

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

General Description of EUT	
Product Name:	MICKEY MOUSE COLLECTION TWS BLUETOOTH EARPHONES
Test Model:	YB035
Sample ID:	202307-0314-6-2#
Environmental Conditions	
Temperature:	25℃
Relative Humidity:	55%
Test Voltage:	DC 3.7V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202307-0314-61 The report only show the worst case data.	

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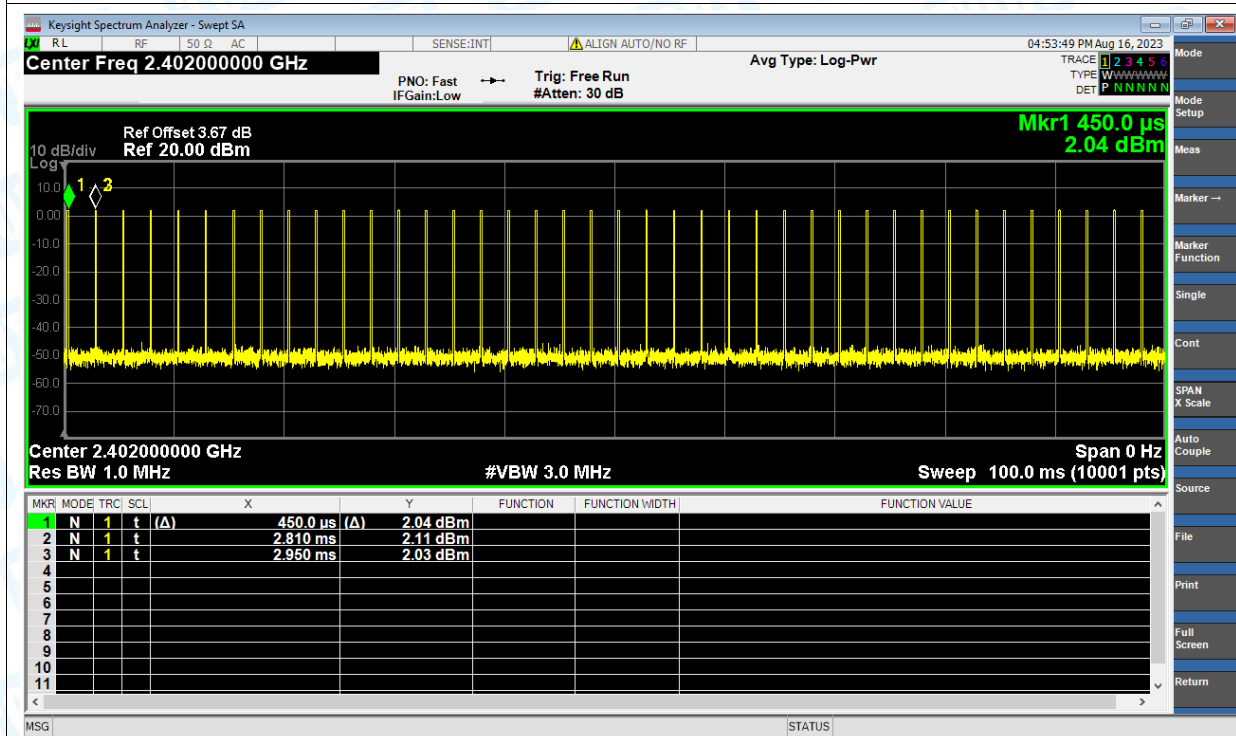
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1. Duty Cycle

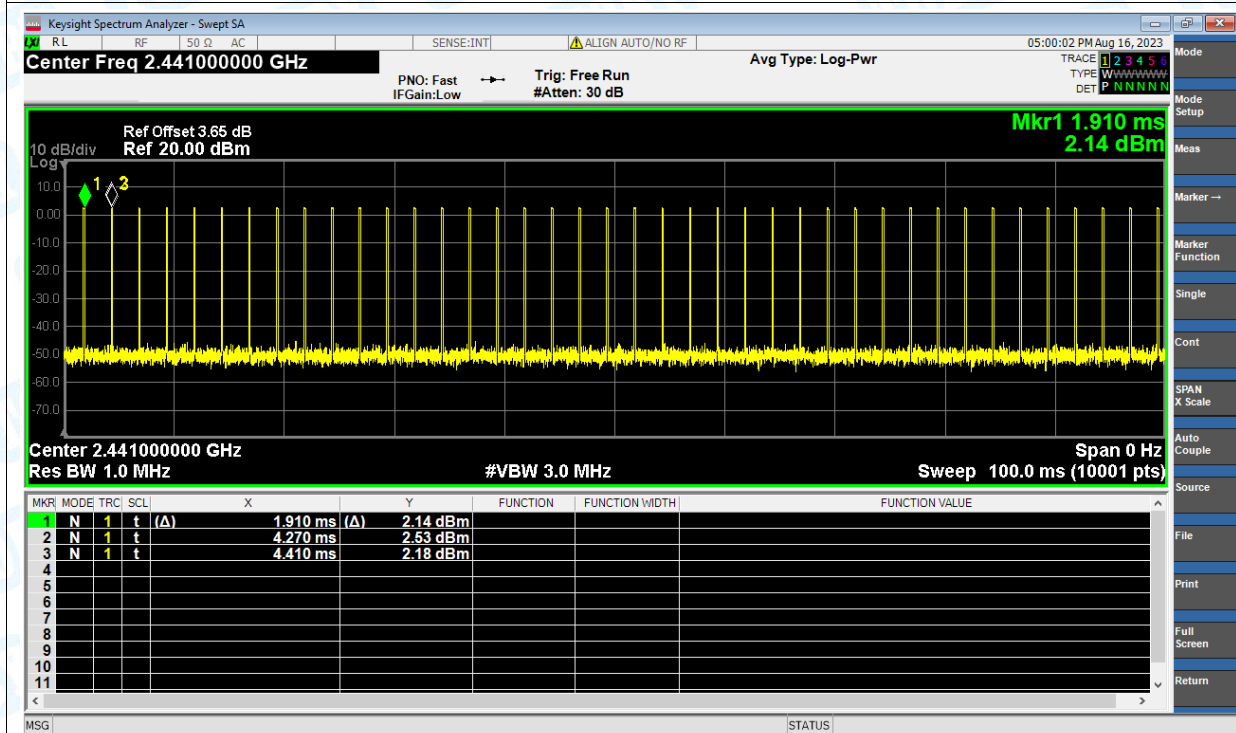
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	5.6	12.52	7.14
NVNT	1-DH1	2441	Ant1	5.6	12.52	7.14
NVNT	1-DH1	2480	Ant1	30.4	5.17	2.63
NVNT	2-DH1	2402	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2441	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2480	Ant1	31.2	5.06	2.56

Test Graphs

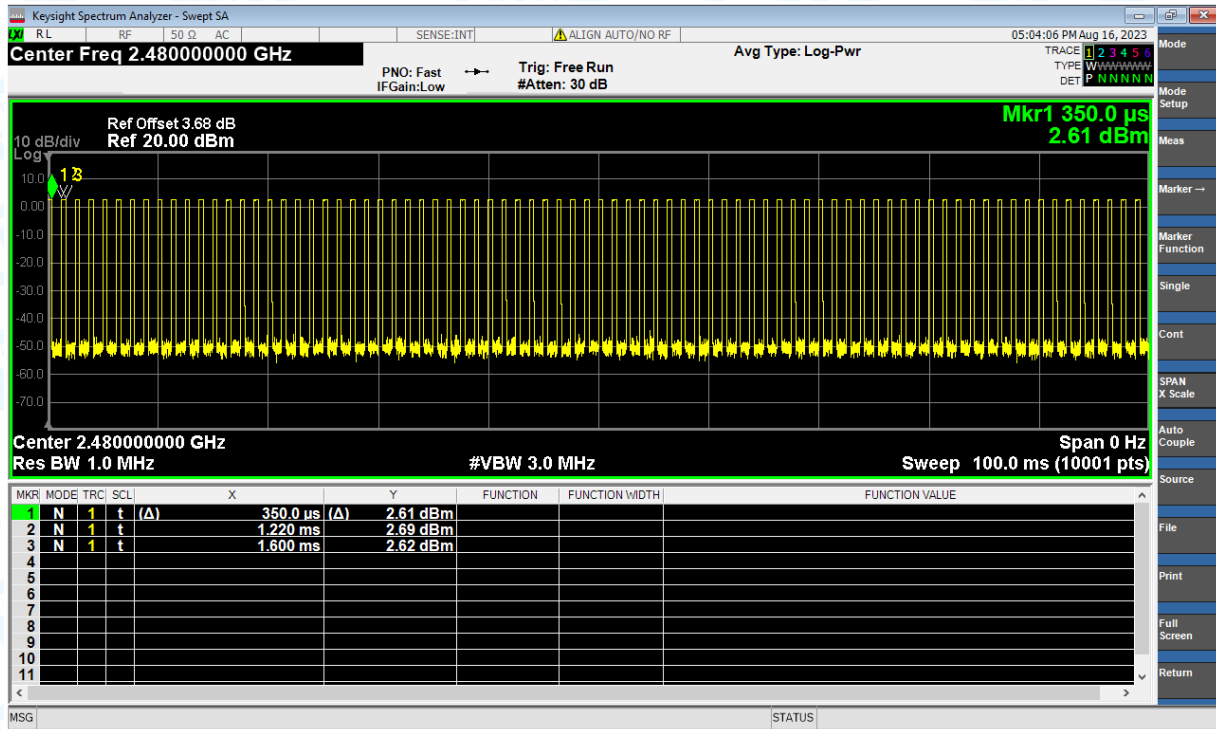
Duty Cycle NVNT 1-DH1 2402MHz Ant1



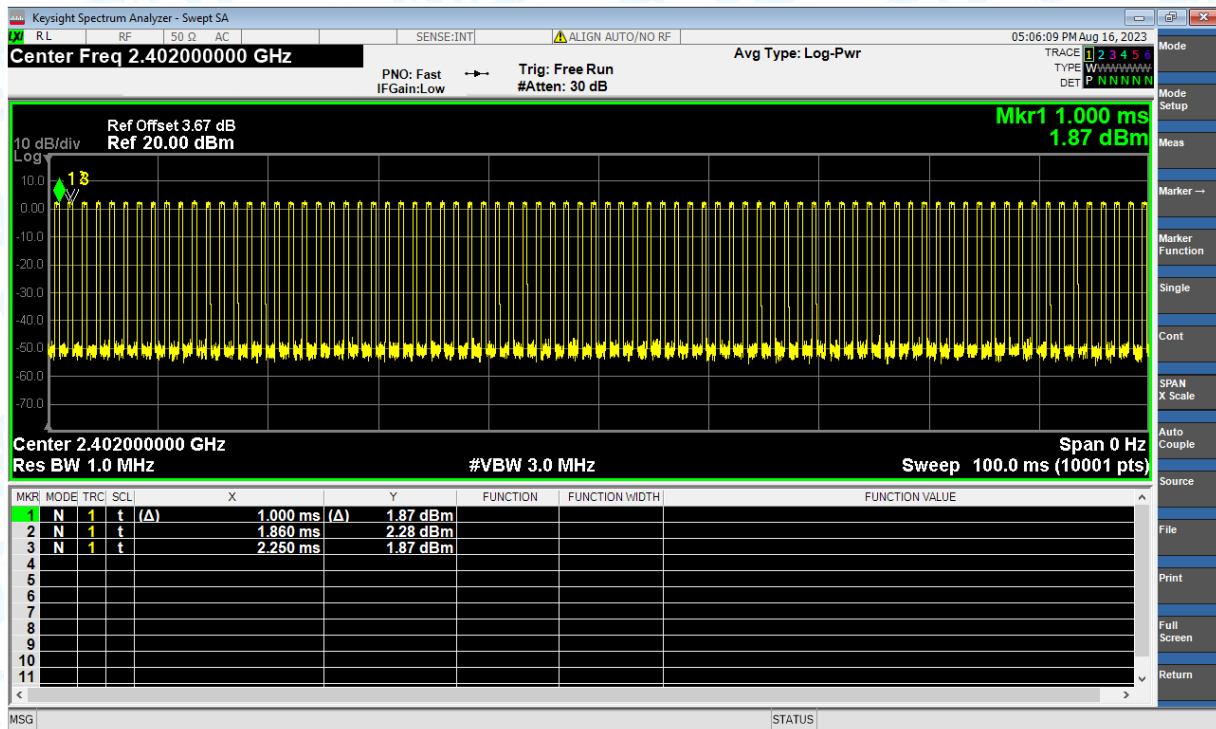
Duty Cycle NVNT 1-DH1 2441MHz Ant1



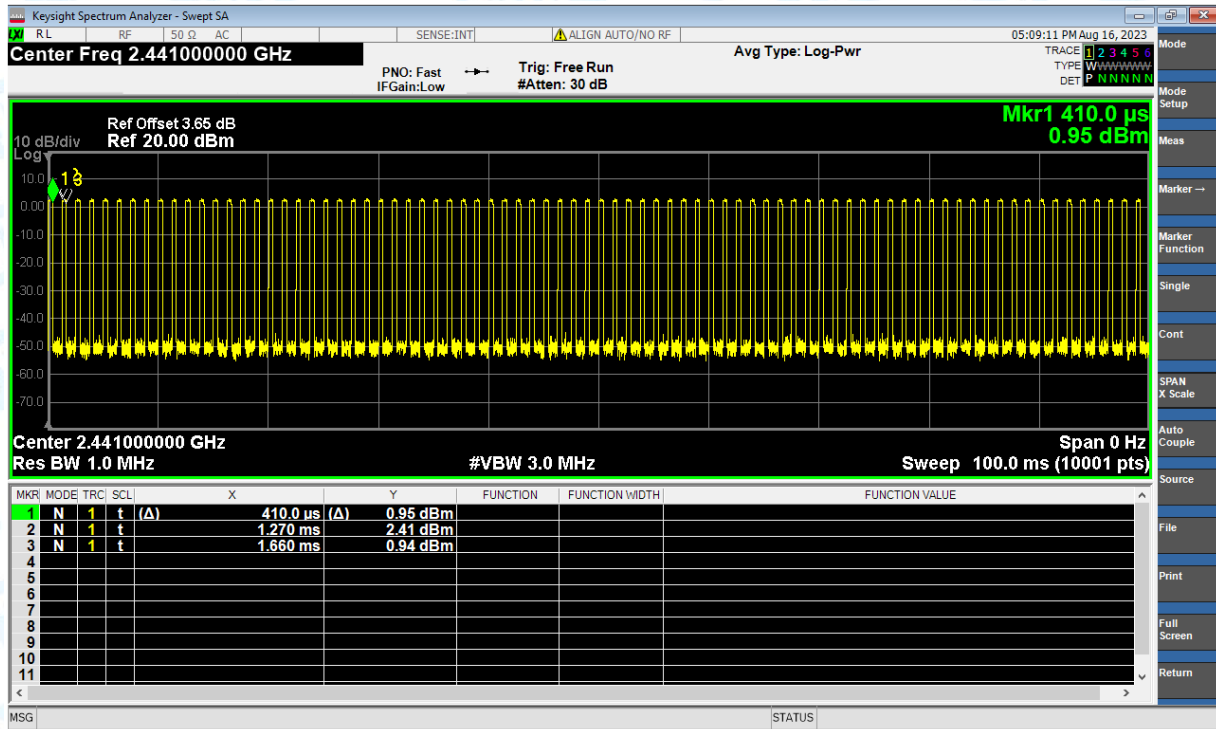
Duty Cycle NVNT 1-DH1 2480MHz Ant1



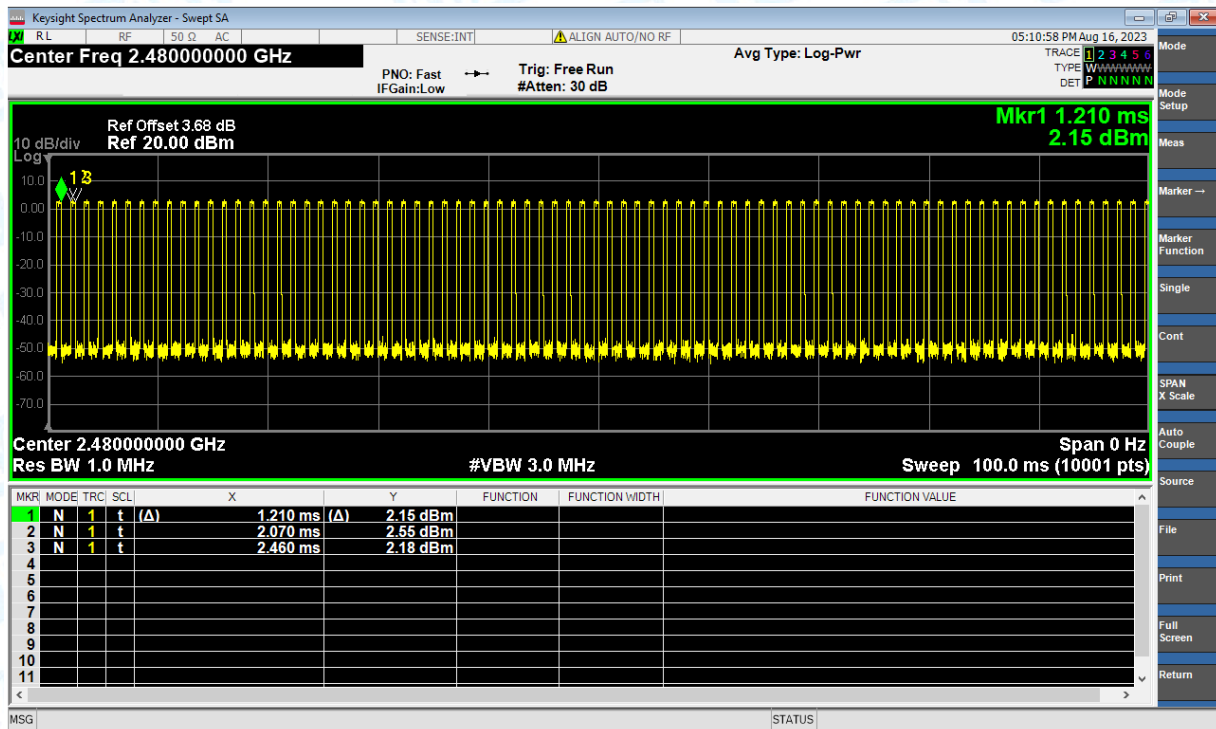
Duty Cycle NVNT 2-DH1 2402MHz Ant1



Duty Cycle NVNT 2-DH1 2441MHz Ant1



Duty Cycle NVNT 2-DH1 2480MHz Ant1

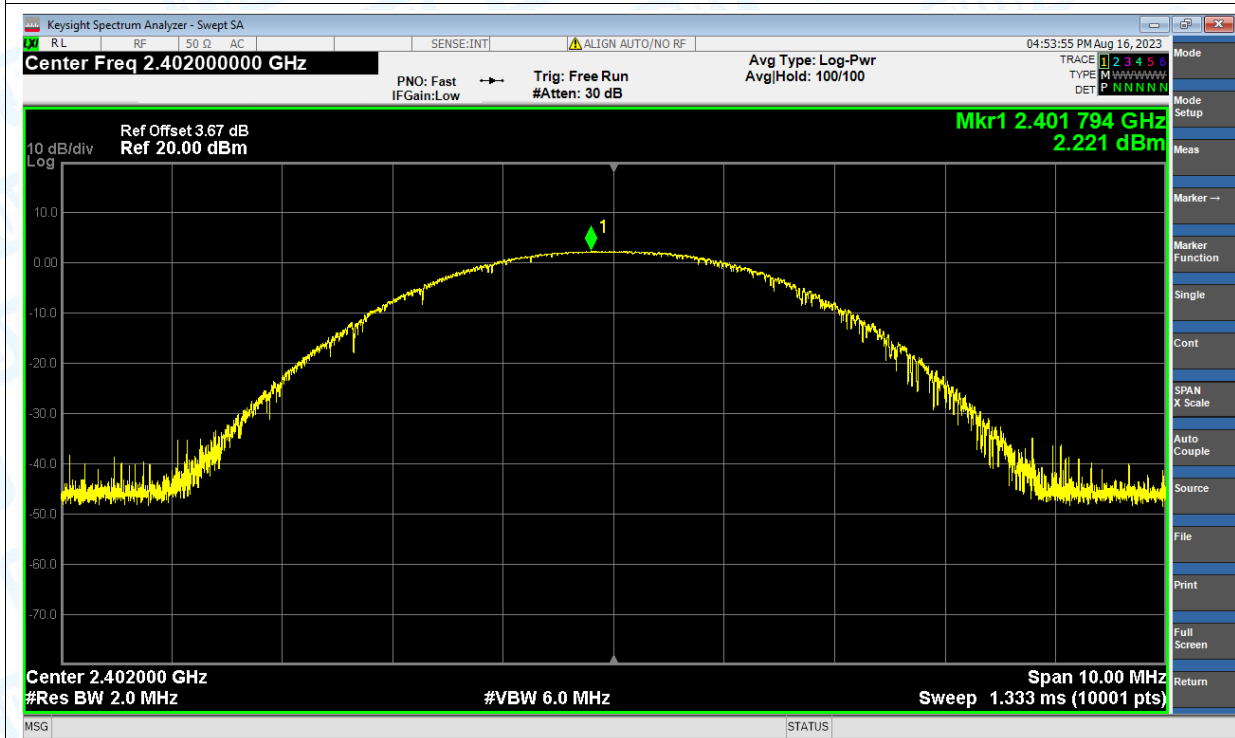


2. Maximum Conducted Output Power

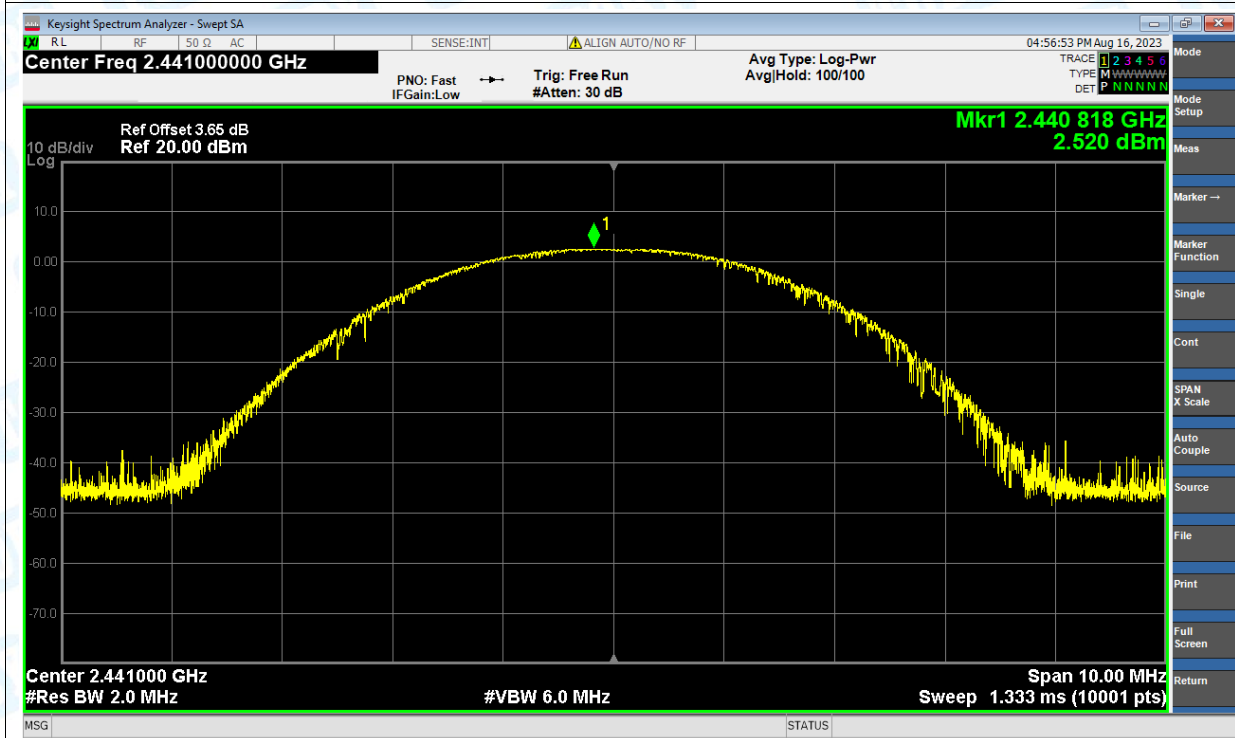
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	2.221	21	Pass
NVNT	1-DH1	2441	Ant1	2.52	21	Pass
NVNT	1-DH1	2480	Ant1	2.805	21	Pass
NVNT	2-DH1	2402	Ant1	3.212	21	Pass
NVNT	2-DH1	2441	Ant1	3.365	21	Pass
NVNT	2-DH1	2480	Ant1	3.545	21	Pass

Test Graphs

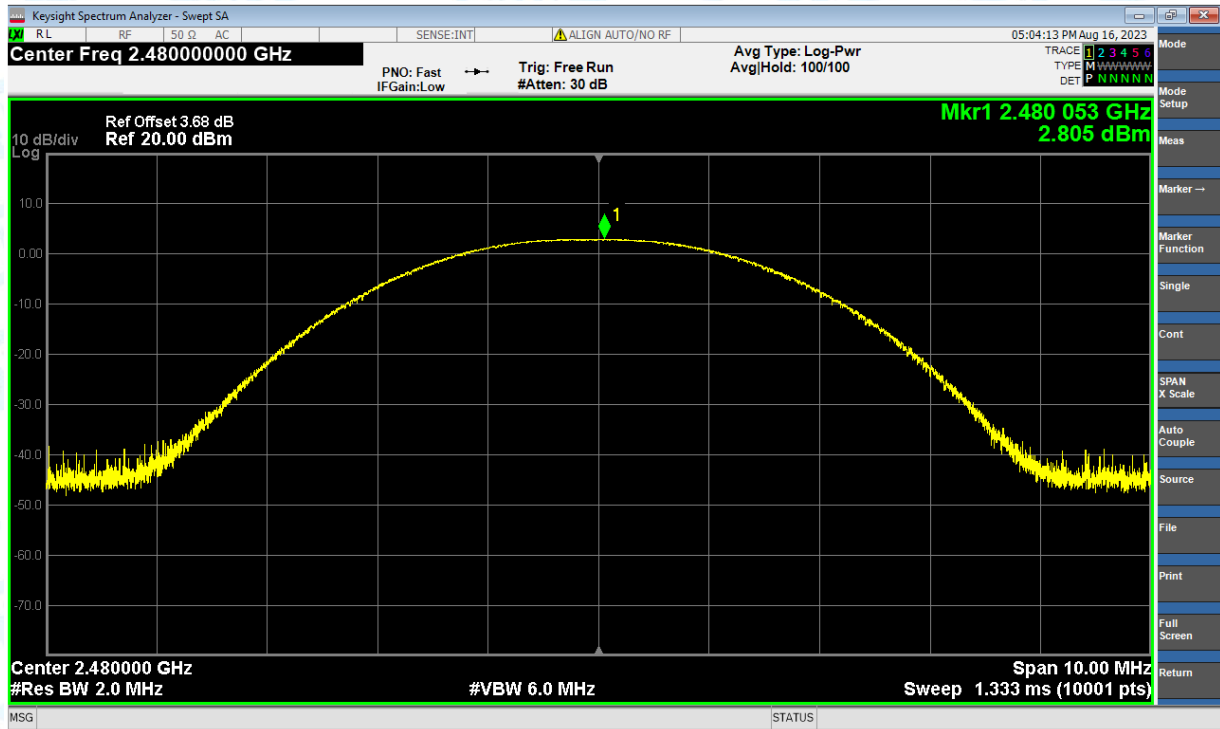
Power NVNT 1-DH1 2402MHz Ant1



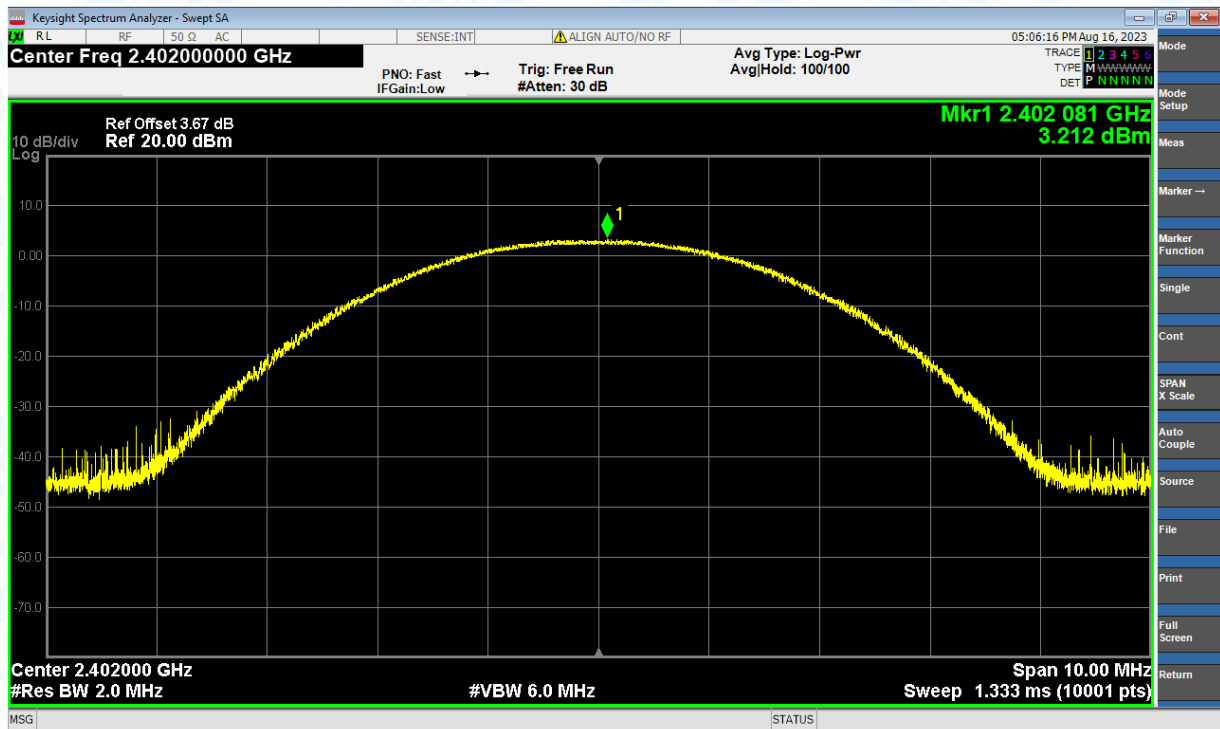
Power NVNT 1-DH1 2441MHz Ant1



Power NVNT 1-DH1 2480MHz Ant1



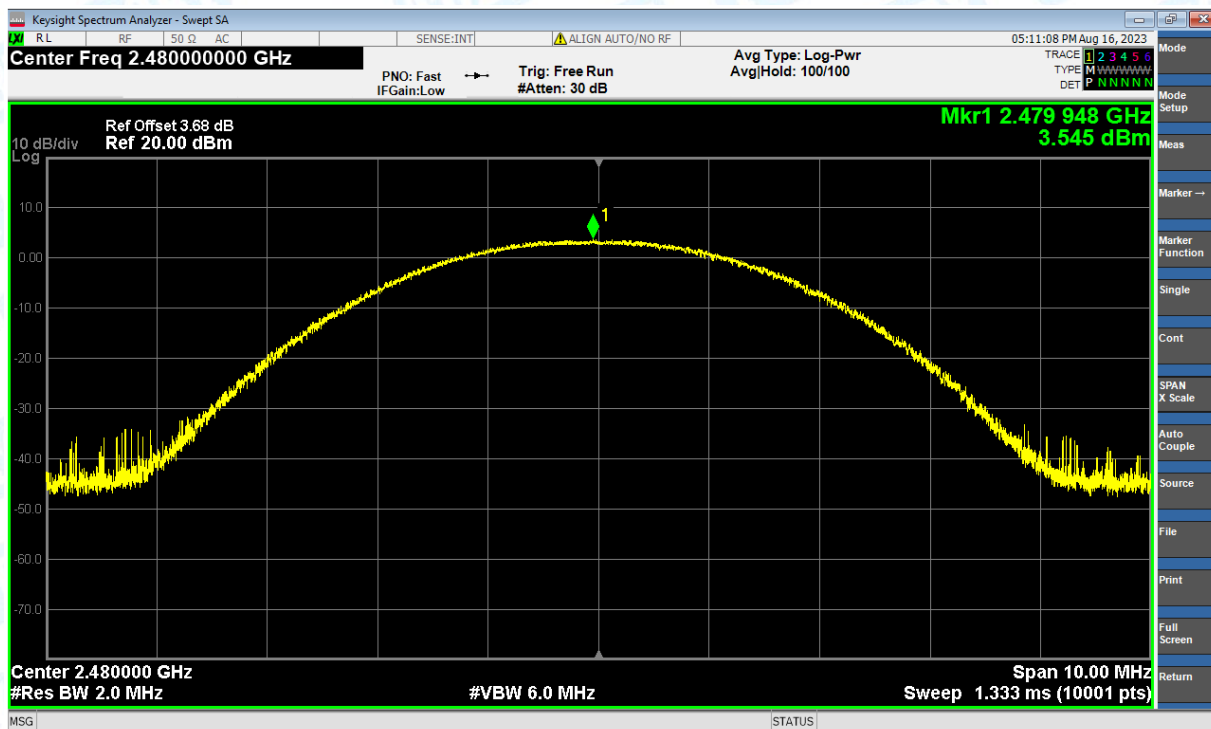
Power NVNT 2-DH1 2402MHz Ant1



Power NVNT 2-DH1 2441MHz Ant1



Power NVNT 2-DH1 2480MHz Ant1

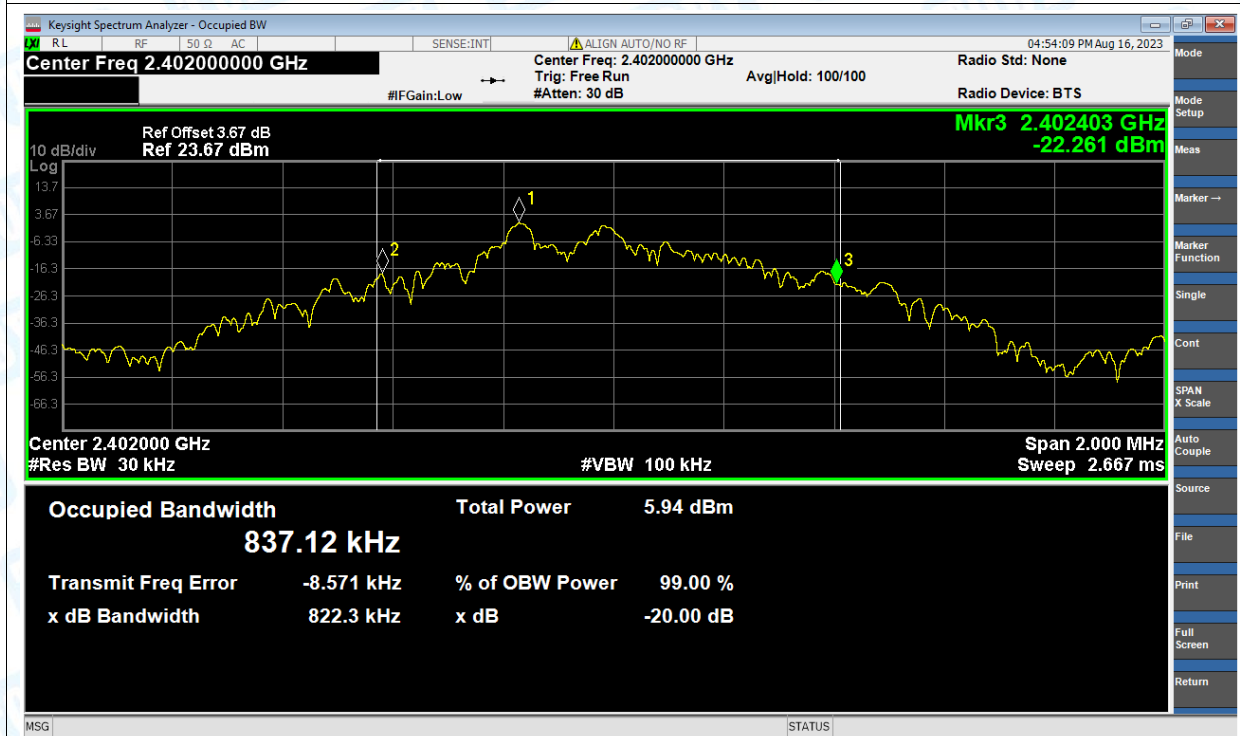


3. -20dB Bandwidth

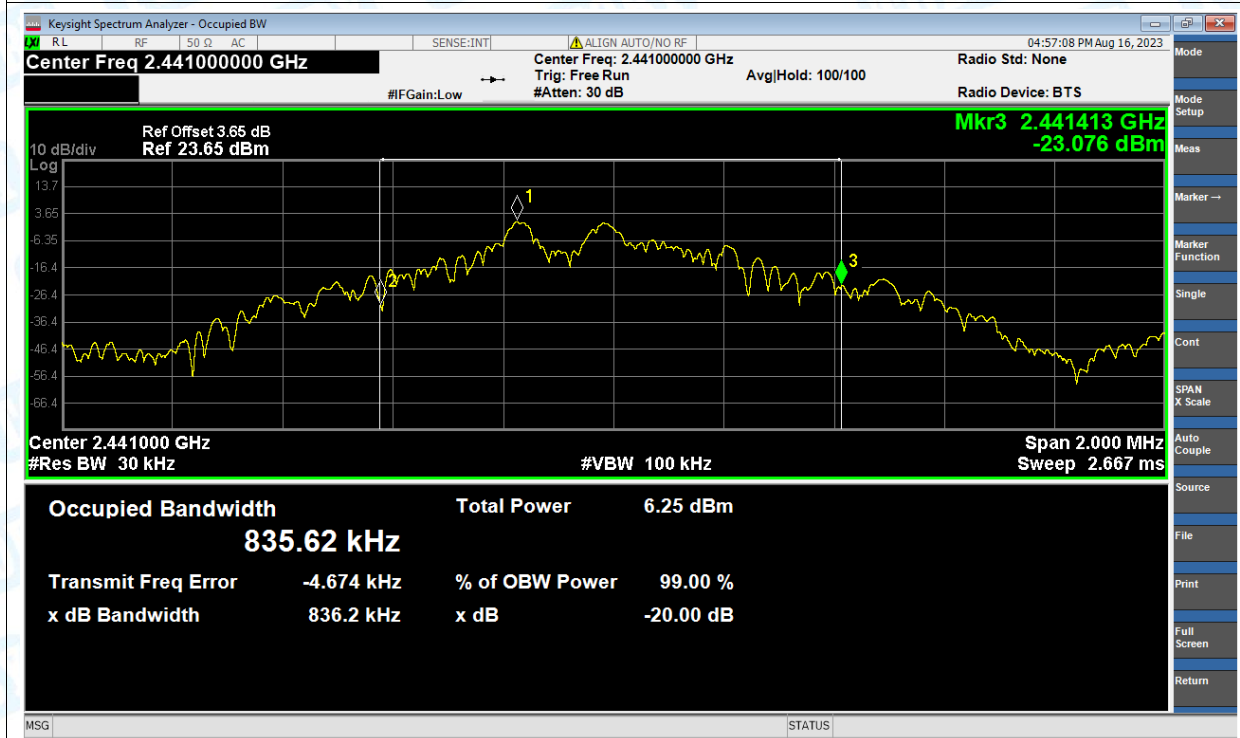
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.82	0	Pass
NVNT	1-DH1	2441	Ant1	0.84	0	Pass
NVNT	1-DH1	2480	Ant1	0.86	0	Pass
NVNT	2-DH1	2402	Ant1	1.24	0	Pass
NVNT	2-DH1	2441	Ant1	1.24	0	Pass
NVNT	2-DH1	2480	Ant1	1.23	0	Pass

Test Graphs

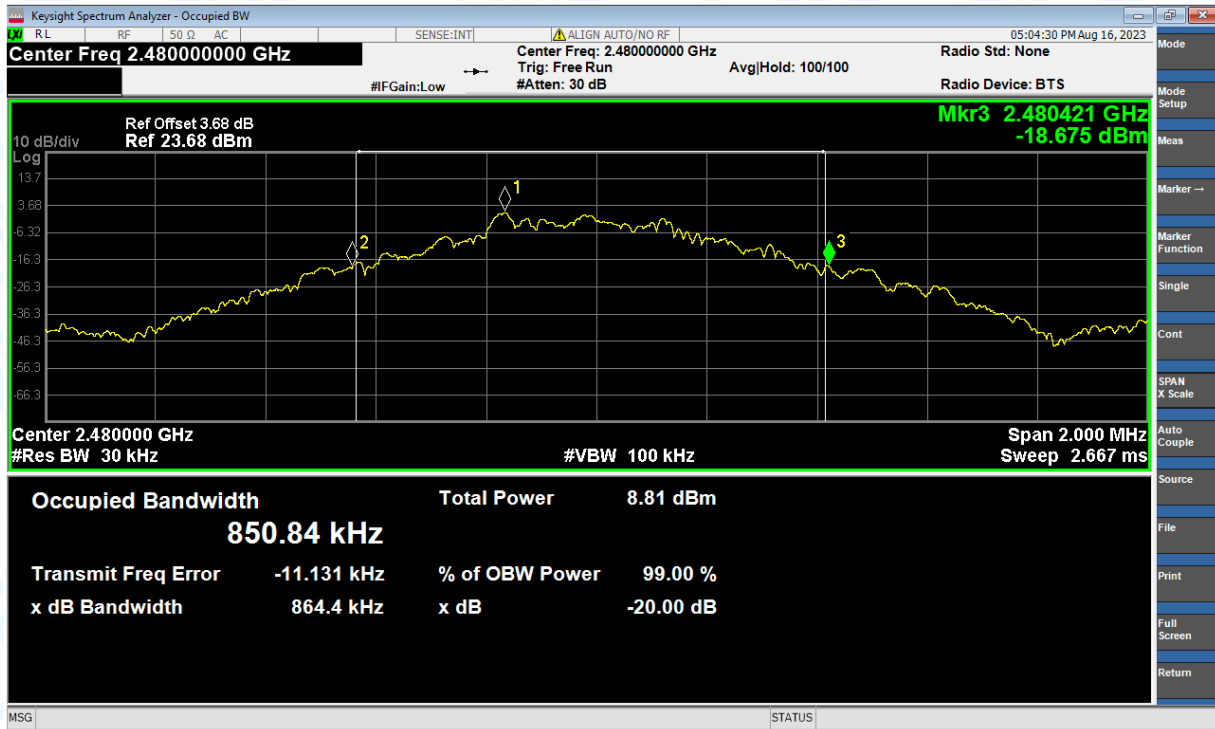
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



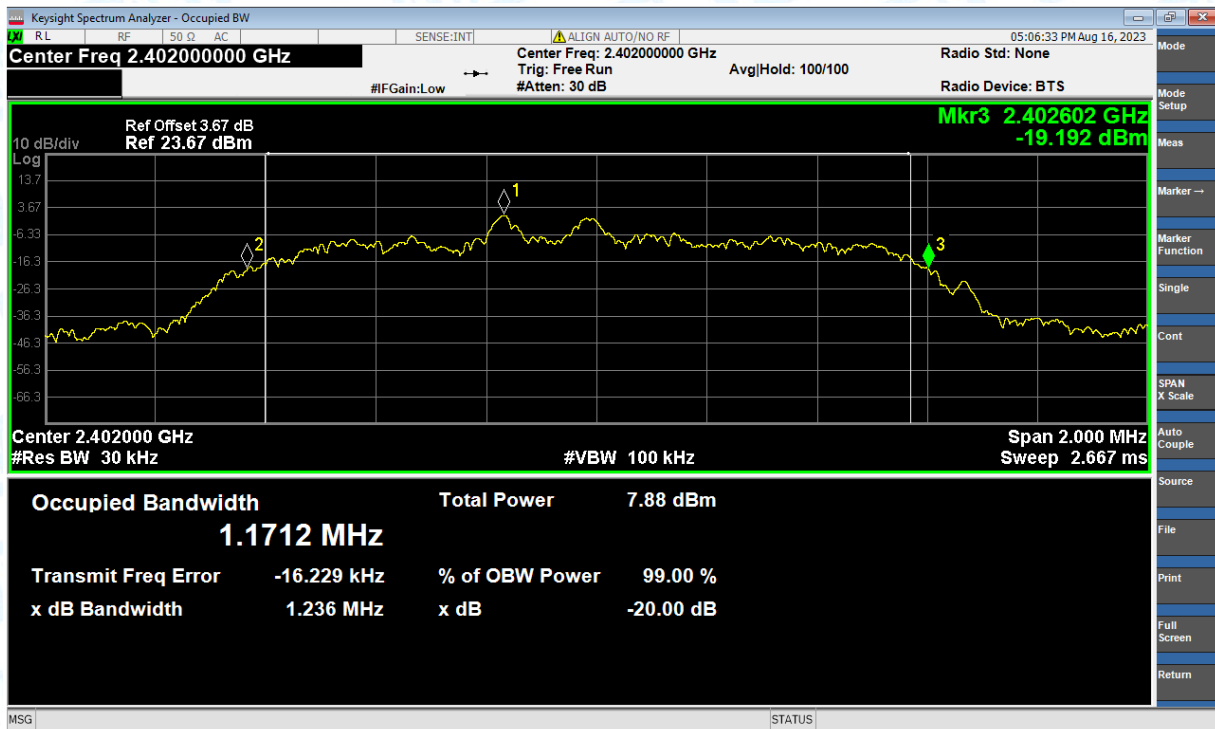
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



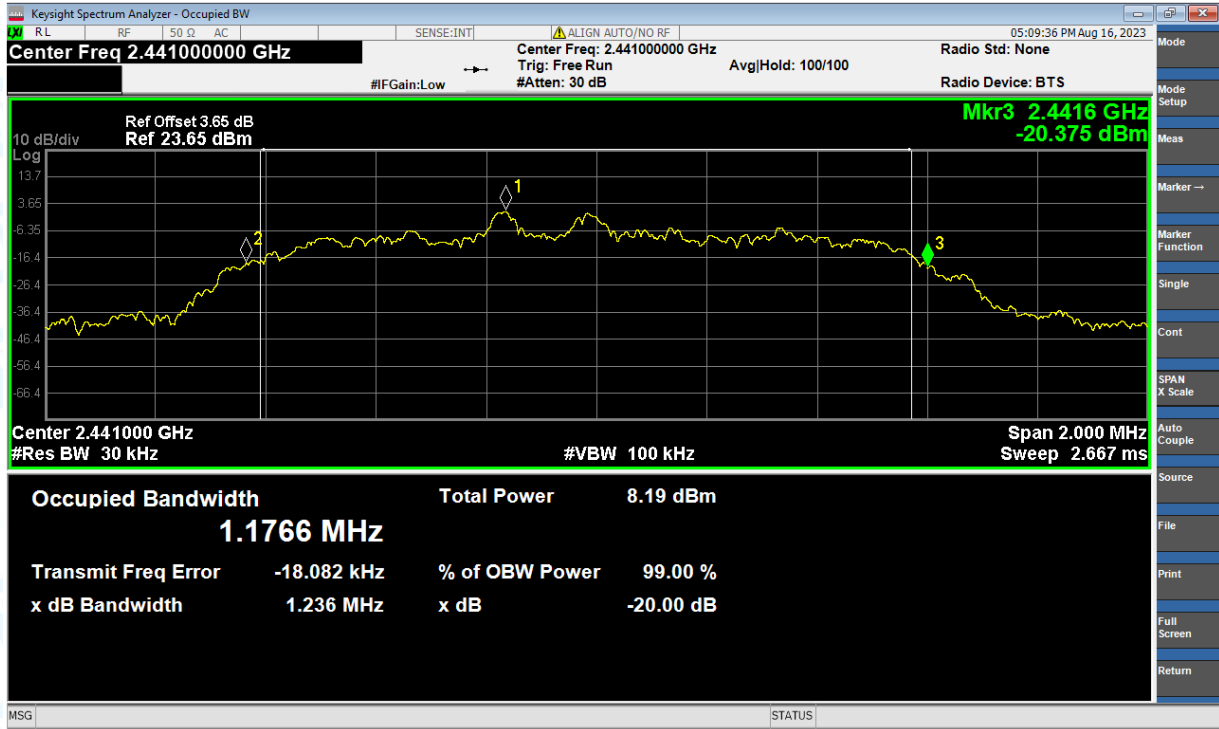
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



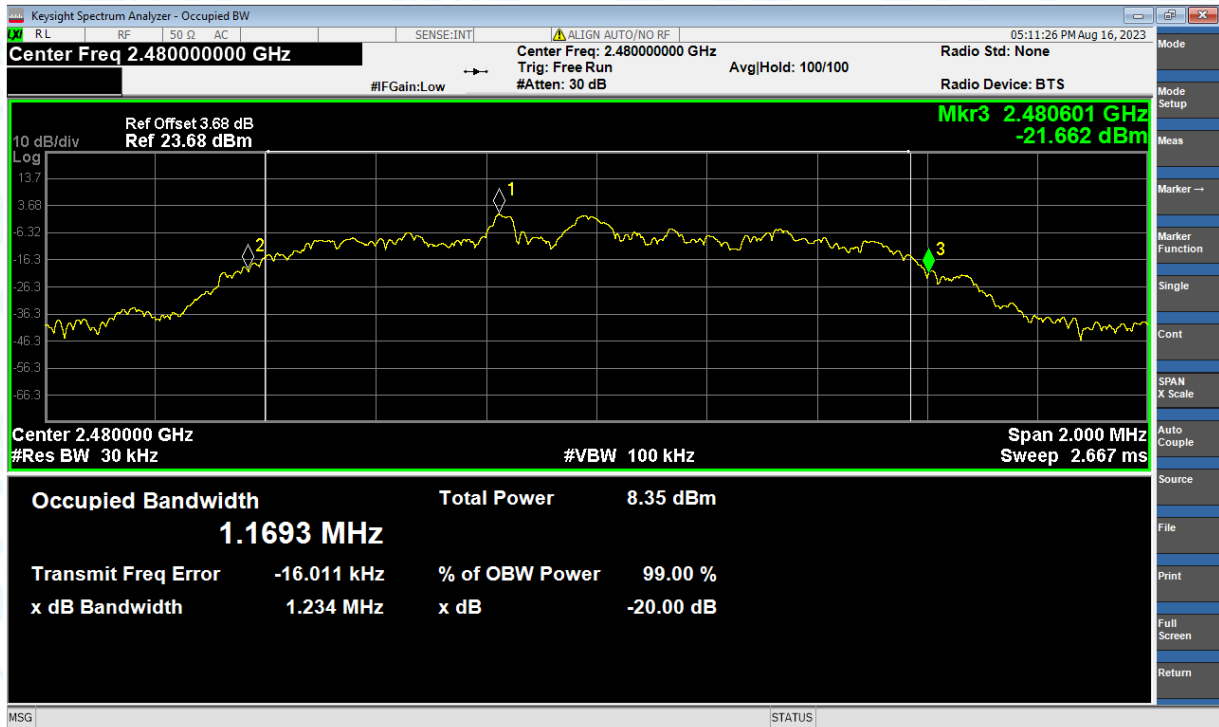
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

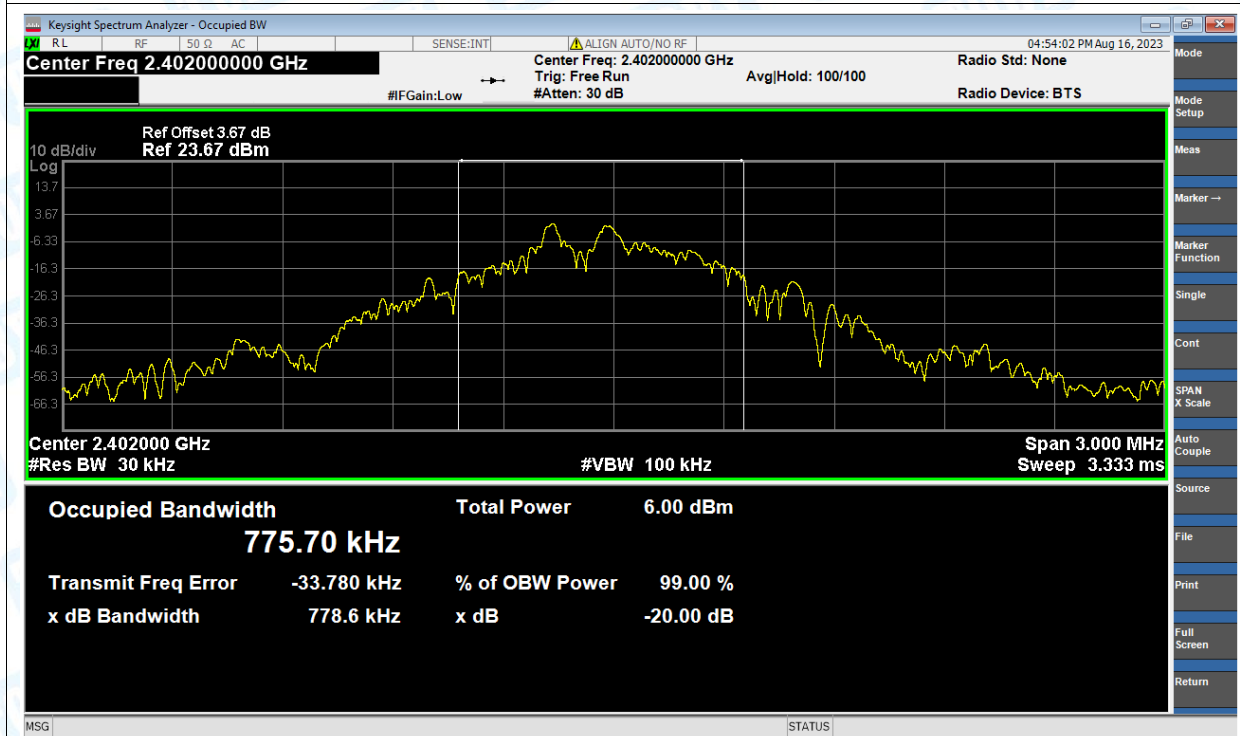


4. Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.776
NVNT	1-DH1	2441	Ant1	0.886
NVNT	1-DH1	2480	Ant1	0.867
NVNT	2-DH1	2402	Ant1	1.157
NVNT	2-DH1	2441	Ant1	1.162
NVNT	2-DH1	2480	Ant1	1.172

Test Graphs

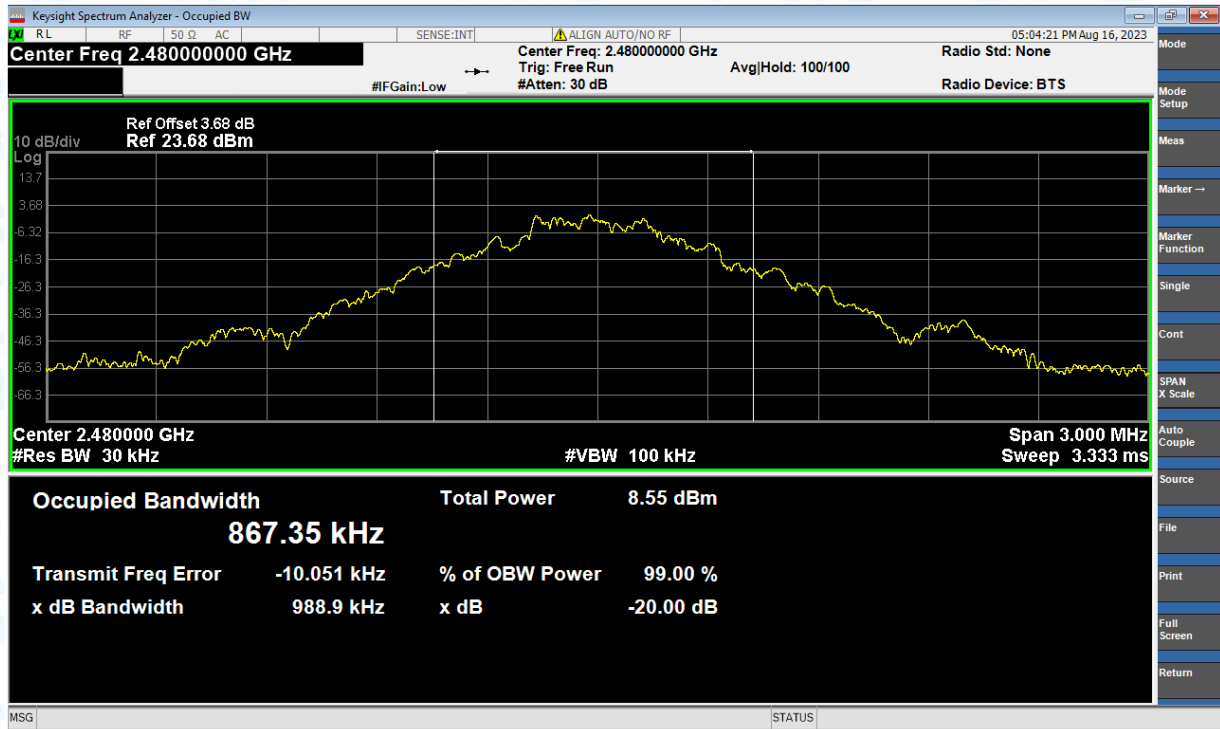
OBW NVNT 1-DH1 2402MHz Ant1



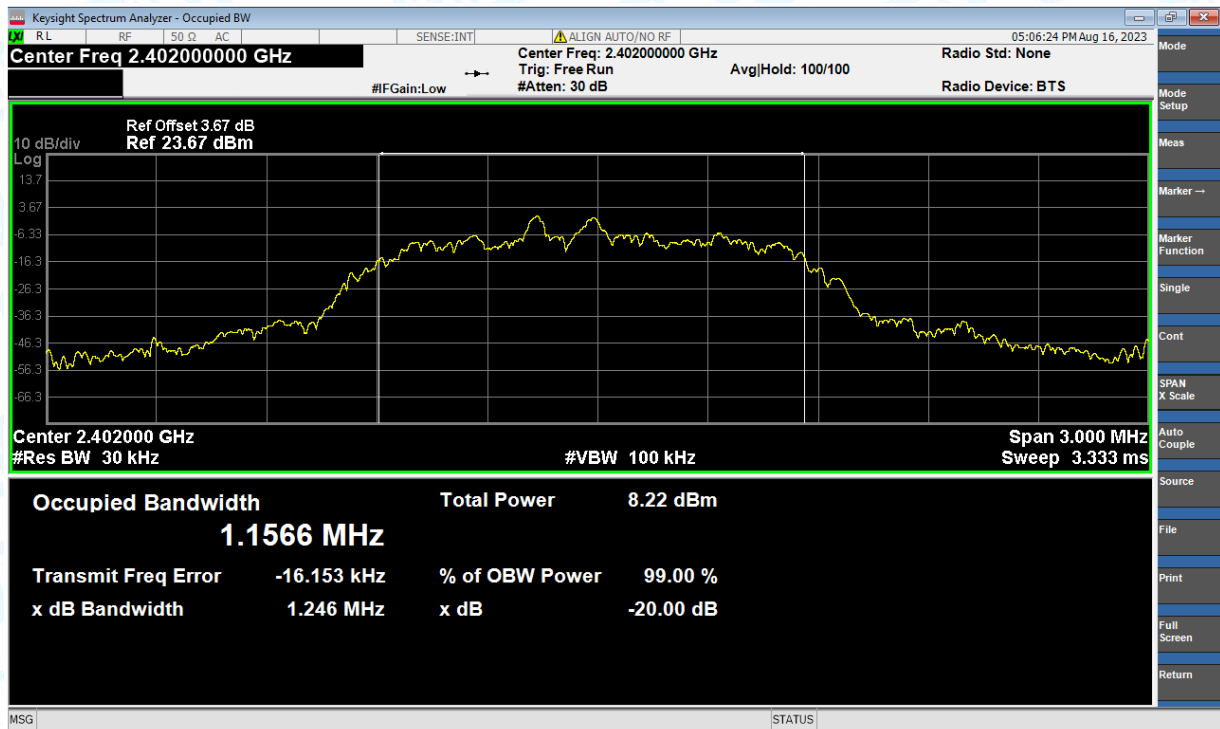
OBW NVNT 1-DH1 2441MHz Ant1



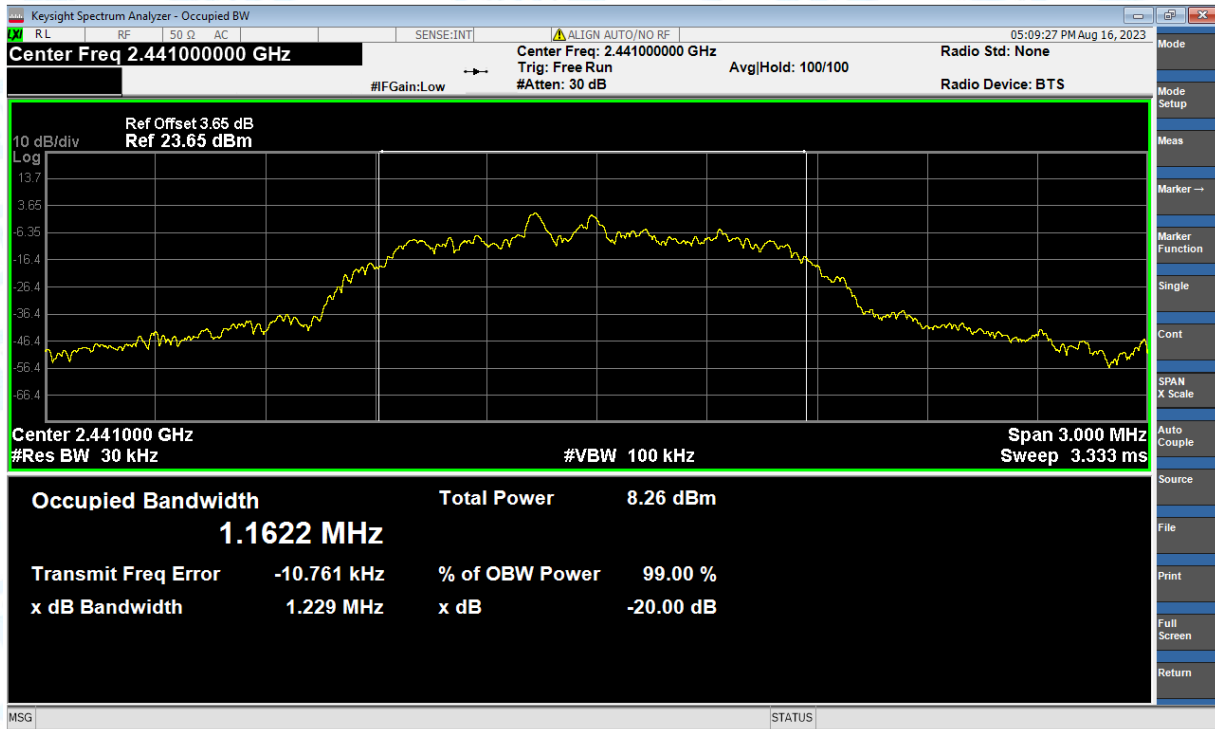
OBW NVNT 1-DH1 2480MHz Ant1



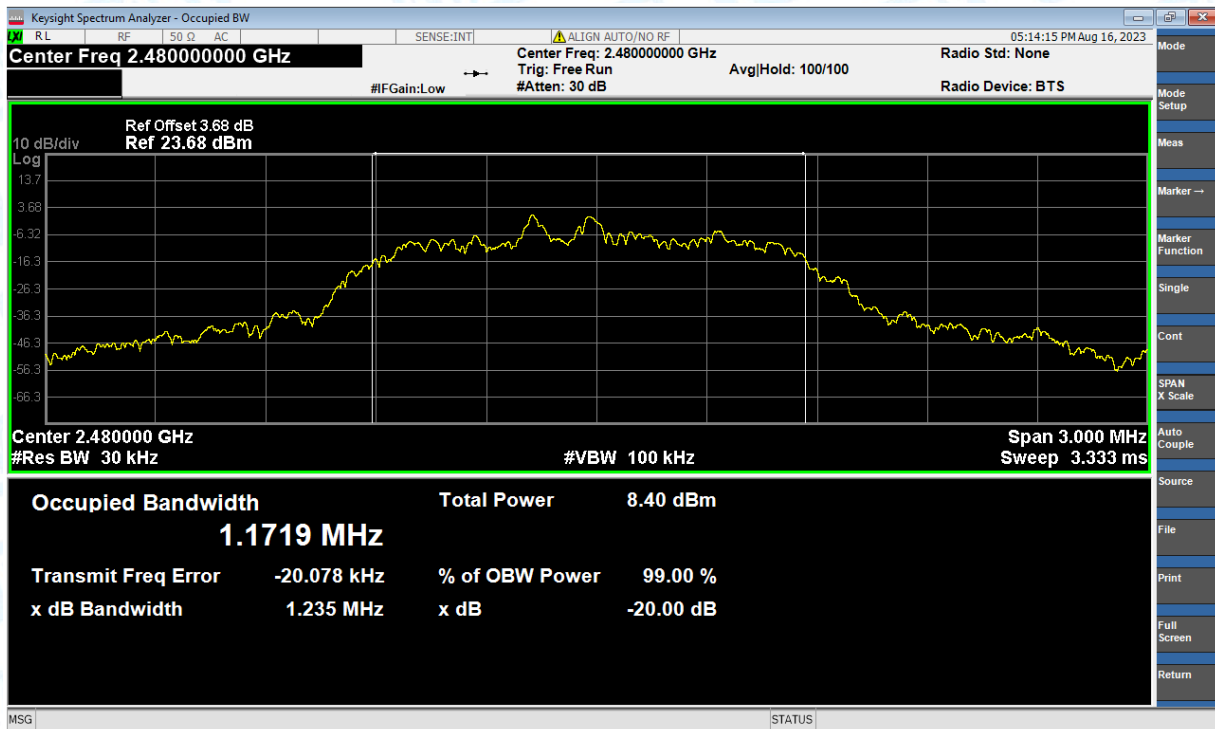
OBW NVNT 2-DH1 2402MHz Ant1



OBW NVNT 2-DH1 2441MHz Ant1



OBW NVNT 2-DH1 2480MHz Ant1

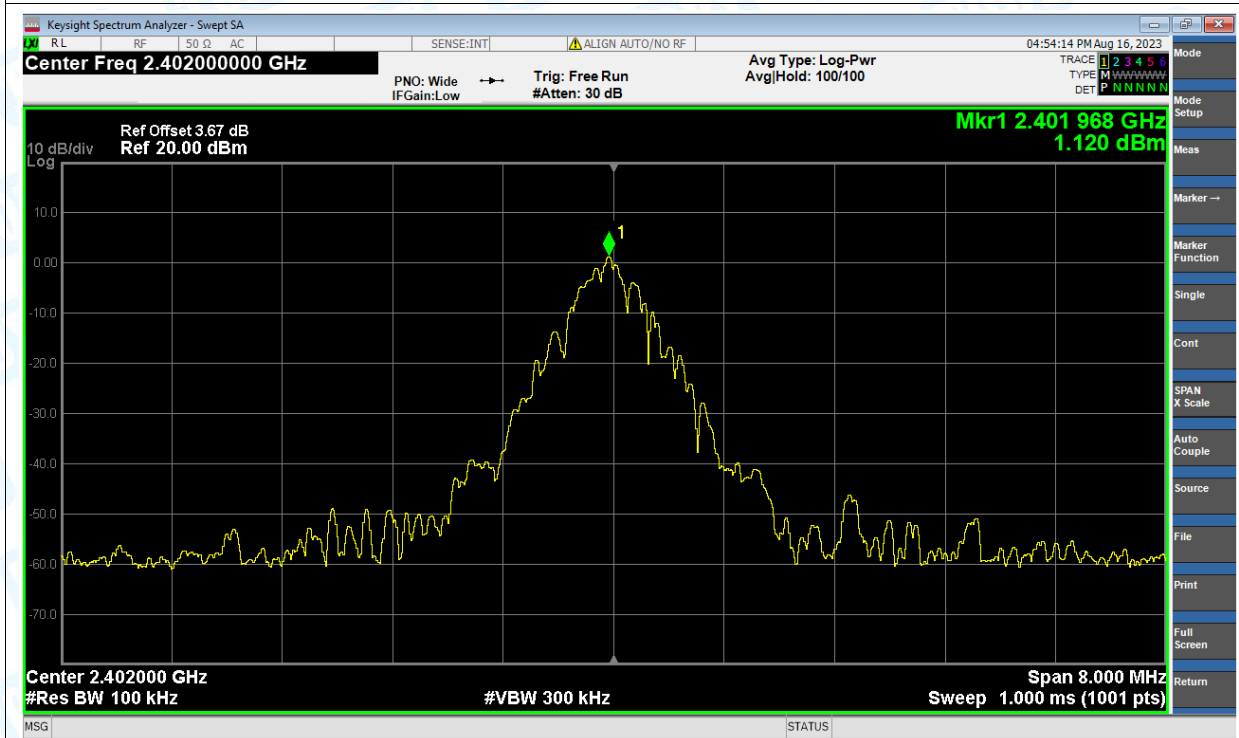


5. Band Edge

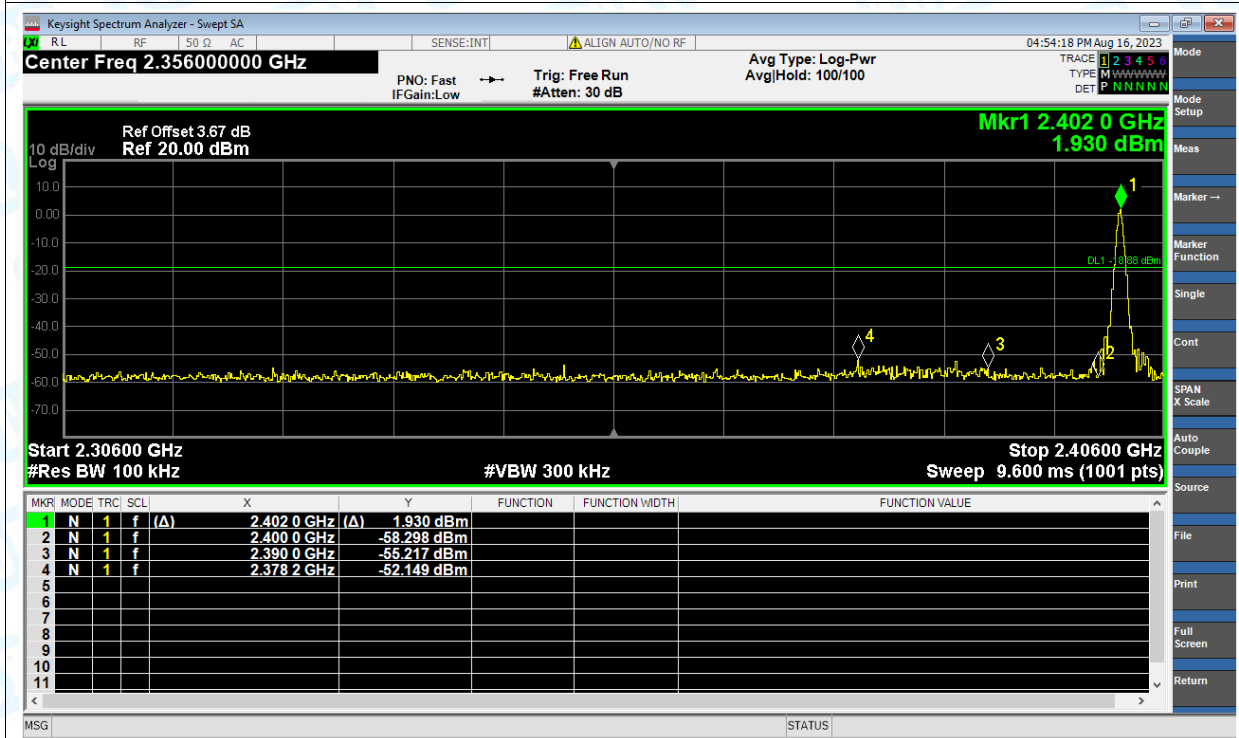
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-53.27	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-53.53	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-53.74	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-54.38	-20	Pass

Test Graphs

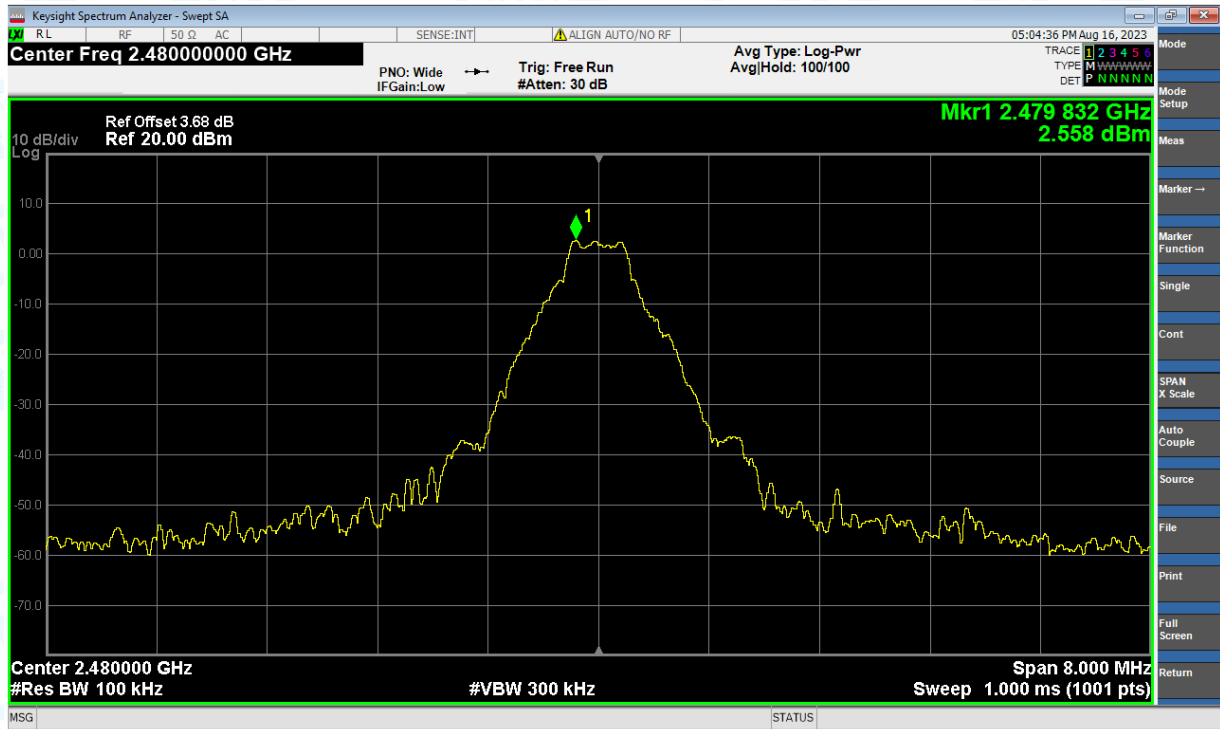
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



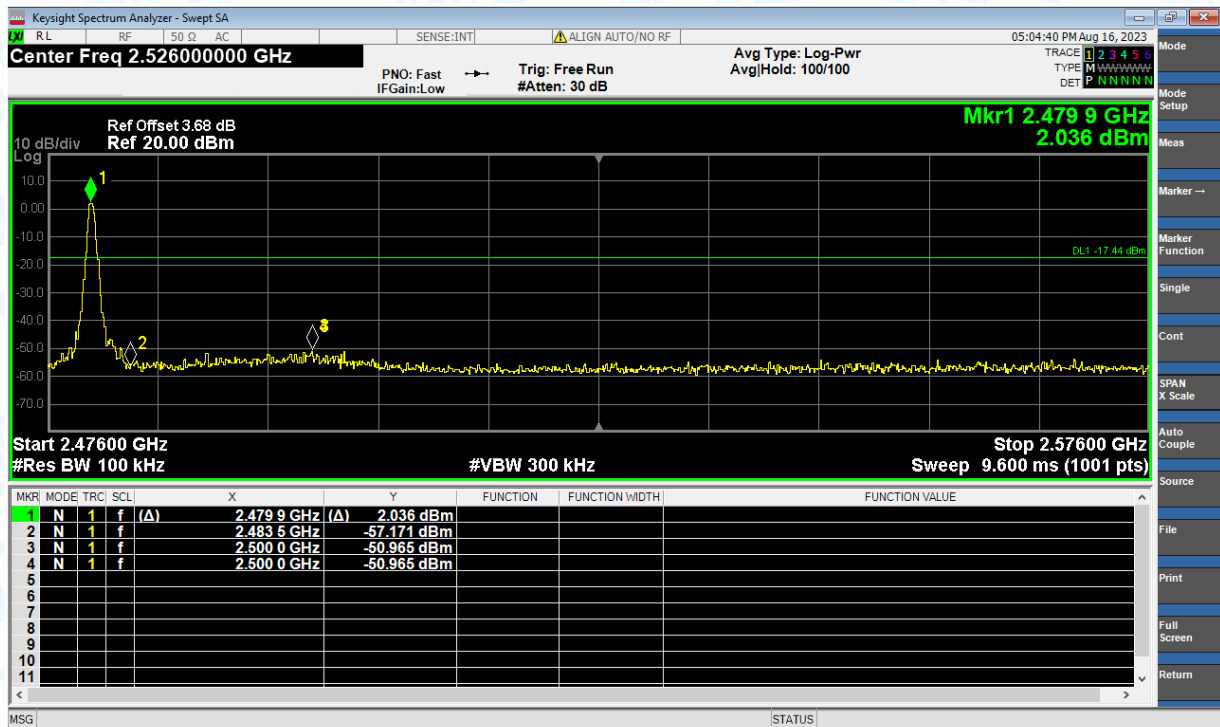
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



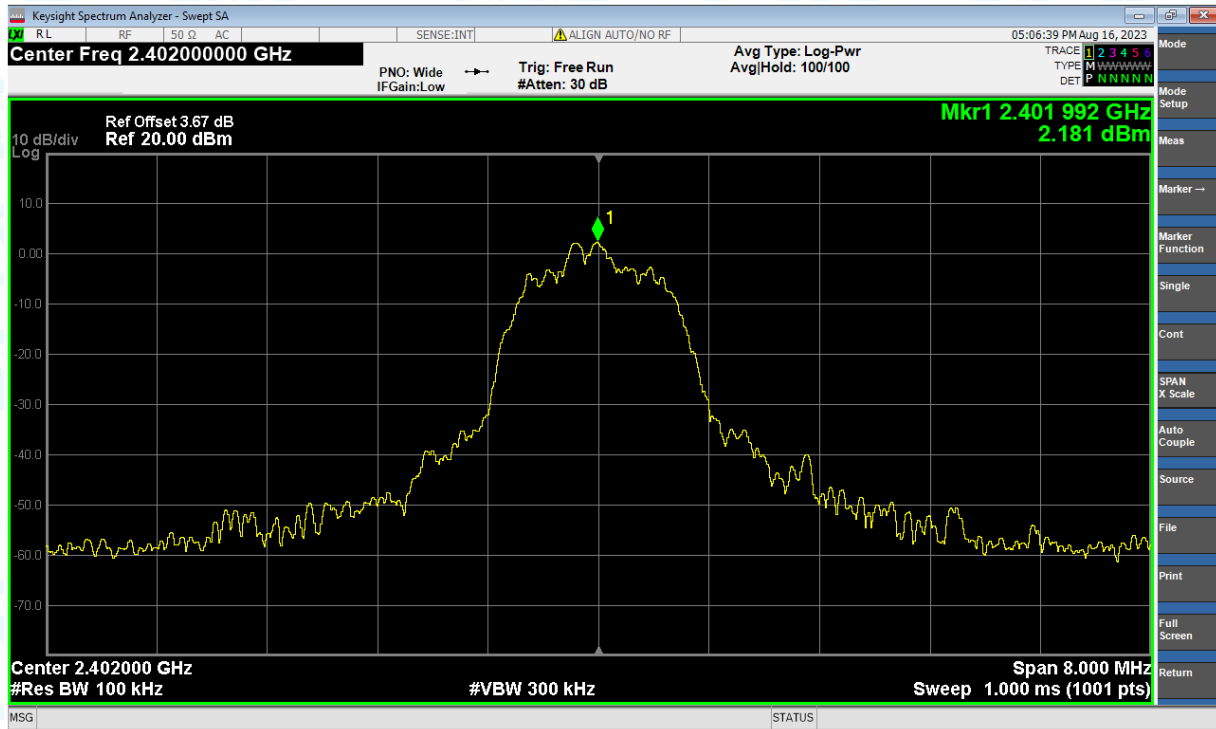
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



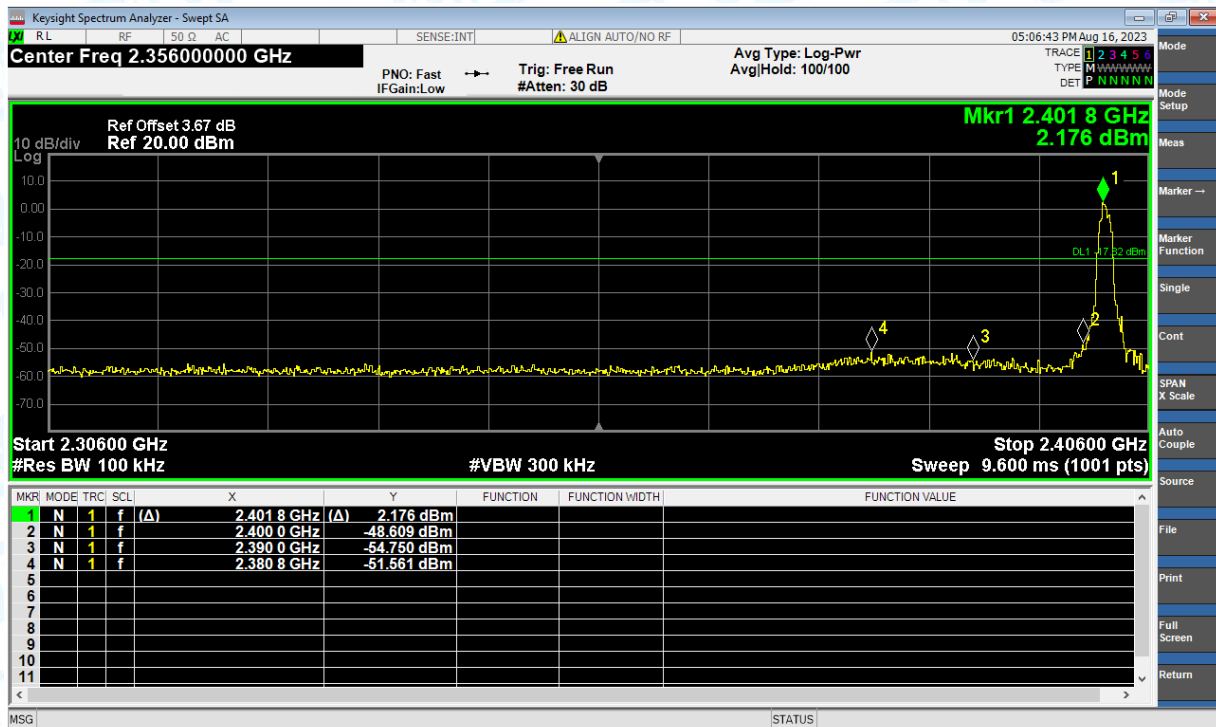
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



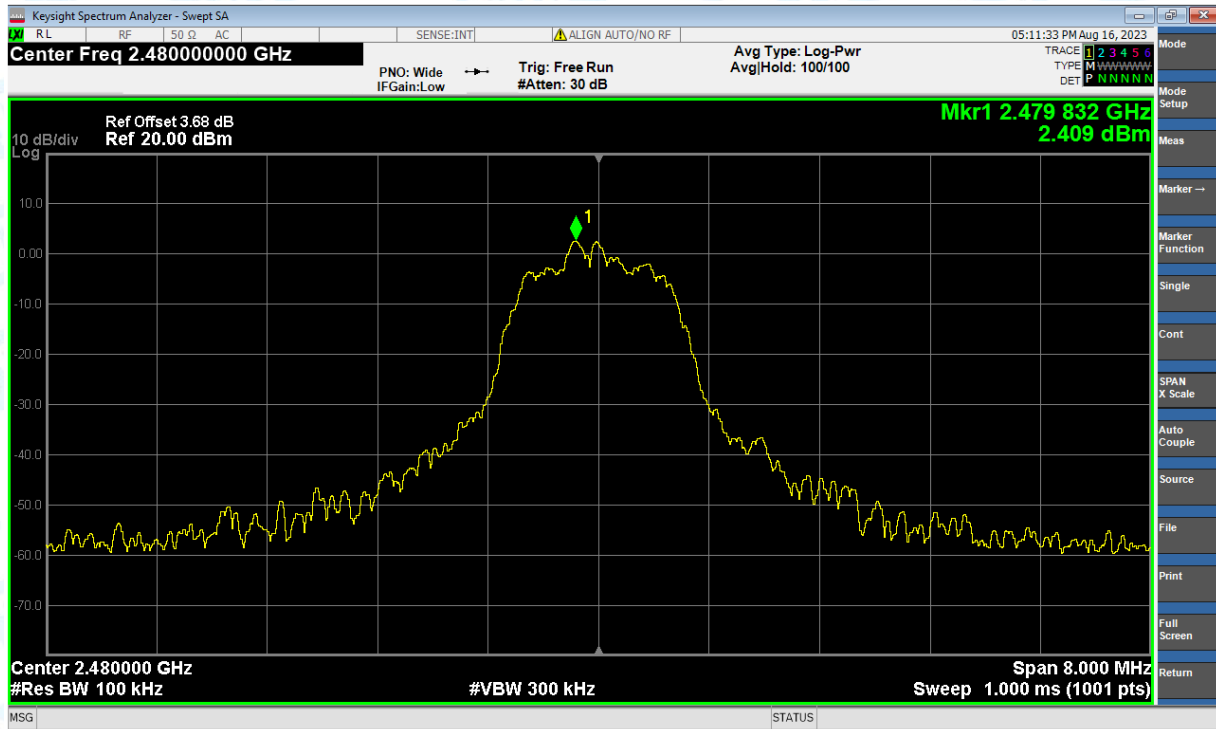
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



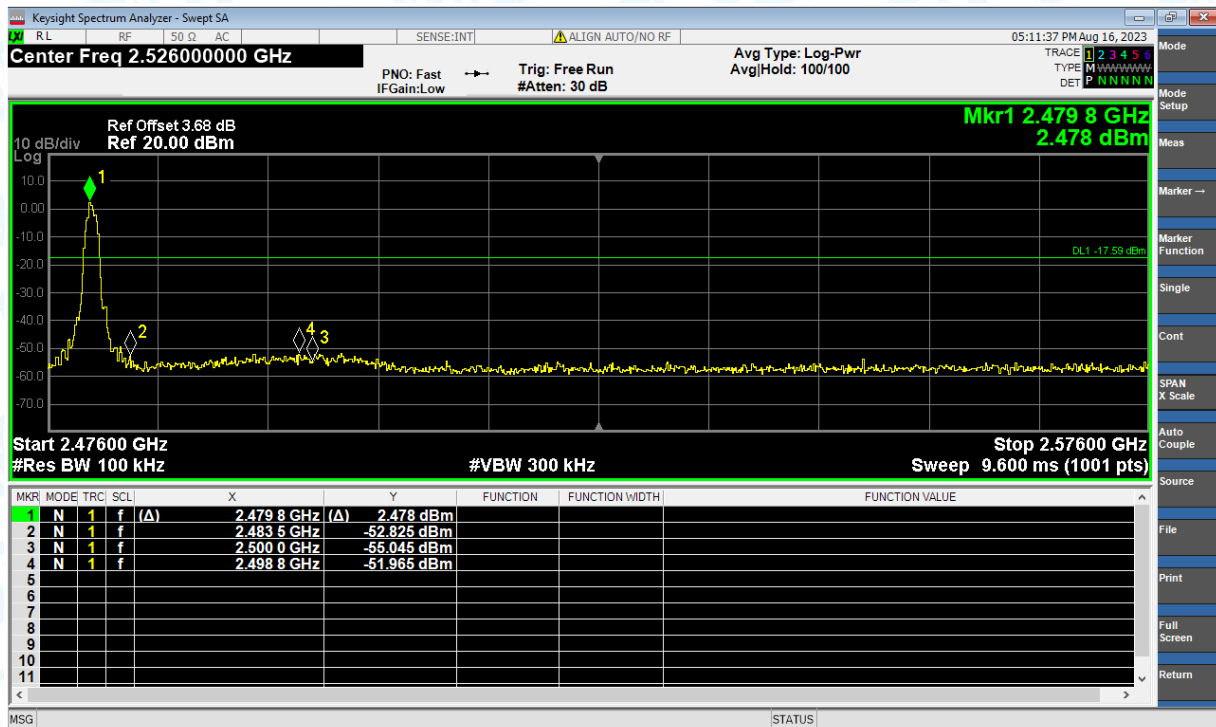
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



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



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

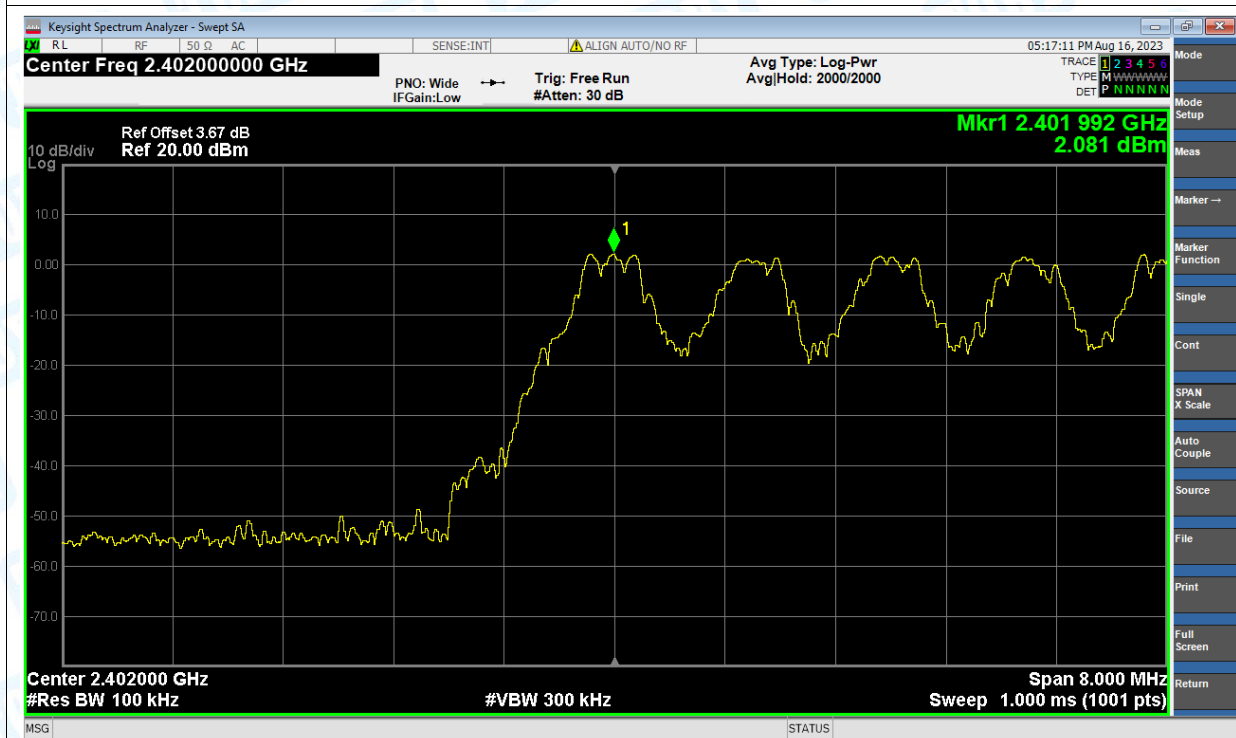


6. Band Edge(Hopping)

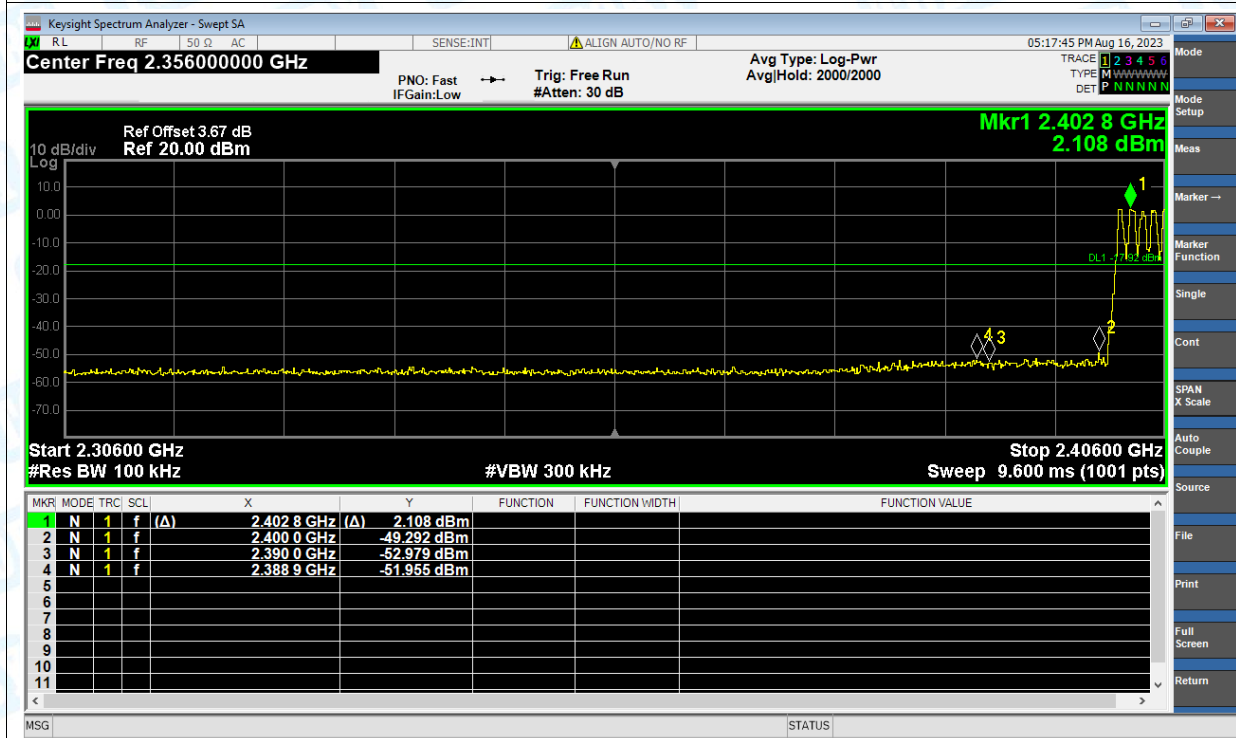
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-54.03	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-52.96	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-54.08	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-52.16	-20	Pass

Test Graphs

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



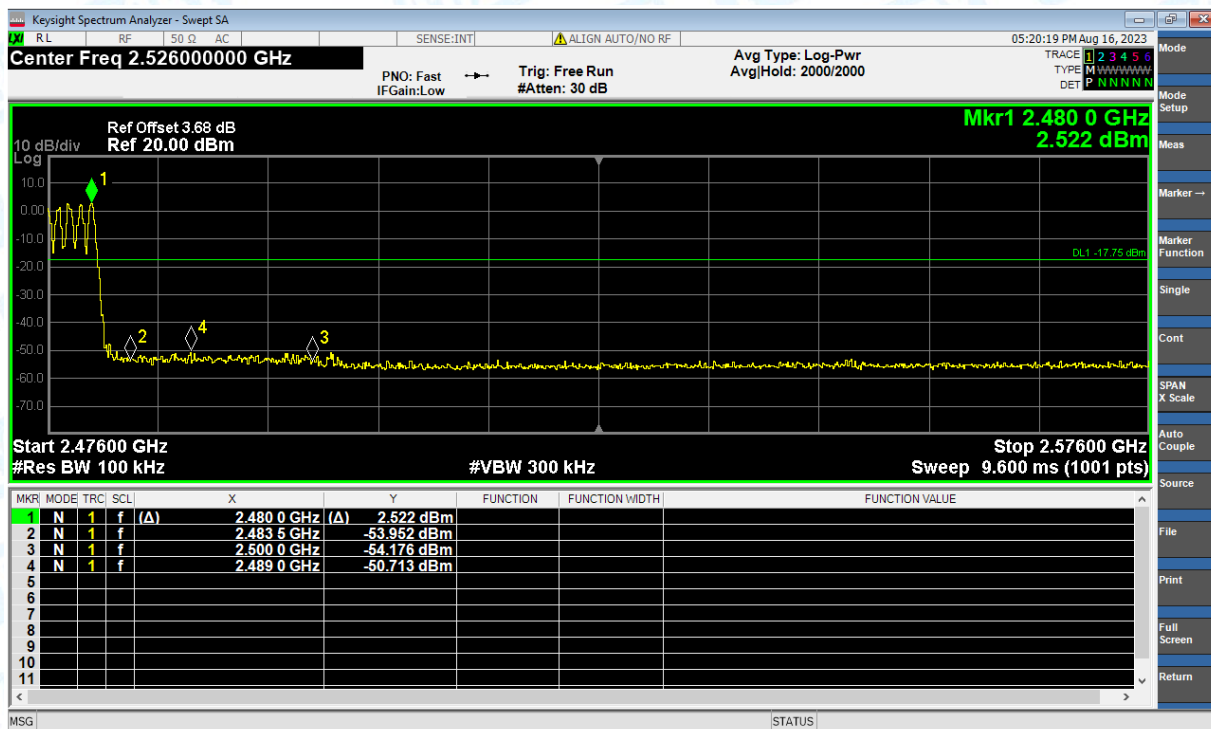
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission



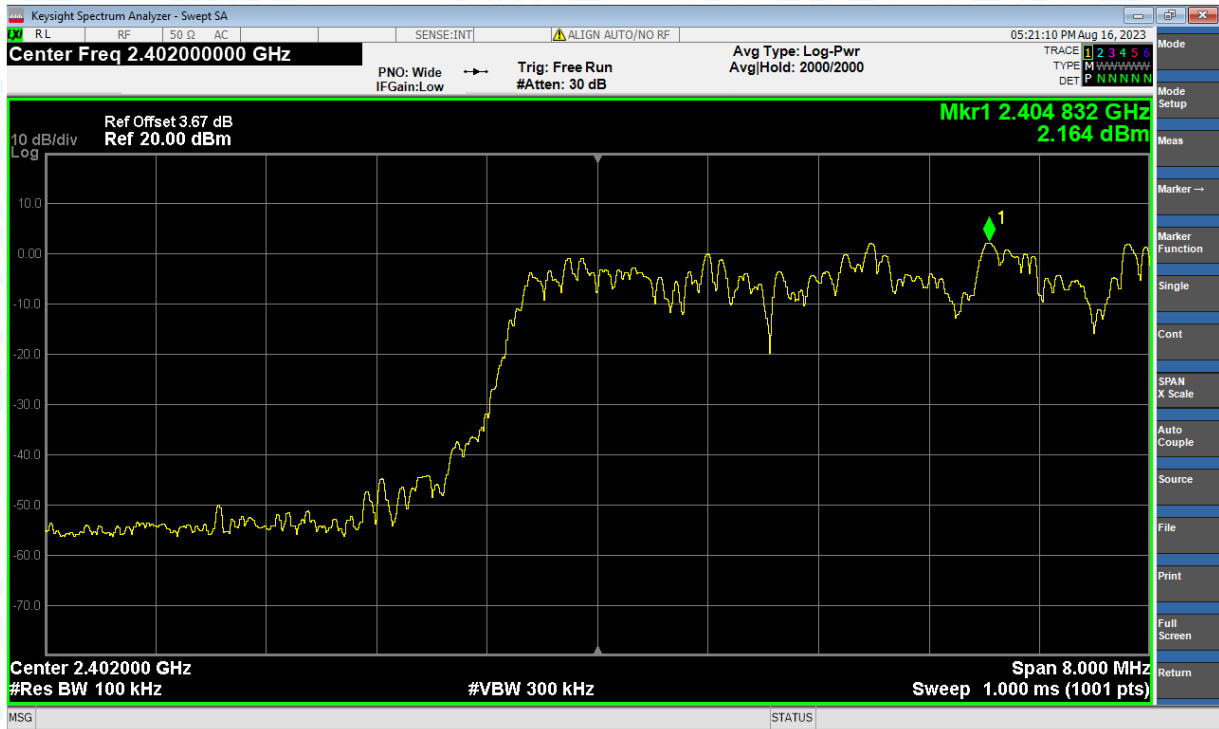
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Ref



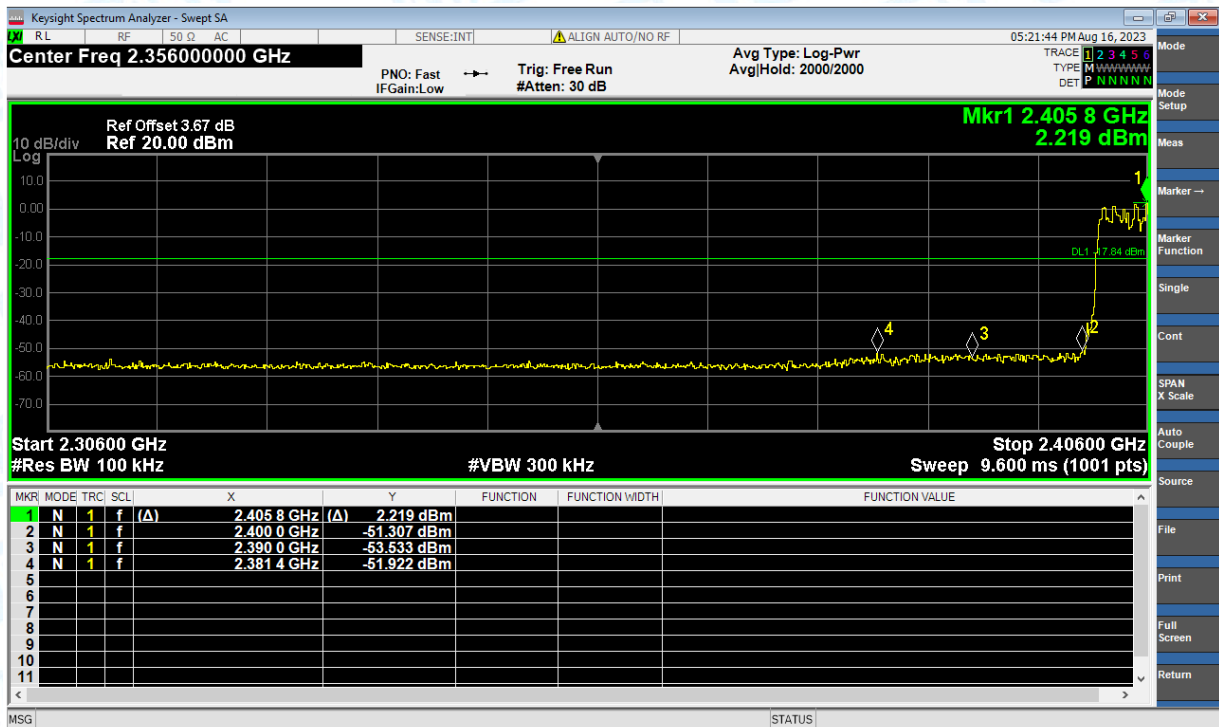
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission



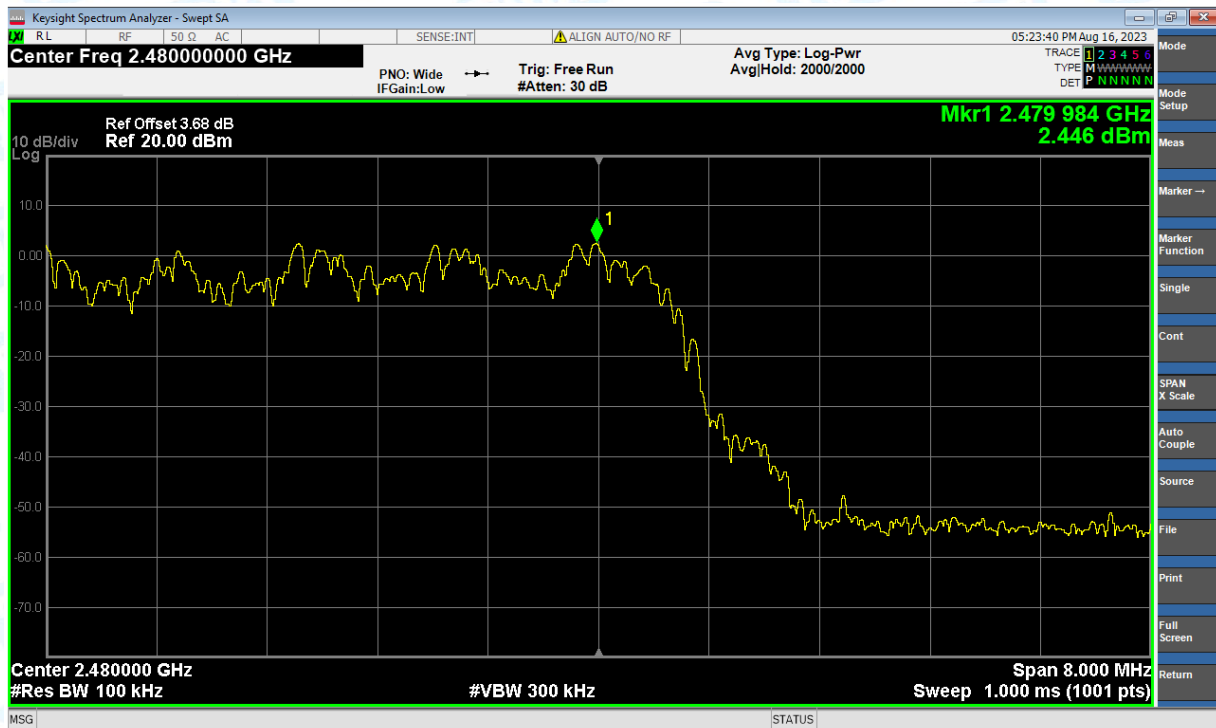
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Ref



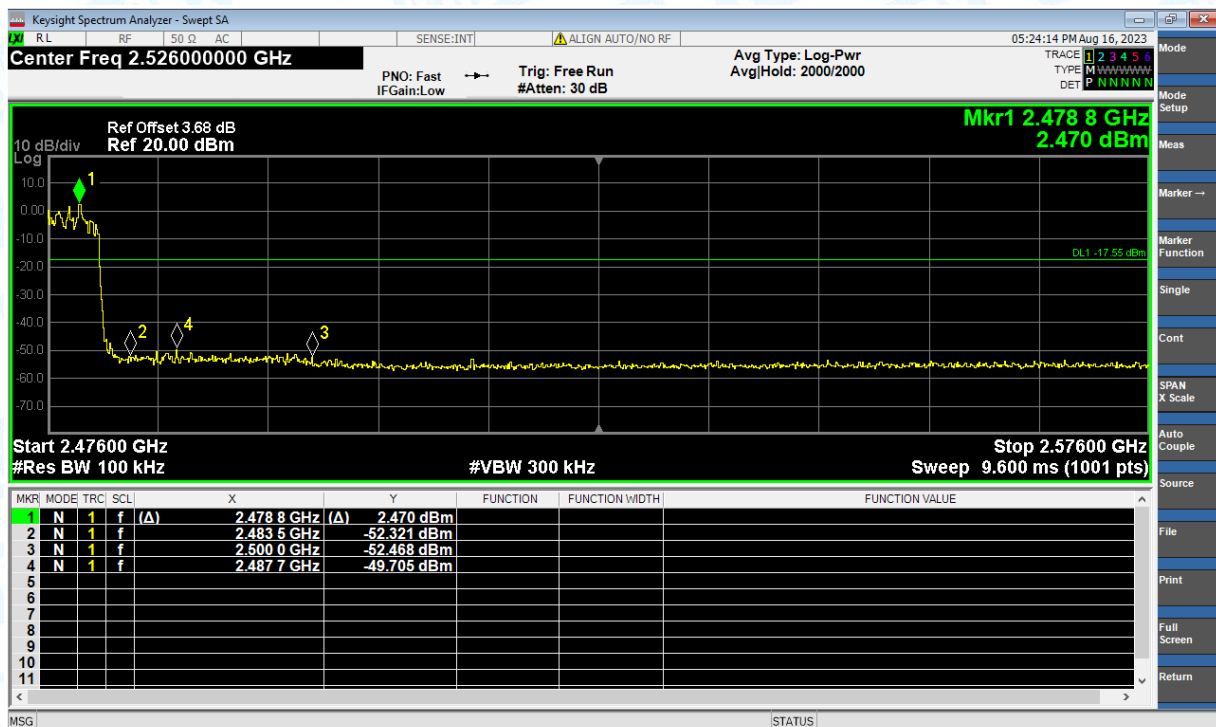
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission



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



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

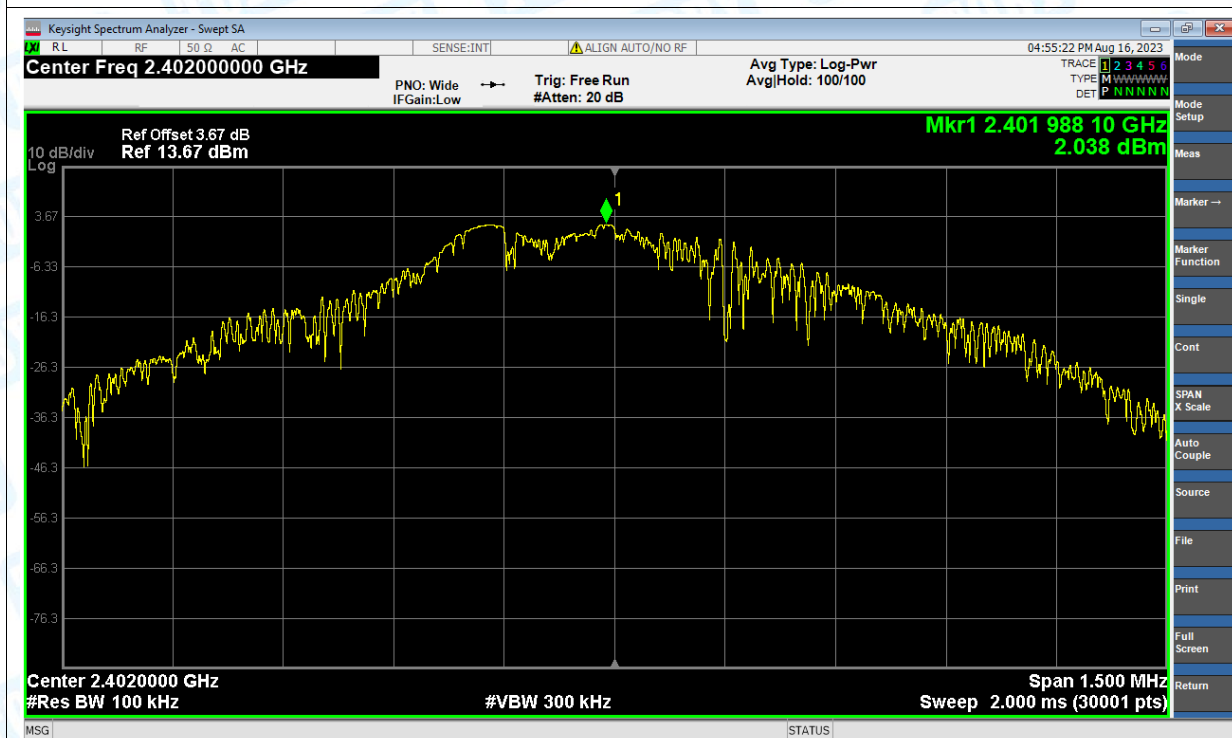


7. Conducted RF Spurious Emission

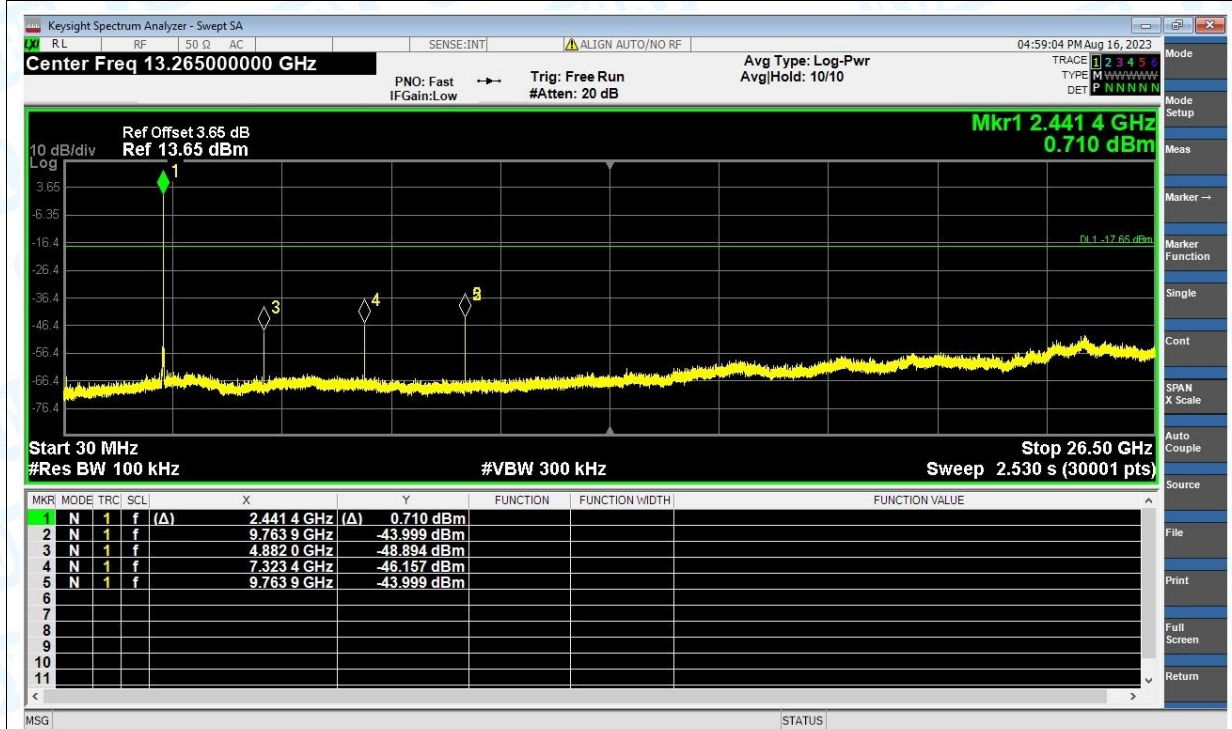
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-44.95	-20	Pass
NVNT	1-DH1	2441	Ant1	-46.35	-20	Fail
NVNT	1-DH1	2480	Ant1	-46.89	-20	Pass
NVNT	2-DH1	2402	Ant1	-45.66	-20	Pass
NVNT	2-DH1	2441	Ant1	-46.73	-20	Pass
NVNT	2-DH1	2480	Ant1	-45.56	-20	Pass

Test Graphs

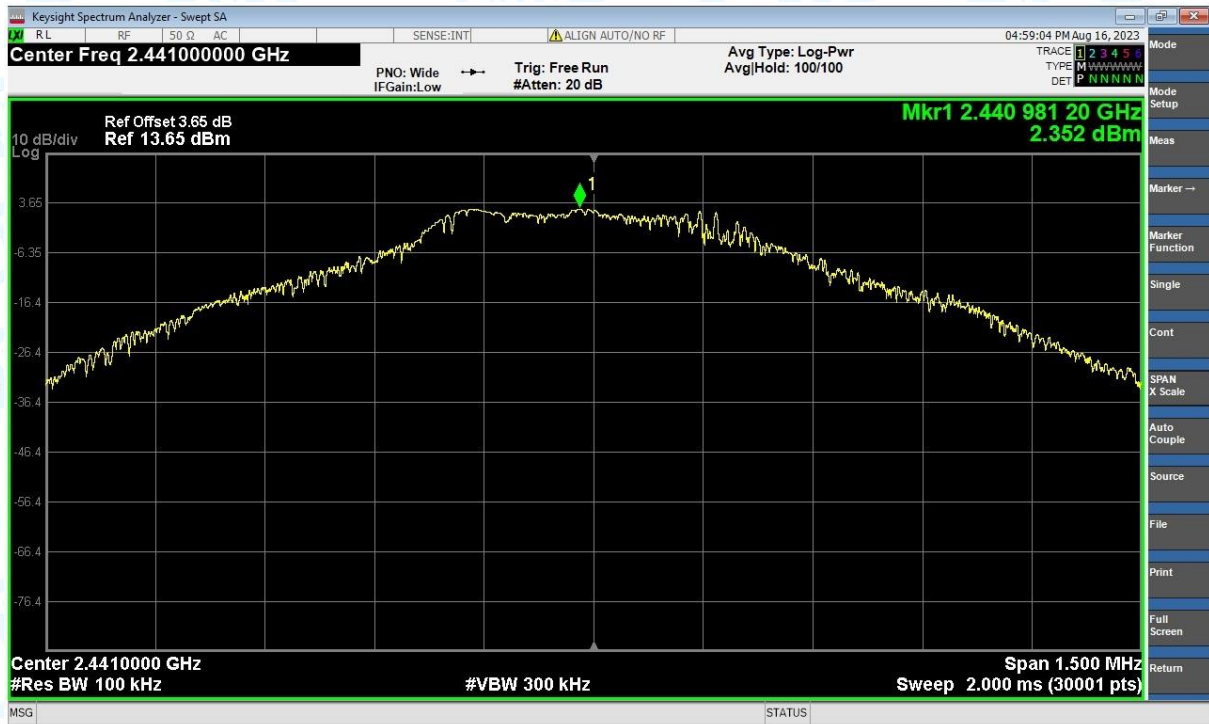
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



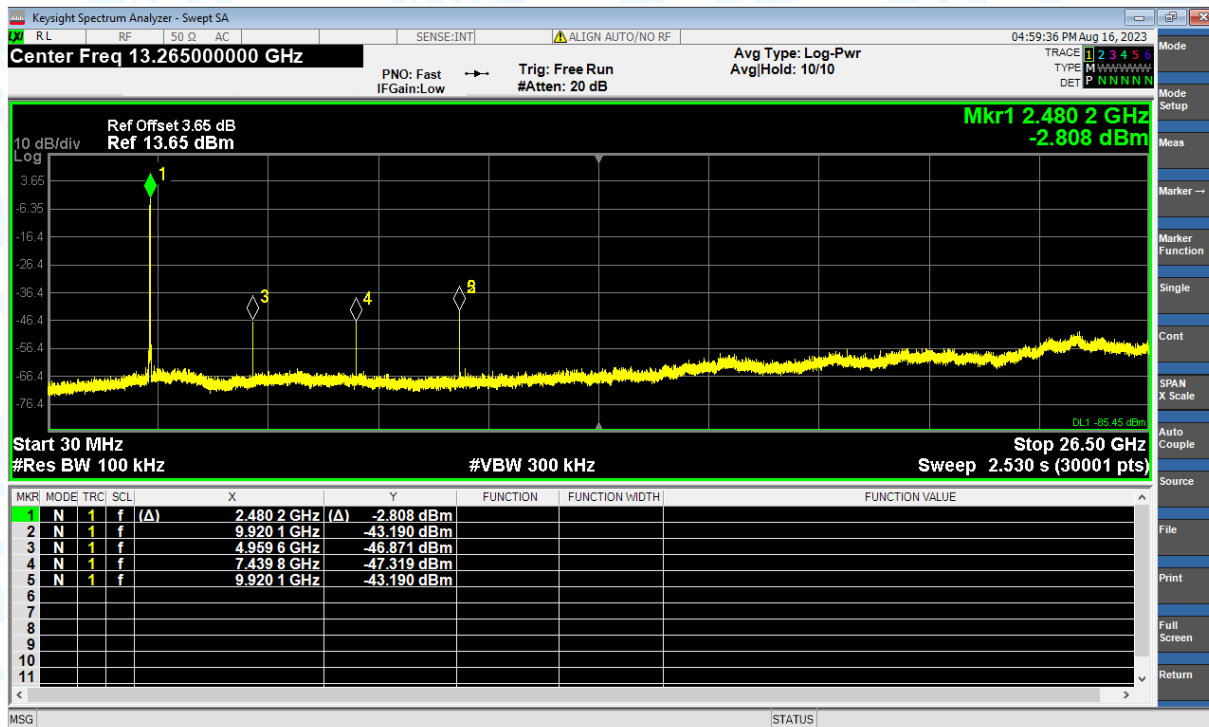
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



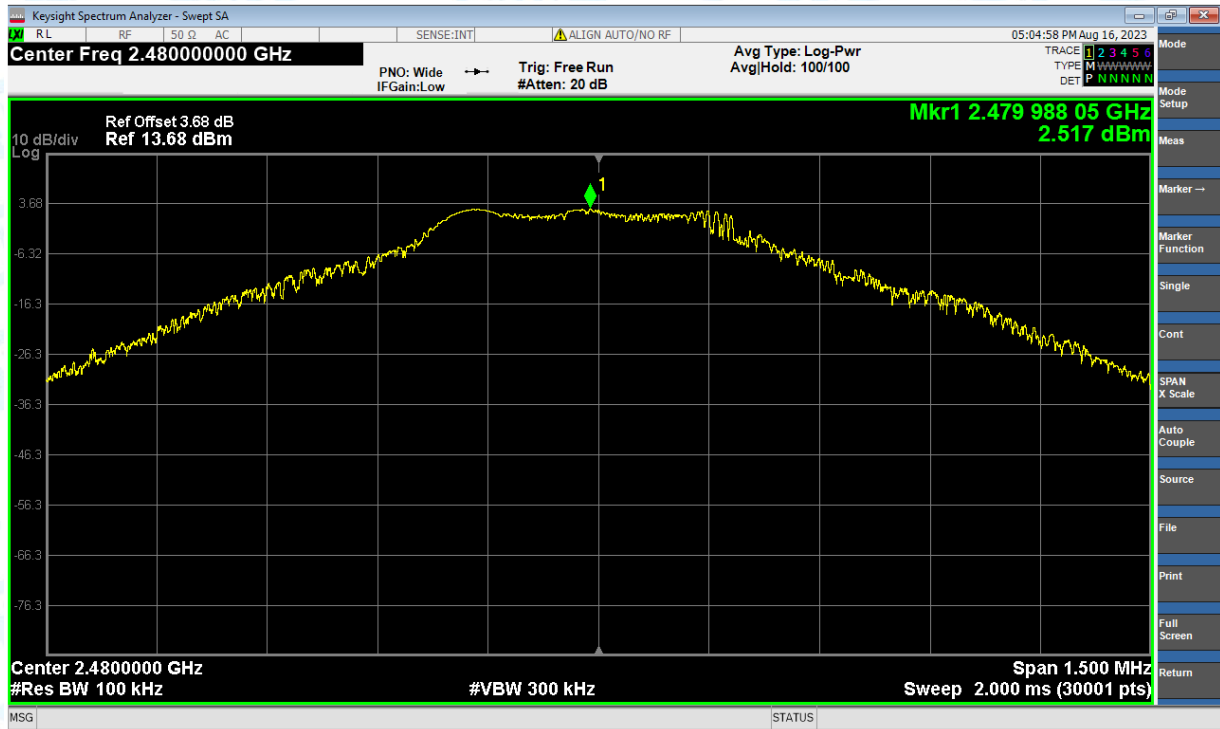
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



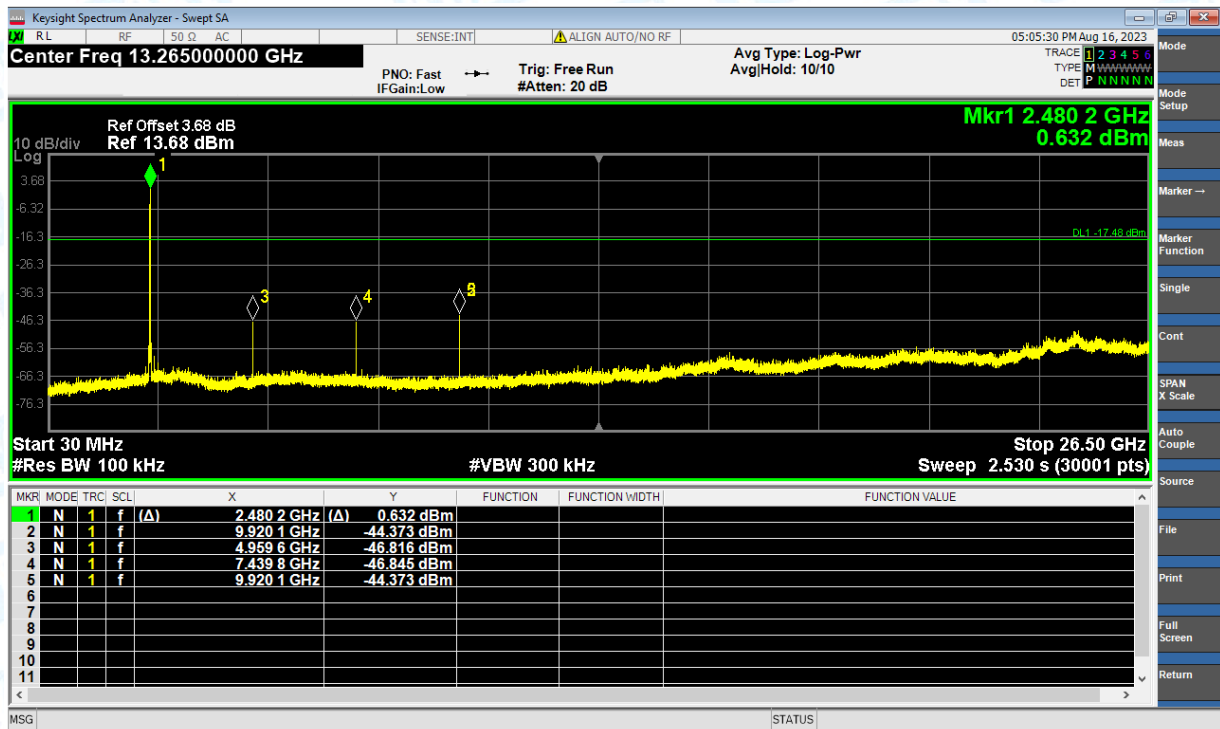
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



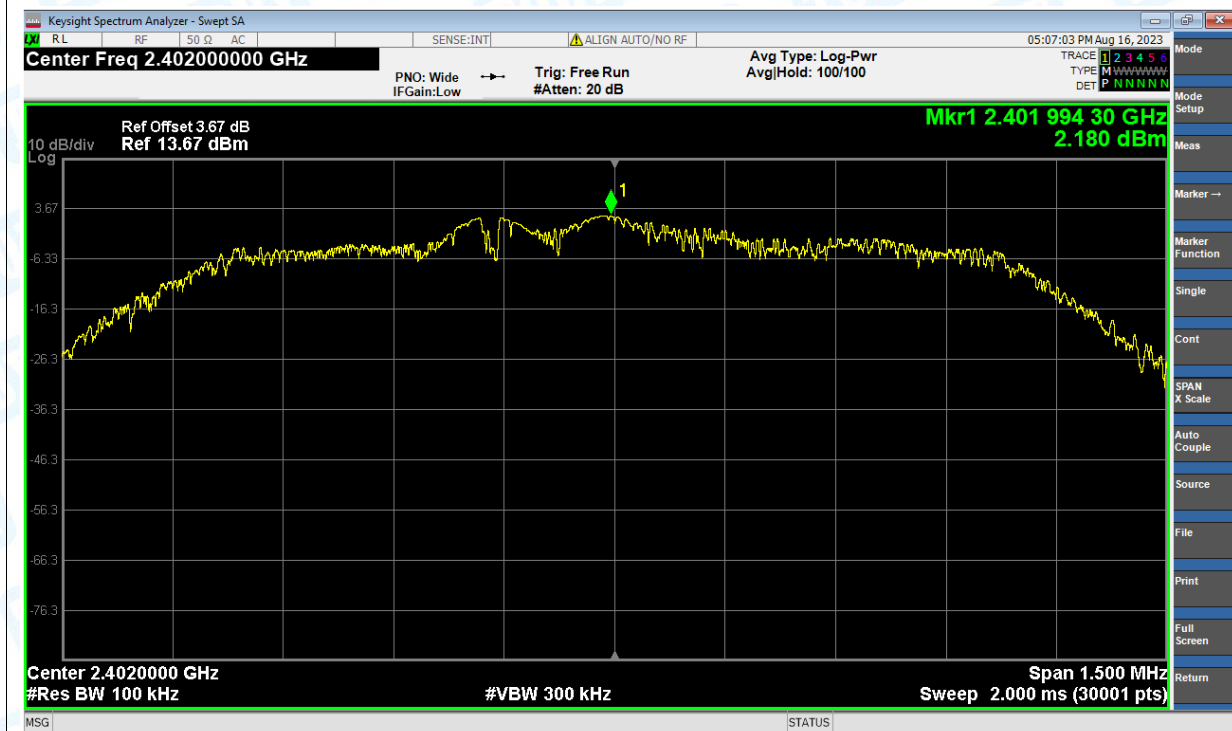
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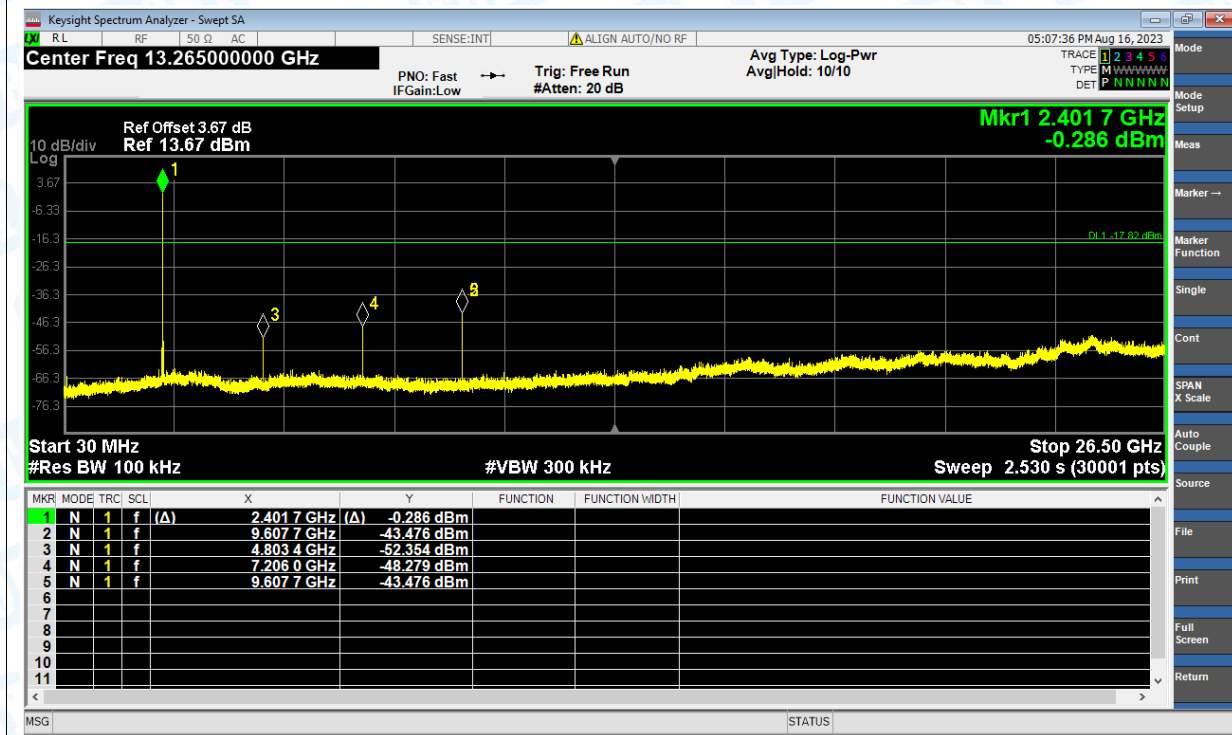
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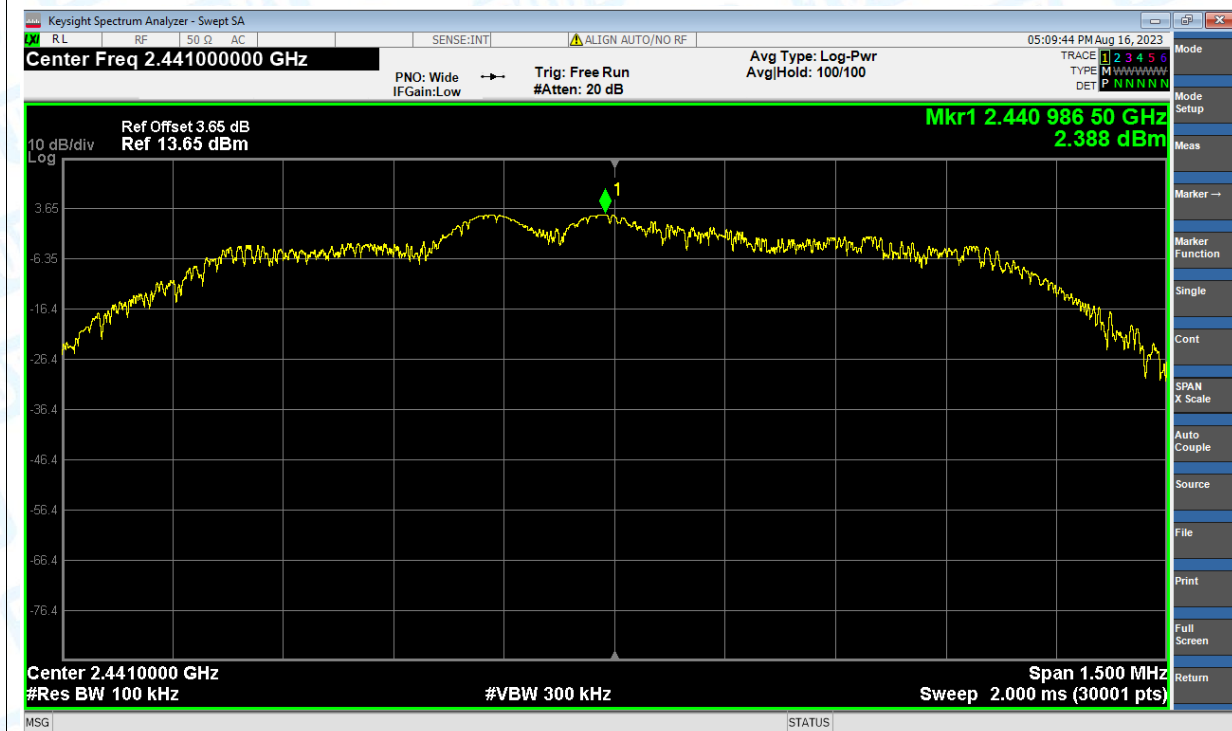
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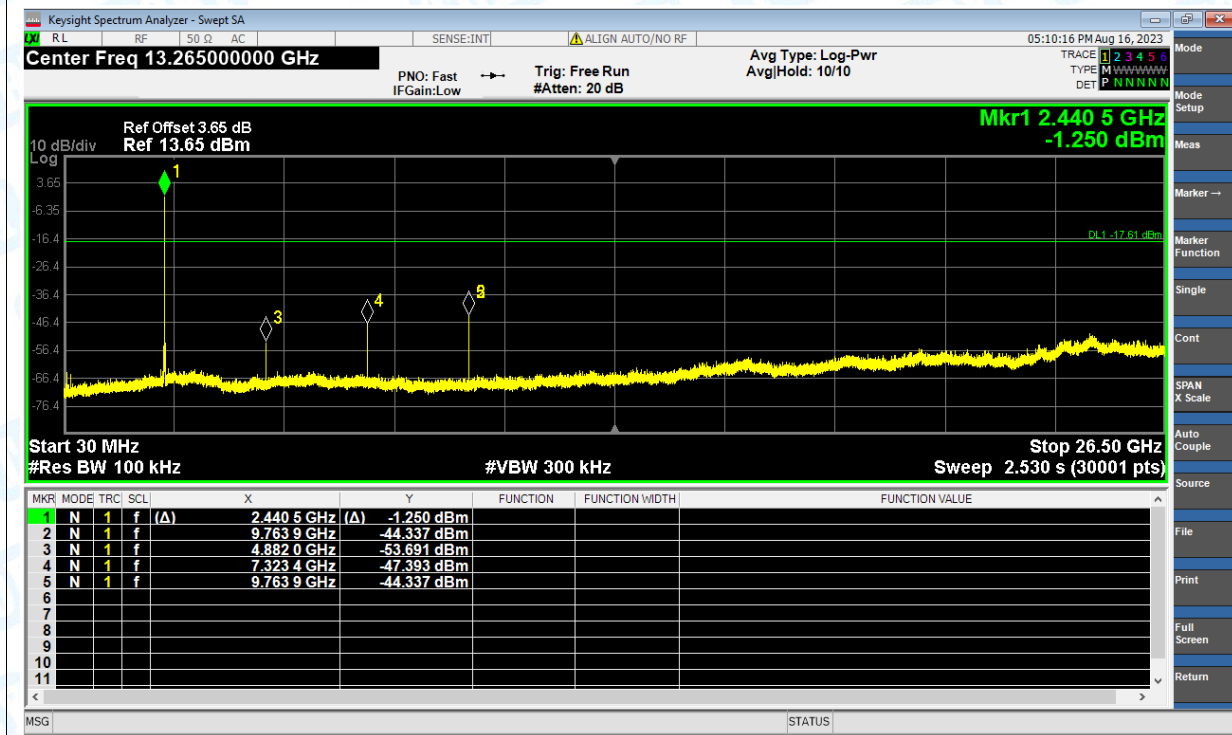
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



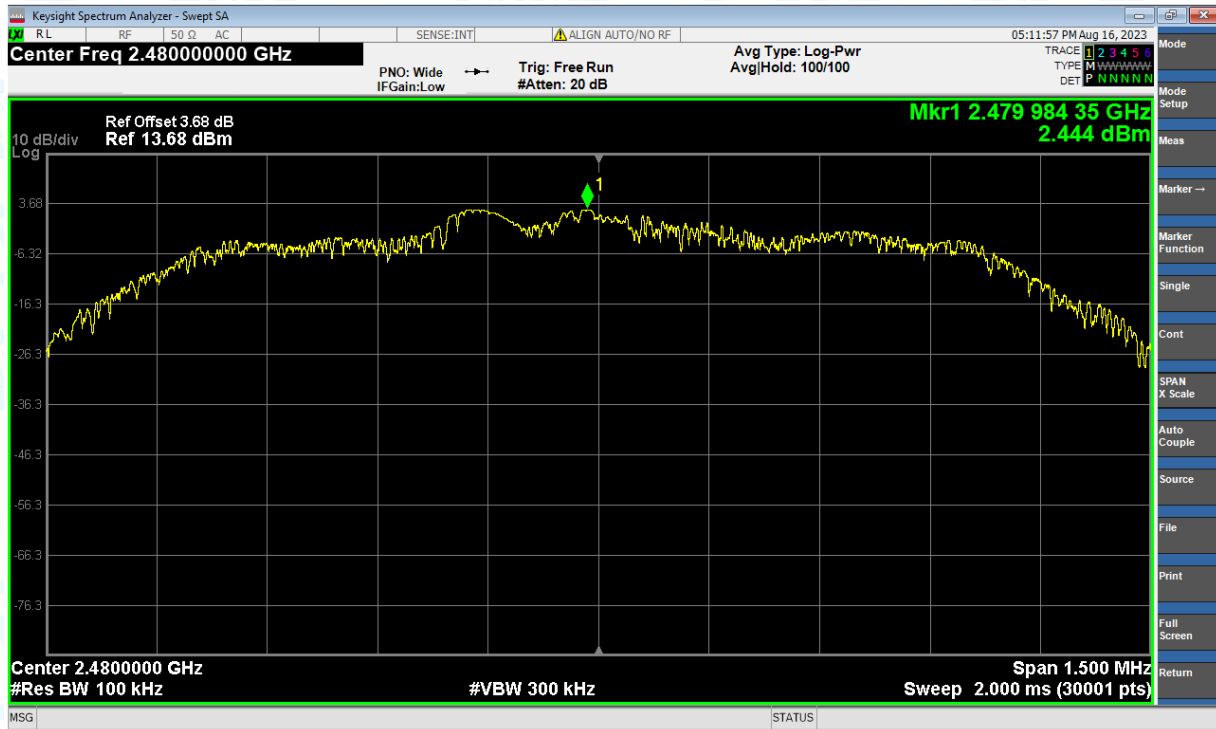
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



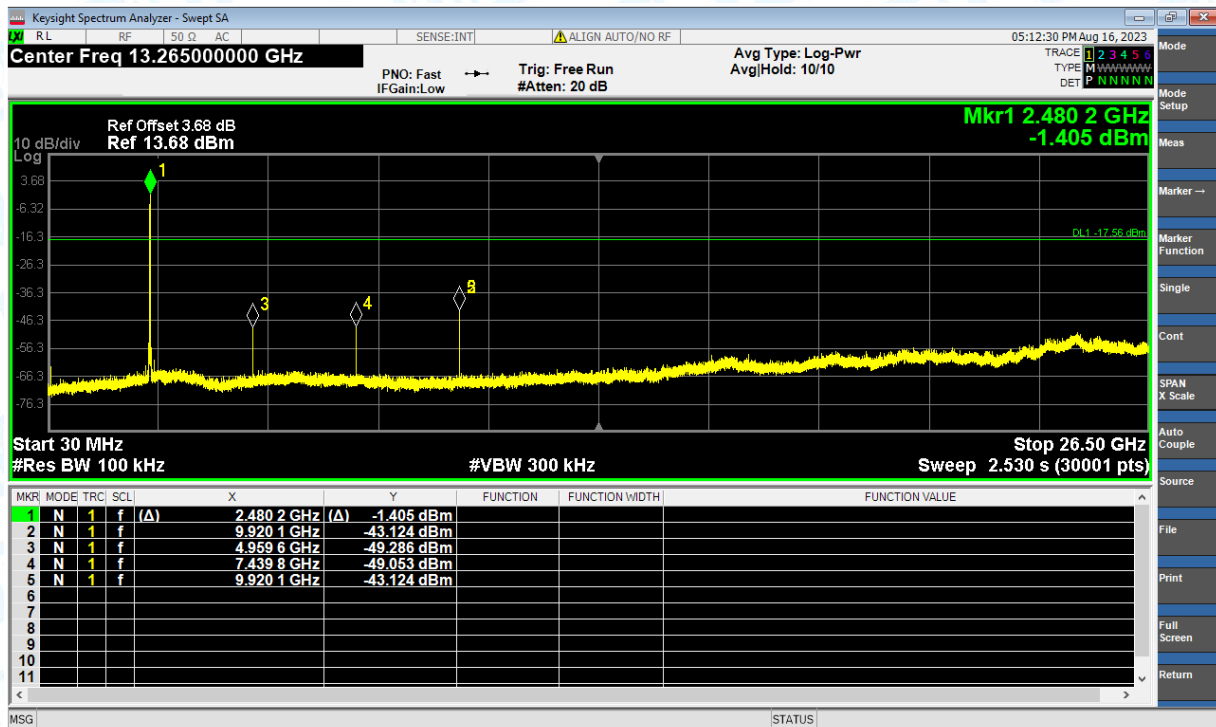
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission

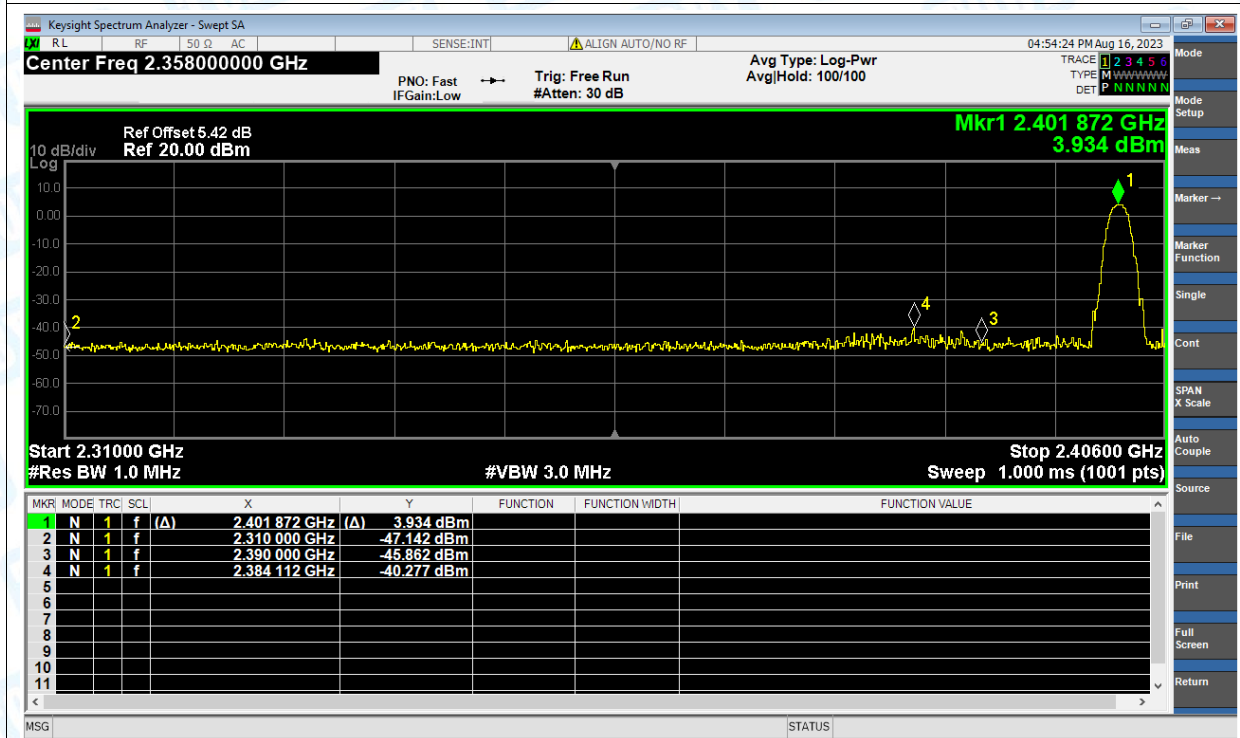


8. Restrict Band

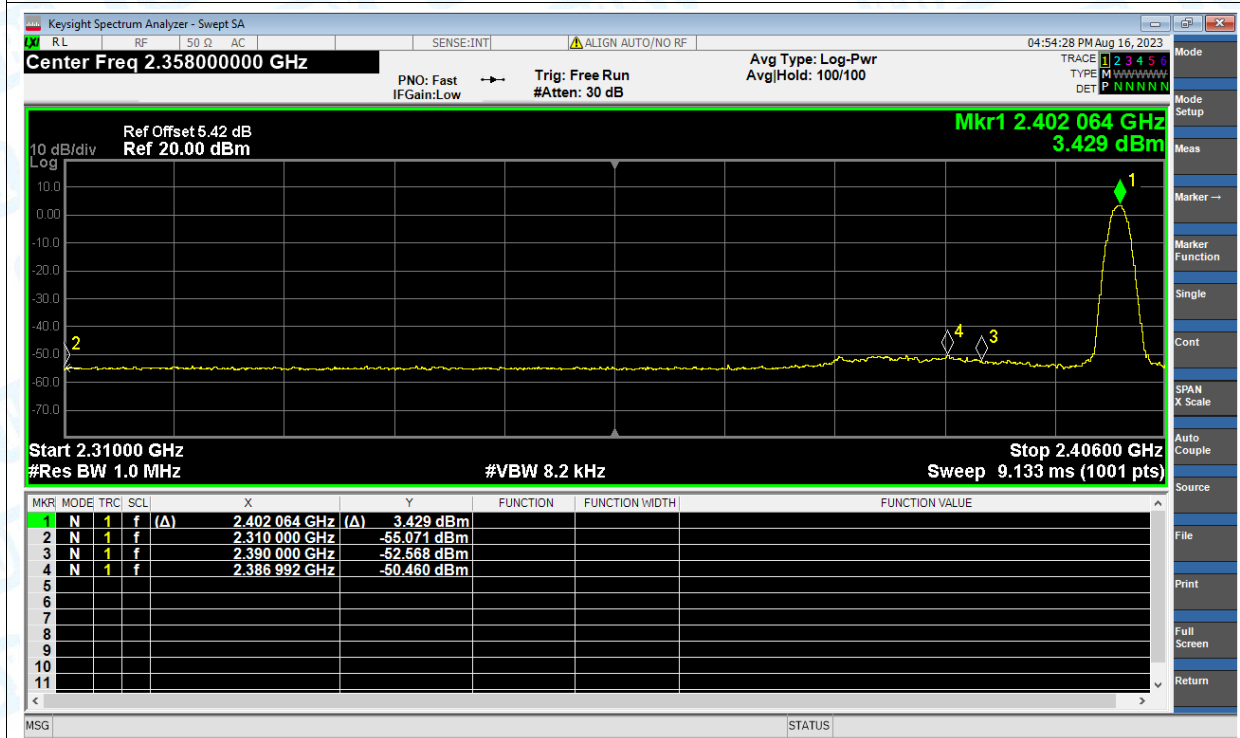
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-47.14	2	50.12	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-55.07	2	42.19	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2384.112	-40.28	2	56.98	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2386.992	-50.46	2	46.8	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-46.36	2	50.9	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-52.7	2	44.56	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-46.28	2	50.98	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-53.25	2	44.01	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2485.312	-38.84	2	58.42	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2499.52	-50.65	2	46.61	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-39.88	2	57.38	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-51.21	2	46.05	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-46.2	2	51.06	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-55.52	2	41.74	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2382.192	-39.47	2	57.79	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2381.712	-50.65	2	46.61	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-42.23	2	55.03	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-52.11	2	45.15	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-44.16	2	53.1	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-53.43	2	43.83	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.704	-38.31	2	58.95	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2498.872	-50.06	2	47.2	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-42.36	2	54.9	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-50.95	2	46.31	Average	54	Pass

Test Graphs

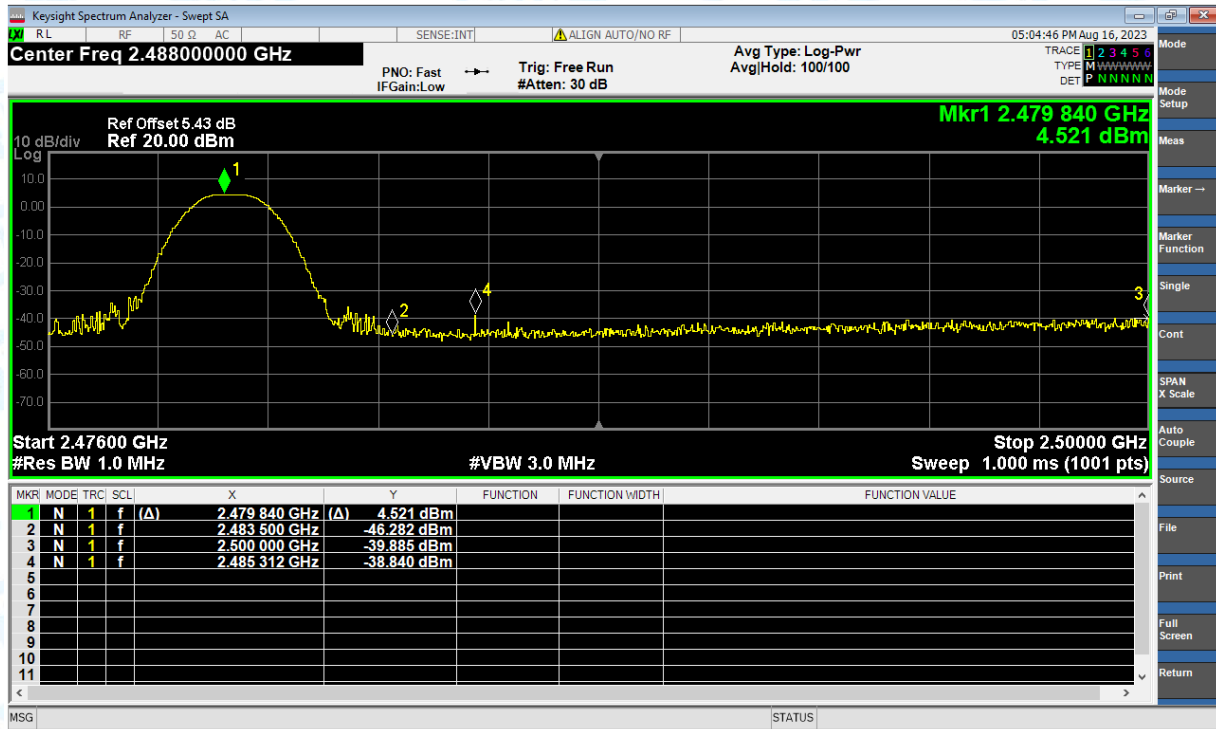
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



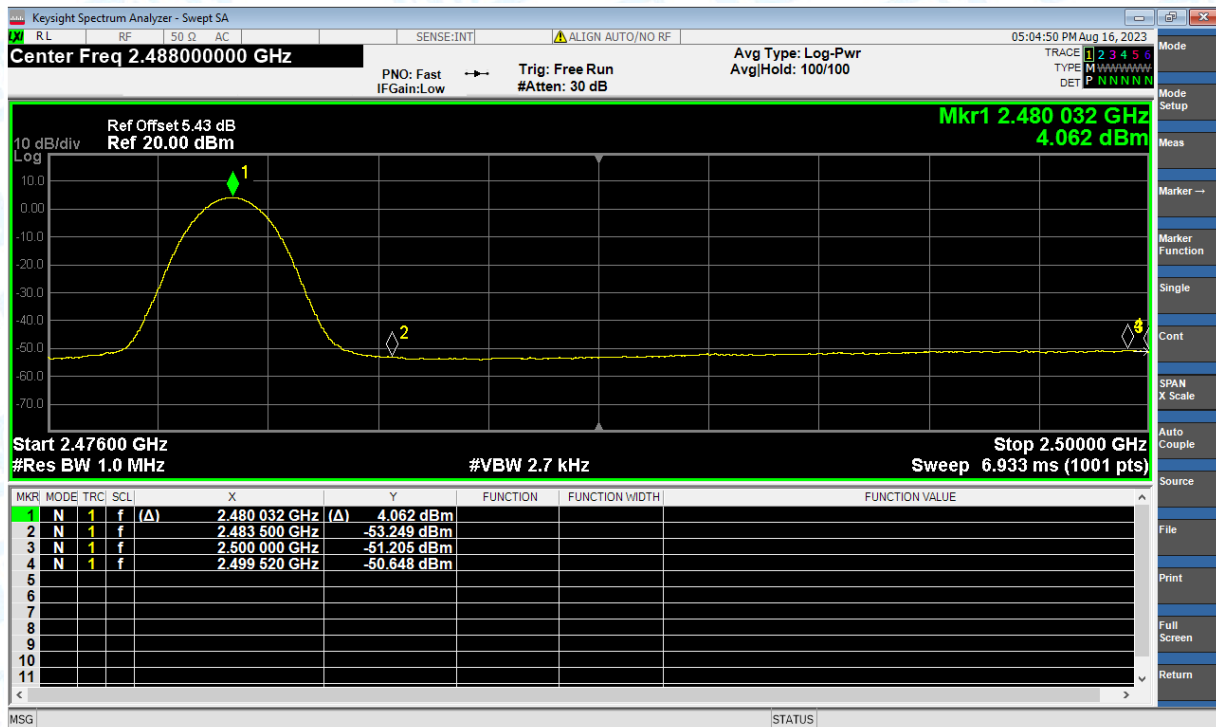
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



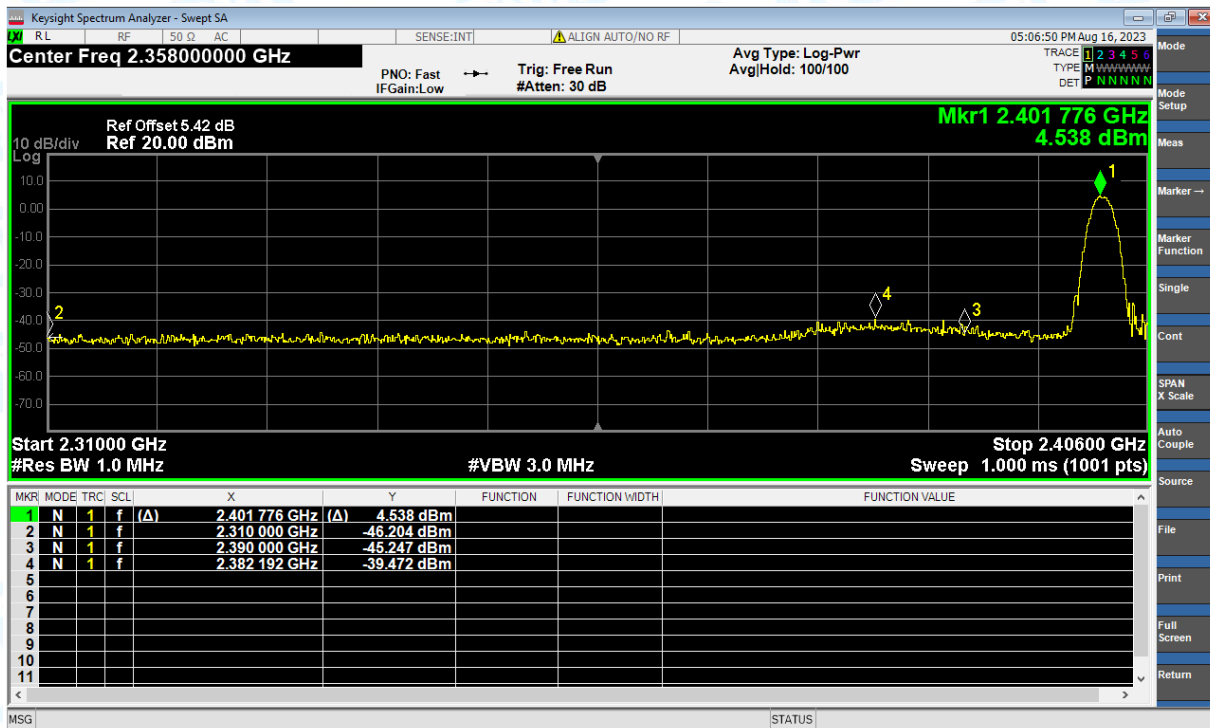
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



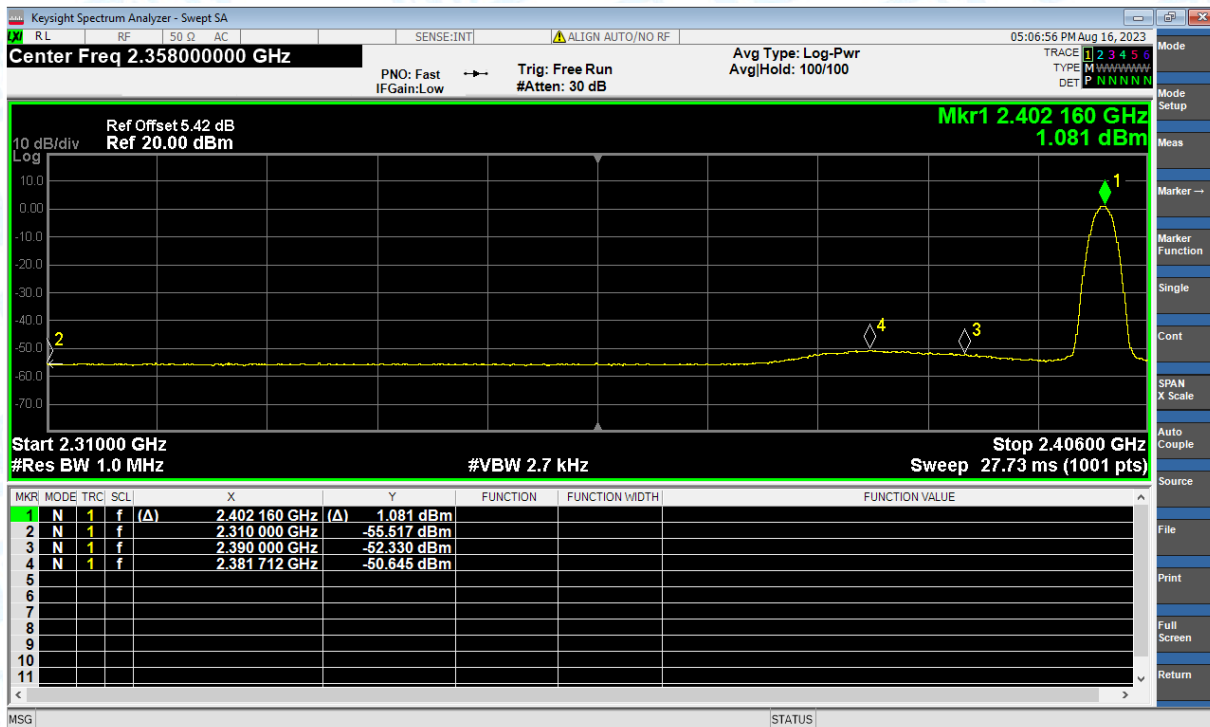
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



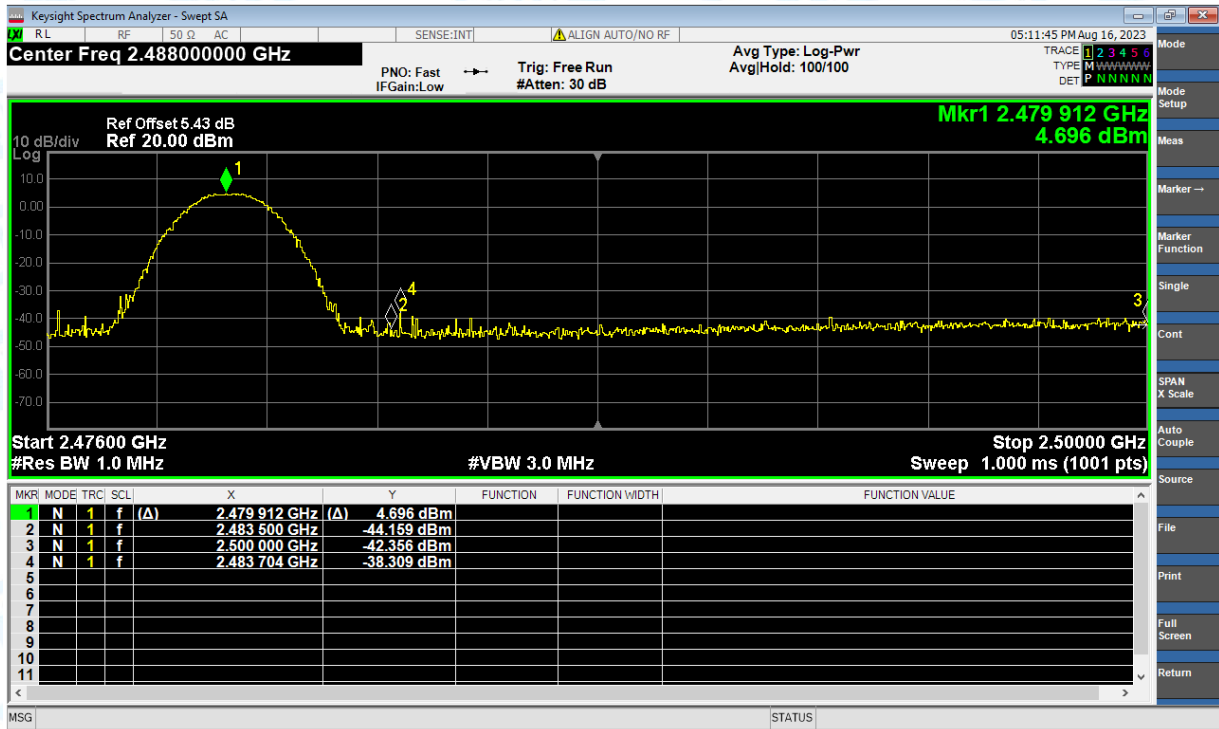
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



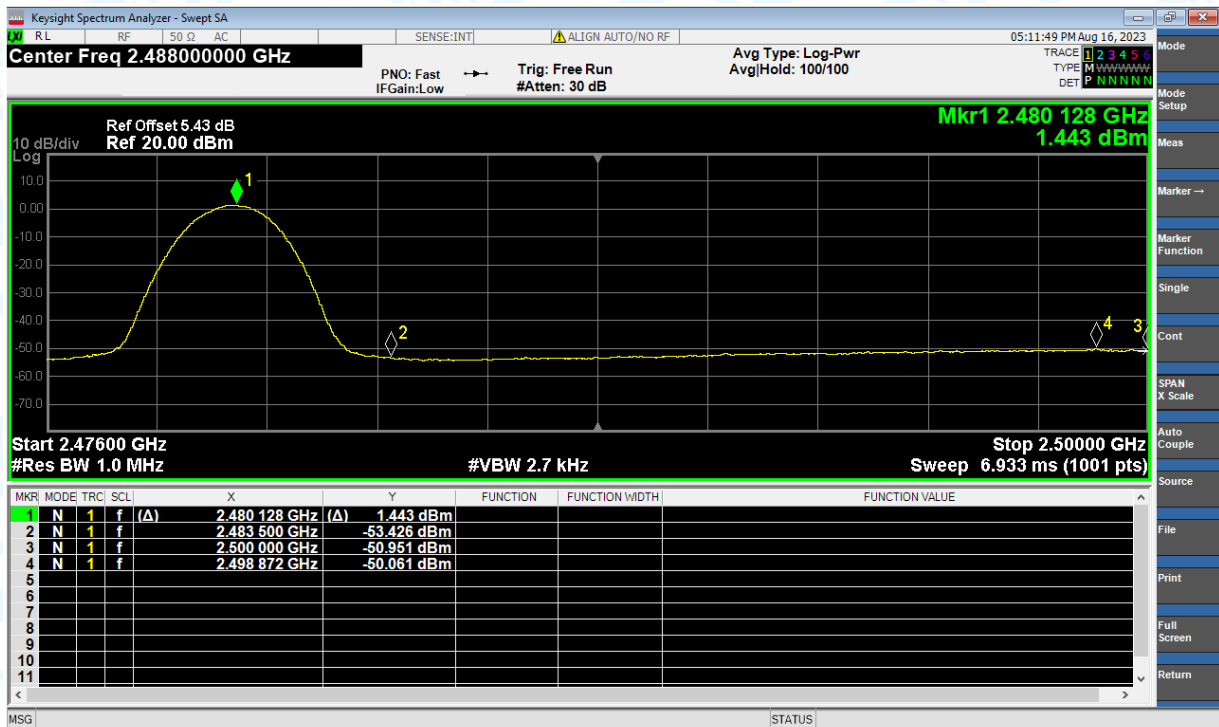
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Average



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



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



9. Carrier Frequencies Separation

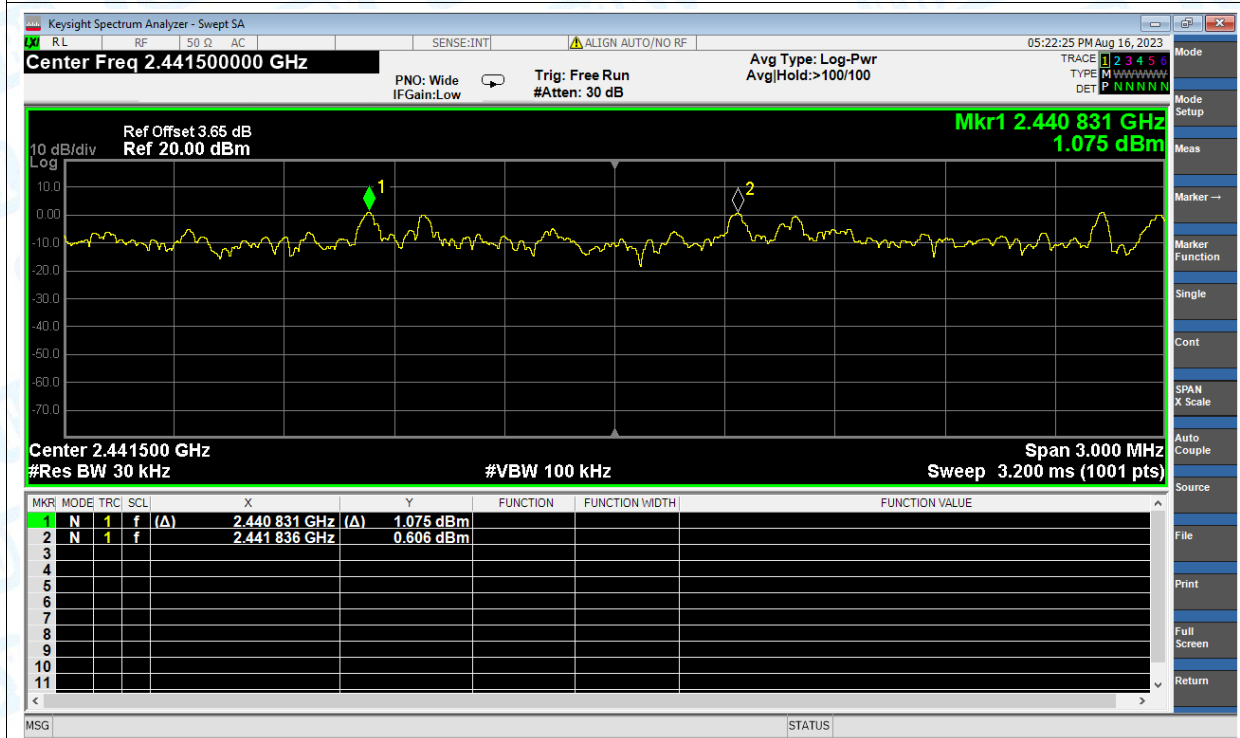
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2440.825	2441.83	1.005	0.56	Pass
NVNT	2-DH1	Ant1	2440.831	2441.836	1.005	0.827	Pass

Test Graphs

CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1

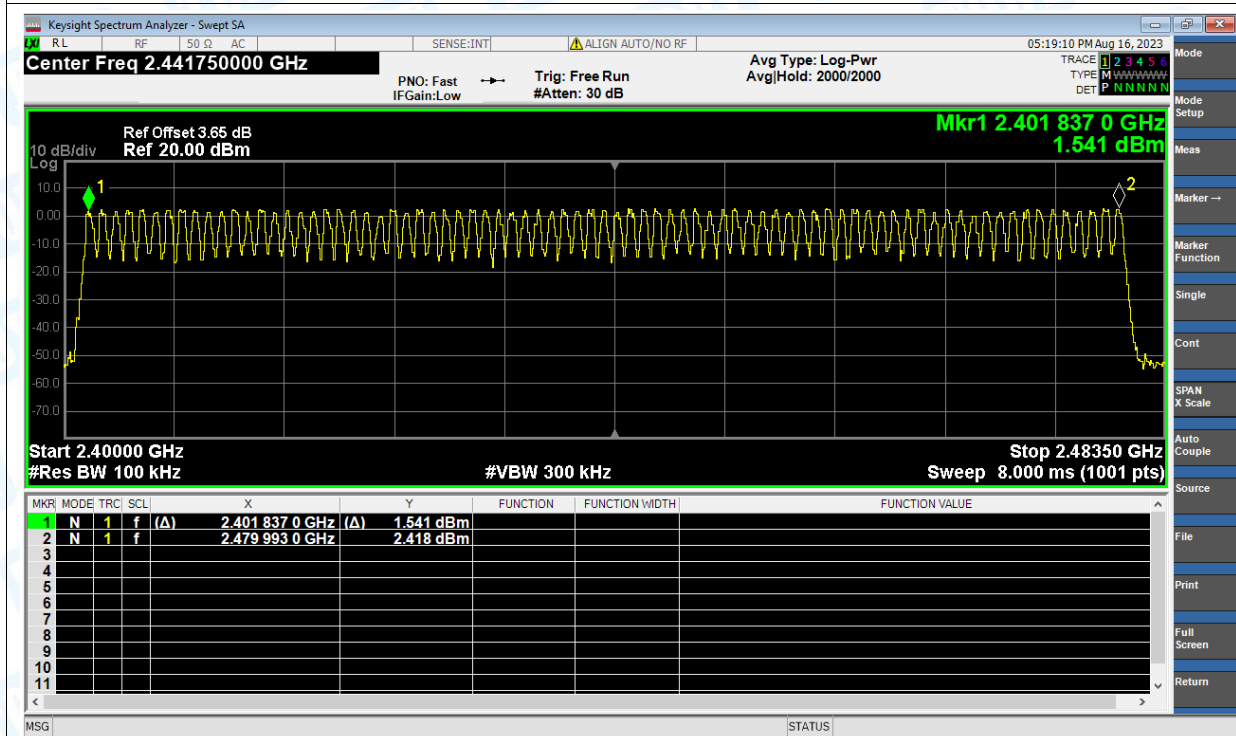


10. Number of Hopping Channel

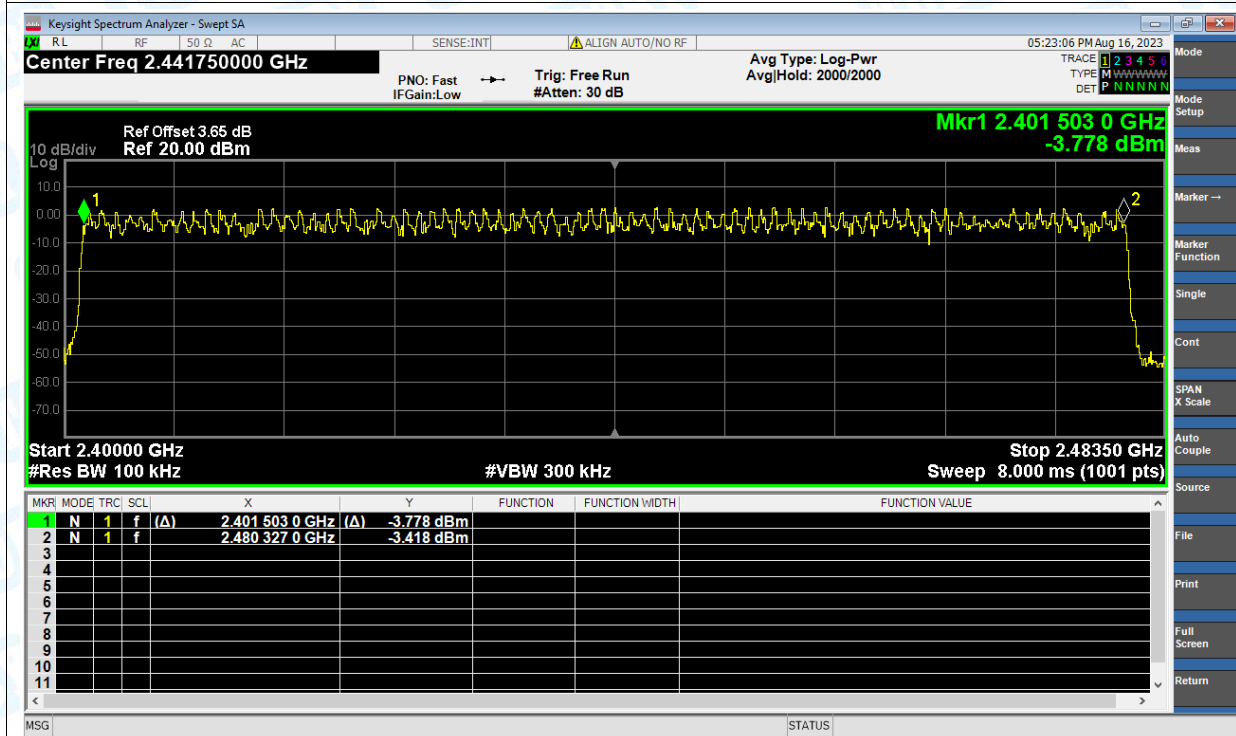
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass

Test Graphs

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1

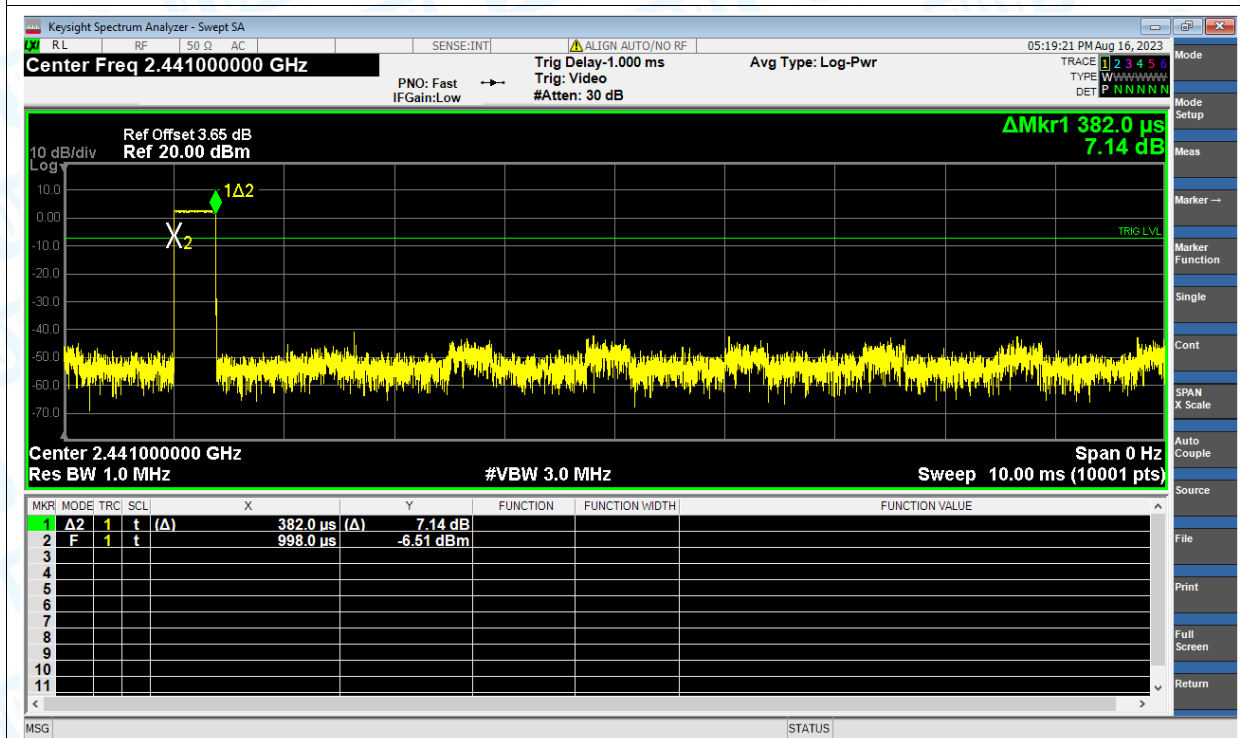


11. Dwell Time

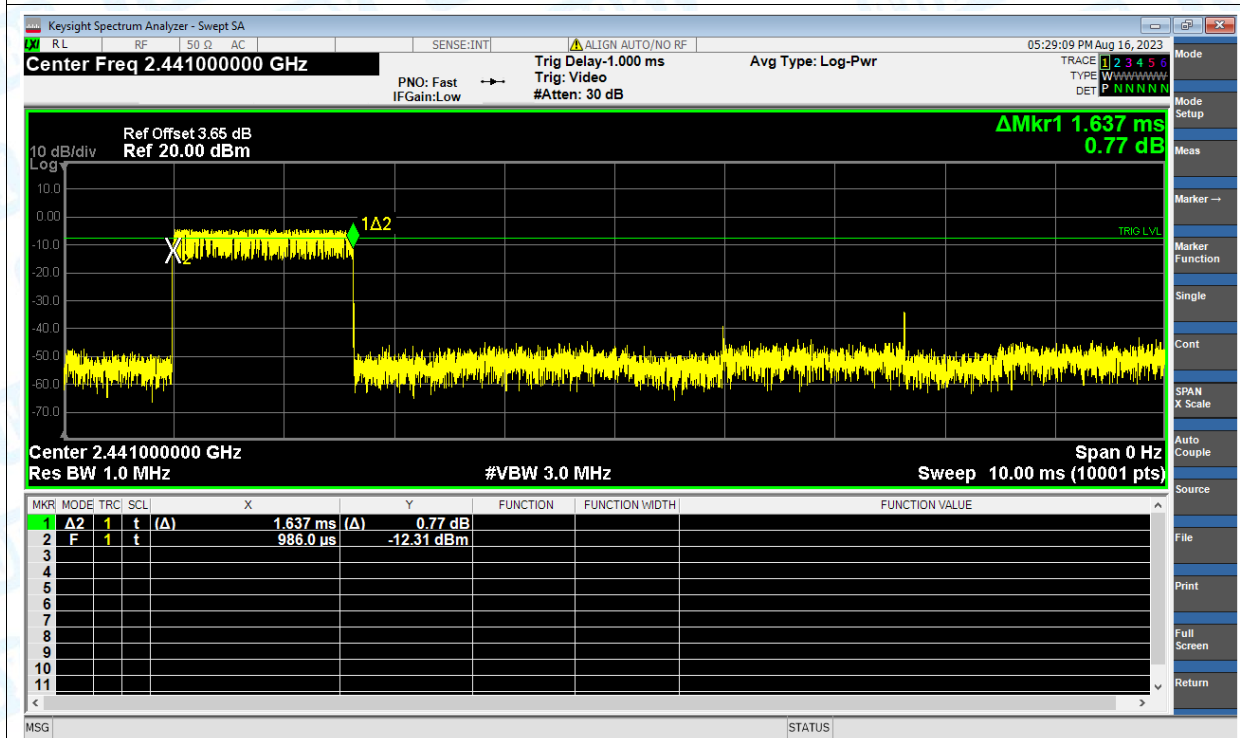
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.382	122.24	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.637	261.92	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.886	307.84	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.392	125.44	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.643	262.88	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.891	308.373	31600	400	Pass

Test Graphs

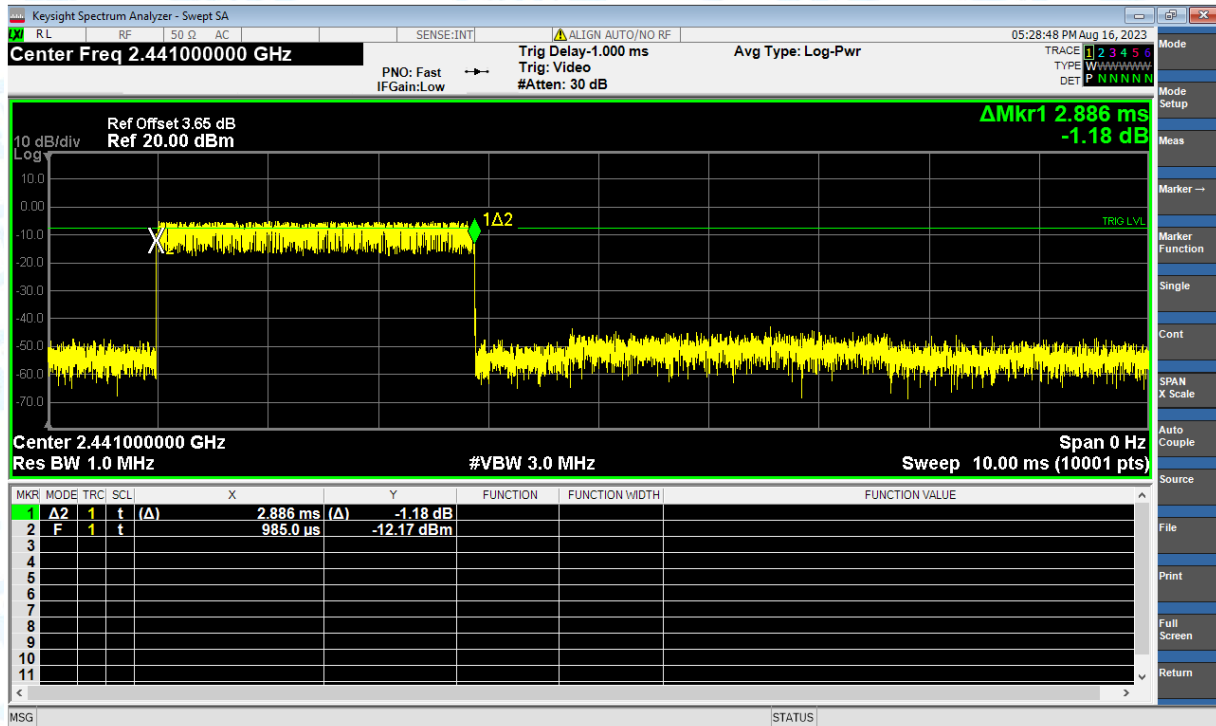
Dwell NVNT 1-DH1 2441MHz Ant1



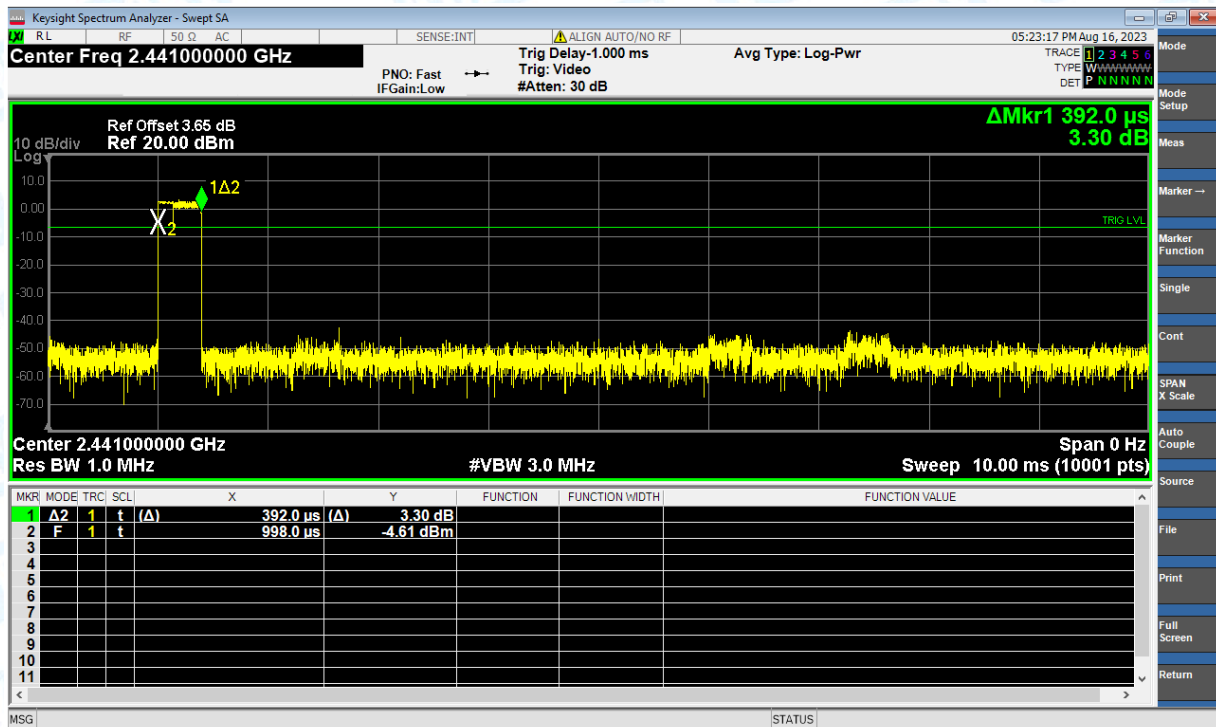
Dwell NVNT 1-DH3 2441MHz Ant1



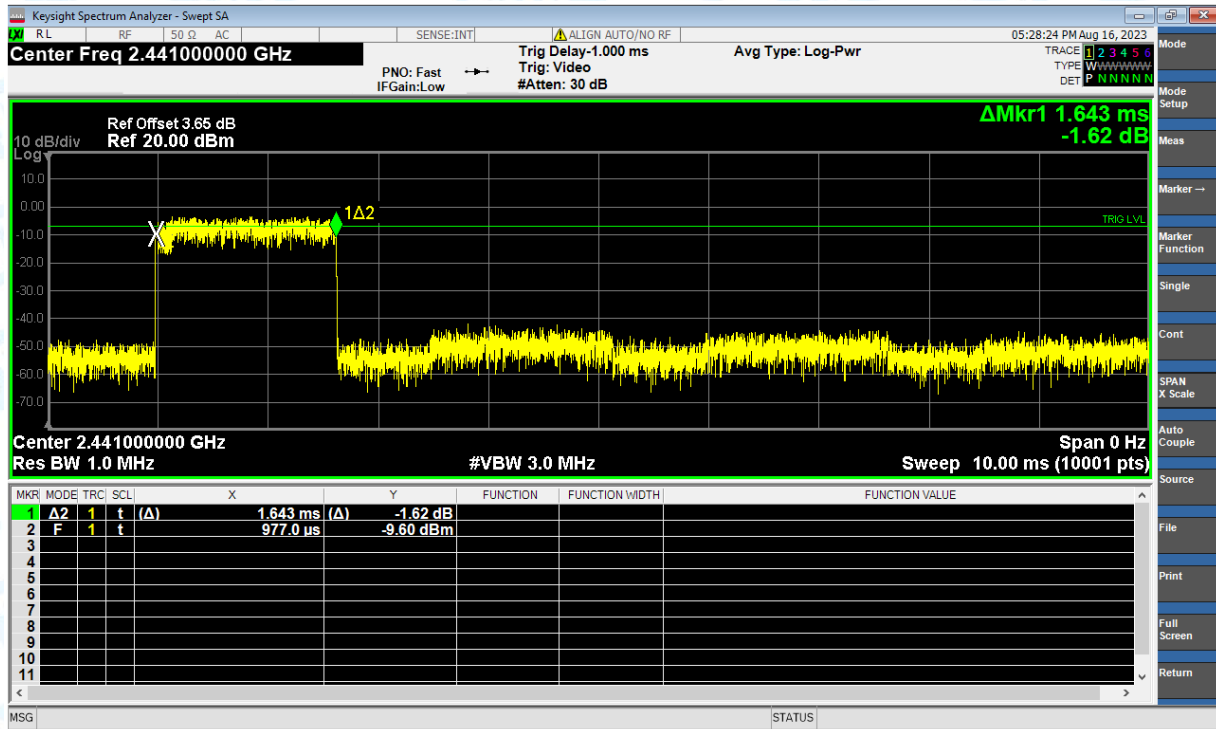
Dwell NVNT 1-DH5 2441MHz Ant1



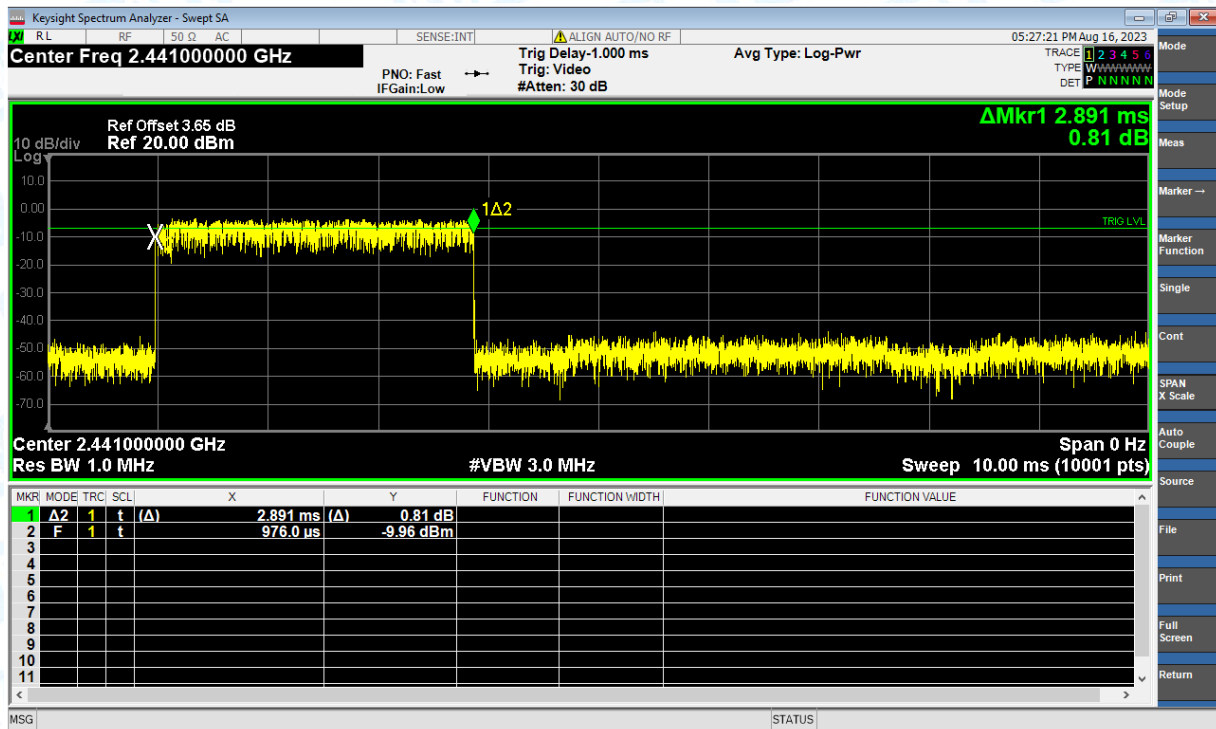
Dwell NVNT 2-DH1 2441MHz Ant1



Dwell NVNT 2-DH3 2441MHz Ant1



Dwell NVNT 2-DH5 2441MHz Ant1



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