

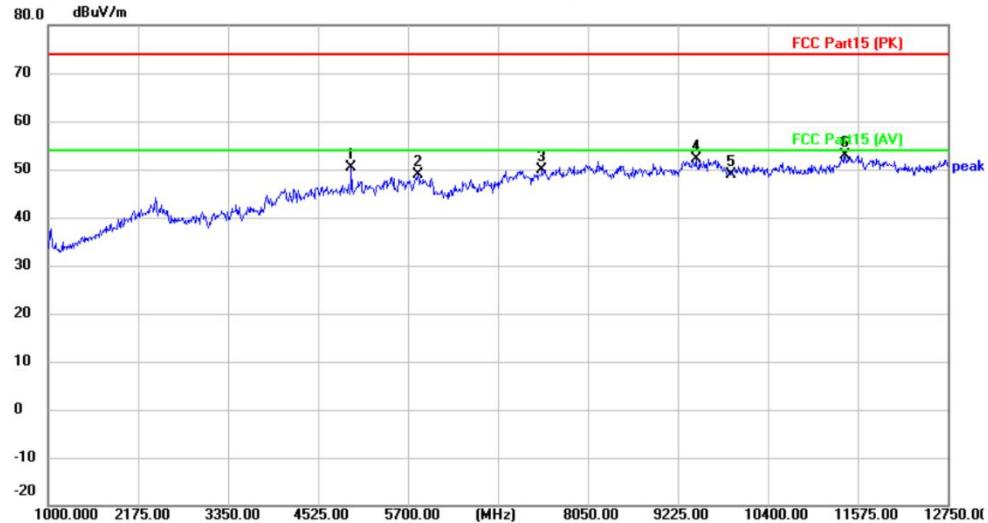
[Test mode: TX High channel]; [Polarity: Horizontal]

## Radiated Emission Measurement

Project No.: RE

Data :#15

2025/1/16



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## Site

Polarization: **Horizontal**

Temperature: (C)

Limit: FCC Part15 (PK)

## Power:

## EUT: True Wireless Earbuds

M/N: JBuds Pods ANC

Mode: BLE TX 2480 R

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit			Over			
						MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4969.750	42.88	7.41	50.29	74.00	-23.71				peak	
2		5829.250	39.87	8.93	48.80	74.00	-25.20				peak	
3		7440.000	38.87	11.03	49.90	74.00	-24.10				peak	
4		9460.000	39.05	12.97	52.02	74.00	-21.98				peak	
5		9920.000	35.77	13.16	48.93	74.00	-25.07				peak	
6	*	11410.50	38.49	14.33	52.82	74.00	-21.18				peak	

\*:Maximum data x:Over limit l:over margin

⟨Reference Only

Receiver: ESR 1

Spectrum Analyzer: FSP40

## Test Result: Pass

BlueAsia of Technical Services (Shenzhen) Co.,Ltd.

Tel: +86-755-23059481

Email: [marketing@cblueasia.com](mailto:marketing@cblueasia.com) www.cblueasia.com

Version:v1.2

[Test mode: TX High channel]; [Polarity: Vertical]

## Radiated Emission Measurement

Project No.: RE

Data :#16

2025/1/16



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## Site

Polarization: **Vertical**

Temperature: (C)

Limit: FCC Part15 (PK)

## Power:

Humidity: %RH

## EUT: True Wireless Earbuds

M/N: JBuds Pods ANC

Mode: BLE TX 2480 R

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit			Over	Comment	
						MHz	dBuV	dB	dBuV/m	dBuV/m	dB
1		4960.000	39.29	7.41	46.70	74.00	-27.30			peak	
2		5805.750	39.67	9.00	48.67	74.00	-25.33			peak	
3		7440.000	38.88	11.03	49.91	74.00	-24.09			peak	
4		9330.750	38.91	13.29	52.20	74.00	-21.80			peak	
5		9920.000	36.36	13.16	49.52	74.00	-24.48			peak	
6	*	11504.50	37.95	14.87	52.82	74.00	-21.18			peak	

\*:Maximum data x:Over limit l:over margin

⟨Reference Only

Receiver: ESR 1

Spectrum Analyzer: FSP40

## Test Result: Pass

BlueAsia of Technical Services (Shenzhen) Co.,Ltd.

Tel: +86-755-23059481

Email: [marketing@cblueasia.com](mailto:marketing@cblueasia.com) [www.cblueasia.com](http://www.cblueasia.com)

Version:v1.2

## 6.9 Radiated emissions which fall in the restricted bands

<b>Test Standard</b>	47 CFR Part 15, Subpart C 15.247
<b>Test Method</b>	ANSI C63.10 (2013) Section 6.10.5
<b>Test Mode (Pre-Scan)</b>	TX
<b>Test Mode (Final Test)</b>	TX

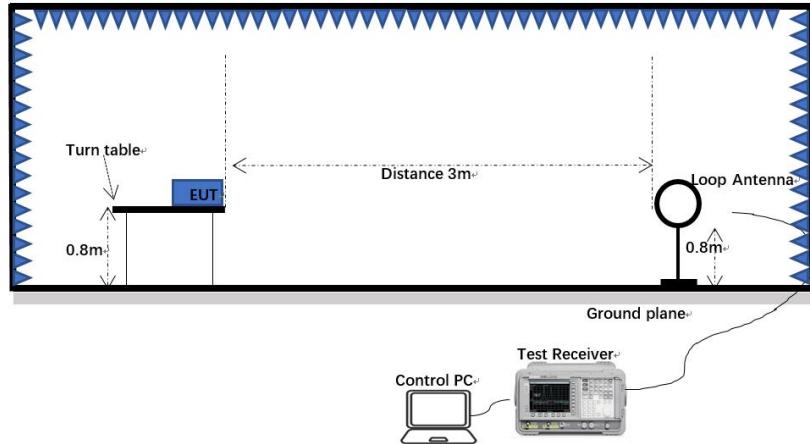
### 6.9.1 Limit

<b>Frequency(MHz)</b>	<b>Field strength(microvolts/meter)</b>	<b>Measurement distance(meters)</b>
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

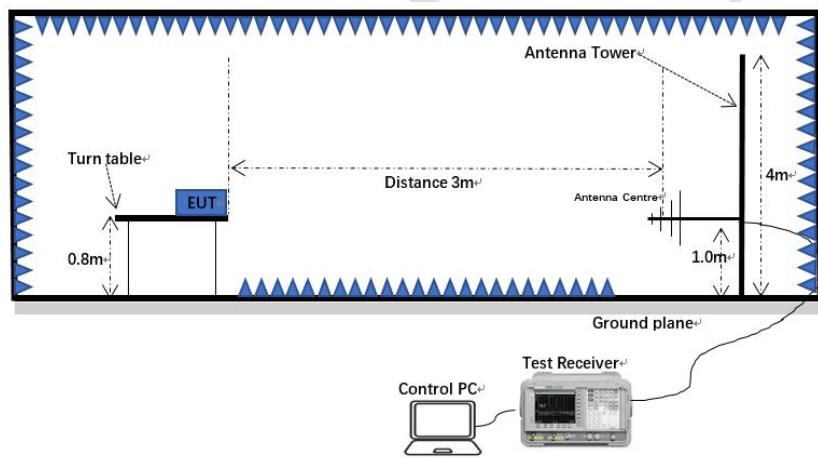
*Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.*

### 6.9.2 Test setup

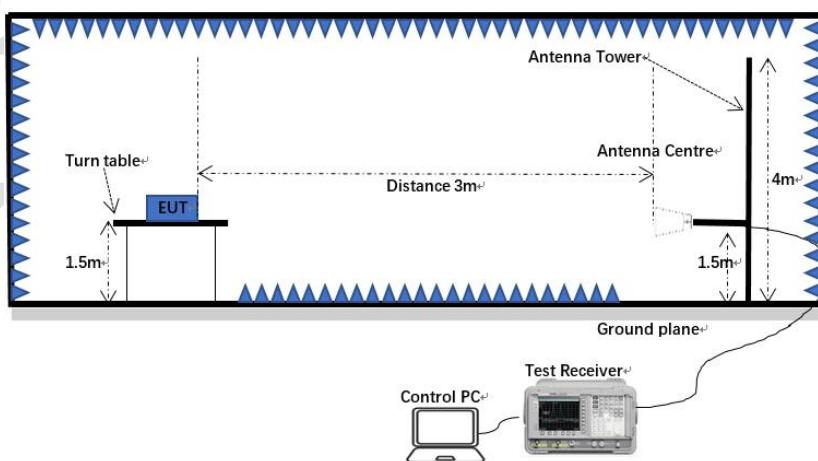
Below 1GHz:



30MHz-1GHz:



Above 1GHz:



### 6.9.3 Procedure

- a) For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b) For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c) The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d) The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g) If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h) Test the EUT in the lowest channel, the middle channel, the highest channel.
- i) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j) Repeat above procedures until all frequencies measured was complete.

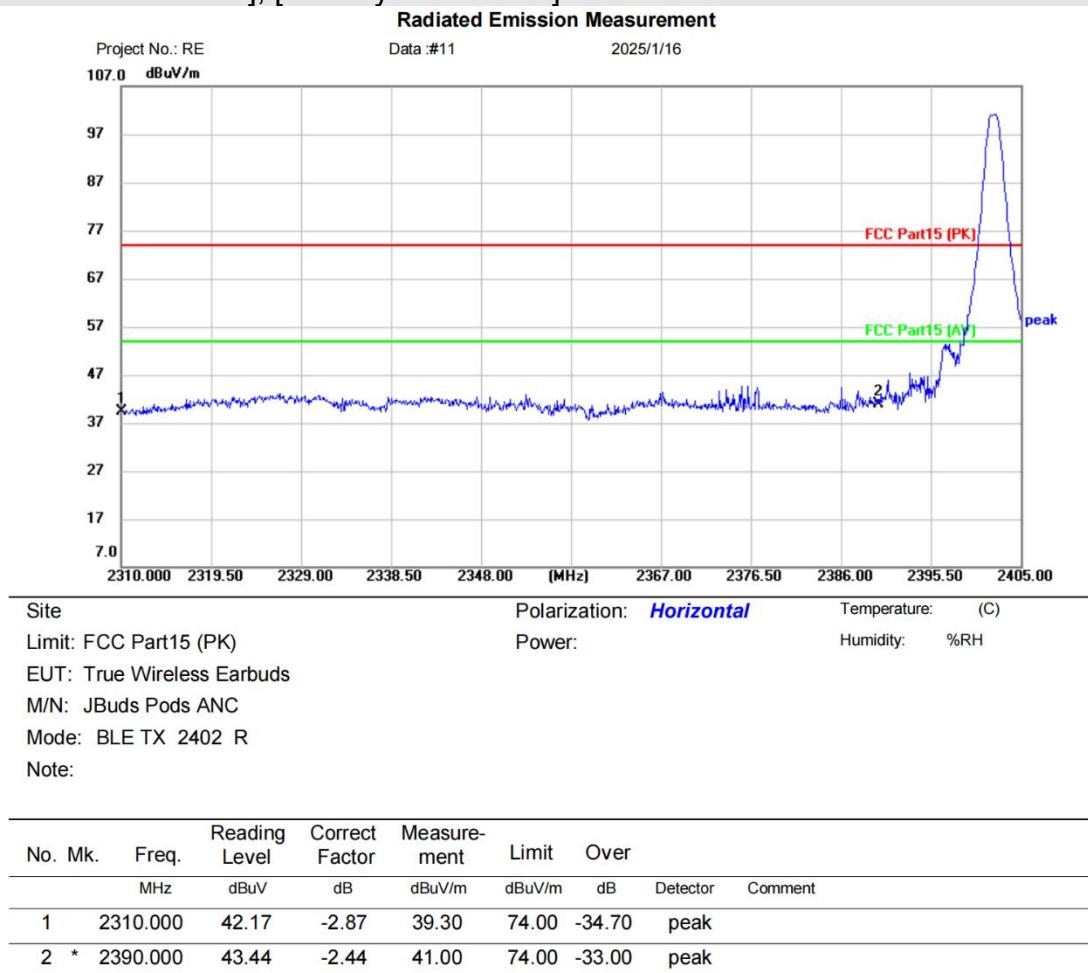
Note 1: Level (dBuV) = Reading (dBuV) + Factor (dB/m)

Note 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

### 6.9.4 Test data

*Remark: During the test, pre-scan the BLE1M/BLE2M mode, and found the BLE1M mode which it is worse case.*

[Test mode: TX low channel]; [Polarity: Horizontal]



\*:Maximum data    x:Over limit    !:over margin

(Reference Only)

Receiver: ESR\_1

Spectrum Analyzer: FSP40

**Test Result: Pass**

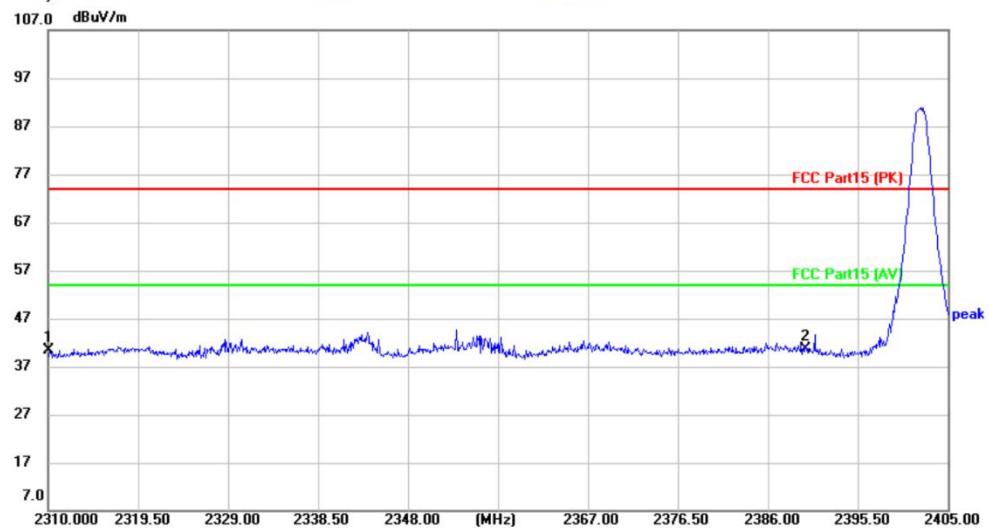
[Test mode:TX low channel]; [Polarity: Vertical]

**Radiated Emission Measurement**

Project No.: RE

Data #12

2025/1/16



Site

Polarization: **Vertical**

Temperature: (C)

Limit: FCC Part15 (PK)

Power:

Humidity: %RH

EUT: True Wireless Earbuds

M/N: JBuds Pods ANC

Mode: BLE TX 2402 R

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2310.000	43.21	-2.87	40.34	74.00	-33.66	peak	
2	*	2390.000	43.06	-2.44	40.62	74.00	-33.38	peak	

\*:Maximum data x:Over limit !:over margin

⟨Reference Only

Receiver: ESR\_1

Spectrum Analyzer: FSP40

**Test Result: Pass**

[**Test mode: TX High channel]; [Polarity: Horizontal]**
**Radiated Emission Measurement**

Project No.: RE

Data #13

2025/1/16



Site

Polarization: **Horizontal**

Temperature: (C)

Limit: FCC Part15 (PK)

Power:

Humidity: %RH

EUT: True Wireless Earbuds

M/N: JBuds Pods ANC

Mode: BLE TX 2480 R

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	2483.500	48.79	-2.91	45.88	74.00	-28.12	peak	
2		2500.000	42.87	-3.00	39.87	74.00	-34.13	peak	

\*:Maximum data x:Over limit !:over margin

⟨Reference Only

Receiver: ESR\_1

Spectrum Analyzer: FSP40

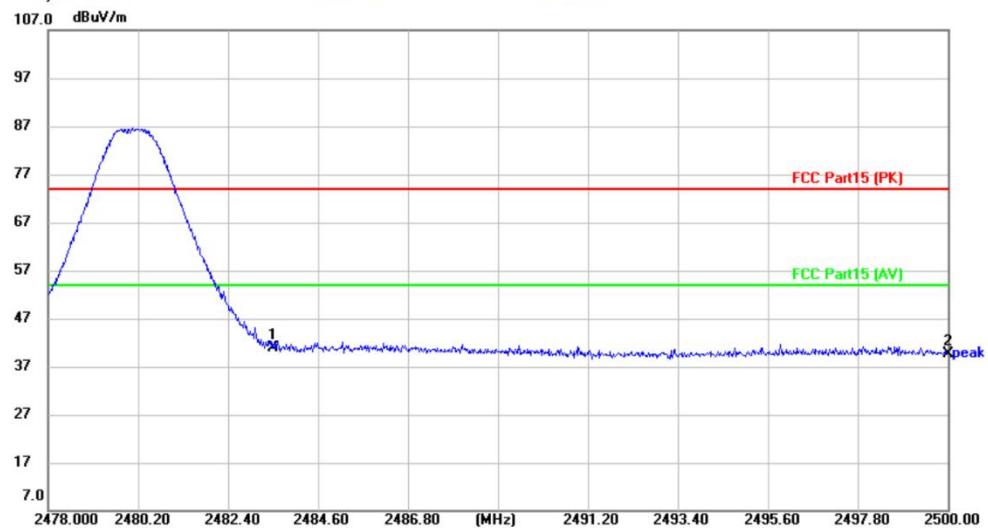
**Test Result: Pass**

[**Test mode:TX High channel]; [Polarity: Vertical]**
**Radiated Emission Measurement**

Project No.: RE

Data #:14

2025/1/16



Site

Polarization: **Vertical**

Temperature: (C)

Limit: FCC Part15 (PK)

Power:

Humidity: %RH

EUT: True Wireless Earbuds

M/N: JBuds Pods ANC

Mode: BLE TX 2480 R

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	2483.500	43.78	-2.91	40.87	74.00	-33.13	peak	
2		2500.000	42.63	-3.00	39.63	74.00	-34.37	peak	

\*:Maximum data x:Over limit !:over margin

⟨Reference Only

Receiver: ESR\_1

Spectrum Analyzer: FSP40

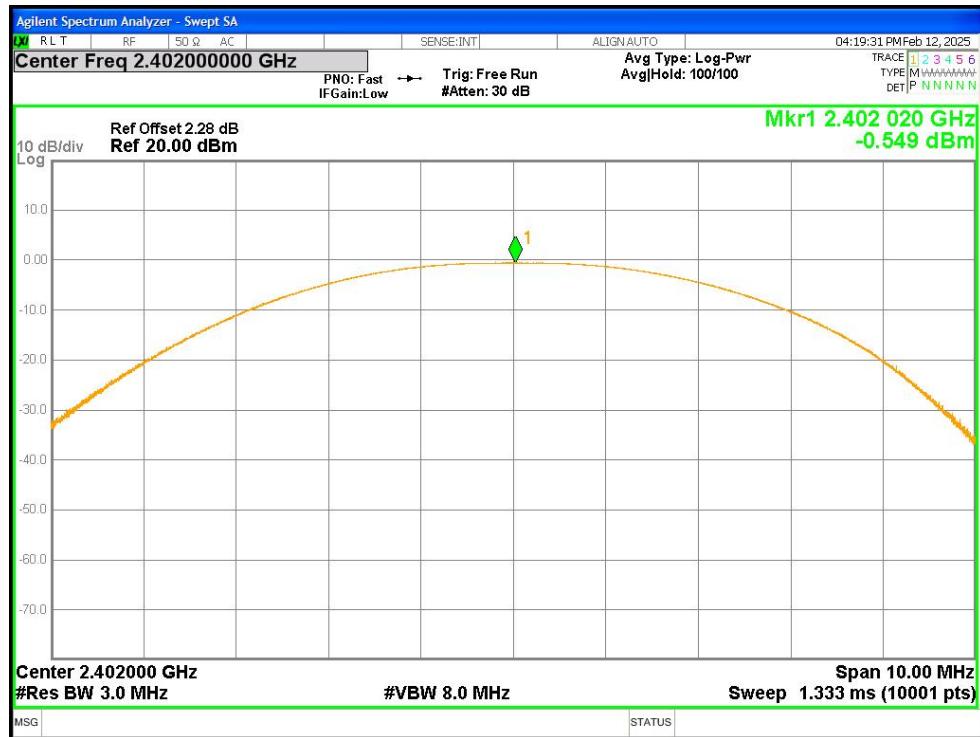
**Test Result: Pass**

## 7 Appendix A

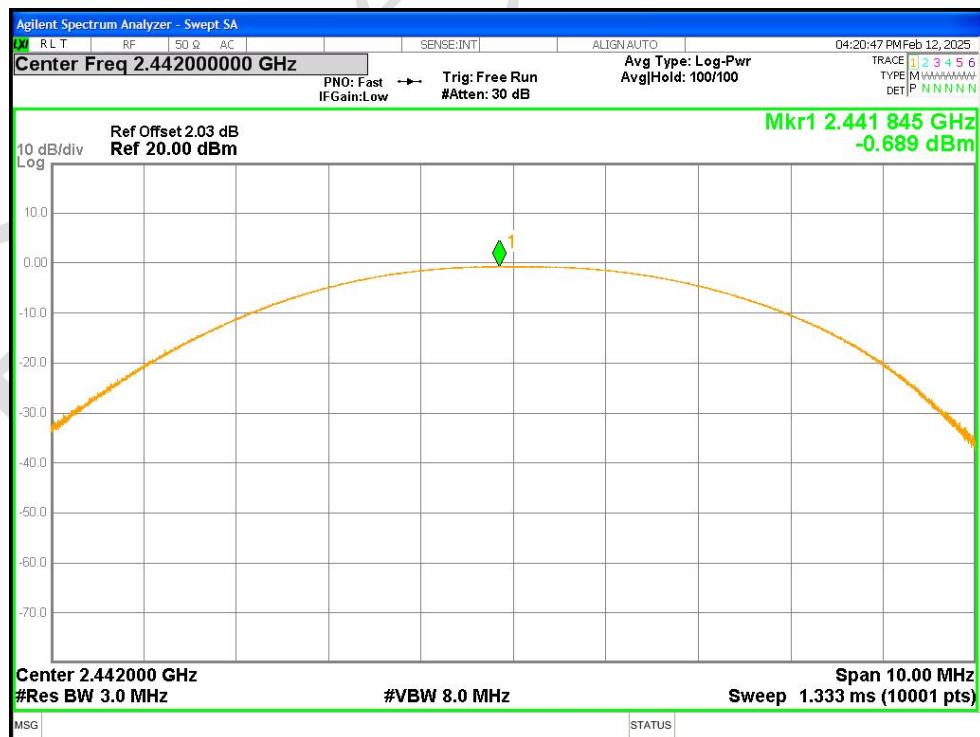
### 7.1 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-0.549	30	Pass
NVNT	BLE 1M	2442	Ant1	-0.689	30	Pass
NVNT	BLE 1M	2480	Ant1	-1.574	30	Pass
NVNT	BLE 2M	2402	Ant1	-0.514	30	Pass
NVNT	BLE 2M	2442	Ant1	-0.502	30	Pass
NVNT	BLE 2M	2480	Ant1	-1.33	30	Pass

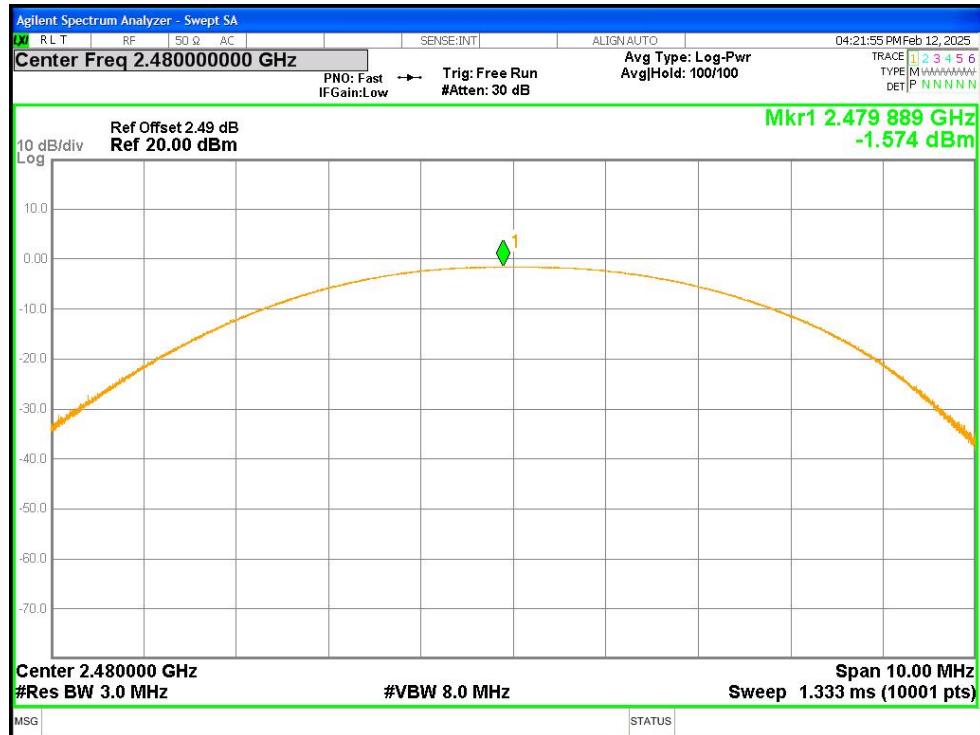
### Power NVNT BLE 1M 2402MHz Ant1



### Power NVNT BLE 1M 2442MHz Ant1



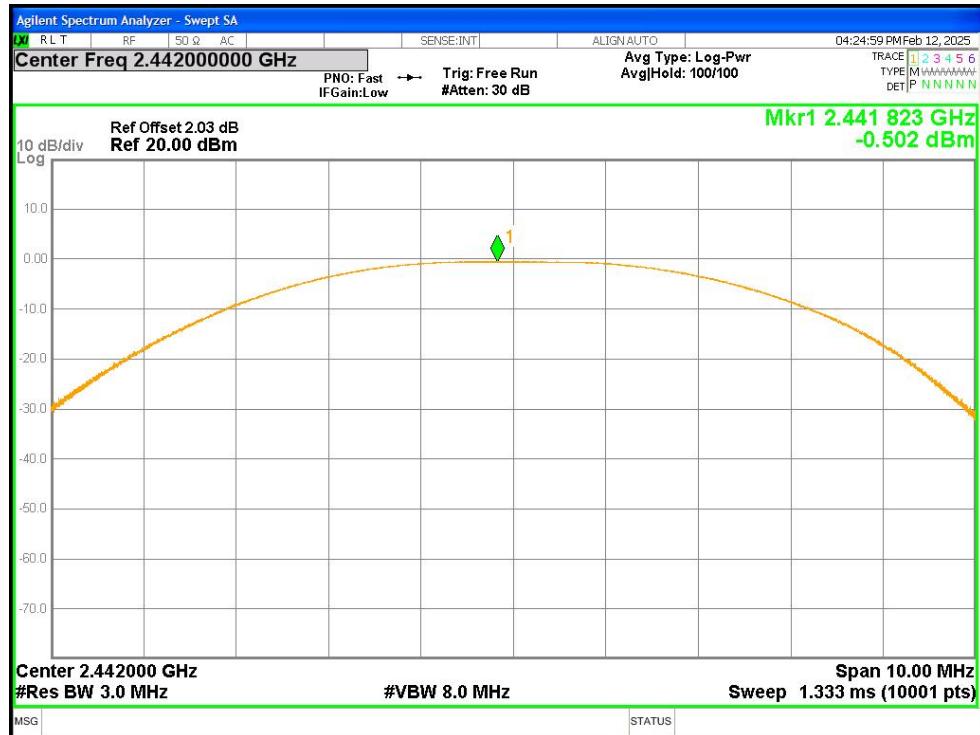
## Power NVNT BLE 1M 2480MHz Ant1



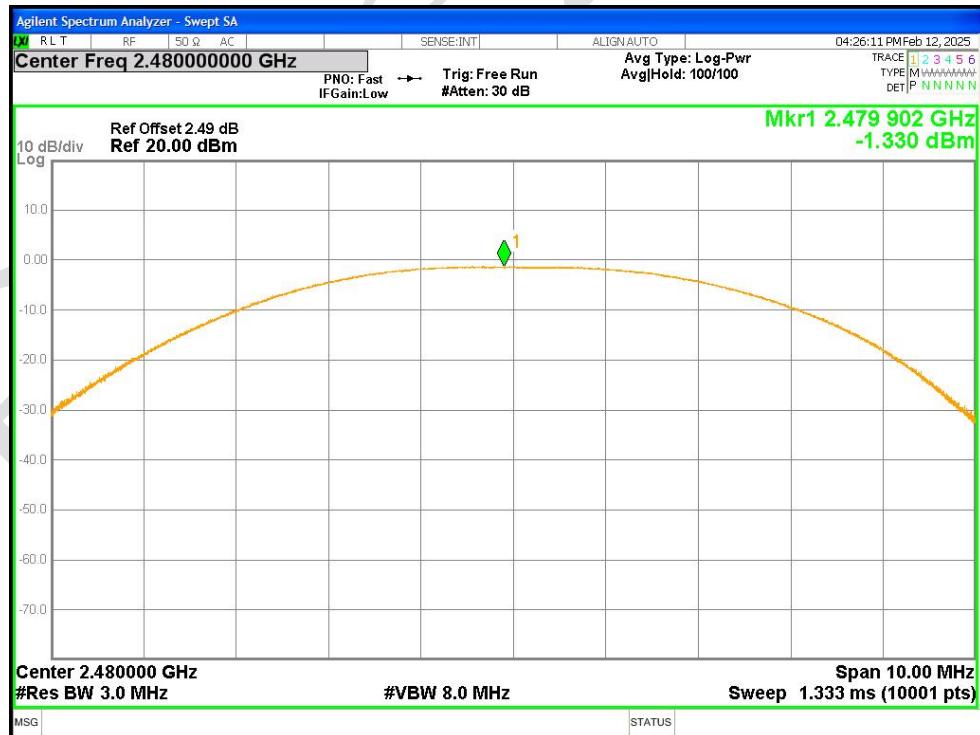
## Power NVNT BLE 2M 2402MHz Ant1



## Power NVNT BLE 2M 2442MHz Ant1



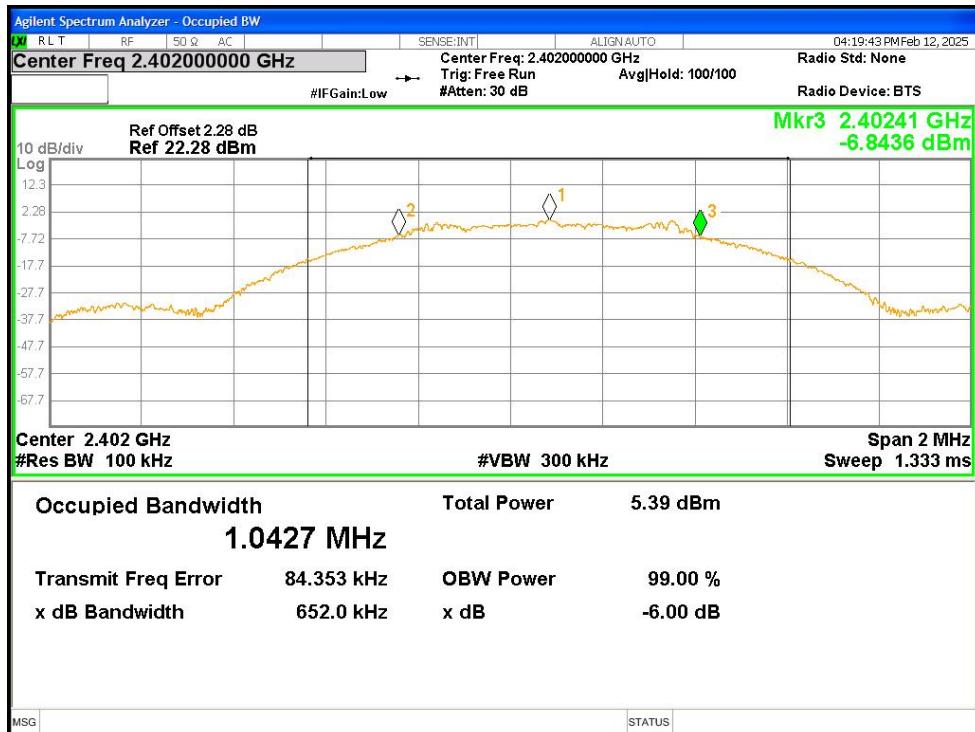
## Power NVNT BLE 2M 2480MHz Ant1



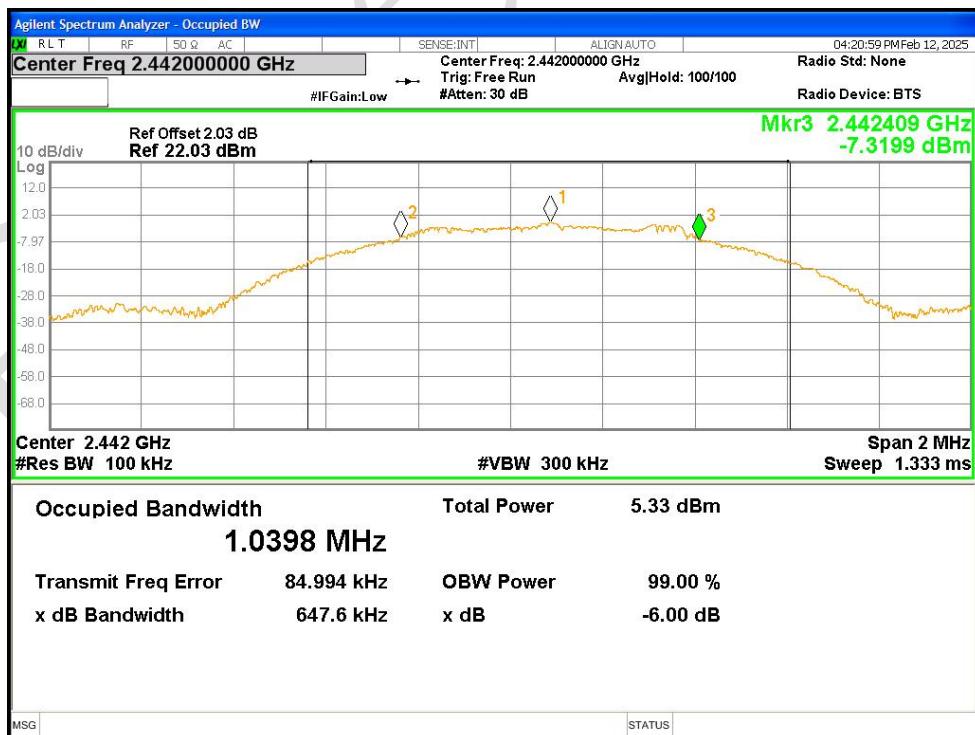
## 7.2 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.652	0.5	Pass
NVNT	BLE 1M	2442	Ant1	0.648	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.649	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.096	0.5	Pass
NVNT	BLE 2M	2442	Ant1	1.138	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.092	0.5	Pass

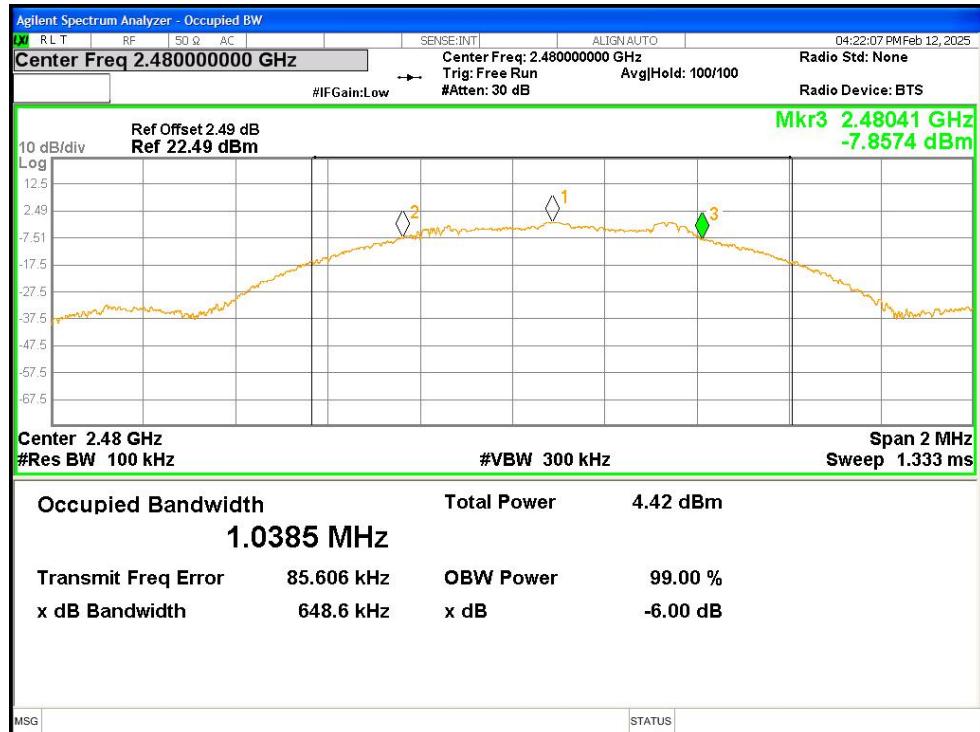
### -6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



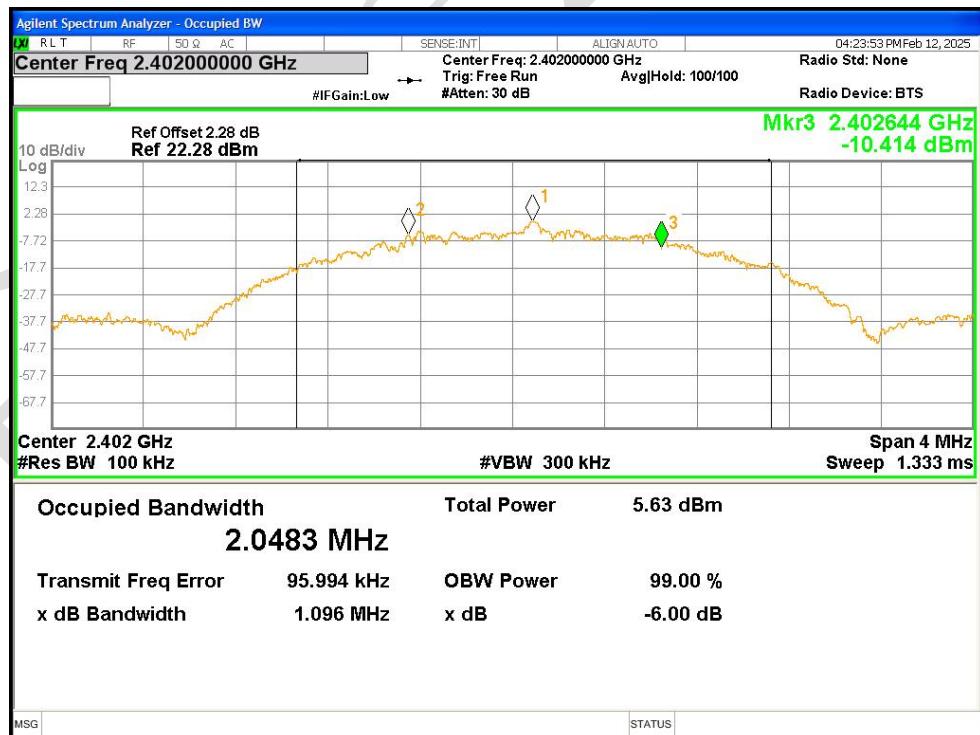
### -6dB Bandwidth NVNT BLE 1M 2442MHz Ant1



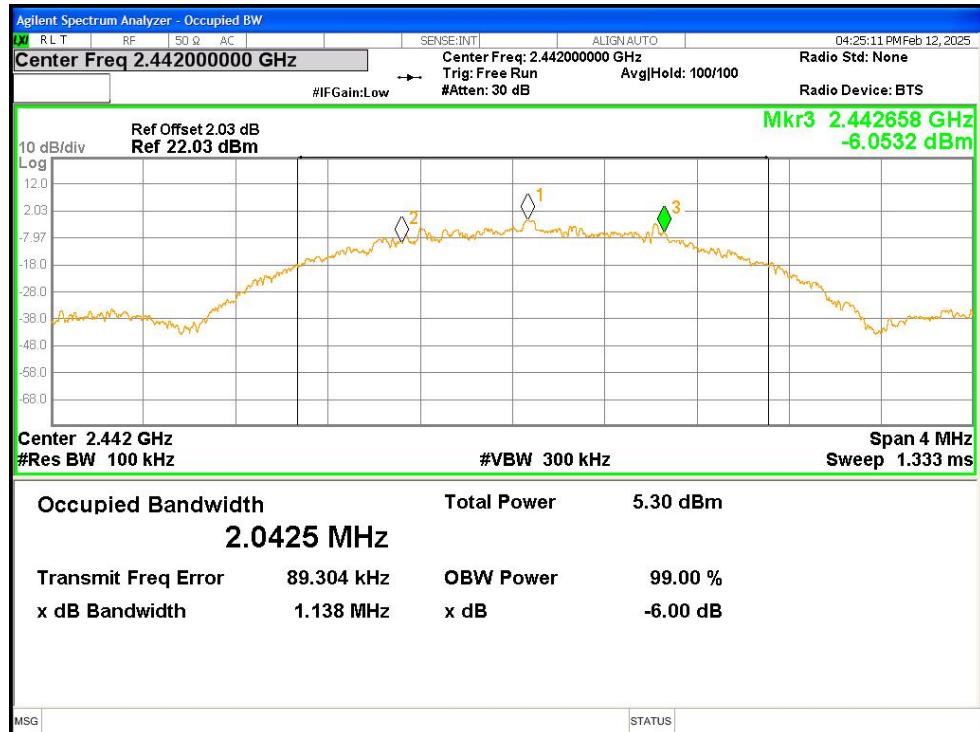
### -6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



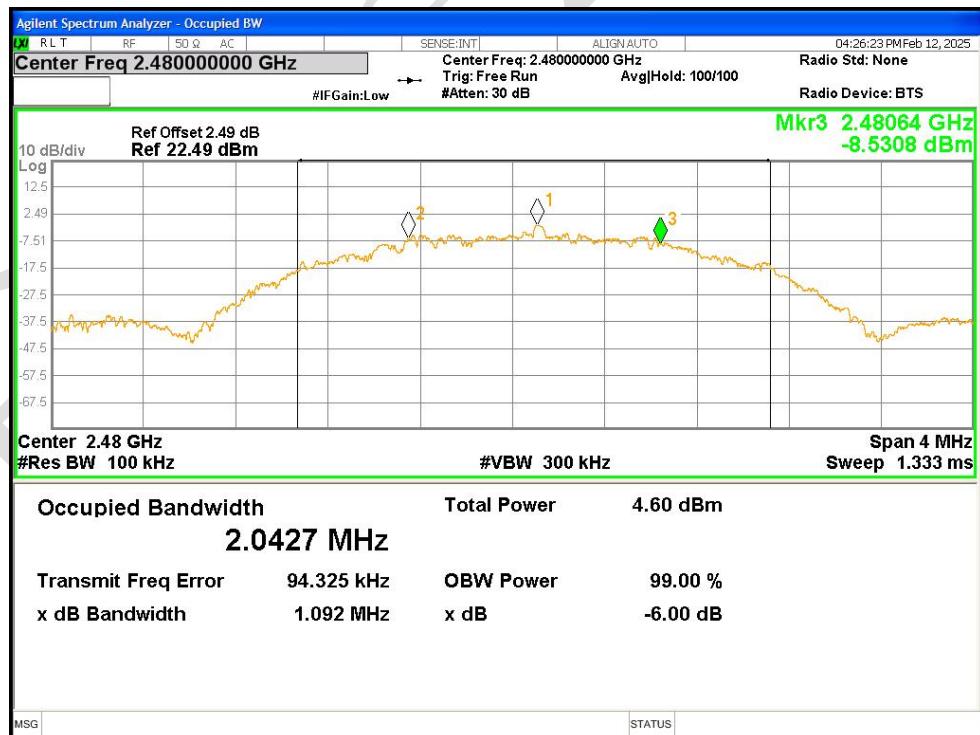
### -6dB Bandwidth NVNT BLE 2M 2402MHz Ant1



### -6dB Bandwidth NVNT BLE 2M 2442MHz Ant1

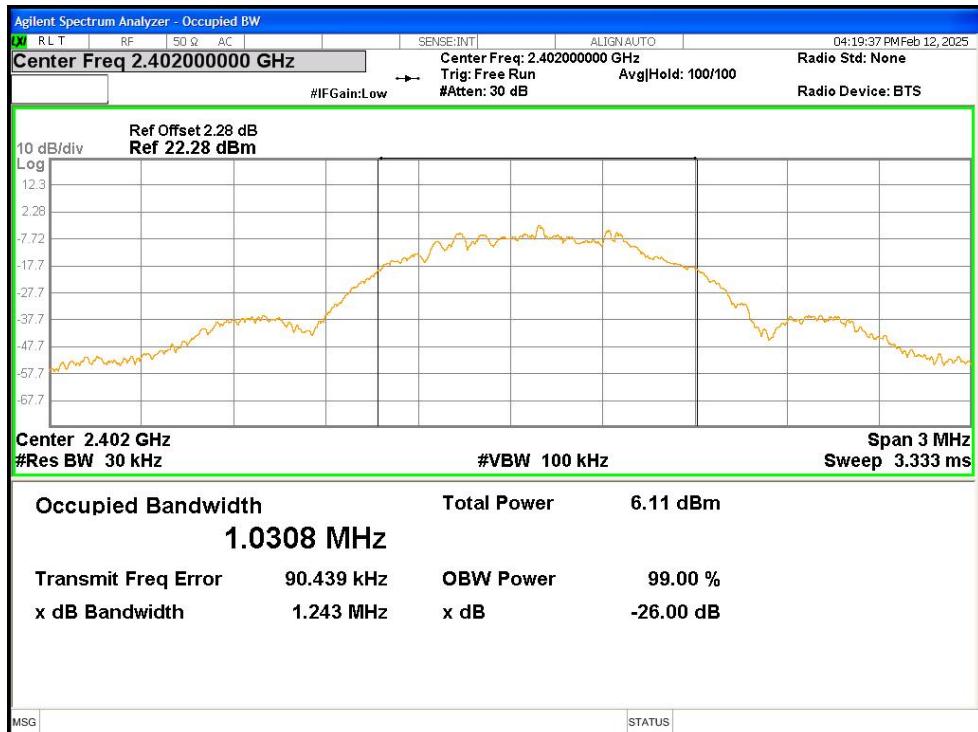
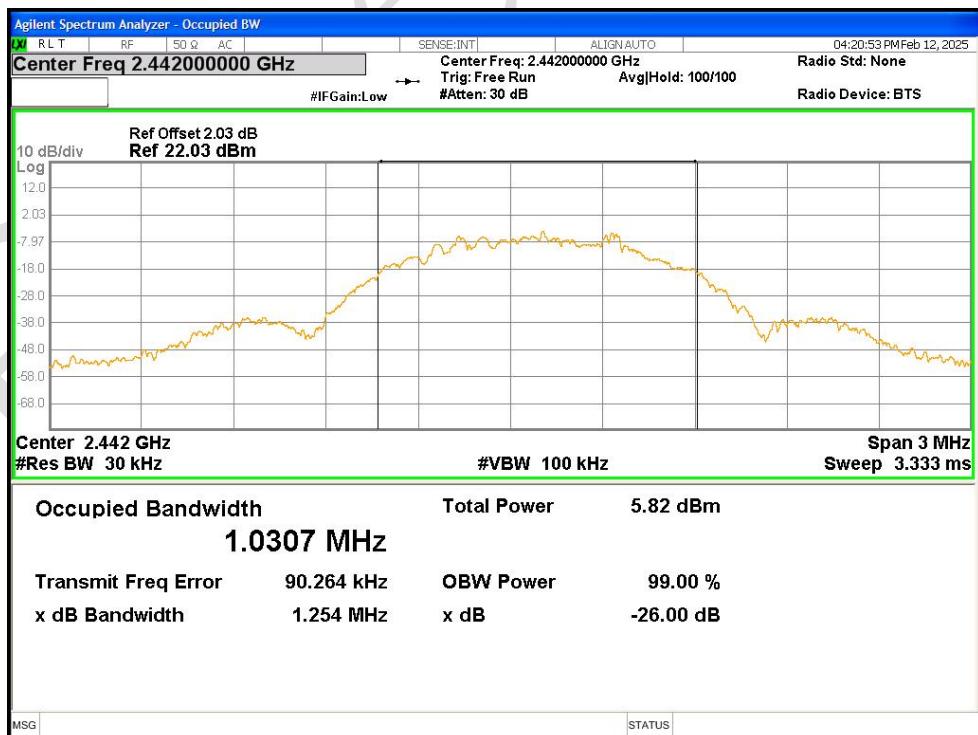


### -6dB Bandwidth NVNT BLE 2M 2480MHz Ant1

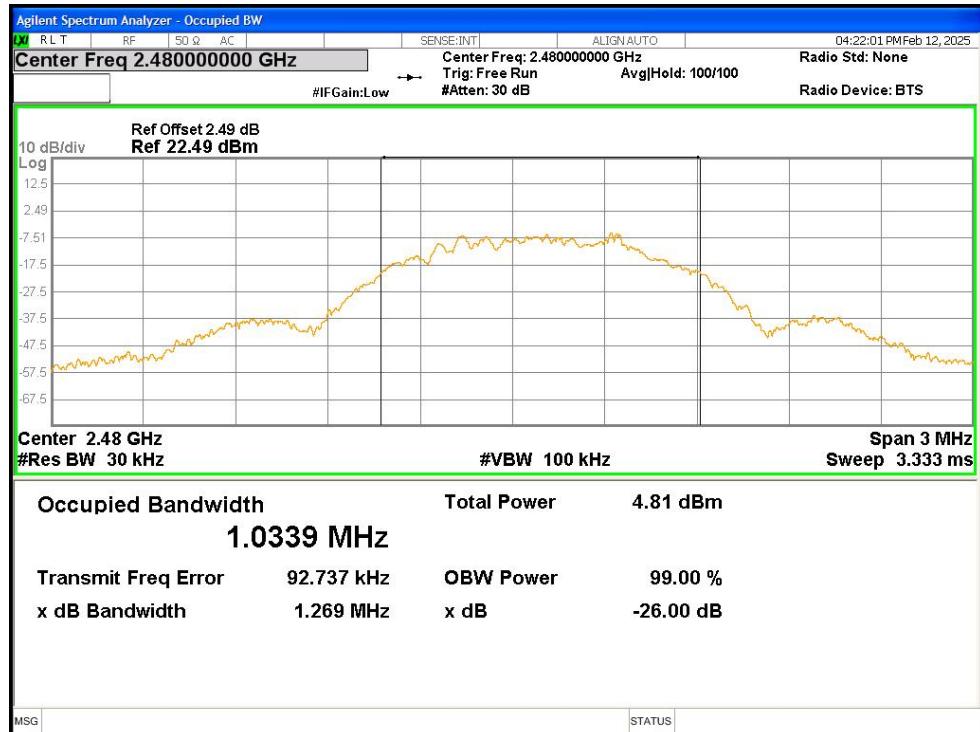


### 7.3 Occupied Channel Bandwidth

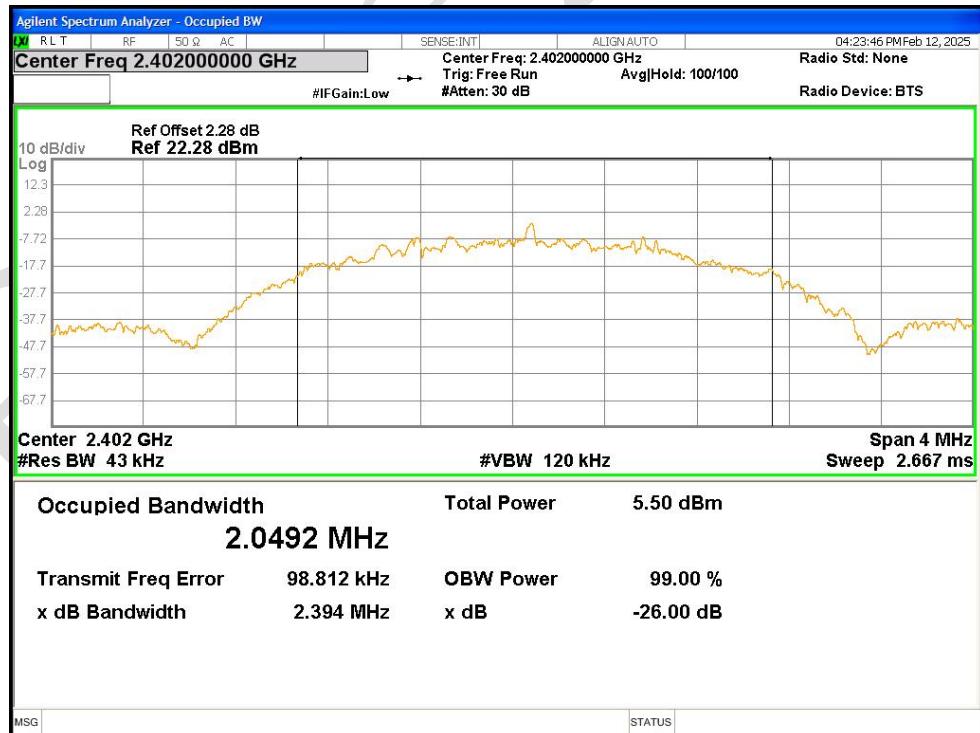
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.0308
NVNT	BLE 1M	2442	Ant1	1.0307
NVNT	BLE 1M	2480	Ant1	1.0339
NVNT	BLE 2M	2402	Ant1	2.0492
NVNT	BLE 2M	2442	Ant1	2.0526
NVNT	BLE 2M	2480	Ant1	2.0464

**OBW NVNT BLE 1M 2402MHz Ant1**

**OBW NVNT BLE 1M 2442MHz Ant1**


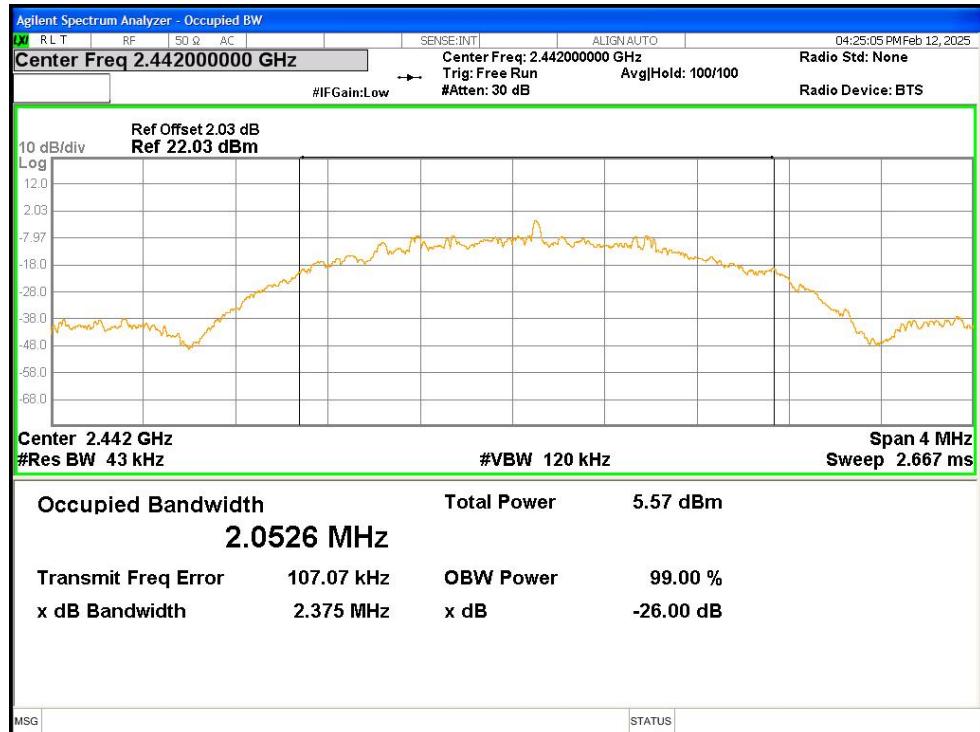
### OBW NVNT BLE 1M 2480MHz Ant1



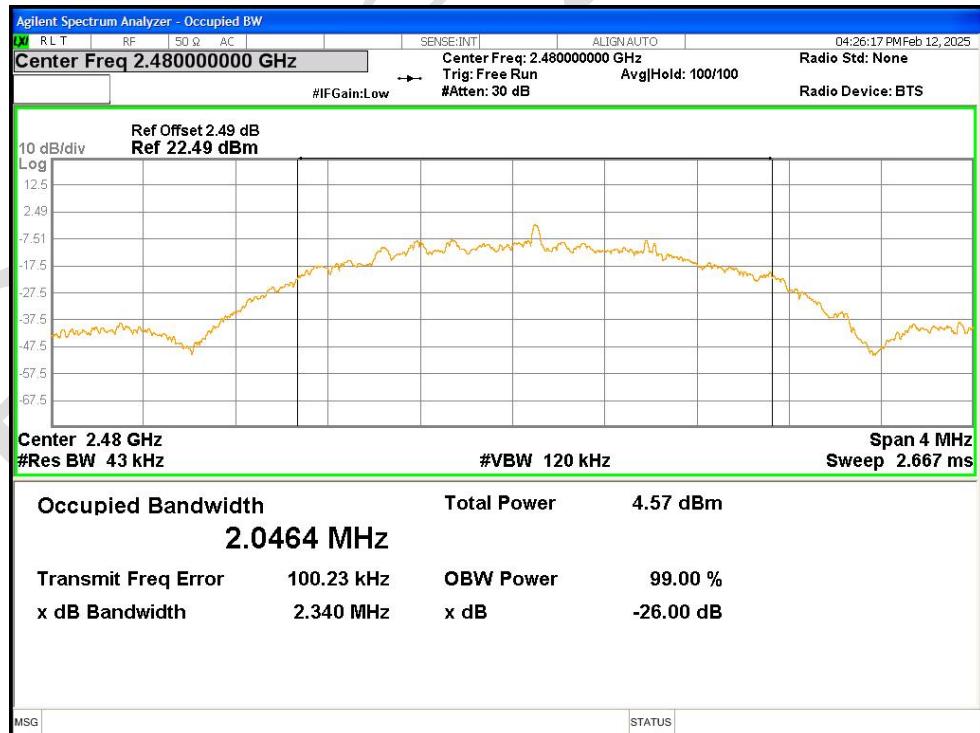
### OBW NVNT BLE 2M 2402MHz Ant1



### OBW NVNT BLE 2M 2442MHz Ant1



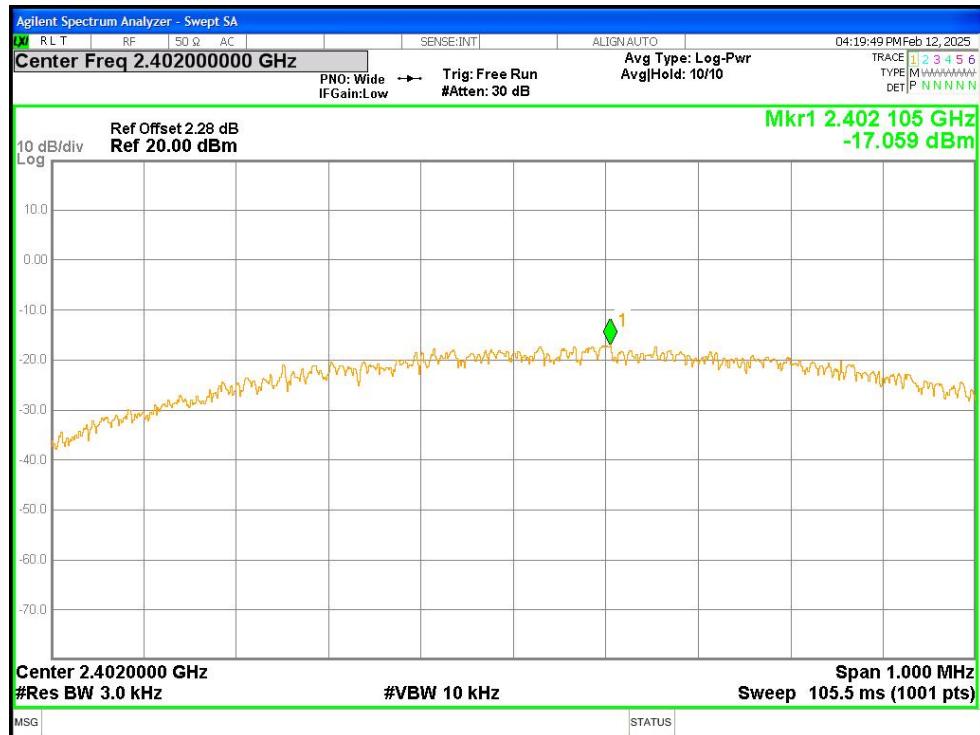
### OBW NVNT BLE 2M 2480MHz Ant1



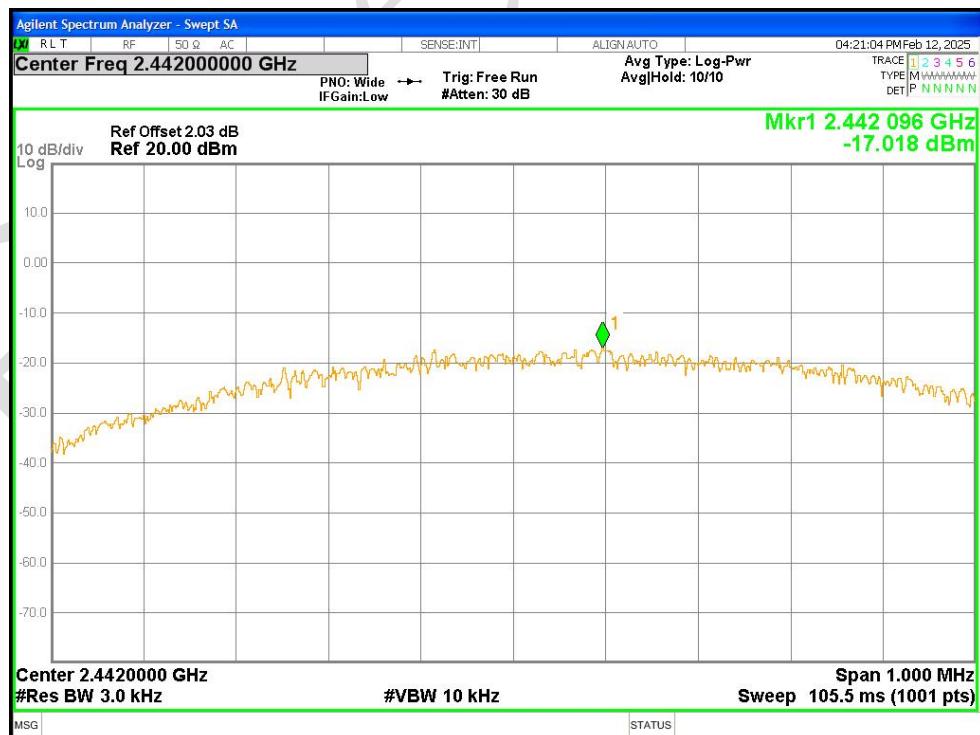
## 7.4 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-17.059	8	Pass
NVNT	BLE 1M	2442	Ant1	-17.018	8	Pass
NVNT	BLE 1M	2480	Ant1	-18.038	8	Pass
NVNT	BLE 2M	2402	Ant1	-20.014	8	Pass
NVNT	BLE 2M	2442	Ant1	-18.426	8	Pass
NVNT	BLE 2M	2480	Ant1	-19.725	8	Pass

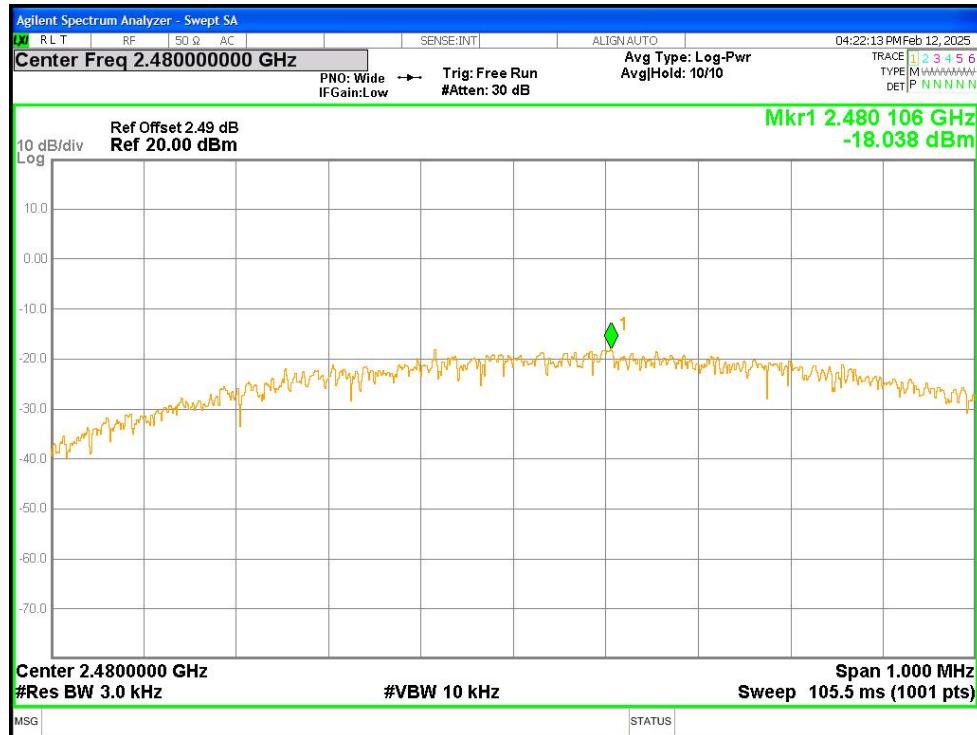
### PSD NVNT BLE 1M 2402MHz Ant1



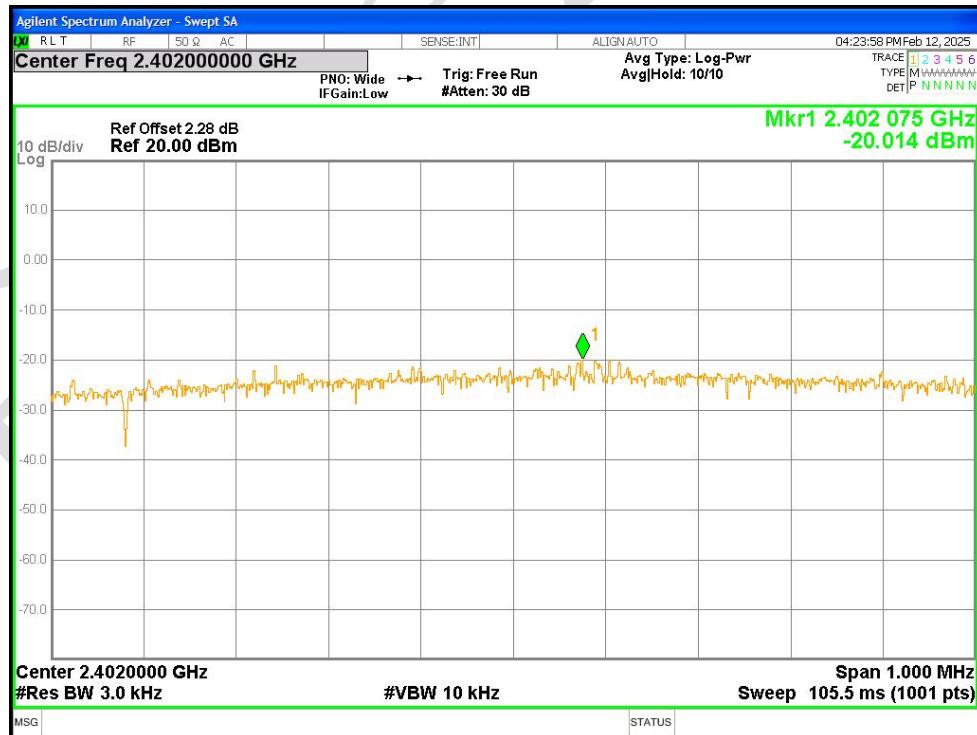
### PSD NVNT BLE 1M 2442MHz Ant1



### PSD NVNT BLE 1M 2480MHz Ant1



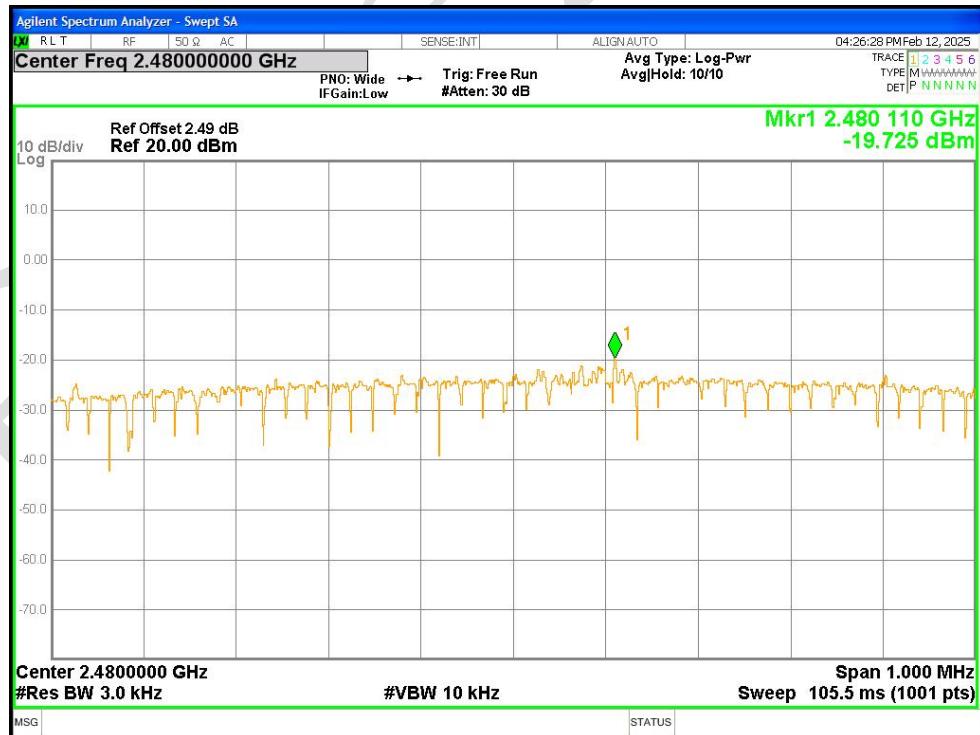
### PSD NVNT BLE 2M 2402MHz Ant1



### PSD NVNT BLE 2M 2442MHz Ant1



### PSD NVNT BLE 2M 2480MHz Ant1



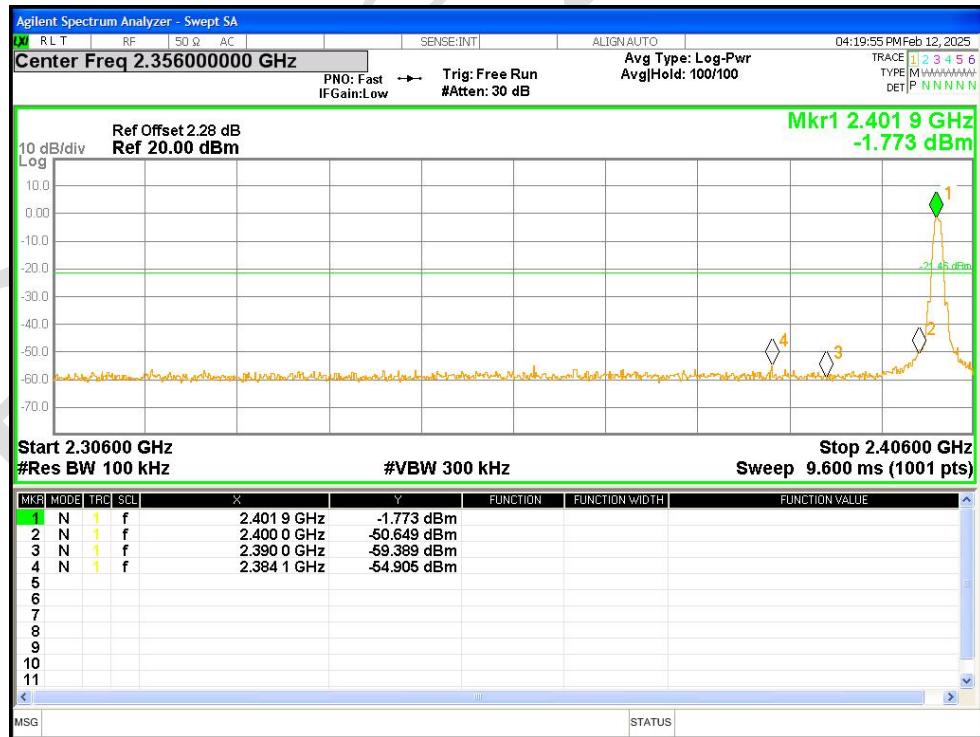
## 7.5 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-53.44	-20	Pass
NVNT	BLE 1M	2480	Ant1	-51.47	-20	Pass
NVNT	BLE 2M	2402	Ant1	-52.69	-20	Pass
NVNT	BLE 2M	2480	Ant1	-50.92	-20	Pass

### Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



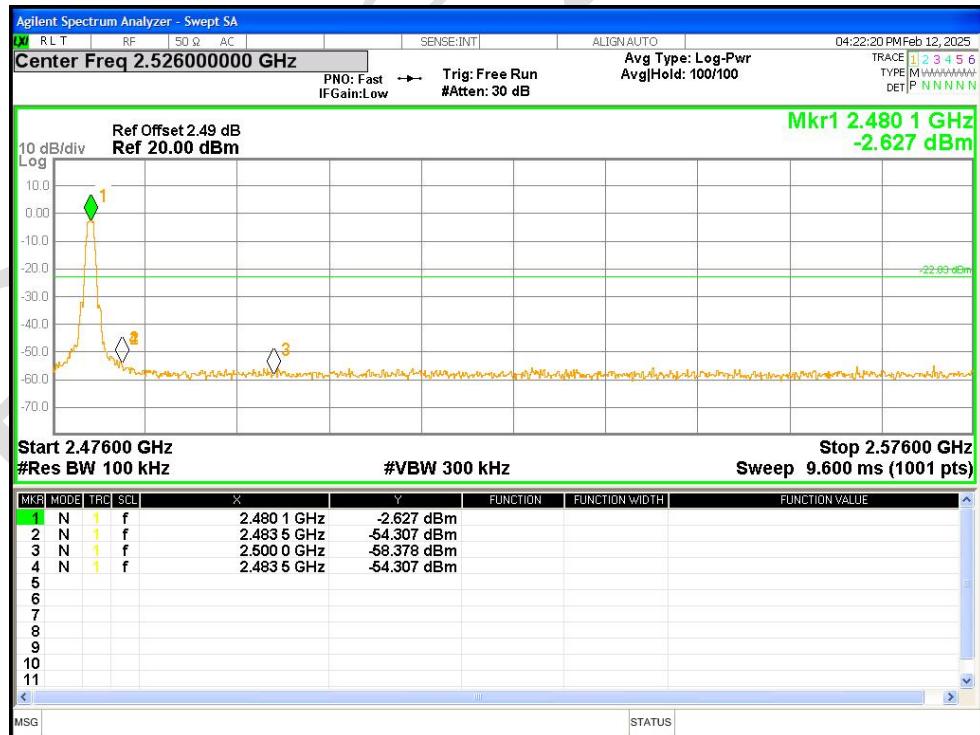
### Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



### Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



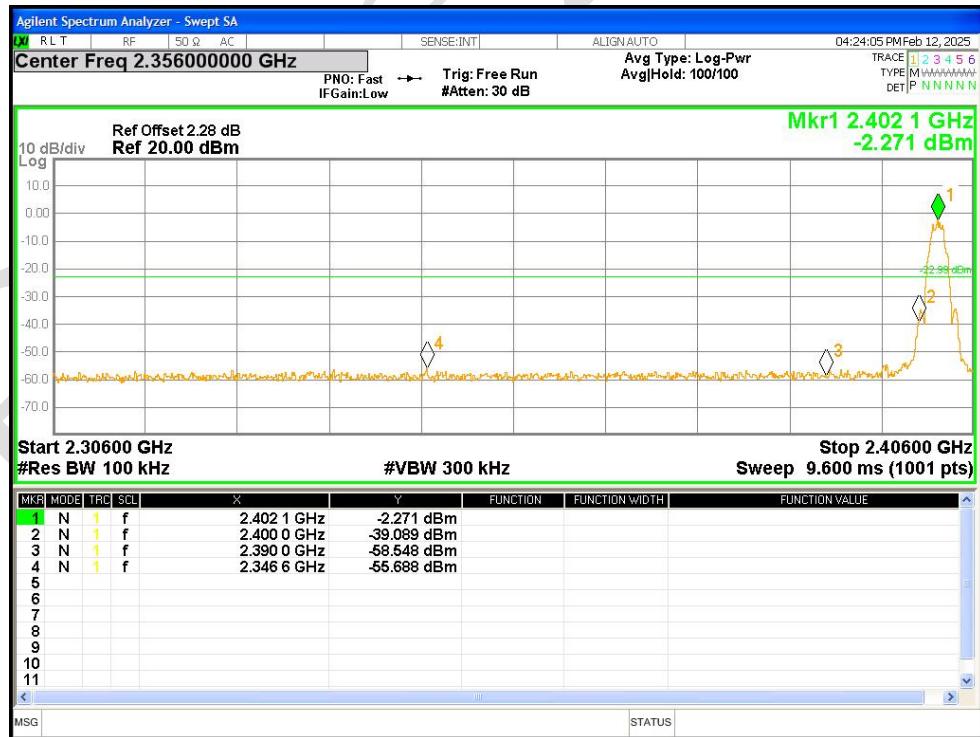
### Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



### Band Edge NVNT BLE 2M 2402MHz Ant1 Ref



### Band Edge NVNT BLE 2M 2402MHz Ant1 Emission



### Band Edge NVNT BLE 2M 2480MHz Ant1 Ref



### Band Edge NVNT BLE 2M 2480MHz Ant1 Emission

