

RF Test Data for 2.4G WiFi (Conducted Measurements)

General Description of EUT	
Product Name:	Rechargeable Indoor Camera
Test Model:	CM-CB2U
Sample ID:	HC-C-202511-0171-01-01#
Environmental Conditions	
Temperature:	25℃
Relative Humidity:	55%
Test Voltage:	DC 3.7V
Test Engineer:	Lily Zhang
Note: For a more detailed features description, please refer to the report TBR-C-202511-0171-21 The report only show the worst case data.	

Contents

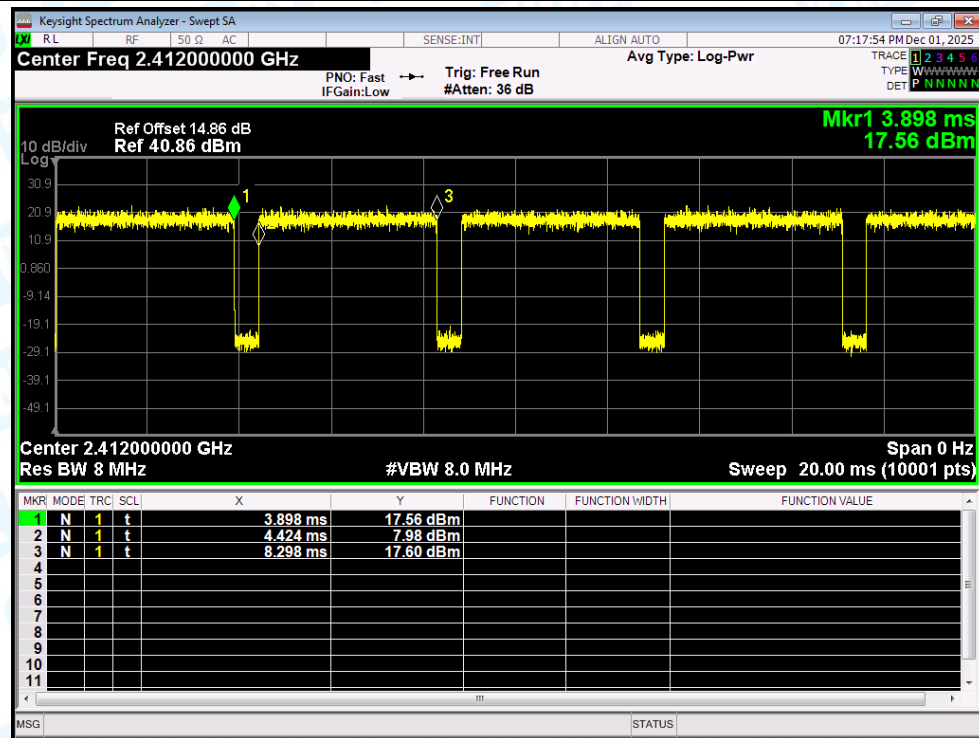
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1.Duty Cycle

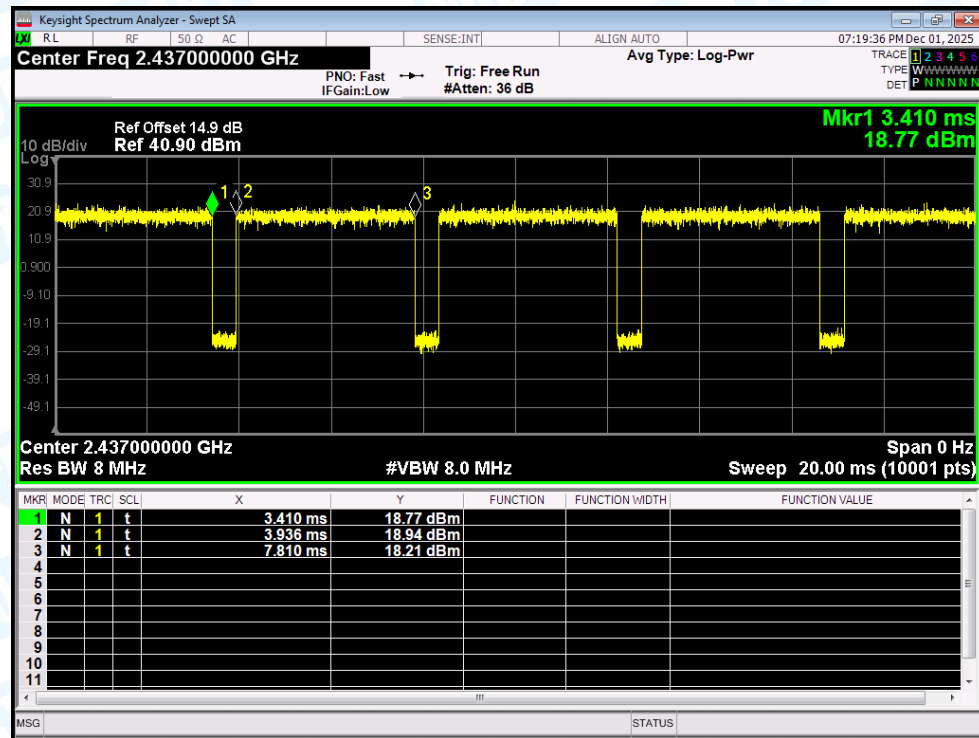
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	ax(VHT20)	2412	Ant1	88.05	0.55	0.26
NVNT	ax(VHT20)	2437	Ant1	88.05	0.55	0.26
NVNT	ax(VHT20)	2462	Ant1	88.13	0.55	0.26
NVNT	ax(VHT40)	2422	Ant1	88.04	0.55	0.26
NVNT	ax(VHT40)	2437	Ant1	88.07	0.55	0.26
NVNT	ax(VHT40)	2452	Ant1	88.03	0.55	0.26
NVNT	b	2412	Ant1	45.66	3.4	0.12
NVNT	b	2437	Ant1	45.69	3.4	0.12
NVNT	b	2462	Ant1	45.66	3.4	0.12
NVNT	g	2412	Ant1	72.89	1.37	0.72
NVNT	g	2437	Ant1	72.78	1.38	0.72
NVNT	g	2462	Ant1	72.63	1.39	0.72
NVNT	n(HT20)	2412	Ant1	90.63	0.43	0.2
NVNT	n(HT20)	2437	Ant1	90.63	0.43	0.2
NVNT	n(HT20)	2462	Ant1	90.7	0.42	0.2
NVNT	n(HT40)	2422	Ant1	90.34	0.44	0.2
NVNT	n(HT40)	2437	Ant1	90.3	0.44	0.2
NVNT	n(HT40)	2452	Ant1	90.4	0.44	0.2

Test Graphs

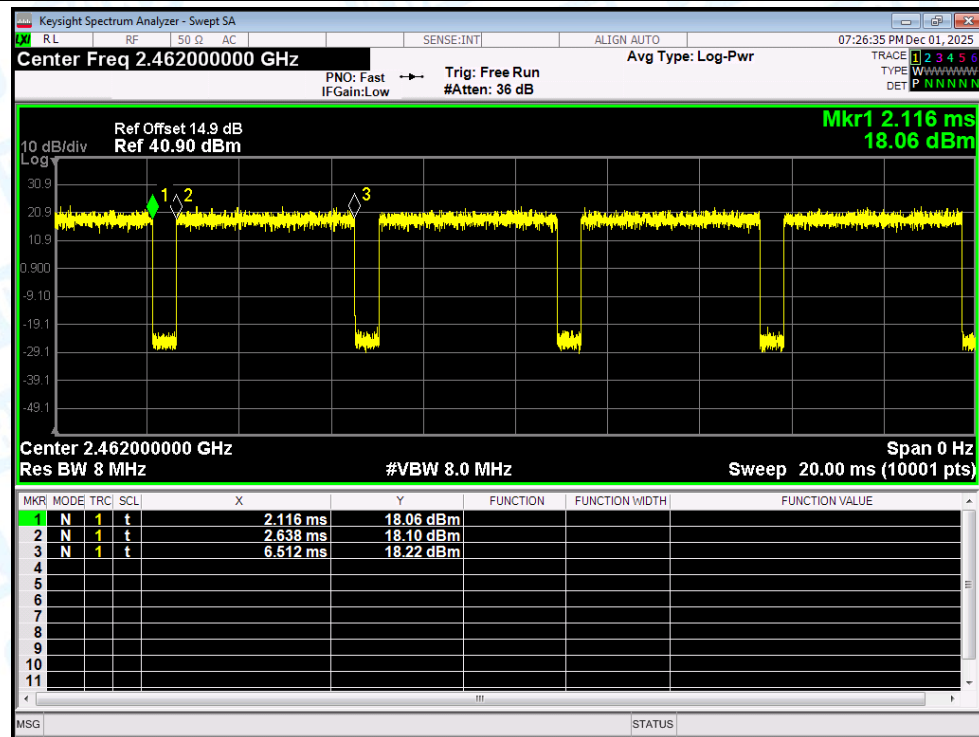
Duty Cycle NVNT ax(VHT20) 2412MHz Ant1



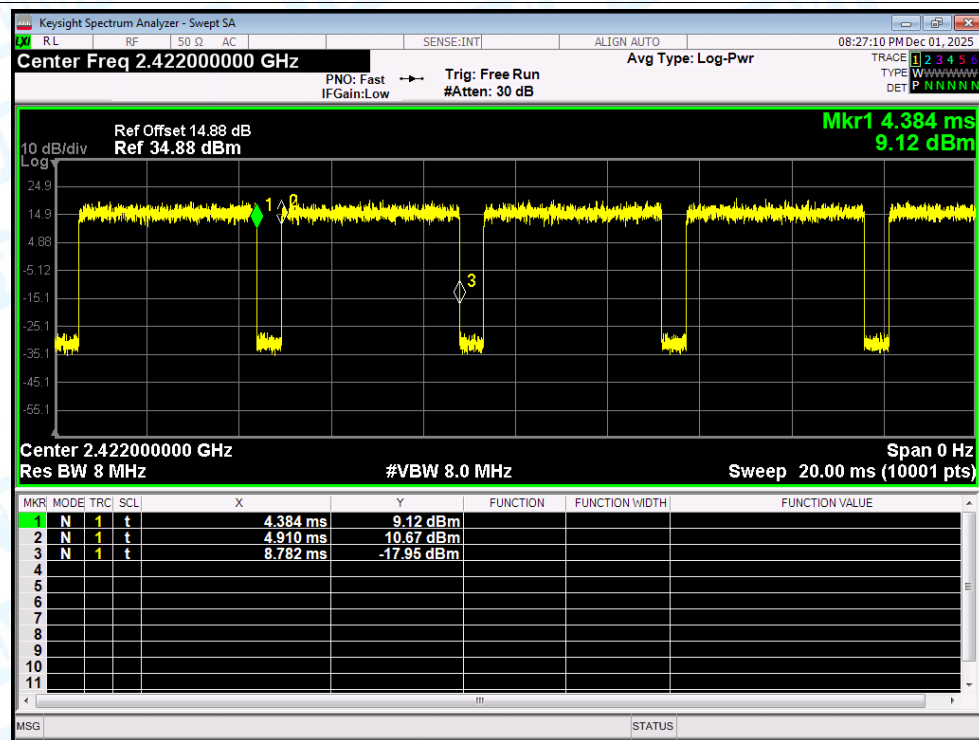
Duty Cycle NVNT ax(VHT20) 2437MHz Ant1



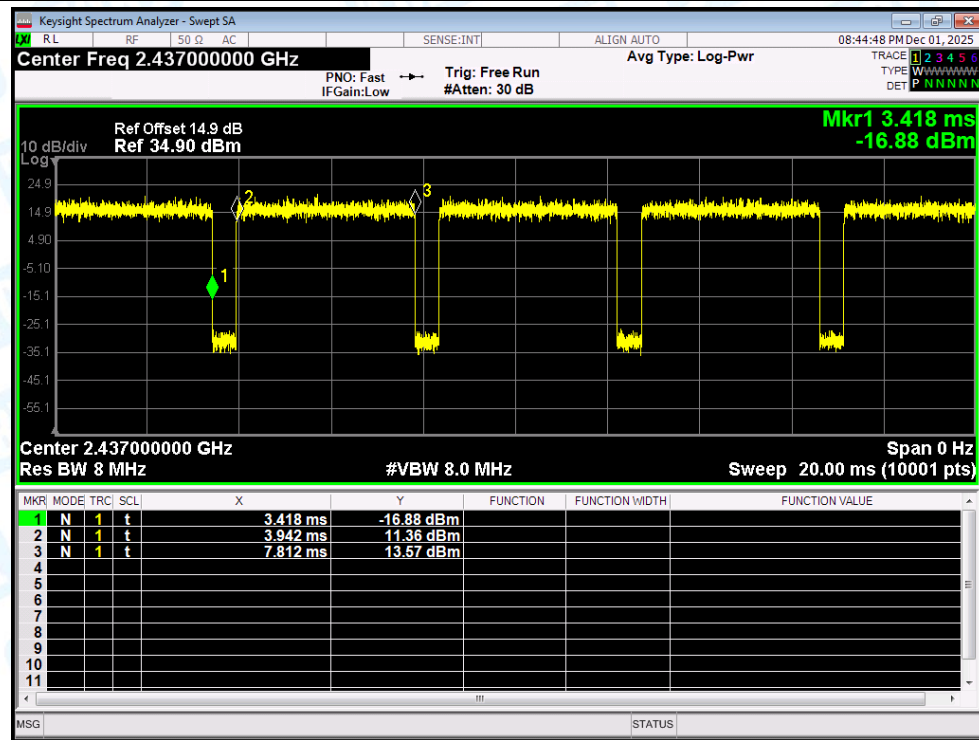
Duty Cycle NVNT ax(VHT20) 2462MHz Ant1



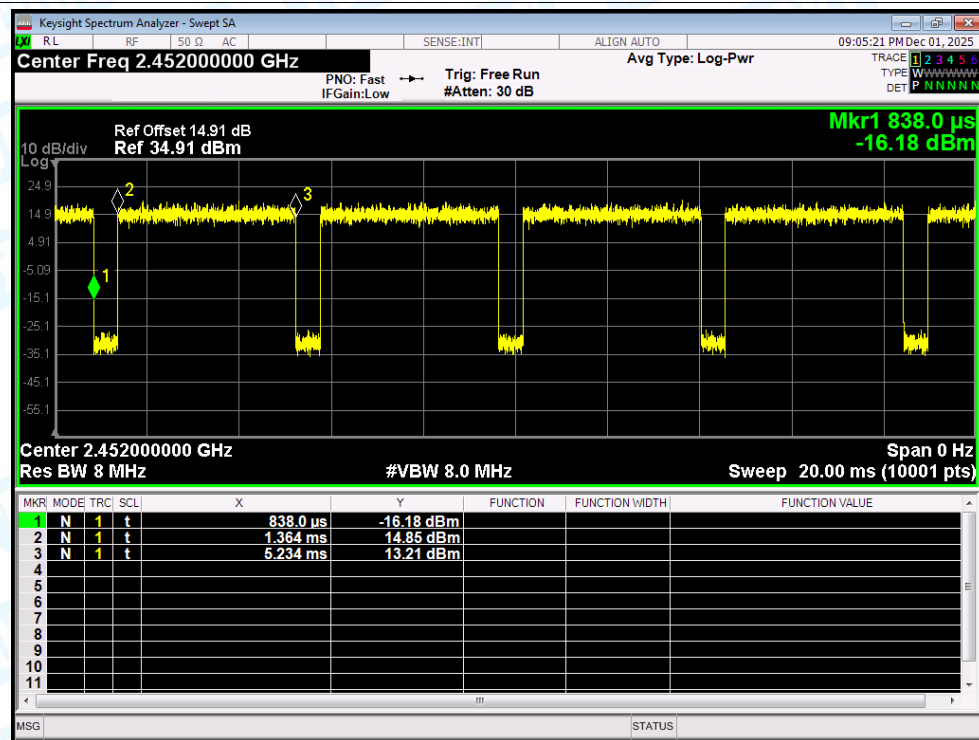
Duty Cycle NVNT ax(VHT40) 2422MHz Ant1



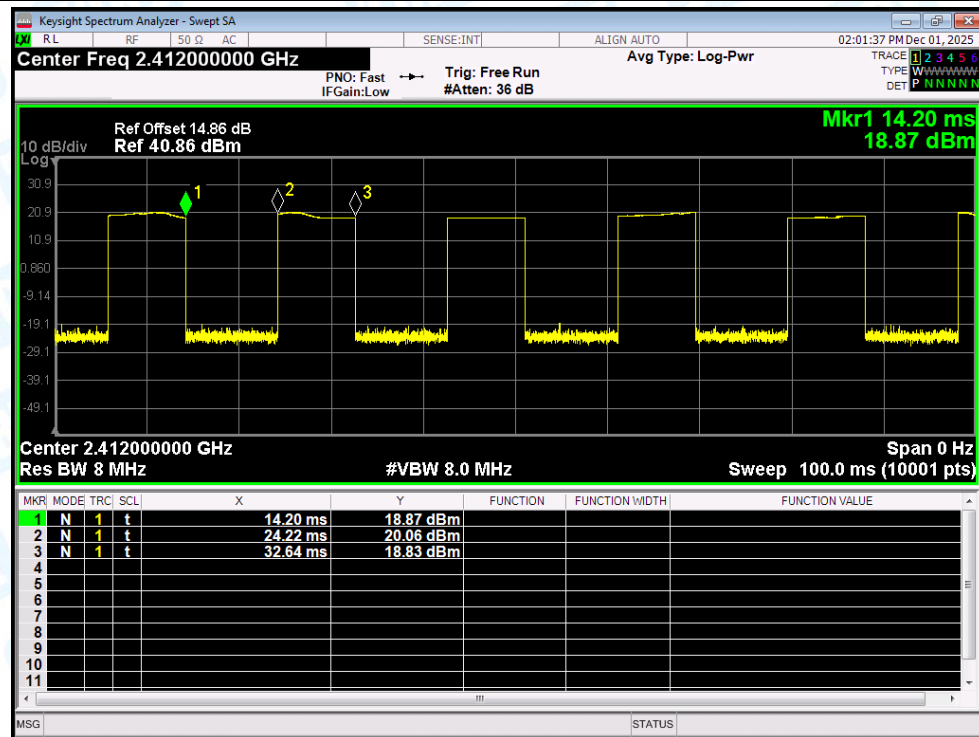
Duty Cycle NVNT ax(VHT40) 2437MHz Ant1



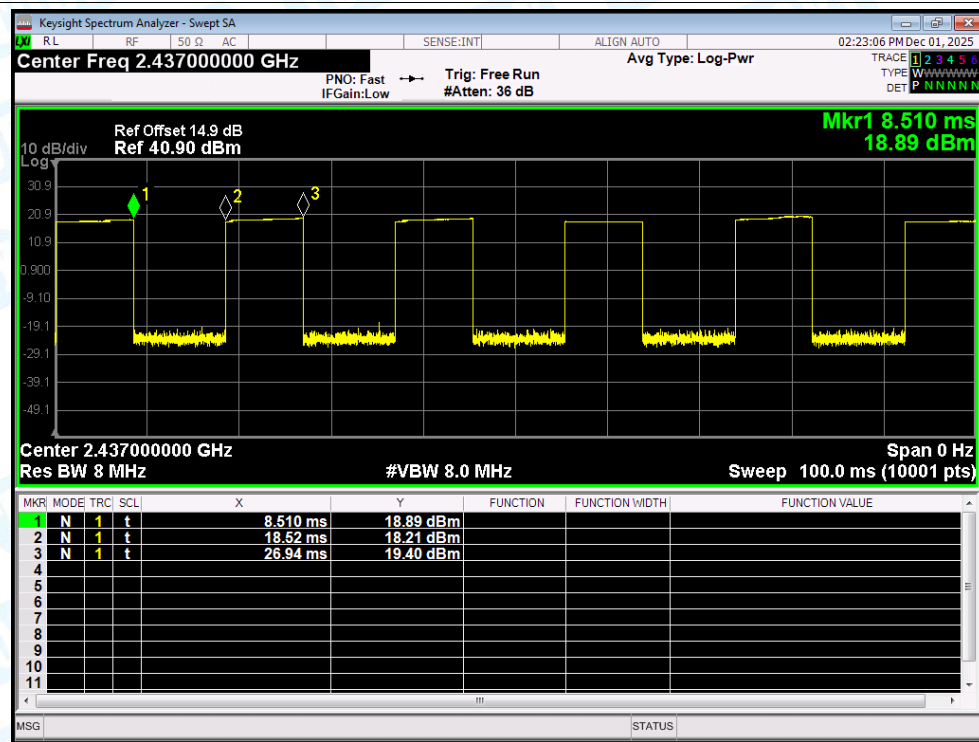
Duty Cycle NVNT ax(VHT40) 2452MHz Ant1



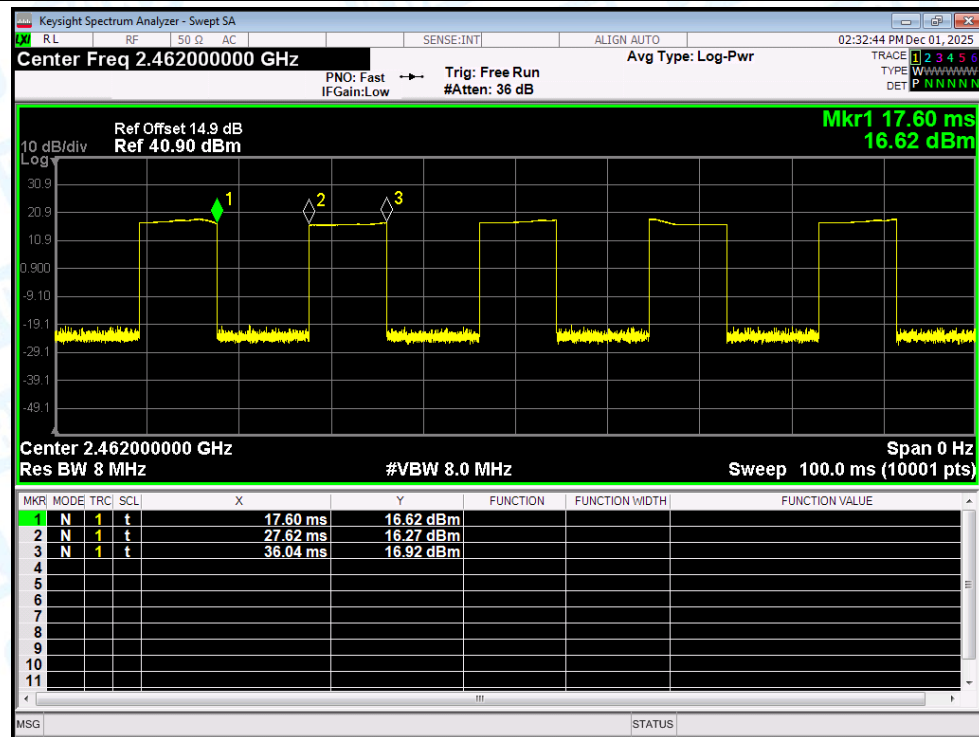
Duty Cycle NVNT b 2412MHz Ant1



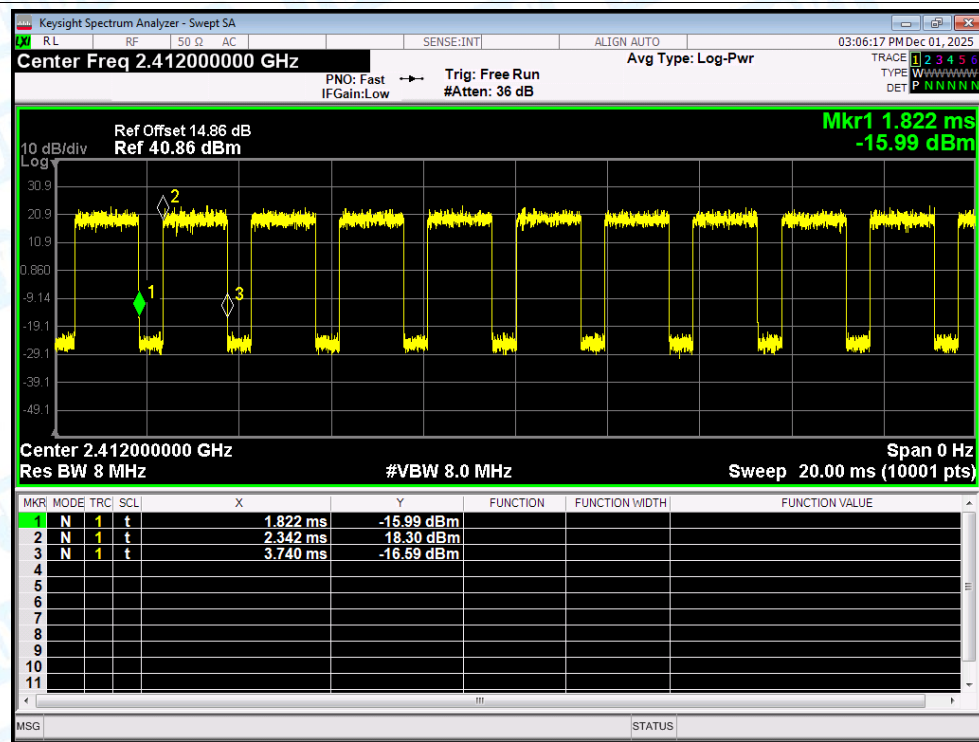
Duty Cycle NVNT b 2437MHz Ant1



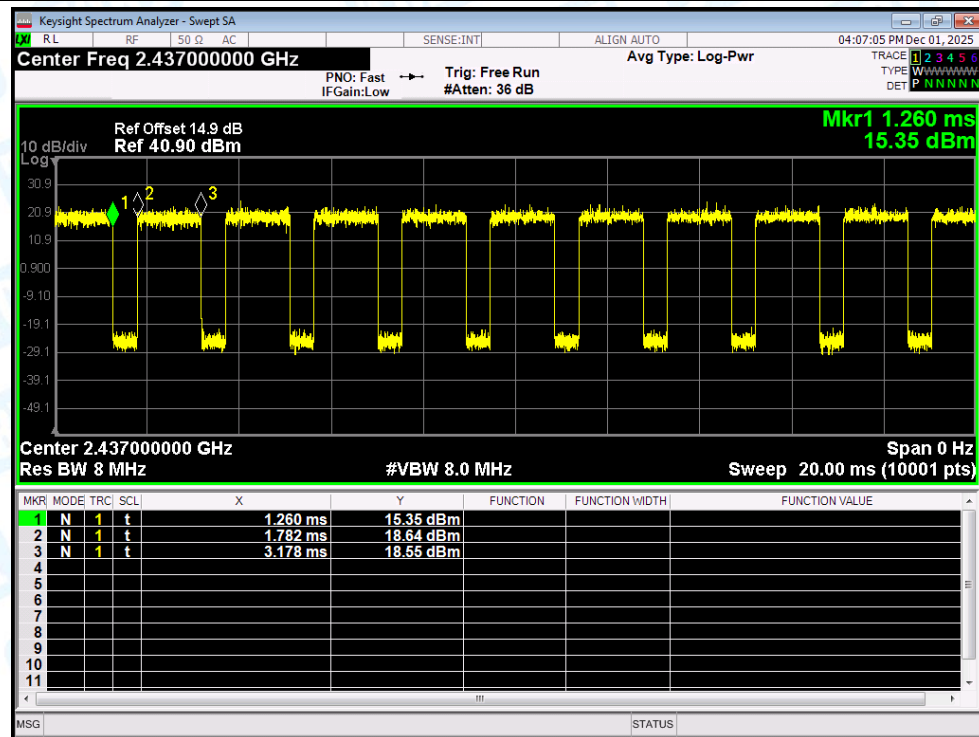
Duty Cycle NVNT b 2462MHz Ant1



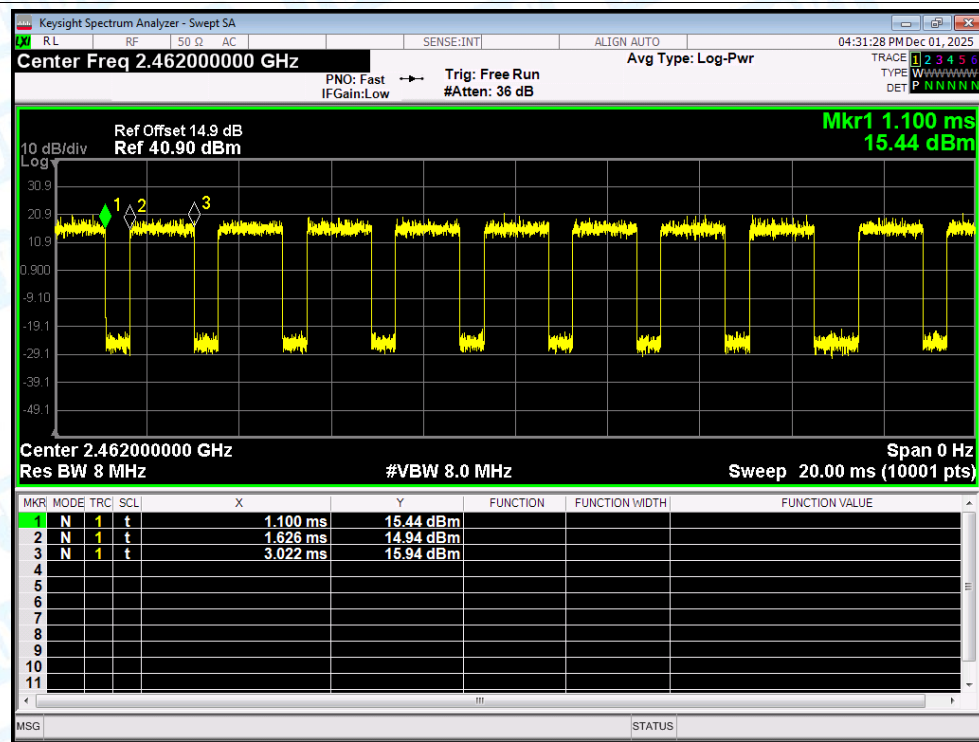
Duty Cycle NVNT g 2412MHz Ant1



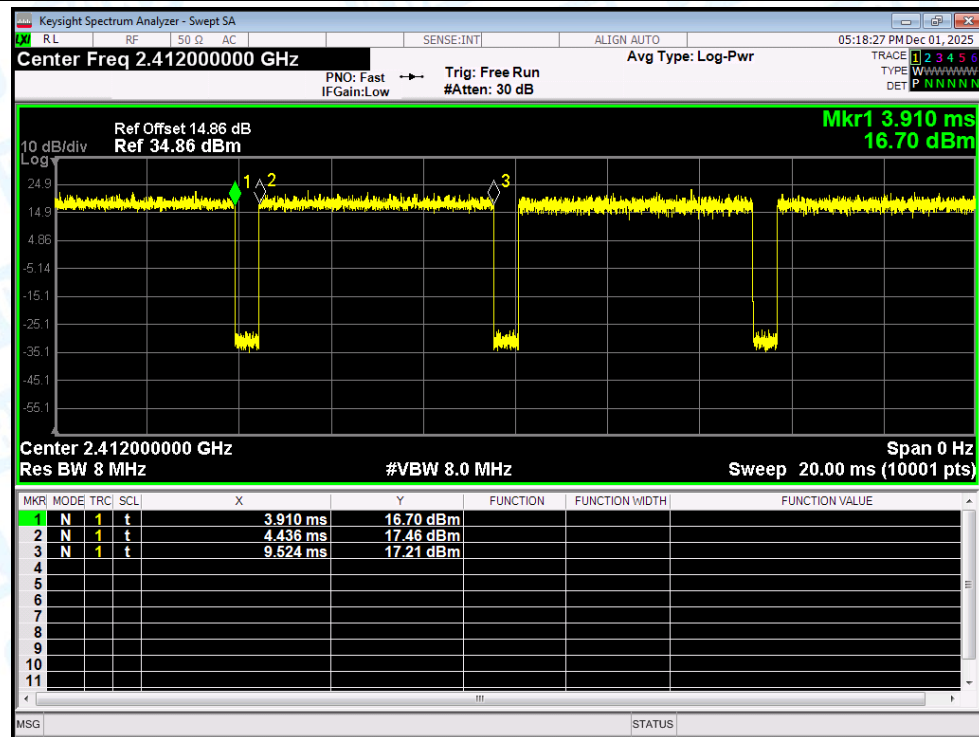
Duty Cycle NVNT g 2437MHz Ant1



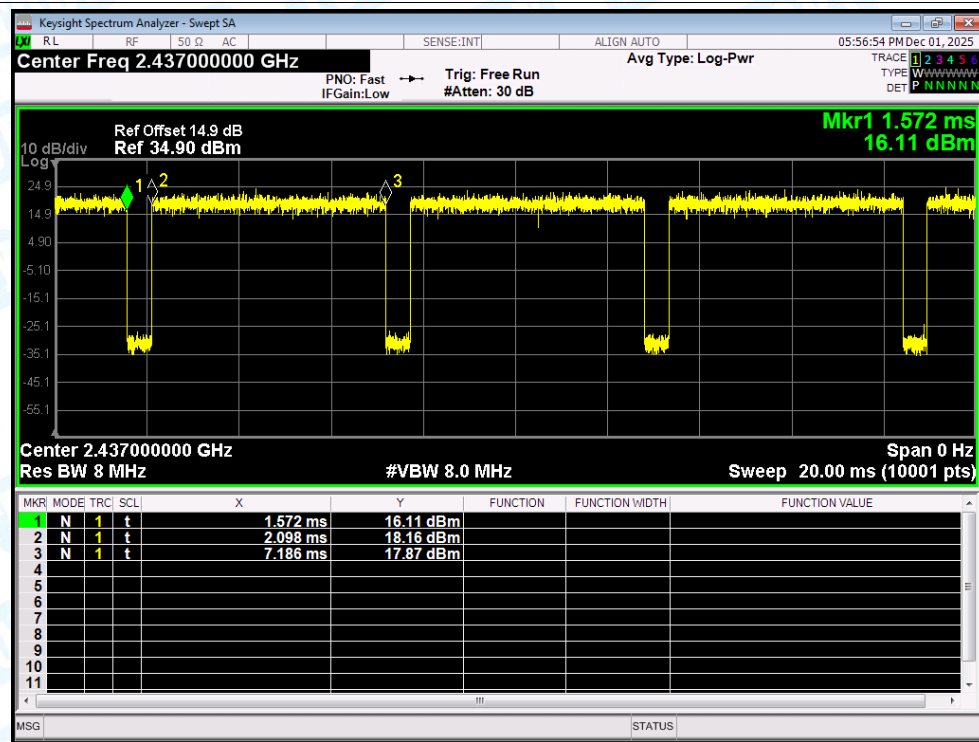
Duty Cycle NVNT g 2462MHz Ant1



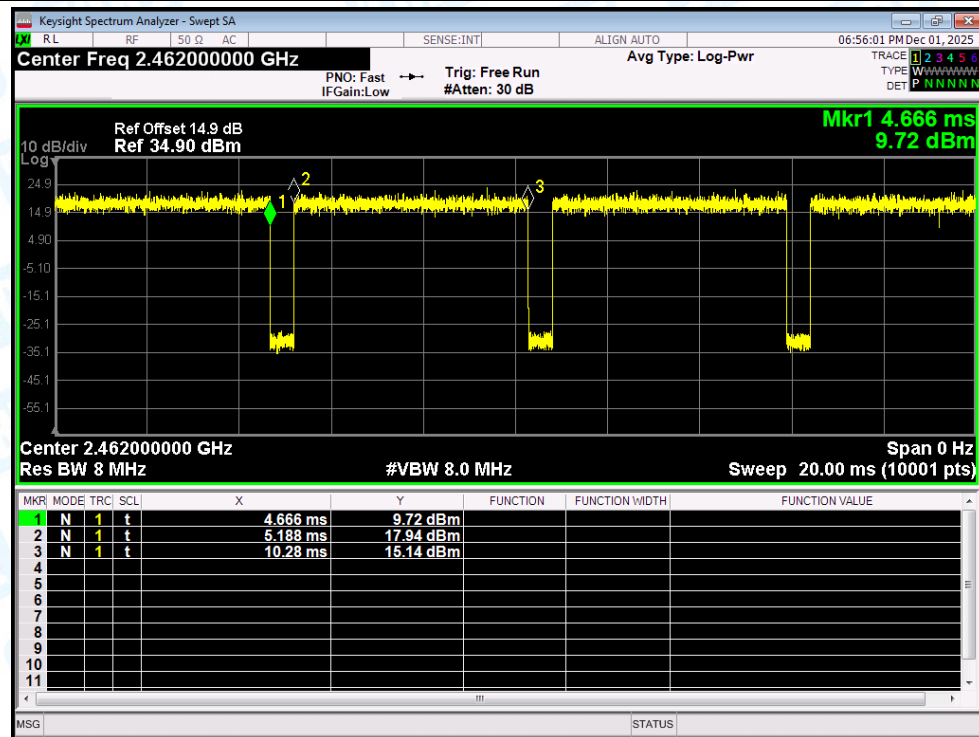
Duty Cycle NVNT n(HT20) 2412MHz Ant1



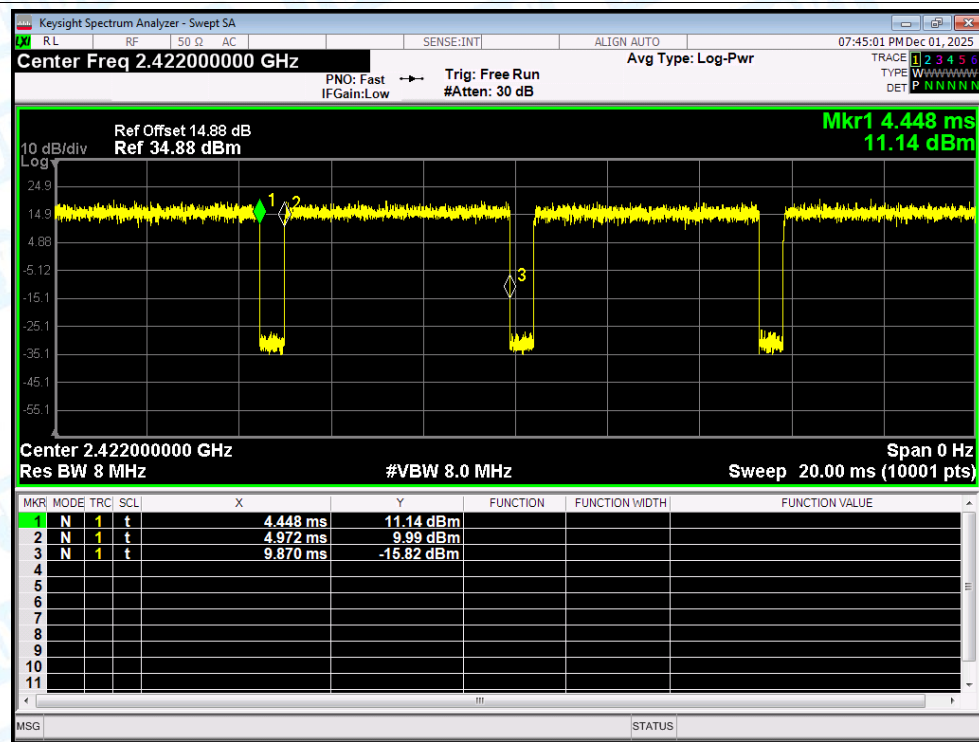
Duty Cycle NVNT n(HT20) 2437MHz Ant1



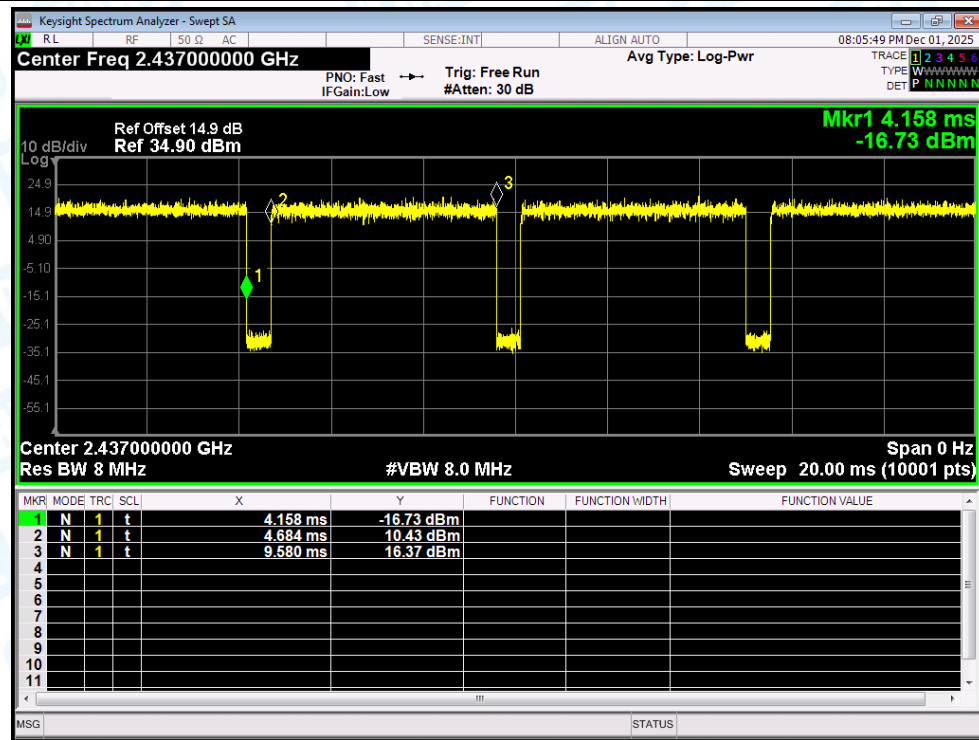
Duty Cycle NVNT n(HT20) 2462MHz Ant1



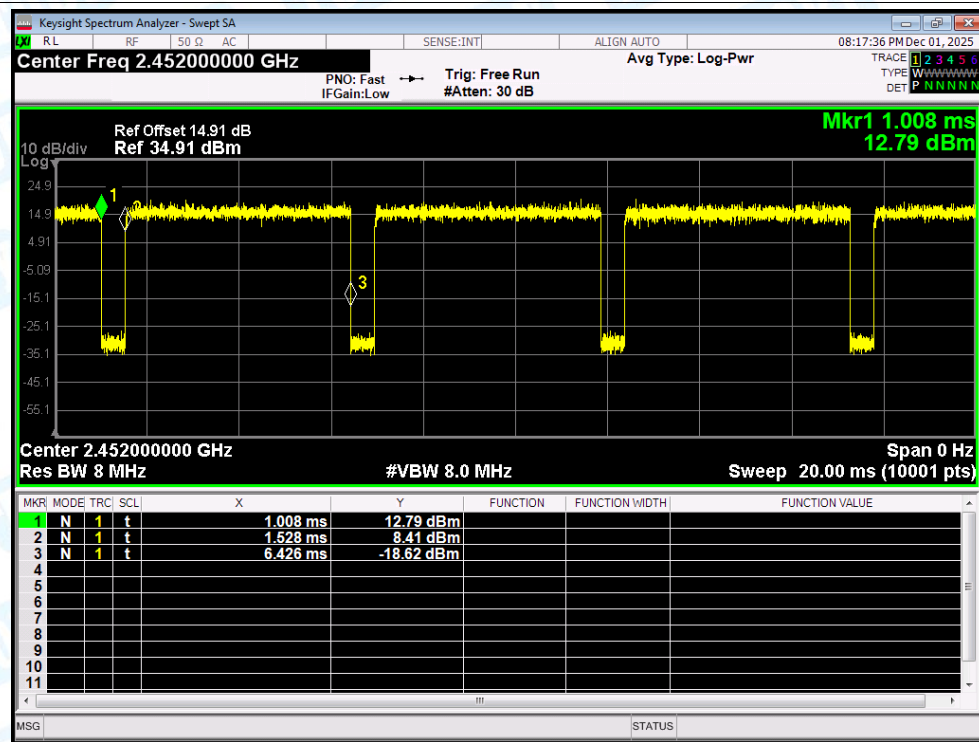
Duty Cycle NVNT n(HT40) 2422MHz Ant1



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	15.41	30	Pass
NVNT	ax(VHT20)	2437	Ant1	16.18	30	Pass
NVNT	ax(VHT20)	2462	Ant1	15.42	30	Pass
NVNT	ax(VHT40)	2422	Ant1	15.64	30	Pass
NVNT	ax(VHT40)	2437	Ant1	16.14	30	Pass
NVNT	ax(VHT40)	2452	Ant1	15.42	30	Pass
NVNT	b	2412	Ant1	15.52	30	Pass
NVNT	b	2437	Ant1	16.26	30	Pass
NVNT	b	2462	Ant1	16.16	30	Pass
NVNT	g	2412	Ant1	15.58	30	Pass
NVNT	g	2437	Ant1	16.09	30	Pass
NVNT	g	2462	Ant1	15.45	30	Pass
NVNT	n(HT20)	2412	Ant1	15.91	30	Pass
NVNT	n(HT20)	2437	Ant1	15.69	30	Pass
NVNT	n(HT20)	2462	Ant1	15.4	30	Pass
NVNT	n(HT40)	2422	Ant1	15.53	30	Pass
NVNT	n(HT40)	2437	Ant1	16.06	30	Pass
NVNT	n(HT40)	2452	Ant1	15.66	30	Pass

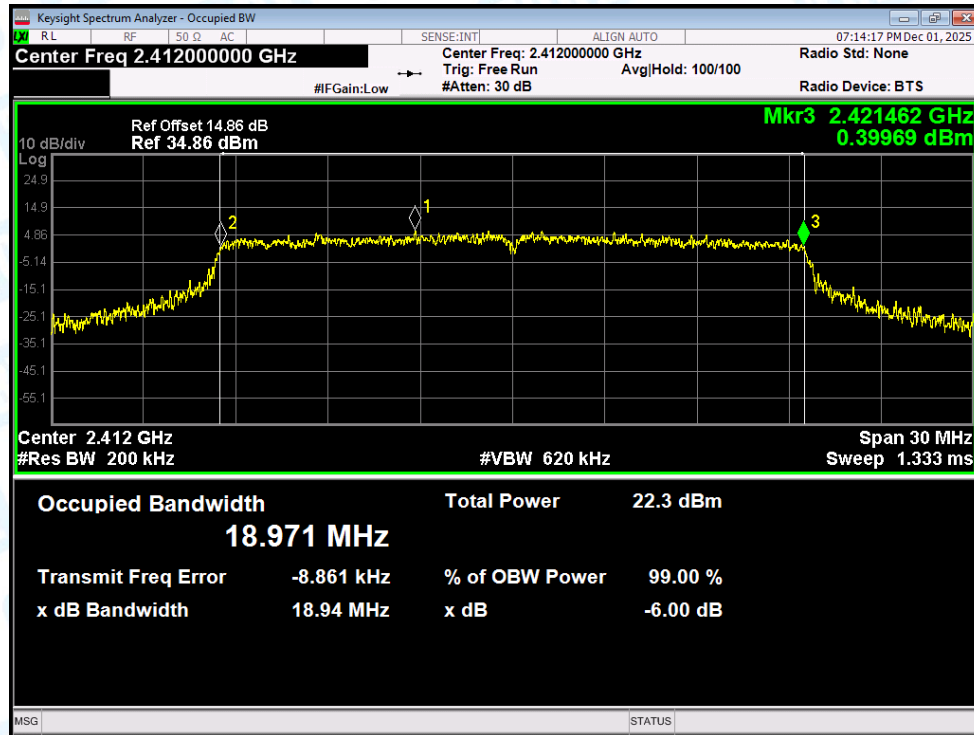
Note: The duty factor has been compensated into the result.

3.-6dB Bandwidth

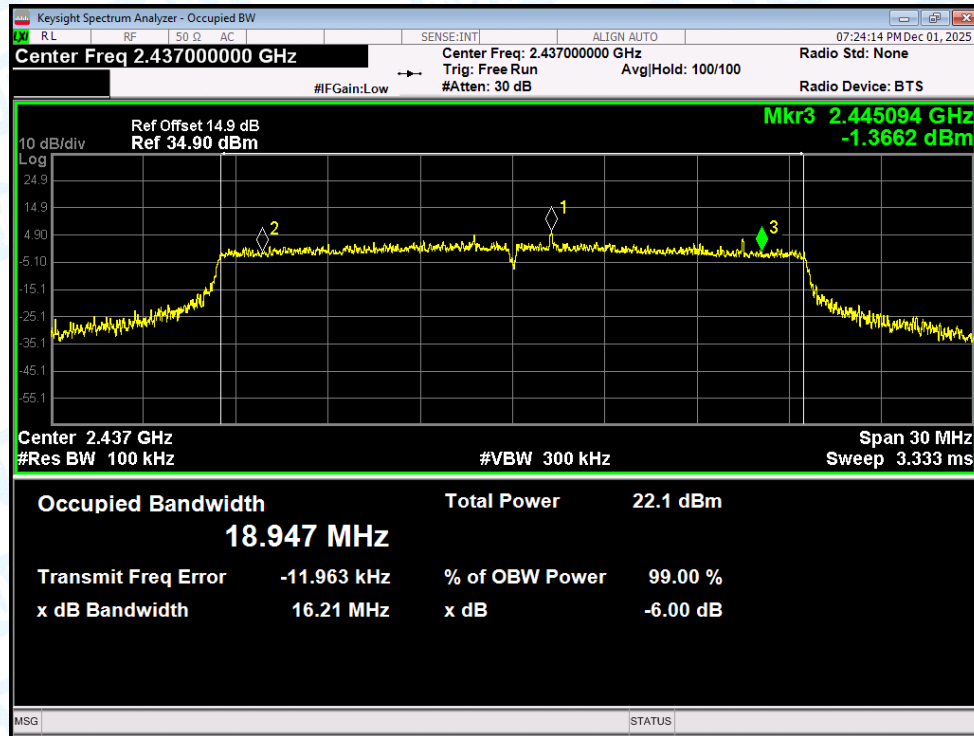
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	ax(VHT20)	2412	Ant1	18.94	0.5	Pass
NVNT	ax(VHT20)	2437	Ant1	16.21	0.5	Pass
NVNT	ax(VHT20)	2462	Ant1	18.99	0.5	Pass
NVNT	ax(VHT40)	2422	Ant1	37.94	0.5	Pass
NVNT	ax(VHT40)	2437	Ant1	37.46	0.5	Pass
NVNT	ax(VHT40)	2452	Ant1	37.49	0.5	Pass
NVNT	b	2412	Ant1	9.12	0.5	Pass
NVNT	b	2437	Ant1	9.08	0.5	Pass
NVNT	b	2462	Ant1	9.1	0.5	Pass
NVNT	g	2412	Ant1	16.27	0.5	Pass
NVNT	g	2437	Ant1	16.29	0.5	Pass
NVNT	g	2462	Ant1	16.27	0.5	Pass
NVNT	n(HT20)	2412	Ant1	17.46	0.5	Pass
NVNT	n(HT20)	2437	Ant1	17.57	0.5	Pass
NVNT	n(HT20)	2462	Ant1	17.41	0.5	Pass
NVNT	n(HT40)	2422	Ant1	36.35	0.5	Pass
NVNT	n(HT40)	2437	Ant1	36.29	0.5	Pass
NVNT	n(HT40)	2452	Ant1	36.23	0.5	Pass

Test Graphs

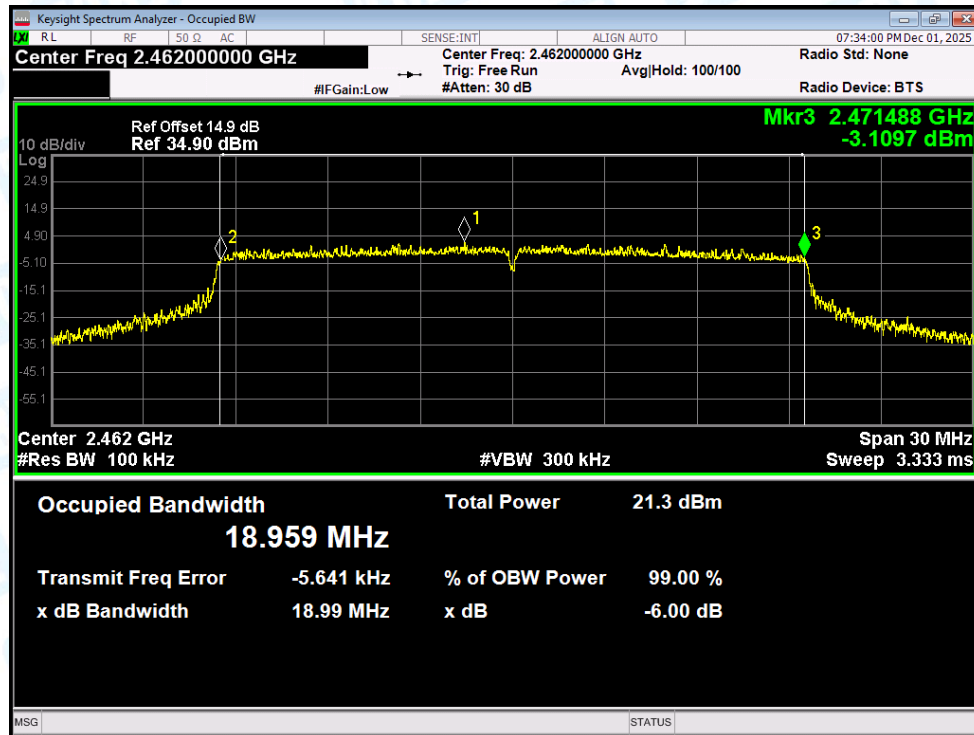
-6dB Bandwidth NVNT ax(VHT20) 2412MHz Ant1



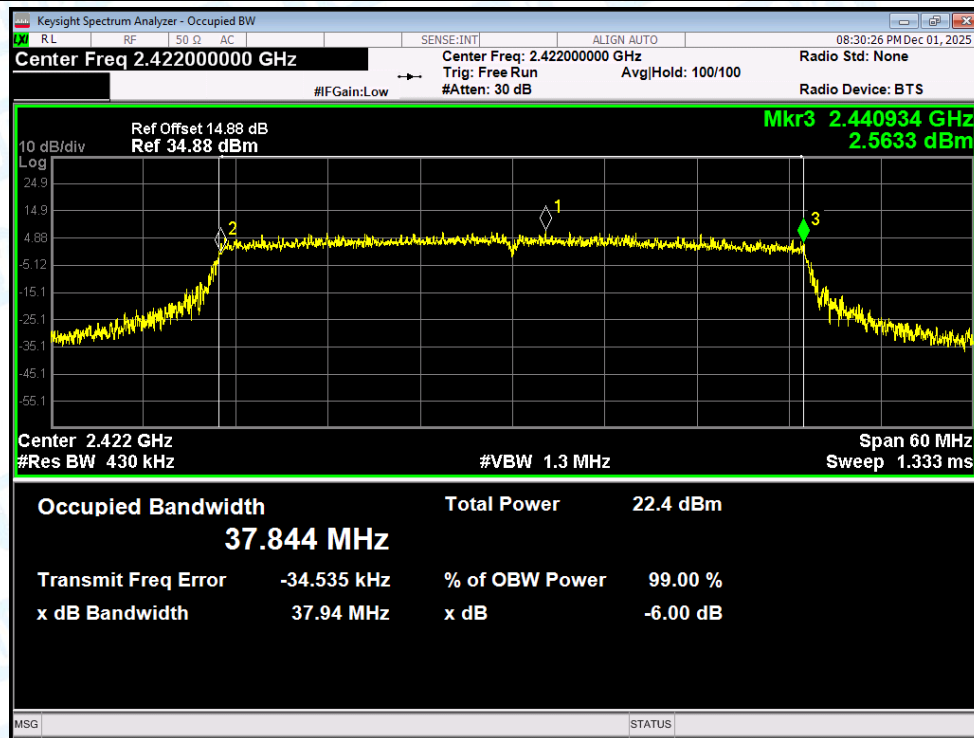
-6dB Bandwidth NVNT ax(VHT20) 2437MHz Ant1



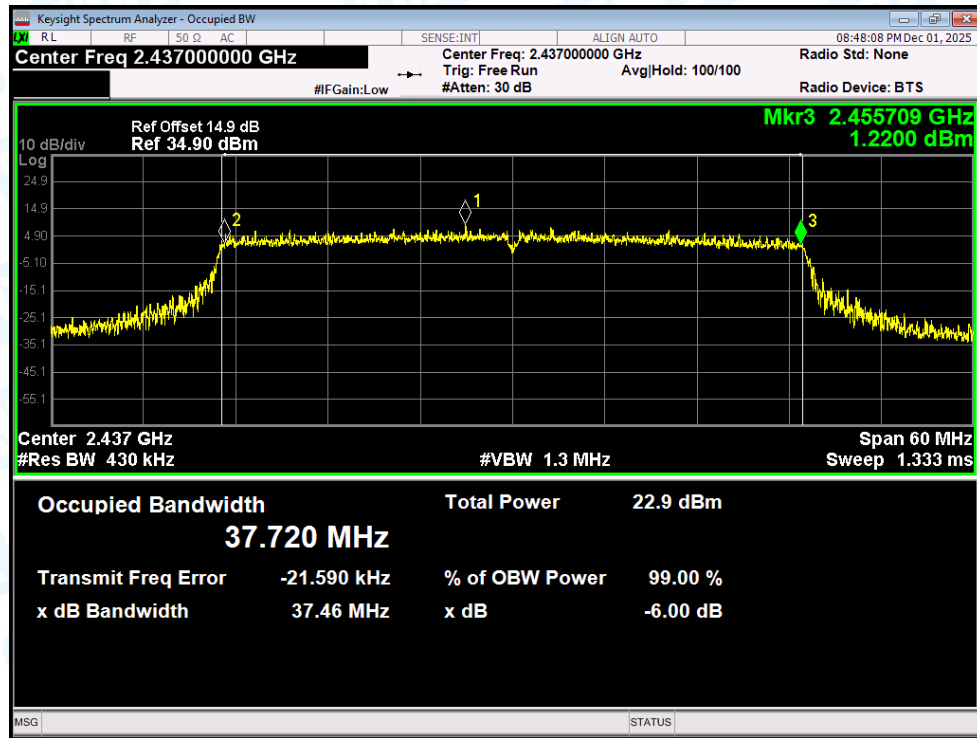
-6dB Bandwidth NVNT ax(VHT20) 2462MHz Ant1



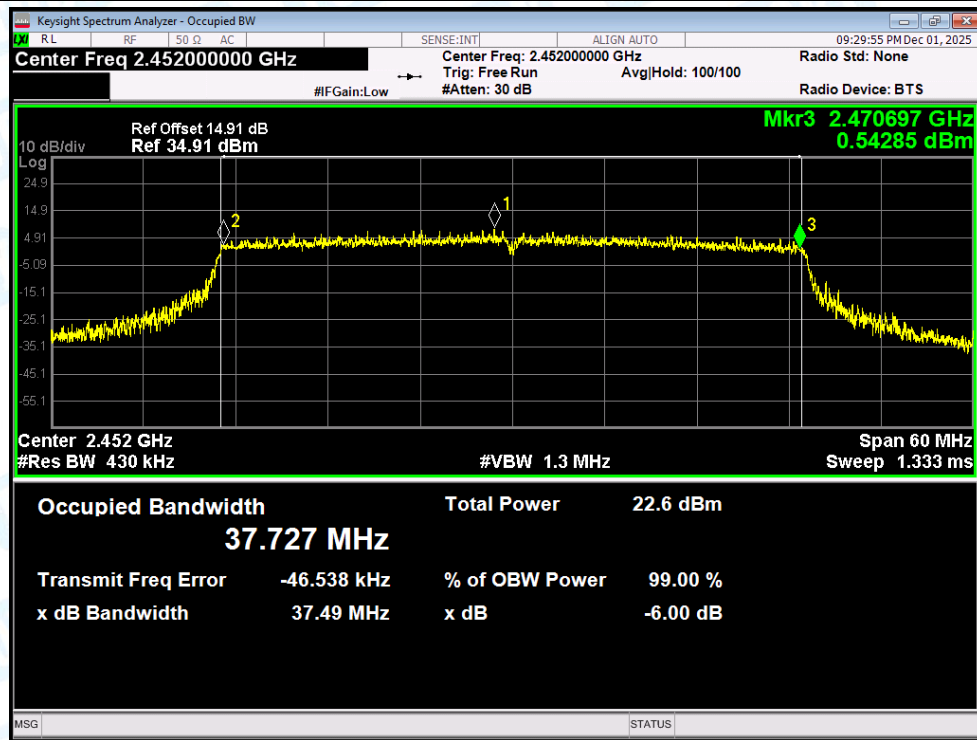
-6dB Bandwidth NVNT ax(VHT40) 2422MHz Ant1



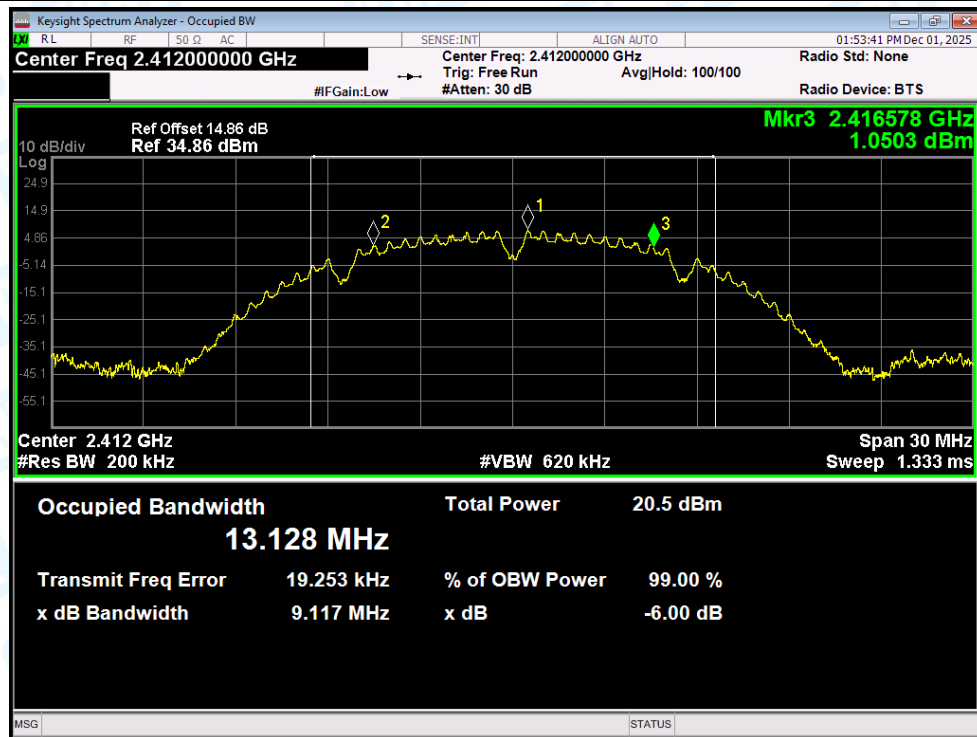
-6dB Bandwidth NVNT ax(VHT40) 2437MHz Ant1



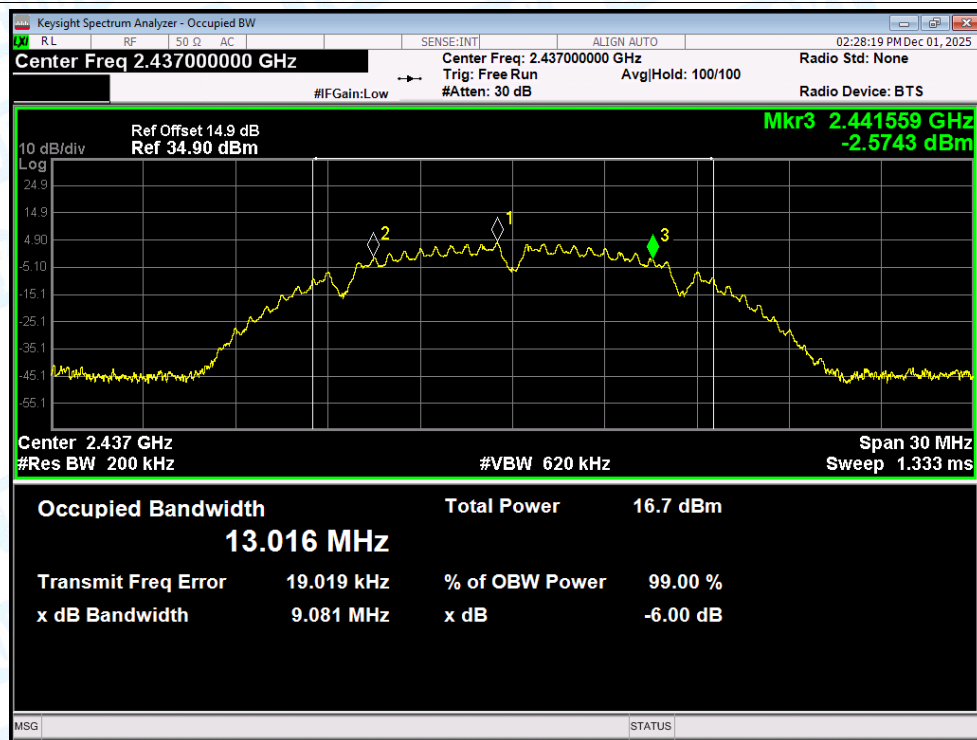
-6dB Bandwidth NVNT ax(VHT40) 2452MHz Ant1



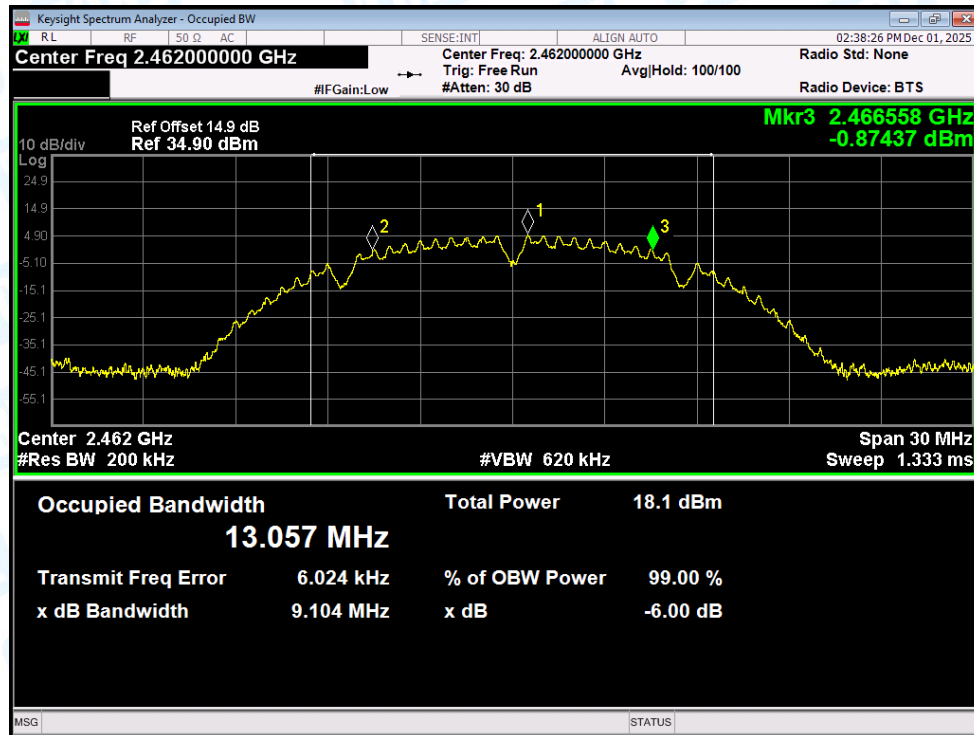
-6dB Bandwidth NVNT b 2412MHz Ant1



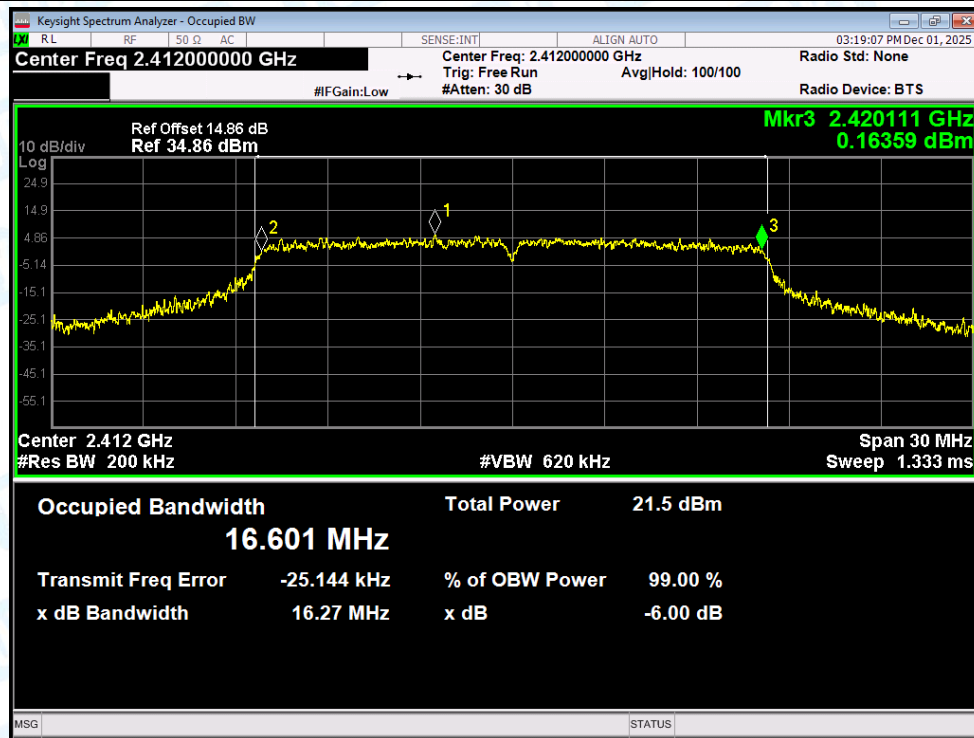
-6dB Bandwidth NVNT b 2437MHz Ant1



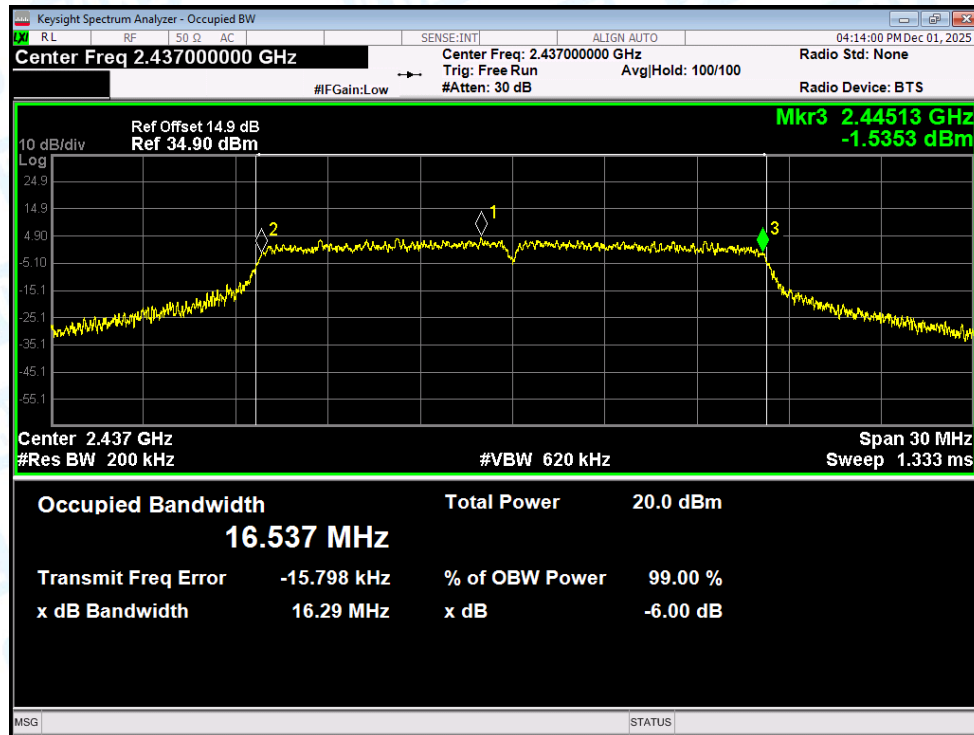
-6dB Bandwidth NVNT b 2462MHz Ant1



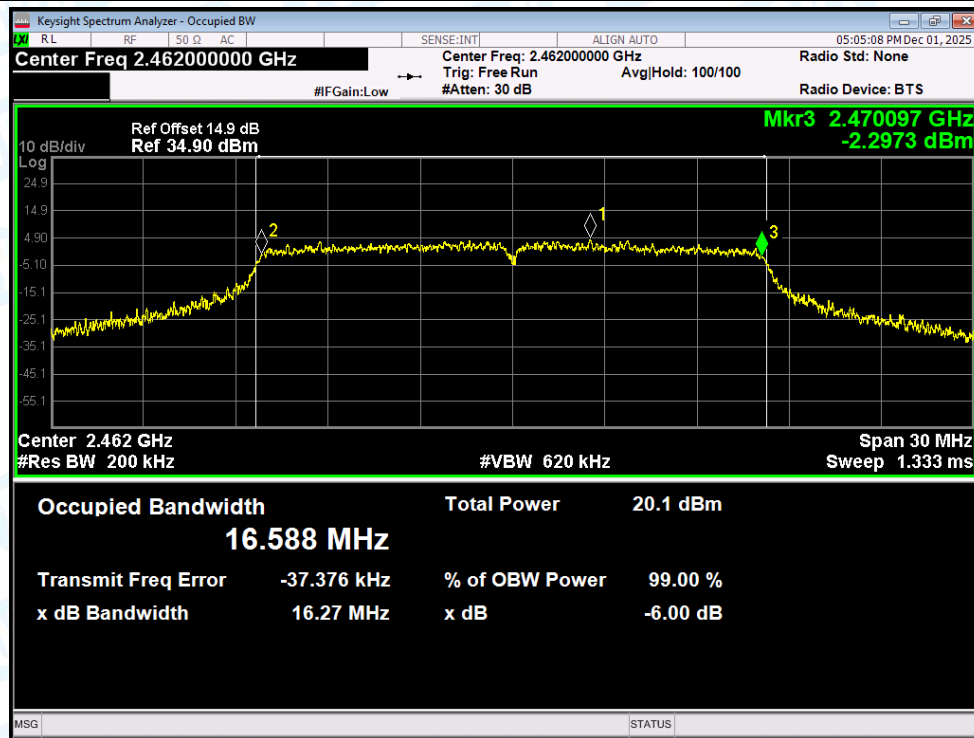
-6dB Bandwidth NVNT g 2412MHz Ant1



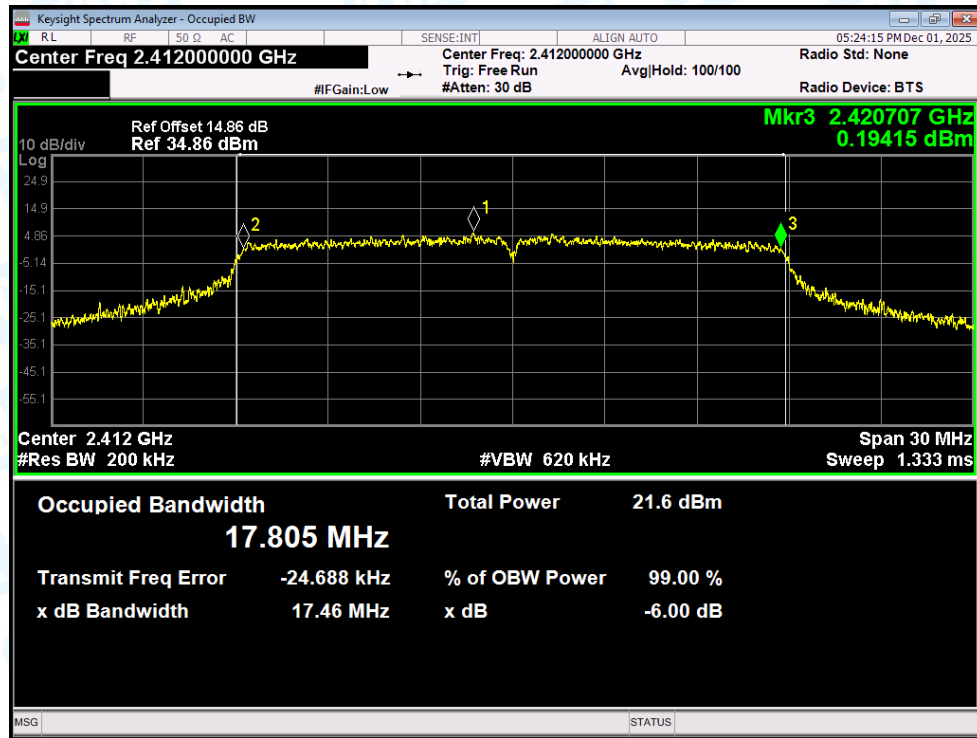
-6dB Bandwidth NVNT g 2437MHz Ant1



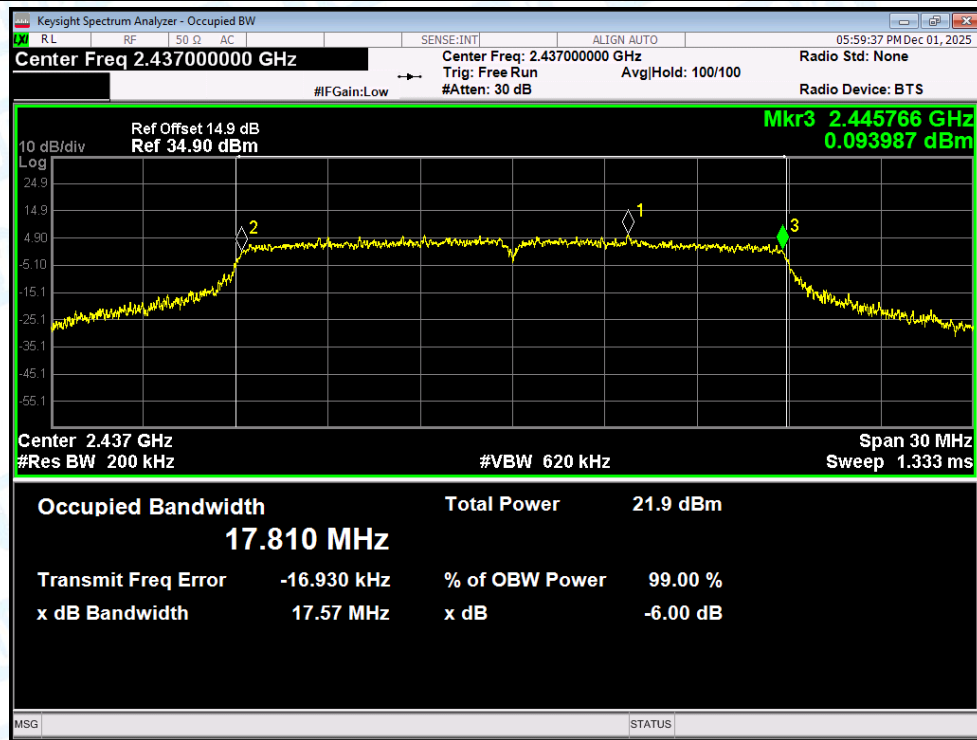
-6dB Bandwidth NVNT g 2462MHz Ant1



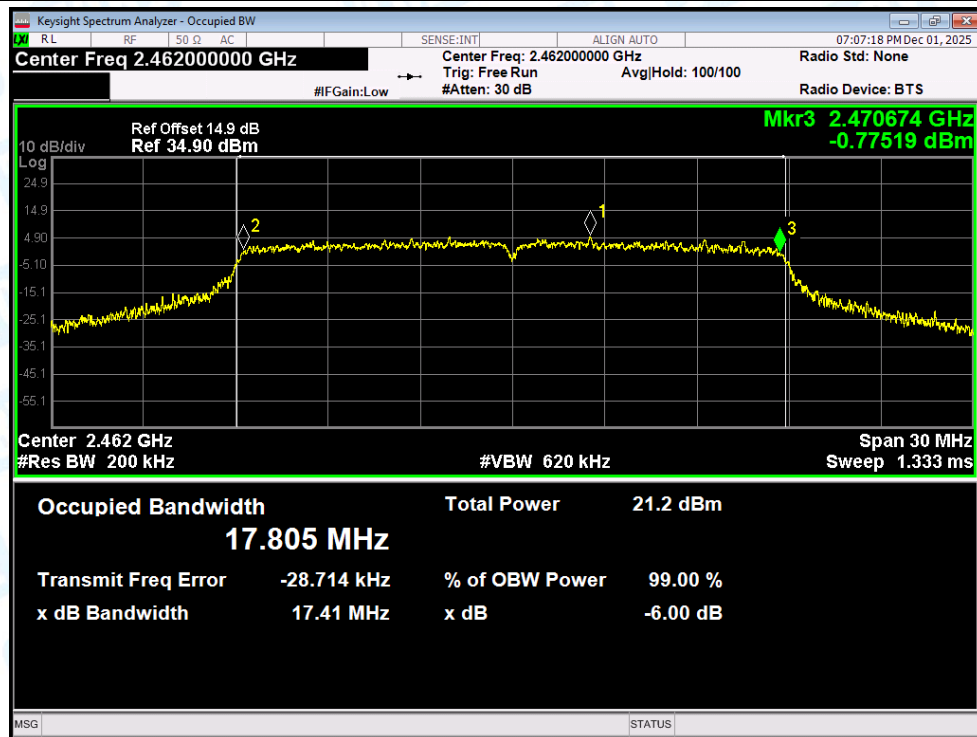
-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



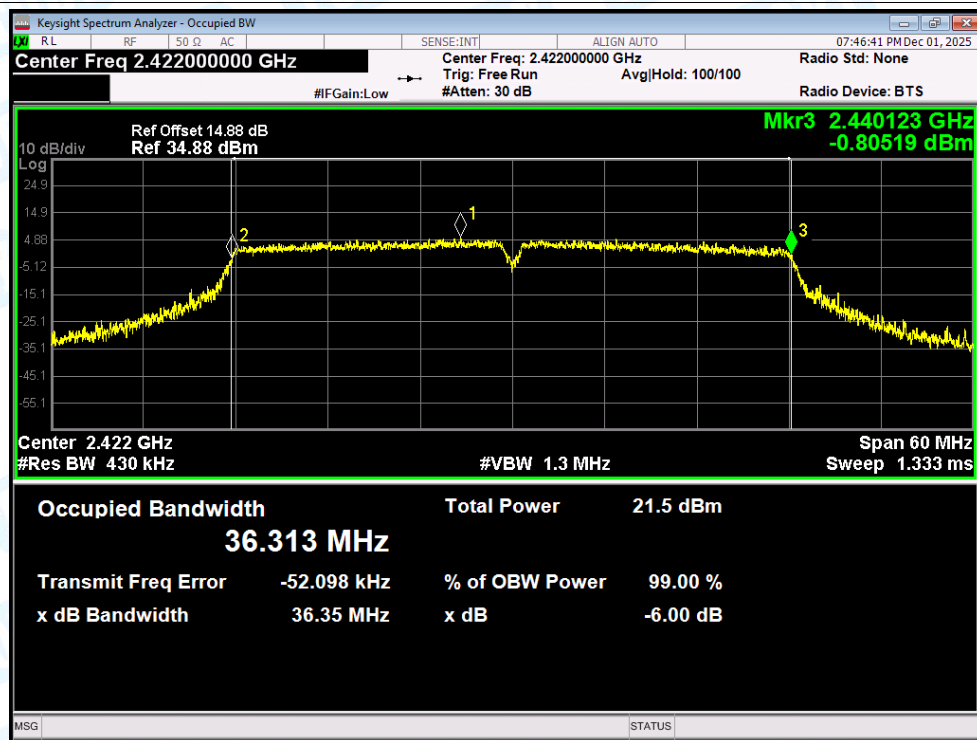
-6dB Bandwidth NVNT n(HT20) 2437MHz Ant1



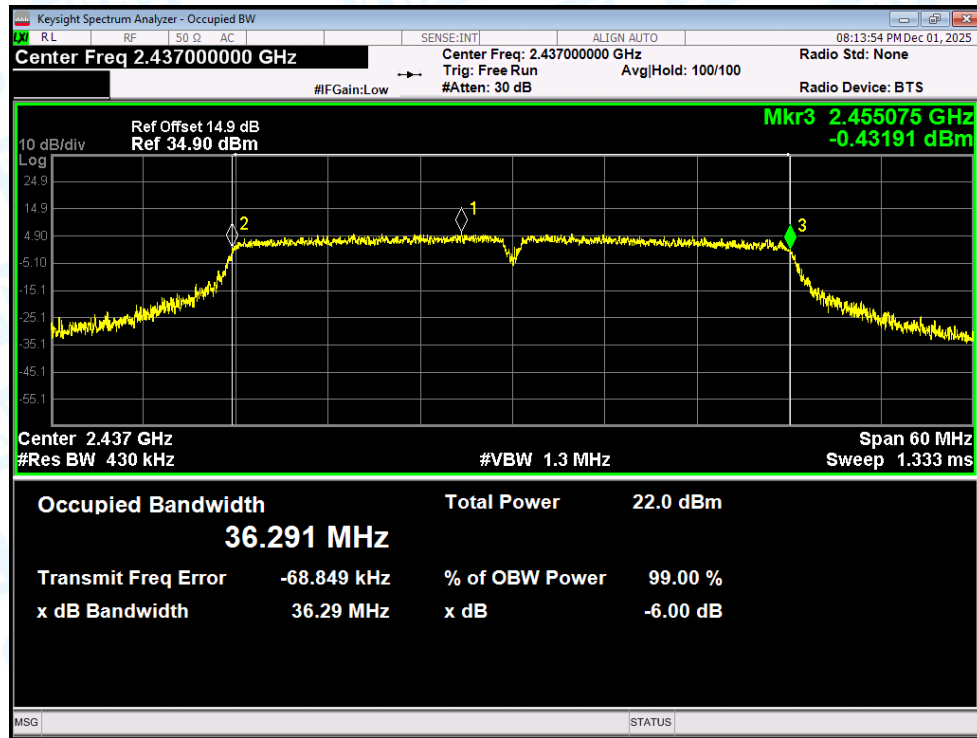
-6dB Bandwidth NVNT n(HT20) 2462MHz Ant1



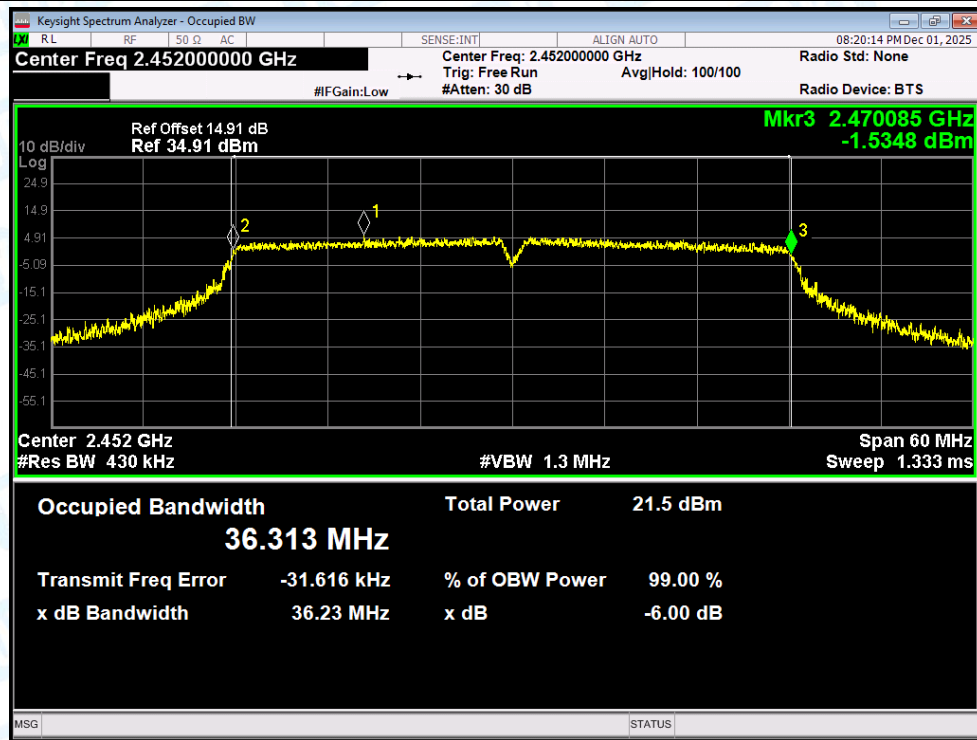
-6dB Bandwidth NVNT n(HT40) 2422MHz Ant1



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



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

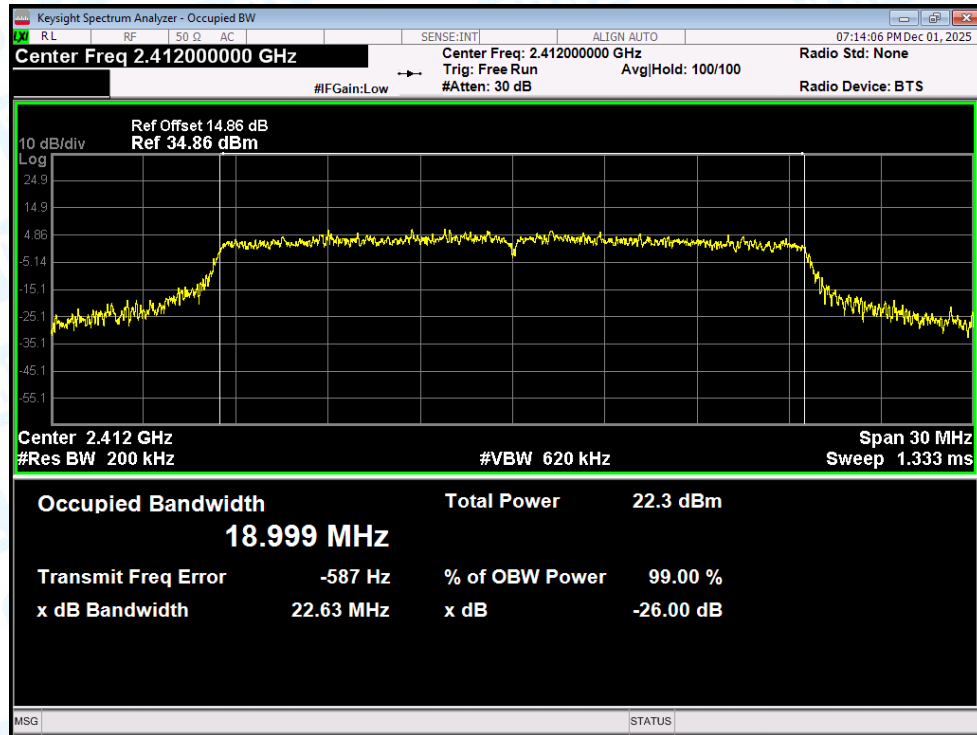


4.Occupied Channel Bandwidth

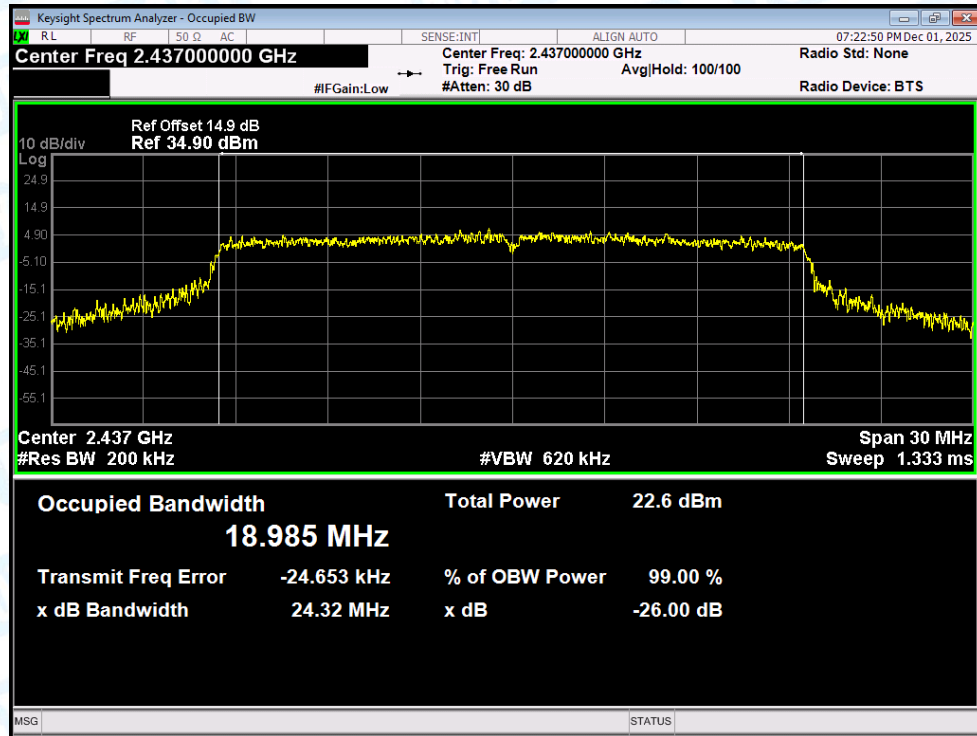
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	ax(VHT20)	2412	Ant1	18.999
NVNT	ax(VHT20)	2437	Ant1	18.985
NVNT	ax(VHT20)	2462	Ant1	18.981
NVNT	ax(VHT40)	2422	Ant1	37.756
NVNT	ax(VHT40)	2437	Ant1	37.756
NVNT	ax(VHT40)	2452	Ant1	37.766
NVNT	b	2412	Ant1	13.097
NVNT	b	2437	Ant1	13.053
NVNT	b	2462	Ant1	13.064
NVNT	g	2412	Ant1	16.593
NVNT	g	2437	Ant1	16.616
NVNT	g	2462	Ant1	16.577
NVNT	n(HT20)	2412	Ant1	17.783
NVNT	n(HT20)	2437	Ant1	17.811
NVNT	n(HT20)	2462	Ant1	17.818
NVNT	n(HT40)	2422	Ant1	36.298
NVNT	n(HT40)	2437	Ant1	36.323
NVNT	n(HT40)	2452	Ant1	36.322

Test Graphs

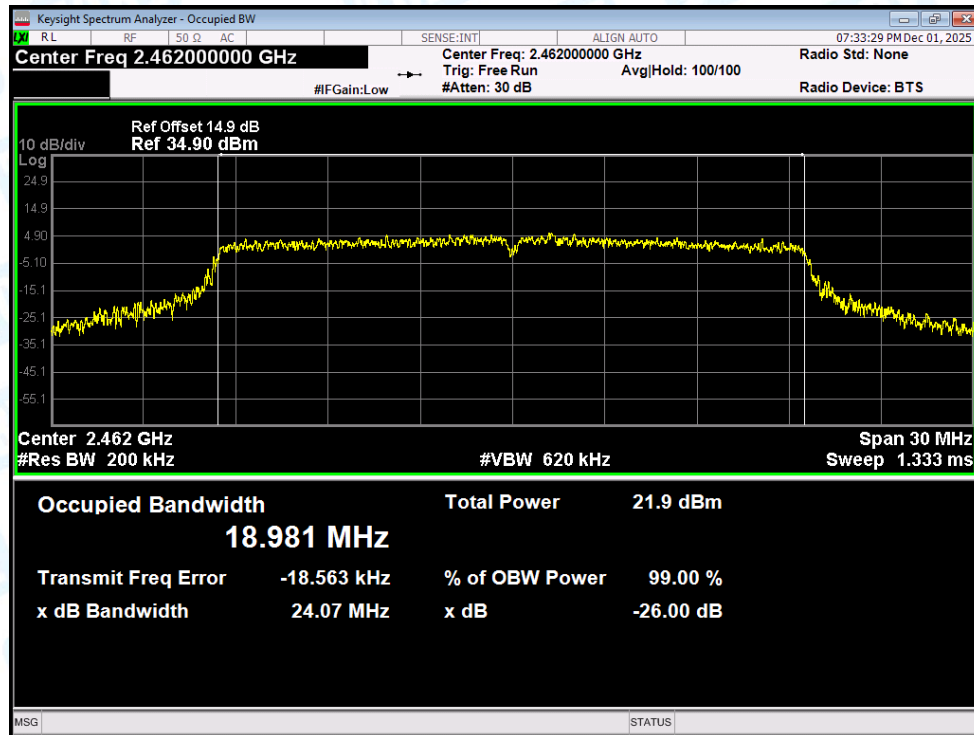
OBW NVNT ax(VHT20) 2412MHz Ant1



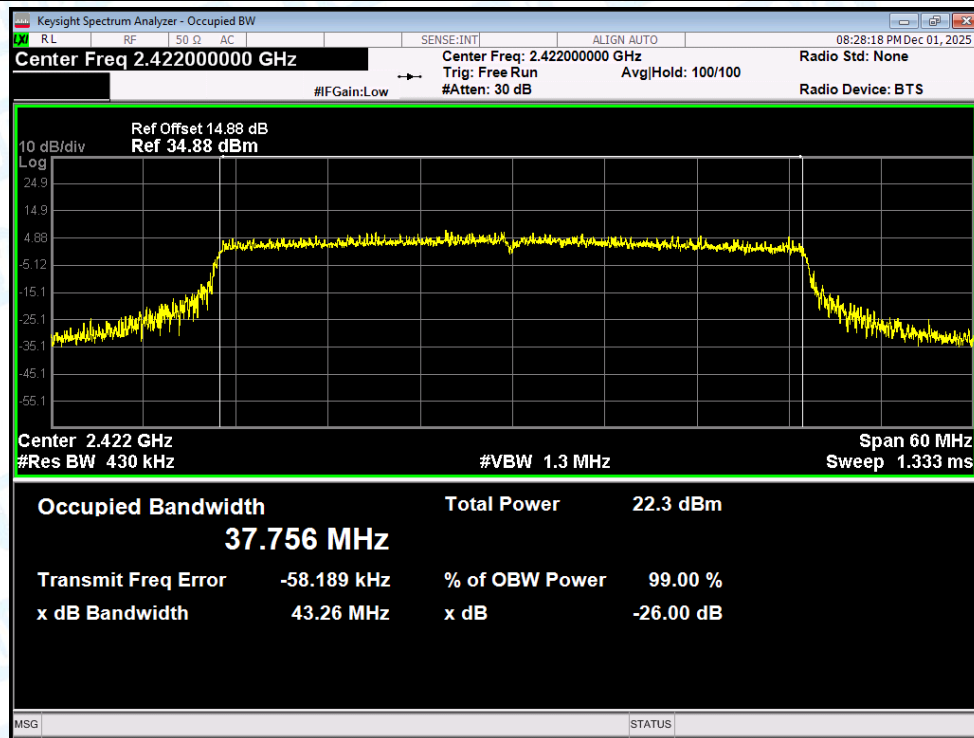
OBW NVNT ax(VHT20) 2437MHz Ant1



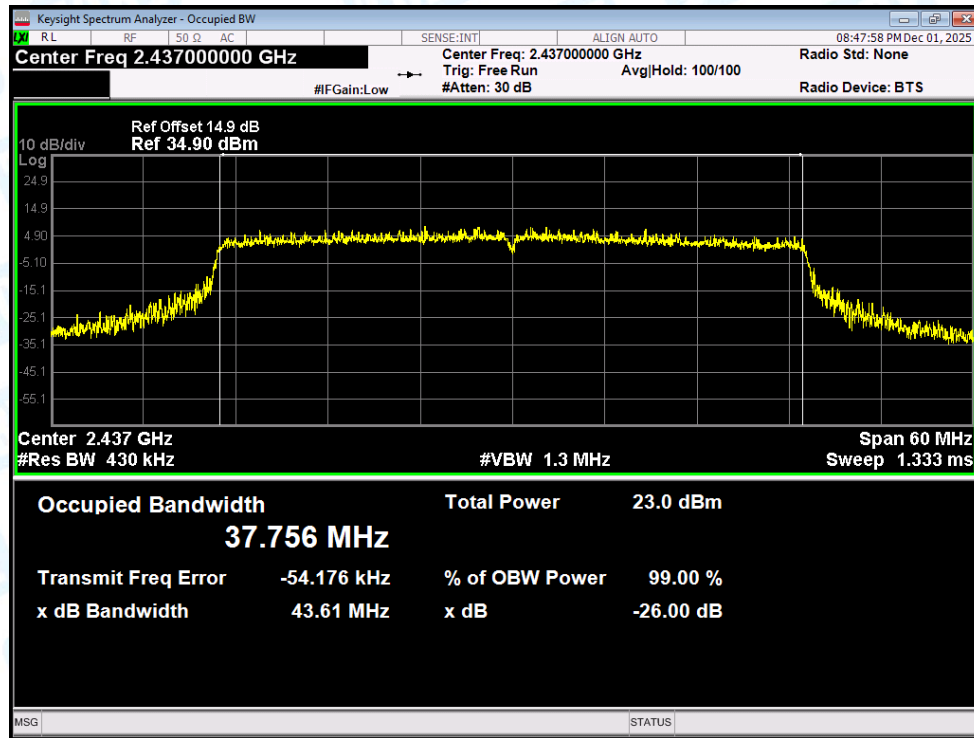
OBW NVNT ax(VHT20) 2462MHz Ant1



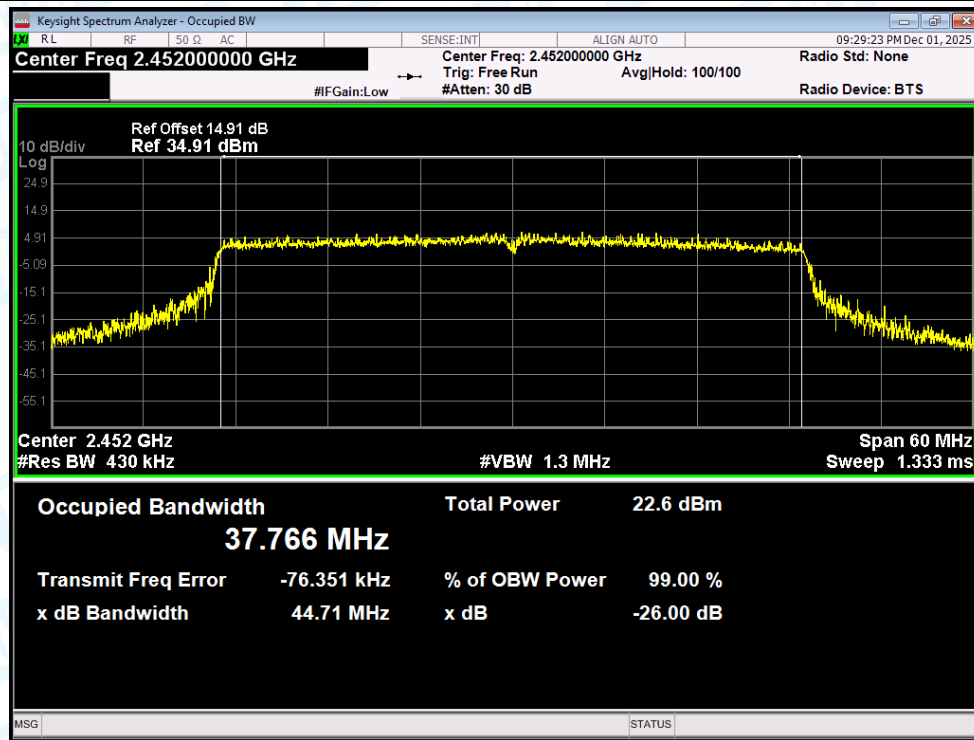
OBW NVNT ax(VHT40) 2422MHz Ant1

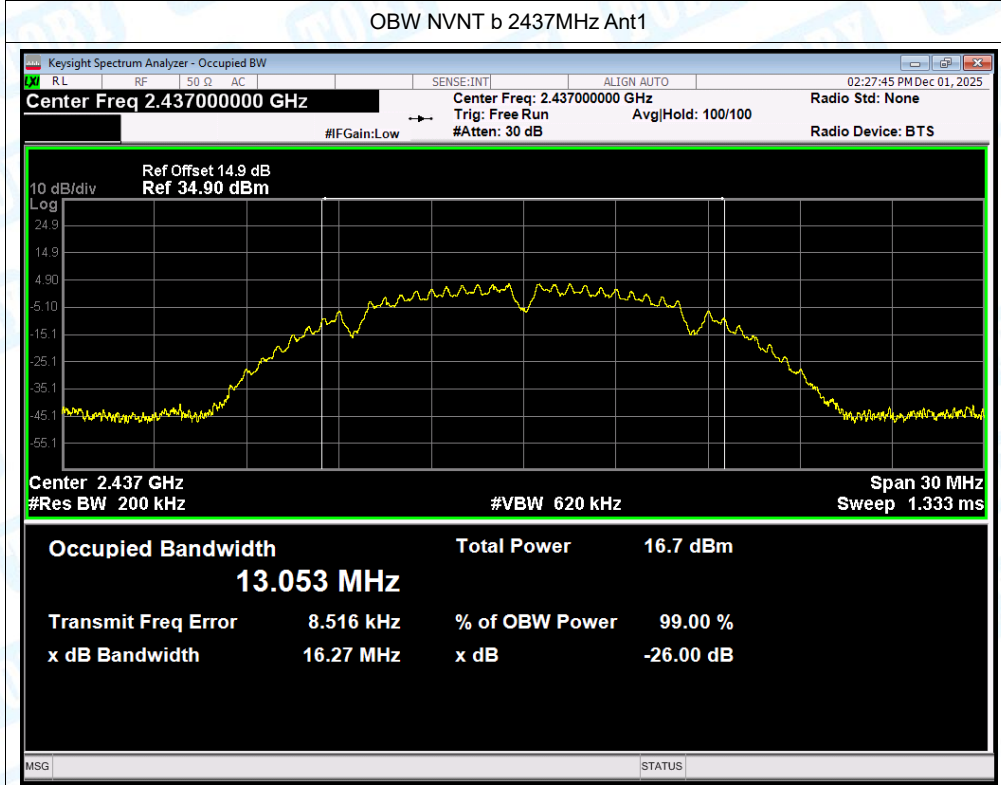
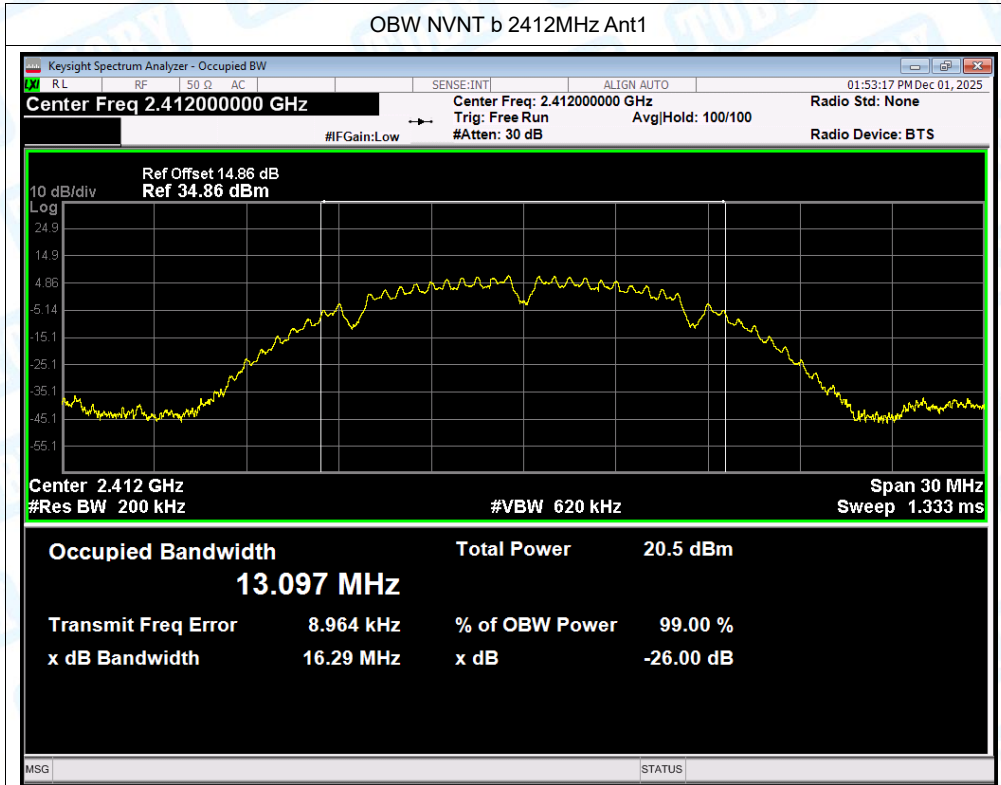


OBW NVNT ax(VHT40) 2437MHz Ant1

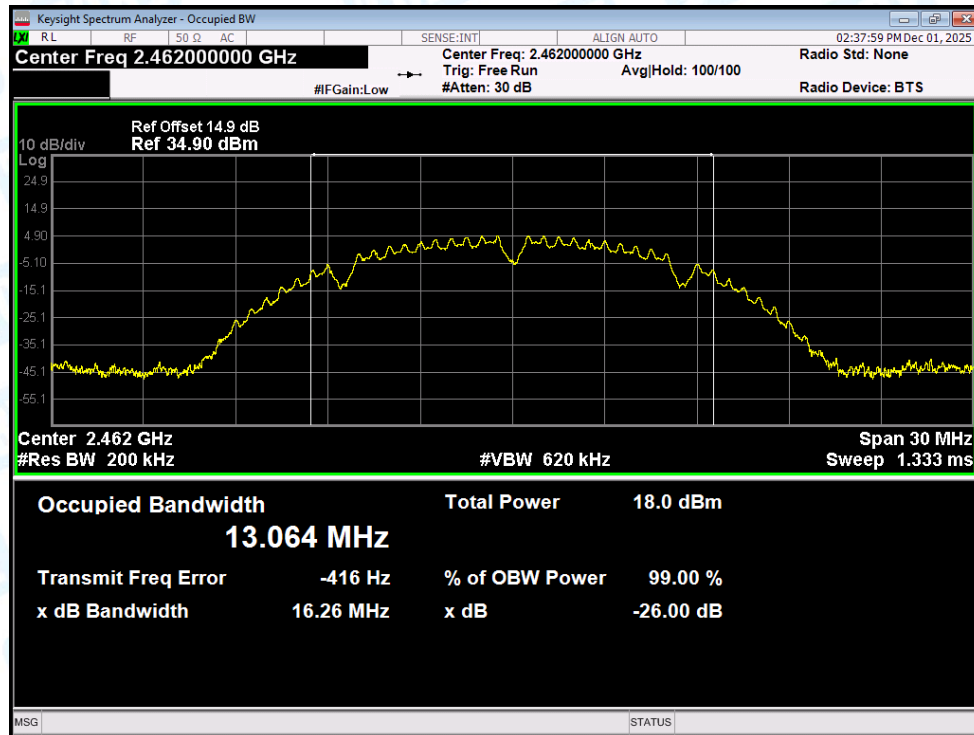


OBW NVNT ax(VHT40) 2452MHz Ant1

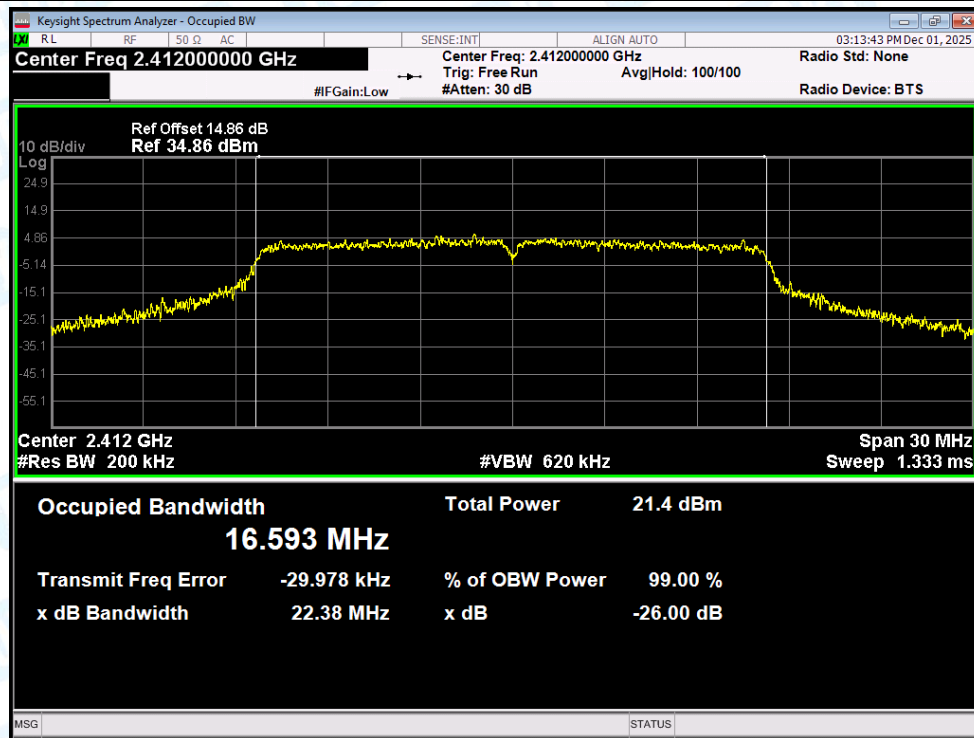




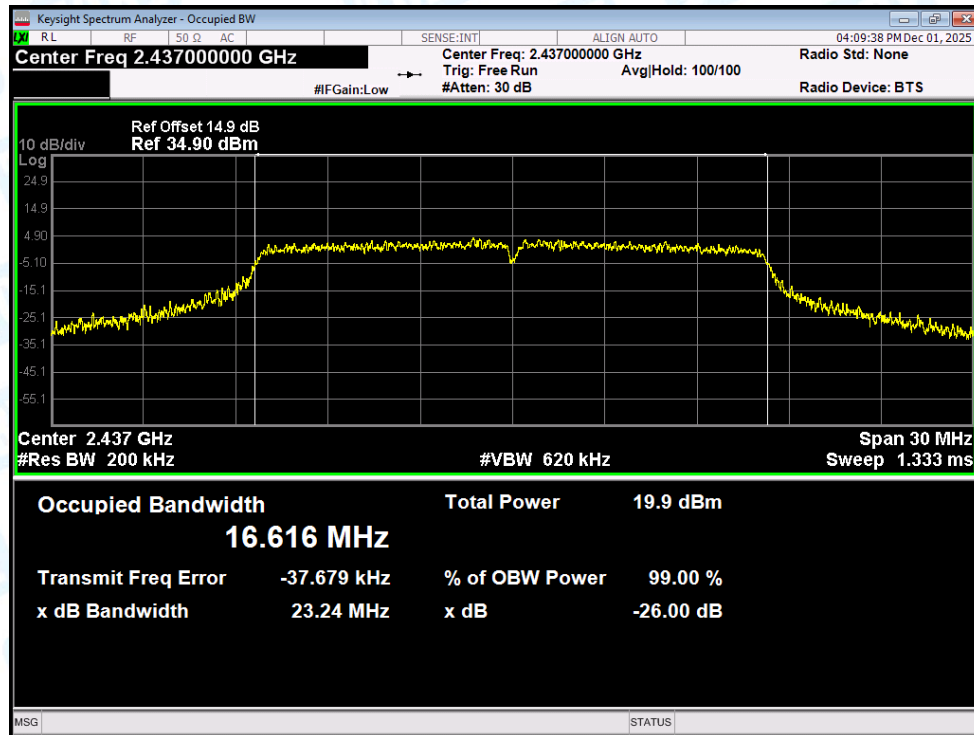
OBW NVNT b 2462MHz Ant1



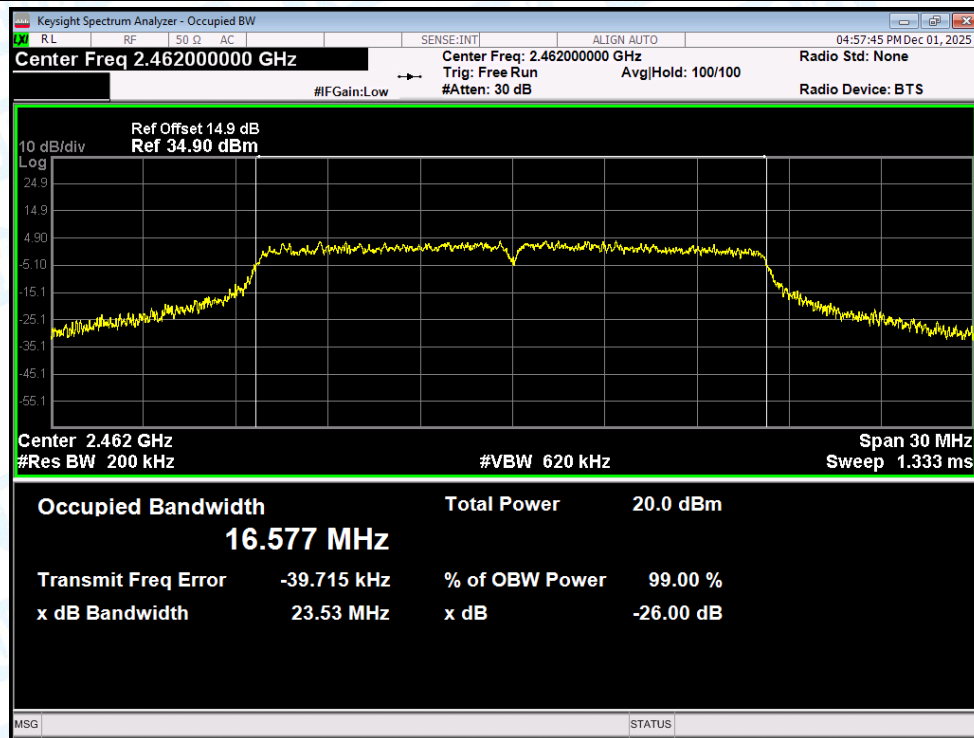
OBW NVNT g 2412MHz Ant1



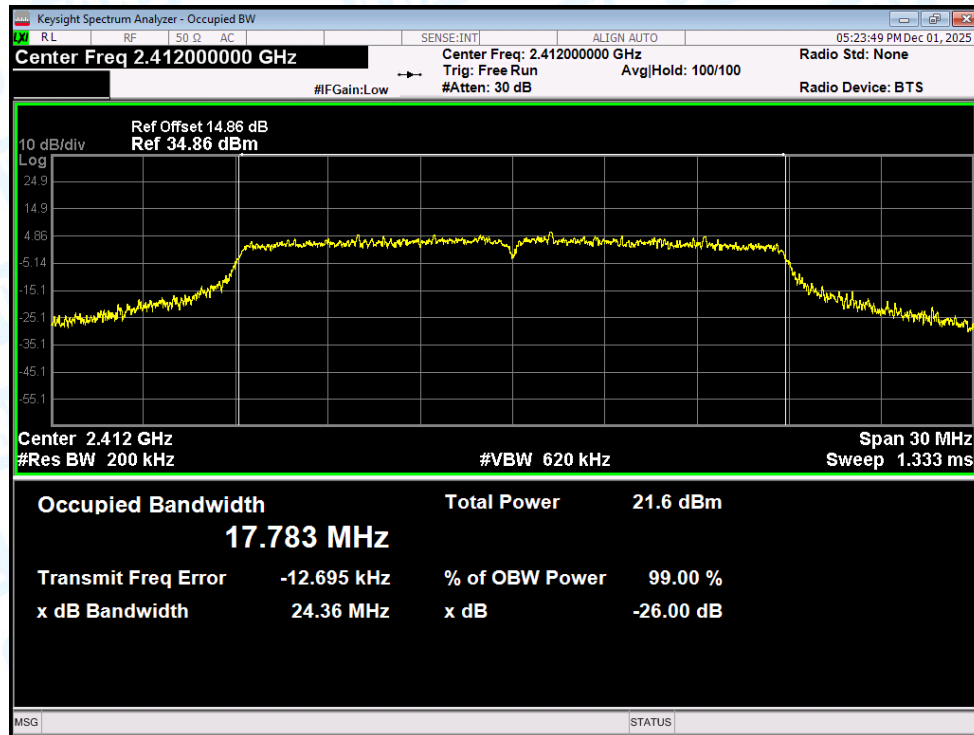
OBW NVNT g 2437MHz Ant1



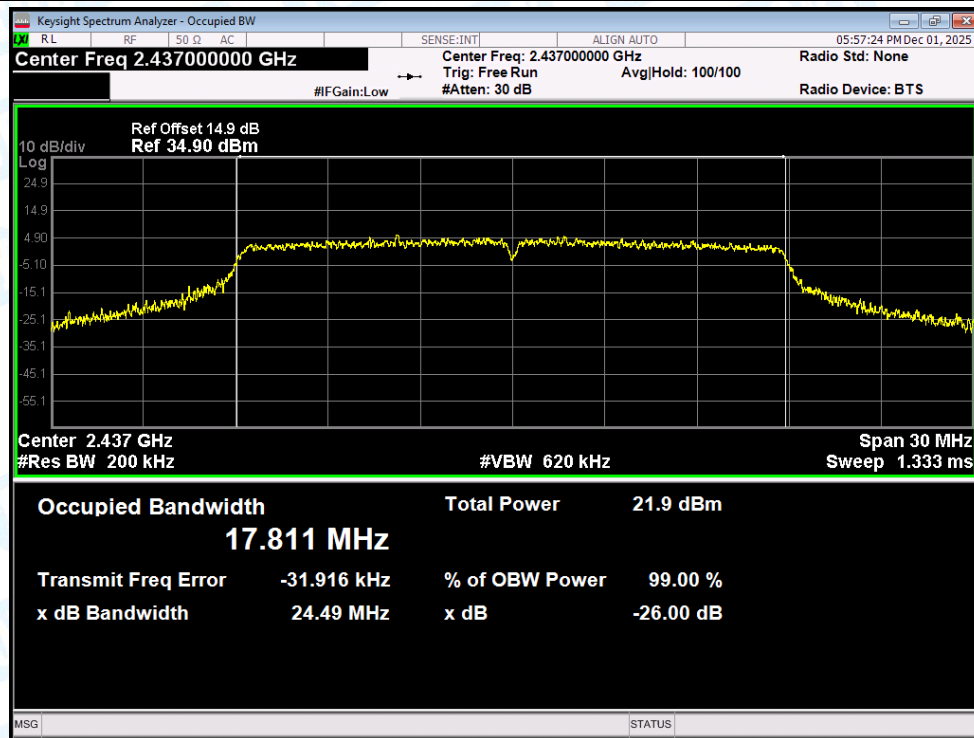
OBW NVNT g 2462MHz Ant1



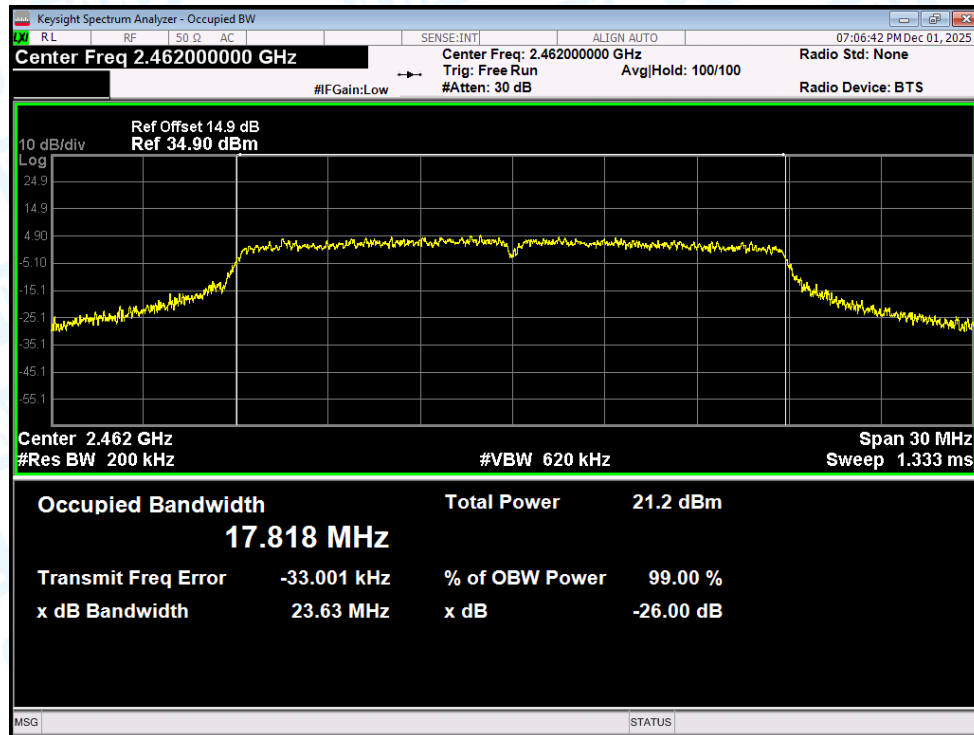
OBW NVNT n(HT20) 2412MHz Ant1



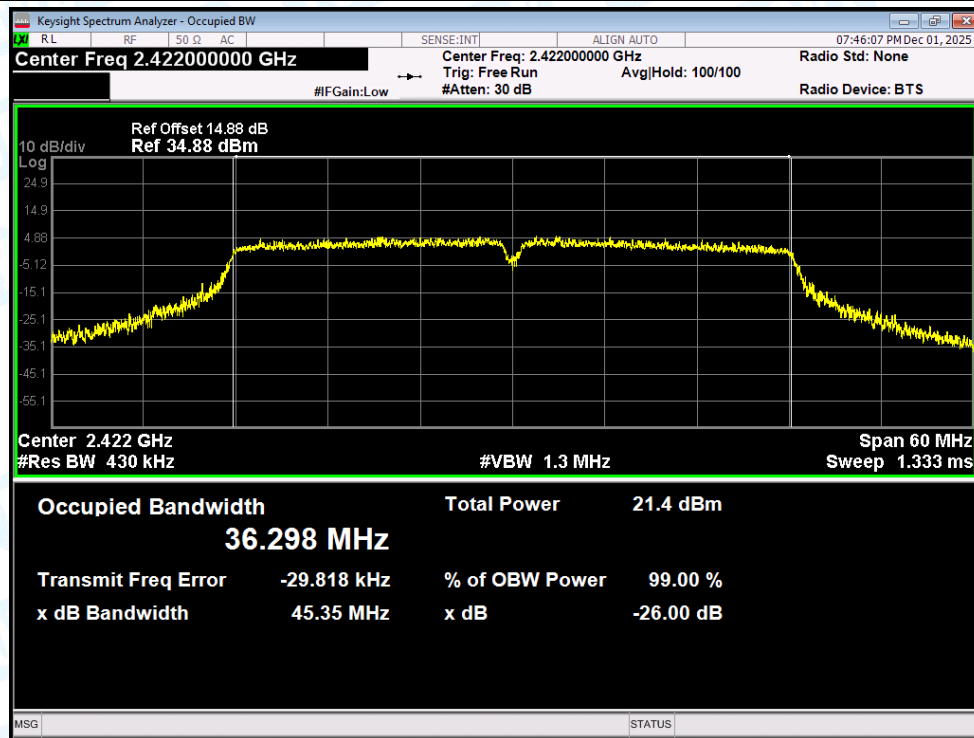
OBW NVNT n(HT20) 2437MHz Ant1



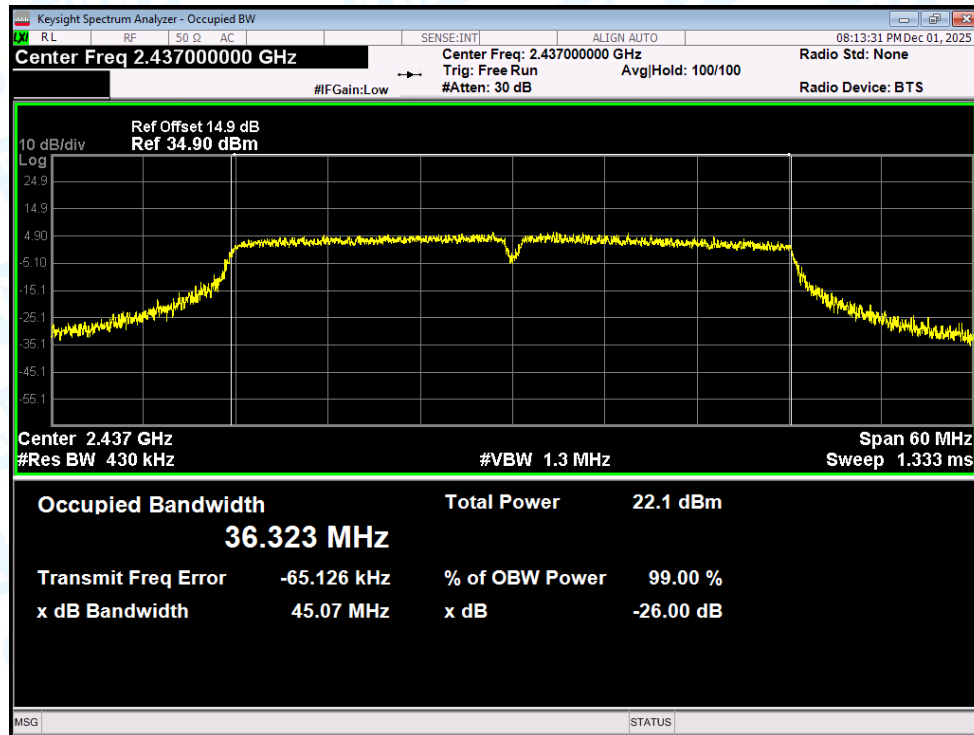
OBW NVNT n(HT20) 2462MHz Ant1



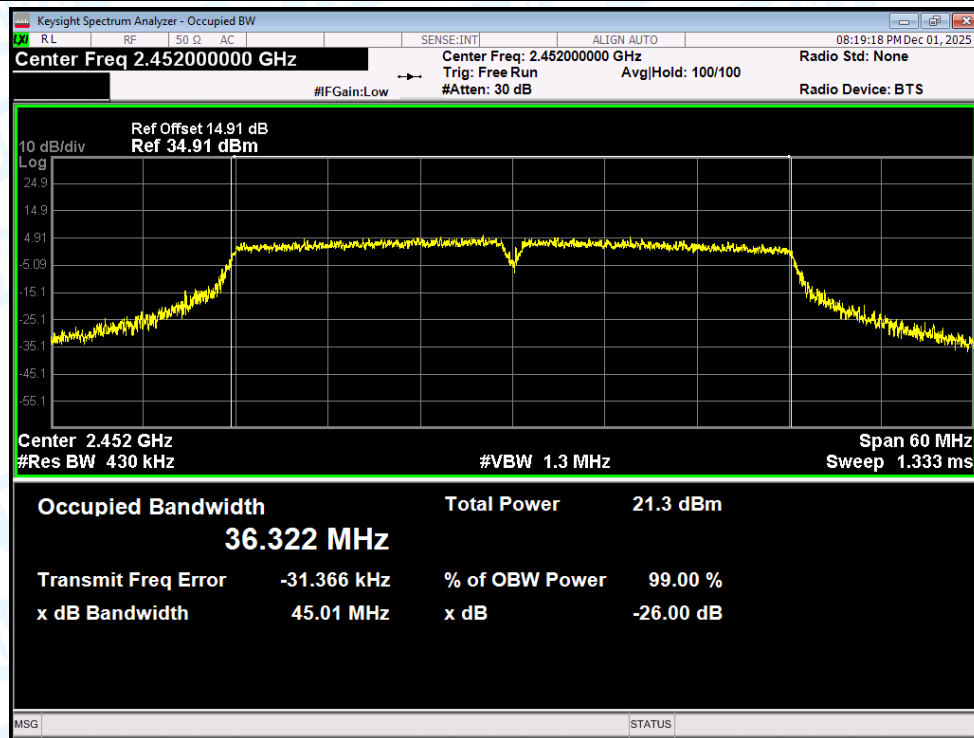
OBW NVNT n(HT40) 2422MHz Ant1



OBW NVNT n(HT40) 2437MHz Ant1



OBW NVNT n(HT40) 2452MHz Ant1



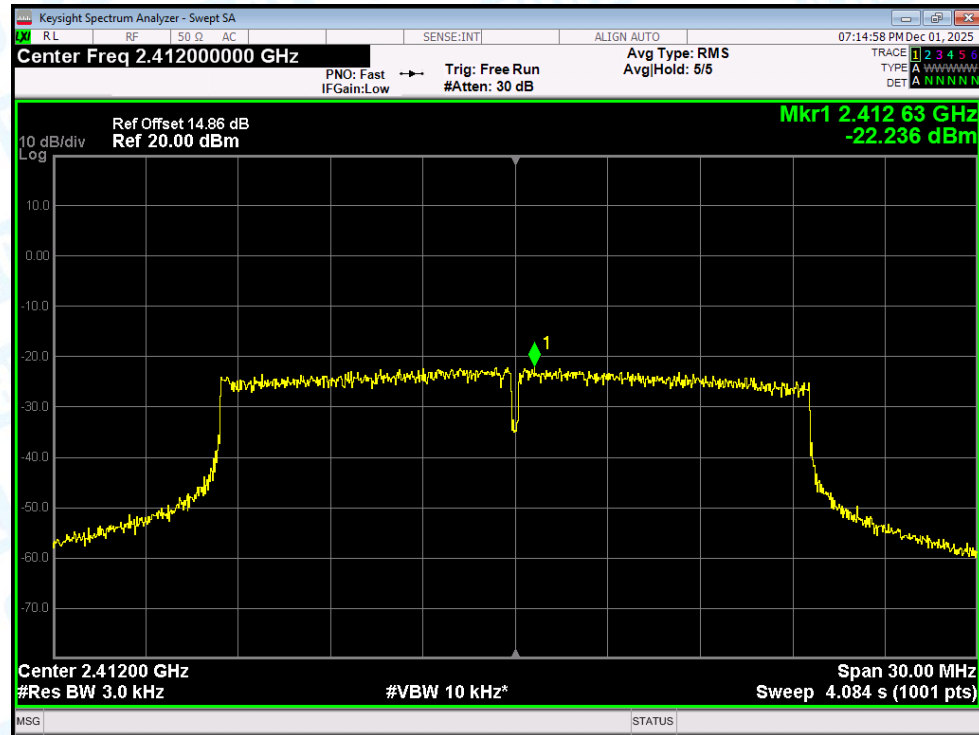
5. Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	ax(VHT20)	2412	Ant1	-22.236	8	Pass
NVNT	ax(VHT20)	2437	Ant1	-21.371	8	Pass
NVNT	ax(VHT20)	2462	Ant1	-23.628	8	Pass
NVNT	ax(VHT40)	2422	Ant1	-27.214	8	Pass
NVNT	ax(VHT40)	2437	Ant1	-26.395	8	Pass
NVNT	ax(VHT40)	2452	Ant1	-29.357	8	Pass
NVNT	b	2412	Ant1	-19.16	8	Pass
NVNT	b	2437	Ant1	-25.598	8	Pass
NVNT	b	2462	Ant1	-25.801	8	Pass
NVNT	g	2412	Ant1	-25.135	8	Pass
NVNT	g	2437	Ant1	-29.112	8	Pass
NVNT	g	2462	Ant1	-22.685	8	Pass
NVNT	n(HT20)	2412	Ant1	-25.191	8	Pass
NVNT	n(HT20)	2437	Ant1	-25.224	8	Pass
NVNT	n(HT20)	2462	Ant1	-22.887	8	Pass
NVNT	n(HT40)	2422	Ant1	-25.683	8	Pass
NVNT	n(HT40)	2437	Ant1	-24.224	8	Pass
NVNT	n(HT40)	2452	Ant1	-25.319	8	Pass

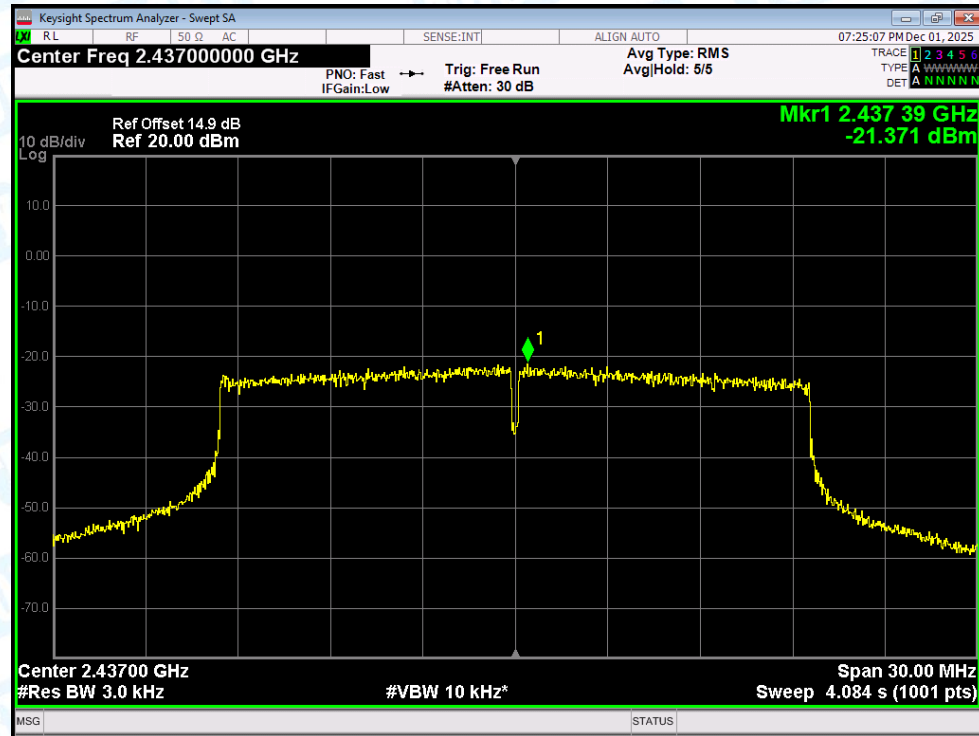
Note: The duty factor has been compensated into the result.

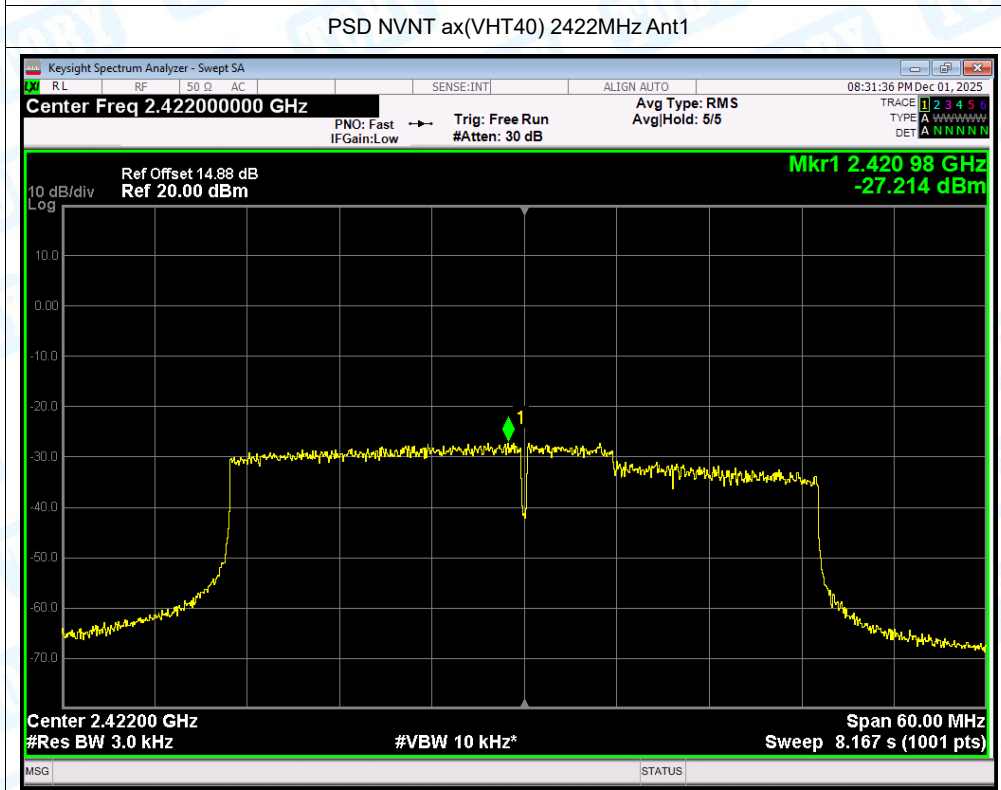
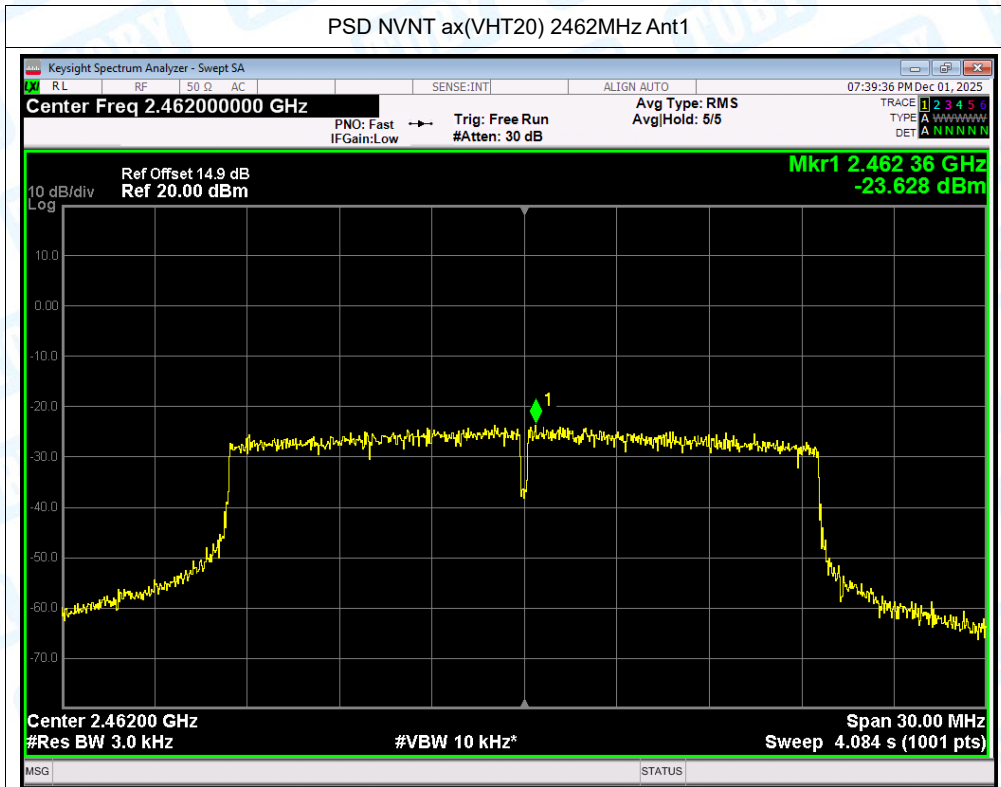
Test Graphs

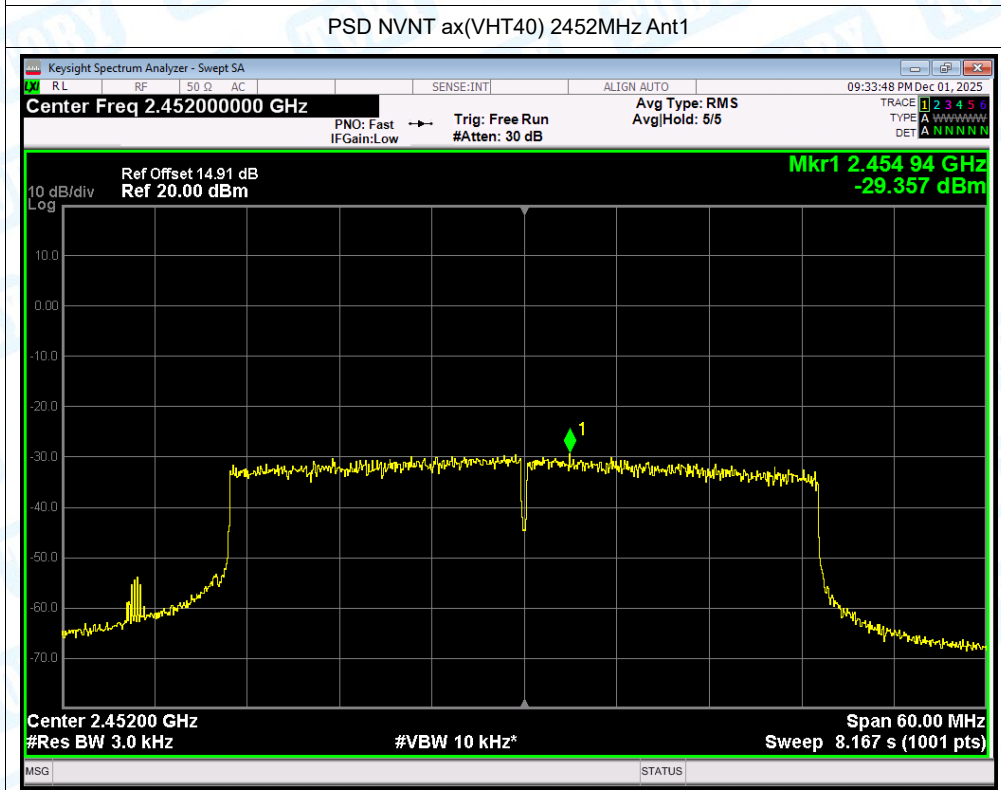
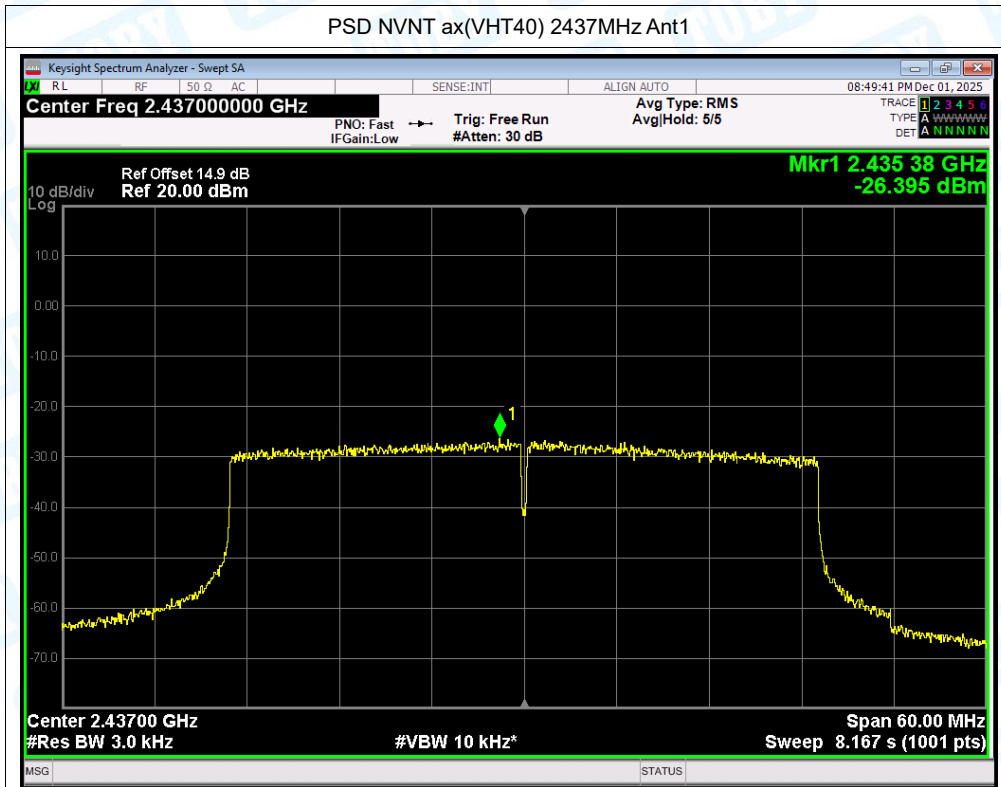
PSD NVNT ax(VHT20) 2412MHz Ant1

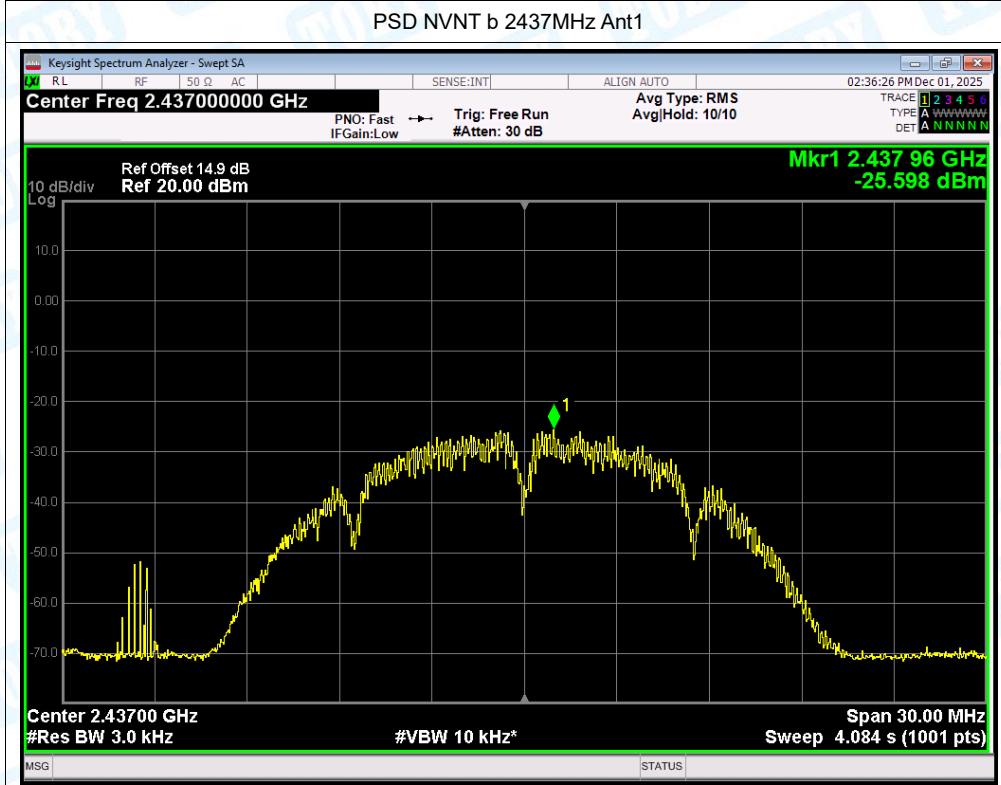
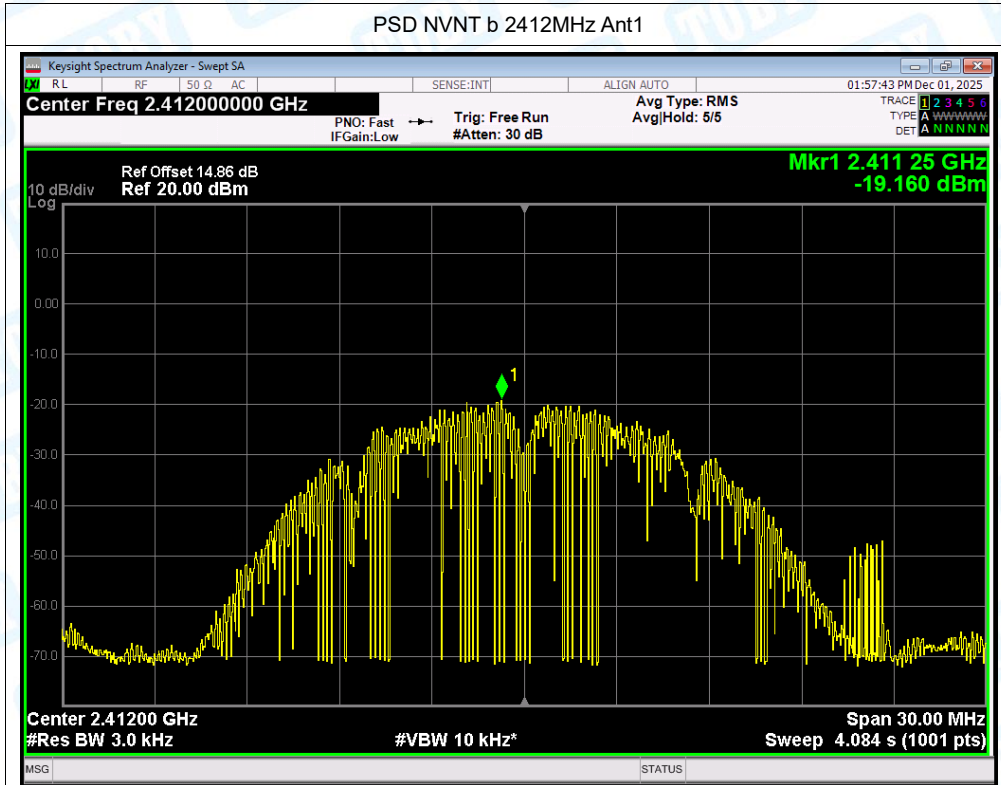


PSD NVNT ax(VHT20) 2437MHz Ant1

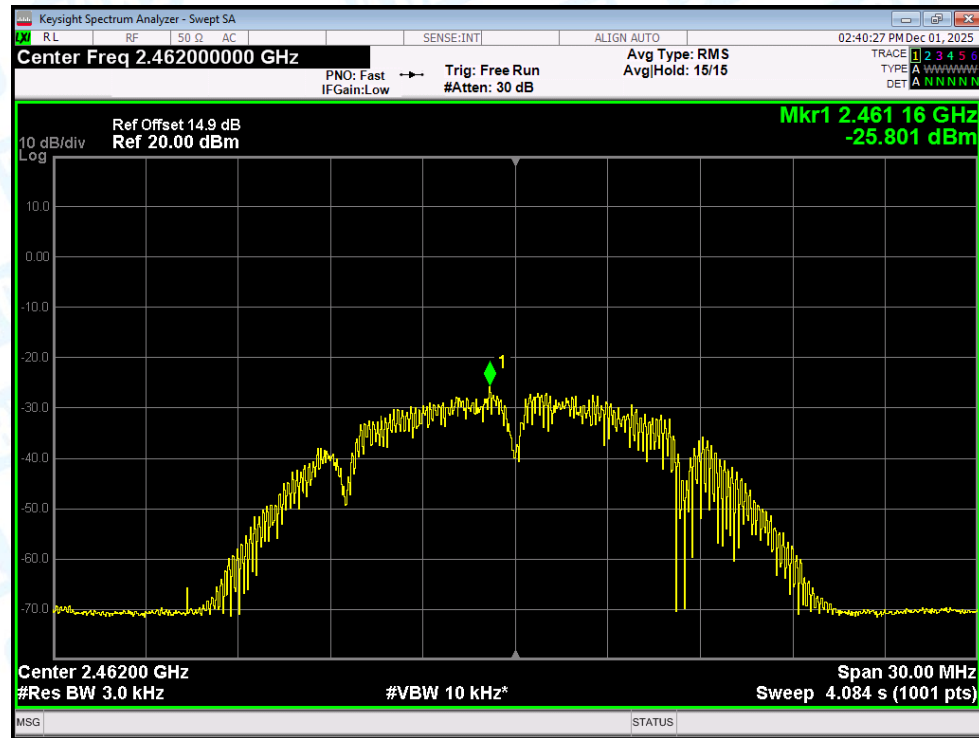




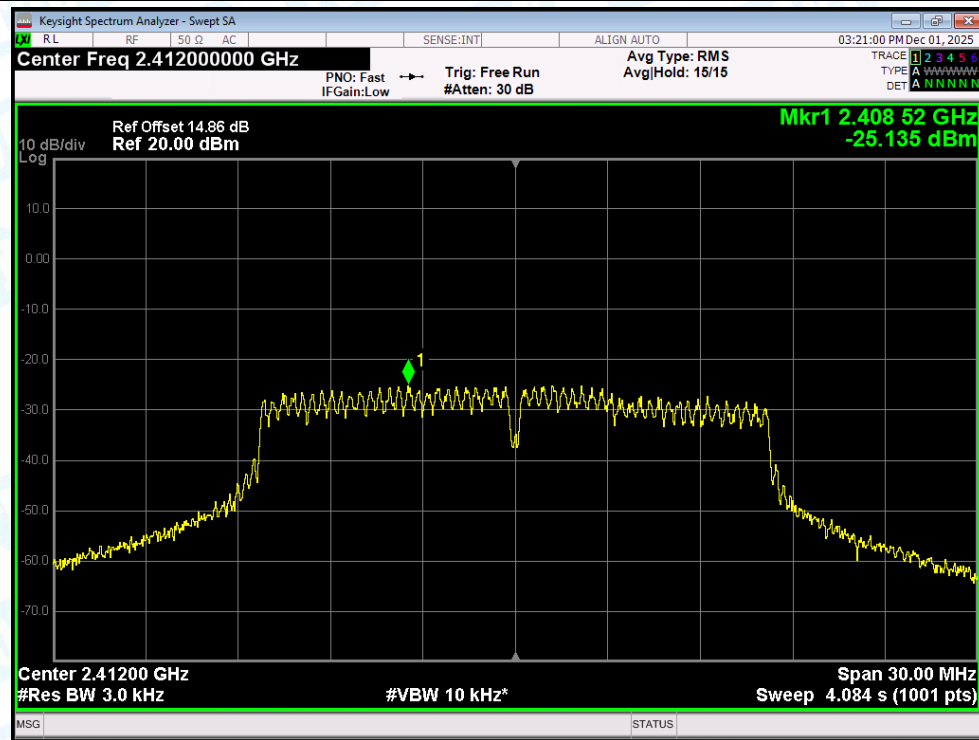




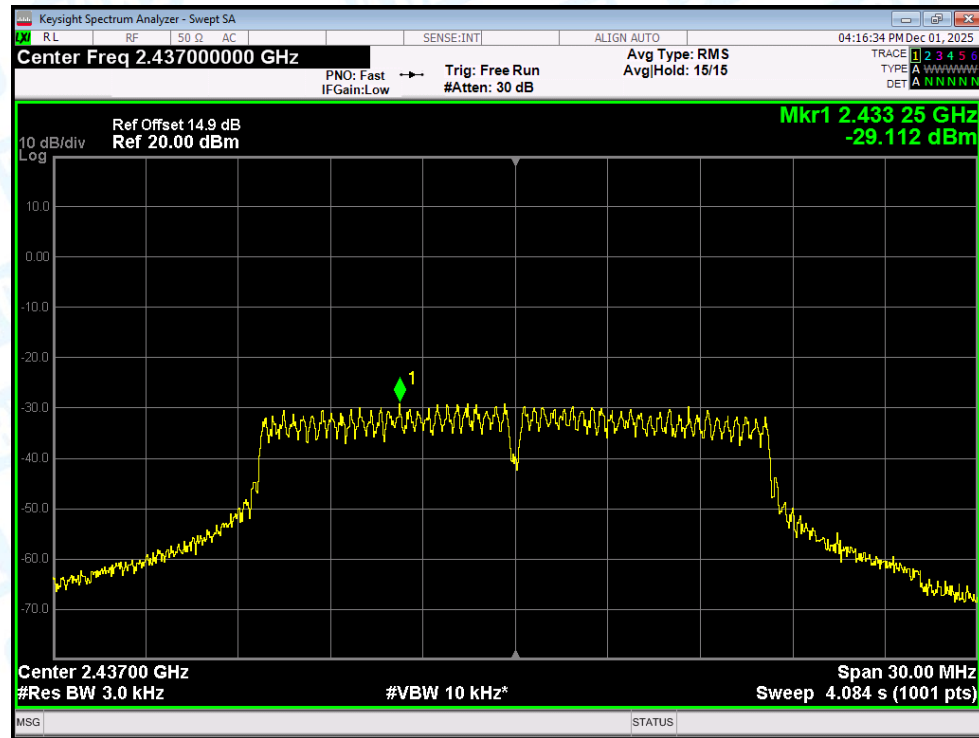
PSD NVNT b 2462MHz Ant1



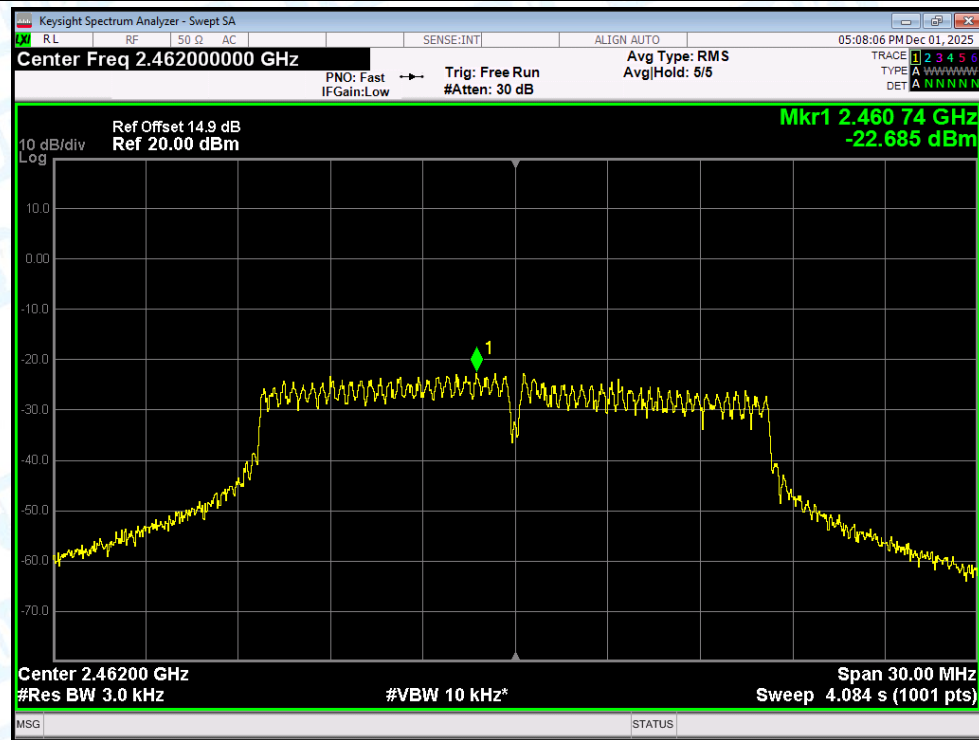
PSD NVNT g 2412MHz Ant1

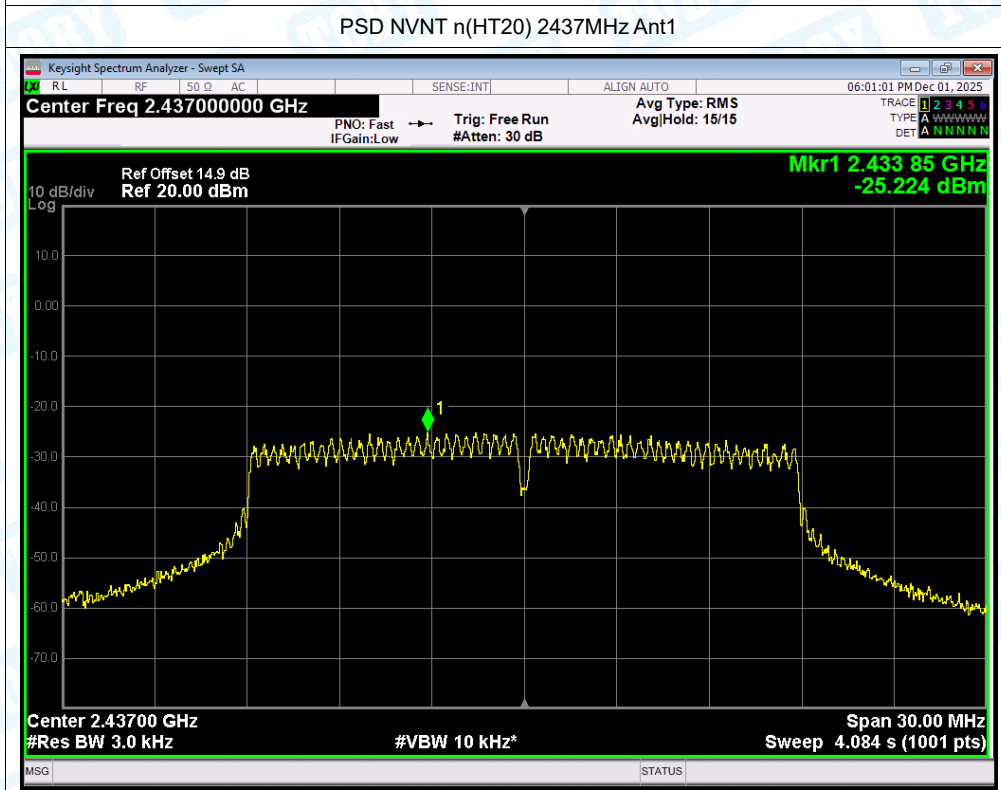
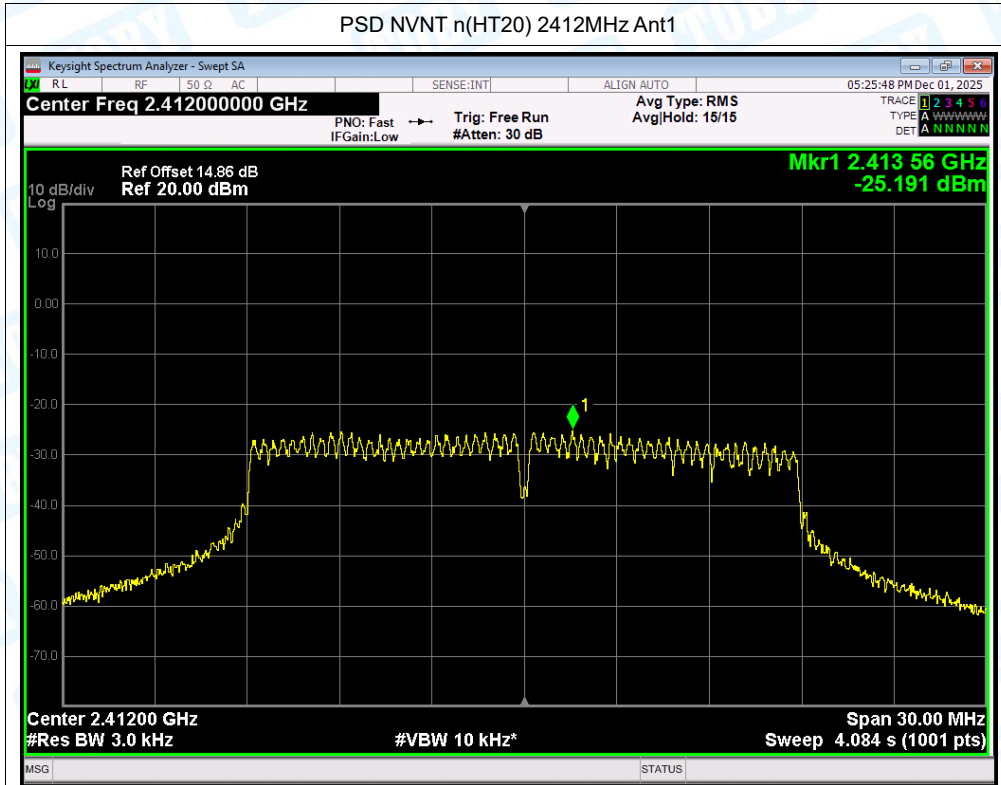


PSD NVNT g 2437MHz Ant1

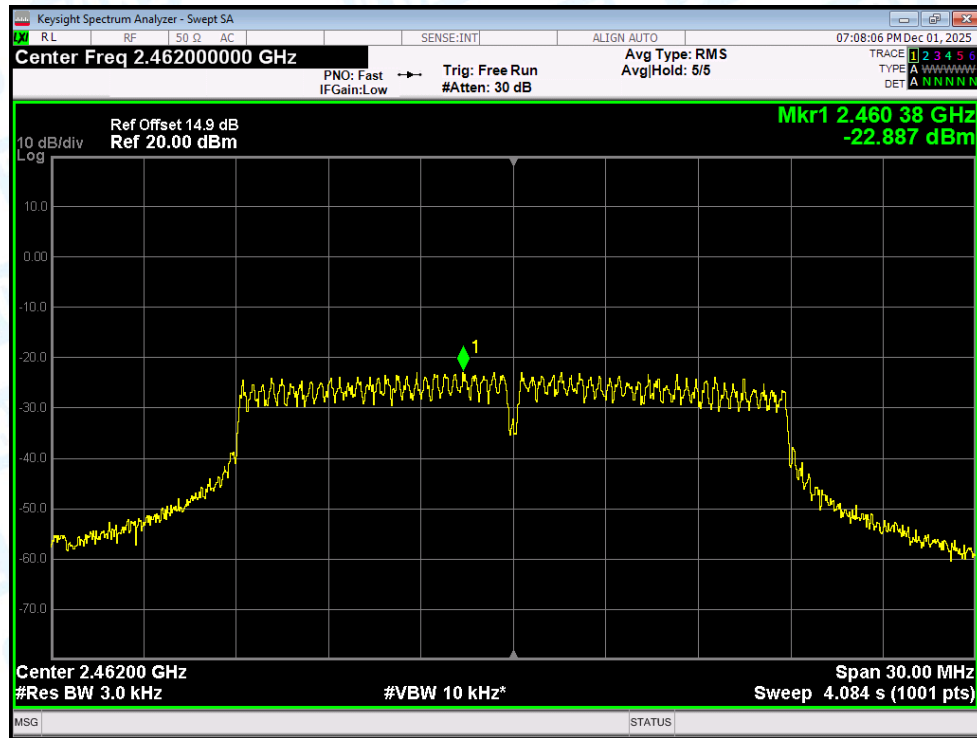


PSD NVNT g 2462MHz Ant1

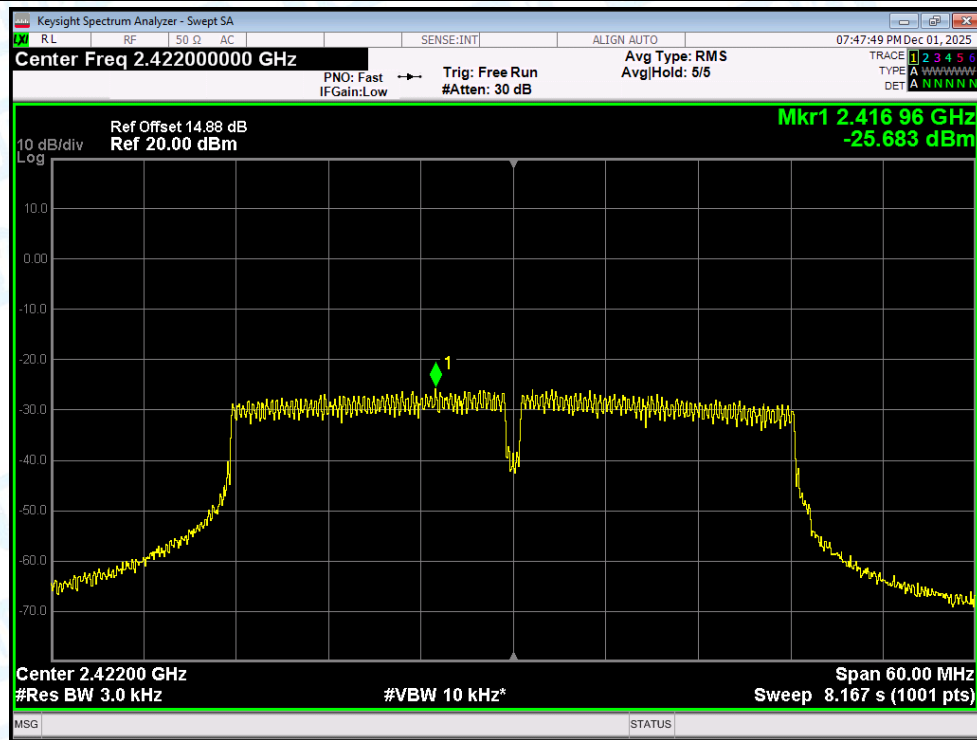


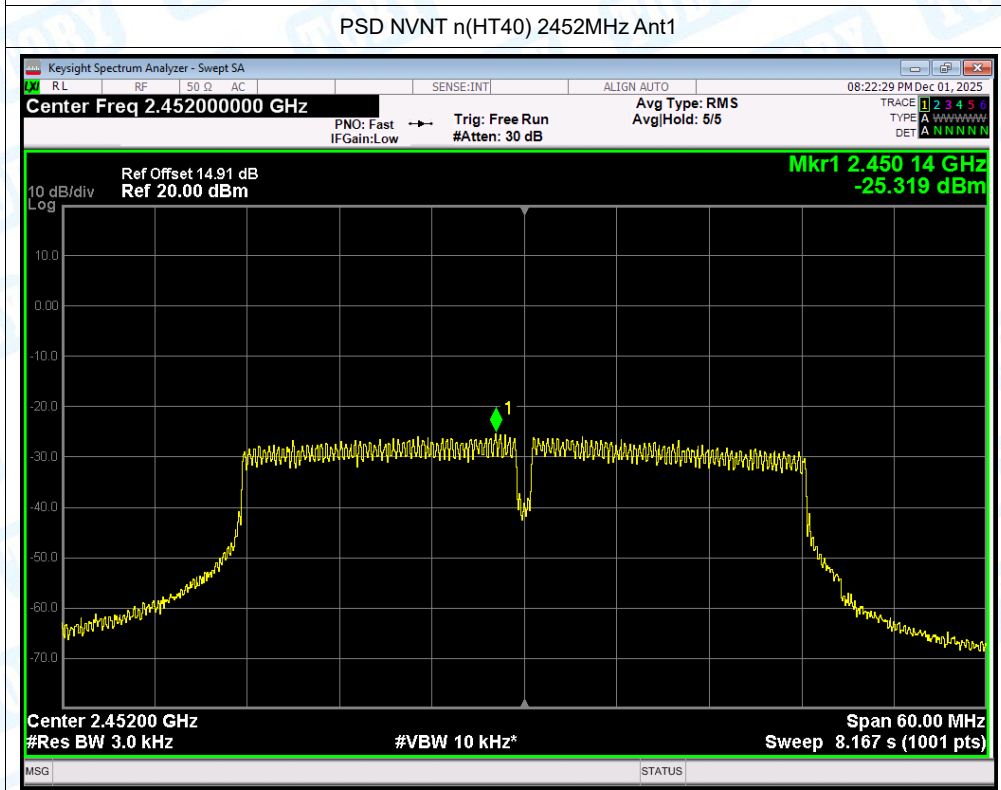
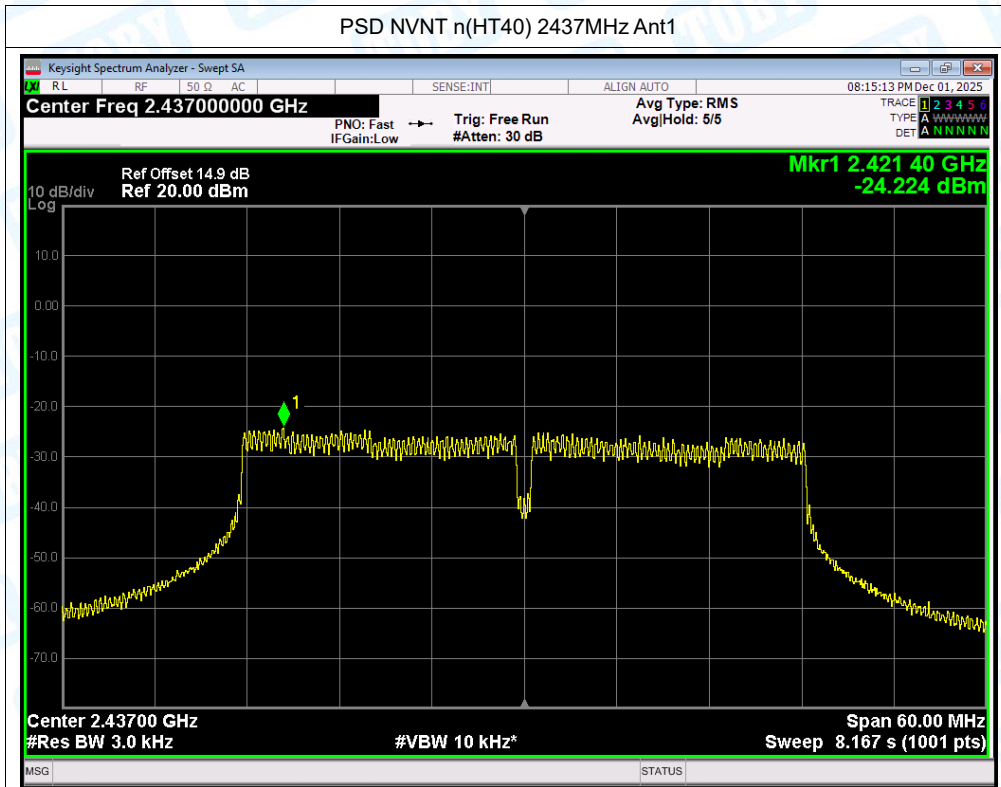


PSD NVNT n(HT20) 2462MHz Ant1



PSD NVNT n(HT40) 2422MHz Ant1



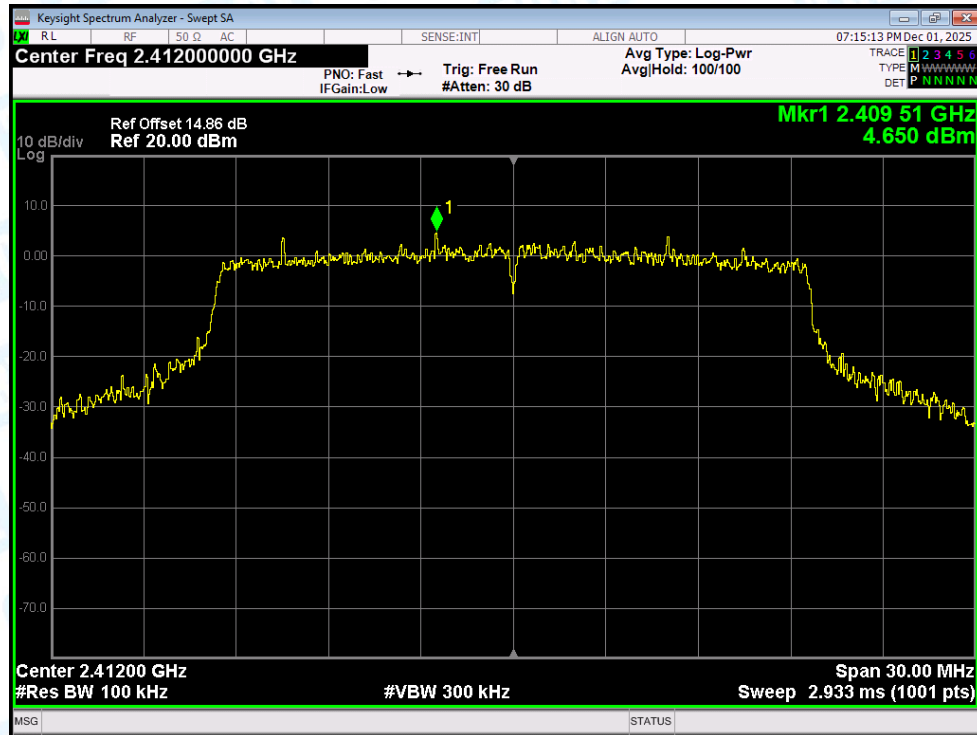


6.Band Edge

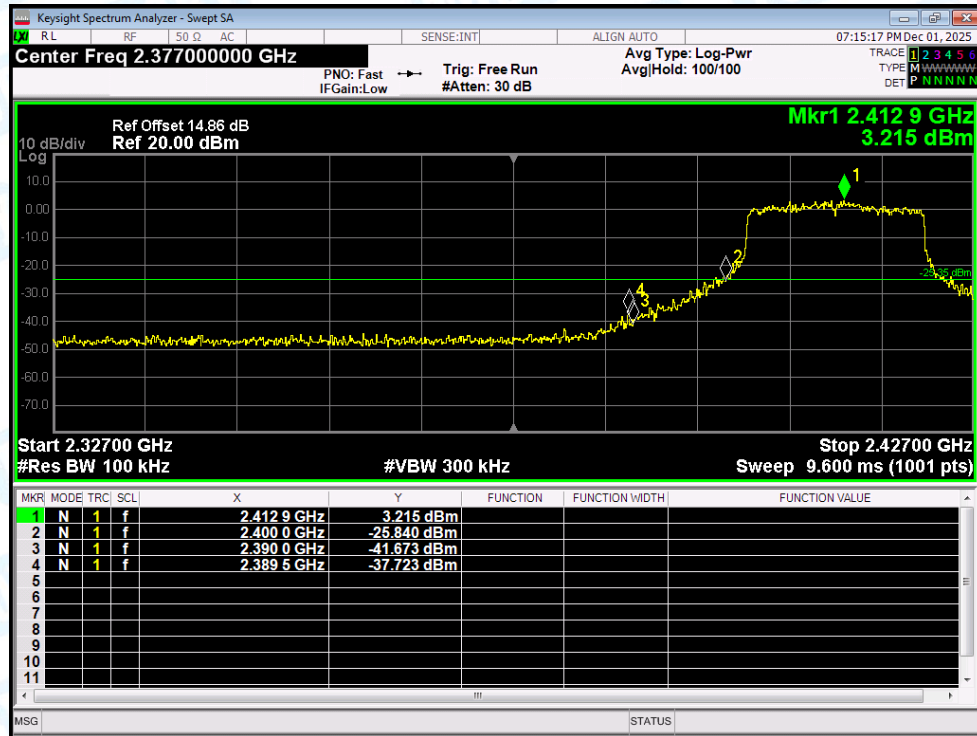
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	ax(VHT20)	2412	Ant1	-42.37	-30	Pass
NVNT	ax(VHT20)	2462	Ant1	-44.72	-30	Pass
NVNT	ax(VHT40)	2422	Ant1	-38.05	-30	Pass
NVNT	ax(VHT40)	2452	Ant1	-39.33	-30	Pass
NVNT	b	2412	Ant1	-51.79	-30	Pass
NVNT	b	2462	Ant1	-48.29	-30	Pass
NVNT	g	2412	Ant1	-47.01	-30	Pass
NVNT	g	2462	Ant1	-47.65	-30	Pass
NVNT	n(HT20)	2412	Ant1	-42.62	-30	Pass
NVNT	n(HT20)	2462	Ant1	-46.88	-30	Pass
NVNT	n(HT40)	2422	Ant1	-38.54	-30	Pass
NVNT	n(HT40)	2452	Ant1	-37.98	-30	Pass

Test Graphs

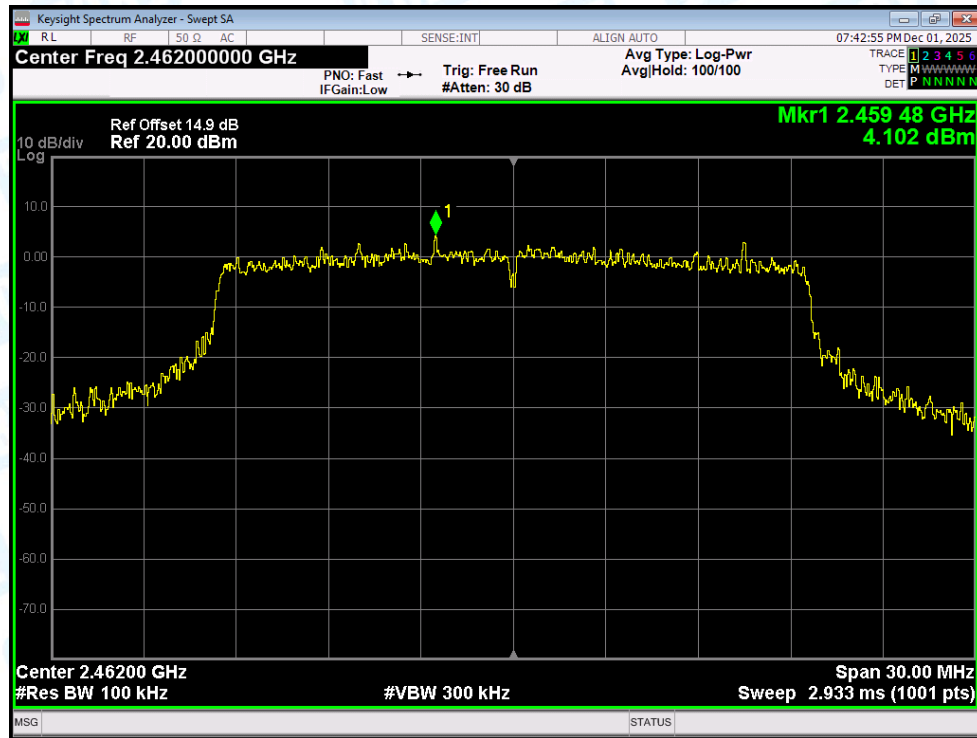
Band Edge NVNT ax(VHT20) 2412MHz Ant1 Ref



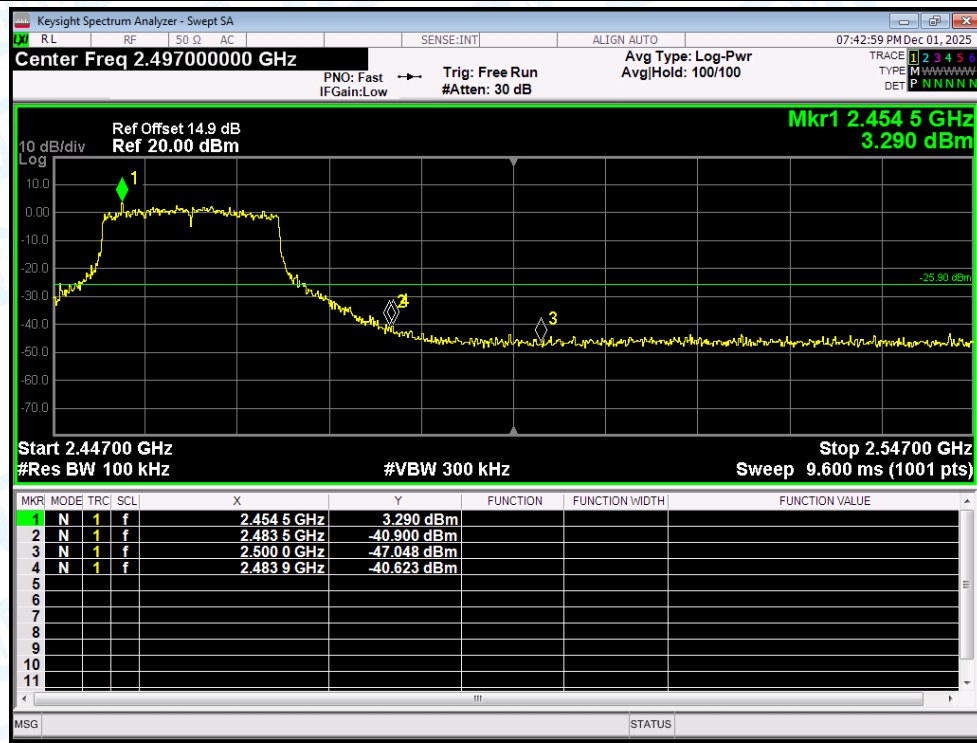
Band Edge NVNT ax(VHT20) 2412MHz Ant1 Emission

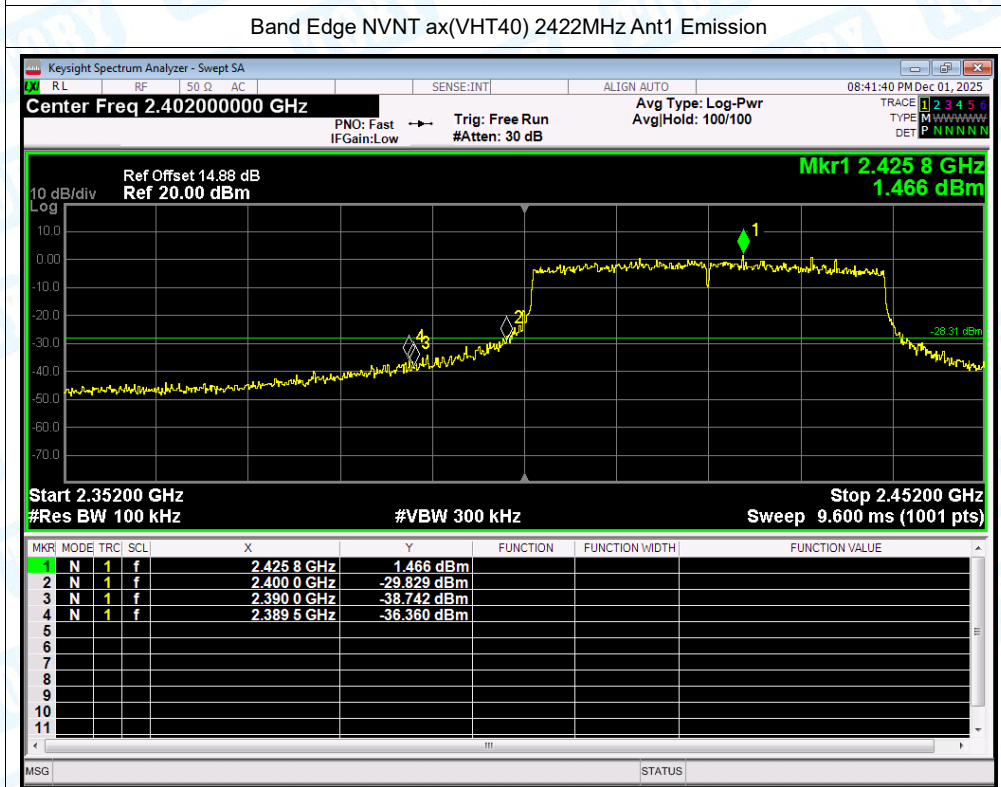
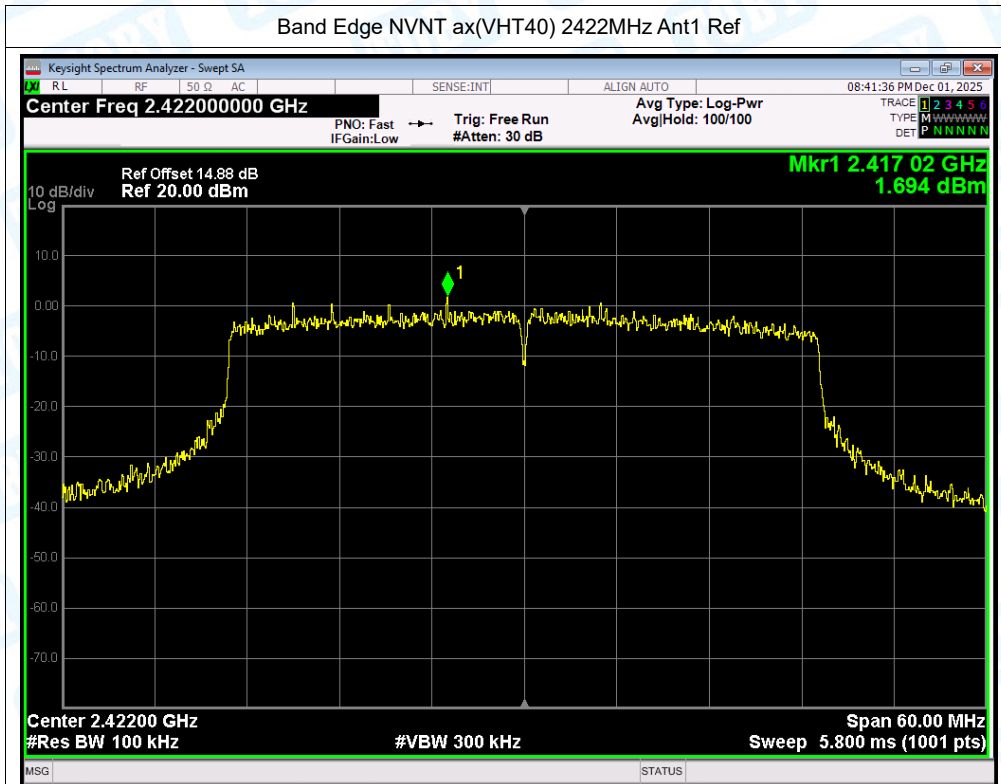


Band Edge NVNT ax(VHT20) 2462MHz Ant1 Ref

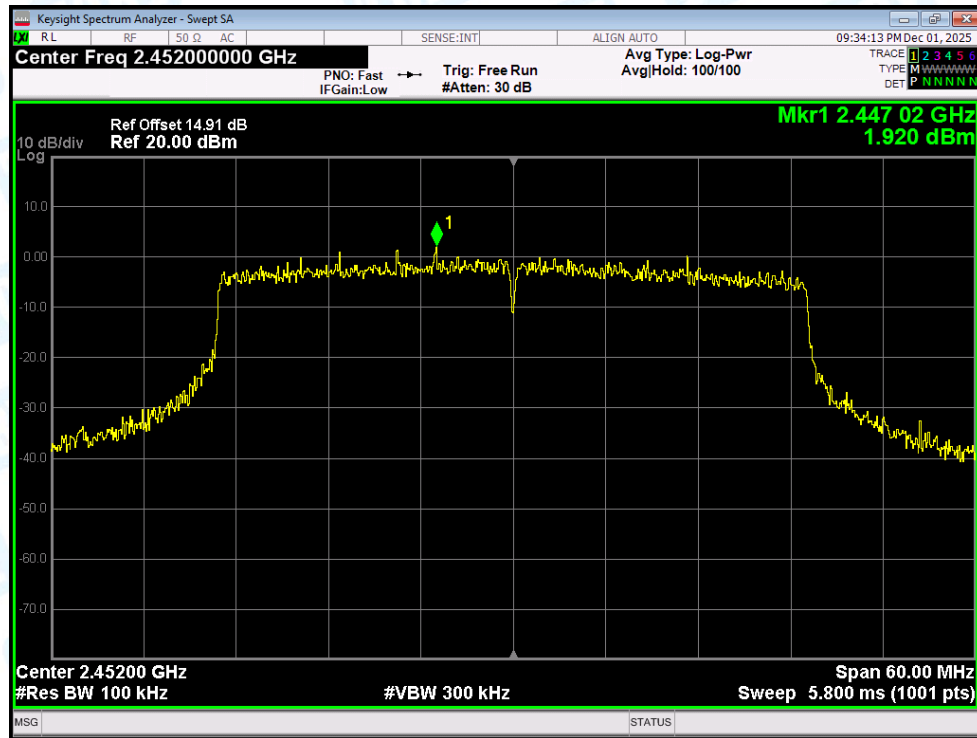


Band Edge NVNT ax(VHT20) 2462MHz Ant1 Emission

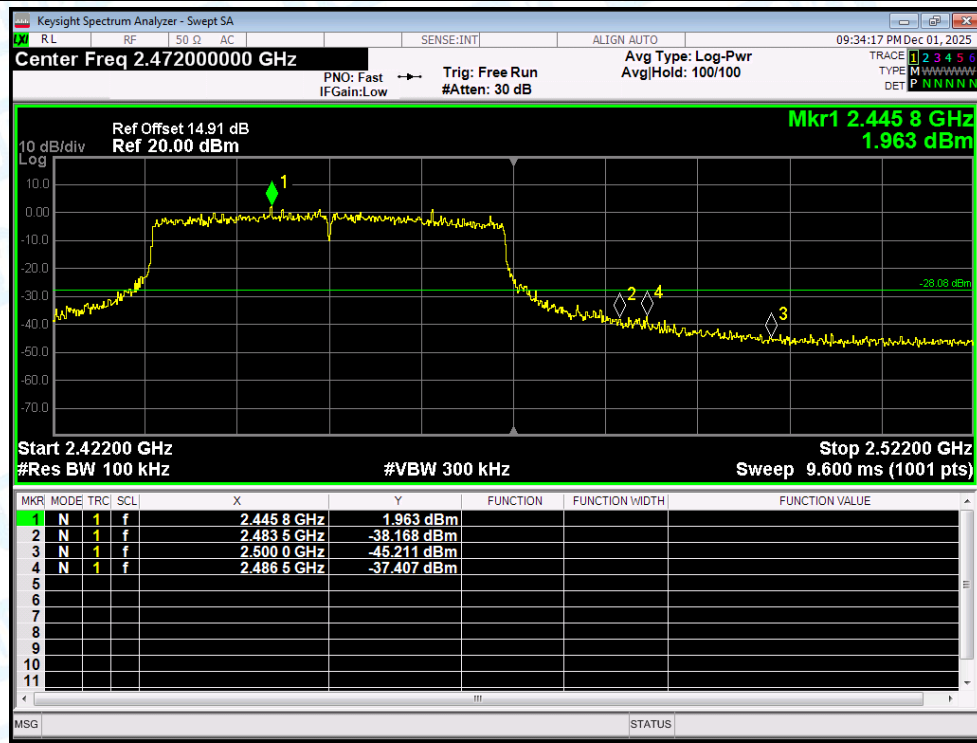




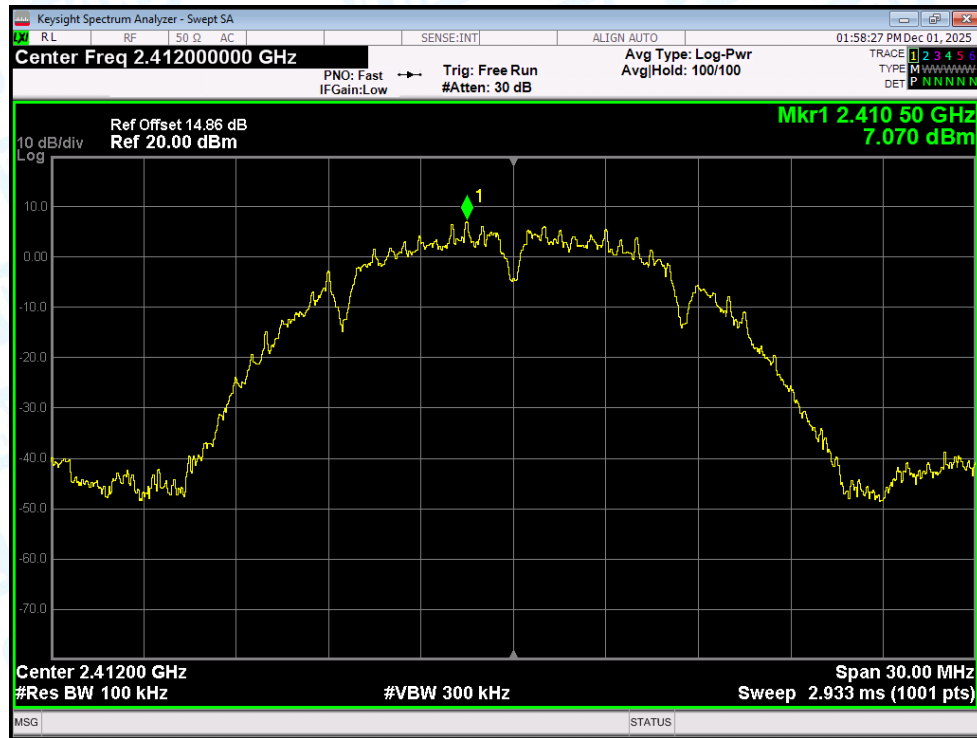
Band Edge NVNT ax(VHT40) 2452MHz Ant1 Ref



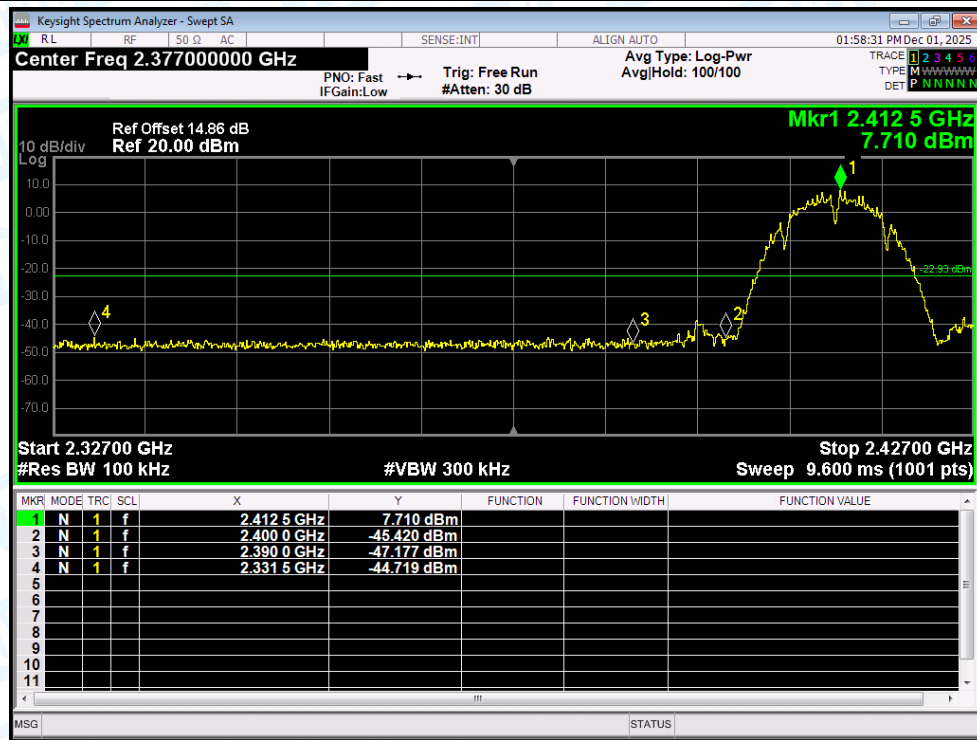
Band Edge NVNT ax(VHT40) 2452MHz Ant1 Emission



Band Edge NVNT b 2412MHz Ant1 Ref



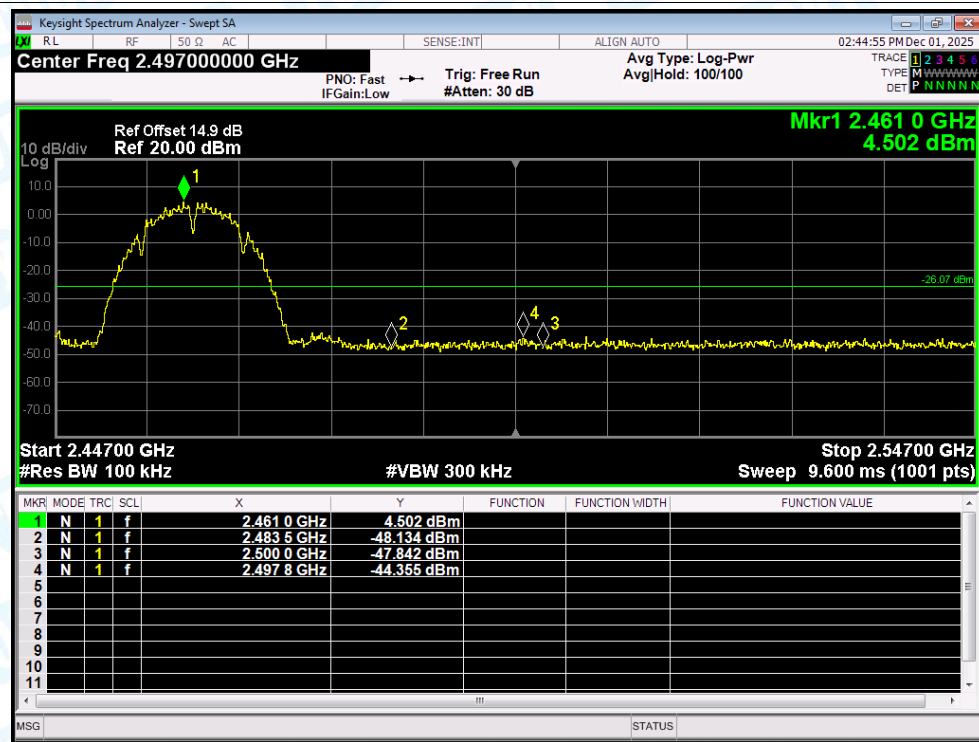
Band Edge NVNT b 2412MHz Ant1 Emission



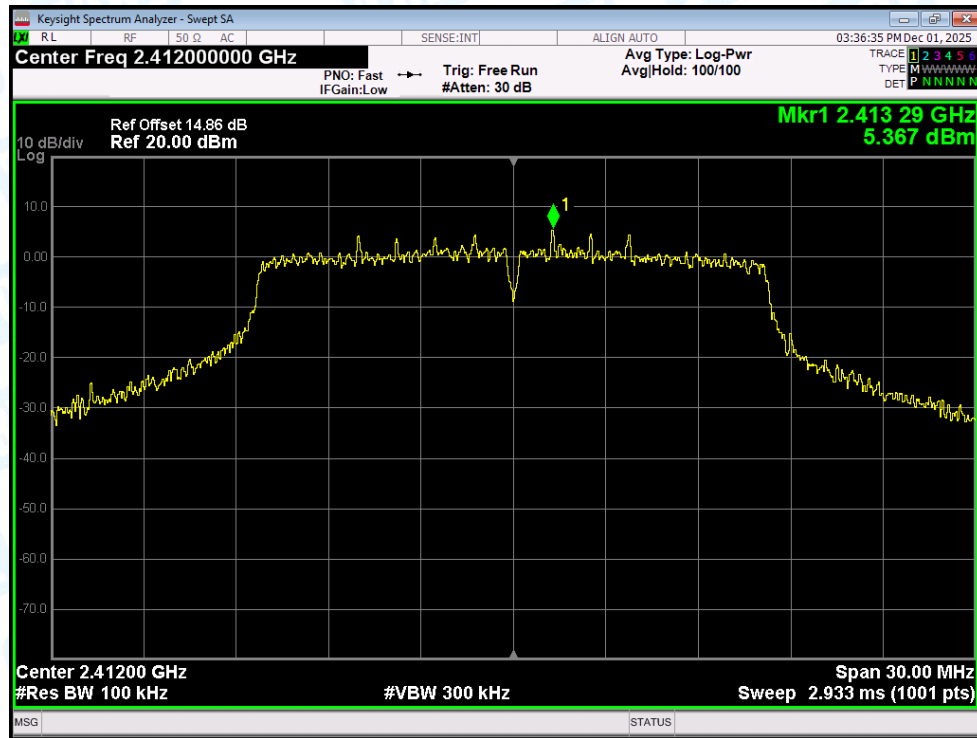
Band Edge NVNT b 2462MHz Ant1 Ref



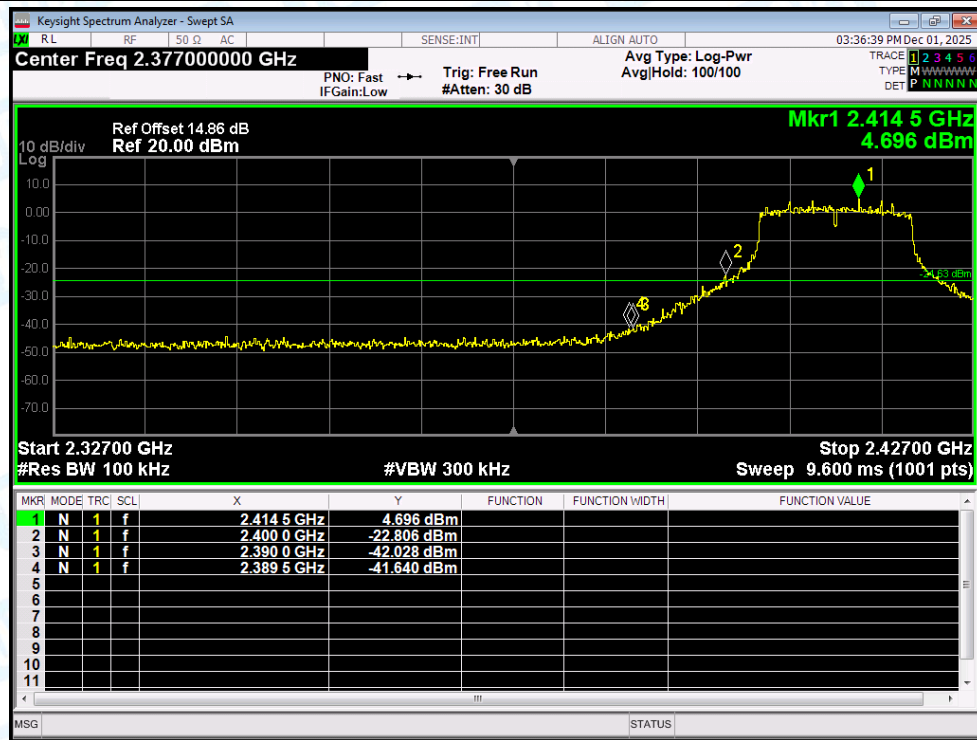
Band Edge NVNT b 2462MHz Ant1 Emission



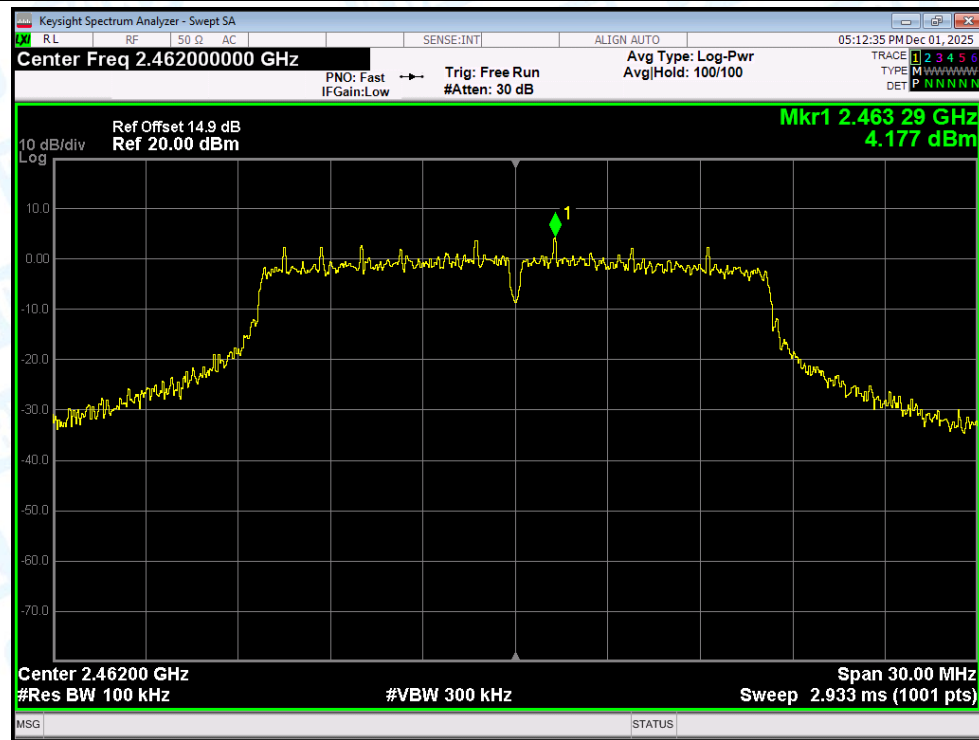
Band Edge NVNT g 2412MHz Ant1 Ref



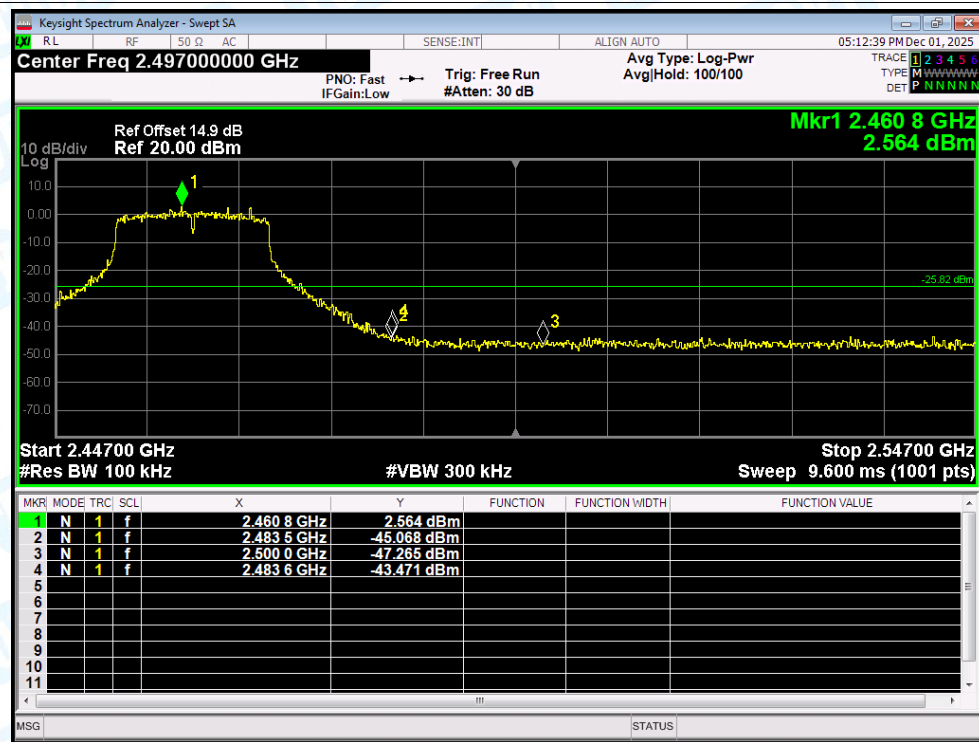
Band Edge NVNT g 2412MHz Ant1 Emission



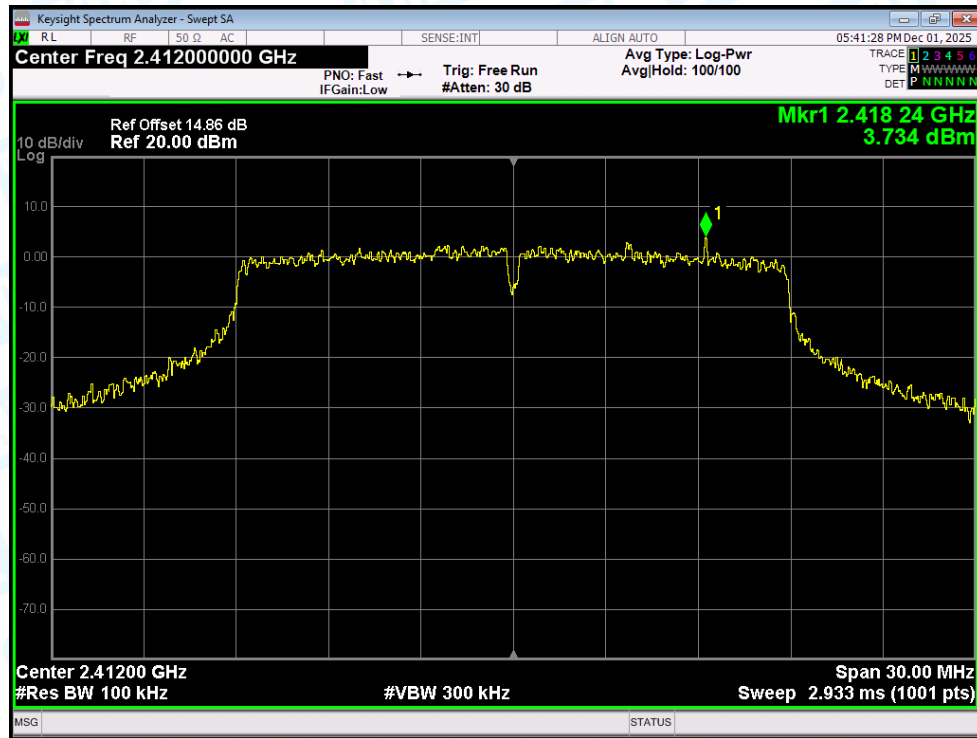
Band Edge NVNT g 2462MHz Ant1 Ref



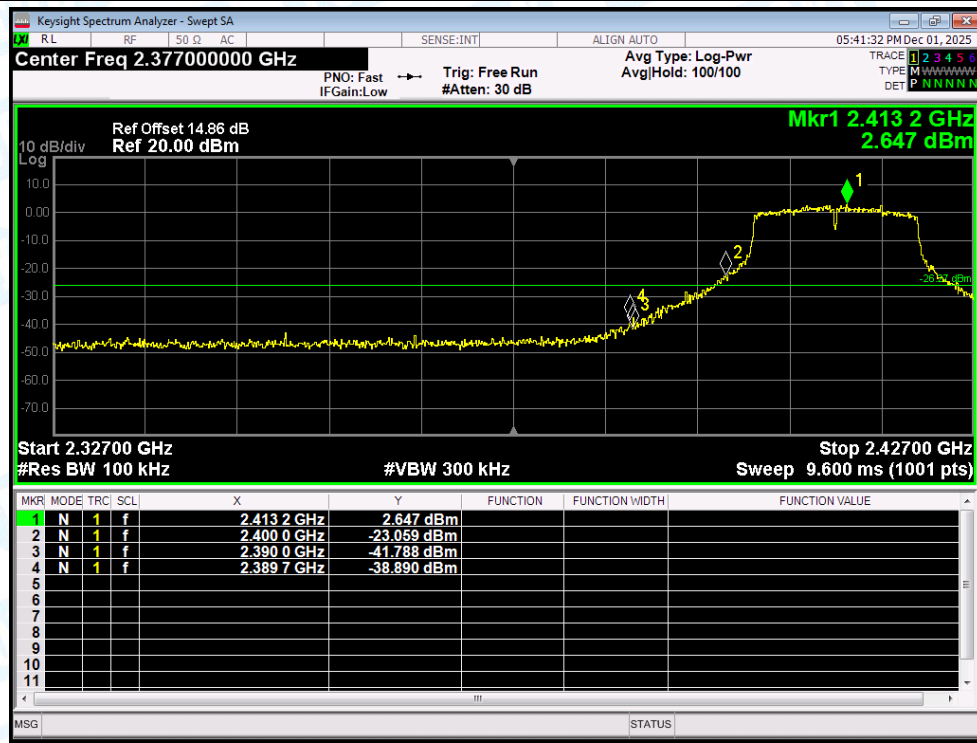
Band Edge NVNT g 2462MHz Ant1 Emission



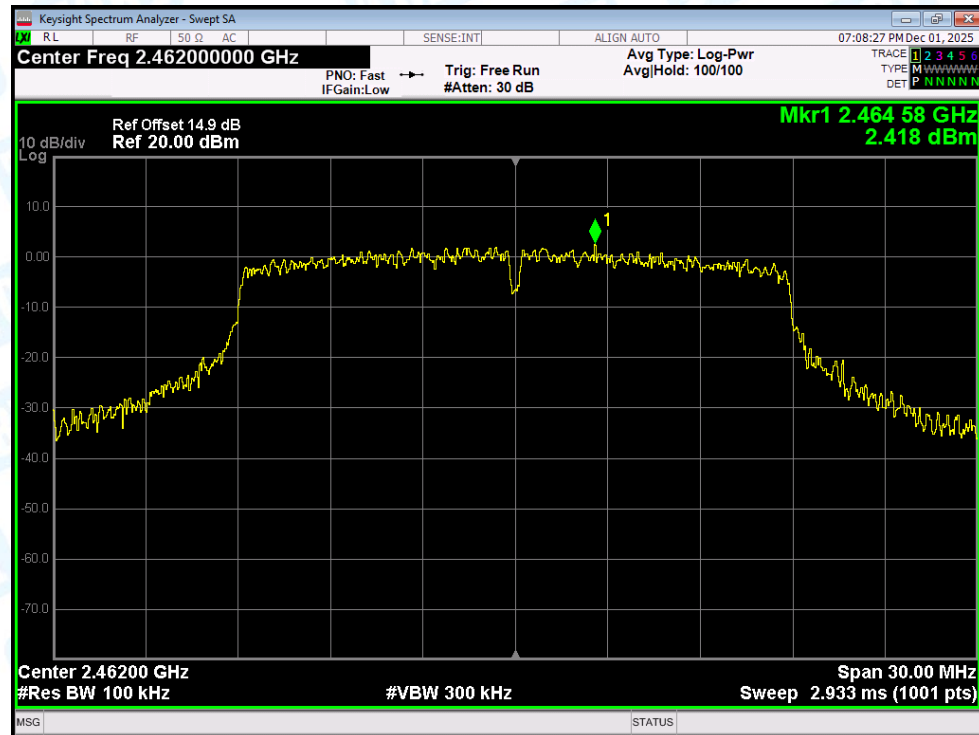
Band Edge NVNT n(HT20) 2412MHz Ant1 Ref



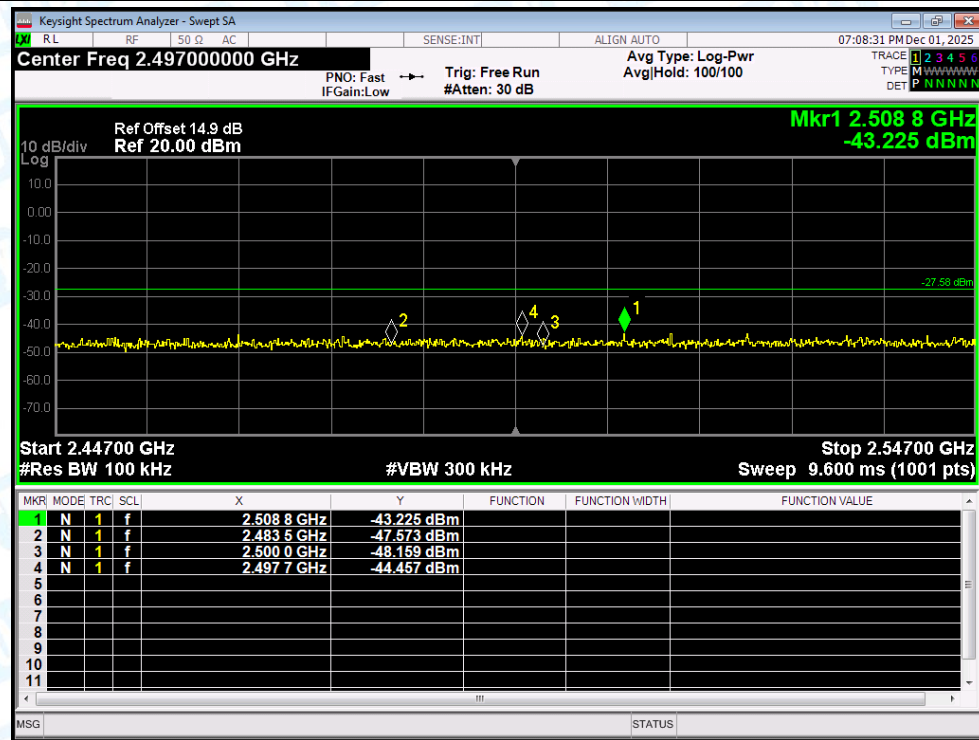
Band Edge NVNT n(HT20) 2412MHz Ant1 Emission



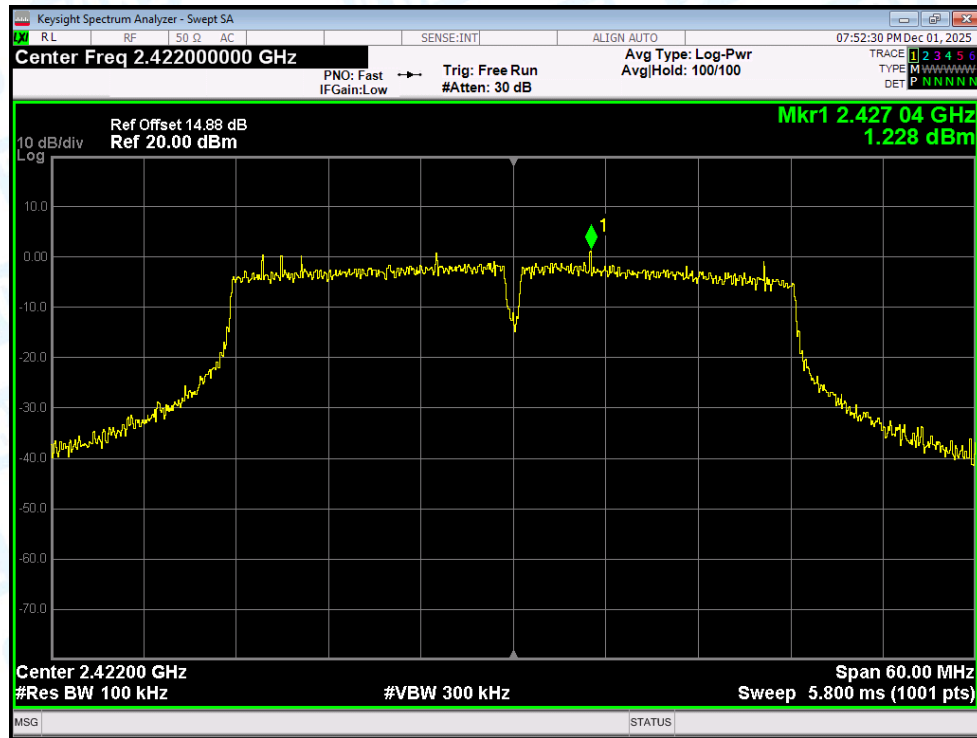
Band Edge NVNT n(HT20) 2462MHz Ant1 Ref



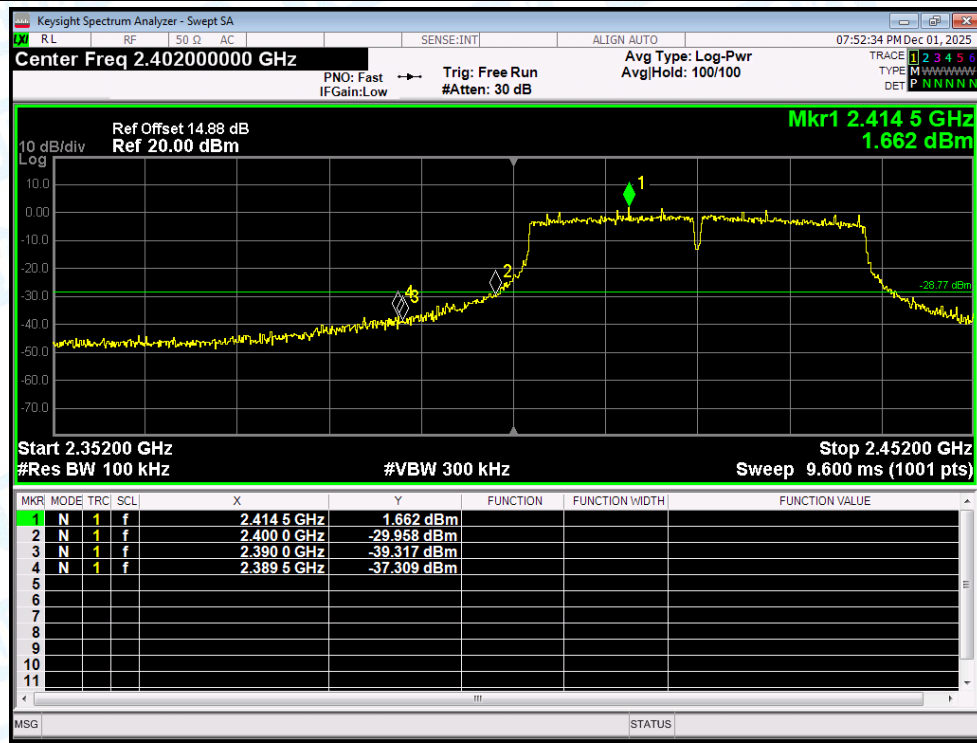
Band Edge NVNT n(HT20) 2462MHz Ant1 Emission



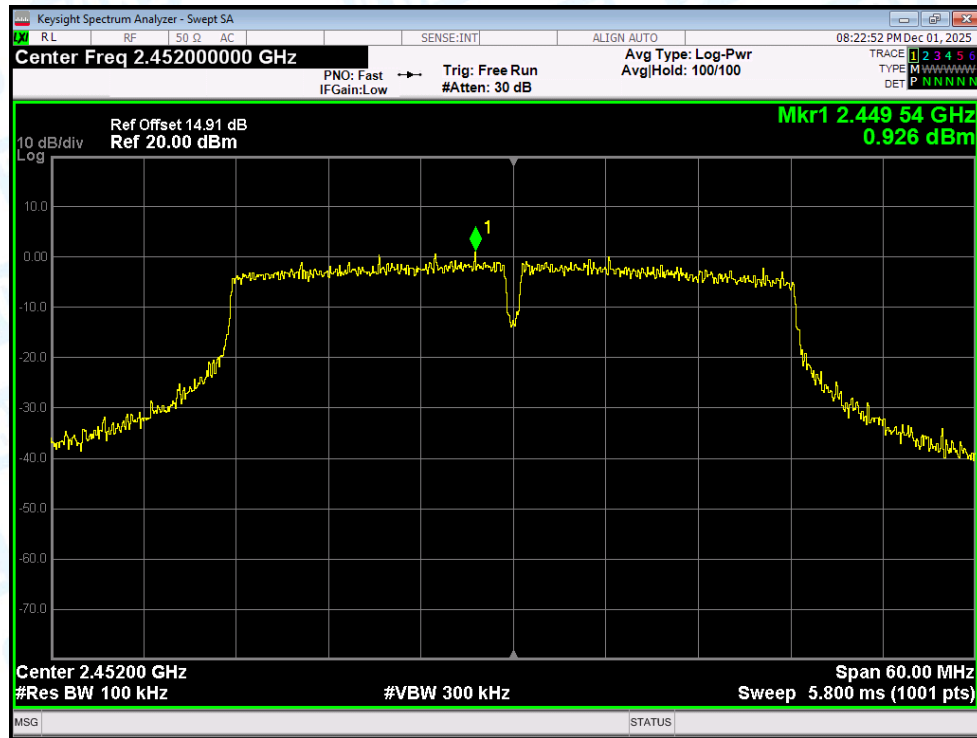
Band Edge NVNT n(HT40) 2422MHz Ant1 Ref



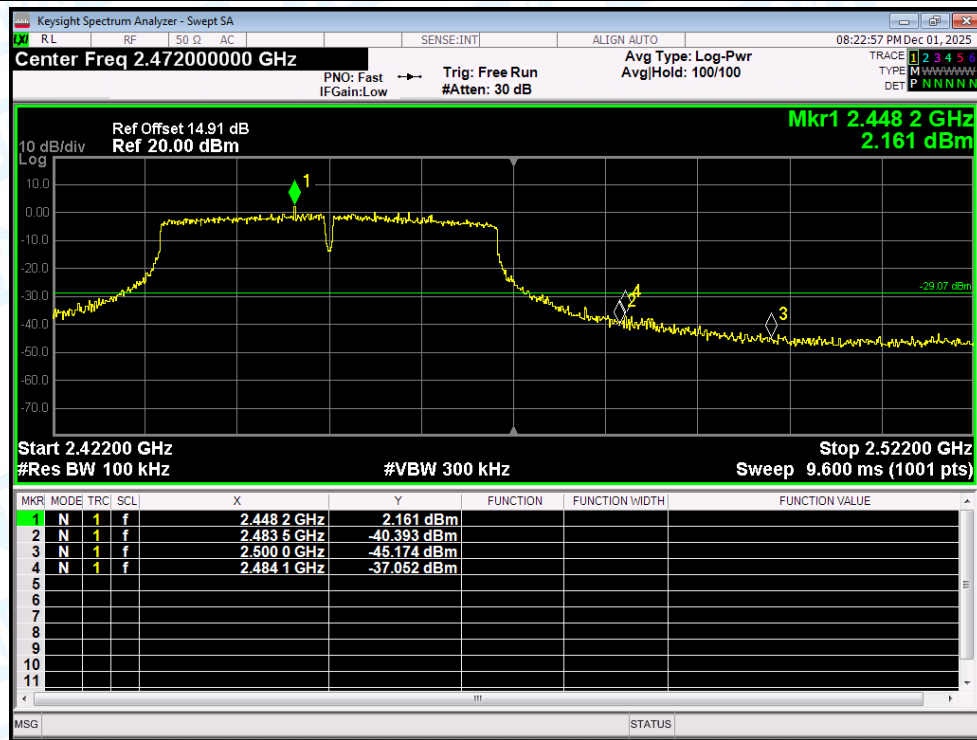
Band Edge NVNT n(HT40) 2422MHz Ant1 Emission



Band Edge NVNT n(HT40) 2452MHz Ant1 Ref



Band Edge NVNT n(HT40) 2452MHz Ant1 Emission

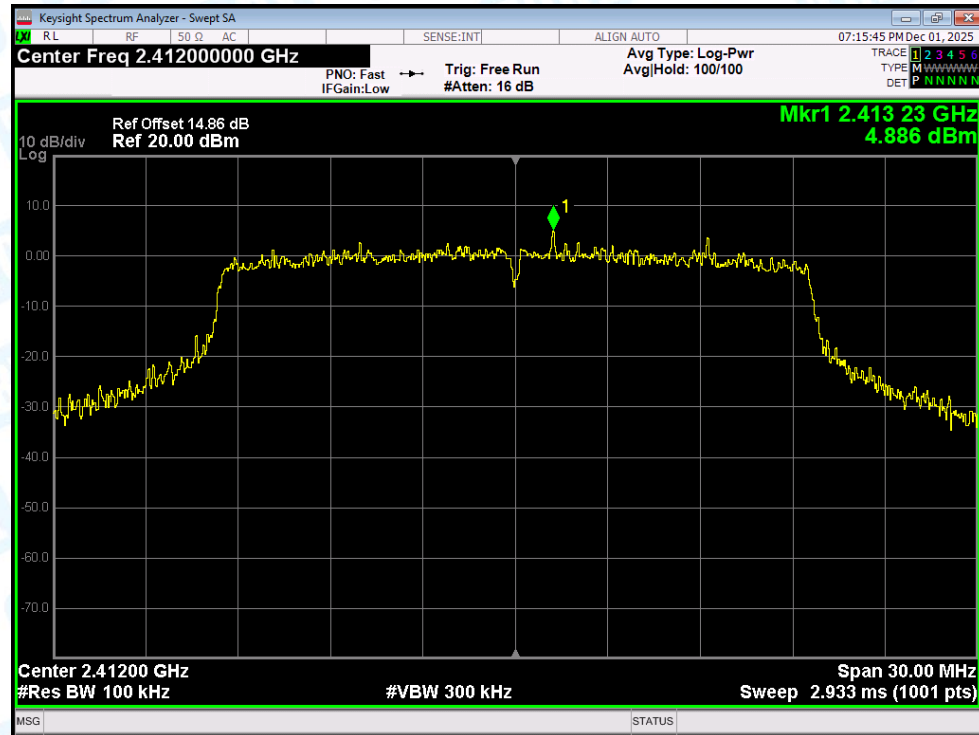


7. Conducted RF Spurious Emission

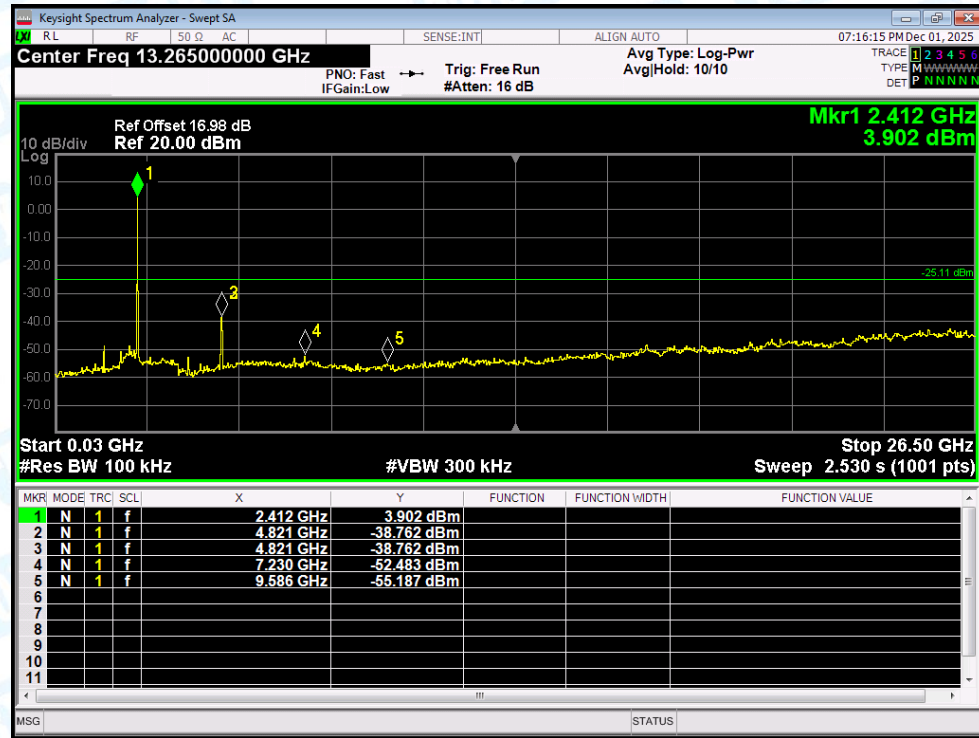
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	ax(VHT20)	2412	Ant1	-43.65	-30	Pass
NVNT	ax(VHT20)	2437	Ant1	-41.58	-30	Pass
NVNT	ax(VHT20)	2462	Ant1	-39.42	-30	Pass
NVNT	ax(VHT40)	2422	Ant1	-42.25	-30	Pass
NVNT	ax(VHT40)	2437	Ant1	-43.13	-30	Pass
NVNT	ax(VHT40)	2452	Ant1	-40.55	-30	Pass
NVNT	b	2412	Ant1	-35.12	-30	Pass
NVNT	b	2437	Ant1	-36.41	-30	Pass
NVNT	b	2462	Ant1	-36.38	-30	Pass
NVNT	g	2412	Ant1	-41.68	-30	Pass
NVNT	g	2437	Ant1	-41.93	-30	Pass
NVNT	g	2462	Ant1	-43.2	-30	Pass
NVNT	n(HT20)	2412	Ant1	-39.83	-30	Pass
NVNT	n(HT20)	2437	Ant1	-43.57	-30	Pass
NVNT	n(HT20)	2462	Ant1	-41.89	-30	Pass
NVNT	n(HT40)	2422	Ant1	-44.97	-30	Pass
NVNT	n(HT40)	2437	Ant1	-40.67	-30	Pass
NVNT	n(HT40)	2452	Ant1	-41.9	-30	Pass

Test Graphs

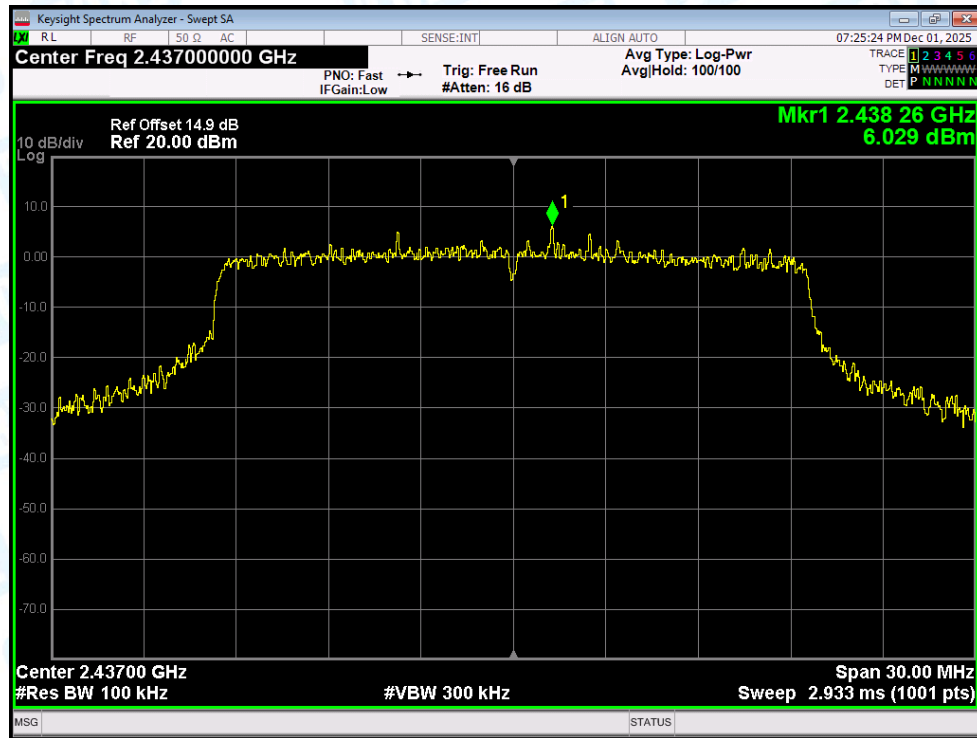
Tx. Spurious NVNT ax(VHT20) 2412MHz Ant1 Ref



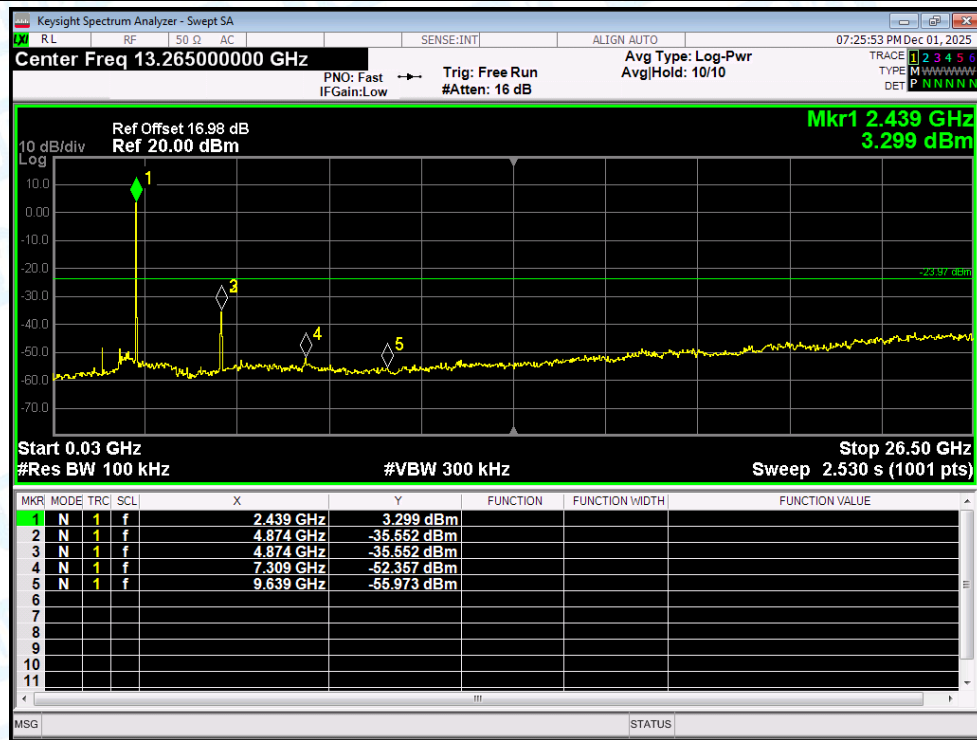
Tx. Spurious NVNT ax(VHT20) 2412MHz Ant1 Emission



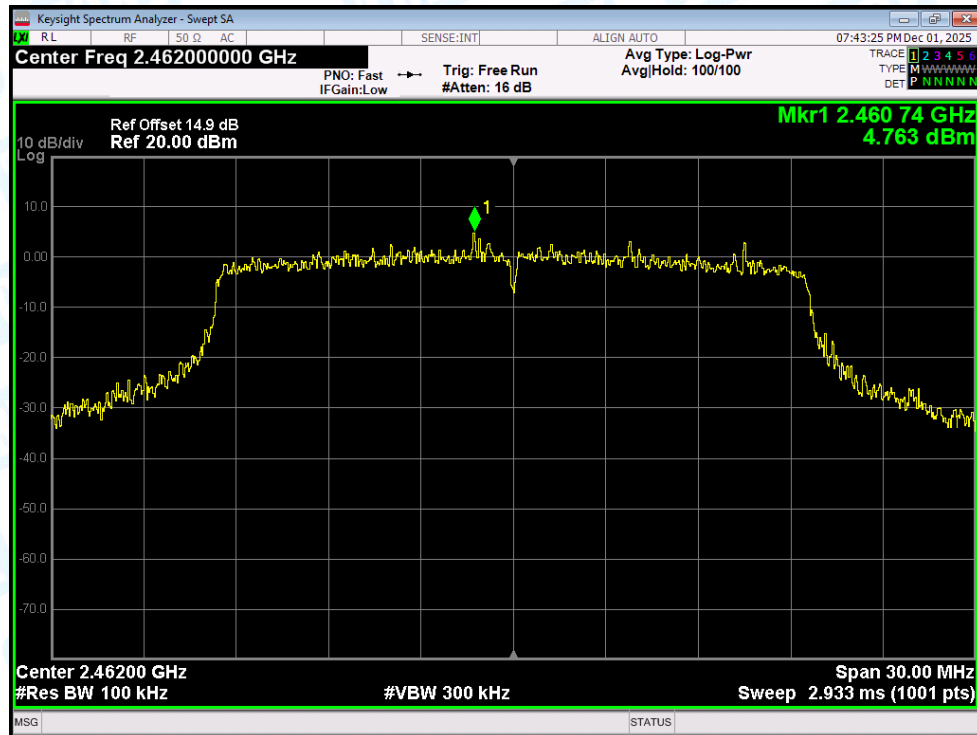
Tx. Spurious NVNT ax(VHT20) 2437MHz Ant1 Ref



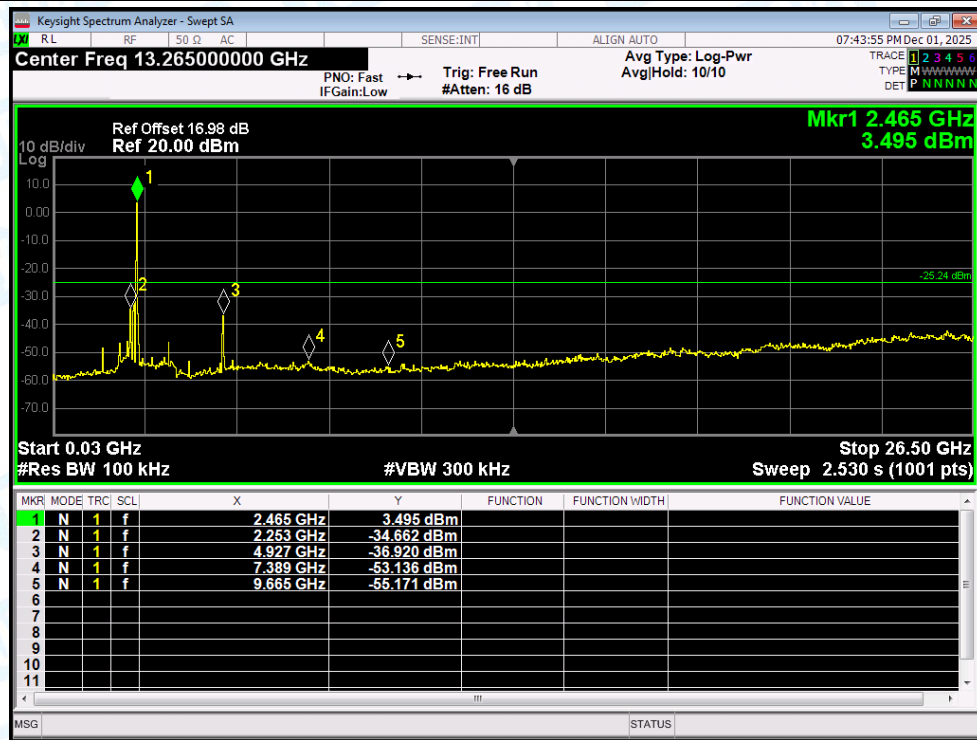
Tx. Spurious NVNT ax(VHT20) 2437MHz Ant1 Emission



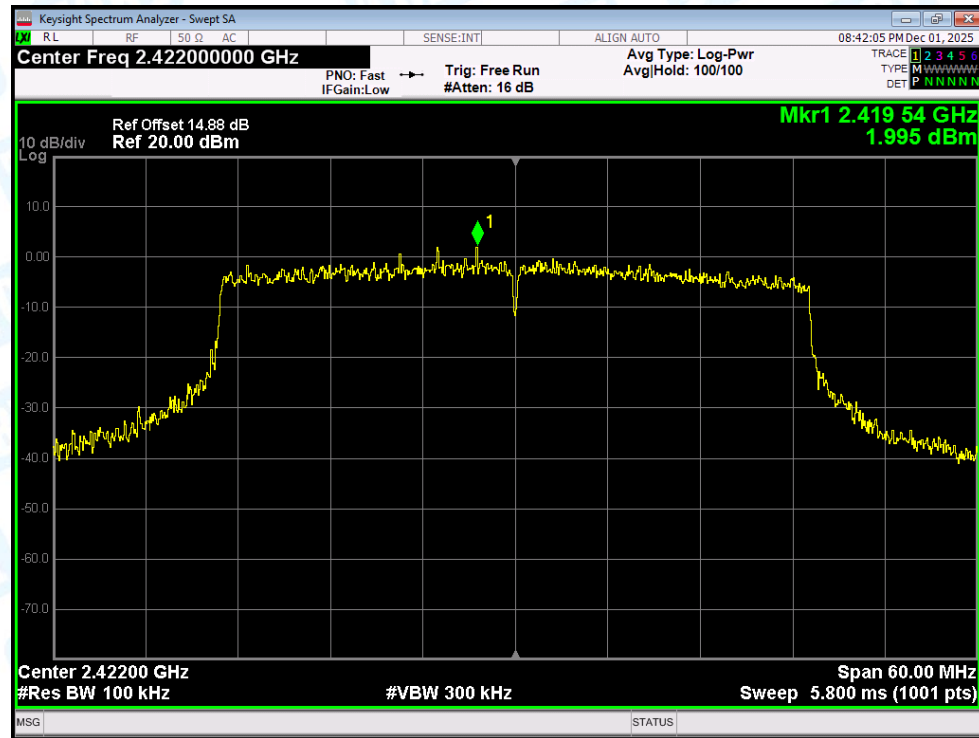
Tx. Spurious NVNT ax(VHT20) 2462MHz Ant1 Ref



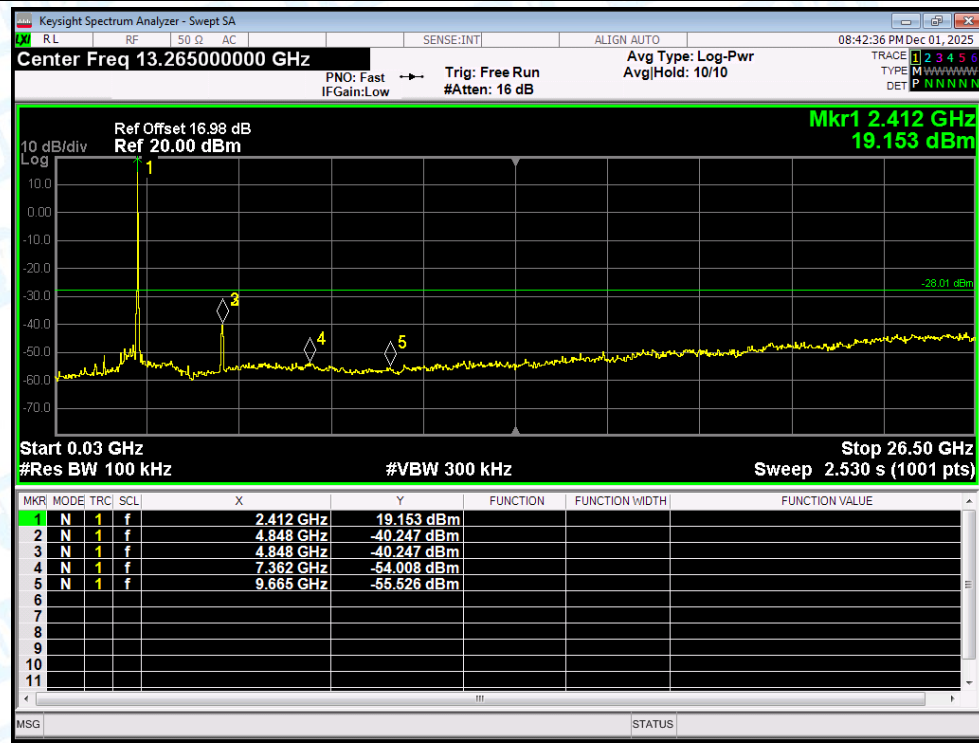
Tx. Spurious NVNT ax(VHT20) 2462MHz Ant1 Emission



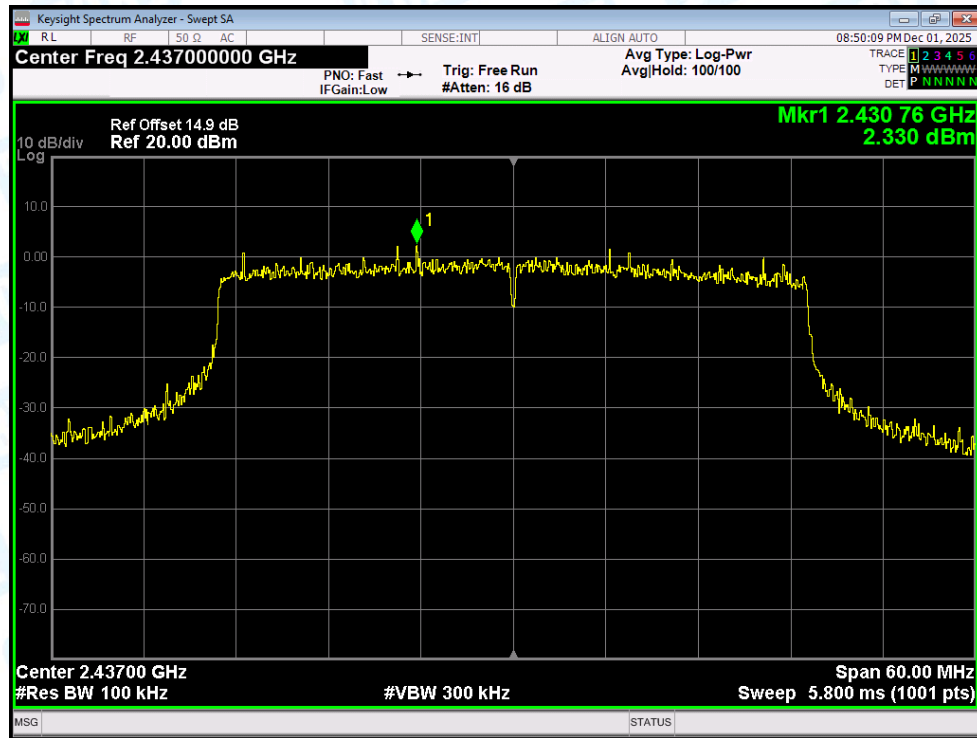
Tx. Spurious NVNT ax(VHT40) 2422MHz Ant1 Ref



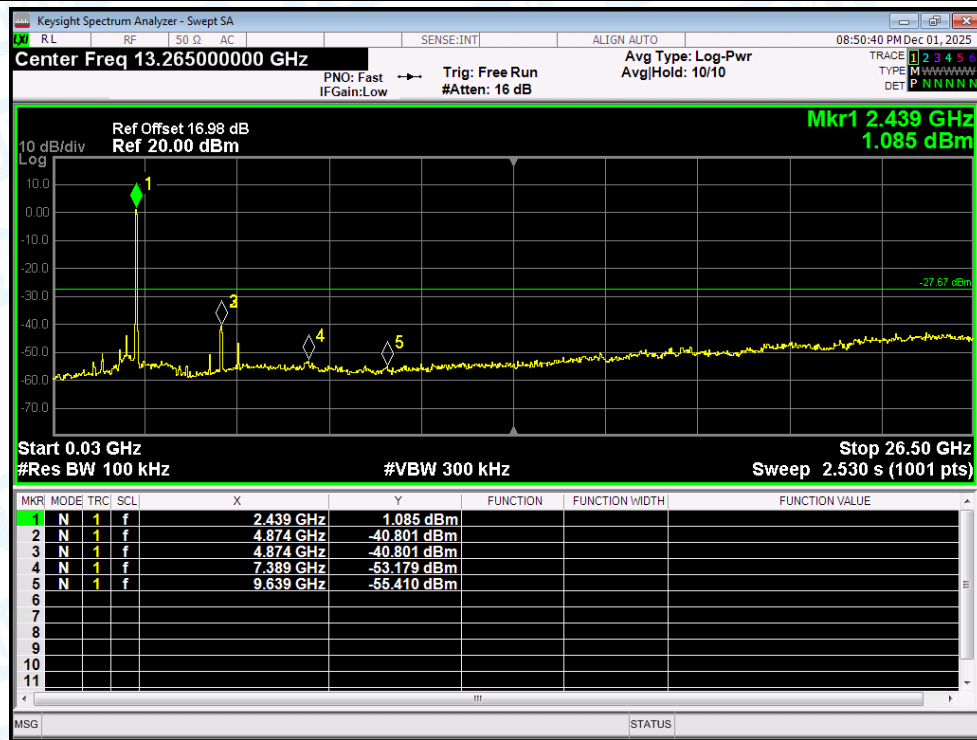
Tx. Spurious NVNT ax(VHT40) 2422MHz Ant1 Emission



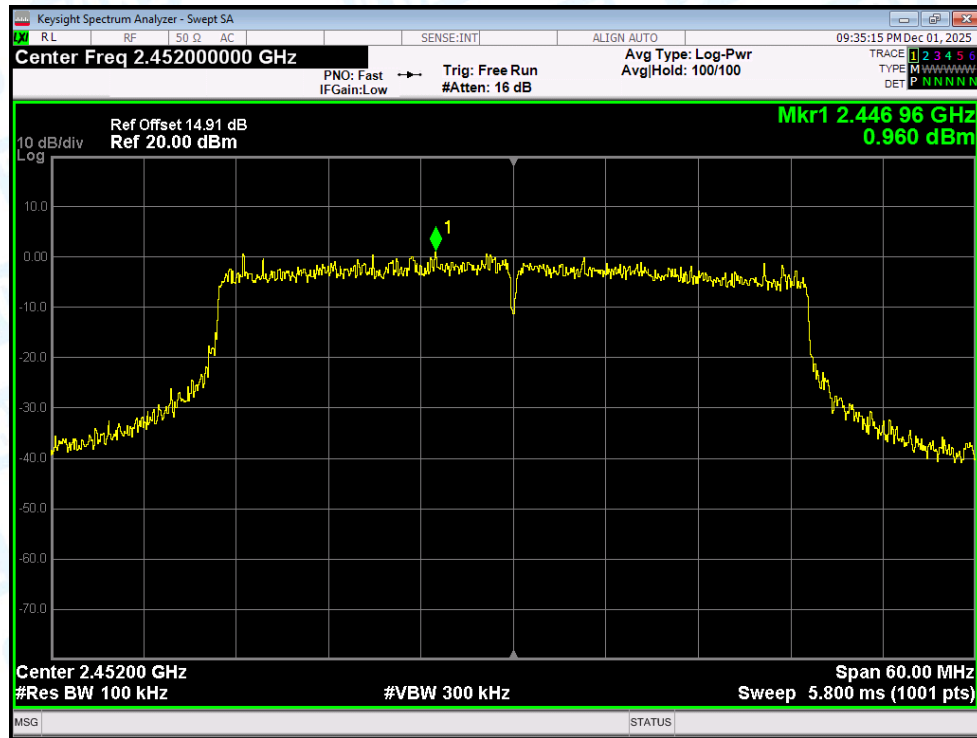
Tx. Spurious NVNT ax(VHT40) 2437MHz Ant1 Ref



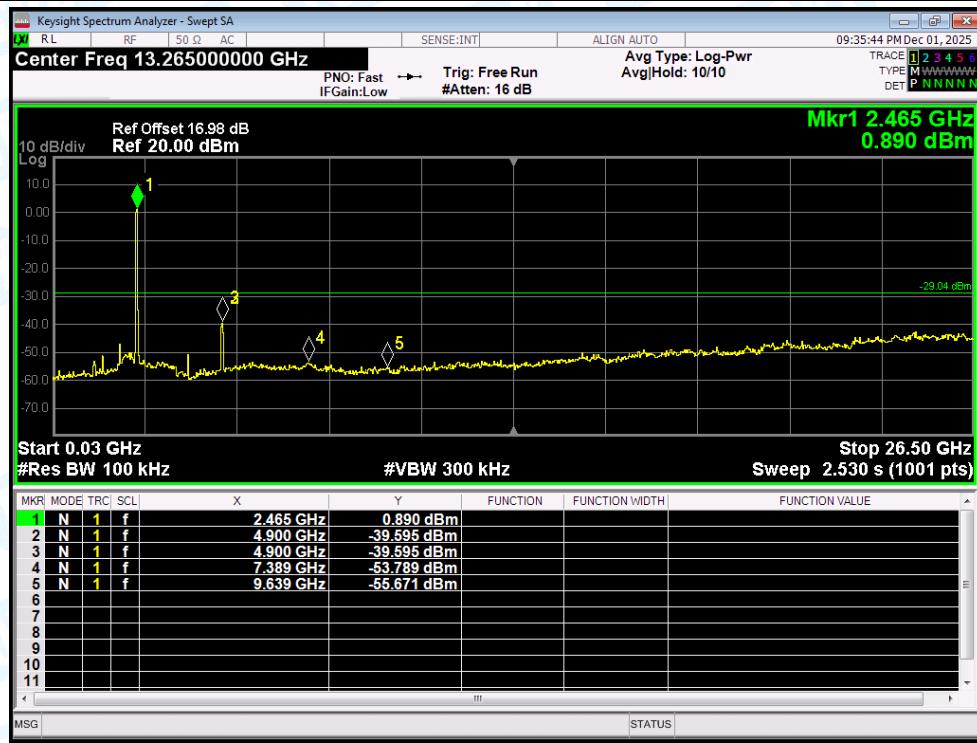
Tx. Spurious NVNT ax(VHT40) 2437MHz Ant1 Emission



Tx. Spurious NVNT ax(VHT40) 2452MHz Ant1 Ref



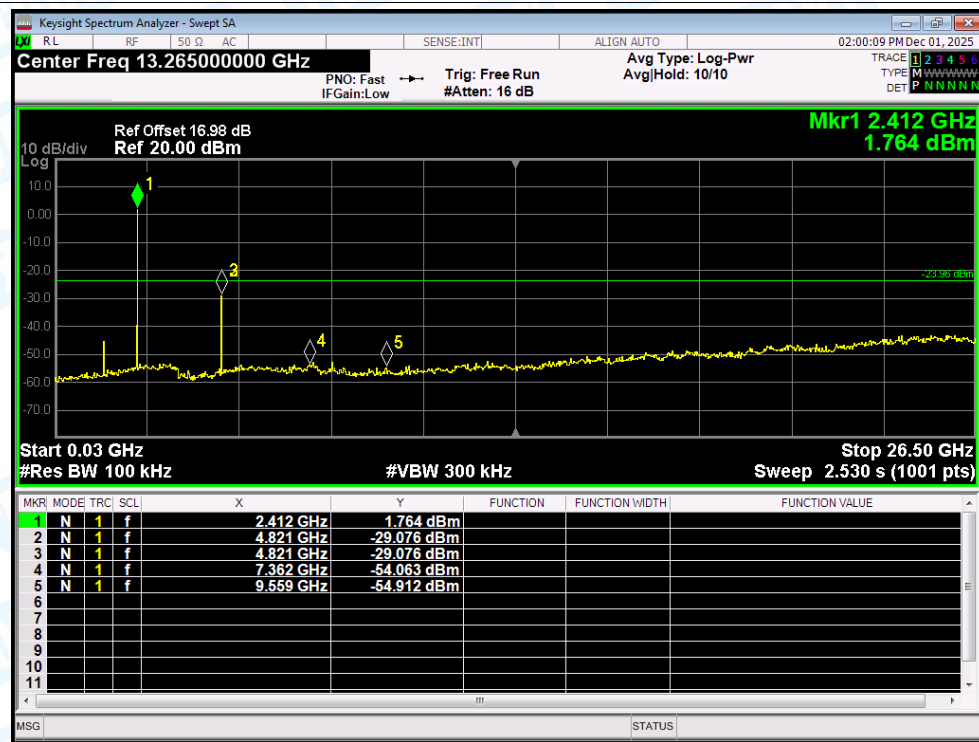
Tx. Spurious NVNT ax(VHT40) 2452MHz Ant1 Emission



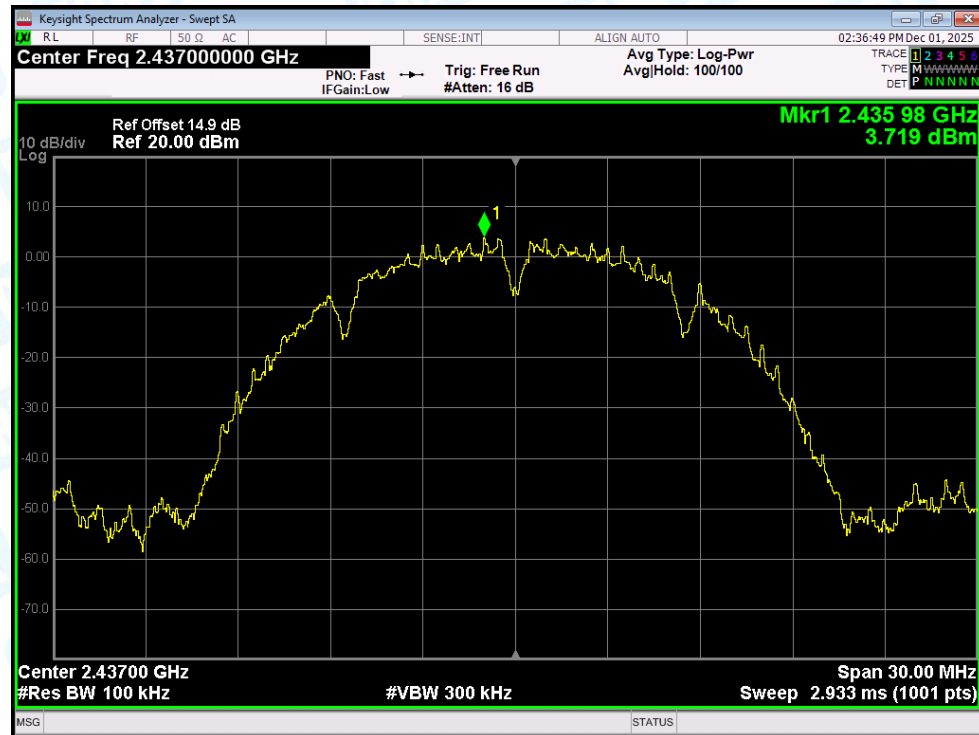
Tx. Spurious NVNT b 2412MHz Ant1 Ref



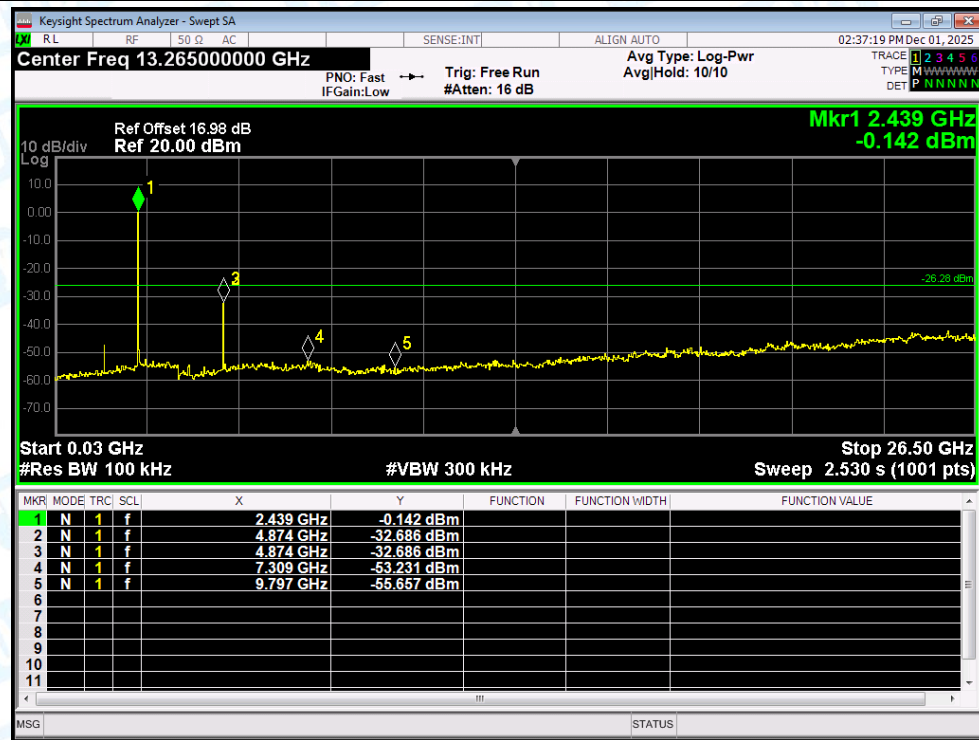
Tx. Spurious NVNT b 2412MHz Ant1 Emission



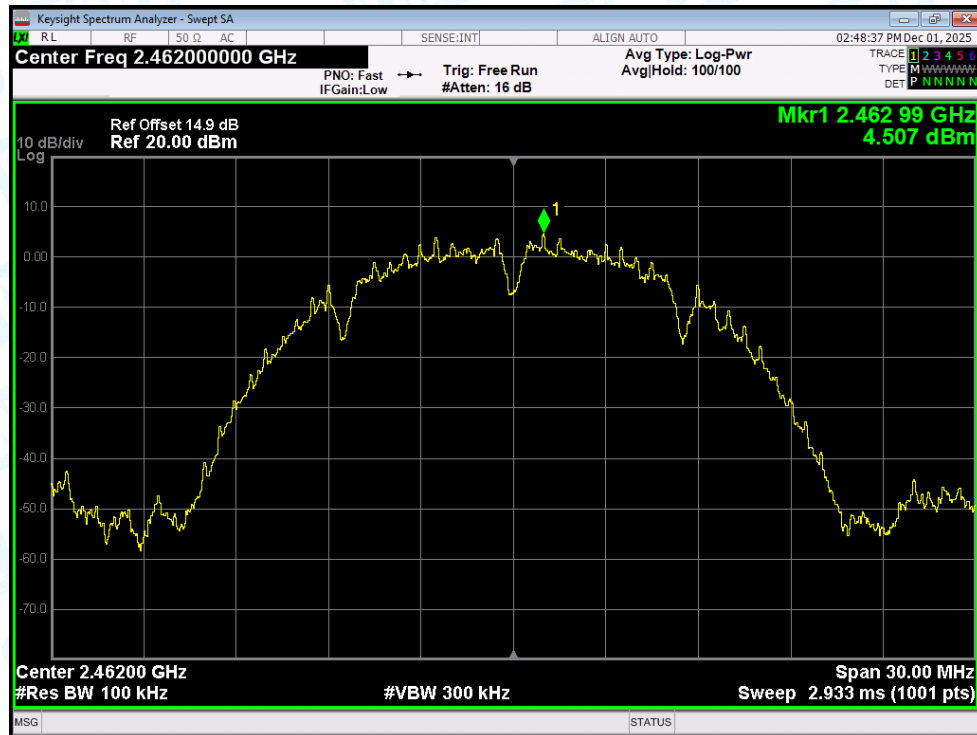
Tx. Spurious NVNT b 2437MHz Ant1 Ref



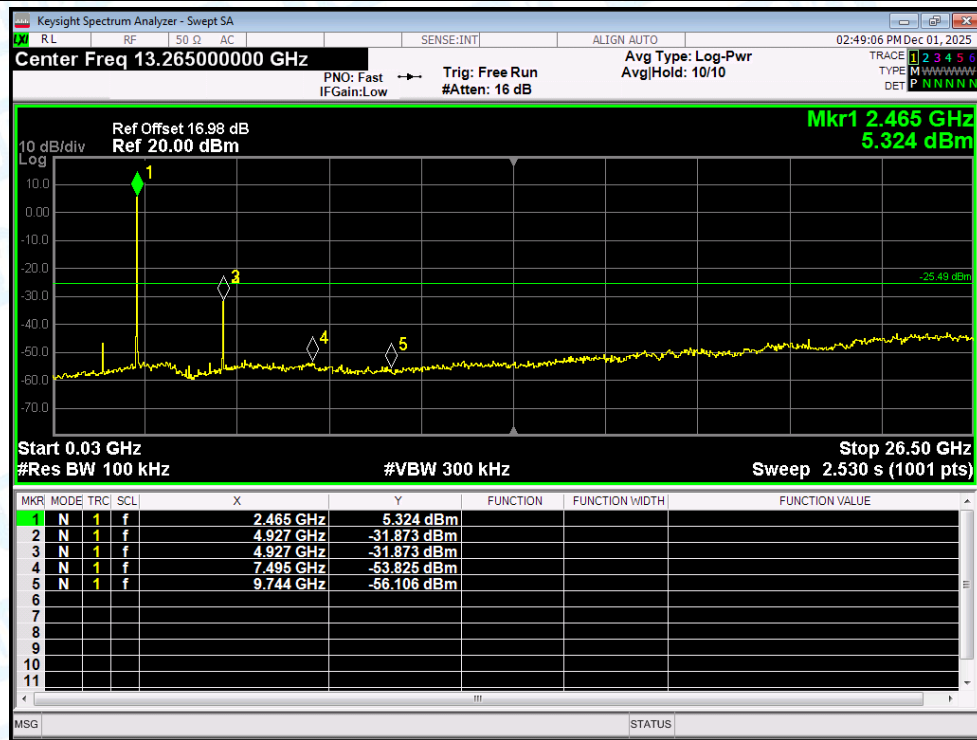
Tx. Spurious NVNT b 2437MHz Ant1 Emission



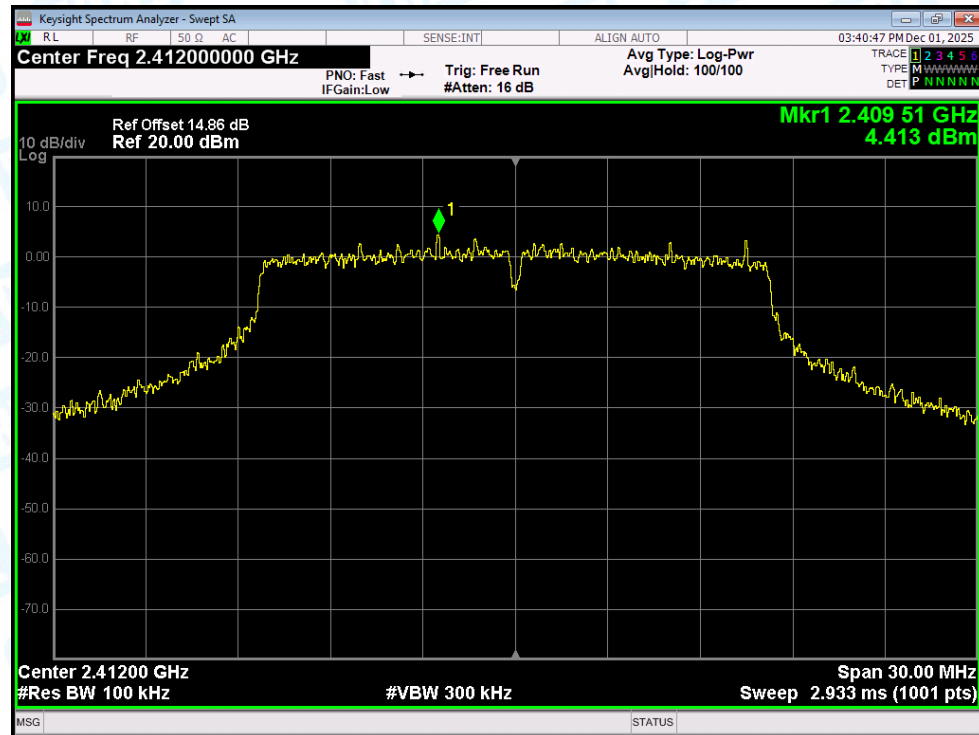
Tx. Spurious NVNT b 2462MHz Ant1 Ref



Tx. Spurious NVNT b 2462MHz Ant1 Emission



Tx. Spurious NVNT g 2412MHz Ant1 Ref



Tx. Spurious NVNT g 2412MHz Ant1 Emission

