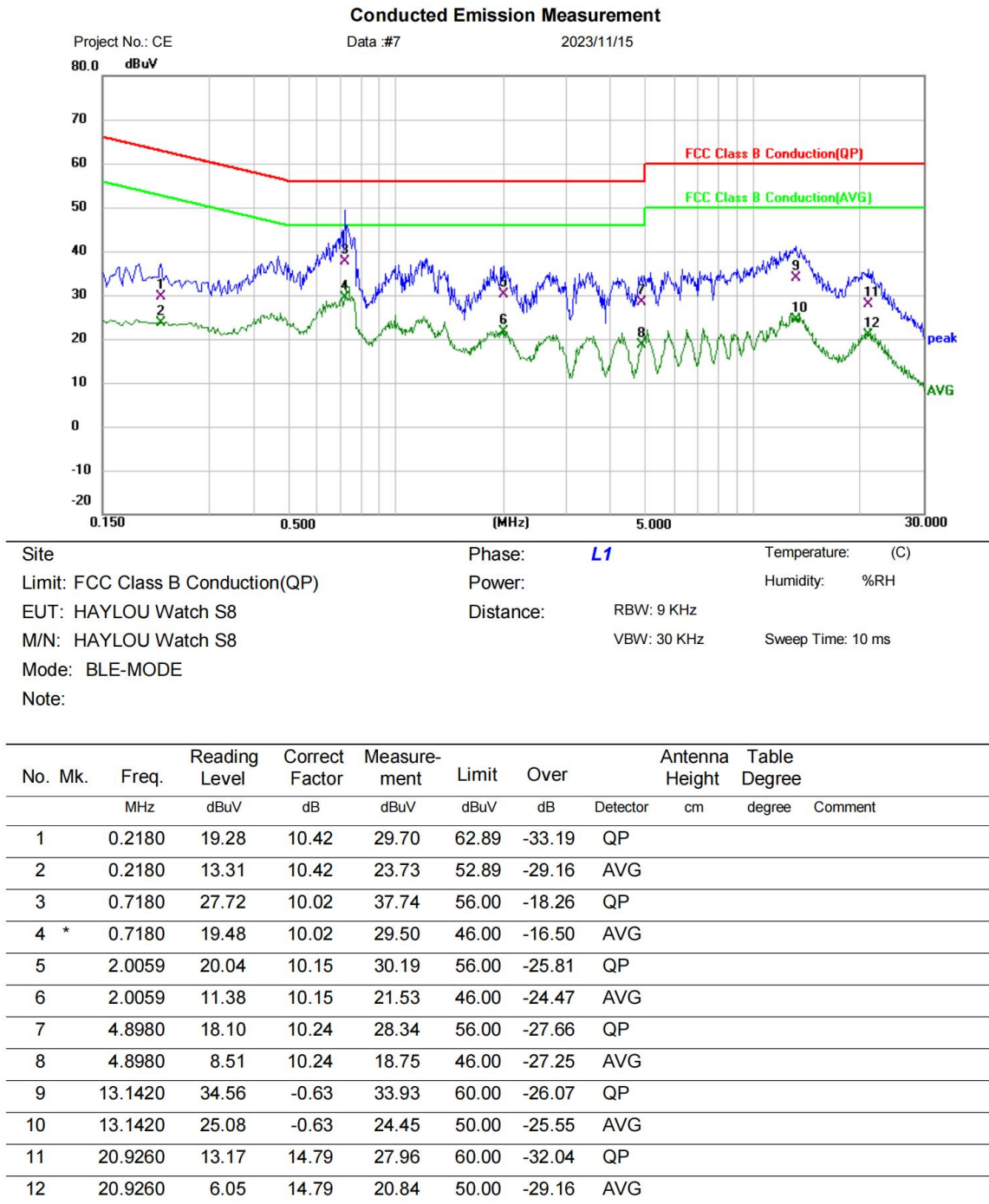


14.4 TEST DATA

[TestMode: TX mode]; [Line: Line];[Power:120V/60Hz]



Test Result: Pass

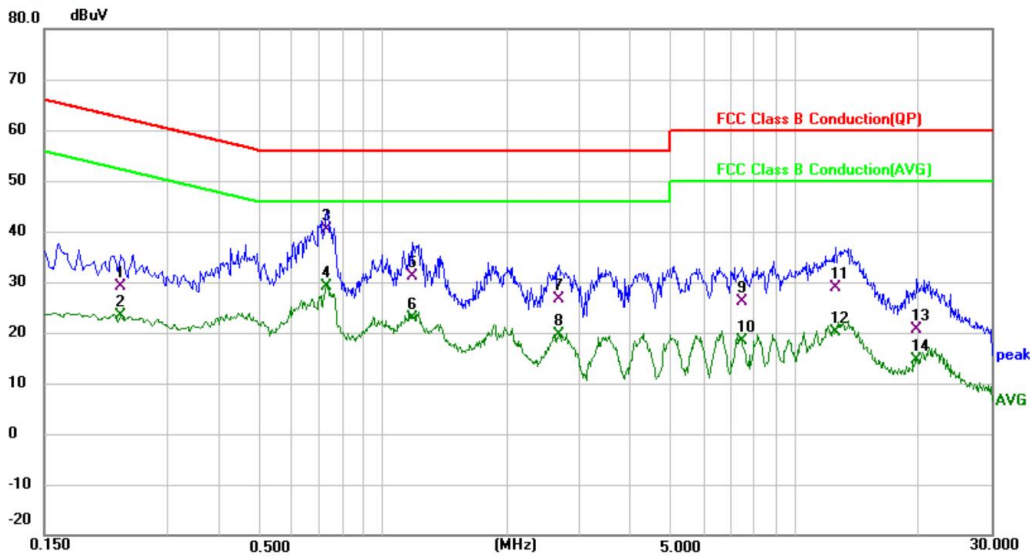
[TestMode: TX mdoe]; [Line: Nutral];[Power:120V/60Hz]

Conducted Emission Measurement

Project No.: CE

Data :#8

2023/11/15



Site

Phase: **N**

Temperature: (C)

Limit: FCC Class B Conduction(QP)

Power:

Humidity: %RH

EUT: HAYLOU Watch S8

Distance:

RBW: 9 KHz

Sweep Time: 10 ms

M/N: HAYLOU Watch S8

VBW: 30 KHz

Mode: BLE-MODE

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1		0.2300	18.73	10.29	29.02	62.45	-33.43	QP		
2		0.2300	13.07	10.29	23.36	52.45	-29.09	AVG		
3	*	0.7300	30.45	9.95	40.40	56.00	-15.60	QP		
4		0.7300	19.26	9.95	29.21	46.00	-16.79	AVG		
5		1.1820	21.12	9.89	31.01	56.00	-24.99	QP		
6		1.1820	13.01	9.89	22.90	46.00	-23.10	AVG		
7		2.6780	16.48	10.04	26.52	56.00	-29.48	QP		
8		2.6780	9.49	10.04	19.53	46.00	-26.47	AVG		
9		7.4300	15.04	11.07	26.11	60.00	-33.89	QP		
10		7.4300	7.23	11.07	18.30	50.00	-31.70	AVG		
11		12.5740	29.11	-0.29	28.82	60.00	-31.18	QP		
12		12.5740	20.52	-0.29	20.23	50.00	-29.77	AVG		

Test Result: Pass

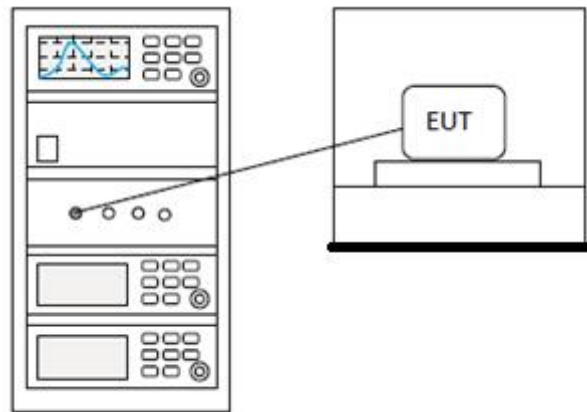
15 CONDUCTED BAND EDGES MEASUREMENT

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	William
Temperature	25°C
Humidity	60%

15.1 LIMITS

Limit:	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)).
---------------	---

15.2 BLOCK DIAGRAM OF TEST SETUP



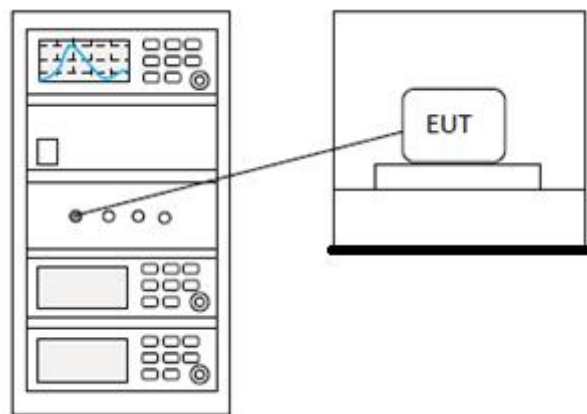
15.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

16 MINIMUM 6DB BANDWIDTH

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.7
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	William
Temperature	25°C
Humidity	60%

16.1 BLOCK DIAGRAM OF TEST SETUP



16.2 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

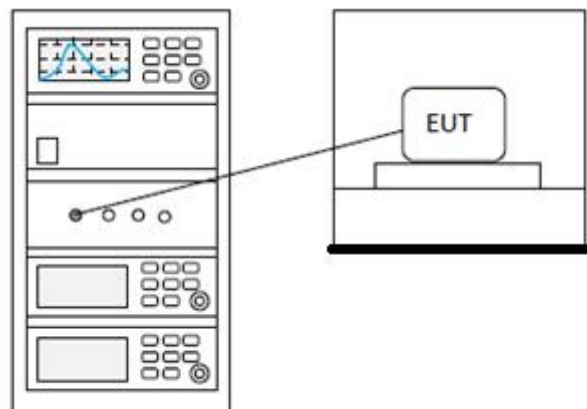
17 CONDUCTED PEAK OUTPUT POWER

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.5
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	William
Temperature	25°C
Humidity	60%

17.1 LIMITS

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥ 50 hopping channels
	0.25 for $25 \leq \text{hopping channels} < 50$
	1 for digital modulation
2400-2483.5	1 for ≥ 75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

17.2 BLOCK DIAGRAM OF TEST SETUP



17.3 EST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

BlueAsia

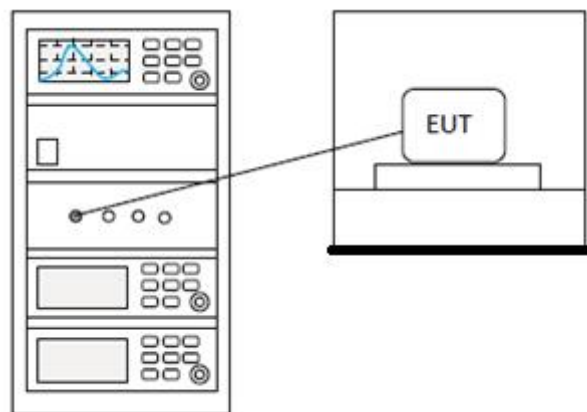
18 POWER SPECTRUM DENSITY

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 11.10.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	William
Temperature	25°C
Humidity	60%

18.1 LIMITS

Limit: $\leq 8\text{dBm}$ in any 3 kHz band during any time interval of continuous transmission

18.2 BLOCK DIAGRAM OF TEST SETUP



18.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

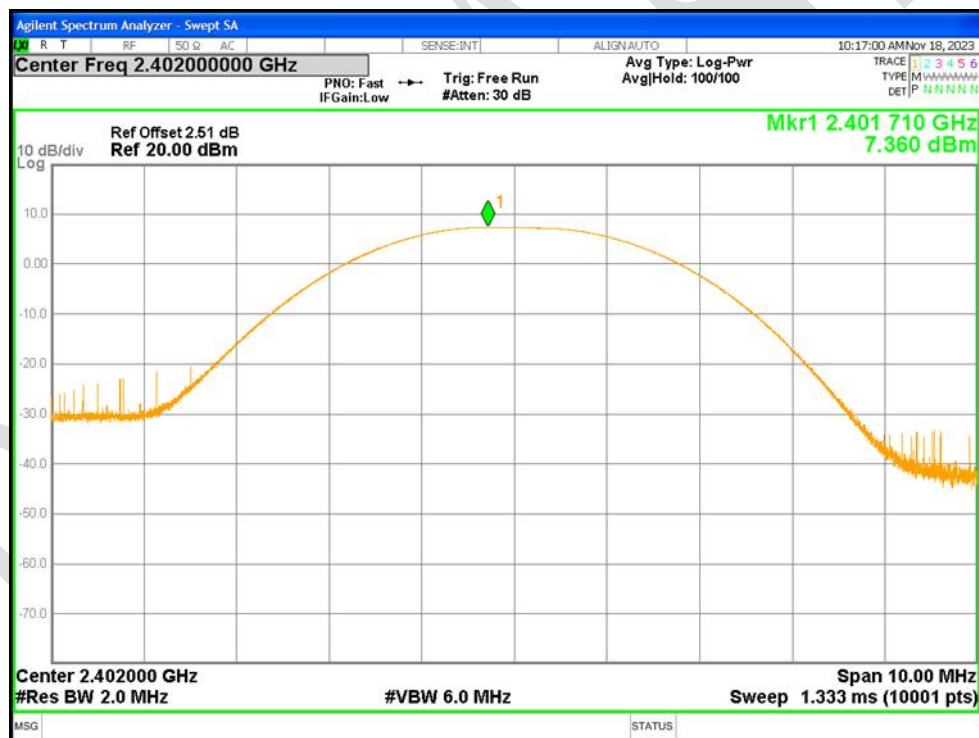
19 APPENDIX

Appendix1

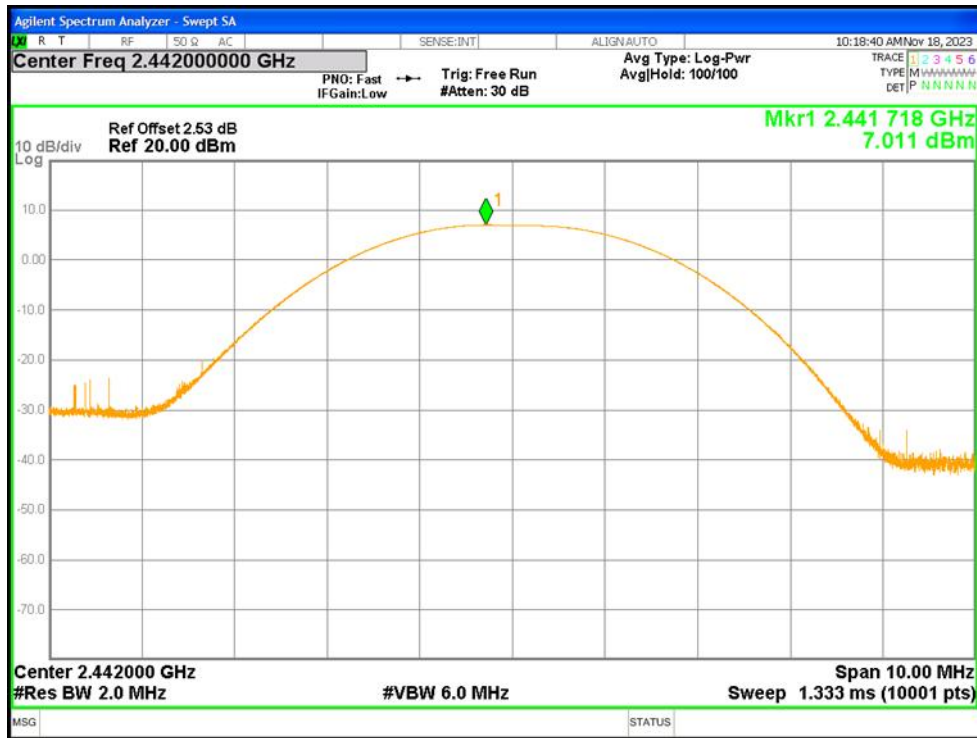
19.1 MAXIMUM CONDUCTED OUTPUT POWER

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	7.36	30	Pass
NVNT	BLE 1M	2442	Ant1	7.011	30	Pass
NVNT	BLE 1M	2480	Ant1	6.554	30	Pass
NVNT	BLE 2M	2402	Ant1	7.417	30	Pass
NVNT	BLE 2M	2442	Ant1	7.177	30	Pass
NVNT	BLE 2M	2480	Ant1	6.765	30	Pass

Power NVNT BLE 1M 2402MHz Ant1



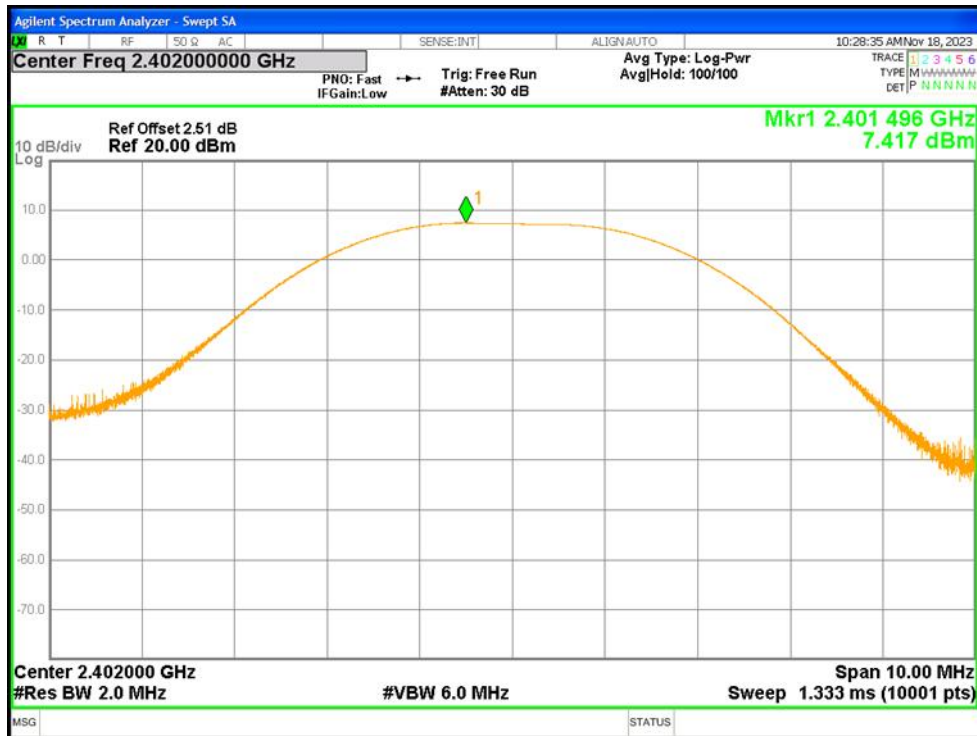
Power NVNT BLE 1M 2442MHz Ant1



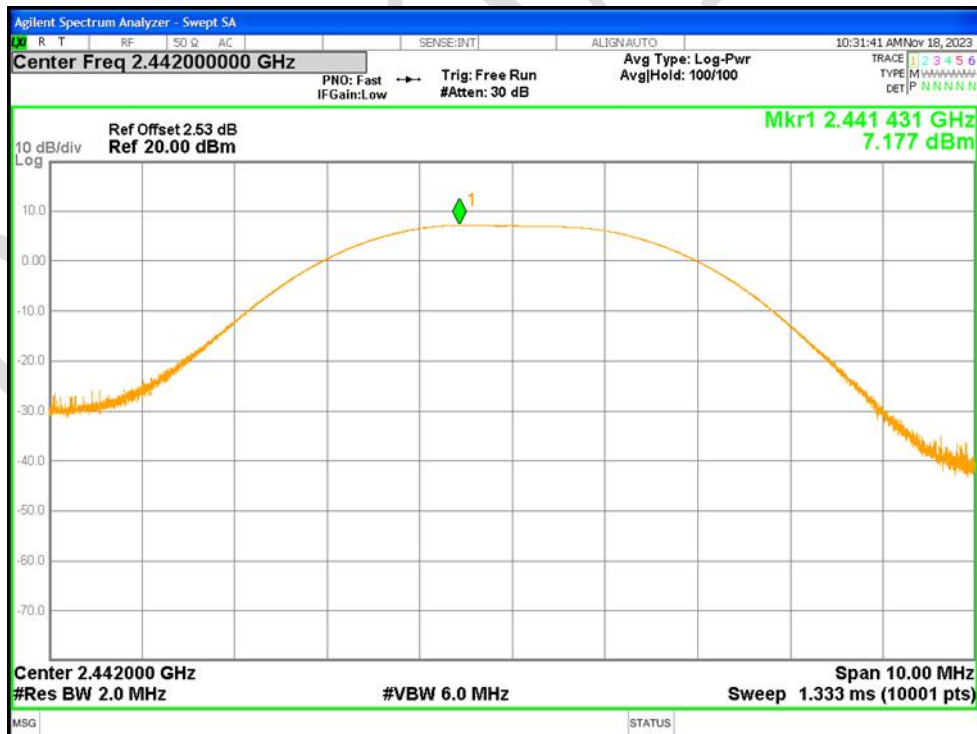
Power NVNT BLE 1M 2480MHz Ant1



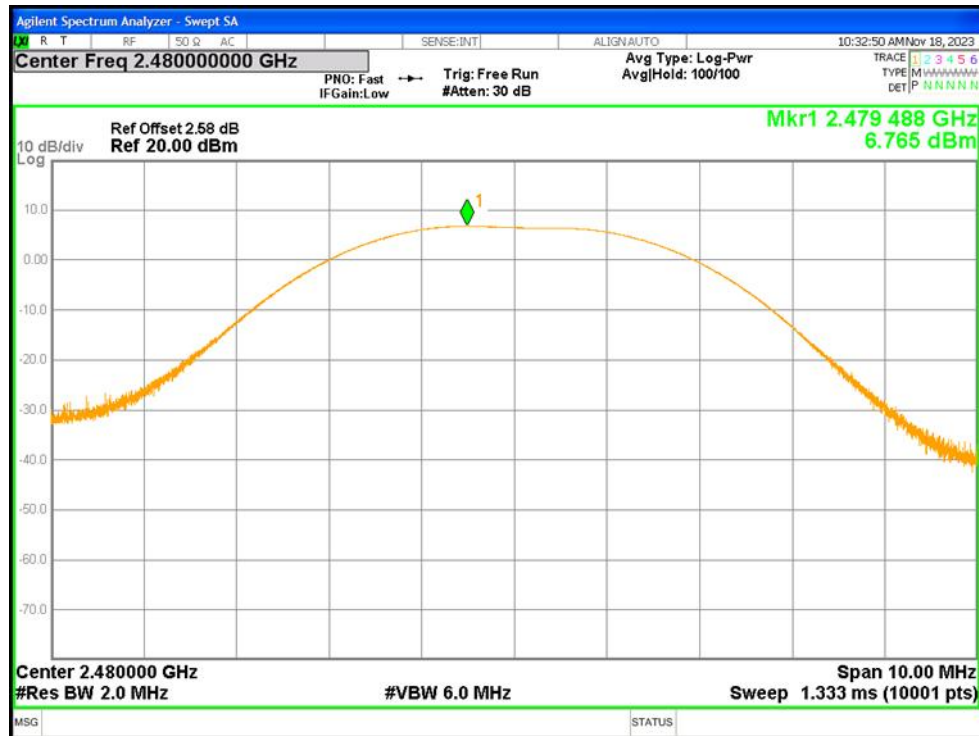
Power NVNT BLE 2M 2402MHz Ant1



Power NVNT BLE 2M 2442MHz Ant1



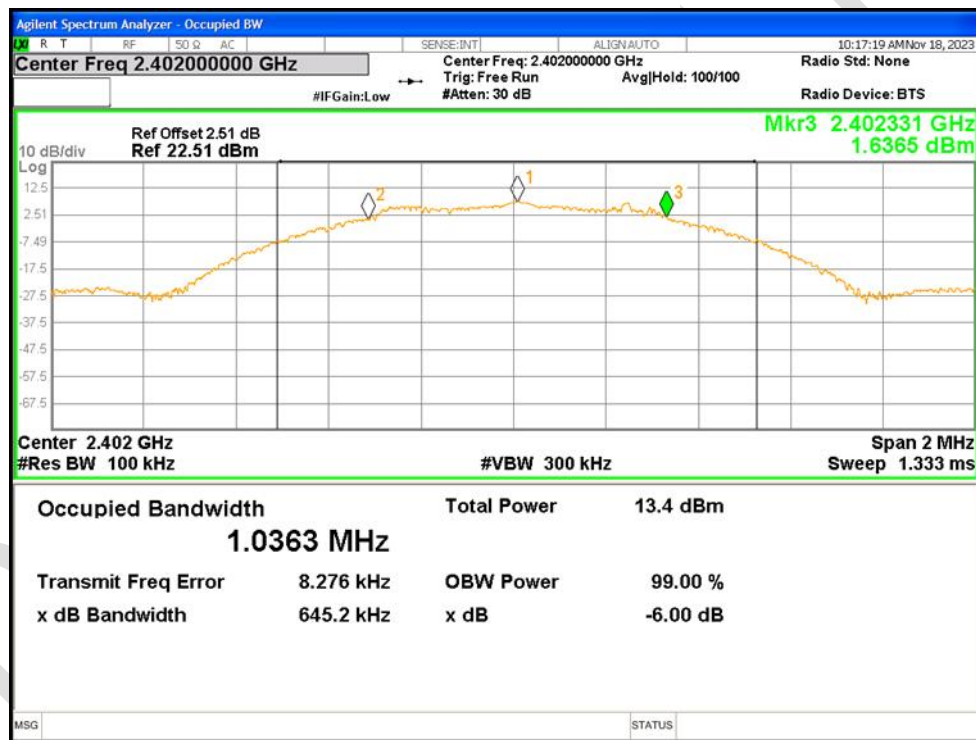
Power NVNT BLE 2M 2480MHz Ant1



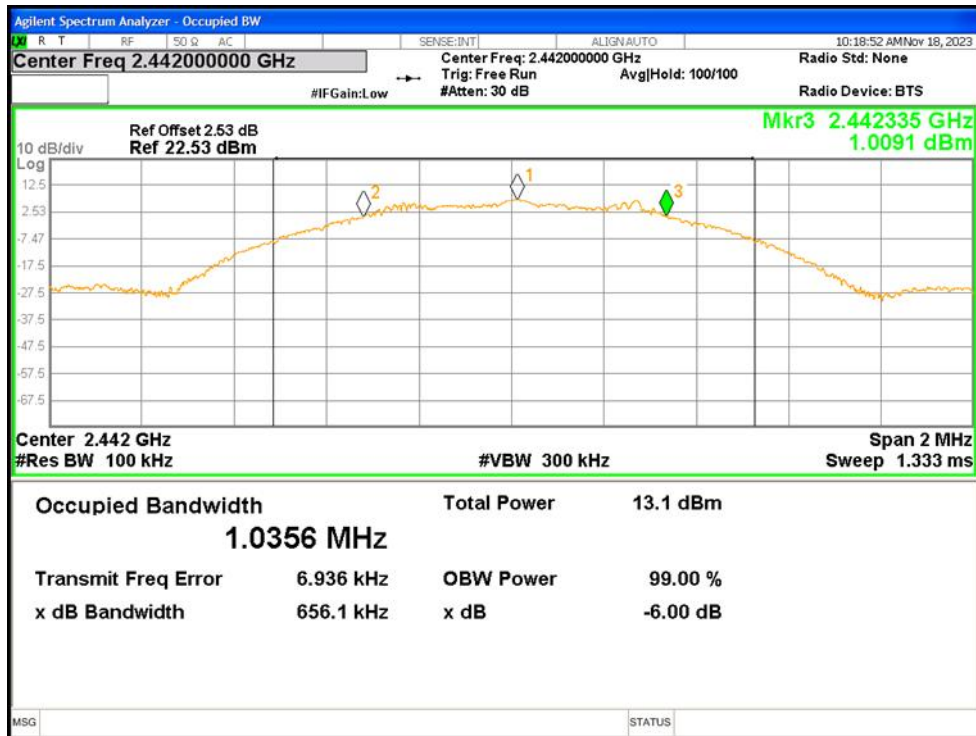
19.2 -6DB BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.6452	0.5	Pass
NVNT	BLE 1M	2442	Ant1	0.6561	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.6549	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.09	0.5	Pass
NVNT	BLE 2M	2442	Ant1	1.121	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.115	0.5	Pass

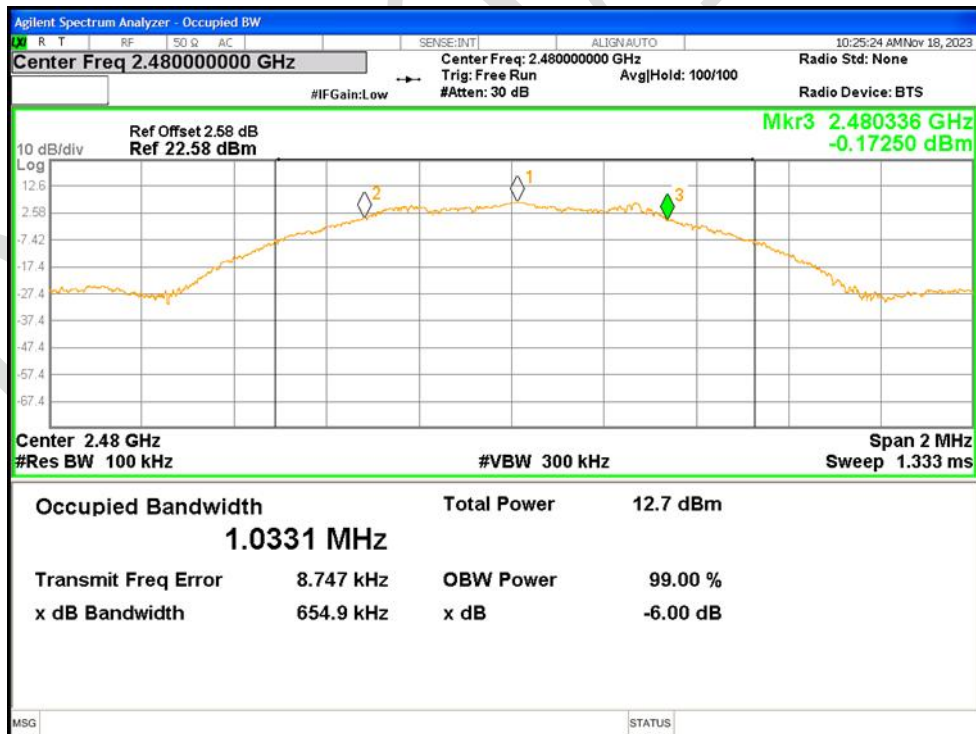
-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



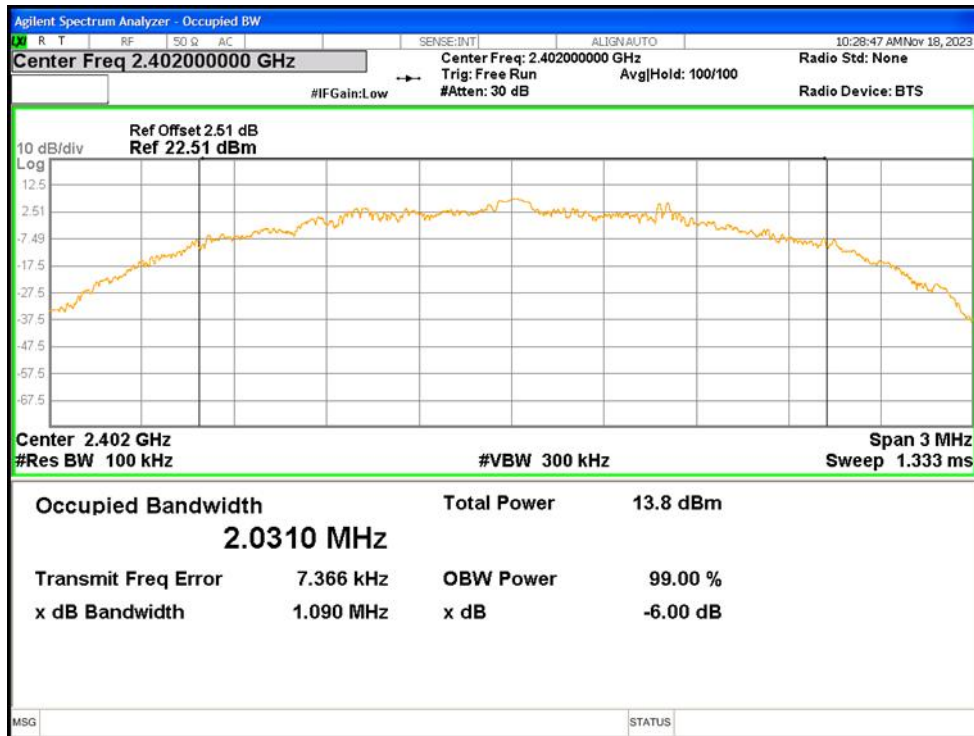
-6dB Bandwidth NVNT BLE 1M 2442MHz Ant1



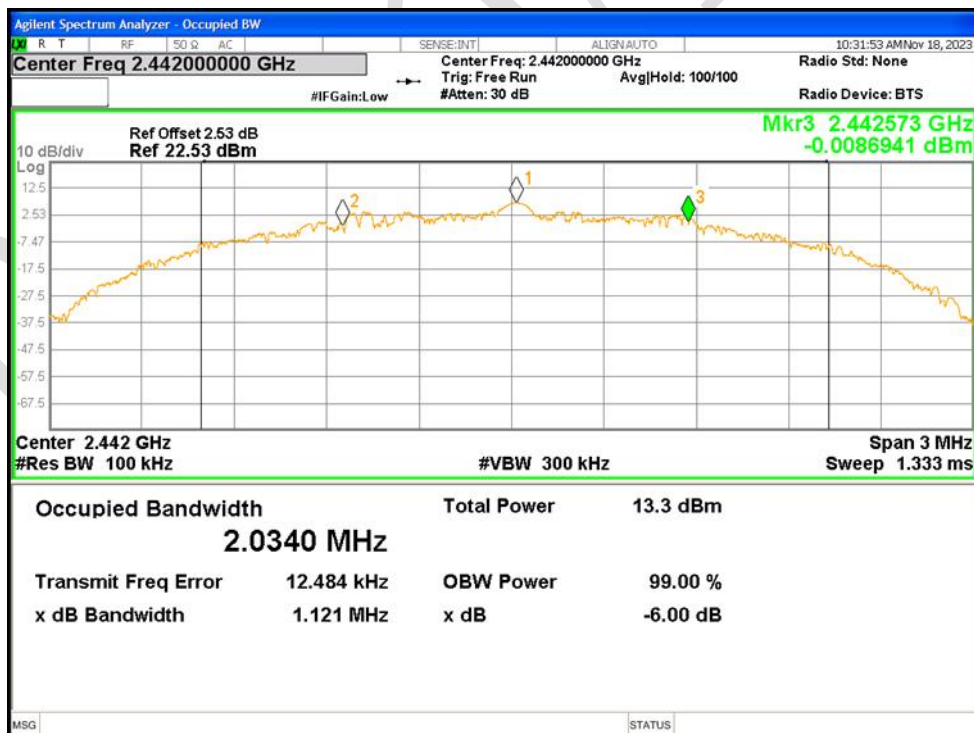
-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



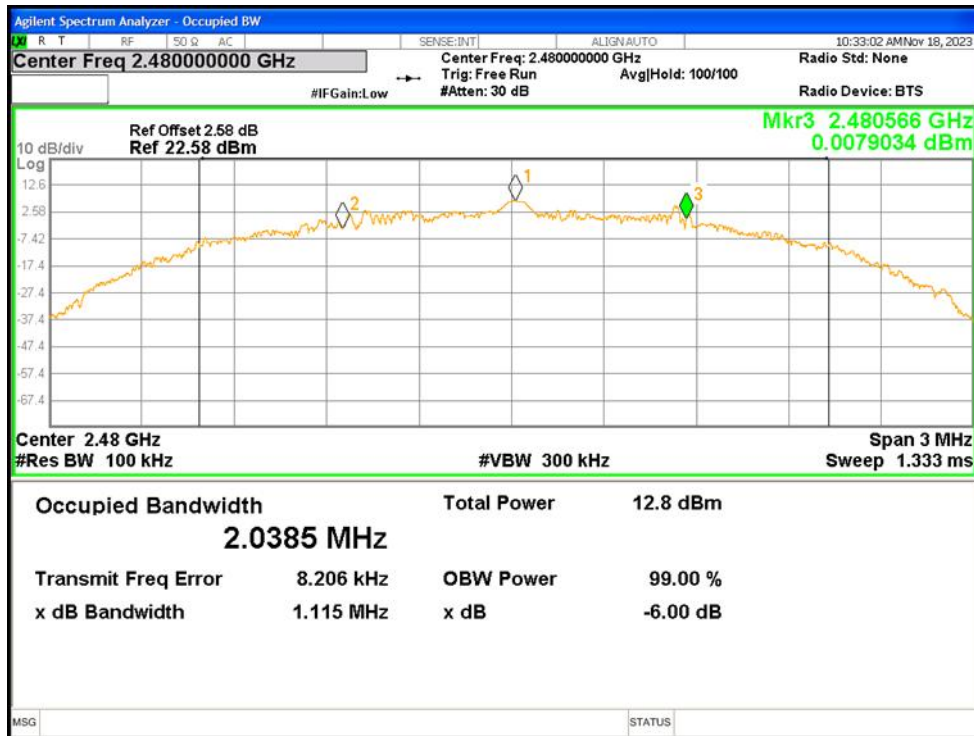
-6dB Bandwidth NVNT BLE 2M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2442MHz Ant1



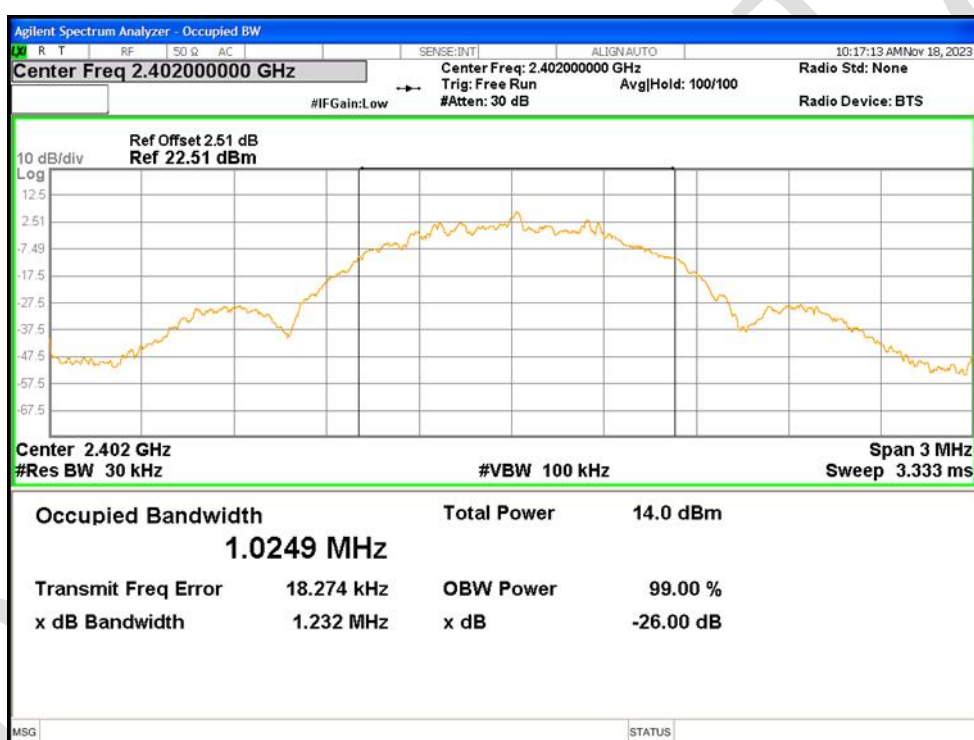
-6dB Bandwidth NVNT BLE 2M 2480MHz Ant1



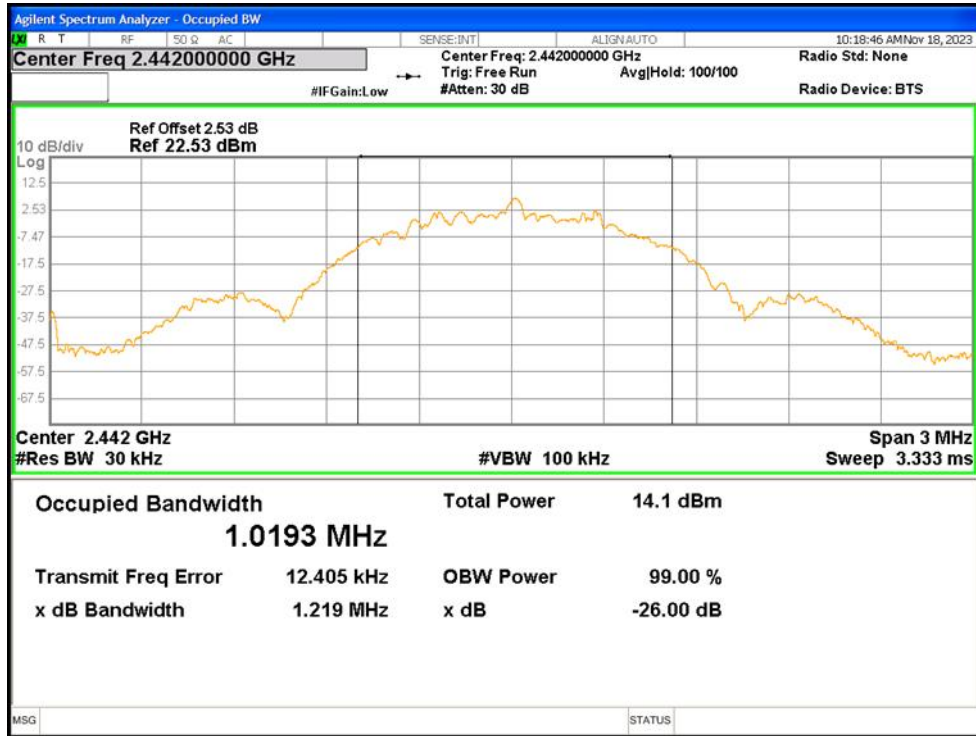
19.3 OCCUPIED CHANNEL BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.0249
NVNT	BLE 1M	2442	Ant1	1.0193
NVNT	BLE 1M	2480	Ant1	1.0260
NVNT	BLE 2M	2402	Ant1	1.9868
NVNT	BLE 2M	2442	Ant1	2.0132
NVNT	BLE 2M	2480	Ant1	2.0155

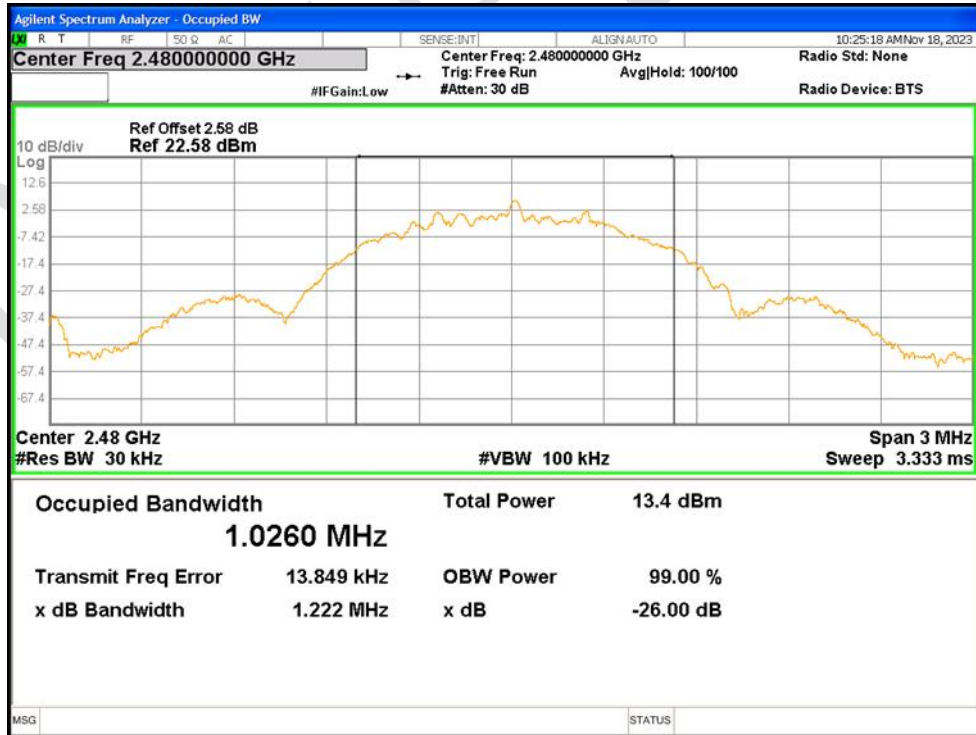
OBW NVNT BLE 1M 2402MHz Ant1



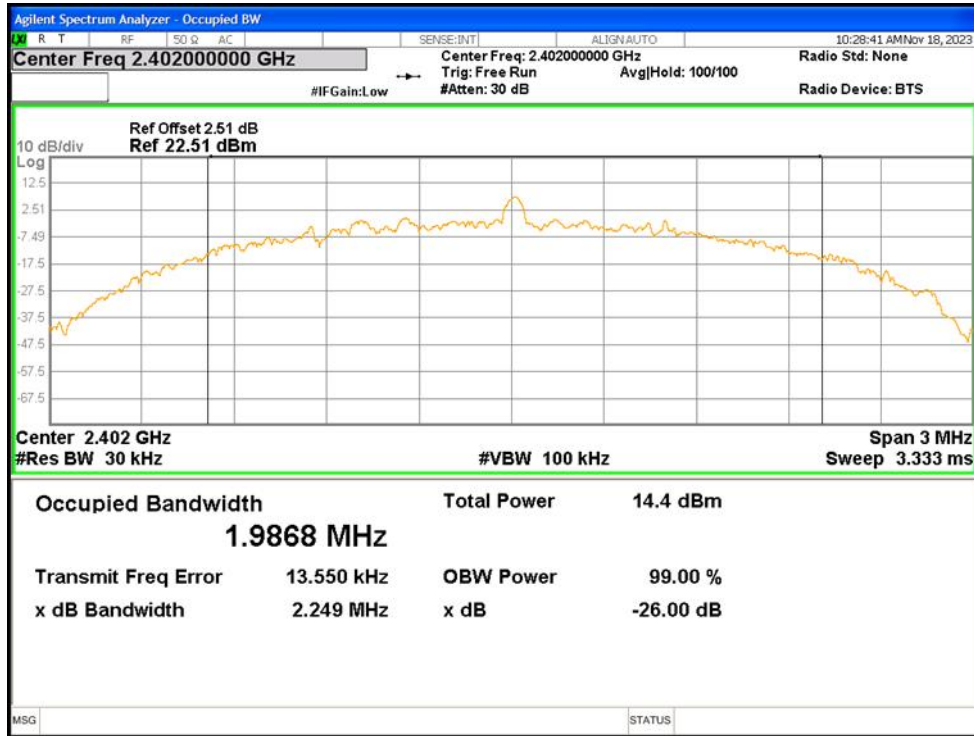
OBW NVNT BLE 1M 2442MHz Ant1



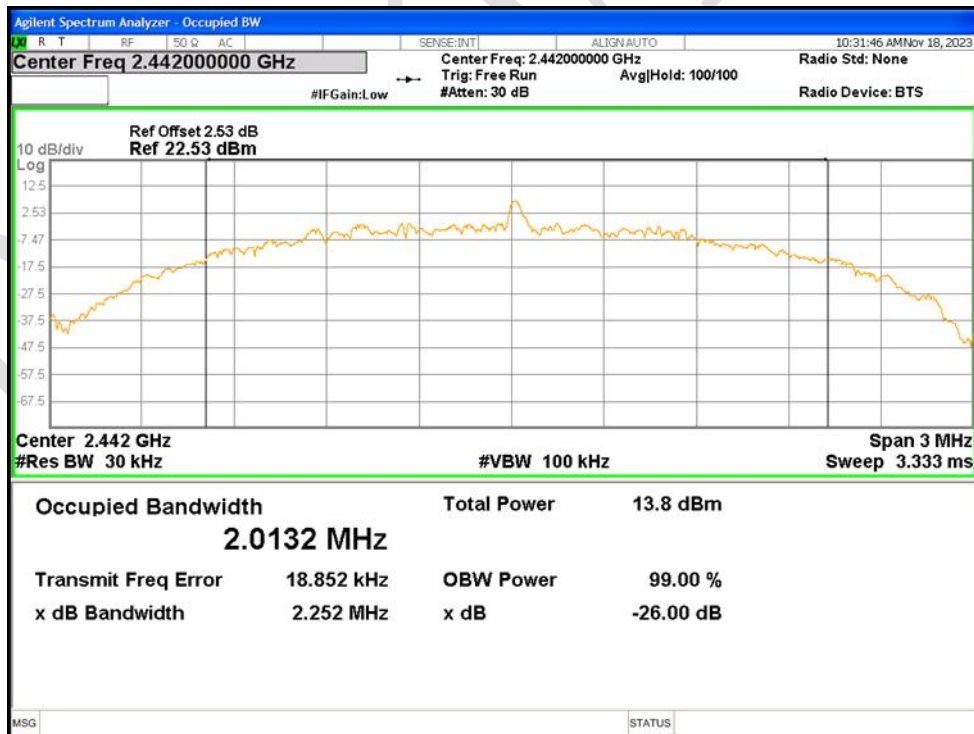
OBW NVNT BLE 1M 2480MHz Ant1



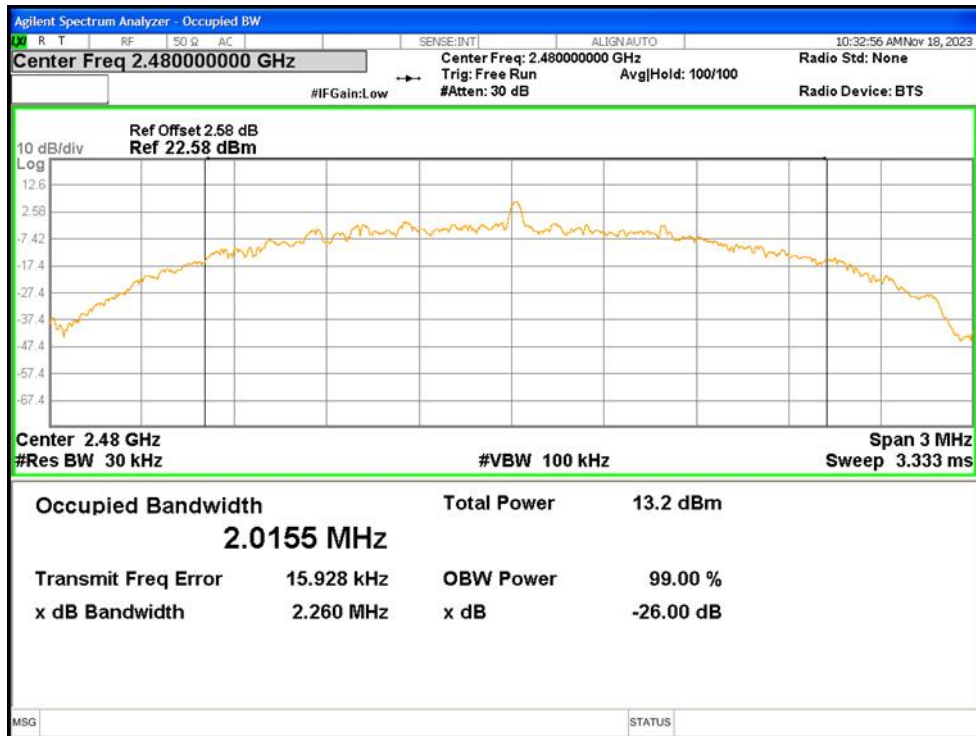
OBW NVNT BLE 2M 2402MHz Ant1



OBW NVNT BLE 2M 2442MHz Ant1



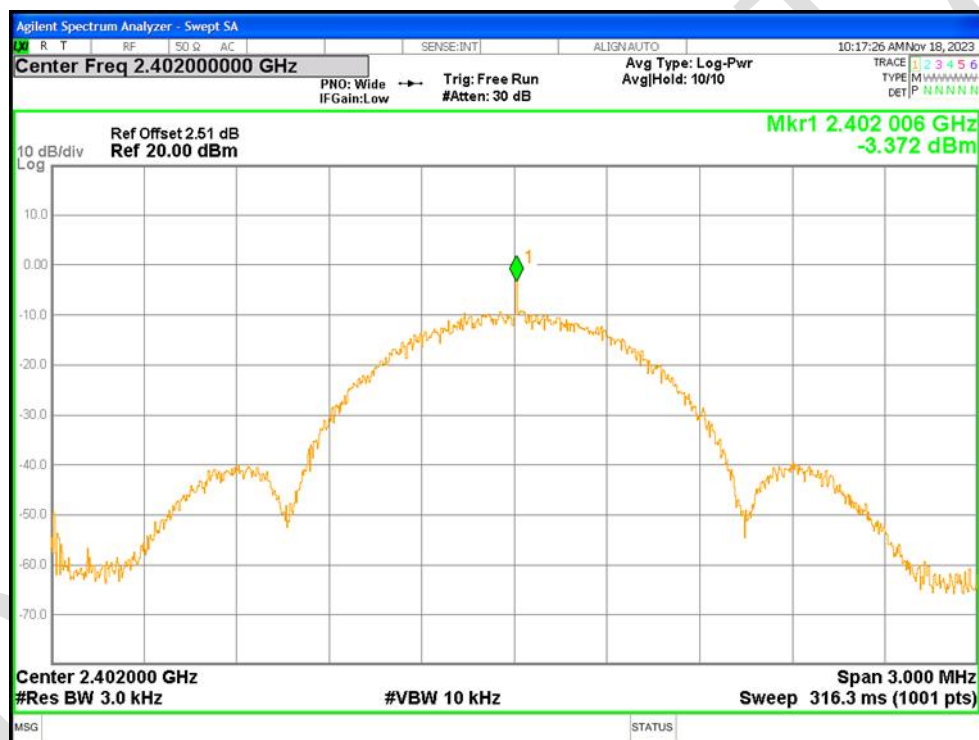
OBW NVNT BLE 2M 2480MHz Ant1



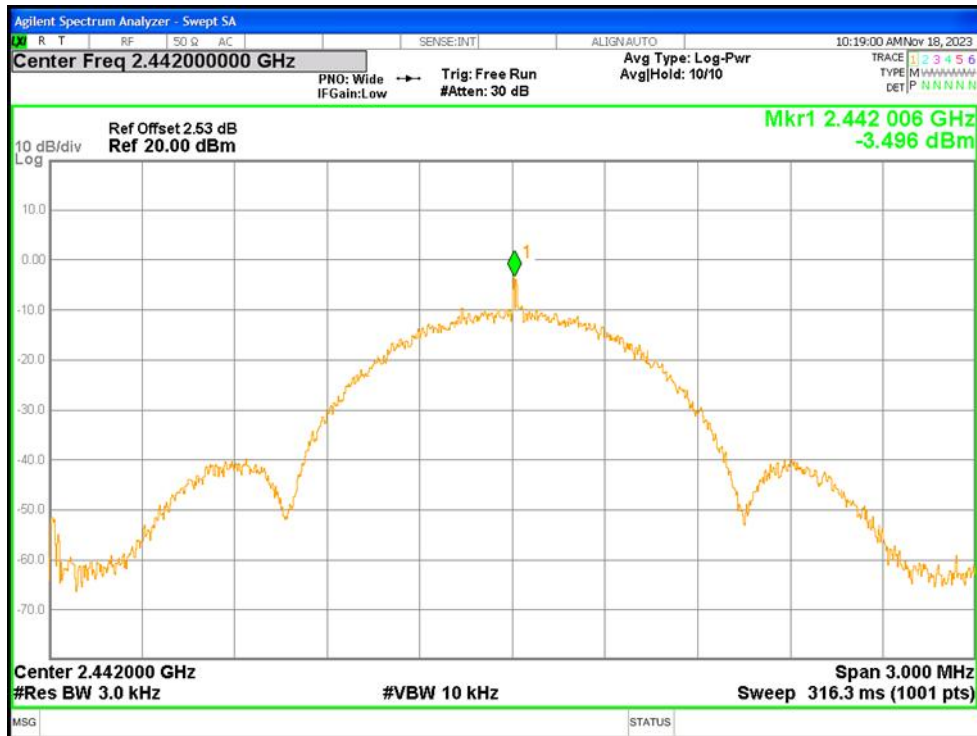
19.4 MAXIMUM POWER SPECTRAL DENSITY LEVEL

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-3.372	8	Pass
NVNT	BLE 1M	2442	Ant1	-3.496	8	Pass
NVNT	BLE 1M	2480	Ant1	-3.958	8	Pass
NVNT	BLE 2M	2402	Ant1	-4.278	8	Pass
NVNT	BLE 2M	2442	Ant1	-3.908	8	Pass
NVNT	BLE 2M	2480	Ant1	-4.524	8	Pass

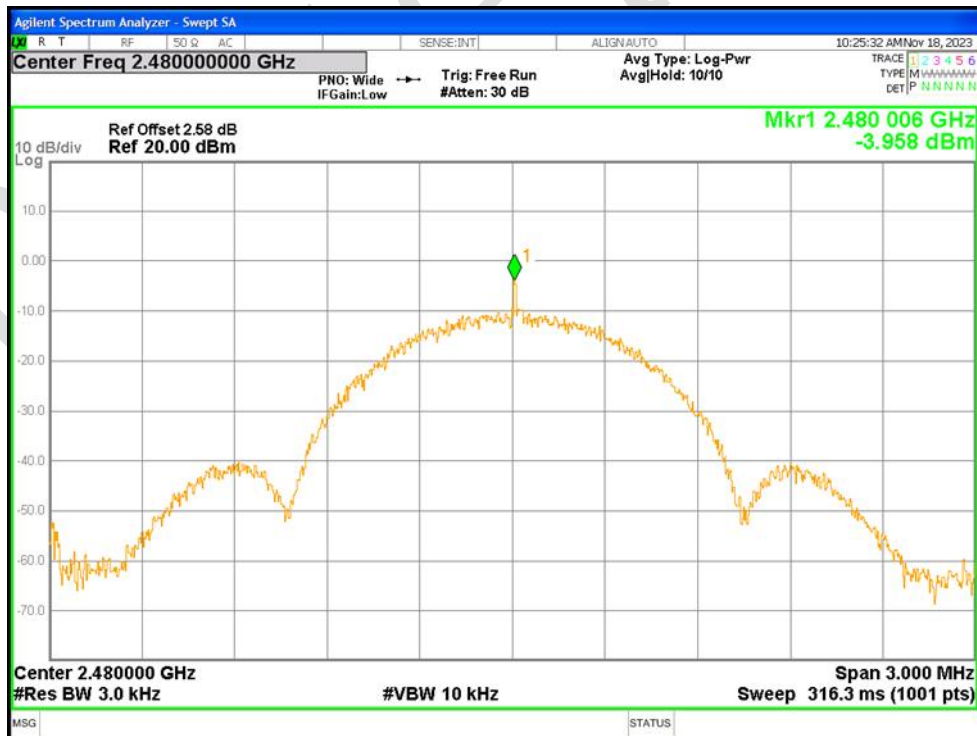
PSD NVNT BLE 1M 2402MHz Ant1



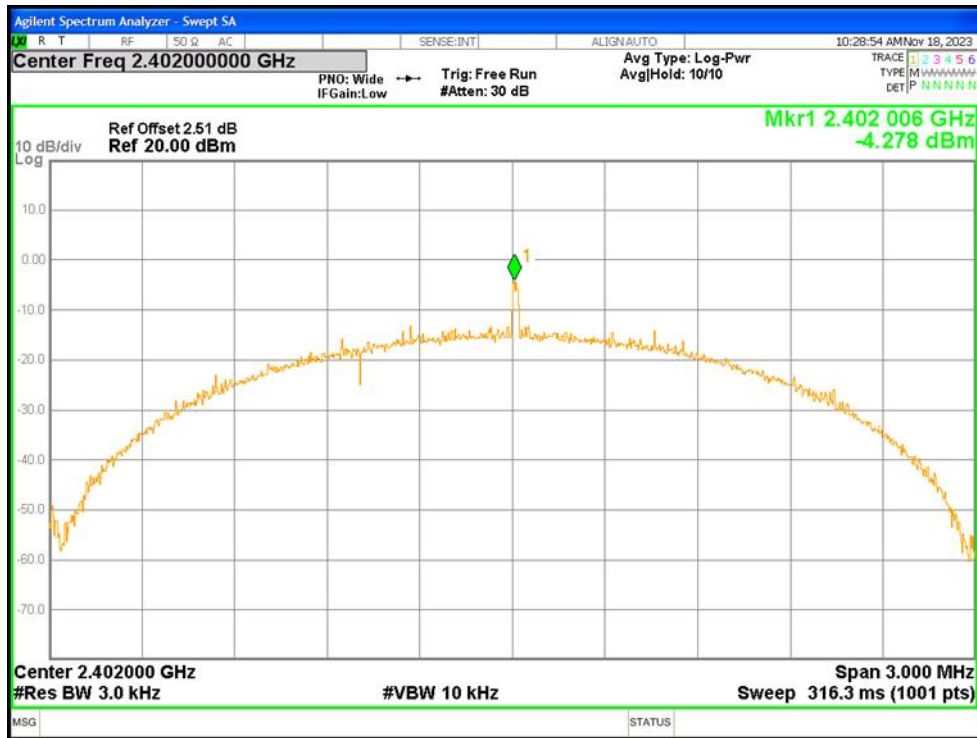
PSD NVNT BLE 1M 2442MHz Ant1



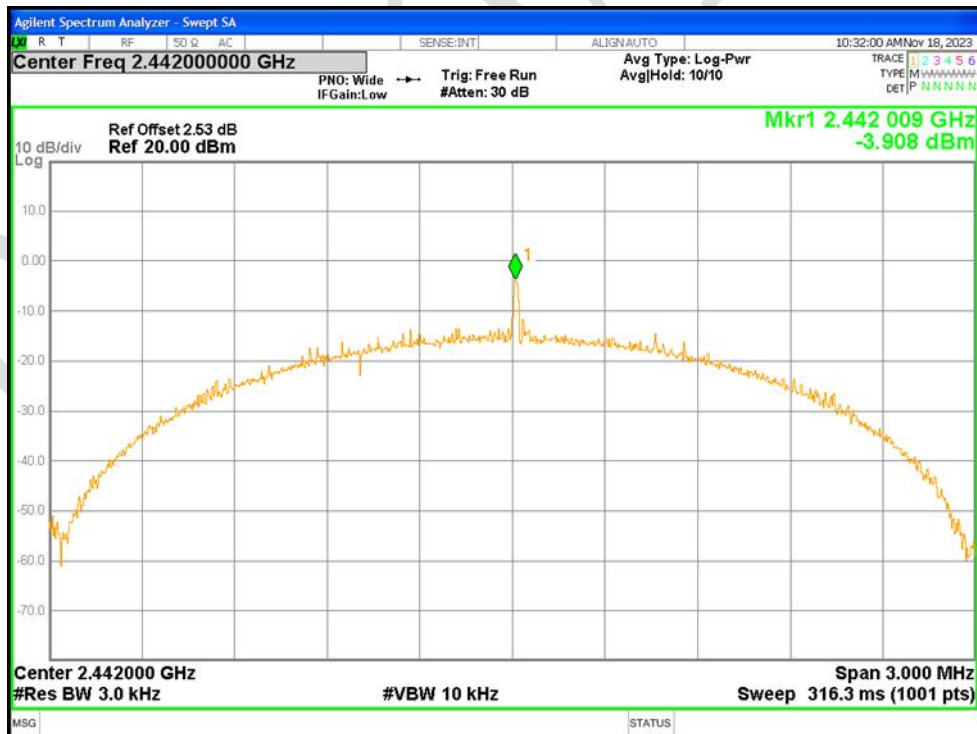
PSD NVNT BLE 1M 2480MHz Ant1



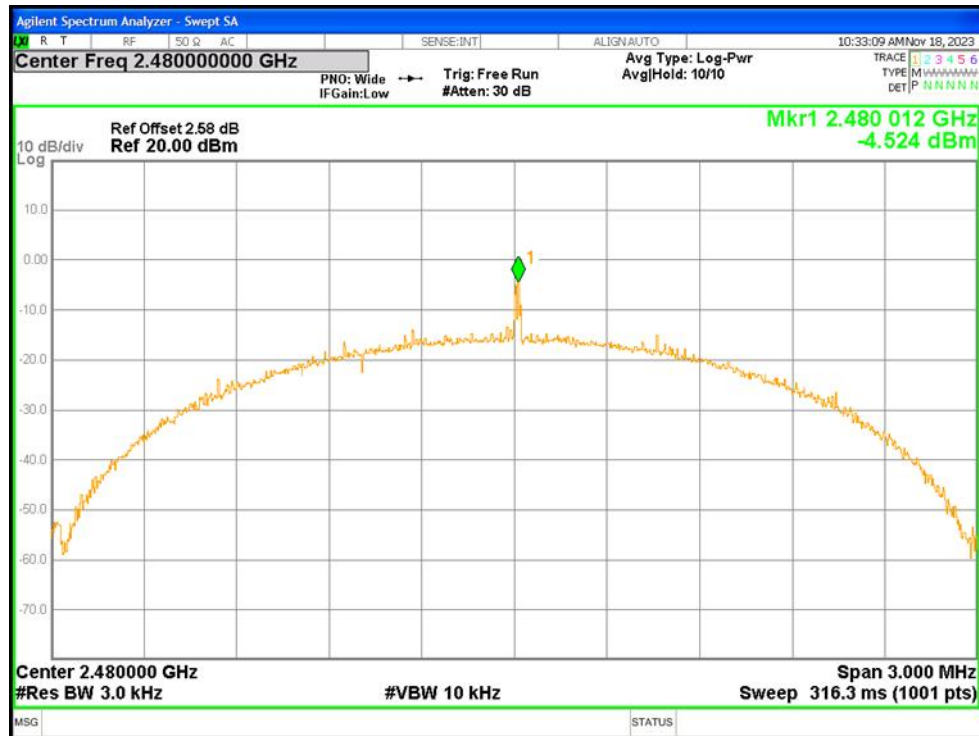
PSD NVNT BLE 2M 2402MHz Ant1



PSD NVNT BLE 2M 2442MHz Ant1



PSD NVNT BLE 2M 2480MHz Ant1



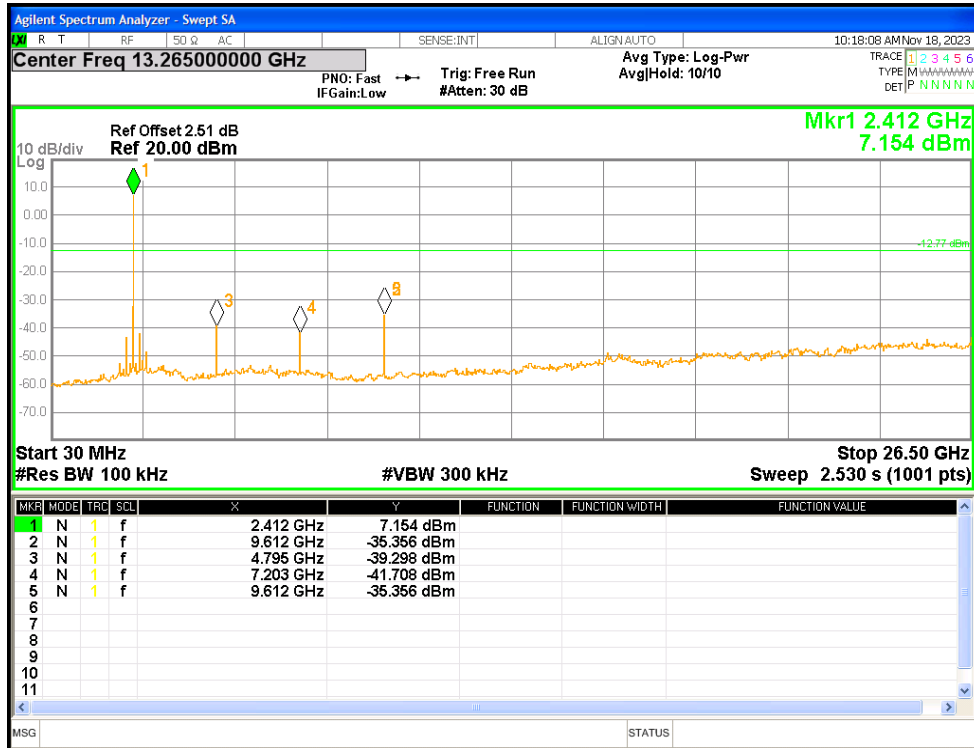
19.5 CONDUCTED RF SPURIOUS EMISSION

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-42.58	-20	Pass
NVNT	BLE 1M	2442	Ant1	-40.4	-20	Pass
NVNT	BLE 1M	2480	Ant1	-38.83	-20	Pass
NVNT	BLE 2M	2402	Ant1	-42.65	-20	Pass
NVNT	BLE 2M	2442	Ant1	-39.19	-20	Pass
NVNT	BLE 2M	2480	Ant1	-39.5	-20	Pass

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



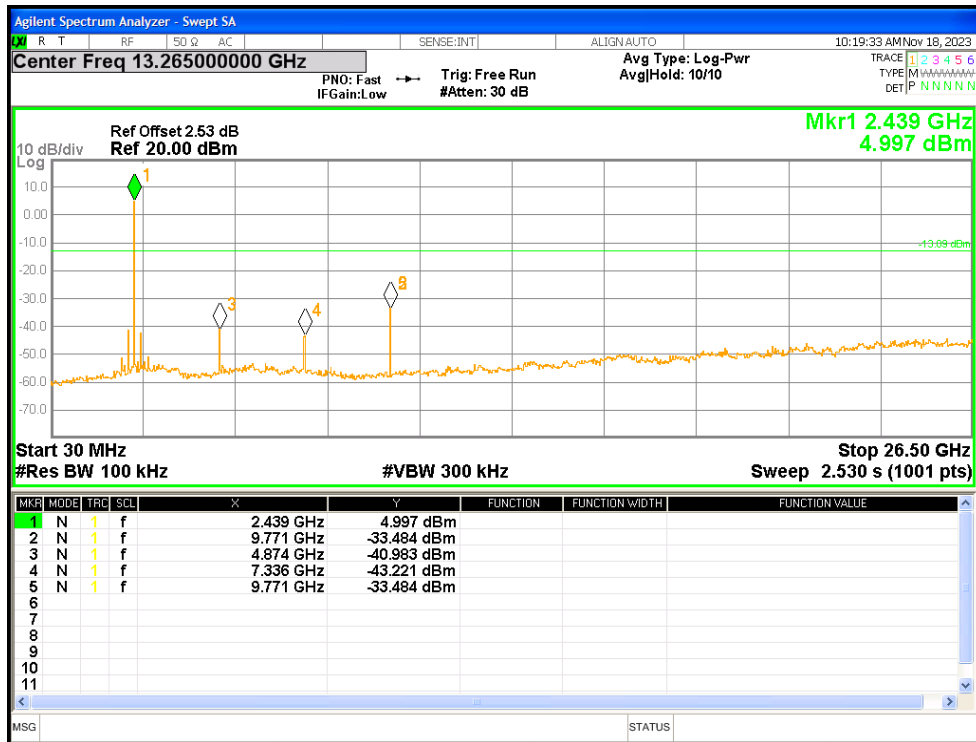
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



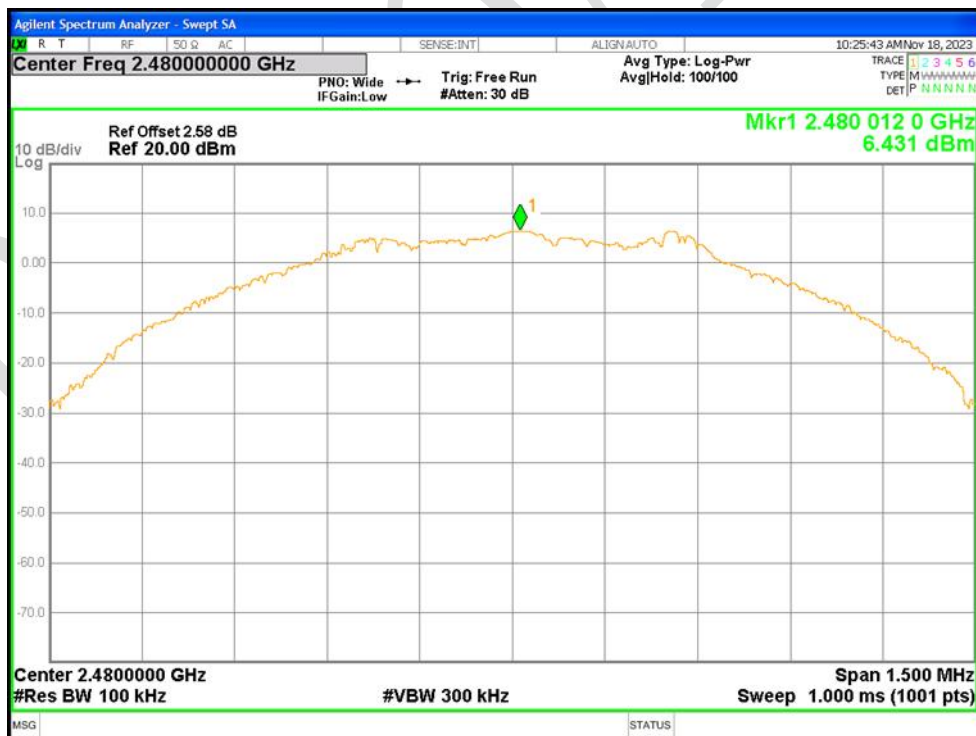
Tx. Spurious NVNT BLE 1M 2442MHz Ant1 Ref



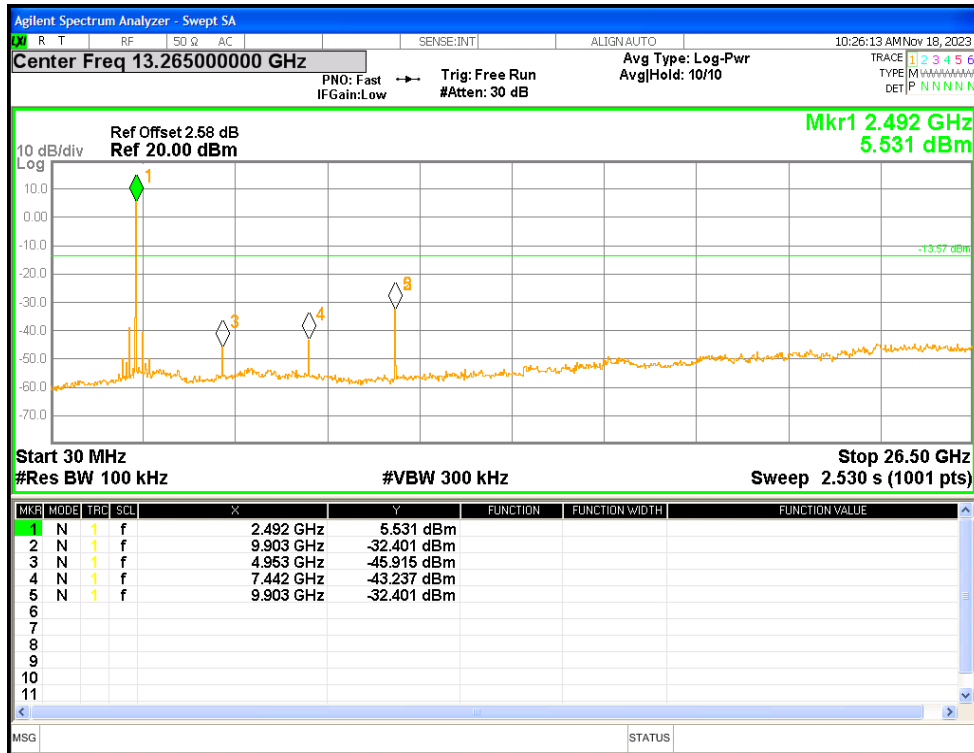
Tx. Spurious NVNT BLE 1M 2442MHz Ant1 Emission



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



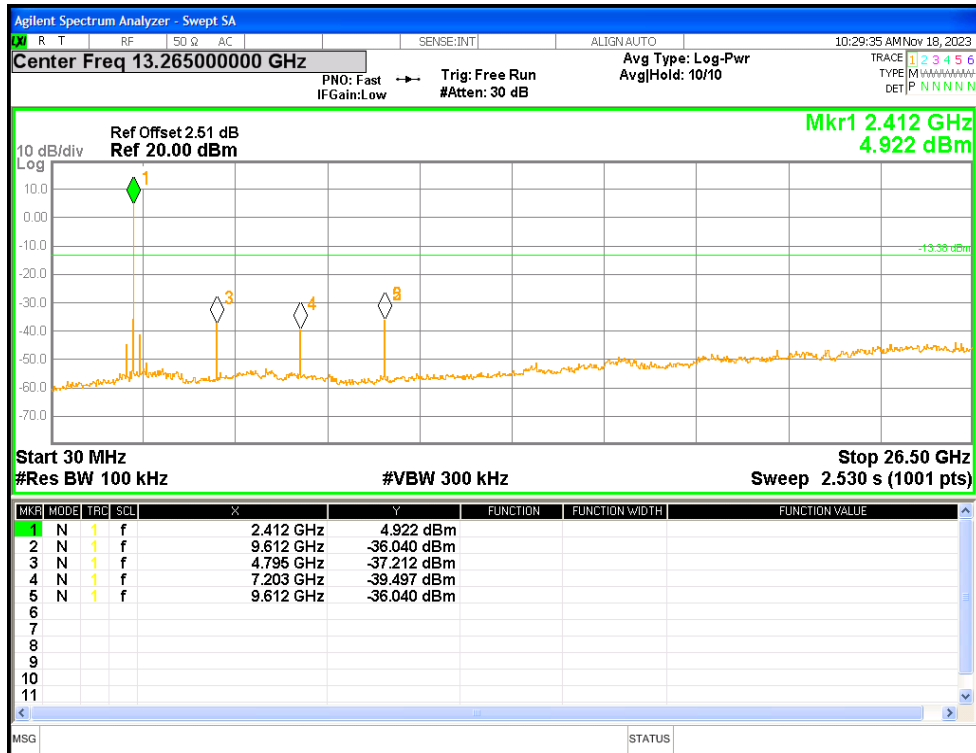
Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Ref



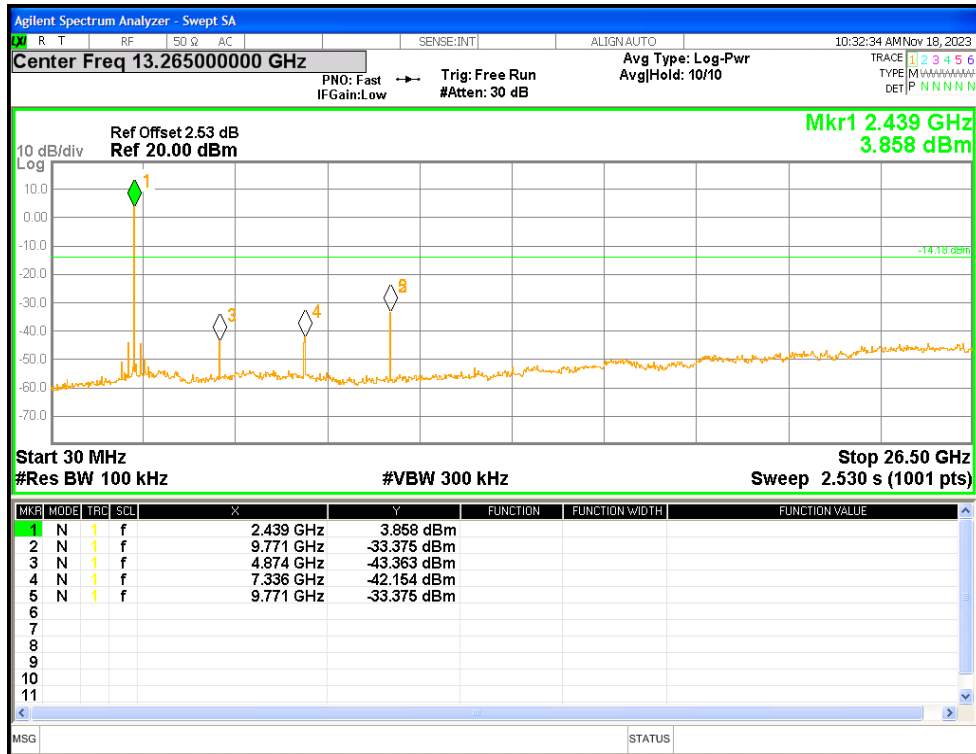
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Emission



Tx. Spurious NVNT BLE 2M 2442MHz Ant1 Ref



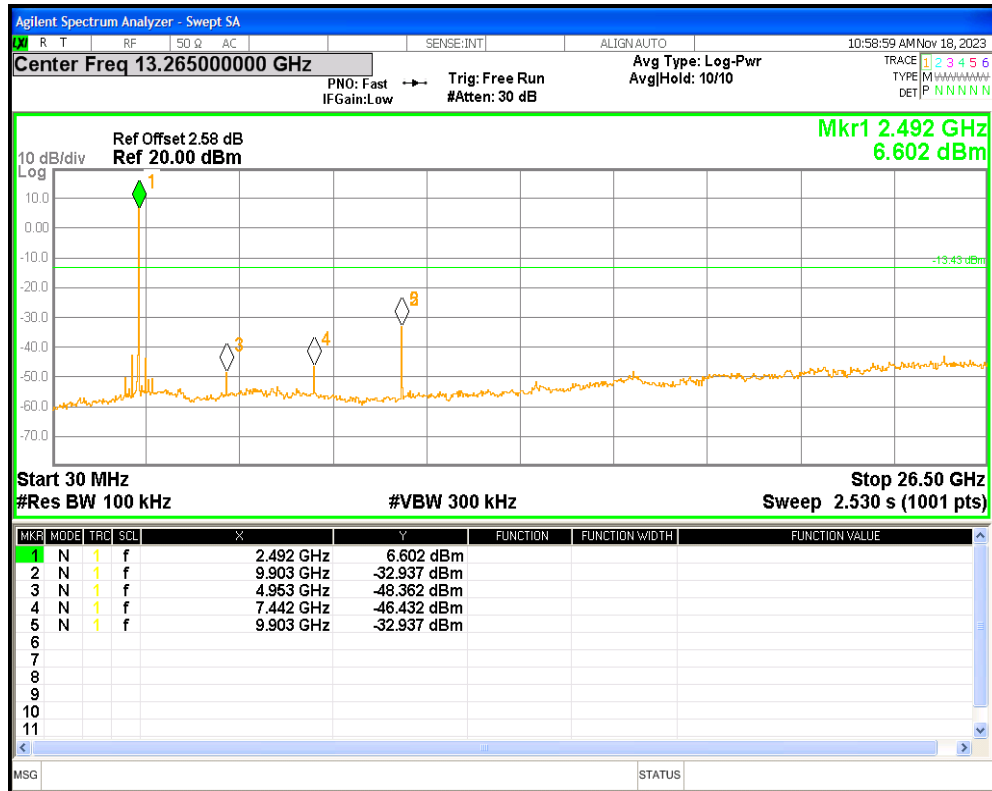
Tx. Spurious NVNT BLE 2M 2442MHz Ant1 Emission



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Emission



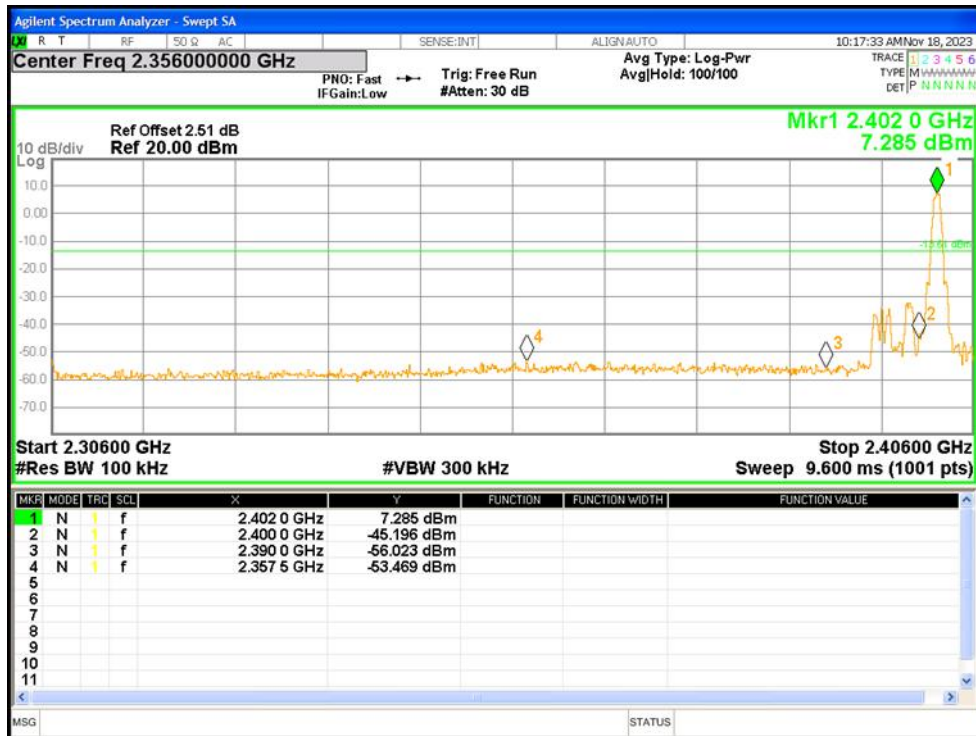
19.6 BAND EDGE

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-51.59	-30	Pass
NVNT	BLE 1M	2480	Ant1	-48.69	-30	Pass
NVNT	BLE 2M	2402	Ant1	-34.85	-30	Pass
NVNT	BLE 2M	2480	Ant1	-51.36	-30	Pass

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



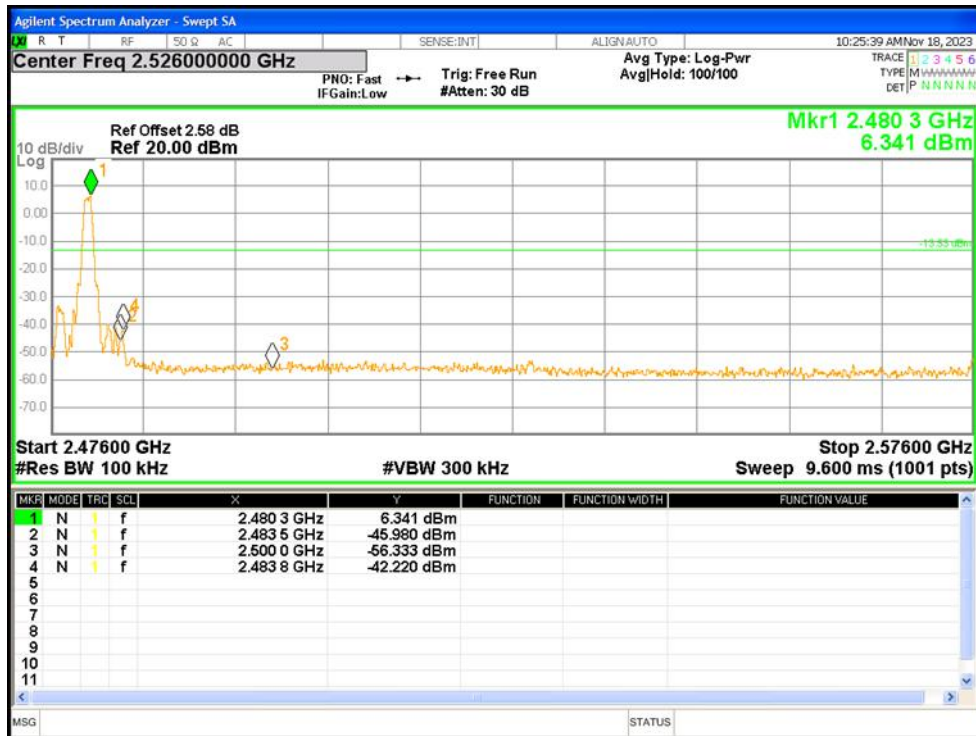
Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



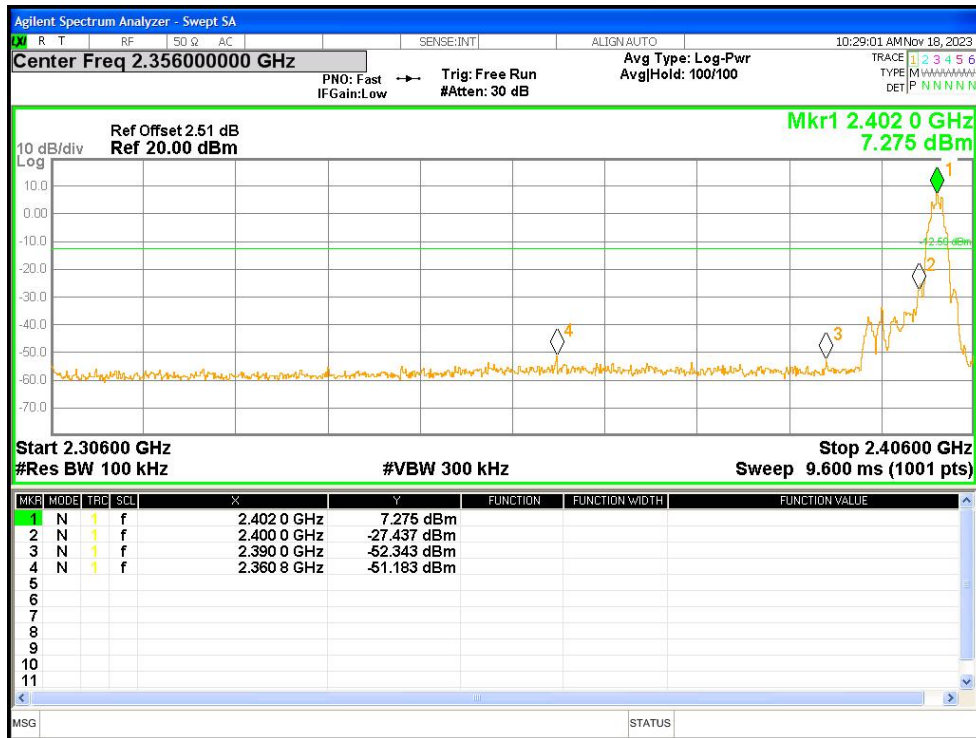
Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



Band Edge NVNT BLE 2M 2402MHz Ant1 Ref



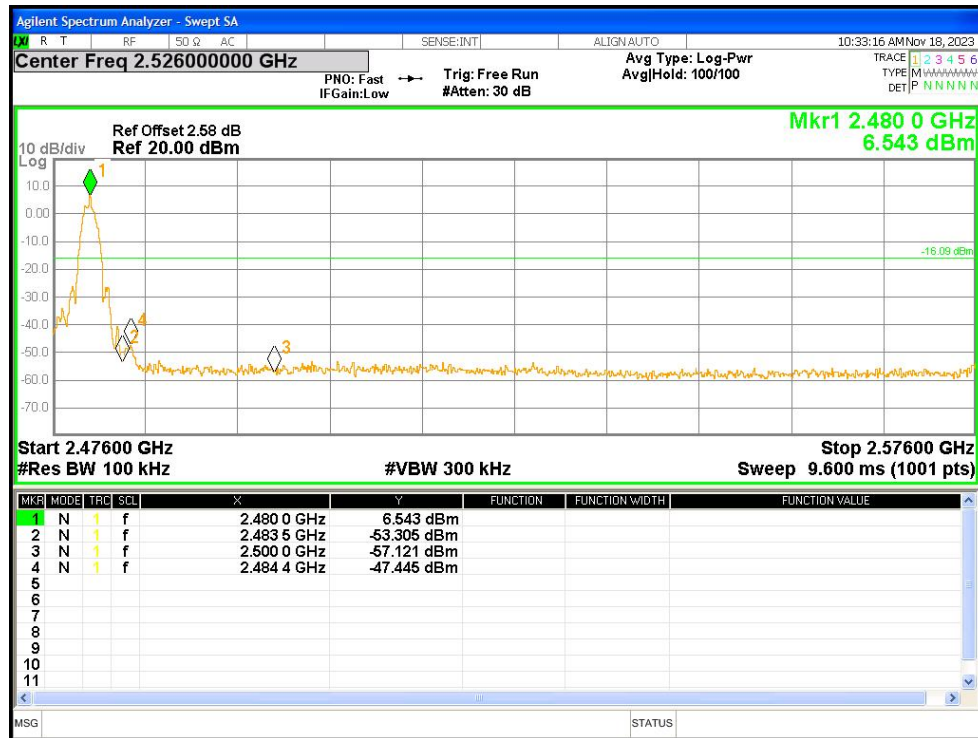
Band Edge NVNT BLE 2M 2402MHz Ant1 Emission



Band Edge NVNT BLE 2M 2480MHz Ant1 Ref

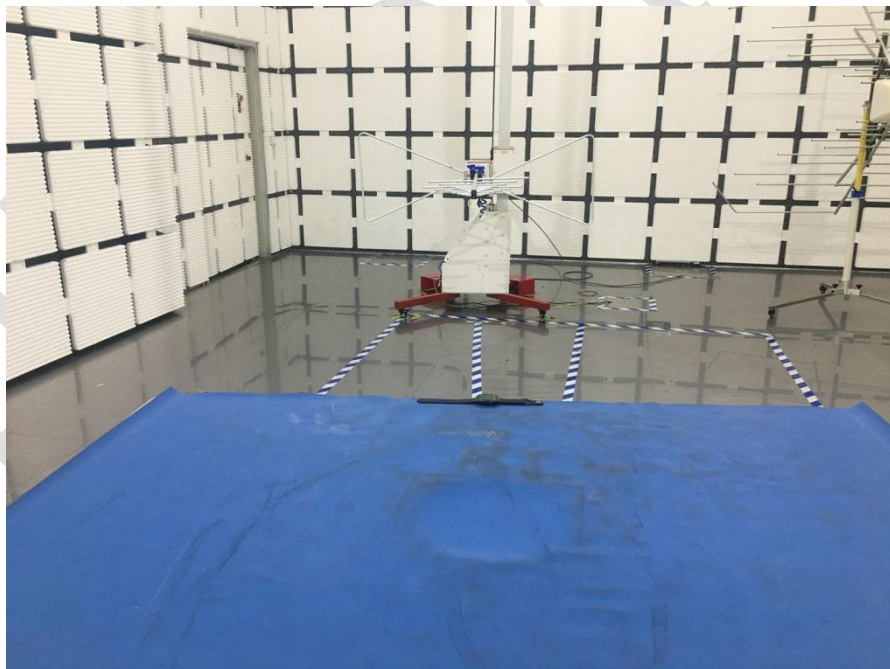


Band Edge NVNT BLE 2M 2480MHz Ant1 Emission



APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Radiated Spurious Emissions



Conducted Emissions at AC Power Line (150kHz-30MHz)**APPENDIX B: PHOTOGRAPHS OF EUT**

Reference to the test report No. BLA-EMC-202311-A3501

----END OF REPORT----

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