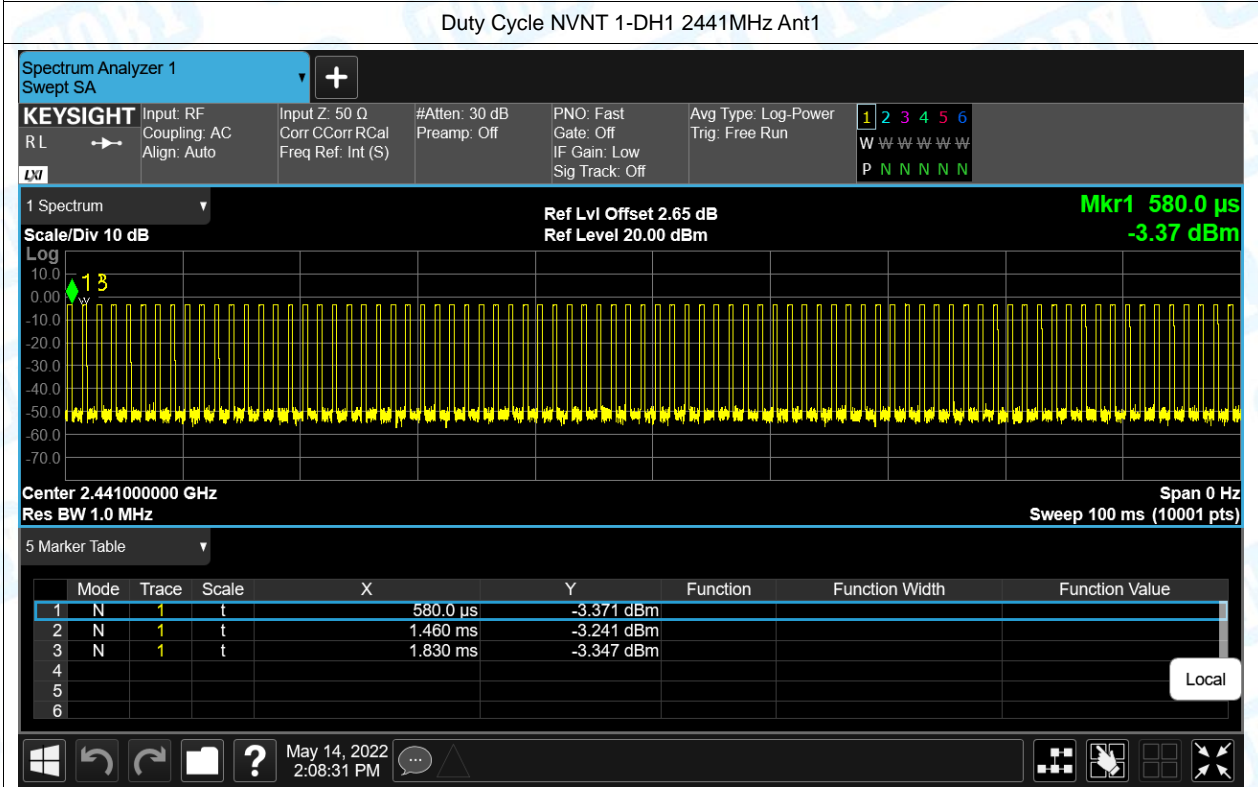
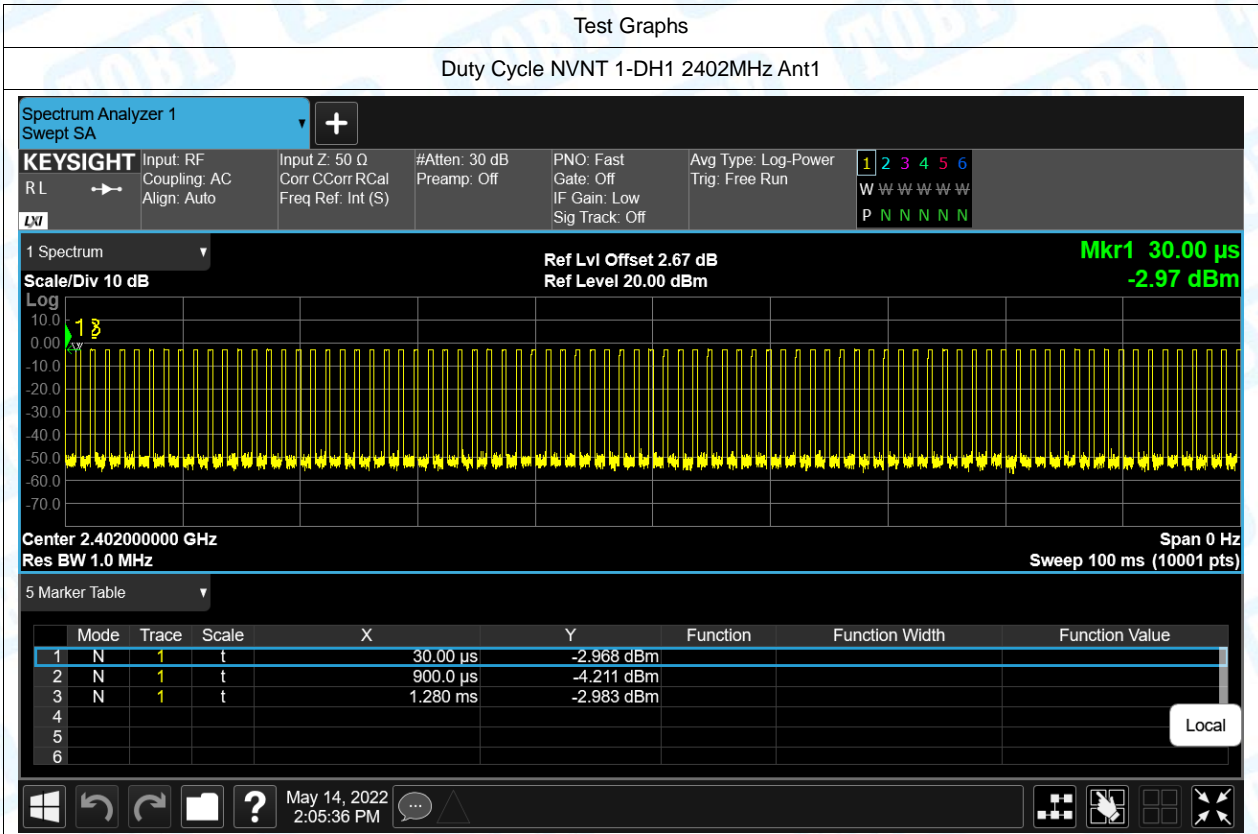


RF Test Data for Bluetooth(BDR+EDR) (Conducted Measurements)

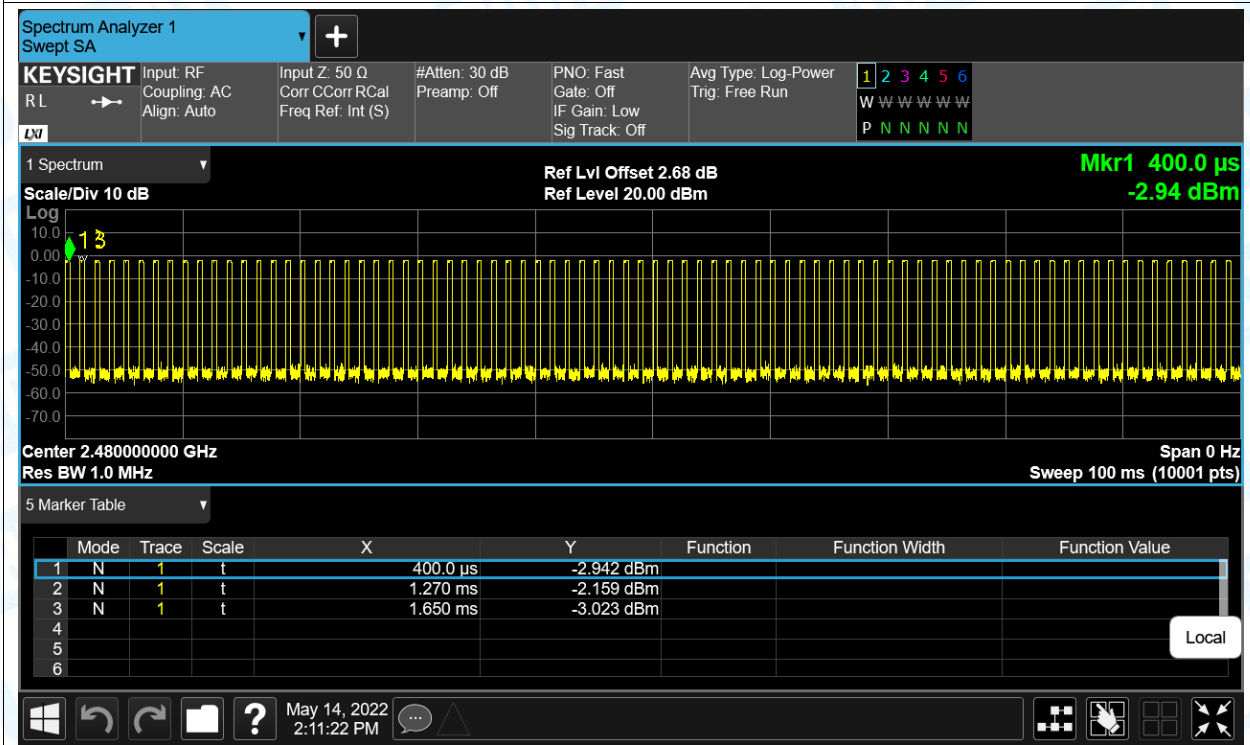
General Description of EUT	
Product Name:	Self-Tuning Hearing Aids
Test Model:	ZT2111
Sample ID:	RW-C-202204-0283-1-2#
Environmental Conditions	
Temperature:	23.8°C
Relative Humidity:	48%
Test Voltage:	DC 3.7V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202204-0283-1	

1. Duty Cycle

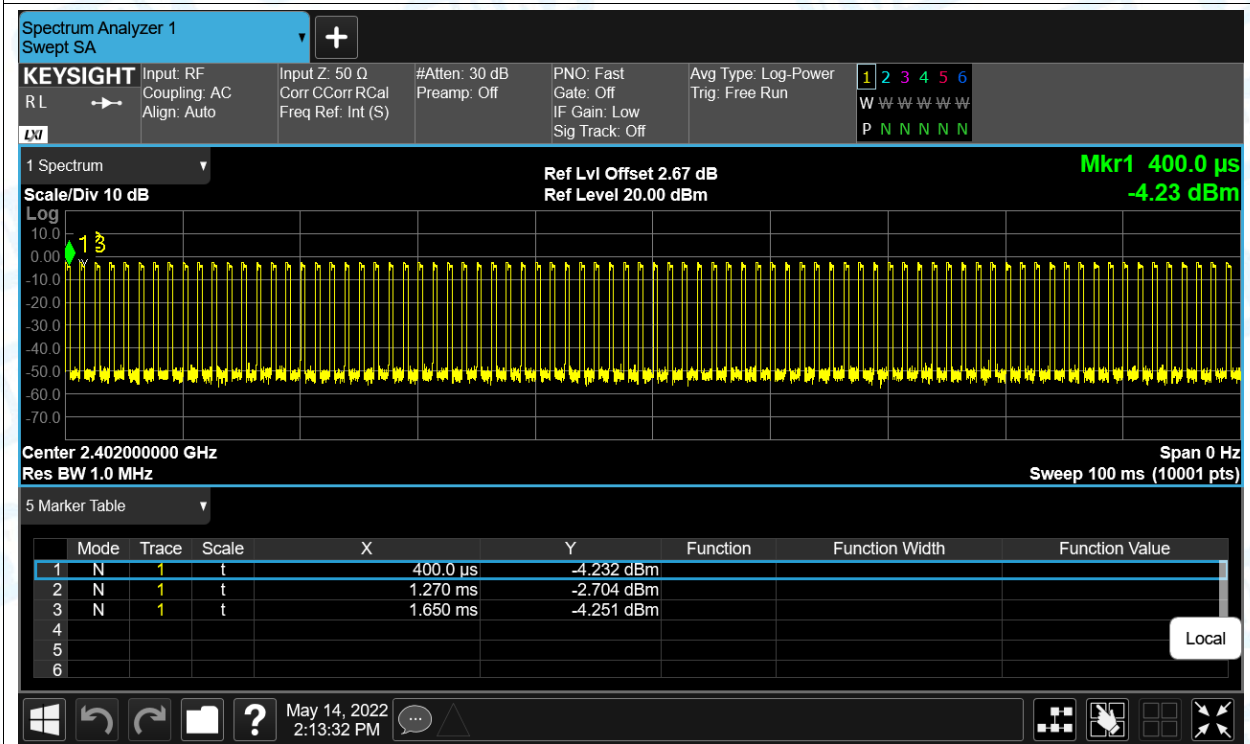
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	31.21	5.06	2.63
NVNT	1-DH1	2441	Ant1	31.05	5.08	2.7
NVNT	1-DH1	2480	Ant1	31.2	5.06	2.63
NVNT	2-DH1	2402	Ant1	31.2	5.06	2.63
NVNT	2-DH1	2441	Ant1	31.2	5.06	2.63
NVNT	2-DH1	2480	Ant1	32	4.95	2.56
NVNT	3-DH1	2402	Ant1	31.22	5.06	2.63
NVNT	3-DH1	2441	Ant1	32.01	4.95	2.56
NVNT	3-DH1	2480	Ant1	31.2	5.06	2.63



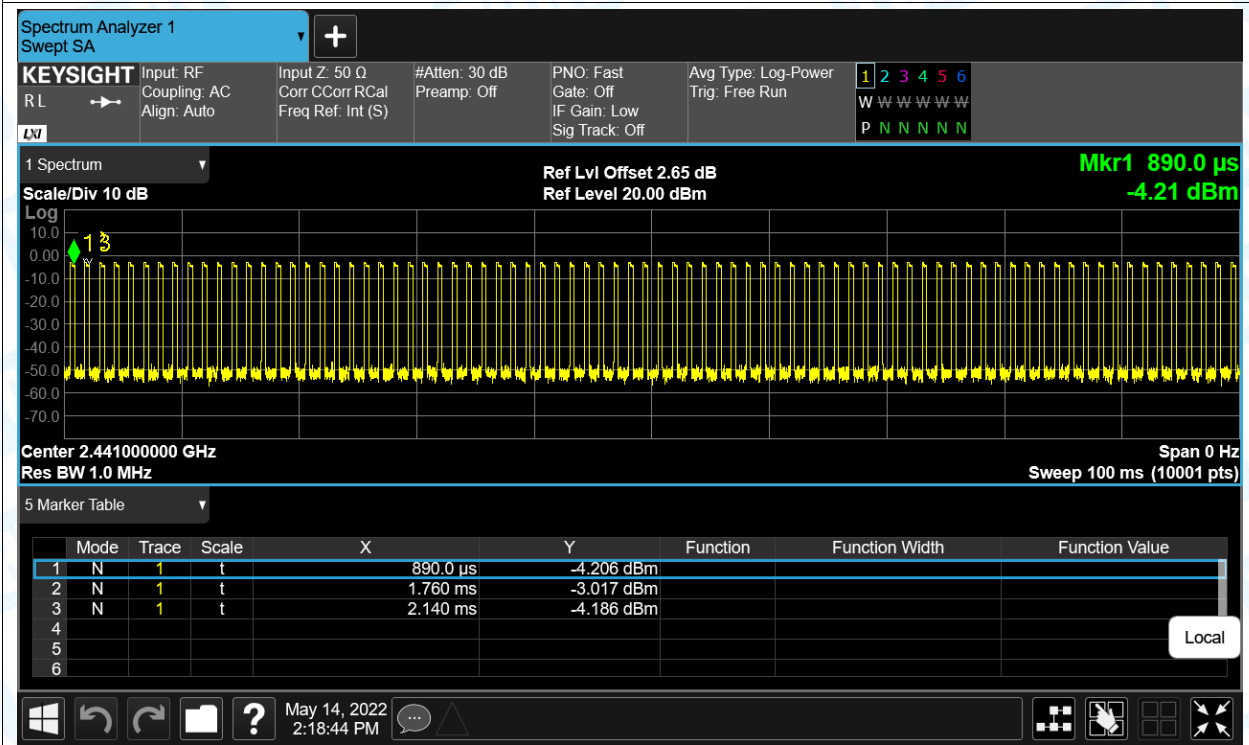
Duty Cycle NVNT 1-DH1 2480MHz Ant1



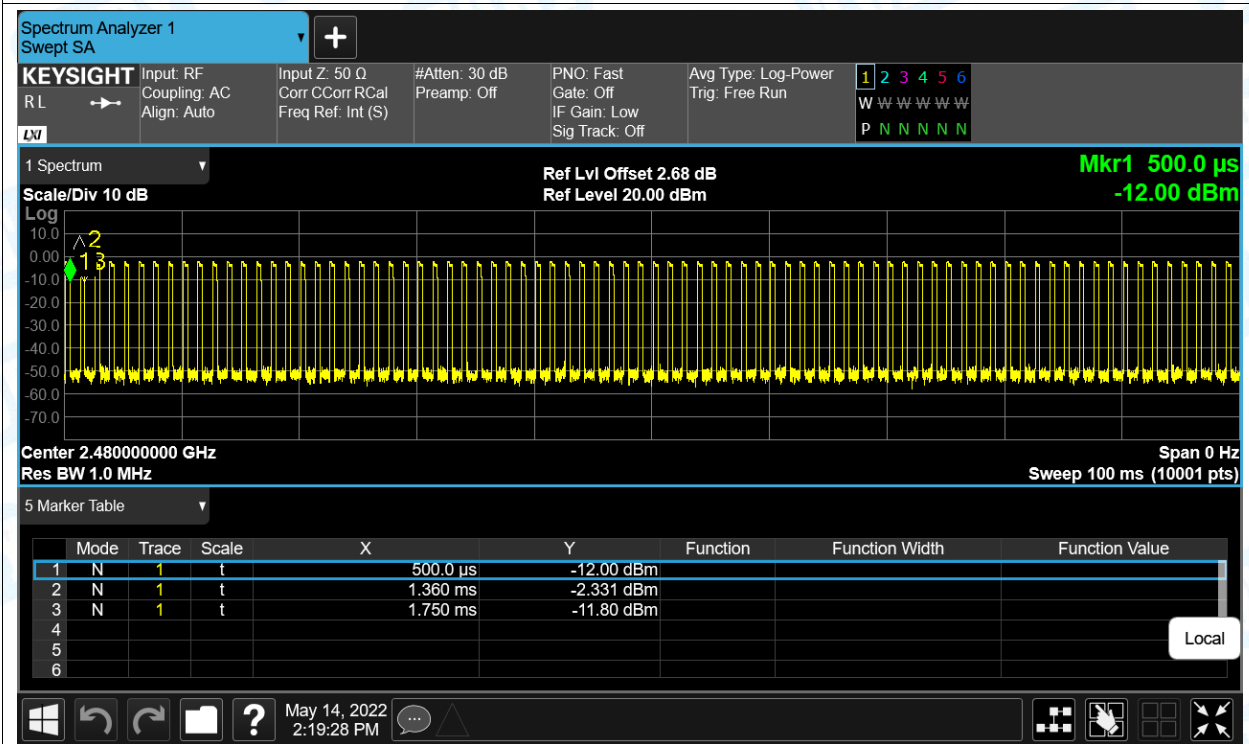
Duty Cycle NVNT 2-DH1 2402MHz Ant1



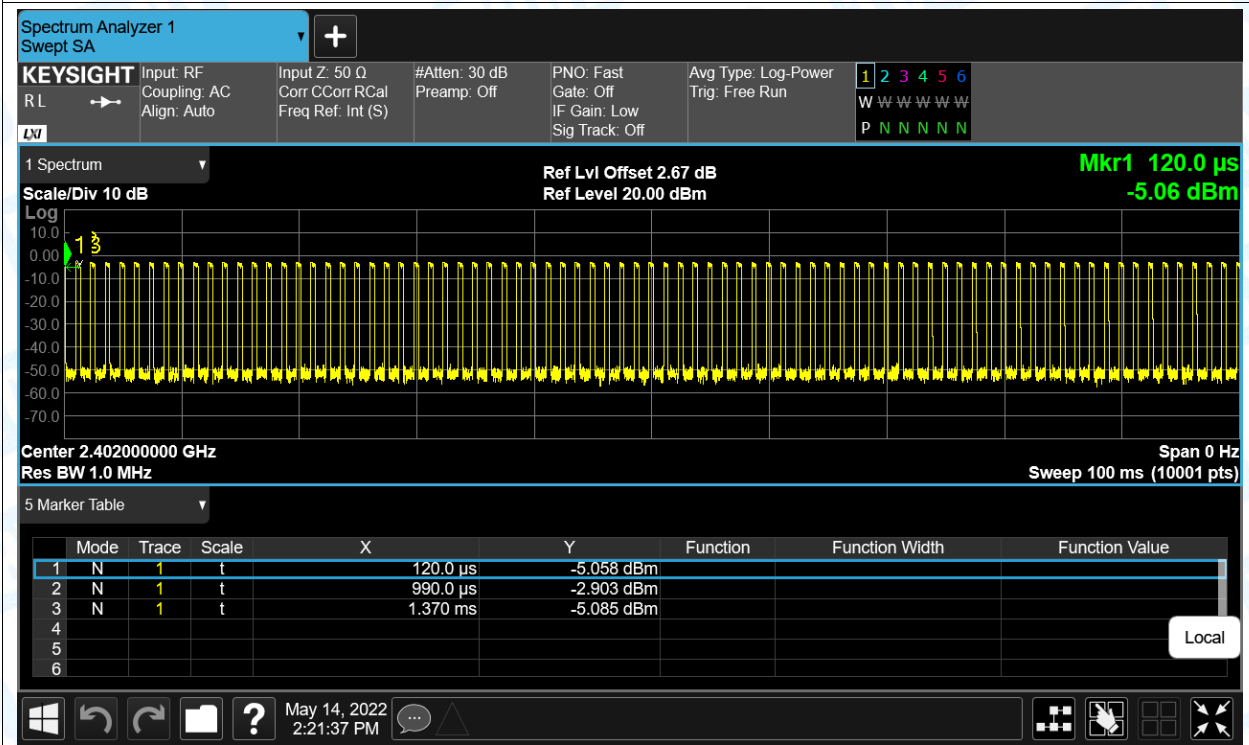
Duty Cycle NVNT 2-DH1 2441MHz Ant1



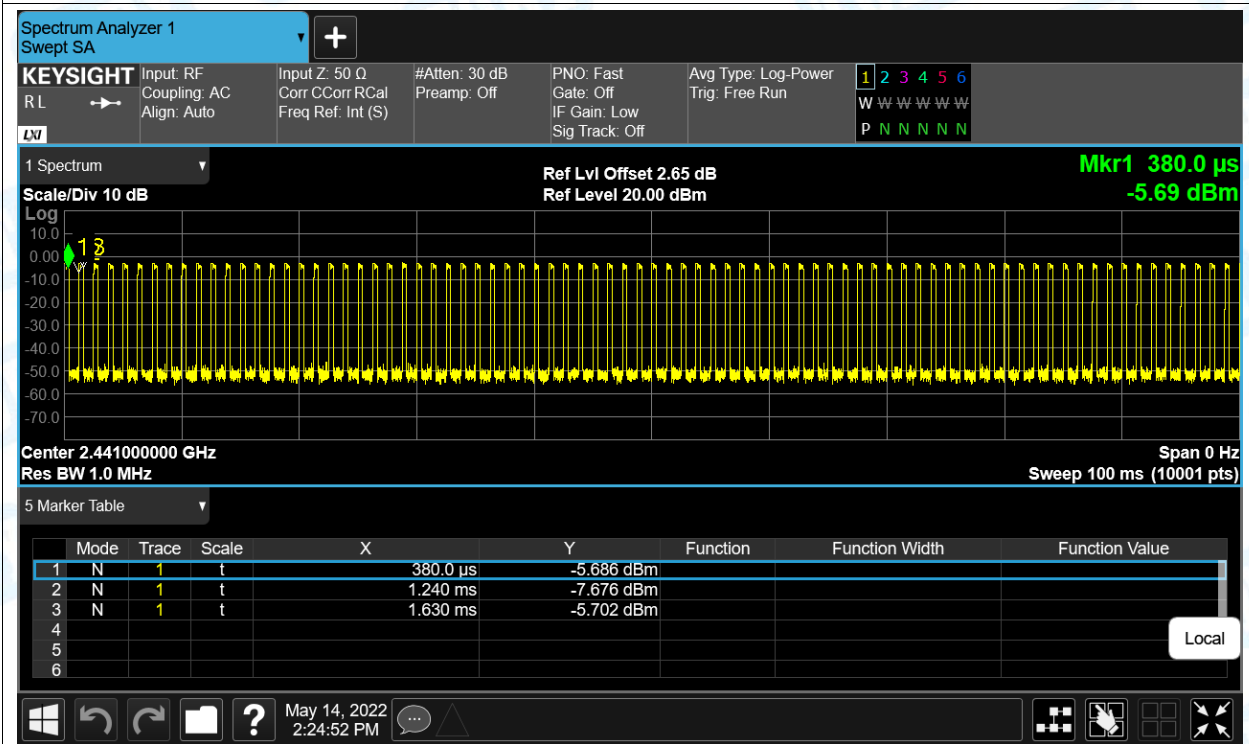
Duty Cycle NVNT 2-DH1 2480MHz Ant1

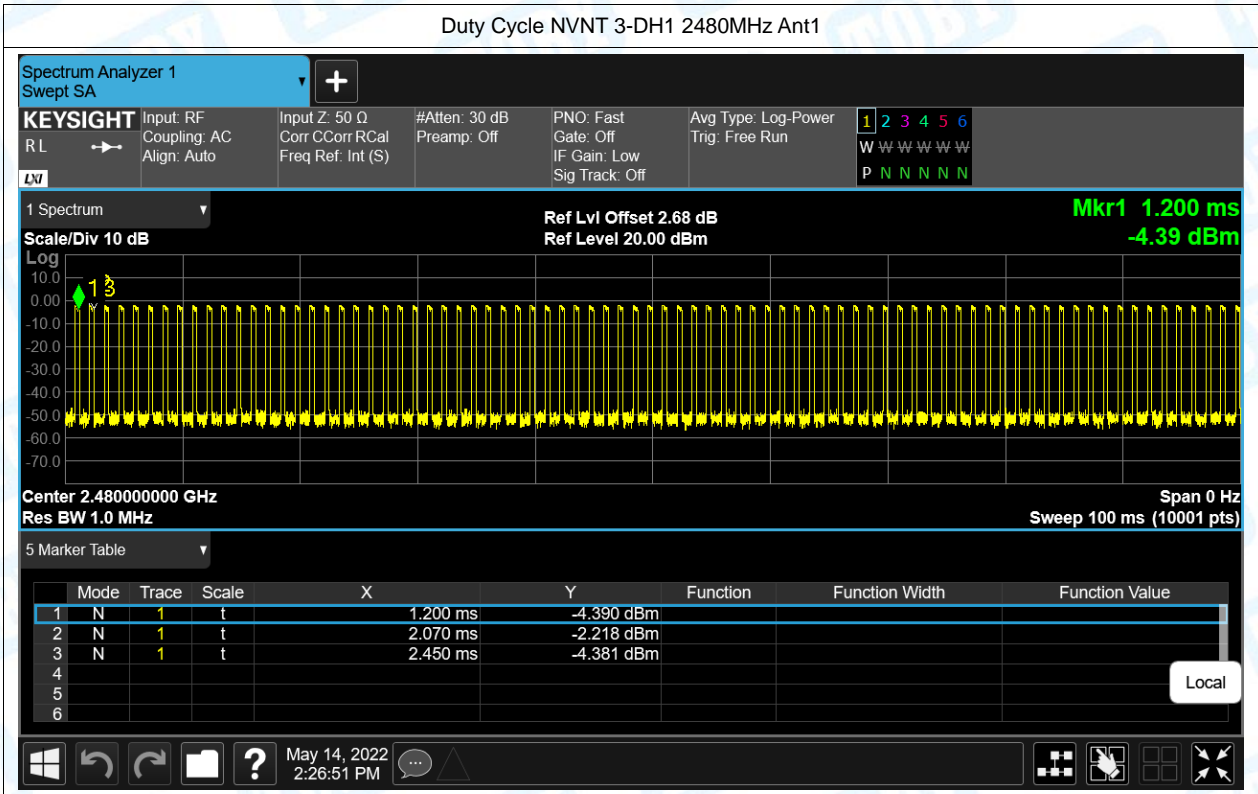


Duty Cycle NVNT 3-DH1 2402MHz Ant1



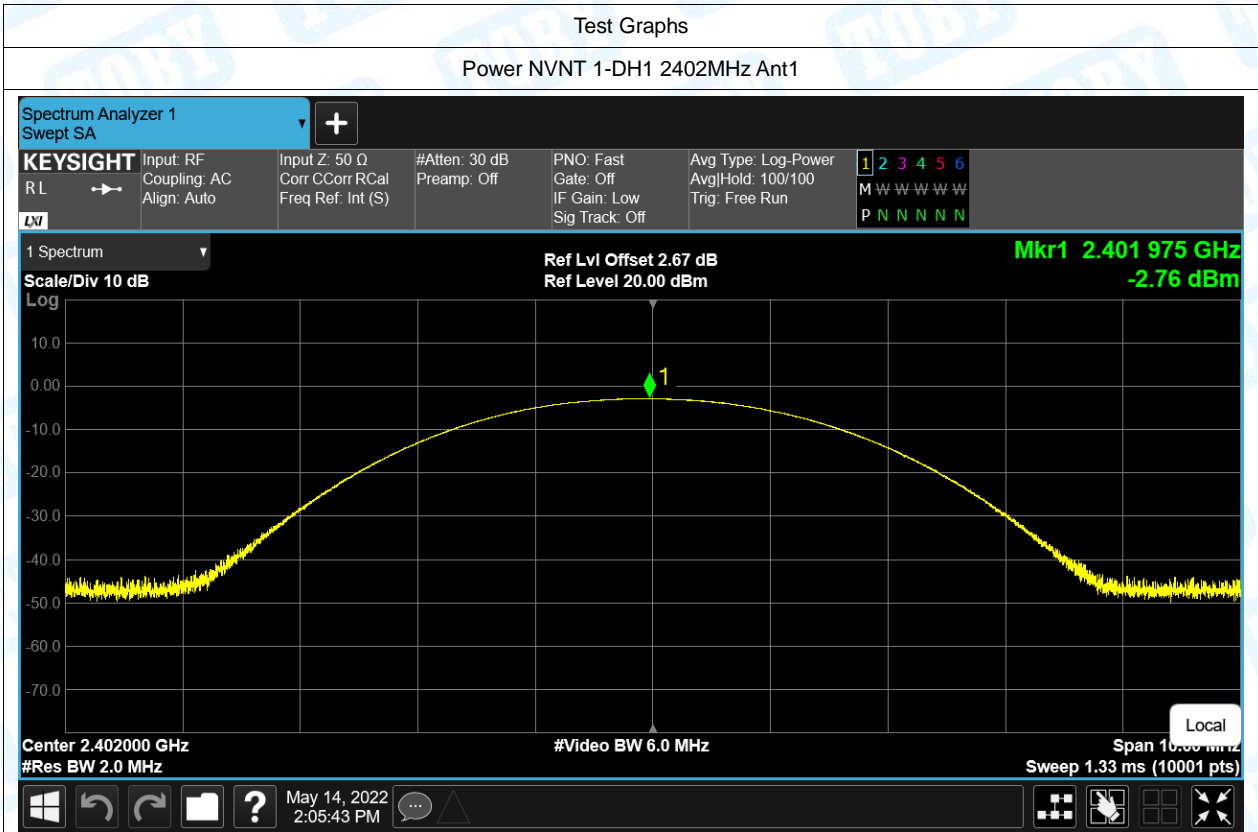
Duty Cycle NVNT 3-DH1 2441MHz Ant1

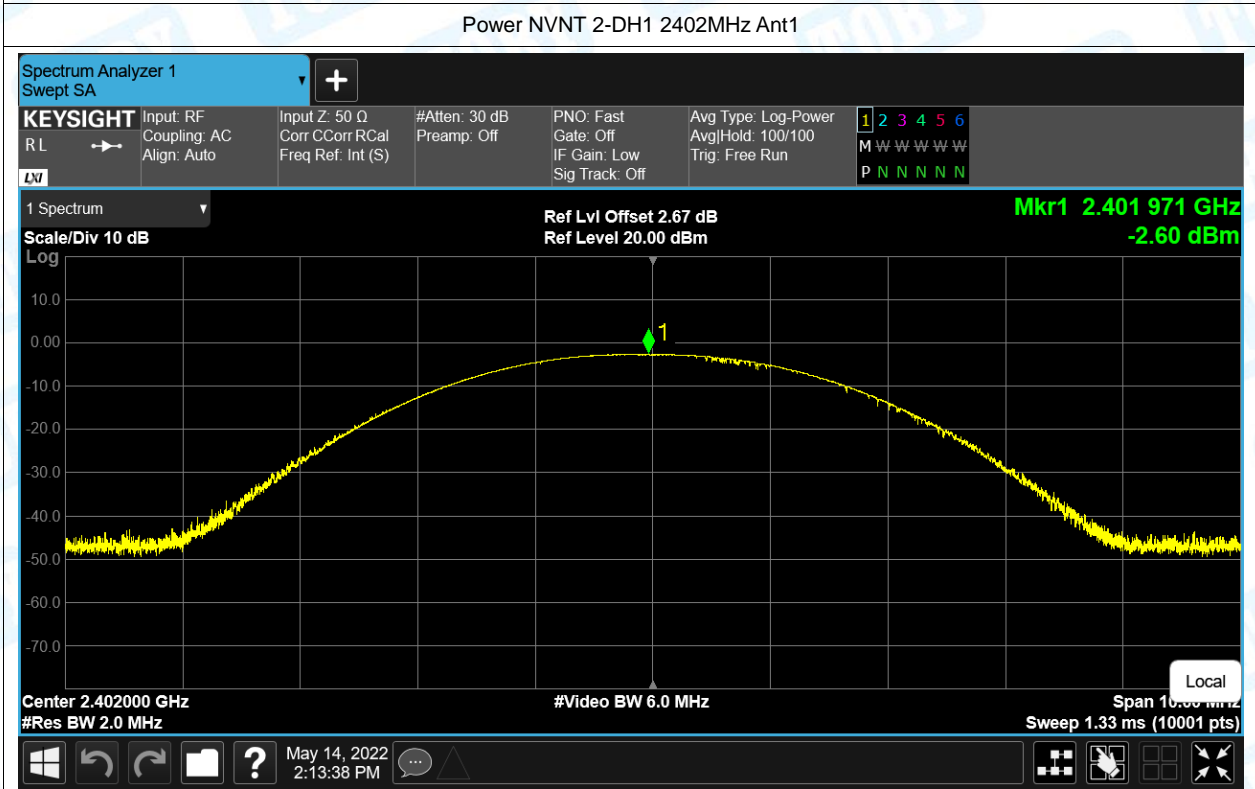


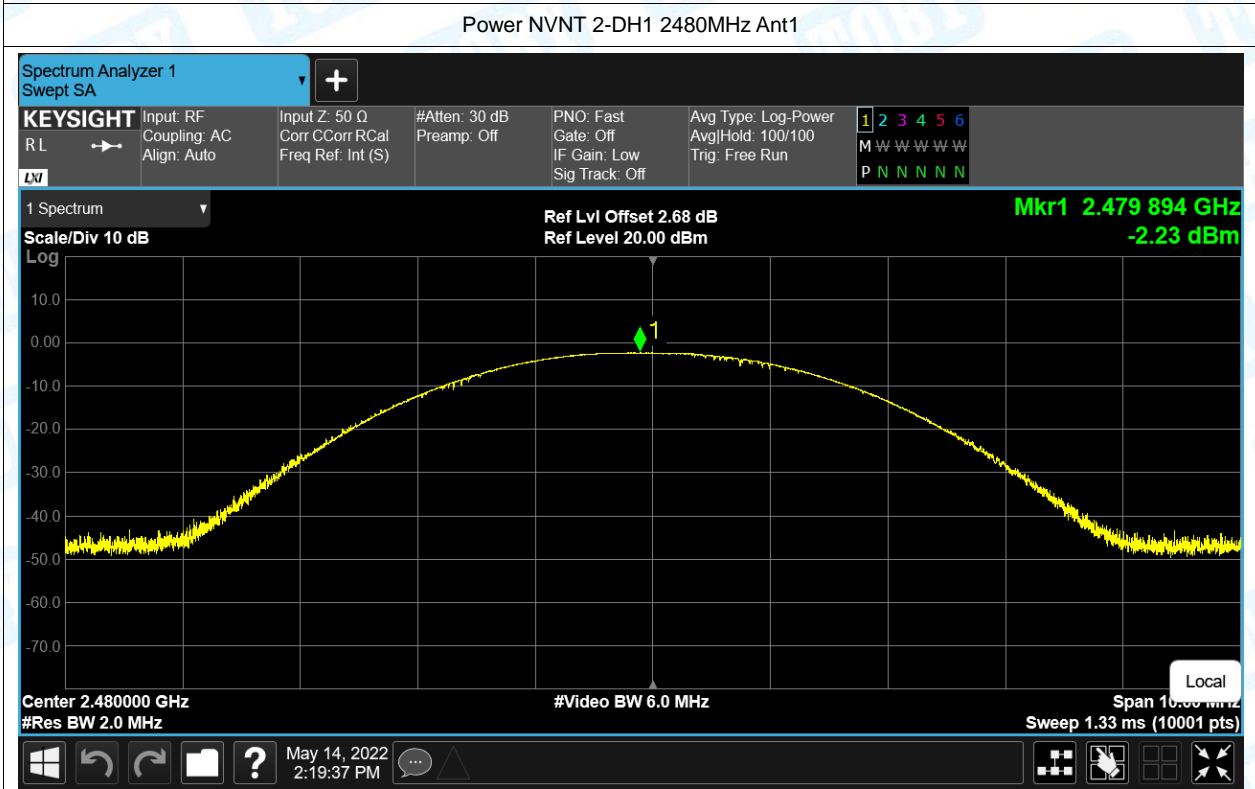


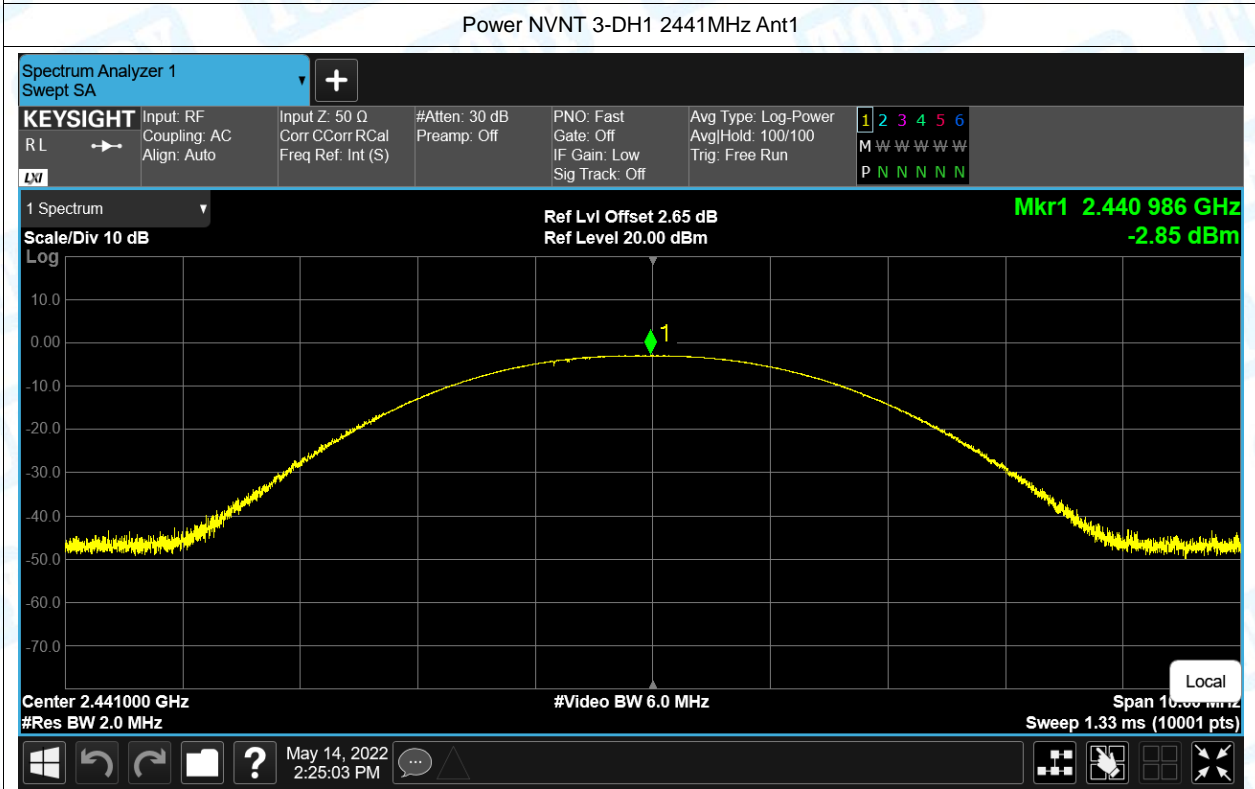
2. Maximum Conducted Output Power

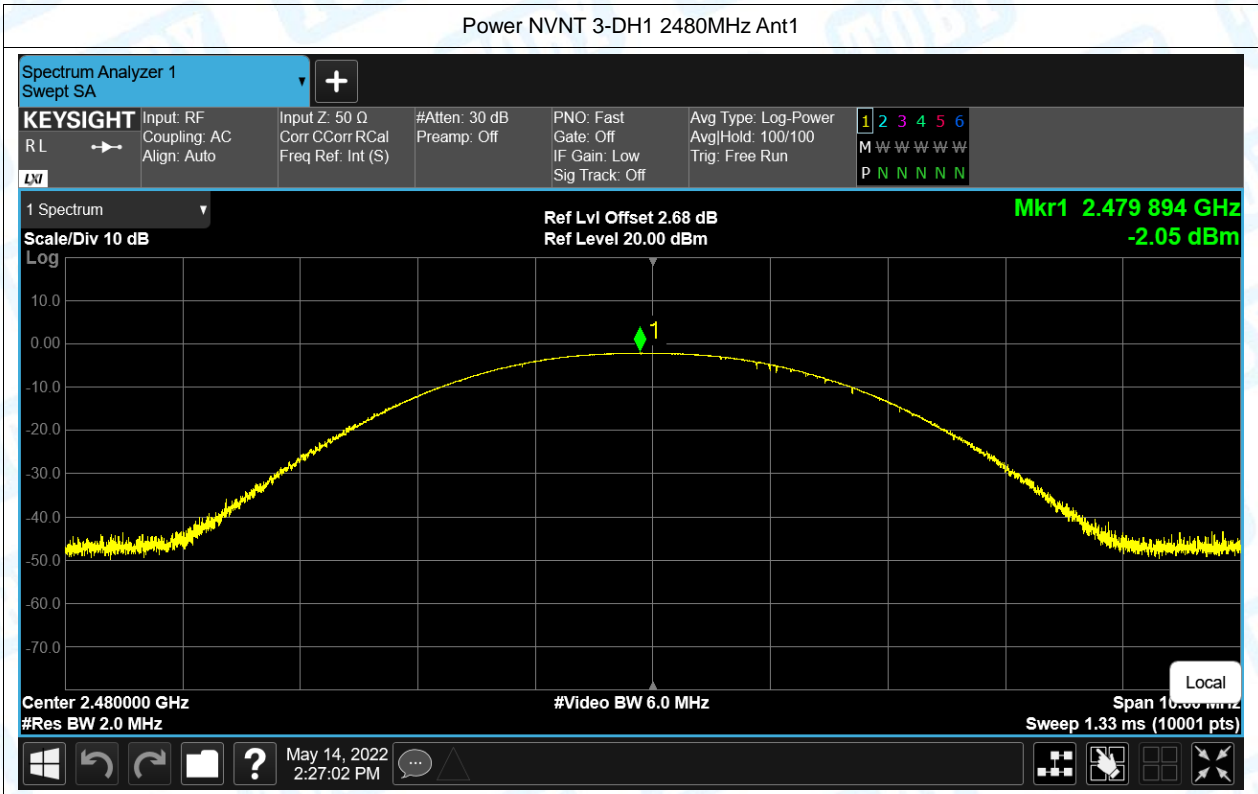
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	-2.76	21	Pass
NVNT	1-DH1	2441	Ant1	-2.94	21	Pass
NVNT	1-DH1	2480	Ant1	-2.07	21	Pass
NVNT	2-DH1	2402	Ant1	-2.60	21	Pass
NVNT	2-DH1	2441	Ant1	-2.78	21	Pass
NVNT	2-DH1	2480	Ant1	-2.23	21	Pass
NVNT	3-DH1	2402	Ant1	-2.75	21	Pass
NVNT	3-DH1	2441	Ant1	-2.85	21	Pass
NVNT	3-DH1	2480	Ant1	-2.05	21	Pass









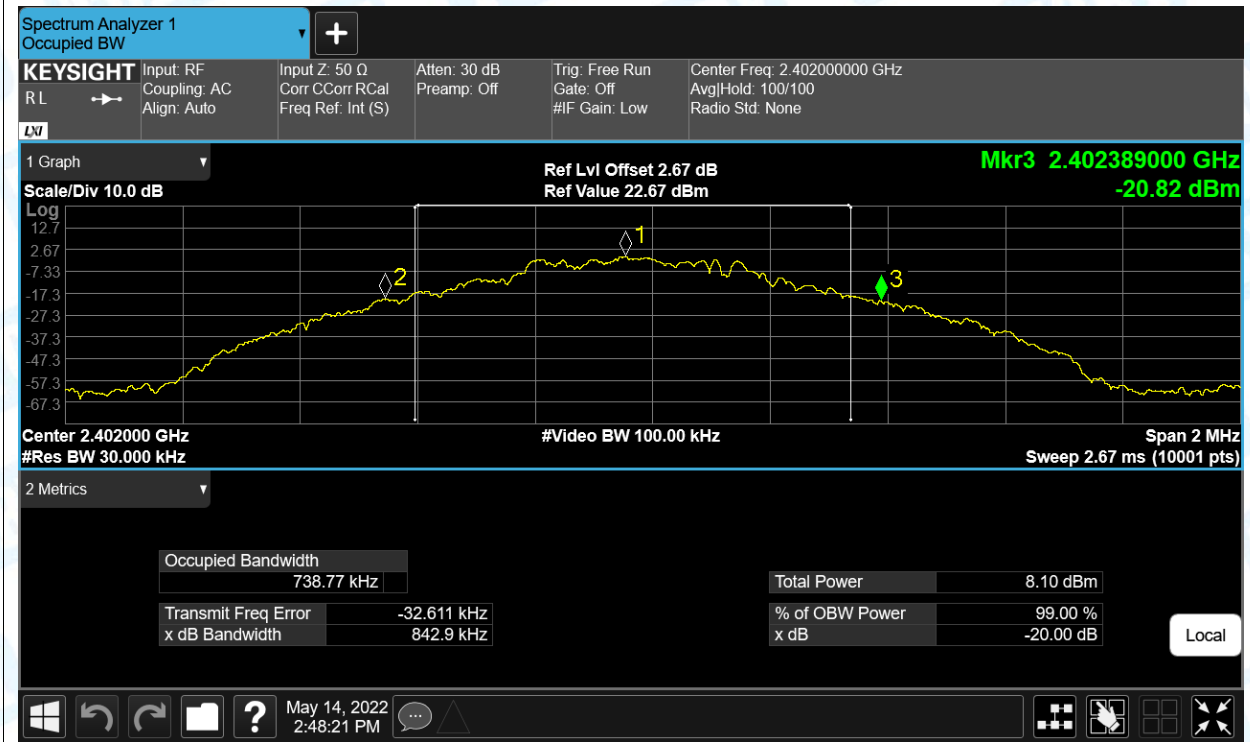


3. -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.84	----	Pass
NVNT	1-DH1	2441	Ant1	0.77	----	Pass
NVNT	1-DH1	2480	Ant1	0.82	----	Pass
NVNT	2-DH1	2402	Ant1	1.19	----	Pass
NVNT	2-DH1	2441	Ant1	1.2	----	Pass
NVNT	2-DH1	2480	Ant1	1.25	----	Pass
NVNT	3-DH1	2402	Ant1	1.22	----	Pass
NVNT	3-DH1	2441	Ant1	1.22	----	Pass
NVNT	3-DH1	2480	Ant1	1.21	----	Pass

Test Graphs

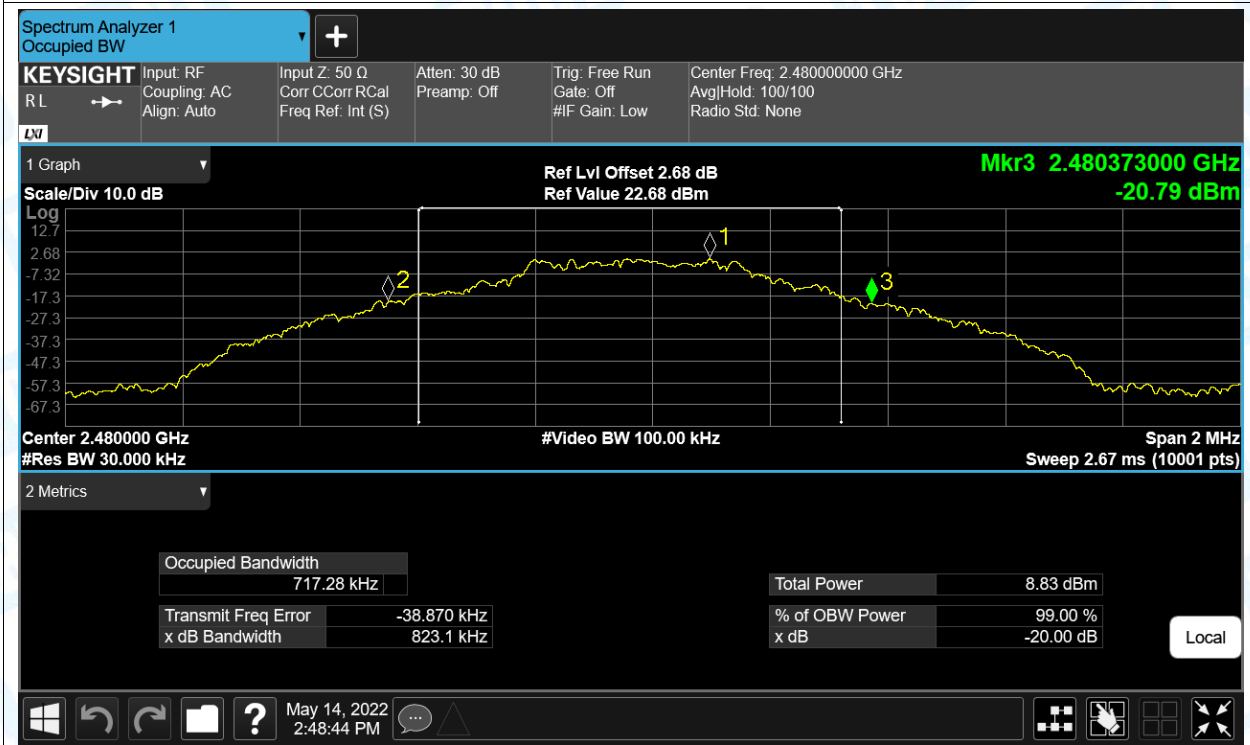
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



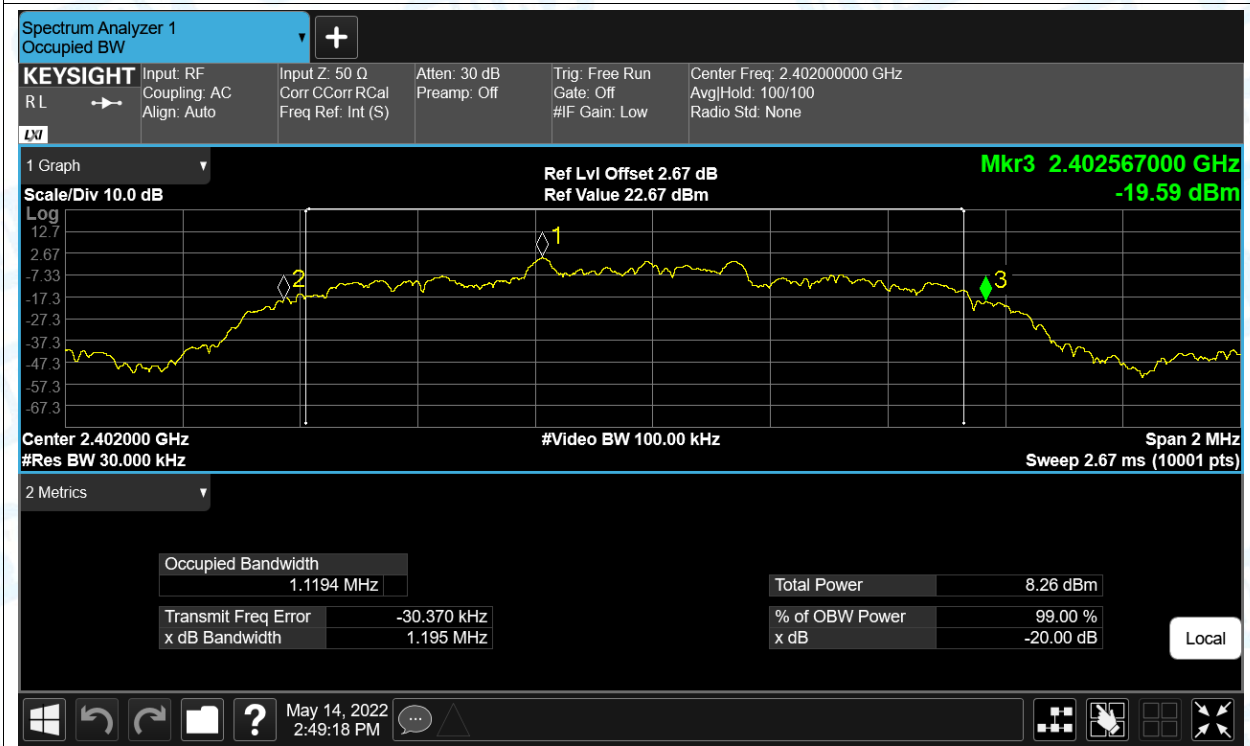
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



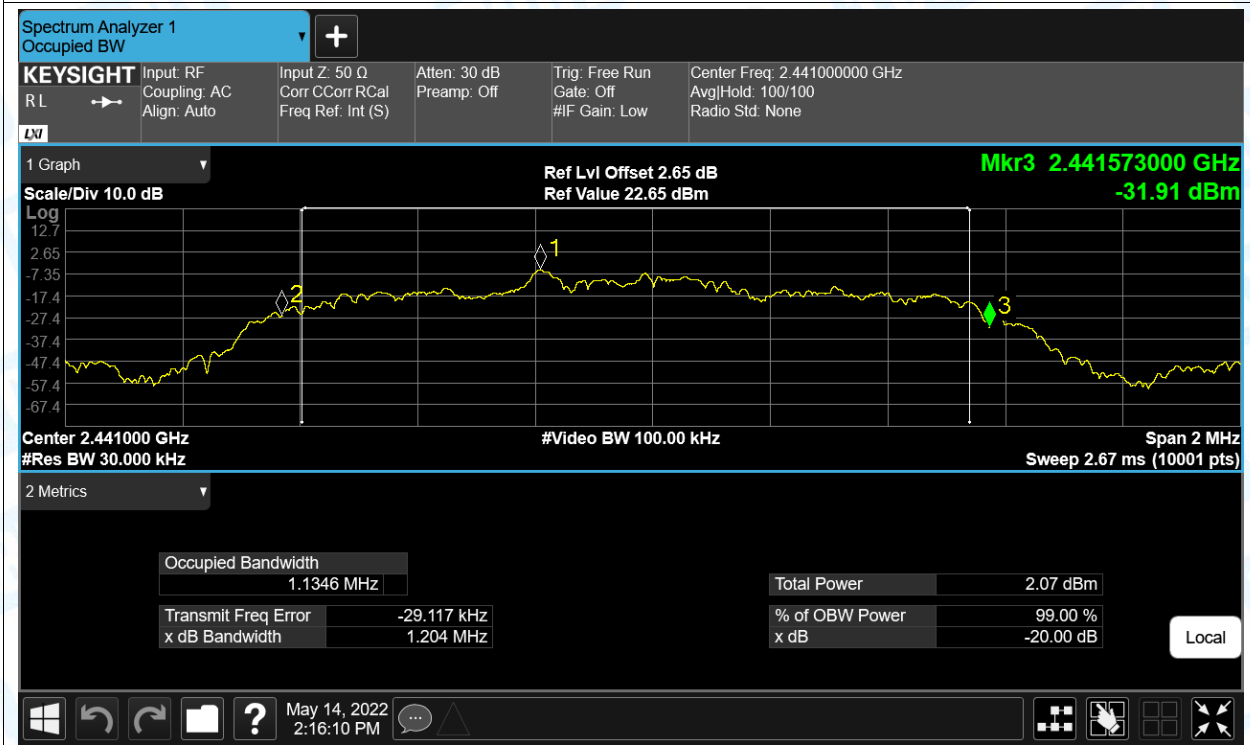
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



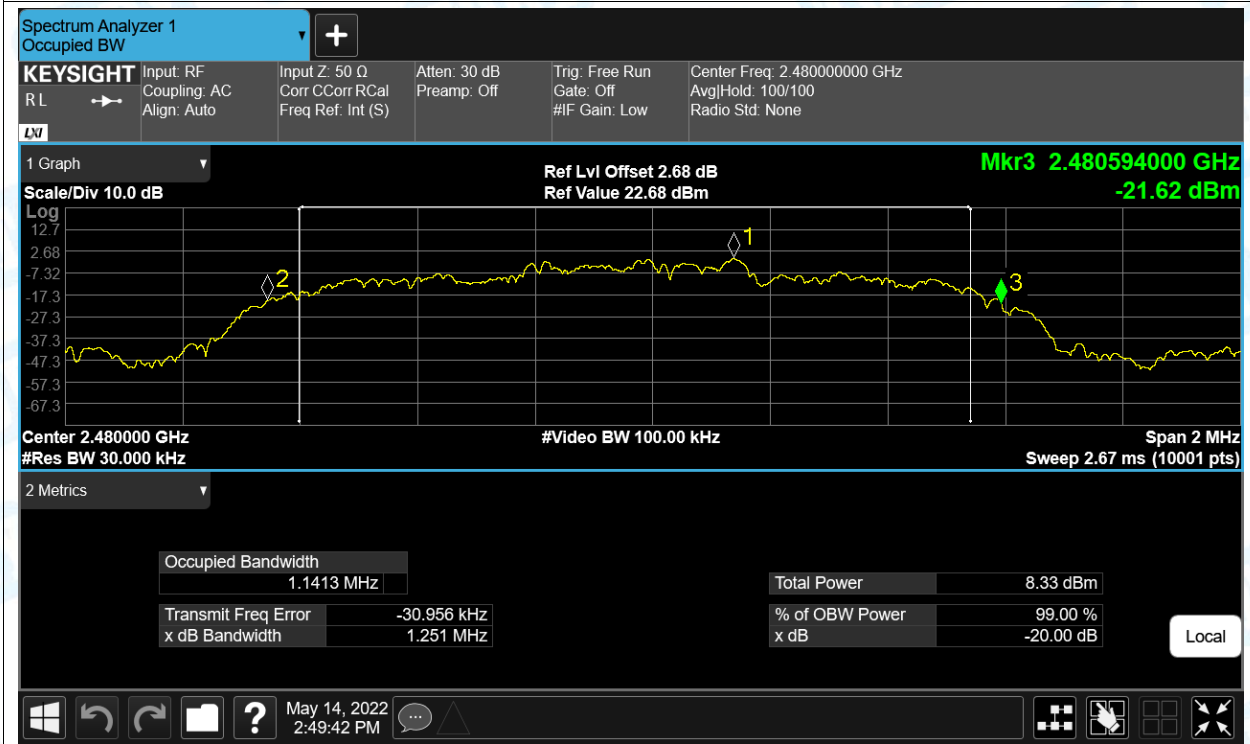
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



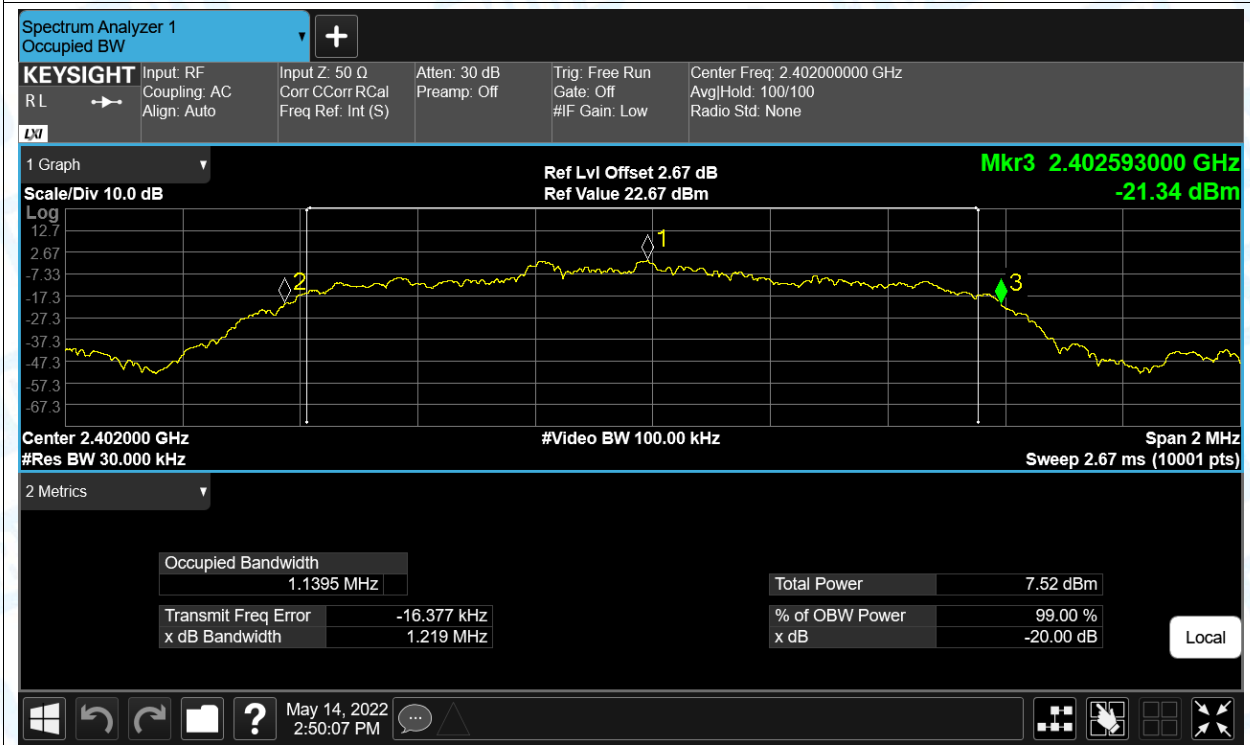
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



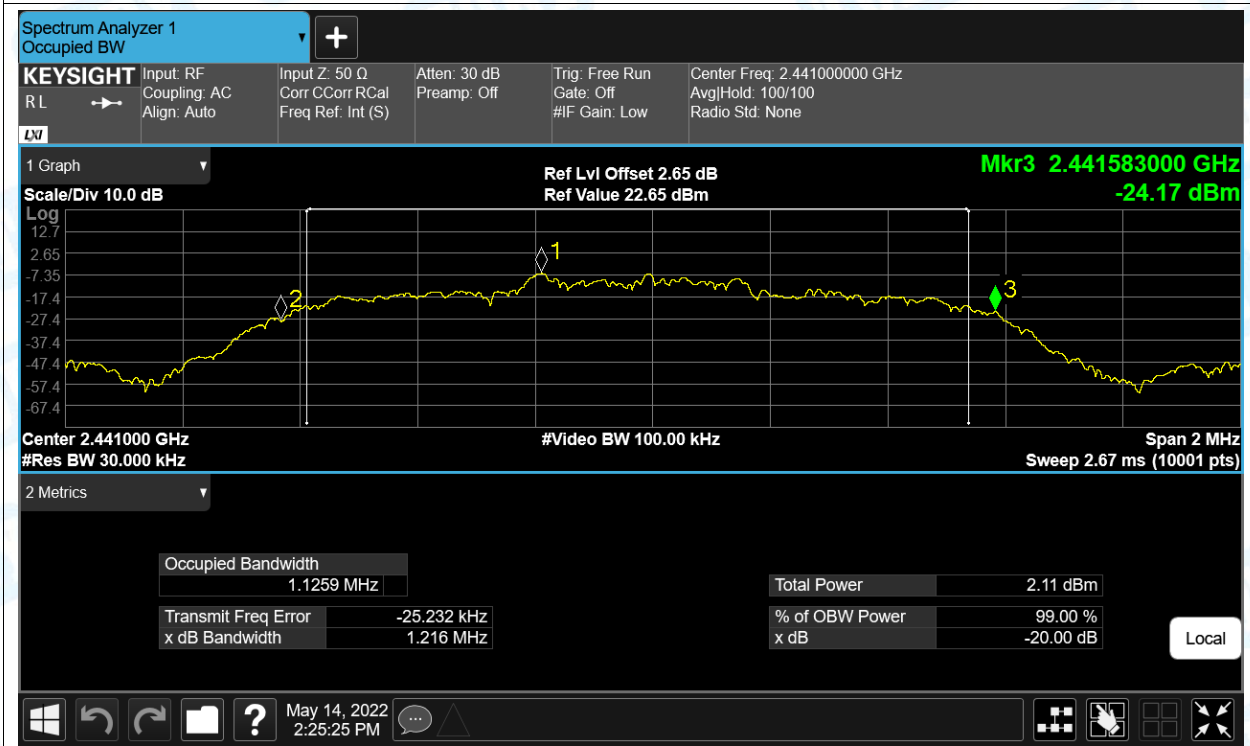
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

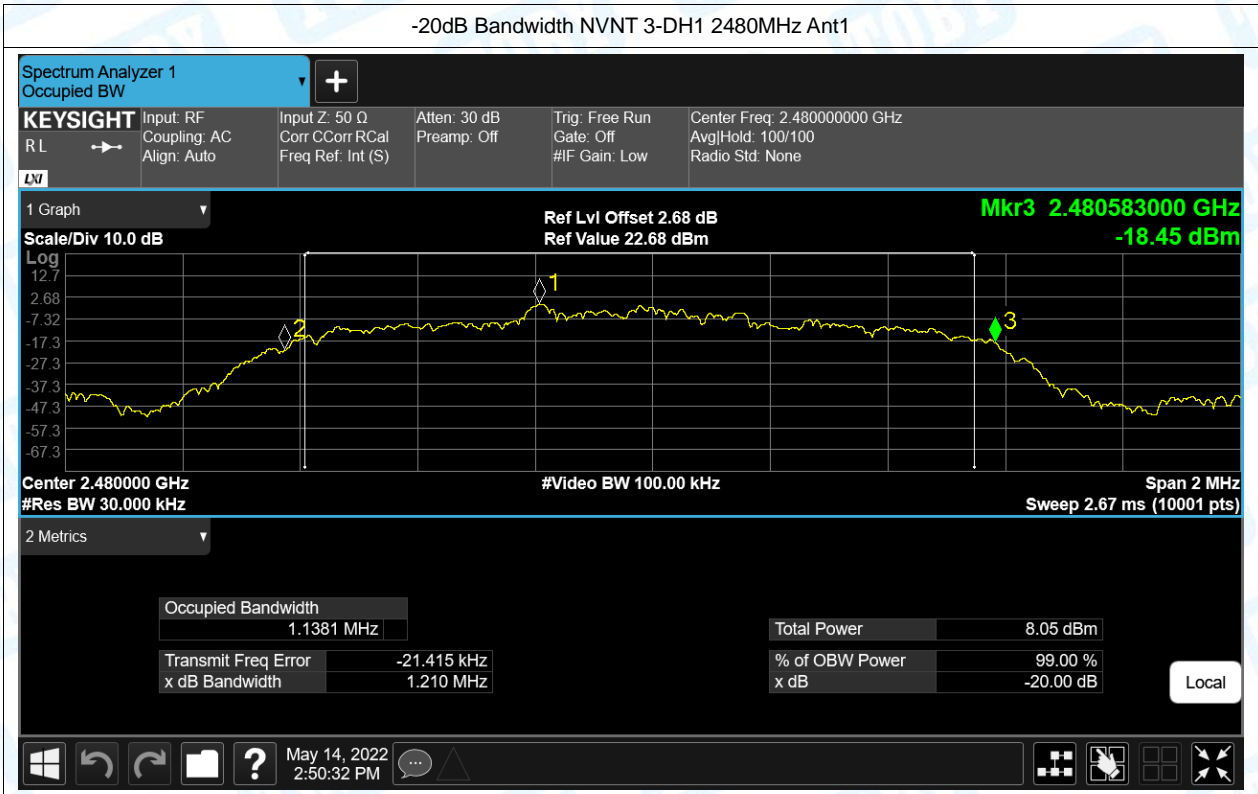


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1





4. Occupied Channel Bandwidth

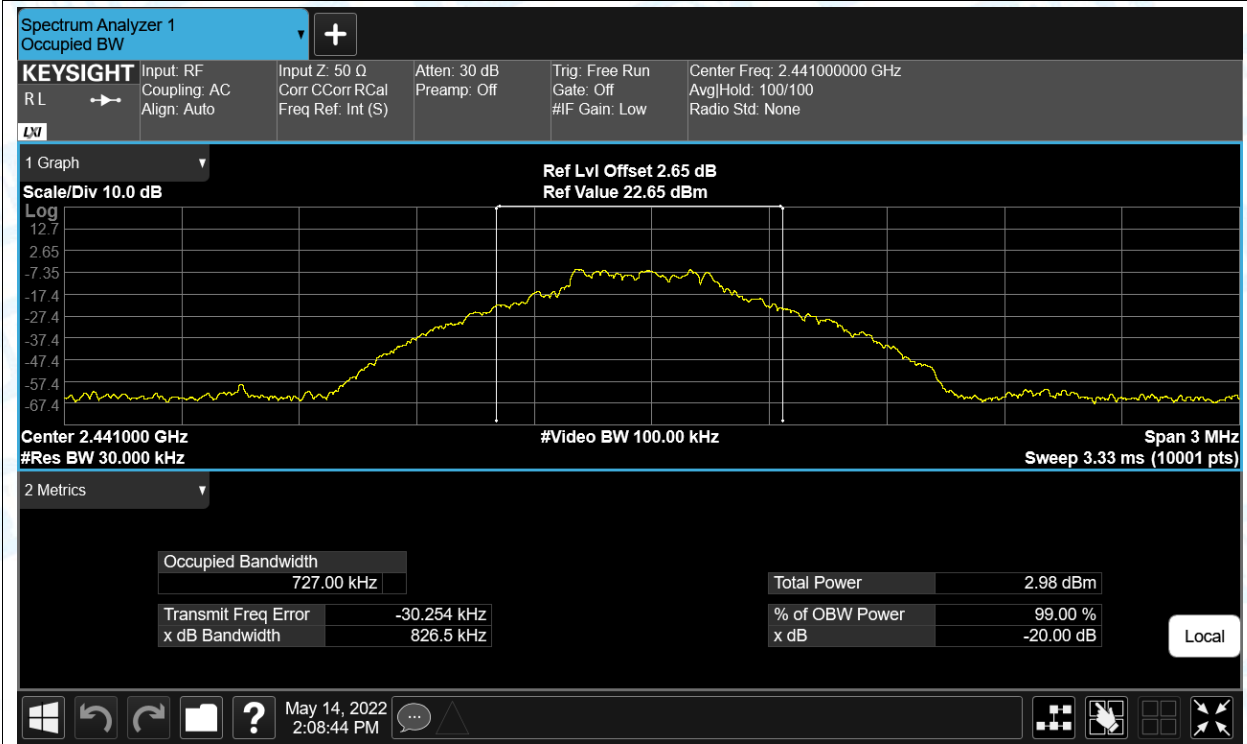
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.726
NVNT	1-DH1	2441	Ant1	0.727
NVNT	1-DH1	2480	Ant1	0.718
NVNT	2-DH1	2402	Ant1	1.148
NVNT	2-DH1	2441	Ant1	1.135
NVNT	2-DH1	2480	Ant1	1.117
NVNT	3-DH1	2402	Ant1	1.129
NVNT	3-DH1	2441	Ant1	1.125
NVNT	3-DH1	2480	Ant1	1.125

Test Graphs

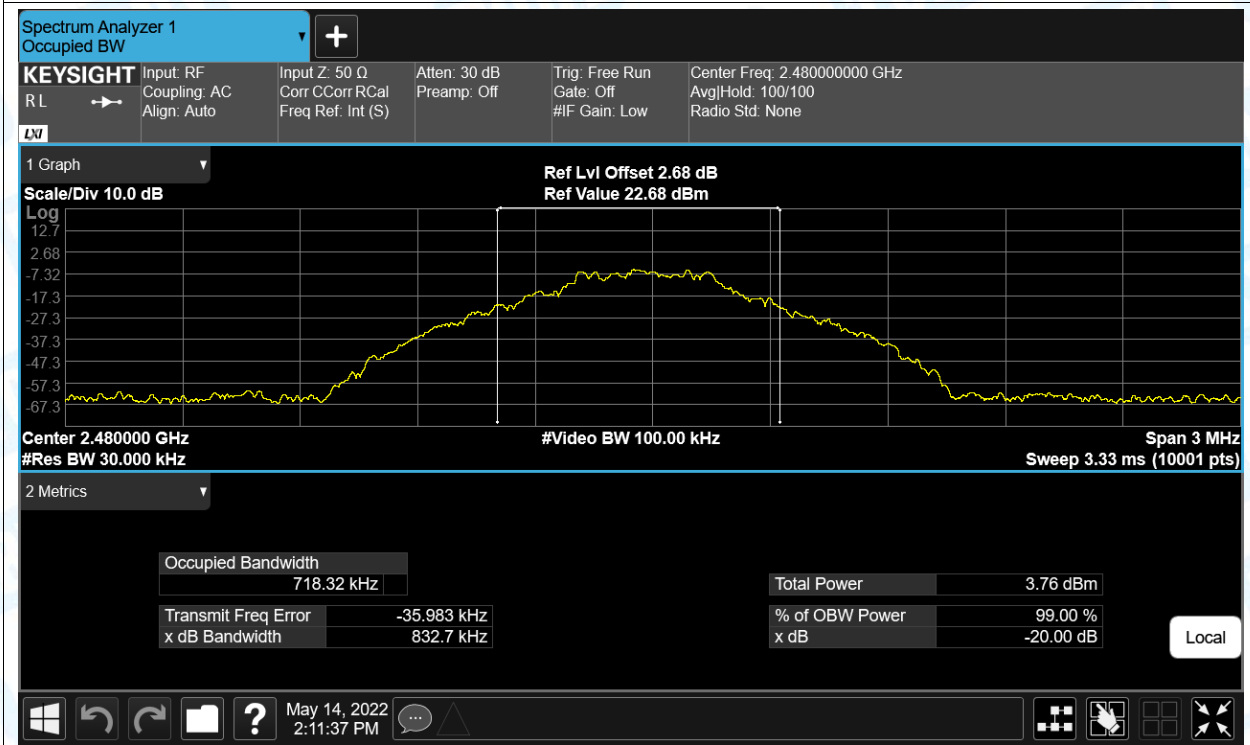
OBW NVNT 1-DH1 2402MHz Ant1



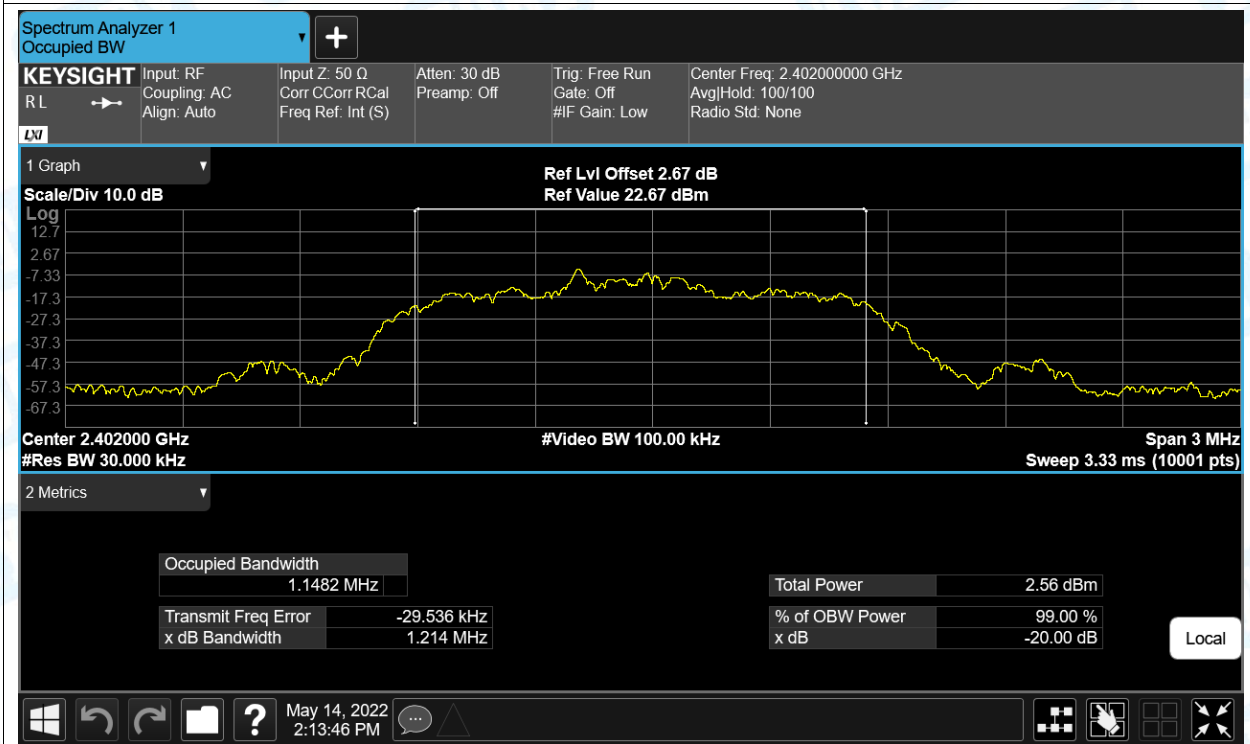
OBW NVNT 1-DH1 2441MHz Ant1

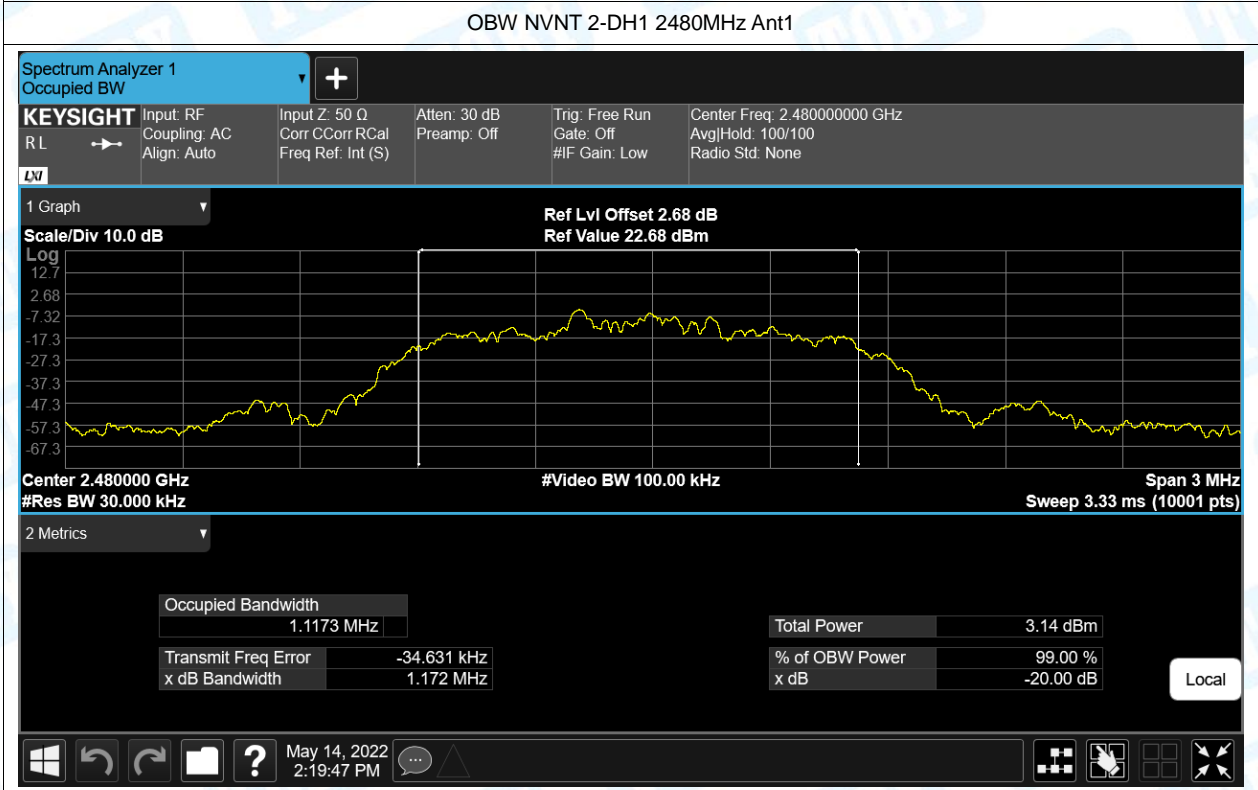


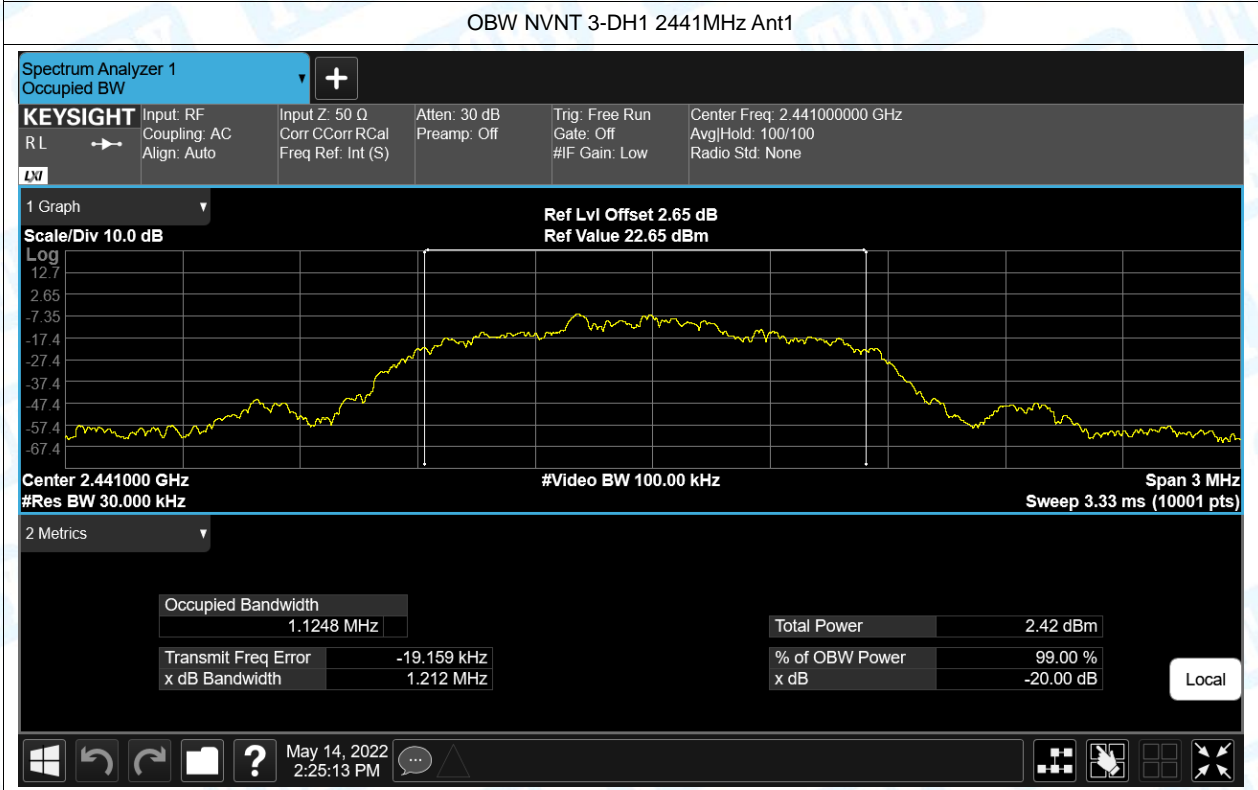
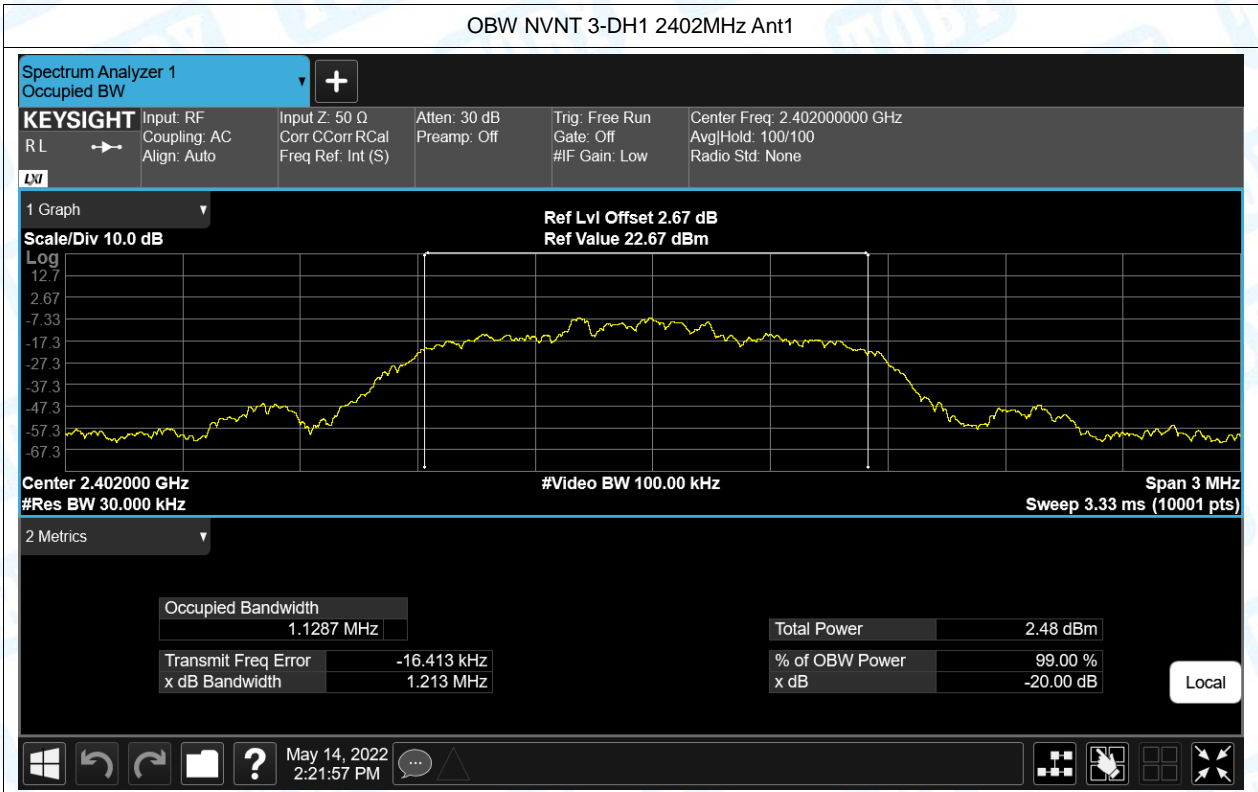
OBW NVNT 1-DH1 2480MHz Ant1

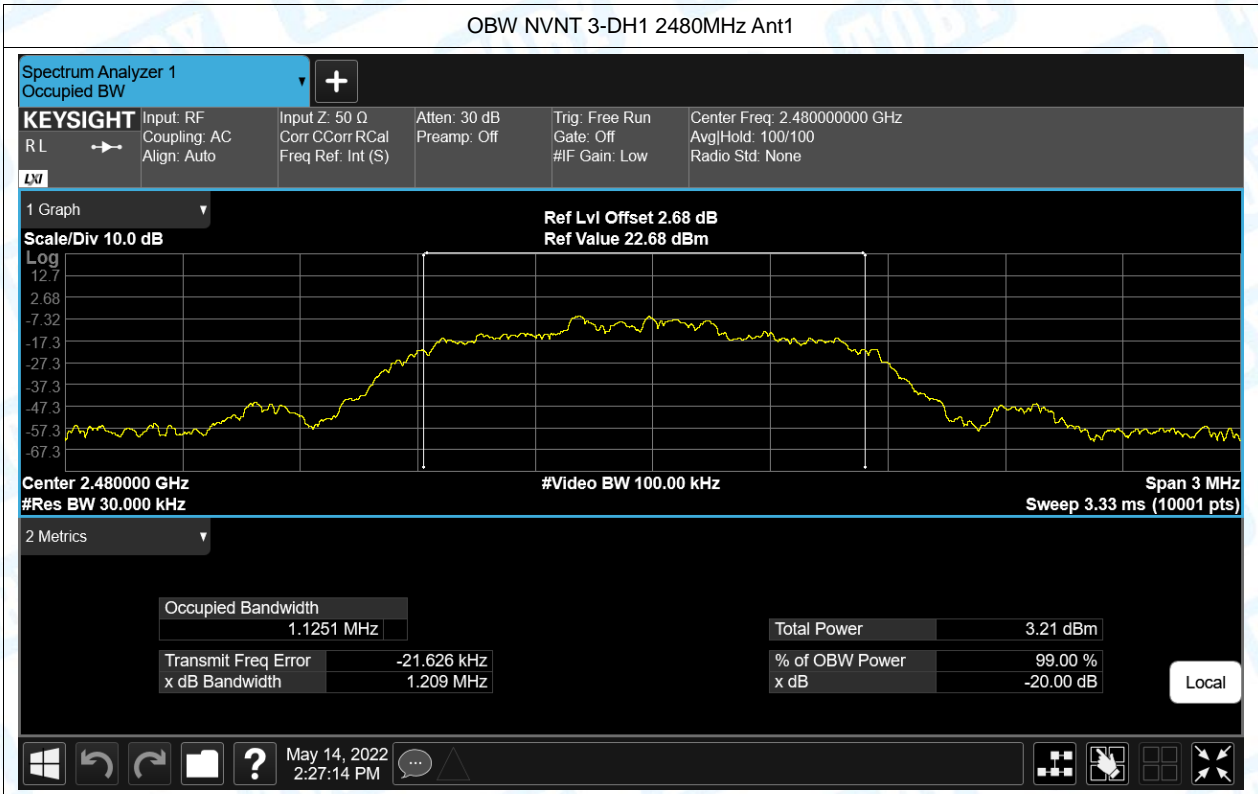


OBW NVNT 2-DH1 2402MHz Ant1







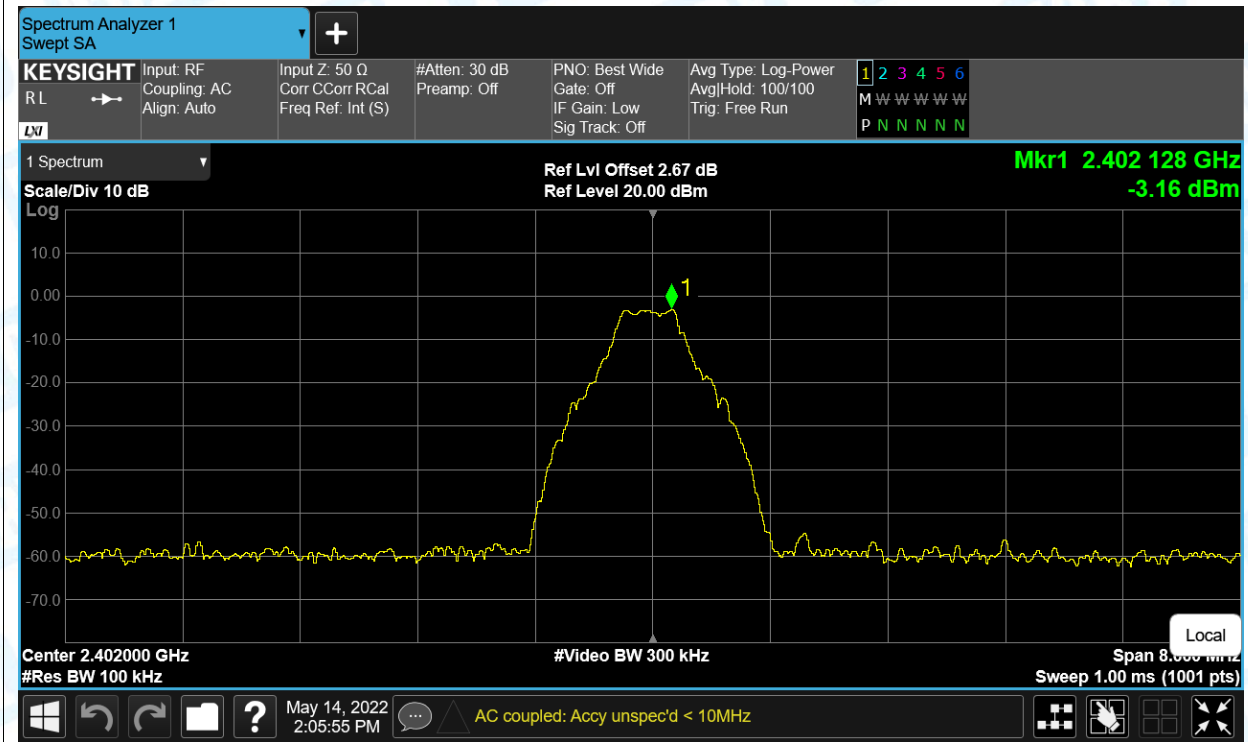


5. Band Edge

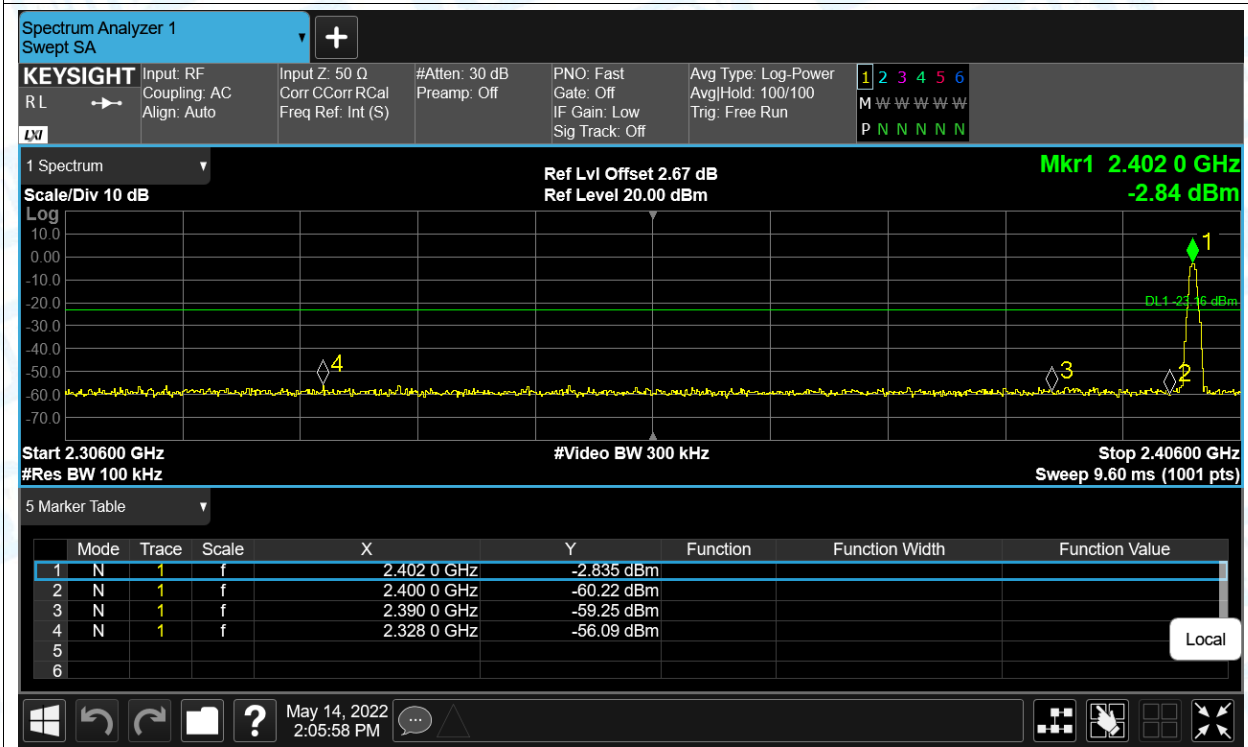
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-52.93	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-53.78	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-52.68	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-53.58	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-53.06	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-52.91	-20	Pass

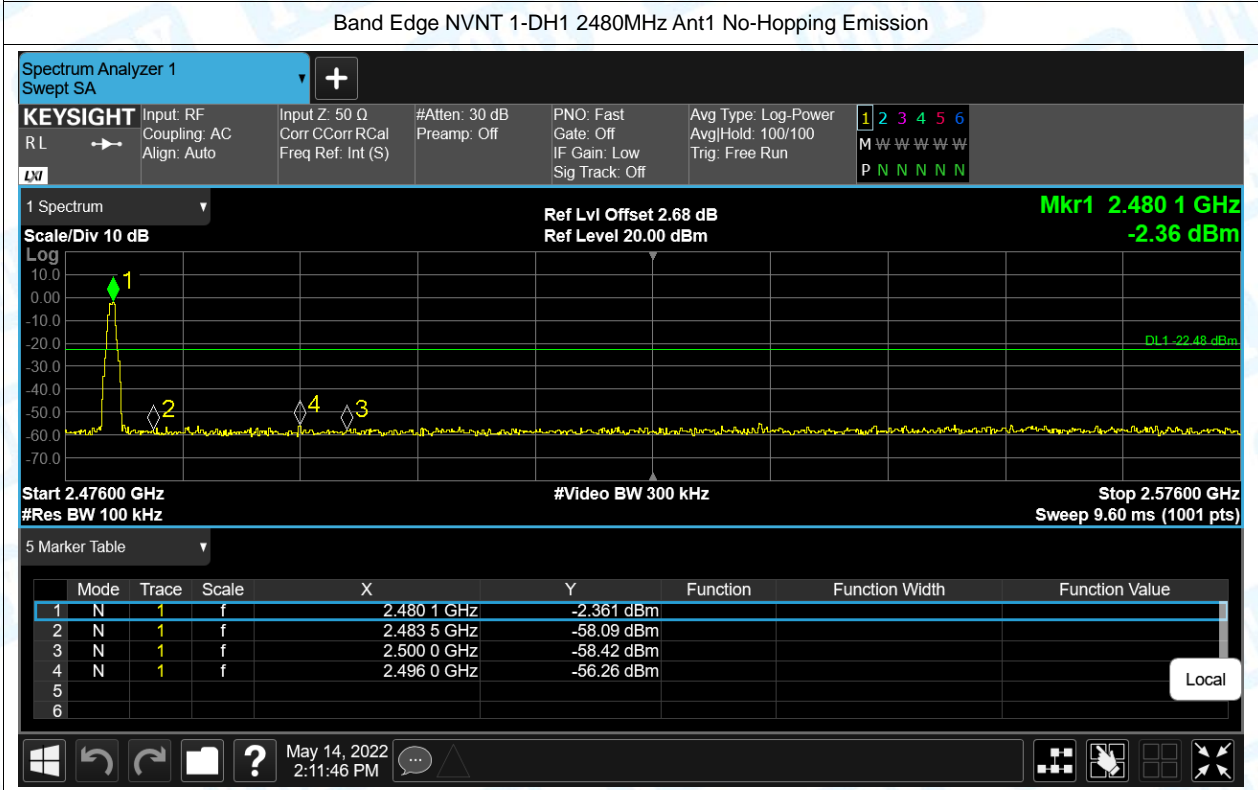
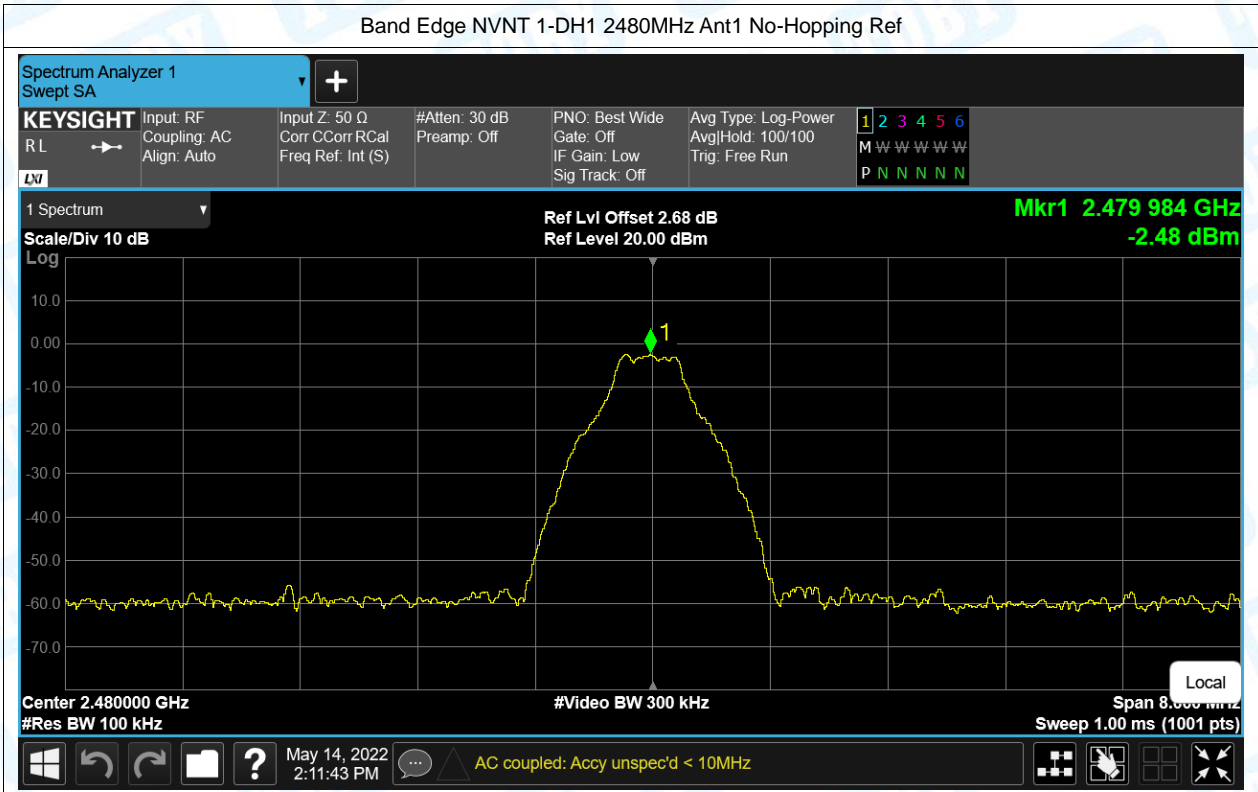
Test Graphs

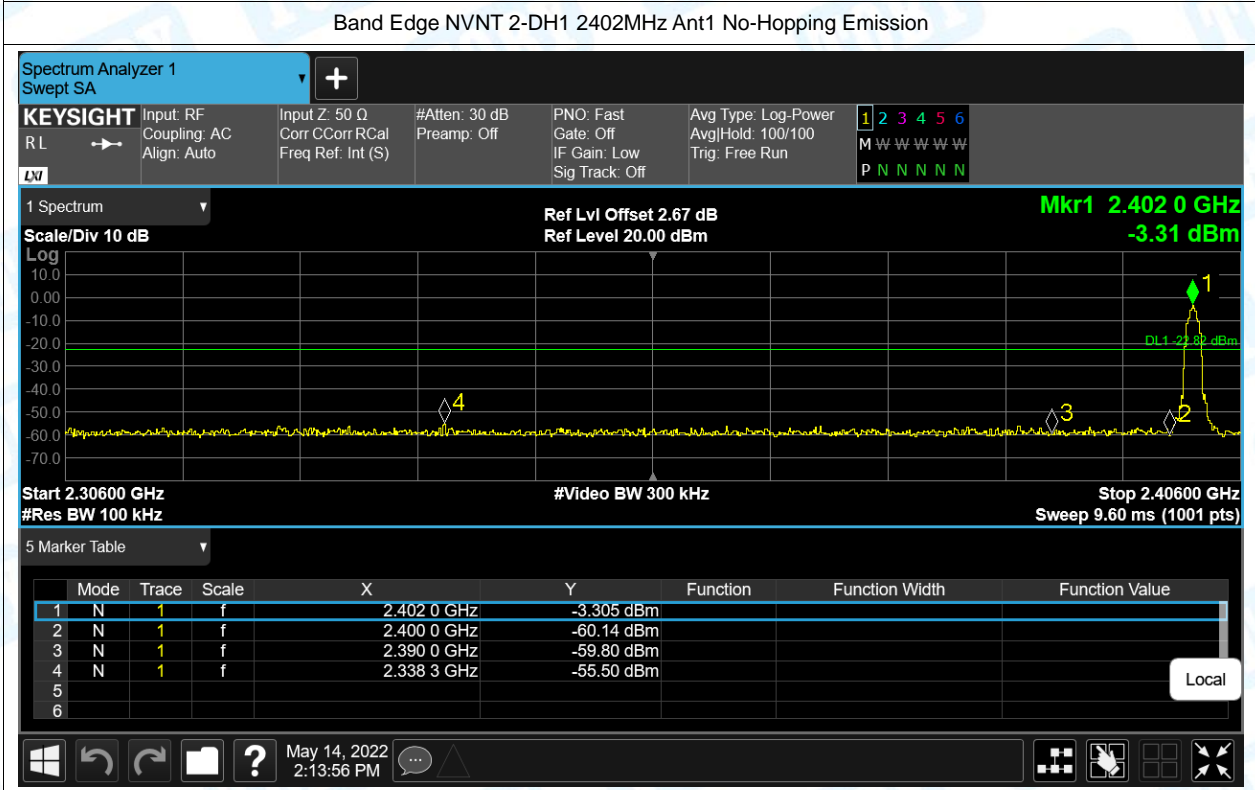
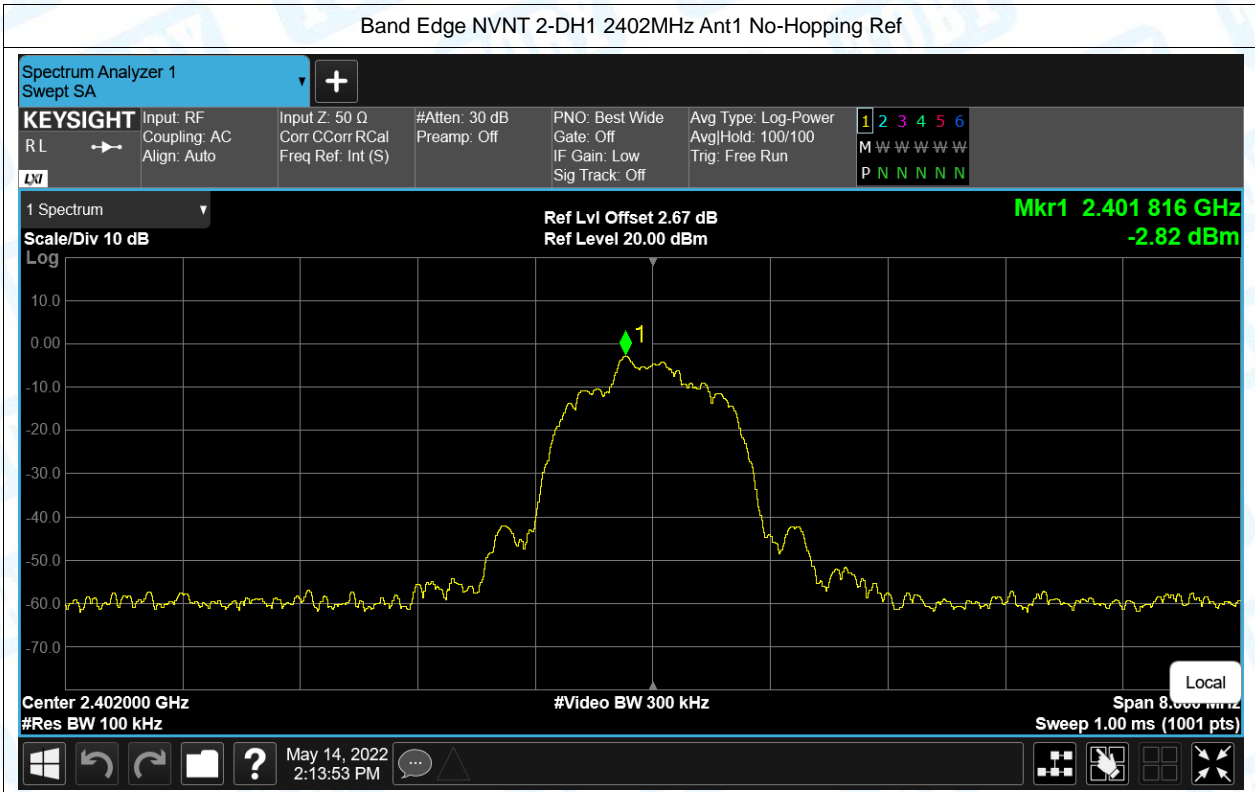
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref

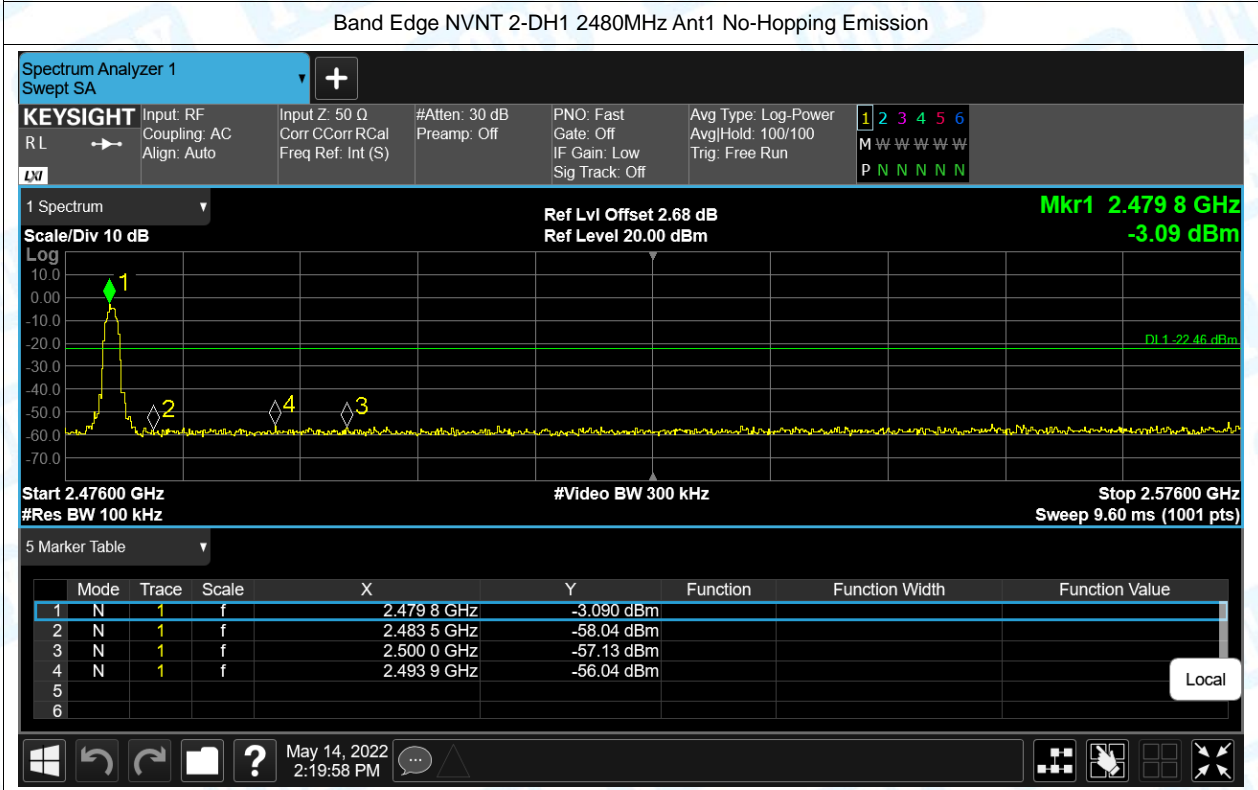
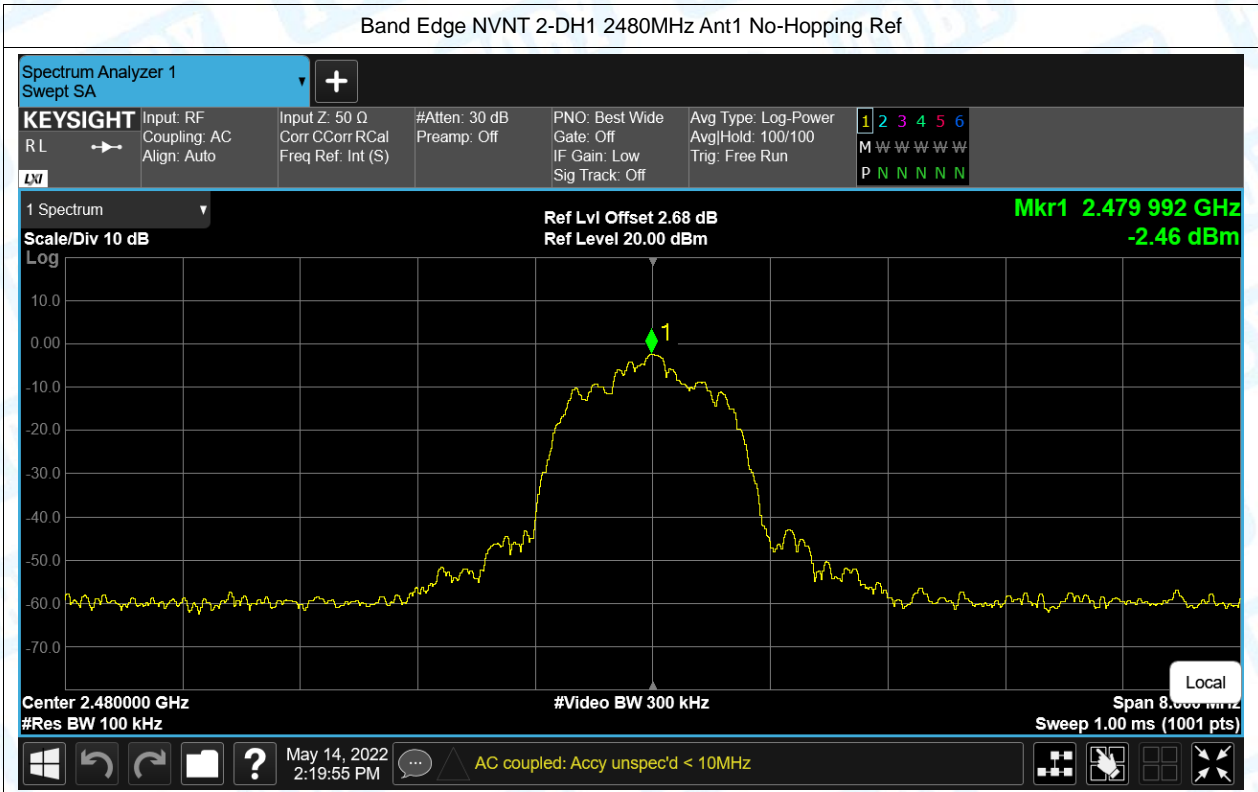


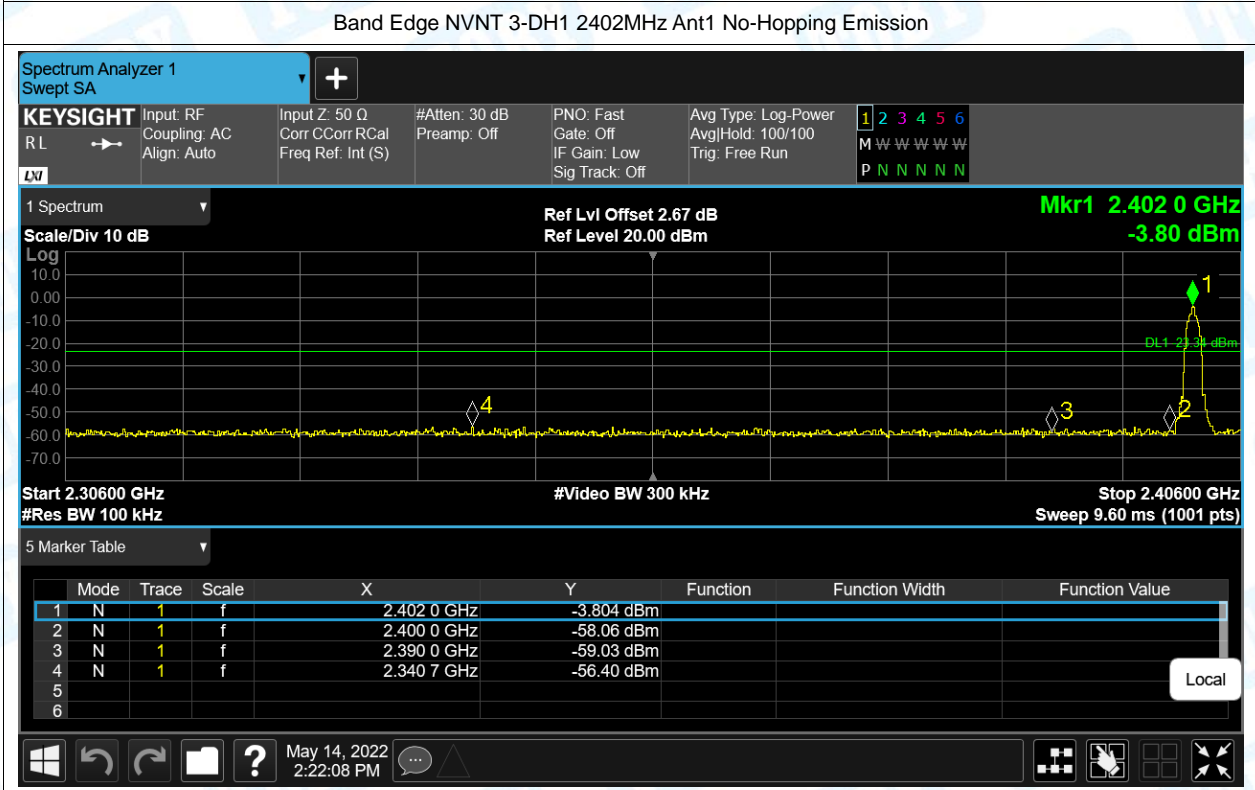
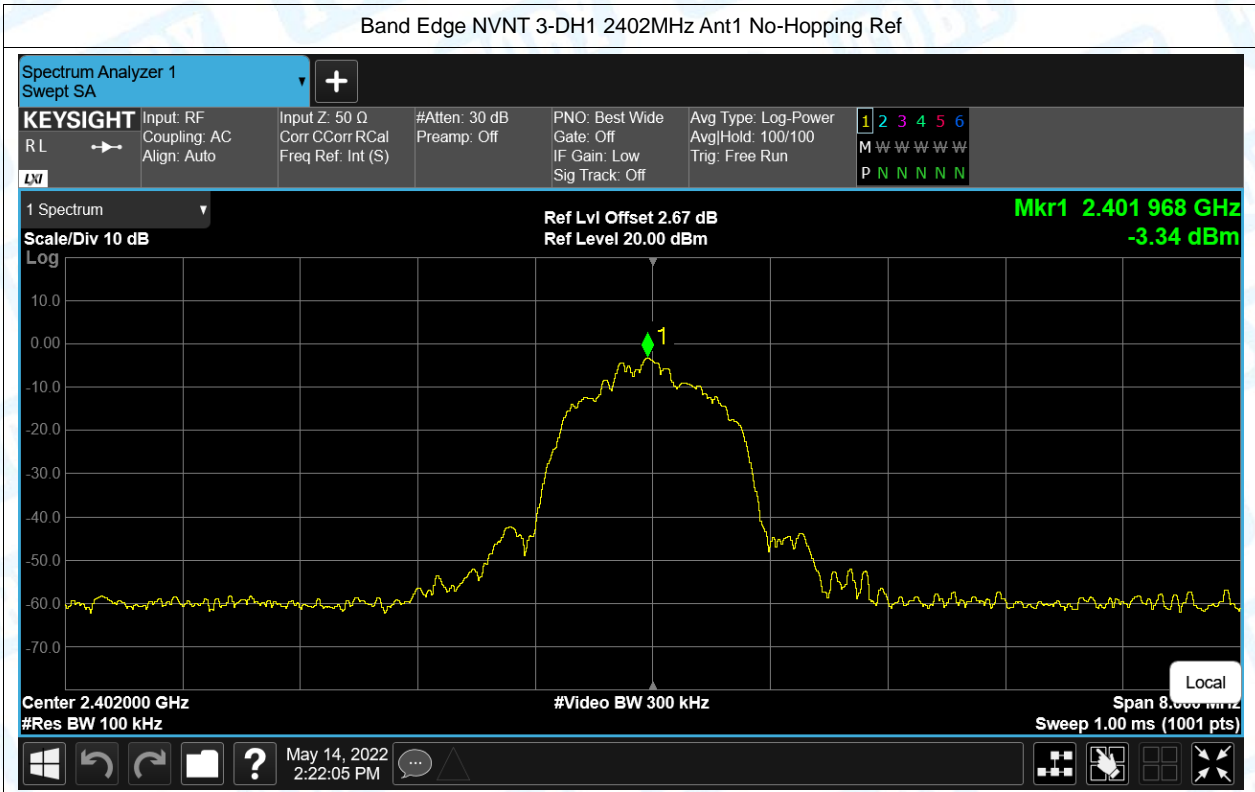
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission

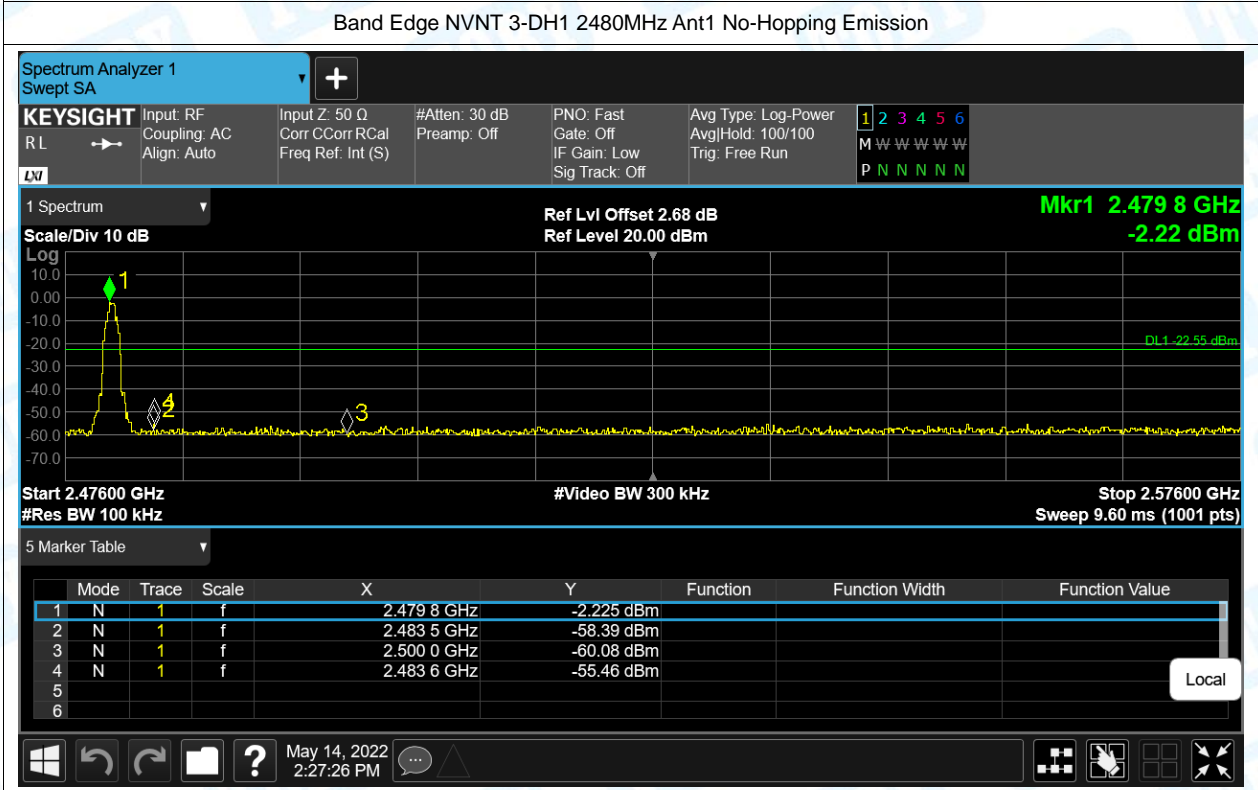
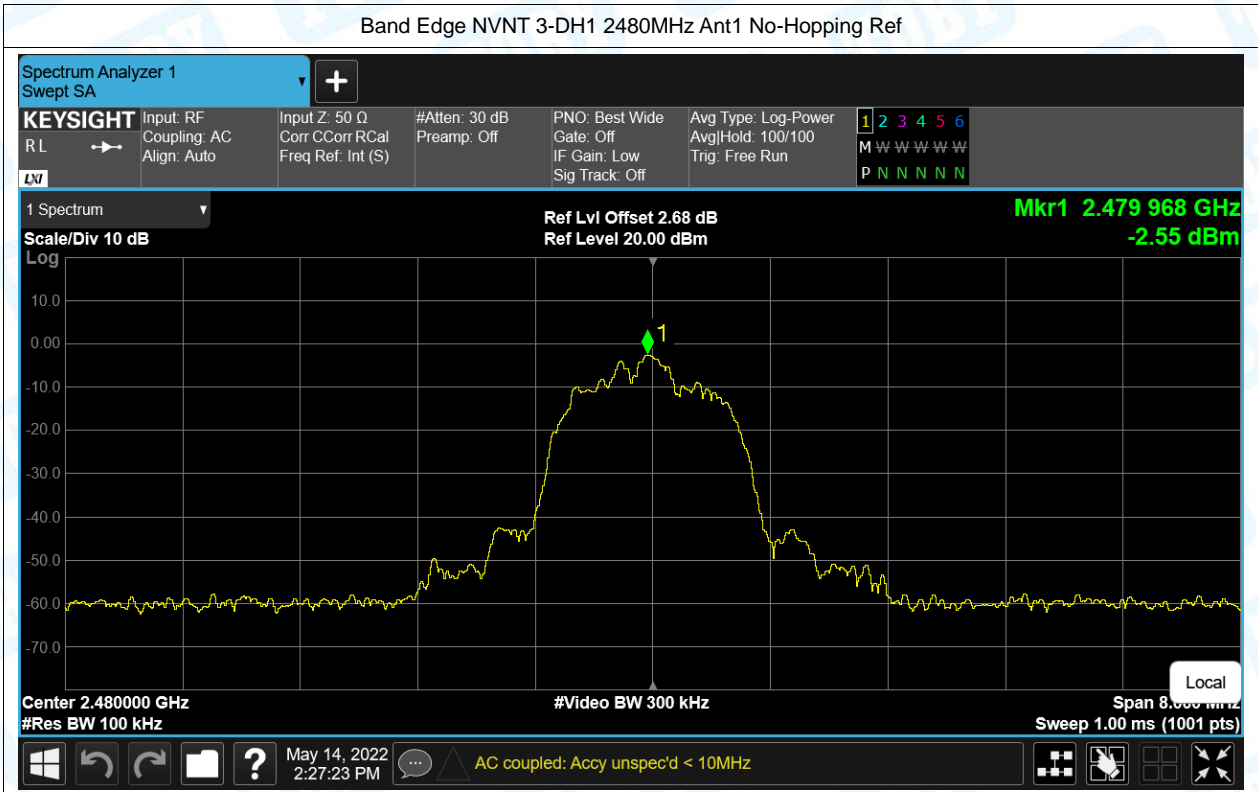










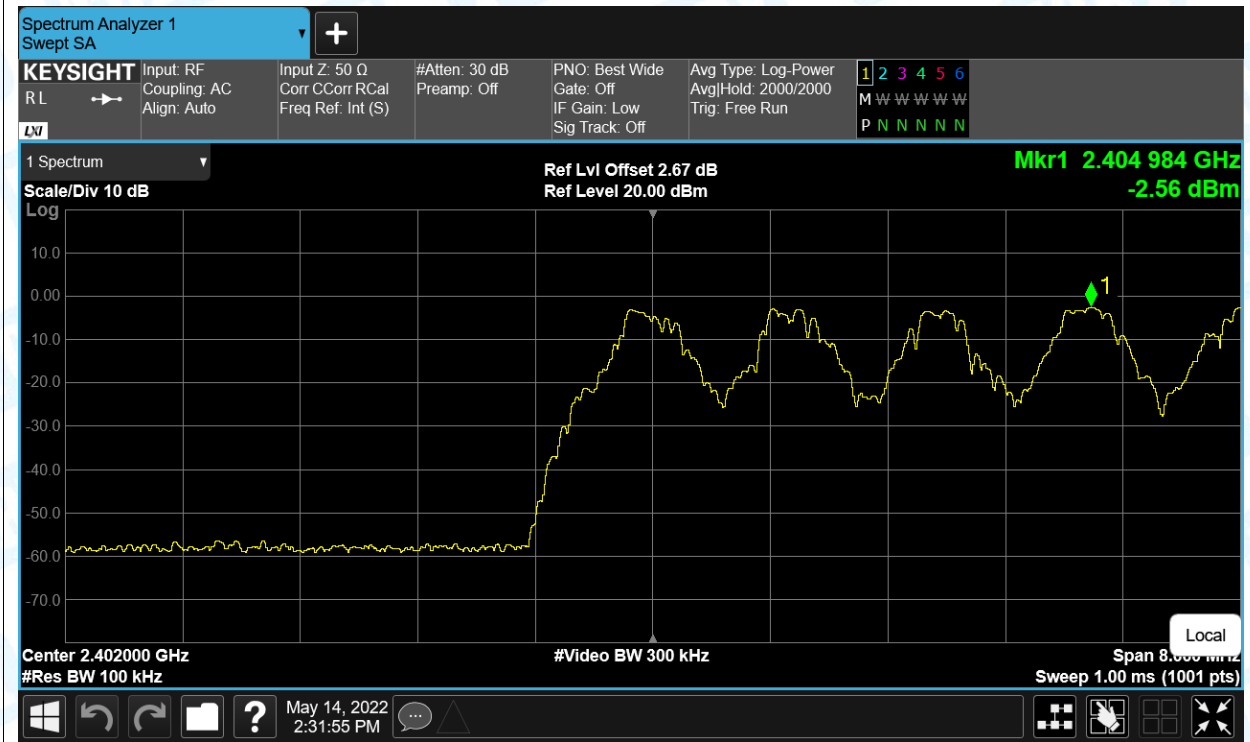


6. Band Edge(Hopping)

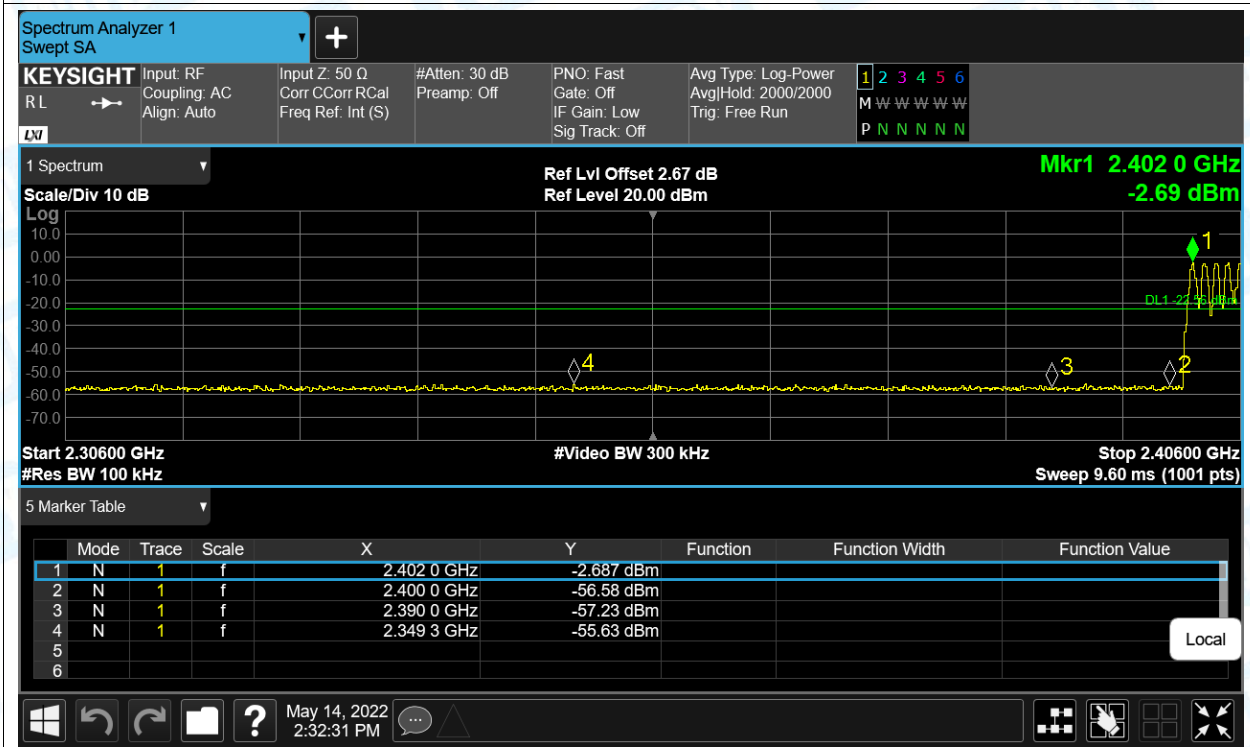
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-53.07	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-53.28	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-52.24	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-53.6	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-51.07	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-51.65	-20	Pass

Test Graphs

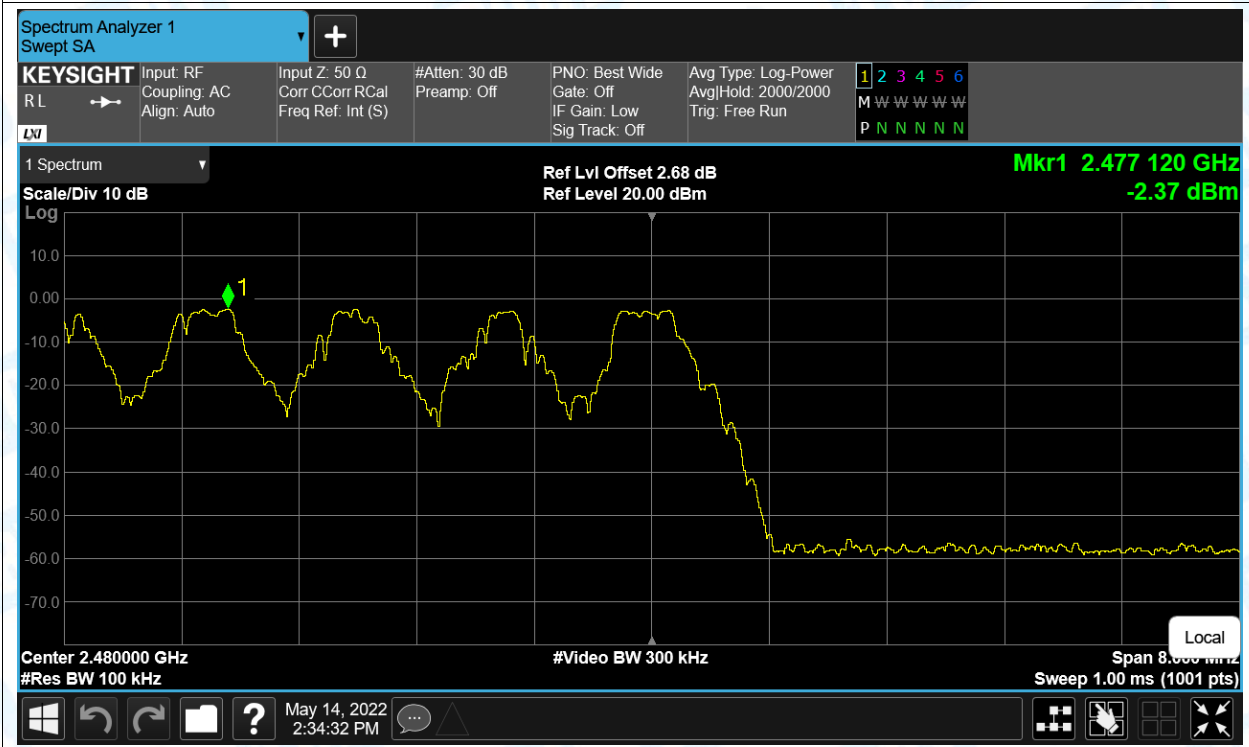
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Ref



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

