

RF Test Data for 2.4G WiFi (Conducted Measurements)

General Description of EUT	
Product Name:	Kids Tablet
Test Model:	AT81K
Sample ID:	202401-0115-11-2#
Environmental Conditions	
Temperature:	25℃
Relative Humidity:	55%
Test Voltage:	DC 3.8V
Test Engineer:	Zhou zhen
Note: For a more detailed features description, please refer to the report TBR-C-202401-0115-182 The report only show the worst case data.	

Contents

1. Duty Cycle.....3

2. Maximum Conducted Output Power13

3. -6dB Bandwidth14

4. Occupied Channel Bandwidth24

5. Maximum Power Spectral Density Level.....34

6. Band Edge44

7. Conducted RF Spurious Emission57

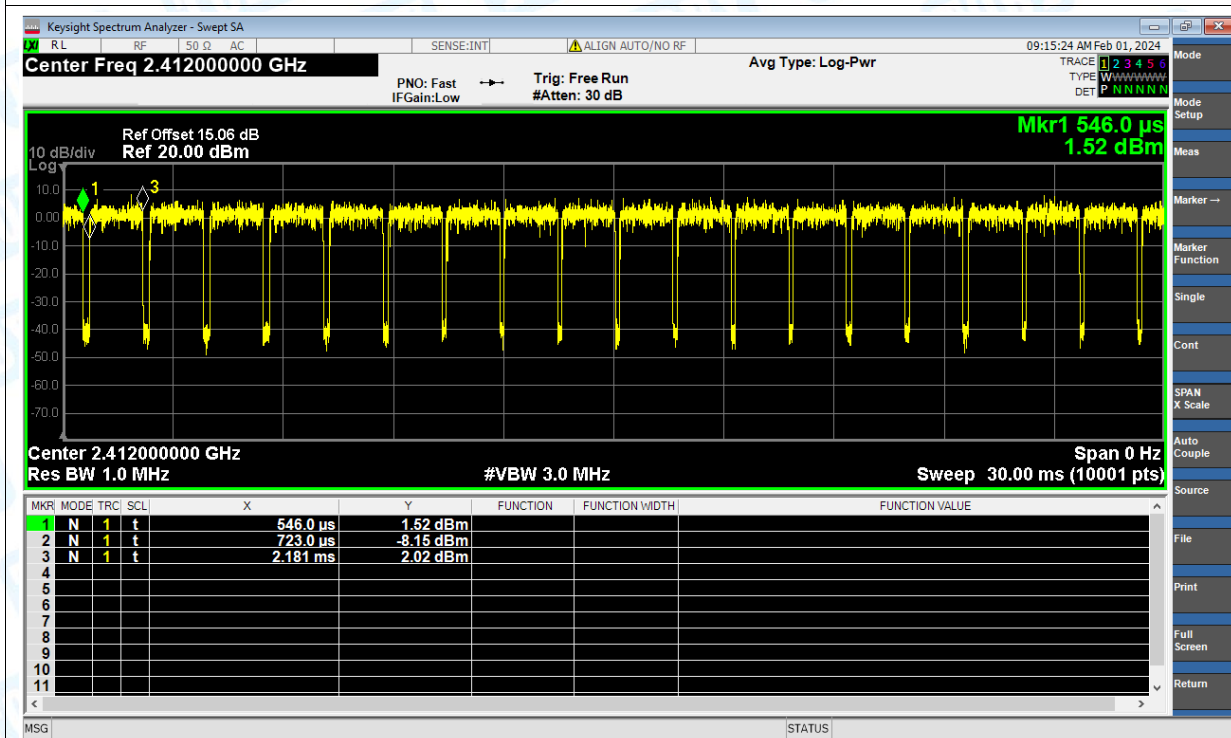
8. Restrict Band76

1. Duty Cycle

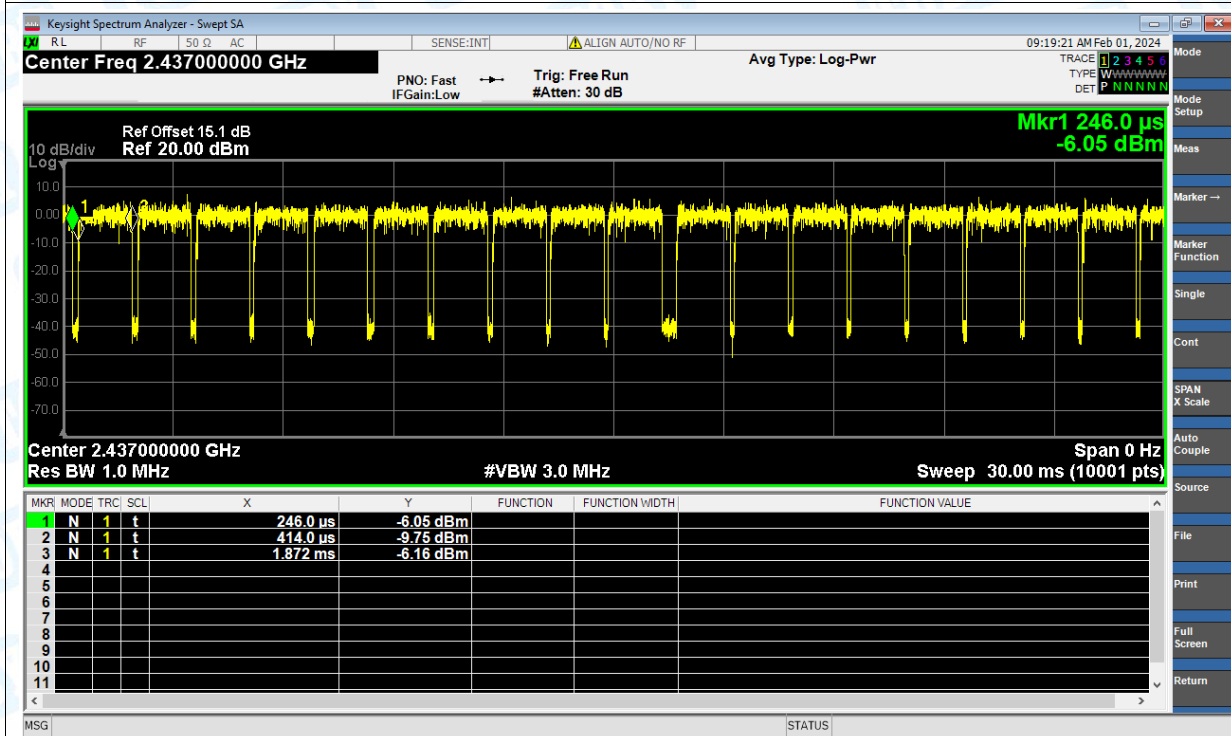
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	ax(HE20)	2412	Ant1	89.17	0.5	0.69
NVNT	ax(HE20)	2437	Ant1	89.67	0.47	0.69
NVNT	ax(HE20)	2462	Ant1	91.37	0.39	0.68
NVNT	ax(HE40)	2422	Ant1	82.61	0.83	1.32
NVNT	ax(HE40)	2437	Ant1	81.9	0.87	1.32
NVNT	ax(HE40)	2452	Ant1	84.82	0.72	1.32
NVNT	b	2412	Ant1	99.12	0.04	0.08
NVNT	b	2437	Ant1	99.12	0.04	0.08
NVNT	b	2462	Ant1	98.91	0.05	0.08
NVNT	g	2412	Ant1	94.69	0.24	0.49
NVNT	g	2437	Ant1	94.69	0.24	0.49
NVNT	g	2462	Ant1	93.9	0.27	0.49
NVNT	n(HT20)	2412	Ant1	92.25	0.35	0.53
NVNT	n(HT20)	2437	Ant1	94.32	0.25	0.53
NVNT	n(HT20)	2462	Ant1	94.32	0.25	0.53
NVNT	n(HT40)	2422	Ant1	89.31	0.49	1.07
NVNT	n(HT40)	2437	Ant1	89.23	0.49	1.08
NVNT	n(HT40)	2452	Ant1	89.31	0.49	1.07

Test Graphs

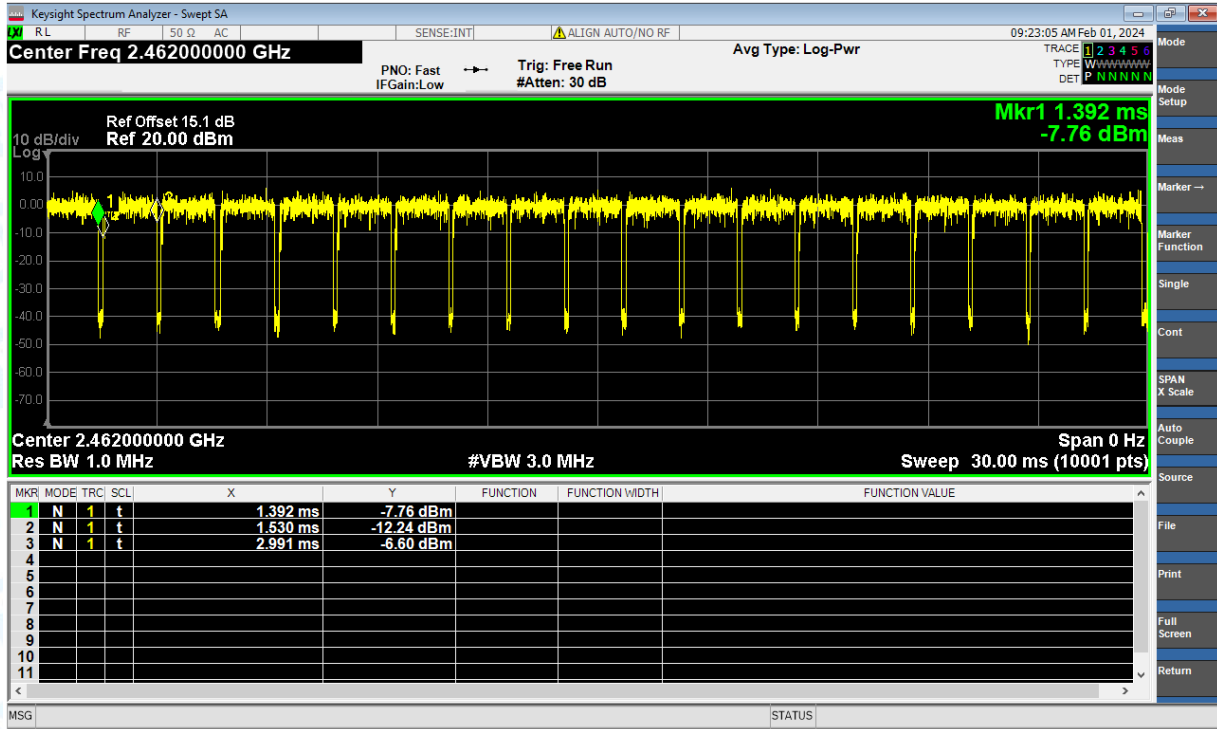
Duty Cycle NVNT ax(HE20) 2412MHz Ant1



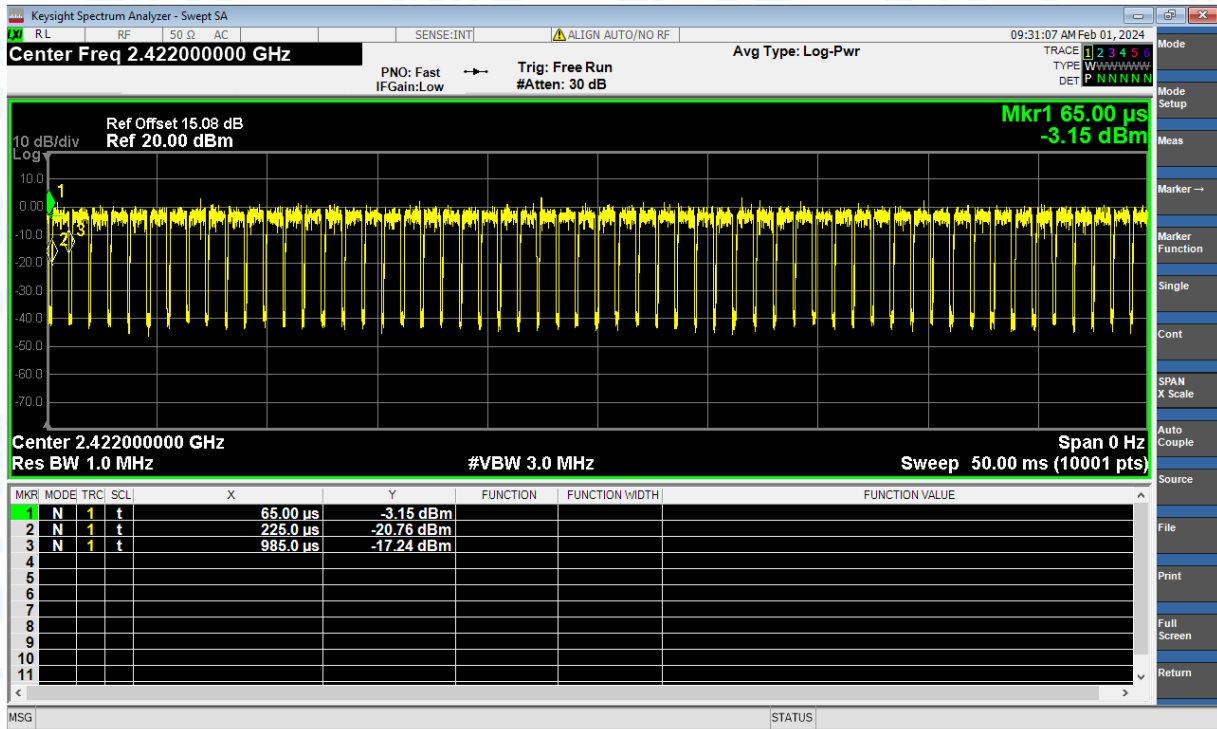
Duty Cycle NVNT ax(HE20) 2437MHz Ant1



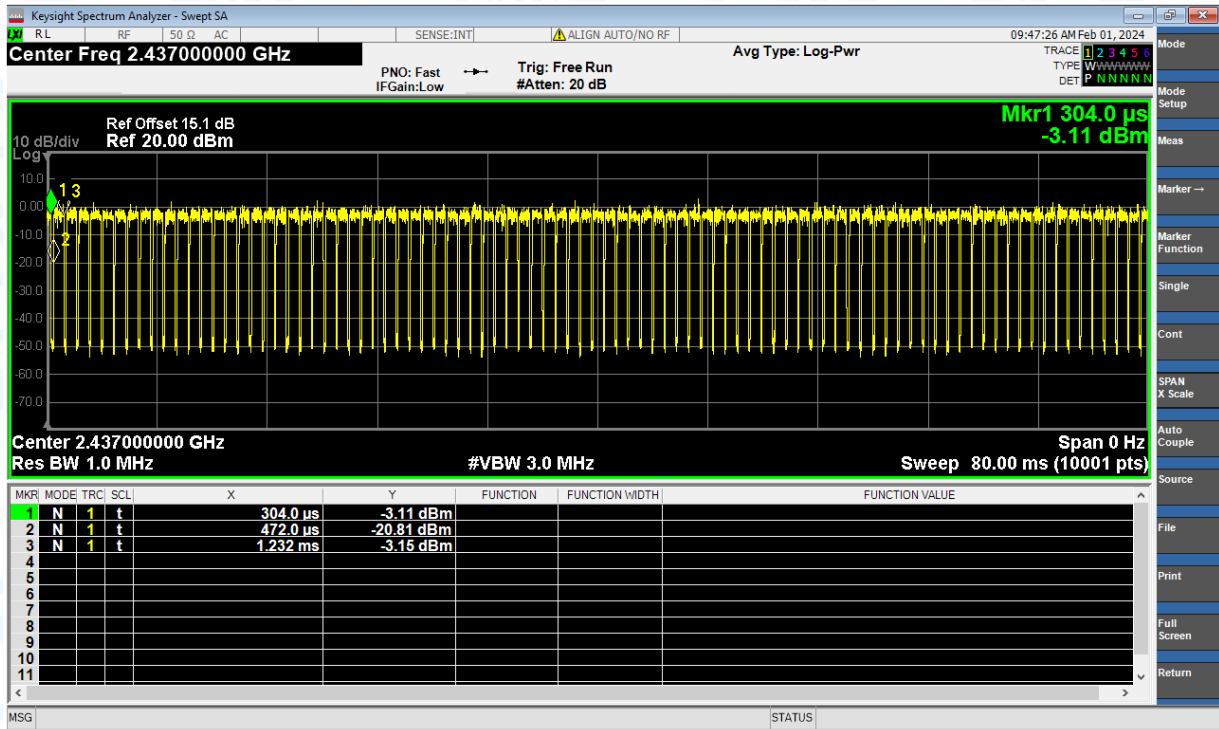
Duty Cycle NVNT ax(HE20) 2462MHz Ant1



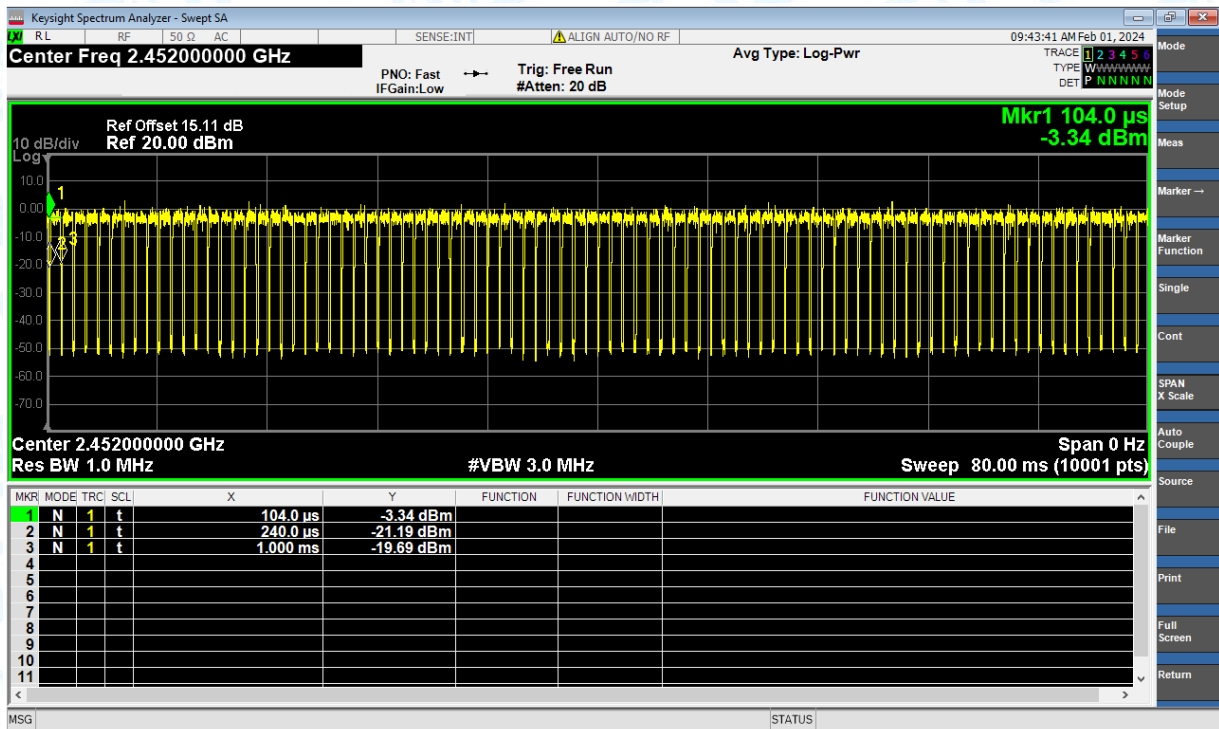
Duty Cycle NVNT ax(HE40) 2422MHz Ant1



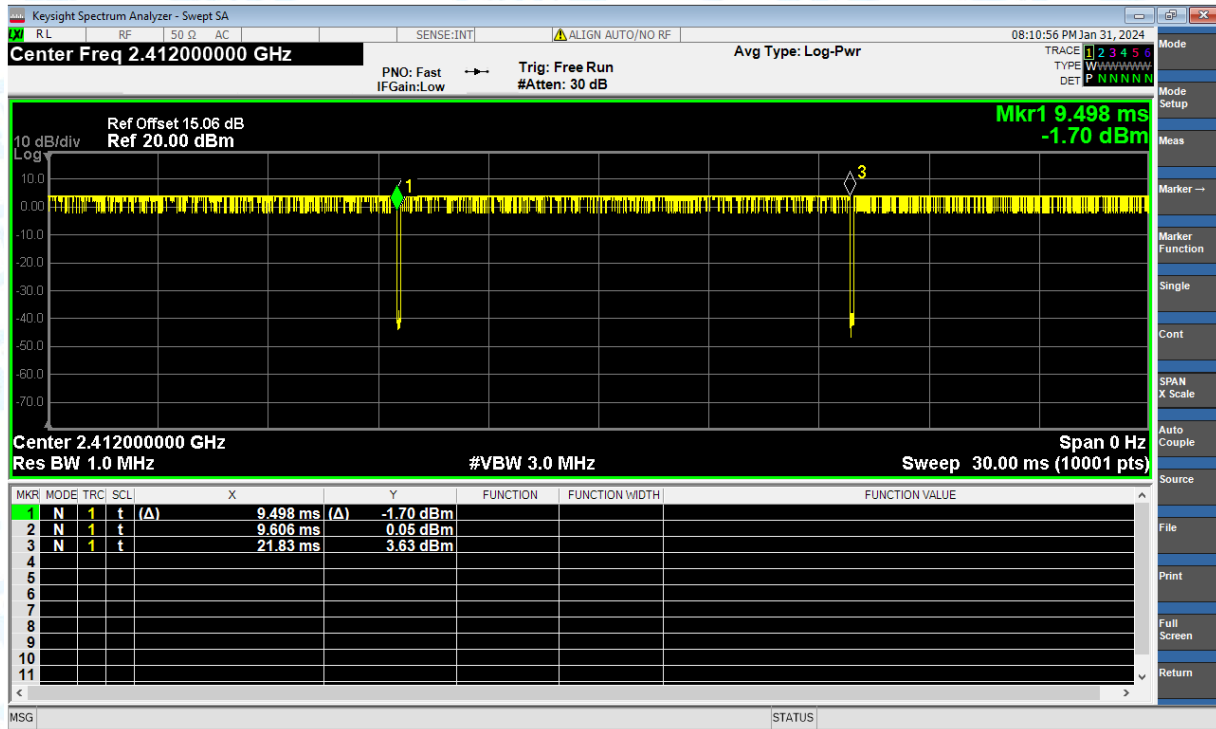
Duty Cycle NVNT ax(HE40) 2437MHz Ant1



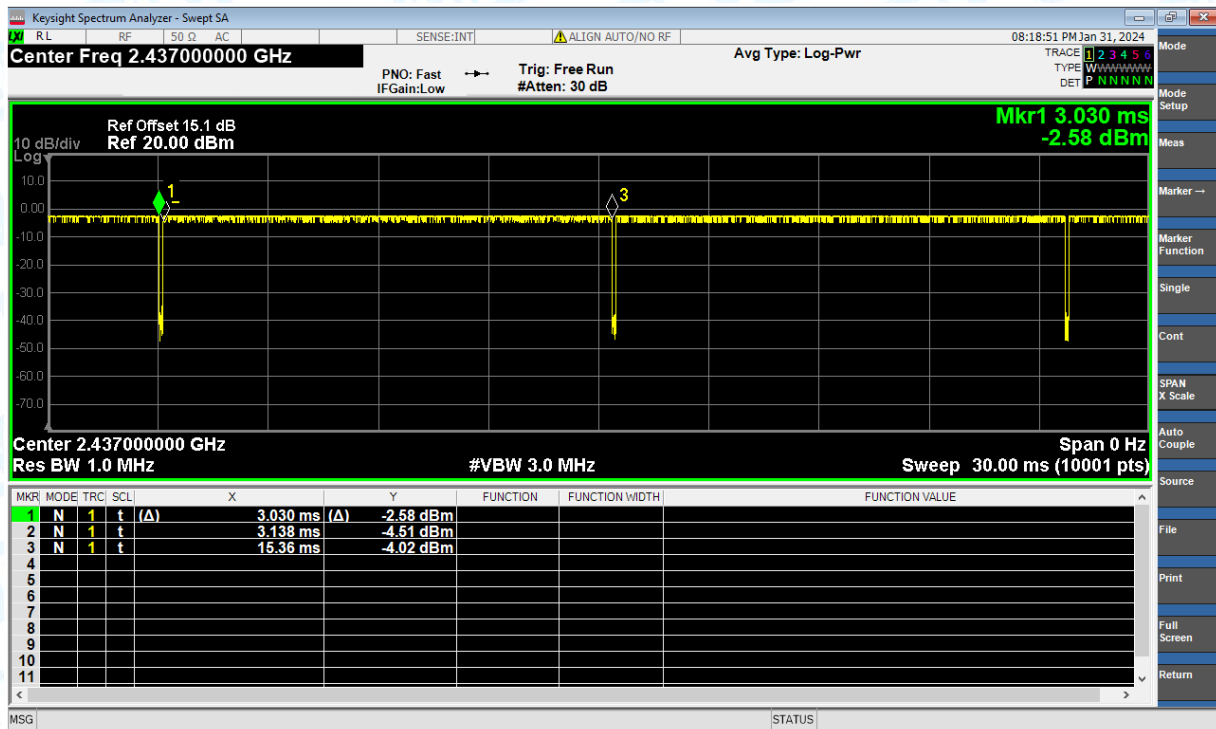
Duty Cycle NVNT ax(HE40) 2452MHz Ant1



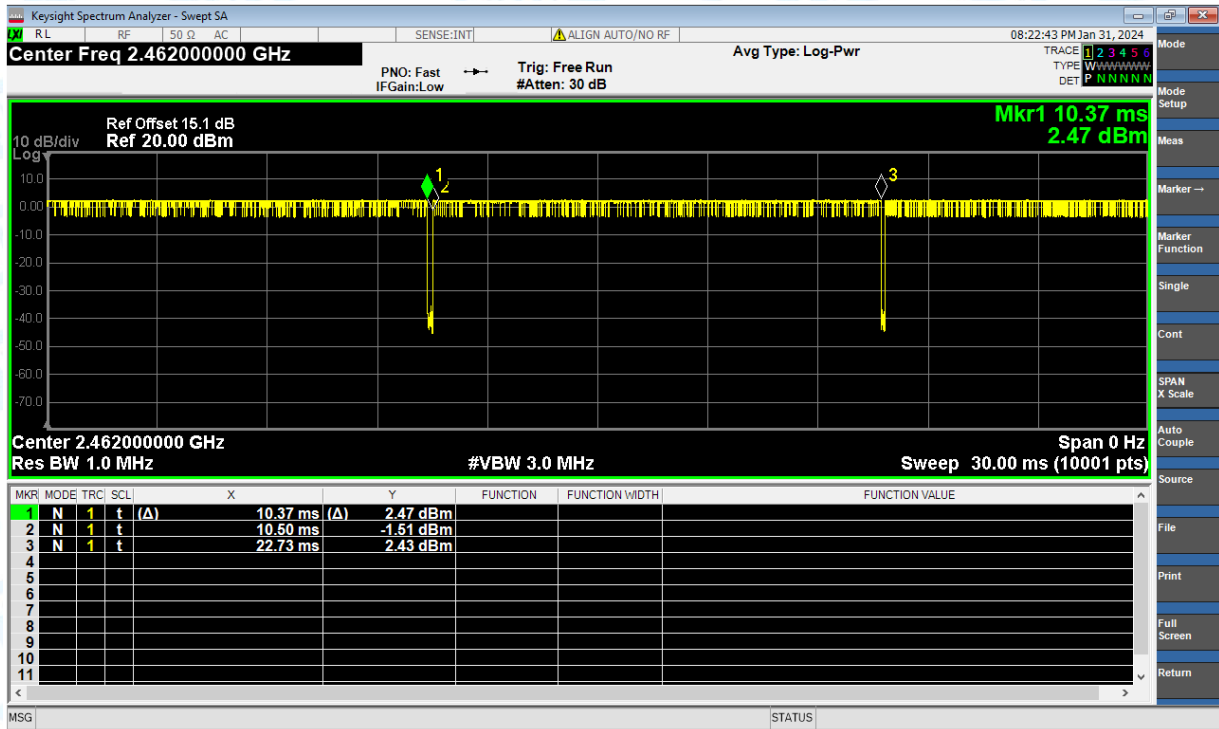
Duty Cycle NVNT b 2412MHz Ant1



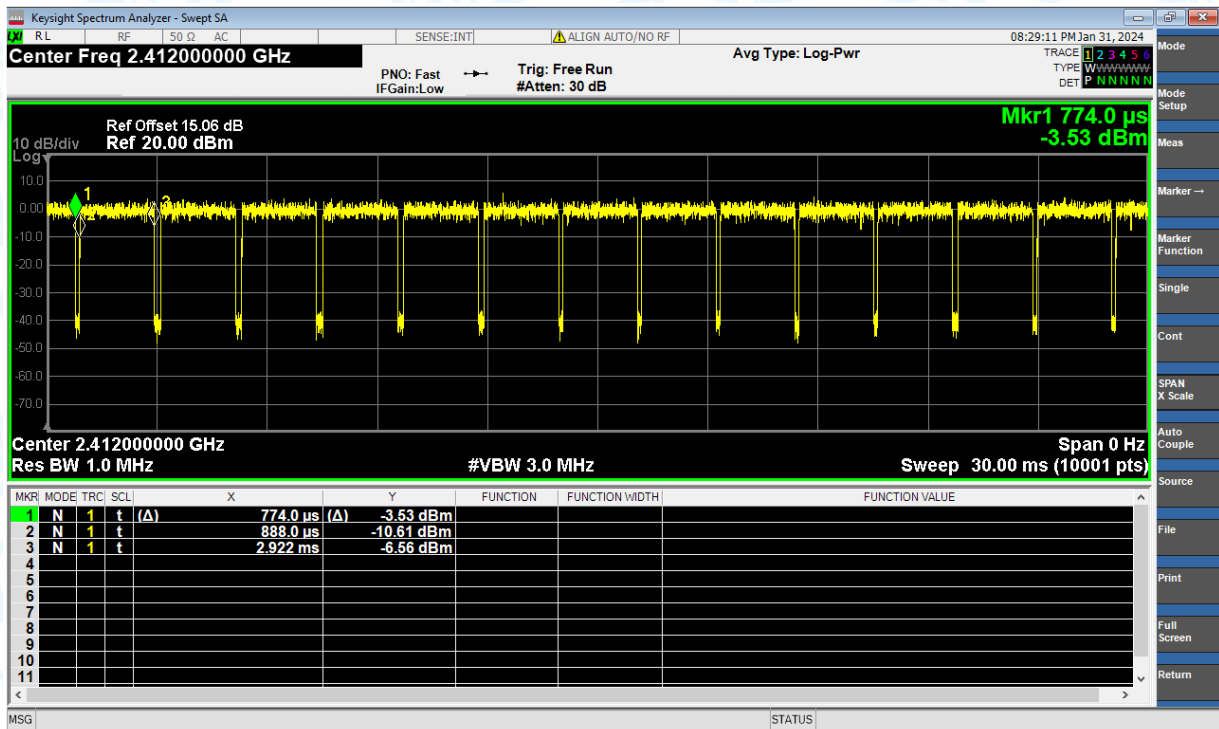
Duty Cycle NVNT b 2437MHz Ant1



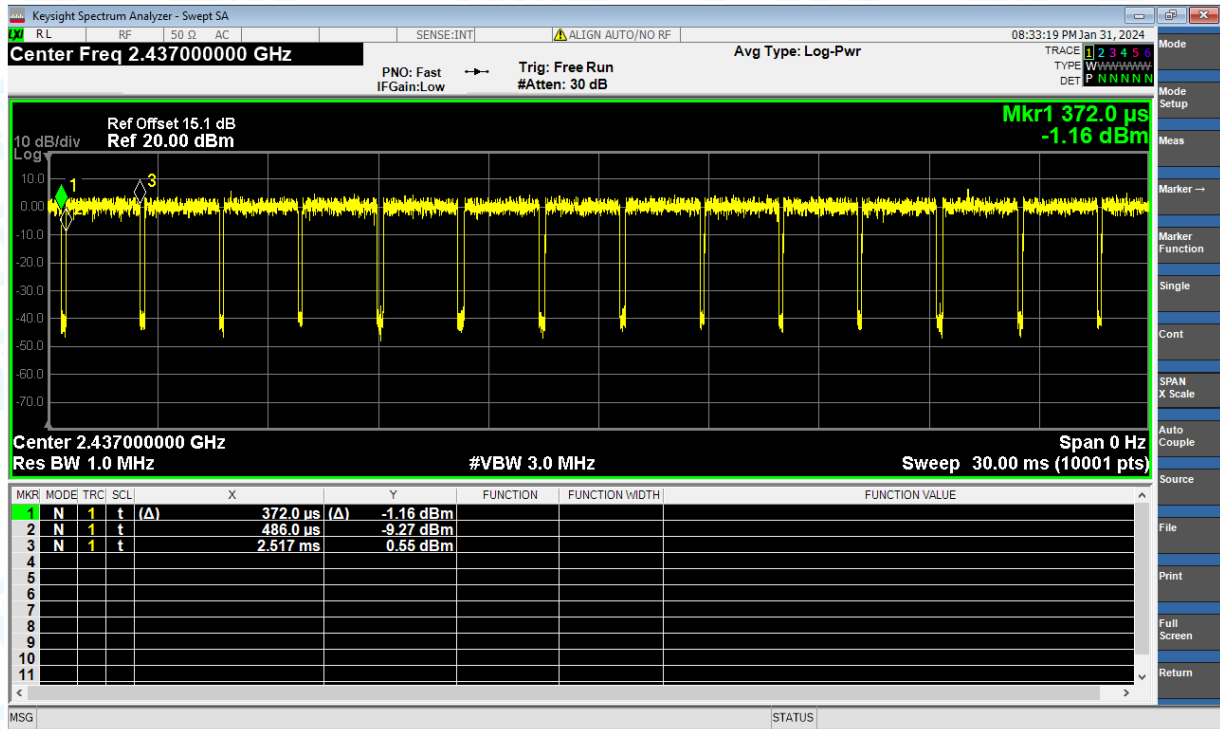
Duty Cycle NVNT b 2462MHz Ant1



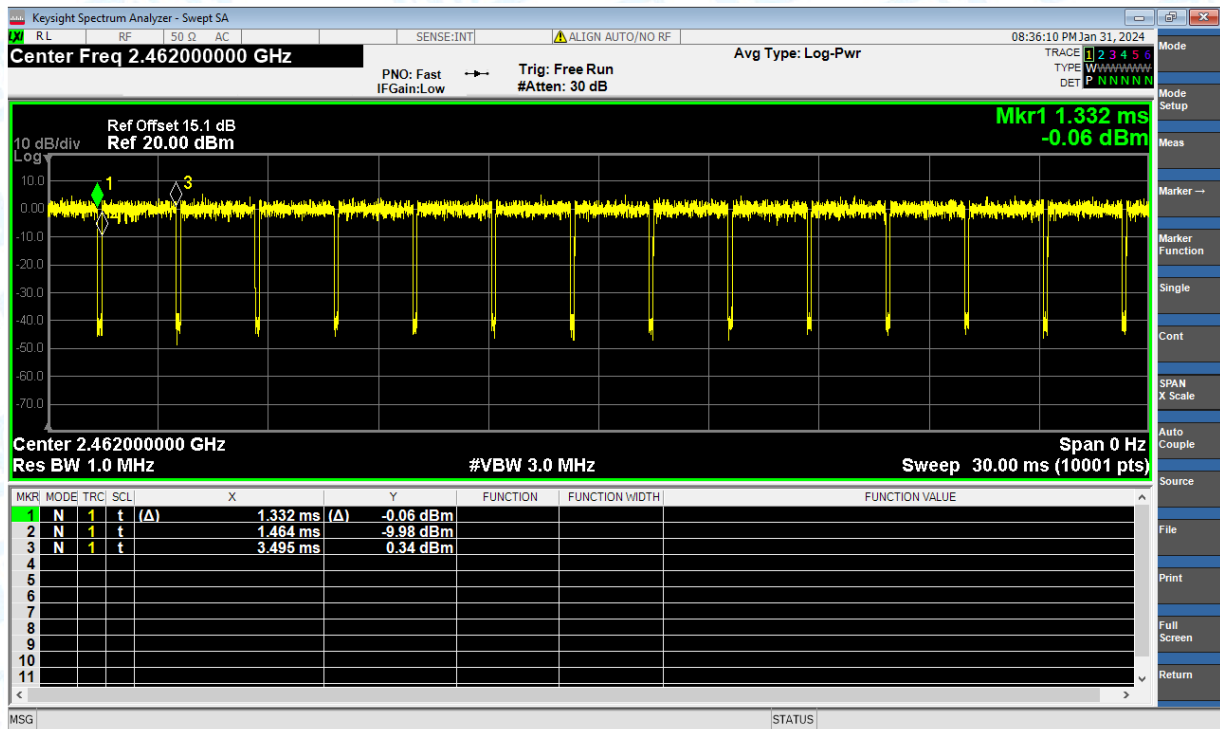
Duty Cycle NVNT g 2412MHz Ant1



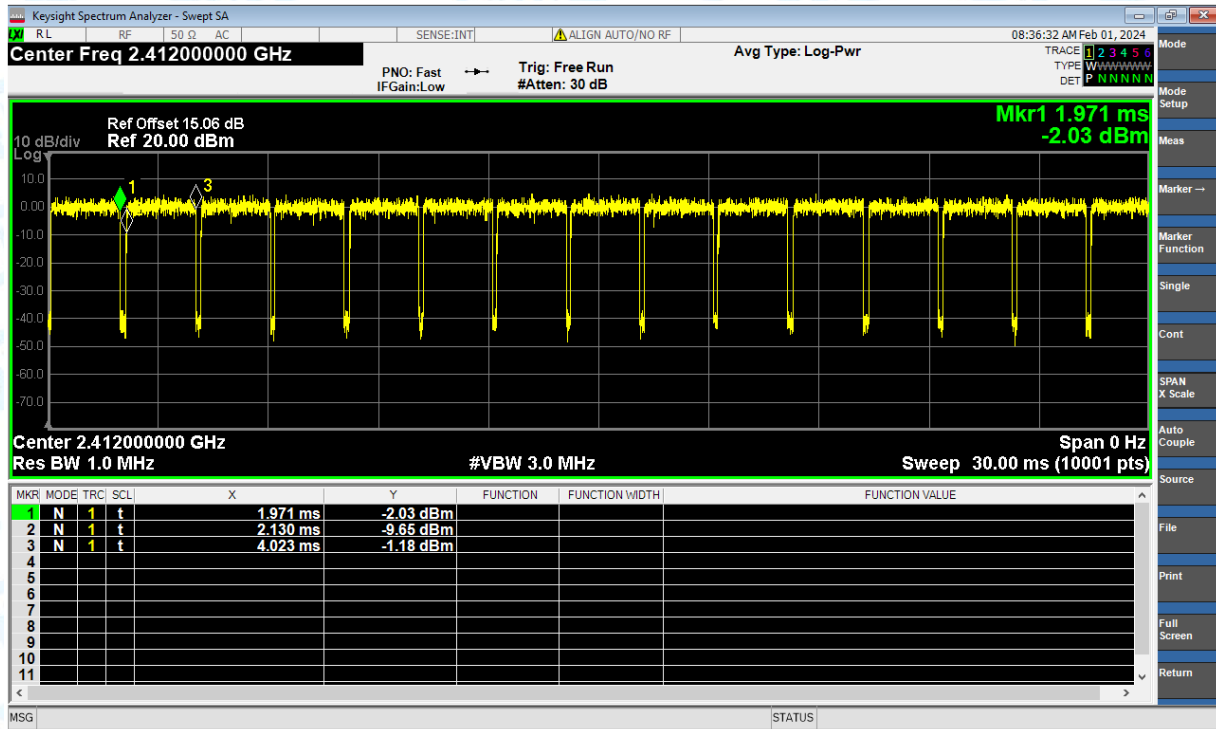
Duty Cycle NVNT g 2437MHz Ant1



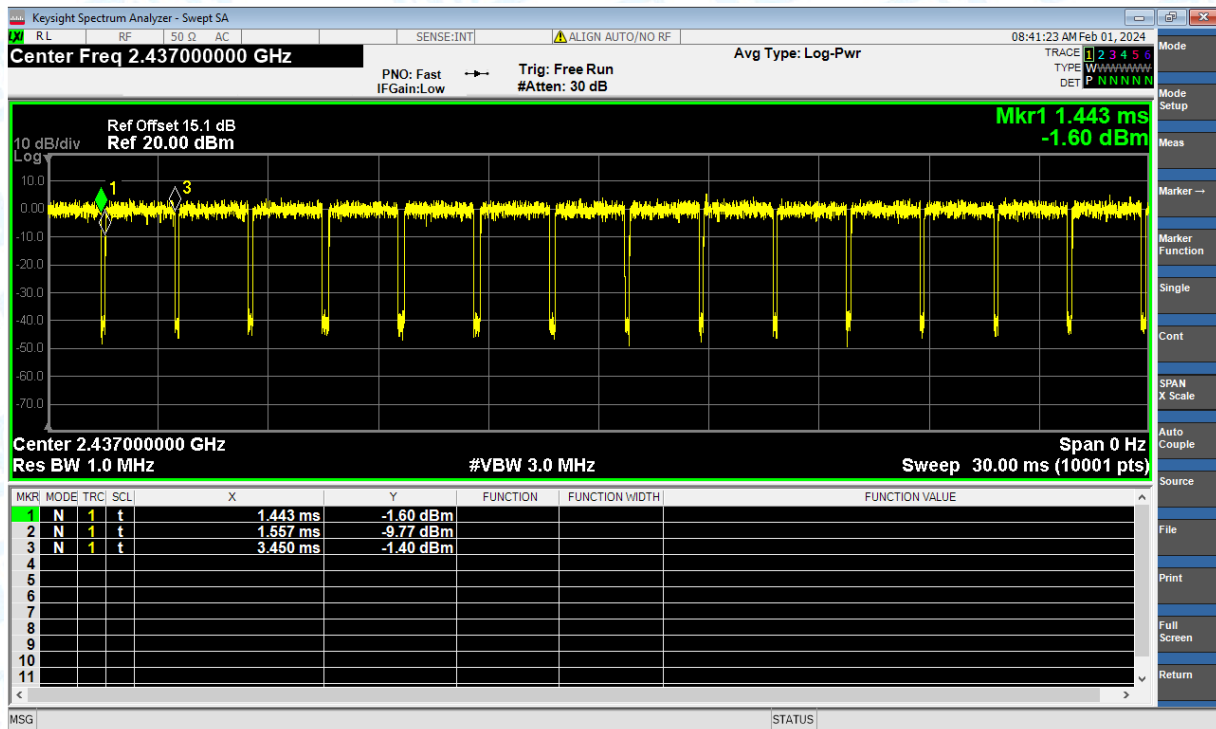
Duty Cycle NVNT g 2462MHz Ant1



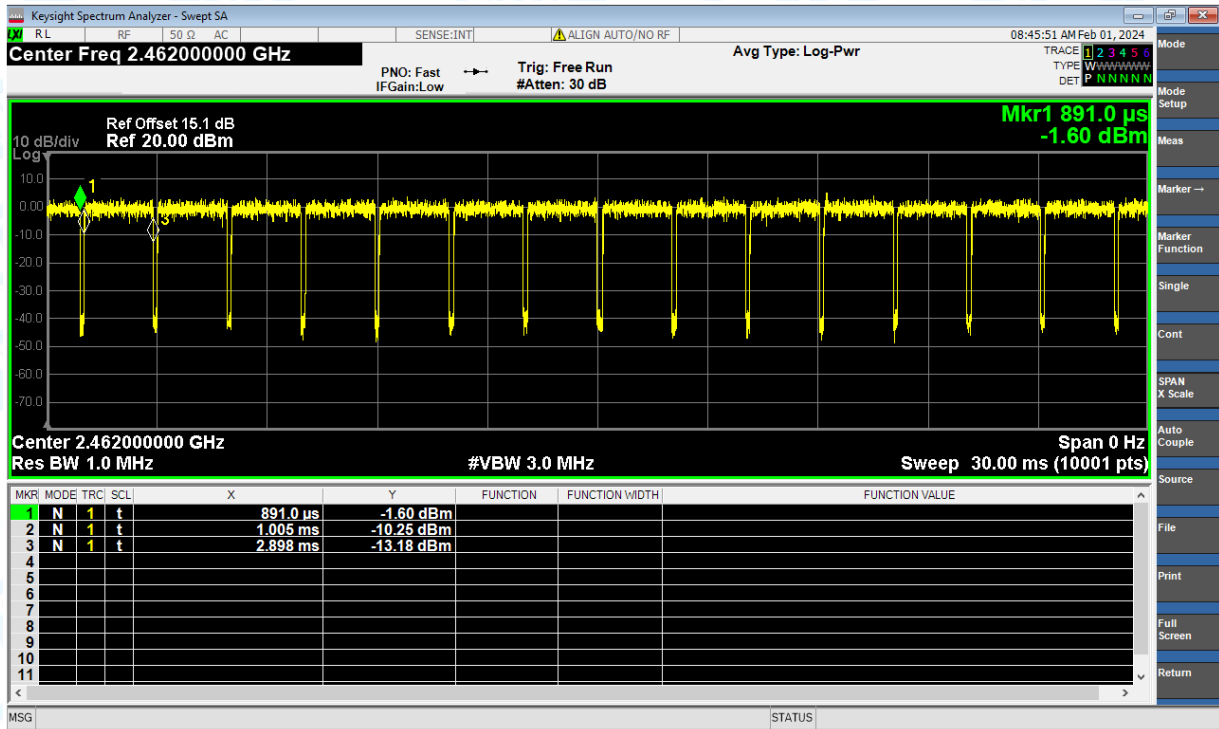
Duty Cycle NVNT n(HT20) 2412MHz Ant1



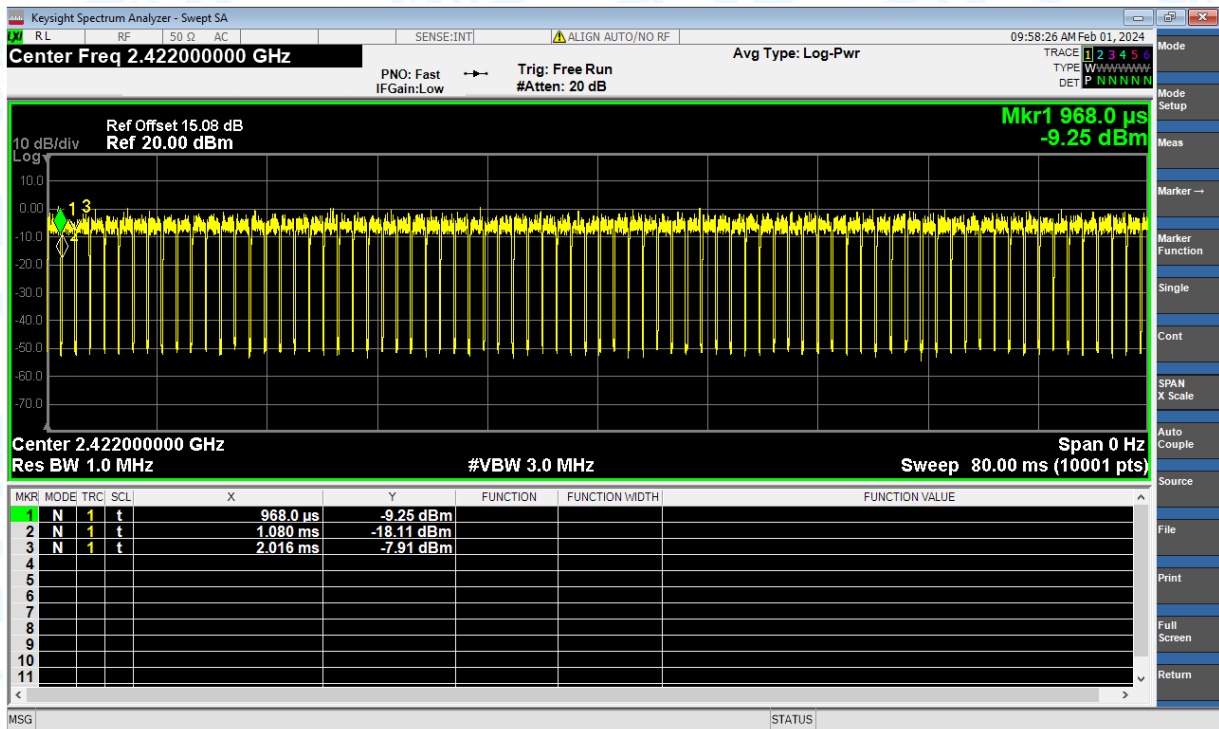
Duty Cycle NVNT n(HT20) 2437MHz Ant1



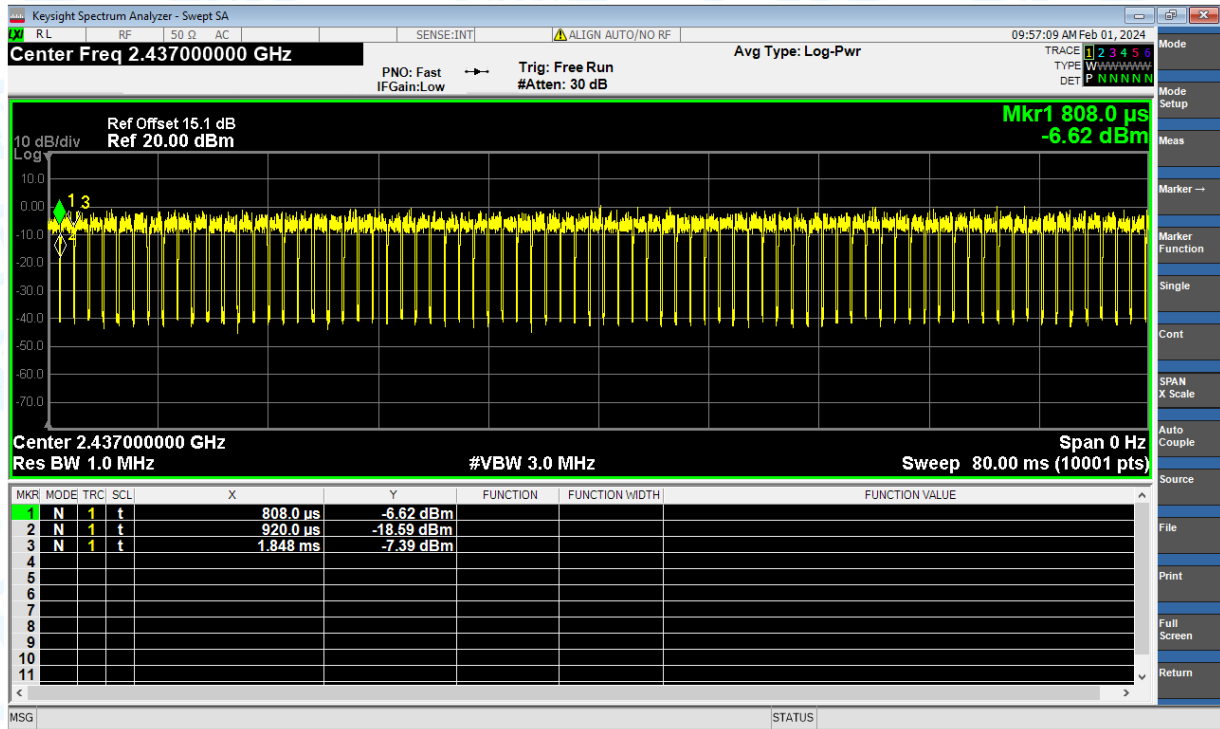
Duty Cycle NVNT n(HT20) 2462MHz Ant1



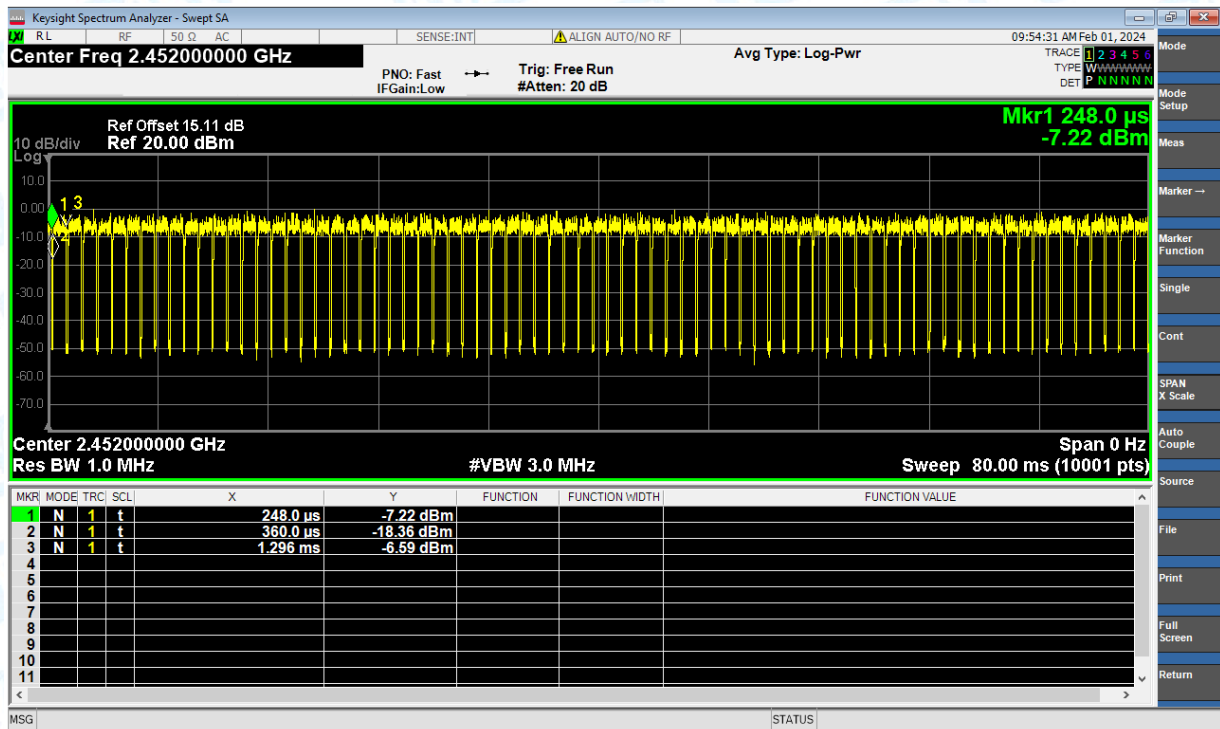
Duty Cycle NVNT n(HT40) 2422MHz Ant1



Duty Cycle NVNT n(HT40) 2437MHz Ant1



Duty Cycle NVNT n(HT40) 2452MHz Ant1



2. Maximum Conducted Output Power

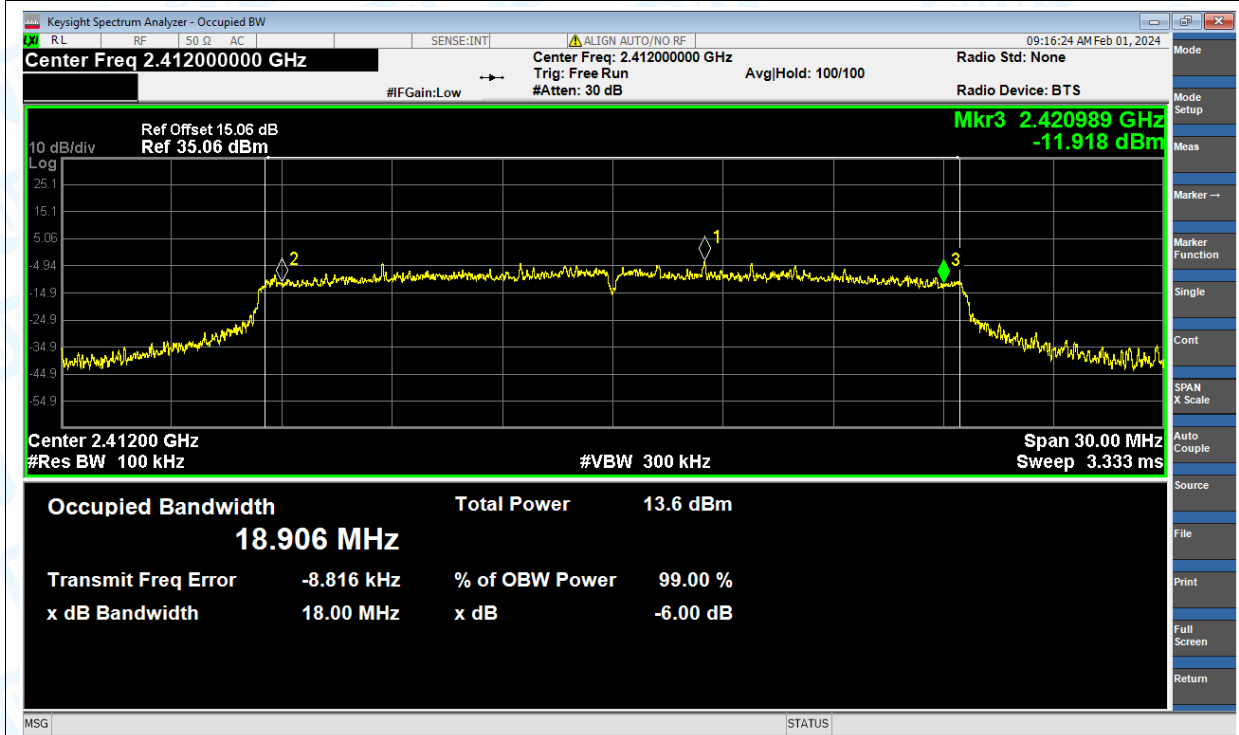
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	ax(HE20)	2412	Ant1	7.16	30	Pass
NVNT	ax(HE20)	2437	Ant1	6.94	30	Pass
NVNT	ax(HE20)	2462	Ant1	6.45	30	Pass
NVNT	ax(HE40)	2422	Ant1	7.37	30	Pass
NVNT	ax(HE40)	2437	Ant1	7.27	30	Pass
NVNT	ax(HE40)	2452	Ant1	6.91	30	Pass
NVNT	b	2412	Ant1	7.88	30	Pass
NVNT	b	2437	Ant1	7.25	30	Pass
NVNT	b	2462	Ant1	7.05	30	Pass
NVNT	g	2412	Ant1	7.35	30	Pass
NVNT	g	2437	Ant1	7.12	30	Pass
NVNT	g	2462	Ant1	6.75	30	Pass
NVNT	n(HT20)	2412	Ant1	7.01	30	Pass
NVNT	n(HT20)	2437	Ant1	6.72	30	Pass
NVNT	n(HT20)	2462	Ant1	7.9	30	Pass
NVNT	n(HT40)	2422	Ant1	7.12	30	Pass
NVNT	n(HT40)	2437	Ant1	6.97	30	Pass
NVNT	n(HT40)	2452	Ant1	6.75	30	Pass

3. -6dB Bandwidth

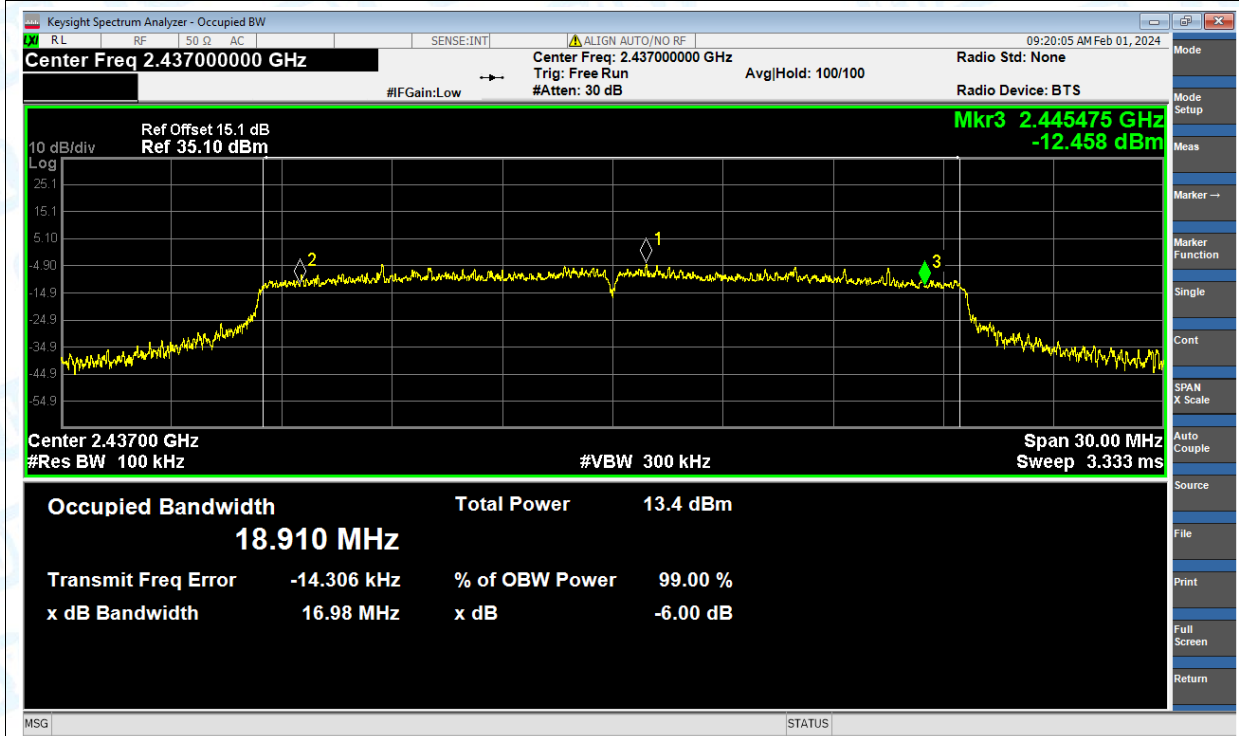
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	ax(HE20)	2412	Ant1	18	0.5	Pass
NVNT	ax(HE20)	2437	Ant1	16.98	0.5	Pass
NVNT	ax(HE20)	2462	Ant1	16.13	0.5	Pass
NVNT	ax(HE40)	2422	Ant1	36.77	0.5	Pass
NVNT	ax(HE40)	2437	Ant1	35.91	0.5	Pass
NVNT	ax(HE40)	2452	Ant1	34.9	0.5	Pass
NVNT	b	2412	Ant1	10.01	0.5	Pass
NVNT	b	2437	Ant1	9.58	0.5	Pass
NVNT	b	2462	Ant1	10.06	0.5	Pass
NVNT	g	2412	Ant1	15.63	0.5	Pass
NVNT	g	2437	Ant1	15.41	0.5	Pass
NVNT	g	2462	Ant1	15.93	0.5	Pass
NVNT	n(HT20)	2412	Ant1	15.93	0.5	Pass
NVNT	n(HT20)	2437	Ant1	15.08	0.5	Pass
NVNT	n(HT20)	2462	Ant1	14.96	0.5	Pass
NVNT	n(HT40)	2422	Ant1	35.02	0.5	Pass
NVNT	n(HT40)	2437	Ant1	32.98	0.5	Pass
NVNT	n(HT40)	2452	Ant1	35.13	0.5	Pass

Test Graphs

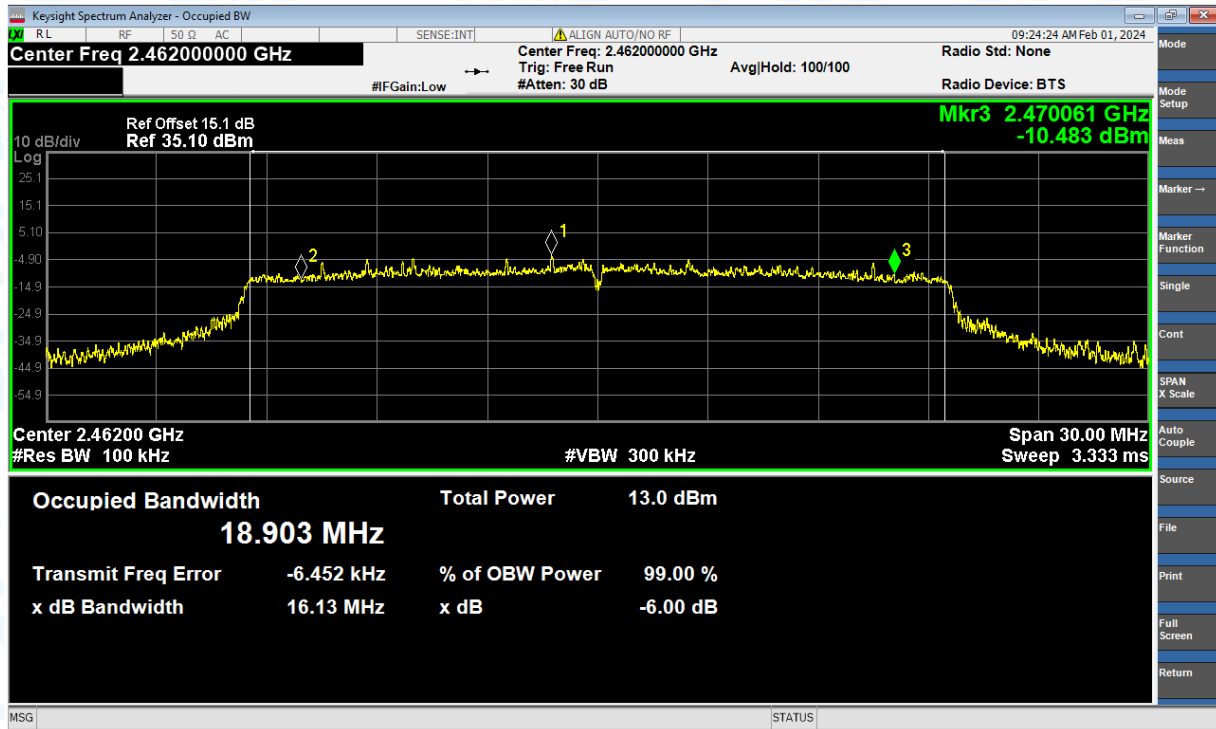
-6dB Bandwidth NVNT ax(HE20) 2412MHz Ant1



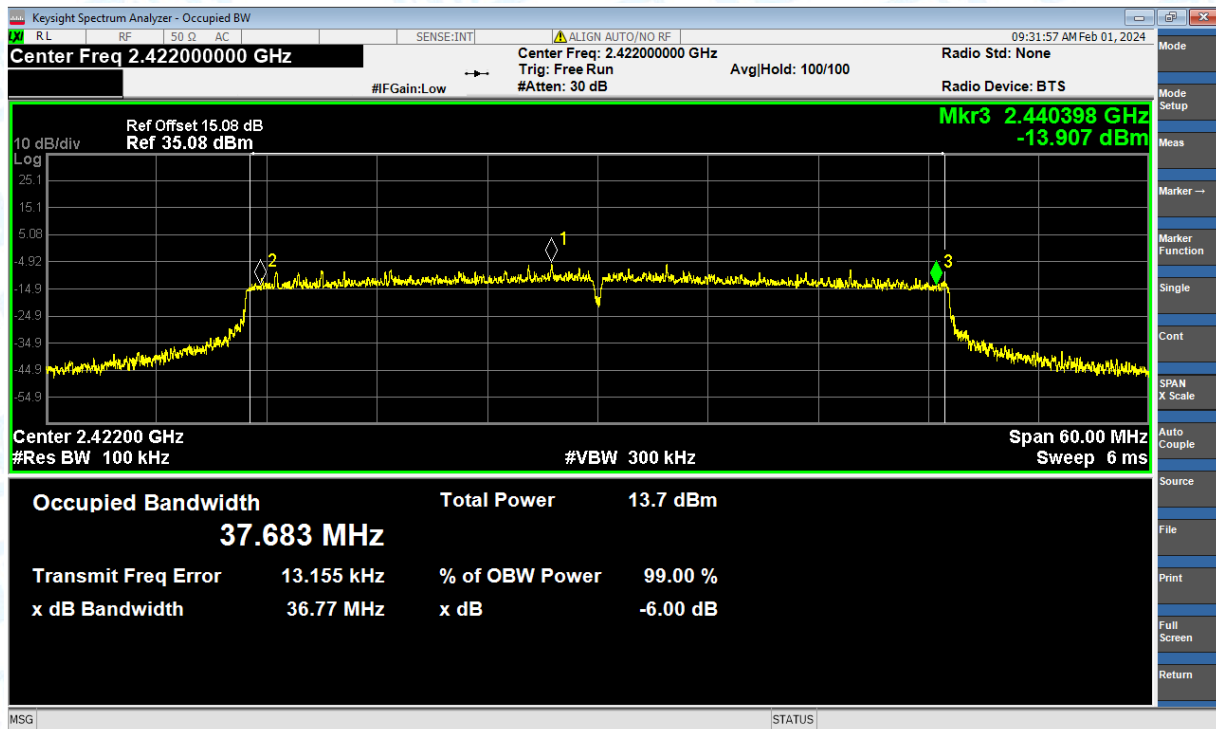
-6dB Bandwidth NVNT ax(HE20) 2437MHz Ant1



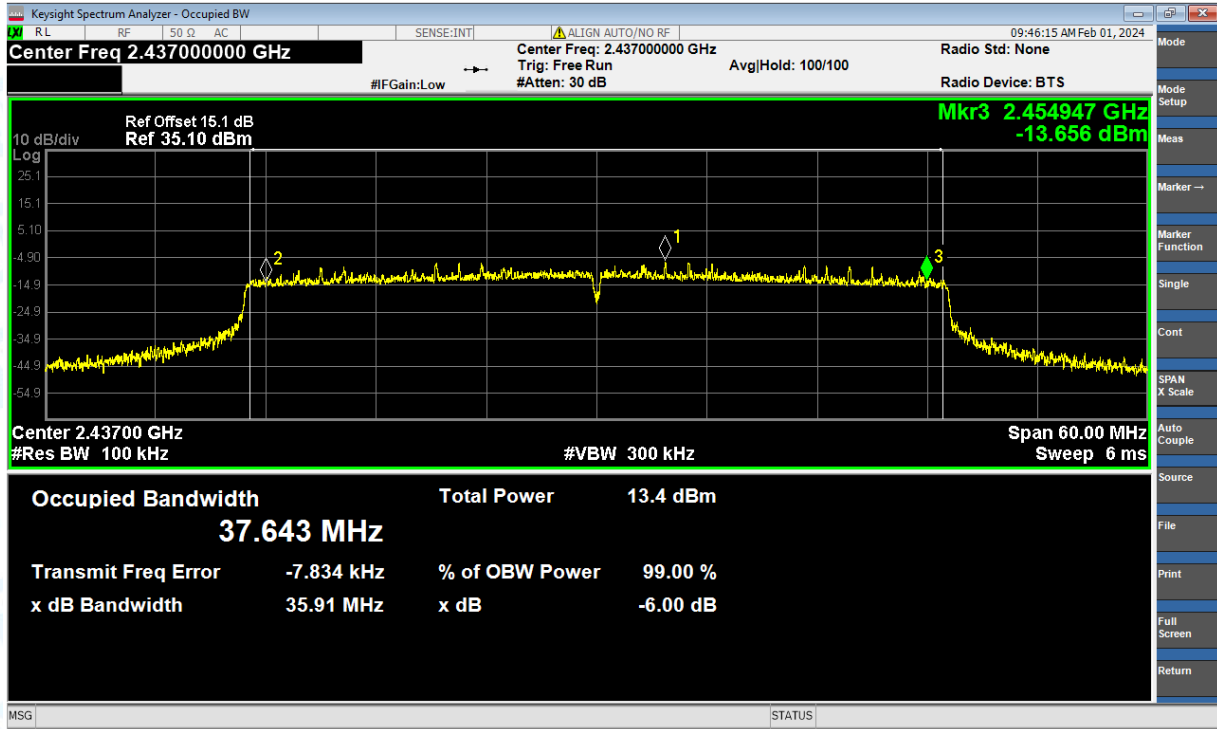
-6dB Bandwidth NVNT ax(HE20) 2462MHz Ant1



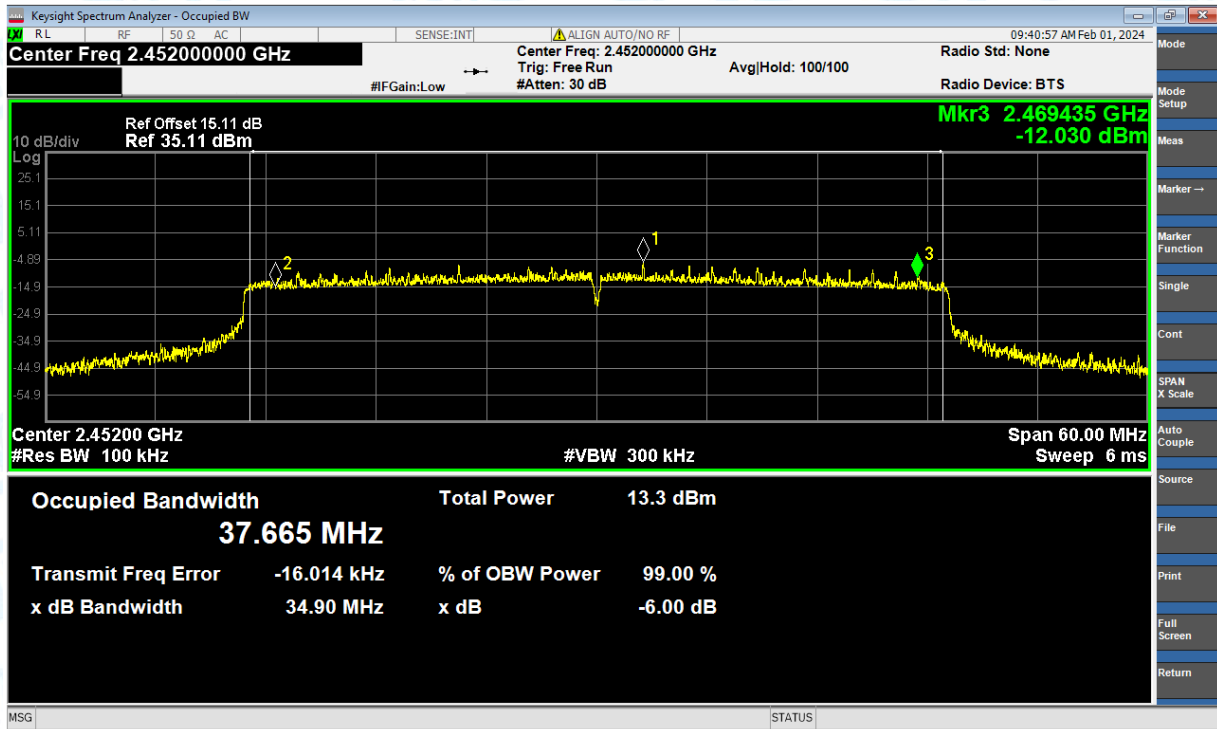
-6dB Bandwidth NVNT ax(HE40) 2422MHz Ant1



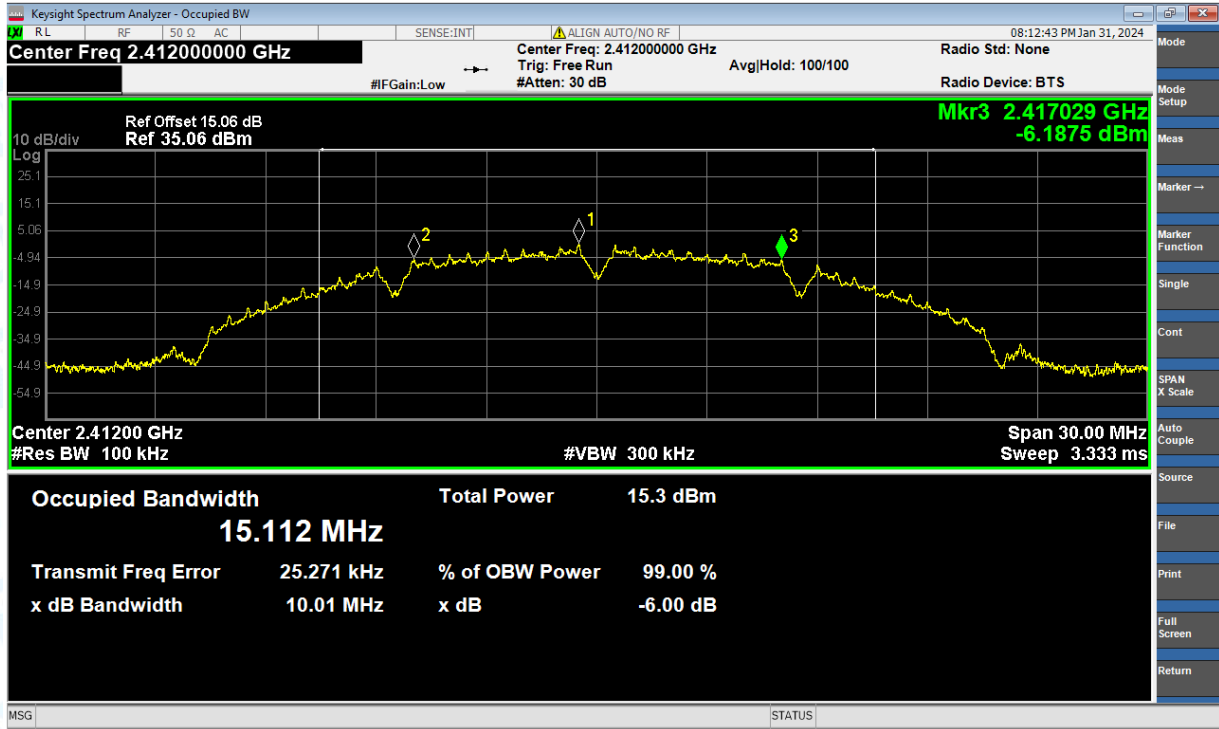
-6dB Bandwidth NVNT ax(HE40) 2437MHz Ant1



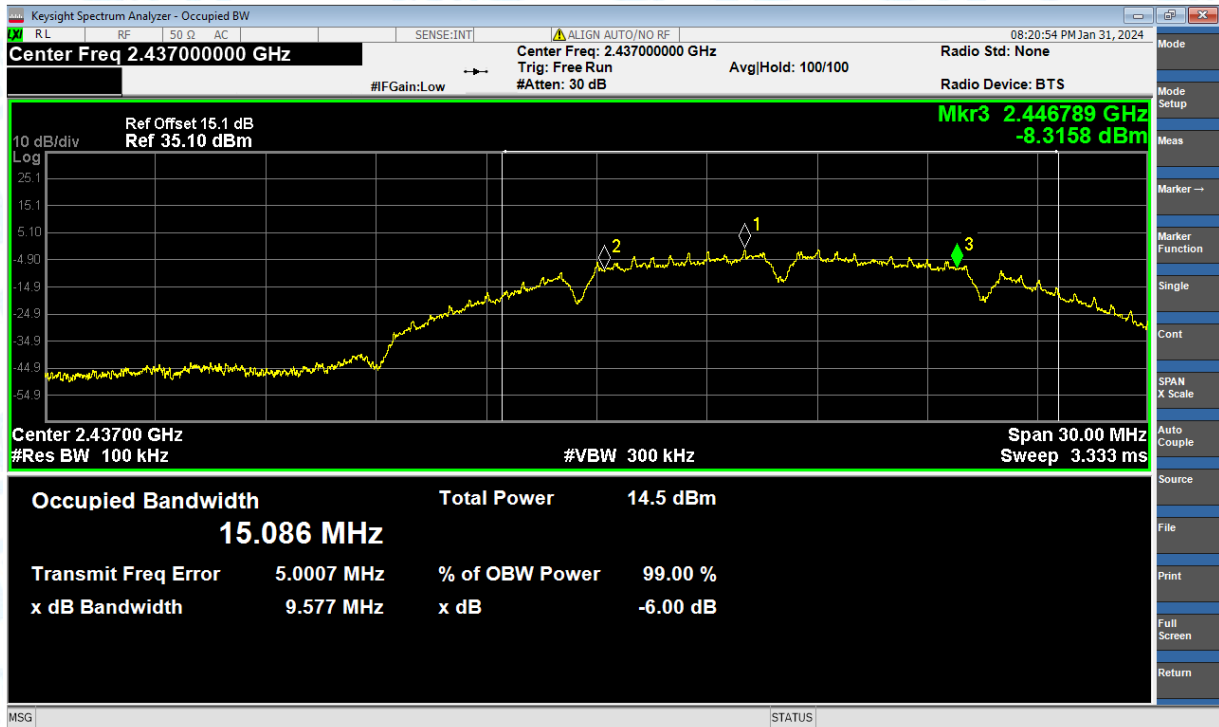
-6dB Bandwidth NVNT ax(HE40) 2452MHz Ant1



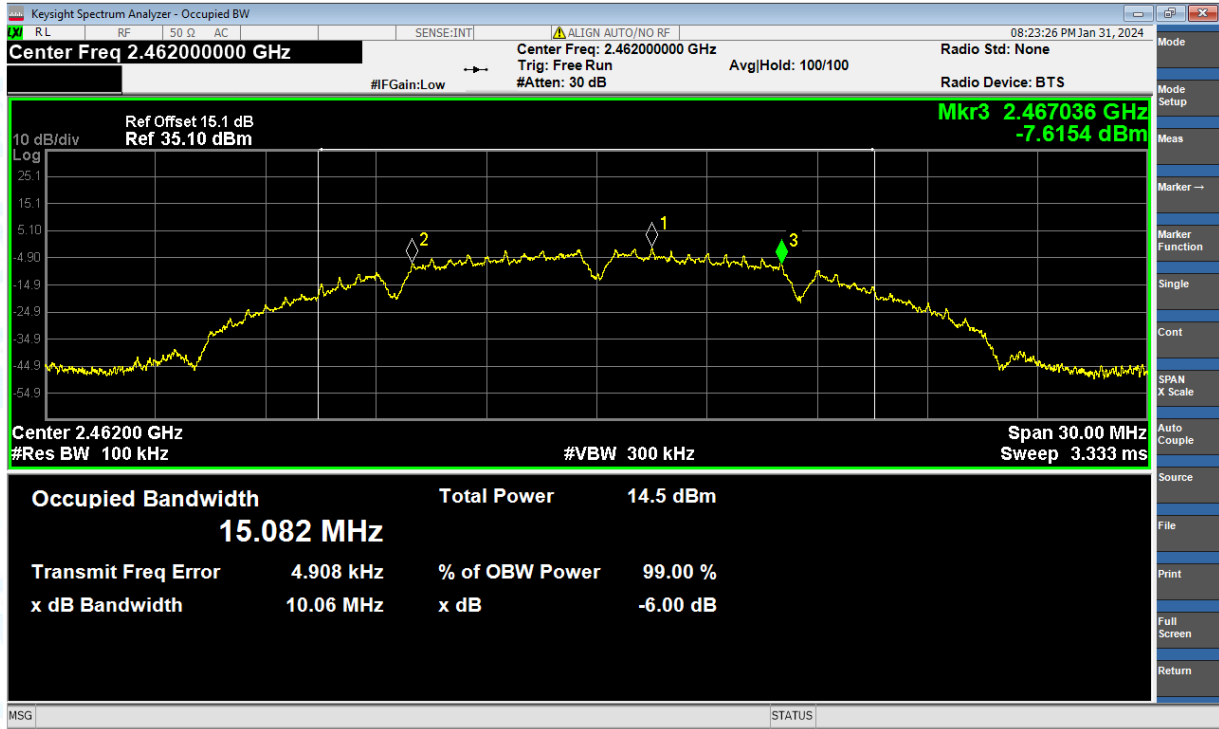
-6dB Bandwidth NVNT b 2412MHz Ant1



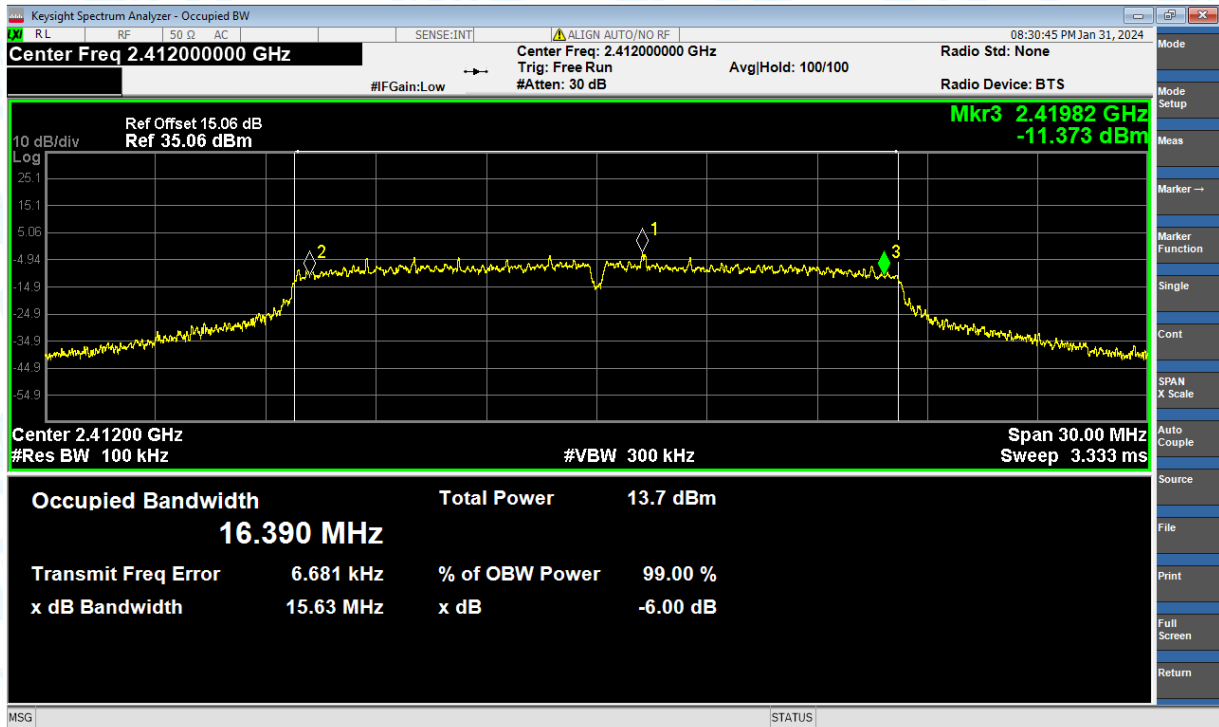
-6dB Bandwidth NVNT b 2437MHz Ant1



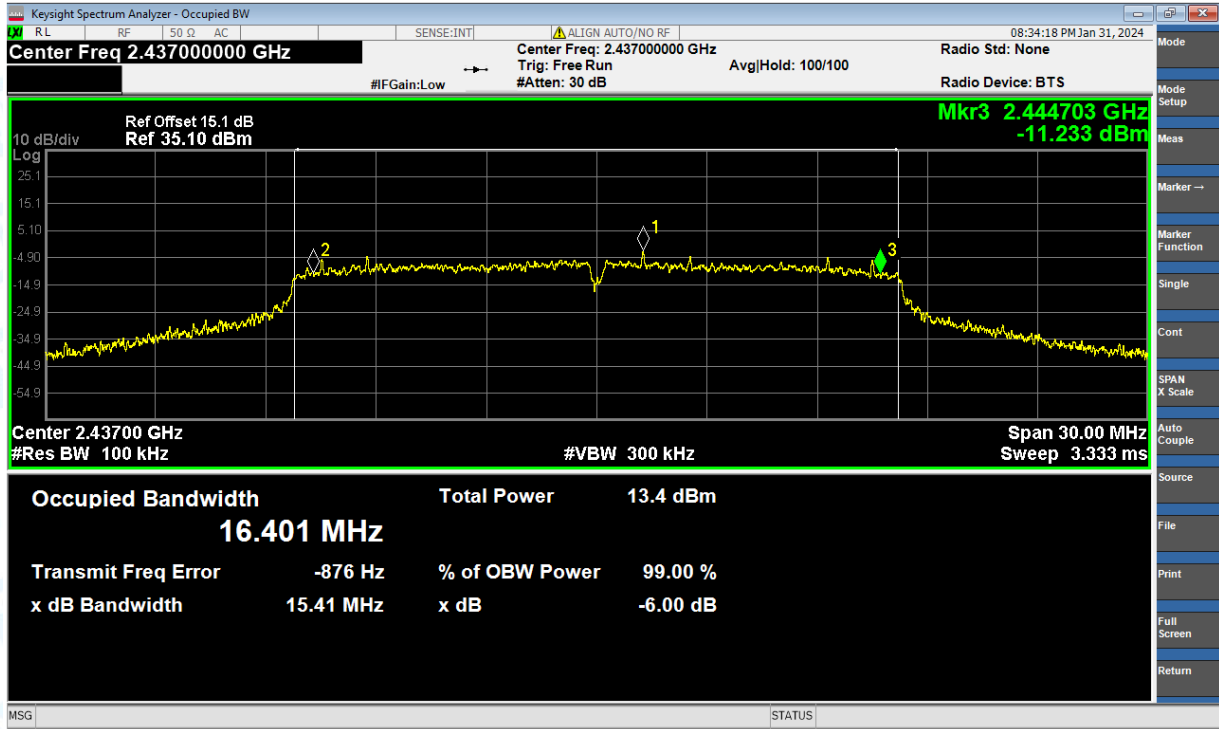
-6dB Bandwidth NVNT b 2462MHz Ant1



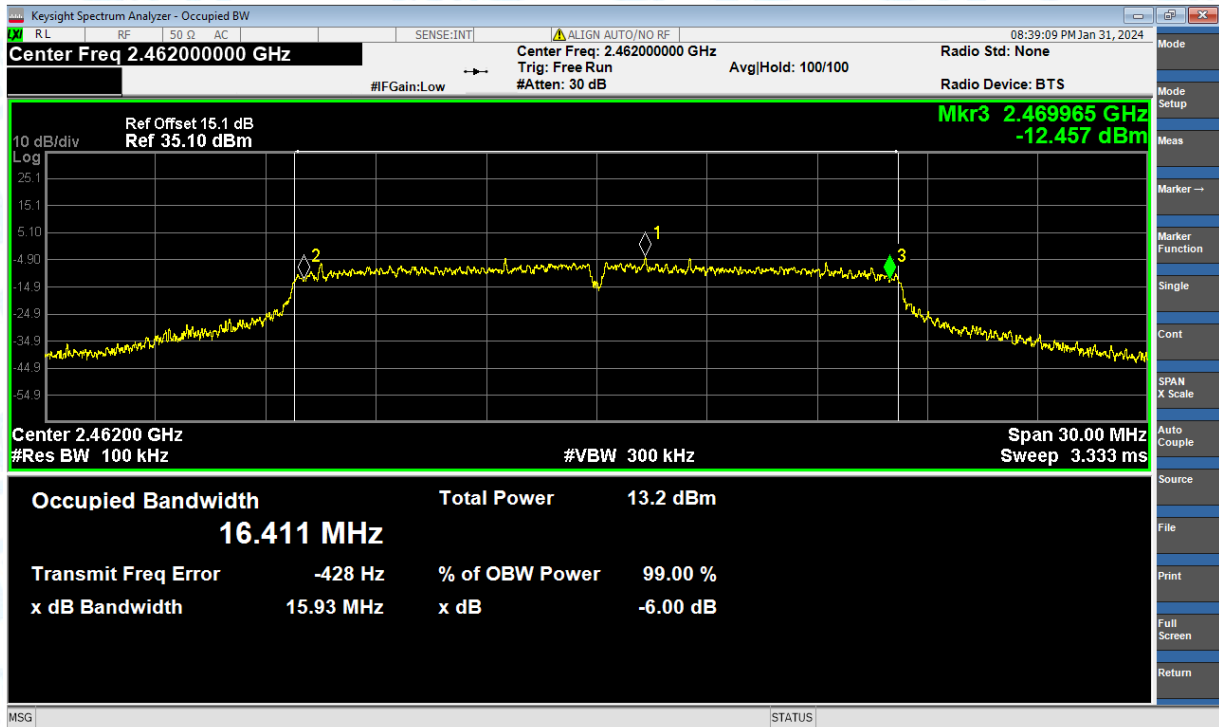
-6dB Bandwidth NVNT g 2412MHz Ant1



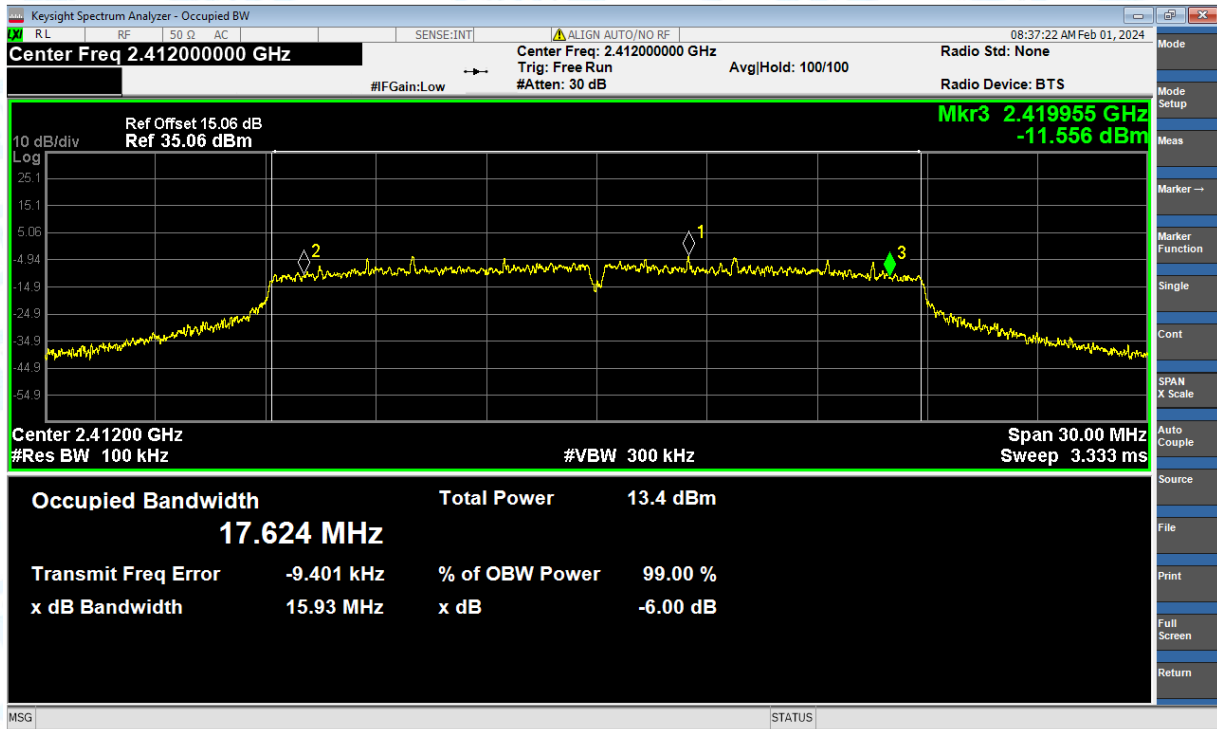
-6dB Bandwidth NVNT g 2437MHz Ant1



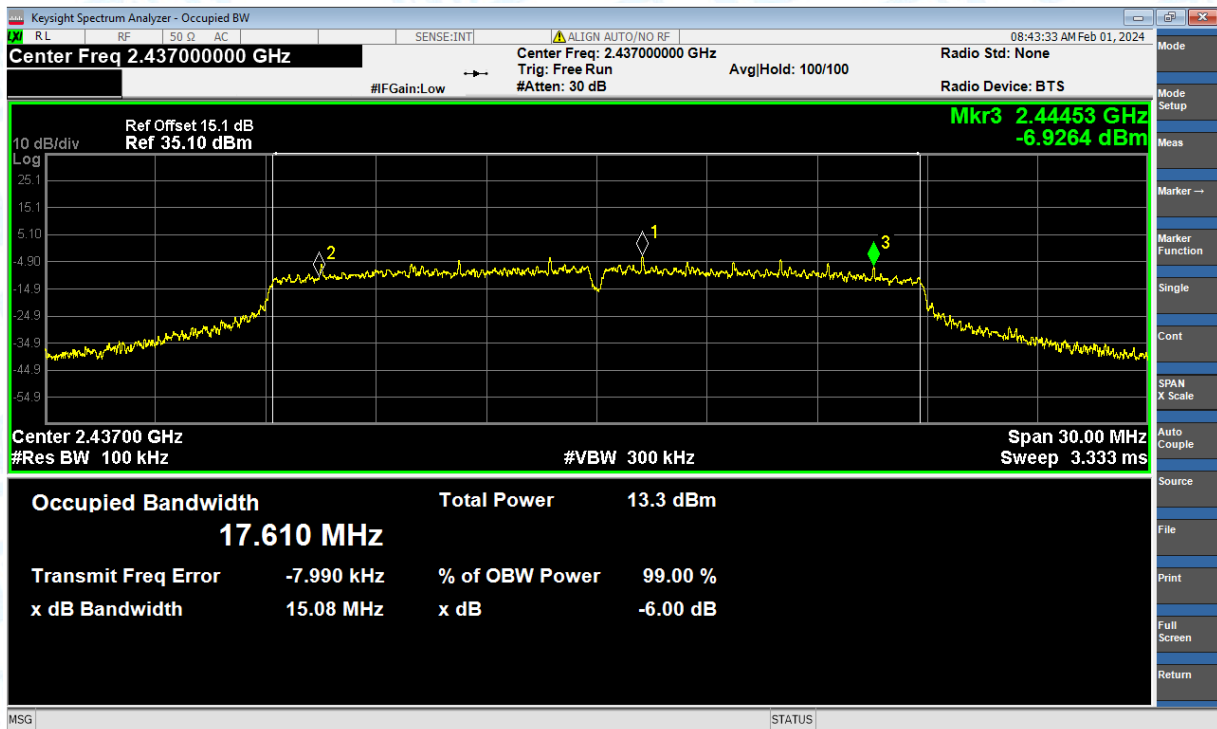
-6dB Bandwidth NVNT g 2462MHz Ant1



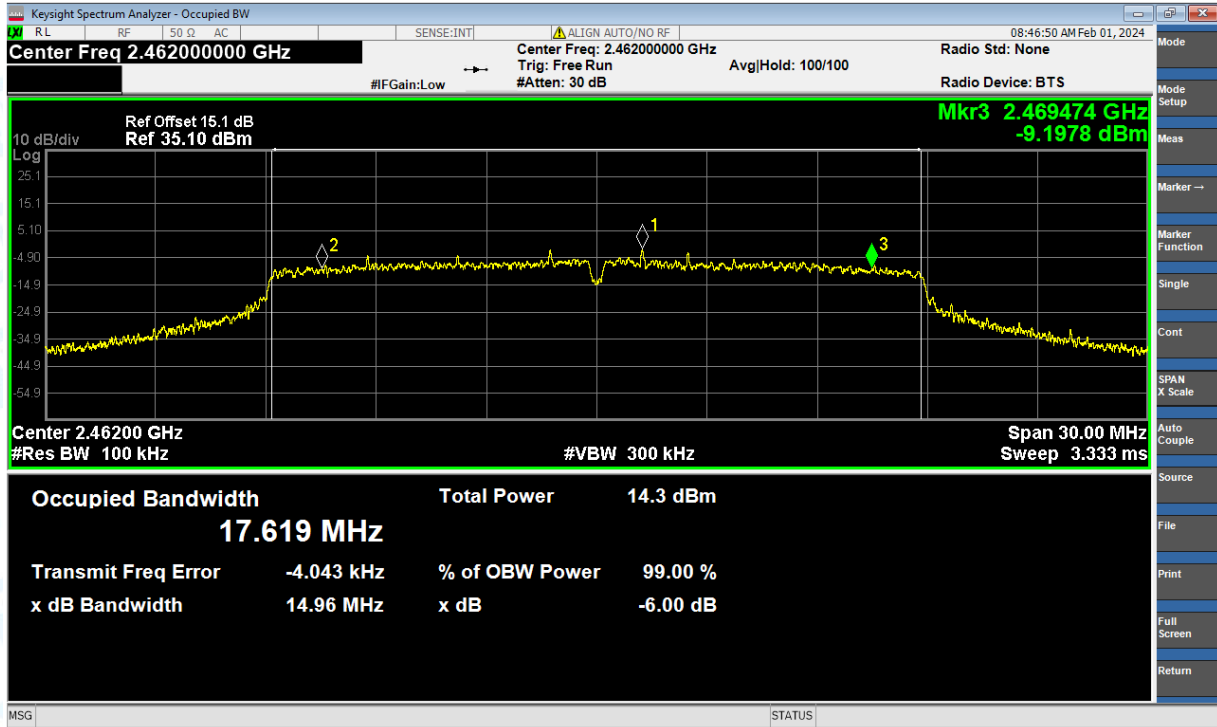
-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



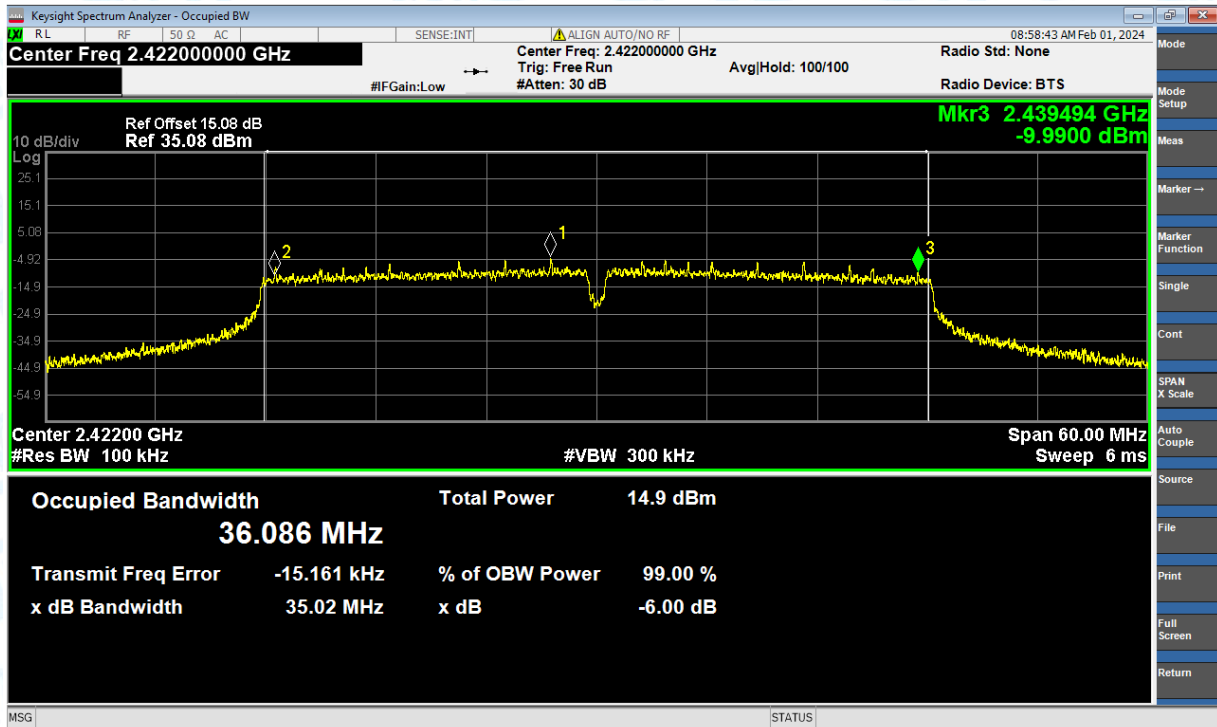
-6dB Bandwidth NVNT n(HT20) 2437MHz Ant1



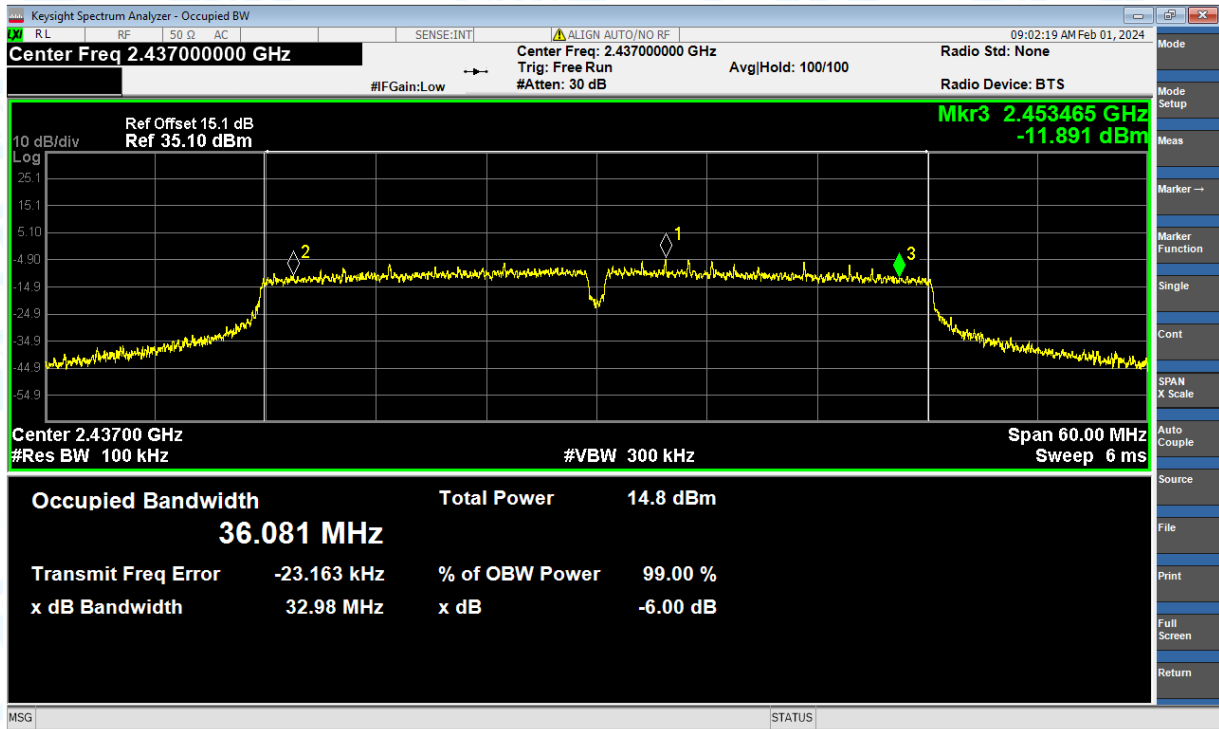
-6dB Bandwidth NVNT n(HT20) 2462MHz Ant1



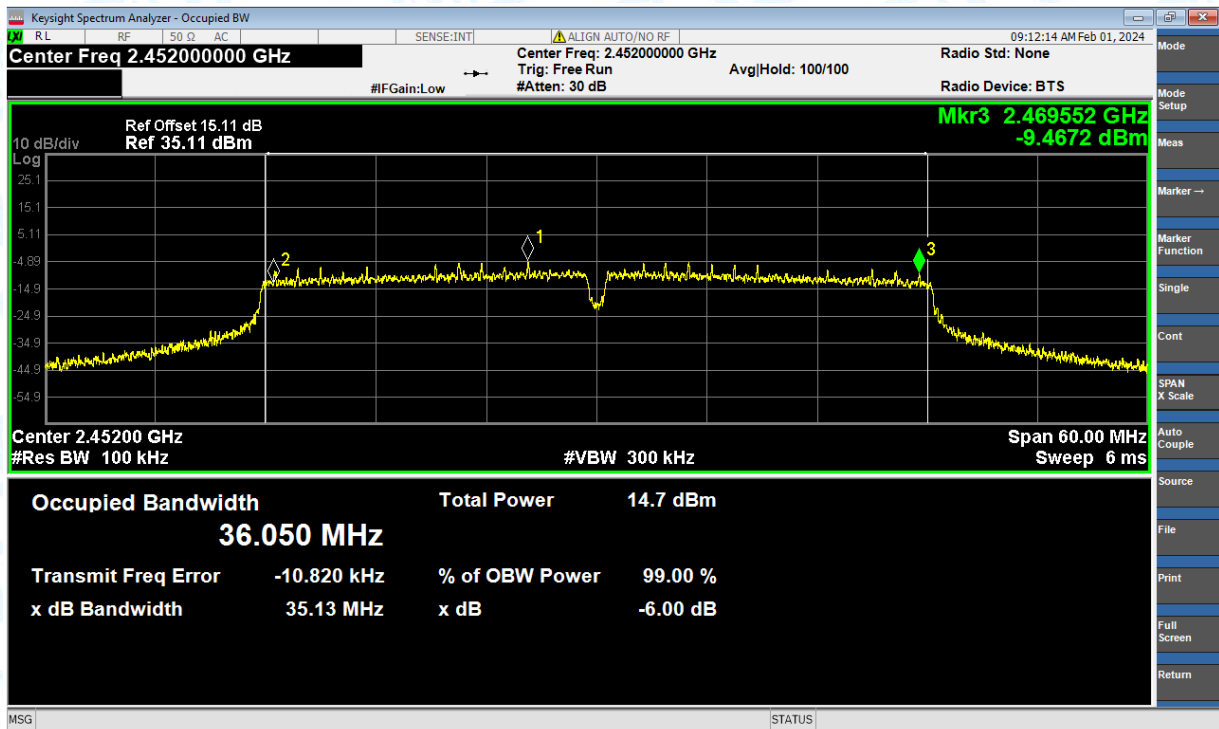
-6dB Bandwidth NVNT n(HT40) 2422MHz Ant1



-6dB Bandwidth NVNT n(HT40) 2437MHz Ant1



-6dB Bandwidth NVNT n(HT40) 2452MHz Ant1

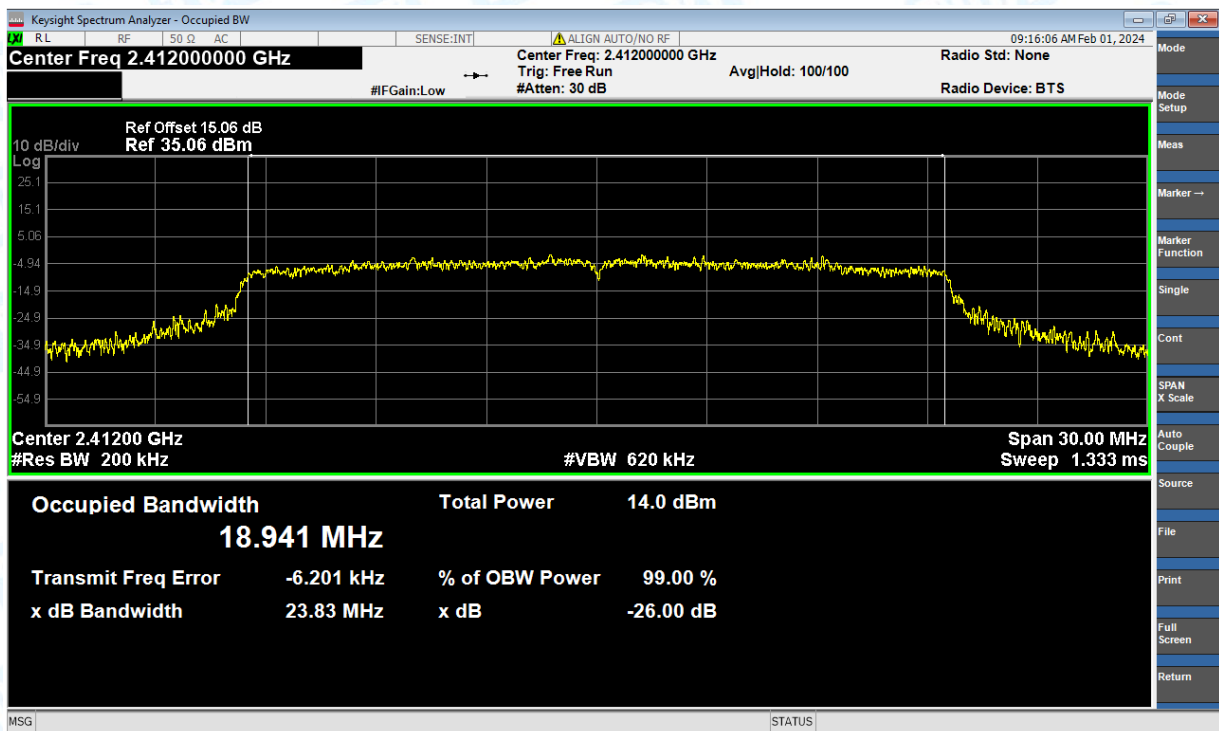


4. Occupied Channel Bandwidth

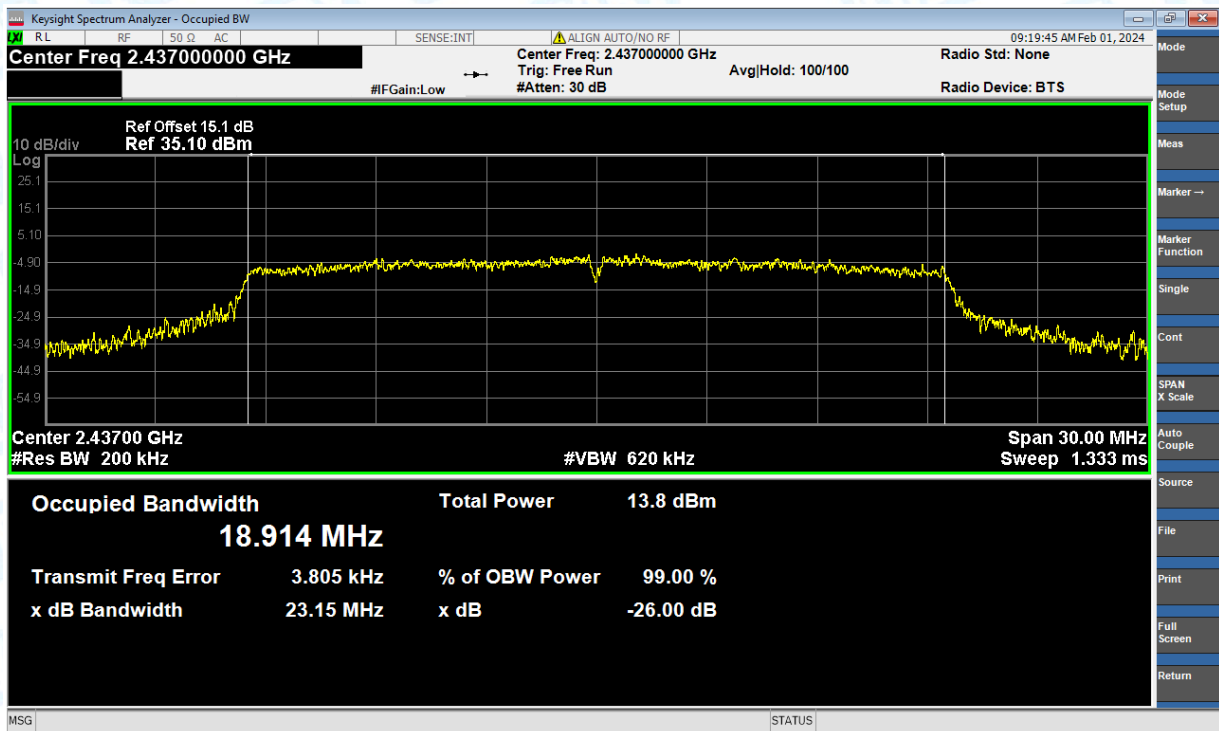
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	ax(HE20)	2412	Ant1	18.941
NVNT	ax(HE20)	2437	Ant1	18.914
NVNT	ax(HE20)	2462	Ant1	18.964
NVNT	ax(HE40)	2422	Ant1	37.831
NVNT	ax(HE40)	2437	Ant1	37.855
NVNT	ax(HE40)	2452	Ant1	37.778
NVNT	b	2412	Ant1	15.125
NVNT	b	2437	Ant1	15.126
NVNT	b	2462	Ant1	15.136
NVNT	g	2412	Ant1	16.504
NVNT	g	2437	Ant1	16.536
NVNT	g	2462	Ant1	16.557
NVNT	n(HT20)	2412	Ant1	17.697
NVNT	n(HT20)	2437	Ant1	17.728
NVNT	n(HT20)	2462	Ant1	17.759
NVNT	n(HT40)	2422	Ant1	36.356
NVNT	n(HT40)	2437	Ant1	36.358
NVNT	n(HT40)	2452	Ant1	36.336

Test Graphs

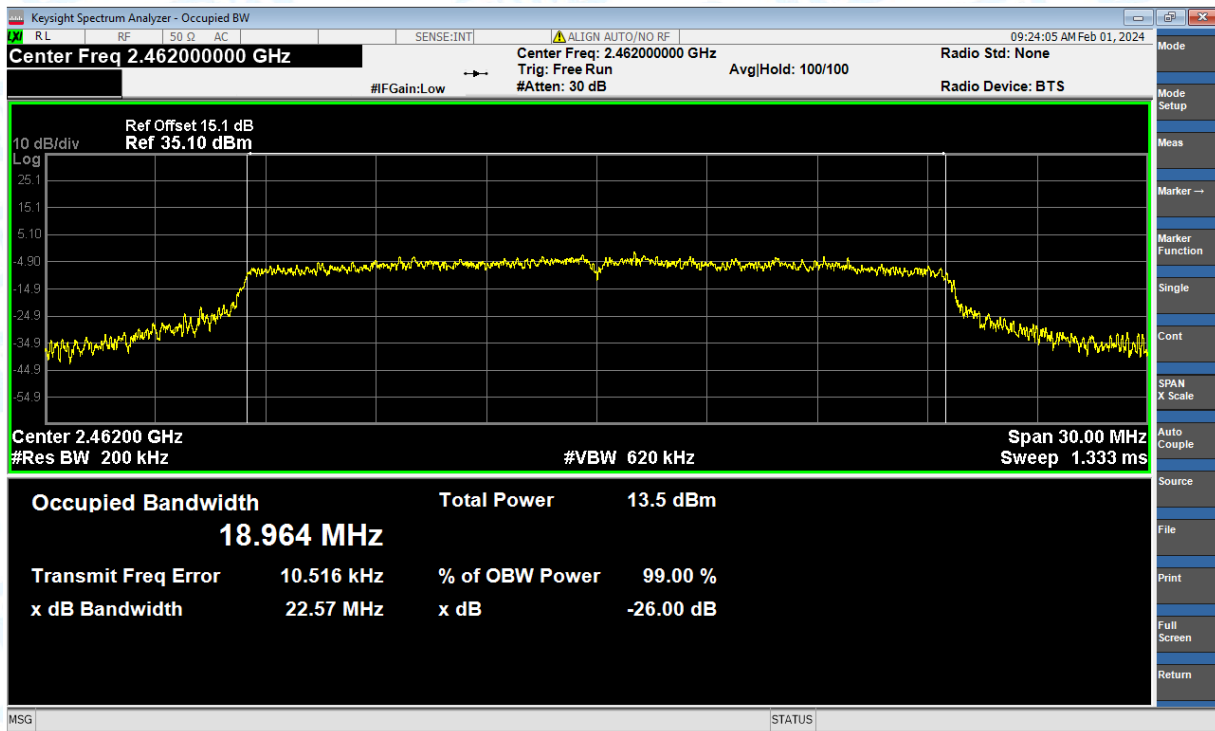
OBW NVNT ax(HE20) 2412MHz Ant1



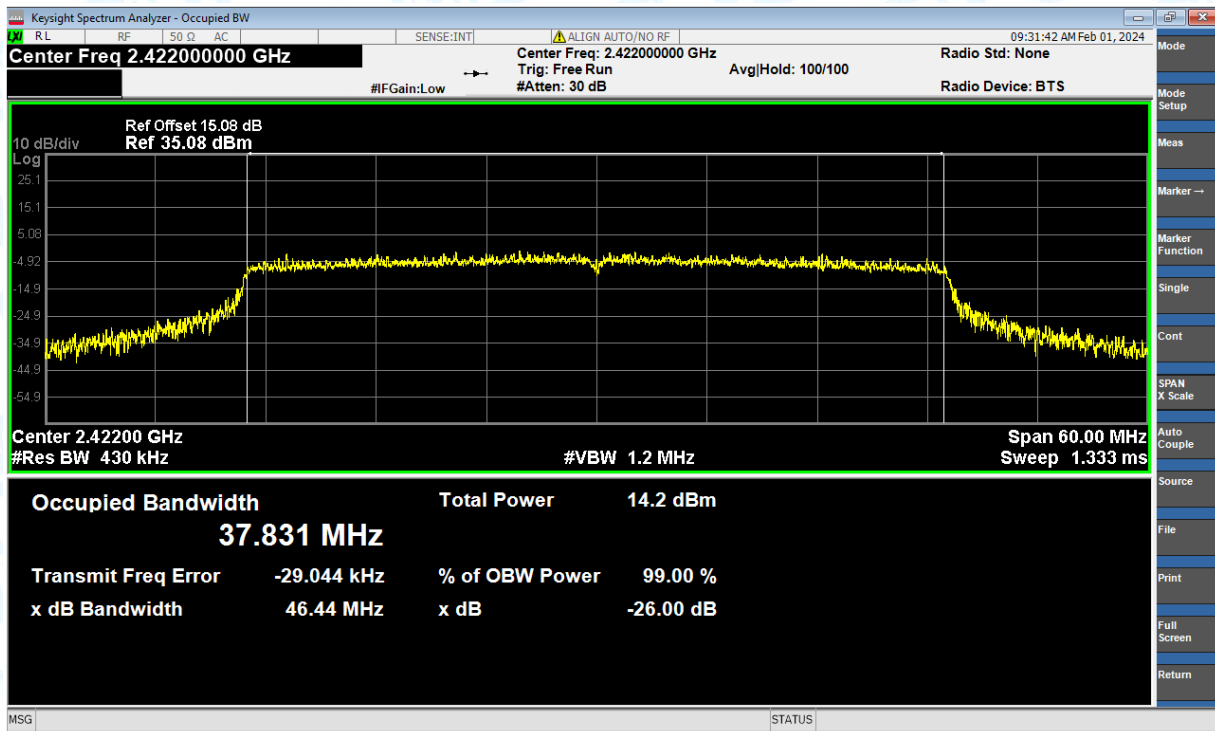
OBW NVNT ax(HE20) 2437MHz Ant1



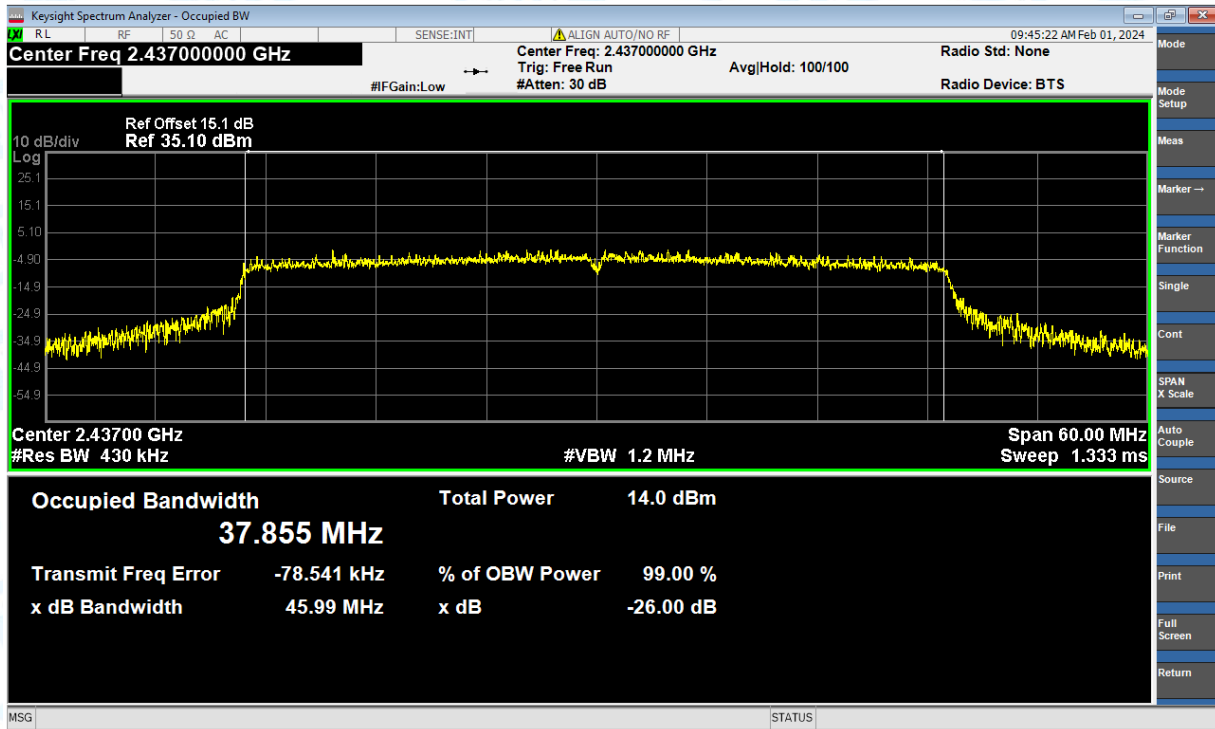
OBW NVNT ax(HE20) 2462MHz Ant1



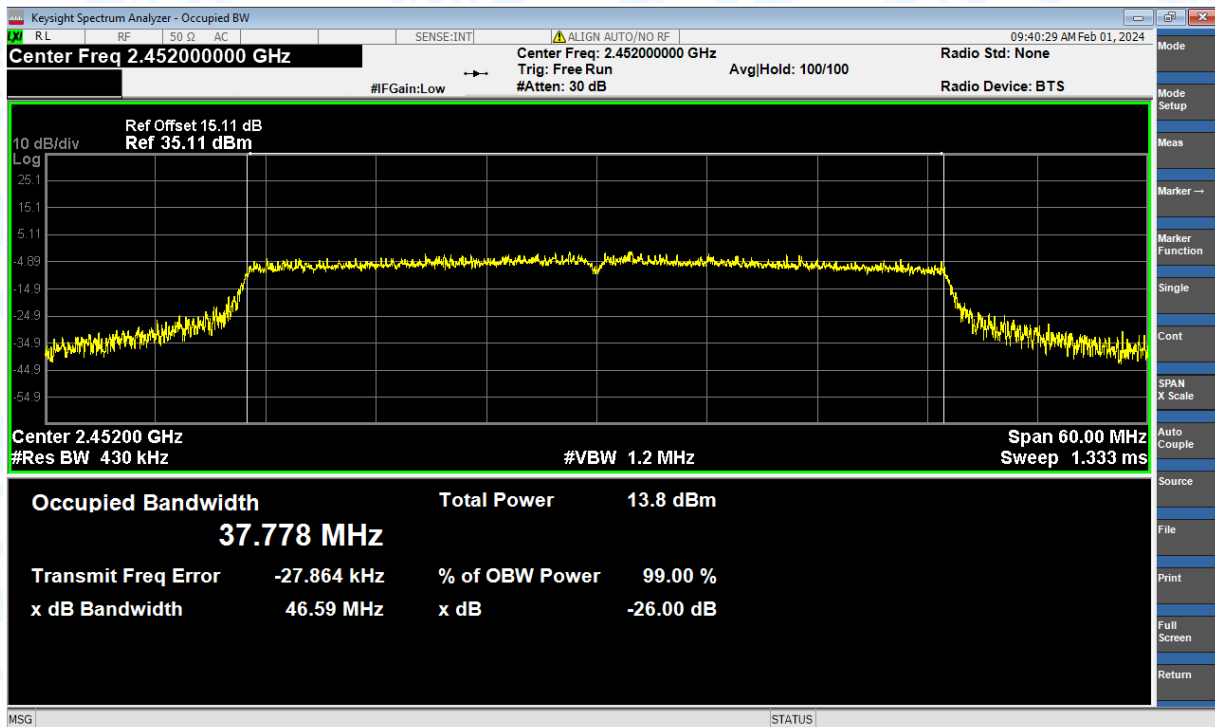
OBW NVNT ax(HE40) 2422MHz Ant1



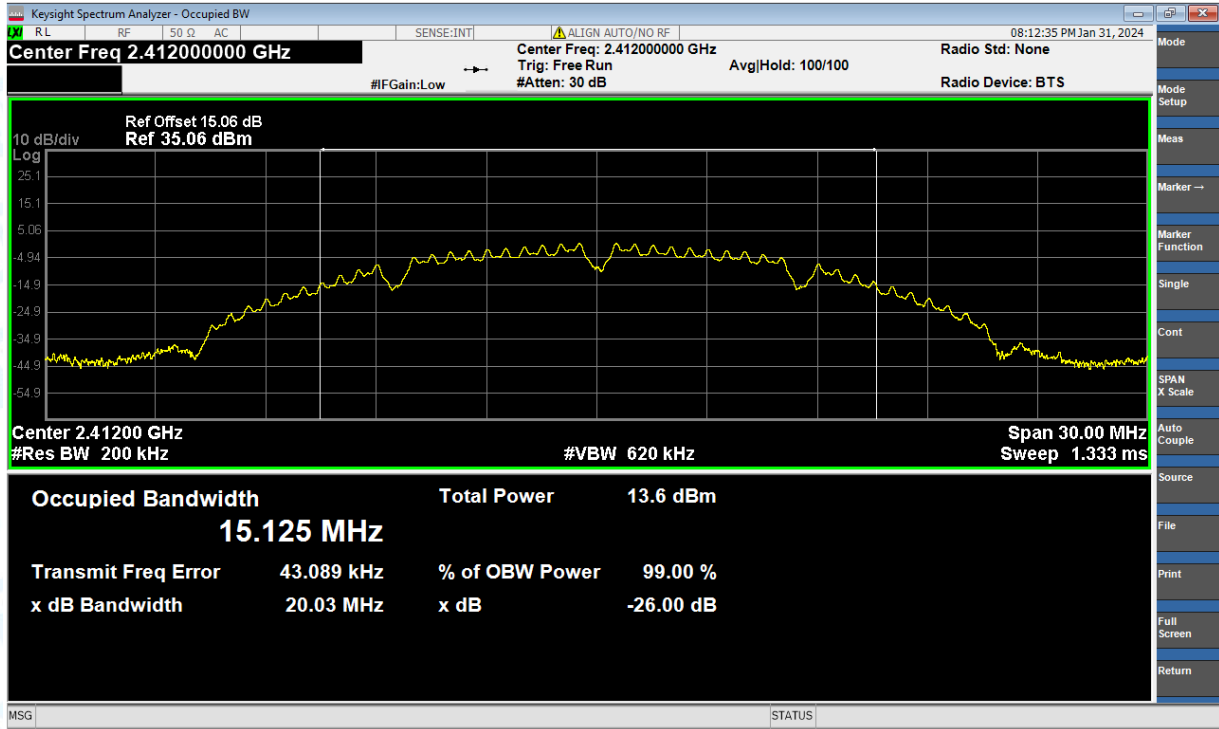
OBW NVNT ax(HE40) 2437MHz Ant1



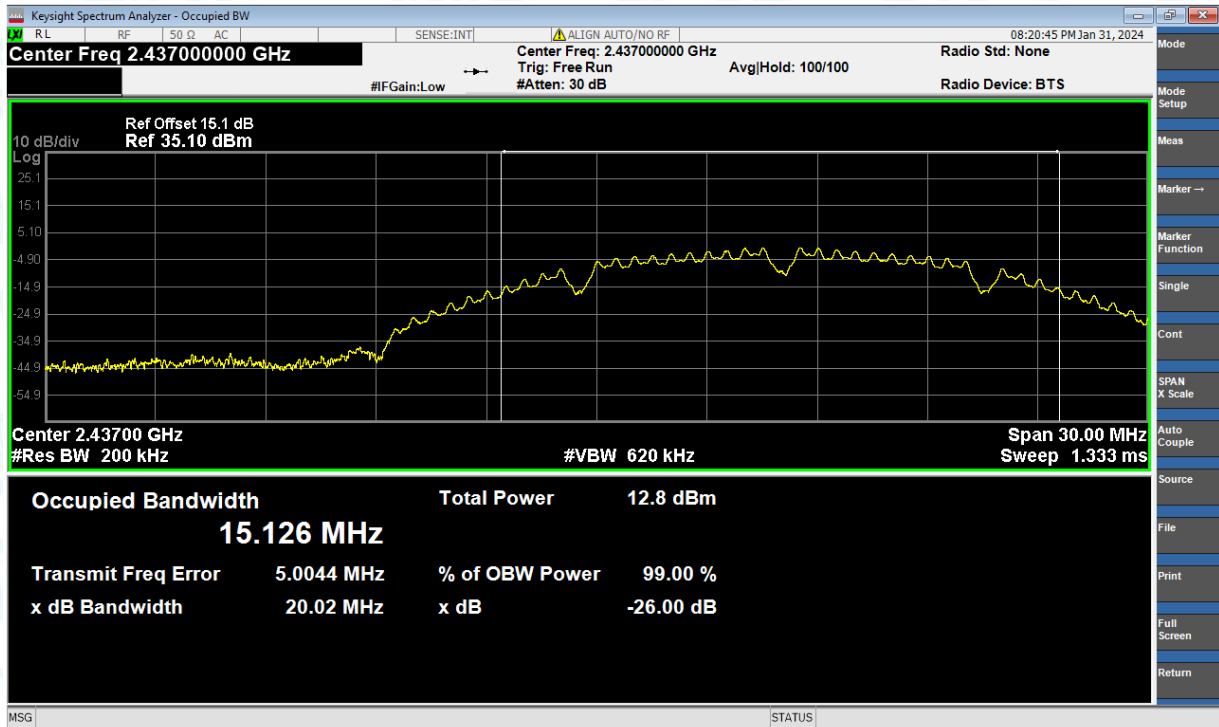
OBW NVNT ax(HE40) 2452MHz Ant1



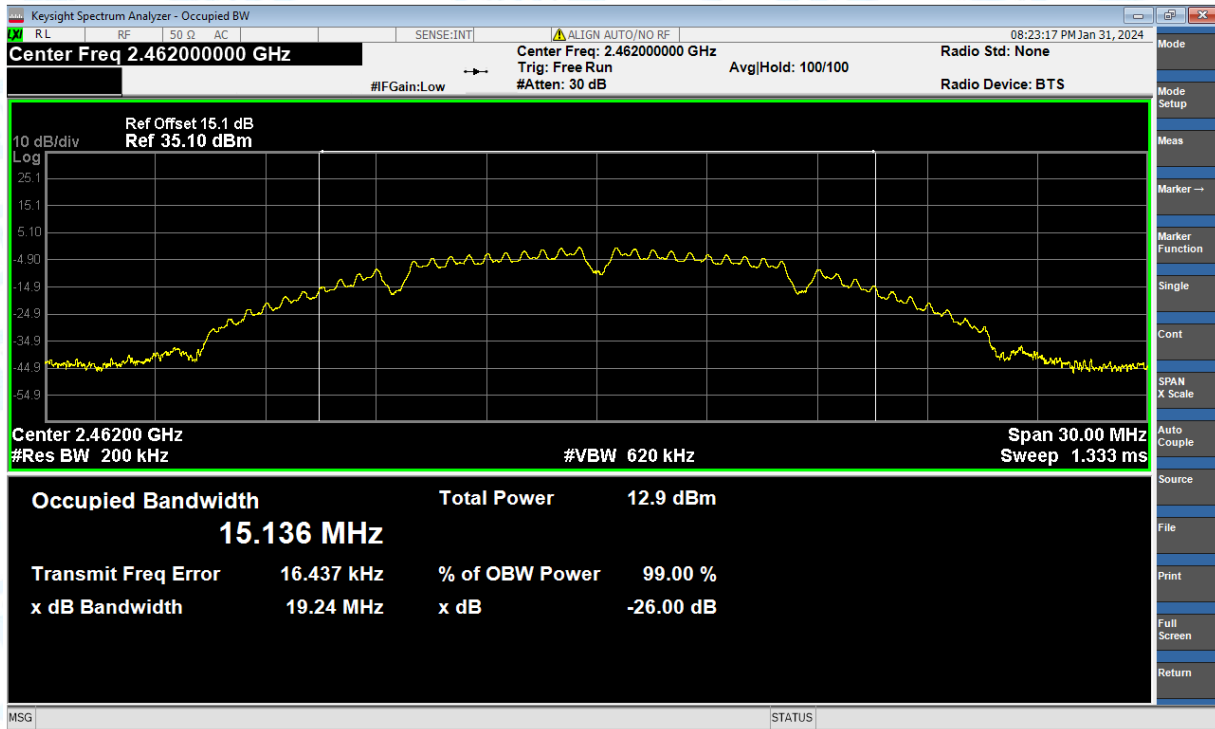
OBW NVNT b 2412MHz Ant1



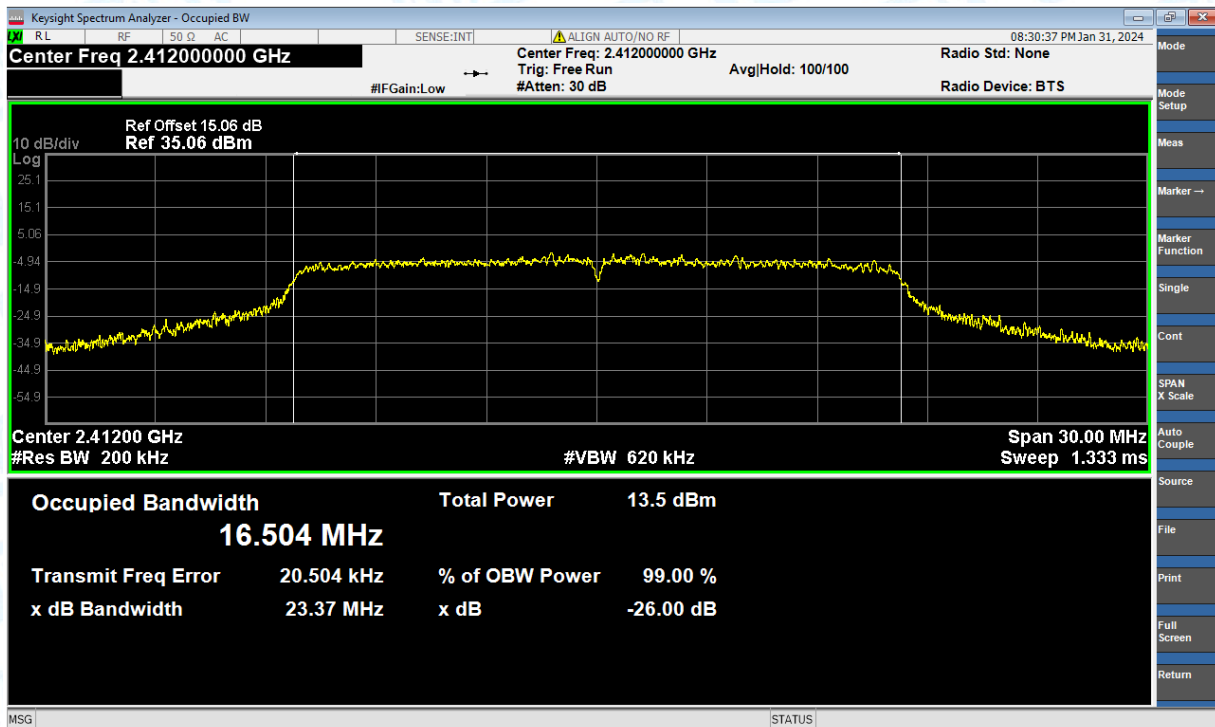
OBW NVNT b 2437MHz Ant1



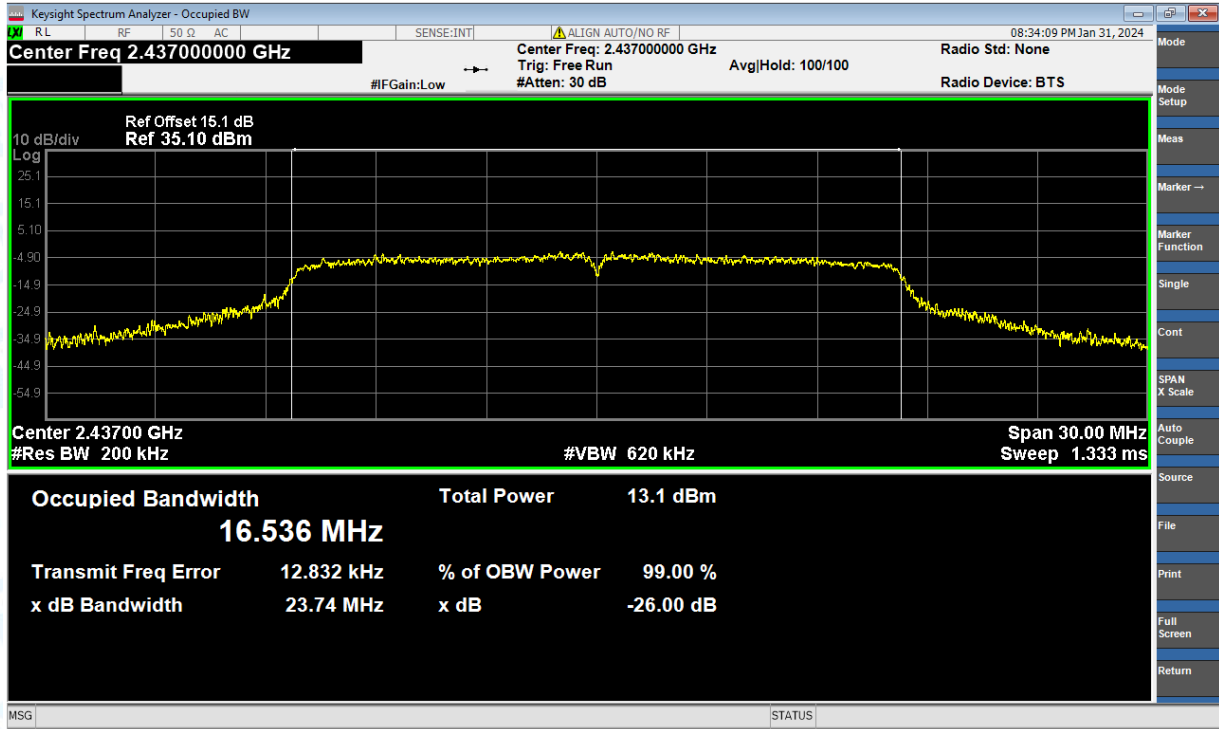
OBW NVNT b 2462MHz Ant1



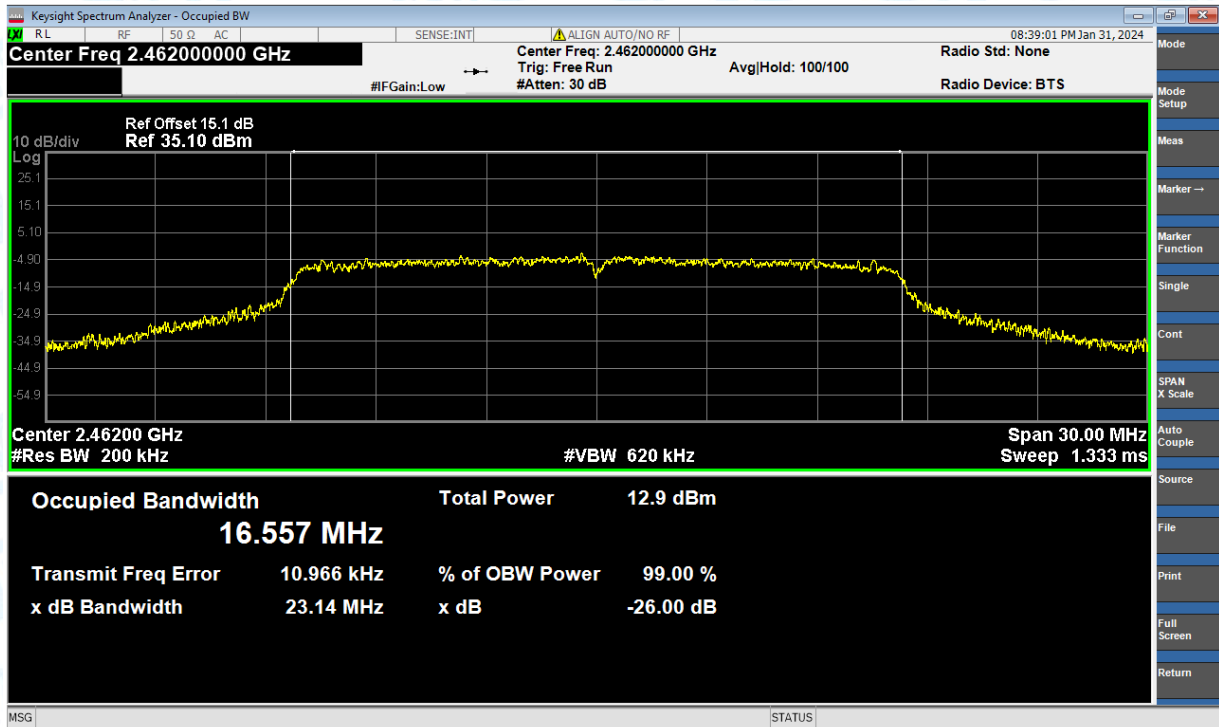
OBW NVNT g 2412MHz Ant1



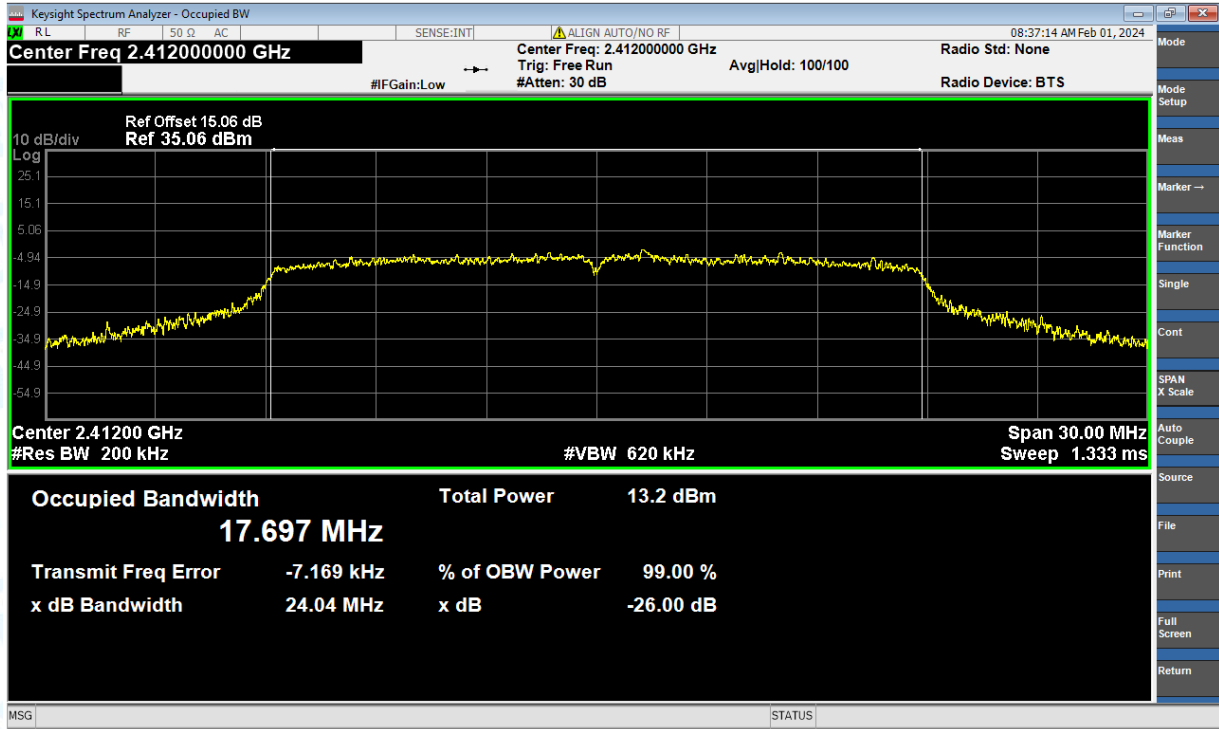
OBW NVNT g 2437MHz Ant1



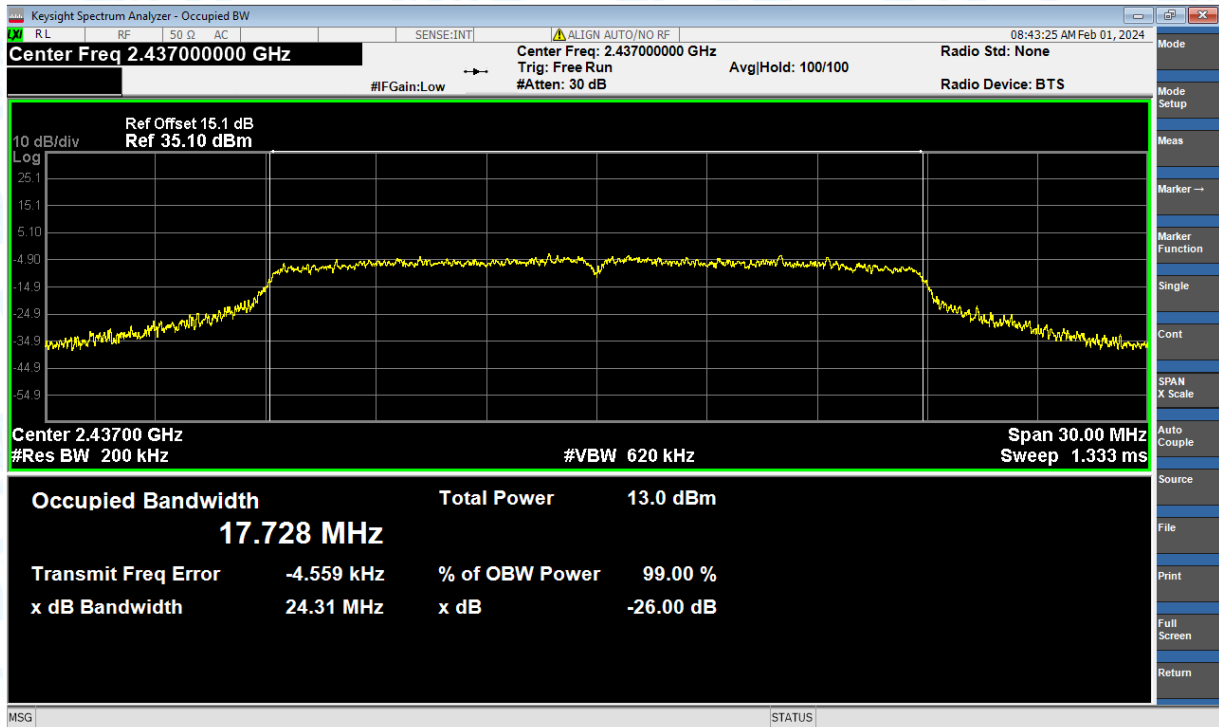
OBW NVNT g 2462MHz Ant1



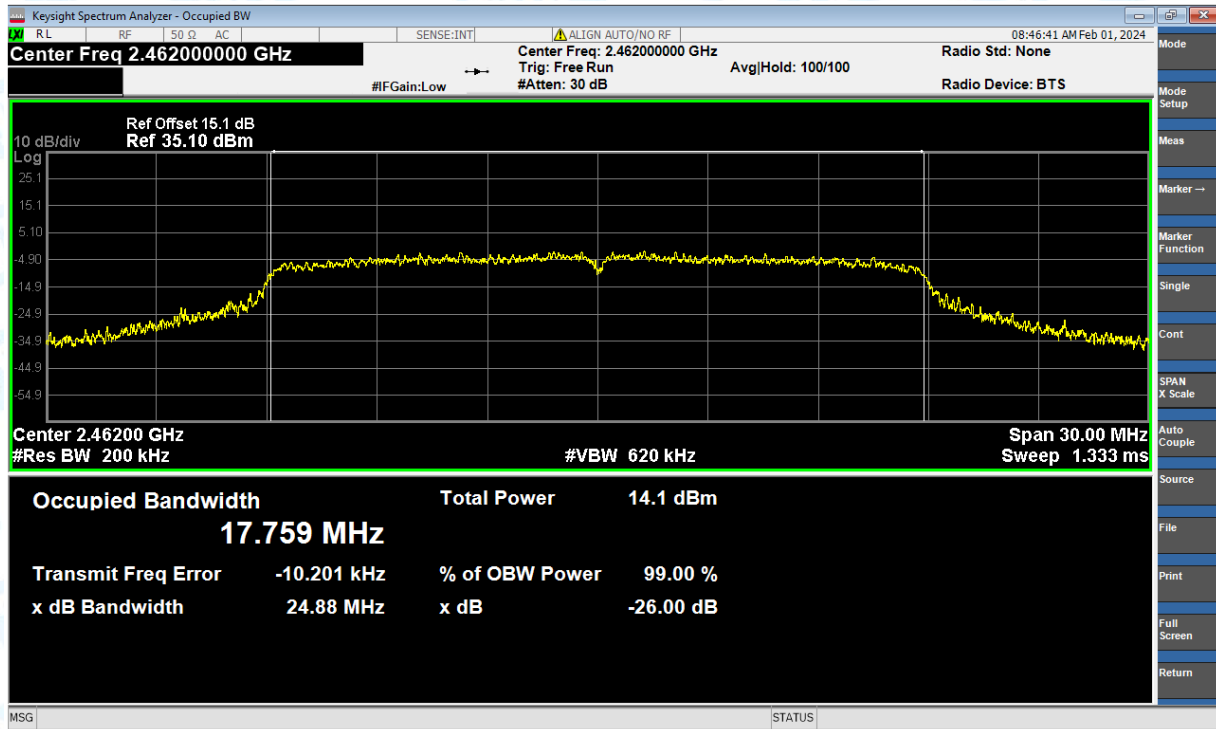
OBW NVNT n(HT20) 2412MHz Ant1



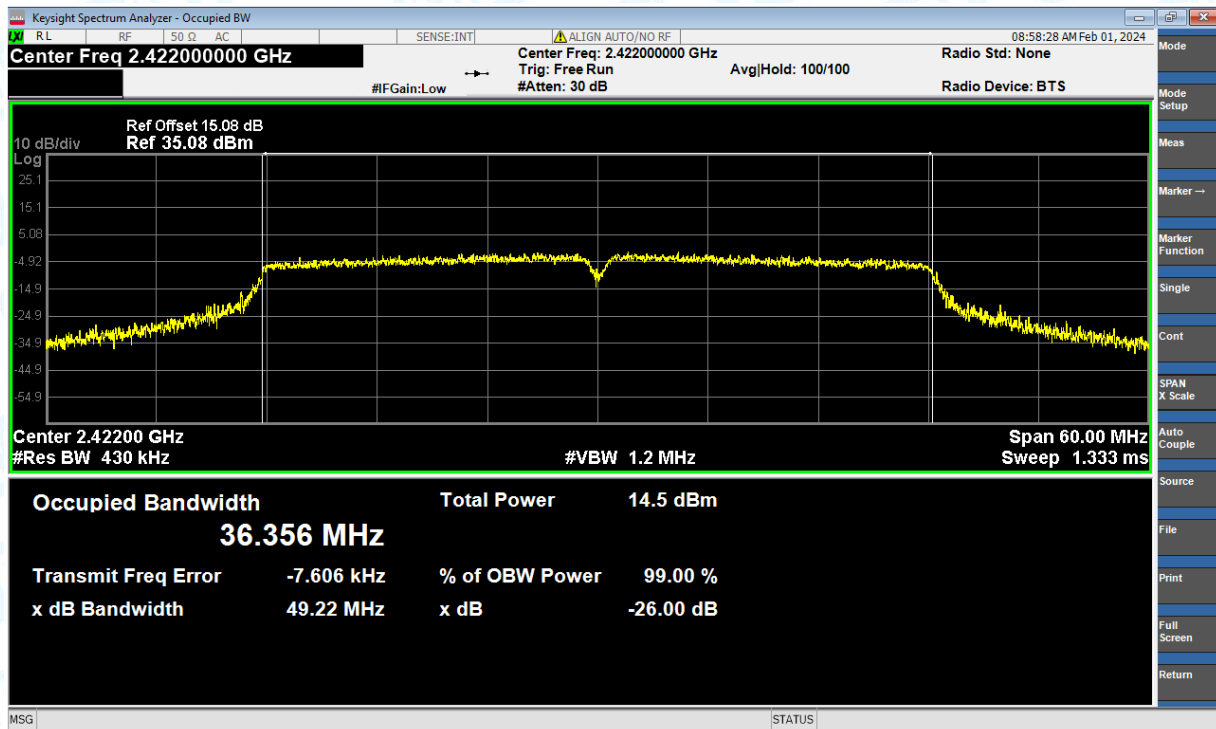
OBW NVNT n(HT20) 2437MHz Ant1



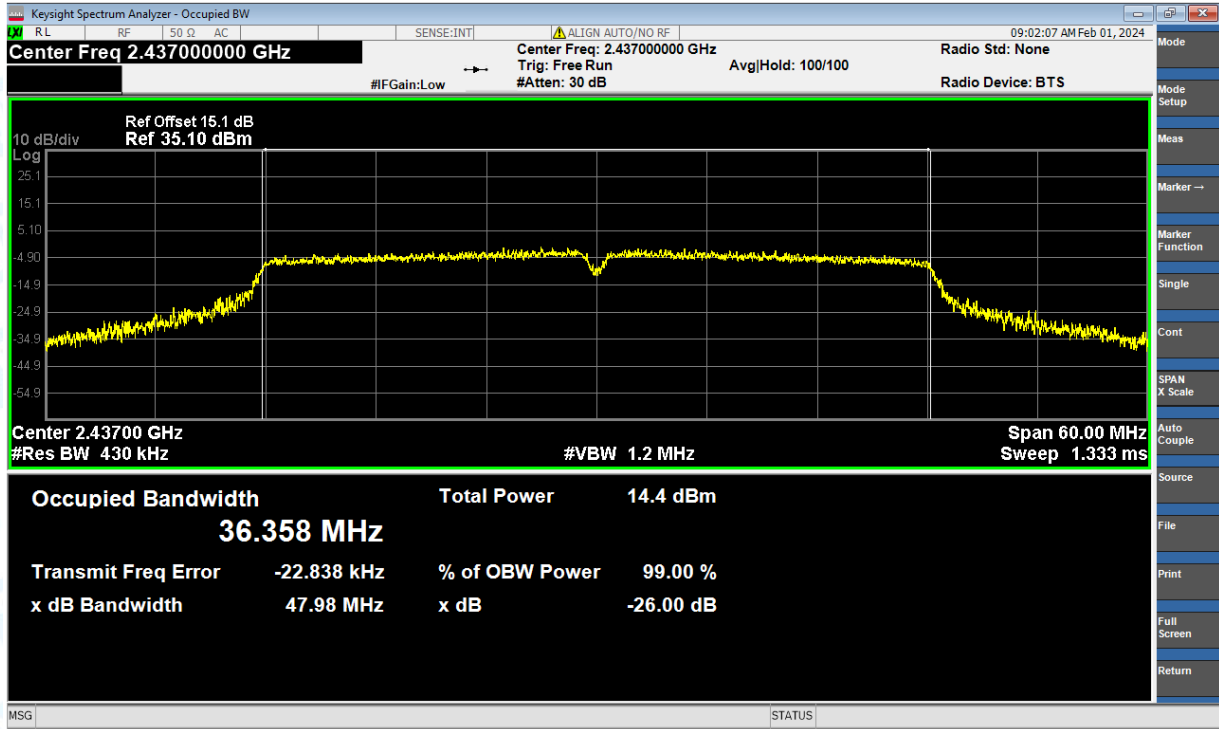
OBW NVNT n(HT20) 2462MHz Ant1



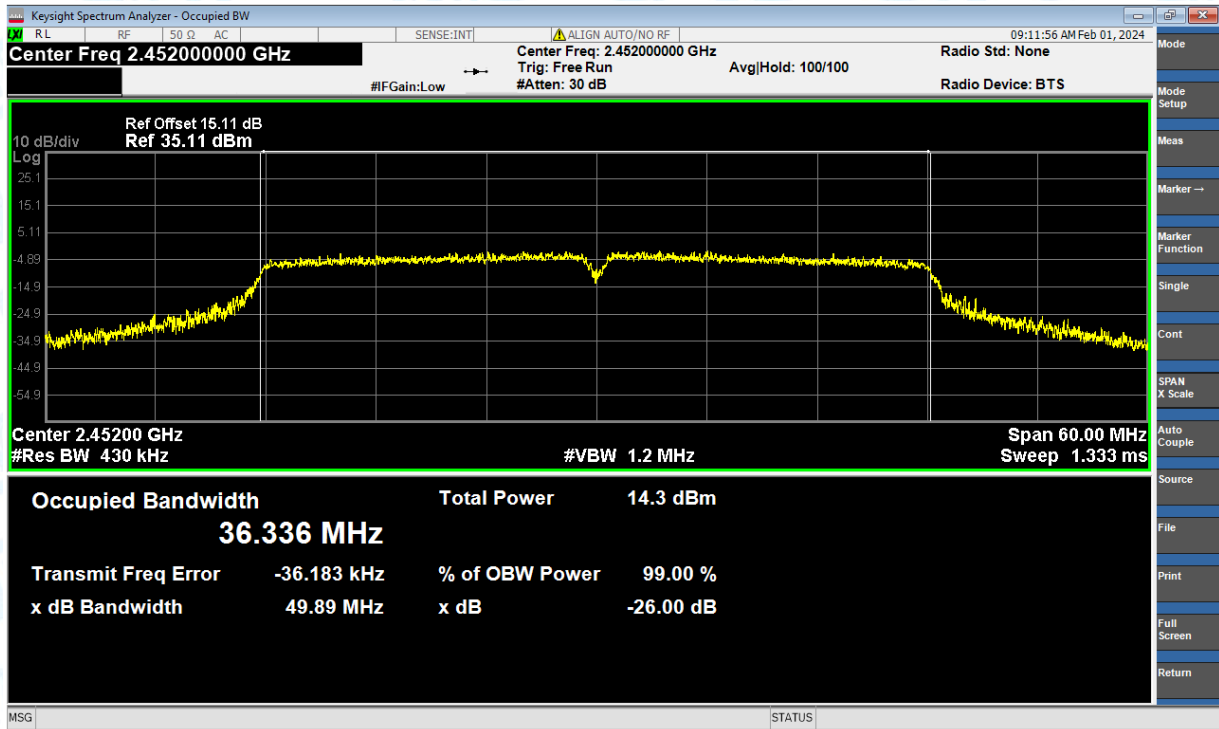
OBW NVNT n(HT40) 2422MHz Ant1



OBW NVNT n(HT40) 2437MHz Ant1



OBW NVNT n(HT40) 2452MHz Ant1

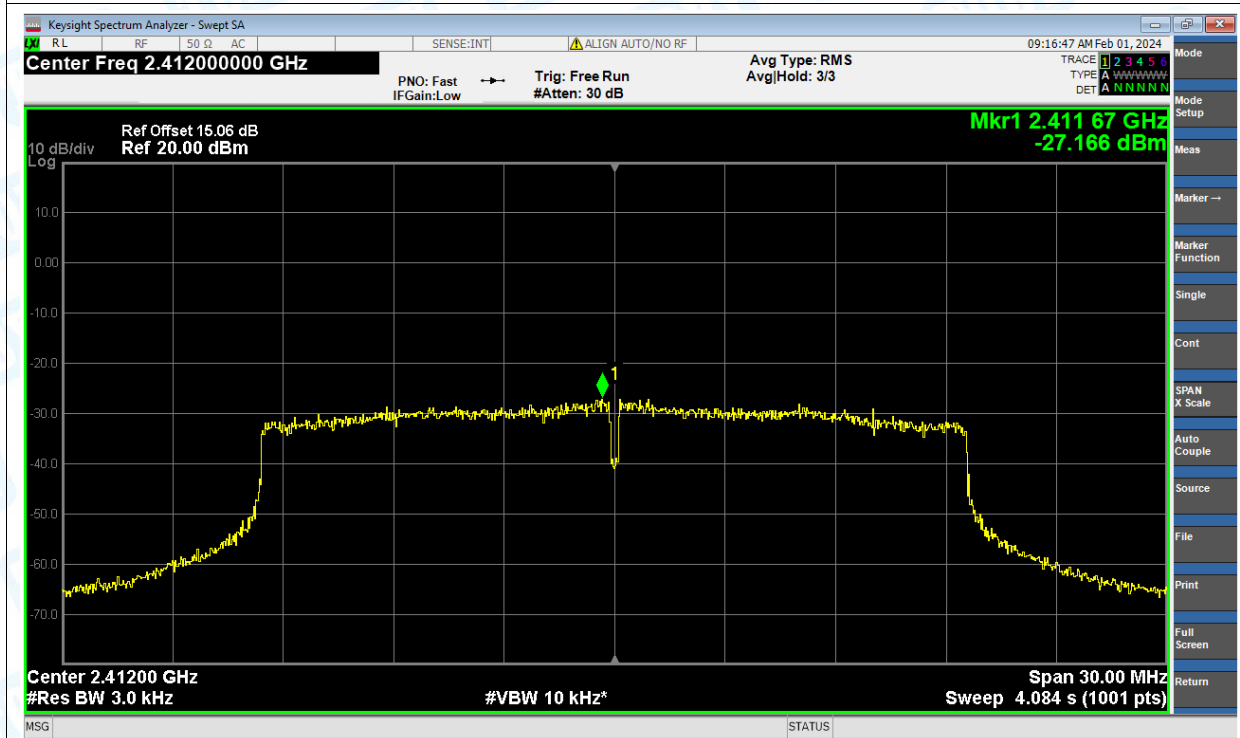


5. Maximum Power Spectral Density Level

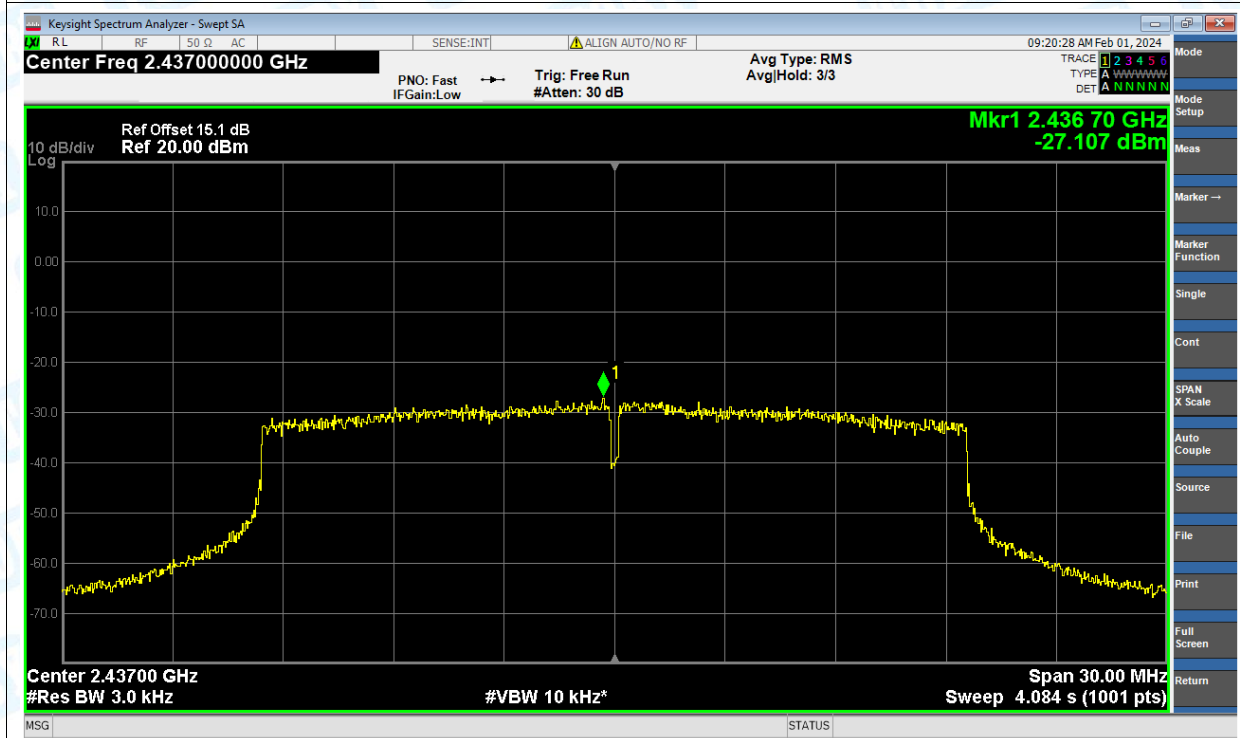
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	ax(HE20)	2412	Ant1	-27.166	8	Pass
NVNT	ax(HE20)	2437	Ant1	-27.107	8	Pass
NVNT	ax(HE20)	2462	Ant1	-27.281	8	Pass
NVNT	ax(HE40)	2422	Ant1	-31.079	8	Pass
NVNT	ax(HE40)	2437	Ant1	-31.69	8	Pass
NVNT	ax(HE40)	2452	Ant1	-31.878	8	Pass
NVNT	b	2412	Ant1	-23.07	8	Pass
NVNT	b	2437	Ant1	-23.691	8	Pass
NVNT	b	2462	Ant1	-23.778	8	Pass
NVNT	g	2412	Ant1	-25.721	8	Pass
NVNT	g	2437	Ant1	-26.046	8	Pass
NVNT	g	2462	Ant1	-26.178	8	Pass
NVNT	n(HT20)	2412	Ant1	-26.047	8	Pass
NVNT	n(HT20)	2437	Ant1	-25.904	8	Pass
NVNT	n(HT20)	2462	Ant1	-25.163	8	Pass
NVNT	n(HT40)	2422	Ant1	-30.223	8	Pass
NVNT	n(HT40)	2437	Ant1	-30.257	8	Pass
NVNT	n(HT40)	2452	Ant1	-30.064	8	Pass

Test Graphs

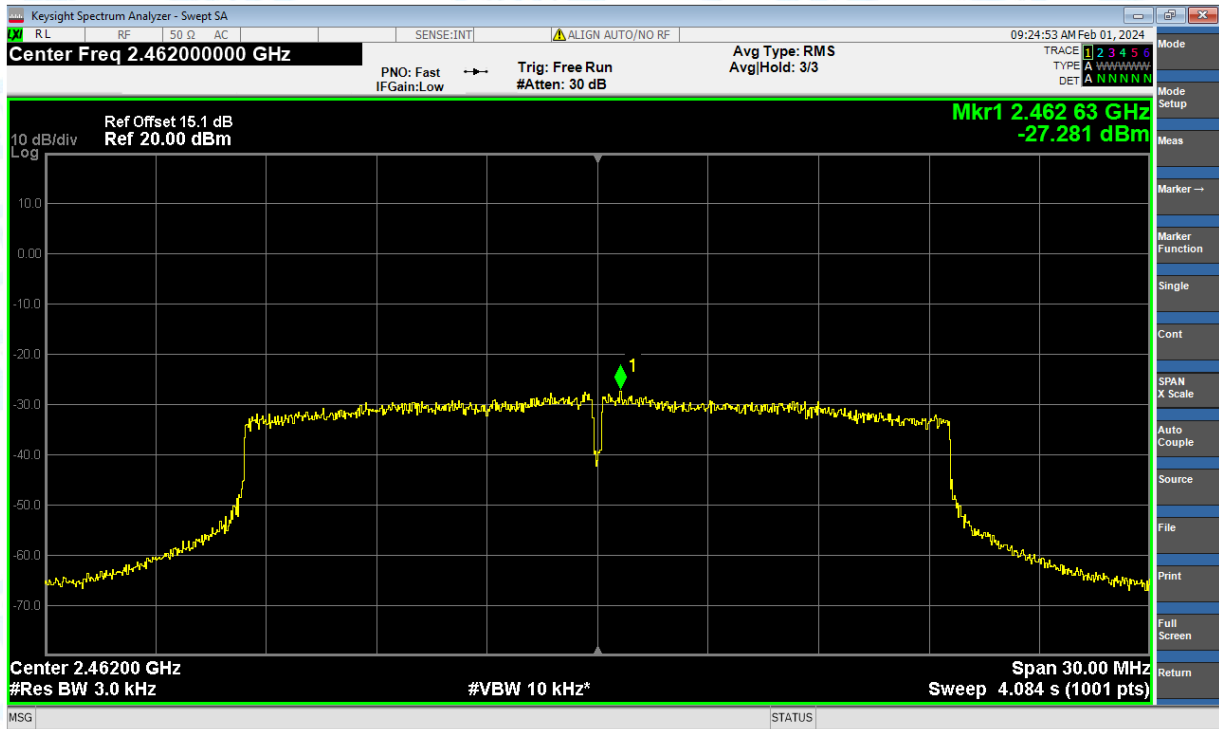
PSD NVNT ax(HE20) 2412MHz Ant1



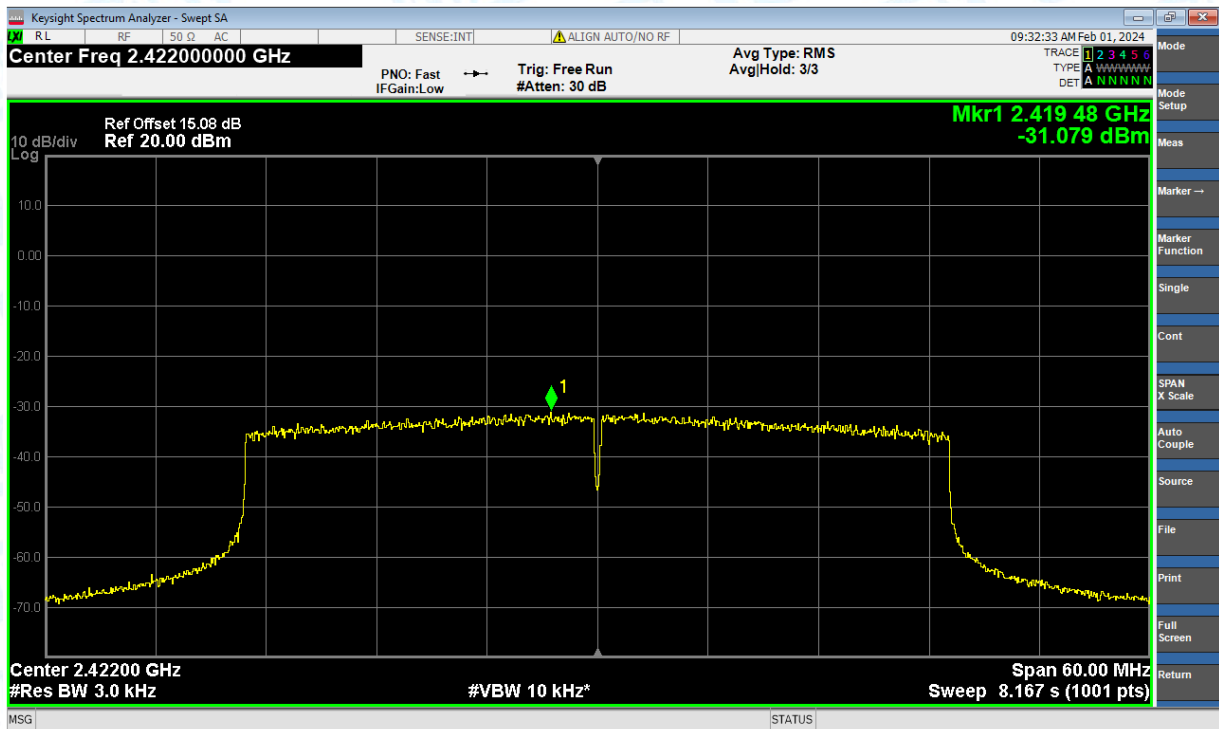
PSD NVNT ax(HE20) 2437MHz Ant1



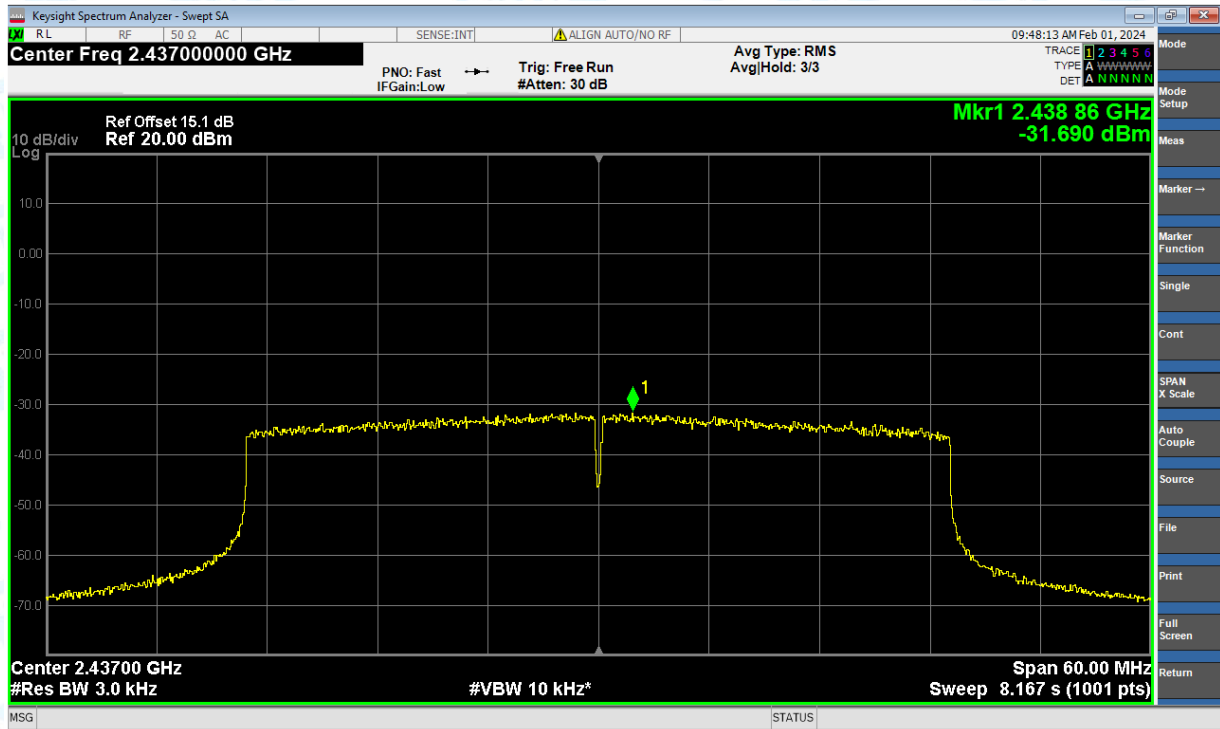
PSD NVNT ax(HE20) 2462MHz Ant1



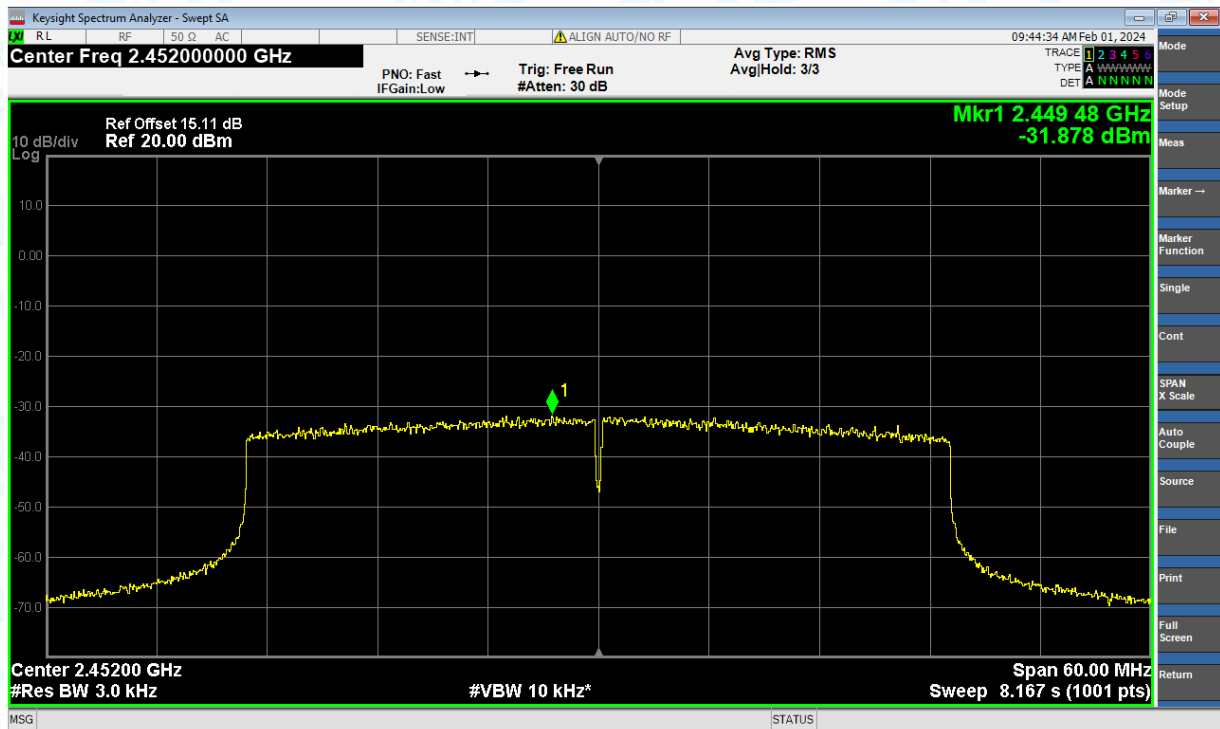
PSD NVNT ax(HE40) 2422MHz Ant1



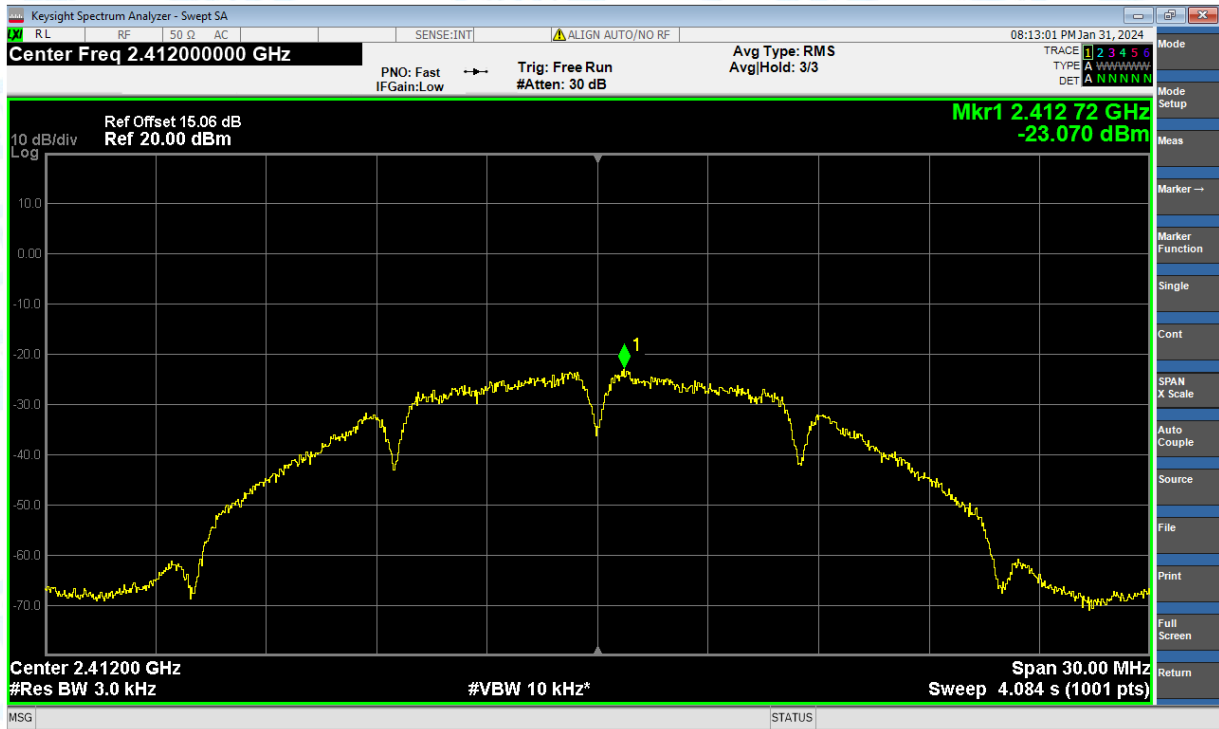
PSD NVNT ax(HE40) 2437MHz Ant1



PSD NVNT ax(HE40) 2452MHz Ant1



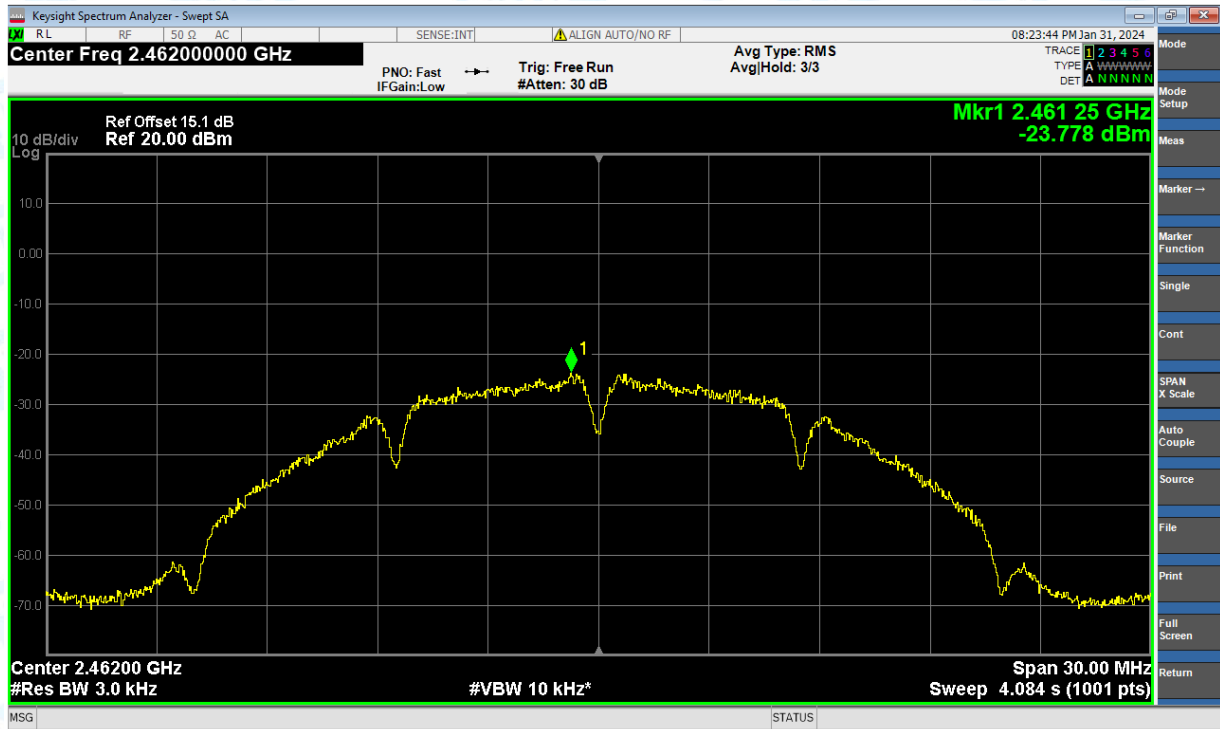
PSD NVNT b 2412MHz Ant1



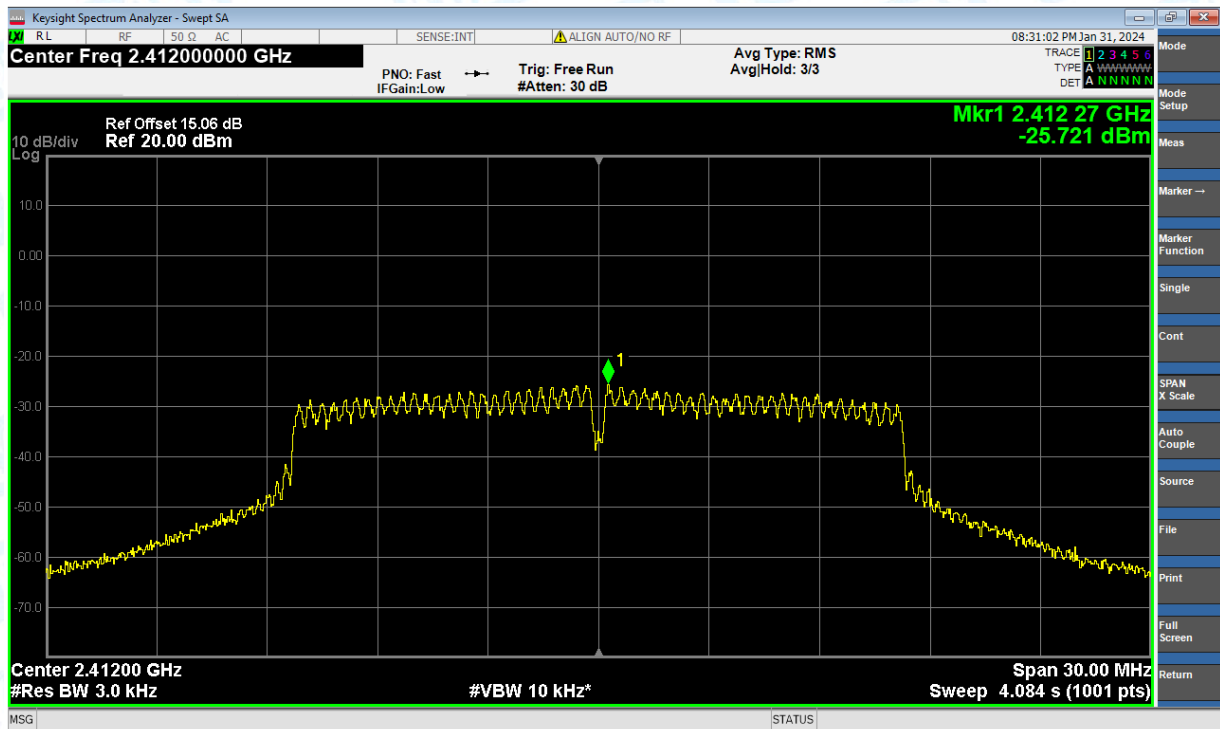
PSD NVNT b 2437MHz Ant1



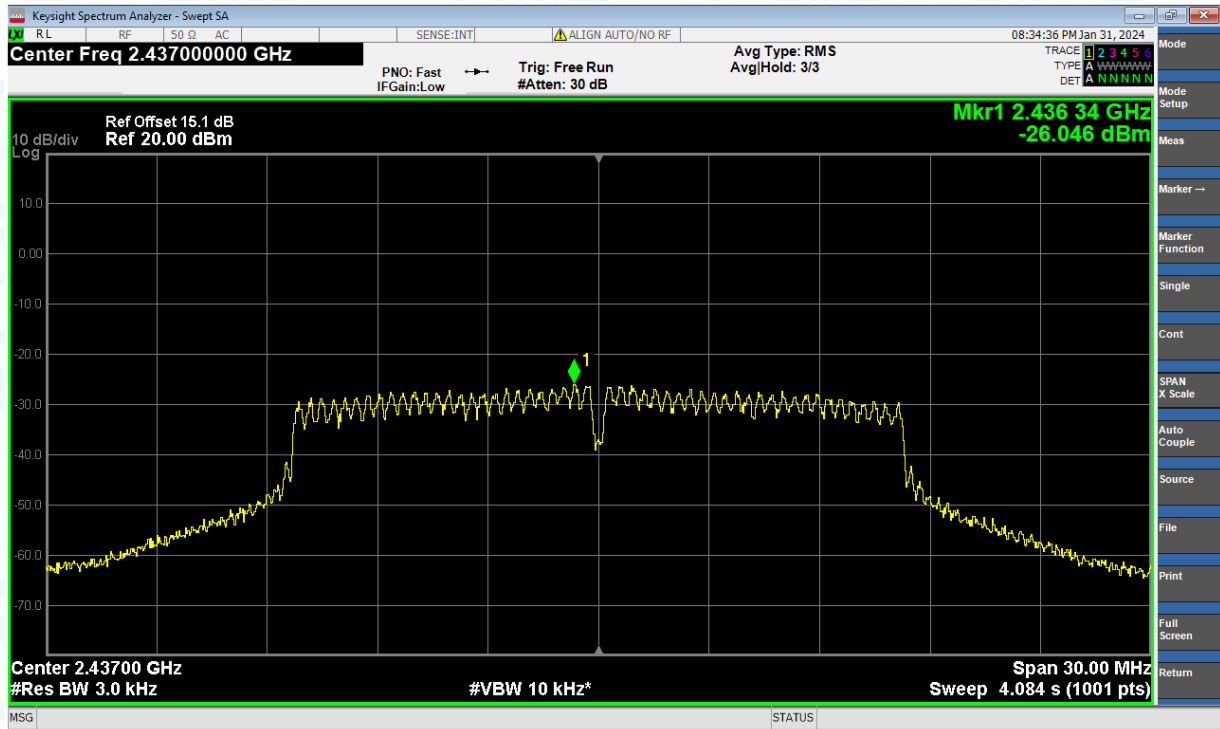
PSD NVNT b 2462MHz Ant1



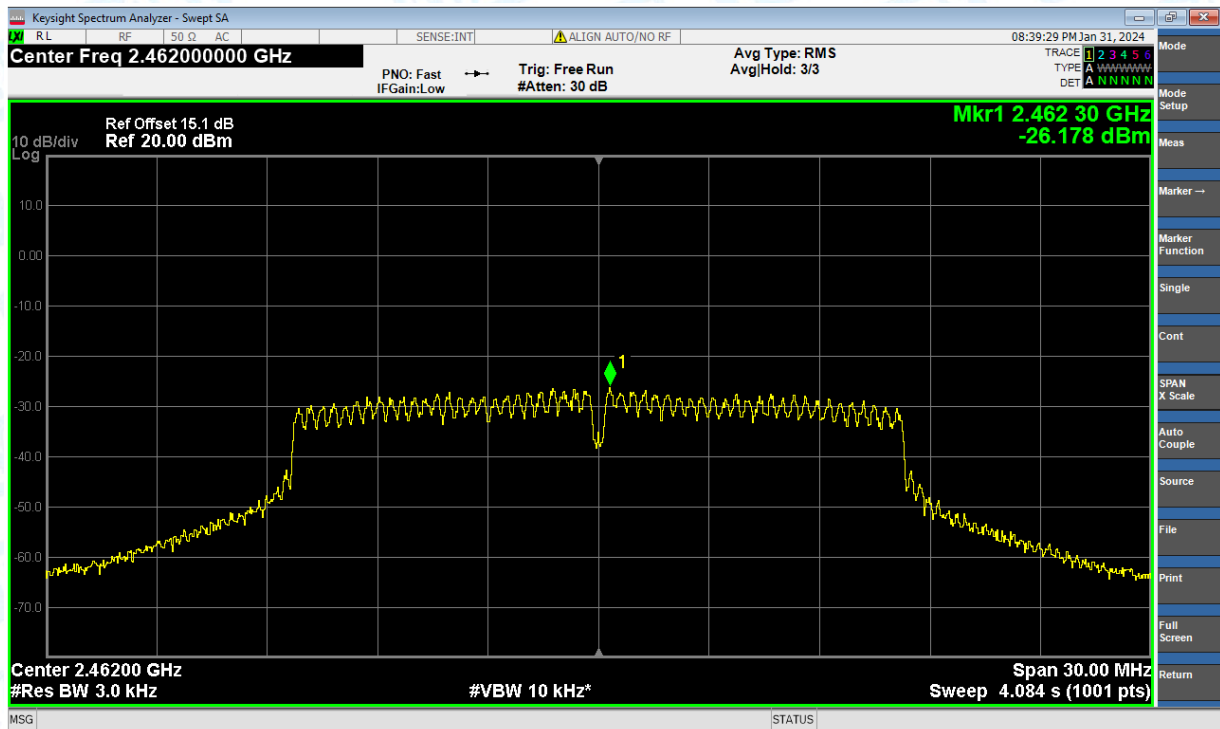
PSD NVNT g 2412MHz Ant1



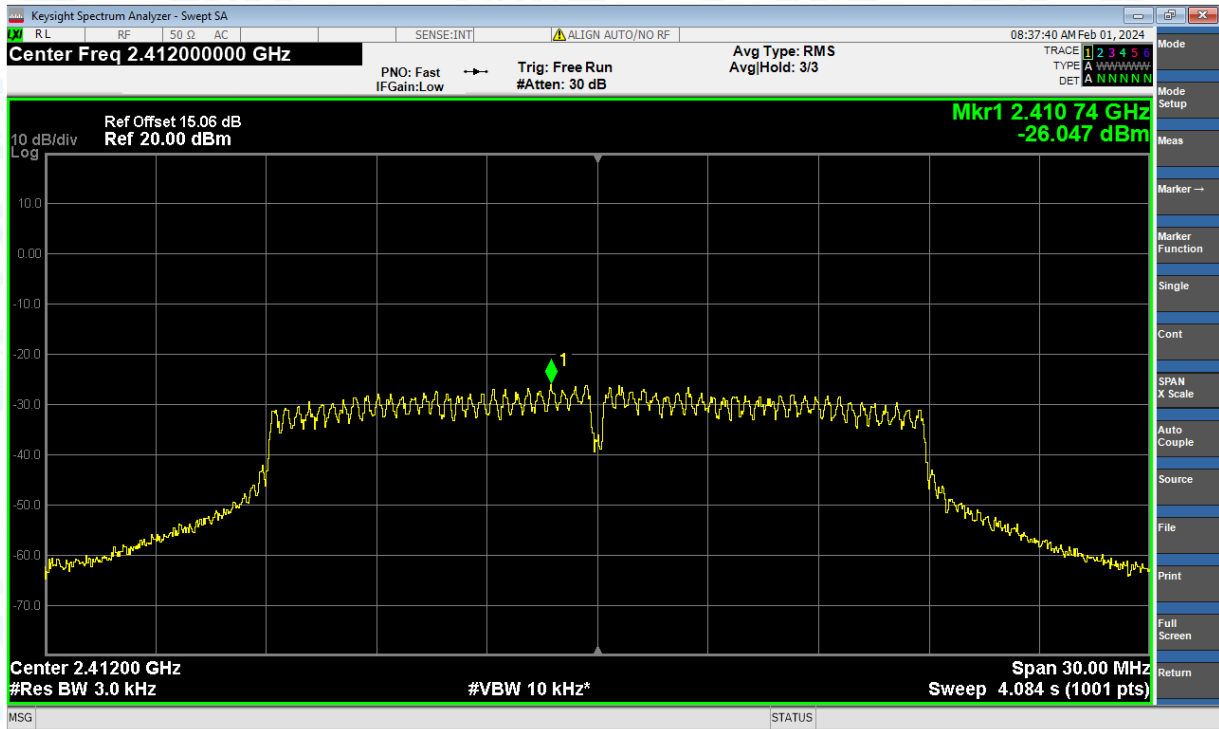
PSD NVNT g 2437MHz Ant1



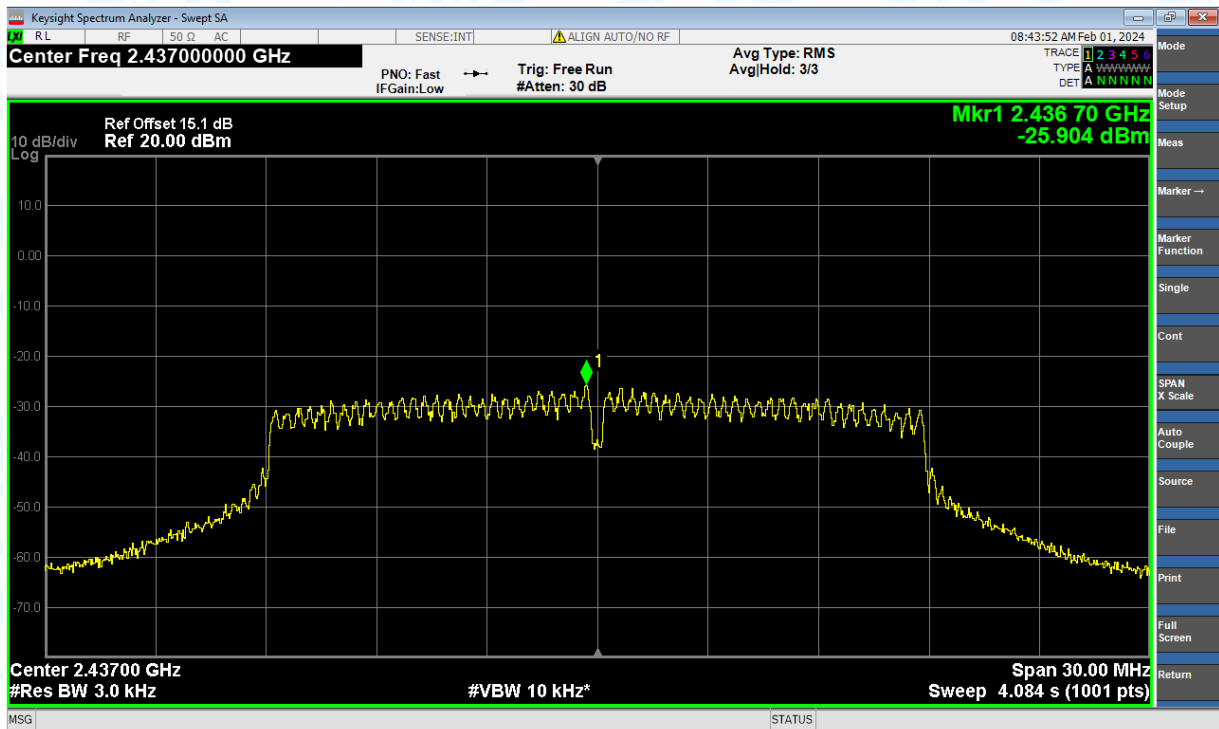
PSD NVNT g 2462MHz Ant1



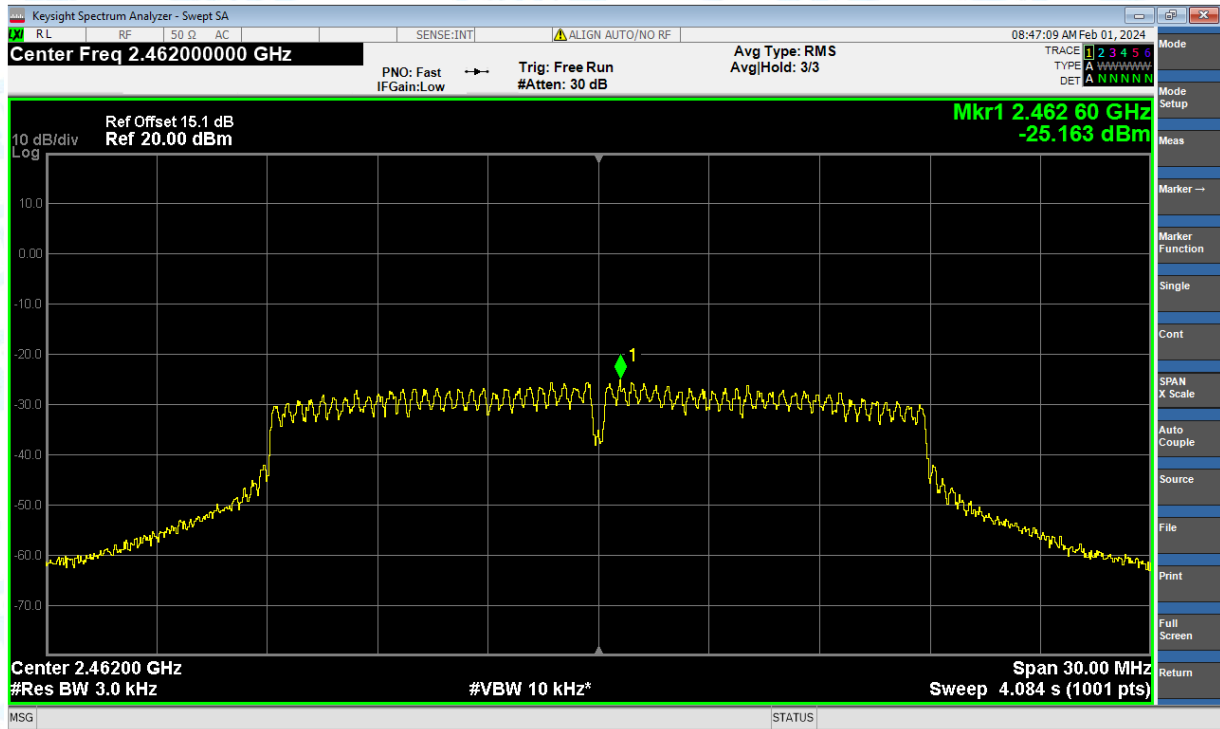
PSD NVNT n(HT20) 2412MHz Ant1



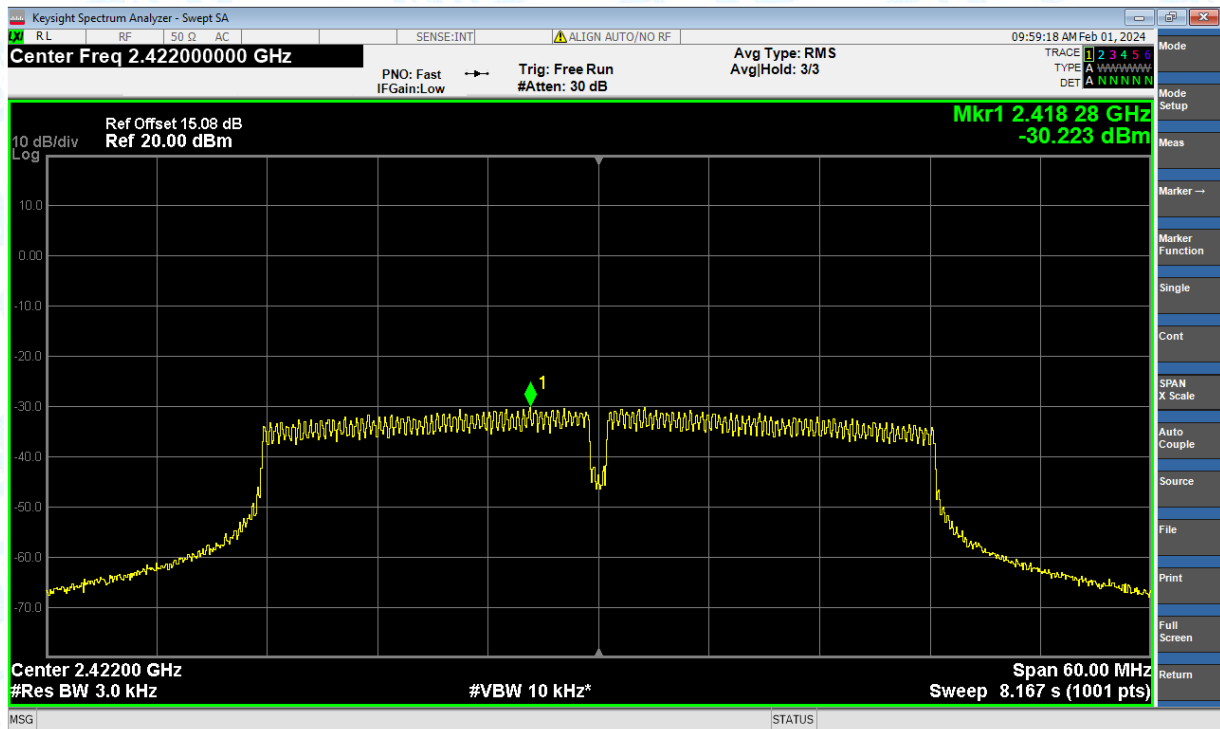
PSD NVNT n(HT20) 2437MHz Ant1



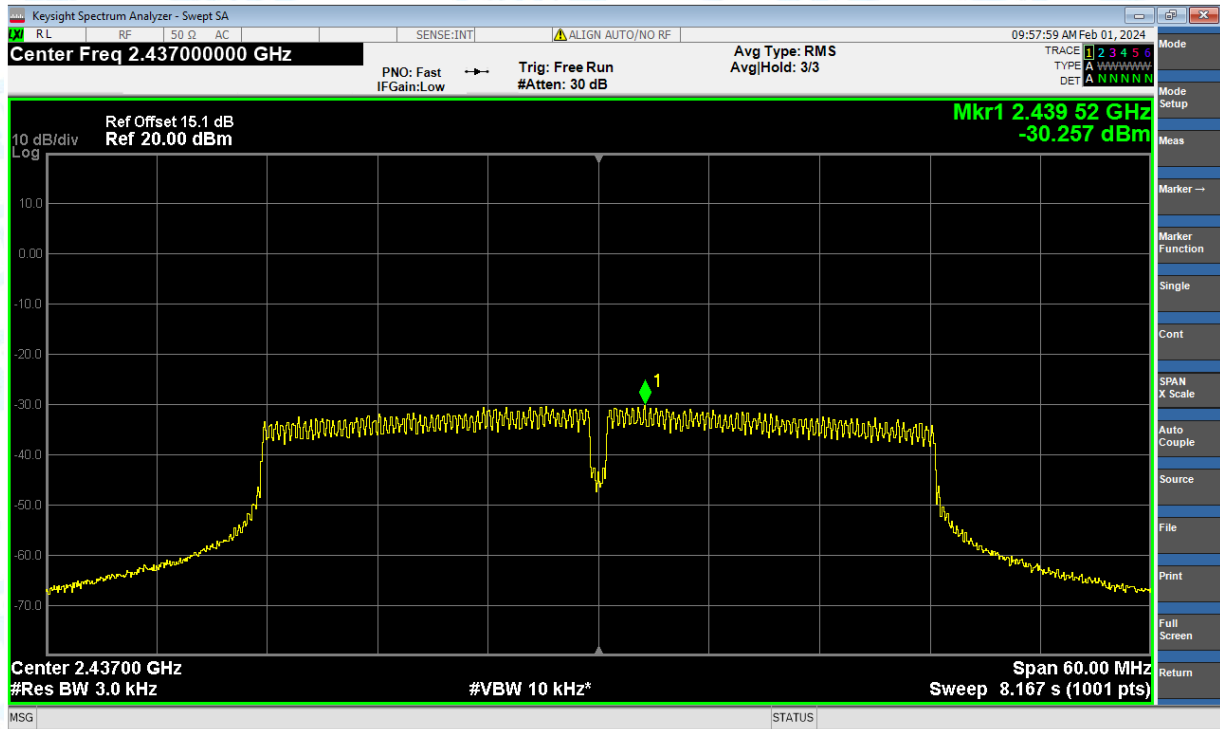
PSD NVNT n(HT20) 2462MHz Ant1



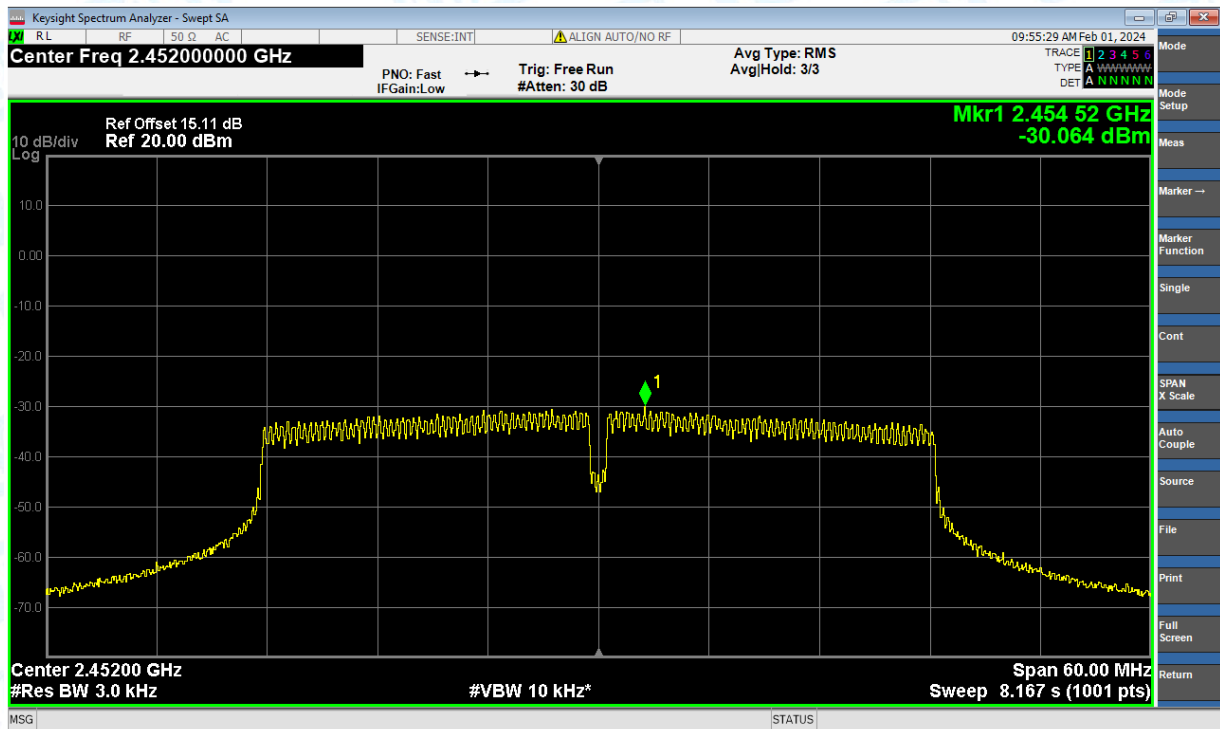
PSD NVNT n(HT40) 2422MHz Ant1



PSD NVNT n(HT40) 2437MHz Ant1



PSD NVNT n(HT40) 2452MHz Ant1

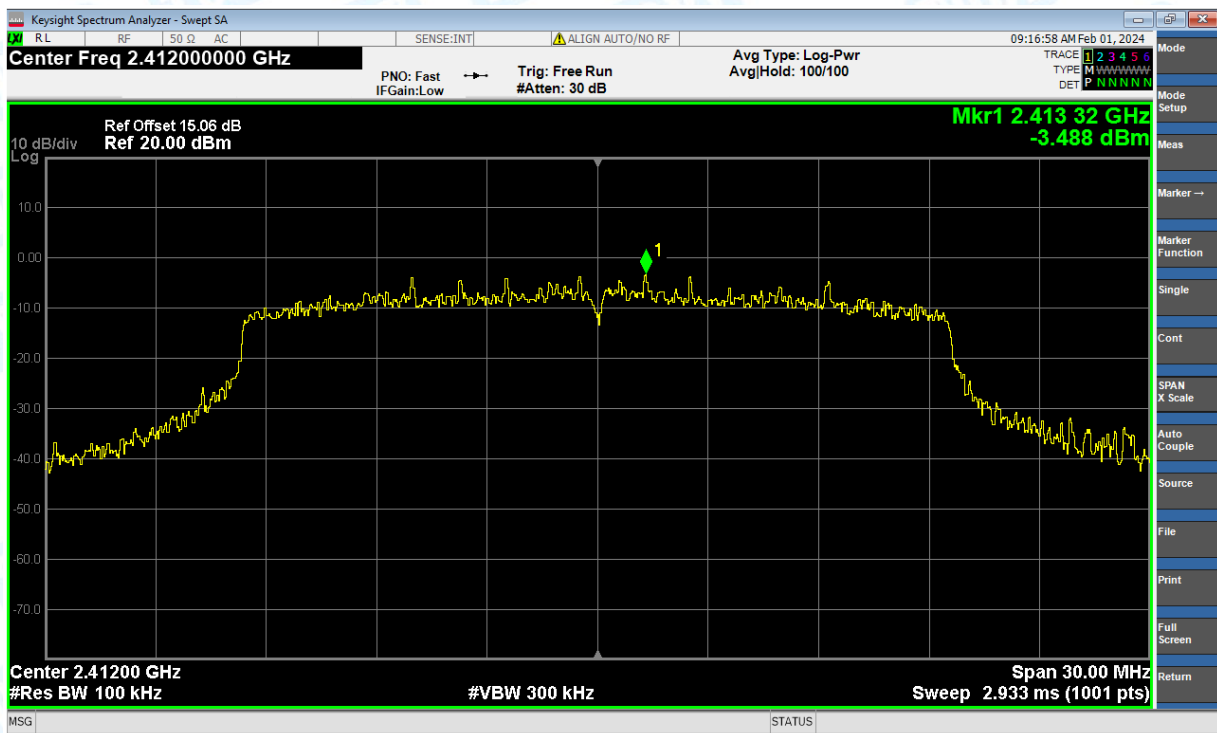


6. Band Edge

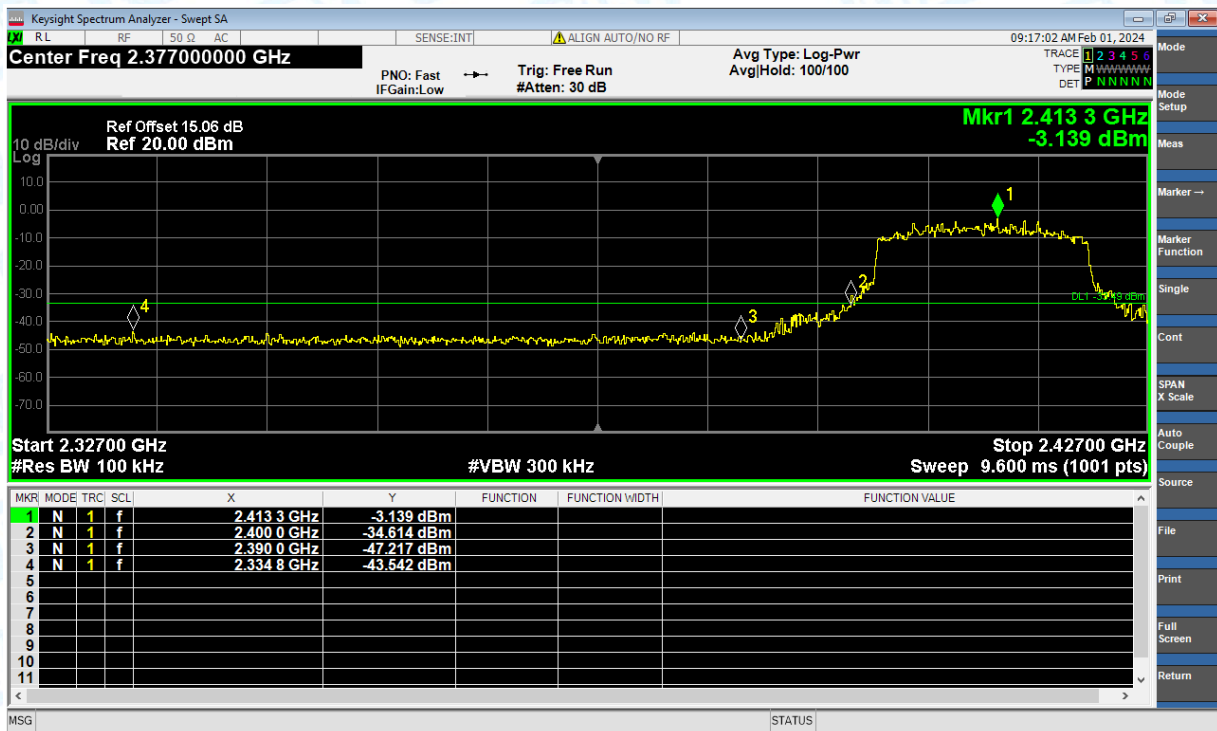
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	ax(HE20)	2412	Ant1	-40.05	-30	Pass
NVNT	ax(HE20)	2462	Ant1	-40.85	-30	Pass
NVNT	ax(HE40)	2422	Ant1	-37.27	-30	Pass
NVNT	ax(HE40)	2452	Ant1	-37.55	-30	Pass
NVNT	b	2412	Ant1	-44.04	-30	Pass
NVNT	b	2462	Ant1	-43.08	-30	Pass
NVNT	g	2412	Ant1	-41.19	-30	Pass
NVNT	g	2462	Ant1	-39.87	-30	Pass
NVNT	n(HT20)	2412	Ant1	-41.62	-30	Pass
NVNT	n(HT20)	2462	Ant1	-42.36	-30	Pass
NVNT	n(HT40)	2422	Ant1	-37.94	-30	Pass
NVNT	n(HT40)	2452	Ant1	-37.7	-30	Pass

Test Graphs

Band Edge NVNT ax(HE20) 2412MHz Ant1 Ref



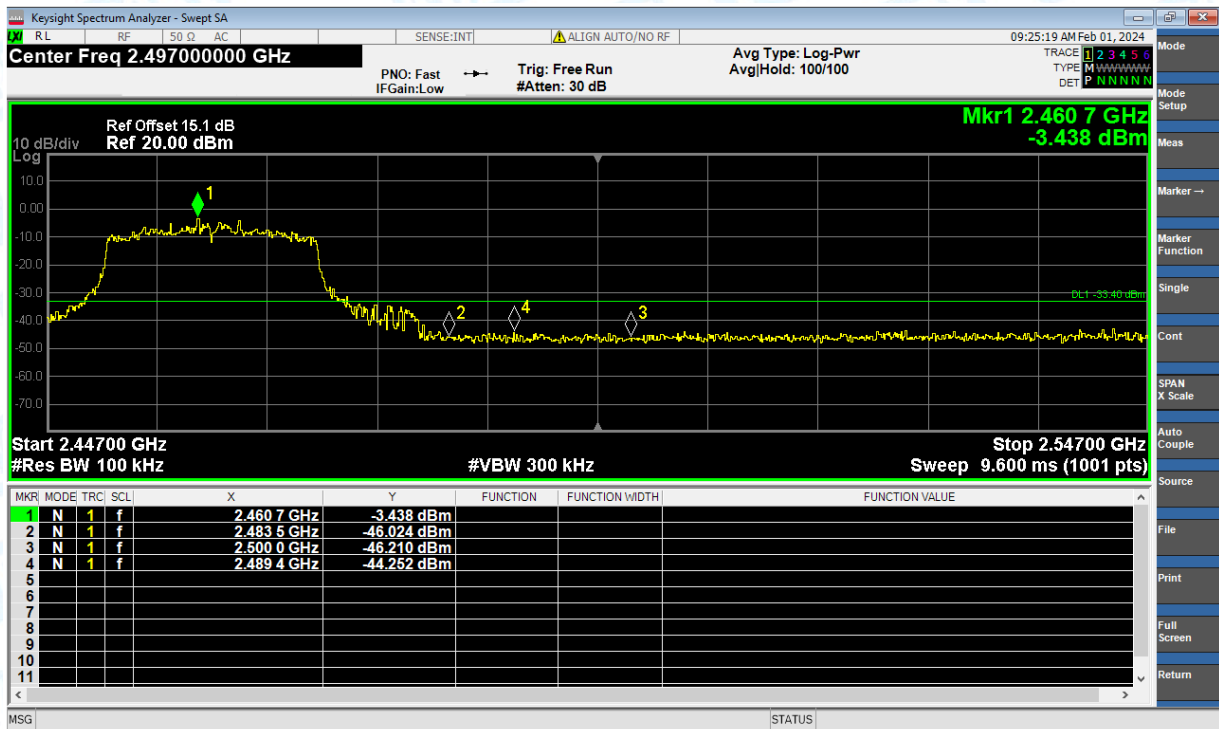
Band Edge NVNT ax(HE20) 2412MHz Ant1 Emission



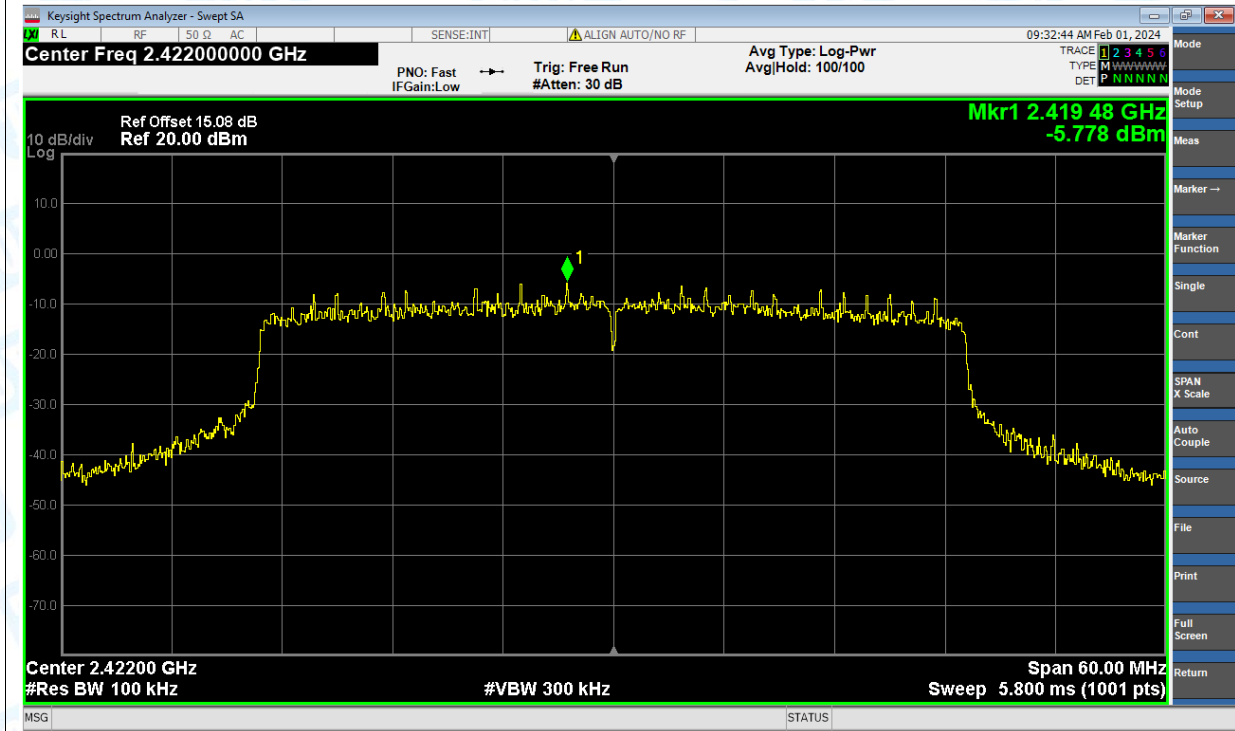
Band Edge NVNT ax(HE20) 2462MHz Ant1 Ref



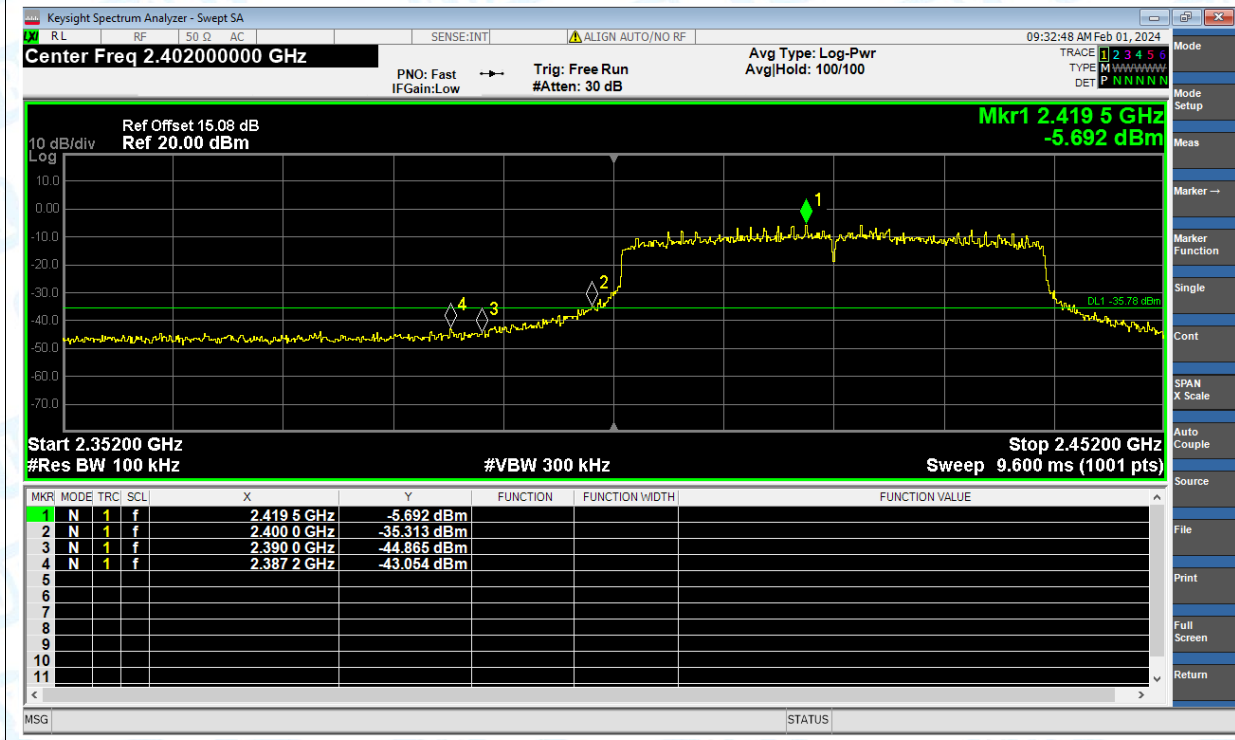
Band Edge NVNT ax(HE20) 2462MHz Ant1 Emission



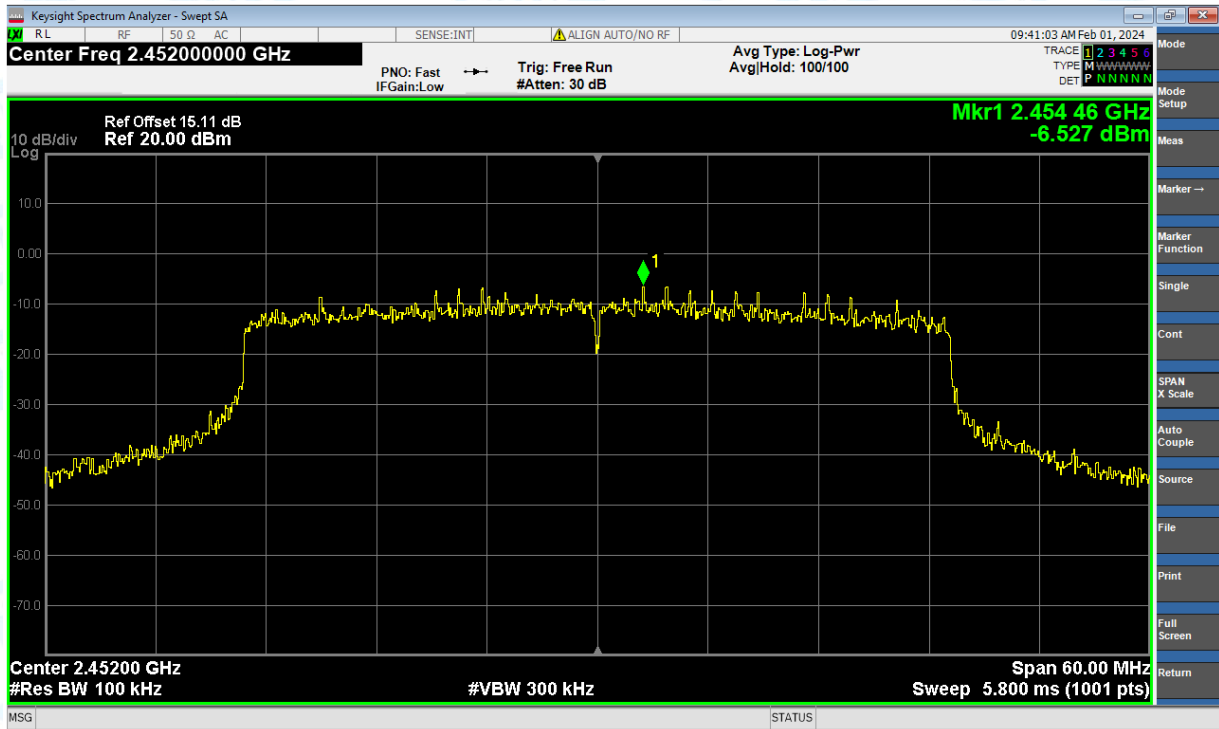
Band Edge NVNT ax(HE40) 2422MHz Ant1 Ref



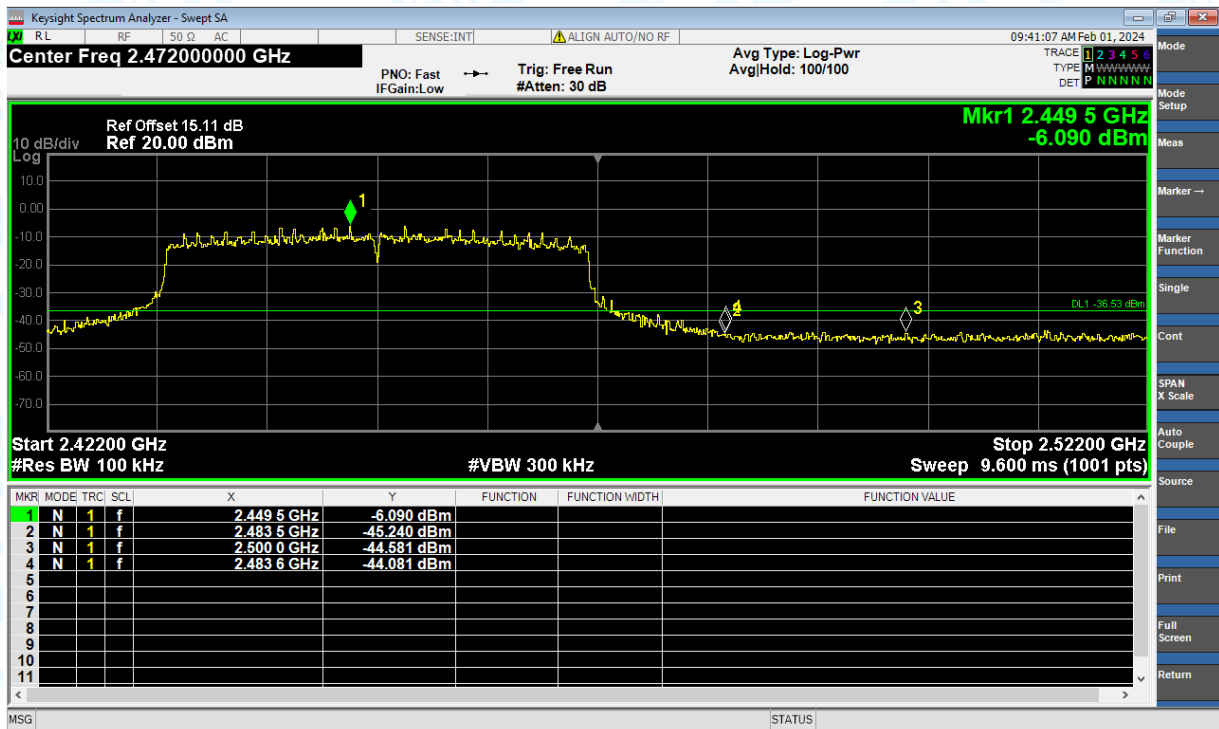
Band Edge NVNT ax(HE40) 2422MHz Ant1 Emission



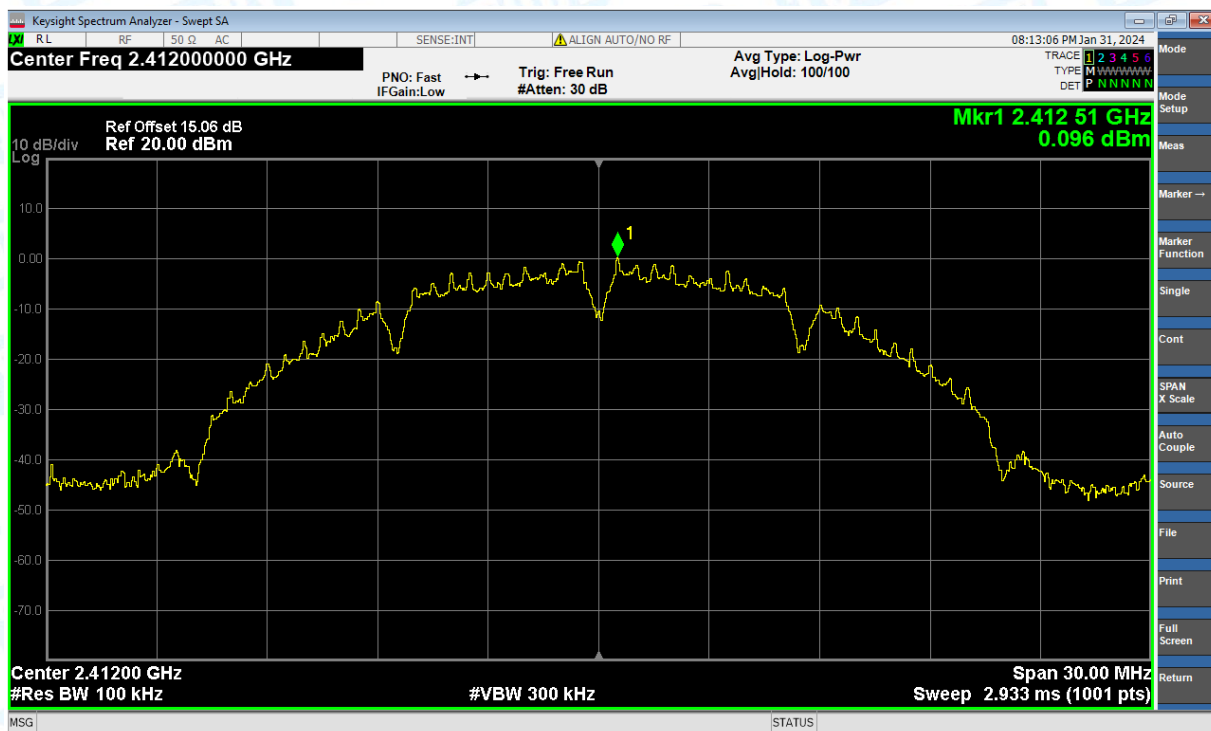
Band Edge NVNT ax(HE40) 2452MHz Ant1 Ref



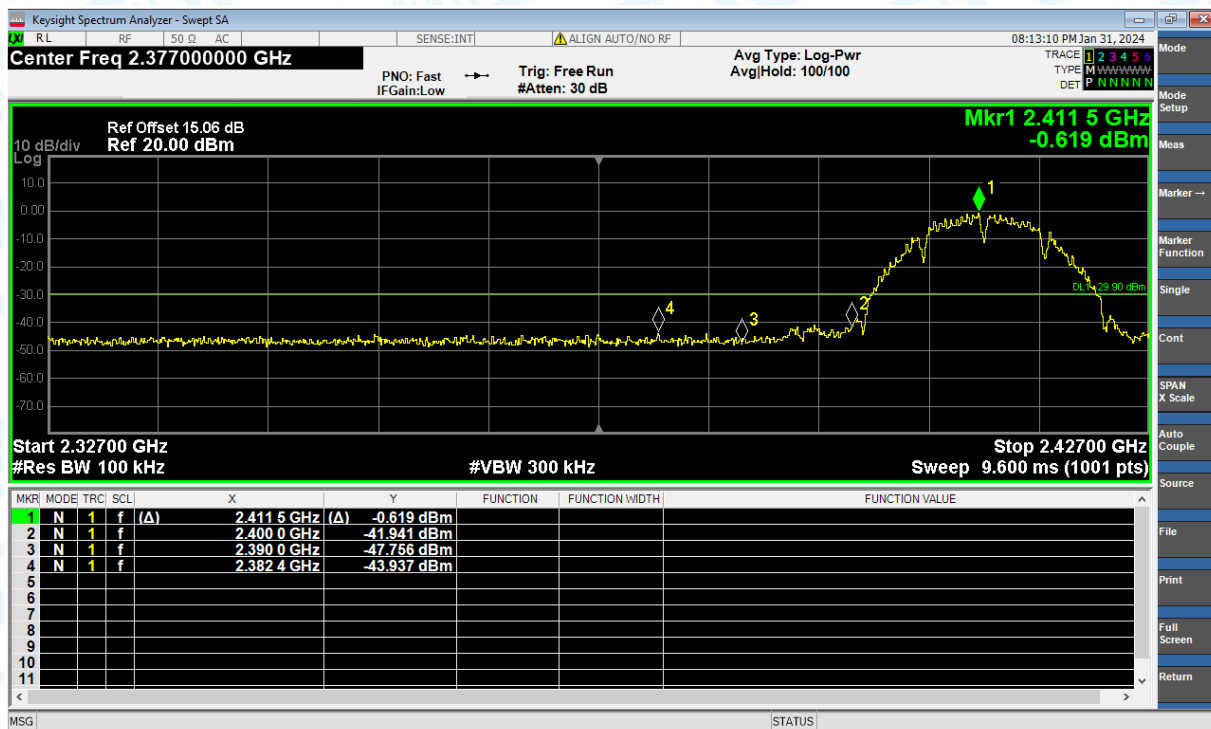
Band Edge NVNT ax(HE40) 2452MHz Ant1 Emission



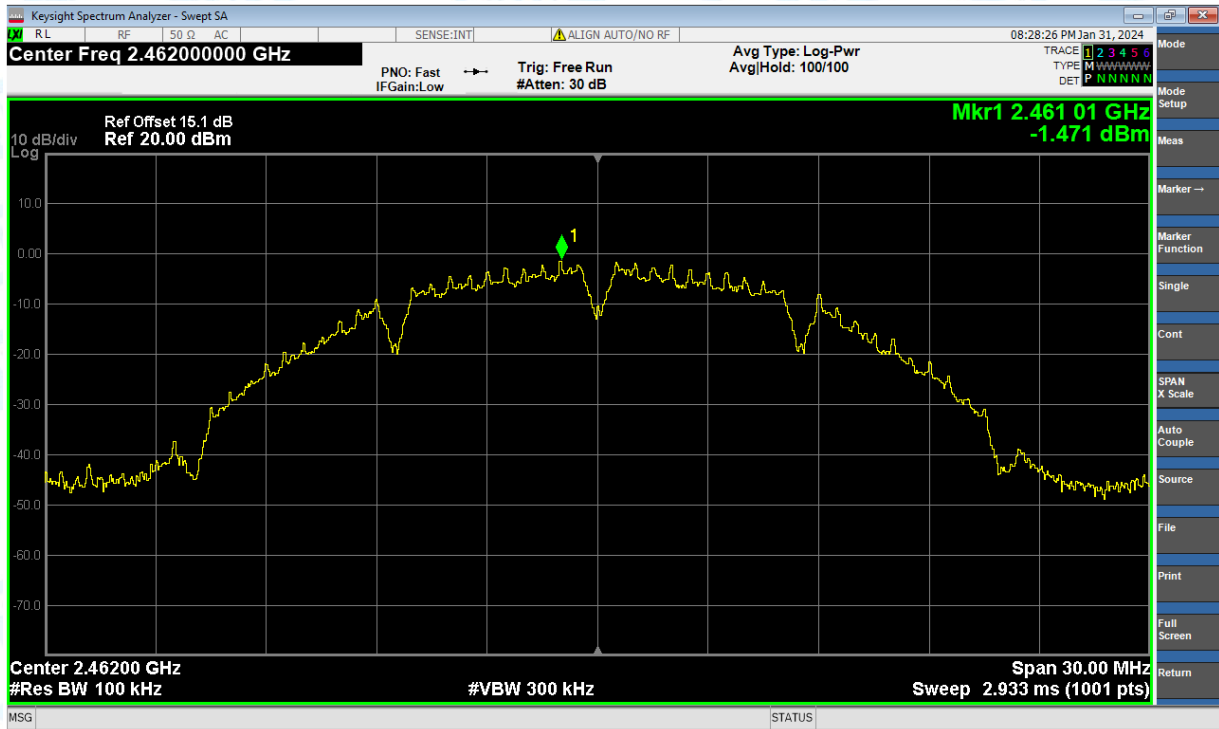
Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission



Band Edge NVNT b 2462MHz Ant1 Ref



Band Edge NVNT b 2462MHz Ant1 Emission

