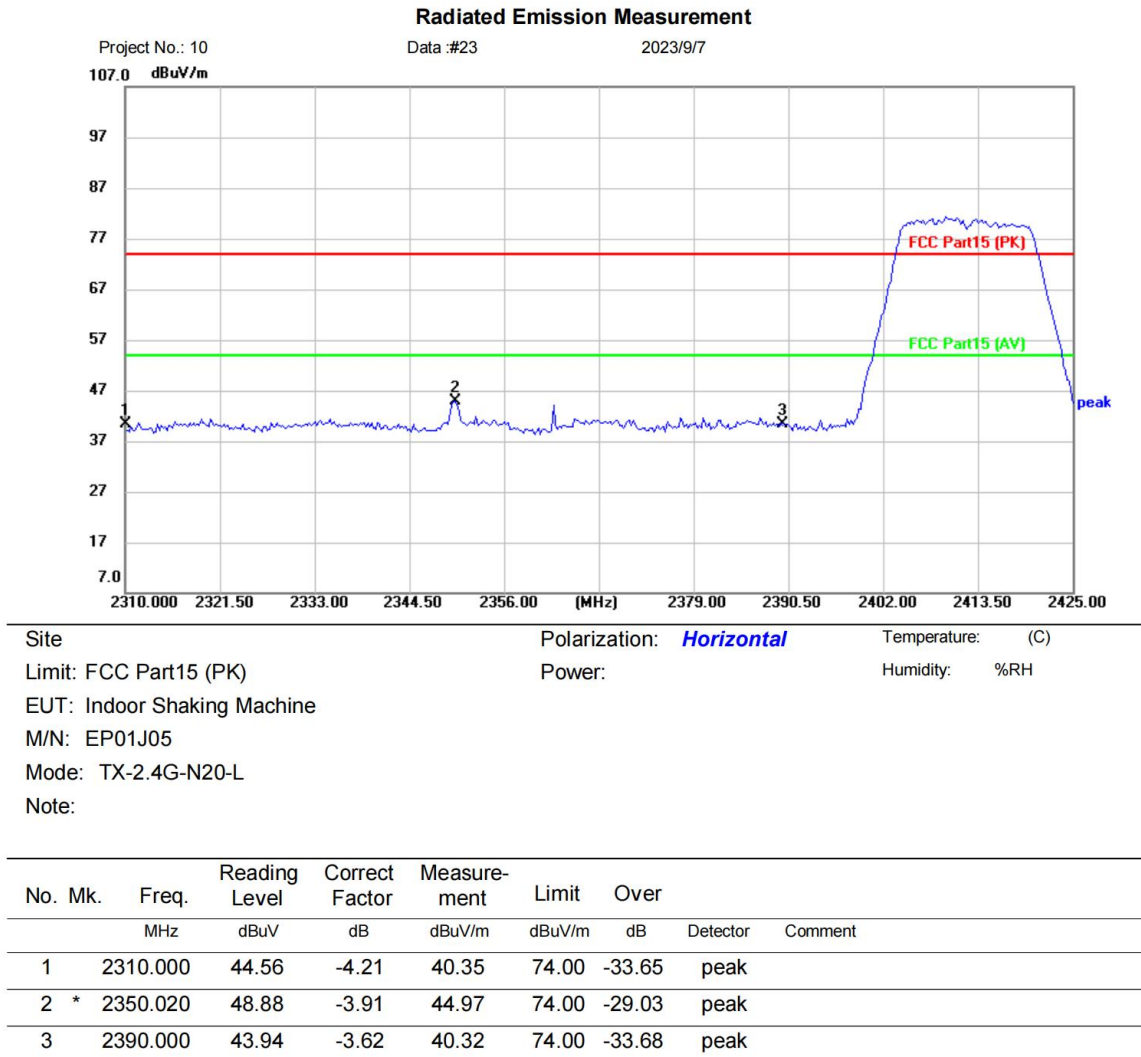
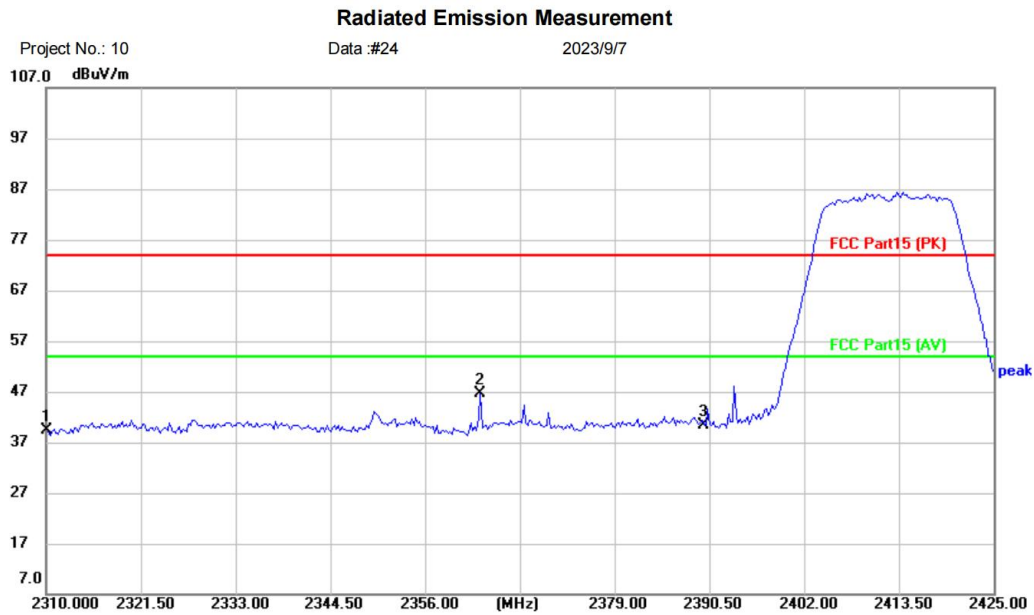


[TestMode: TX n20 low channel]; [Polarity: Horizontal]



Test Result: Pass

[TestMode: TX n20 low channel]; [Polarity: Vertical]

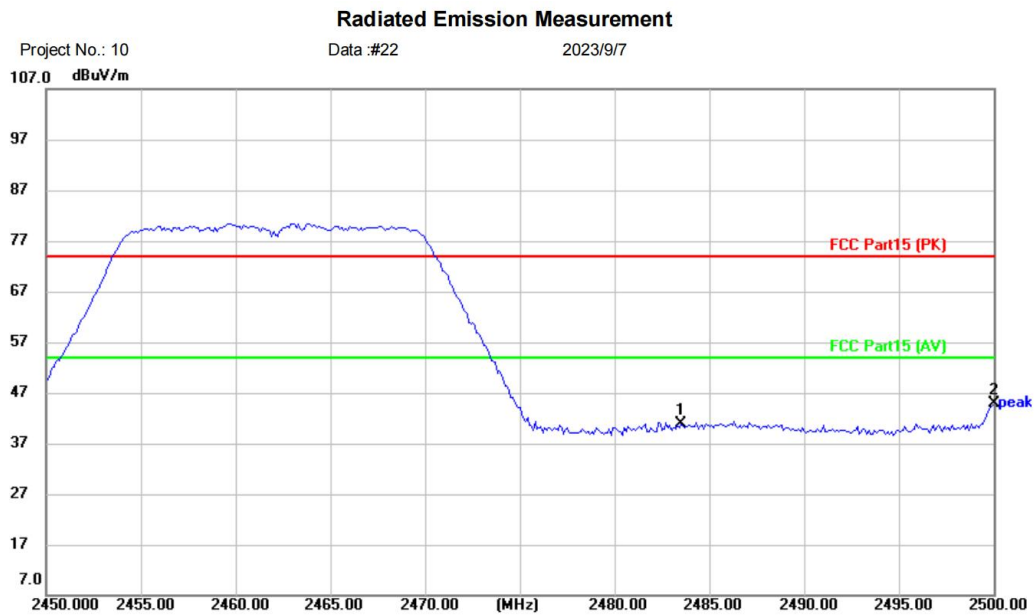


Site	Polarization: Vertical	Temperature: (C)
Limit: FCC Part15 (PK)	Power:	Humidity: %RH
EUT: Indoor Shaking Machine		
M/N: EP01J05		
Mode: TX-2.4G-N20-L		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2310.000	43.59	-4.21	39.38	74.00	-34.62	peak	
2	*	2362.670	50.34	-3.81	46.53	74.00	-27.47	peak	
3		2390.000	43.94	-3.62	40.32	74.00	-33.68	peak	

Test Result: Pass

[TestMode: TX n20 high channel]; [Polarity: Horizontal]



Site	Polarization: Horizontal	Temperature: (C)
Limit: FCC Part15 (PK)	Power:	Humidity: %RH
EUT: Indoor Shaking Machine		
M/N: EP01J05		
Mode: TX-2.4G-N20-H		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2483.500	44.48	-3.59	40.89	74.00	-33.11	peak	
2	*	2500.000	48.60	-3.60	45.00	74.00	-29.00	peak	

Test Result: Pass

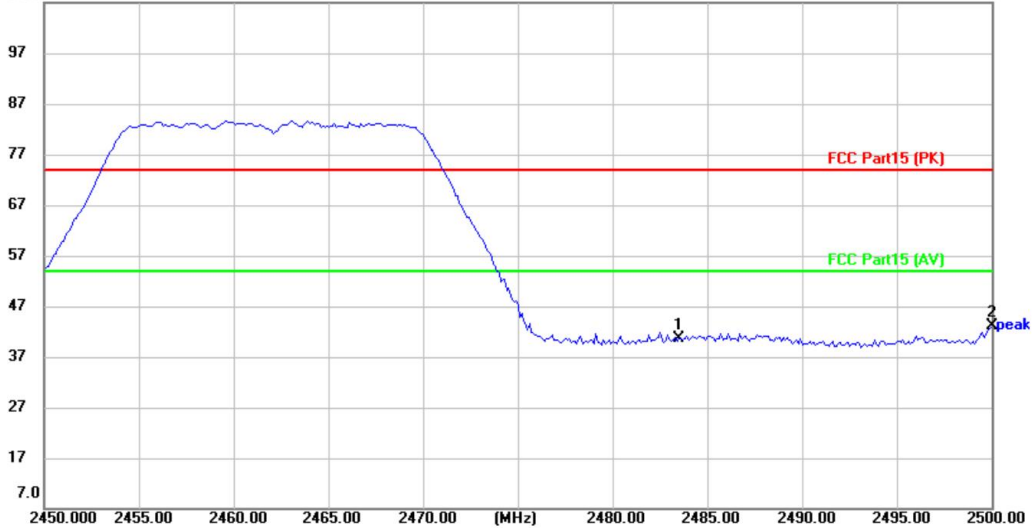
[TestMode: TX n20 high channel]; [Polarity: Vertical]

Radiated Emission Measurement

Project No.: 10
107.0 dBuV/m

Data :#21

2023/9/7



Site

Limit: FCC Part15 (PK)

EUT: Indoor Shaking Machine

M/N: EP01J05

Mode: TX-2.4G-N20-H

Note:

Polarization: **Vertical**

Temperature: (C)

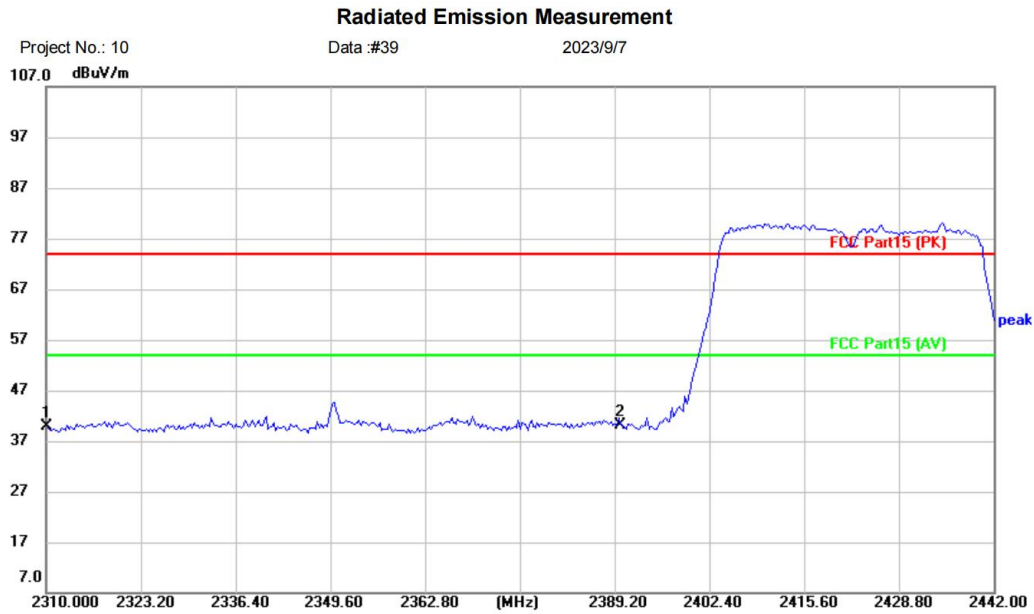
Power:

Humidity: %RH

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2483.500	44.25	-3.59	40.66	74.00	-33.34	peak	
2	*	2500.000	46.61	-3.60	43.01	74.00	-30.99	peak	

Test Result: Pass

[TestMode: TX n40 low channel]; [Polarity: Horizontal]

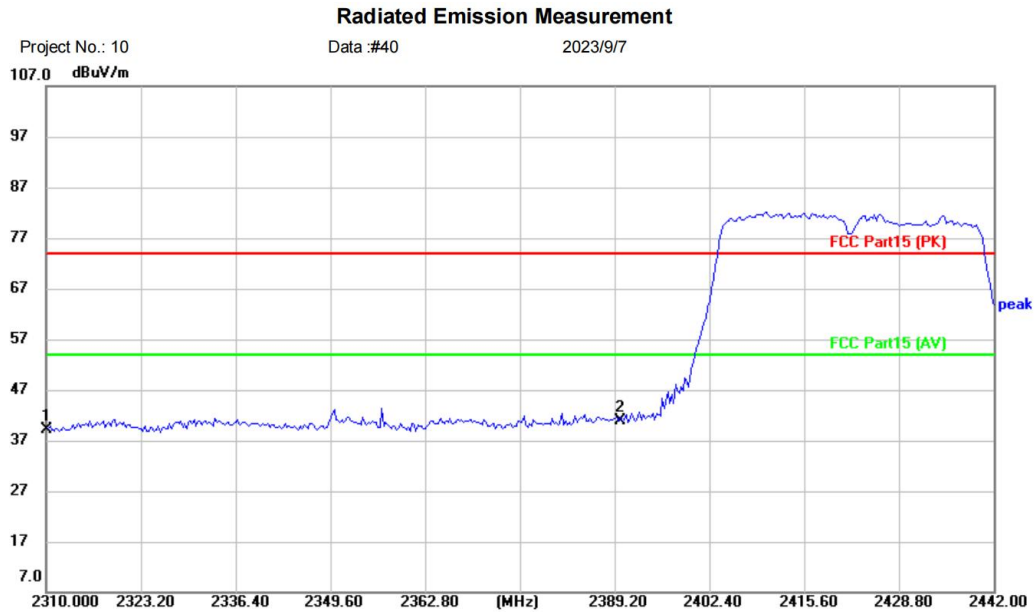


Site: Polarization: **Horizontal** Temperature: (C)
Limit: FCC Part15 (PK) Power: Humidity: %RH
EUT: Indoor Shaking Machine
M/N: EP01J05
Mode: TX-2.4G-N40-L
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2310.000	44.02	-4.21	39.81	74.00	-34.19	peak	
2	*	2390.000	43.77	-3.62	40.15	74.00	-33.85	peak	

Test Result: Pass

[TestMode: TX n40 low channel]; [Polarity: Vertical]

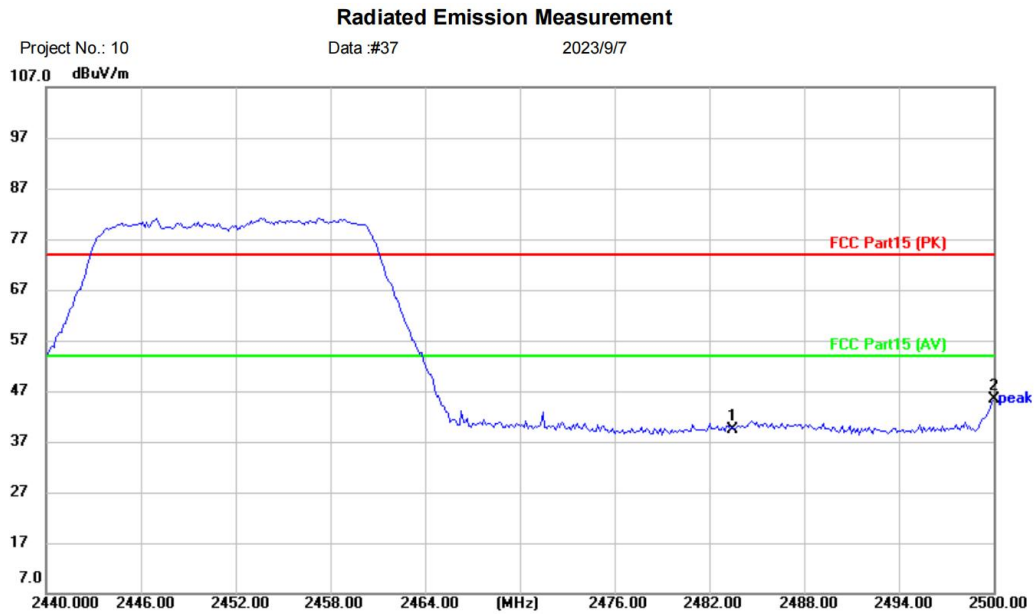


Site	Polarization: Vertical	Temperature: (C)
Limit: FCC Part15 (PK)	Power:	Humidity: %RH
EUT: Indoor Shaking Machine		
M/N: EP01J05		
Mode: TX-2.4G-N40-L		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2310.000	43.42	-4.21	39.21	74.00	-34.79	peak	
2	*	2390.000	44.49	-3.62	40.87	74.00	-33.13	peak	

Test Result: Pass

[TestMode: TX n40 high channel]; [Polarity: Horizontal]



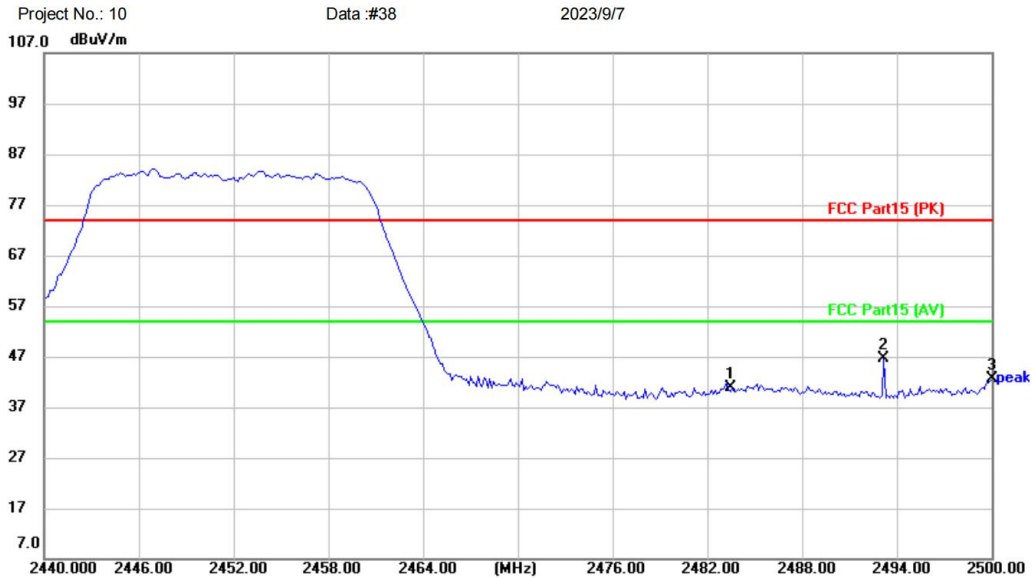
Site	Polarization: Horizontal	Temperature: (C)
Limit: FCC Part15 (PK)	Power:	Humidity: %RH
EUT: Indoor Shaking Machine		
M/N: EP01J05		
Mode: TX-2.4G-N40-H		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2483.500	42.87	-3.59	39.28	74.00	-34.72	peak	
2	*	2500.000	49.01	-3.60	45.41	74.00	-28.59	peak	

Test Result: Pass

[TestMode: TX n40 high channel]; [Polarity: Vertical]

Radiated Emission Measurement



Site: Polarization: **Vertical** Temperature: (C)
Limit: FCC Part15 (PK) Power: Humidity: %RH
EUT: Indoor Shaking Machine
M/N: EP01J05
Mode: TX-2.4G-N40-H
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		2483.500	44.55	-3.59	40.96	74.00	-33.04	peak
2	*	2493.160	50.14	-3.59	46.55	74.00	-27.45	peak
3		2500.000	46.30	-3.60	42.70	74.00	-31.30	peak

Test Result: Pass

Remark:

1. Final Level = Receiver Read level + Correct factor
2. Correct factor = Antenna Factor + Cable Loss – Preamplifier Factor
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

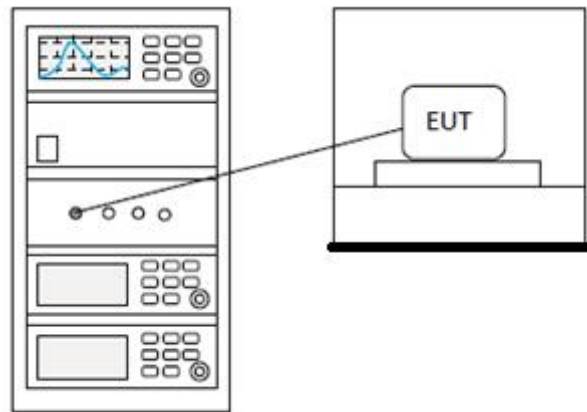
13 CONDUCTED SPURIOUS EMISSIONS

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.6 & Section 11.11
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Aiden
Temperature	25°C
Humidity	54%

13.1 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)).
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13.2 BLOCK DIAGRAM OF TEST SETUP



13.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

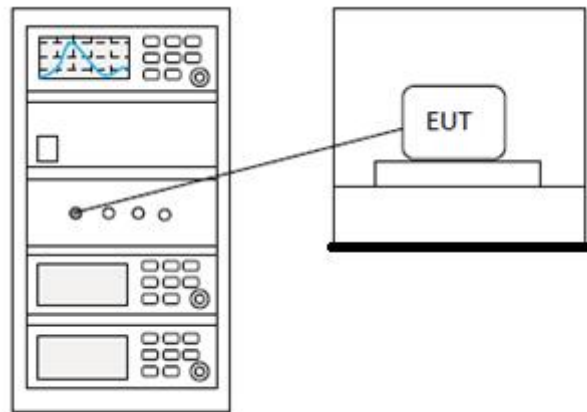
14 CONDUCTED BAND EDGES MEASUREMENT

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	Aiden
Temperature	25°C
Humidity	54%

14.1 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)).
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14.2 BLOCK DIAGRAM OF TEST SETUP



14.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

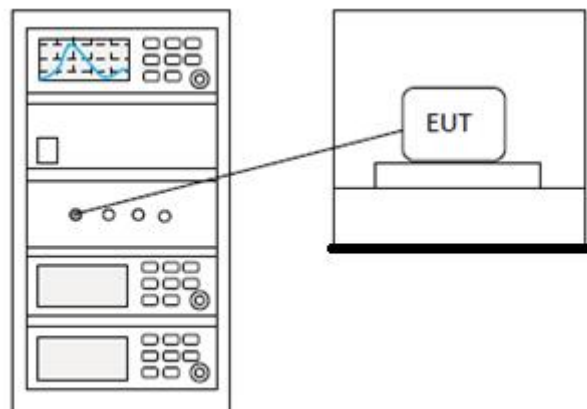
15 MINIMUM 6DB BANDWIDTH

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 11.8.1
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Aiden
Temperature	25°C
Humidity	54%

15.1 LIMITS

Limit:	≥500 kHz
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15.2 BLOCK DIAGRAM OF TEST SETUP



15.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

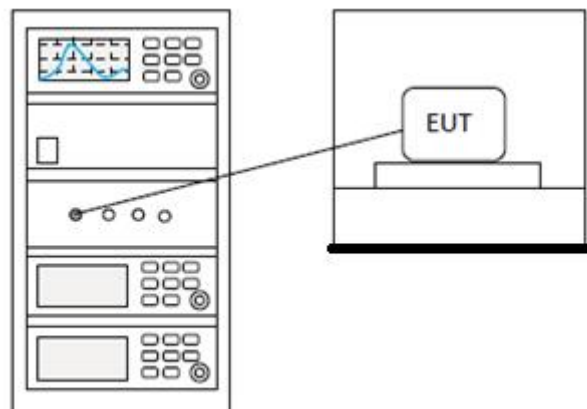
16 POWER SPECTRUM DENSITY

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	Aiden
Temperature	25°C
Humidity	54%

16.1 LIMITS

Limit:	$\leq 8\text{dBm}$ in any 3 kHz band during any time interval of continuous transmission
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16.2 BLOCK DIAGRAM OF TEST SETUP



16.3 TEST DATA

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

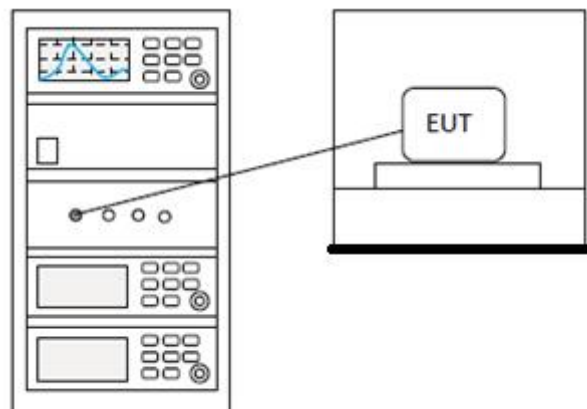
17 CONDUCTED PEAK OUTPUT POWER

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.5 & Section 11.9.1
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Aiden
Temperature	25°C
Humidity	54%

17.1 LIMITS

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥ 50 hopping channels
	0.25 for $25 \leq$ 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 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

BlueAsia

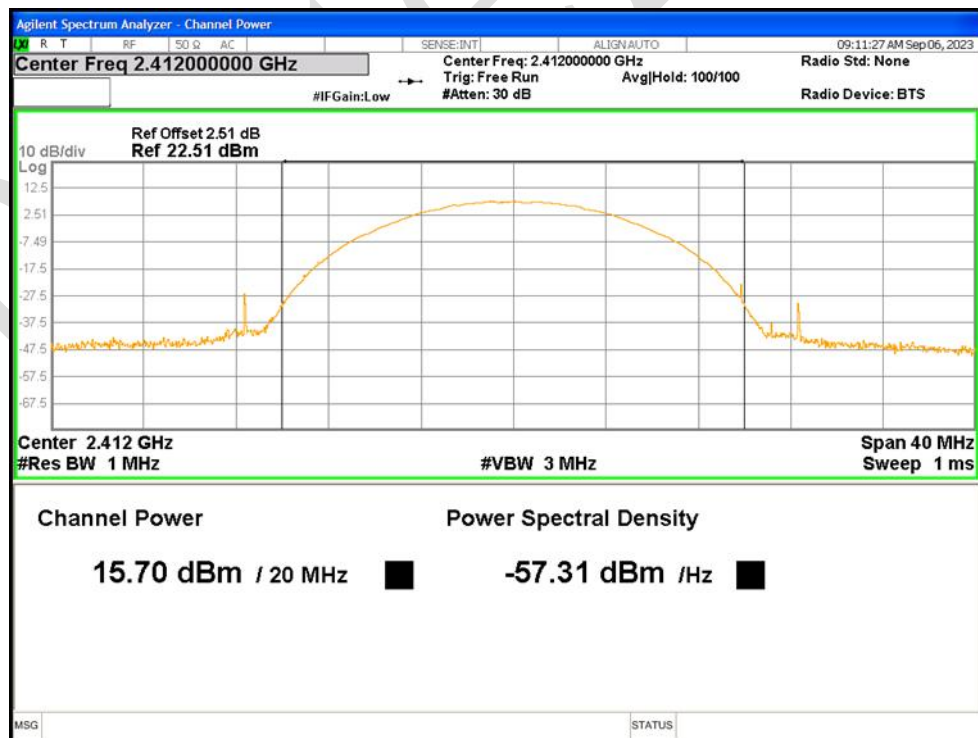
18 APPENDIX

Appendix1

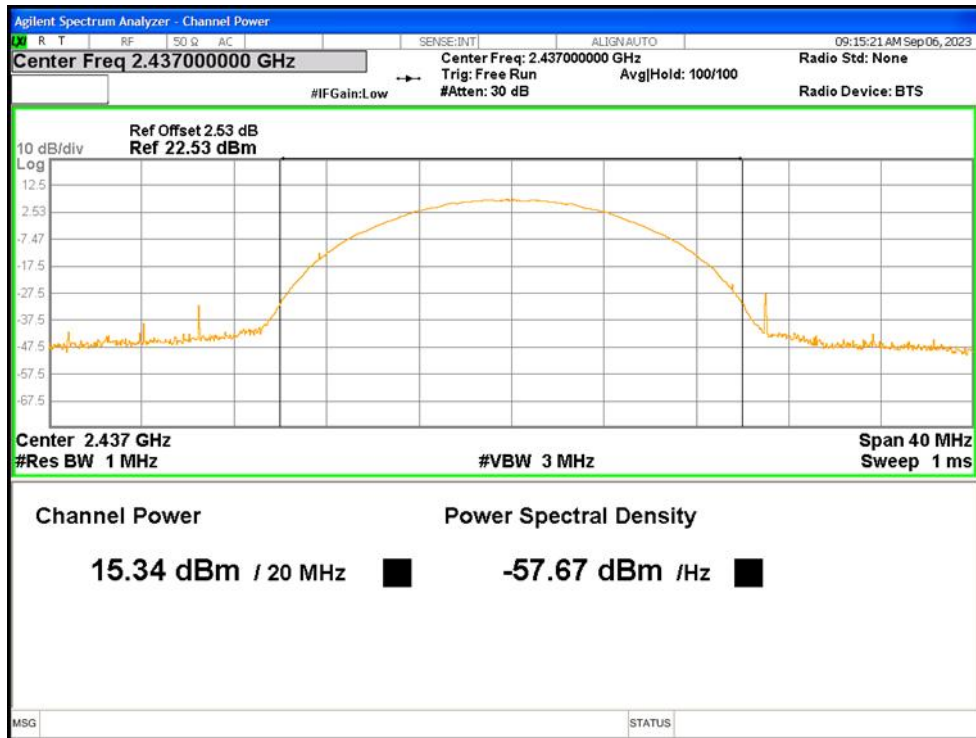
18.1 MAXIMUM CONDUCTED OUTPUT POWER

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	15.70	30	Pass
NVNT	b	2437	Ant1	15.34	30	Pass
NVNT	b	2462	Ant1	15.27	30	Pass
NVNT	g	2412	Ant1	15.35	30	Pass
NVNT	g	2437	Ant1	15.75	30	Pass
NVNT	g	2462	Ant1	15.45	30	Pass
NVNT	n20	2412	Ant1	15.56	30	Pass
NVNT	n20	2437	Ant1	15.73	30	Pass
NVNT	n20	2462	Ant1	15.86	30	Pass
NVNT	N40	2422	Ant1	15.70	30	Pass
NVNT	N40	2437	Ant1	15.89	30	Pass
NVNT	N40	2452	Ant1	15.63	30	Pass

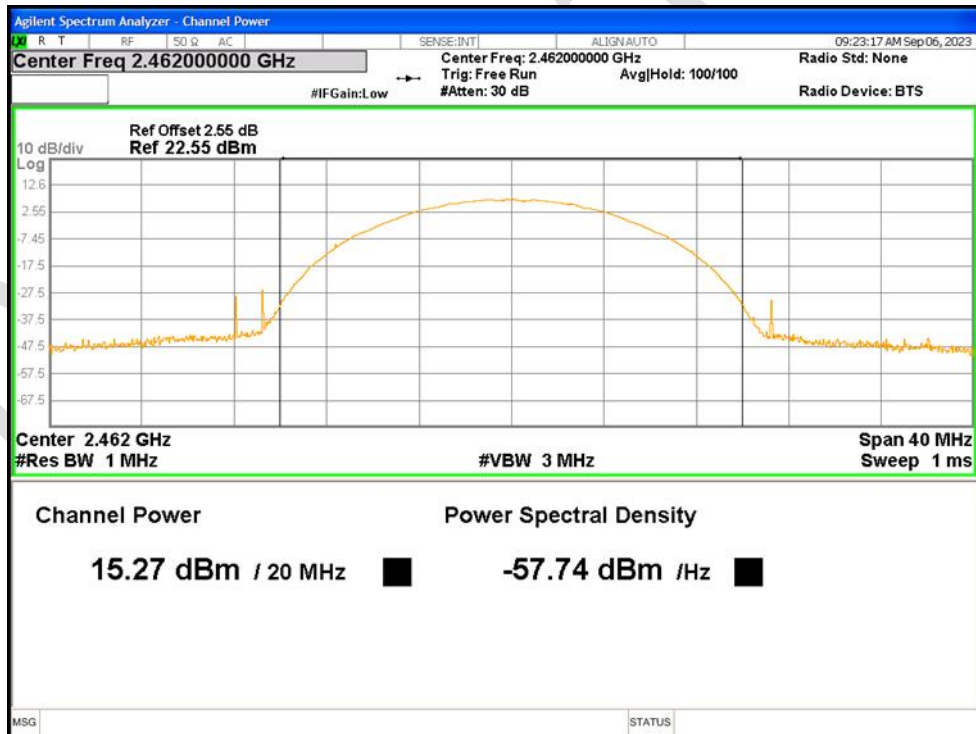
Power NVNT b 2412MHz Ant1



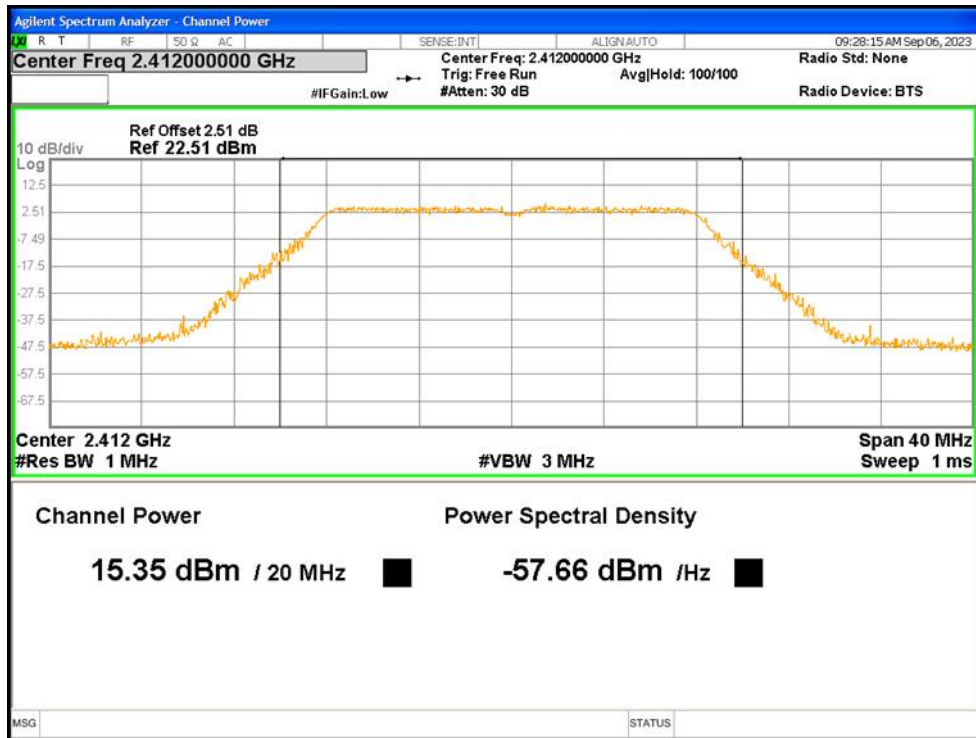
Power NVNT b 2437MHz Ant1



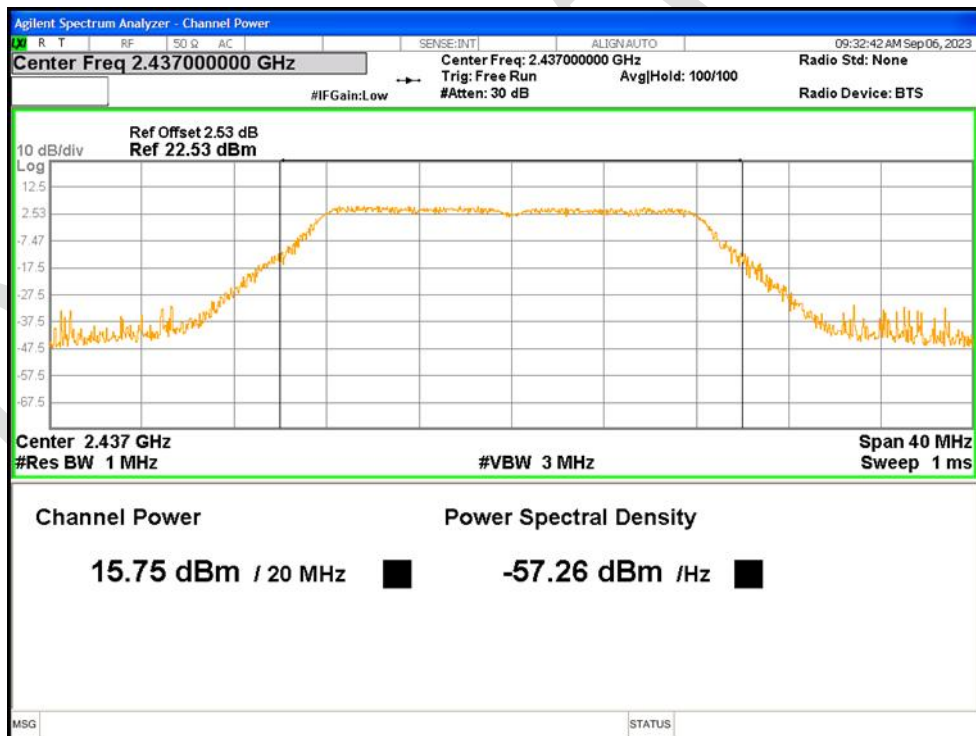
Power NVNT b 2462MHz Ant1



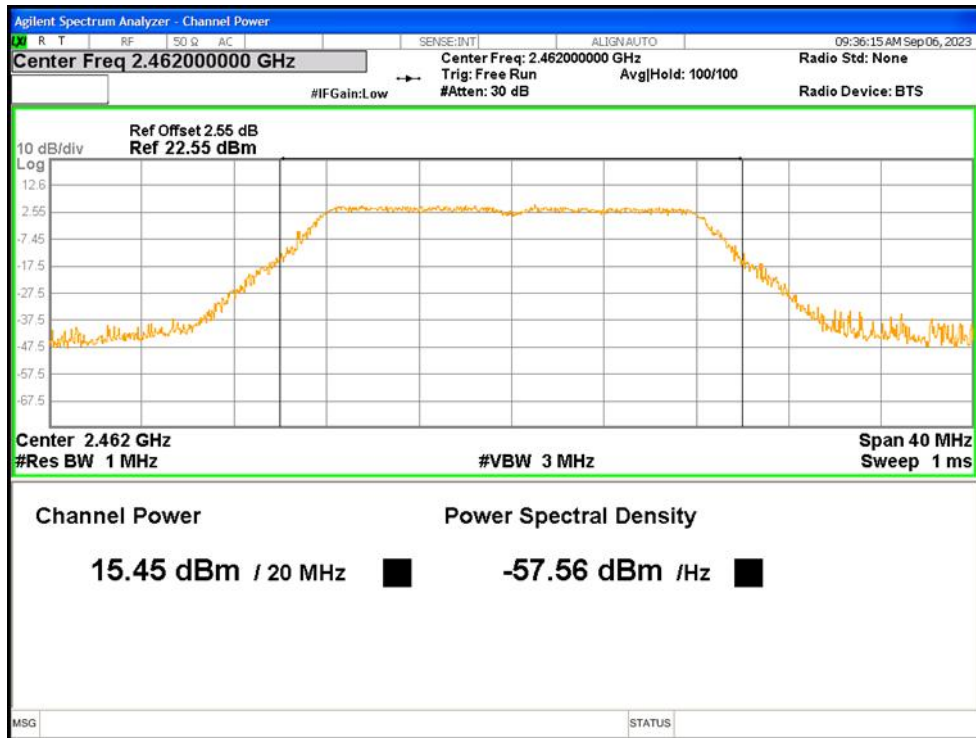
Power NVNT g 2412MHz Ant1



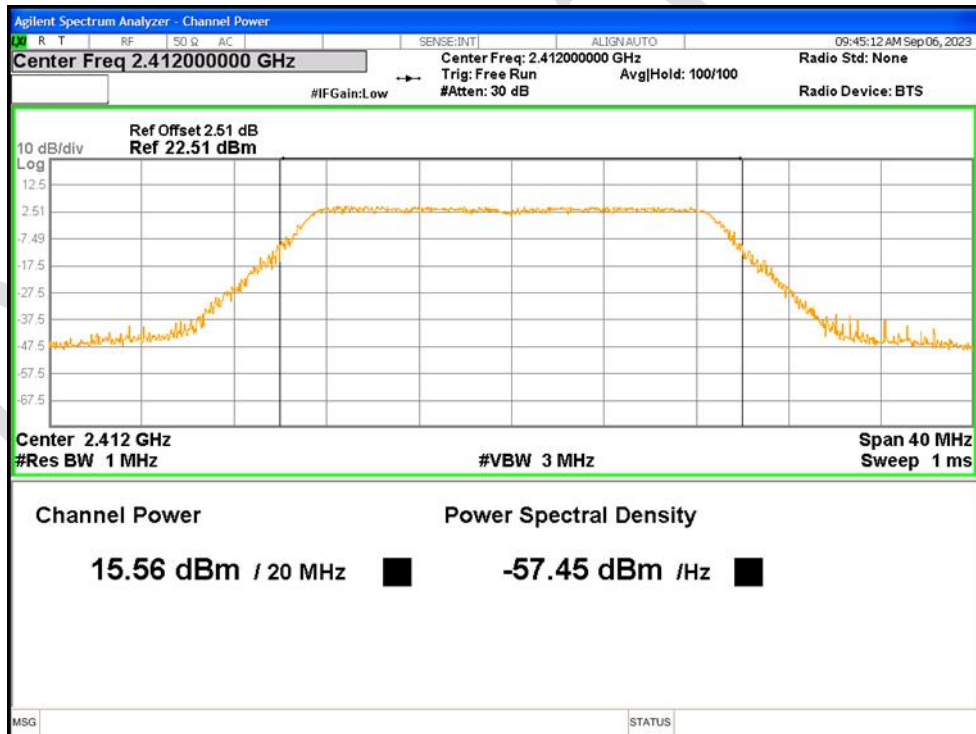
Power NVNT g 2437MHz Ant1



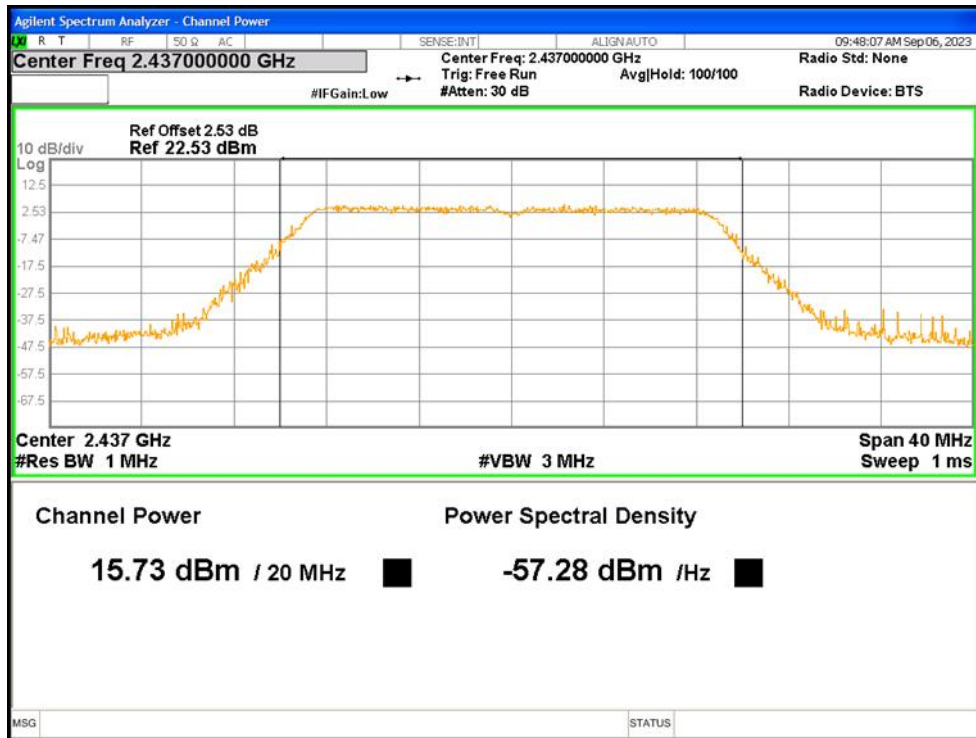
Power NVNT g 2462MHz Ant1



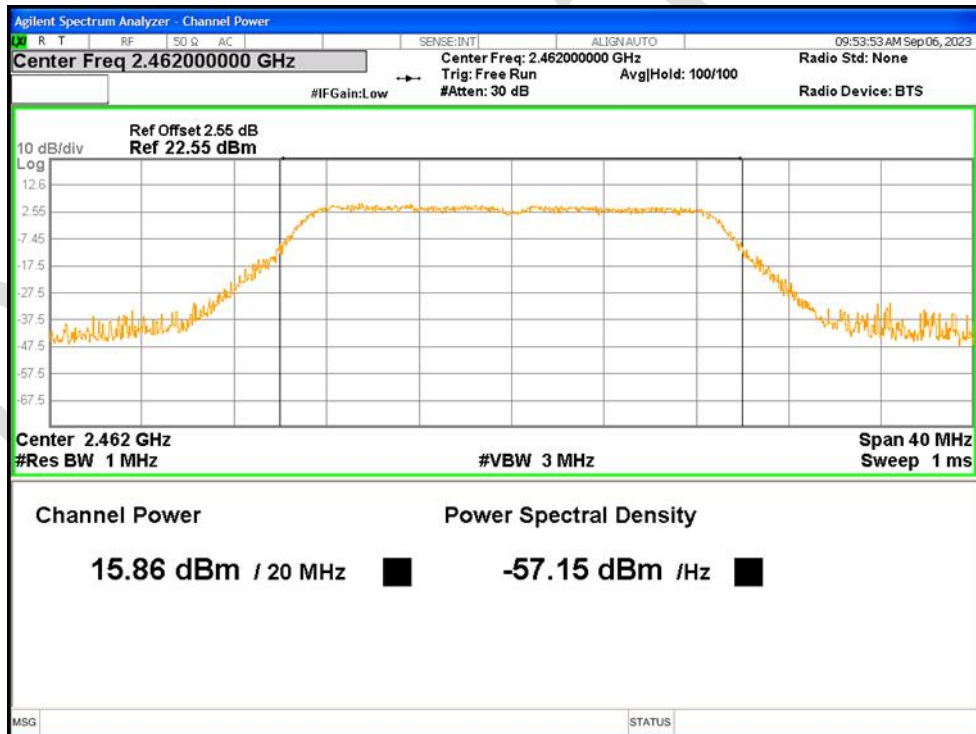
Power NVNT n20 2412MHz Ant1



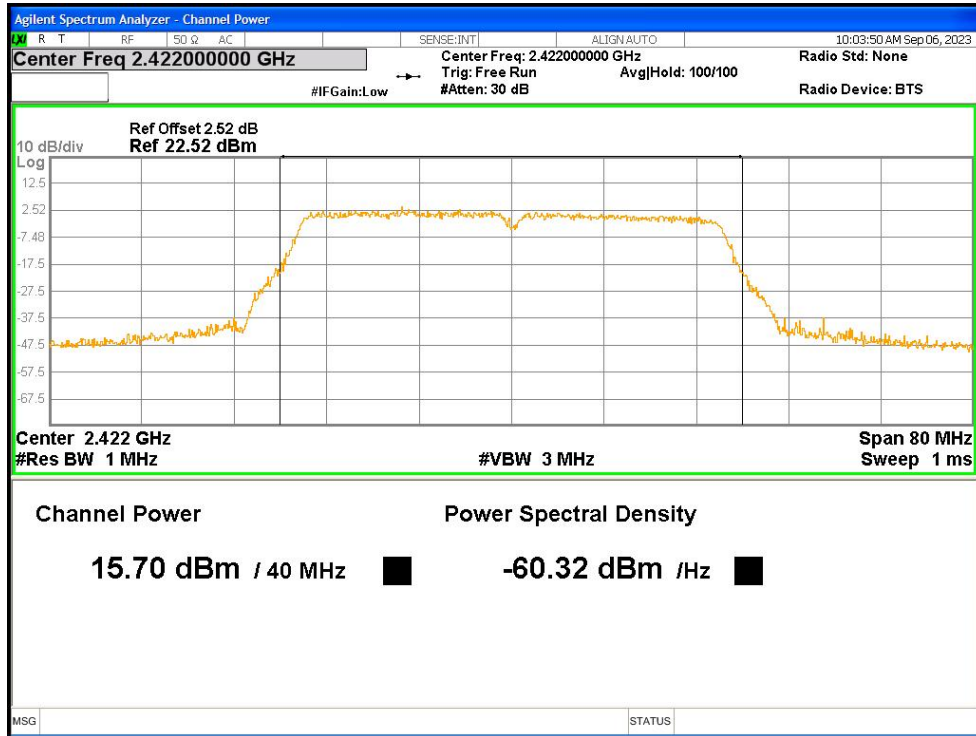
Power NVNT n20 2437MHz Ant1



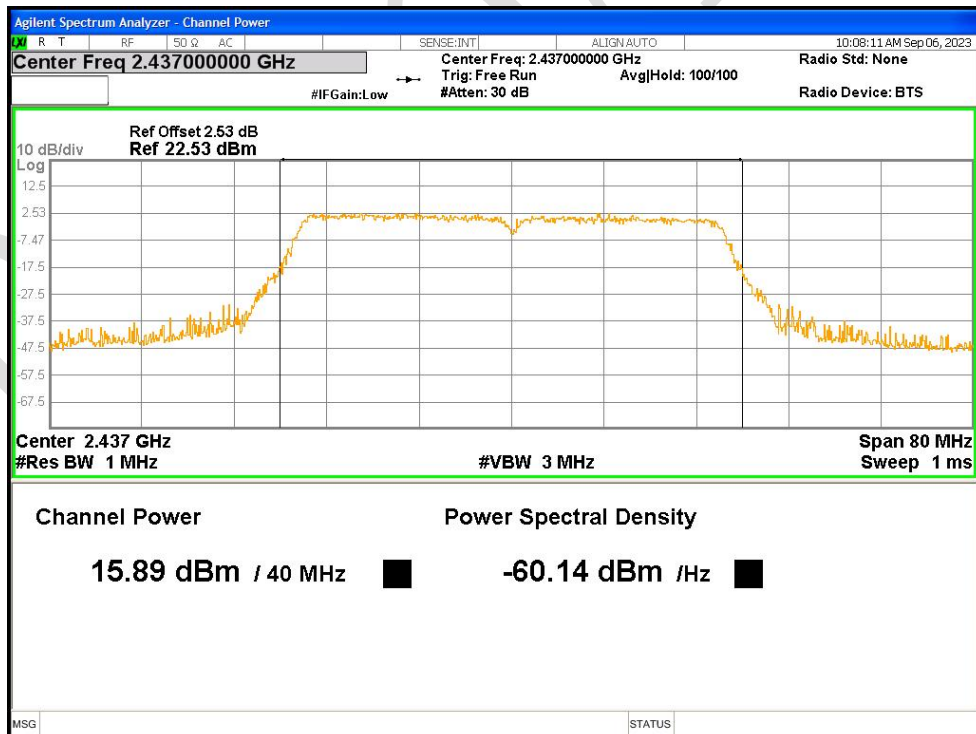
Power NVNT n20 2462MHz Ant1



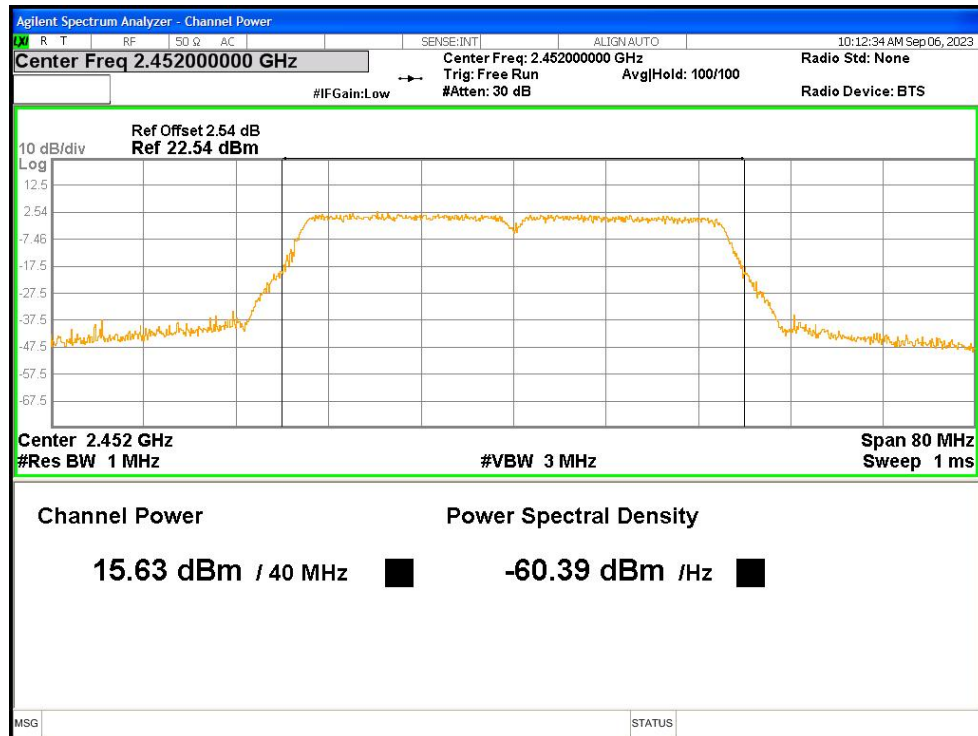
Power NVNT n40 2422MHz Ant1



Power NVNT n40 2437MHz Ant1



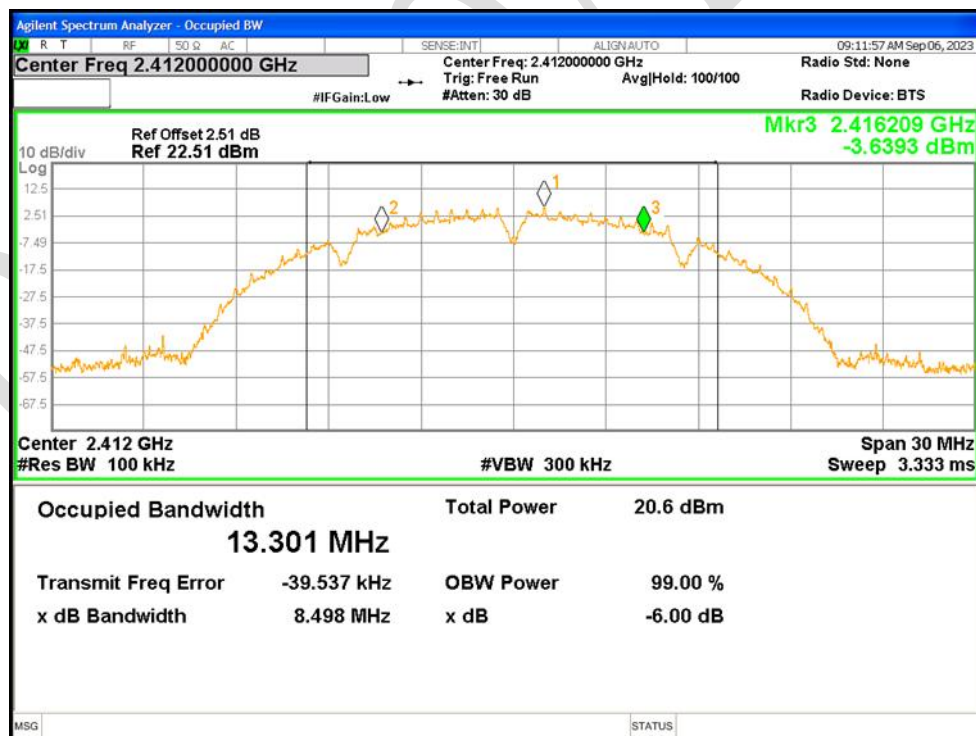
Power NVNT n40 2452MHz Ant1



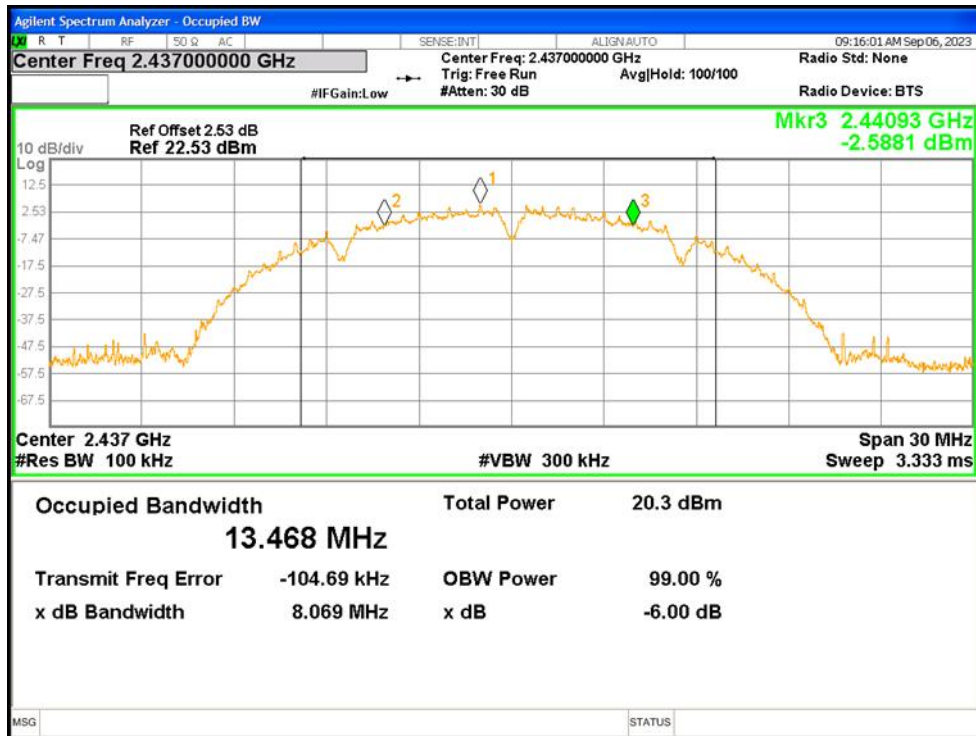
18.2 -6DB BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.498	0.5	Pass
NVNT	b	2437	Ant1	8.069	0.5	Pass
NVNT	b	2462	Ant1	8.074	0.5	Pass
NVNT	g	2412	Ant1	16.340	0.5	Pass
NVNT	g	2437	Ant1	16.36	0.5	Pass
NVNT	g	2462	Ant1	16.33	0.5	Pass
NVNT	n20	2412	Ant1	17.55	0.5	Pass
NVNT	n20	2437	Ant1	17.53	0.5	Pass
NVNT	n20	2462	Ant1	17.32	0.5	Pass
NVNT	n40	2422	Ant1	35.64	0.5	Pass
NVNT	n40	2437	Ant1	35.71	0.5	Pass
NVNT	n40	2452	Ant1	35.86	0.5	Pass

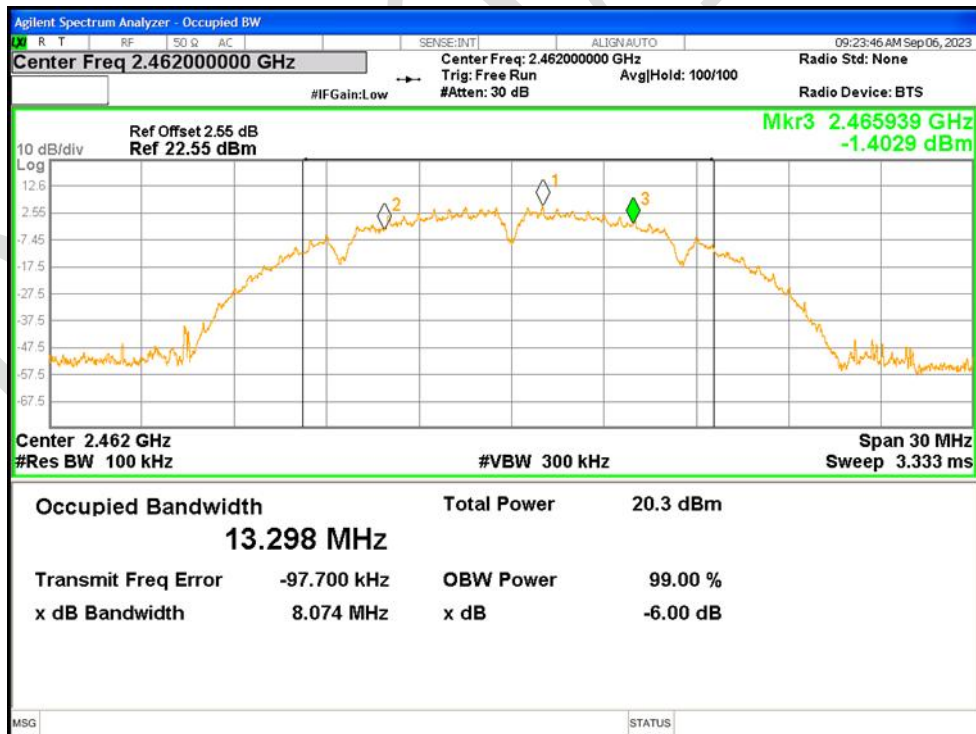
-6dB Bandwidth NVNT b 2412MHz Ant1



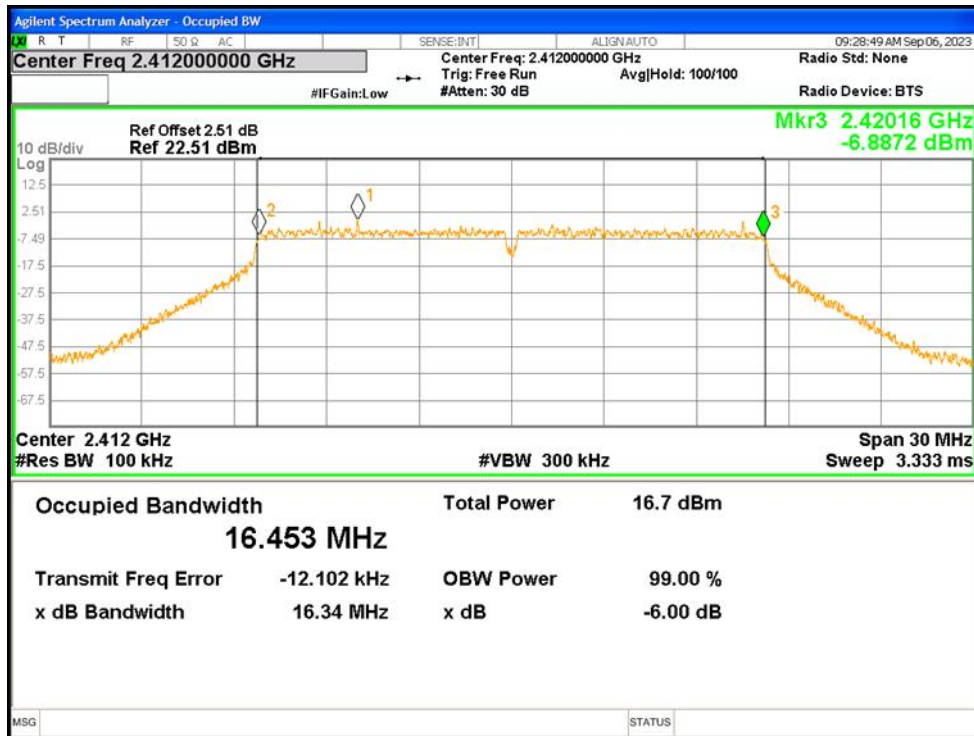
-6dB Bandwidth NVNT b 2437MHz Ant1



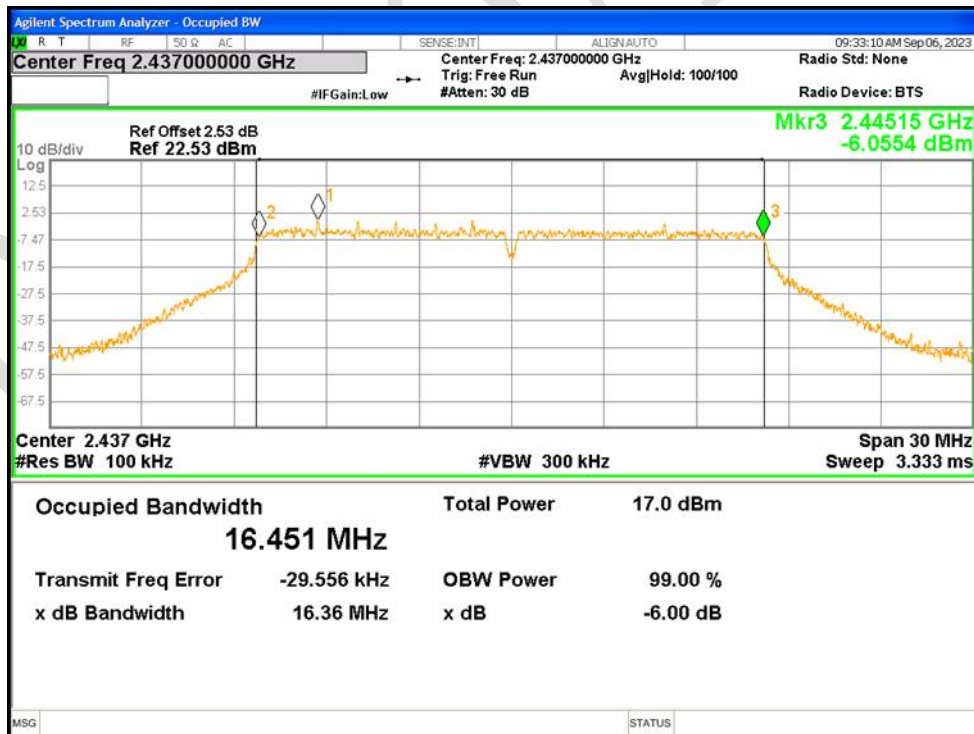
-6dB Bandwidth NVNT b 2462MHz Ant1



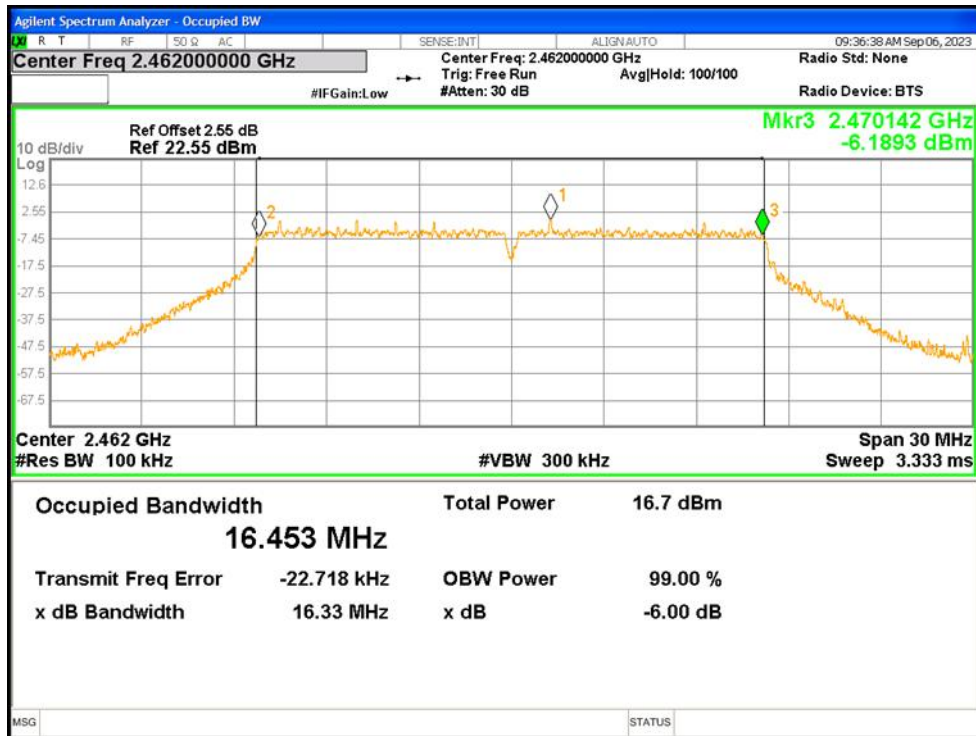
-6dB Bandwidth NVNT g 2412MHz Ant1



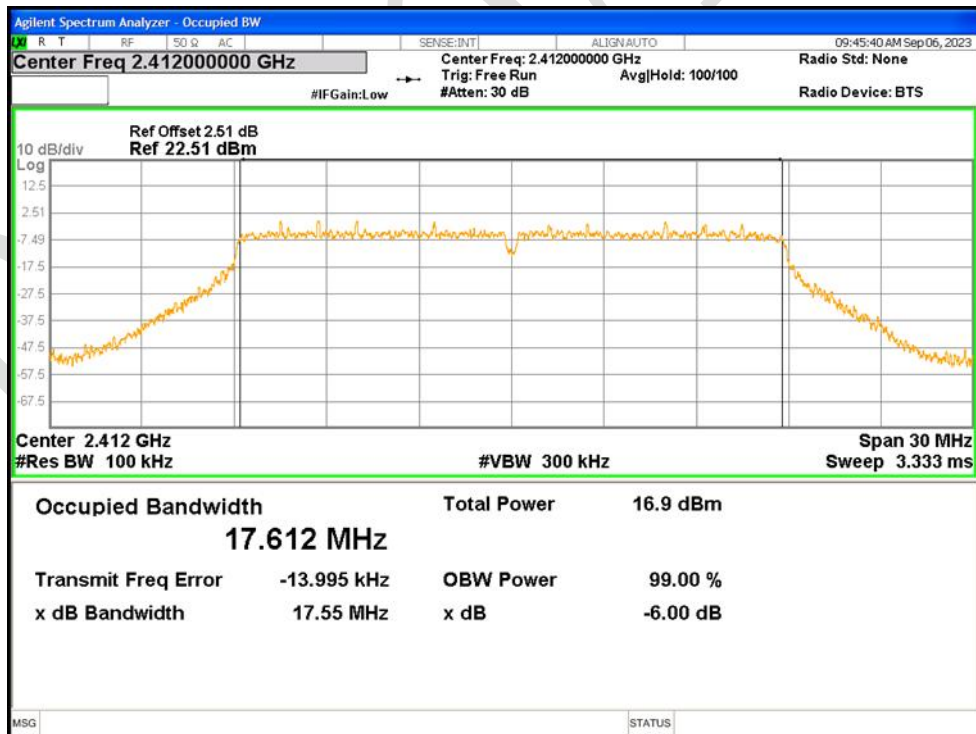
-6dB Bandwidth NVNT g 2437MHz Ant1



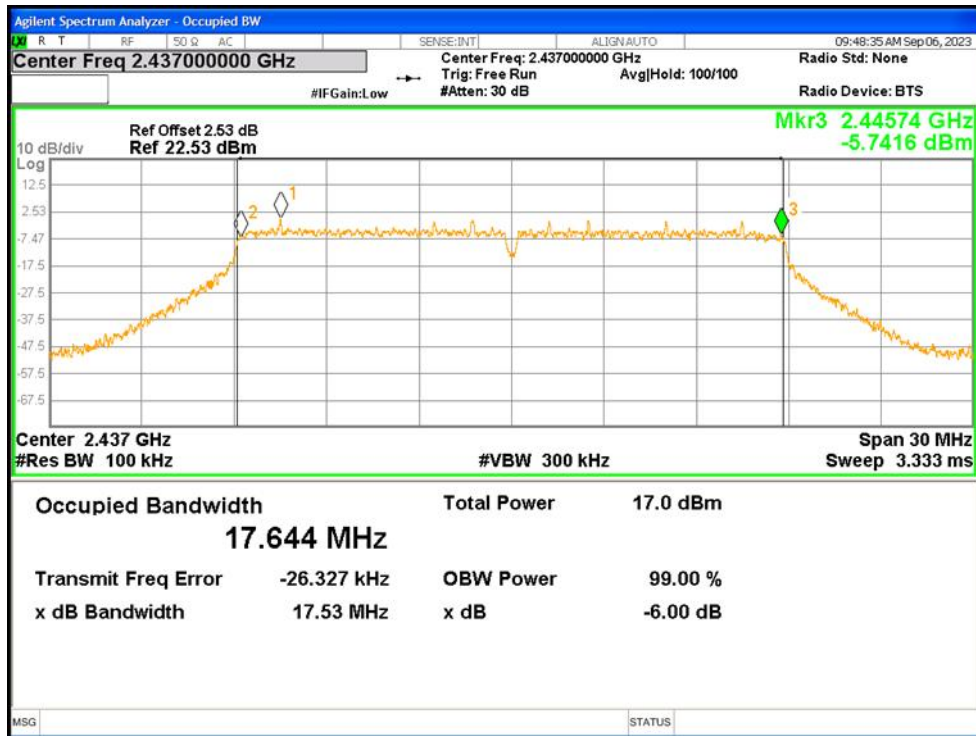
-6dB Bandwidth NVNT g 2462MHz Ant1



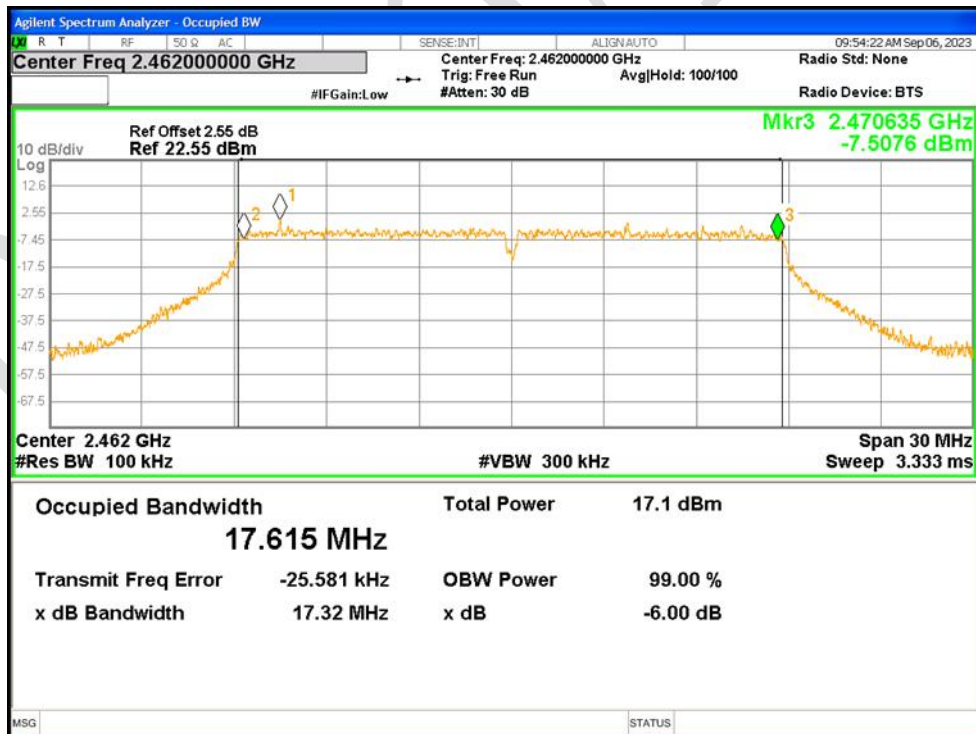
-6dB Bandwidth NVNT n20 2412MHz Ant1



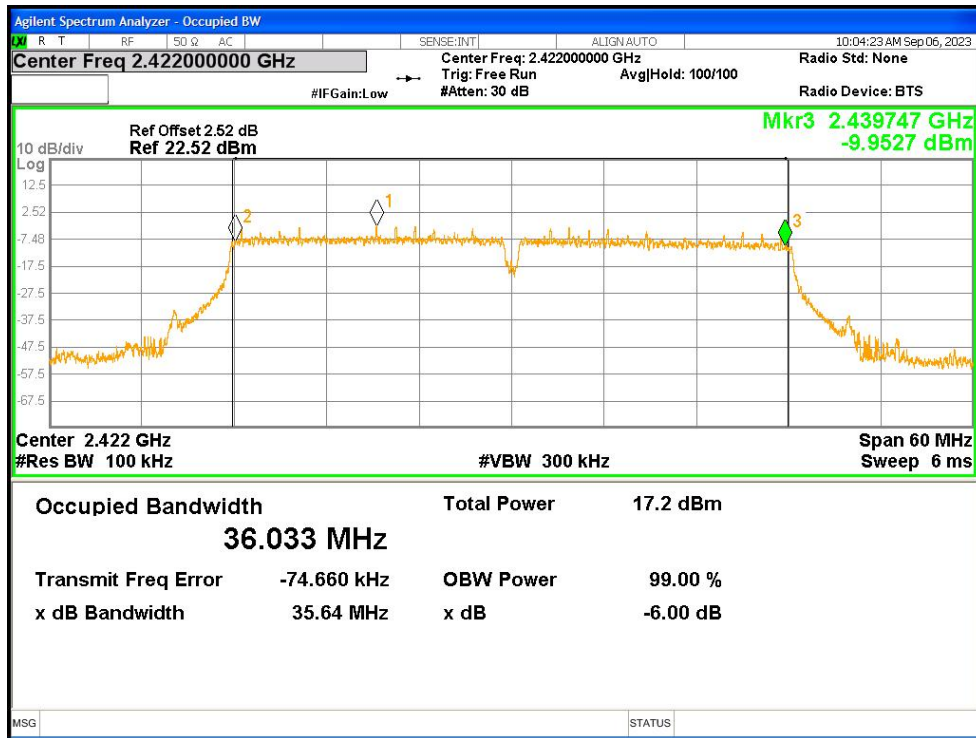
-6dB Bandwidth NVNT n20 2437MHz Ant1



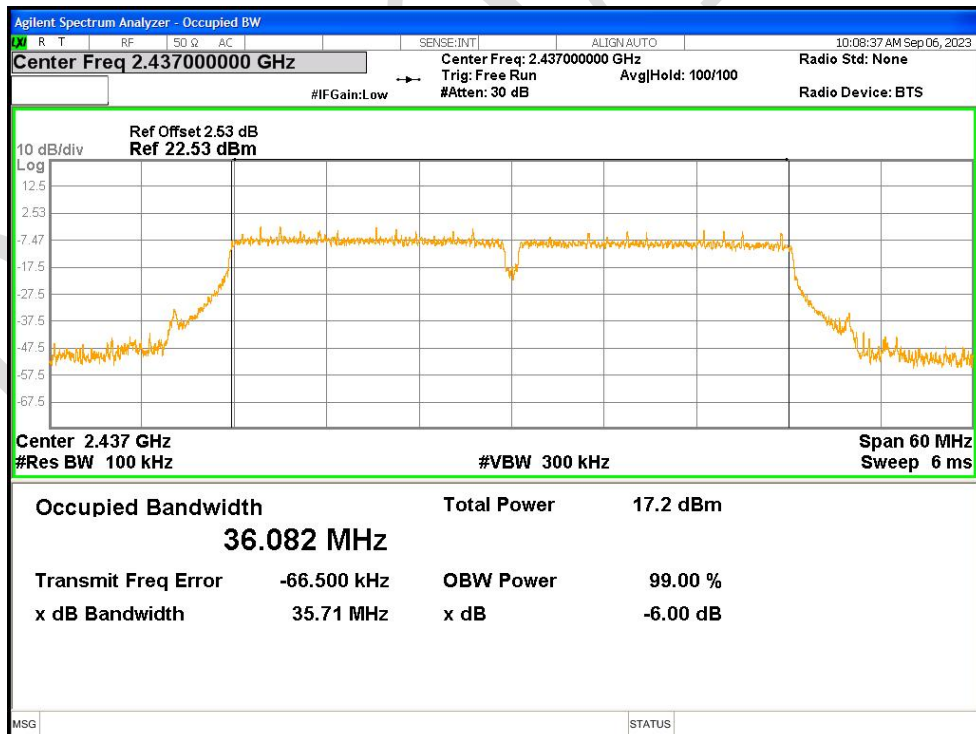
-6dB Bandwidth NVNT n20 2462MHz Ant1



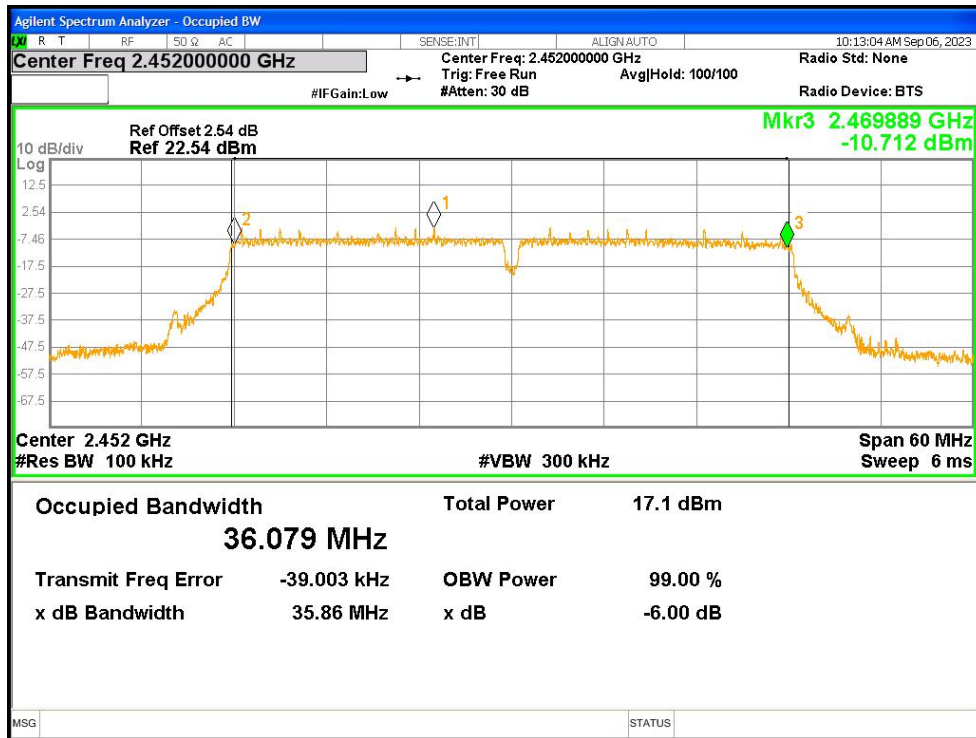
-6dB Bandwidth NVNT n40 2422MHz Ant1



-6dB Bandwidth NVNT n40 2437MHz Ant1



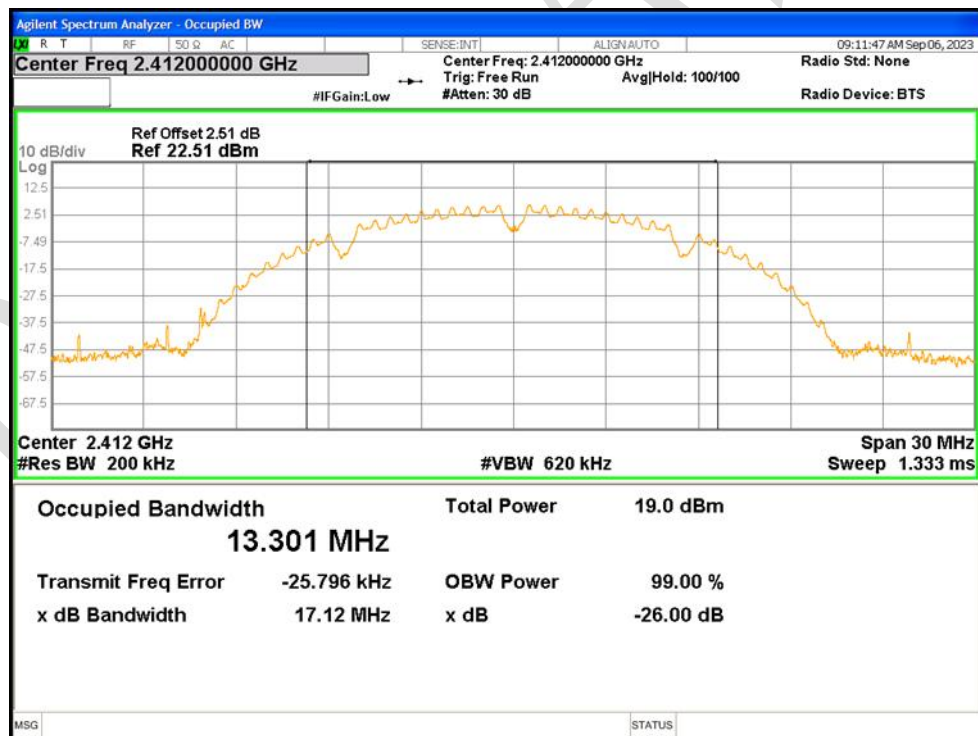
-6dB Bandwidth NVNT n40 2452MHz Ant1



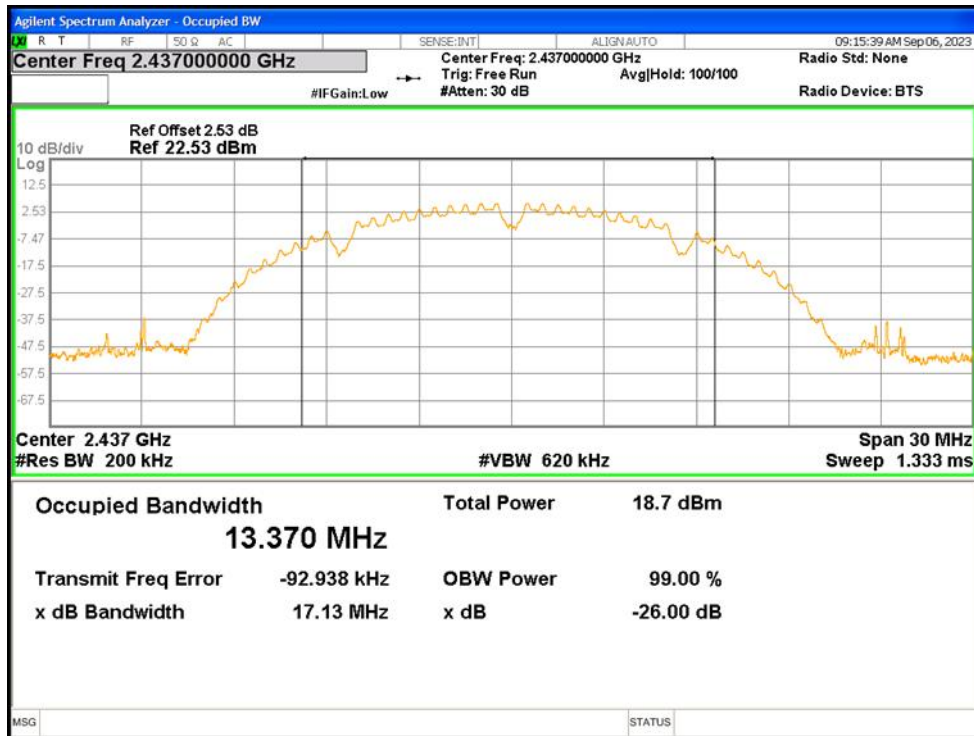
18.3 OCCUPIED CHANNEL BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	13.301
NVNT	b	2437	Ant1	13.370
NVNT	b	2462	Ant1	13.309
NVNT	g	2412	Ant1	16.587
NVNT	g	2437	Ant1	16.589
NVNT	g	2462	Ant1	16.587
NVNT	n20	2412	Ant1	17.673
NVNT	n20	2437	Ant1	17.693
NVNT	n20	2462	Ant1	17.665
NVNT	n40	2422	Ant1	36.142
NVNT	n40	2437	Ant1	36.262
NVNT	n40	2452	Ant1	36.215

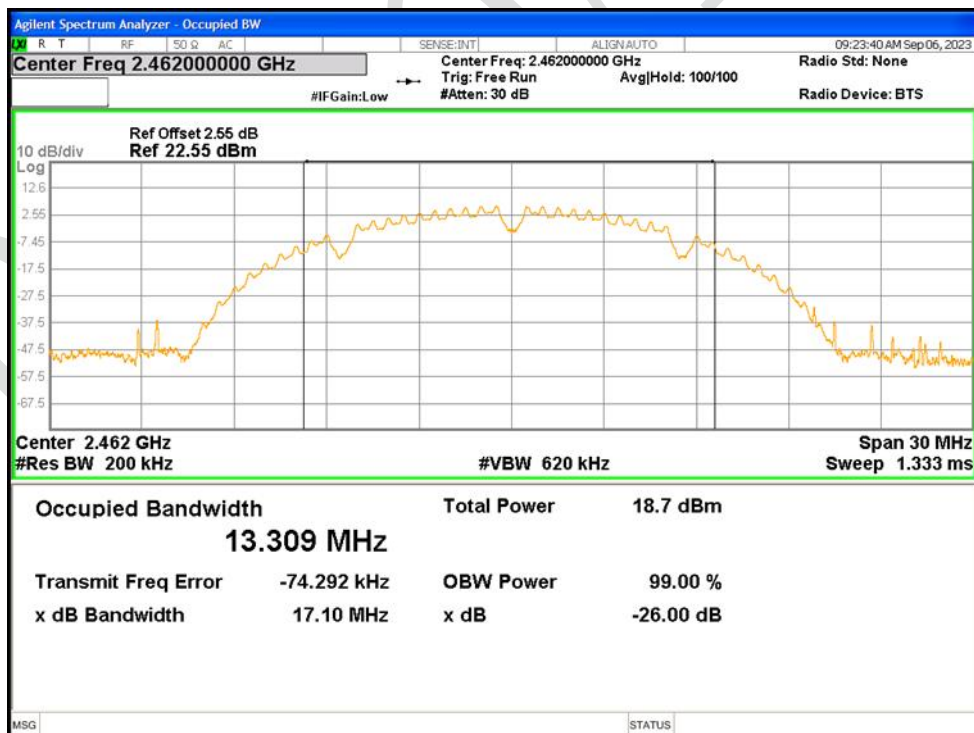
OBW NVNT b 2412MHz Ant1



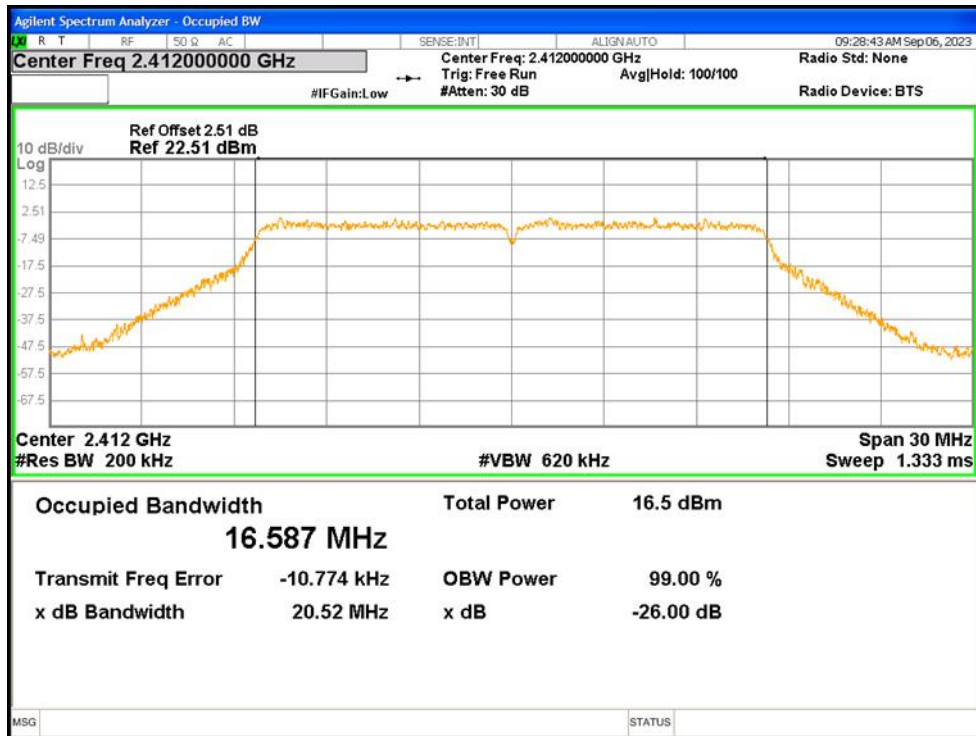
OBW NVNT b 2437MHz Ant1



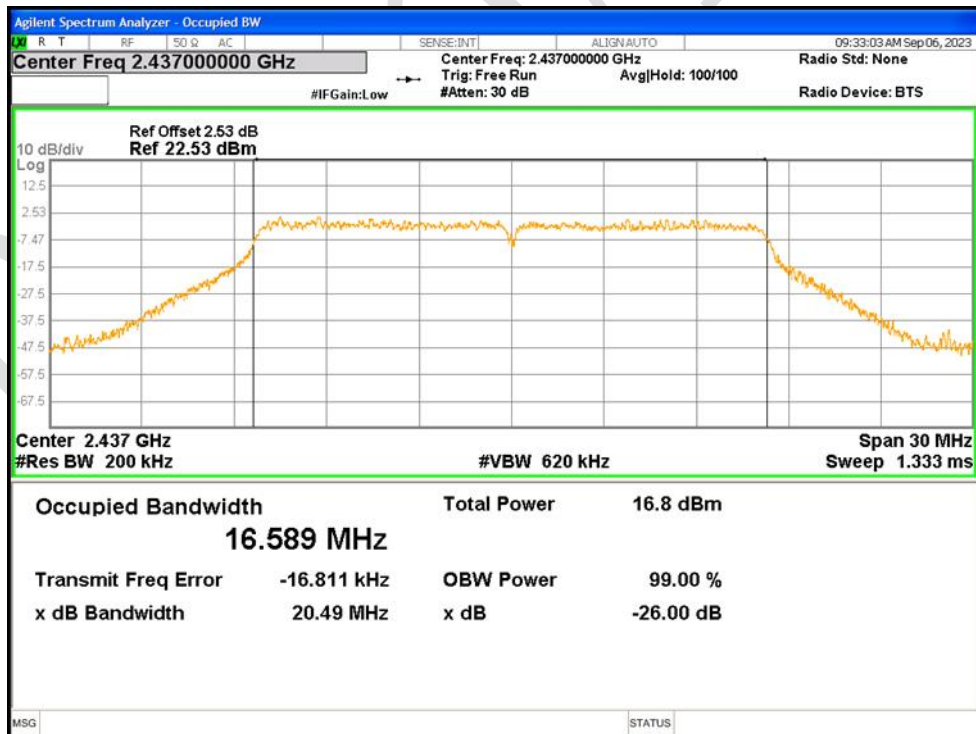
OBW NVNT b 2462MHz Ant1



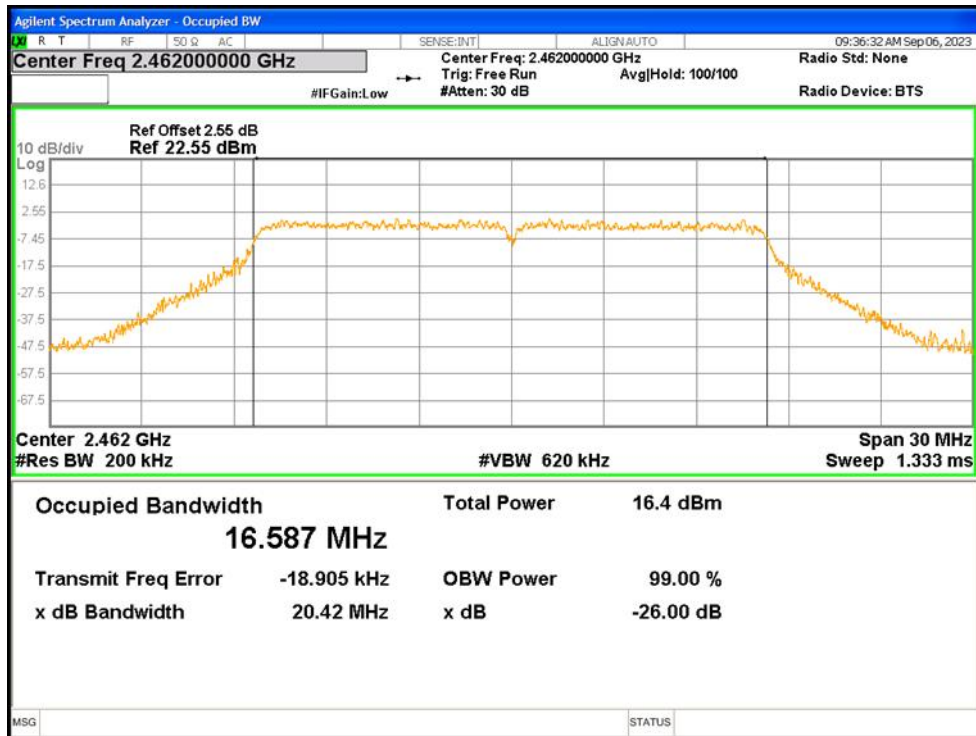
OBW NVNT g 2412MHz Ant1



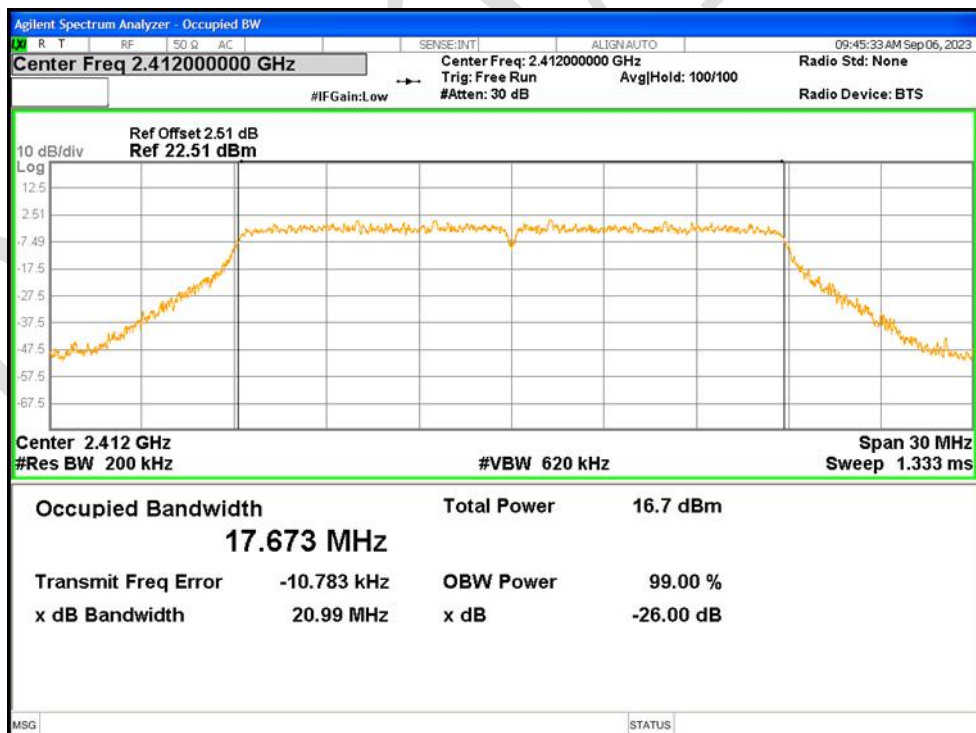
OBW NVNT g 2437MHz Ant1



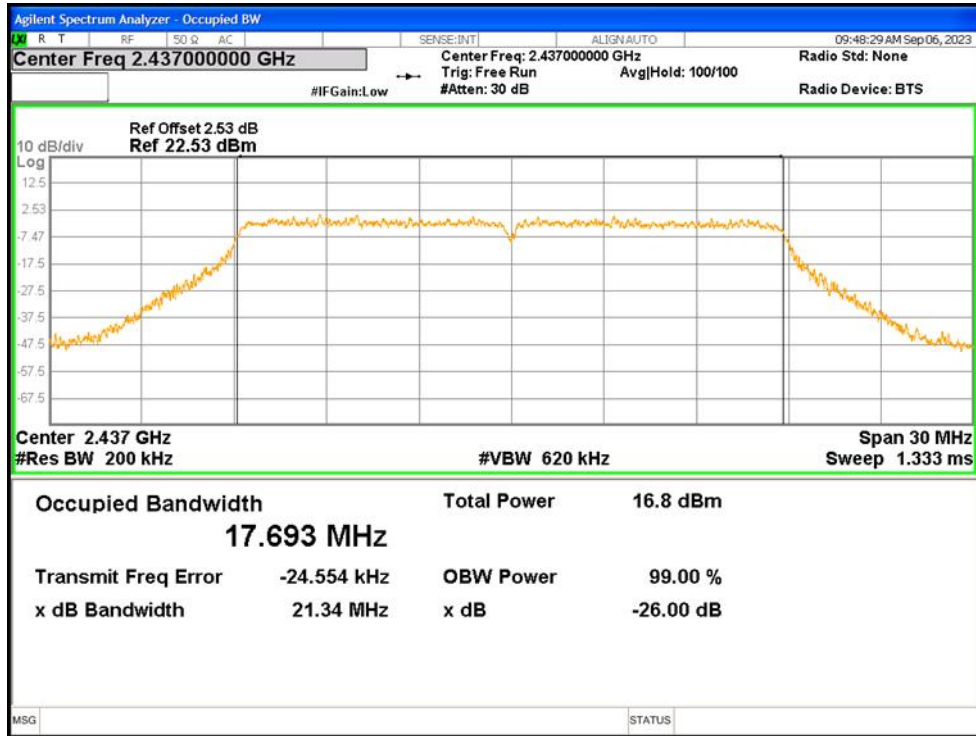
OBW NVNT g 2462MHz Ant1



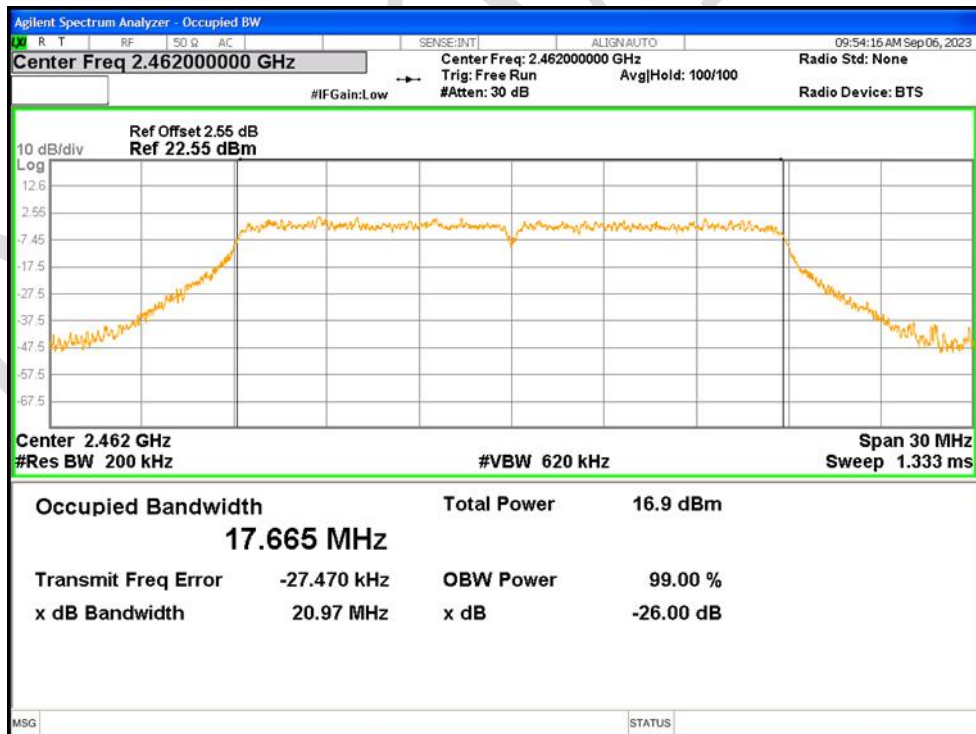
OBW NVNT n20 2412MHz Ant1



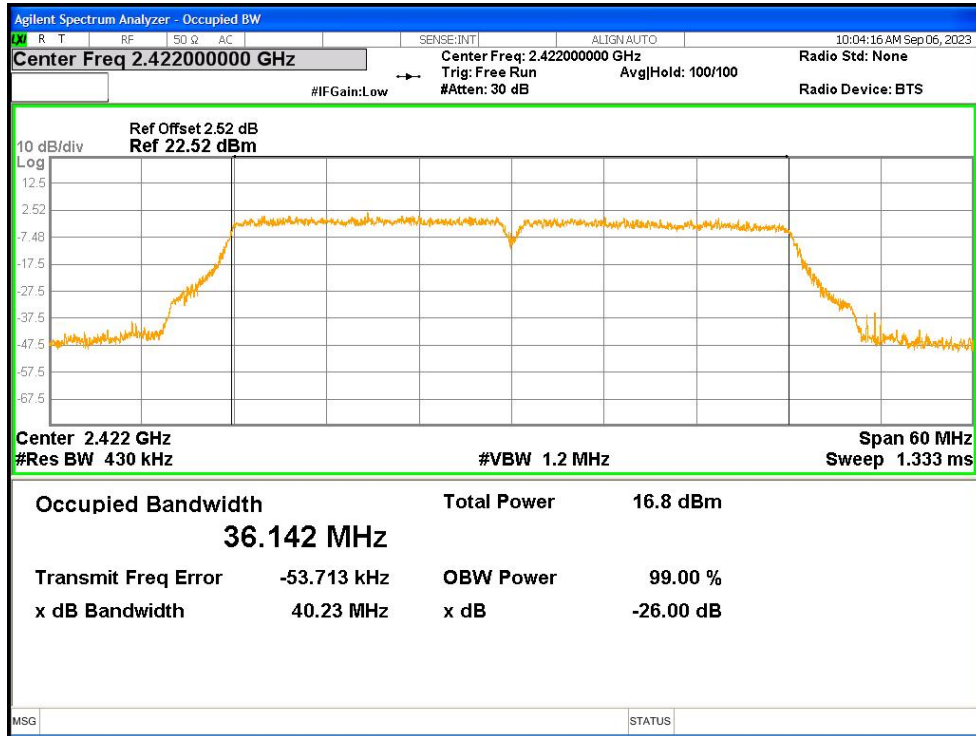
OBW NVNT n20 2437MHz Ant1



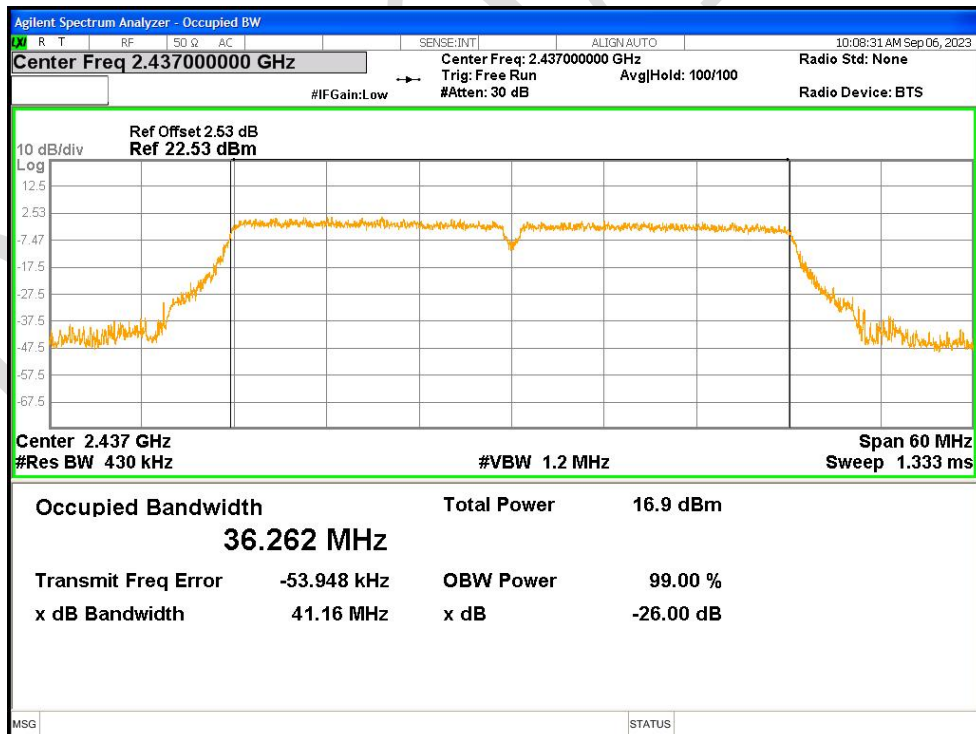
OBW NVNT n20 2462MHz Ant1



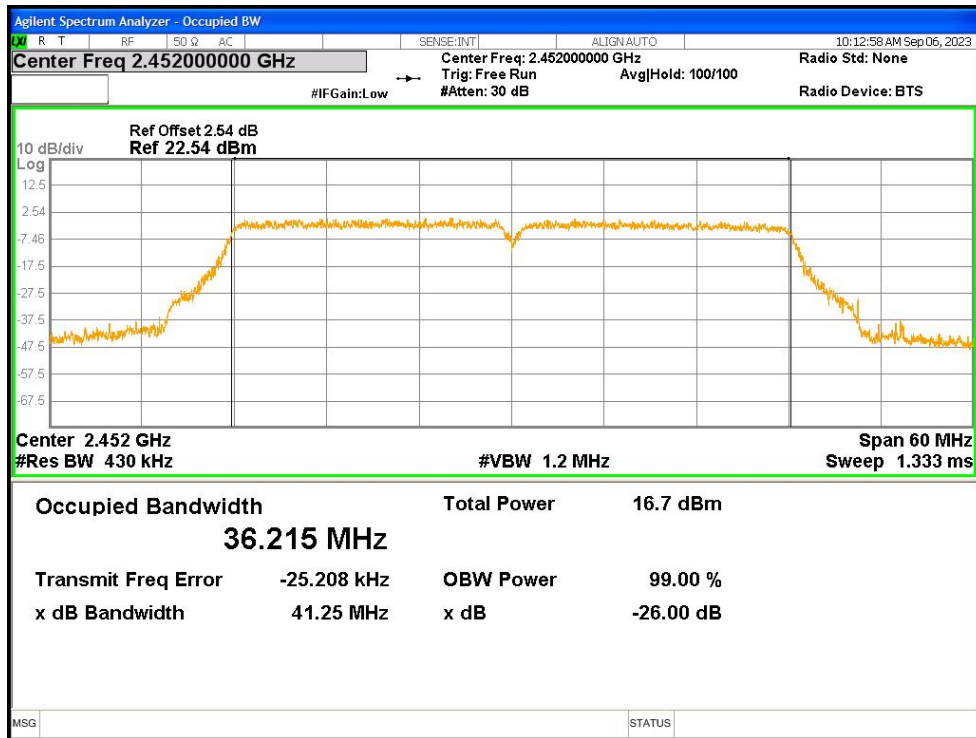
OBW NVNT n40 2422MHz Ant1



OBW NVNT n40 2437MHz Ant1



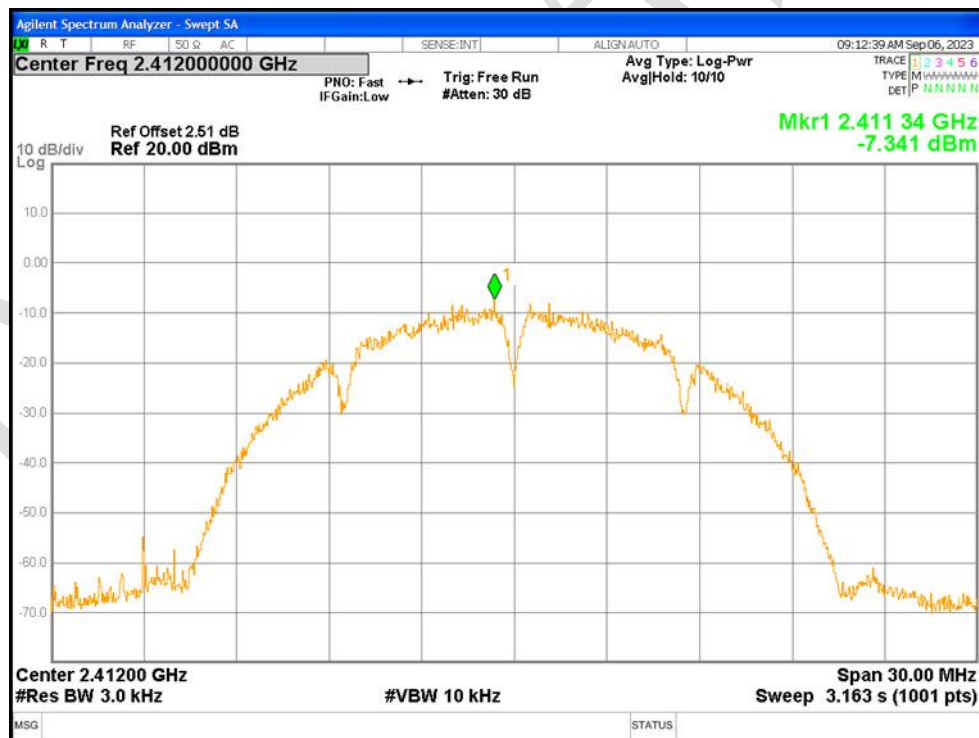
OBW NVNT n40 2452MHz Ant1



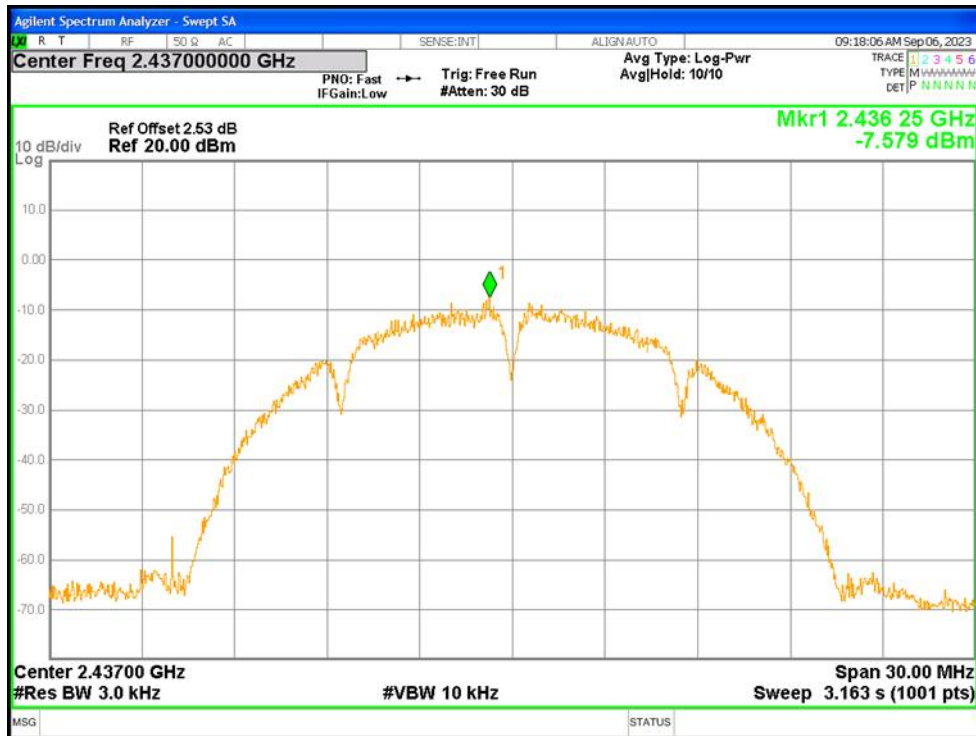
18.4 MAXIMUM POWER SPECTRAL DENSITY LEVEL

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-7.341	8	Pass
NVNT	b	2437	Ant1	-7.579	8	Pass
NVNT	b	2462	Ant1	-8.582	8	Pass
NVNT	g	2412	Ant1	-13.79	8	Pass
NVNT	g	2437	Ant1	-13.387	8	Pass
NVNT	g	2462	Ant1	-14.303	8	Pass
NVNT	n20	2412	Ant1	-14.172	8	Pass
NVNT	n20	2437	Ant1	-13.868	8	Pass
NVNT	n20	2462	Ant1	-13.814	8	Pass
NVNT	n40	2422	Ant1	-16.596	8	Pass
NVNT	n40	2437	Ant1	-15.747	8	Pass
NVNT	n40	2452	Ant1	-17.428	8	Pass

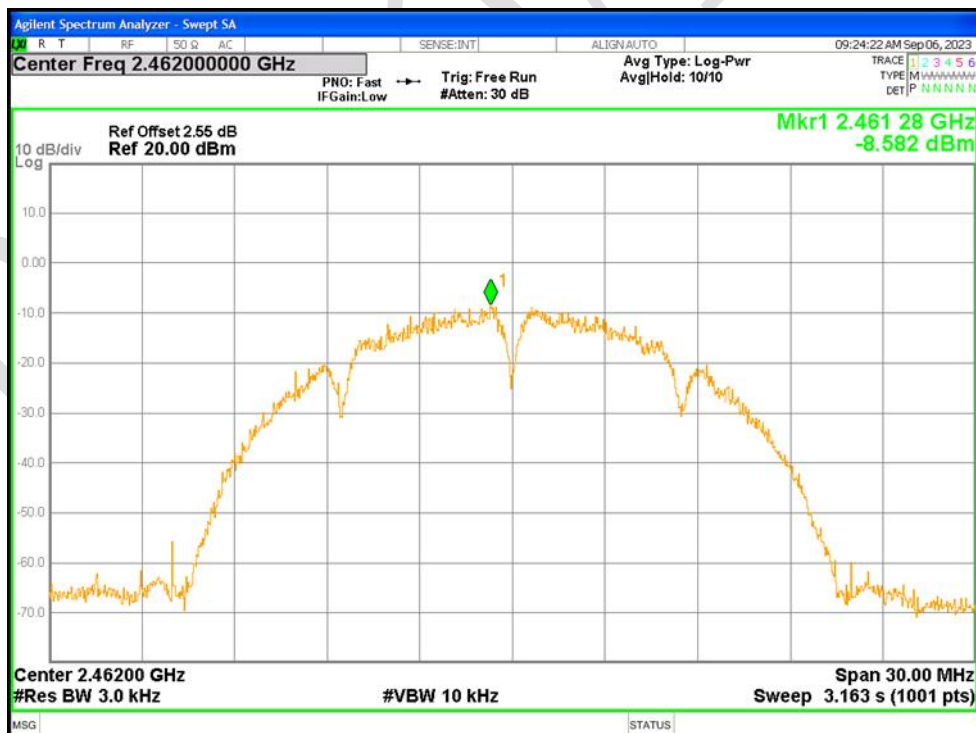
PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1



PSD NVNT b 2462MHz Ant1



PSD NVNT g 2412MHz Ant1



PSD NVNT g 2437MHz Ant1

