

[TestMode: Tx mode]; [Line: Neutral] ;[Power:AC120V/60Hz]

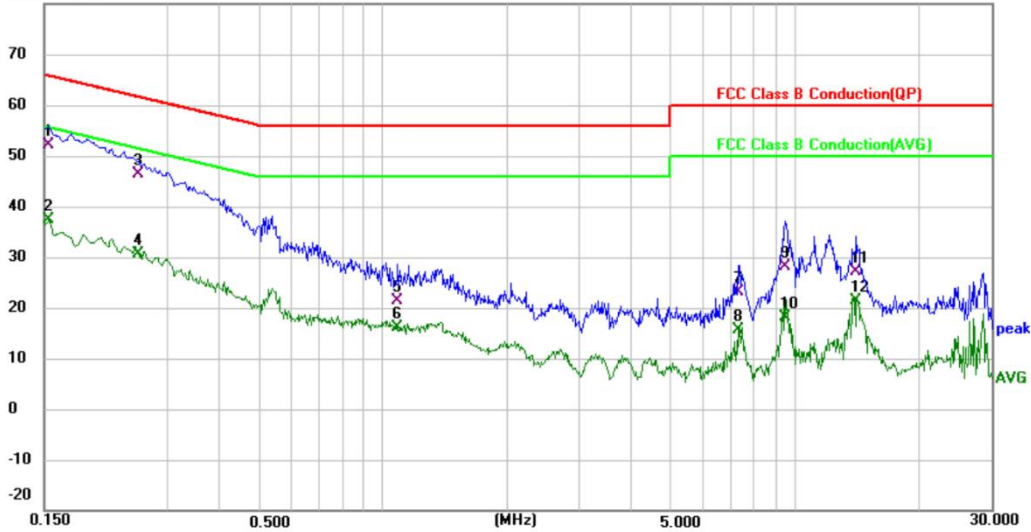
Conducted Emission Measurement

Project No.: CE

Data :#13

2024/4/19

80.0 dBuV



Site

Limit: FCC Class B Conduction(QP)

EUT: Android TV Box

M/N: MODEL X

Mode: 2.4GWIFI Mode

Note:

Phase:

N

Power:

Distance:

RBW: 9 KHz

VBW: 30 KHz

Temperature: (C)

Humidity: %RH

Sweep Time: 10 ms

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree	Detector	Comment
1	*	0.1539	41.94	10.19	52.13	65.79	-13.66			QP	
2		0.1539	27.31	10.19	37.50	55.79	-18.29			AVG	
3		0.2535	36.06	10.38	46.44	61.64	-15.20			QP	
4		0.2535	20.27	10.38	30.65	51.64	-20.99			AVG	
5		1.0859	11.44	9.87	21.31	56.00	-34.69			QP	
6		1.0859	6.20	9.87	16.07	46.00	-29.93			AVG	
7		7.2660	12.18	11.04	23.22	60.00	-36.78			QP	
8		7.2660	4.47	11.04	15.51	50.00	-34.49			AVG	
9		9.4860	16.81	11.40	28.21	60.00	-31.79			QP	
10		9.4860	6.79	11.40	18.19	50.00	-31.81			AVG	
11		14.0700	28.35	-1.32	27.03	60.00	-32.97			QP	
12		14.0700	22.66	-1.32	21.34	50.00	-28.66			AVG	

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

<Reference Only

Receiver: ESPI_1

Spectrum Analyzer: ESPI

L.I.S.N:

Engineer Signature:

Test Result: Pass

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss.

BlueAsia

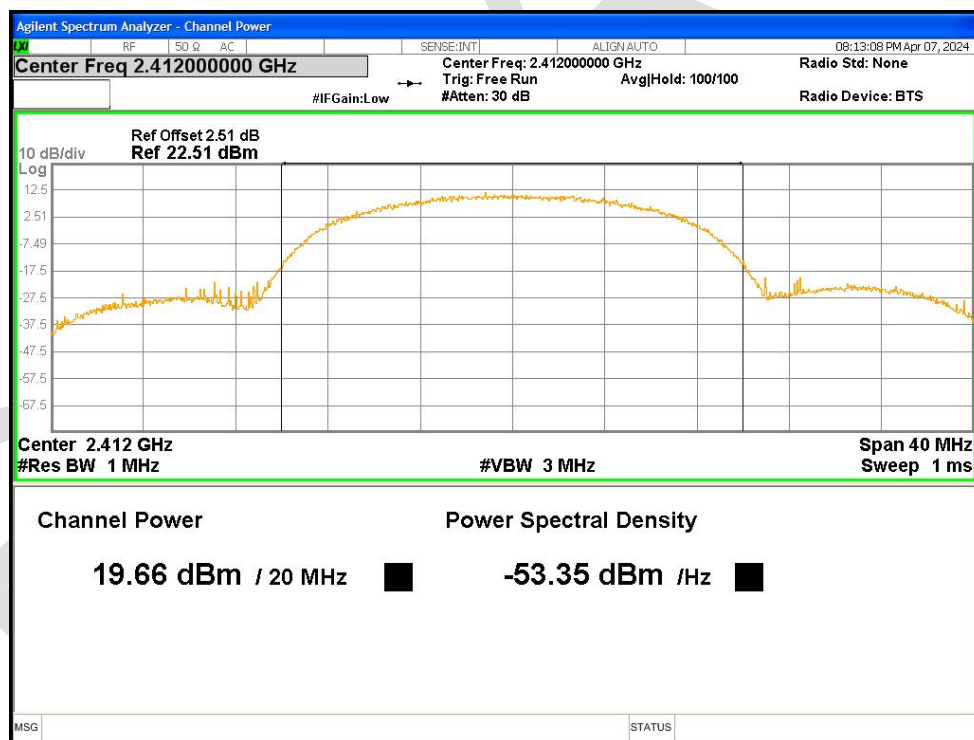
20 APPENDIX

Appendix1

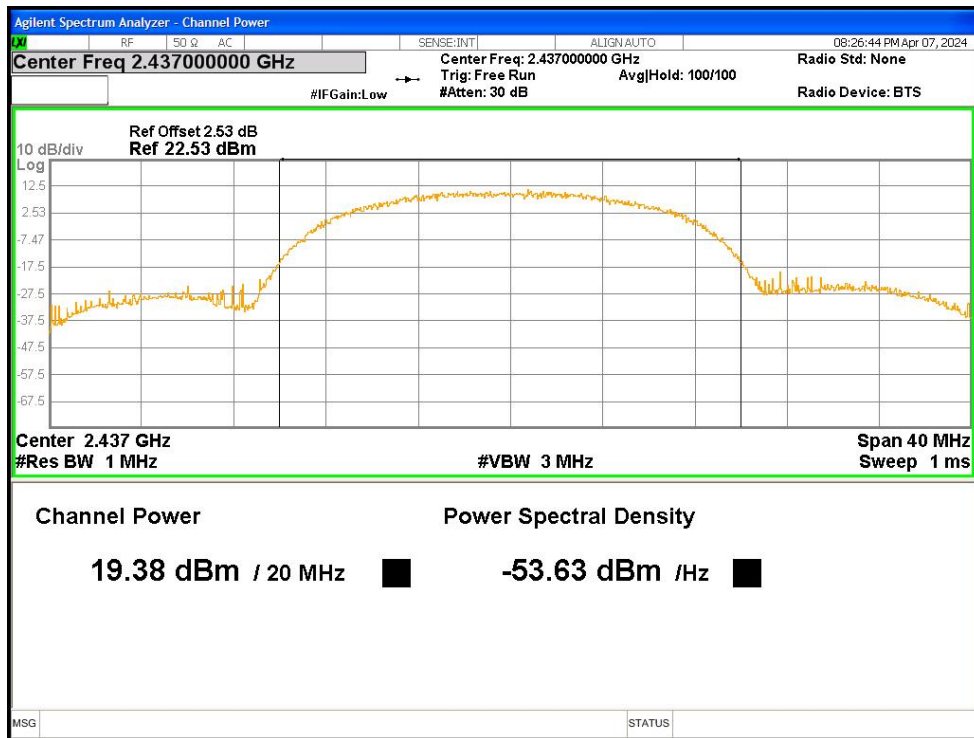
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	19.657	30	Pass
NVNT	b	2437	Ant1	19.383	30	Pass
NVNT	b	2462	Ant1	20.098	30	Pass
NVNT	g	2412	Ant1	22.121	30	Pass
NVNT	g	2437	Ant1	22.591	30	Pass
NVNT	g	2462	Ant1	22.553	30	Pass
NVNT	n20	2412	Ant1	20.835	30	Pass
NVNT	n20	2437	Ant1	20.749	30	Pass
NVNT	n20	2462	Ant1	21.288	30	Pass
NVNT	n40	2422	Ant1	20.970	30	Pass
NVNT	n40	2437	Ant1	20.605	30	Pass
NVNT	n40	2452	Ant1	20.693	30	Pass

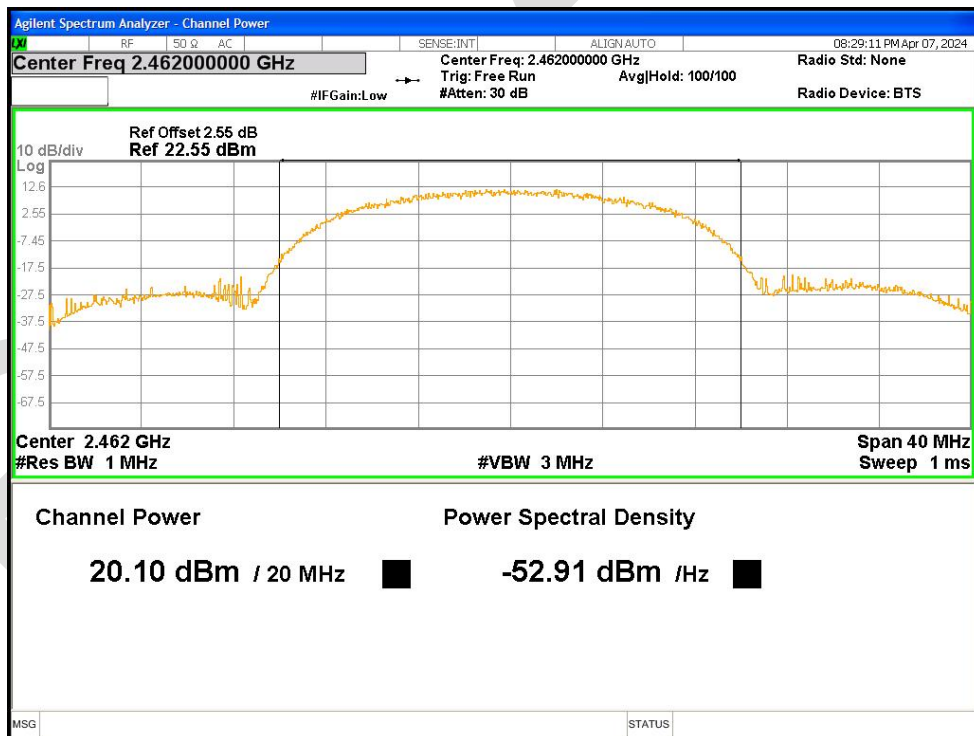
Power NVNT b 2412MHz Ant1



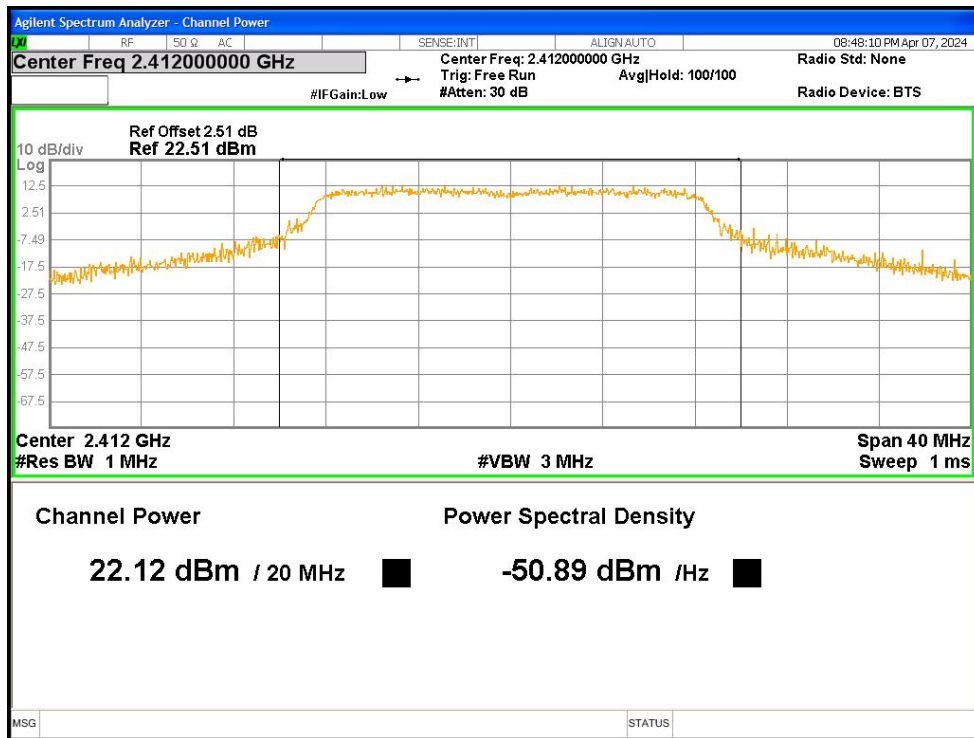
Power NVNT b 2437MHz Ant1



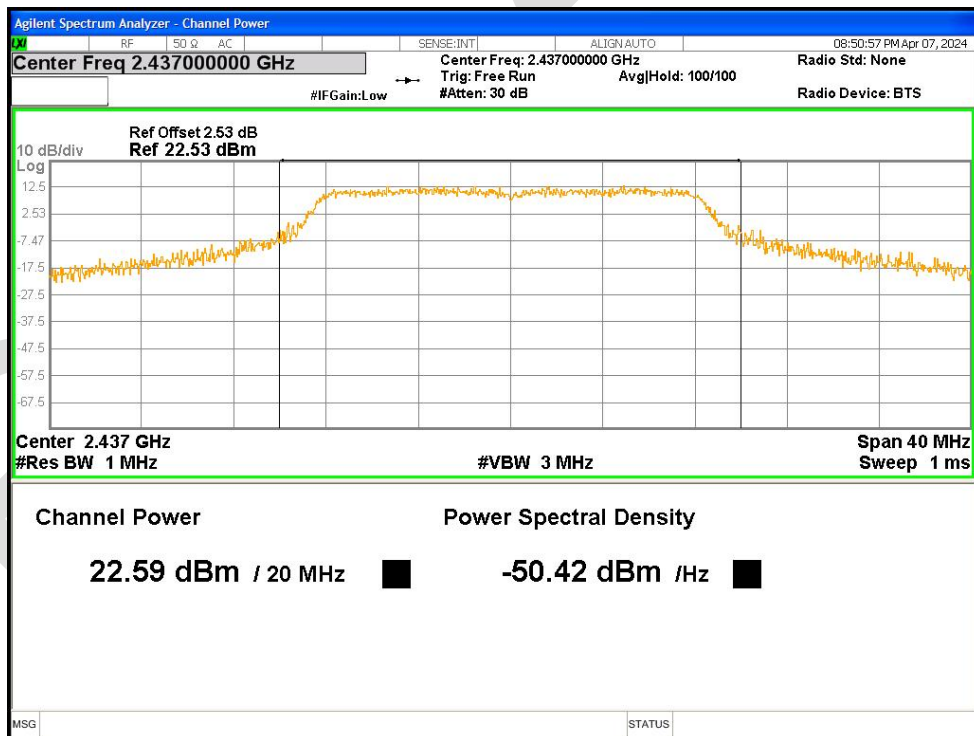
Power NVNT b 2462MHz Ant1



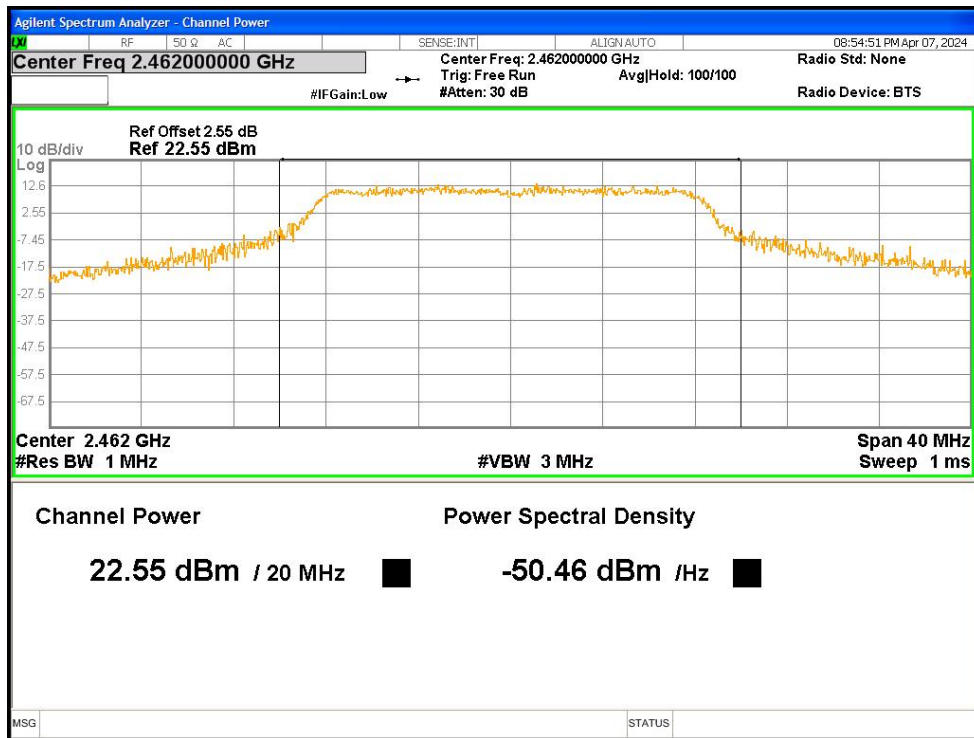
Power NVNT g 2412MHz Ant1



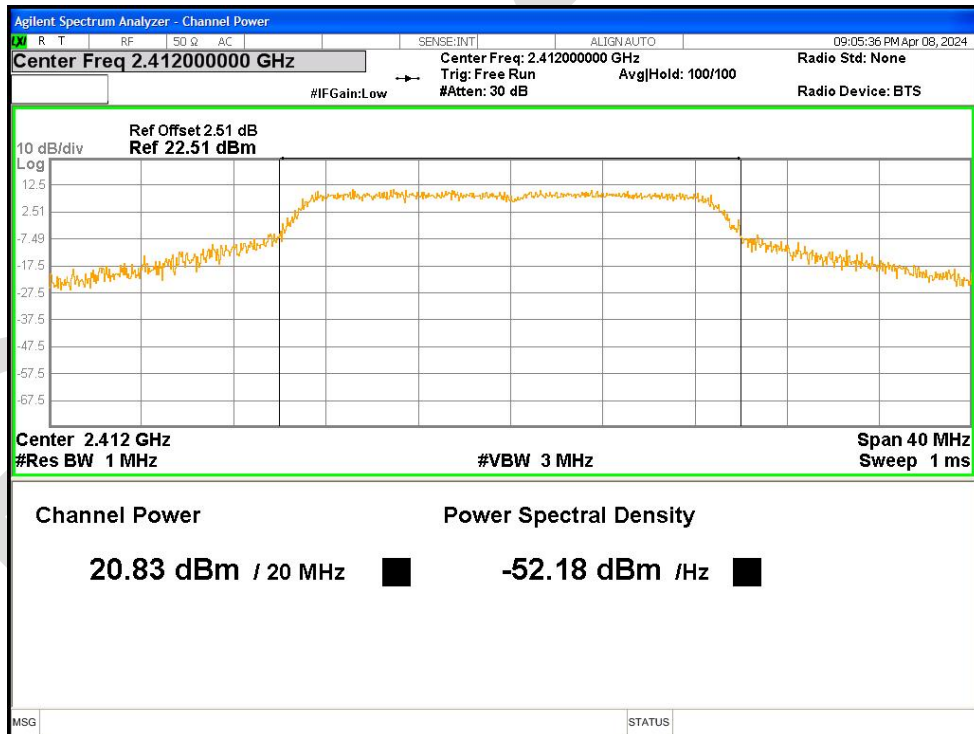
Power NVNT g 2437MHz Ant1



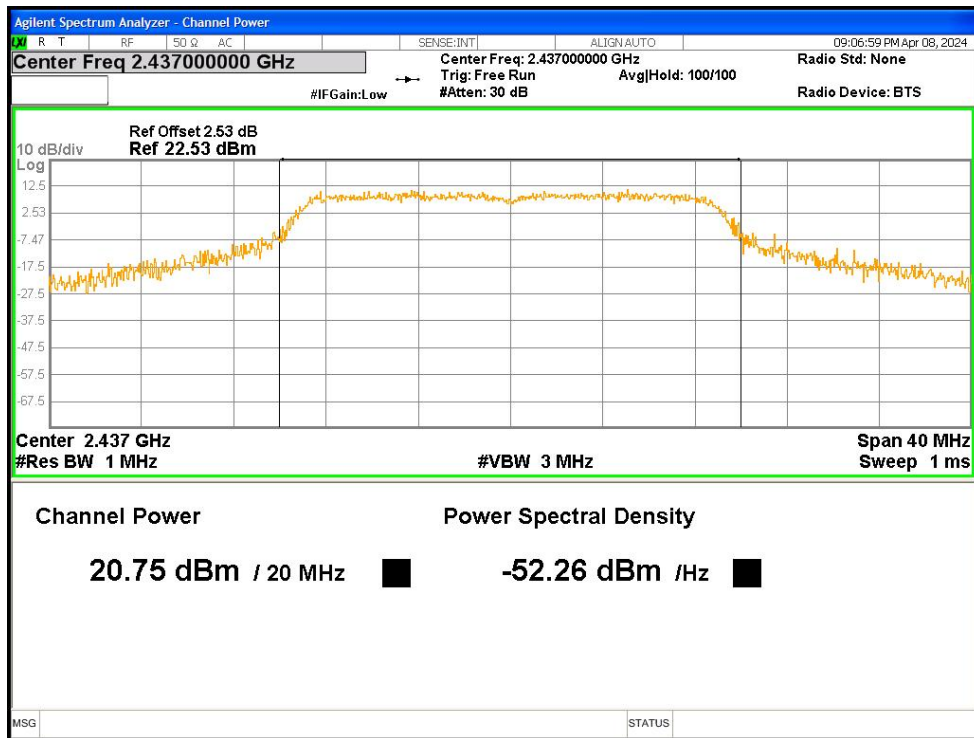
Power NVNT g 2462MHz Ant1



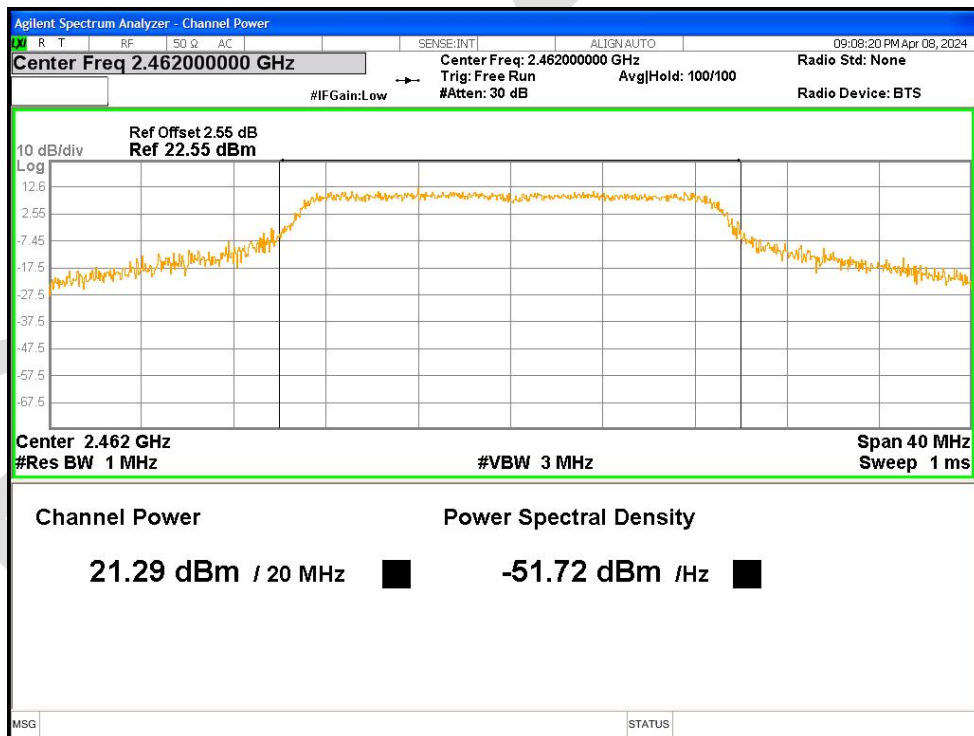
Power NVNT n20 2412MHz Ant1



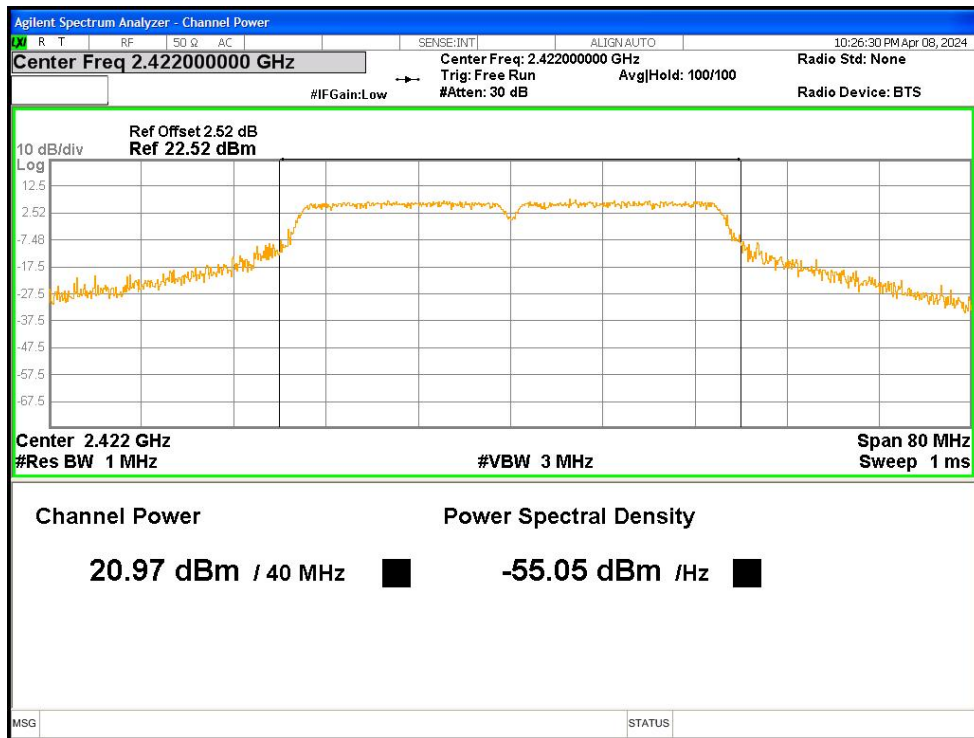
Power NVNT n20 2437MHz Ant1



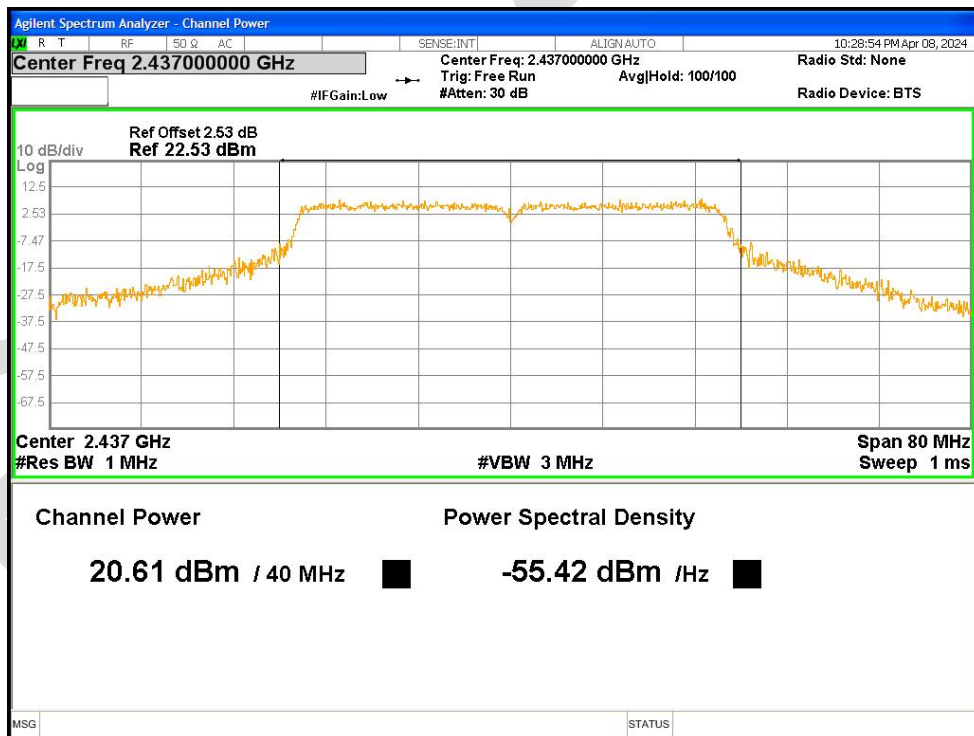
Power NVNT n20 2462MHz Ant1



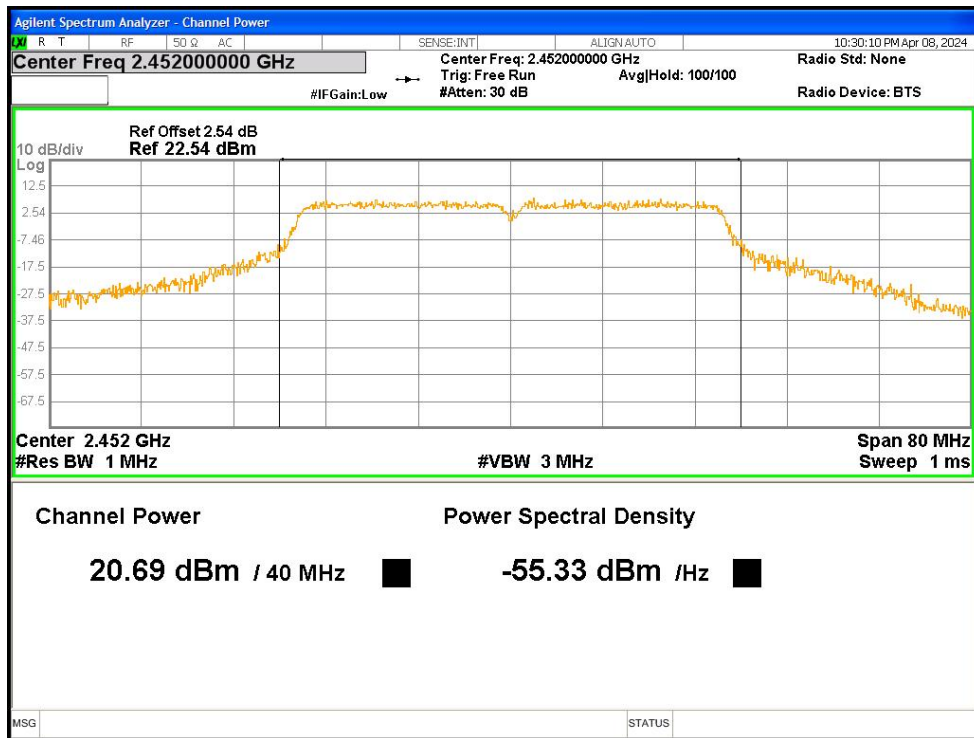
Power NVNT n40 2422MHz Ant1



Power NVNT n40 2437MHz Ant1



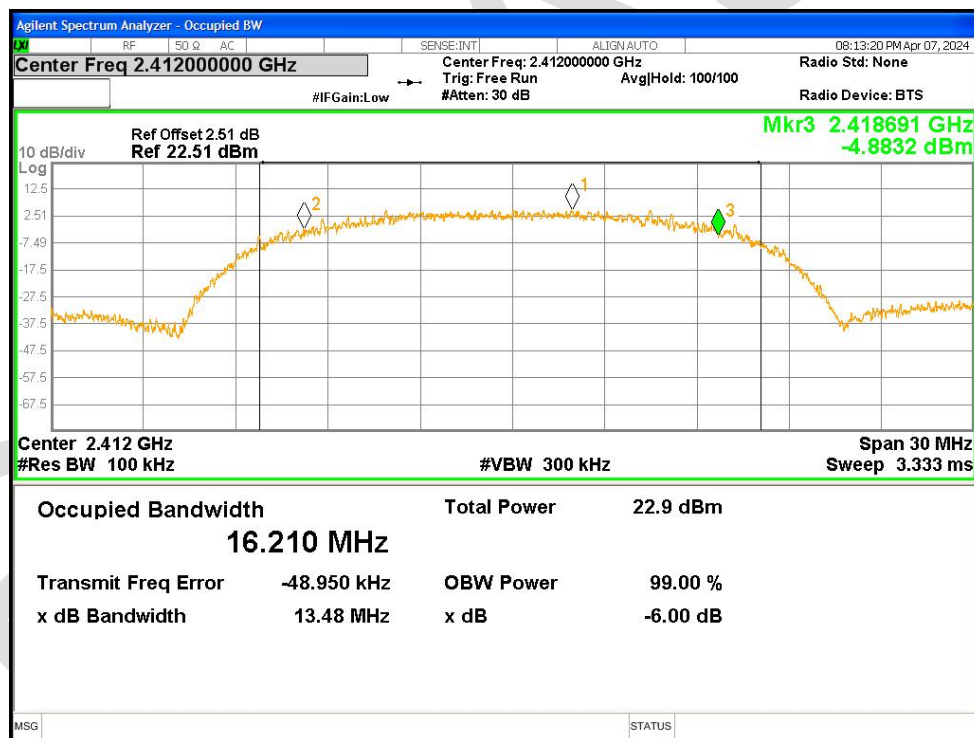
Power NVNT n40 2452MHz Ant1



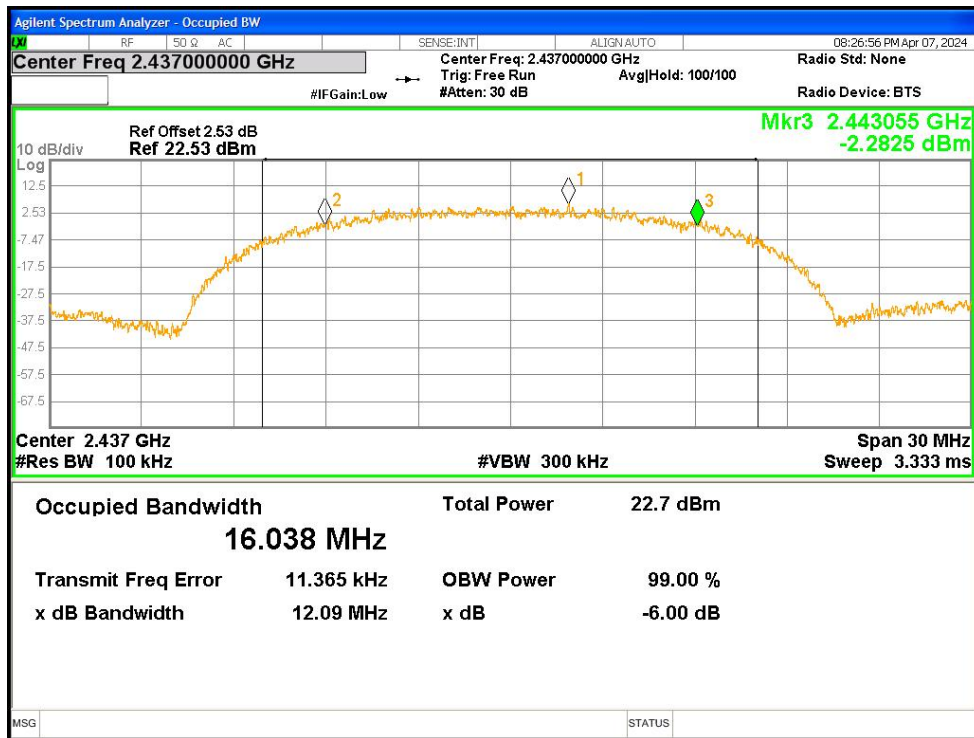
-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	13.480	0.5	Pass
NVNT	b	2437	Ant1	12.087	0.5	Pass
NVNT	b	2462	Ant1	11.926	0.5	Pass
NVNT	g	2412	Ant1	16.404	0.5	Pass
NVNT	g	2437	Ant1	16.416	0.5	Pass
NVNT	g	2462	Ant1	16.419	0.5	Pass
NVNT	n20	2412	Ant1	17.641	0.5	Pass
NVNT	n20	2437	Ant1	17.694	0.5	Pass
NVNT	n20	2462	Ant1	17.619	0.5	Pass
NVNT	n40	2422	Ant1	36.321	0.5	Pass
NVNT	n40	2437	Ant1	36.347	0.5	Pass
NVNT	n40	2452	Ant1	36.360	0.5	Pass

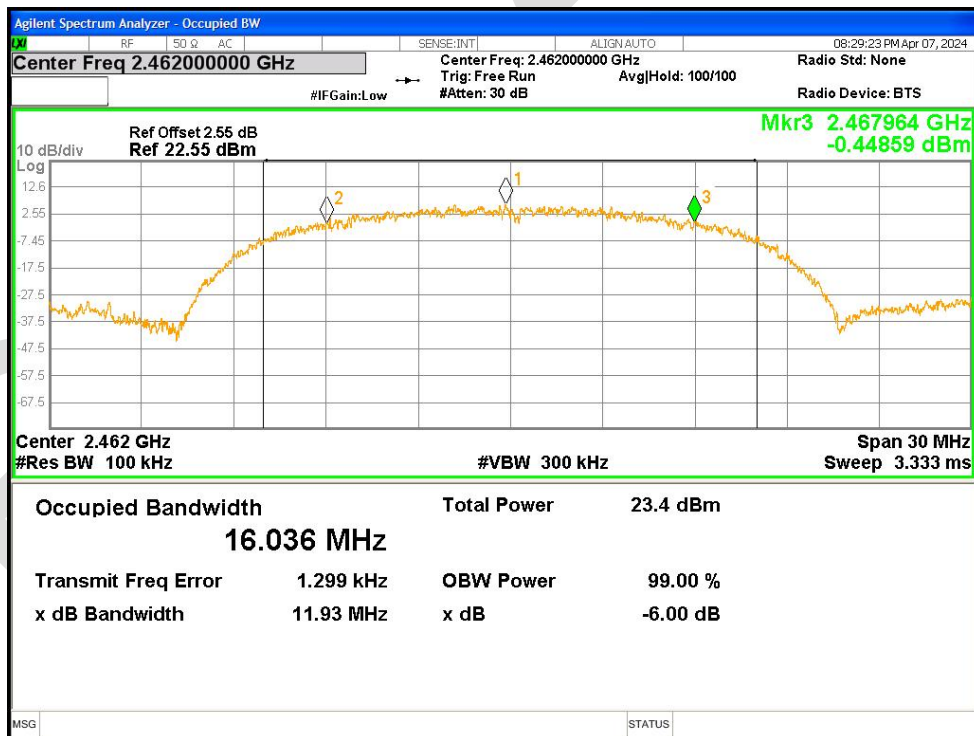
-6dB Bandwidth NVNT b 2412MHz Ant1



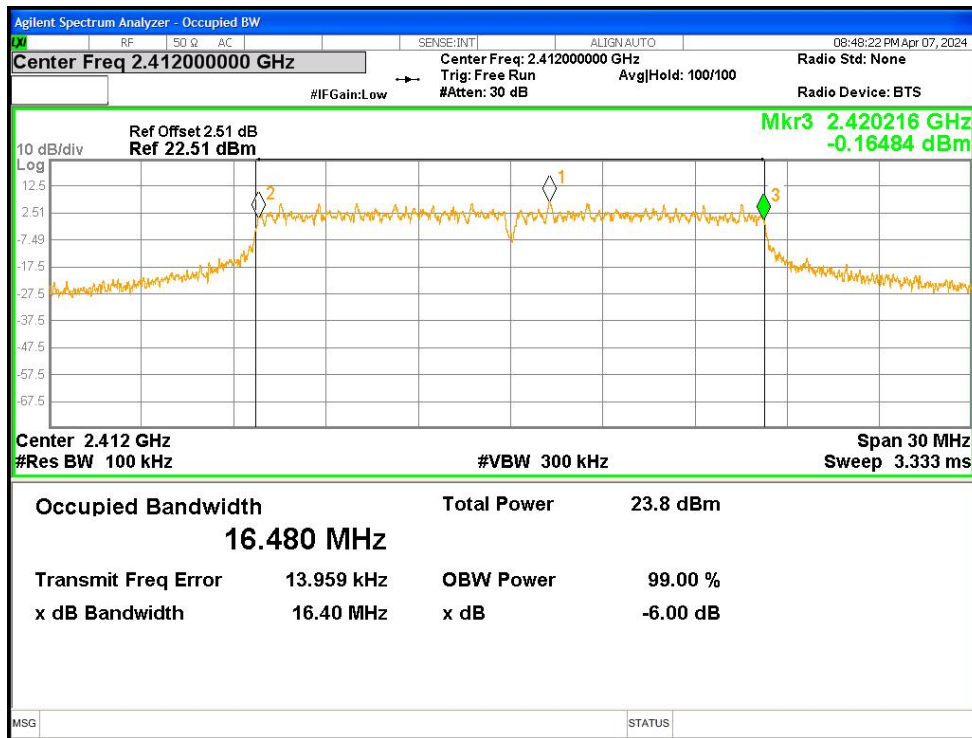
-6dB Bandwidth NVNT b 2437MHz Ant1



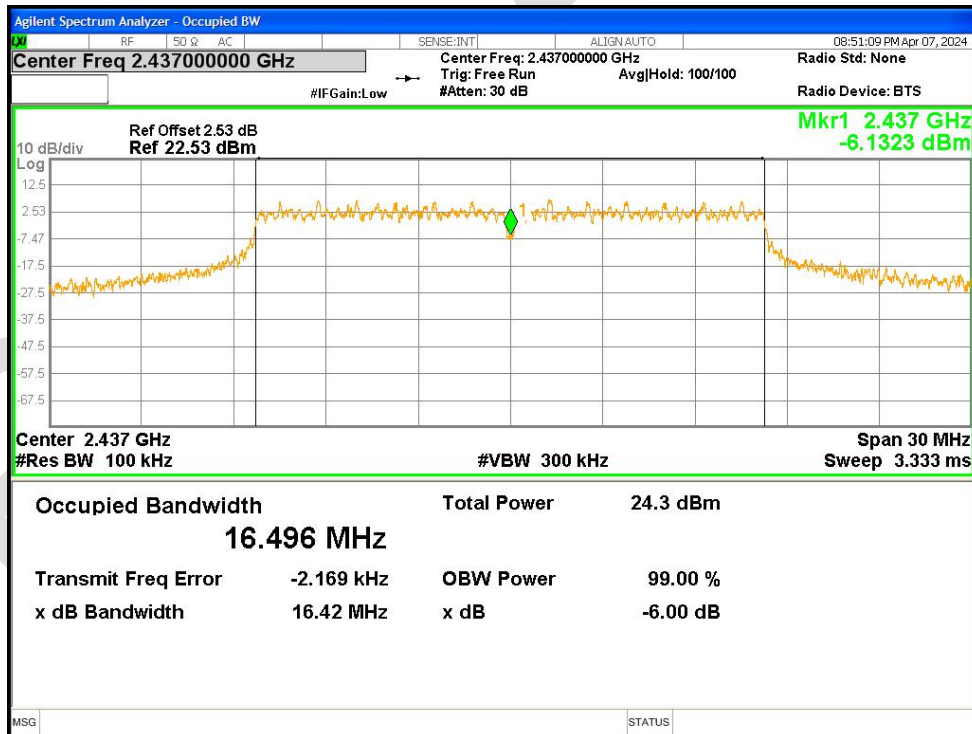
-6dB Bandwidth NVNT b 2462MHz Ant1



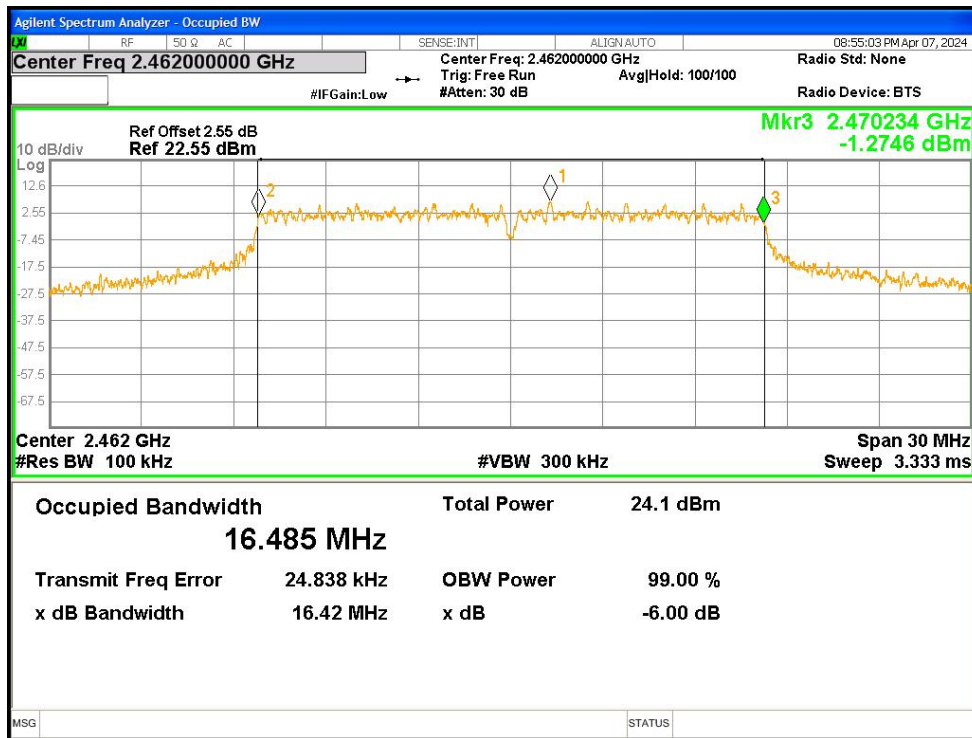
-6dB Bandwidth NVNT g 2412MHz Ant1



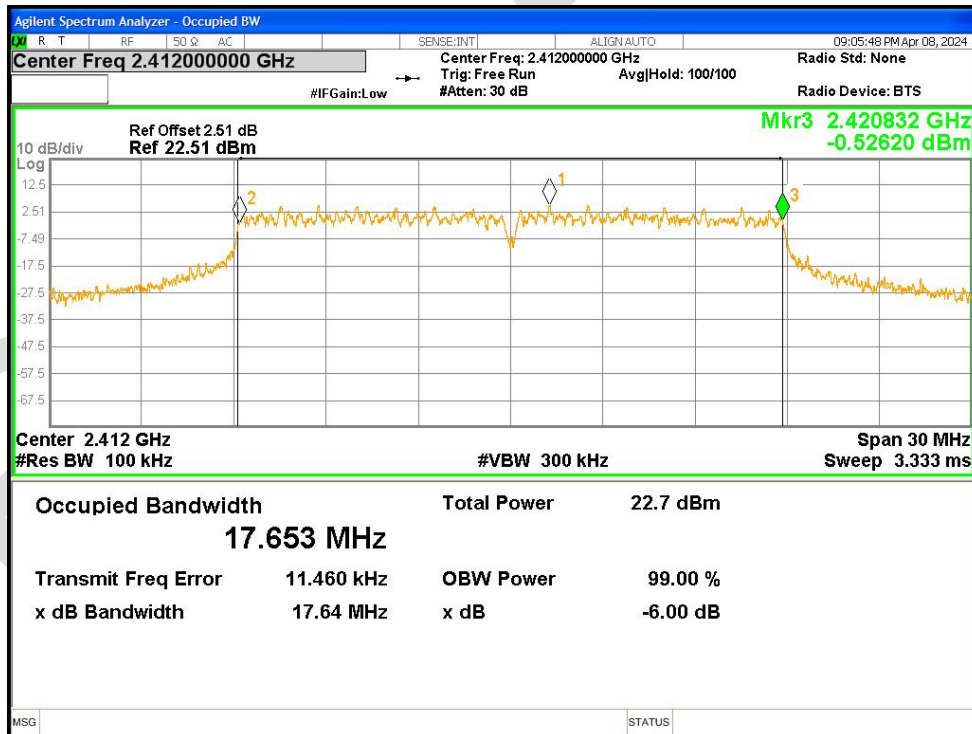
-6dB Bandwidth NVNT g 2437MHz Ant1



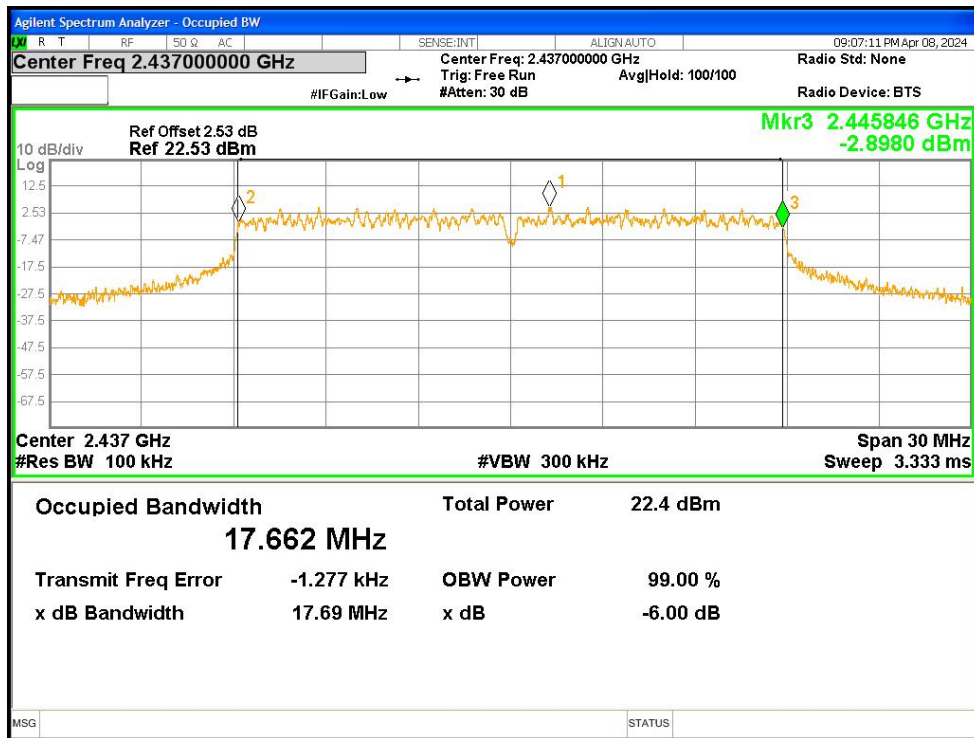
-6dB Bandwidth NVNT g 2462MHz Ant1



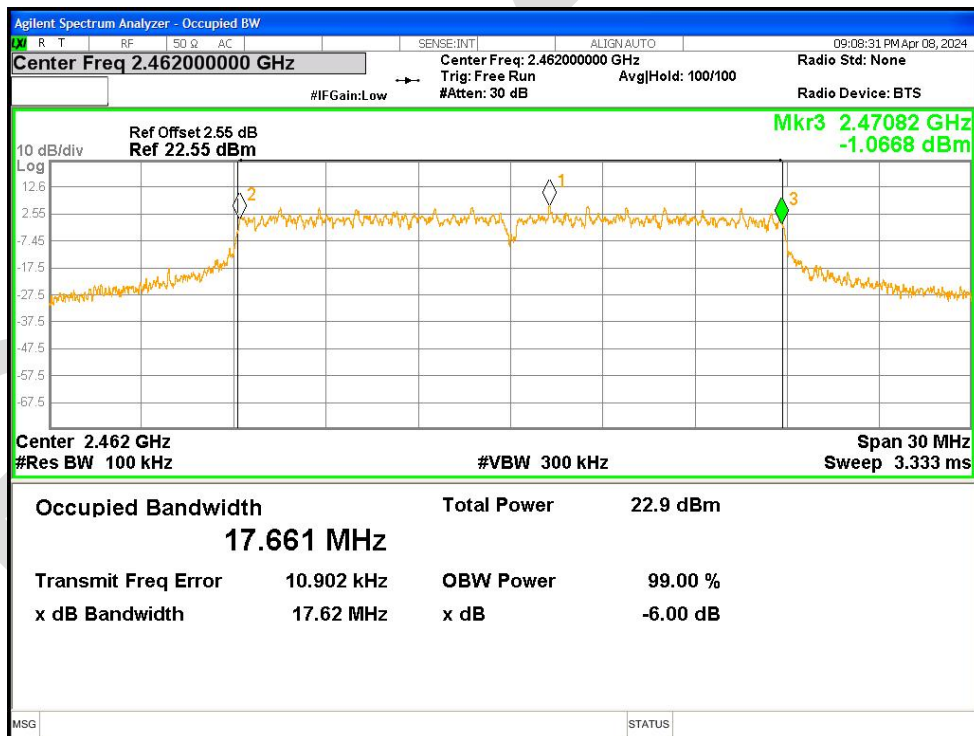
-6dB Bandwidth NVNT n20 2412MHz Ant1



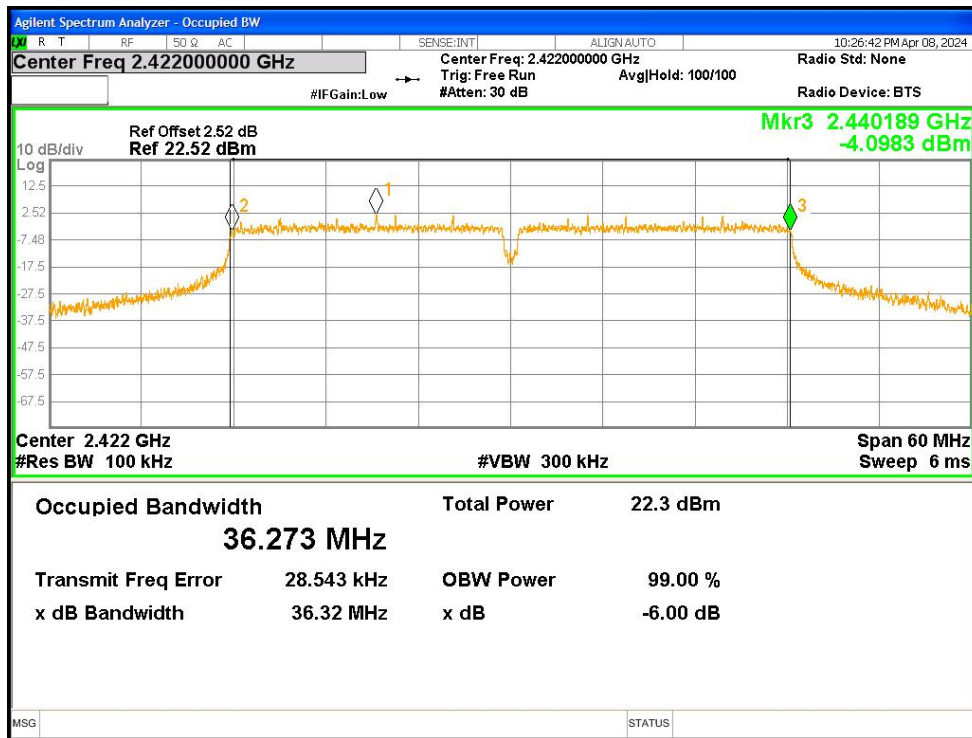
-6dB Bandwidth NVNT n20 2437MHz Ant1



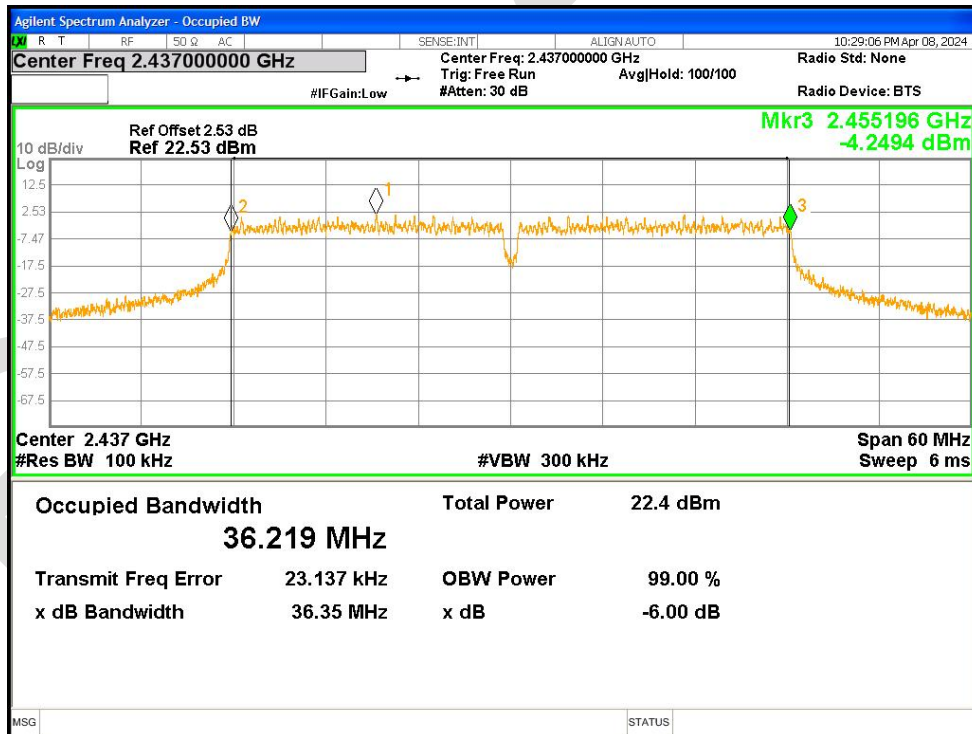
-6dB Bandwidth NVNT n20 2462MHz Ant1



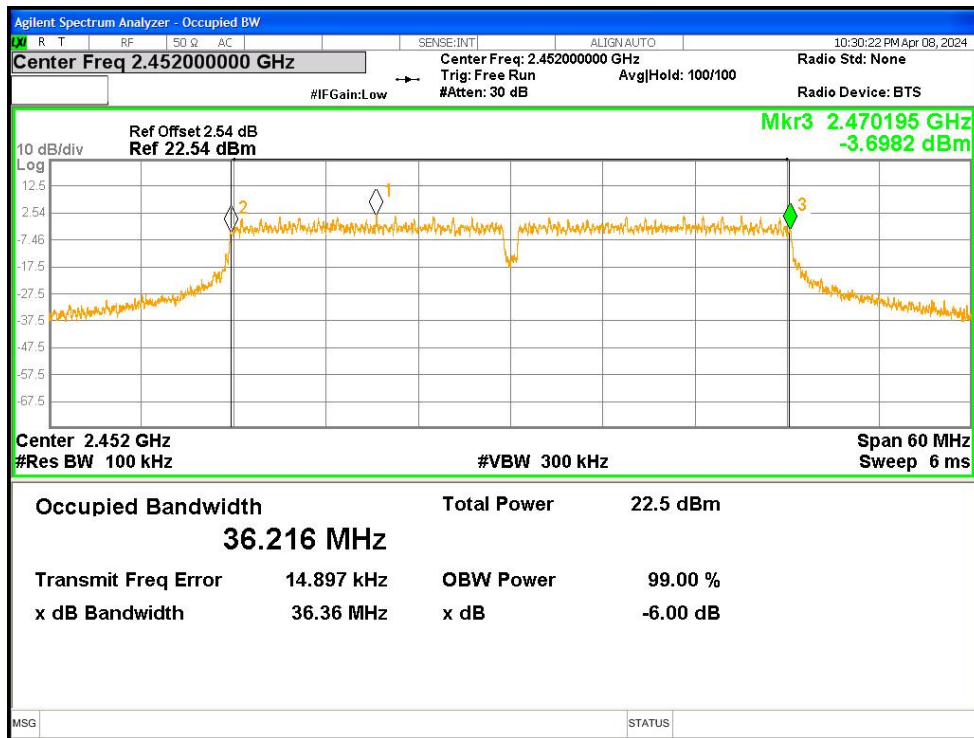
-6dB Bandwidth NVNT n40 2422MHz Ant1



-6dB Bandwidth NVNT n40 2437MHz Ant1



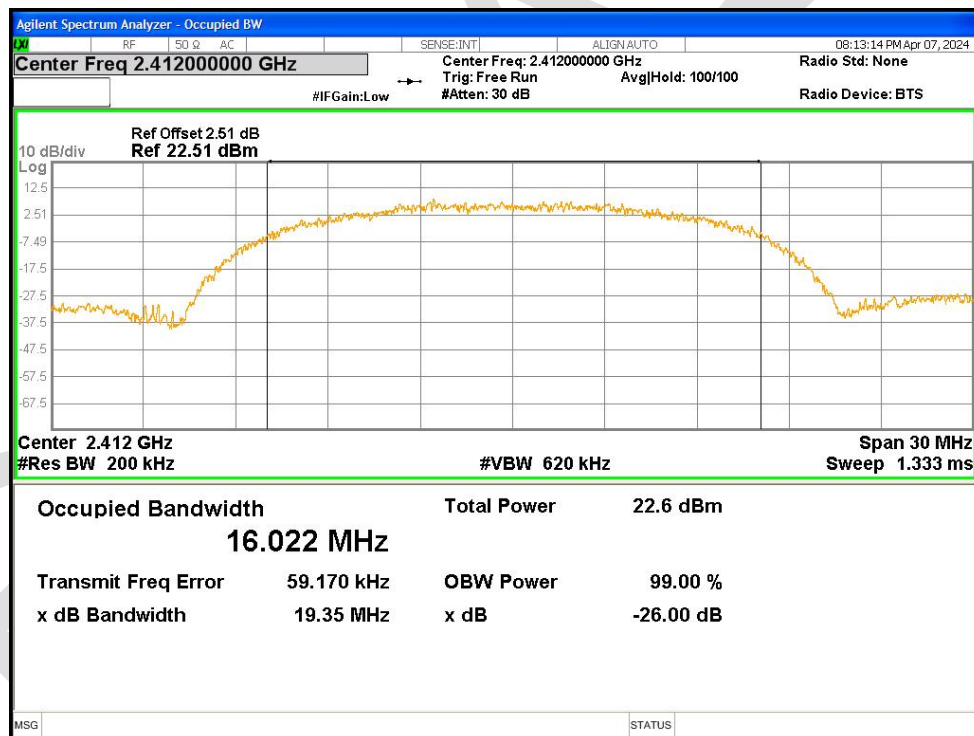
-6dB Bandwidth NVNT n40 2452MHz Ant1



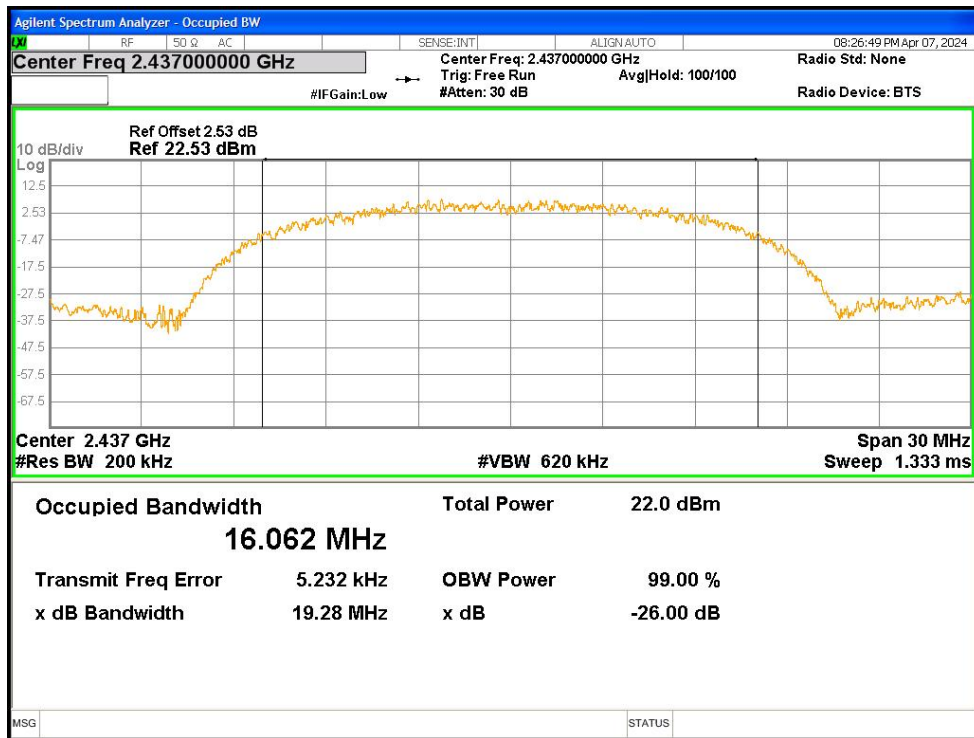
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	16.022
NVNT	b	2437	Ant1	16.062
NVNT	b	2462	Ant1	16.104
NVNT	g	2412	Ant1	16.622
NVNT	g	2437	Ant1	16.634
NVNT	g	2462	Ant1	16.598
NVNT	n20	2412	Ant1	17.759
NVNT	n20	2437	Ant1	17.722
NVNT	n20	2462	Ant1	17.730
NVNT	n40	2422	Ant1	36.669
NVNT	n40	2437	Ant1	36.508
NVNT	n40	2452	Ant1	36.534

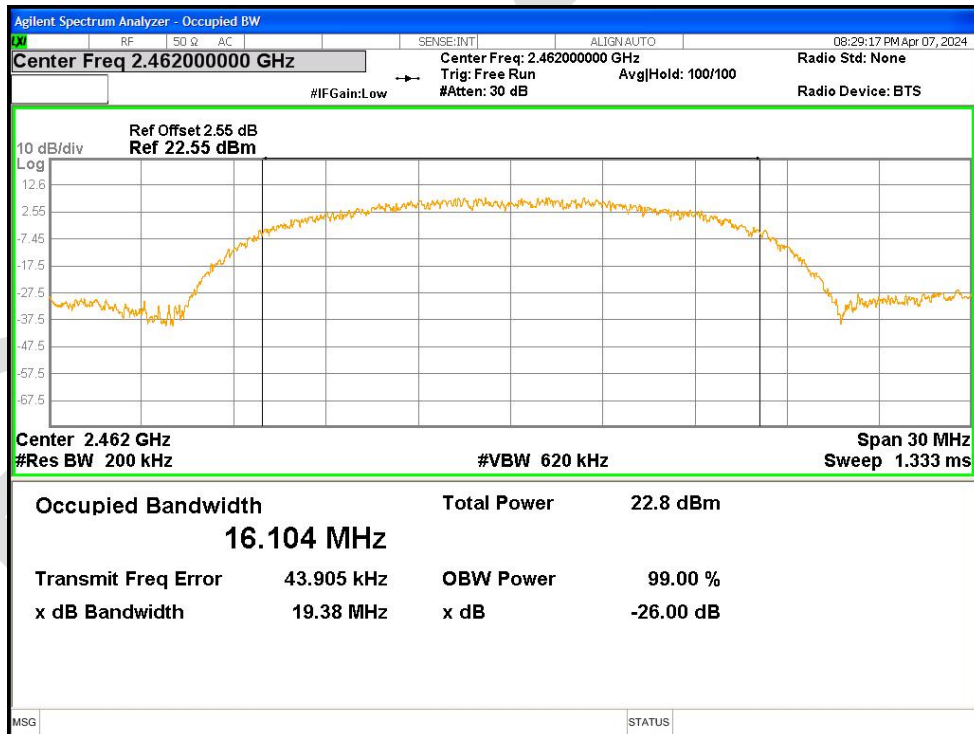
OBW NVNT b 2412MHz Ant1



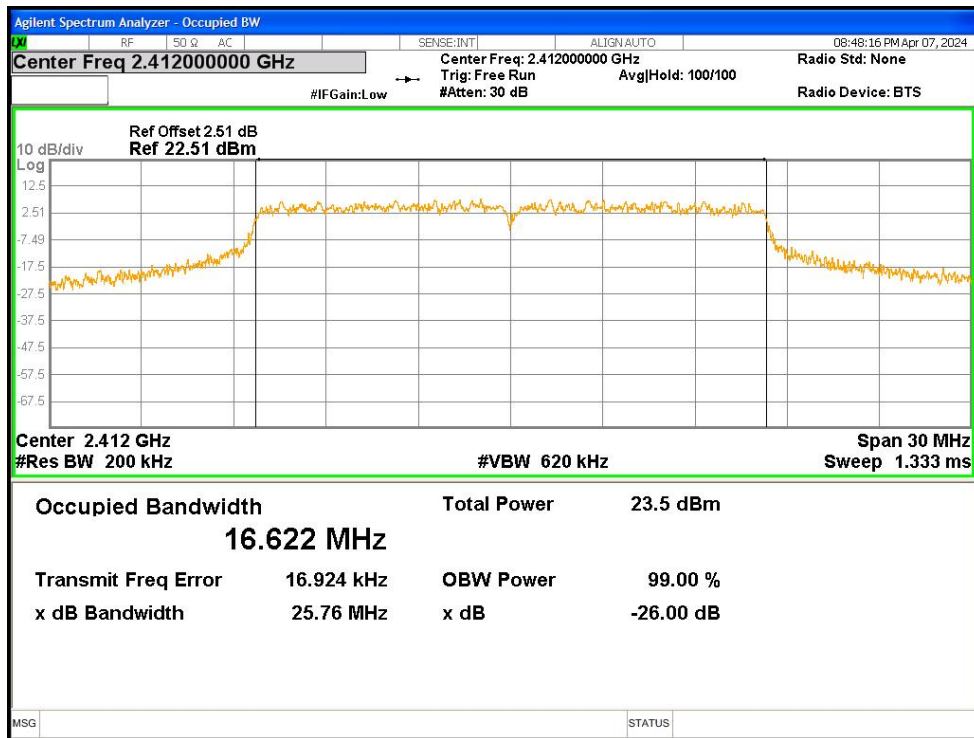
OBW NVNT b 2437MHz Ant1



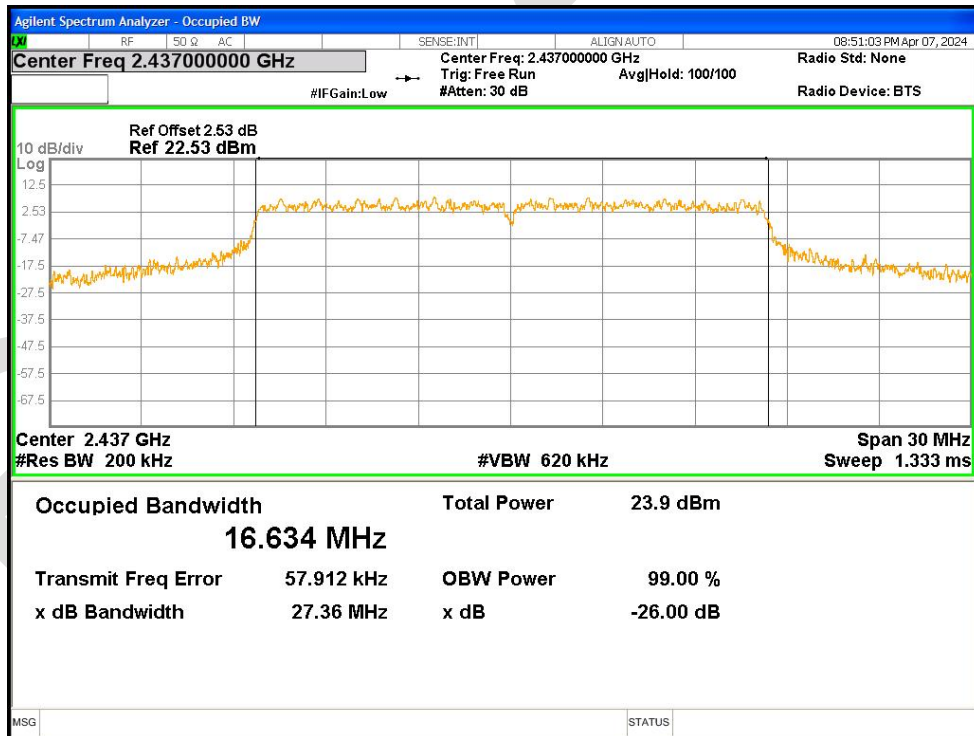
OBW NVNT b 2462MHz Ant1



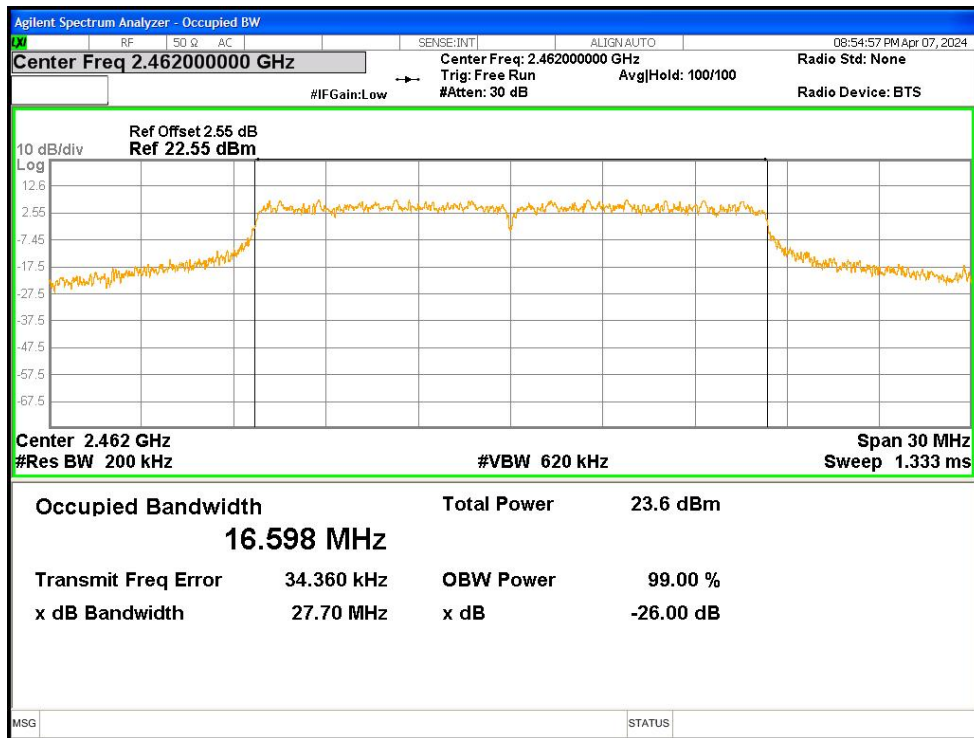
OBW NVNT g 2412MHz Ant1



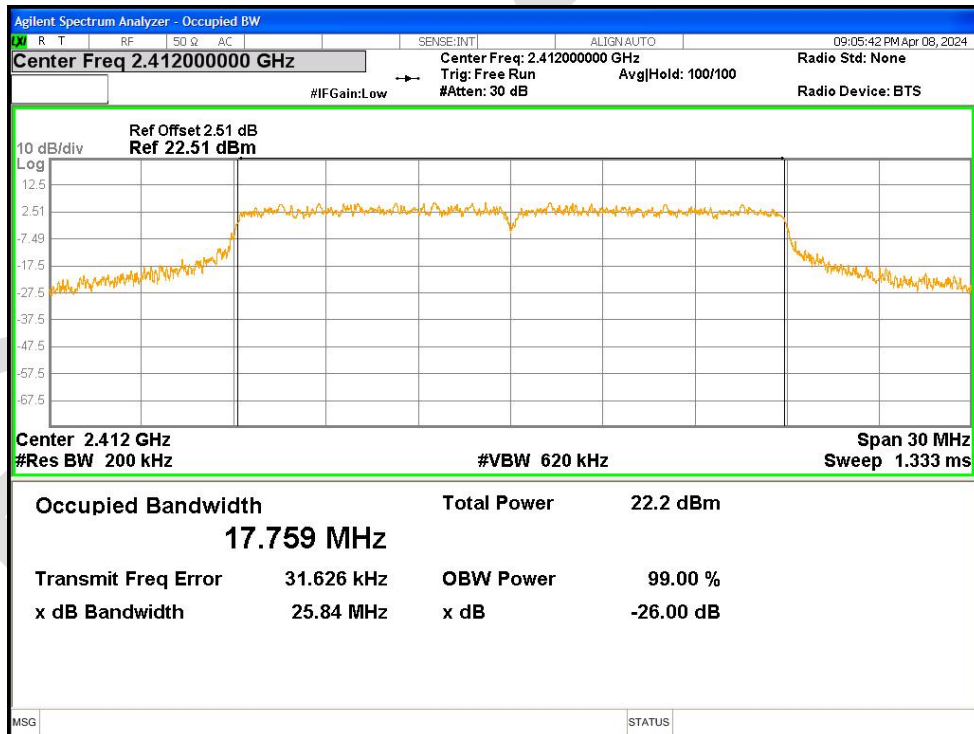
OBW NVNT g 2437MHz Ant1



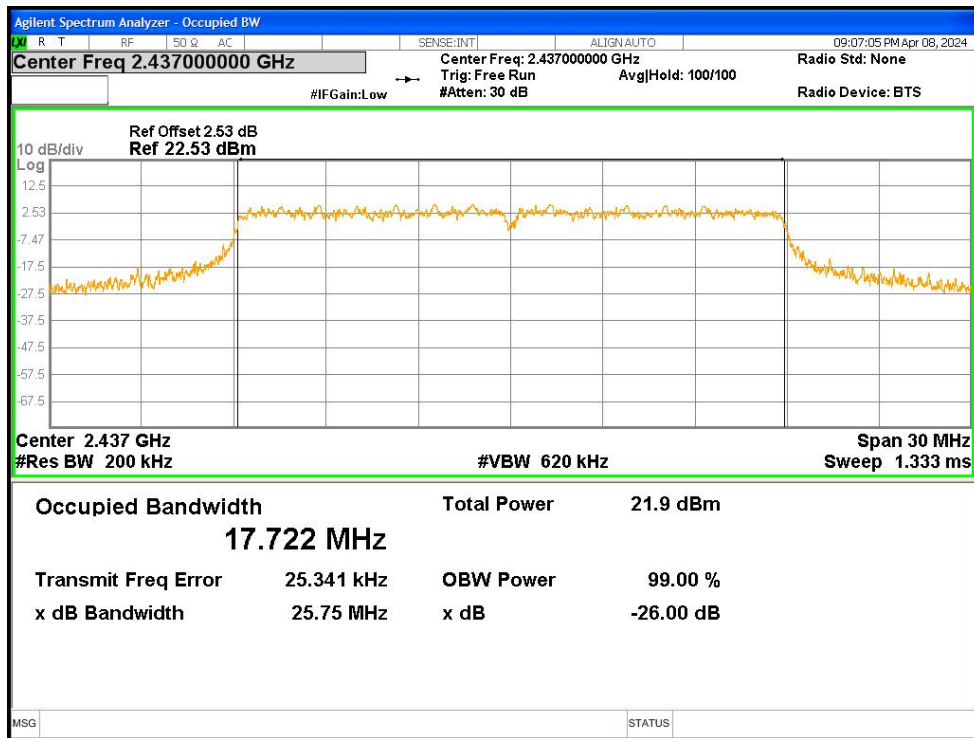
OBW NVNT g 2462MHz Ant1



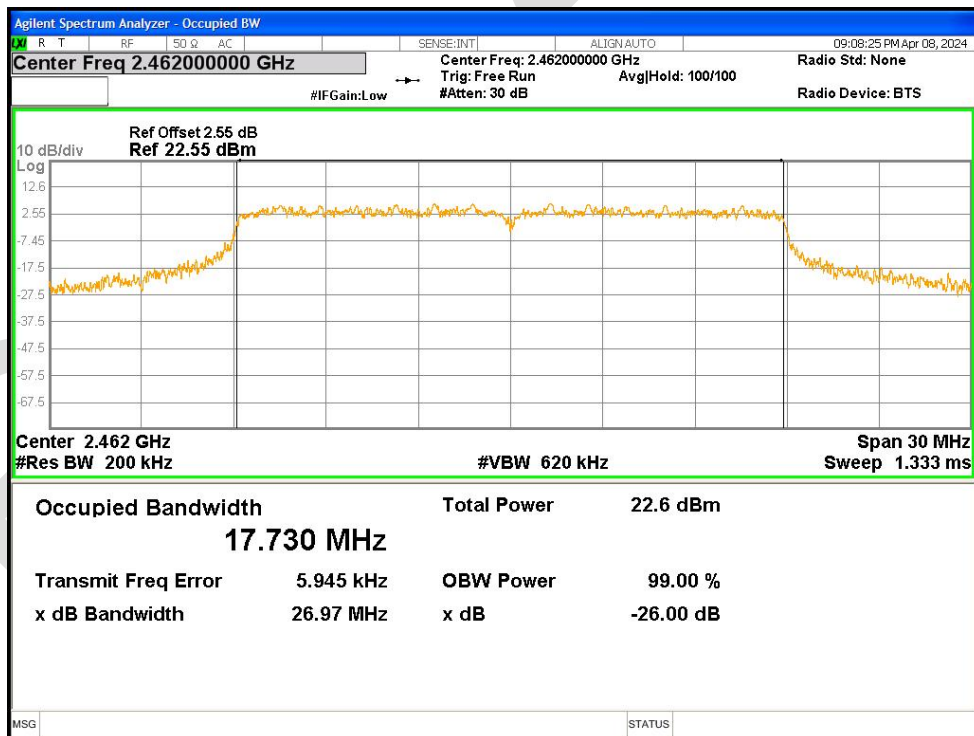
OBW NVNT n20 2412MHz Ant1



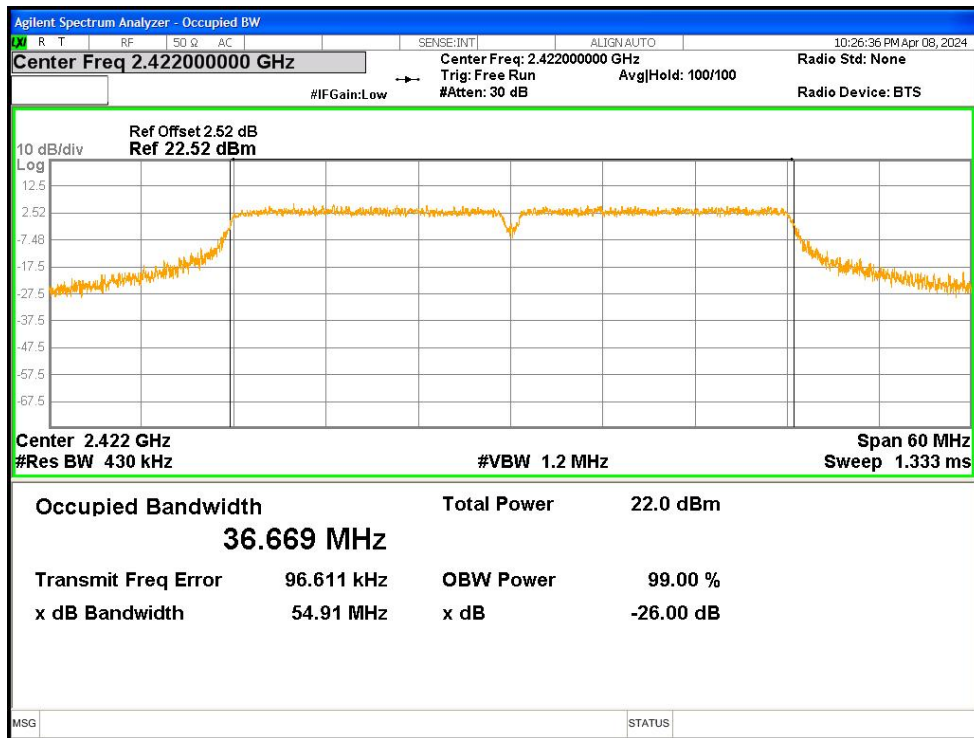
OBW NVNT n20 2437MHz Ant1



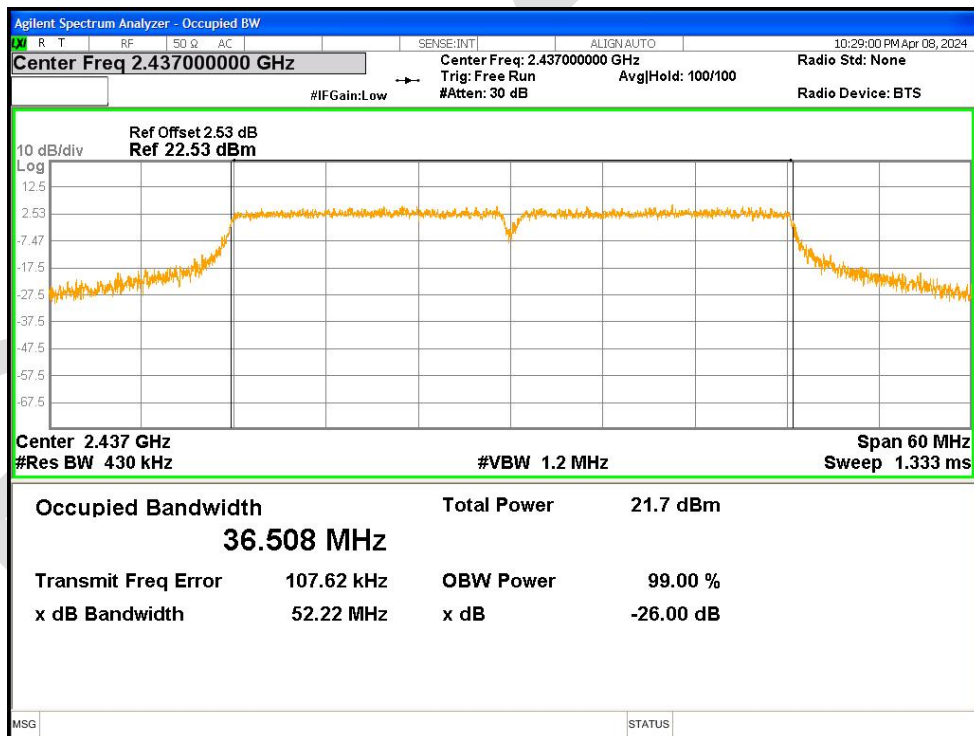
OBW NVNT n20 2462MHz Ant1



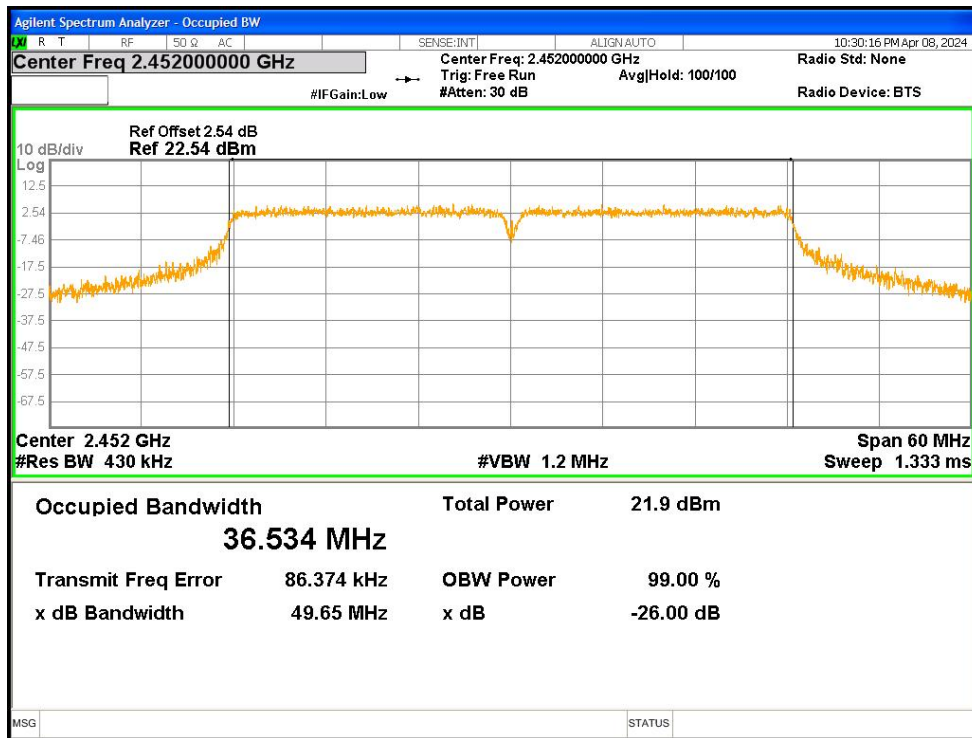
OBW NVNT n40 2422MHz Ant1



OBW NVNT n40 2437MHz Ant1



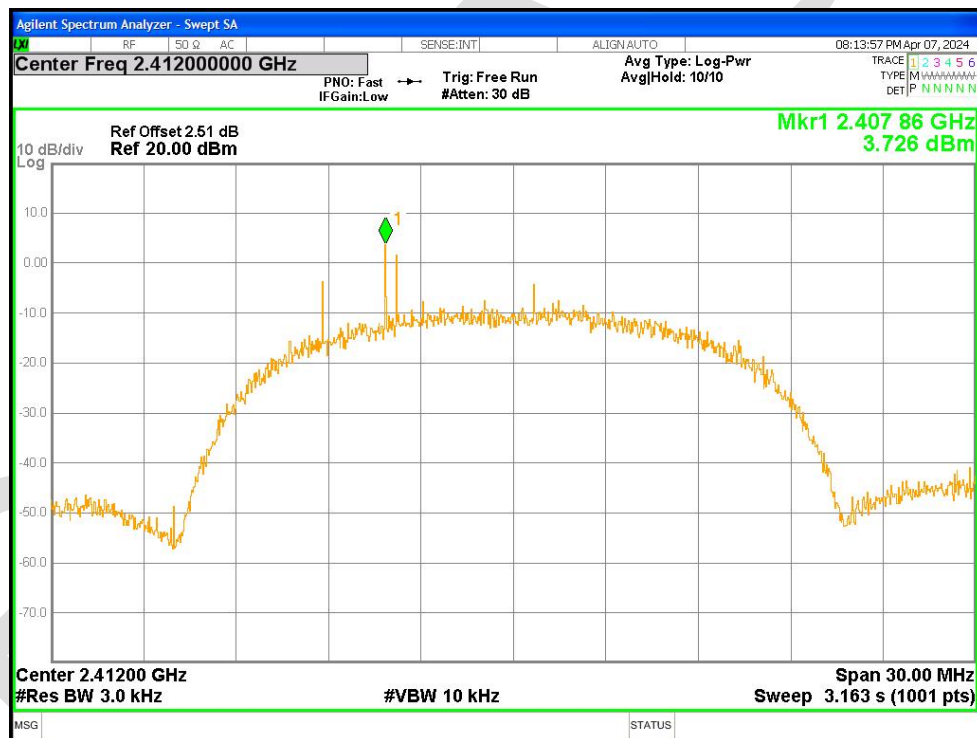
OBW NVNT n40 2452MHz Ant1



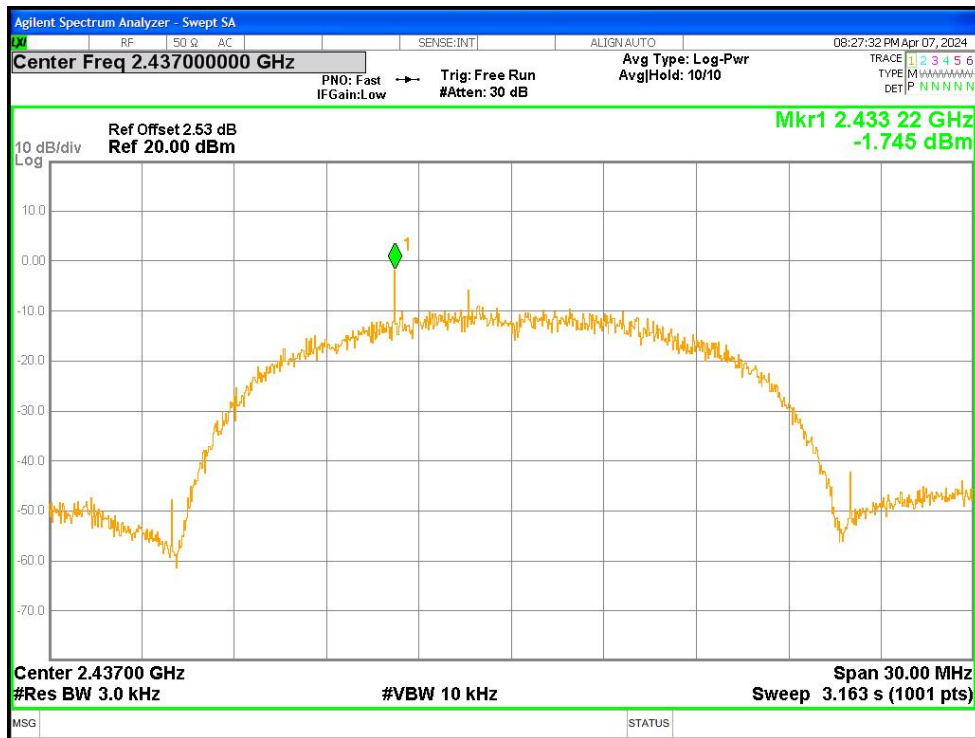
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	3.726	8	Pass
NVNT	b	2437	Ant1	-1.745	8	Pass
NVNT	b	2462	Ant1	1.608	8	Pass
NVNT	g	2412	Ant1	-8.914	8	Pass
NVNT	g	2437	Ant1	-8.445	8	Pass
NVNT	g	2462	Ant1	-9.168	8	Pass
NVNT	n20	2412	Ant1	4.753	8	Pass
NVNT	n20	2437	Ant1	4.853	8	Pass
NVNT	n20	2462	Ant1	5.624	8	Pass
NVNT	n40	2422	Ant1	1.611	8	Pass
NVNT	n40	2437	Ant1	1.63	8	Pass
NVNT	n40	2452	Ant1	1.369	8	Pass

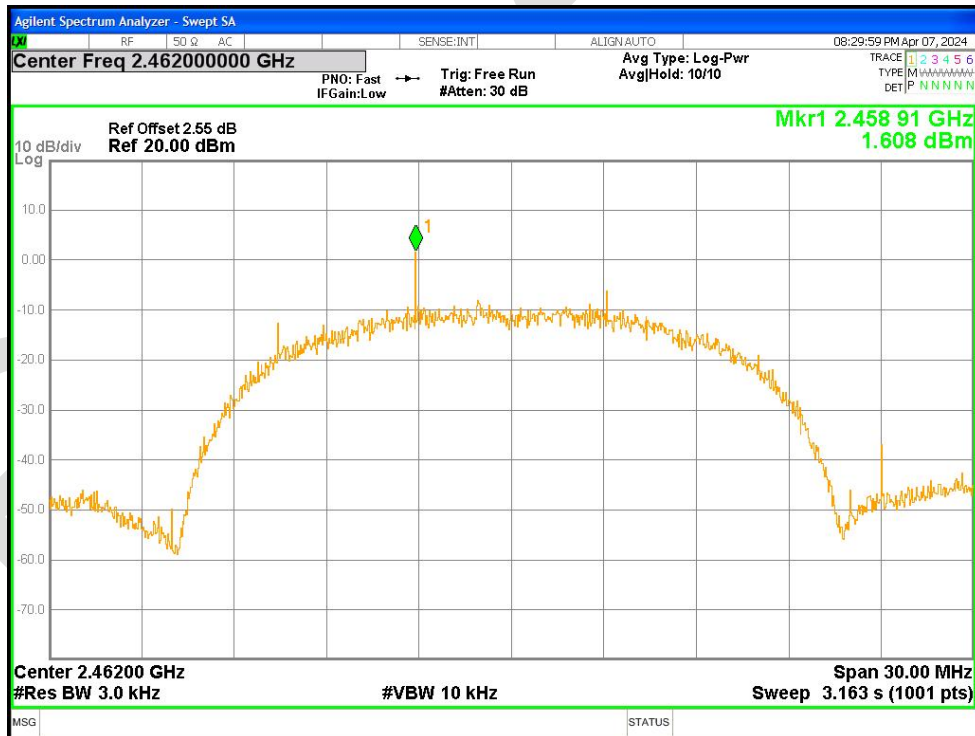
PSD NVNT b 2412MHz Ant1



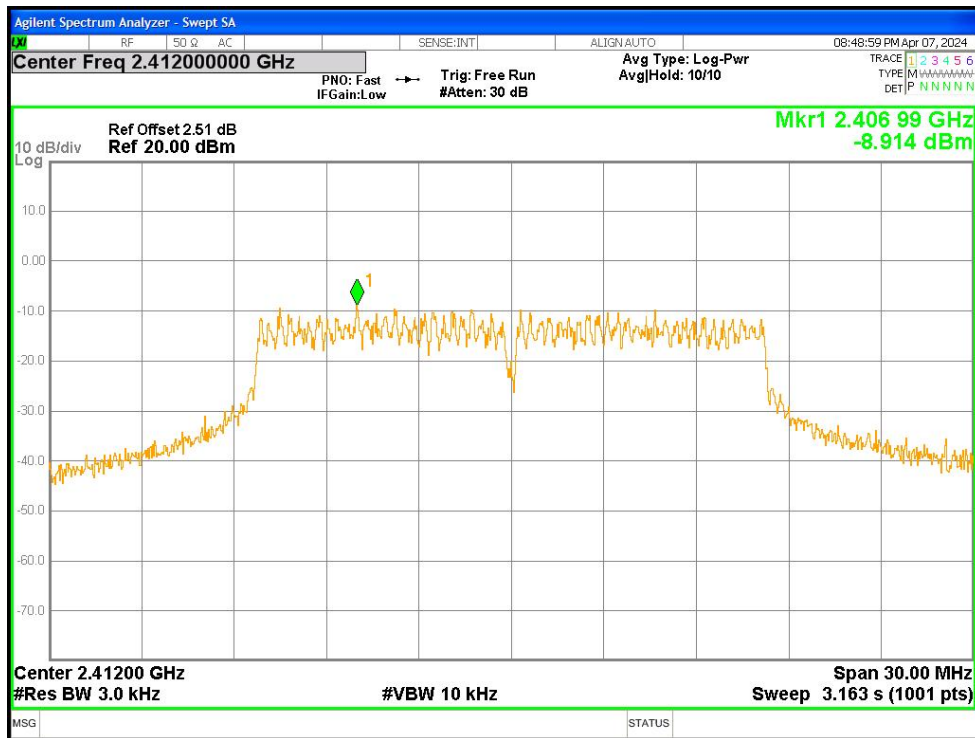
PSD NVNT b 2437MHz Ant1



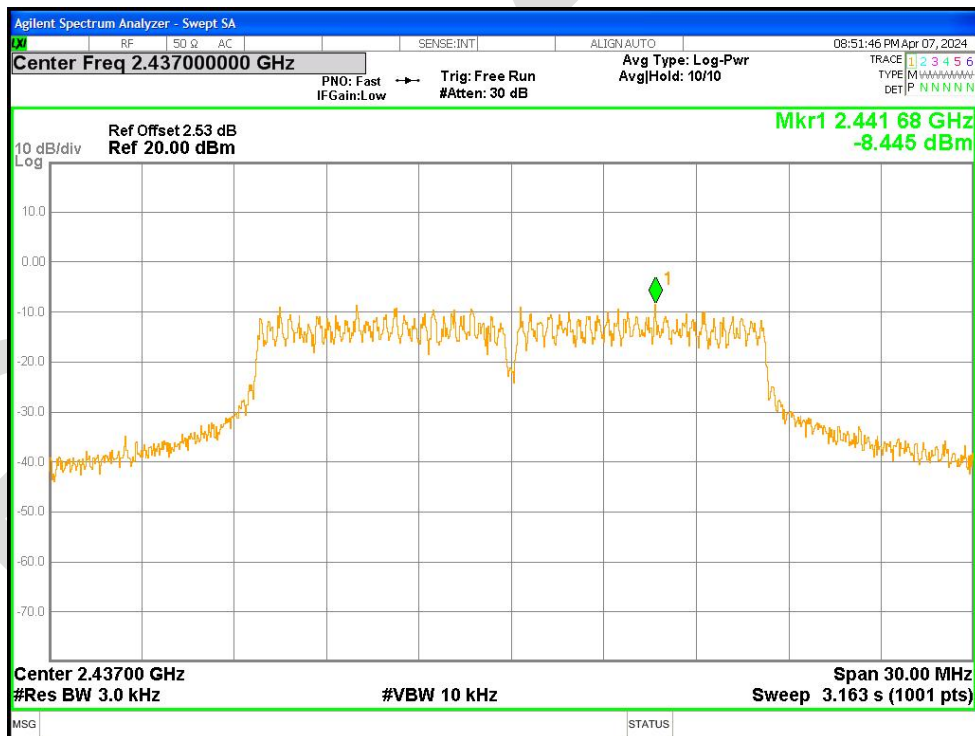
PSD NVNT b 2462MHz Ant1



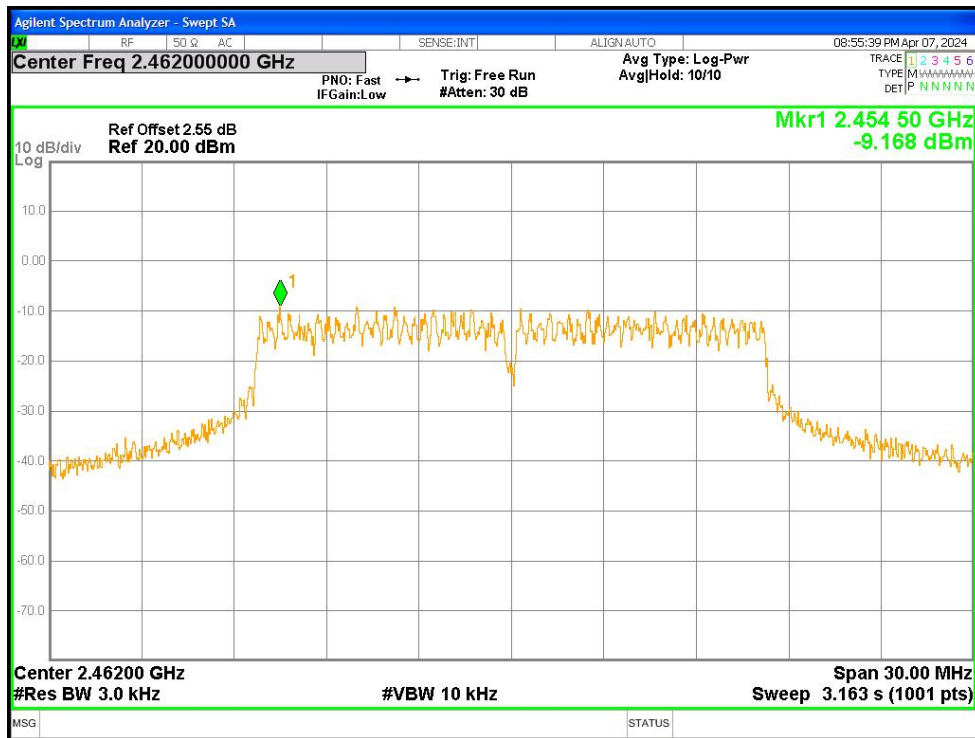
PSD NVNT g 2412MHz Ant1



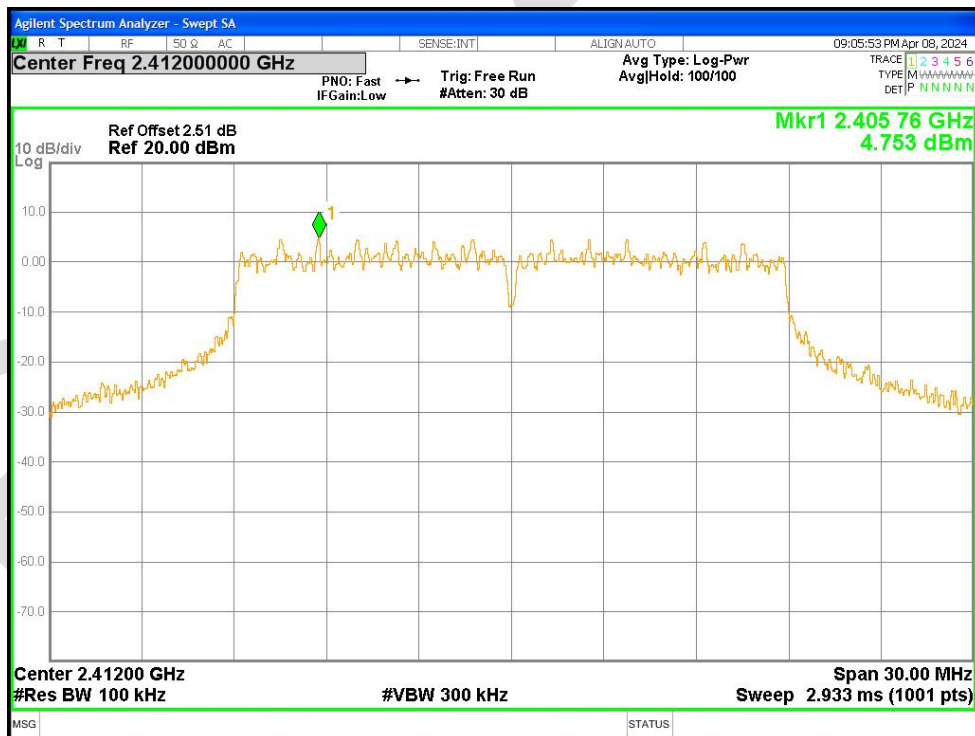
PSD NVNT g 2437MHz Ant1



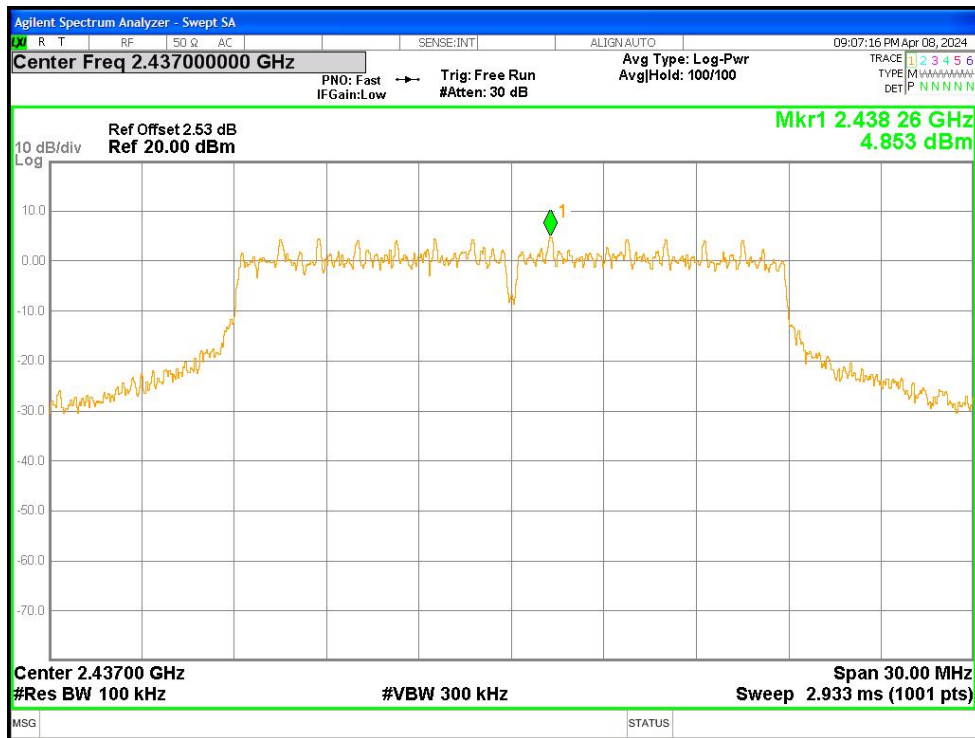
PSD NVNT g 2462MHz Ant1



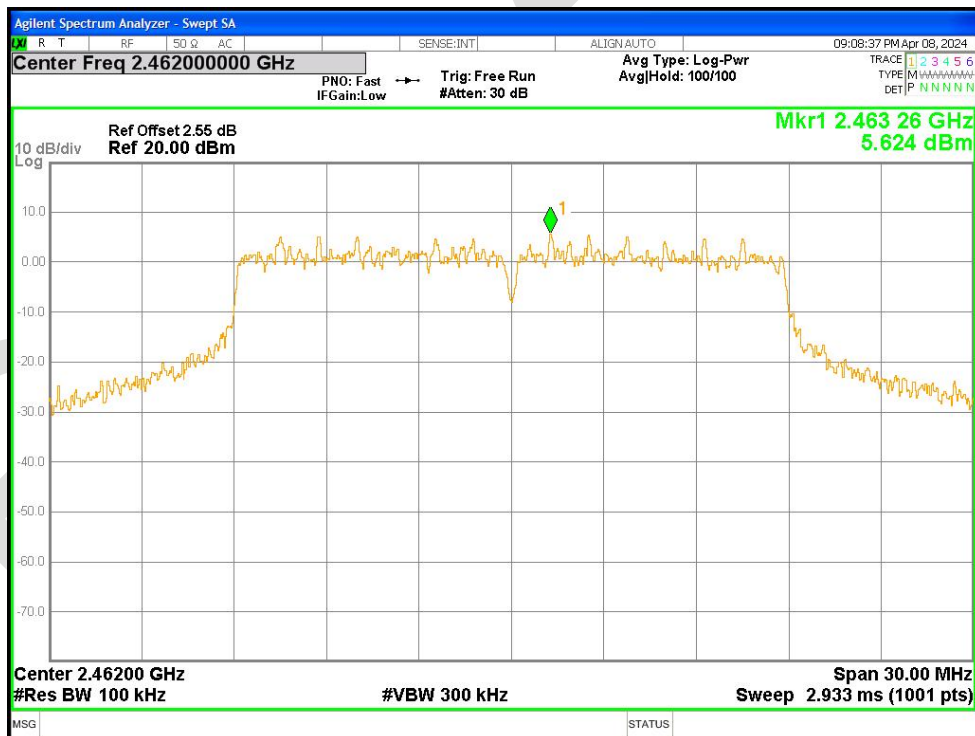
PSD NVNT n20 2412MHz Ant1



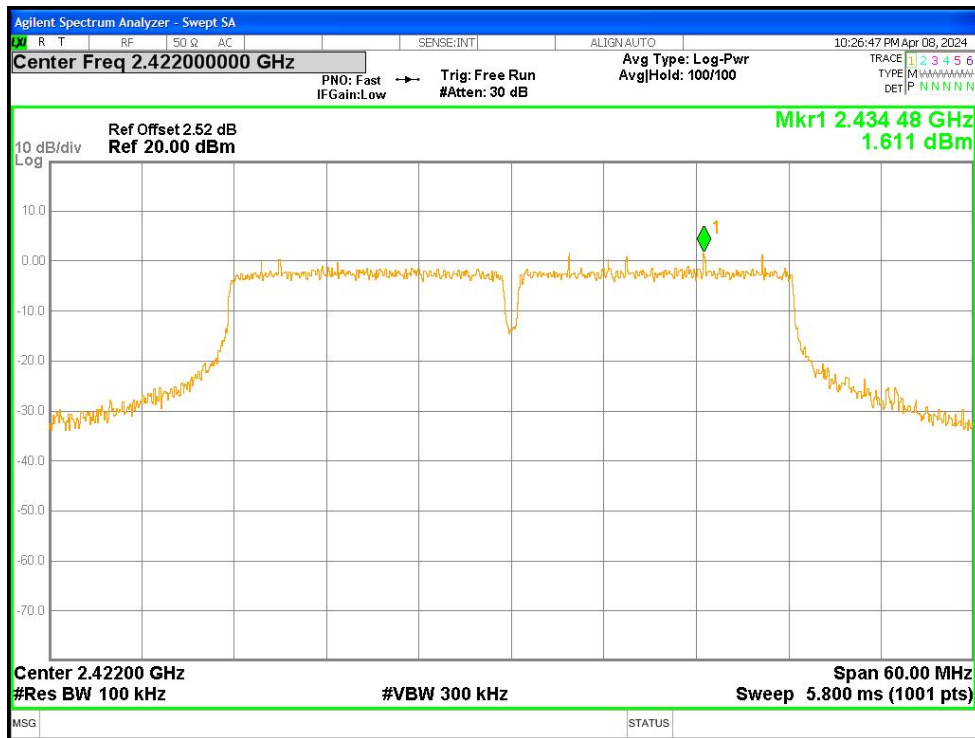
PSD NVNT n20 2437MHz Ant1



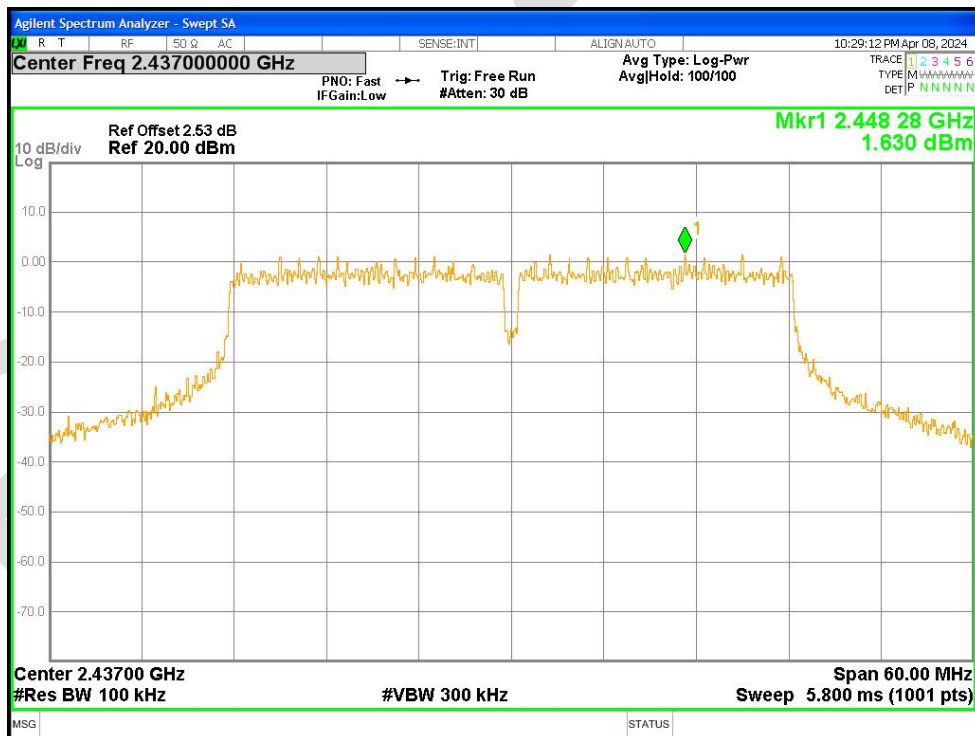
PSD NVNT n20 2462MHz Ant1



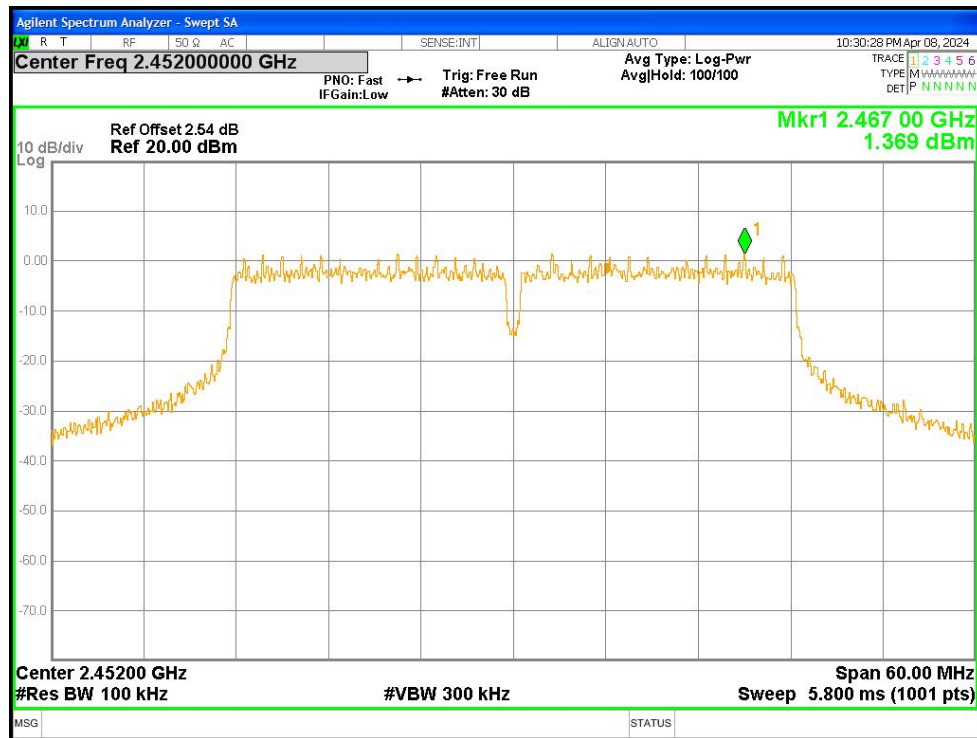
PSD NVNT n40 2422MHz Ant1



PSD NVNT n40 2437MHz Ant1



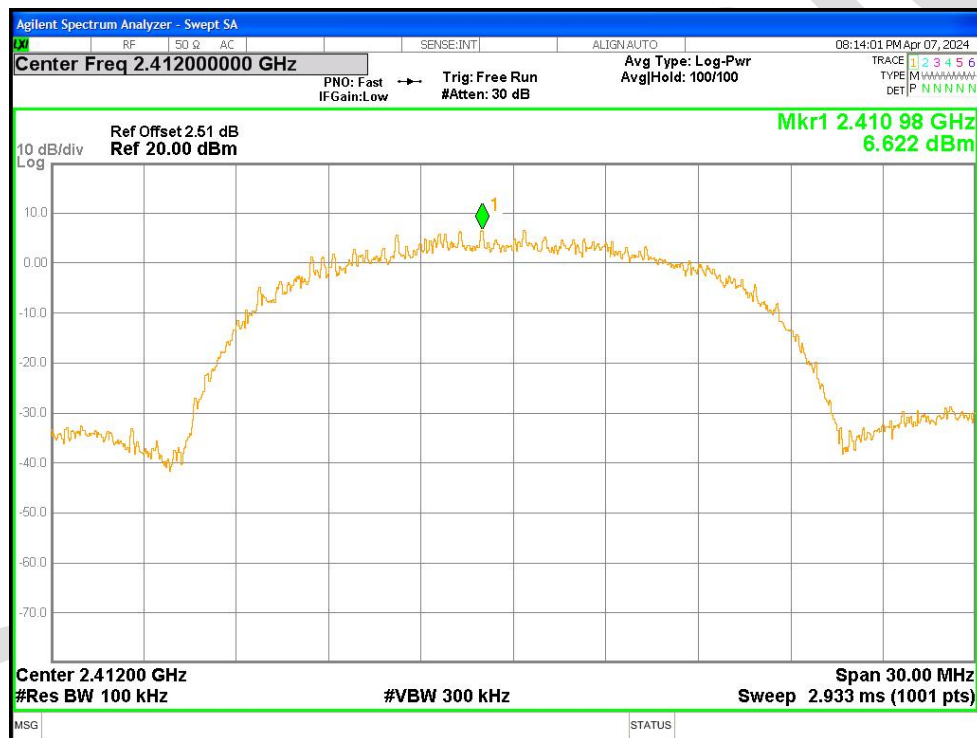
PSD NVNT n40 2452MHz Ant1



Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-53.91	-20	Pass
NVNT	b	2462	Ant1	-47.81	-20	Pass
NVNT	g	2412	Ant1	-40.25	-20	Pass
NVNT	g	2462	Ant1	-38.32	-20	Pass
NVNT	n20	2412	Ant1	-41.47	-20	Pass
NVNT	n20	2462	Ant1	-40.48	-20	Pass
NVNT	n40	2422	Ant1	-33.95	-20	Pass
NVNT	n40	2452	Ant1	-36.91	-20	Pass

Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission