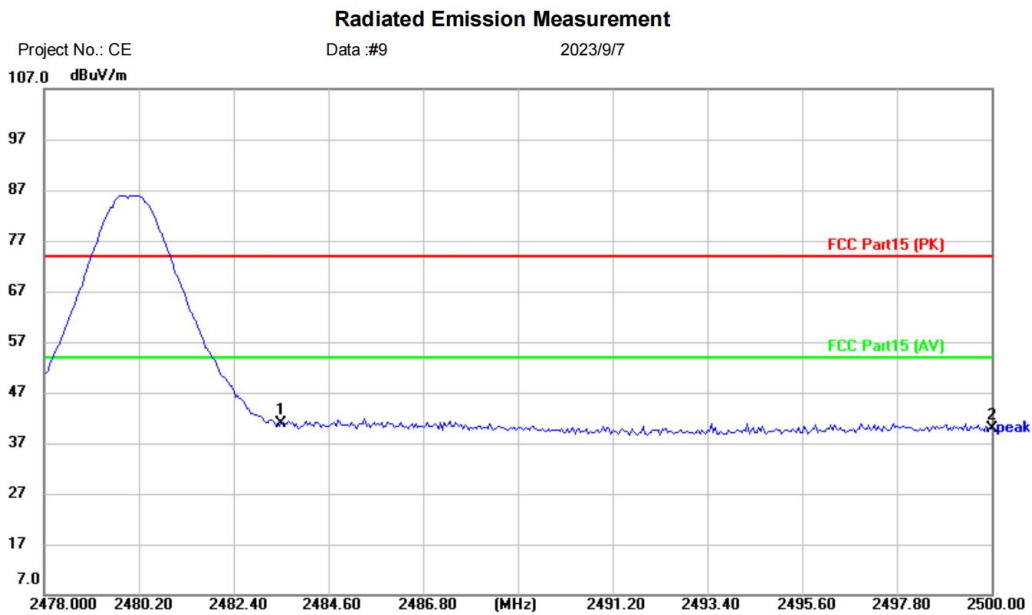


[TestMode: TX highest channel]; [Polarity: Horizontal]



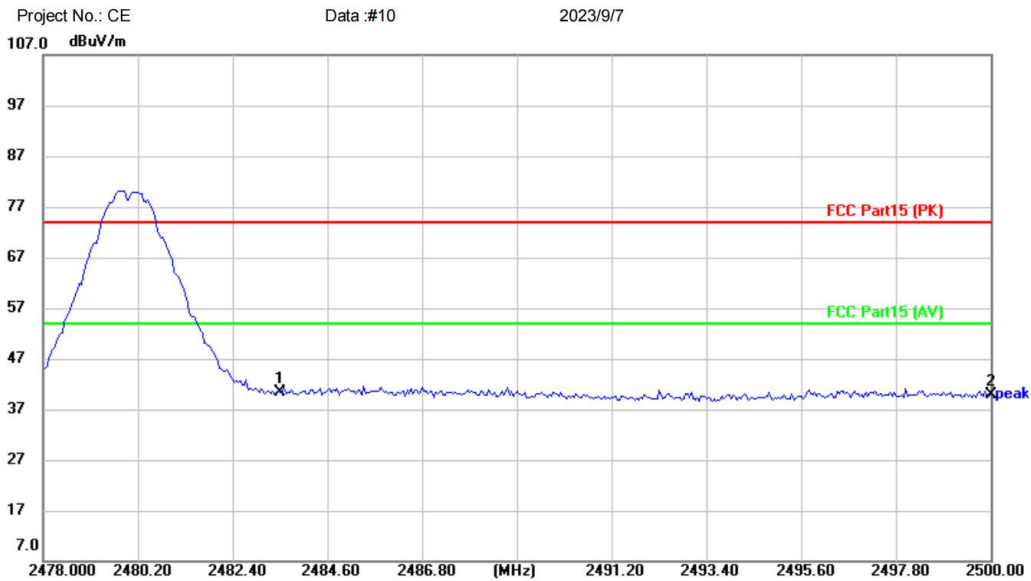
Site	Polarization: <b>Horizontal</b>	Temperature: (C)
Limit: FCC Part15 (PK)	Power:	Humidity: %RH
EUT: Wireless Headphones		
M/N: GoFree 2		
Mode: TX-H		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	2483.500	44.38	-3.59	40.79	74.00	-33.21	peak	
2		2500.000	43.45	-3.60	39.85	74.00	-34.15	peak	

**Test Result: Pass**

[TestMode: TX highest channel]; [Polarity: Vertical]

**Radiated Emission Measurement**



Site	Polarization: <b>Vertical</b>	Temperature: (C)
Limit: FCC Part15 (PK)	Power:	Humidity: %RH
EUT: Wireless Headphones		
M/N: GoFree 2		
Mode: TX-H		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	2483.500	43.88	-3.59	40.29	74.00	-33.71	peak	
2		2500.000	43.47	-3.60	39.87	74.00	-34.13	peak	

**Test Result: Pass**

## 18 ANTENNA REQUIREMENT

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	N/A

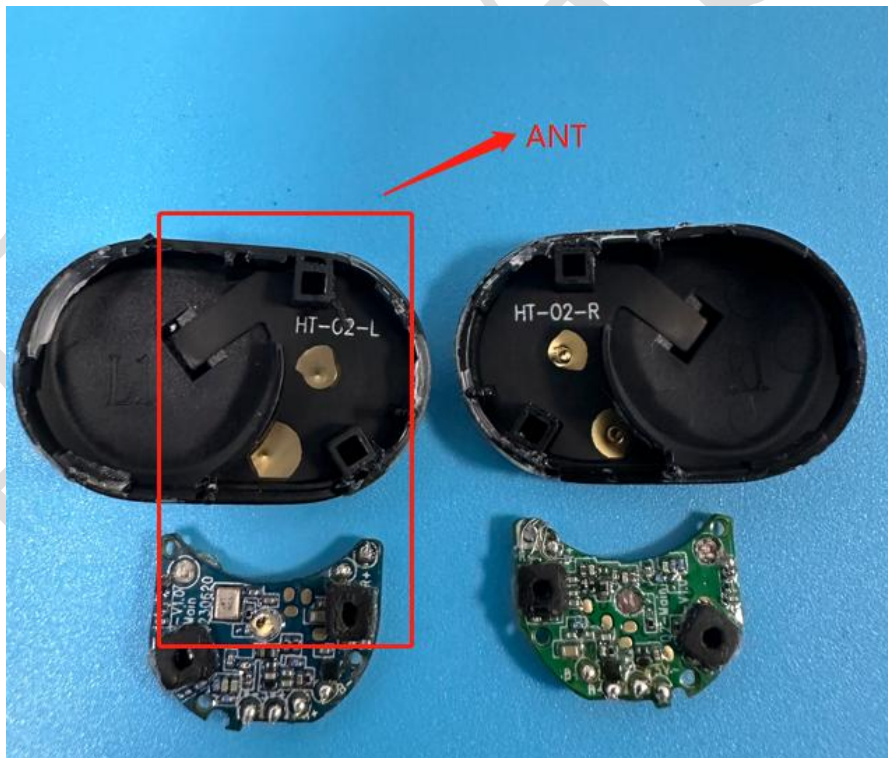
### 18.1 CONCLUSION

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 1.35dBi.



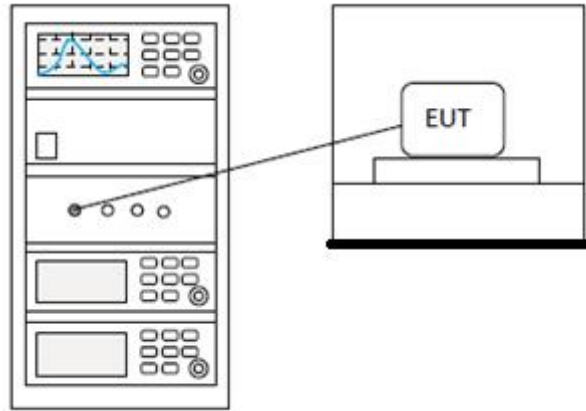
## 19 CONDUCTED SPURIOUS EMISSIONS

<b>Test Standard</b>	47 CFR Part 15, Subpart C 15.247
<b>Test Method</b>	ANSI C63.10 (2013) Section 7.8.6 & Section 11.11
<b>Test Mode (Pre-Scan)</b>	TX
<b>Test Mode (Final Test)</b>	TX
<b>Tester</b>	Aiden
<b>Temperature</b>	26°C
<b>Humidity</b>	52%

### 19.1 LIMITS

<b>Limit:</b>	<p>In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).</p>
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### 19.2 BLOCK DIAGRAM OF TEST SETUP



### 19.3 TEST DATA

**Pass: Please Refer To Appendix: Appendix1 For Details**

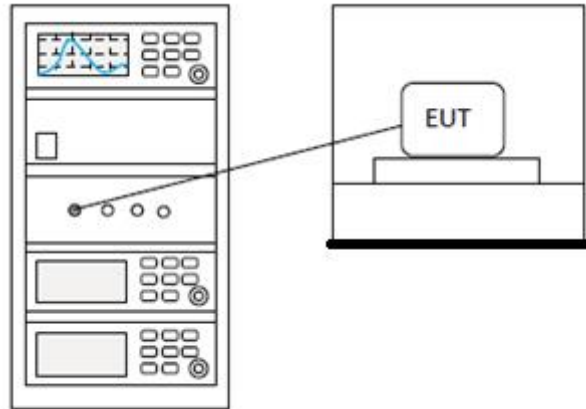
## 20 CONDUCTED BAND EDGES MEASUREMENT

<b>Test Standard</b>	47 CFR Part 15, Subpart C 15.247
<b>Test Method</b>	ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2
<b>Test Mode (Pre-Scan)</b>	TX
<b>Test Mode (Final Test)</b>	TX
<b>Tester</b>	Aiden
<b>Temperature</b>	26°C
<b>Humidity</b>	52%

### 20.1 LIMITS

<b>Limit:</b>	<p>In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).</p>
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## 20.2 BLOCK DIAGRAM OF TEST SETUP



## 20.3 TEST DATA

**Pass: Please Refer To Appendix: Appendix1 For Details**

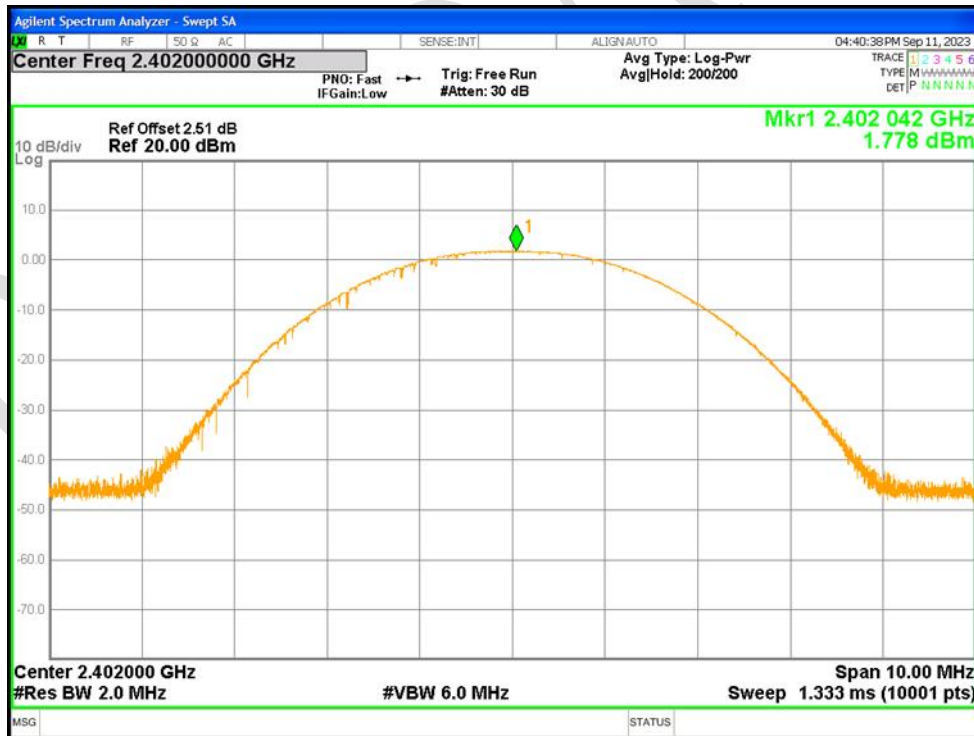
## 21 APPENDIX

### Appendix1

#### 21.1 MAXIMUM CONDUCTED OUTPUT POWER

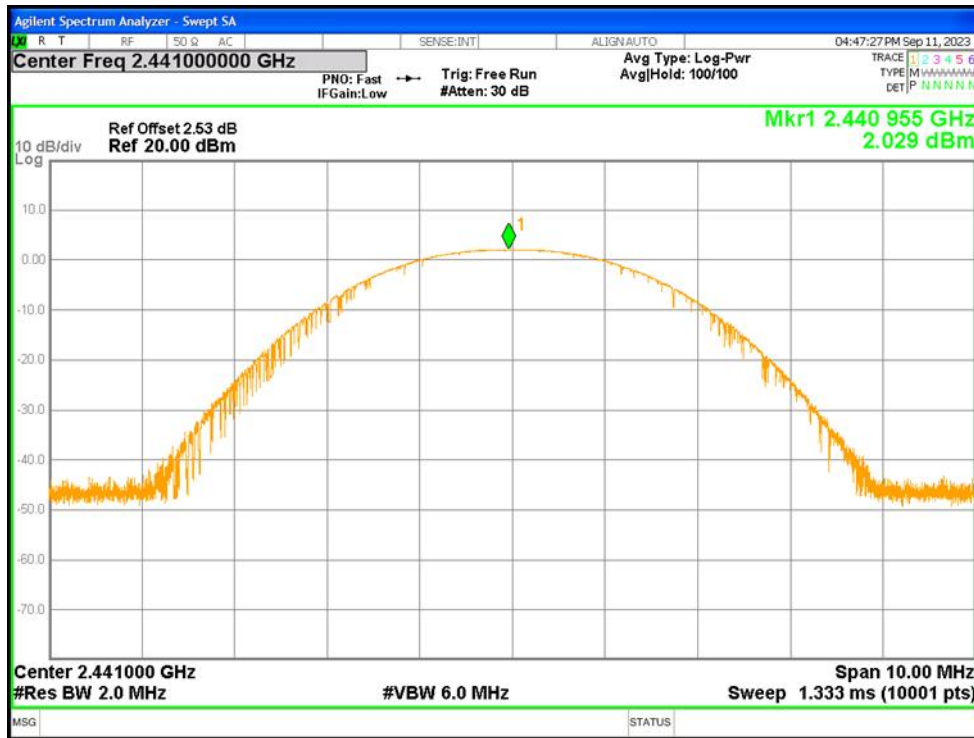
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	1.778	21	Pass
NVNT	1-DH1	2441	Ant1	2.029	21	Pass
NVNT	1-DH1	2480	Ant1	1.732	21	Pass
NVNT	2-DH1	2402	Ant1	1.001	21	Pass
NVNT	2-DH1	2441	Ant1	-0.893	21	Pass
NVNT	2-DH1	2480	Ant1	-0.861	21	Pass
NVNT	3-DH1	2402	Ant1	1.138	21	Pass
NVNT	3-DH1	2441	Ant1	-0.714	21	Pass
NVNT	3-DH1	2480	Ant1	-0.635	21	Pass

Power NVNT 1-DH1 2402MHz Ant1

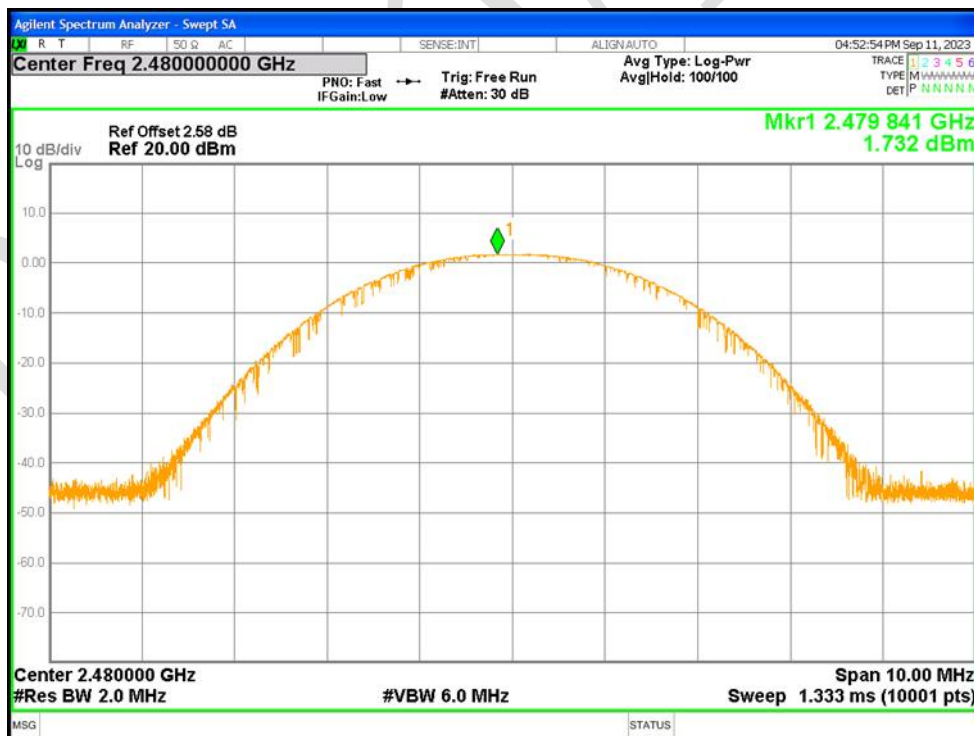




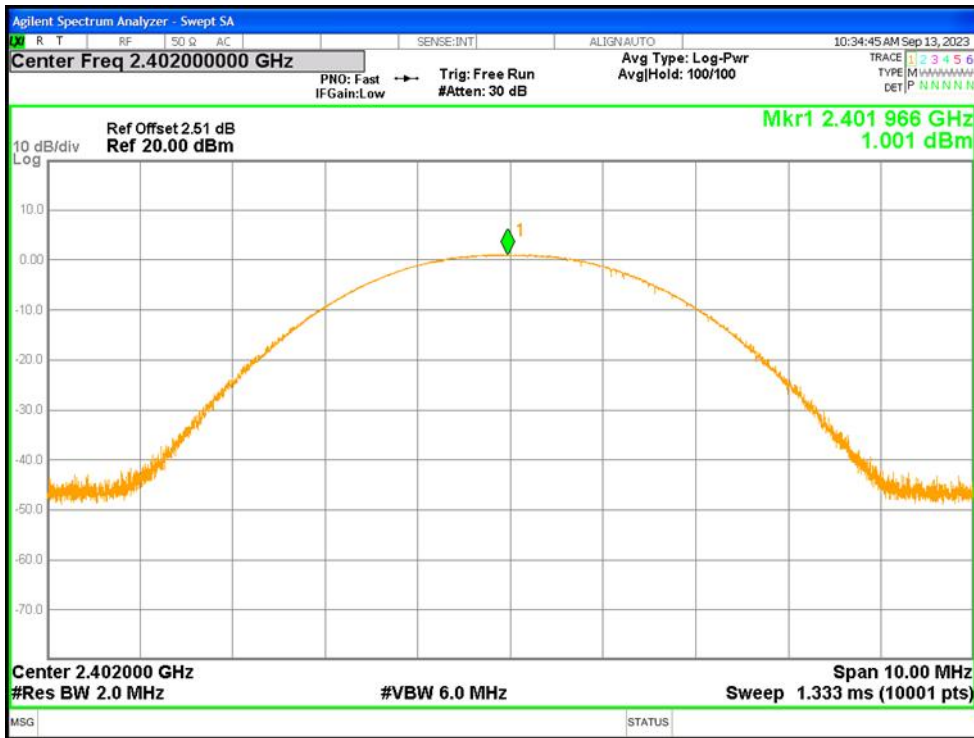
Power NVNT 1-DH1 2441MHz Ant1



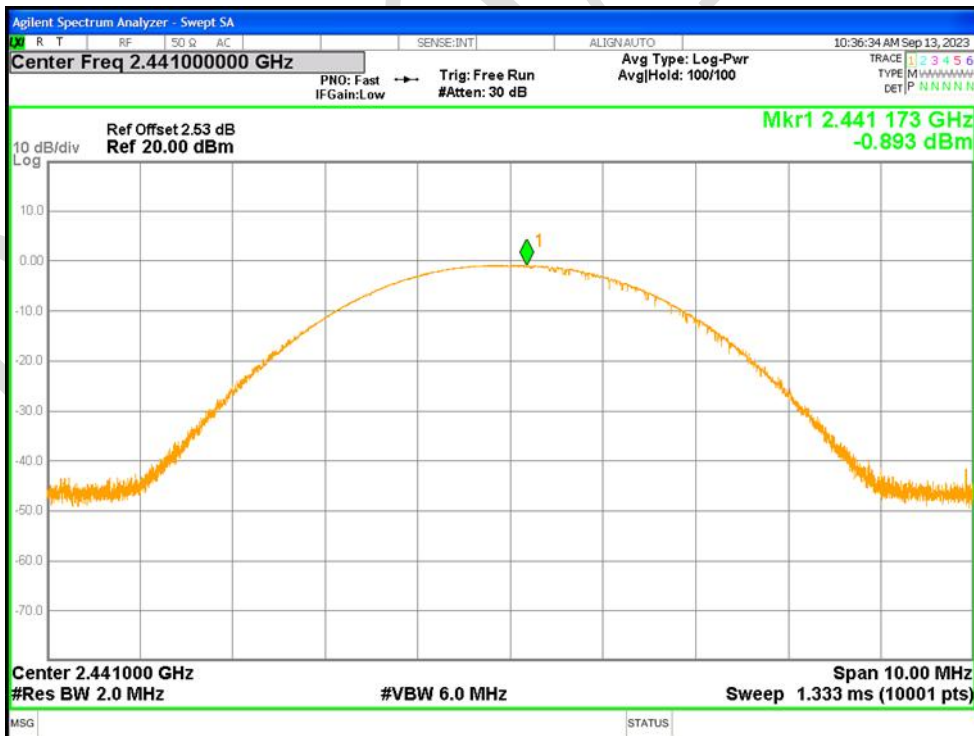
Power NVNT 1-DH1 2480MHz Ant1



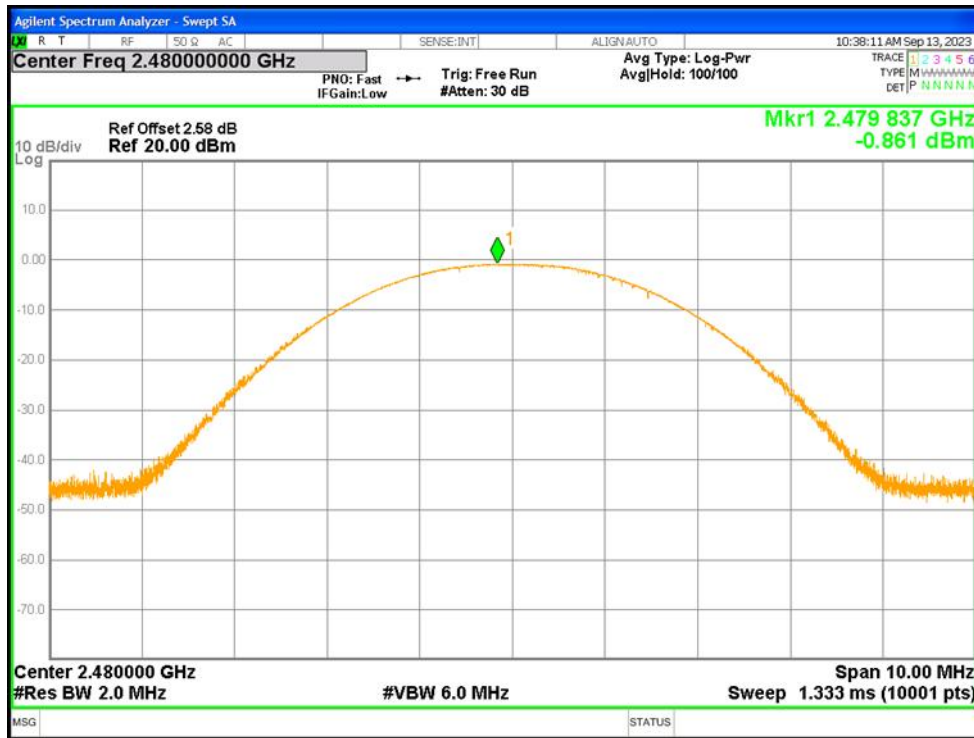
Power NVNT 2-DH1 2402MHz Ant1



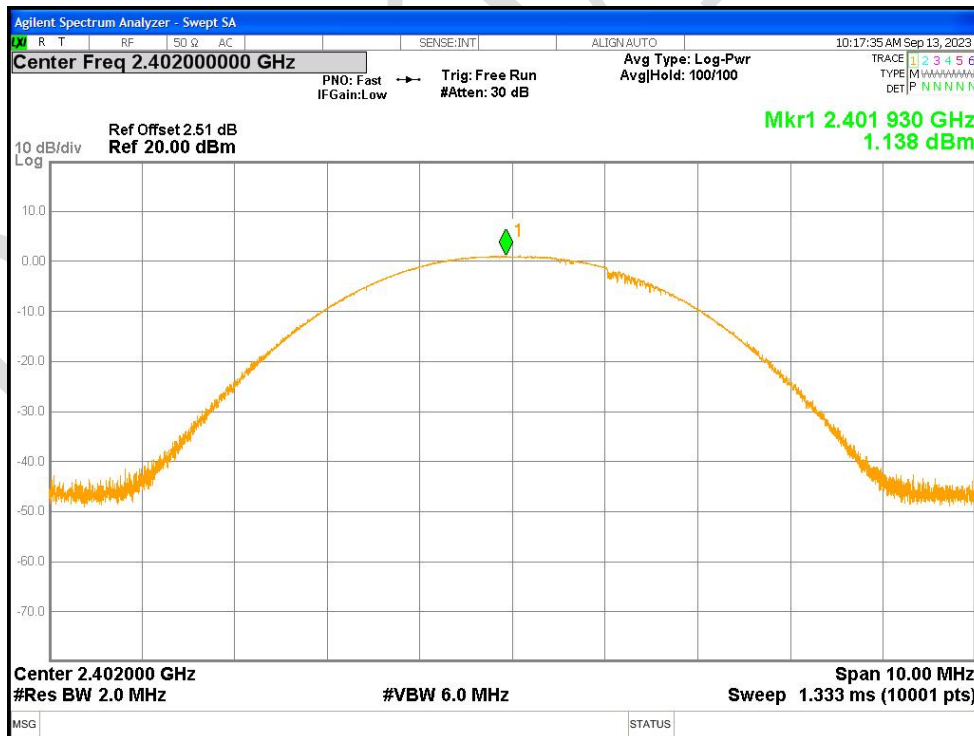
Power NVNT 2-DH1 2441MHz Ant1



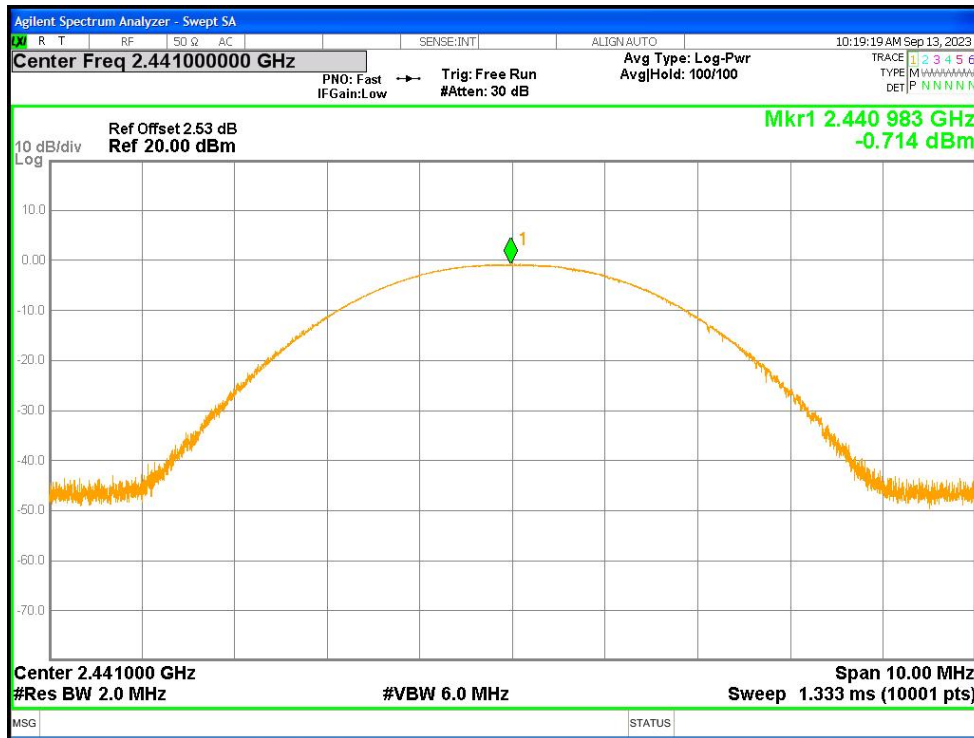
Power NVNT 2-DH1 2480MHz Ant1



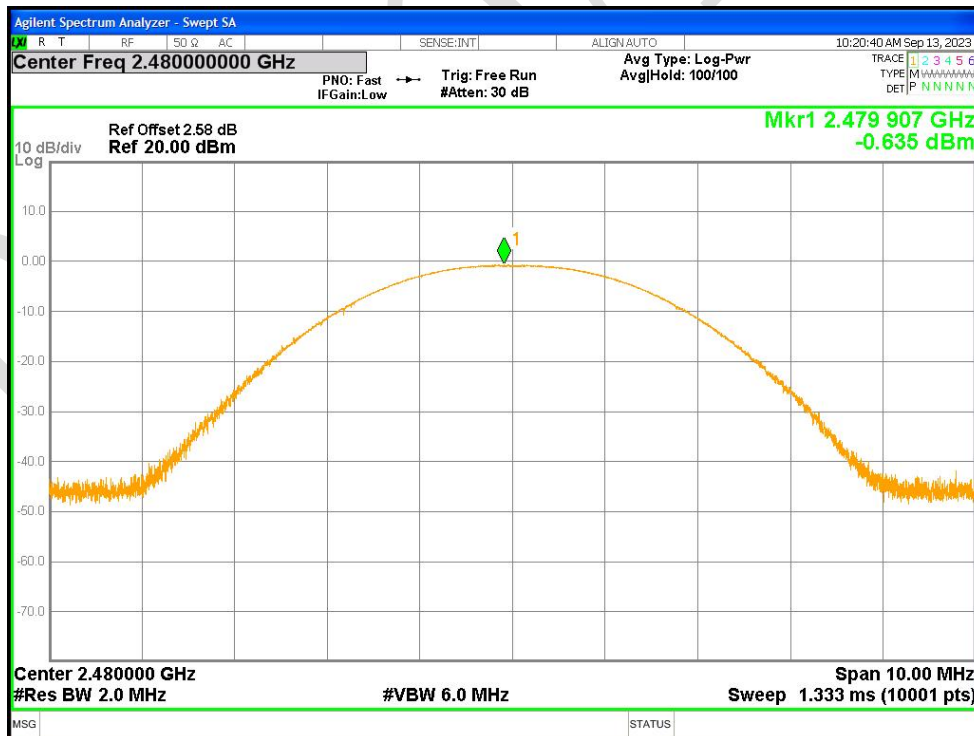
Power NVNT 3-DH1 2402MHz Ant1



Power NVNT 3-DH1 2441MHz Ant1



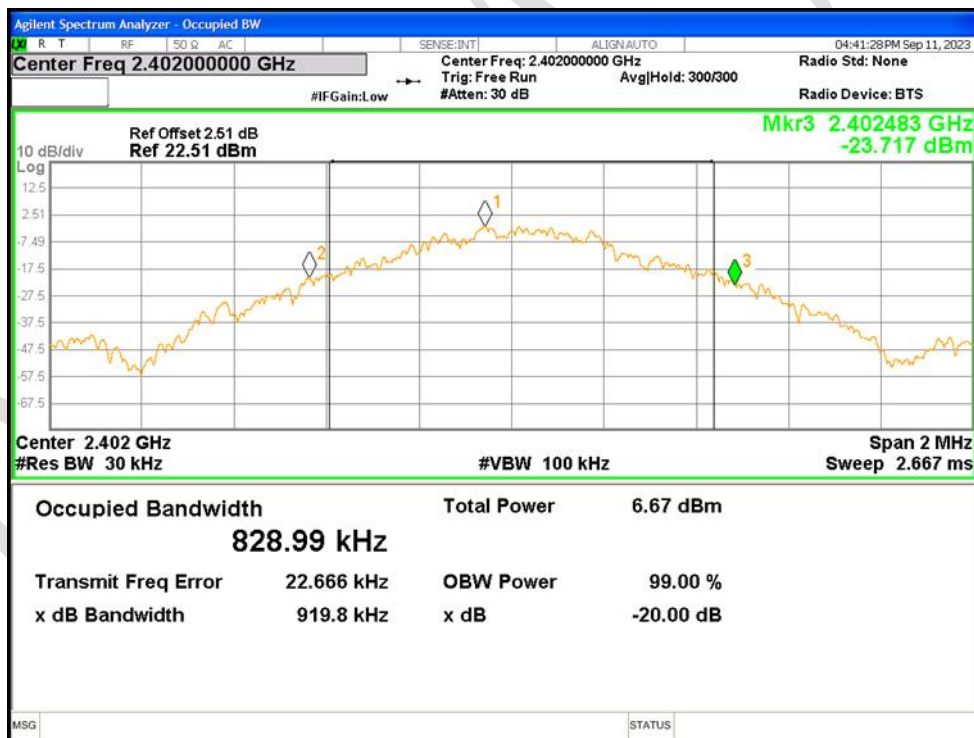
Power NVNT 3-DH1 2480MHz Ant1



**21.2 -20DB BANDWIDTH**

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.9198	0	Pass
NVNT	1-DH1	2441	Ant1	0.8378	0	Pass
NVNT	1-DH1	2480	Ant1	0.9876	0	Pass
NVNT	2-DH1	2402	Ant1	1.202	0	Pass
NVNT	2-DH1	2441	Ant1	1.207	0	Pass
NVNT	2-DH1	2480	Ant1	1.205	0	Pass
NVNT	3-DH1	2402	Ant1	1.209	0	Pass
NVNT	3-DH1	2441	Ant1	1.21	0	Pass
NVNT	3-DH1	2480	Ant1	1.206	0	Pass

-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



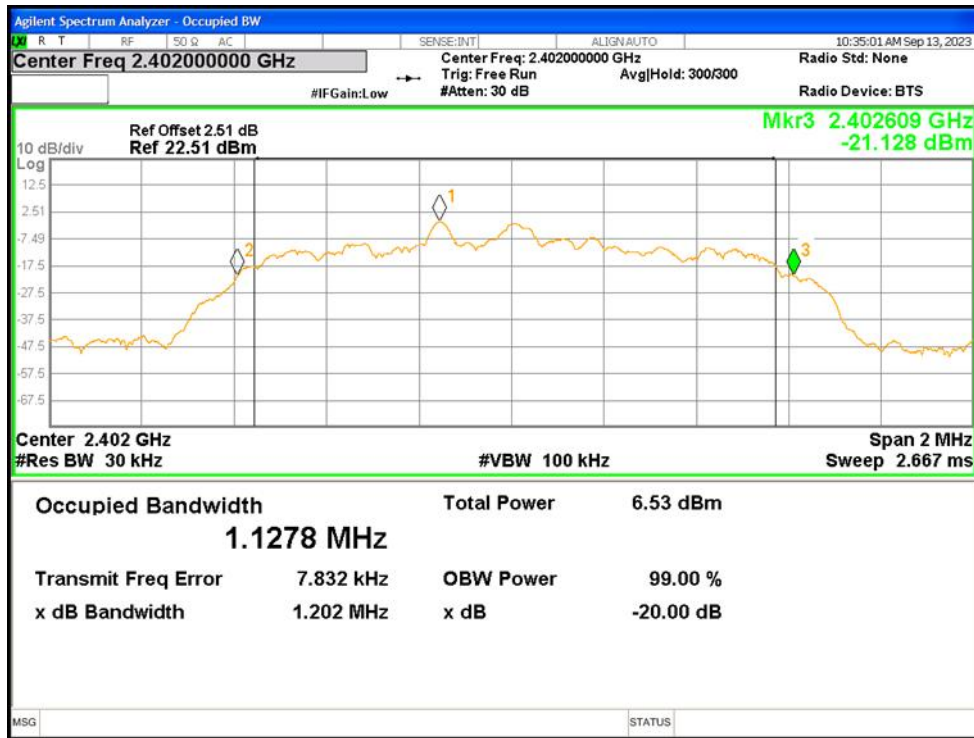
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



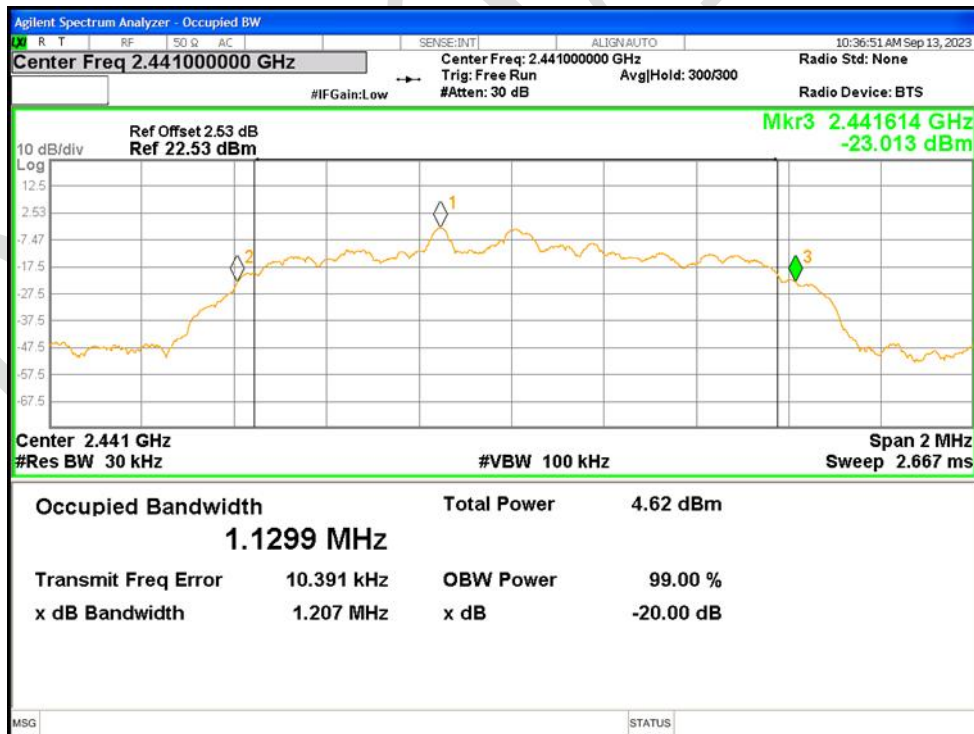
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



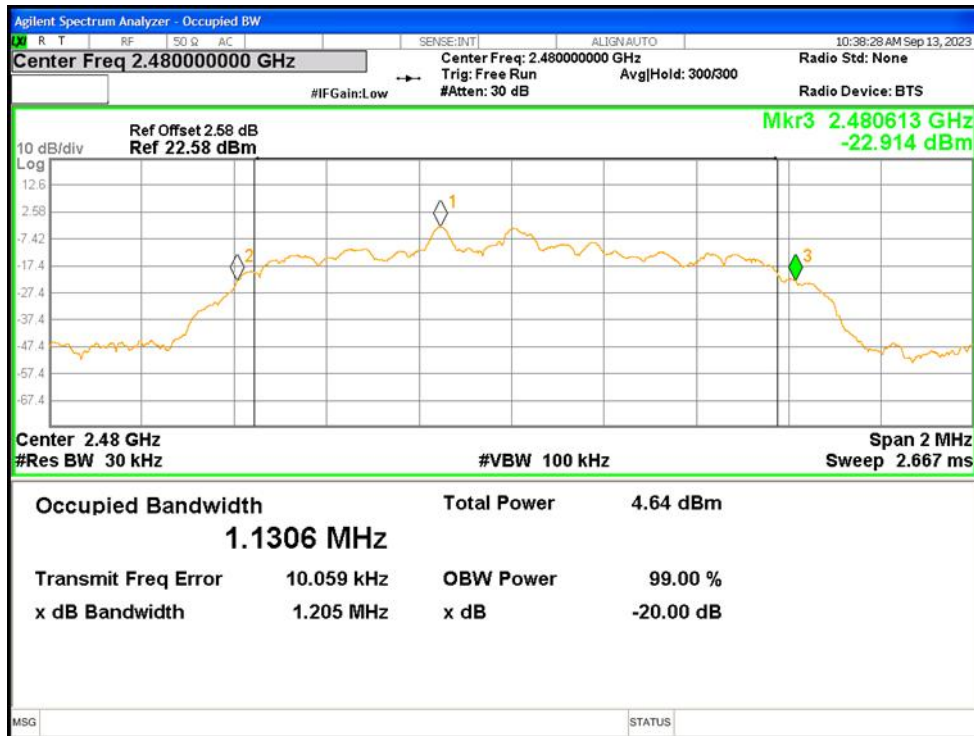
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



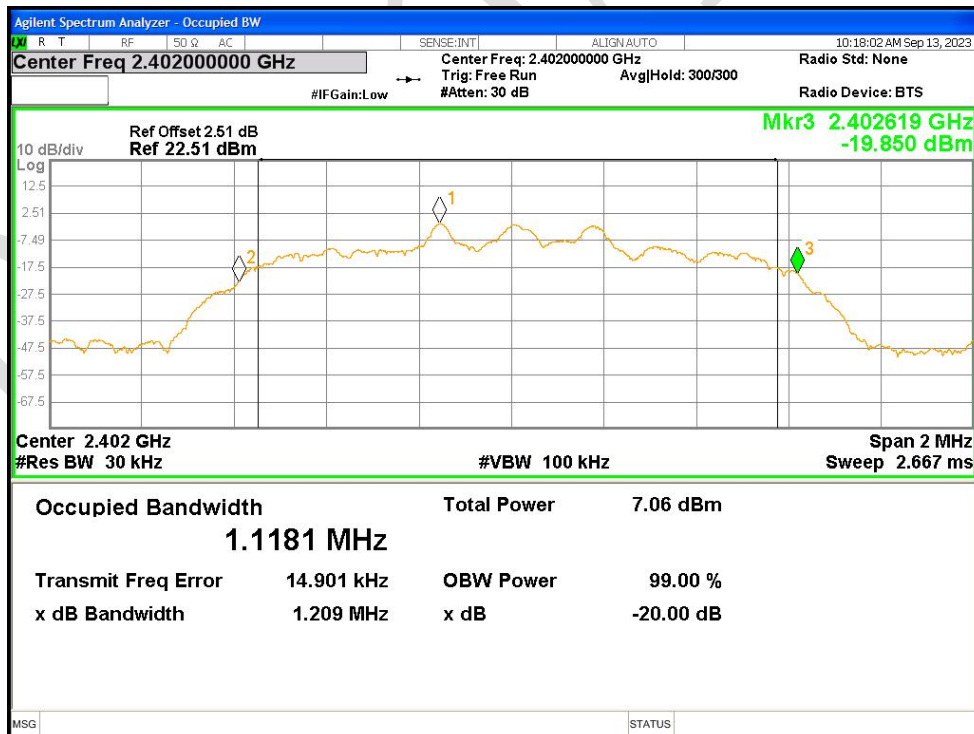
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

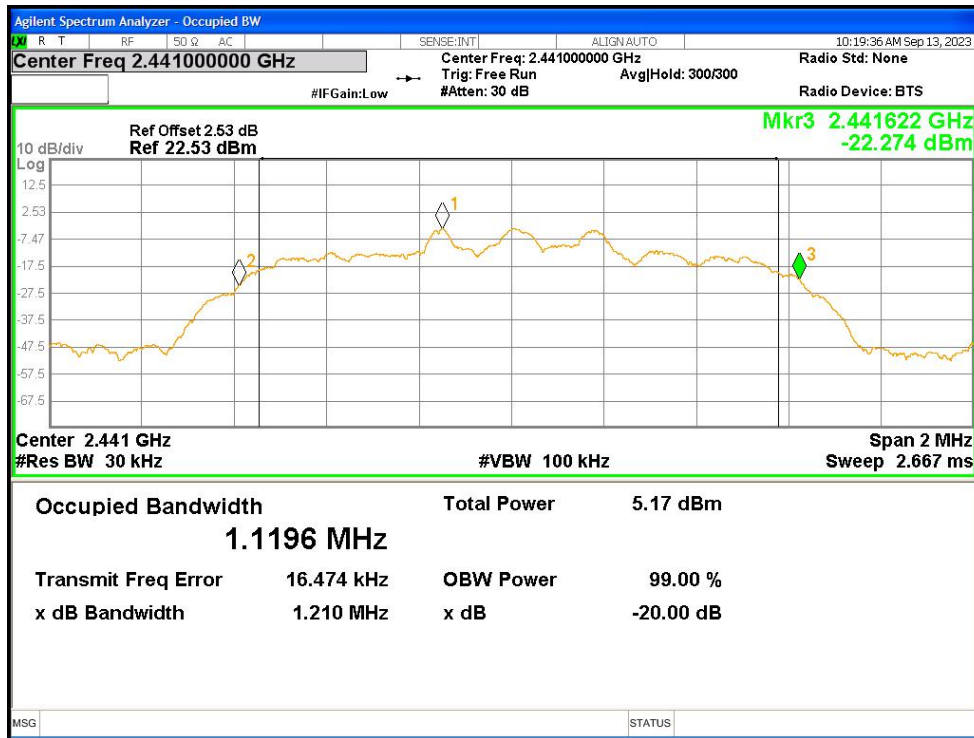


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1

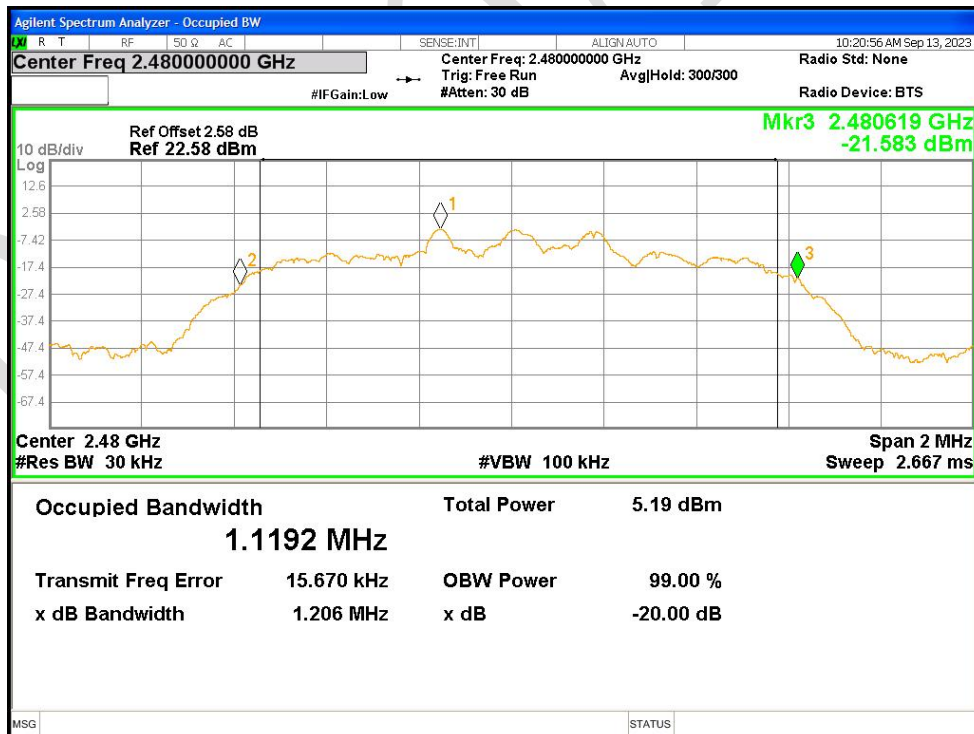




-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



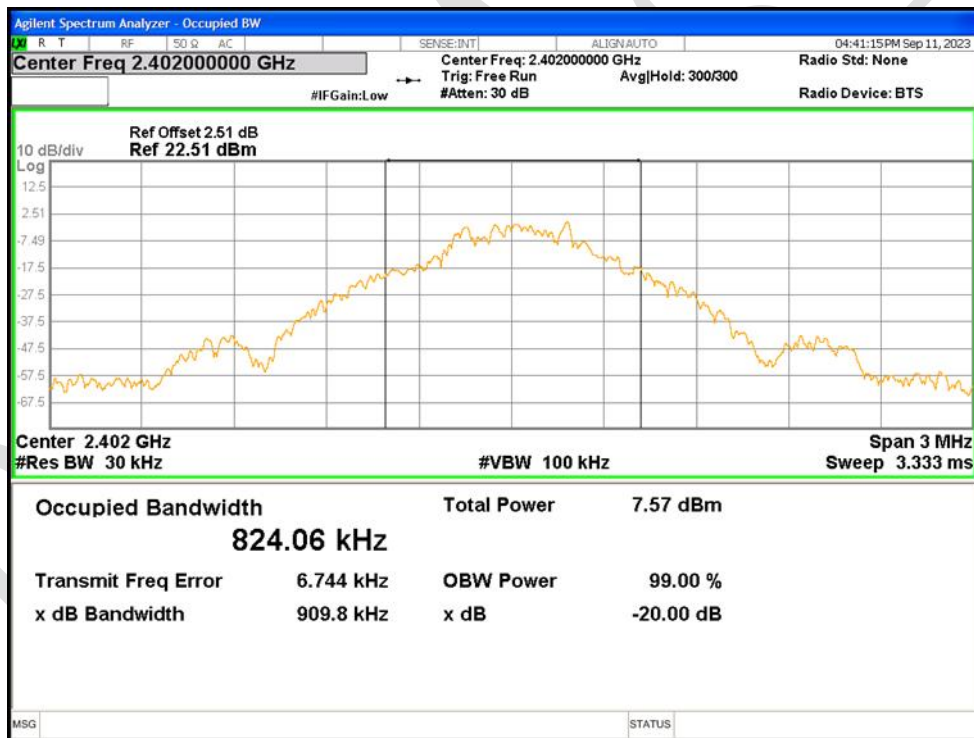
-20dB Bandwidth NVNT 3-DH1 2480MHz Ant1



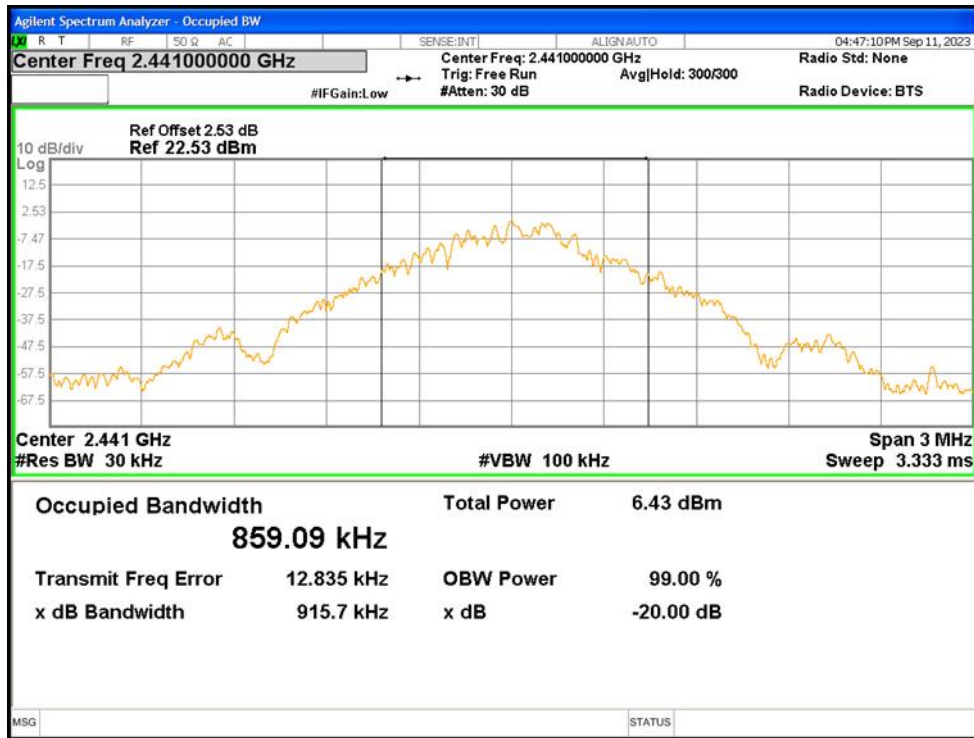
### 21.3 OCCUPIED CHANNEL BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.82406
NVNT	1-DH1	2441	Ant1	0.85909
NVNT	1-DH1	2480	Ant1	0.94542
NVNT	2-DH1	2402	Ant1	1.1285
NVNT	2-DH1	2441	Ant1	1.1293
NVNT	2-DH1	2480	Ant1	1.1293
NVNT	3-DH1	2402	Ant1	1.1191
NVNT	3-DH1	2441	Ant1	1.1174
NVNT	3-DH1	2480	Ant1	1.1140

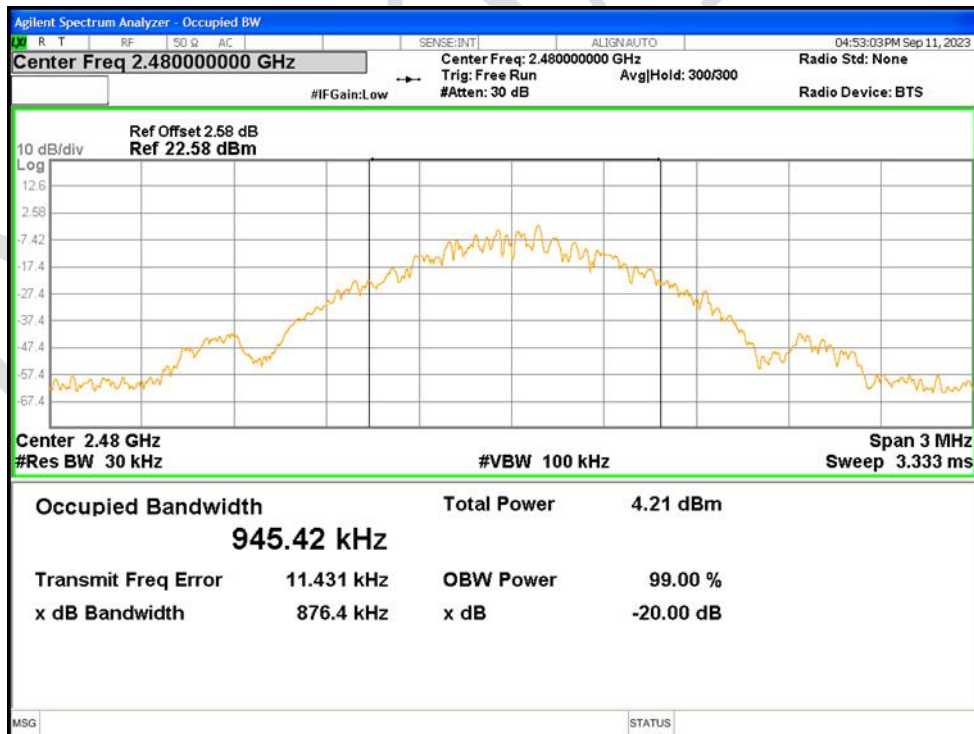
OBW NVNT 1-DH1 2402MHz Ant1



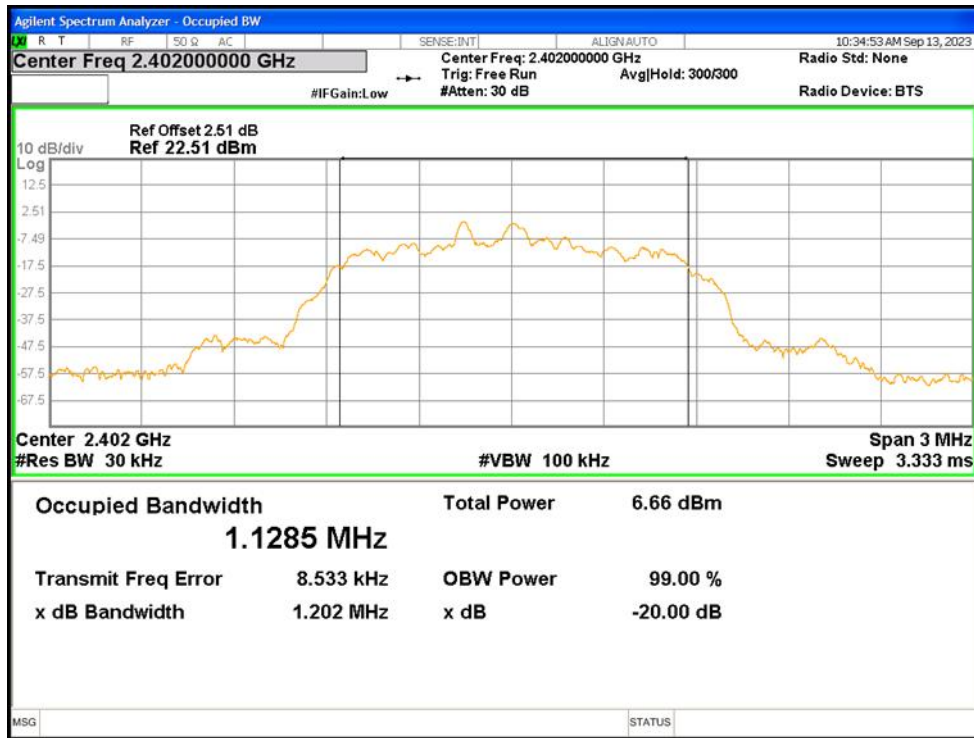
OBW NVNT 1-DH1 2441MHz Ant1



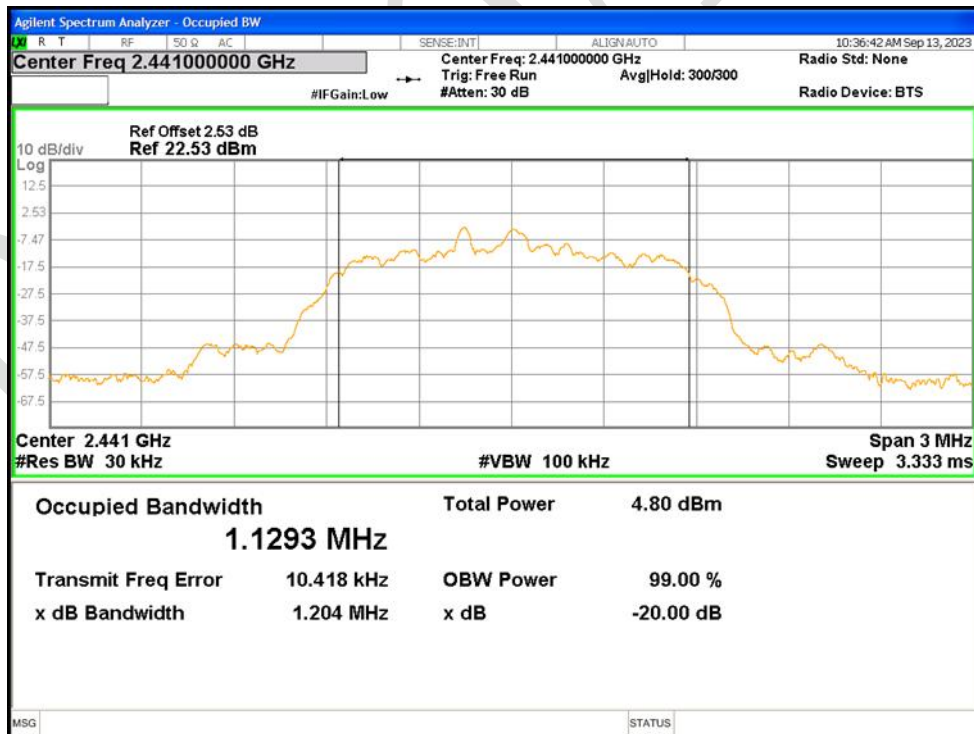
OBW NVNT 1-DH1 2480MHz Ant1



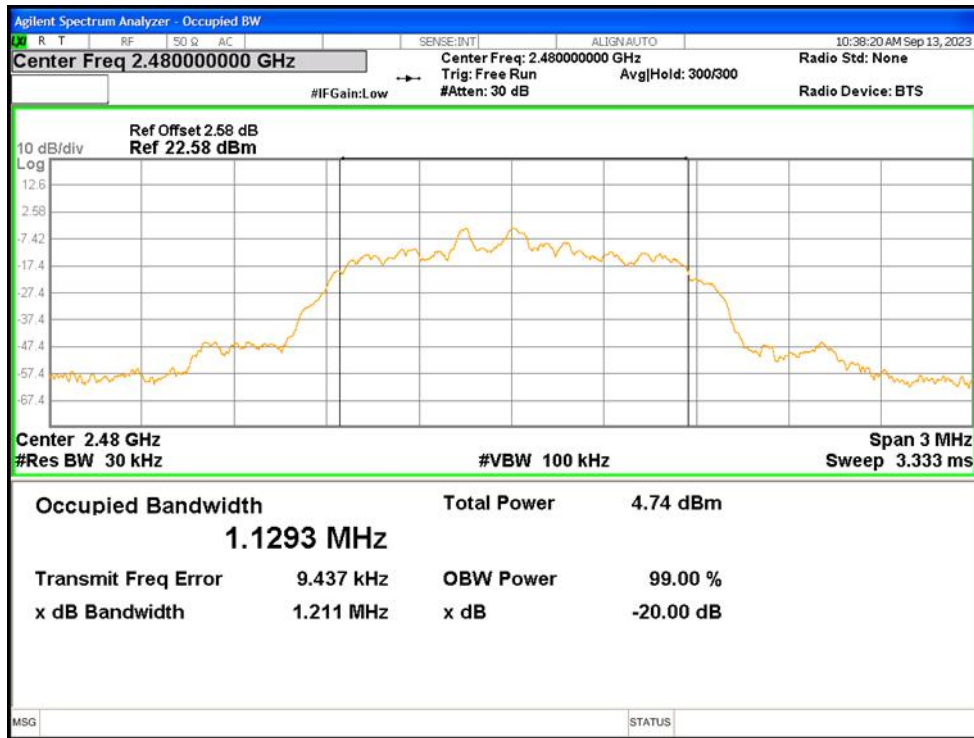
OBW NVNT 2-DH1 2402MHz Ant1



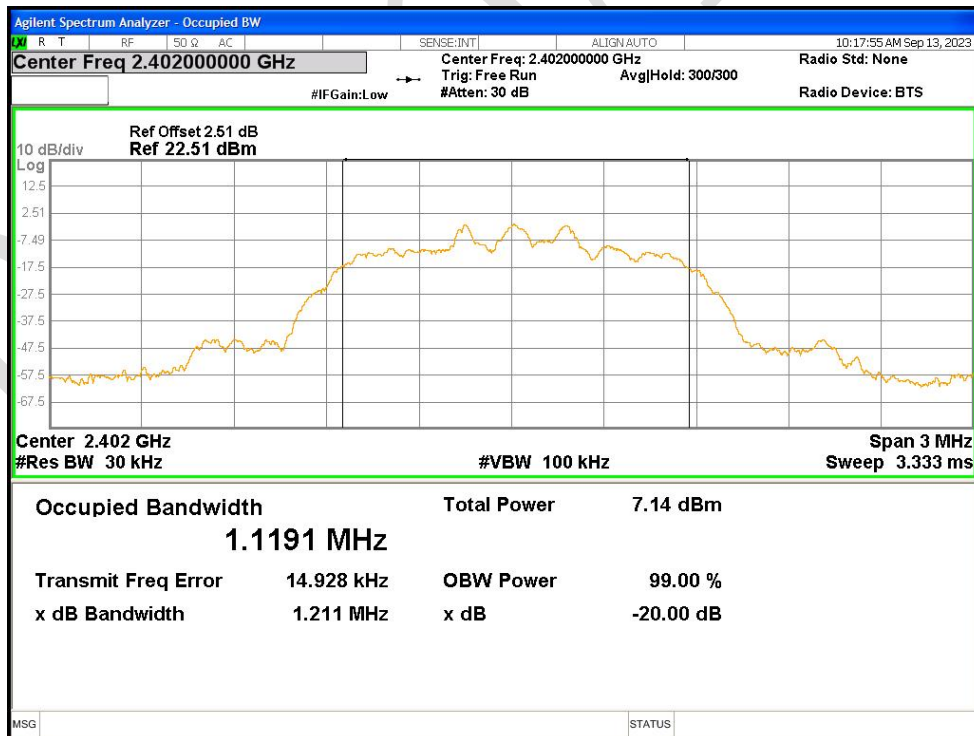
OBW NVNT 2-DH1 2441MHz Ant1



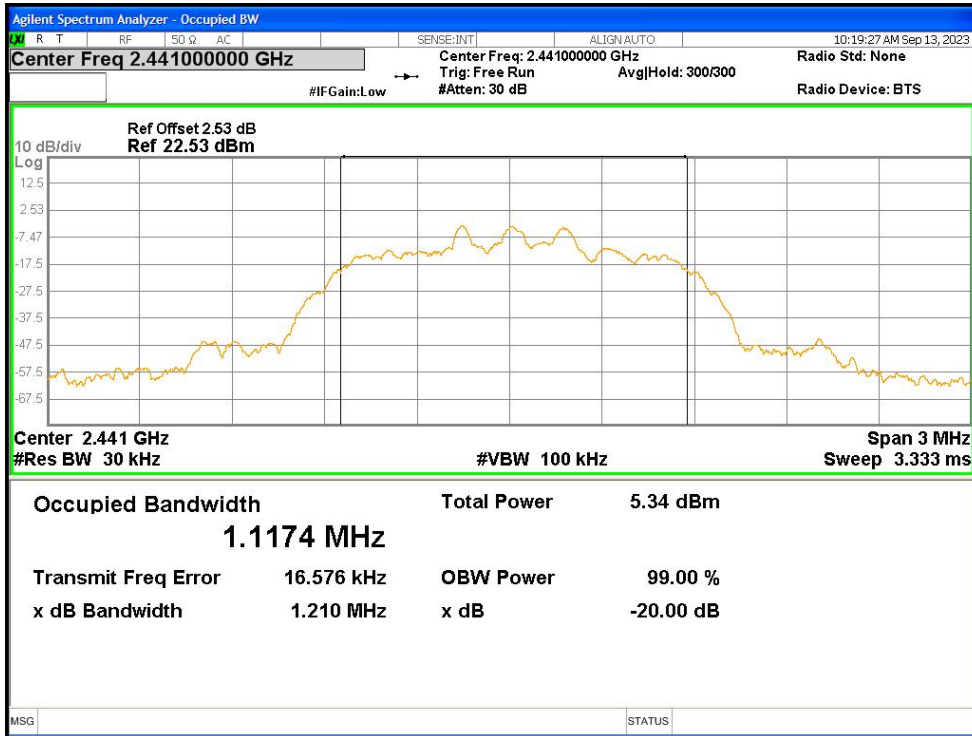
OBW NVNT 2-DH1 2480MHz Ant1



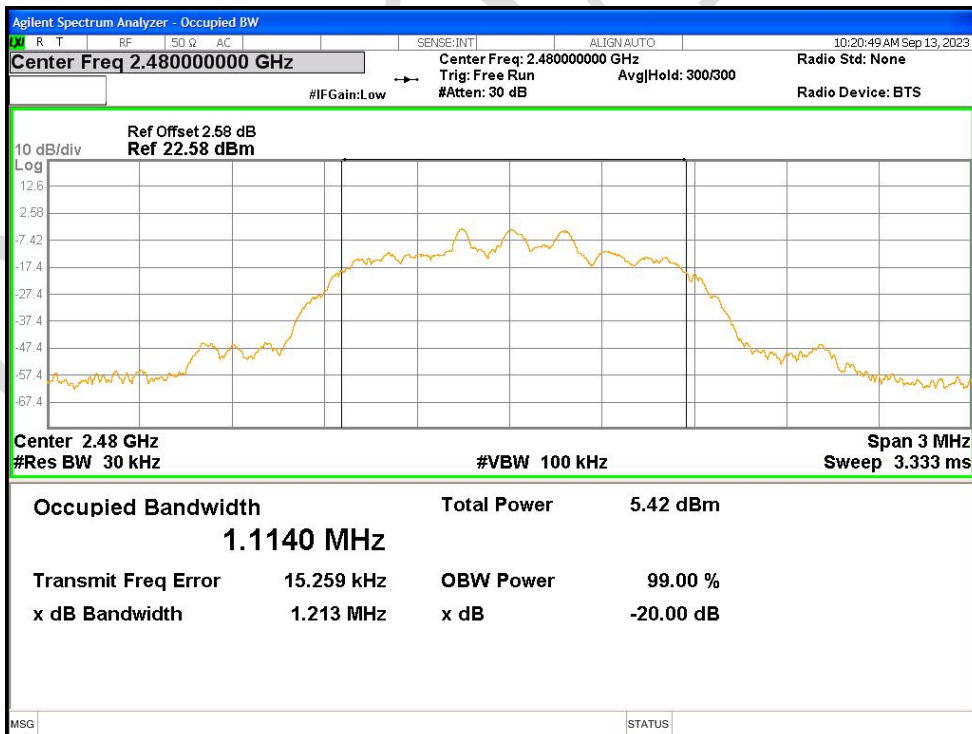
OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1



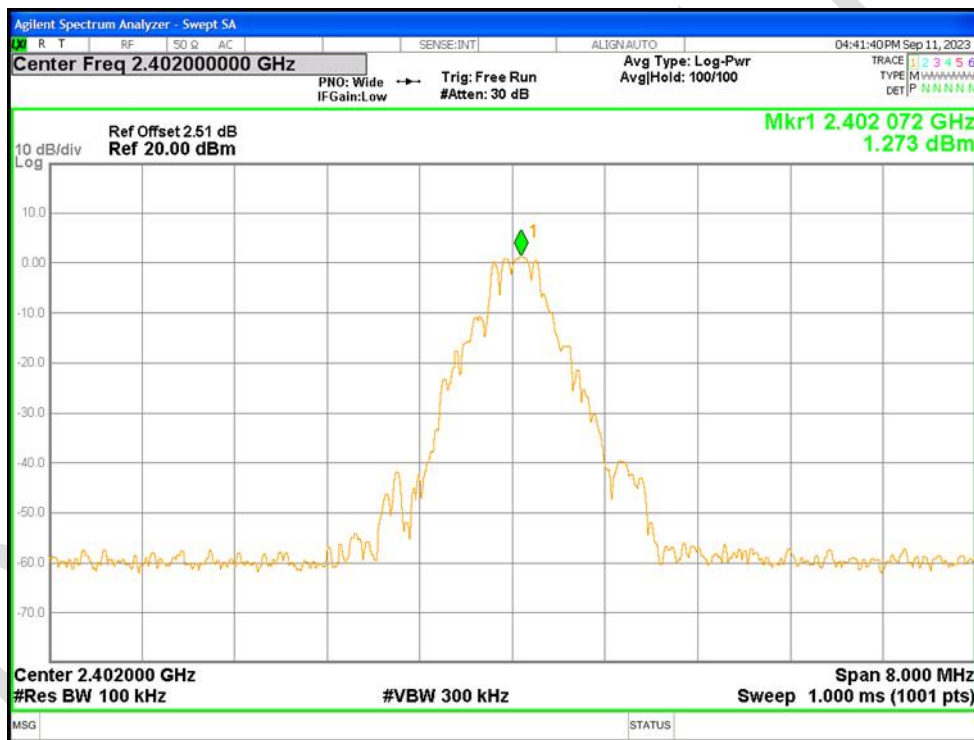
OBW NVNT 3-DH1 2480MHz Ant1



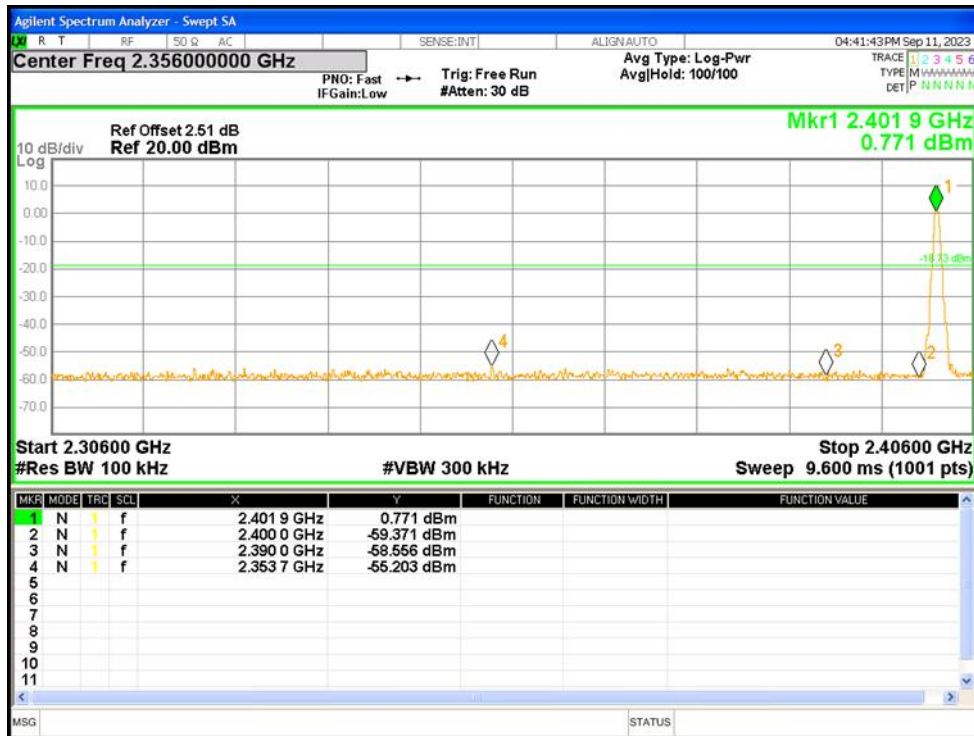
### 21.4 BAND EDGE

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-56.47	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-55.01	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-56.06	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-53.13	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-55.86	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-53.86	-20	Pass

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



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

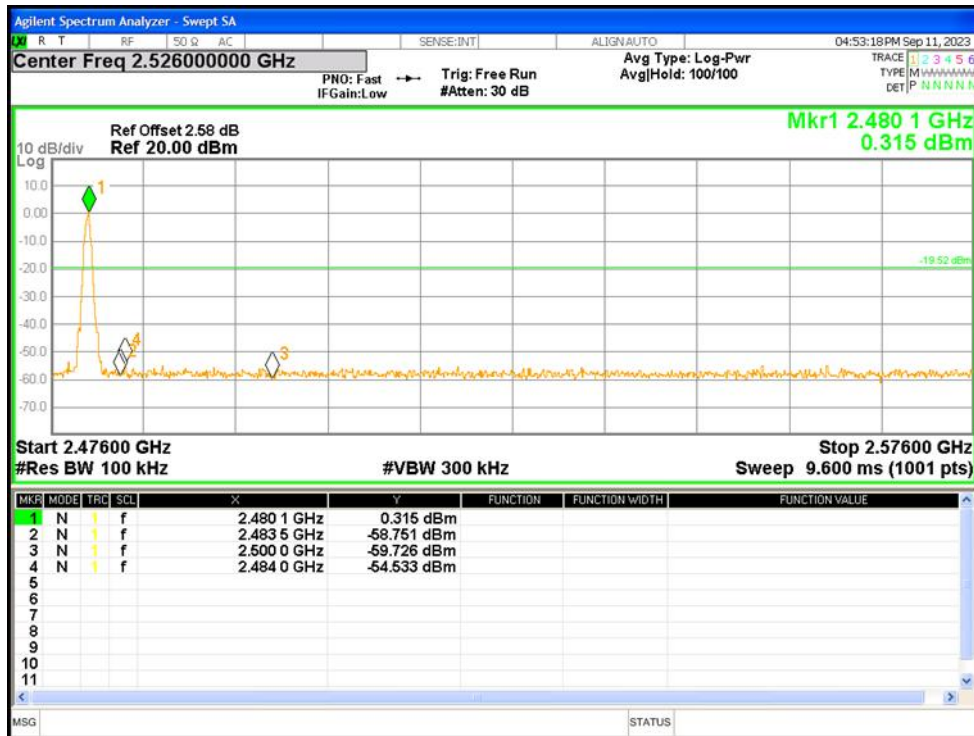


### Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref

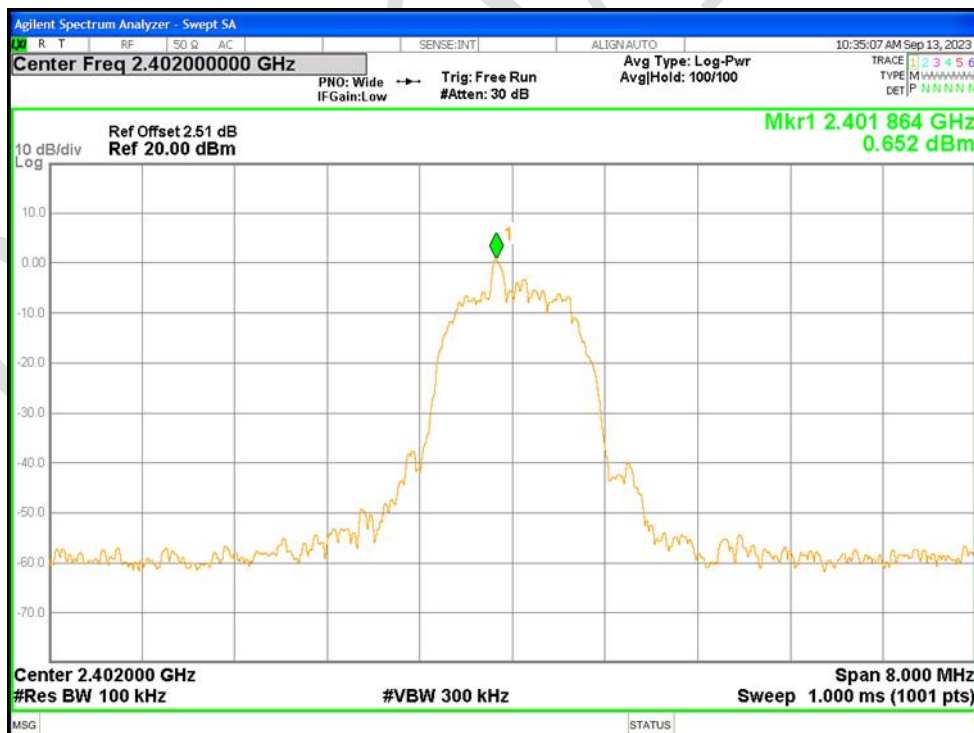




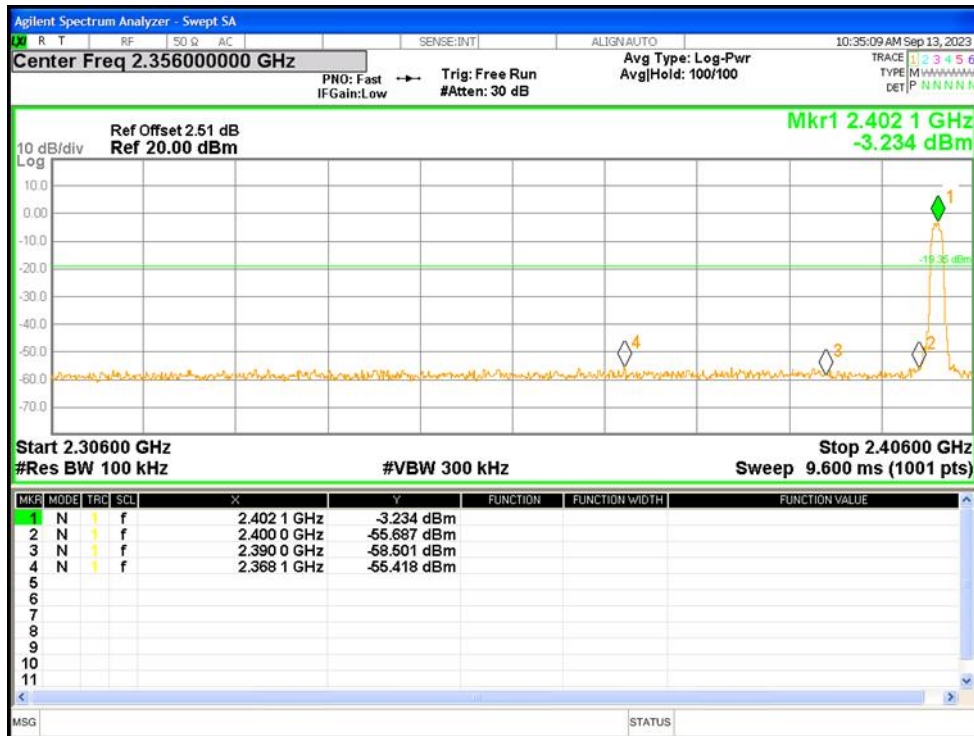
### Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



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



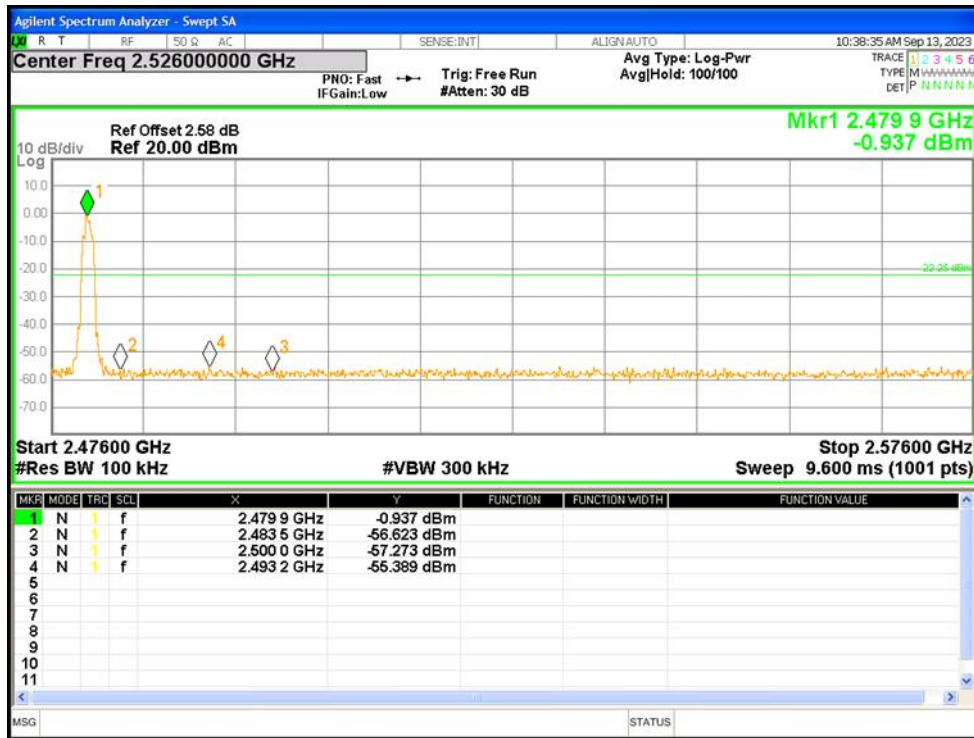
### Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



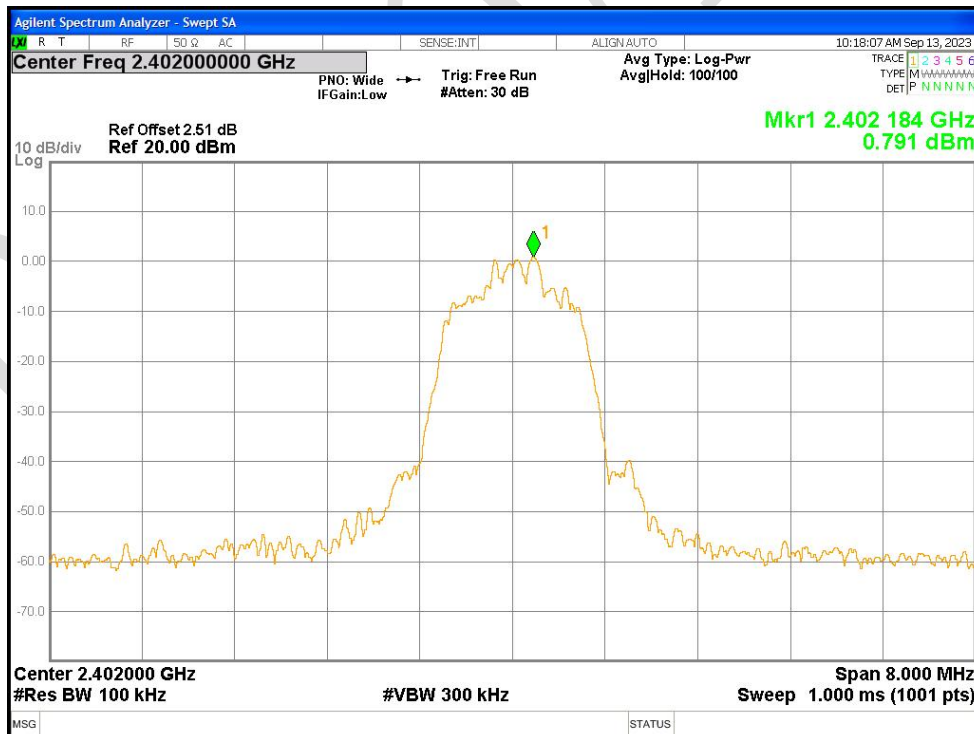
### Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Ref



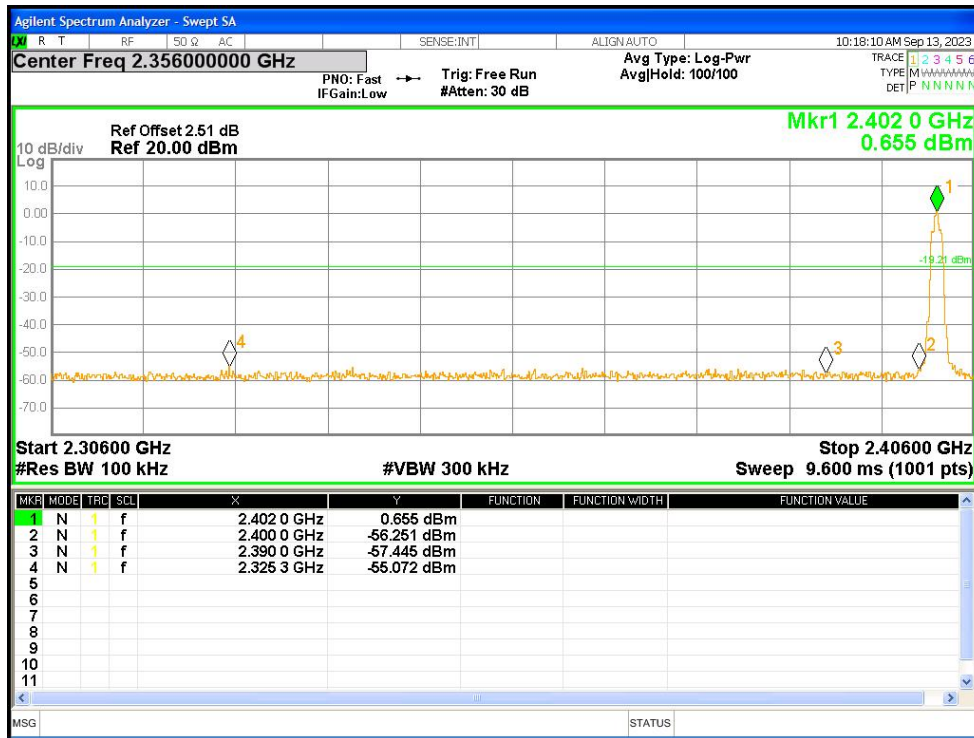
### Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission



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



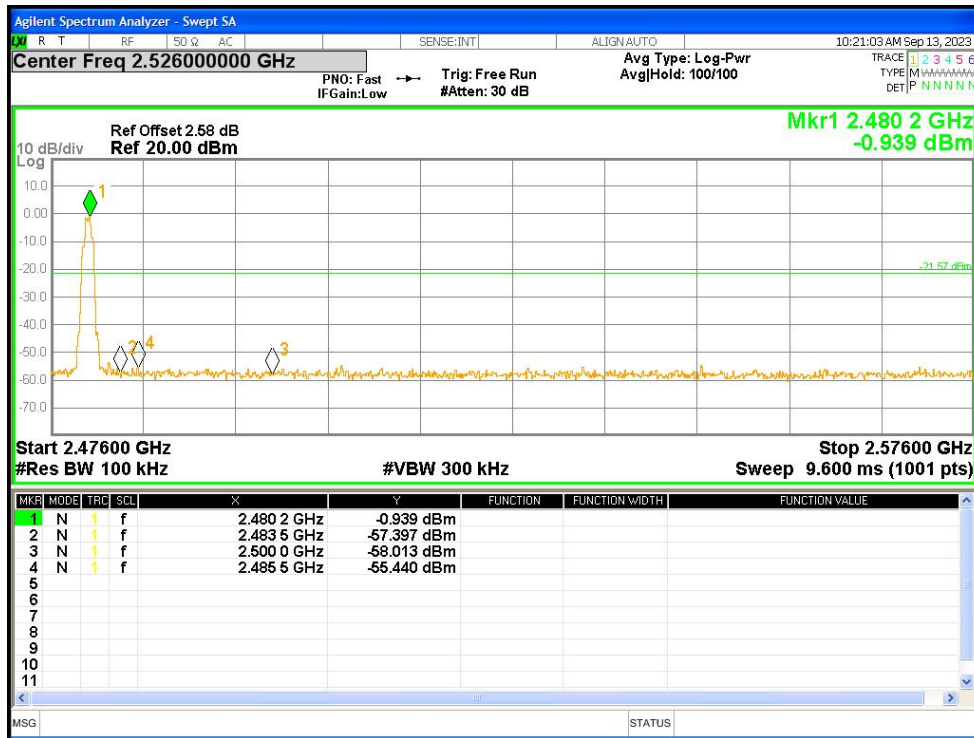
### Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission



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



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



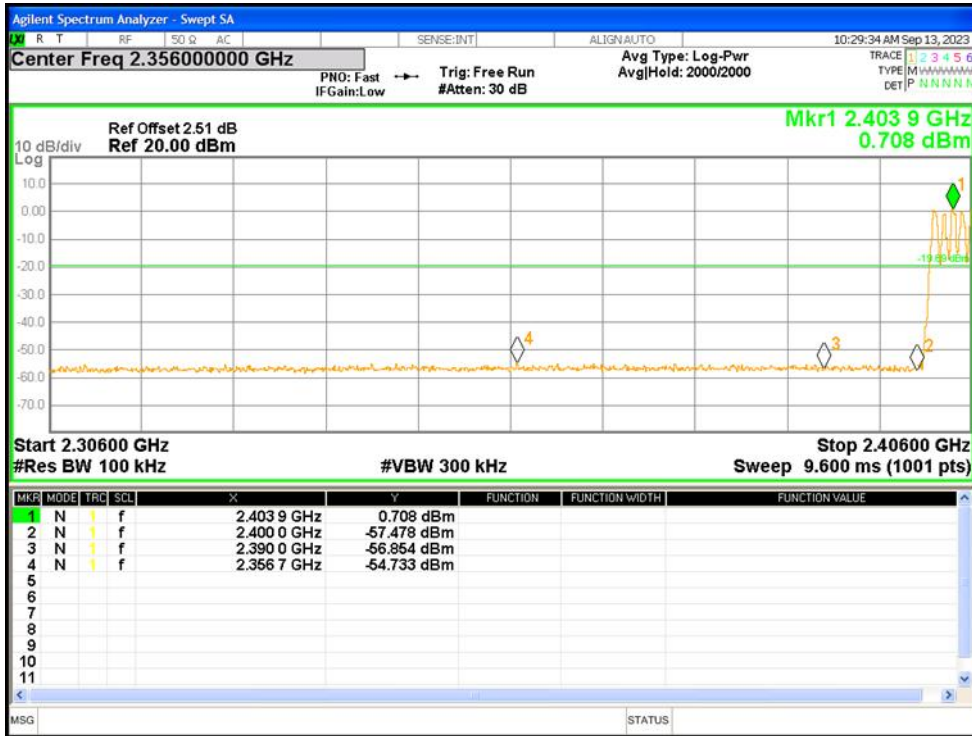
### 21.5 BAND EDGE(HOPPING)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-55.04	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-53.32	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-55.19	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-52.99	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-55.81	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-53.29	-20	Pass

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

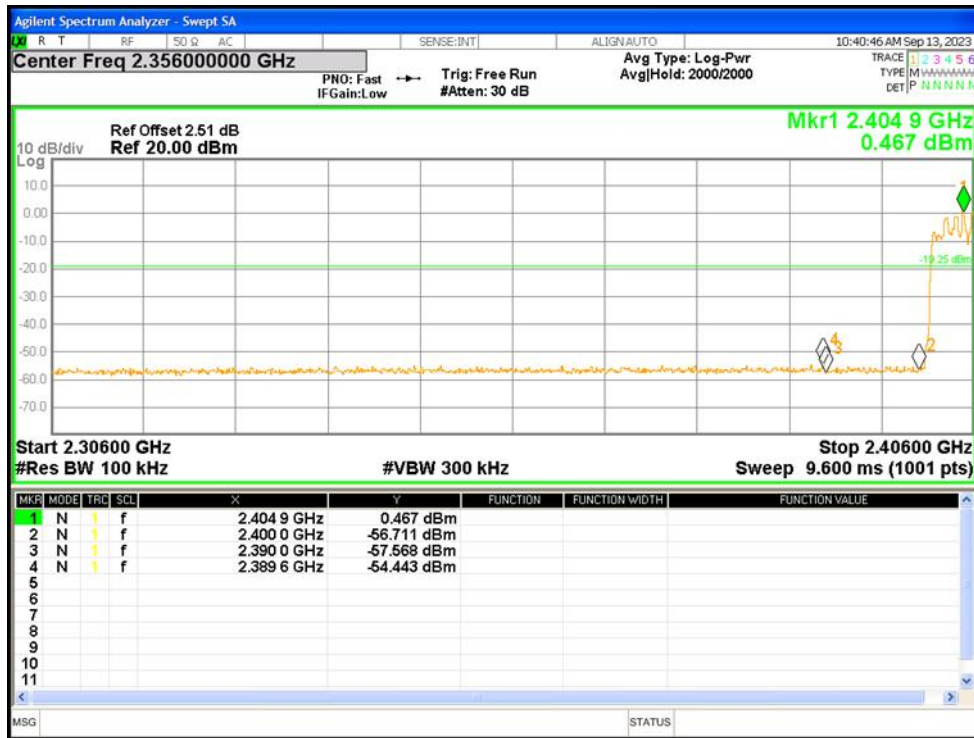


Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Ref





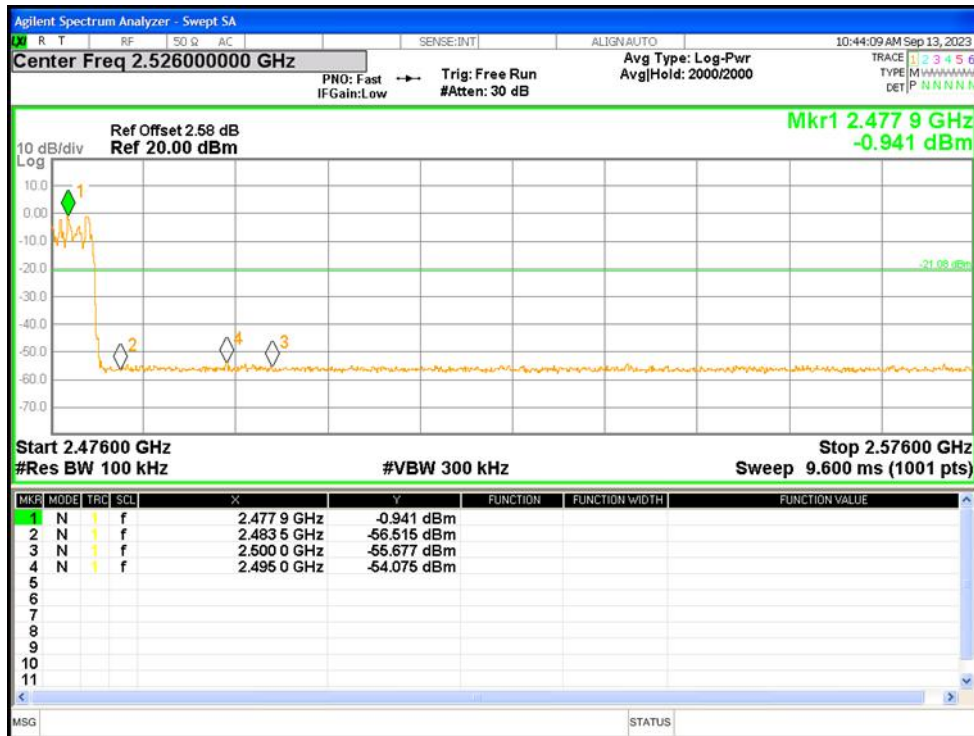
### Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission



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



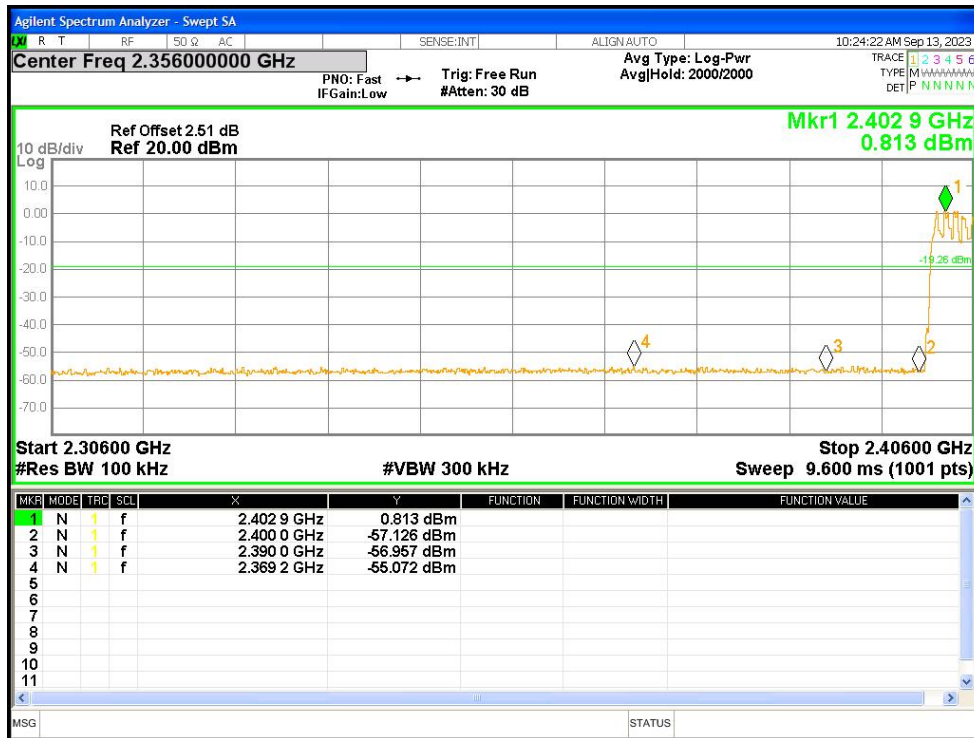
### Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission



### 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

