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

General Description of EUT	
Product Name:	Tablet
Test Model:	Q2
Sample ID:	202404-0010-4-2#
Environmental Conditions	
Temperature:	25℃
Relative Humidity:	55%
Test Voltage:	DC 3.85V
Test Engineer:	ZKN Zhou
Note: For a more detailed features description, please refer to the report TBR-C-202404-0010-51 The report only show the worst case data.	

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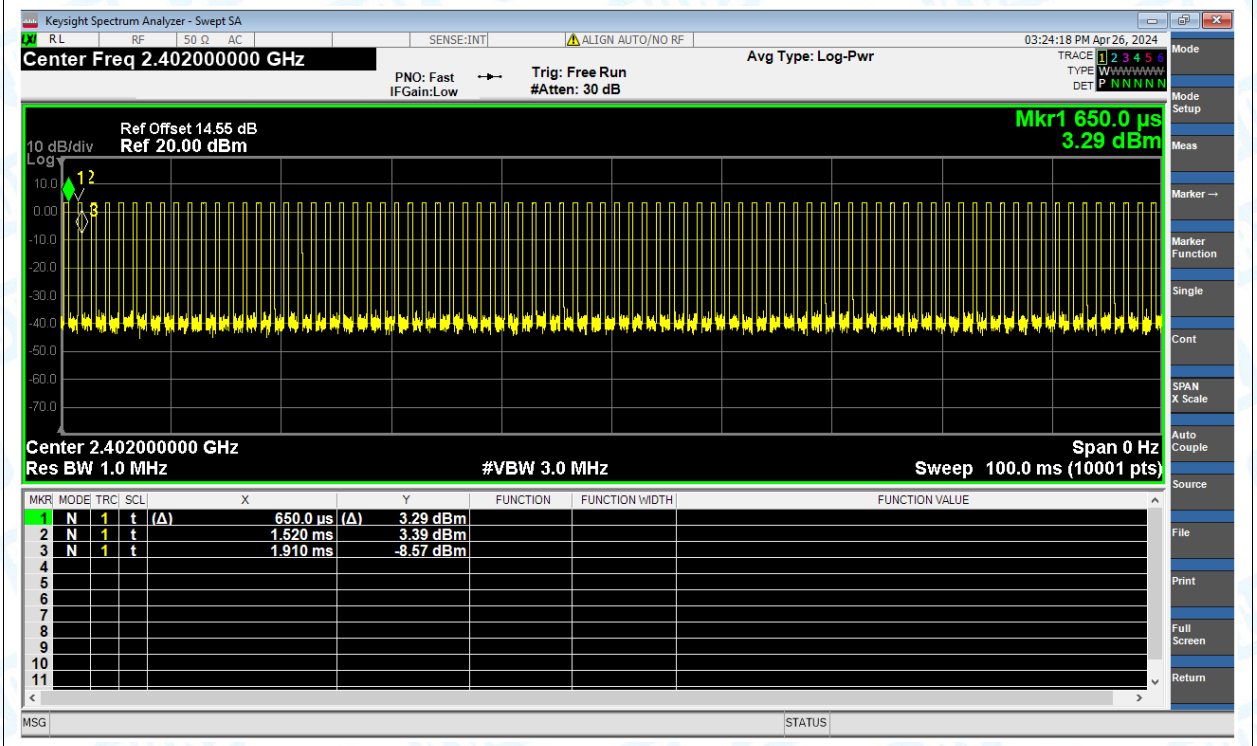
1. Duty Cycle

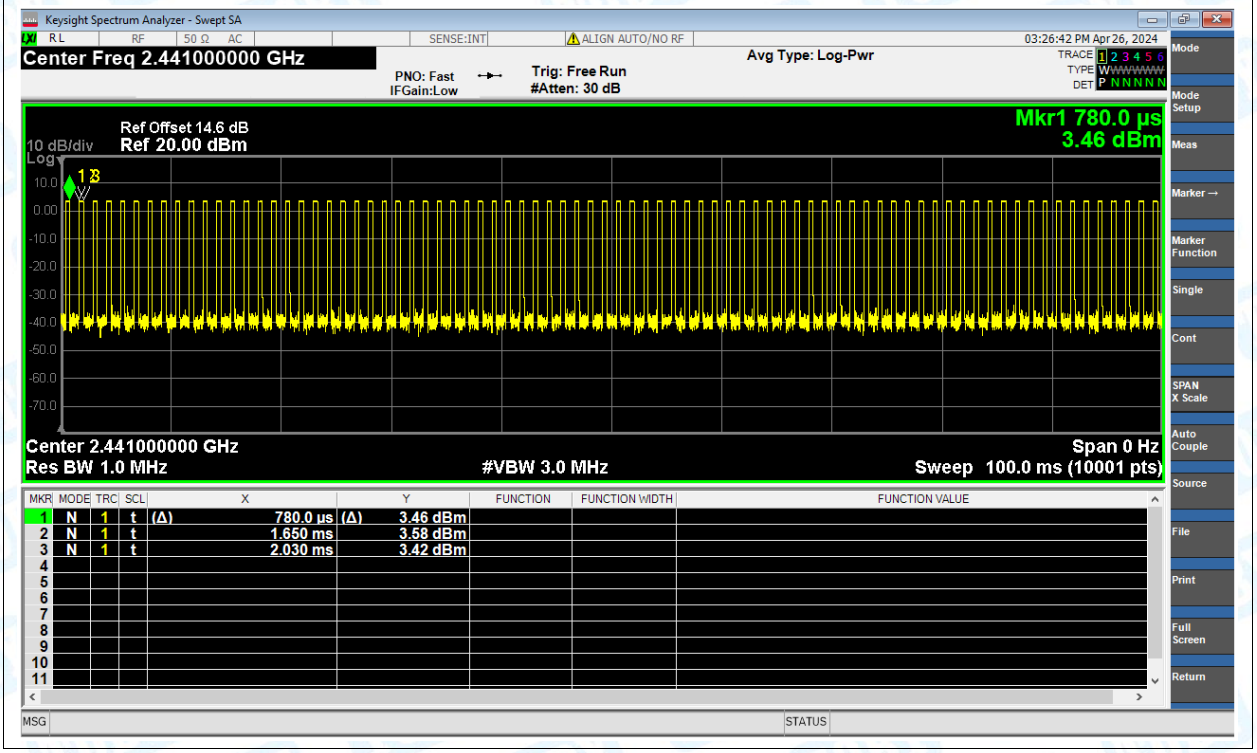
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	30.95	5.09	2.56
NVNT	1-DH1	2441	Ant1	30.4	5.17	2.63
NVNT	1-DH1	2480	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2402	Ant1	32	4.95	2.5
NVNT	2-DH1	2441	Ant1	32	4.95	2.5
NVNT	2-DH1	2480	Ant1	31.2	5.06	2.56
NVNT	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	31.2	5.06	2.56

Test Graphs

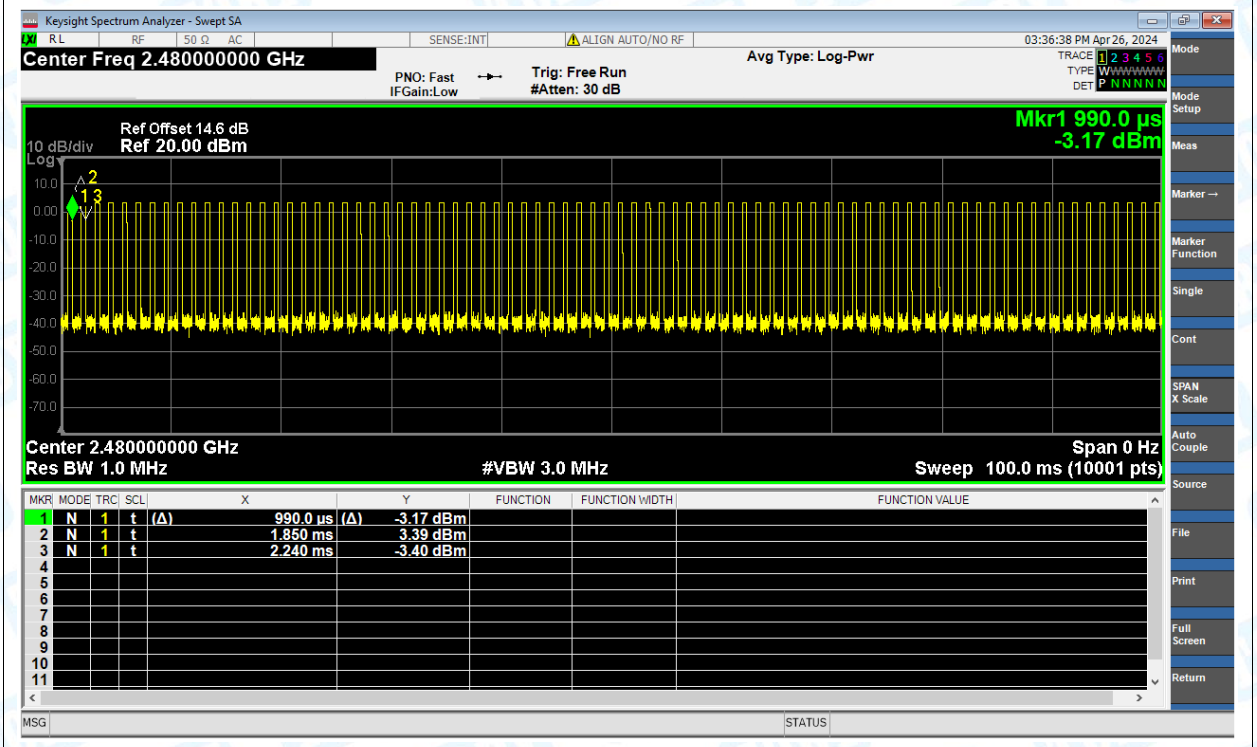
Duty Cycle NVNT 1-DH1 2402MHz Ant1



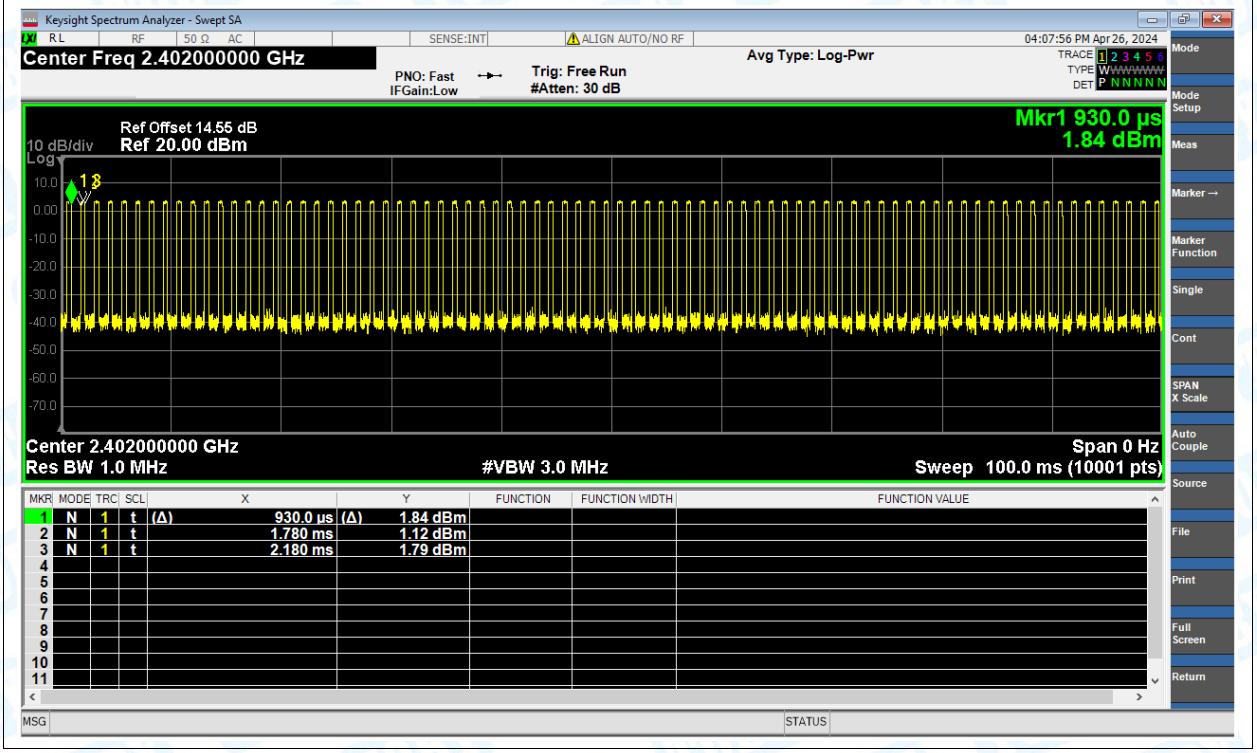
Duty Cycle NVNT 1-DH1 2441MHz Ant1



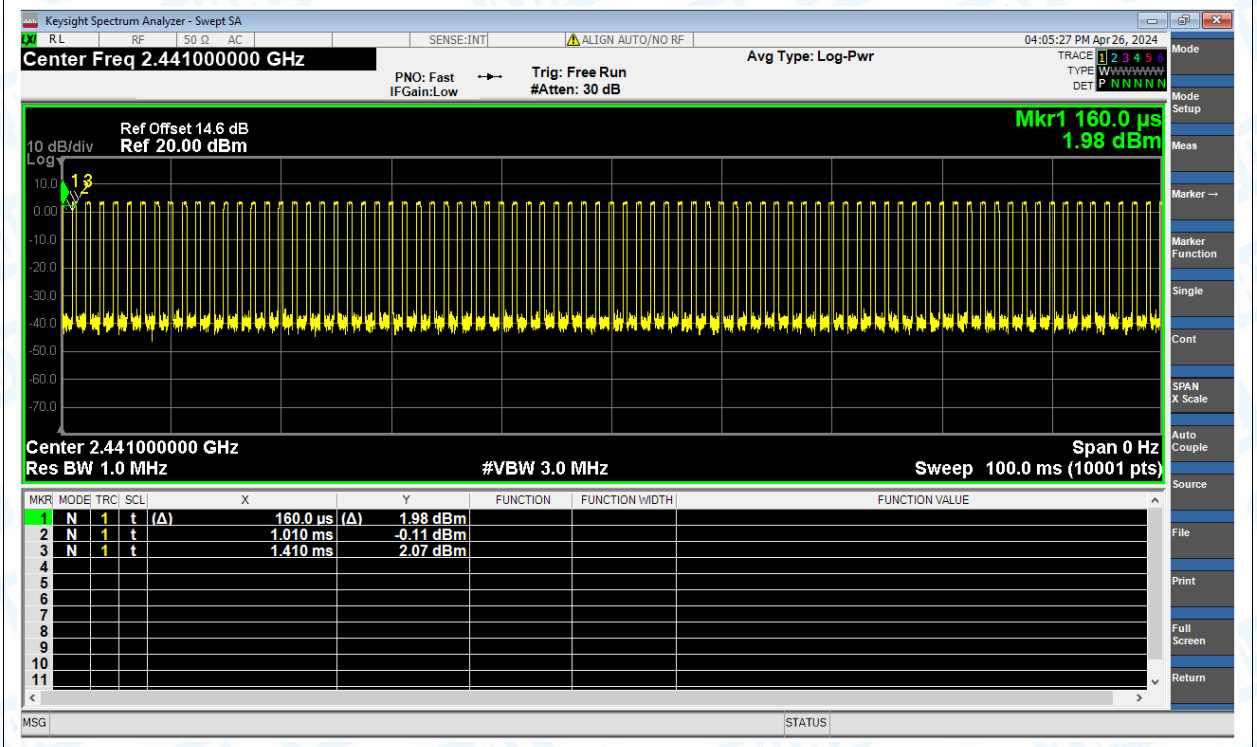
Duty Cycle NVNT 1-DH1 2480MHz Ant1



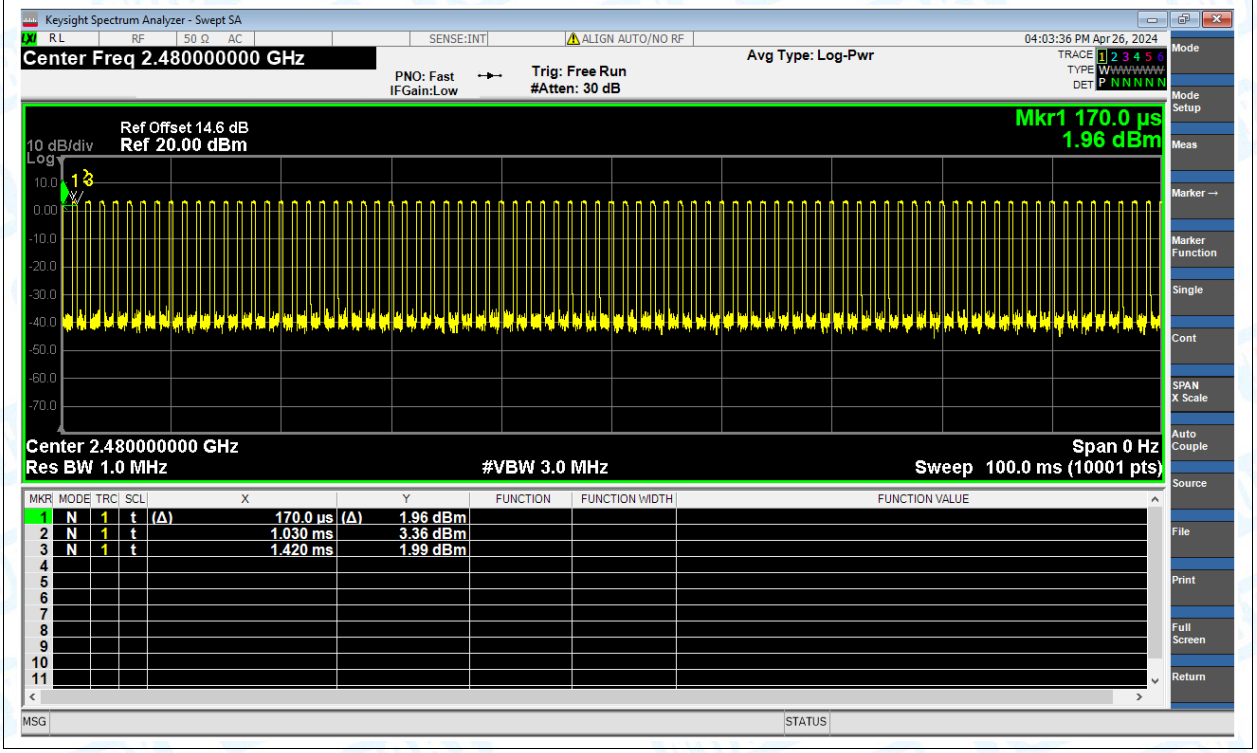
Duty Cycle NVNT 2-DH1 2402MHz Ant1



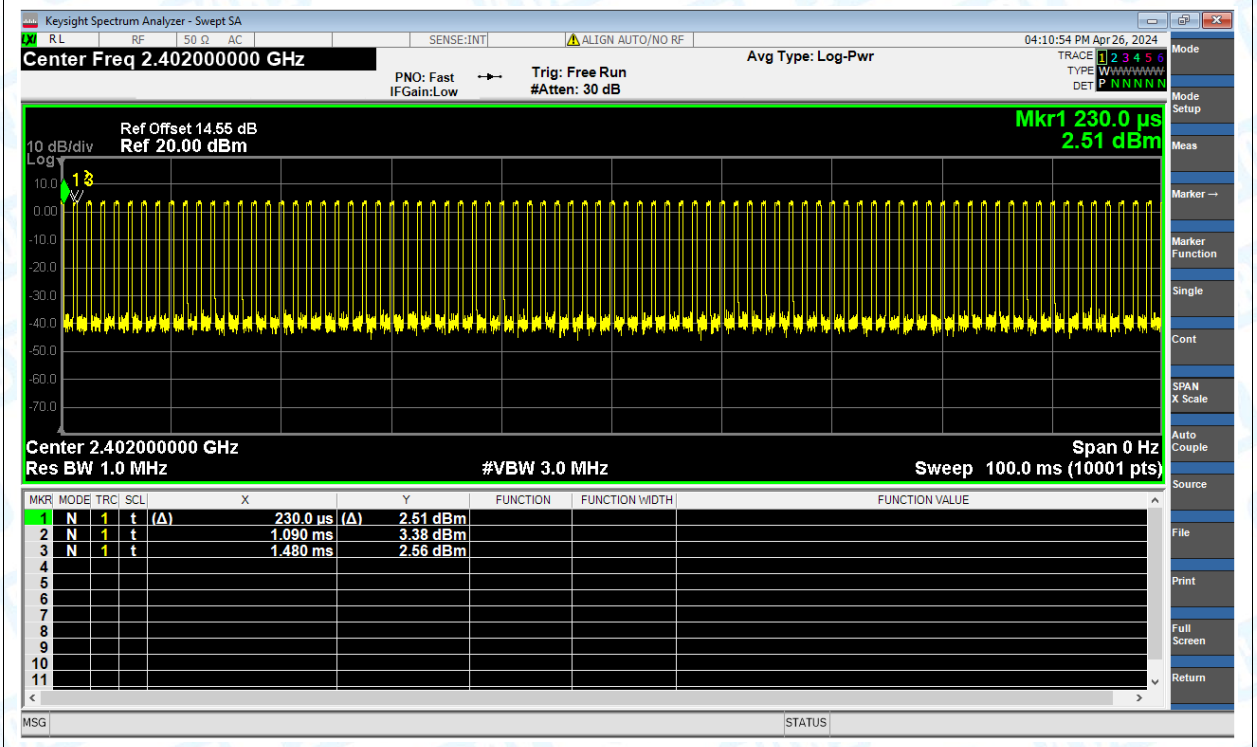
Duty Cycle NVNT 2-DH1 2441MHz Ant1



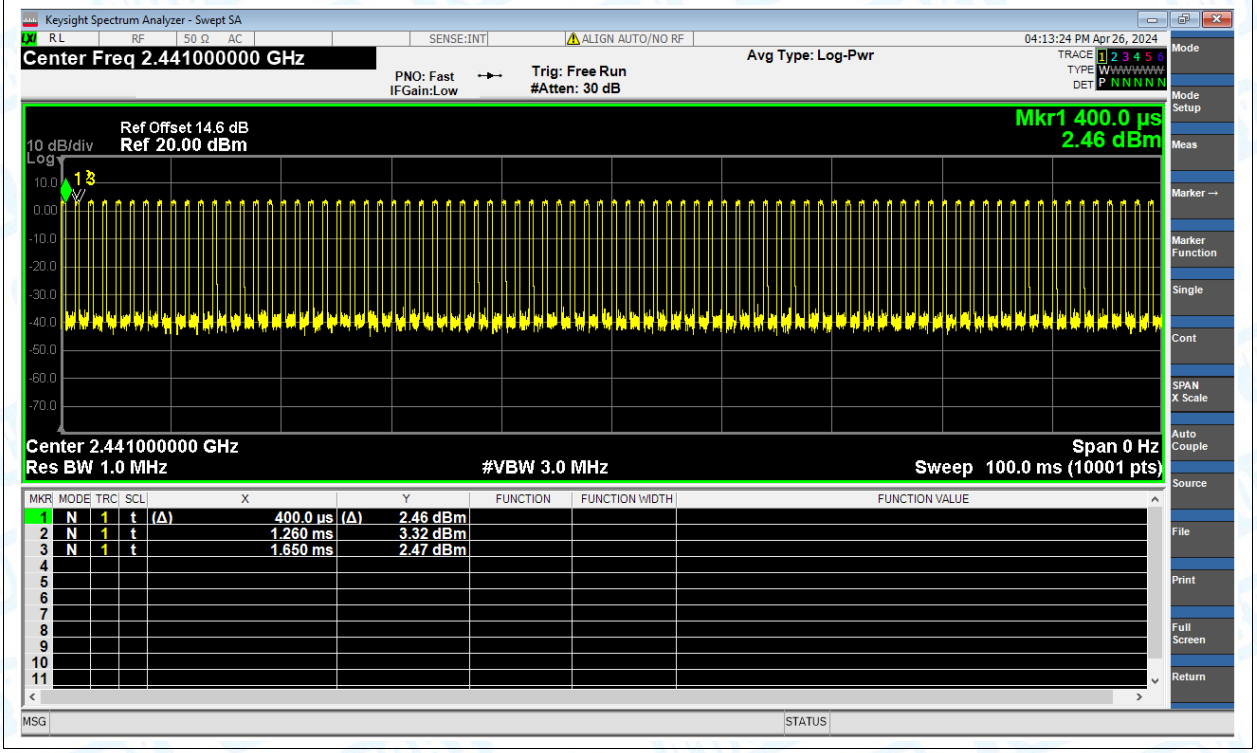
Duty Cycle NVNT 2-DH1 2480MHz Ant1



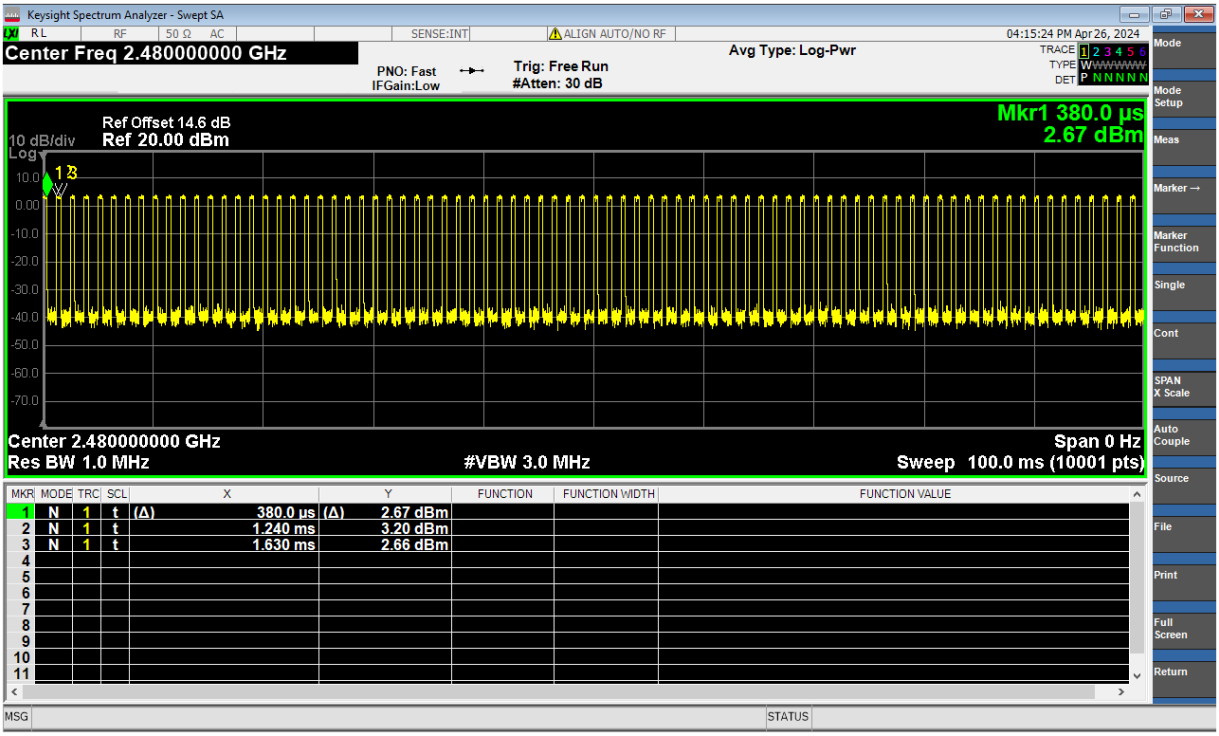
Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1



Duty Cycle NVNT 3-DH1 2480MHz Ant1

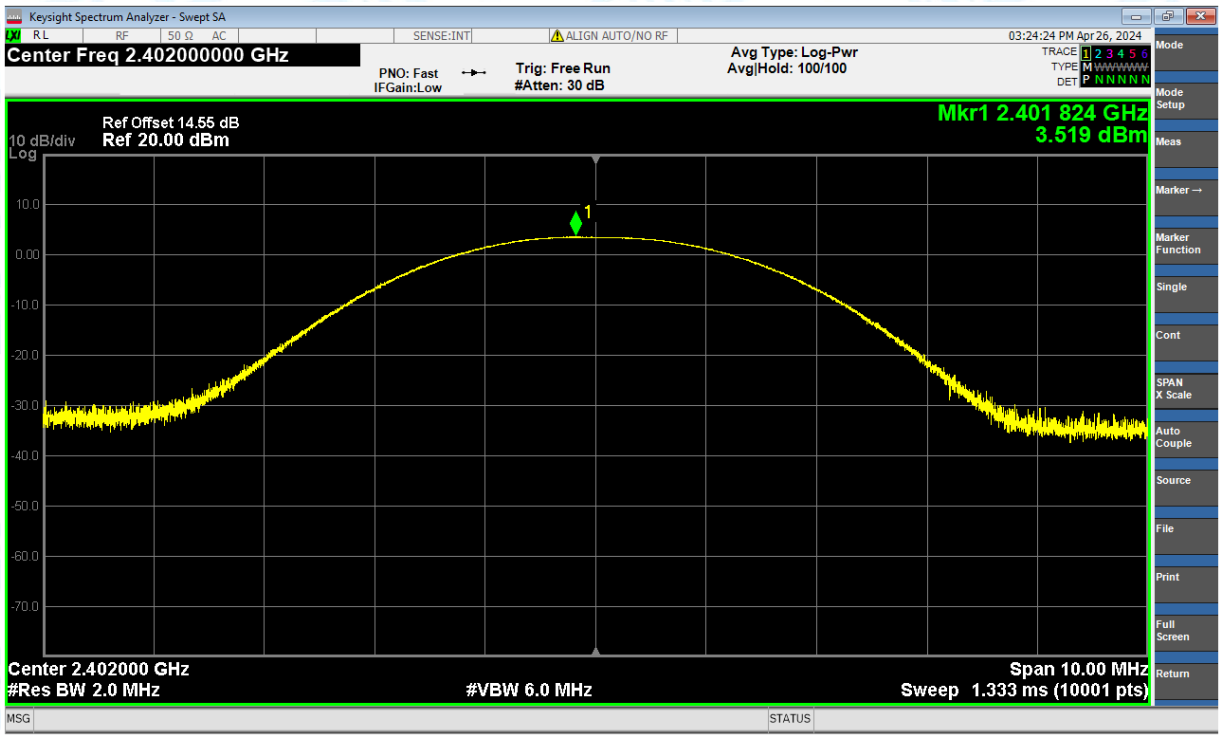


2. Maximum Conducted Output Power

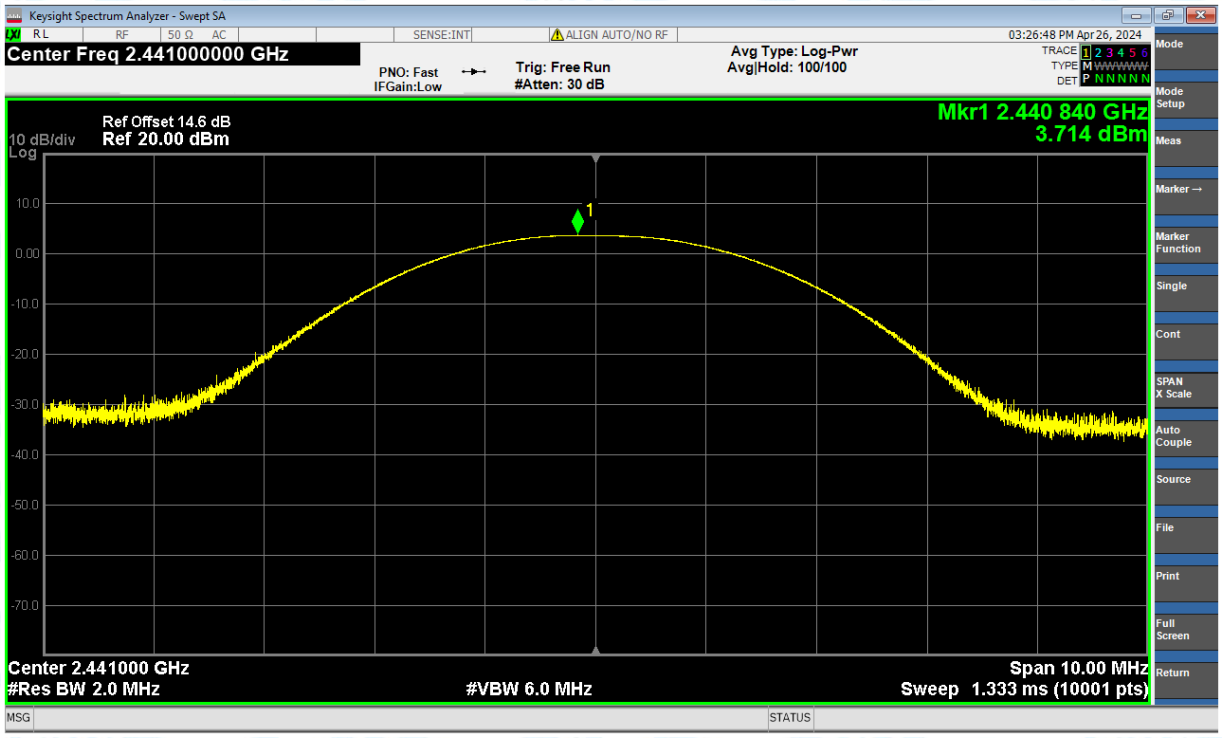
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	3.519	21	Pass
NVNT	1-DH1	2441	Ant1	3.714	21	Pass
NVNT	1-DH1	2480	Ant1	3.564	21	Pass
NVNT	2-DH1	2402	Ant1	4.062	21	Pass
NVNT	2-DH1	2441	Ant1	4.169	21	Pass
NVNT	2-DH1	2480	Ant1	3.975	21	Pass
NVNT	3-DH1	2402	Ant1	4.482	21	Pass
NVNT	3-DH1	2441	Ant1	4.357	21	Pass
NVNT	3-DH1	2480	Ant1	4.265	21	Pass

Test Graphs

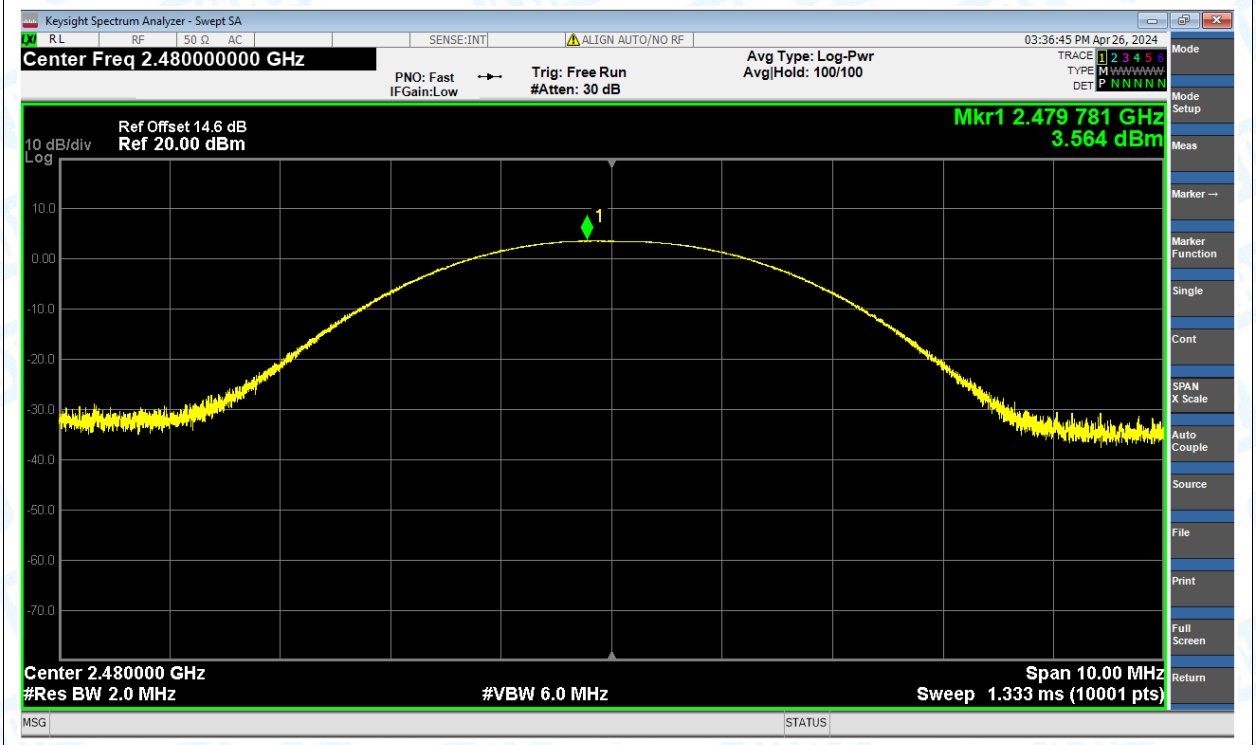
Power NVNT 1-DH1 2402MHz Ant1



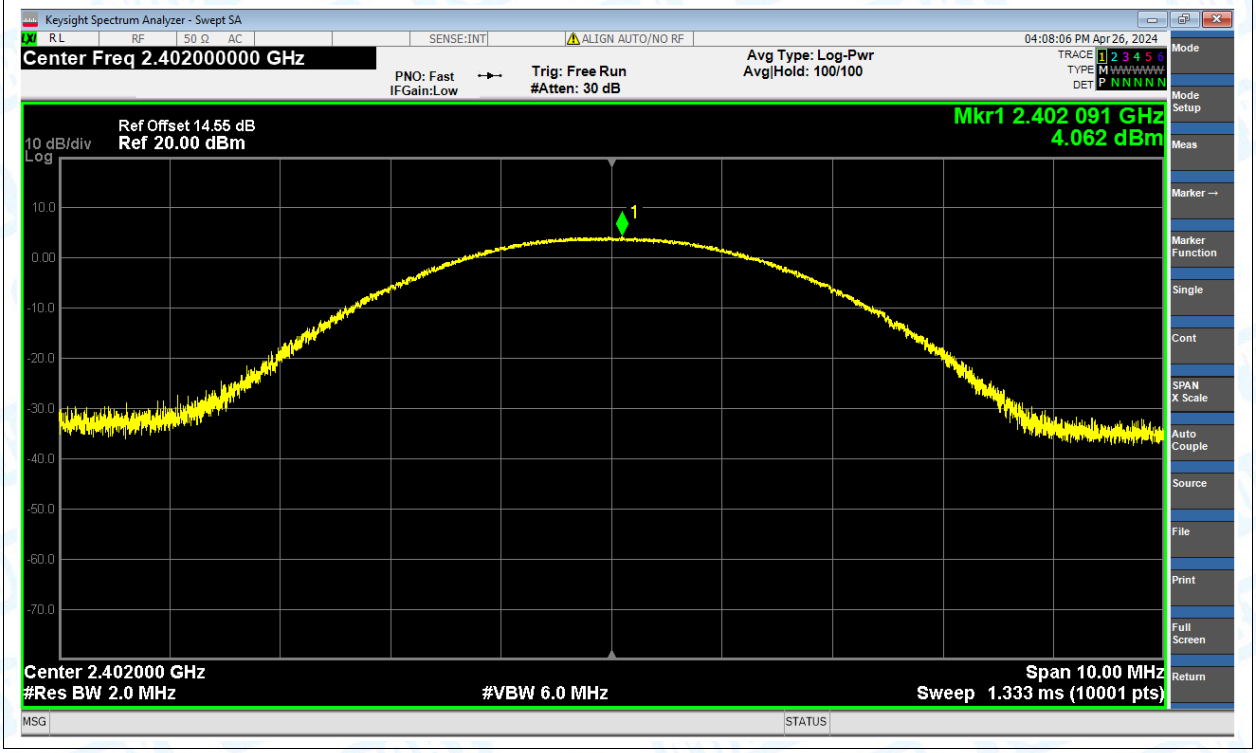
Power NVNT 1-DH1 2441MHz Ant1



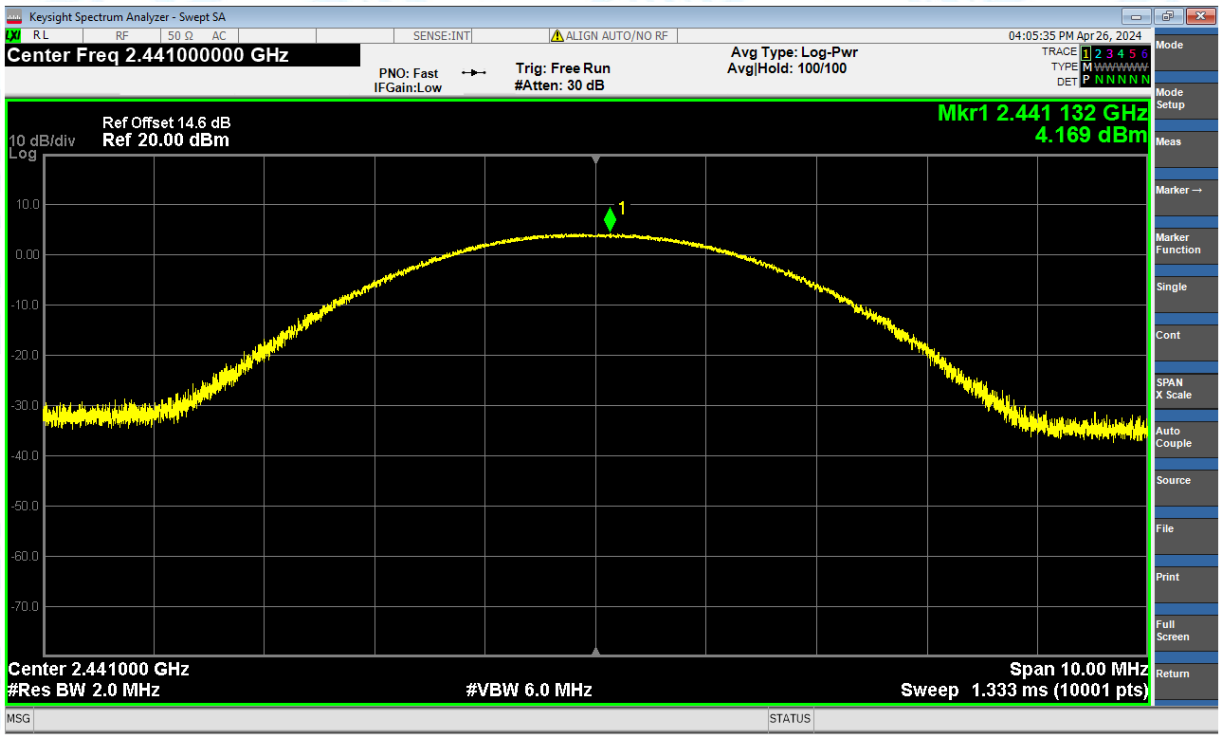
Power NVNT 1-DH1 2480MHz Ant1



Power NVNT 2-DH1 2402MHz Ant1

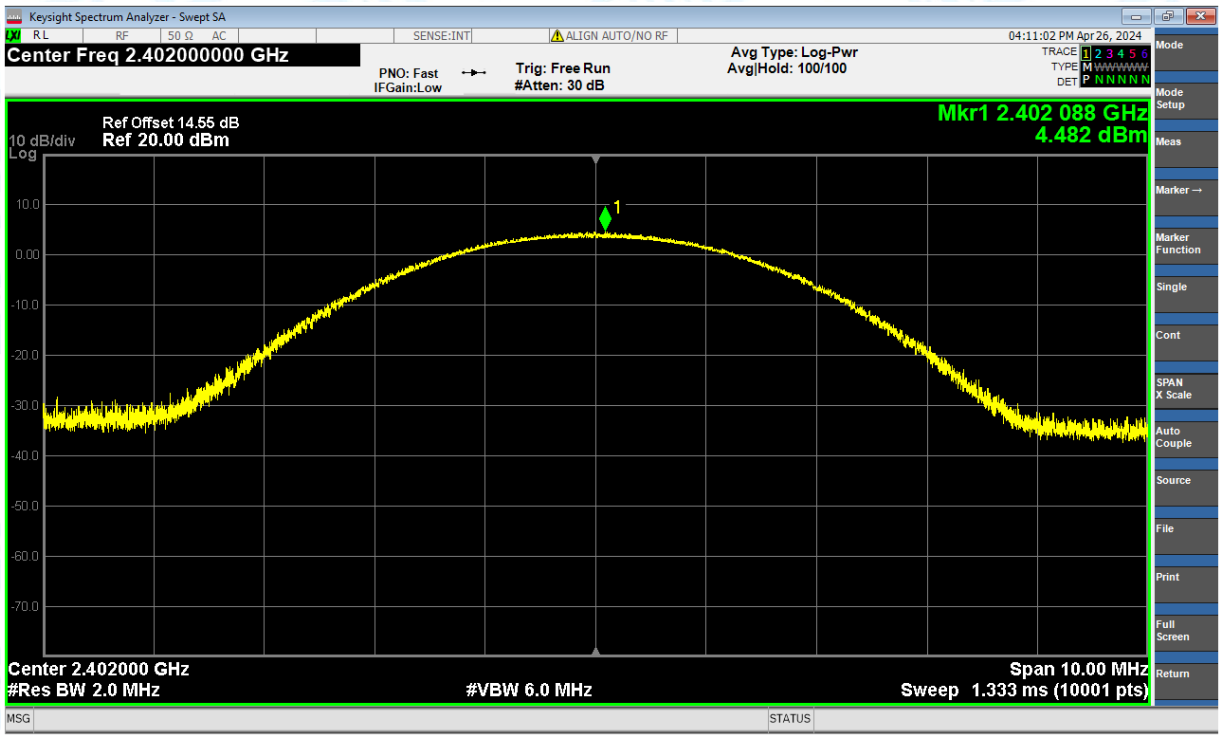


Power NVNT 2-DH1 2441MHz Ant1

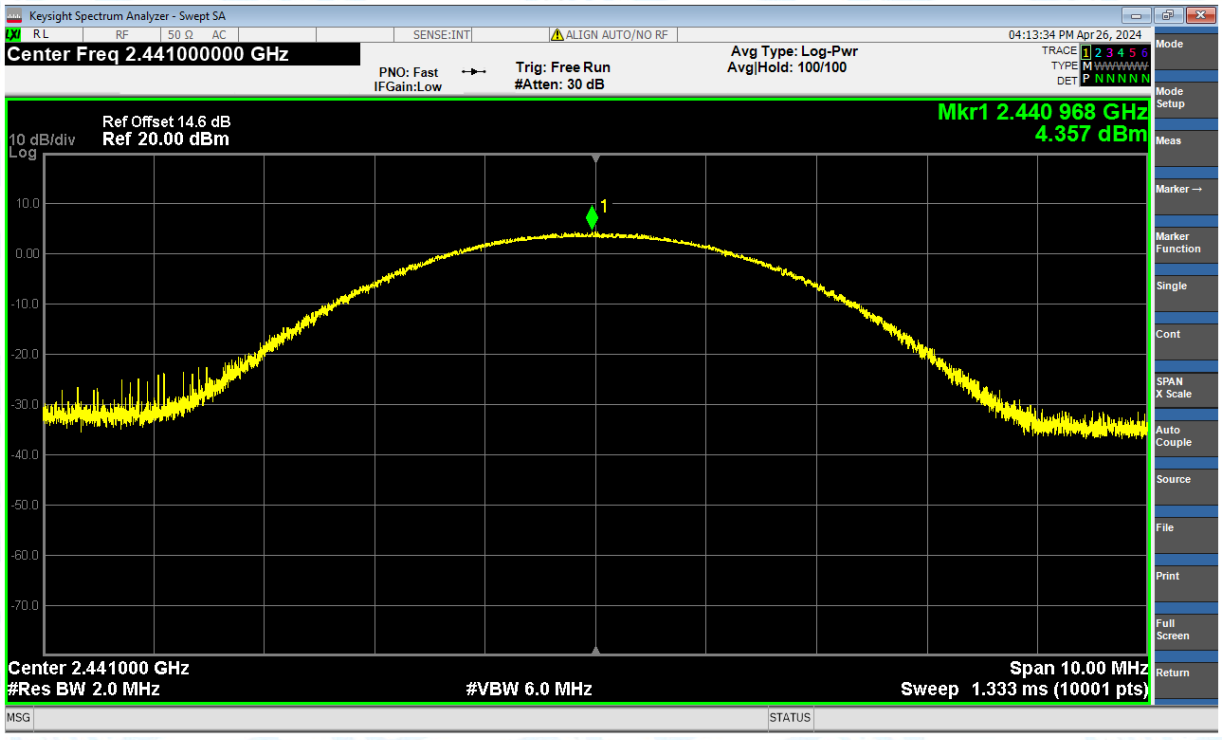


Power NVNT 2-DH1 2480MHz Ant1

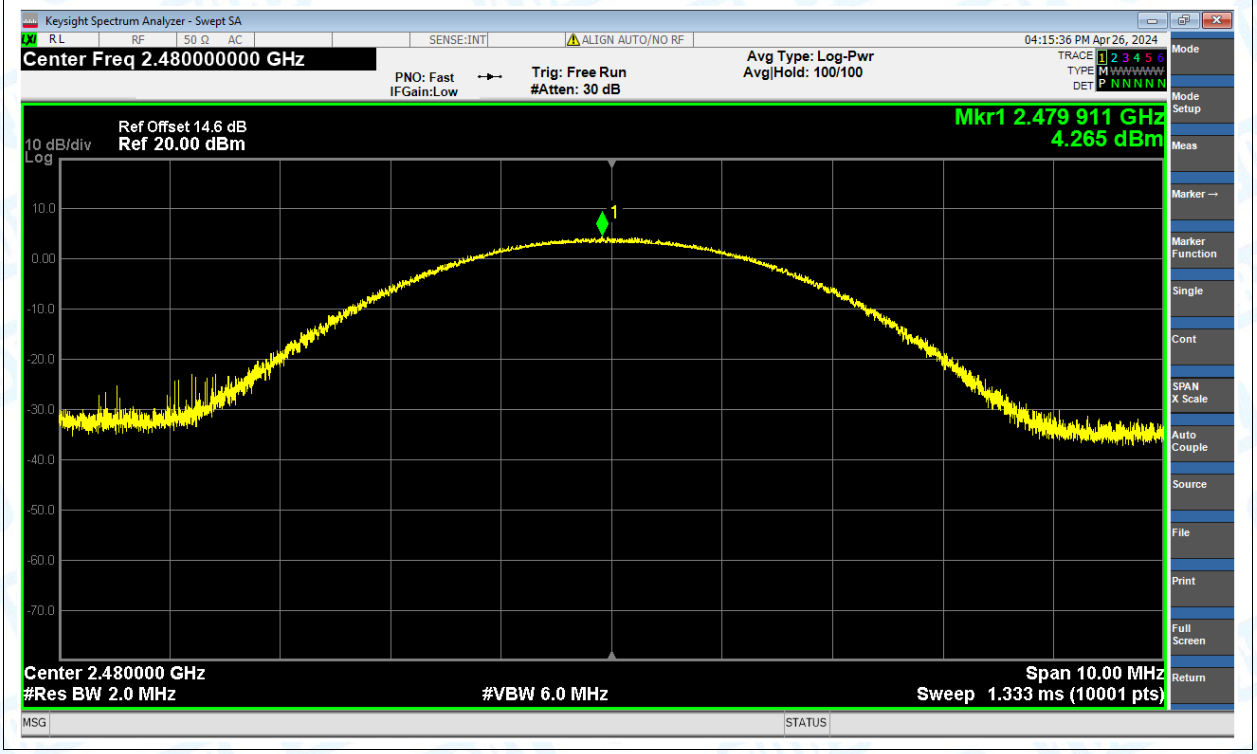
Power NVNT 3-DH1 2402MHz Ant1



Power NVNT 3-DH1 2441MHz Ant1



Power NVNT 3-DH1 2480MHz Ant1



3. -20dB Bandwidth

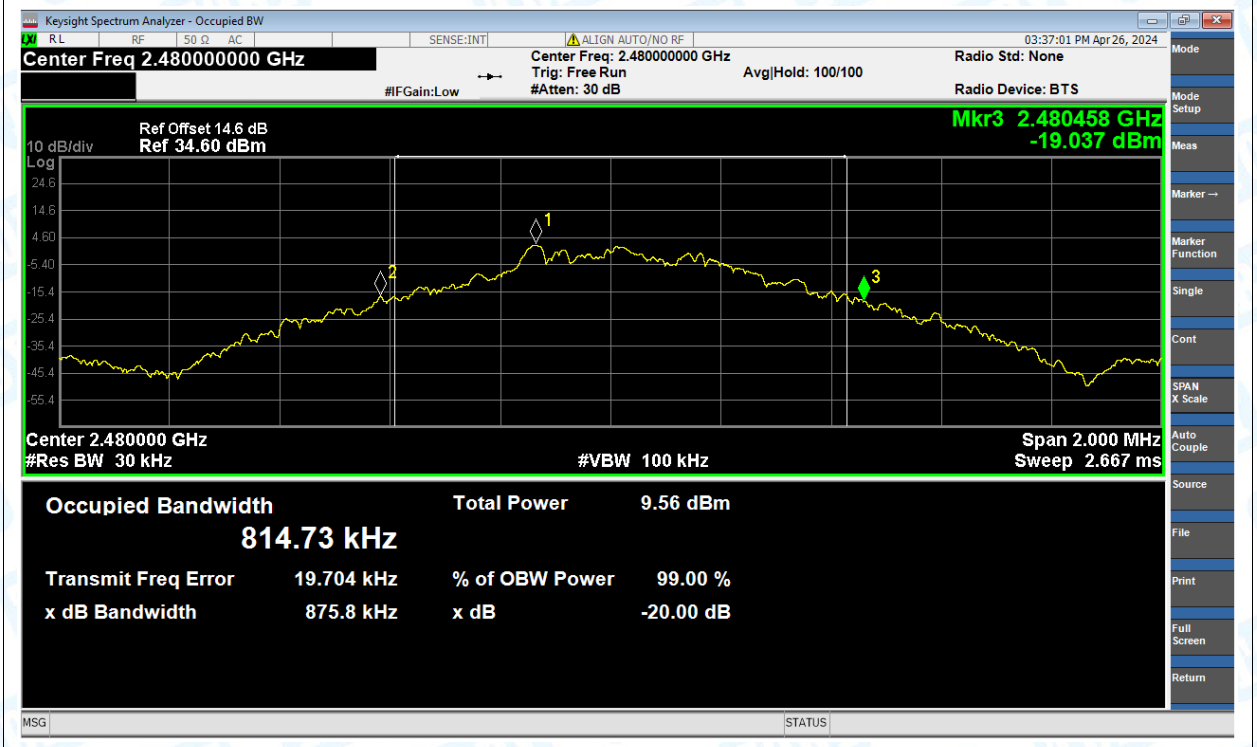
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.87	0	Pass
NVNT	1-DH1	2441	Ant1	0.88	0	Pass
NVNT	1-DH1	2480	Ant1	0.88	0	Pass
NVNT	2-DH1	2402	Ant1	1.23	0	Pass
NVNT	2-DH1	2441	Ant1	1.23	0	Pass
NVNT	2-DH1	2480	Ant1	1.23	0	Pass
NVNT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

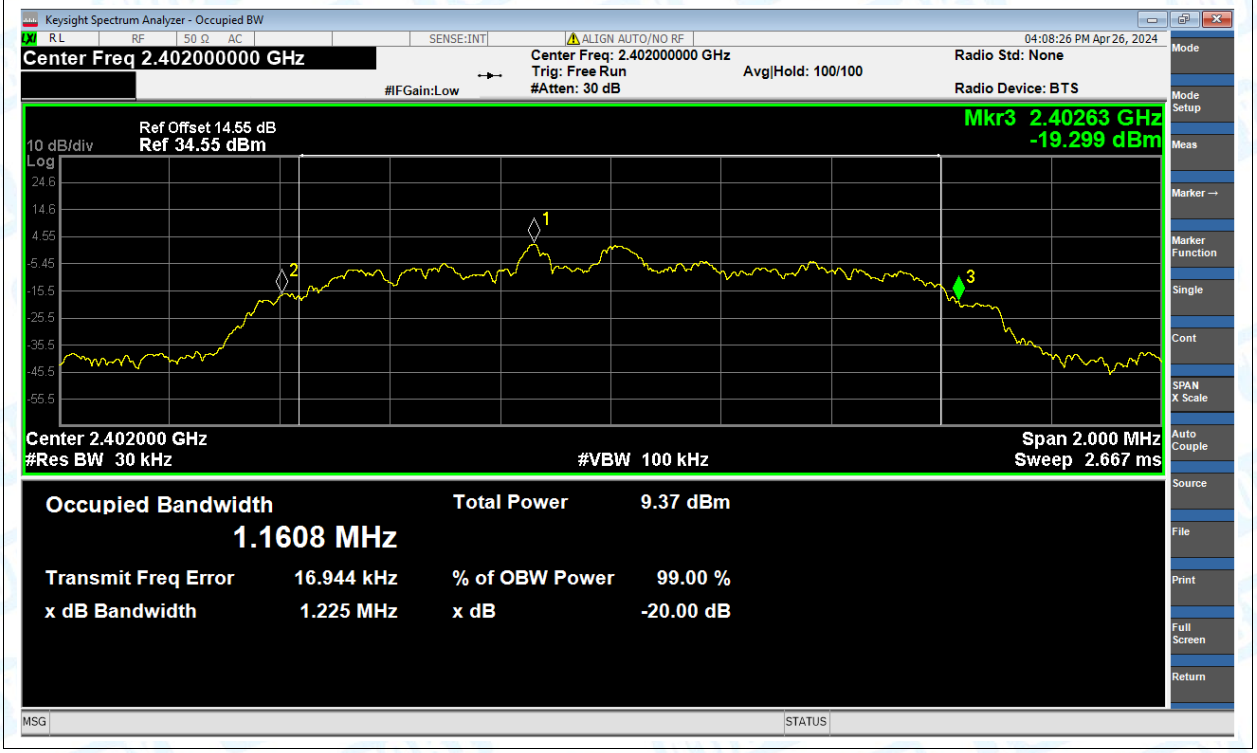
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1

-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1

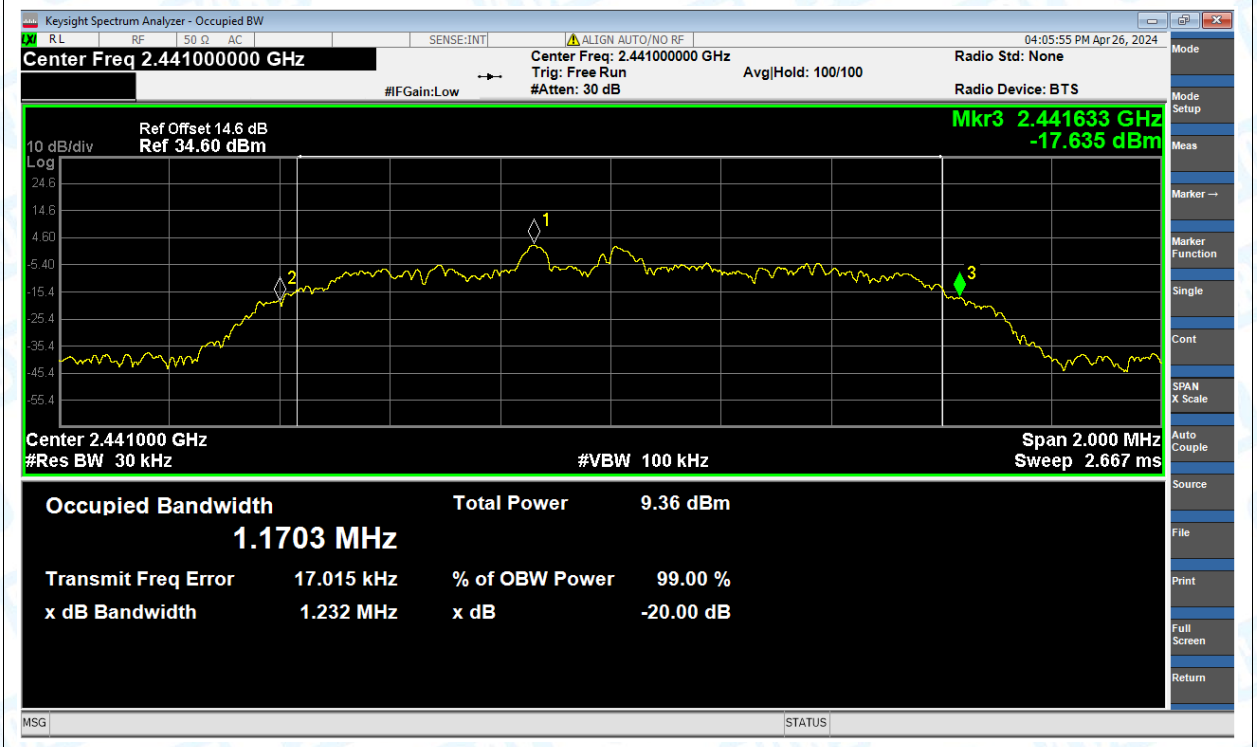
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



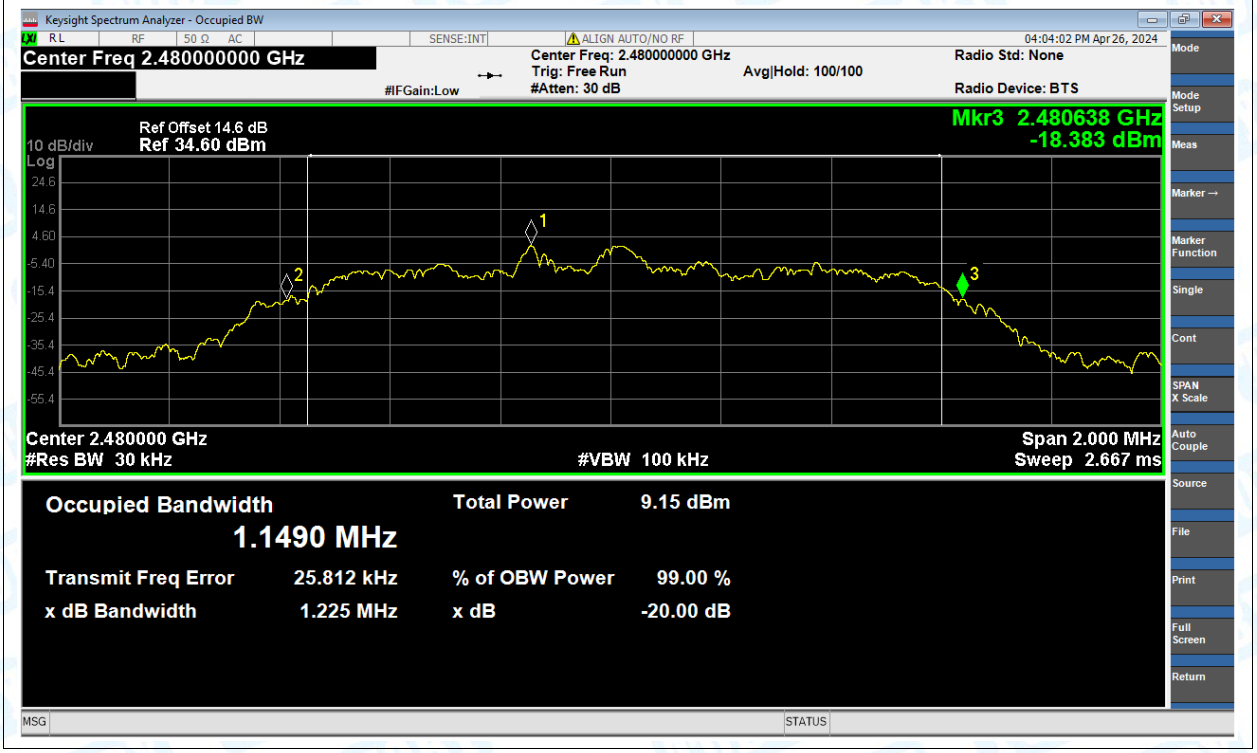
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



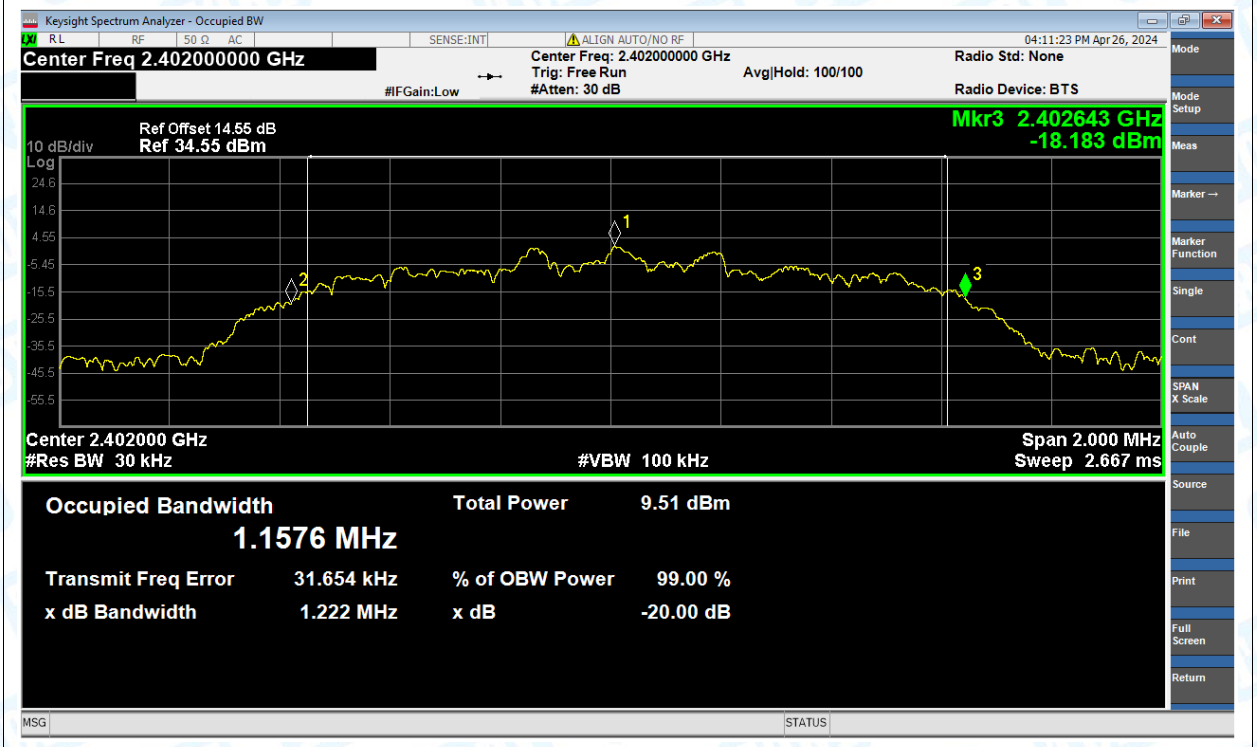
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



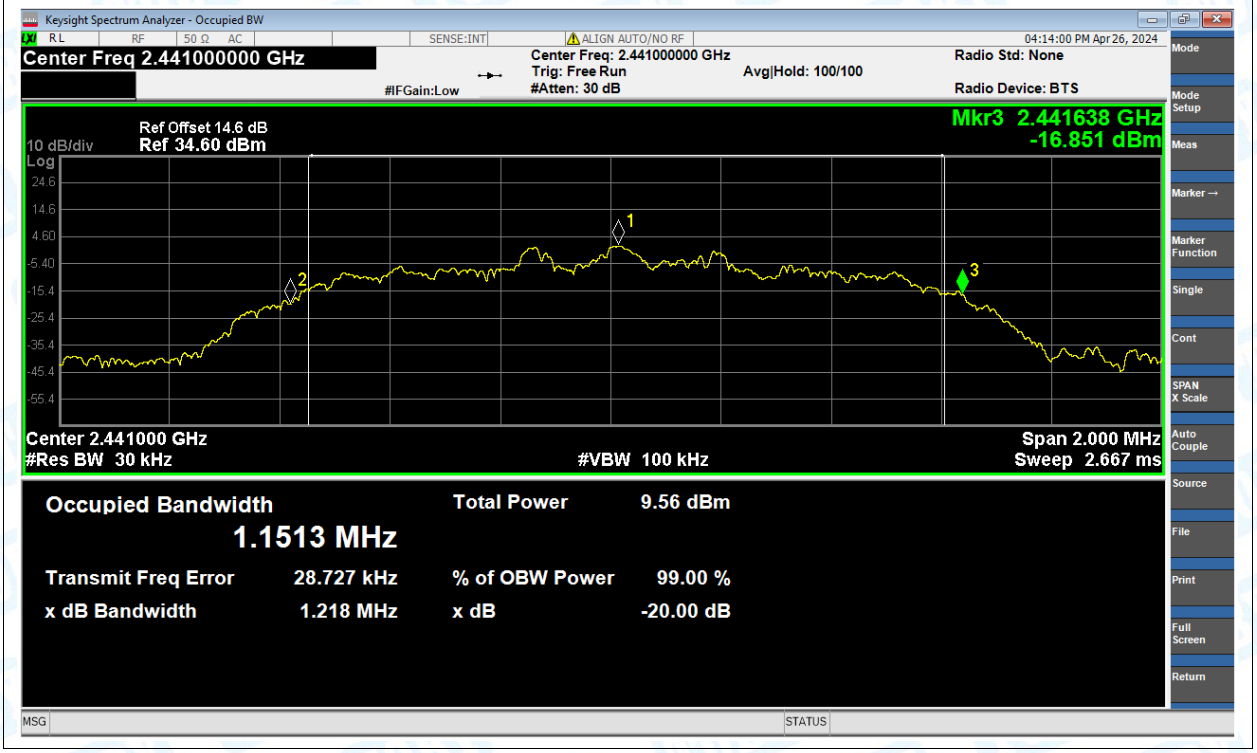
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1



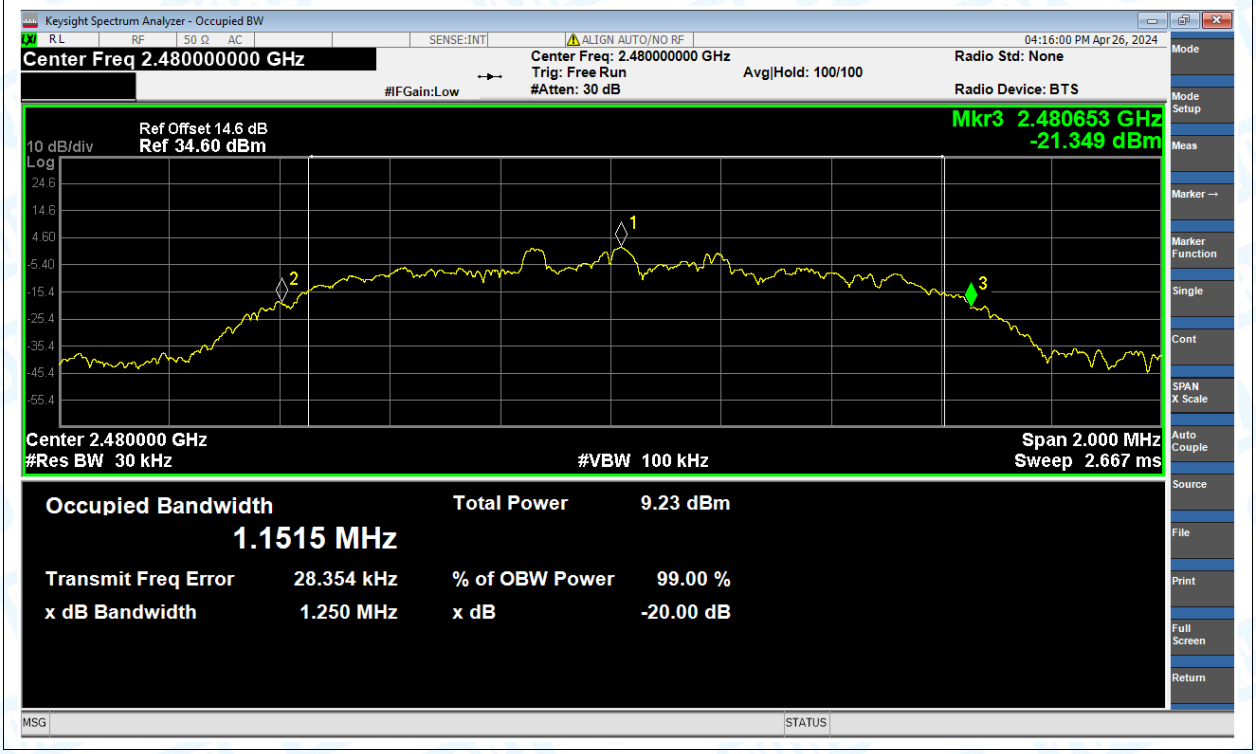
-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2480MHz Ant1

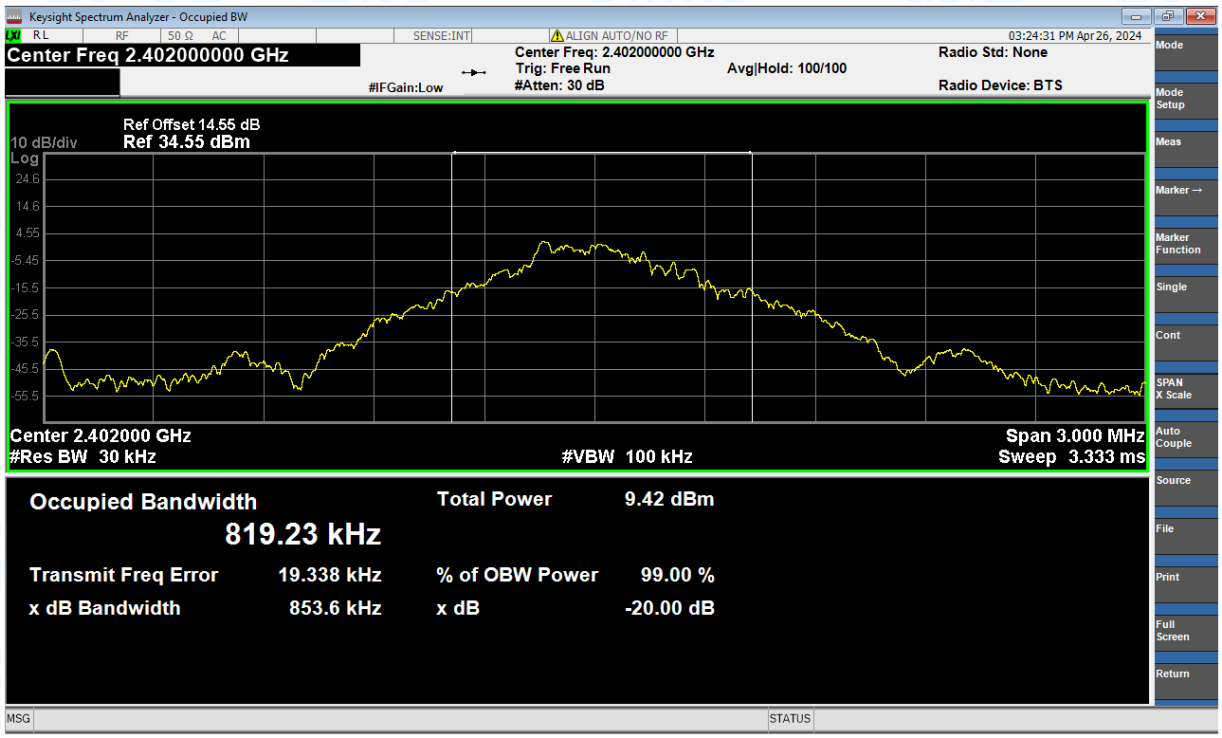


4. Occupied Channel Bandwidth

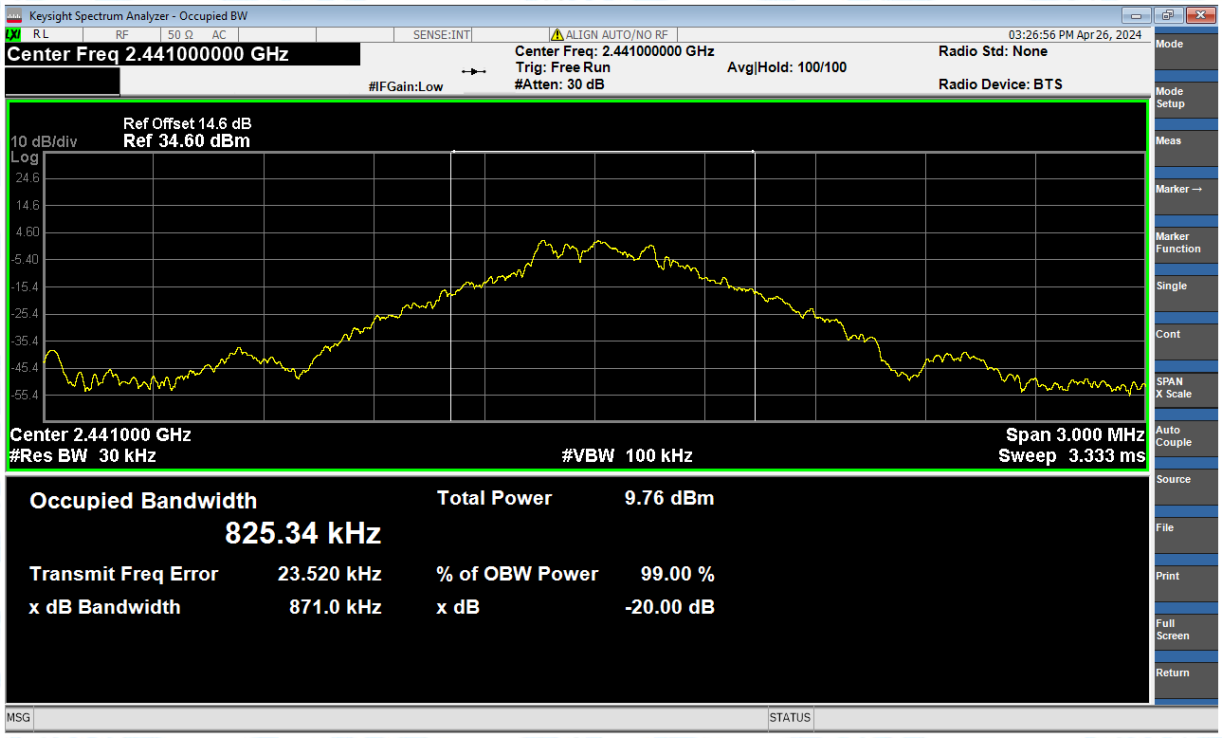
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.819
NVNT	1-DH1	2441	Ant1	0.825
NVNT	1-DH1	2480	Ant1	0.839
NVNT	2-DH1	2402	Ant1	1.172
NVNT	2-DH1	2441	Ant1	1.177
NVNT	2-DH1	2480	Ant1	1.173
NVNT	3-DH1	2402	Ant1	1.158
NVNT	3-DH1	2441	Ant1	1.166
NVNT	3-DH1	2480	Ant1	1.157

Test Graphs

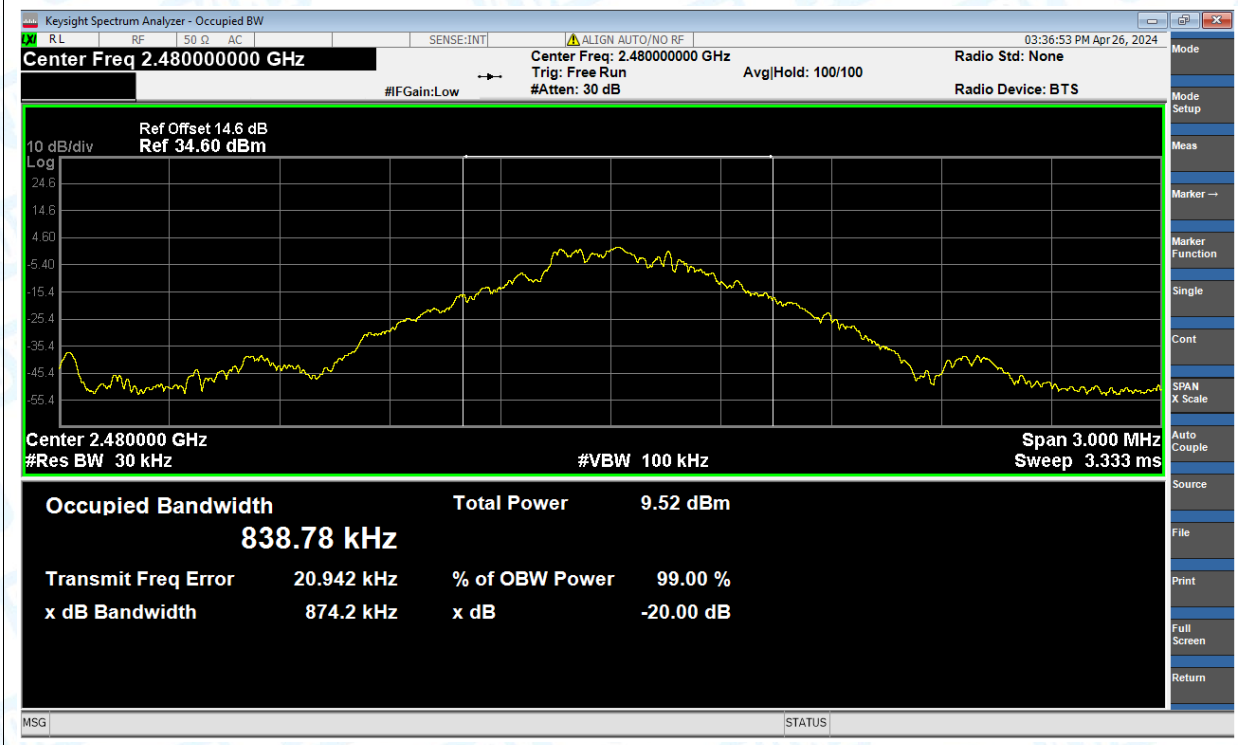
OBW NVNT 1-DH1 2402MHz Ant1



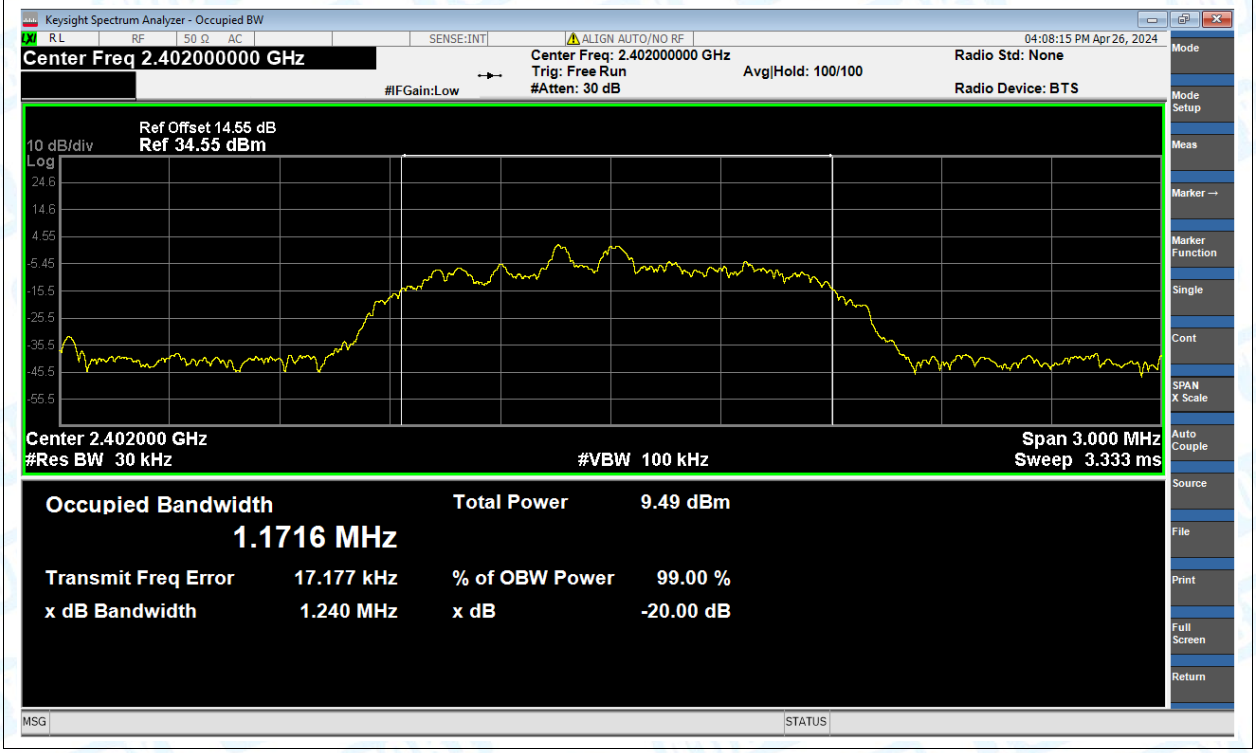
OBW NVNT 1-DH1 2441MHz Ant1



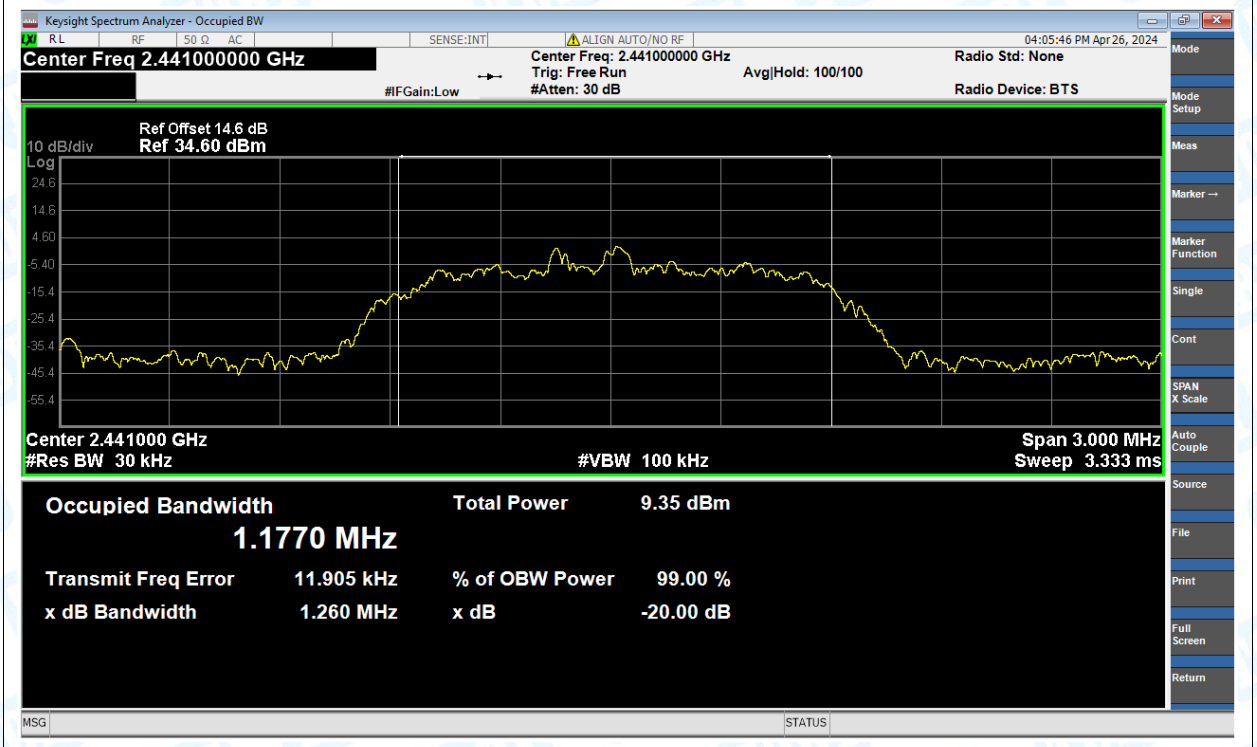
OBW NVNT 1-DH1 2480MHz Ant1



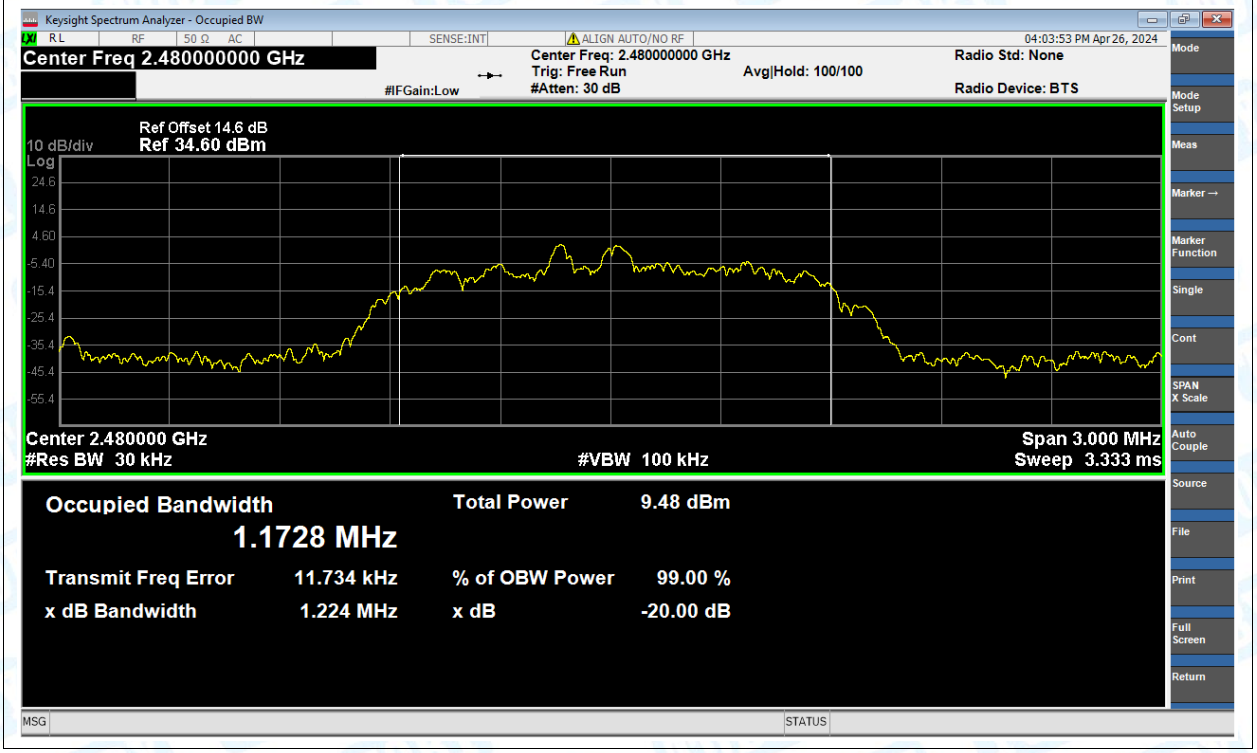
OBW NVNT 2-DH1 2402MHz Ant1



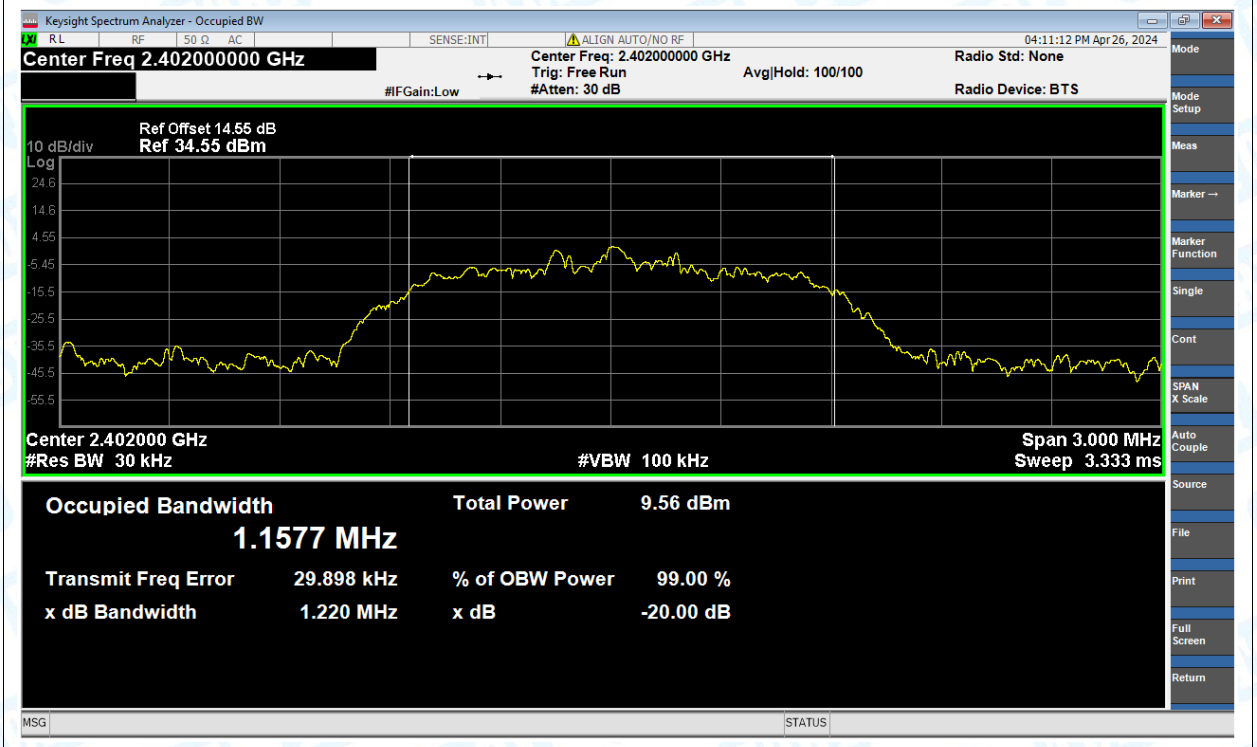
OBW NVNT 2-DH1 2441MHz Ant1



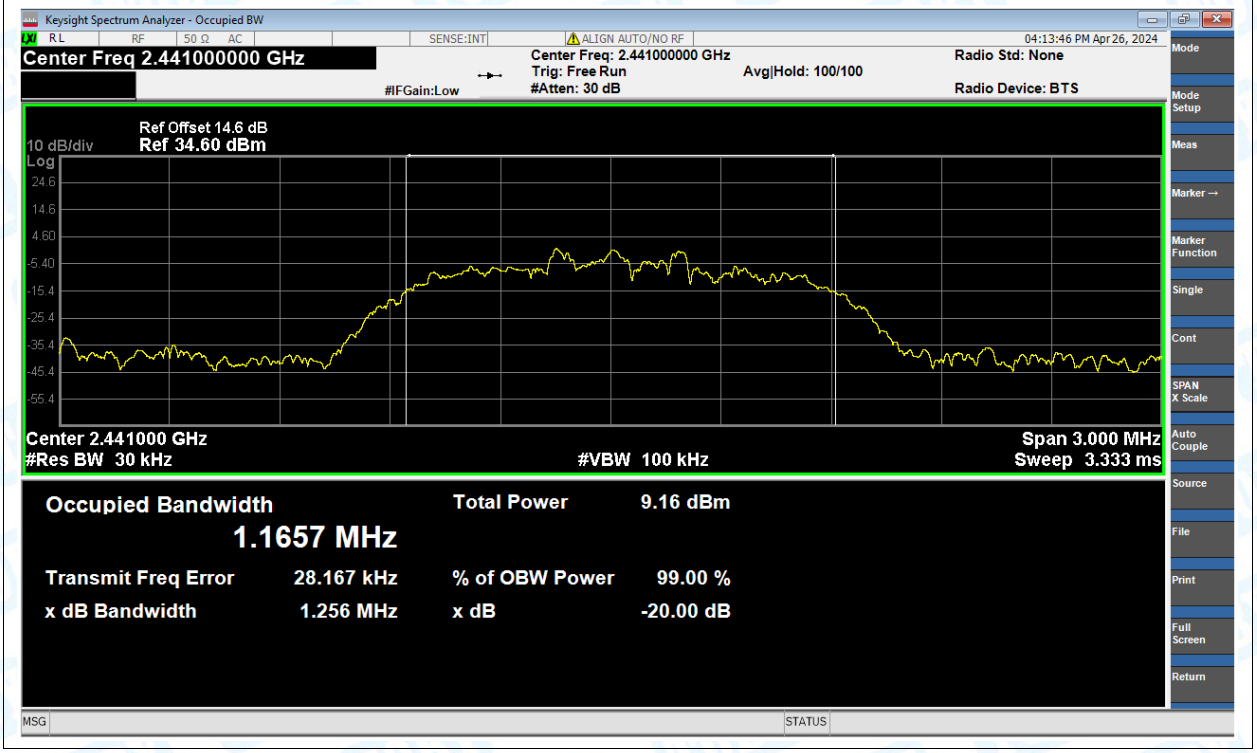
OBW NVNT 2-DH1 2480MHz Ant1



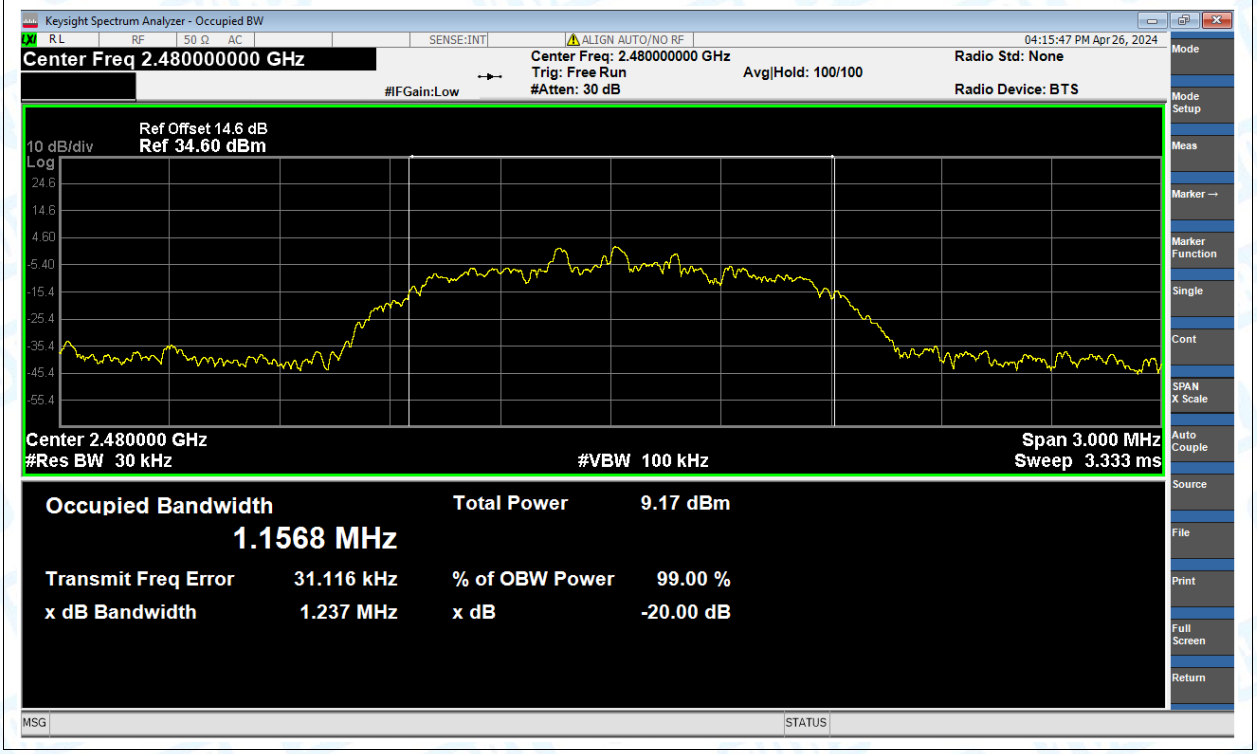
OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1



OBW NVNT 3-DH1 2480MHz Ant1



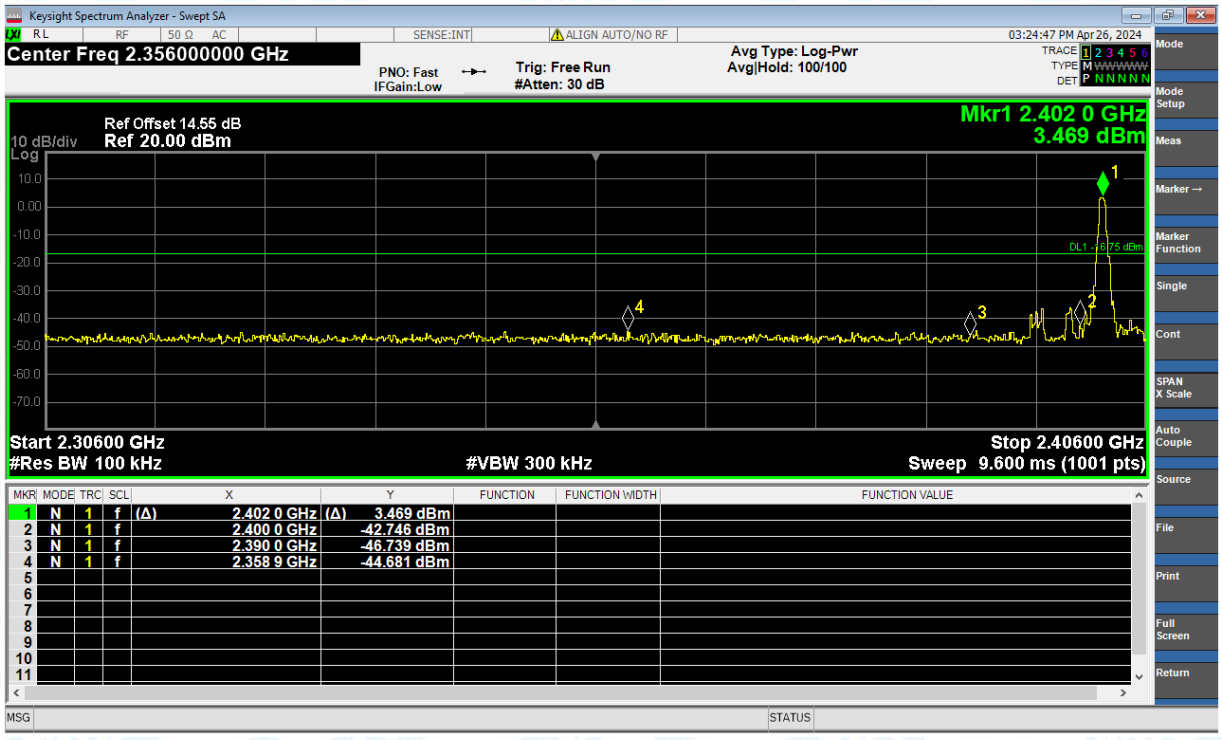
5. Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-47.93	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-46.48	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-48.43	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-48.16	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-47.55	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-46.43	-20	Pass

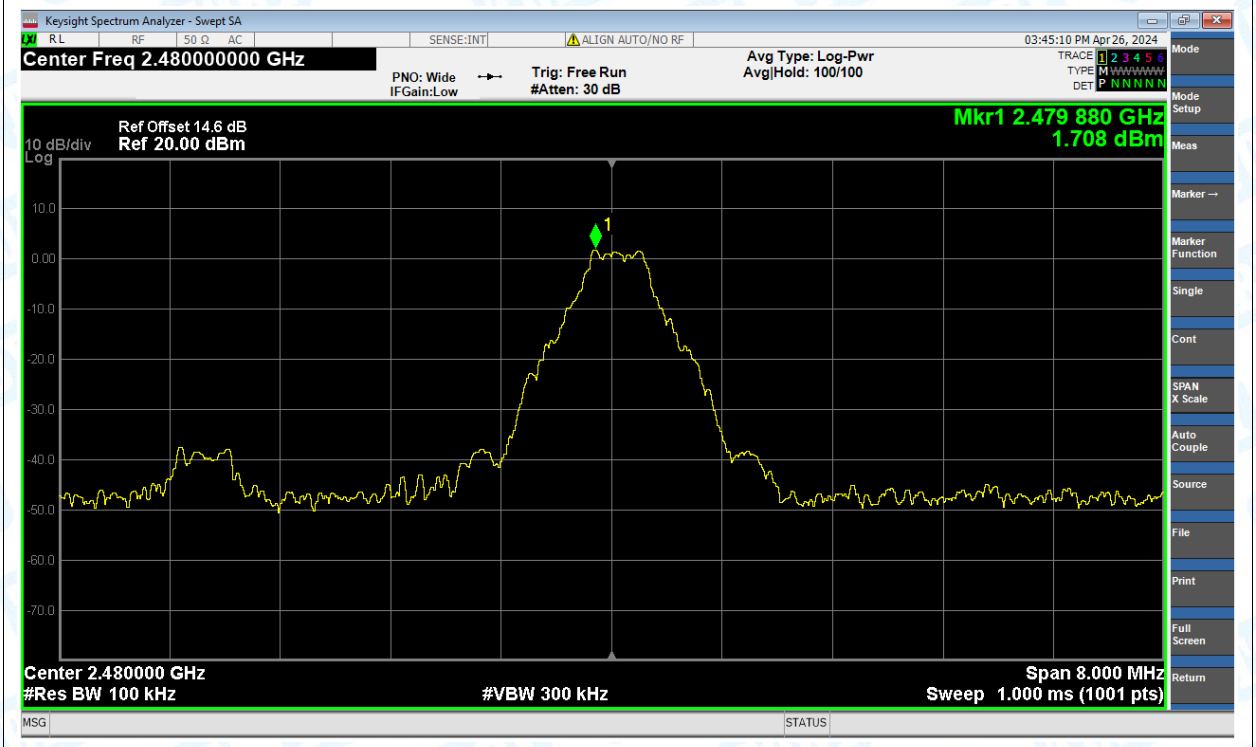
Test Graphs

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

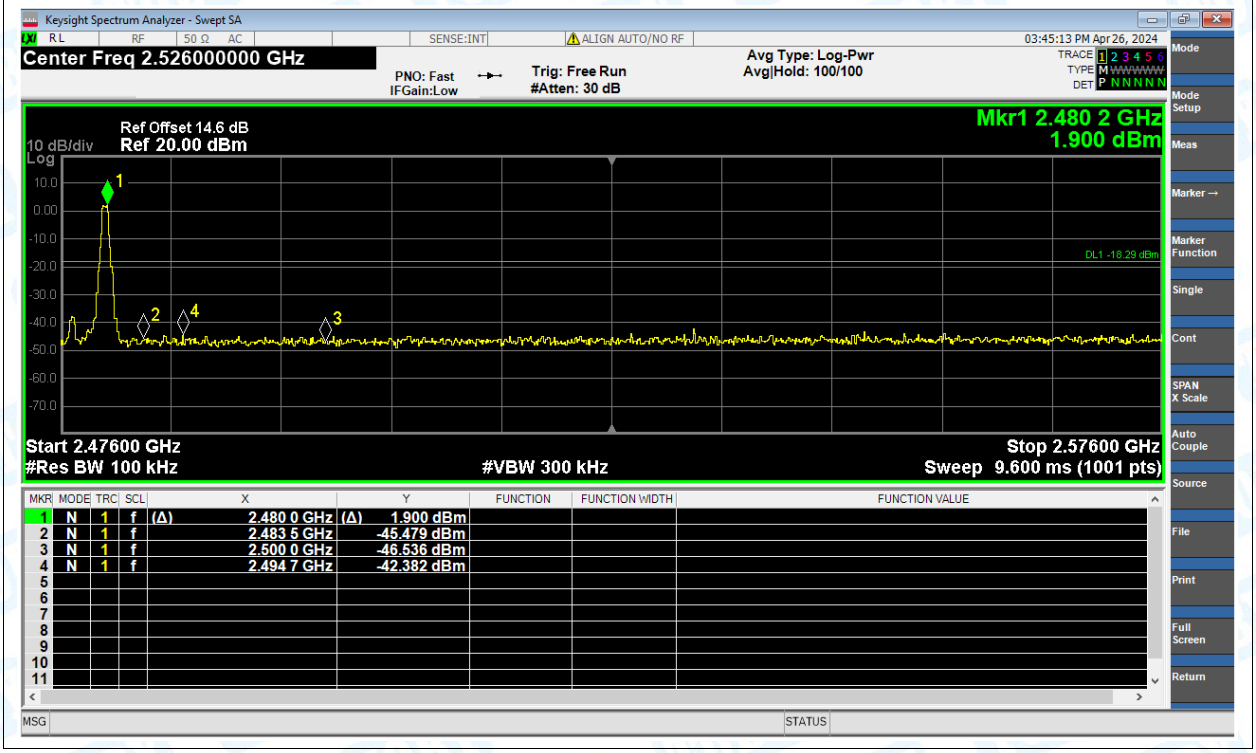
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



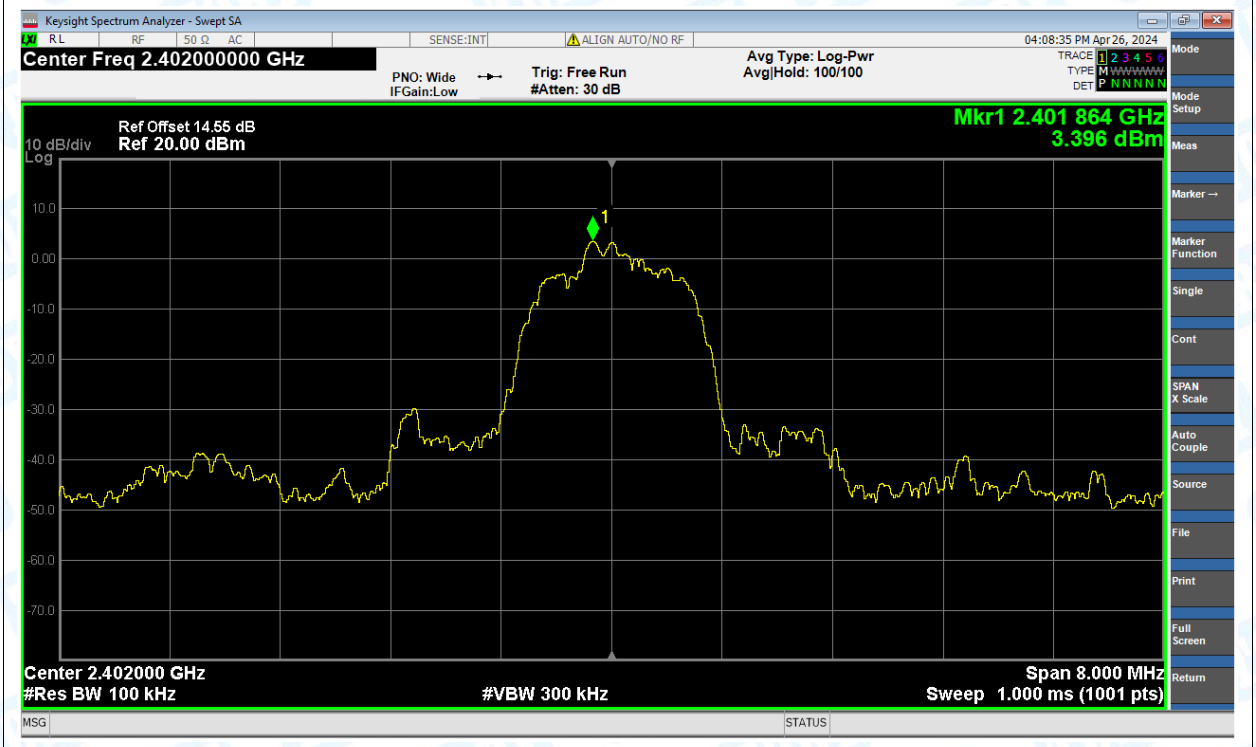
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



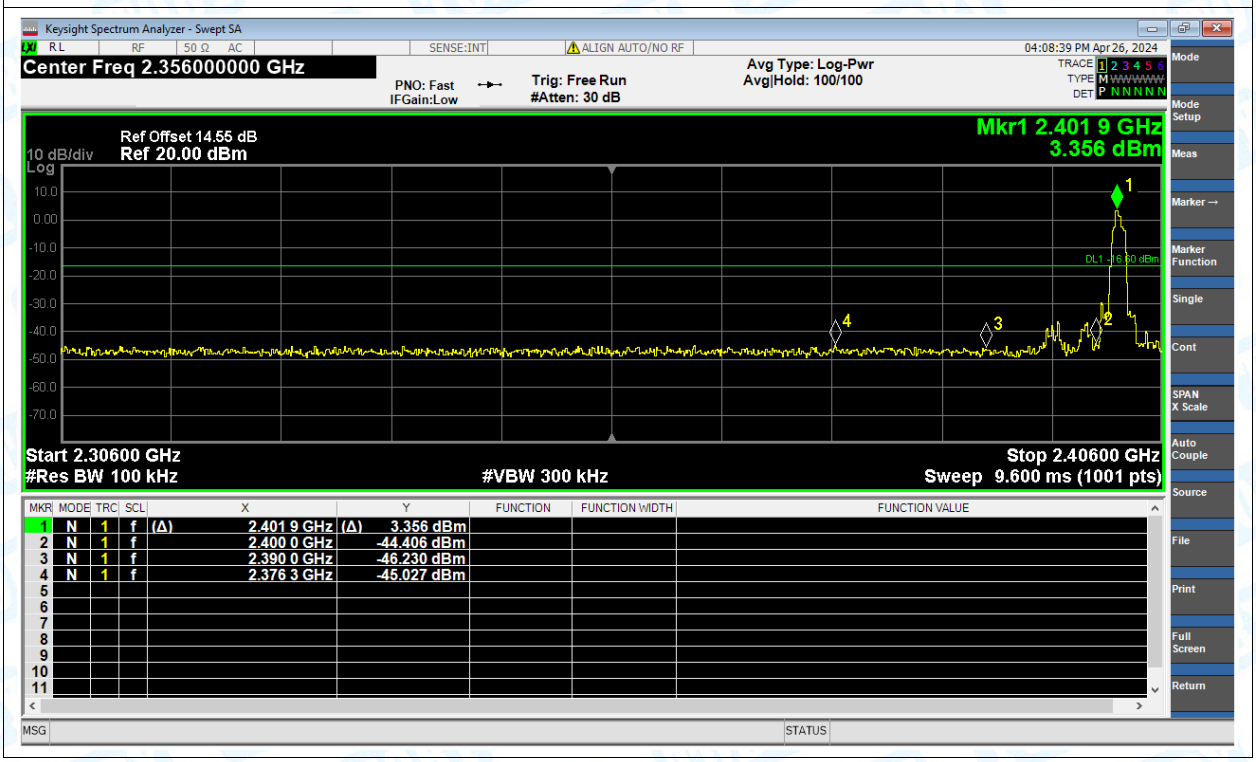
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



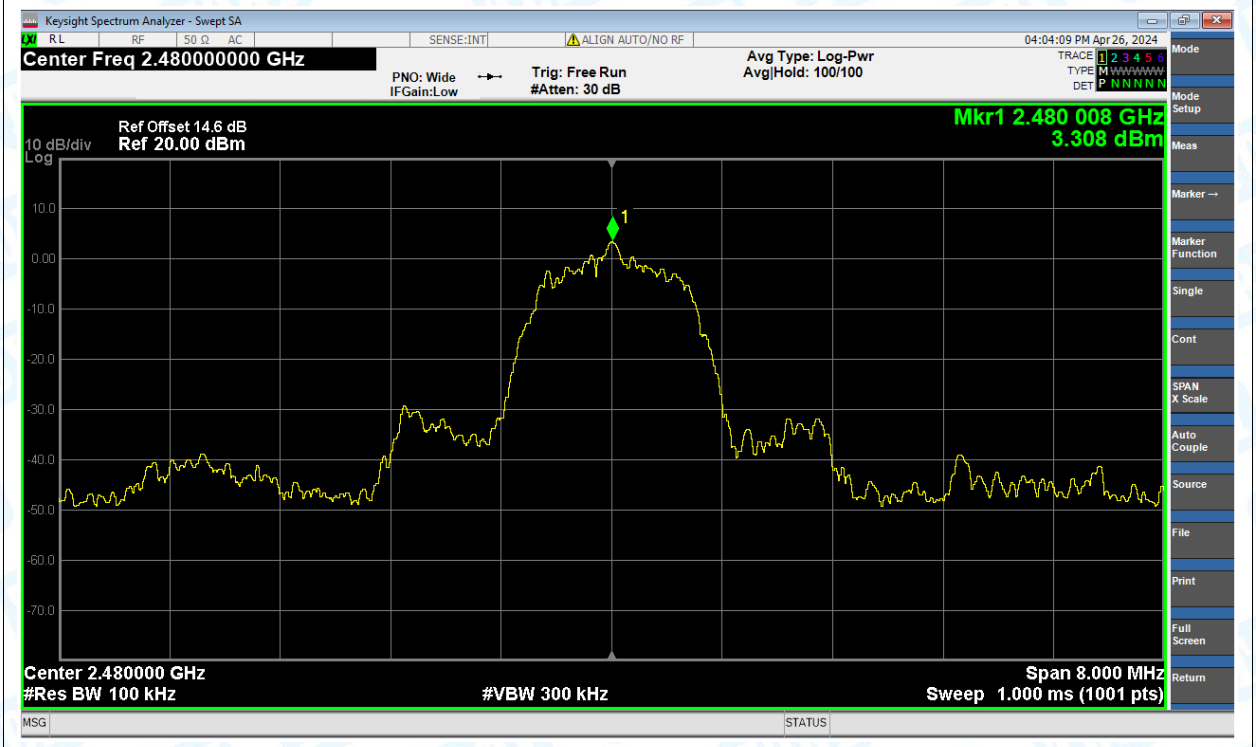
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



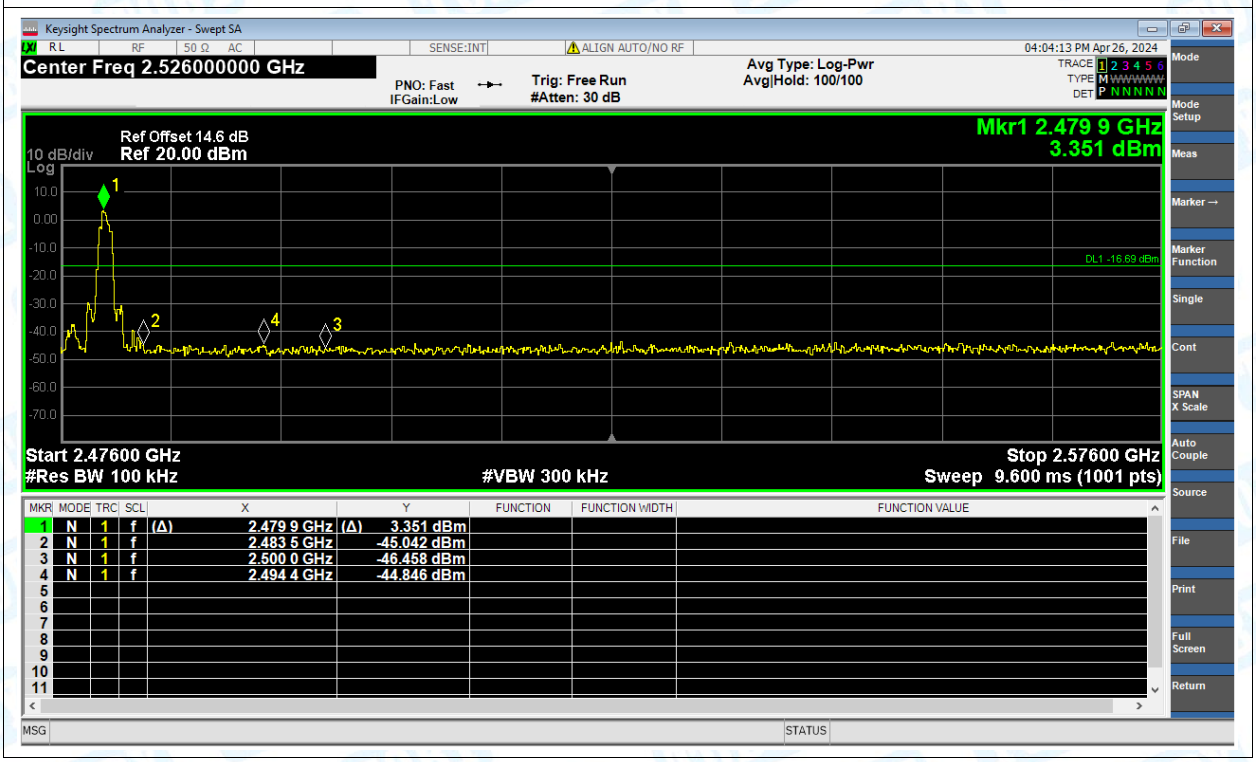
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



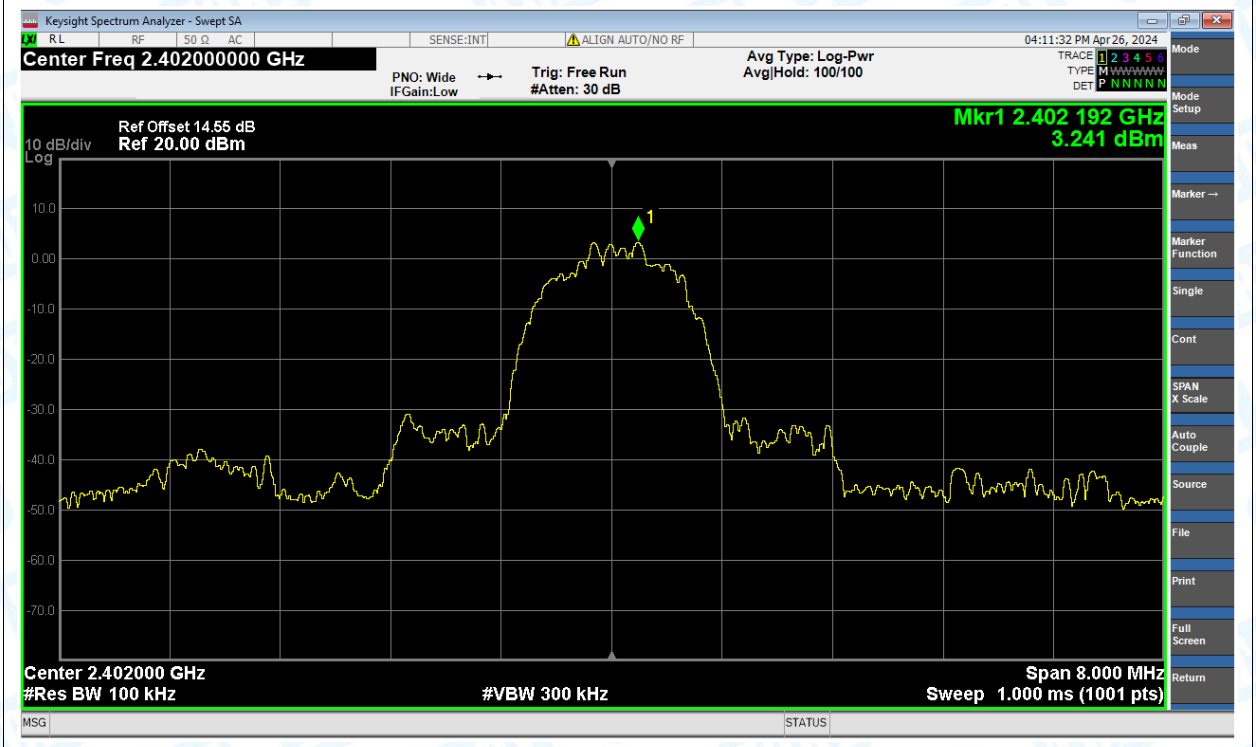
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Ref



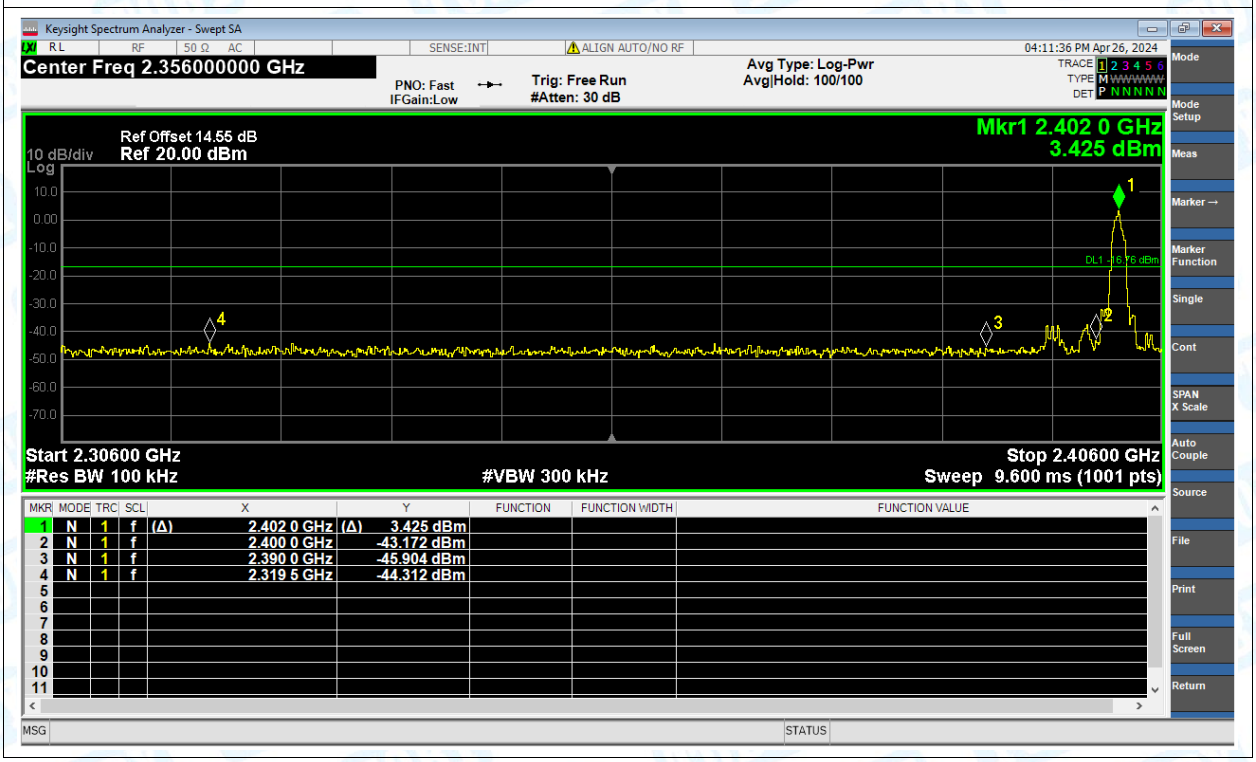
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission



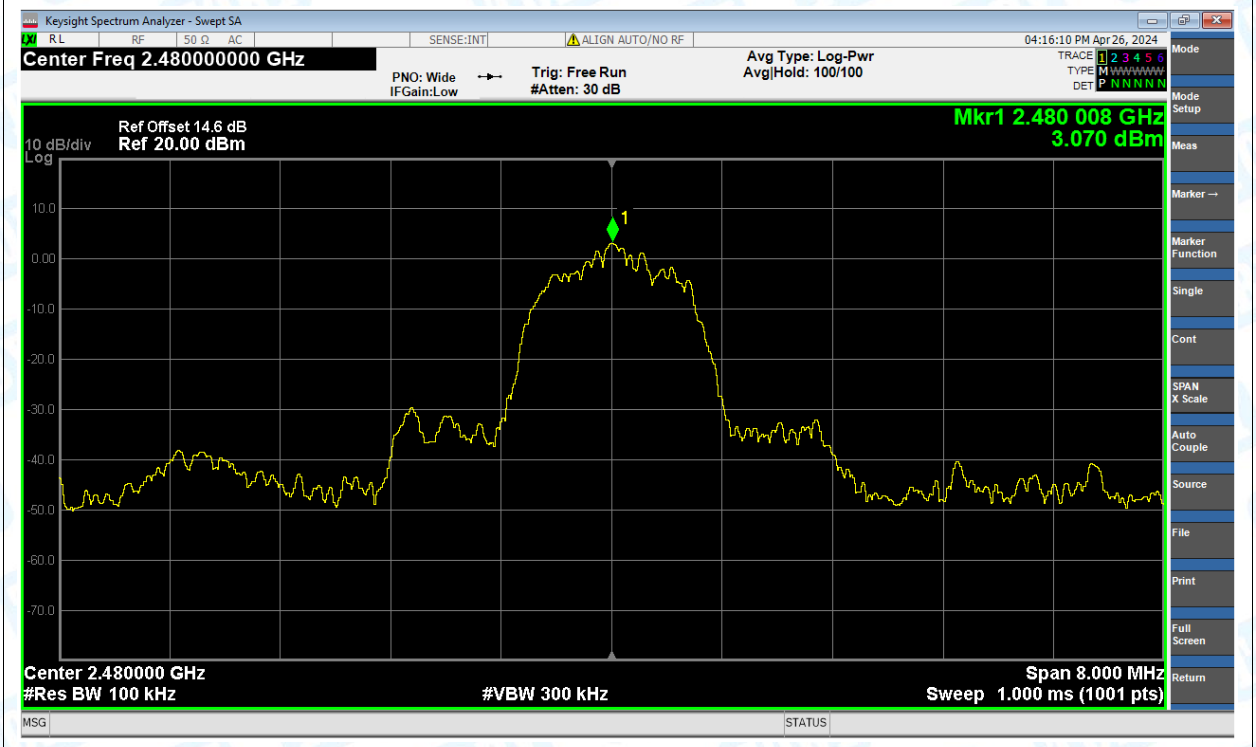
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Ref



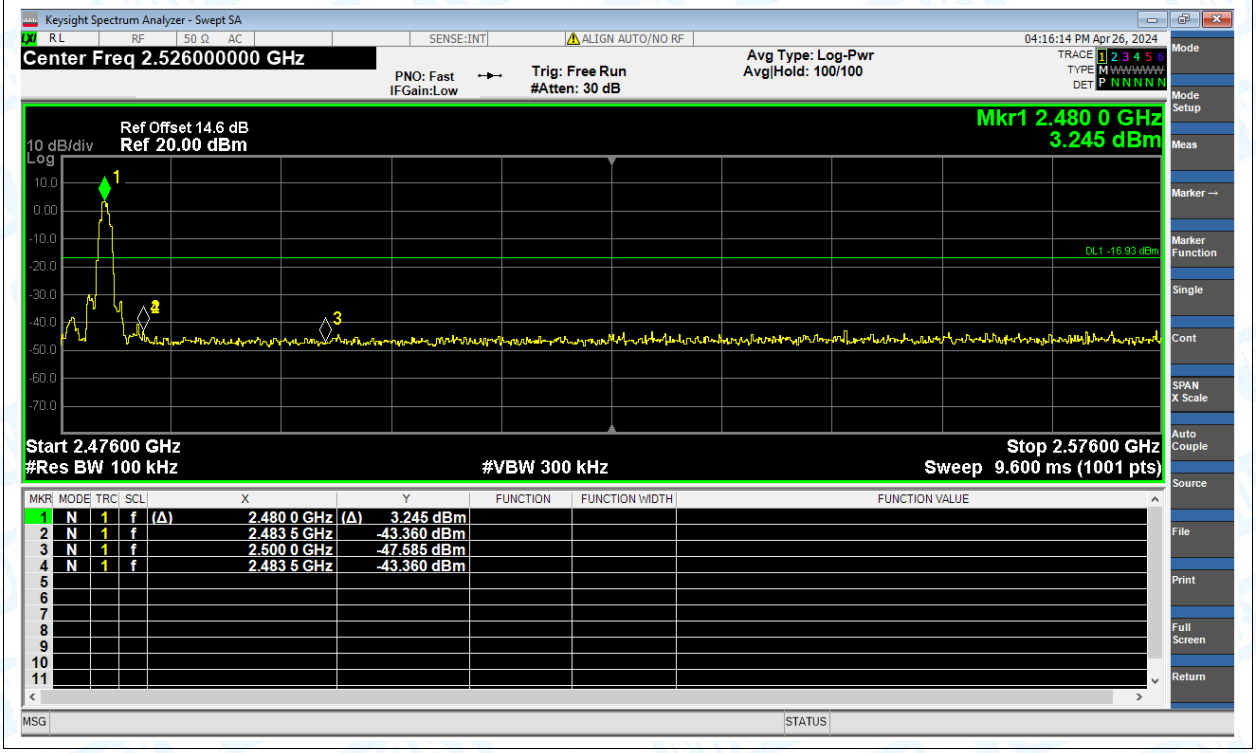
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission



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



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

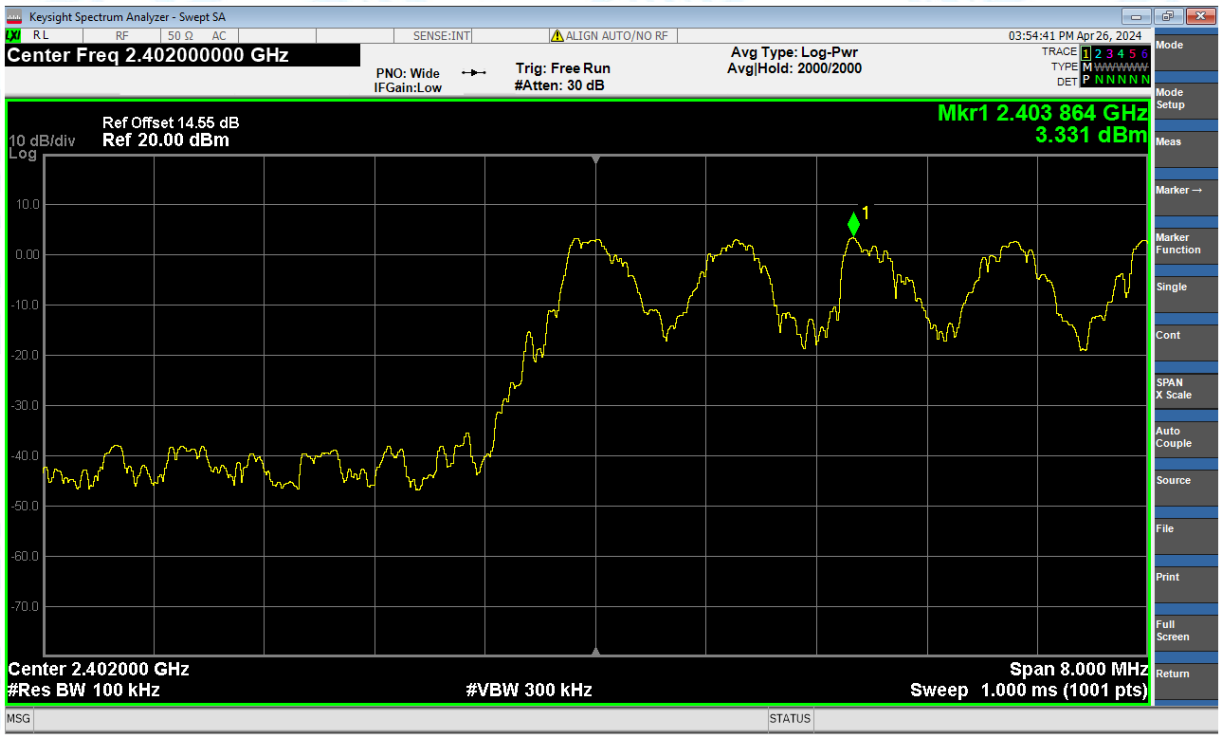


6. Band Edge(Hopping)

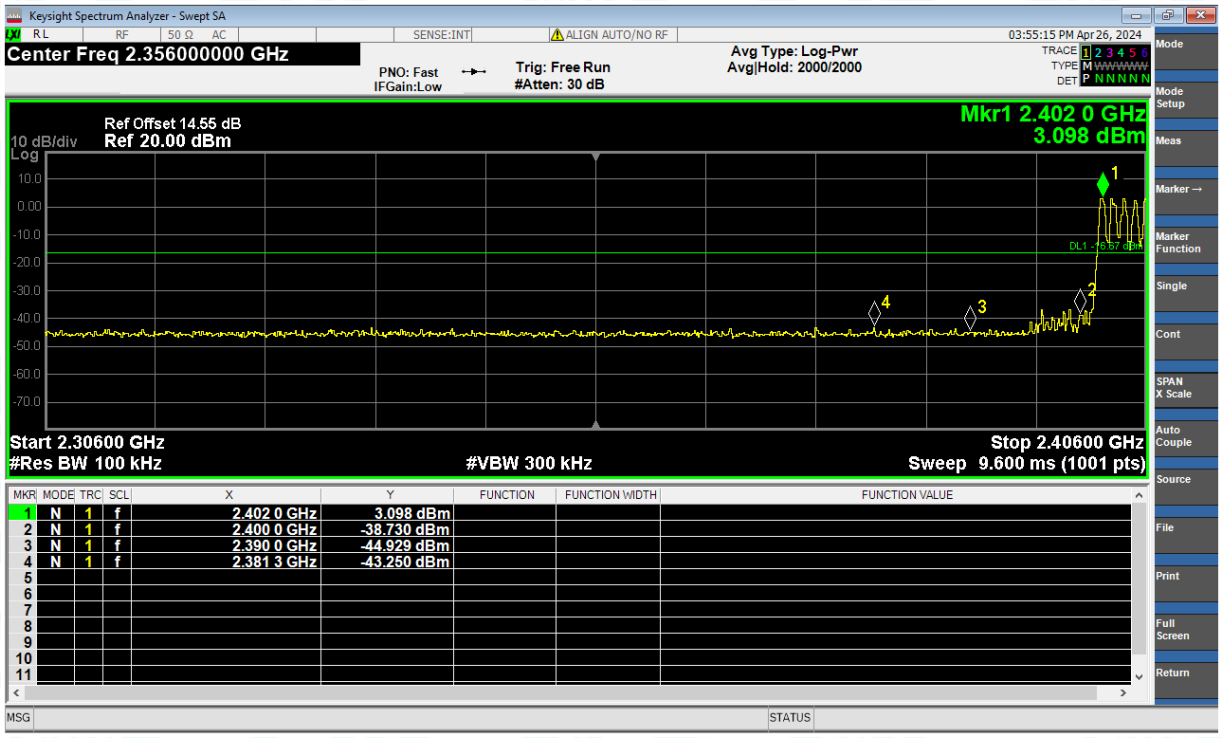
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-46.58	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-46.37	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-46.22	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-46.93	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-46.4	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-44.96	-20	Pass

Test Graphs

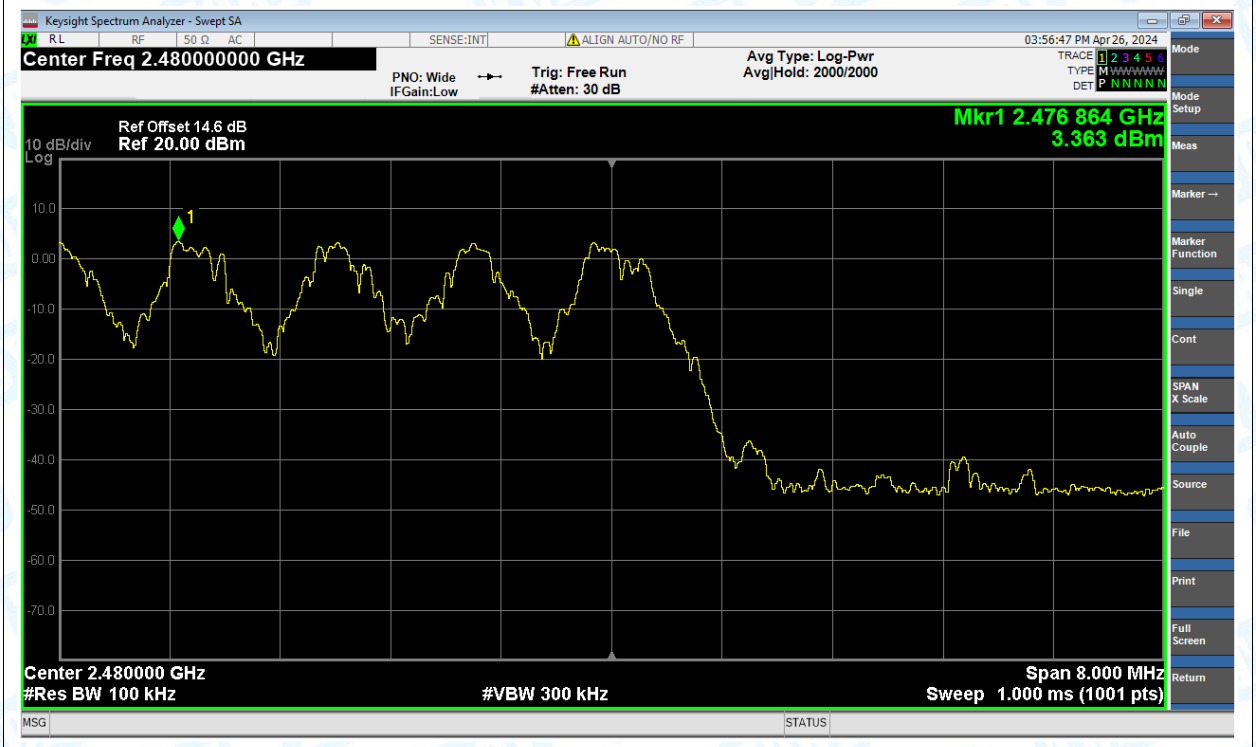
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Ref



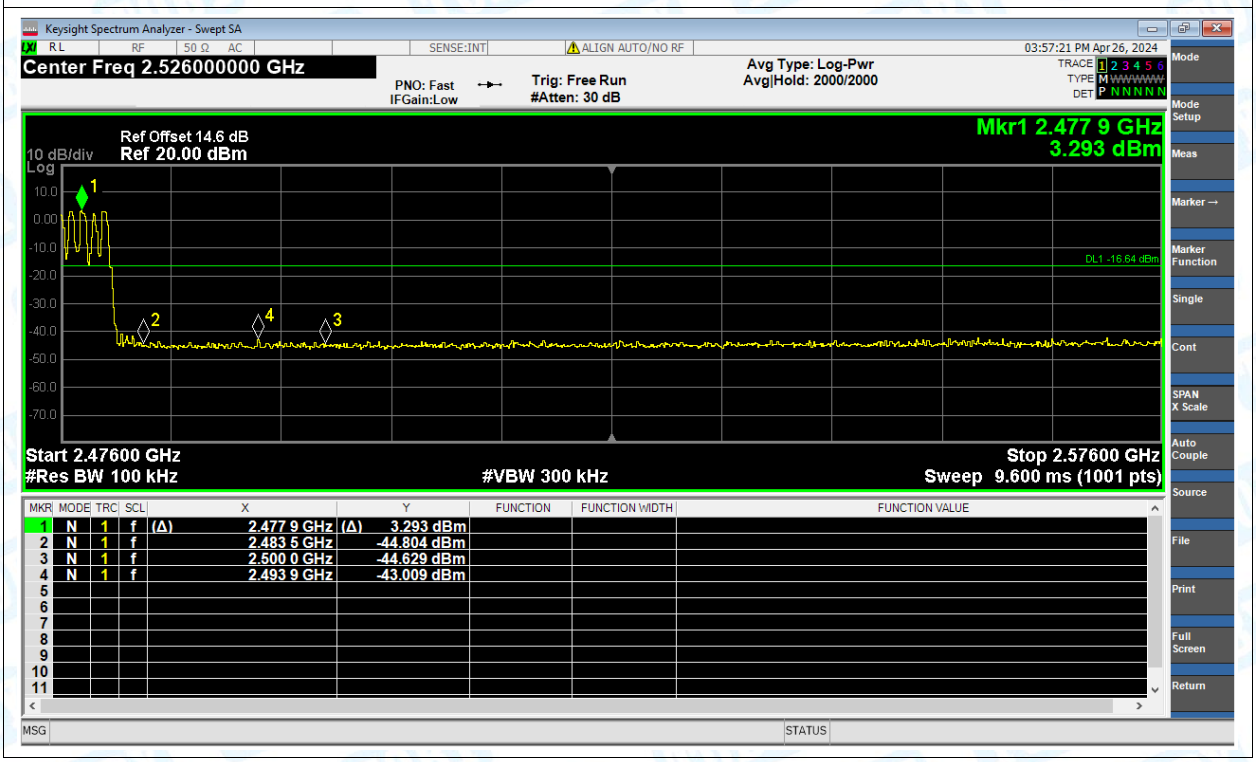
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission



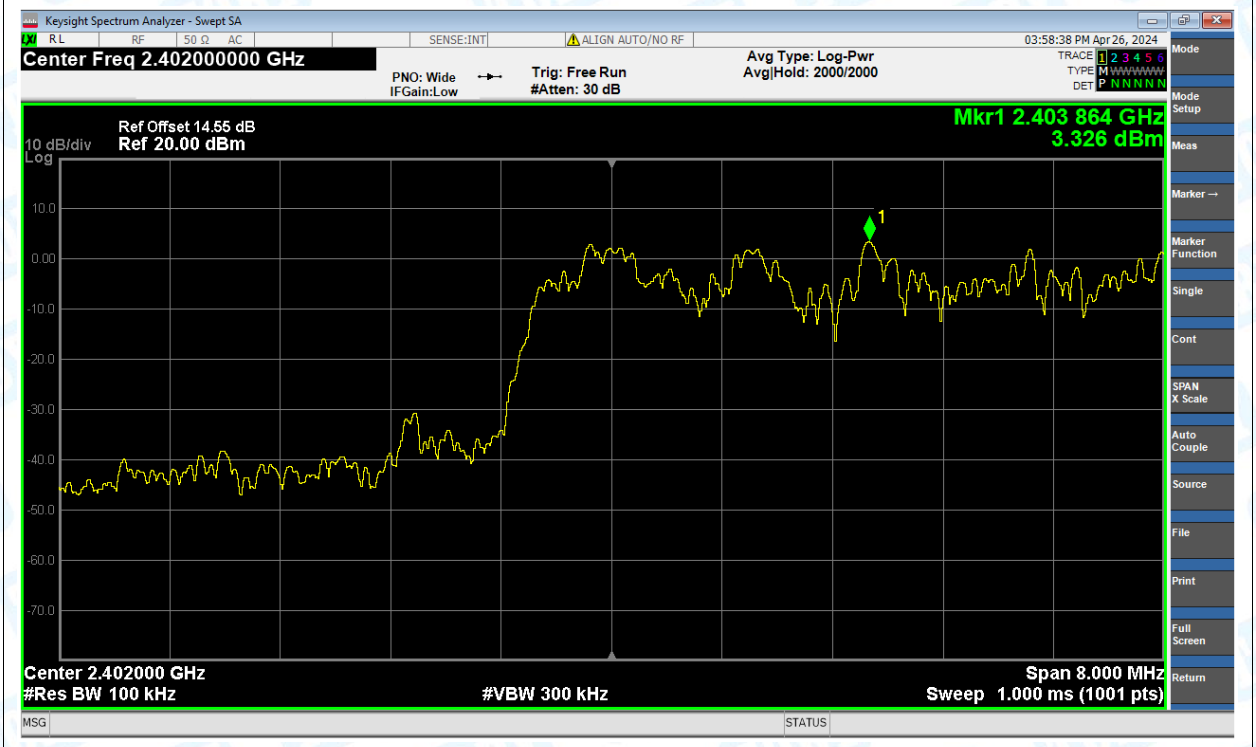
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Ref



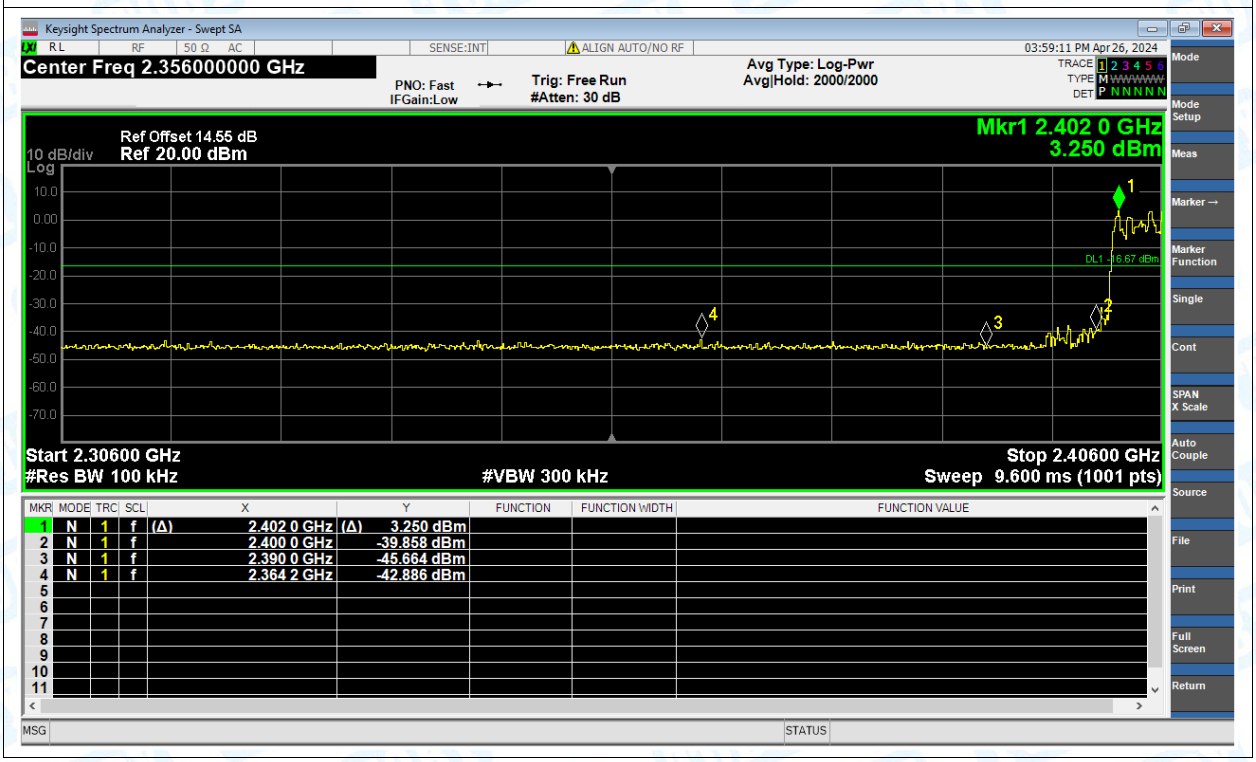
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission



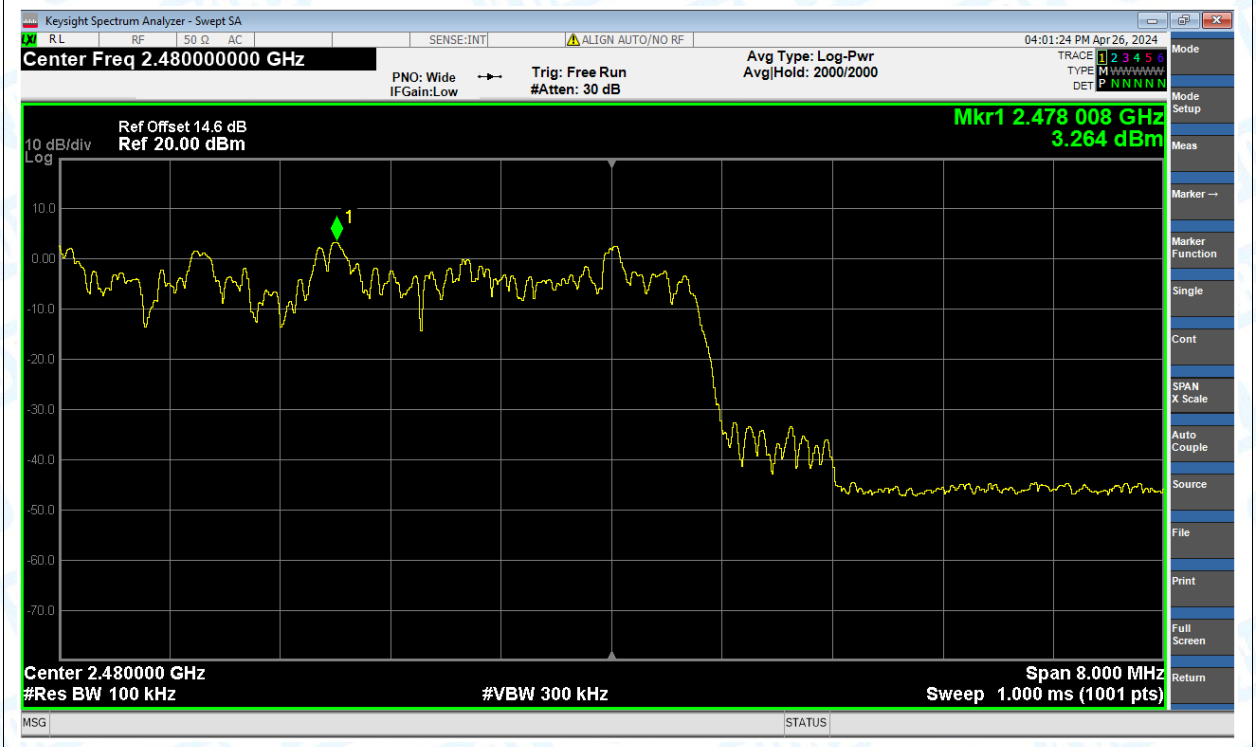
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Ref



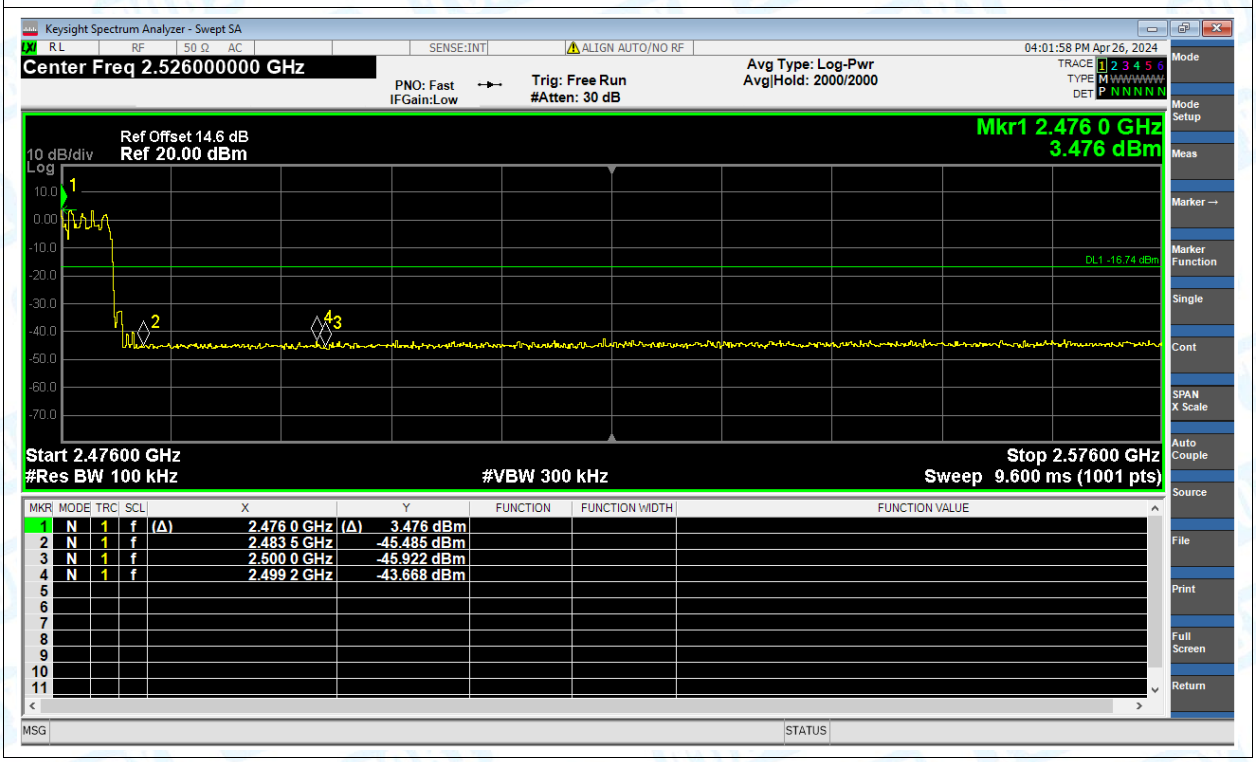
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission



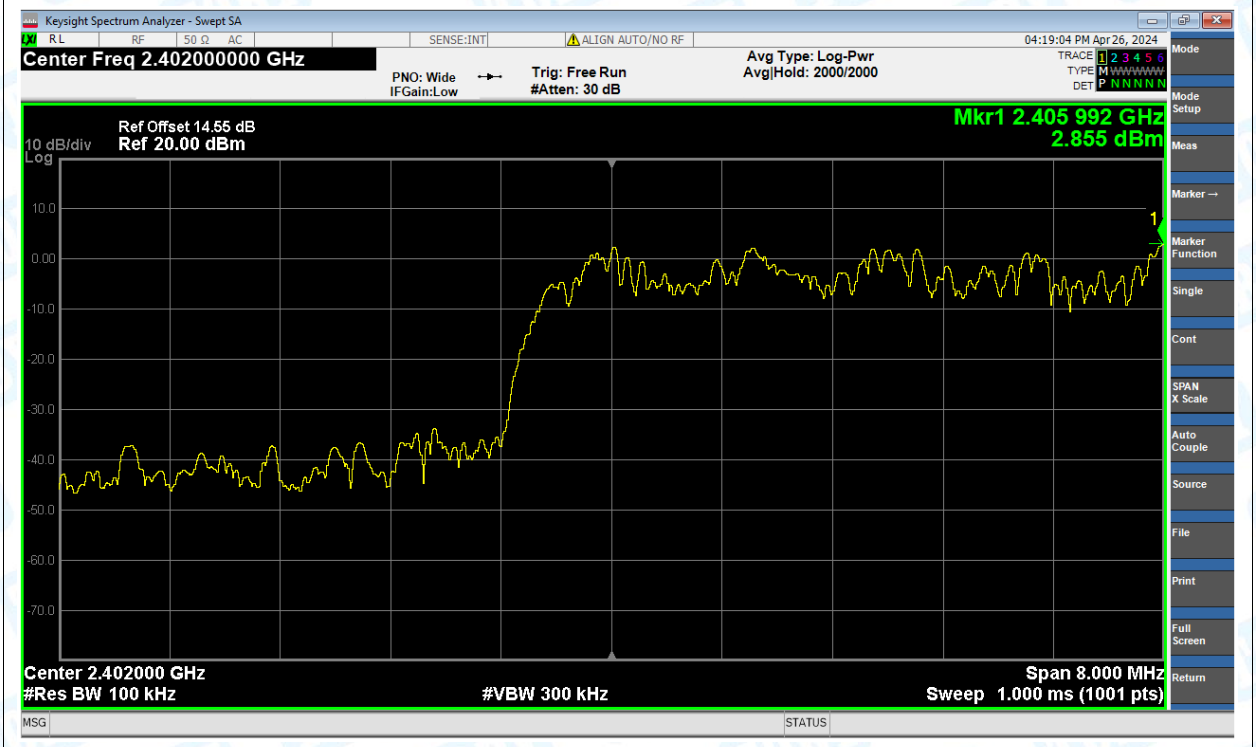
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Ref



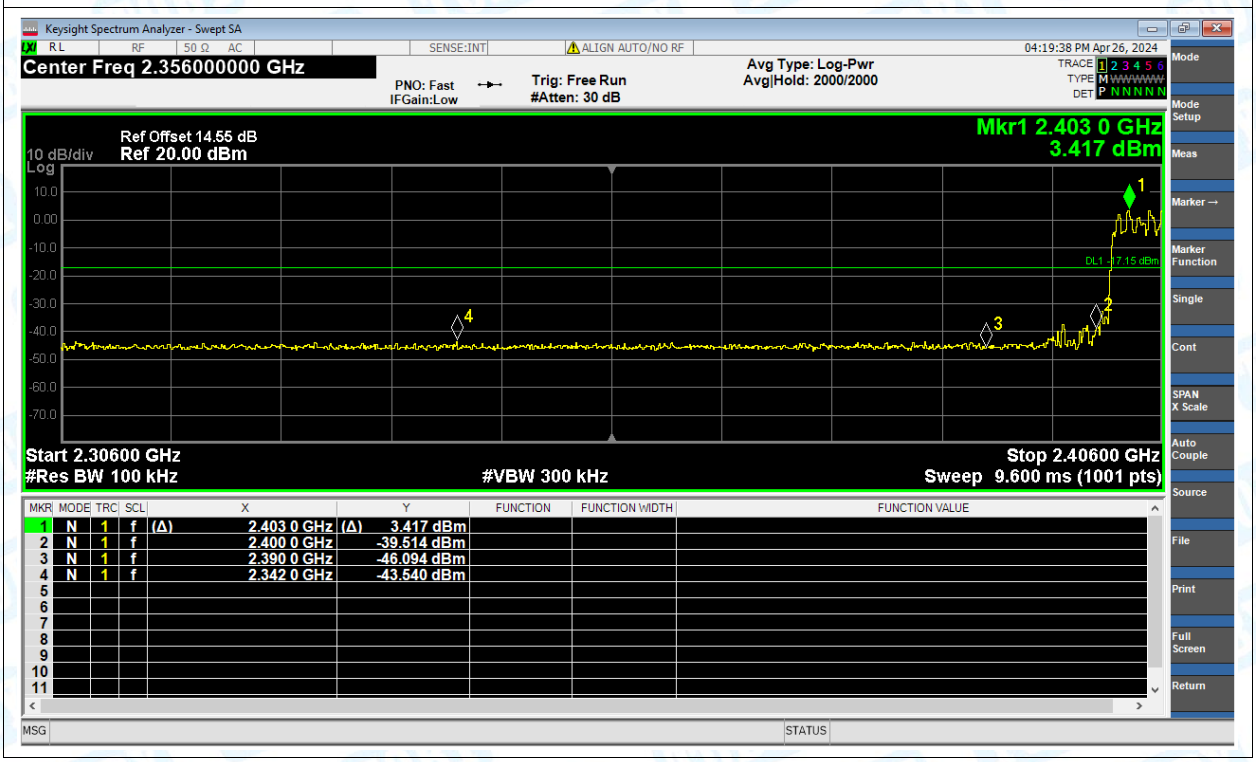
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission



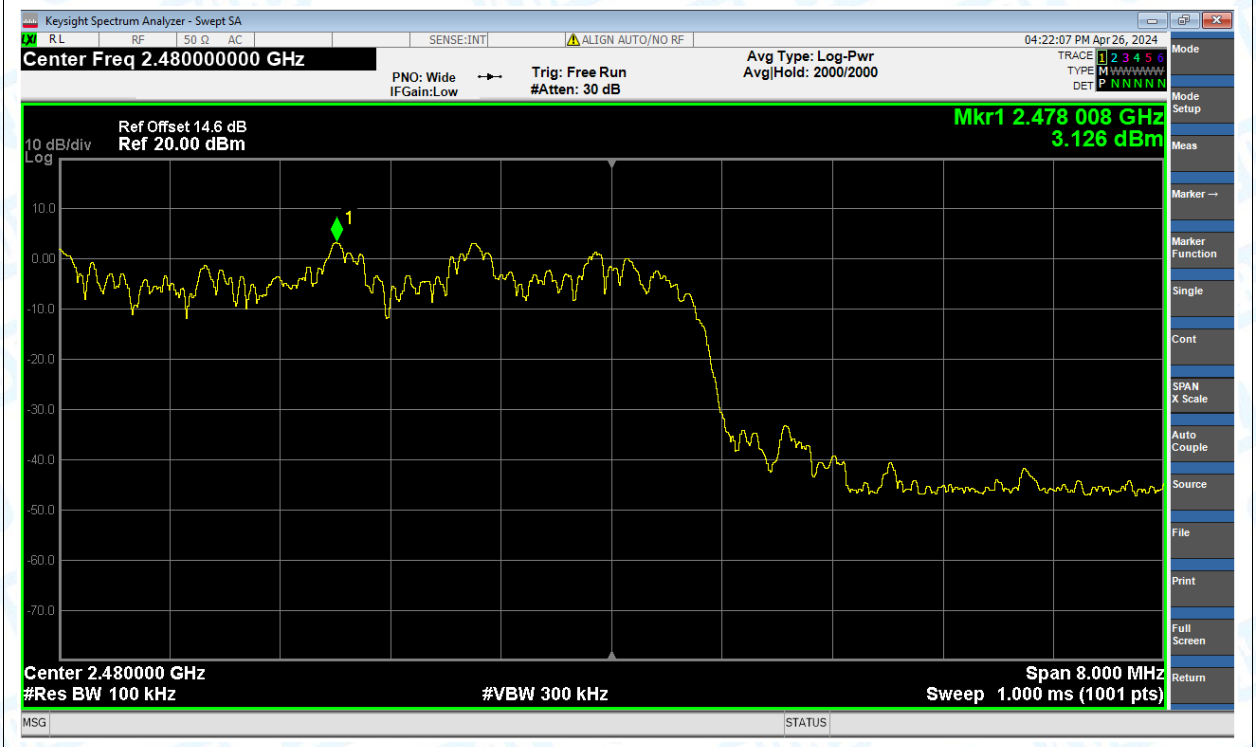
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Ref



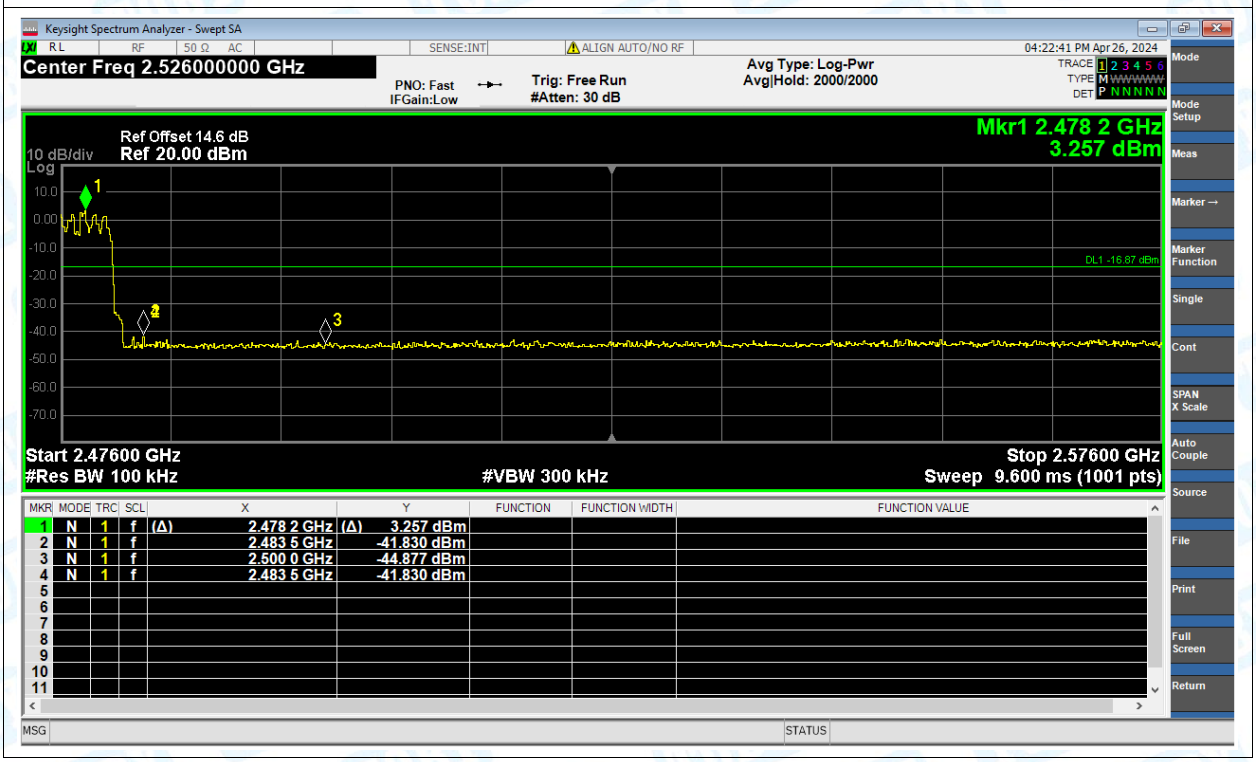
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Emission



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



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

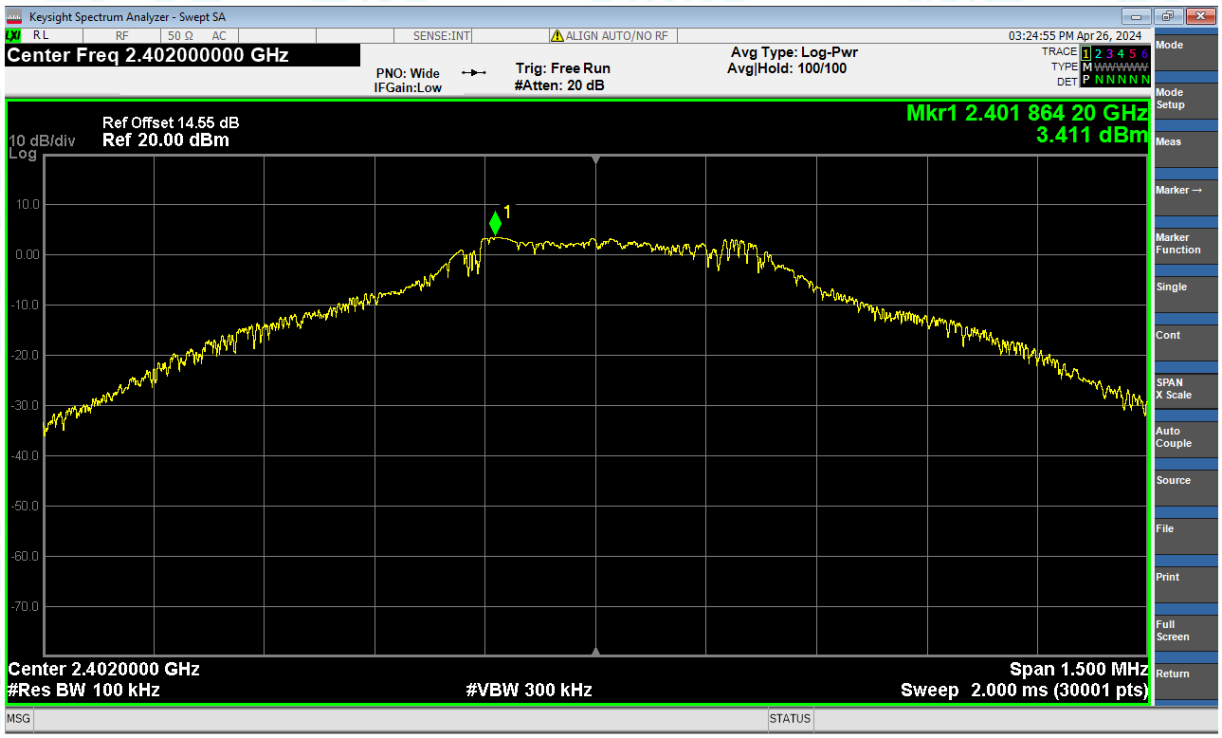


7. Conducted RF Spurious Emission

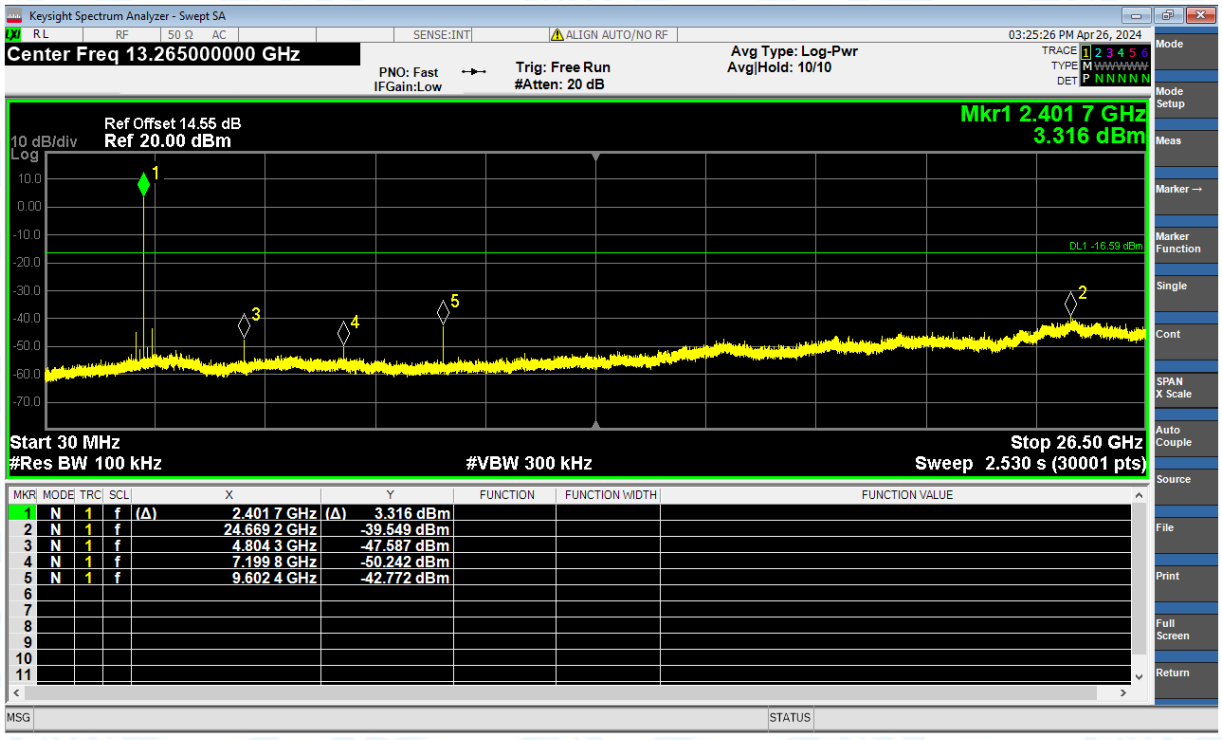
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-42.96	-20	Pass
NVNT	1-DH1	2441	Ant1	-43.3	-20	Pass
NVNT	1-DH1	2480	Ant1	-42.96	-20	Pass
NVNT	2-DH1	2402	Ant1	-42.45	-20	Pass
NVNT	2-DH1	2441	Ant1	-42.32	-20	Pass
NVNT	2-DH1	2480	Ant1	-43.34	-20	Pass
NVNT	3-DH1	2402	Ant1	-43.75	-20	Pass
NVNT	3-DH1	2441	Ant1	-42.98	-20	Pass
NVNT	3-DH1	2480	Ant1	-42.45	-20	Pass

Test Graphs

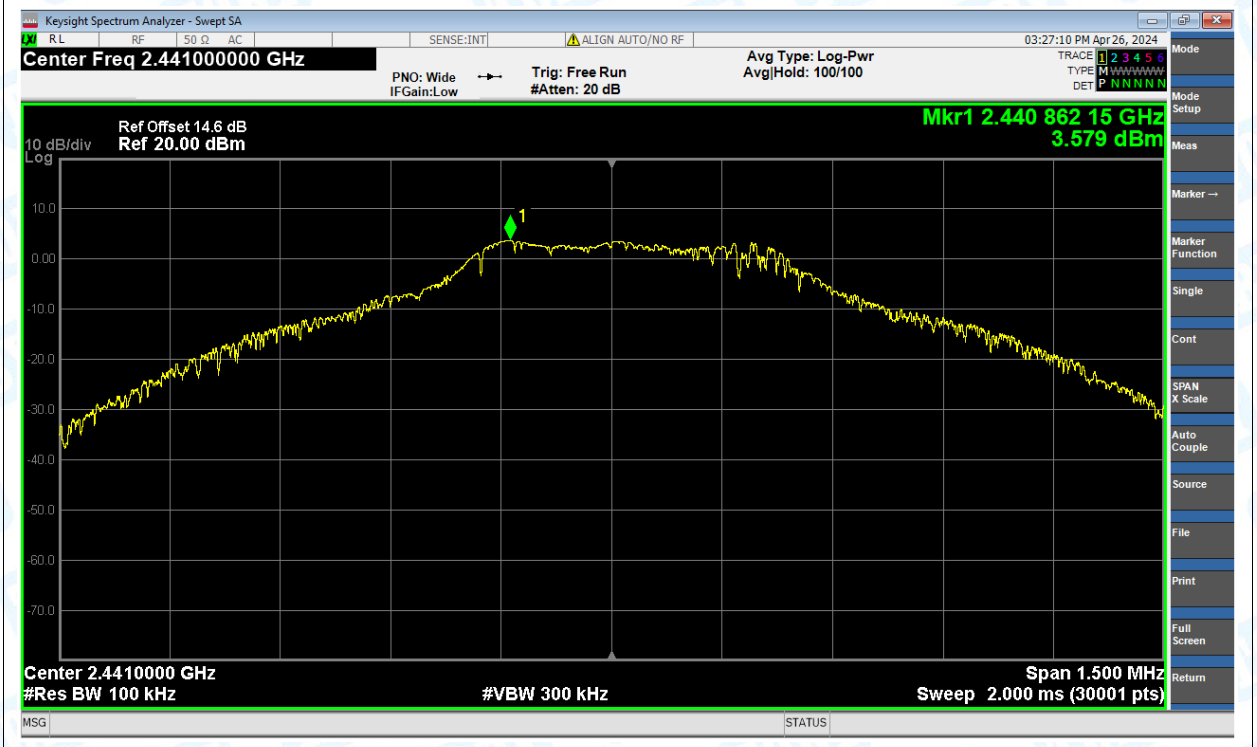
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



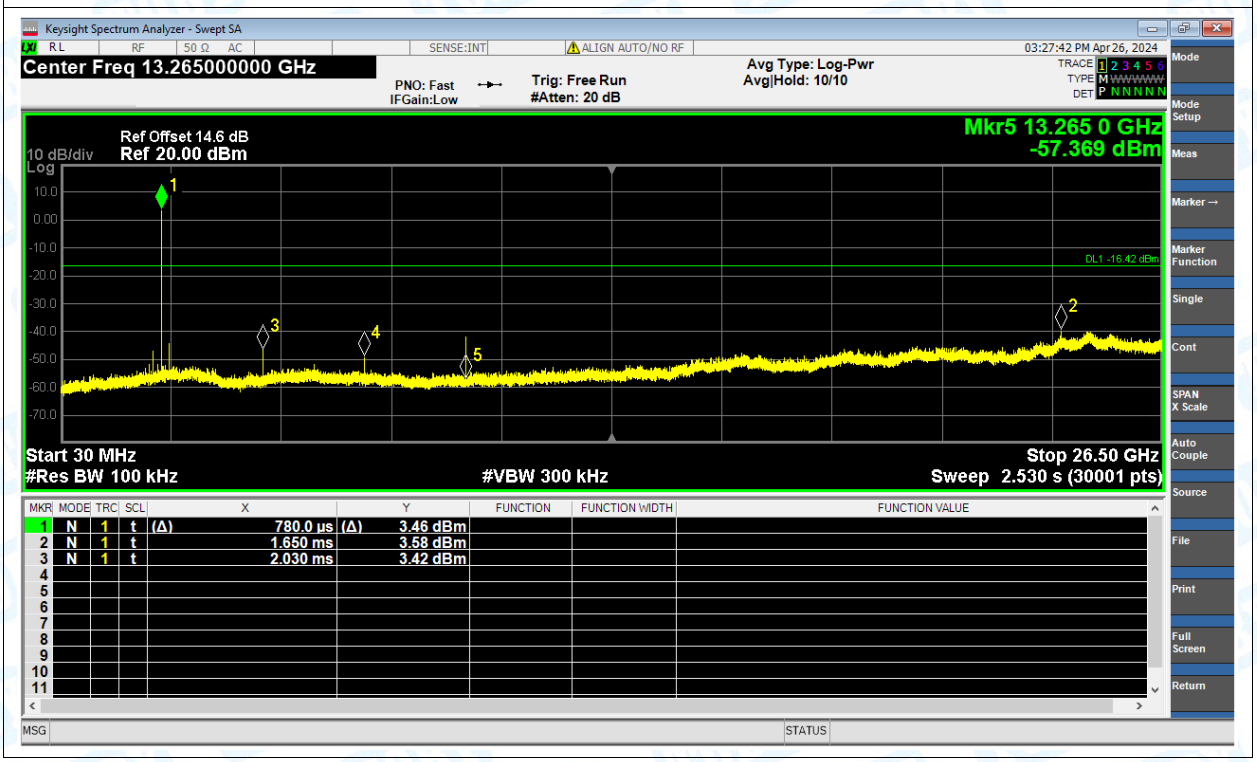
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



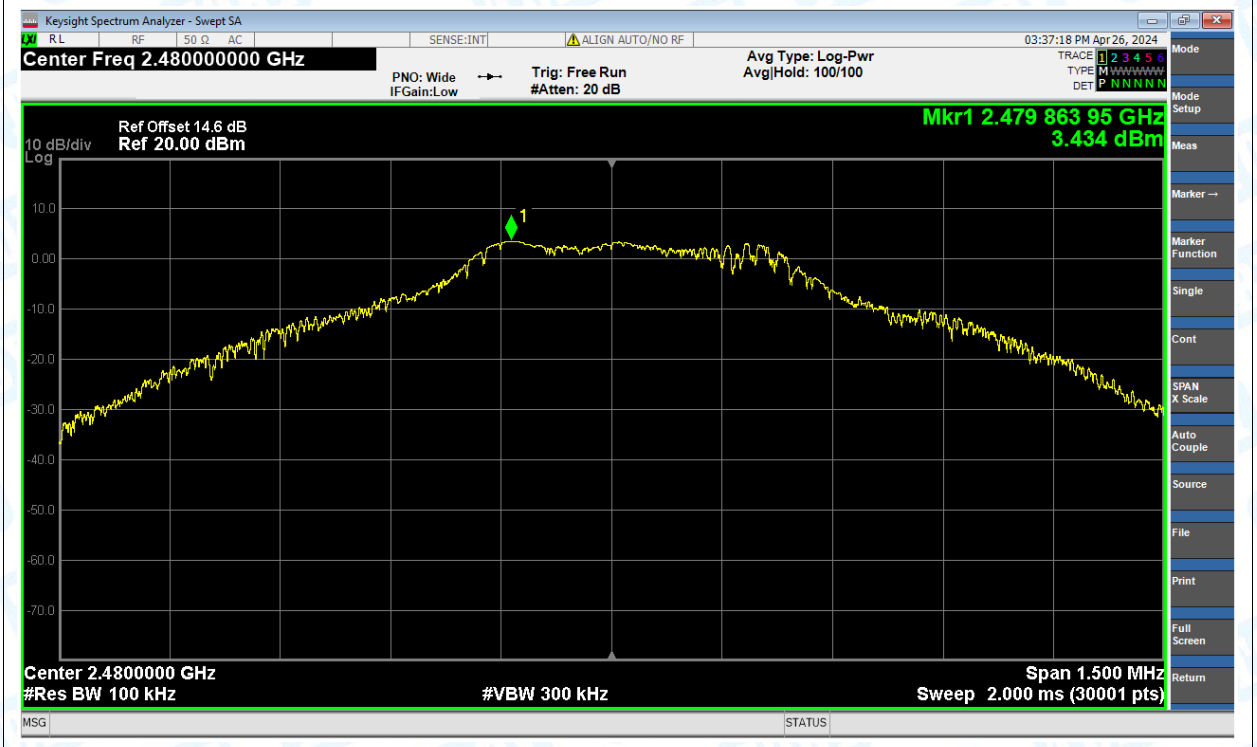
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



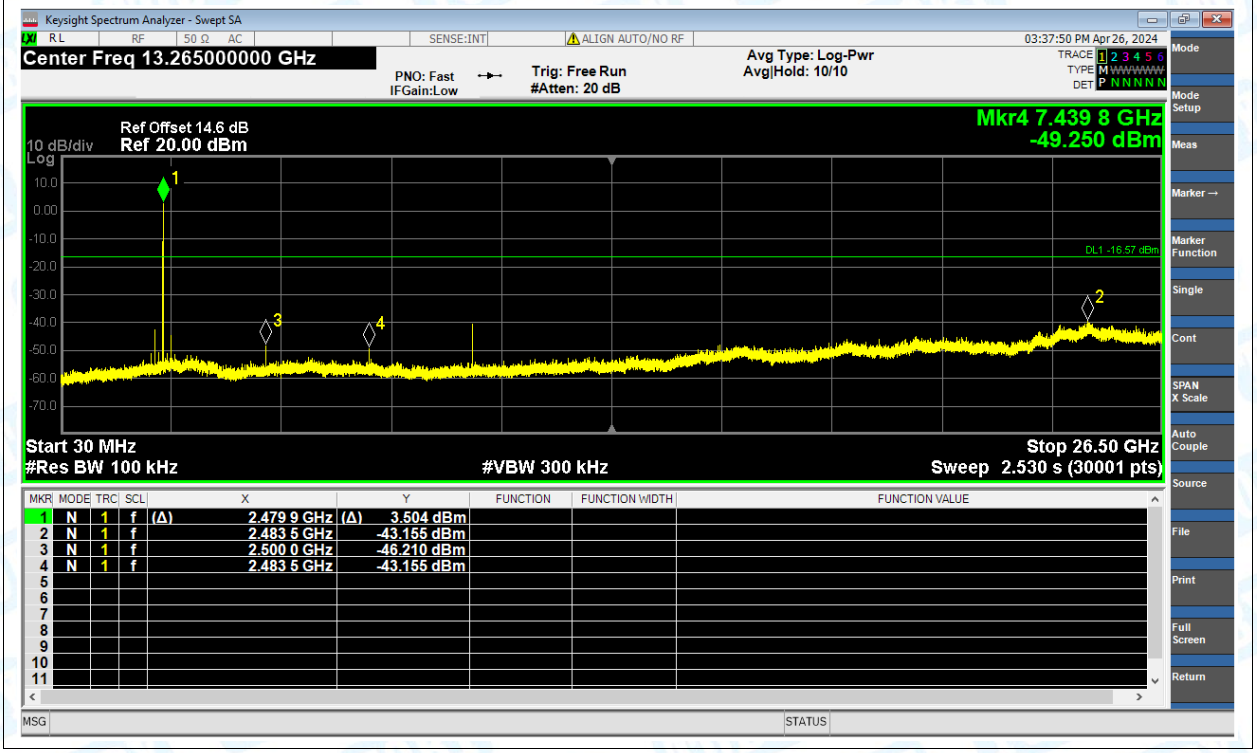
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



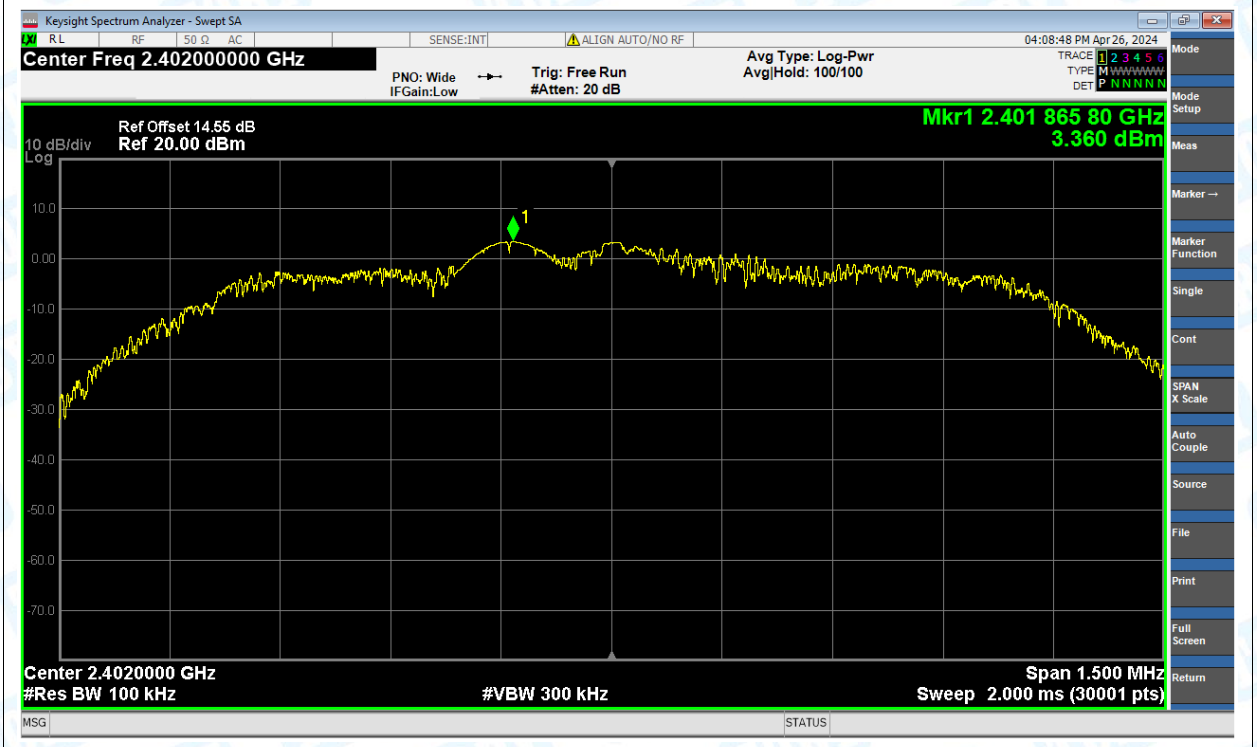
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



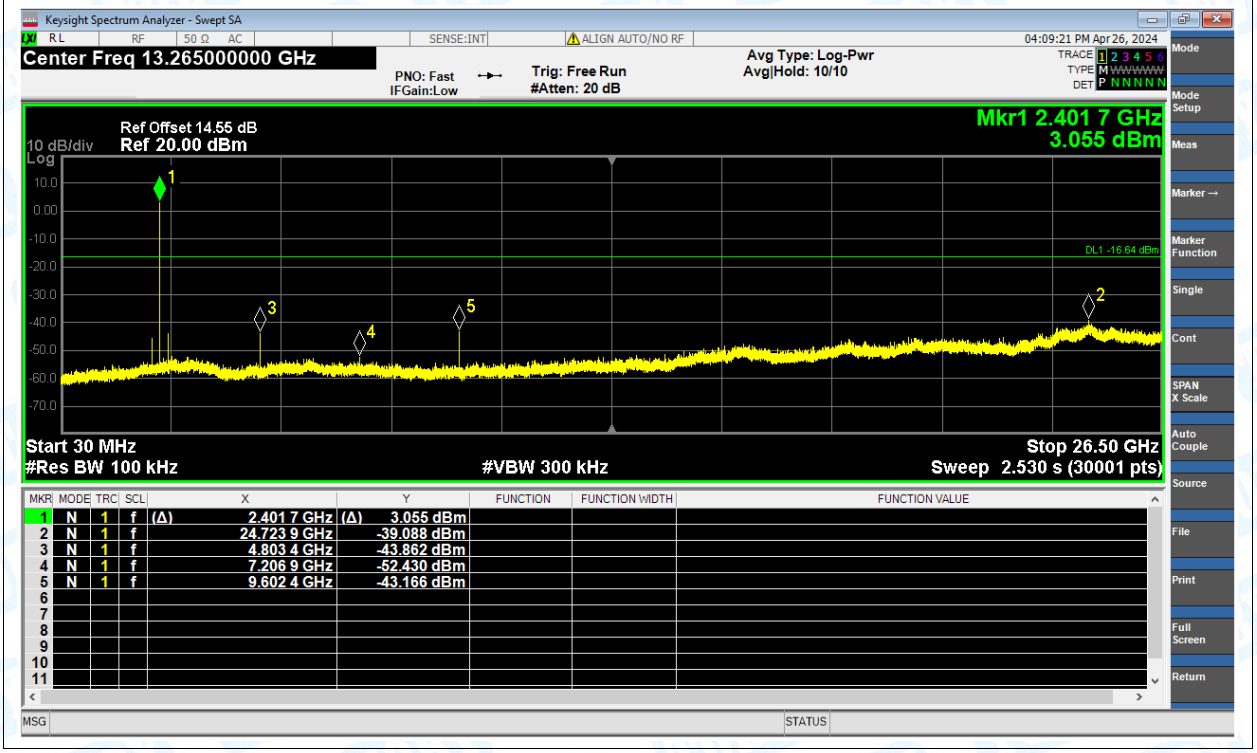
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



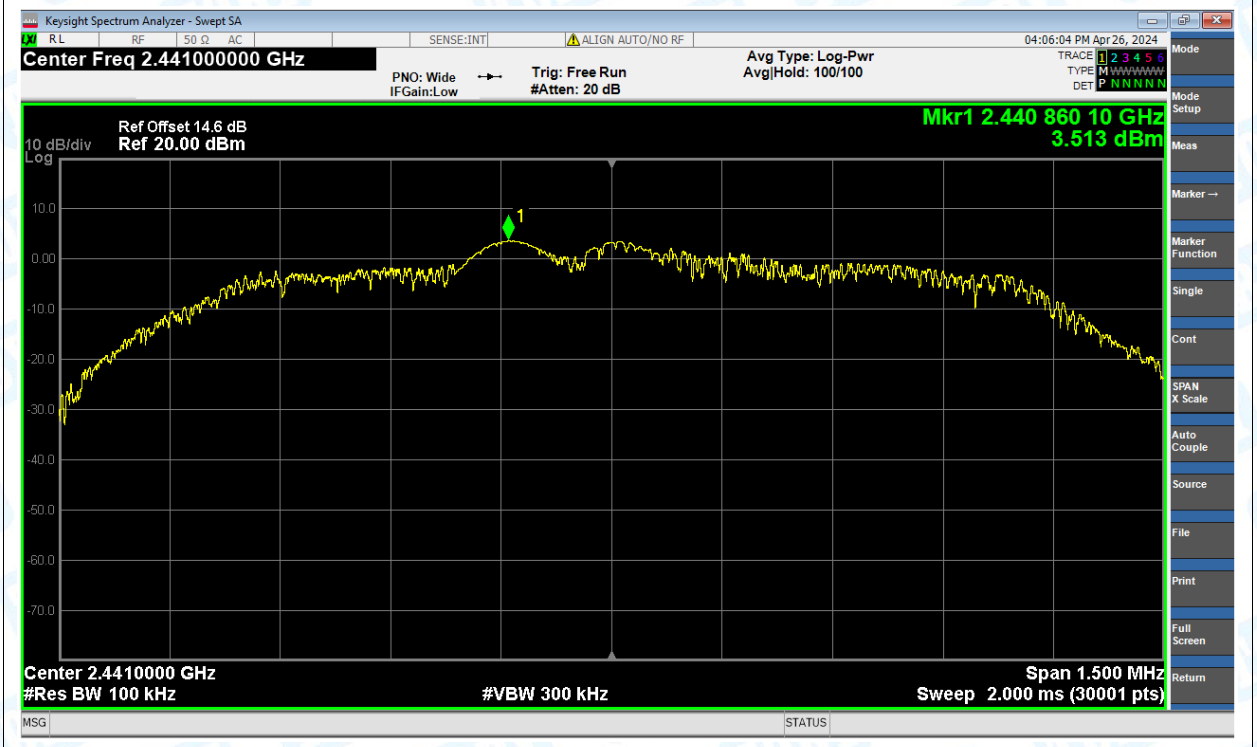
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



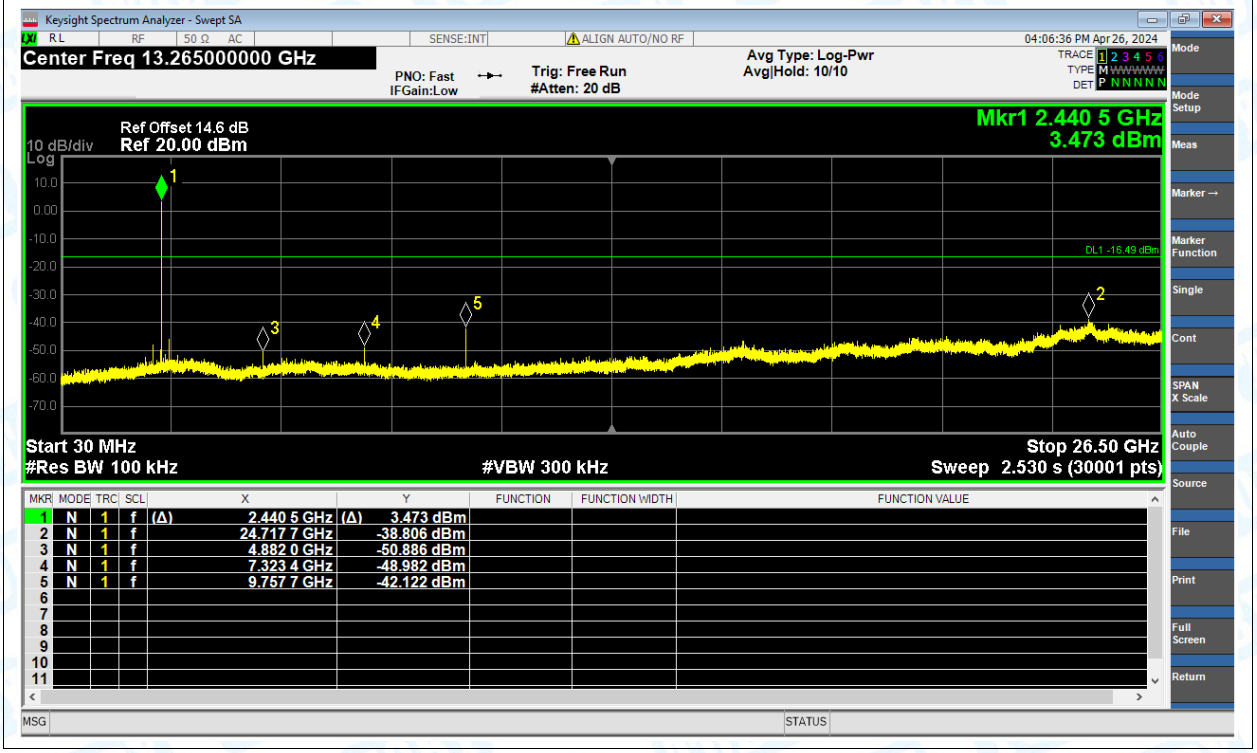
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



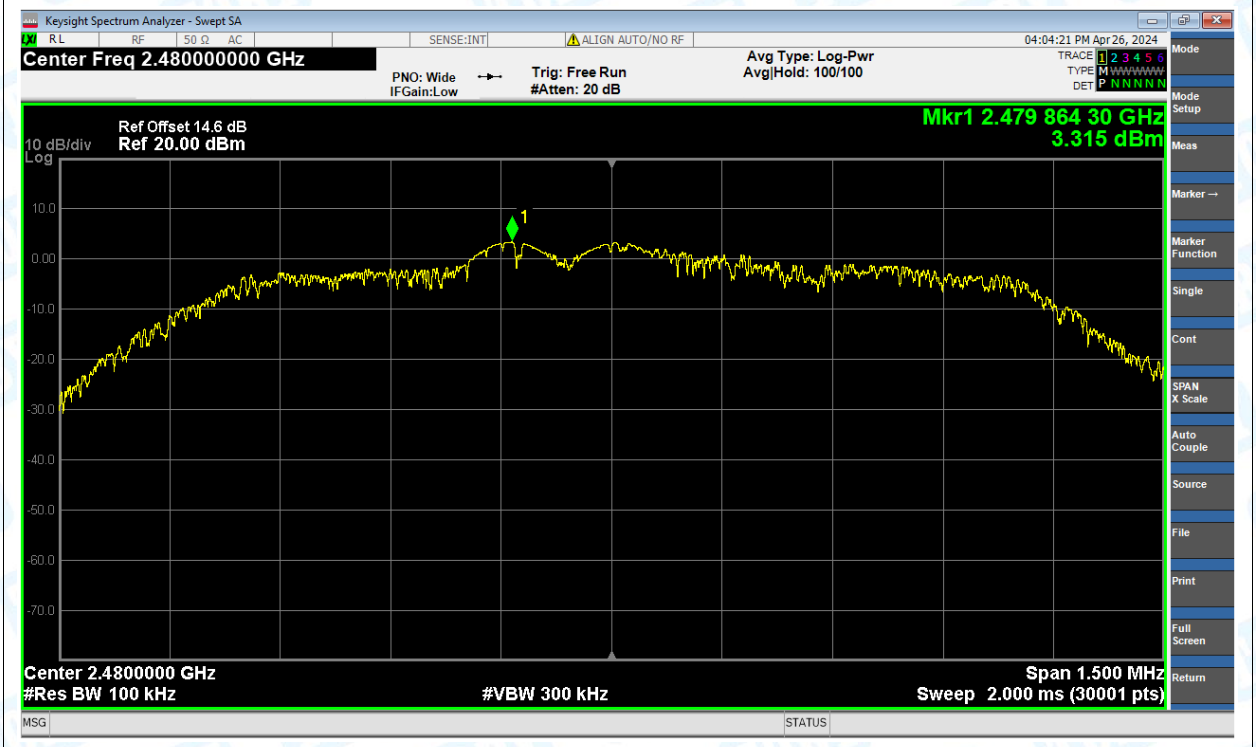
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



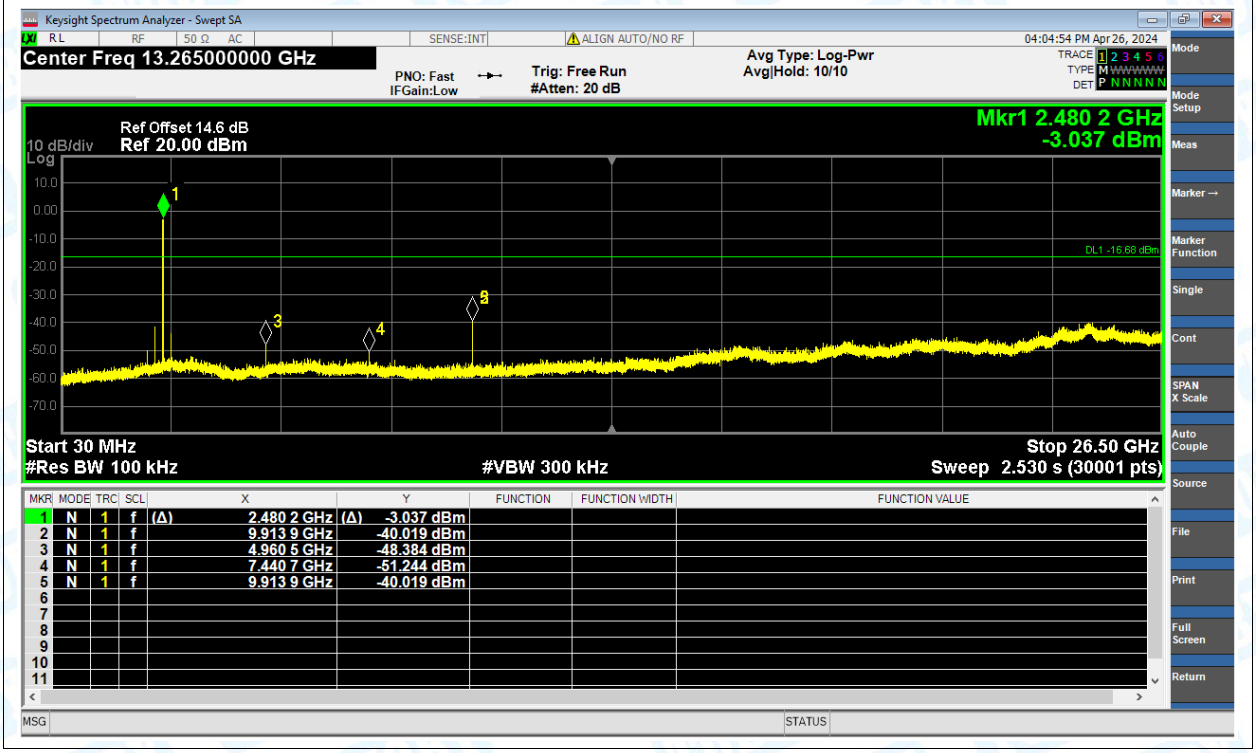
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



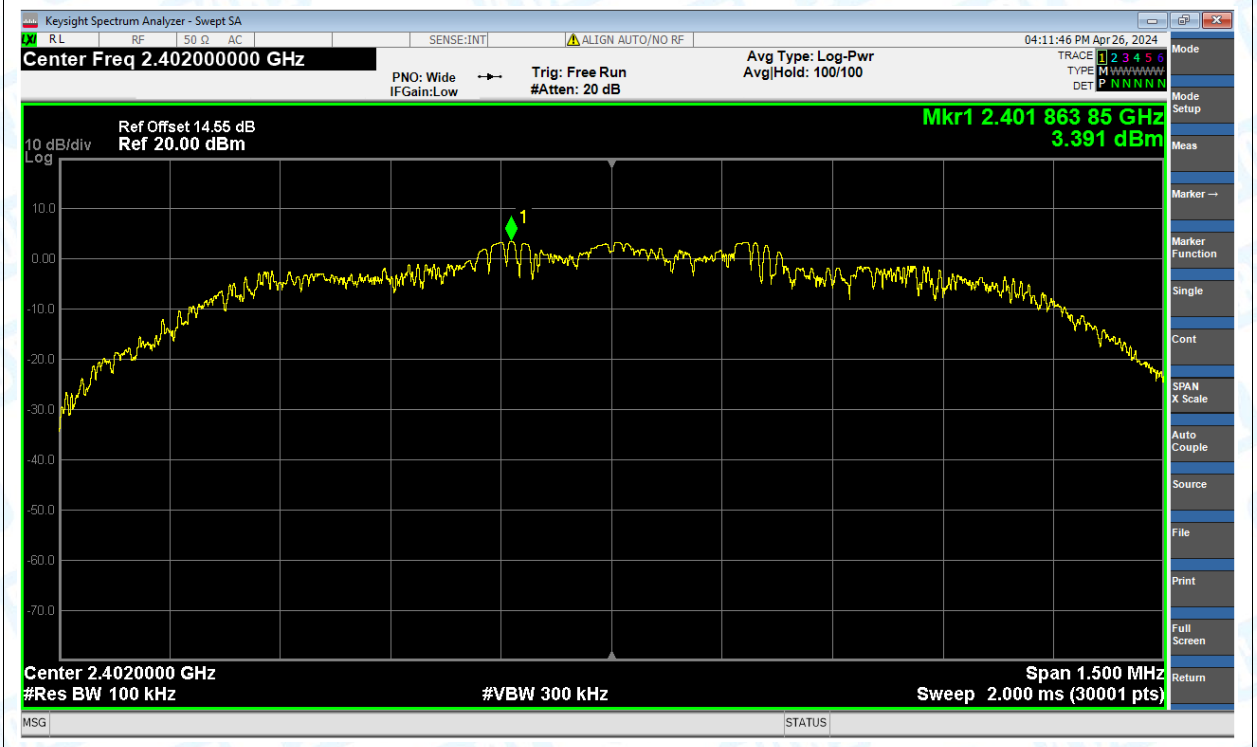
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



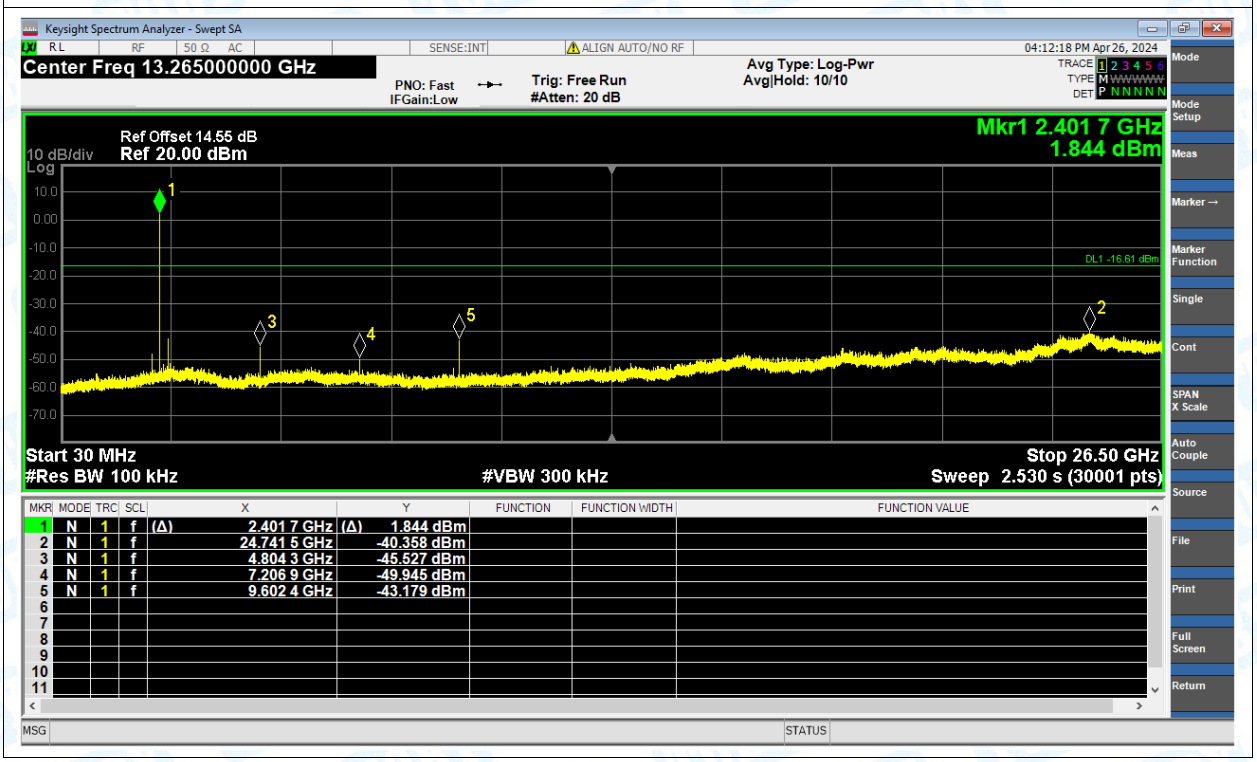
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission



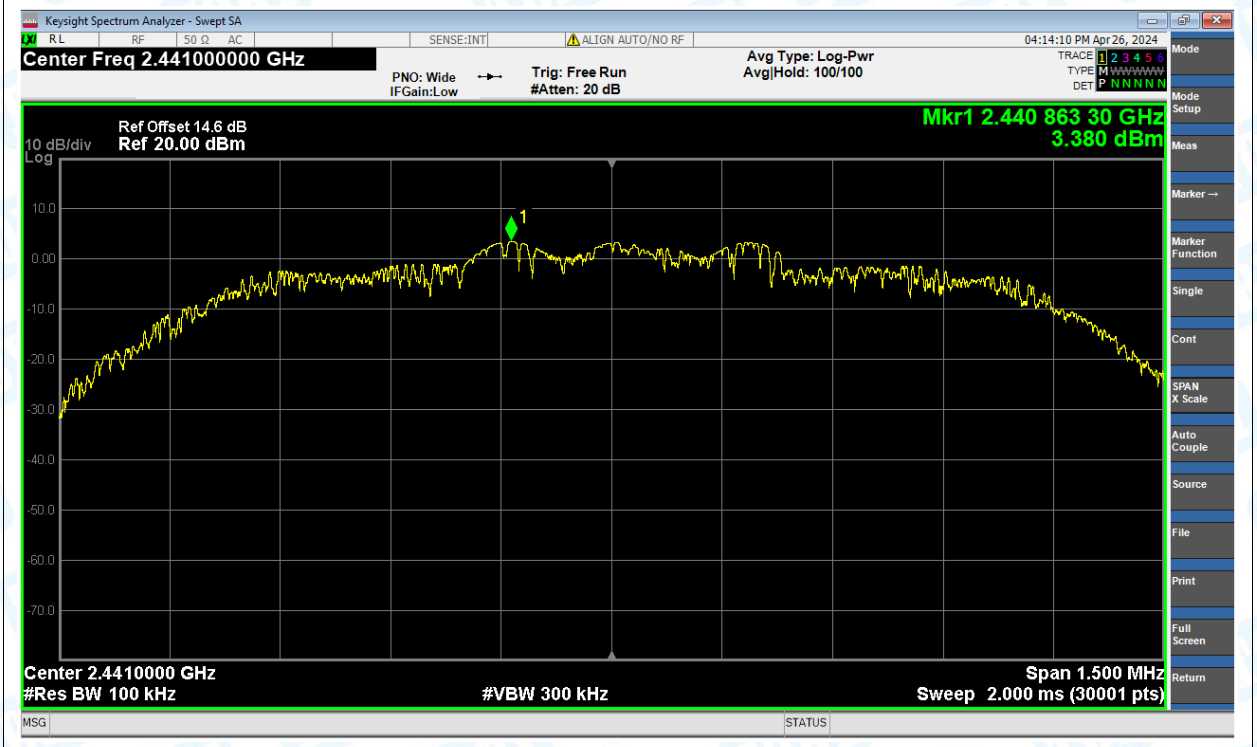
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



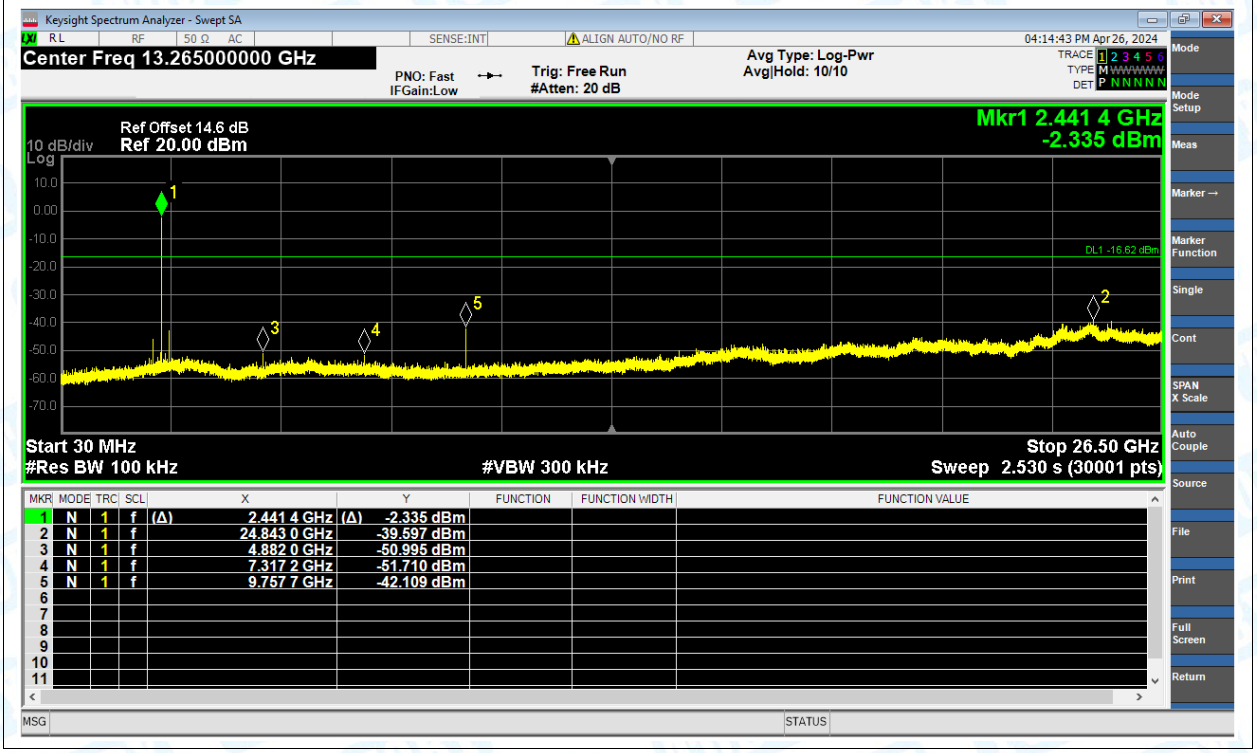
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission



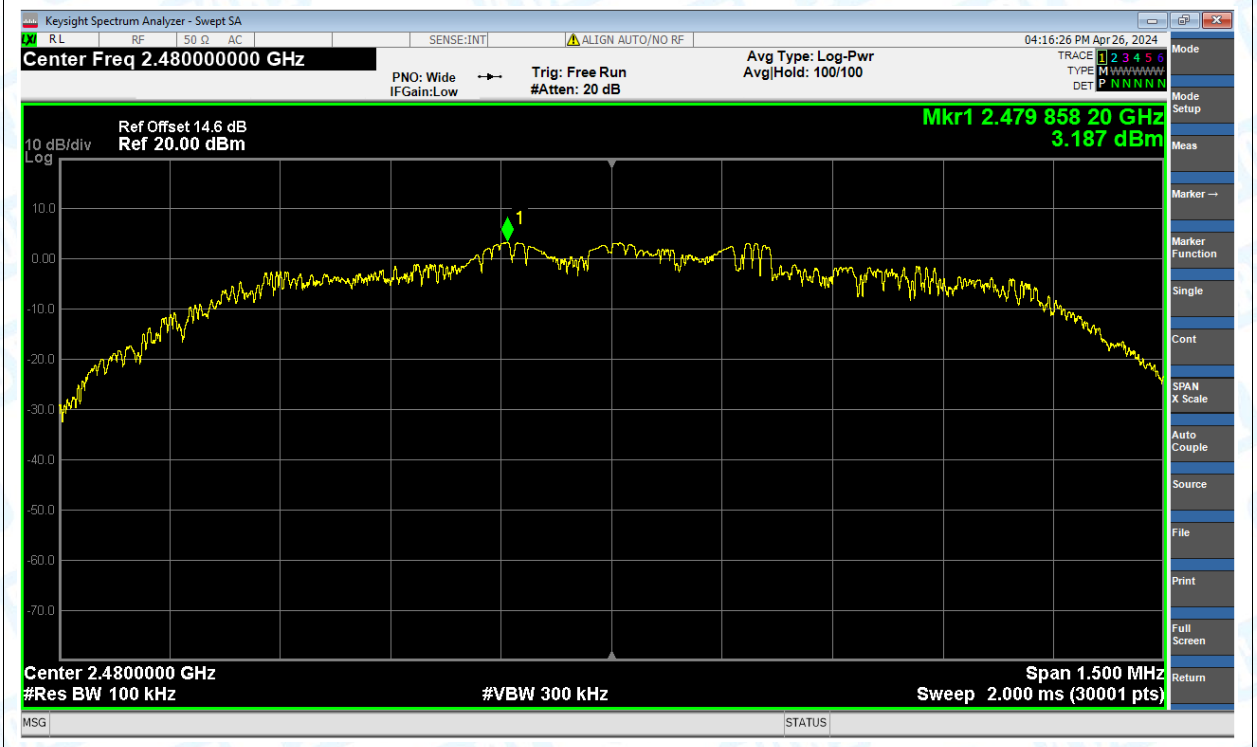
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



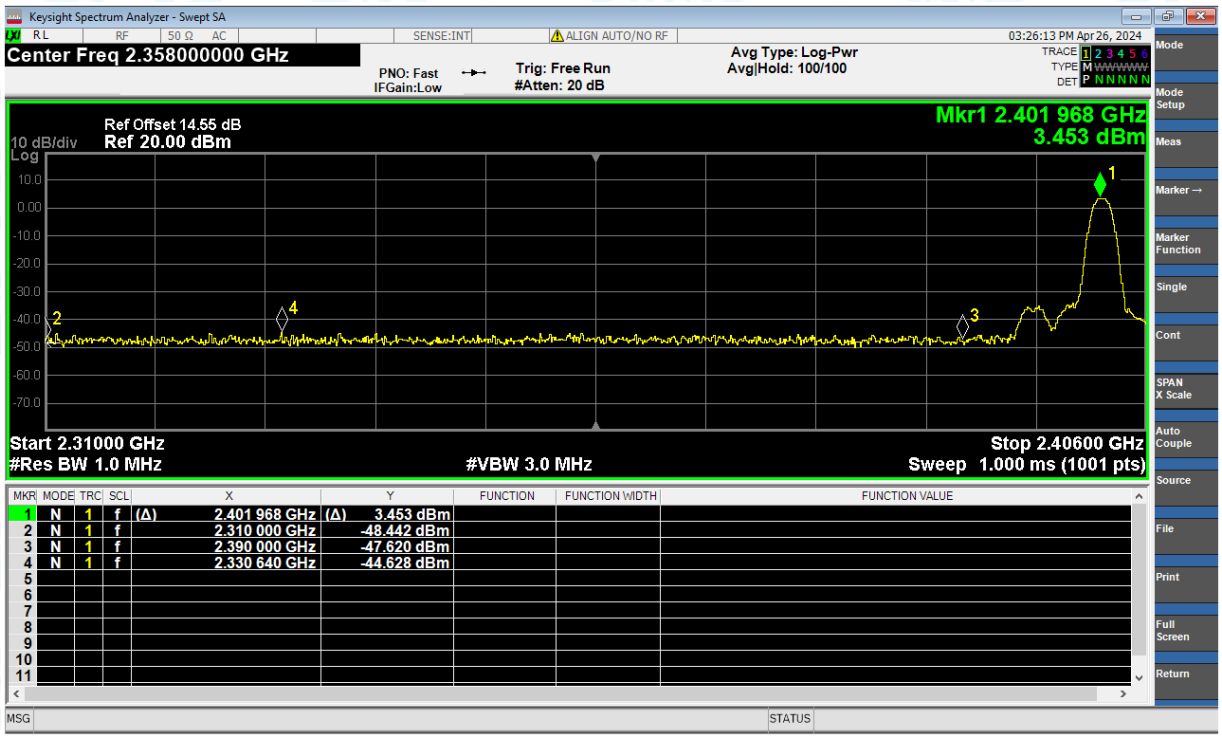
Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

8. Restrict Band

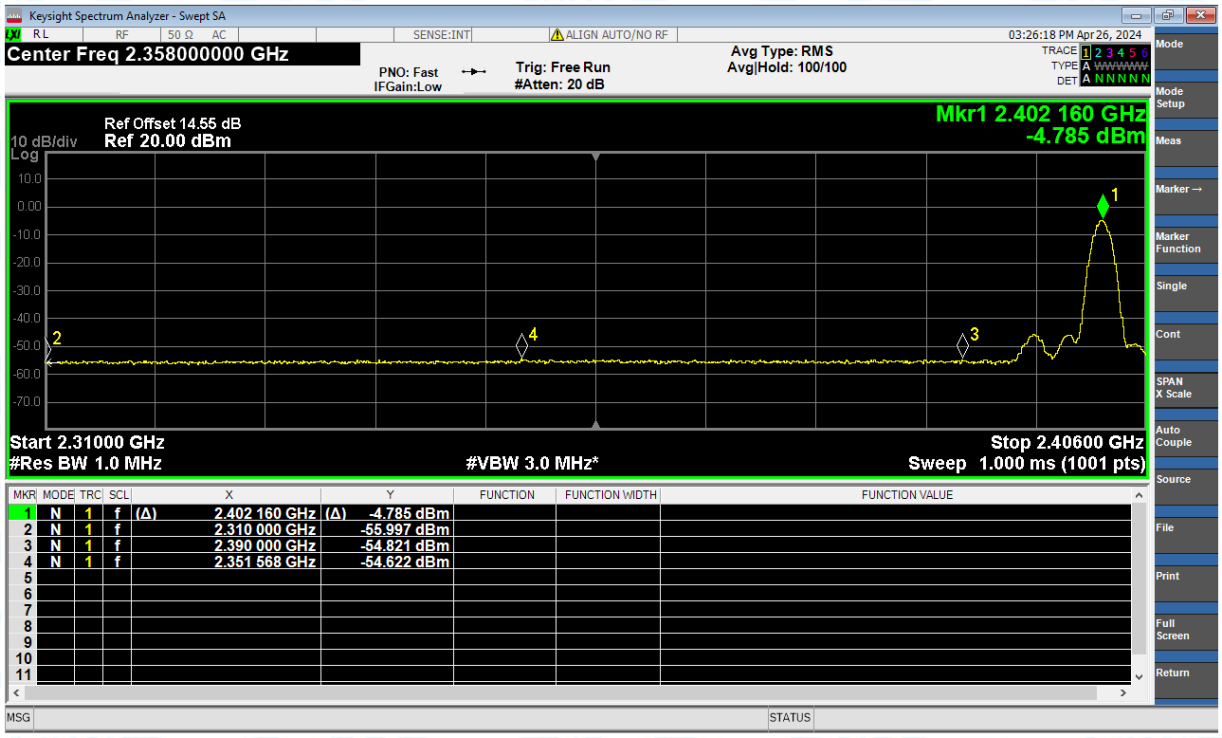
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-48.44	2	-	48.82	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-56	2	5.09	46.35	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2330.64	-44.63	2	-	52.63	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2351.568	-54.62	2	5.09	47.73	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-47.62	2	-	49.64	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-54.82	2	5.09	47.53	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-44.42	2	-	52.84	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-53.71	2	5.06	48.61	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.656	-42.94	2	-	54.32	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.56	-53.18	2	5.06	49.14	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-47.19	2	-	50.07	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-54.97	2	5.06	47.35	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-47.3	2	-	49.96	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-55.96	2	4.95	46.25	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2369.136	-44.08	2	-	53.18	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2353.104	-54.58	2	4.95	47.63	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-47.84	2	-	49.42	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-54.96	2	4.95	47.25	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-39.49	2	-	57.77	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-50.23	2	5.06	52.09	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.776	-38.64	2	-	58.62	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.56	-49.54	2	5.06	52.78	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-46.18	2	-	51.08	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-54.76	2	5.06	47.56	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-47.52	2	-	49.74	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-55.55	2	5.06	46.77	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2359.056	-42.99	2	-	54.27	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2354.16	-54.37	2	5.06	47.95	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-48.49	2	-	48.77	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-55.42	2	5.06	46.9	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-38.76	2	-	58.5	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-49.38	2	5.06	52.94	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.512	-38.75	2	-	58.51	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.512	-49.38	2	5.06	52.94	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-48.26	2	-	49	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-55.23	2	5.06	47.09	Average	54	Pass

Test Graphs

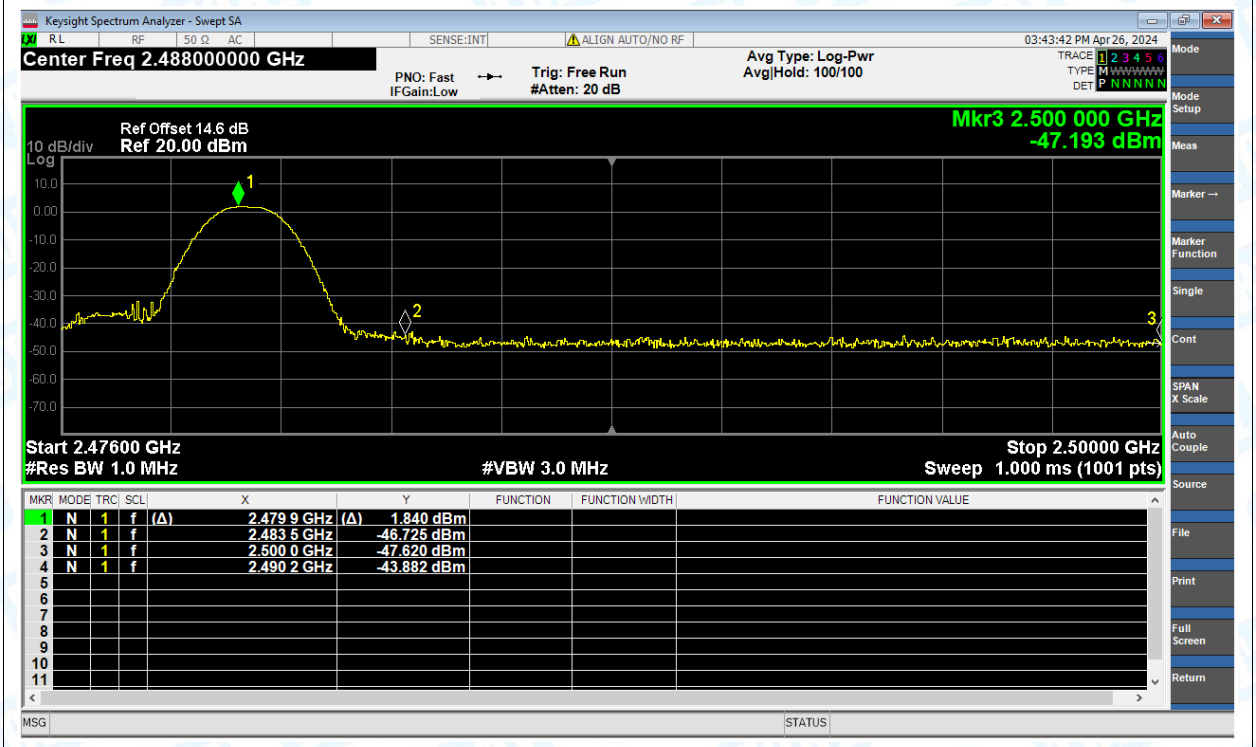
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



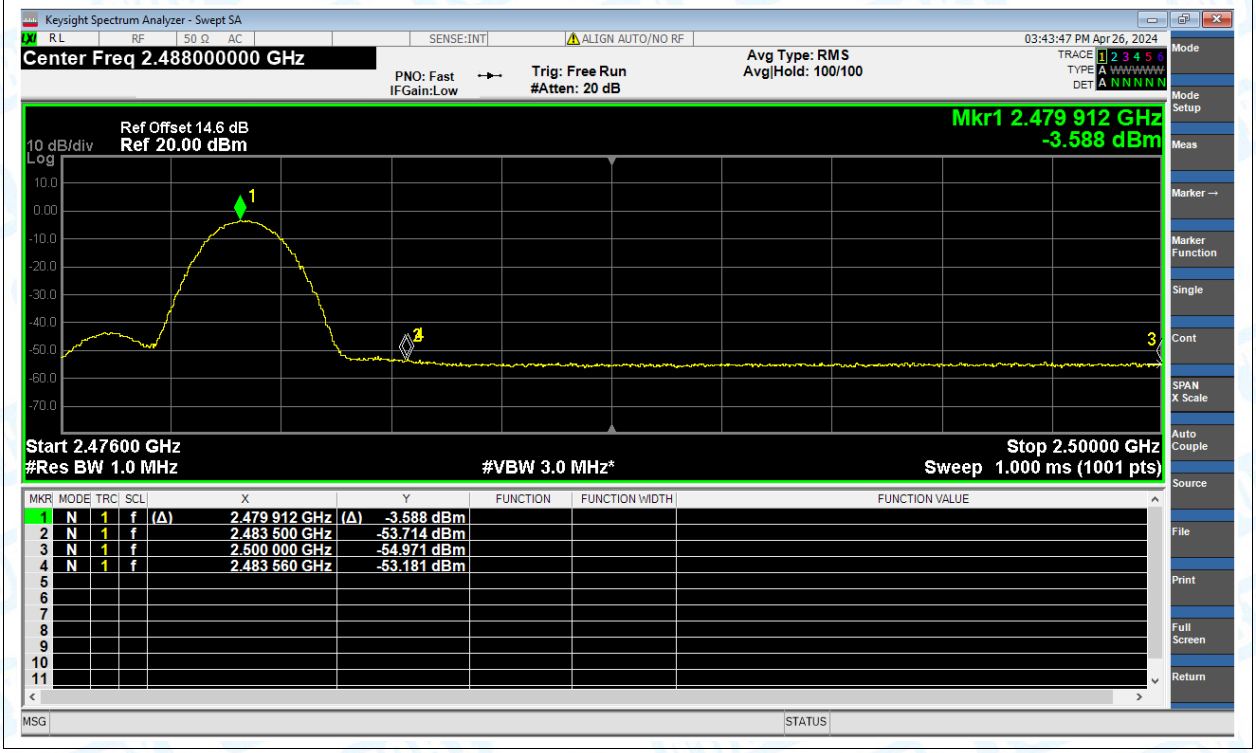
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



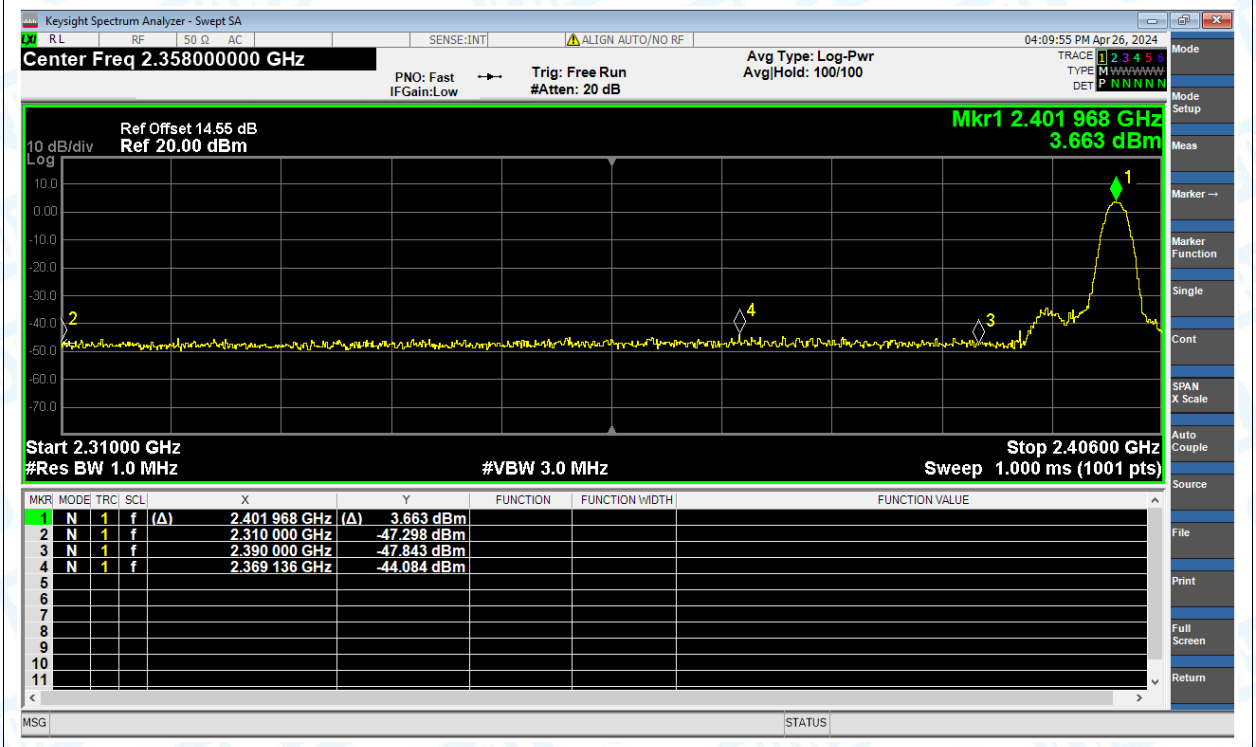
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



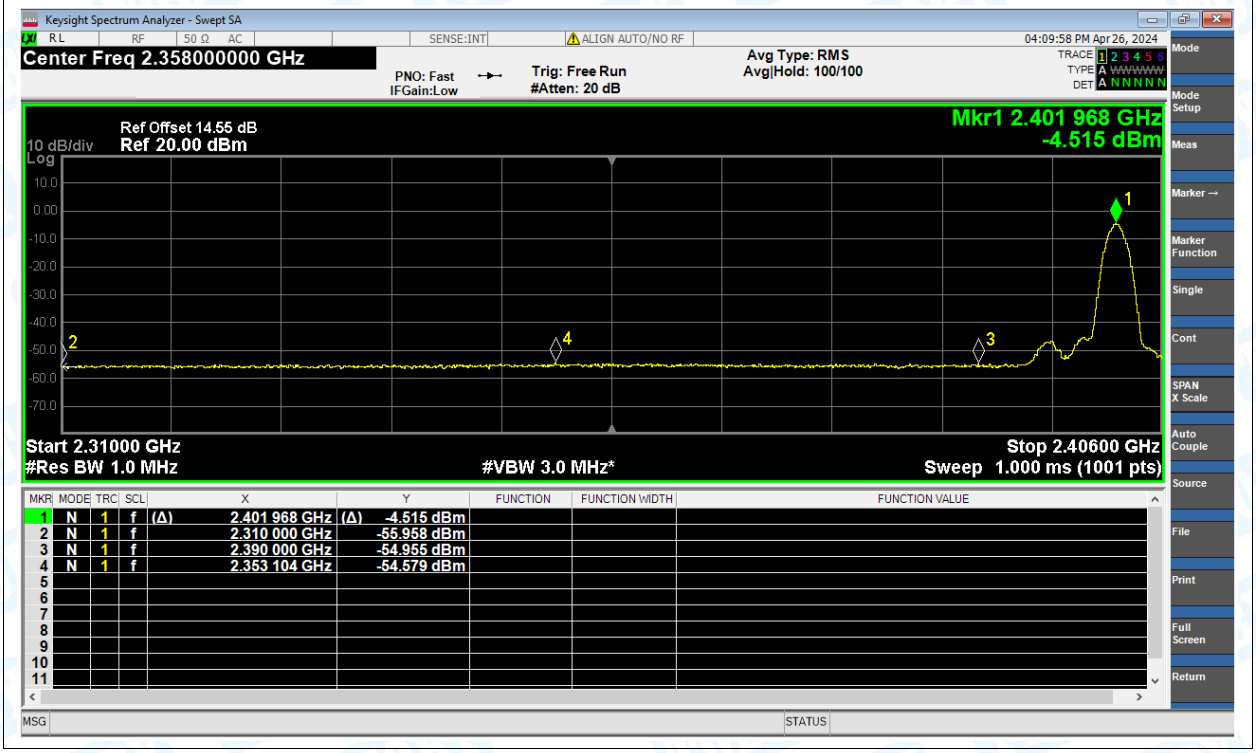
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



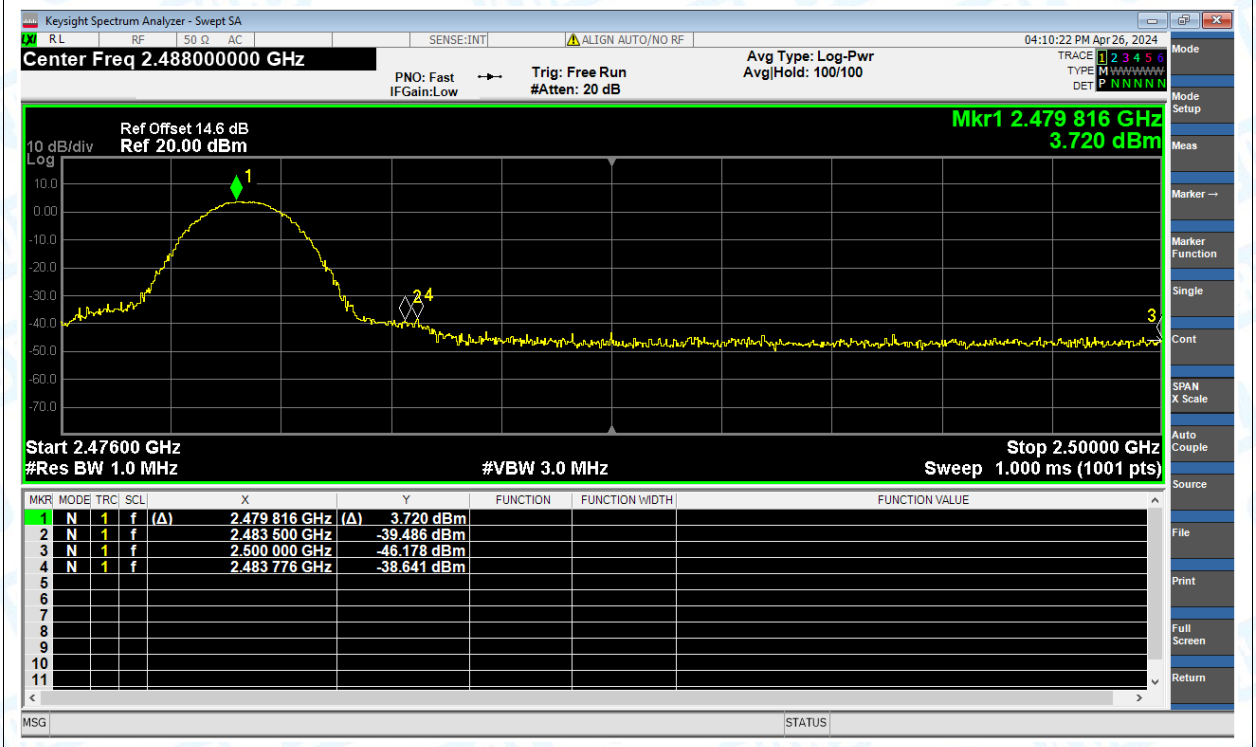
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



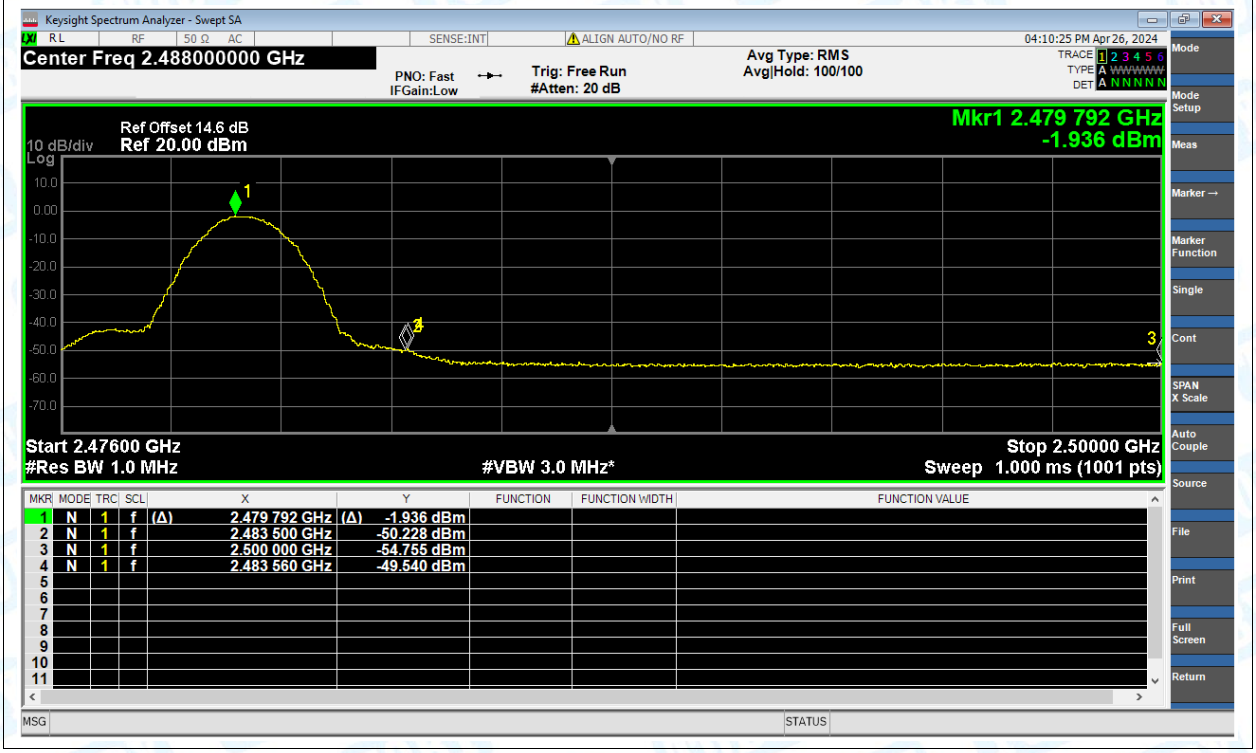
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Average



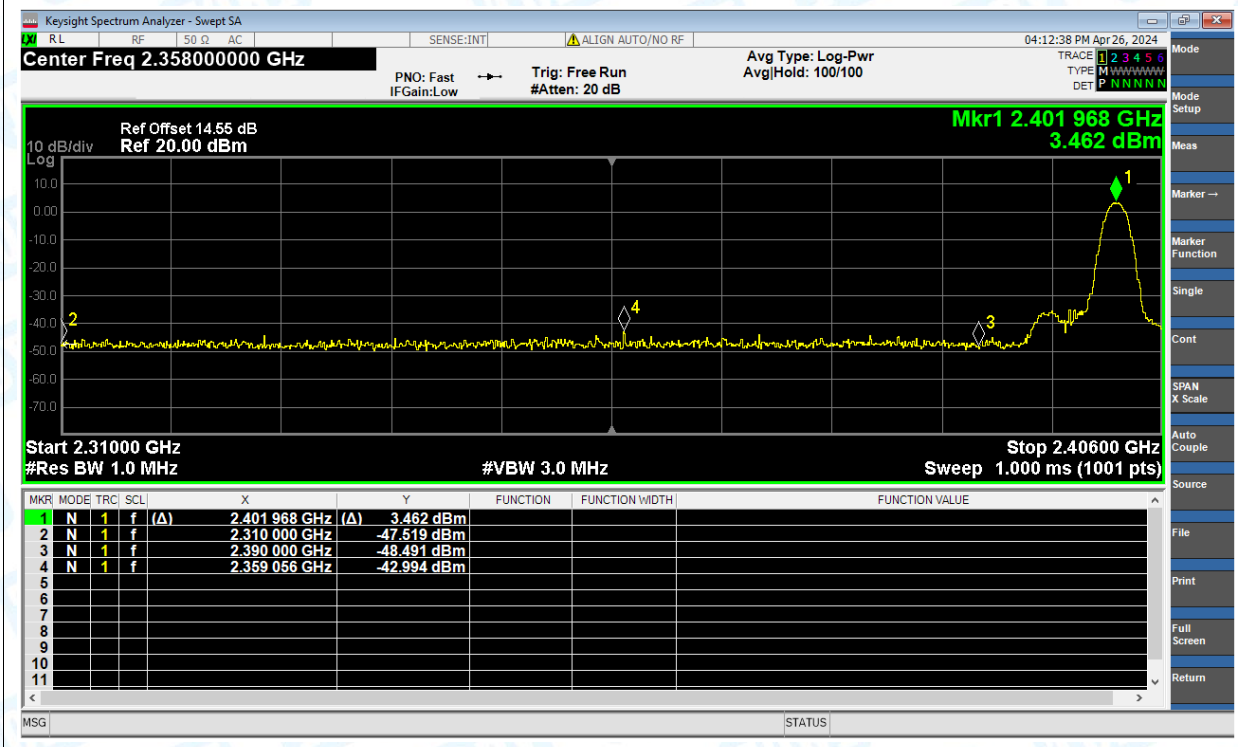
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak



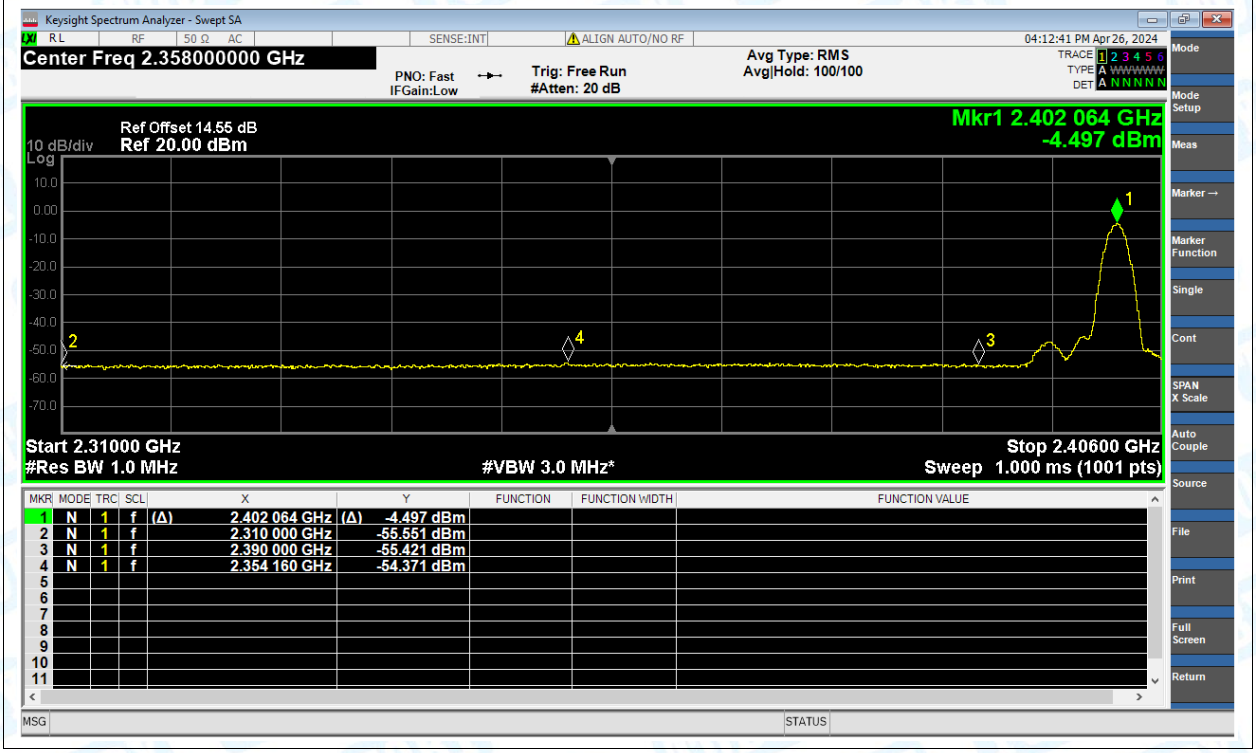
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Average



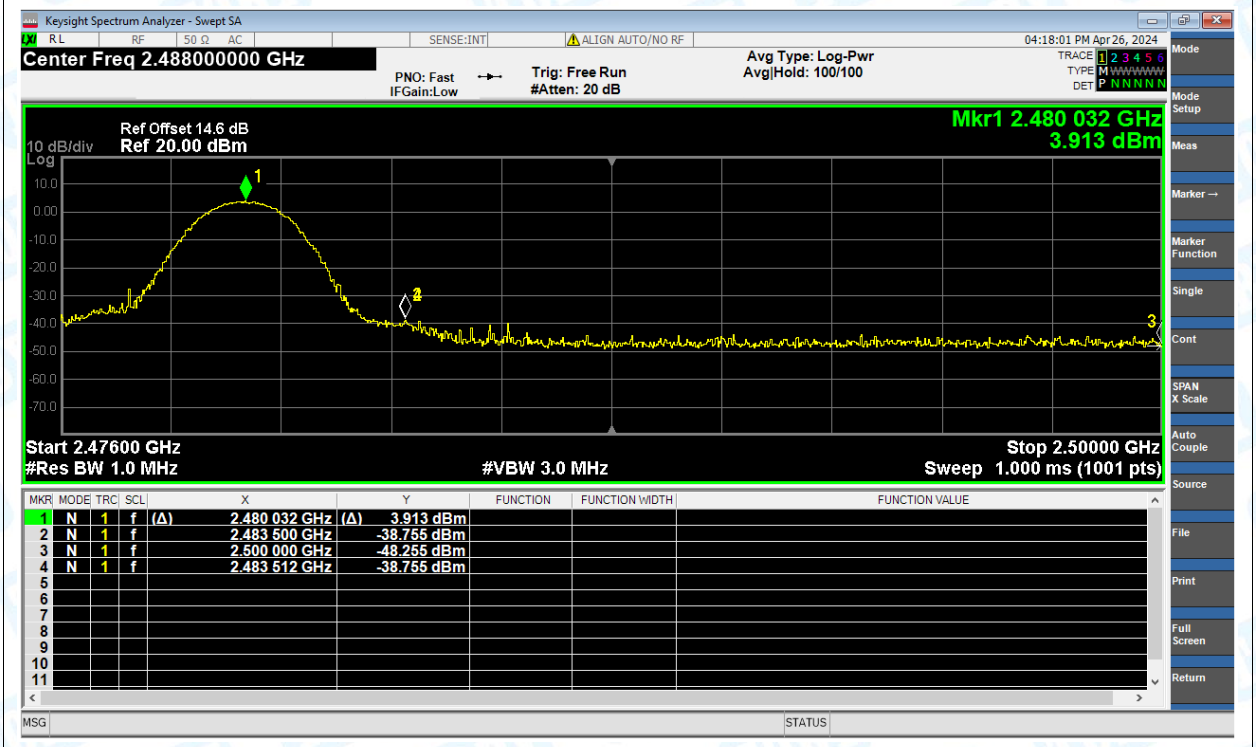
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Peak



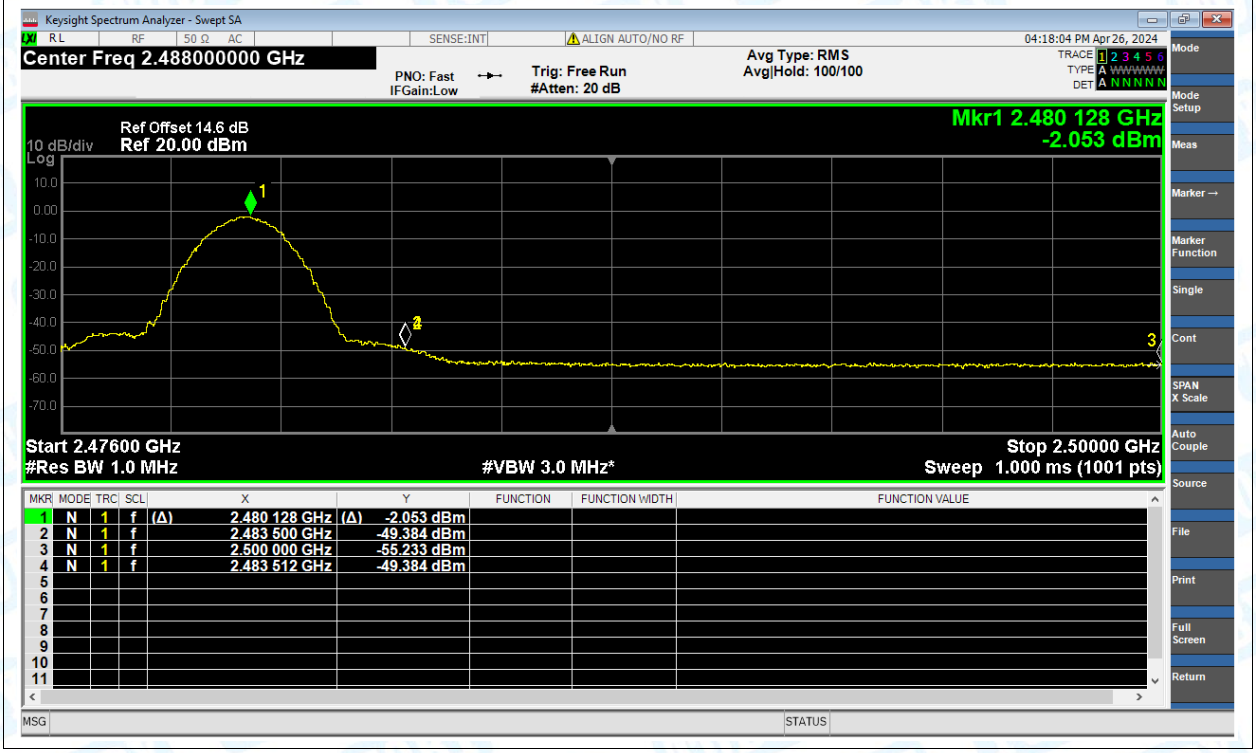
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Average



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



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

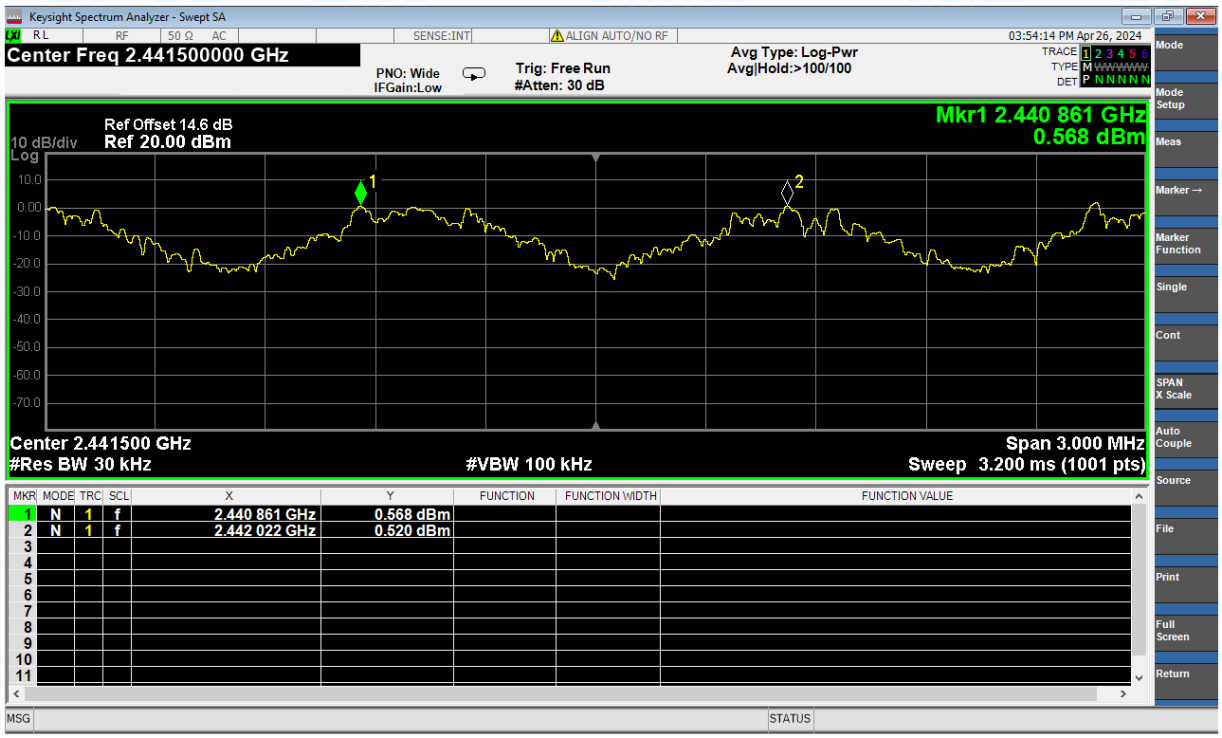


9. Carrier Frequencies Separation

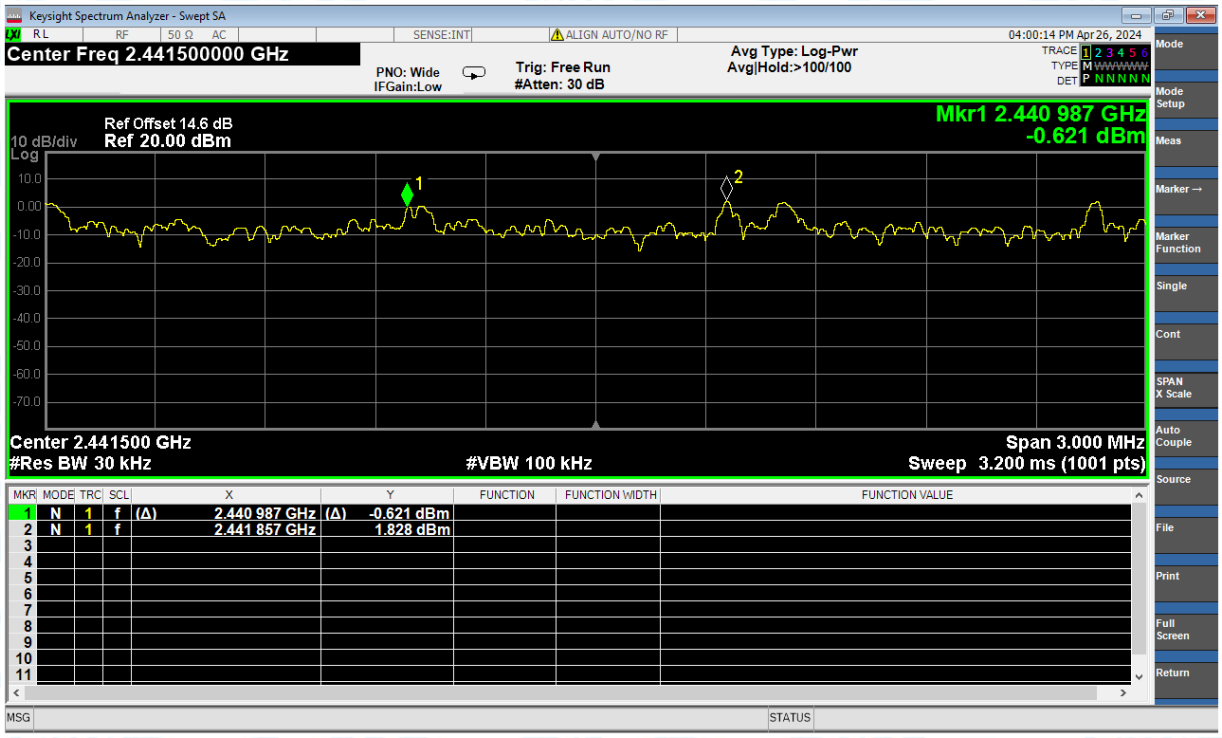
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2440.861	2442.022	1.161	0.025	Pass
NVNT	2-DH1	Ant1	2440.987	2441.857	0.87	0.025	Pass
NVNT	3-DH1	Ant1	2440.861	2442.019	1.158	0.813	Pass

Test Graphs

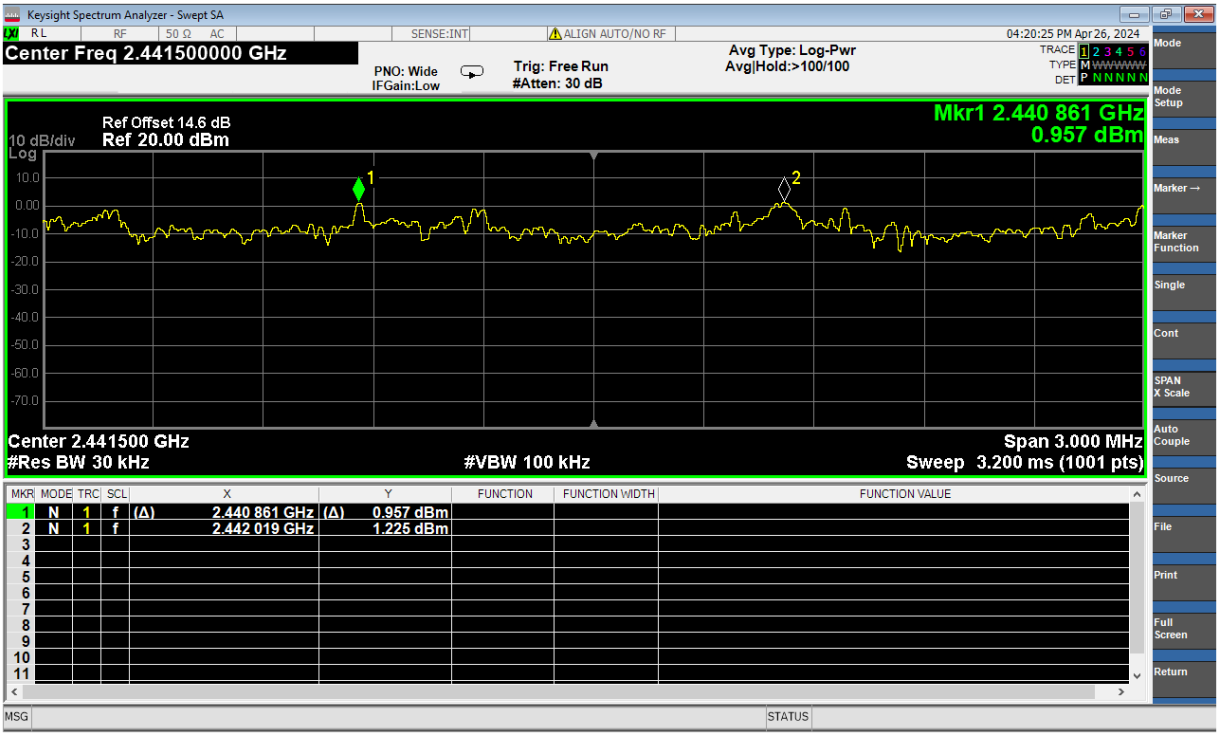
CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1



CFS NVNT 3-DH1 2441MHz Ant1

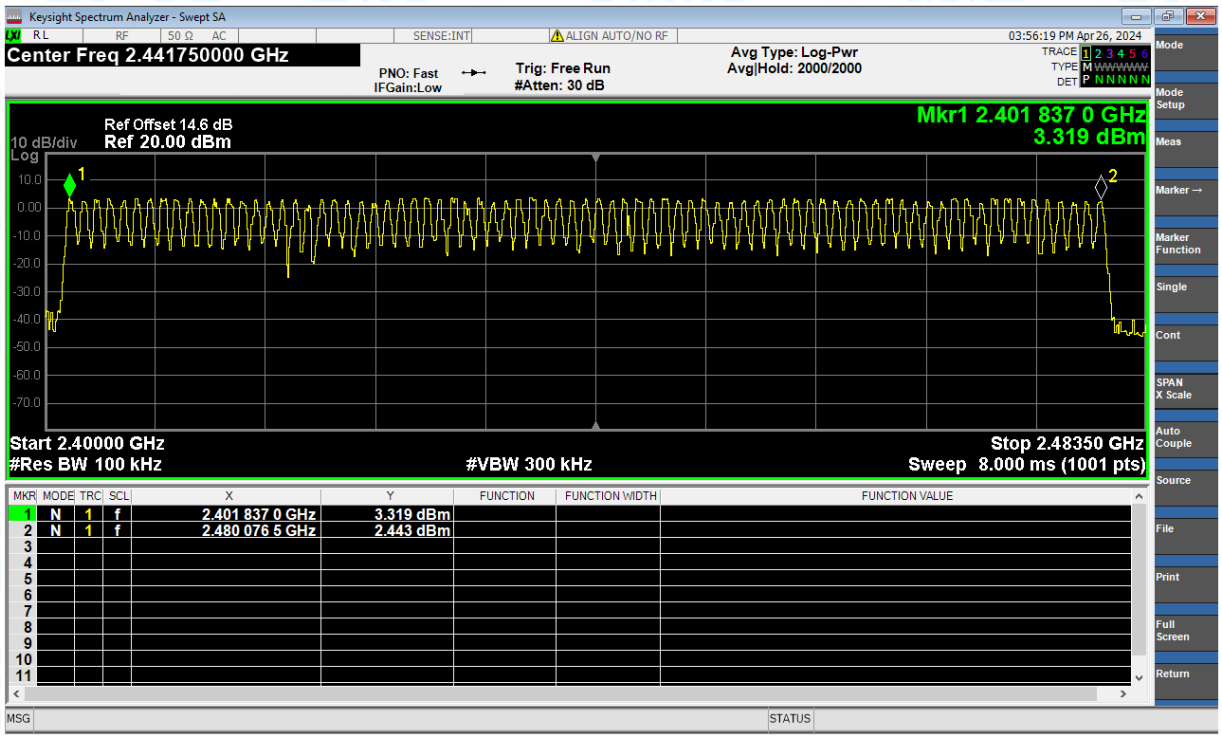


10. Number of Hopping Channel

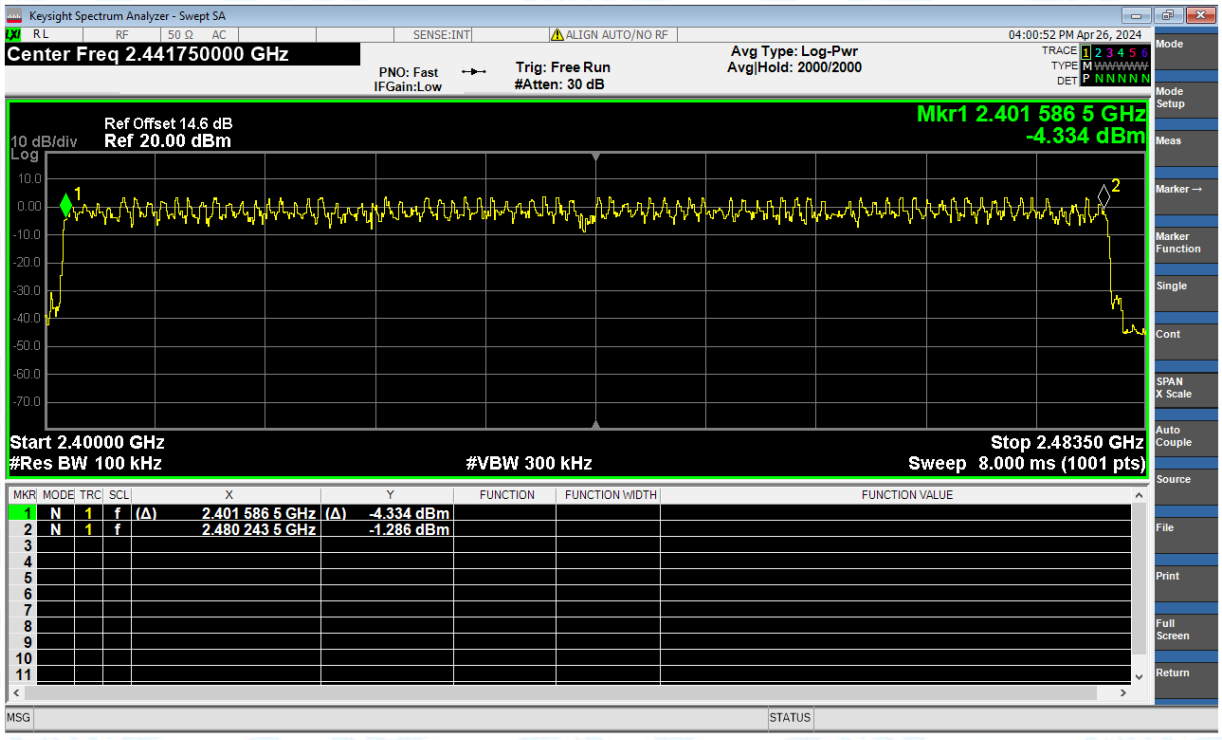
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

Test Graphs

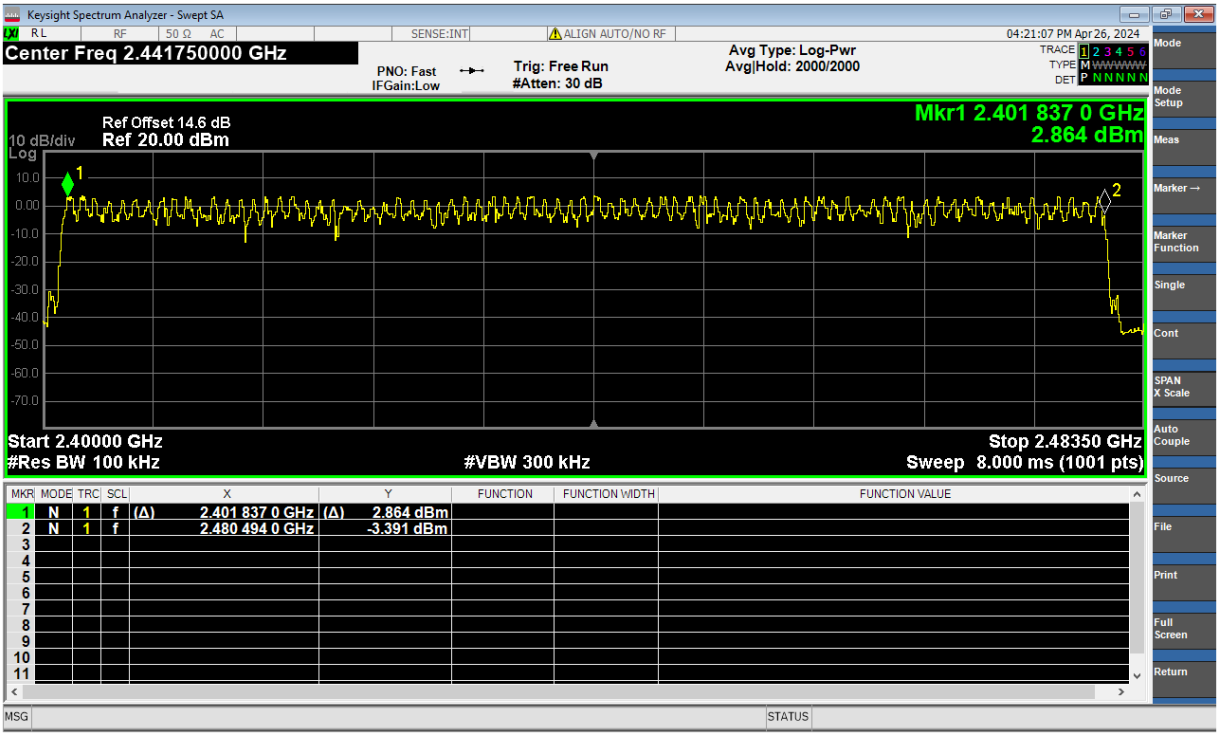
Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1



Hopping No. NVNT 3-DH1 2441MHz Ant1

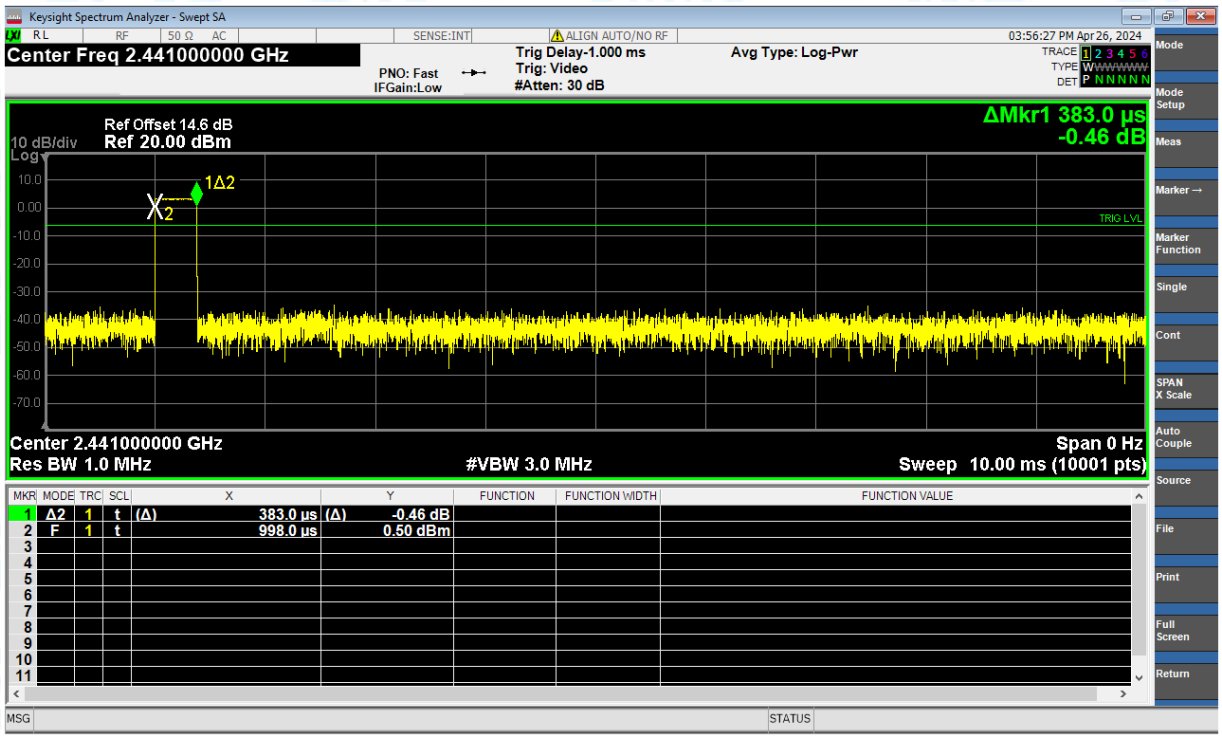


11. Dwell Time

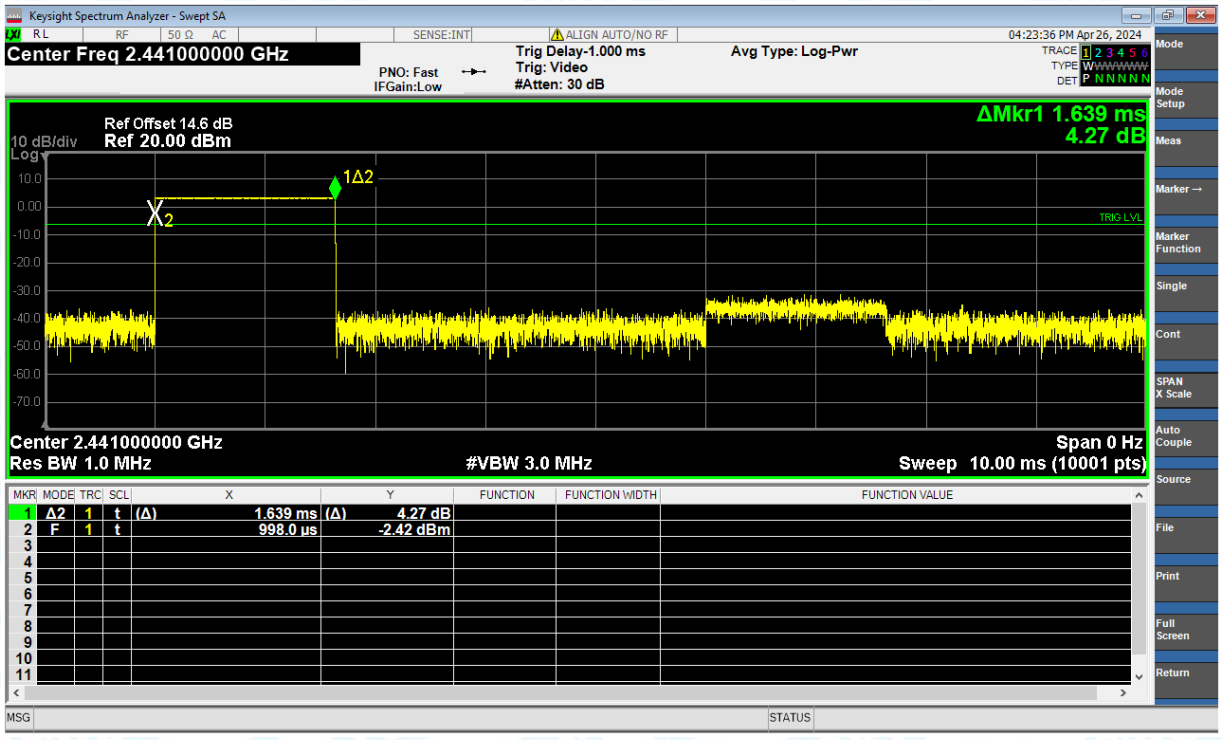
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.383	122.56	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.639	262.24	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.887	307.947	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.392	125.44	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.644	263.04	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.891	308.373	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

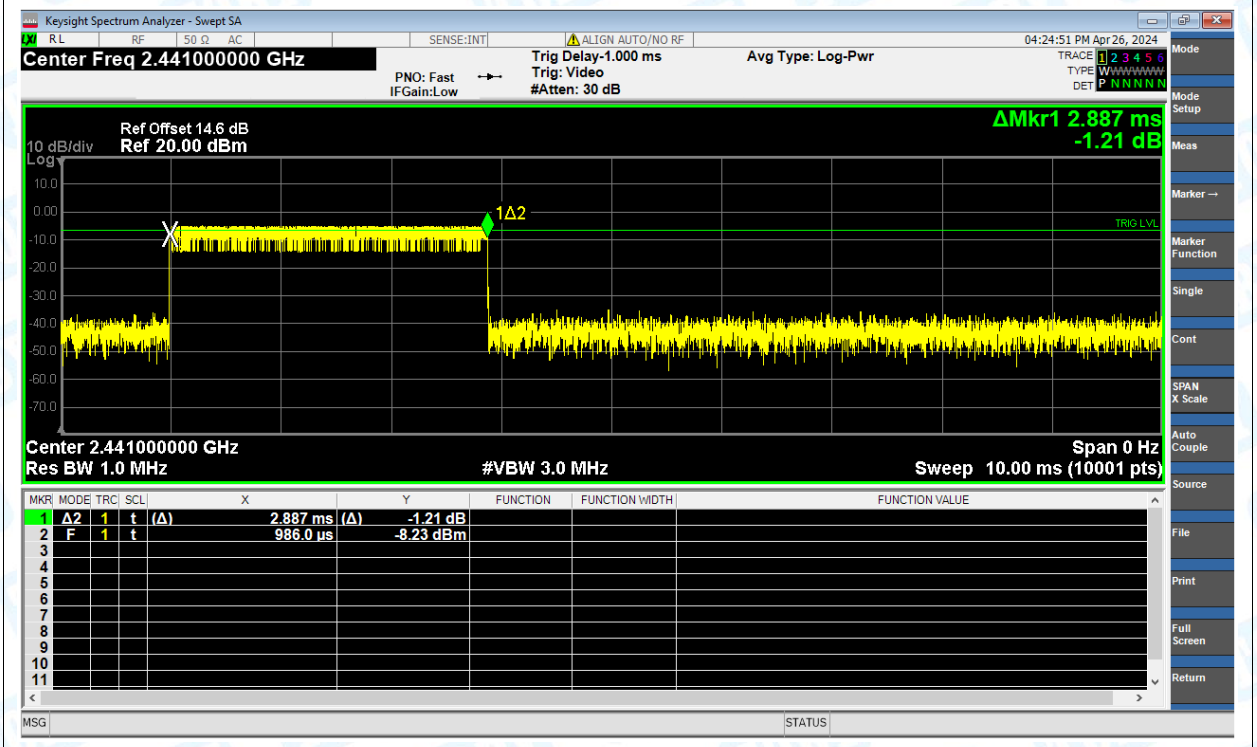
Dwell NVNT 1-DH1 2441MHz Ant1



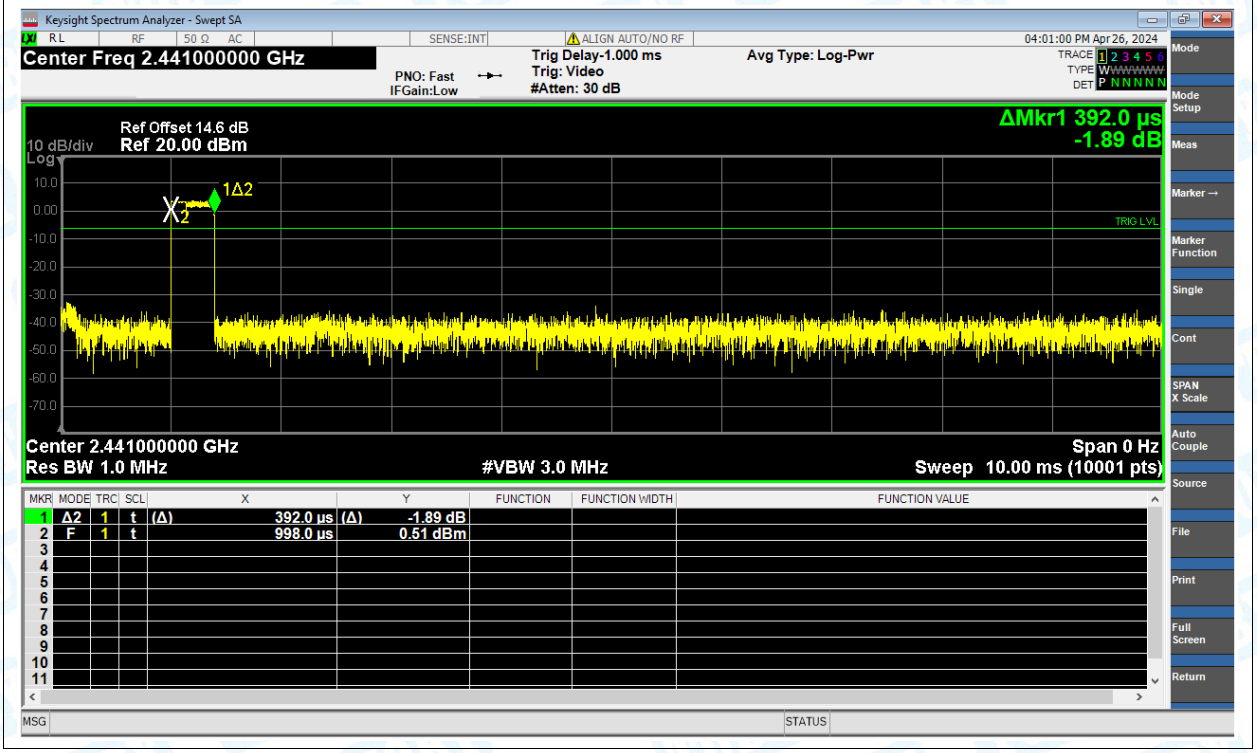
Dwell NVNT 1-DH3 2441MHz Ant1



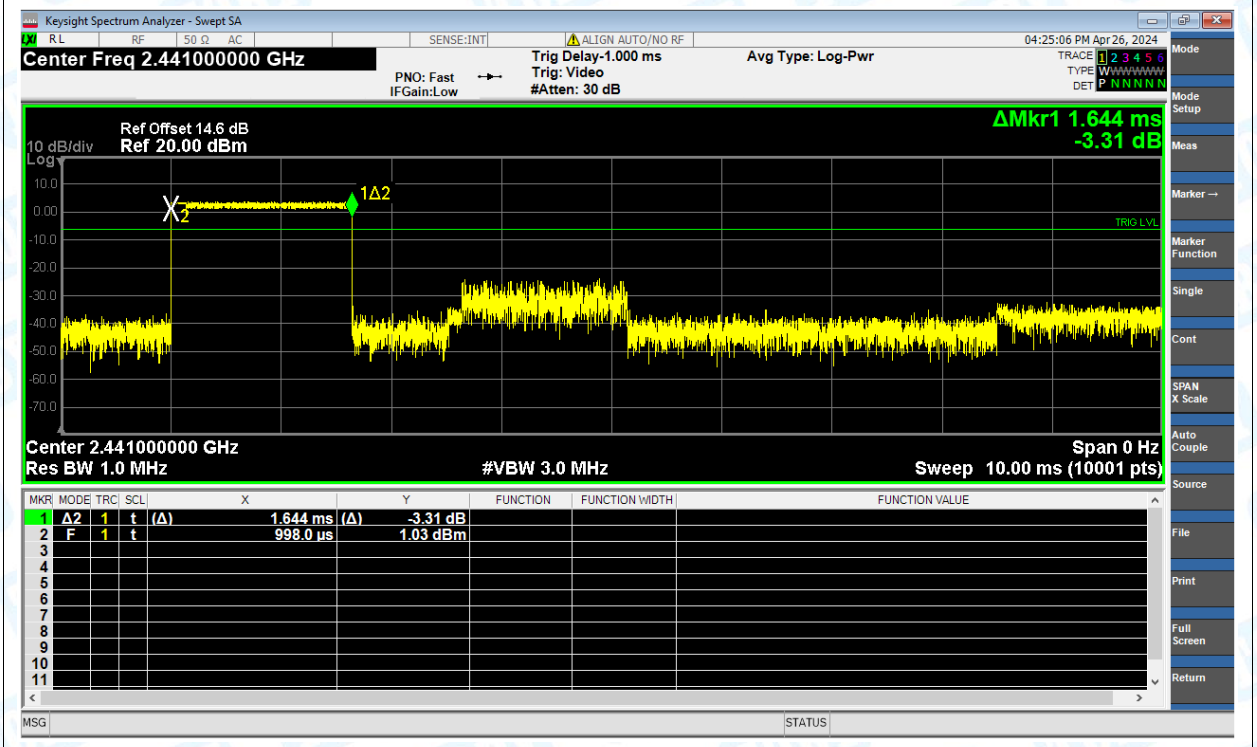
Dwell NVNT 1-DH5 2441MHz Ant1



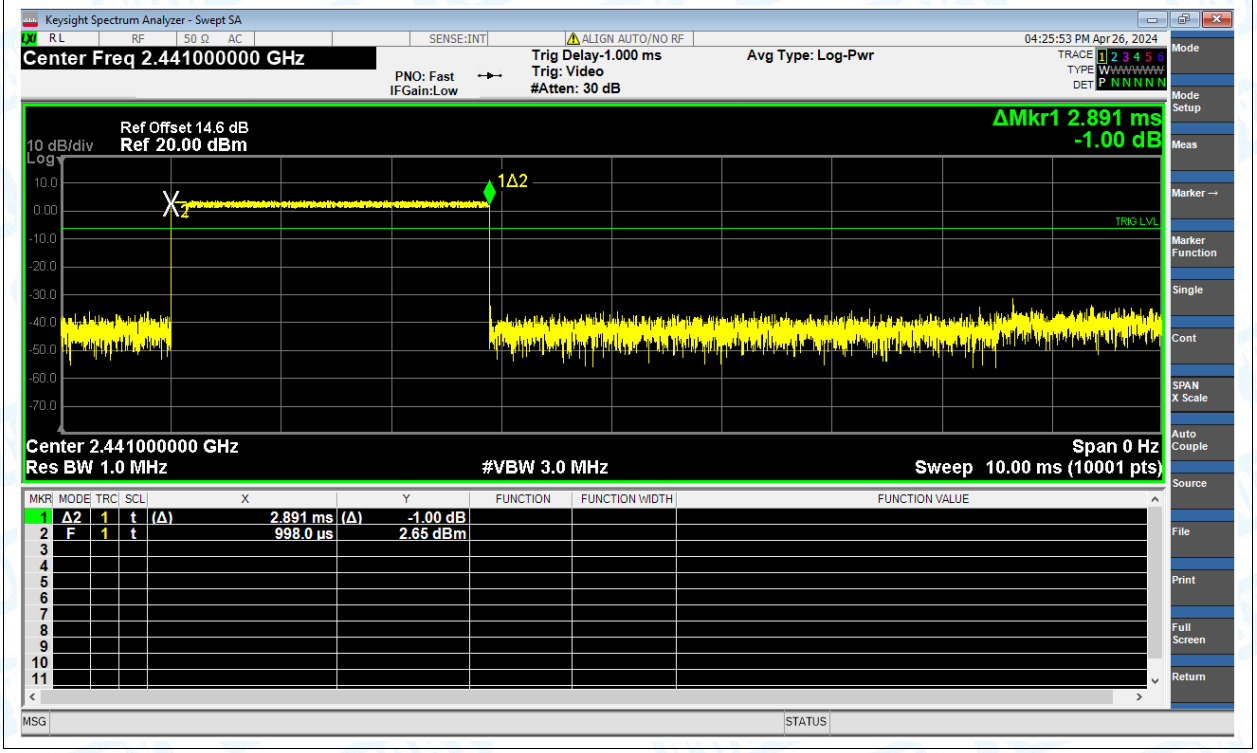
Dwell NVNT 2-DH1 2441MHz Ant1



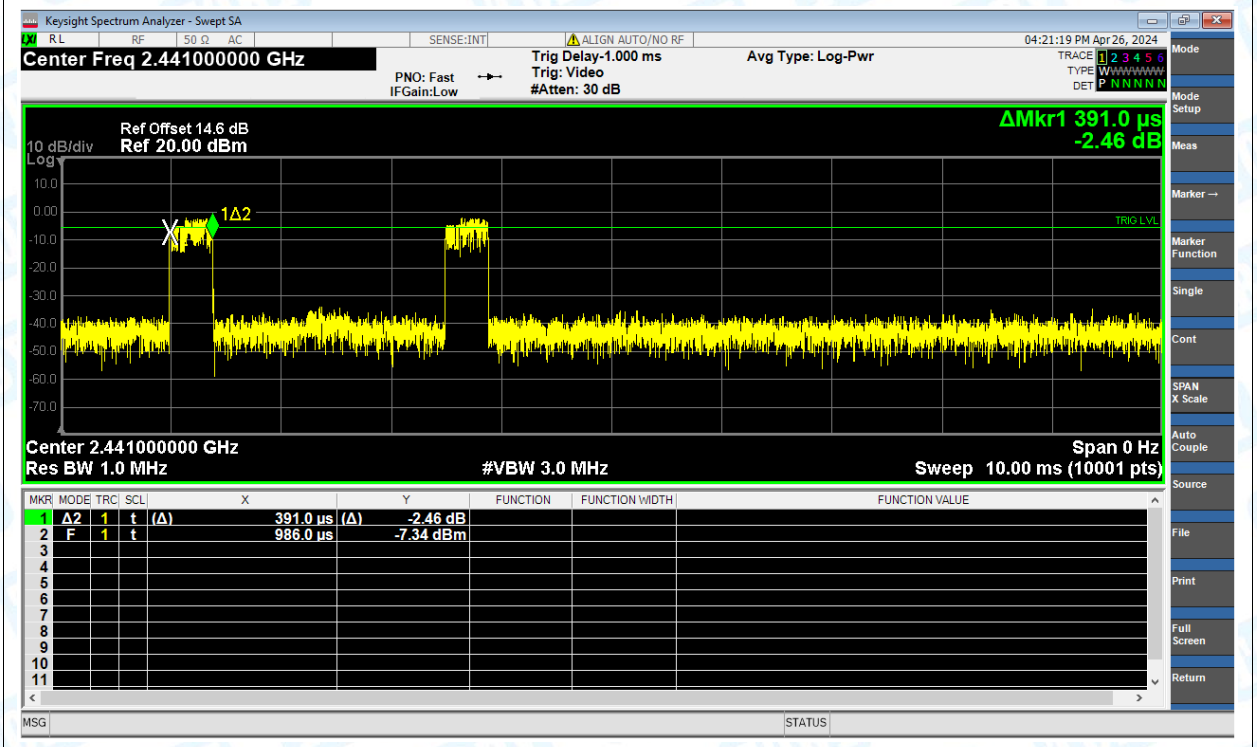
Dwell NVNT 2-DH3 2441MHz Ant1



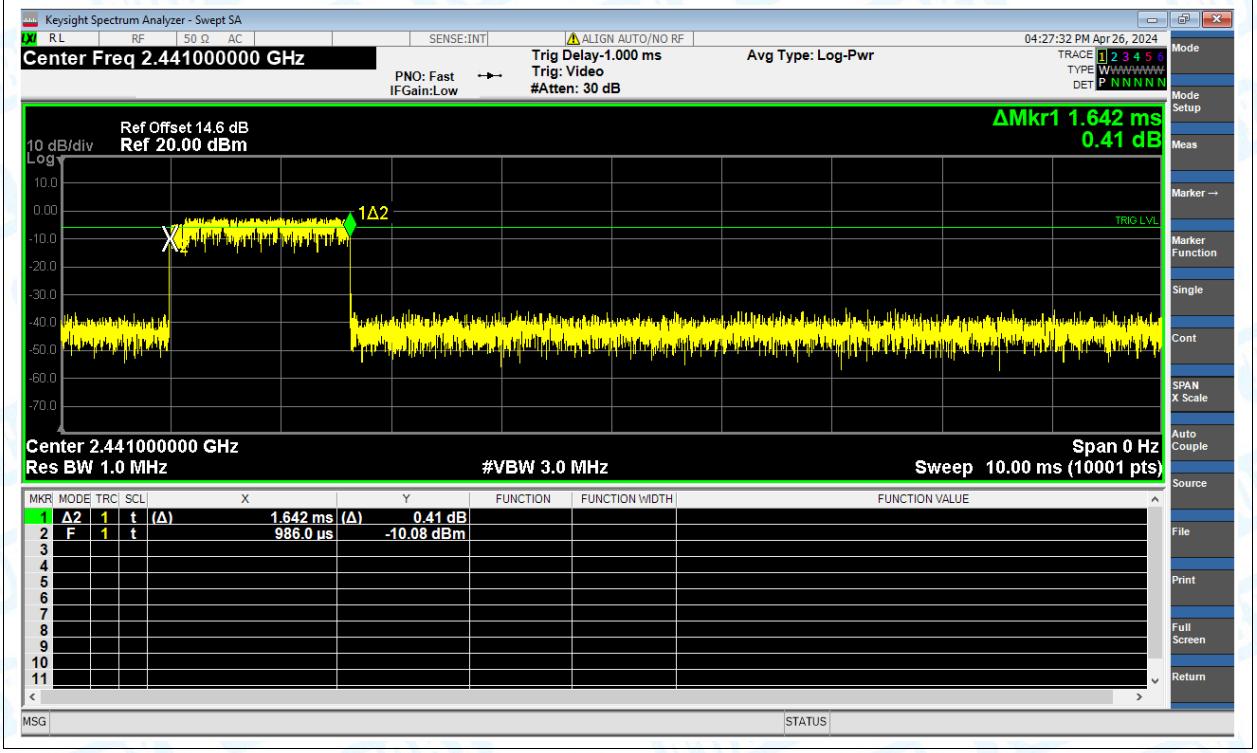
Dwell NVNT 2-DH5 2441MHz Ant1



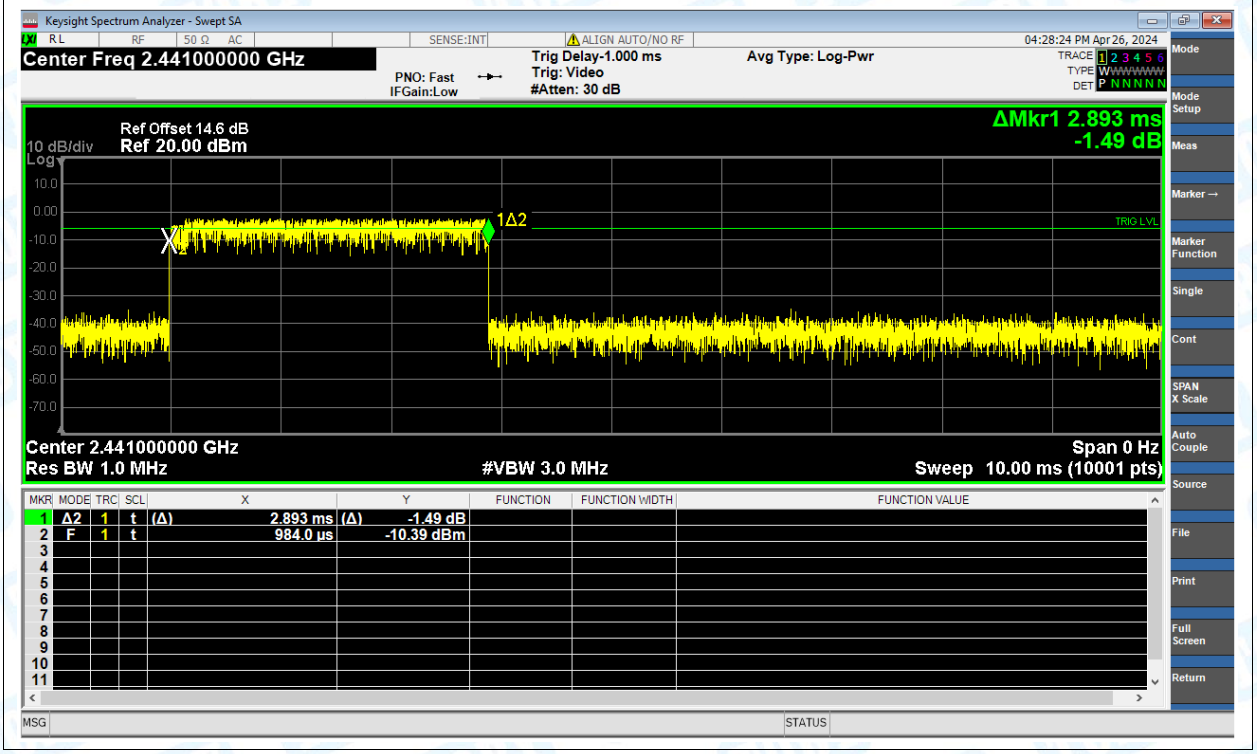
Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1



Dwell NVNT 3-DH5 2441MHz Ant1



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