

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

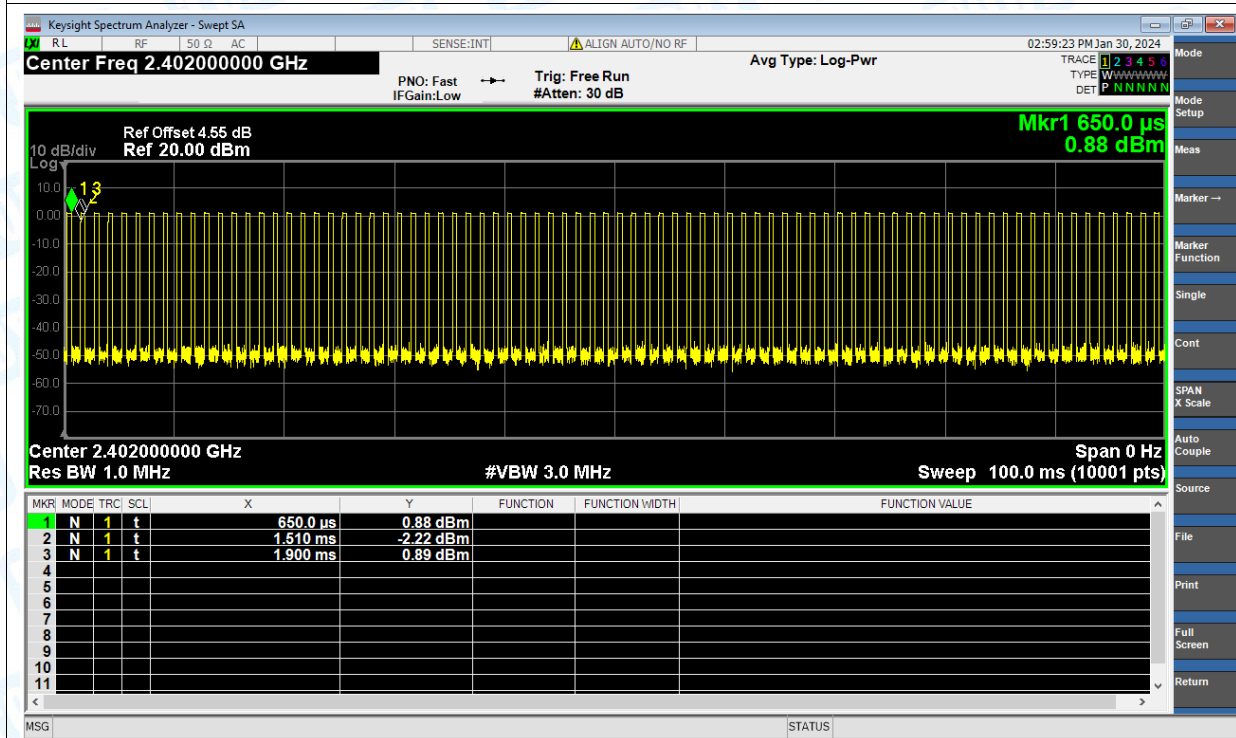
General Description of EUT	
Product Name:	OPEN EAR HEADPHONE
Test Model:	N2
Sample ID:	202401-0262-1-2#
Environmental Conditions	
Temperature:	24℃
Relative Humidity:	50%
Test Voltage:	DC 3.7V
Test Engineer:	Zhouzhen
Note: For a more detailed features description, please refer to the report TBR-C-202401-0262-2 The report only show the worst case data.	

Duty Cycle

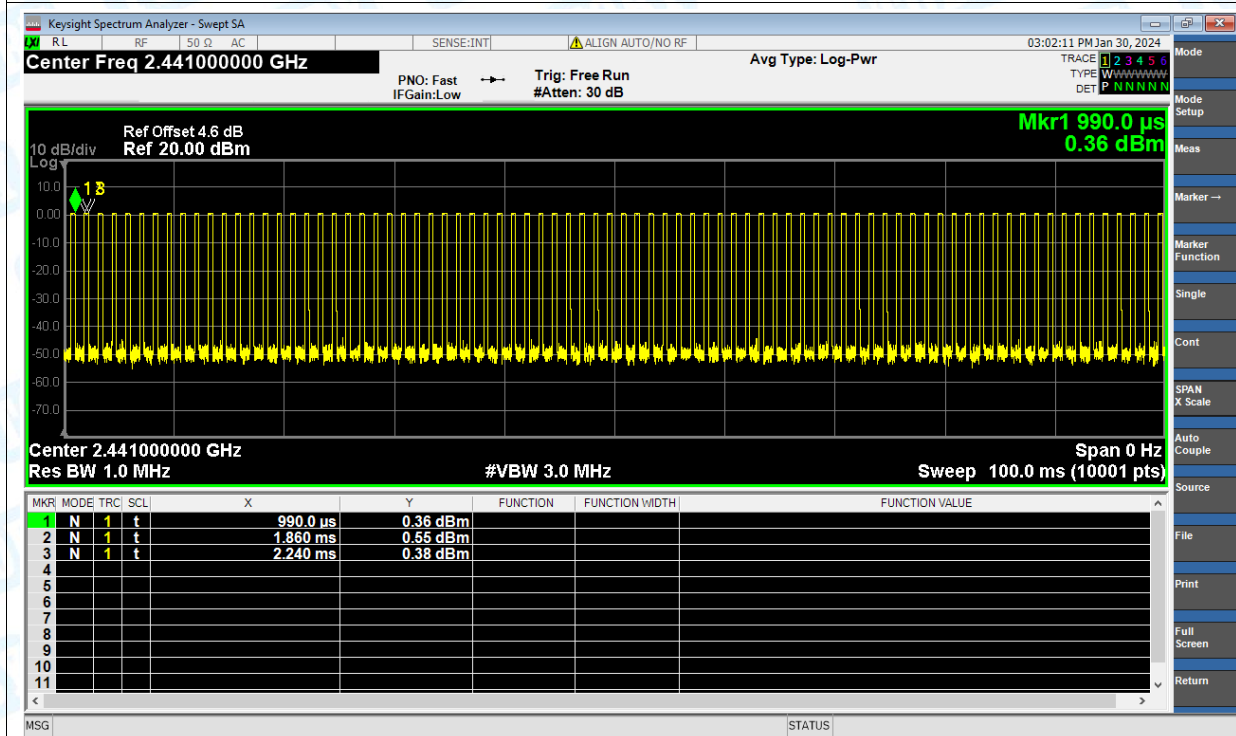
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	31.2	5.06	2.56
NVNT	1-DH1	2441	Ant1	30.4	5.17	2.63
NVNT	1-DH1	2480	Ant1	30.4	5.17	2.63
NVNT	2-DH1	2402	Ant1	32	4.95	2.5
NVNT	2-DH1	2441	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2480	Ant1	31.2	5.06	2.56
NVNT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

Test Graphs

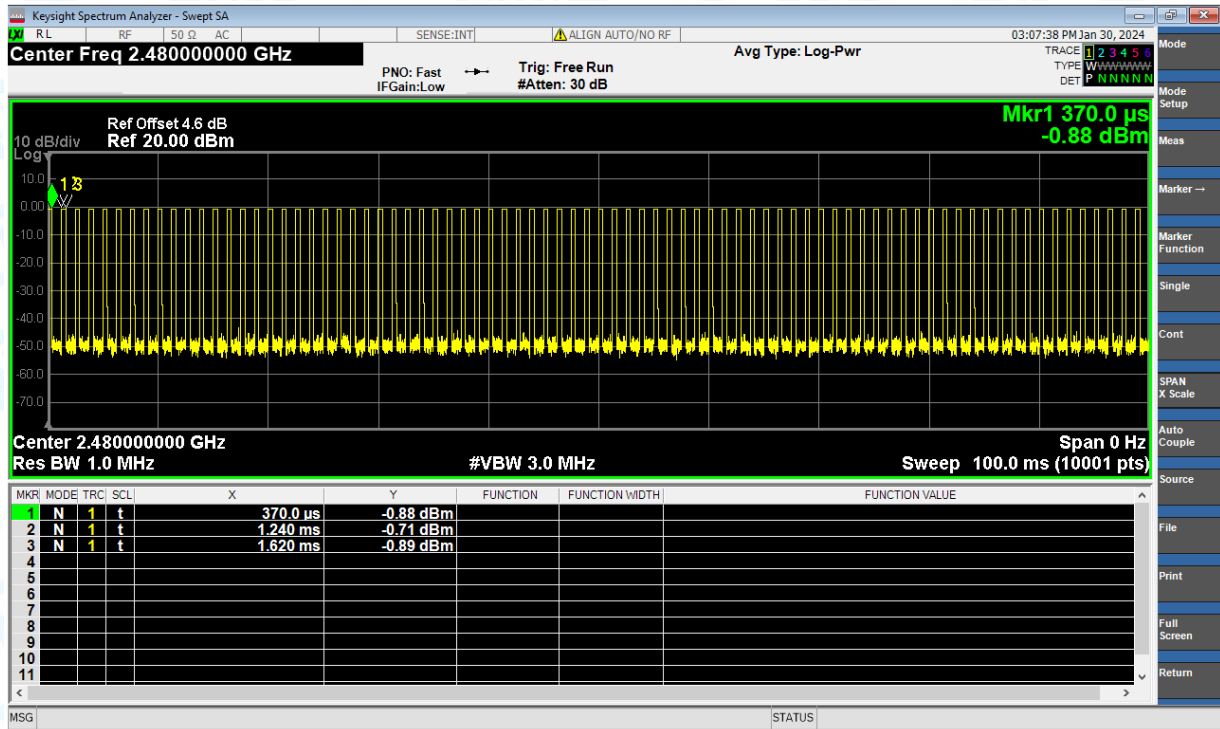
Duty Cycle NVNT 1-DH1 2402MHz Ant1



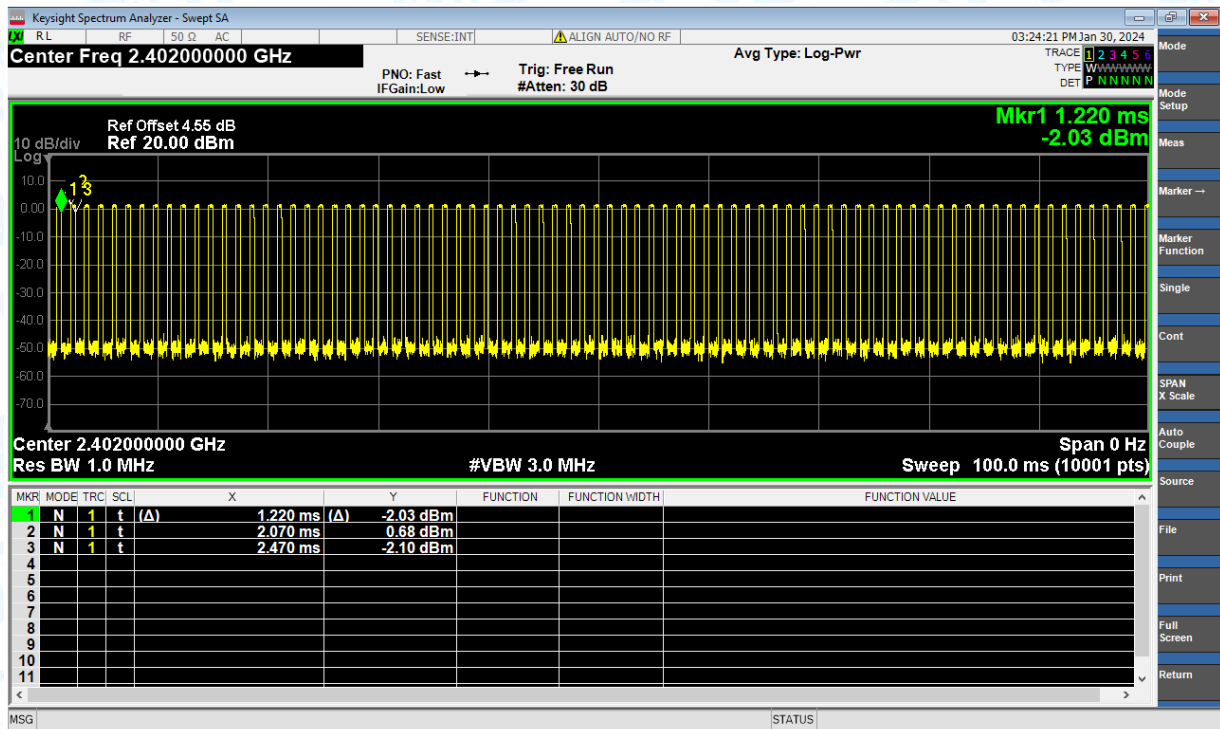
Duty Cycle NVNT 1-DH1 2441MHz Ant1



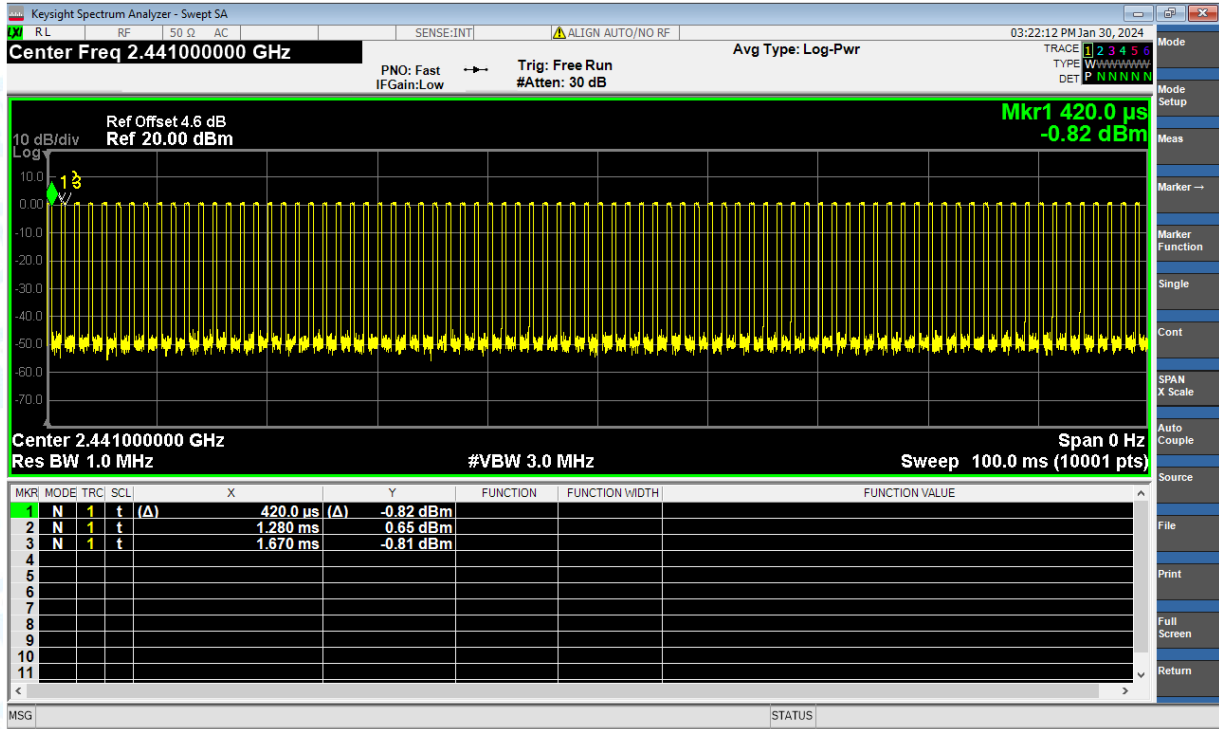
Duty Cycle NVNT 1-DH1 2480MHz Ant1



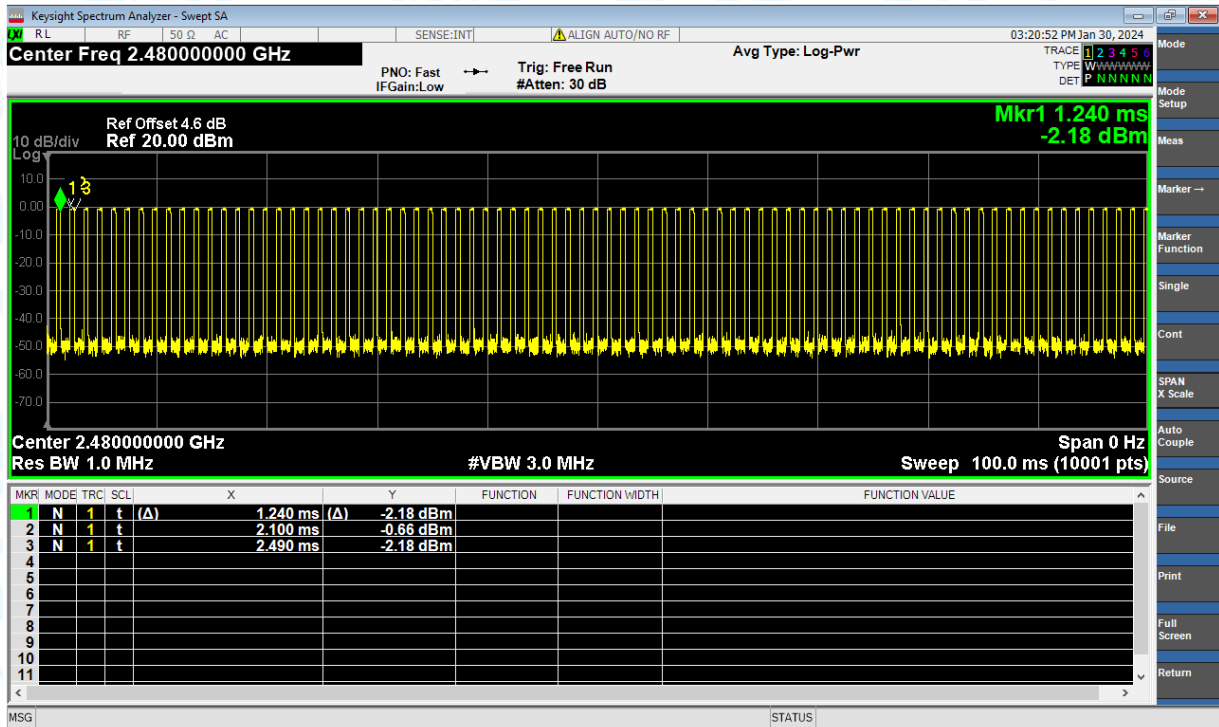
Duty Cycle NVNT 2-DH1 2402MHz Ant1



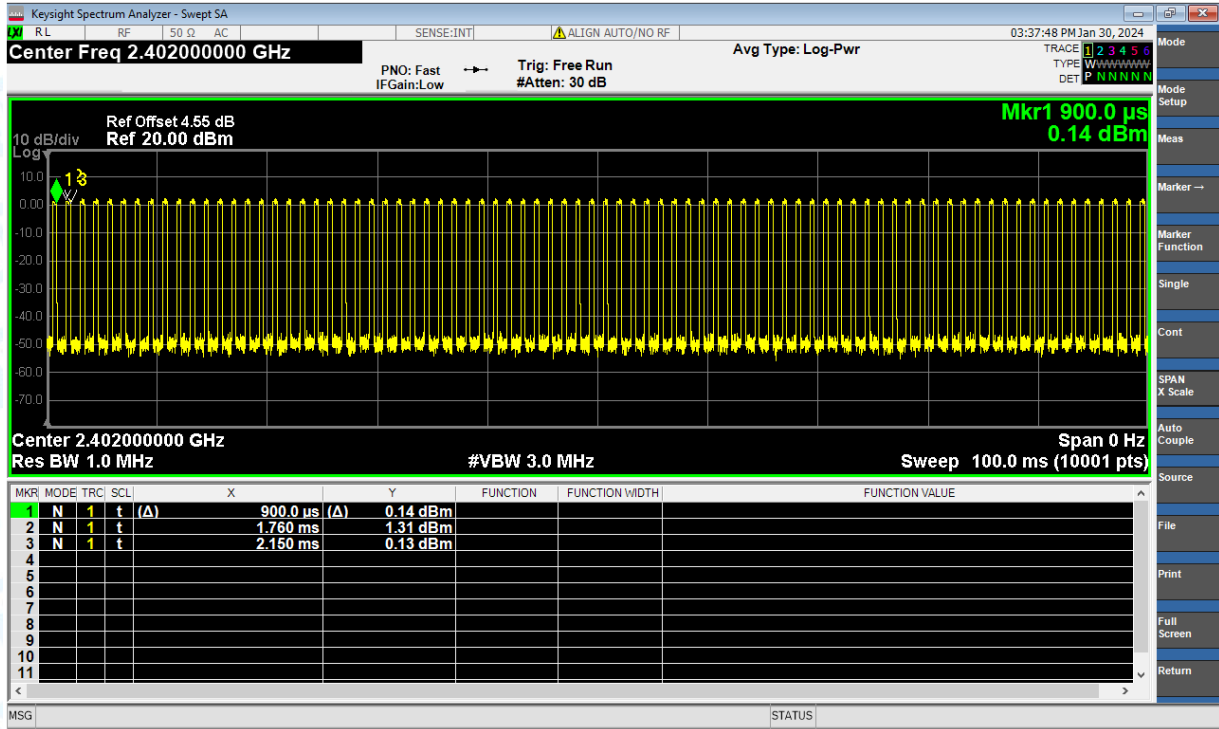
Duty Cycle NVNT 2-DH1 2441MHz Ant1



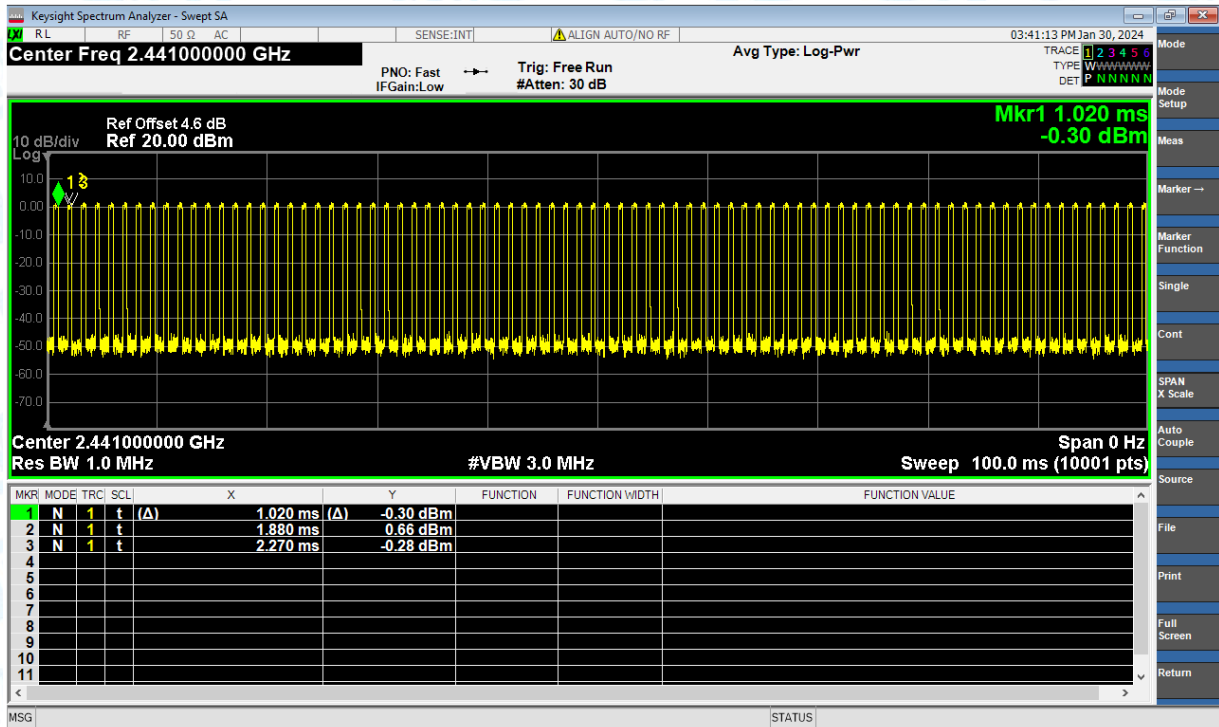
Duty Cycle NVNT 2-DH1 2480MHz Ant1

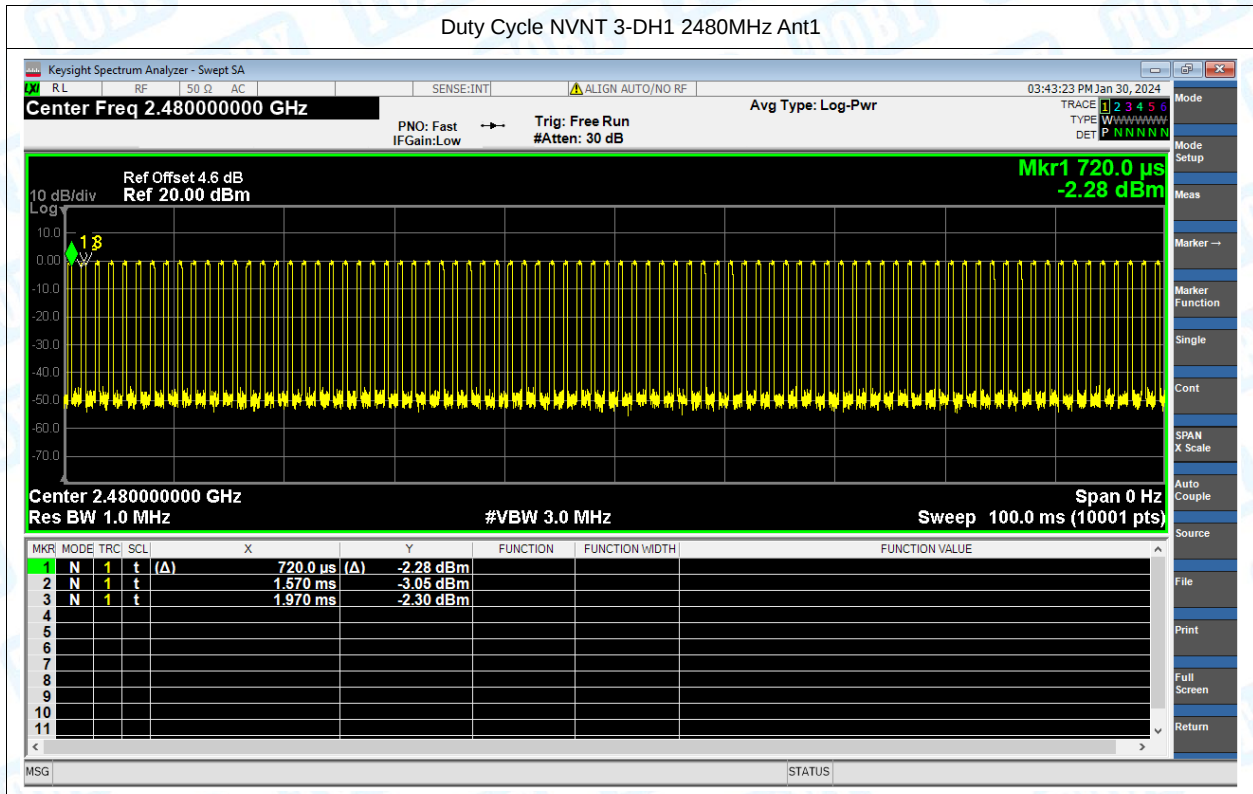


Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1



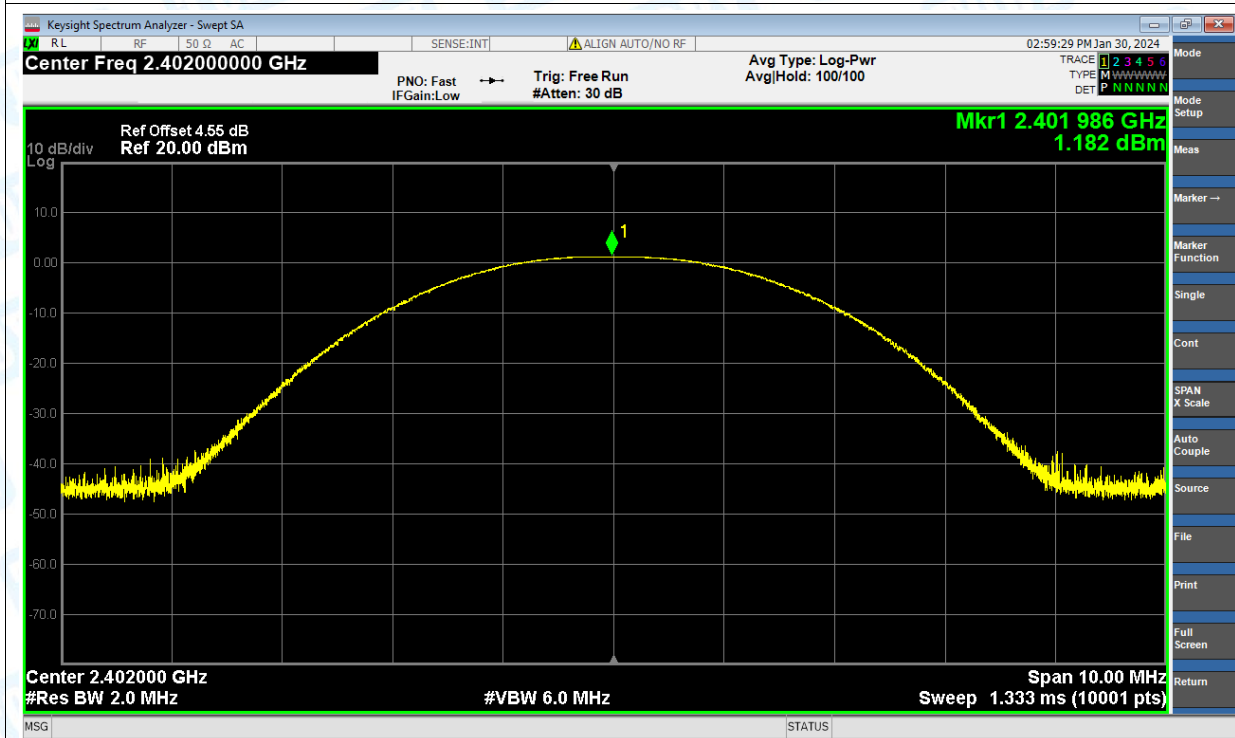


Maximum Conducted Output Power

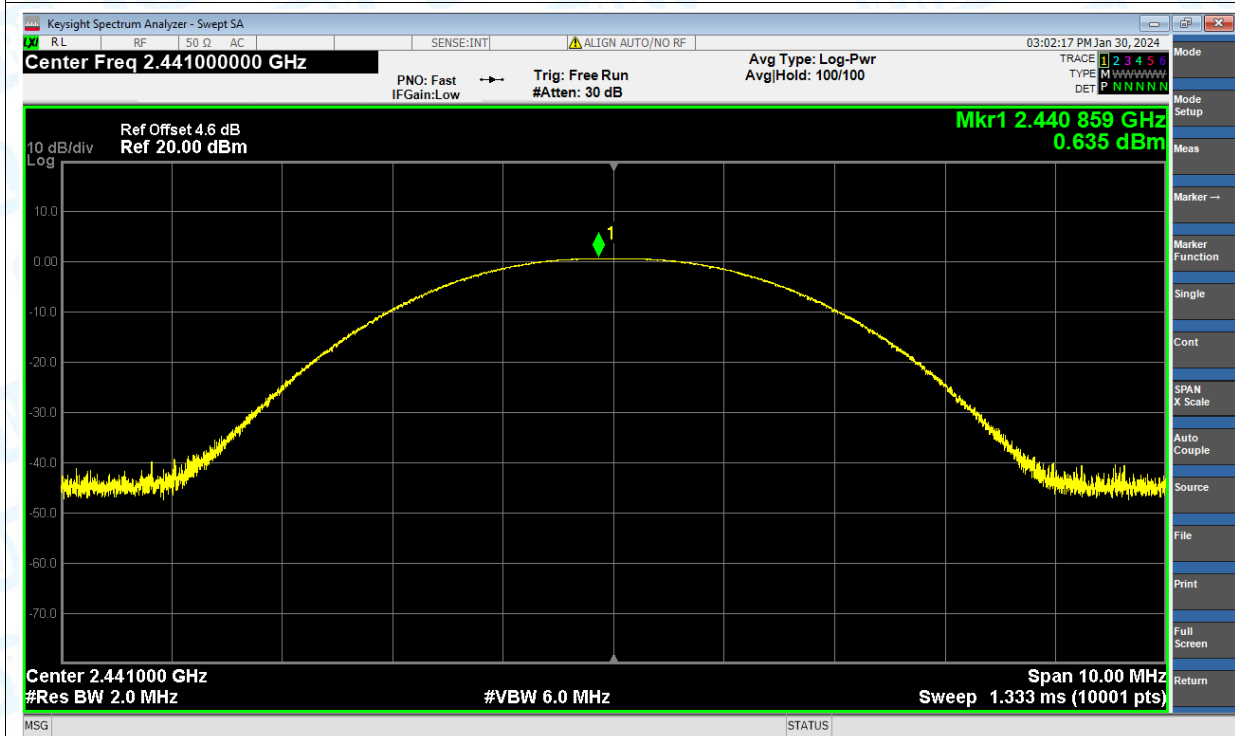
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	1.182	21	Pass
NVNT	1-DH1	2441	Ant1	0.635	21	Pass
NVNT	1-DH1	2480	Ant1	-0.599	21	Pass
NVNT	2-DH1	2402	Ant1	2.143	21	Pass
NVNT	2-DH1	2441	Ant1	1.441	21	Pass
NVNT	2-DH1	2480	Ant1	0.152	21	Pass
NVNT	3-DH1	2402	Ant1	2.751	21	Pass
NVNT	3-DH1	2441	Ant1	2.071	21	Pass
NVNT	3-DH1	2480	Ant1	0.831	21	Pass

Test Graphs

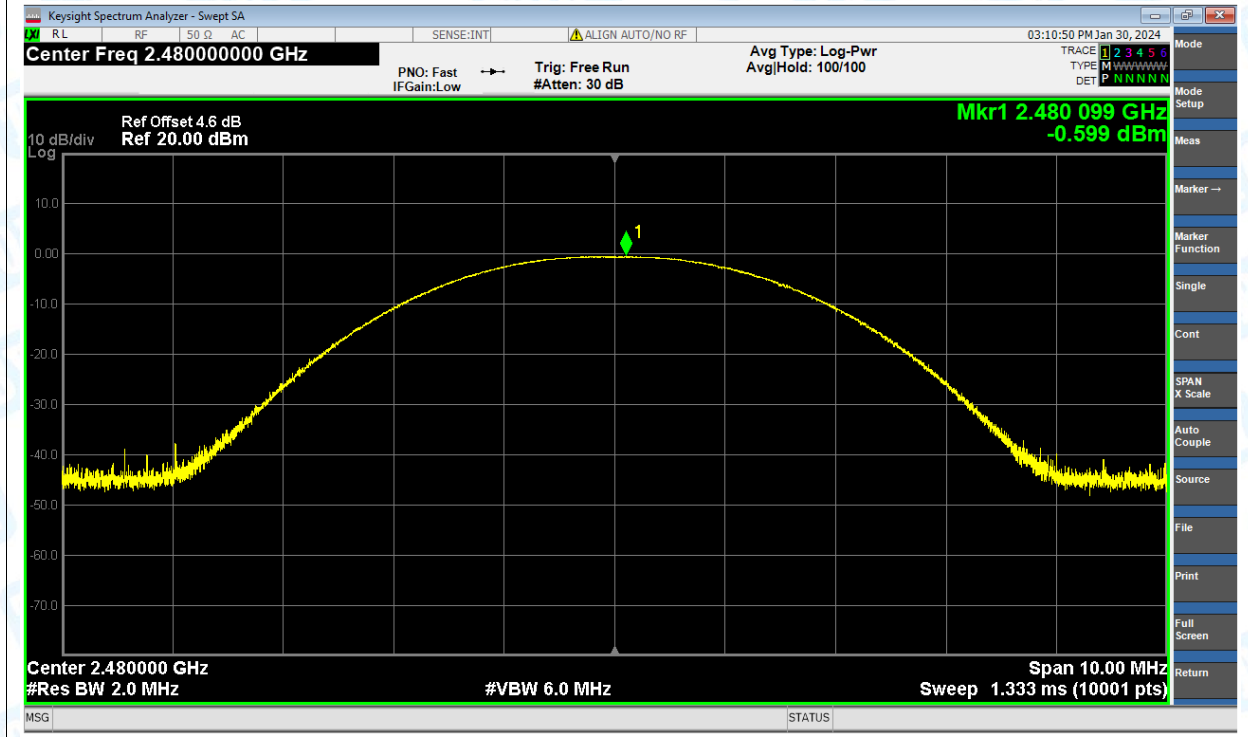
Power NVNT 1-DH1 2402MHz Ant1



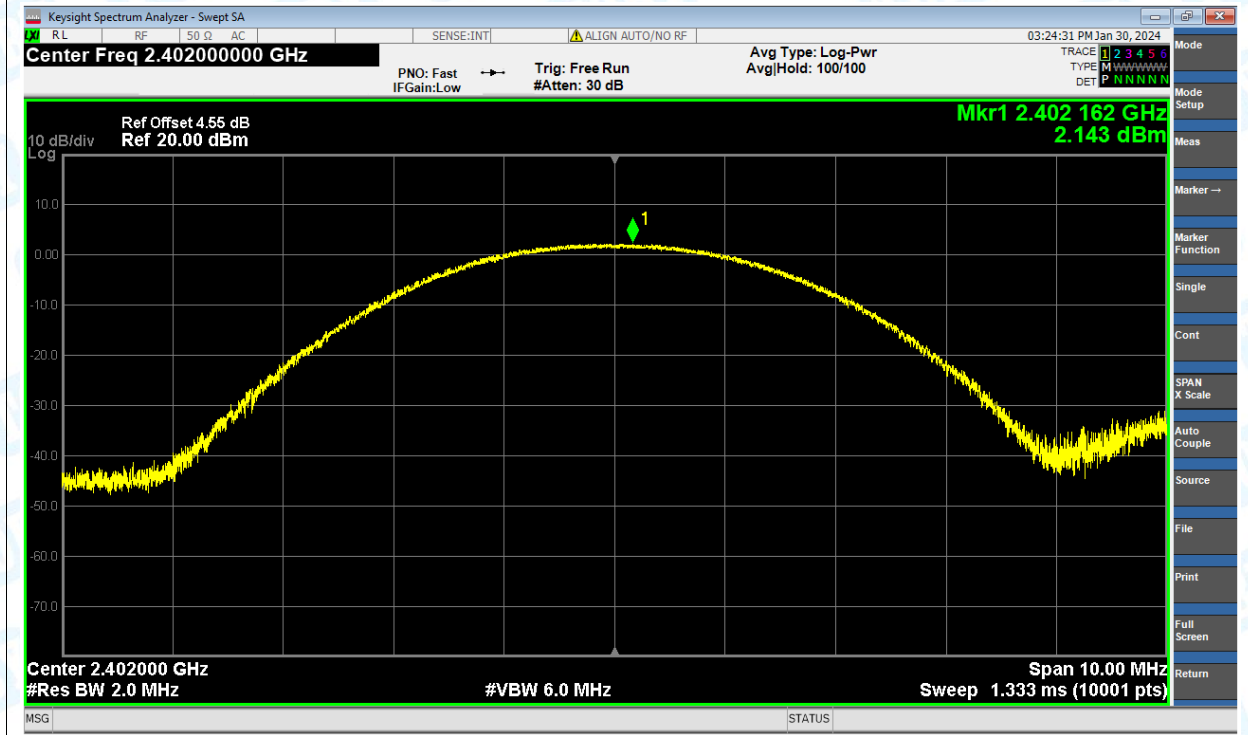
Power NVNT 1-DH1 2441MHz Ant1



Power NVNT 1-DH1 2480MHz Ant1



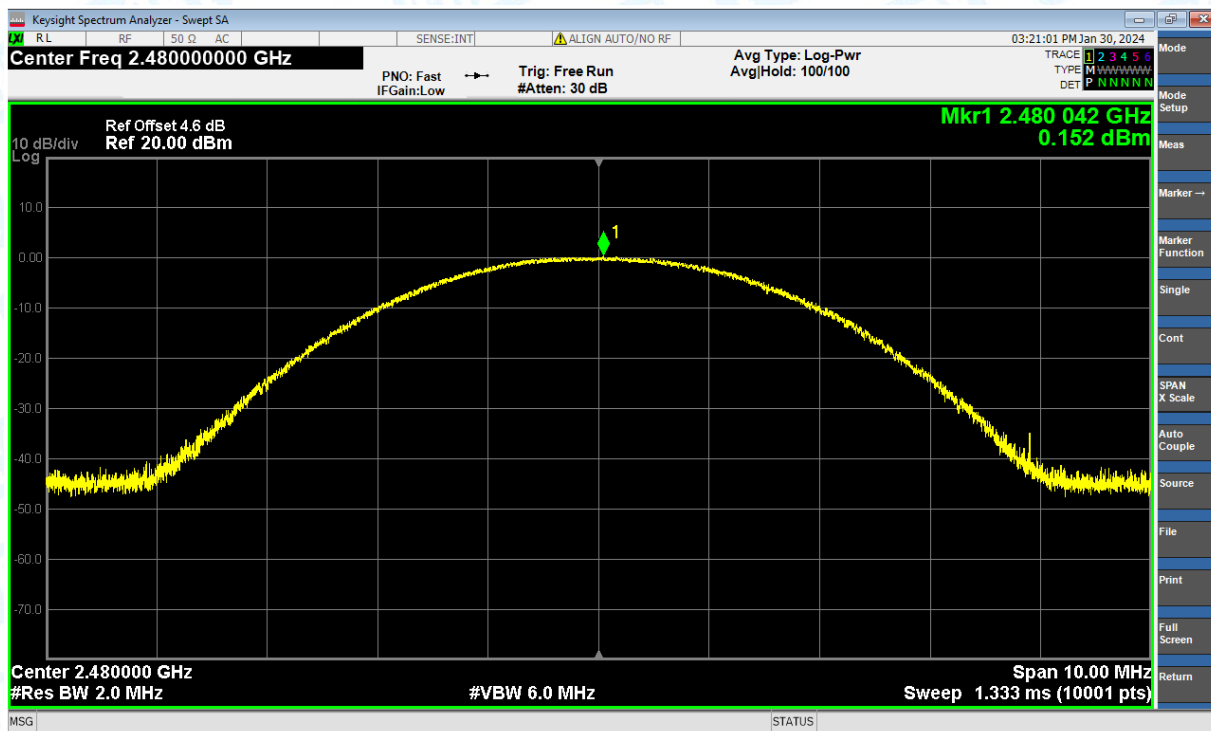
Power NVNT 2-DH1 2402MHz Ant1



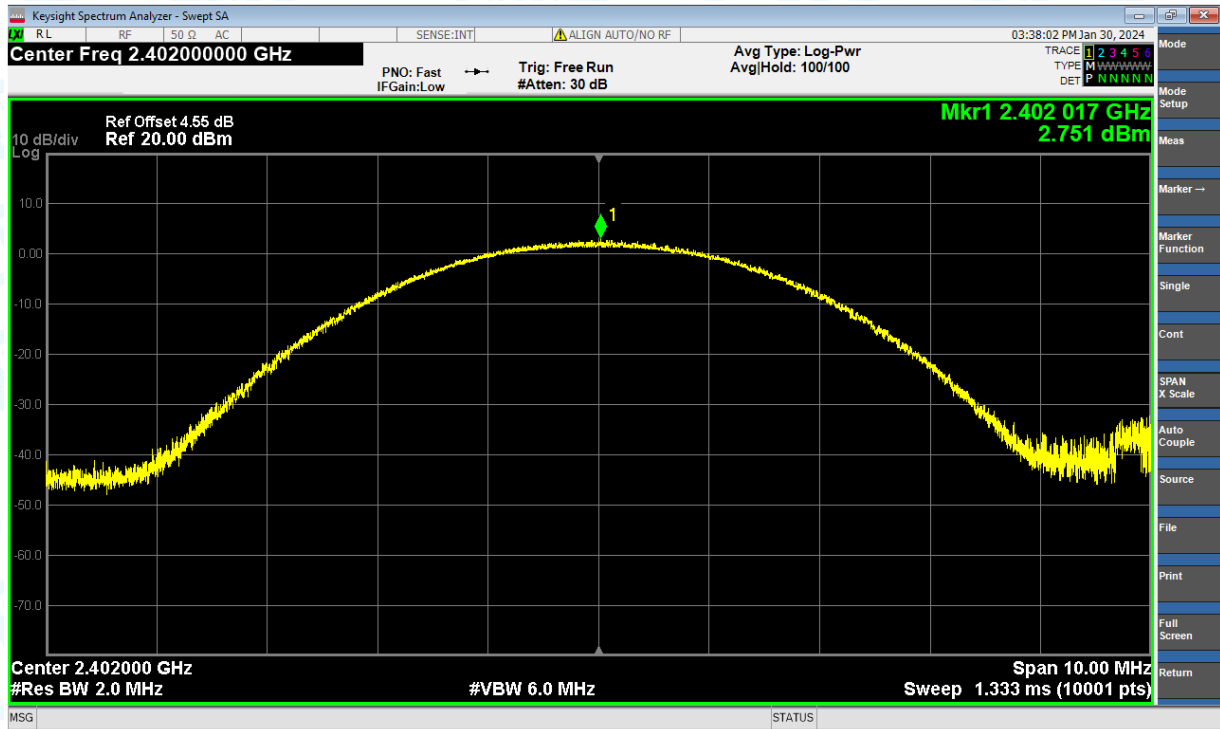
Power NVNT 2-DH1 2441MHz Ant1



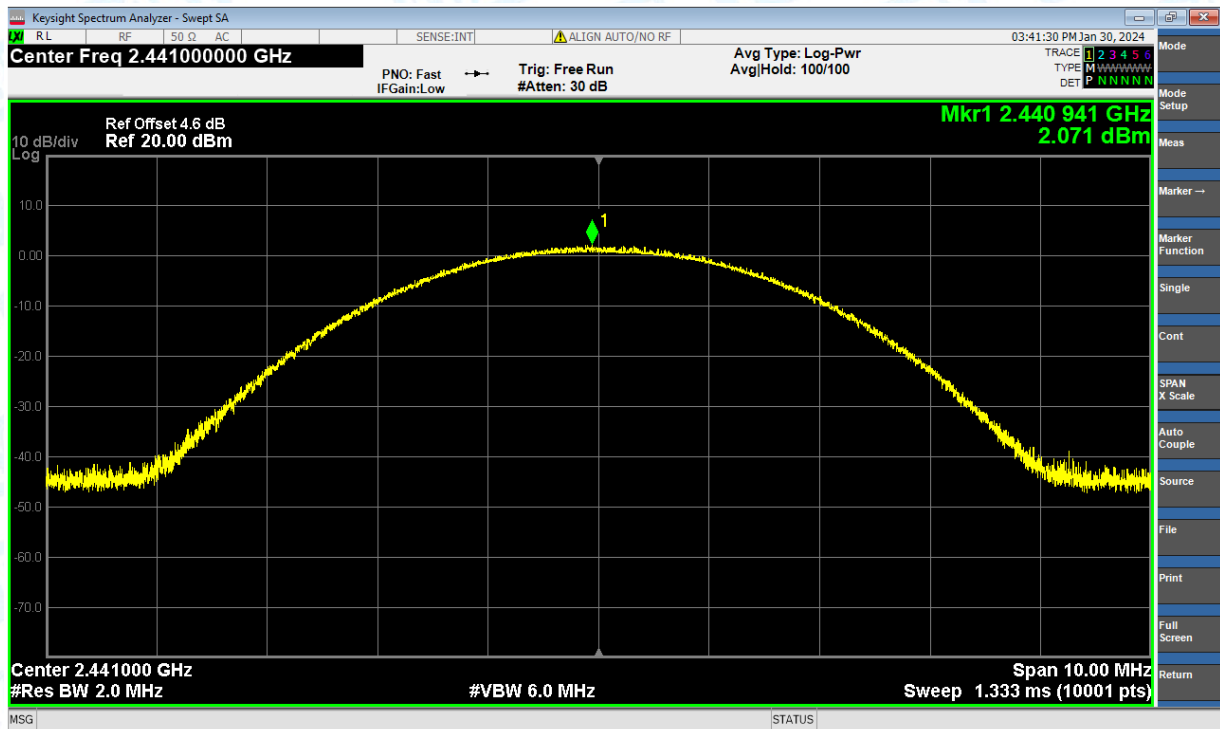
Power NVNT 2-DH1 2480MHz Ant1



Power NVNT 3-DH1 2402MHz Ant1



Power NVNT 3-DH1 2441MHz Ant1



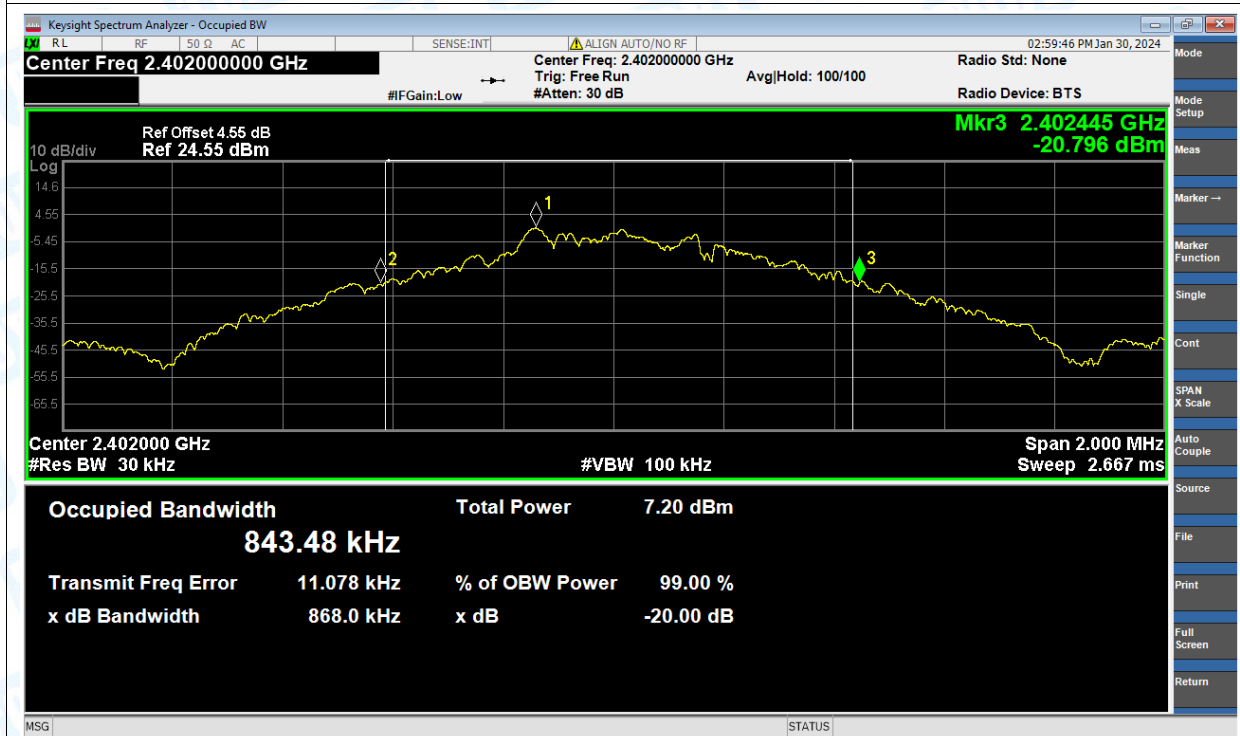


-20dB Bandwidth

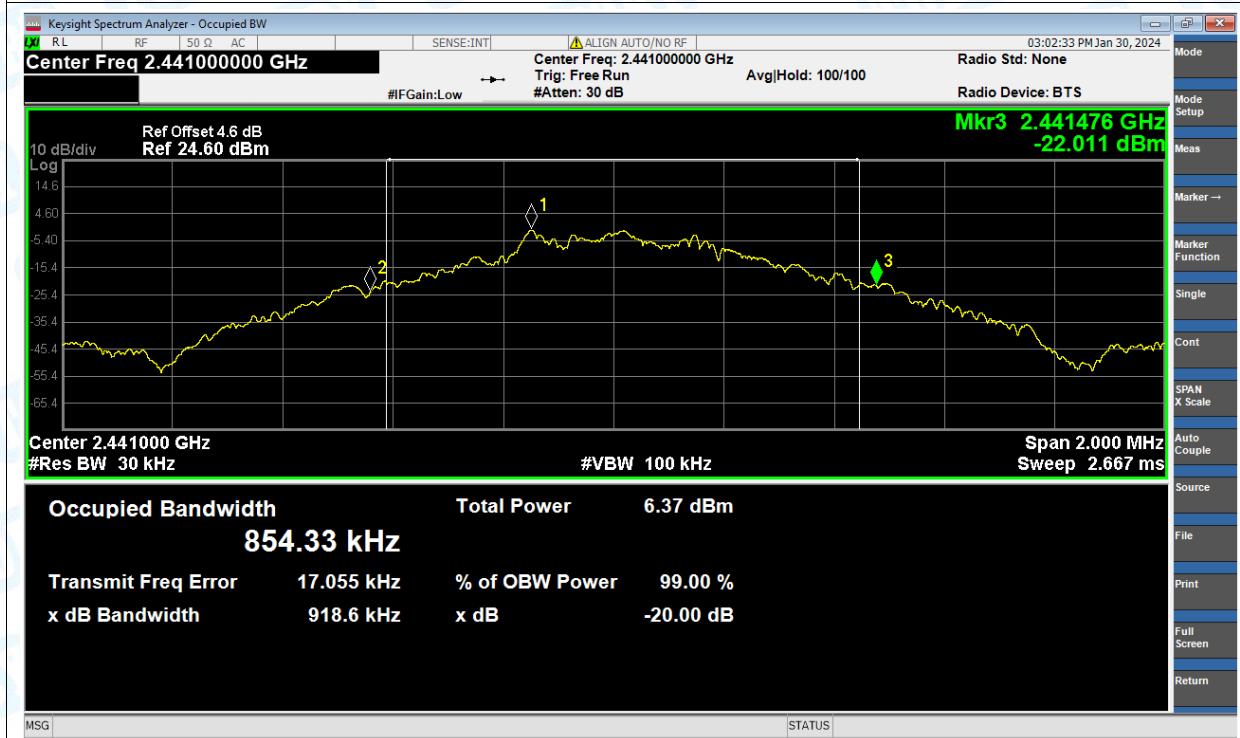
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.87	0	Pass
NVNT	1-DH1	2441	Ant1	0.92	0	Pass
NVNT	1-DH1	2480	Ant1	0.91	0	Pass
NVNT	2-DH1	2402	Ant1	1.26	0	Pass
NVNT	2-DH1	2441	Ant1	1.26	0	Pass
NVNT	2-DH1	2480	Ant1	1.27	0	Pass
NVNT	3-DH1	2402	Ant1	1.22	0	Pass
NVNT	3-DH1	2441	Ant1	1.22	0	Pass
NVNT	3-DH1	2480	Ant1	1.25	0	Pass

Test Graphs

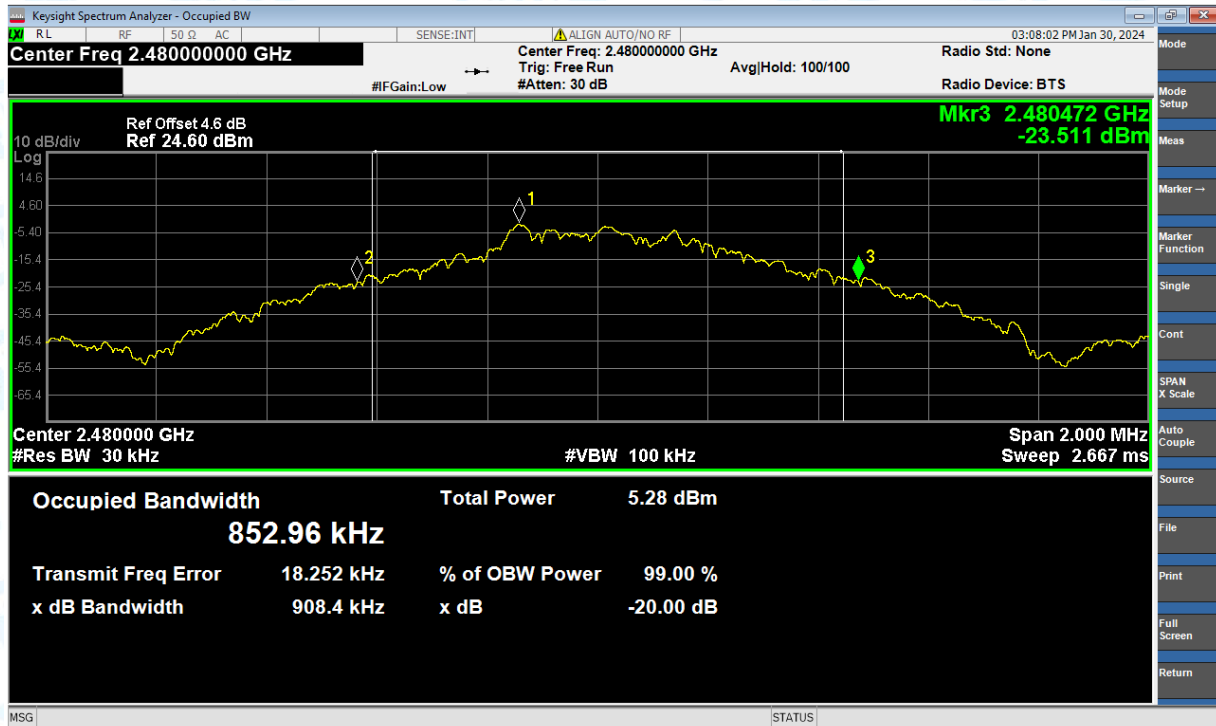
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



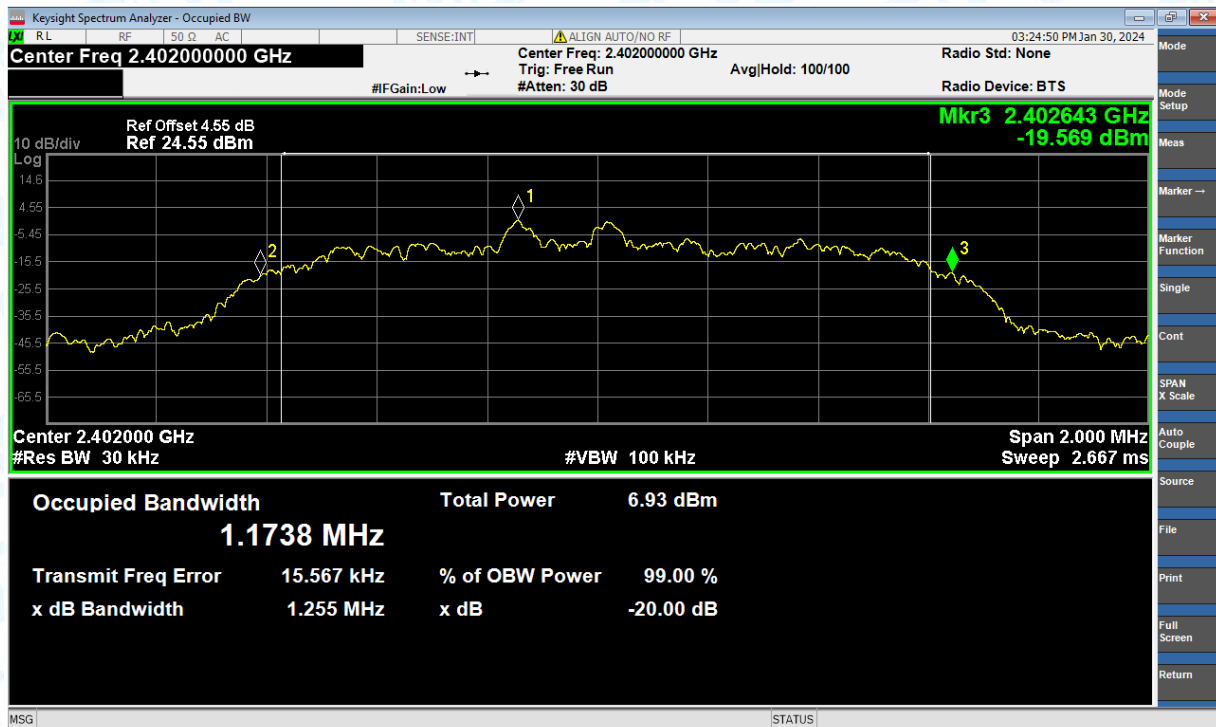
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



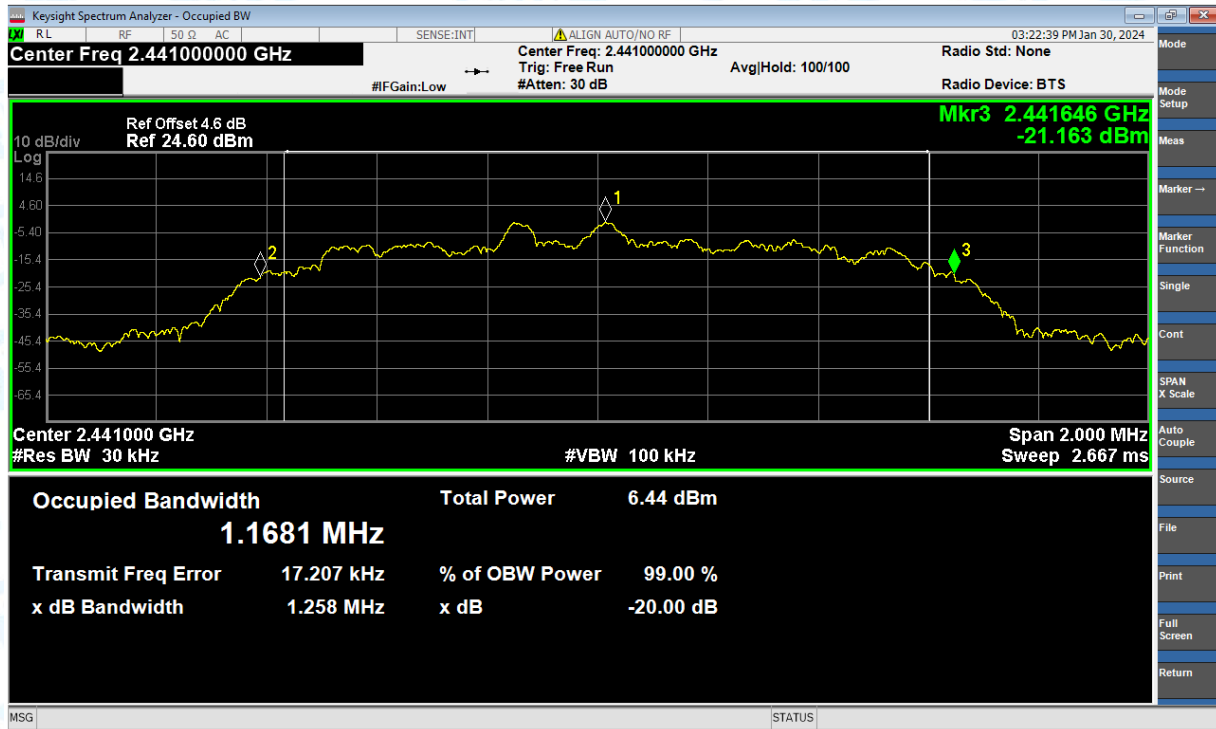
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



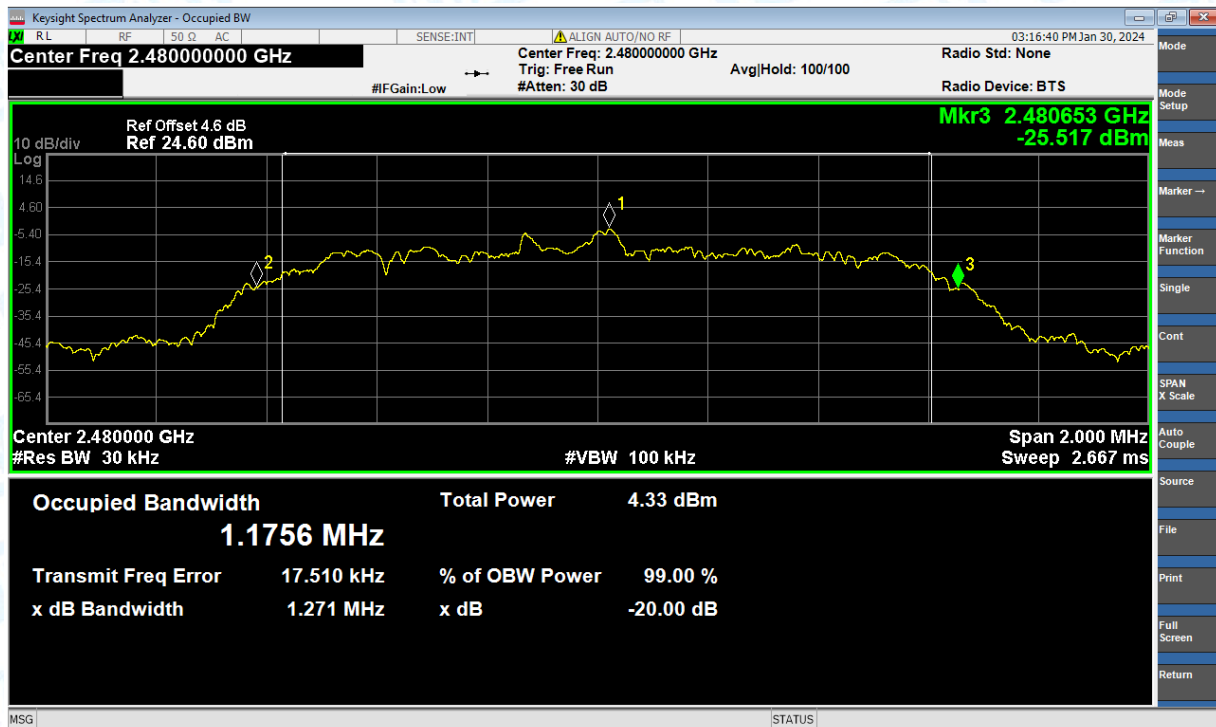
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



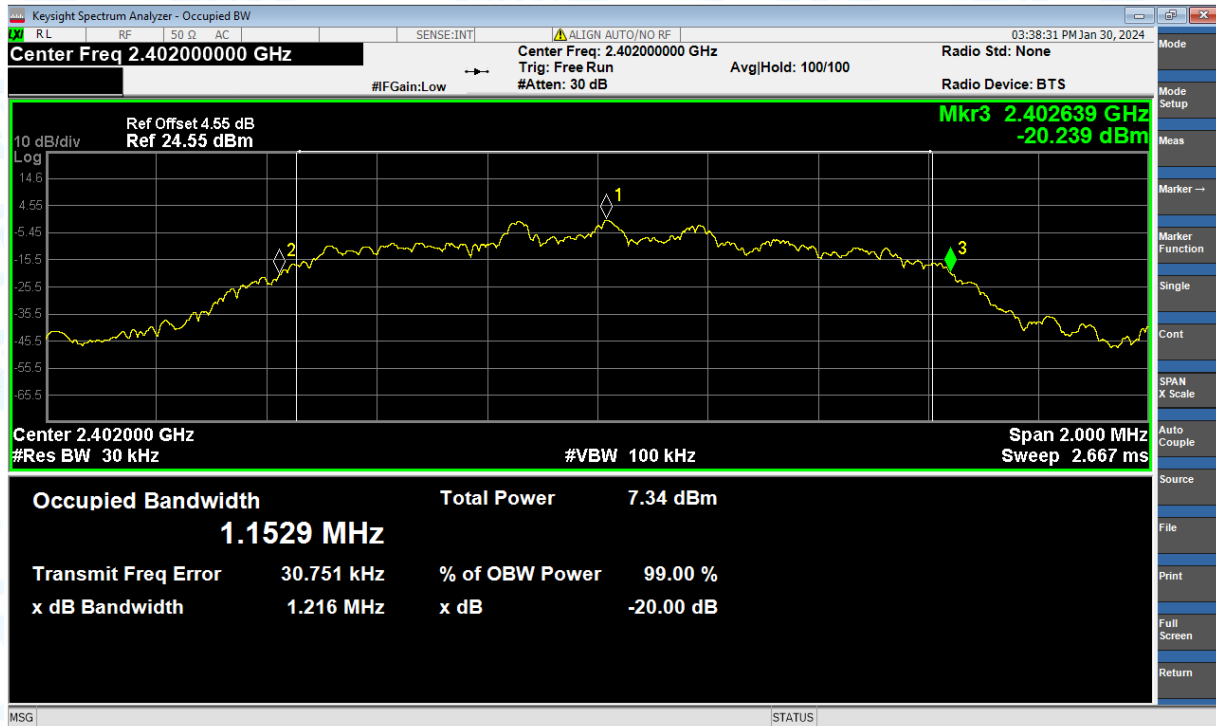
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



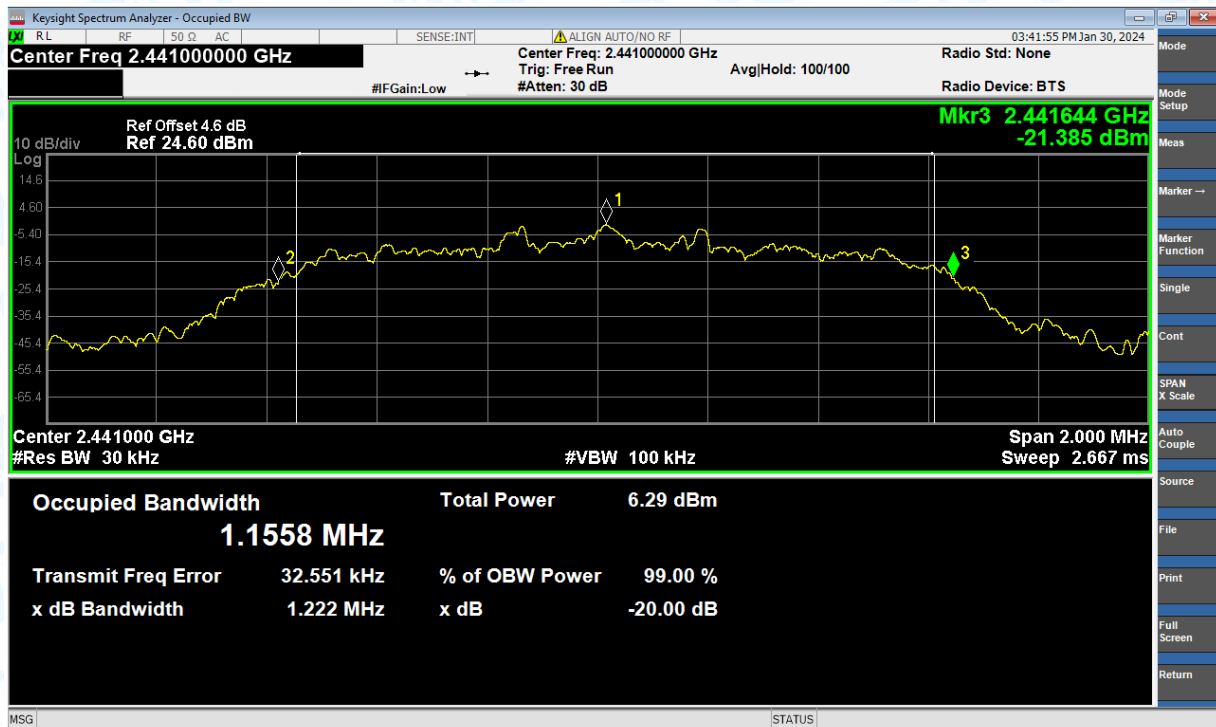
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

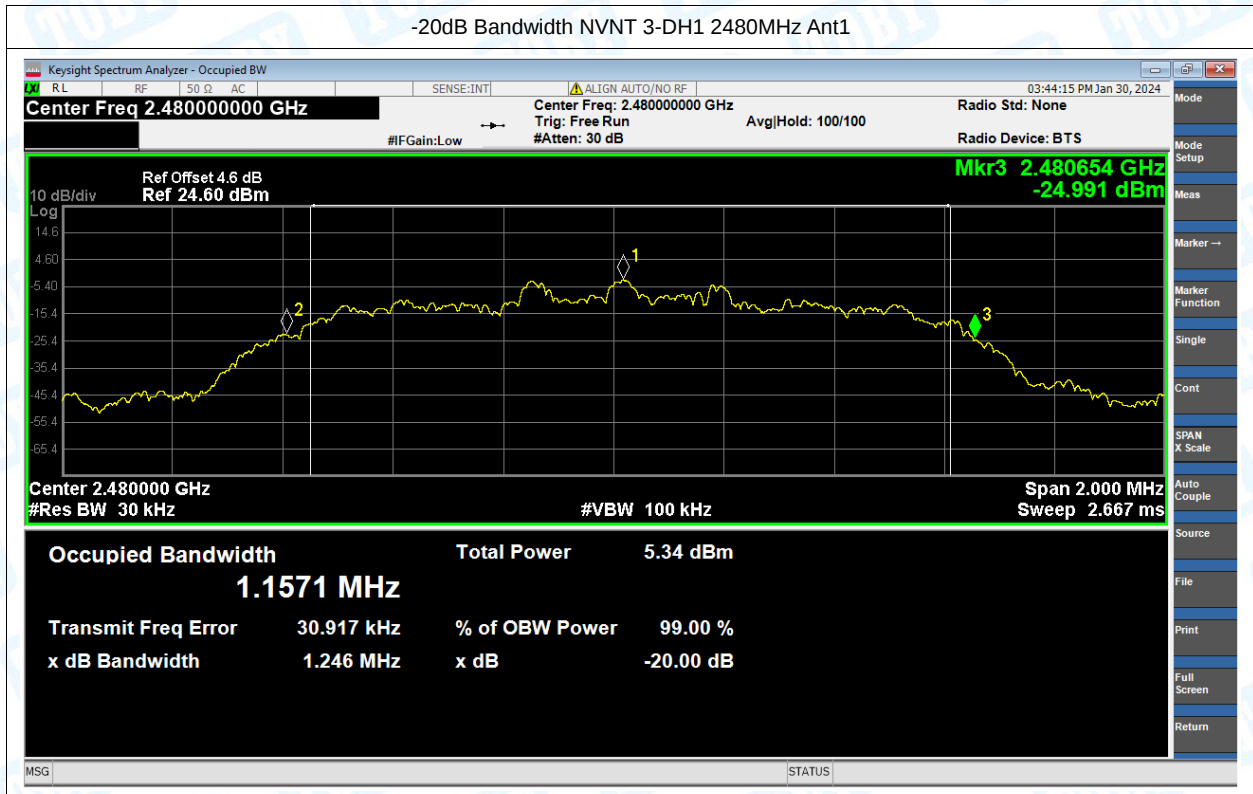


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



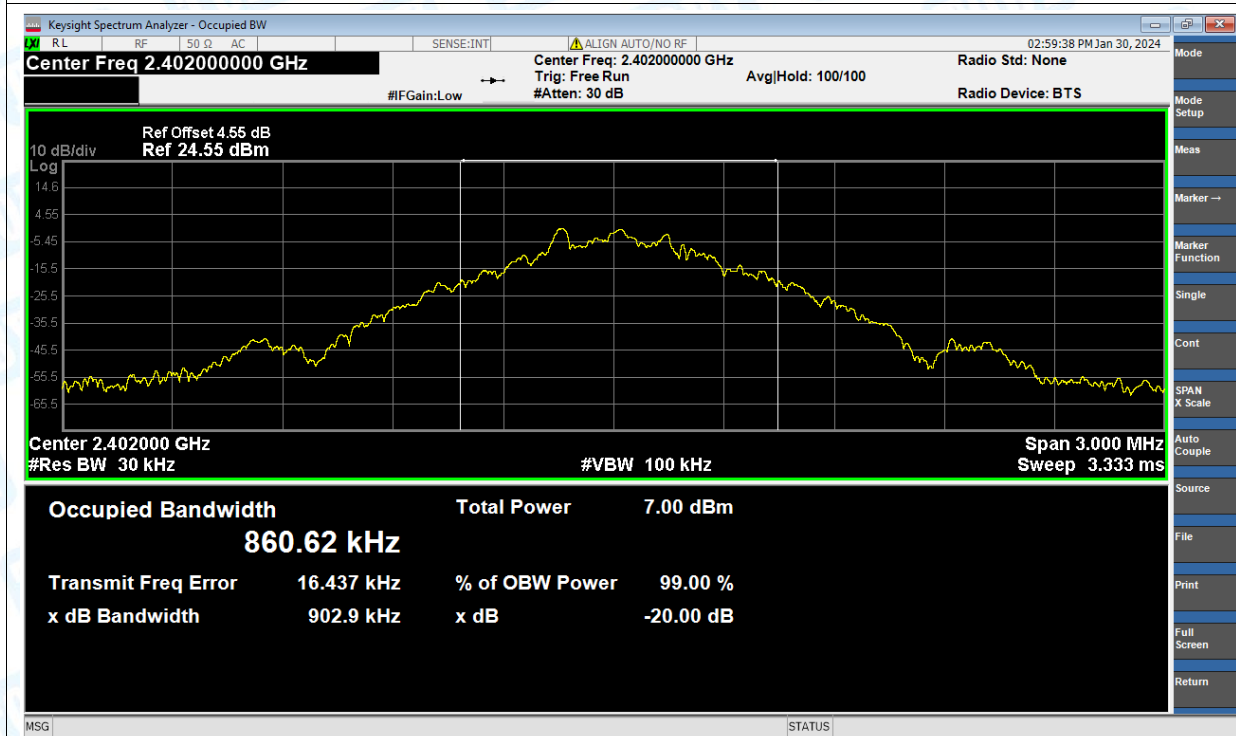


Occupied Channel Bandwidth

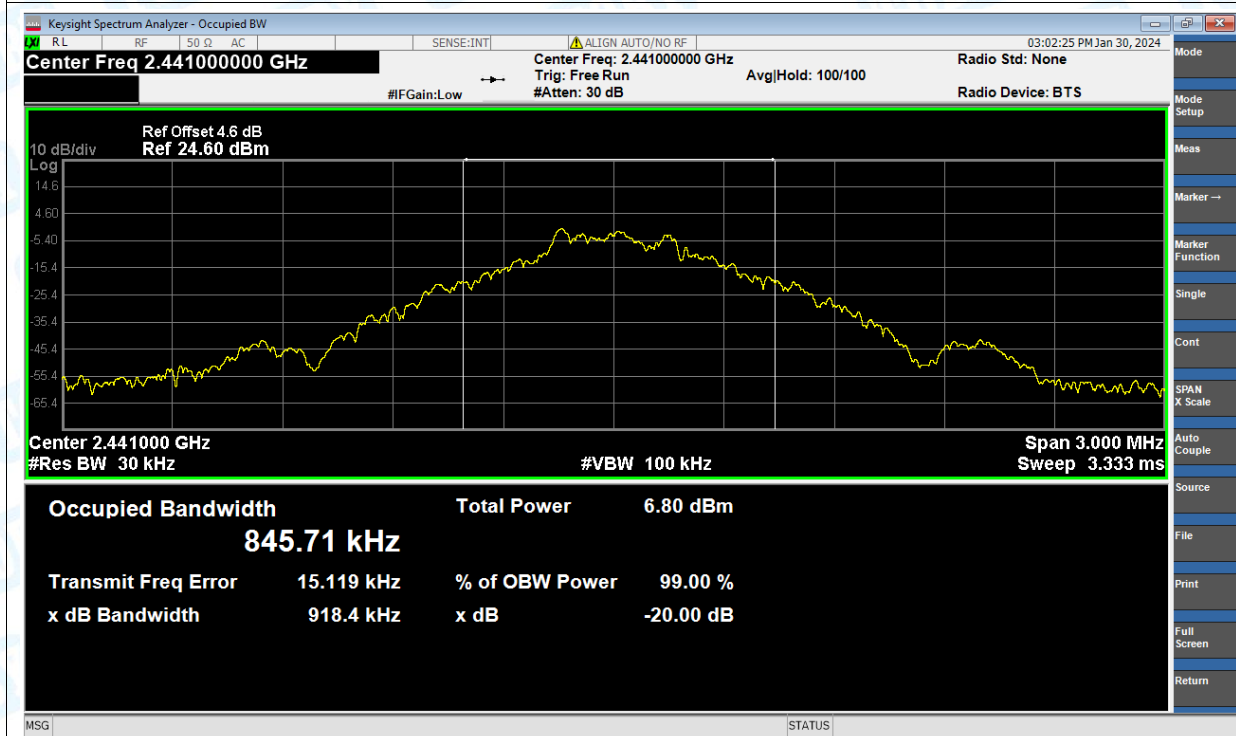
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.861
NVNT	1-DH1	2441	Ant1	0.846
NVNT	1-DH1	2480	Ant1	0.843
NVNT	2-DH1	2402	Ant1	1.181
NVNT	2-DH1	2441	Ant1	1.172
NVNT	2-DH1	2480	Ant1	1.166
NVNT	3-DH1	2402	Ant1	1.155
NVNT	3-DH1	2441	Ant1	1.157
NVNT	3-DH1	2480	Ant1	1.159

Test Graphs

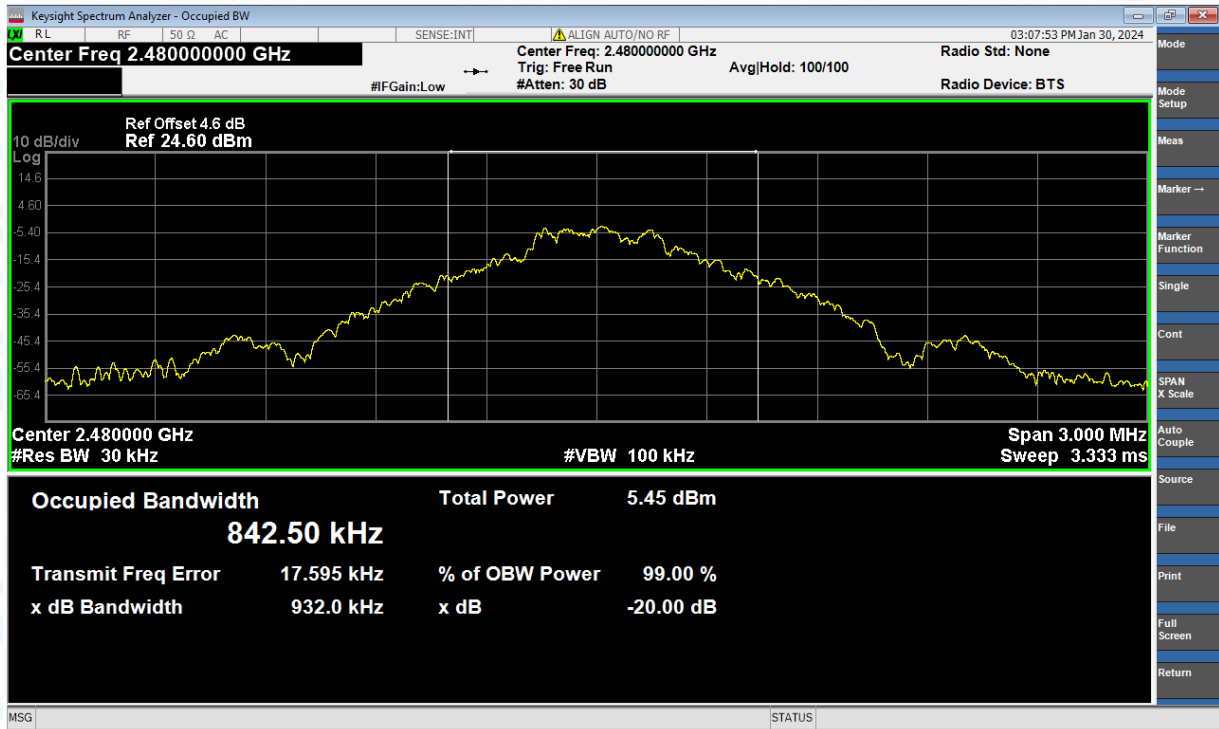
OBW NVNT 1-DH1 2402MHz Ant1



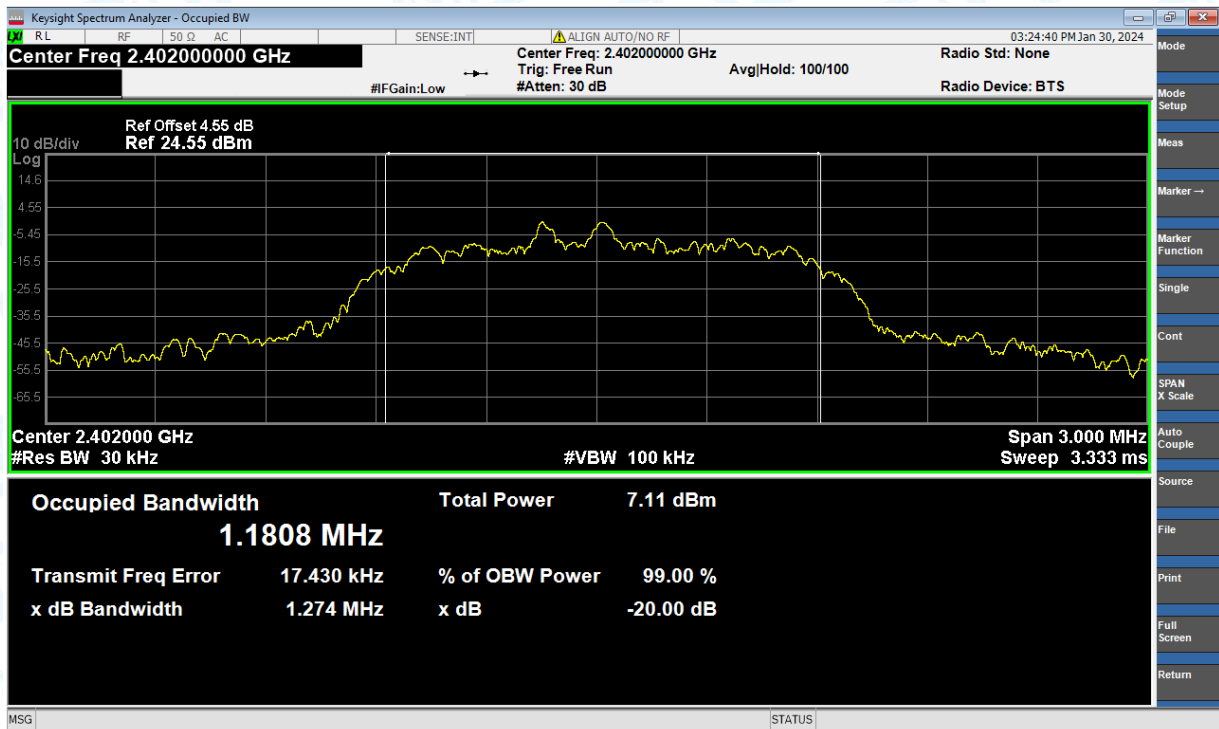
OBW NVNT 1-DH1 2441MHz Ant1



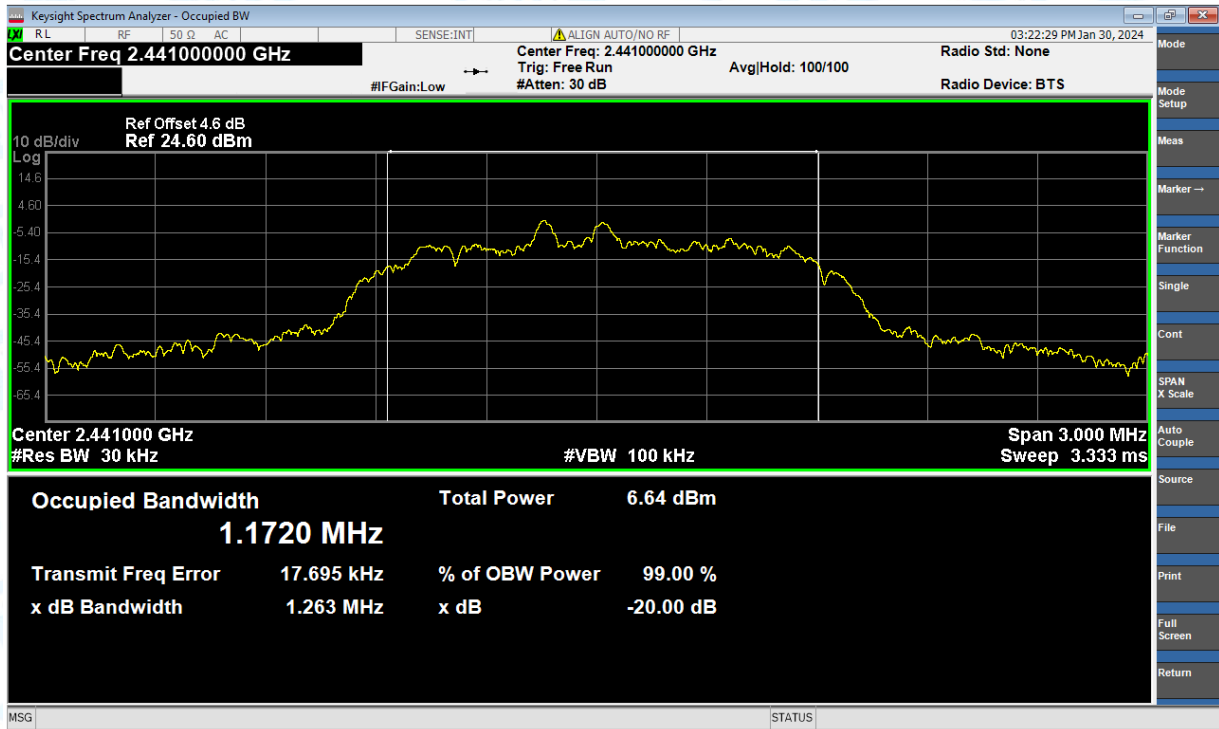
OBW NVNT 1-DH1 2480MHz Ant1



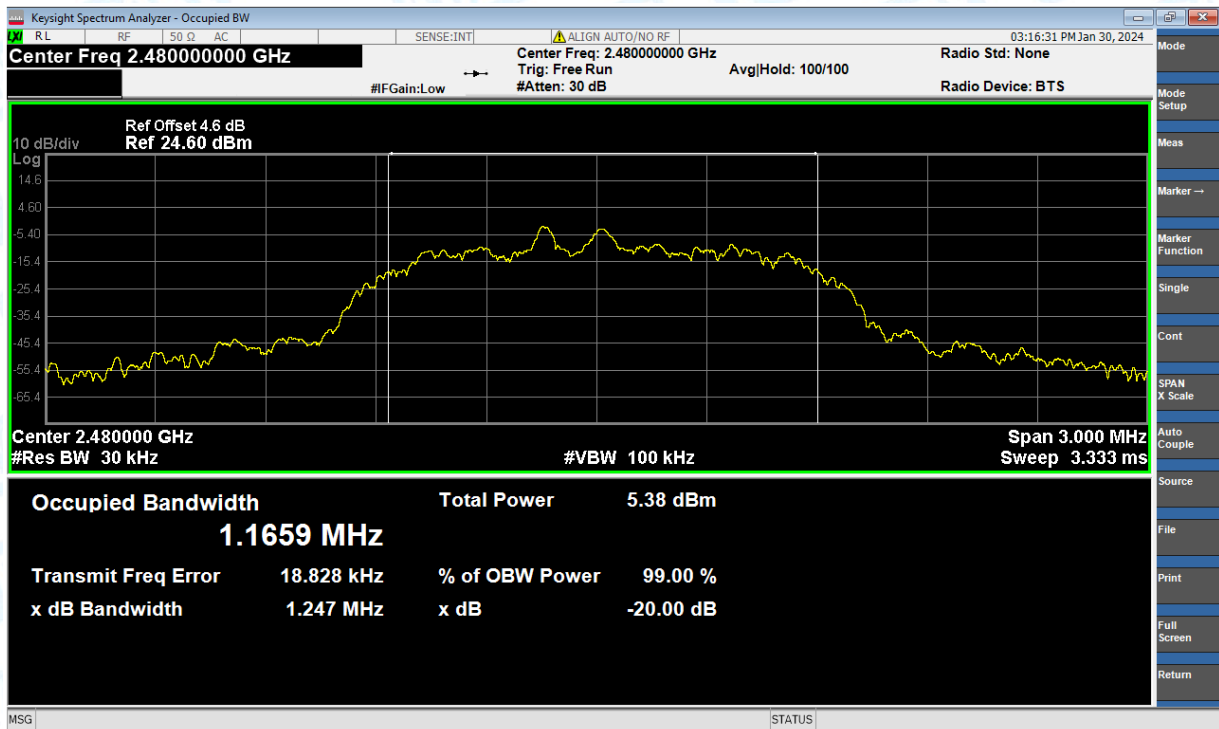
OBW NVNT 2-DH1 2402MHz Ant1



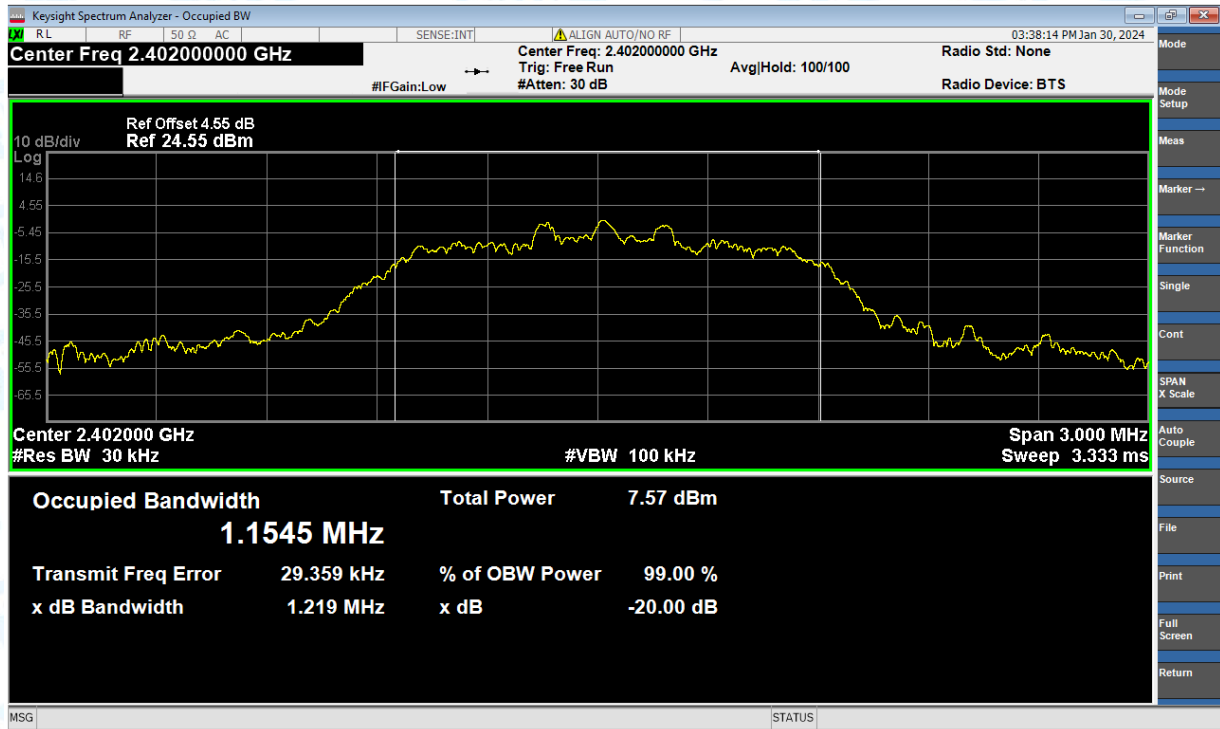
OBW NVNT 2-DH1 2441MHz Ant1



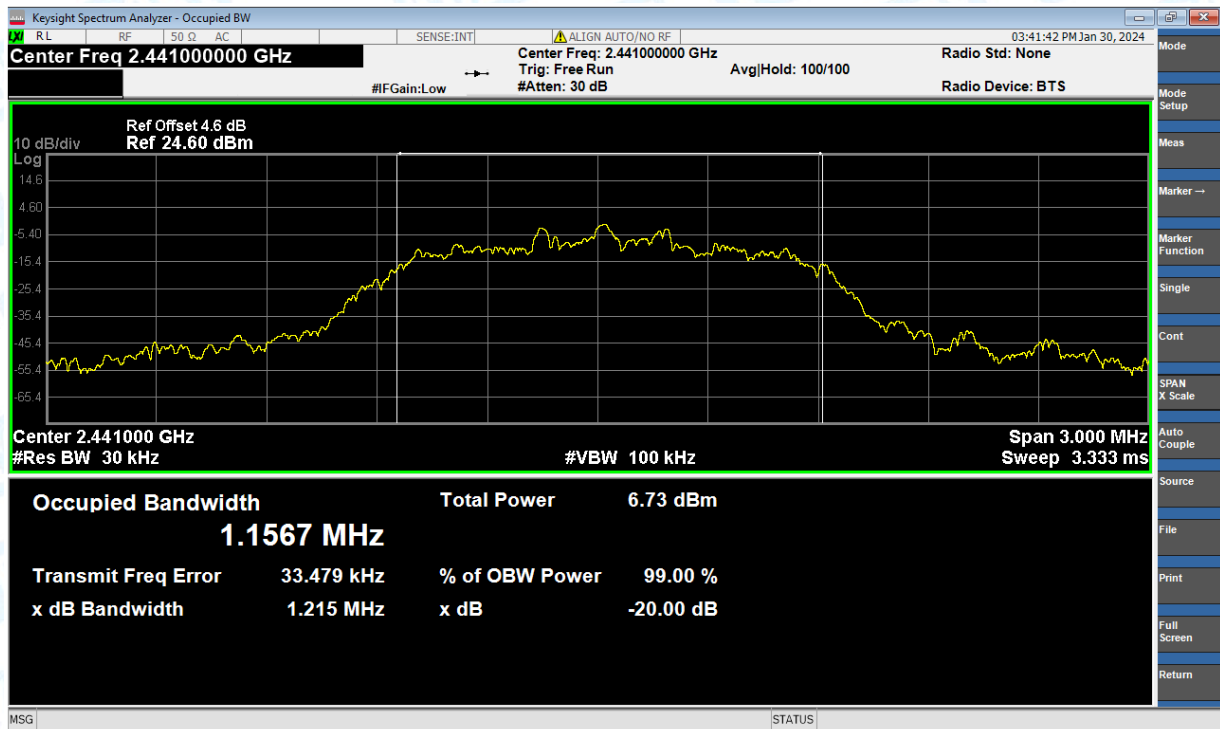
OBW NVNT 2-DH1 2480MHz Ant1

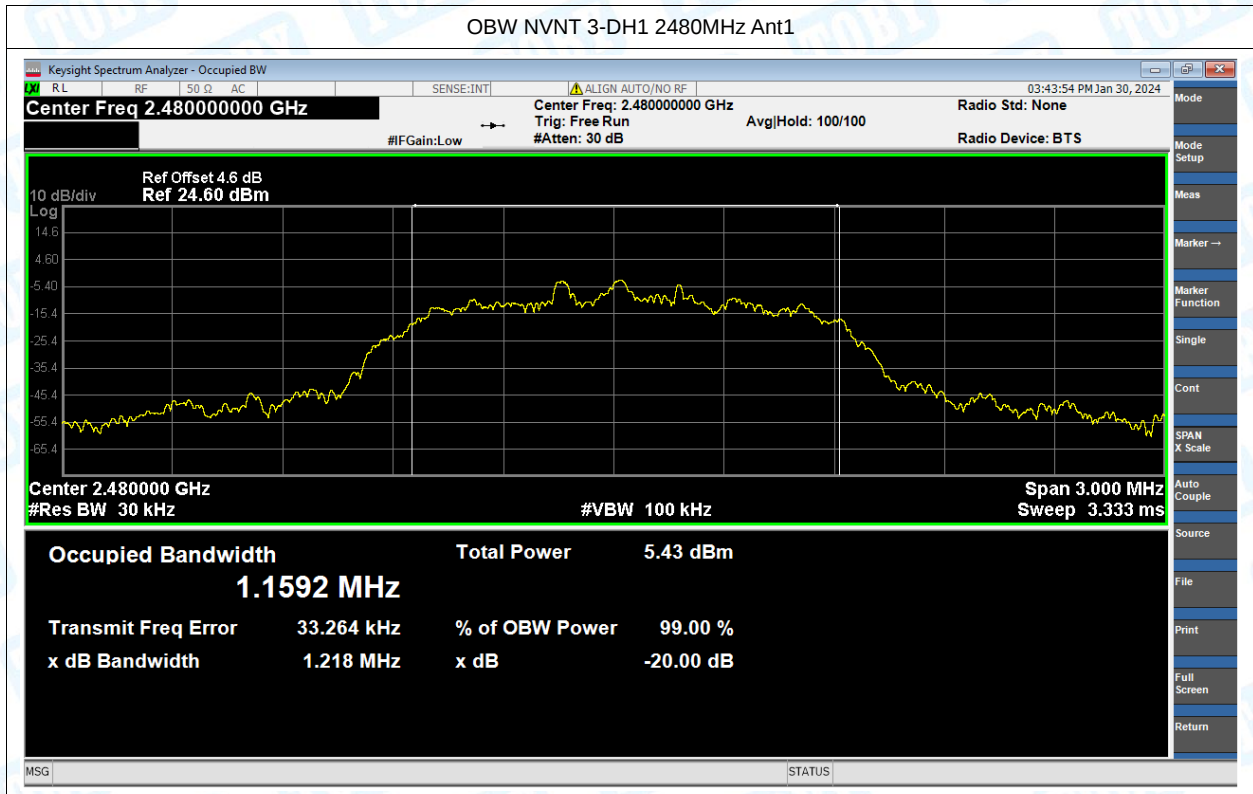


OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1



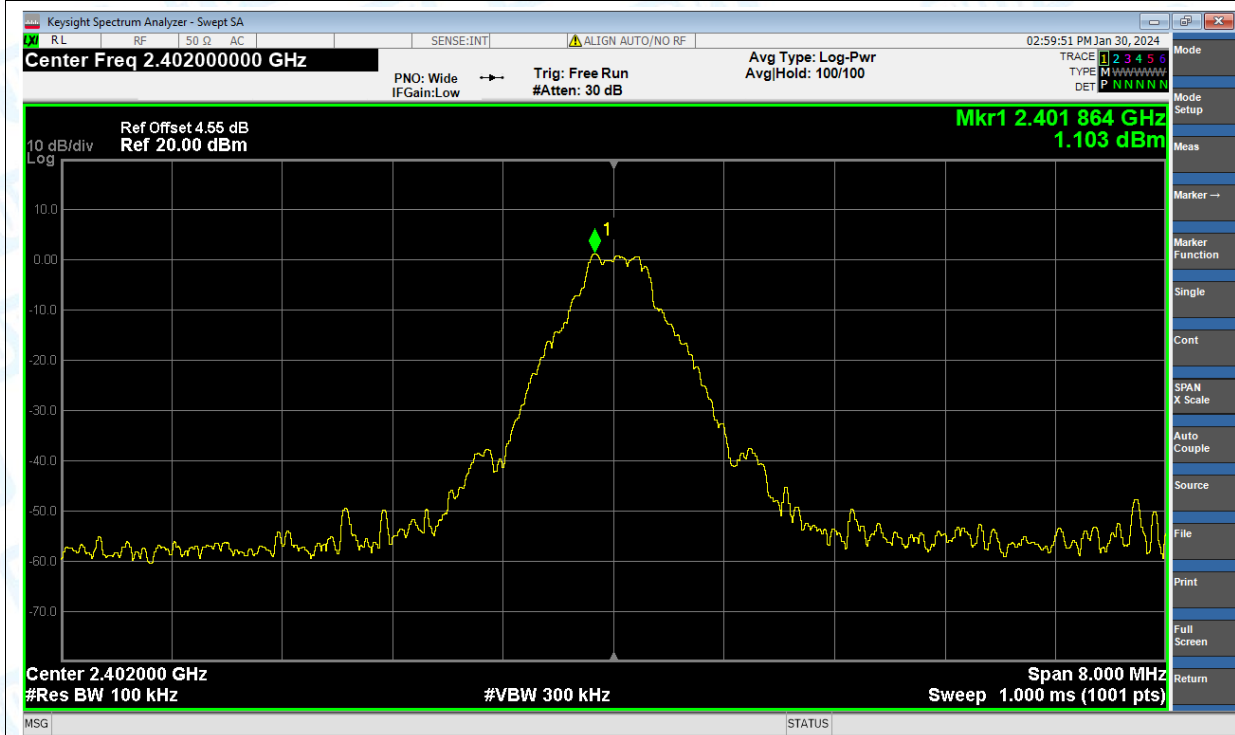


Band Edge

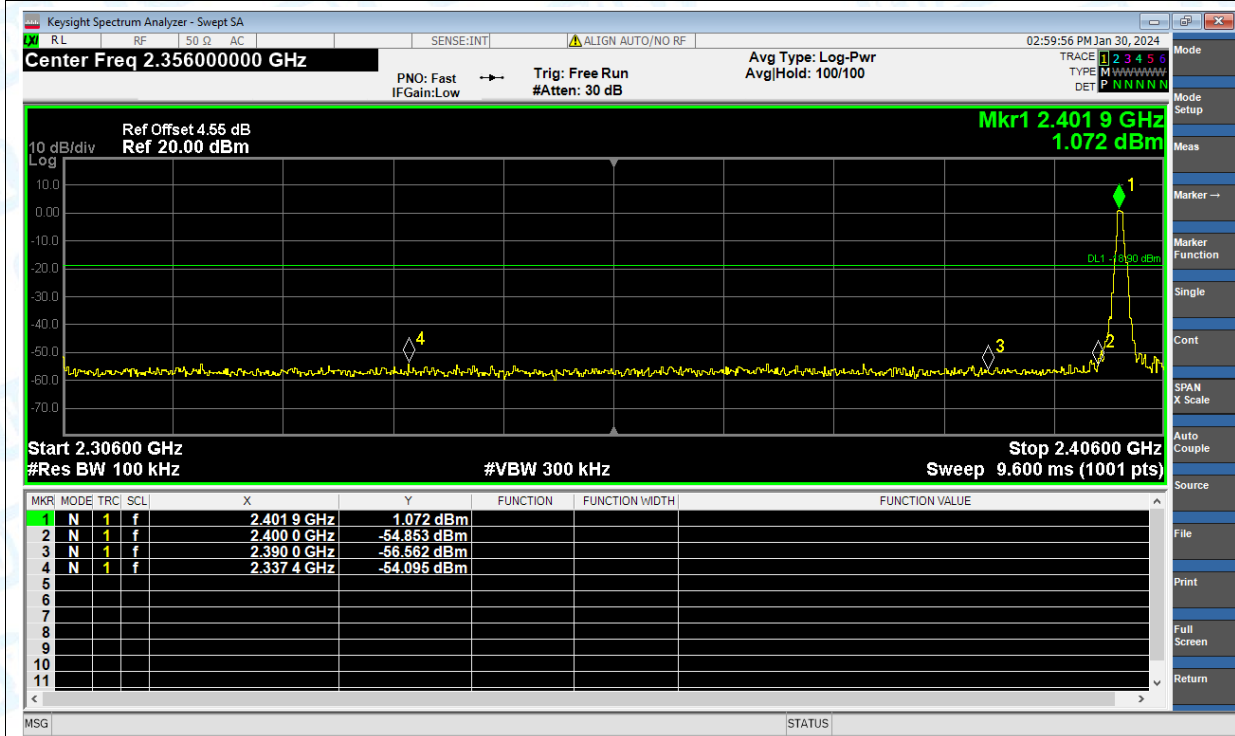
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-55.19	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-53.48	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-55.36	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-53.7	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-54.48	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-53.53	-20	Pass

Test Graphs

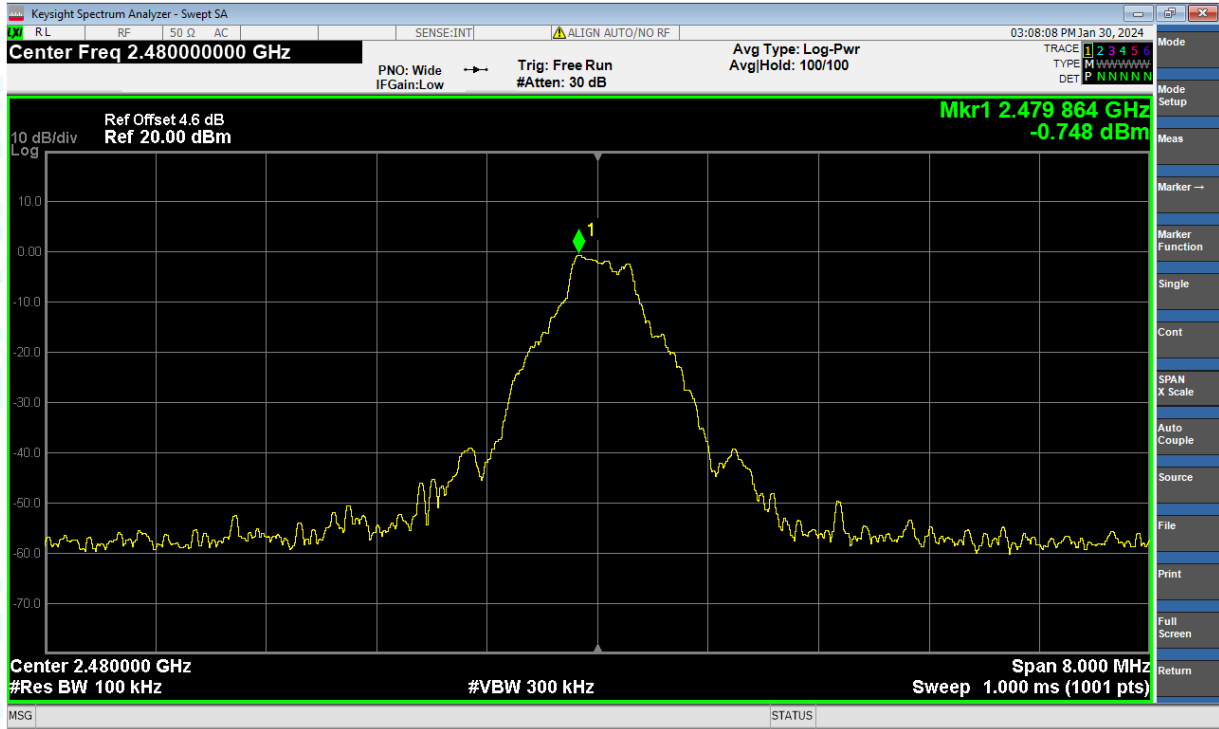
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



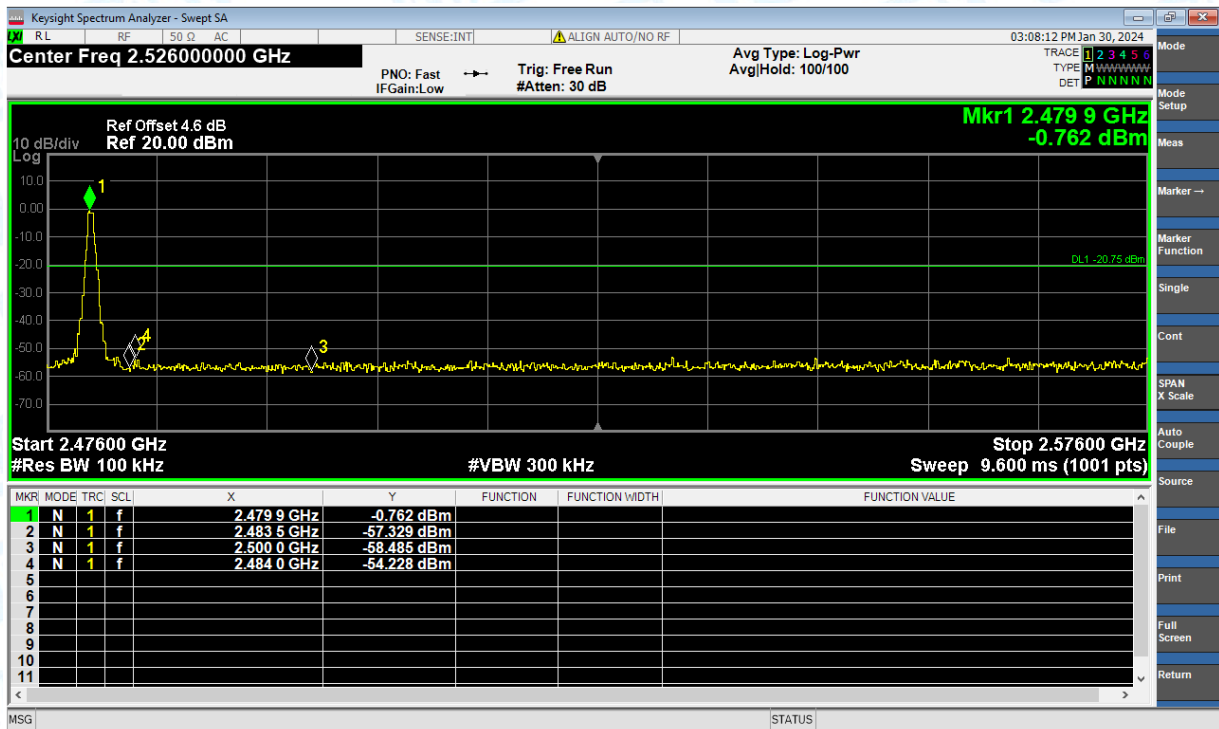
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



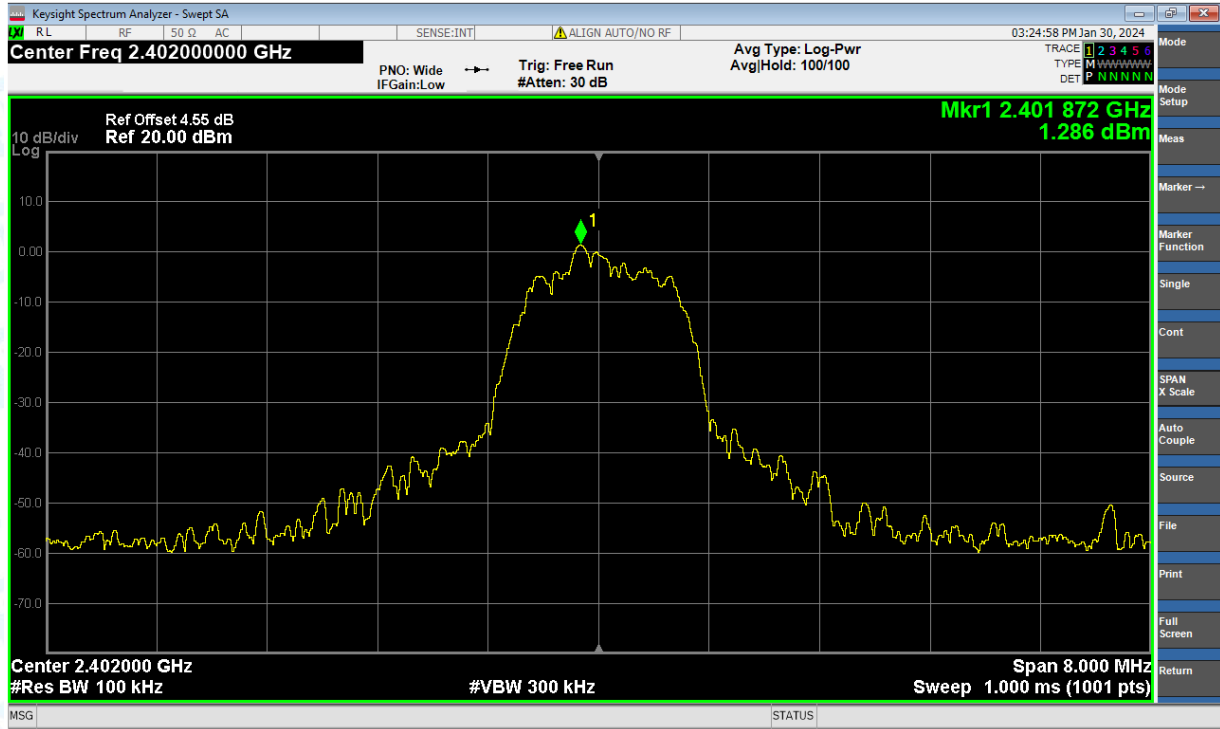
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



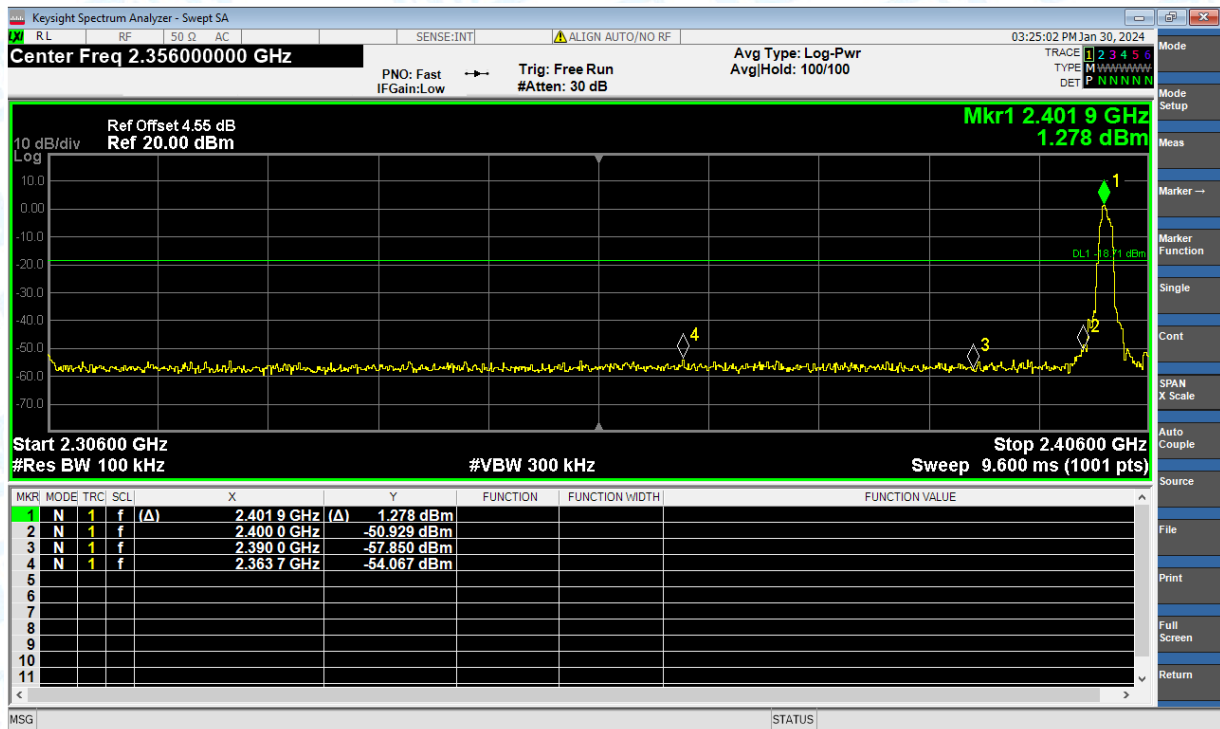
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



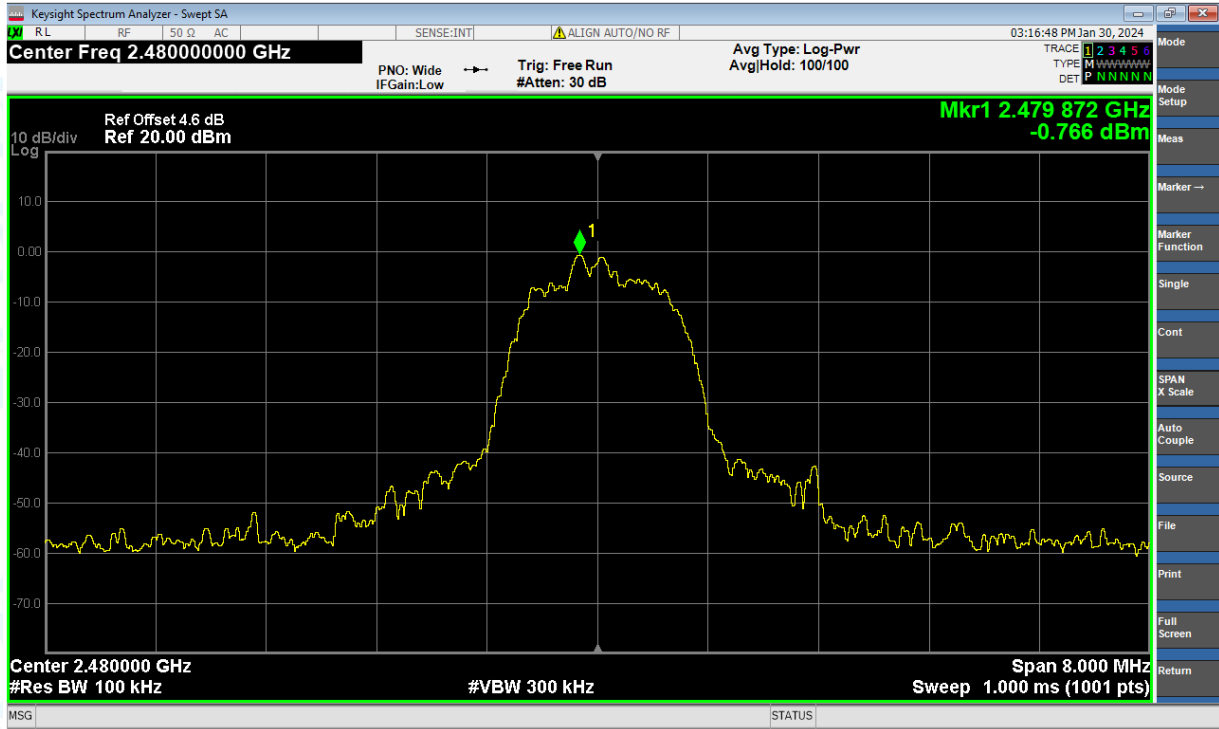
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



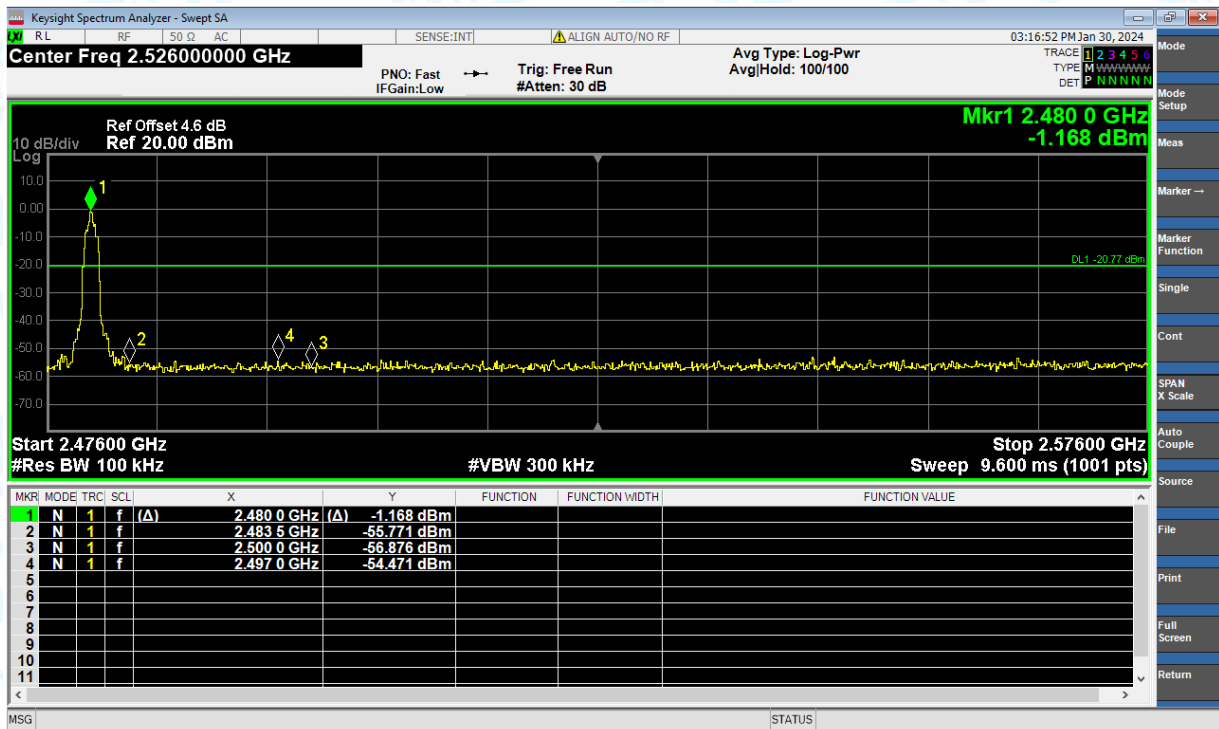
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



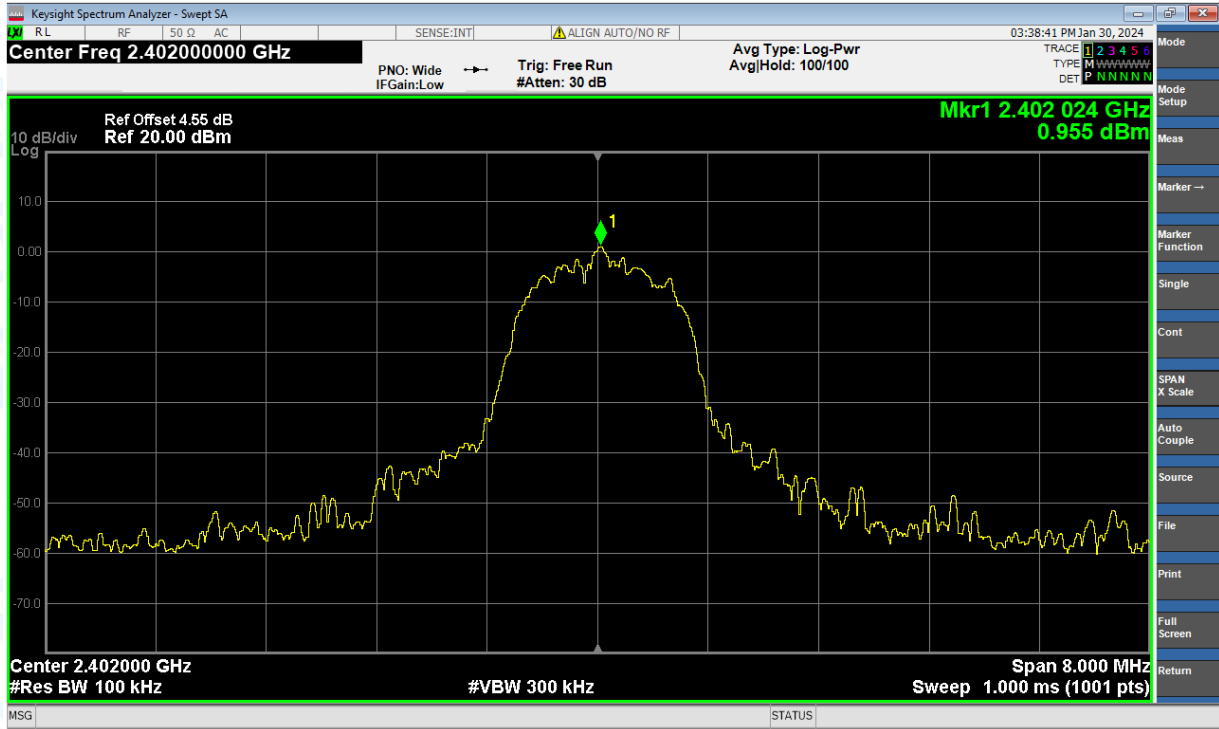
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Ref



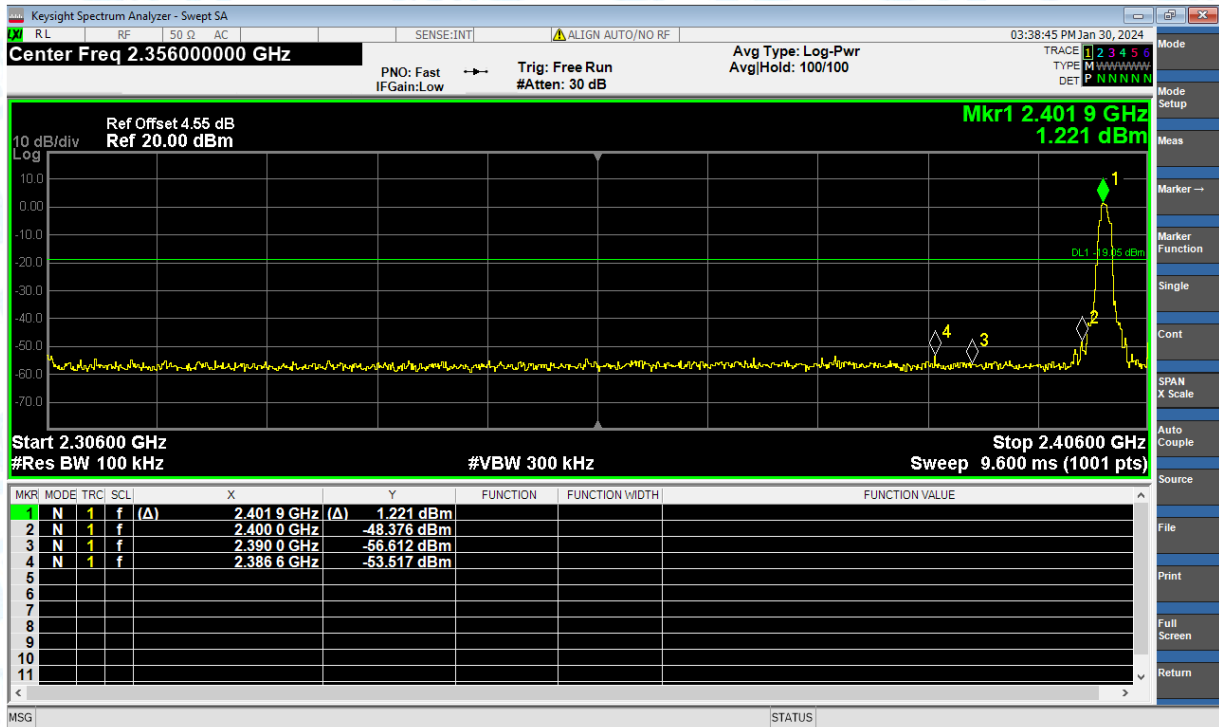
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission



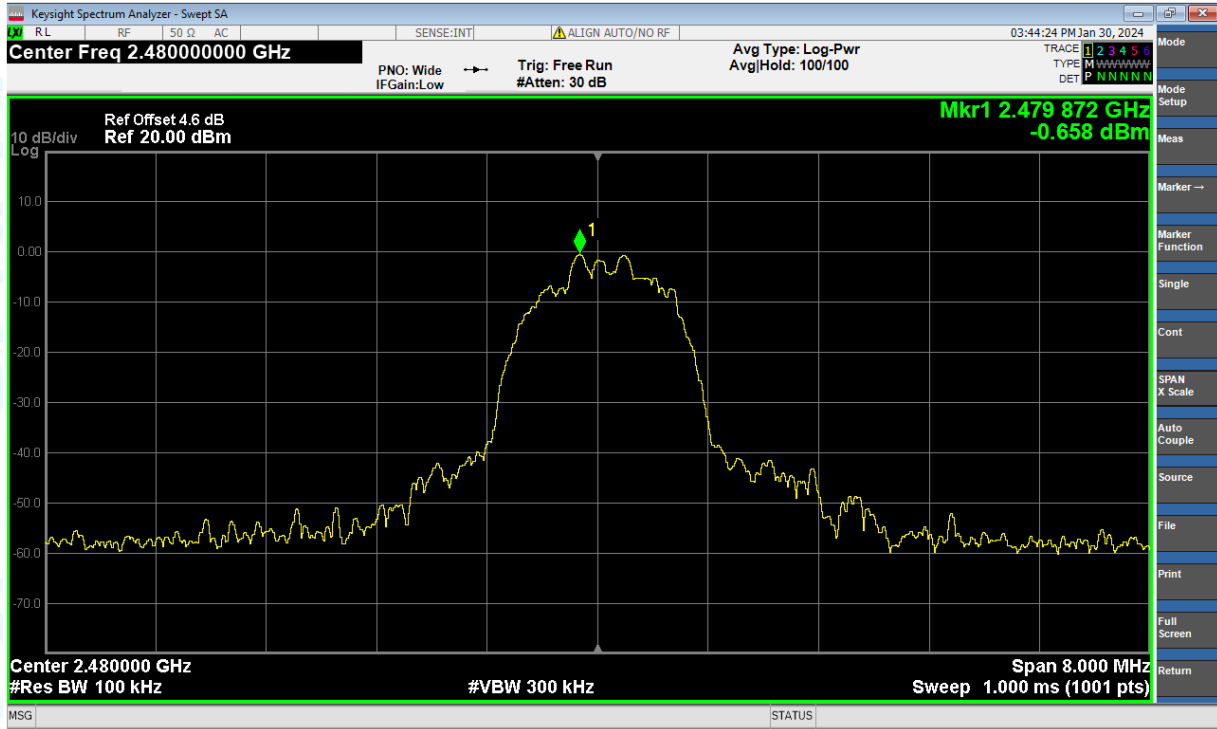
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Ref



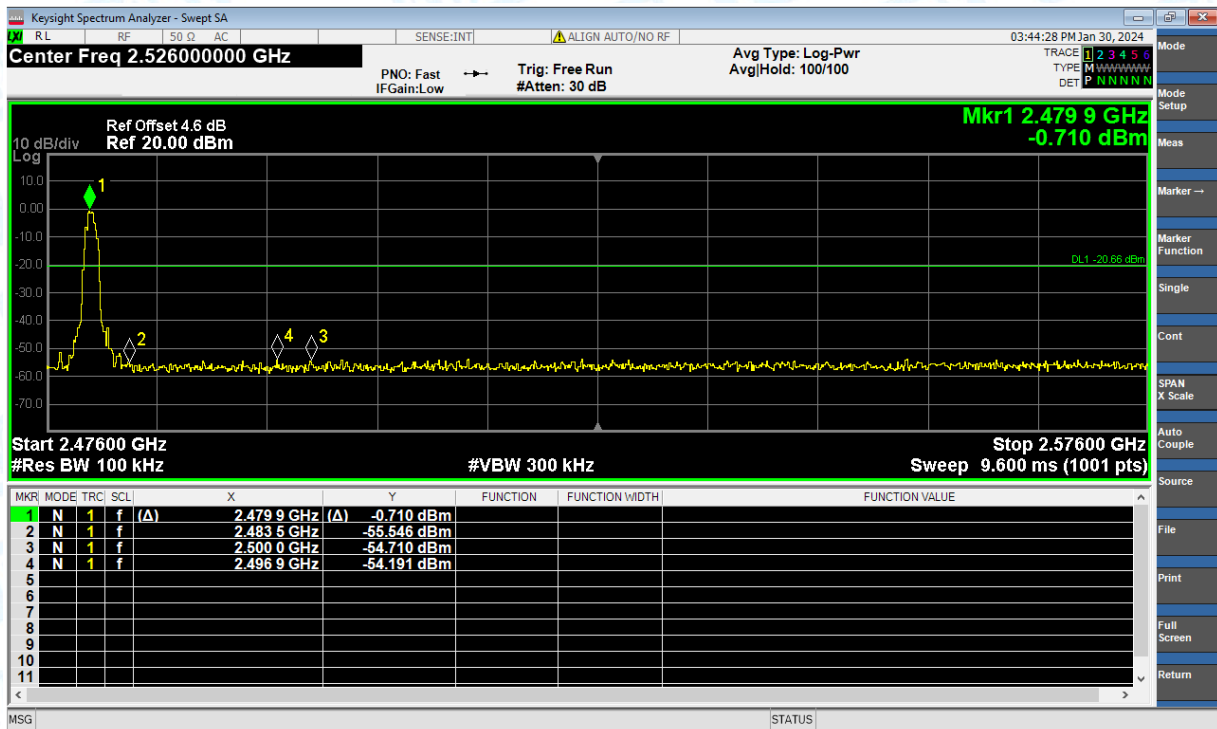
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission



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



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



Band Edge(Hopping)

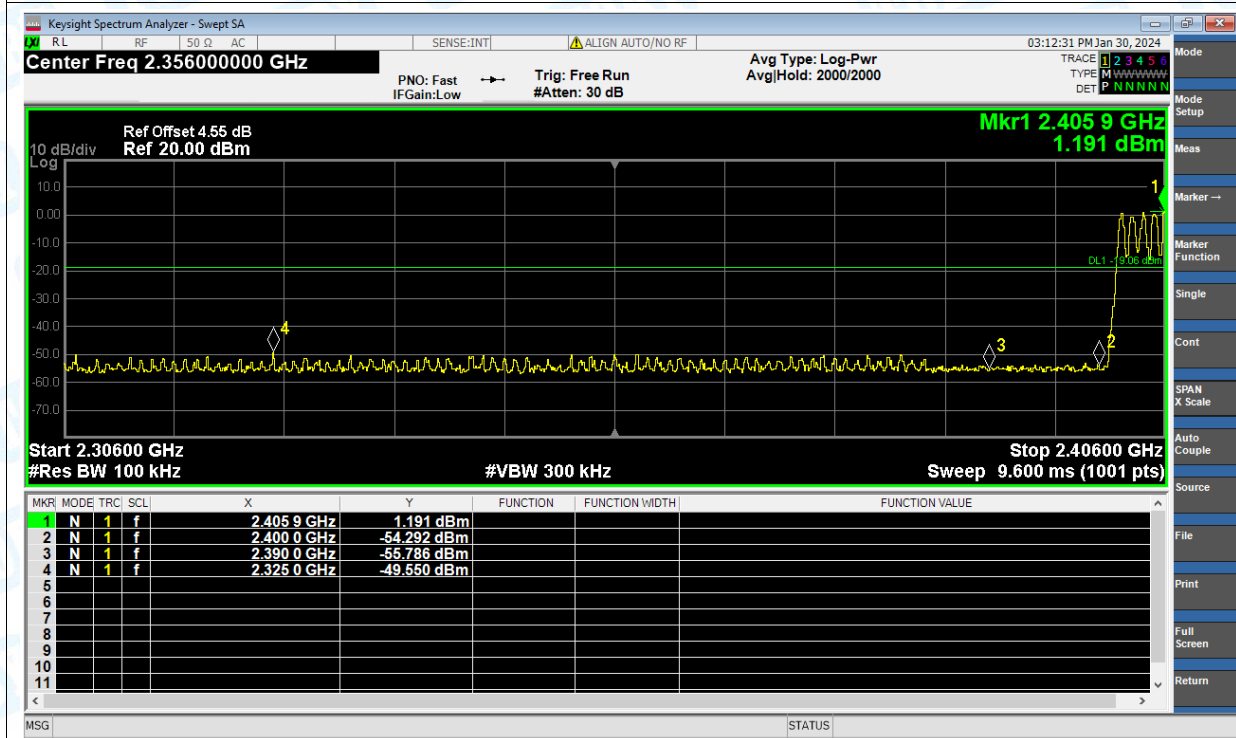
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-50.49	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-52.47	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-50.19	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-51.36	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-51.41	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-51.9	-20	Pass

Test Graphs

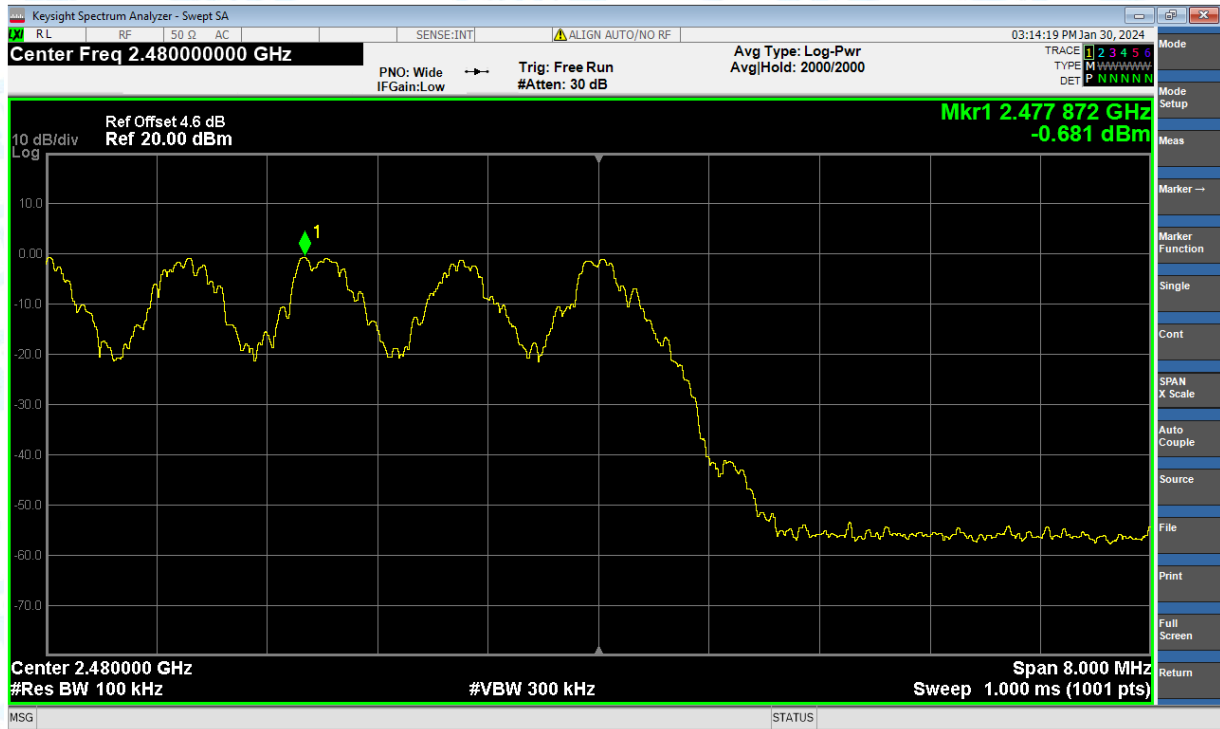
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Ref



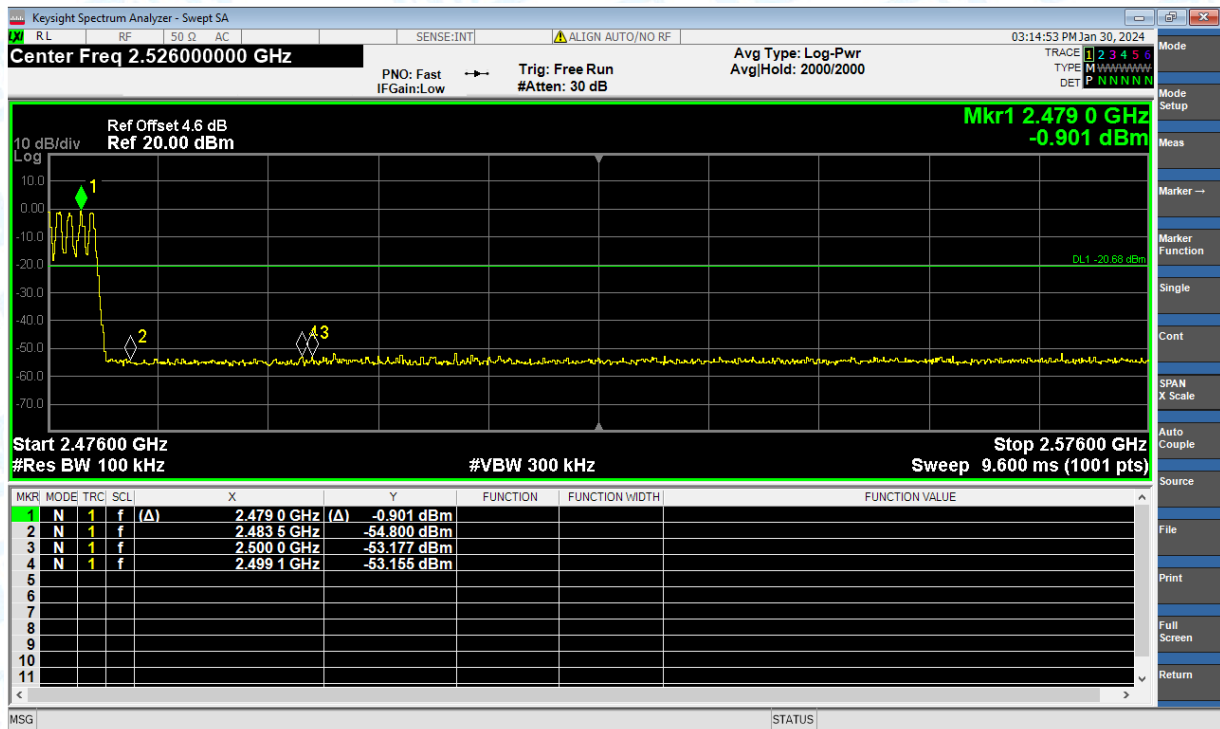
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission



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



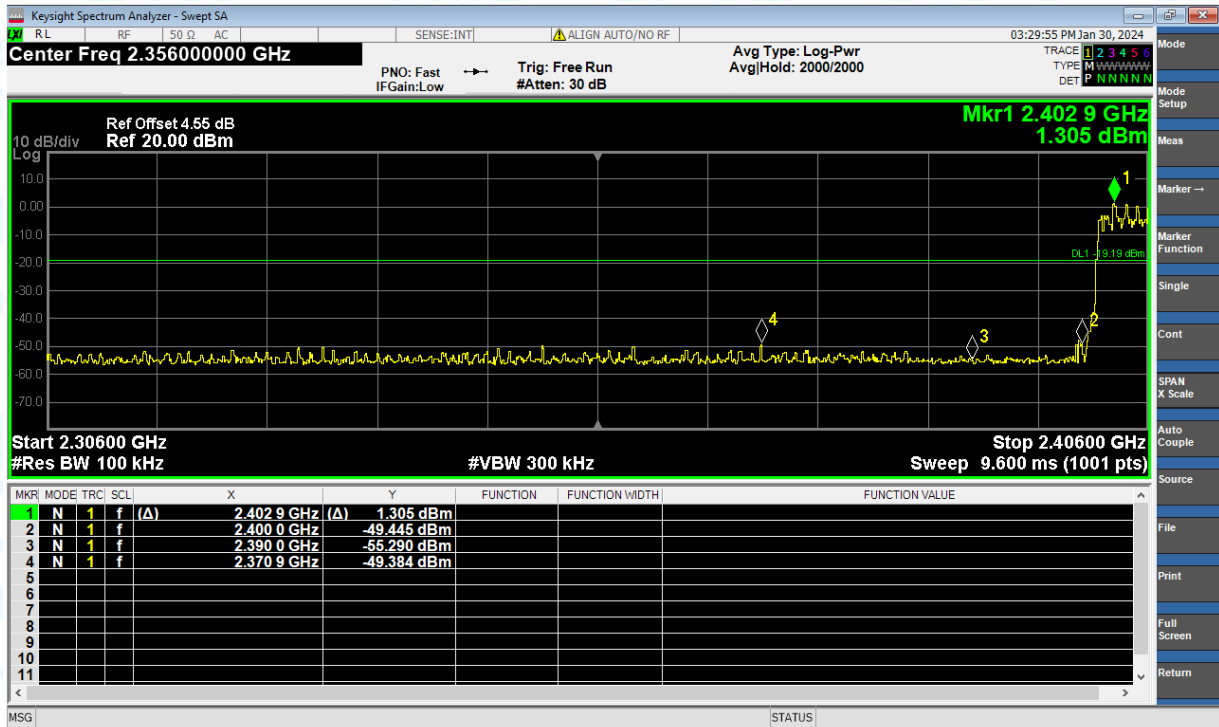
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission



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



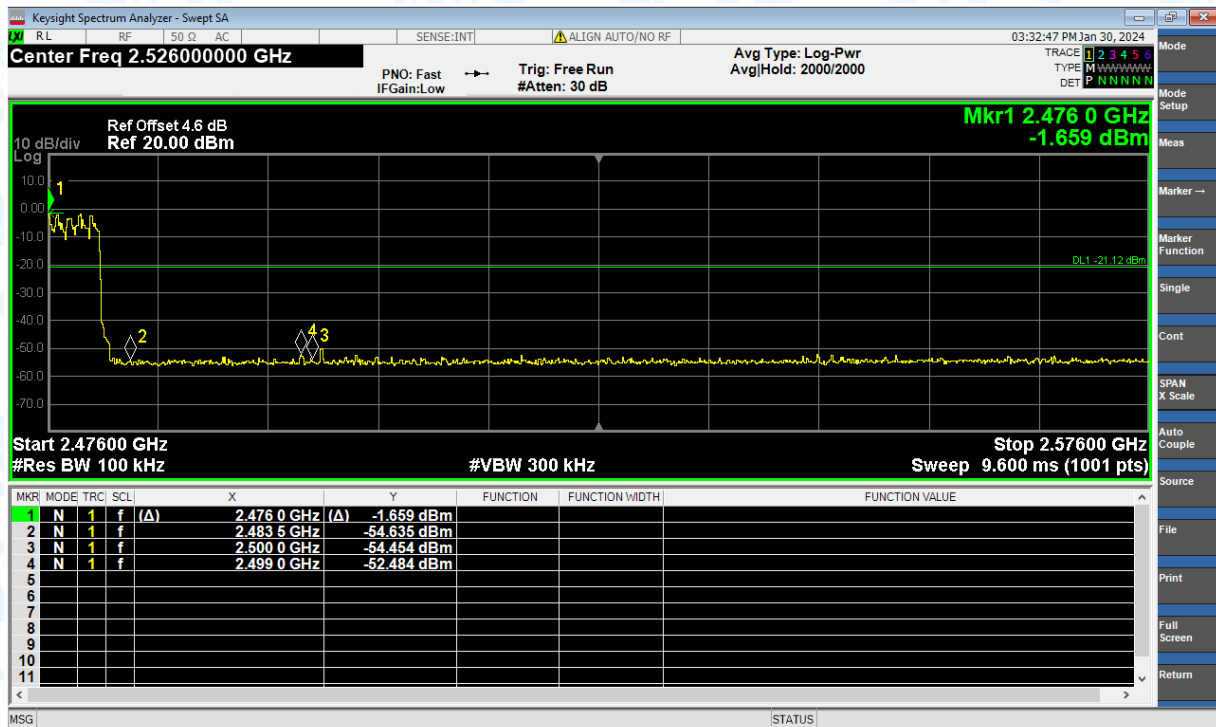
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission



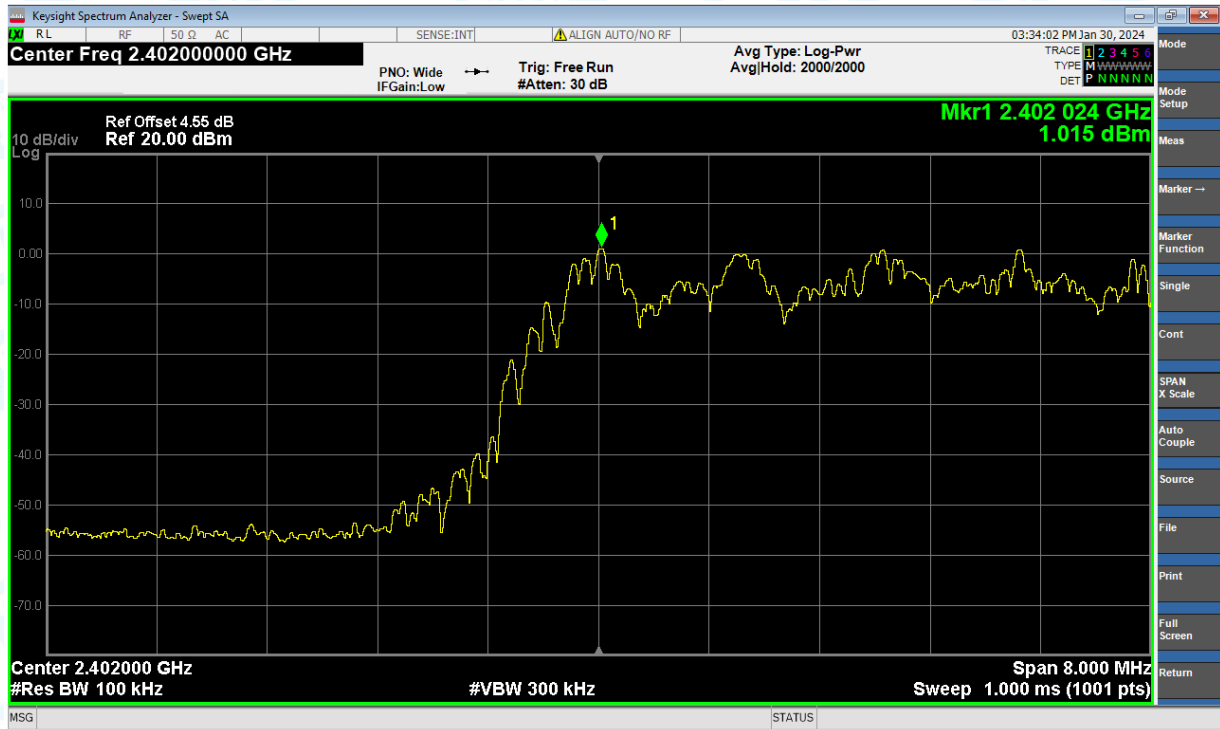
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Ref



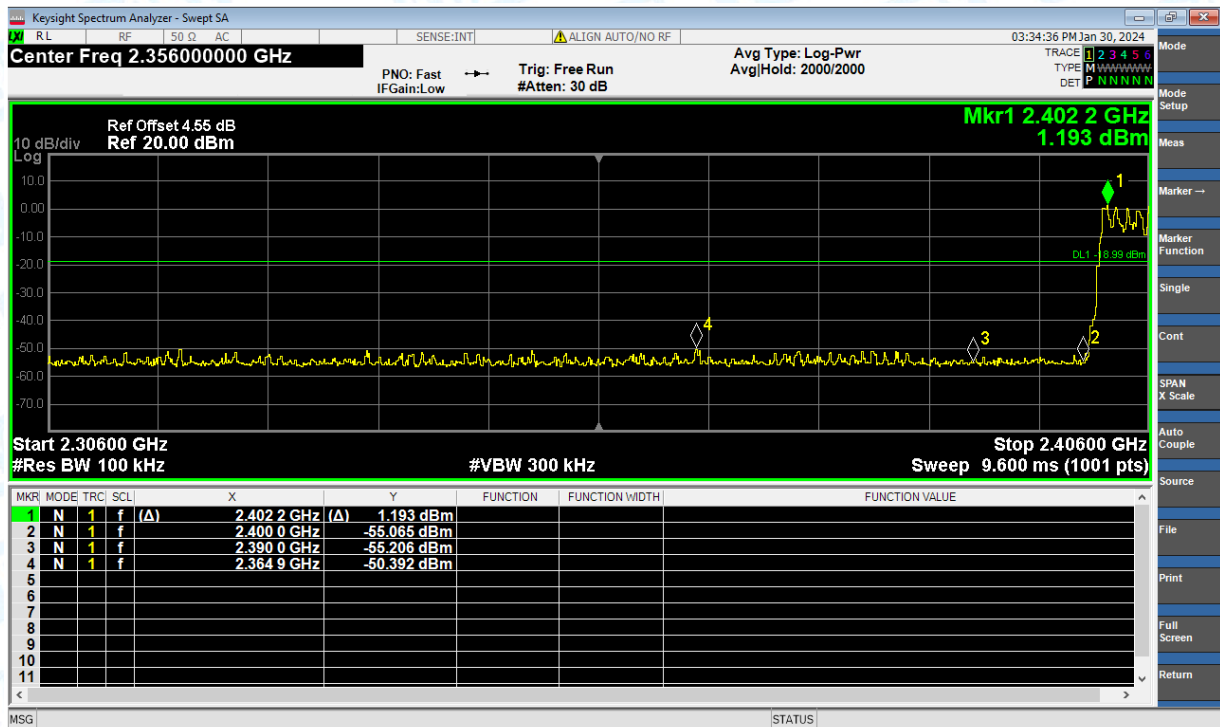
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission



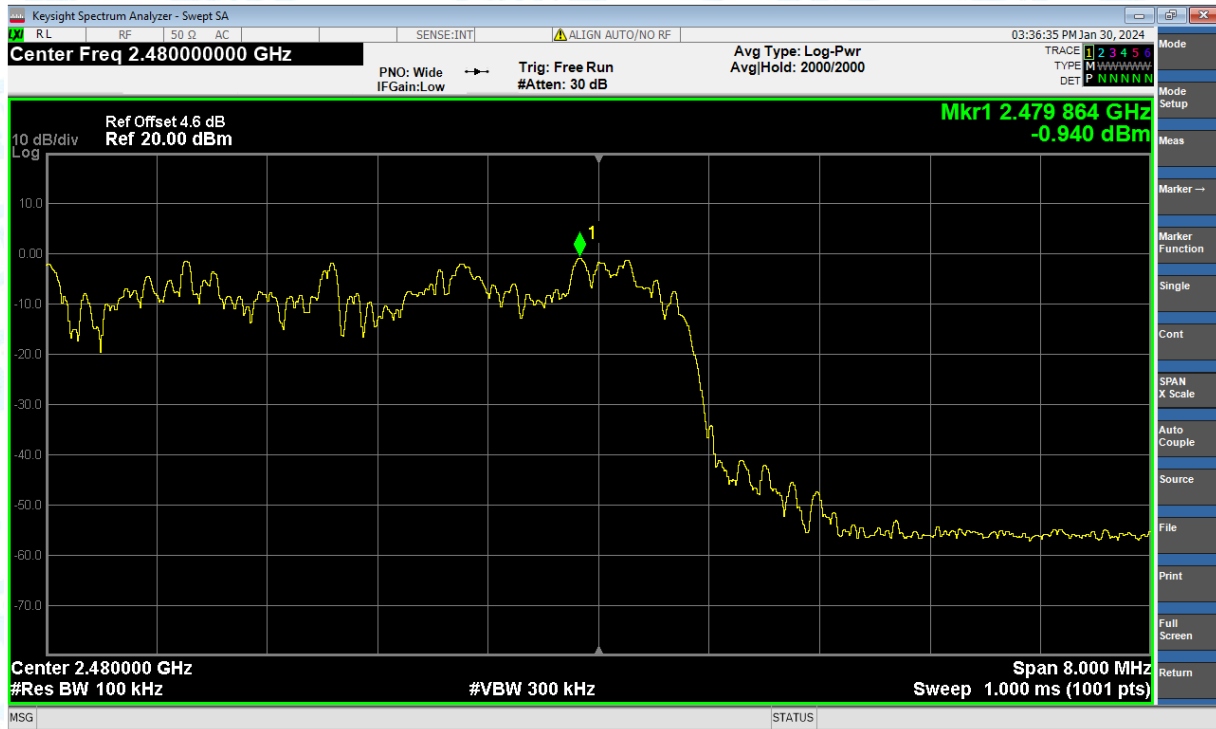
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Ref



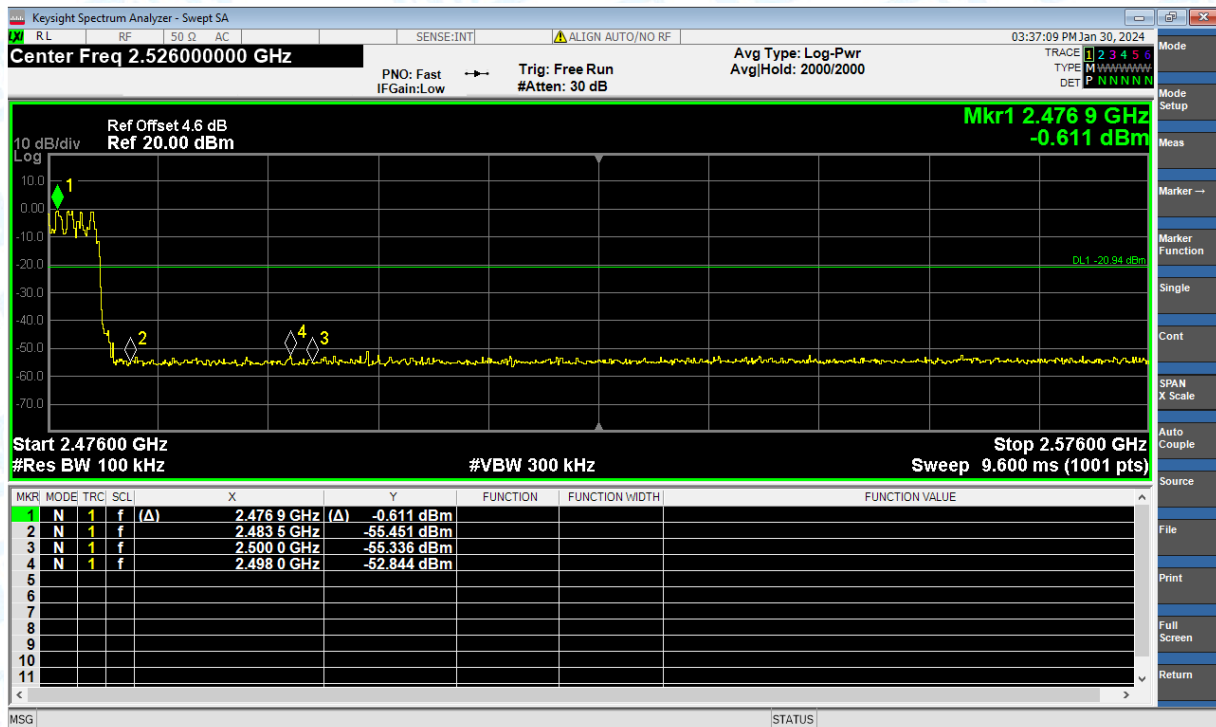
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Emission



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



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

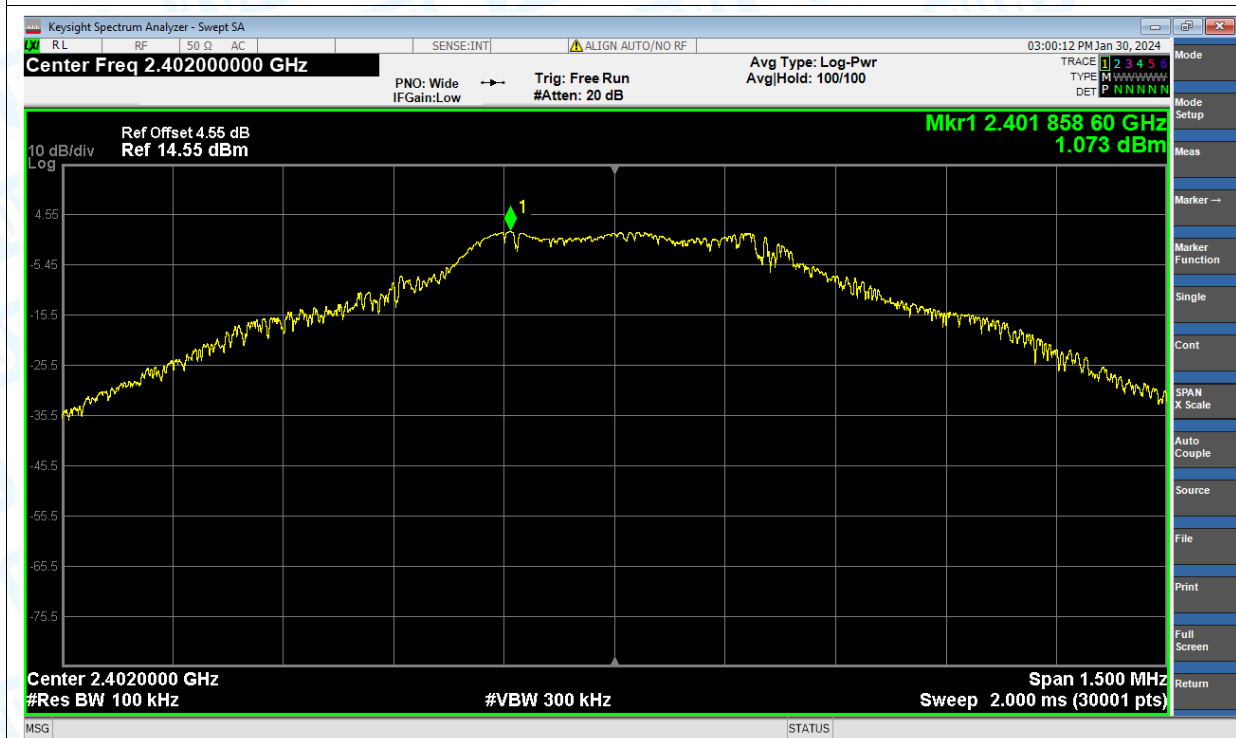


Conducted RF Spurious Emission

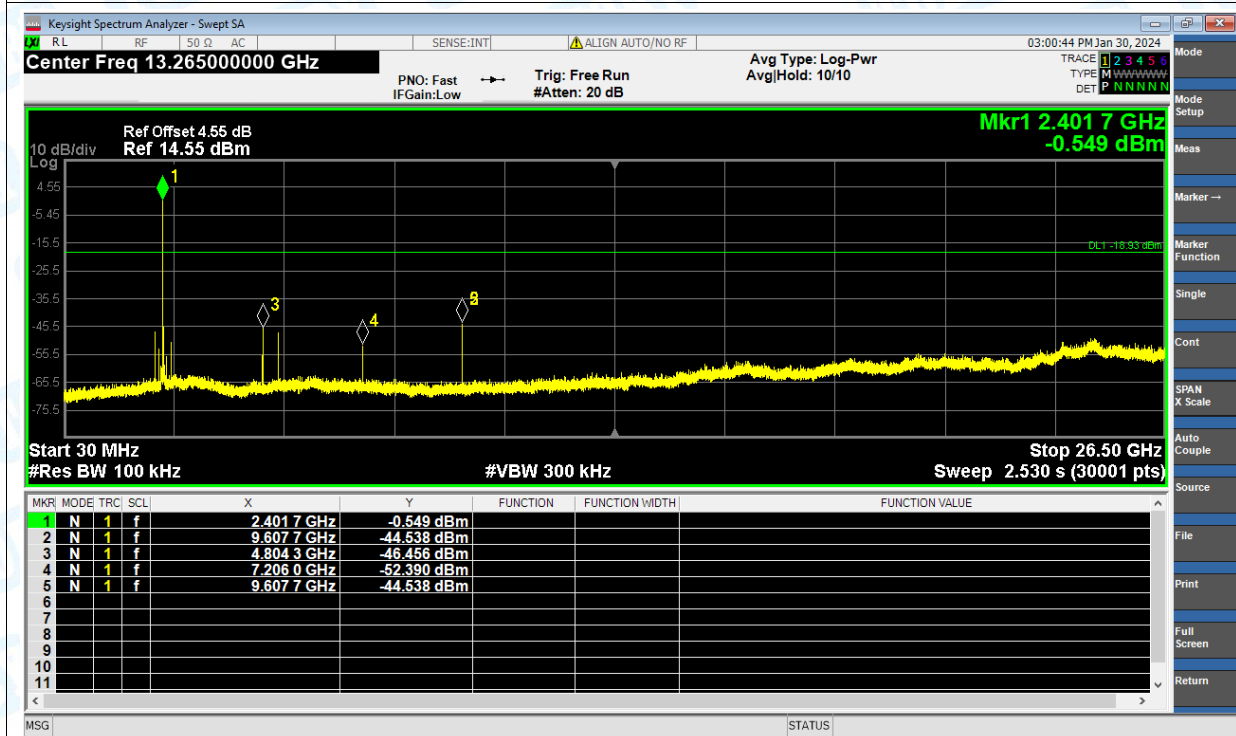
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-45.61	-20	Pass
NVNT	1-DH1	2441	Ant1	-44.99	-20	Pass
NVNT	1-DH1	2480	Ant1	-41.13	-20	Pass
NVNT	2-DH1	2402	Ant1	-44.81	-20	Pass
NVNT	2-DH1	2441	Ant1	-44.71	-20	Pass
NVNT	2-DH1	2480	Ant1	-40.4	-20	Pass
NVNT	3-DH1	2402	Ant1	-44.76	-20	Pass
NVNT	3-DH1	2441	Ant1	-45.55	-20	Pass
NVNT	3-DH1	2480	Ant1	-40.67	-20	Pass

Test Graphs

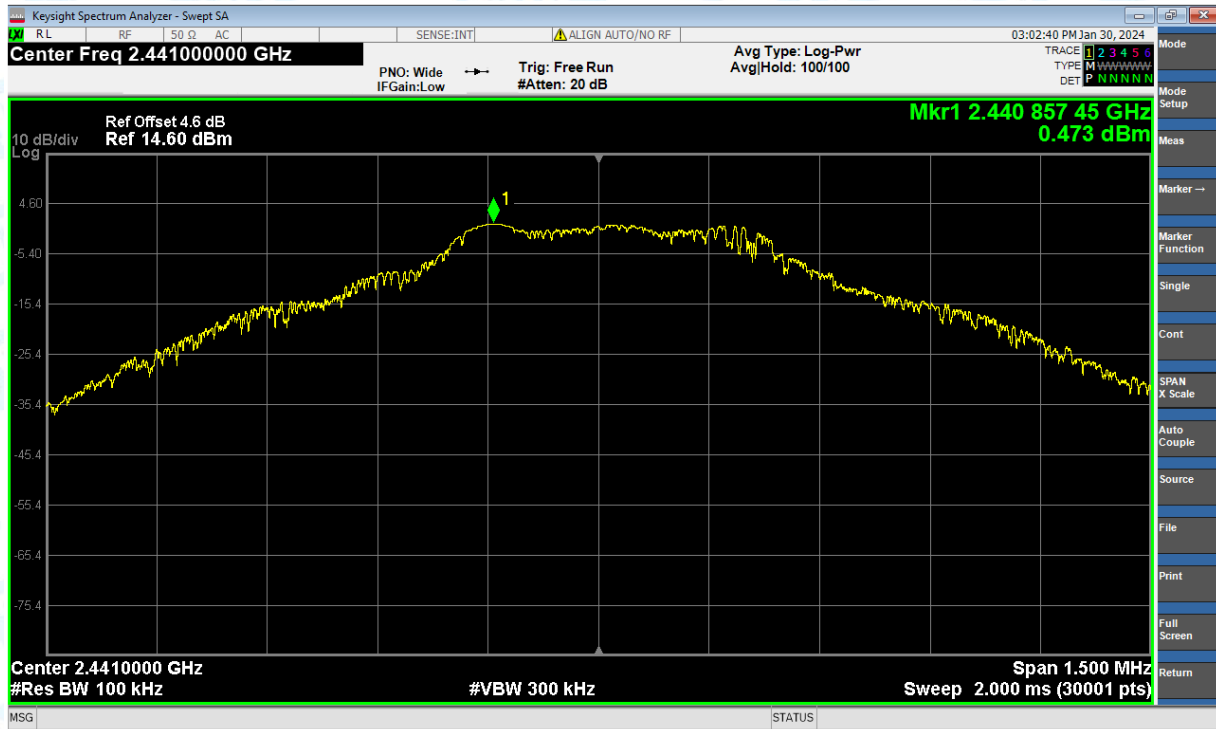
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



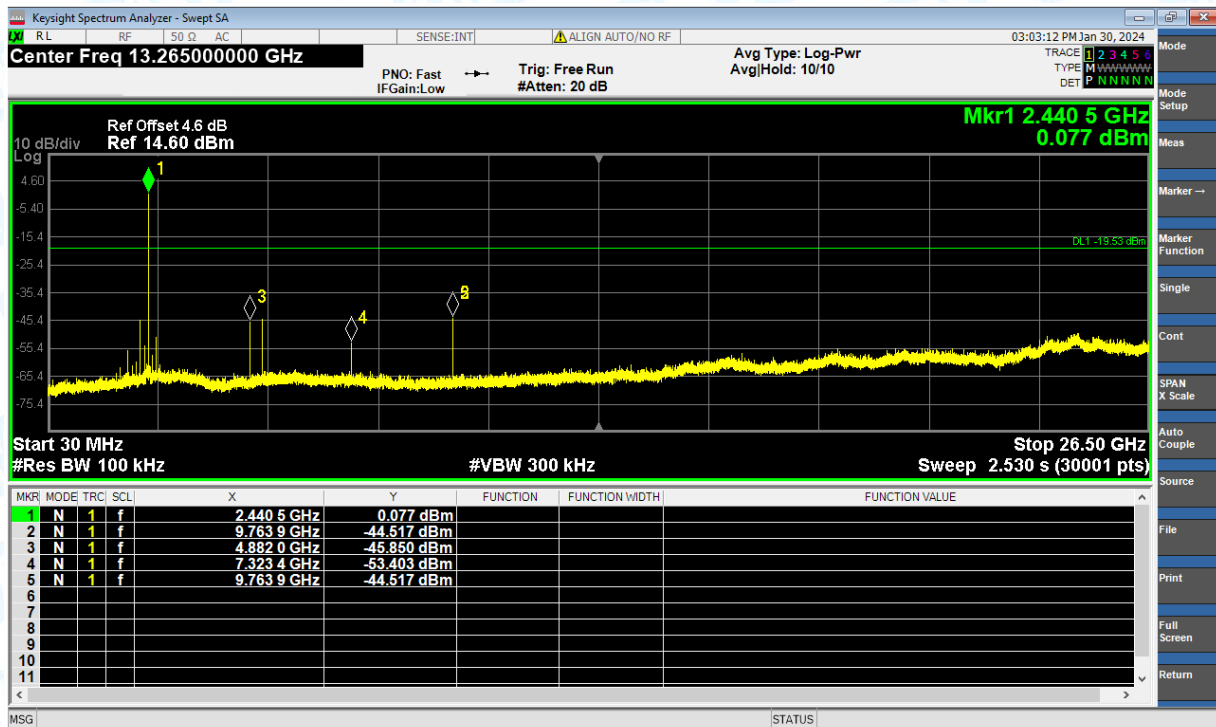
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



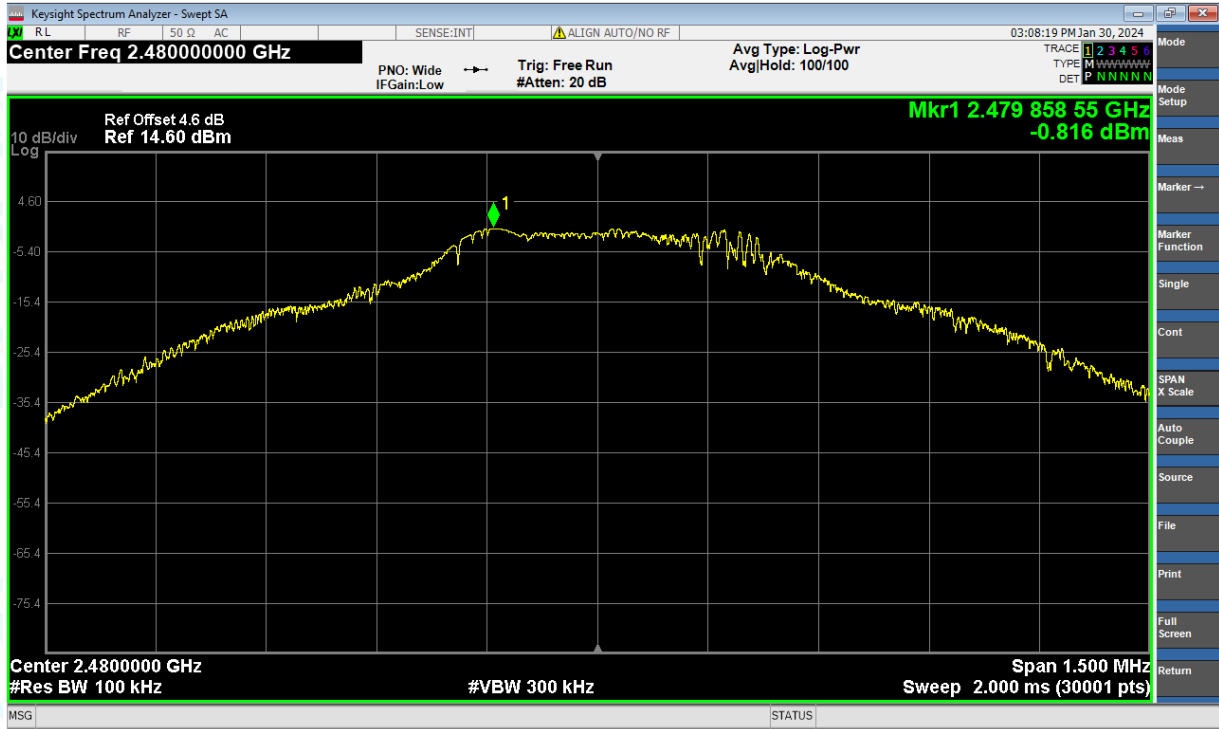
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



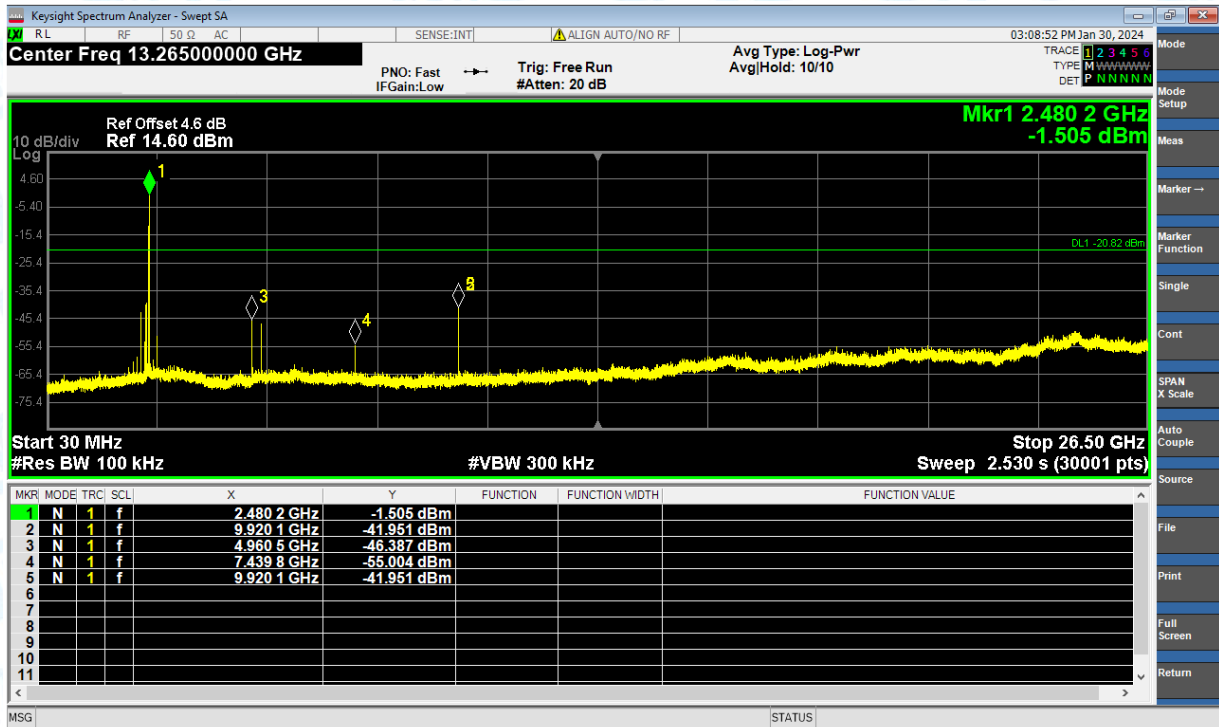
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



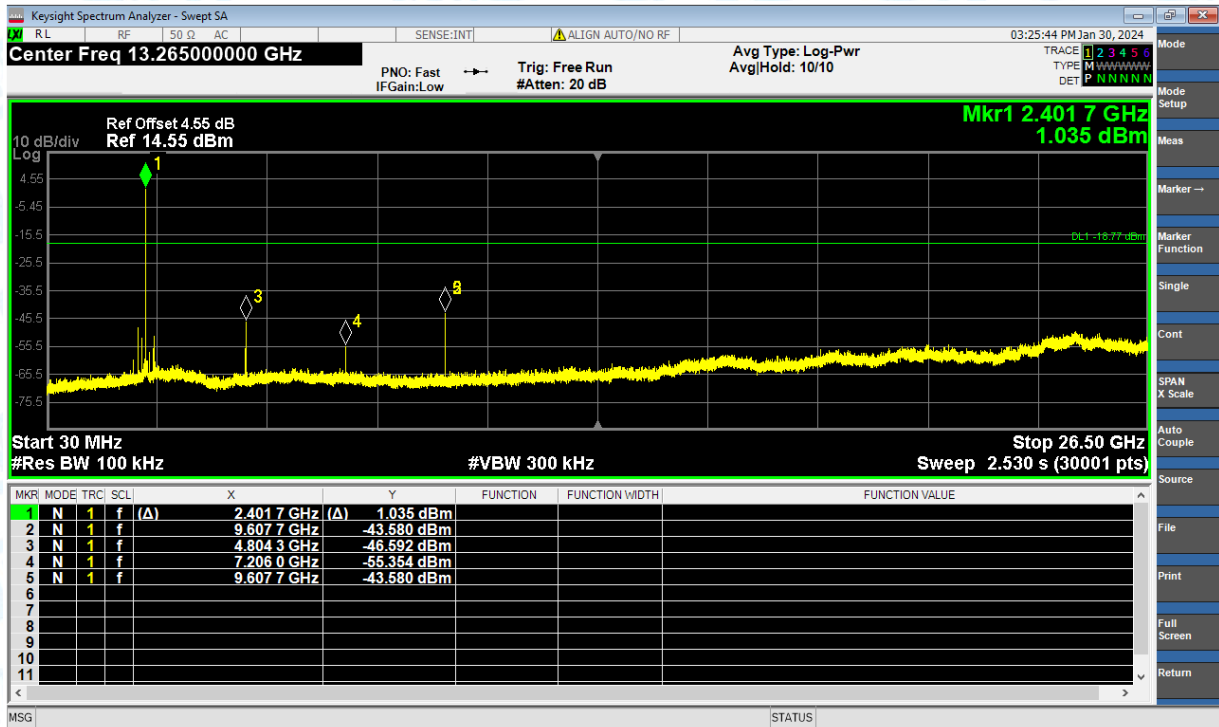
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



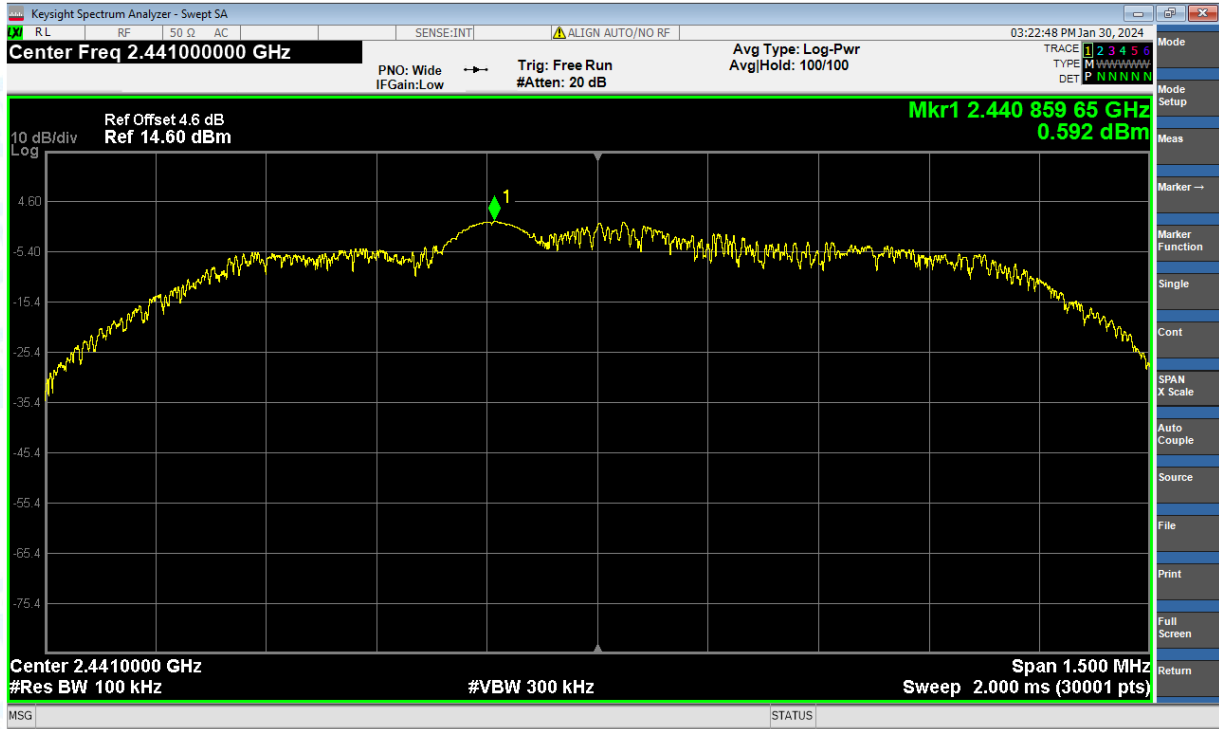
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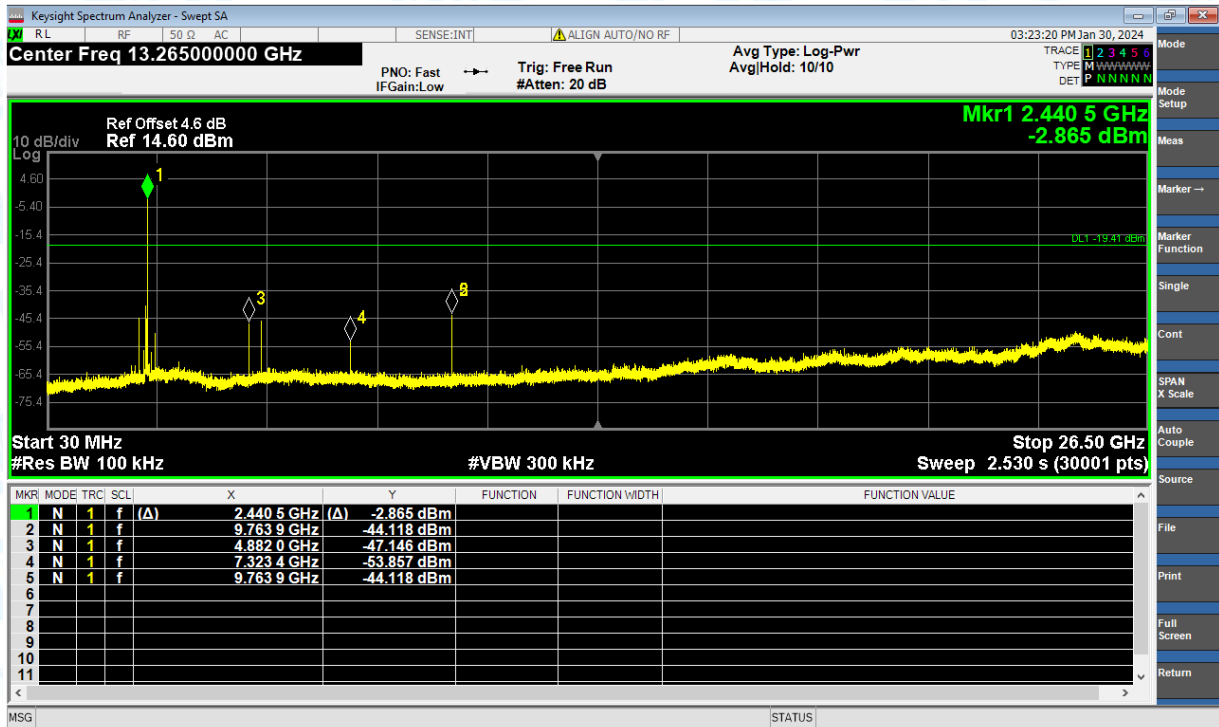
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



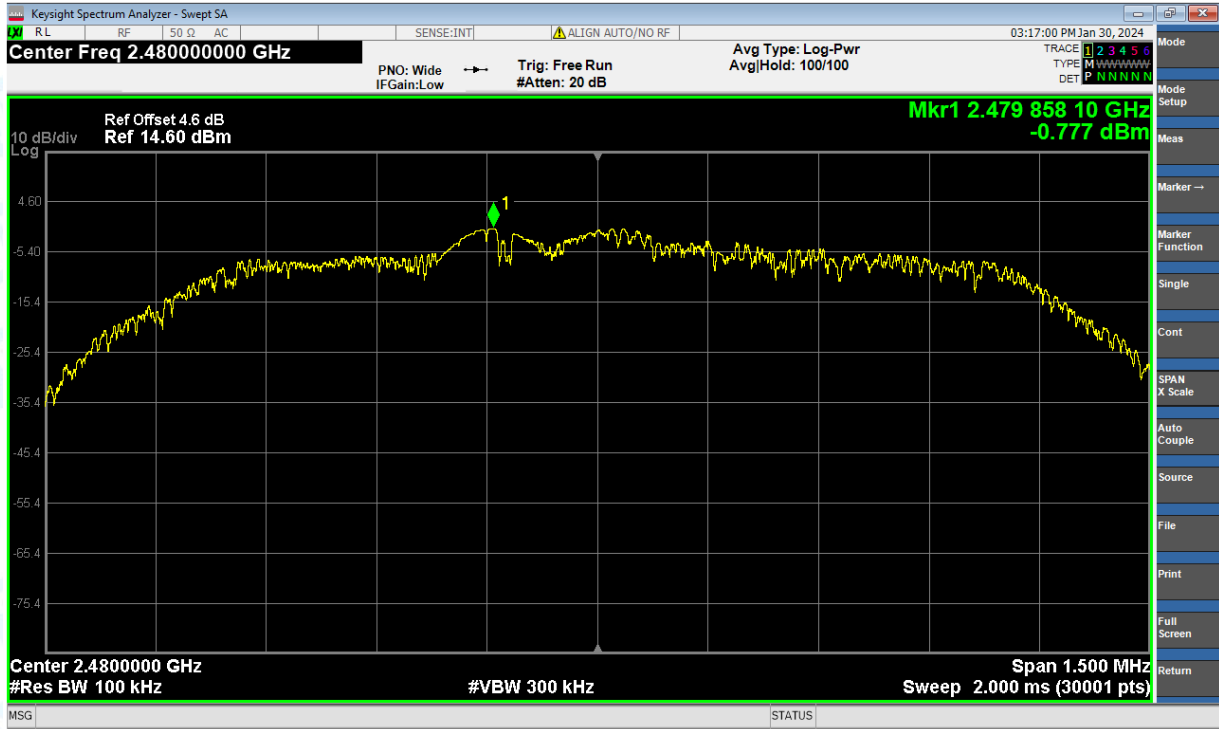
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



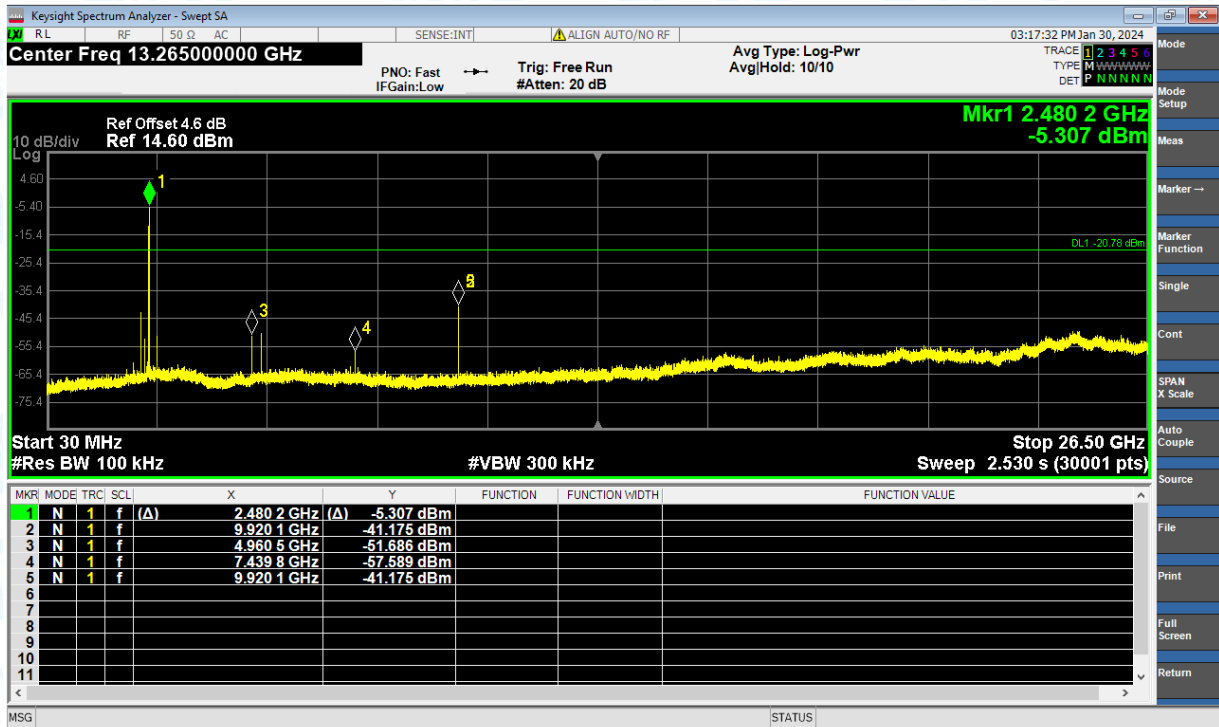
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



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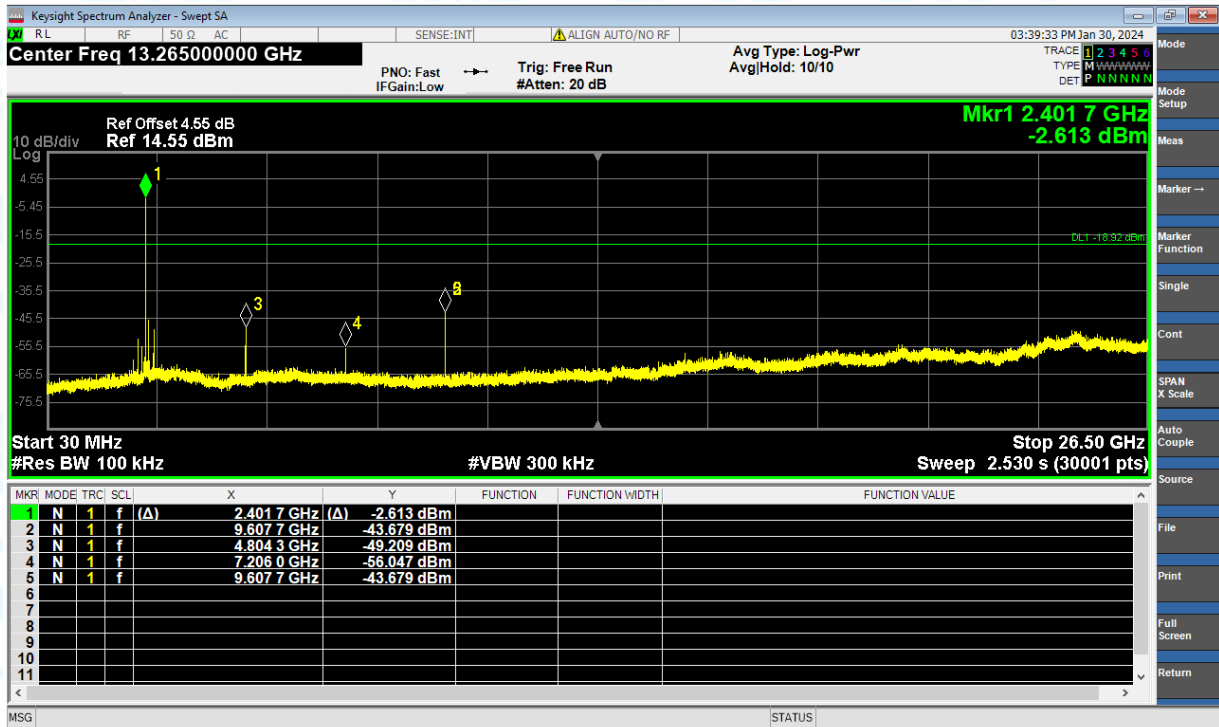
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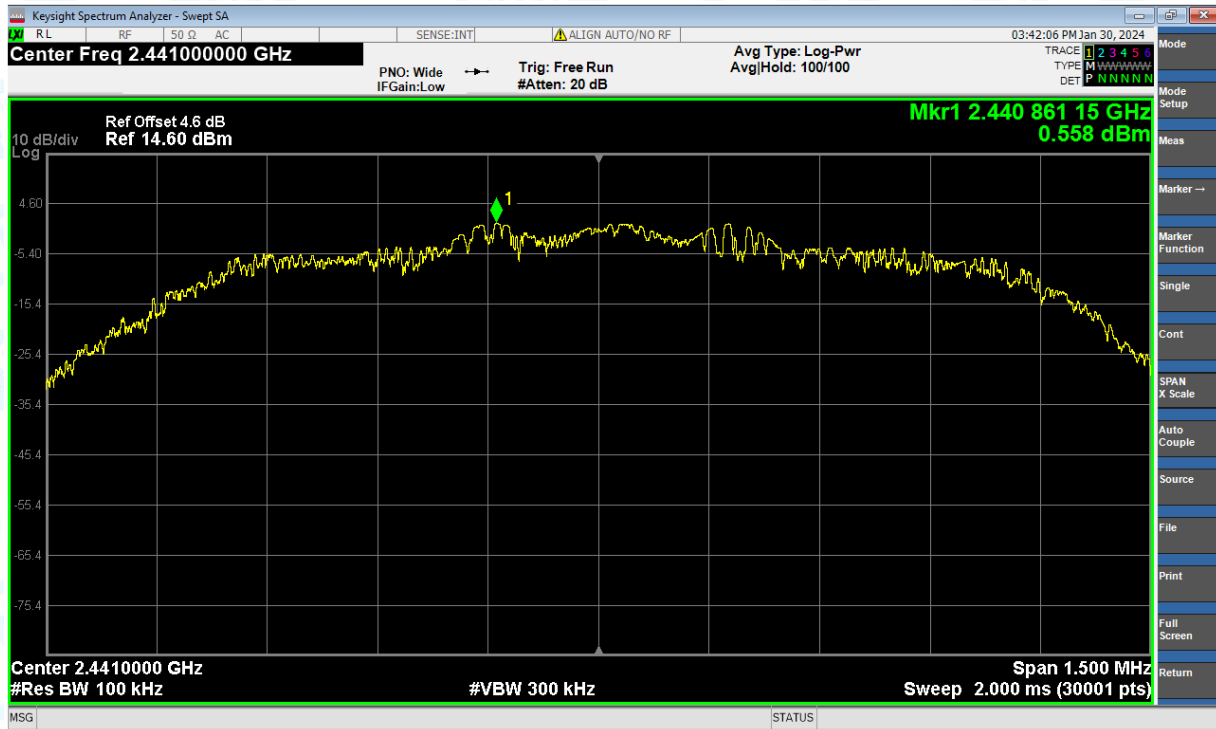
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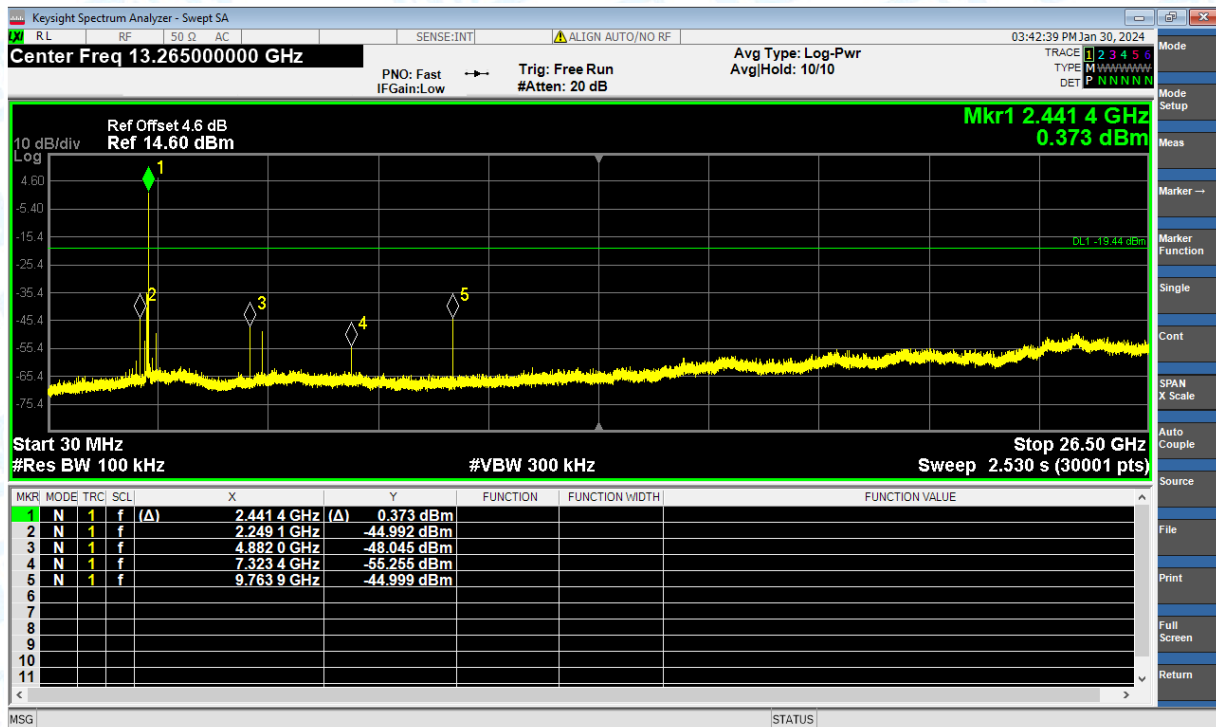
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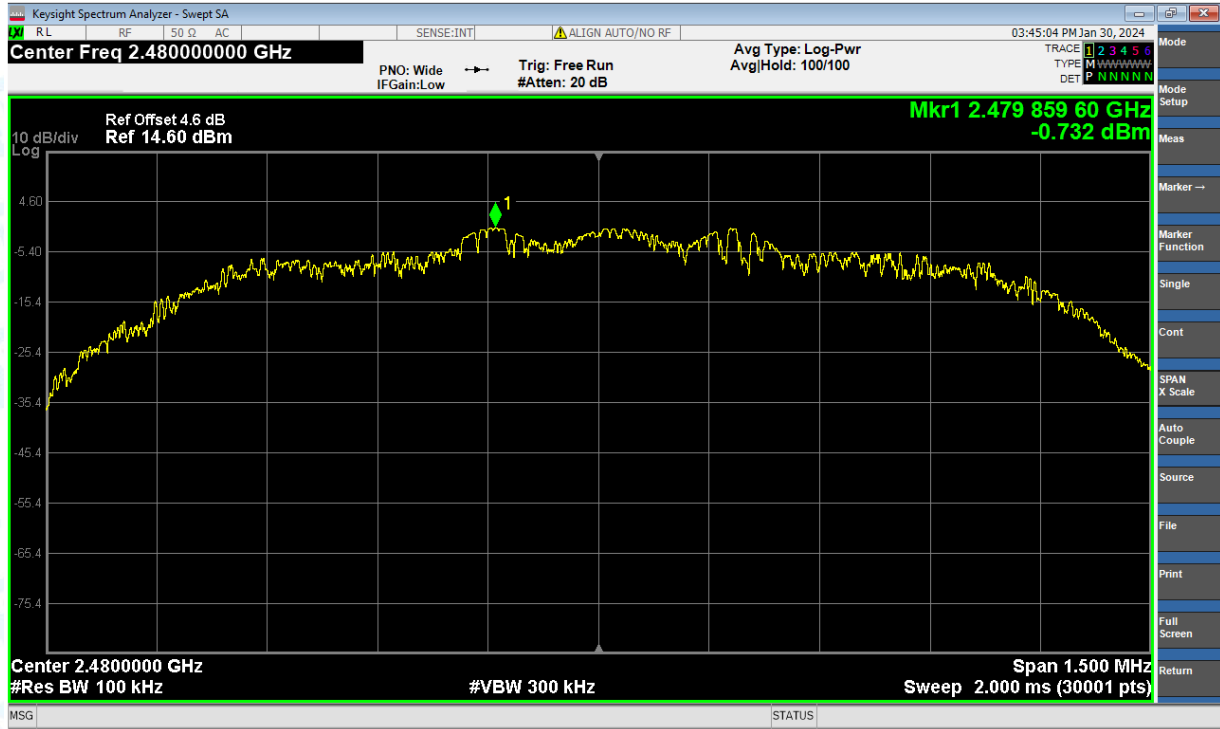
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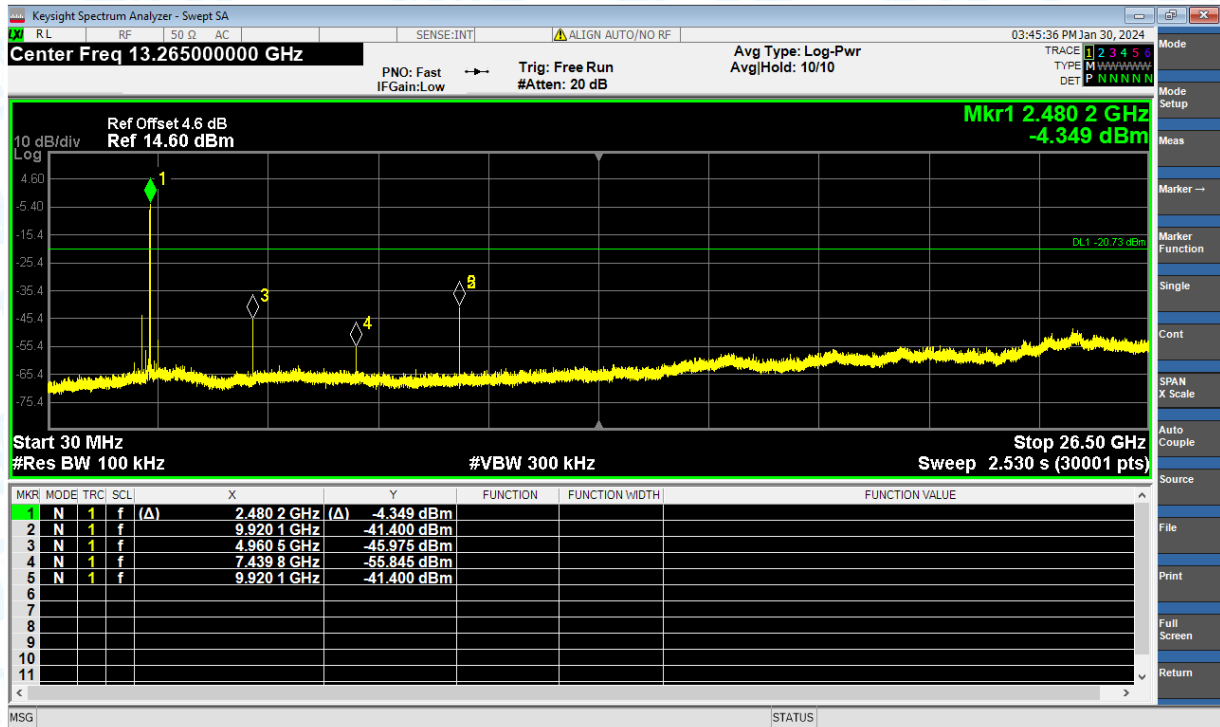
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Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

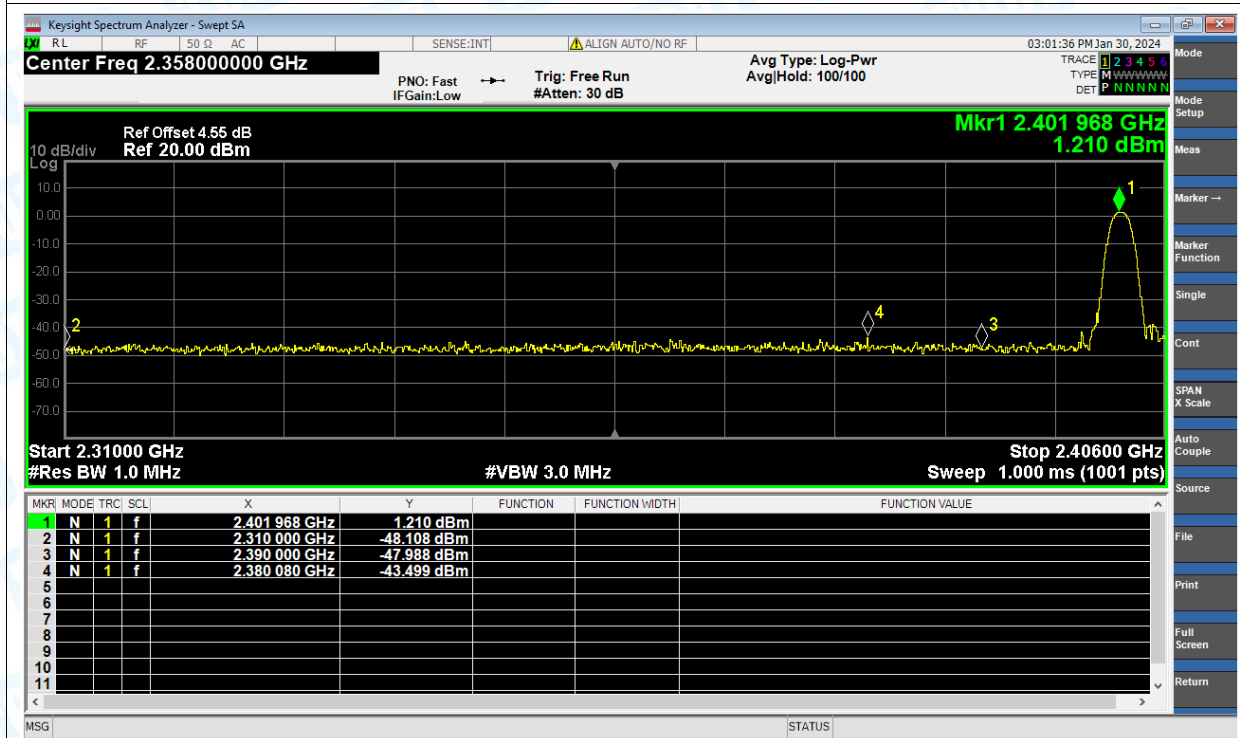


Restrict Band

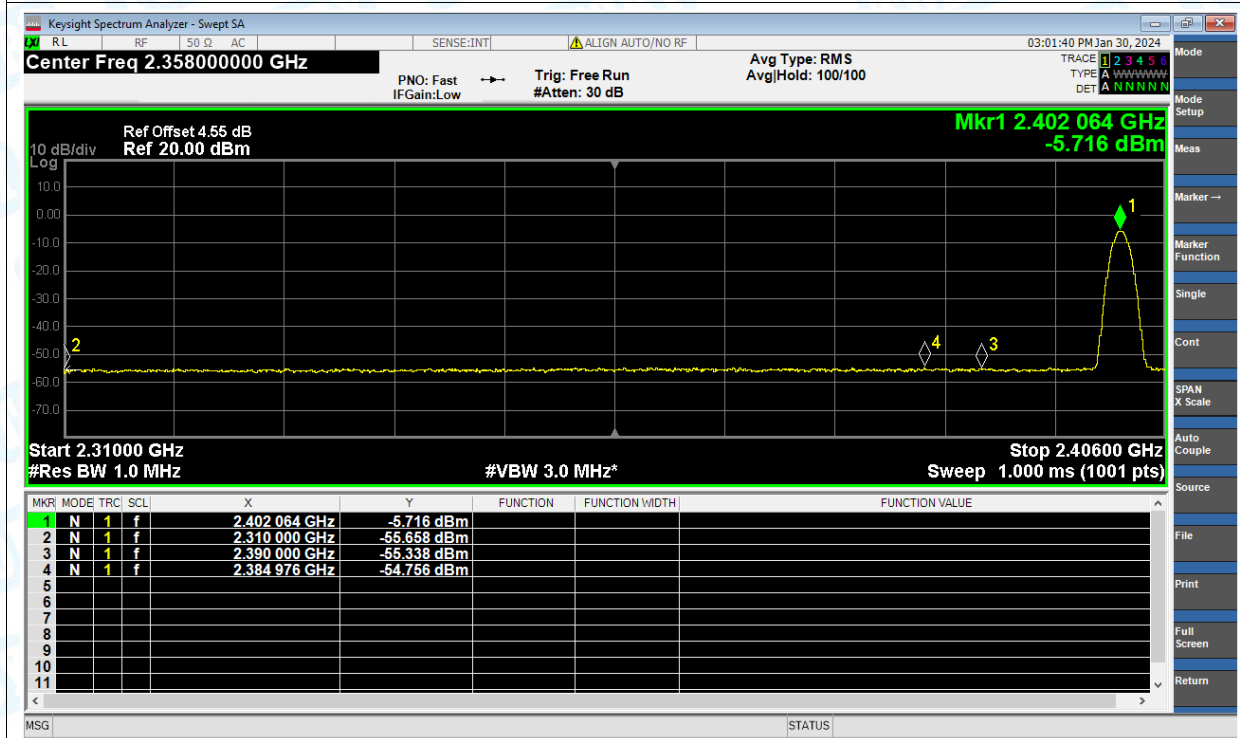
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-48.11	3.35	-	50.5	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-55.66	3.35	5.06	48.01	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2380.08	-43.5	3.35	-	55.11	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2384.976	-54.76	3.35	5.06	48.91	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-47.99	3.35	-	50.62	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-55.34	3.35	5.06	48.33	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-48.53	3.35	-	50.08	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-55.57	3.35	5.17	48.21	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2497.792	-43.82	3.35	-	54.79	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2492.704	-54.55	3.35	5.17	49.23	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-47.74	3.35	-	50.87	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-55.47	3.35	5.17	48.31	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-47.86	3.35	-	50.75	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-56.19	3.35	4.95	47.37	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2354.736	-43.7	3.35	-	54.91	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2368.176	-54.58	3.35	4.95	48.98	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-49.1	3.35	-	49.51	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-55.64	3.35	4.95	47.92	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-46.38	3.35	-	52.23	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-55.44	3.35	5.06	48.23	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2484.76	-43.98	3.35	-	54.63	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2486.824	-54.21	3.35	5.06	49.46	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-47.18	3.35	-	51.43	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-55.09	3.35	5.06	48.58	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-47.17	3.35	-	51.44	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-55.25	3.35	5.06	48.42	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2370.576	-43.72	3.35	-	54.89	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2357.424	-54.45	3.35	5.06	49.22	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-47.41	3.35	-	51.2	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-55.23	3.35	5.06	48.44	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-45.93	3.35	-	52.68	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-54.83	3.35	4.95	48.73	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2493.016	-43.82	3.35	-	54.79	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2491.792	-54.4	3.35	4.95	49.16	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-47.8	3.35	-	50.81	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-55.48	3.35	4.95	48.08	Average	54	Pass

Test Graphs

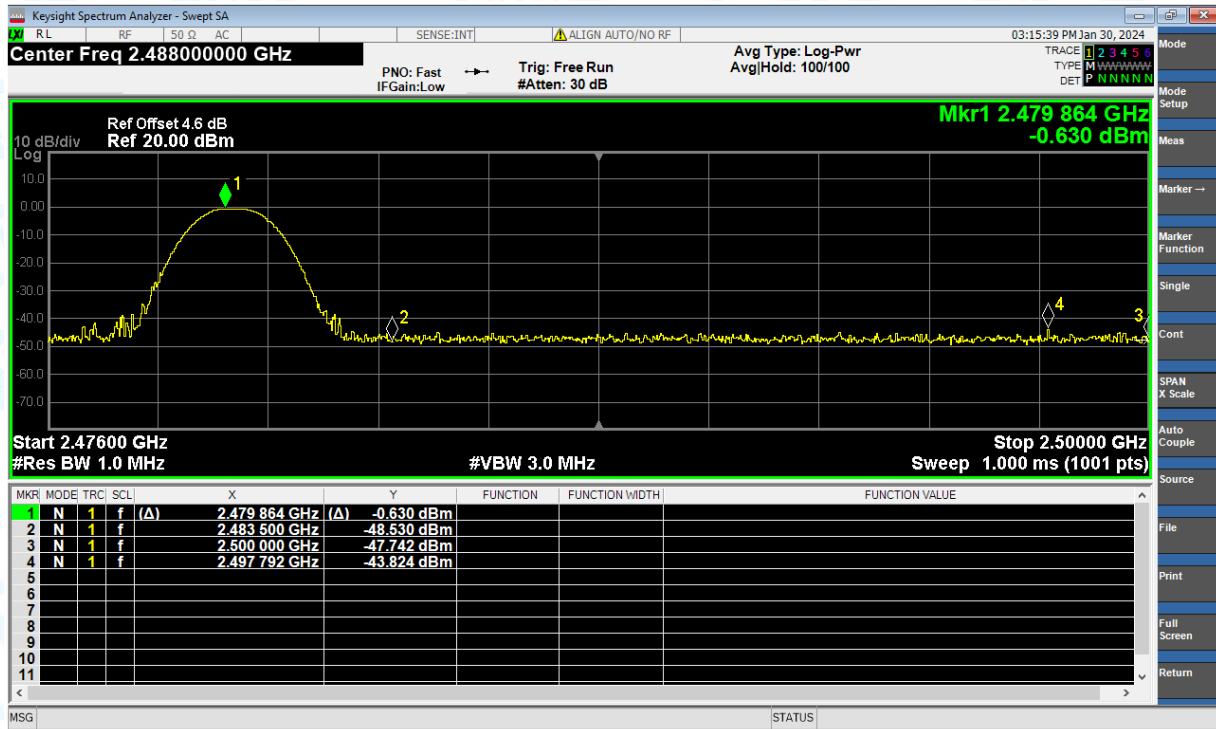
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



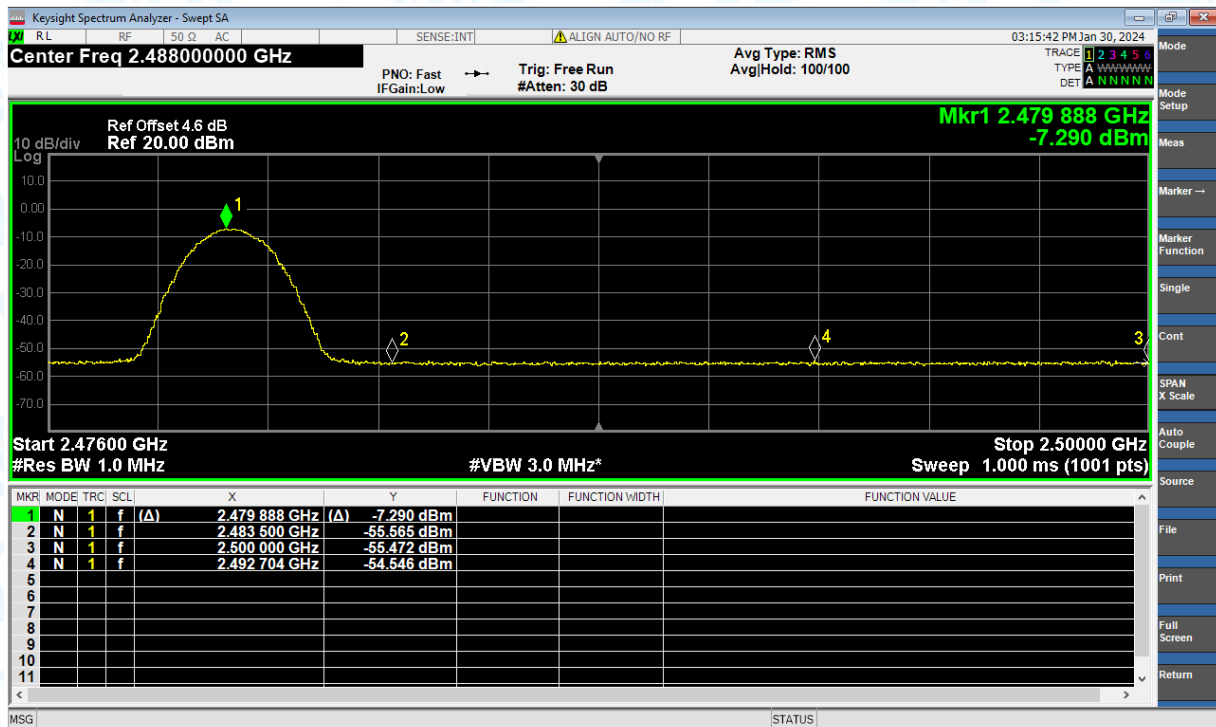
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



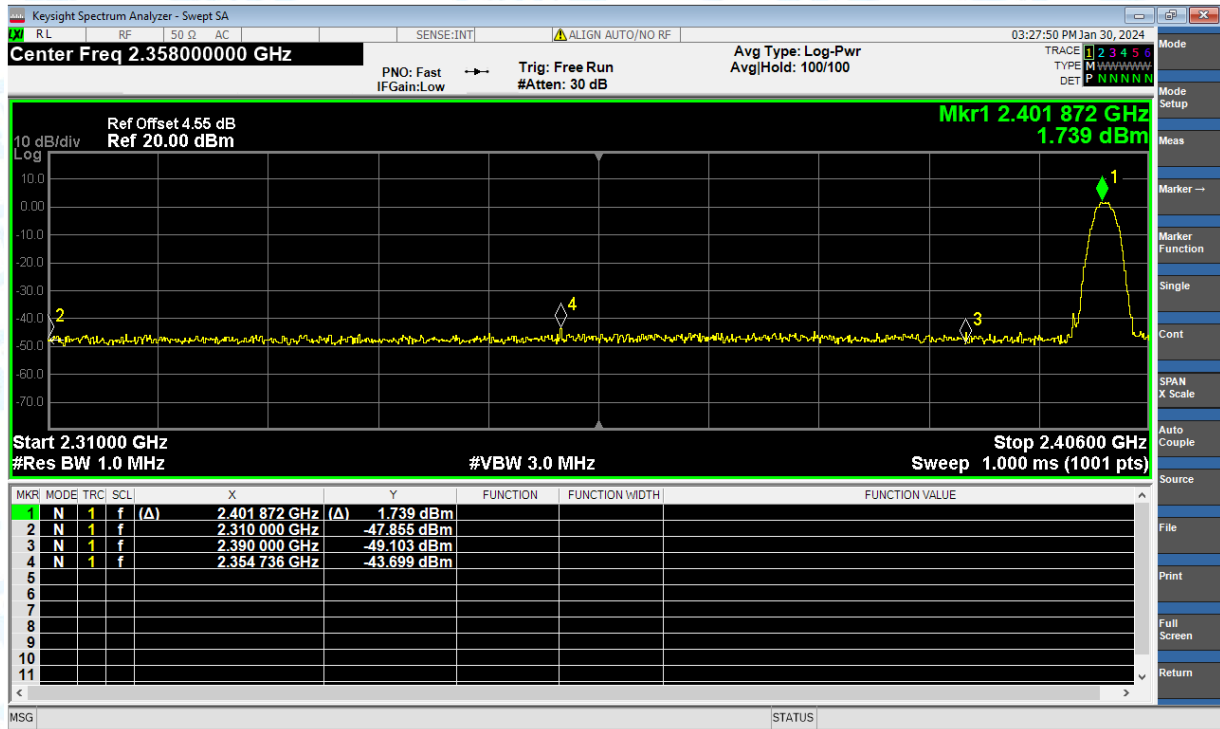
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



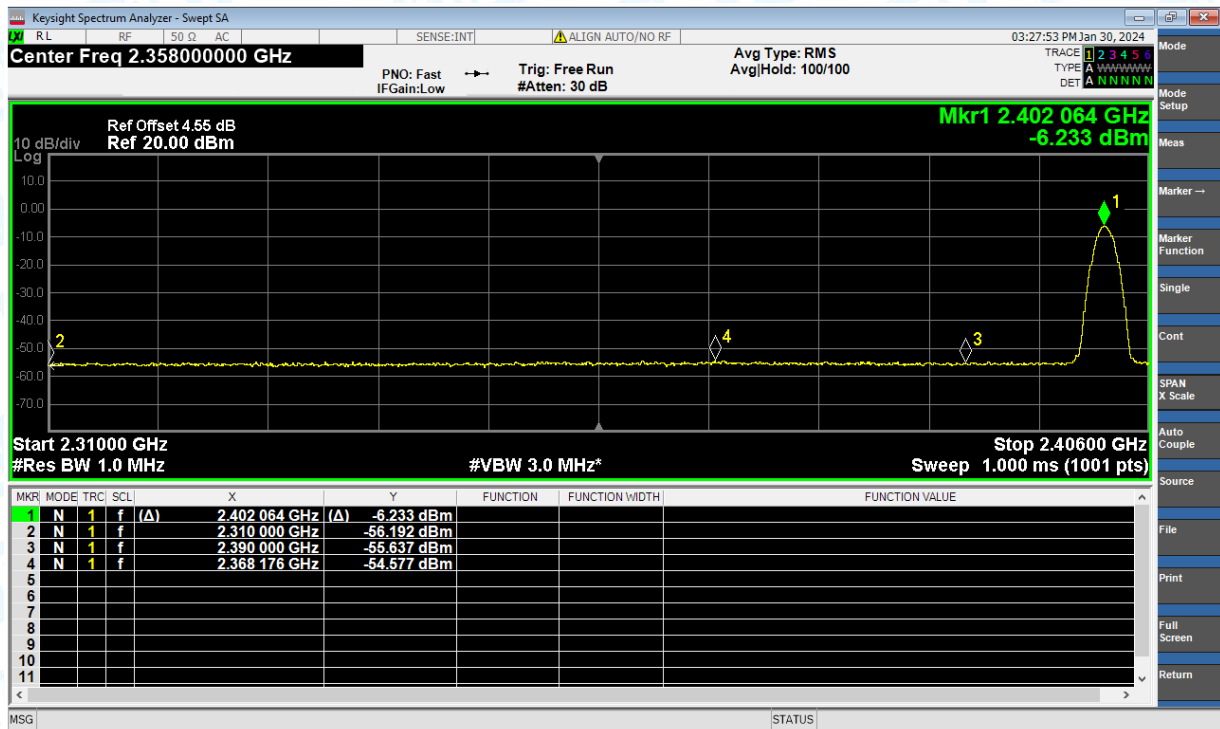
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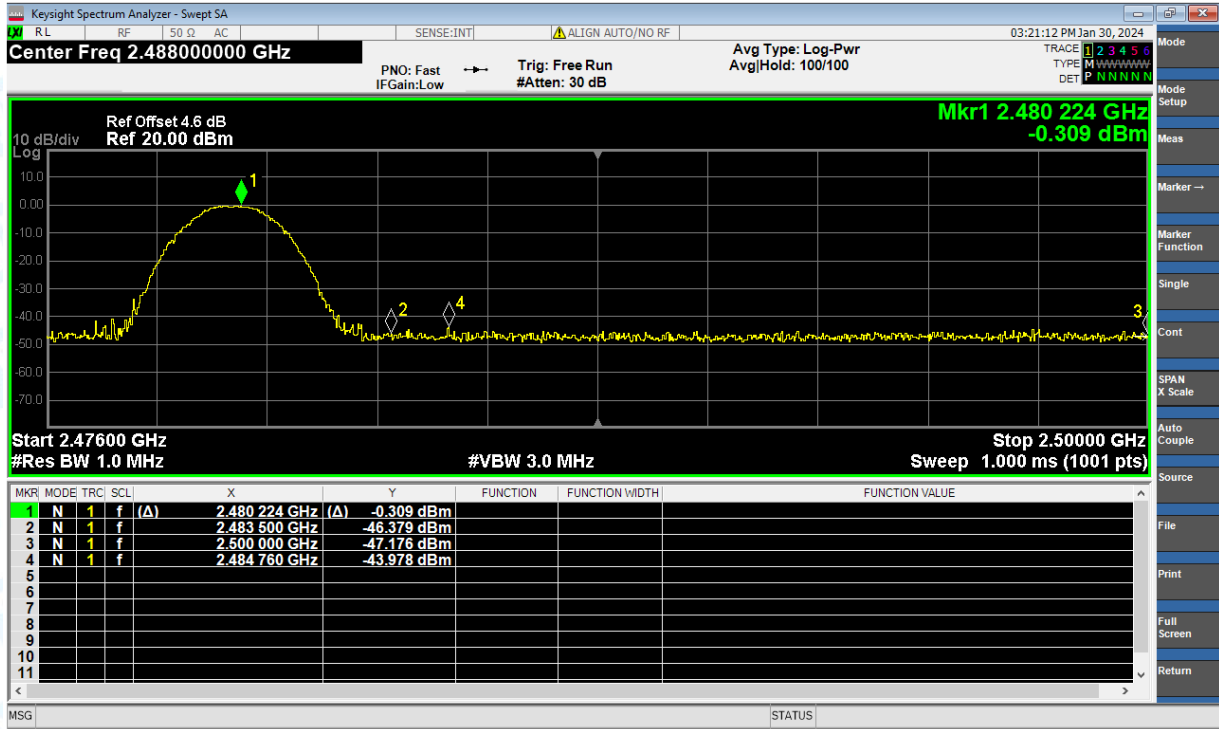
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



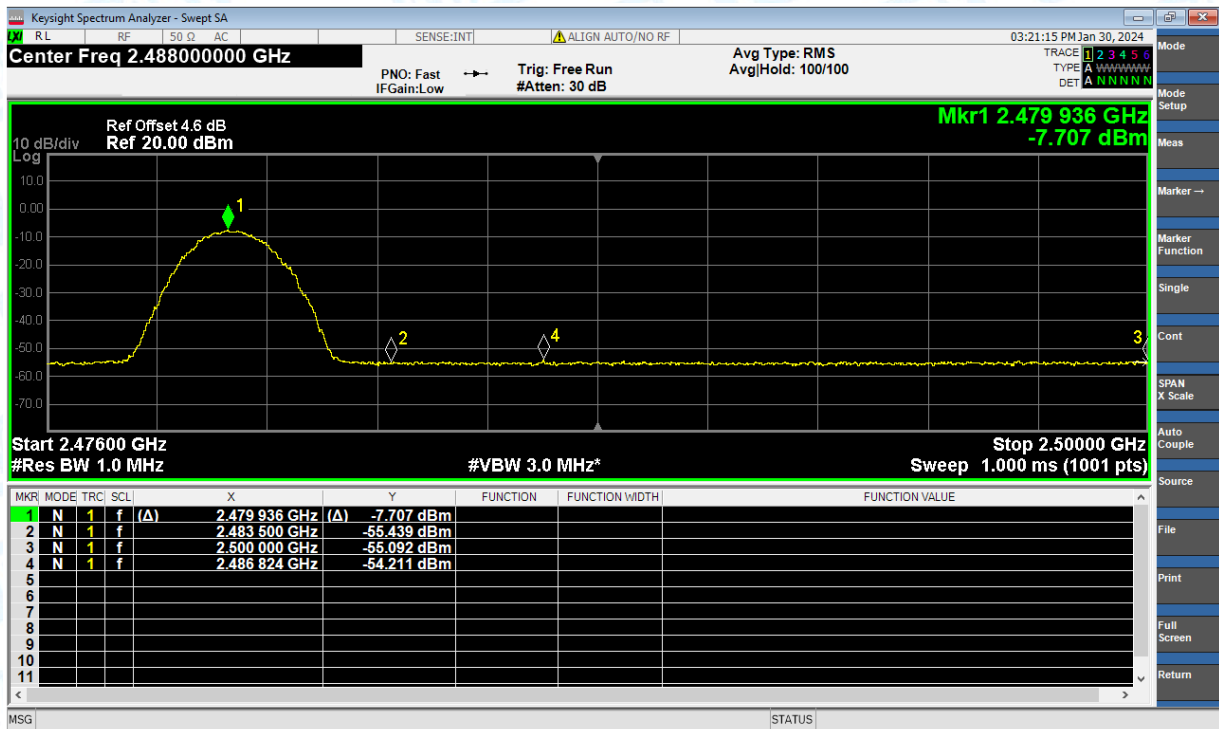
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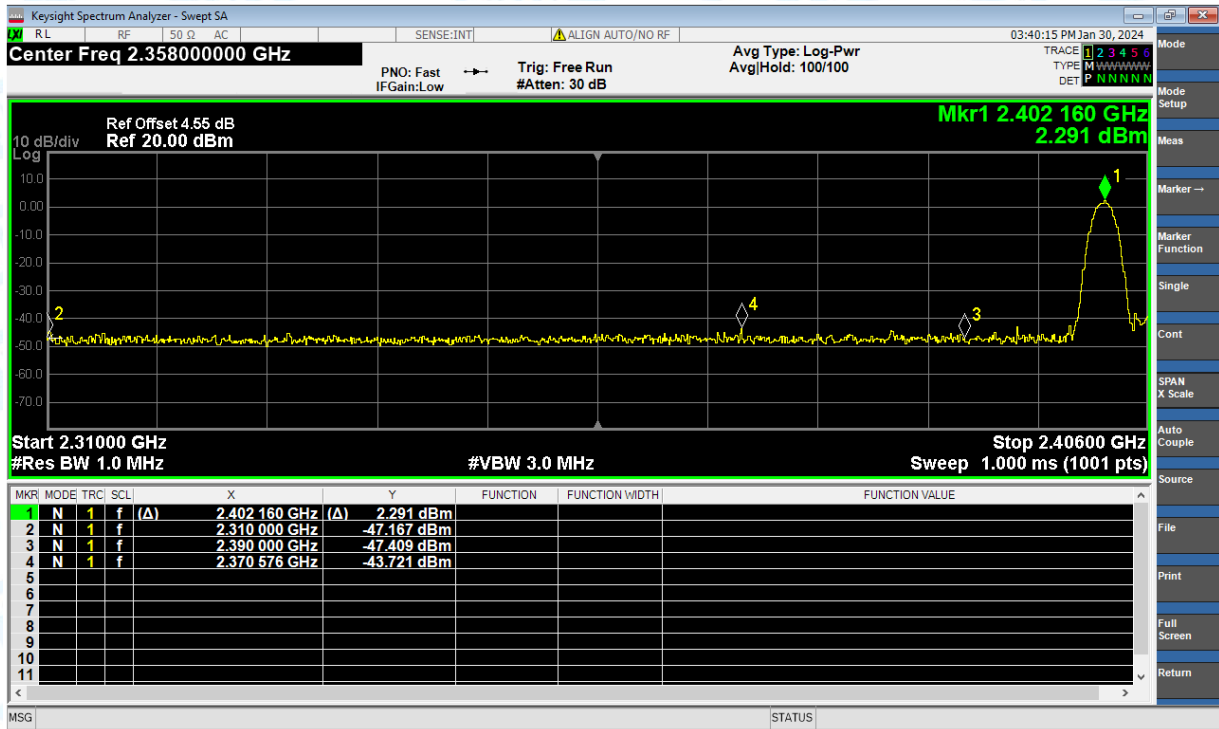
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak



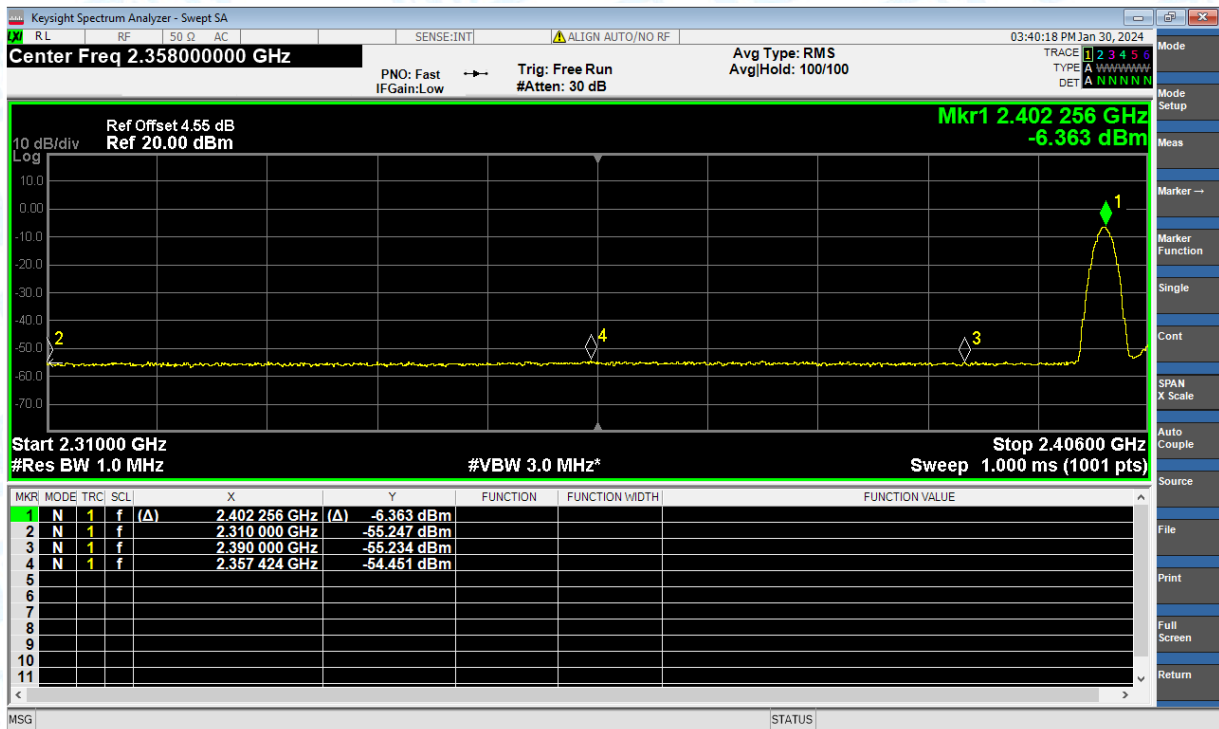
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Average



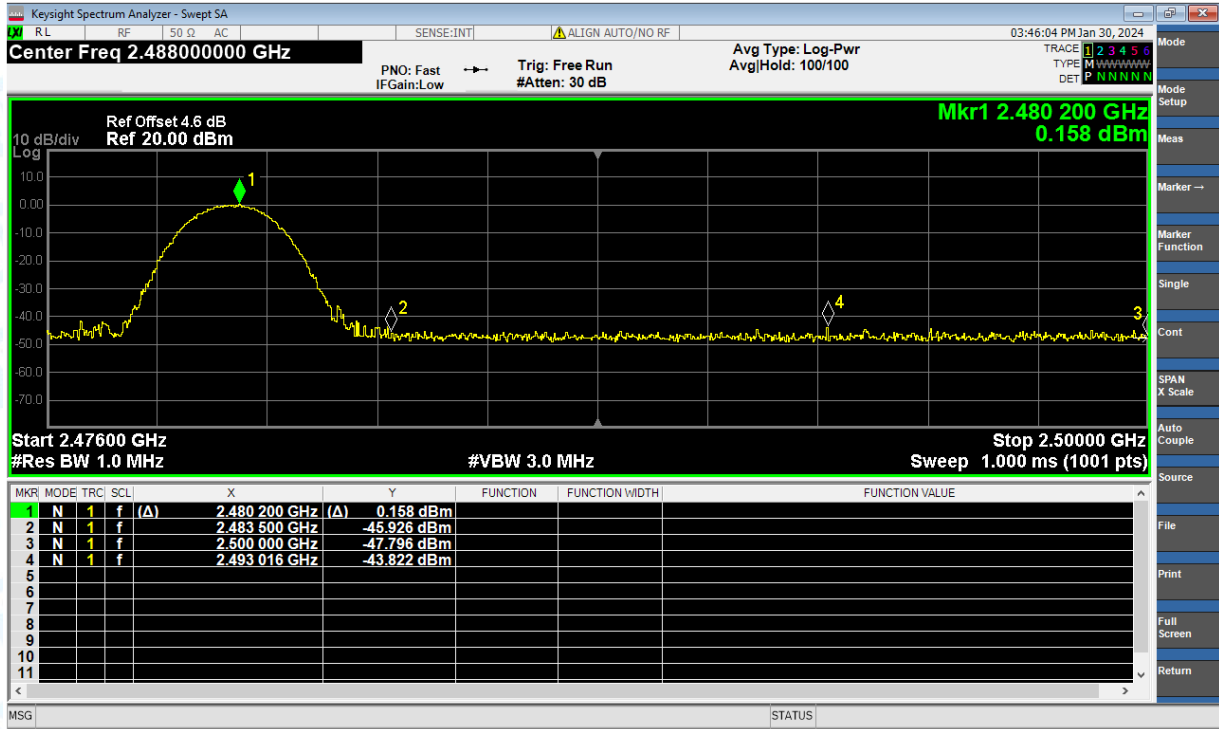
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Peak



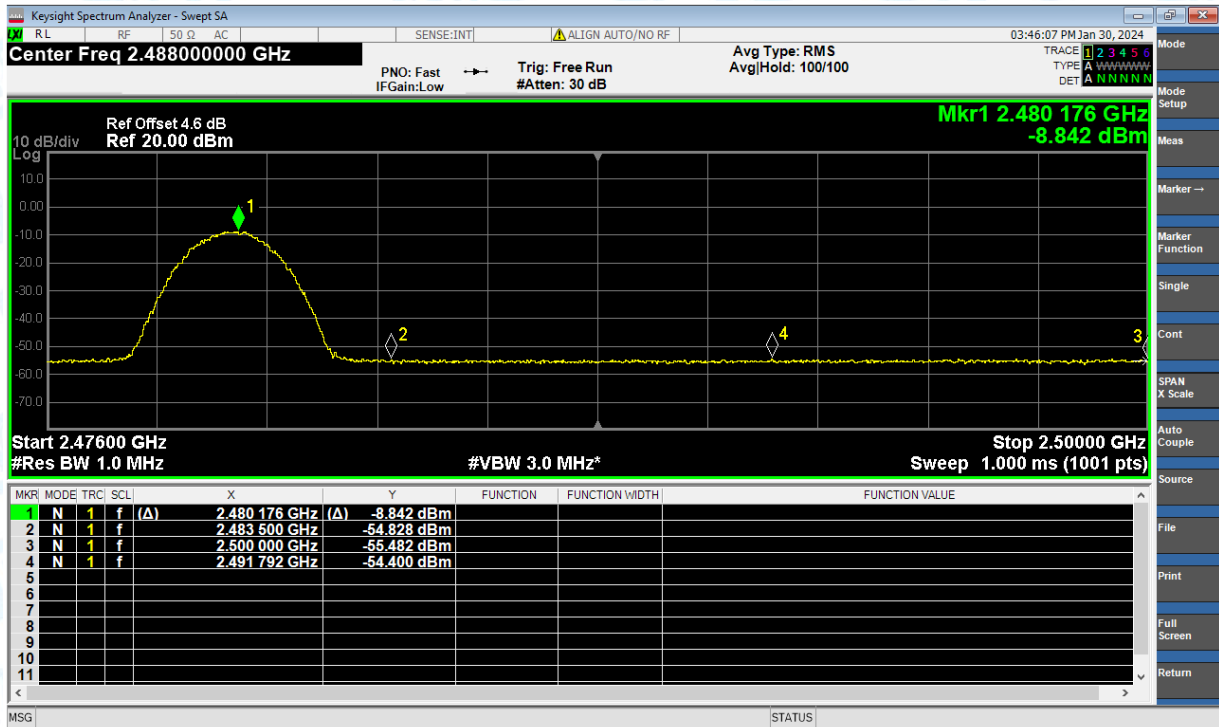
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Average



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



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



Carrier Frequencies Separation

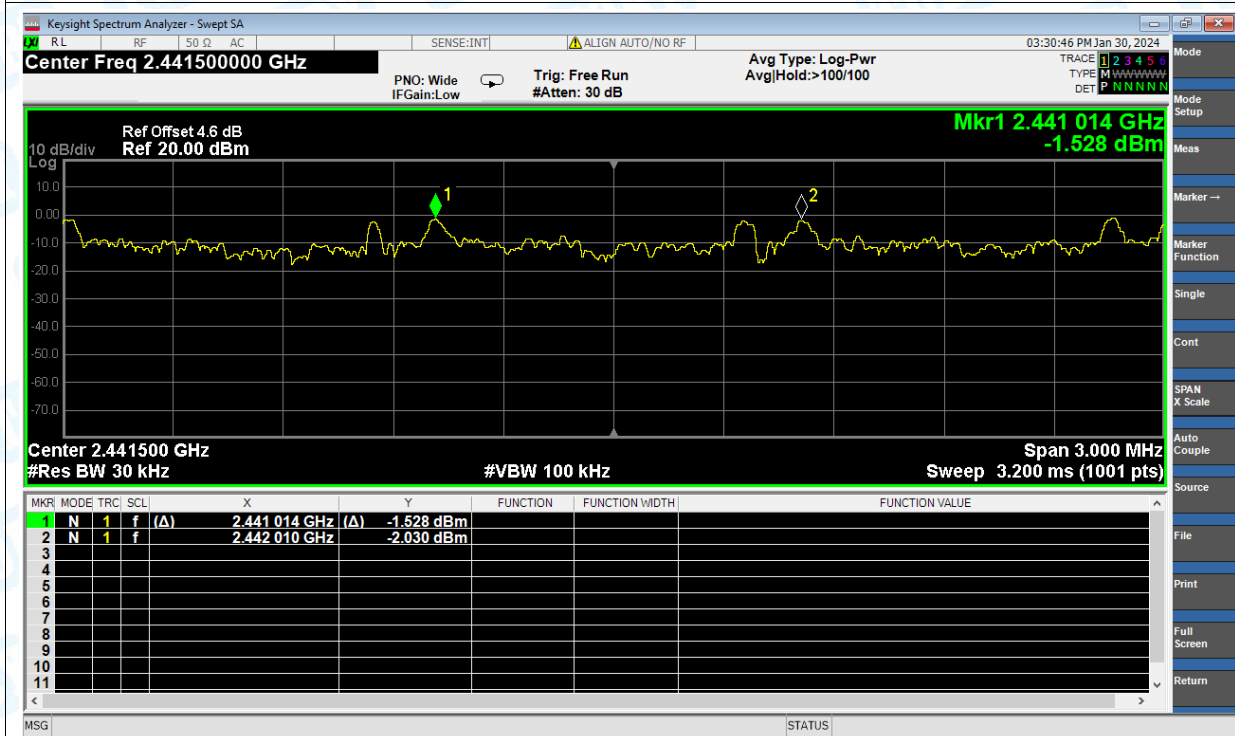
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2440.858	2441.854	0.996	0.613	Pass
NVNT	2-DH1	Ant1	2441.014	2442.01	0.996	0.84	Pass
NVNT	3-DH1	Ant1	2441.02	2442.016	0.996	0.025	Pass

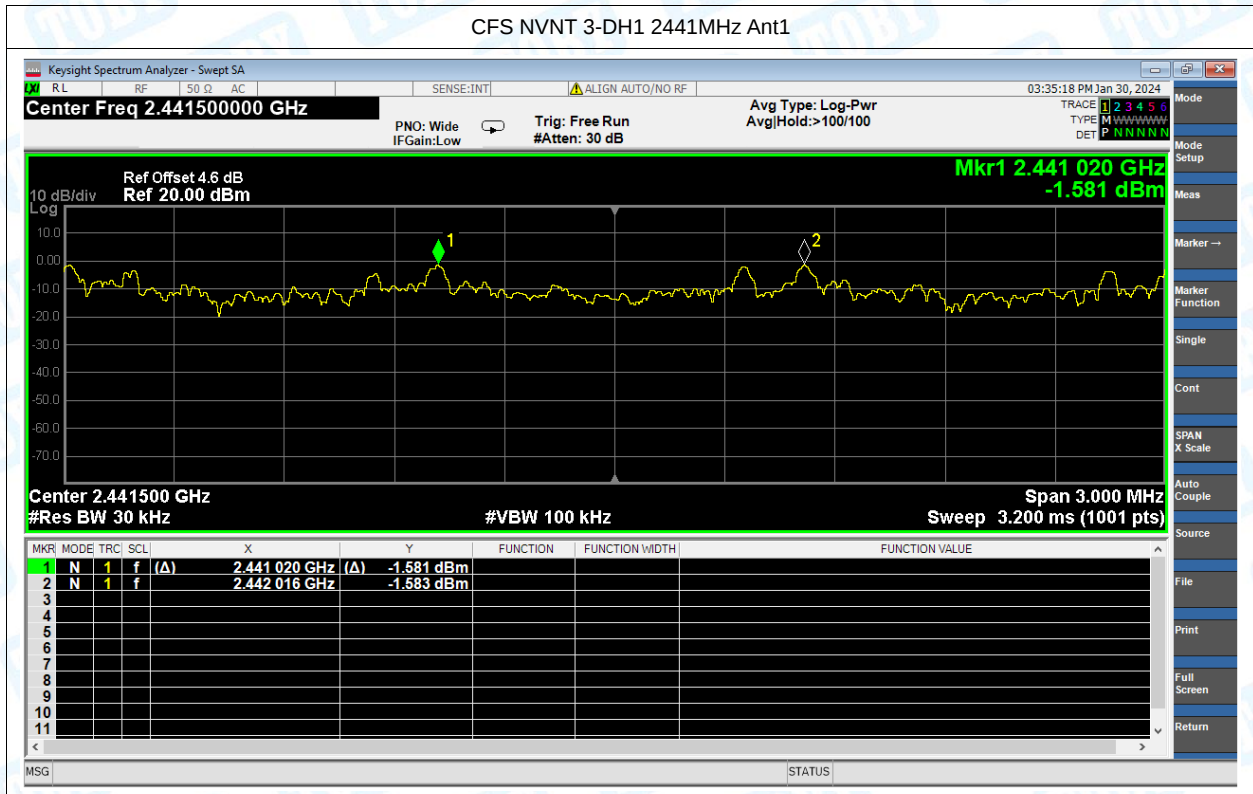
Test Graphs

CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1



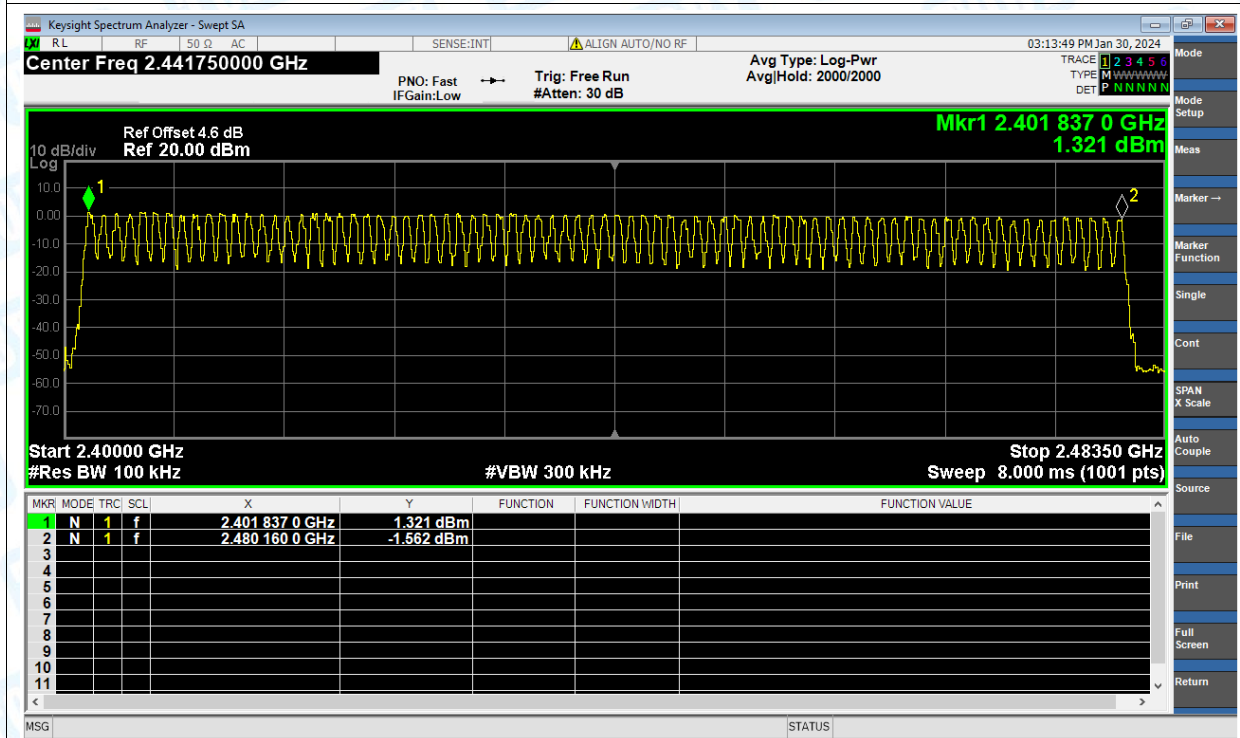


Number of Hopping Channel

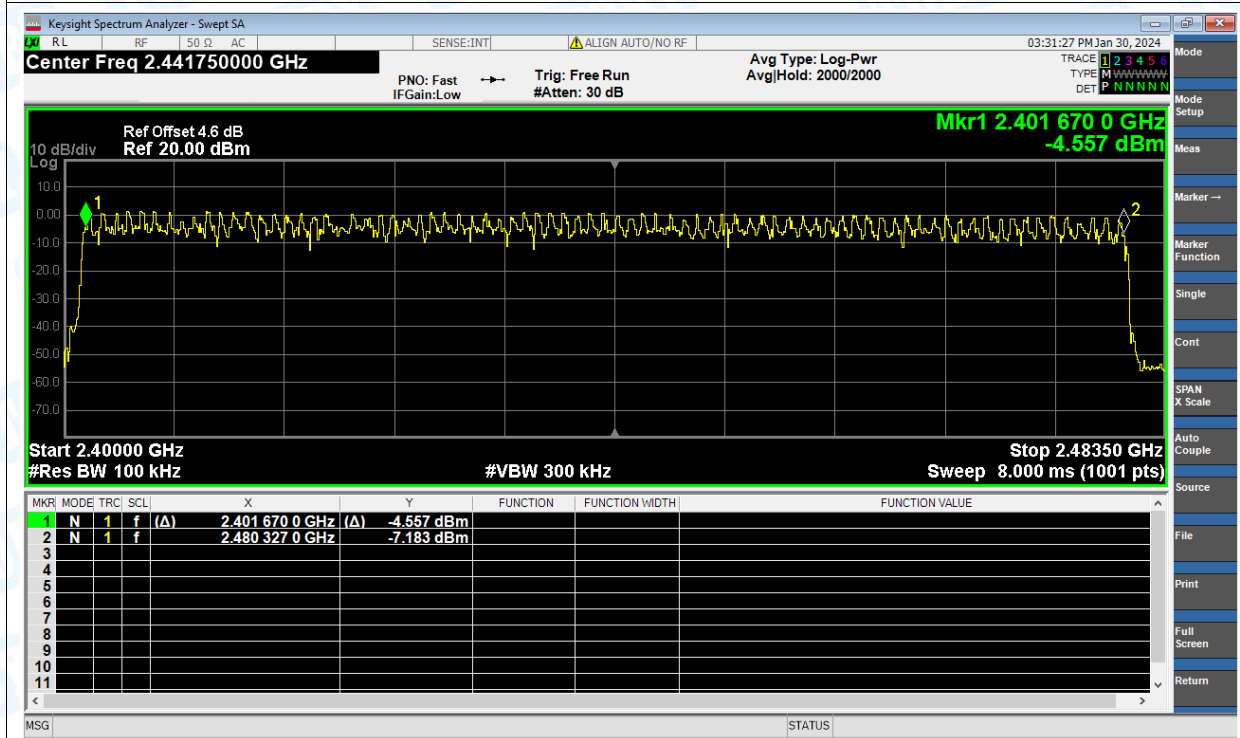
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

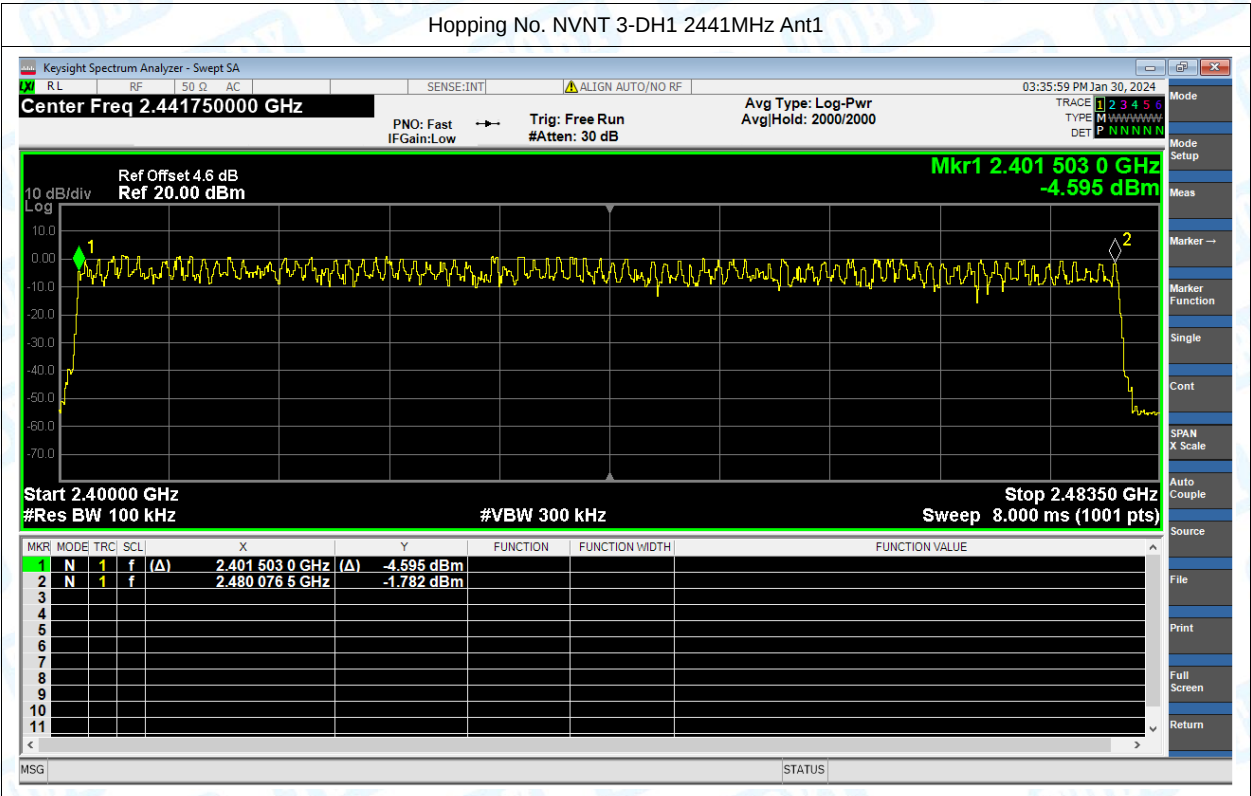
Test Graphs

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1



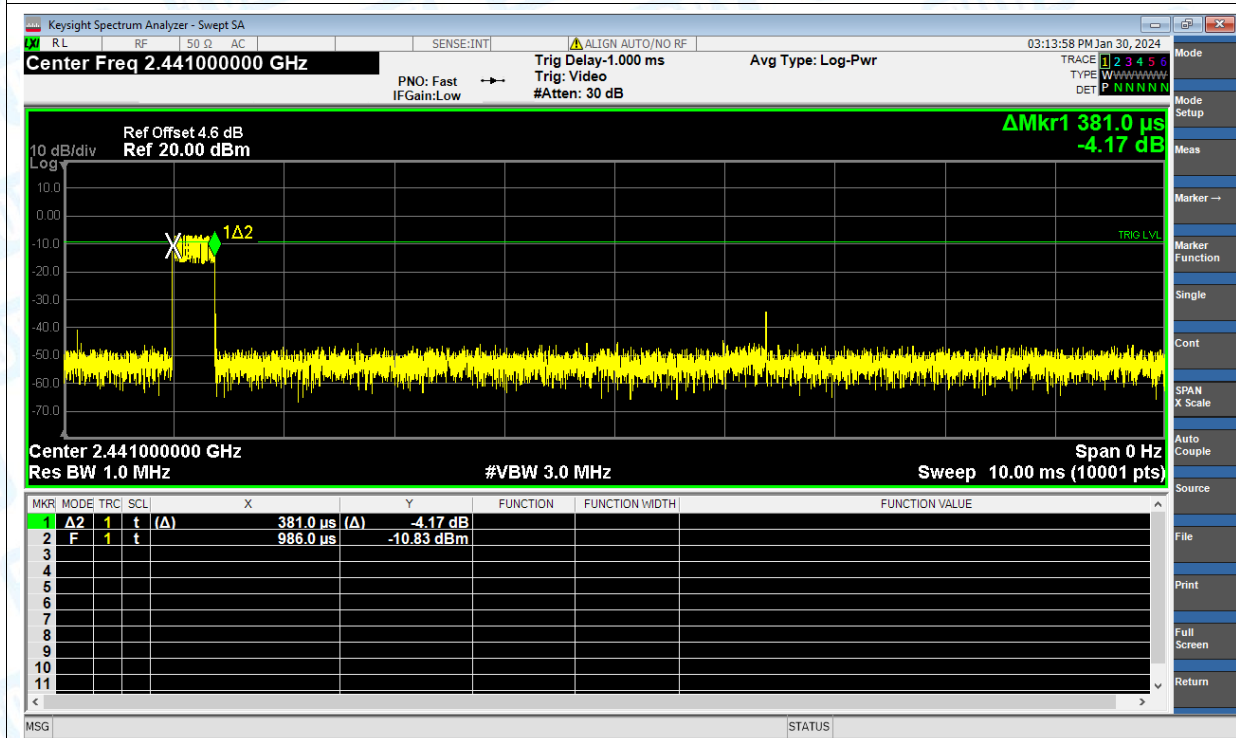


Dwell Time

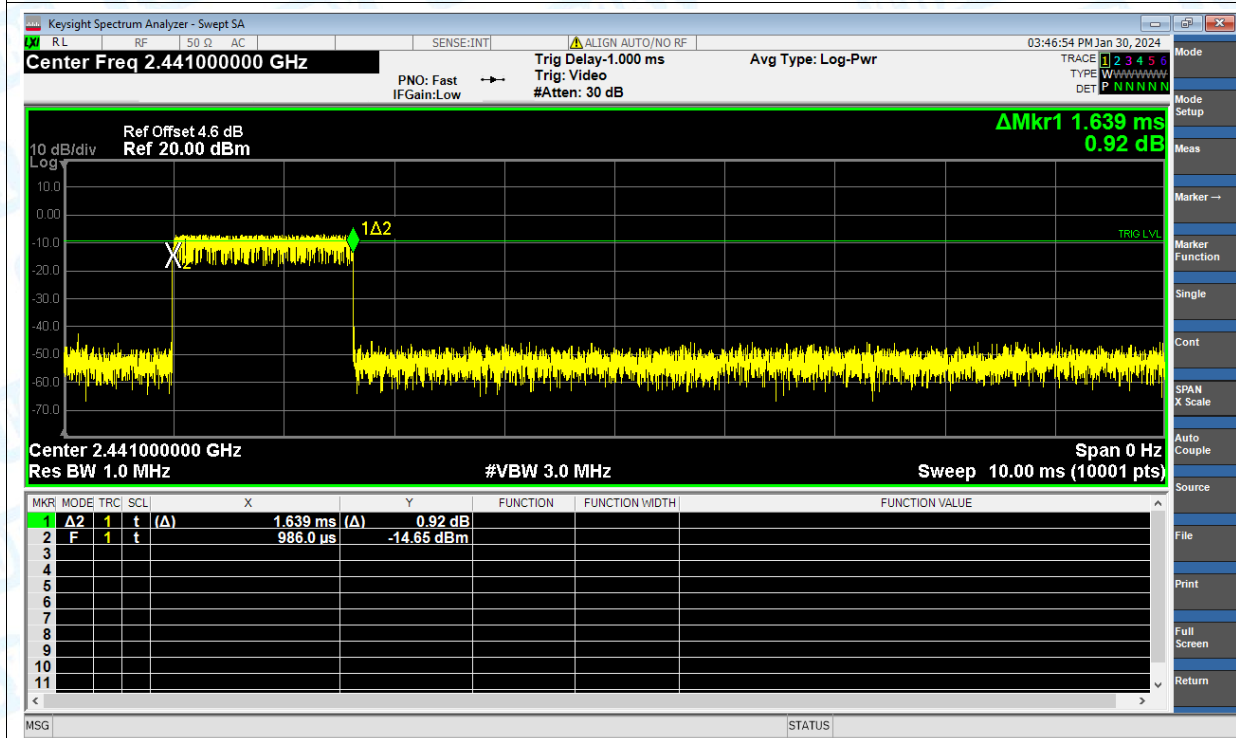
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.381	121.92	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.639	262.24	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.886	307.84	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.391	125.12	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.643	262.88	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.885	307.733	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.391	125.12	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.642	262.72	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.893	308.587	31600	400	Pass

Test Graphs

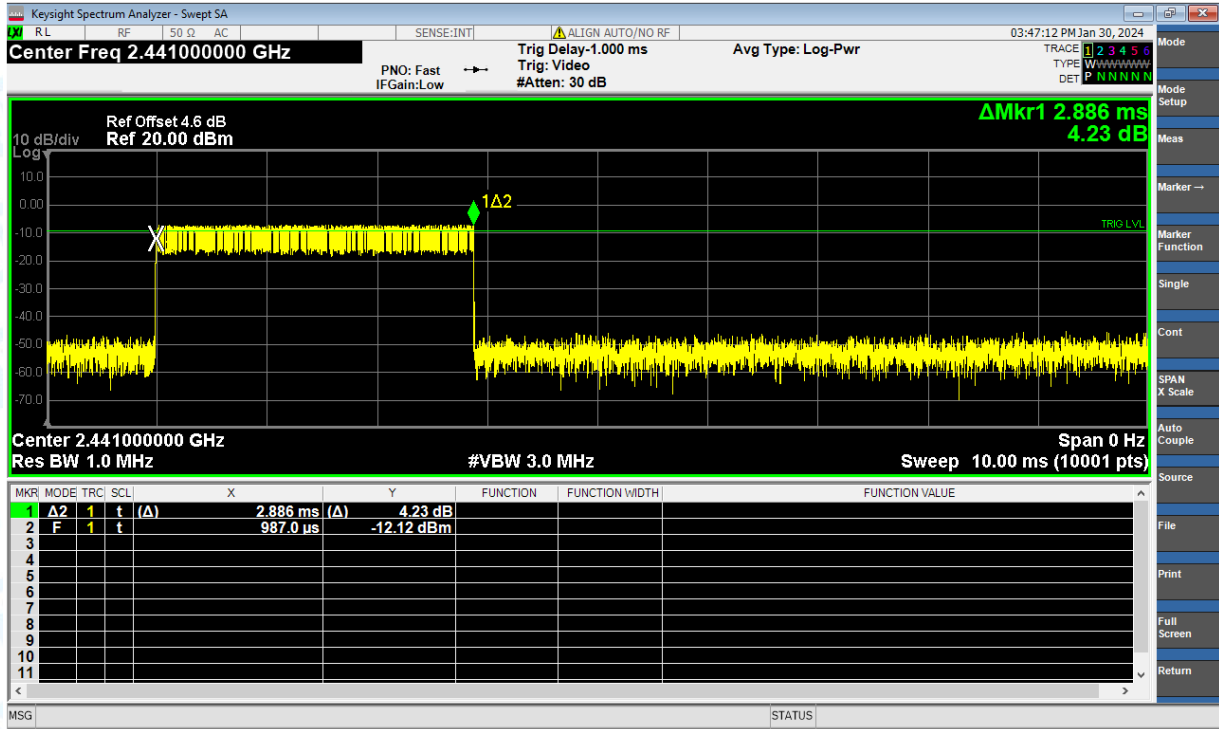
Dwell NVNT 1-DH1 2441MHz Ant1



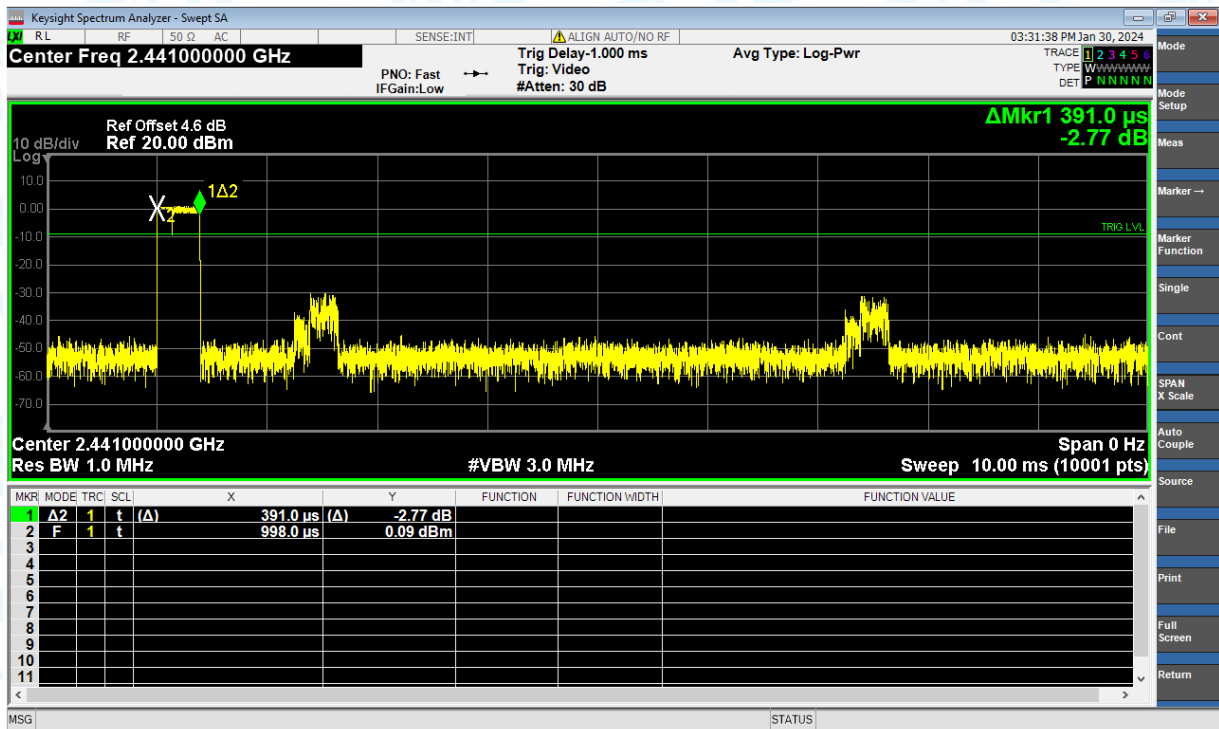
Dwell NVNT 1-DH3 2441MHz Ant1



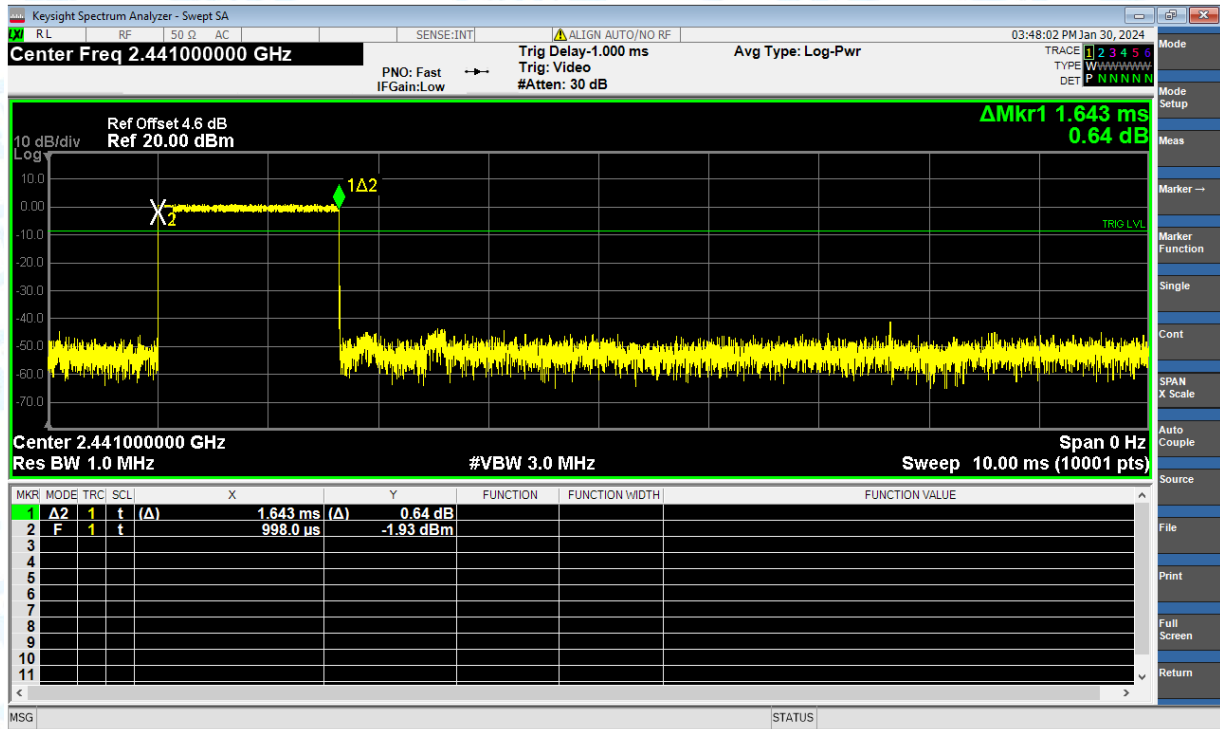
Dwell NVNT 1-DH5 2441MHz Ant1



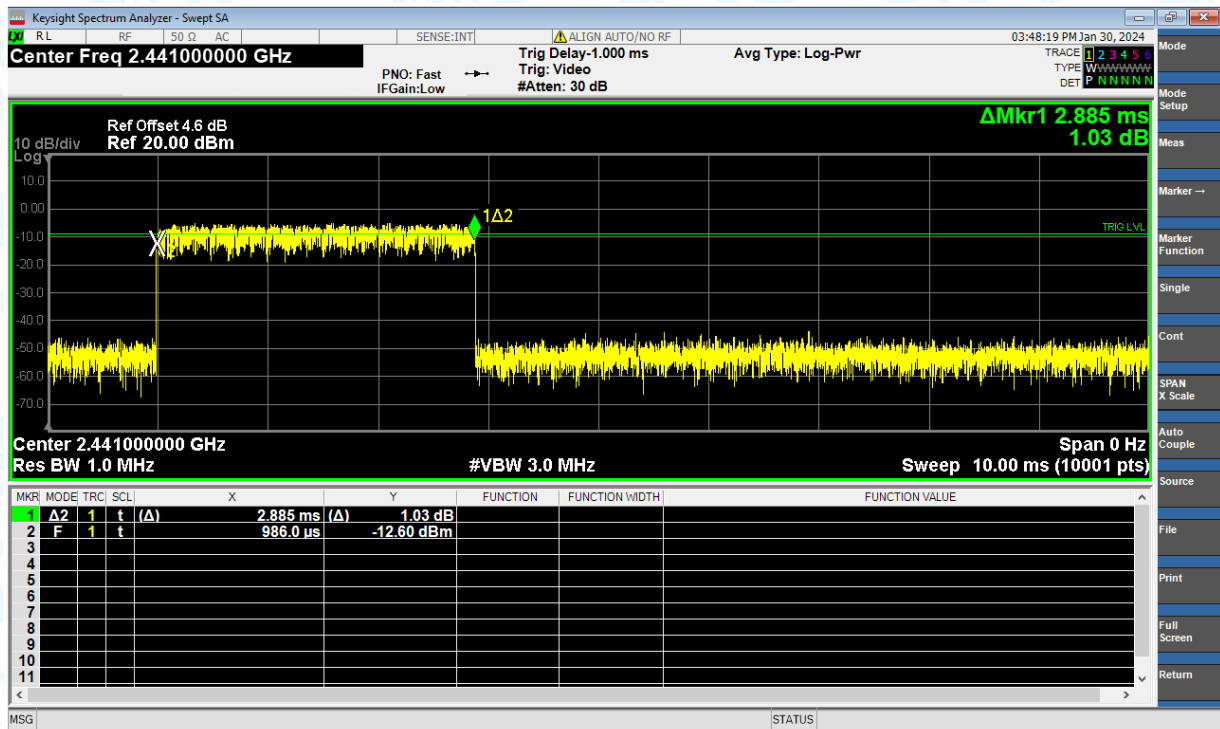
Dwell NVNT 2-DH1 2441MHz Ant1



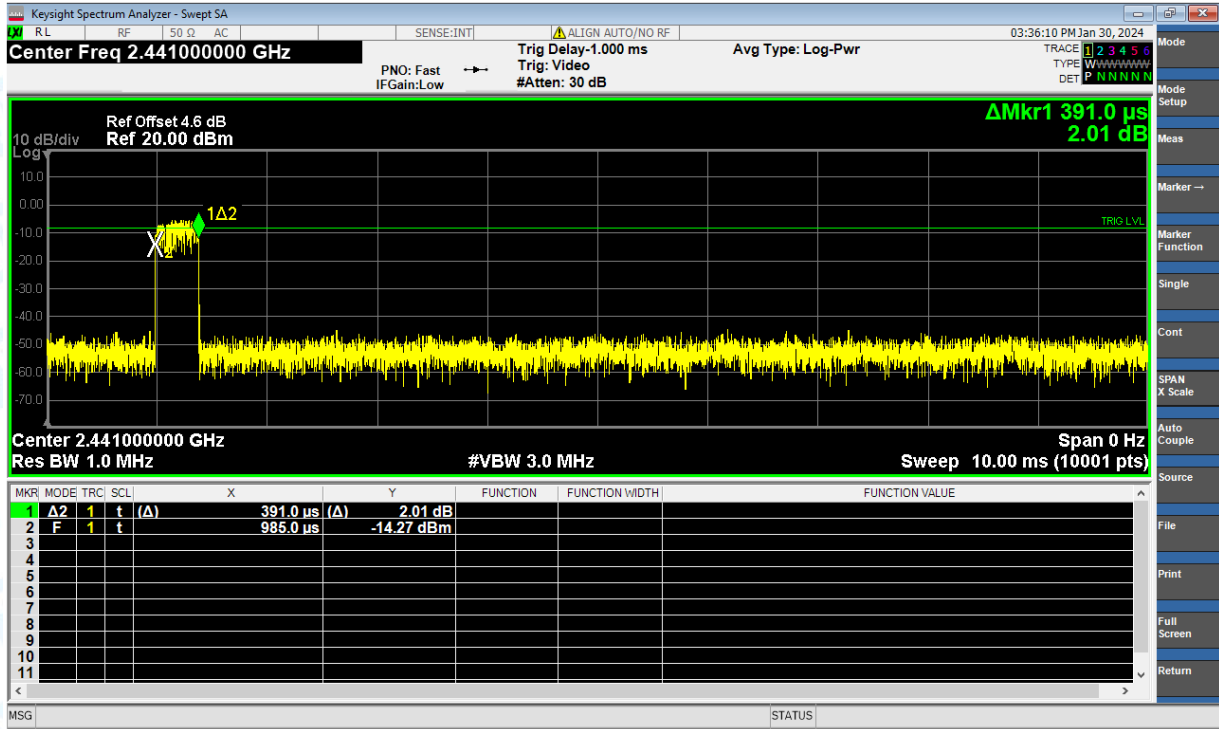
Dwell NVNT 2-DH3 2441MHz Ant1



Dwell NVNT 2-DH5 2441MHz Ant1



Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1

