

RF Test Data for 2.4G WiFi (Conducted Measurements)

General Description of EUT	
Product Name:	Tablet PC
Test Model:	IT-801B
Sample ID:	202408-0001-4-2#
Environmental Conditions	
Temperature:	22.0℃-25℃
Relative Humidity:	43%-55%
Test Voltage:	DC 3.8V
Test Engineer:	ZKN Zhou
Note: For a more detailed features description, please refer to the report TBR-C-202408-0001-82 The report only show the worst case data.	

Contents

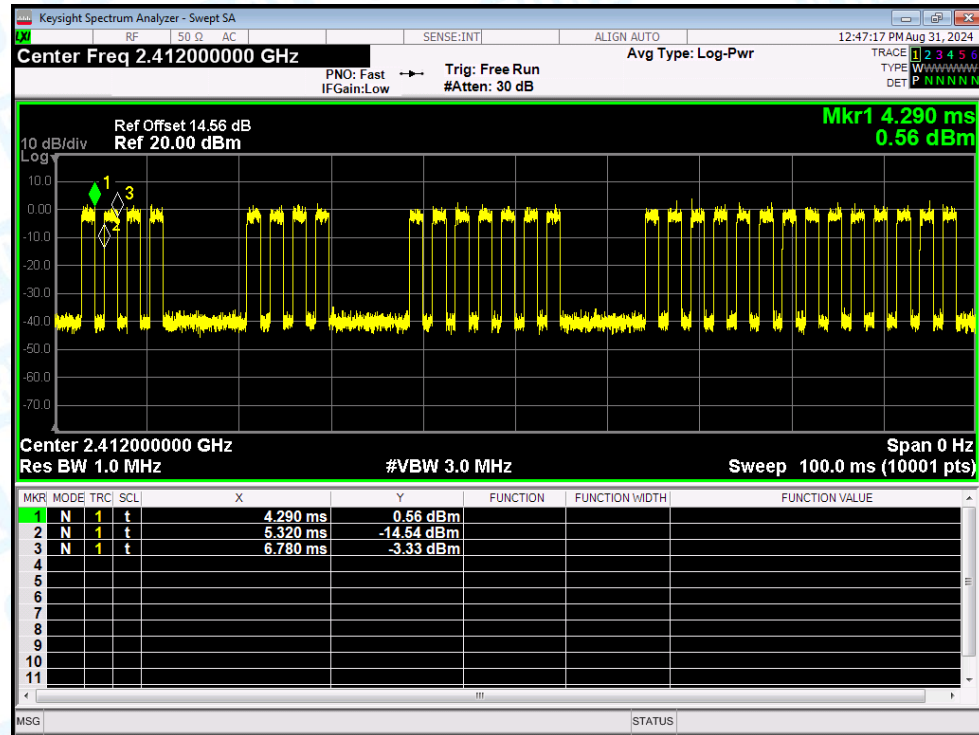
1. Duty Cycle.....	3
2. Maximum Conducted Output Power	13
3. -6dB Bandwidth	14
4. Occupied Channel Bandwidth	24
5. Maximum Power Spectral Density Level.....	34
6. Band Edge	44
7. Conducted RF Spurious Emission	57
8. Restrict Band	76

1. Duty Cycle

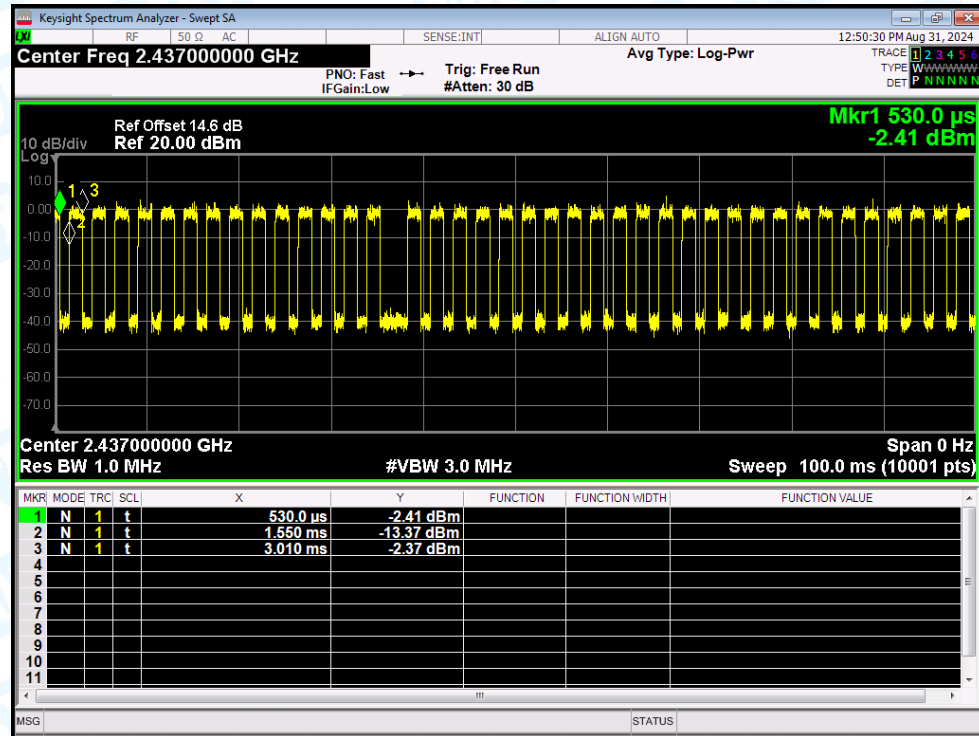
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	ax(VHT20)	2412	Ant1	58.63	2.32	0.68
NVNT	ax(VHT20)	2437	Ant1	58.87	2.3	0.68
NVNT	ax(VHT20)	2462	Ant1	58.47	2.33	0.69
NVNT	ax(VHT40)	2422	Ant1	42.13	3.75	1.33
NVNT	ax(VHT40)	2437	Ant1	41.9	3.78	1.33
NVNT	ax(VHT40)	2452	Ant1	41.9	3.78	1.33
NVNT	b	2412	Ant1	92.3	0.35	0.08
NVNT	b	2437	Ant1	92.37	0.34	0.08
NVNT	b	2462	Ant1	92.37	0.34	0.08
NVNT	g	2412	Ant1	66.34	1.78	0.49
NVNT	g	2437	Ant1	66.34	1.78	0.49
NVNT	g	2462	Ant1	66.56	1.77	0.49
NVNT	n(HT20)	2412	Ant1	64.73	1.89	0.53
NVNT	n(HT20)	2437	Ant1	64.95	1.87	0.53
NVNT	n(HT20)	2462	Ant1	64.73	1.89	0.53
NVNT	n(HT40)	2422	Ant1	46.94	3.28	1.09
NVNT	n(HT40)	2437	Ant1	47.45	3.24	1.08
NVNT	n(HT40)	2452	Ant1	46.94	3.28	1.09

Test Graphs

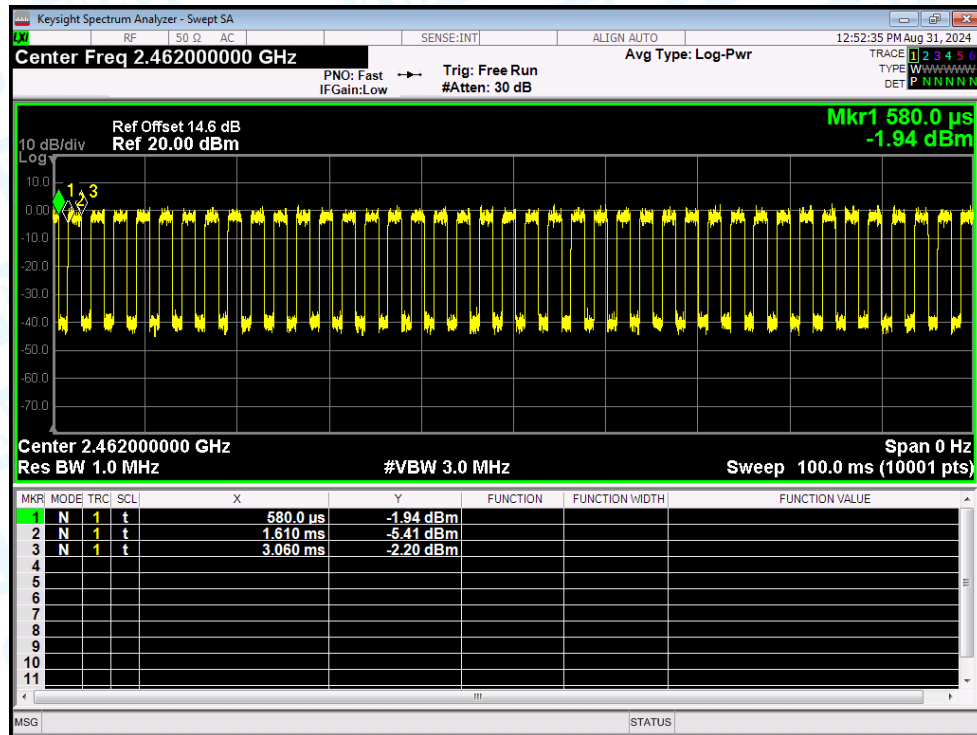
Duty Cycle NVNT ax(VHT20) 2412MHz Ant1



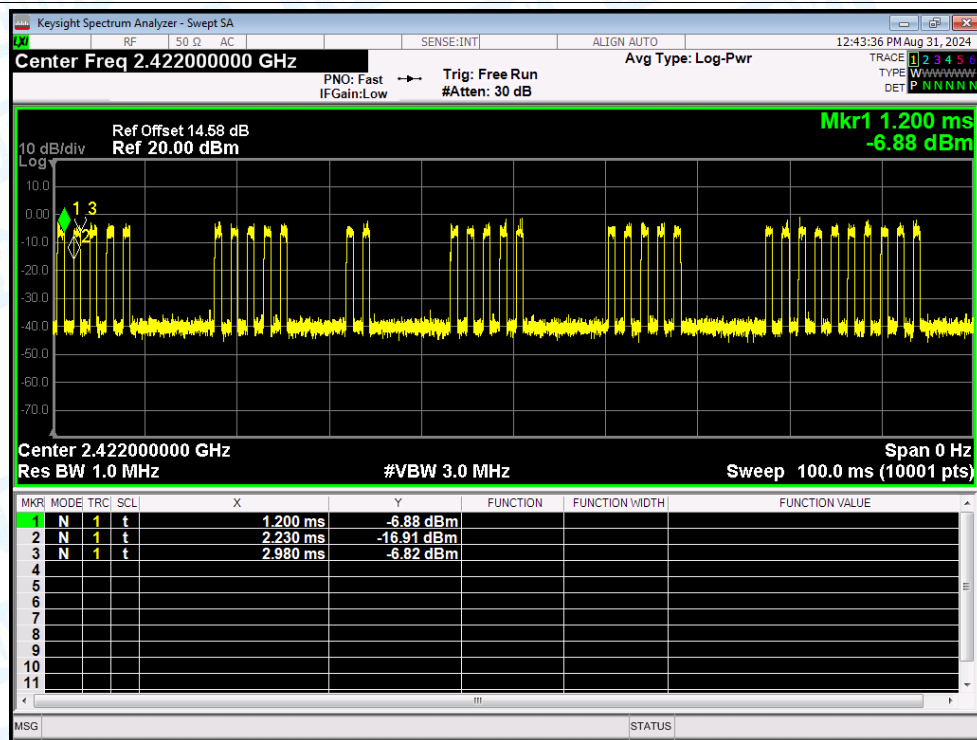
Duty Cycle NVNT ax(VHT20) 2437MHz Ant1



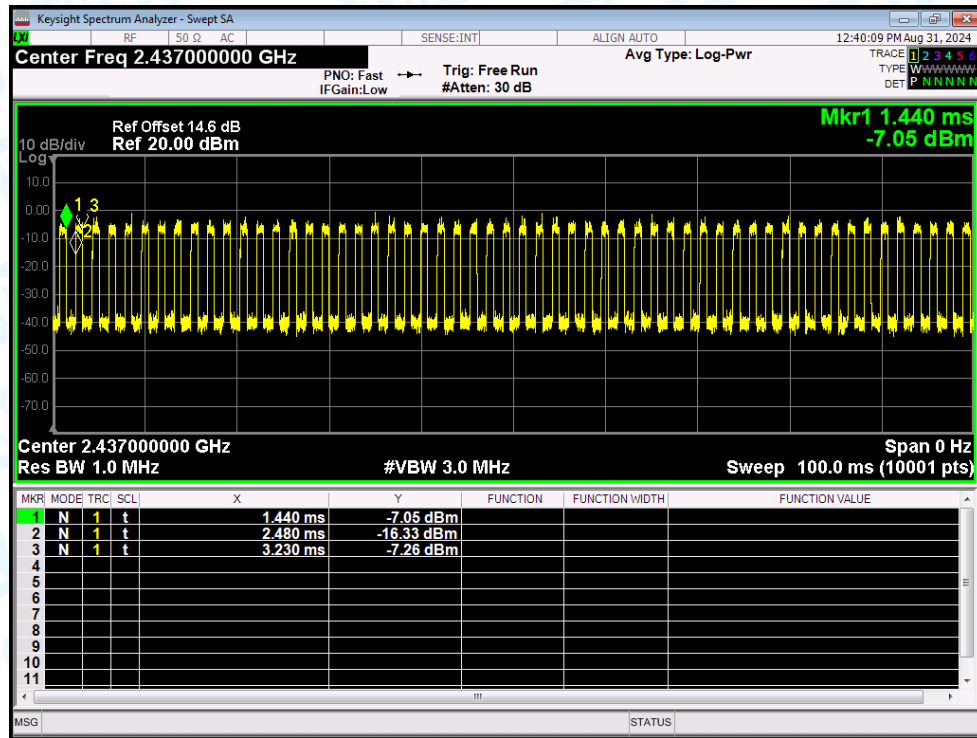
Duty Cycle NVNT ax(VHT20) 2462MHz Ant1



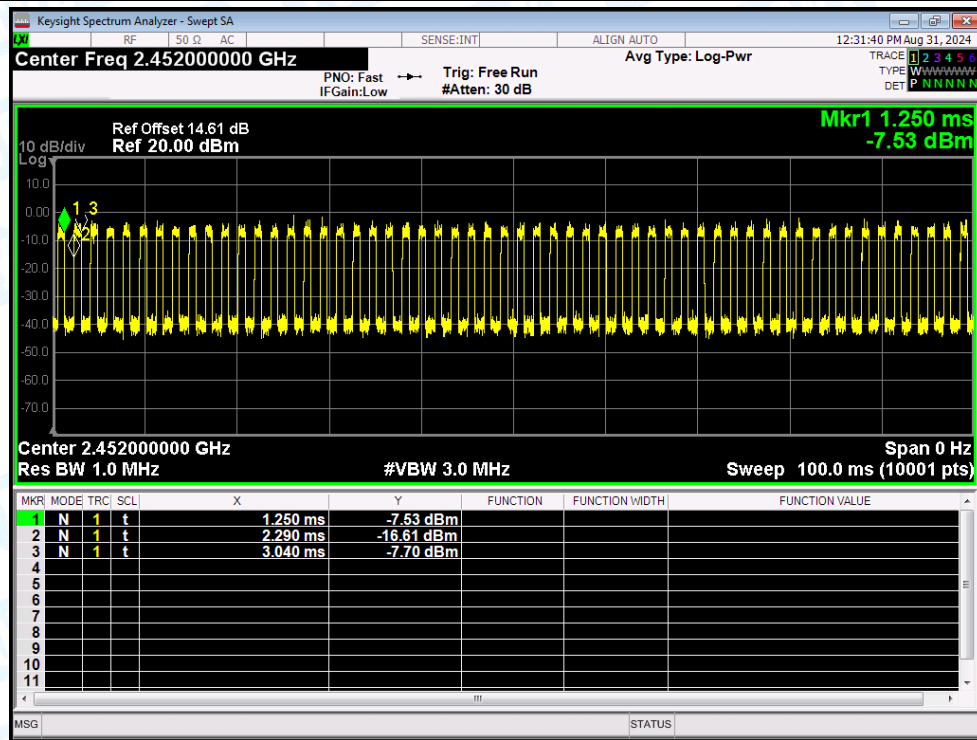
Duty Cycle NVNT ax(VHT40) 2422MHz Ant1



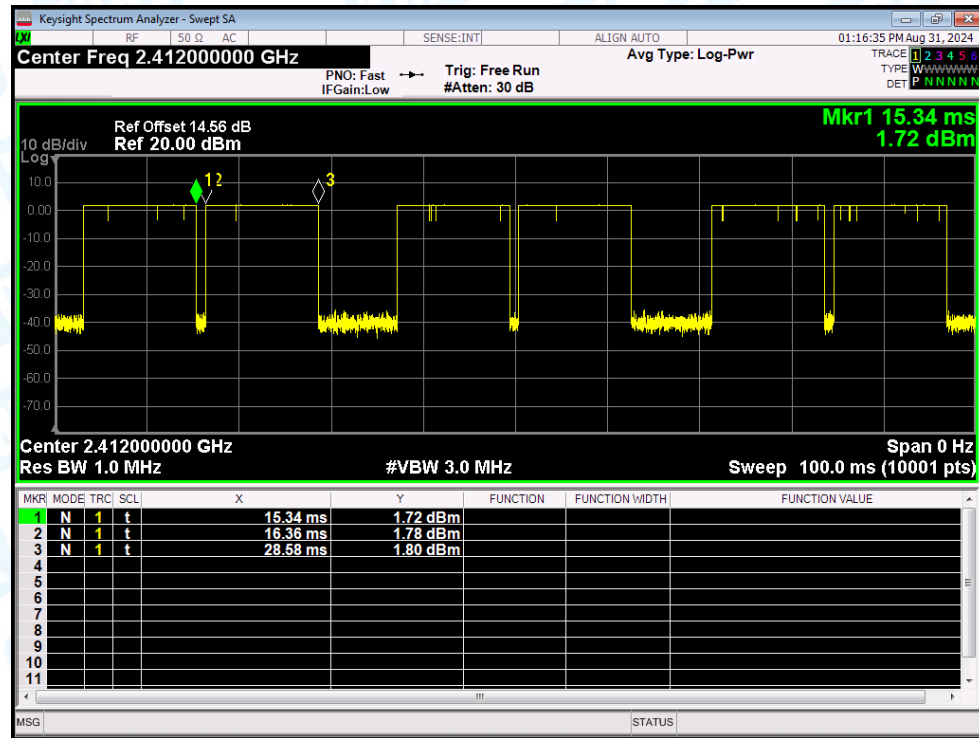
Duty Cycle NVNT ax(VHT40) 2437MHz Ant1



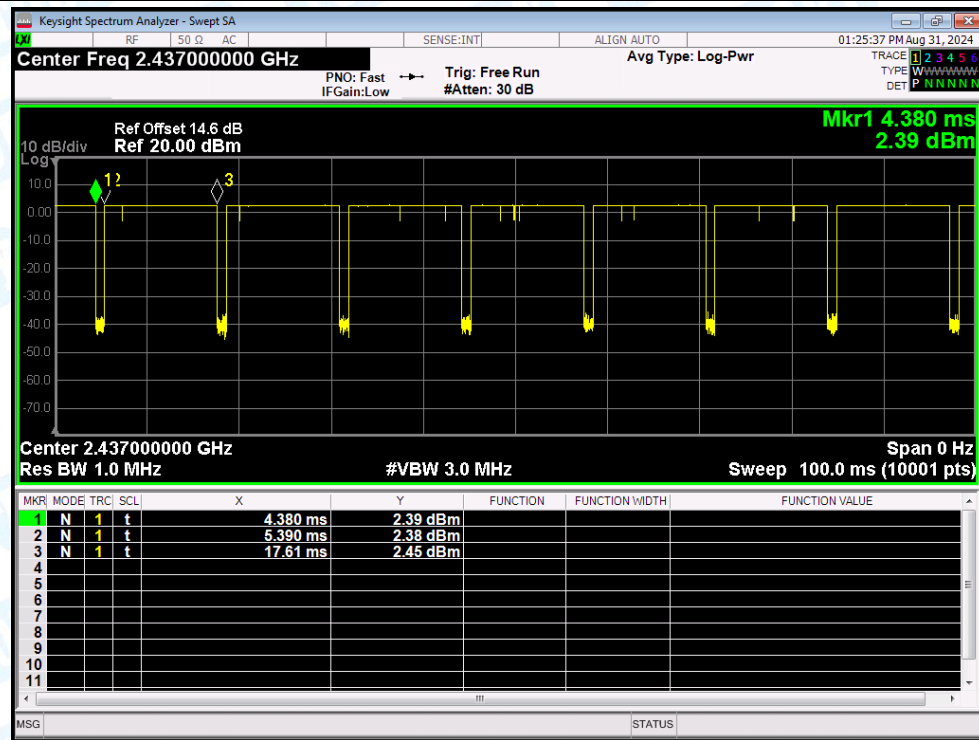
Duty Cycle NVNT ax(VHT40) 2452MHz Ant1



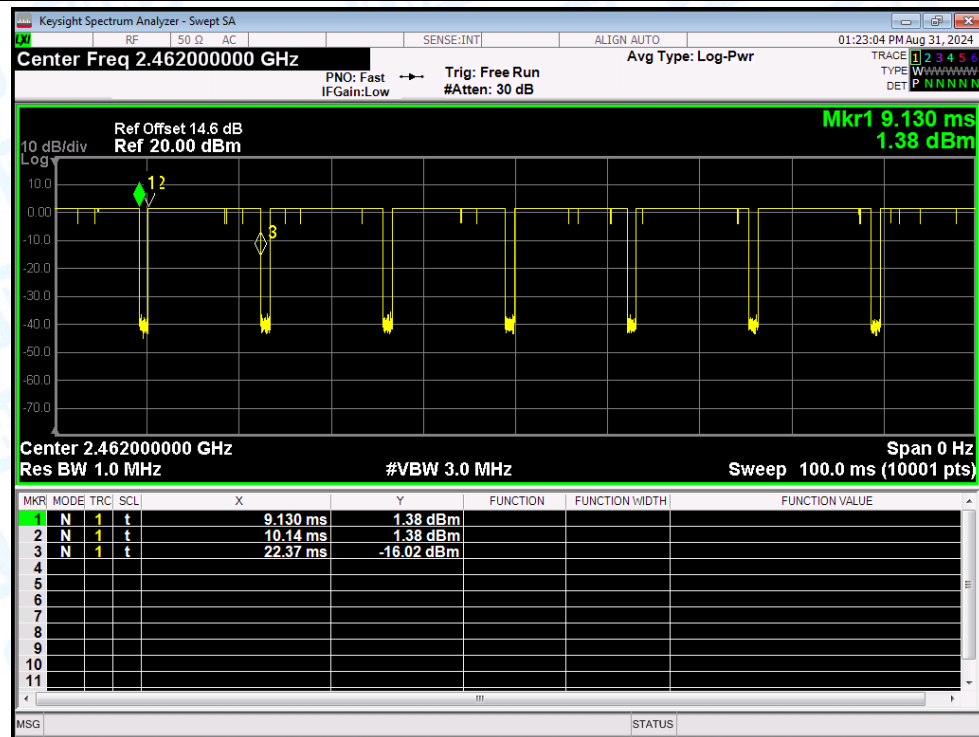
Duty Cycle NVNT b 2412MHz Ant1



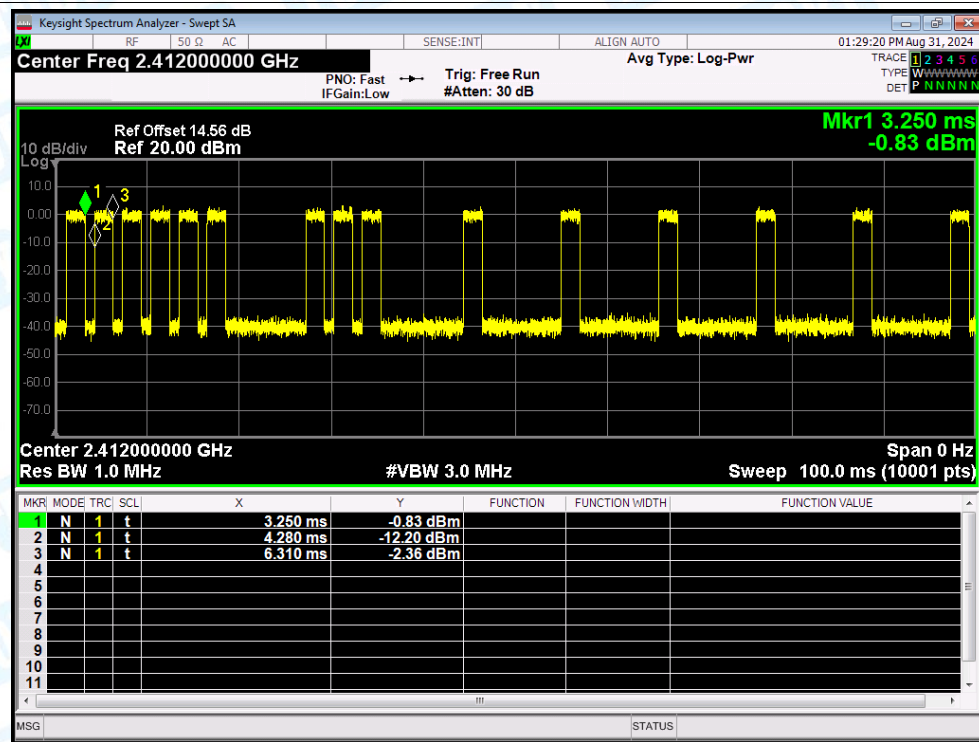
Duty Cycle NVNT b 2437MHz Ant1



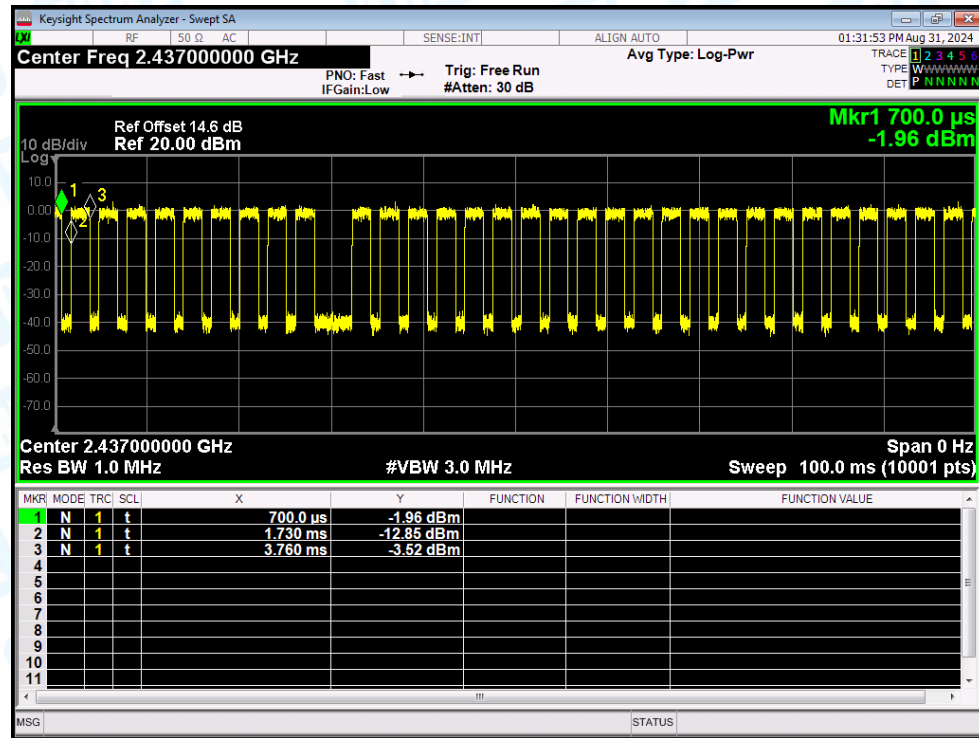
Duty Cycle NVNT b 2462MHz Ant1



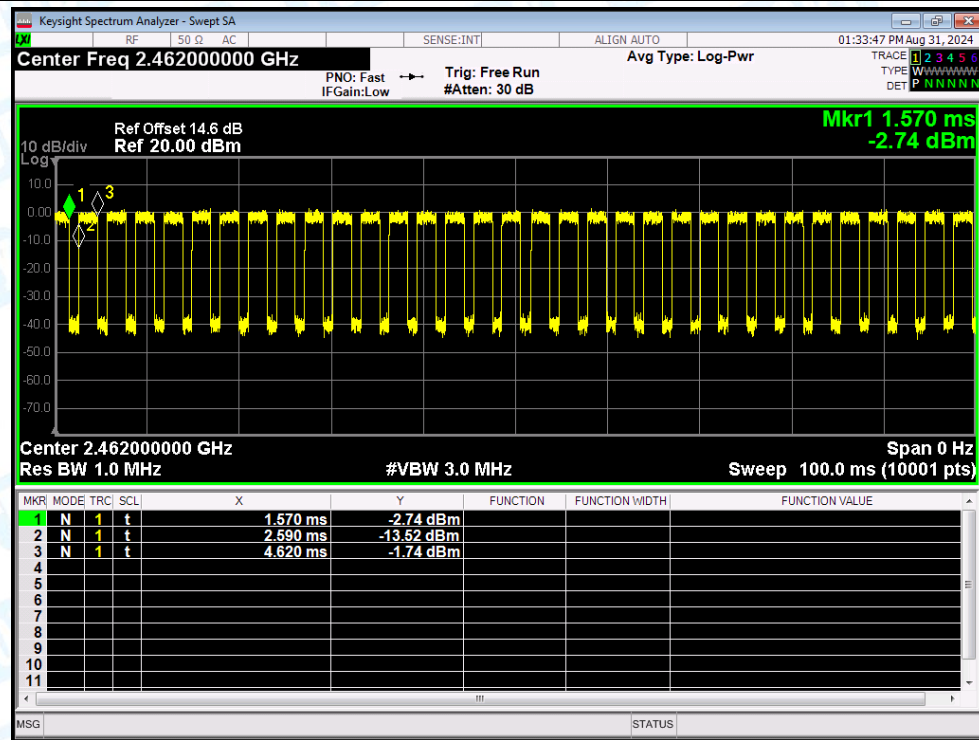
Duty Cycle NVNT g 2412MHz Ant1



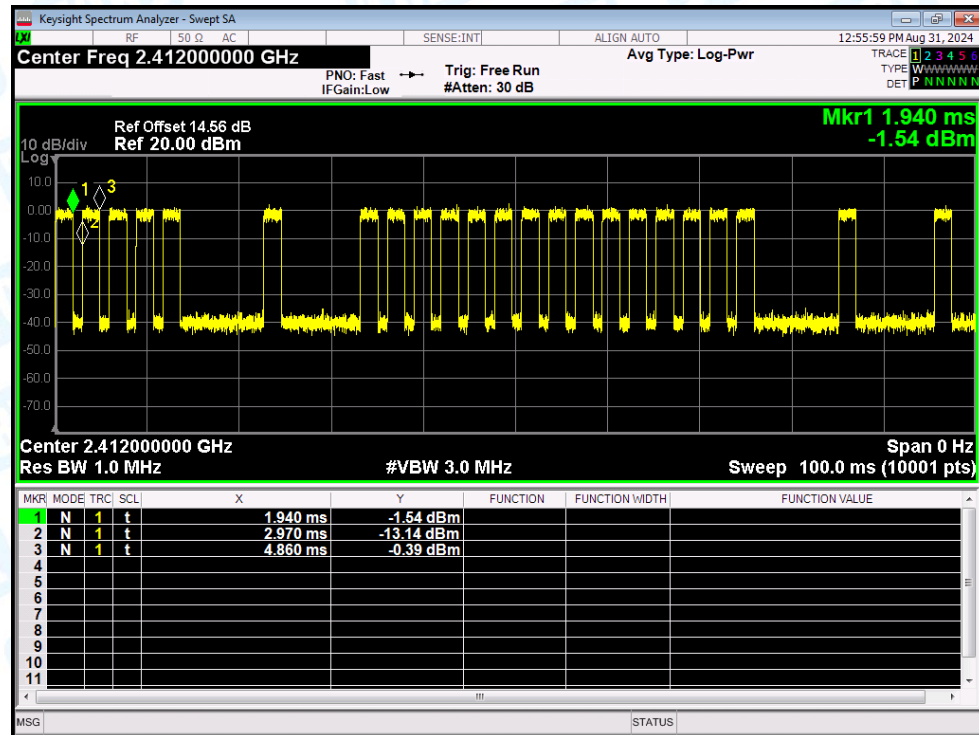
Duty Cycle NVNT g 2437MHz Ant1



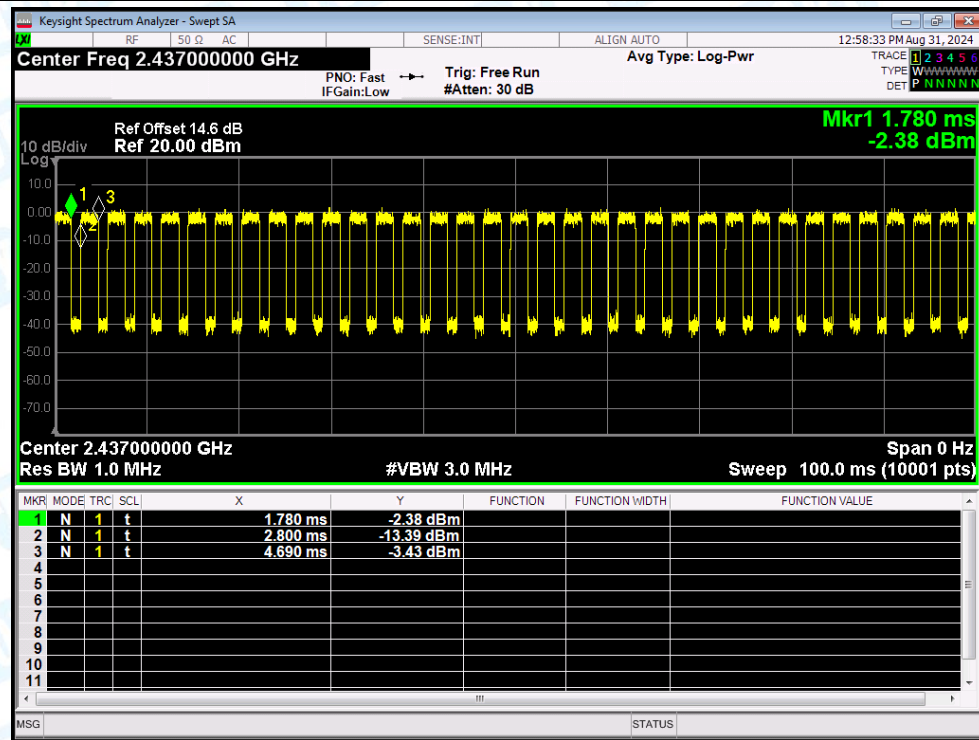
Duty Cycle NVNT g 2462MHz Ant1



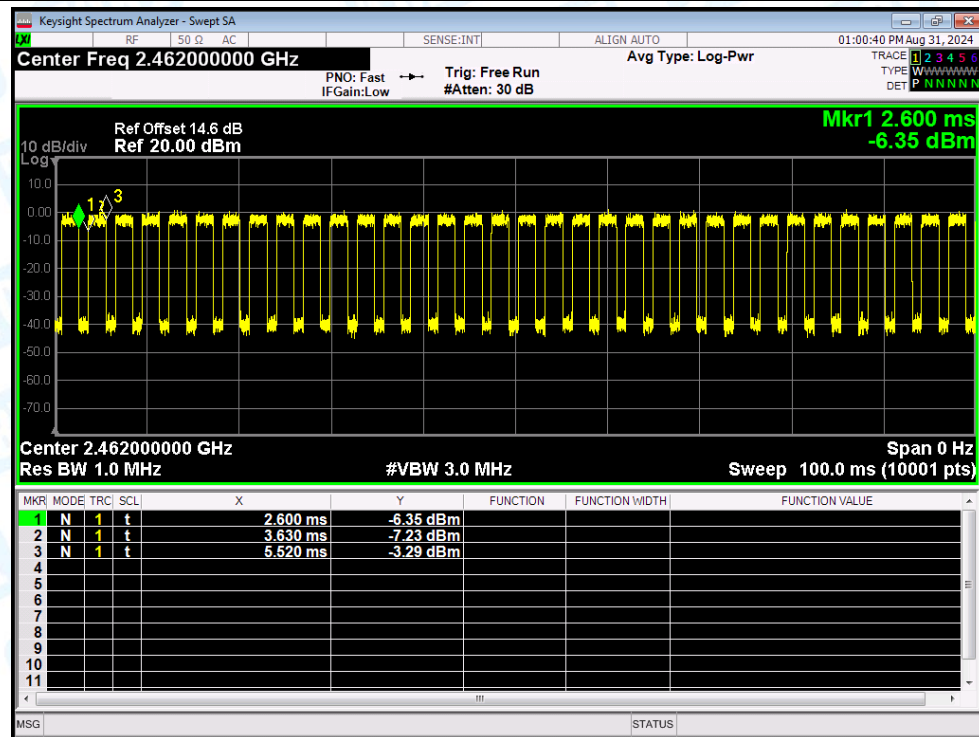
Duty Cycle NVNT n(HT20) 2412MHz Ant1



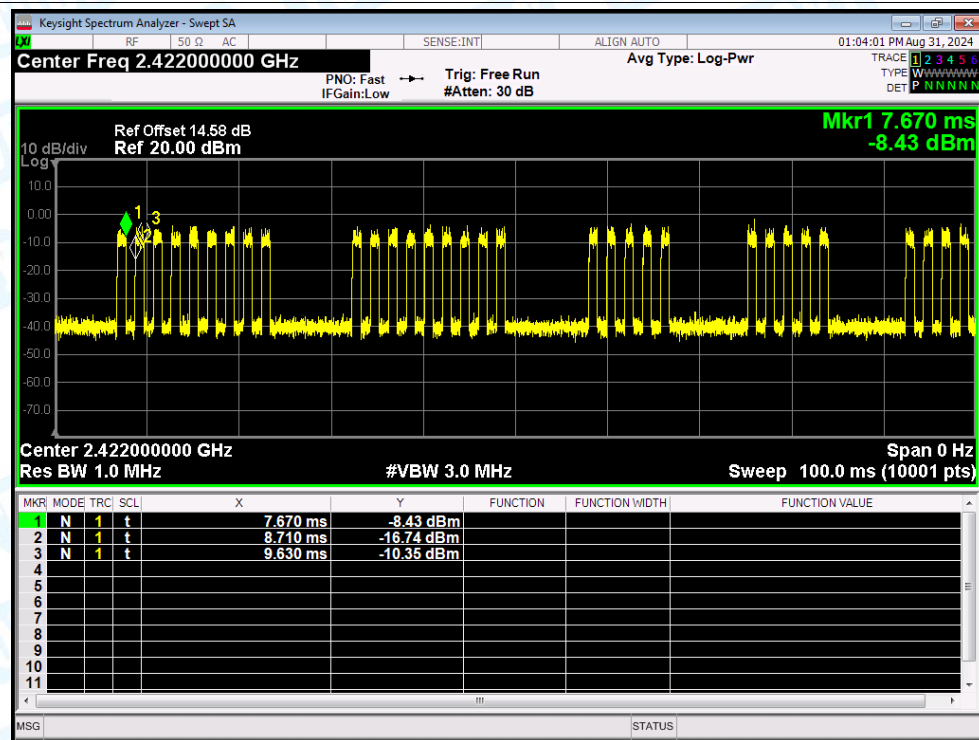
Duty Cycle NVNT n(HT20) 2437MHz Ant1



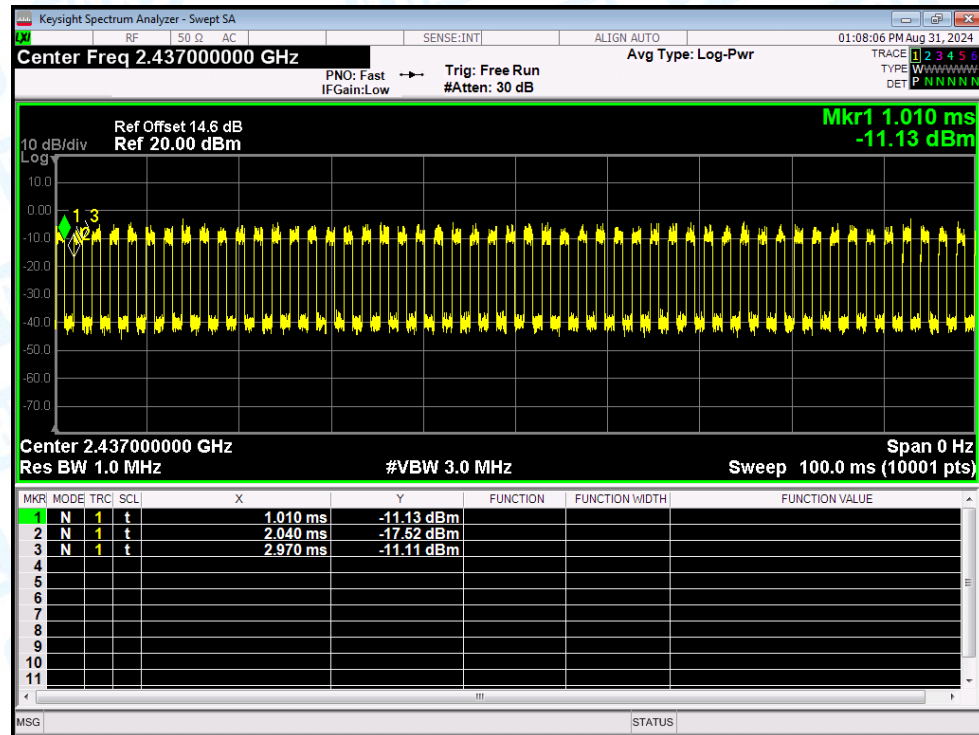
Duty Cycle NVNT n(HT20) 2462MHz Ant1



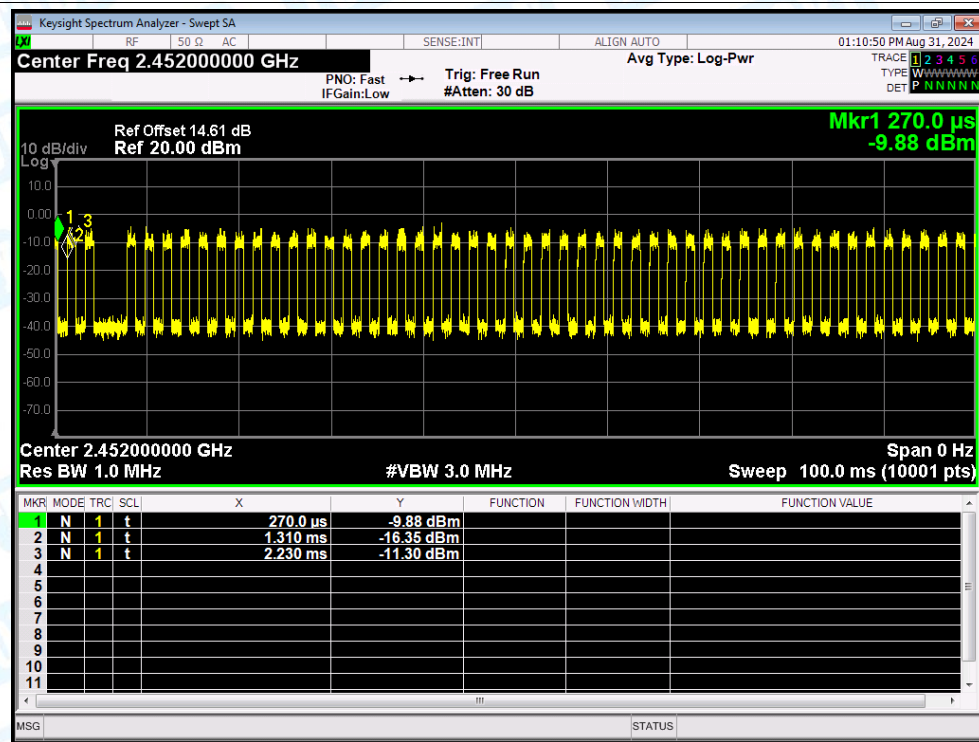
Duty Cycle NVNT n(HT40) 2422MHz Ant1



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	7	30	Pass
NVNT	ax(VHT20)	2437	Ant1	6.39	30	Pass
NVNT	ax(VHT20)	2462	Ant1	5.63	30	Pass
NVNT	ax(VHT40)	2422	Ant1	6.89	30	Pass
NVNT	ax(VHT40)	2437	Ant1	6.51	30	Pass
NVNT	ax(VHT40)	2452	Ant1	6.07	30	Pass
NVNT	b	2412	Ant1	6.65	30	Pass
NVNT	b	2437	Ant1	7.28	30	Pass
NVNT	b	2462	Ant1	6.08	30	Pass
NVNT	g	2412	Ant1	7.3	30	Pass
NVNT	g	2437	Ant1	6.73	30	Pass
NVNT	g	2462	Ant1	5.87	30	Pass
NVNT	n(HT20)	2412	Ant1	6.68	30	Pass
NVNT	n(HT20)	2437	Ant1	6.08	30	Pass
NVNT	n(HT20)	2462	Ant1	5.28	30	Pass
NVNT	n(HT40)	2422	Ant1	7.03	30	Pass
NVNT	n(HT40)	2437	Ant1	6.59	30	Pass
NVNT	n(HT40)	2452	Ant1	6.16	30	Pass

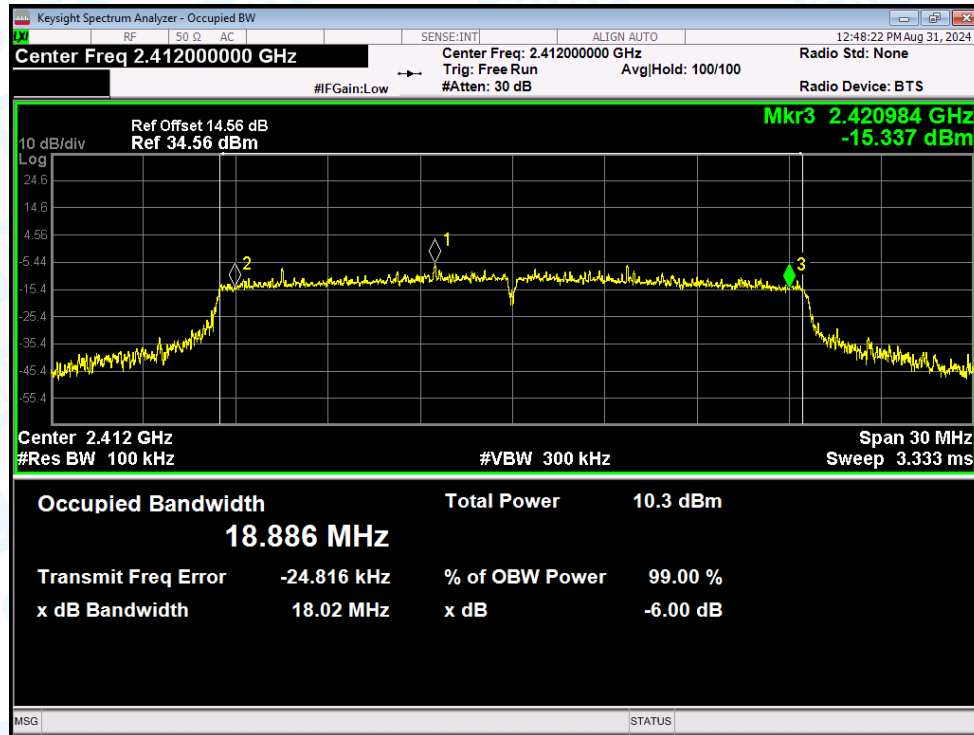
Note: The duty factor has been compensated into the result.

3. -6dB Bandwidth

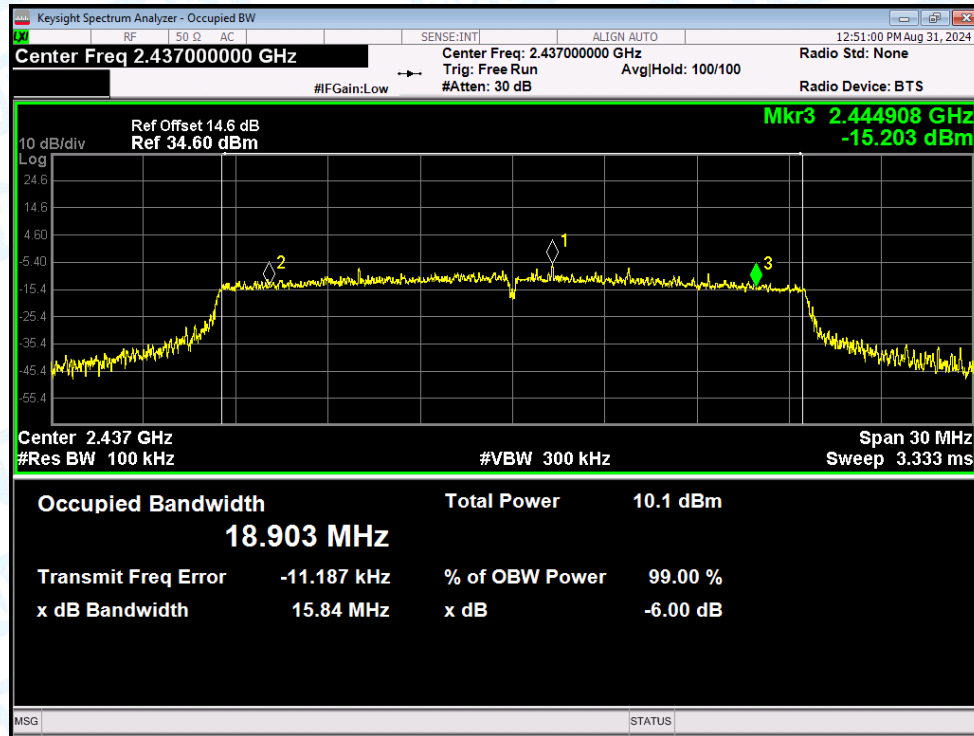
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	ax(VHT20)	2412	Ant1	18.02	0.5	Pass
NVNT	ax(VHT20)	2437	Ant1	15.84	0.5	Pass
NVNT	ax(VHT20)	2462	Ant1	18.06	0.5	Pass
NVNT	ax(VHT40)	2422	Ant1	35.69	0.5	Pass
NVNT	ax(VHT40)	2437	Ant1	35.78	0.5	Pass
NVNT	ax(VHT40)	2452	Ant1	35.99	0.5	Pass
NVNT	b	2412	Ant1	8.02	0.5	Pass
NVNT	b	2437	Ant1	7.1	0.5	Pass
NVNT	b	2462	Ant1	7.57	0.5	Pass
NVNT	g	2412	Ant1	15.01	0.5	Pass
NVNT	g	2437	Ant1	15.15	0.5	Pass
NVNT	g	2462	Ant1	16.35	0.5	Pass
NVNT	n(HT20)	2412	Ant1	16.07	0.5	Pass
NVNT	n(HT20)	2437	Ant1	16.65	0.5	Pass
NVNT	n(HT20)	2462	Ant1	16.52	0.5	Pass
NVNT	n(HT40)	2422	Ant1	35.48	0.5	Pass
NVNT	n(HT40)	2437	Ant1	35.1	0.5	Pass
NVNT	n(HT40)	2452	Ant1	35.14	0.5	Pass

Test Graphs

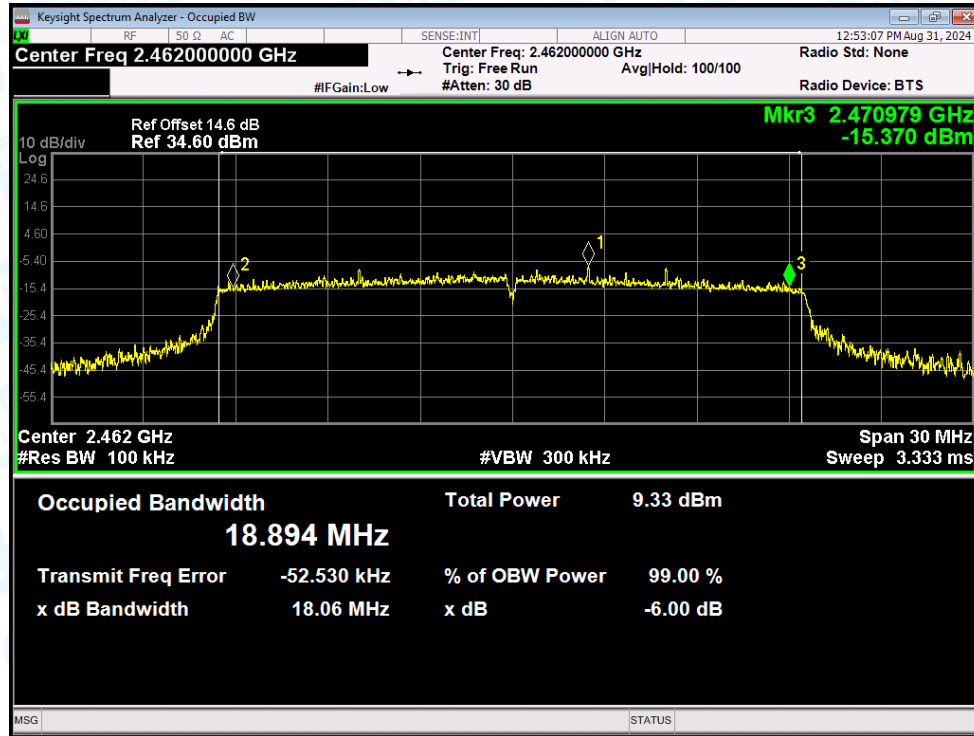
-6dB Bandwidth NVNT ax(VHT20) 2412MHz Ant1



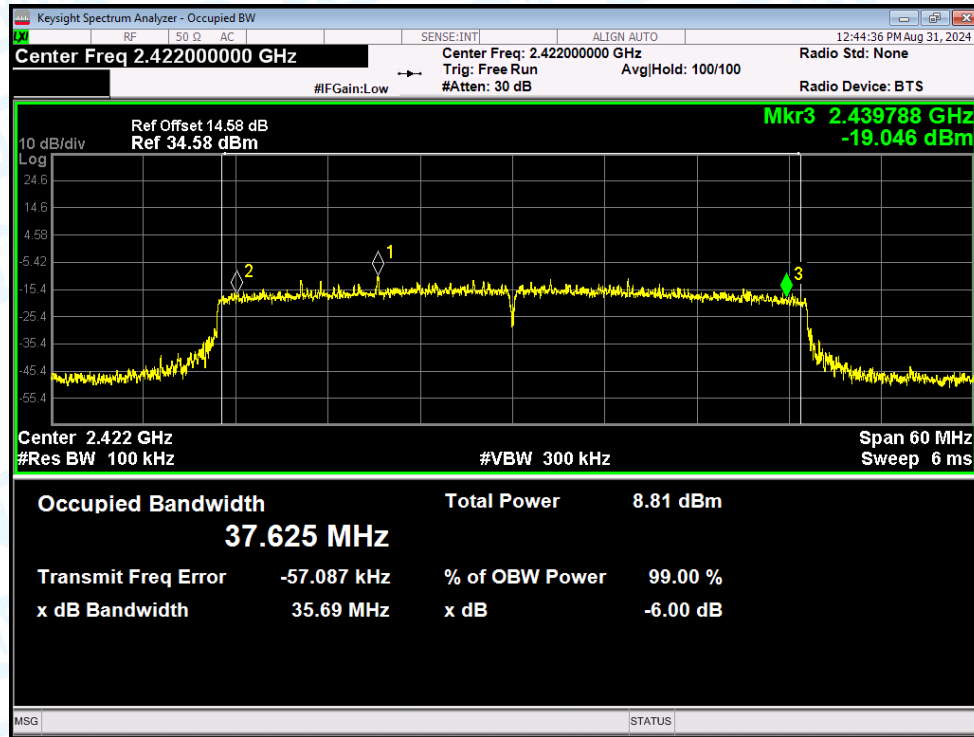
-6dB Bandwidth NVNT ax(VHT20) 2437MHz Ant1



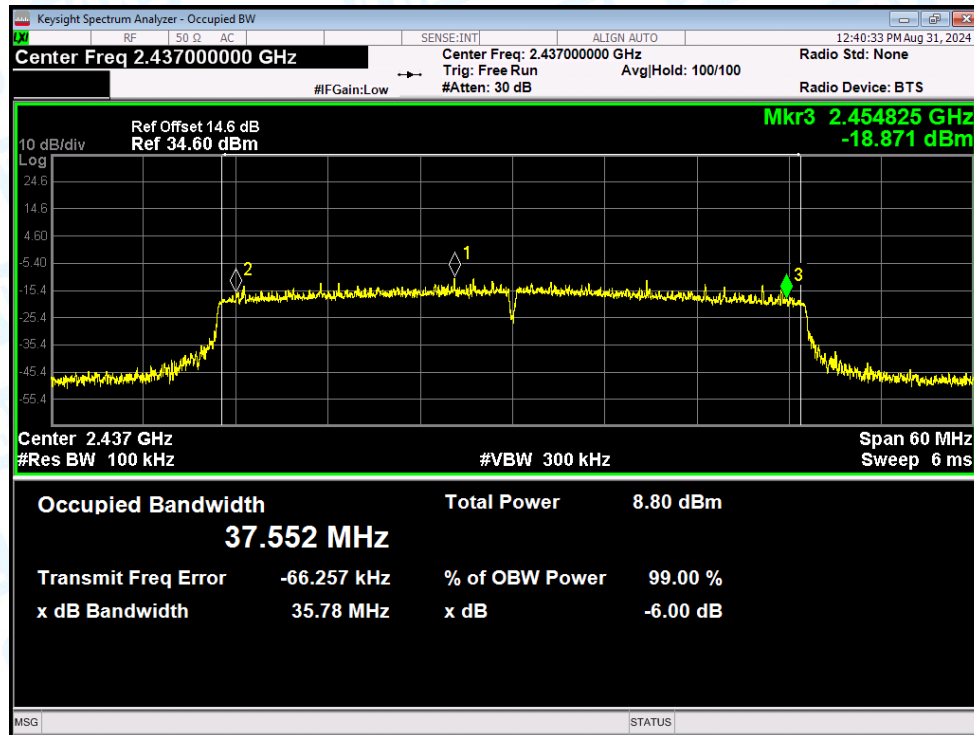
-6dB Bandwidth NVNT ax(VHT20) 2462MHz Ant1



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



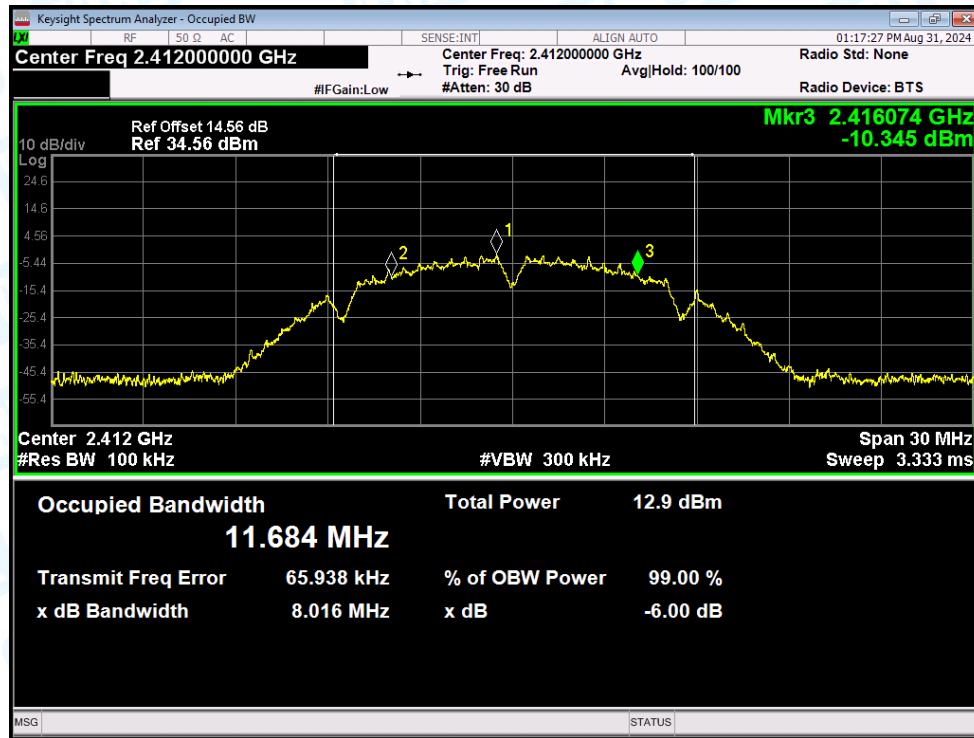
-6dB Bandwidth NVNT ax(VHT40) 2437MHz Ant1



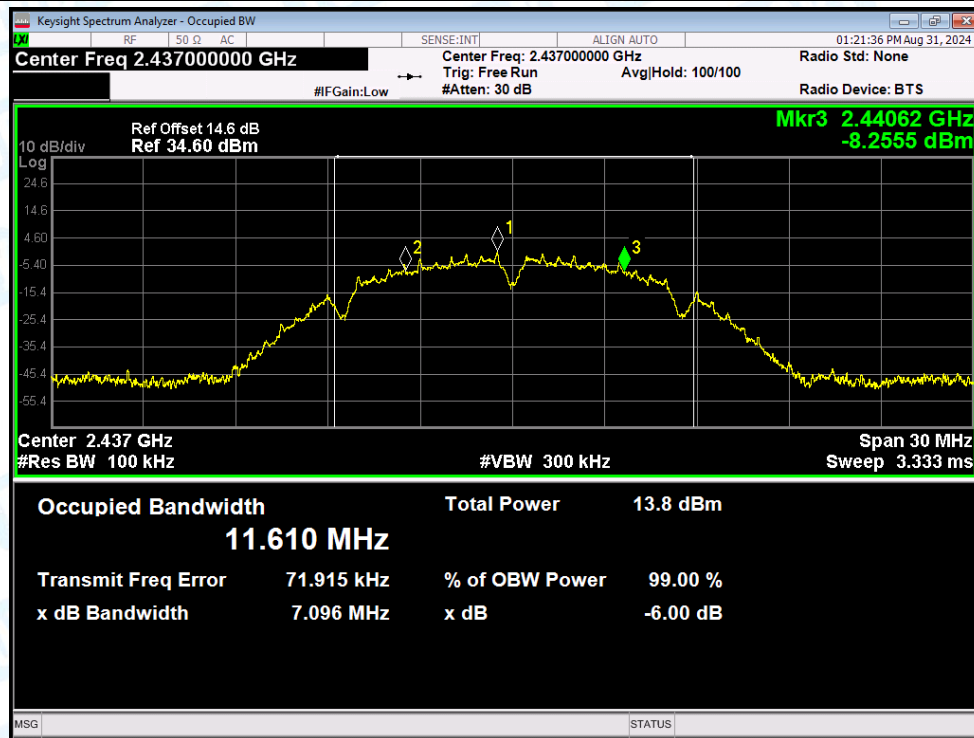
-6dB Bandwidth NVNT ax(VHT40) 2452MHz Ant1



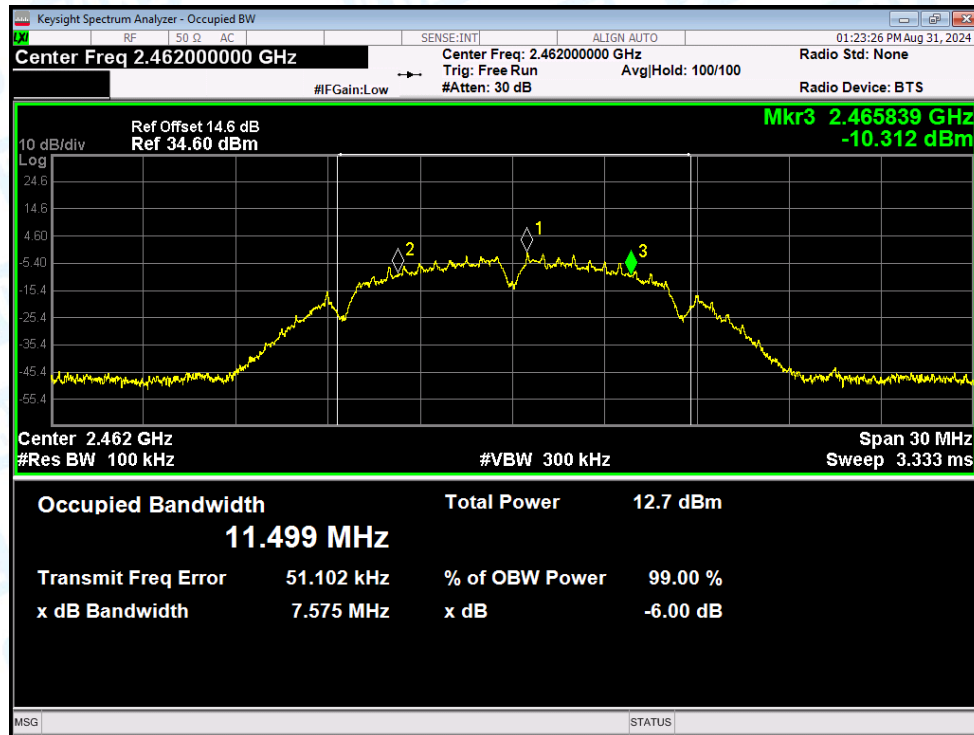
-6dB Bandwidth NVNT b 2412MHz Ant1



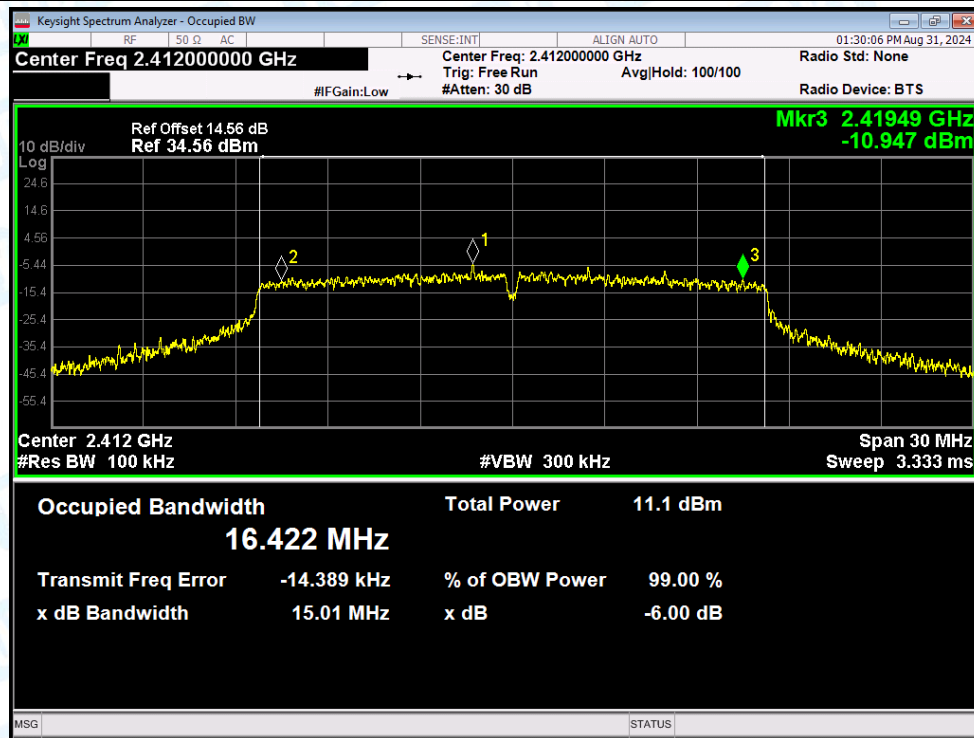
-6dB Bandwidth NVNT b 2437MHz Ant1



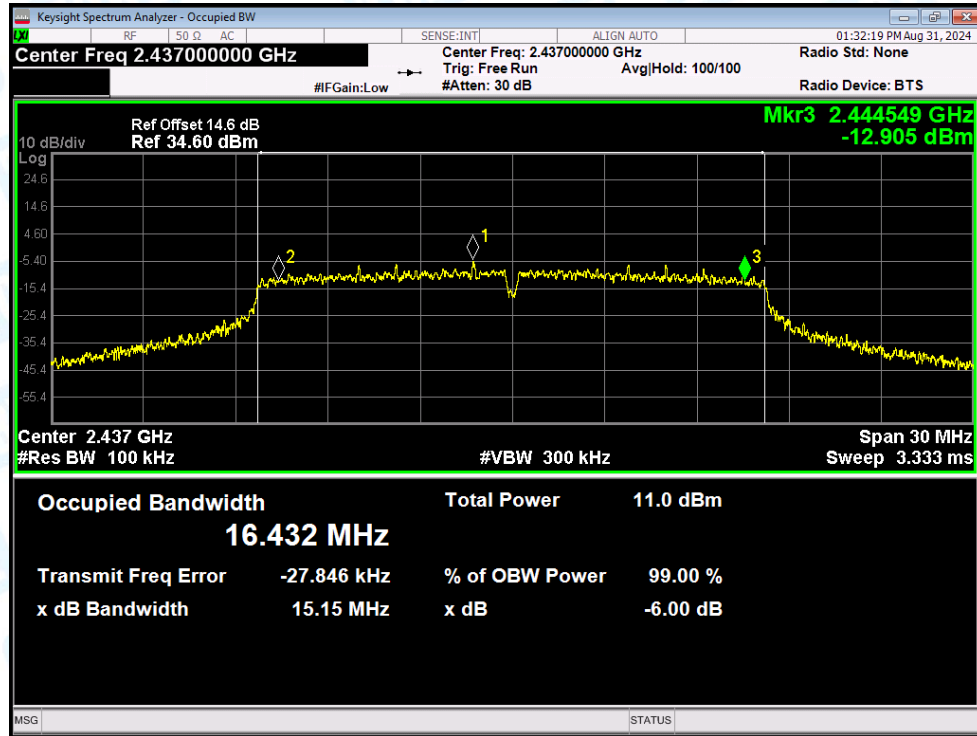
-6dB Bandwidth NVNT b 2462MHz Ant1



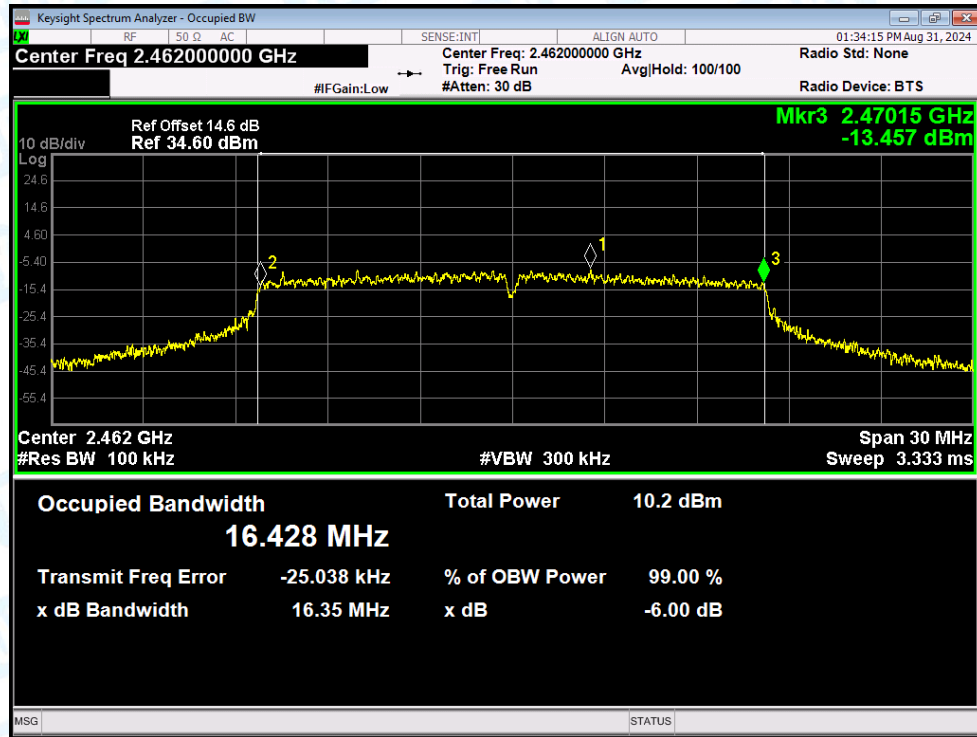
-6dB Bandwidth NVNT g 2412MHz Ant1



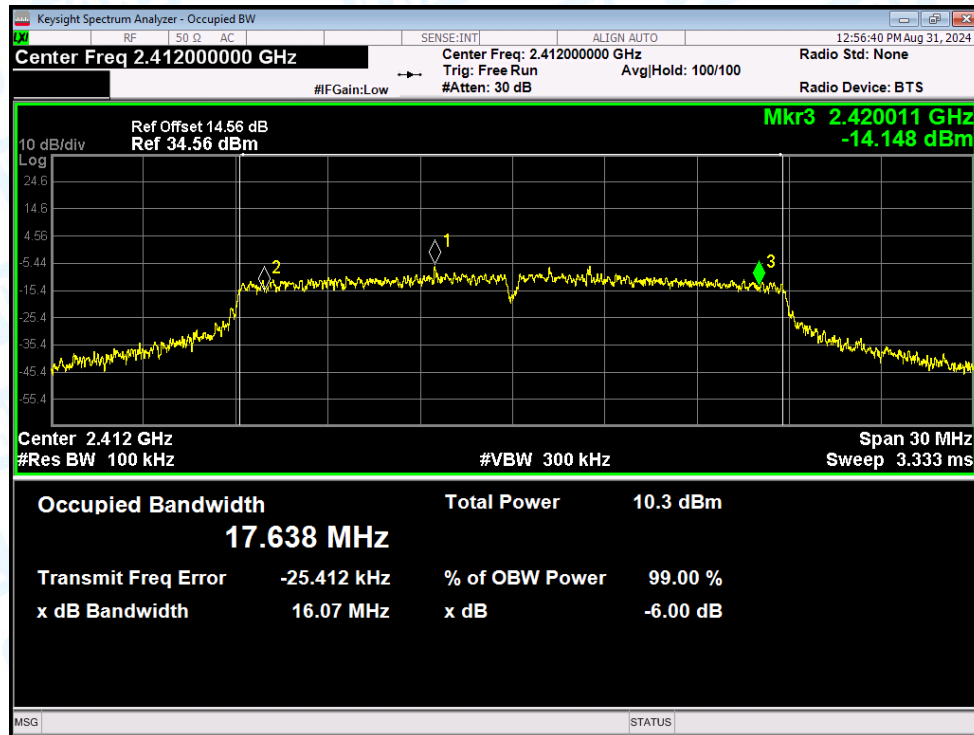
-6dB Bandwidth NVNT g 2437MHz Ant1



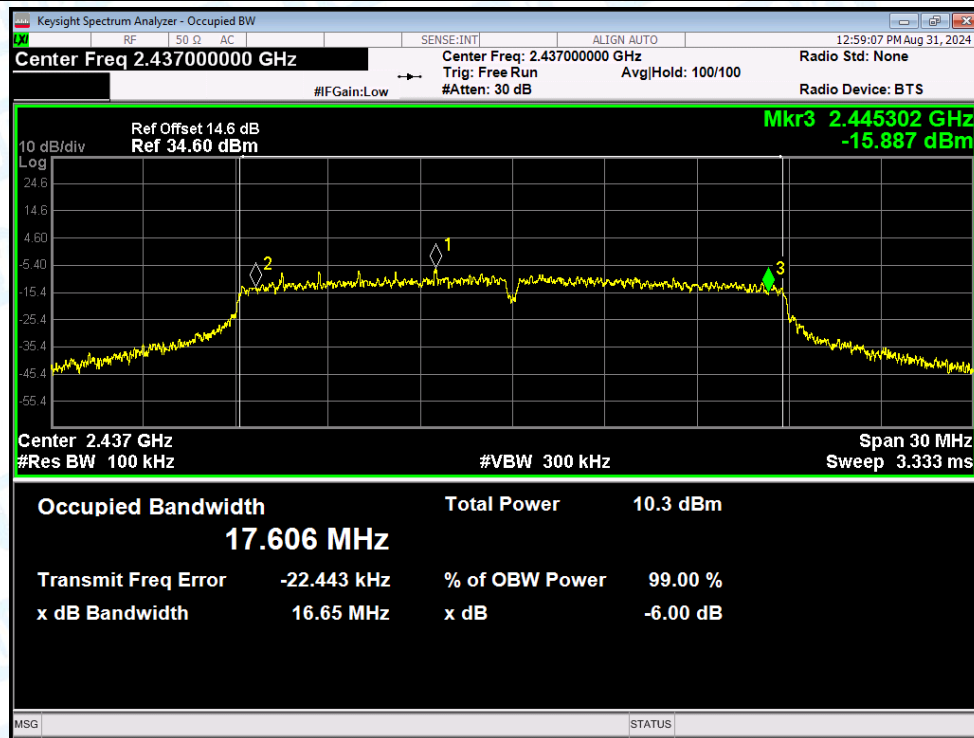
-6dB Bandwidth NVNT g 2462MHz Ant1



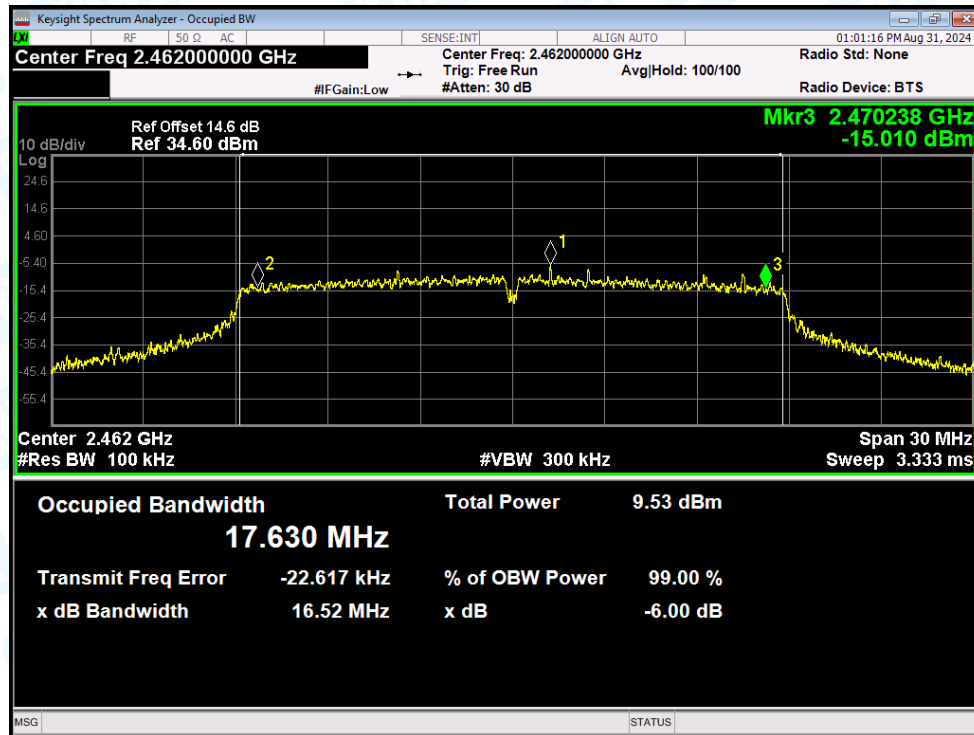
-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



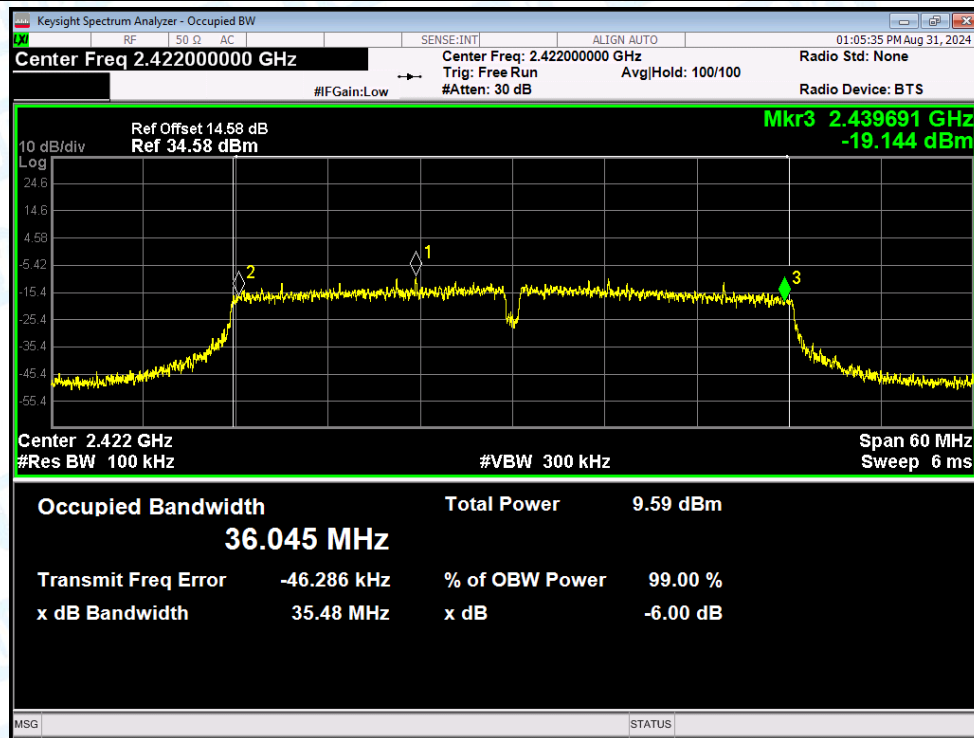
-6dB Bandwidth NVNT n(HT20) 2437MHz Ant1



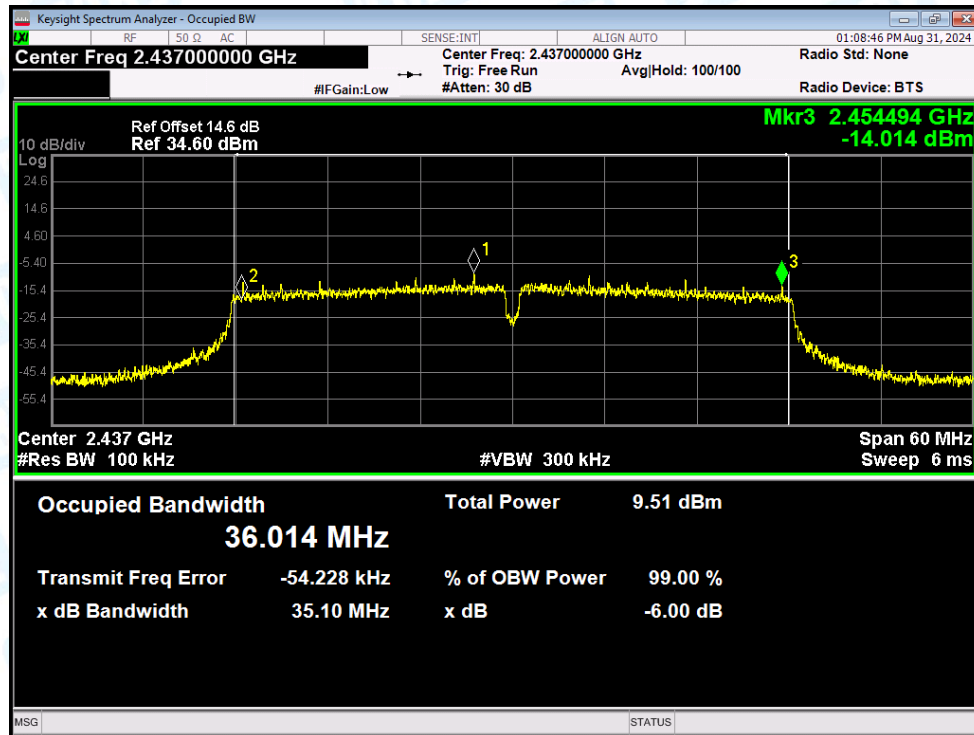
-6dB Bandwidth NVNT n(HT20) 2462MHz Ant1



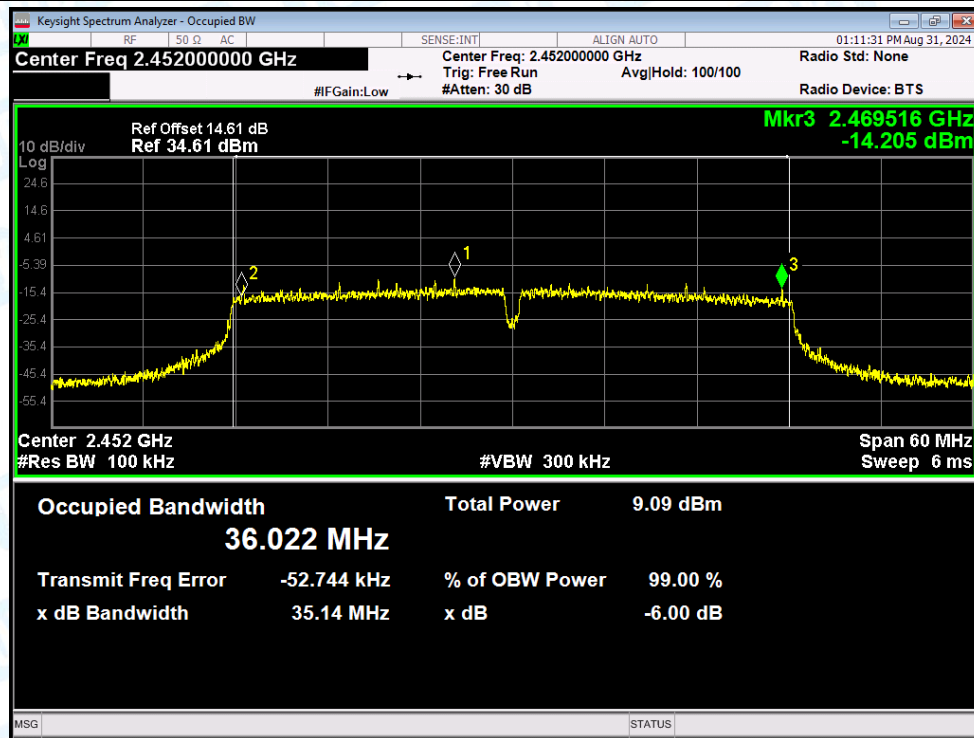
-6dB Bandwidth NVNT n(HT40) 2422MHz Ant1



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



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

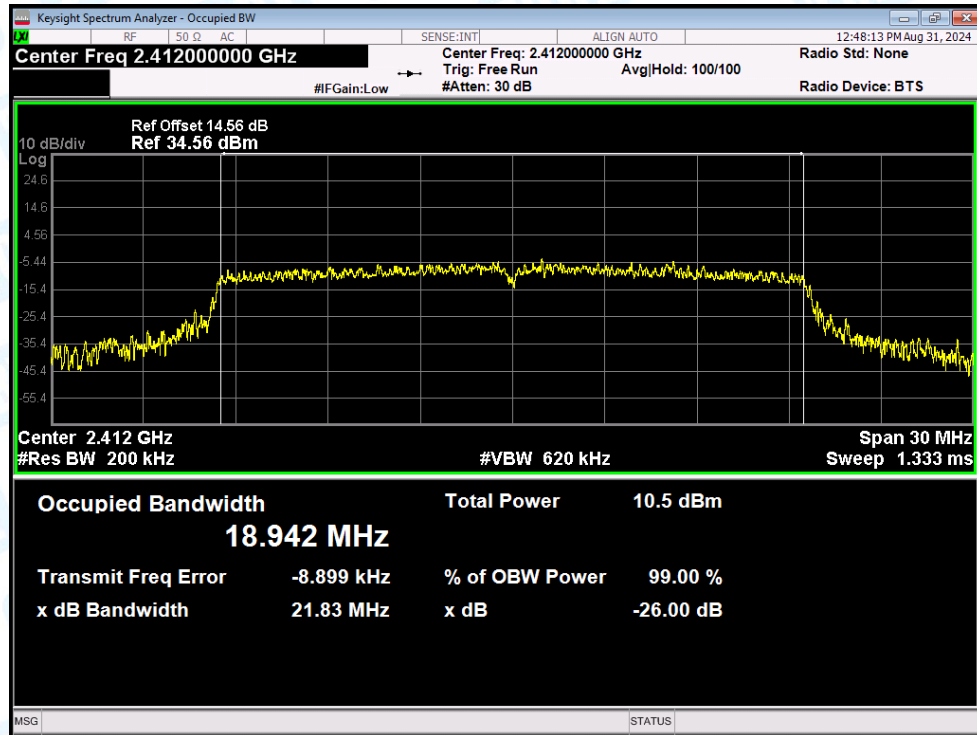


4. Occupied Channel Bandwidth

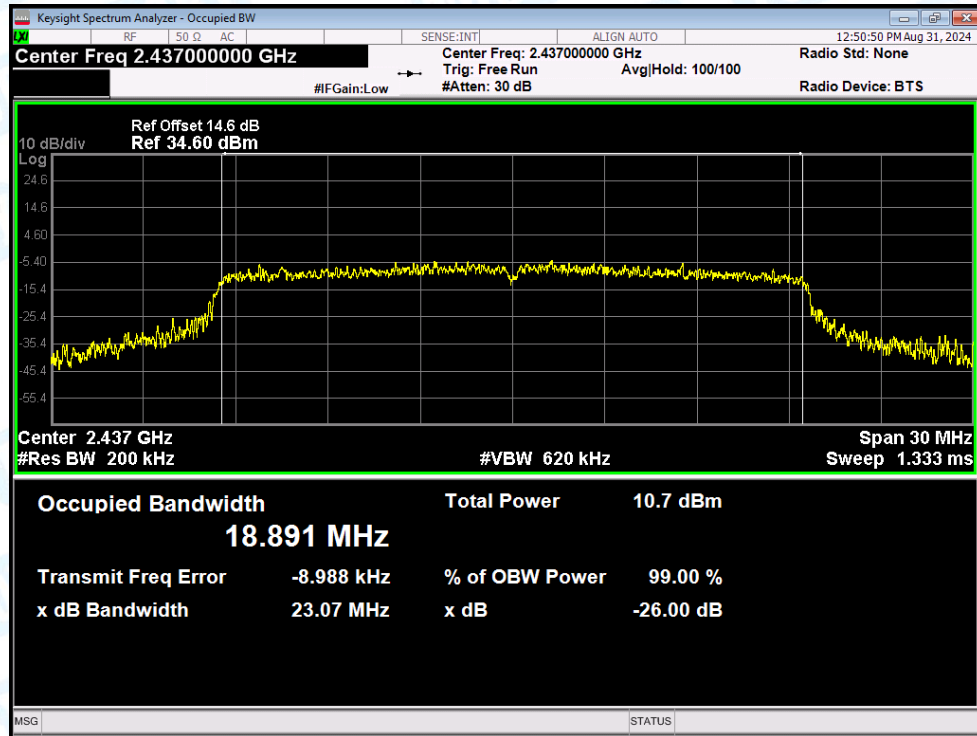
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	ax(VHT20)	2412	Ant1	18.942
NVNT	ax(VHT20)	2437	Ant1	18.891
NVNT	ax(VHT20)	2462	Ant1	18.904
NVNT	ax(VHT40)	2422	Ant1	37.619
NVNT	ax(VHT40)	2437	Ant1	37.647
NVNT	ax(VHT40)	2452	Ant1	37.64
NVNT	b	2412	Ant1	11.596
NVNT	b	2437	Ant1	11.654
NVNT	b	2462	Ant1	11.626
NVNT	g	2412	Ant1	16.518
NVNT	g	2437	Ant1	16.544
NVNT	g	2462	Ant1	16.552
NVNT	n(HT20)	2412	Ant1	17.655
NVNT	n(HT20)	2437	Ant1	17.697
NVNT	n(HT20)	2462	Ant1	17.695
NVNT	n(HT40)	2422	Ant1	36.213
NVNT	n(HT40)	2437	Ant1	36.156
NVNT	n(HT40)	2452	Ant1	36.169

Test Graphs

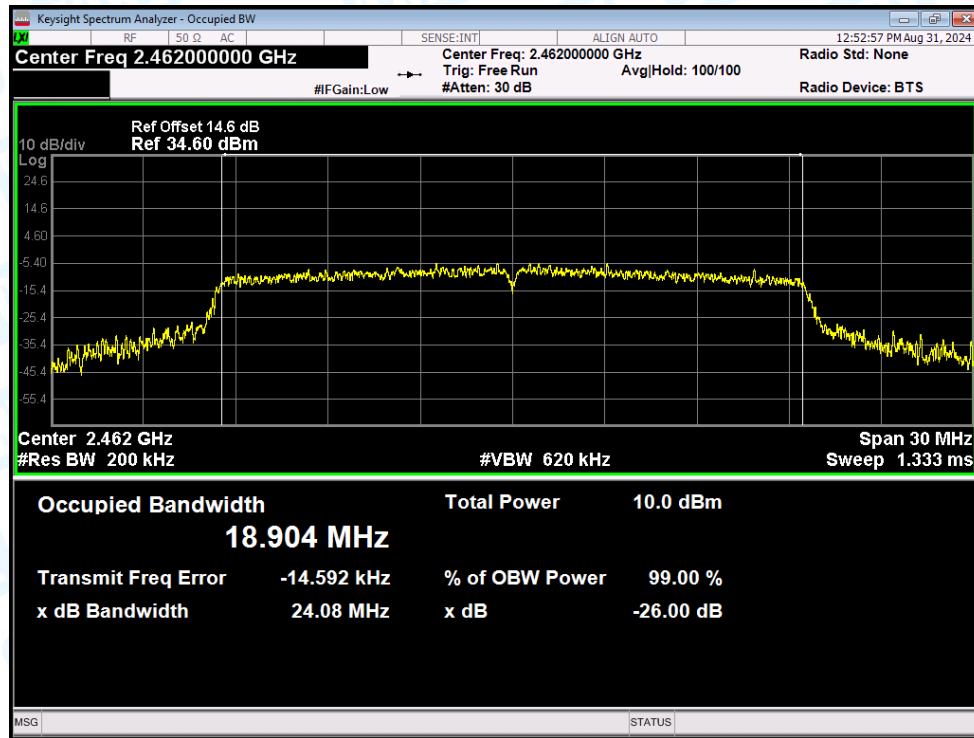
OBW NVNT ax(VHT20) 2412MHz Ant1



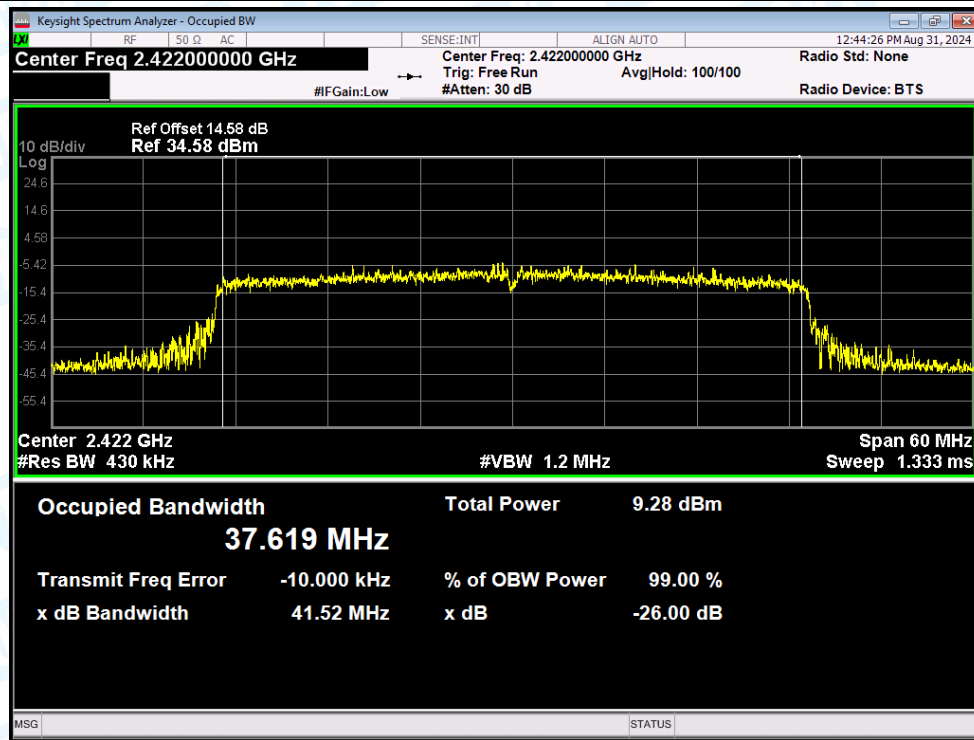
OBW NVNT ax(VHT20) 2437MHz Ant1



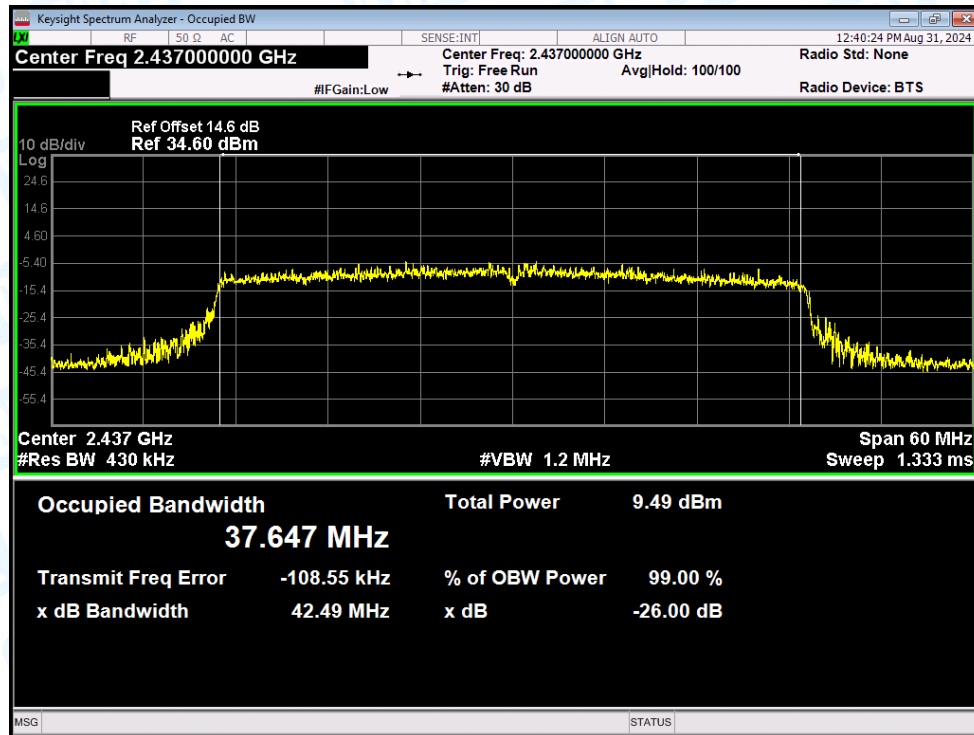
OBW NVNT ax(VHT20) 2462MHz Ant1



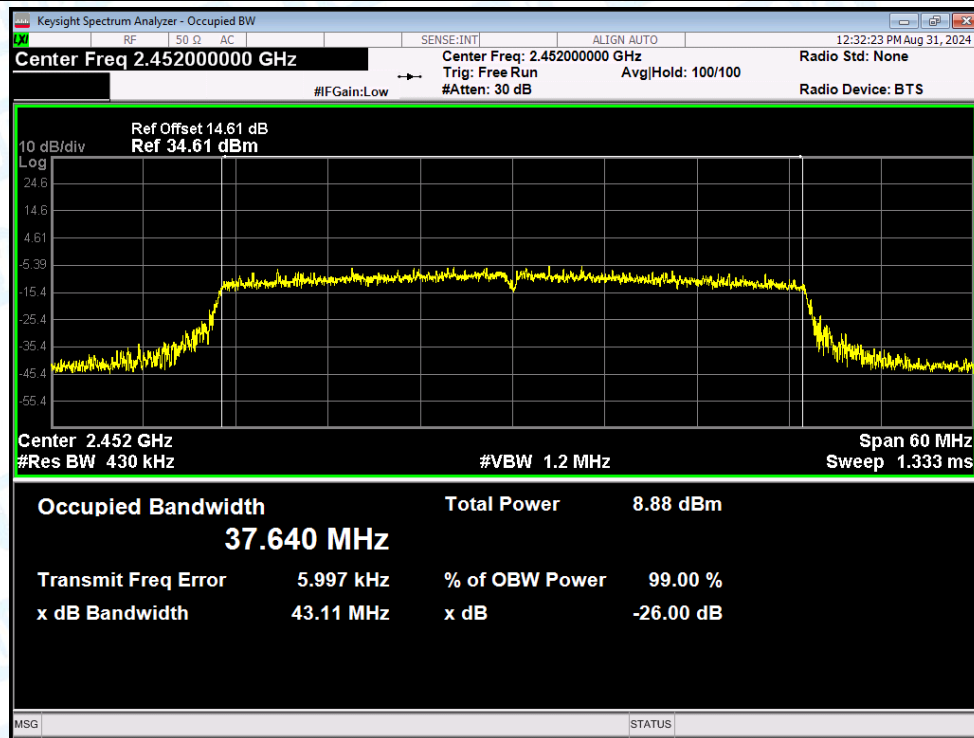
OBW NVNT ax(VHT40) 2422MHz Ant1

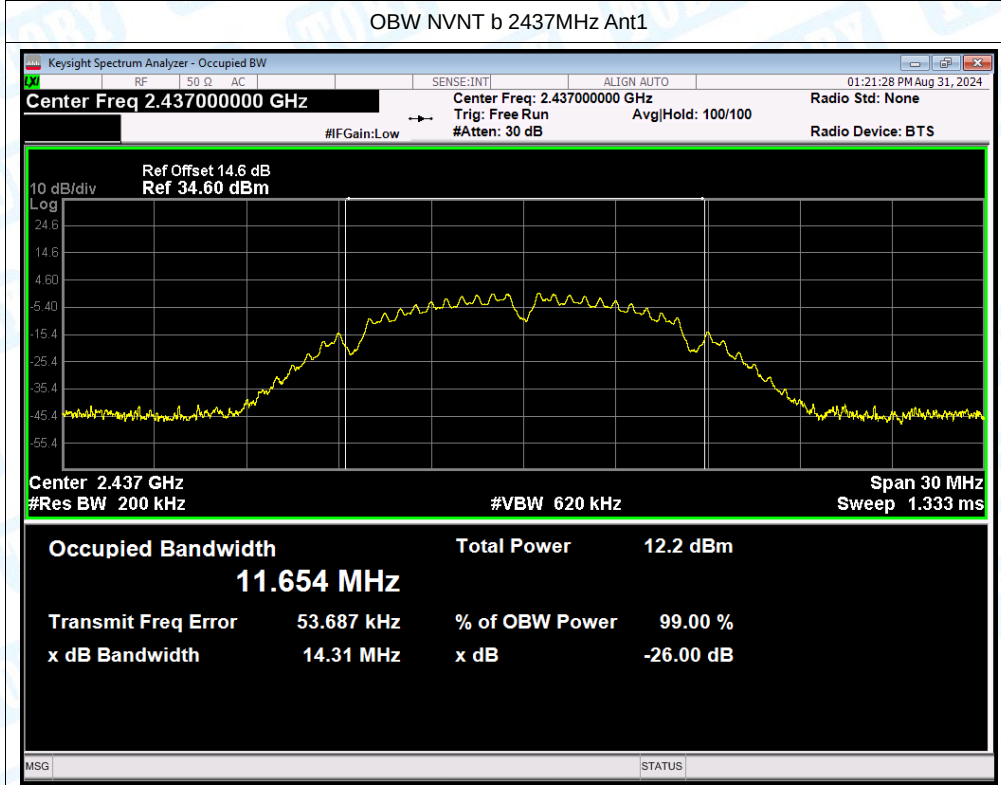
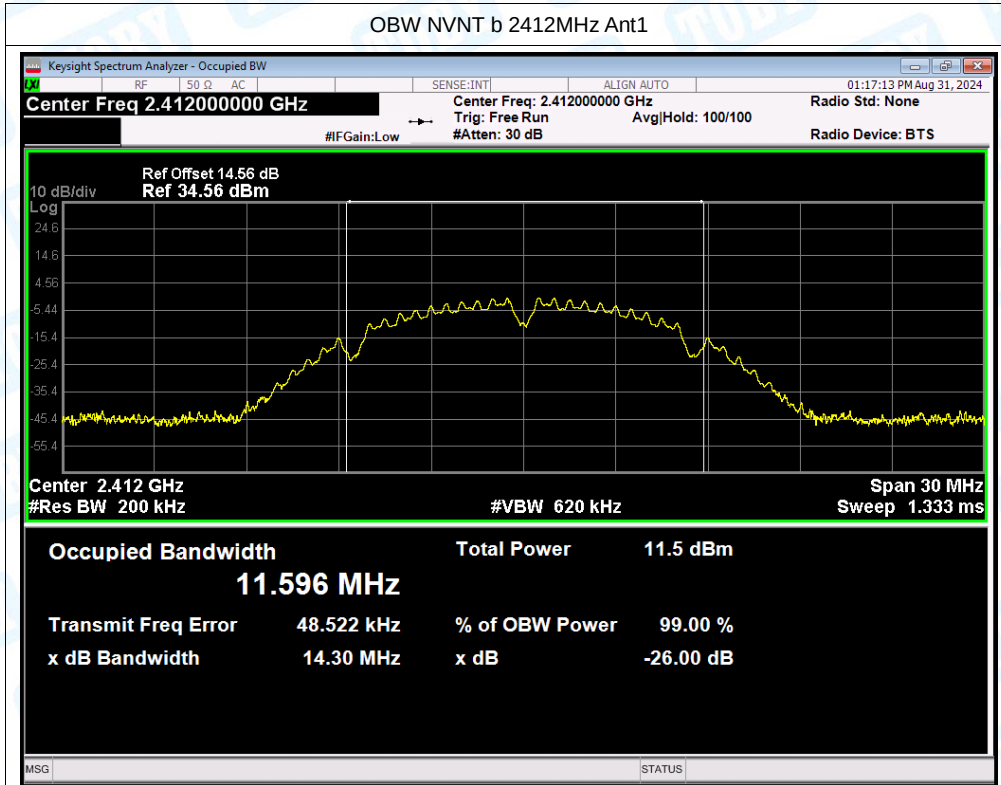


OBW NVNT ax(VHT40) 2437MHz Ant1

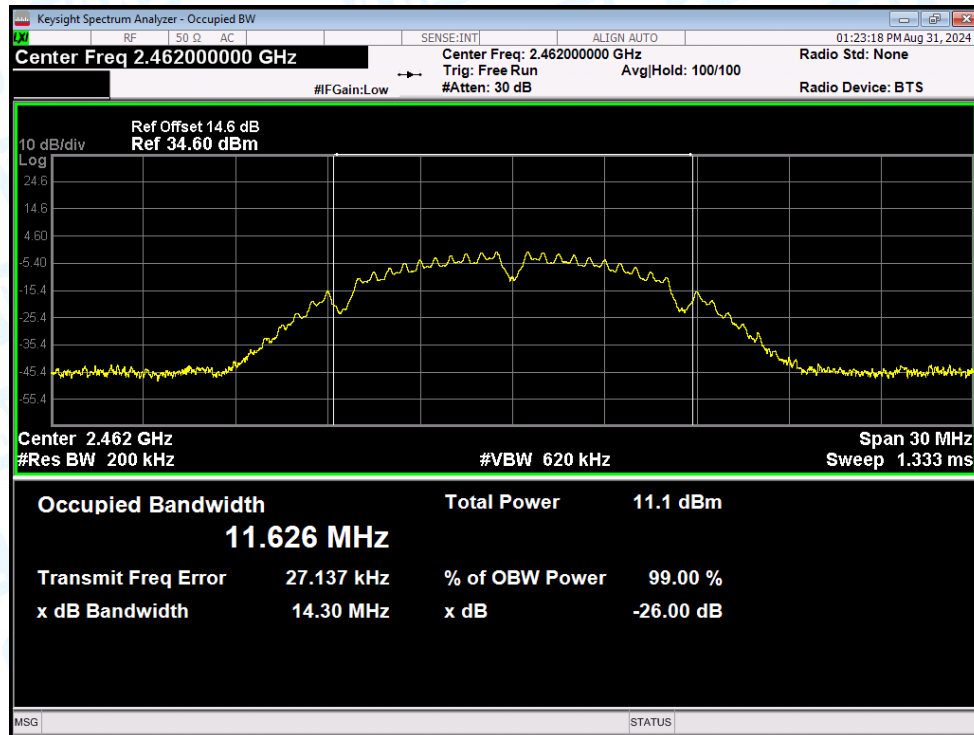


OBW NVNT ax(VHT40) 2452MHz Ant1

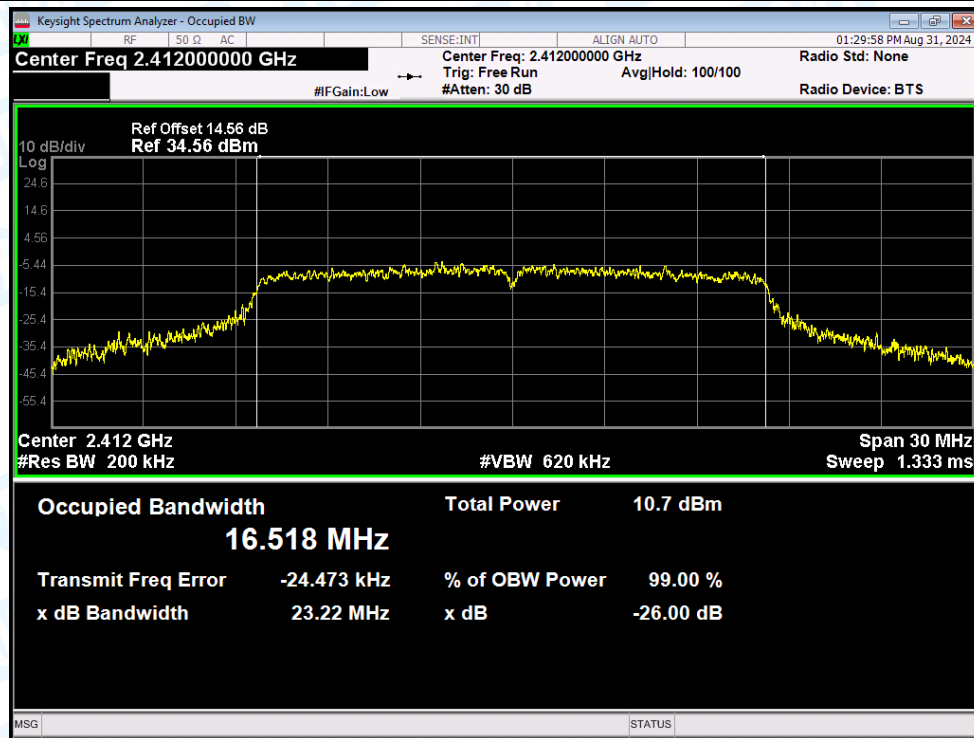




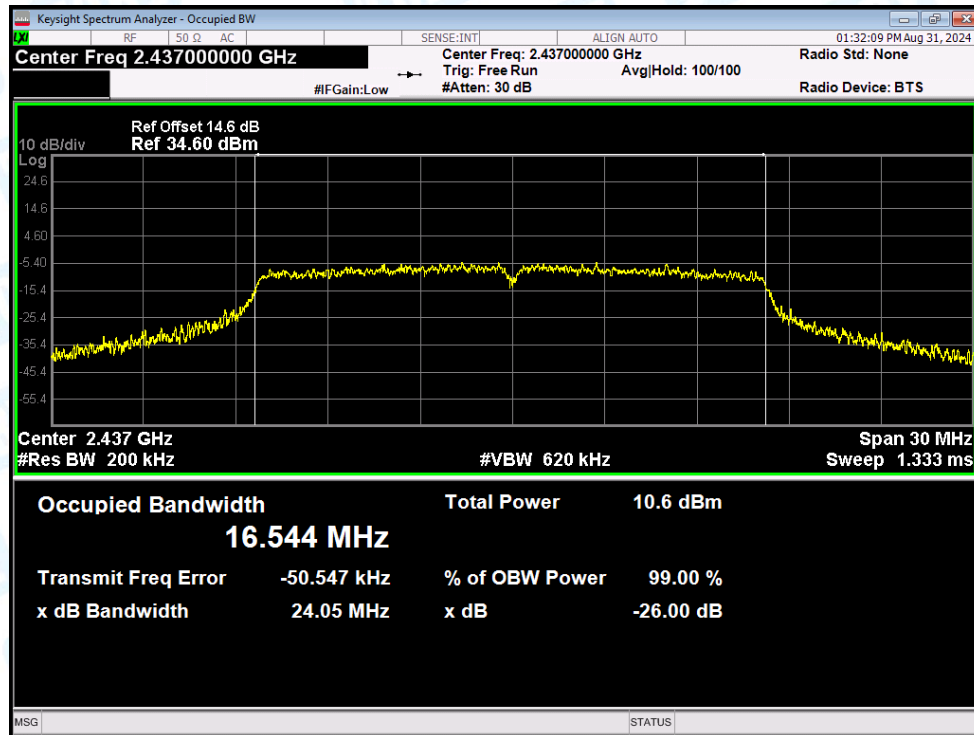
OBW NVNT b 2462MHz Ant1



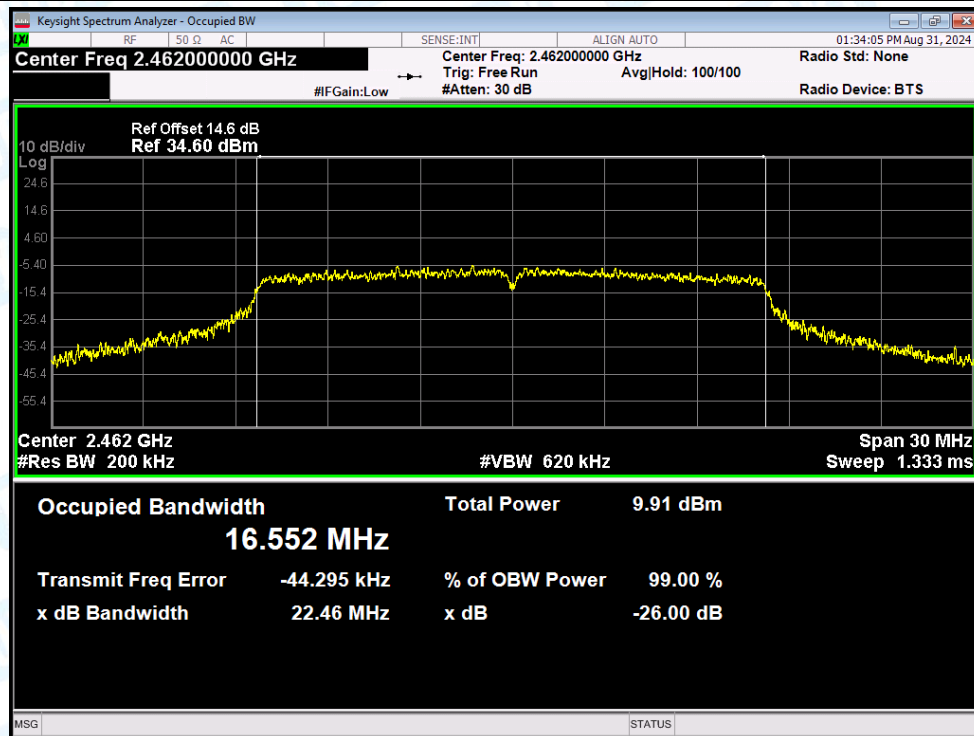
OBW NVNT g 2412MHz Ant1



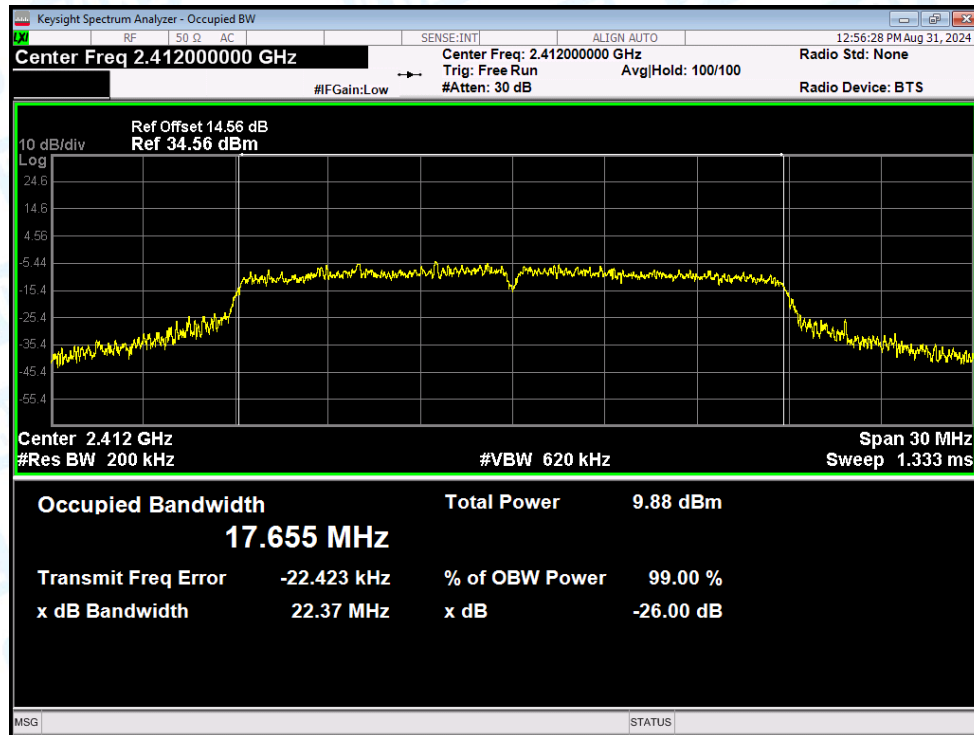
OBW NVNT g 2437MHz Ant1



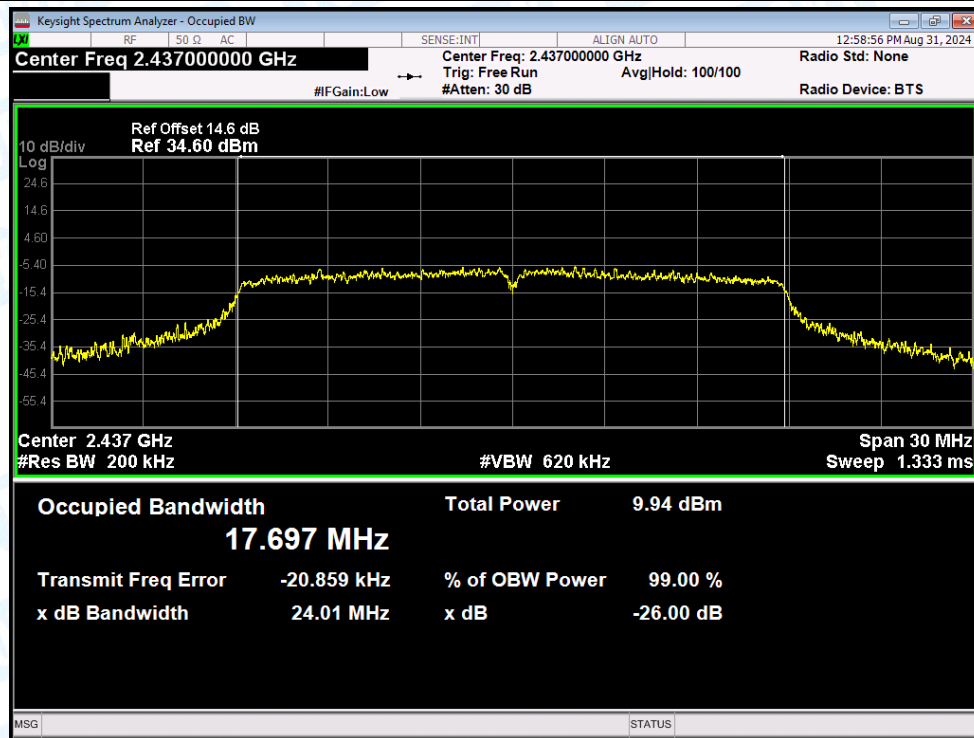
OBW NVNT g 2462MHz Ant1



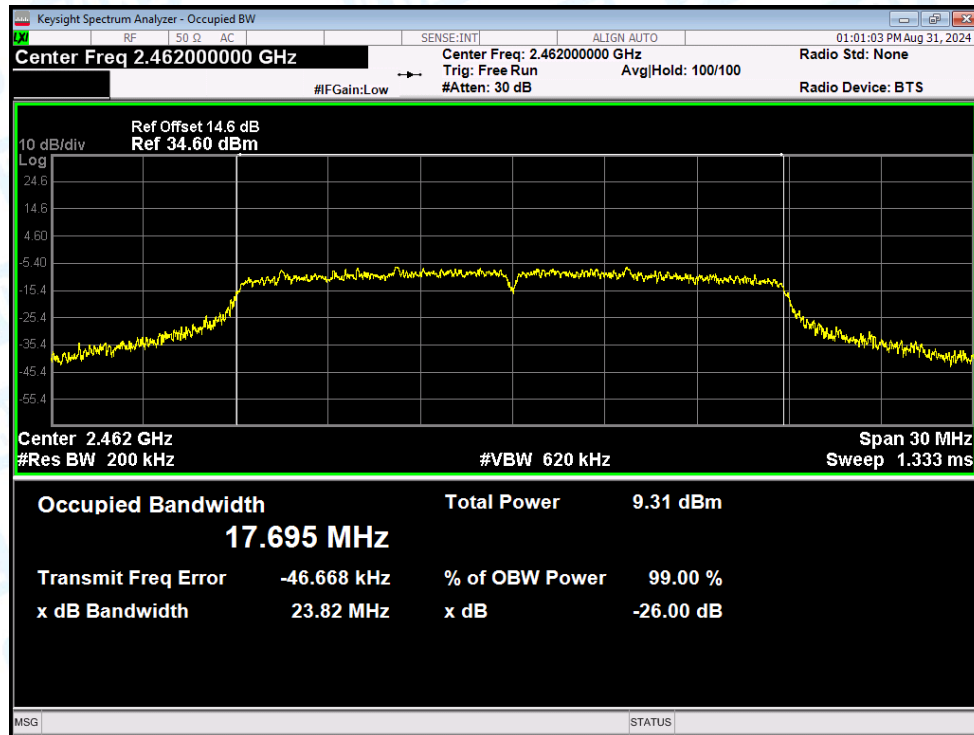
OBW NVNT n(HT20) 2412MHz Ant1



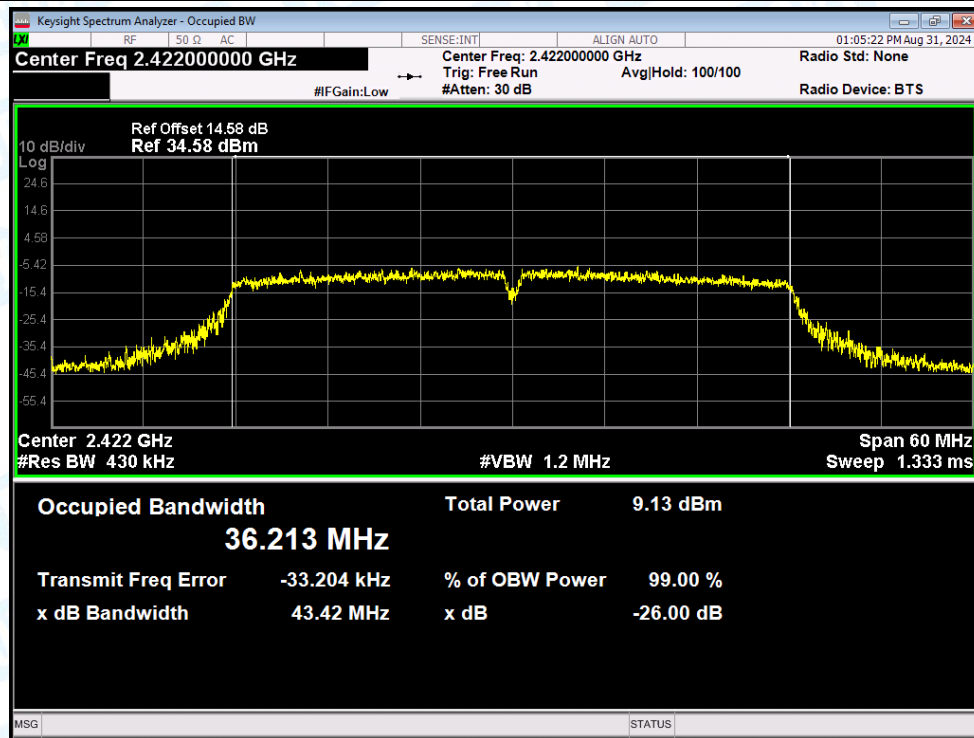
OBW NVNT n(HT20) 2437MHz Ant1



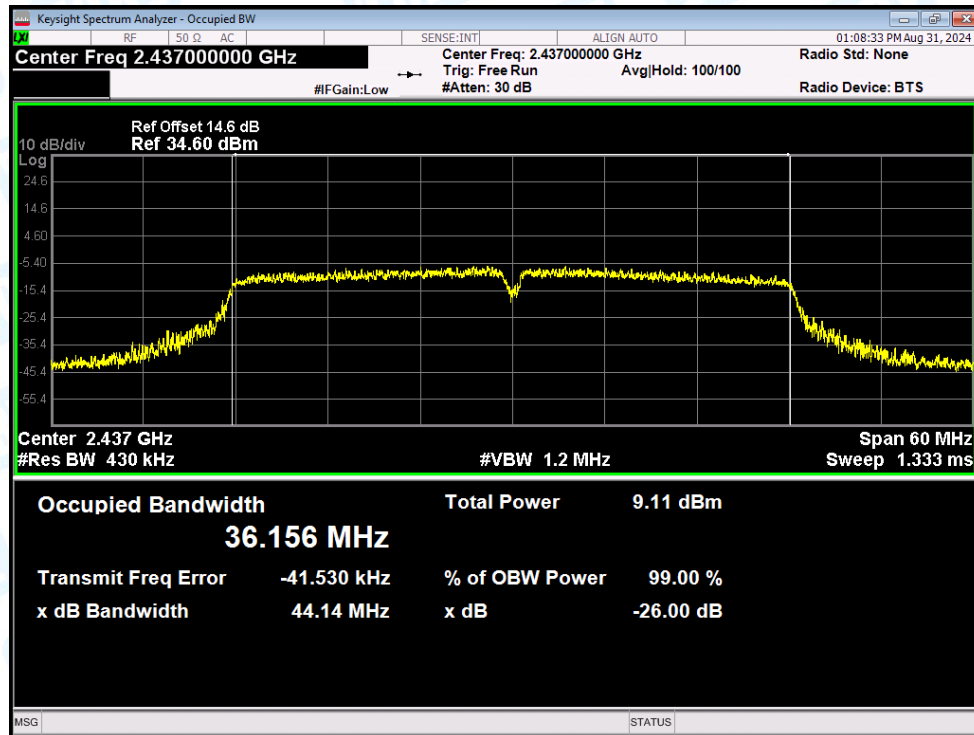
OBW NVNT n(HT20) 2462MHz Ant1



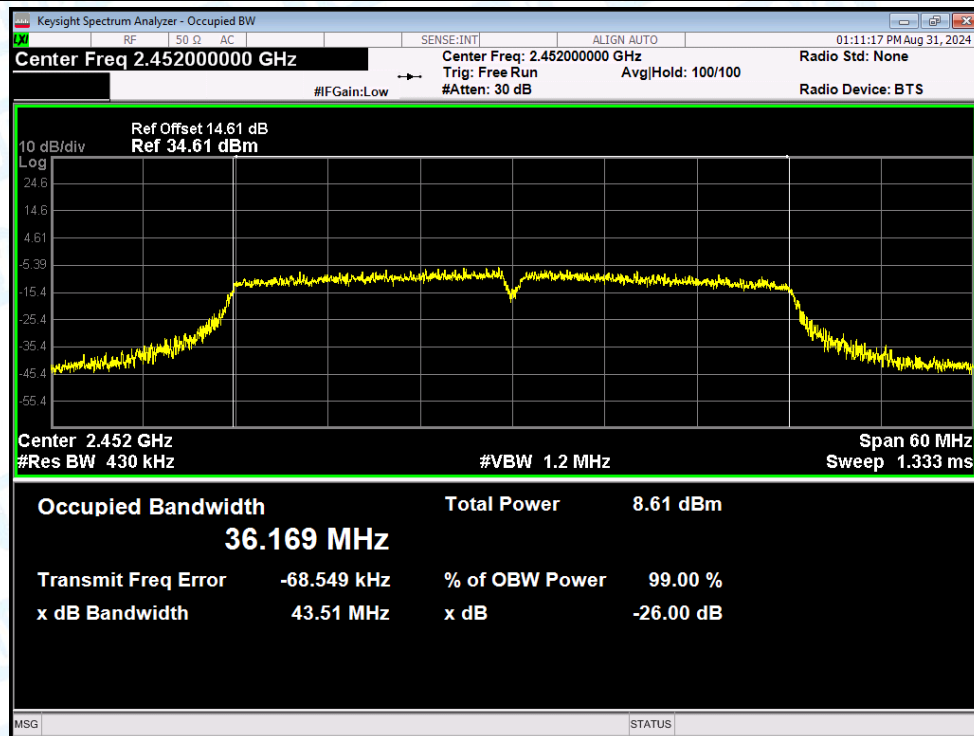
OBW NVNT n(HT40) 2422MHz Ant1



OBW NVNT n(HT40) 2437MHz Ant1



OBW NVNT n(HT40) 2452MHz Ant1



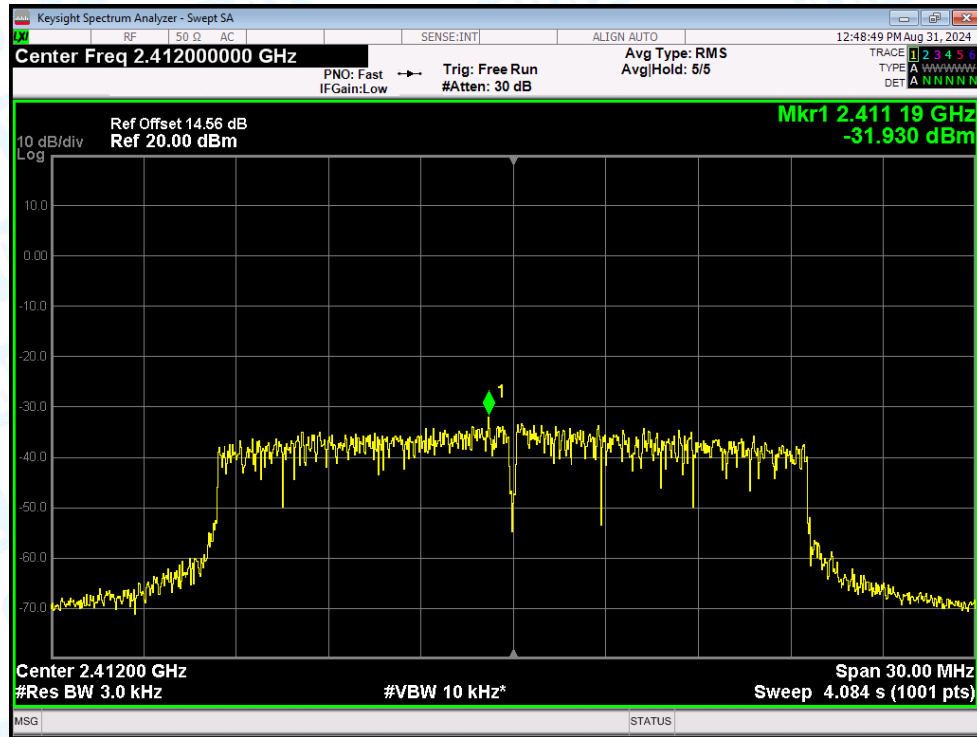
5. Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	ax(VHT20)	2412	Ant1	-31.93	8	Pass
NVNT	ax(VHT20)	2437	Ant1	-32.569	8	Pass
NVNT	ax(VHT20)	2462	Ant1	-33.432	8	Pass
NVNT	ax(VHT40)	2422	Ant1	-39.603	8	Pass
NVNT	ax(VHT40)	2437	Ant1	-38.03	8	Pass
NVNT	ax(VHT40)	2452	Ant1	-38.399	8	Pass
NVNT	b	2412	Ant1	-25.307	8	Pass
NVNT	b	2437	Ant1	-24.288	8	Pass
NVNT	b	2462	Ant1	-25.06	8	Pass
NVNT	g	2412	Ant1	-30.398	8	Pass
NVNT	g	2437	Ant1	-29.87	8	Pass
NVNT	g	2462	Ant1	-30.47	8	Pass
NVNT	n(HT20)	2412	Ant1	-31.461	8	Pass
NVNT	n(HT20)	2437	Ant1	-30.766	8	Pass
NVNT	n(HT20)	2462	Ant1	-31.61	8	Pass
NVNT	n(HT40)	2422	Ant1	-36.249	8	Pass
NVNT	n(HT40)	2437	Ant1	-36.343	8	Pass
NVNT	n(HT40)	2452	Ant1	-36.596	8	Pass

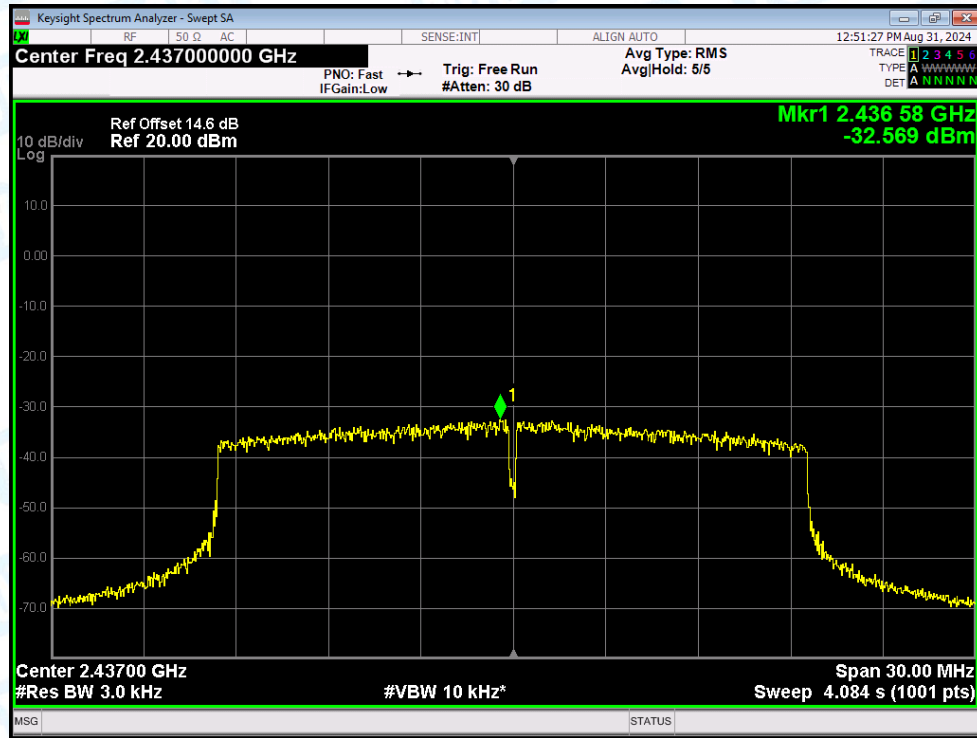
Note: The duty factor has been compensated into the result.

Test Graphs

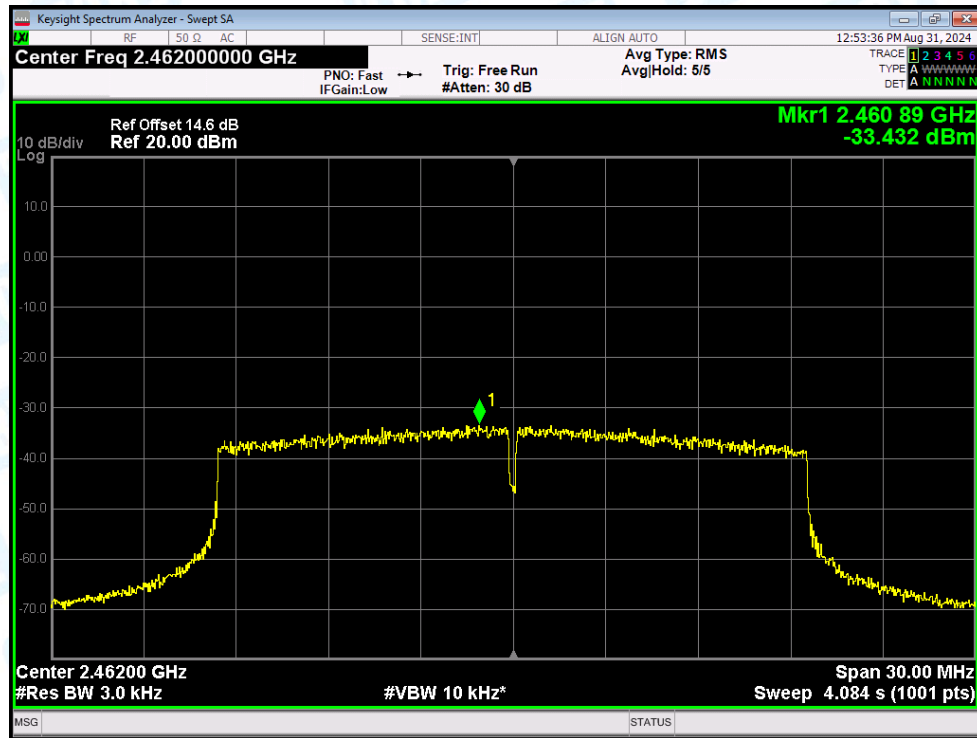
PSD NVNT ax(VHT20) 2412MHz Ant1



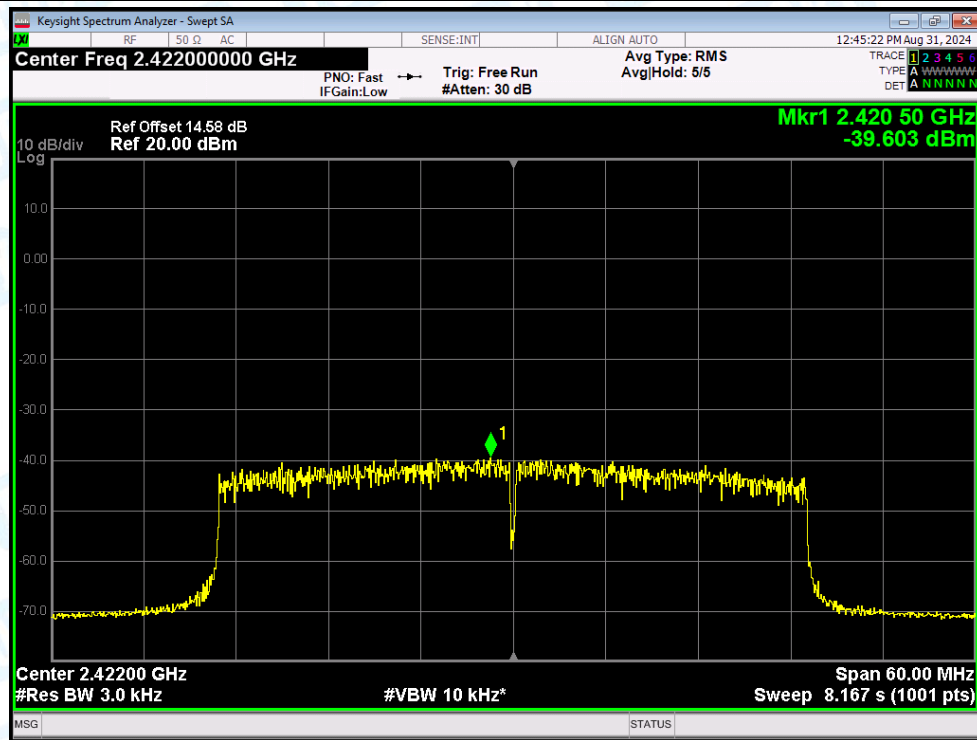
PSD NVNT ax(VHT20) 2437MHz Ant1

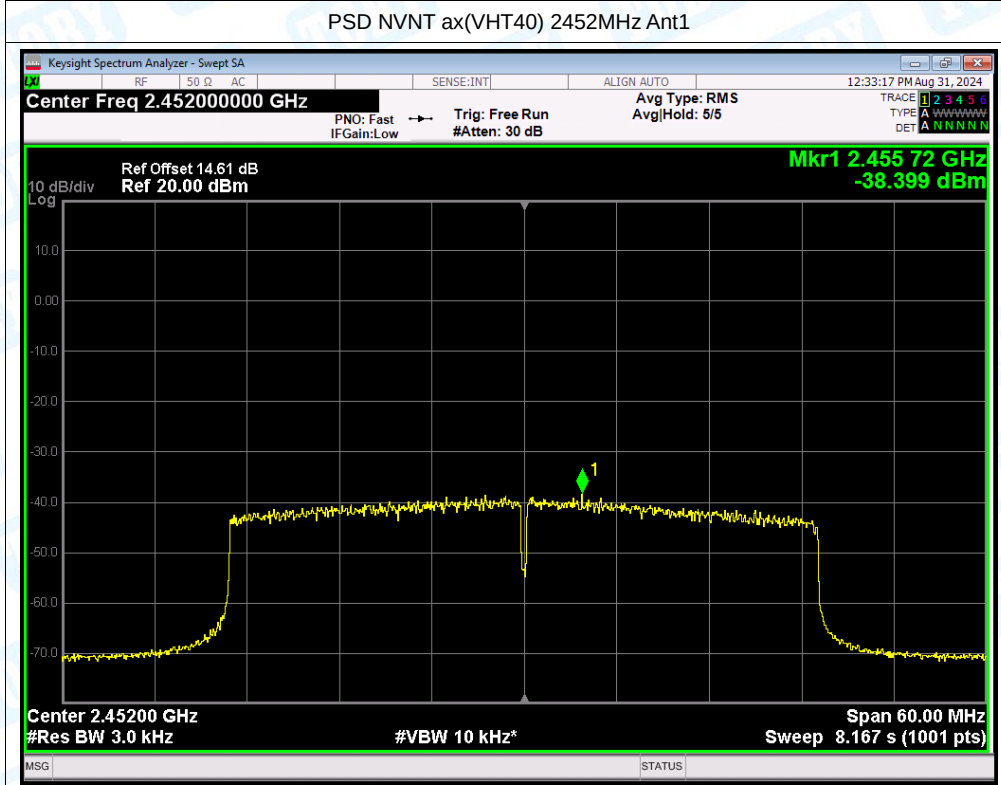
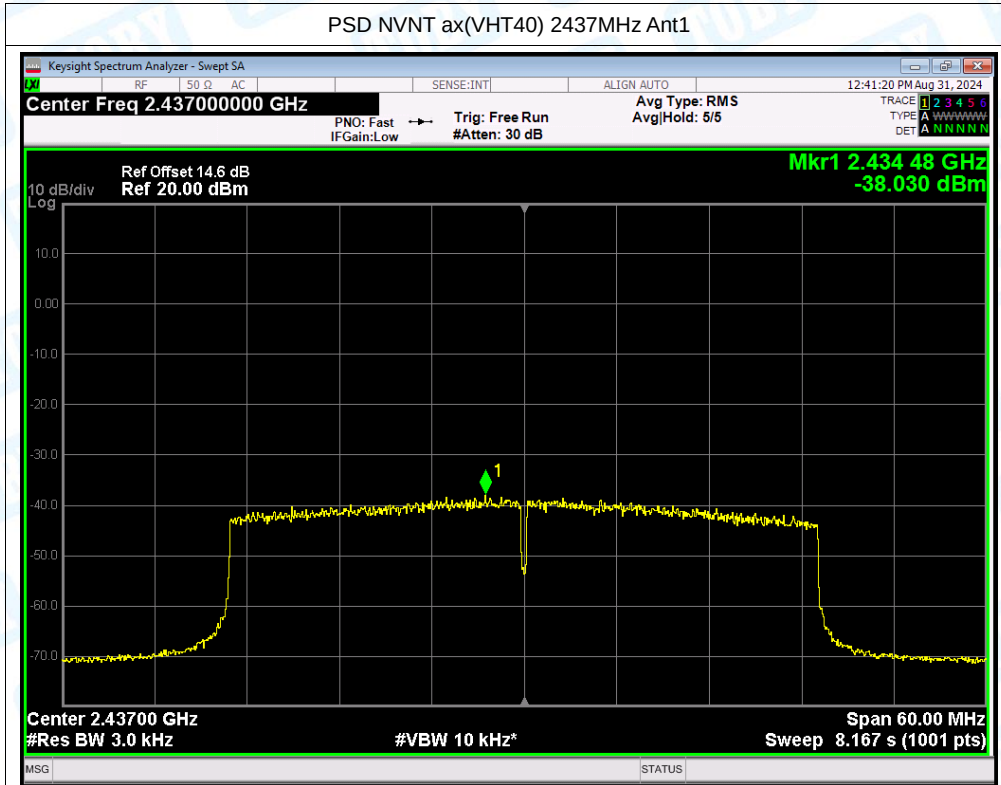


PSD NVNT ax(VHT20) 2462MHz Ant1



PSD NVNT ax(VHT40) 2422MHz Ant1

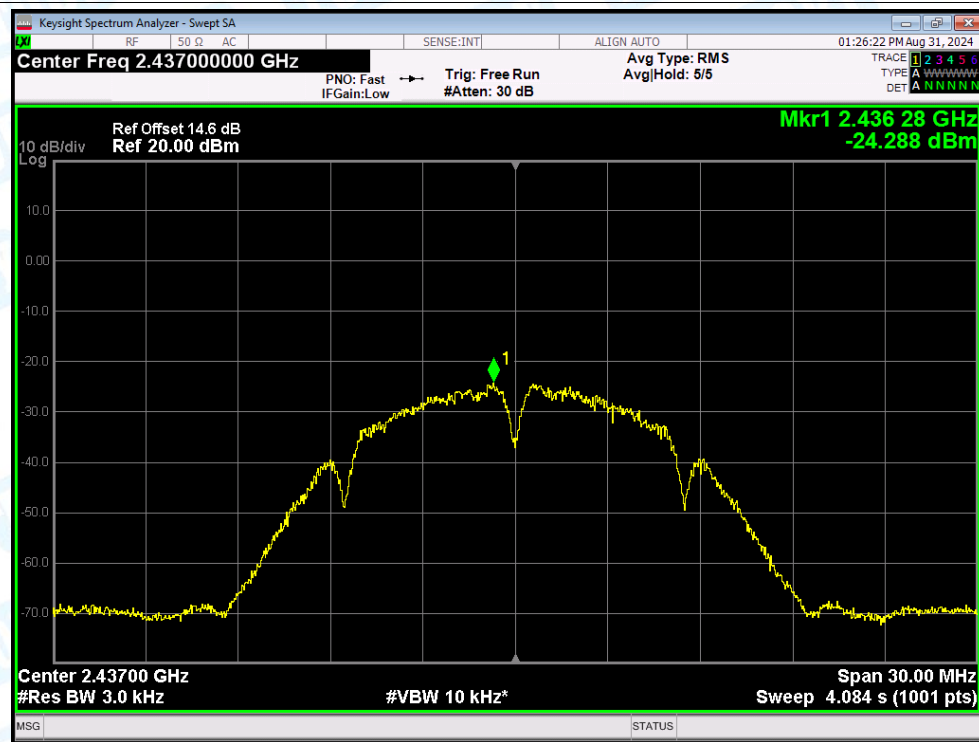


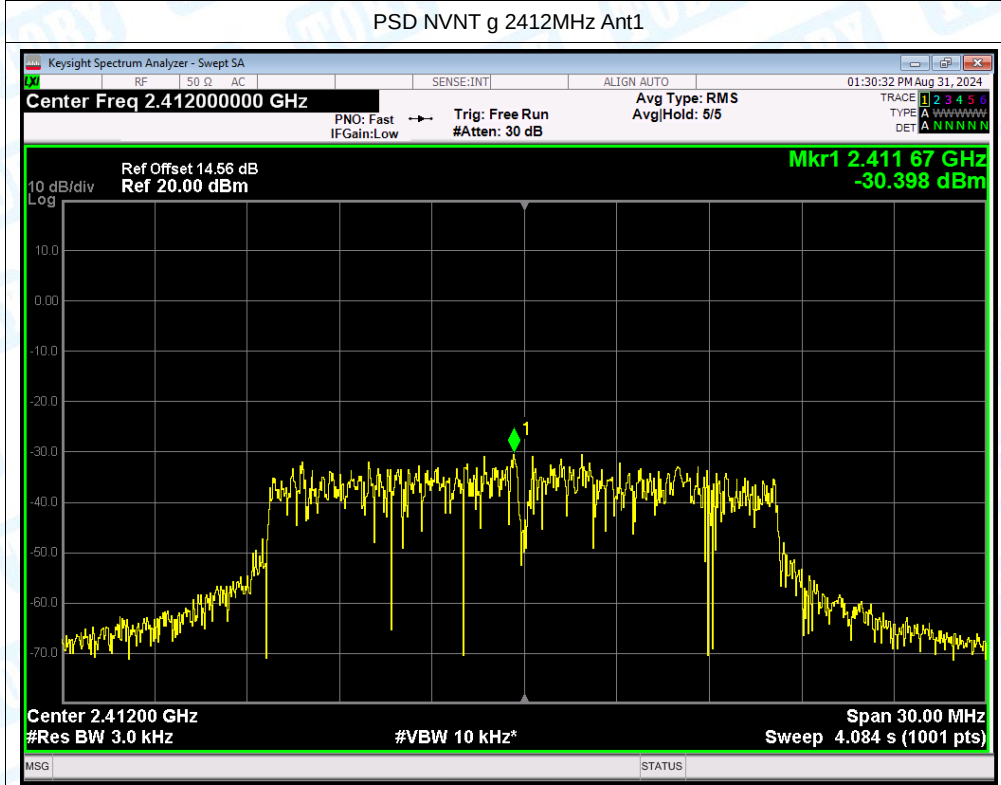
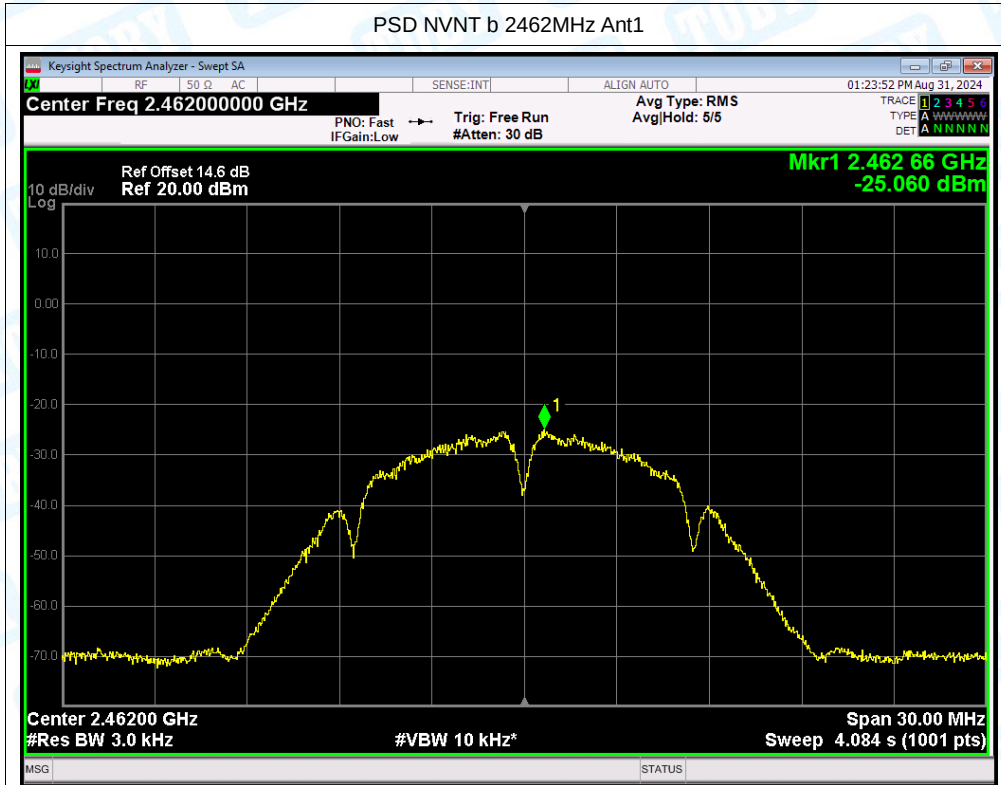


PSD NVNT b 2412MHz Ant1

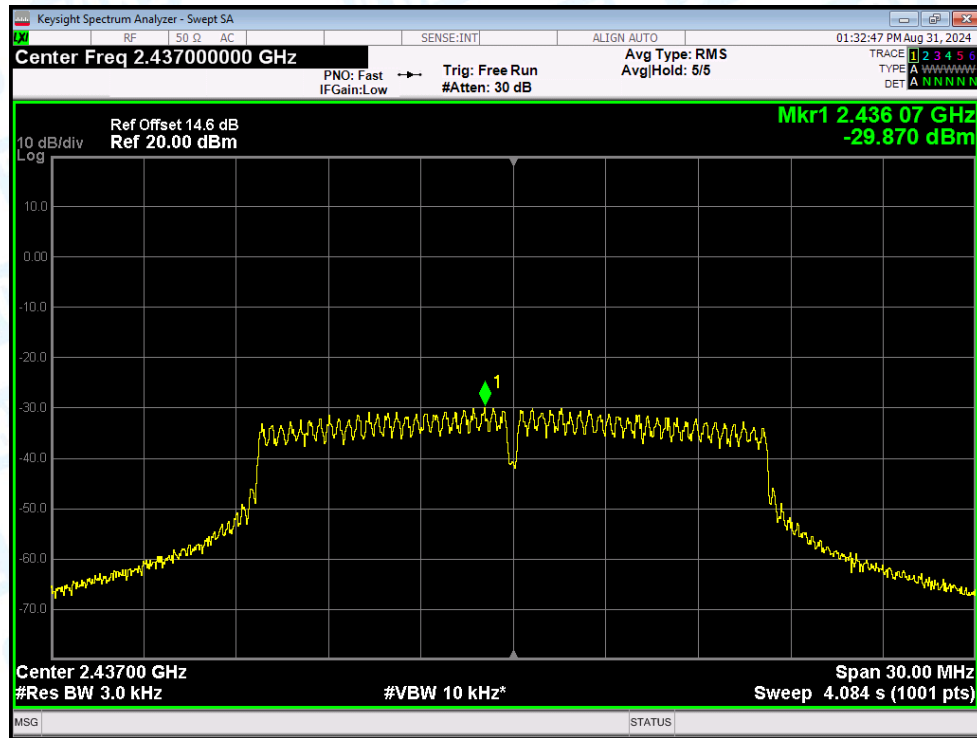


PSD NVNT b 2437MHz Ant1

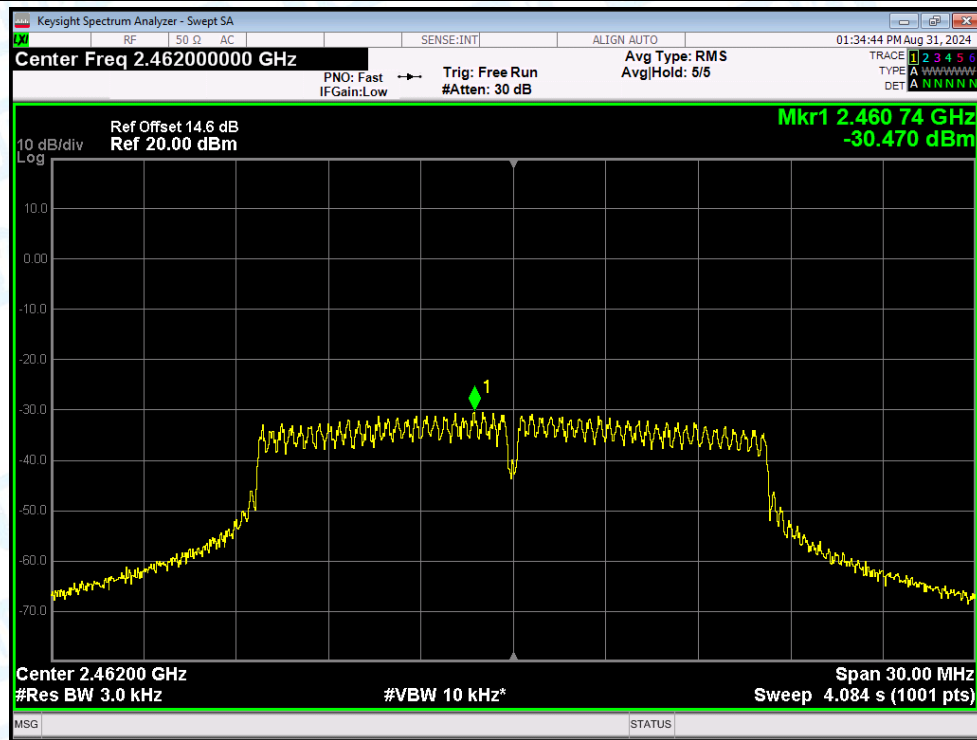




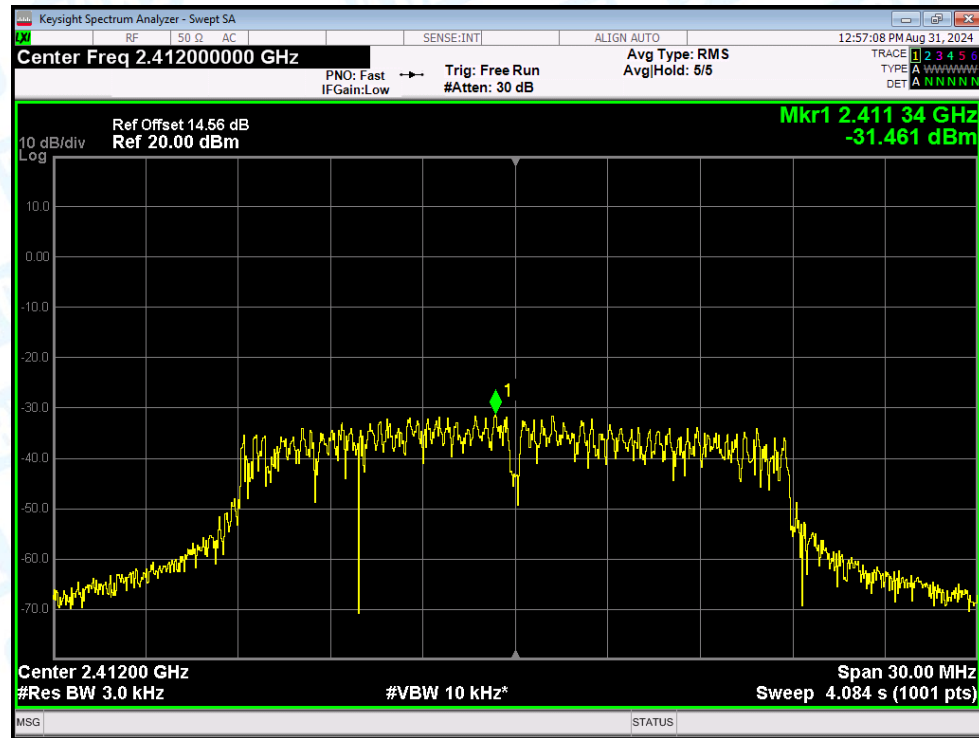
PSD NVNT g 2437MHz Ant1



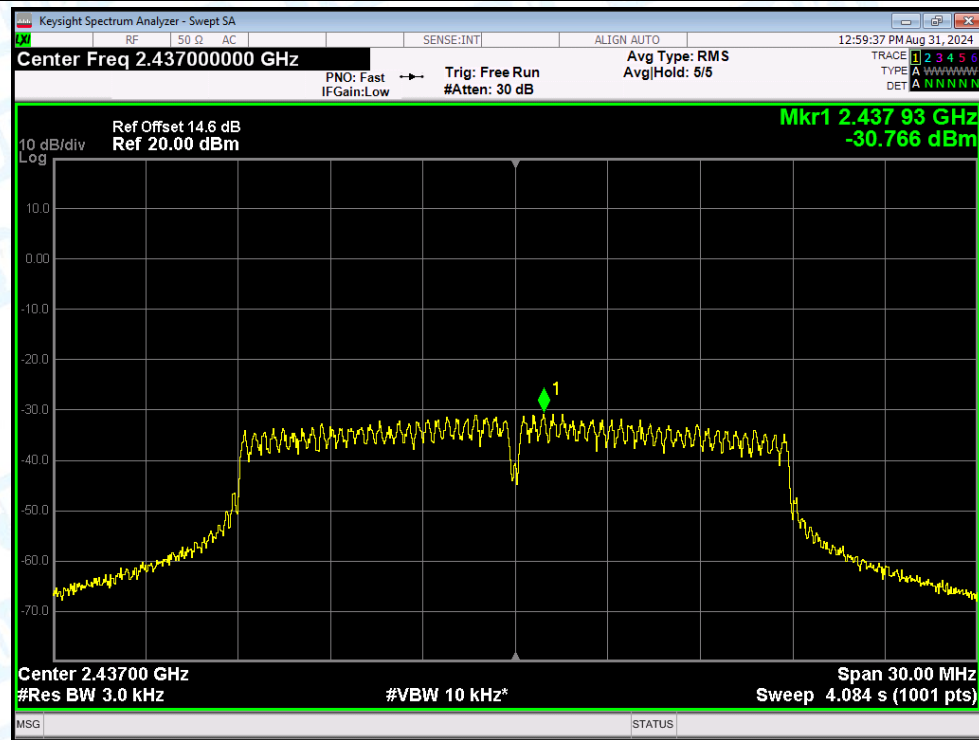
PSD NVNT g 2462MHz Ant1



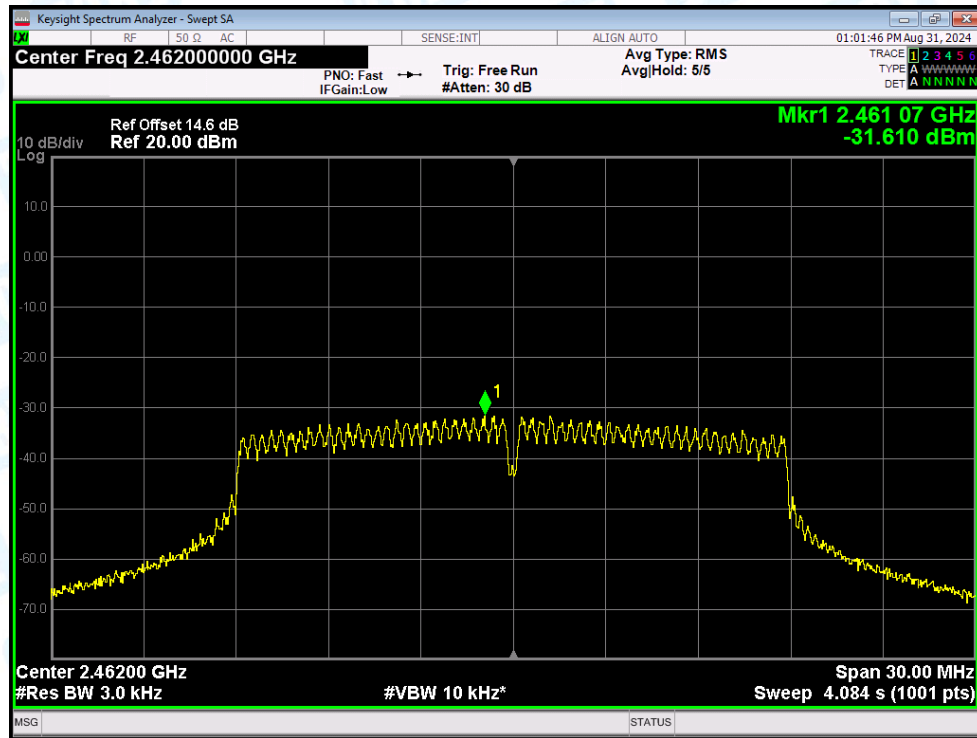
PSD NVNT n(HT20) 2412MHz Ant1



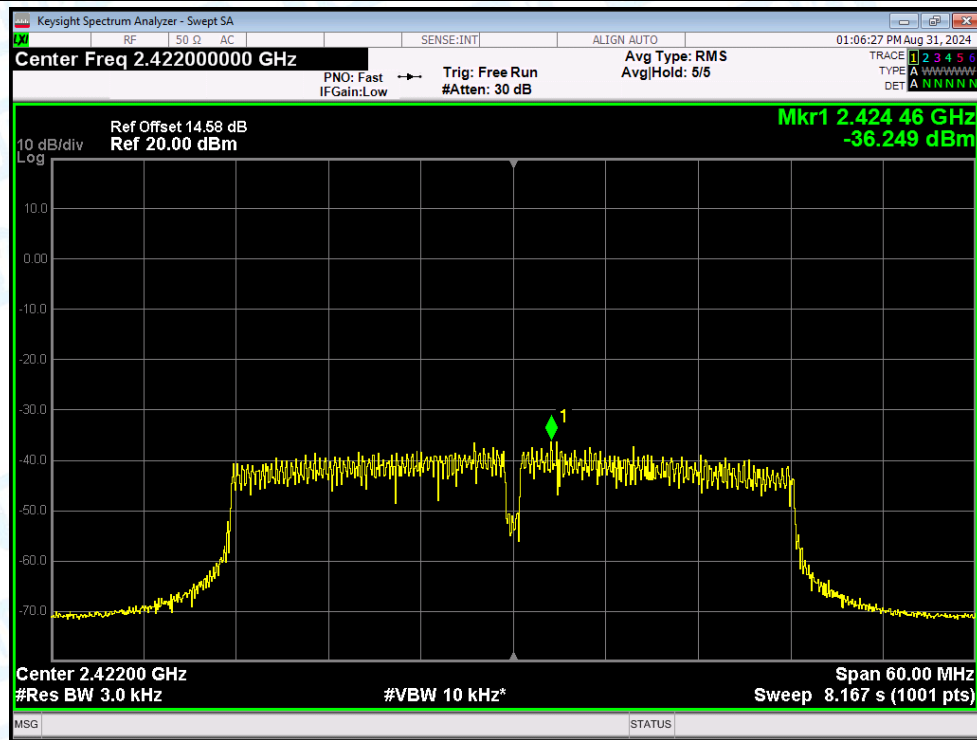
PSD NVNT n(HT20) 2437MHz Ant1



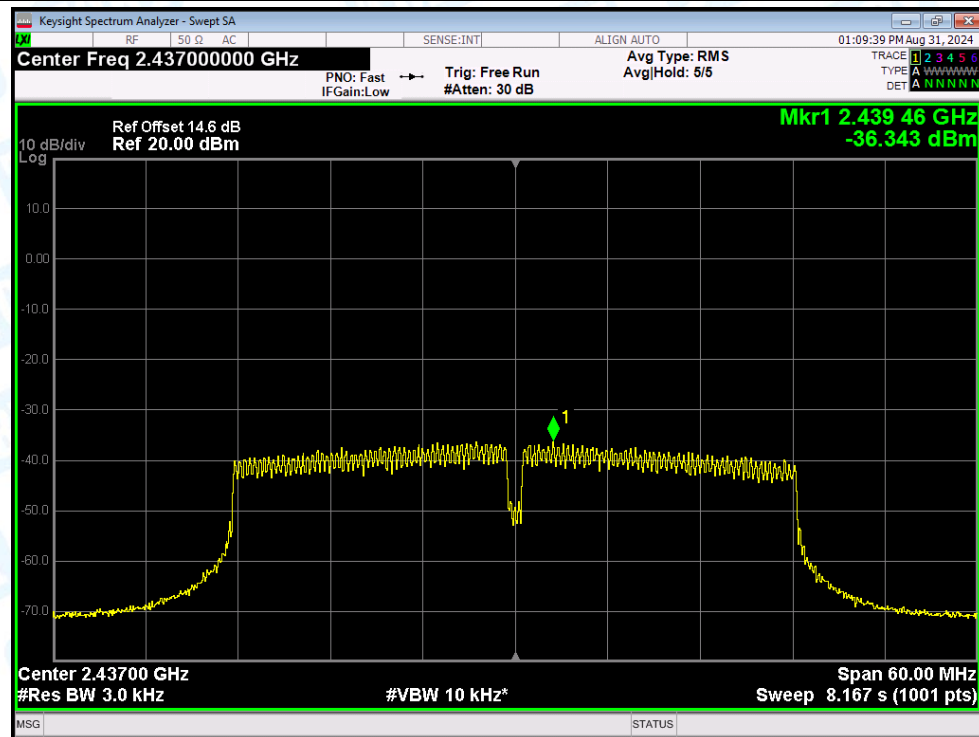
PSD NVNT n(HT20) 2462MHz Ant1



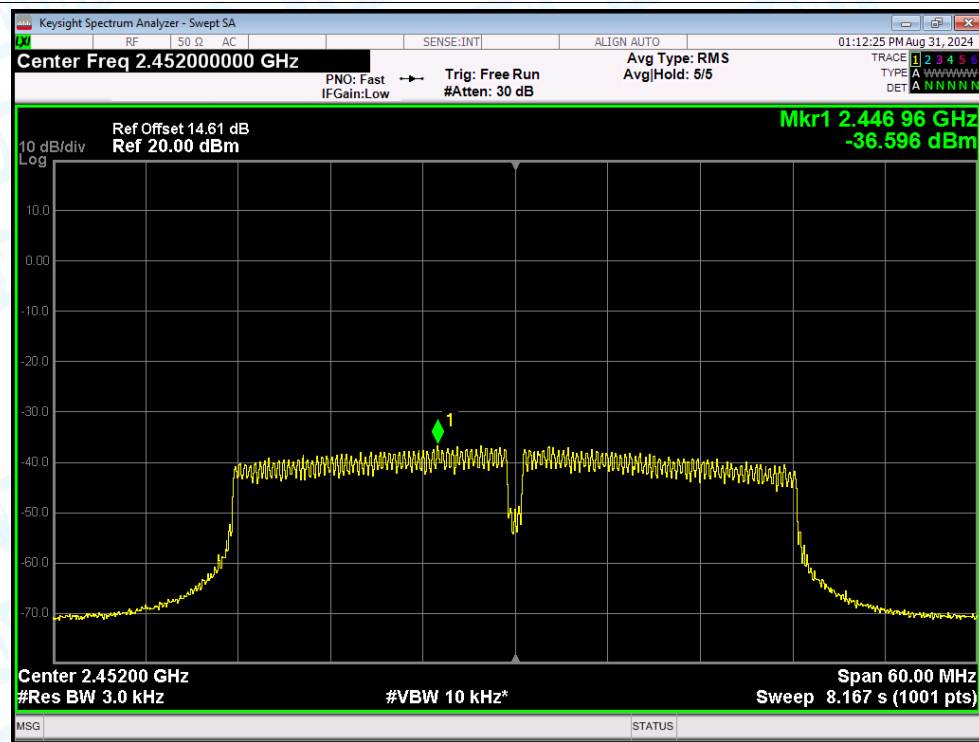
PSD NVNT n(HT40) 2422MHz Ant1



PSD NVNT n(HT40) 2437MHz Ant1



PSD NVNT n(HT40) 2452MHz Ant1

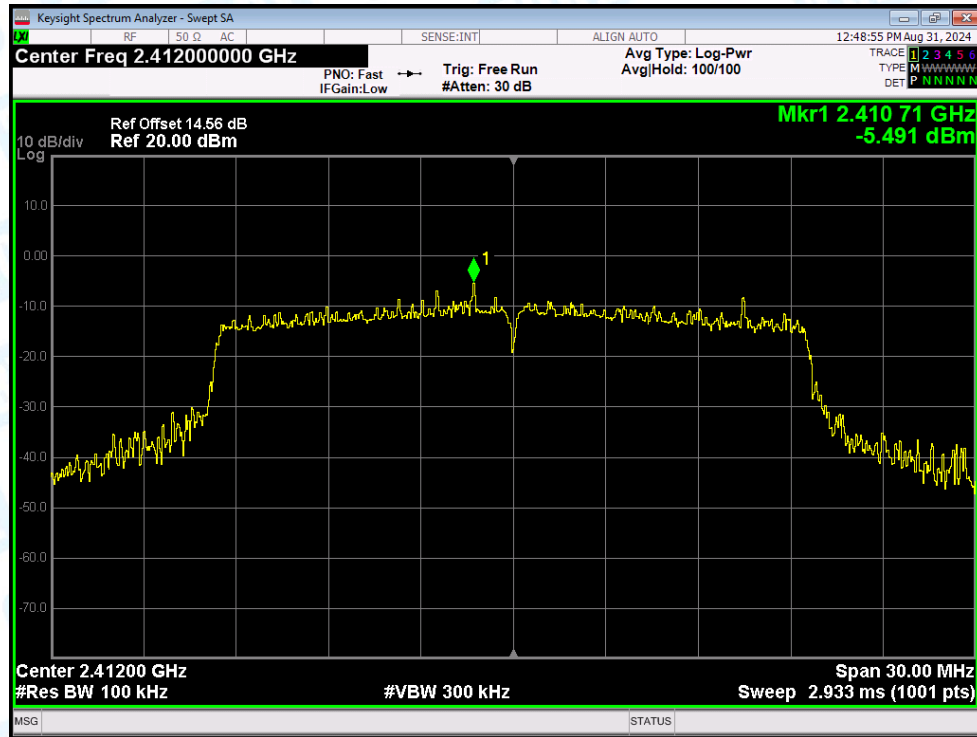


6. Band Edge

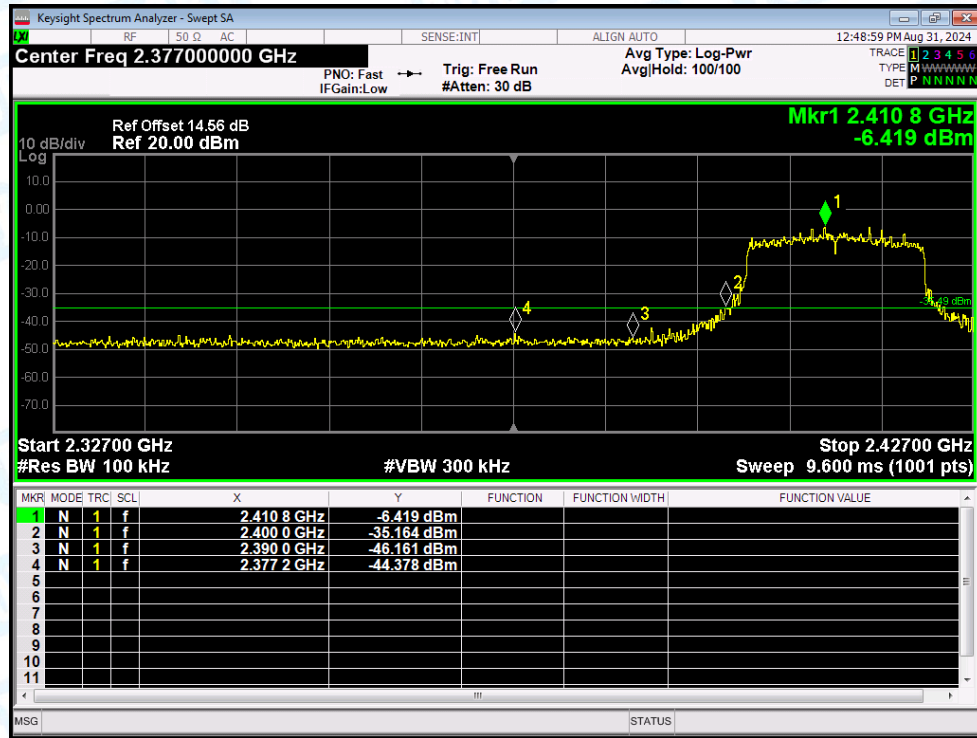
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	ax(VHT20)	2412	Ant1	-38.89	-30	Pass
NVNT	ax(VHT20)	2462	Ant1	-36.57	-30	Pass
NVNT	ax(VHT40)	2422	Ant1	-35.13	-30	Pass
NVNT	ax(VHT40)	2452	Ant1	-33.93	-30	Pass
NVNT	b	2412	Ant1	-43.41	-30	Pass
NVNT	b	2462	Ant1	-43.45	-30	Pass
NVNT	g	2412	Ant1	-39.56	-30	Pass
NVNT	g	2462	Ant1	-36.9	-30	Pass
NVNT	n(HT20)	2412	Ant1	-38.49	-30	Pass
NVNT	n(HT20)	2462	Ant1	-35.06	-30	Pass
NVNT	n(HT40)	2422	Ant1	-35.6	-30	Pass
NVNT	n(HT40)	2452	Ant1	-33.64	-30	Pass

Test Graphs

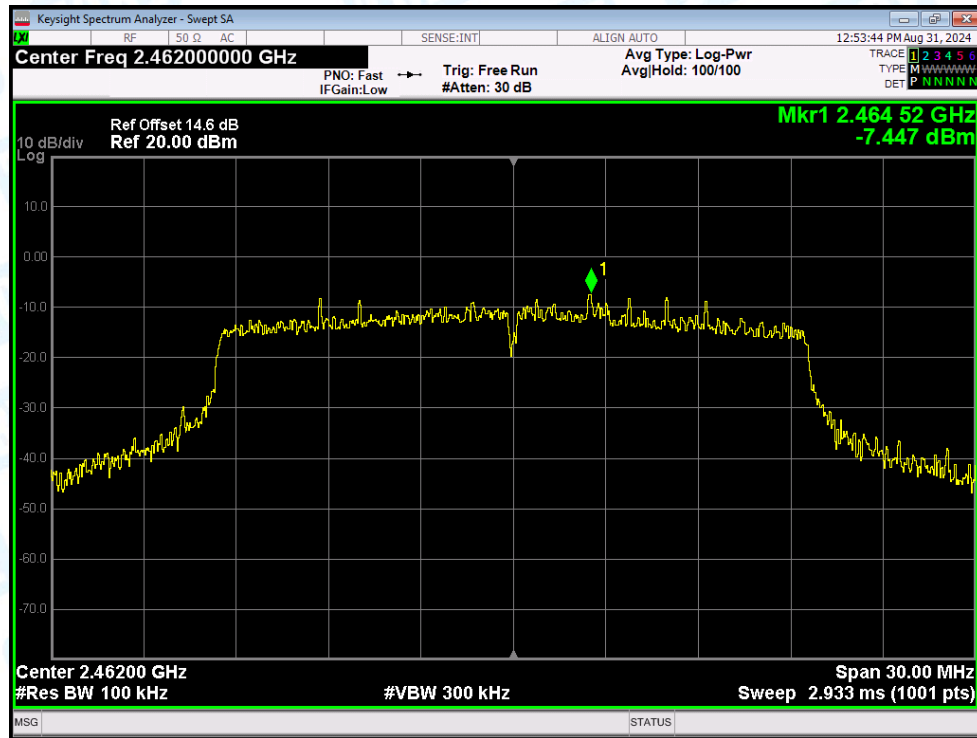
Band Edge NVNT ax(VHT20) 2412MHz Ant1 Ref



Band Edge NVNT ax(VHT20) 2412MHz Ant1 Emission



Band Edge NVNT ax(VHT20) 2462MHz Ant1 Ref



Band Edge NVNT ax(VHT20) 2462MHz Ant1 Emission

