

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

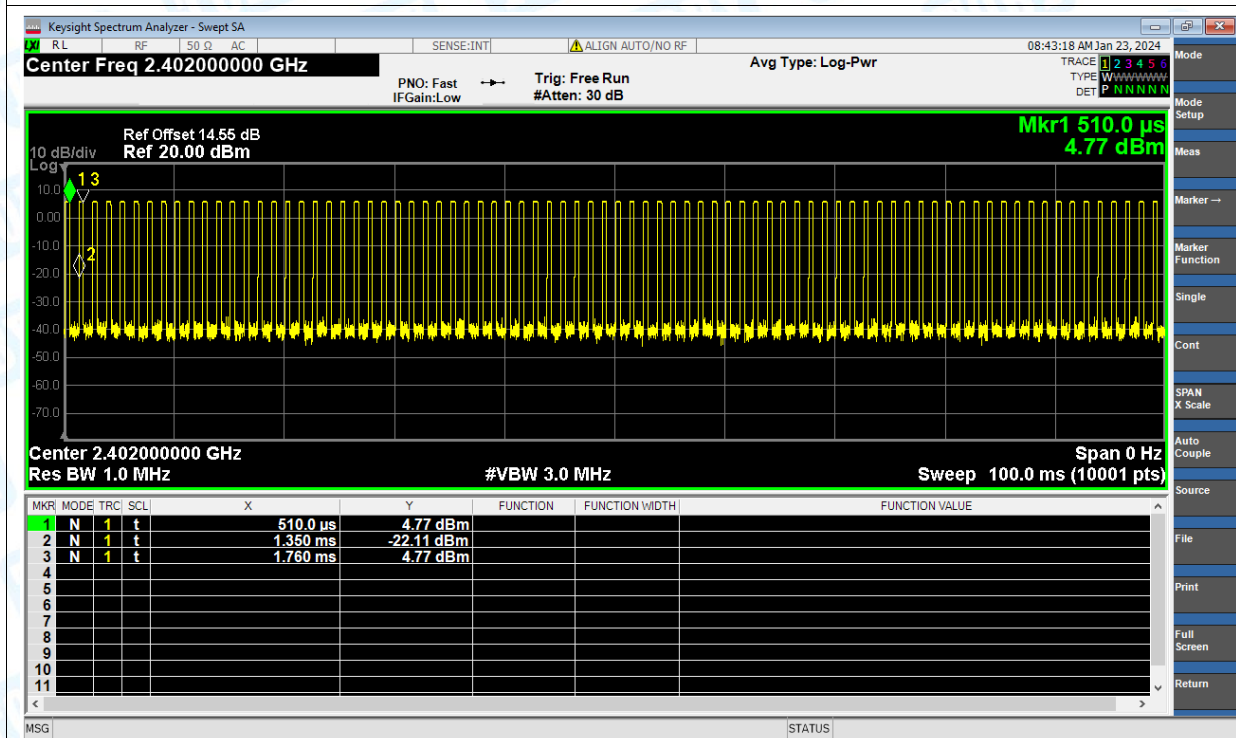
General Description of EUT	
Product Name:	Tablet
Test Model:	ZB10
Sample ID:	202312-0324-11-2#
Environmental Conditions	
Temperature:	24℃
Relative Humidity:	50%
Test Voltage:	DC 3.8V
Test Engineer:	yanzhenming
Note: For a more detailed features description, please refer to the report TBR-C-202312-0324-26 The report only show the worst case data.	

Duty Cycle

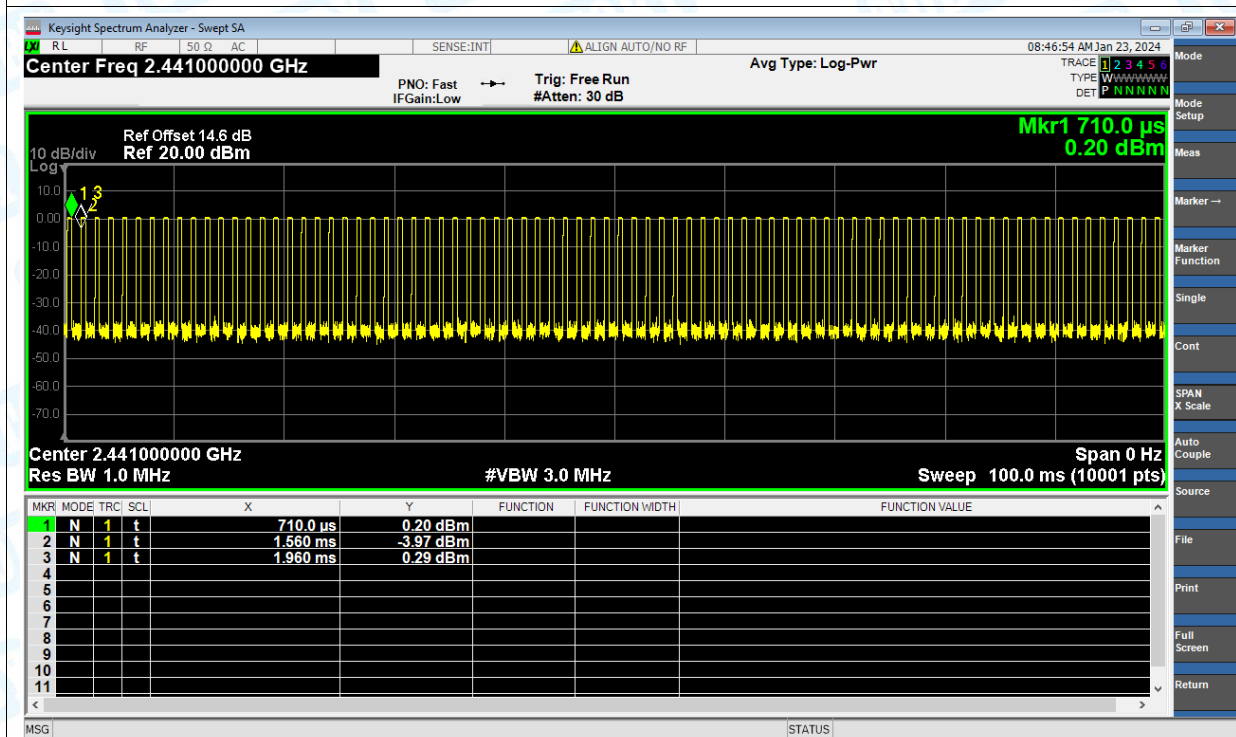
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	32.8	4.84	2.44
NVNT	1-DH1	2441	Ant1	32	4.95	2.5
NVNT	1-DH1	2480	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2402	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2441	Ant1	30.4	5.17	2.63
NVNT	2-DH1	2480	Ant1	31.2	5.06	2.56
NVNT	3-DH1	2402	Ant1	30.4	5.17	2.63
NVNT	3-DH1	2441	Ant1	30.4	5.17	2.63
NVNT	3-DH1	2480	Ant1	30.4	5.17	2.63

Test Graphs

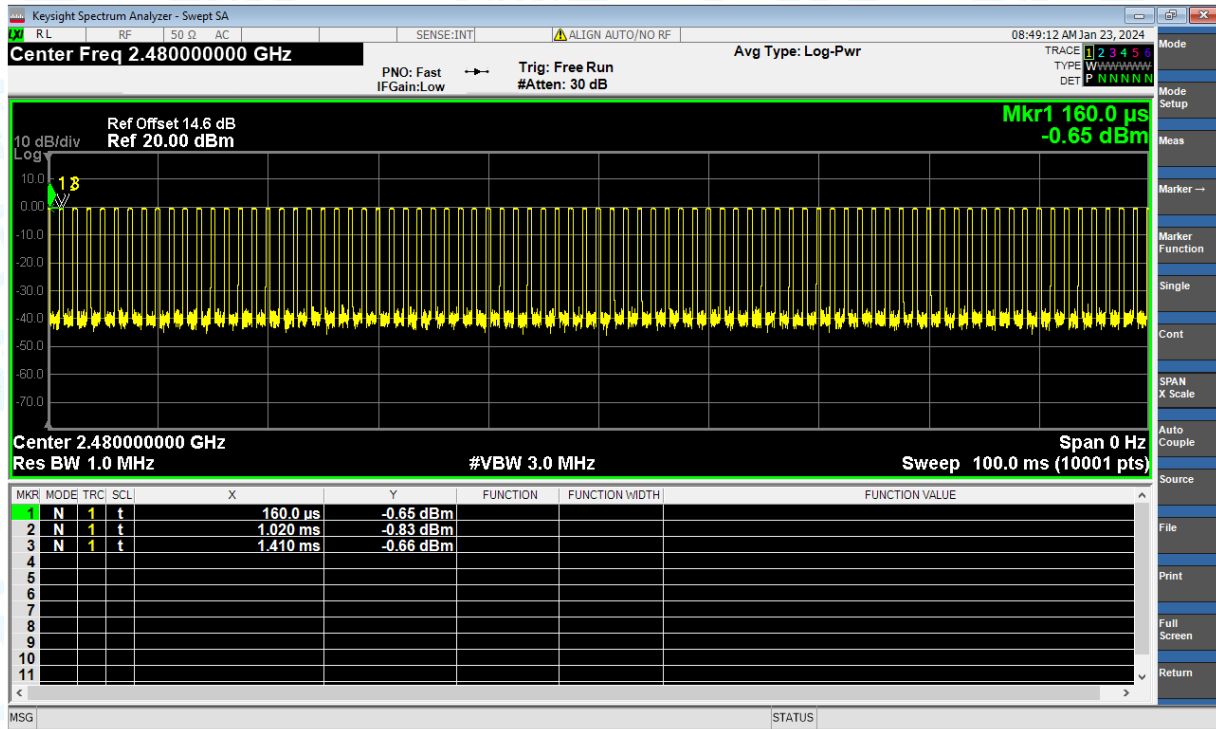
Duty Cycle NVNT 1-DH1 2402MHz Ant1



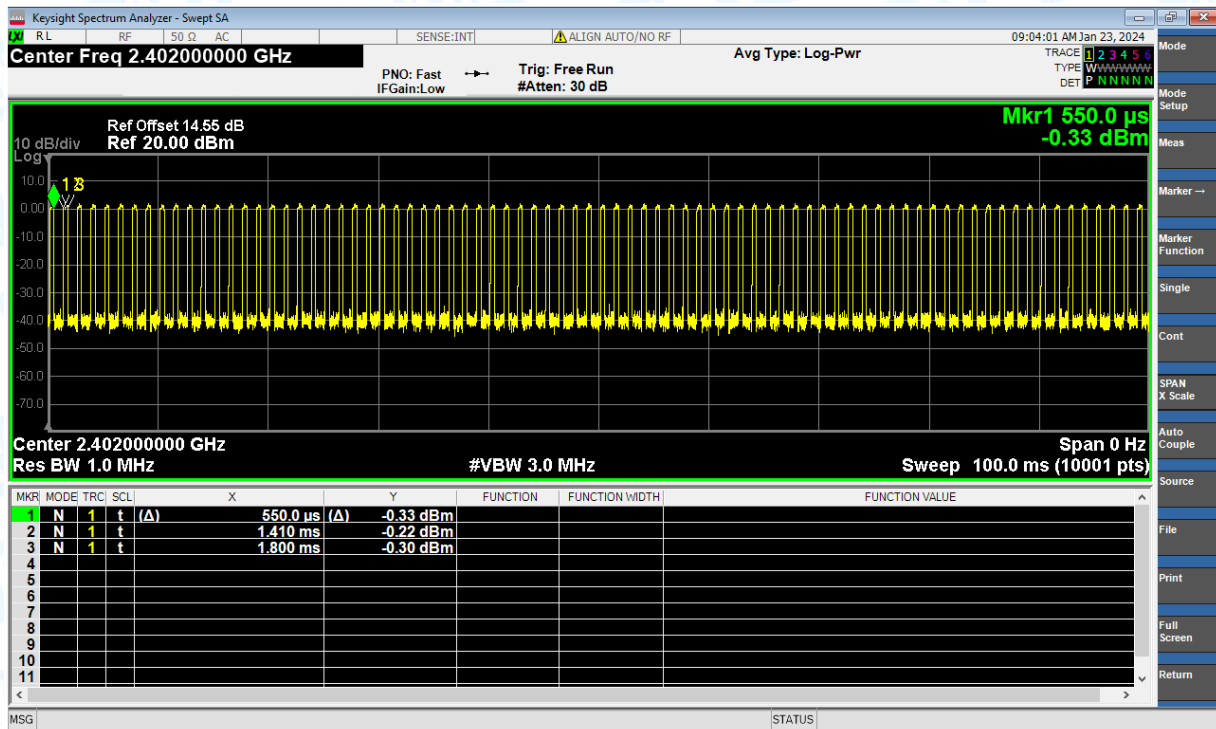
Duty Cycle NVNT 1-DH1 2441MHz Ant1



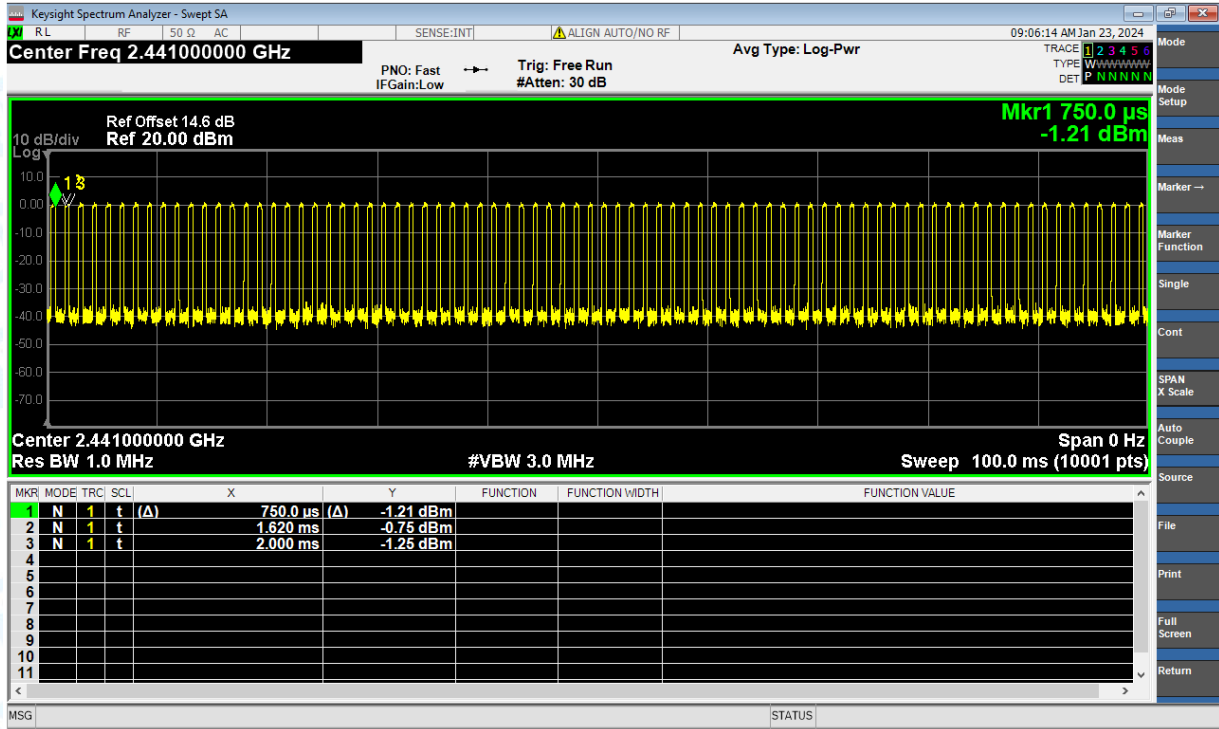
Duty Cycle NVNT 1-DH1 2480MHz Ant1



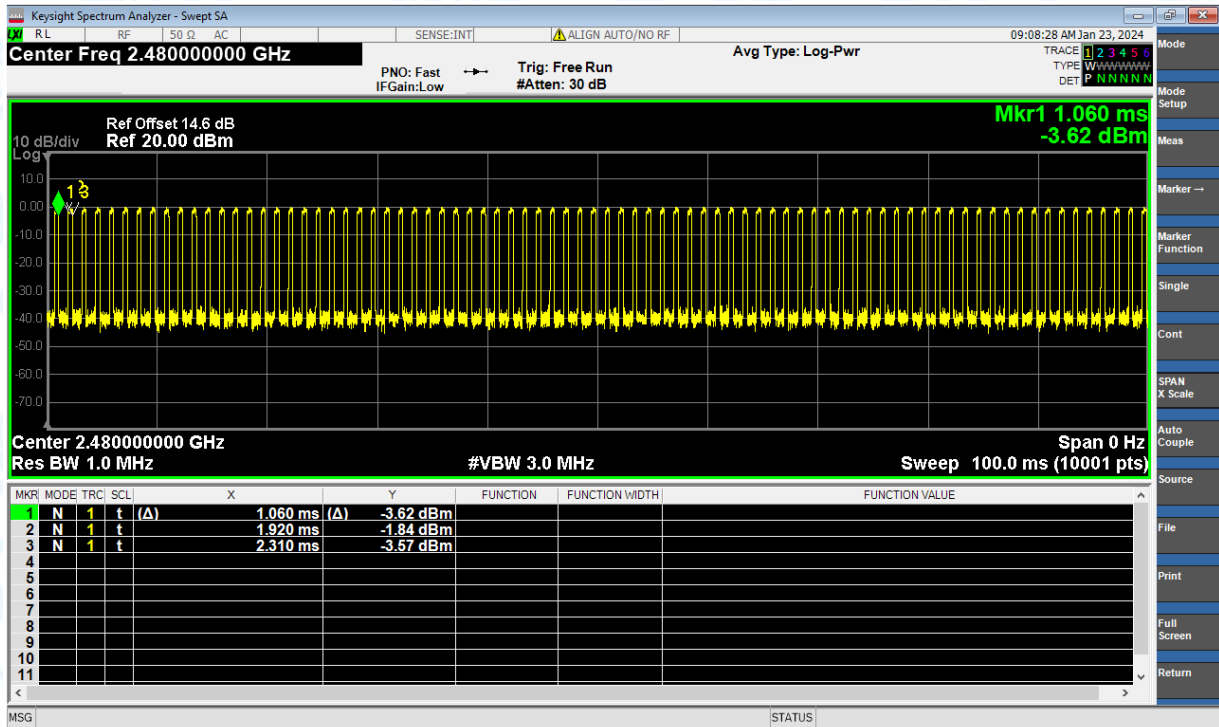
Duty Cycle NVNT 2-DH1 2402MHz Ant1



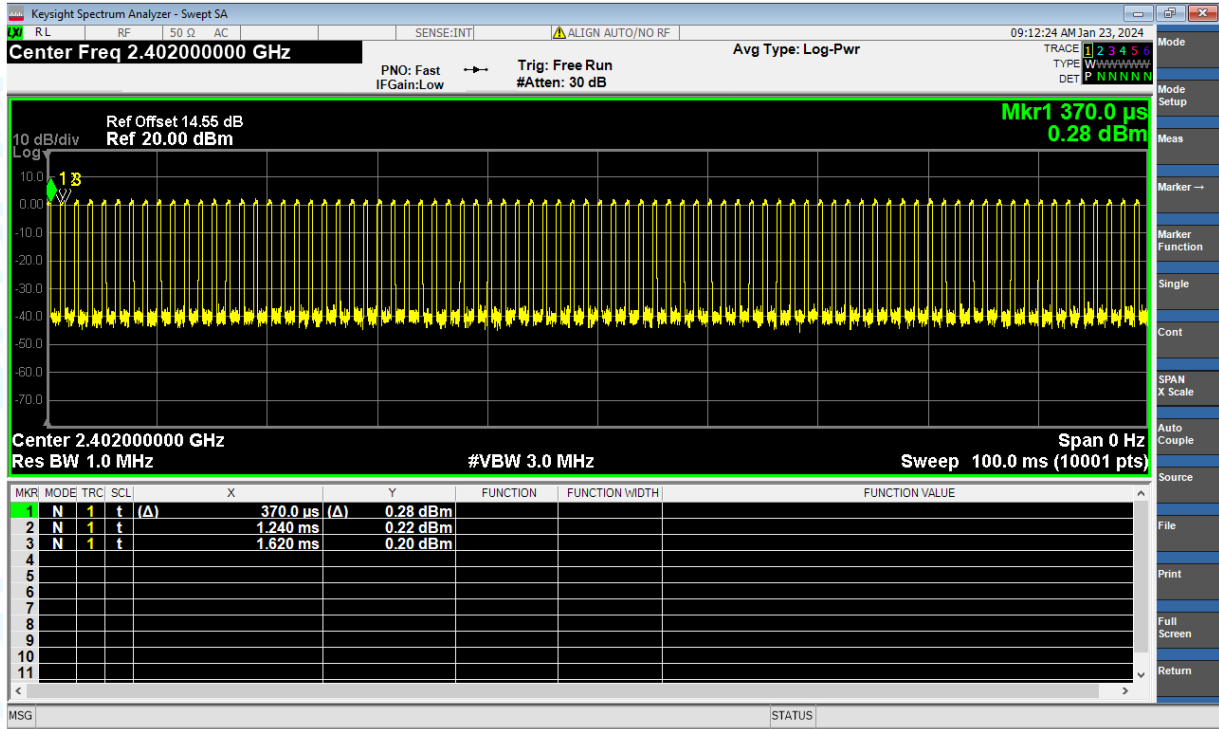
Duty Cycle NVNT 2-DH1 2441MHz Ant1



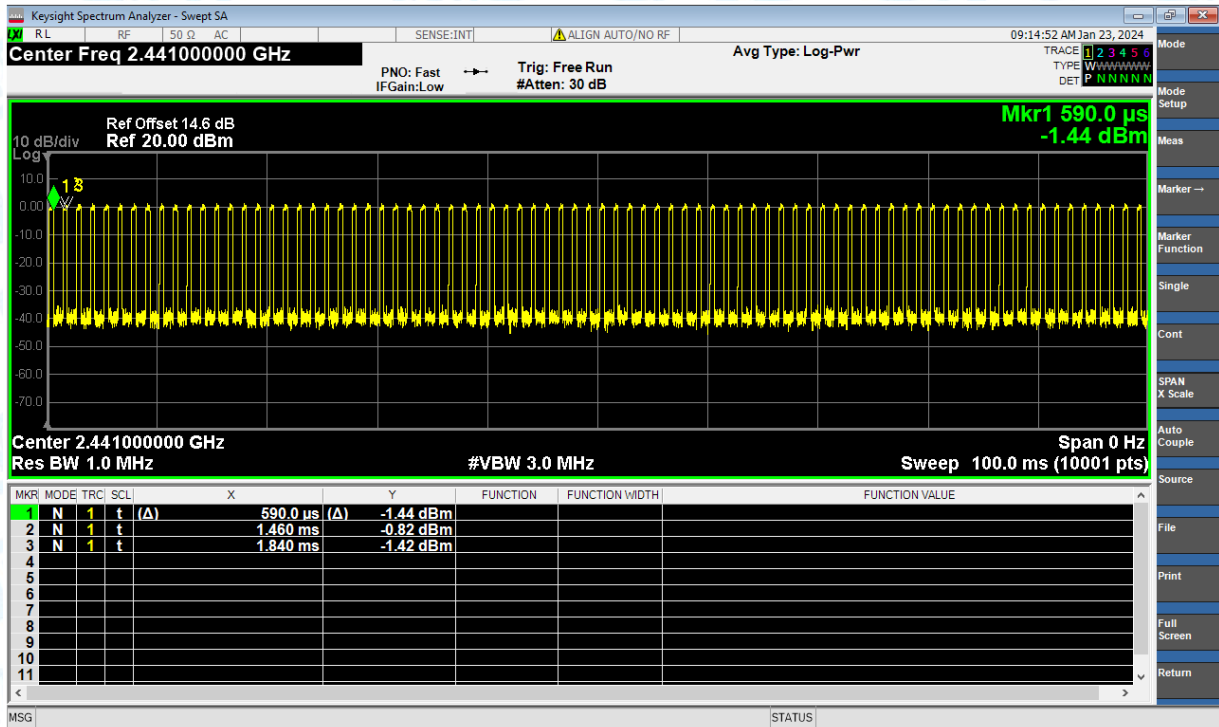
Duty Cycle NVNT 2-DH1 2480MHz Ant1

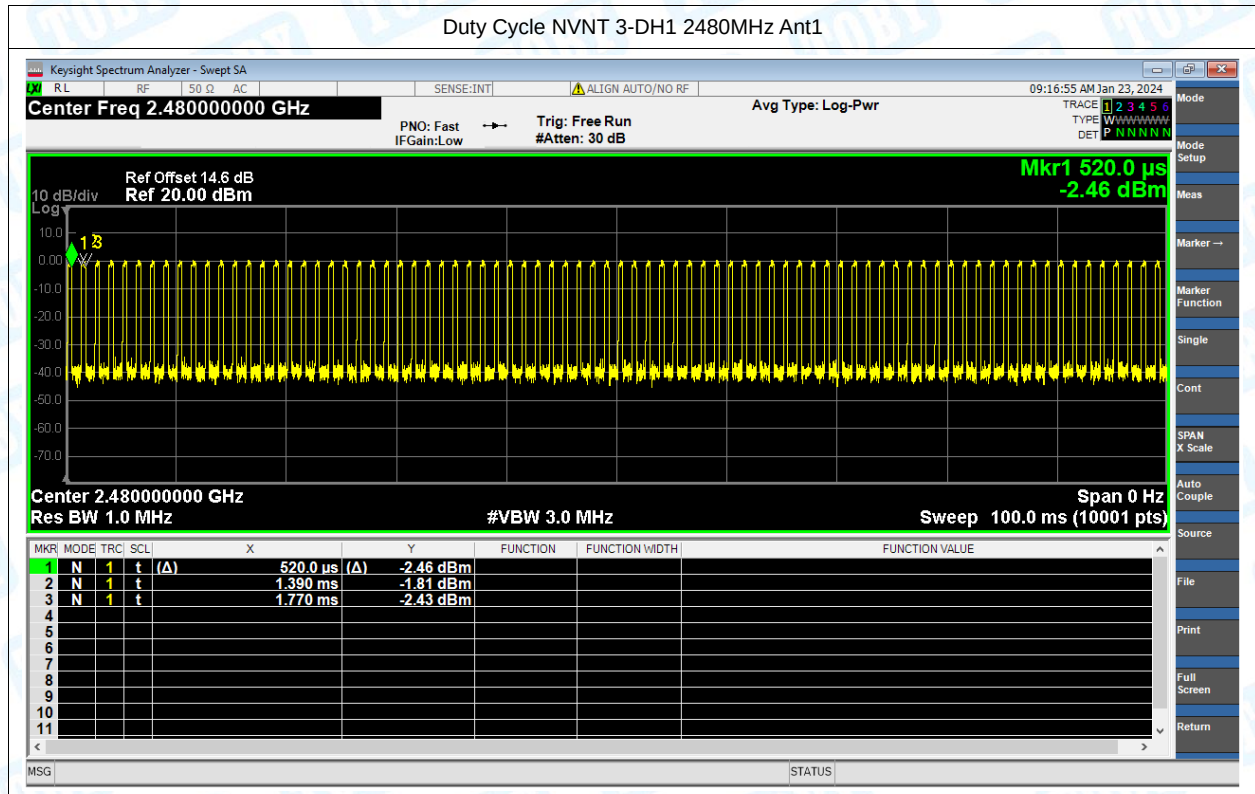


Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1



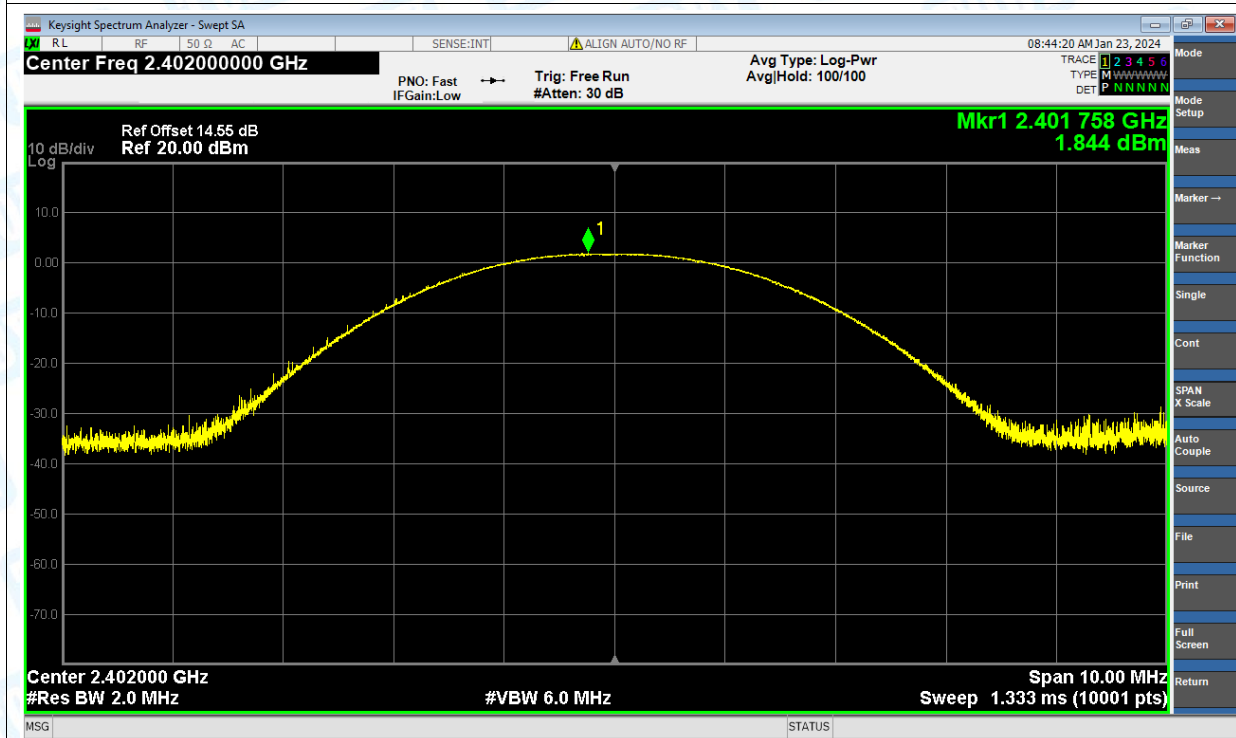


Maximum Conducted Output Power

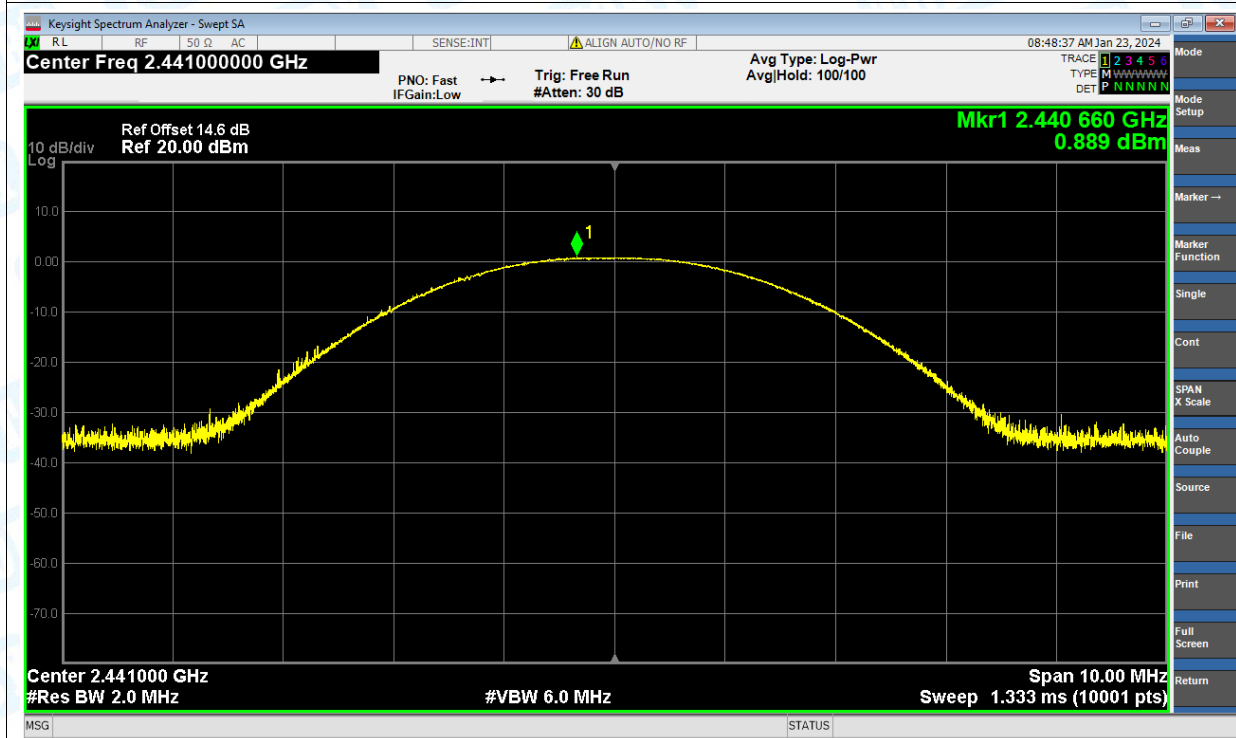
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	1.844	21	Pass
NVNT	1-DH1	2441	Ant1	0.889	21	Pass
NVNT	1-DH1	2480	Ant1	2.498	21	Pass
NVNT	2-DH1	2402	Ant1	2.348	21	Pass
NVNT	2-DH1	2441	Ant1	1.487	21	Pass
NVNT	2-DH1	2480	Ant1	0.6	21	Pass
NVNT	3-DH1	2402	Ant1	2.614	21	Pass
NVNT	3-DH1	2441	Ant1	1.723	21	Pass
NVNT	3-DH1	2480	Ant1	0.86	21	Pass

Test Graphs

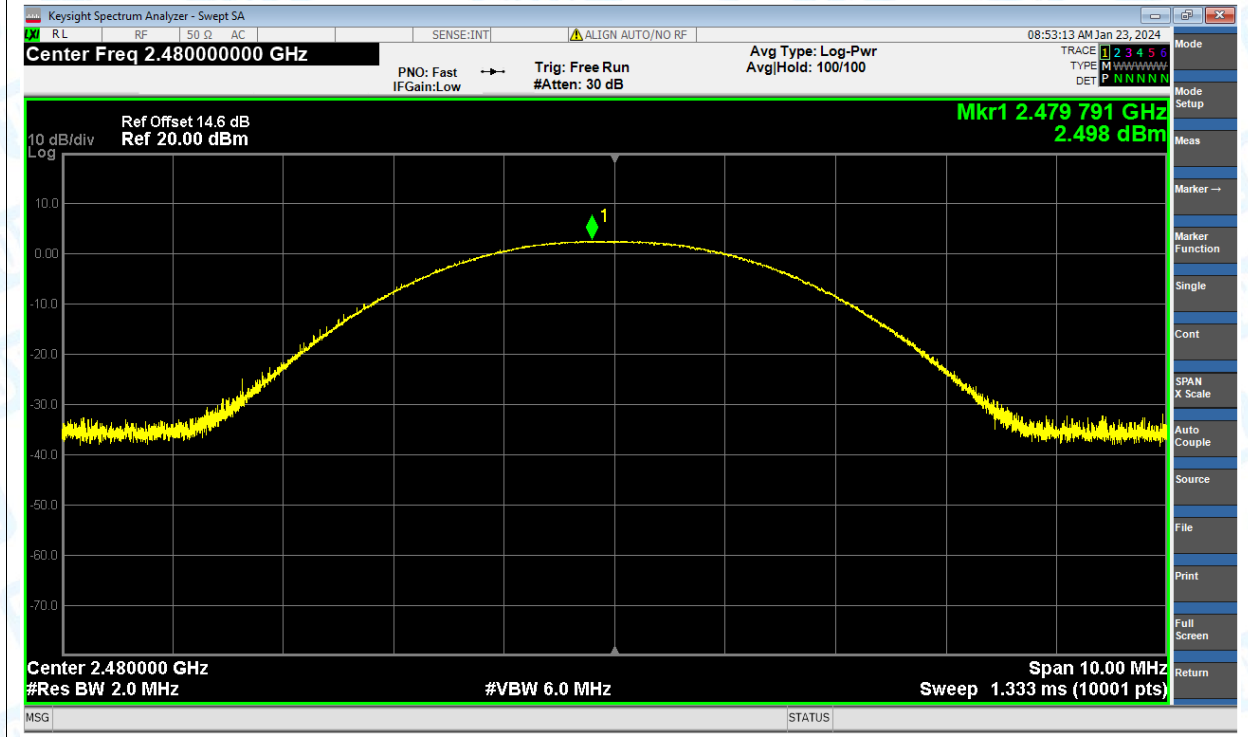
Power NVNT 1-DH1 2402MHz Ant1



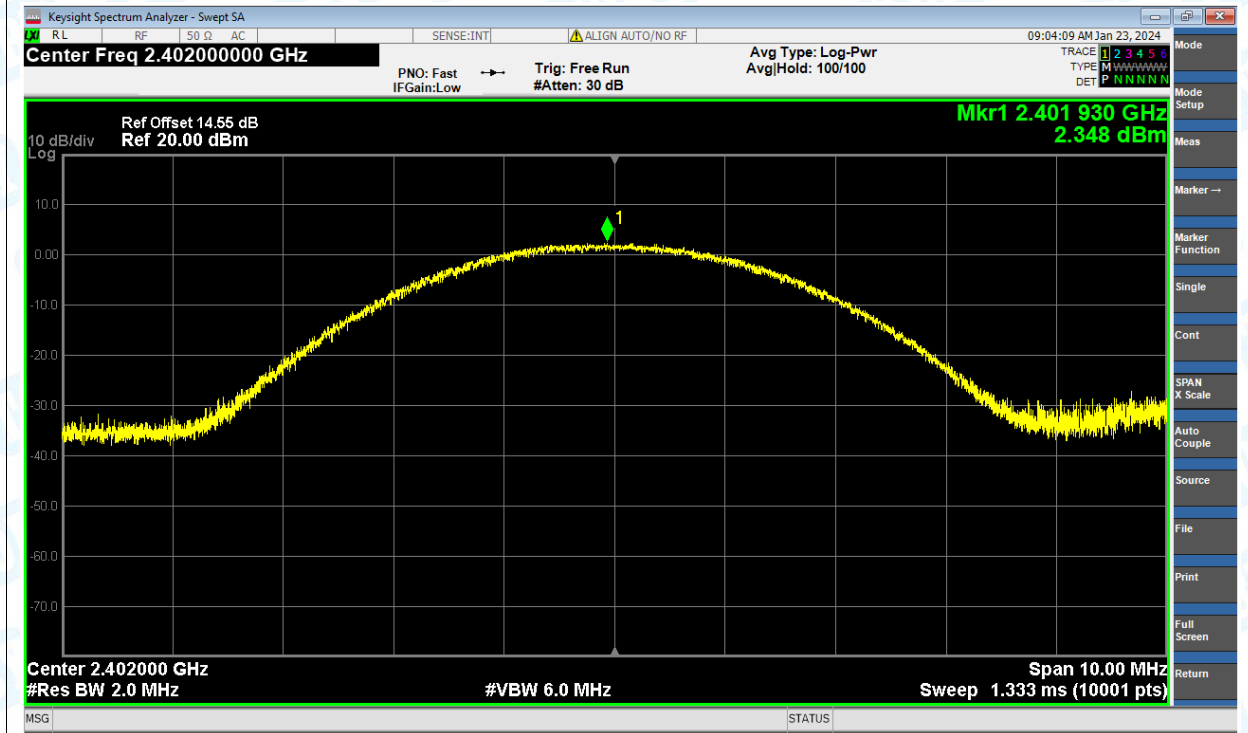
Power NVNT 1-DH1 2441MHz Ant1



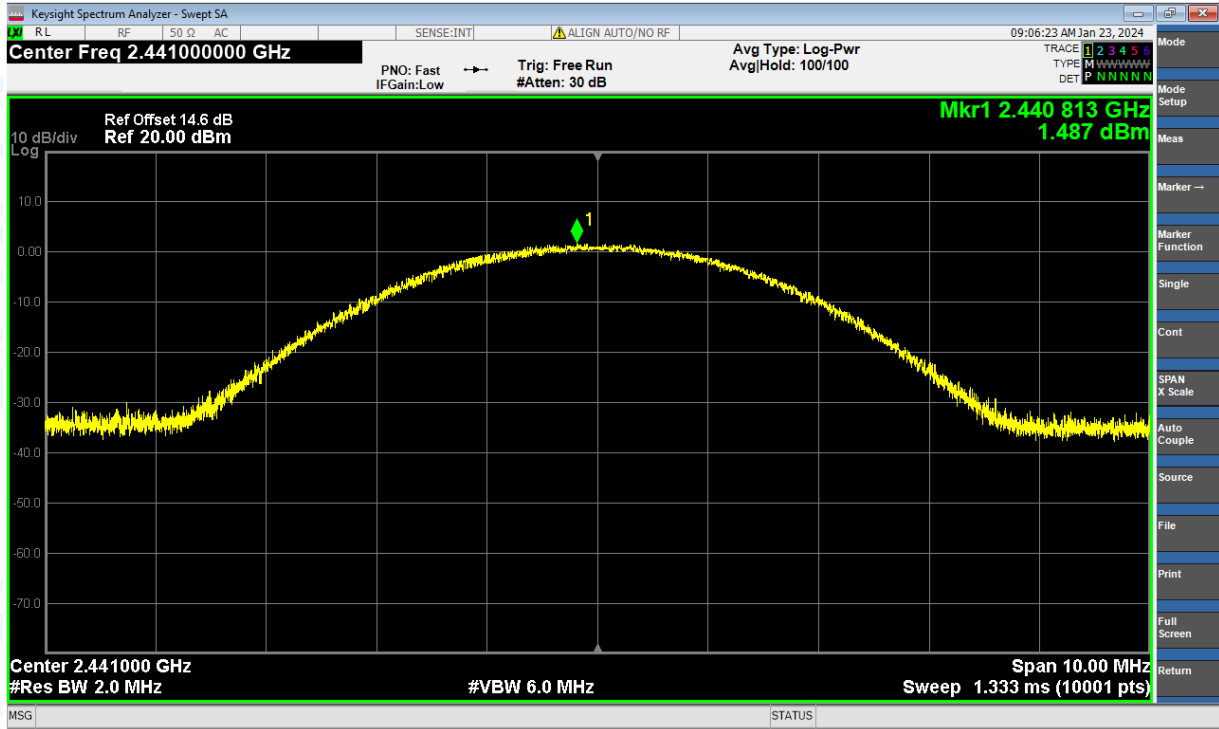
Power NVNT 1-DH1 2480MHz Ant1



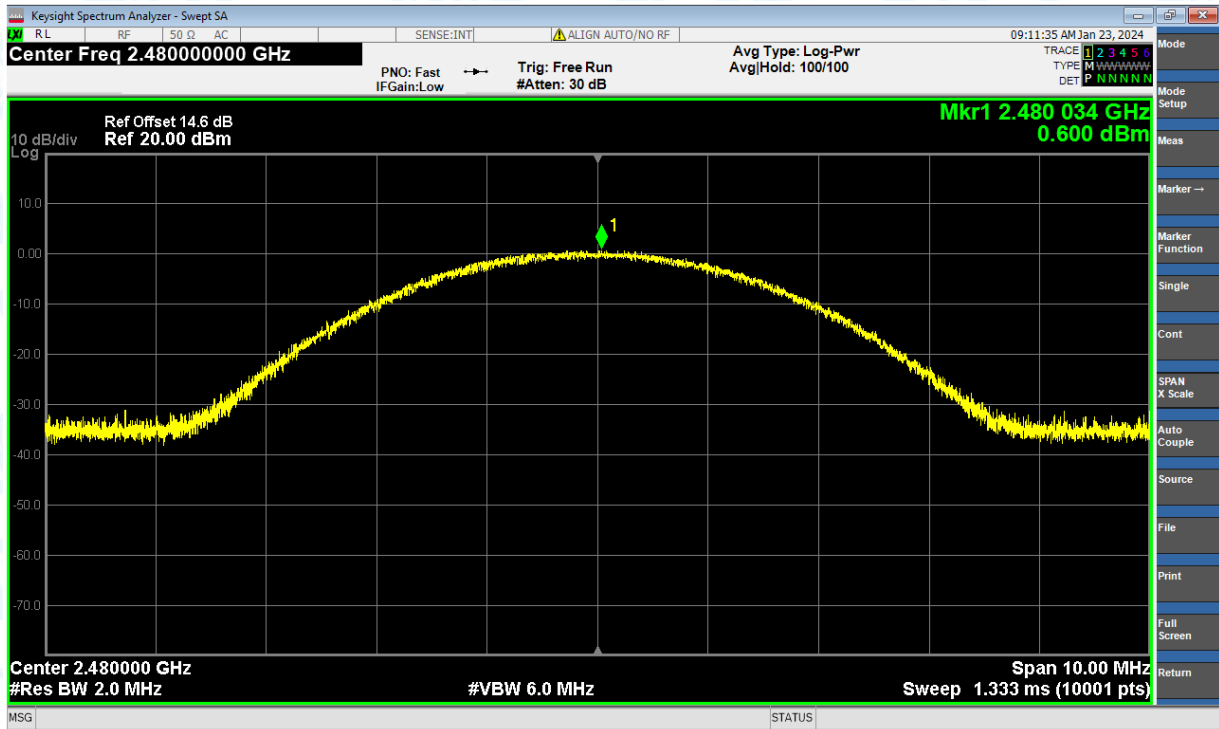
Power NVNT 2-DH1 2402MHz Ant1



Power NVNT 2-DH1 2441MHz Ant1



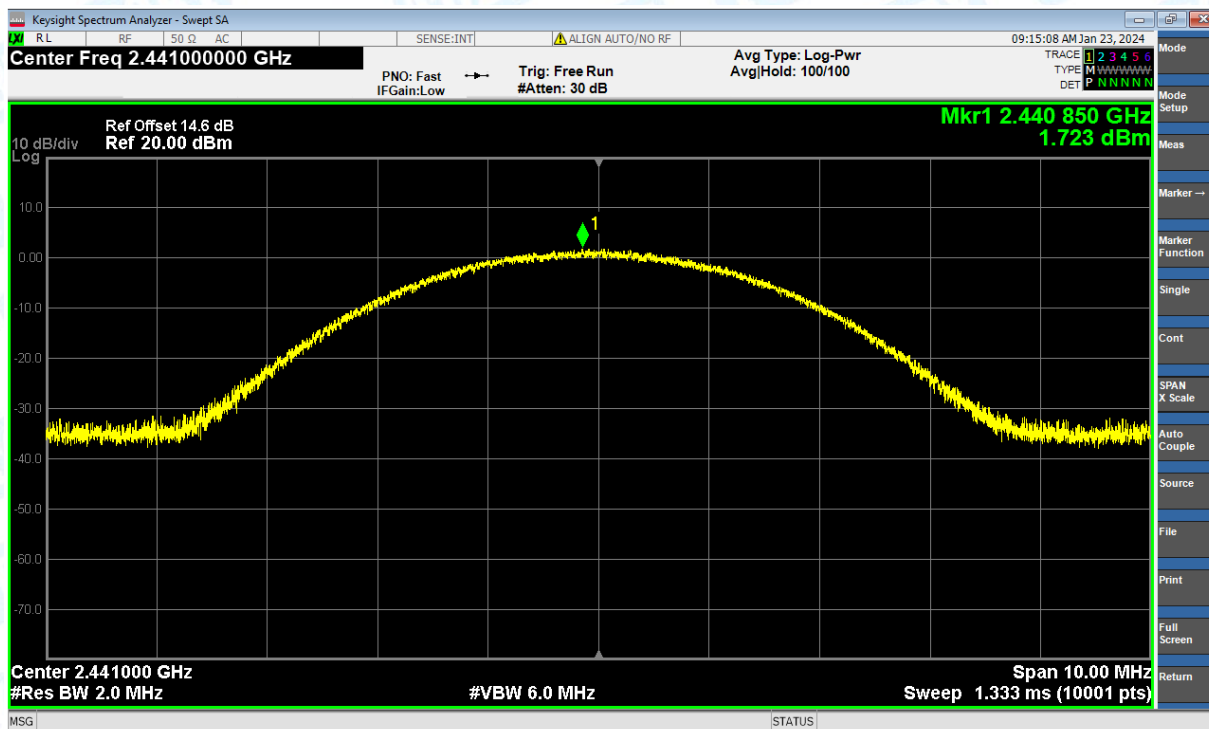
Power NVNT 2-DH1 2480MHz Ant1



Power NVNT 3-DH1 2402MHz Ant1



Power NVNT 3-DH1 2441MHz Ant1



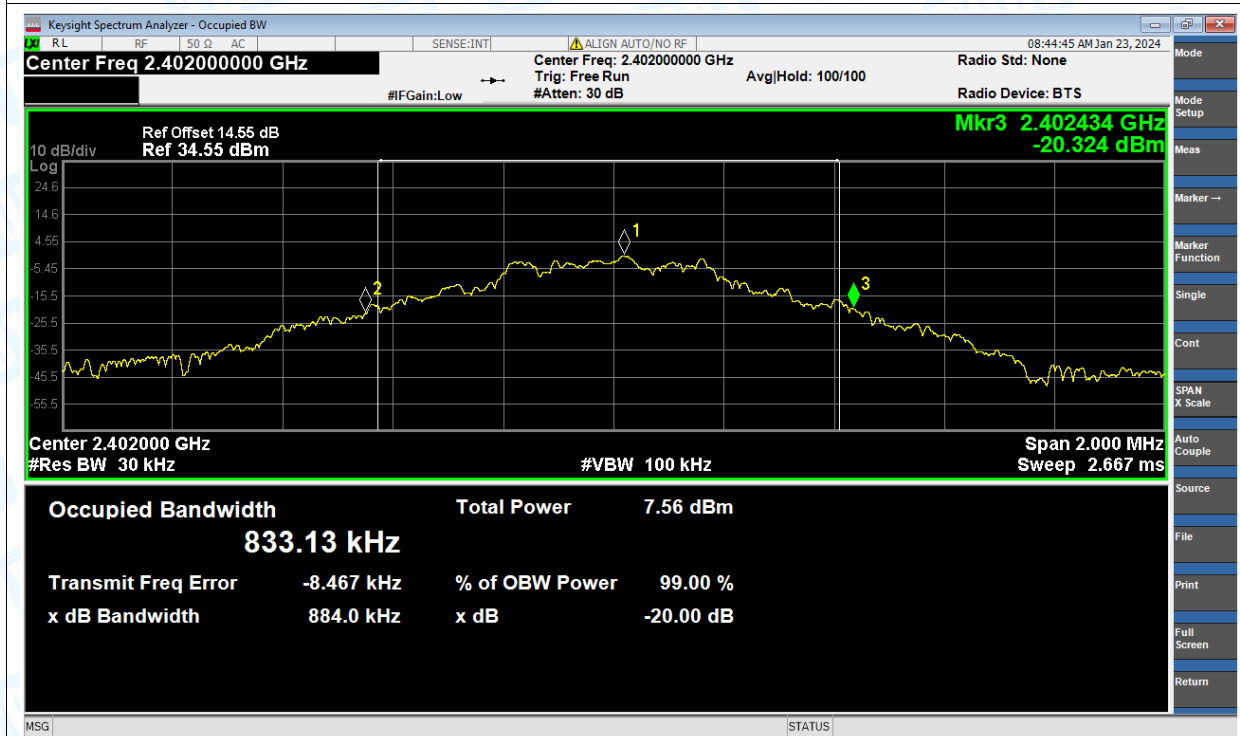


-20dB Bandwidth

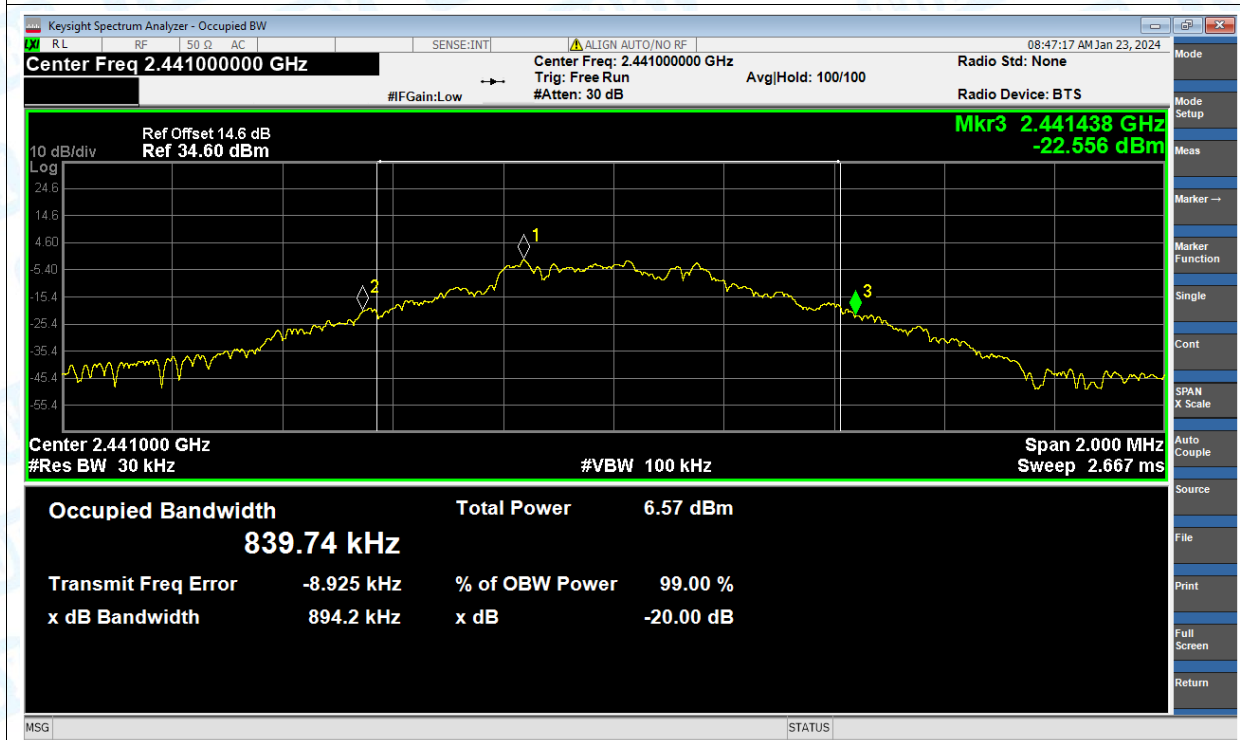
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.88	0	Pass
NVNT	1-DH1	2441	Ant1	0.89	0	Pass
NVNT	1-DH1	2480	Ant1	0.87	0	Pass
NVNT	2-DH1	2402	Ant1	1.26	0	Pass
NVNT	2-DH1	2441	Ant1	1.26	0	Pass
NVNT	2-DH1	2480	Ant1	1.26	0	Pass
NVNT	3-DH1	2402	Ant1	1.22	0	Pass
NVNT	3-DH1	2441	Ant1	1.23	0	Pass
NVNT	3-DH1	2480	Ant1	1.25	0	Pass

Test Graphs

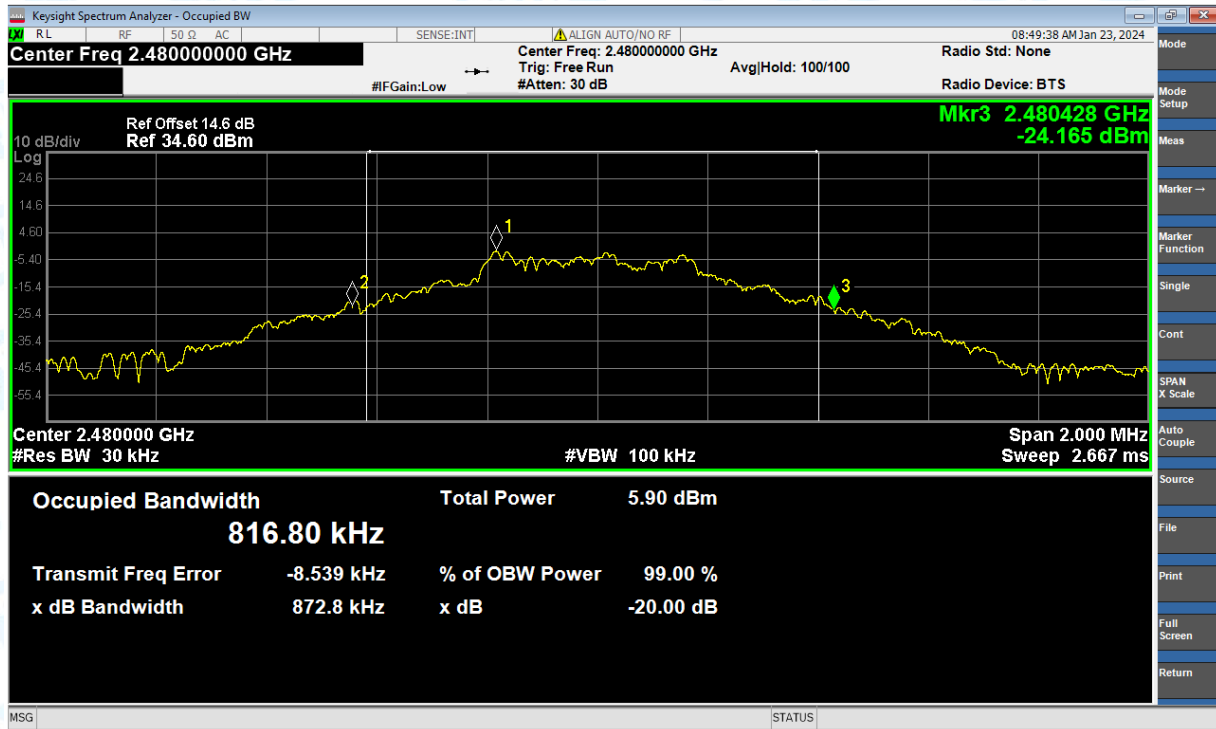
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



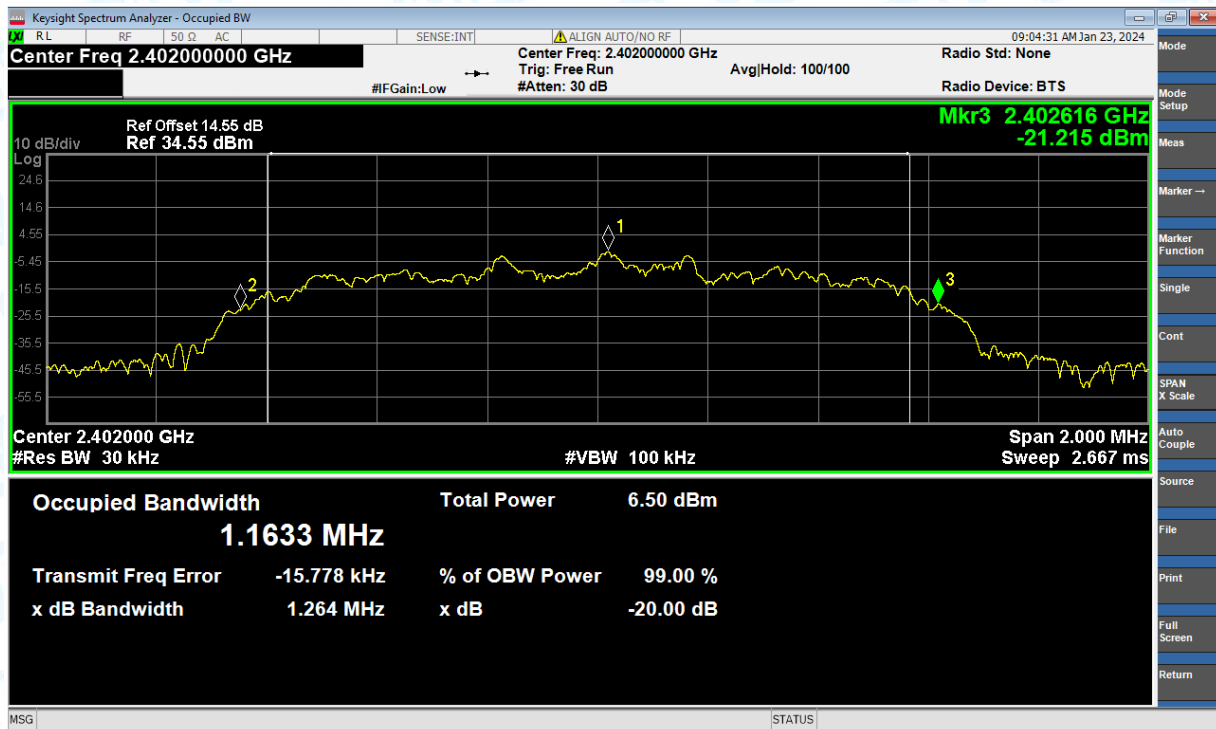
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



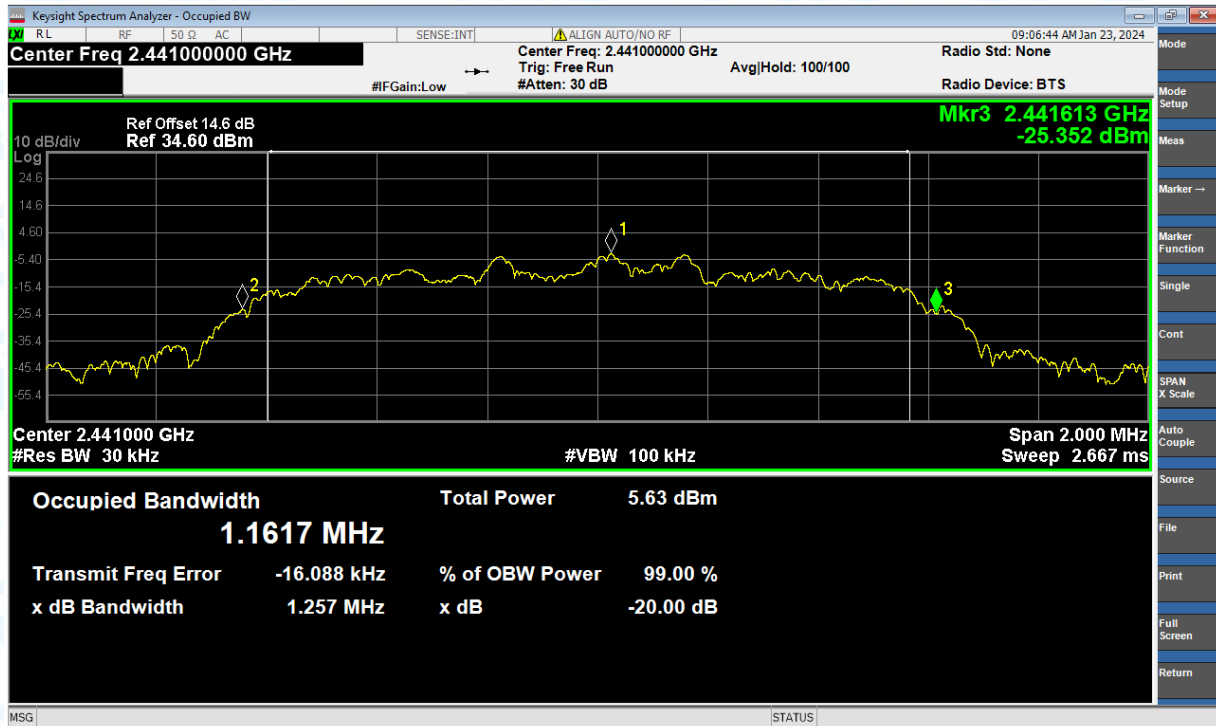
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



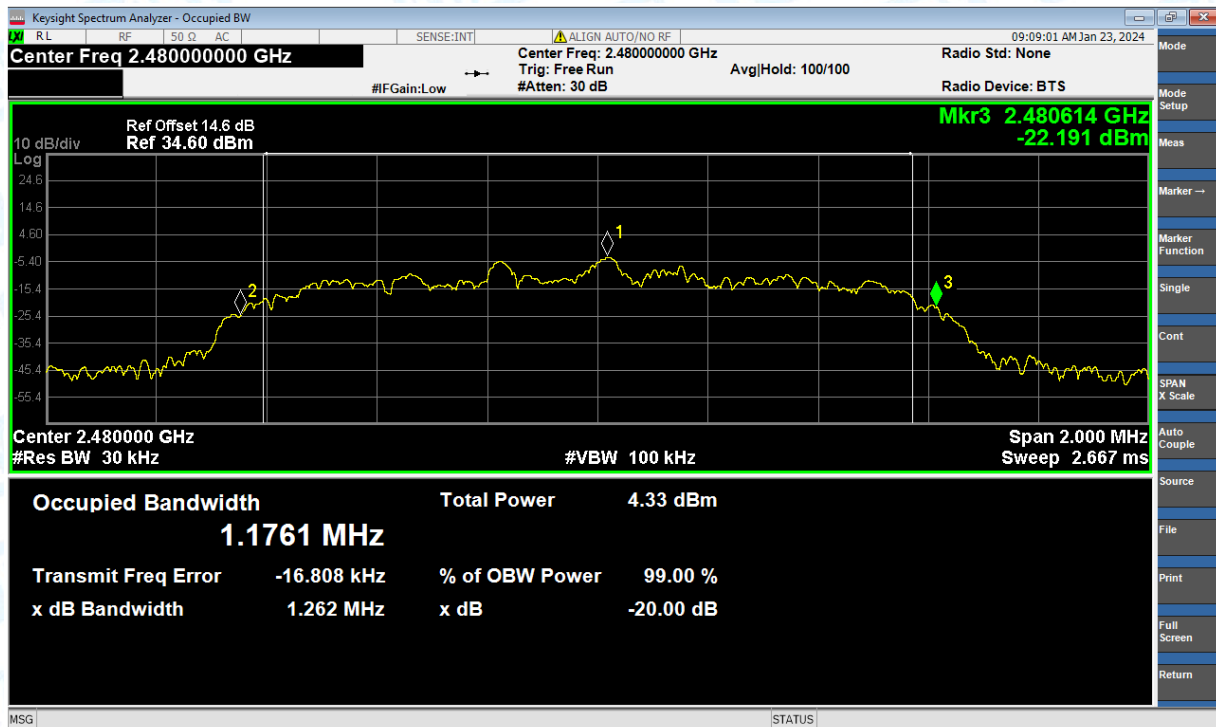
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



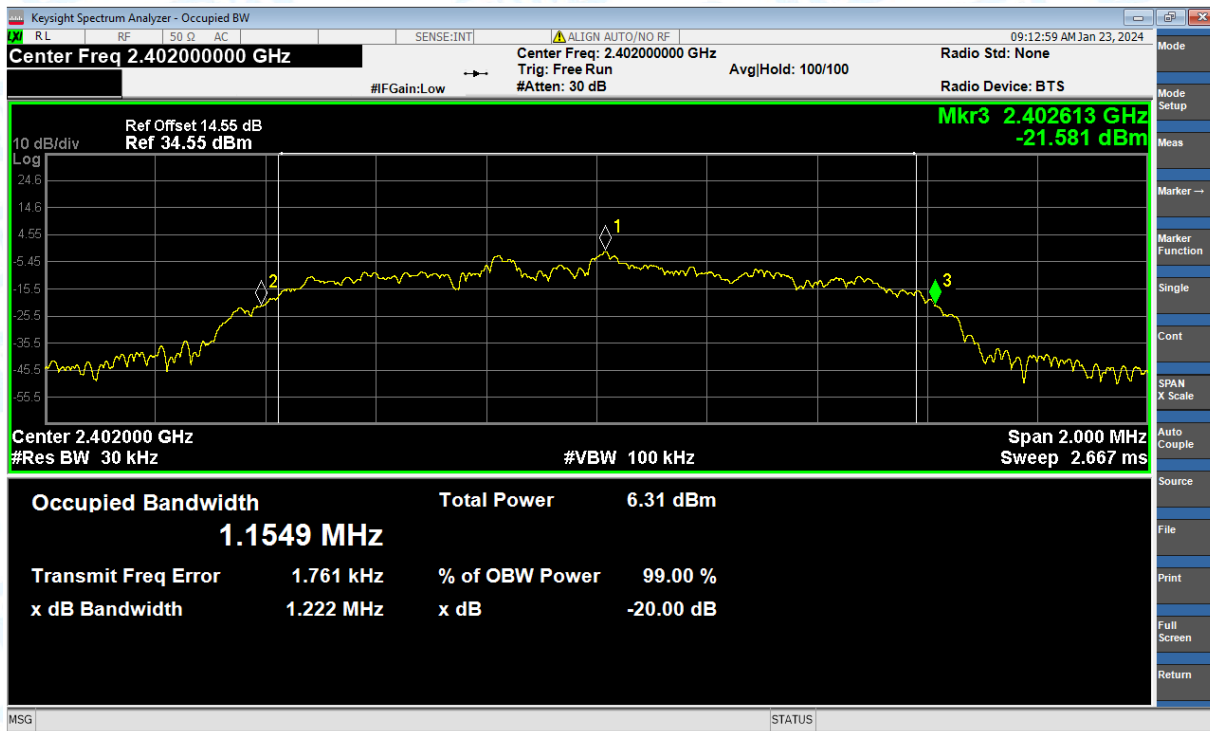
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



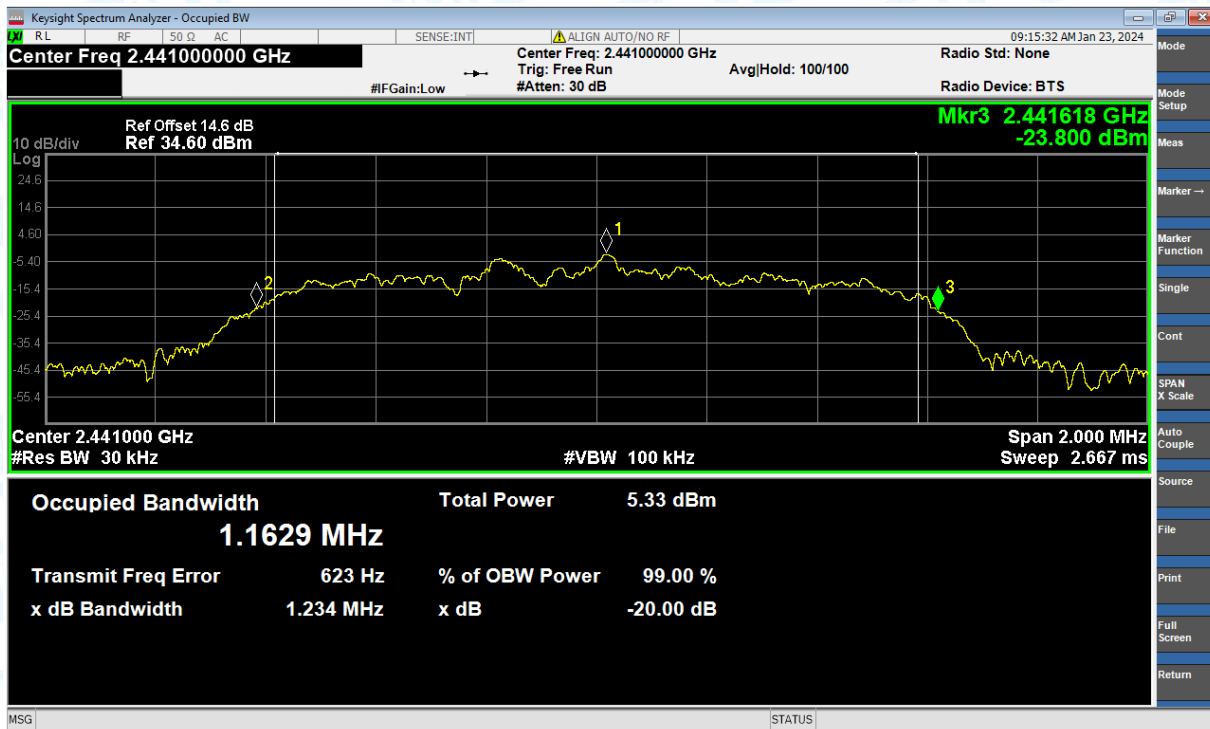
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

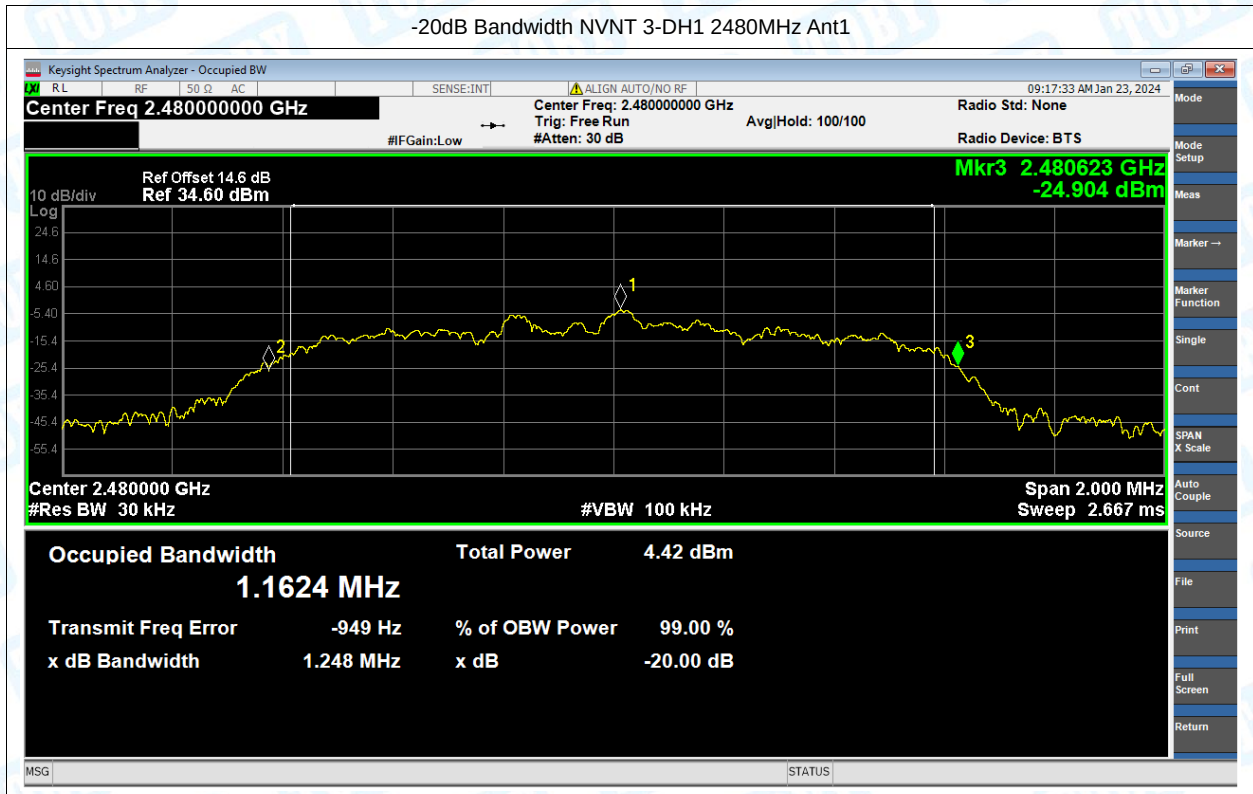


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



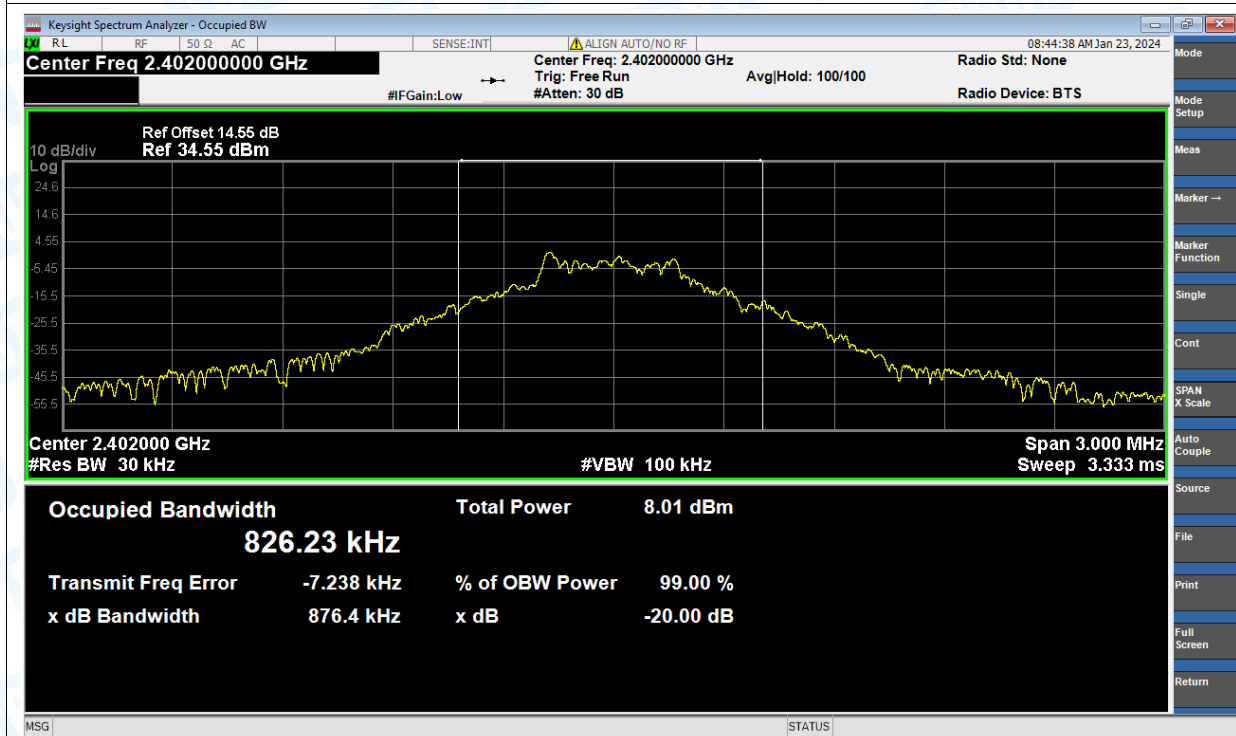


Occupied Channel Bandwidth

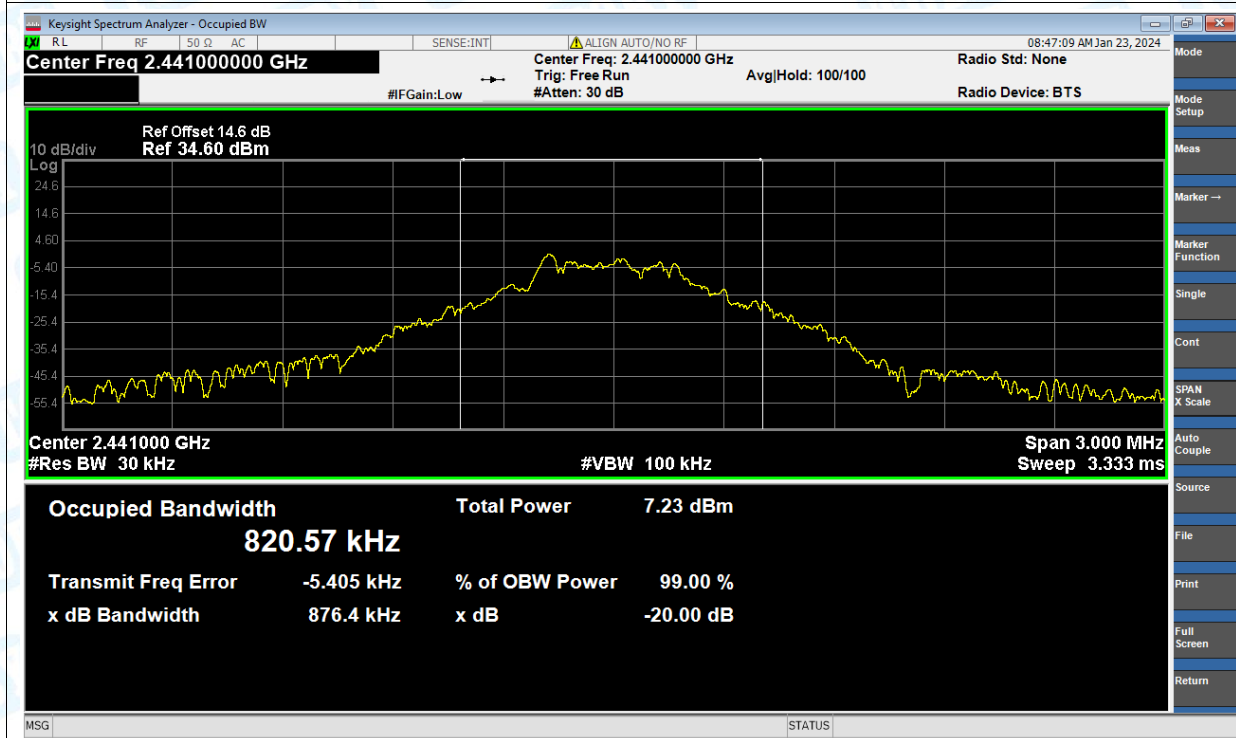
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.826
NVNT	1-DH1	2441	Ant1	0.821
NVNT	1-DH1	2480	Ant1	0.826
NVNT	2-DH1	2402	Ant1	1.165
NVNT	2-DH1	2441	Ant1	1.18
NVNT	2-DH1	2480	Ant1	1.164
NVNT	3-DH1	2402	Ant1	1.168
NVNT	3-DH1	2441	Ant1	1.16
NVNT	3-DH1	2480	Ant1	1.163

Test Graphs

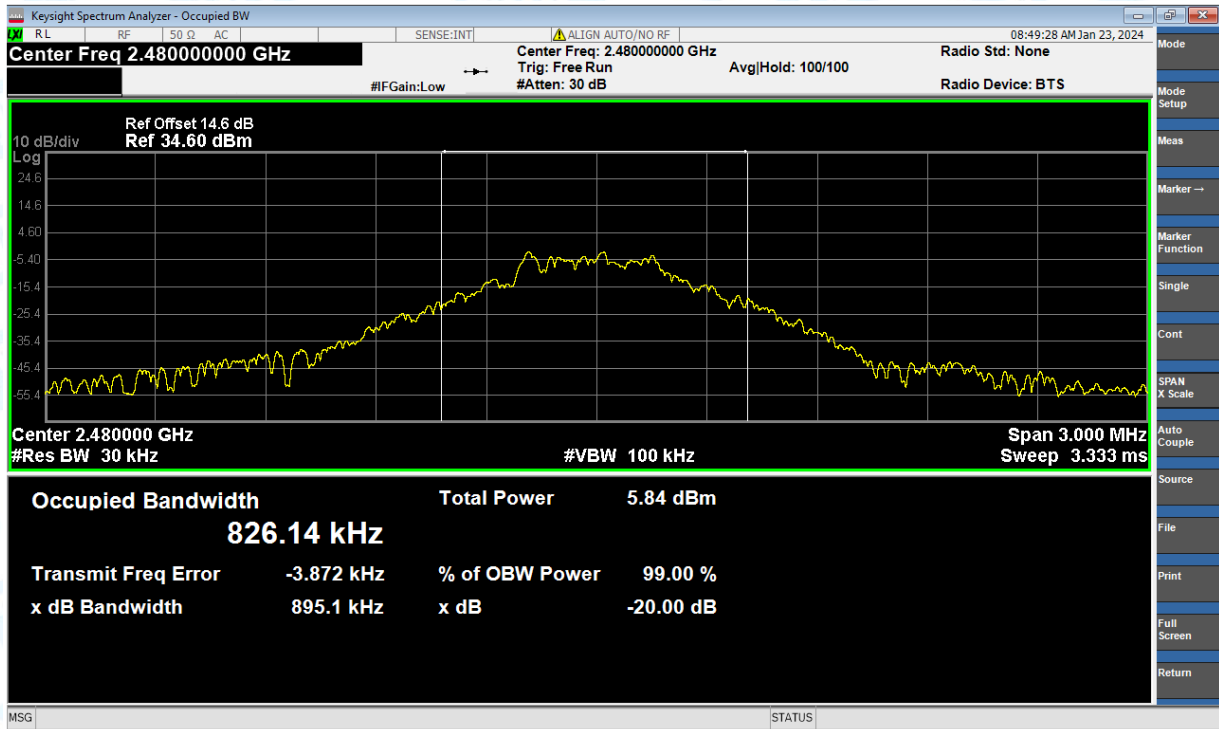
OBW NVNT 1-DH1 2402MHz Ant1



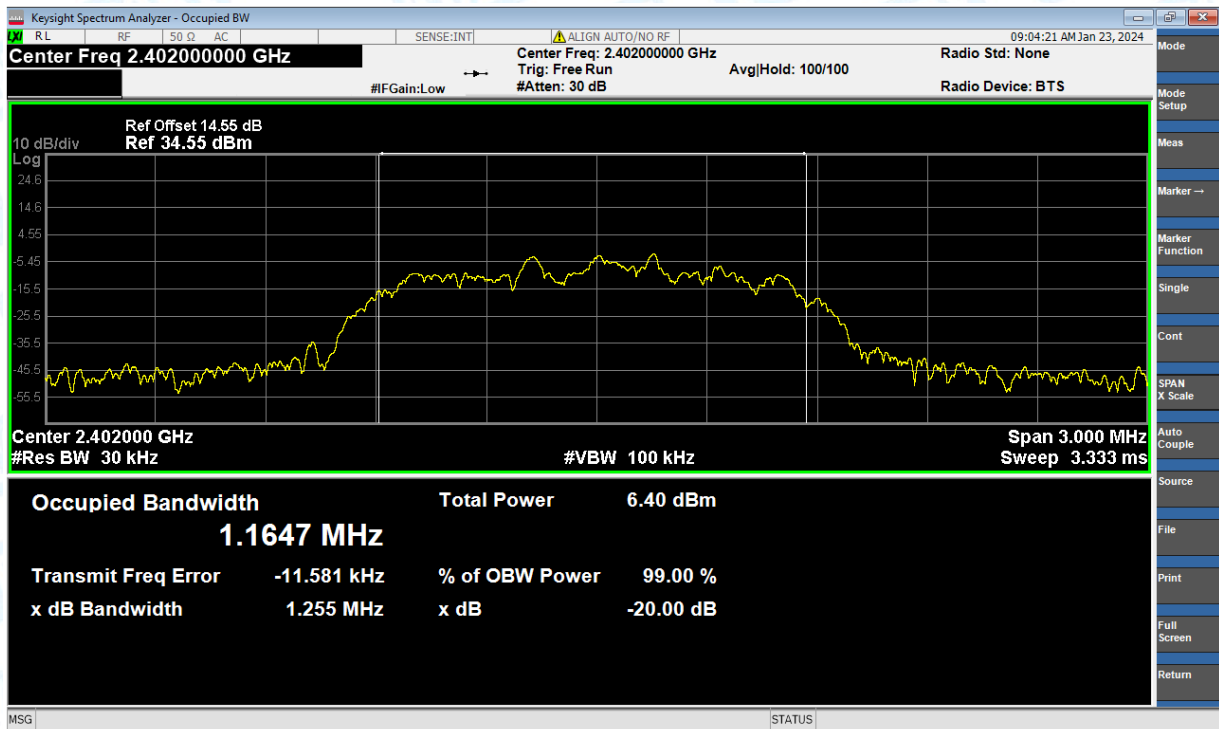
OBW NVNT 1-DH1 2441MHz Ant1



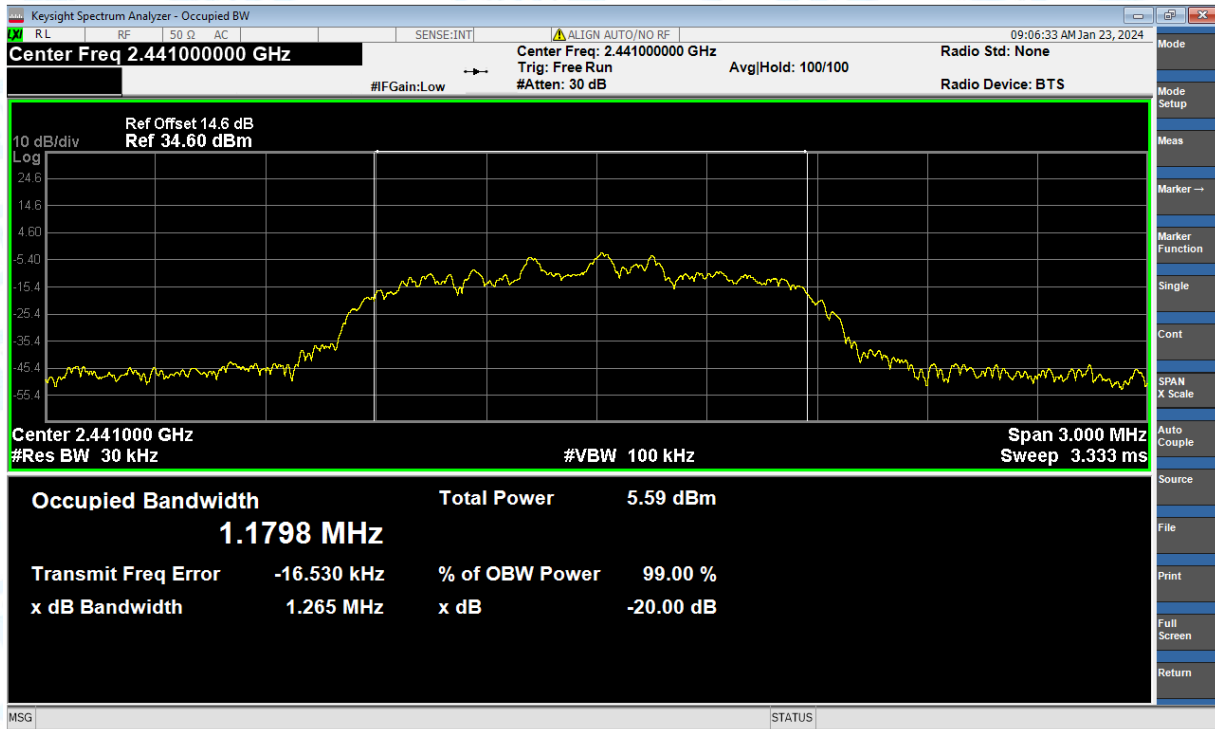
OBW NVNT 1-DH1 2480MHz Ant1



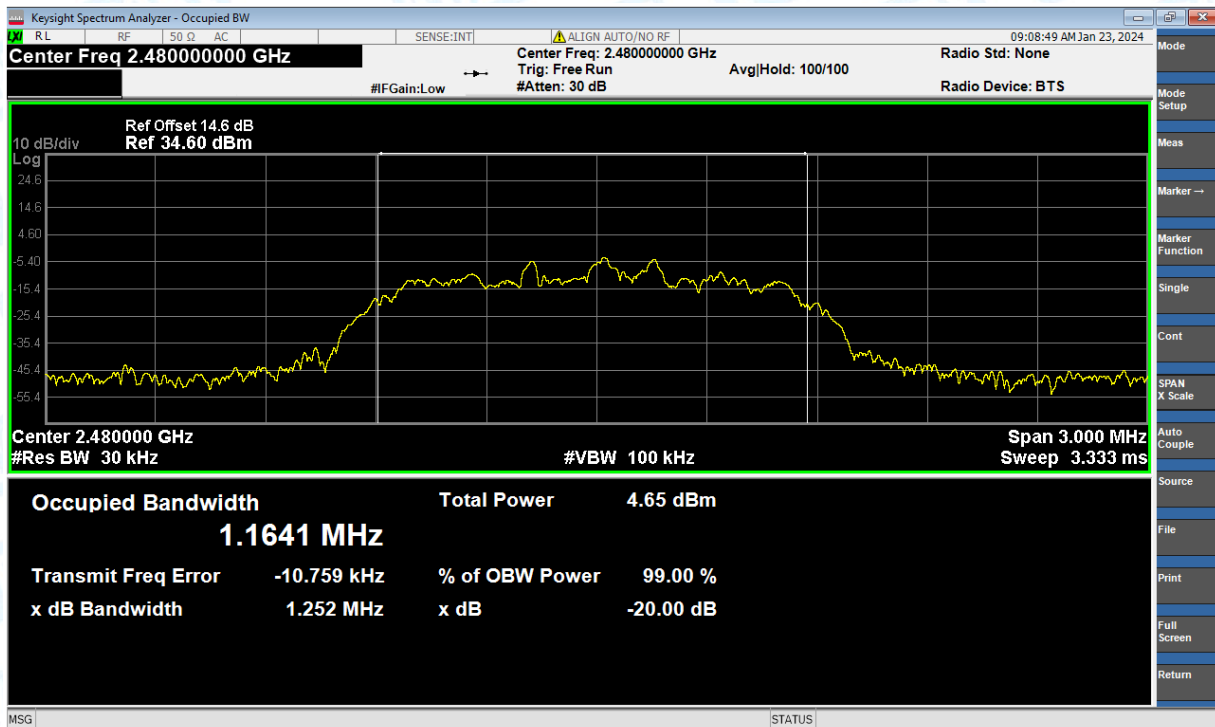
OBW NVNT 2-DH1 2402MHz Ant1



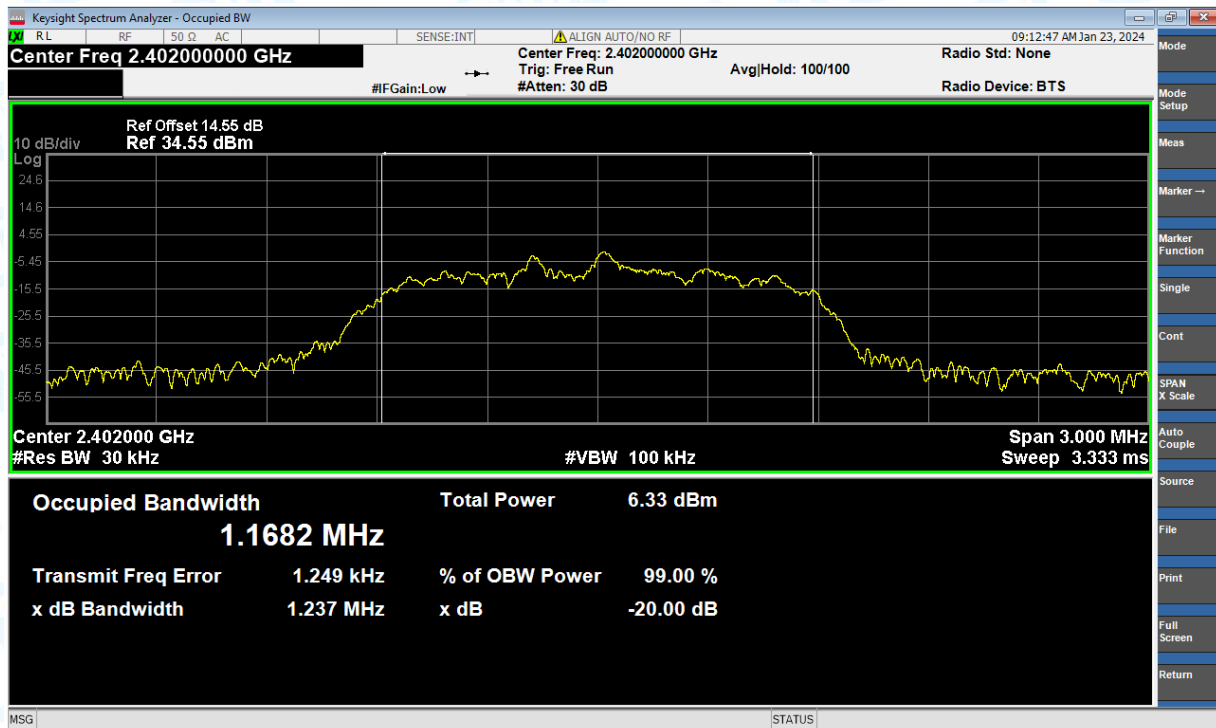
OBW NVNT 2-DH1 2441MHz Ant1



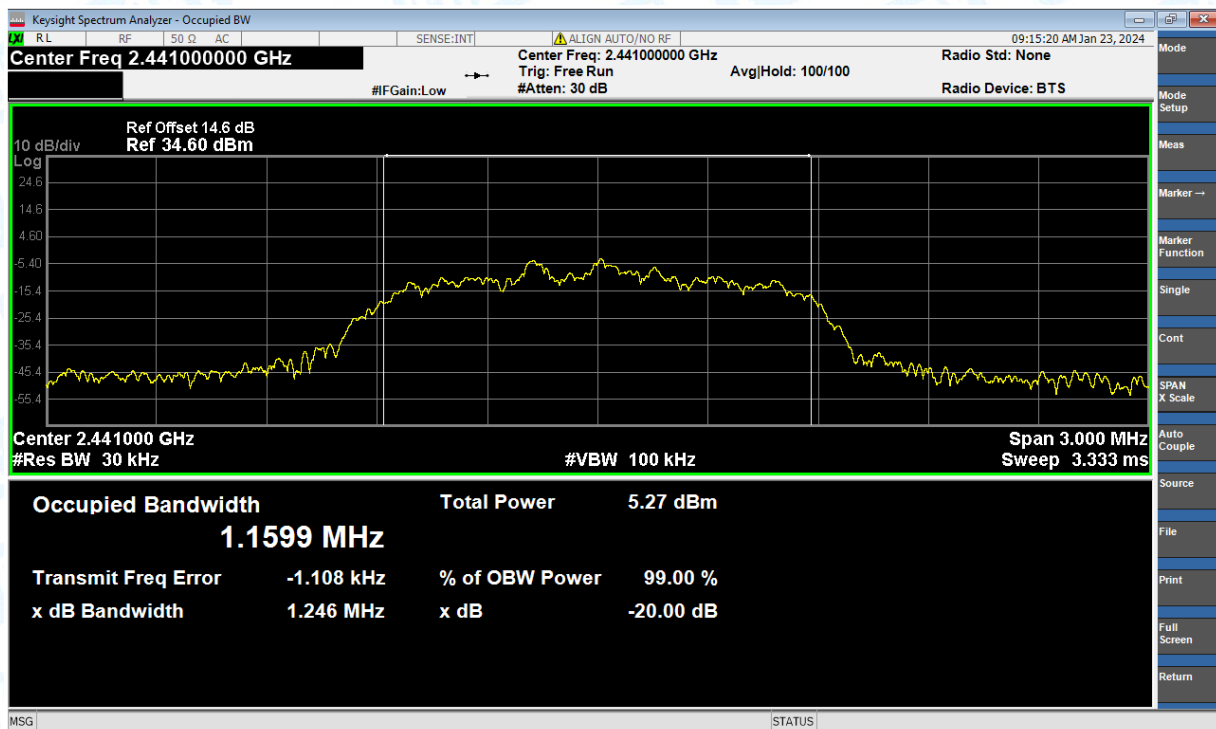
OBW NVNT 2-DH1 2480MHz Ant1

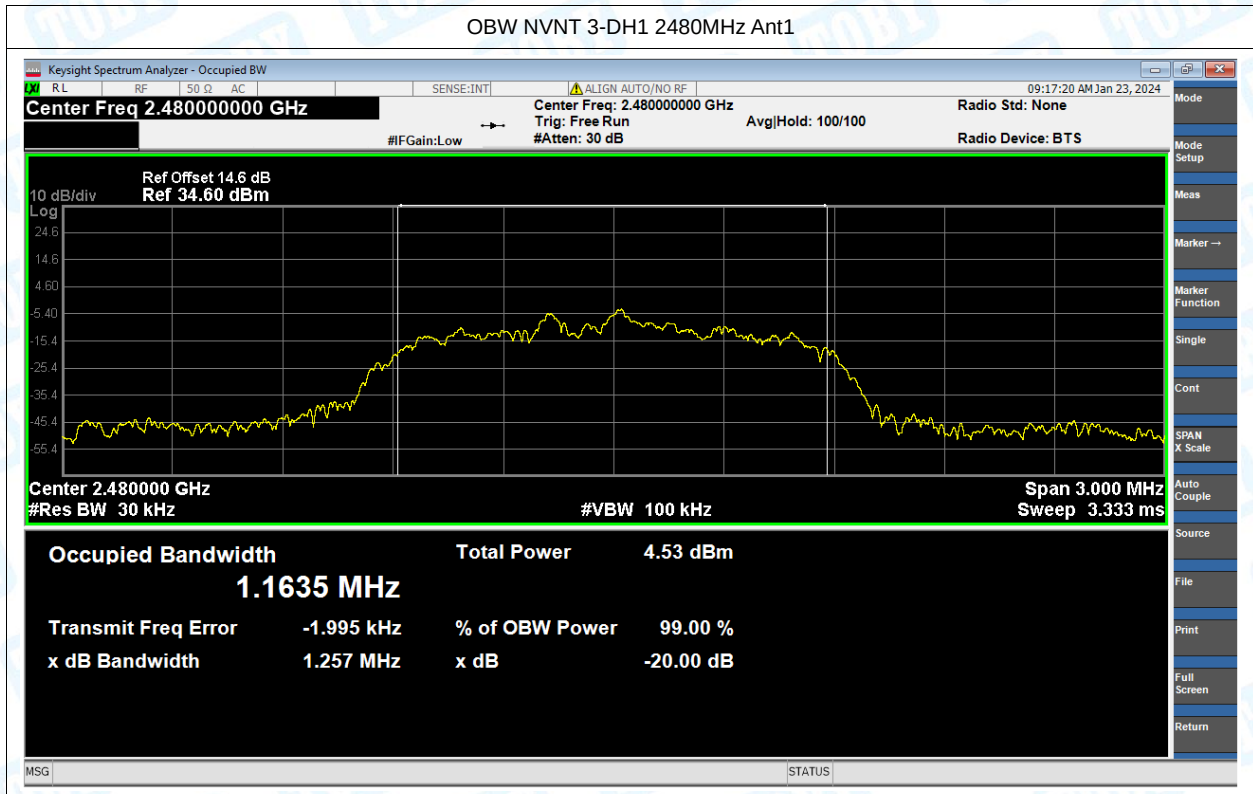


OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1



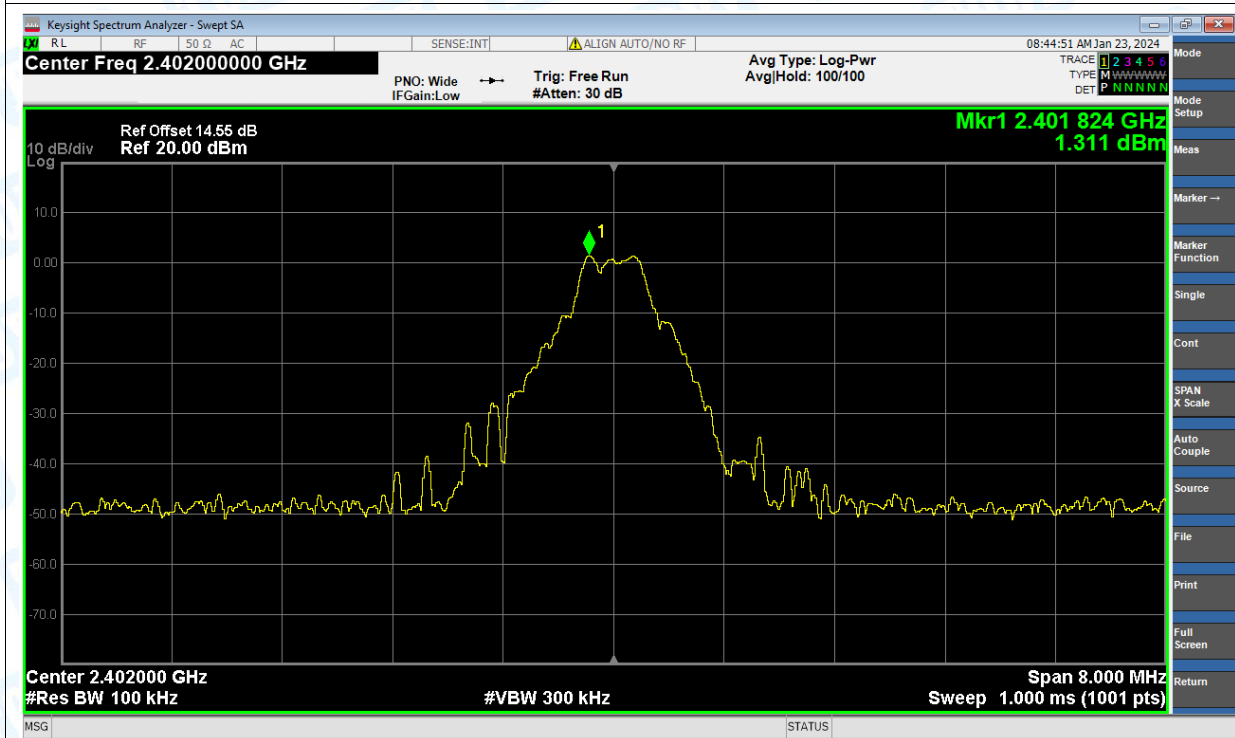


Band Edge

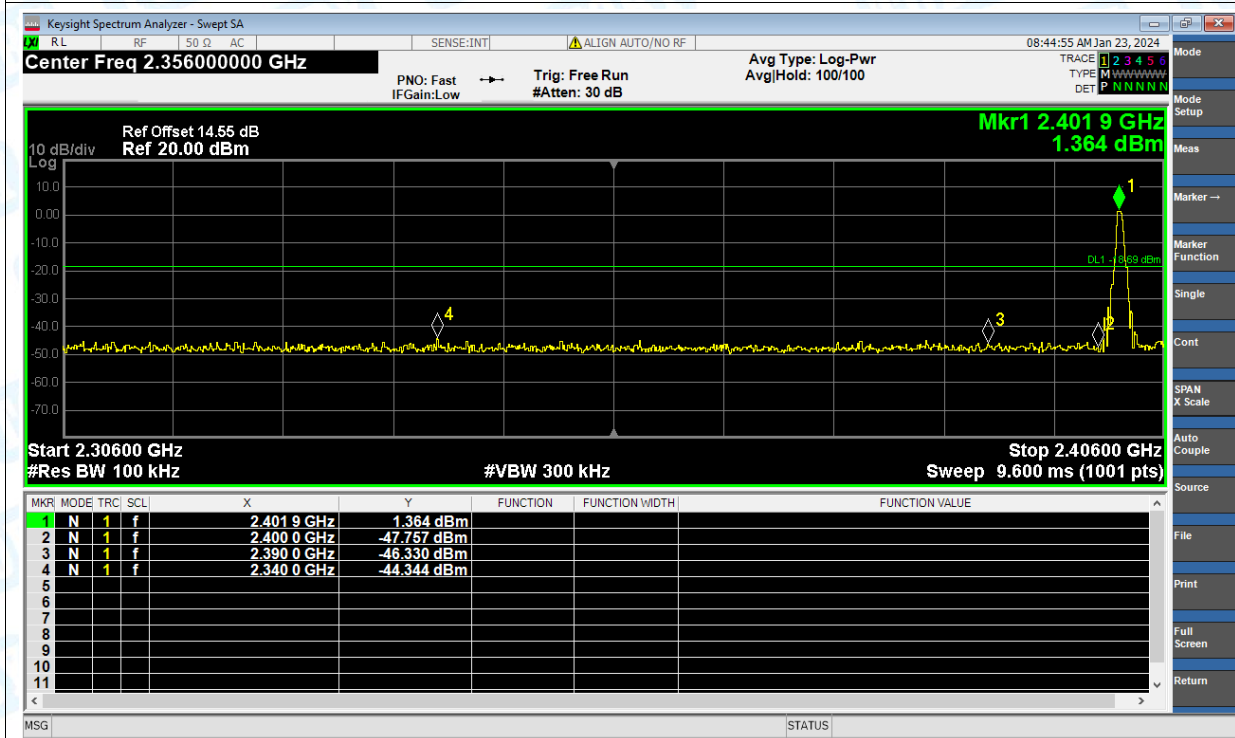
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-45.65	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-43.91	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-44.8	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-42.71	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-45.23	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-42.69	-20	Pass

Test Graphs

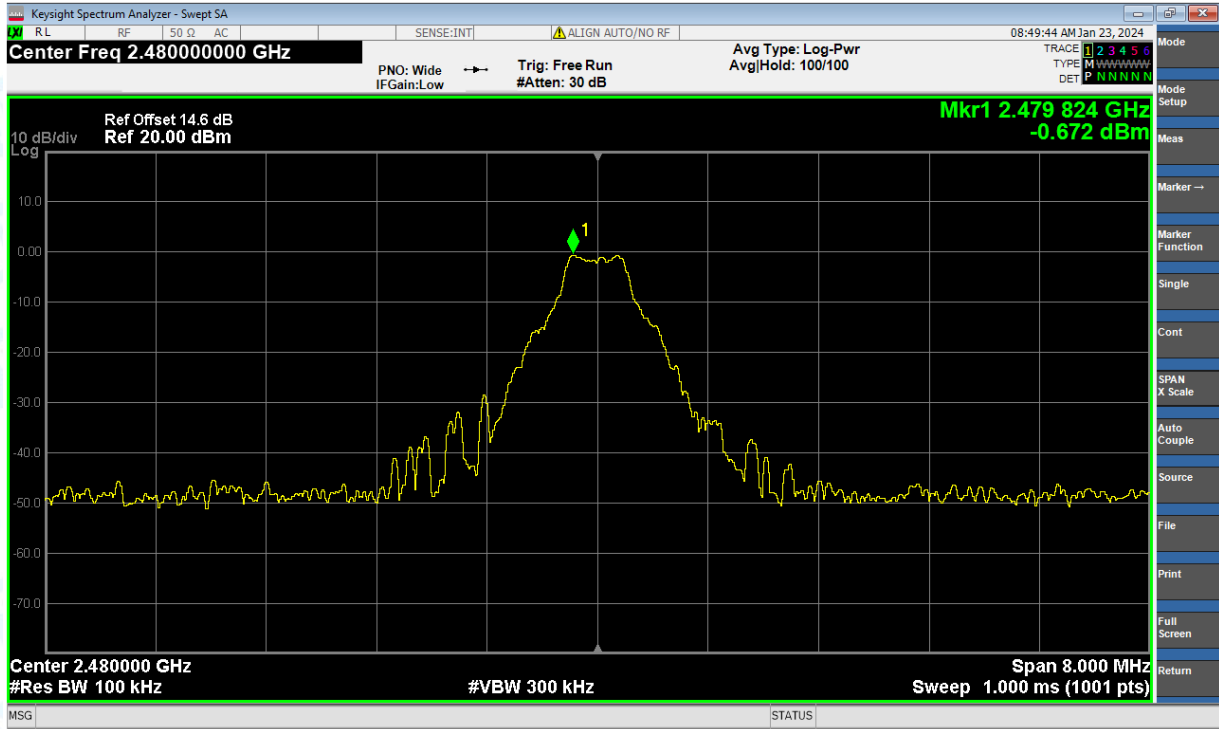
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



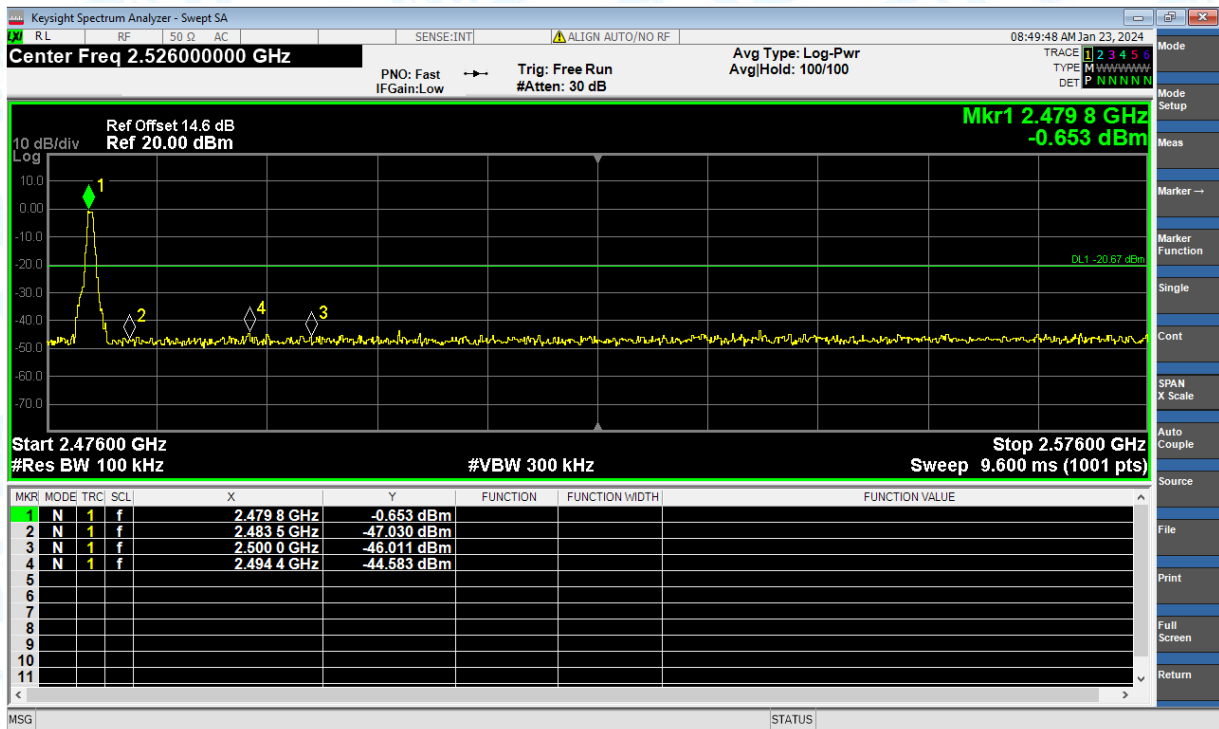
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



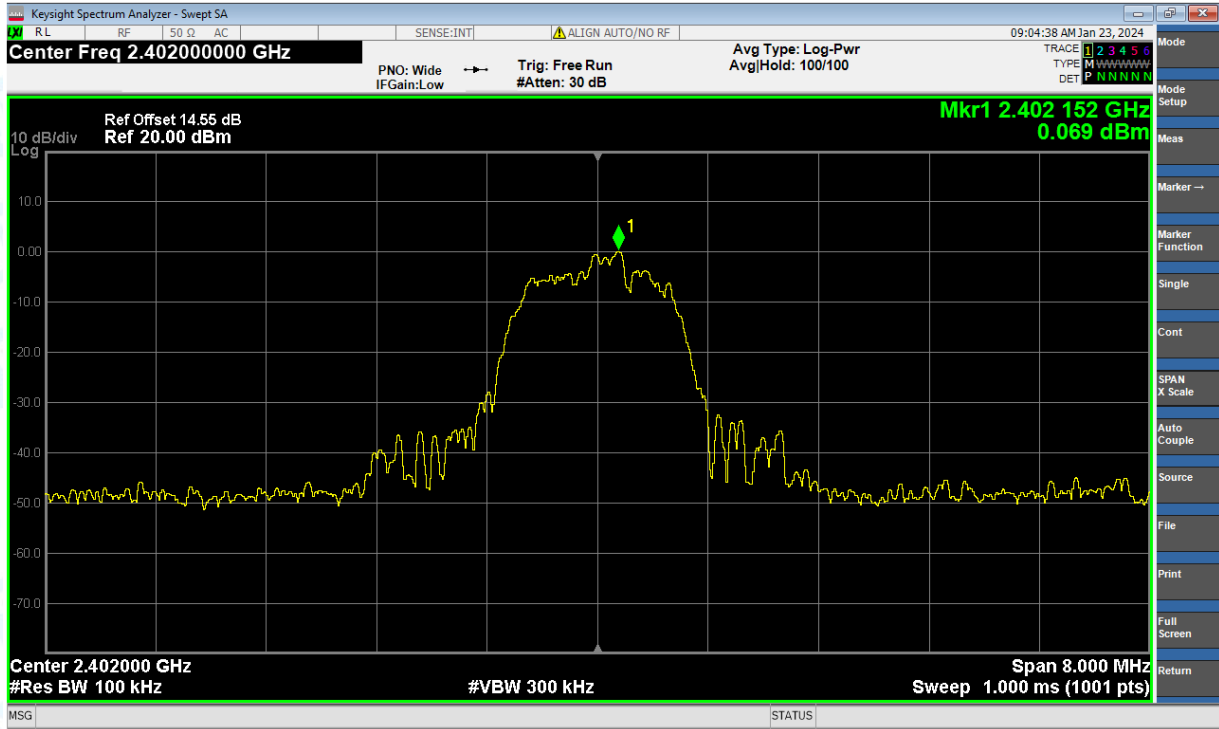
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



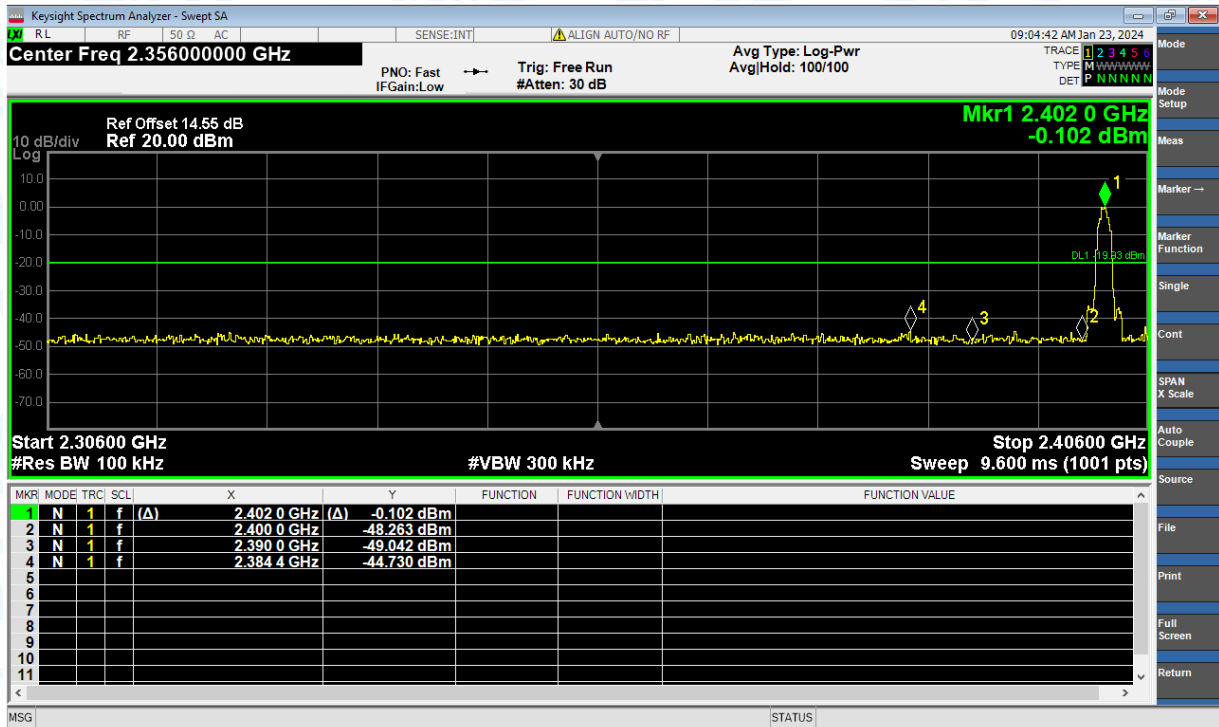
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



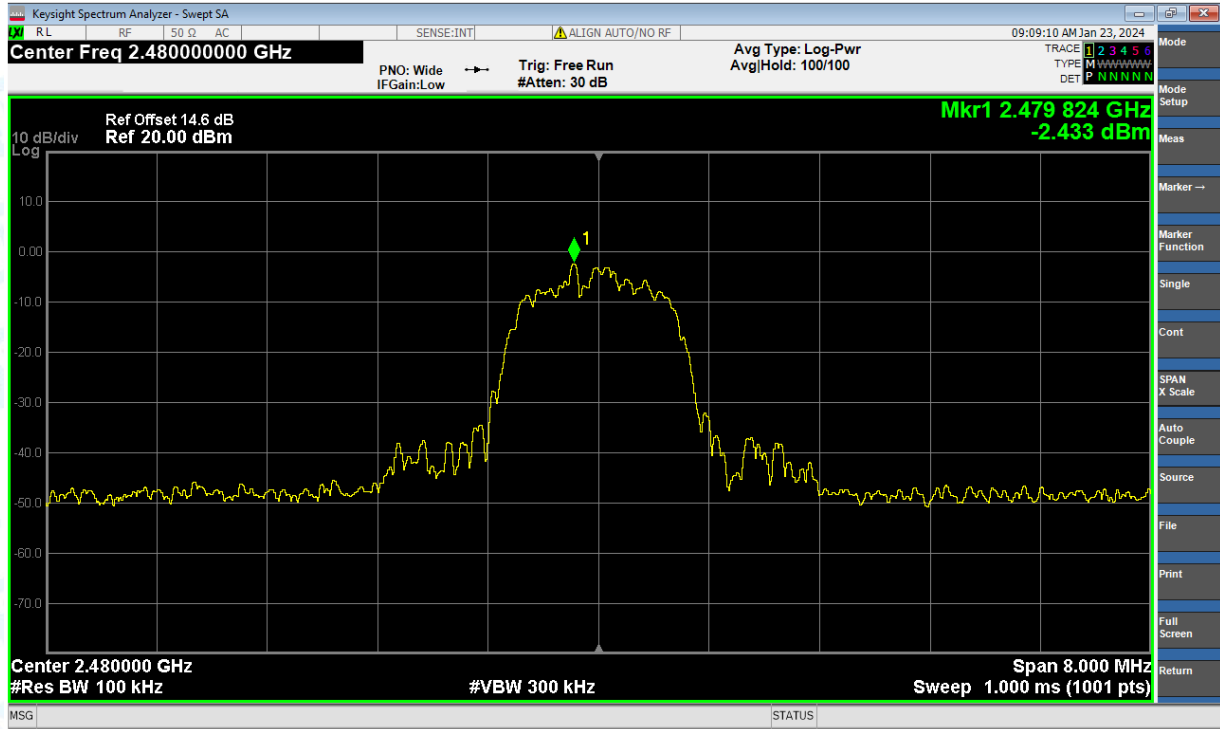
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



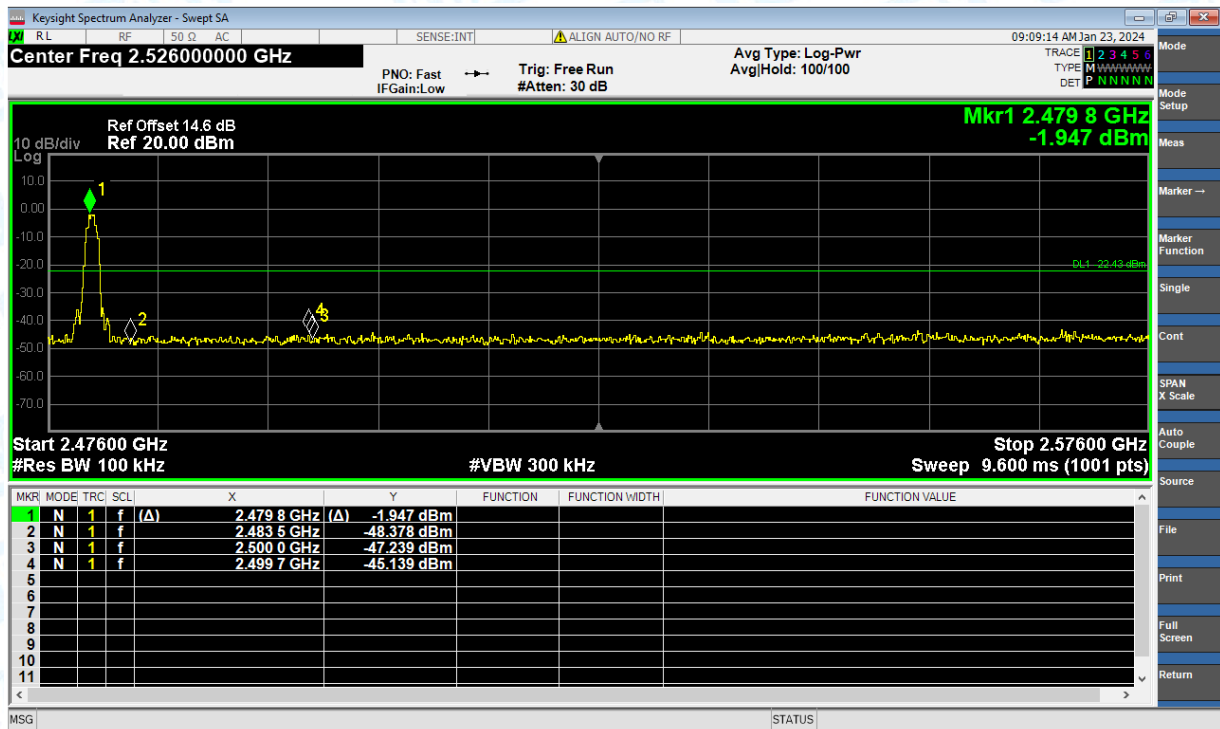
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



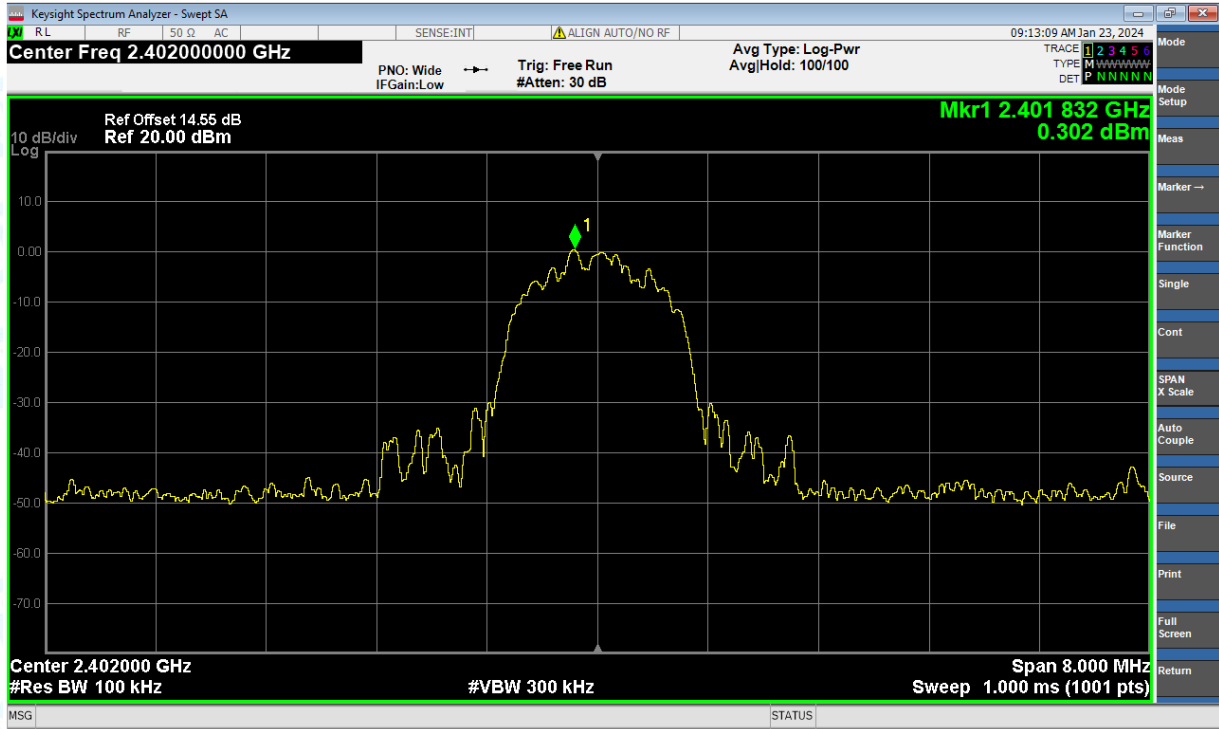
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Ref



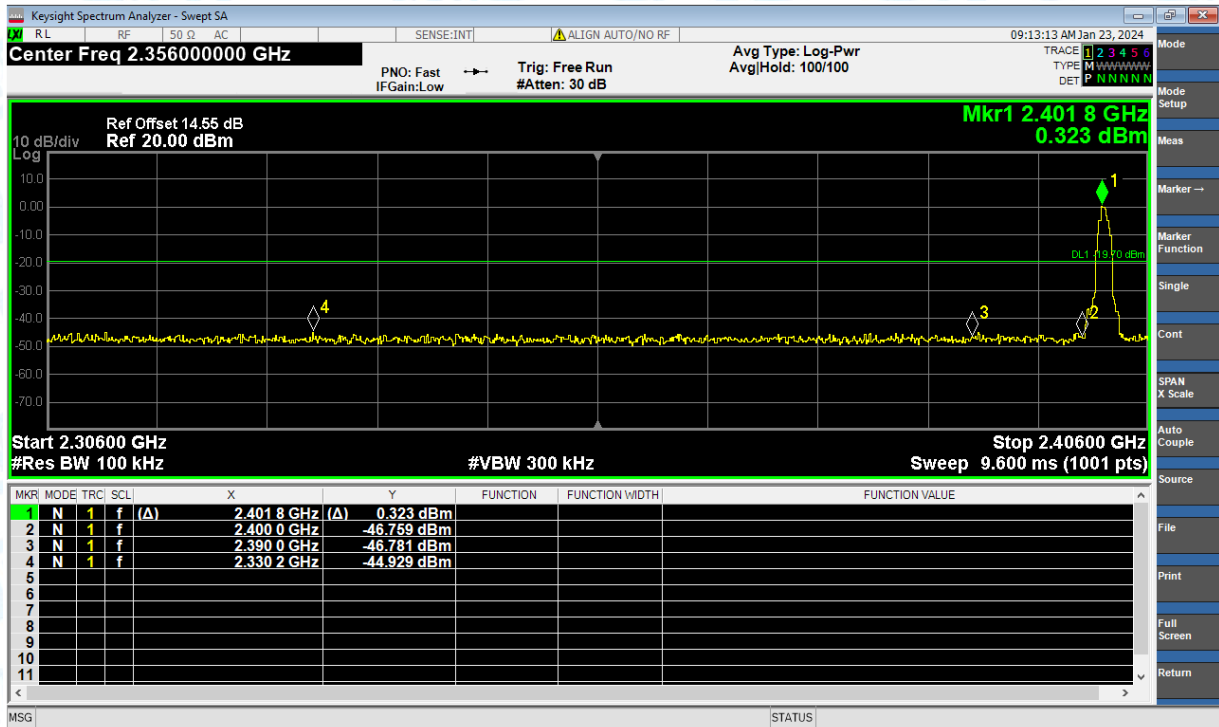
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission



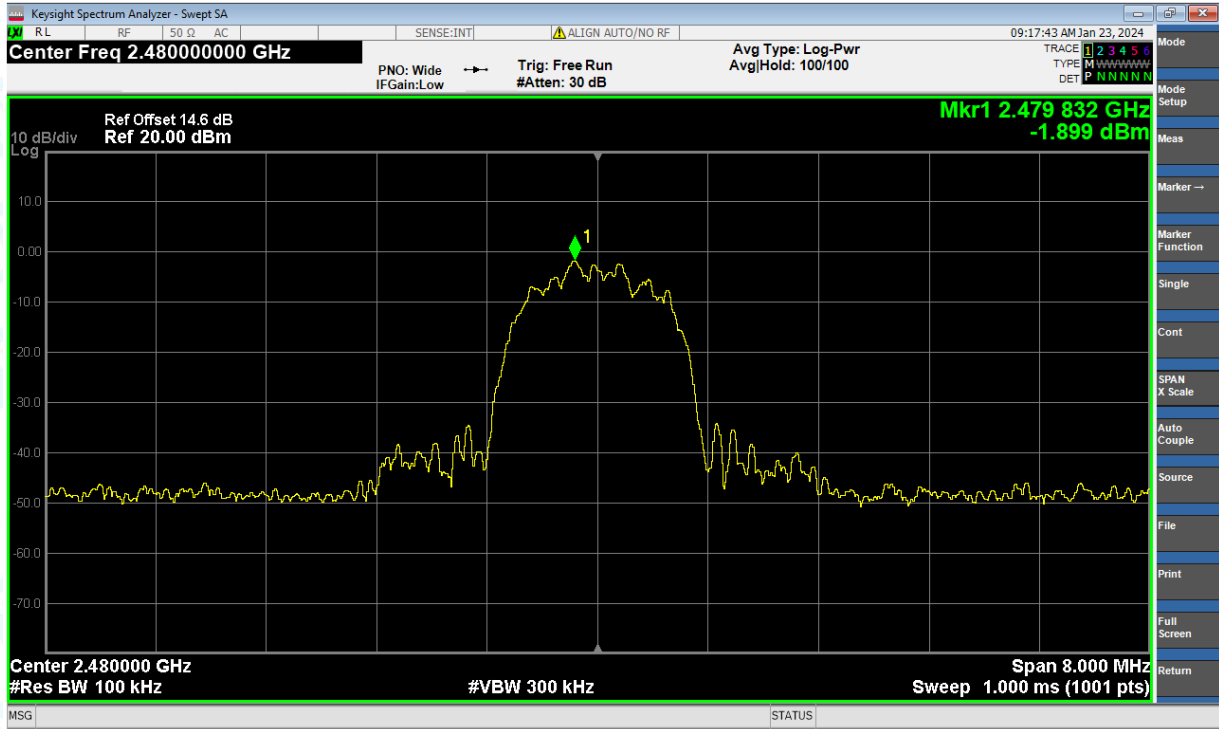
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Ref



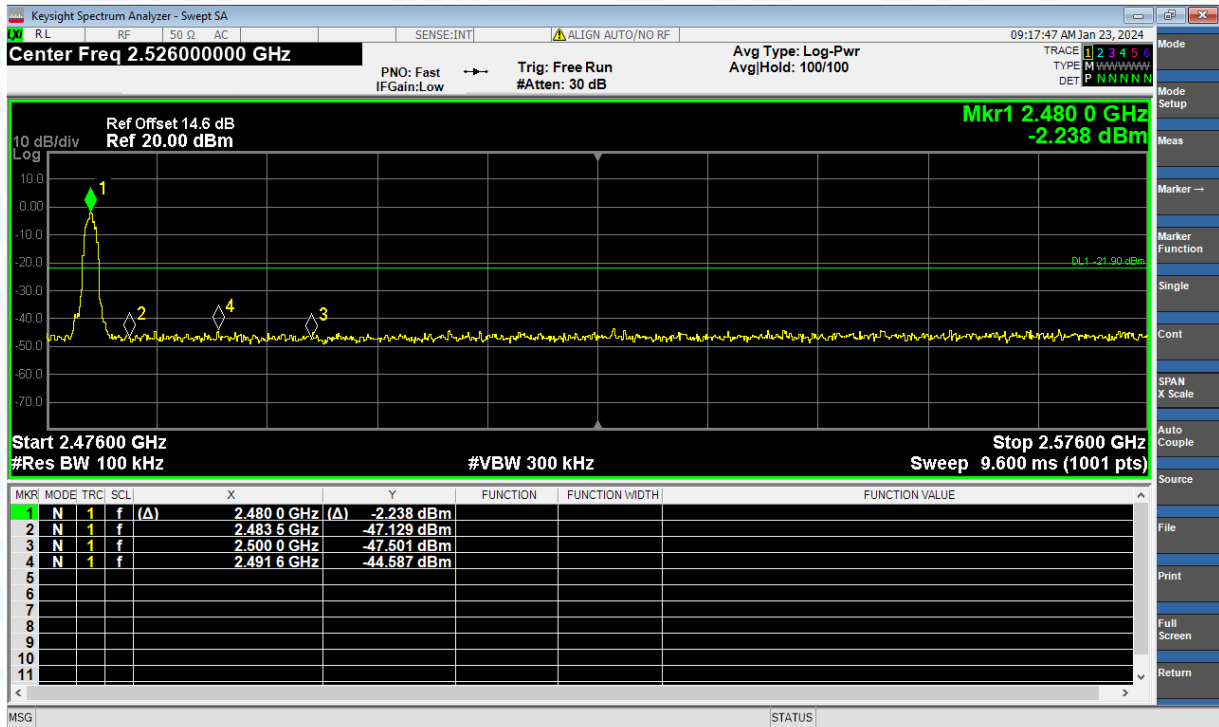
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission



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



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

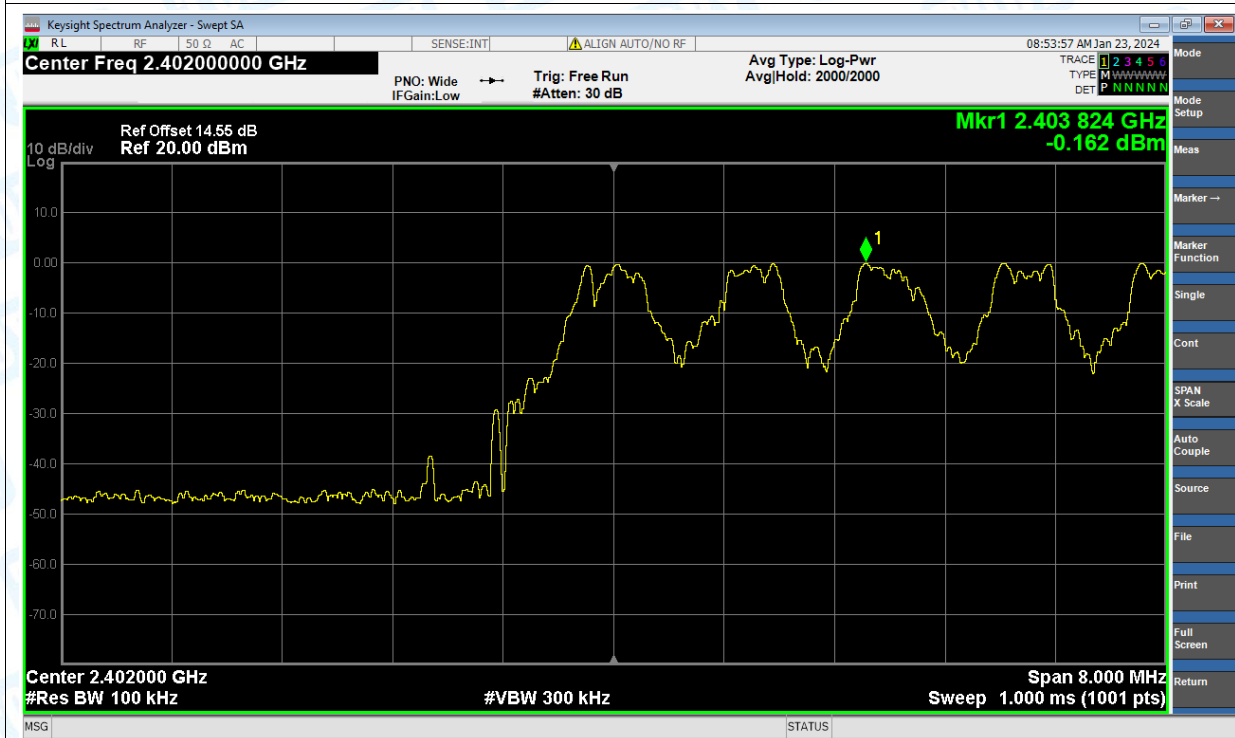


Band Edge(Hopping)

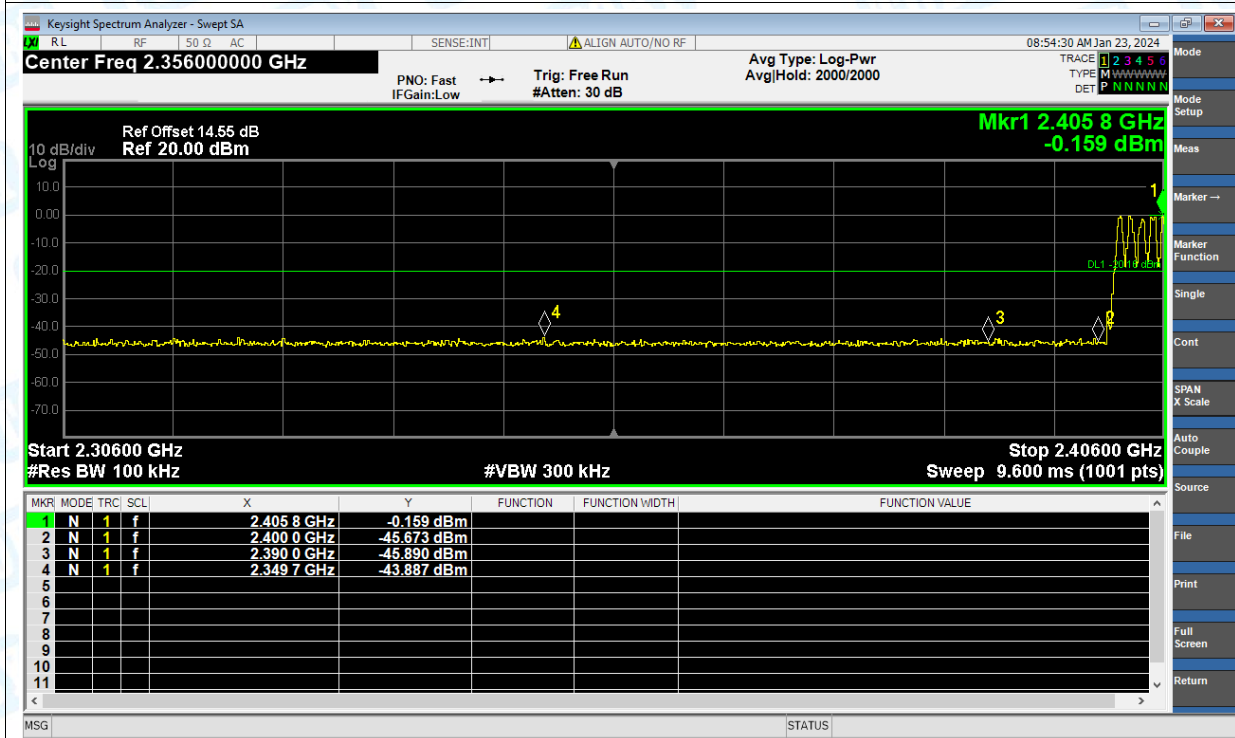
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-43.73	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-42.08	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-43.41	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-42.36	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-43.22	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-41.77	-20	Pass

Test Graphs

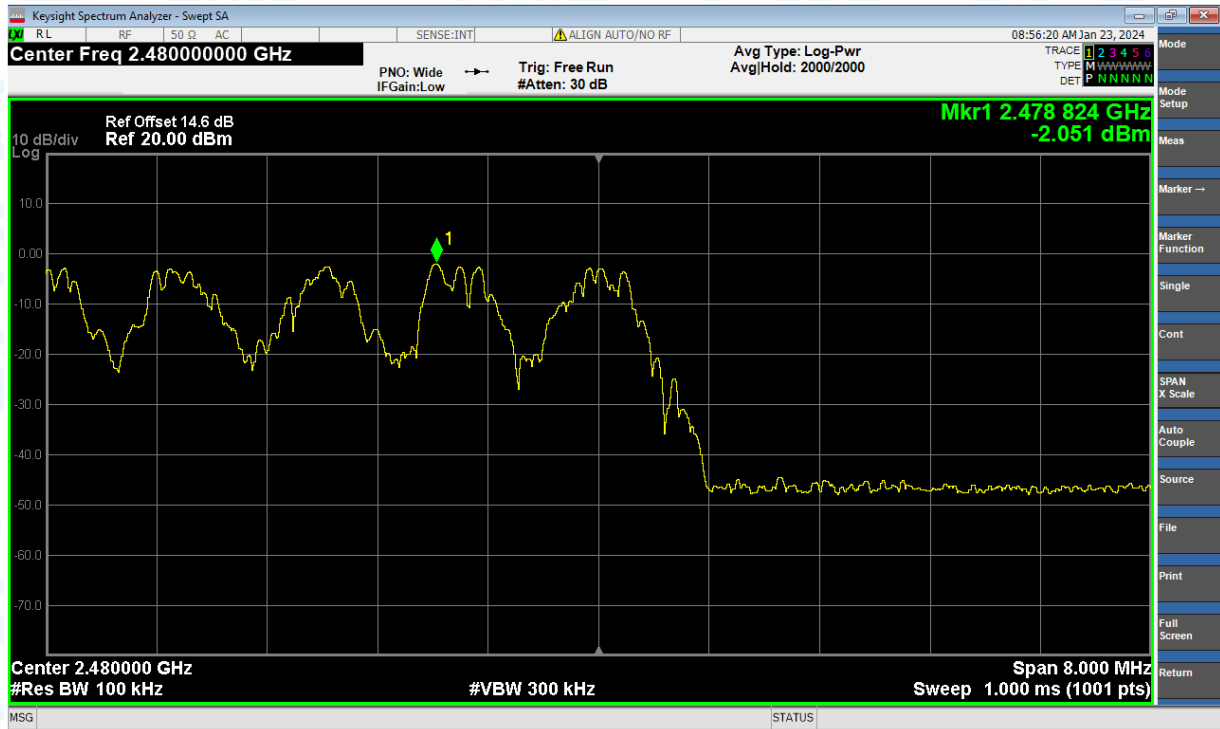
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Ref



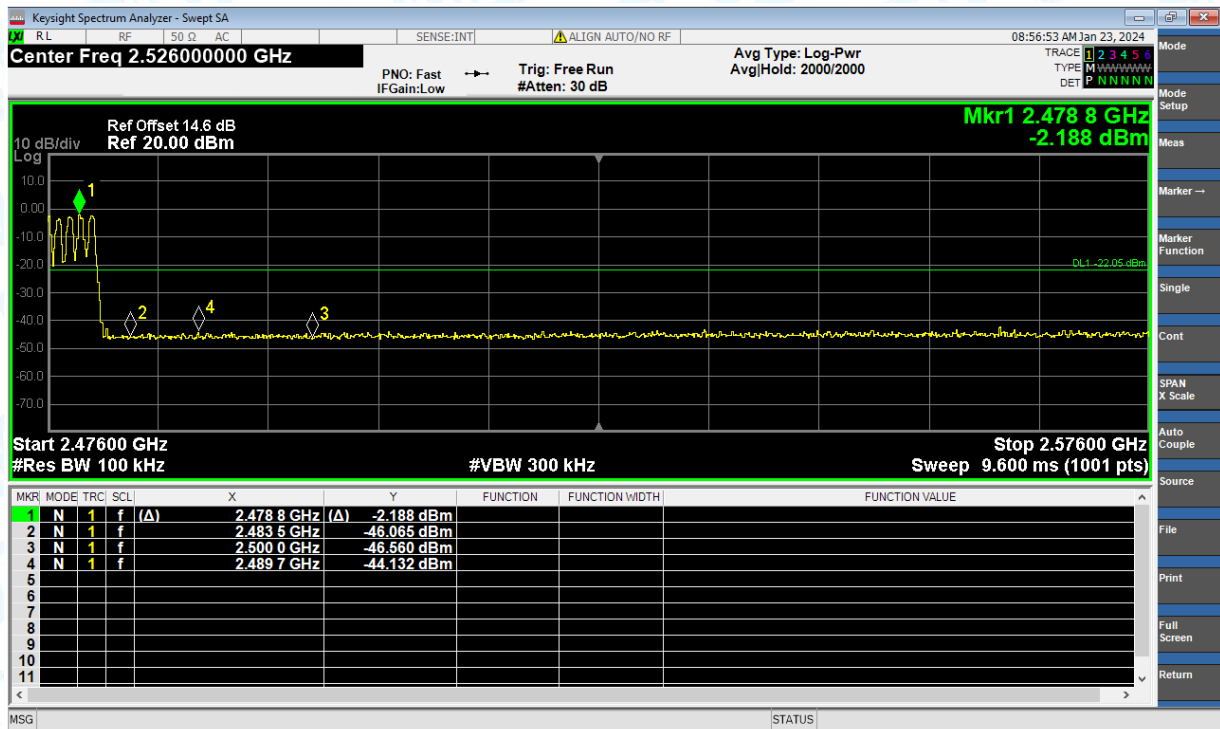
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission



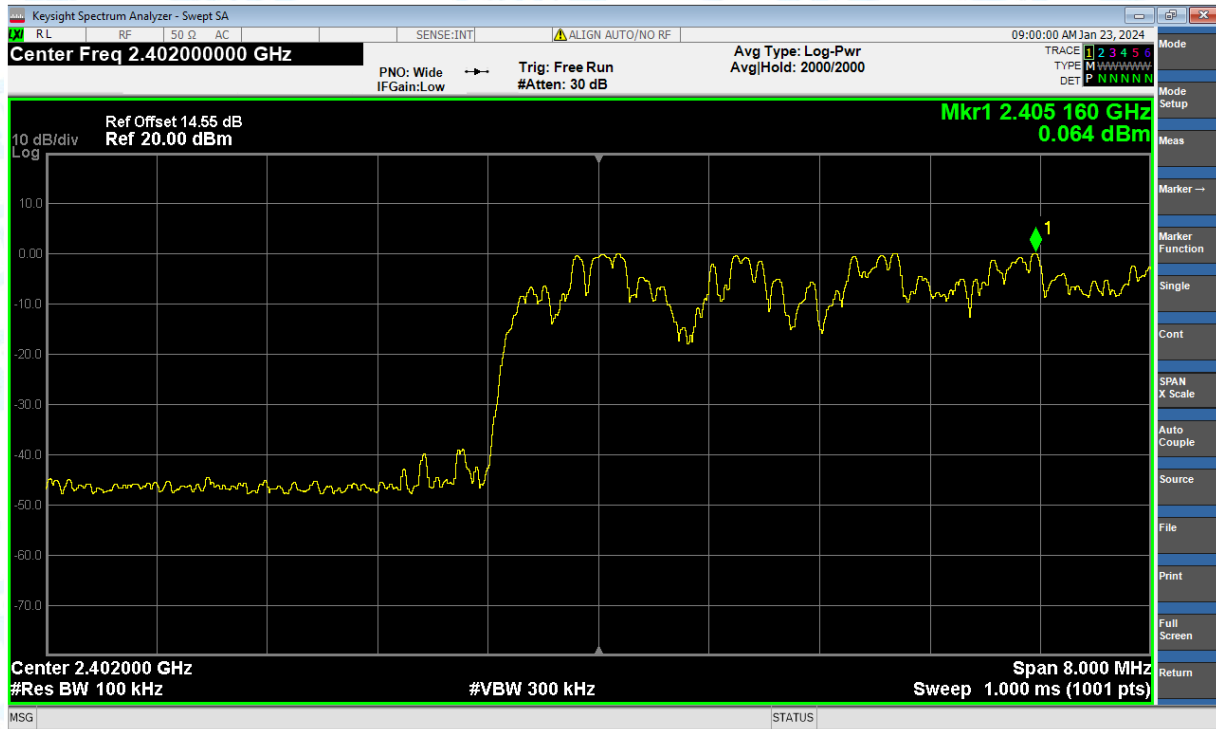
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Ref



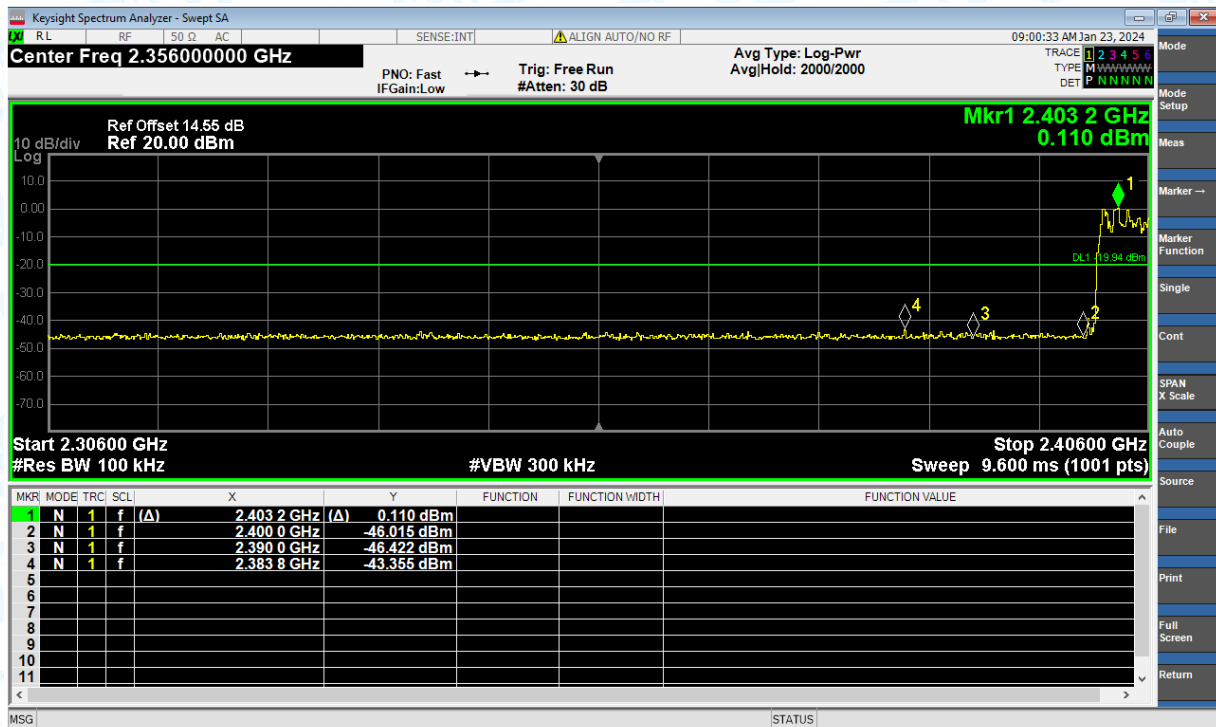
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission



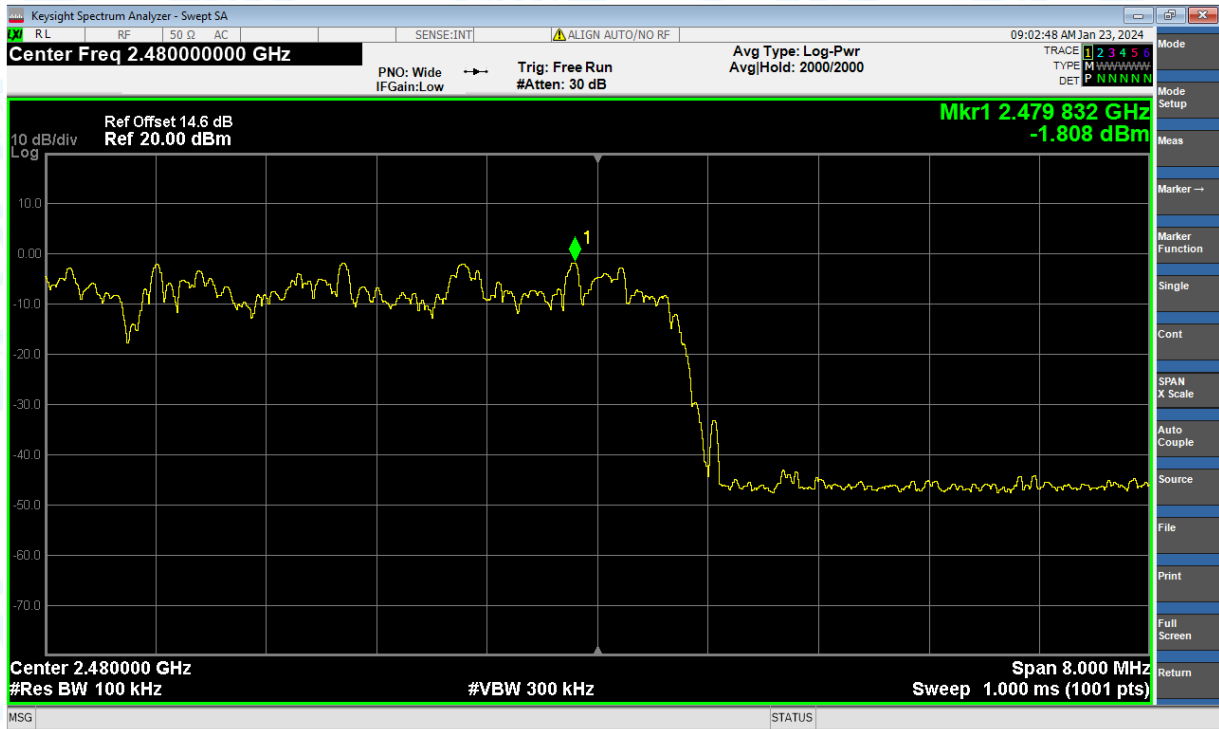
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Ref



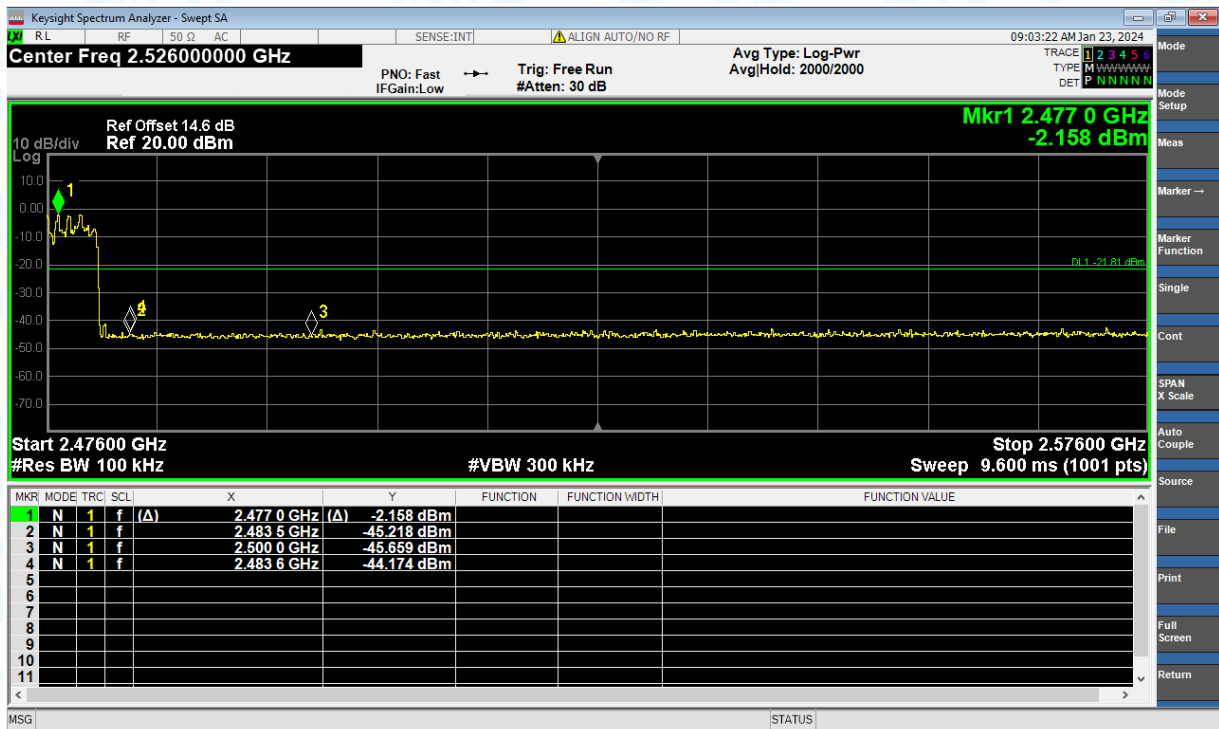
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission



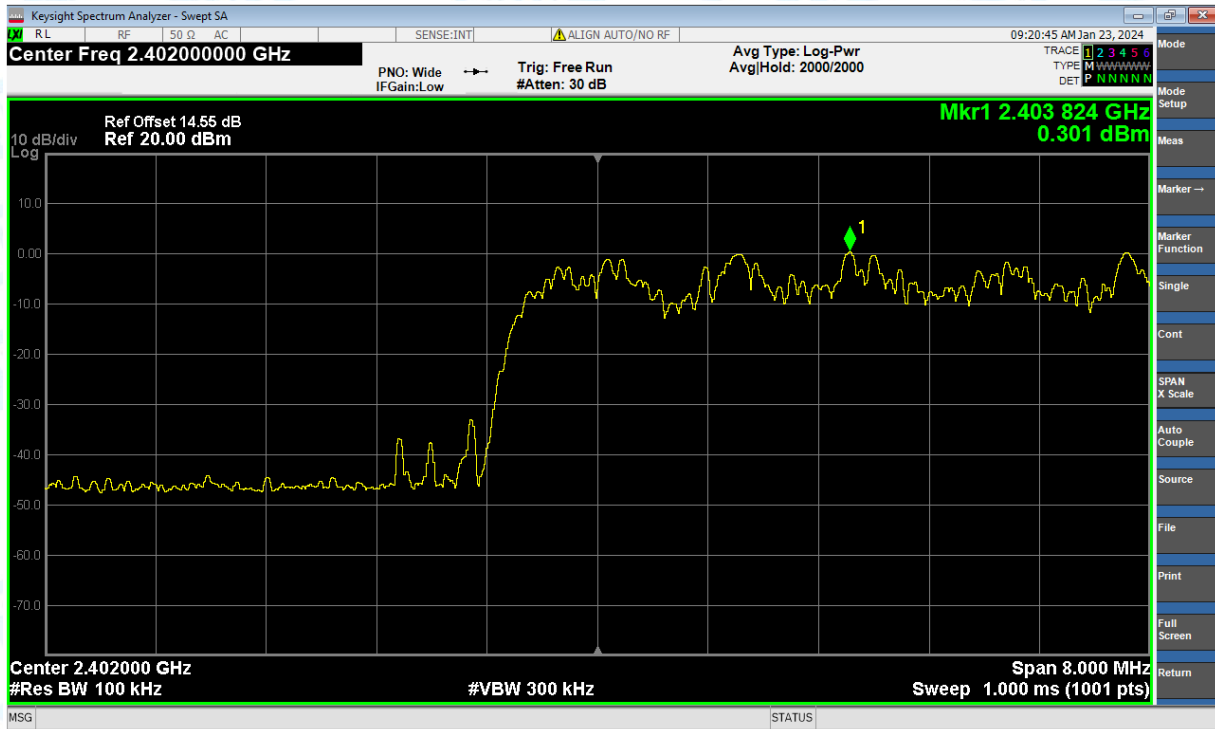
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Ref



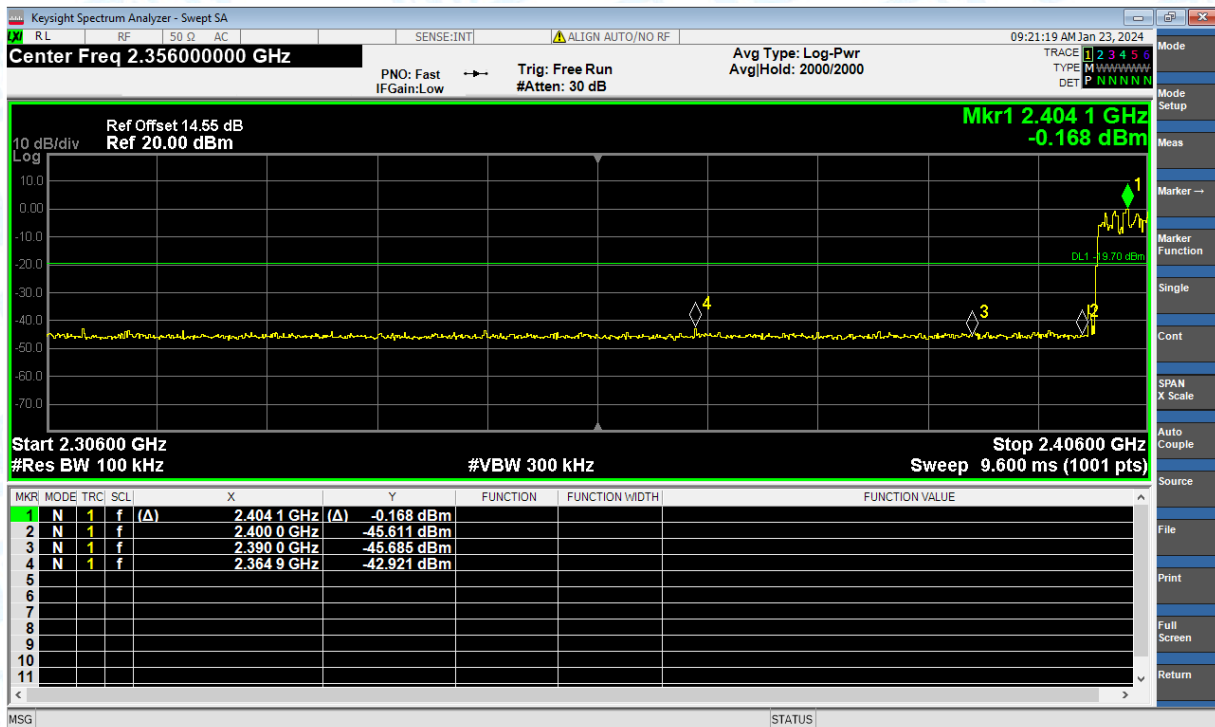
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission



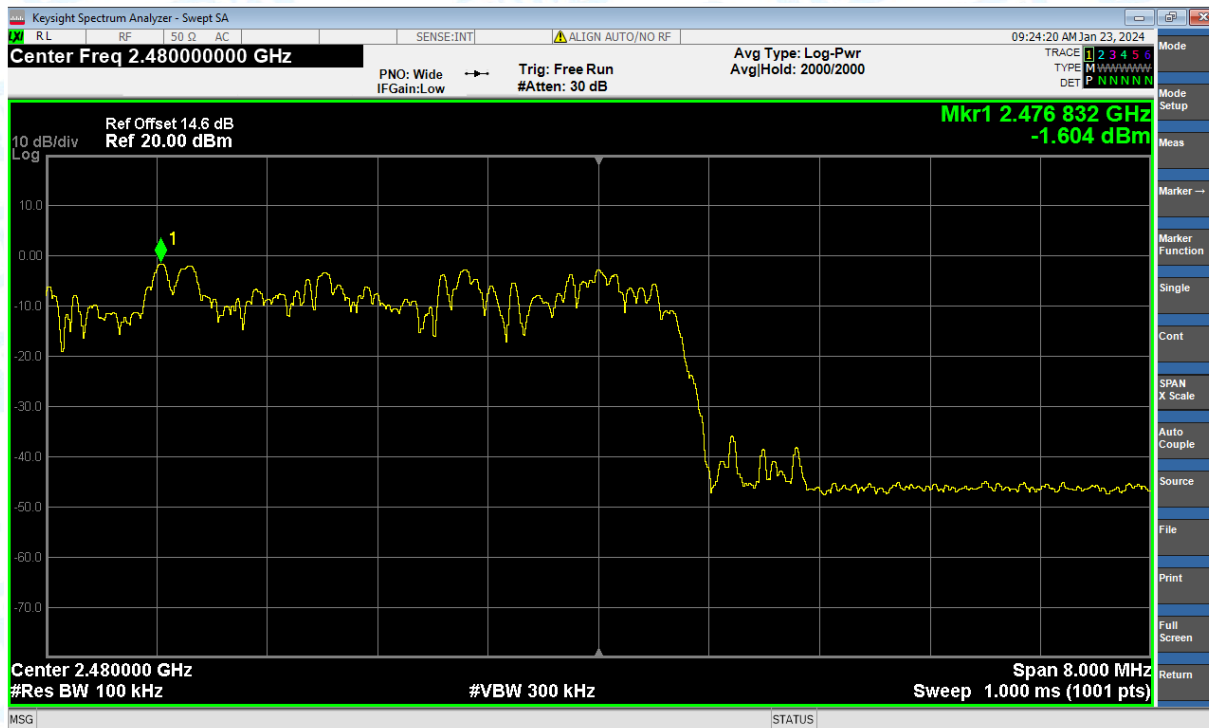
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Ref



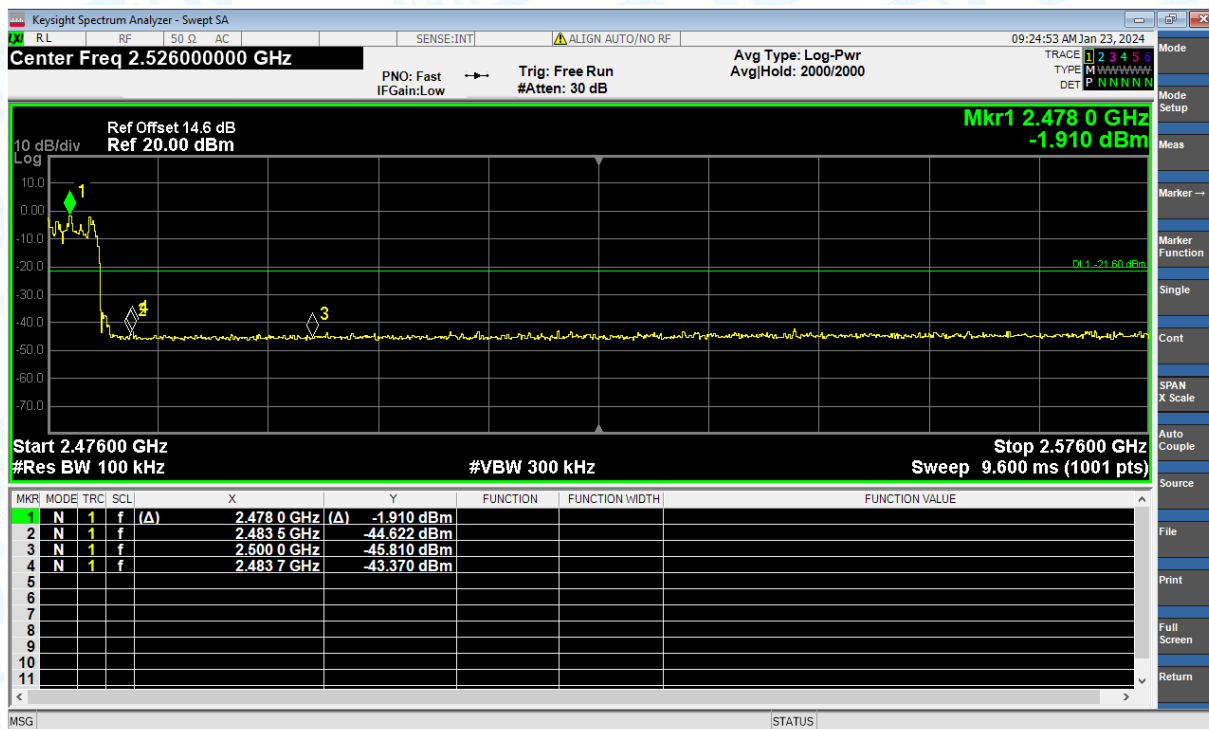
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Emission



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



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



Conducted RF Spurious Emission

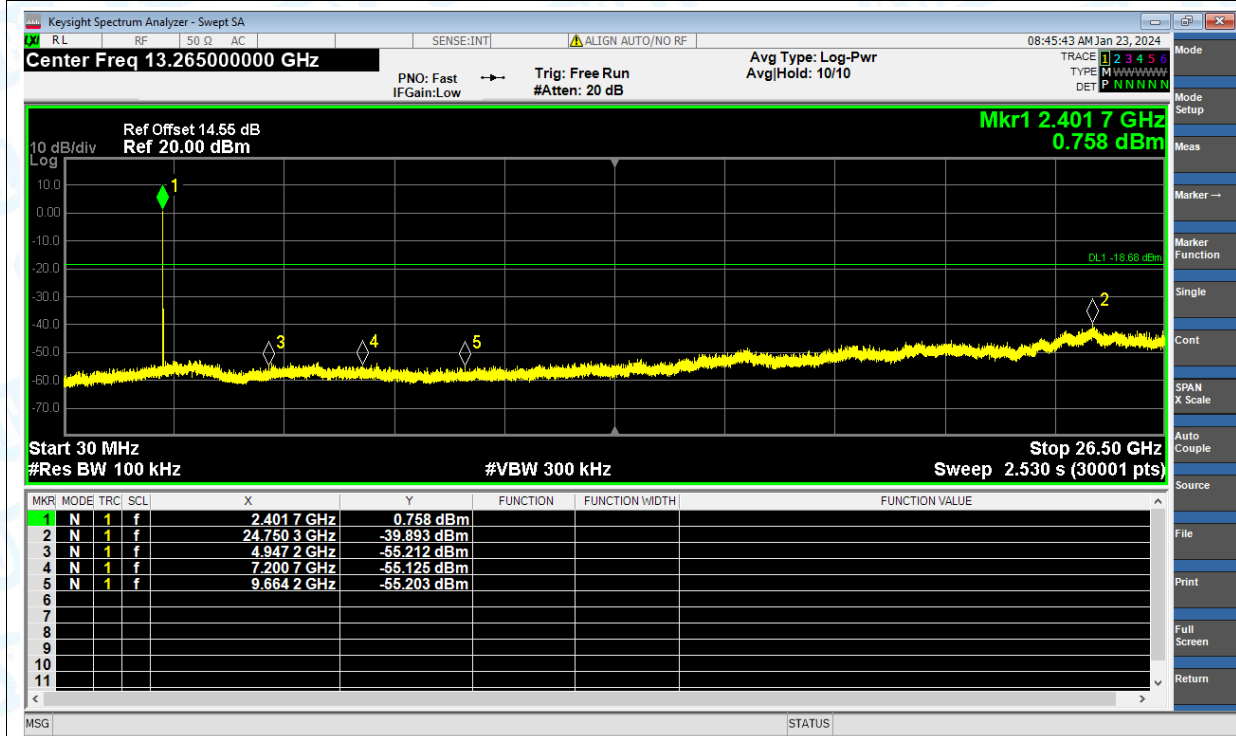
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-41.21	-20	Pass
NVNT	1-DH1	2441	Ant1	-40.49	-20	Pass
NVNT	1-DH1	2480	Ant1	-38.81	-20	Pass
NVNT	2-DH1	2402	Ant1	-39.18	-20	Pass
NVNT	2-DH1	2441	Ant1	-39.7	-20	Pass
NVNT	2-DH1	2480	Ant1	-37.96	-20	Pass
NVNT	3-DH1	2402	Ant1	-40.32	-20	Pass
NVNT	3-DH1	2441	Ant1	-39.39	-20	Pass
NVNT	3-DH1	2480	Ant1	-38.41	-20	Pass

Test Graphs

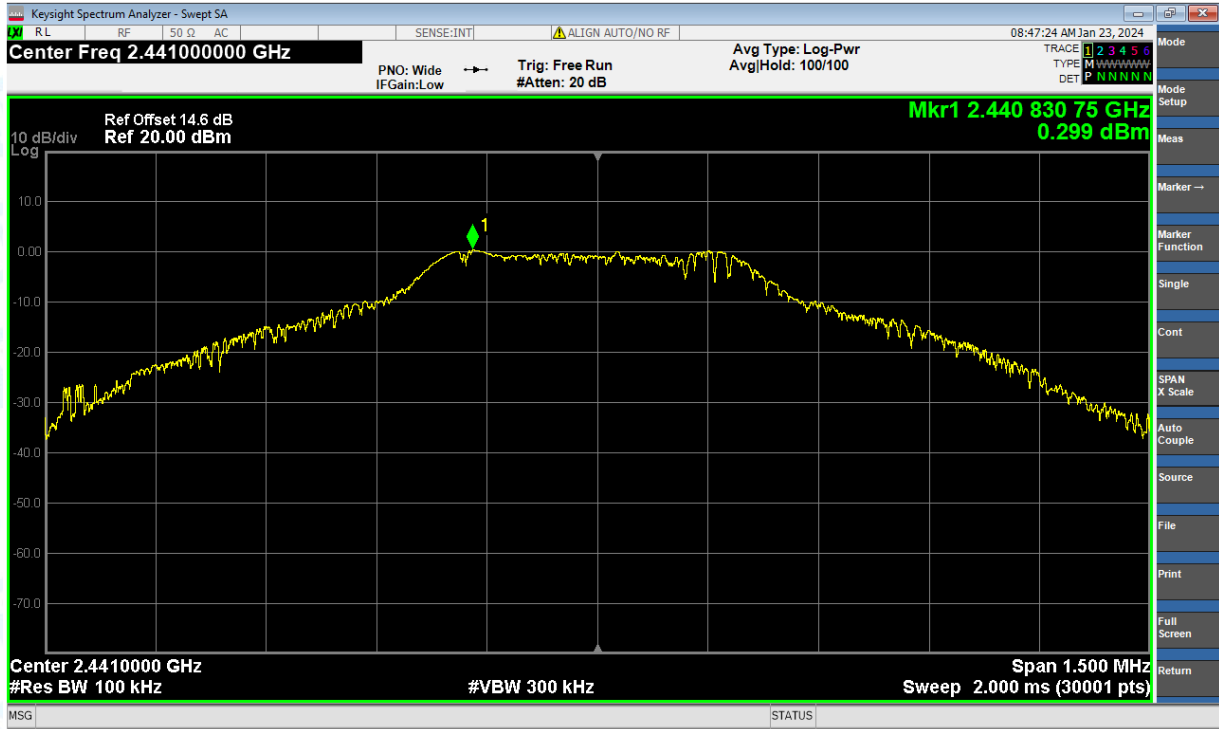
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



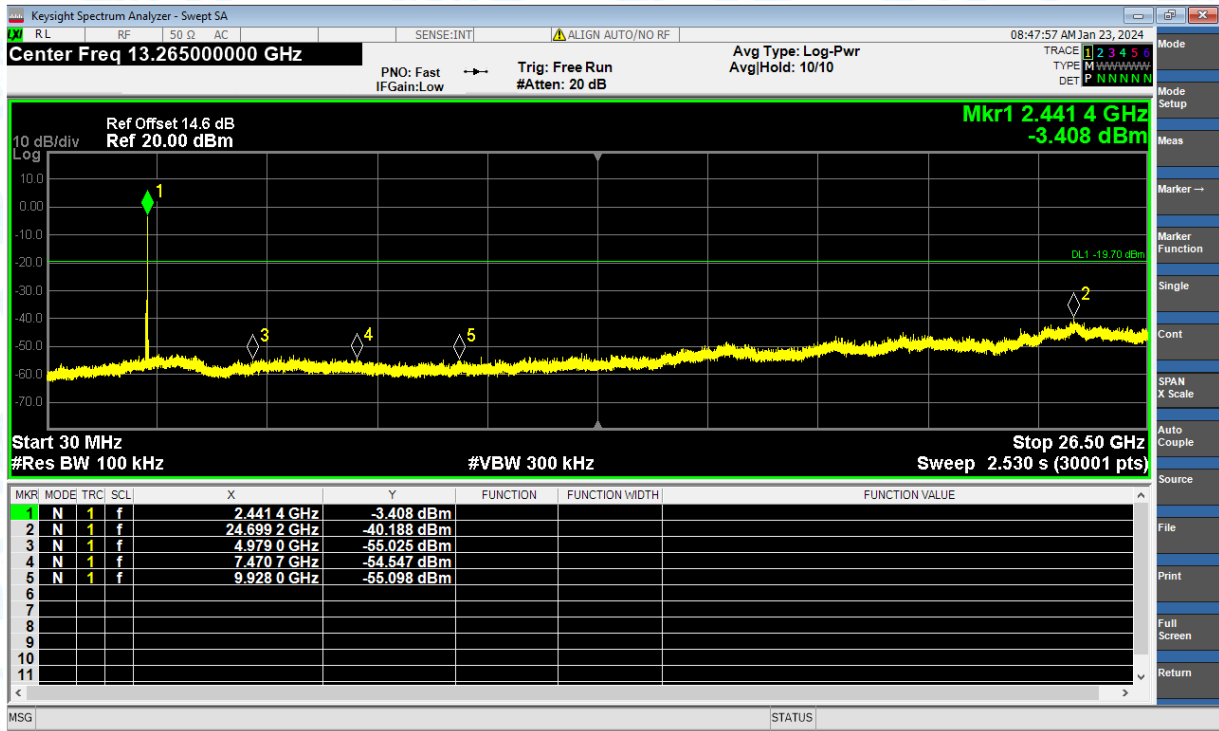
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



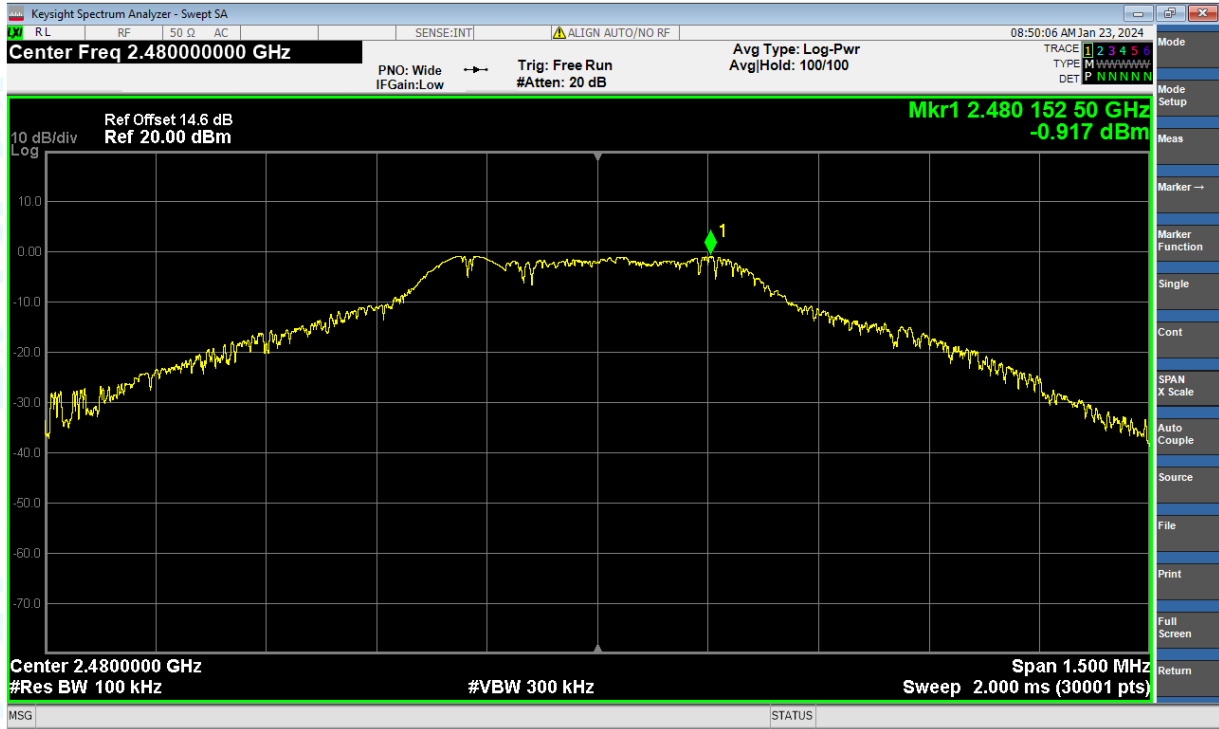
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



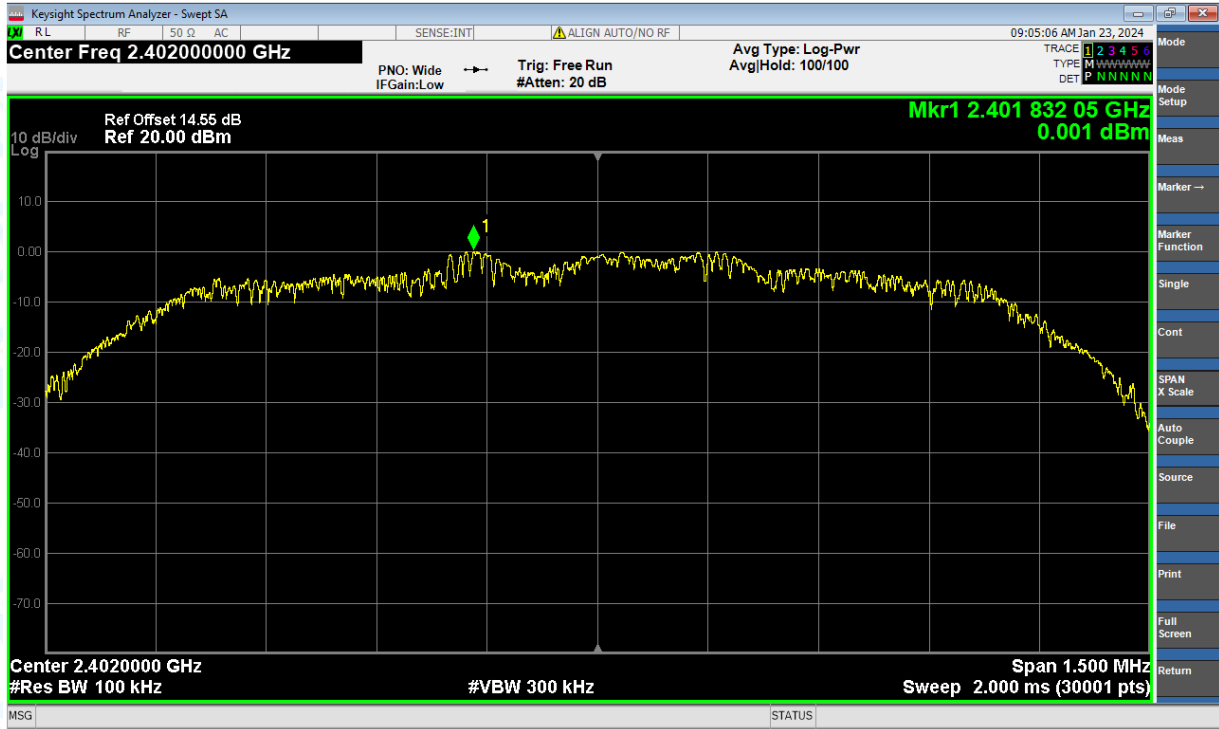
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



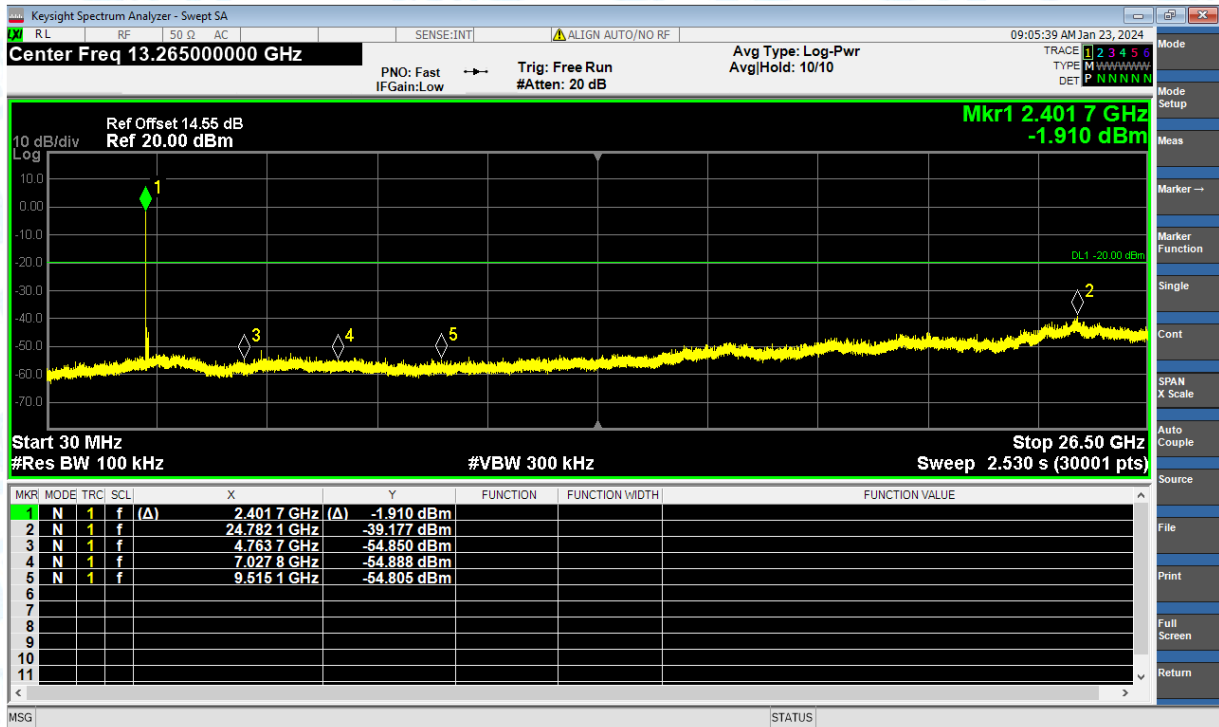
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



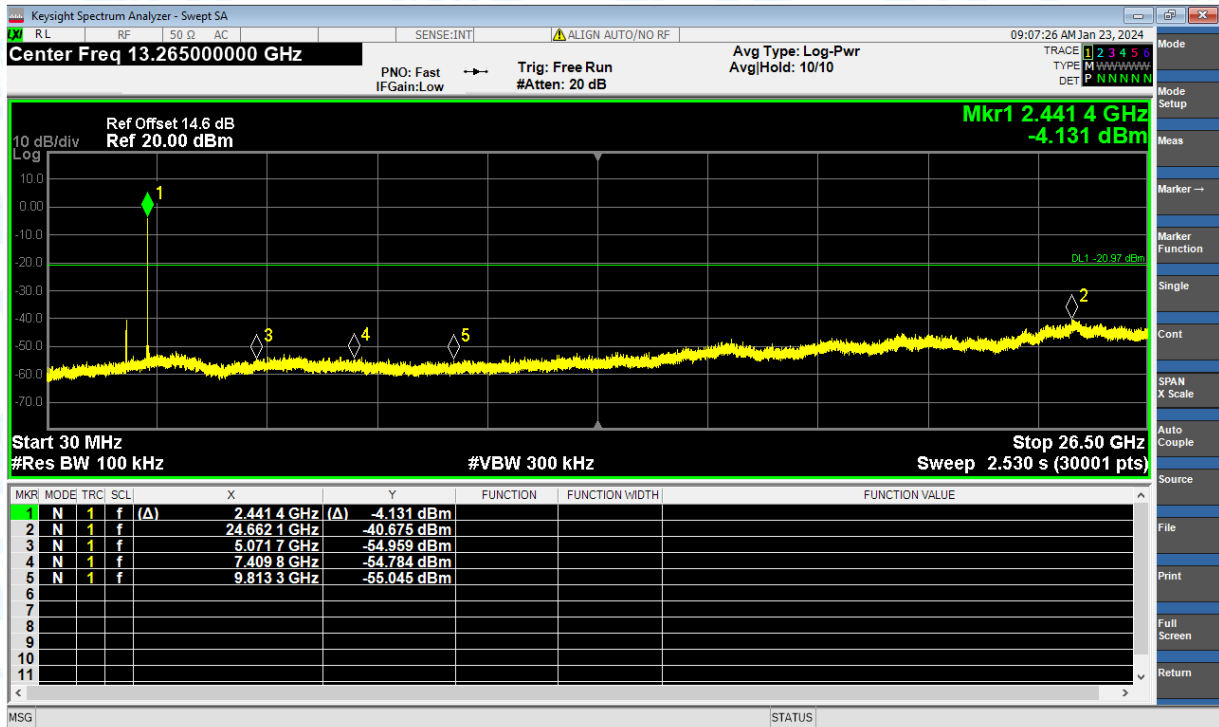
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



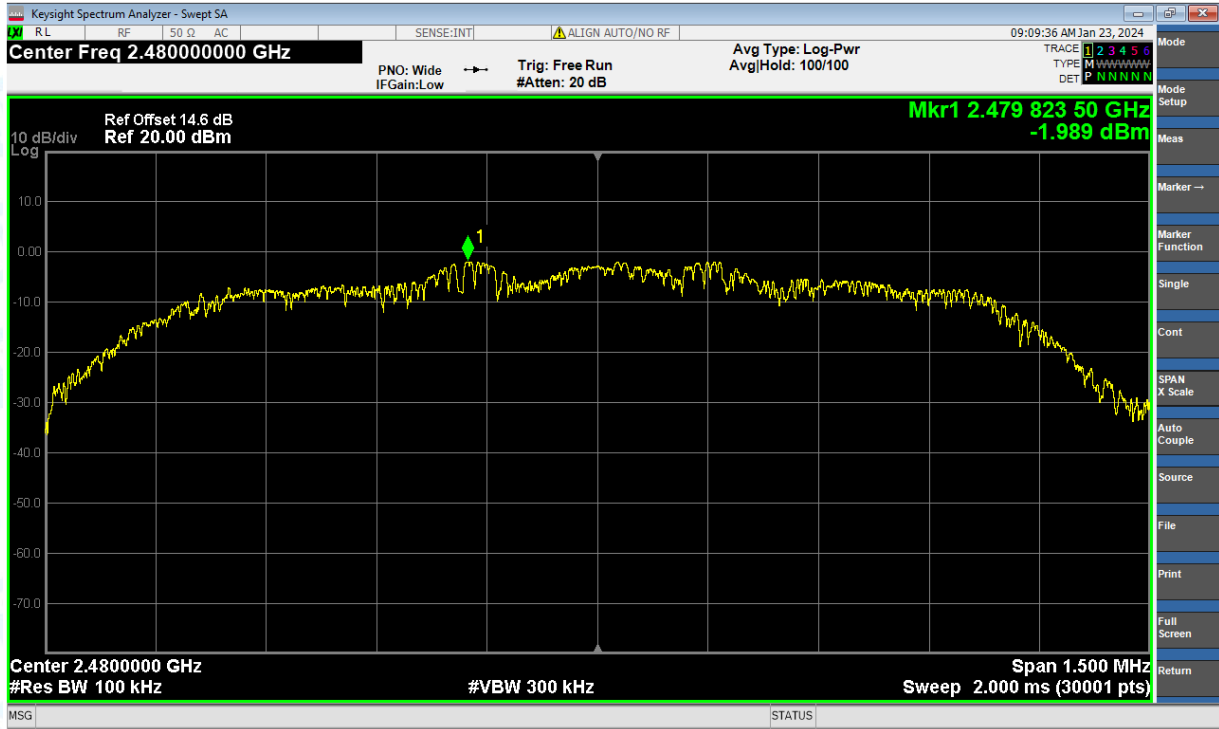
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



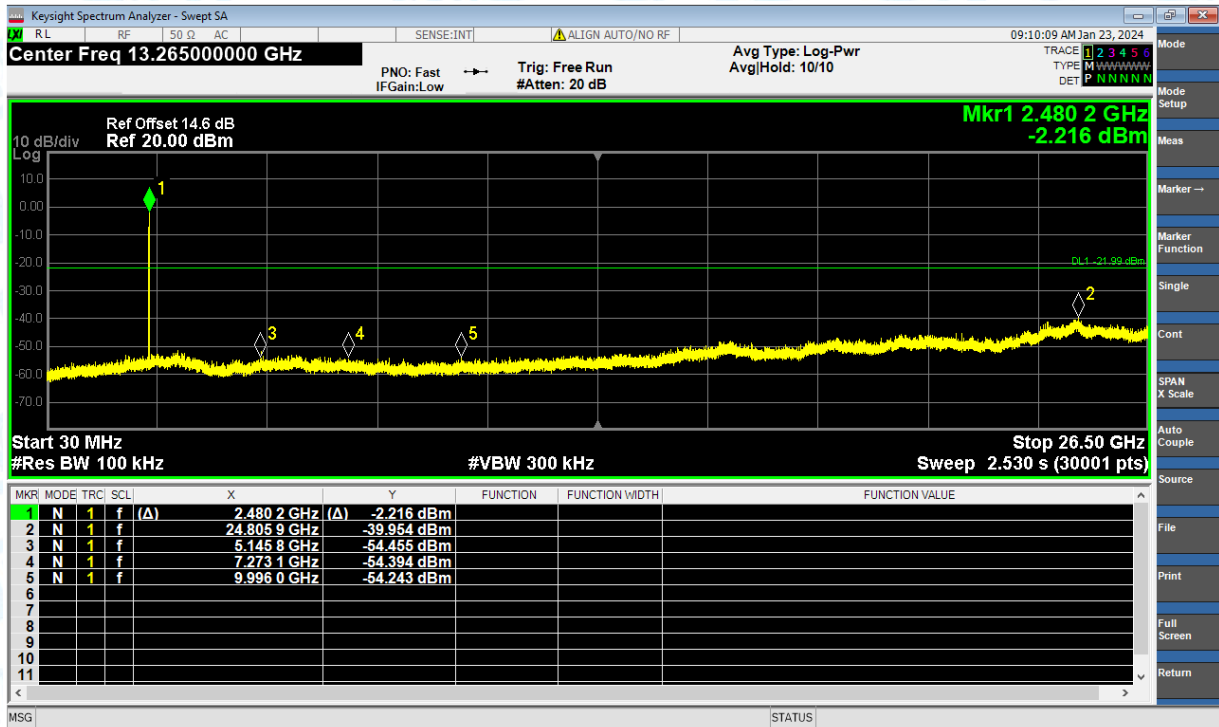
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



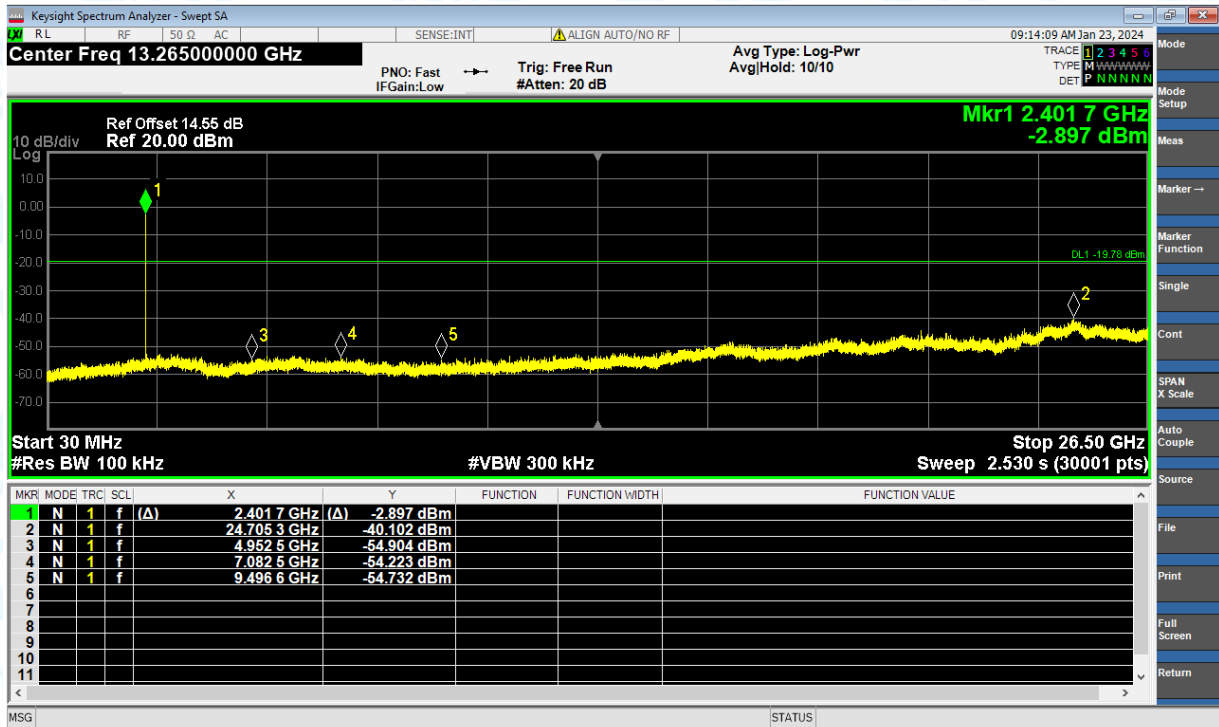
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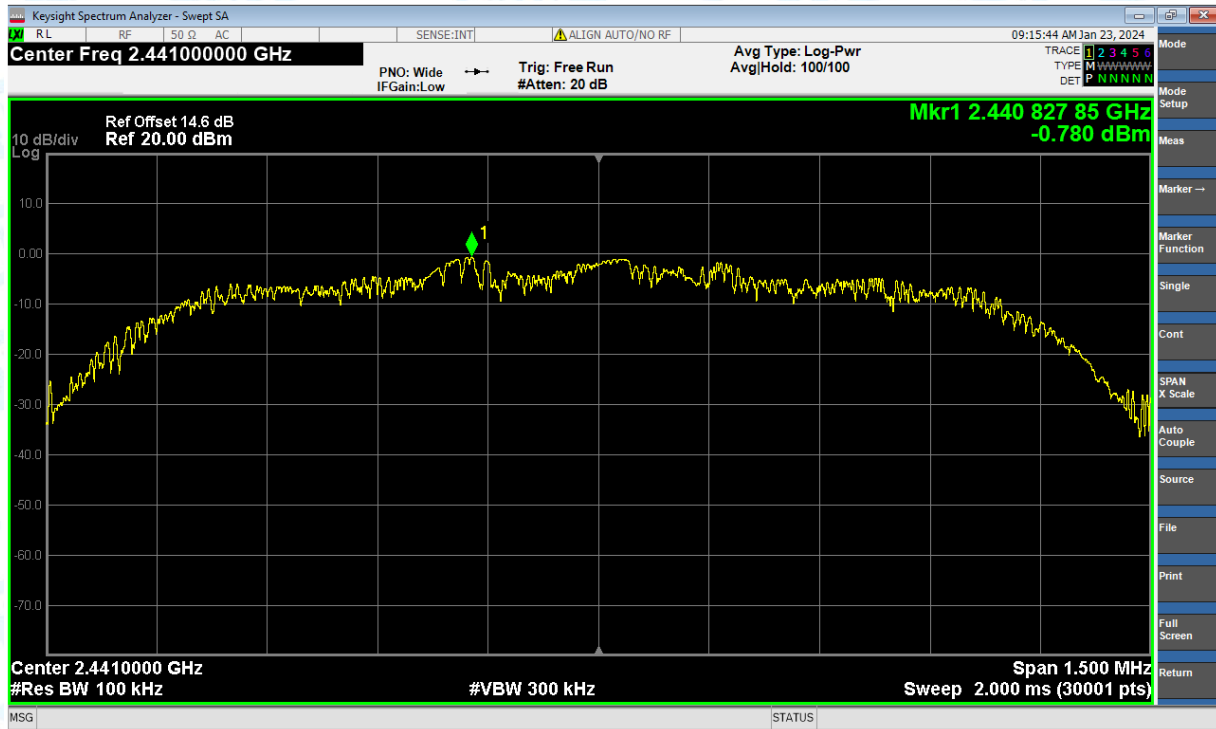
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



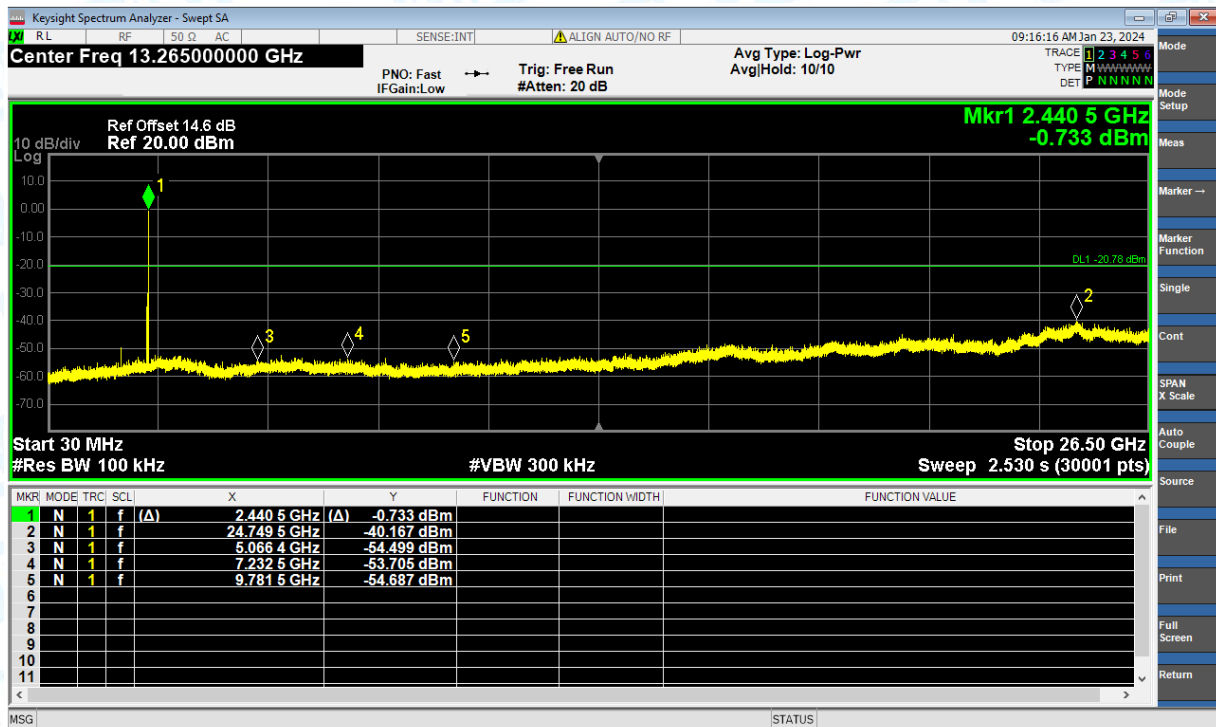
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission



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

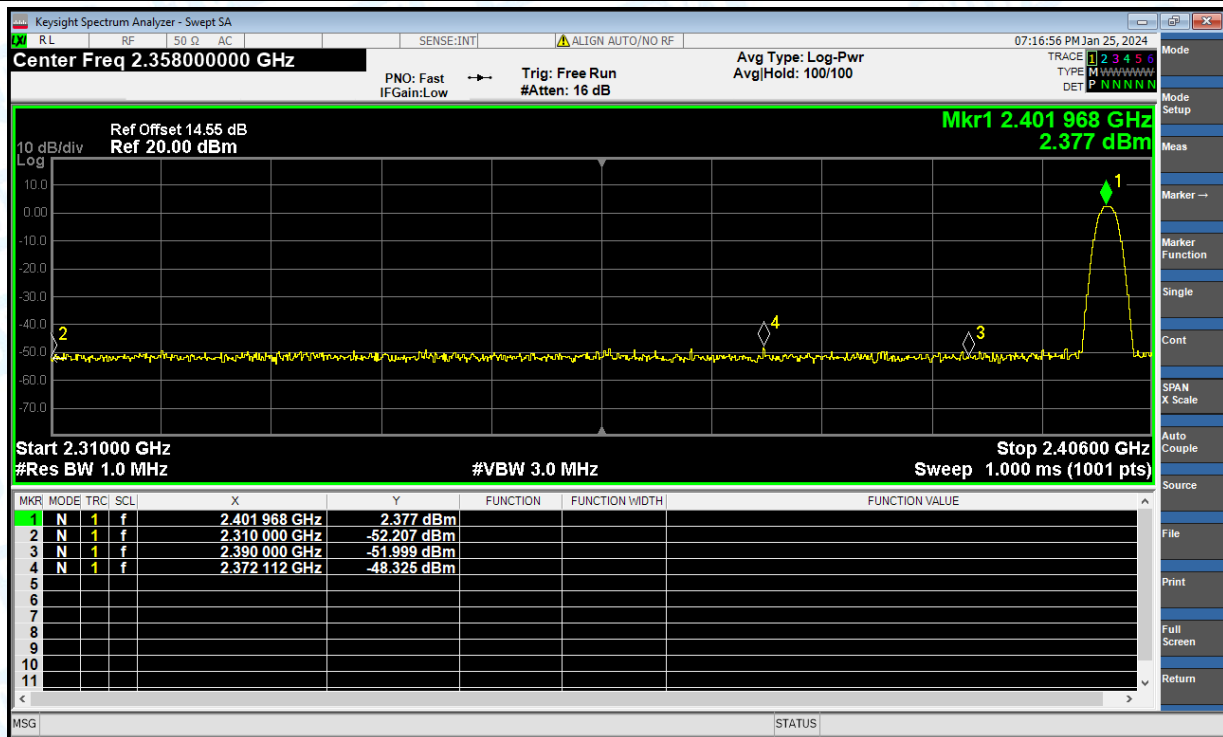


Restrict Band

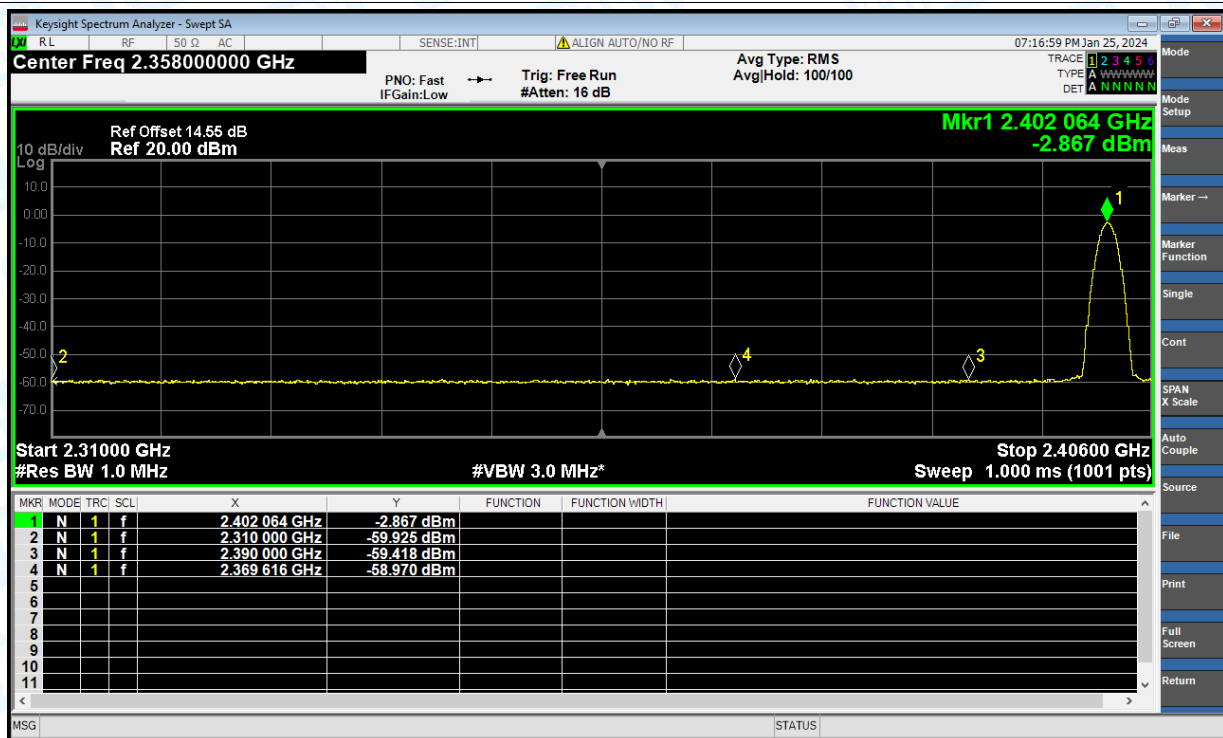
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-52.21	2	-	45.05	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-59.93	2	4.84	42.17	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2372.112	-48.32	2	-	48.94	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2369.616	-58.97	2	4.84	43.13	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-52	2	-	45.26	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-59.42	2	4.84	42.68	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-52.1	2	-	45.16	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-59.46	2	5.06	42.86	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2496.616	-48.66	2	-	48.6	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.896	-58.7	2	5.06	43.62	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-49.52	2	-	47.74	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-59.56	2	5.06	42.76	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-52.38	2	-	44.88	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-59.68	2	5.06	42.64	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2326.032	-48.87	2	-	48.39	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2388.624	-58.94	2	5.06	43.38	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-51.32	2	-	45.94	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-59.68	2	5.06	42.64	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-48.41	2	-	48.85	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-59.38	2	5.06	42.94	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2499.52	-47.67	2	-	49.59	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2487.016	-58.66	2	5.06	43.66	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-50.39	2	-	46.87	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-59.53	2	5.06	42.79	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-50.91	2	-	46.35	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-59.87	2	5.17	42.56	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2367.6	-48.2	2	-	49.06	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2389.68	-58.89	2	5.17	43.54	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-50.84	2	-	46.42	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-59.77	2	5.17	42.66	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-50.13	2	-	47.13	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-59.42	2	5.17	43.01	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2495.968	-48.21	2	-	49.05	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.848	-58.54	2	5.17	43.89	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-52.22	2	-	45.04	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-59.95	2	5.17	42.48	Average	54	Pass

Test Graphs

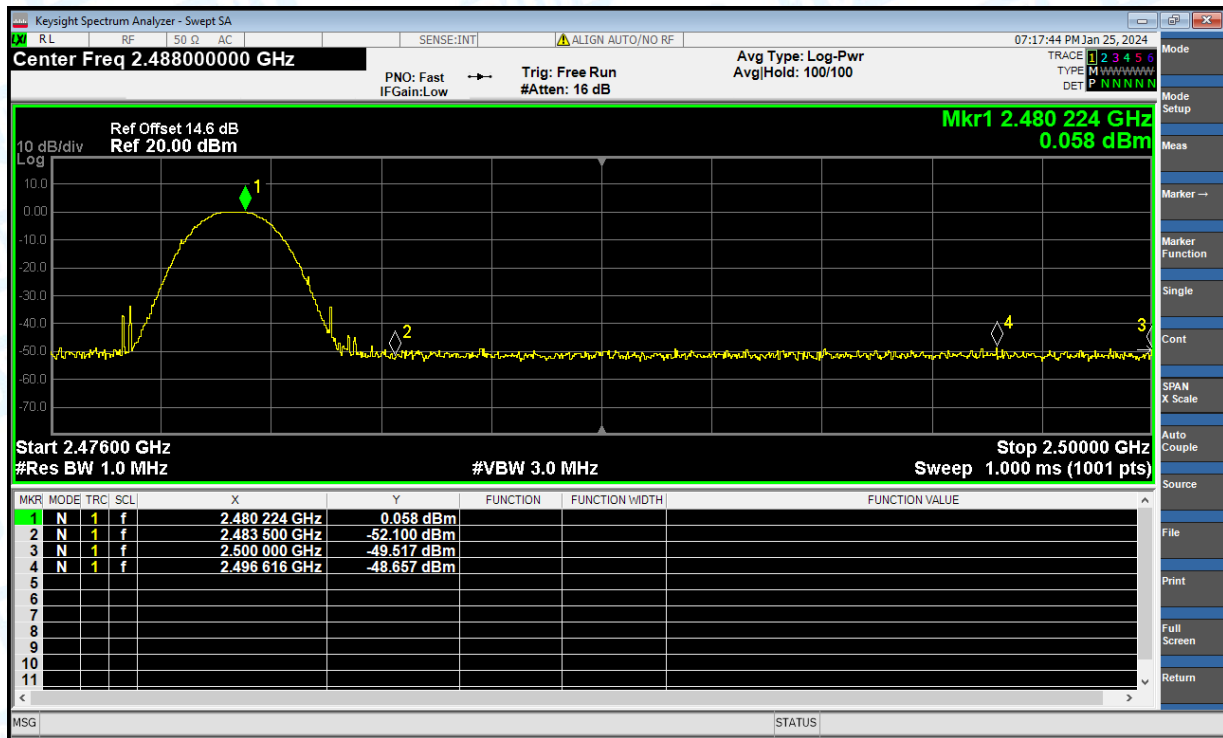
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



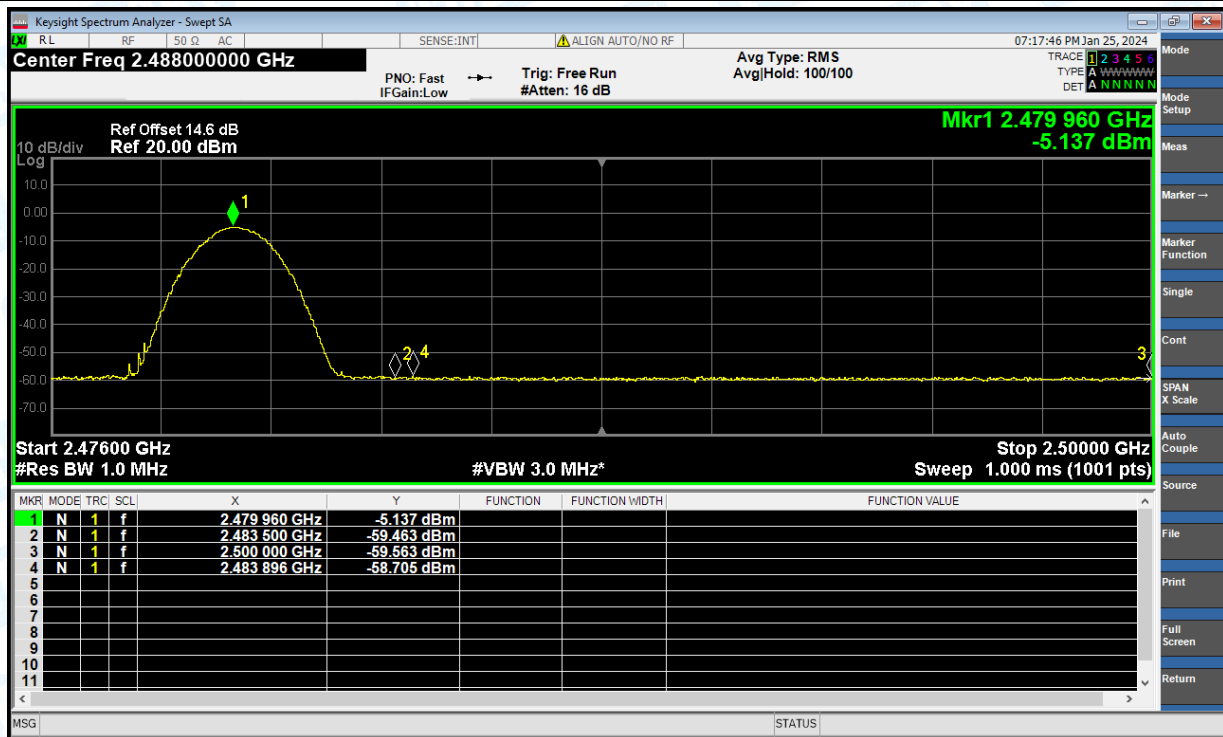
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



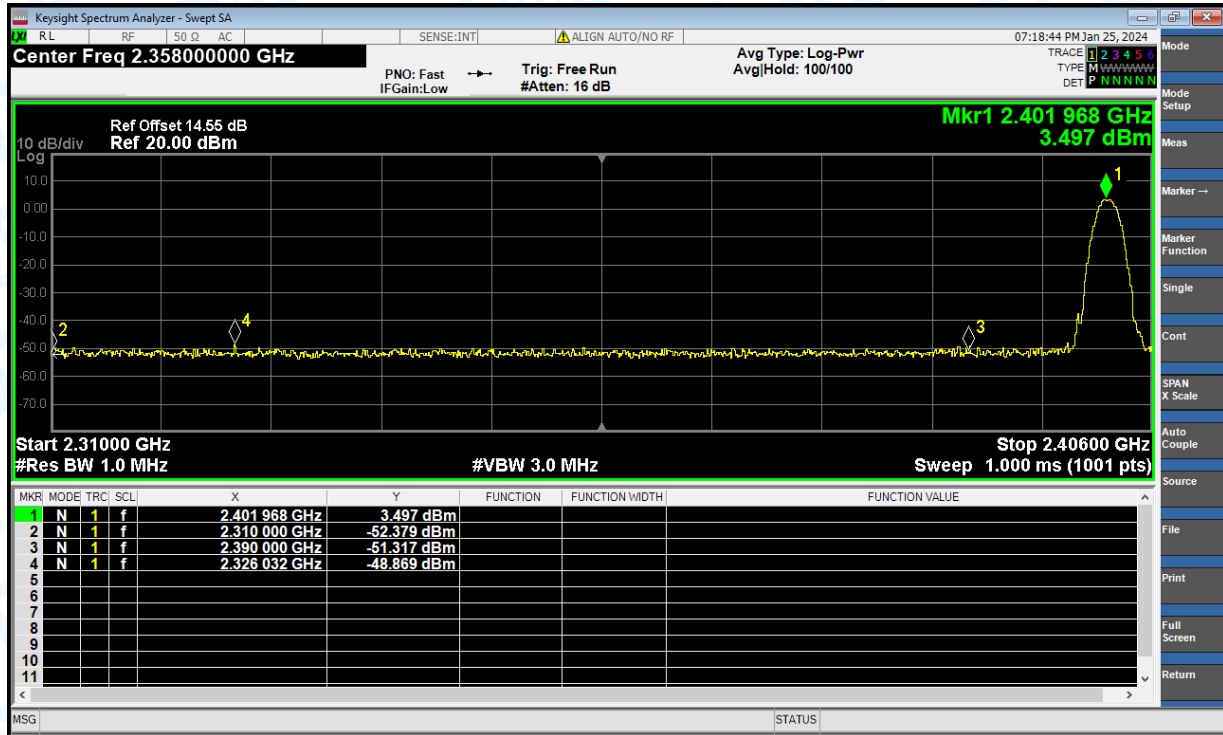
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



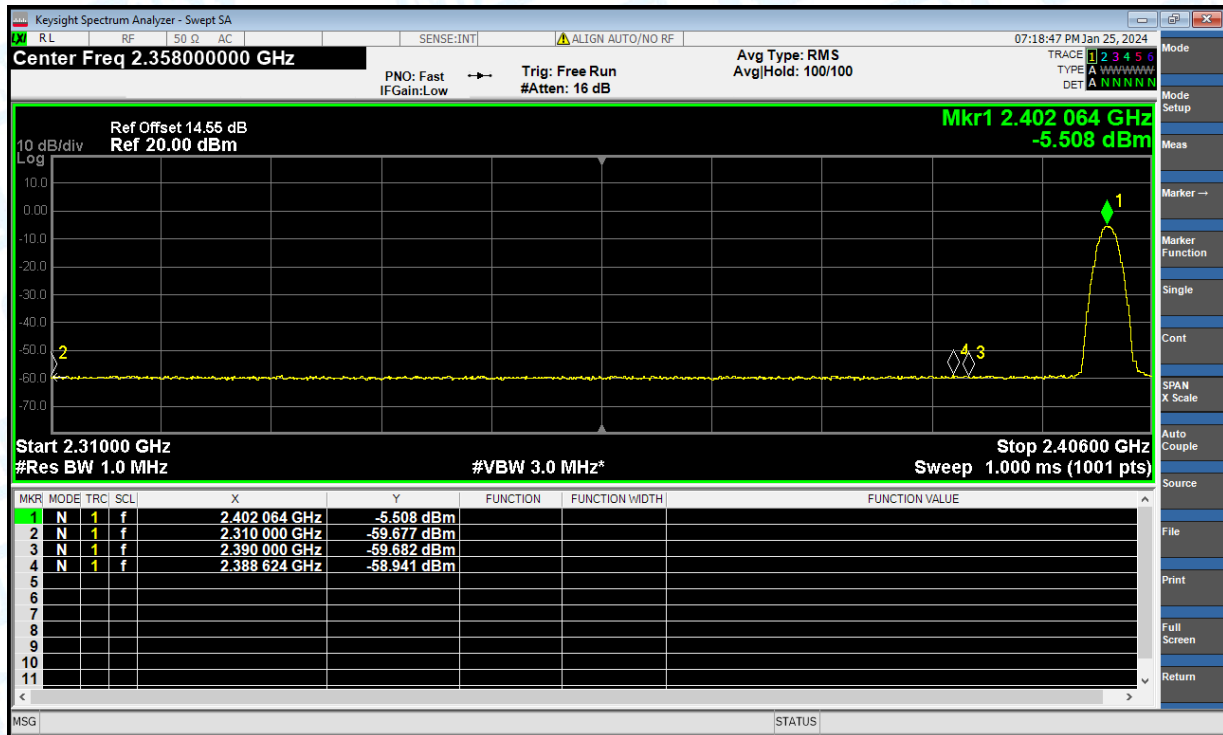
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



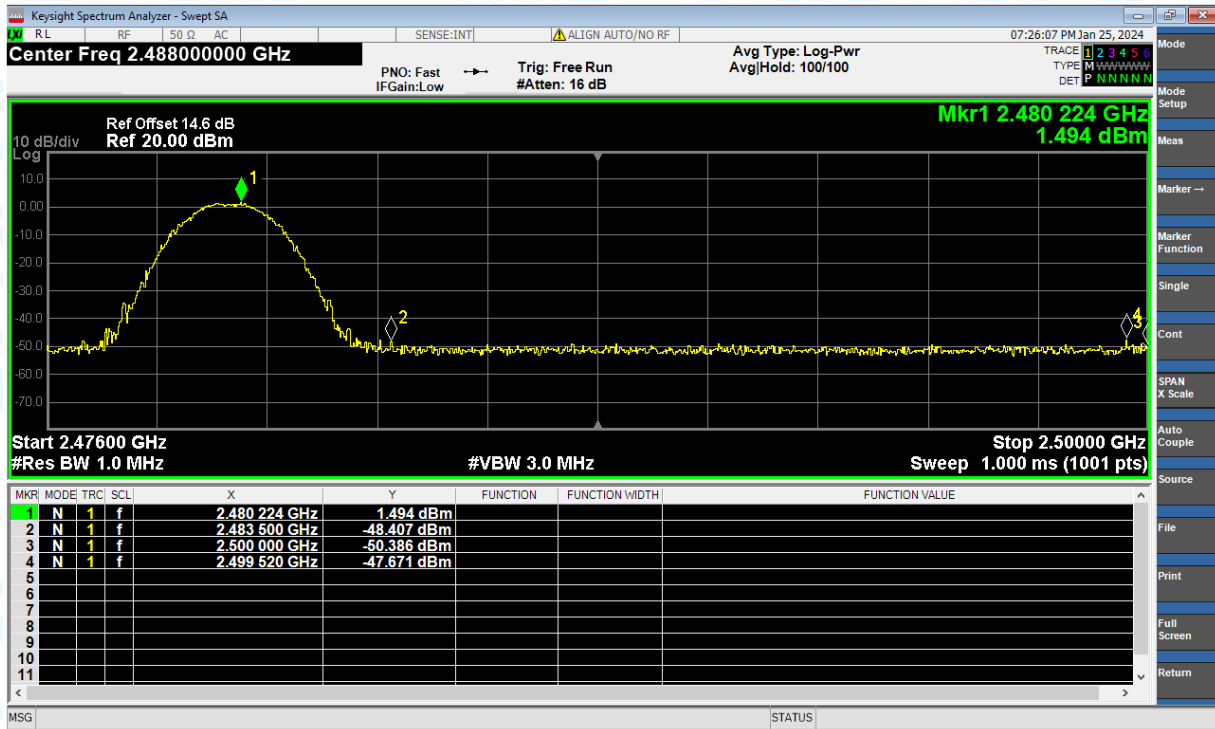
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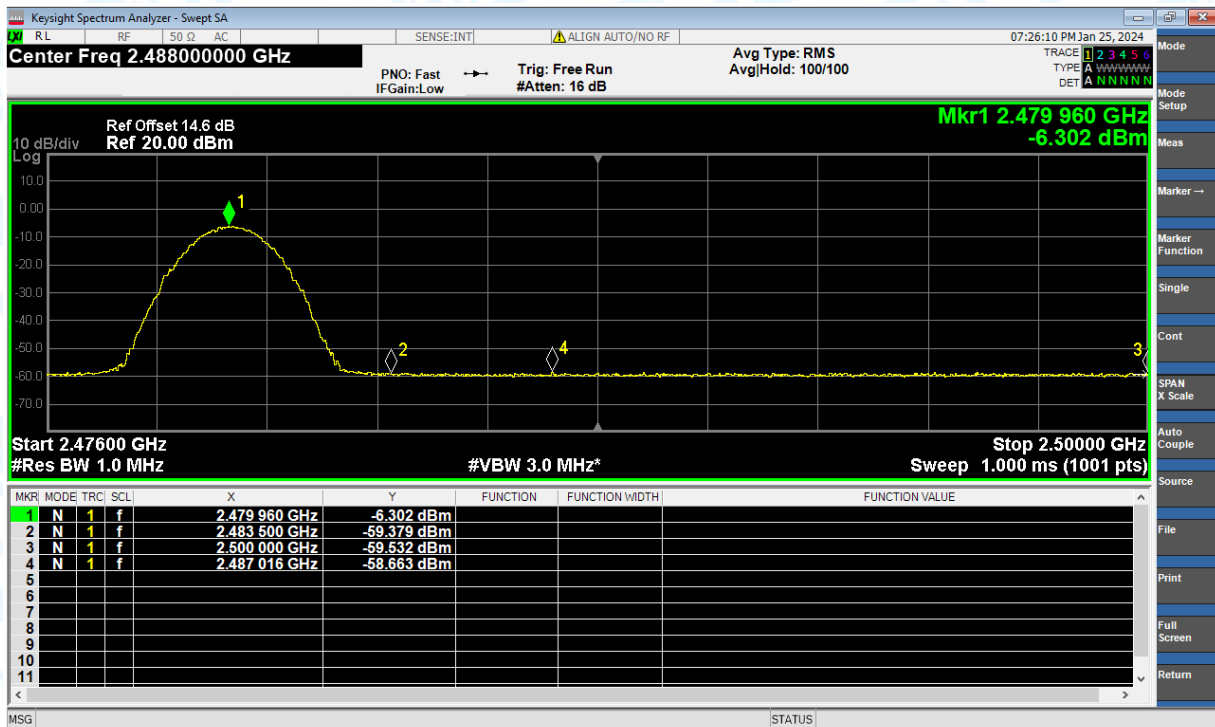
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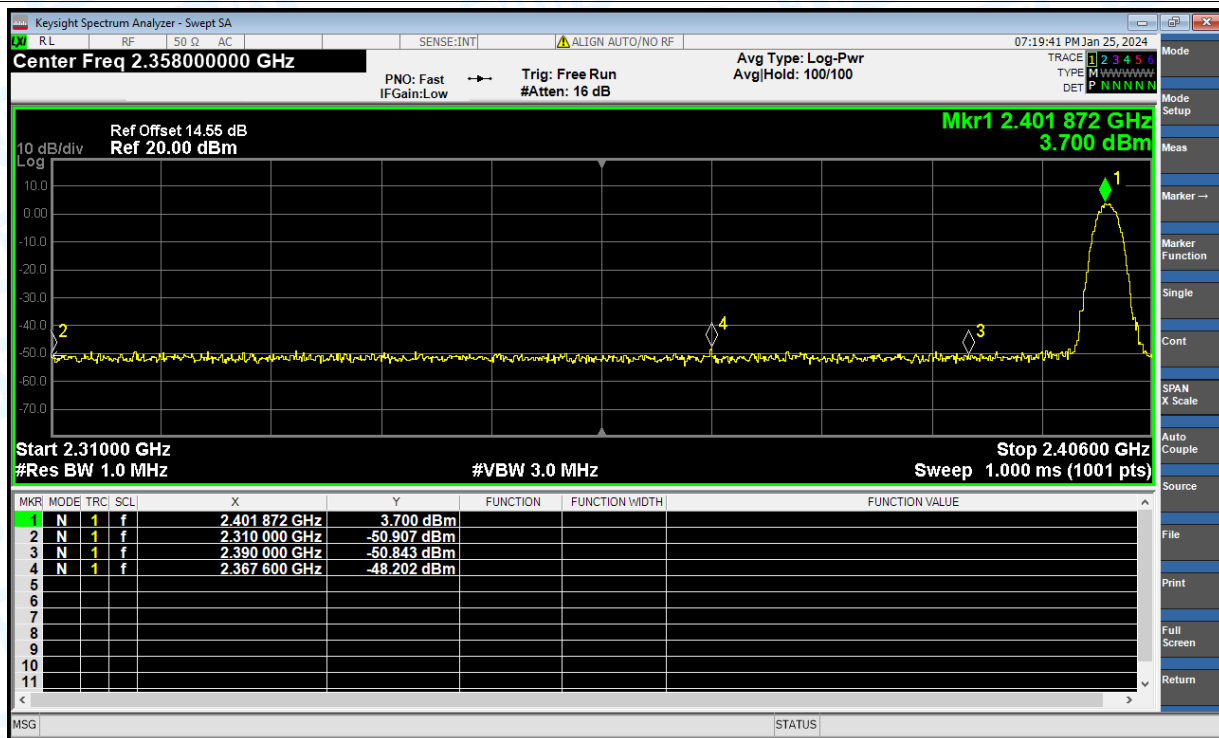
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak



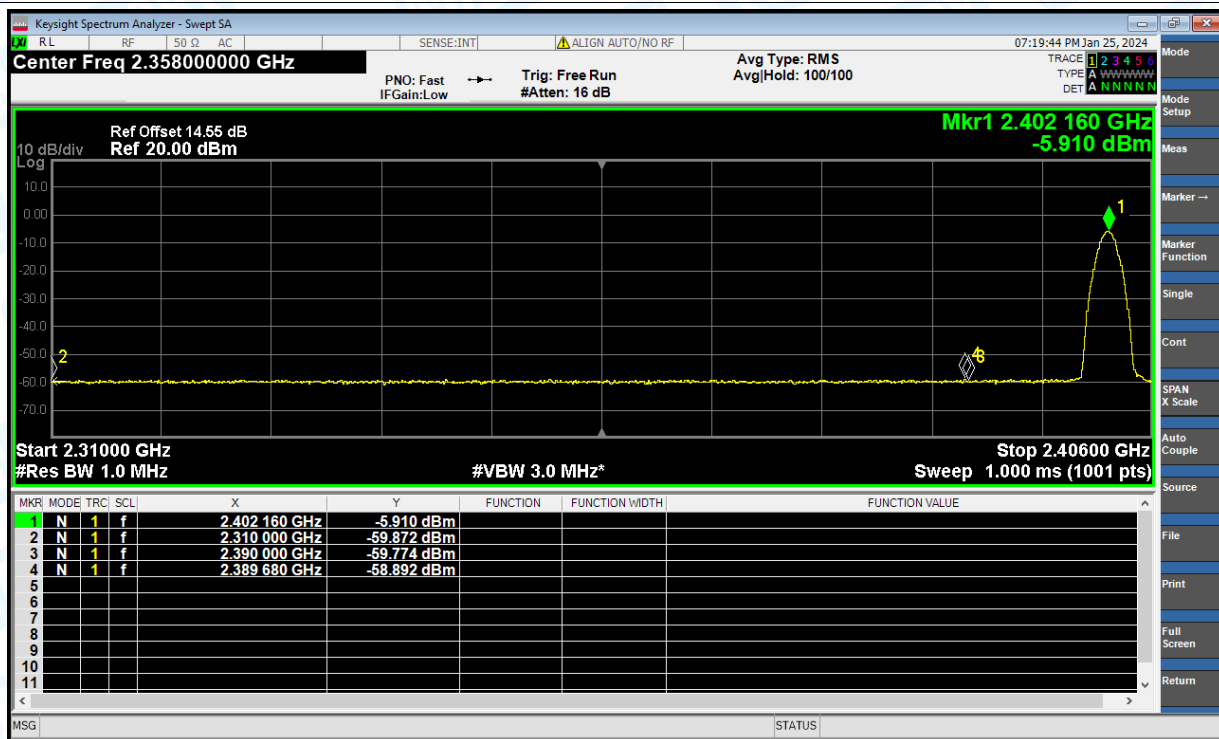
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Average



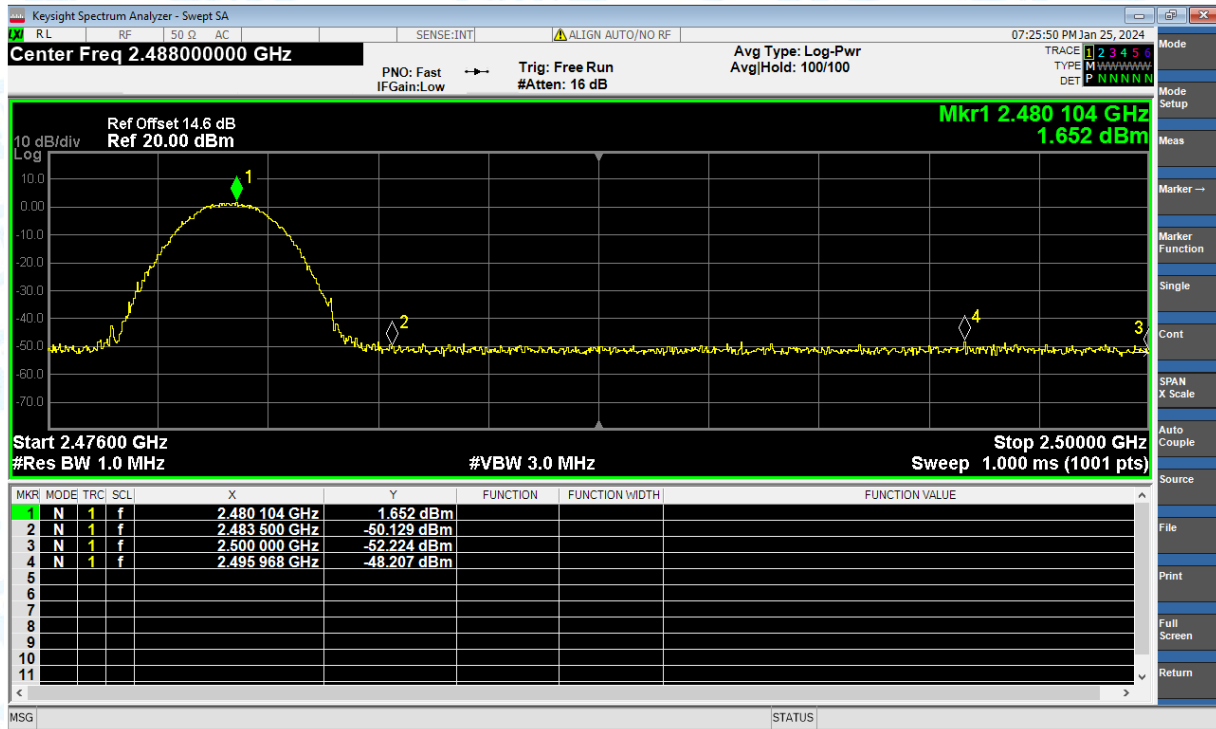
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Peak



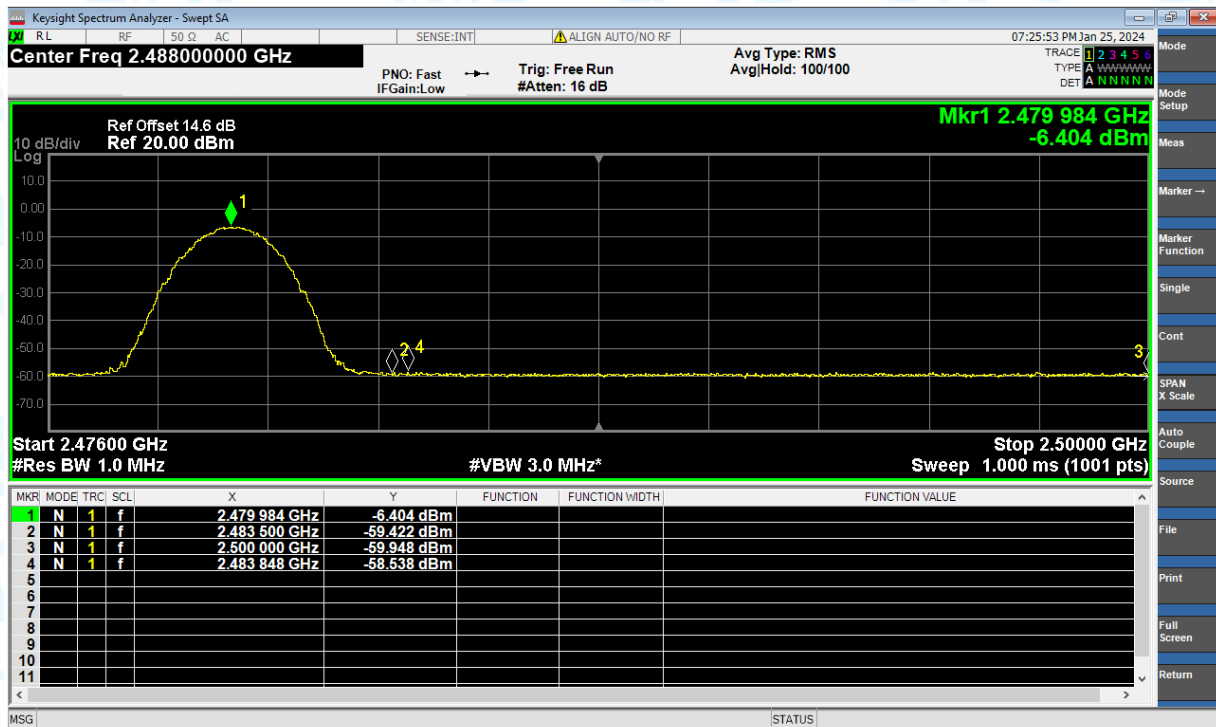
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Average



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



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



Carrier Frequencies Separation

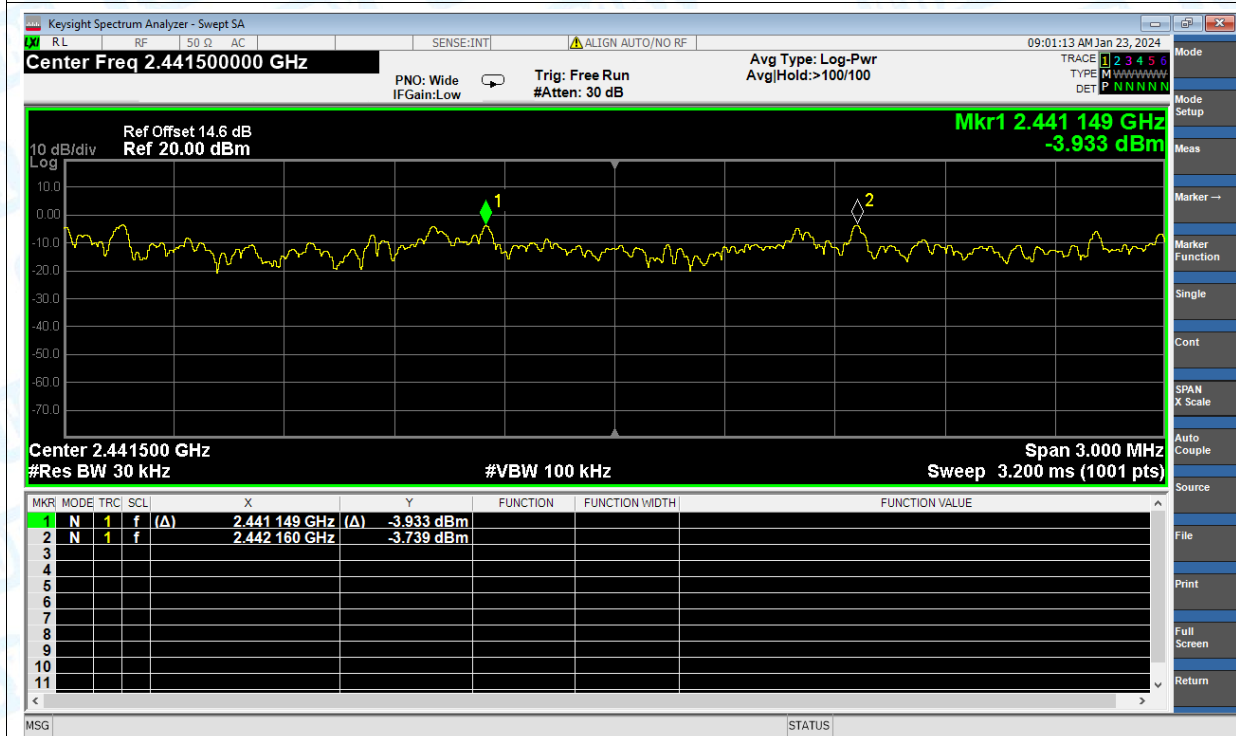
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2440.825	2441.818	0.993	0.593	Pass
NVNT	2-DH1	Ant1	2441.149	2442.16	1.011	0.025	Pass
NVNT	3-DH1	Ant1	2441.008	2442.016	1.008	0.82	Pass

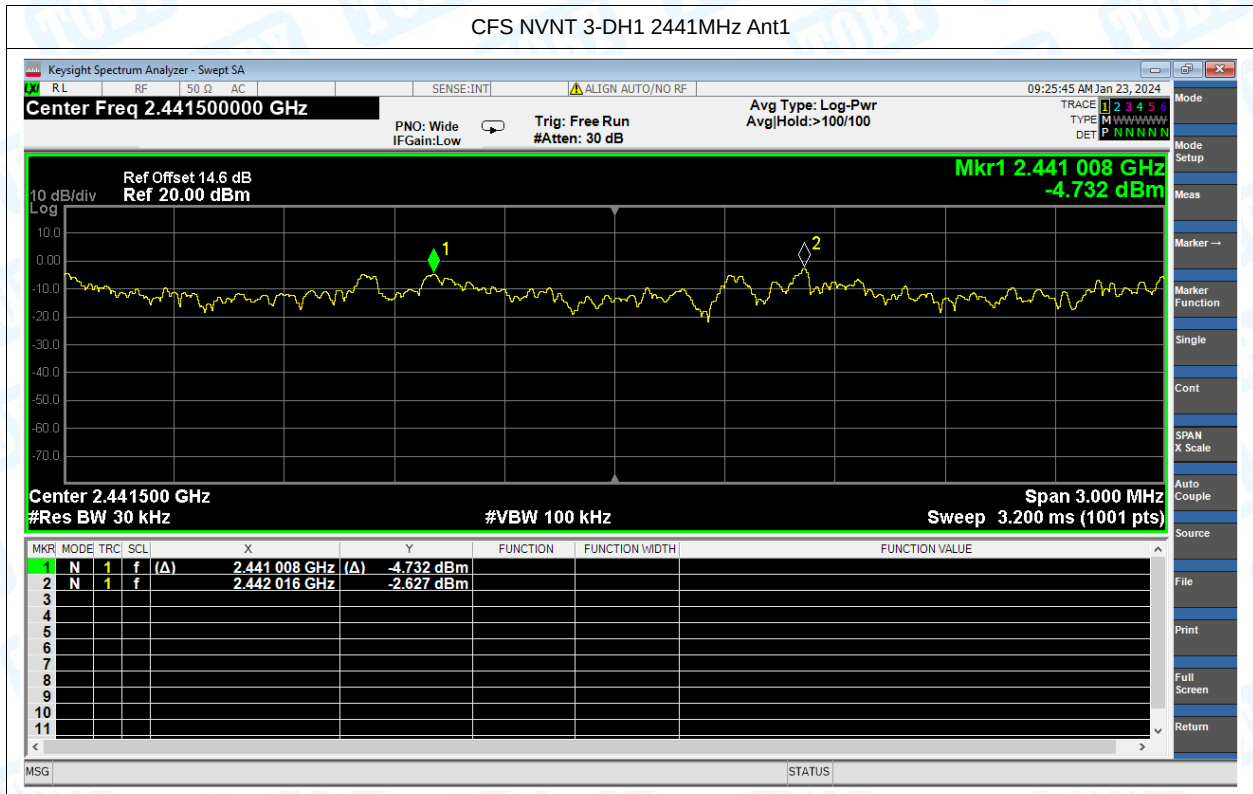
Test Graphs

CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1



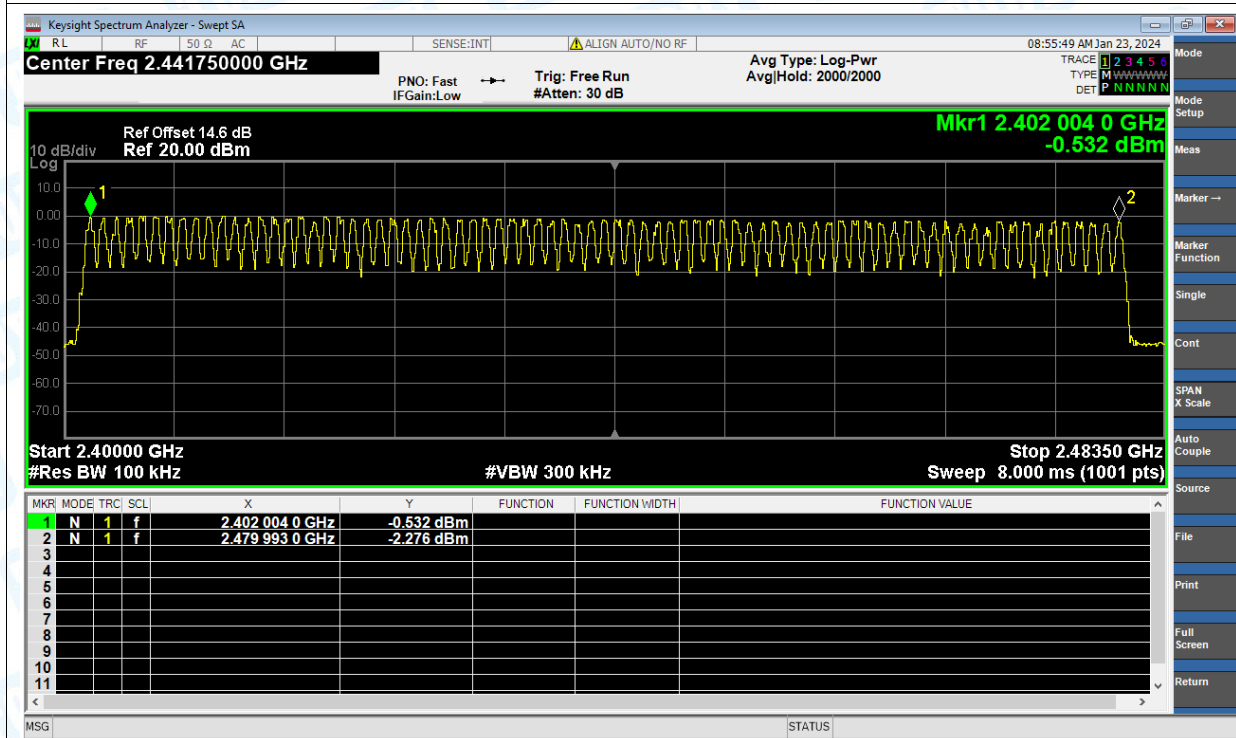


Number of Hopping Channel

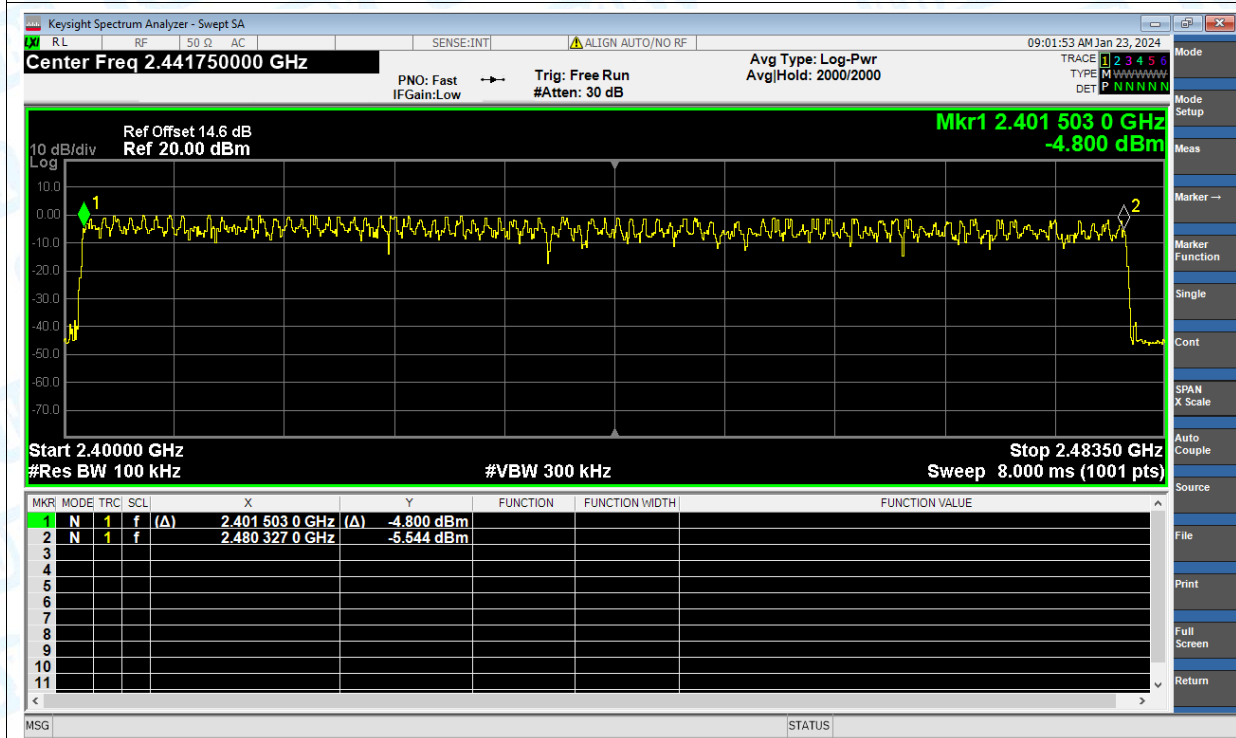
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

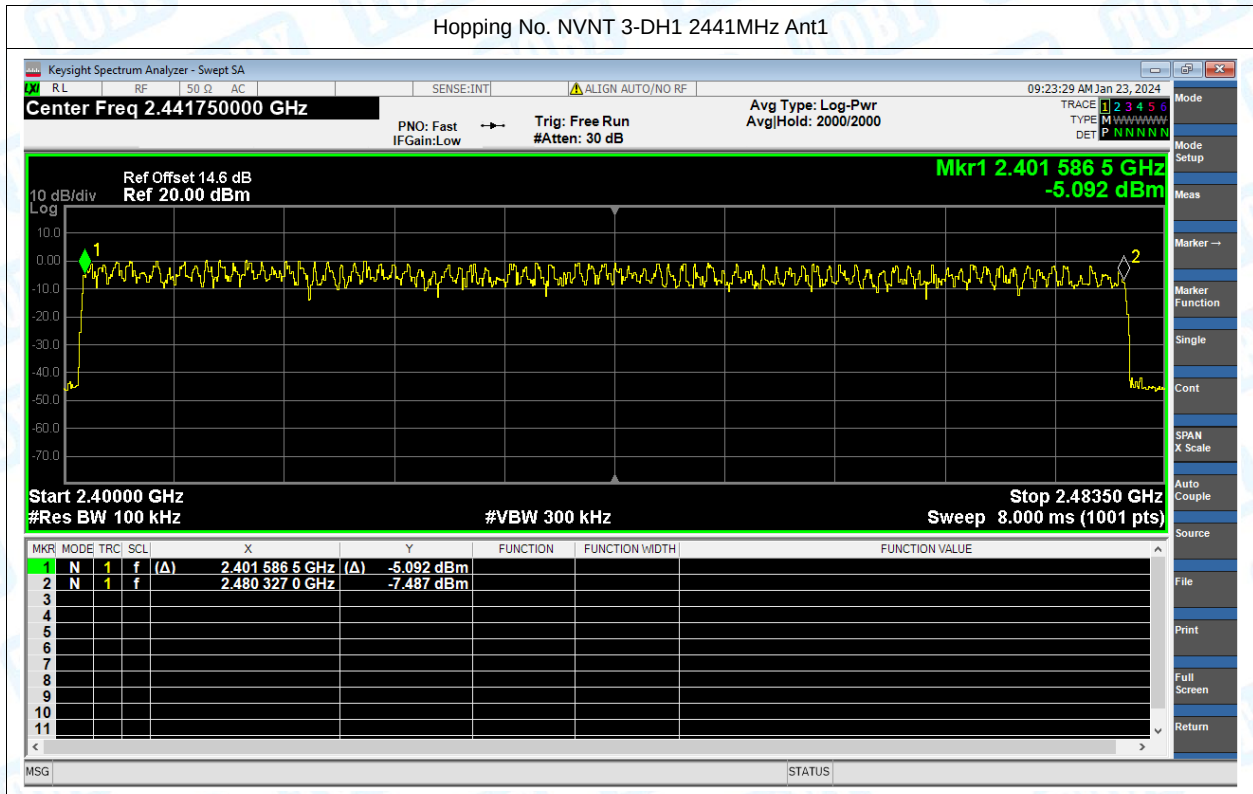
Test Graphs

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1



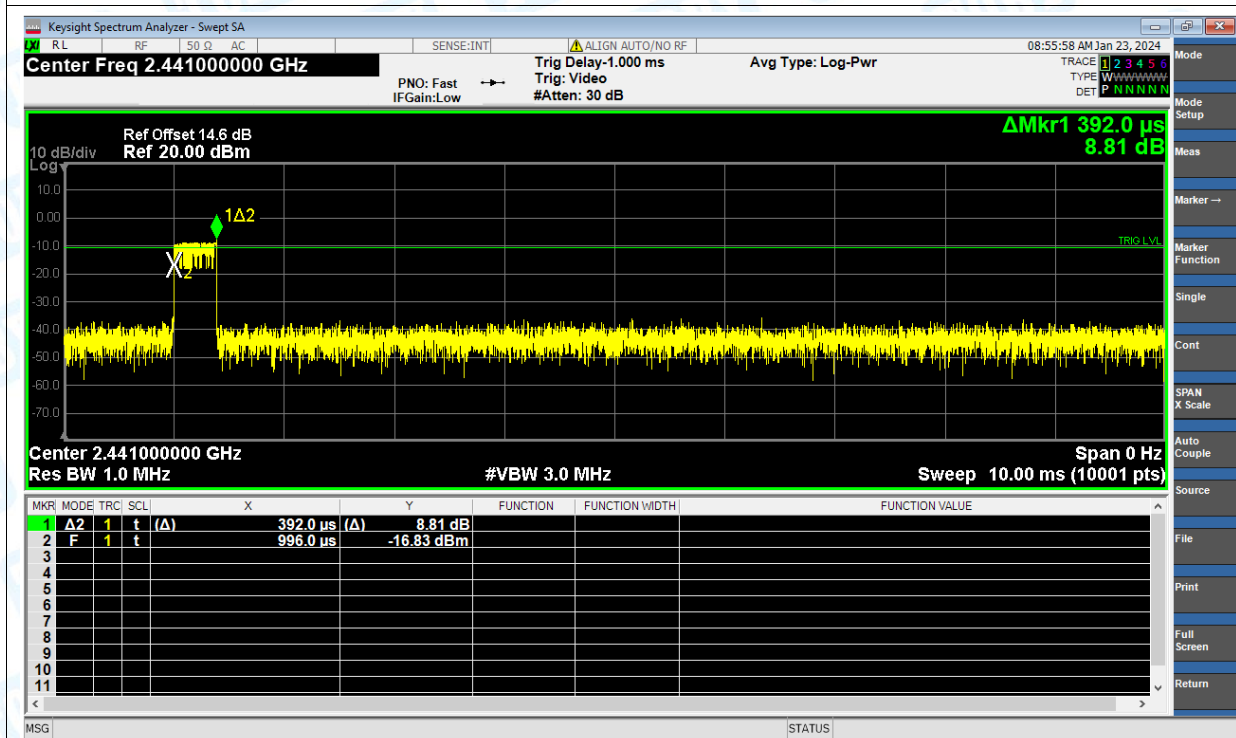


Dwell Time

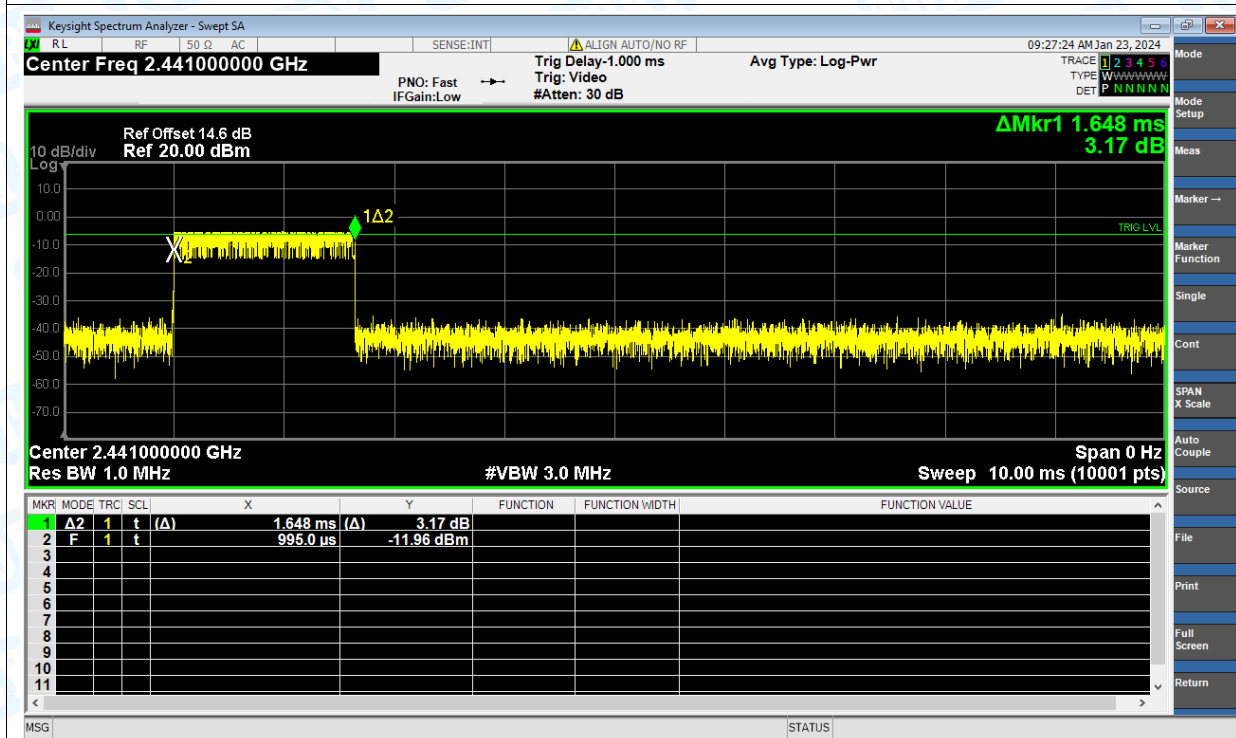
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.392	125.44	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.648	263.68	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.896	308.907	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.384	122.88	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.636	261.76	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.884	307.627	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.382	122.24	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.632	261.12	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.883	307.52	31600	400	Pass

Test Graphs

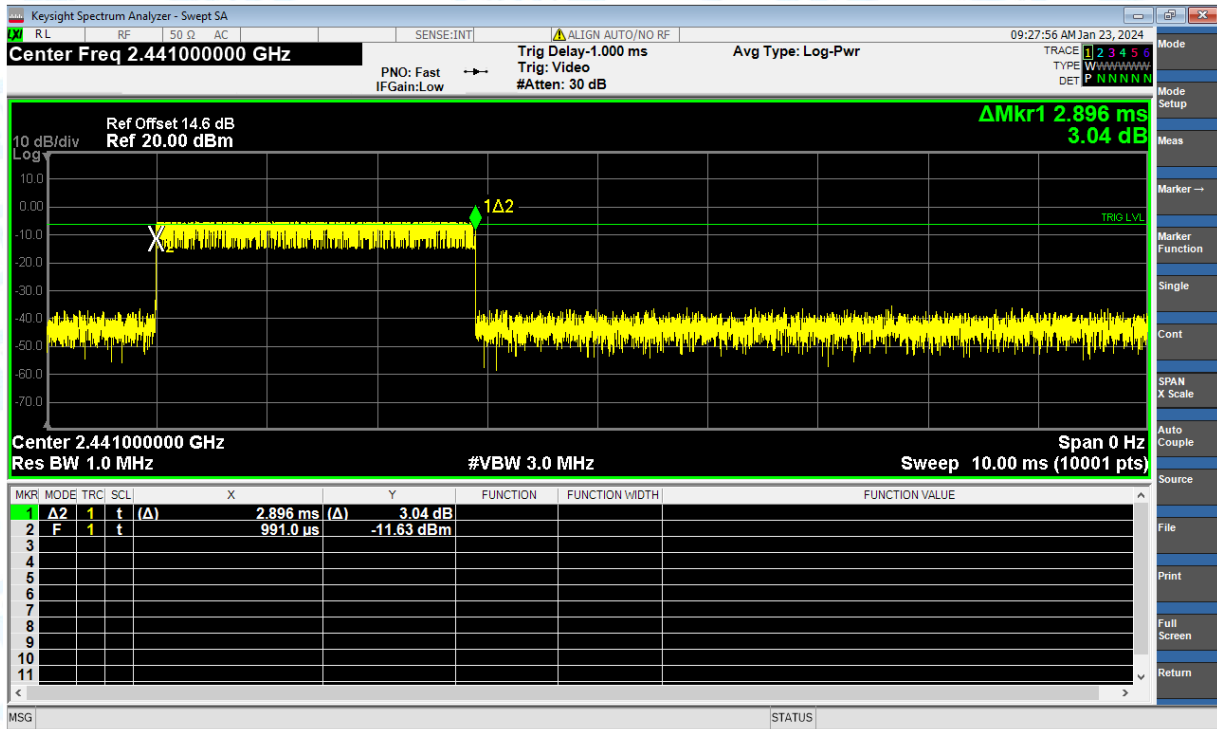
Dwell NVNT 1-DH1 2441MHz Ant1



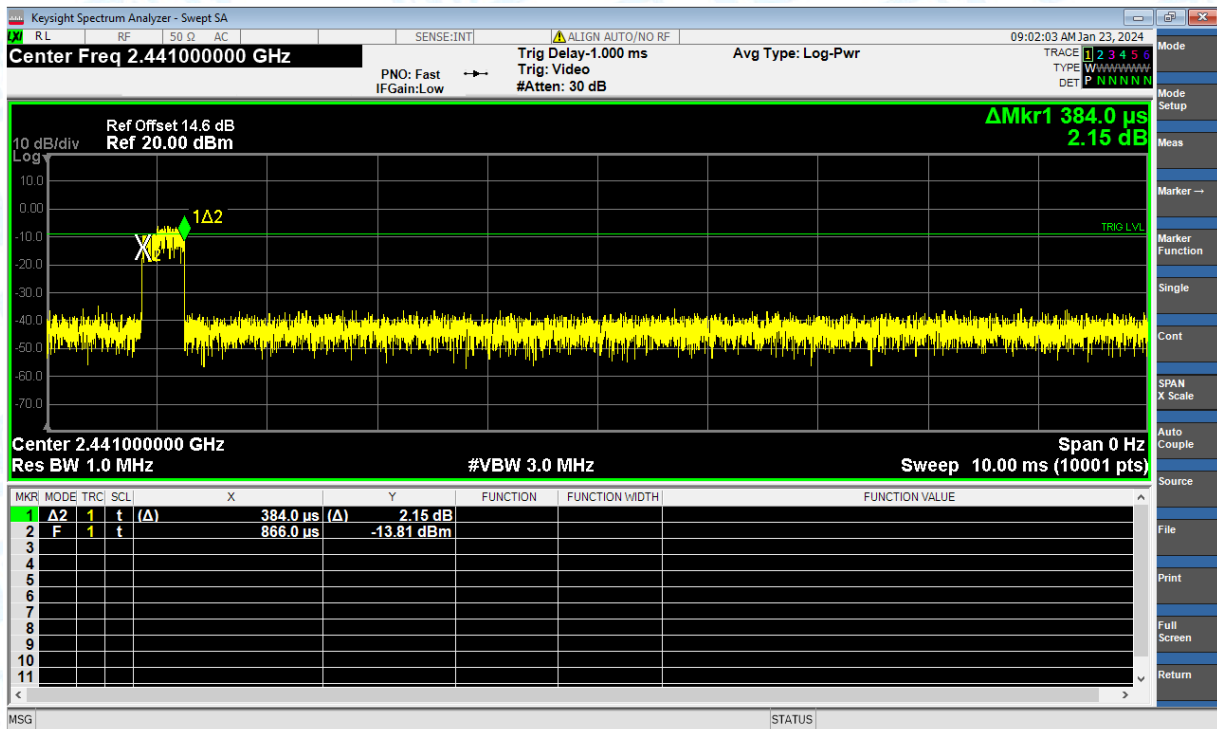
Dwell NVNT 1-DH3 2441MHz Ant1



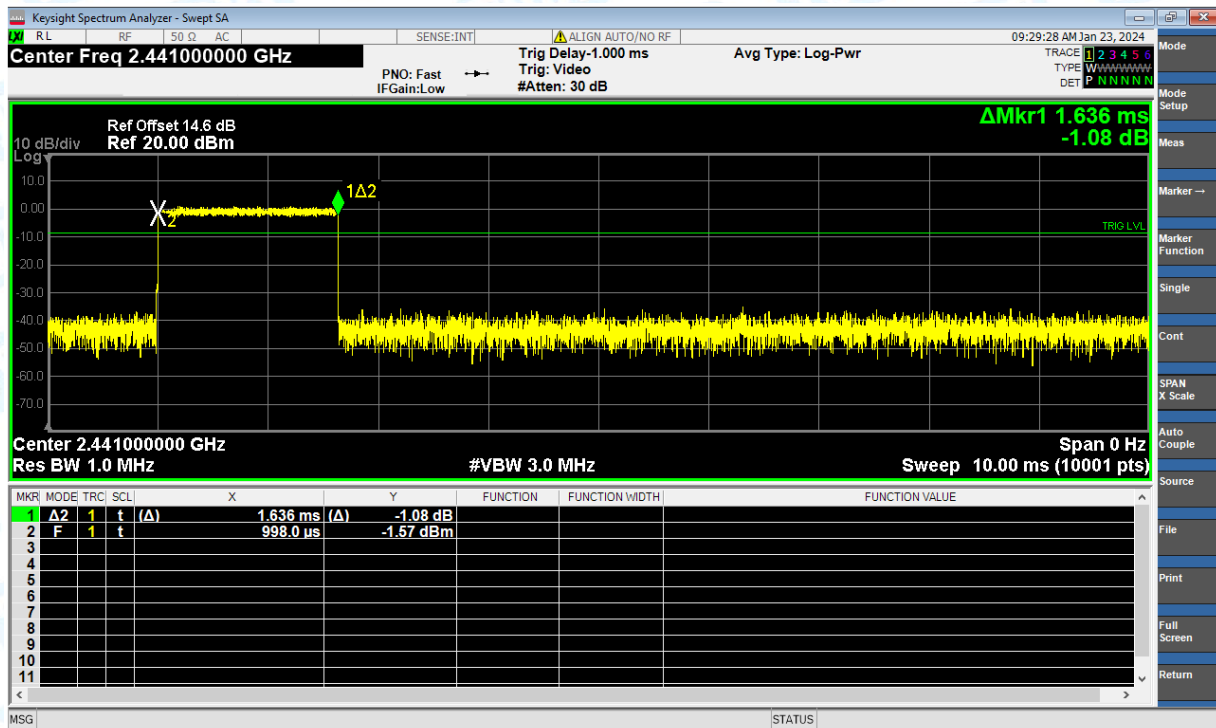
Dwell NVNT 1-DH5 2441MHz Ant1



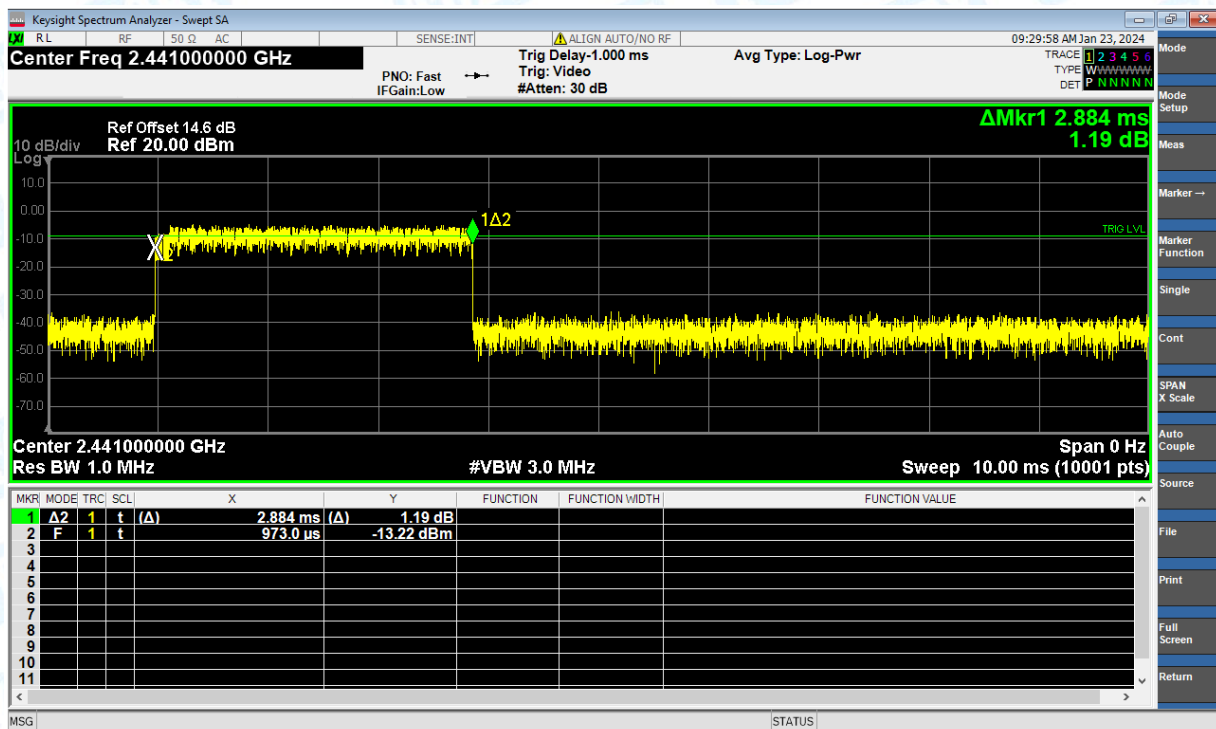
Dwell NVNT 2-DH1 2441MHz Ant1



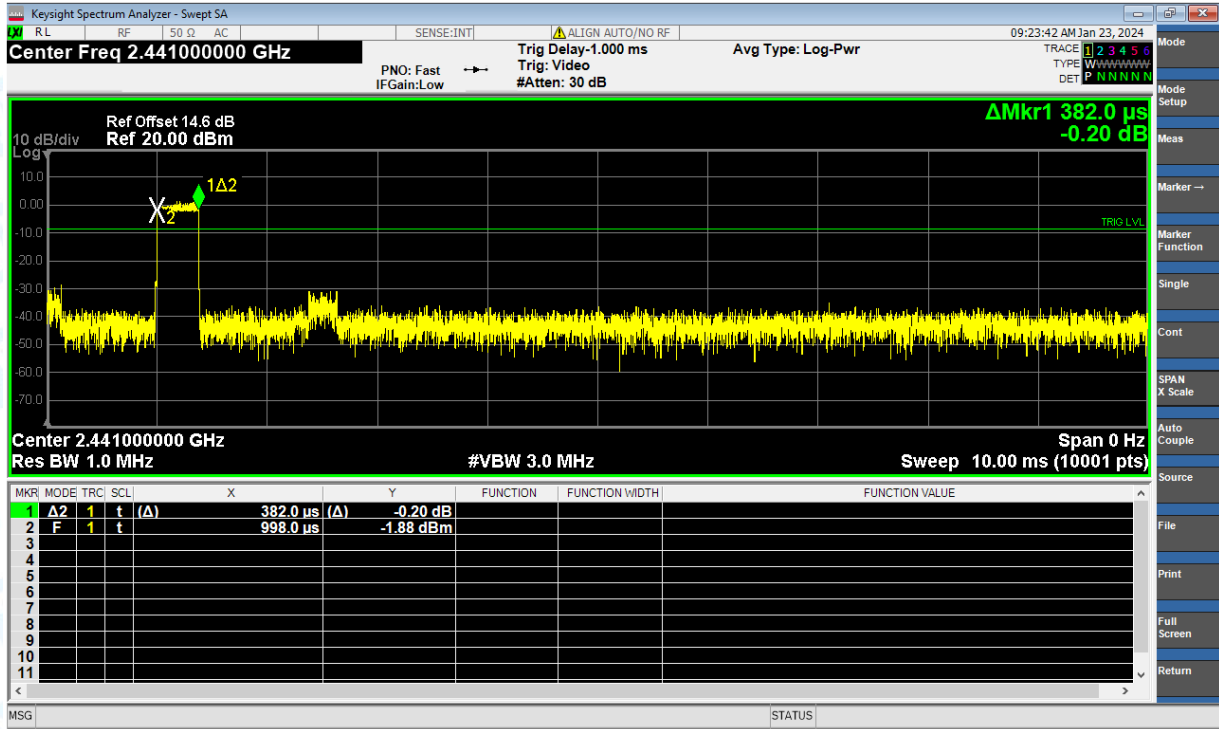
Dwell NVNT 2-DH3 2441MHz Ant1



Dwell NVNT 2-DH5 2441MHz Ant1



Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1

