

RF Test Data for 2.4G WiFi (Conducted Measurements)

General Description of EUT	
Product Name:	Tablet pc
Test Model:	IT-1001A
Sample ID:	HC-C-202408-0001-03-01-2#
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	DC 3.8V
Test Engineer:	Jolin Lee
Note: For a more detailed features description, please refer to the report TBR-C-202408-0001-182 The report only show the worst case data.	

Contents

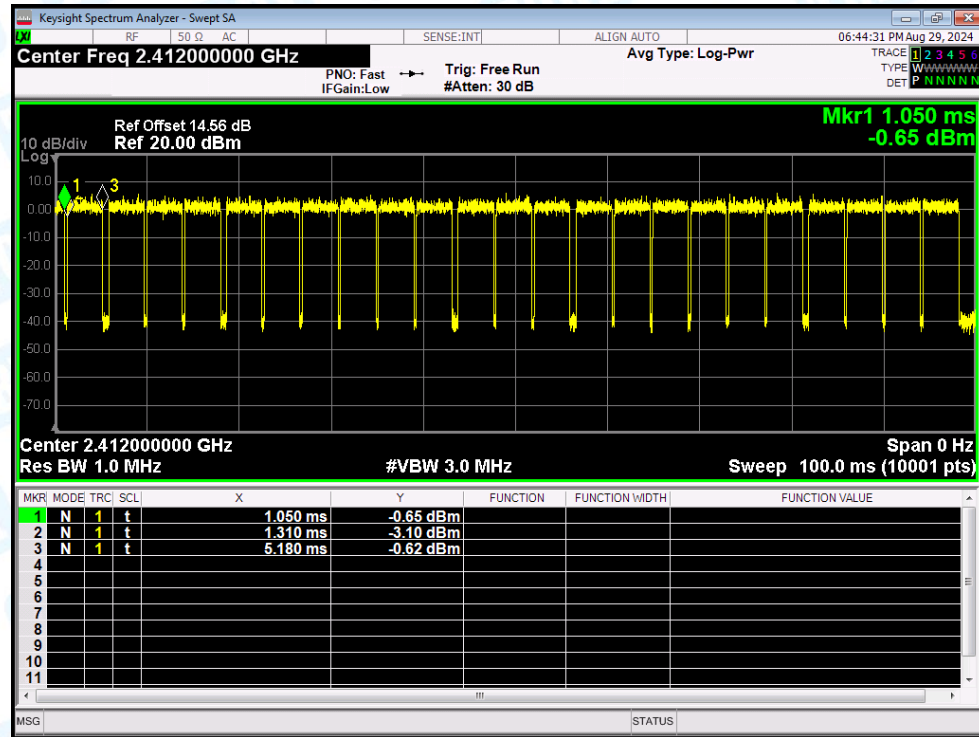
1.	Duty Cycle	3
2.	Maximum Conducted Output Power	13
3.	-6dB Bandwidth	14
4.	Occupied Channel Bandwidth	24
5.	Maximum Power Spectral Density Level	34
6.	Band Edge	44
7.	Conducted RF Spurious Emission	57
8.	Restrict Band	76

1. Duty Cycle

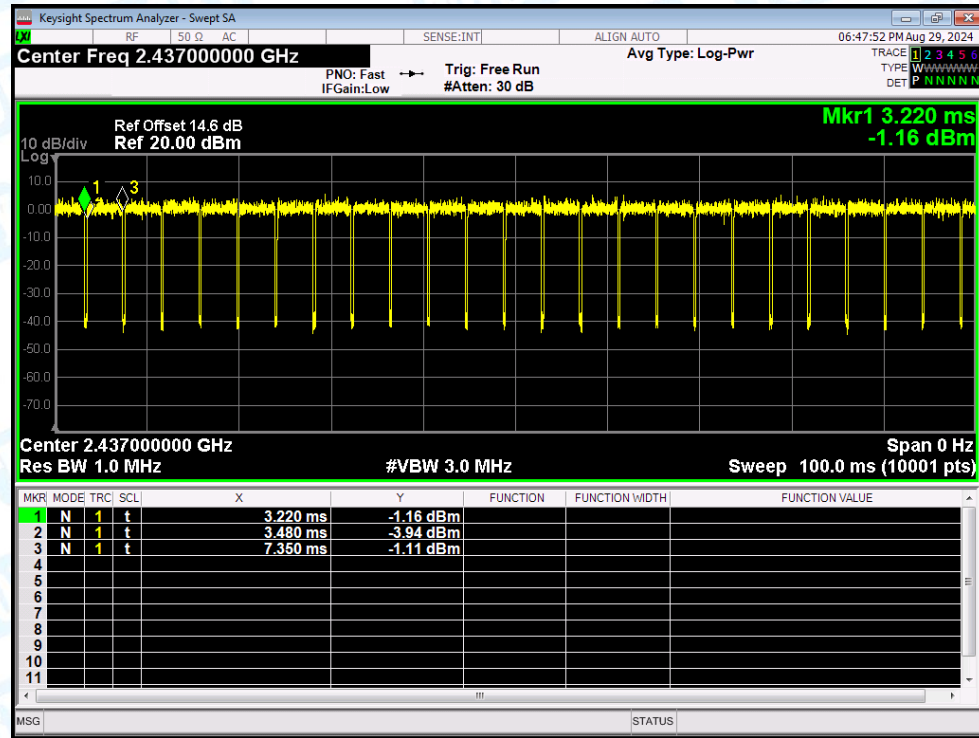
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	ax(VHT20)	2412	Ant1	93.7	0.28	0.26
NVNT	ax(VHT20)	2437	Ant1	93.7	0.28	0.26
NVNT	ax(VHT20)	2462	Ant1	93.95	0.27	0.26
NVNT	ax(VHT40)	2422	Ant1	99.48	0.02	0.26
NVNT	ax(VHT40)	2437	Ant1	88.76	0.52	0.26
NVNT	ax(VHT40)	2452	Ant1	99.48	0.02	0.26
NVNT	b	2412	Ant1	92.63	0.33	0.12
NVNT	b	2437	Ant1	98.94	0.05	0.12
NVNT	b	2462	Ant1	98.59	0.06	0.12
NVNT	g	2412	Ant1	92.31	0.35	0.76
NVNT	g	2437	Ant1	93.57	0.29	0.76
NVNT	g	2462	Ant1	94.29	0.26	0.76
NVNT	n(HT20)	2412	Ant1	86.71	0.62	0.2
NVNT	n(HT20)	2437	Ant1	95.14	0.22	0.2
NVNT	n(HT20)	2462	Ant1	95.32	0.21	0.2
NVNT	n(HT40)	2422	Ant1	90.91	0.41	0.2
NVNT	n(HT40)	2437	Ant1	90.72	0.42	0.2
NVNT	n(HT40)	2452	Ant1	90.91	0.41	0.2

Test Graphs

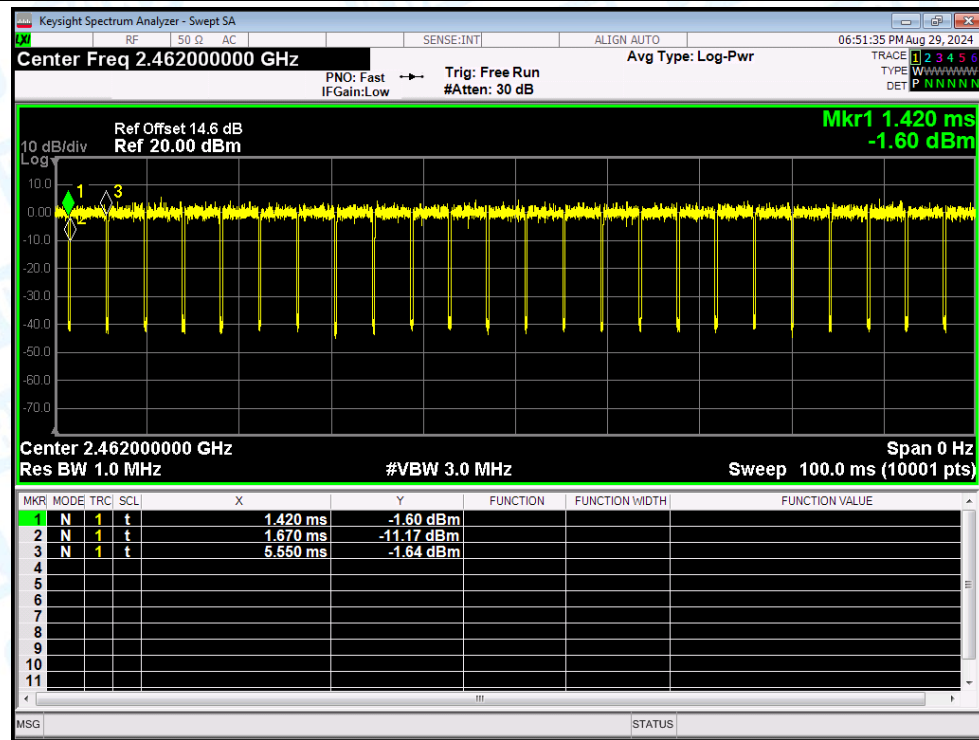
Duty Cycle NVNT ax(VHT20) 2412MHz Ant1



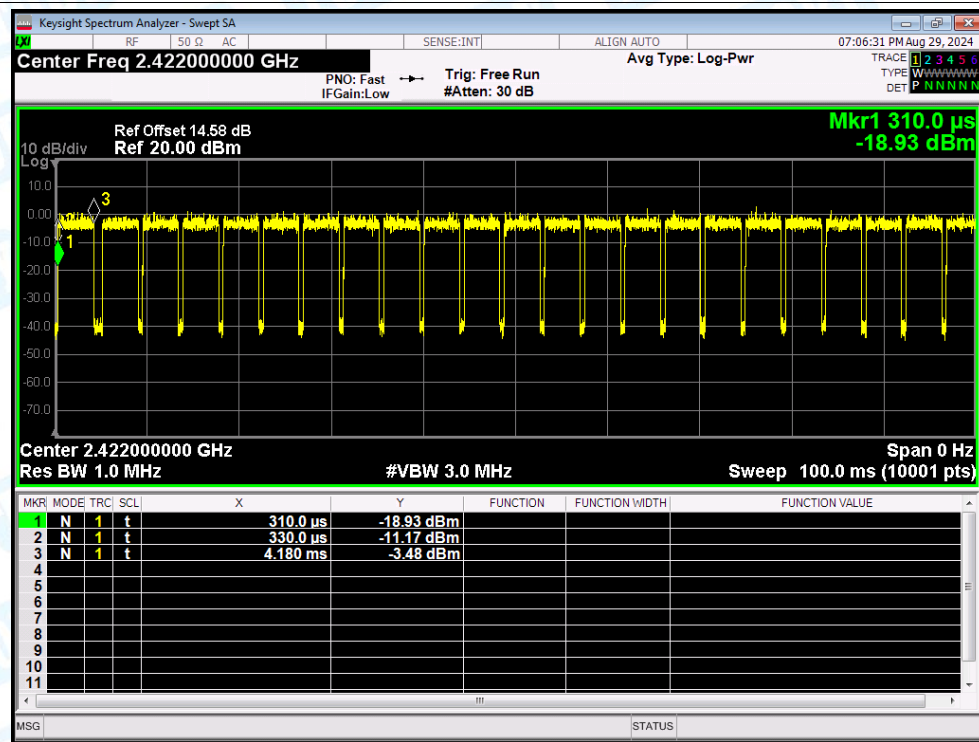
Duty Cycle NVNT ax(VHT20) 2437MHz Ant1



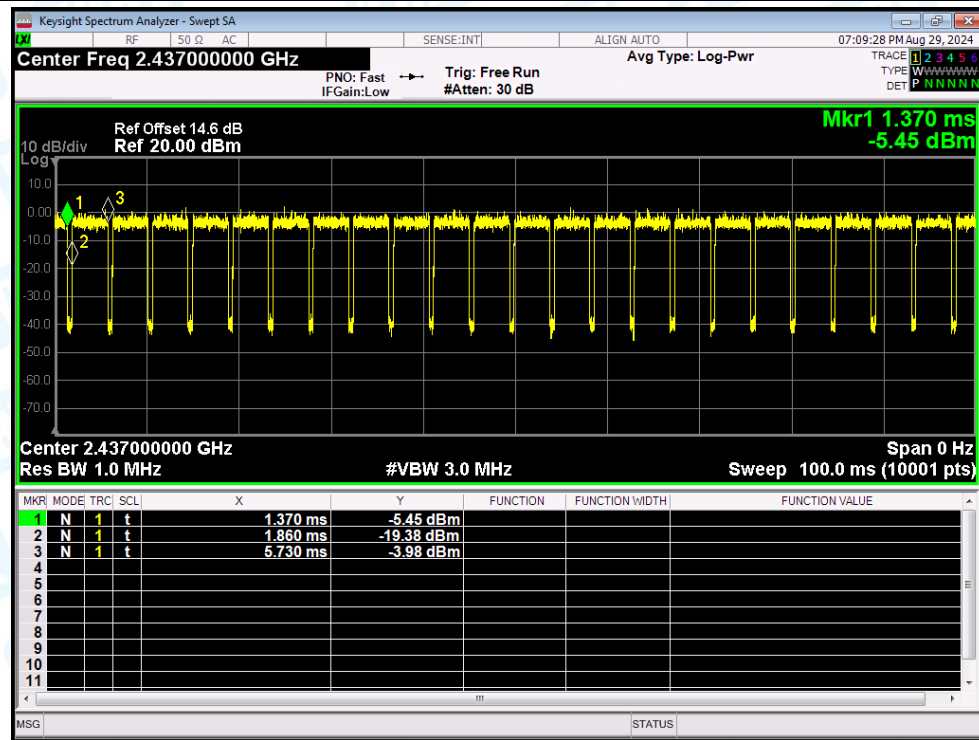
Duty Cycle NVNT ax(VHT20) 2462MHz Ant1



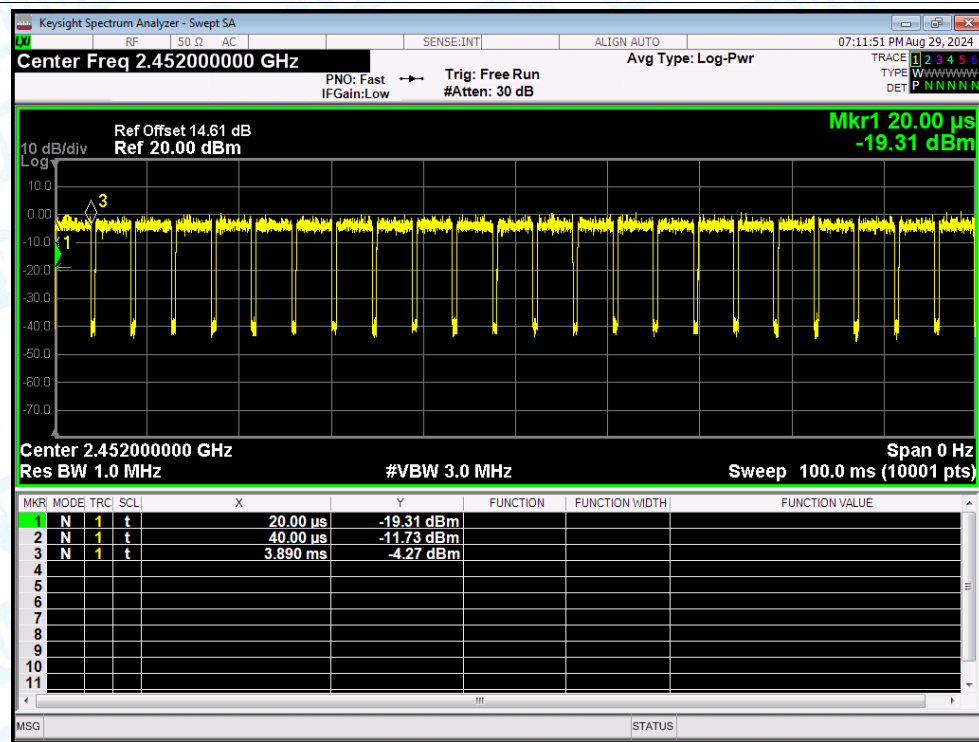
Duty Cycle NVNT ax(VHT40) 2422MHz Ant1



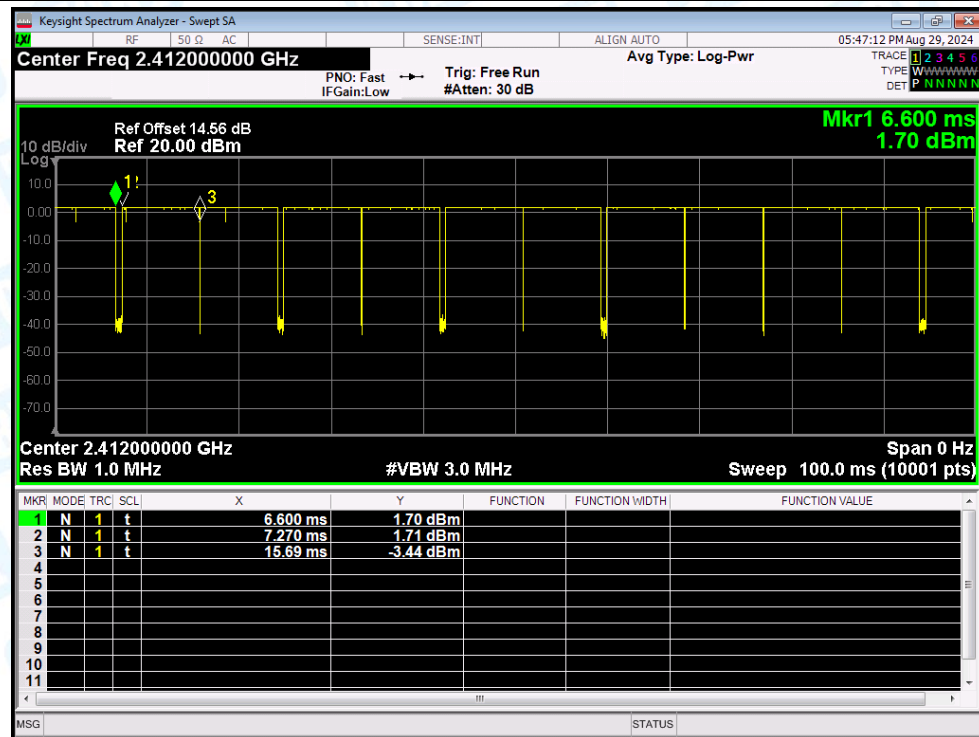
Duty Cycle NVNT ax(VHT40) 2437MHz Ant1



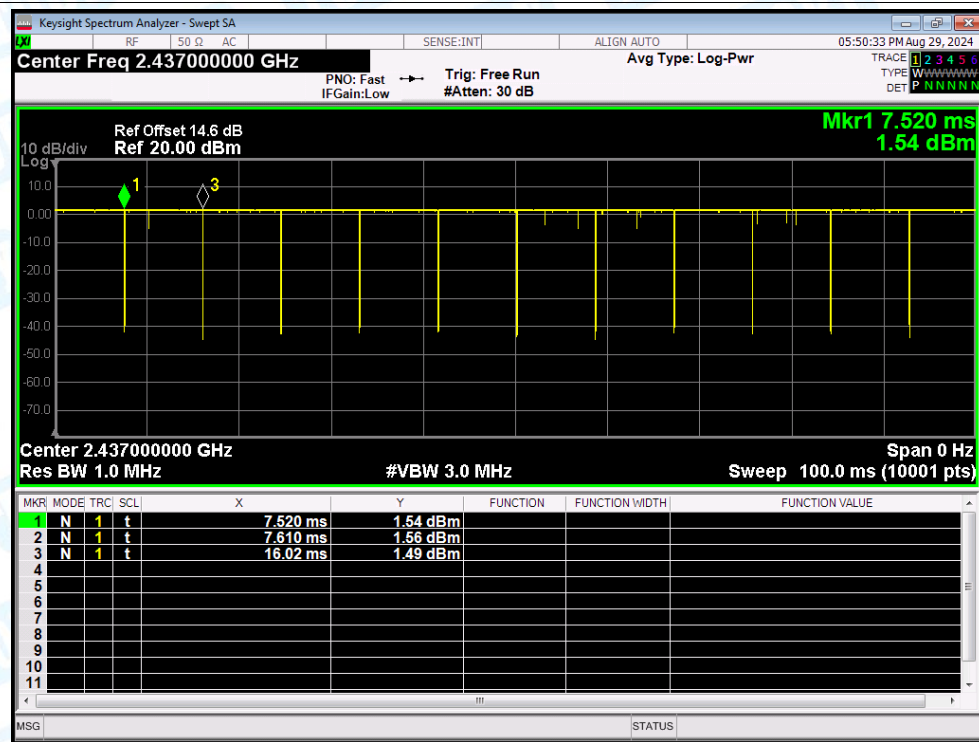
Duty Cycle NVNT ax(VHT40) 2452MHz Ant1



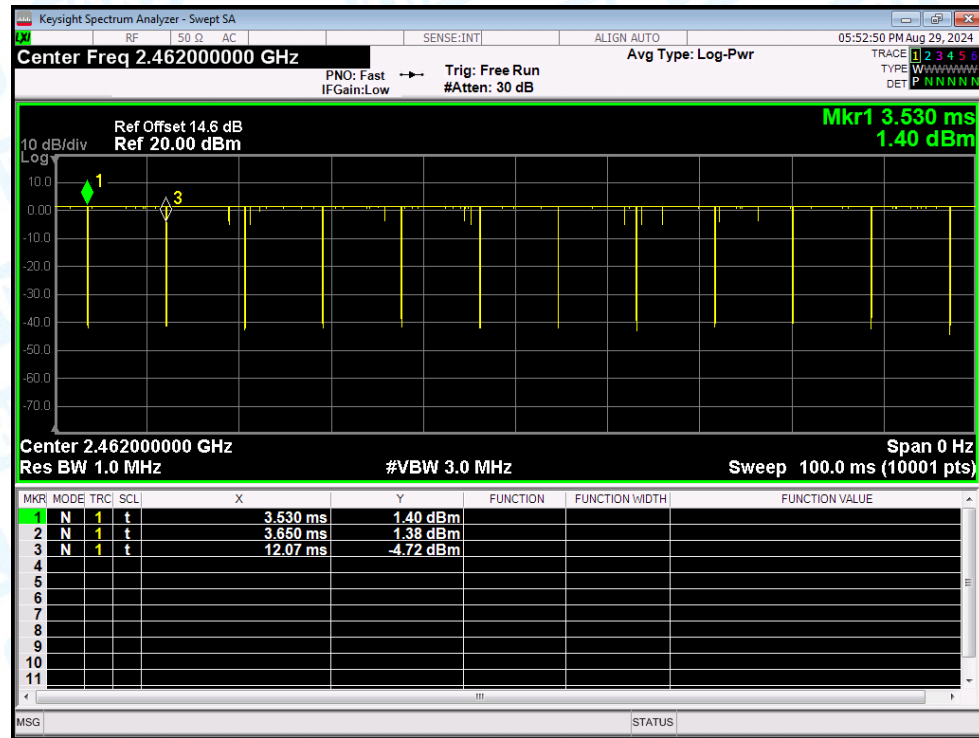
Duty Cycle NVNT b 2412MHz Ant1



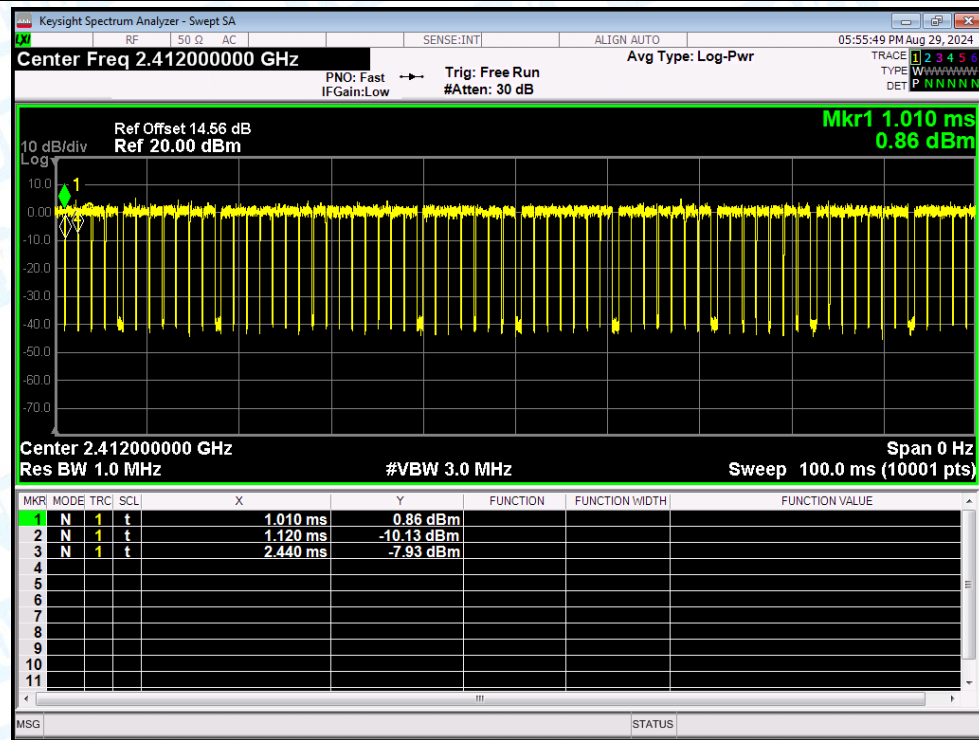
Duty Cycle NVNT b 2437MHz Ant1



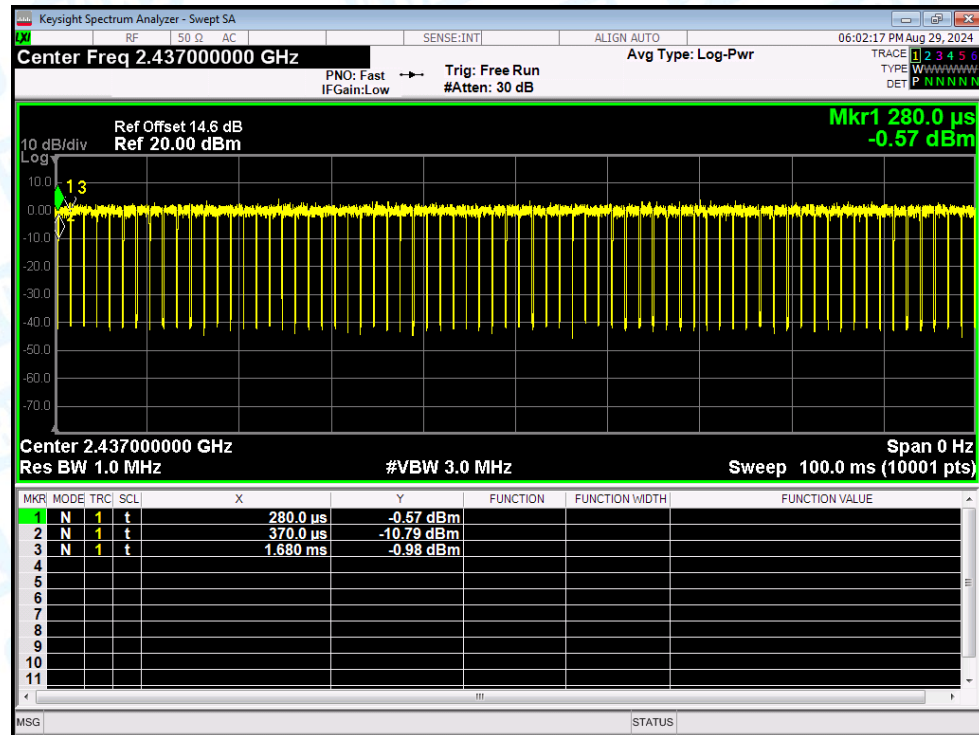
Duty Cycle NVNT b 2462MHz Ant1



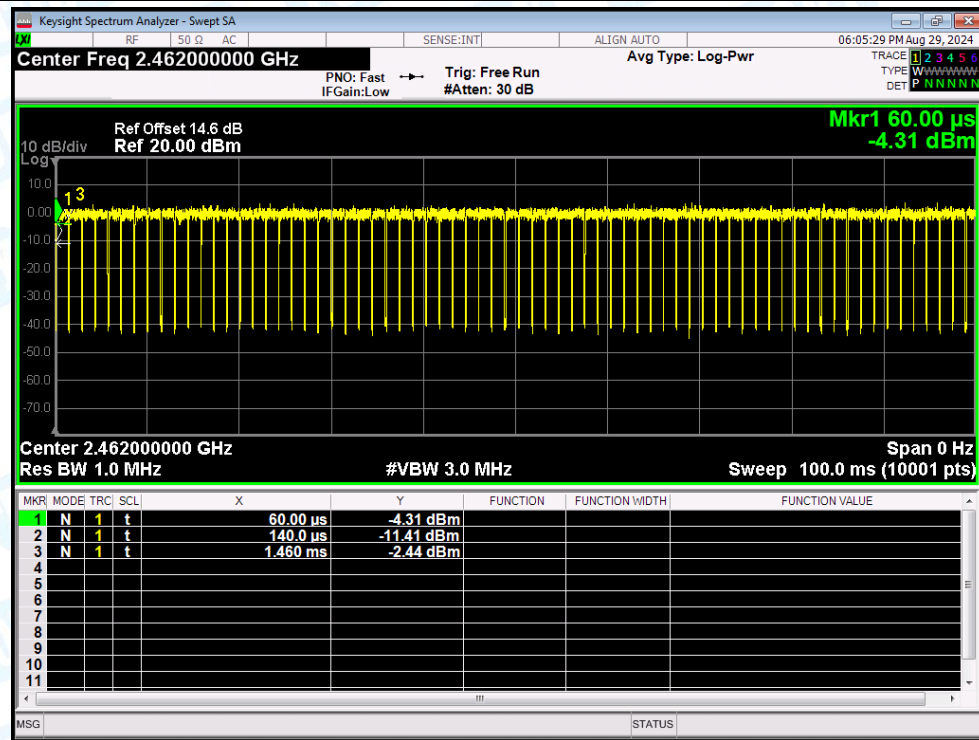
Duty Cycle NVNT g 2412MHz Ant1



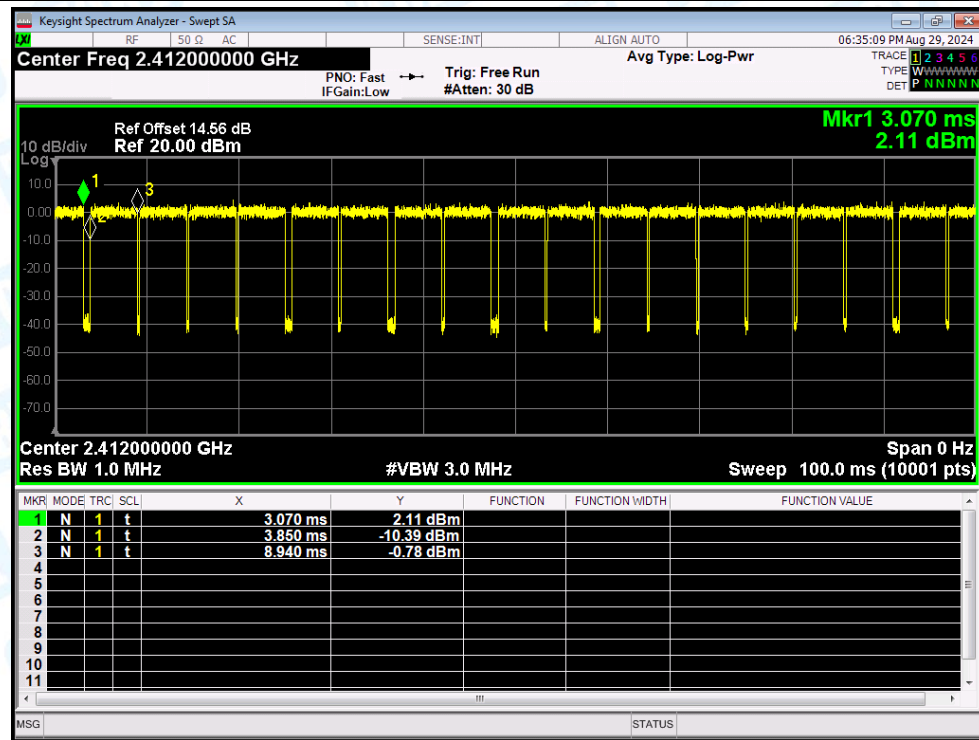
Duty Cycle NVNT g 2437MHz Ant1



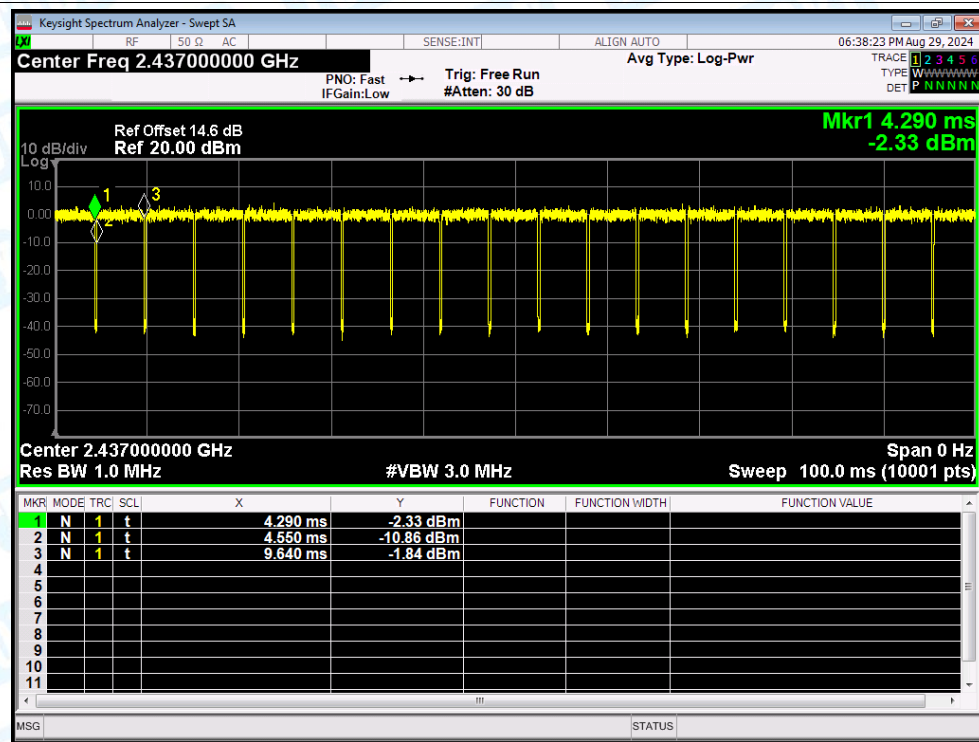
Duty Cycle NVNT g 2462MHz Ant1



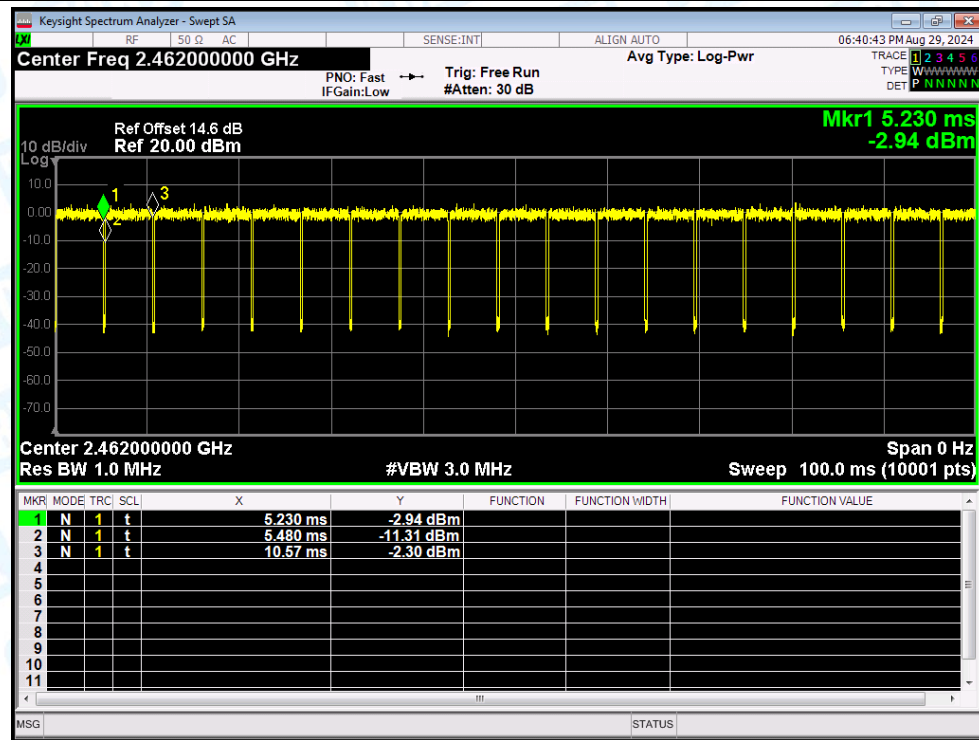
Duty Cycle NVNT n(HT20) 2412MHz Ant1



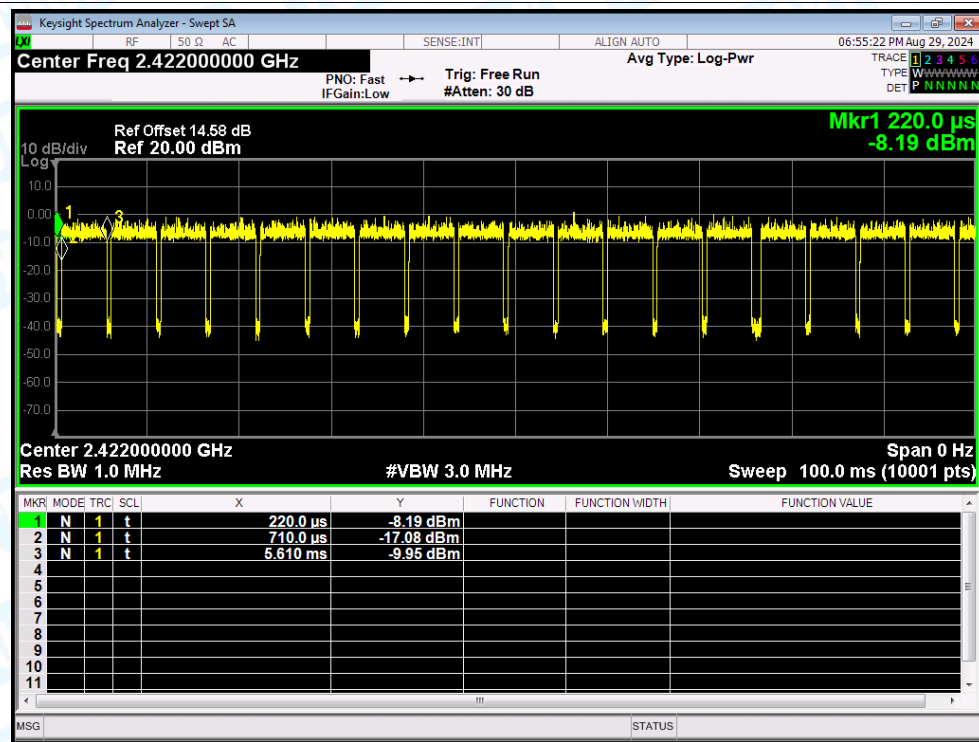
Duty Cycle NVNT n(HT20) 2437MHz Ant1



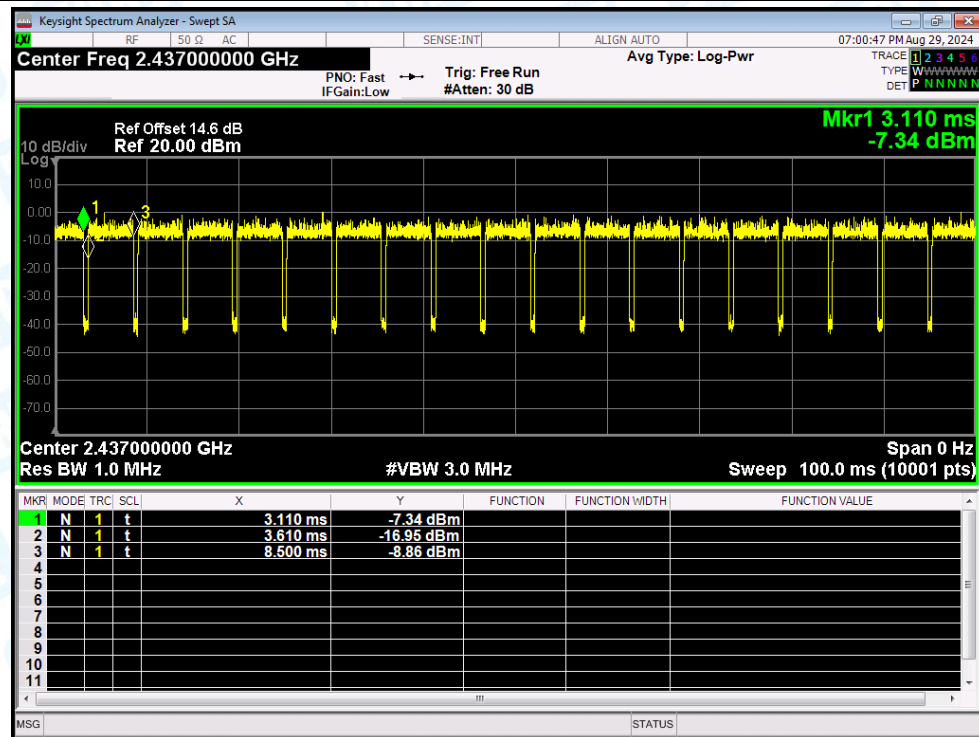
Duty Cycle NVNT n(HT20) 2462MHz Ant1



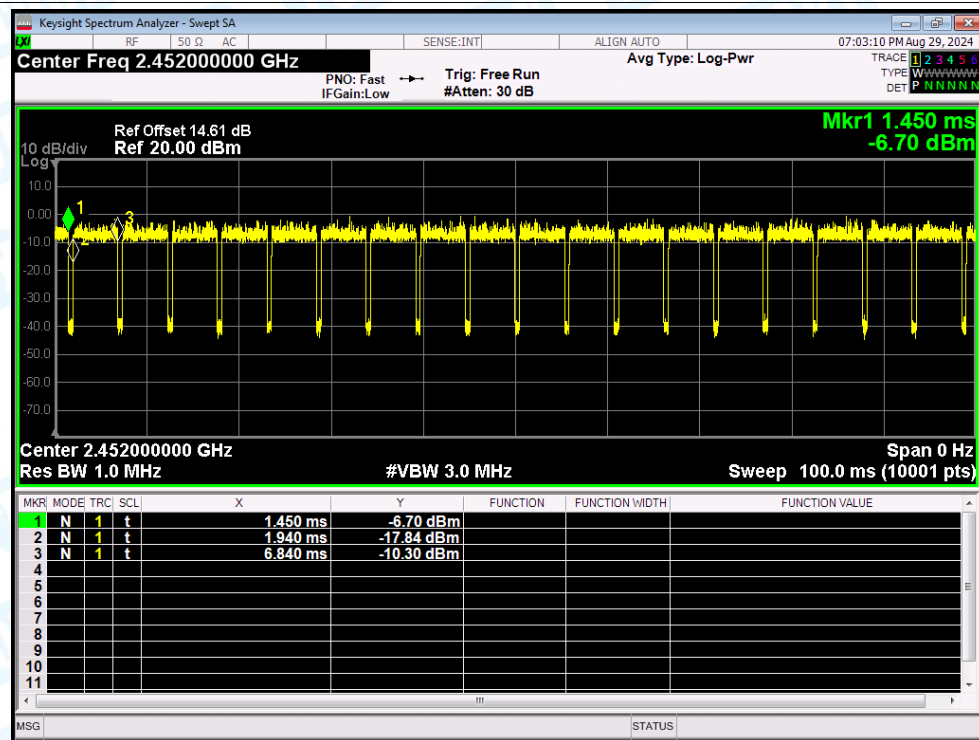
Duty Cycle NVNT n(HT40) 2422MHz Ant1



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(VHT20)	2412	Ant1	6.40	30	Pass
NVNT	ax(VHT20)	2437	Ant1	5.84	30	Pass
NVNT	ax(VHT20)	2462	Ant1	5.25	30	Pass
NVNT	ax(VHT40)	2422	Ant1	5.84	30	Pass
NVNT	ax(VHT40)	2437	Ant1	5.99	30	Pass
NVNT	ax(VHT40)	2452	Ant1	5.16	30	Pass
NVNT	b	2412	Ant1	6.97	30	Pass
NVNT	b	2437	Ant1	6.49	30	Pass
NVNT	b	2462	Ant1	6.25	30	Pass
NVNT	g	2412	Ant1	6.61	30	Pass
NVNT	g	2437	Ant1	5.98	30	Pass
NVNT	g	2462	Ant1	5.40	30	Pass
NVNT	n(HT20)	2412	Ant1	6.83	30	Pass
NVNT	n(HT20)	2437	Ant1	5.87	30	Pass
NVNT	n(HT20)	2462	Ant1	5.33	30	Pass
NVNT	n(HT40)	2422	Ant1	6.26	30	Pass
NVNT	n(HT40)	2437	Ant1	5.92	30	Pass
NVNT	n(HT40)	2452	Ant1	5.58	30	Pass

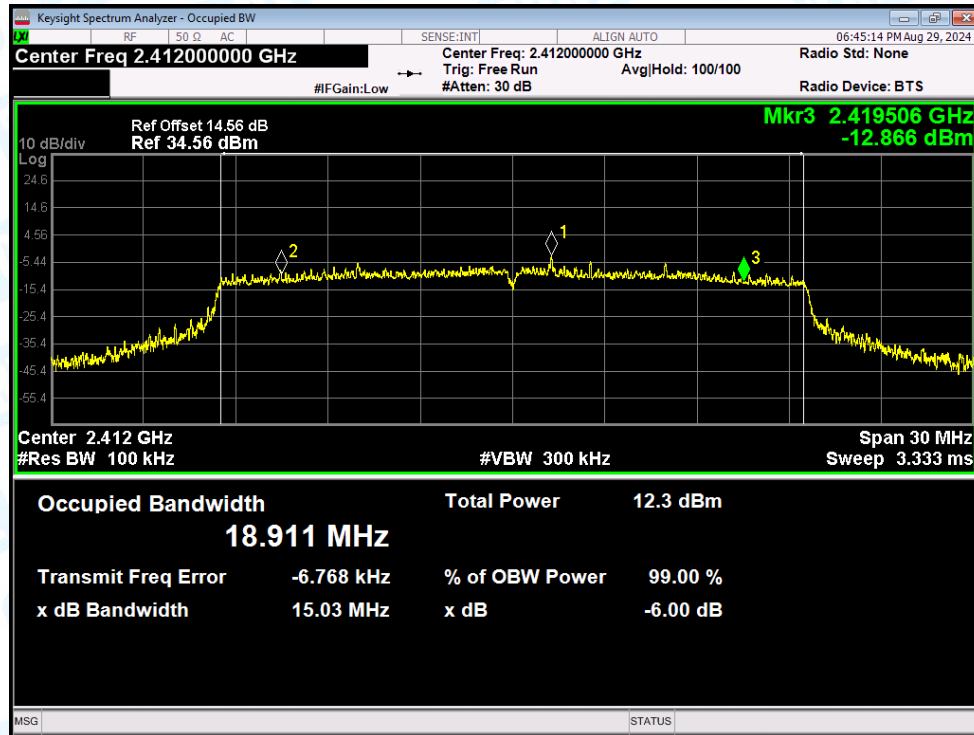
Note: The Duty Cycle Factor is compensated in the graph.

3. -6dB Bandwidth

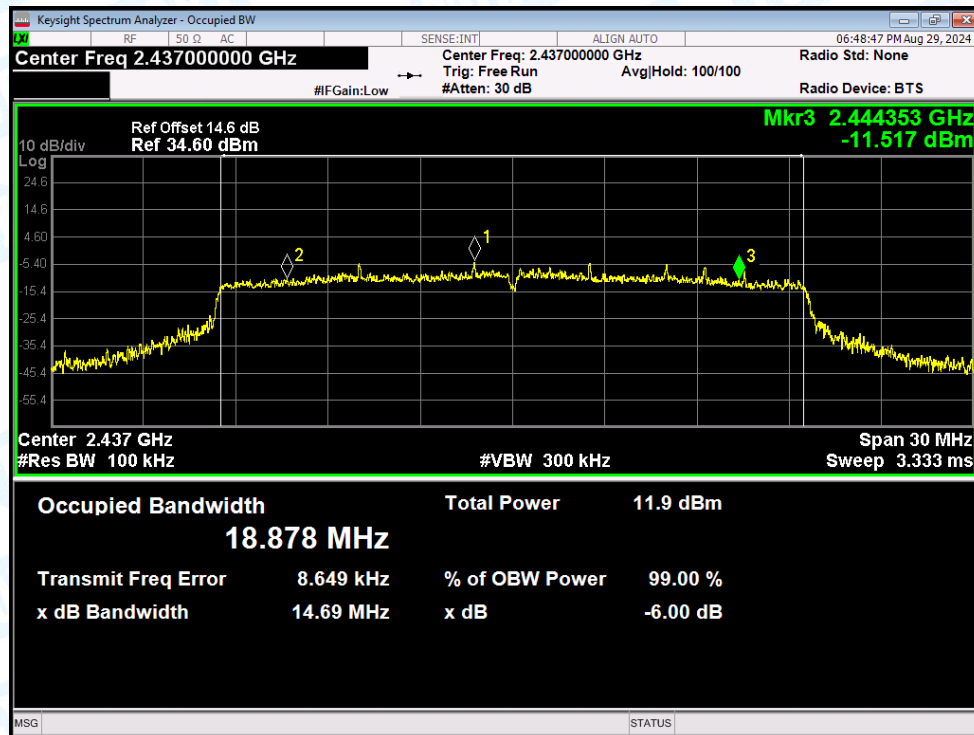
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	ax(VHT20)	2412	Ant1	15.03	0.5	Pass
NVNT	ax(VHT20)	2437	Ant1	14.69	0.5	Pass
NVNT	ax(VHT20)	2462	Ant1	16.64	0.5	Pass
NVNT	ax(VHT40)	2422	Ant1	36.30	0.5	Pass
NVNT	ax(VHT40)	2437	Ant1	36.93	0.5	Pass
NVNT	ax(VHT40)	2452	Ant1	35.73	0.5	Pass
NVNT	b	2412	Ant1	9.55	0.5	Pass
NVNT	b	2437	Ant1	9.59	0.5	Pass
NVNT	b	2462	Ant1	10.09	0.5	Pass
NVNT	g	2412	Ant1	16.10	0.5	Pass
NVNT	g	2437	Ant1	15.35	0.5	Pass
NVNT	g	2462	Ant1	14.95	0.5	Pass
NVNT	n(HT20)	2412	Ant1	14.43	0.5	Pass
NVNT	n(HT20)	2437	Ant1	15.40	0.5	Pass
NVNT	n(HT20)	2462	Ant1	14.96	0.5	Pass
NVNT	n(HT40)	2422	Ant1	32.95	0.5	Pass
NVNT	n(HT40)	2437	Ant1	33.08	0.5	Pass
NVNT	n(HT40)	2452	Ant1	31.64	0.5	Pass

Test Graphs

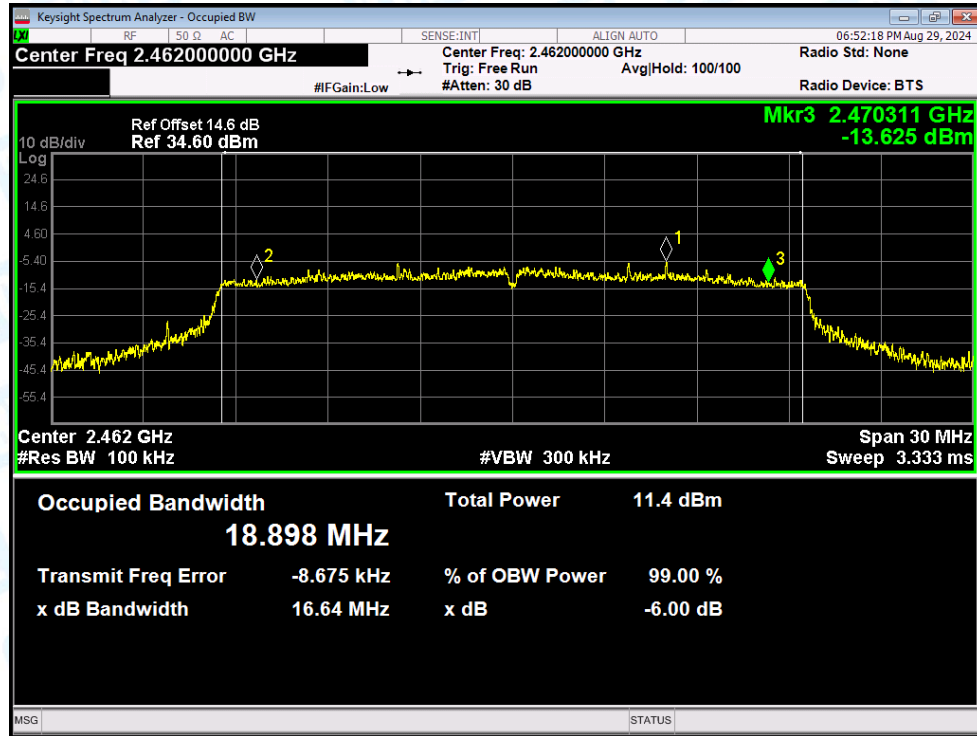
-6dB Bandwidth NVNT ax(VHT20) 2412MHz Ant1



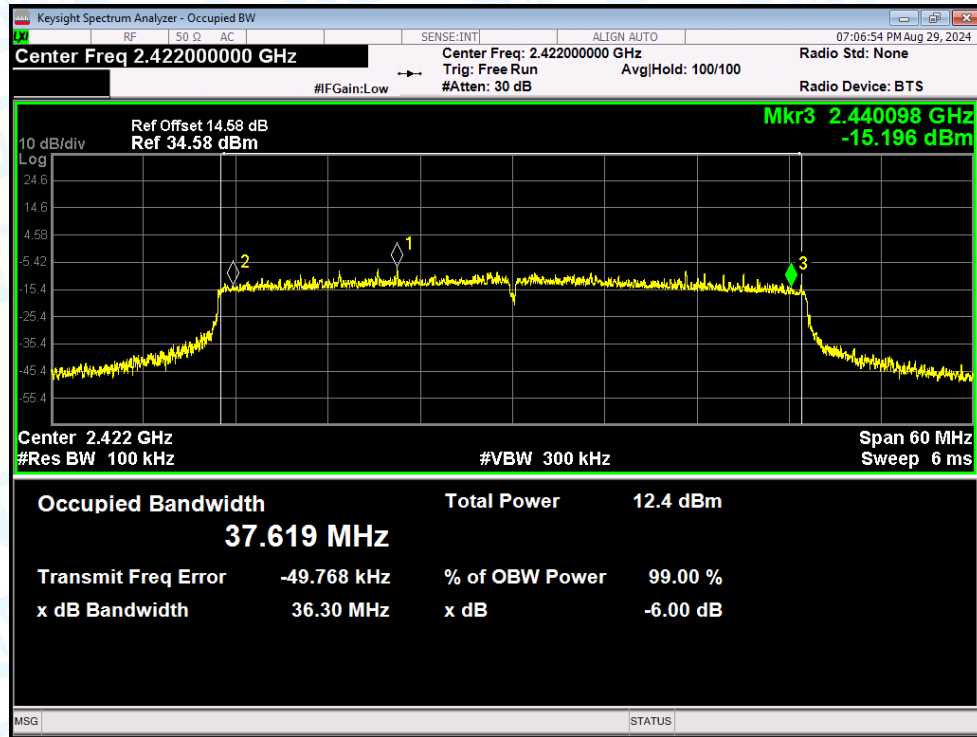
-6dB Bandwidth NVNT ax(VHT20) 2437MHz Ant1



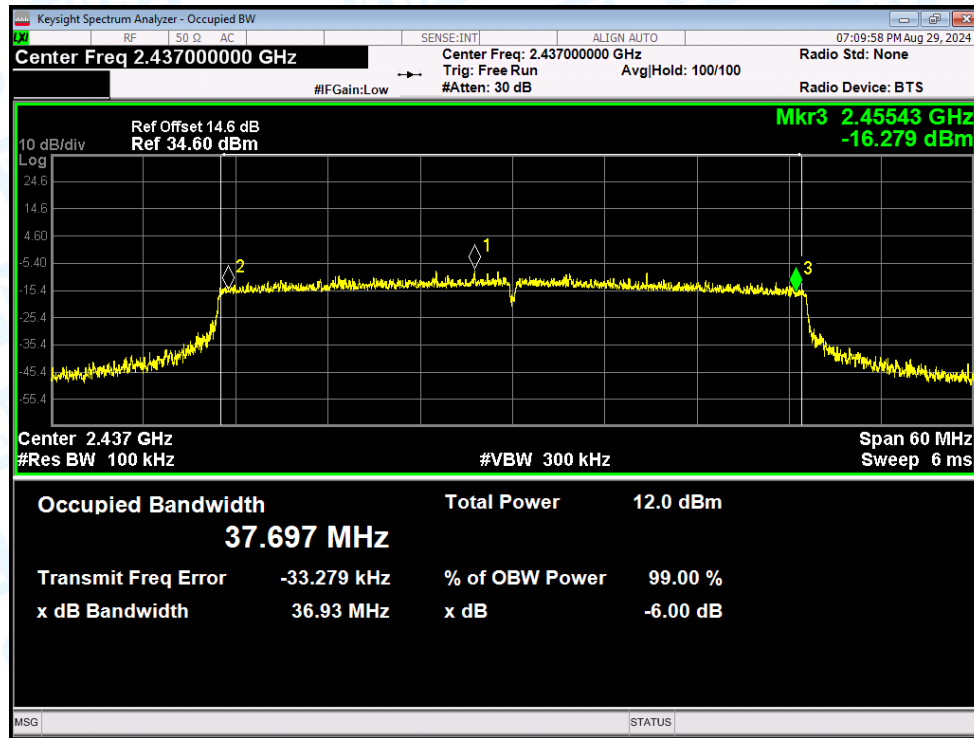
-6dB Bandwidth NVNT ax(VHT20) 2462MHz Ant1



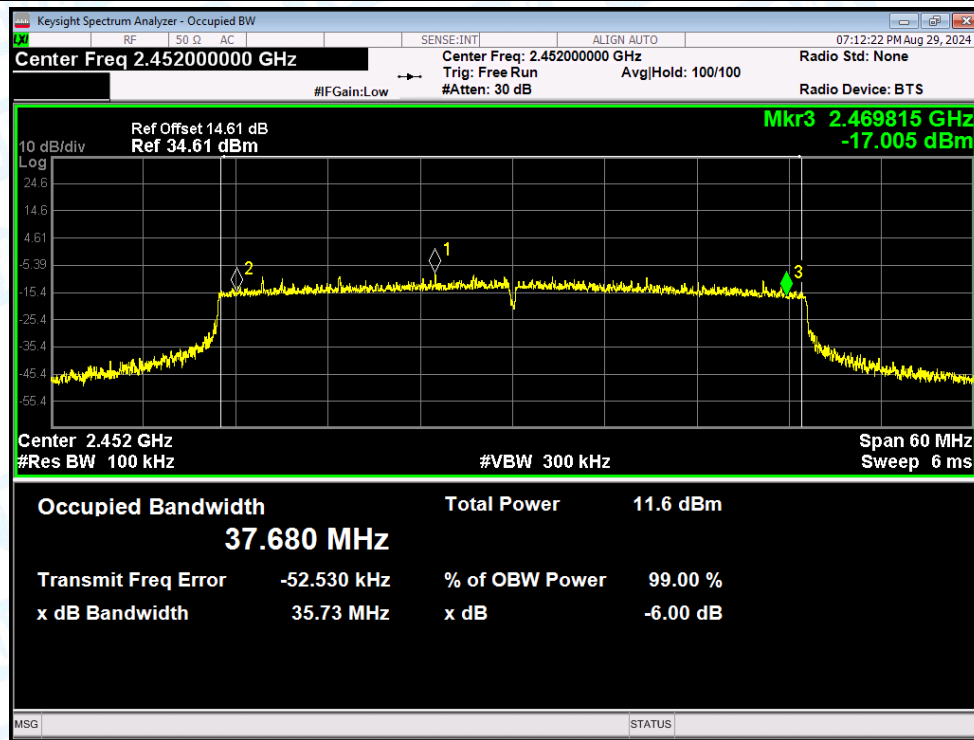
-6dB Bandwidth NVNT ax(VHT40) 2422MHz Ant1



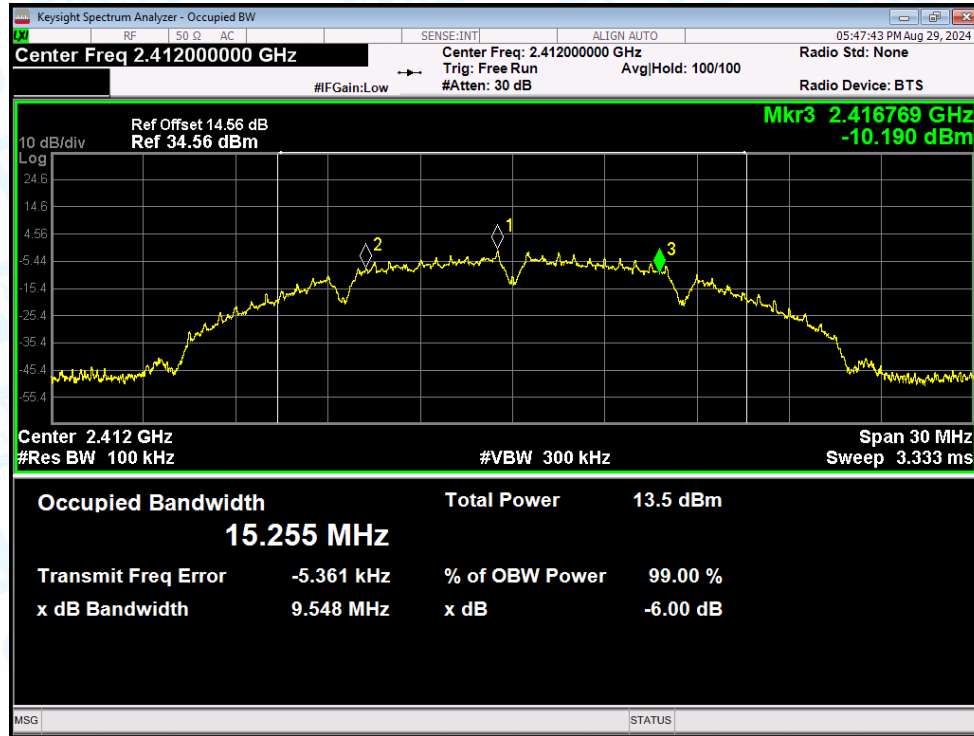
-6dB Bandwidth NVNT ax(VHT40) 2437MHz Ant1



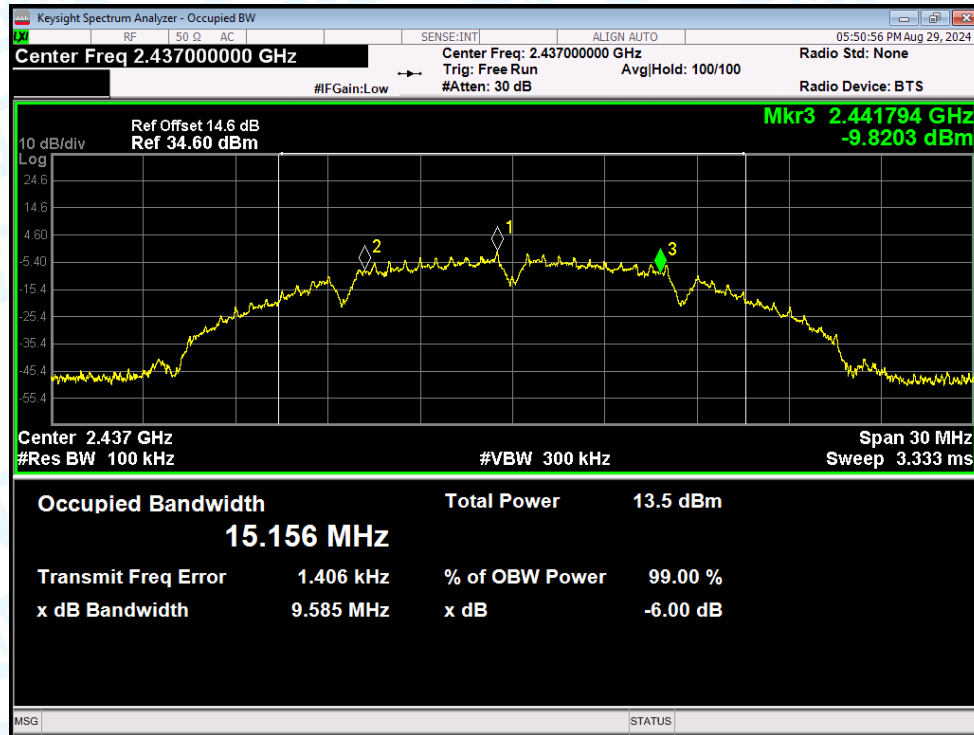
-6dB Bandwidth NVNT ax(VHT40) 2452MHz Ant1



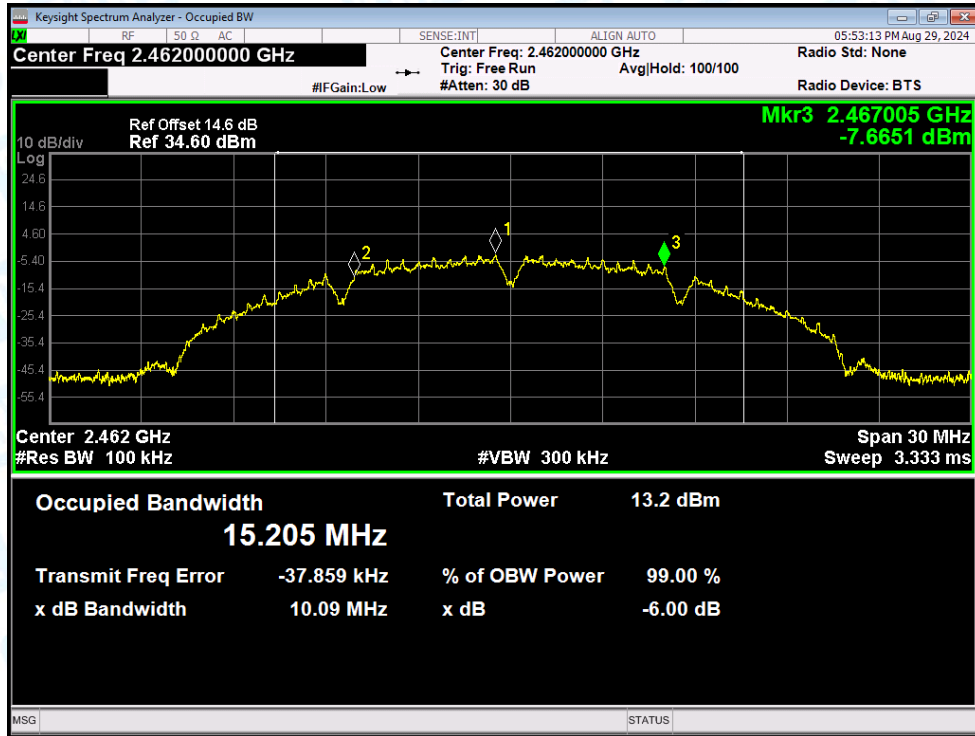
-6dB Bandwidth NVNT b 2412MHz Ant1



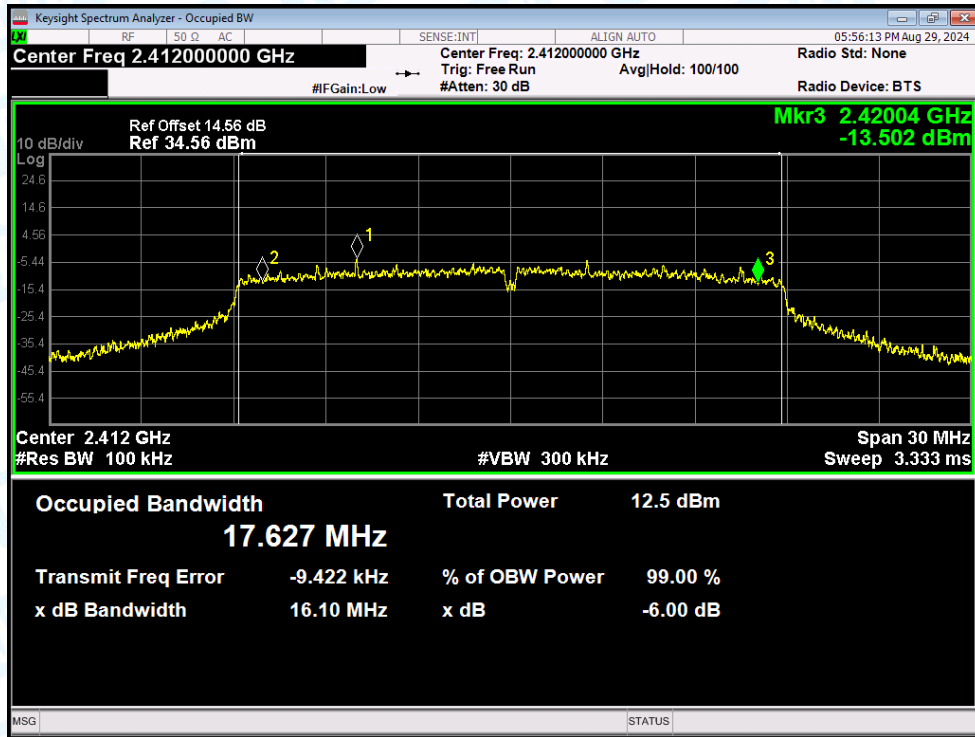
-6dB Bandwidth NVNT b 2437MHz Ant1



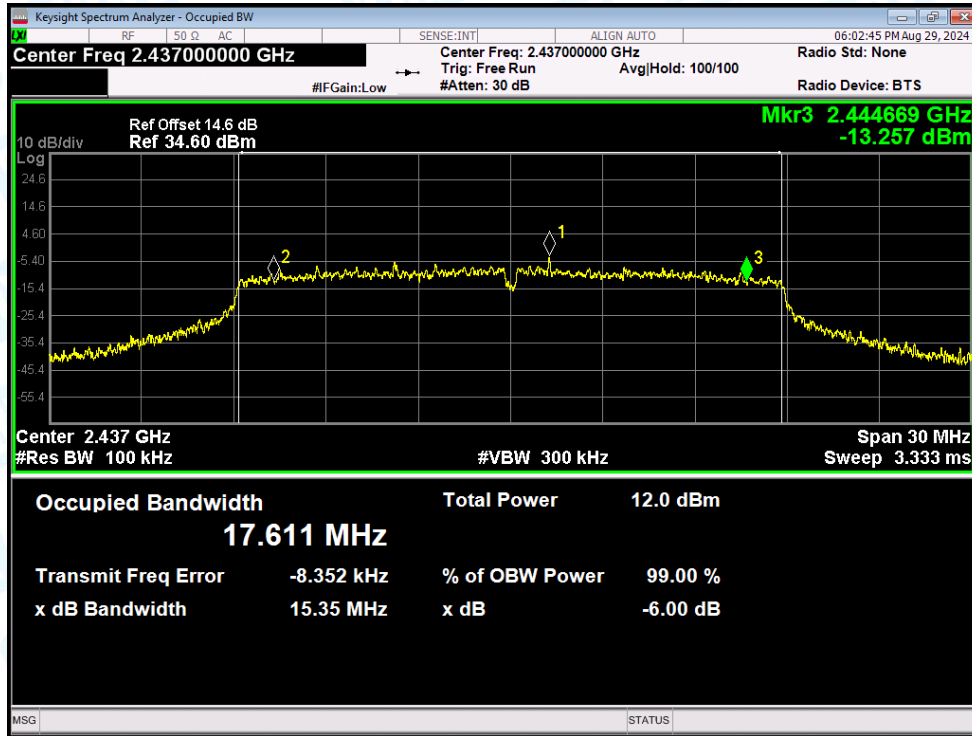
-6dB Bandwidth NVNT b 2462MHz Ant1



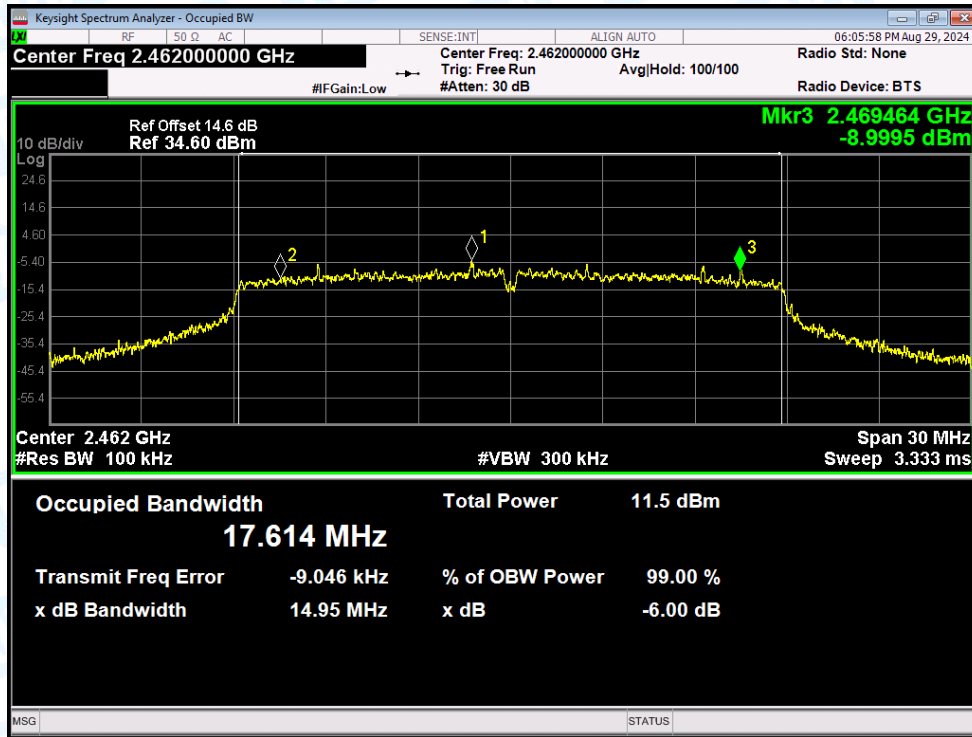
-6dB Bandwidth NVNT g 2412MHz Ant1



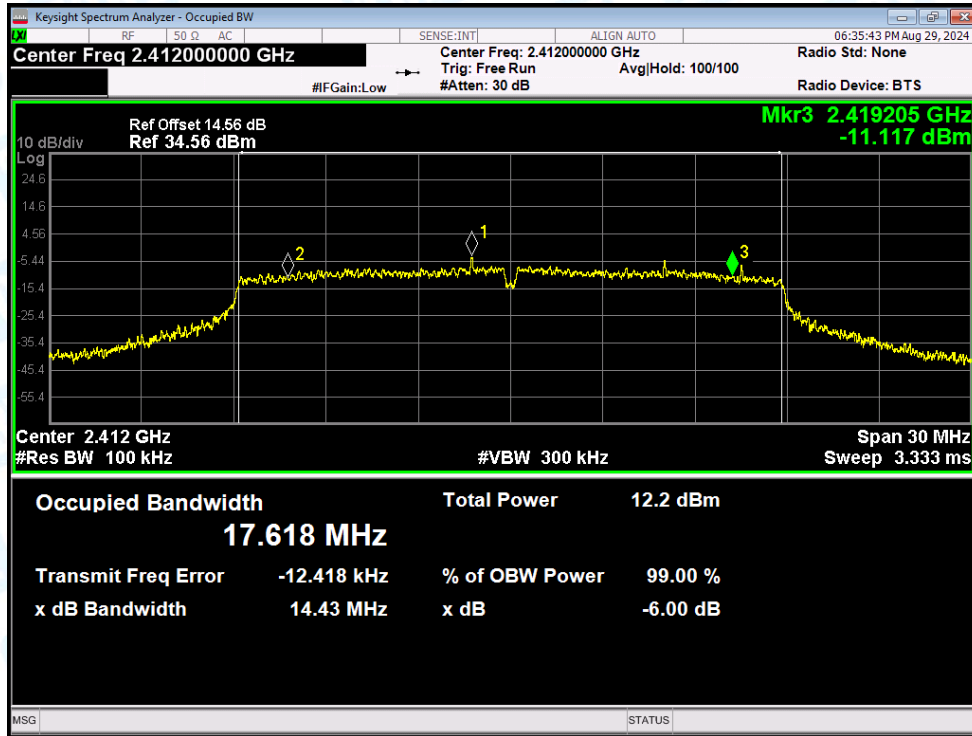
-6dB Bandwidth NVNT g 2437MHz Ant1



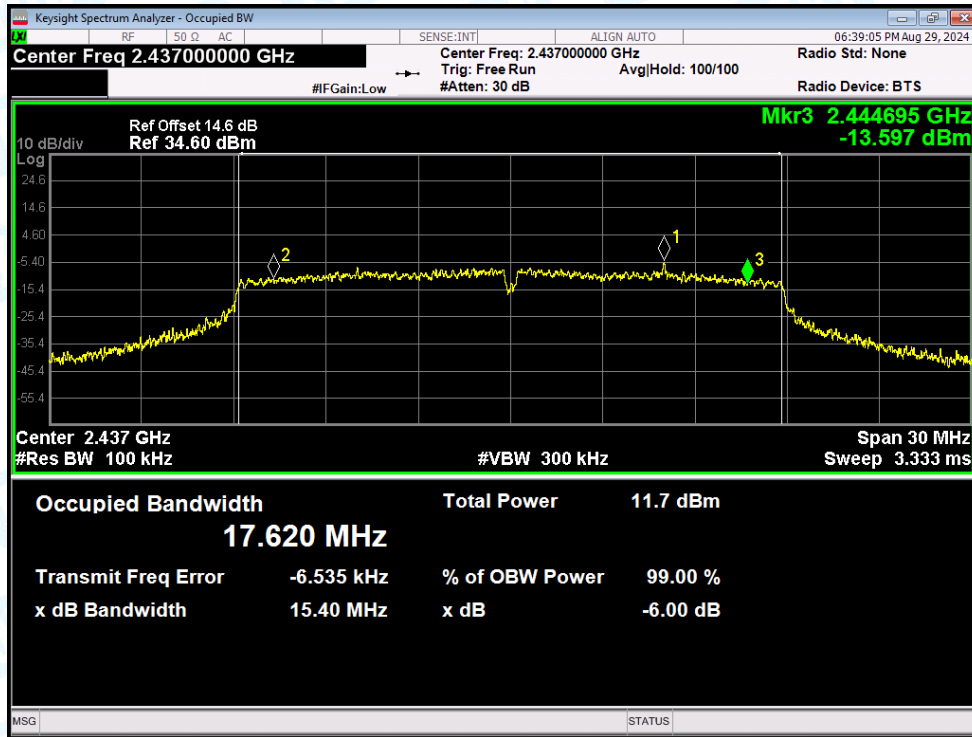
-6dB Bandwidth NVNT g 2462MHz Ant1



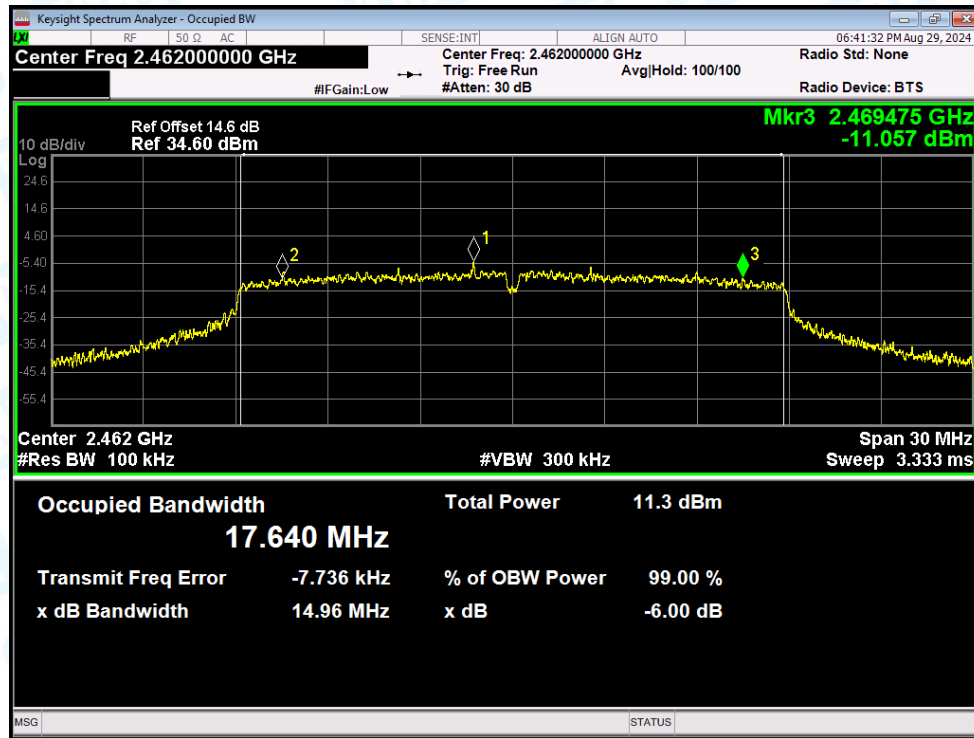
-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



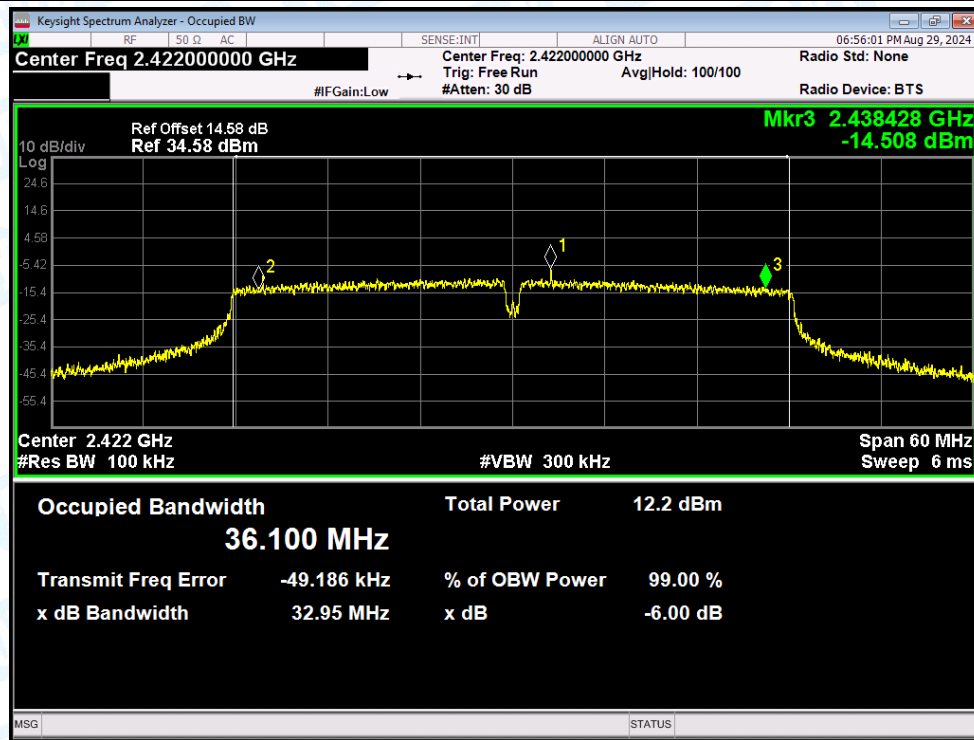
-6dB Bandwidth NVNT n(HT20) 2437MHz Ant1



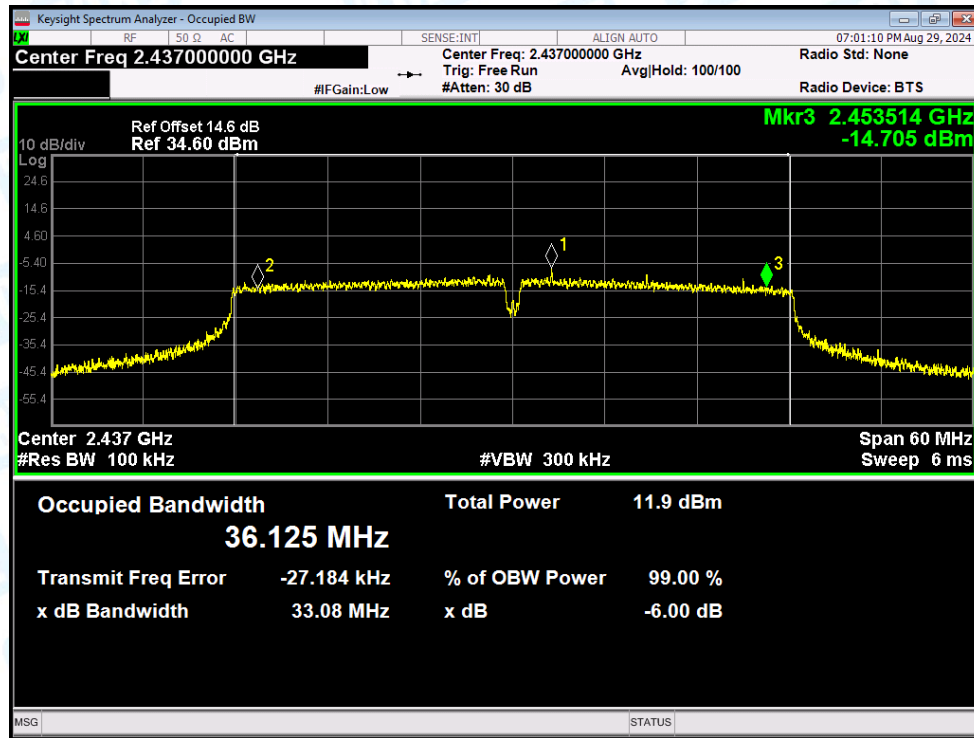
-6dB Bandwidth NVNT n(HT20) 2462MHz Ant1



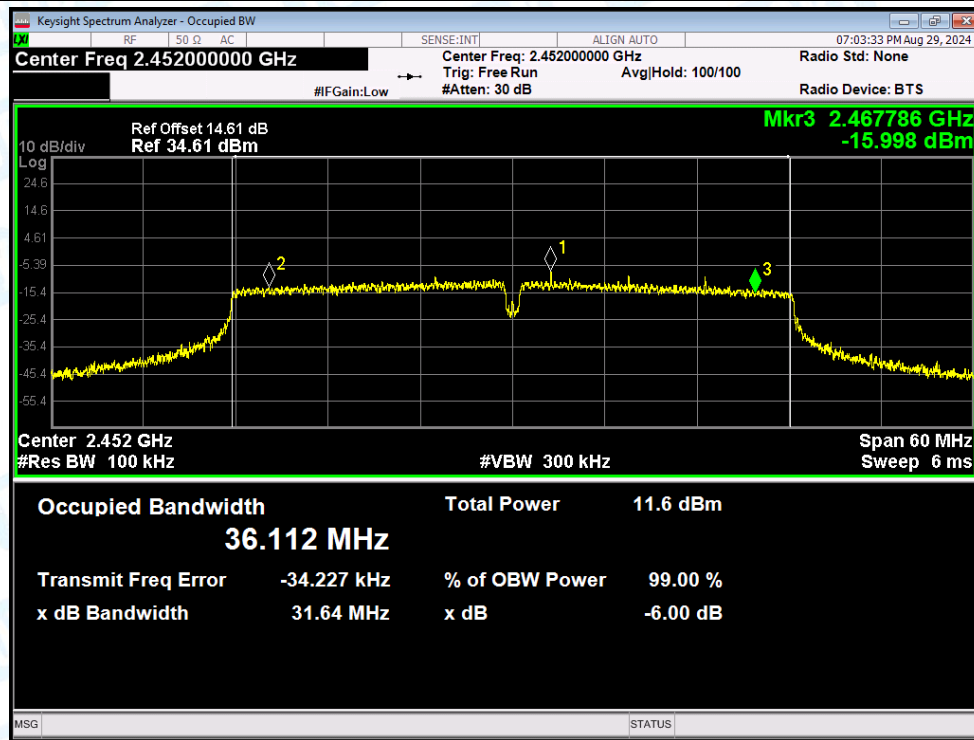
-6dB Bandwidth NVNT n(HT40) 2422MHz Ant1



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



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

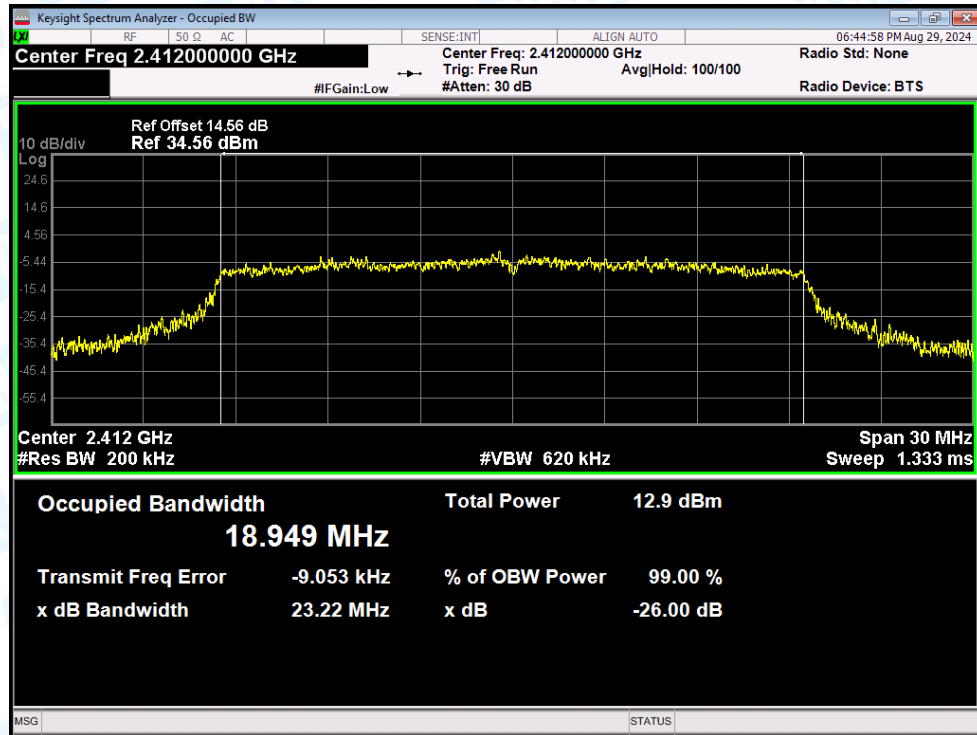


4. Occupied Channel Bandwidth

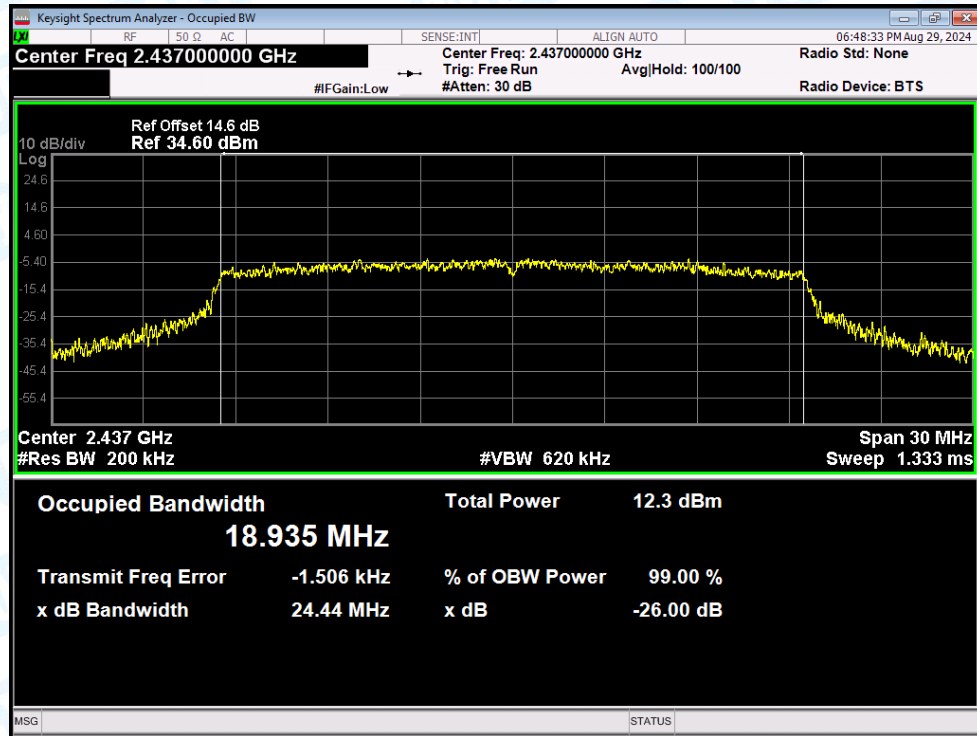
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	ax(VHT20)	2412	Ant1	18.949
NVNT	ax(VHT20)	2437	Ant1	18.935
NVNT	ax(VHT20)	2462	Ant1	18.945
NVNT	ax(VHT40)	2422	Ant1	37.739
NVNT	ax(VHT40)	2437	Ant1	37.703
NVNT	ax(VHT40)	2452	Ant1	37.721
NVNT	b	2412	Ant1	15.223
NVNT	b	2437	Ant1	15.214
NVNT	b	2462	Ant1	15.235
NVNT	g	2412	Ant1	17.743
NVNT	g	2437	Ant1	17.735
NVNT	g	2462	Ant1	17.708
NVNT	n(HT20)	2412	Ant1	17.75
NVNT	n(HT20)	2437	Ant1	17.774
NVNT	n(HT20)	2462	Ant1	17.724
NVNT	n(HT40)	2422	Ant1	36.347
NVNT	n(HT40)	2437	Ant1	36.348
NVNT	n(HT40)	2452	Ant1	36.365

Test Graphs

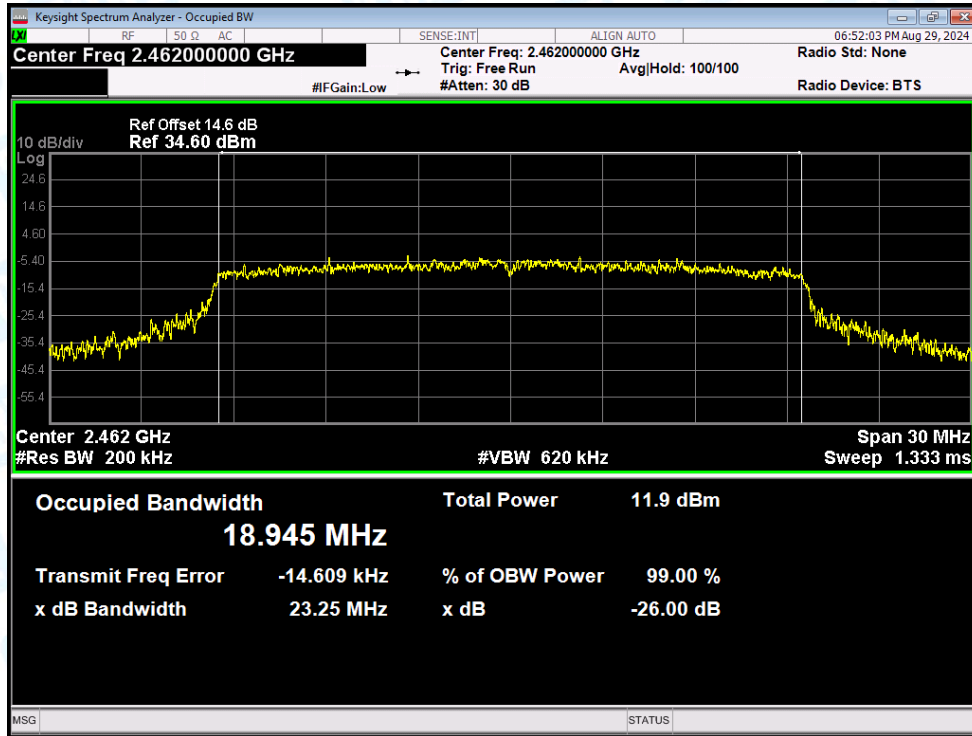
OBW NVNT ax(VHT20) 2412MHz Ant1



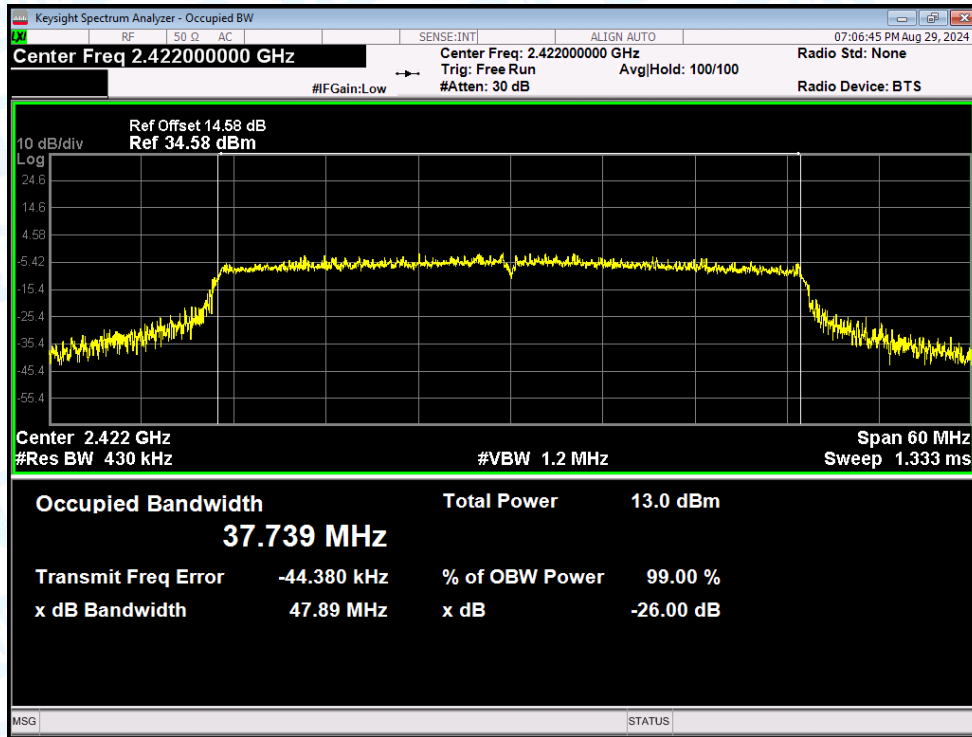
OBW NVNT ax(VHT20) 2437MHz Ant1



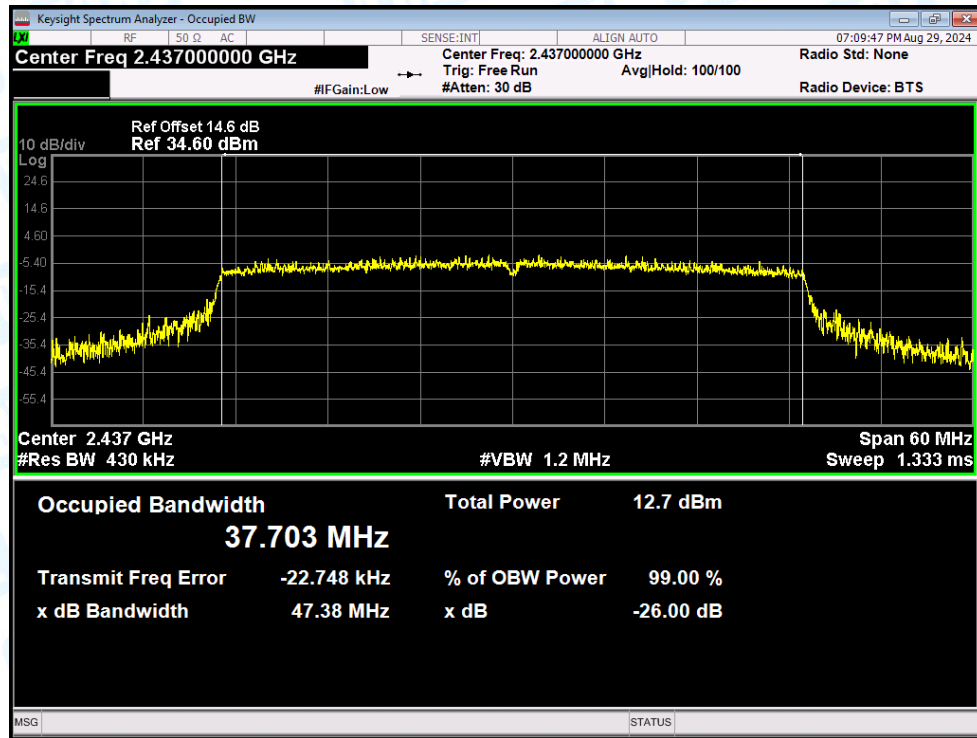
OBW NVNT ax(VHT20) 2462MHz Ant1



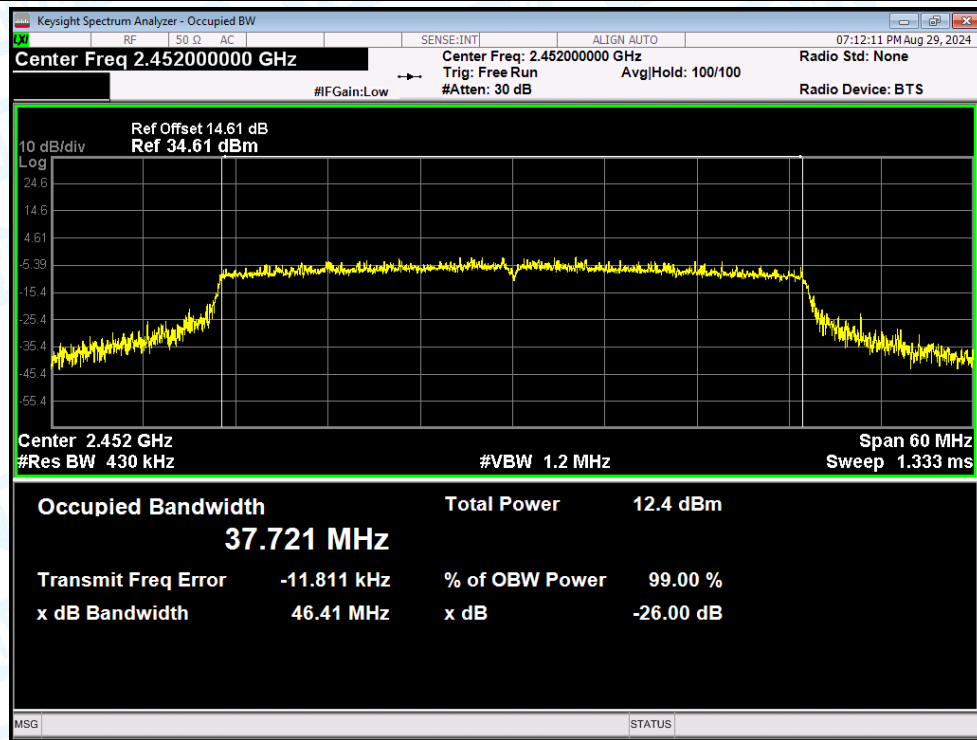
OBW NVNT ax(VHT40) 2422MHz Ant1



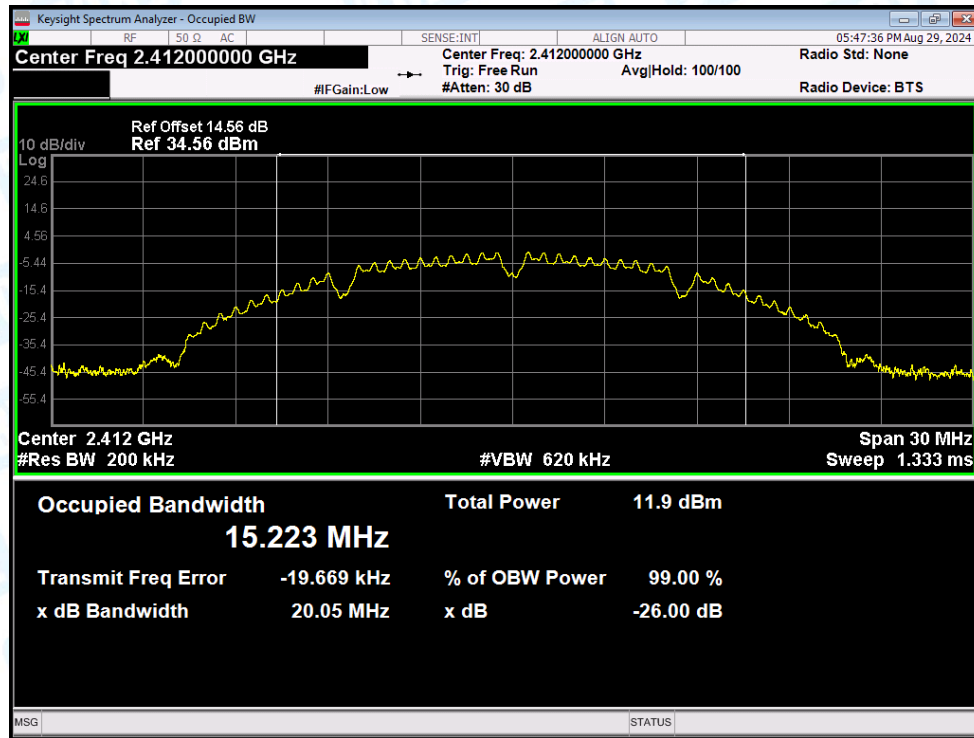
OBW NVNT ax(VHT40) 2437MHz Ant1



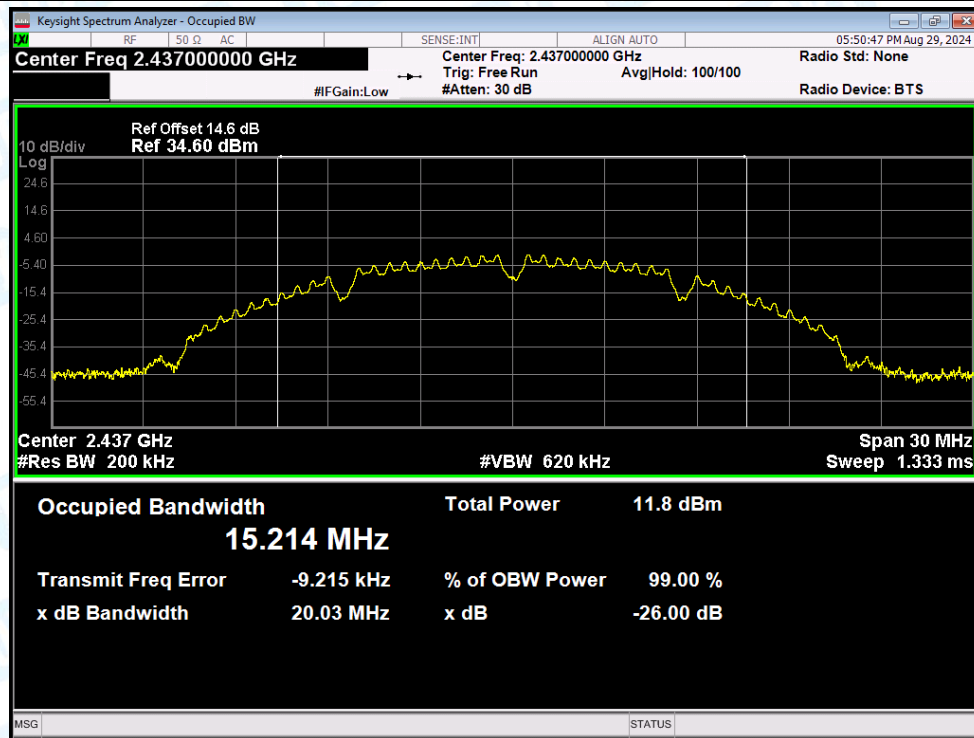
OBW NVNT ax(VHT40) 2452MHz Ant1



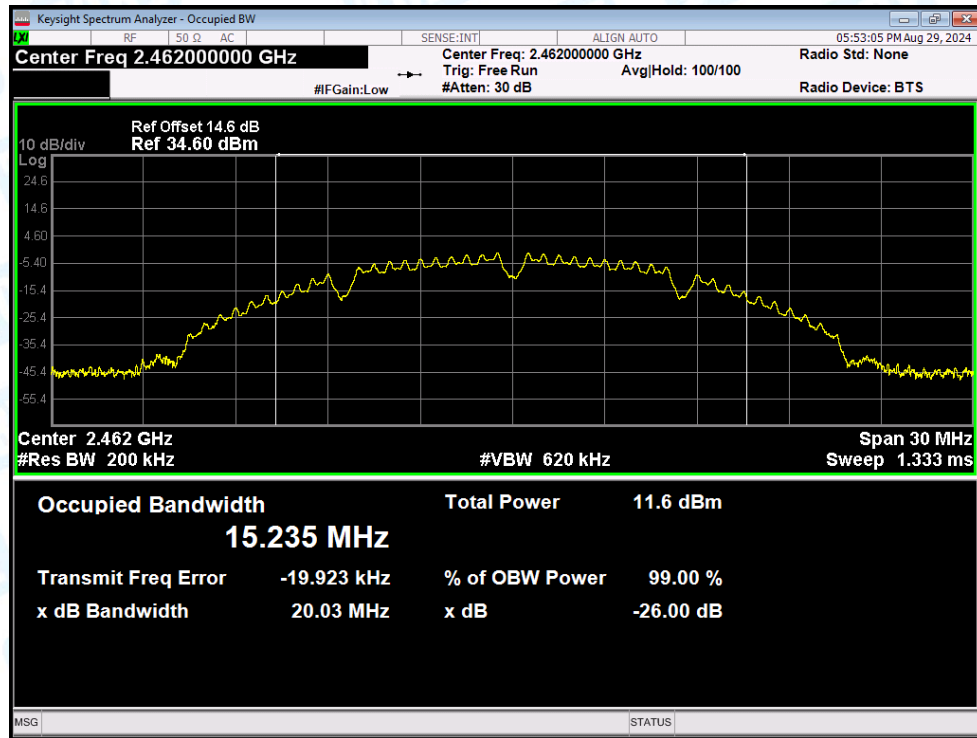
OBW NVNT b 2412MHz Ant1



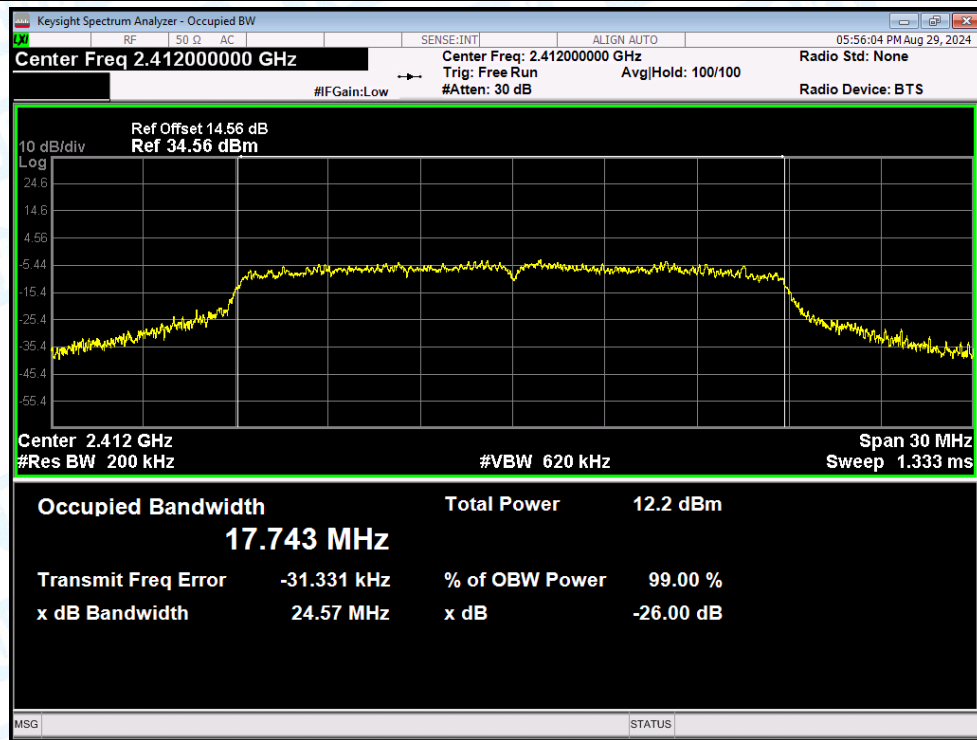
OBW NVNT b 2437MHz Ant1



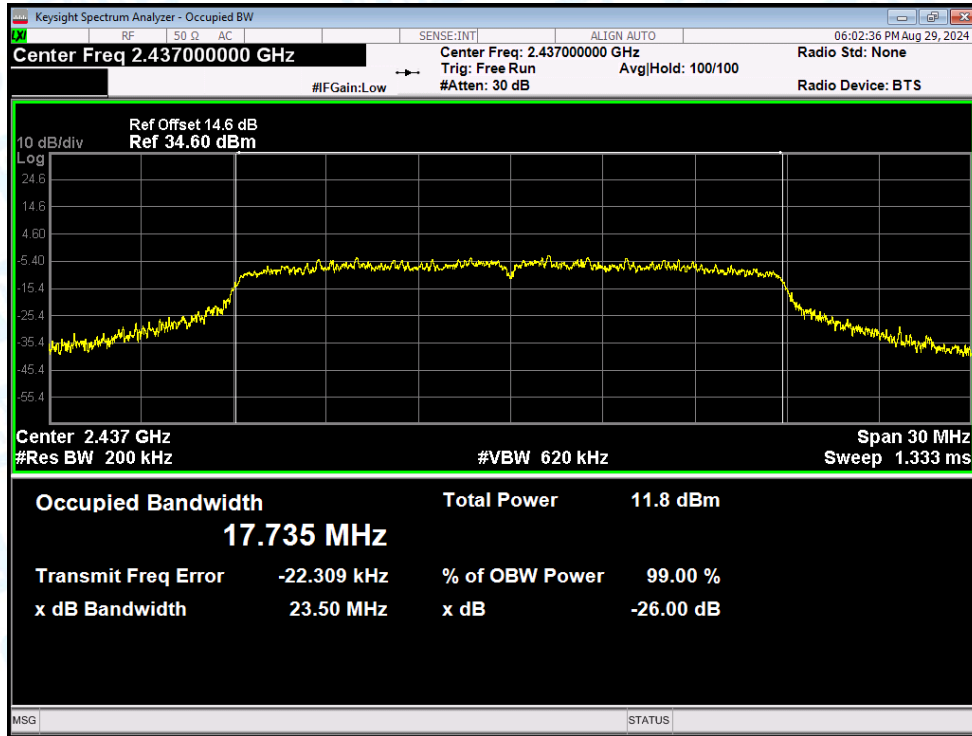
OBW NVNT b 2462MHz Ant1



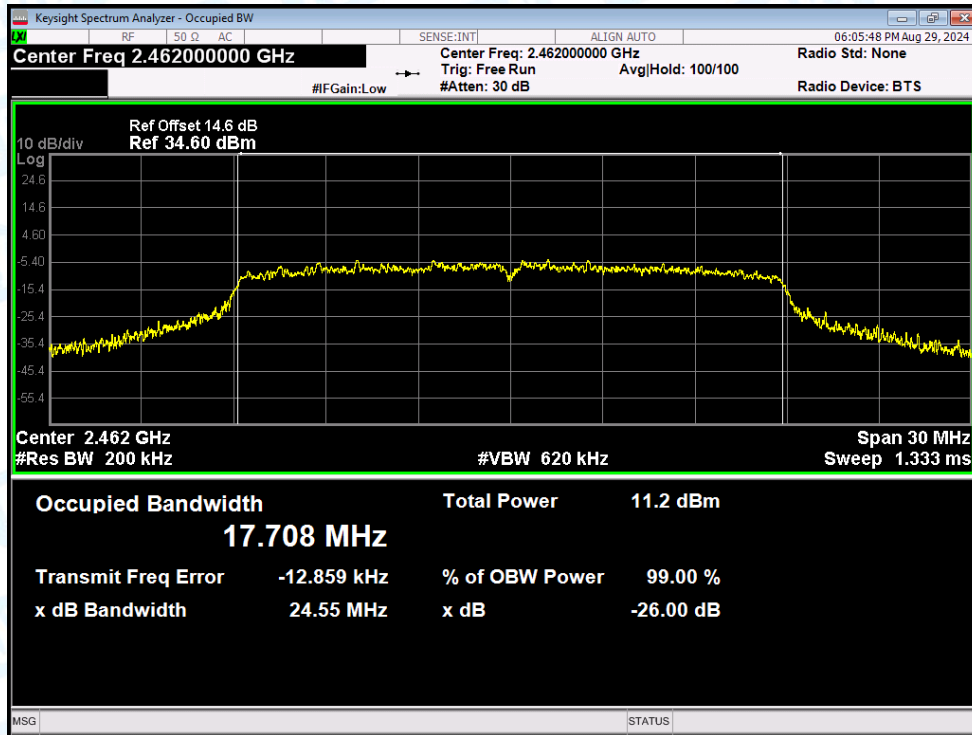
OBW NVNT g 2412MHz Ant1



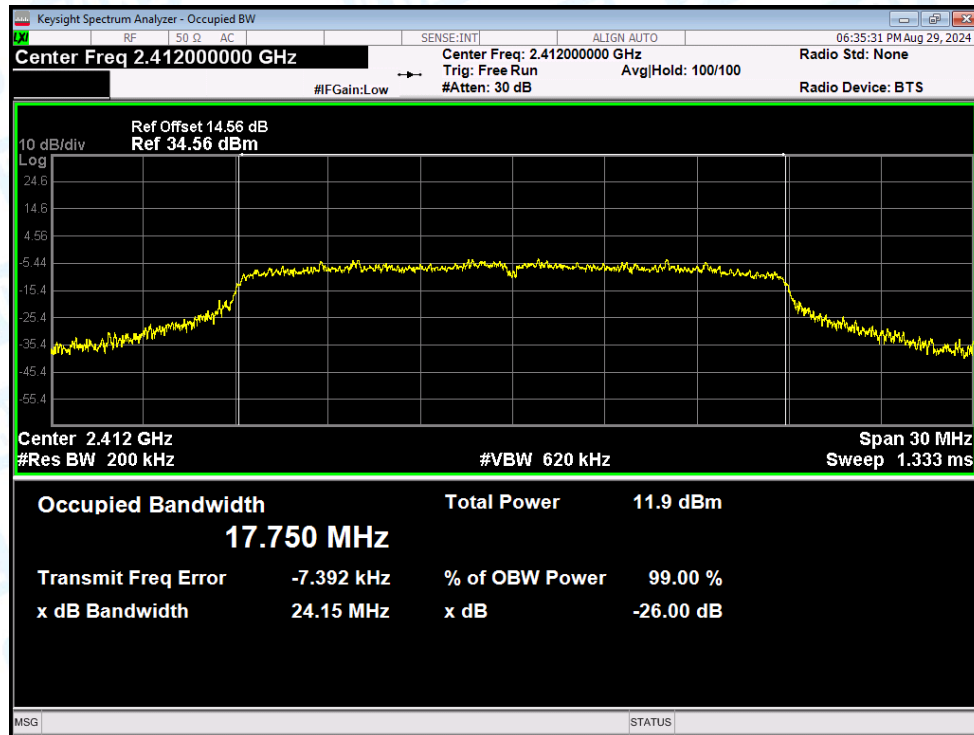
OBW NVNT g 2437MHz Ant1



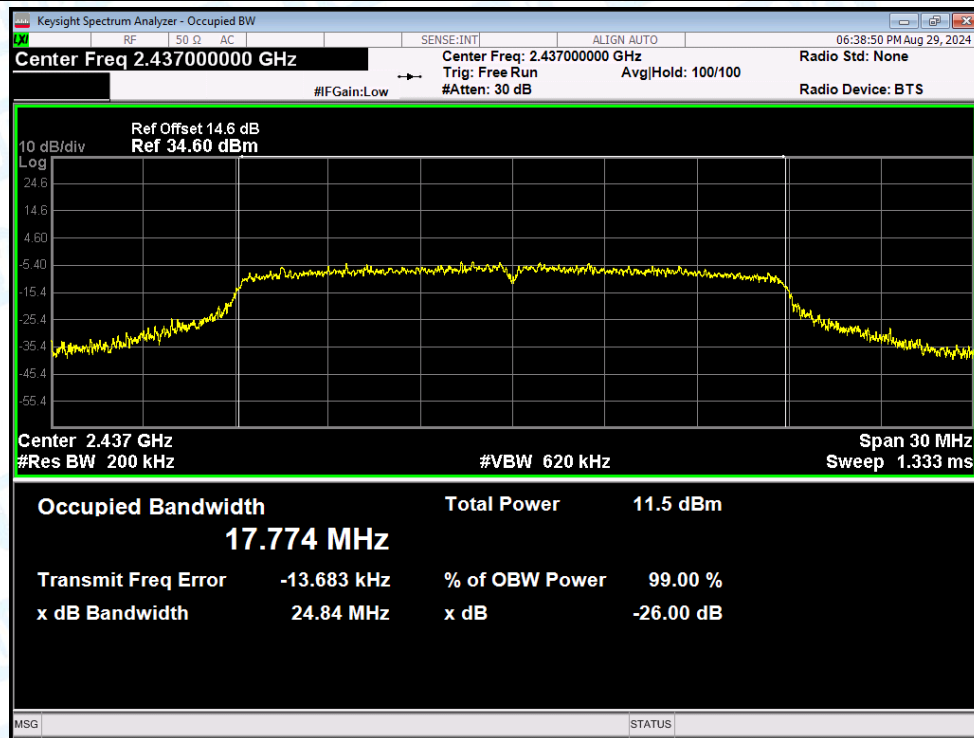
OBW NVNT g 2462MHz Ant1



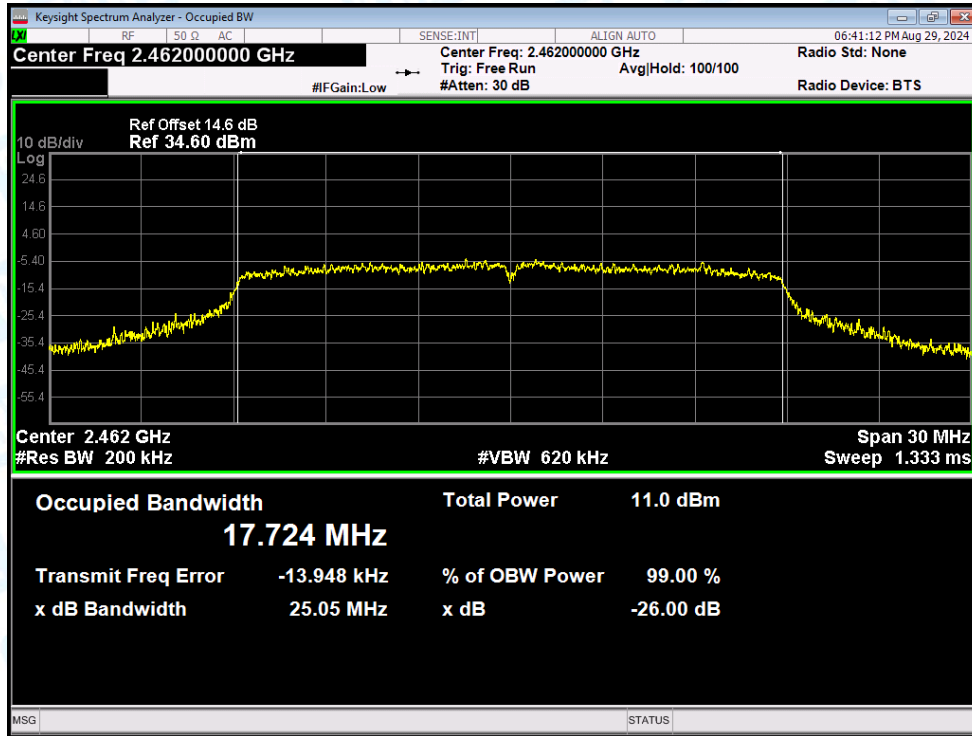
OBW NVNT n(HT20) 2412MHz Ant1



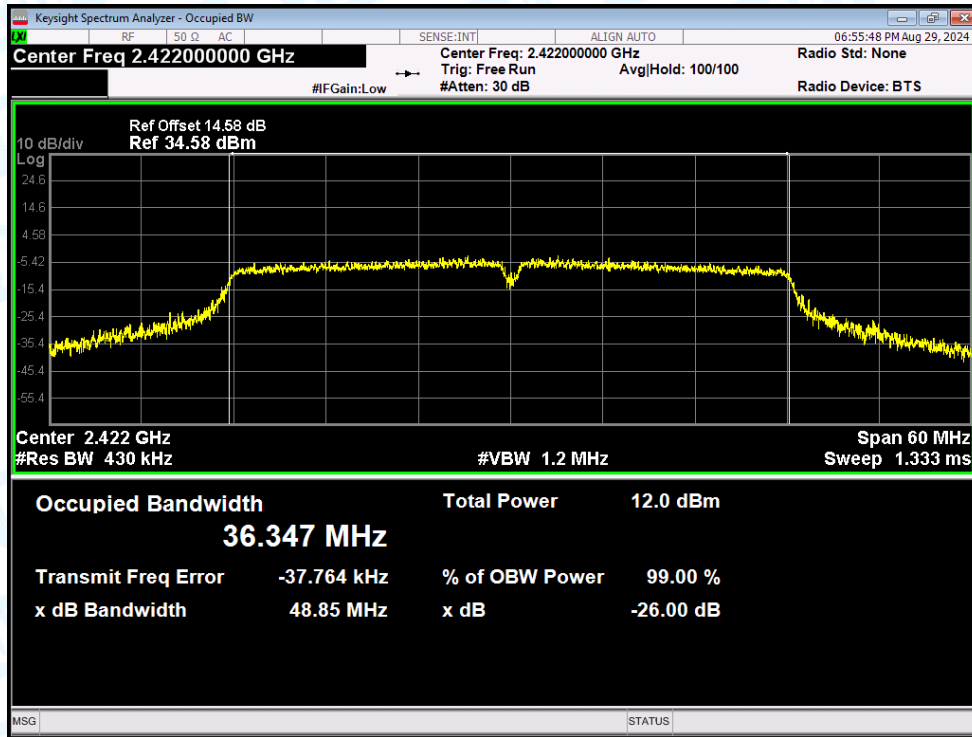
OBW NVNT n(HT20) 2437MHz Ant1



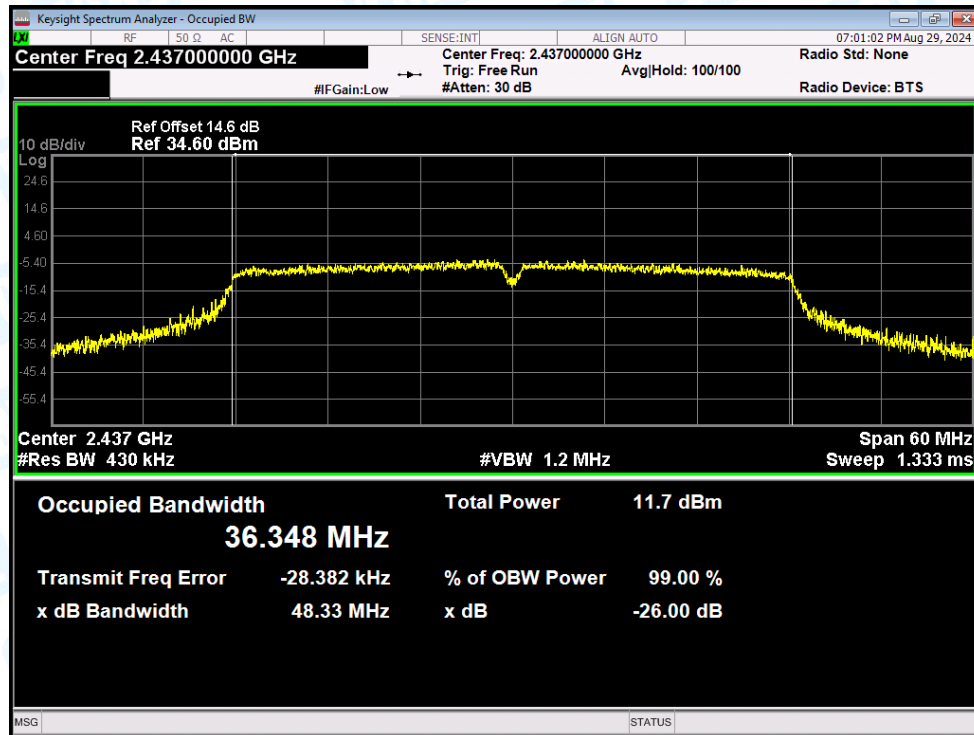
OBW NVNT n(HT20) 2462MHz Ant1



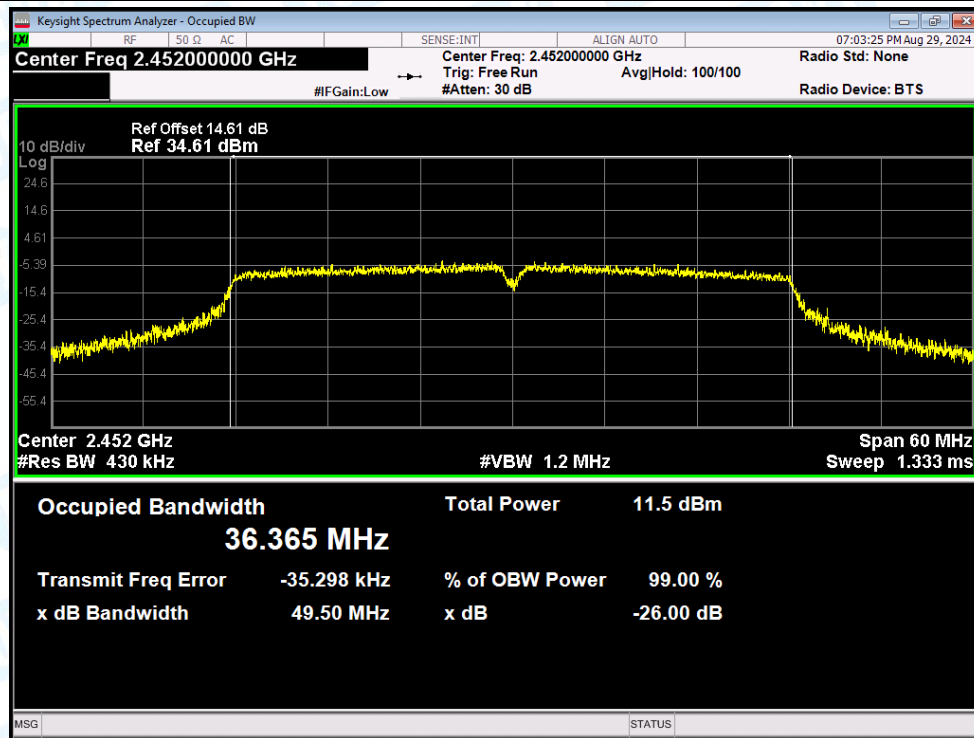
OBW NVNT n(HT40) 2422MHz Ant1



OBW NVNT n(HT40) 2437MHz Ant1



OBW NVNT n(HT40) 2452MHz Ant1



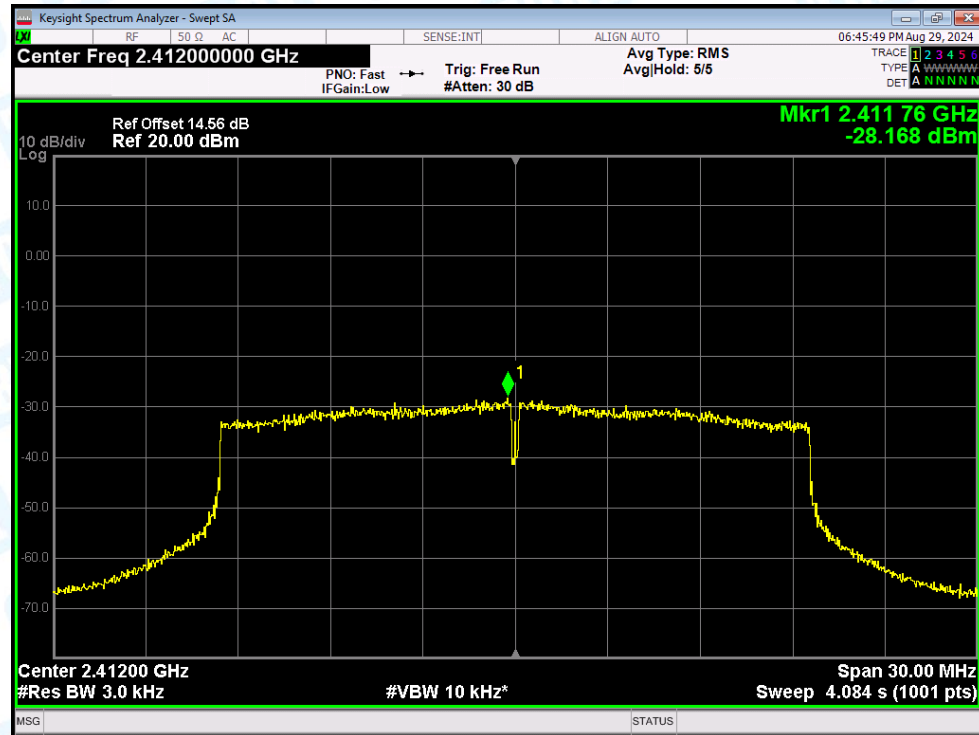
5. Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	ax(VHT20)	2412	Ant1	-28.168	8	Pass
NVNT	ax(VHT20)	2437	Ant1	-28.773	8	Pass
NVNT	ax(VHT20)	2462	Ant1	-29.91	8	Pass
NVNT	ax(VHT40)	2422	Ant1	-32.869	8	Pass
NVNT	ax(VHT40)	2437	Ant1	-32.975	8	Pass
NVNT	ax(VHT40)	2452	Ant1	-33.283	8	Pass
NVNT	b	2412	Ant1	-24.947	8	Pass
NVNT	b	2437	Ant1	-25.028	8	Pass
NVNT	b	2462	Ant1	-25.171	8	Pass
NVNT	g	2412	Ant1	-26.983	8	Pass
NVNT	g	2437	Ant1	-27.71	8	Pass
NVNT	g	2462	Ant1	-28.11	8	Pass
NVNT	n(HT20)	2412	Ant1	-26.785	8	Pass
NVNT	n(HT20)	2437	Ant1	-27.636	8	Pass
NVNT	n(HT20)	2462	Ant1	-28.184	8	Pass
NVNT	n(HT40)	2422	Ant1	-31.113	8	Pass
NVNT	n(HT40)	2437	Ant1	-31.508	8	Pass
NVNT	n(HT40)	2452	Ant1	-32.032	8	Pass

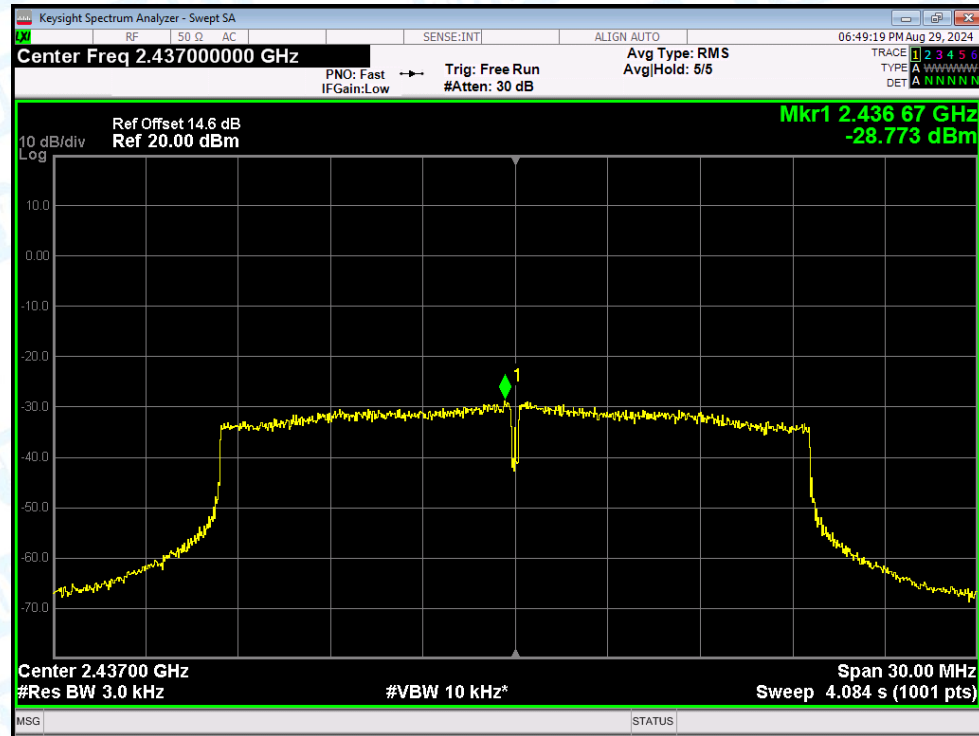
Note: The Duty Cycle Factor is compensated in the graph.

Test Graphs

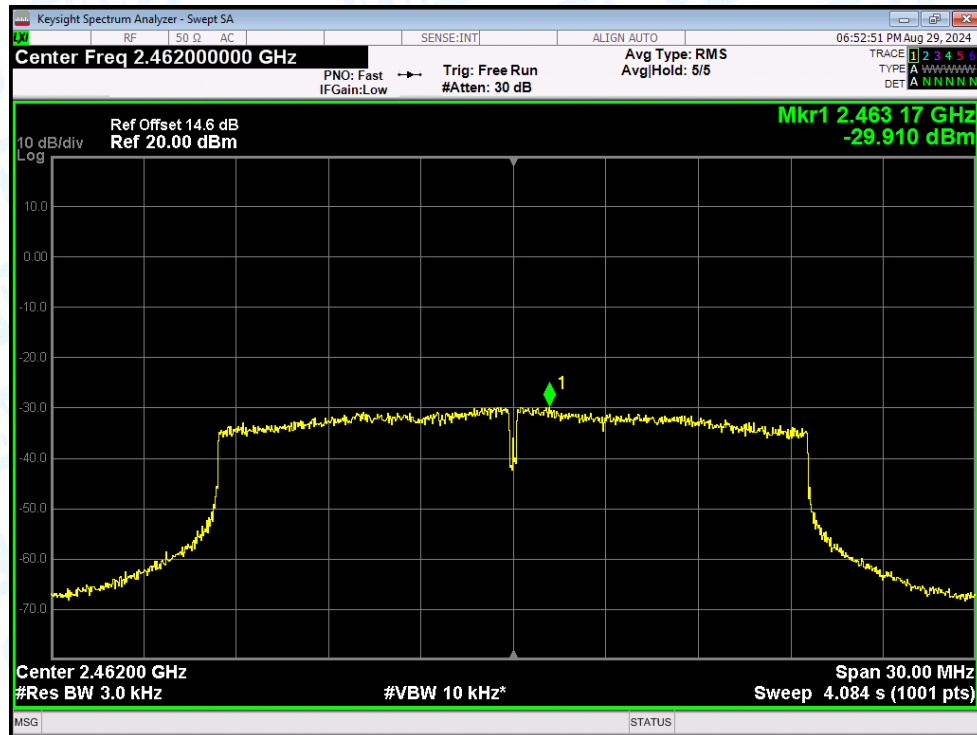
PSD NVNT ax(VHT20) 2412MHz Ant1



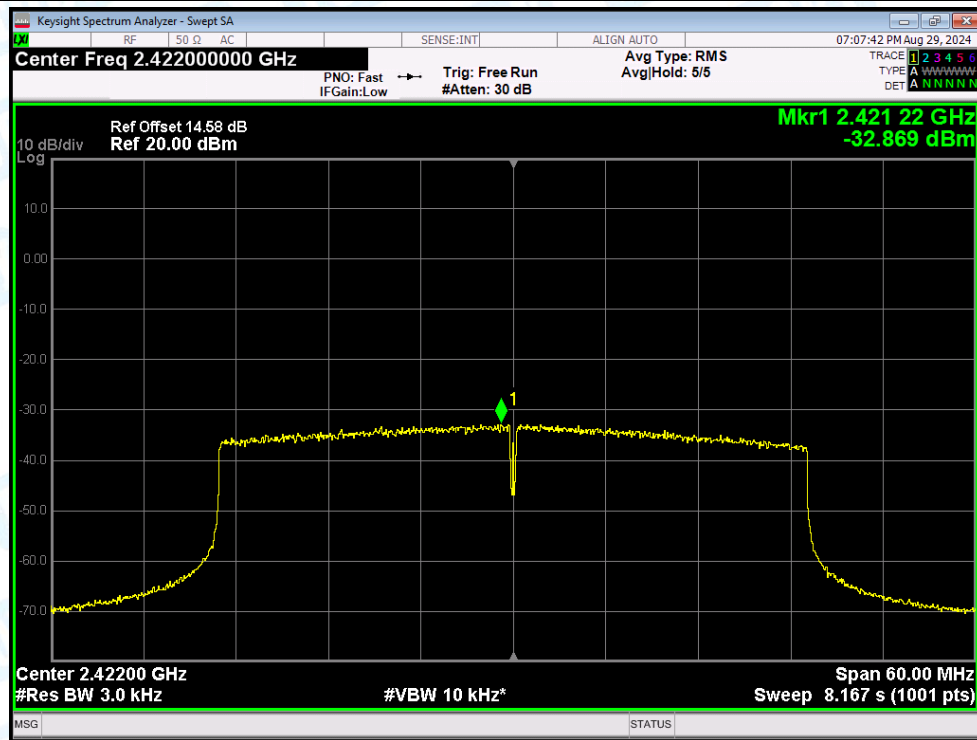
PSD NVNT ax(VHT20) 2437MHz Ant1



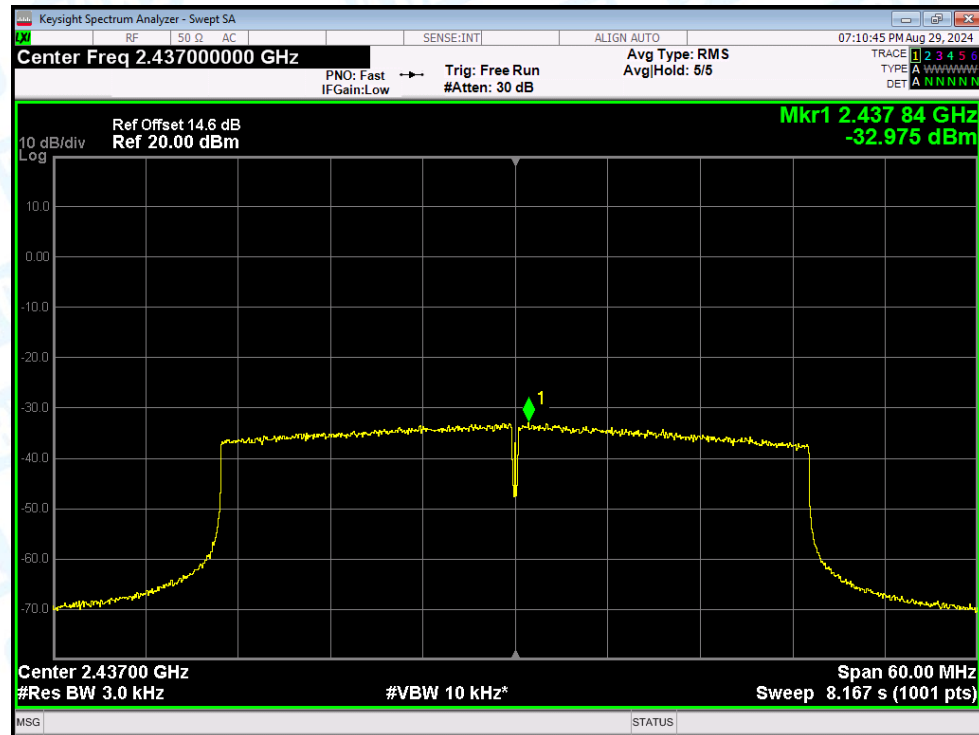
PSD NVNT ax(VHT20) 2462MHz Ant1



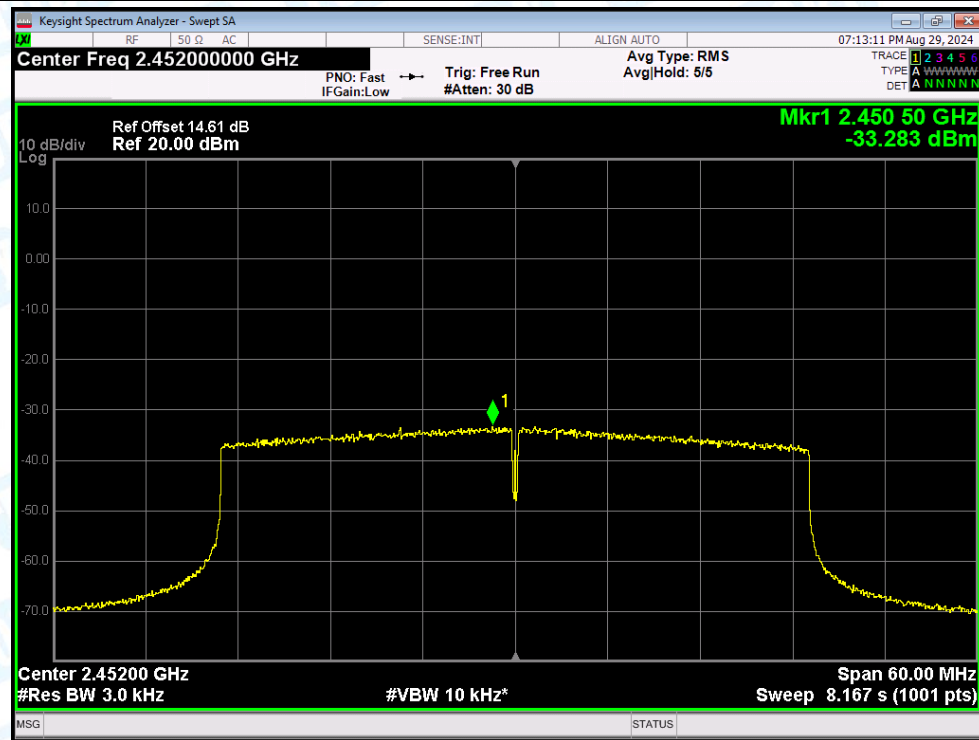
PSD NVNT ax(VHT40) 2422MHz Ant1



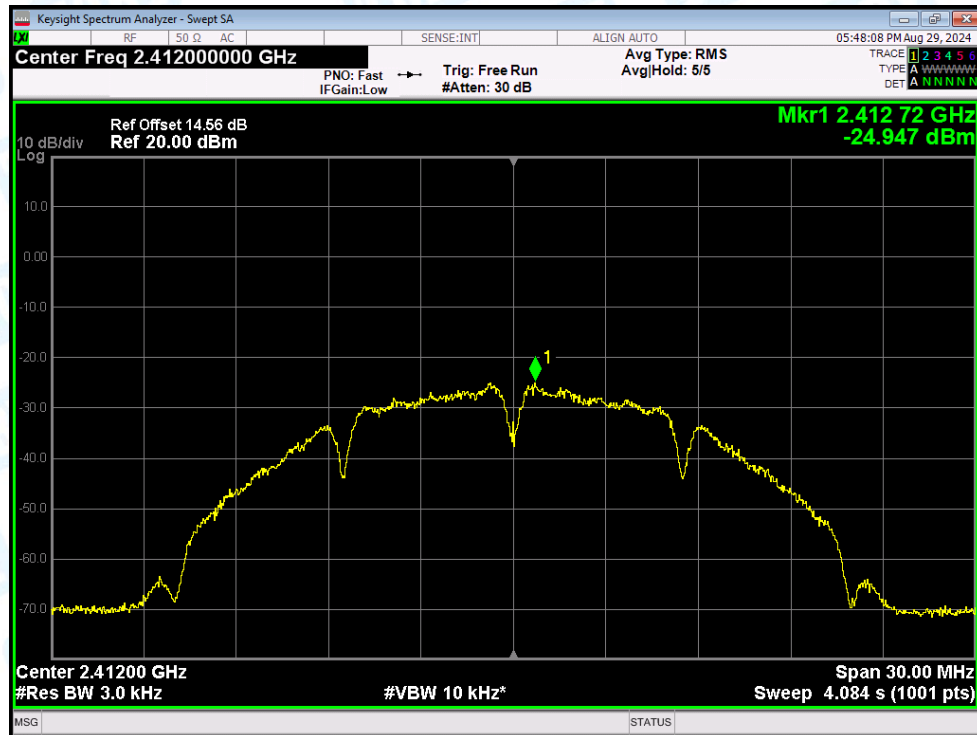
PSD NVNT ax(VHT40) 2437MHz Ant1



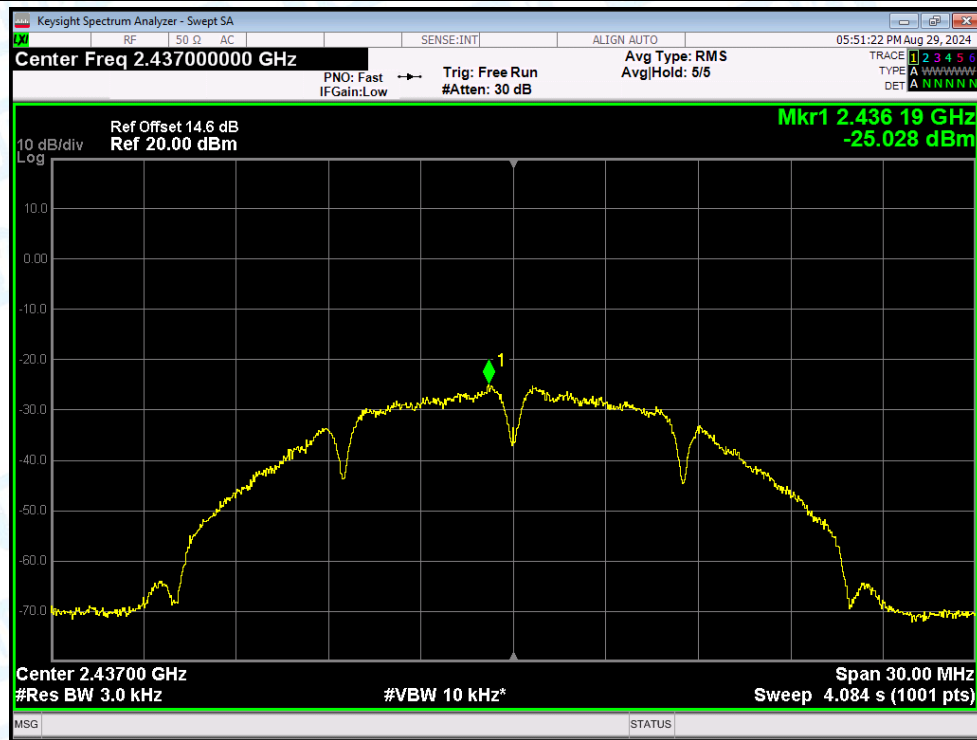
PSD NVNT ax(VHT40) 2452MHz Ant1



PSD NVNT b 2412MHz Ant1



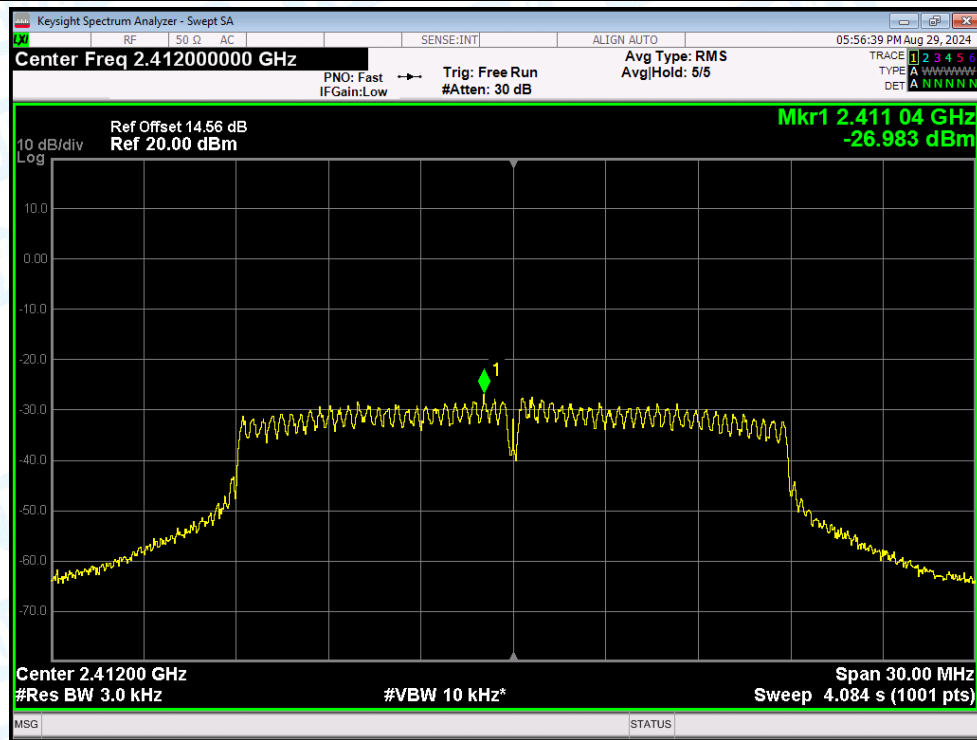
PSD NVNT b 2437MHz Ant1



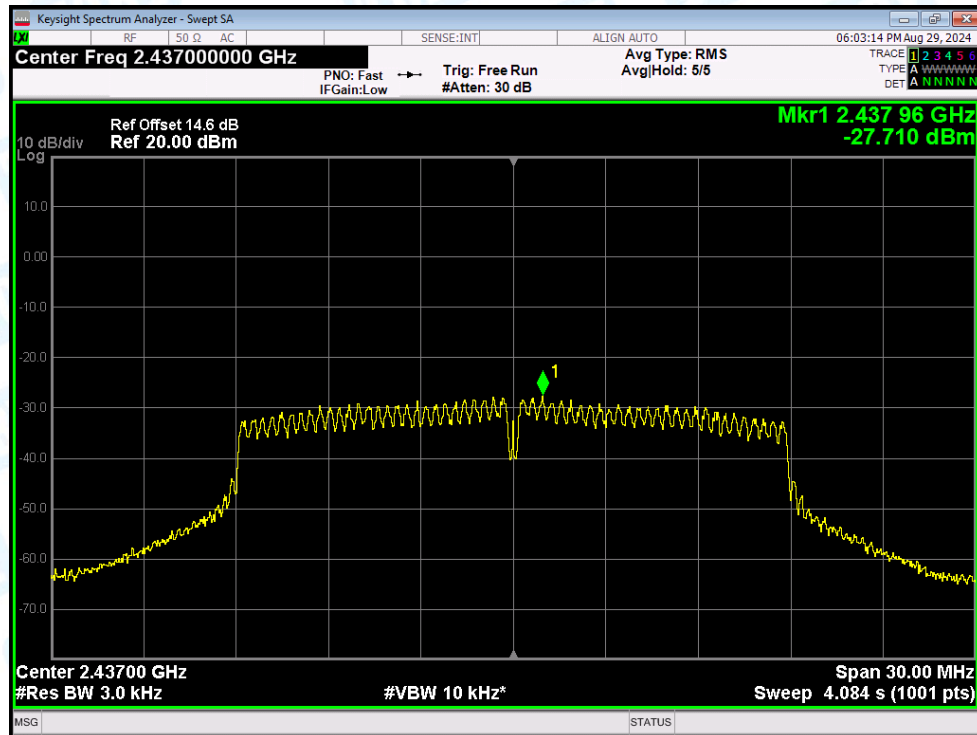
PSD NVNT b 2462MHz Ant1



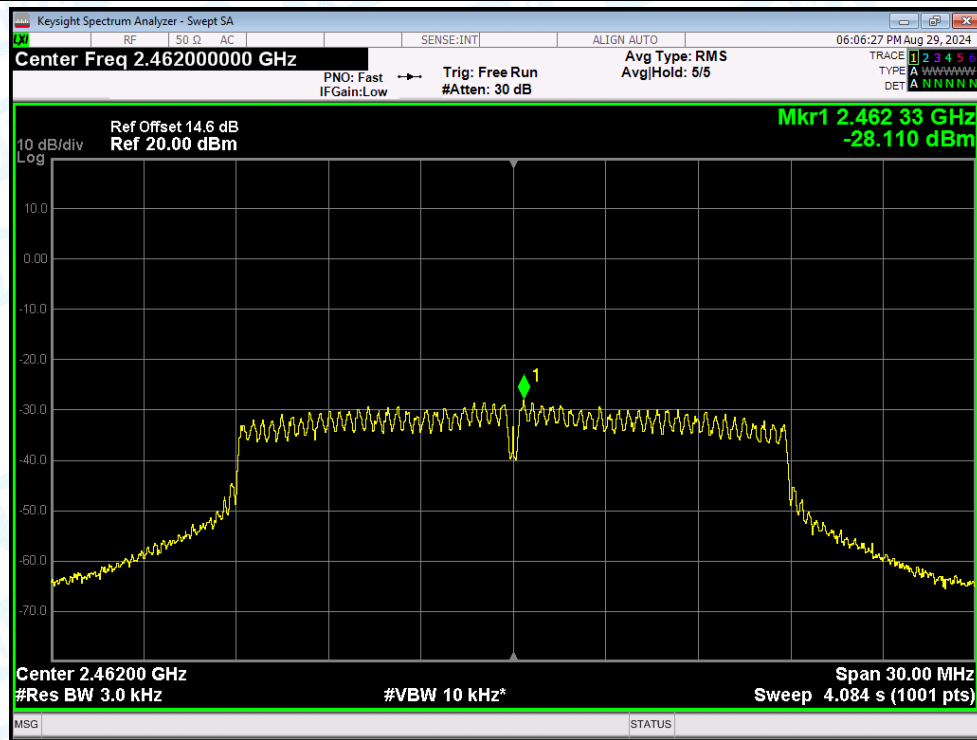
PSD NVNT g 2412MHz Ant1



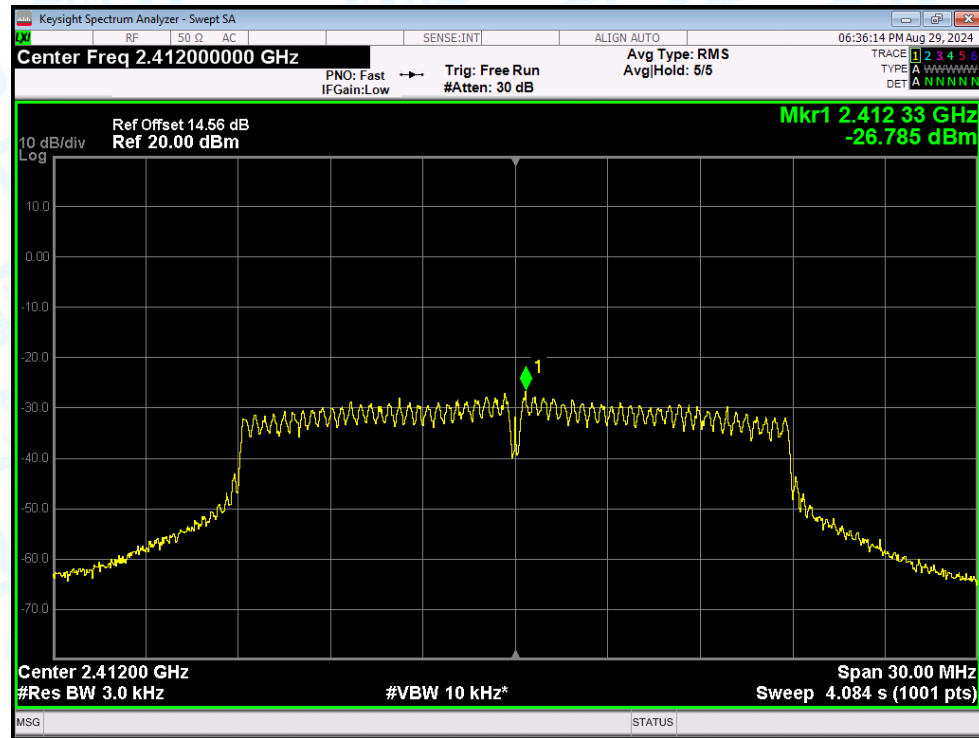
PSD NVNT g 2437MHz Ant1



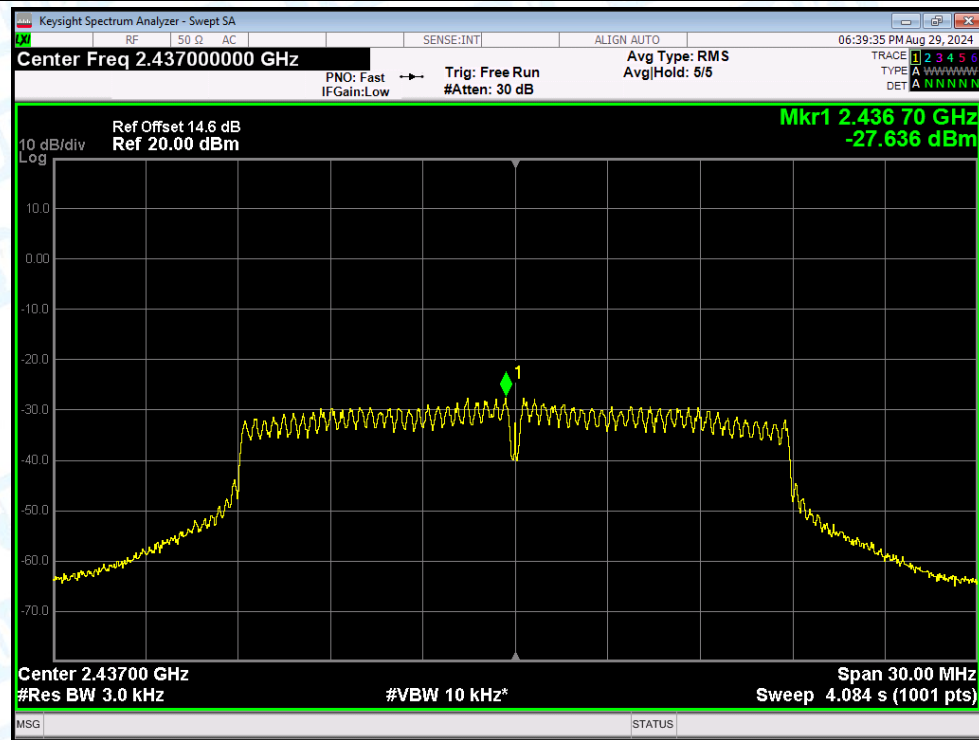
PSD NVNT g 2462MHz Ant1



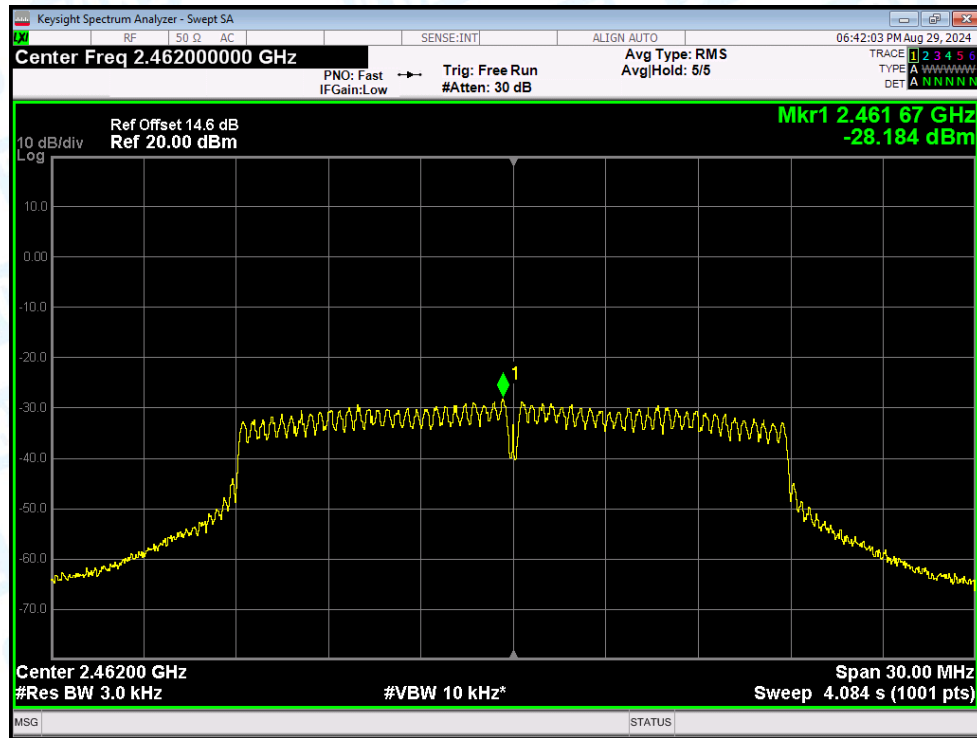
PSD NVNT n(HT20) 2412MHz Ant1



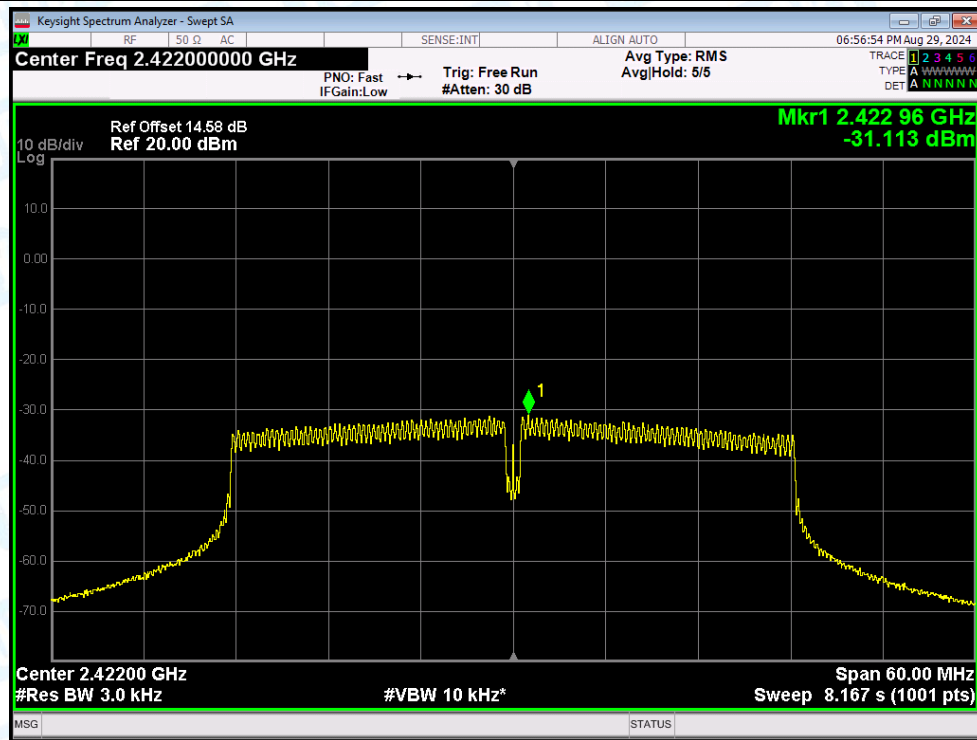
PSD NVNT n(HT20) 2437MHz Ant1



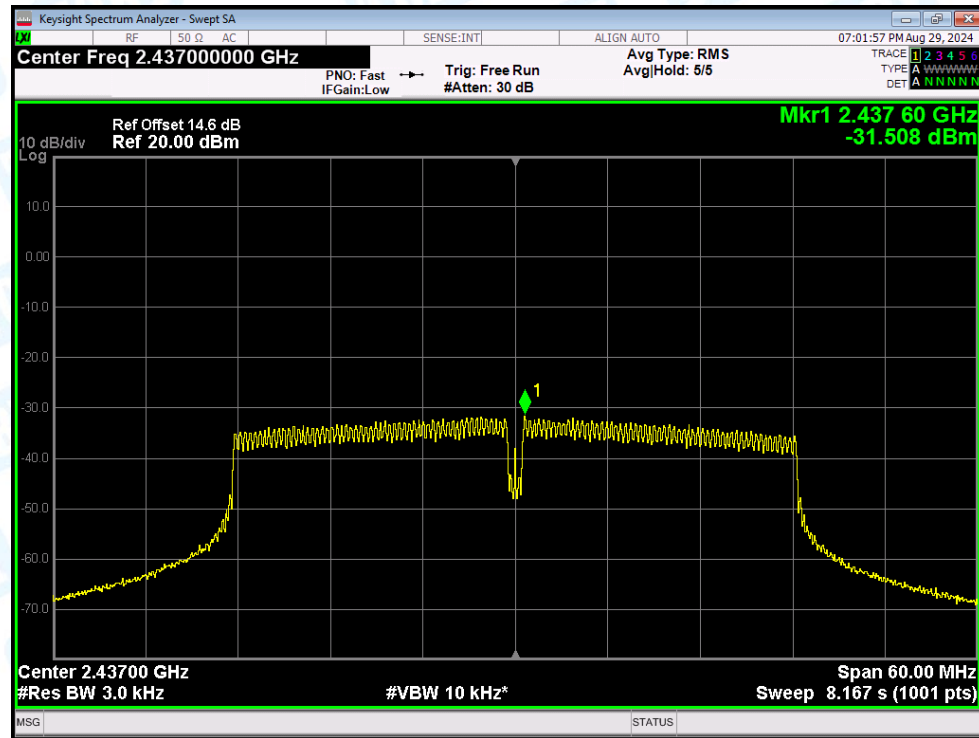
PSD NVNT n(HT20) 2462MHz Ant1



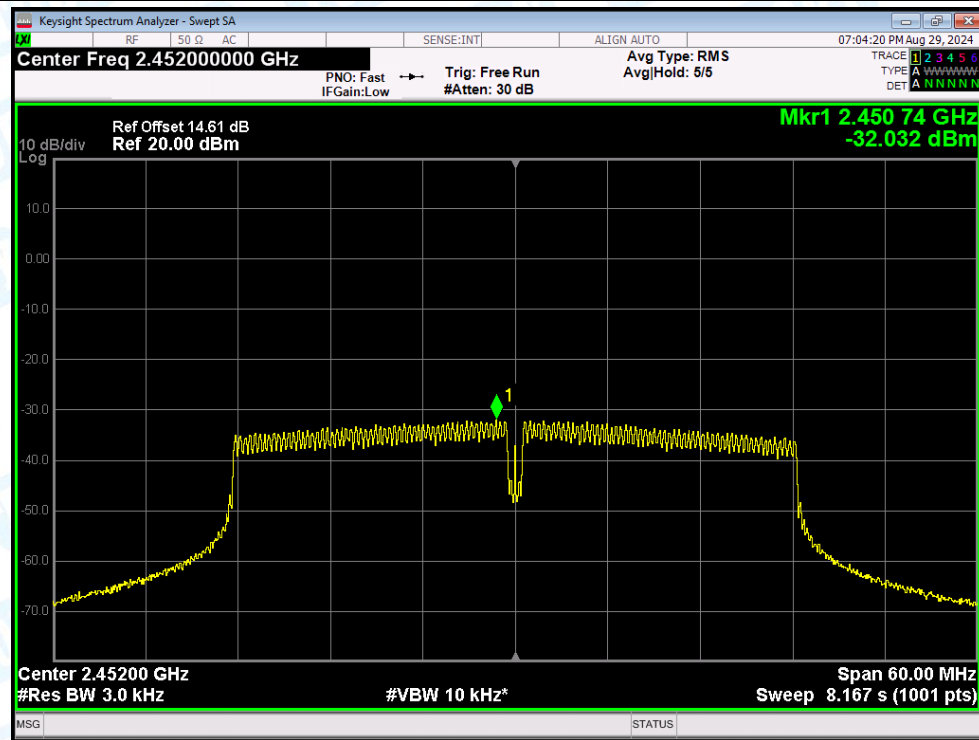
PSD NVNT n(HT40) 2422MHz Ant1



PSD NVNT n(HT40) 2437MHz Ant1



PSD NVNT n(HT40) 2452MHz Ant1

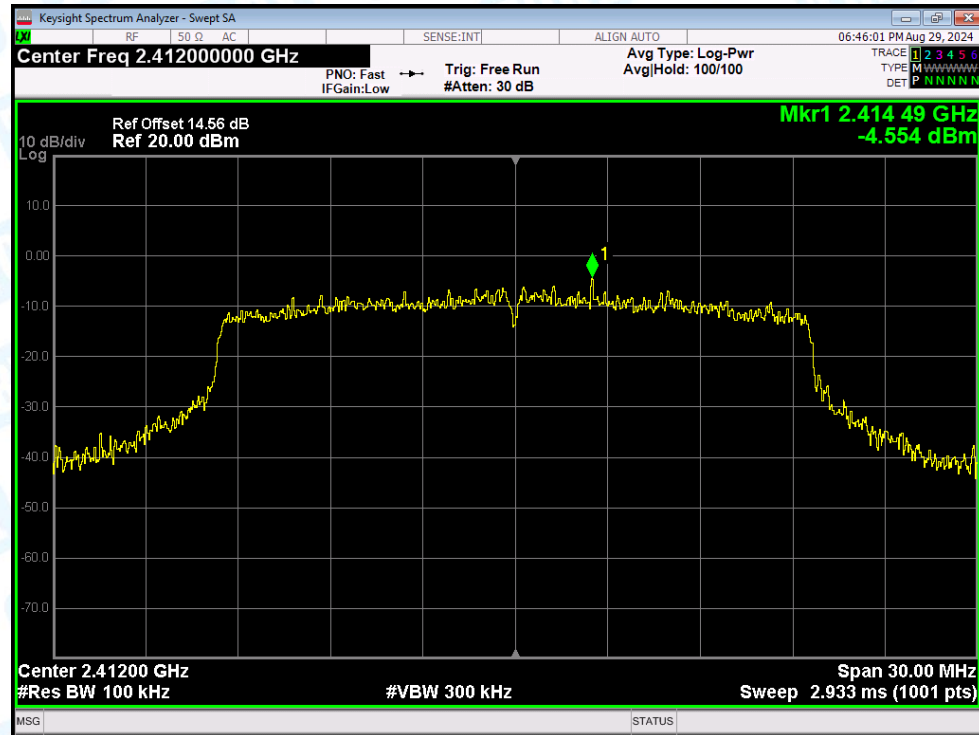


6. Band Edge

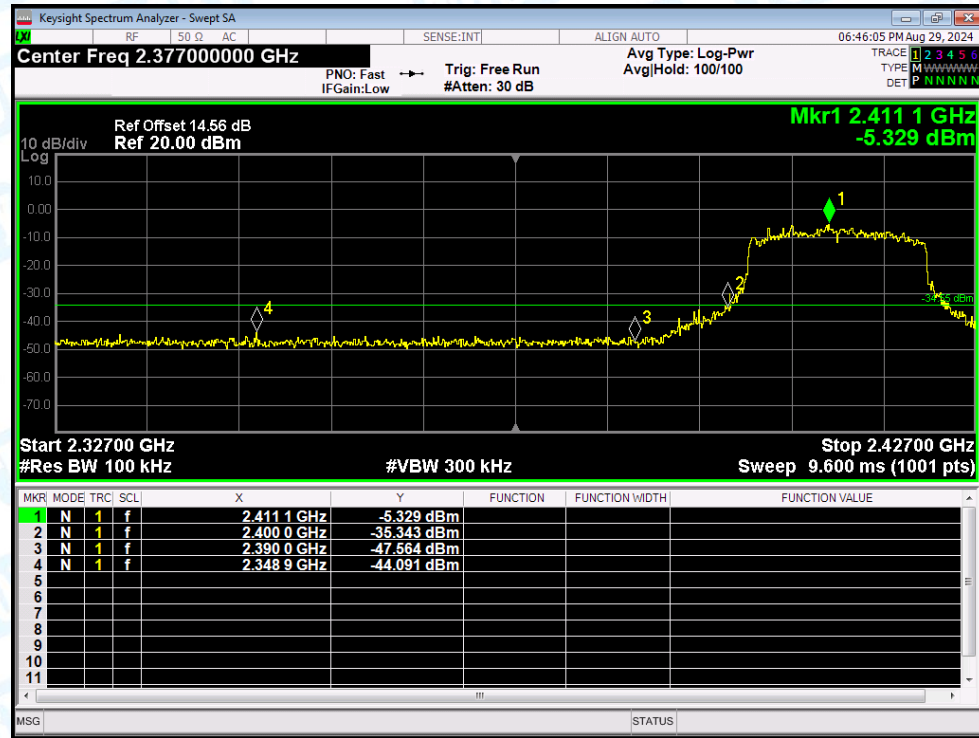
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	ax(VHT20)	2412	Ant1	-39.54	-30	Pass
NVNT	ax(VHT20)	2462	Ant1	-39.88	-30	Pass
NVNT	ax(VHT40)	2422	Ant1	-36.97	-30	Pass
NVNT	ax(VHT40)	2452	Ant1	-36.56	-30	Pass
NVNT	b	2412	Ant1	-43.00	-30	Pass
NVNT	b	2462	Ant1	-42.64	-30	Pass
NVNT	g	2412	Ant1	-40.38	-30	Pass
NVNT	g	2462	Ant1	-38.74	-30	Pass
NVNT	n(HT20)	2412	Ant1	-39.05	-30	Pass
NVNT	n(HT20)	2462	Ant1	-38.29	-30	Pass
NVNT	n(HT40)	2422	Ant1	-34.80	-30	Pass
NVNT	n(HT40)	2452	Ant1	-35.46	-30	Pass

Test Graphs

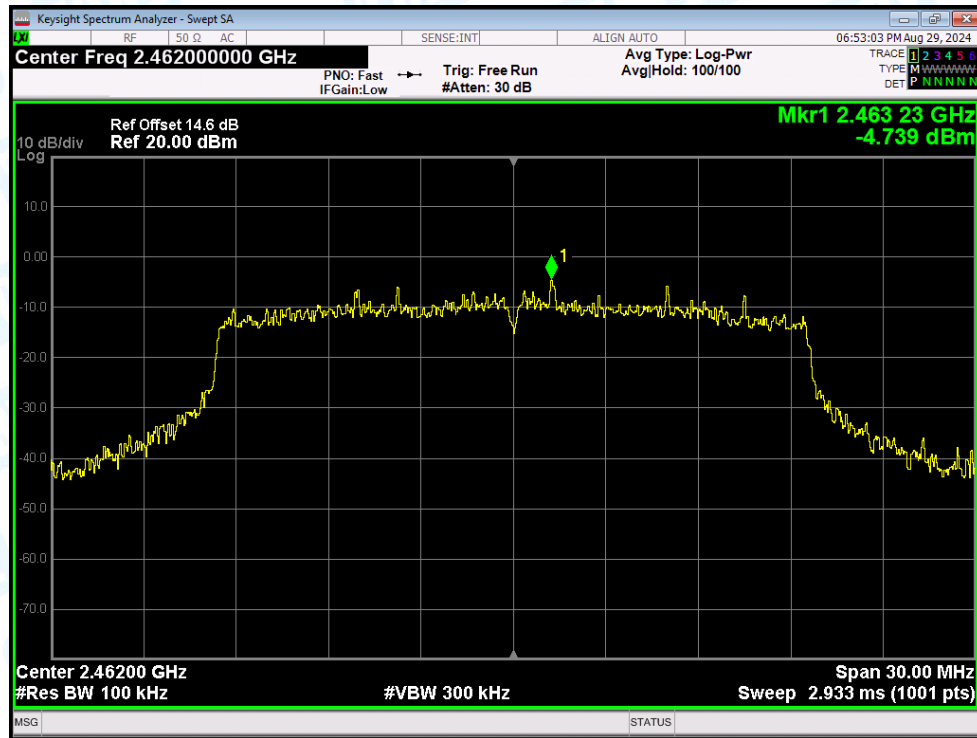
Band Edge NVNT ax(VHT20) 2412MHz Ant1 Ref



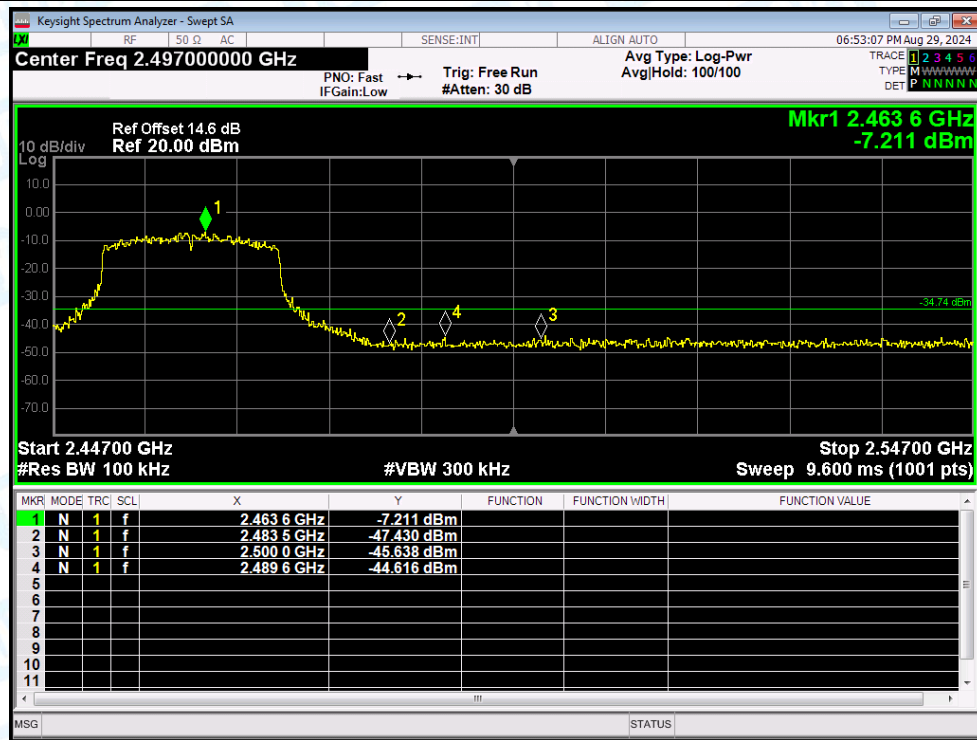
Band Edge NVNT ax(VHT20) 2412MHz Ant1 Emission



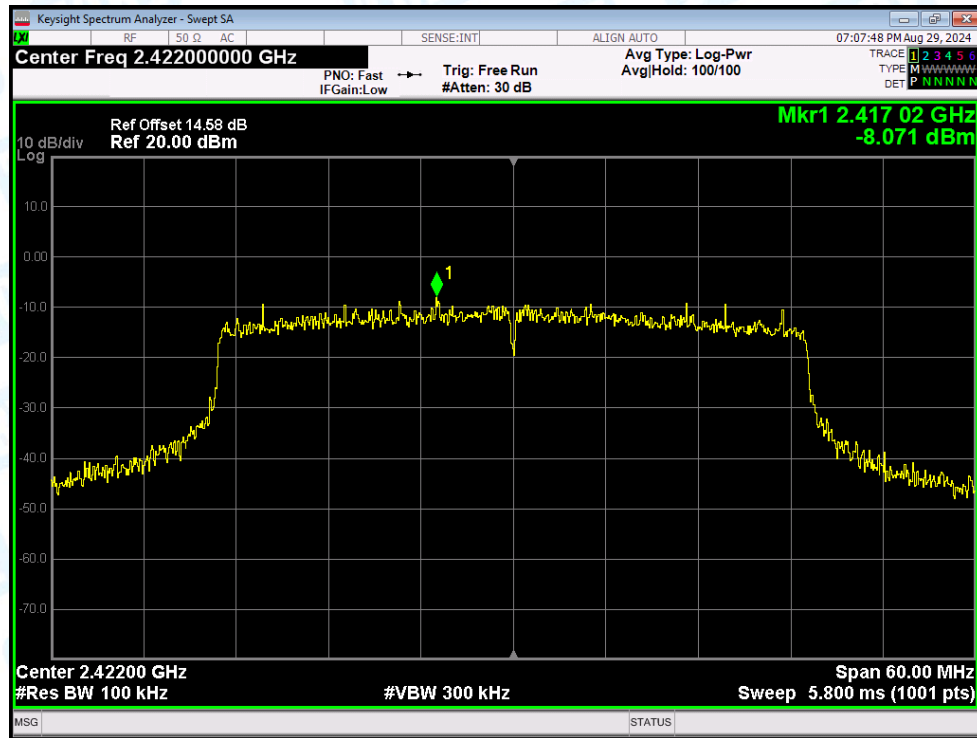
Band Edge NVNT ax(VHT20) 2462MHz Ant1 Ref



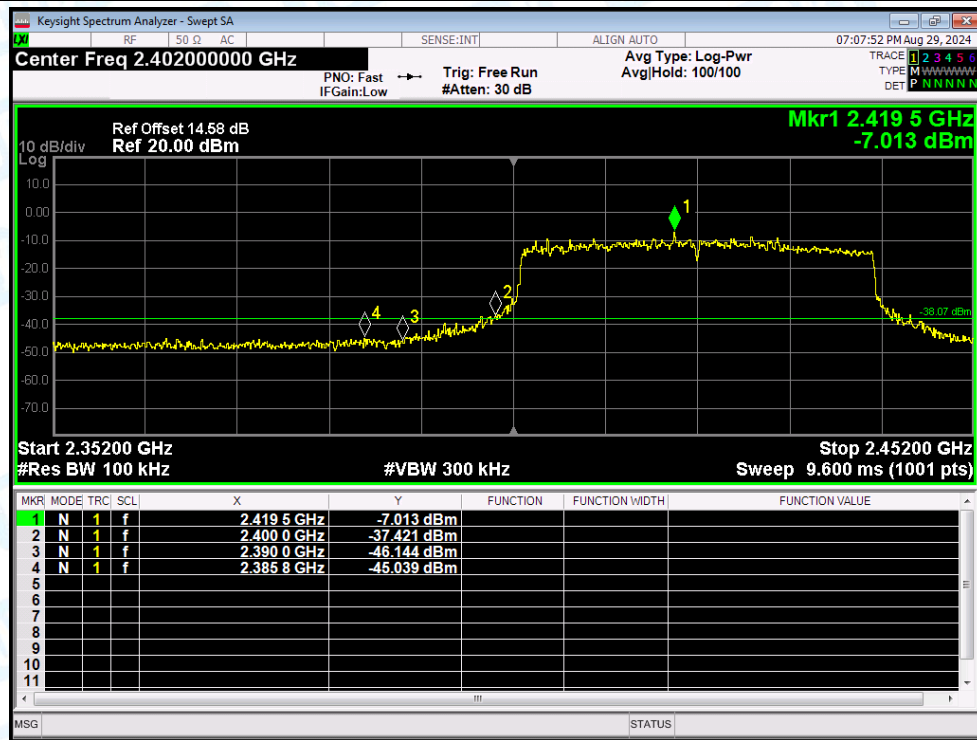
Band Edge NVNT ax(VHT20) 2462MHz Ant1 Emission



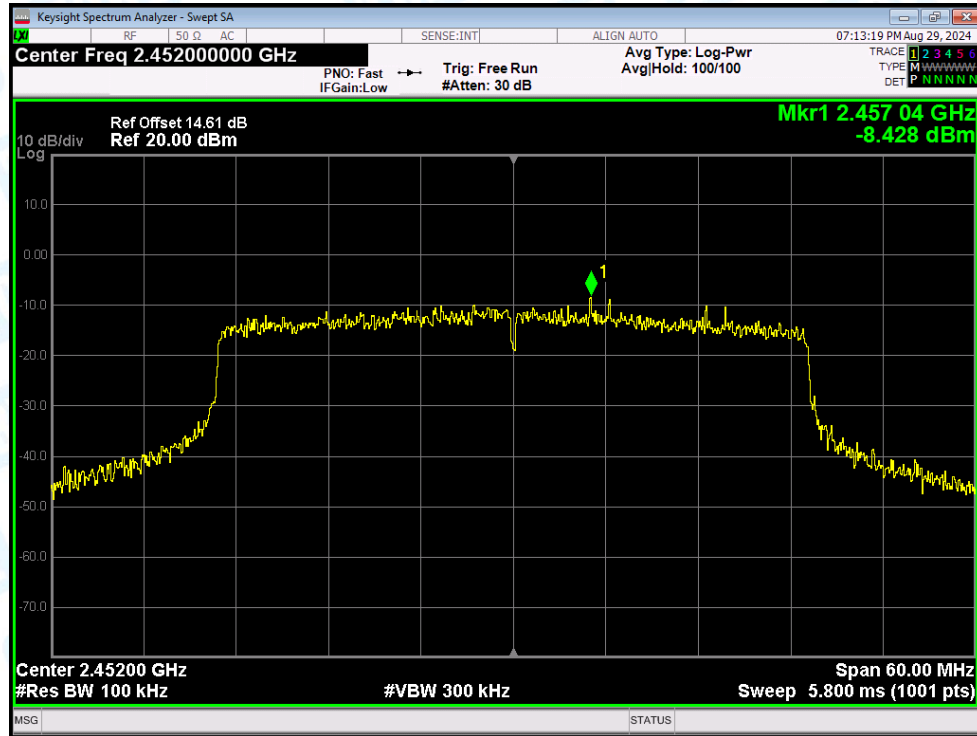
Band Edge NVNT ax(VHT40) 2422MHz Ant1 Ref



Band Edge NVNT ax(VHT40) 2422MHz Ant1 Emission



Band Edge NVNT ax(VHT40) 2452MHz Ant1 Ref



Band Edge NVNT ax(VHT40) 2452MHz Ant1 Emission

