

RF Test Data for Bluetooth (Conducted Measurements)

General Description of EUT	
Product Name:	Tablet computer
Test Model:	SuiPlay0X1
Sample ID:	HC-C-202504-0153-01-01-2#
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	DC 11.55V
Test Engineer:	Rick. chen
Note: For a more detailed features description, please refer to the report TBR-C-202504-0153-8 The report only show the worst case data.	

Contents

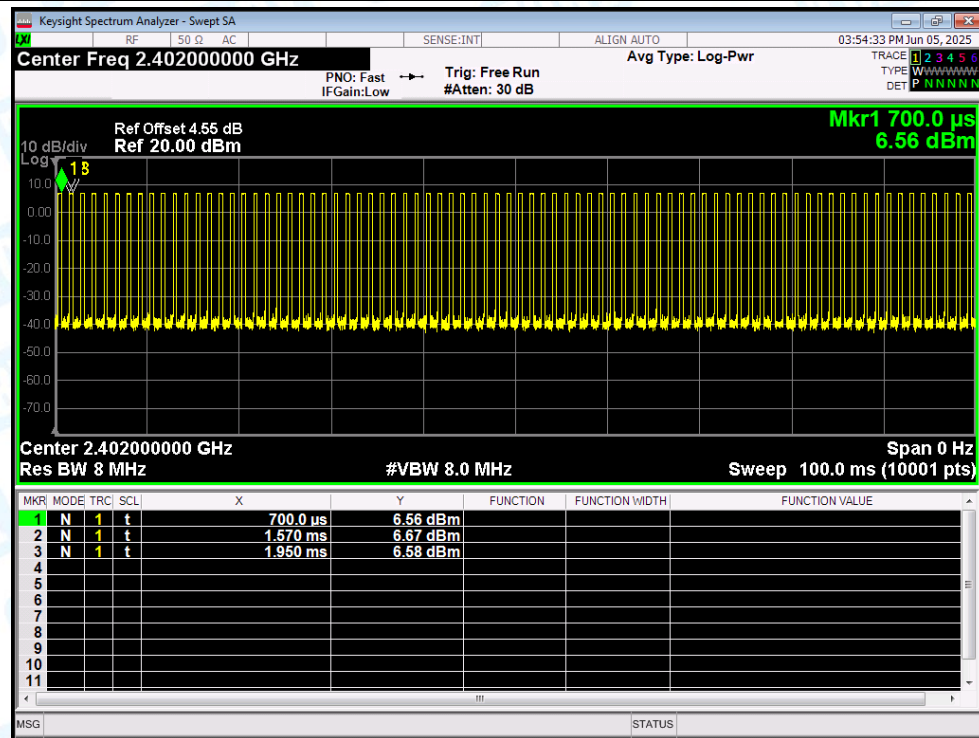
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1. Duty Cycle

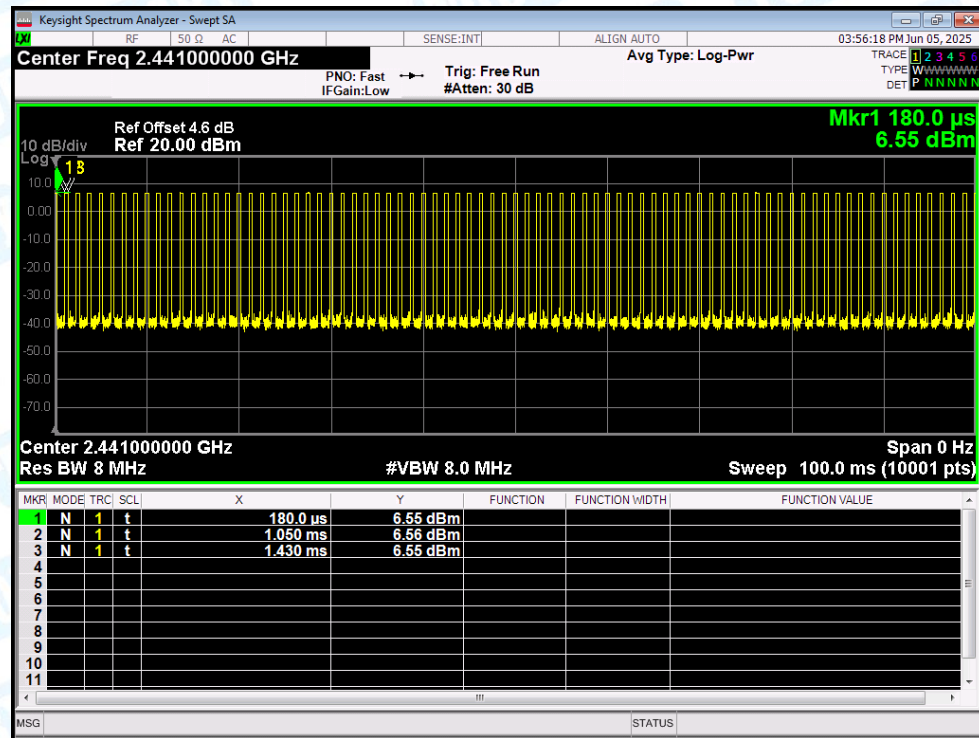
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	30.4	5.17	2.63
NVNT	1-DH1	2441	Ant1	30.4	5.17	2.63
NVNT	1-DH1	2480	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2402	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2441	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2480	Ant1	31.2	5.06	2.56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

Test Graphs

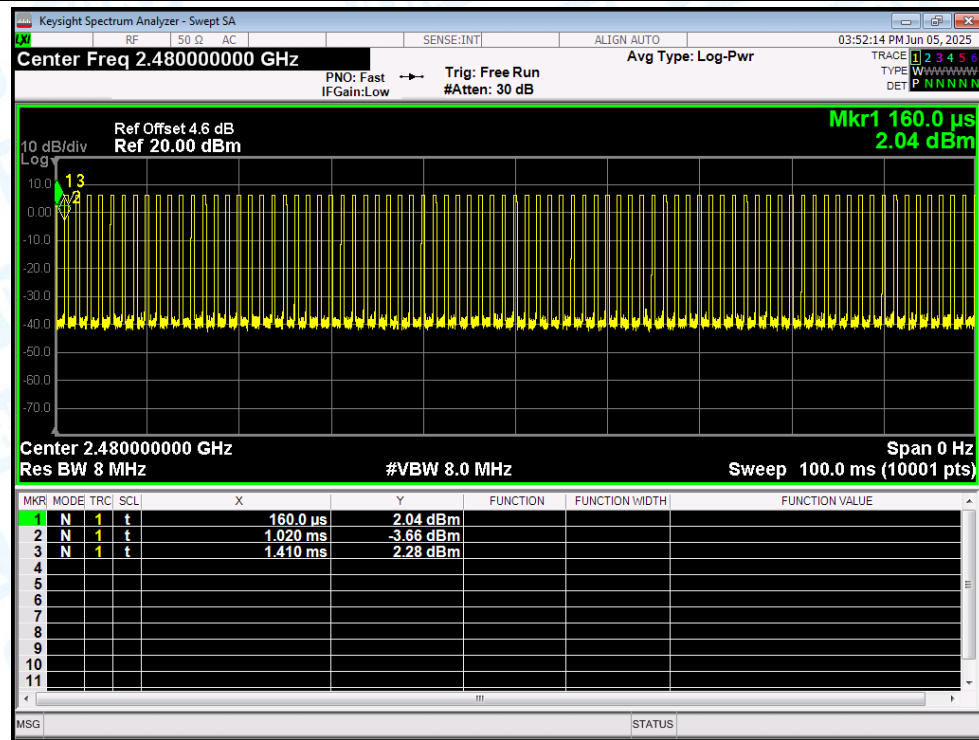
Duty Cycle NVNT 1-DH1 2402MHz Ant1



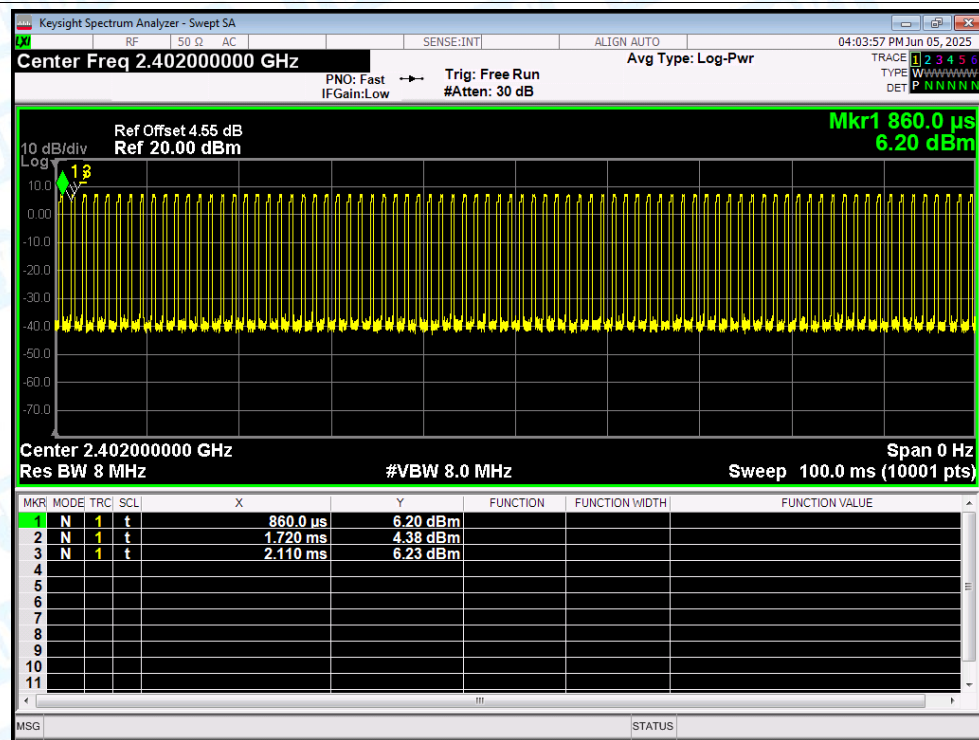
Duty Cycle NVNT 1-DH1 2441MHz Ant1



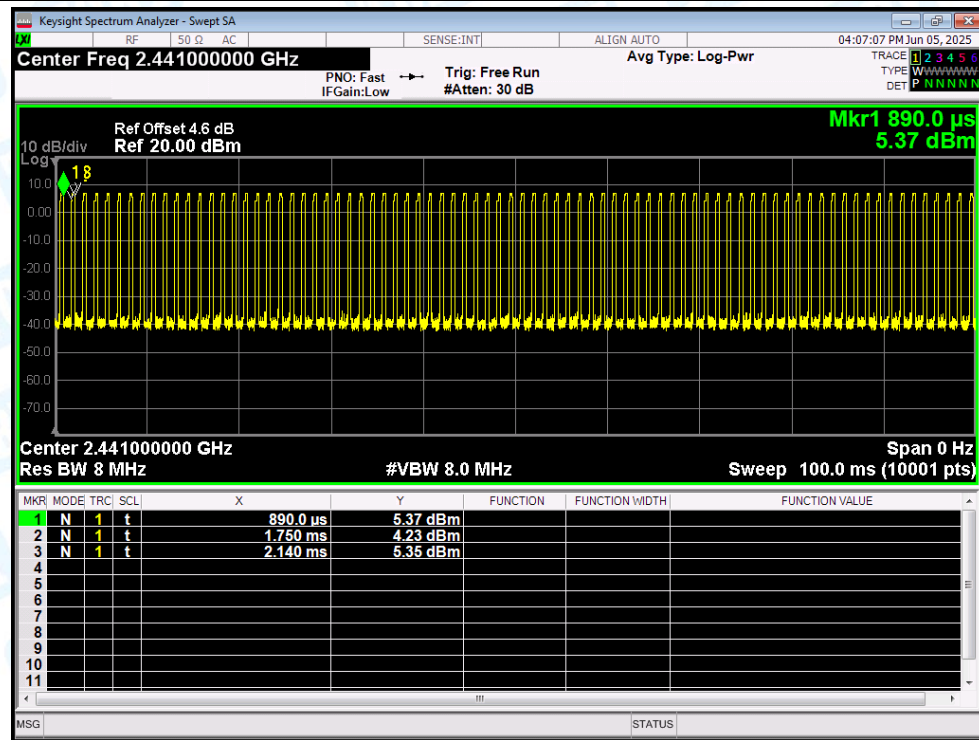
Duty Cycle NVNT 1-DH1 2480MHz Ant1



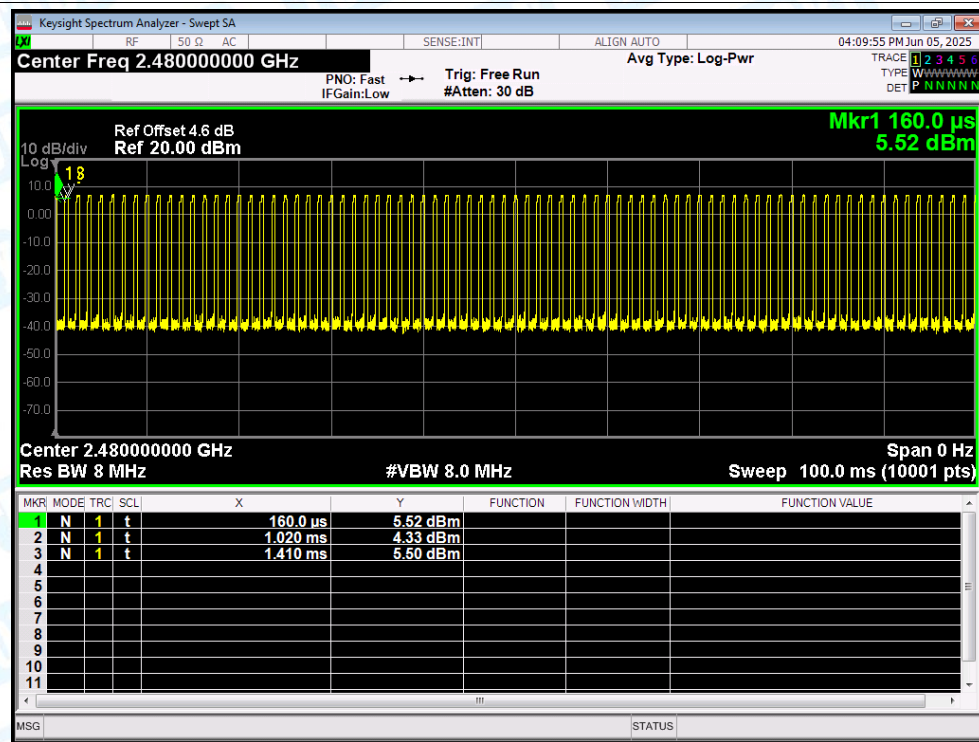
Duty Cycle NVNT 2-DH1 2402MHz Ant1



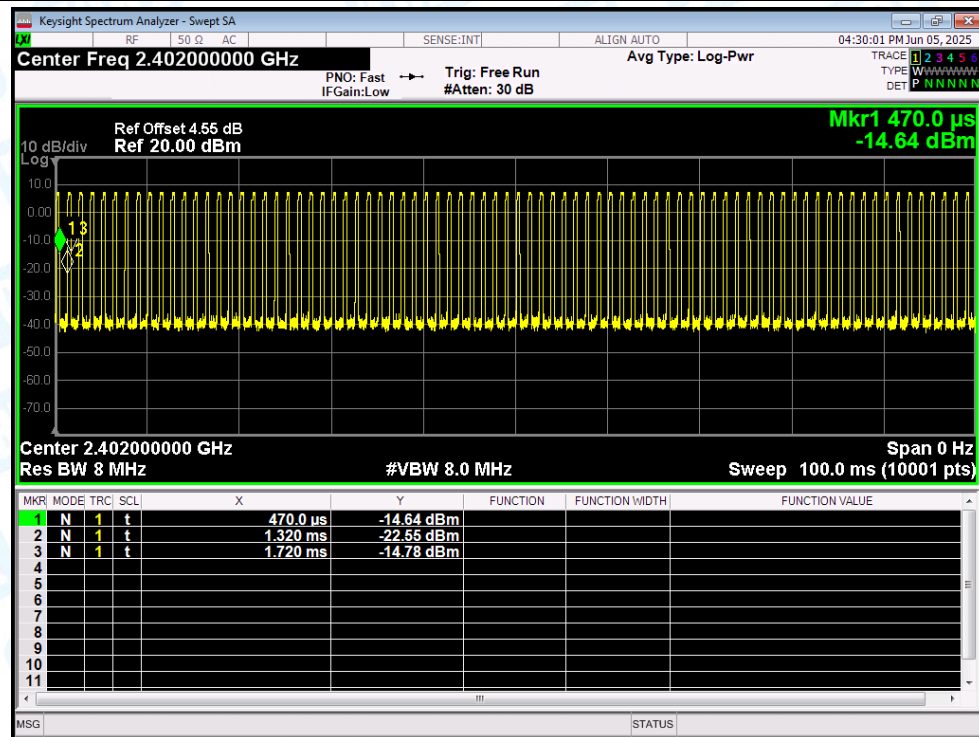
Duty Cycle NVNT 2-DH1 2441MHz Ant1



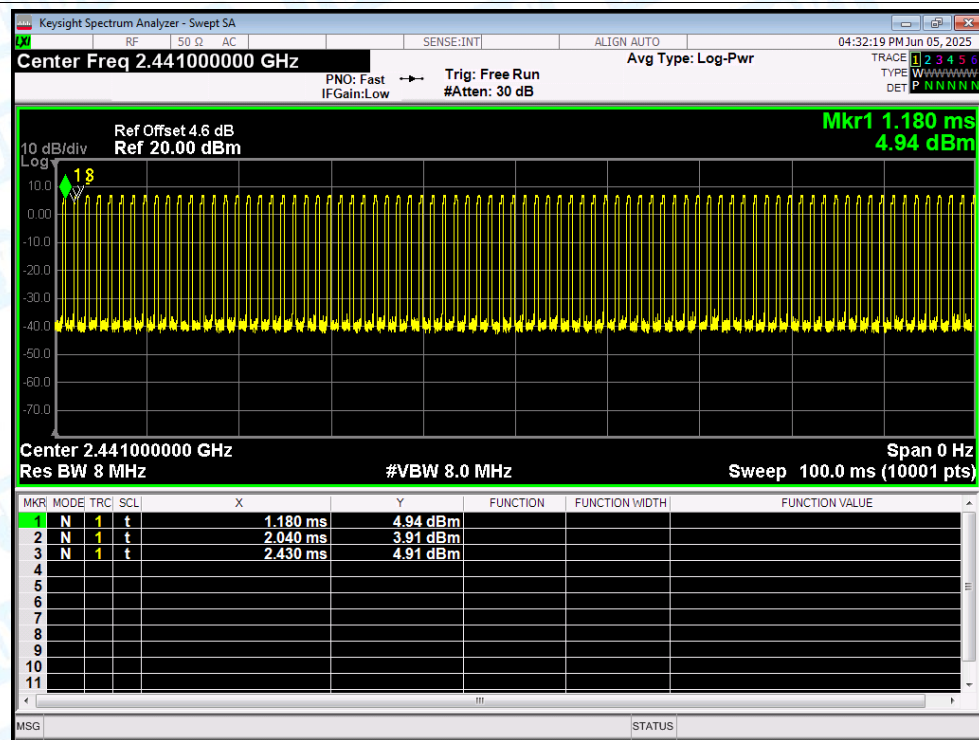
Duty Cycle NVNT 2-DH1 2480MHz Ant1

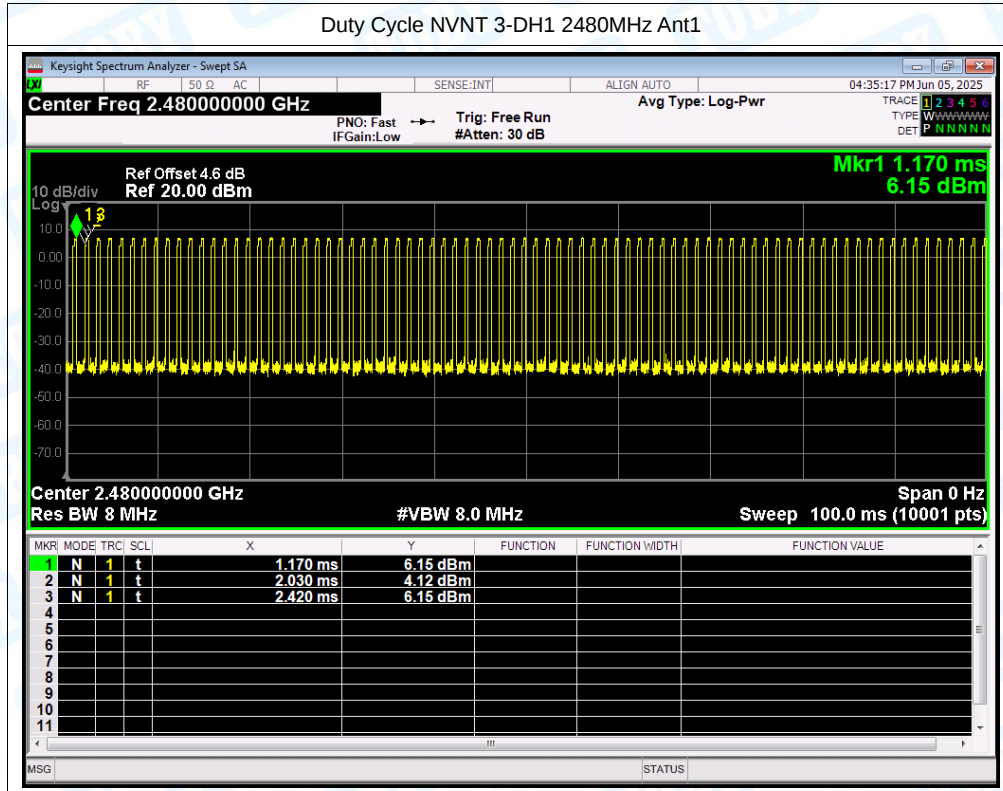


Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1



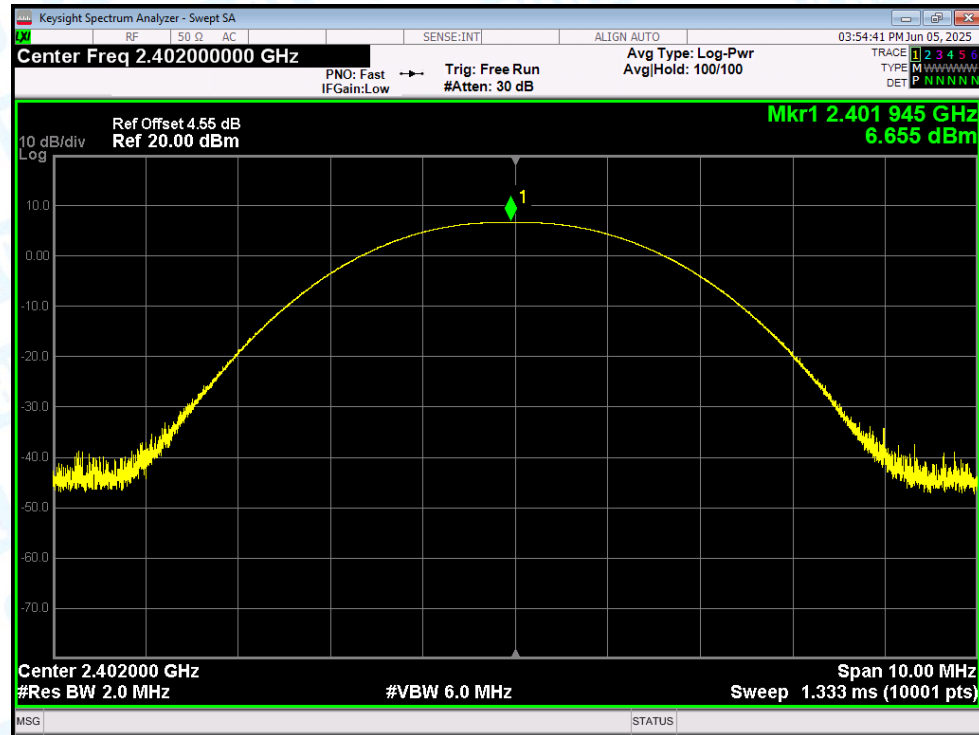


2. Maximum Conducted Output Power

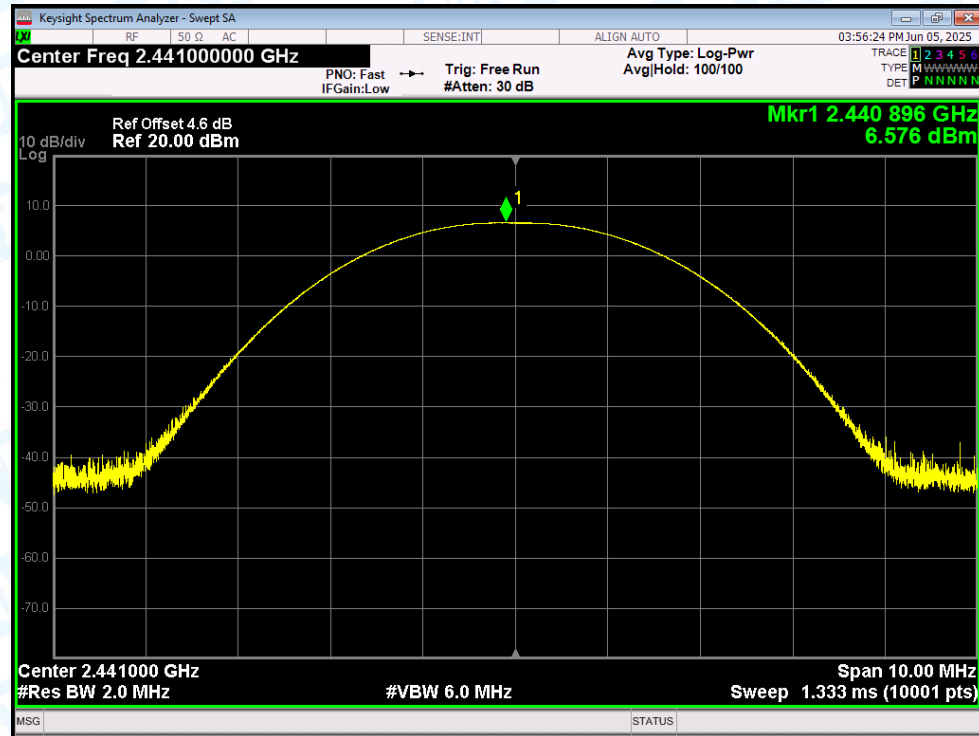
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	6.655	21	Pass
NVNT	1-DH1	2441	Ant1	6.576	21	Pass
NVNT	1-DH1	2480	Ant1	6.331	21	Pass
NVNT	2-DH1	2402	Ant1	6.322	21	Pass
NVNT	2-DH1	2441	Ant1	6.145	21	Pass
NVNT	2-DH1	2480	Ant1	6.296	21	Pass
NVNT	3-DH1	2402	Ant1	6.497	21	Pass
NVNT	3-DH1	2441	Ant1	6.055	21	Pass
NVNT	3-DH1	2480	Ant1	6.23	21	Pass

Test Graphs

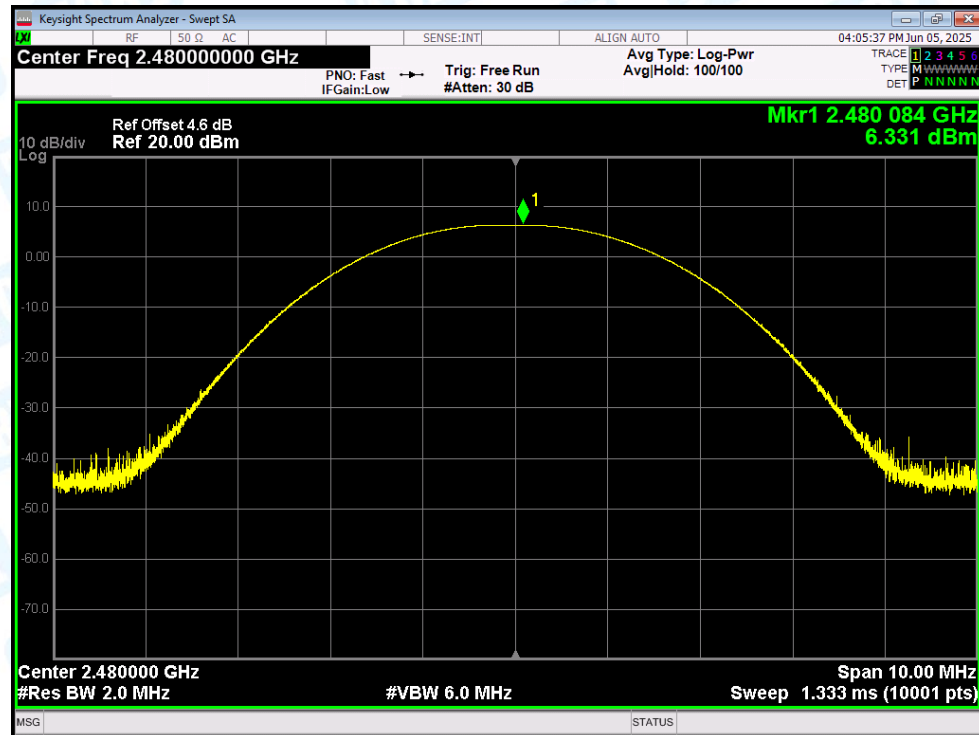
Power NVNT 1-DH1 2402MHz Ant1



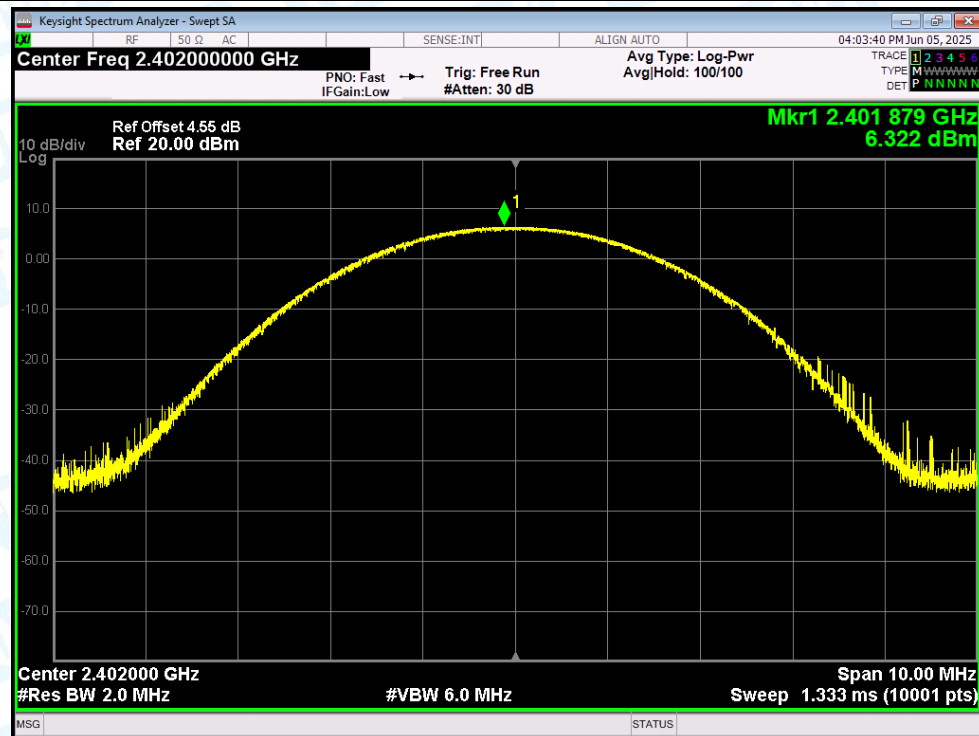
Power NVNT 1-DH1 2441MHz Ant1



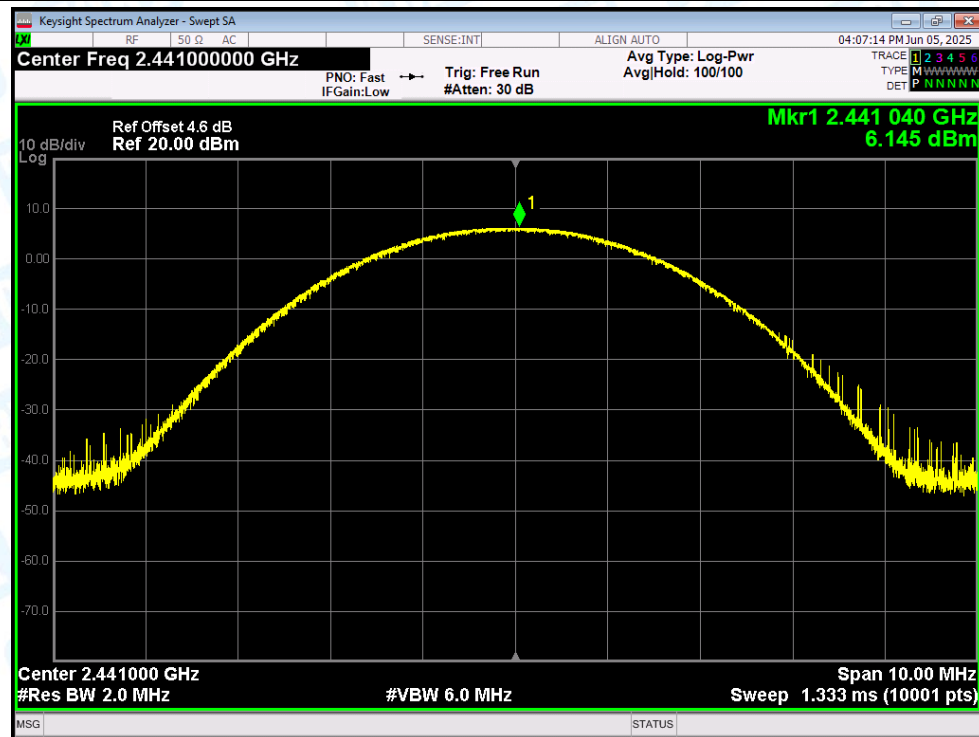
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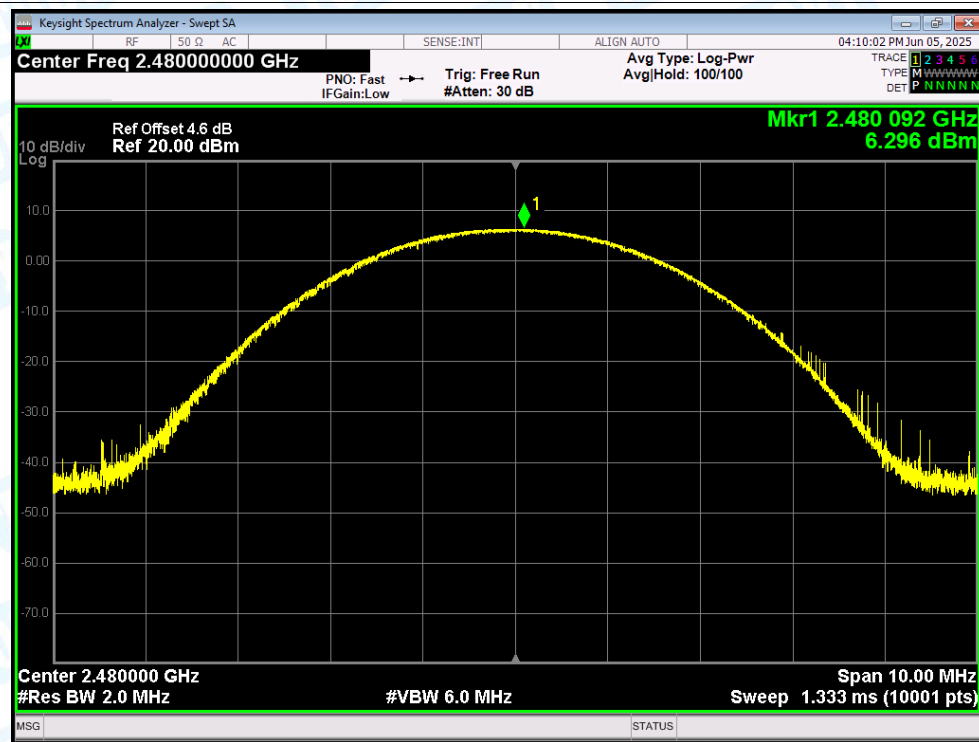
Power NVNT 2-DH1 2402MHz Ant1



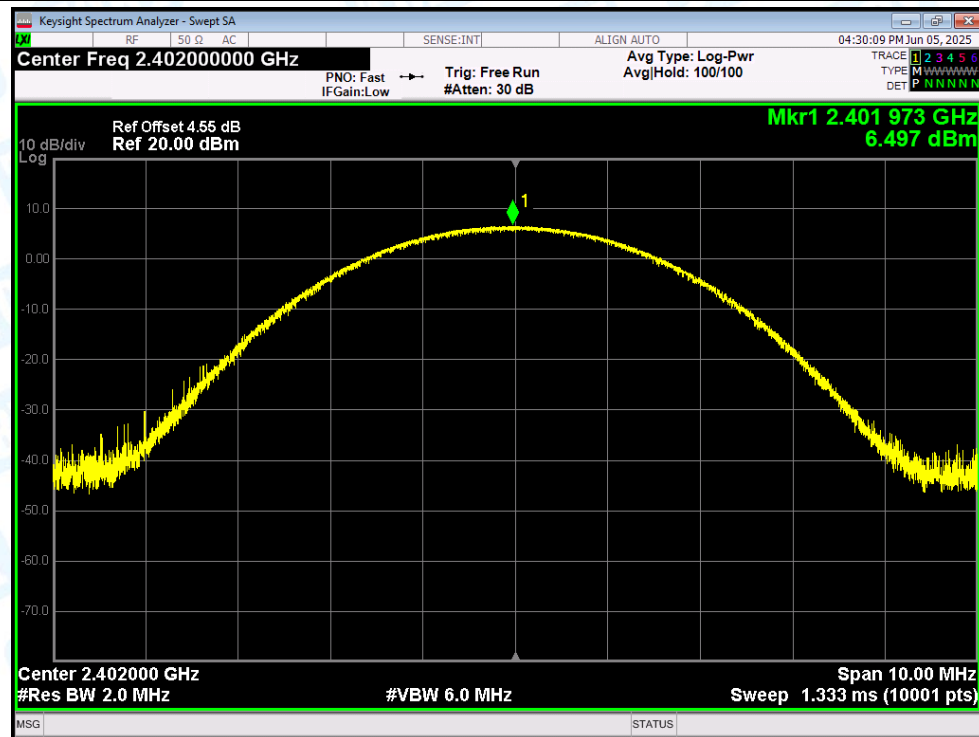
Power NVNT 2-DH1 2441MHz Ant1



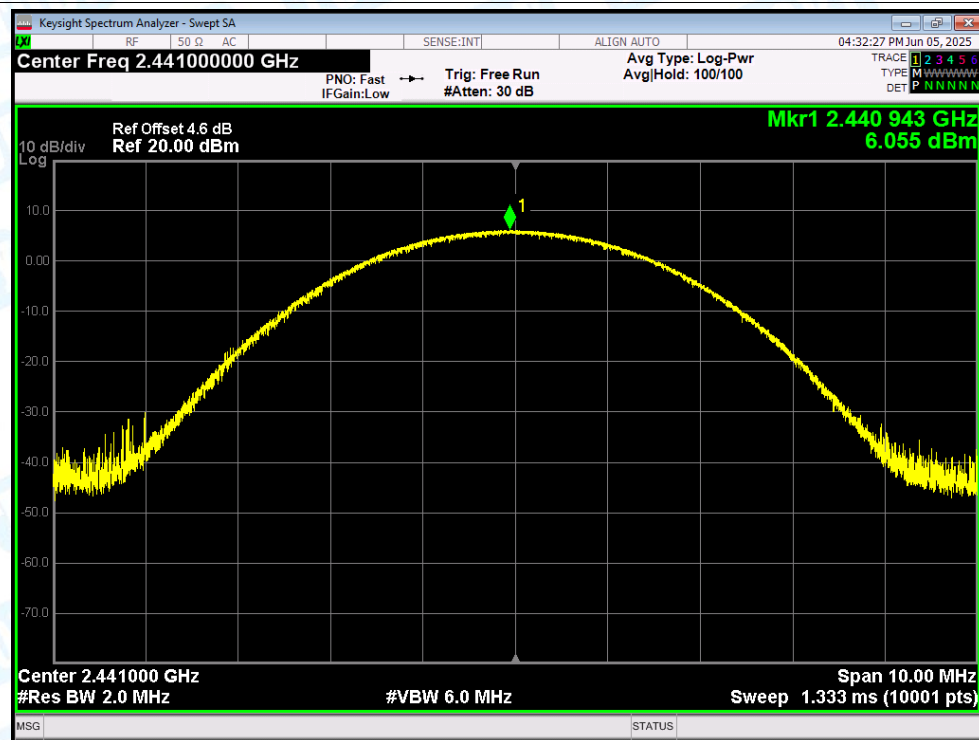
Power NVNT 2-DH1 2480MHz Ant1

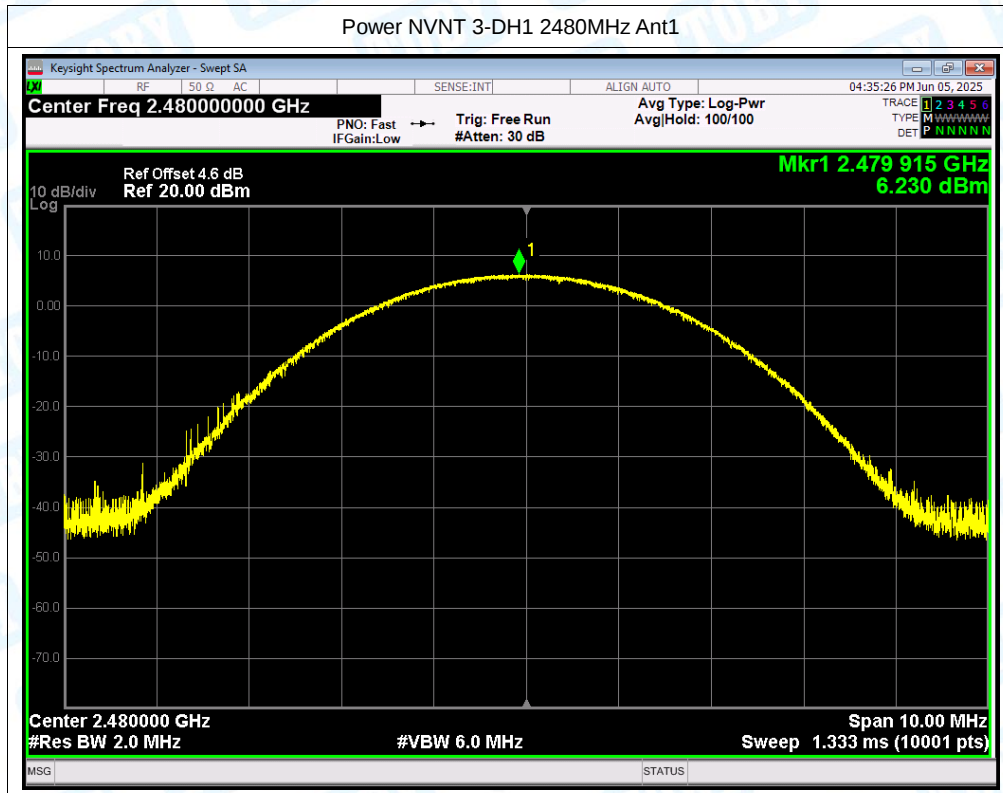


Power NVNT 3-DH1 2402MHz Ant1



Power NVNT 3-DH1 2441MHz Ant1



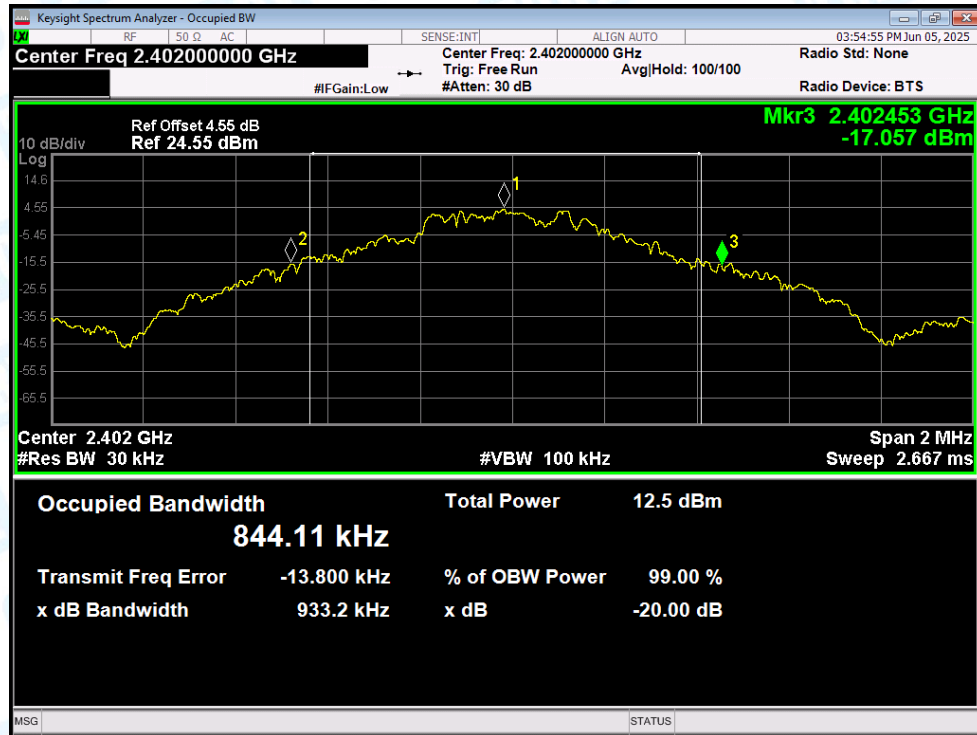


3. -20dB Bandwidth

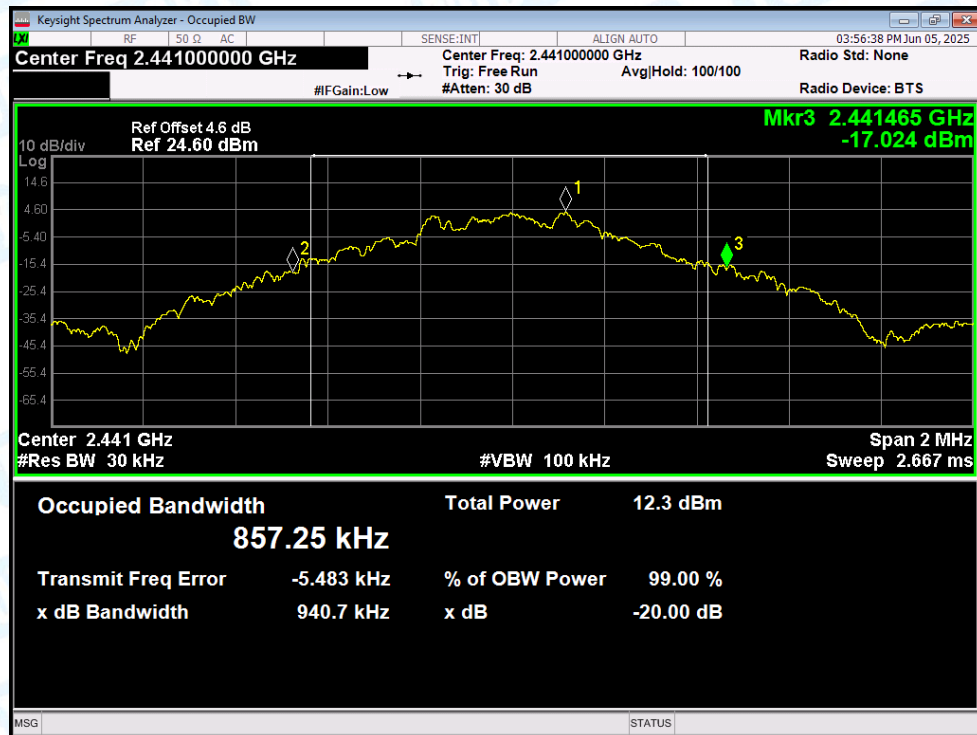
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.93	----	Pass
NVNT	1-DH1	2441	Ant1	0.94	----	Pass
NVNT	1-DH1	2480	Ant1	0.95	----	Pass
NVNT	2-DH1	2402	Ant1	1.43	----	Pass
NVNT	2-DH1	2441	Ant1	1.44	----	Pass
NVNT	2-DH1	2480	Ant1	1.45	----	Pass
NVNT	3-DH1	2402	Ant1	1.43	----	Pass
NVNT	3-DH1	2441	Ant1	1.45	----	Pass
NVNT	3-DH1	2480	Ant1	1.48	----	Pass

Test Graphs

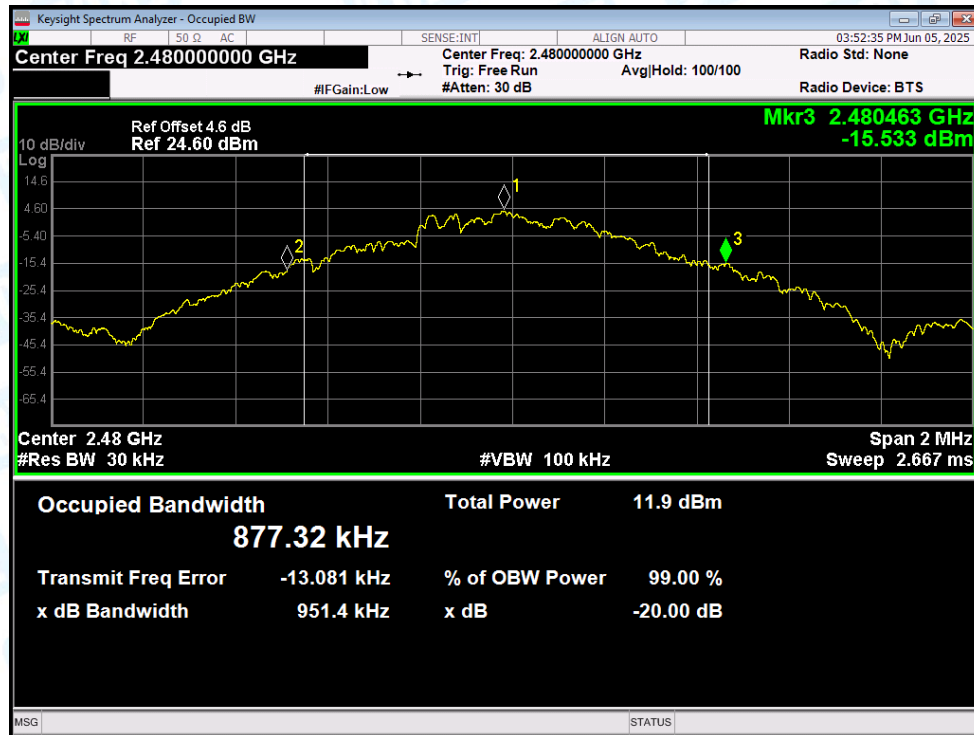
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



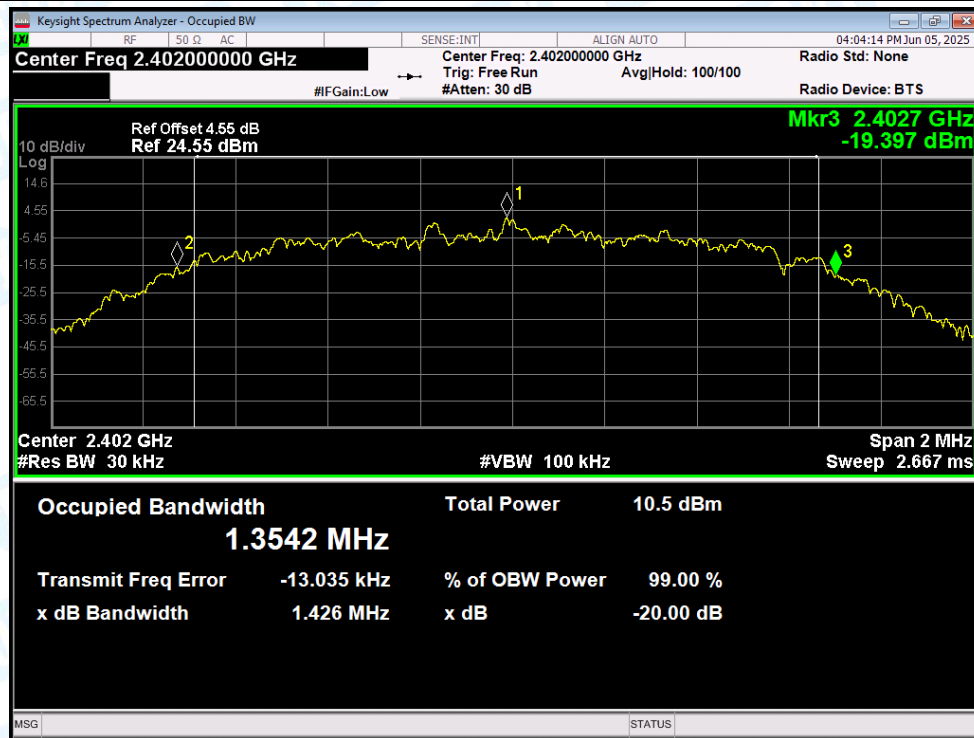
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



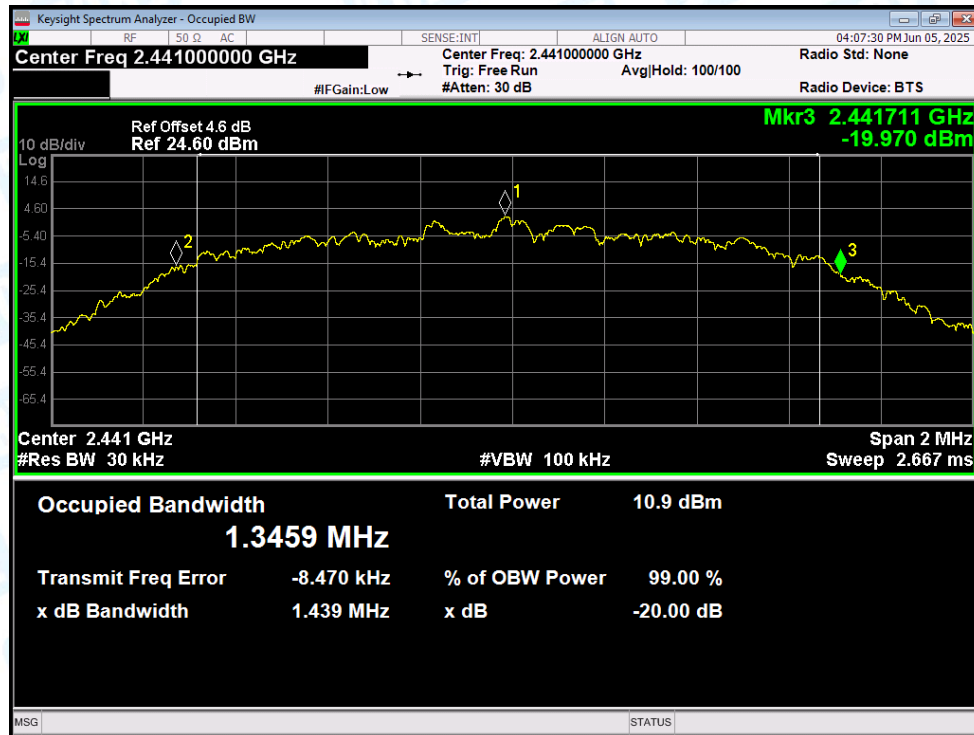
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



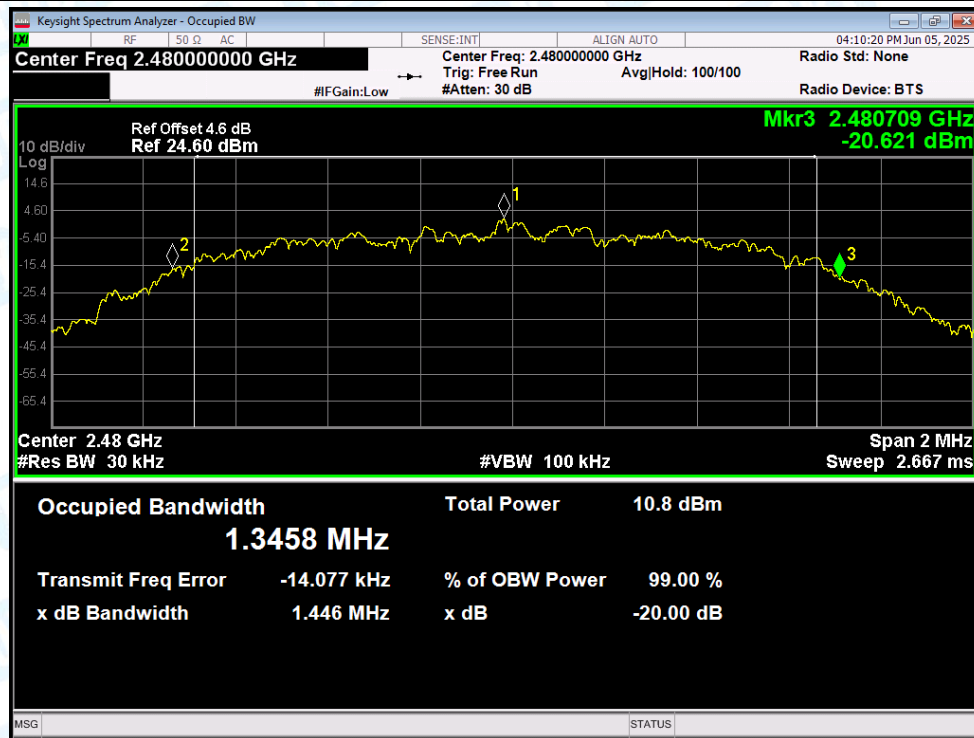
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



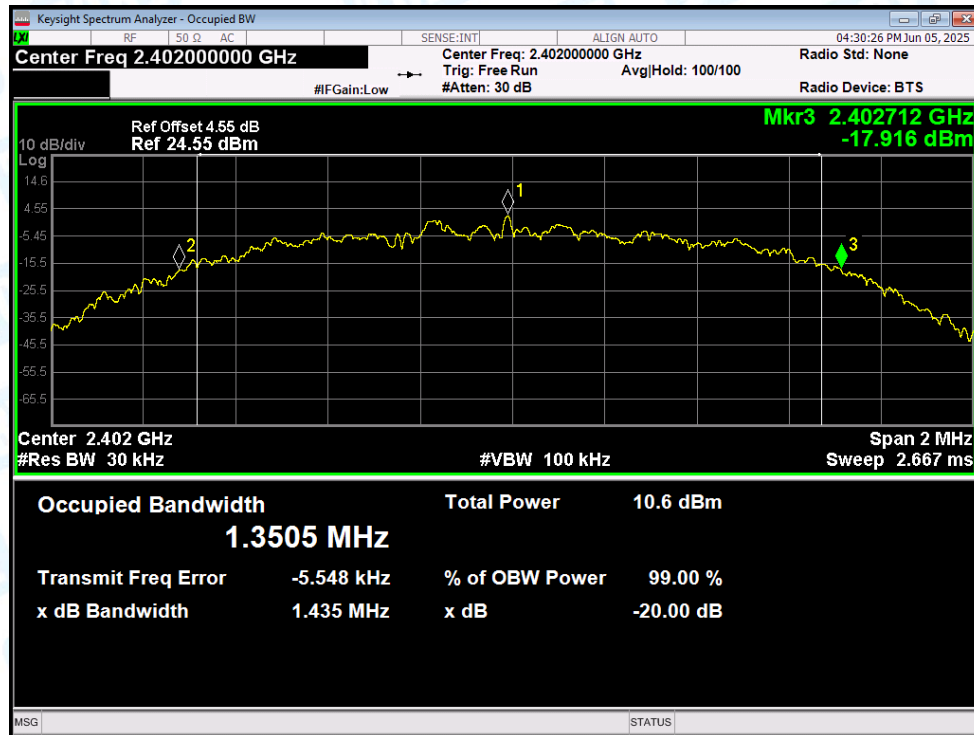
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



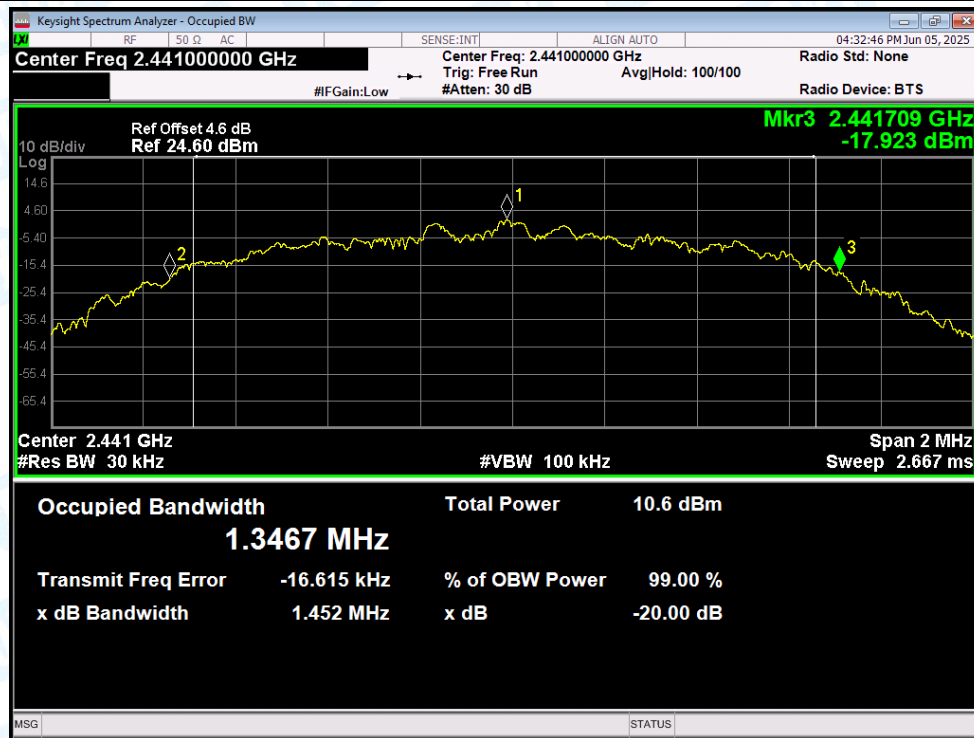
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

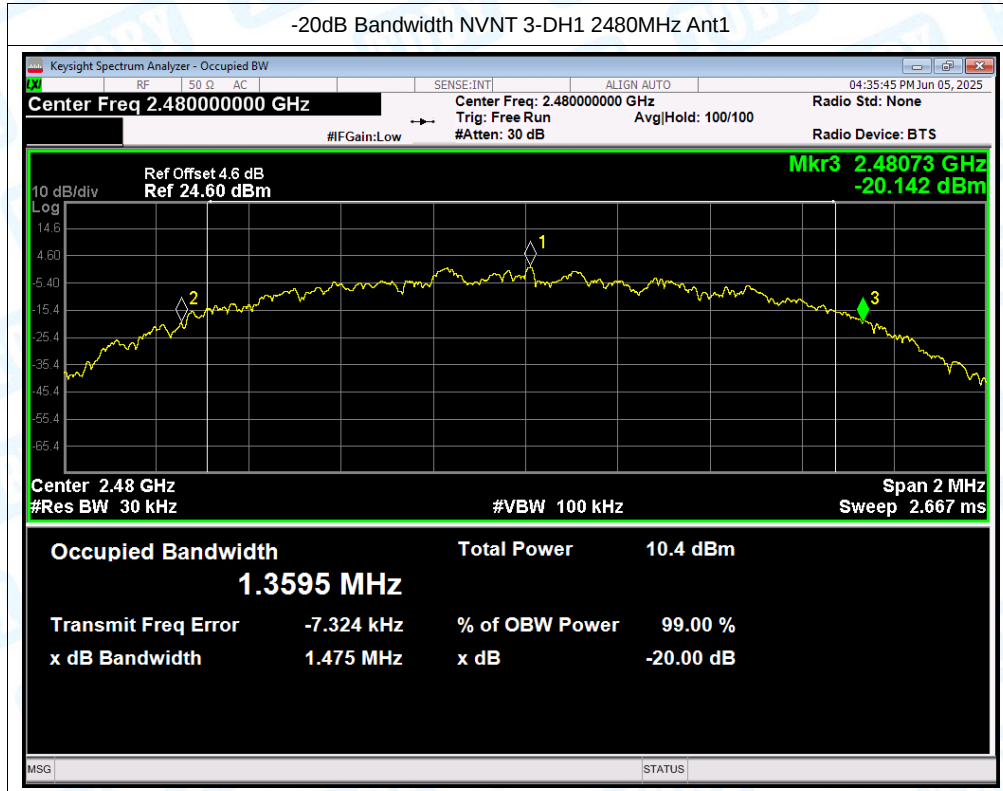


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



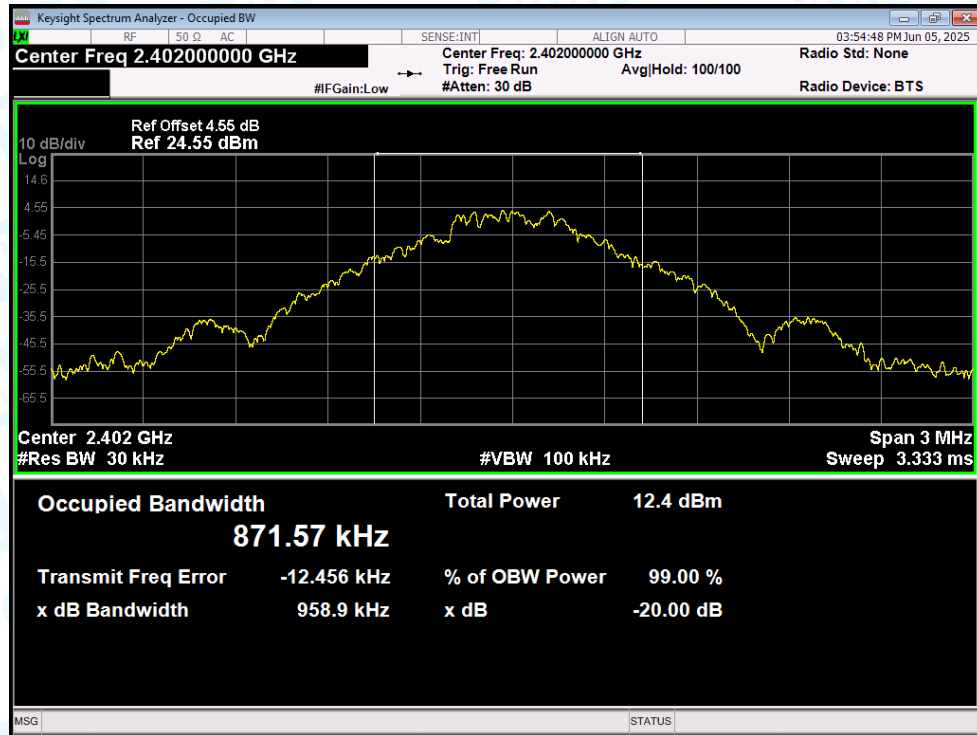


4. Occupied Channel Bandwidth

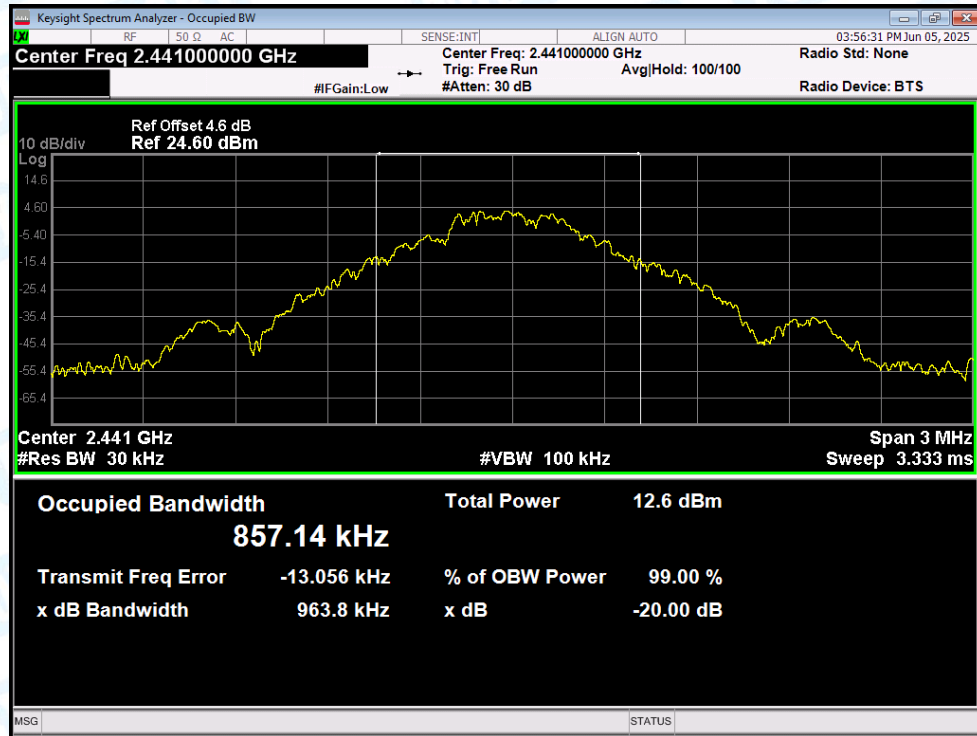
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.872
NVNT	1-DH1	2441	Ant1	0.857
NVNT	1-DH1	2480	Ant1	0.854
NVNT	2-DH1	2402	Ant1	1.342
NVNT	2-DH1	2441	Ant1	1.343
NVNT	2-DH1	2480	Ant1	1.354
NVNT	3-DH1	2402	Ant1	1.348
NVNT	3-DH1	2441	Ant1	1.351
NVNT	3-DH1	2480	Ant1	1.363

Test Graphs

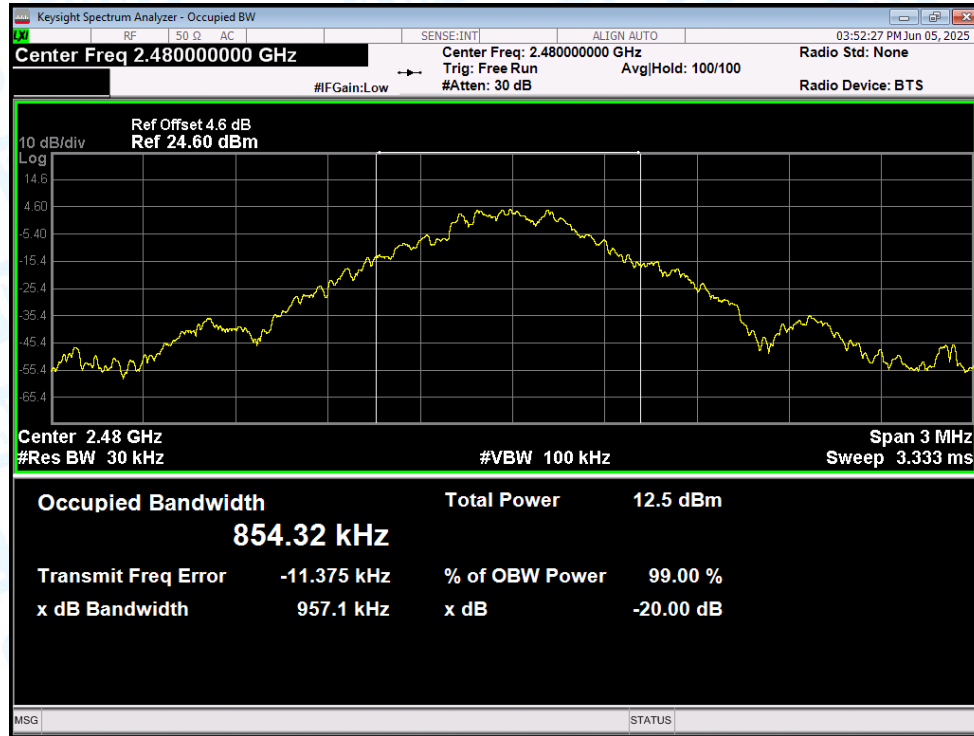
OBW NVNT 1-DH1 2402MHz Ant1



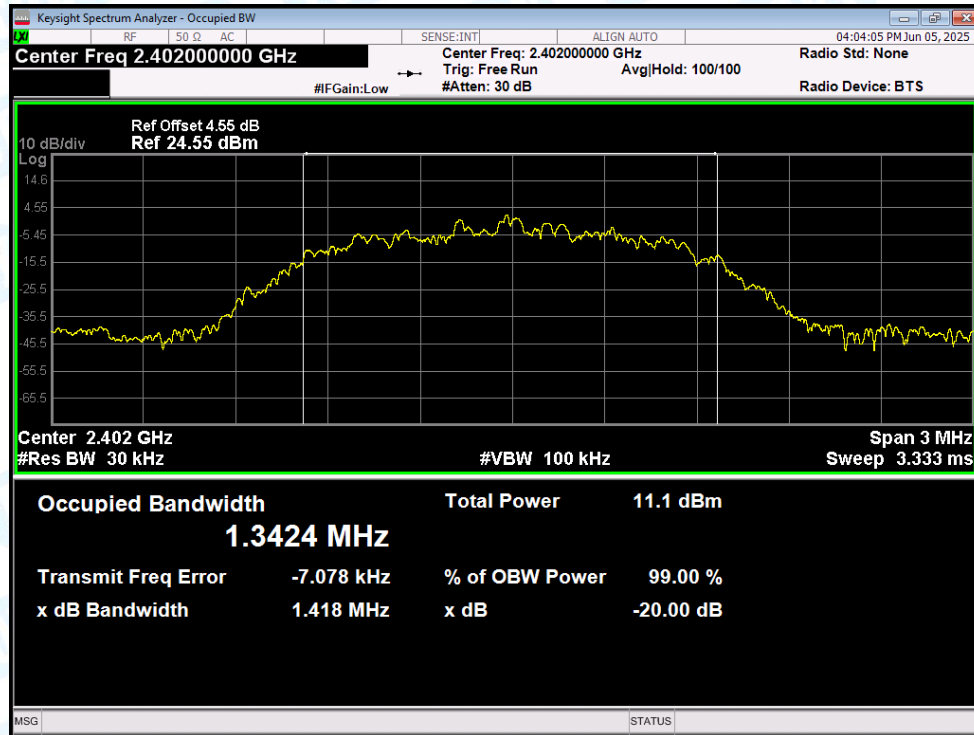
OBW NVNT 1-DH1 2441MHz Ant1



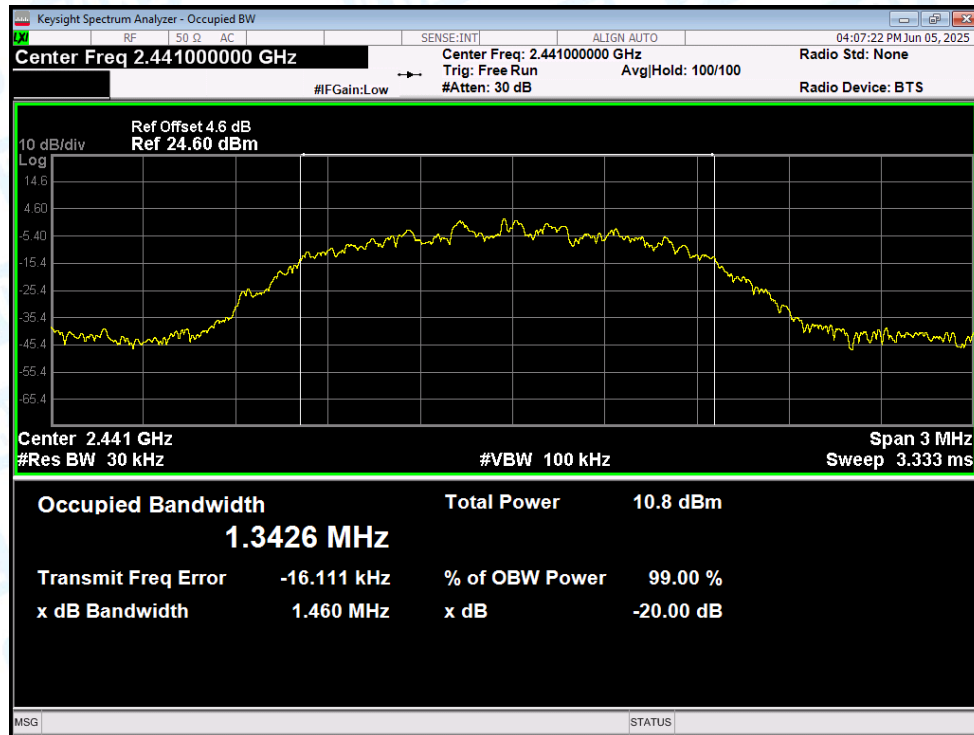
OBW NVNT 1-DH1 2480MHz Ant1



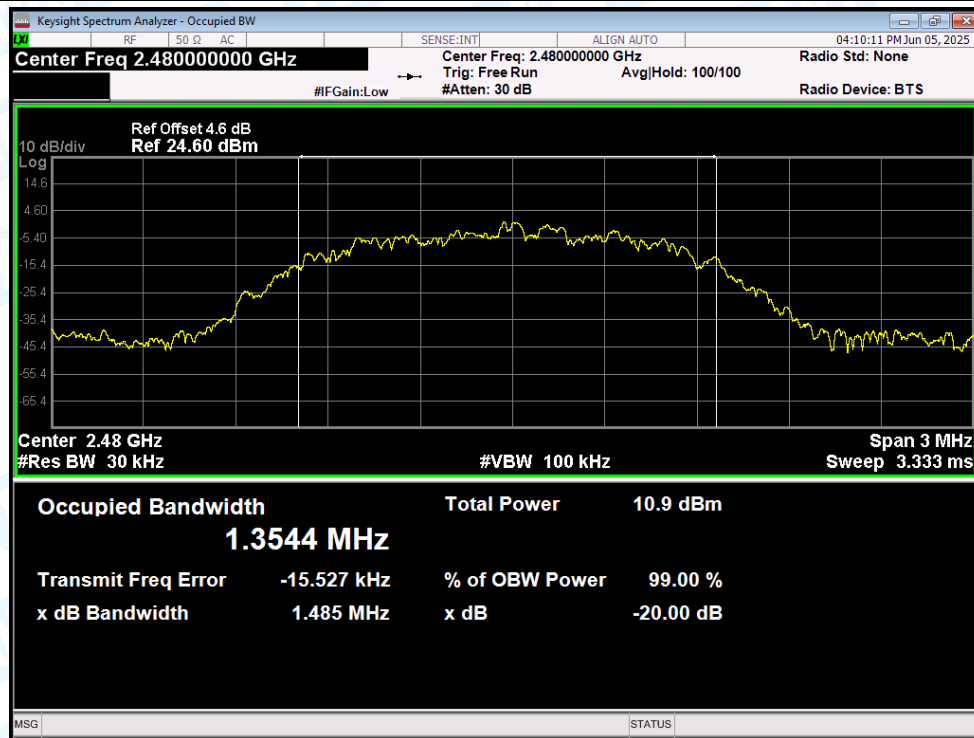
OBW NVNT 2-DH1 2402MHz Ant1



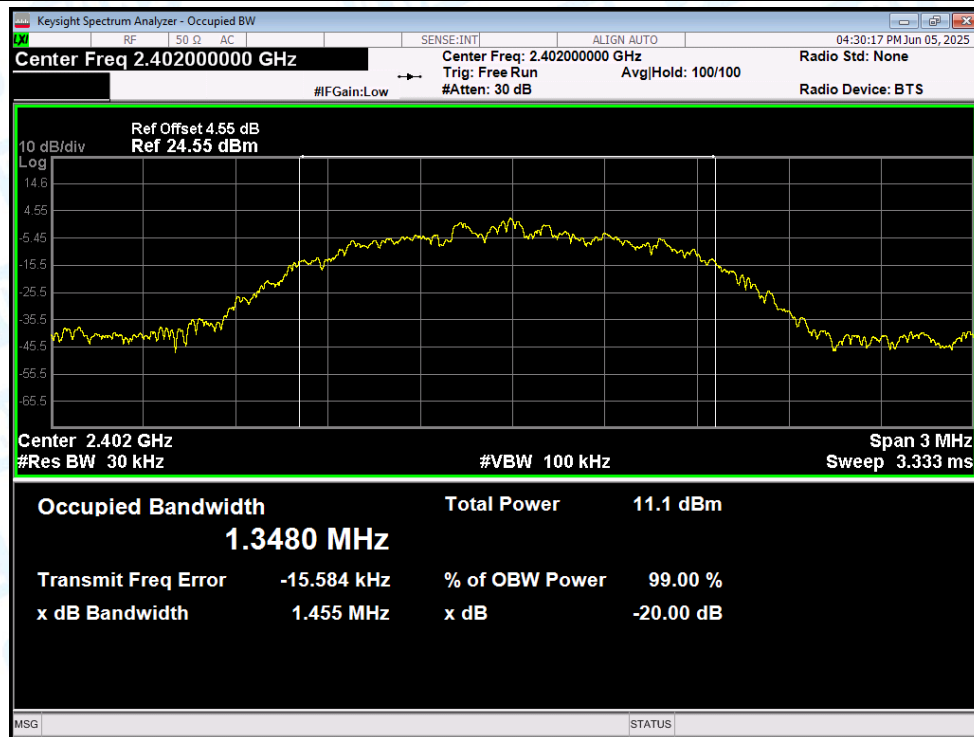
OBW NVNT 2-DH1 2441MHz Ant1



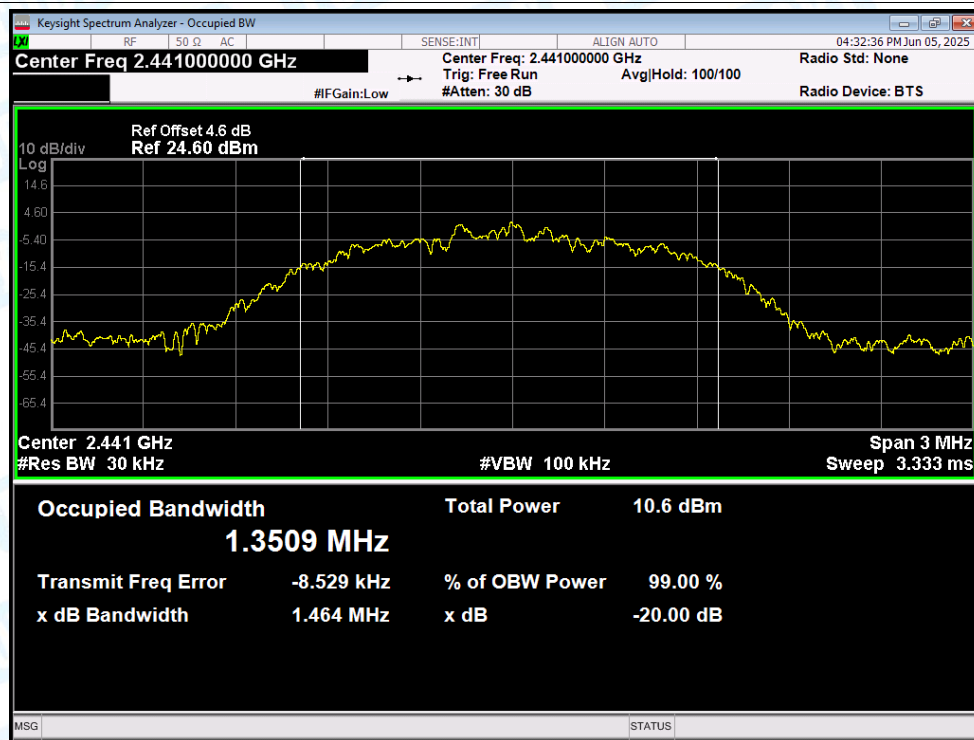
OBW NVNT 2-DH1 2480MHz Ant1

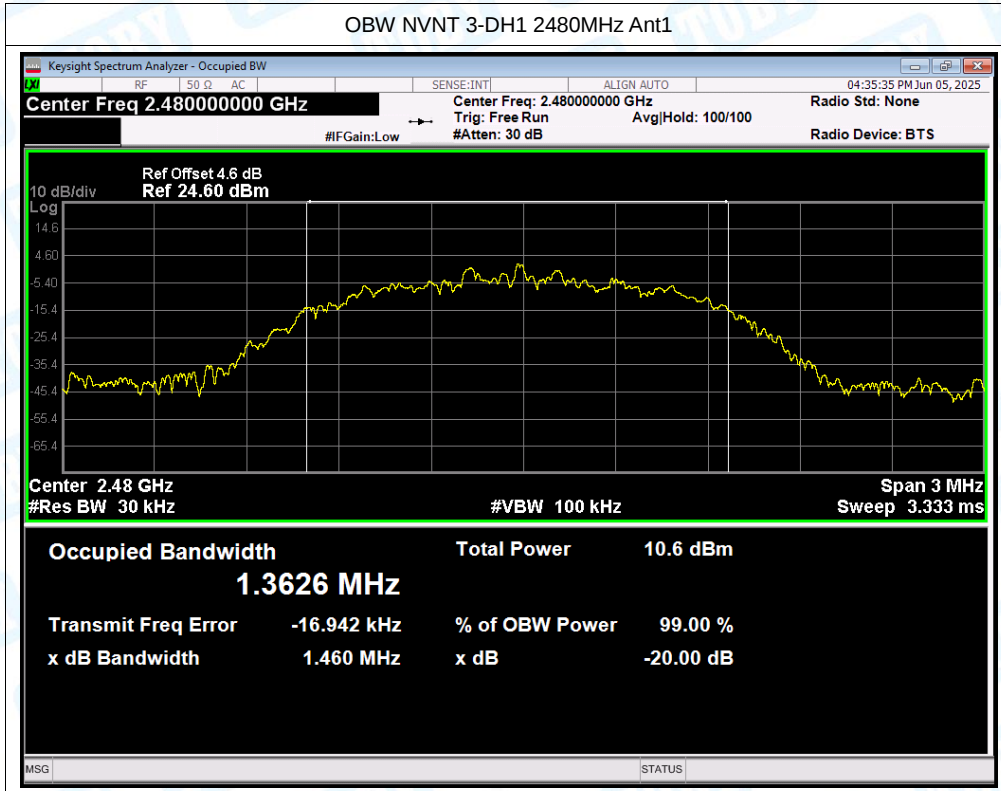


OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1



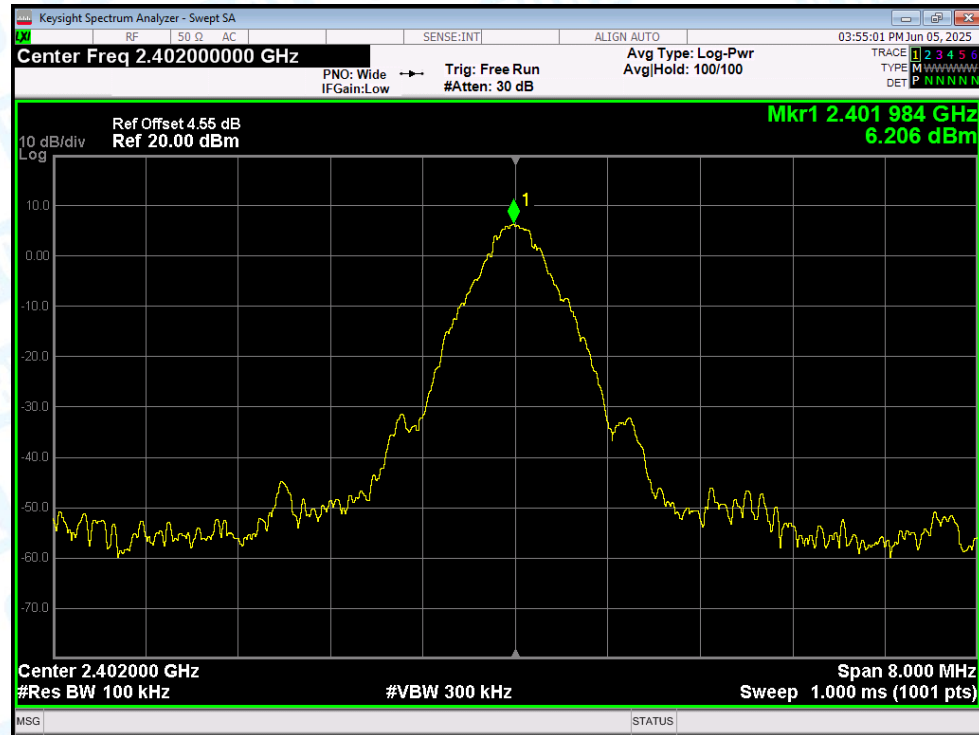


5. Band Edge

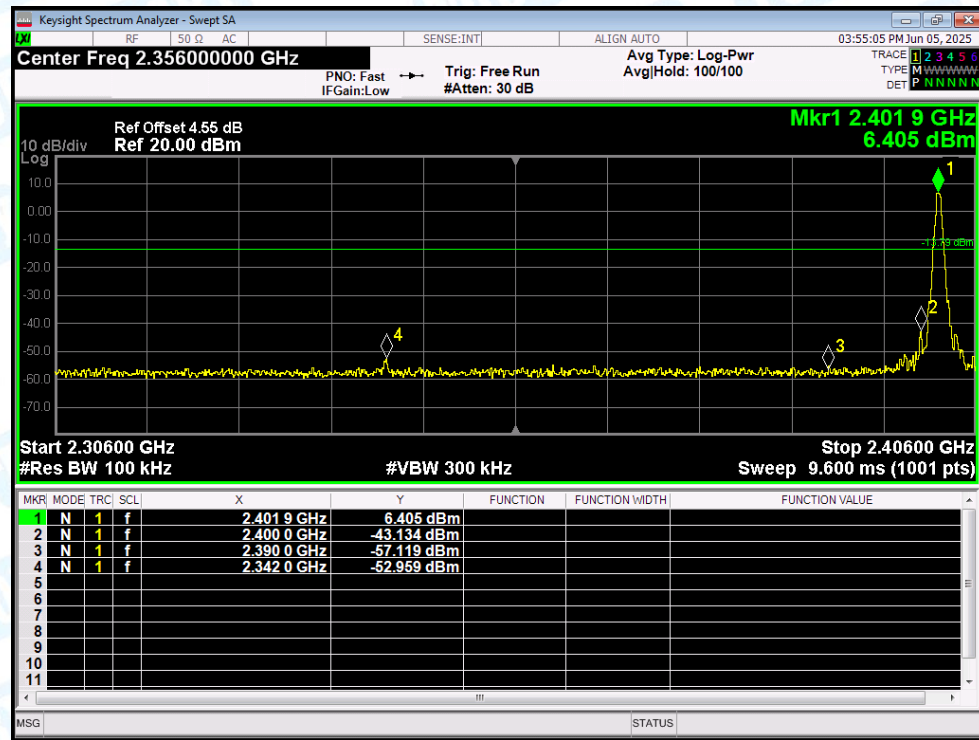
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-59.17	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-51.26	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-59.29	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-54.77	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-58.54	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-49.8	-20	Pass

Test Graphs

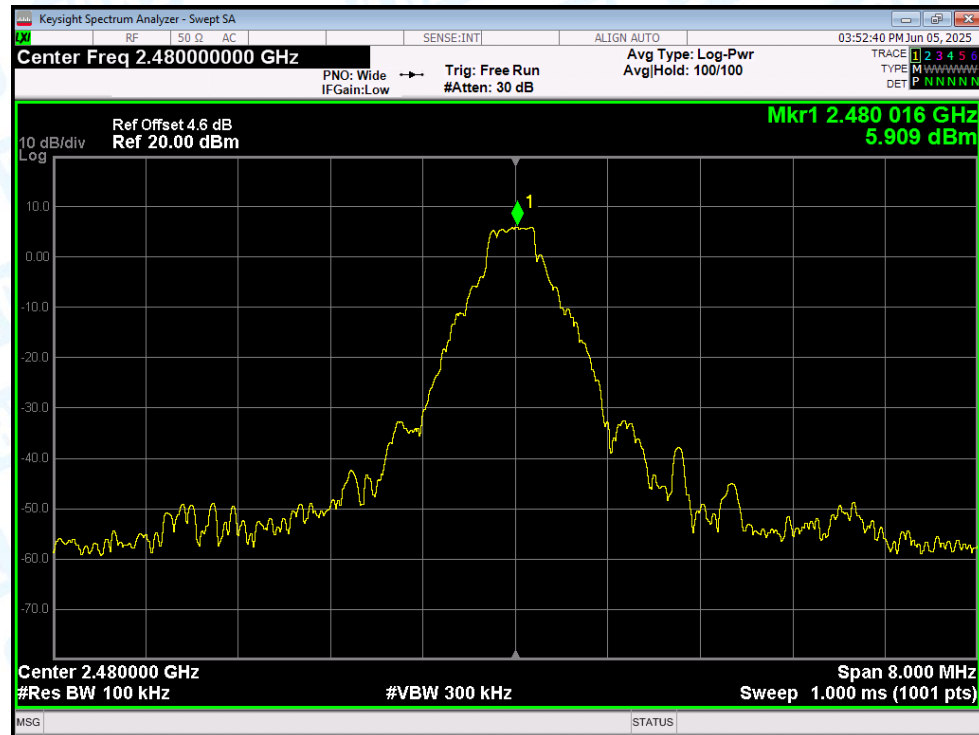
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



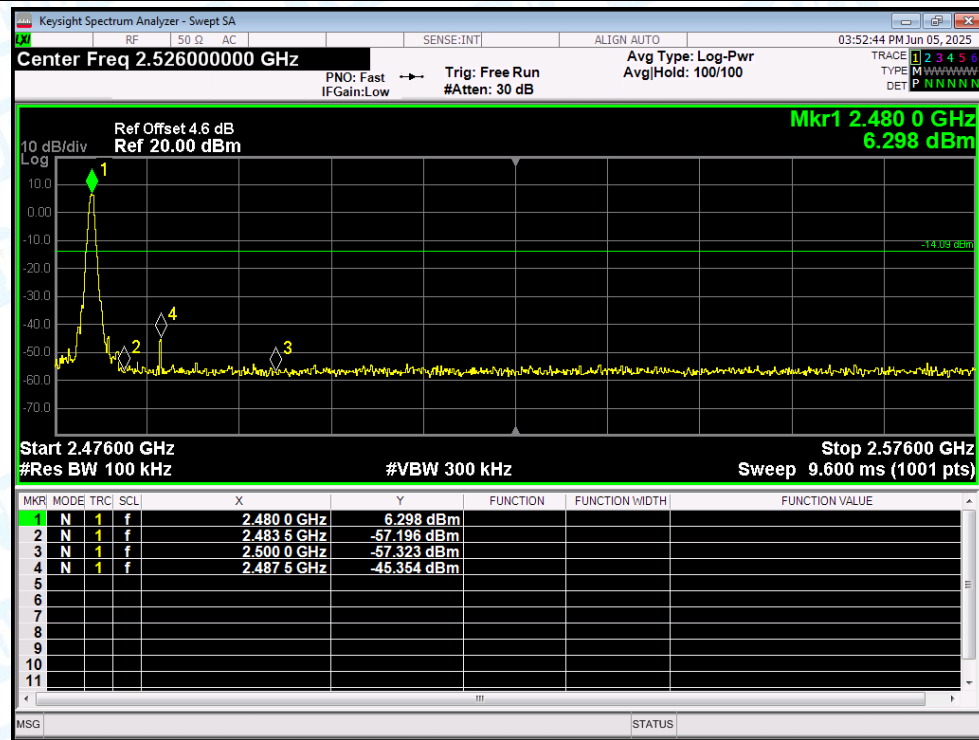
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



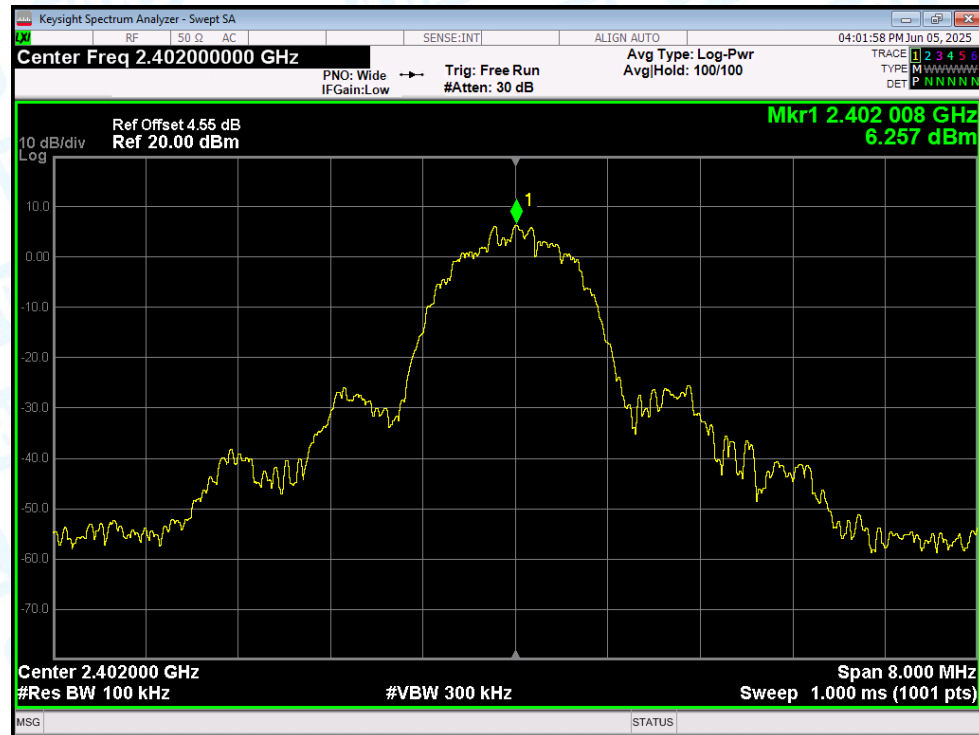
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



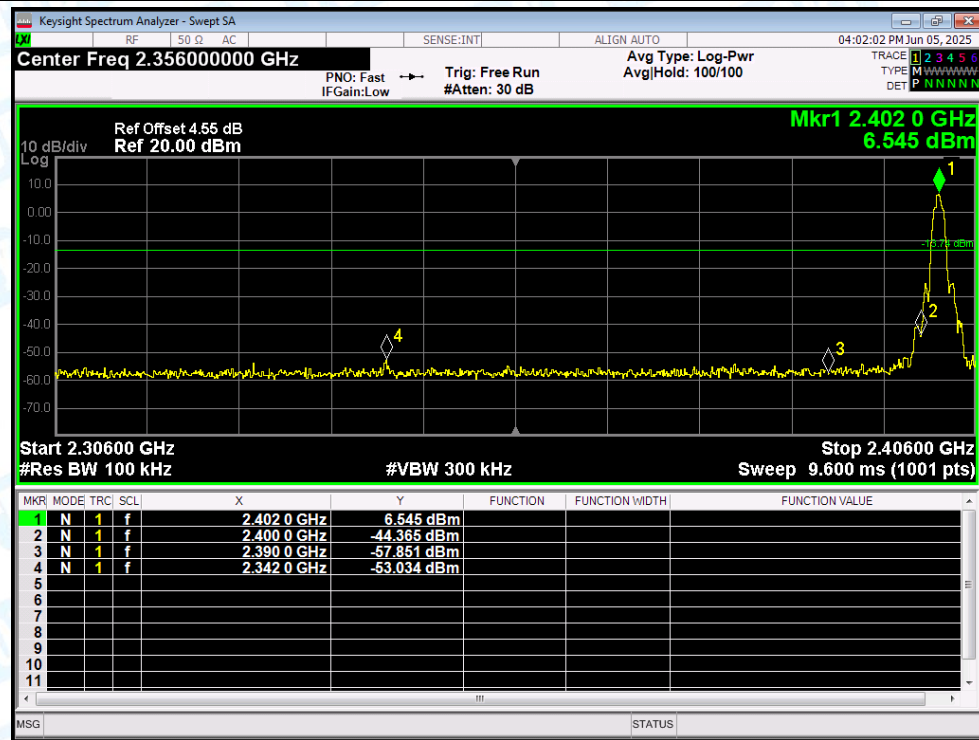
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



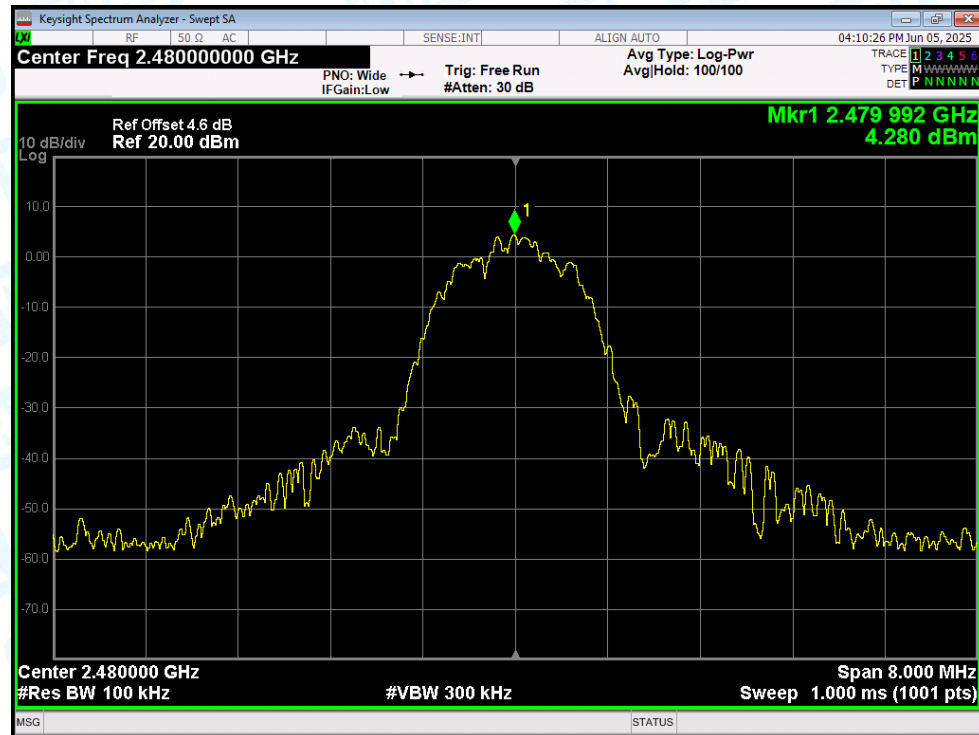
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



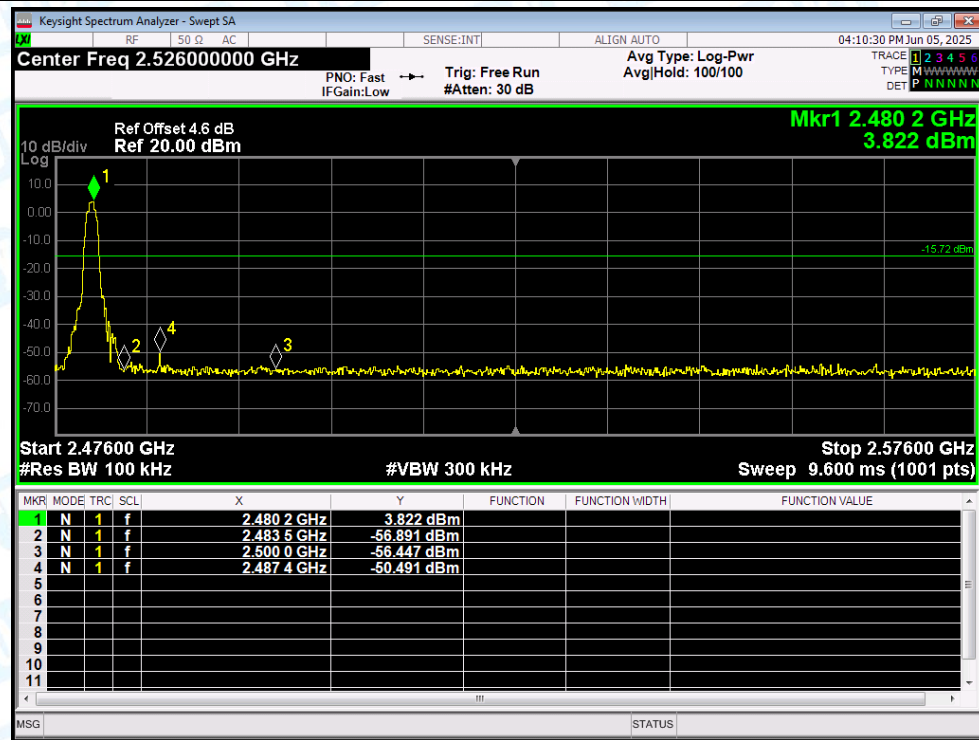
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



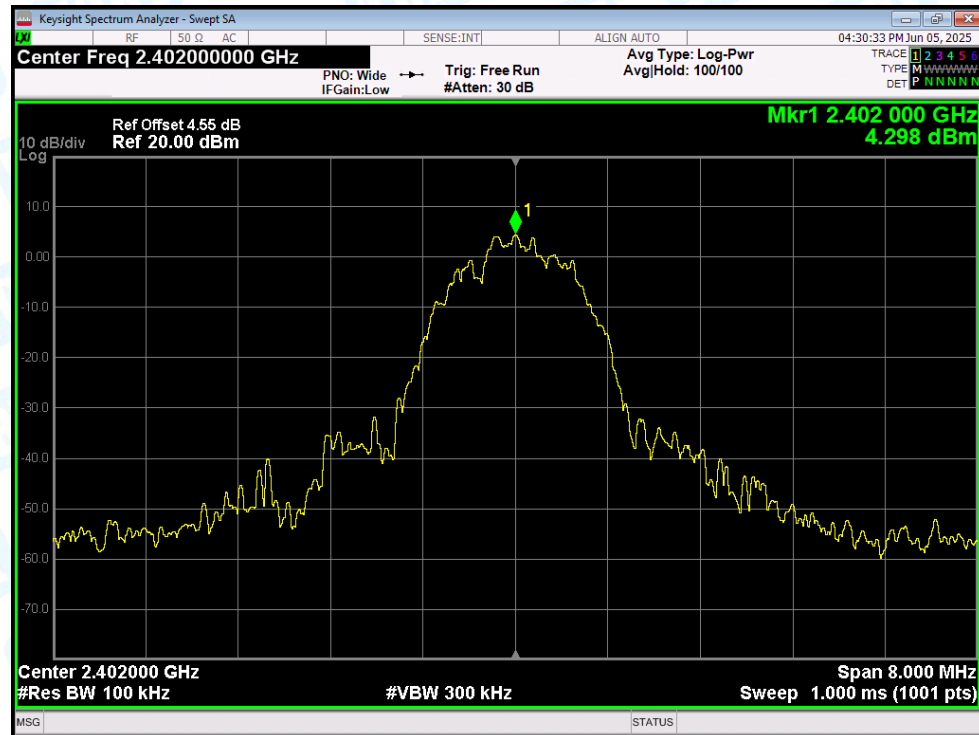
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Ref



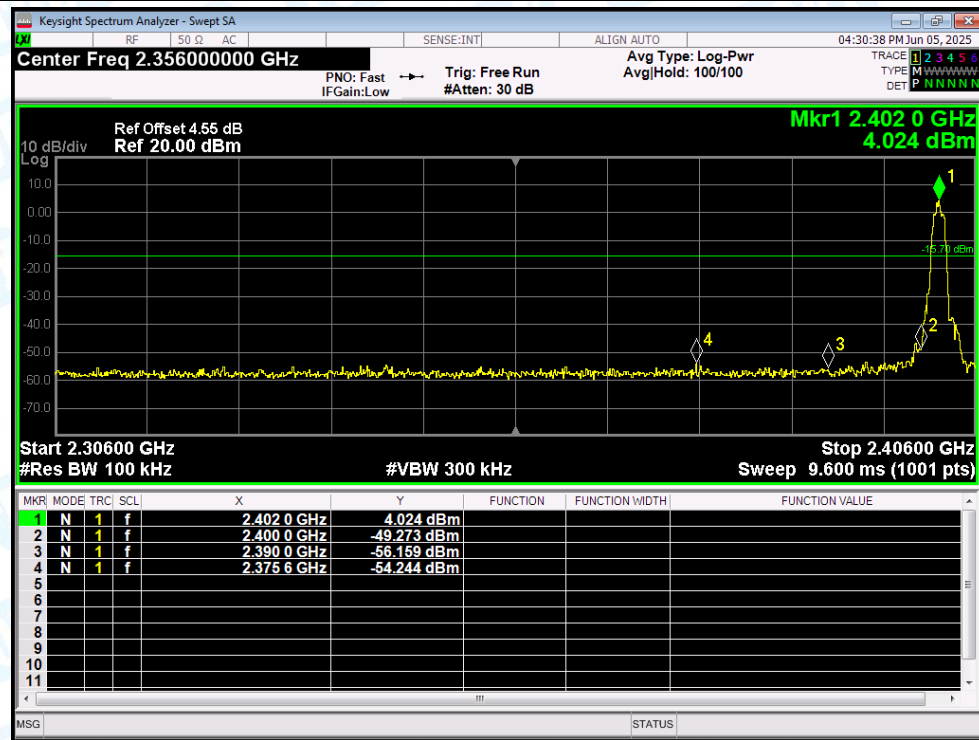
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission



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



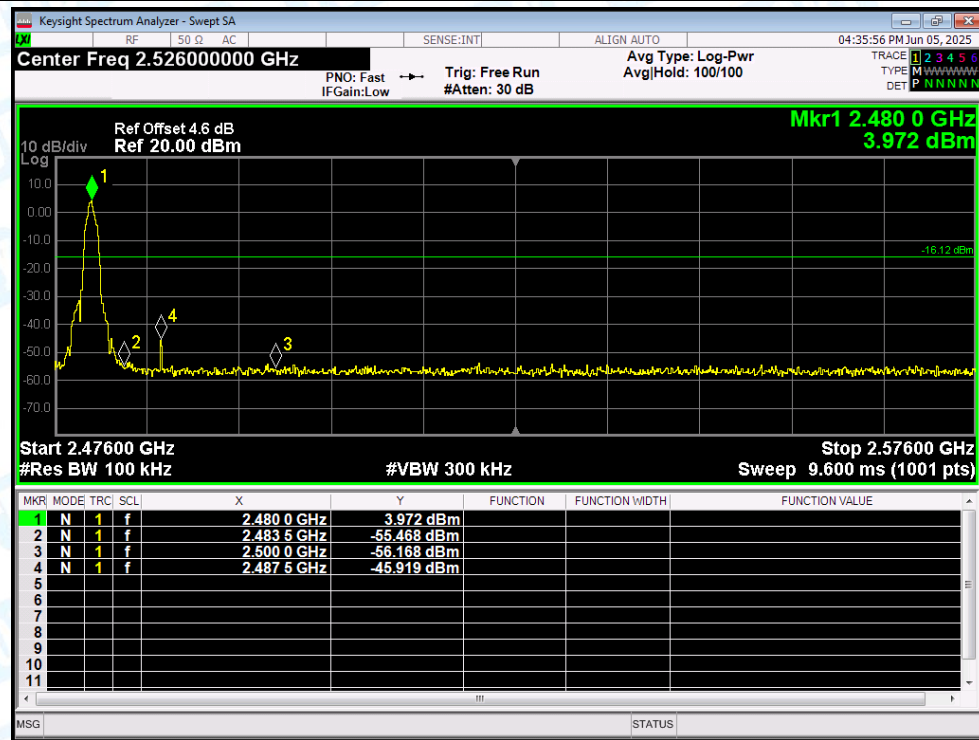
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission



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



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

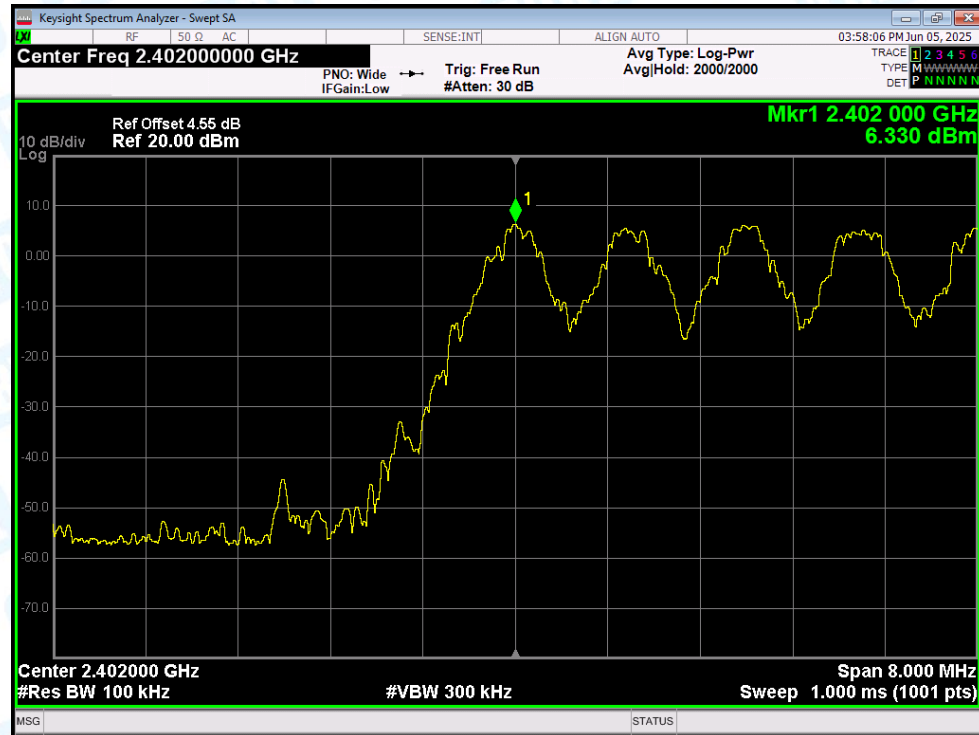


6. Band Edge(Hopping)

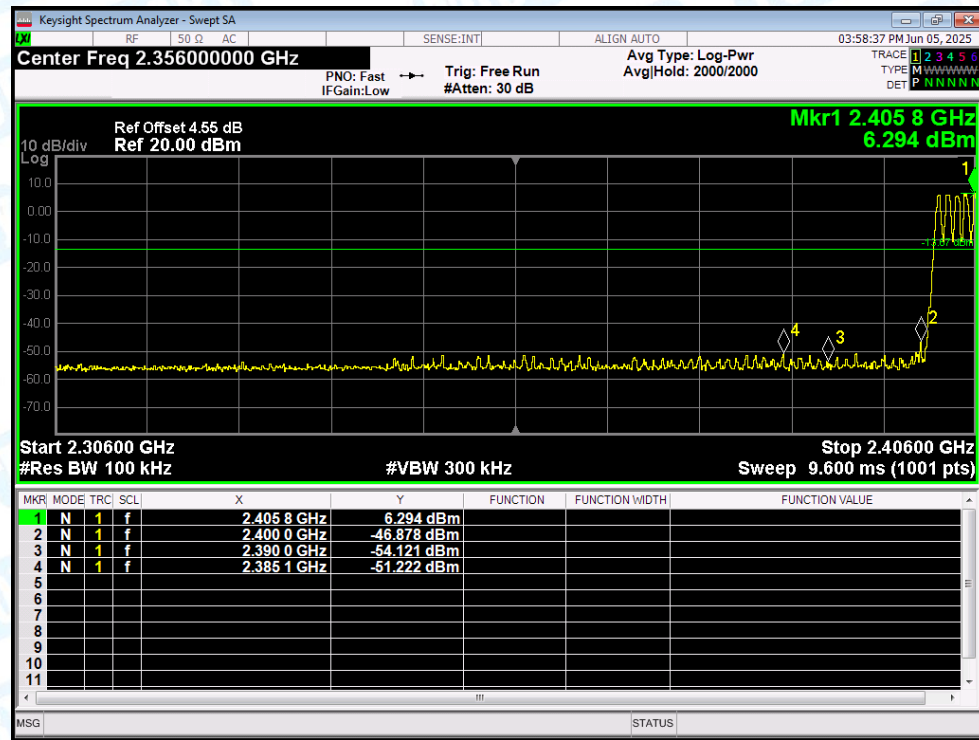
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-57.55	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-51.79	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-55.92	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-58.37	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-57.28	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-50.74	-20	Pass

Test Graphs

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



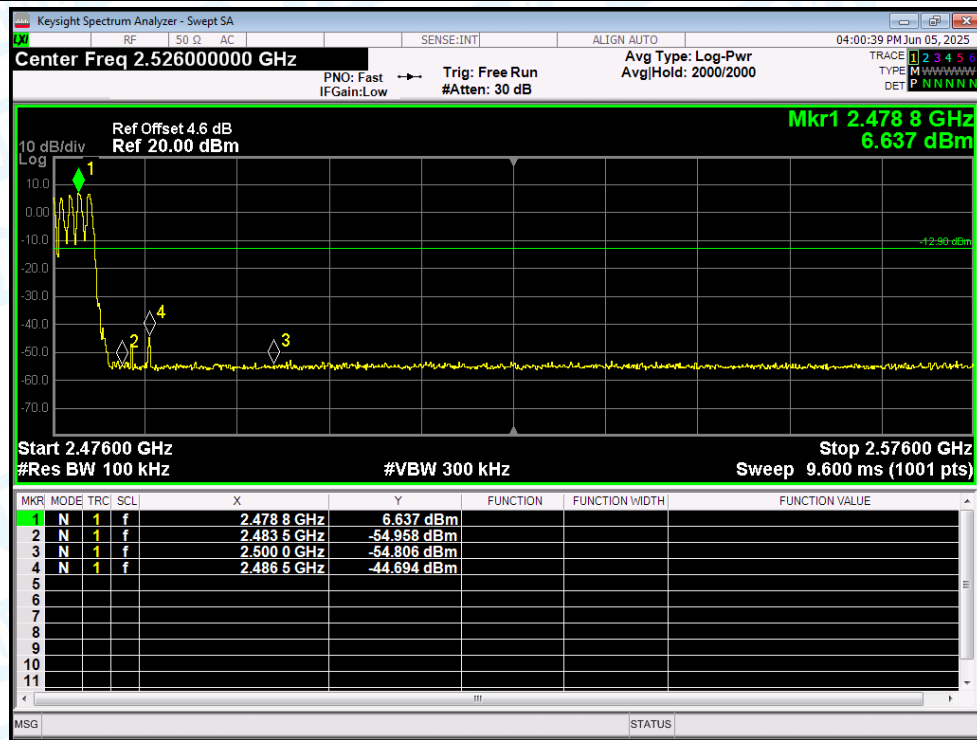
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission



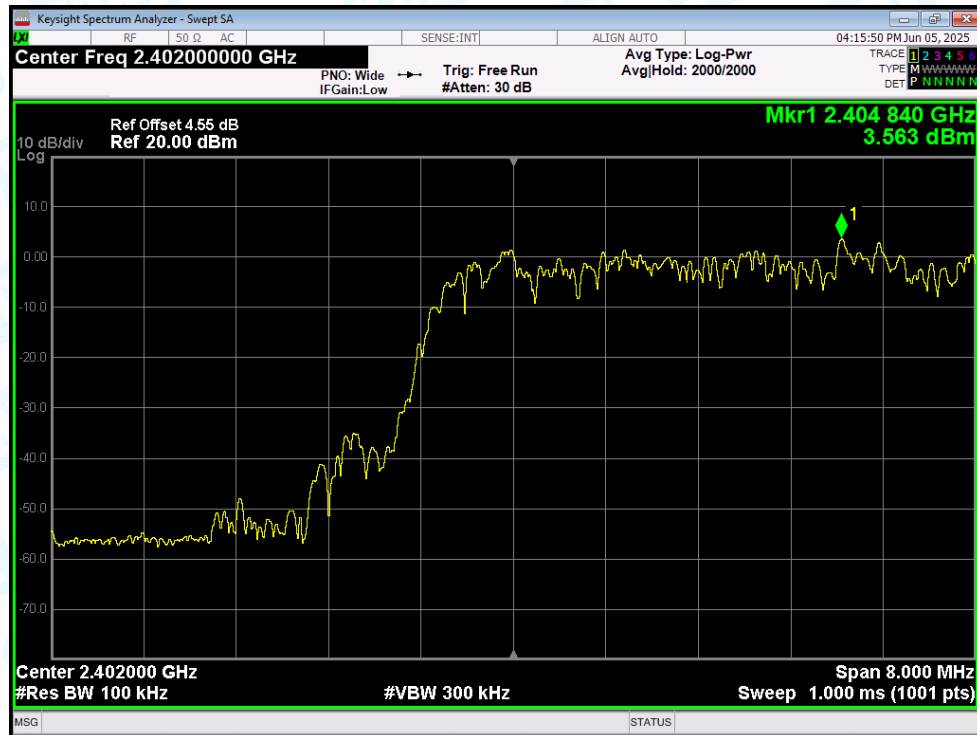
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Ref



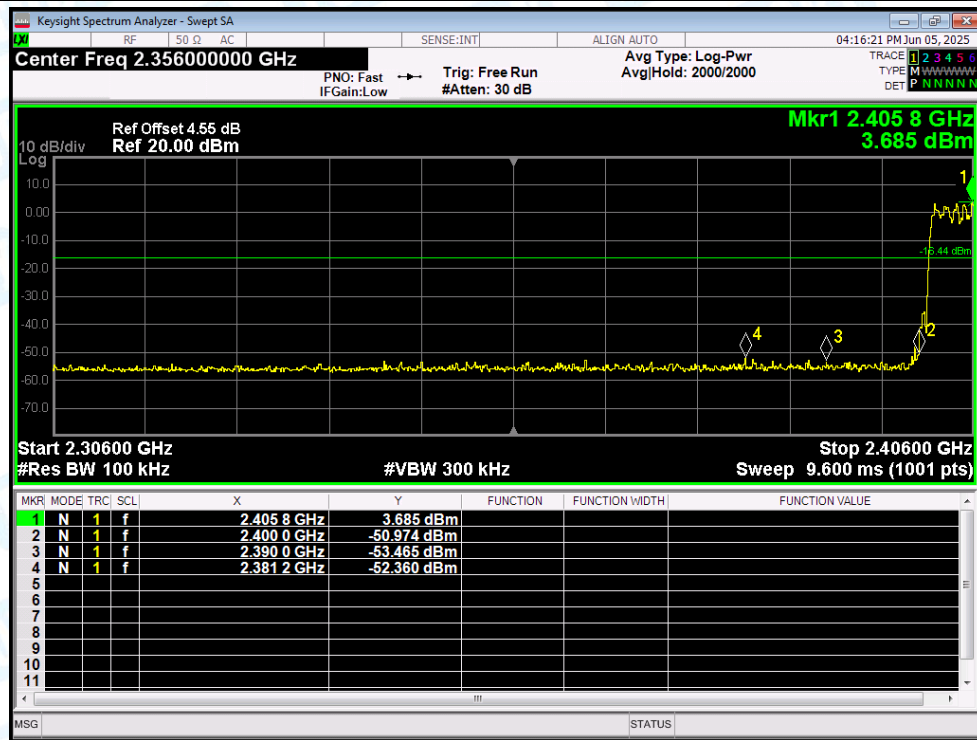
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission

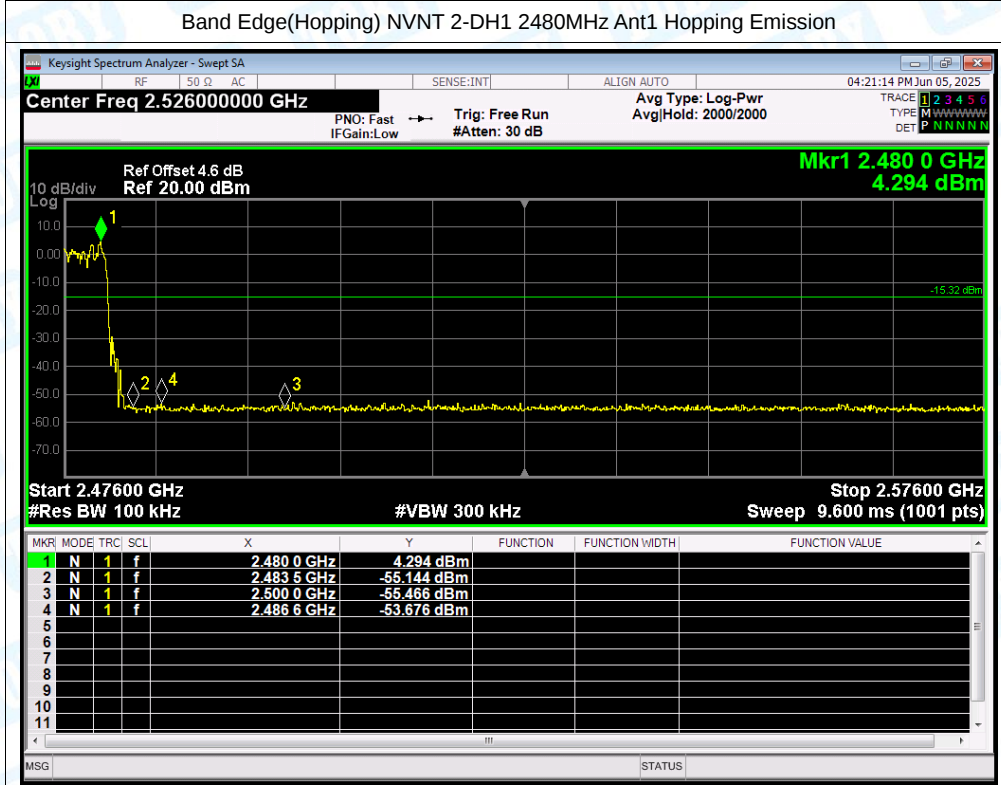


Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Ref

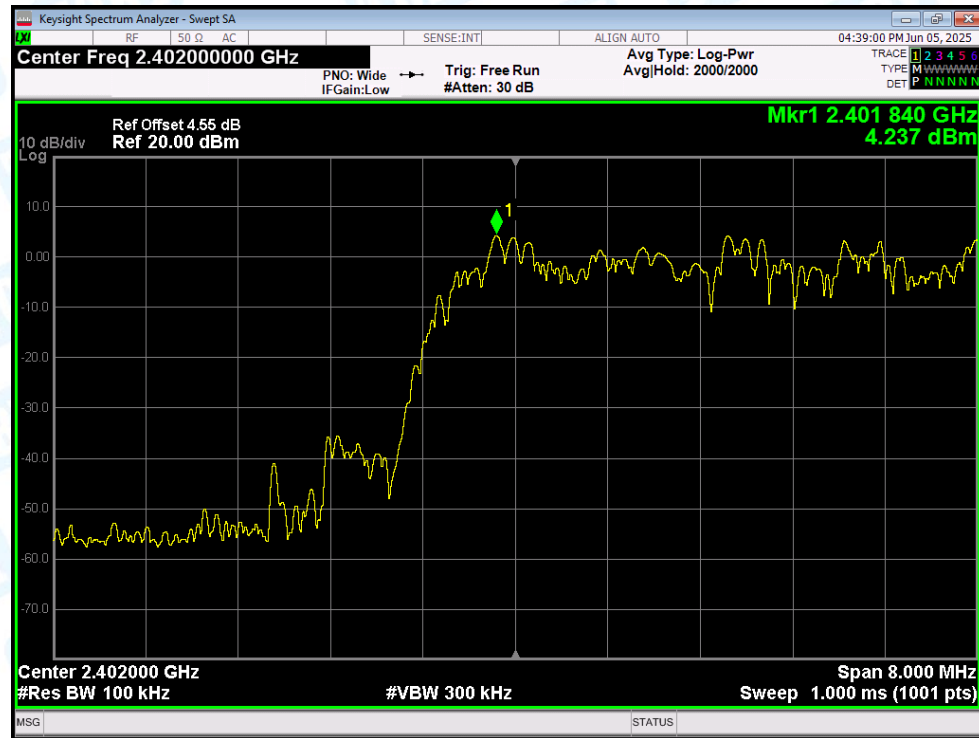


Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission

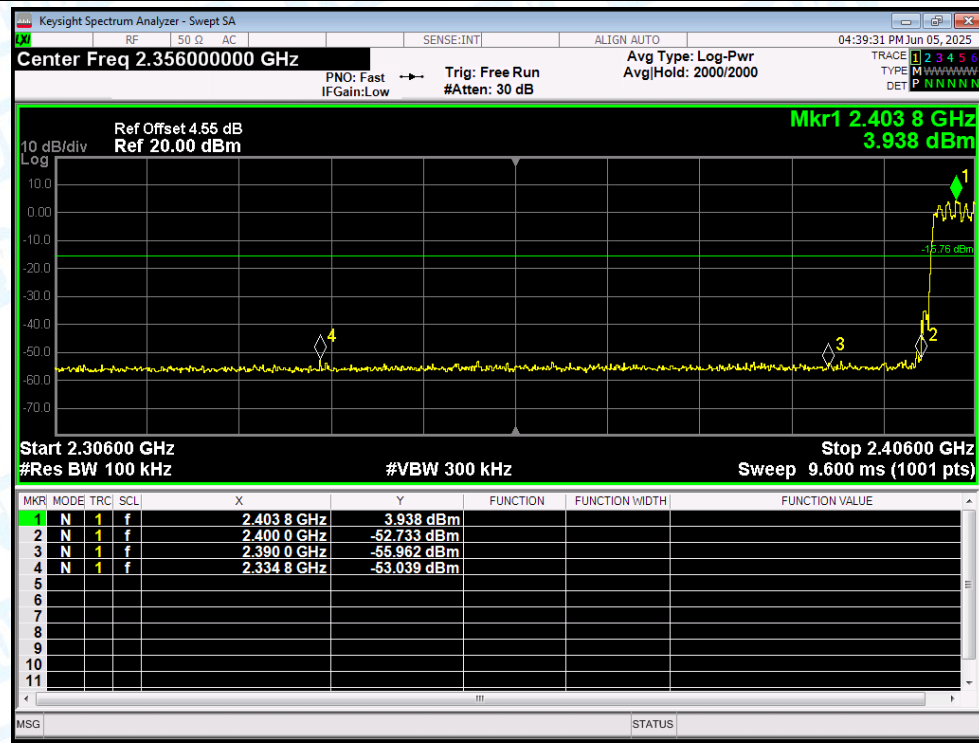




Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Ref



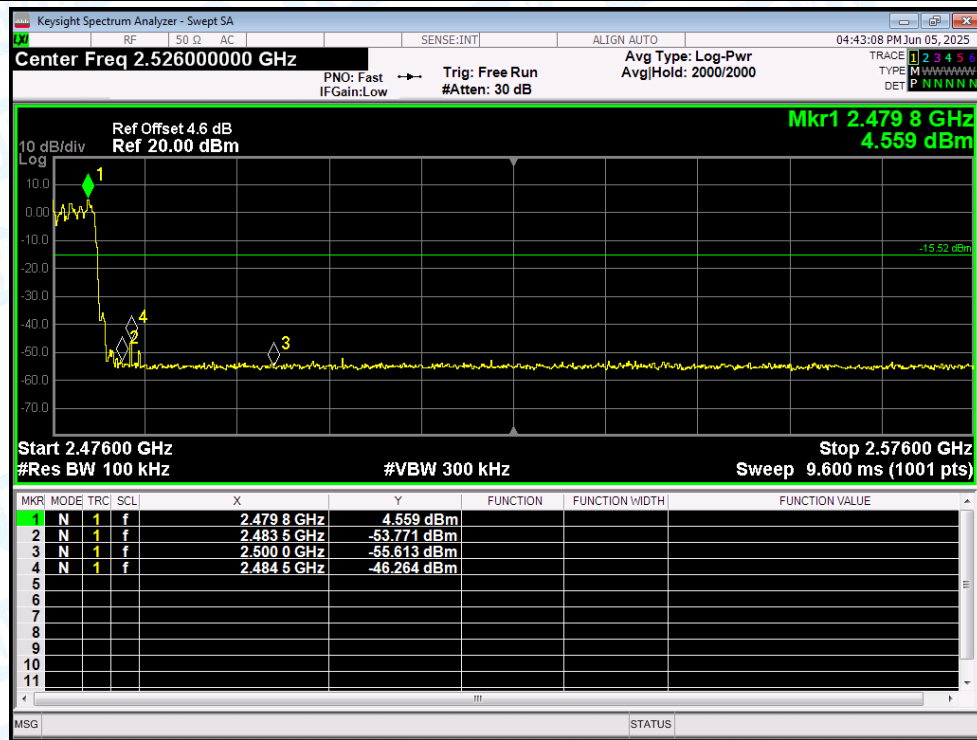
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Emission



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



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

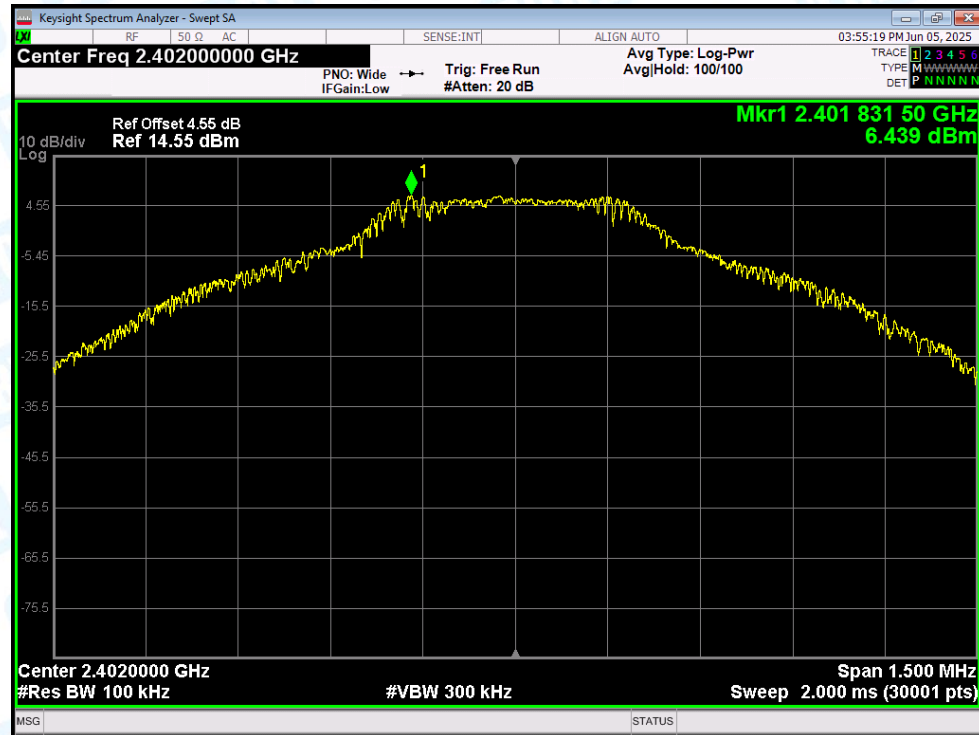


7. Conducted RF Spurious Emission

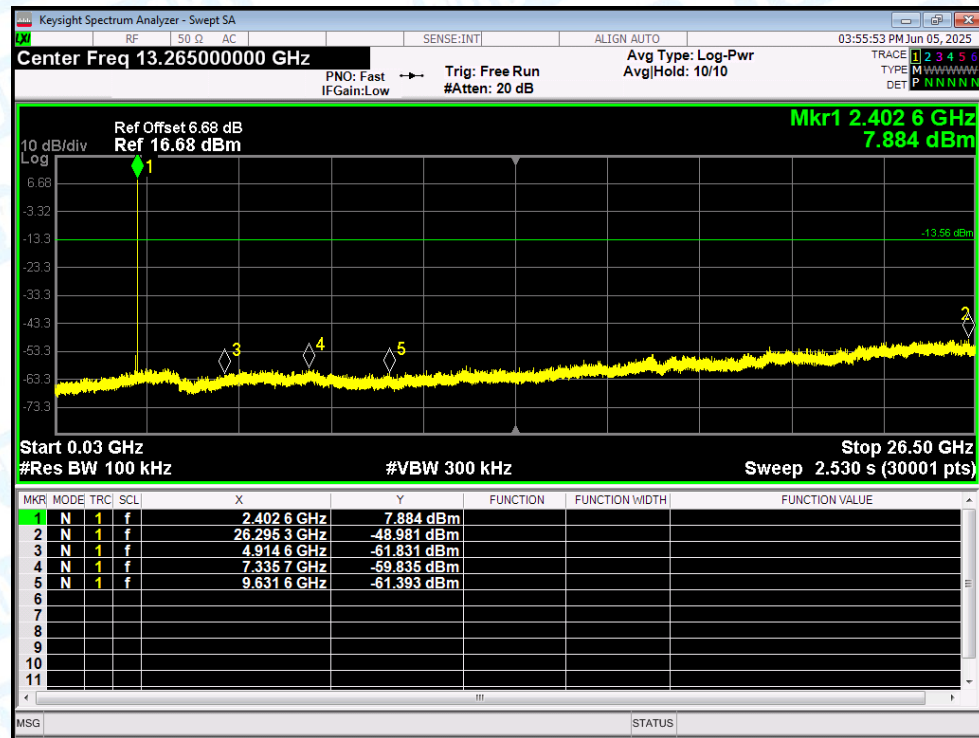
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-55.42	-20	Pass
NVNT	1-DH1	2441	Ant1	-55.88	-20	Pass
NVNT	1-DH1	2480	Ant1	-54.9	-20	Pass
NVNT	2-DH1	2402	Ant1	-55.64	-20	Pass
NVNT	2-DH1	2441	Ant1	-53.36	-20	Pass
NVNT	2-DH1	2480	Ant1	-53.44	-20	Pass
NVNT	3-DH1	2402	Ant1	-53.44	-20	Pass
NVNT	3-DH1	2441	Ant1	-53.15	-20	Pass
NVNT	3-DH1	2480	Ant1	-52.9	-20	Pass

Test Graphs

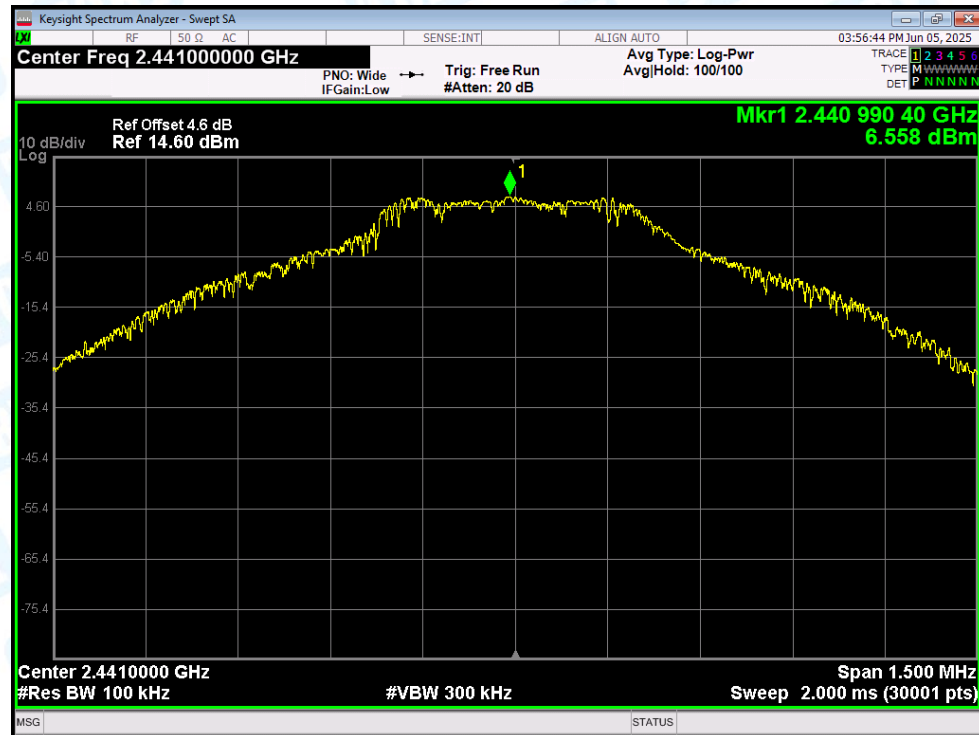
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



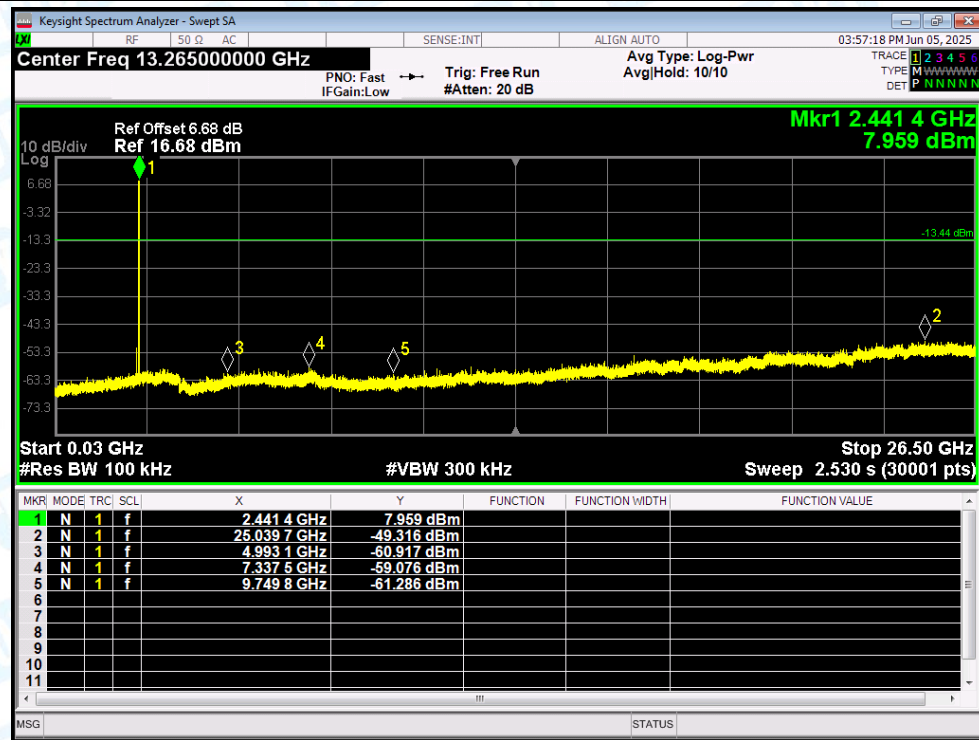
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



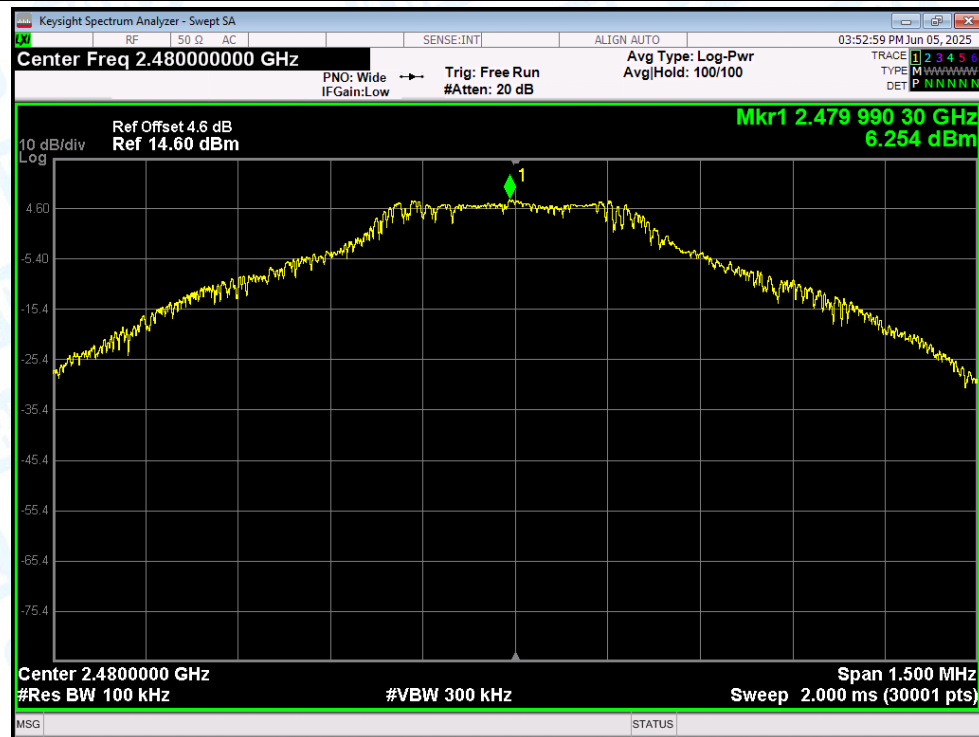
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



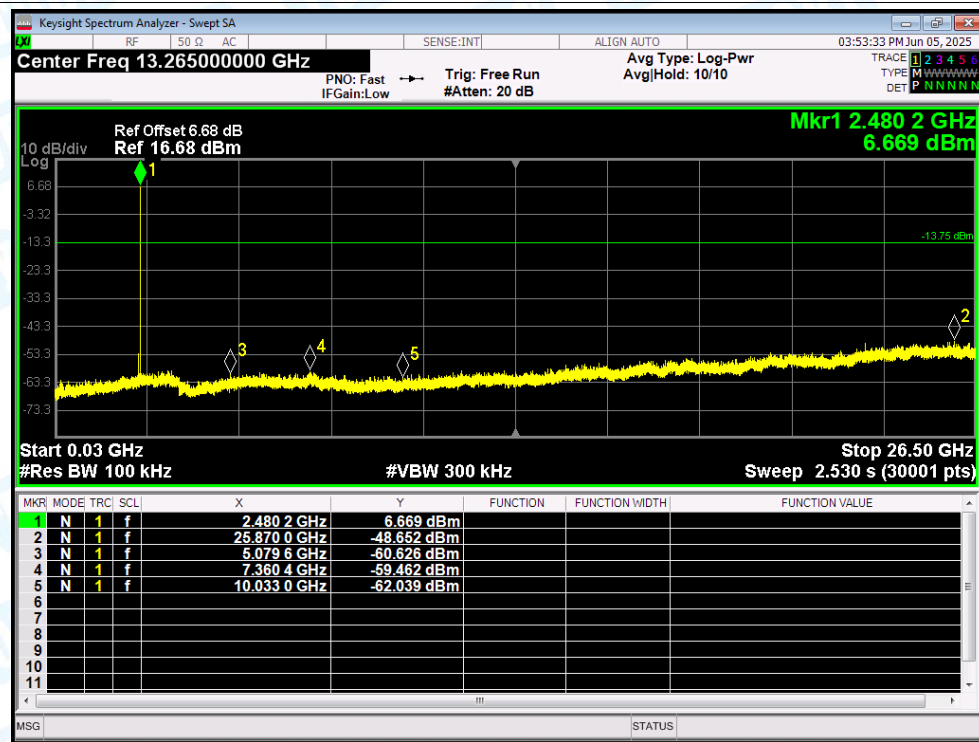
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



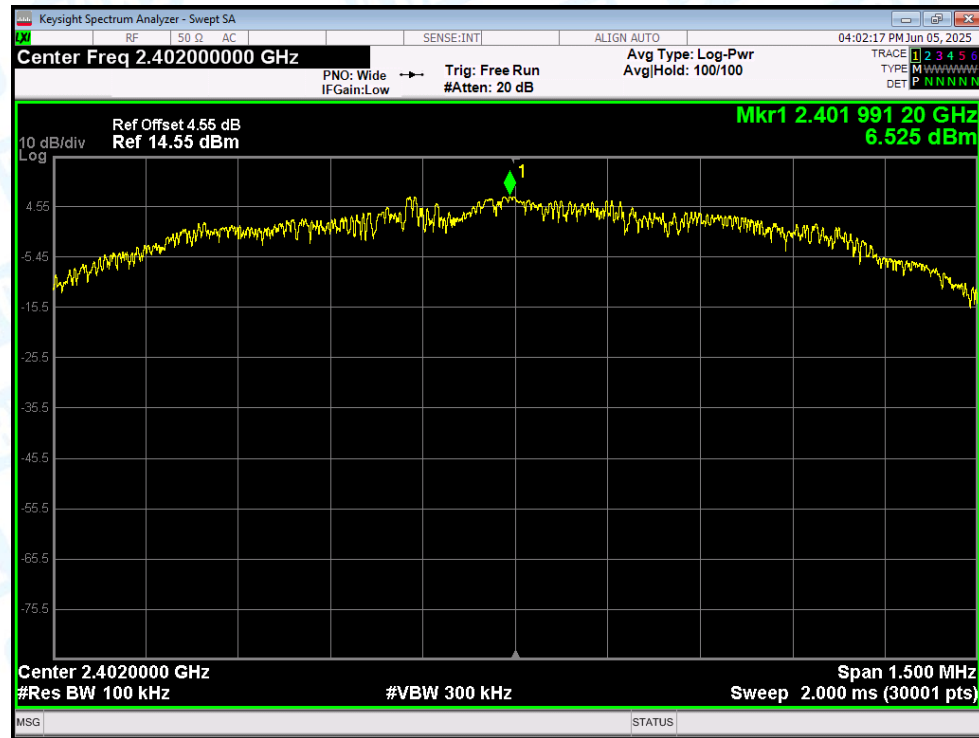
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



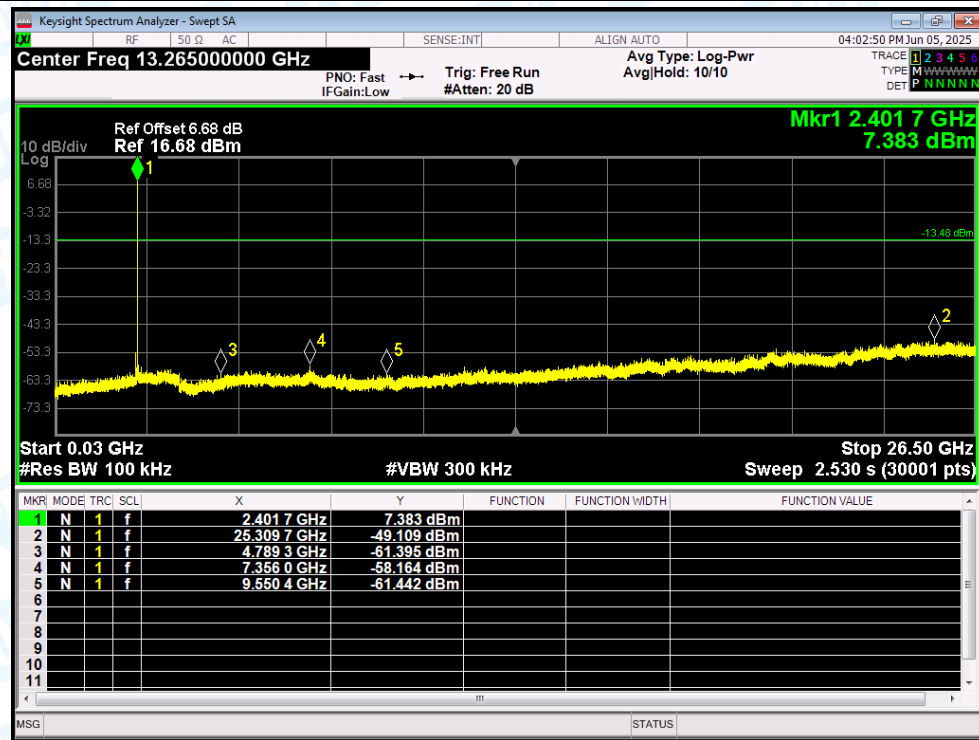
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



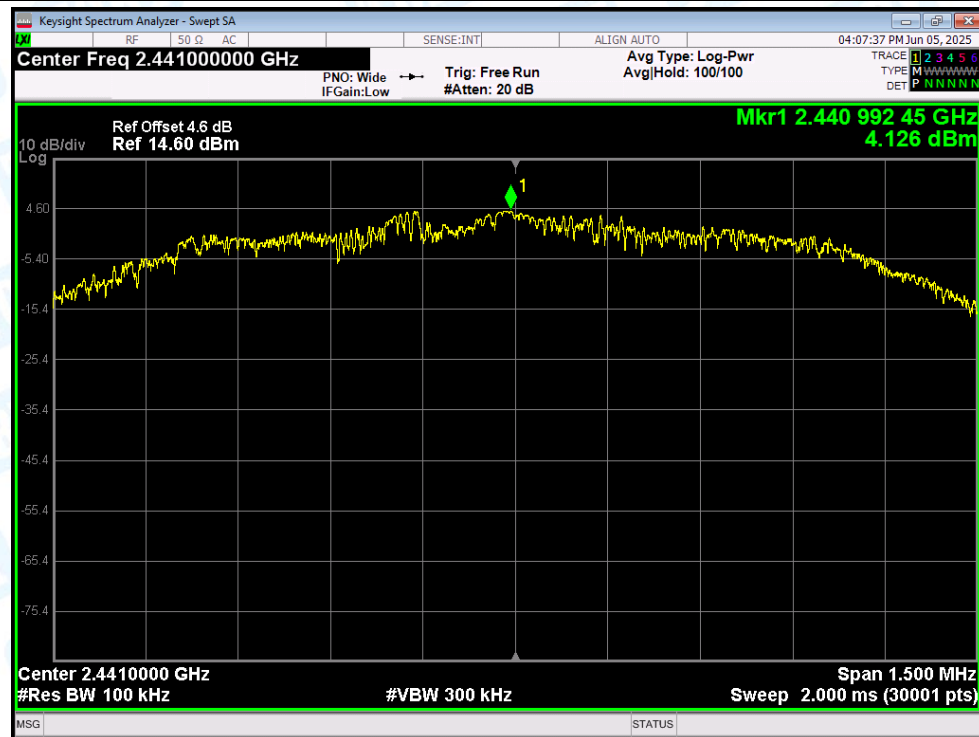
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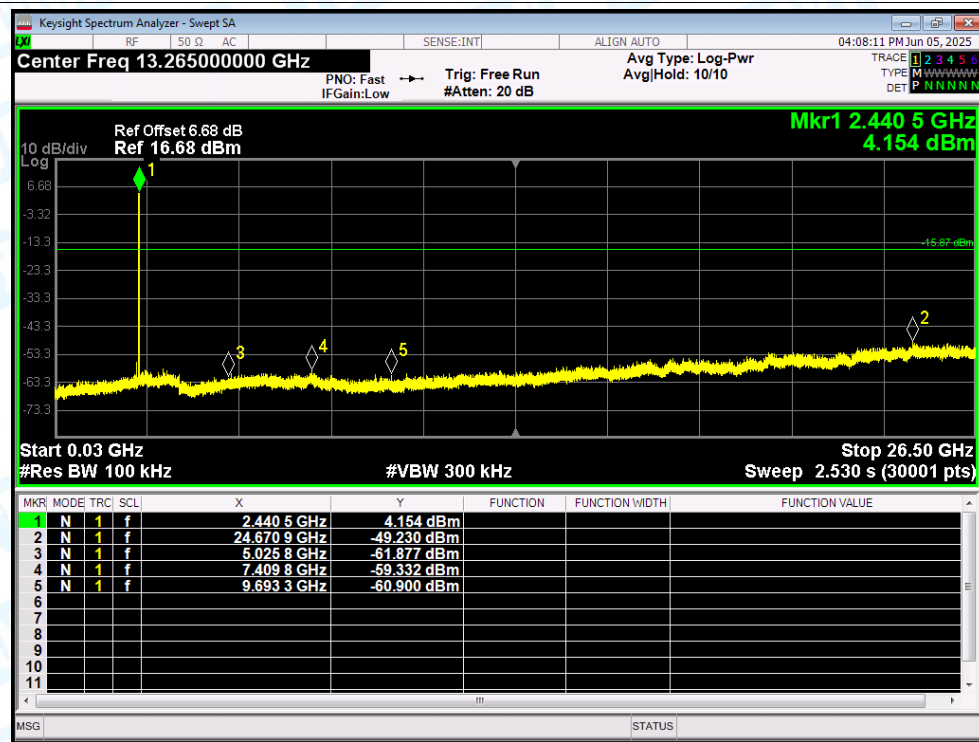
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



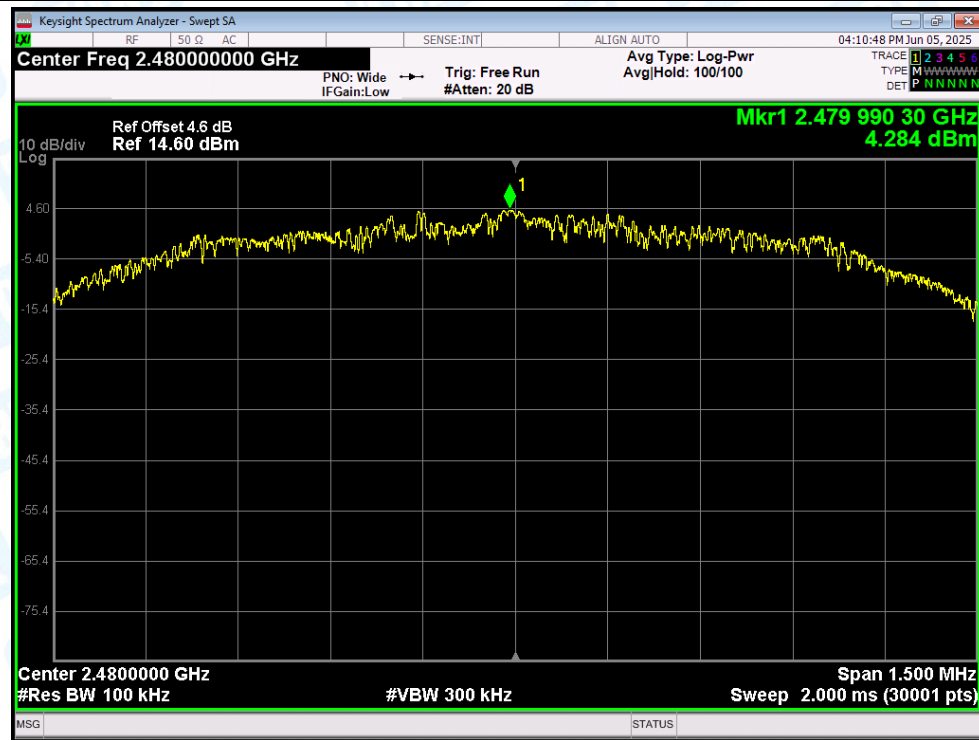
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



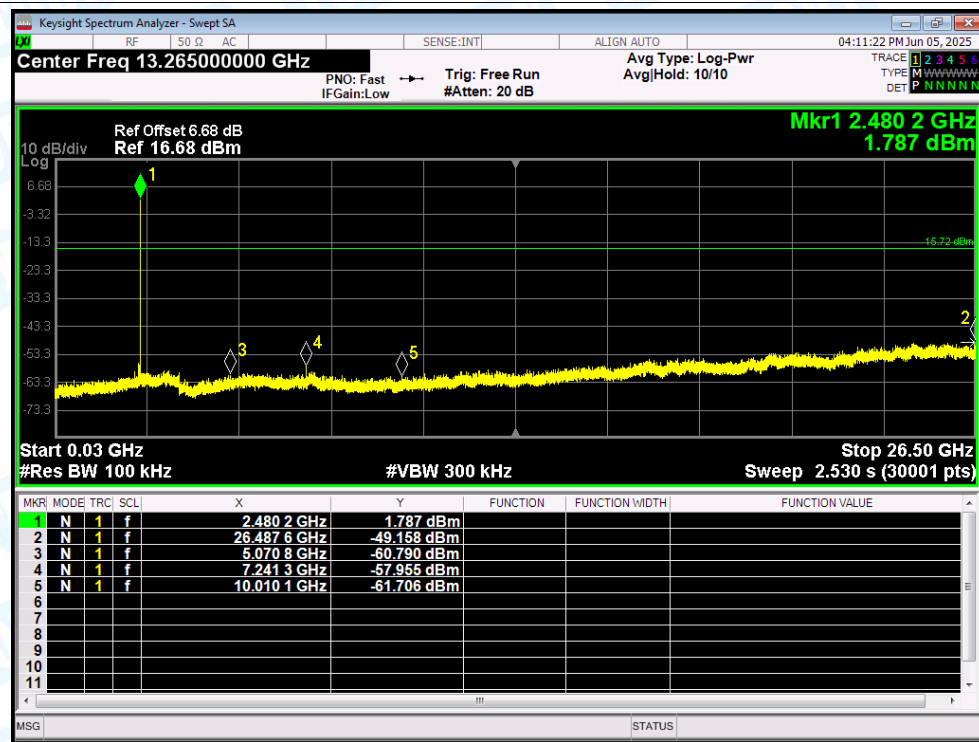
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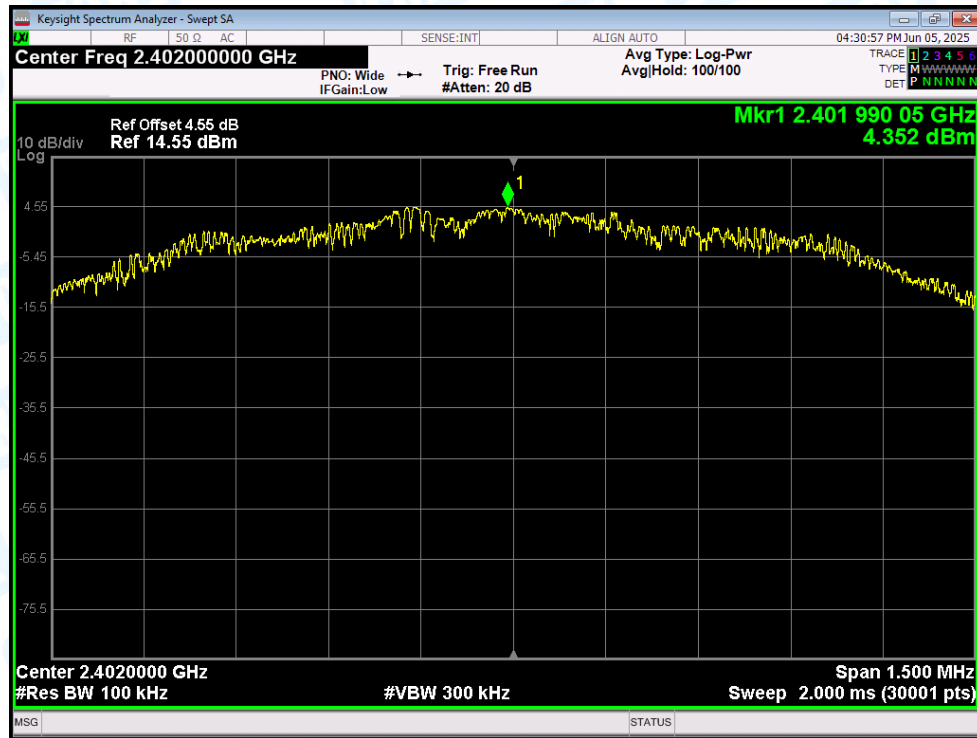
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



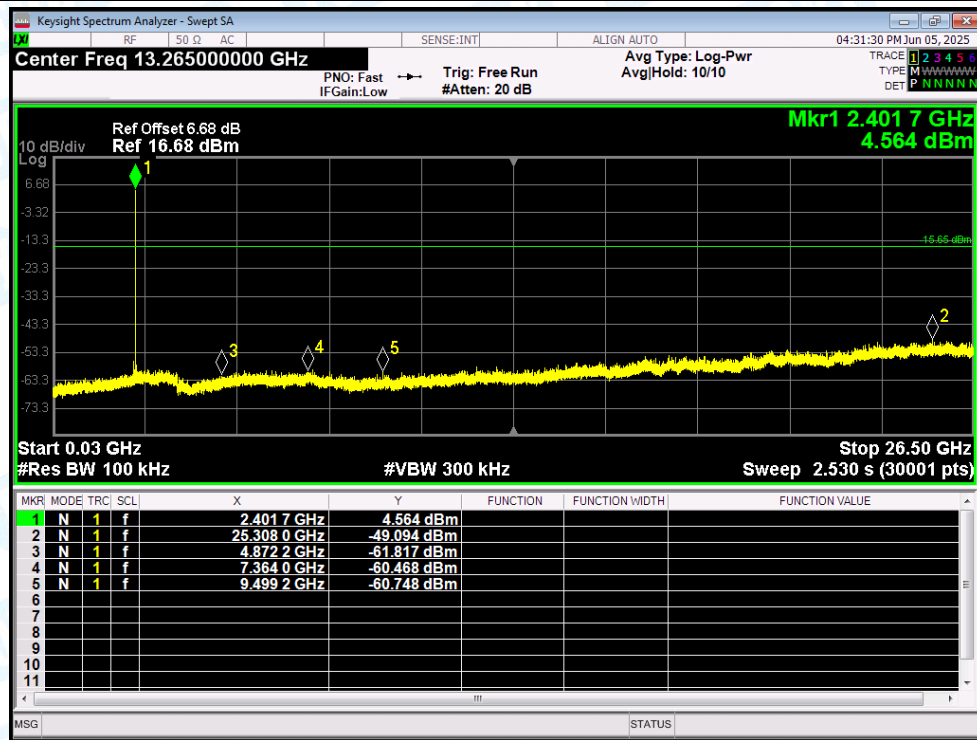
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission



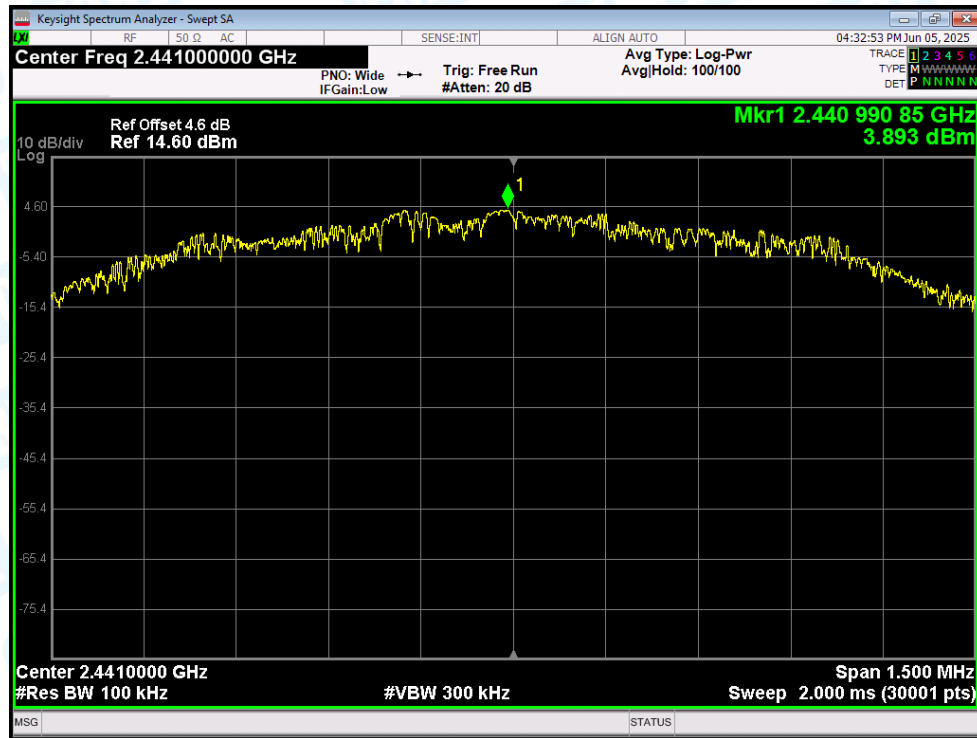
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



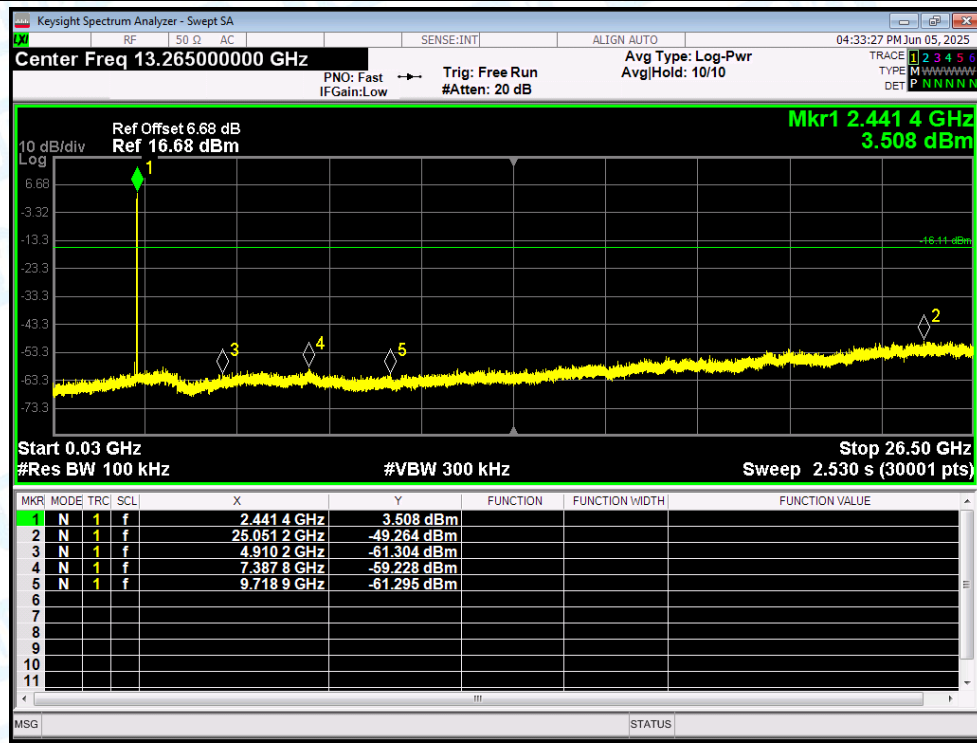
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission



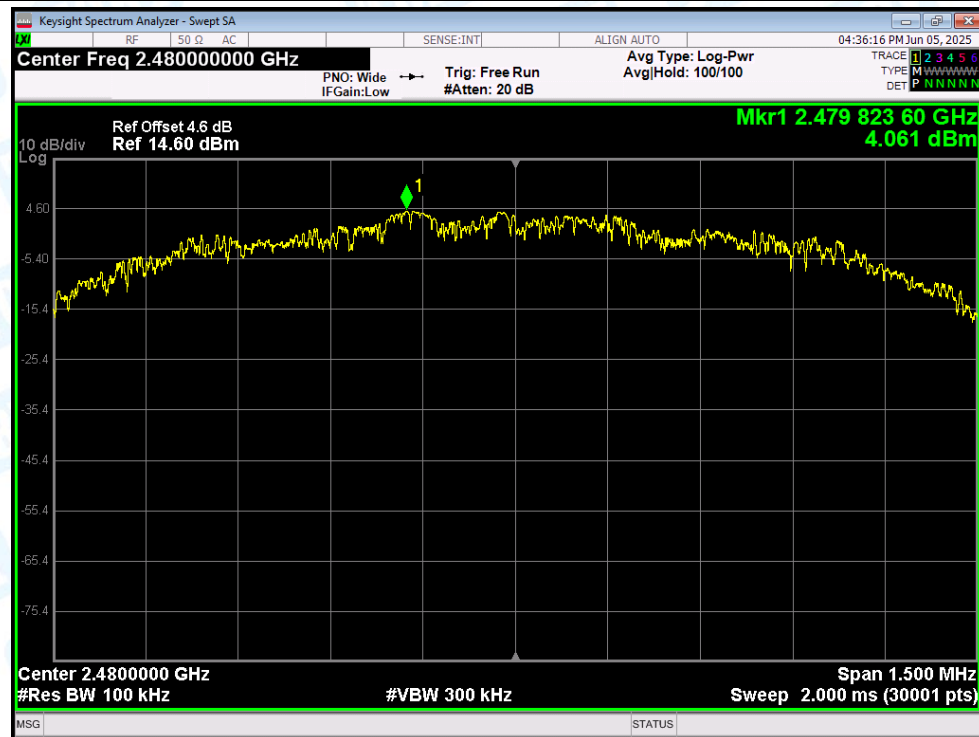
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Ref



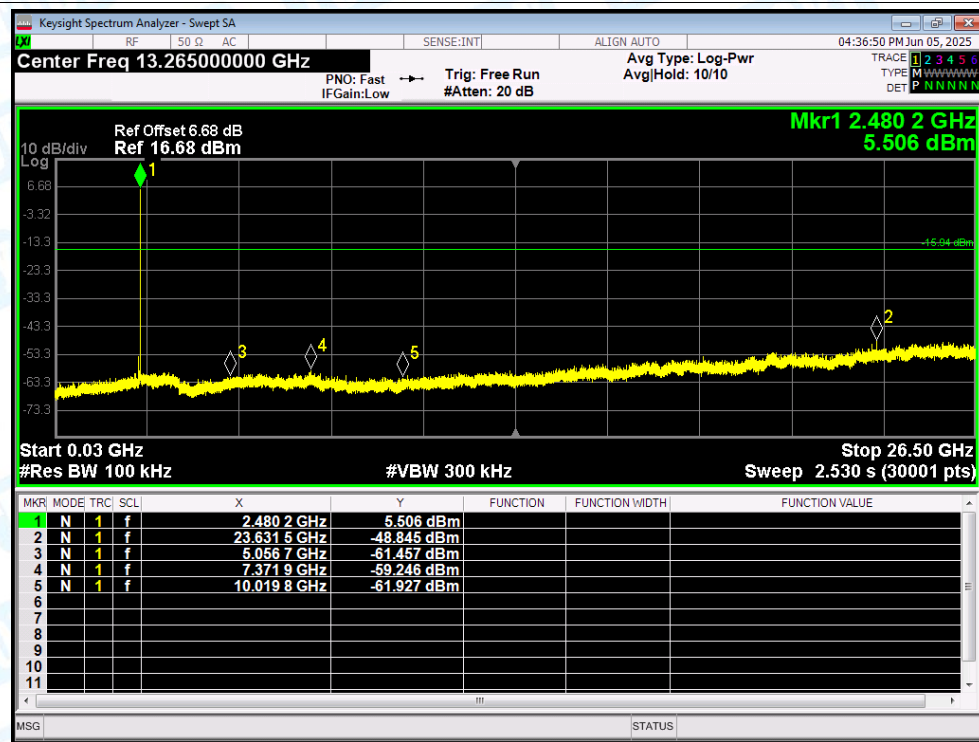
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

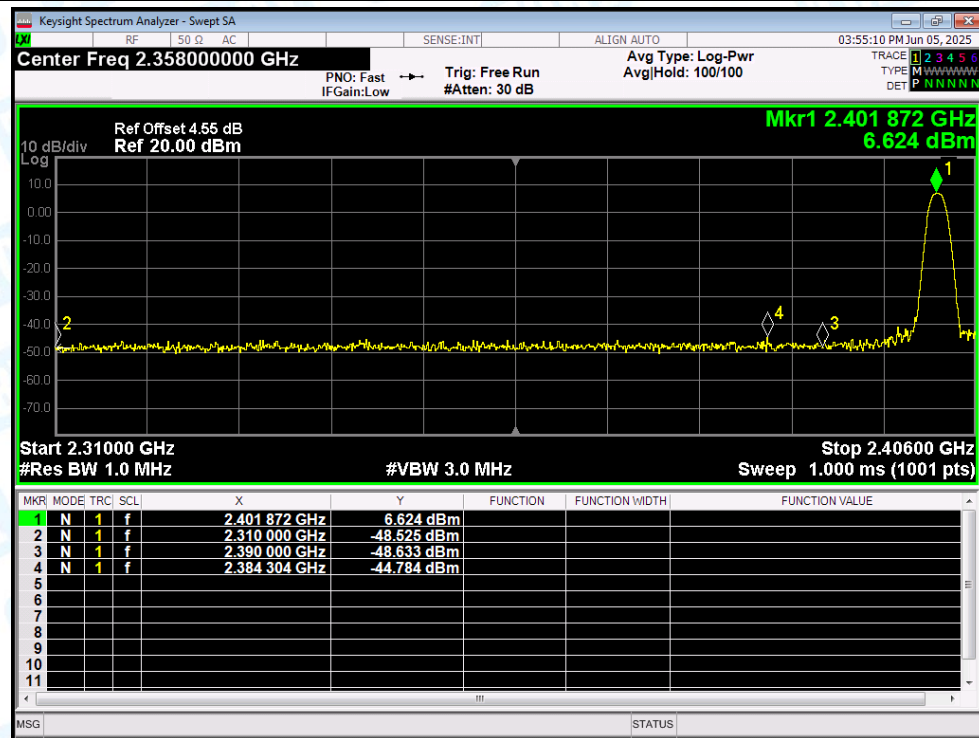


8. Restrict Band

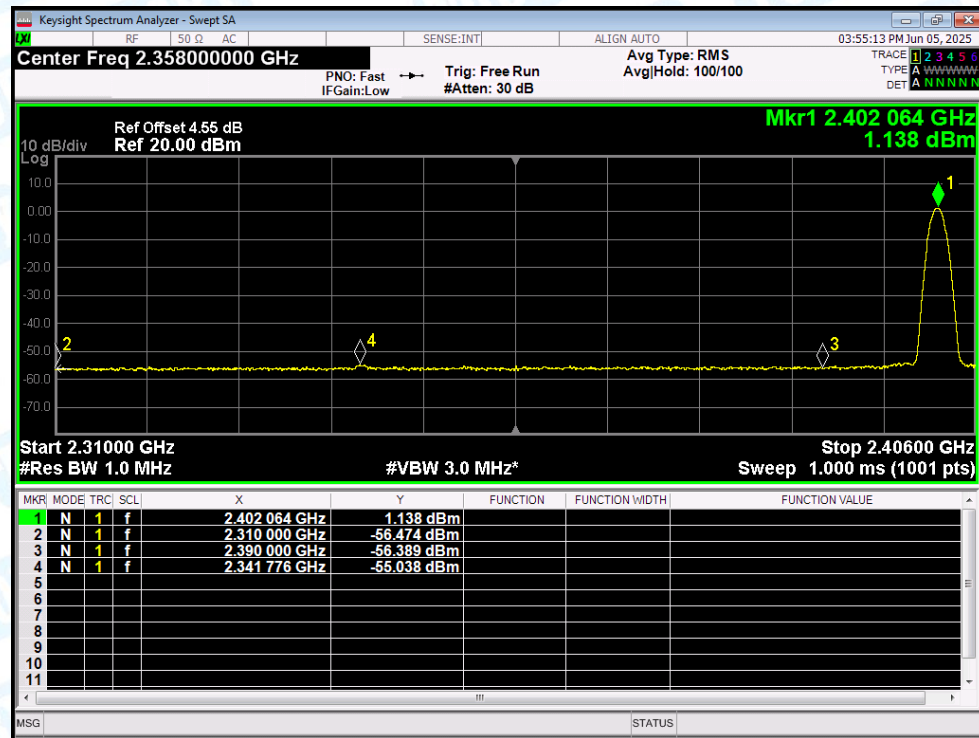
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-48.53	2	-	48.73	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-56.47	2	5.17	45.96	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2384.304	-44.78	2	-	52.48	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2341.776	-55.04	2	5.17	47.39	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-48.63	2	-	48.63	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-56.39	2	5.17	46.04	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	-54.99	2	5.06	47.33	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.632	-42.24	2	-	55.02	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2487.544	-54.08	2	5.06	48.24	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-48.17	2	-	49.09	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-55.15	2	5.06	47.17	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-47.49	2	-	49.77	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-56.7	2	5.06	45.62	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2374.8	-44.94	2	-	52.32	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2342.16	-55.11	2	5.06	47.21	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-47.95	2	-	49.31	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-55.88	2	5.06	46.44	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-45.51	2	-	51.75	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-54.79	2	5.06	47.53	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2487.424	-41.2	2	-	56.06	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.776	-54.03	2	5.06	48.29	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-49.26	2	-	48	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-55.32	2	5.06	47	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-49.4	2	-	47.86	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-56.13	2	4.95	46.08	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2386.608	-44.52	2	-	52.74	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2389.968	-55.16	2	4.95	47.05	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-46.49	2	-	50.77	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-55.16	2	4.95	47.05	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-44.67	2	-	52.59	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-55.06	2	5.06	47.26	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2484.04	-40.7	2	-	56.56	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.944	-53.81	2	5.06	48.51	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-48.05	2	-	49.21	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-55.26	2	5.06	47.06	Average	54	Pass

Test Graphs

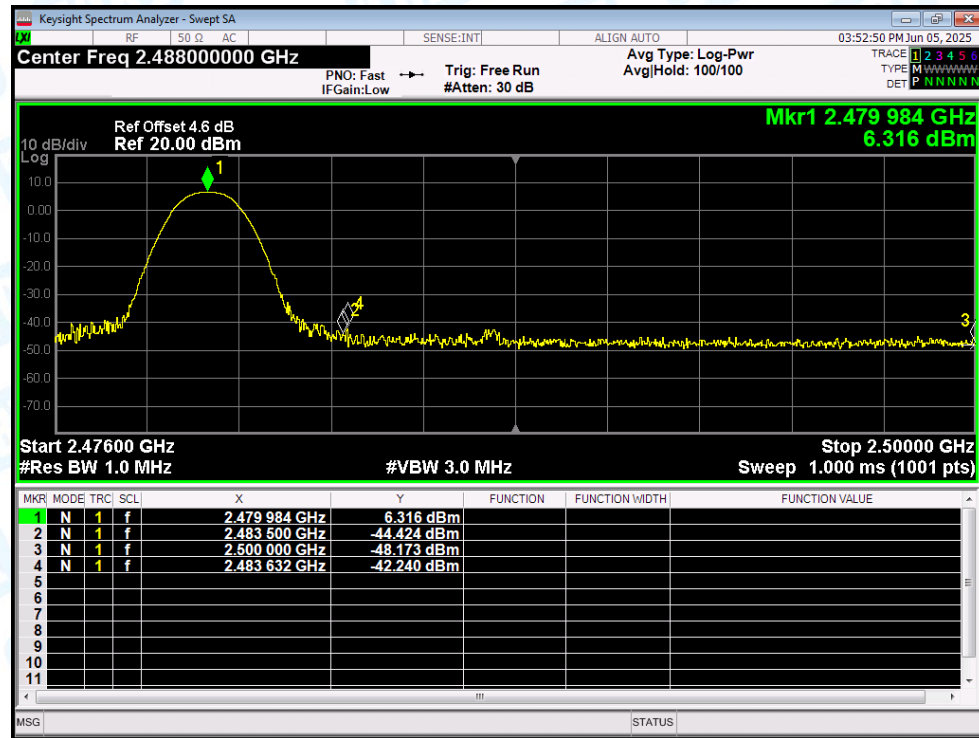
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



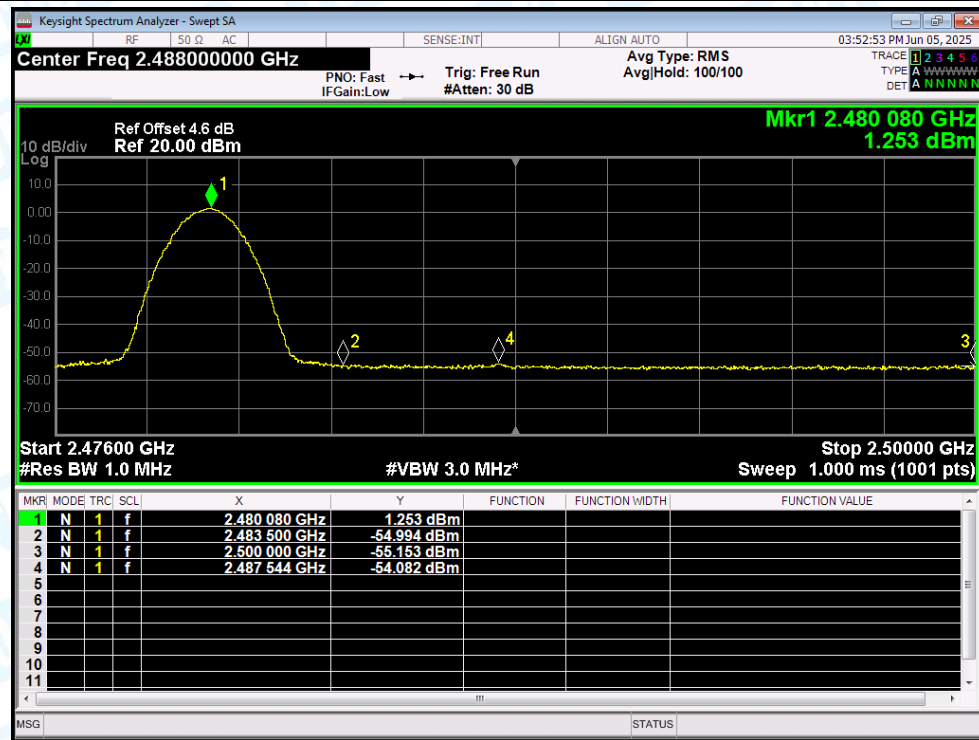
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



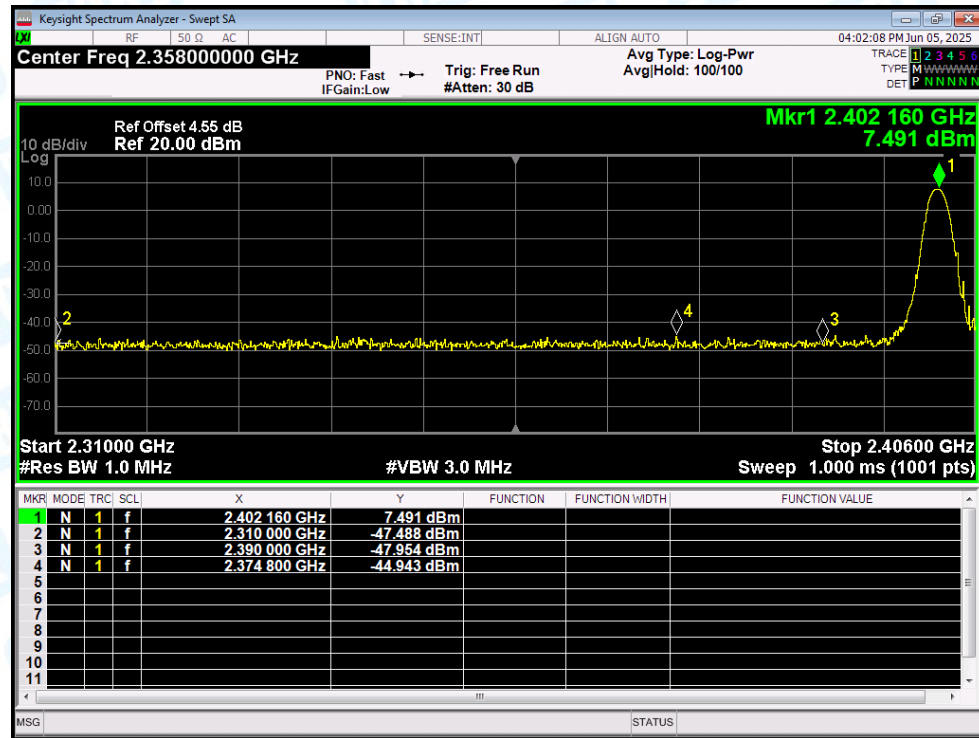
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



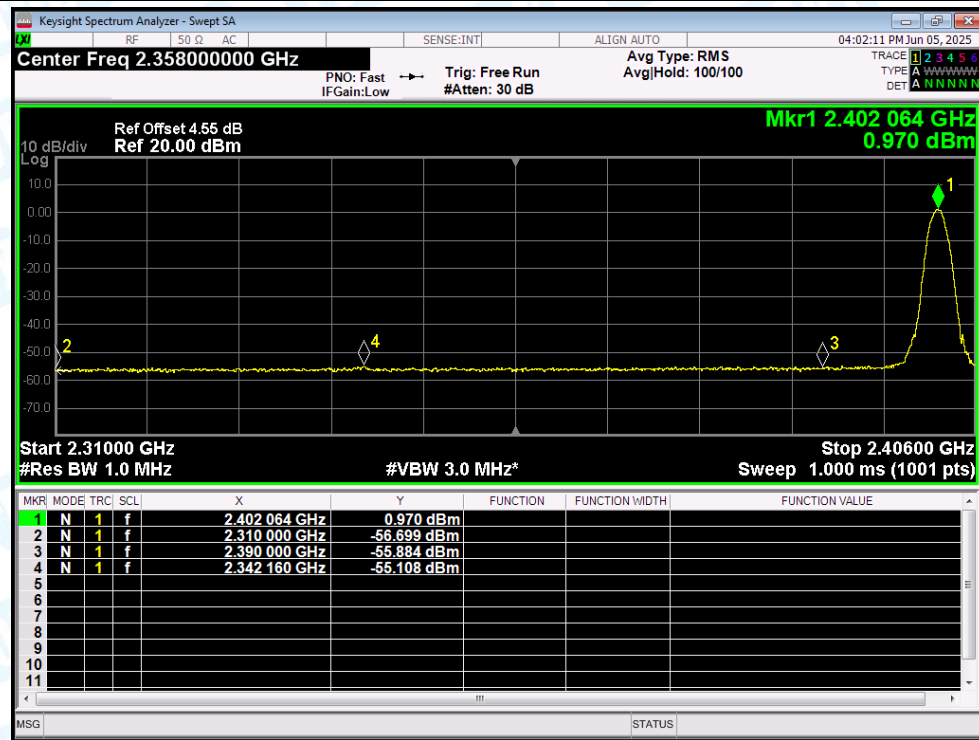
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



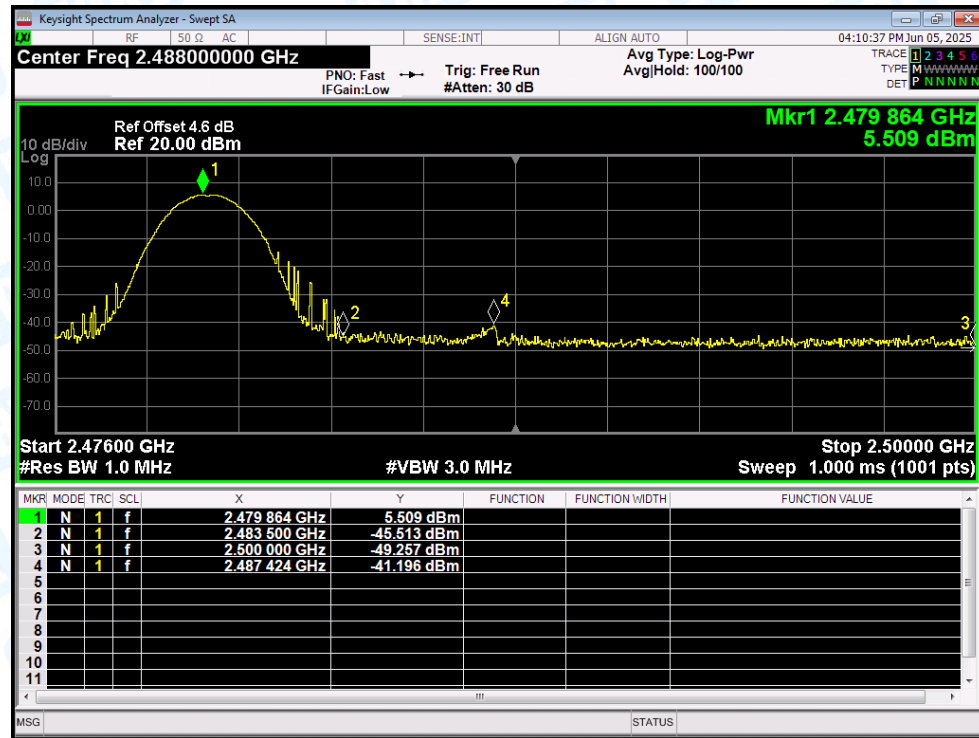
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



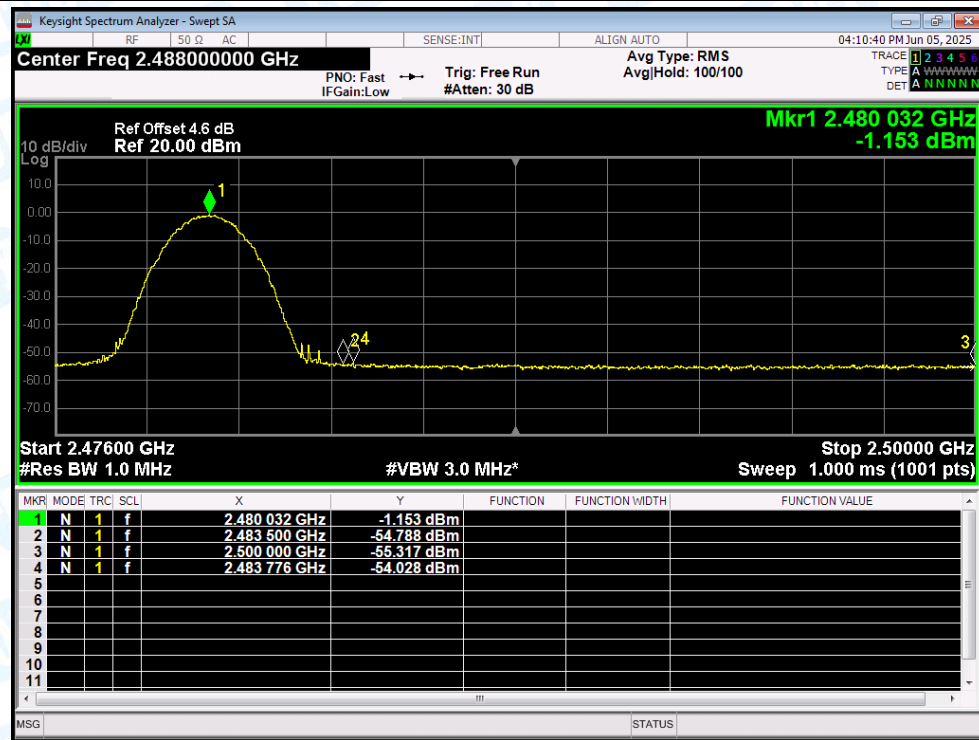
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Average



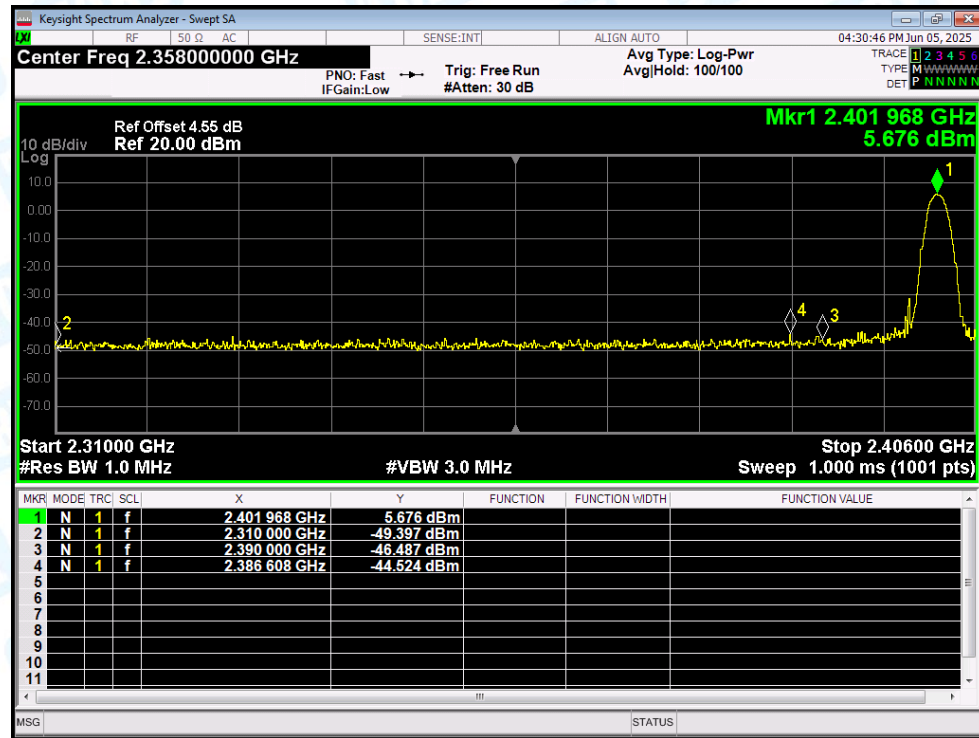
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak



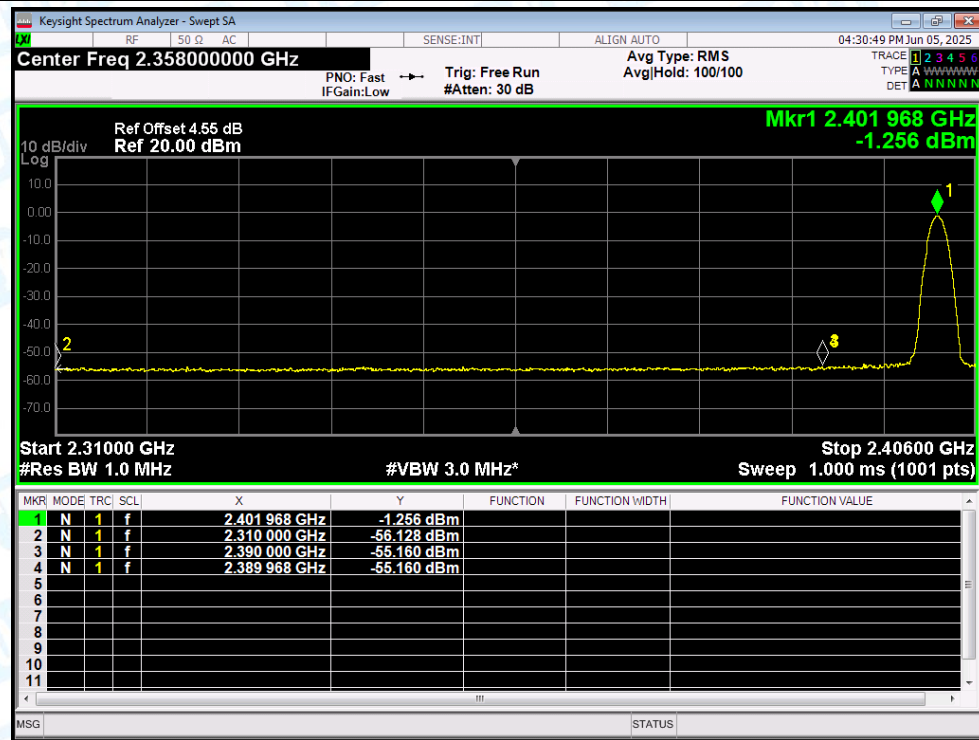
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Average



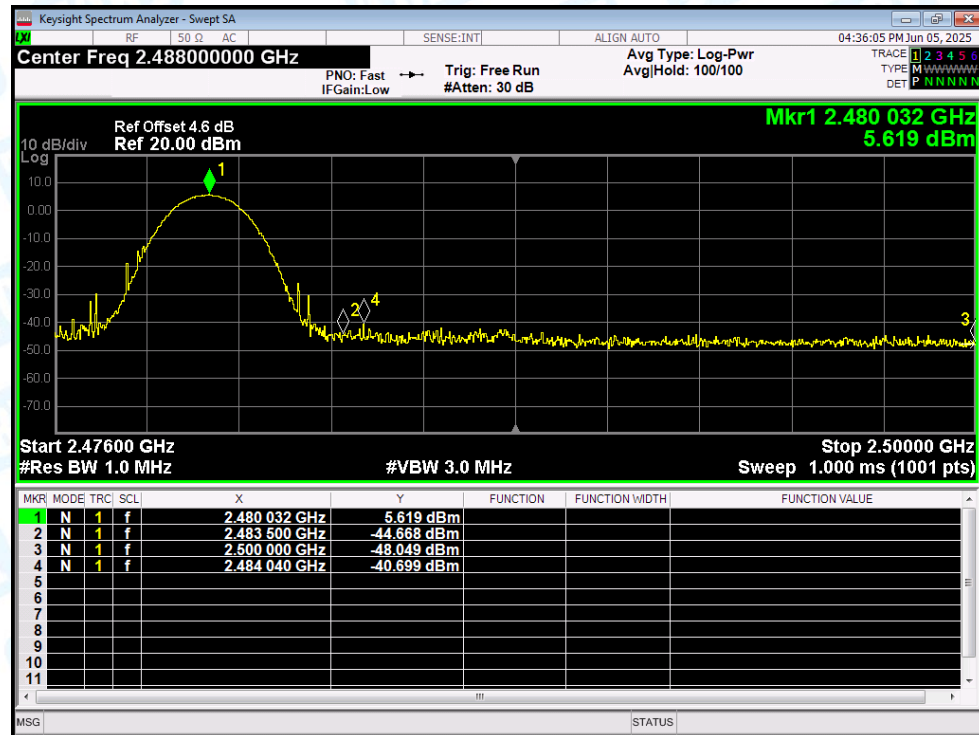
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Peak



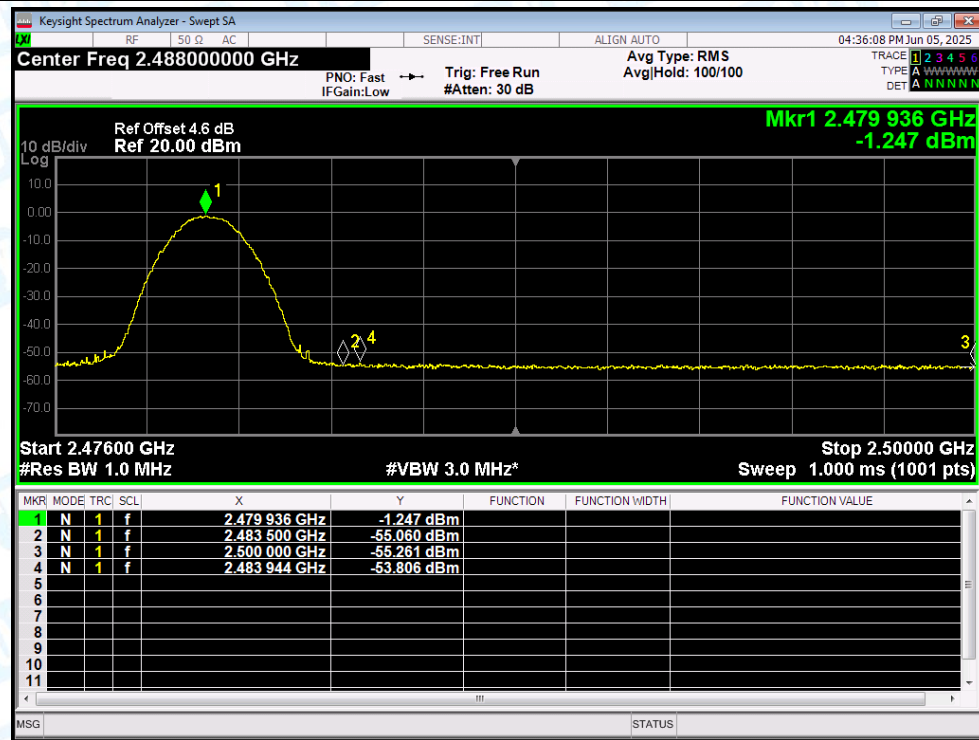
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Average



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



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

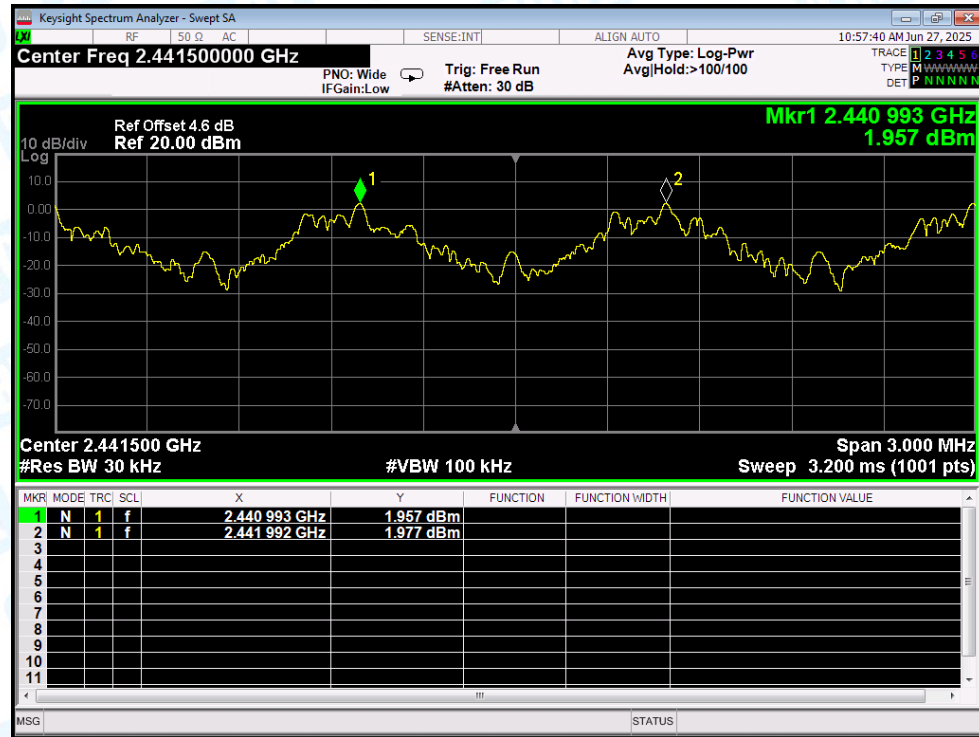


9. Carrier Frequencies Separation

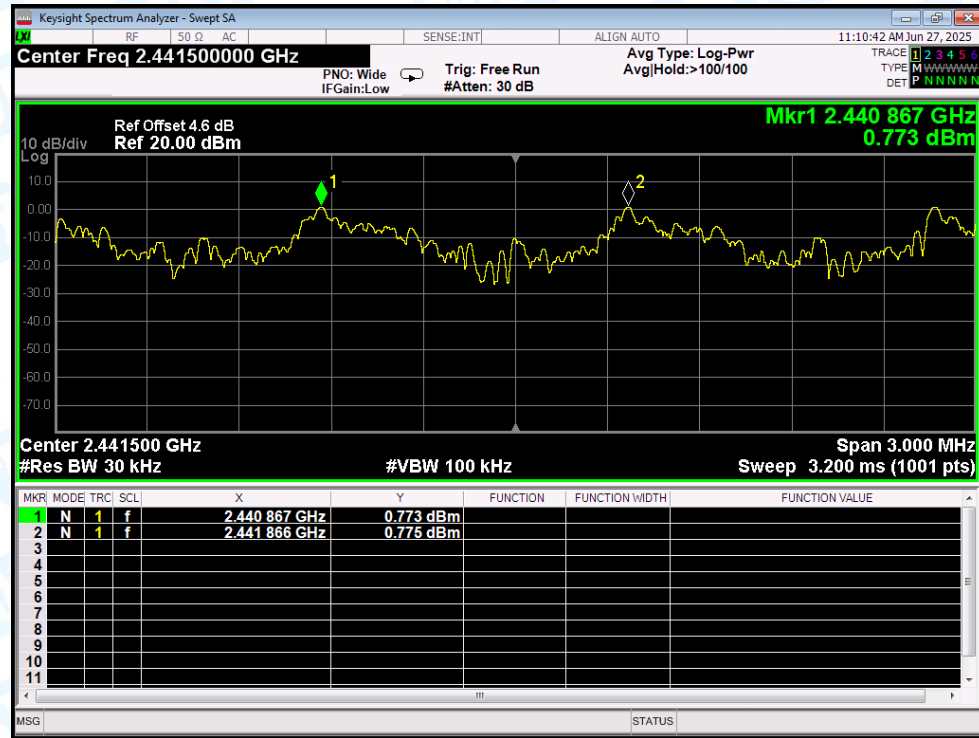
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2440.993	2441.992	0.999	0.633	Pass
NVNT	2-DH1	Ant1	2440.867	2441.866	0.999	0.967	Pass
NVNT	3-DH1	Ant1	2440.831	2441.911	1.08	0.987	Pass

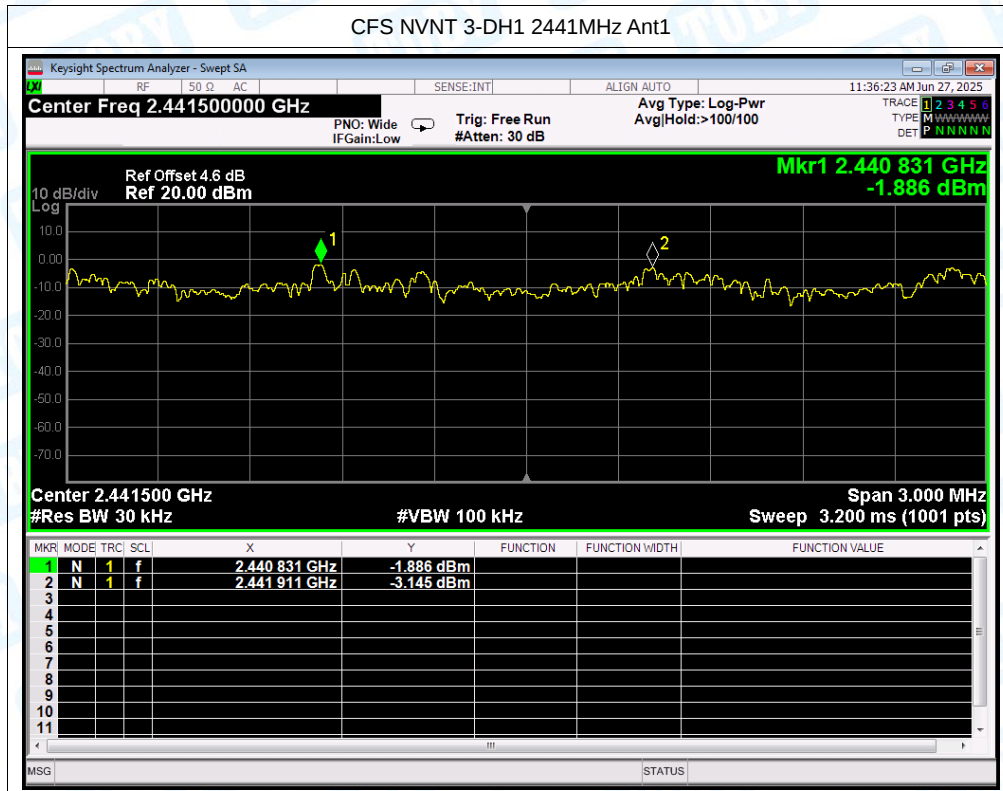
Test Graphs

CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1



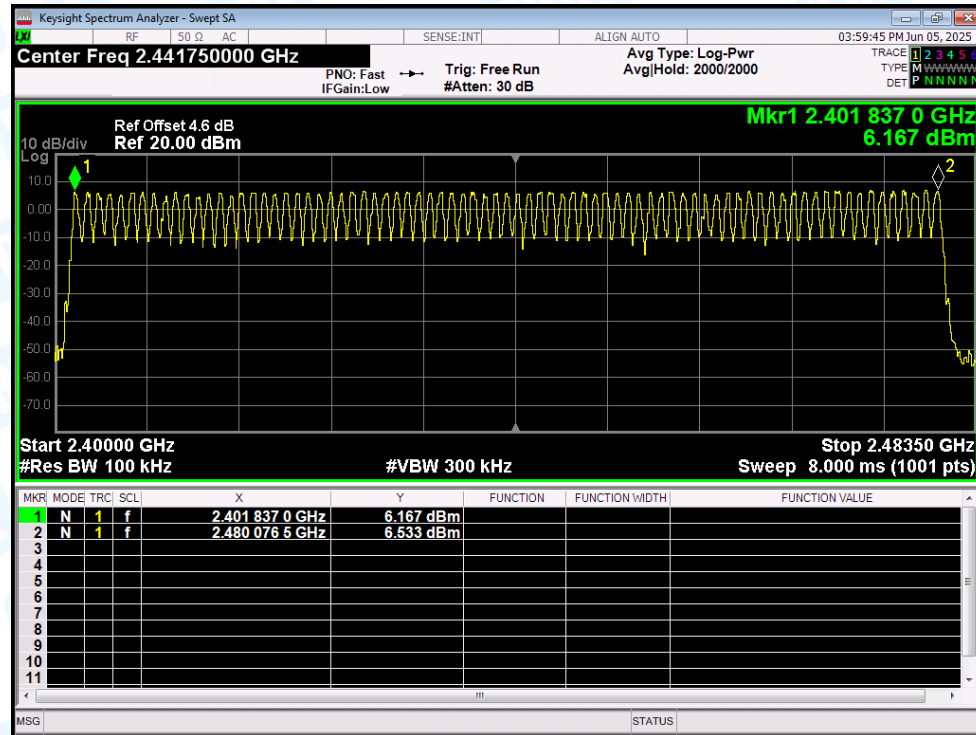


10. Number of Hopping Channel

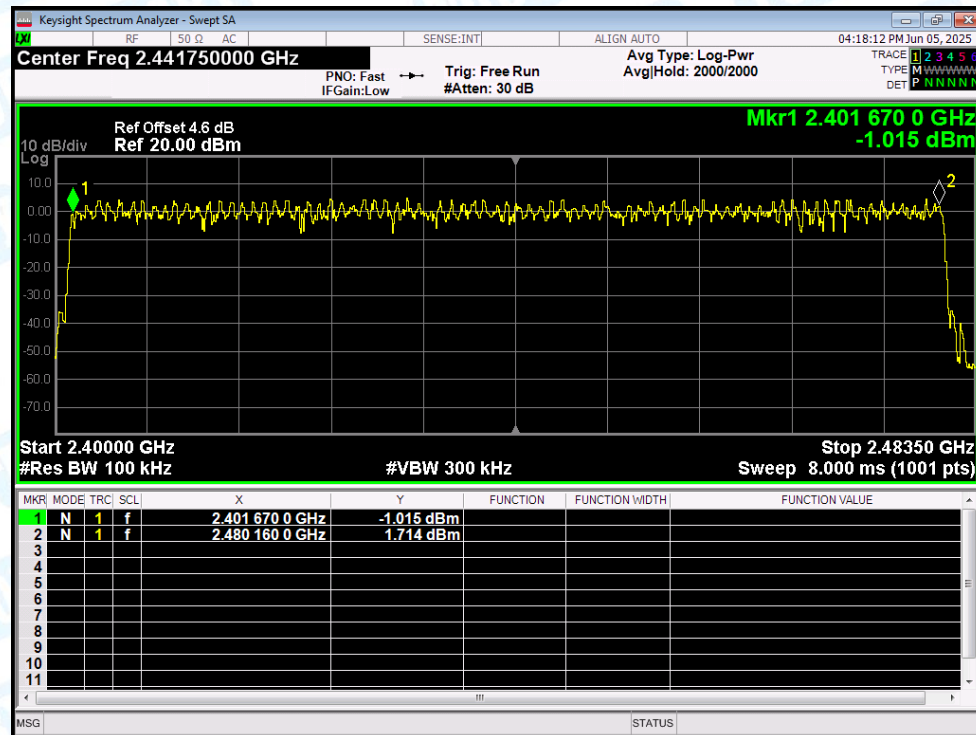
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

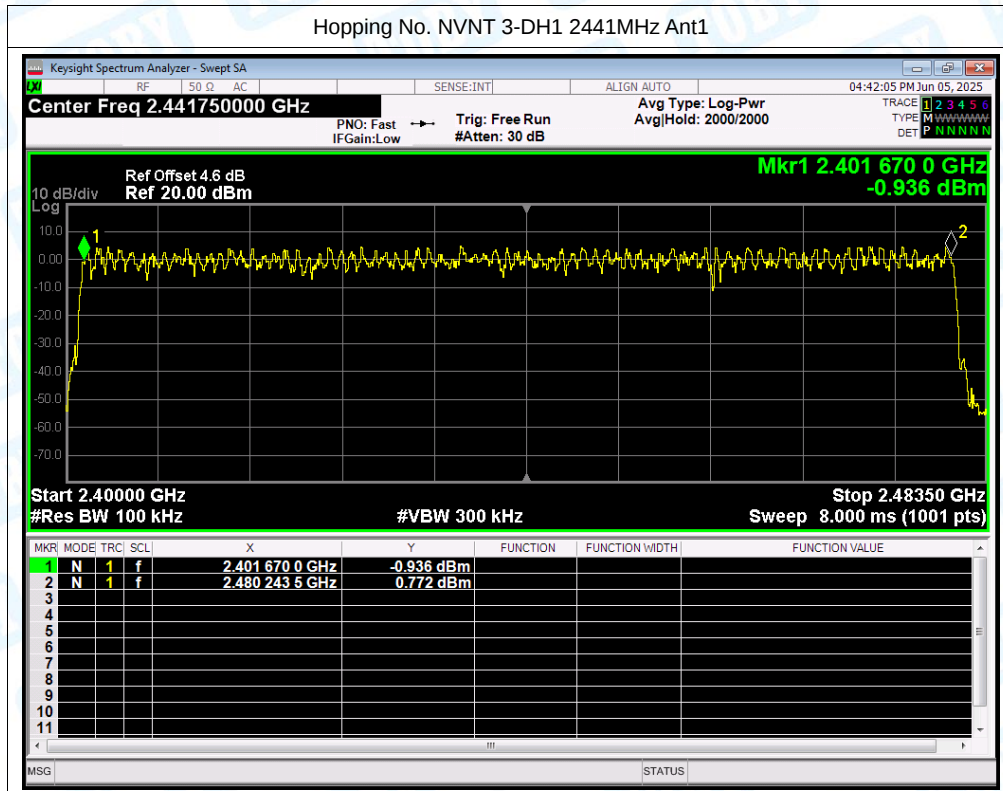
Test Graphs

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1



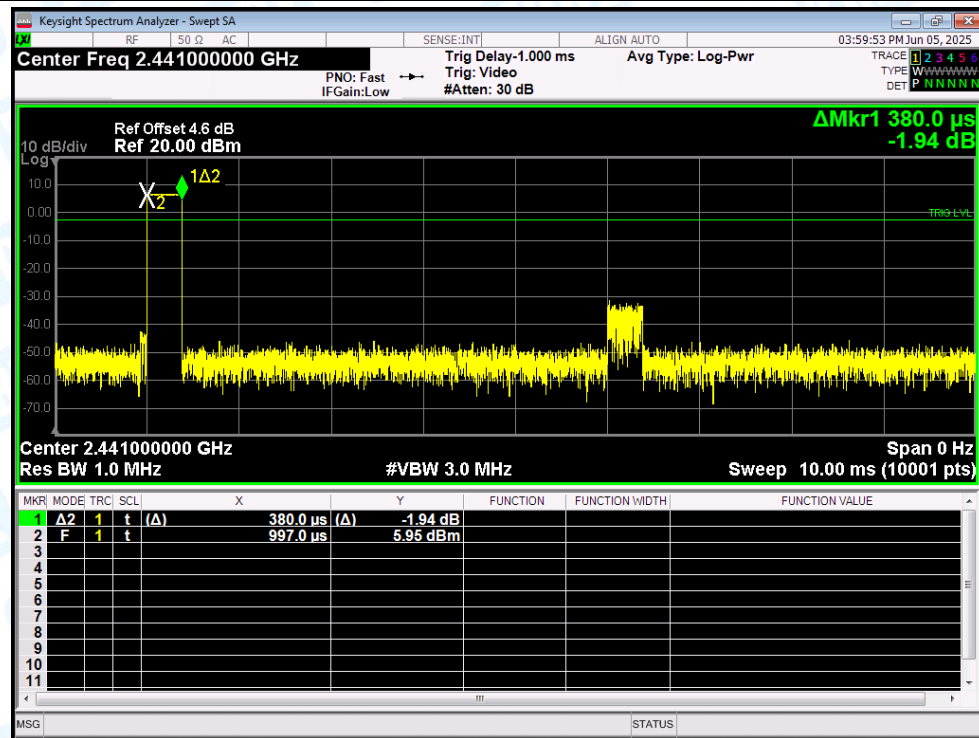


11. Dwell Time

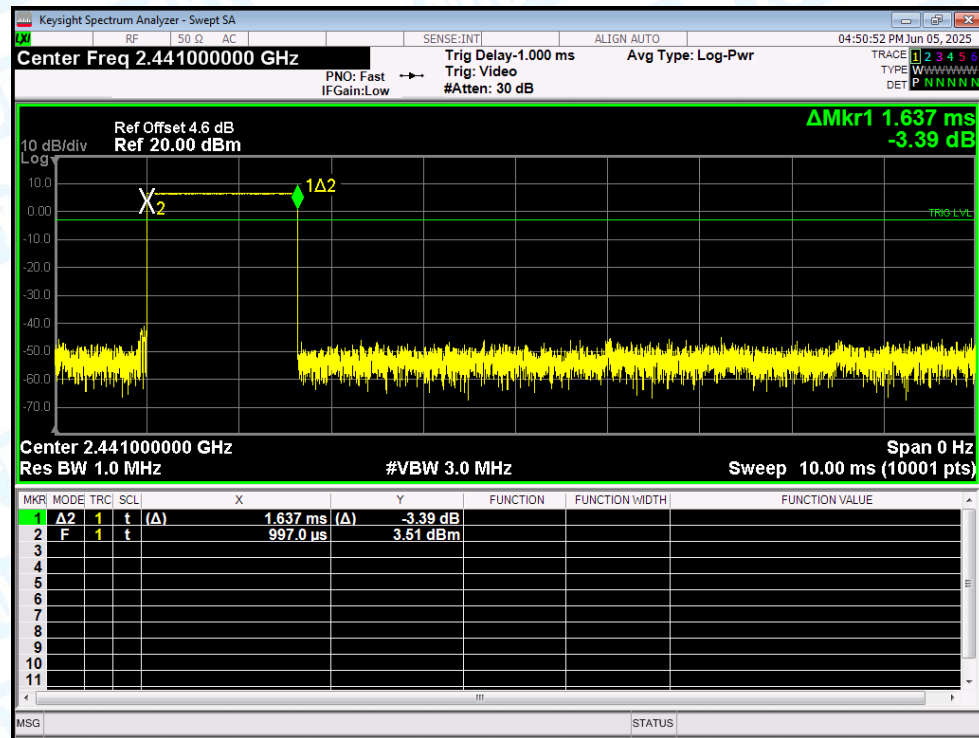
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.38	121.6	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.637	261.92	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.884	307.627	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.389	124.48	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.641	262.56	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.889	308.16	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.389	124.48	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.64	262.4	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.891	308.373	31600	400	Pass

Test Graphs

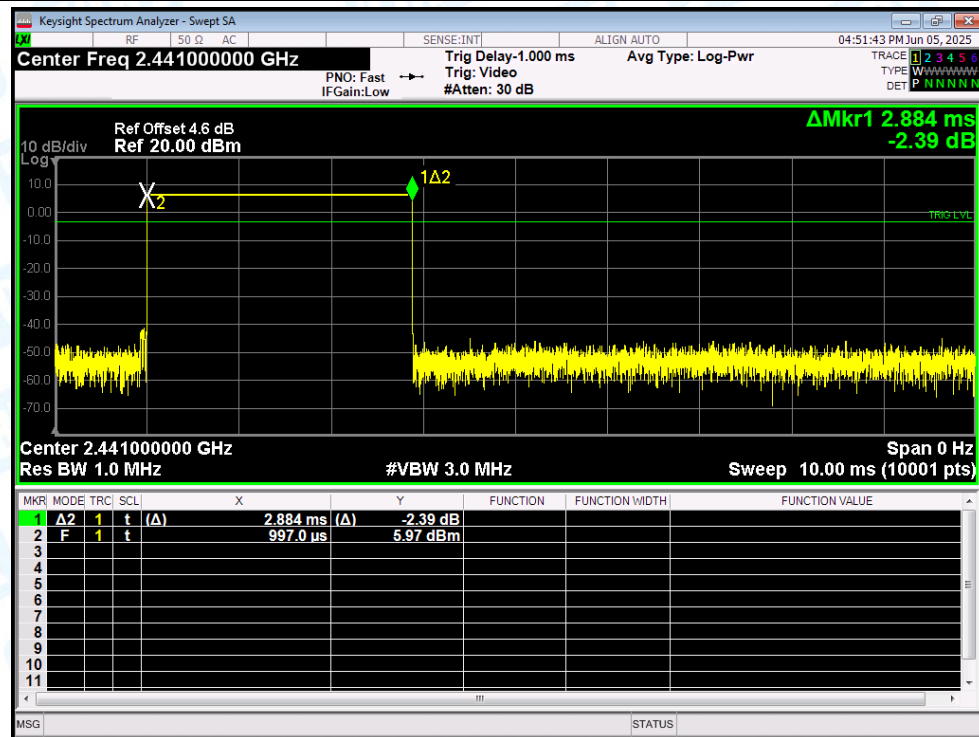
Dwell NVNT 1-DH1 2441MHz Ant1



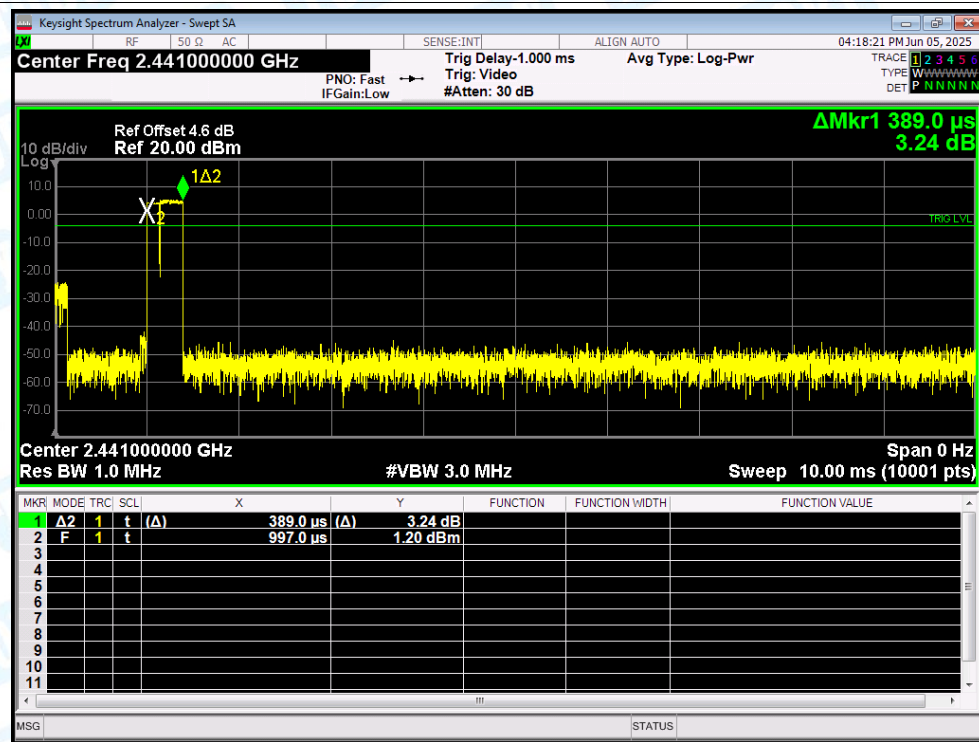
Dwell NVNT 1-DH3 2441MHz Ant1



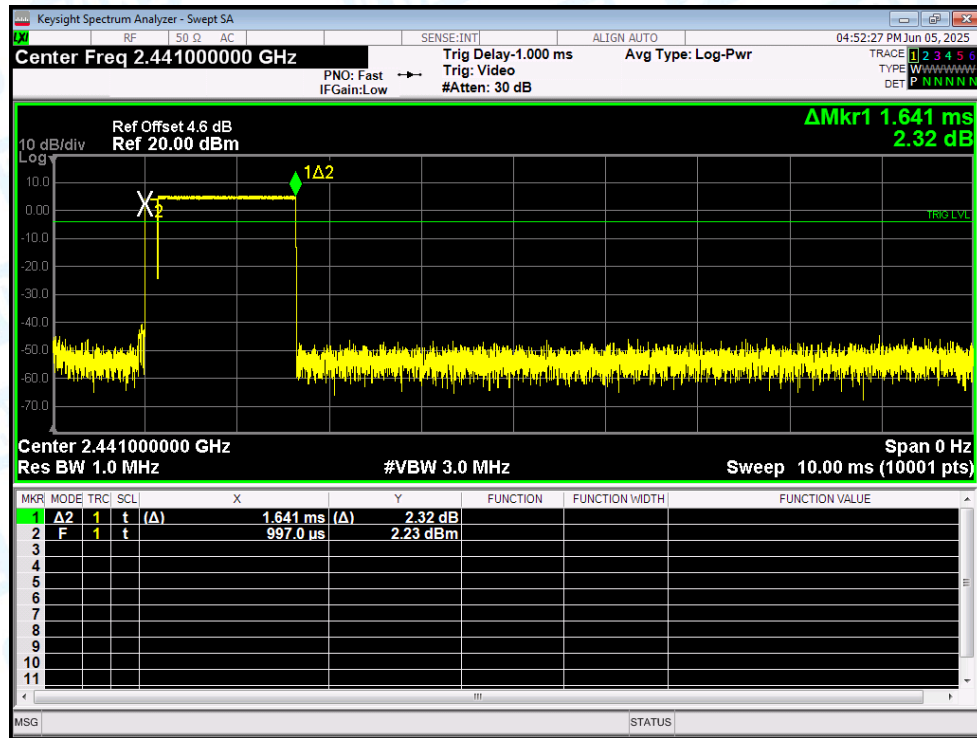
Dwell NVNT 1-DH5 2441MHz Ant1



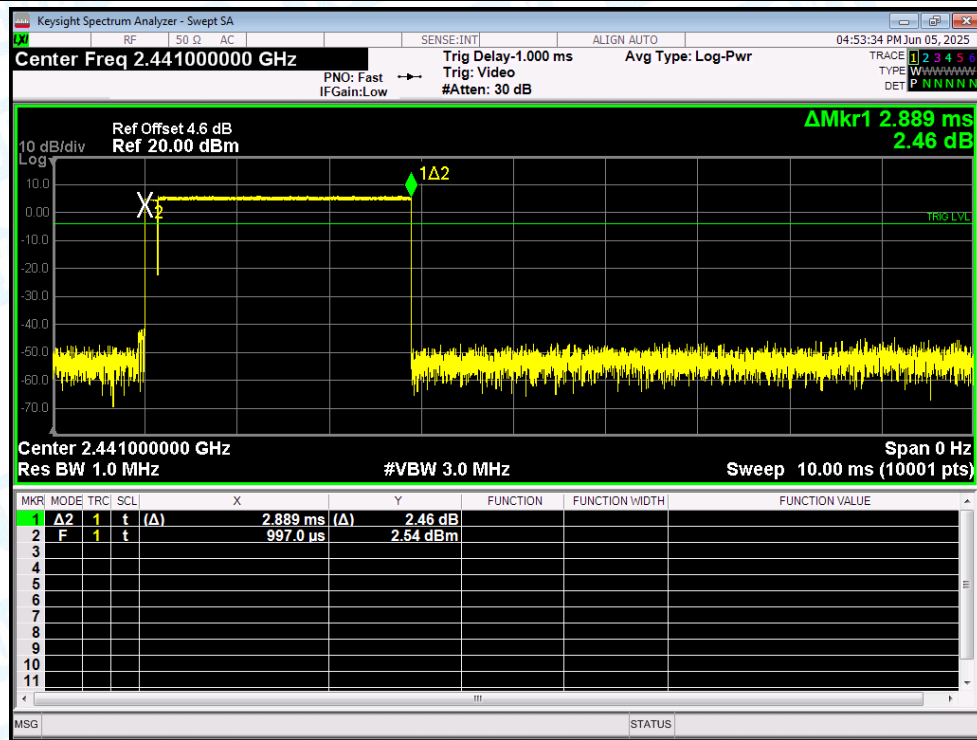
Dwell NVNT 2-DH1 2441MHz Ant1



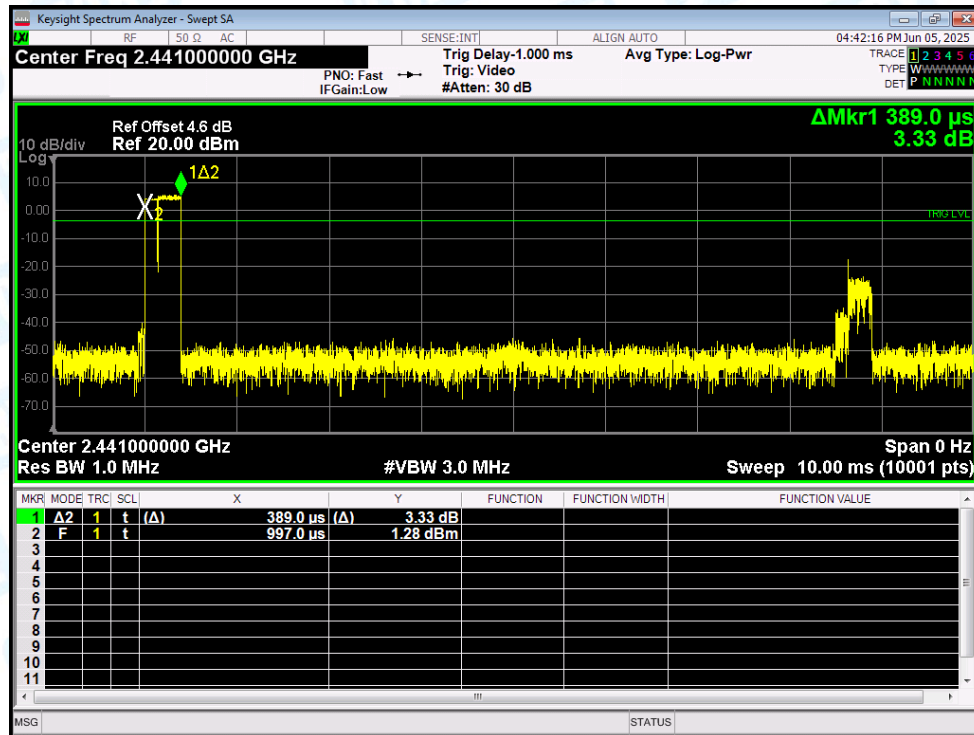
Dwell NVNT 2-DH3 2441MHz Ant1



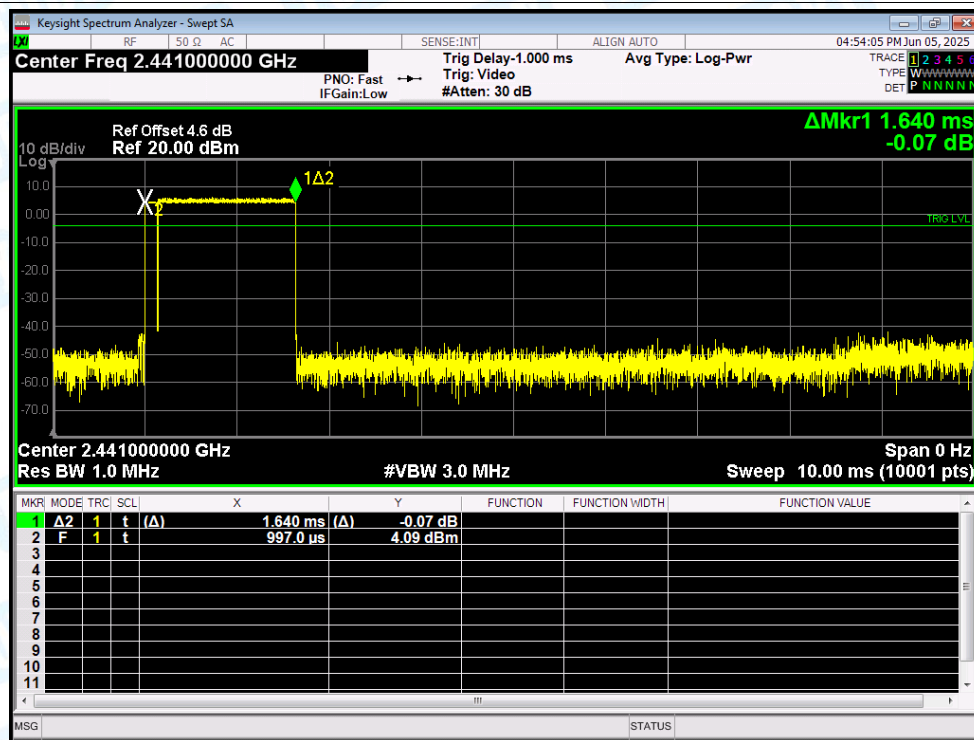
Dwell NVNT 2-DH5 2441MHz Ant1

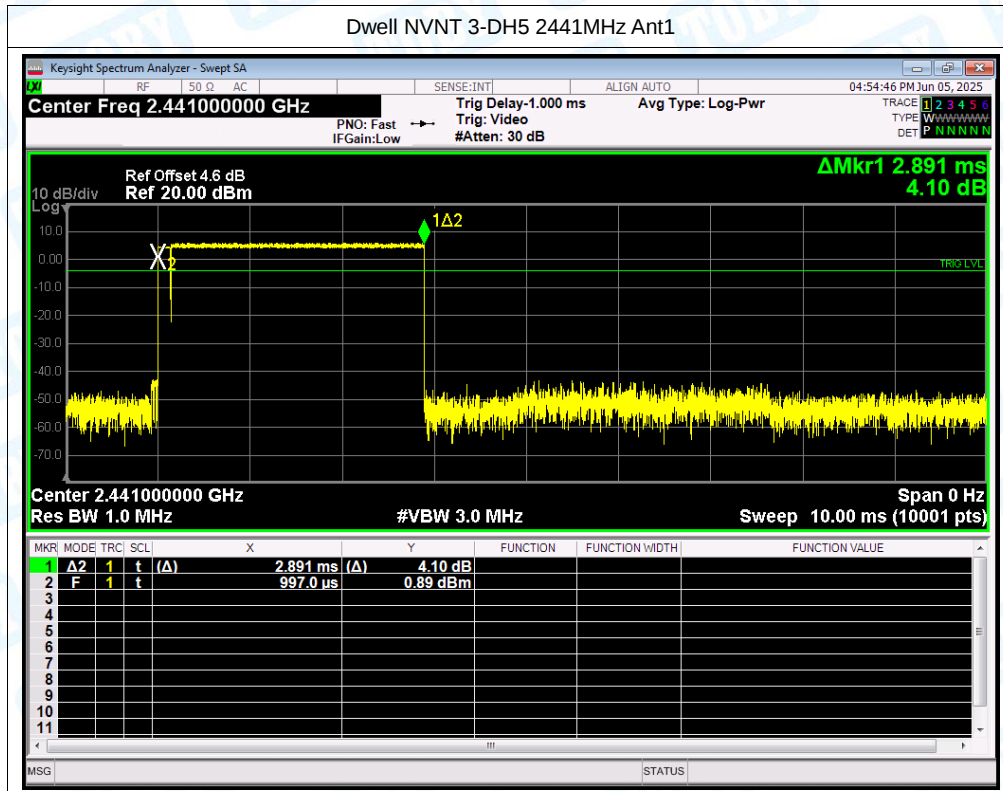


Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1





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