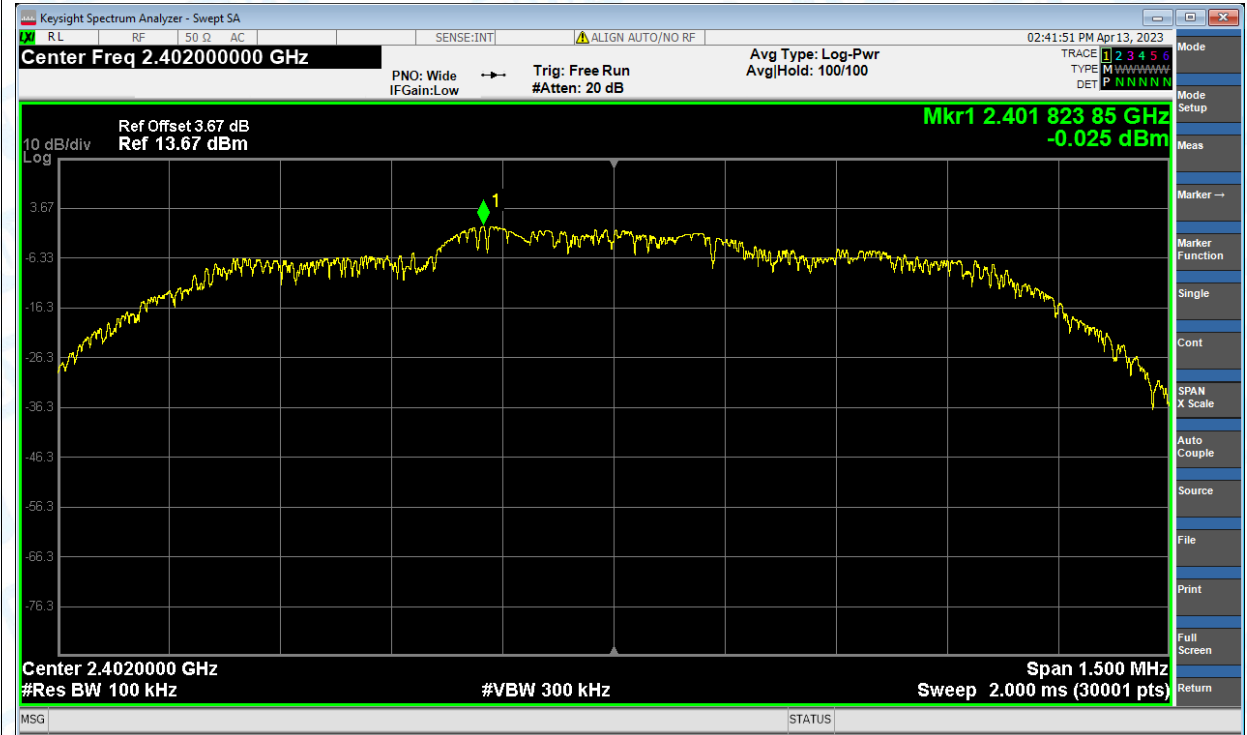
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



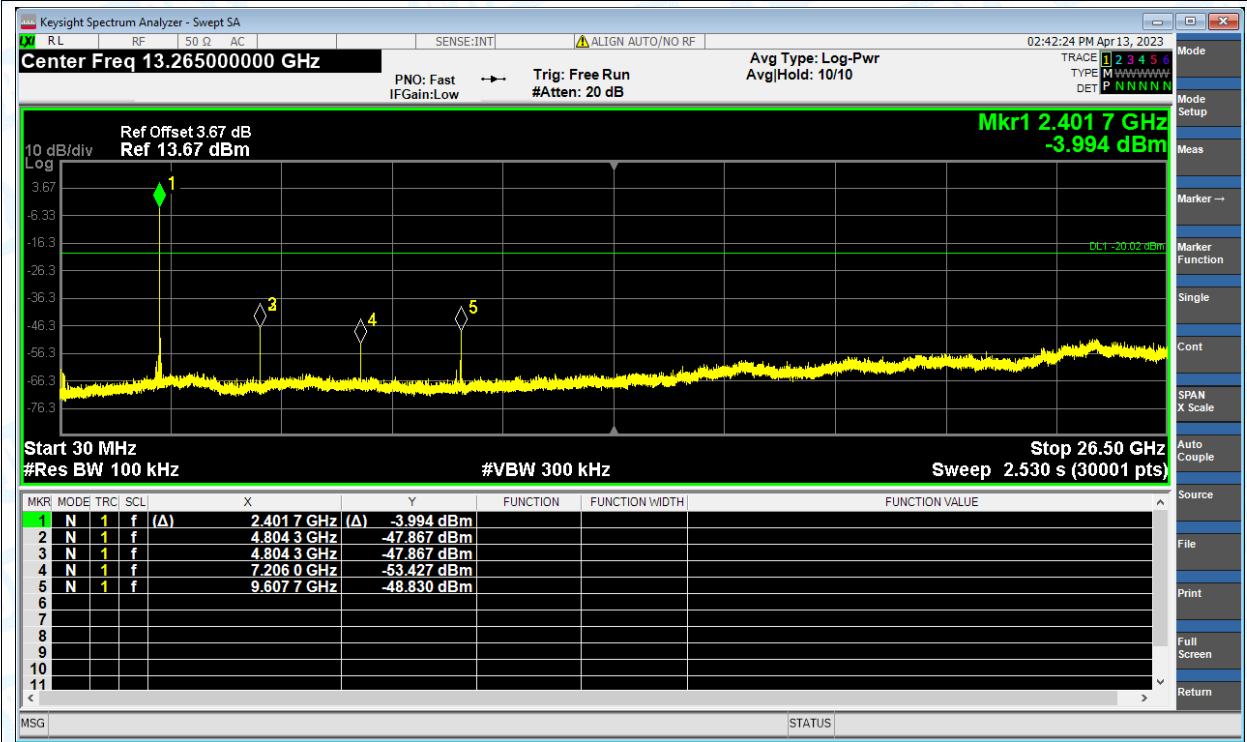
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



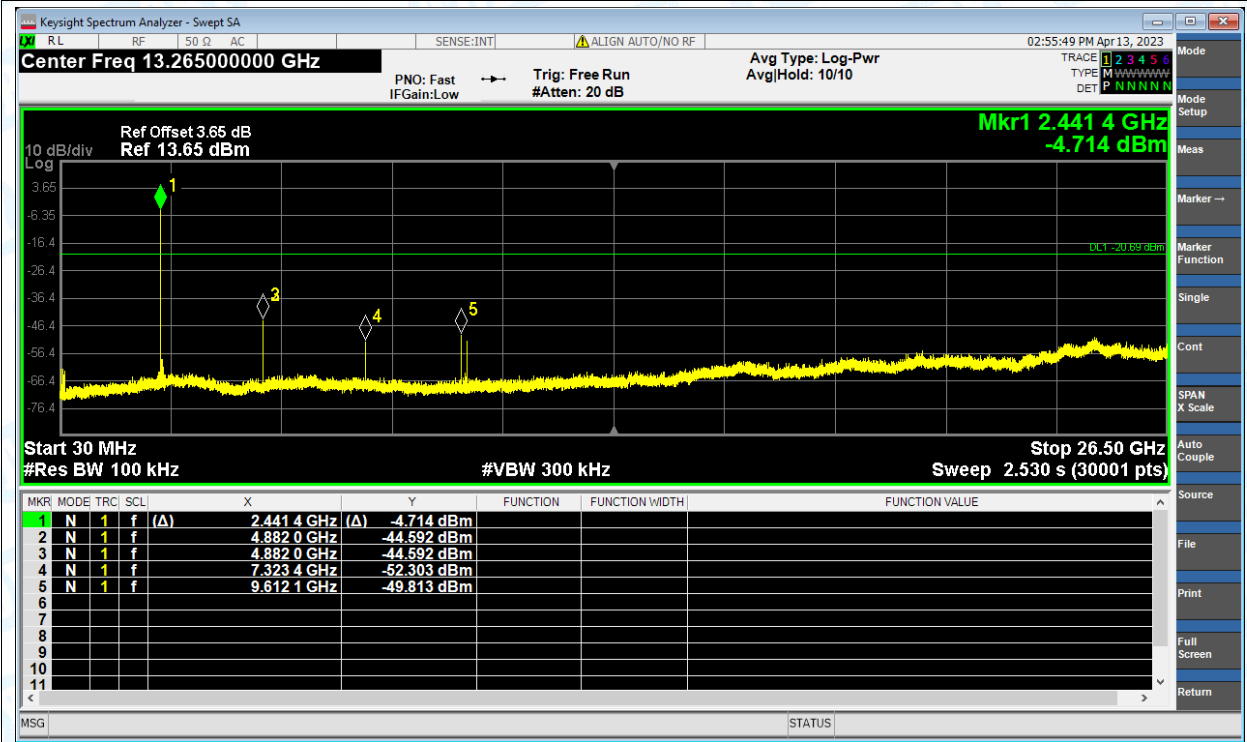
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



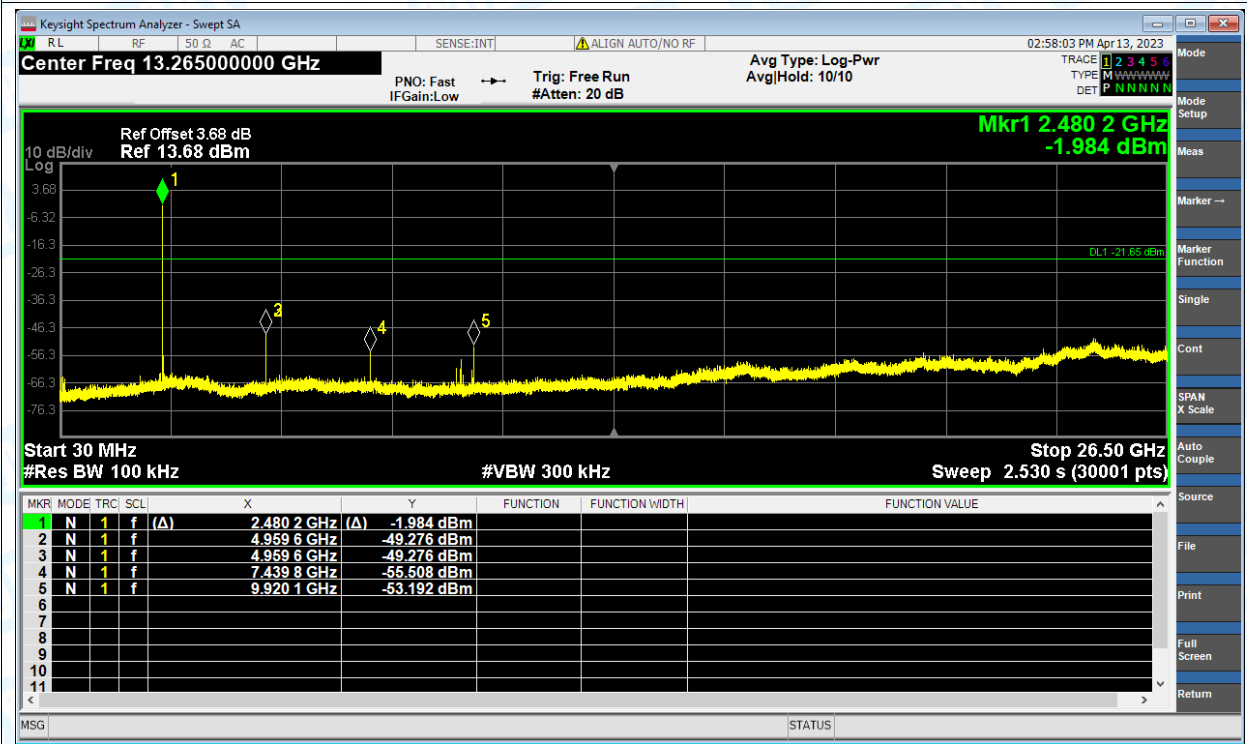
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



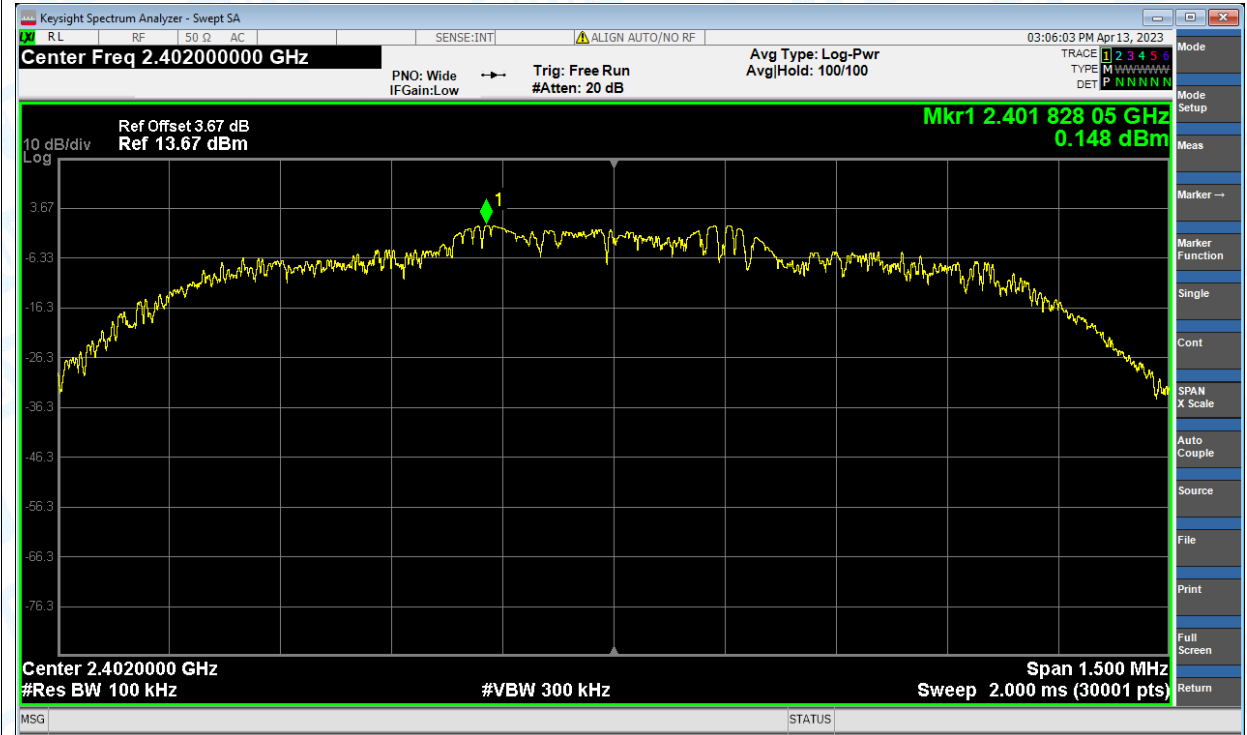
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



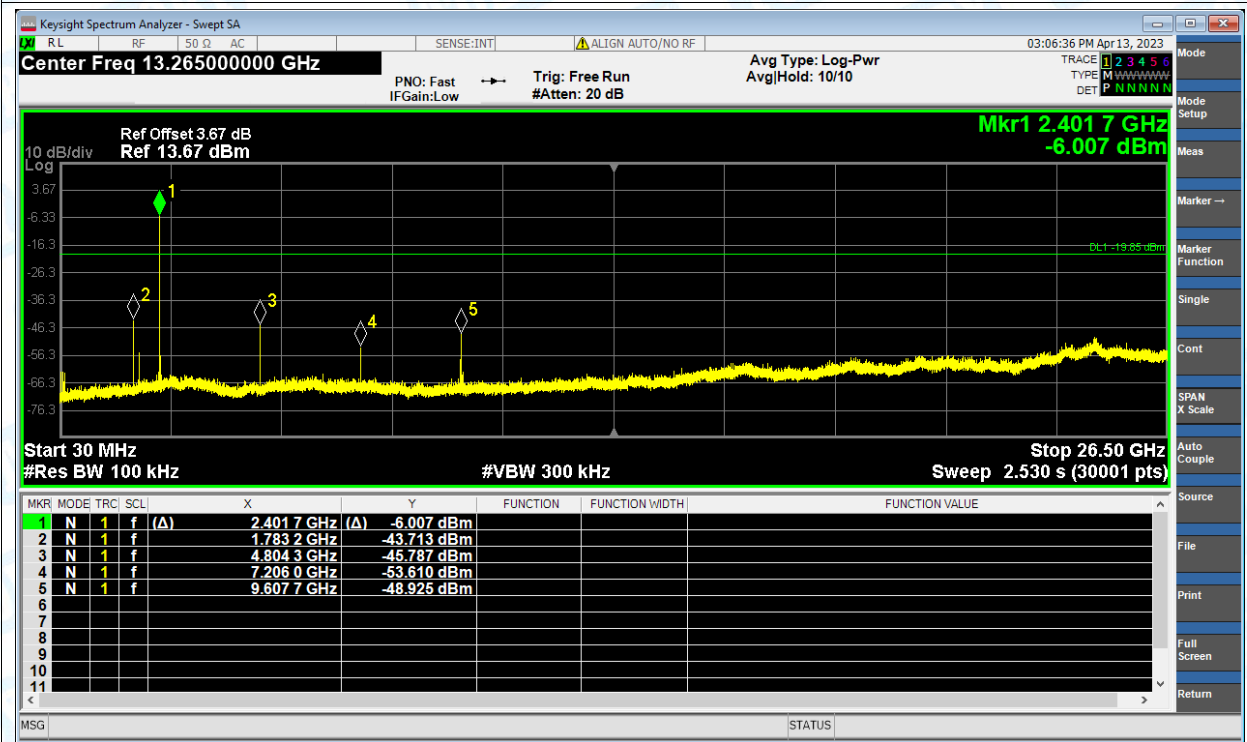
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



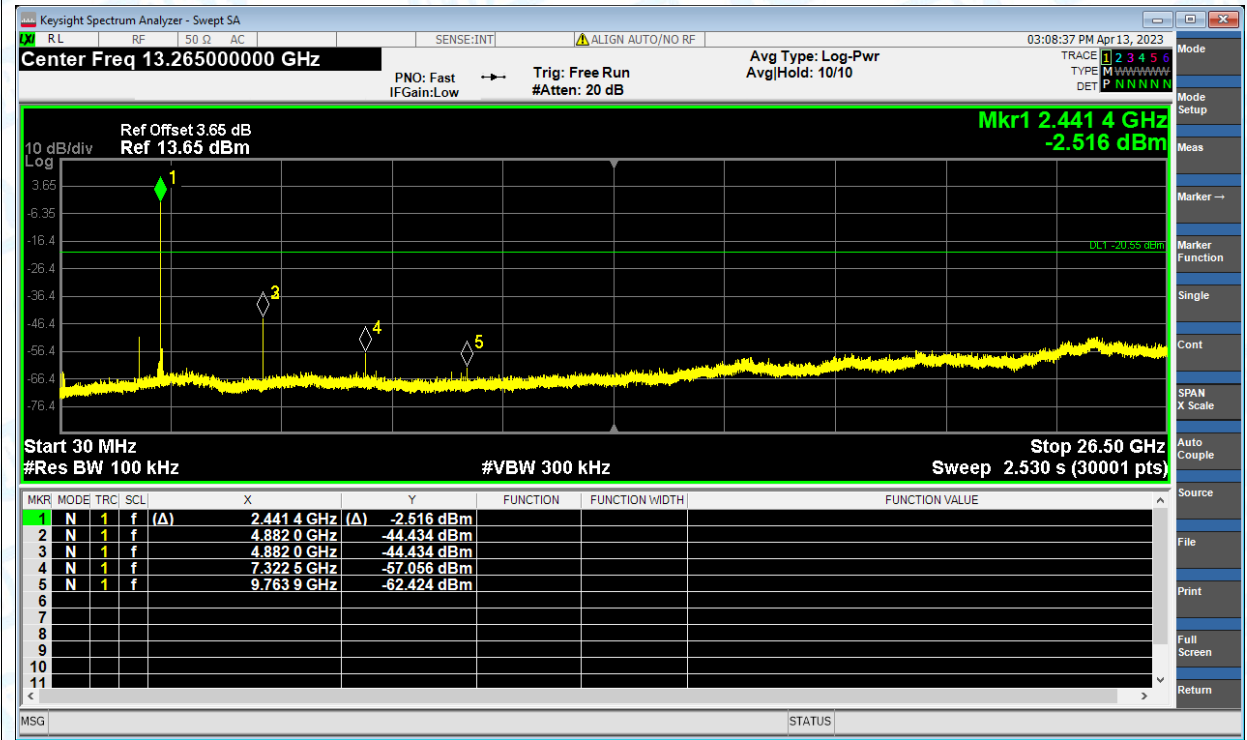
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission

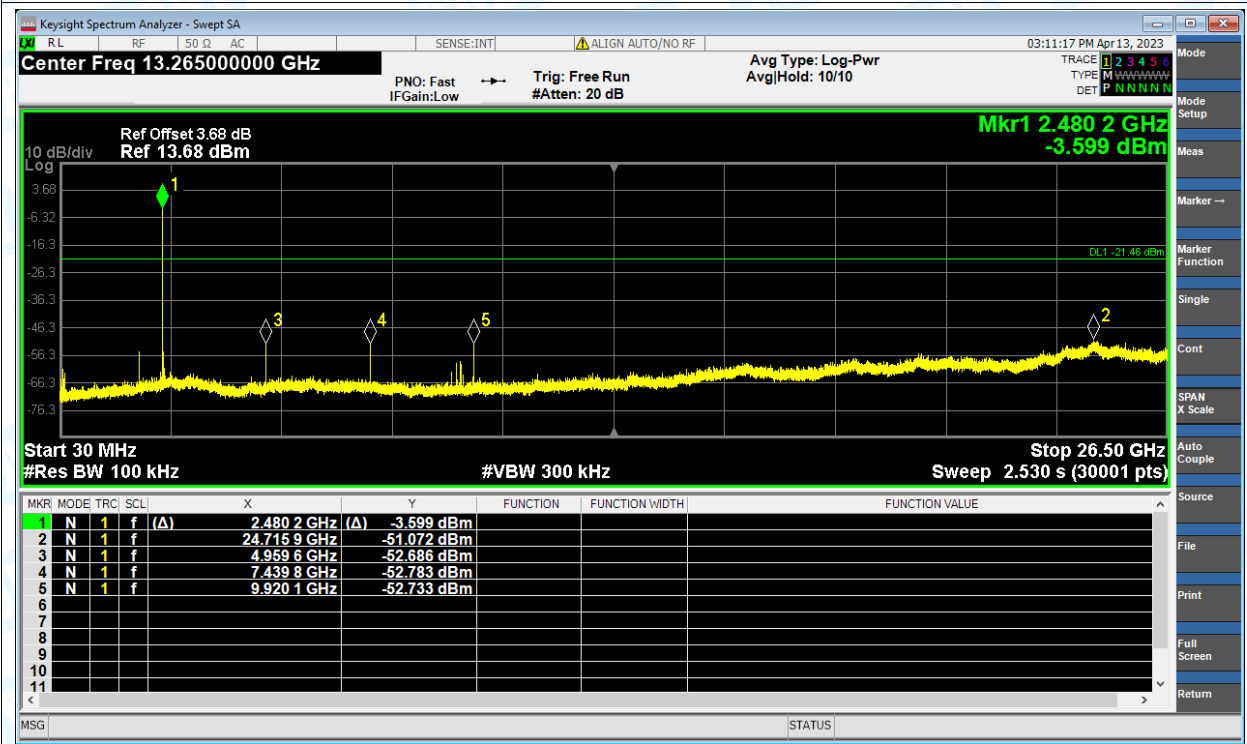




Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

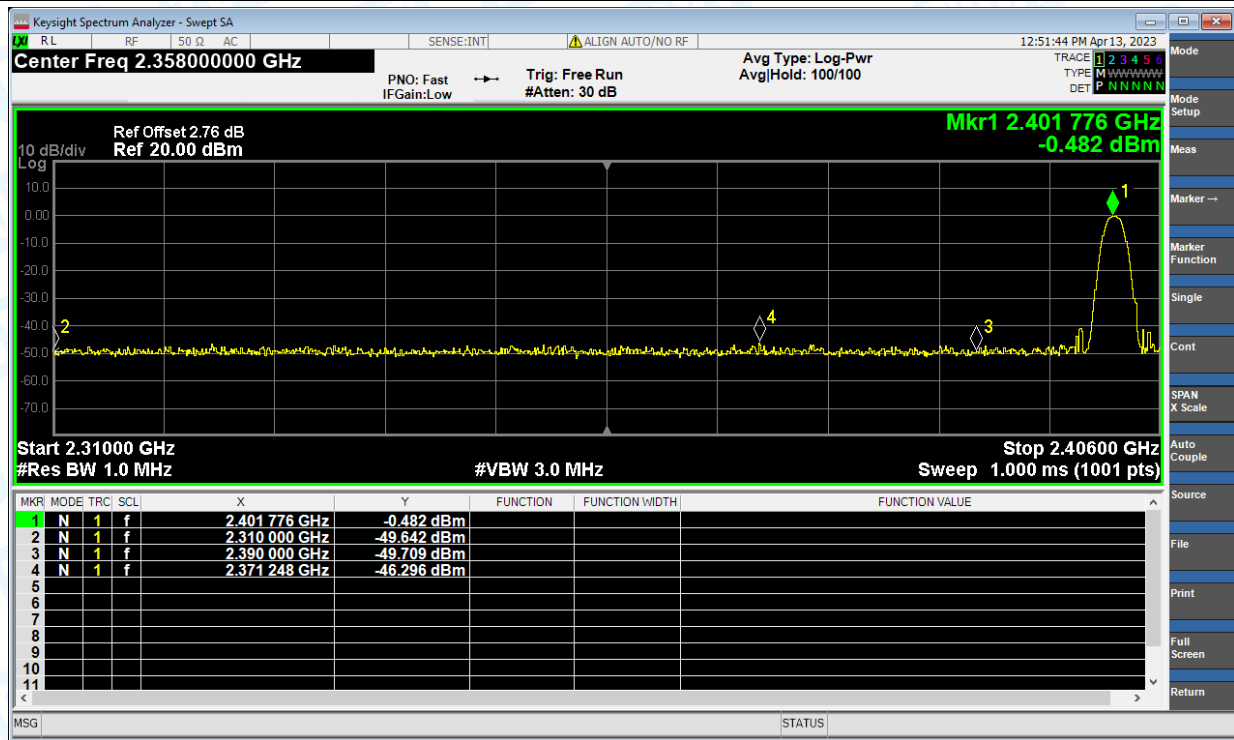


## 8. Restrict Band

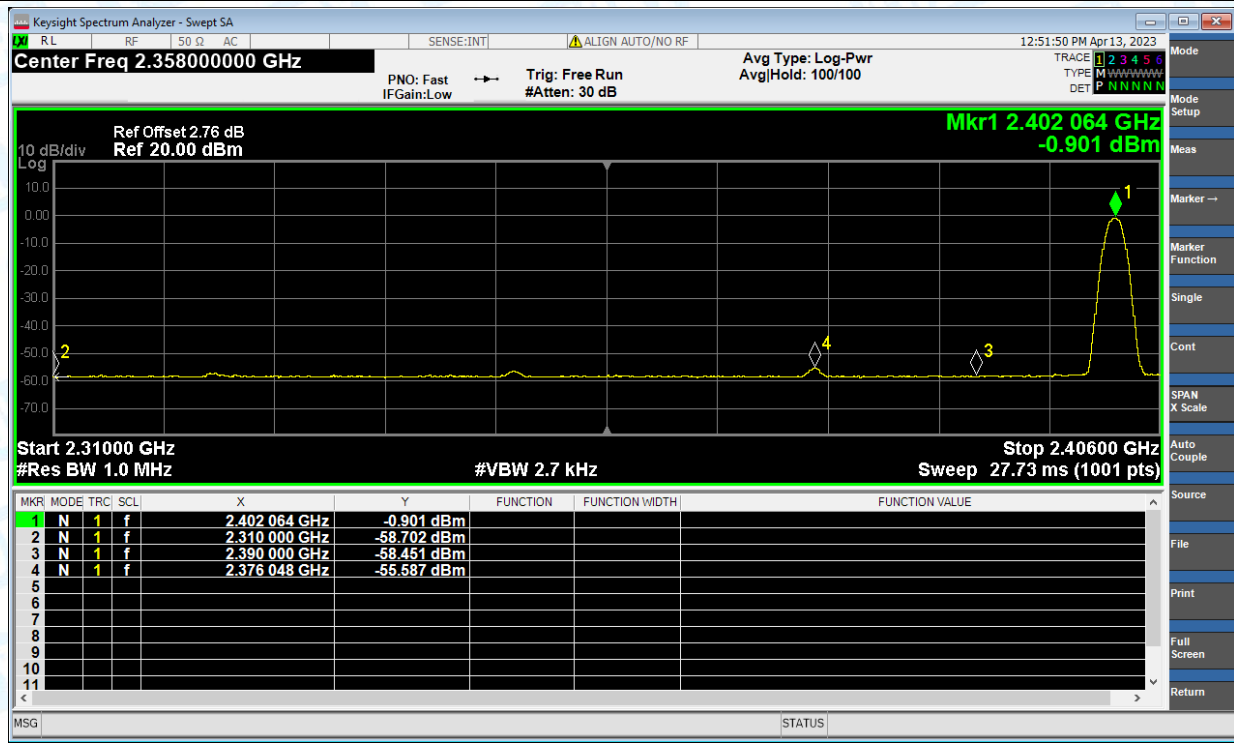
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-49.64	2	47.62	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-58.7	2	38.56	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2371.248	-46.3	2	50.96	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2376.048	-55.59	2	41.67	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-49.05	2	48.21	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-58.46	2	38.8	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-50.21	2	47.05	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-58.09	2	39.17	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.8	-45.19	2	52.07	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.848	-57.87	2	39.39	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-49.38	2	47.88	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-58.26	2	39	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-49.6	2	47.66	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-58.39	2	38.87	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2376.048	-46.85	2	50.41	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2376.856	-55.84	2	41.42	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-49.79	2	47.47	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-58.54	2	38.72	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-49.55	2	47.71	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-58.31	2	38.95	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.56	-44.73	2	52.53	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2499.496	-57.56	2	39.7	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-48.99	2	48.27	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-58.24	2	39.02	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-46.62	2	50.64	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-58.39	2	38.87	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2345.328	-45.95	2	51.31	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2375.952	-55.6	2	41.66	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-50.52	2	46.74	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-58.46	2	38.8	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-48.1	2	49.16	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-57.75	2	39.51	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2493.664	-45.92	2	51.34	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.536	-57.69	2	39.57	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-49.21	2	48.05	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-58.13	2	39.13	Average	54	Pass

Test Graphs

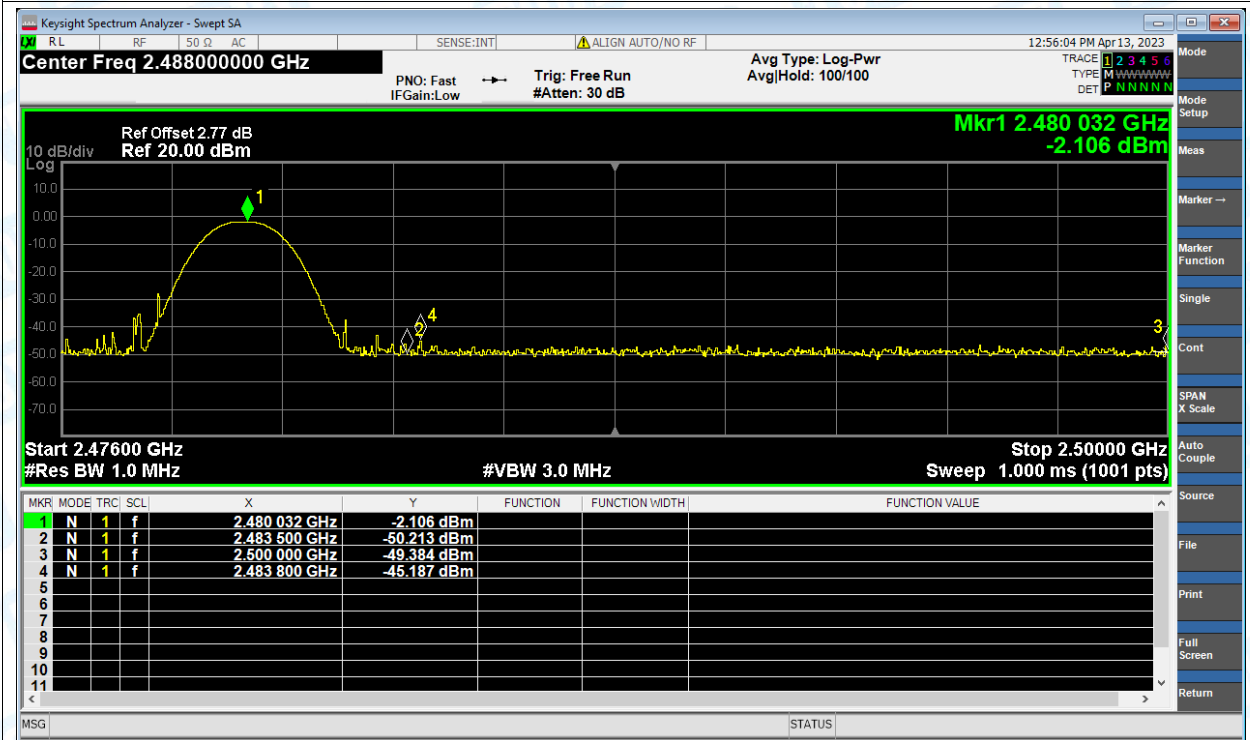
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



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



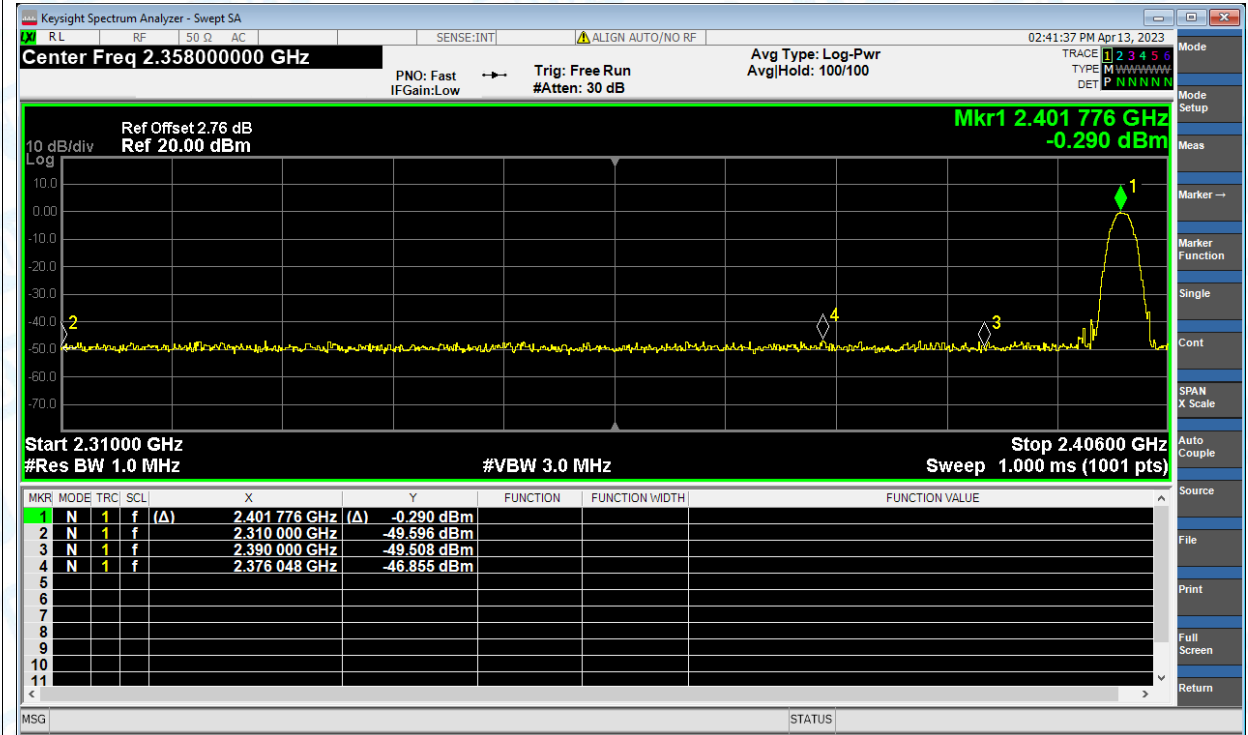
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



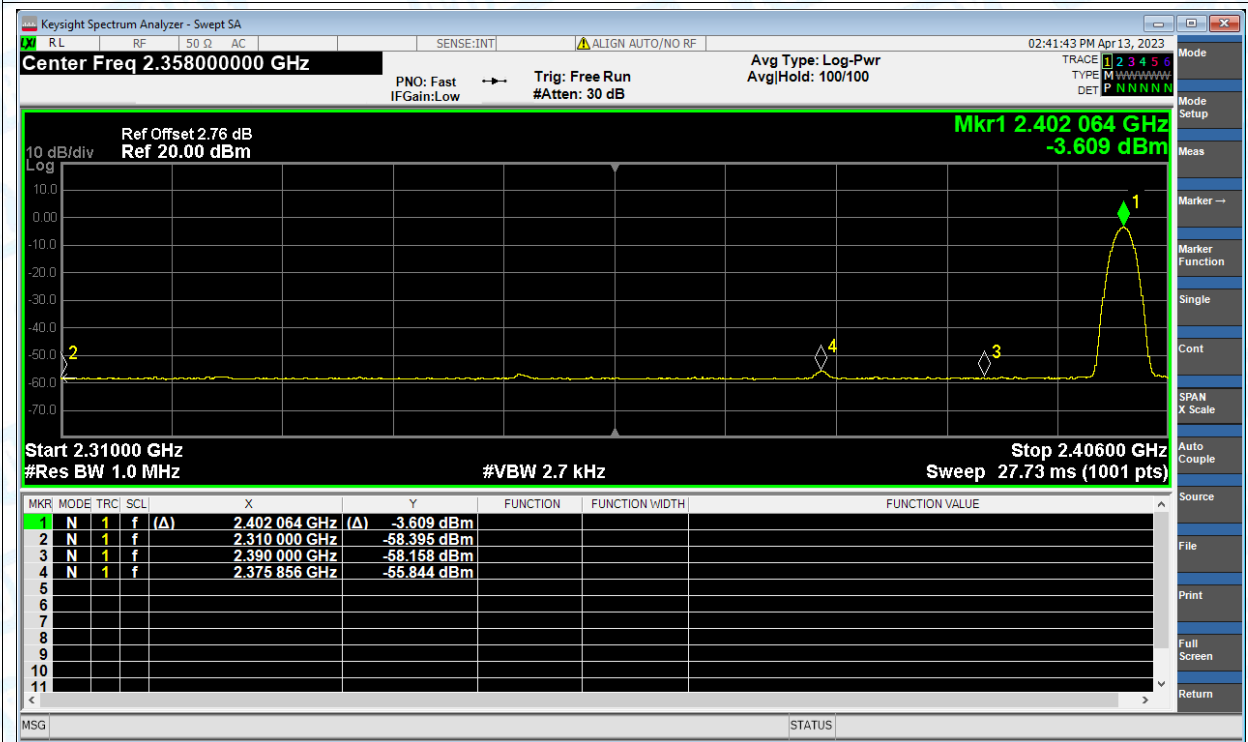
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



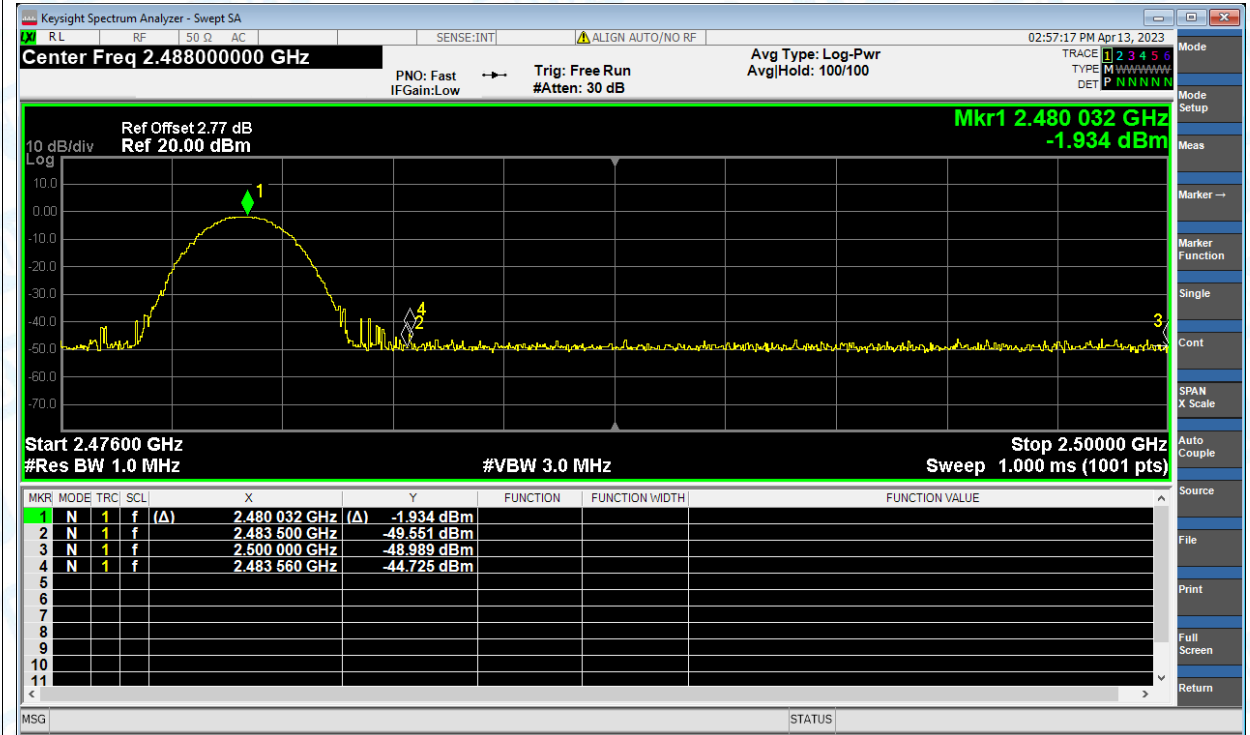
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



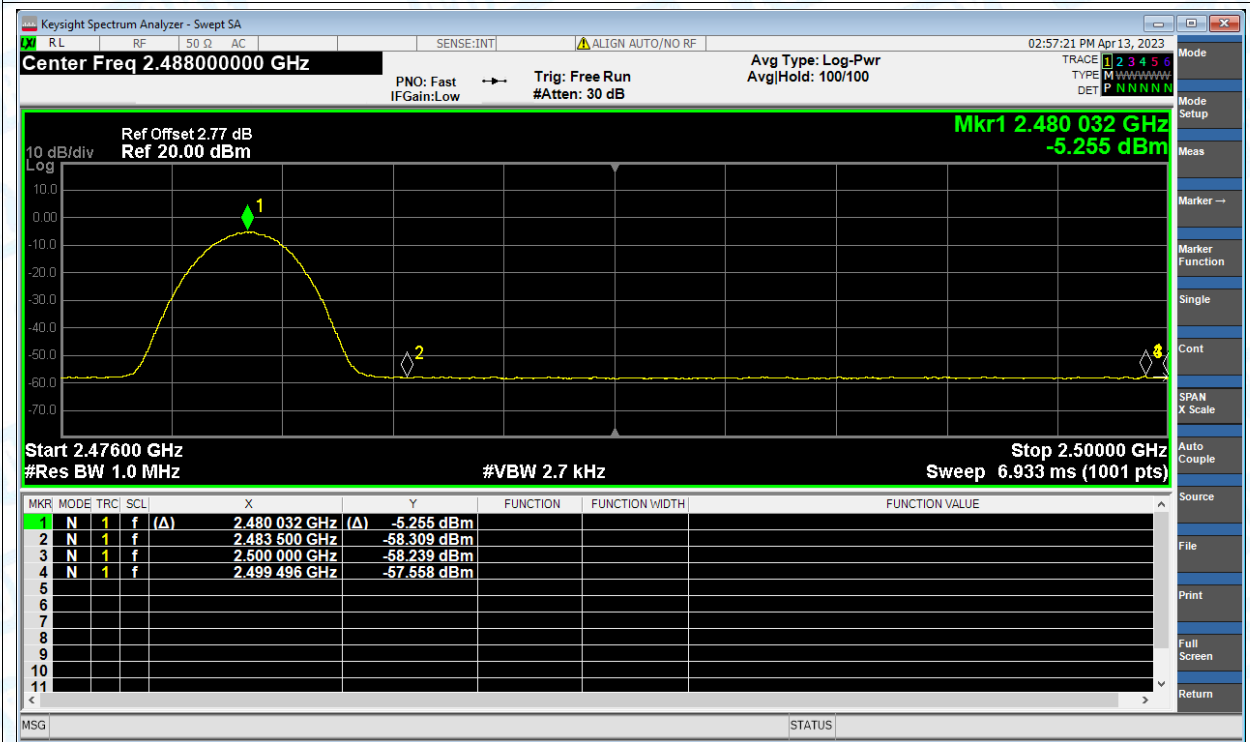
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Average



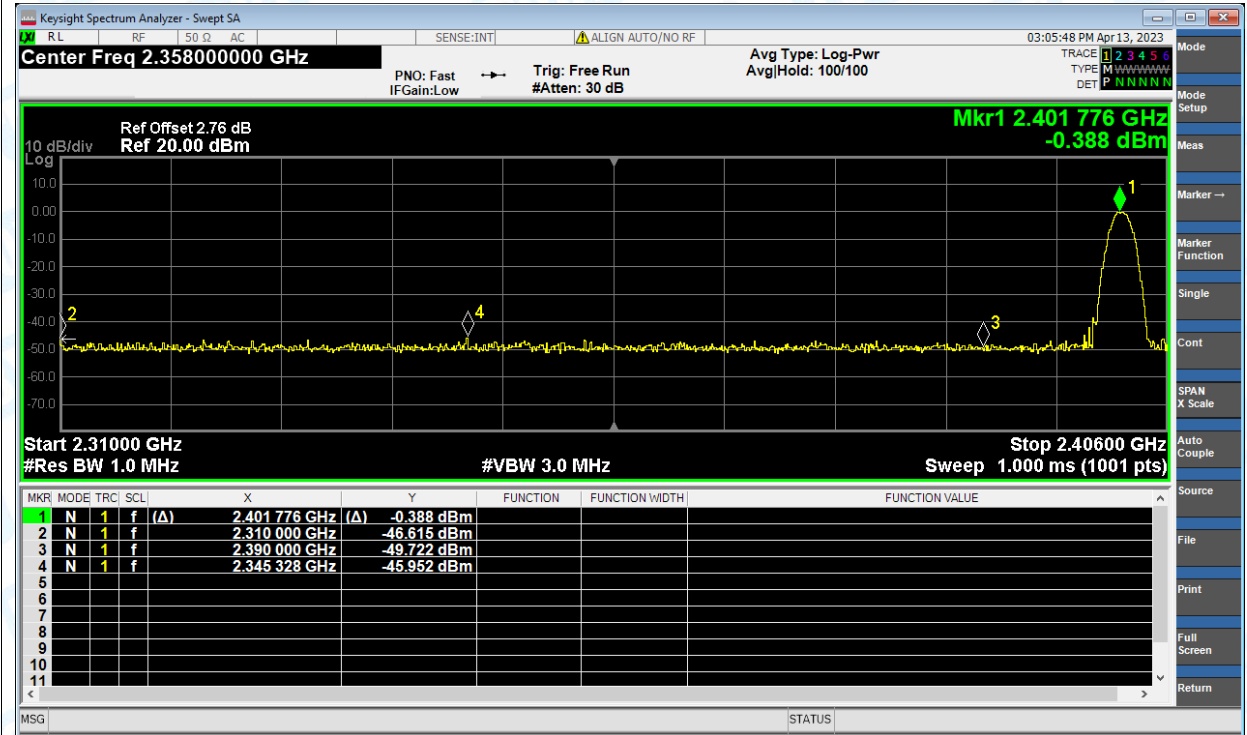
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak



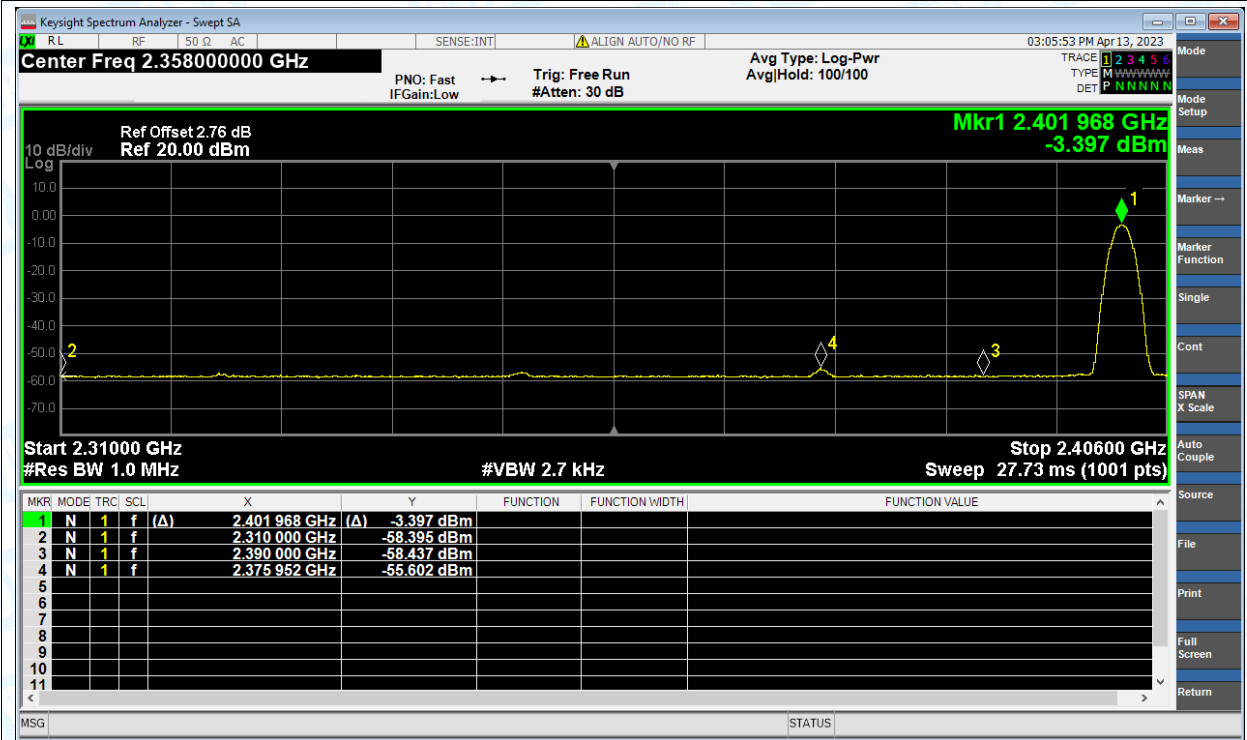
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Average



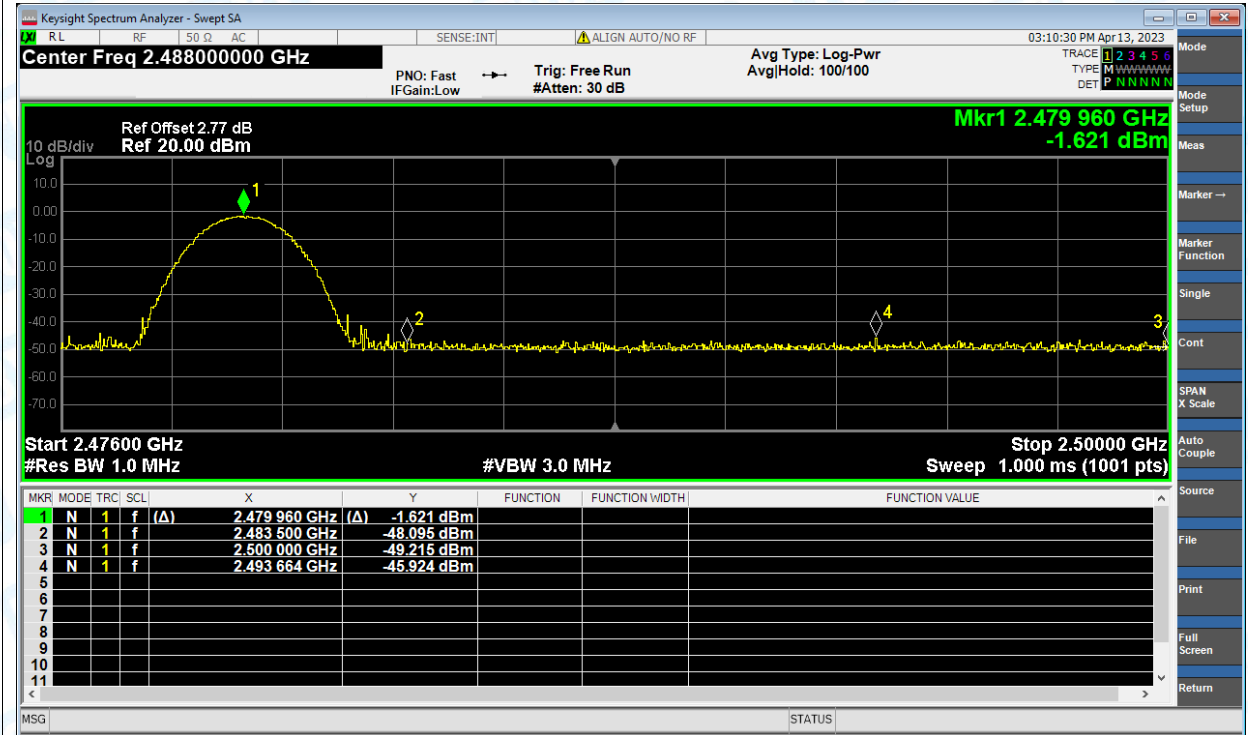
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Peak



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



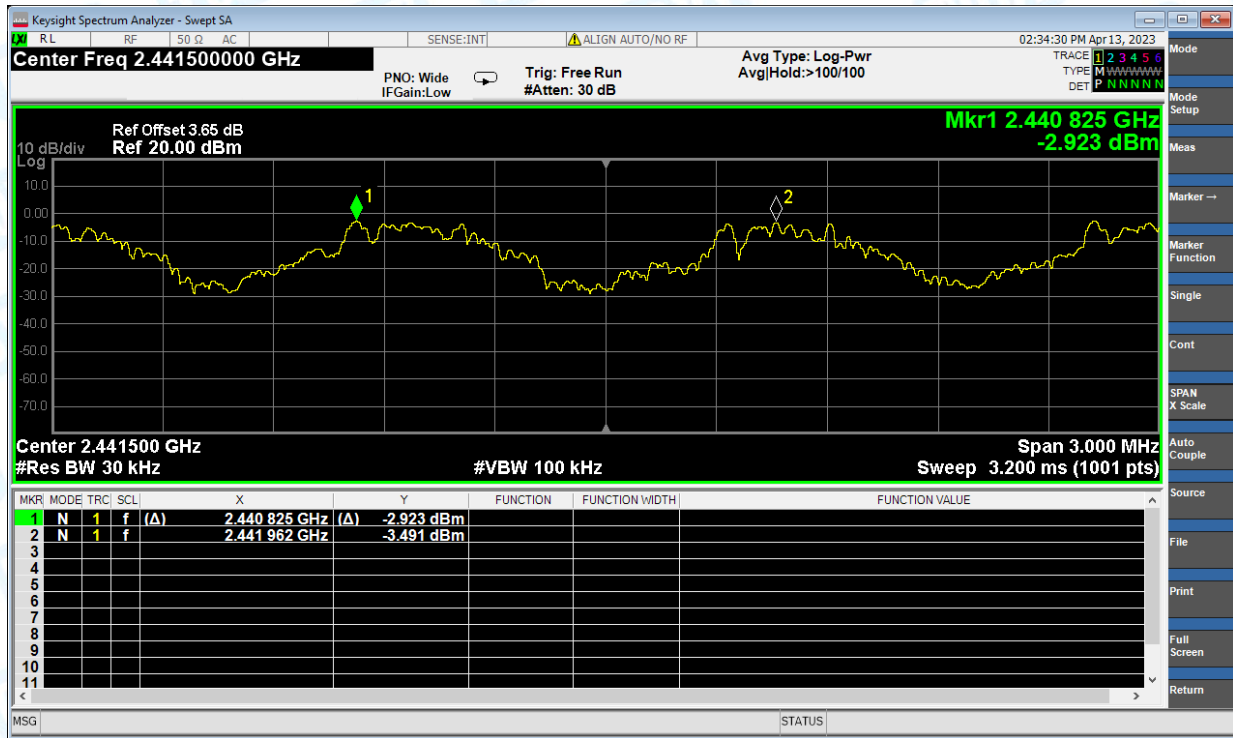


## 9. Carrier Frequencies Separation

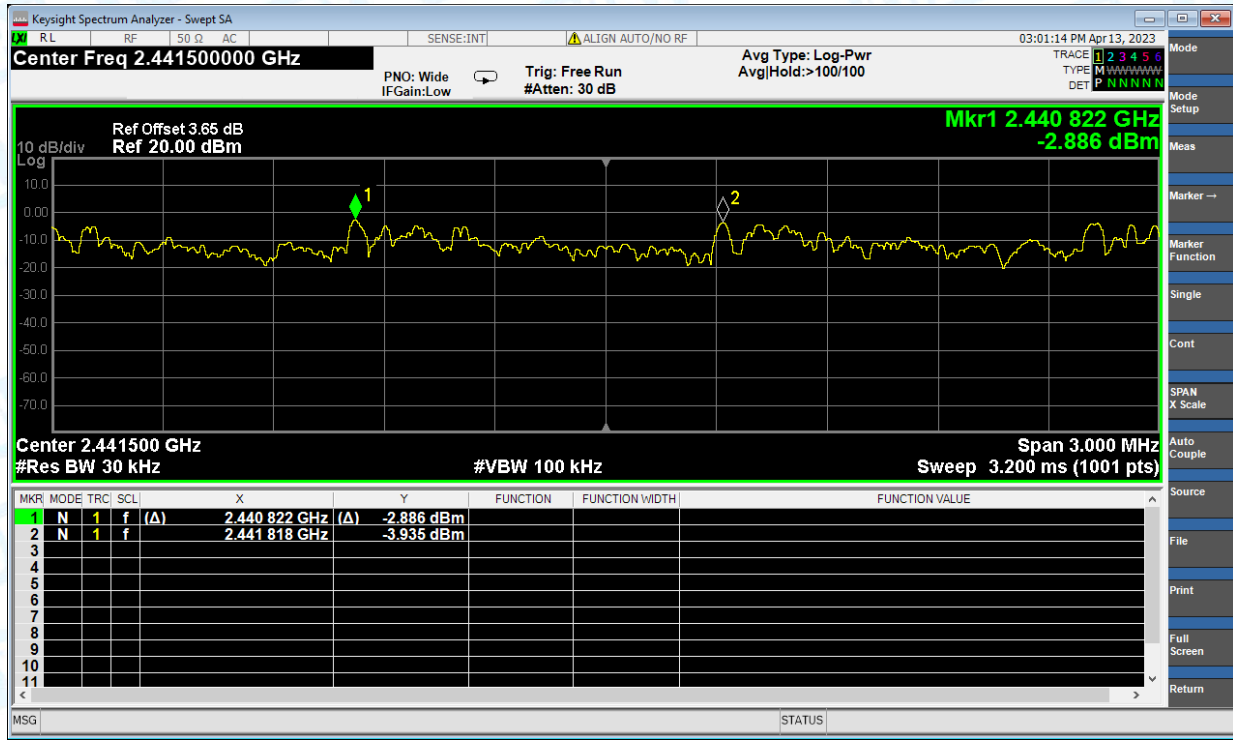
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2440.825	2441.962	1.137	0.587	Pass
NVNT	2-DH1	Ant1	2440.822	2441.818	0.996	0.833	Pass
NVNT	3-DH1	Ant1	2440.819	2441.989	1.17	0.807	Pass

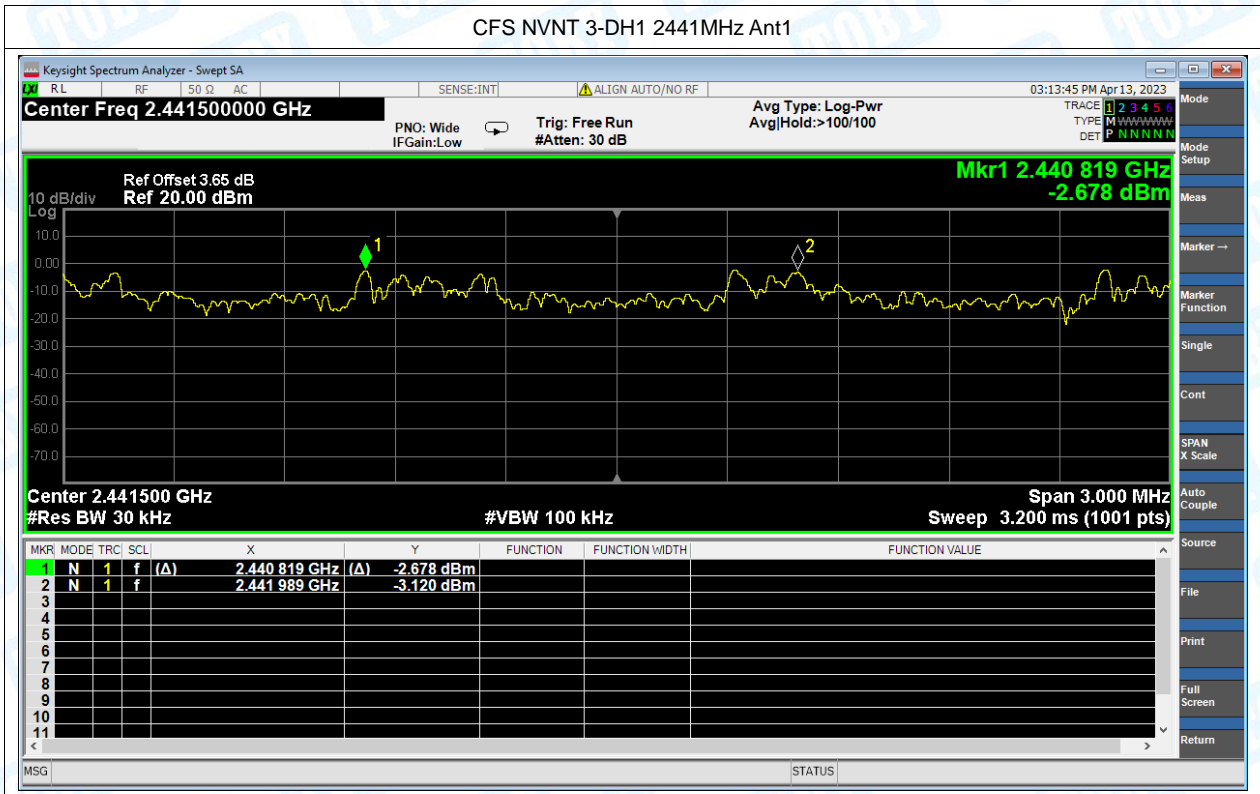
Test Graphs

CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1



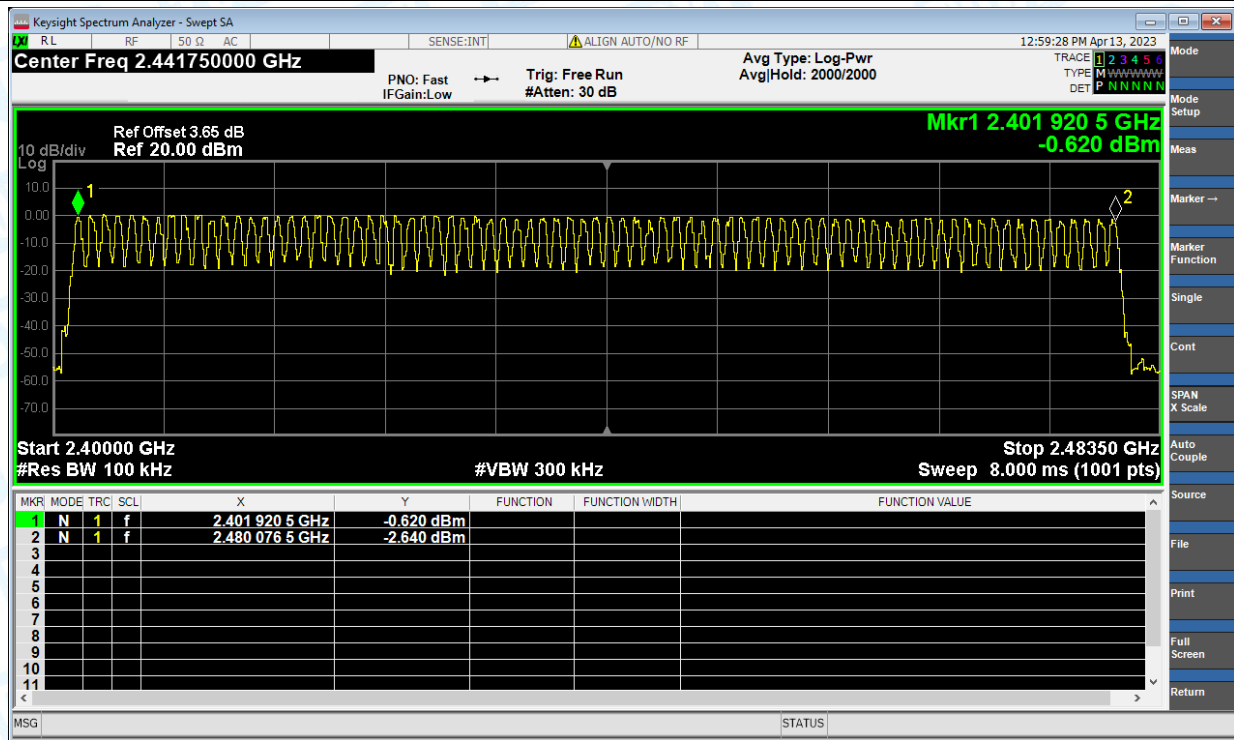


## 10. Number of Hopping Channel

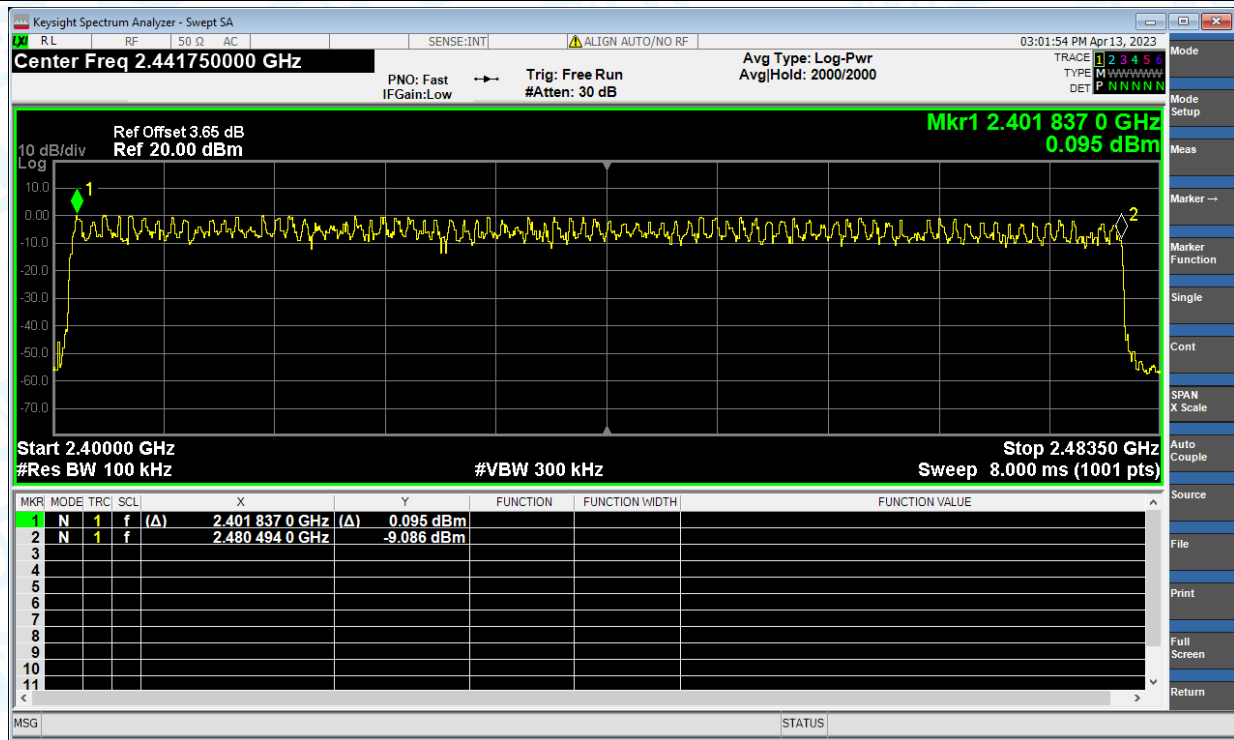
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

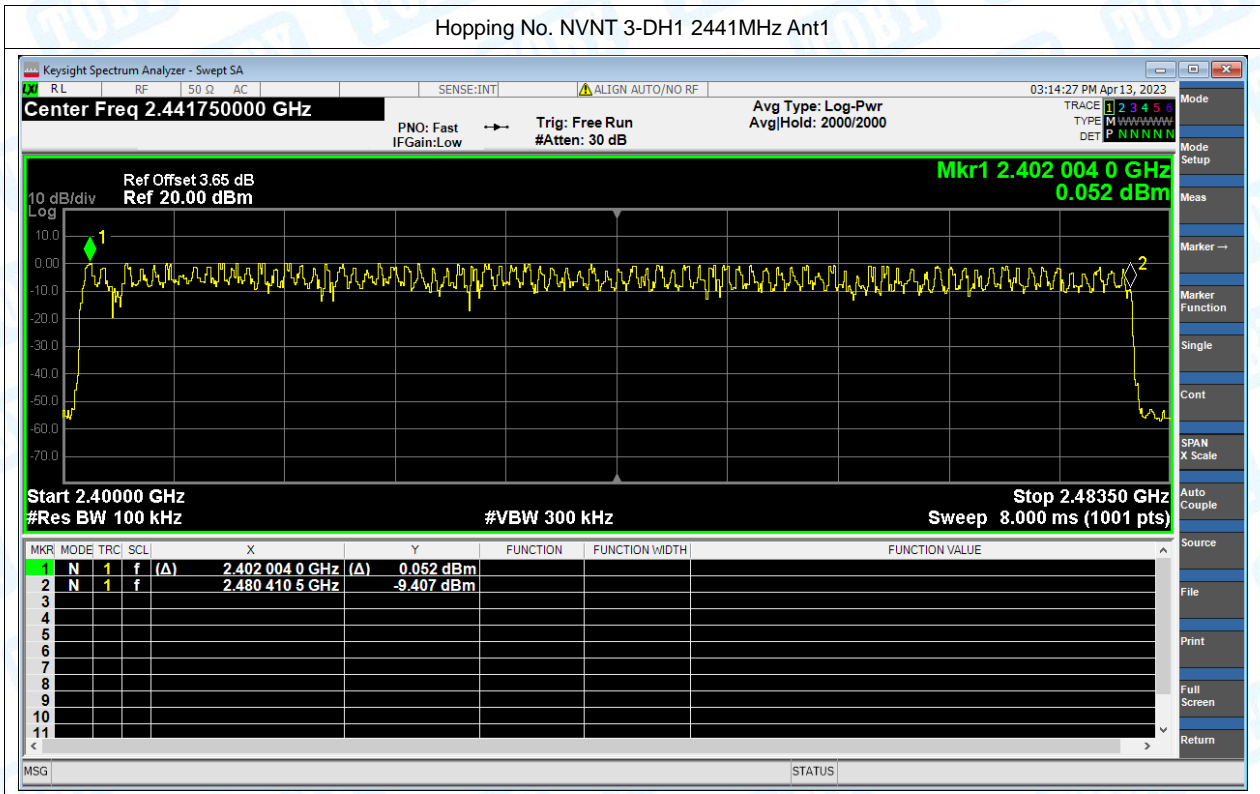
Test Graphs

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1



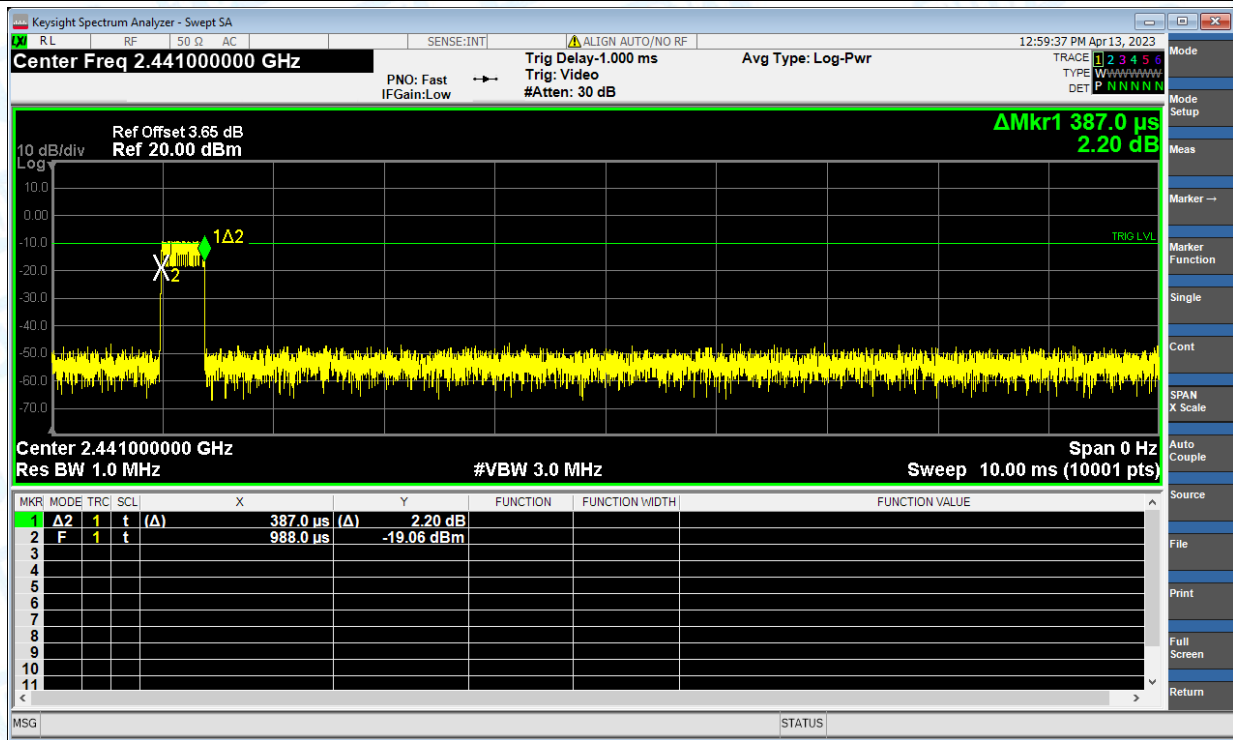


## 11. Dwell Time

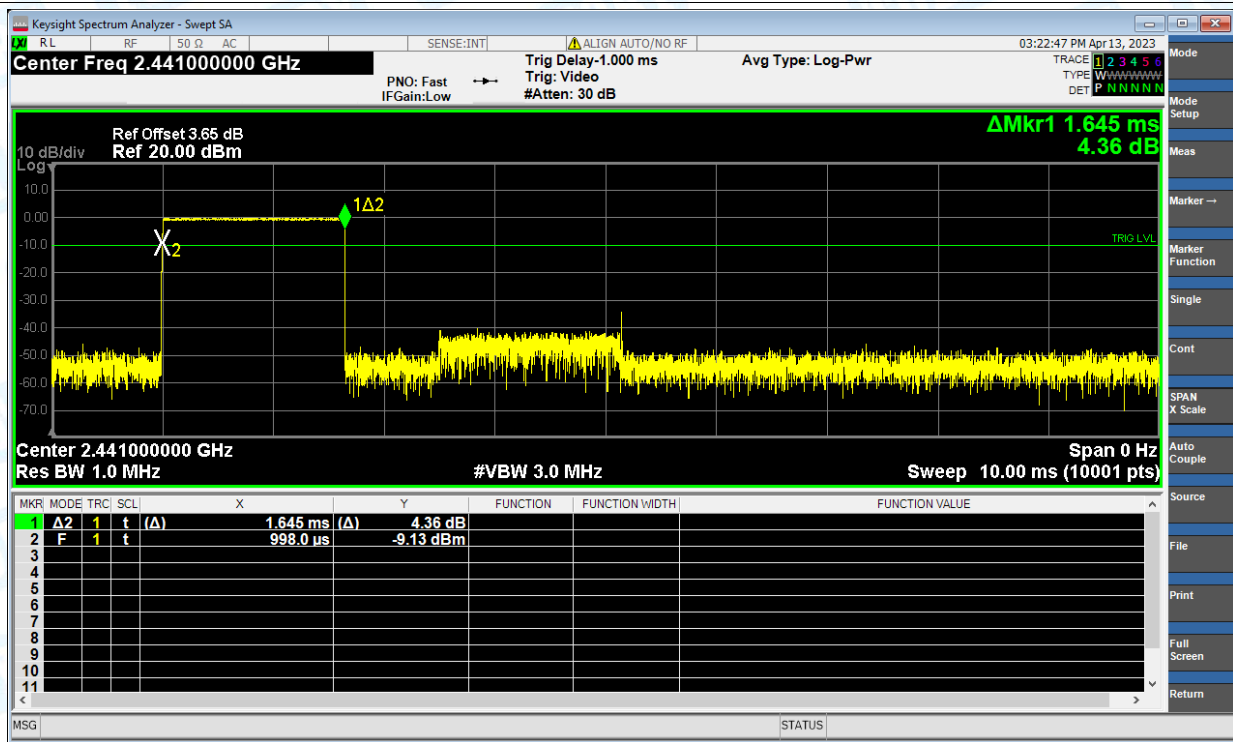
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.387	123.84	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.645	263.2	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.89	308.267	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.399	127.68	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.651	264.16	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.895	308.8	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.397	127.04	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.647	263.52	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.901	309.44	31600	400	Pass

Test Graphs

Dwell NVNT 1-DH1 2441MHz Ant1

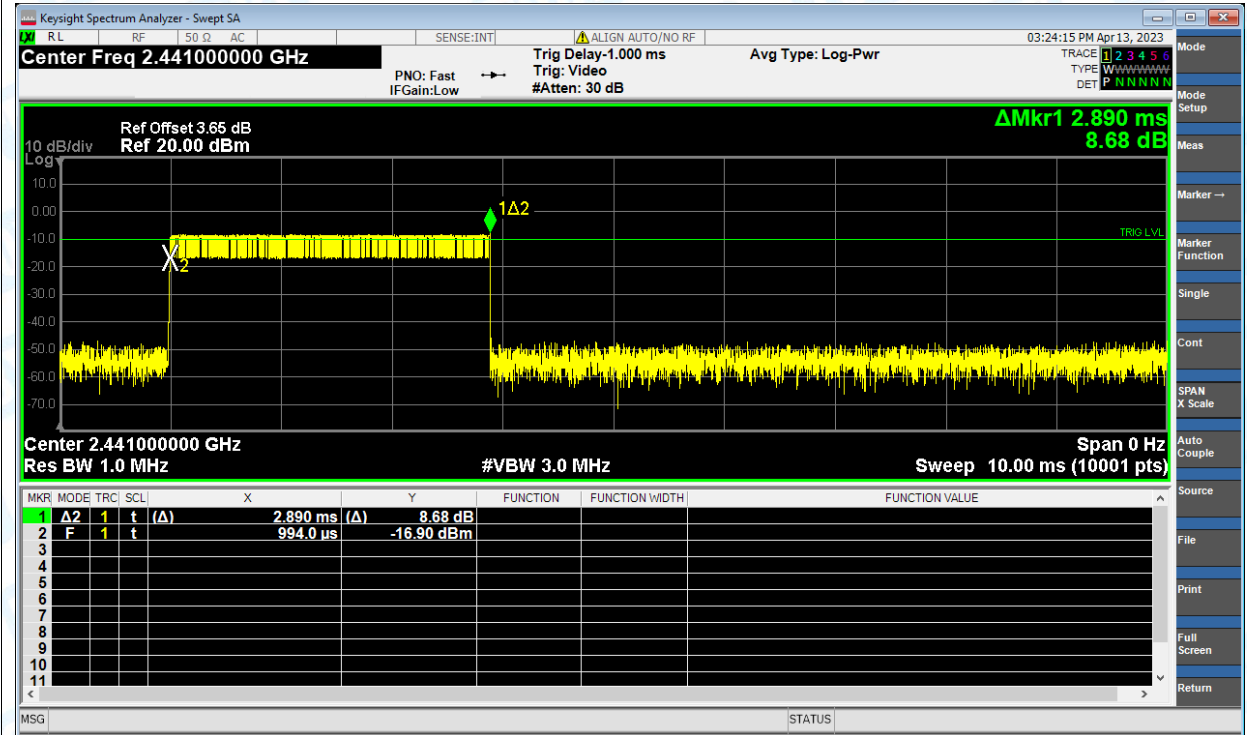


Dwell NVNT 1-DH3 2441MHz Ant1

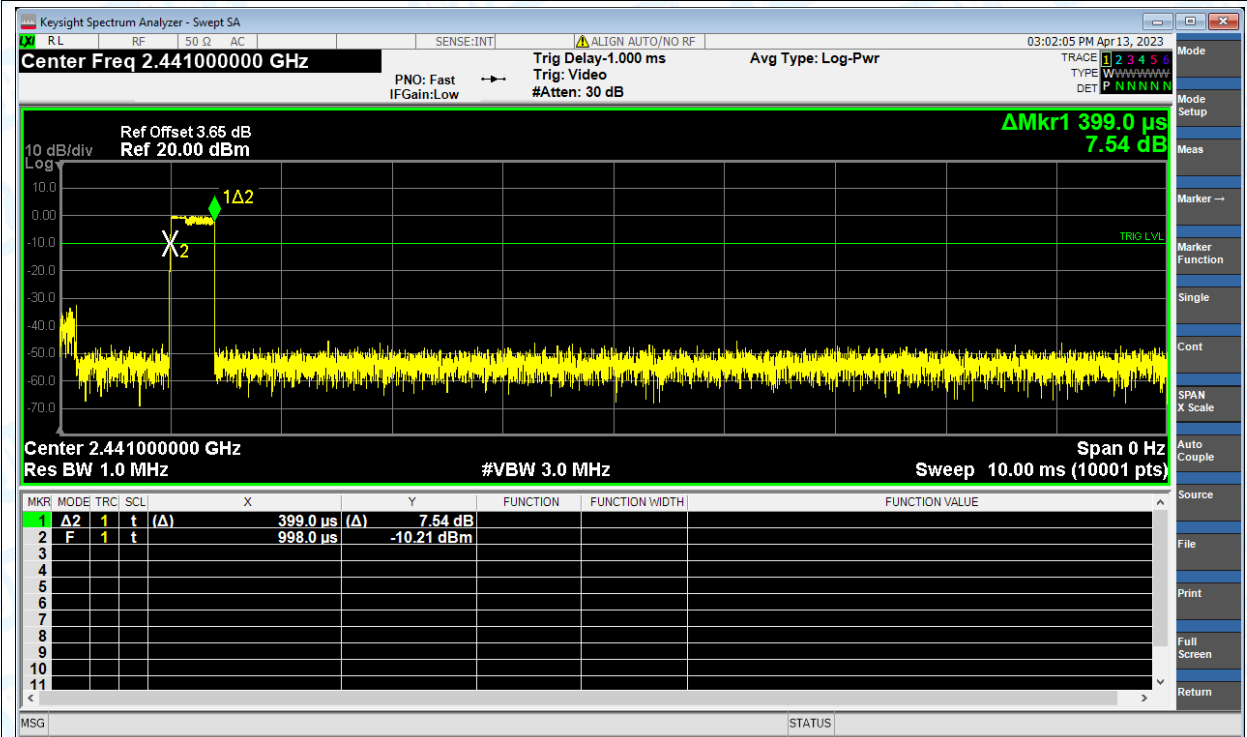




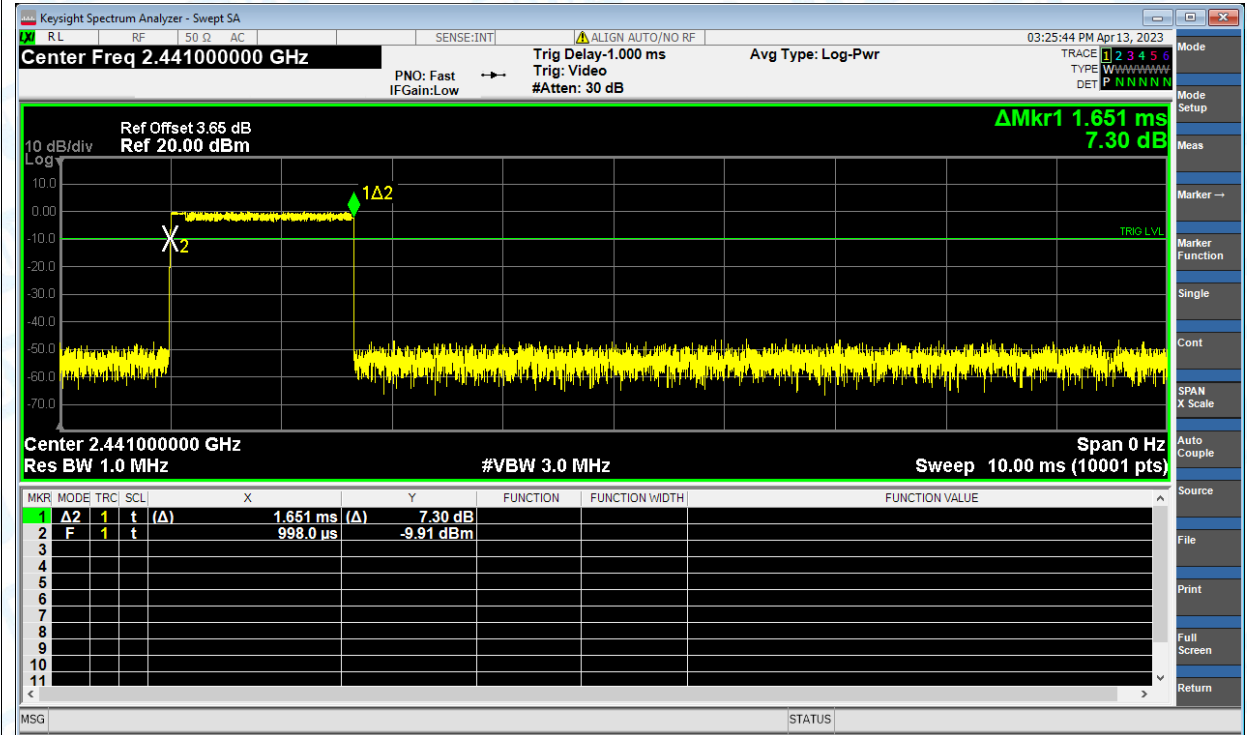
Dwell NVNT 1-DH5 2441MHz Ant1



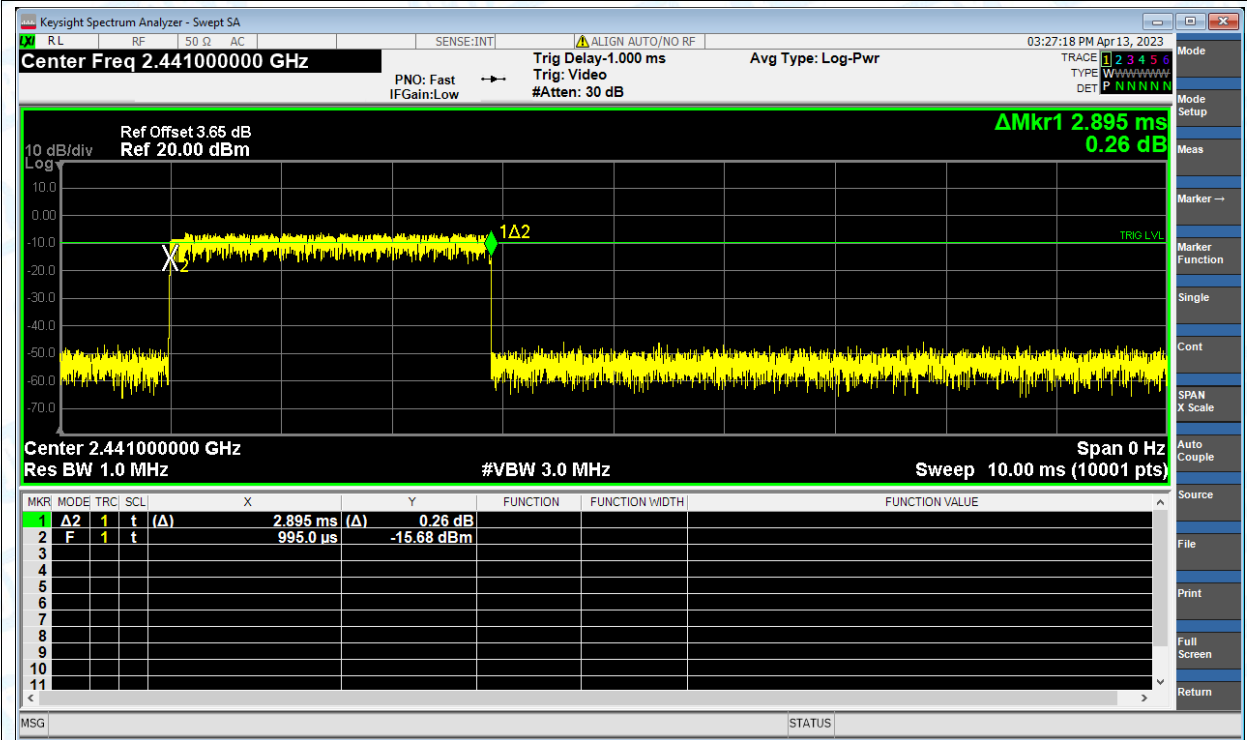
Dwell NVNT 2-DH1 2441MHz Ant1



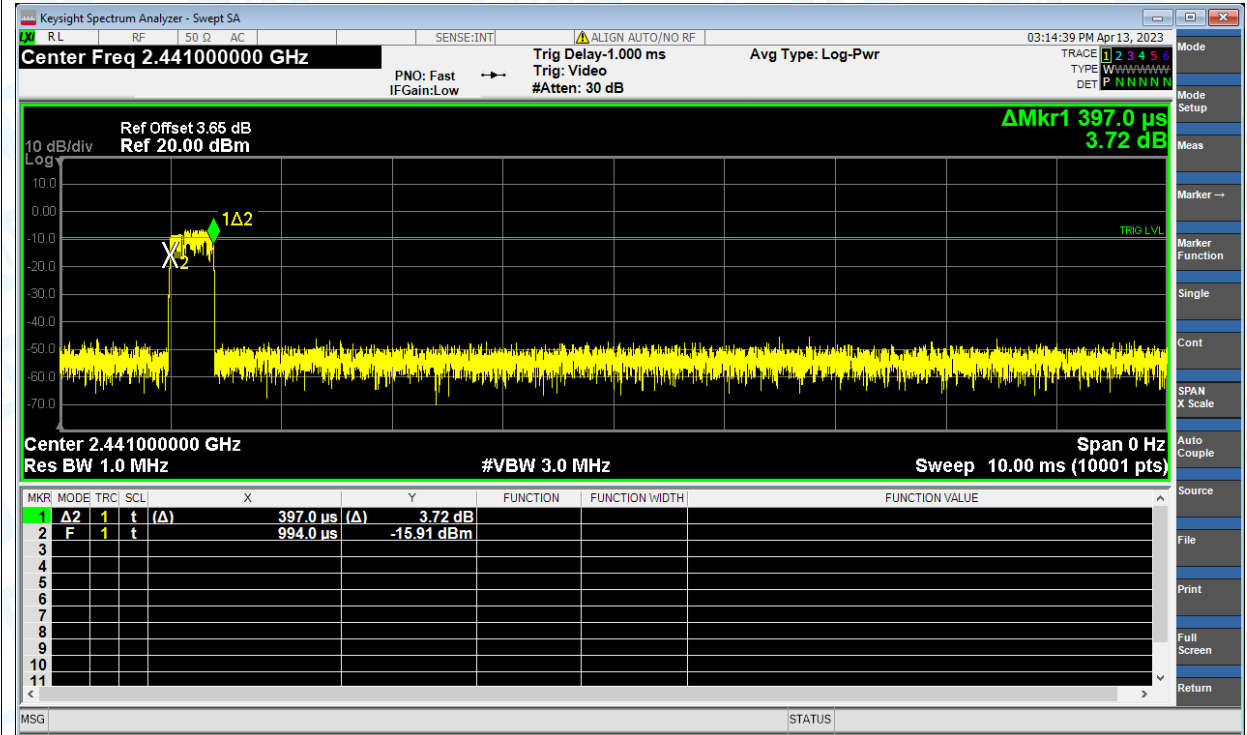
Dwell NVNT 2-DH3 2441MHz Ant1



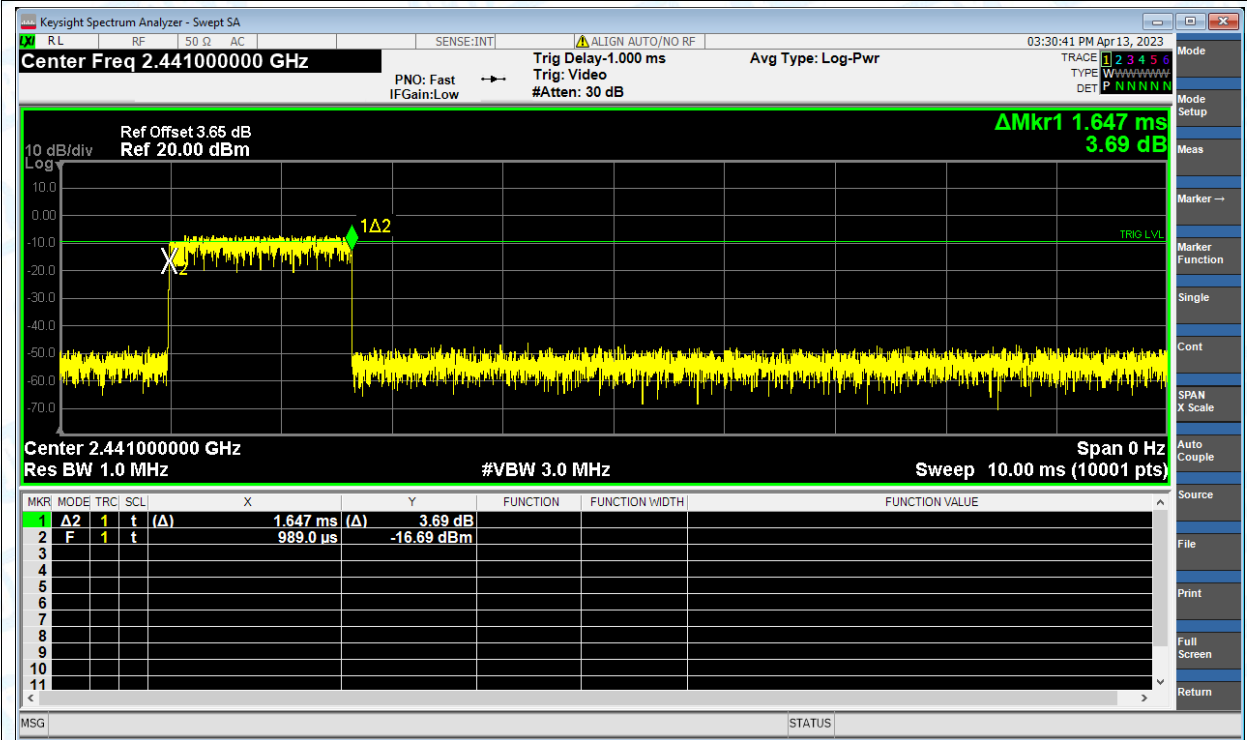
Dwell NVNT 2-DH5 2441MHz Ant1

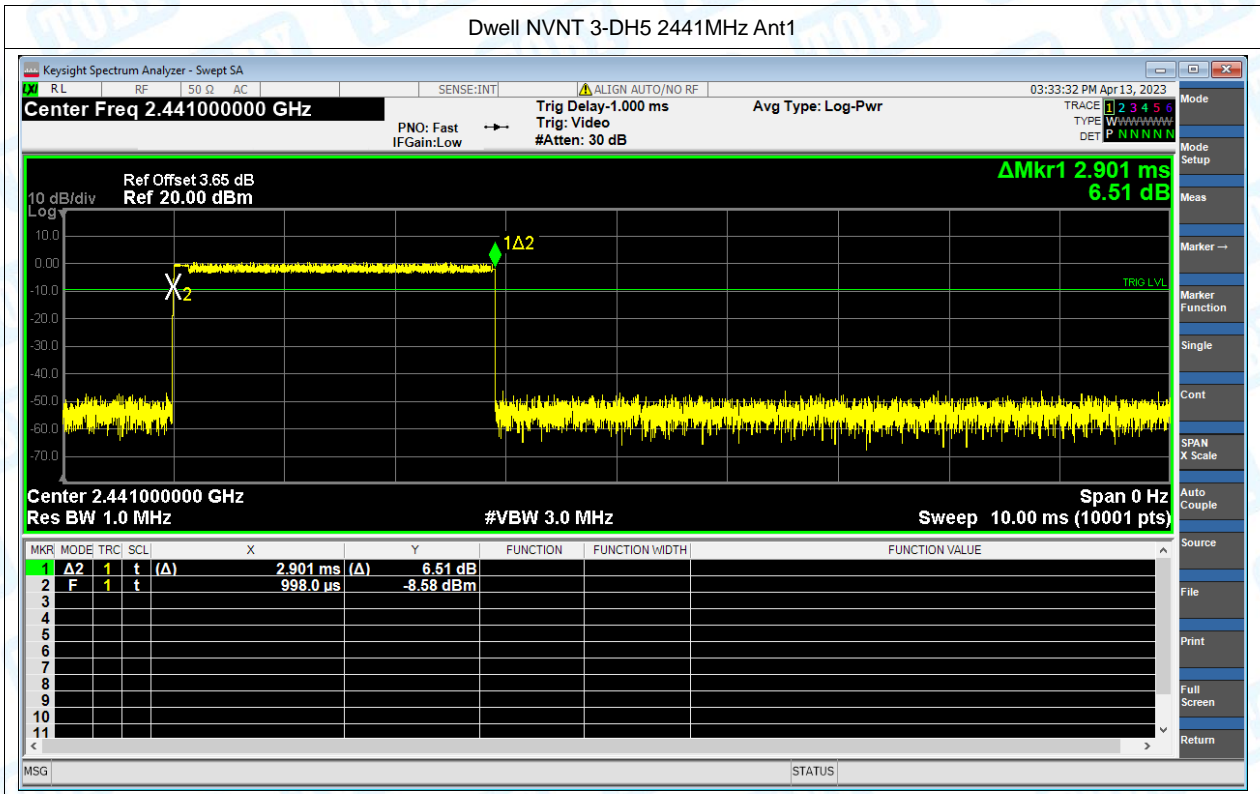


Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1





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