

RF Test Data for 2.4G WiFi (Conducted Measurements)

General Description of EUT	
Product Name:	Security Indoor Cam
Test Model:	CM-C2U
Sample ID:	HC-C-202412-0172-01-01
Environmental Conditions	
Temperature:	24.6℃
Relative Humidity:	48.6%
Test Voltage:	DC 5V
Test Engineer:	Rick chen
Note: For a more detailed features description, please refer to the report TBR-C-202412-0172-11 The report only show the worst case data.	

Contents

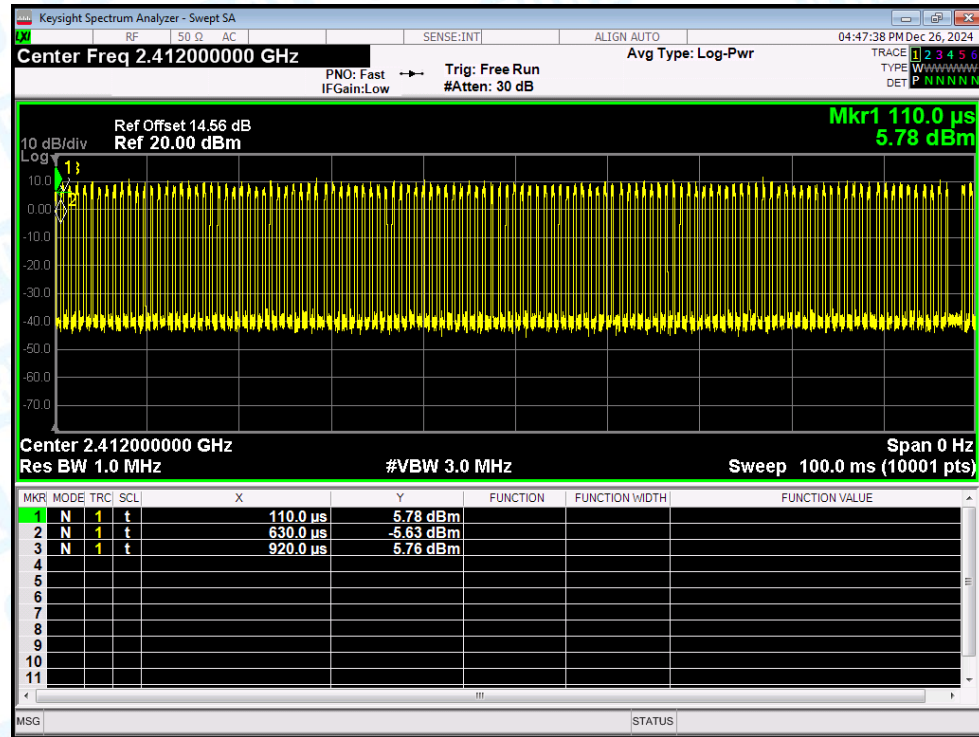
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1. Duty Cycle

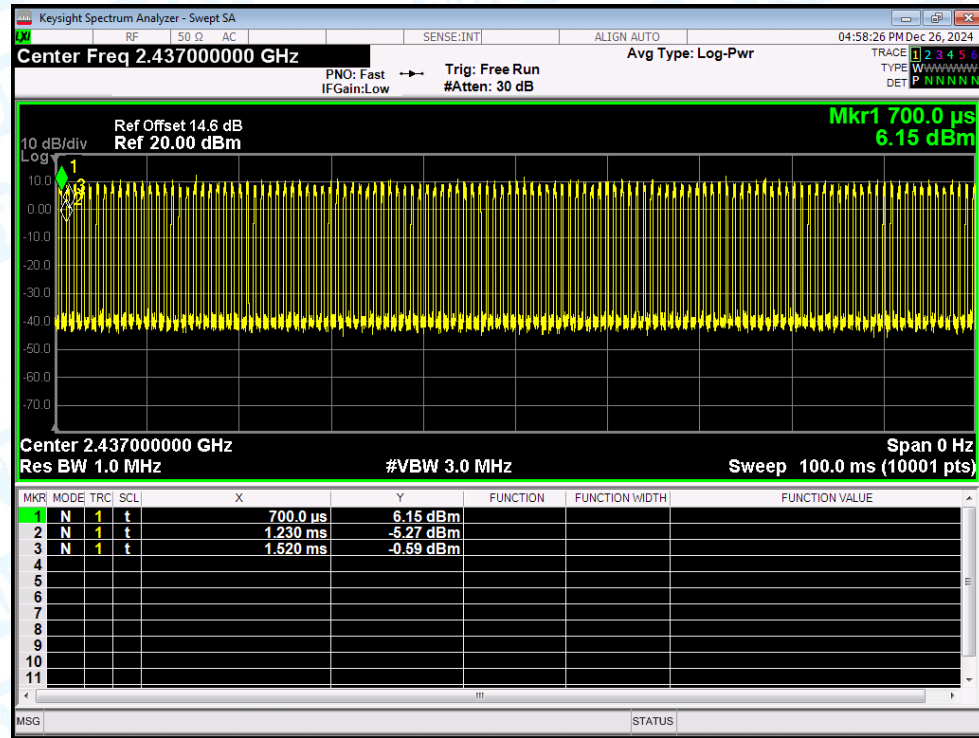
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	ax(VHT20)	2412	Ant1	35.8	4.46	3.45
NVNT	ax(VHT20)	2437	Ant1	35.37	4.51	3.45
NVNT	ax(VHT20)	2462	Ant1	34.57	4.61	3.57
NVNT	ax(VHT40)	2422	Ant1	35	4.56	3.57
NVNT	ax(VHT40)	2437	Ant1	34.57	4.61	3.57
NVNT	ax(VHT40)	2452	Ant1	35.8	4.46	3.45
NVNT	b	2412	Ant1	94.29	0.26	0.12
NVNT	b	2437	Ant1	94.18	0.26	0.12
NVNT	b	2462	Ant1	94.18	0.26	0.12
NVNT	g	2412	Ant1	72.92	1.37	0.71
NVNT	g	2437	Ant1	72.92	1.37	0.71
NVNT	g	2462	Ant1	72.92	1.37	0.71
NVNT	n(HT20)	2412	Ant1	50.47	2.97	1.85
NVNT	n(HT20)	2437	Ant1	50.47	2.97	1.85
NVNT	n(HT20)	2462	Ant1	50.47	2.97	1.85
NVNT	n(HT40)	2422	Ant1	50.48	2.97	1.89
NVNT	n(HT40)	2437	Ant1	50.48	2.97	1.89
NVNT	n(HT40)	2452	Ant1	50.48	2.97	1.89

Test Graphs

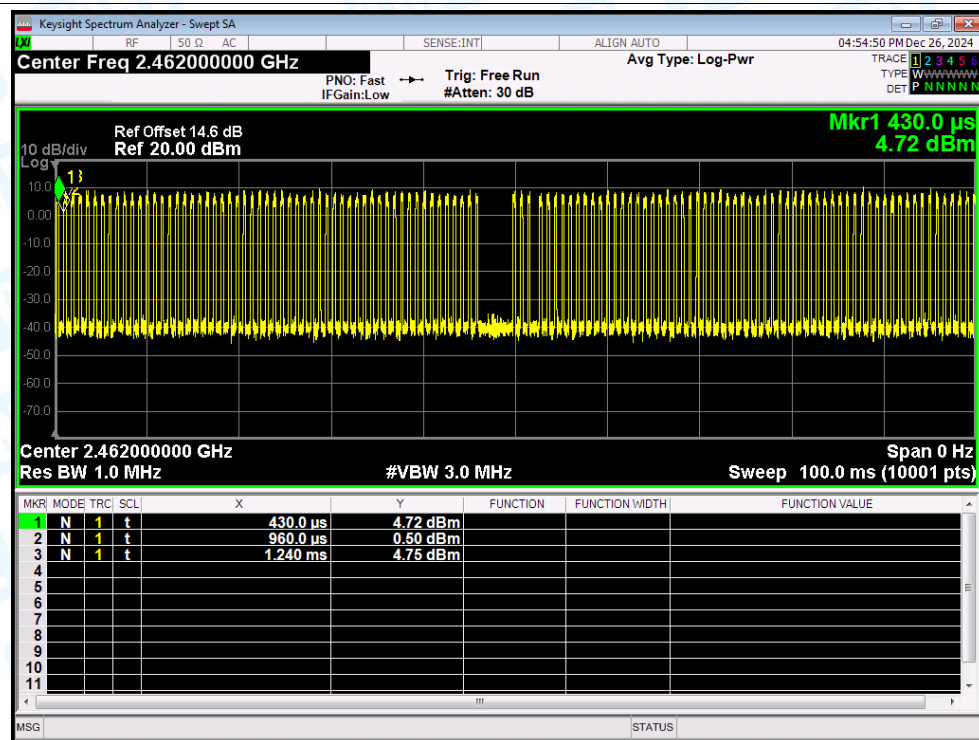
Duty Cycle NVNT ax(VHT20) 2412MHz Ant1



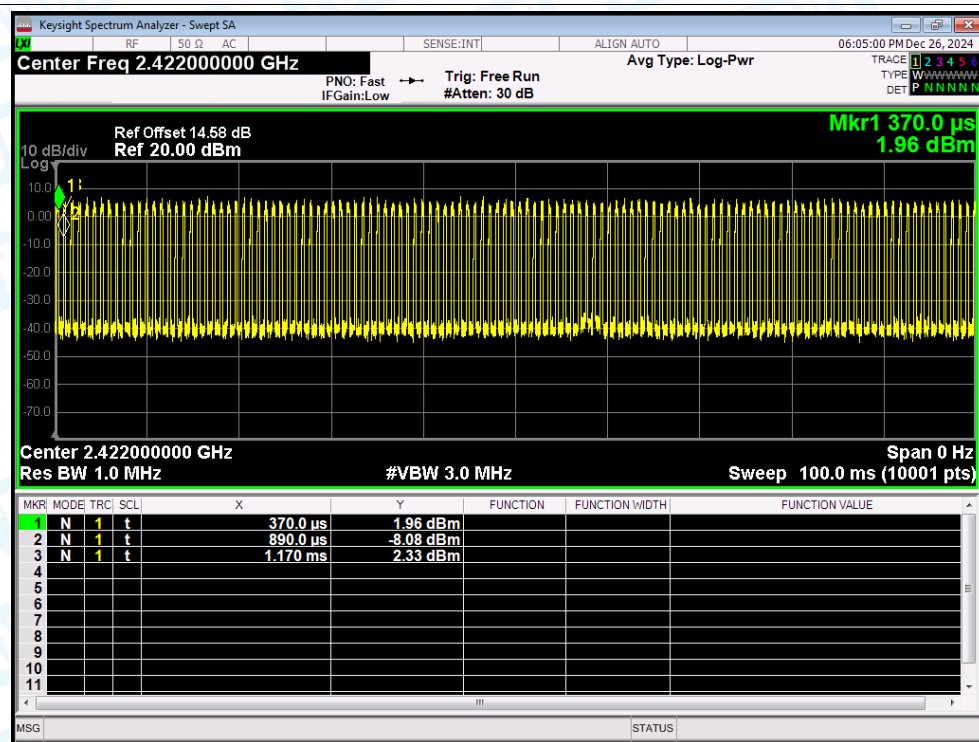
Duty Cycle NVNT ax(VHT20) 2437MHz Ant1



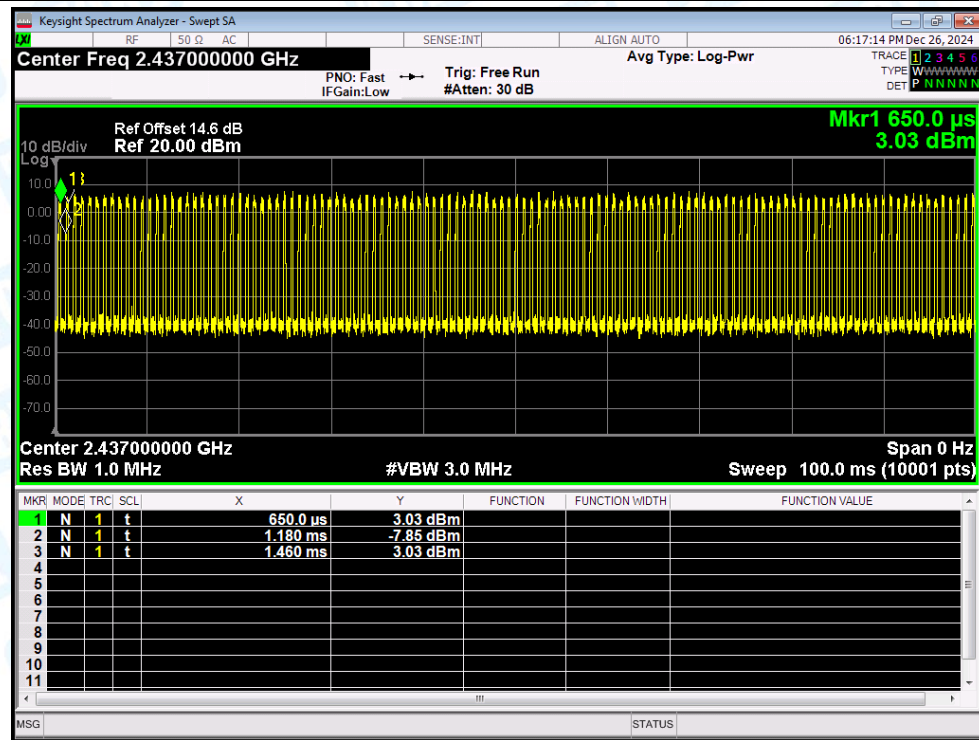
Duty Cycle NVNT ax(VHT20) 2462MHz Ant1



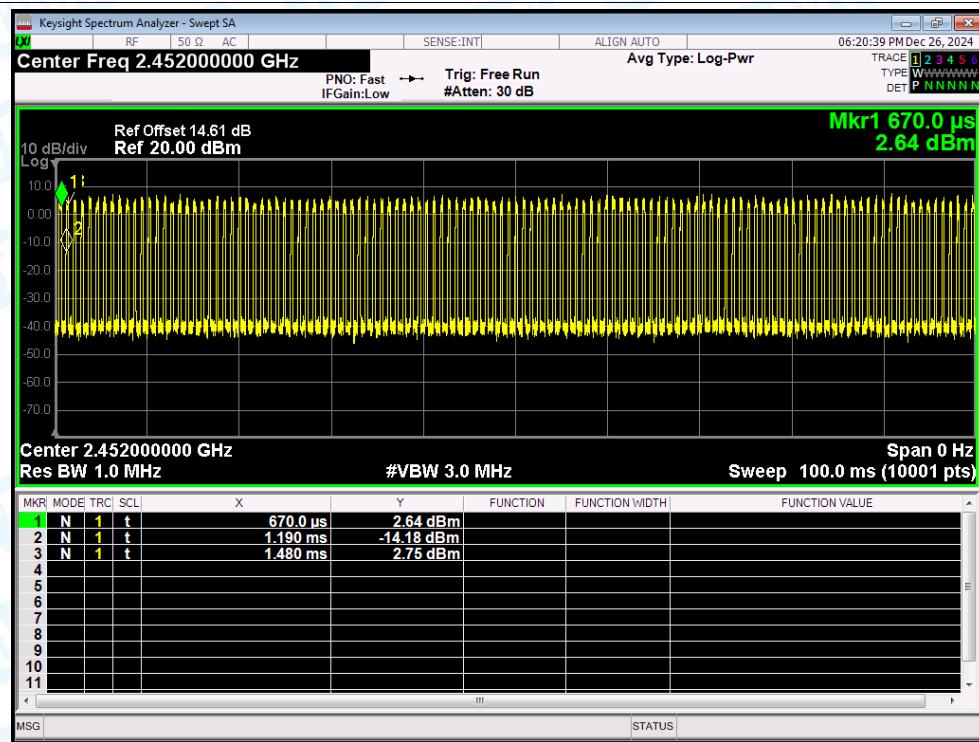
Duty Cycle NVNT ax(VHT40) 2422MHz Ant1



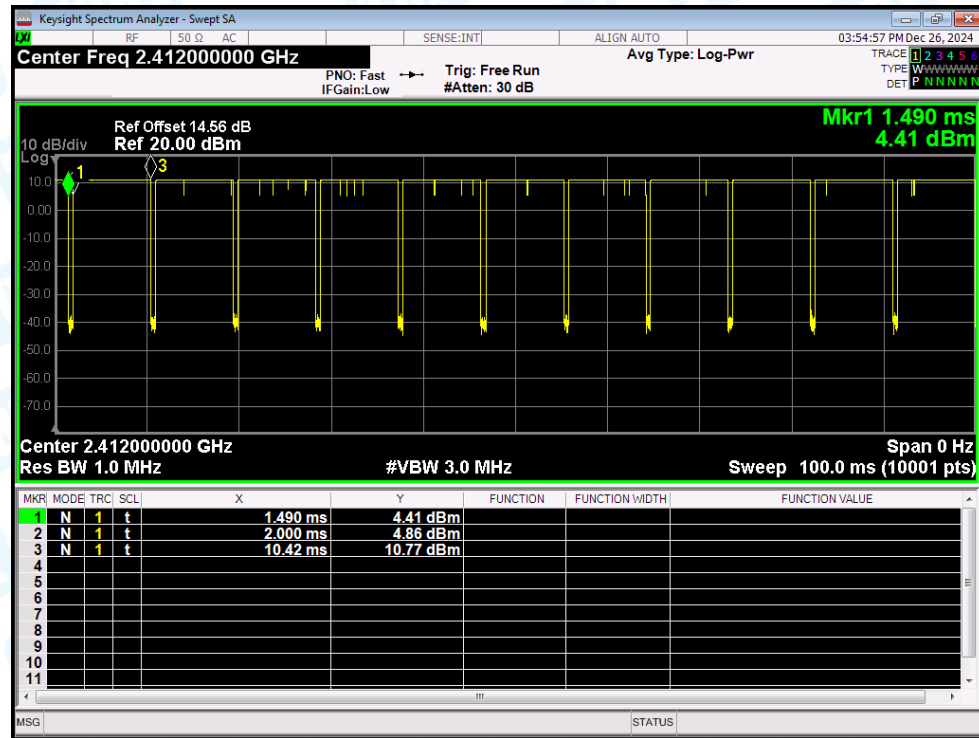
Duty Cycle NVNT ax(VHT40) 2437MHz Ant1



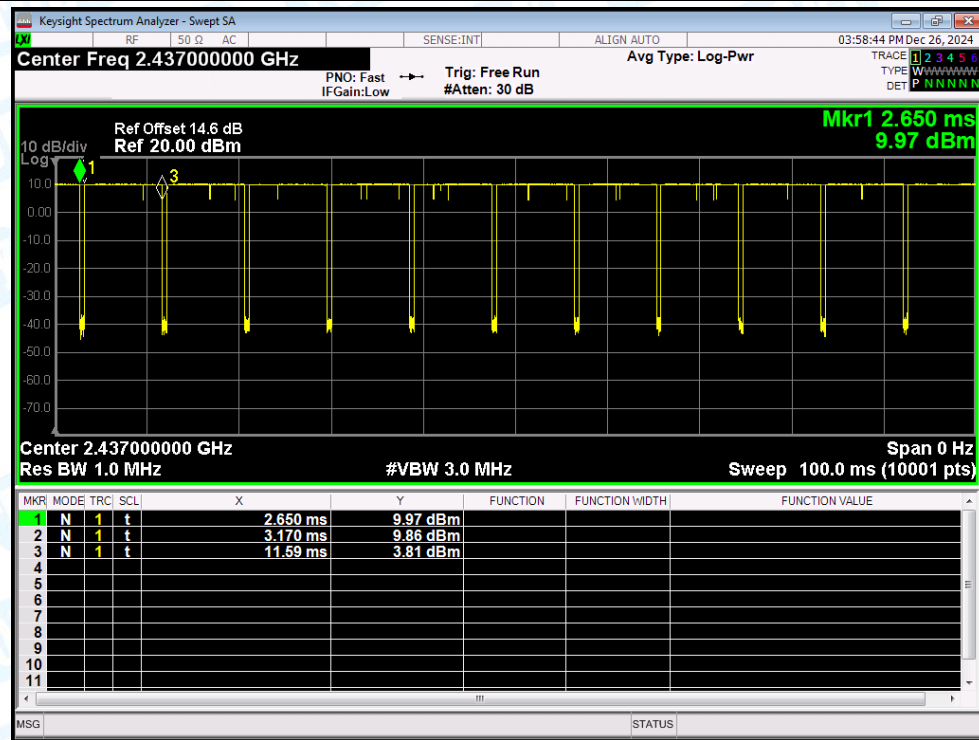
Duty Cycle NVNT ax(VHT40) 2452MHz Ant1



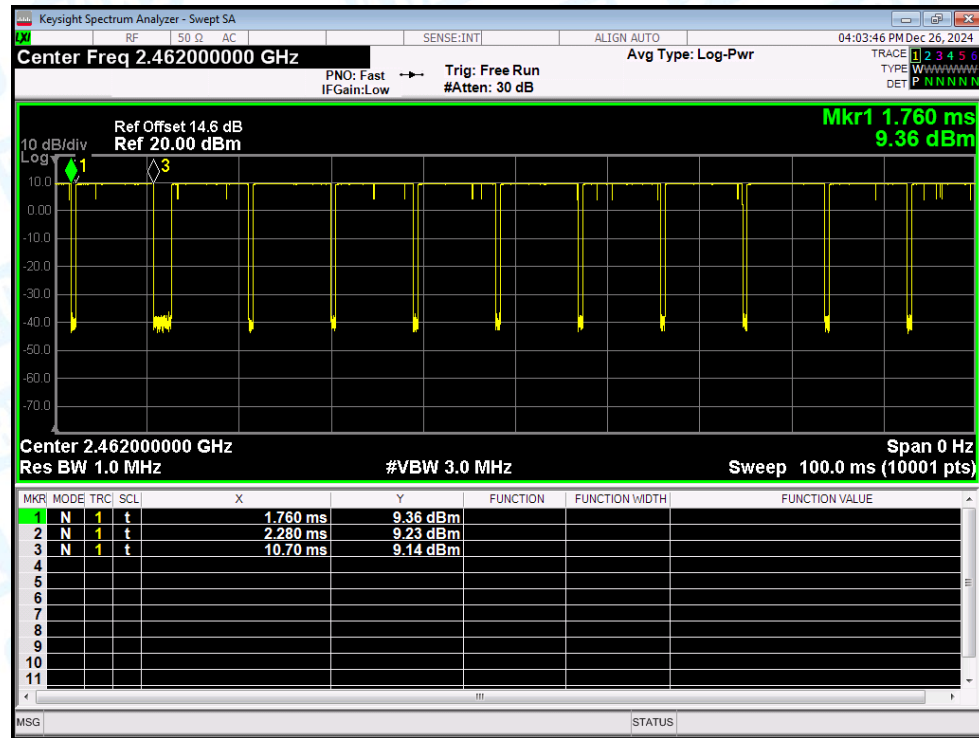
Duty Cycle NVNT b 2412MHz Ant1



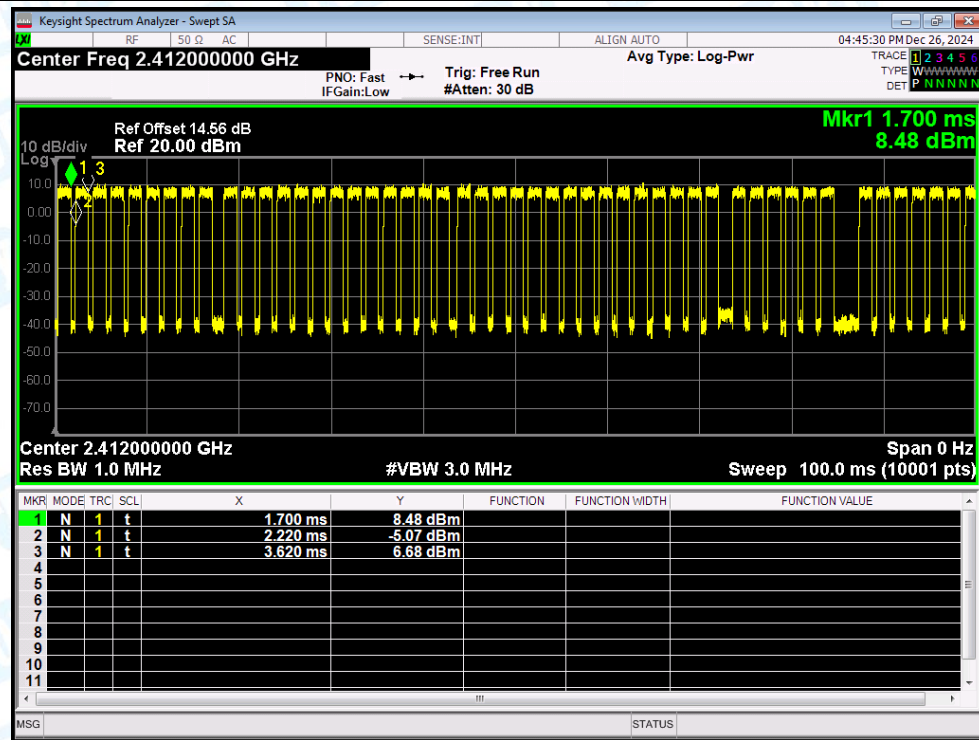
Duty Cycle NVNT b 2437MHz Ant1



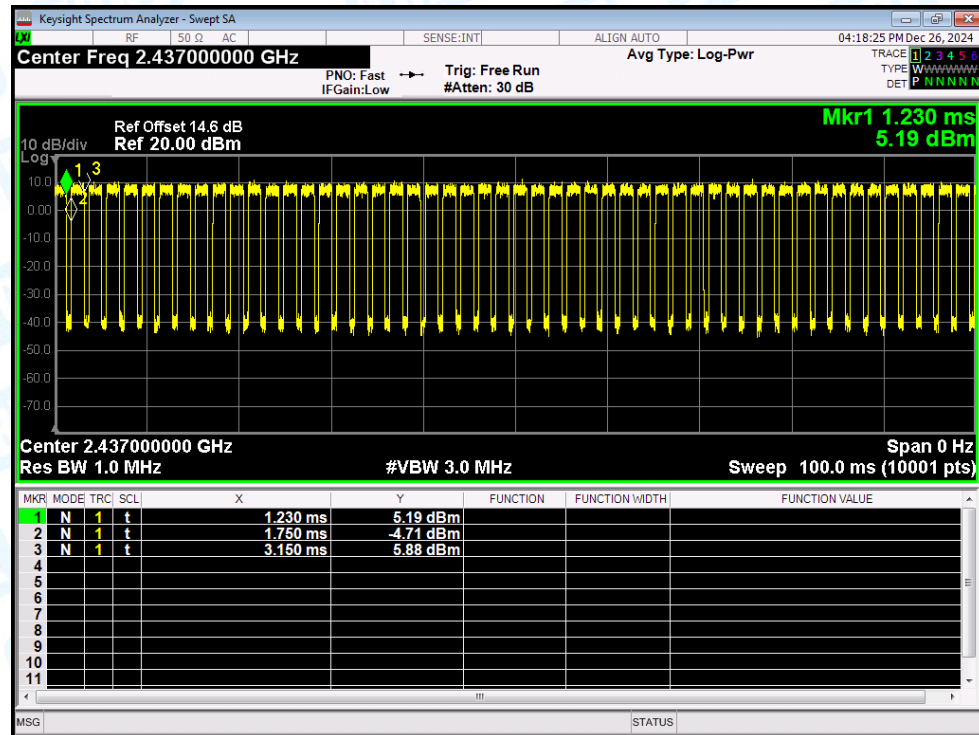
Duty Cycle NVNT b 2462MHz Ant1



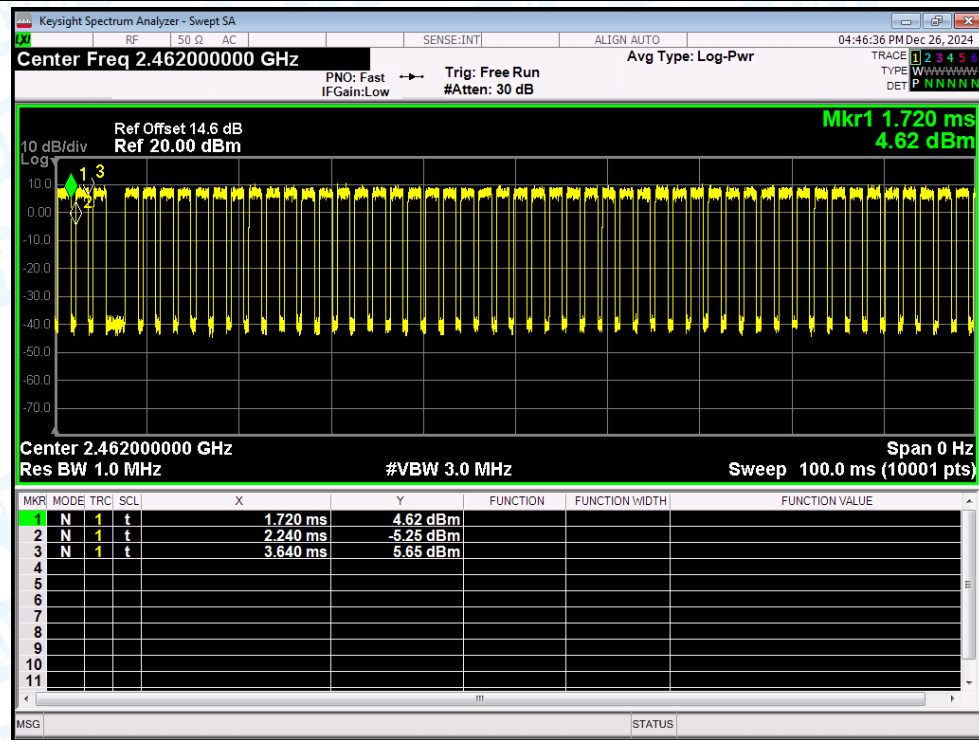
Duty Cycle NVNT g 2412MHz Ant1



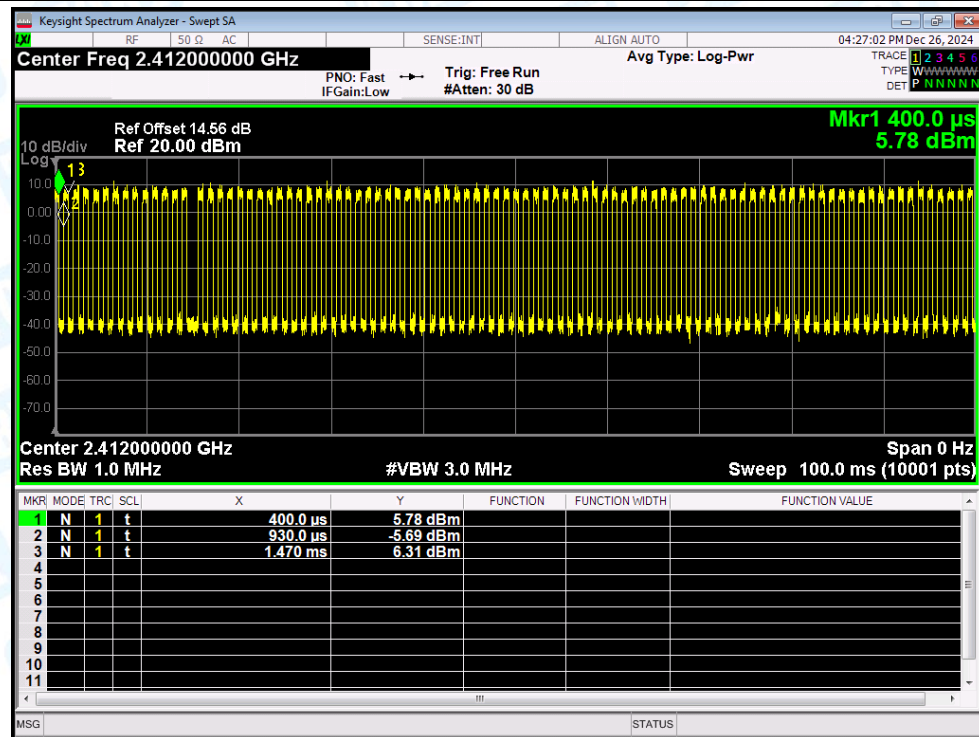
Duty Cycle NVNT g 2437MHz Ant1



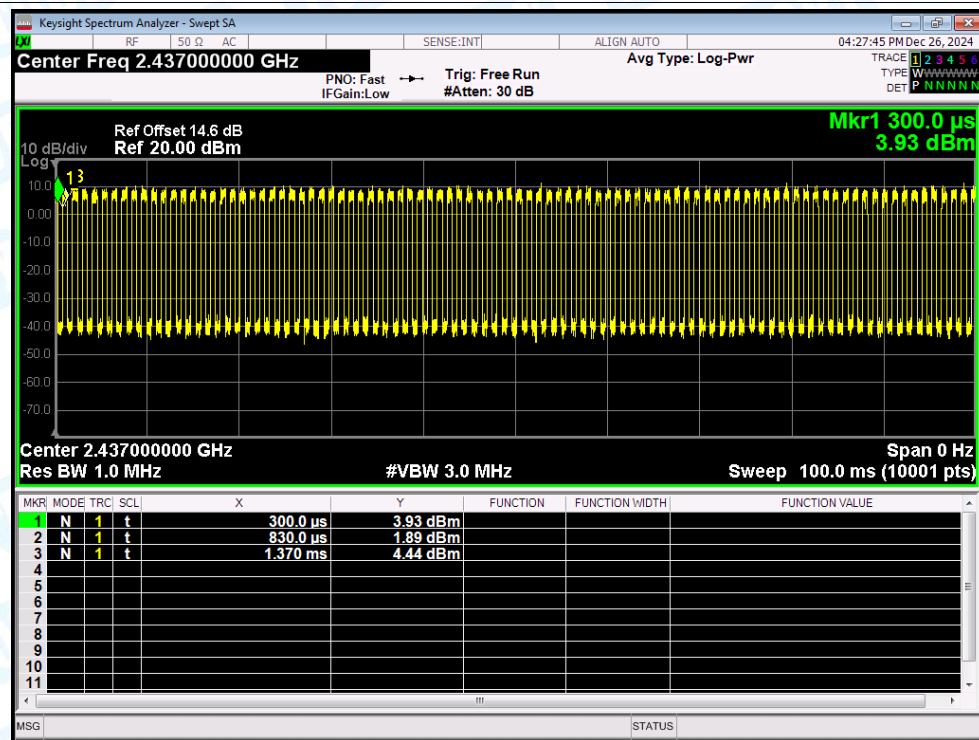
Duty Cycle NVNT g 2462MHz Ant1



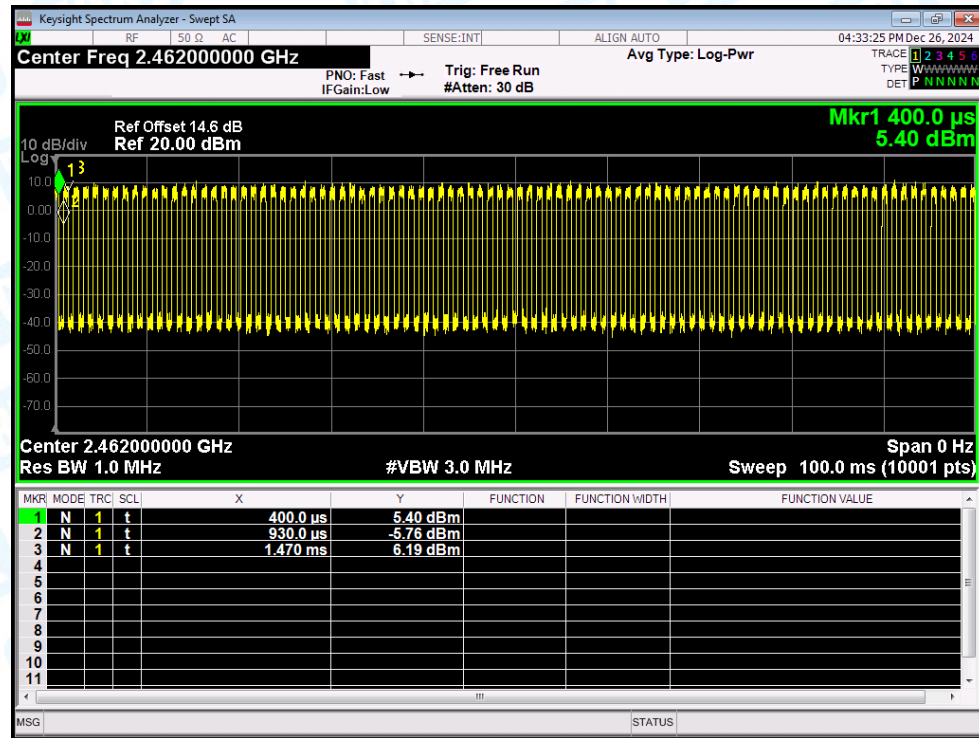
Duty Cycle NVNT n(HT20) 2412MHz Ant1



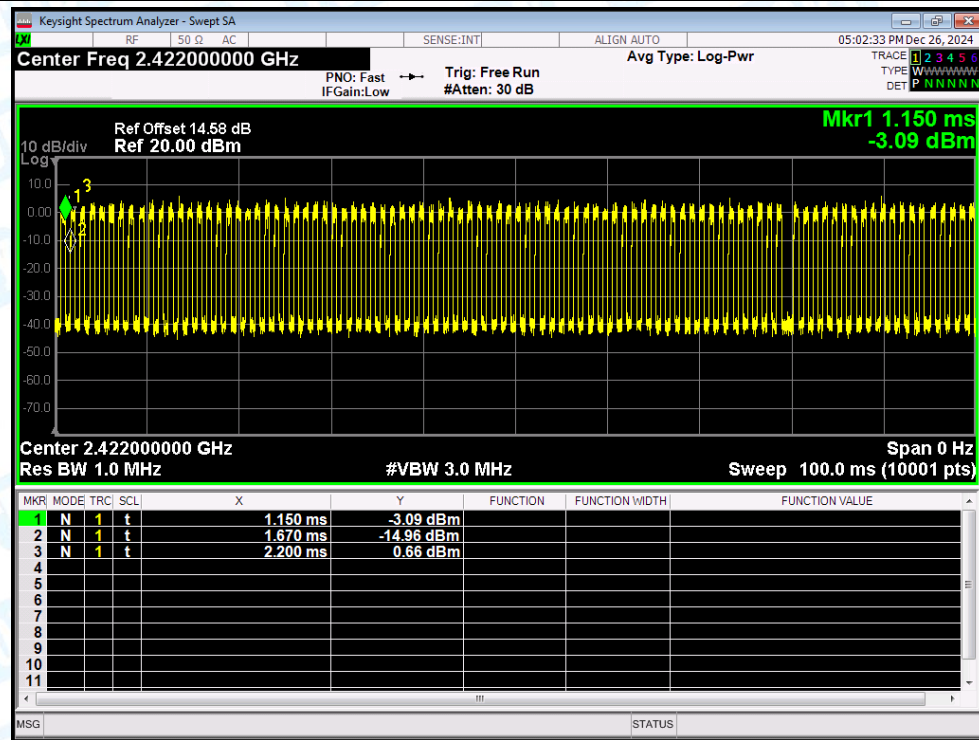
Duty Cycle NVNT n(HT20) 2437MHz Ant1



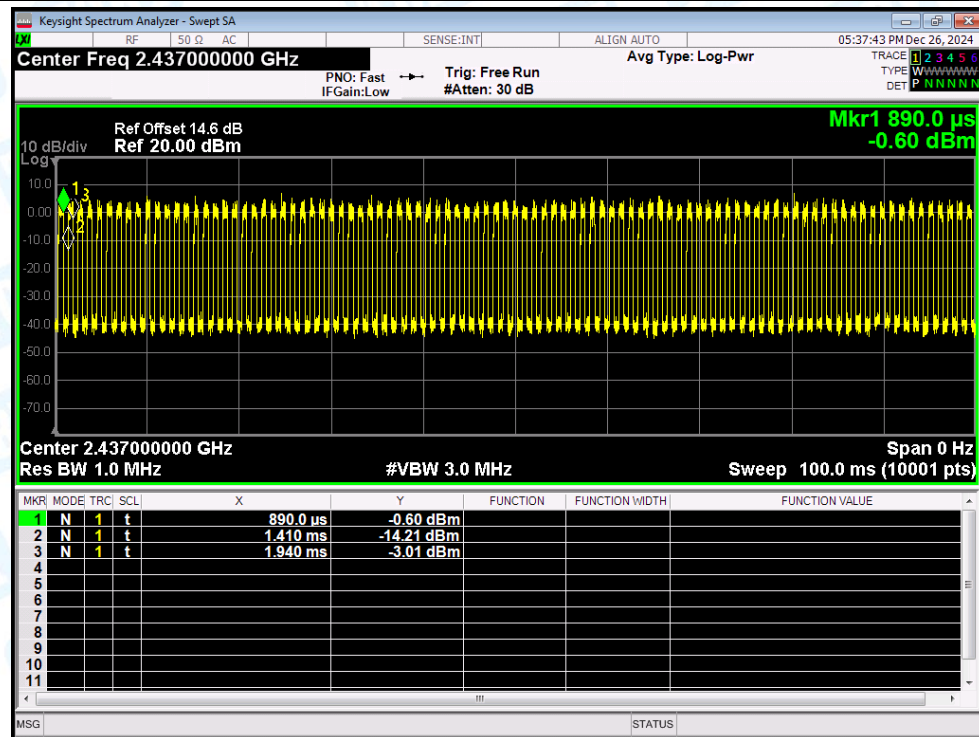
Duty Cycle NVNT n(HT20) 2462MHz Ant1



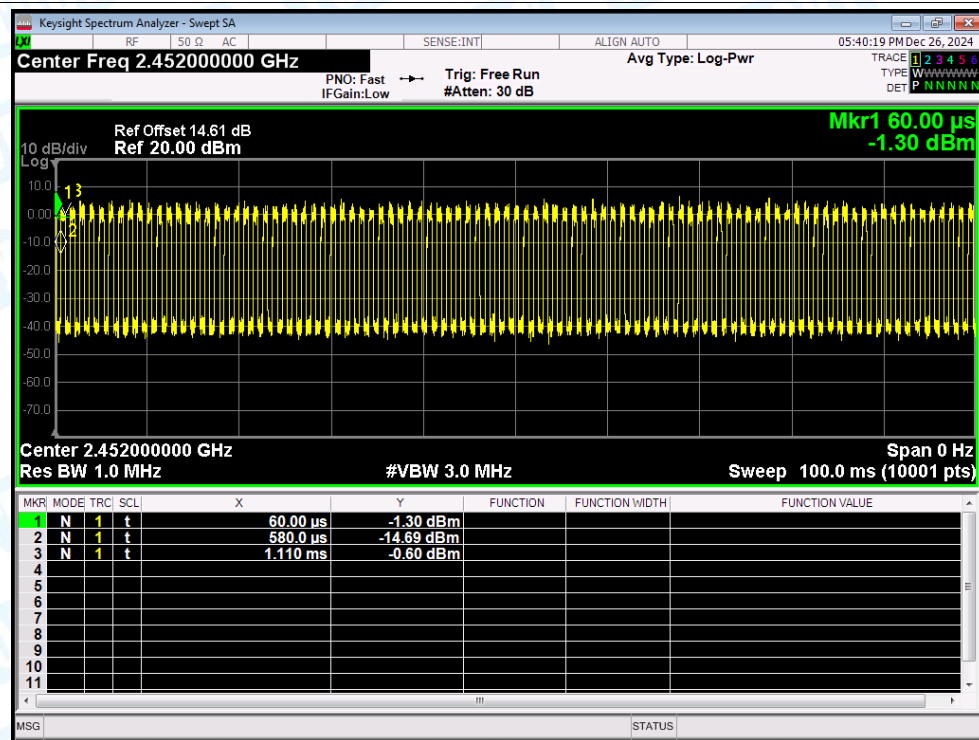
Duty Cycle NVNT n(HT40) 2422MHz Ant1



Duty Cycle NVNT n(HT40) 2437MHz Ant1



Duty Cycle NVNT n(HT40) 2452MHz Ant1



2. Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	ax(VHT20)	2412	Ant1	17.07	30	Pass
NVNT	ax(VHT20)	2437	Ant1	17.54	30	Pass
NVNT	ax(VHT20)	2462	Ant1	16.08	30	Pass
NVNT	ax(VHT40)	2422	Ant1	16.89	30	Pass
NVNT	ax(VHT40)	2437	Ant1	17.69	30	Pass
NVNT	ax(VHT40)	2452	Ant1	17.07	30	Pass
NVNT	b	2412	Ant1	16.23	30	Pass
NVNT	b	2437	Ant1	15.45	30	Pass
NVNT	b	2462	Ant1	14.67	30	Pass
NVNT	g	2412	Ant1	14.59	30	Pass
NVNT	g	2437	Ant1	15.05	30	Pass
NVNT	g	2462	Ant1	14.3	30	Pass
NVNT	n(HT20)	2412	Ant1	15.53	30	Pass
NVNT	n(HT20)	2437	Ant1	16.17	30	Pass
NVNT	n(HT20)	2462	Ant1	15.46	30	Pass
NVNT	n(HT40)	2422	Ant1	15.39	30	Pass
NVNT	n(HT40)	2437	Ant1	16.06	30	Pass
NVNT	n(HT40)	2452	Ant1	15.64	30	Pass

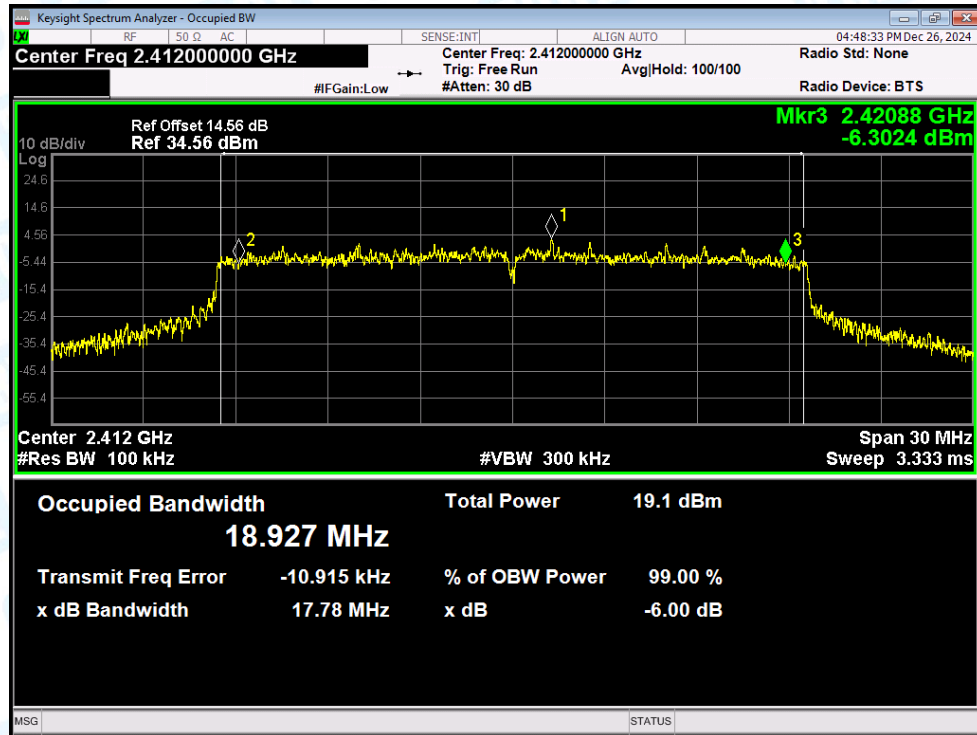
Note: The Duty Cycle Factor is compensated in the graph.

3. -6dB Bandwidth

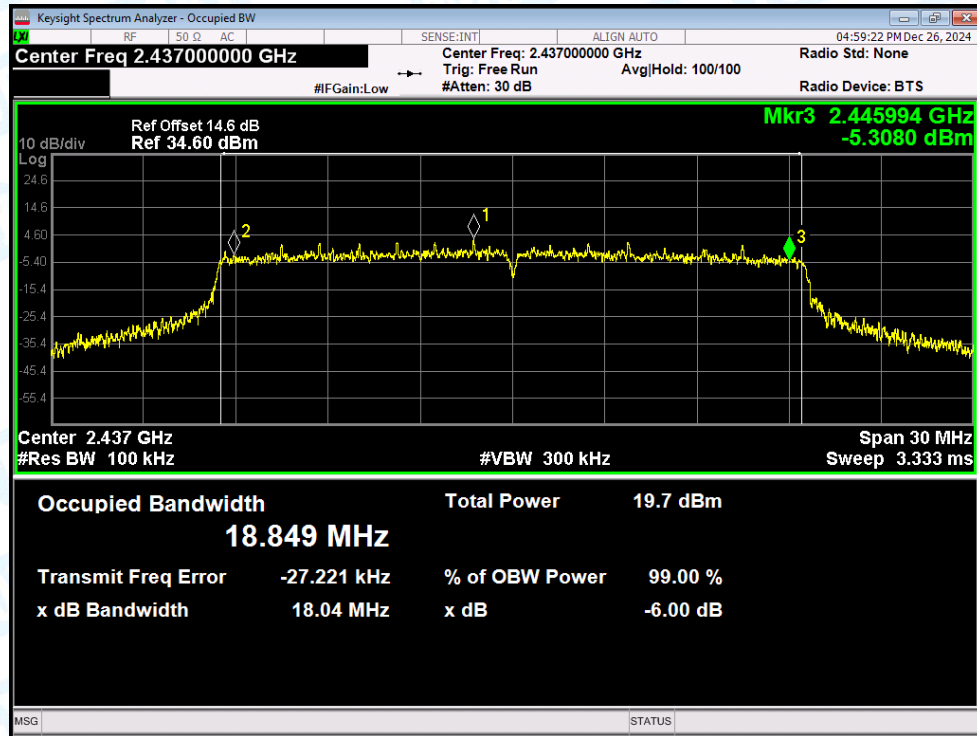
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	ax(VHT20)	2412	Ant1	17.78	0.5	Pass
NVNT	ax(VHT20)	2437	Ant1	18.04	0.5	Pass
NVNT	ax(VHT20)	2462	Ant1	18.09	0.5	Pass
NVNT	ax(VHT40)	2422	Ant1	36.53	0.5	Pass
NVNT	ax(VHT40)	2437	Ant1	37.39	0.5	Pass
NVNT	ax(VHT40)	2452	Ant1	35.83	0.5	Pass
NVNT	b	2412	Ant1	8.1	0.5	Pass
NVNT	b	2437	Ant1	9.06	0.5	Pass
NVNT	b	2462	Ant1	9.54	0.5	Pass
NVNT	g	2412	Ant1	16.33	0.5	Pass
NVNT	g	2437	Ant1	16.32	0.5	Pass
NVNT	g	2462	Ant1	15.26	0.5	Pass
NVNT	n(HT20)	2412	Ant1	17.59	0.5	Pass
NVNT	n(HT20)	2437	Ant1	17.67	0.5	Pass
NVNT	n(HT20)	2462	Ant1	17.24	0.5	Pass
NVNT	n(HT40)	2422	Ant1	36.29	0.5	Pass
NVNT	n(HT40)	2437	Ant1	36.35	0.5	Pass
NVNT	n(HT40)	2452	Ant1	35.75	0.5	Pass

Test Graphs

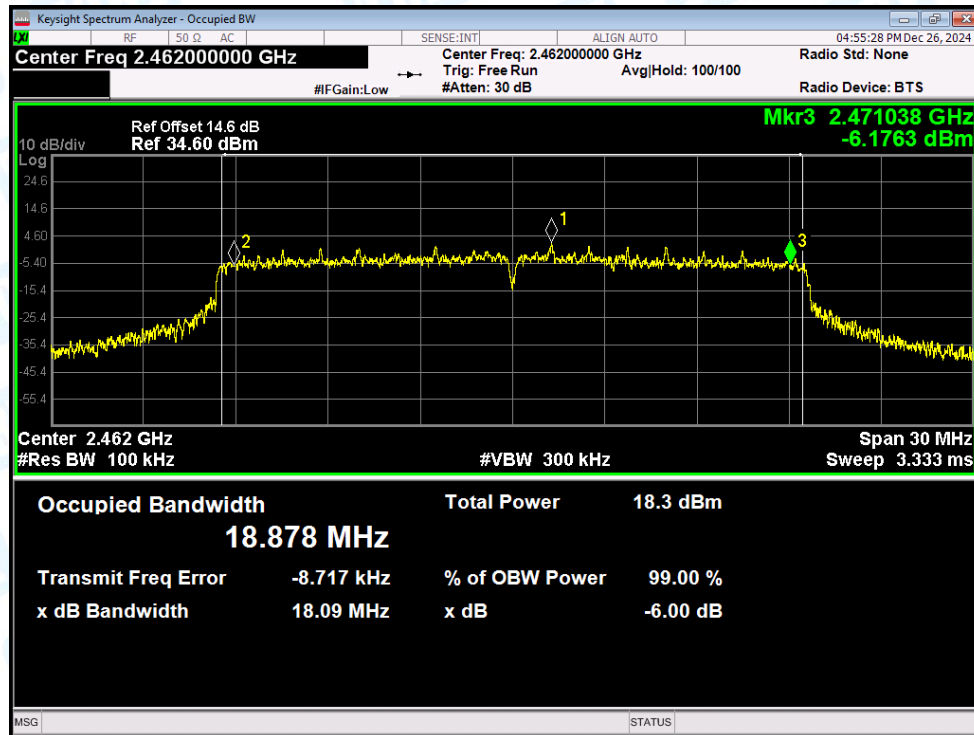
-6dB Bandwidth NVNT ax(VHT20) 2412MHz Ant1



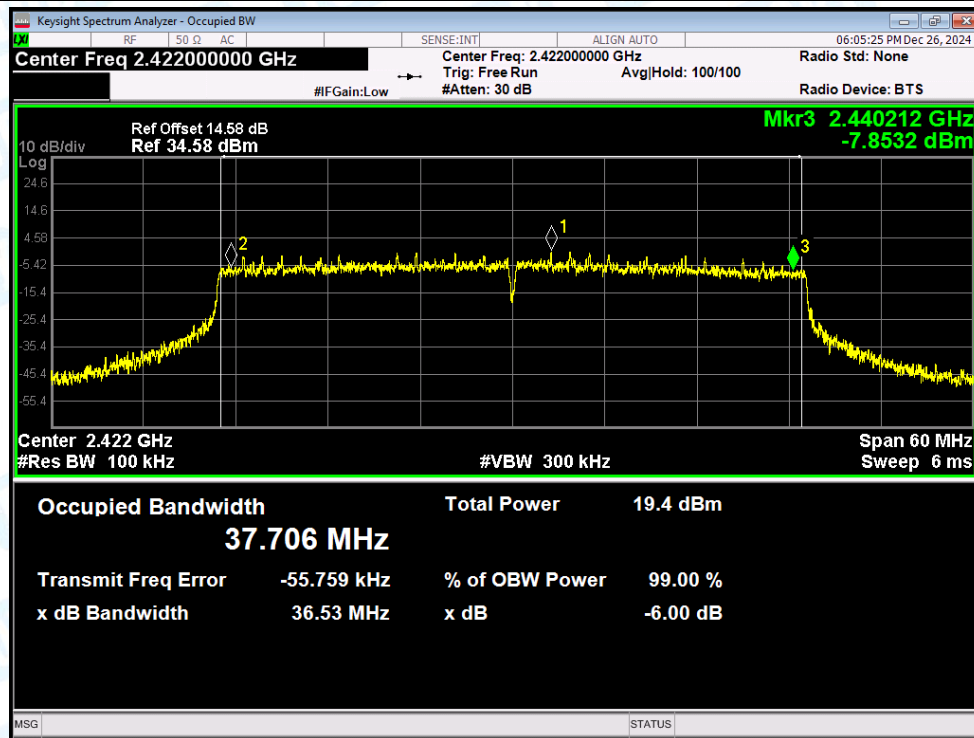
-6dB Bandwidth NVNT ax(VHT20) 2437MHz Ant1



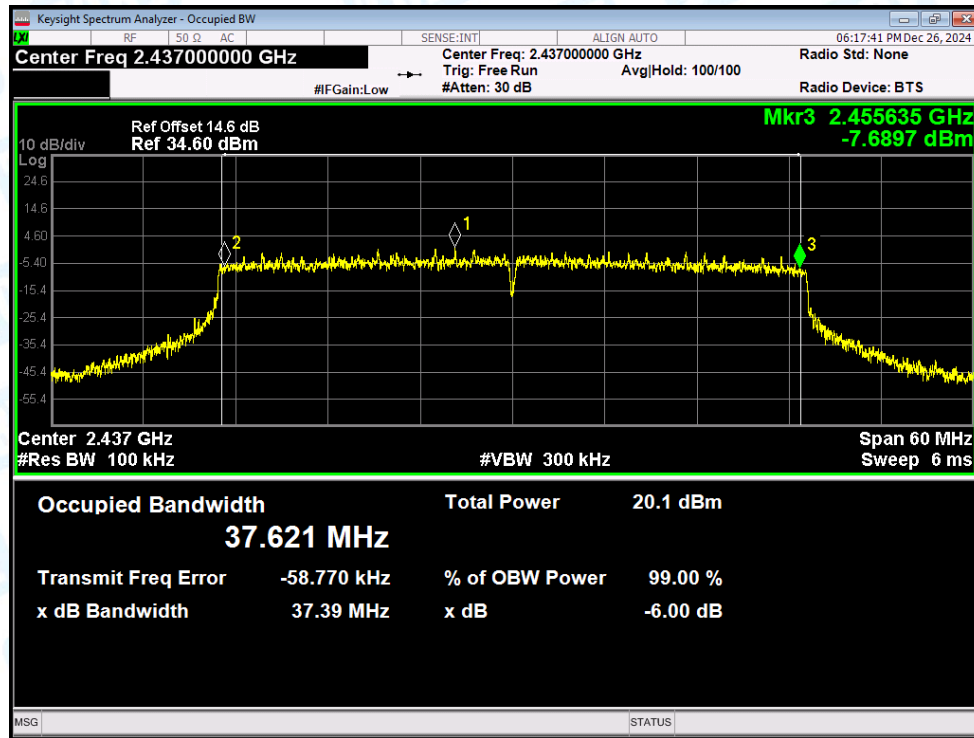
-6dB Bandwidth NVNT ax(VHT20) 2462MHz Ant1



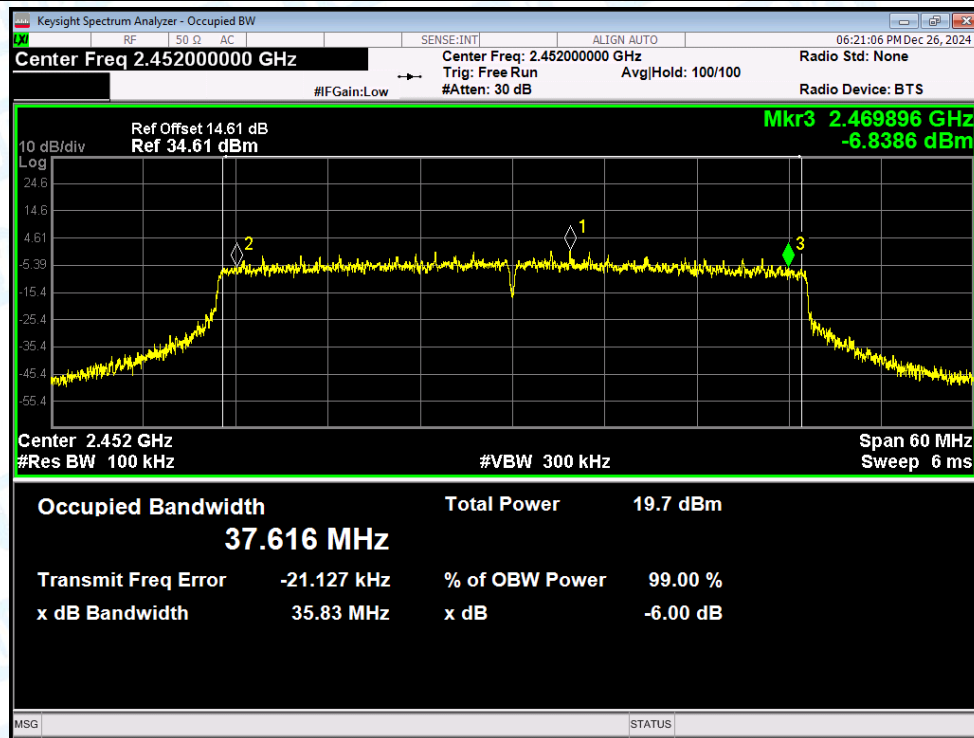
-6dB Bandwidth NVNT ax(VHT40) 2422MHz Ant1



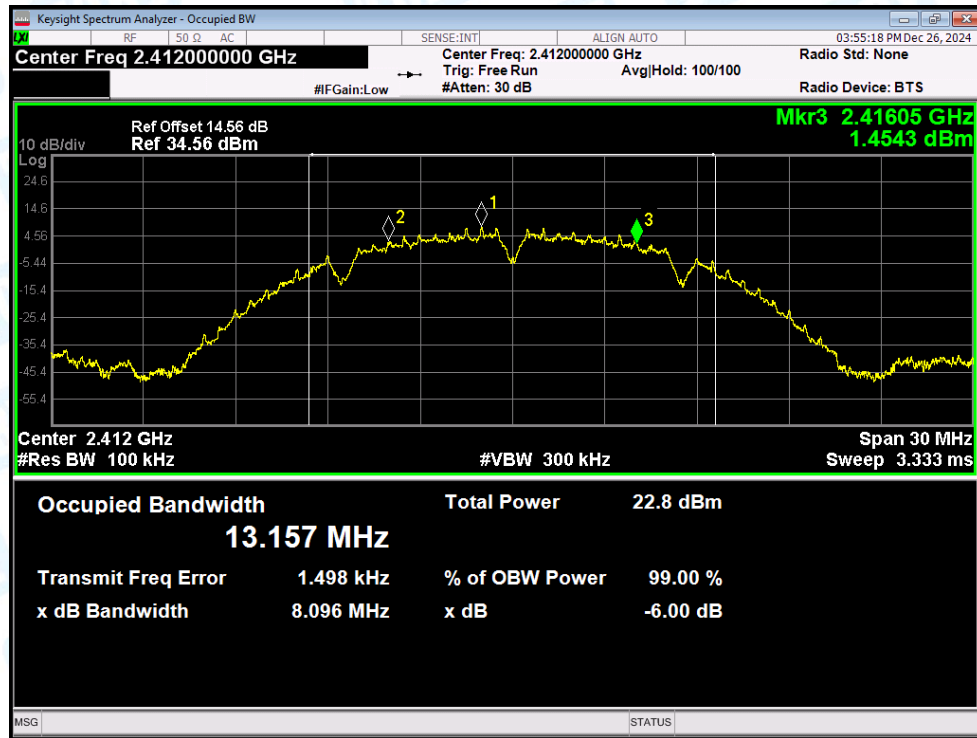
-6dB Bandwidth NVNT ax(VHT40) 2437MHz Ant1



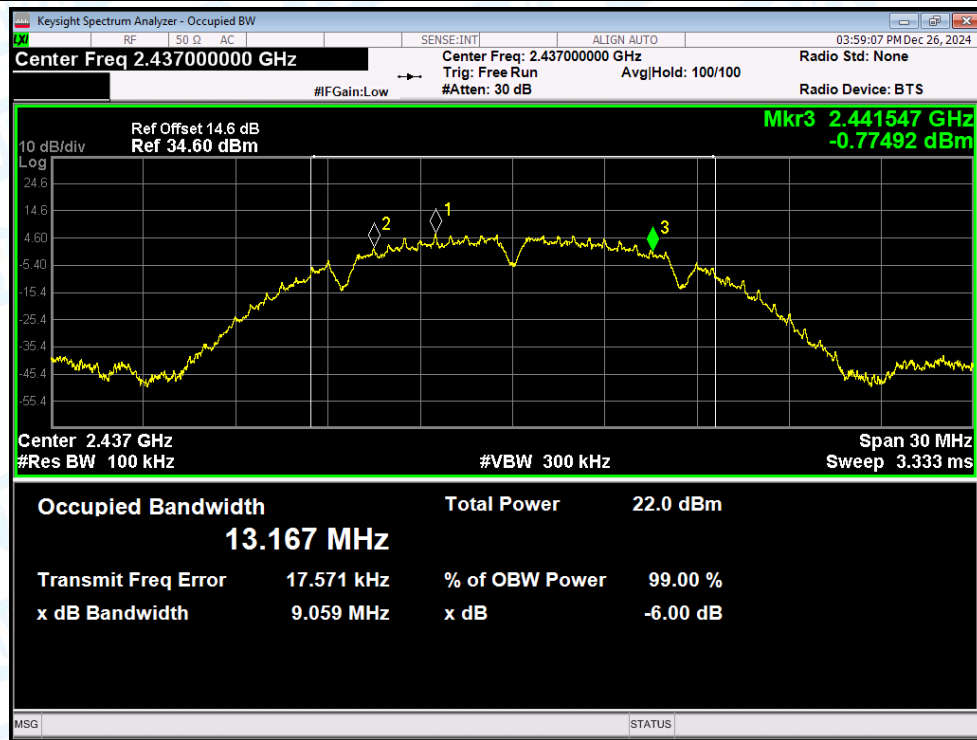
-6dB Bandwidth NVNT ax(VHT40) 2452MHz Ant1



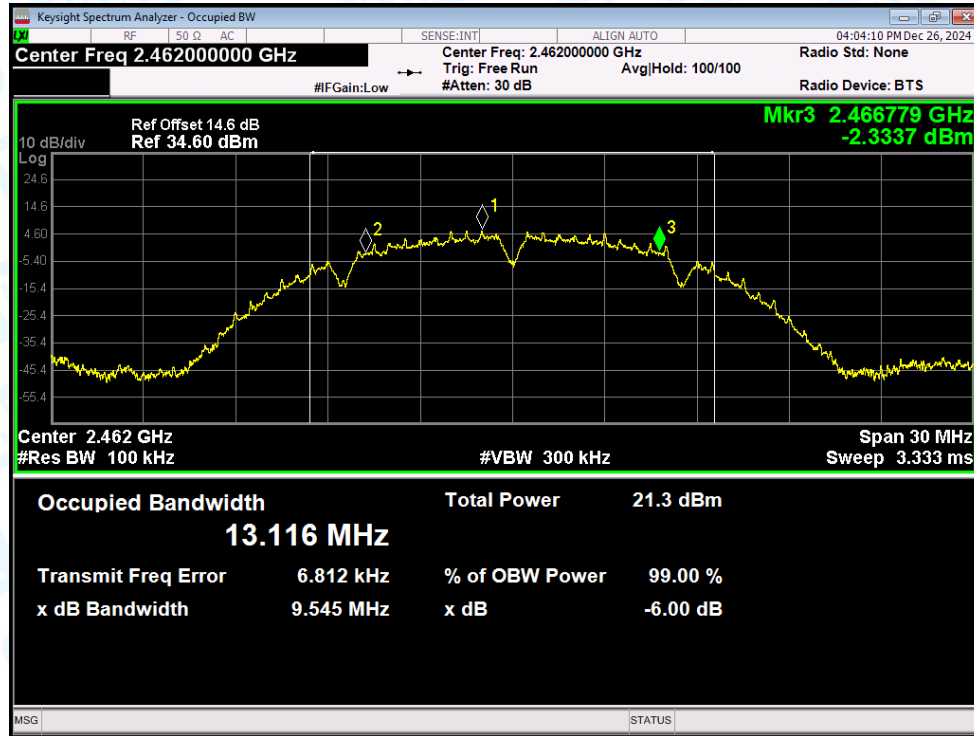
-6dB Bandwidth NVNT b 2412MHz Ant1



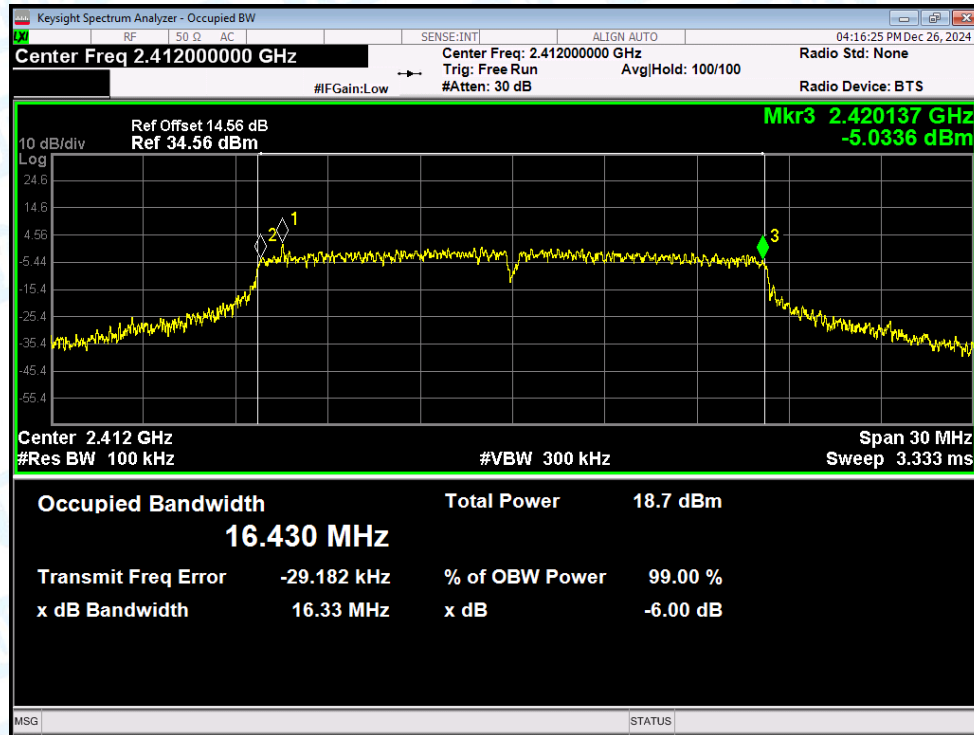
-6dB Bandwidth NVNT b 2437MHz Ant1



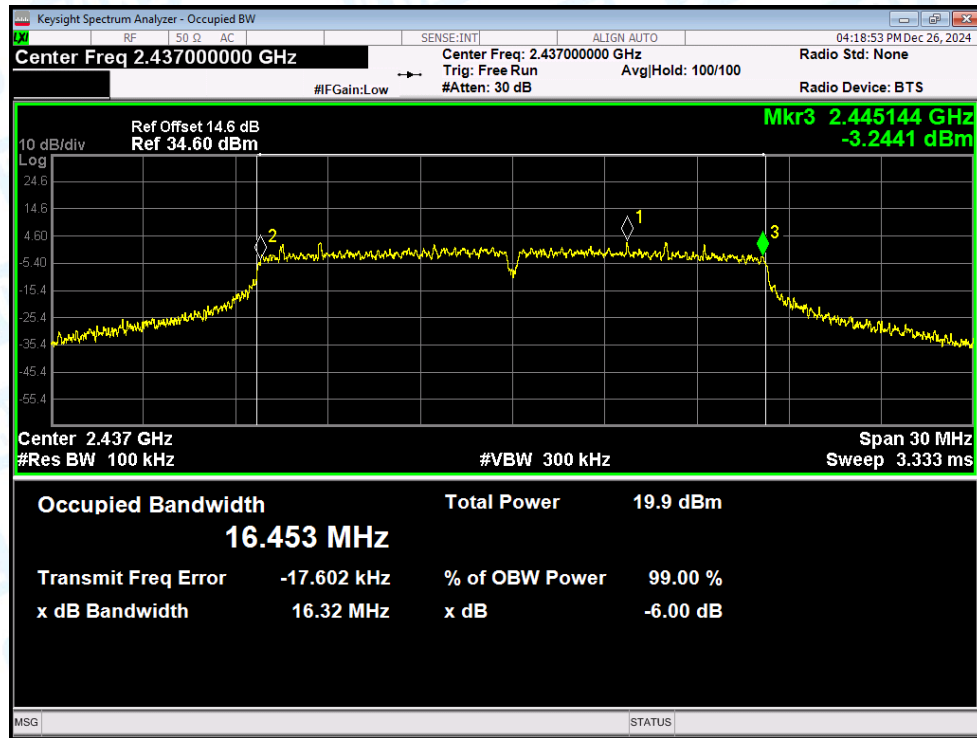
-6dB Bandwidth NVNT b 2462MHz Ant1



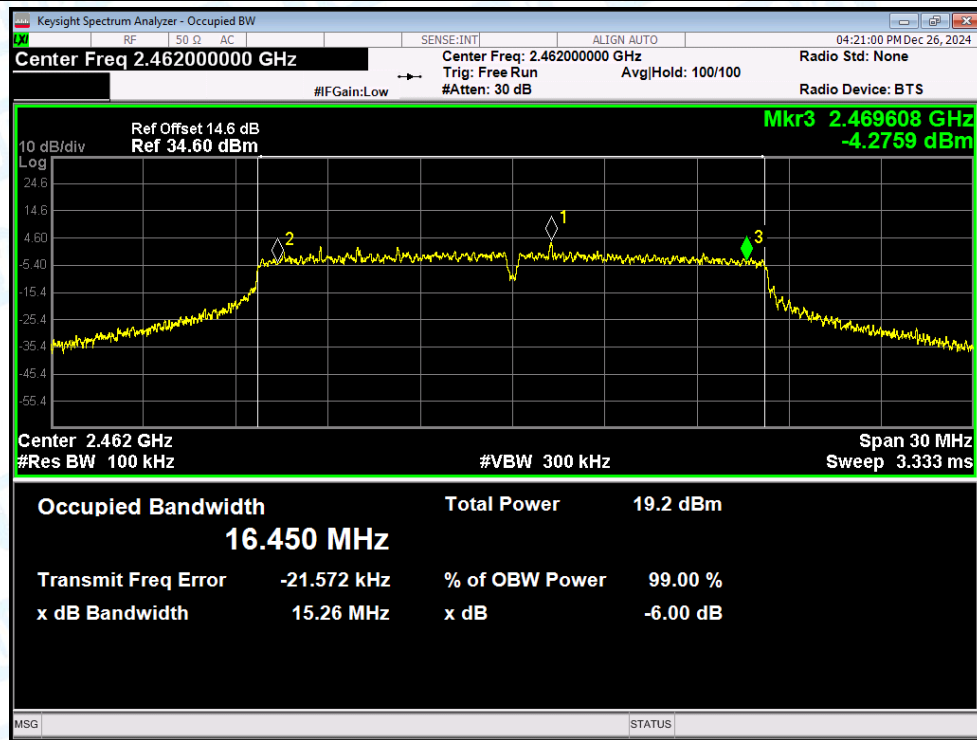
-6dB Bandwidth NVNT g 2412MHz Ant1



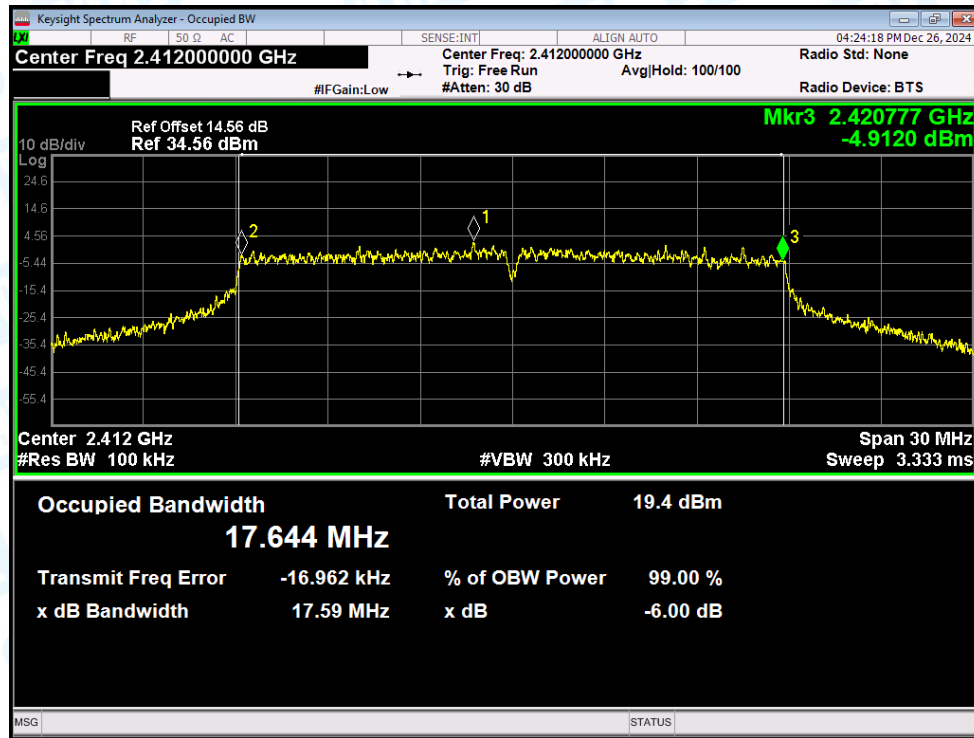
-6dB Bandwidth NVNT g 2437MHz Ant1



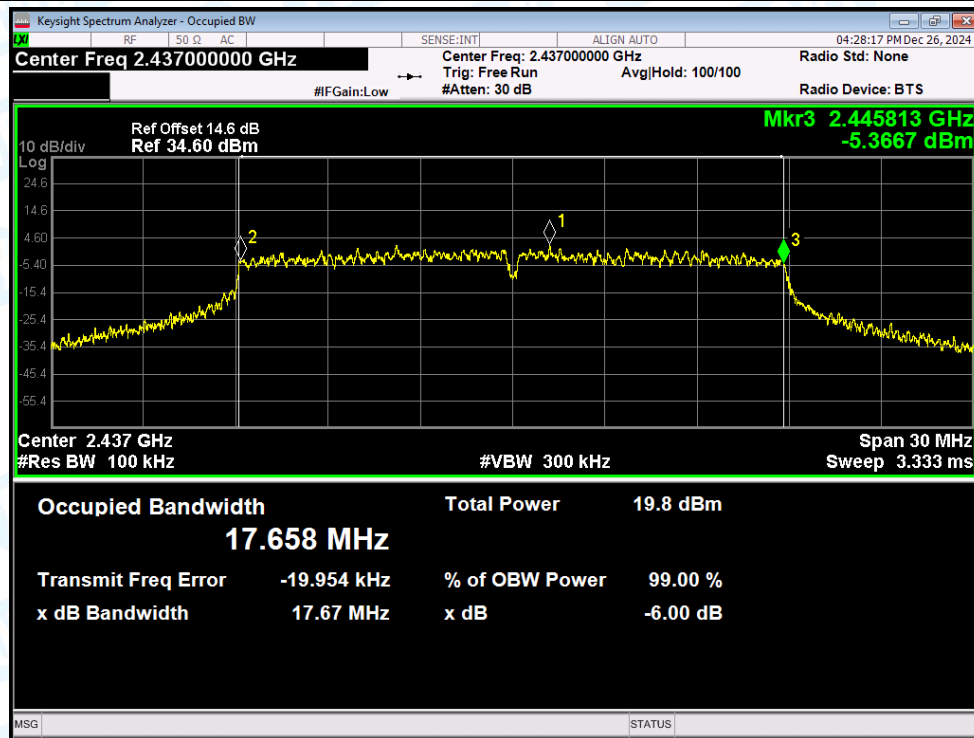
-6dB Bandwidth NVNT g 2462MHz Ant1



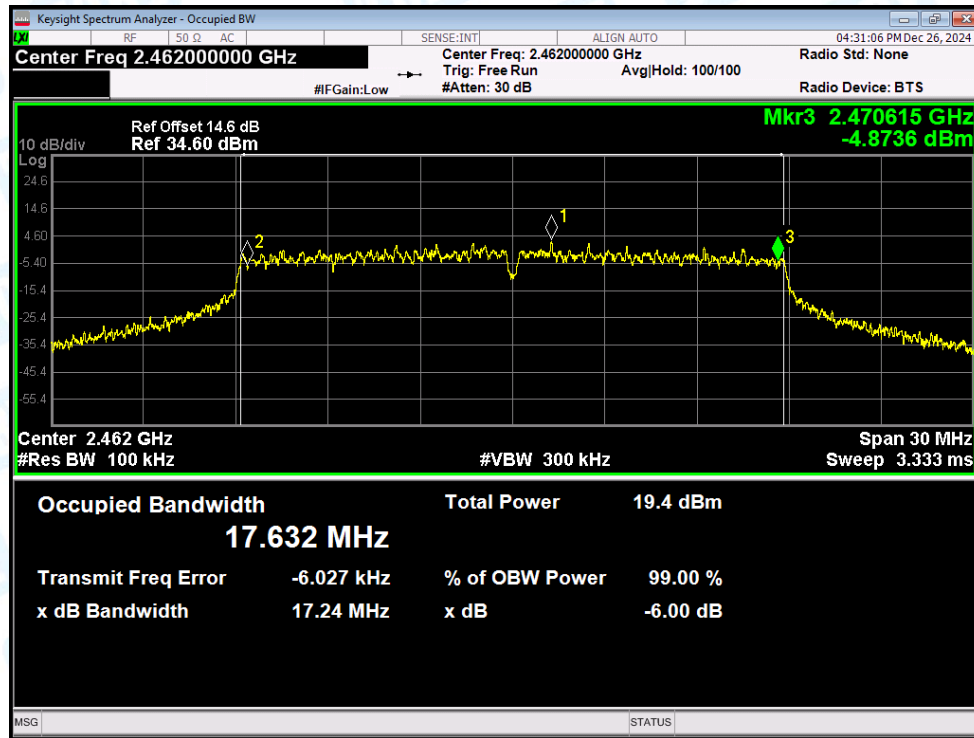
-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



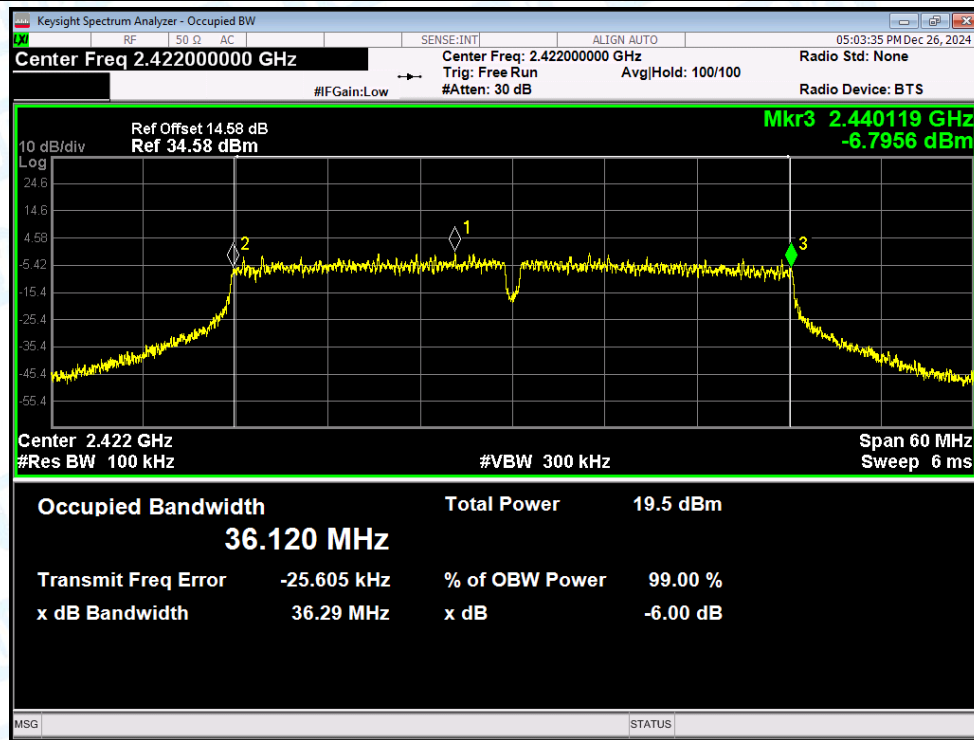
-6dB Bandwidth NVNT n(HT20) 2437MHz Ant1



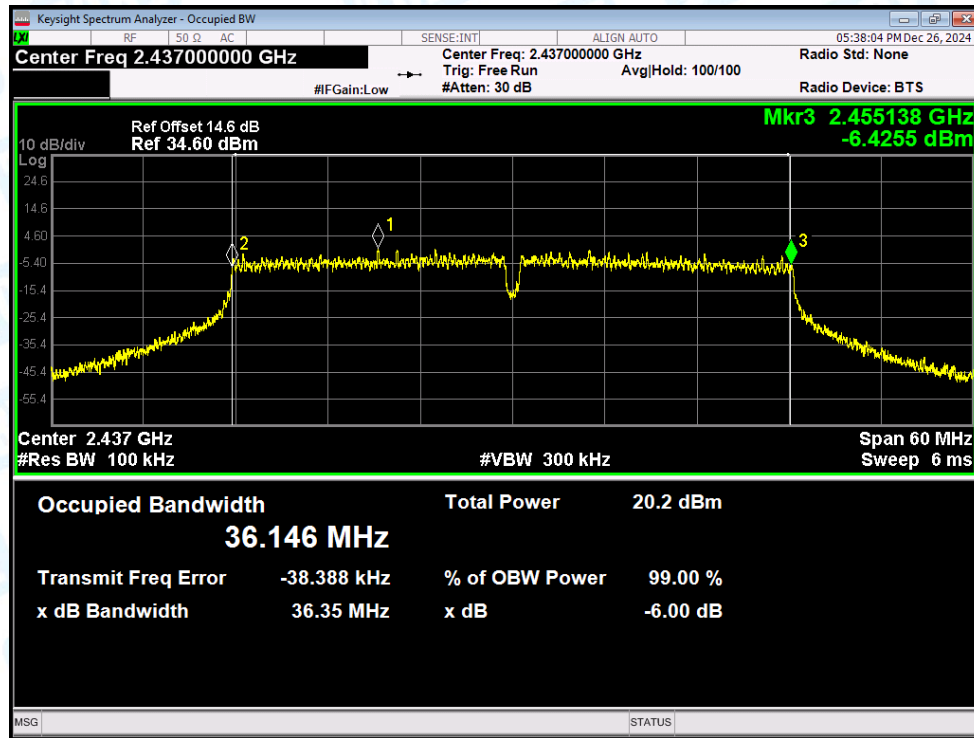
-6dB Bandwidth NVNT n(HT20) 2462MHz Ant1



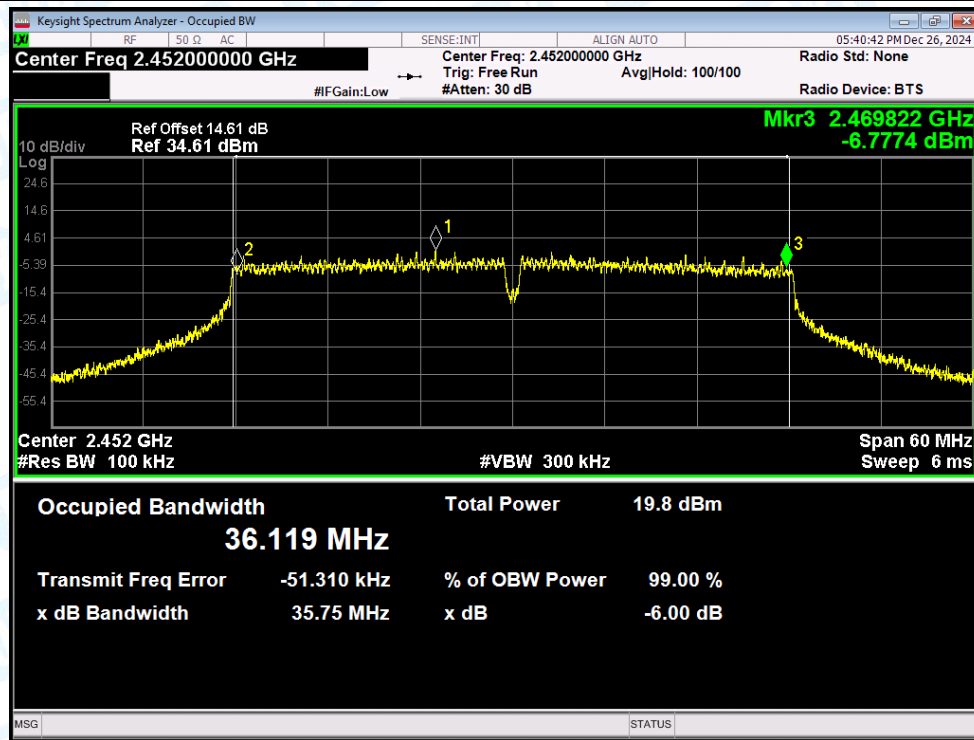
-6dB Bandwidth NVNT n(HT40) 2422MHz Ant1



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



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

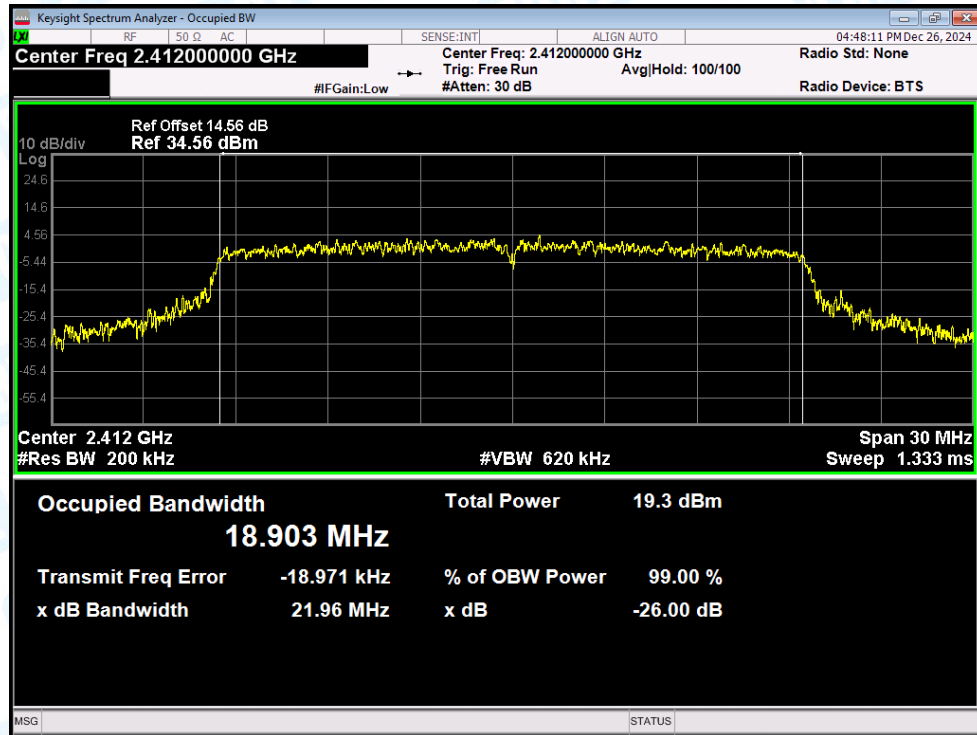


4. Occupied Channel Bandwidth

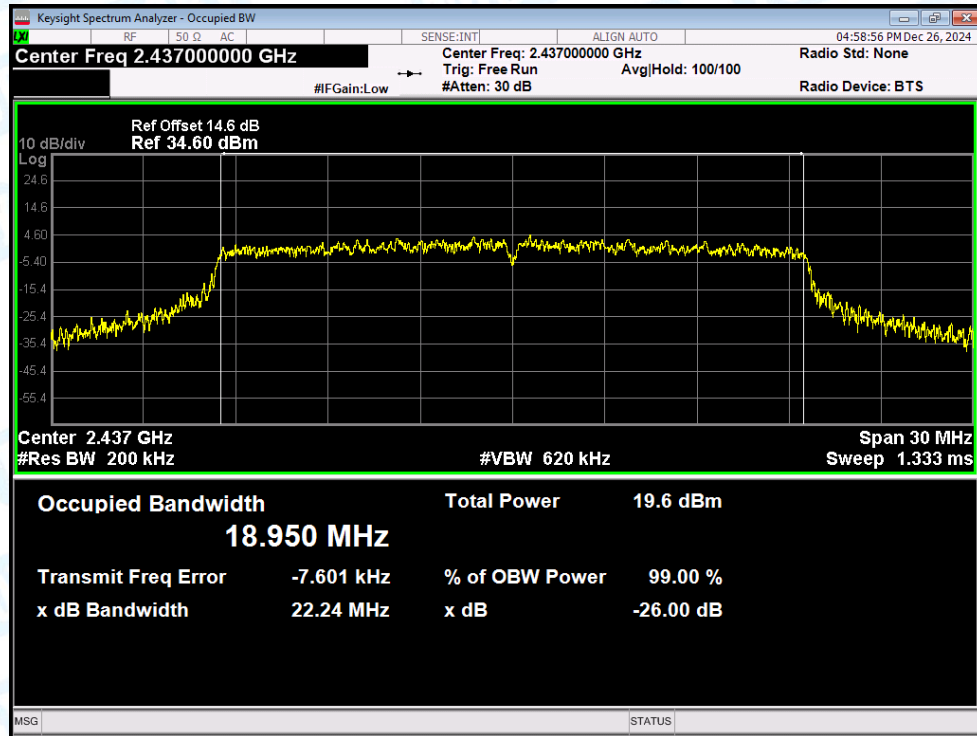
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	ax(VHT20)	2412	Ant1	18.903
NVNT	ax(VHT20)	2437	Ant1	18.95
NVNT	ax(VHT20)	2462	Ant1	18.938
NVNT	ax(VHT40)	2422	Ant1	37.75
NVNT	ax(VHT40)	2437	Ant1	37.834
NVNT	ax(VHT40)	2452	Ant1	37.756
NVNT	b	2412	Ant1	13.157
NVNT	b	2437	Ant1	13.148
NVNT	b	2462	Ant1	13.108
NVNT	g	2412	Ant1	16.547
NVNT	g	2437	Ant1	16.632
NVNT	g	2462	Ant1	16.557
NVNT	n(HT20)	2412	Ant1	17.682
NVNT	n(HT20)	2437	Ant1	17.723
NVNT	n(HT20)	2462	Ant1	17.699
NVNT	n(HT40)	2422	Ant1	36.257
NVNT	n(HT40)	2437	Ant1	36.211
NVNT	n(HT40)	2452	Ant1	36.204

Test Graphs

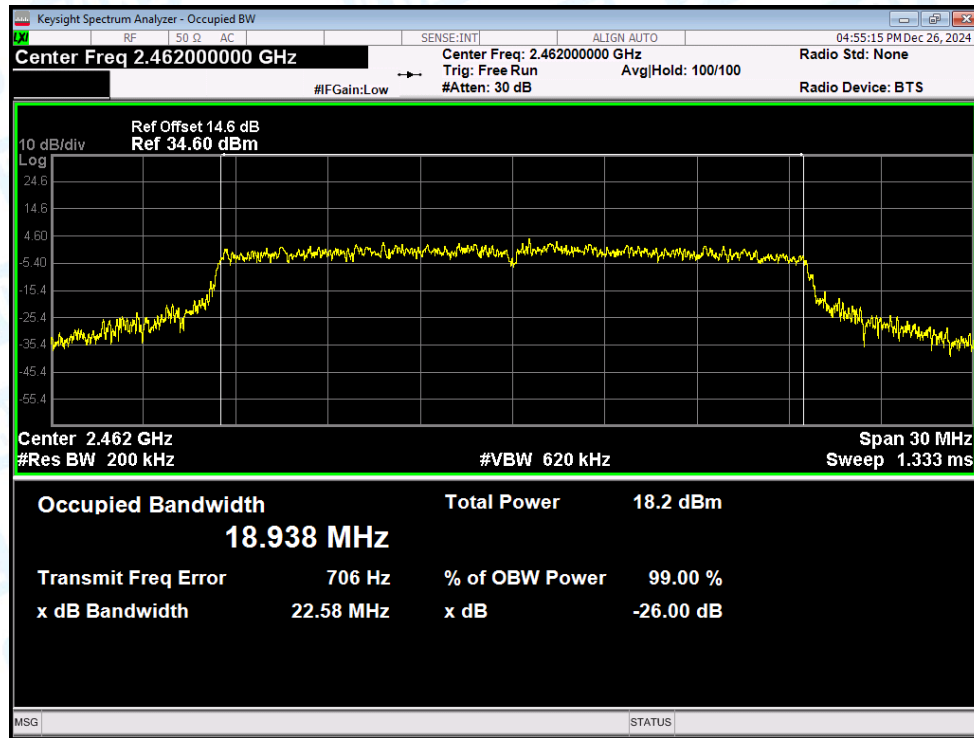
OBW NVNT ax(VHT20) 2412MHz Ant1



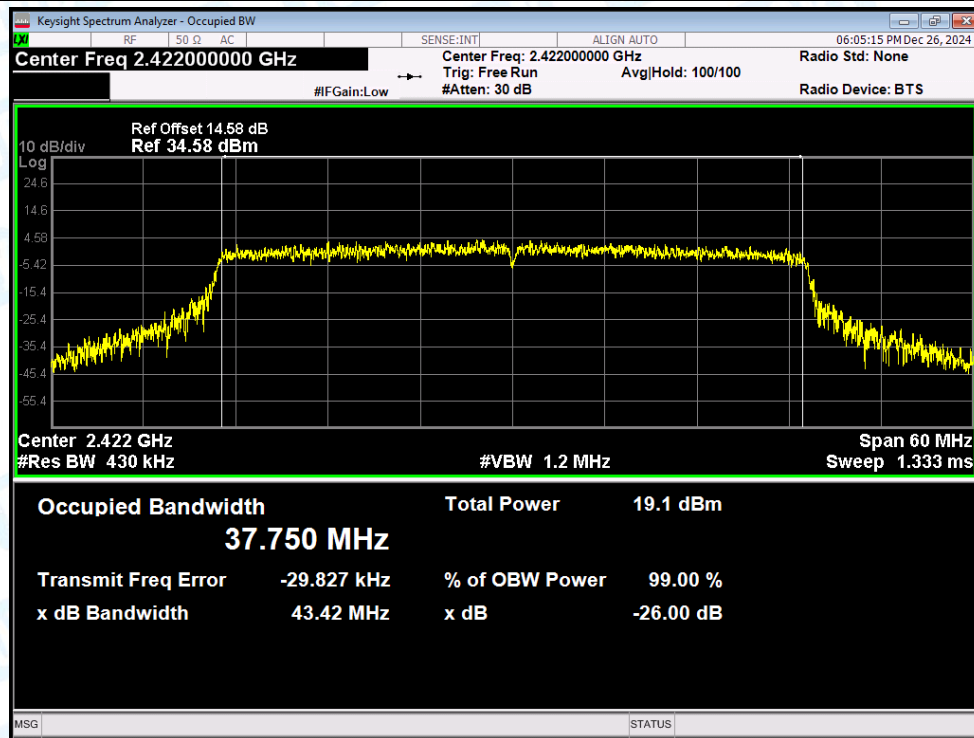
OBW NVNT ax(VHT20) 2437MHz Ant1



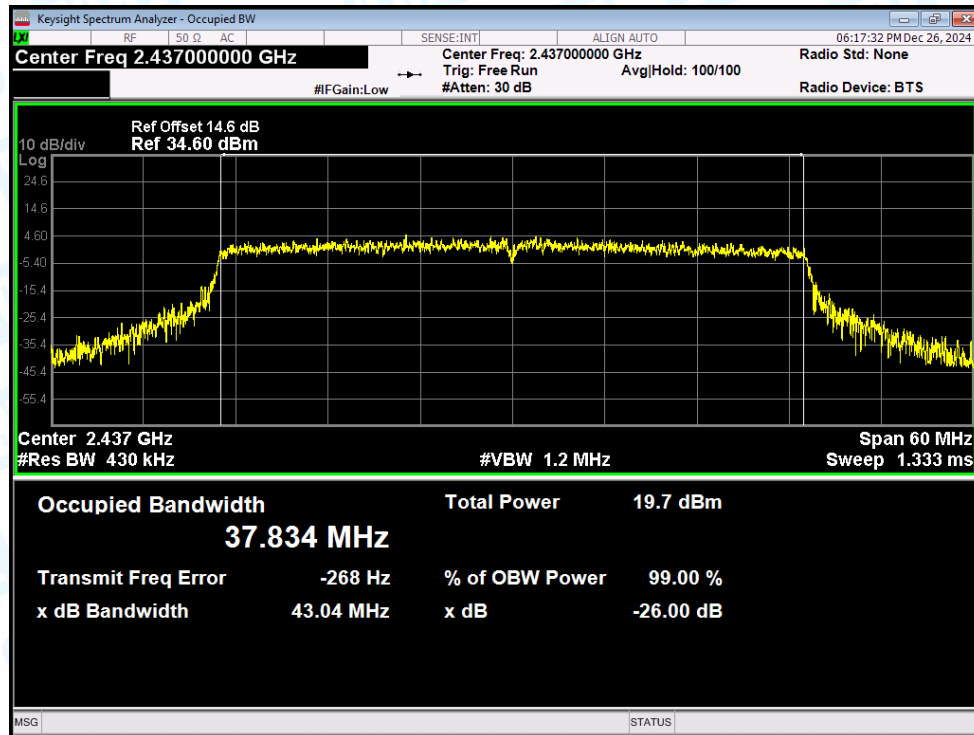
OBW NVNT ax(VHT20) 2462MHz Ant1



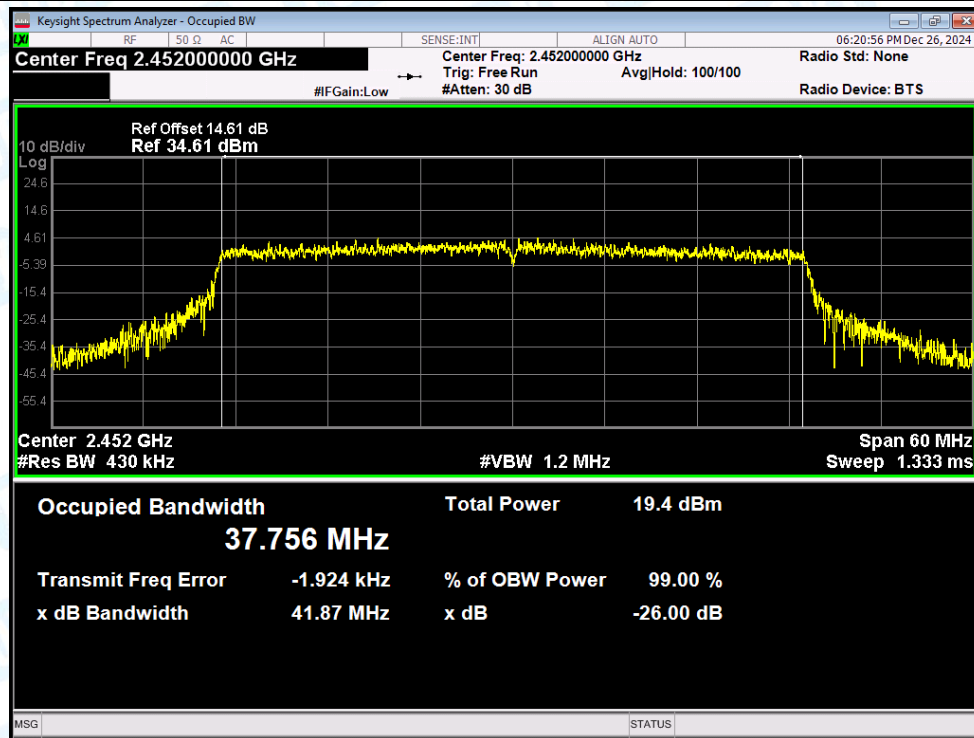
OBW NVNT ax(VHT40) 2422MHz Ant1



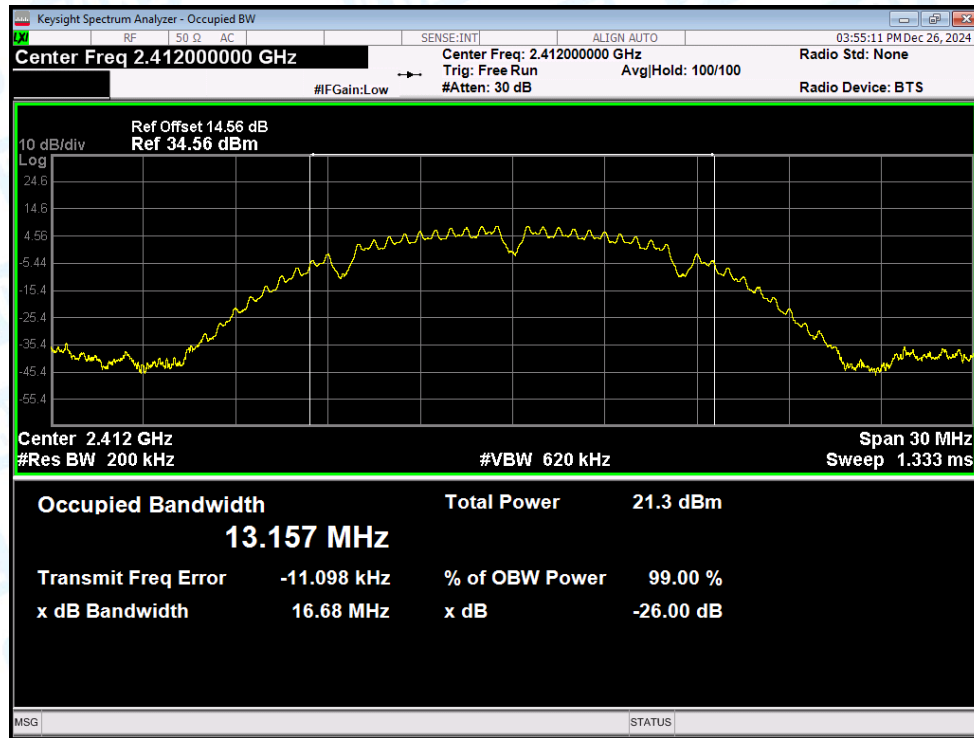
OBW NVNT ax(VHT40) 2437MHz Ant1



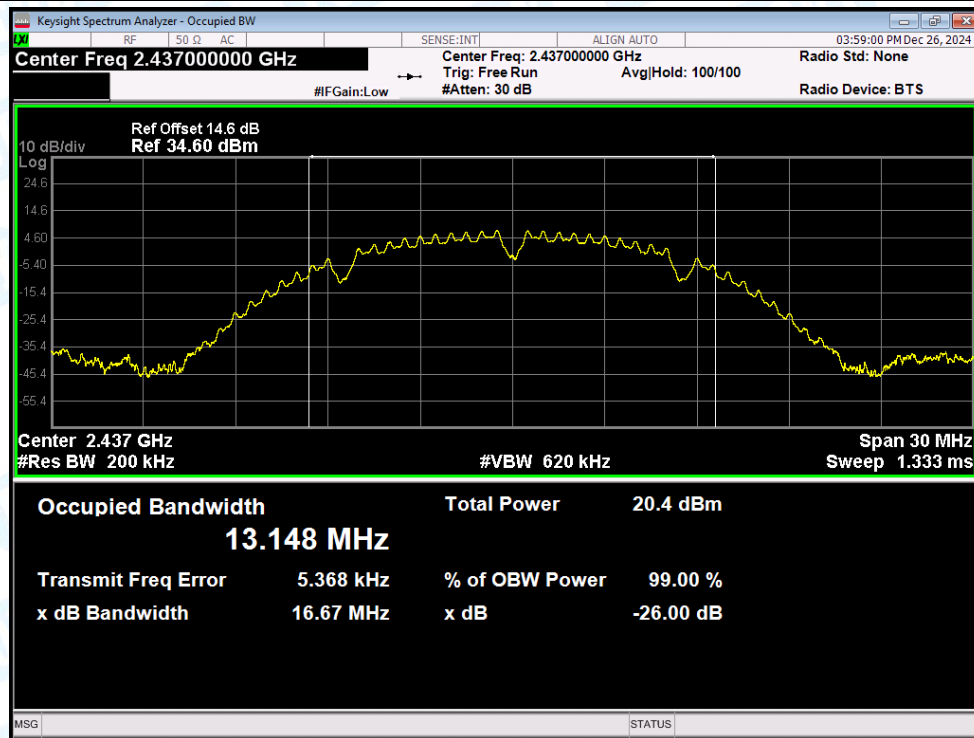
OBW NVNT ax(VHT40) 2452MHz Ant1



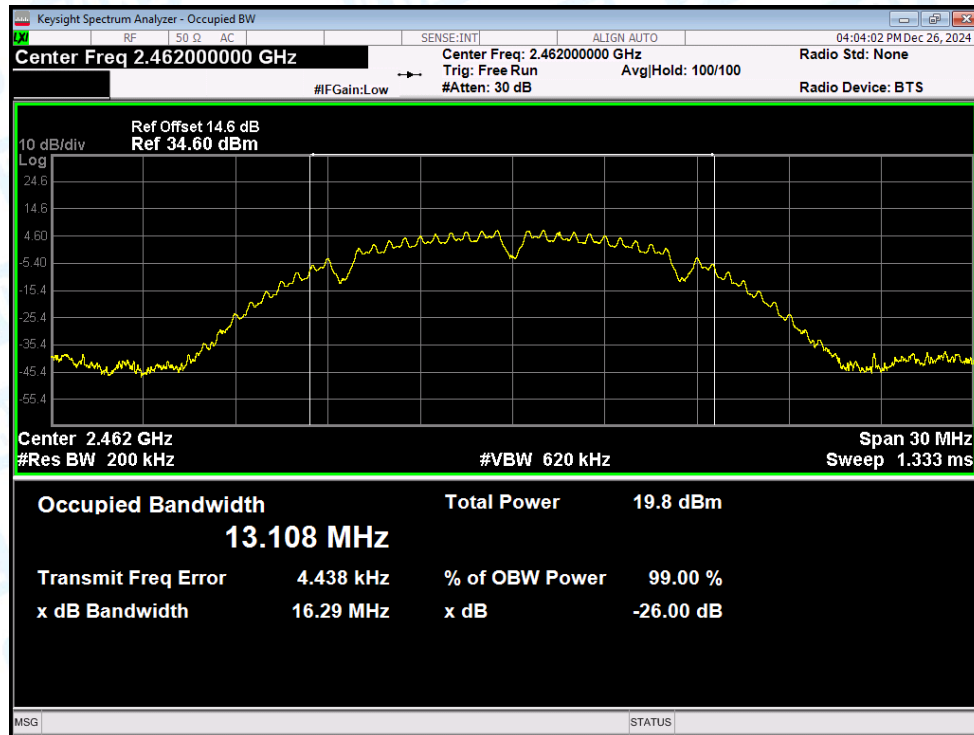
OBW NVNT b 2412MHz Ant1



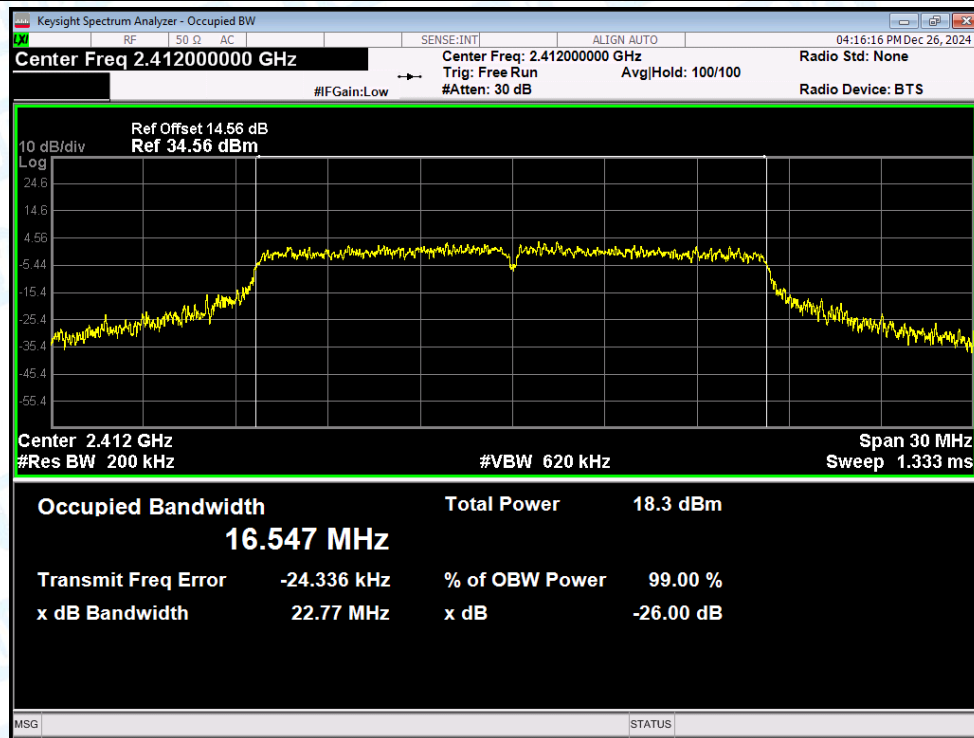
OBW NVNT b 2437MHz Ant1



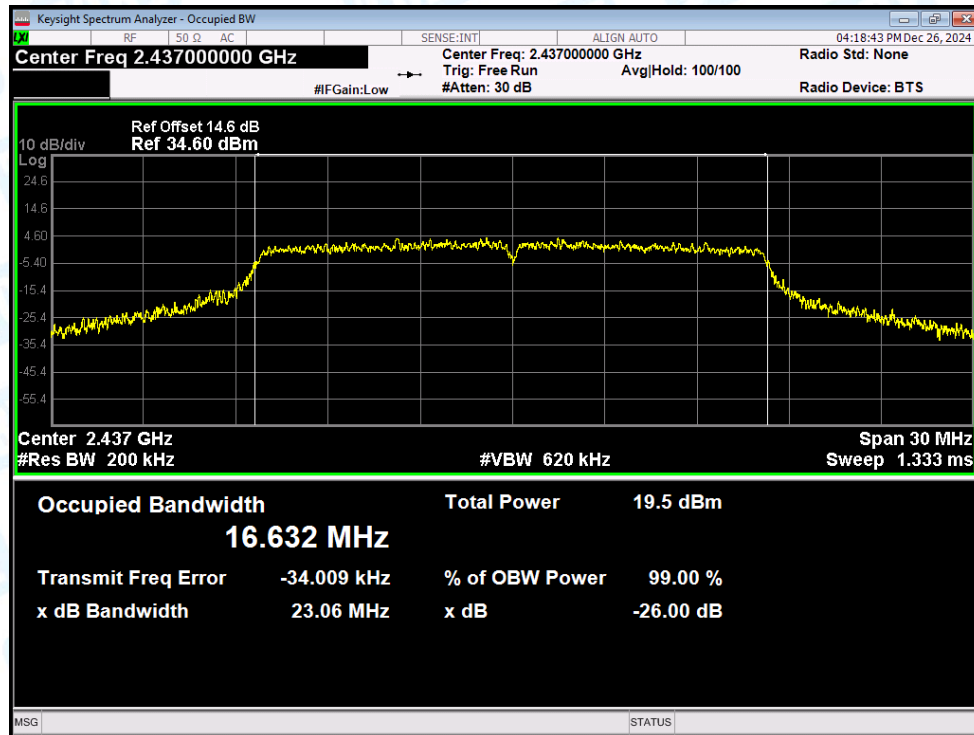
OBW NVNT b 2462MHz Ant1



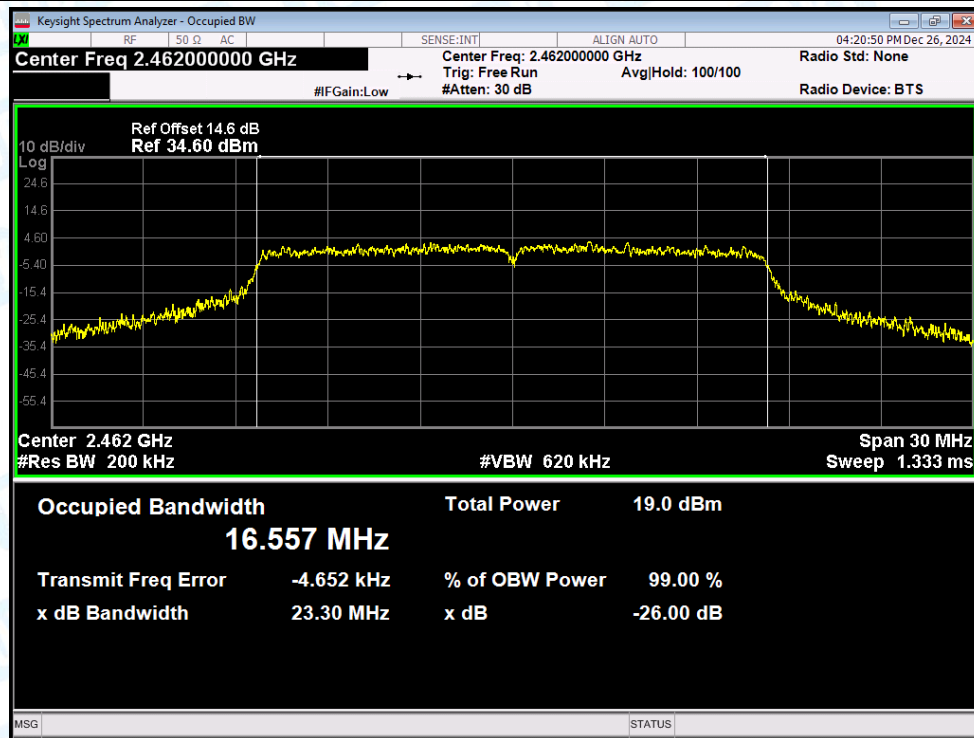
OBW NVNT g 2412MHz Ant1



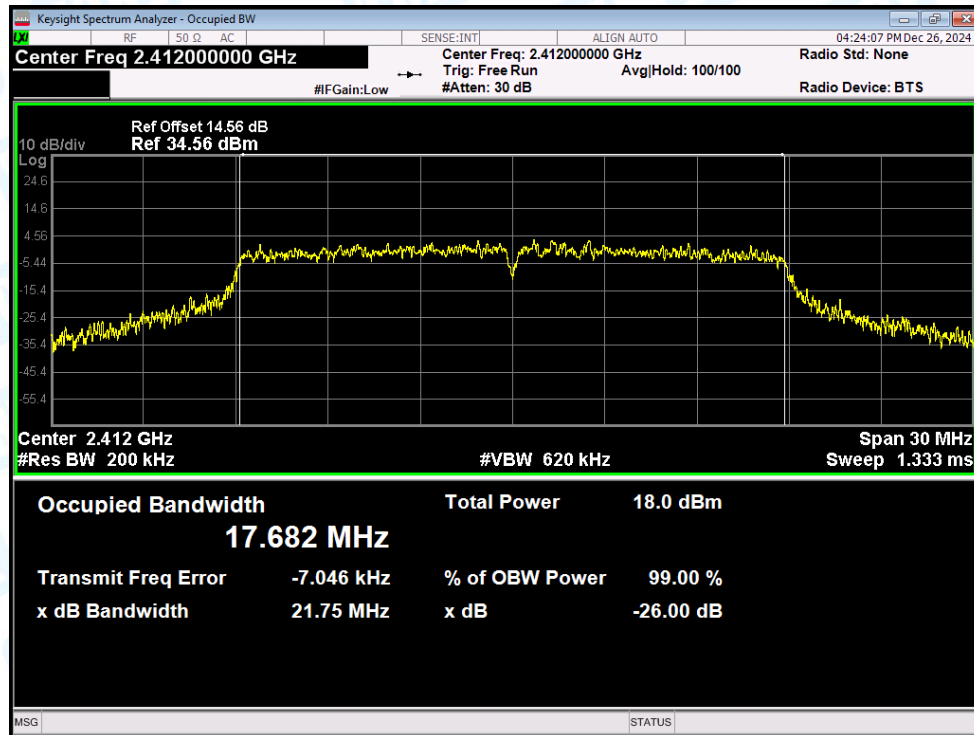
OBW NVNT g 2437MHz Ant1



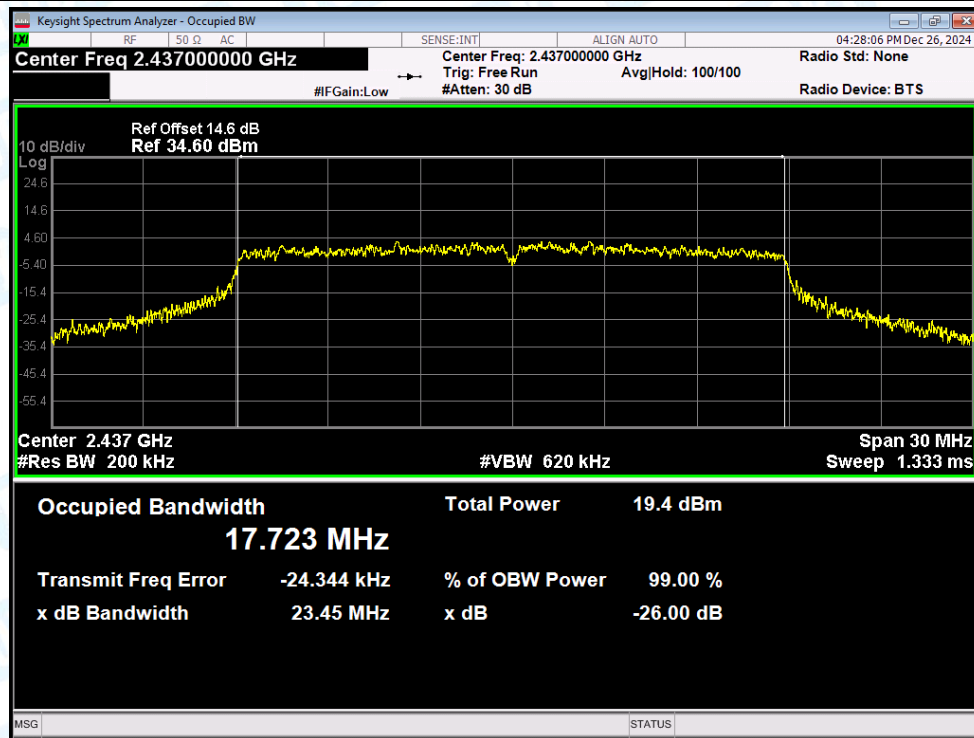
OBW NVNT g 2462MHz Ant1



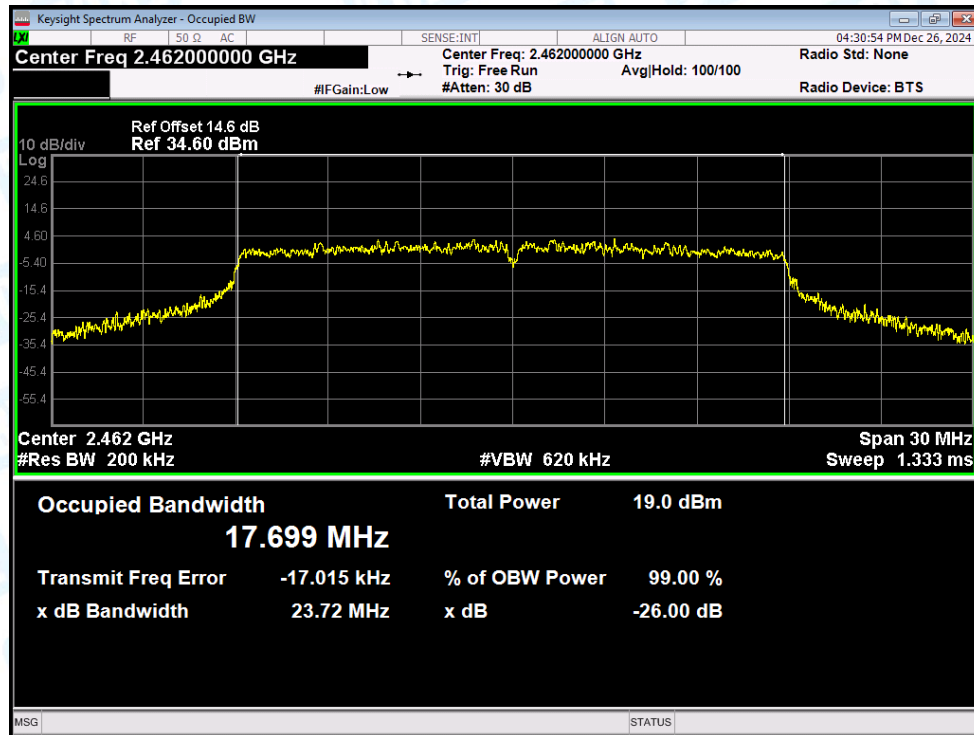
OBW NVNT n(HT20) 2412MHz Ant1



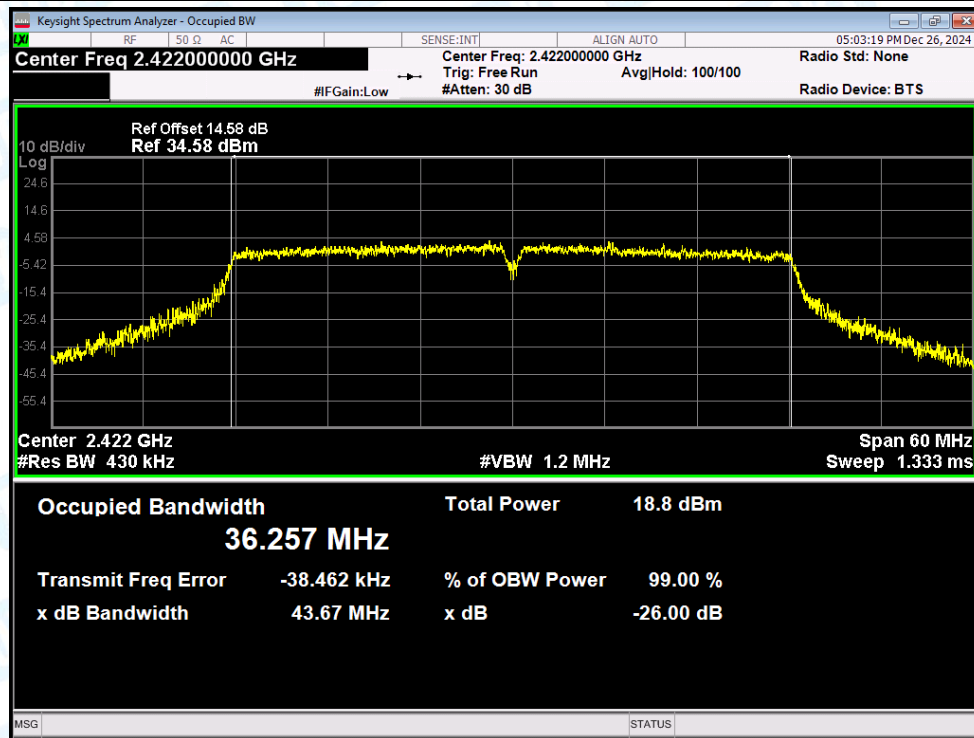
OBW NVNT n(HT20) 2437MHz Ant1



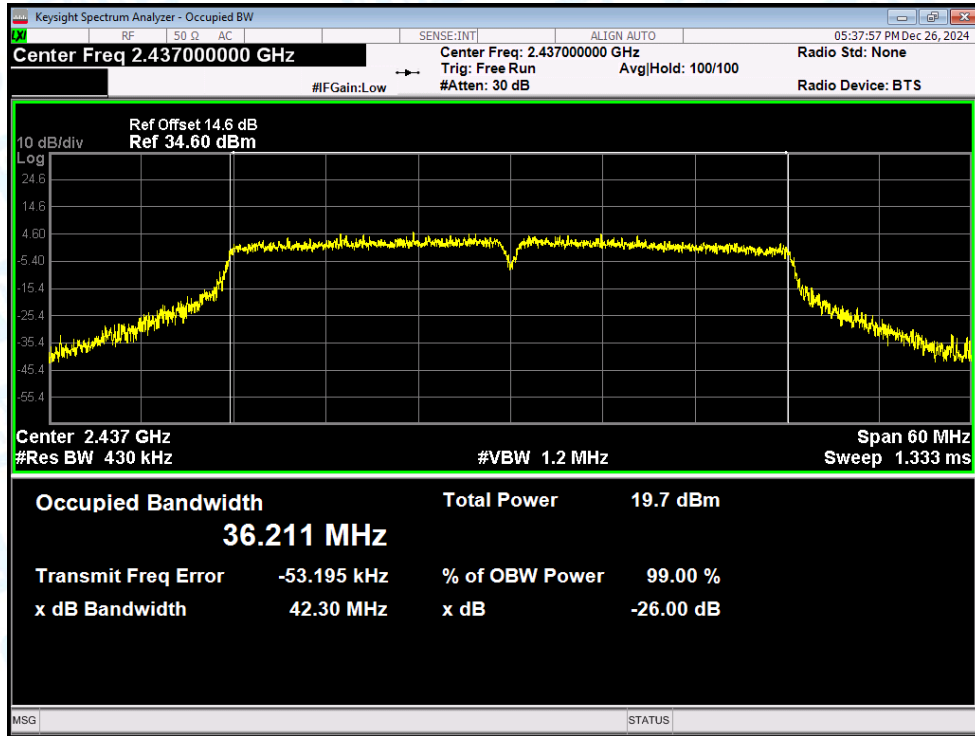
OBW NVNT n(HT20) 2462MHz Ant1



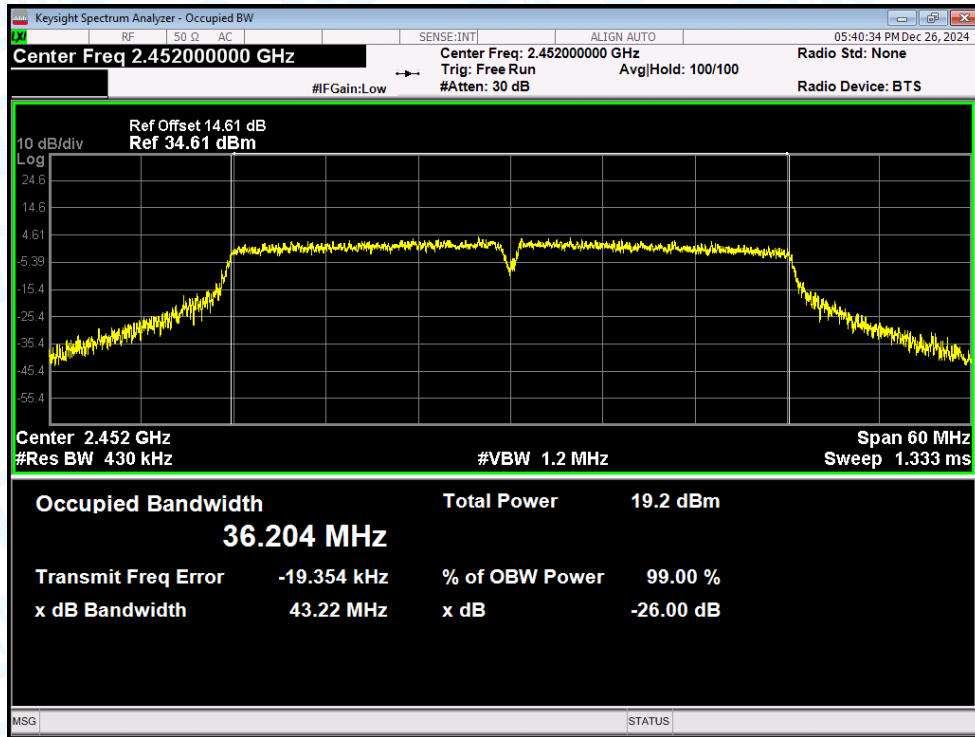
OBW NVNT n(HT40) 2422MHz Ant1



OBW NVNT n(HT40) 2437MHz Ant1



OBW NVNT n(HT40) 2452MHz Ant1



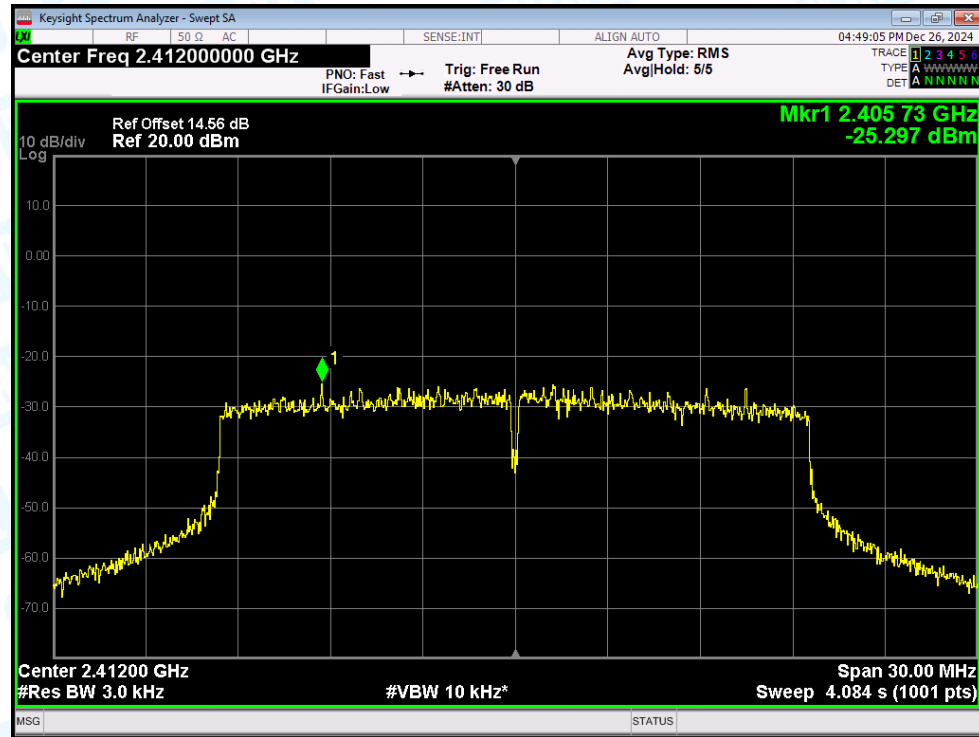
5. Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	ax(VHT20)	2412	Ant1	-25.297	8	Pass
NVNT	ax(VHT20)	2437	Ant1	-24.411	8	Pass
NVNT	ax(VHT20)	2462	Ant1	-26.01	8	Pass
NVNT	ax(VHT40)	2422	Ant1	-28.622	8	Pass
NVNT	ax(VHT40)	2437	Ant1	-27.62	8	Pass
NVNT	ax(VHT40)	2452	Ant1	-27.201	8	Pass
NVNT	b	2412	Ant1	-15.97	8	Pass
NVNT	b	2437	Ant1	-15.419	8	Pass
NVNT	b	2462	Ant1	-16.947	8	Pass
NVNT	g	2412	Ant1	-21.128	8	Pass
NVNT	g	2437	Ant1	-20.954	8	Pass
NVNT	g	2462	Ant1	-21.641	8	Pass
NVNT	n(HT20)	2412	Ant1	-23.241	8	Pass
NVNT	n(HT20)	2437	Ant1	-23.247	8	Pass
NVNT	n(HT20)	2462	Ant1	-23.414	8	Pass
NVNT	n(HT40)	2422	Ant1	-27.142	8	Pass
NVNT	n(HT40)	2437	Ant1	-26.395	8	Pass
NVNT	n(HT40)	2452	Ant1	-26.975	8	Pass

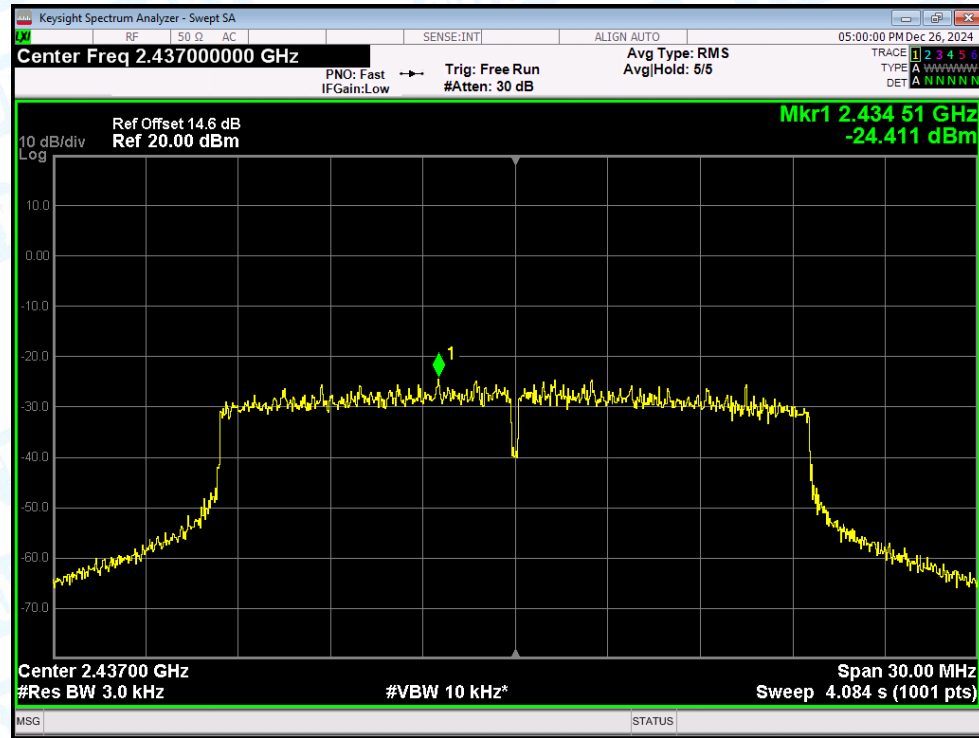
Note: The Duty Cycle Factor is compensated in the graph.

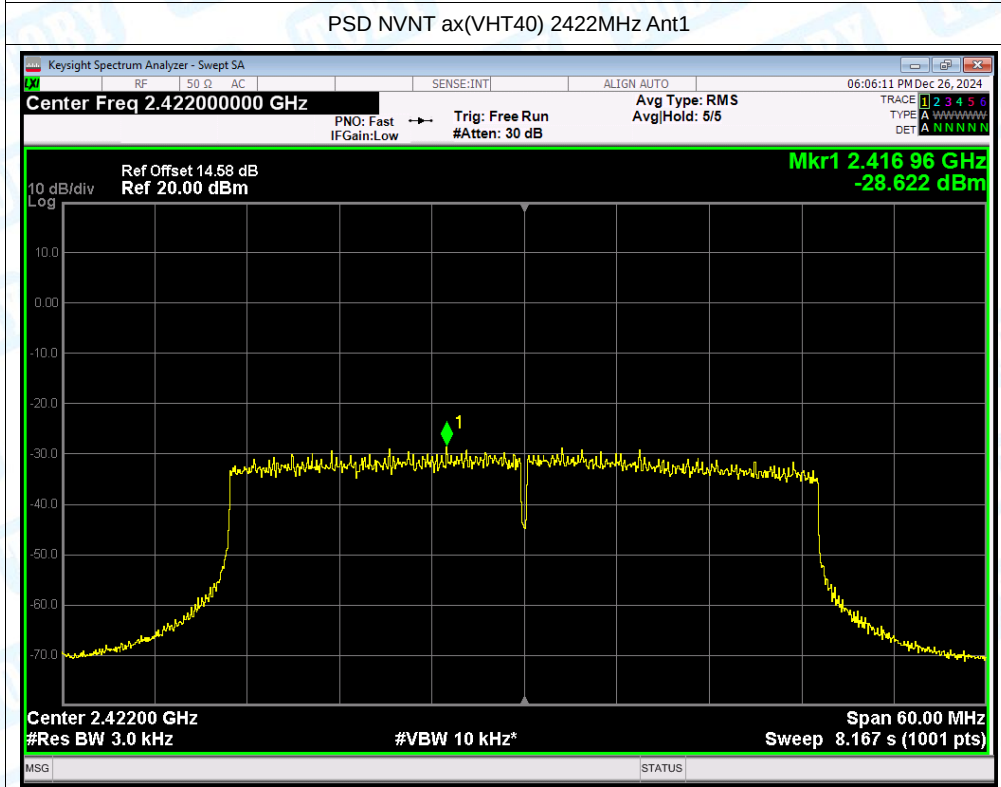
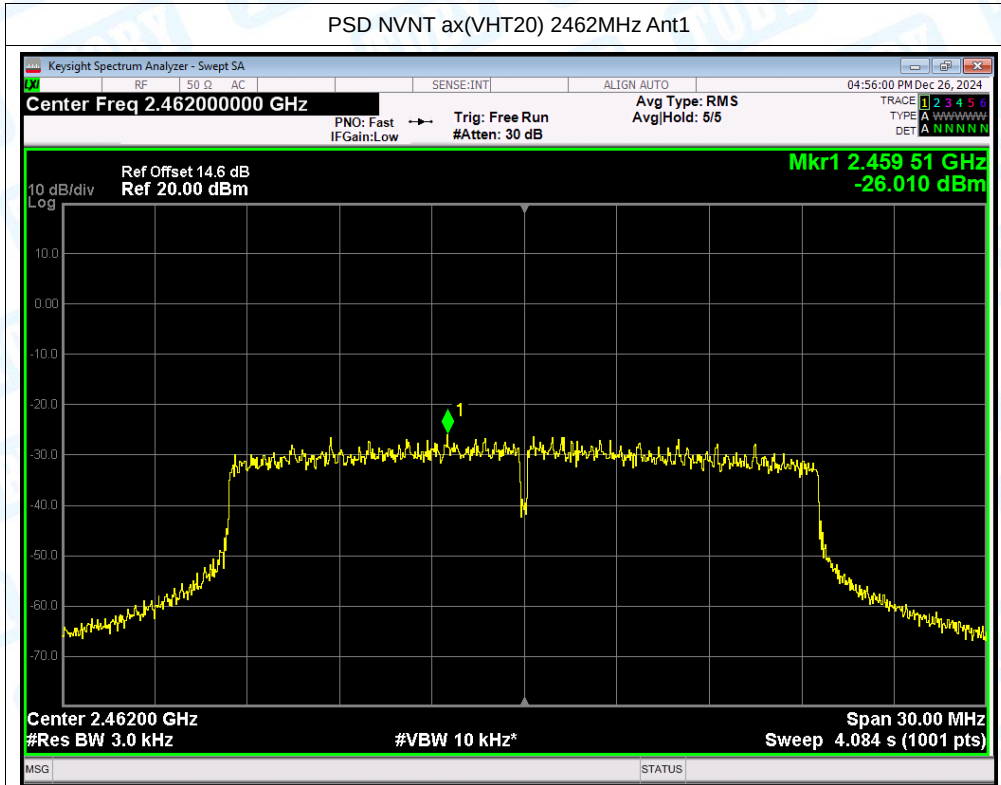
Test Graphs

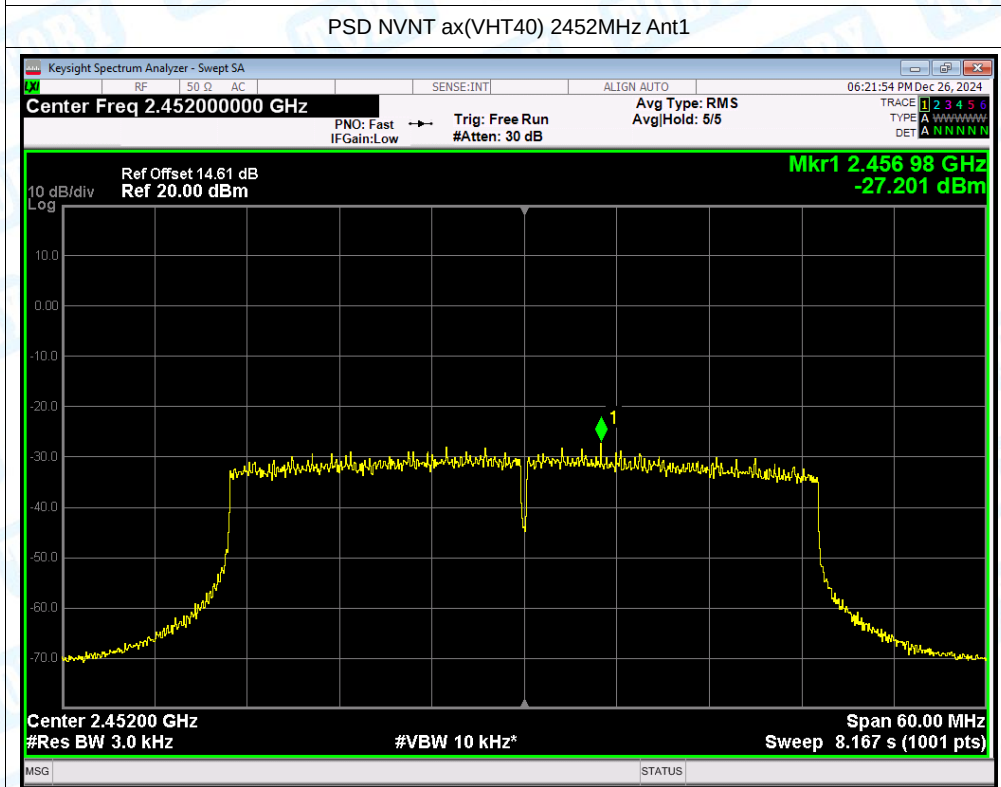
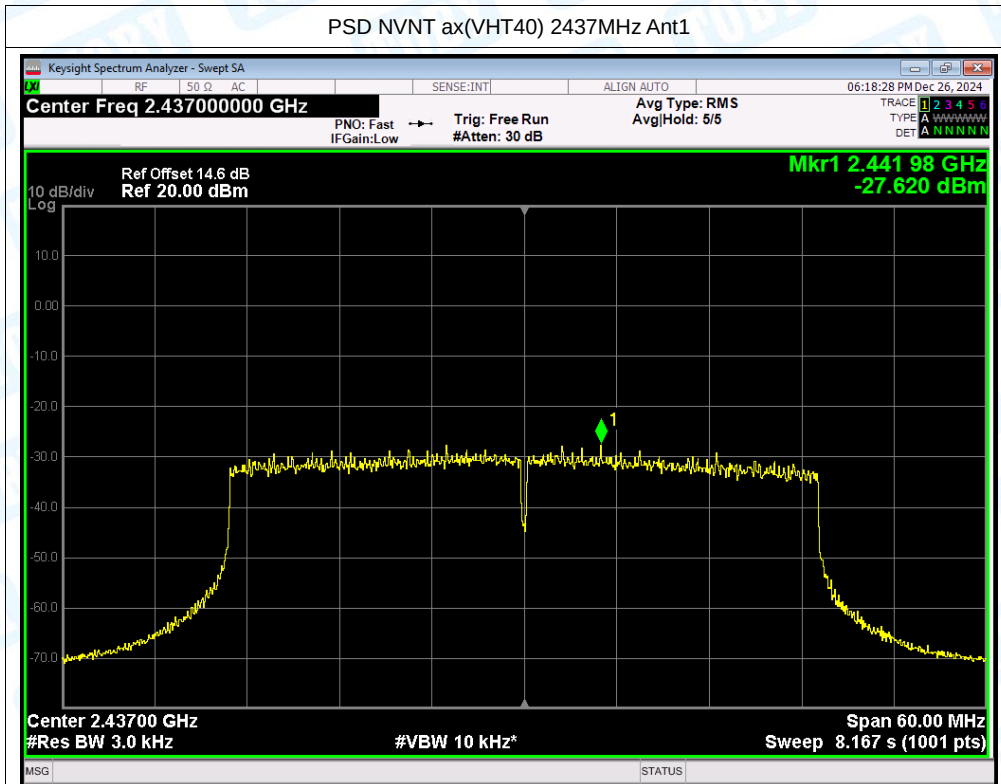
PSD NVNT ax(VHT20) 2412MHz Ant1



PSD NVNT ax(VHT20) 2437MHz Ant1







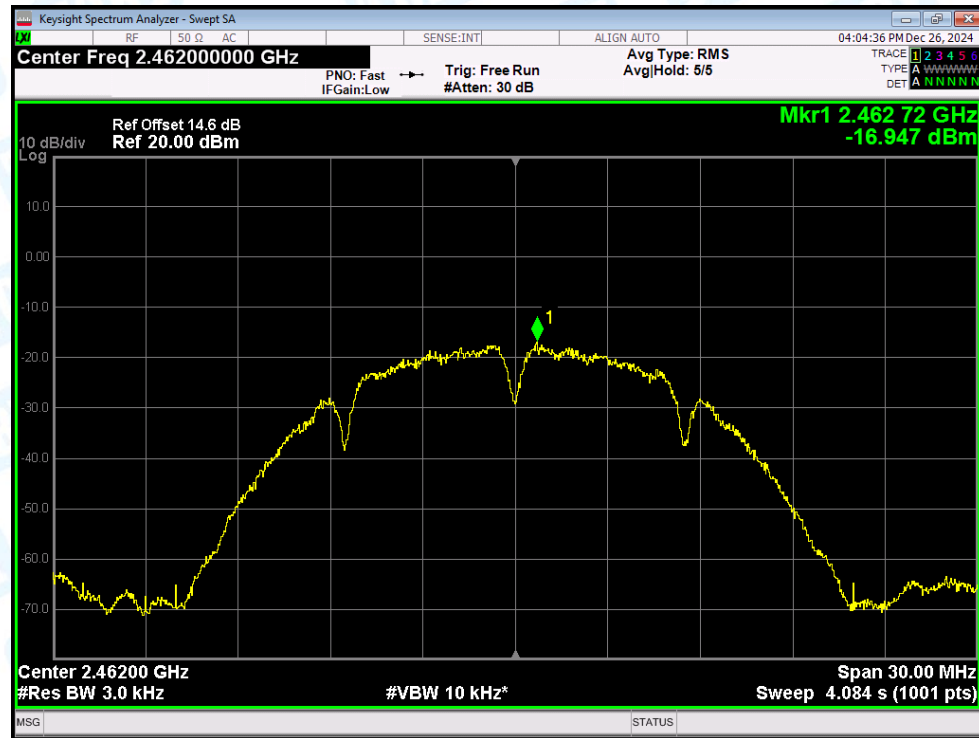
PSD NVNT b 2412MHz Ant1



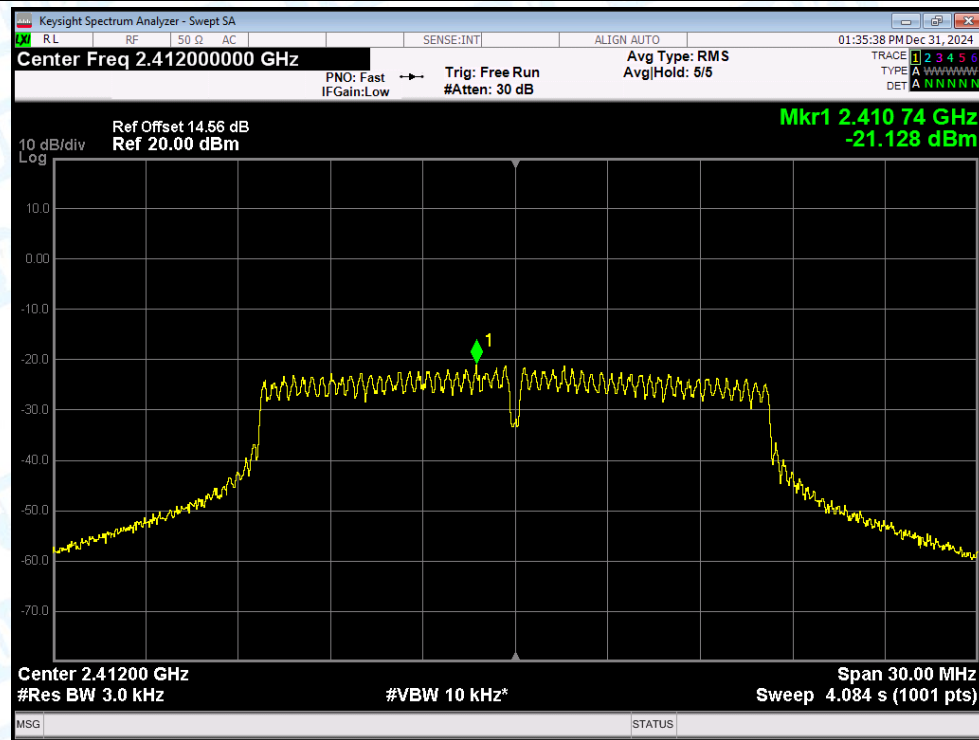
PSD NVNT b 2437MHz Ant1



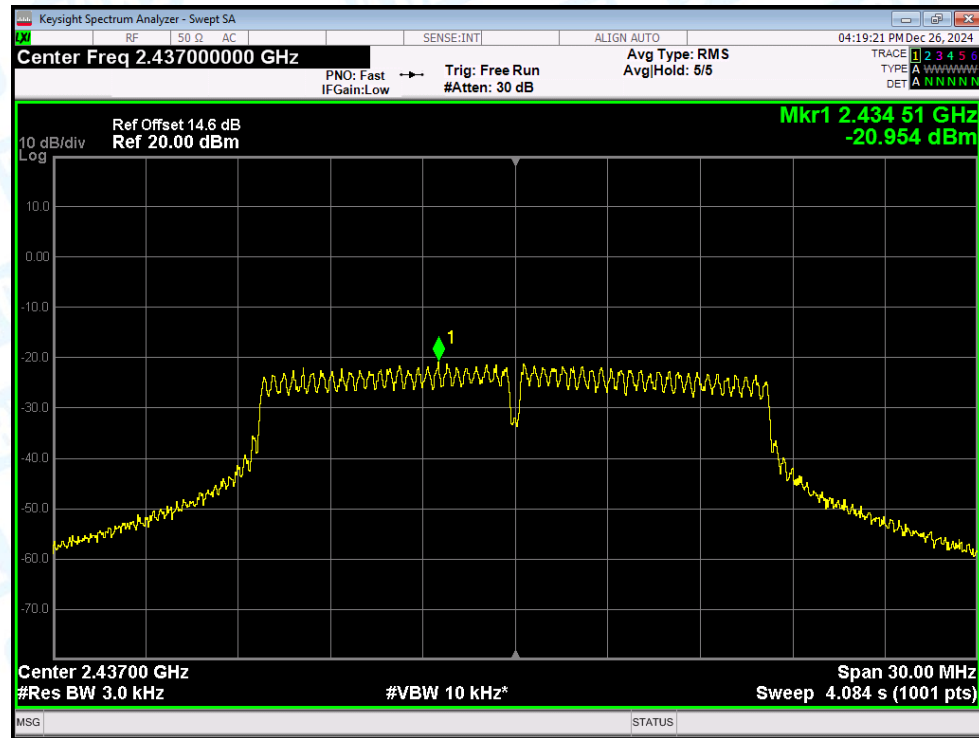
PSD NVNT b 2462MHz Ant1



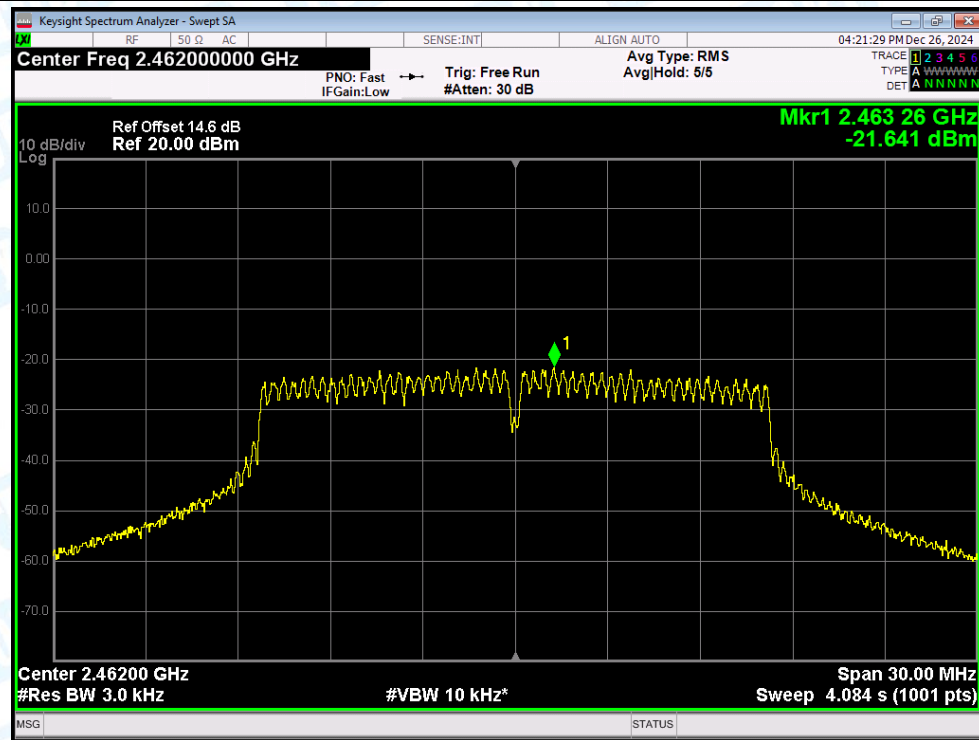
PSD NVNT g 2412MHz Ant1



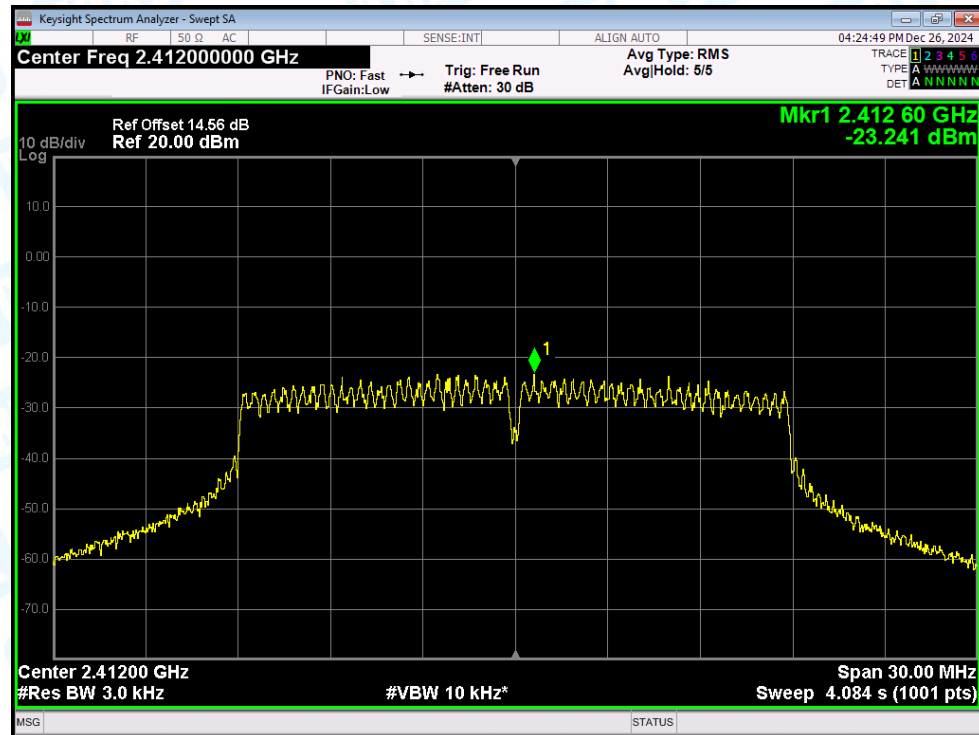
PSD NVNT g 2437MHz Ant1



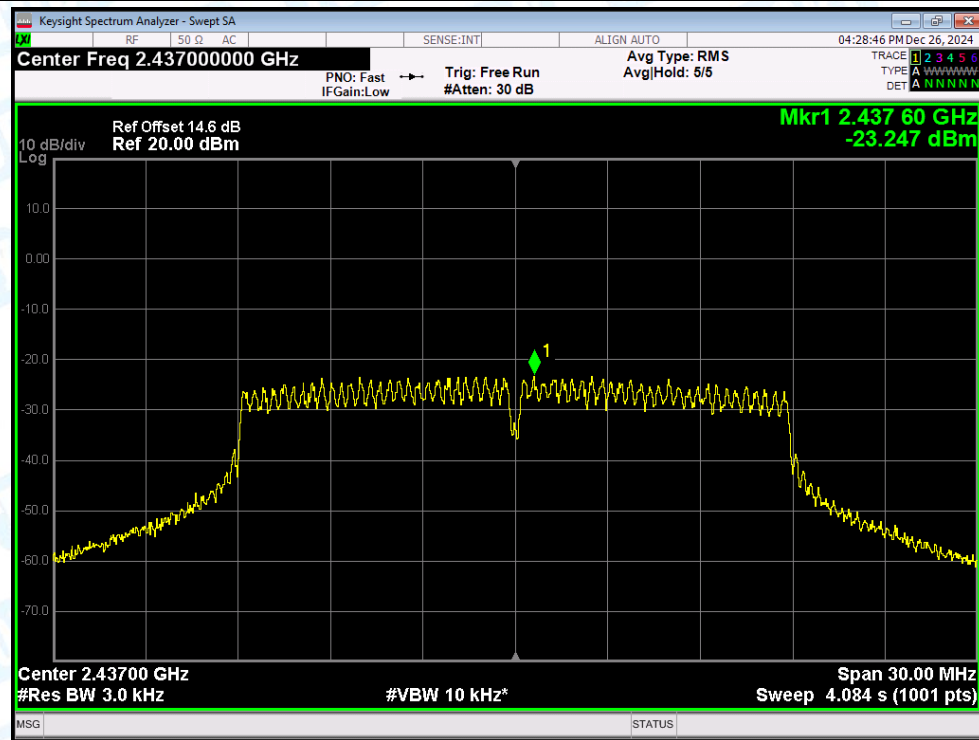
PSD NVNT g 2462MHz Ant1



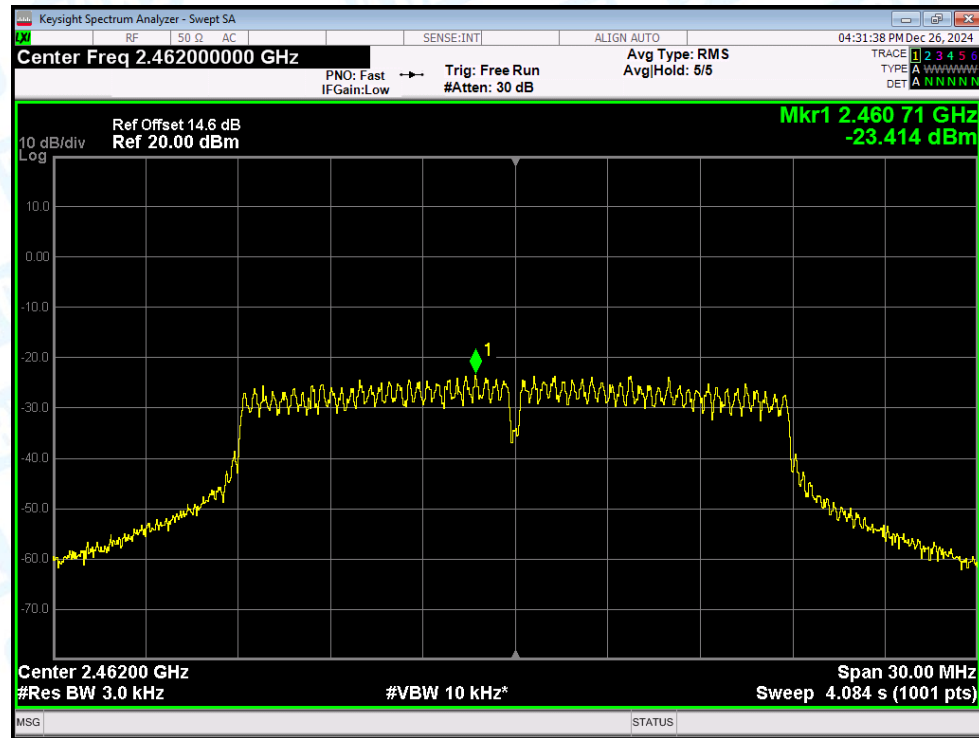
PSD NVNT n(HT20) 2412MHz Ant1



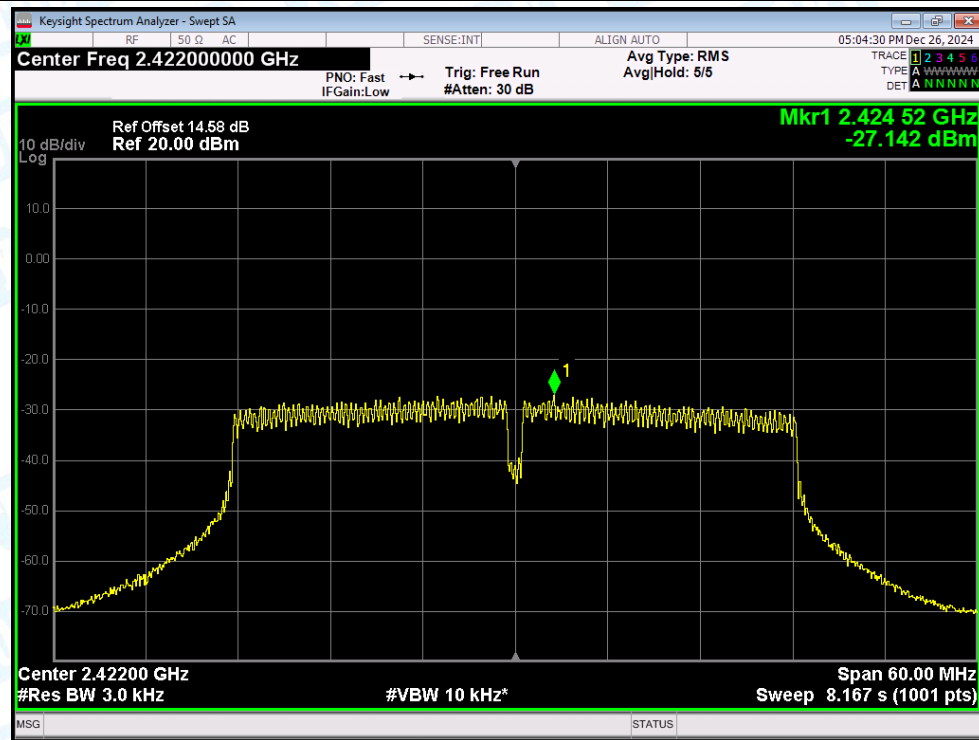
PSD NVNT n(HT20) 2437MHz Ant1



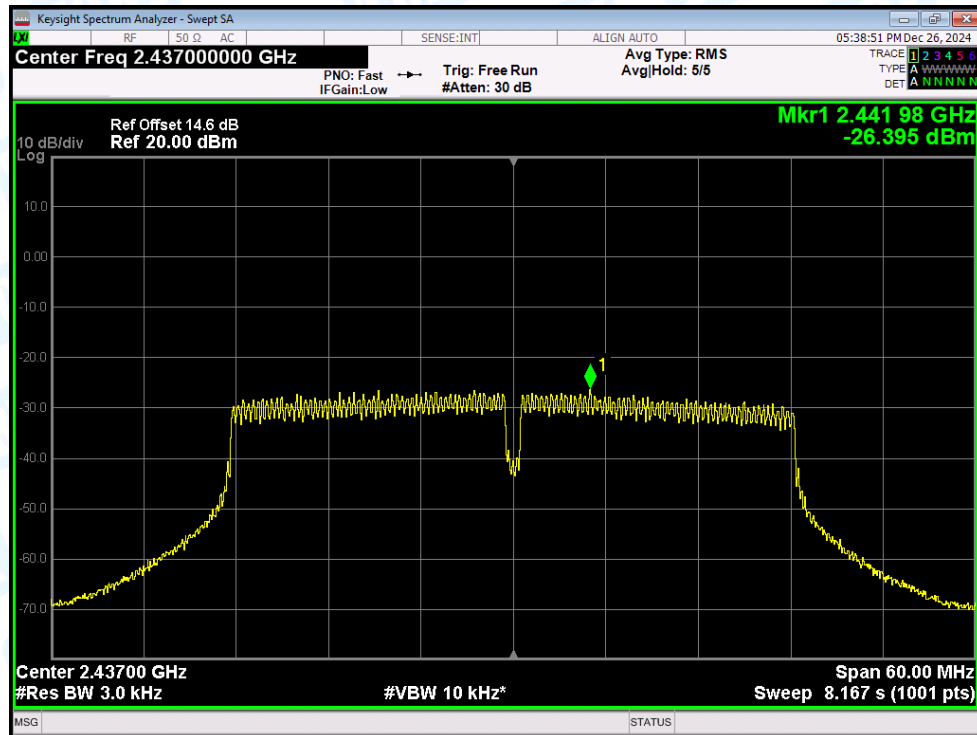
PSD NVNT n(HT20) 2462MHz Ant1



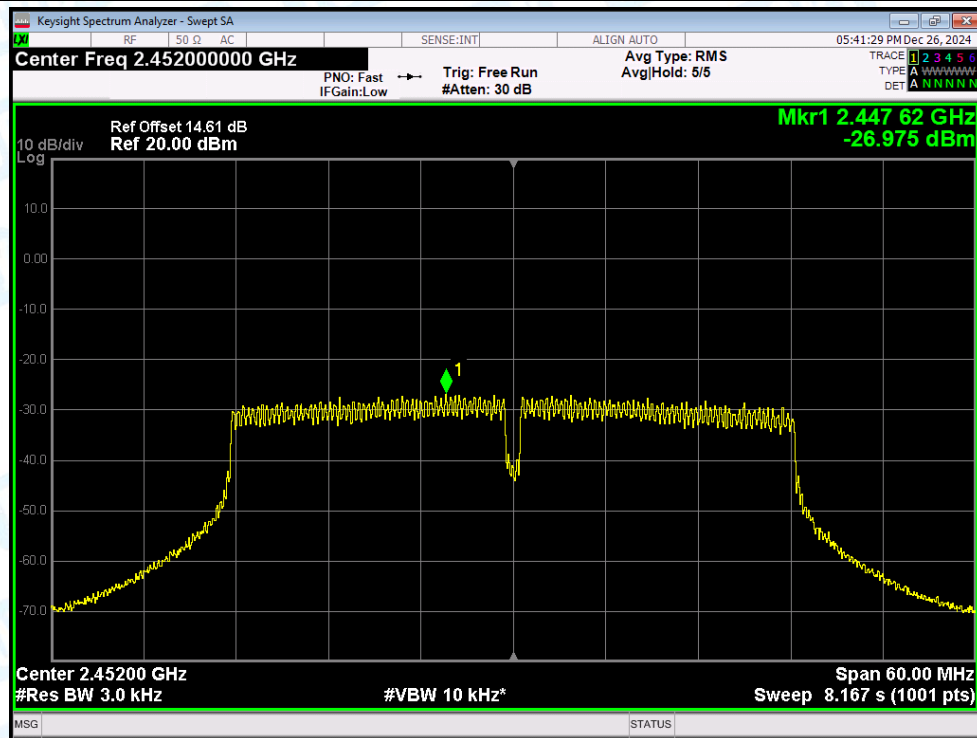
PSD NVNT n(HT40) 2422MHz Ant1



PSD NVNT n(HT40) 2437MHz Ant1



PSD NVNT n(HT40) 2452MHz Ant1

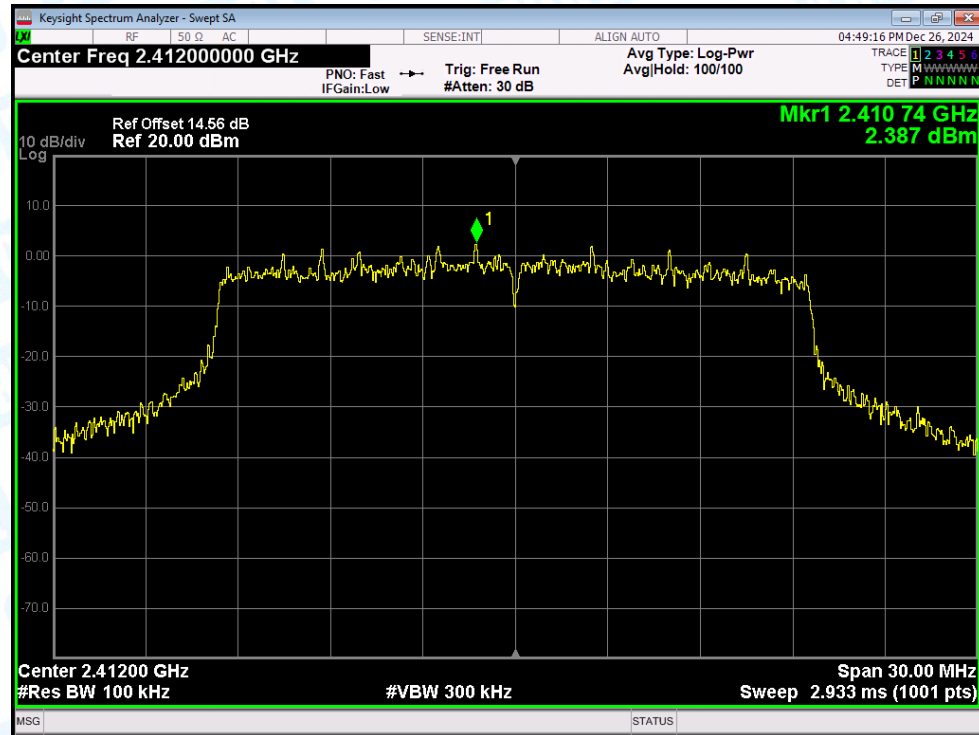


6. Band Edge

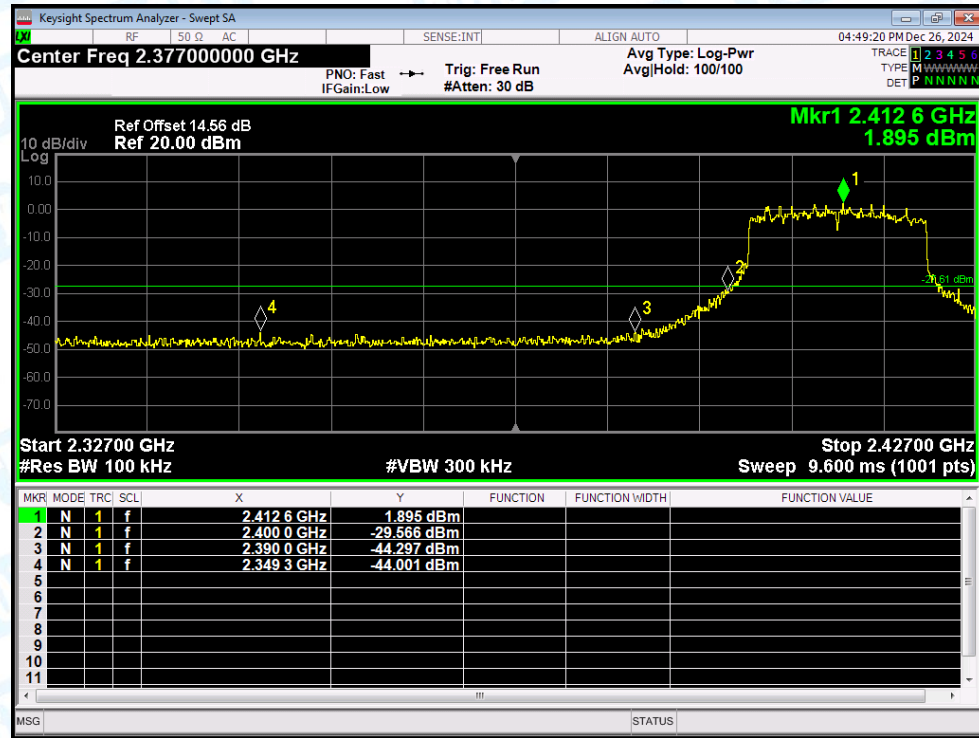
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	ax(VHT20)	2412	Ant1	-46.39	-30	Pass
NVNT	ax(VHT20)	2462	Ant1	-44.38	-30	Pass
NVNT	ax(VHT40)	2422	Ant1	-40.61	-30	Pass
NVNT	ax(VHT40)	2452	Ant1	-42.06	-30	Pass
NVNT	b	2412	Ant1	-52.29	-30	Pass
NVNT	b	2462	Ant1	-51.01	-30	Pass
NVNT	g	2412	Ant1	-44.44	-30	Pass
NVNT	g	2462	Ant1	-45.23	-30	Pass
NVNT	n(HT20)	2412	Ant1	-45.27	-30	Pass
NVNT	n(HT20)	2462	Ant1	-46.26	-30	Pass
NVNT	n(HT40)	2422	Ant1	-42.09	-30	Pass
NVNT	n(HT40)	2452	Ant1	-40.8	-30	Pass

Test Graphs

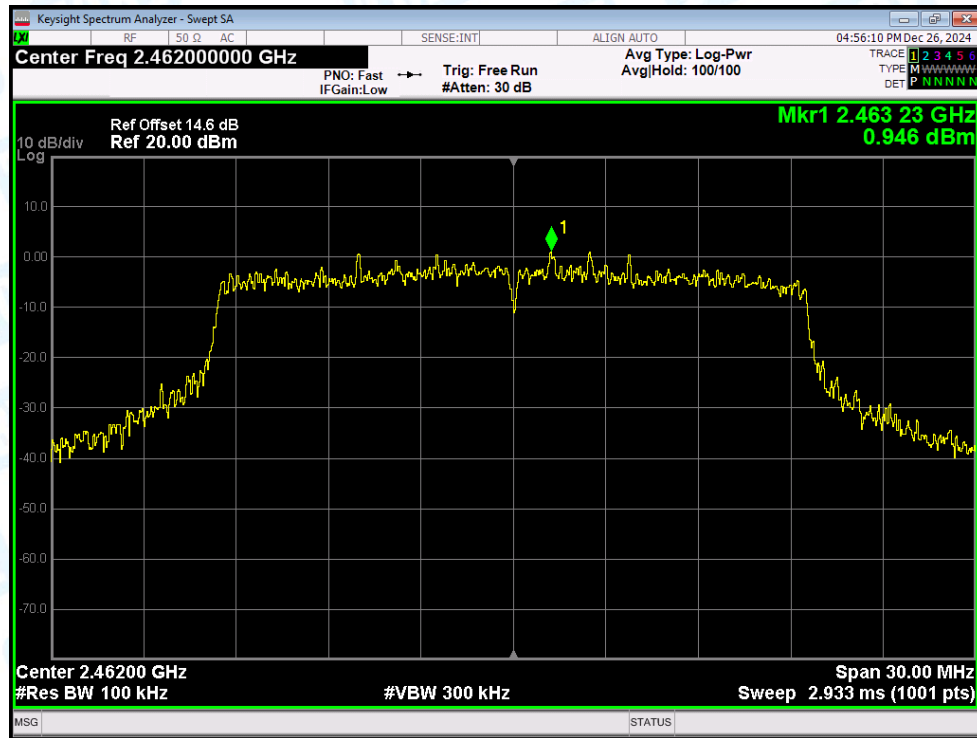
Band Edge NVNT ax(VHT20) 2412MHz Ant1 Ref



Band Edge NVNT ax(VHT20) 2412MHz Ant1 Emission



Band Edge NVNT ax(VHT20) 2462MHz Ant1 Ref



Band Edge NVNT ax(VHT20) 2462MHz Ant1 Emission

