

RF Test Data for Bluetooth (Conducted Measurements)

General Description of EUT	
Product Name:	Tablet
Test Model:	B7
Sample ID:	HC-C-202503-3450-03-01-2#
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	DC 3.85V
Test Engineer:	Rick. chen
Note: For a more detailed features description, please refer to the report TBR-C-202503-3450-11 The report only show the worst case data.	

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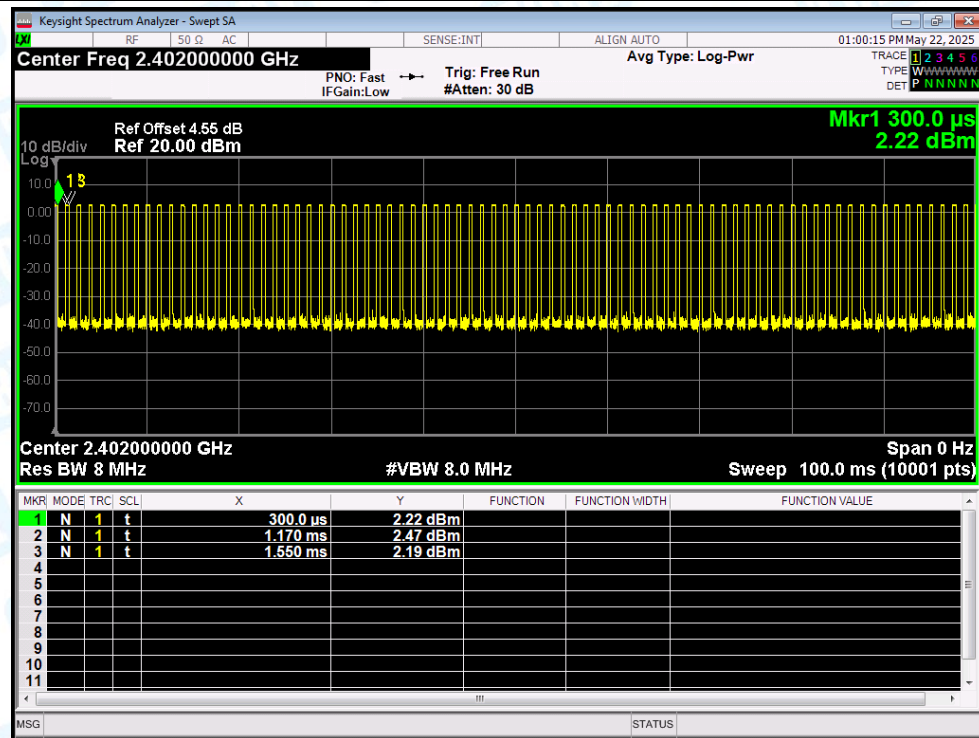
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1. Duty Cycle

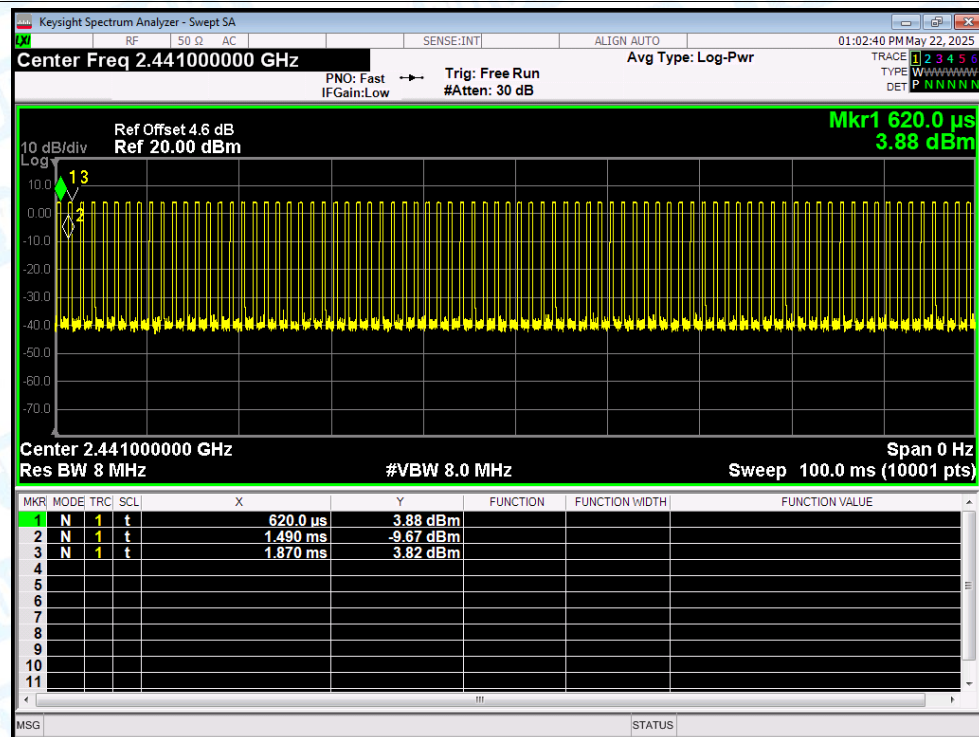
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	30.4	5.17	2.63
NVNT	1-DH1	2441	Ant1	30.4	5.17	2.63
NVNT	1-DH1	2480	Ant1	30.4	5.17	2.63
NVNT	2-DH1	2402	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2441	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2480	Ant1	31.2	5.06	2.56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

Test Graphs

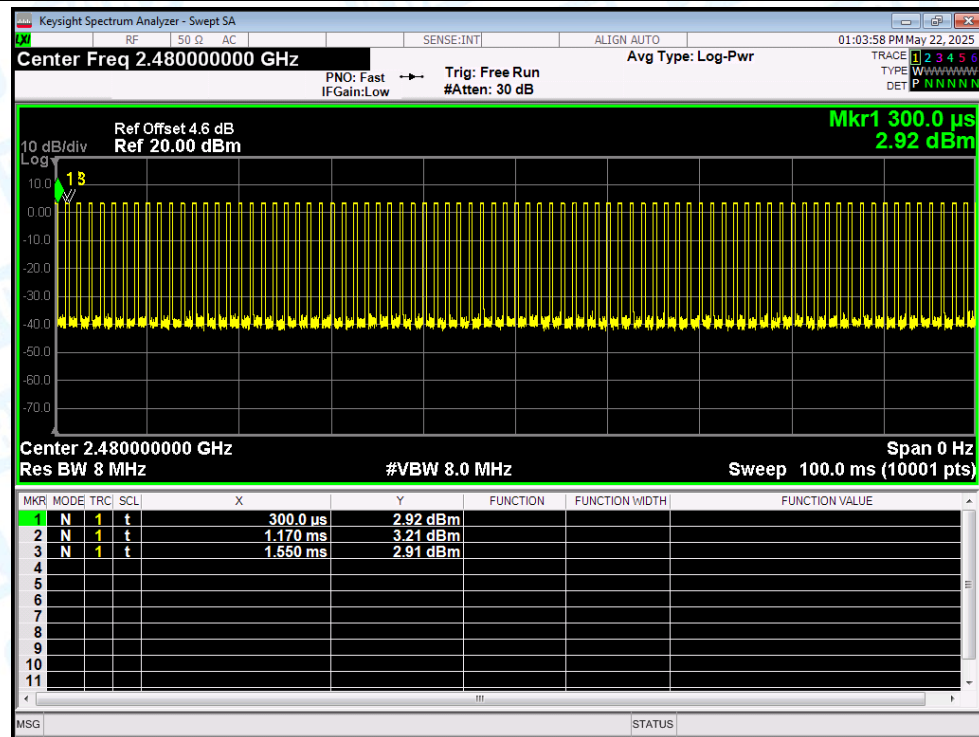
Duty Cycle NVNT 1-DH1 2402MHz Ant1



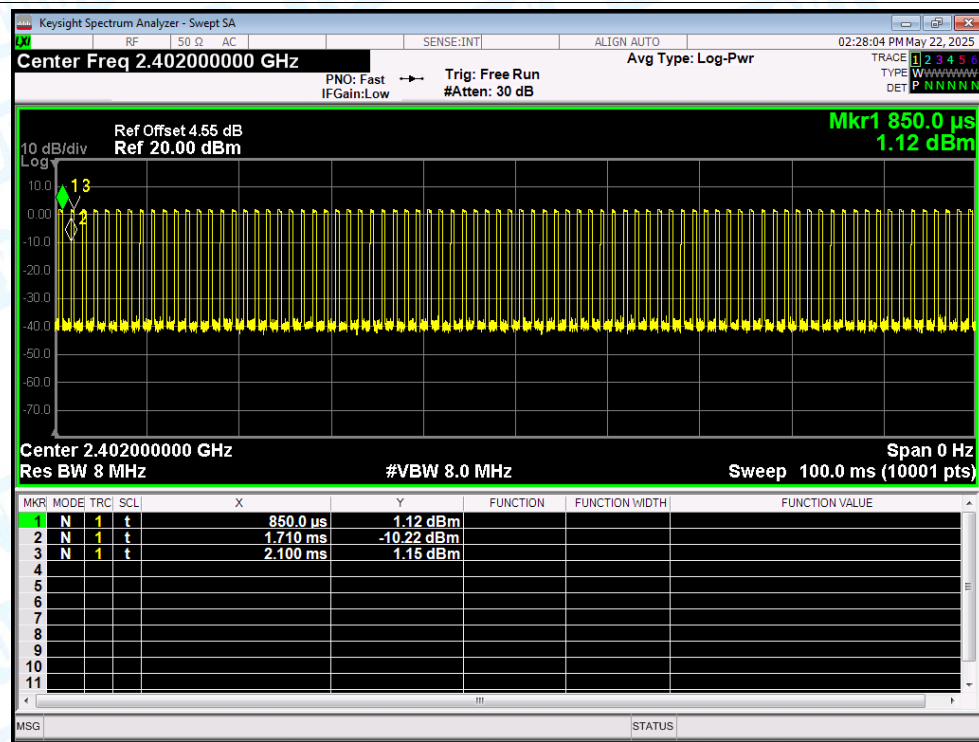
Duty Cycle NVNT 1-DH1 2441MHz Ant1



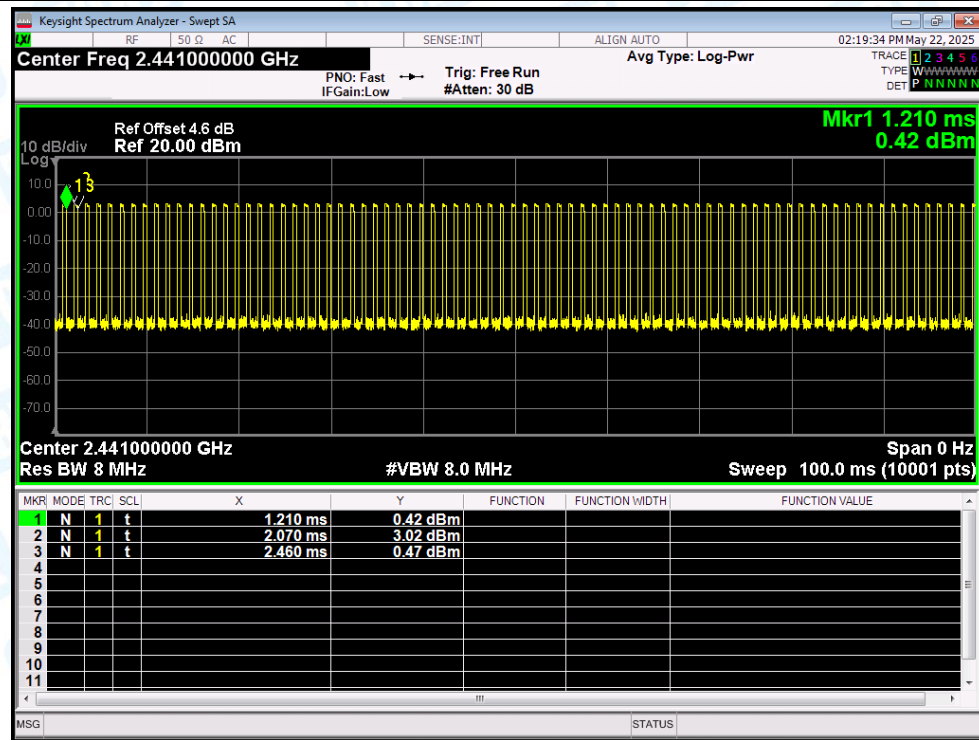
Duty Cycle NVNT 1-DH1 2480MHz Ant1



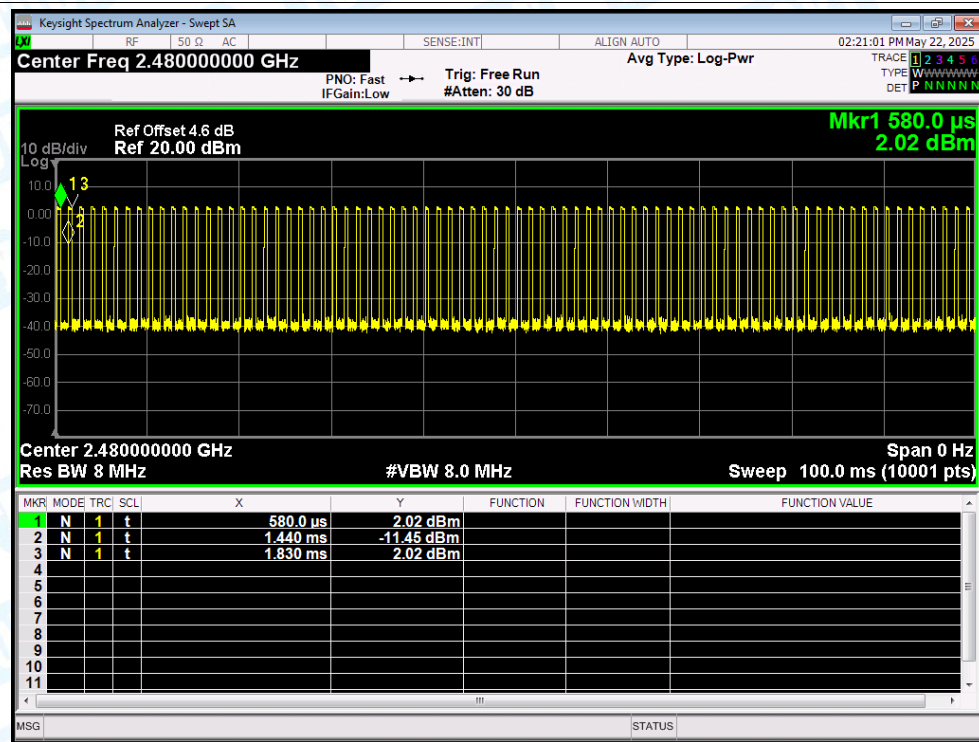
Duty Cycle NVNT 2-DH1 2402MHz Ant1



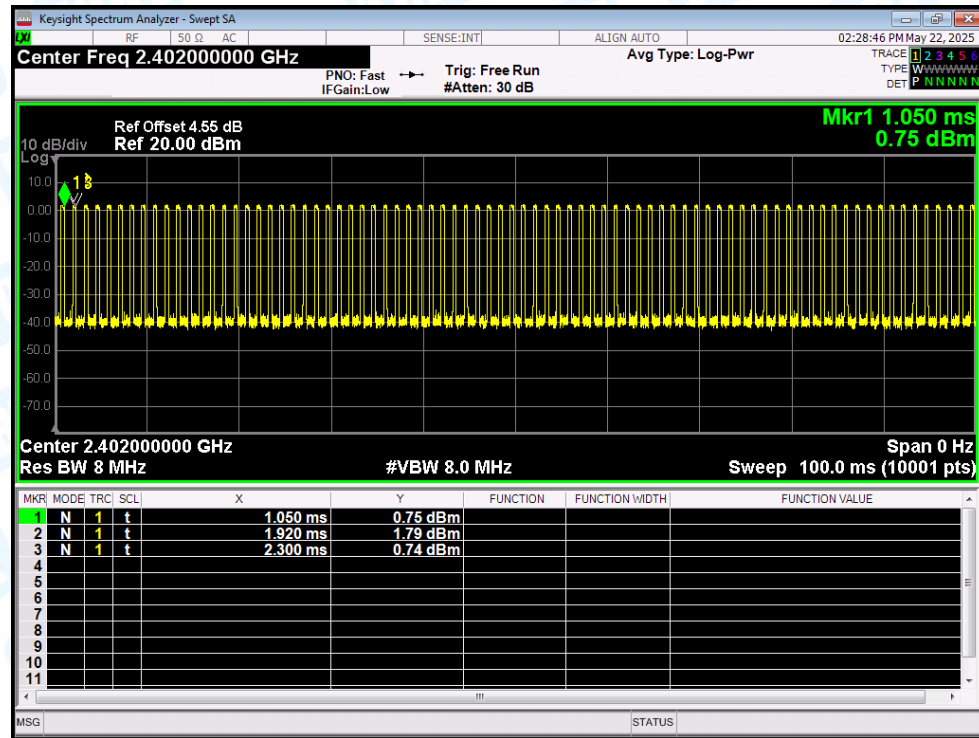
Duty Cycle NVNT 2-DH1 2441MHz Ant1



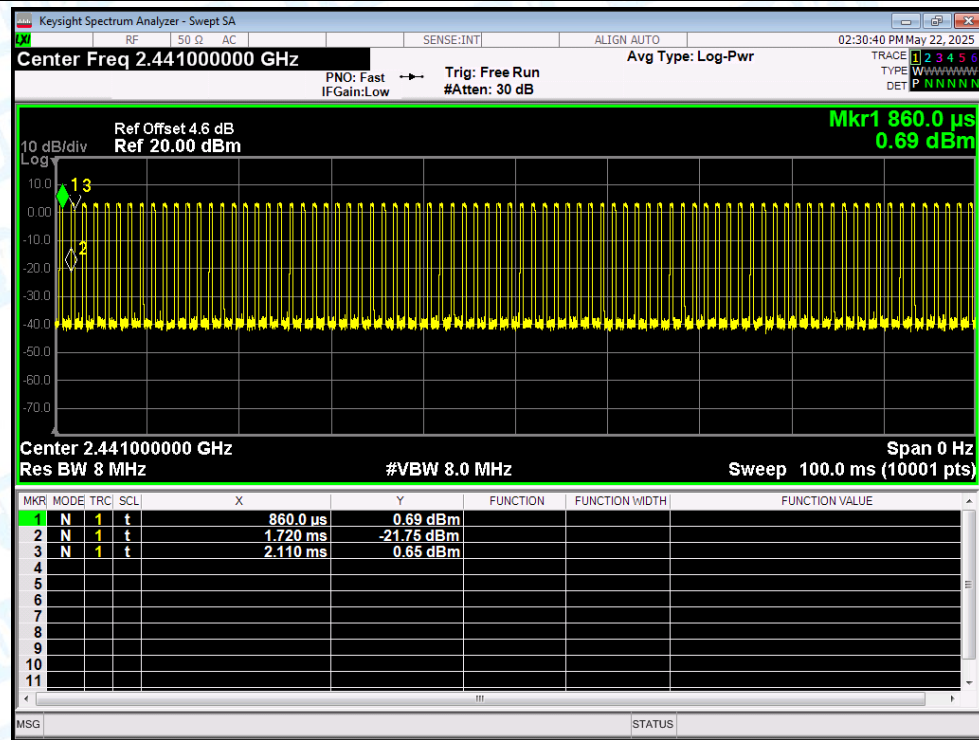
Duty Cycle NVNT 2-DH1 2480MHz Ant1

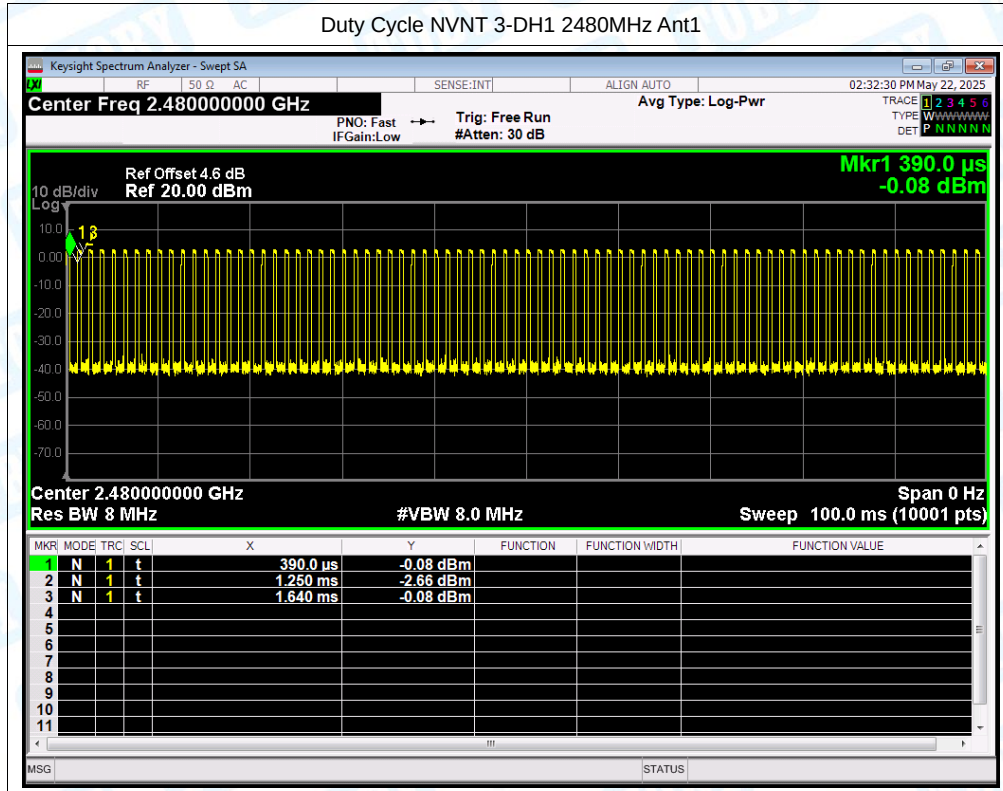


Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1



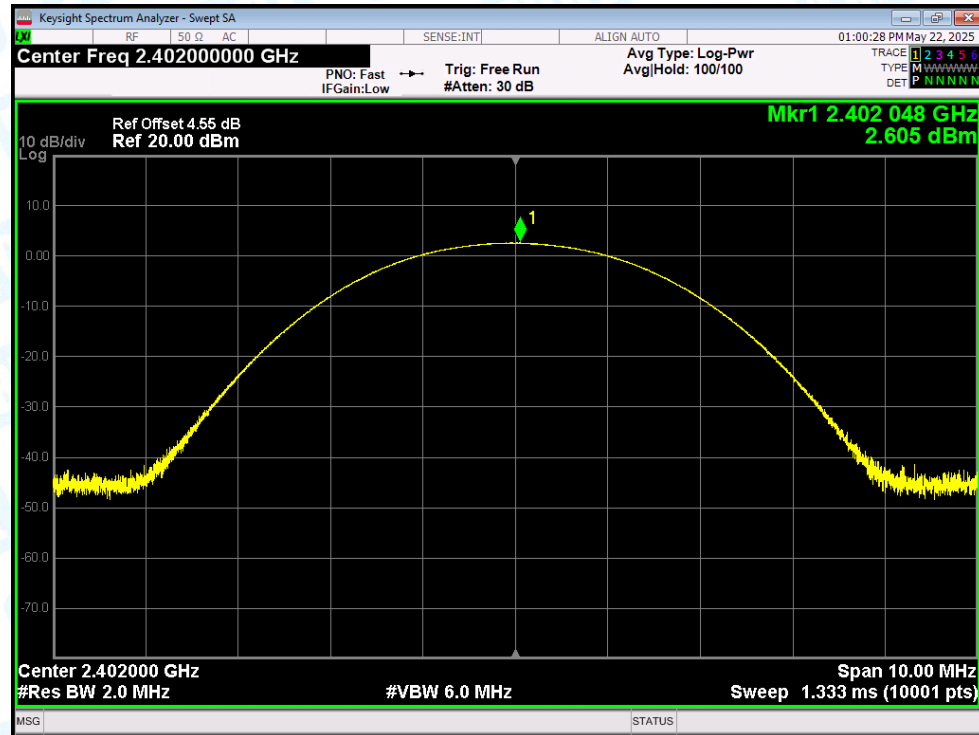


2. Maximum Conducted Output Power

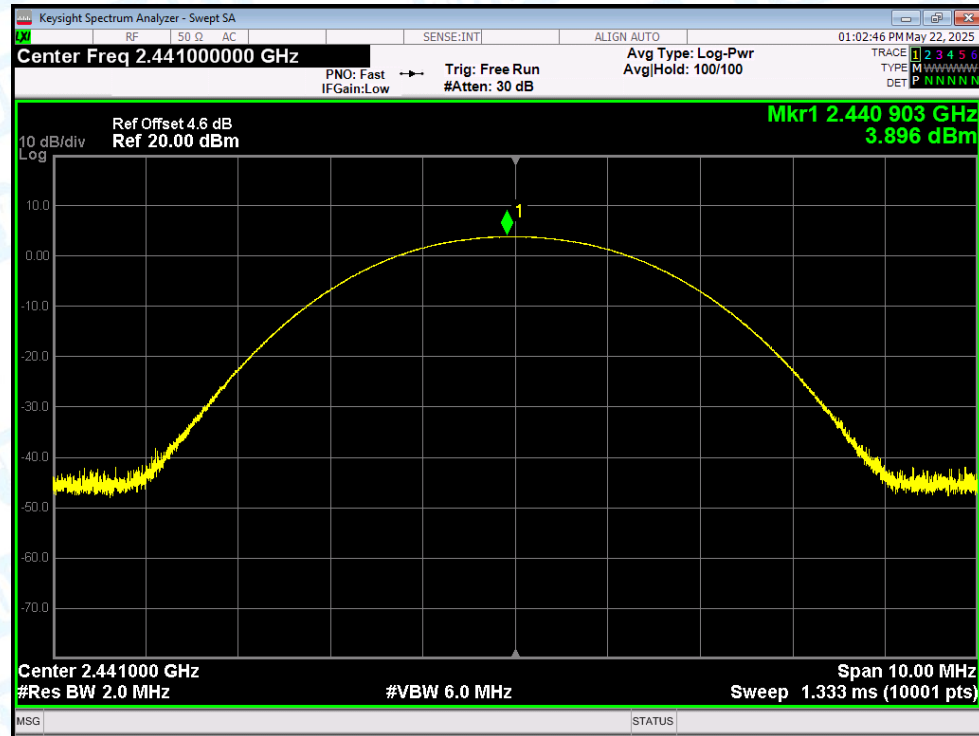
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	2.605	21	Pass
NVNT	1-DH1	2441	Ant1	3.896	21	Pass
NVNT	1-DH1	2480	Ant1	3.268	21	Pass
NVNT	2-DH1	2402	Ant1	1.743	21	Pass
NVNT	2-DH1	2441	Ant1	3.094	21	Pass
NVNT	2-DH1	2480	Ant1	2.567	21	Pass
NVNT	3-DH1	2402	Ant1	1.867	21	Pass
NVNT	3-DH1	2441	Ant1	3.156	21	Pass
NVNT	3-DH1	2480	Ant1	2.711	21	Pass

Test Graphs

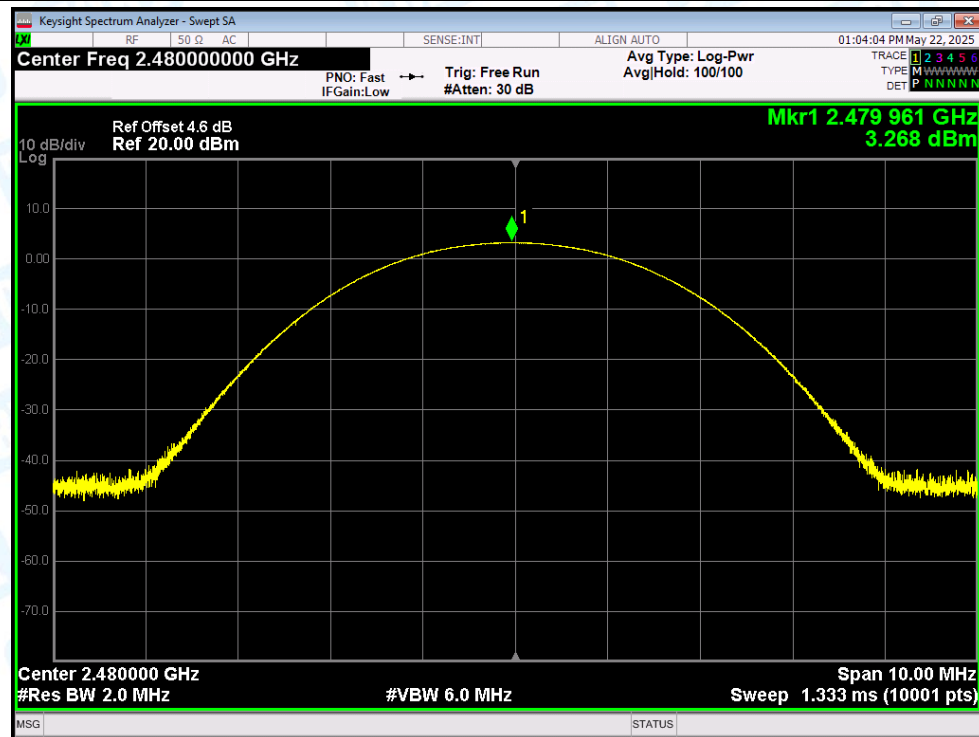
Power NVNT 1-DH1 2402MHz Ant1



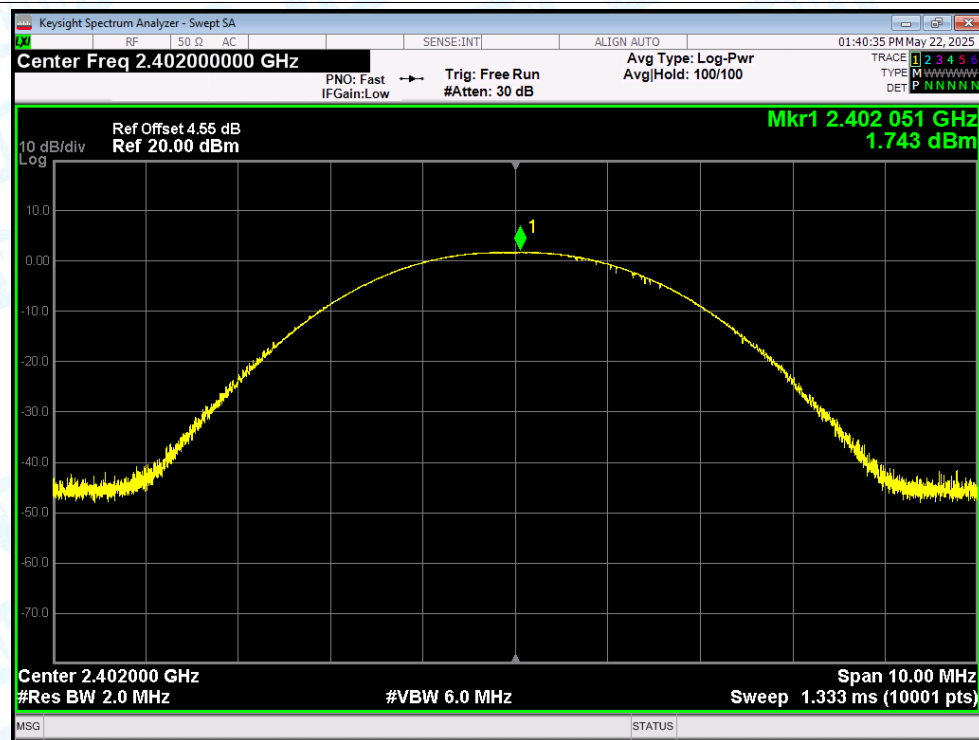
Power NVNT 1-DH1 2441MHz Ant1



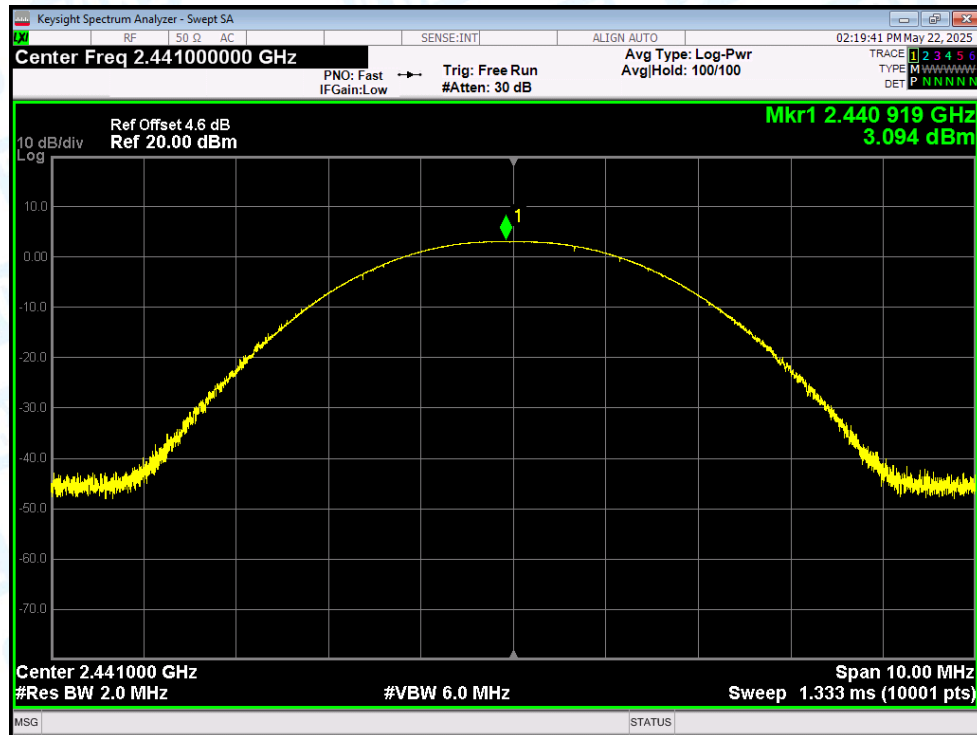
Power NVNT 1-DH1 2480MHz Ant1



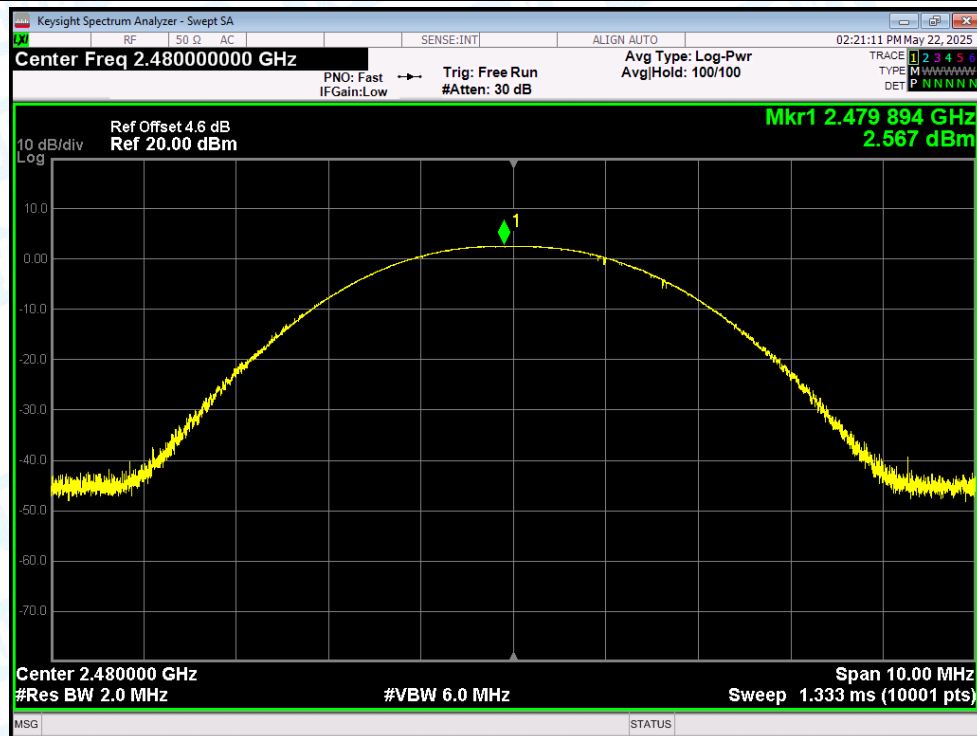
Power NVNT 2-DH1 2402MHz Ant1



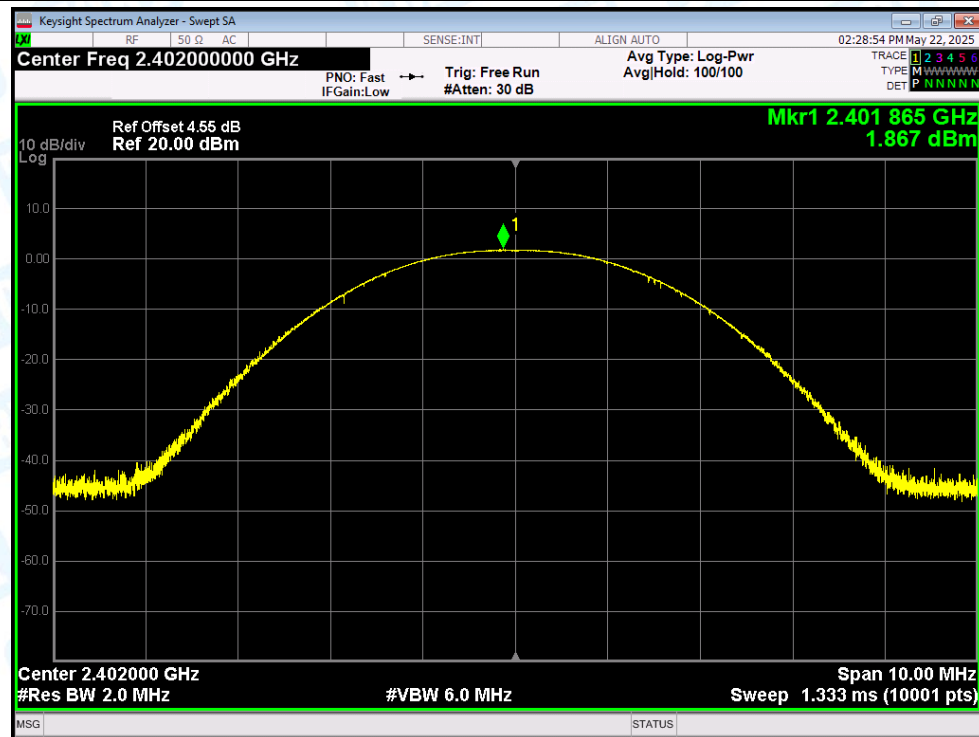
Power NVNT 2-DH1 2441MHz Ant1



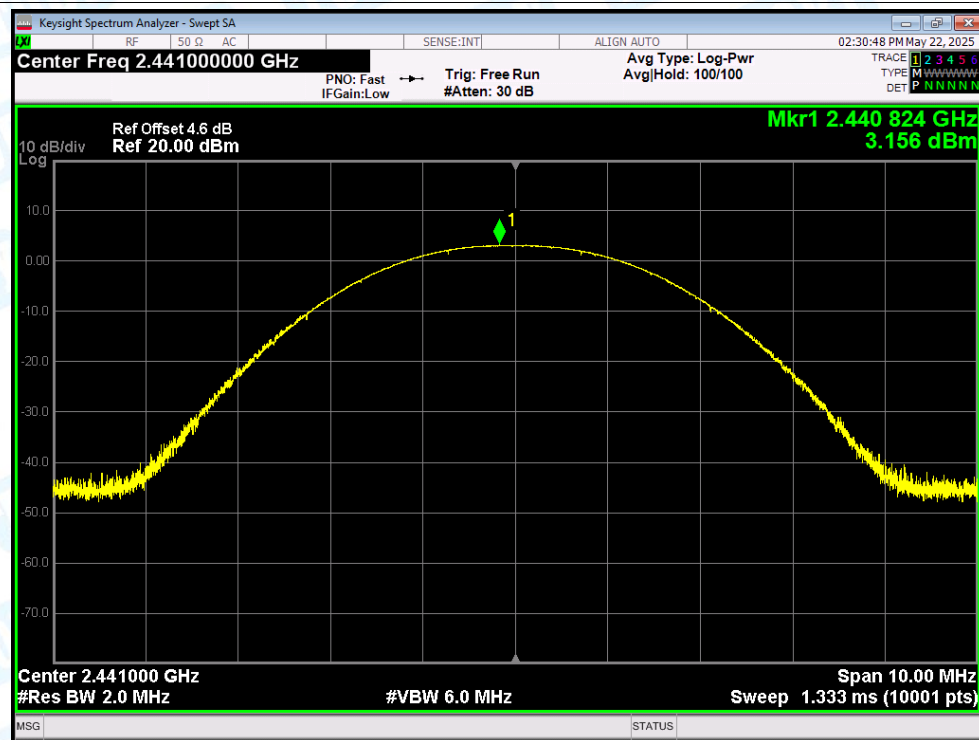
Power NVNT 2-DH1 2480MHz Ant1

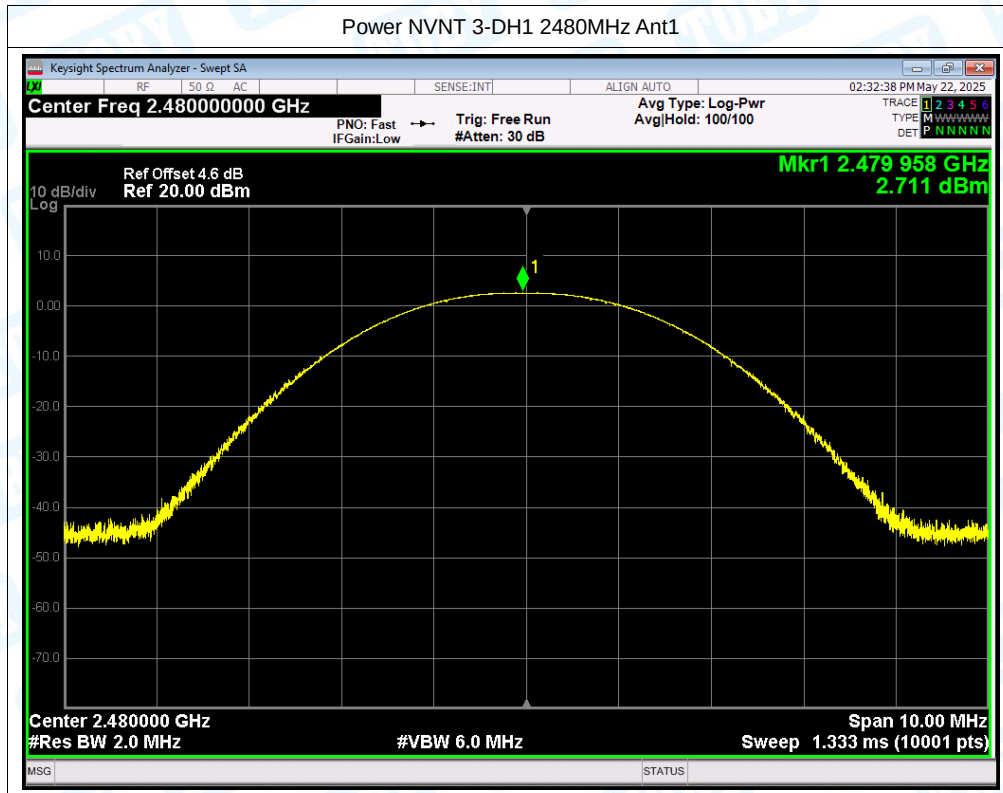


Power NVNT 3-DH1 2402MHz Ant1



Power NVNT 3-DH1 2441MHz Ant1



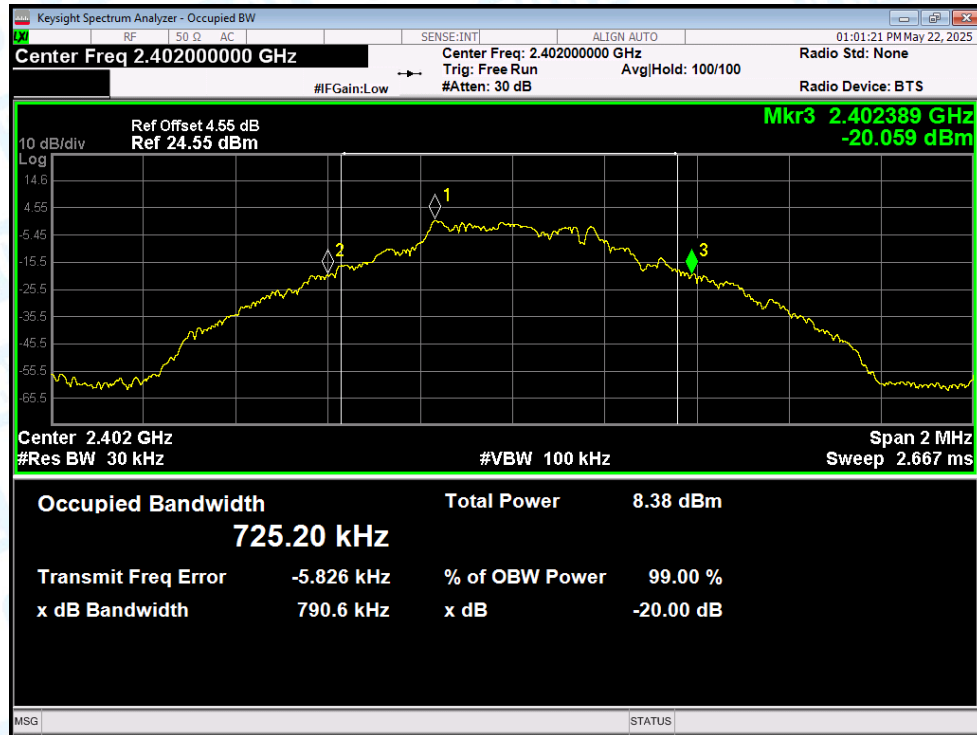


3. -20dB Bandwidth

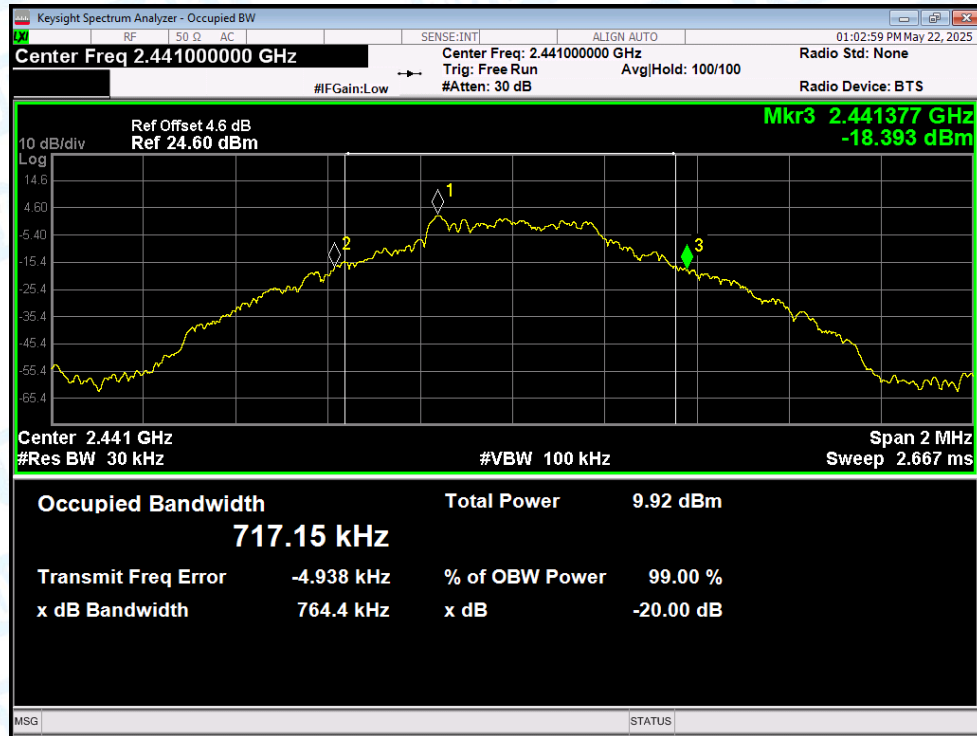
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.79	----	Pass
NVNT	1-DH1	2441	Ant1	0.76	----	Pass
NVNT	1-DH1	2480	Ant1	0.81	----	Pass
NVNT	2-DH1	2402	Ant1	1.23	----	Pass
NVNT	2-DH1	2441	Ant1	1.21	----	Pass
NVNT	2-DH1	2480	Ant1	1.22	----	Pass
NVNT	3-DH1	2402	Ant1	1.22	----	Pass
NVNT	3-DH1	2441	Ant1	1.24	----	Pass
NVNT	3-DH1	2480	Ant1	1.21	----	Pass

Test Graphs

-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



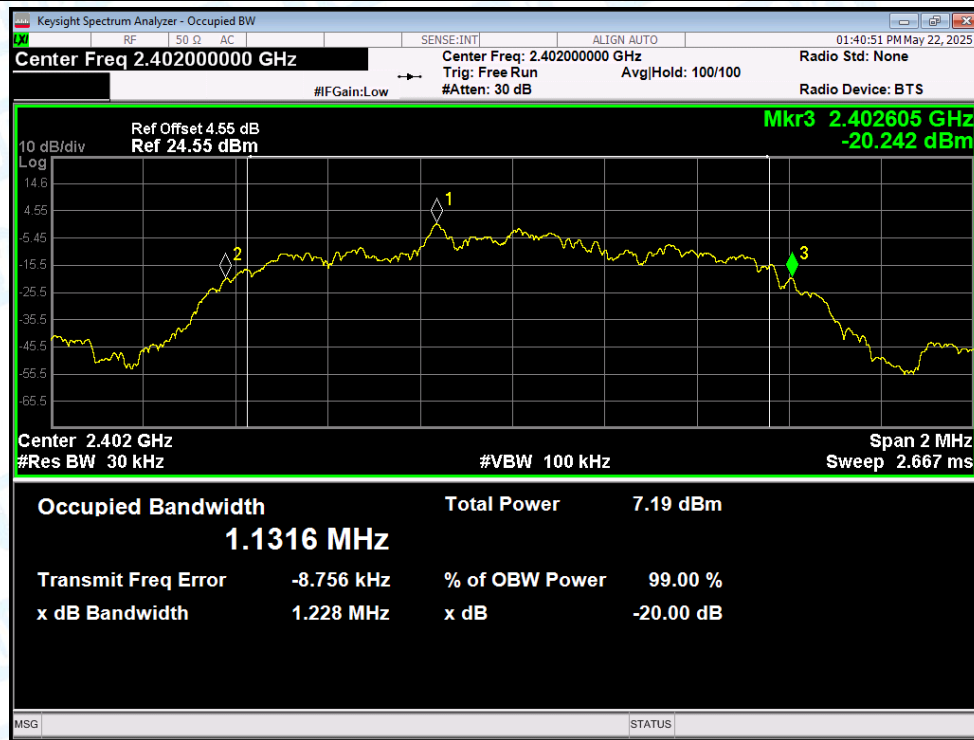
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



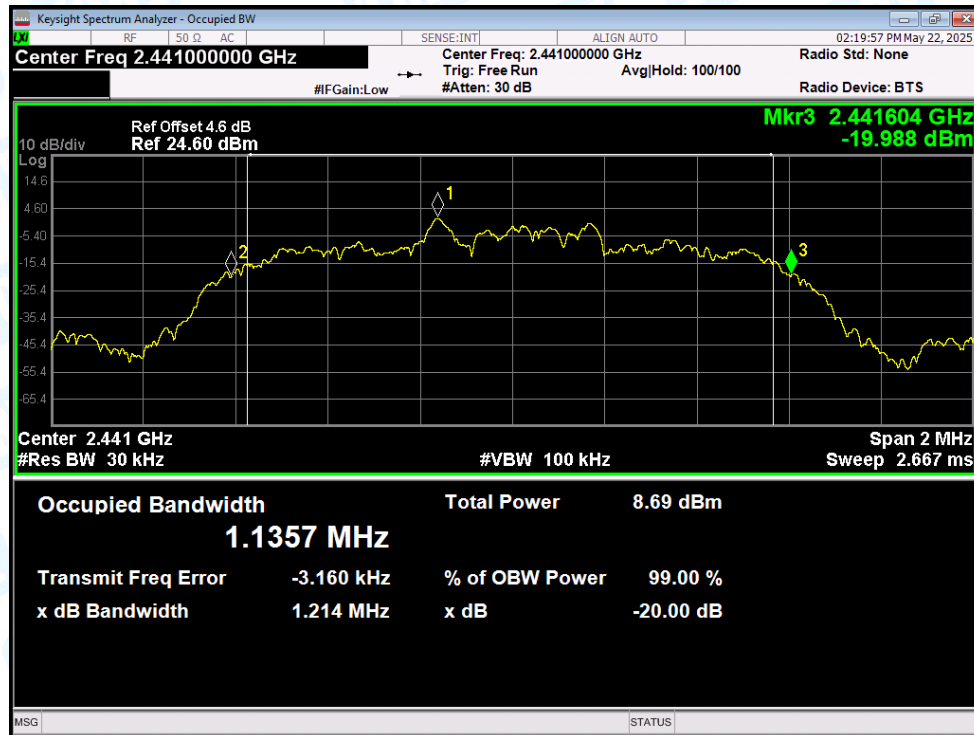
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



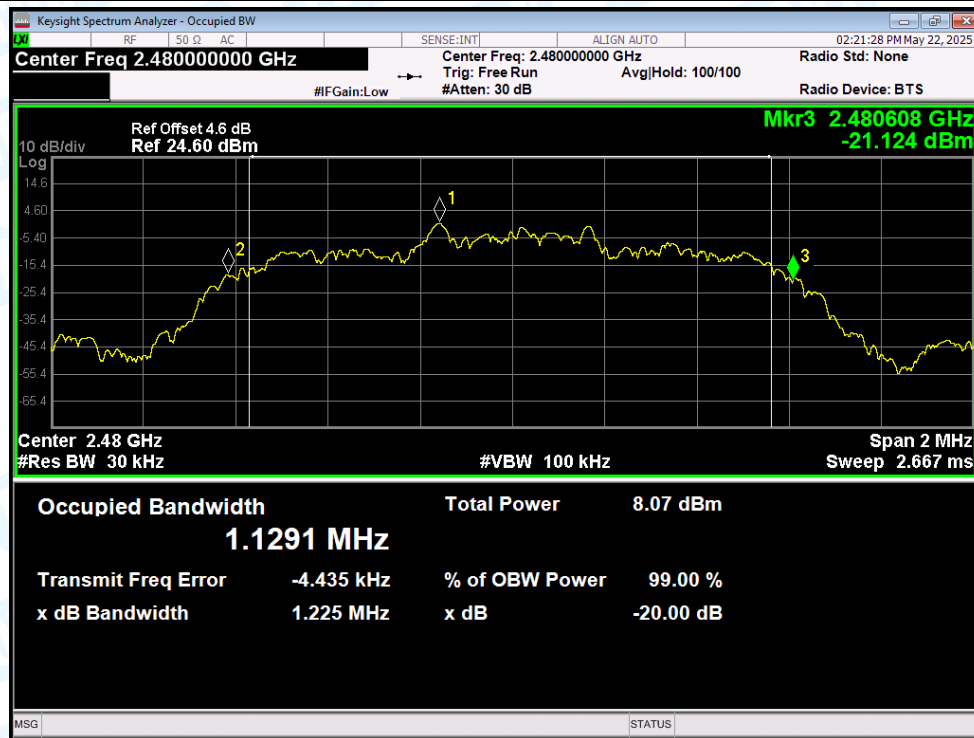
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



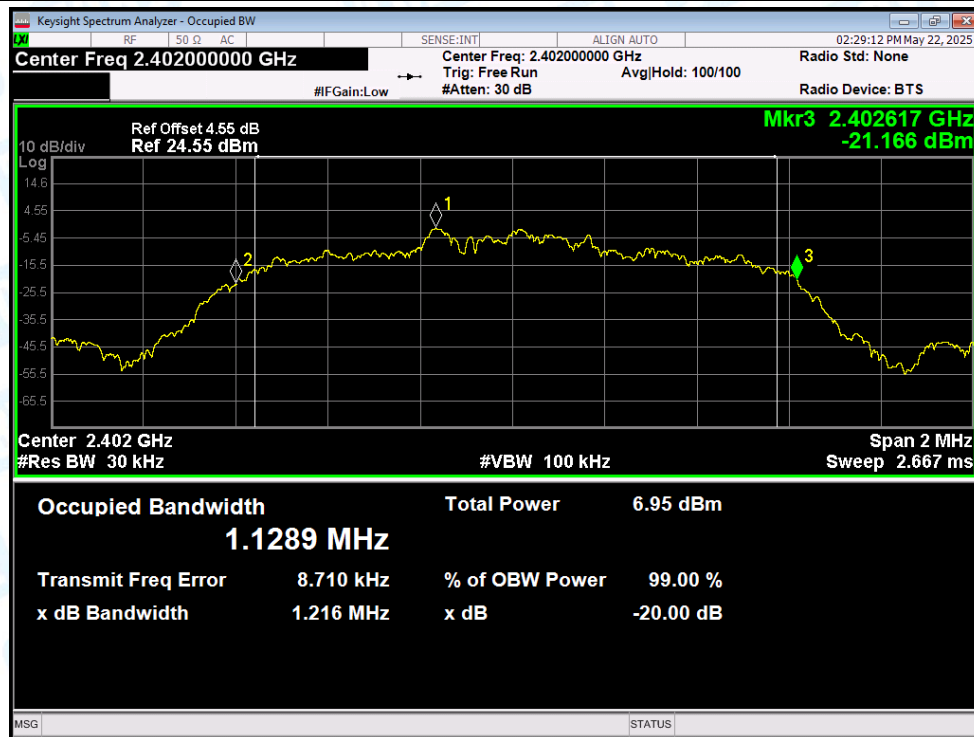
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



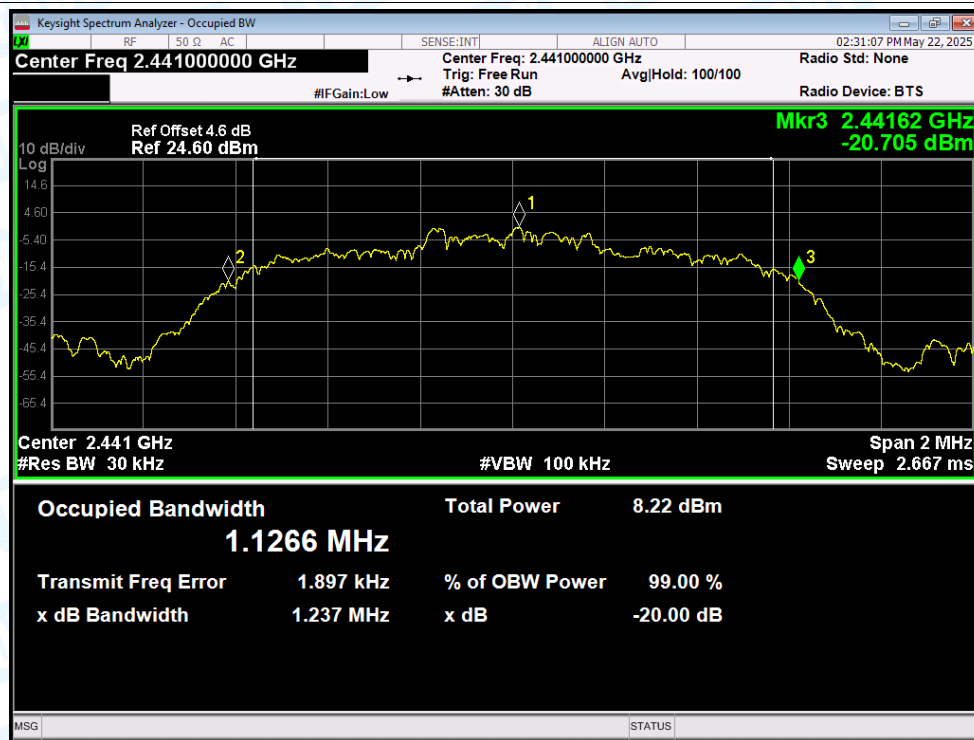
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

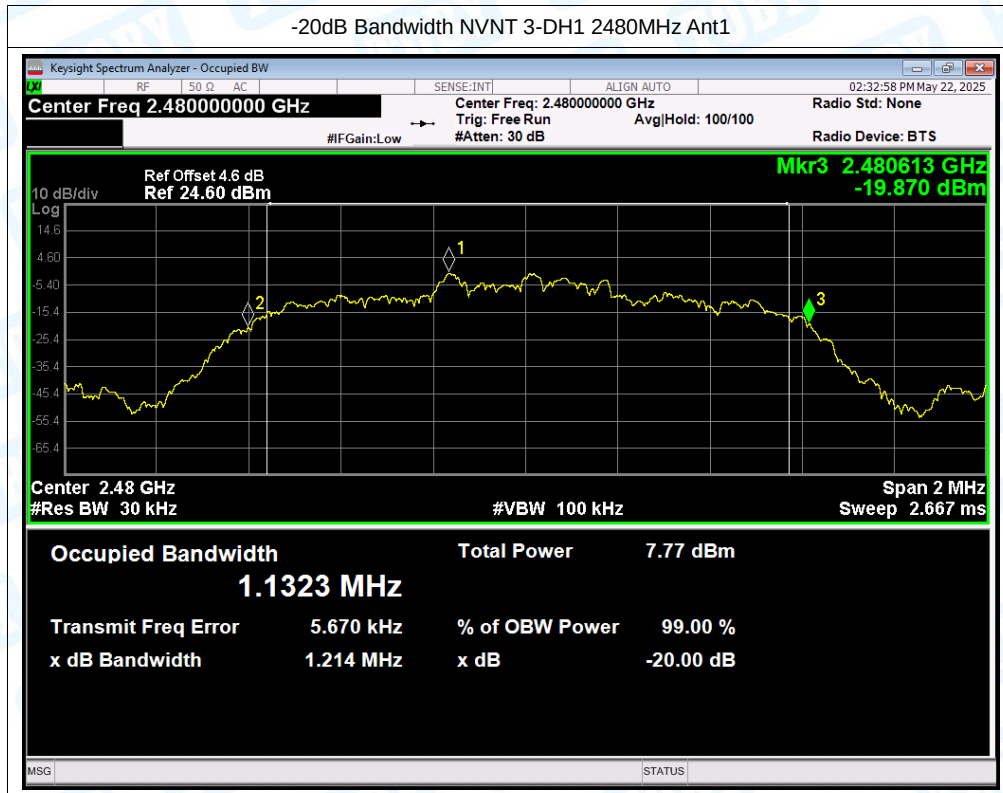


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



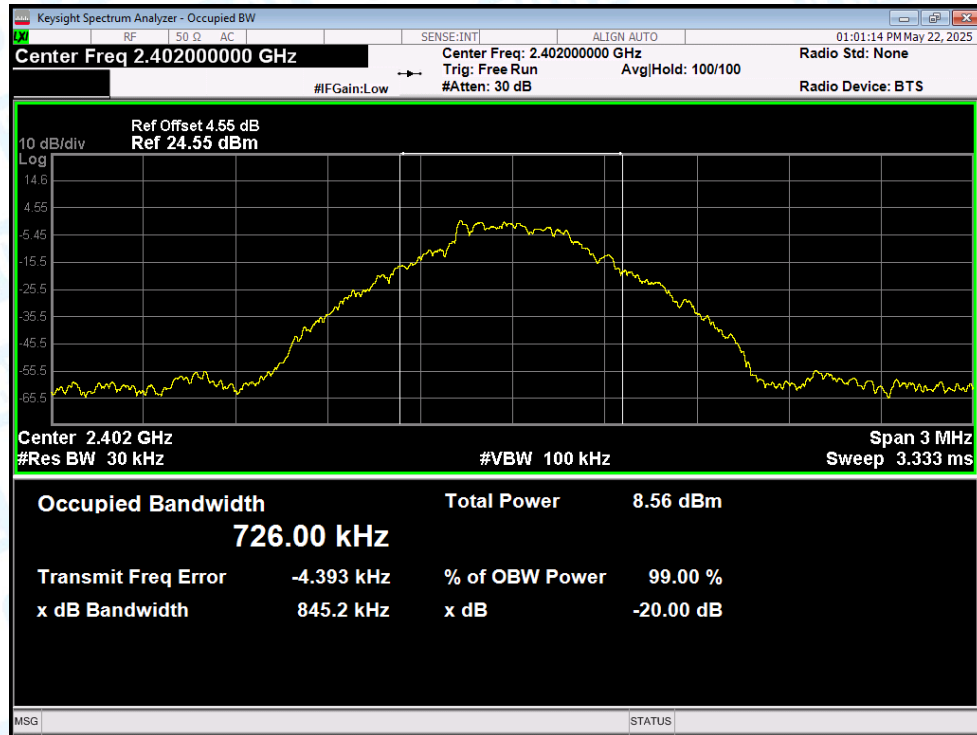


4. Occupied Channel Bandwidth

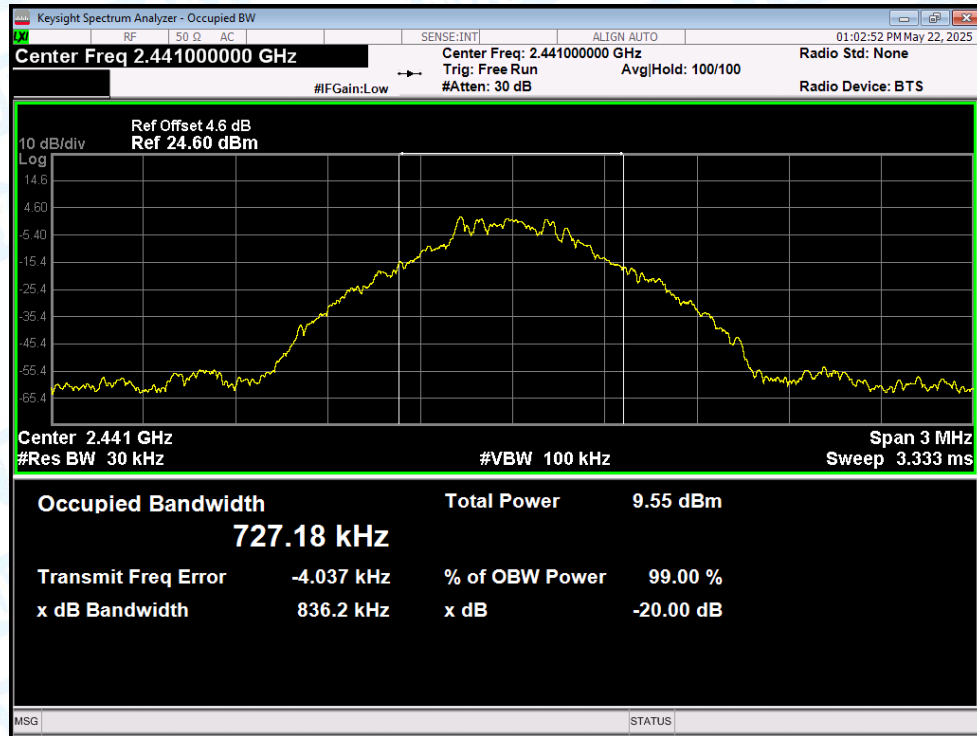
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.726
NVNT	1-DH1	2441	Ant1	0.727
NVNT	1-DH1	2480	Ant1	0.736
NVNT	2-DH1	2402	Ant1	1.128
NVNT	2-DH1	2441	Ant1	1.143
NVNT	2-DH1	2480	Ant1	1.141
NVNT	3-DH1	2402	Ant1	1.126
NVNT	3-DH1	2441	Ant1	1.130
NVNT	3-DH1	2480	Ant1	1.137

Test Graphs

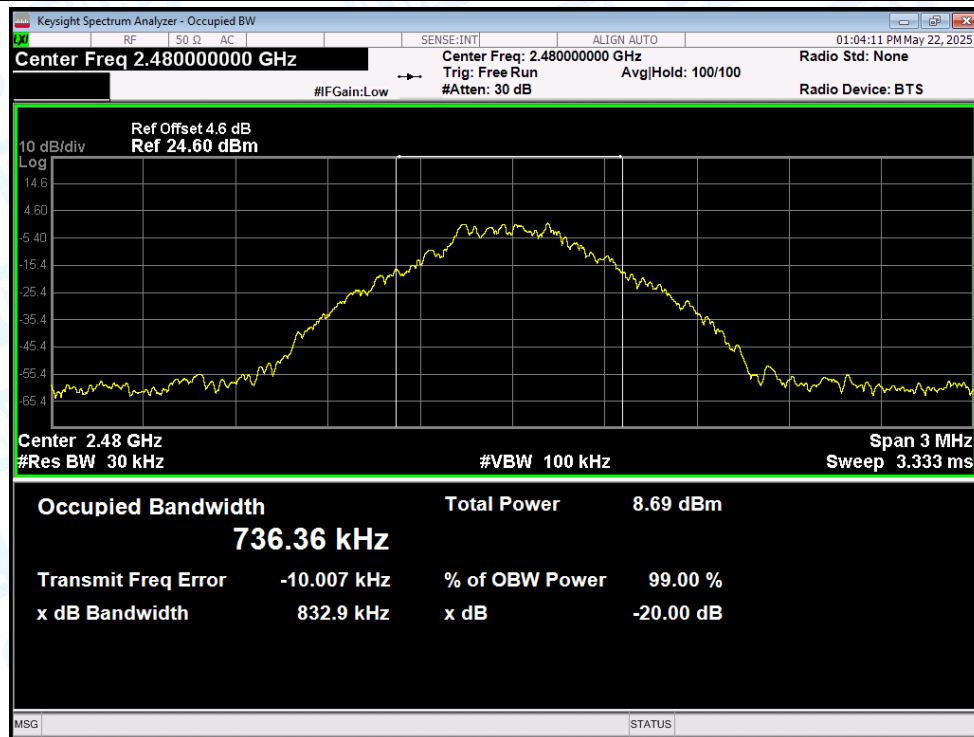
OBW NVNT 1-DH1 2402MHz Ant1



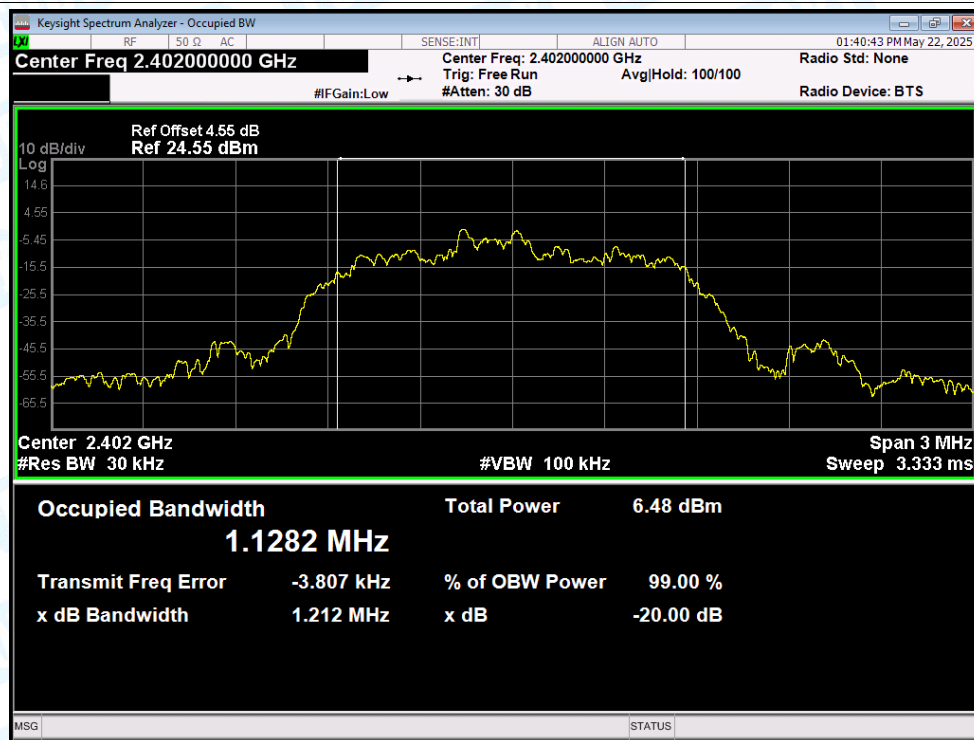
OBW NVNT 1-DH1 2441MHz Ant1



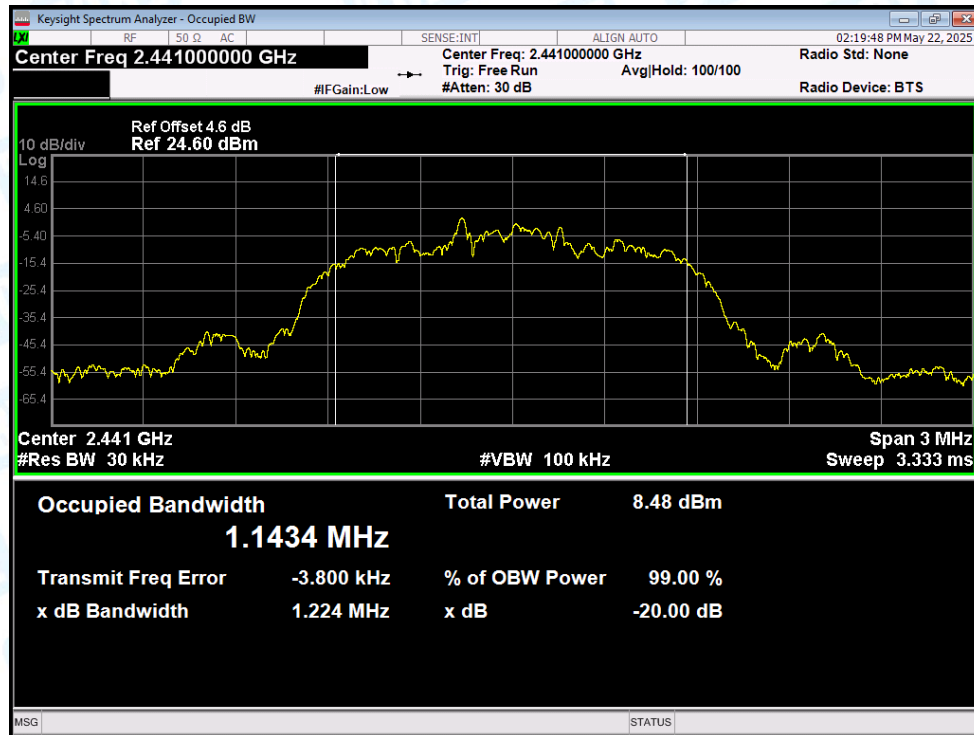
OBW NVNT 1-DH1 2480MHz Ant1



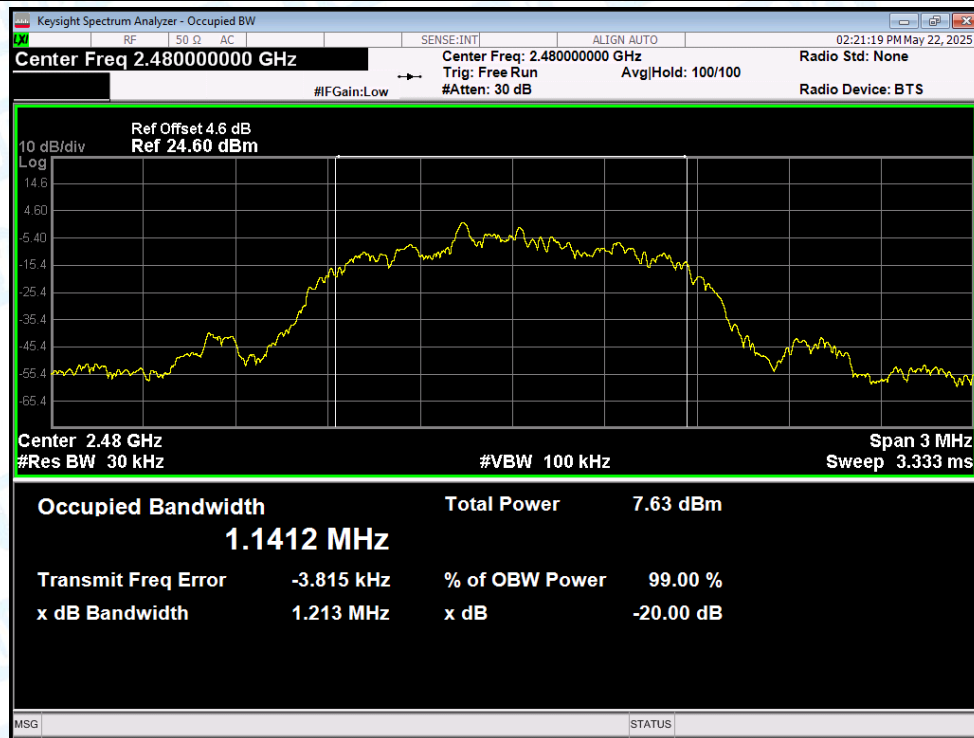
OBW NVNT 2-DH1 2402MHz Ant1



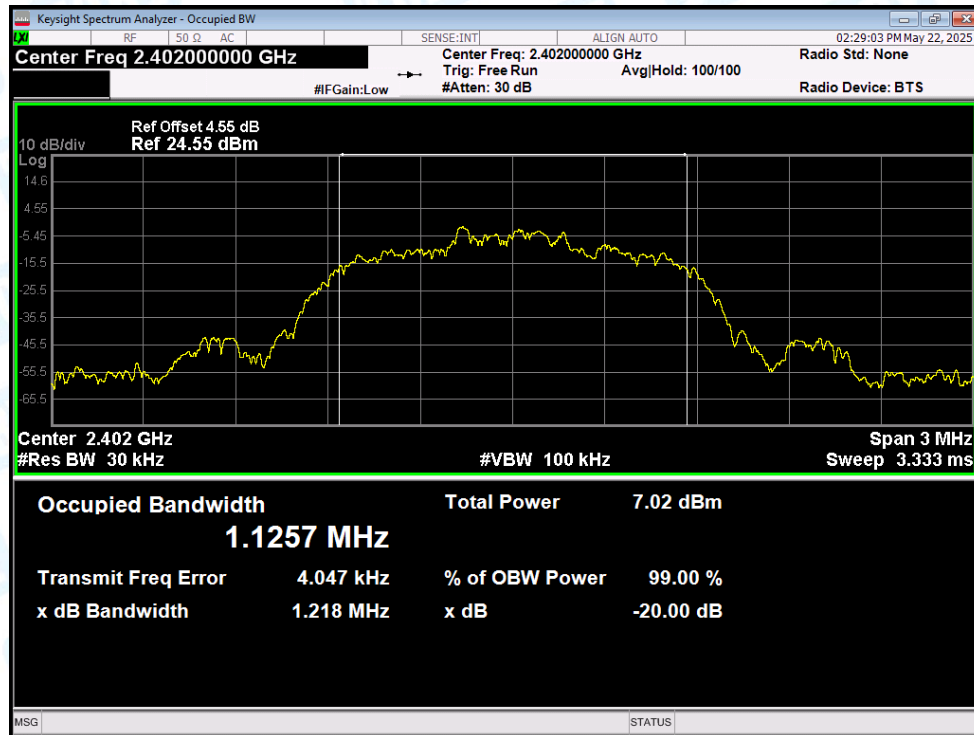
OBW NVNT 2-DH1 2441MHz Ant1



OBW NVNT 2-DH1 2480MHz Ant1

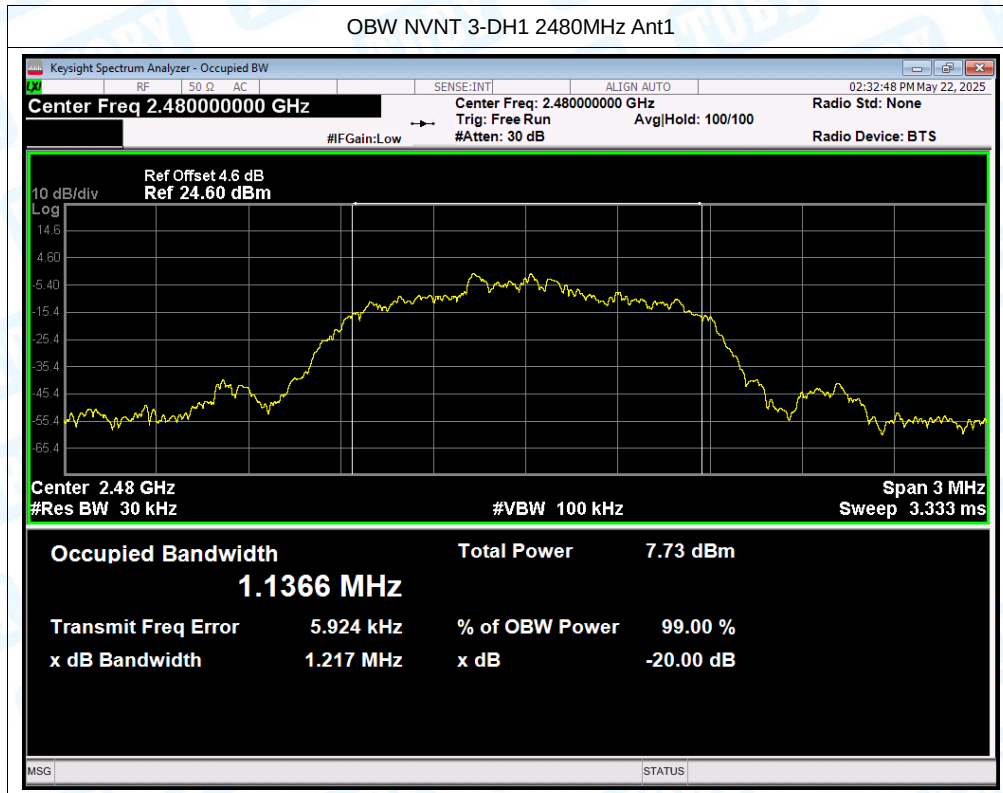


OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1



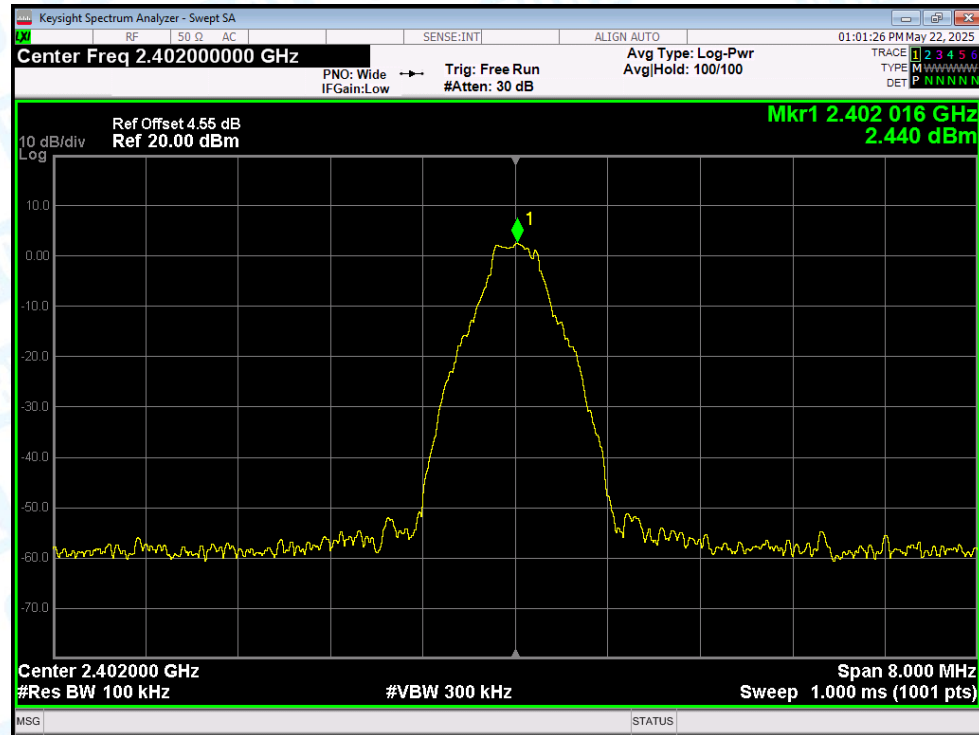


5. Band Edge

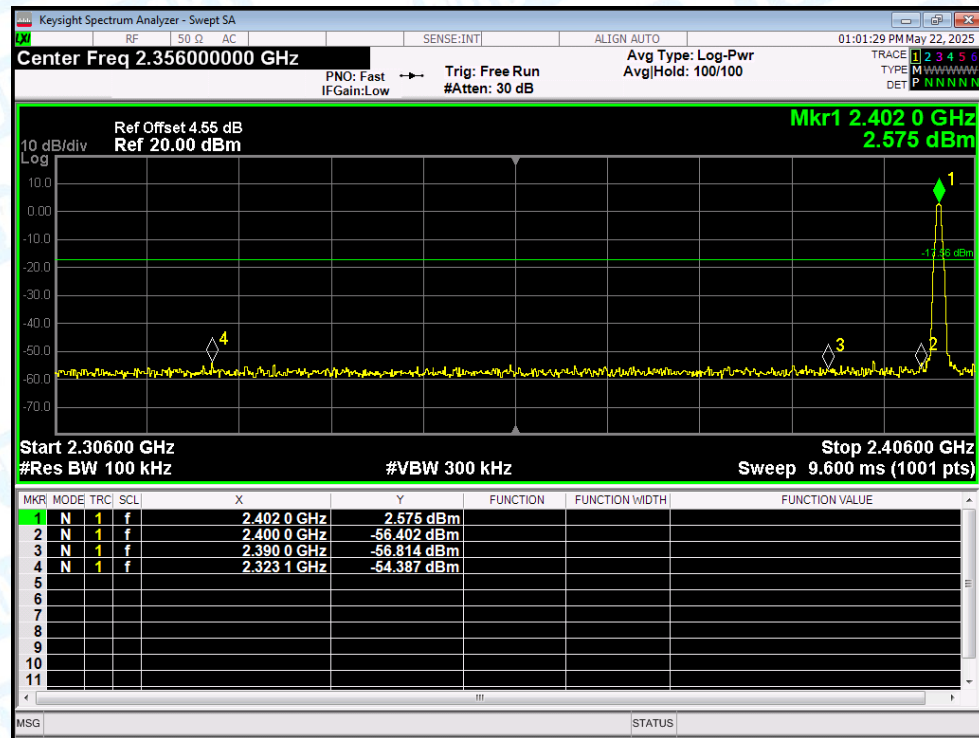
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-56.83	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-56.73	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-56.14	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-55.94	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-54.55	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-56.86	-20	Pass

Test Graphs

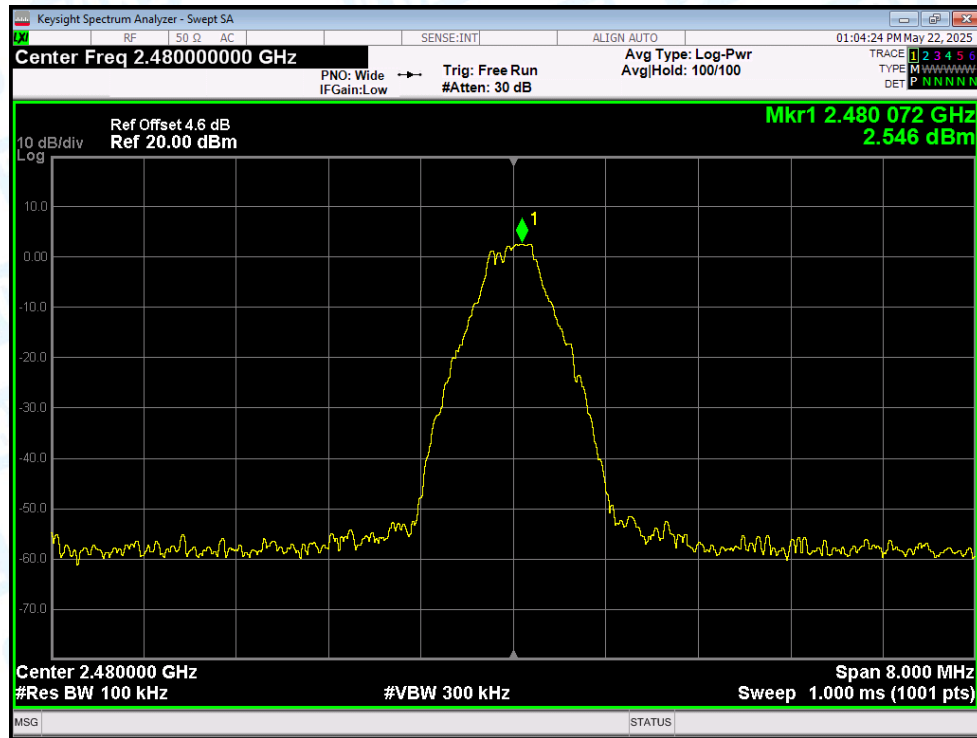
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



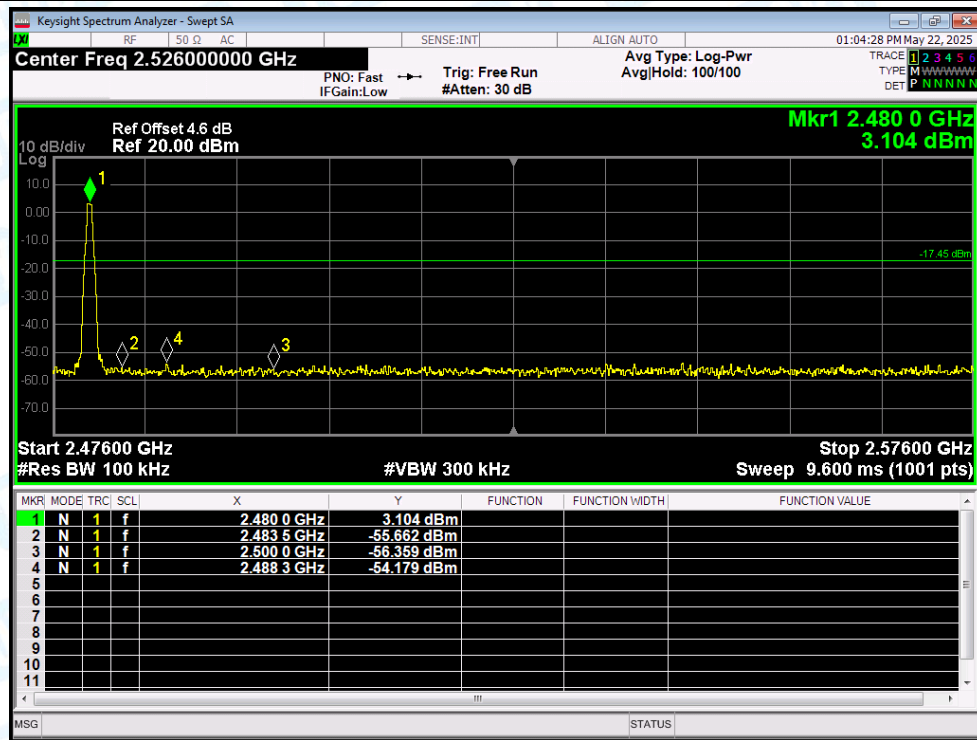
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



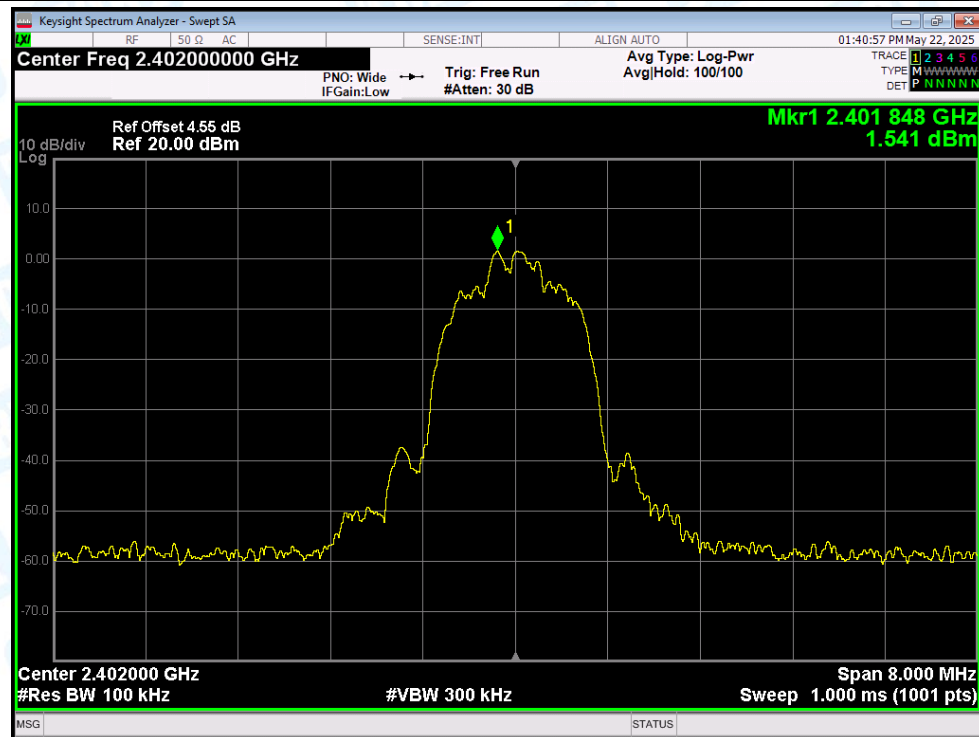
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



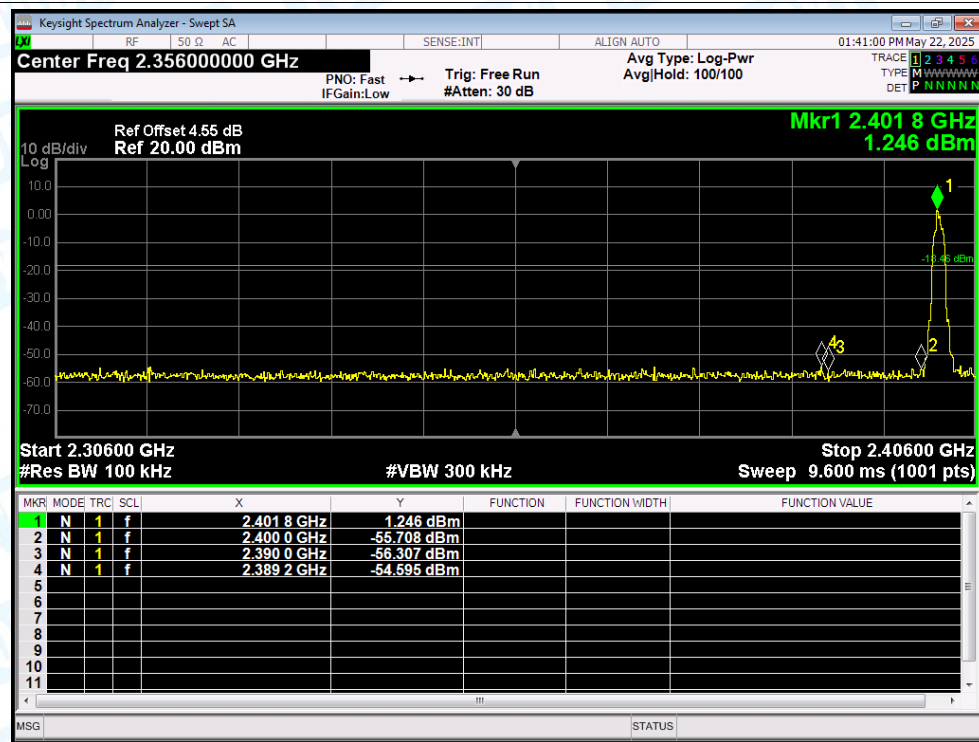
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



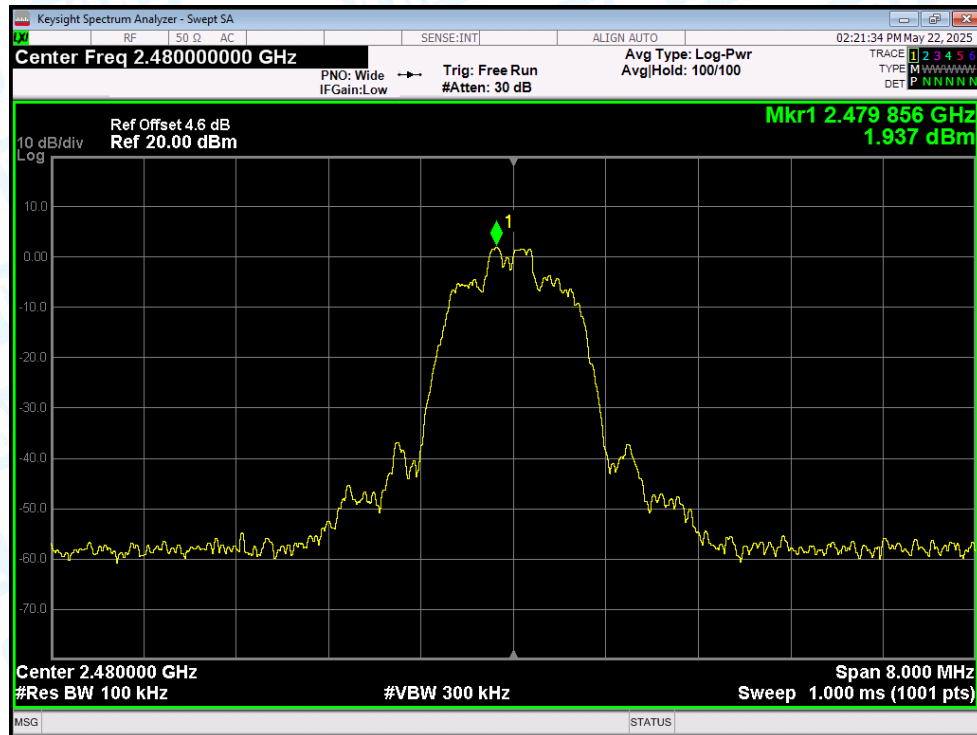
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



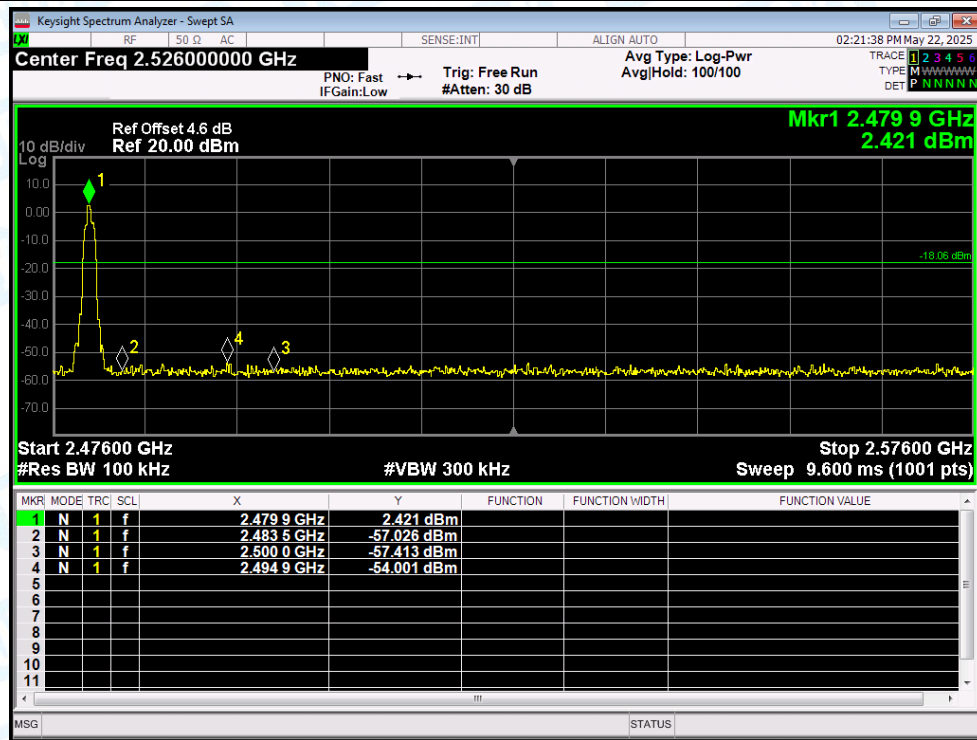
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



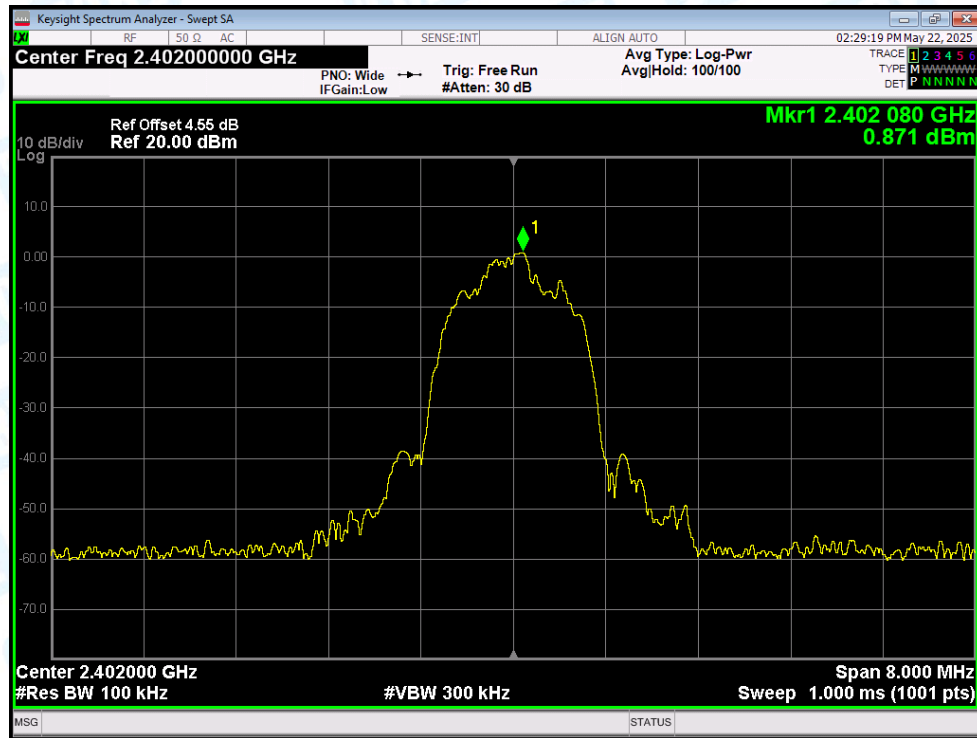
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Ref



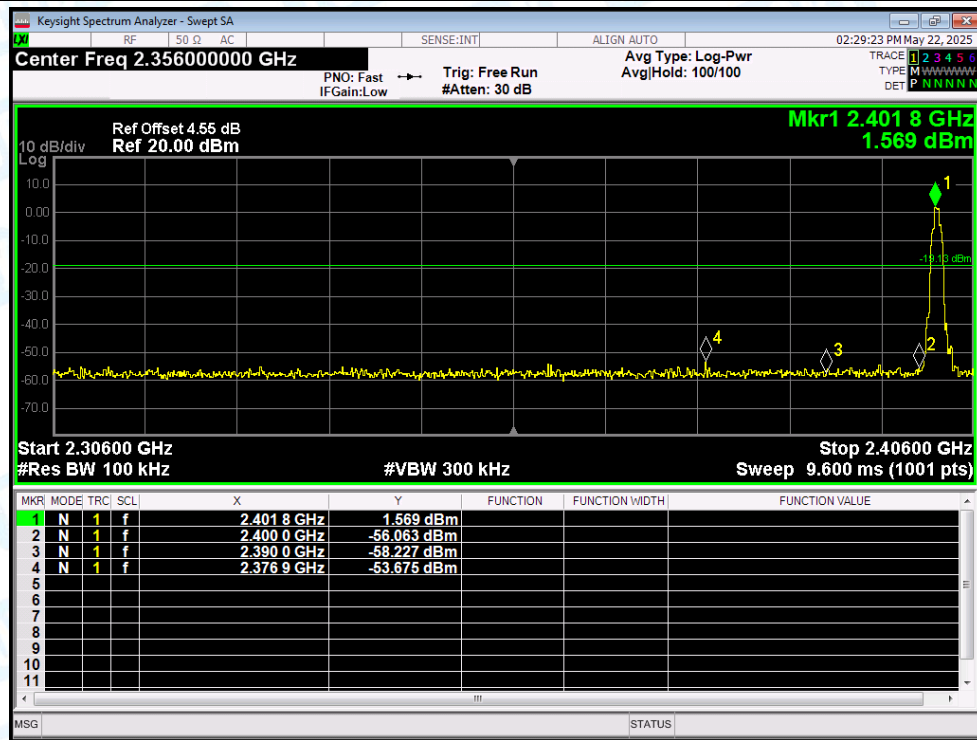
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission



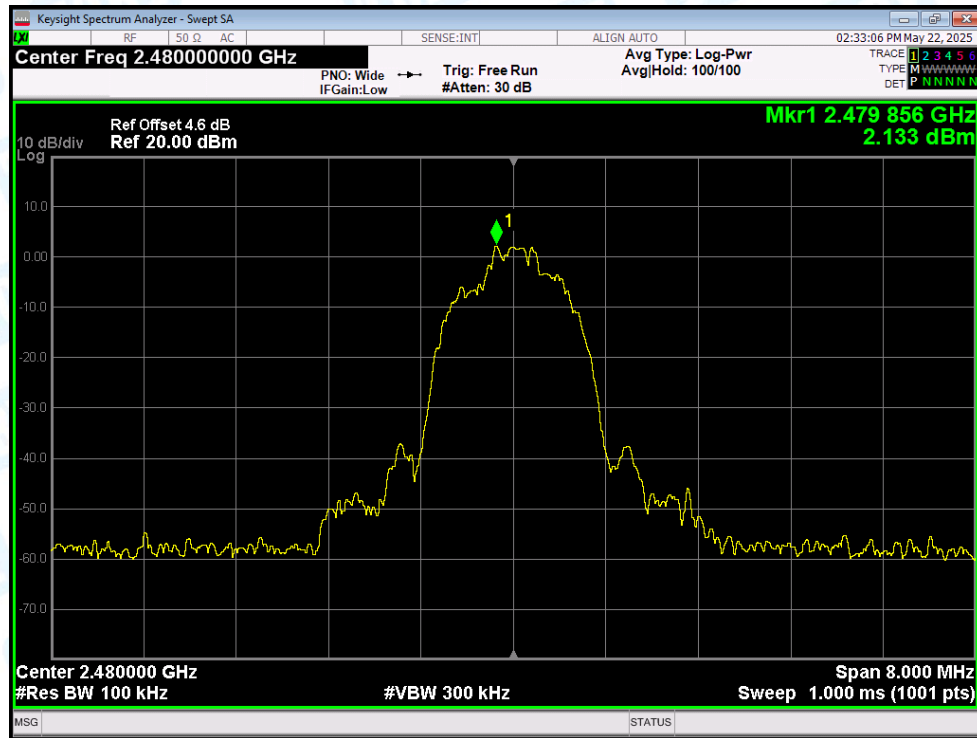
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Ref



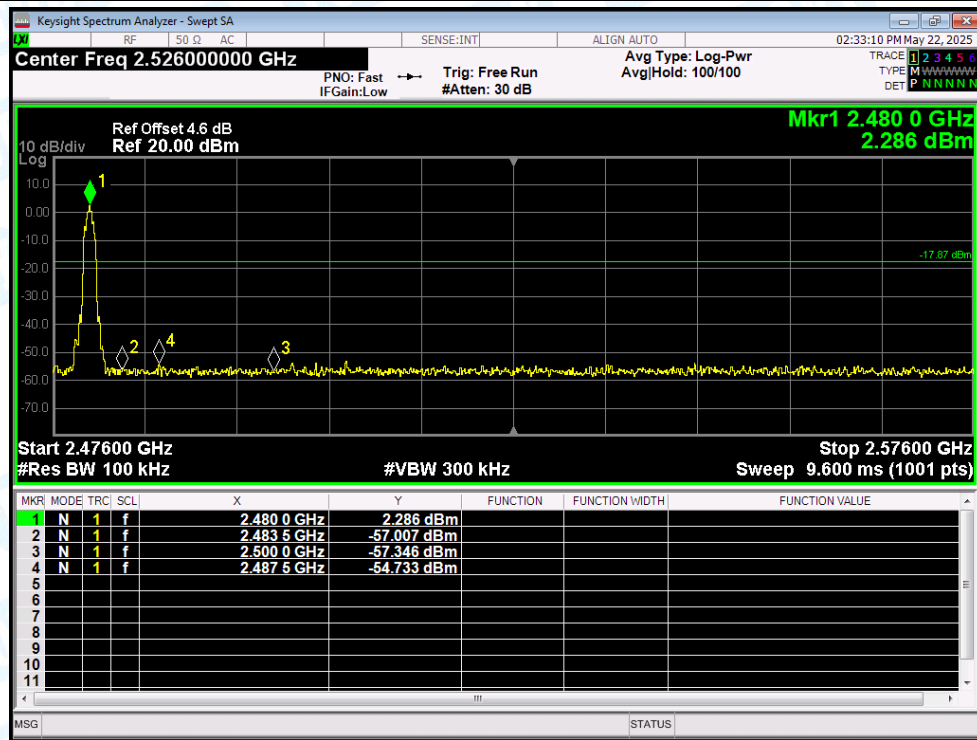
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission



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



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

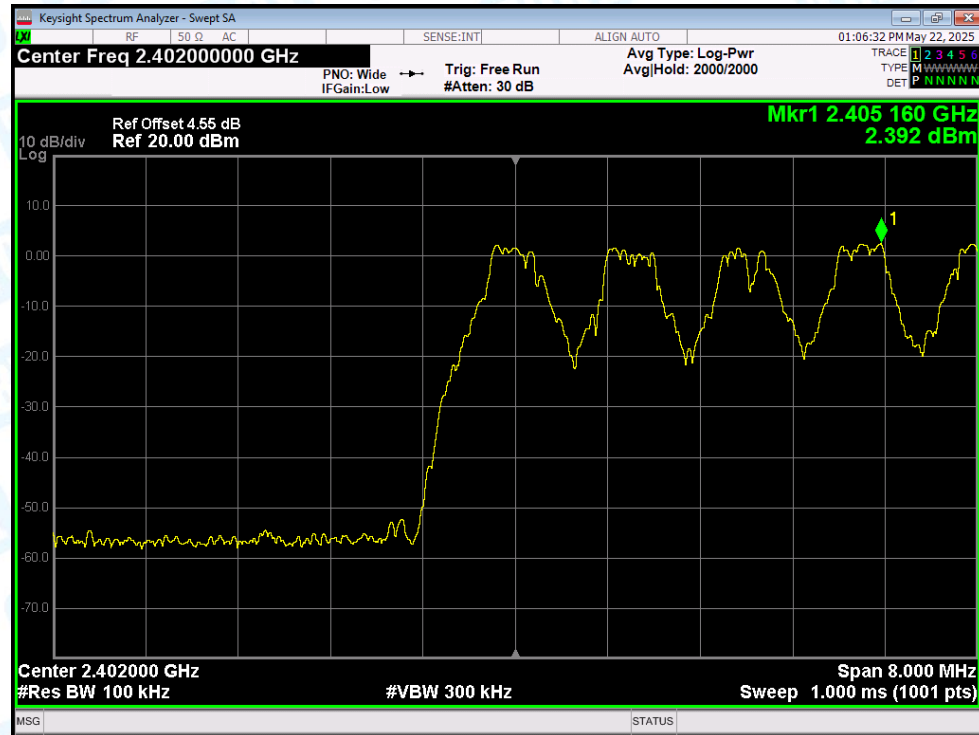


6. Band Edge(Hopping)

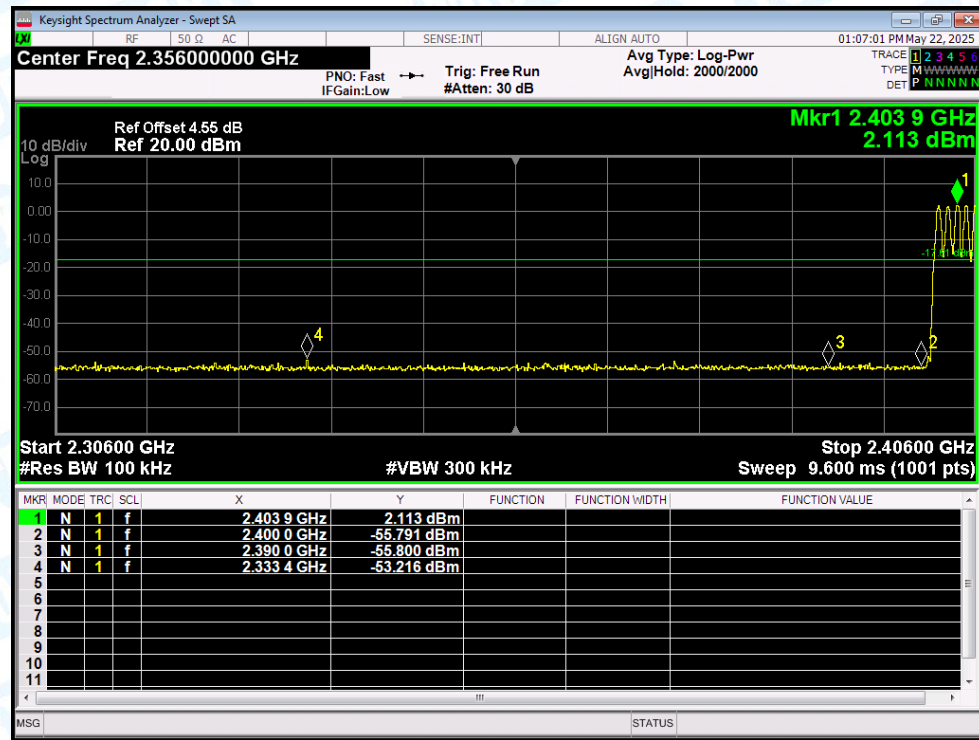
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-55.61	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-56.59	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-55.94	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-54.98	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-54.91	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-52.00	-20	Pass

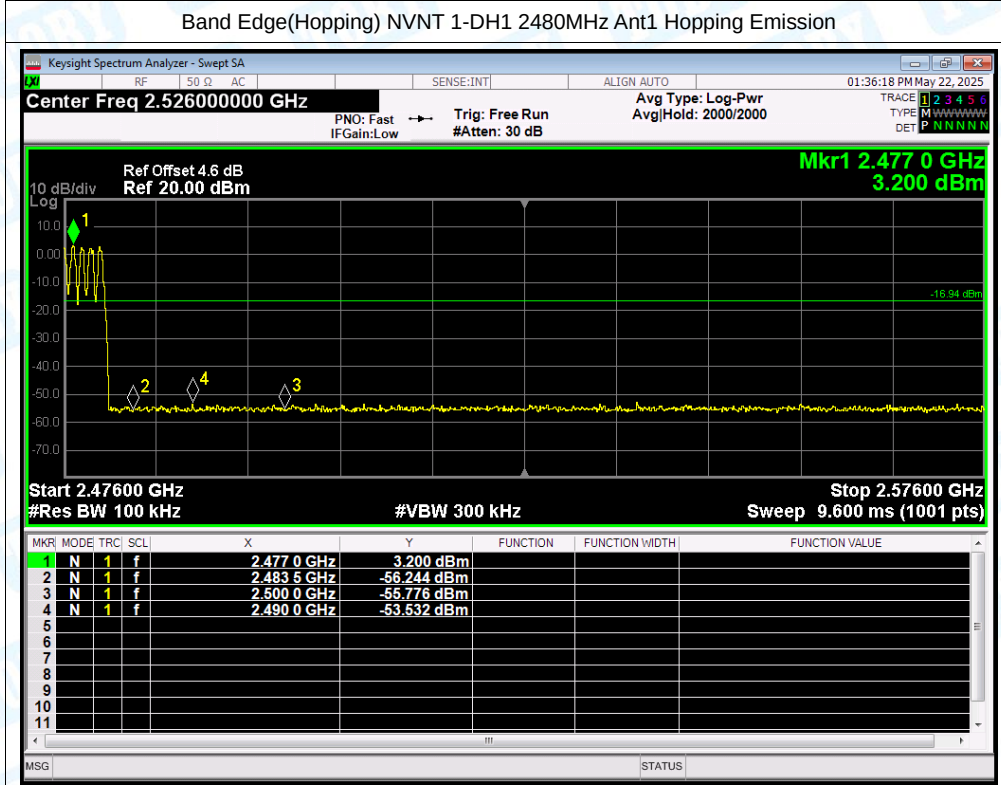
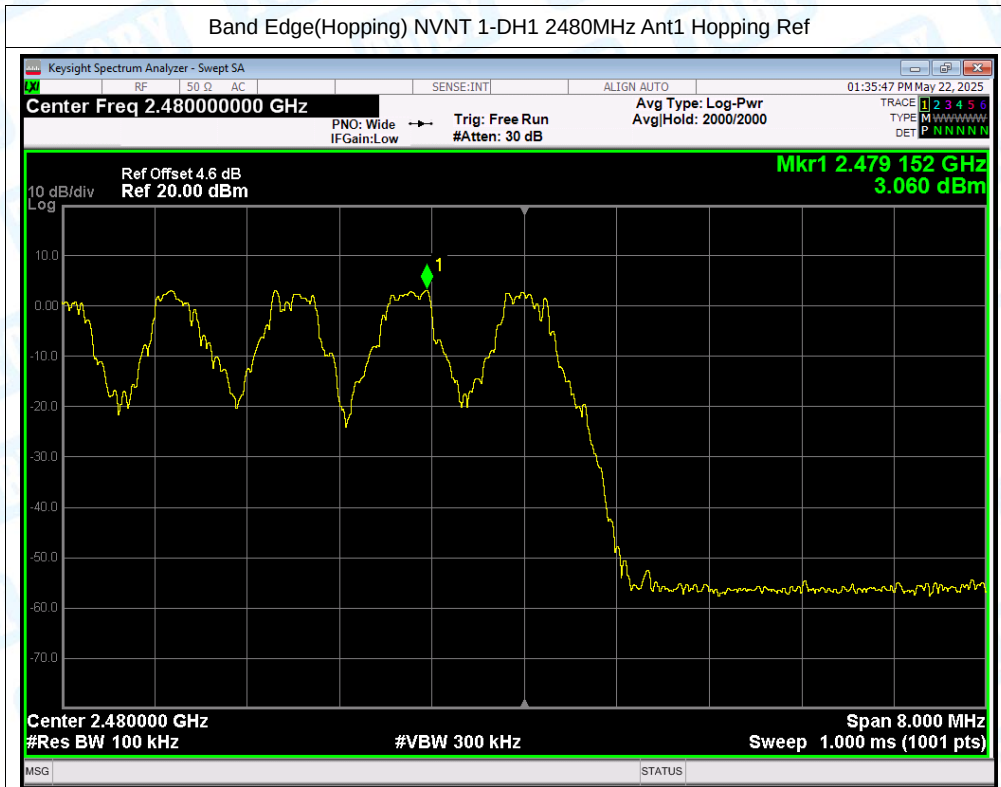
Test Graphs

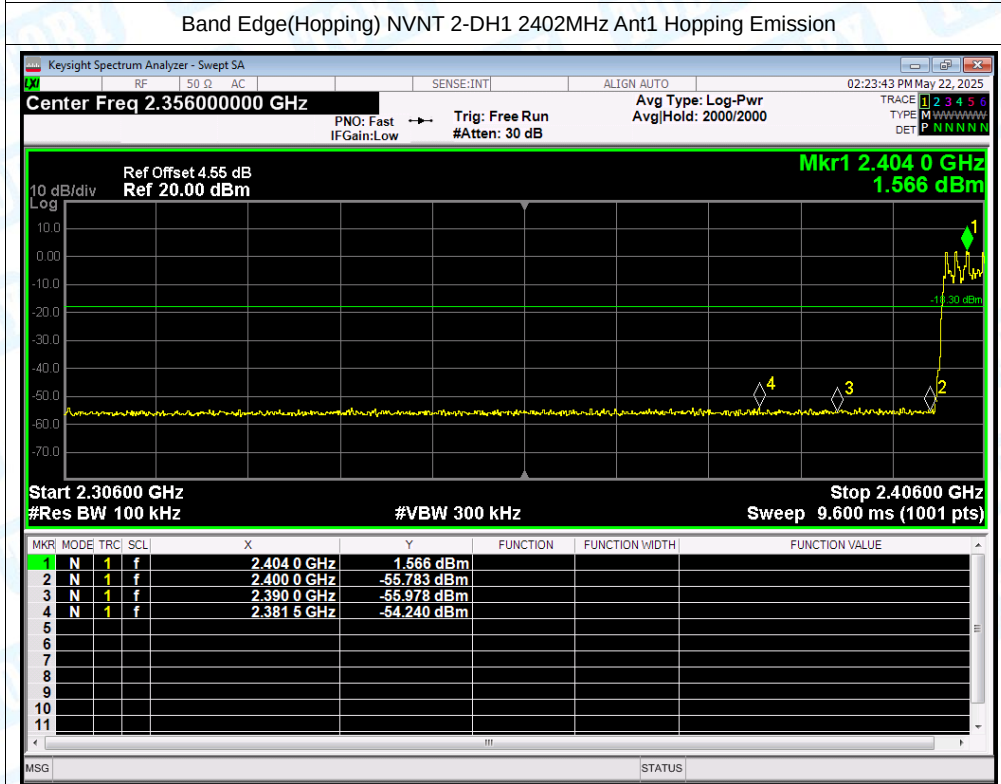
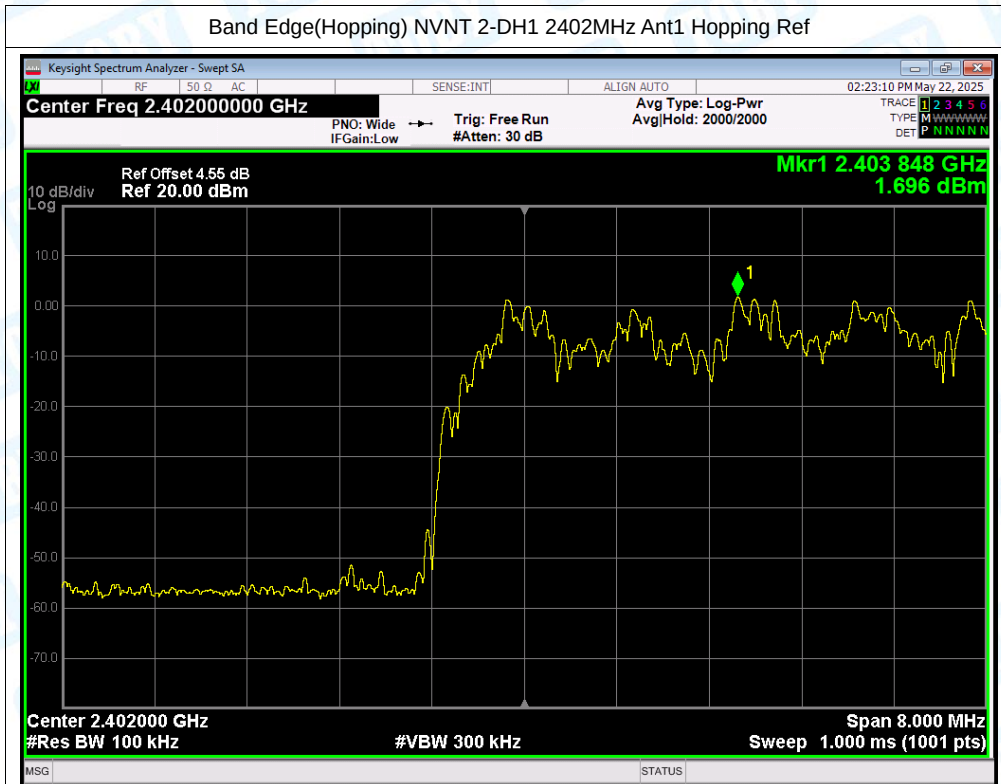
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Ref



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



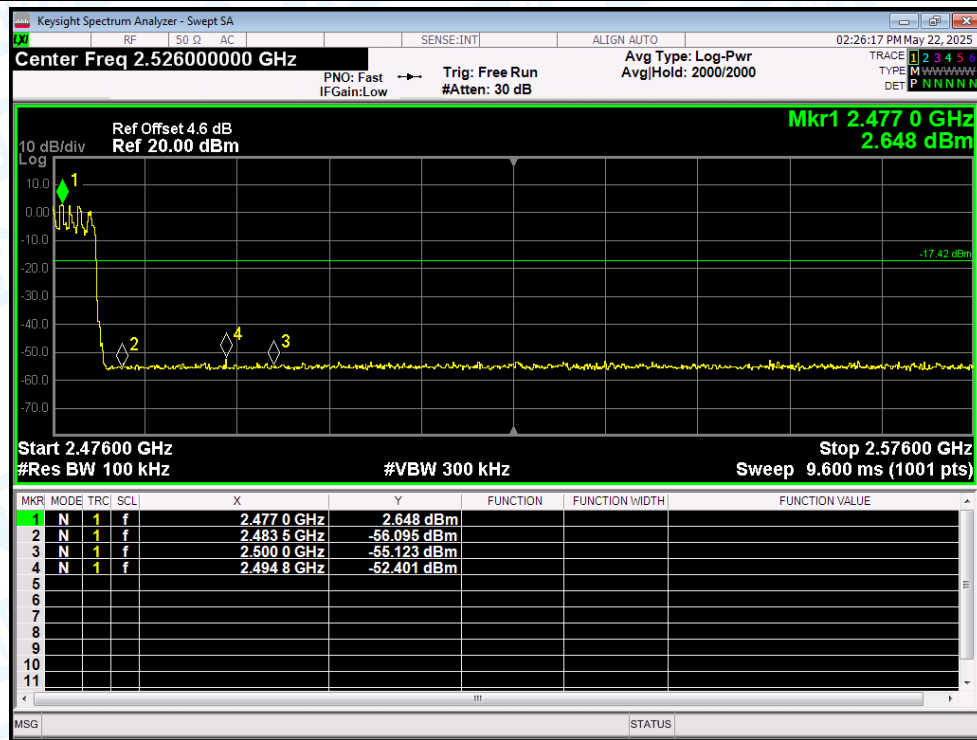




Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Ref



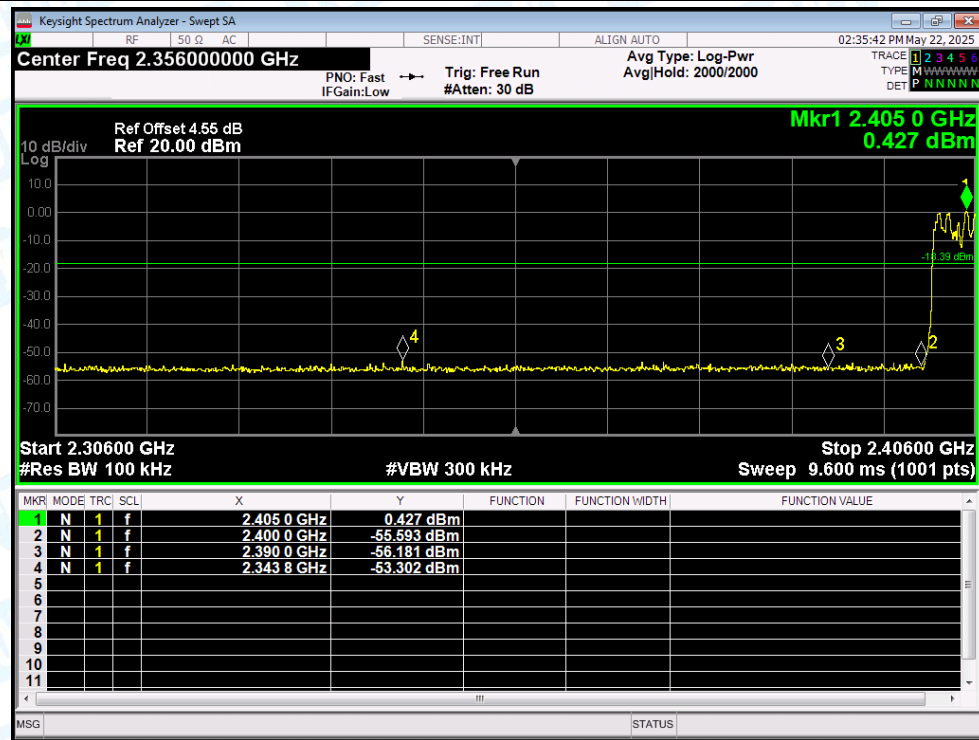
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission



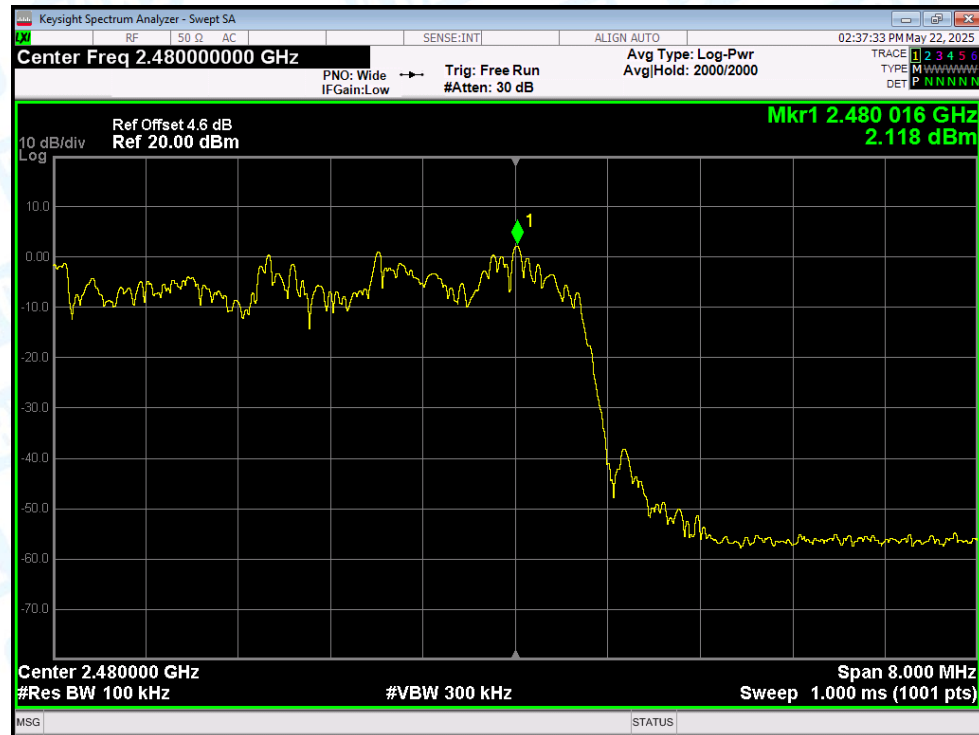
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Ref



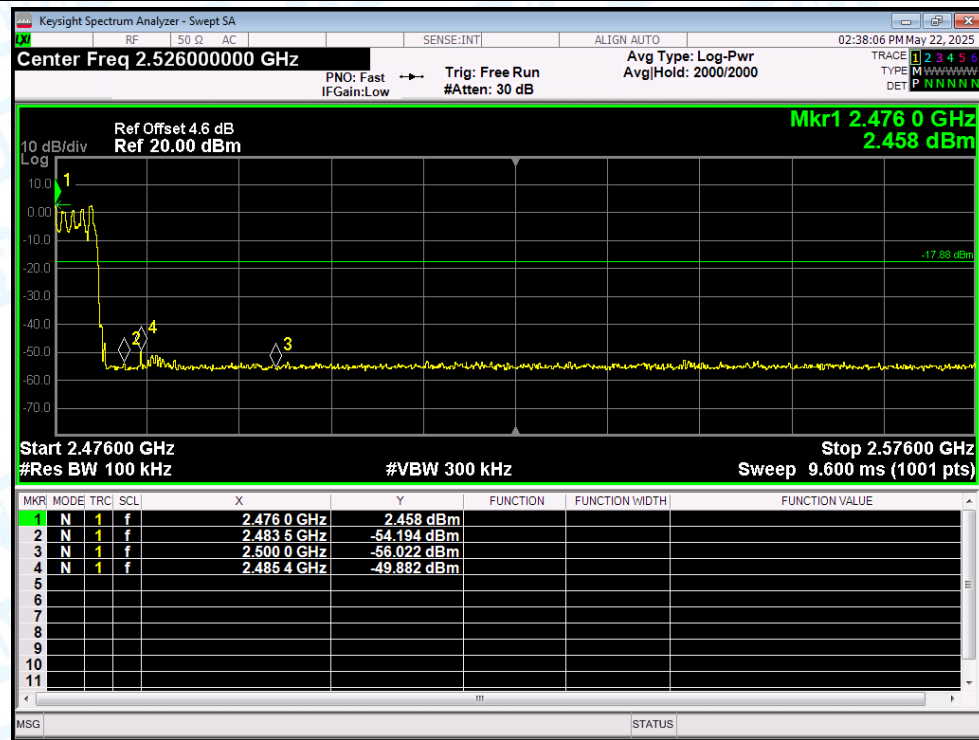
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Emission



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



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

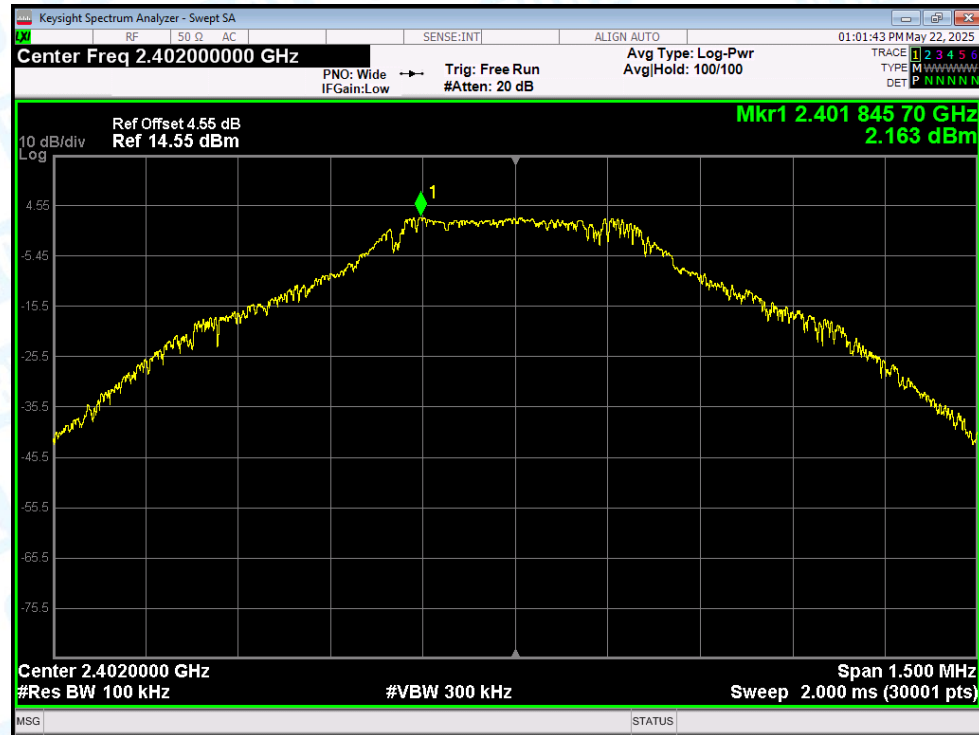


7. Conducted RF Spurious Emission

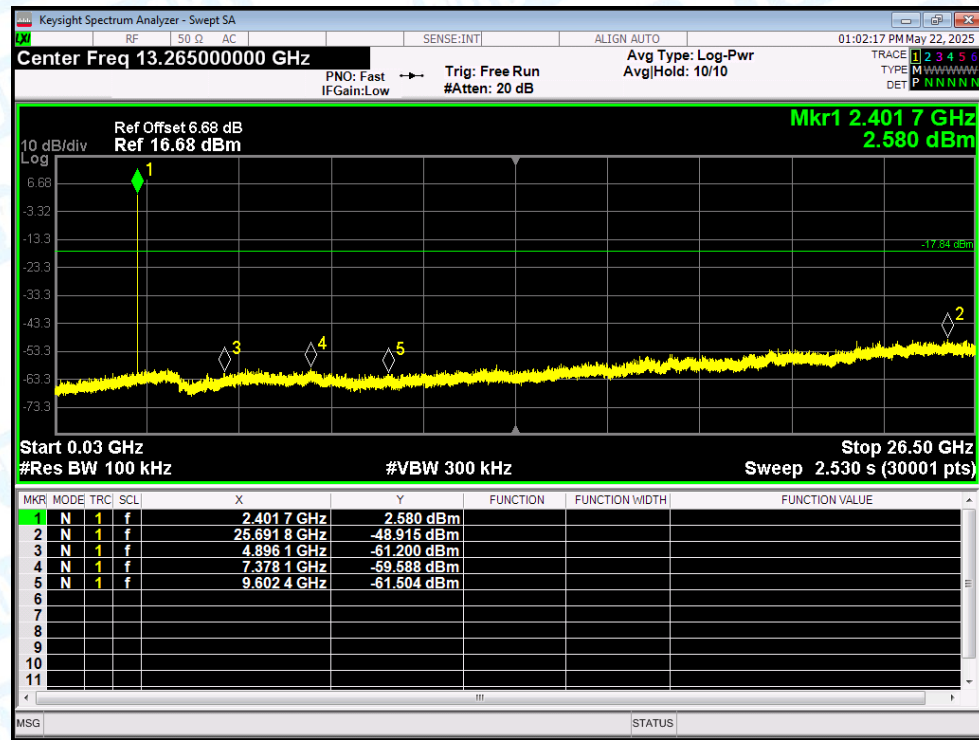
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-51.07	-20	Pass
NVNT	1-DH1	2441	Ant1	-53.1	-20	Pass
NVNT	1-DH1	2480	Ant1	-52.18	-20	Pass
NVNT	2-DH1	2402	Ant1	-50.75	-20	Pass
NVNT	2-DH1	2441	Ant1	-52.05	-20	Pass
NVNT	2-DH1	2480	Ant1	-51.31	-20	Pass
NVNT	3-DH1	2402	Ant1	-50.13	-20	Pass
NVNT	3-DH1	2441	Ant1	-52.07	-20	Pass
NVNT	3-DH1	2480	Ant1	-50.85	-20	Pass

Test Graphs

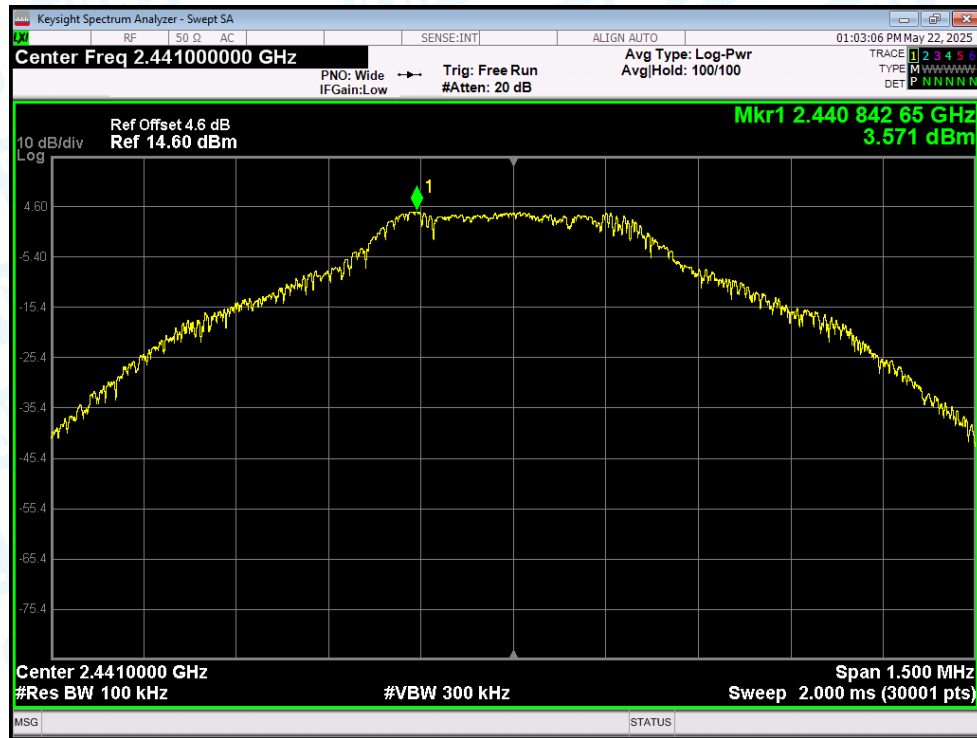
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



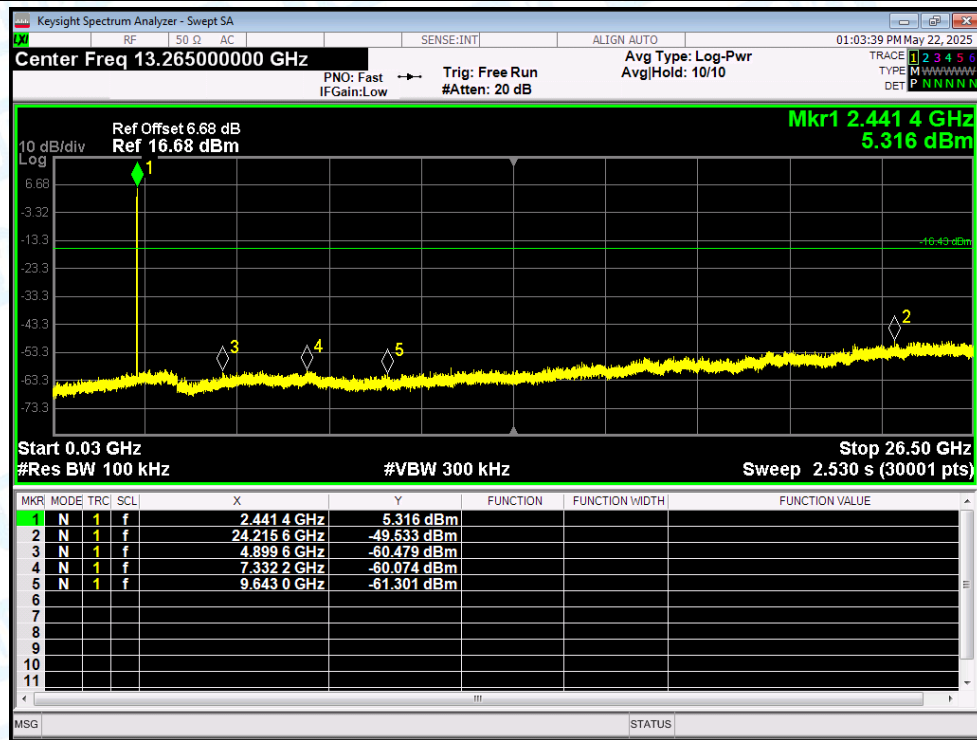
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



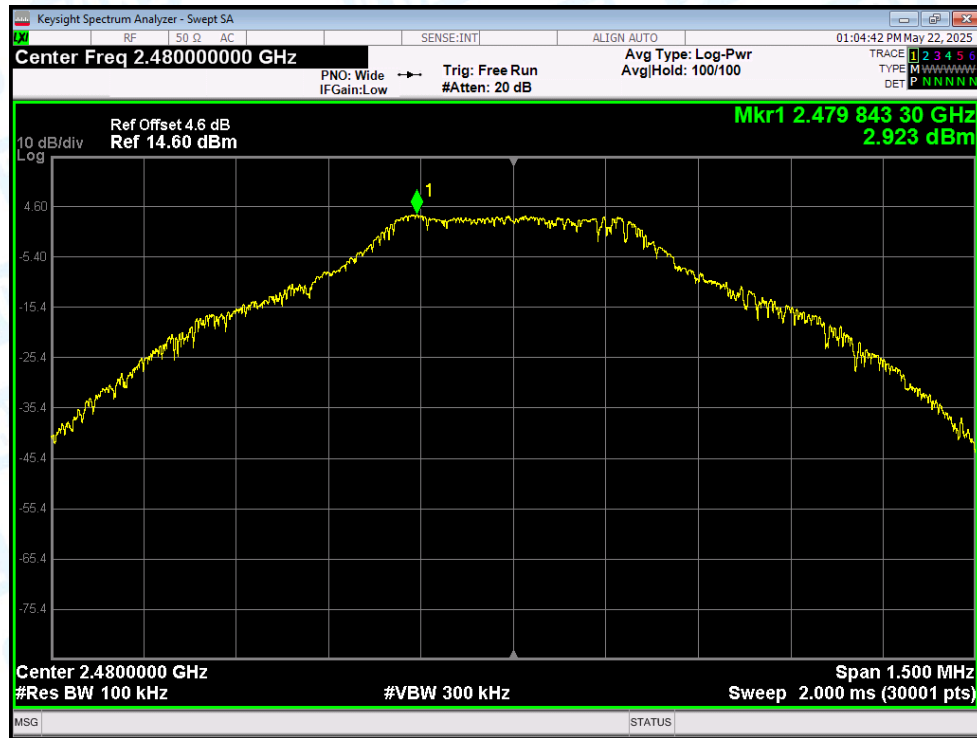
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



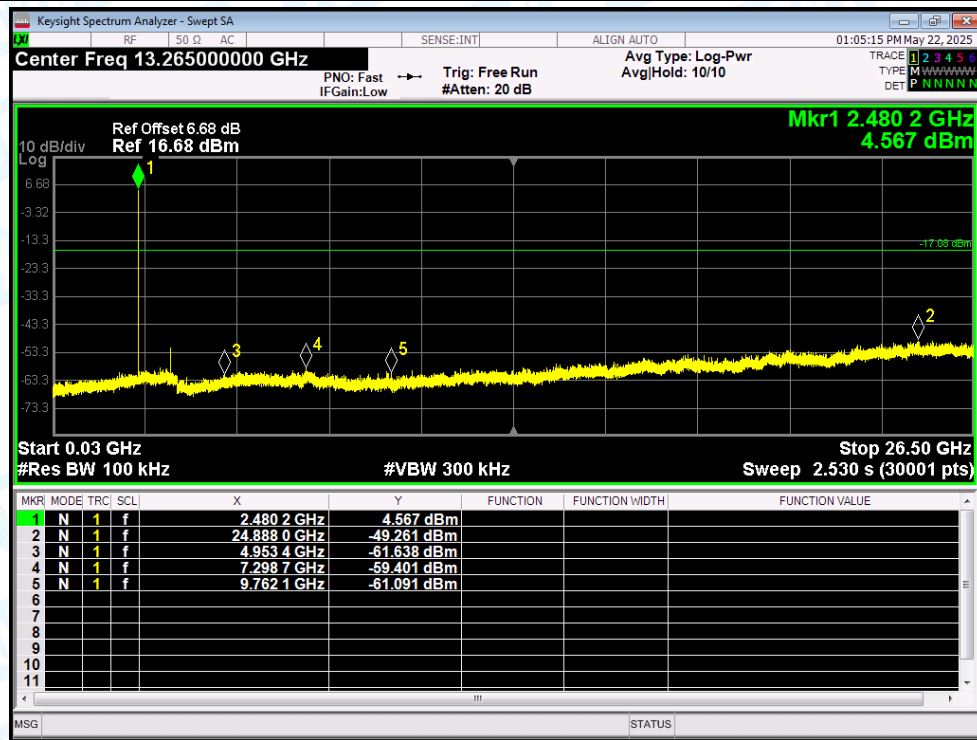
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



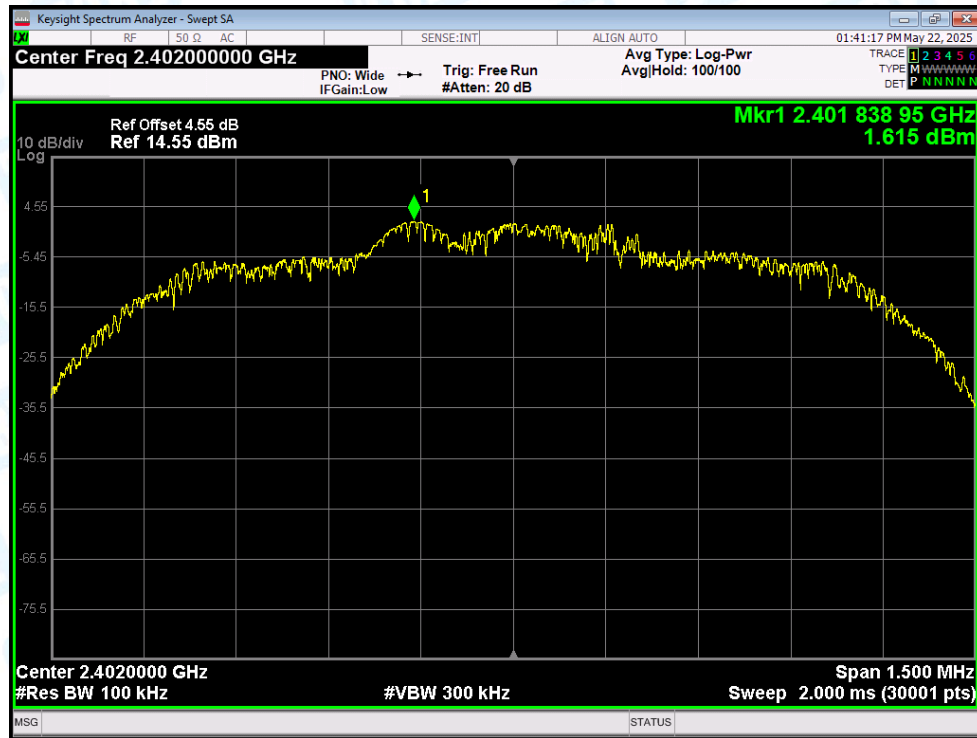
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



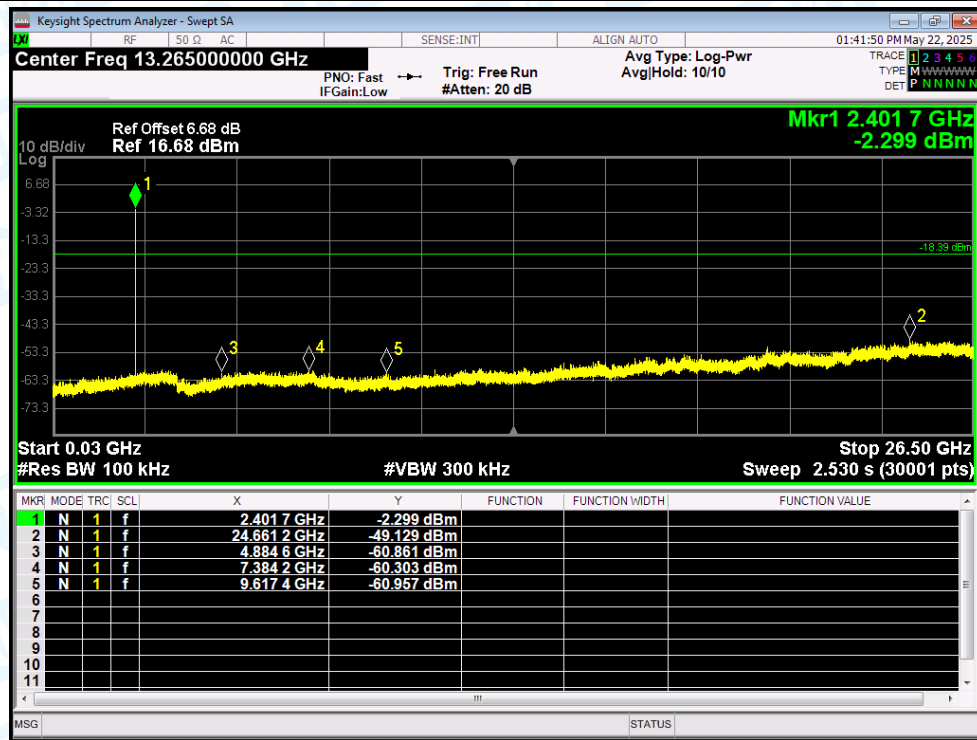
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



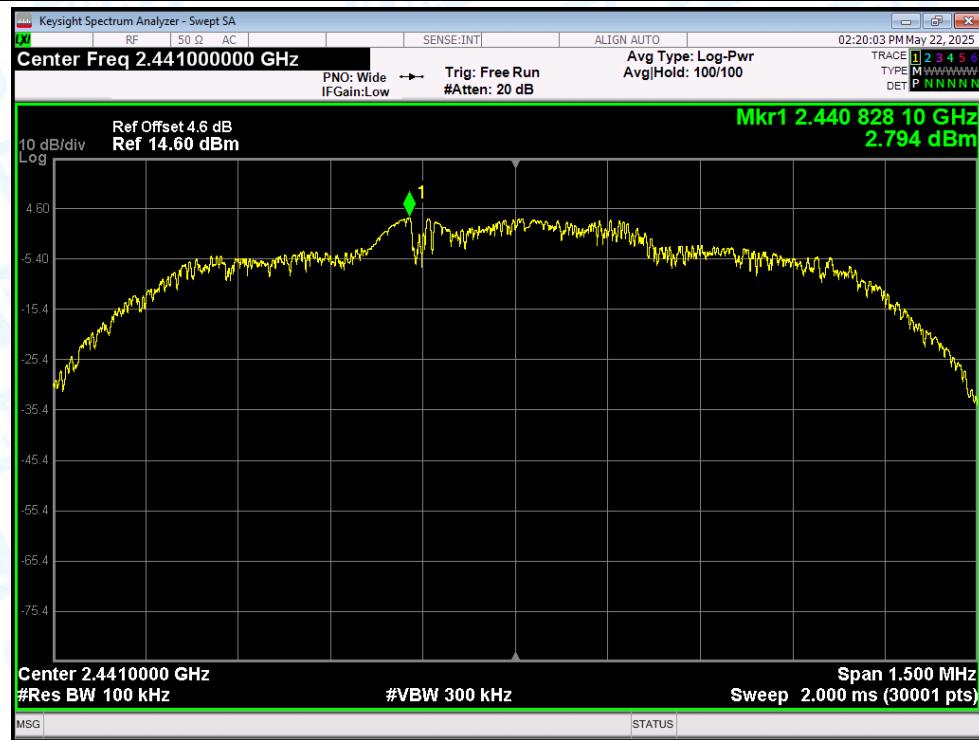
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



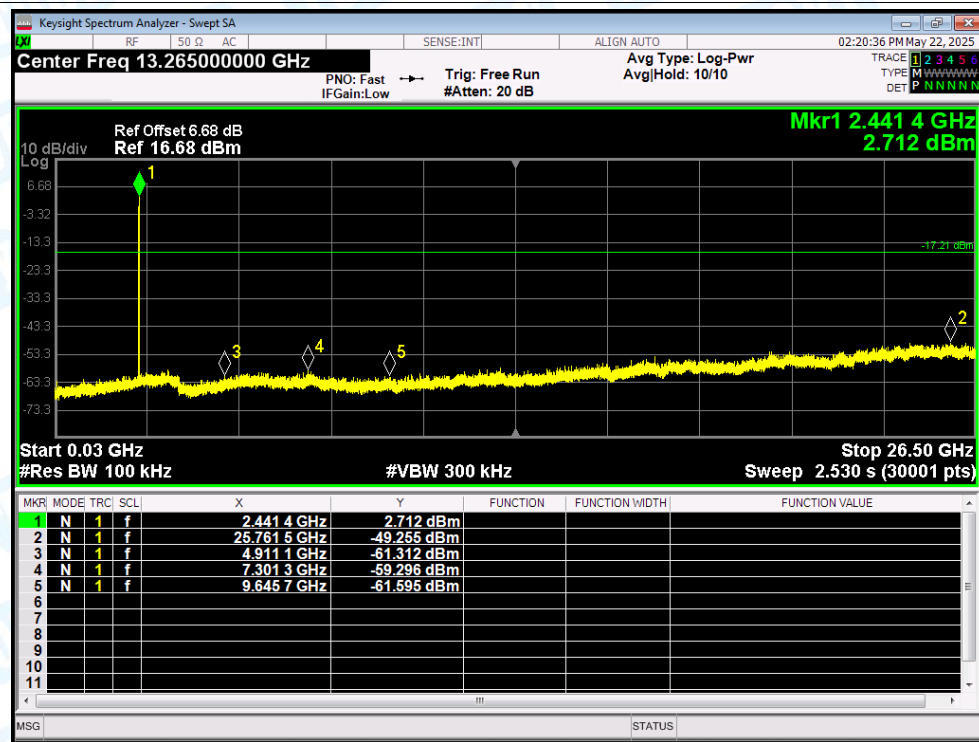
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



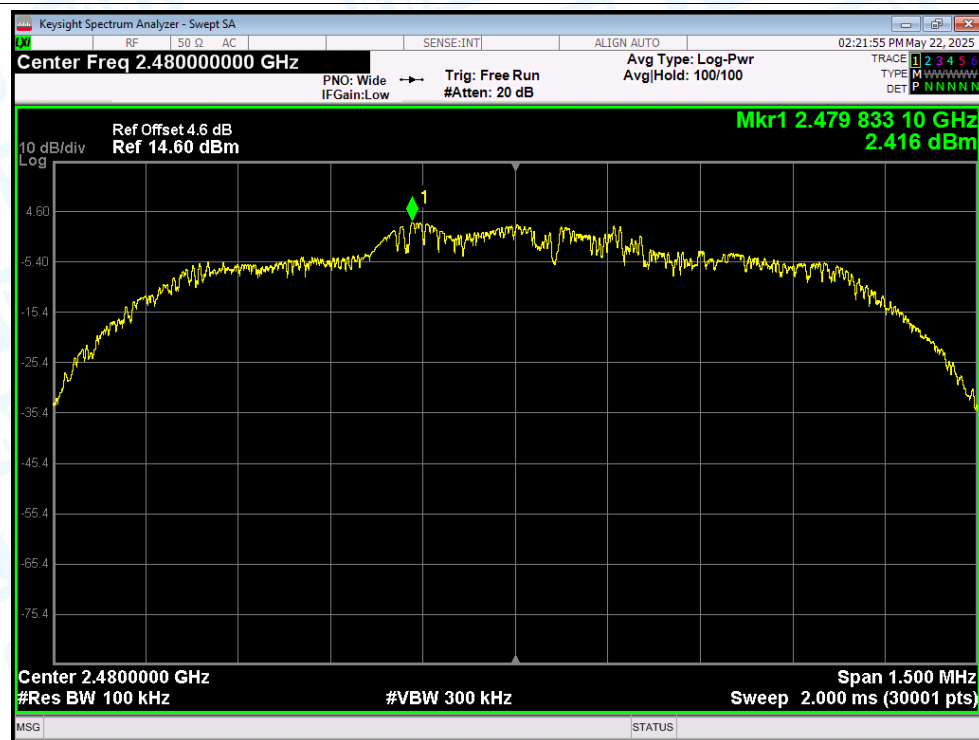
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



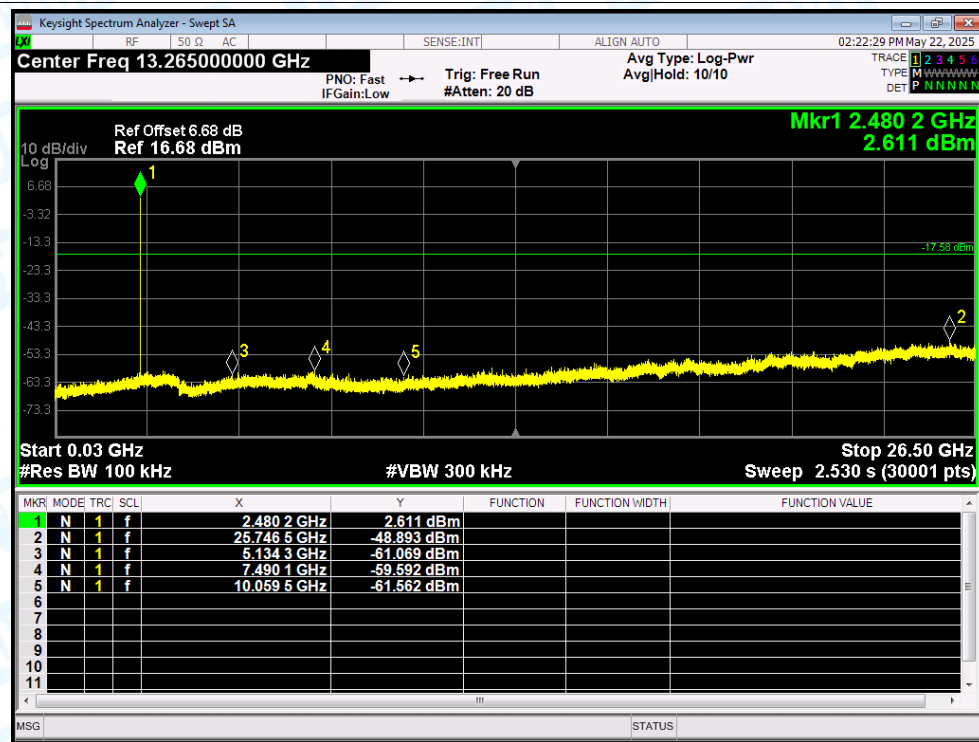
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



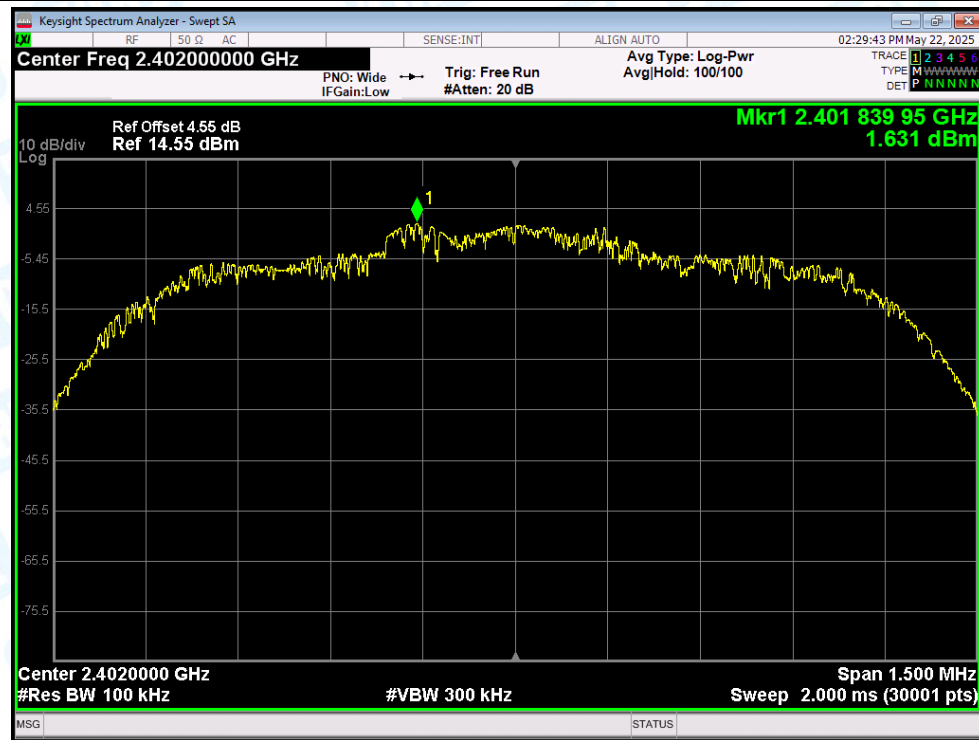
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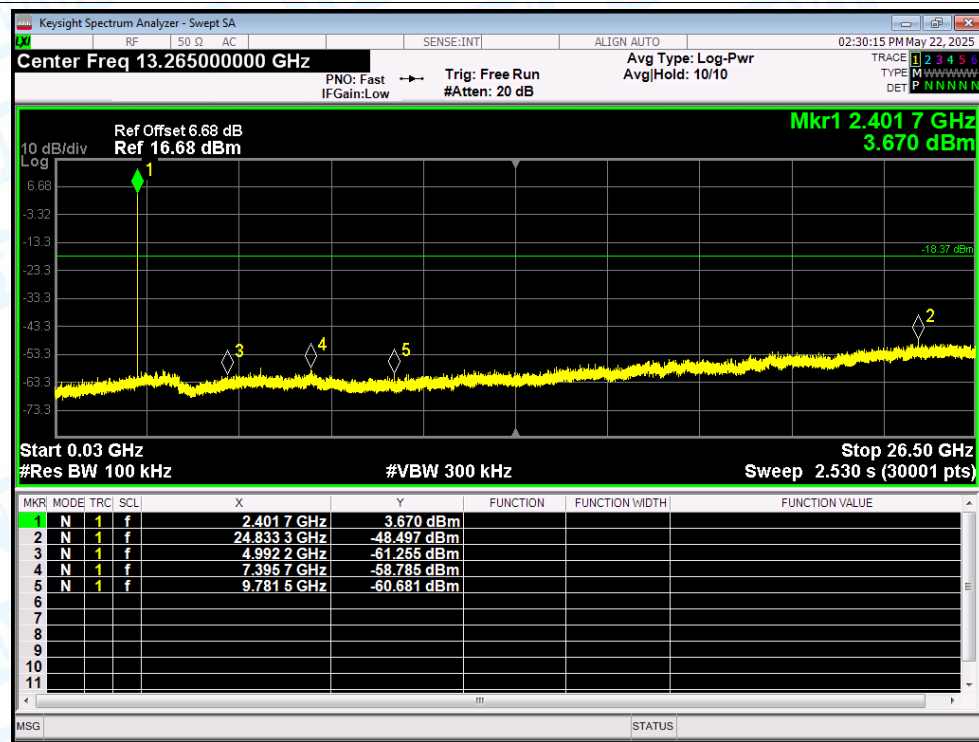
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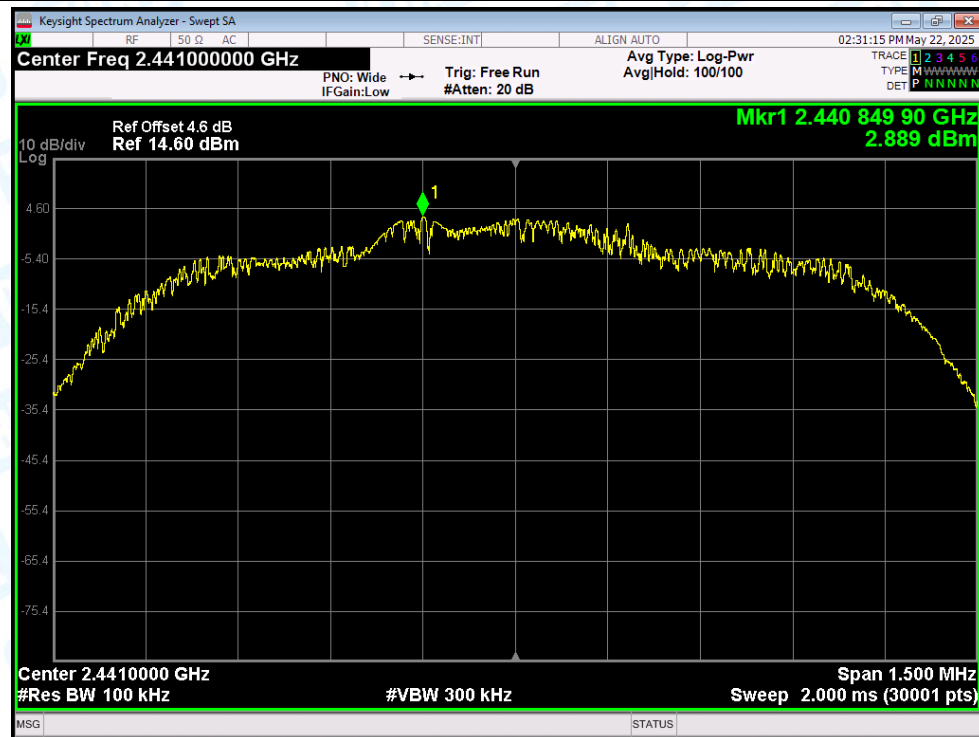
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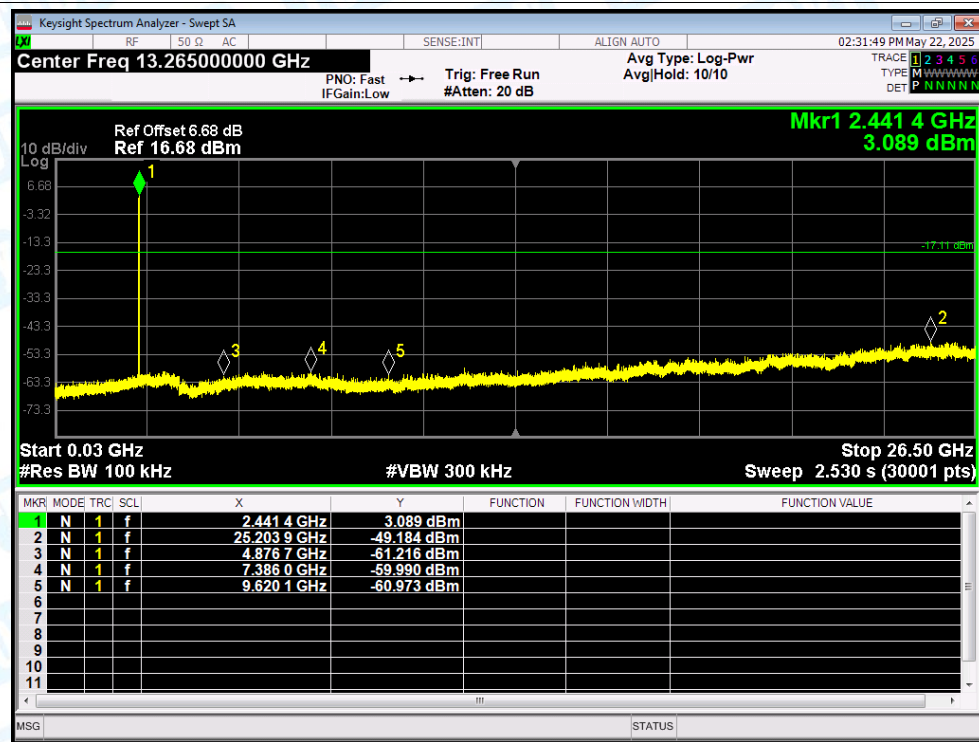
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission



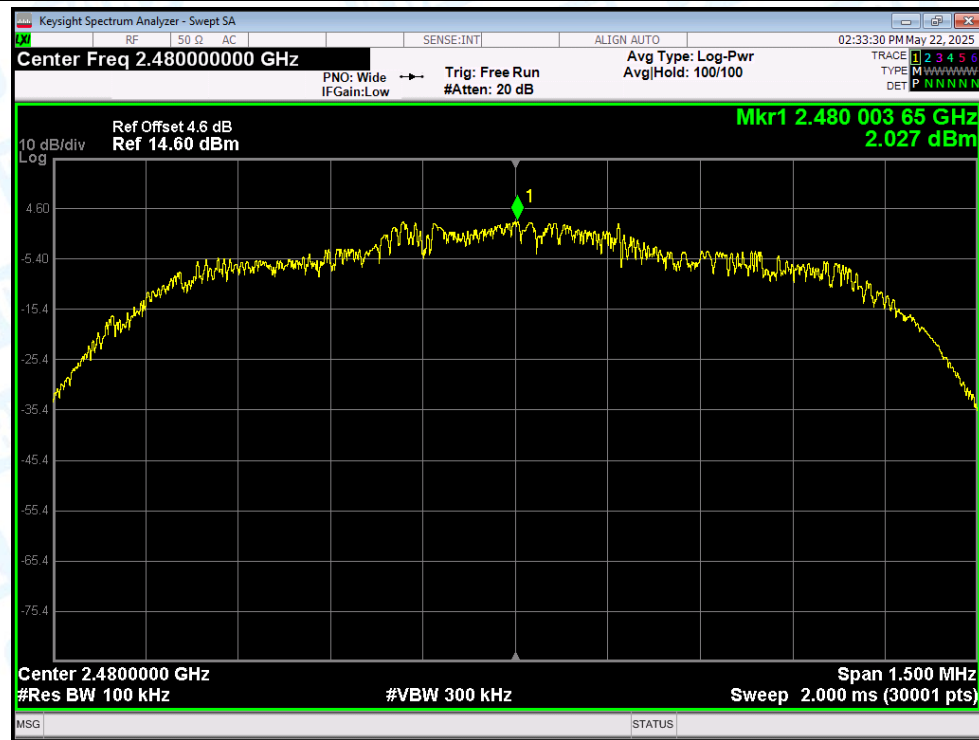
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Ref



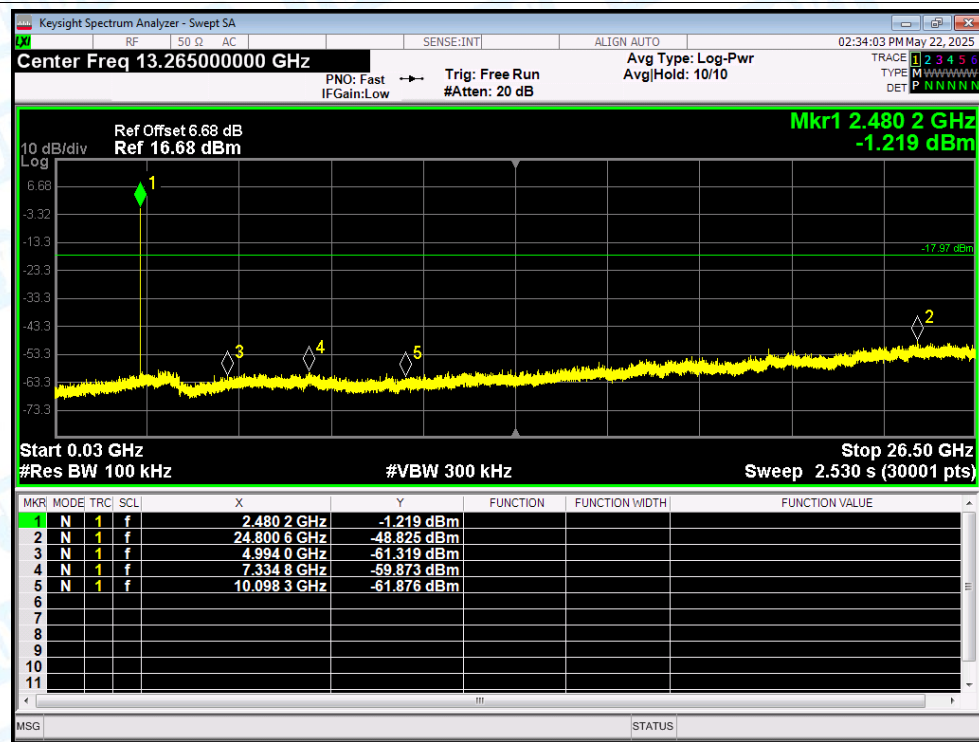
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

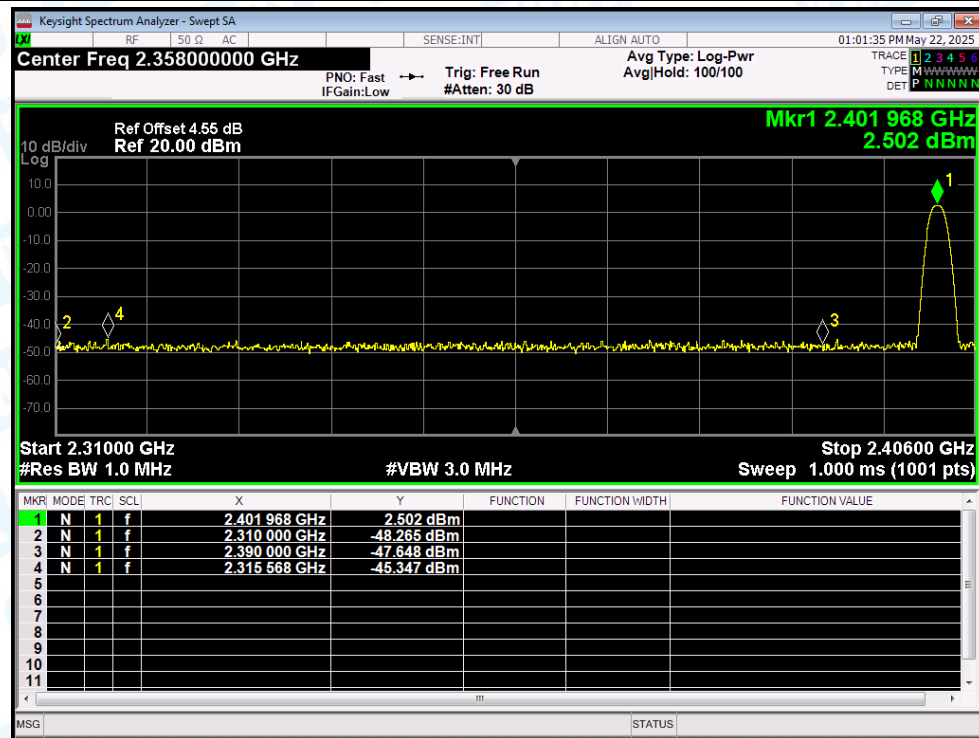


8. Restrict Band

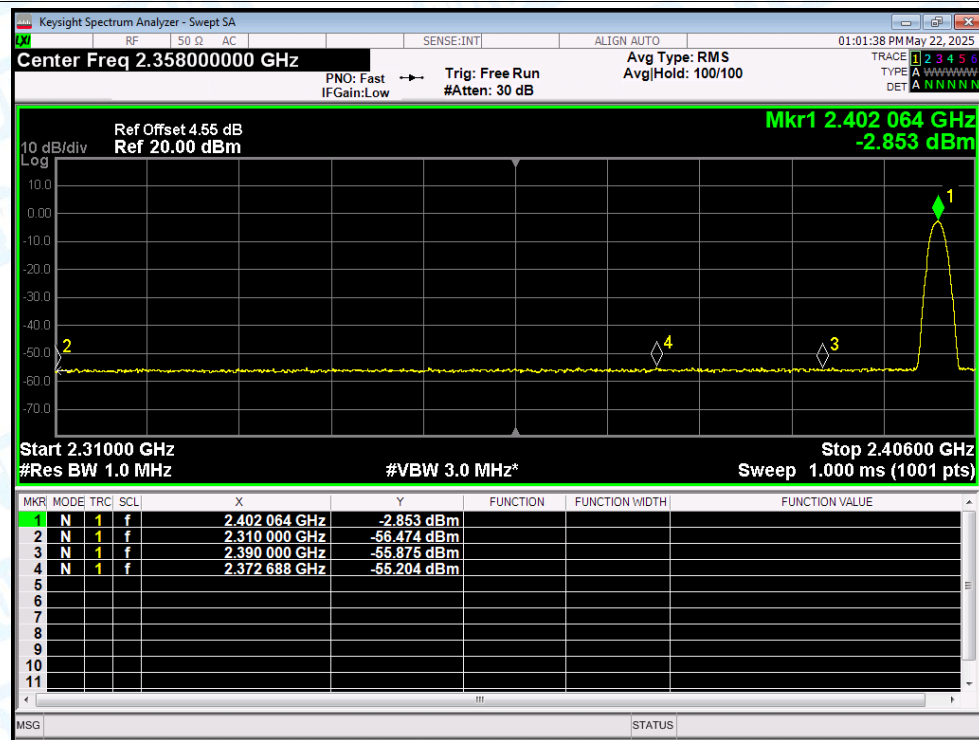
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-48.27	2	-	48.99	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-56.47	2	5.17	45.96	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2315.568	-45.35	2	-	51.91	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2372.688	-55.2	2	5.17	47.23	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-47.65	2	-	49.61	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-55.88	2	5.17	46.55	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-48.17	2	-	49.09	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-55.97	2	5.17	46.46	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2498.416	-44.67	2	-	52.59	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2496.232	-54.68	2	5.17	47.75	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-46.9	2	-	50.36	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-55.52	2	5.17	46.91	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-48.3	2	-	48.96	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-56.22	2	5.06	46.1	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2322.288	-45.36	2	-	51.9	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2367.792	-55.37	2	5.06	46.95	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-46.26	2	-	51	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-55.89	2	5.06	46.43	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-47.22	2	-	50.04	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-55.32	2	5.06	47	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2485.6	-44.13	2	-	53.13	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2491.24	-54.56	2	5.06	47.76	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-47.24	2	-	50.02	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-55.68	2	5.06	46.64	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-48.19	2	-	49.07	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-56.48	2	5.17	45.95	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2332.656	-45.54	2	-	51.72	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2373.552	-55.29	2	5.17	47.14	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-47.27	2	-	49.99	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-56.36	2	5.17	46.07	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-47.67	2	-	49.59	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-56.08	2	5.06	46.24	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2498.272	-44.5	2	-	52.76	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2484.904	-54.82	2	5.06	47.5	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-47.73	2	-	49.53	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-56.12	2	5.06	46.2	Average	54	Pass

Test Graphs

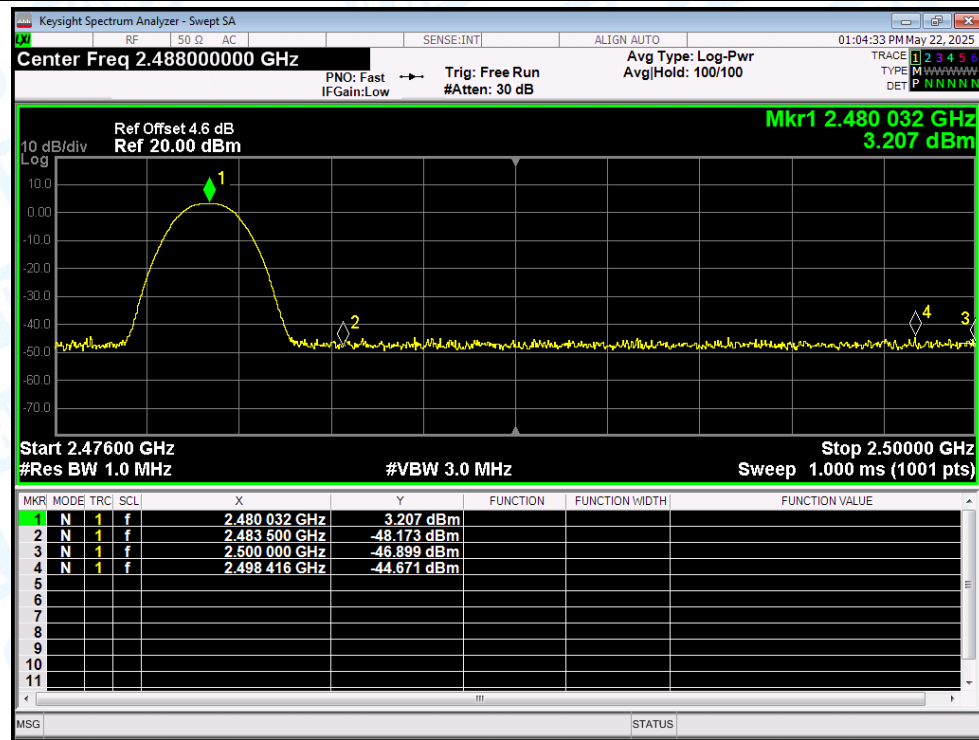
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



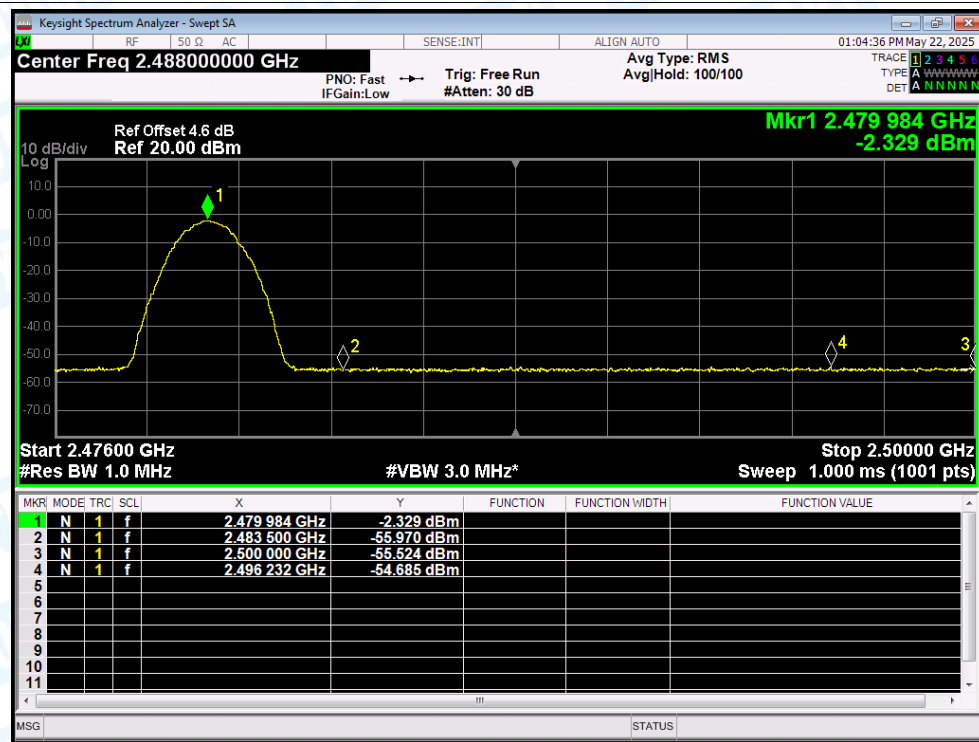
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



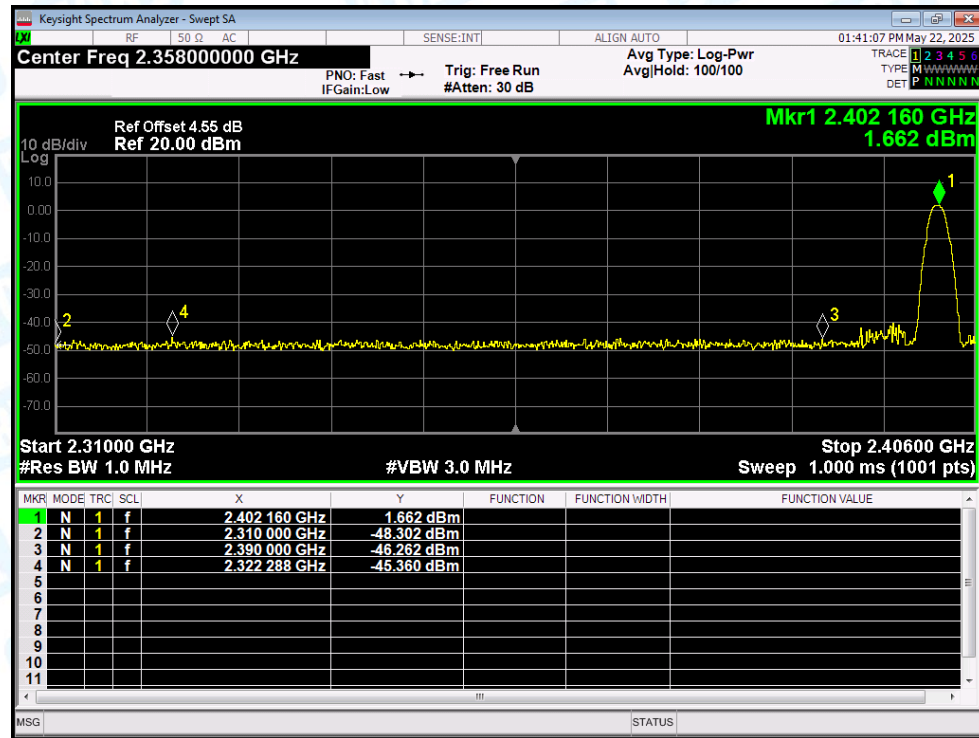
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



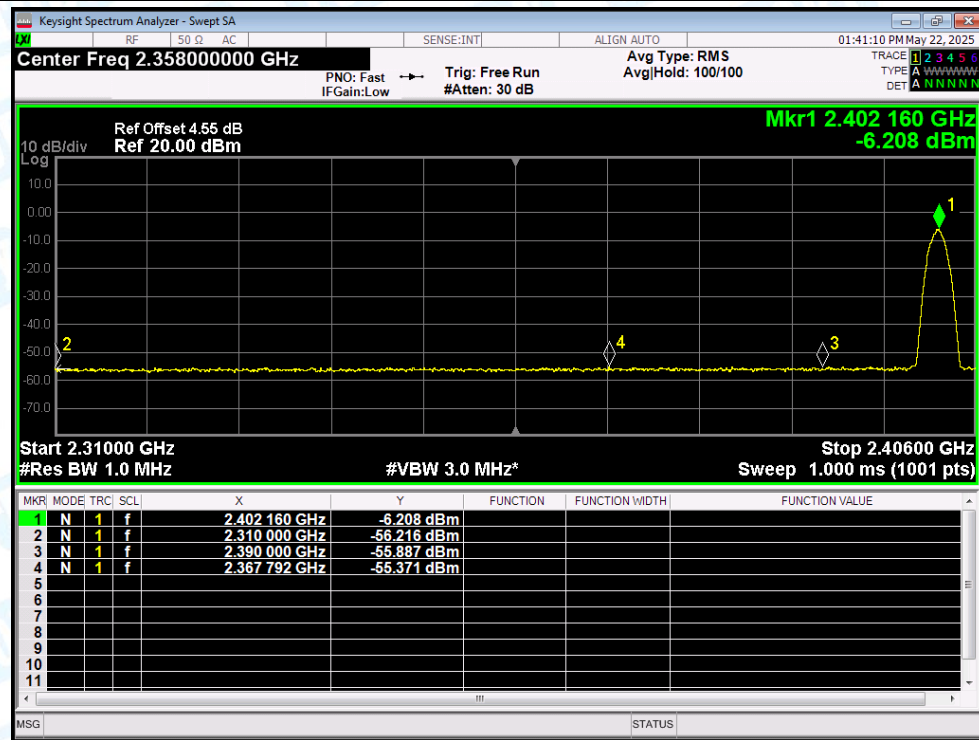
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



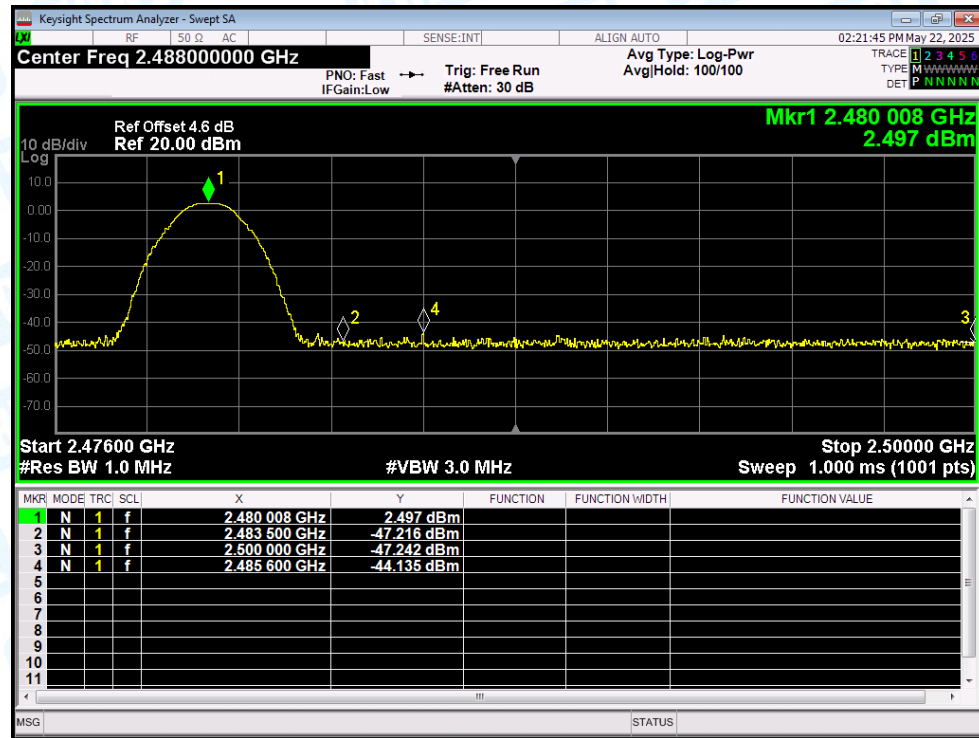
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



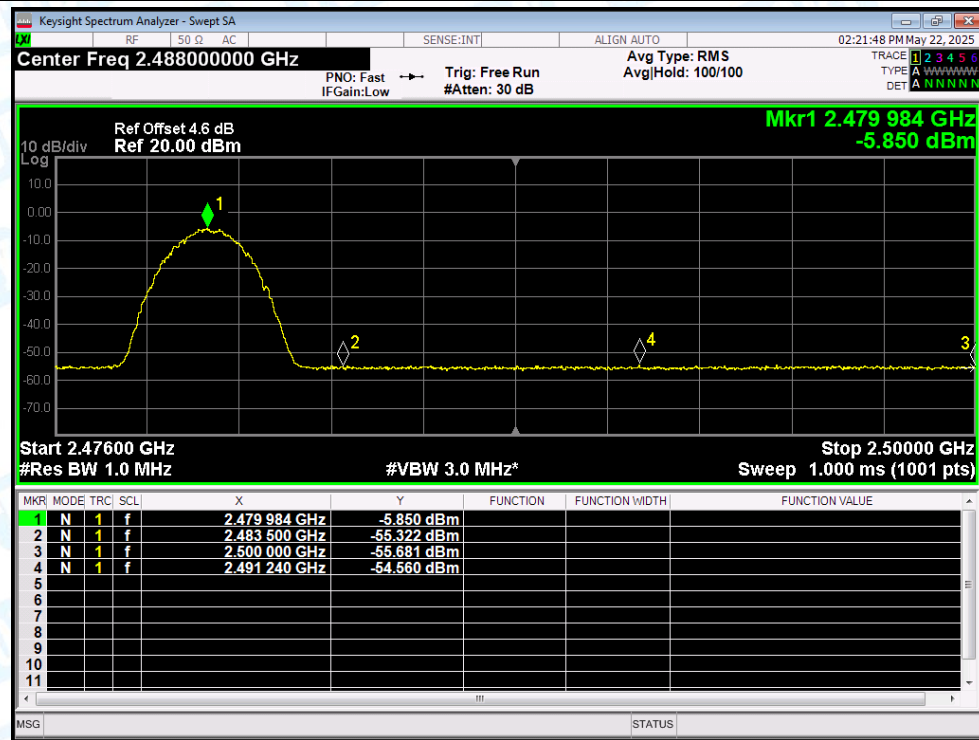
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Average



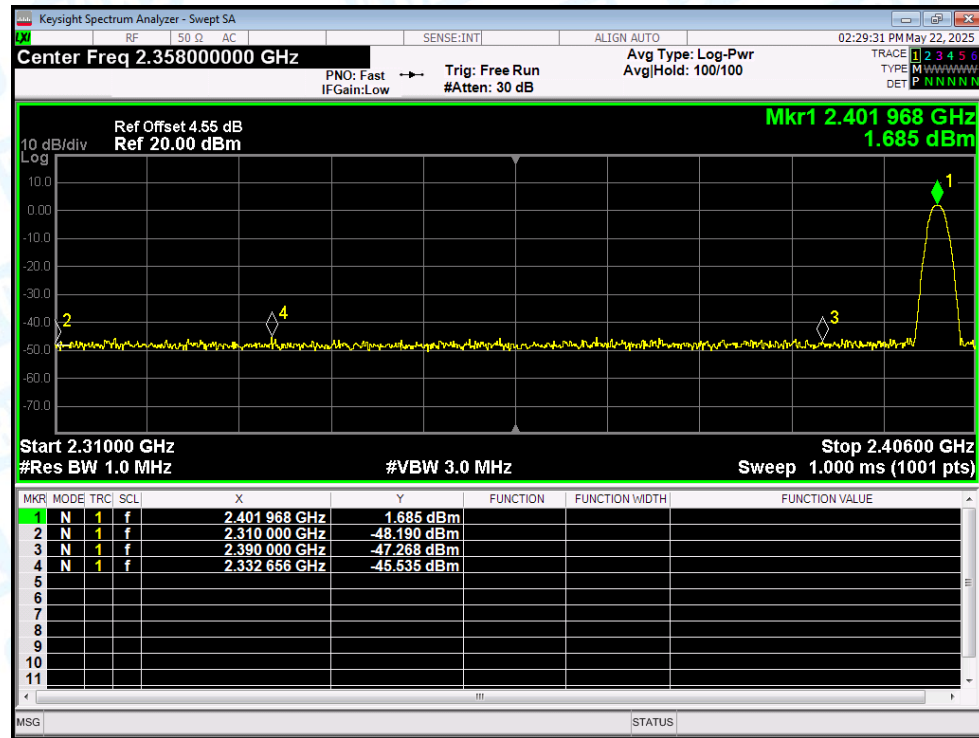
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak



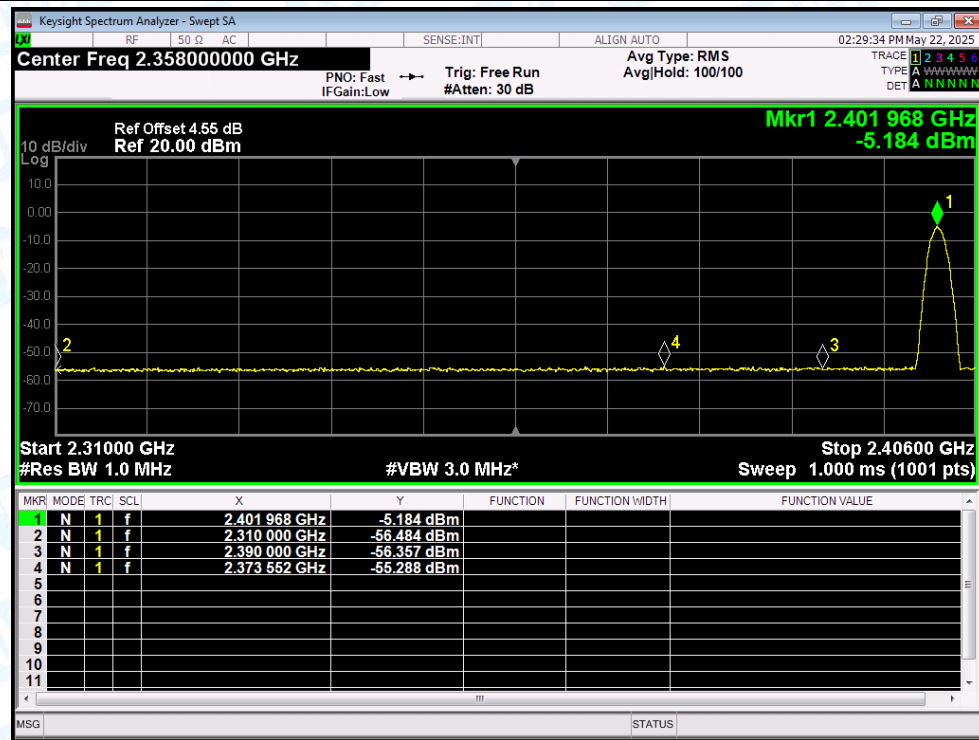
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Average



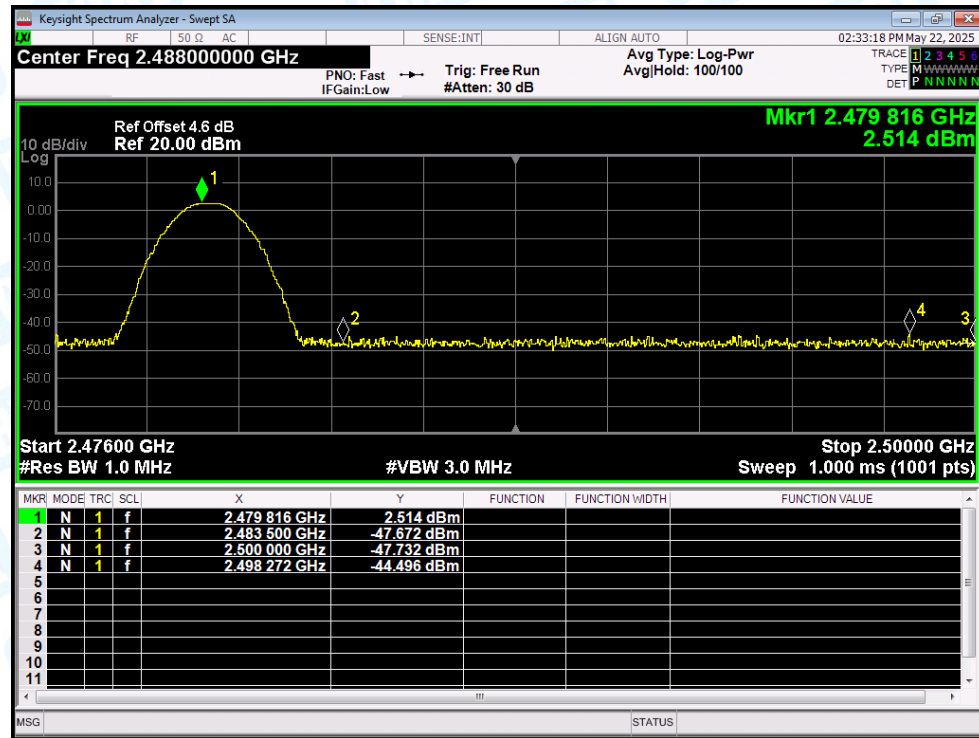
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Peak



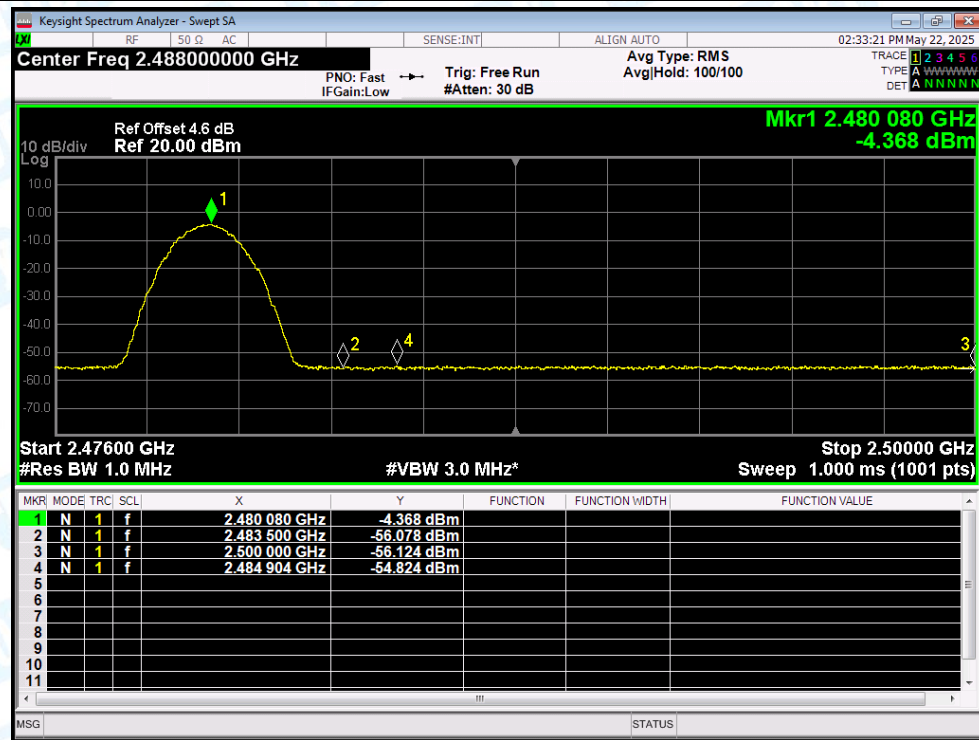
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Average



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



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

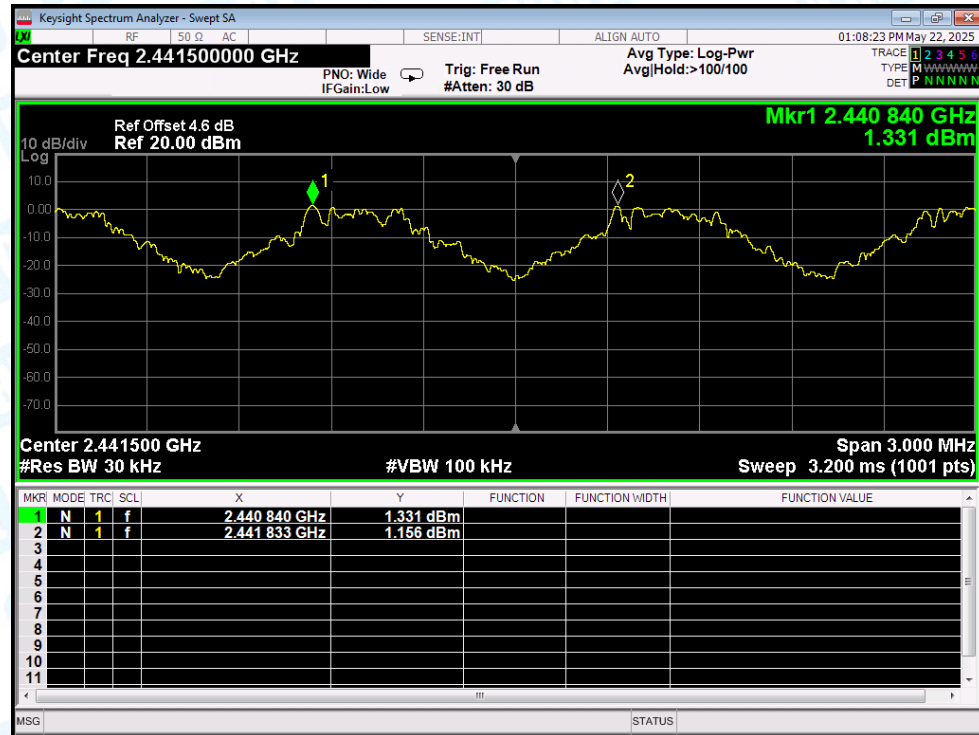


9. Carrier Frequencies Separation

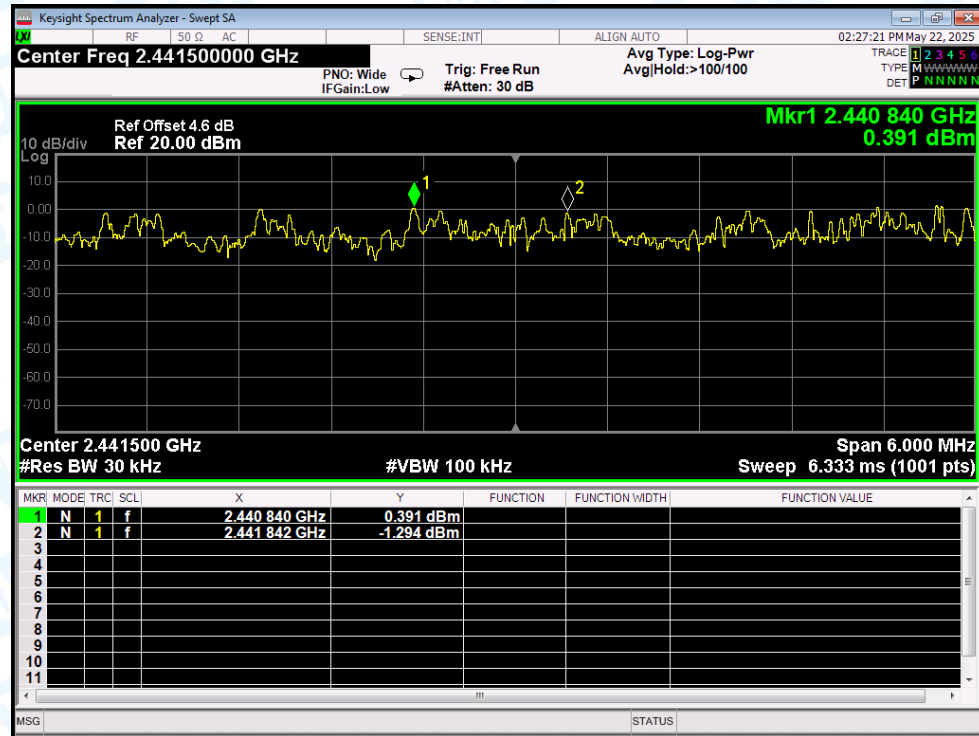
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2440.84	2441.833	0.993	0.54	Pass
NVNT	2-DH1	Ant1	2440.84	2441.842	1.002	0.82	Pass
NVNT	3-DH1	Ant1	2440.996	2441.836	0.84	0.827	Pass

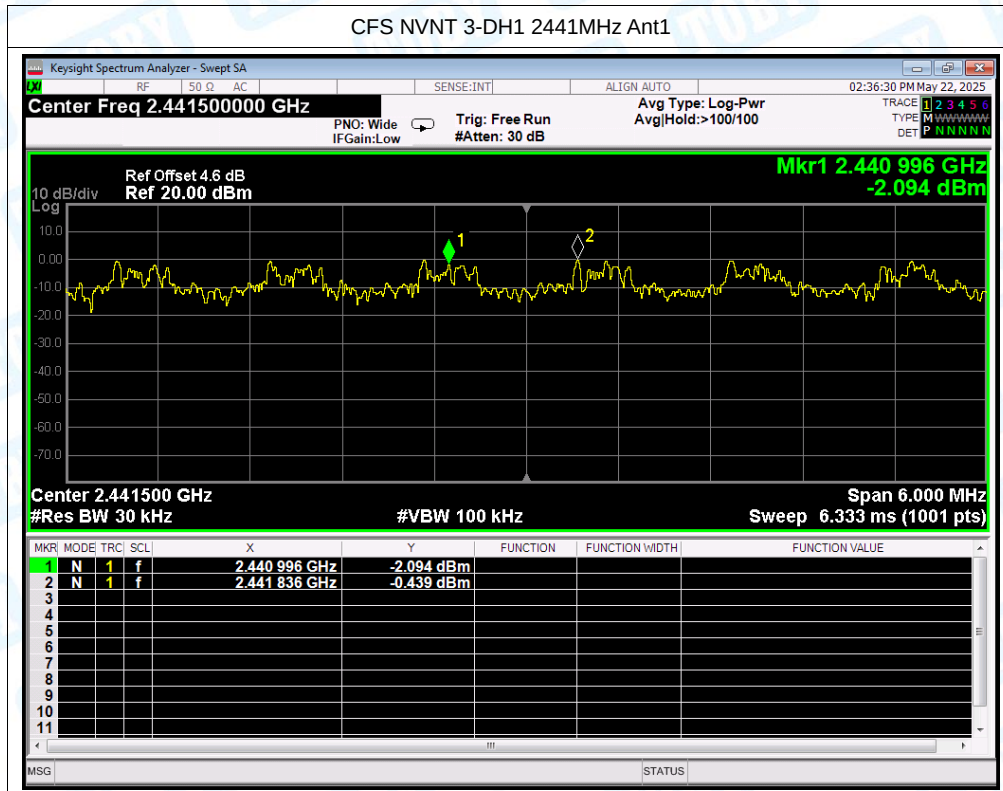
Test Graphs

CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1



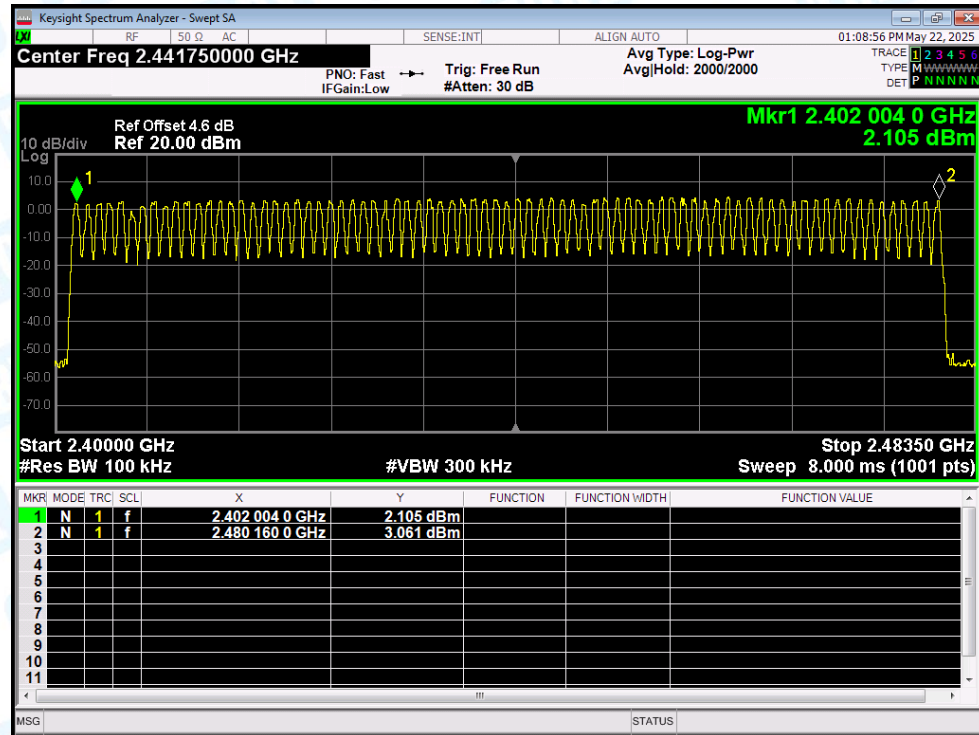


10. Number of Hopping Channel

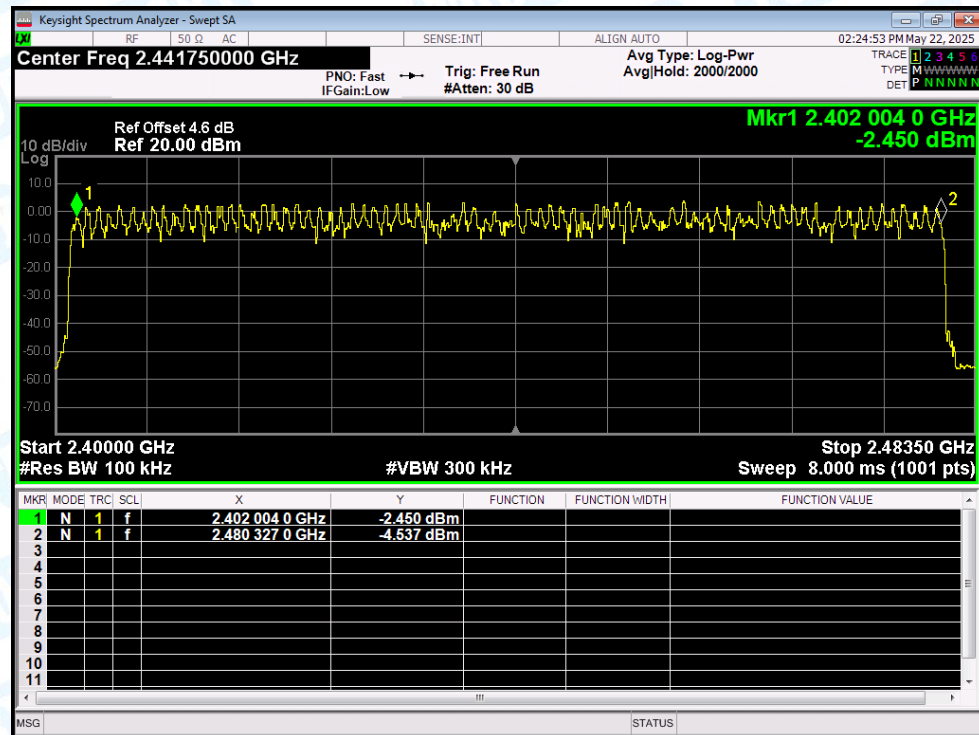
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

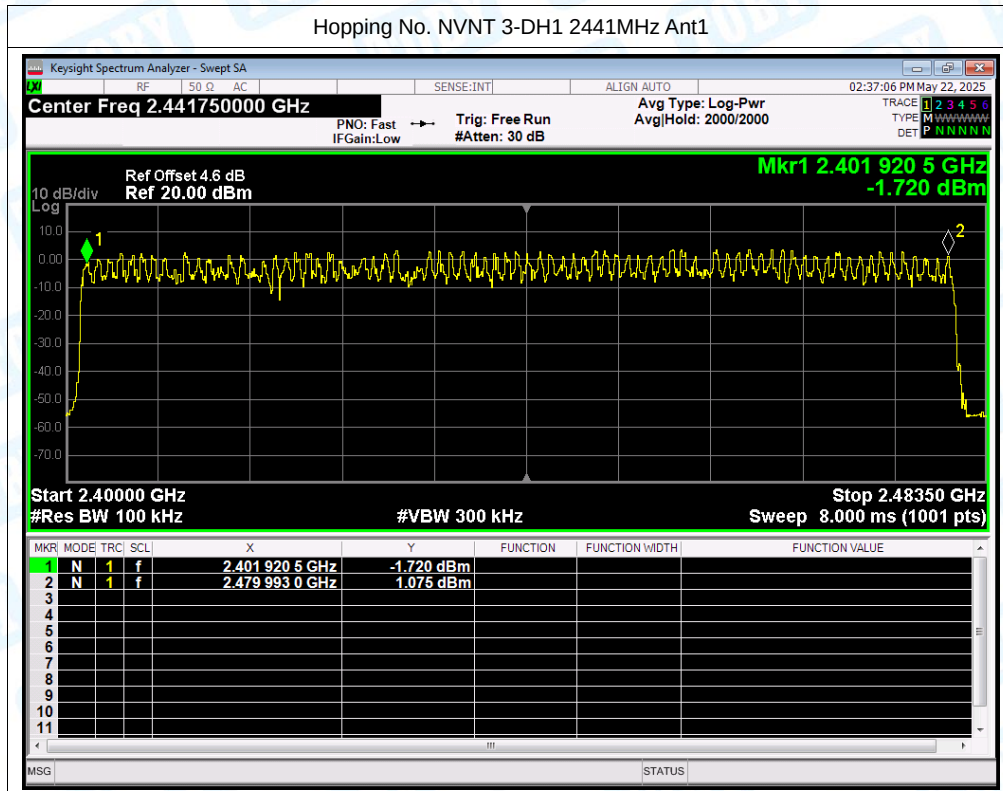
Test Graphs

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1



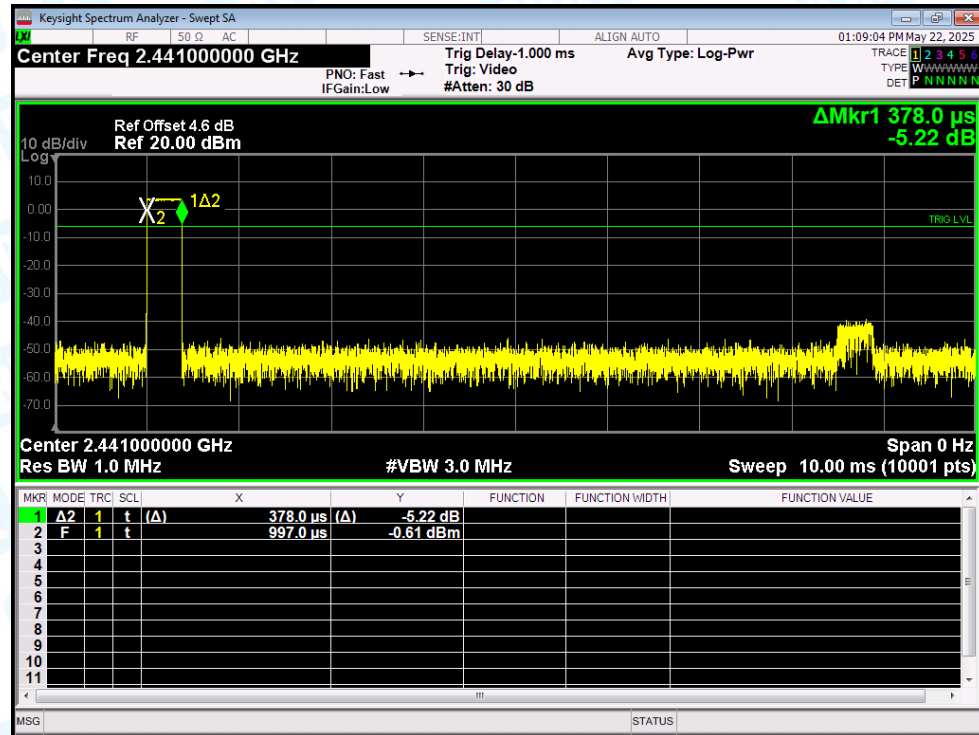


11. Dwell Time

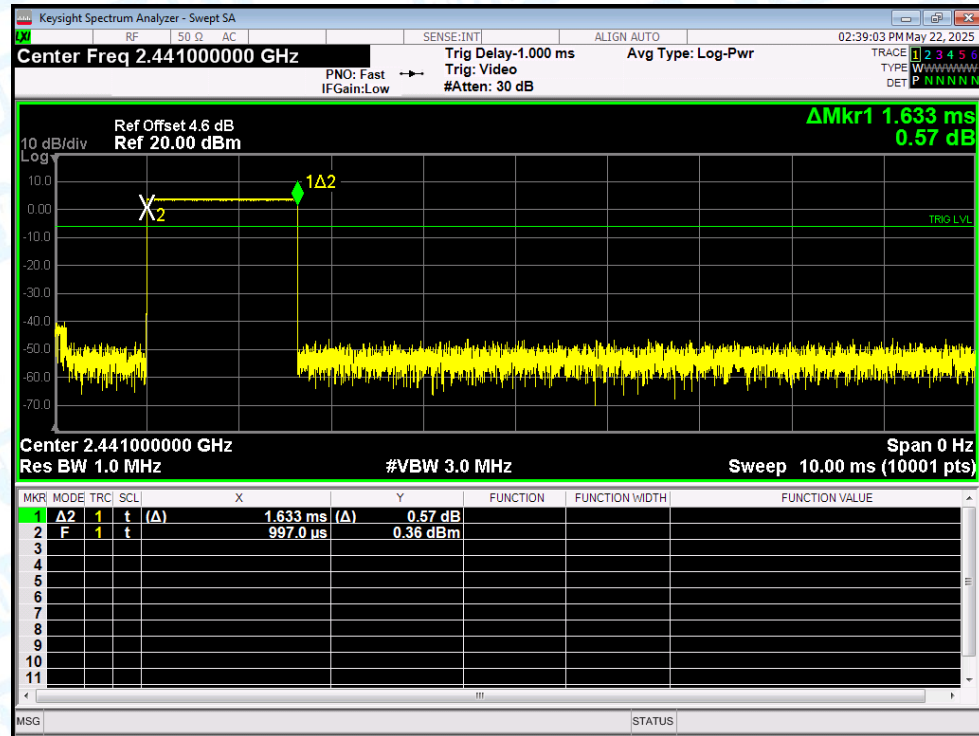
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.378	120.96	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.633	261.28	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.882	307.413	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.385	123.2	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.637	261.92	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.885	307.733	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.386	123.52	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.636	261.76	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.887	307.947	31600	400	Pass

Test Graphs

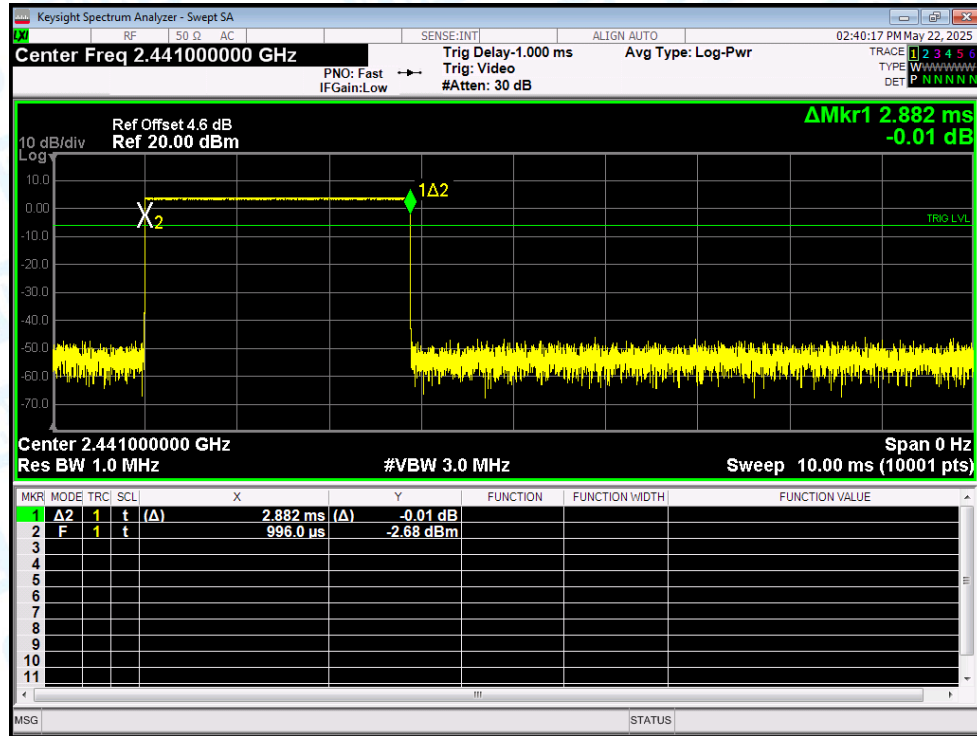
Dwell NVNT 1-DH1 2441MHz Ant1



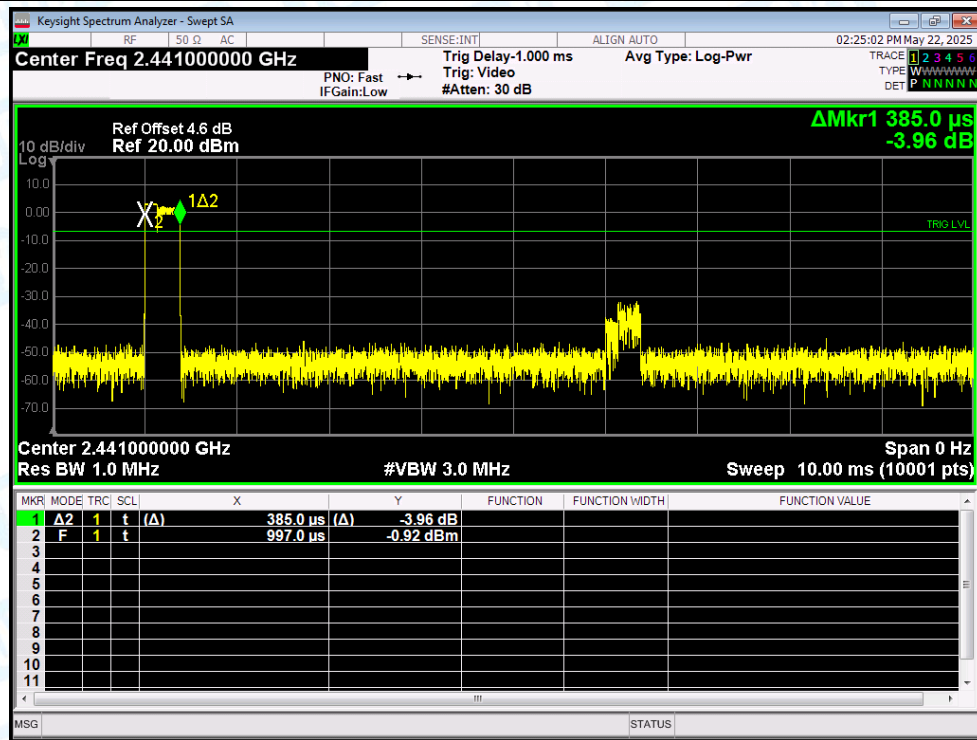
Dwell NVNT 1-DH3 2441MHz Ant1



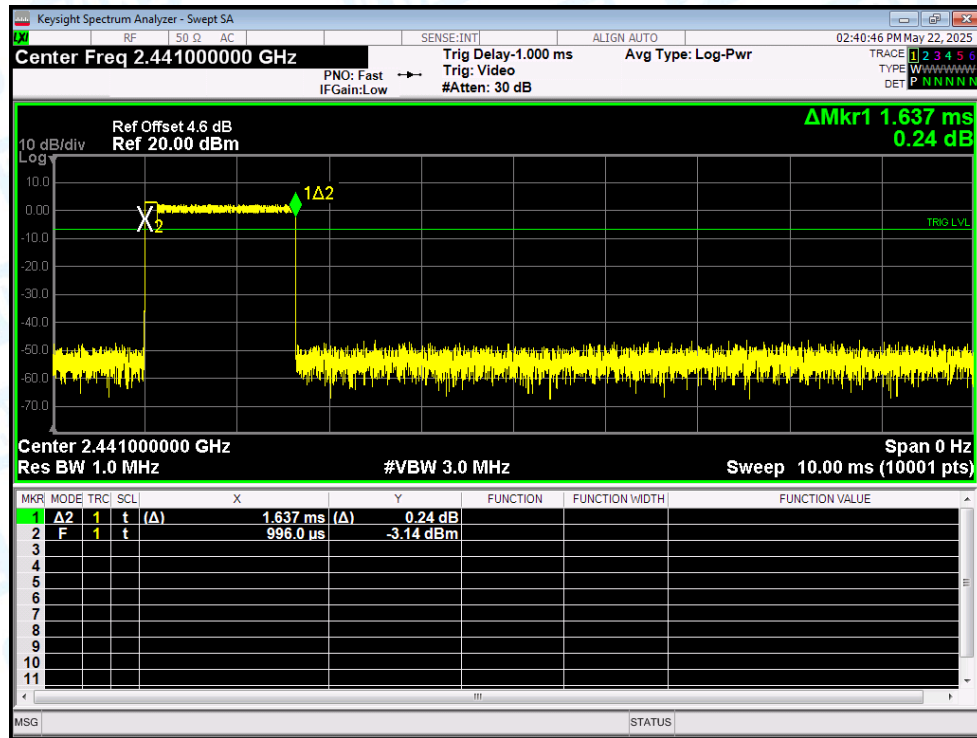
Dwell NVNT 1-DH5 2441MHz Ant1



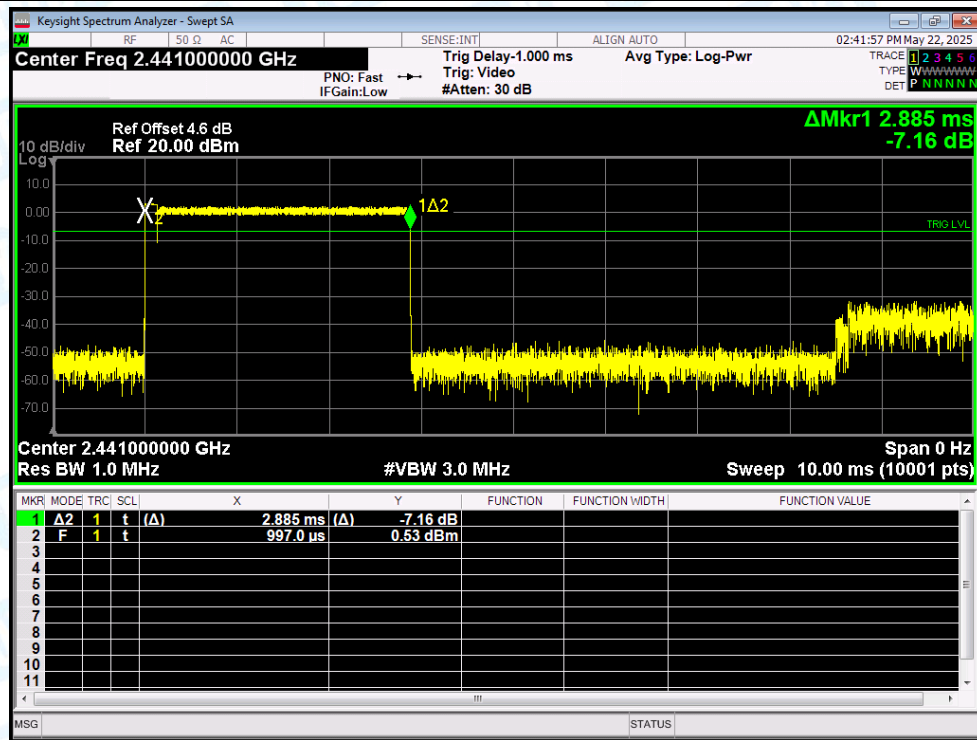
Dwell NVNT 2-DH1 2441MHz Ant1



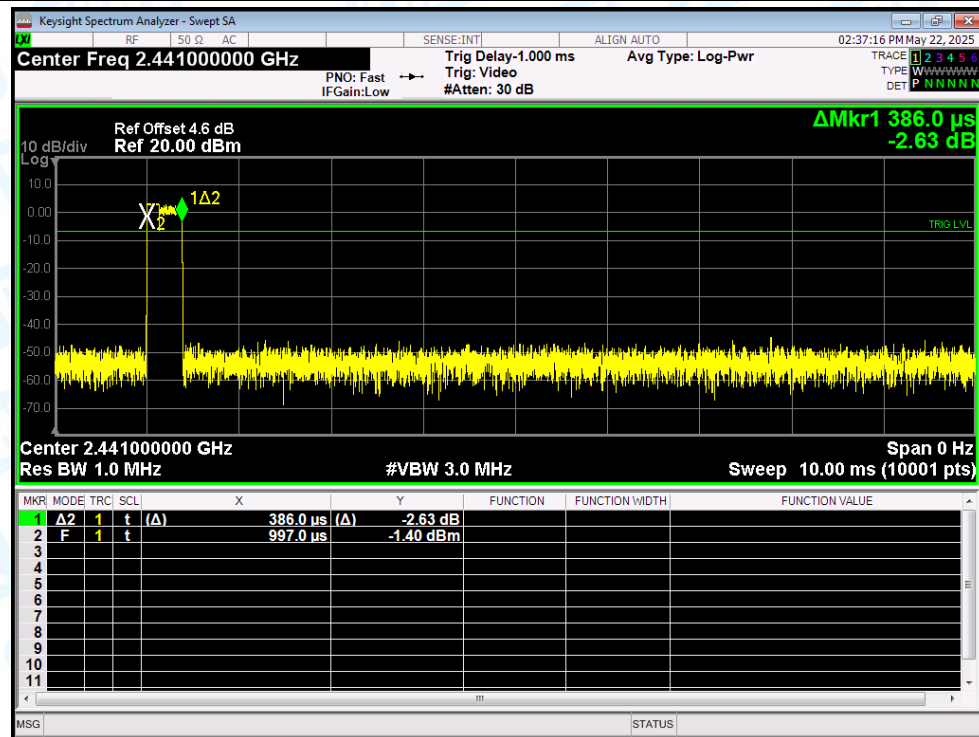
Dwell NVNT 2-DH3 2441MHz Ant1



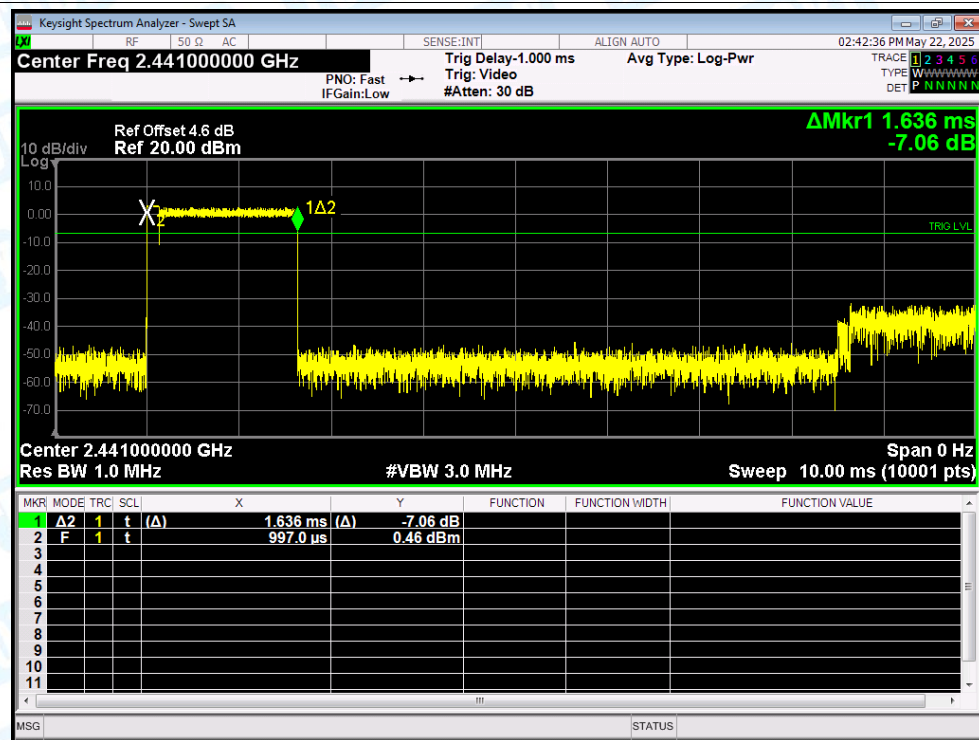
Dwell NVNT 2-DH5 2441MHz Ant1

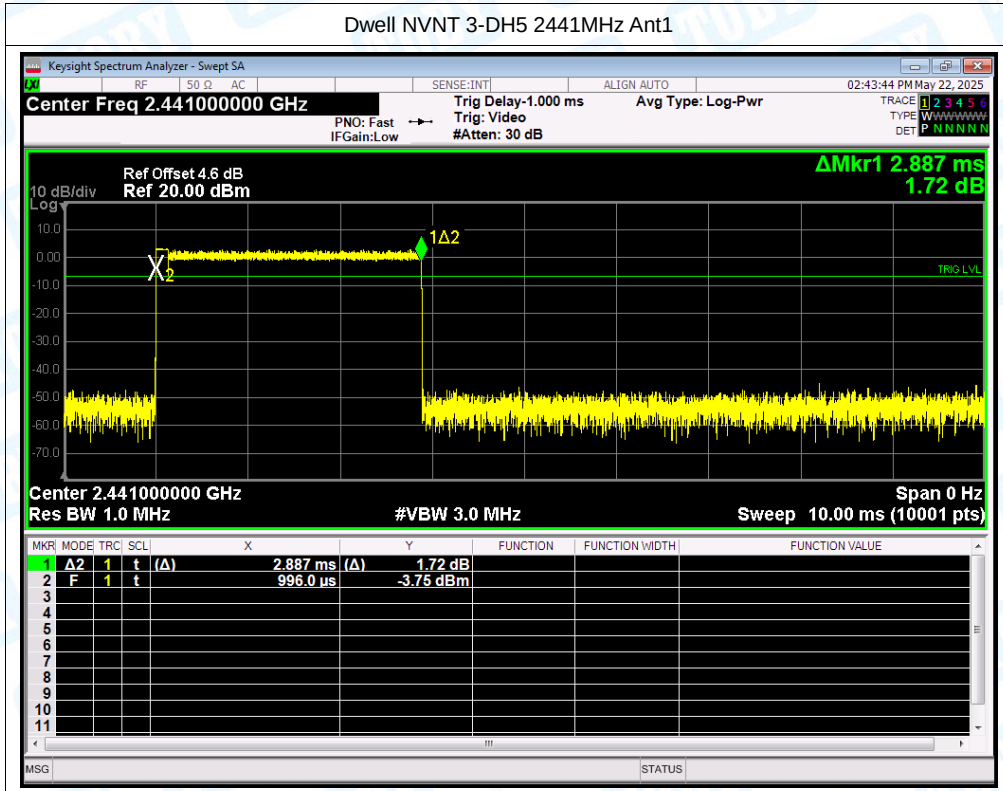


Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1





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