

RF Test Data for 2.4G WiFi (Conducted Measurements)

General Description of EUT	
Product Name:	Portable Digital Poster Screen
Test Model:	MWE-CS06
Sample ID:	HC-C-202504-0220-01-2#
Environmental Conditions	
Temperature:	24.2℃
Relative Humidity:	50%
Test Voltage:	DC 5V
Test Engineer:	Gold Zhang
Note: For a more detailed features description, please refer to the report TBR-C-202504-0220-5 The report only show the worst case data.	

Contents

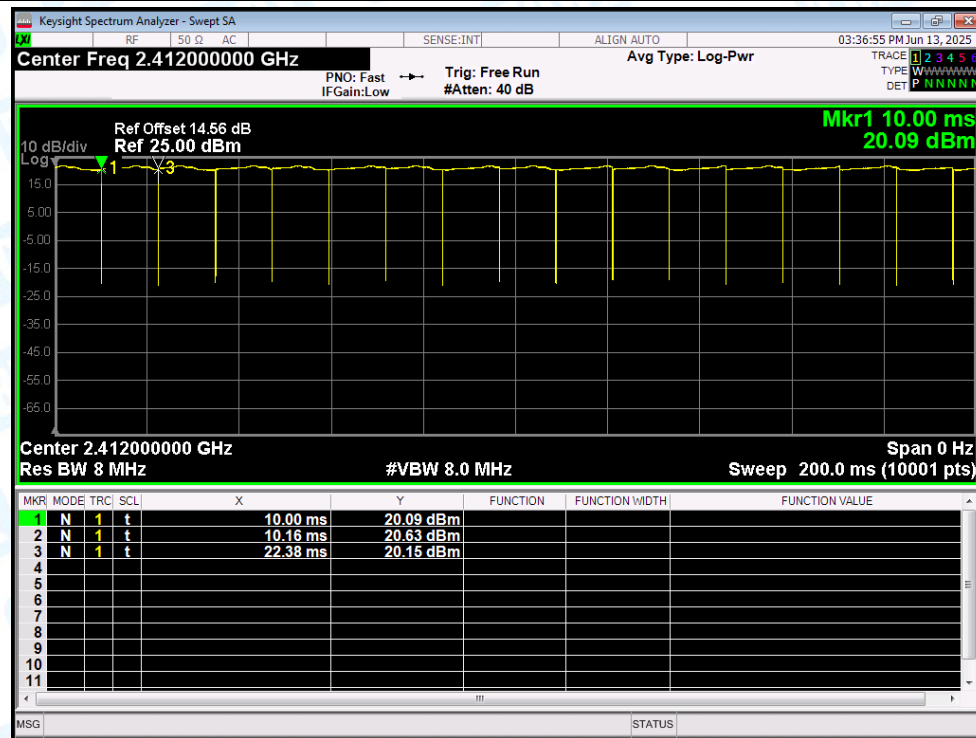
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1. Duty Cycle

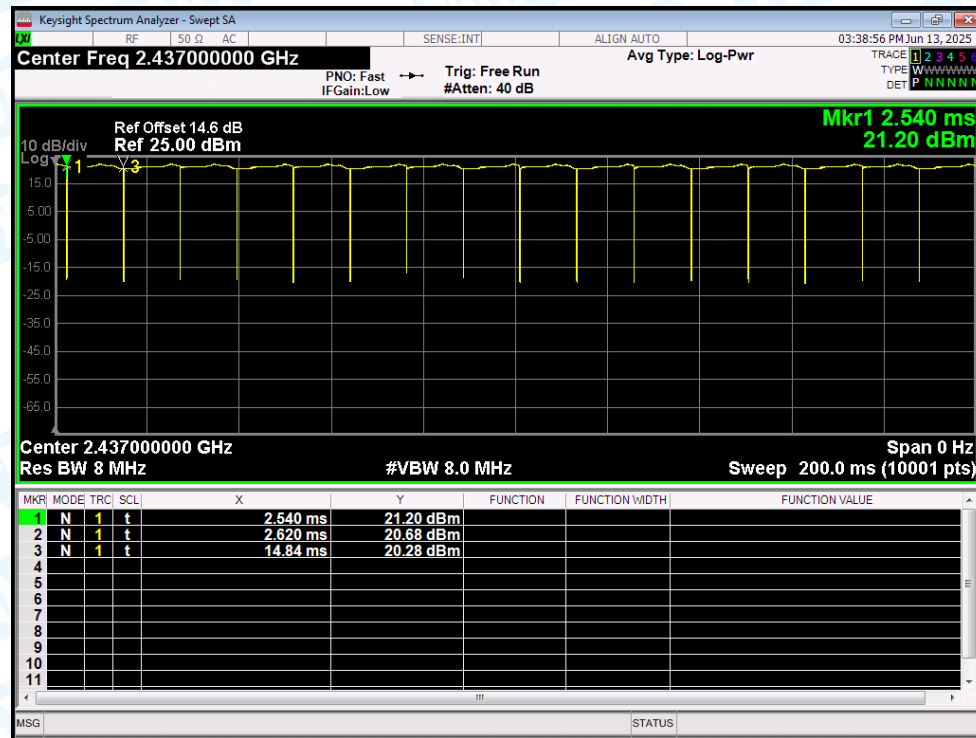
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	98.71	0.06	0.08
NVNT	b	2437	Ant1	99.35	0.03	0.08
NVNT	b	2462	Ant1	98.71	0.06	0.08
NVNT	g	2412	Ant1	98.08	0.08	0.49
NVNT	g	2437	Ant1	95.33	0.21	0.49
NVNT	g	2462	Ant1	94.44	0.25	0.49
NVNT	n(HT20)	2412	Ant1	95.92	0.18	0.53
NVNT	n(HT20)	2437	Ant1	94.97	0.22	0.53
NVNT	n(HT20)	2462	Ant1	93.14	0.31	0.53
NVNT	n(HT40)	2422	Ant1	87.04	0.6	1.06
NVNT	n(HT40)	2437	Ant1	88.68	0.52	1.06
NVNT	n(HT40)	2452	Ant1	88.46	0.53	1.09

Test Graphs

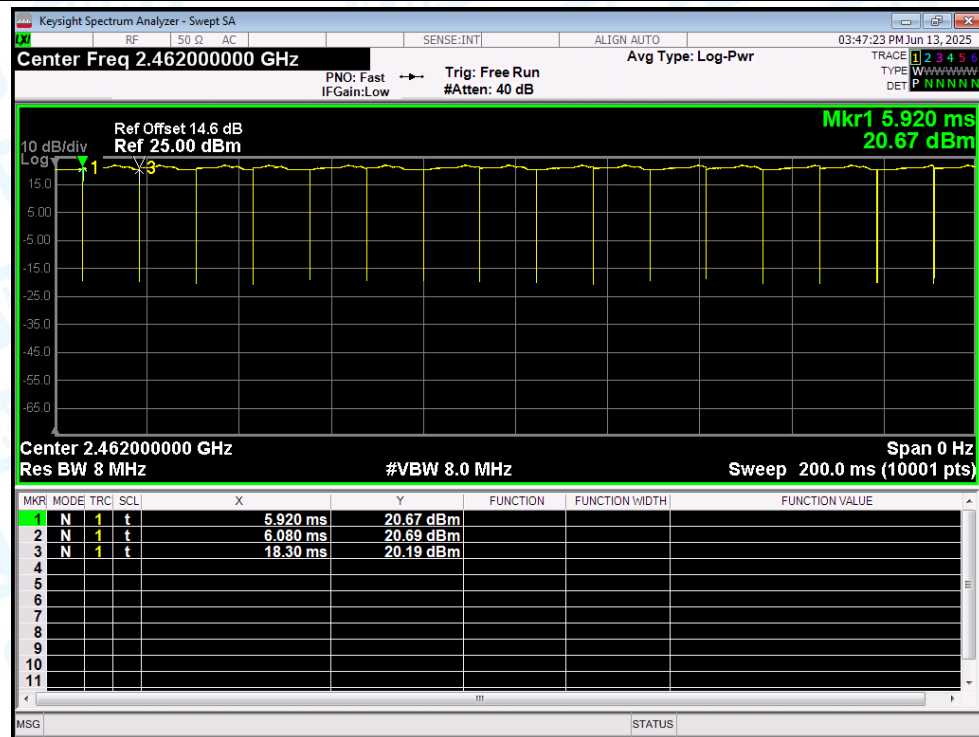
Duty Cycle NVNT b 2412MHz Ant1



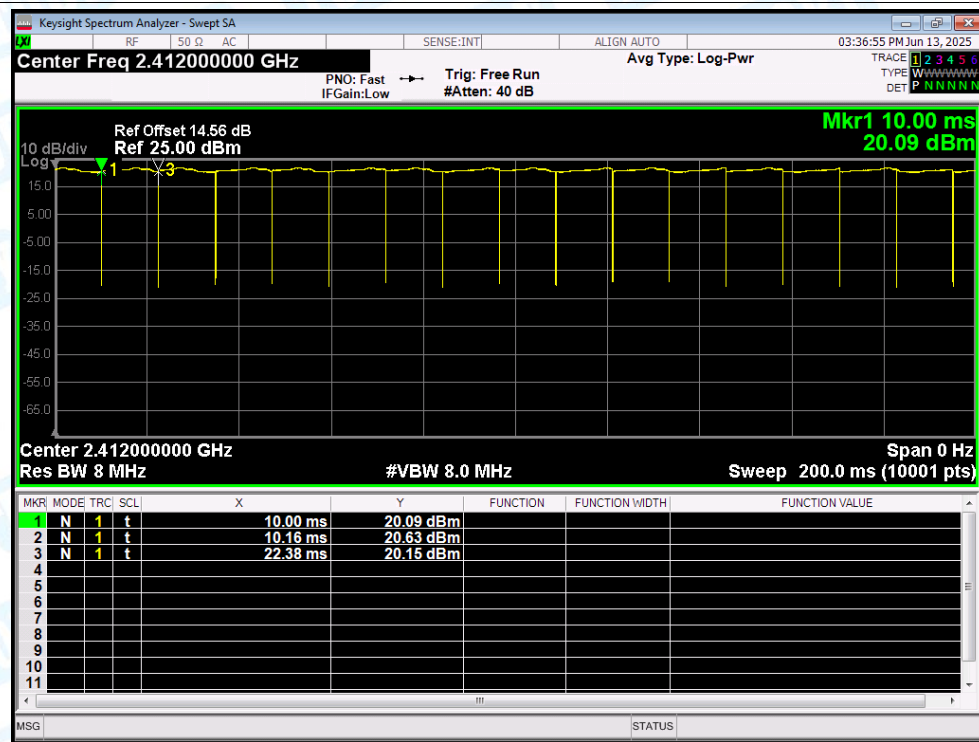
Duty Cycle NVNT b 2437MHz Ant1



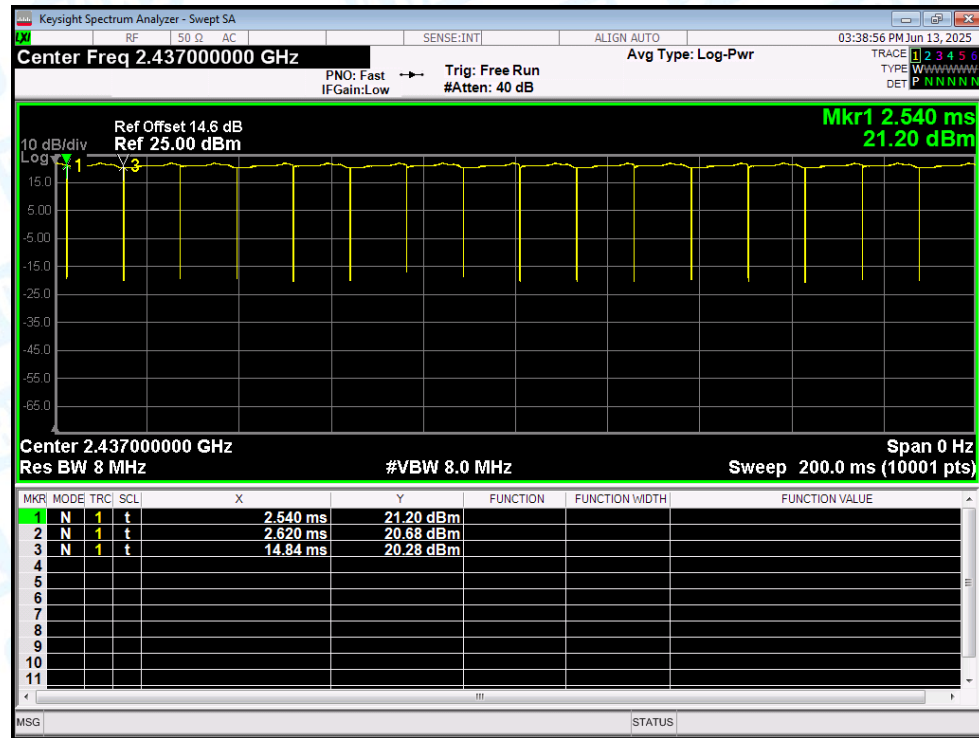
Duty Cycle NVNT b 2462MHz Ant1



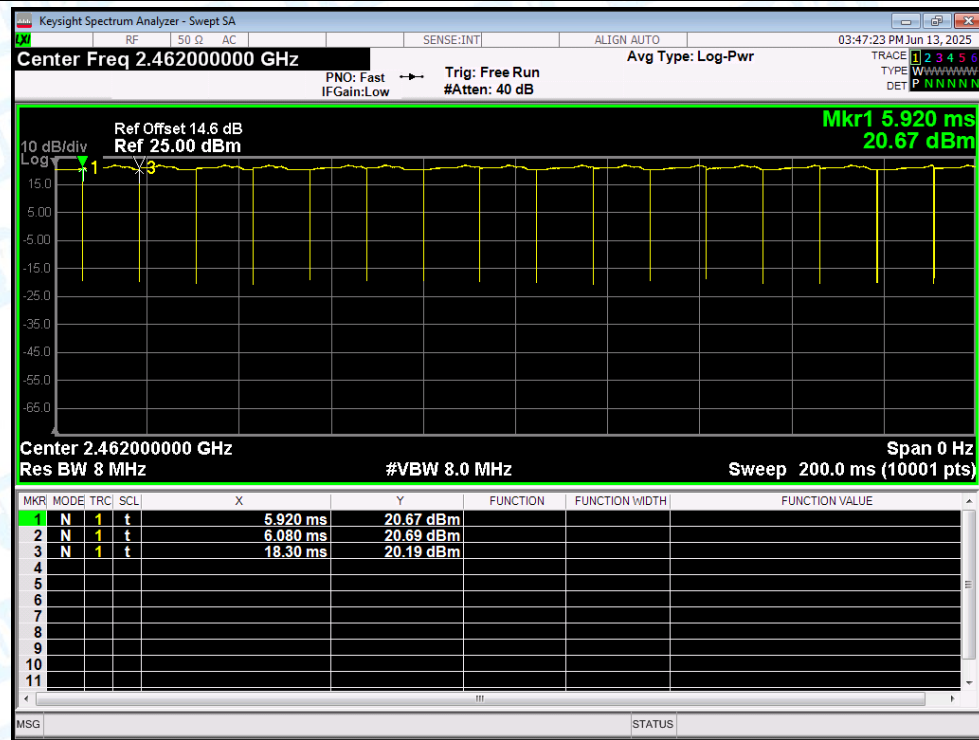
Duty Cycle NVNT b 2412MHz Ant1



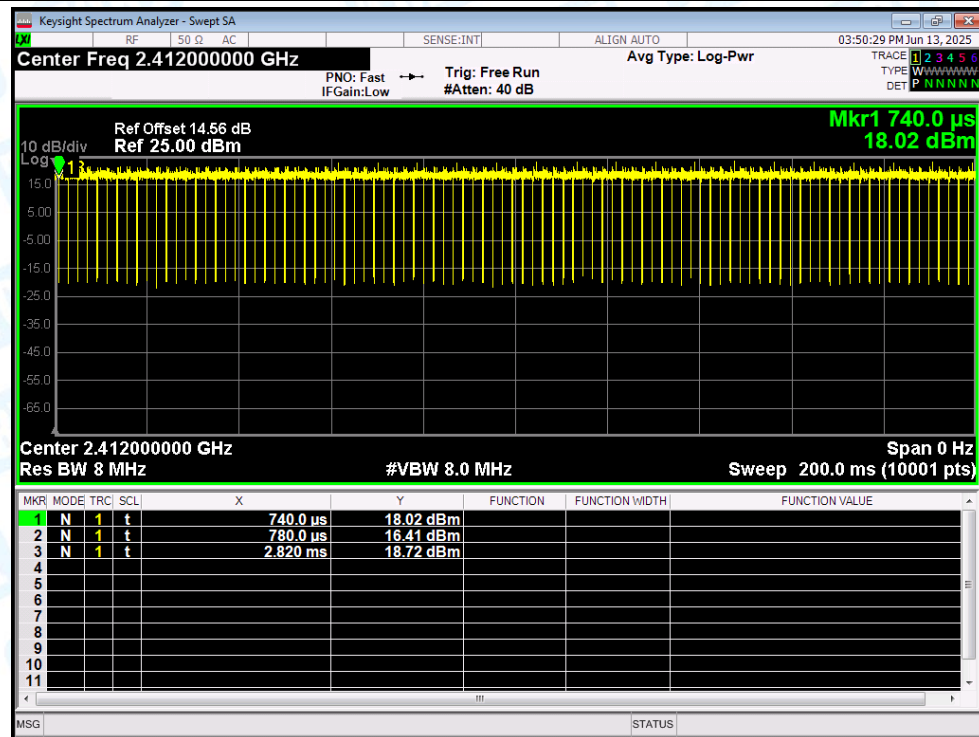
Duty Cycle NVNT b 2437MHz Ant1



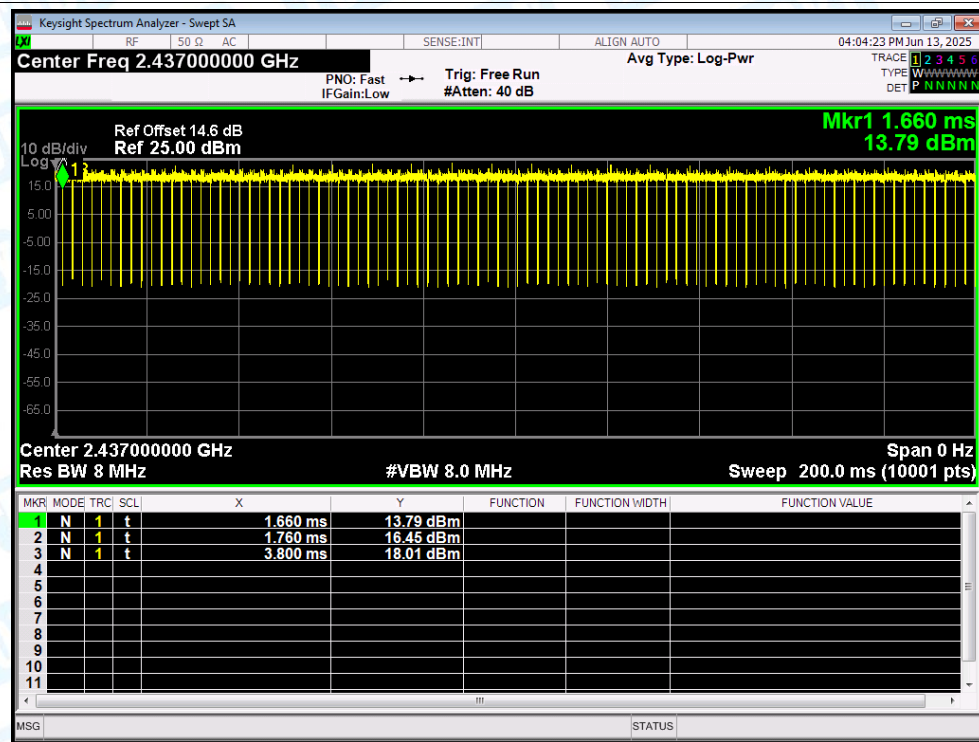
Duty Cycle NVNT b 2462MHz Ant1



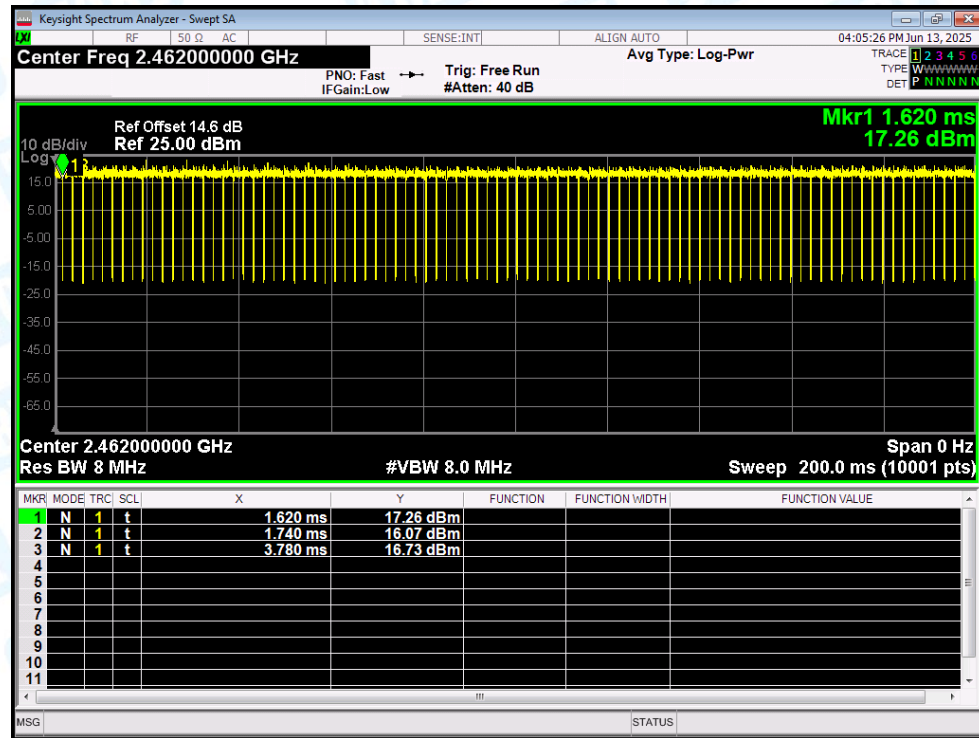
Duty Cycle NVNT g 2412MHz Ant1



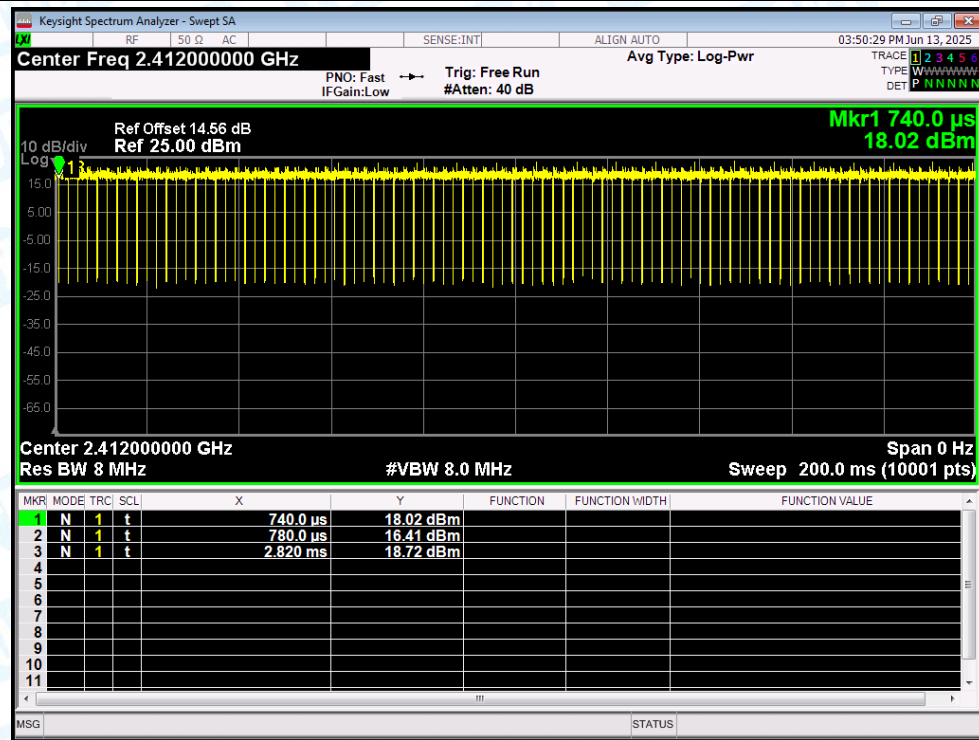
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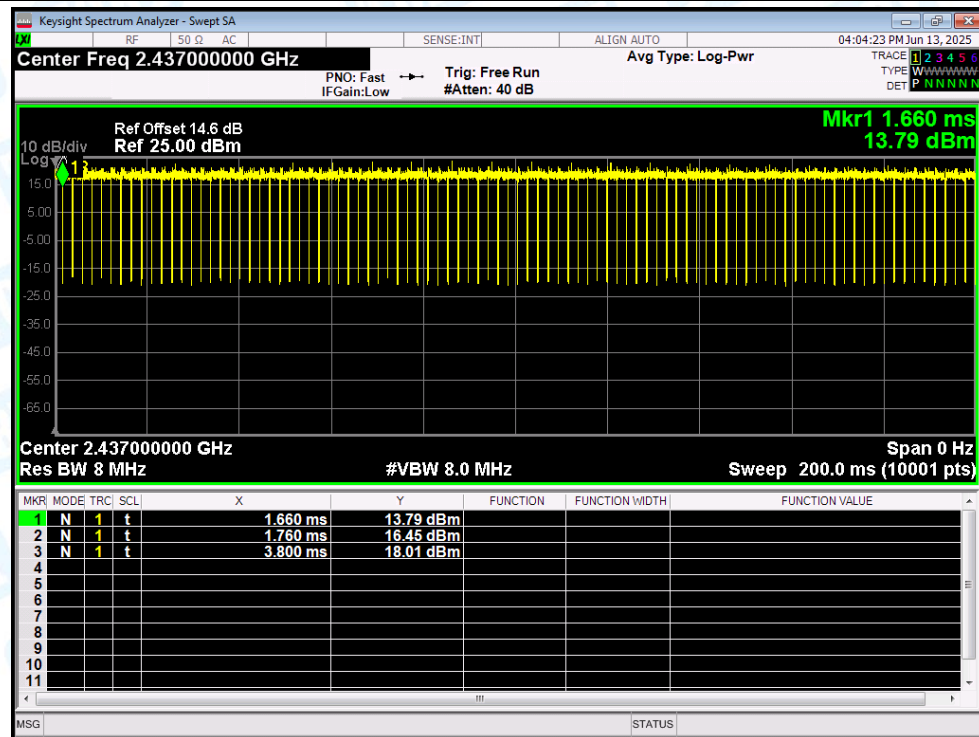
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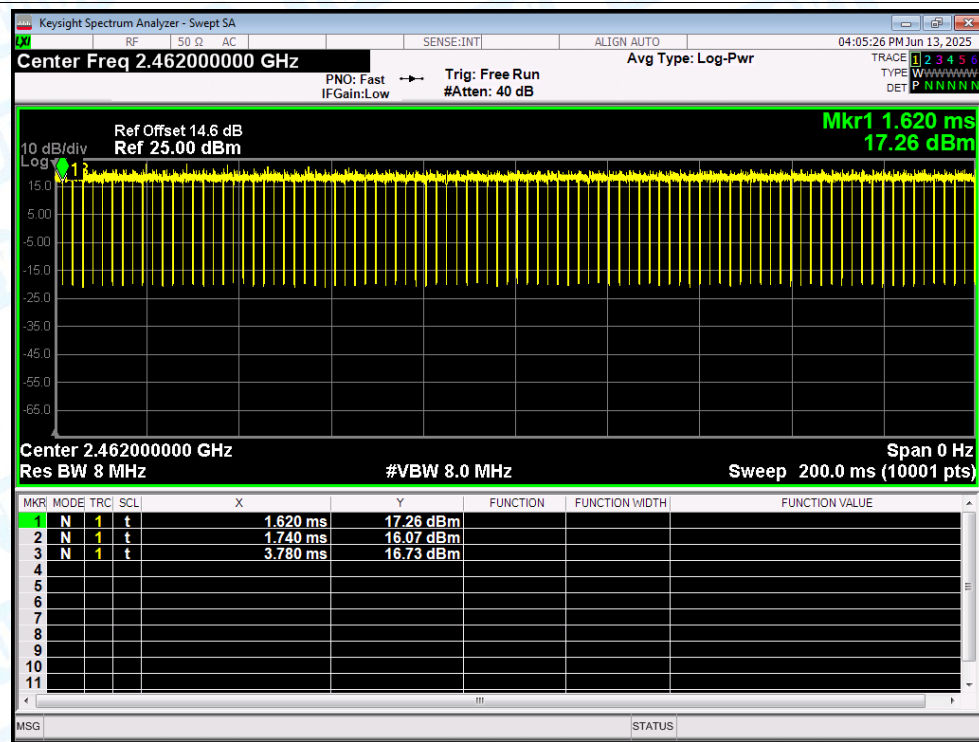
Duty Cycle NVNT g 2412MHz Ant1



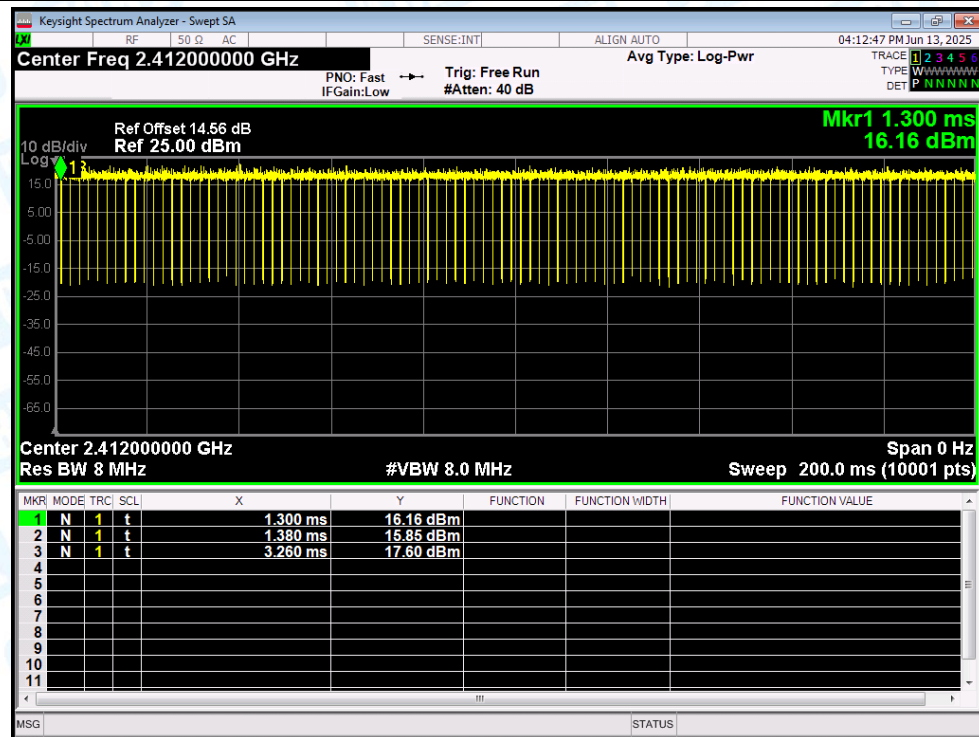
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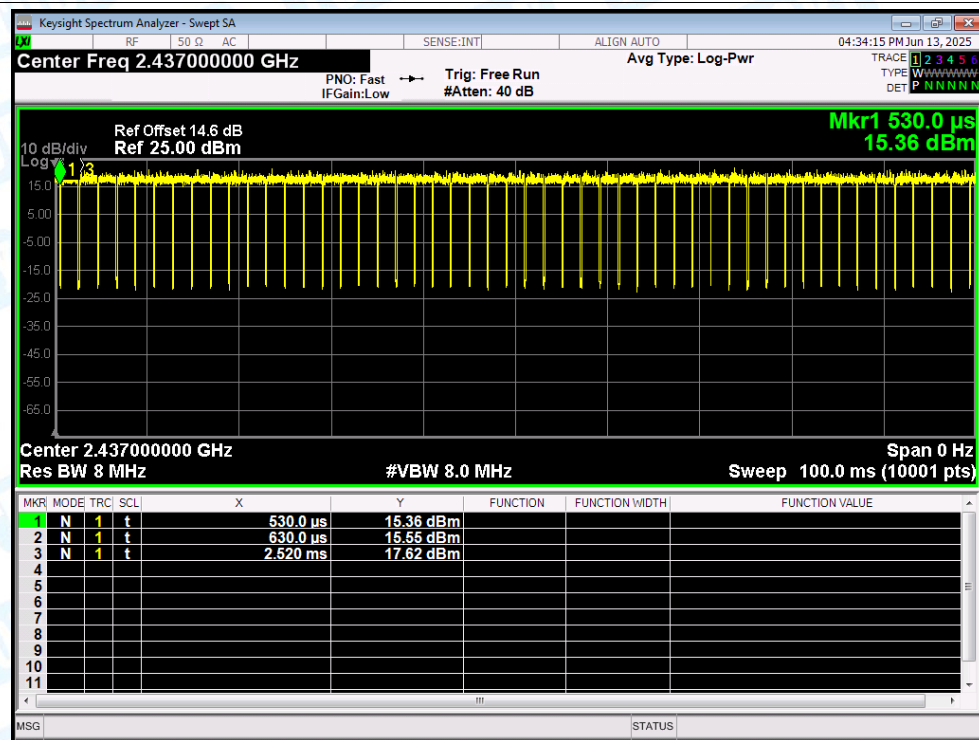
Duty Cycle NVNT g 2462MHz Ant1



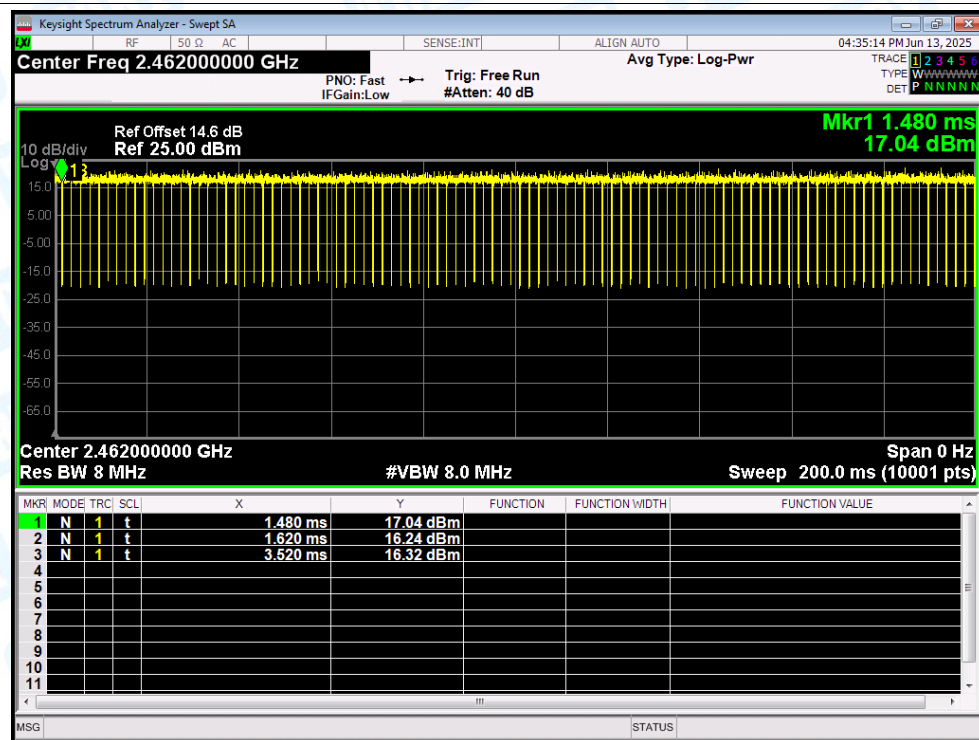
Duty Cycle NVNT n(HT20) 2412MHz Ant1



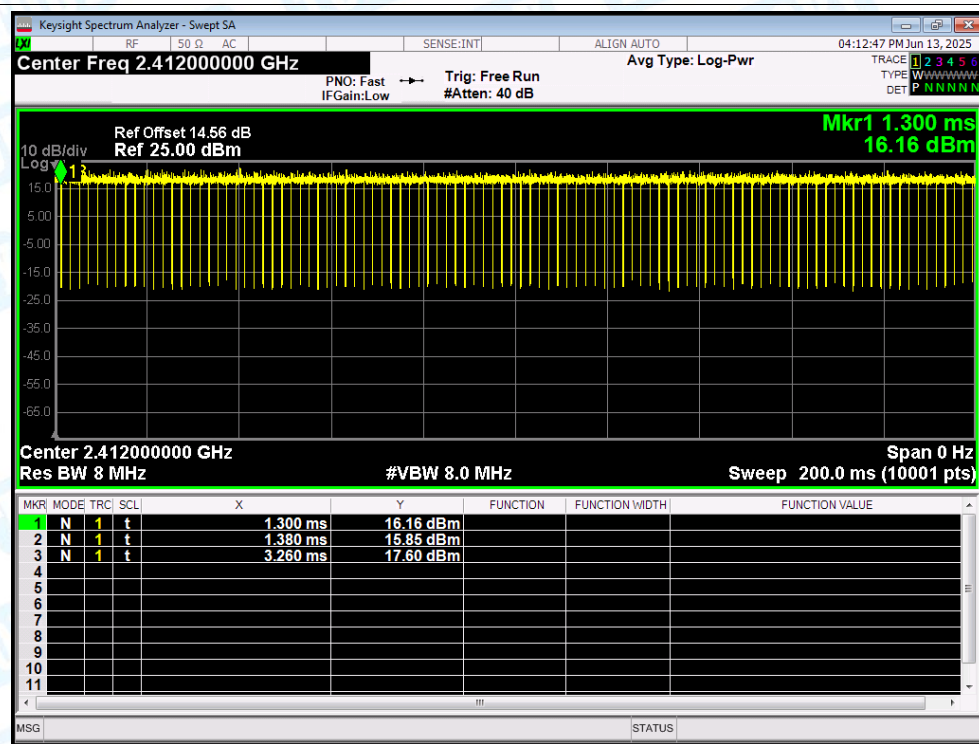
Duty Cycle NVNT n(HT20) 2437MHz Ant1



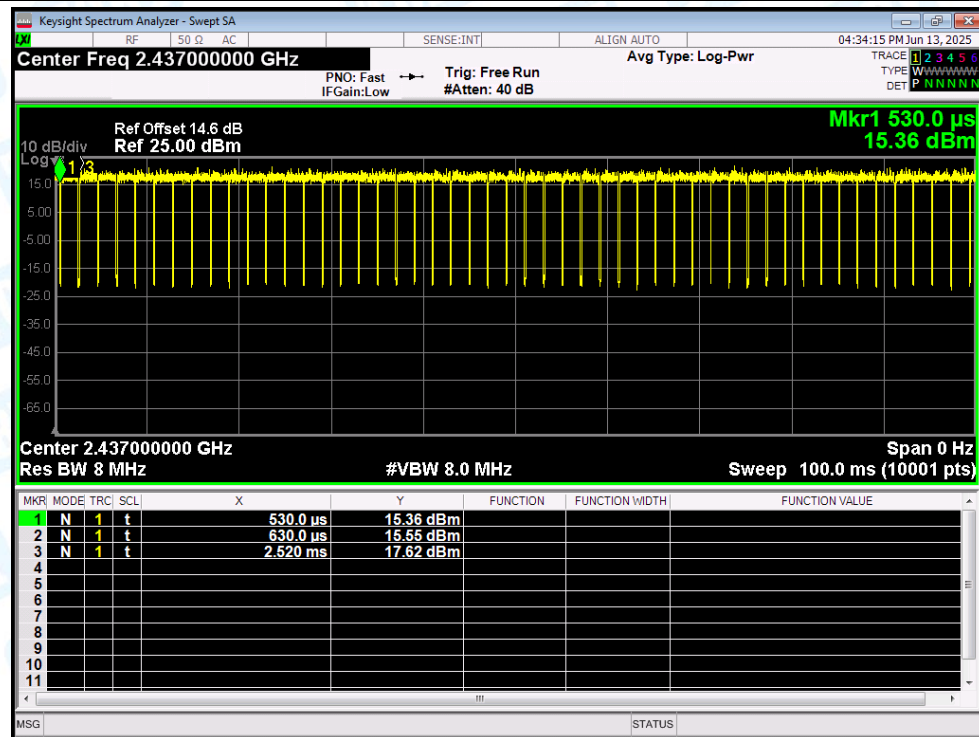
Duty Cycle NVNT n(HT20) 2462MHz Ant1



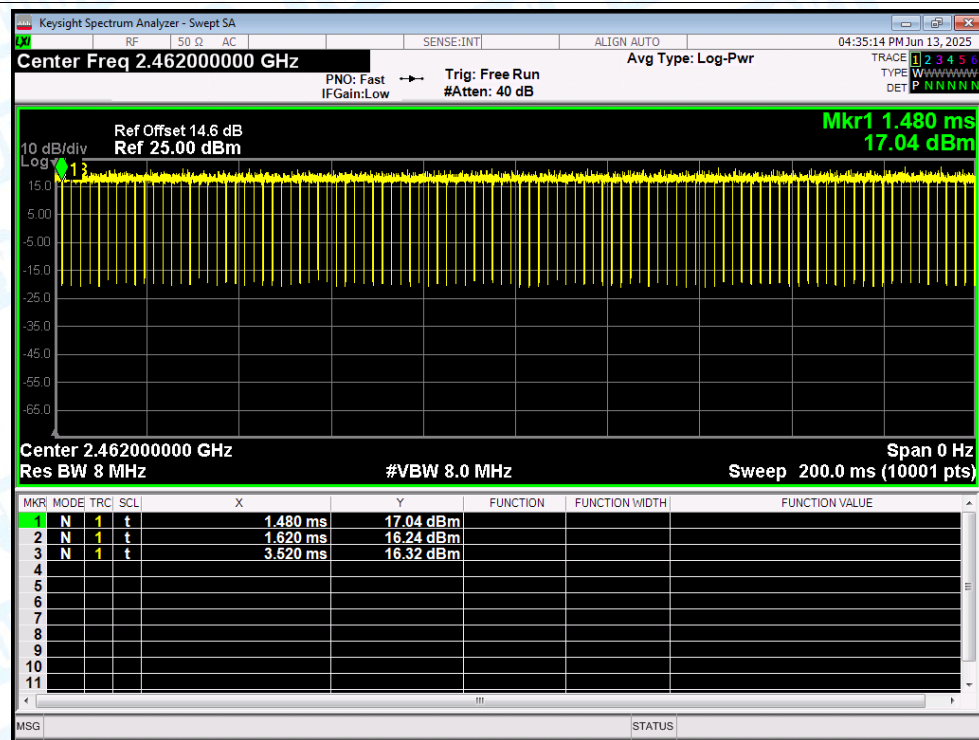
Duty Cycle NVNT n(HT20) 2412MHz Ant1



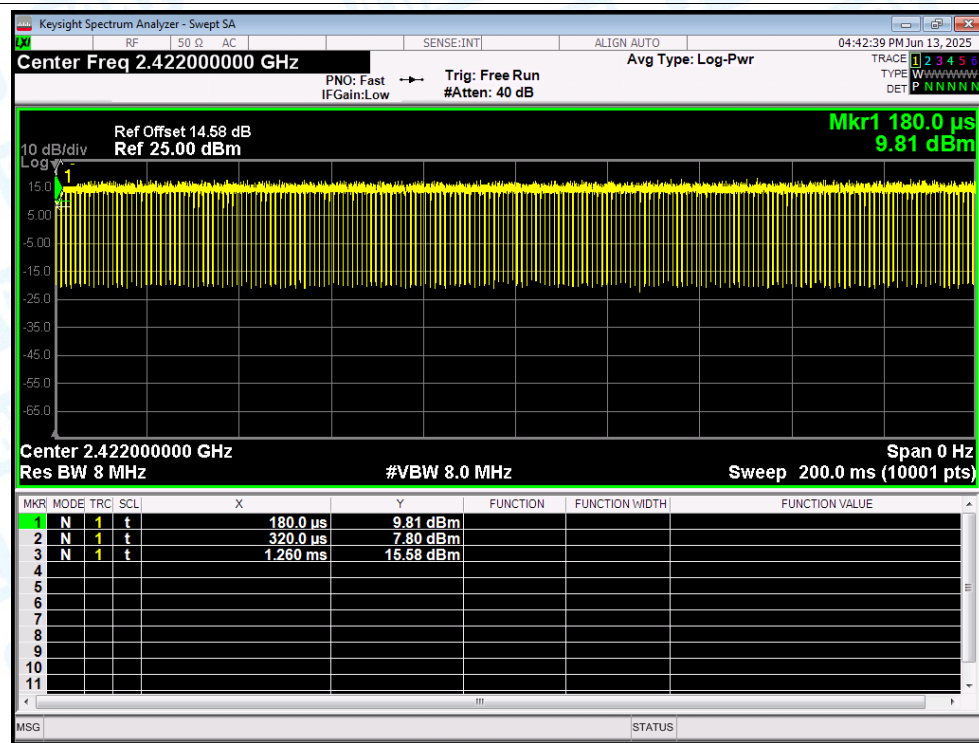
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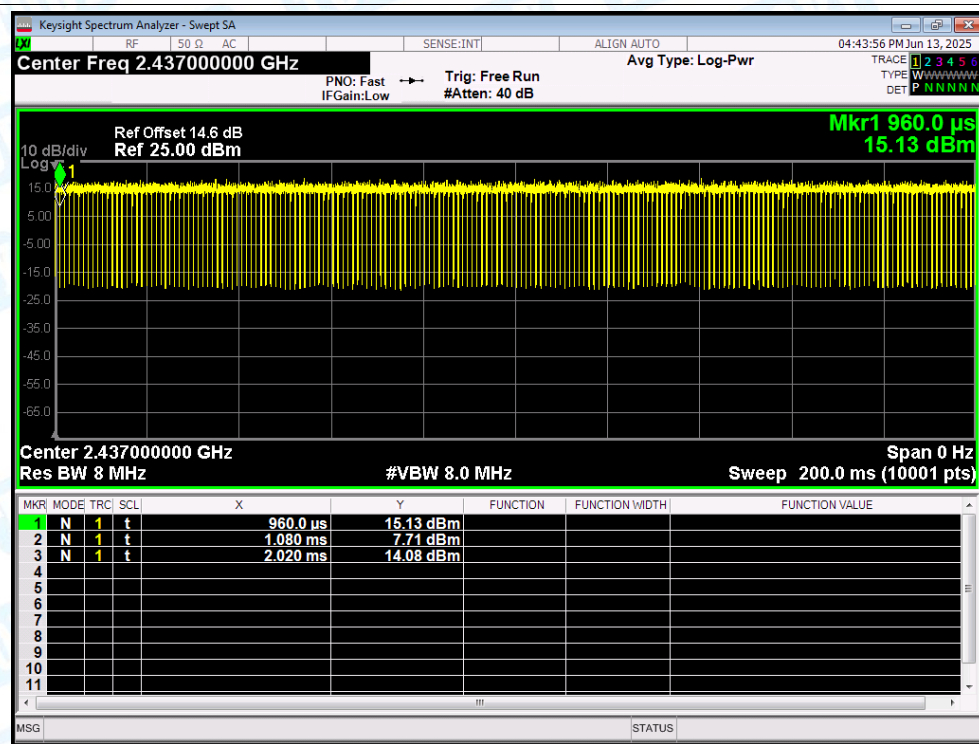
Duty Cycle NVNT n(HT20) 2462MHz Ant1



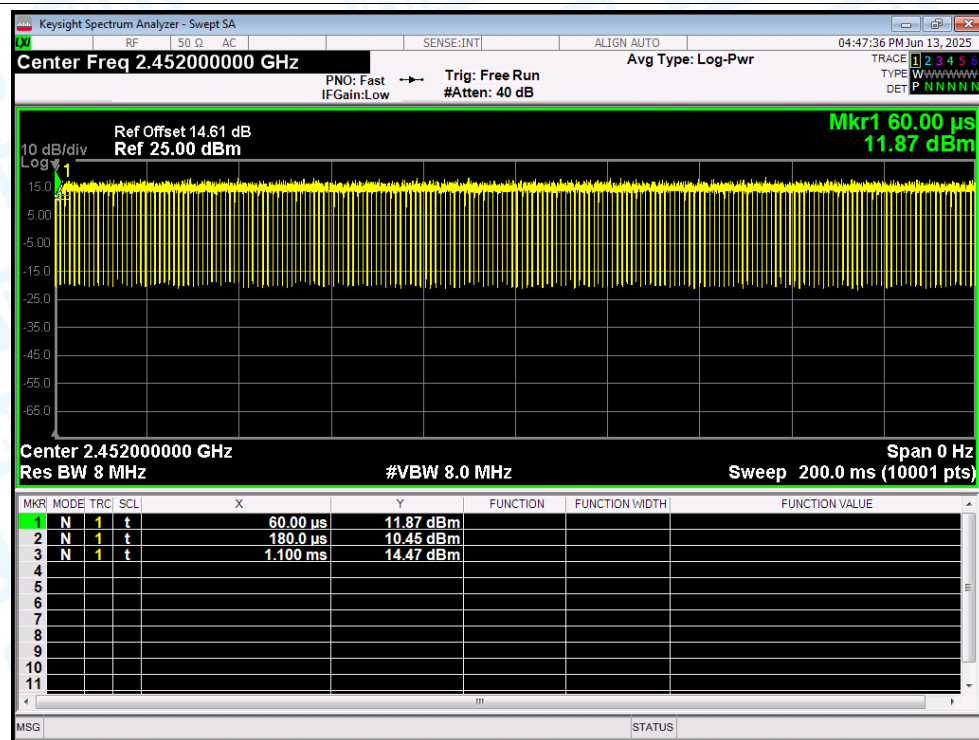
Duty Cycle NVNT n(HT40) 2422MHz Ant1



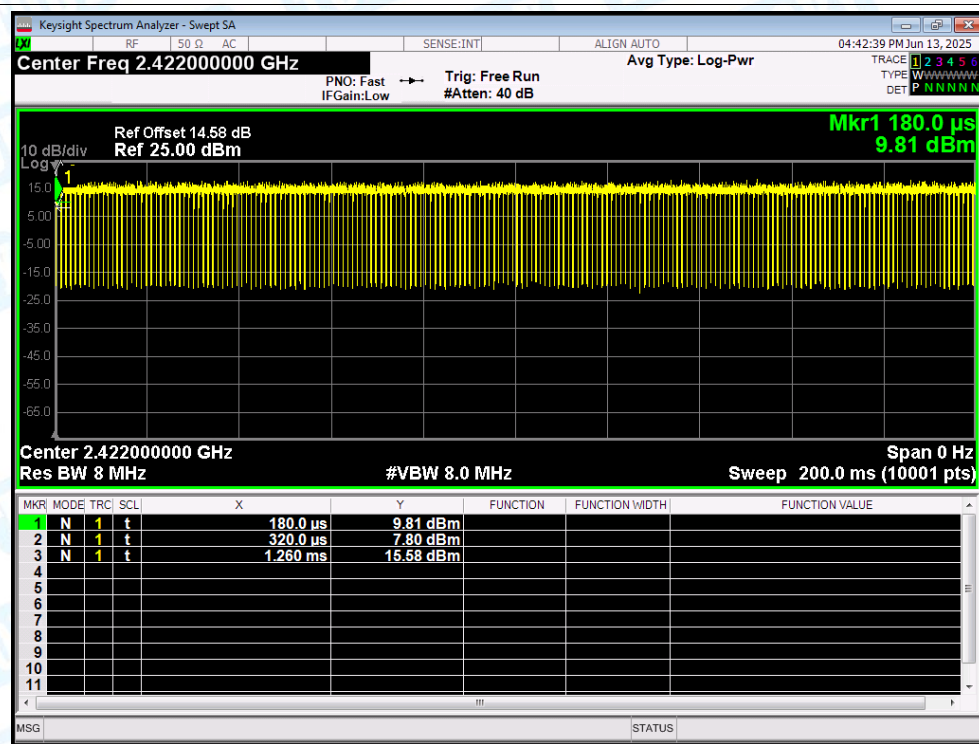
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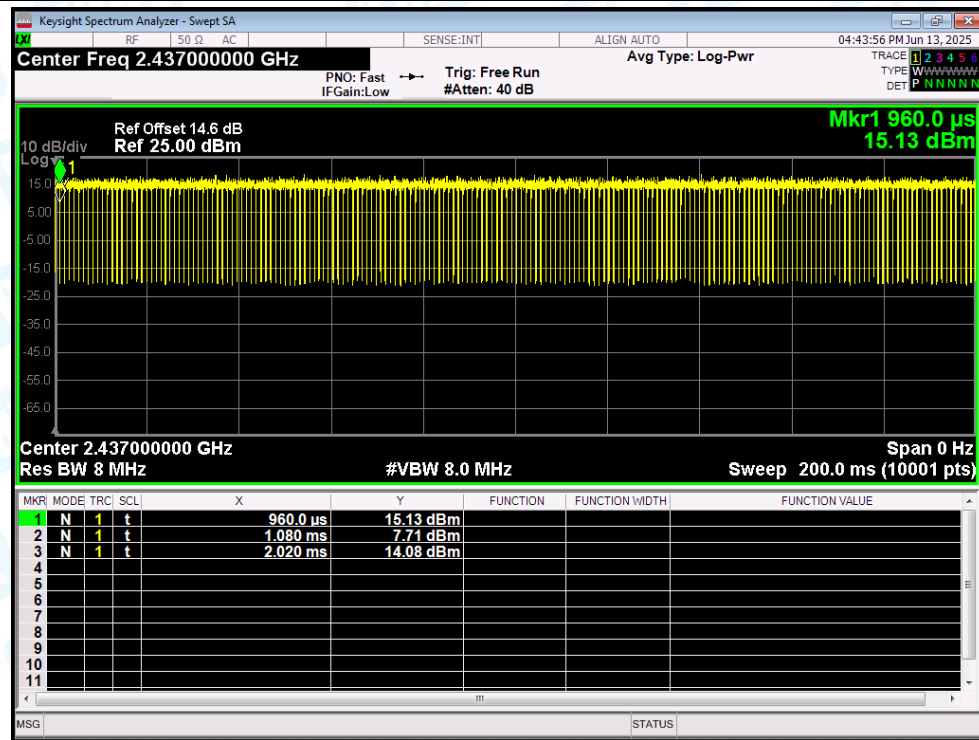
Duty Cycle NVNT n(HT40) 2452MHz Ant1



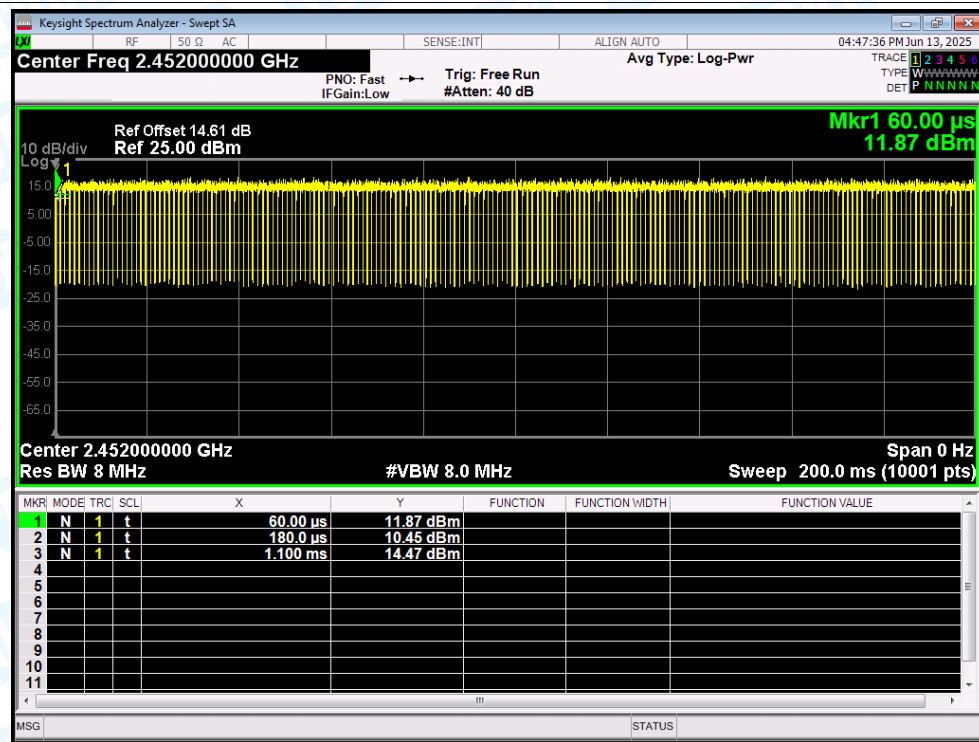
Duty Cycle NVNT n(HT40) 2422MHz Ant1



Duty Cycle NVNT n(HT40) 2437MHz Ant1



Duty Cycle NVNT n(HT40) 2452MHz Ant1



2. Maximum Conducted Output Power

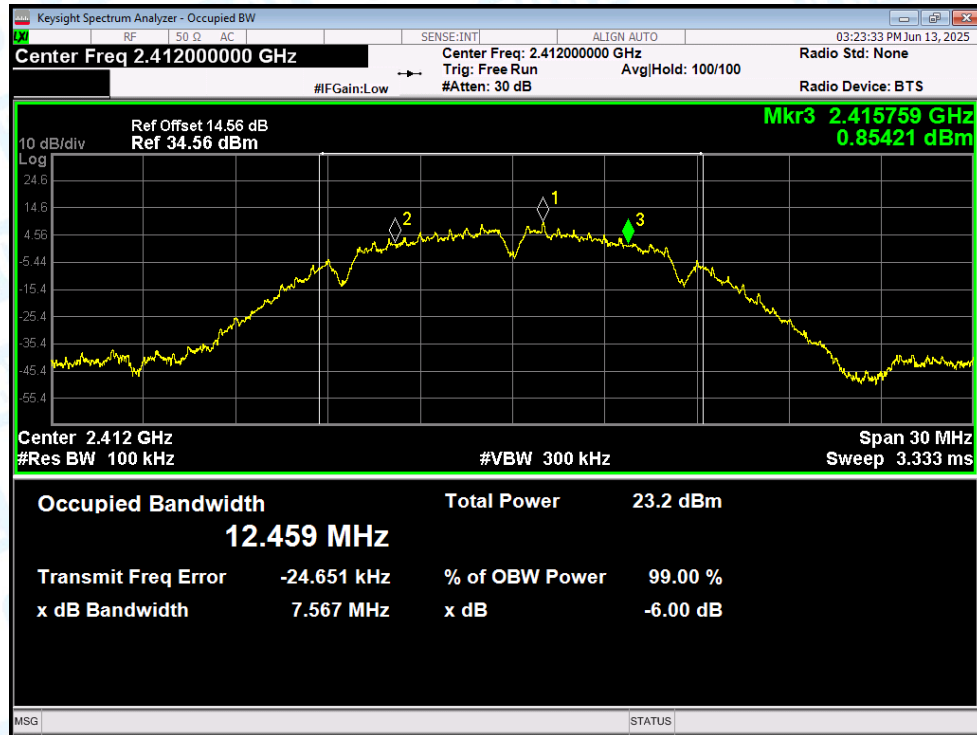
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	16.4	30	Pass
NVNT	b	2437	Ant1	16.53	30	Pass
NVNT	b	2462	Ant1	16.49	30	Pass
NVNT	g	2412	Ant1	13.88	30	Pass
NVNT	g	2437	Ant1	14.23	30	Pass
NVNT	g	2462	Ant1	13.98	30	Pass
NVNT	n(HT20)	2412	Ant1	14.1	30	Pass
NVNT	n(HT20)	2437	Ant1	13.9	30	Pass
NVNT	n(HT20)	2462	Ant1	13.86	30	Pass
NVNT	n(HT40)	2422	Ant1	14.08	30	Pass
NVNT	n(HT40)	2437	Ant1	14.24	30	Pass
NVNT	n(HT40)	2452	Ant1	14.25	30	Pass

3. -6dB Bandwidth

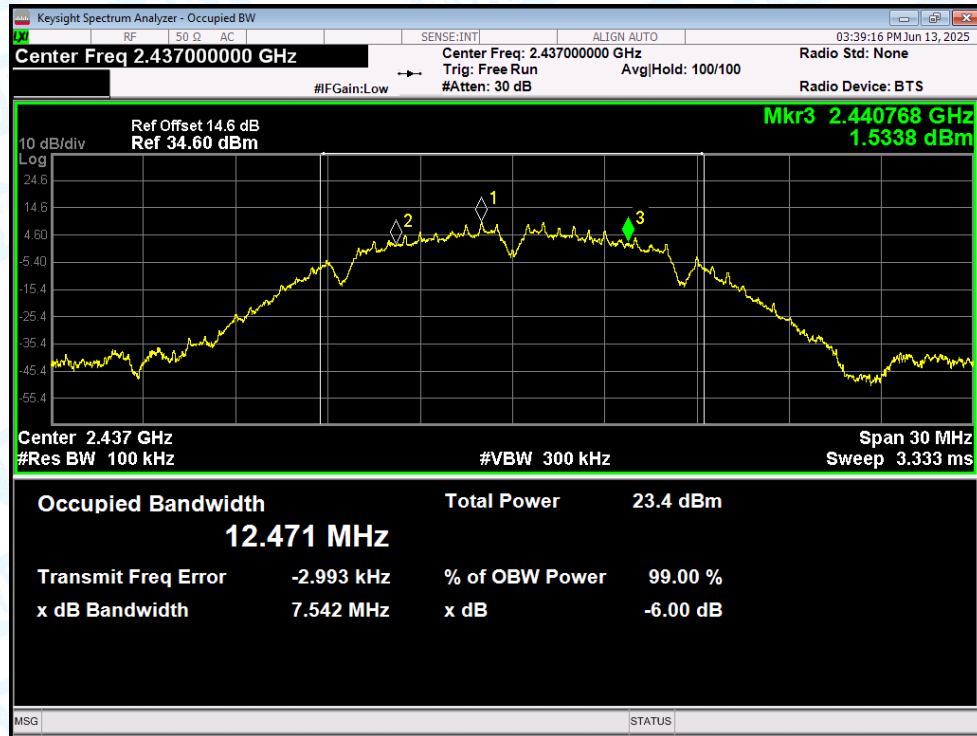
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	7.57	0.5	Pass
NVNT	b	2437	Ant1	7.54	0.5	Pass
NVNT	b	2462	Ant1	7.56	0.5	Pass
NVNT	g	2412	Ant1	16.34	0.5	Pass
NVNT	g	2437	Ant1	16.34	0.5	Pass
NVNT	g	2462	Ant1	16.33	0.5	Pass
NVNT	n(HT20)	2412	Ant1	17.57	0.5	Pass
NVNT	n(HT20)	2437	Ant1	17.57	0.5	Pass
NVNT	n(HT20)	2462	Ant1	17.58	0.5	Pass
NVNT	n(HT40)	2422	Ant1	36.06	0.5	Pass
NVNT	n(HT40)	2437	Ant1	36.35	0.5	Pass
NVNT	n(HT40)	2452	Ant1	36.32	0.5	Pass

Test Graphs

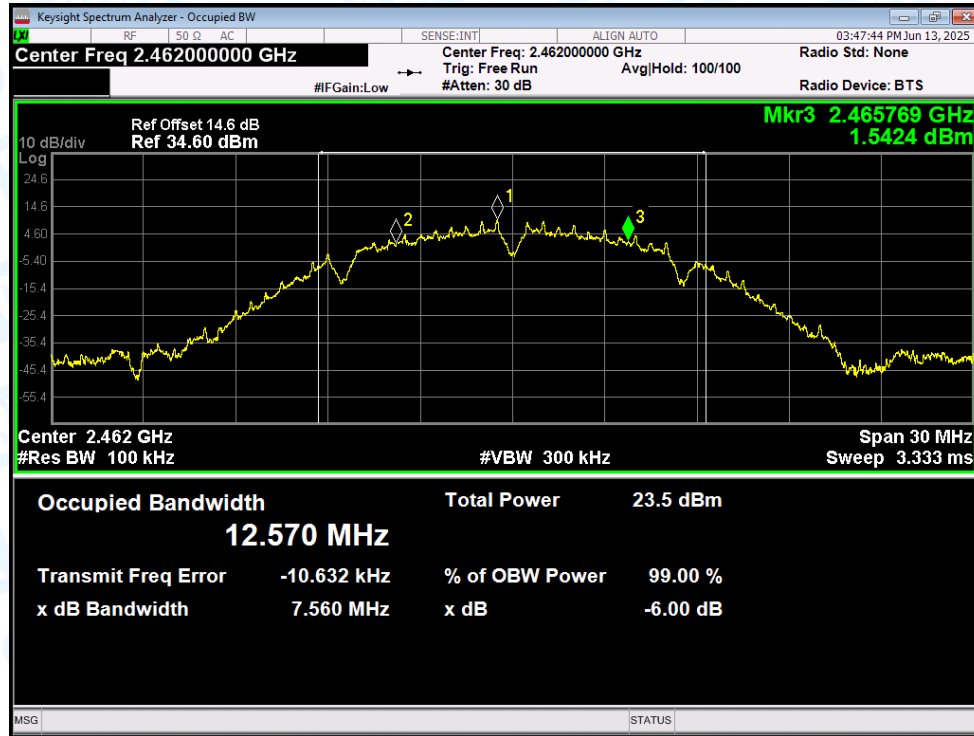
-6dB Bandwidth NVNT b 2412MHz Ant1



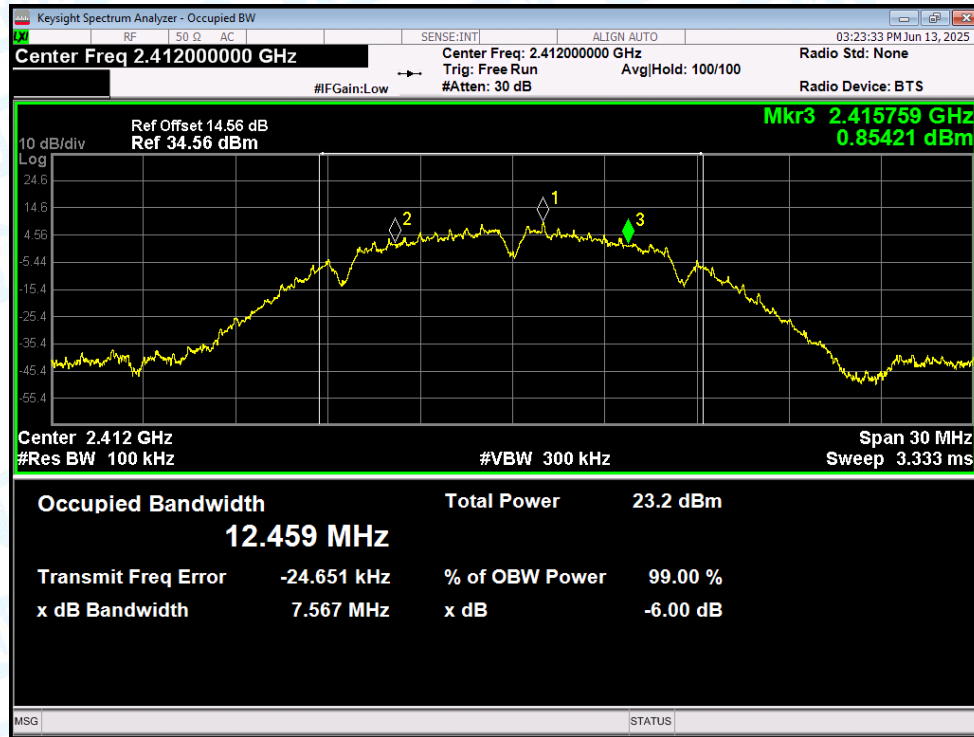
-6dB Bandwidth NVNT b 2437MHz Ant1



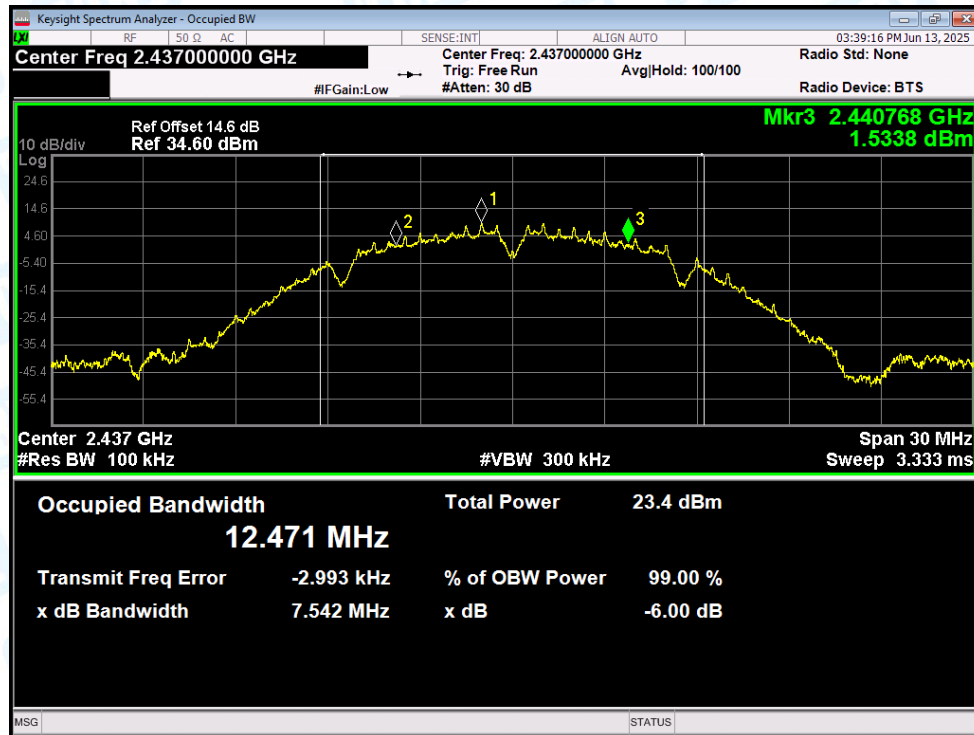
-6dB Bandwidth NVNT b 2462MHz Ant1



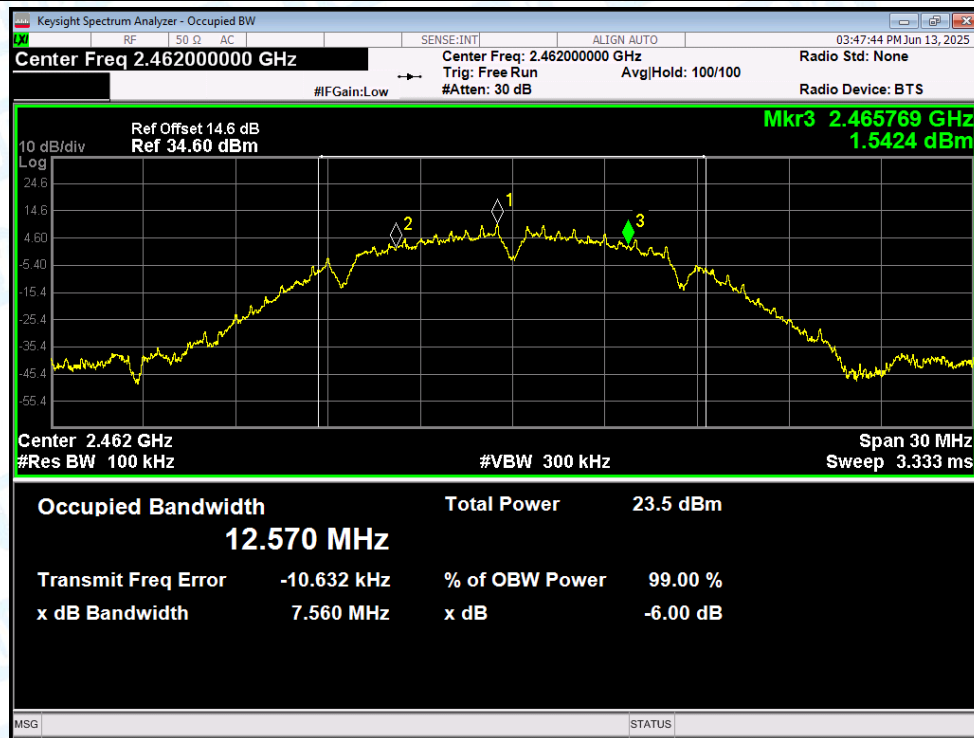
-6dB Bandwidth NVNT b 2412MHz Ant1



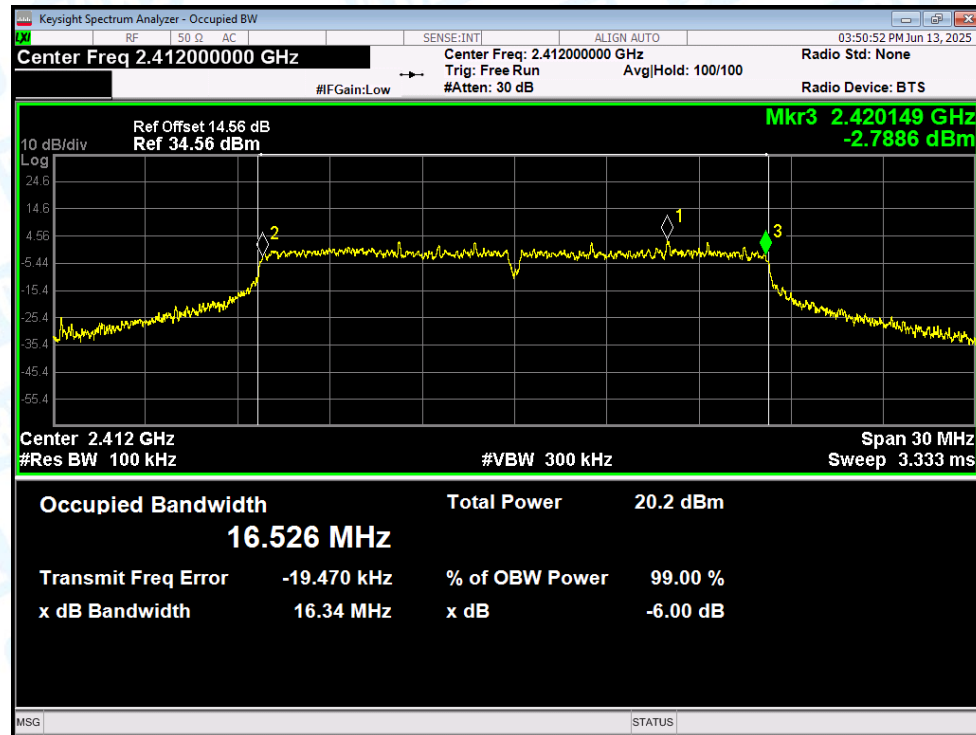
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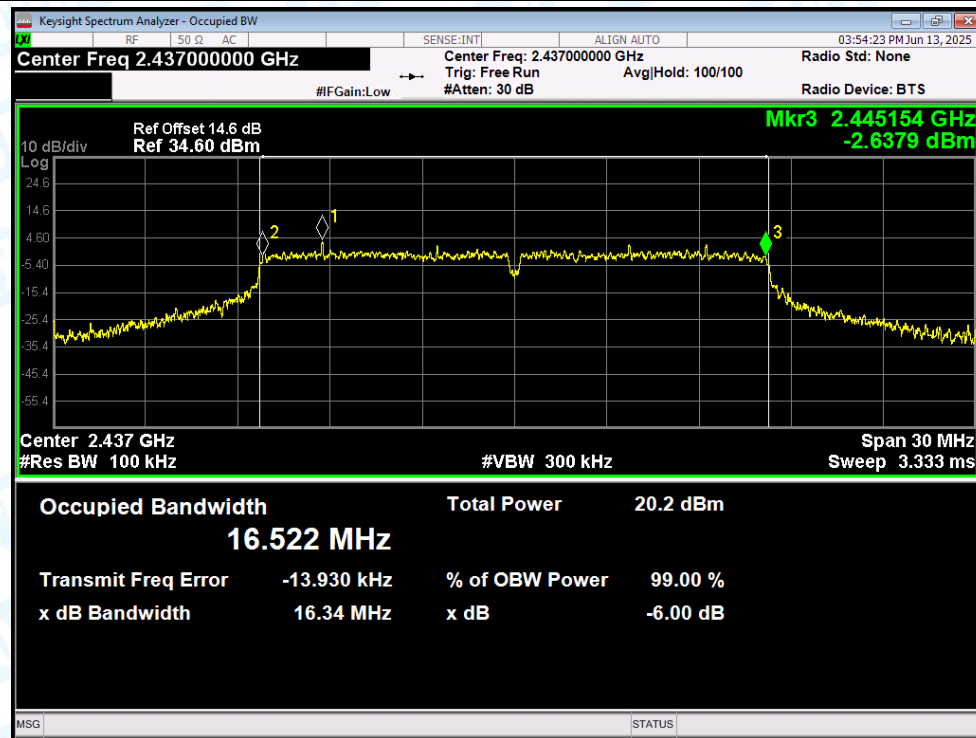
-6dB Bandwidth NVNT b 2462MHz Ant1



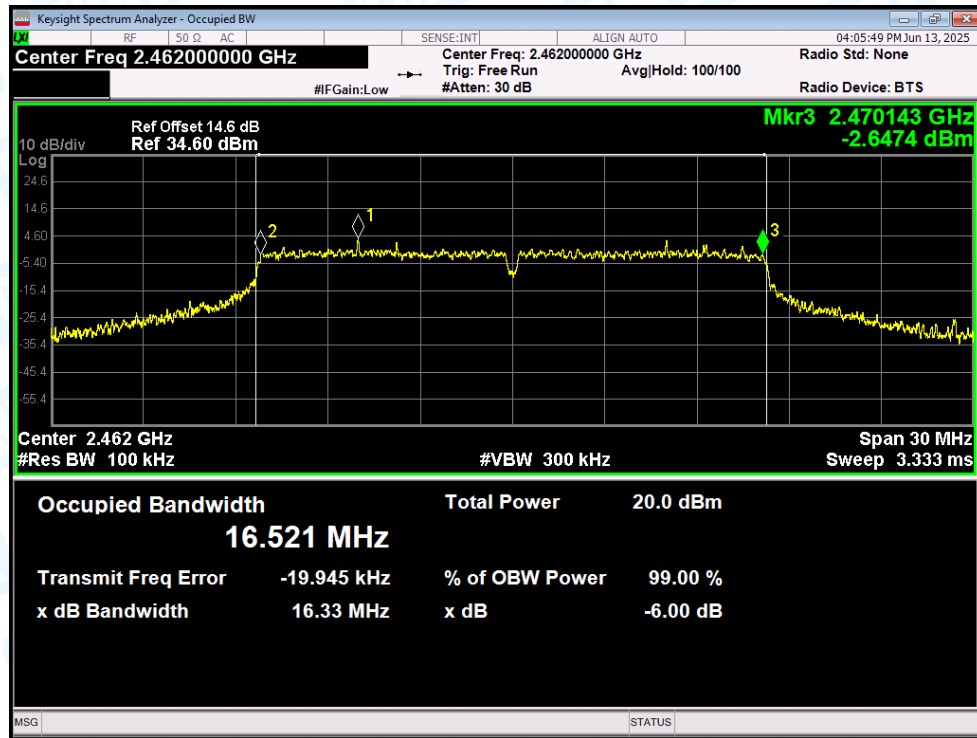
-6dB Bandwidth NVNT g 2412MHz Ant1



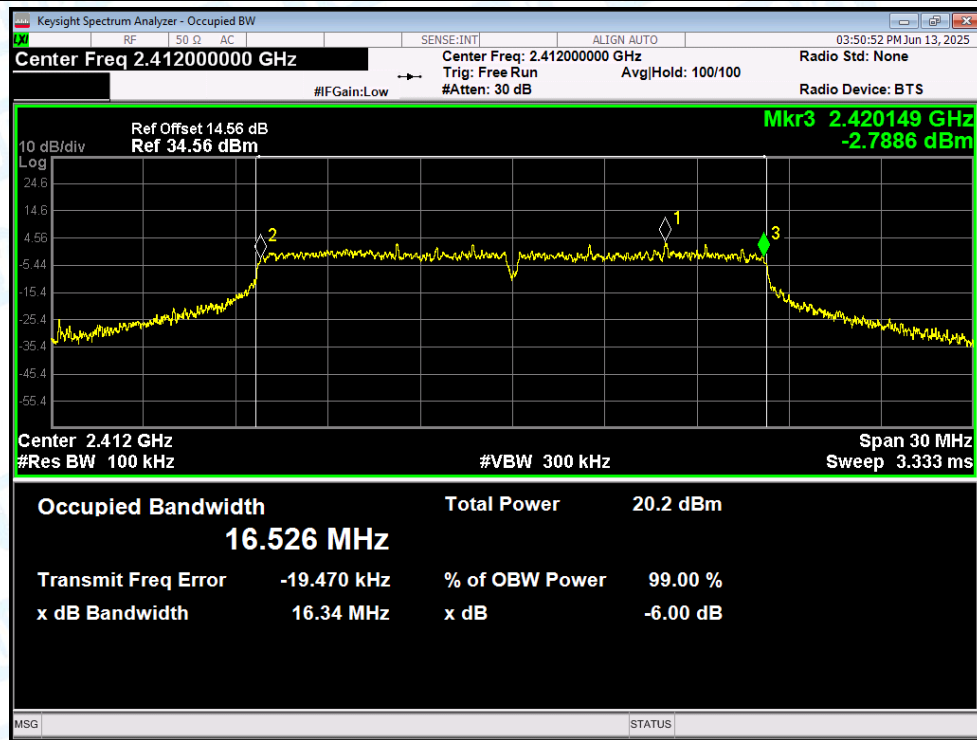
-6dB Bandwidth NVNT g 2437MHz Ant1



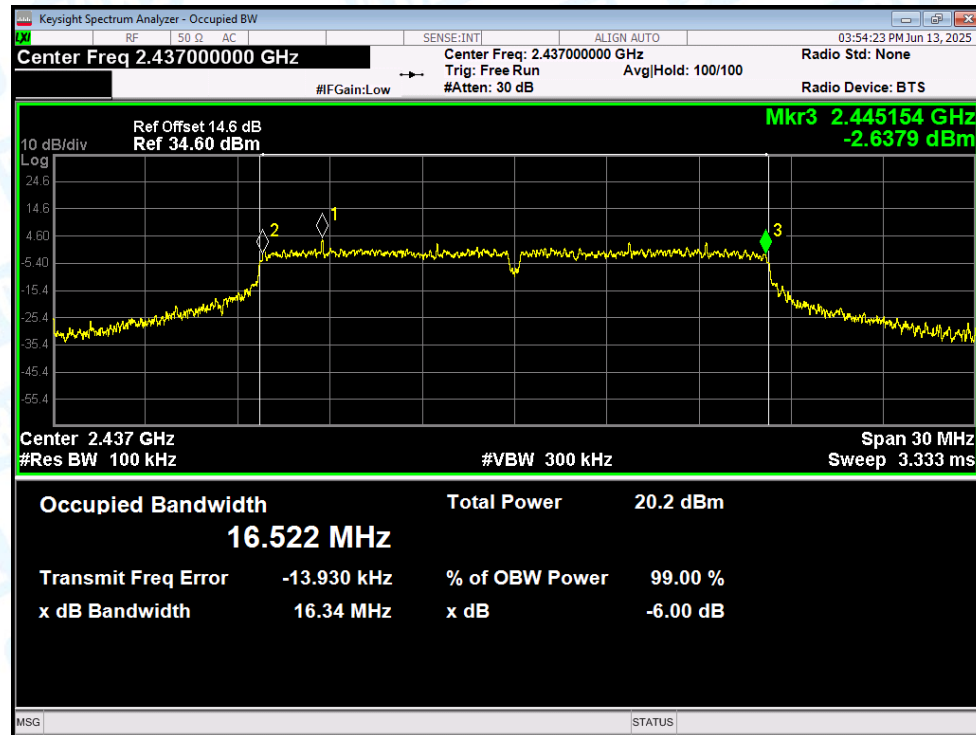
-6dB Bandwidth NVNT g 2462MHz Ant1



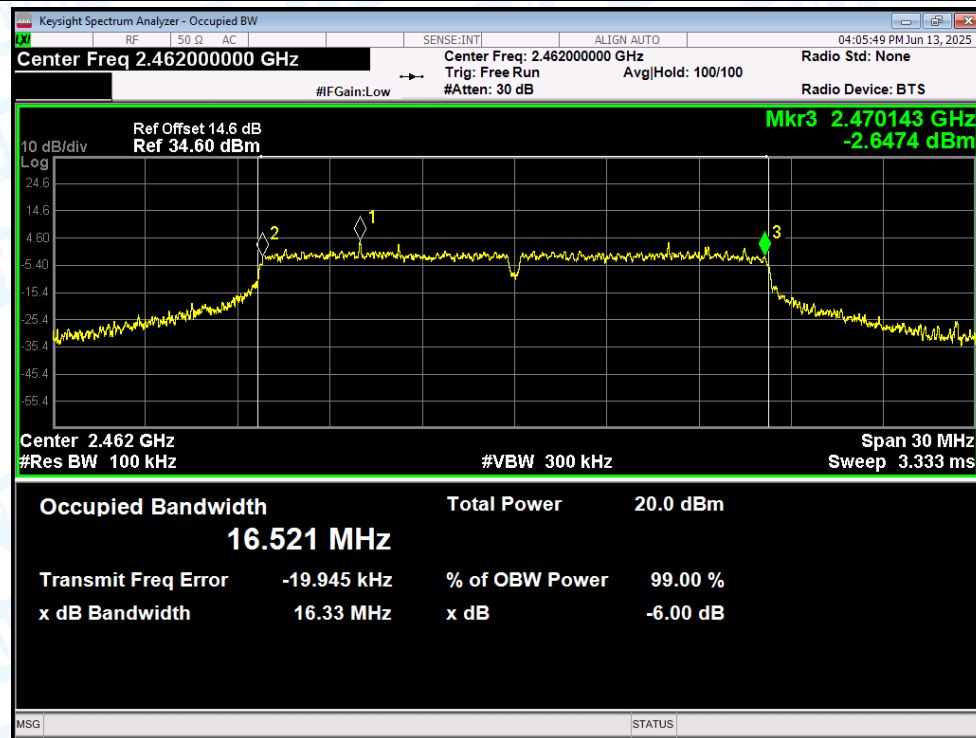
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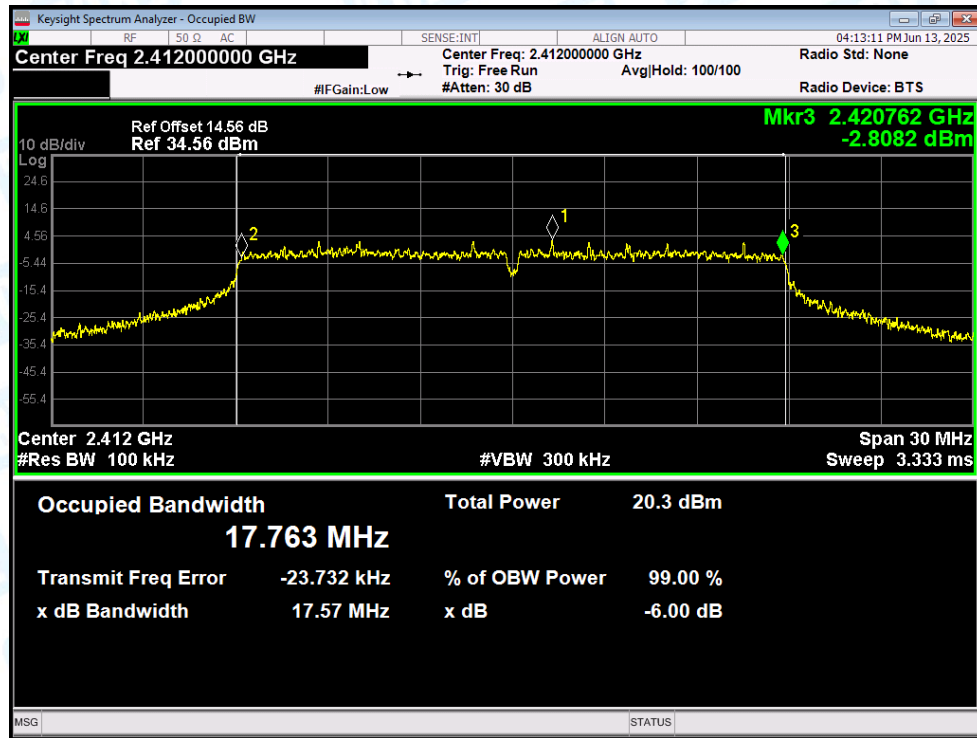
-6dB Bandwidth NVNT g 2437MHz Ant1



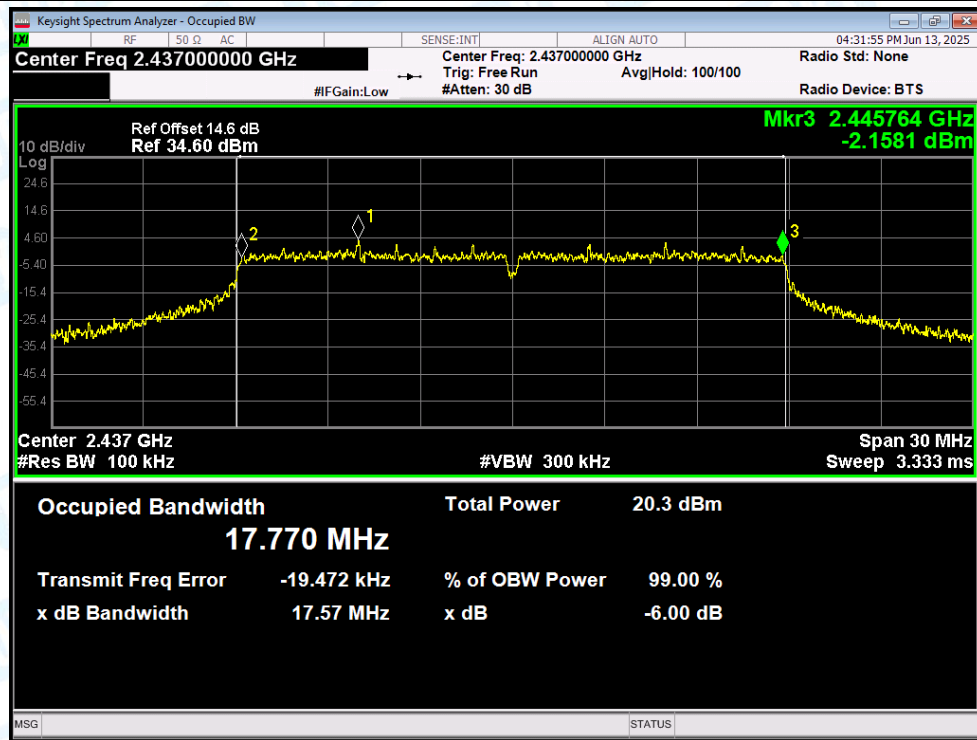
-6dB Bandwidth NVNT g 2462MHz Ant1



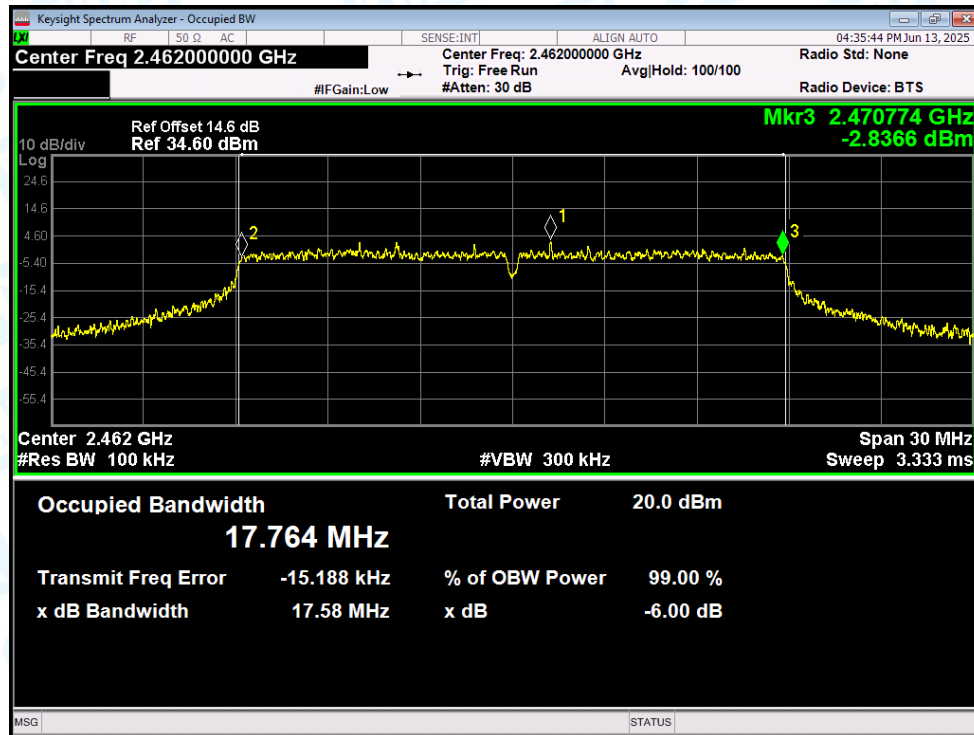
-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



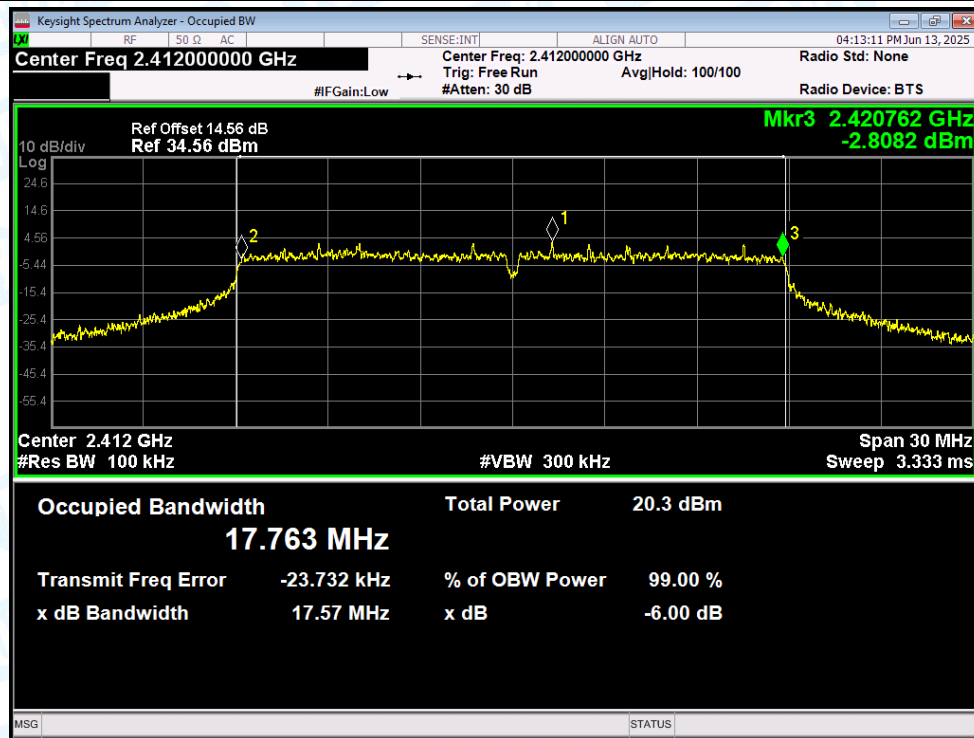
-6dB Bandwidth NVNT n(HT20) 2437MHz Ant1



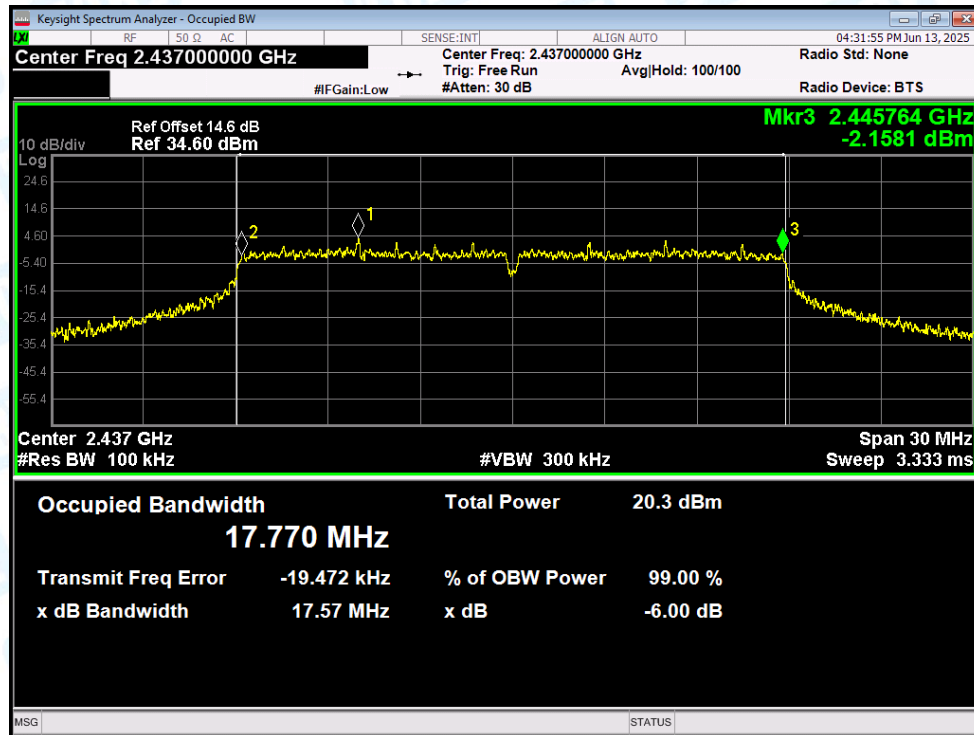
-6dB Bandwidth NVNT n(HT20) 2462MHz Ant1



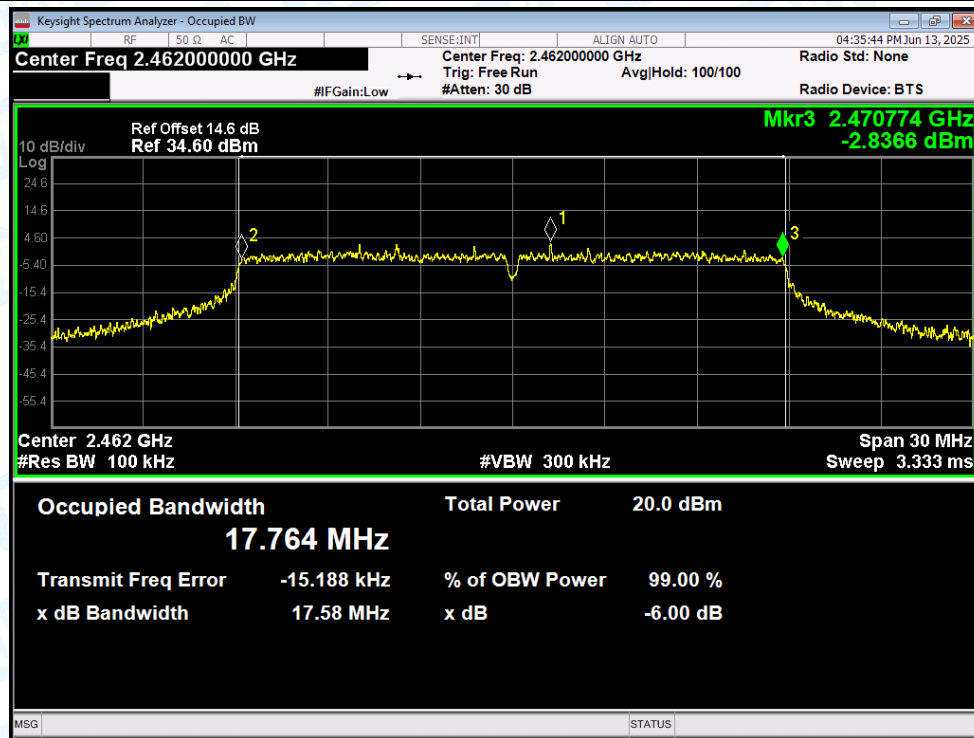
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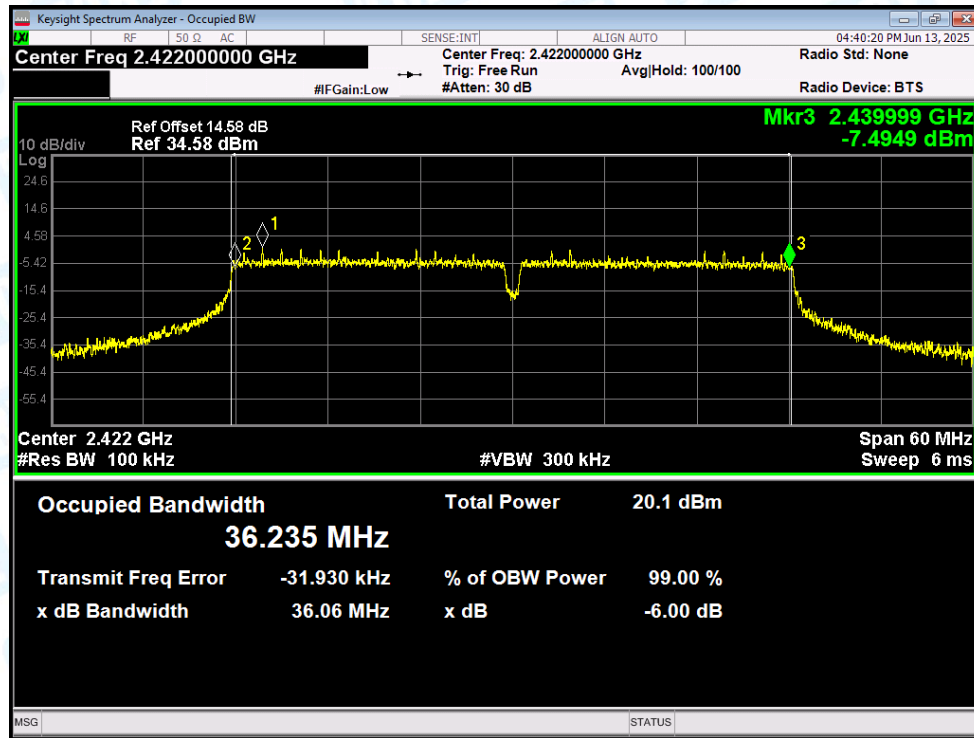
-6dB Bandwidth NVNT n(HT20) 2437MHz Ant1



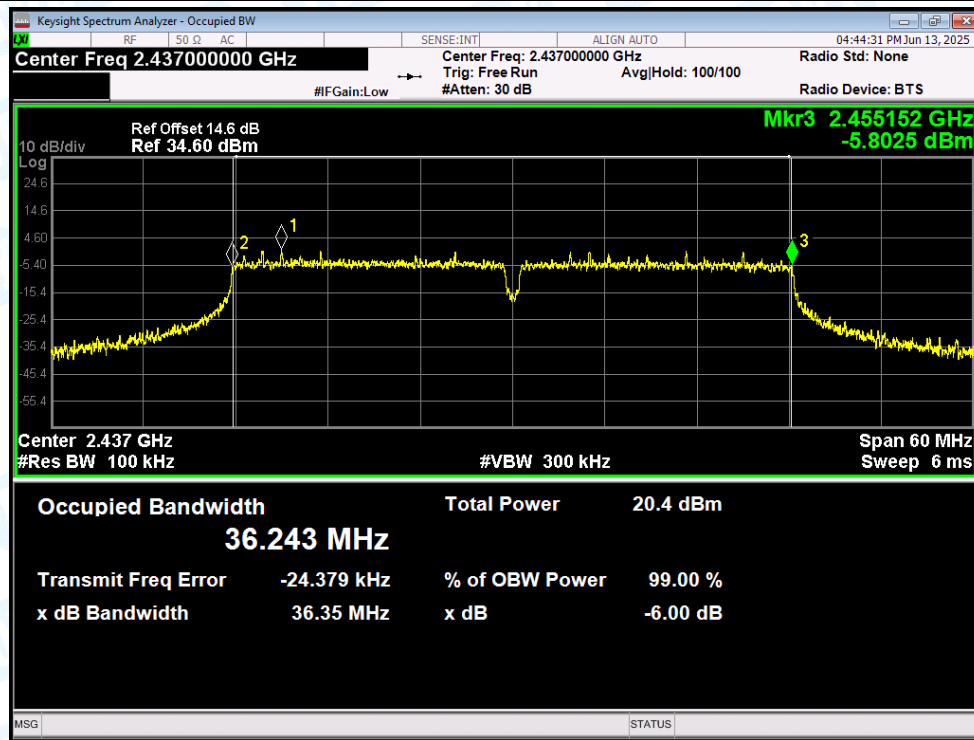
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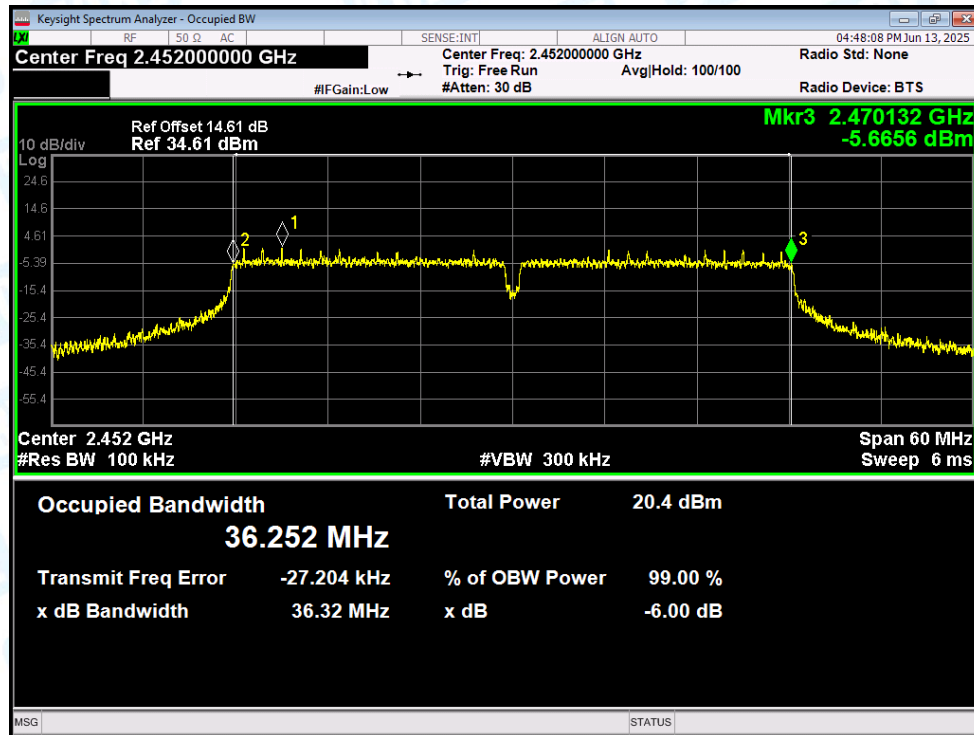
-6dB Bandwidth NVNT n(HT40) 2422MHz Ant1



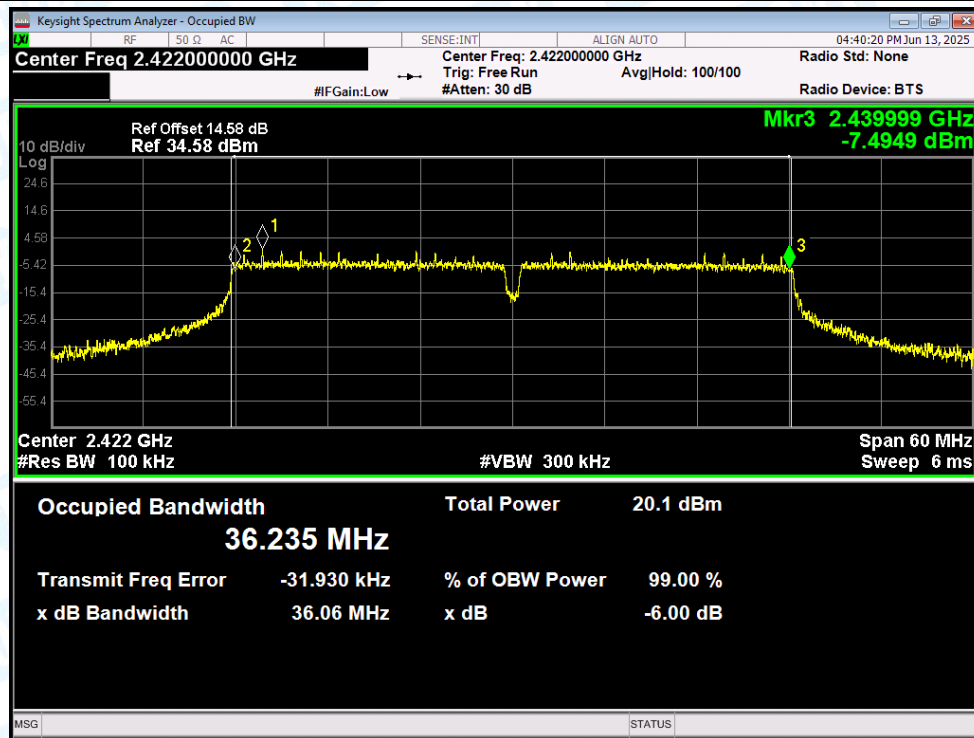
-6dB Bandwidth NVNT n(HT40) 2437MHz Ant1



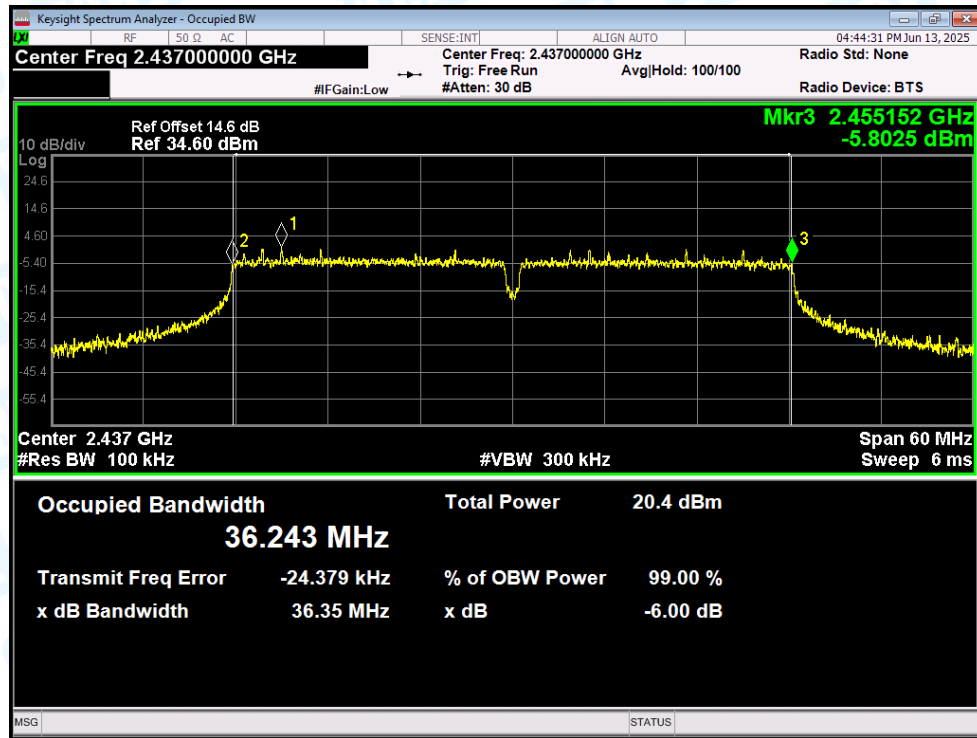
-6dB Bandwidth NVNT n(HT40) 2452MHz Ant1



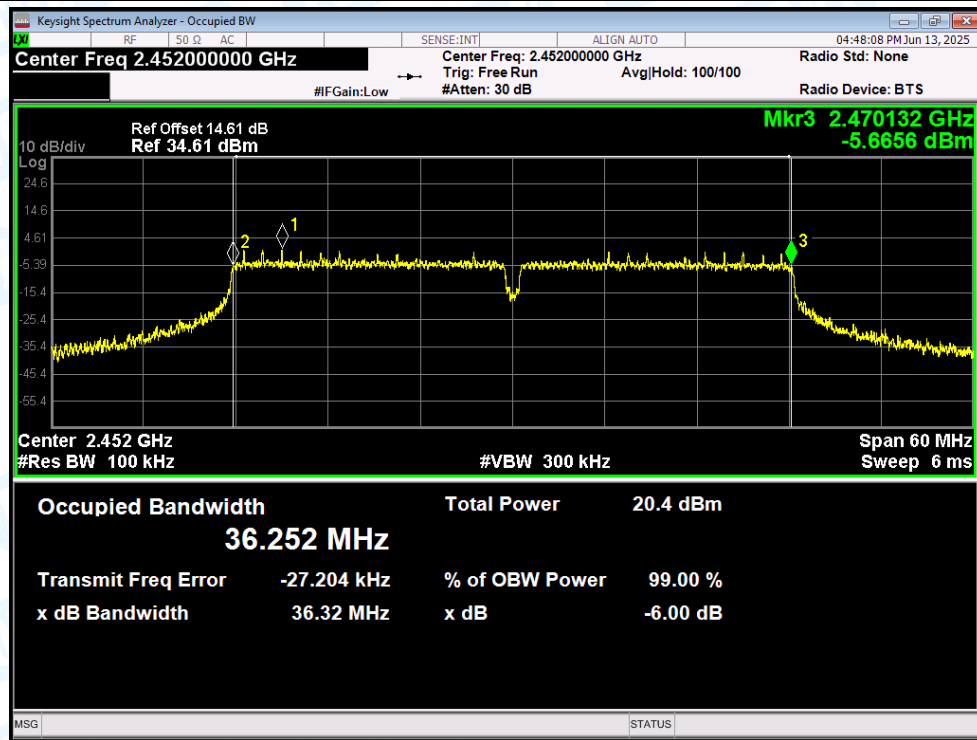
-6dB Bandwidth NVNT n(HT40) 2422MHz Ant1



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



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

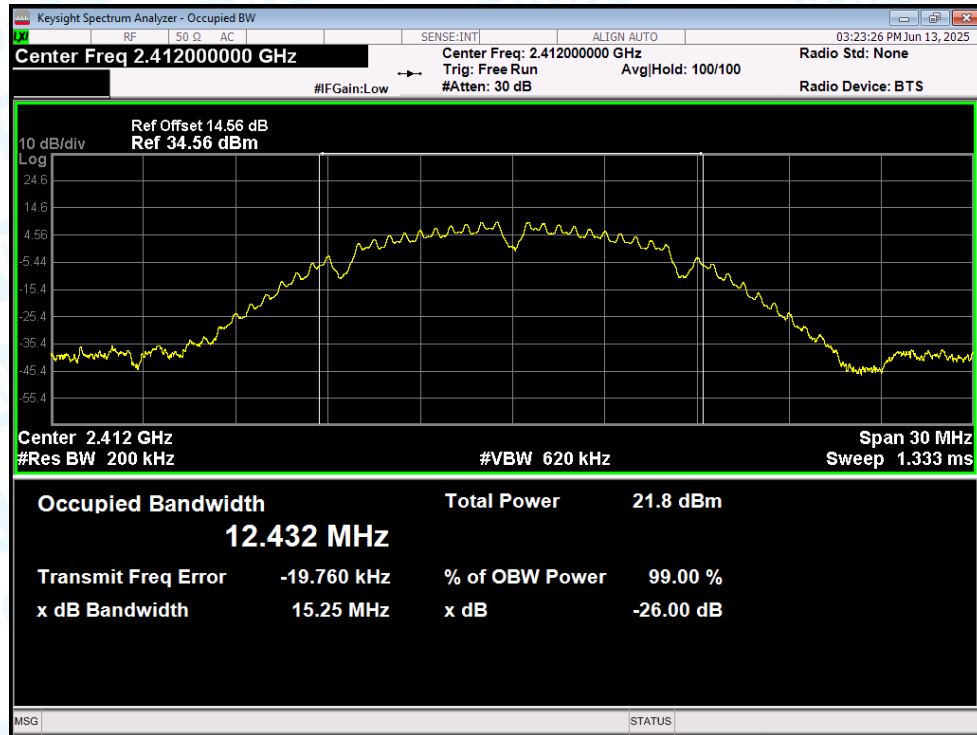


4. Occupied Channel Bandwidth

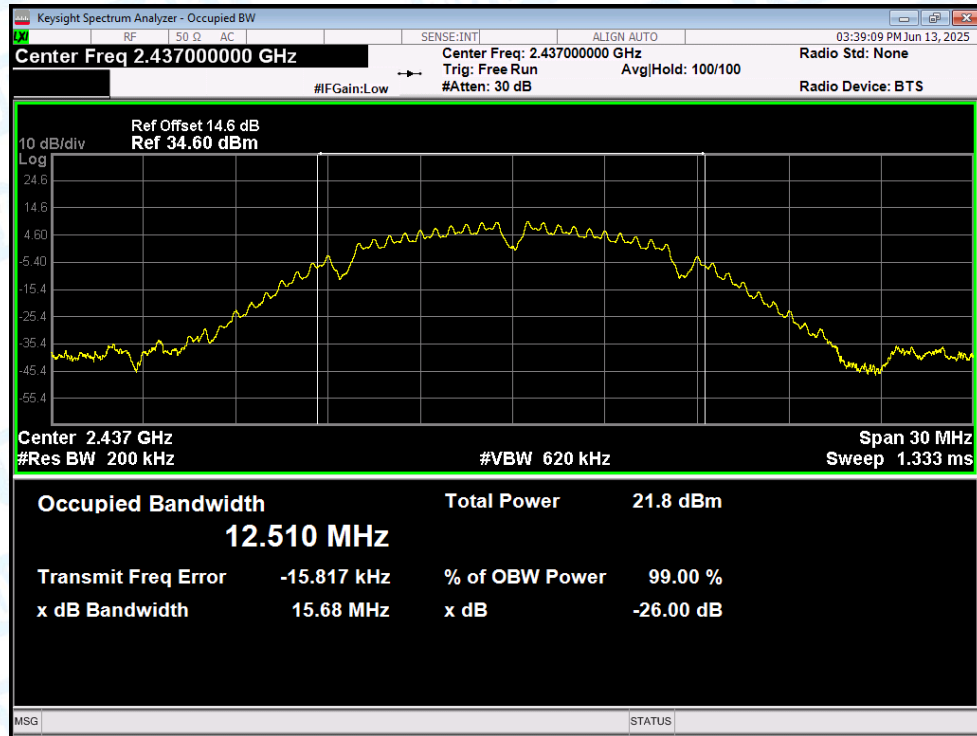
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	12.432
NVNT	b	2437	Ant1	12.51
NVNT	b	2462	Ant1	12.564
NVNT	g	2412	Ant1	16.737
NVNT	g	2437	Ant1	16.736
NVNT	g	2462	Ant1	16.757
NVNT	n(HT20)	2412	Ant1	17.923
NVNT	n(HT20)	2437	Ant1	17.948
NVNT	n(HT20)	2462	Ant1	17.929
NVNT	n(HT40)	2422	Ant1	36.655
NVNT	n(HT40)	2437	Ant1	36.644
NVNT	n(HT40)	2452	Ant1	36.579

Test Graphs

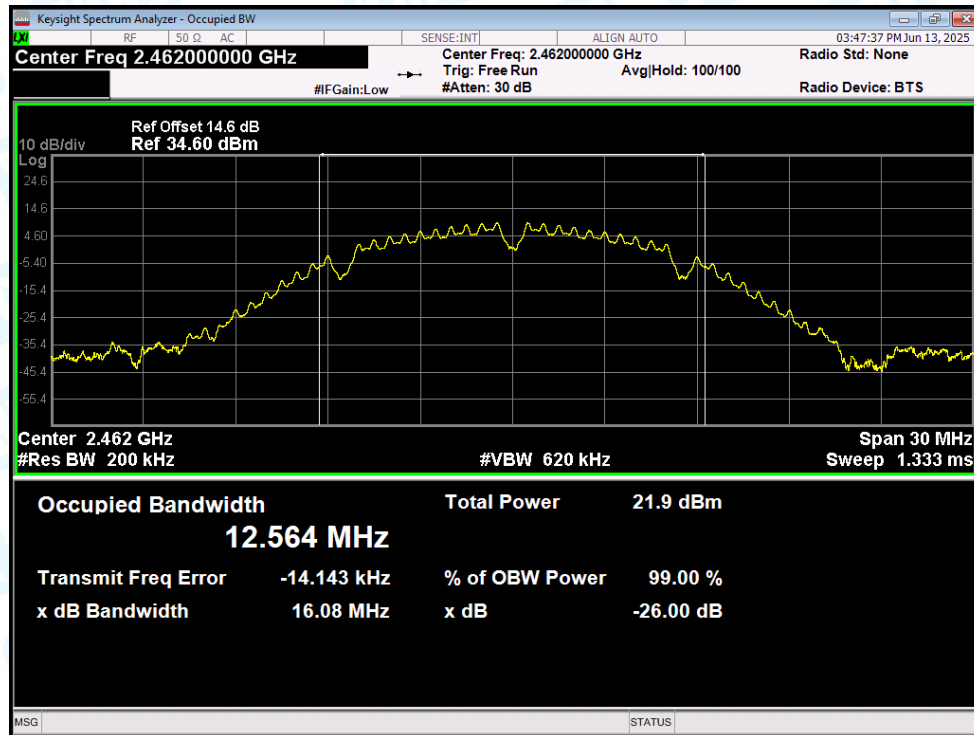
OBW NVNT b 2412MHz Ant1



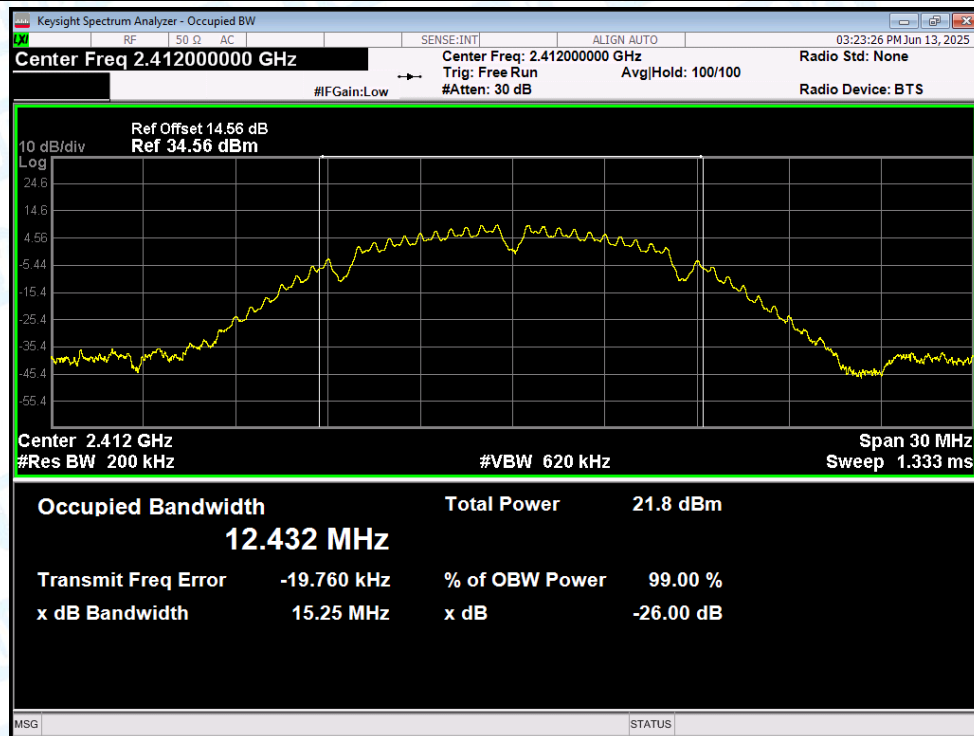
OBW NVNT b 2437MHz Ant1



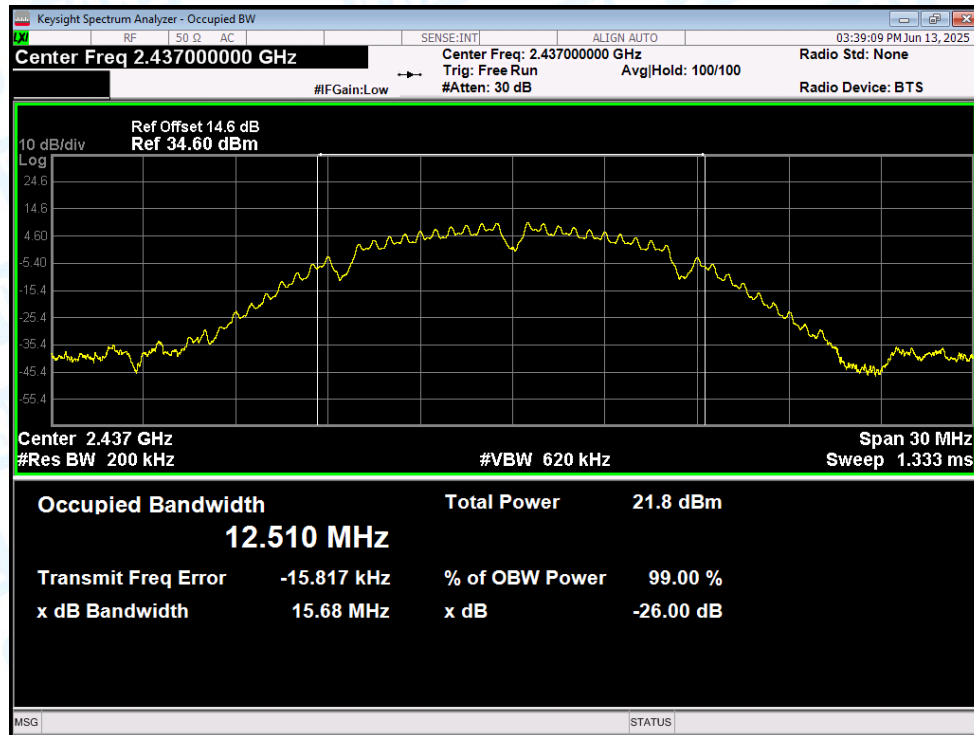
OBW NVNT b 2462MHz Ant1



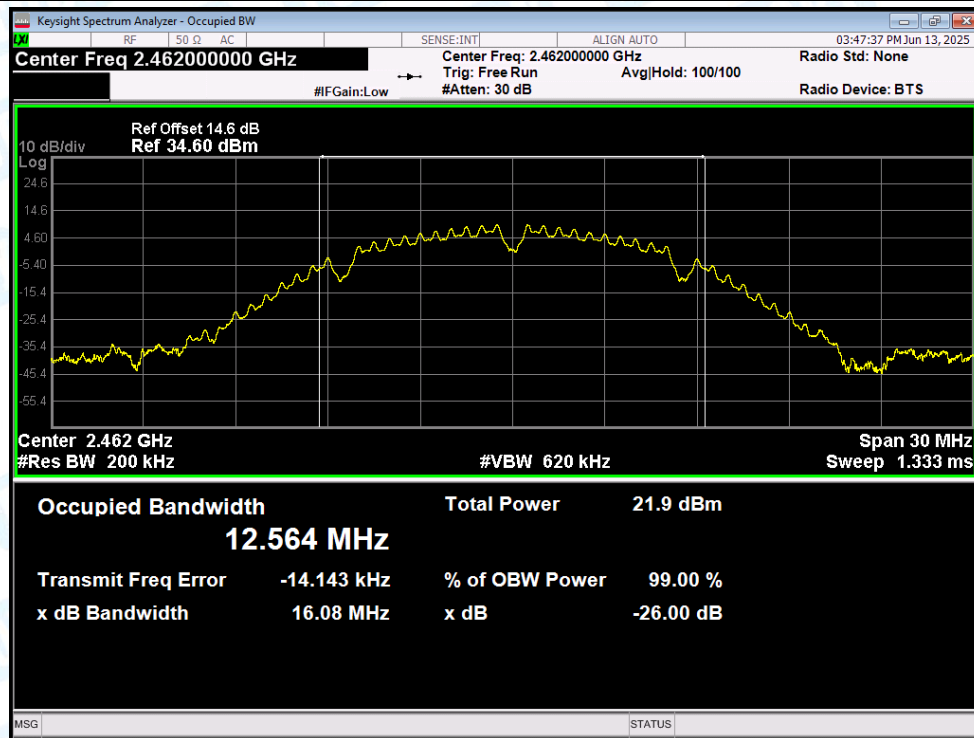
OBW NVNT b 2412MHz Ant1



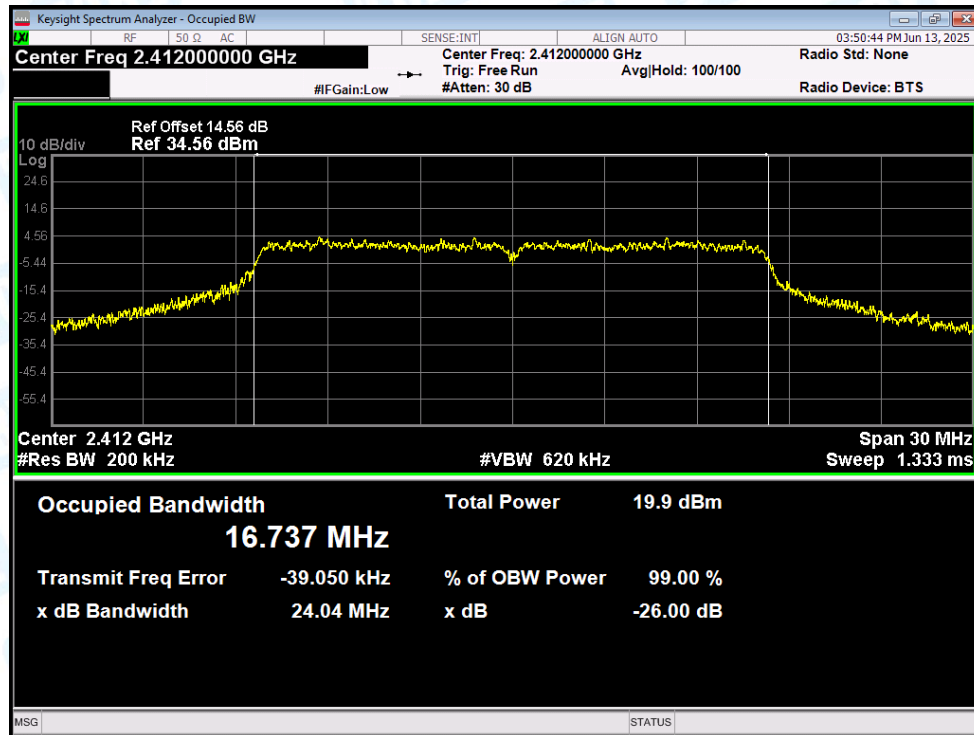
OBW NVNT b 2437MHz Ant1



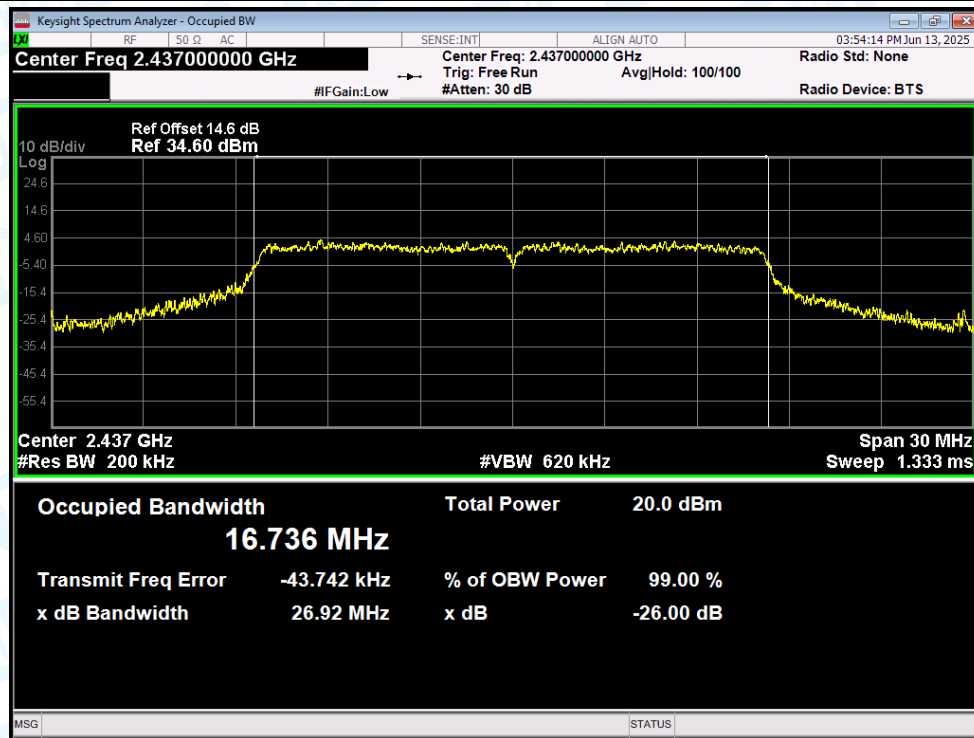
OBW NVNT b 2462MHz Ant1



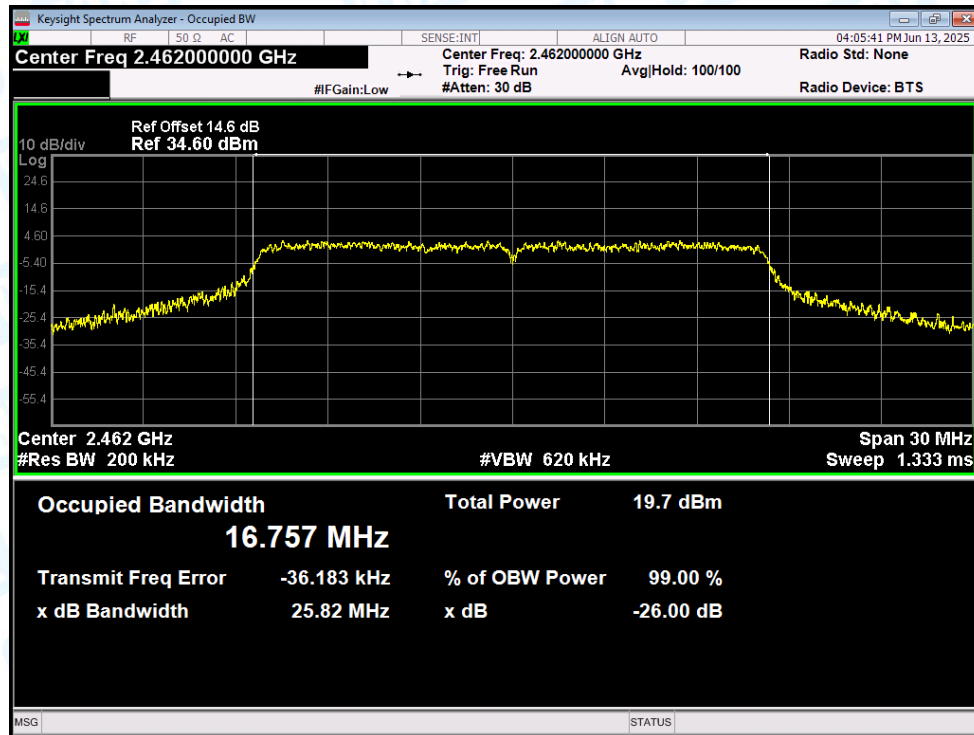
OBW NVNT g 2412MHz Ant1



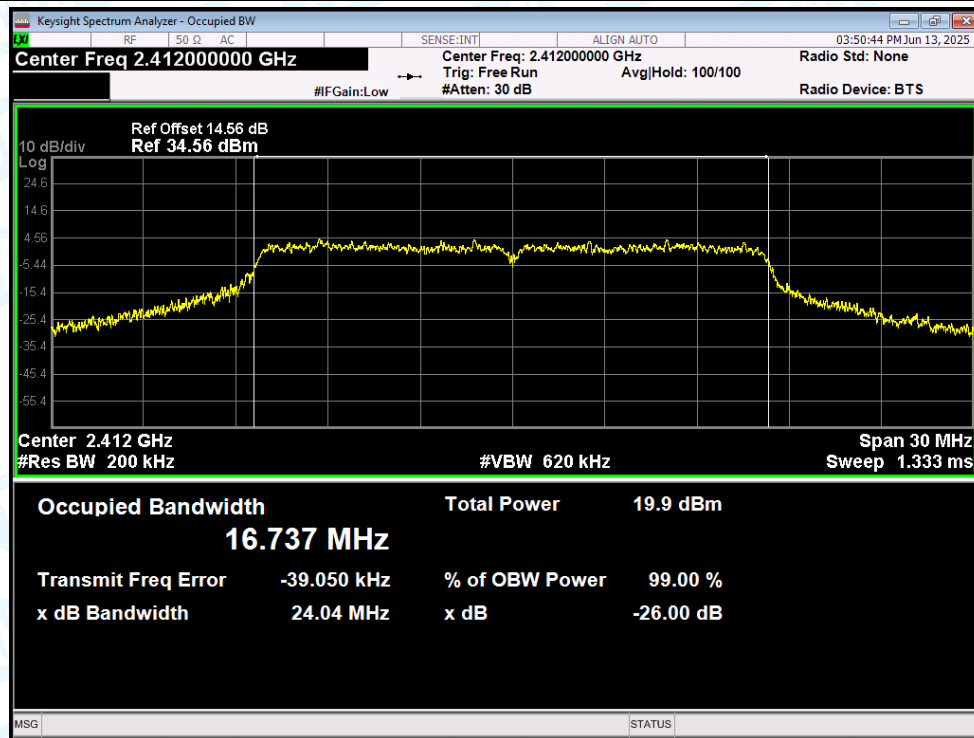
OBW NVNT g 2437MHz Ant1



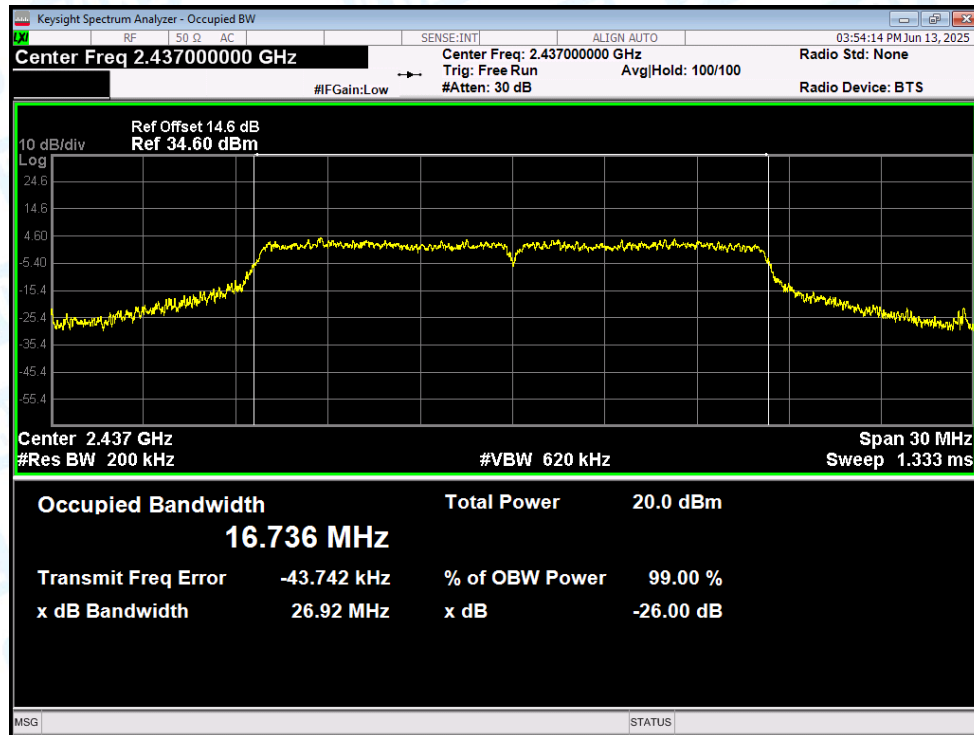
OBW NVNT g 2462MHz Ant1



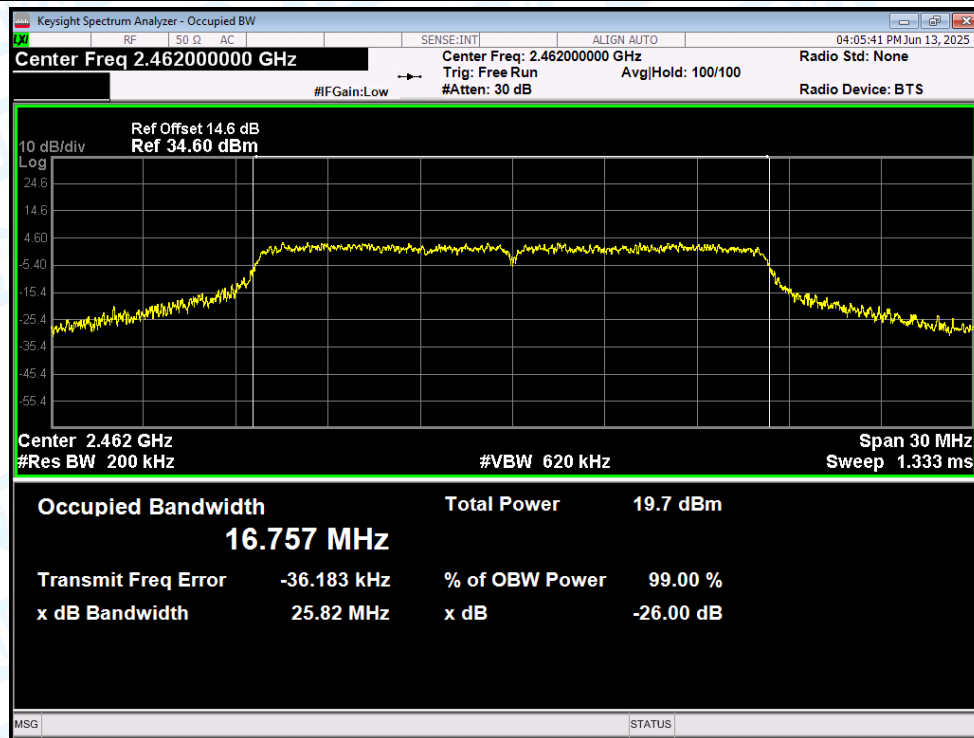
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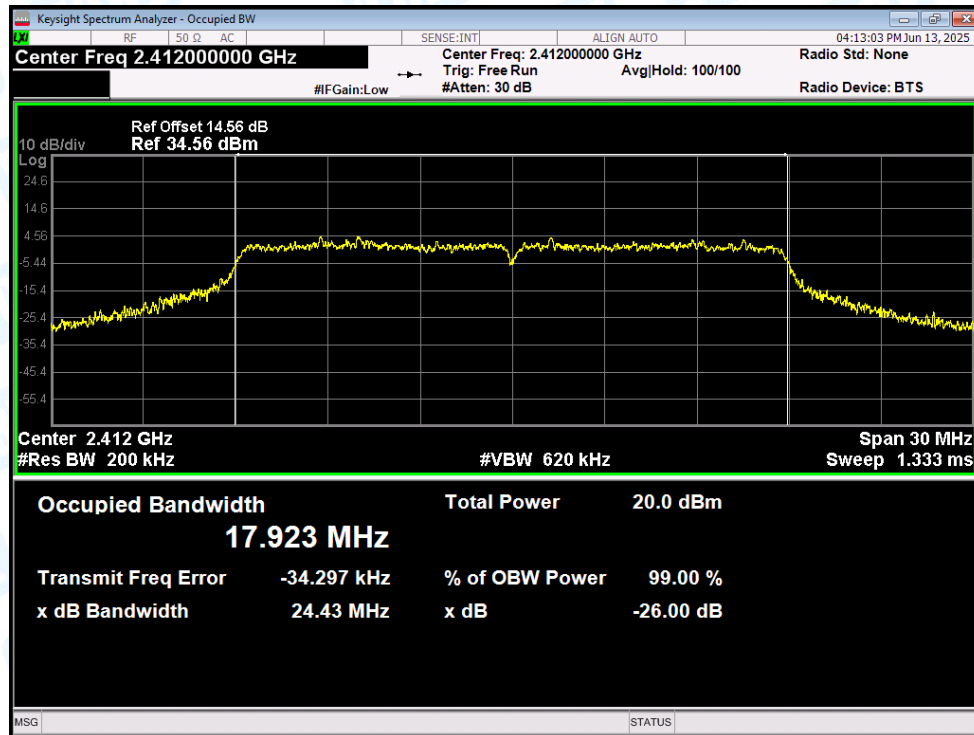
OBW NVNT g 2437MHz Ant1



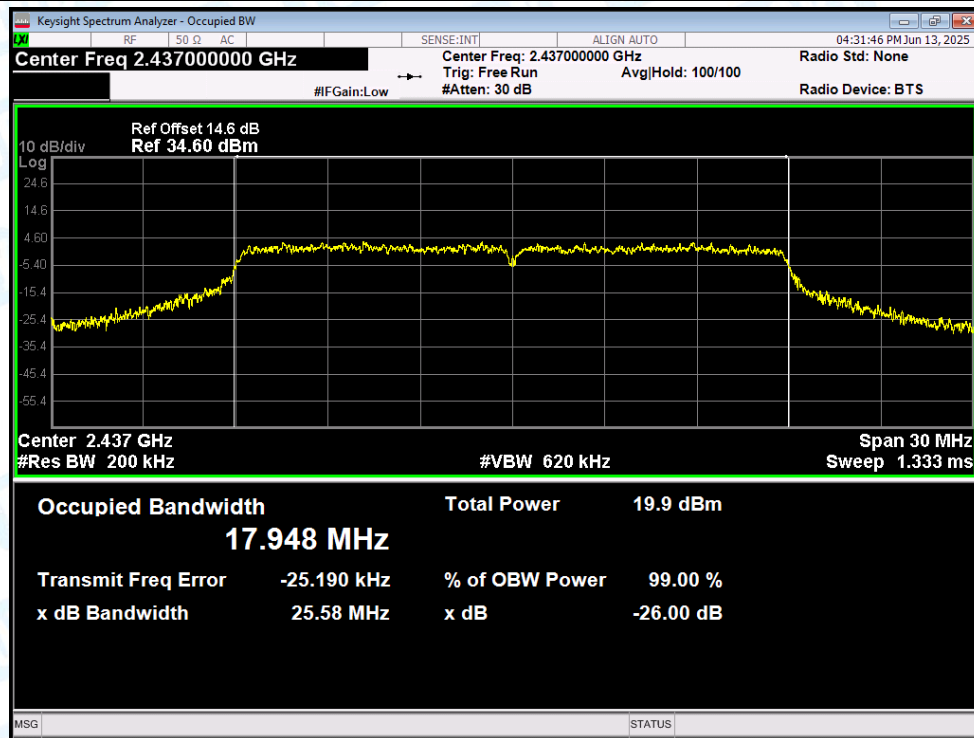
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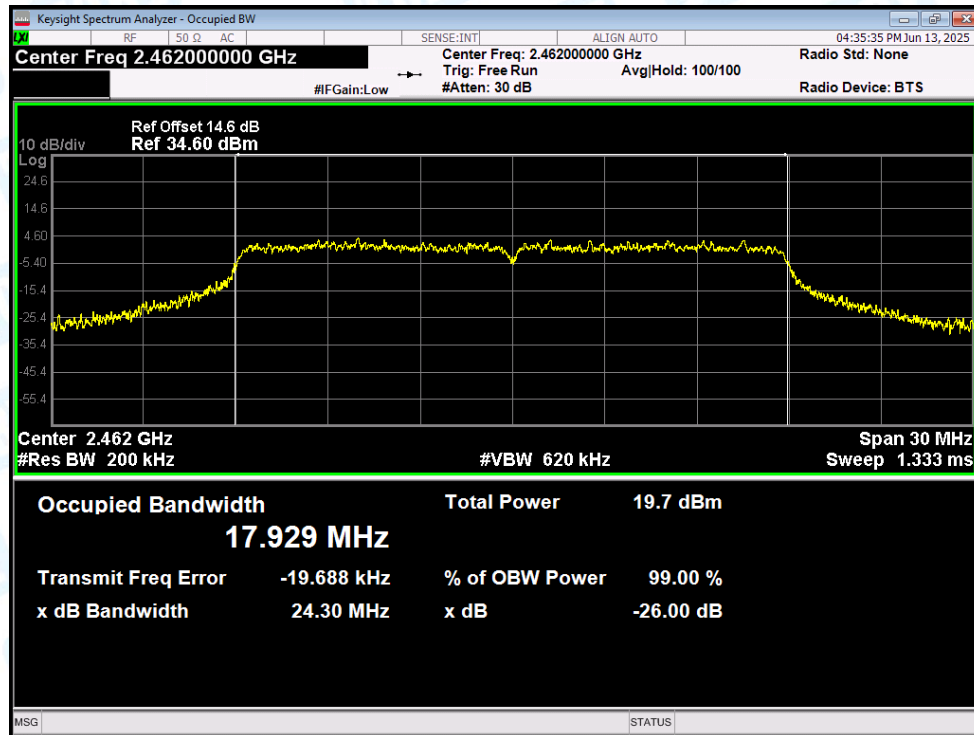
OBW NVNT n(HT20) 2412MHz Ant1



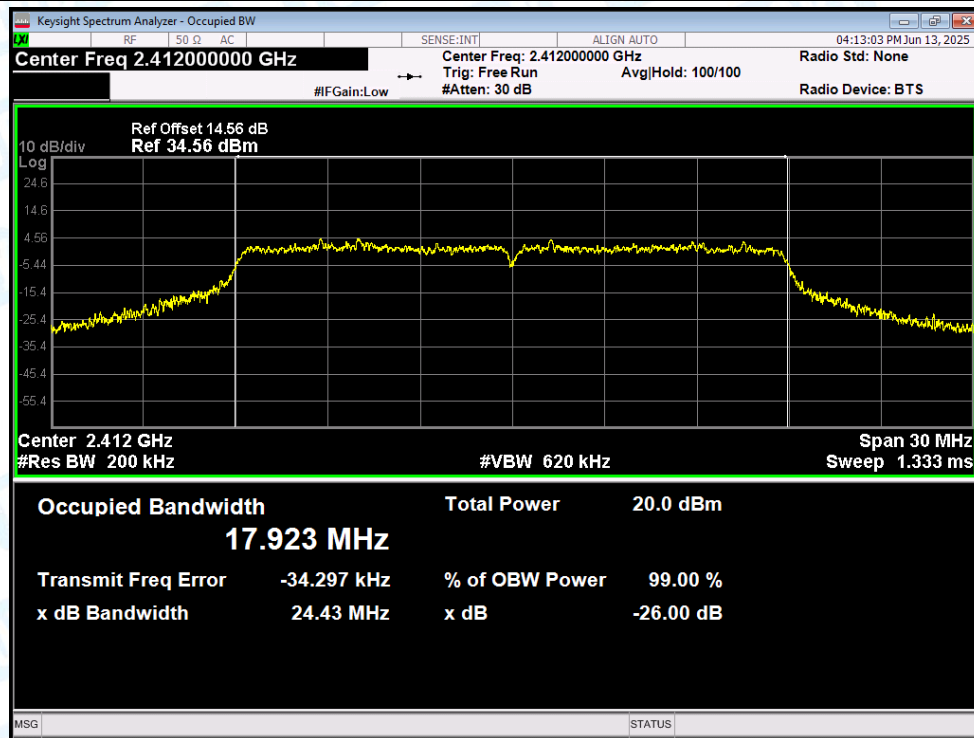
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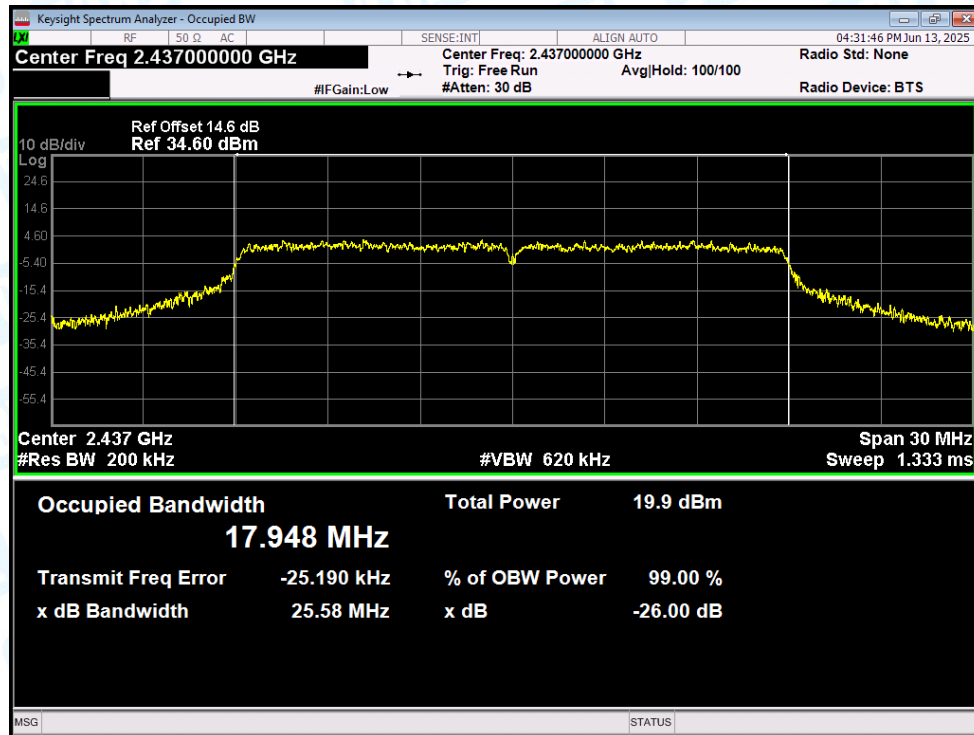
OBW NVNT n(HT20) 2462MHz Ant1



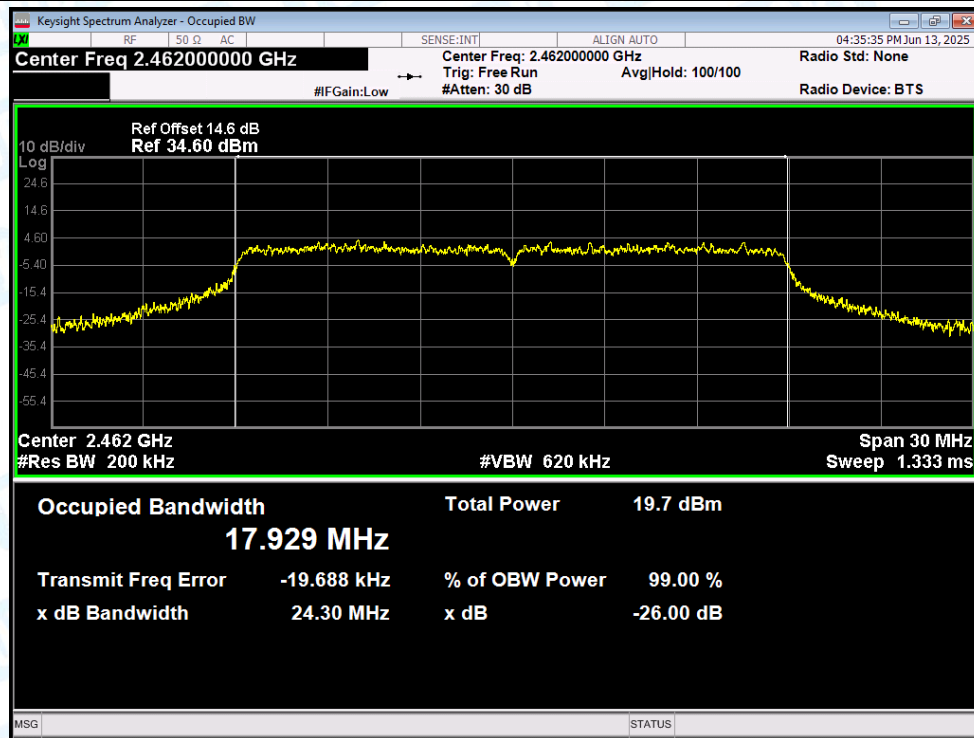
OBW NVNT n(HT20) 2412MHz Ant1



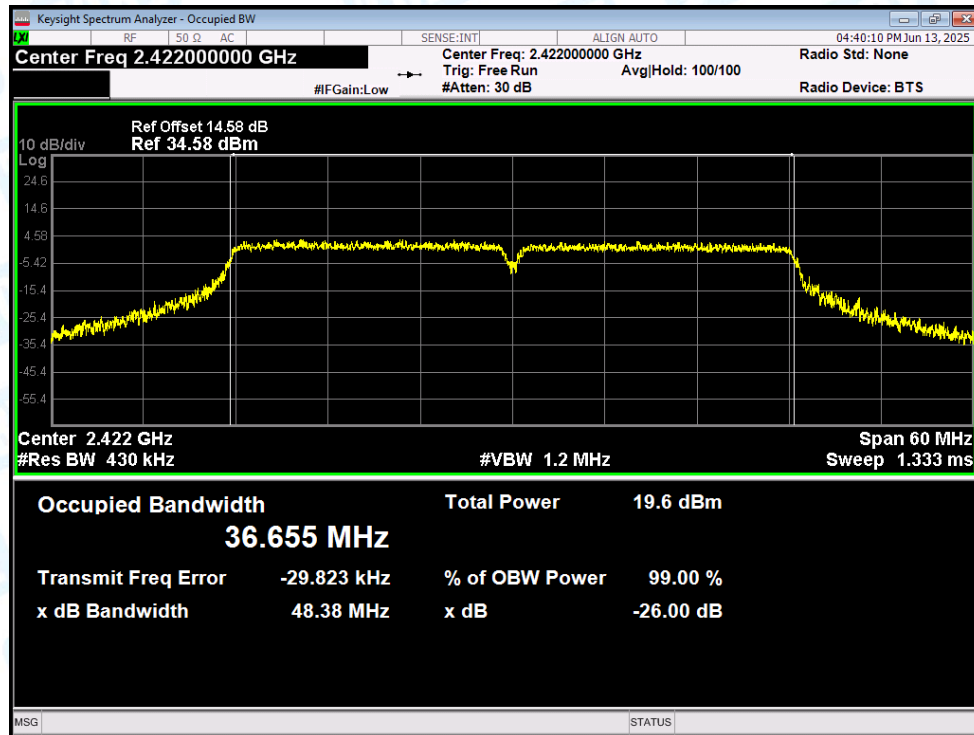
OBW NVNT n(HT20) 2437MHz Ant1



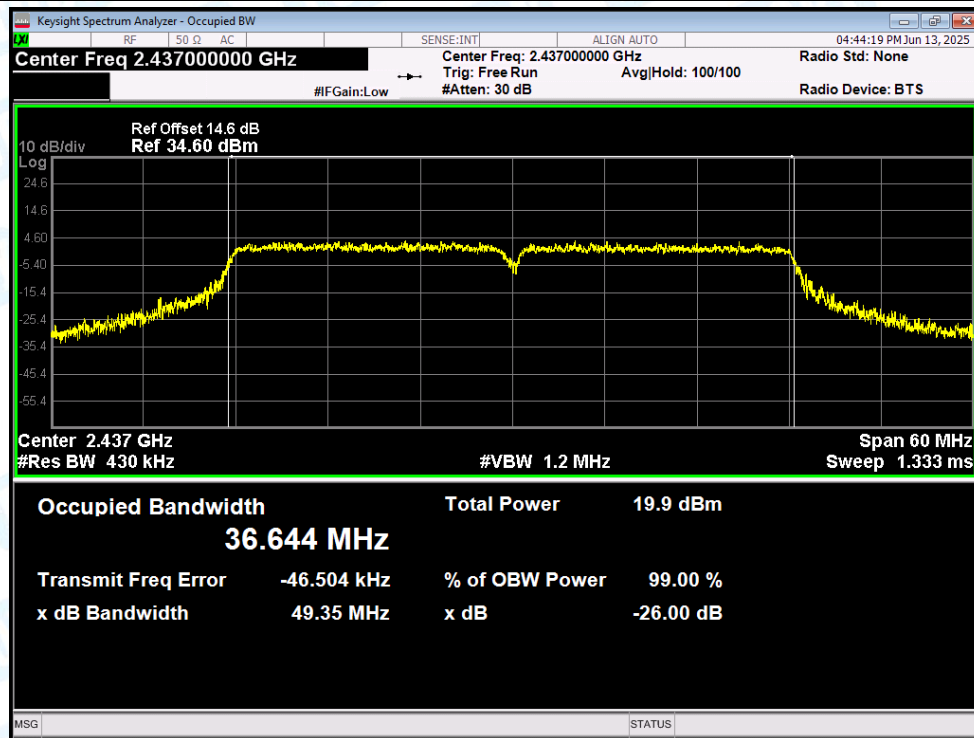
OBW NVNT n(HT20) 2462MHz Ant1



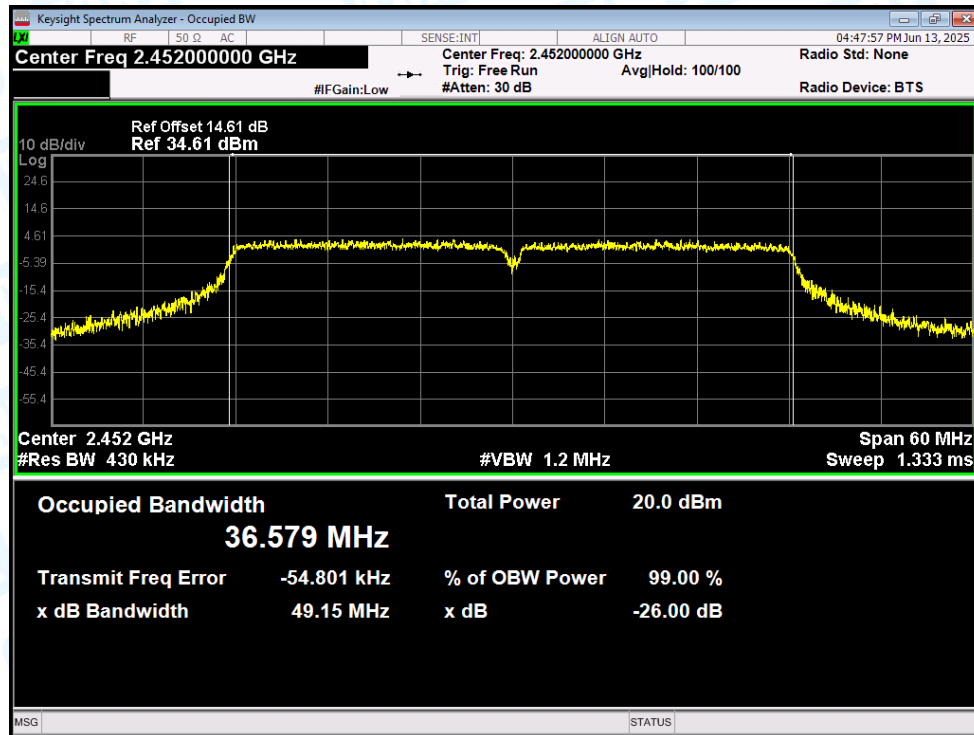
OBW NVNT n(HT40) 2422MHz Ant1



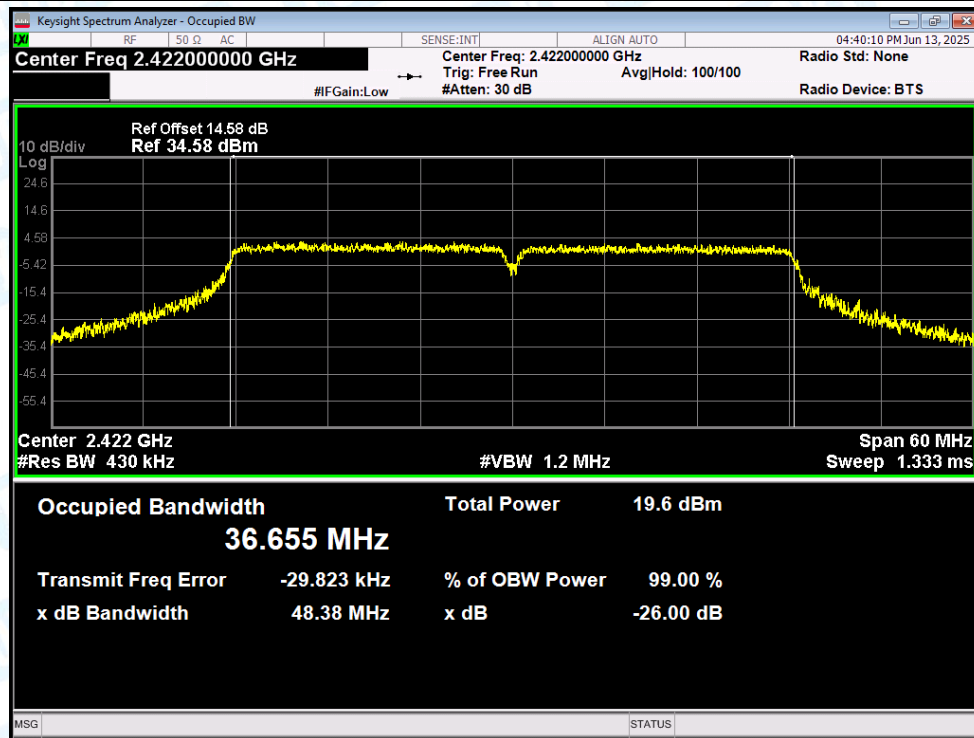
OBW NVNT n(HT40) 2437MHz Ant1



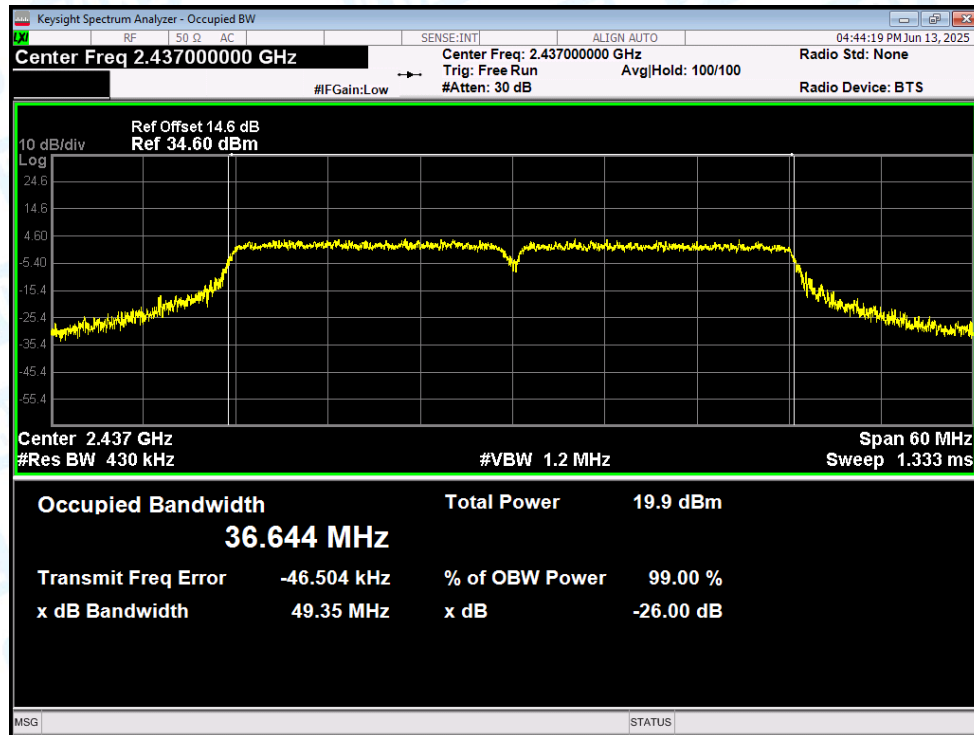
OBW NVNT n(HT40) 2452MHz Ant1



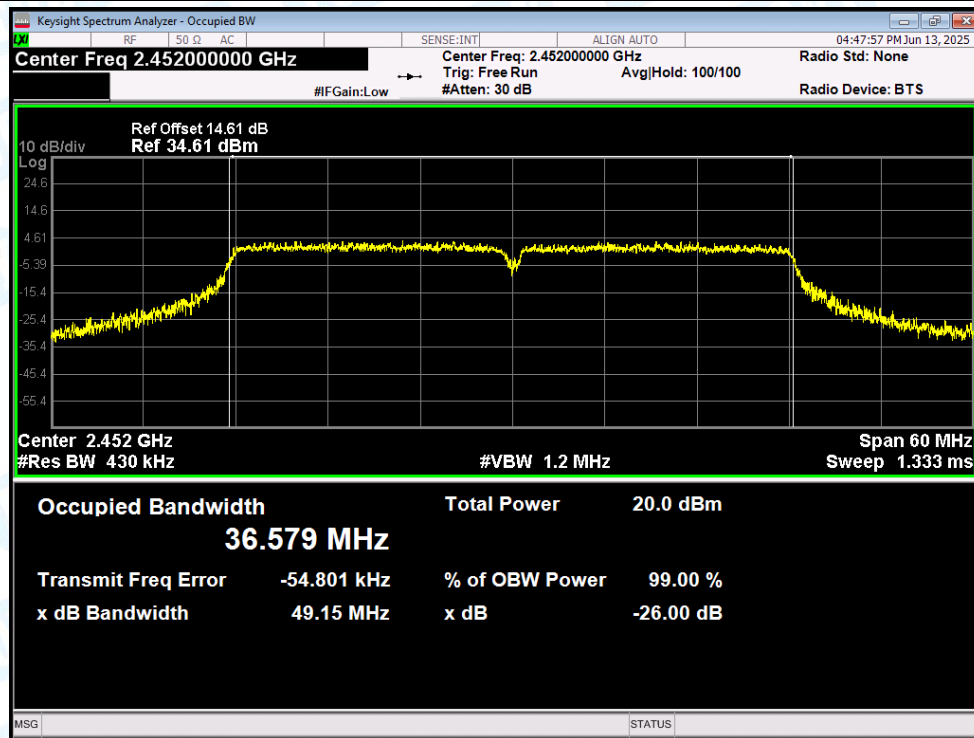
OBW NVNT n(HT40) 2422MHz Ant1



OBW NVNT n(HT40) 2437MHz Ant1



OBW NVNT n(HT40) 2452MHz Ant1



5. Maximum Power Spectral Density Level

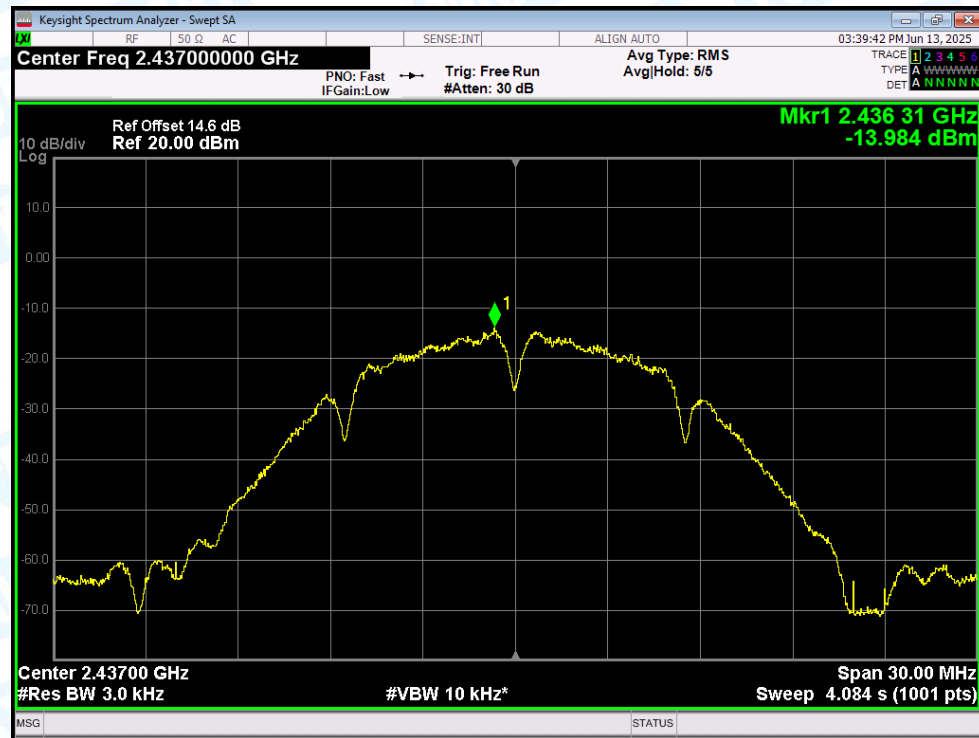
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-14.275	8	Pass
NVNT	b	2437	Ant1	-13.984	8	Pass
NVNT	b	2462	Ant1	-14.146	8	Pass
NVNT	g	2412	Ant1	-20.078	8	Pass
NVNT	g	2437	Ant1	-19.907	8	Pass
NVNT	g	2462	Ant1	-20.451	8	Pass
NVNT	n(HT20)	2412	Ant1	-20.116	8	Pass
NVNT	n(HT20)	2437	Ant1	-20.228	8	Pass
NVNT	n(HT20)	2462	Ant1	-19.984	8	Pass
NVNT	n(HT40)	2422	Ant1	-23.869	8	Pass
NVNT	n(HT40)	2437	Ant1	-23.795	8	Pass
NVNT	n(HT40)	2452	Ant1	-24.014	8	Pass

Test Graphs

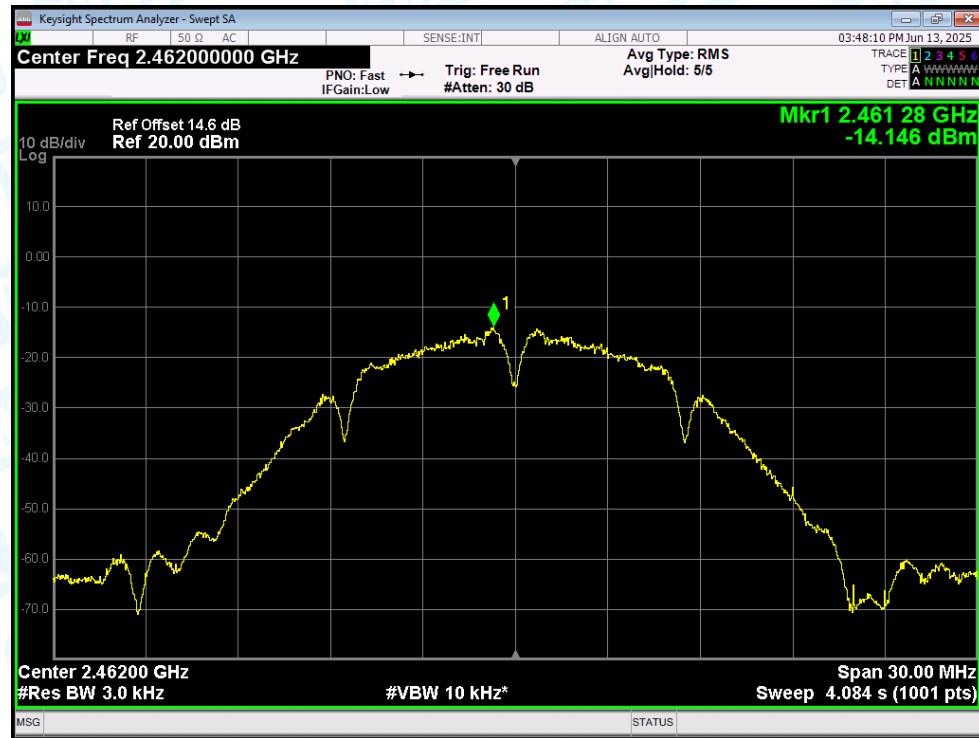
PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1

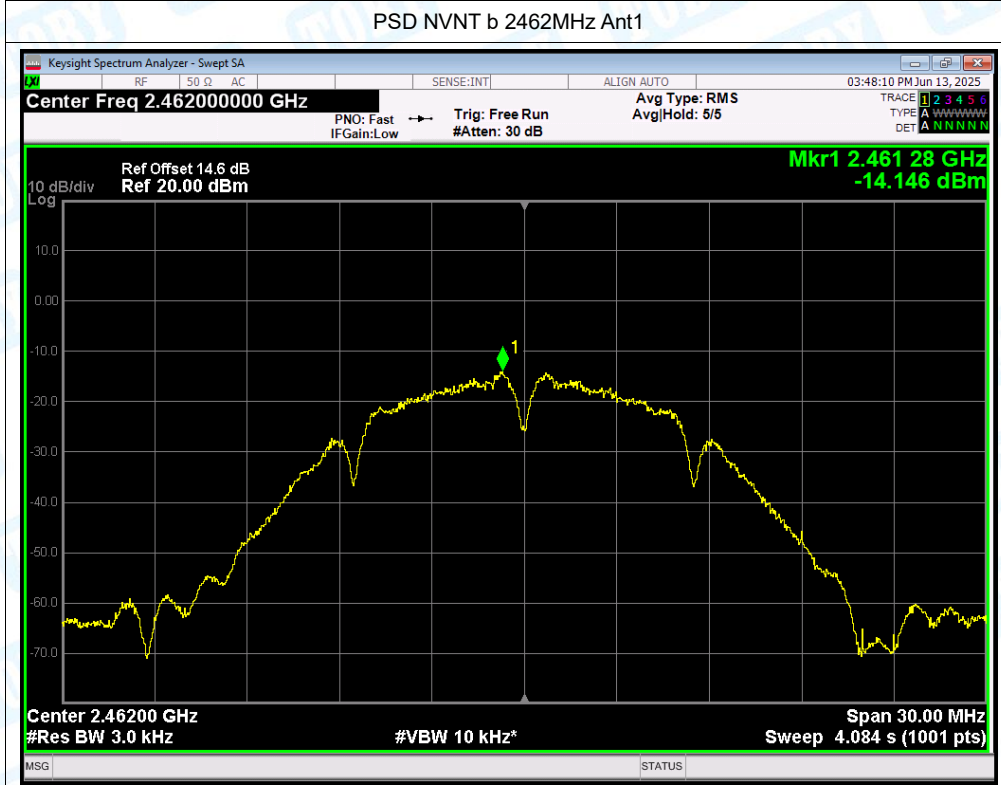
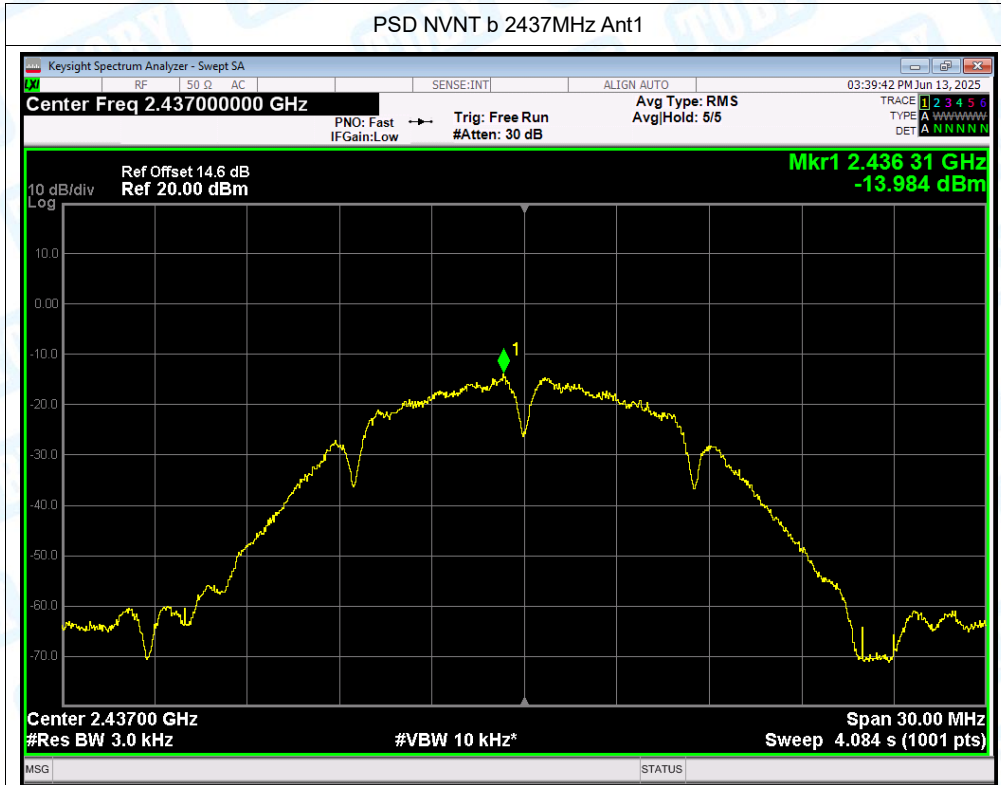


PSD NVNT b 2462MHz Ant1

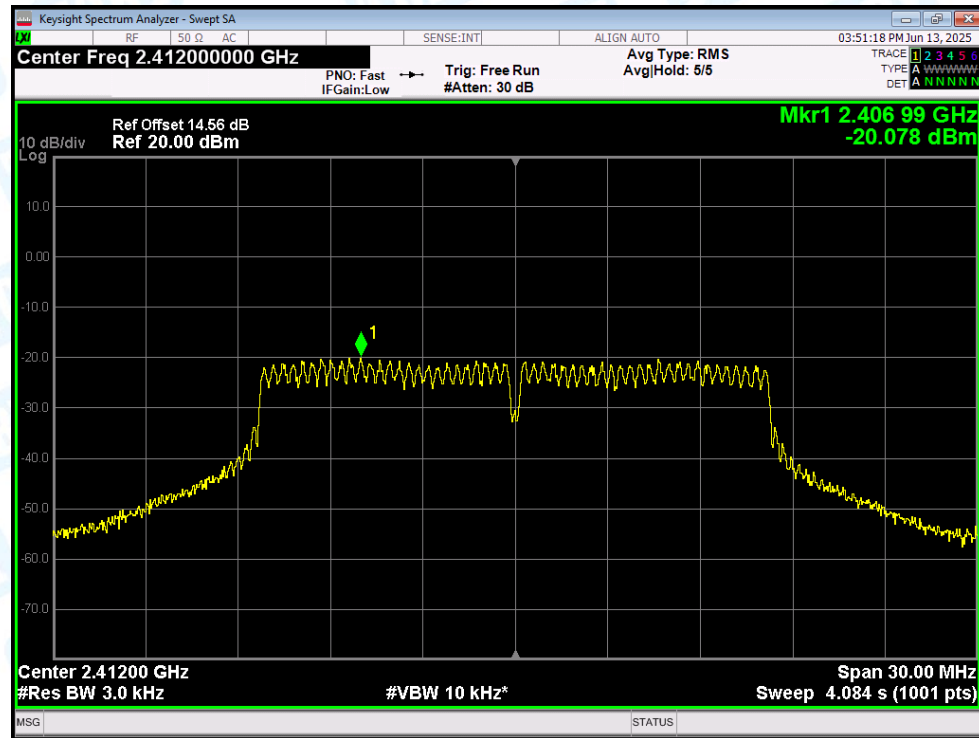


PSD NVNT b 2412MHz Ant1

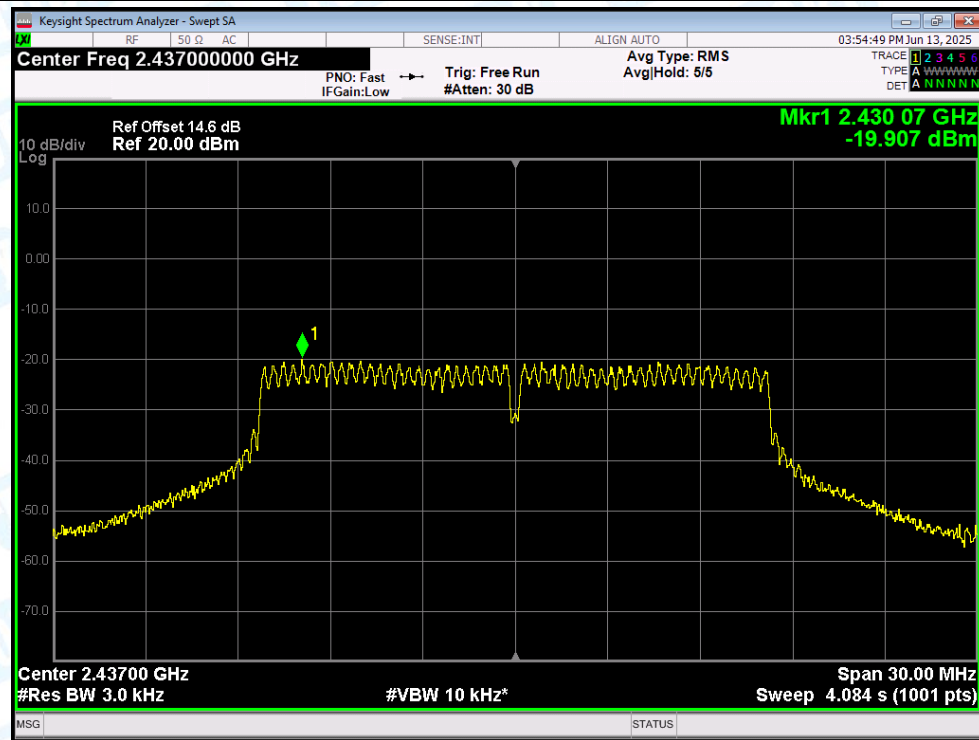


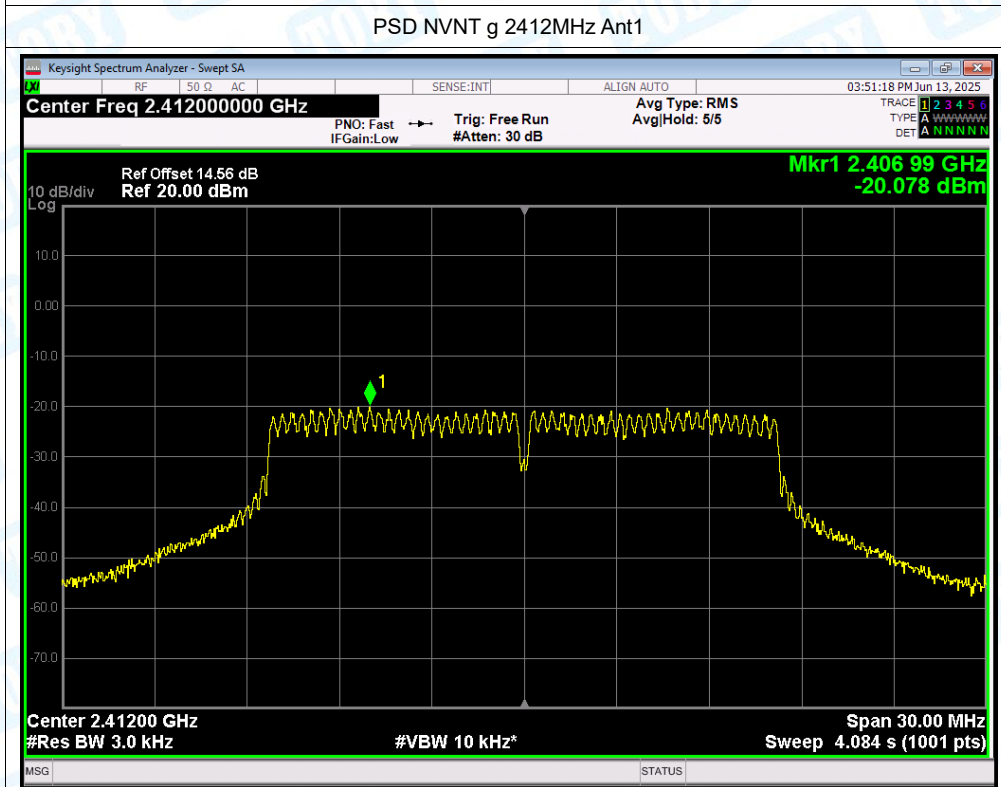
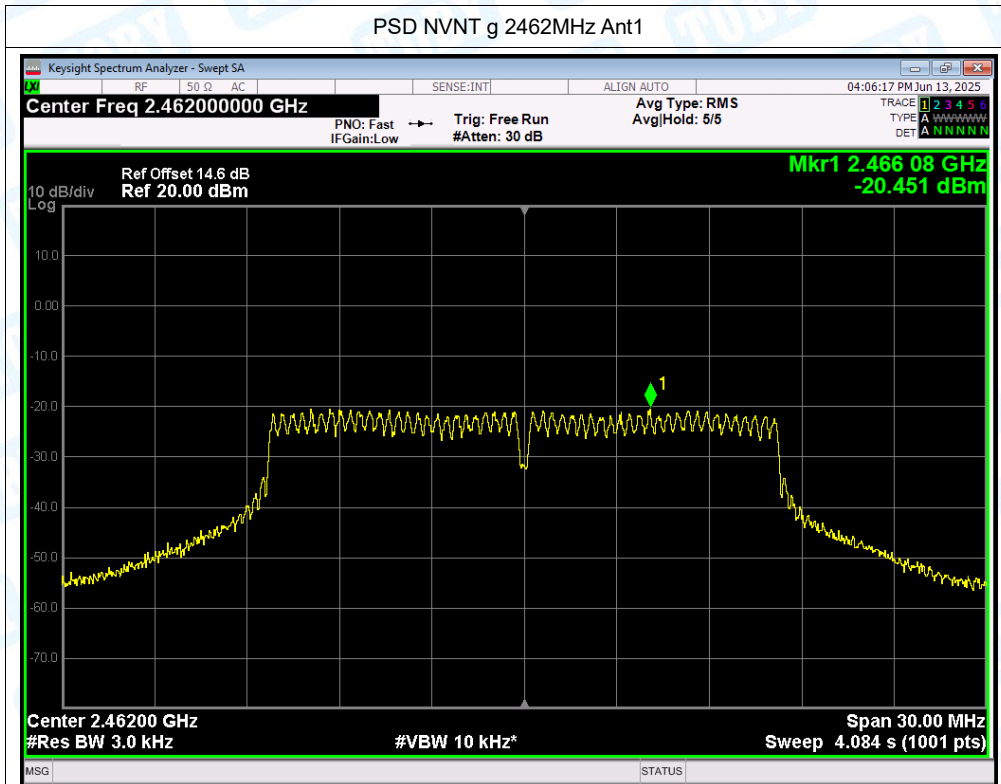


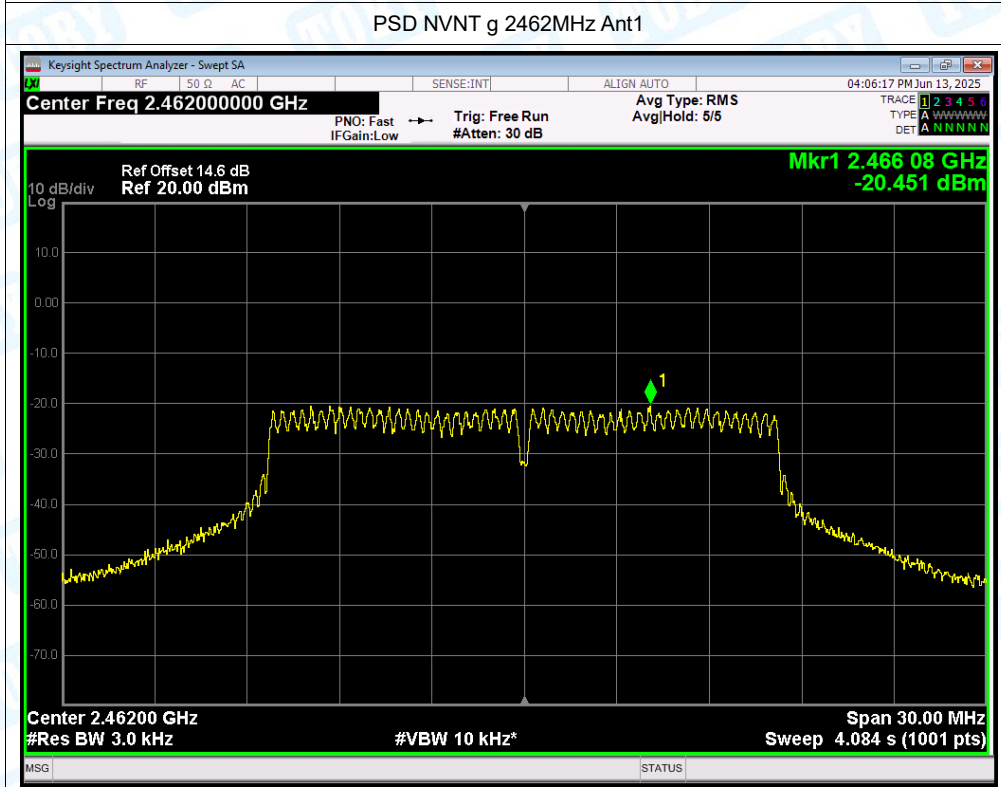
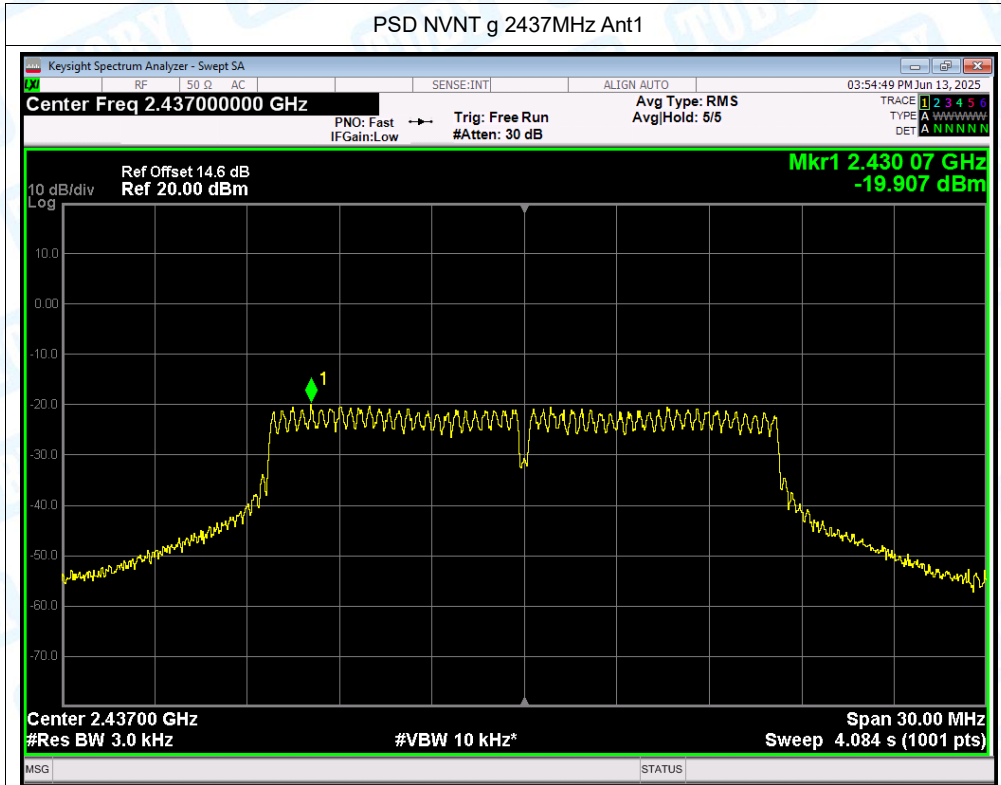
PSD NVNT g 2412MHz Ant1



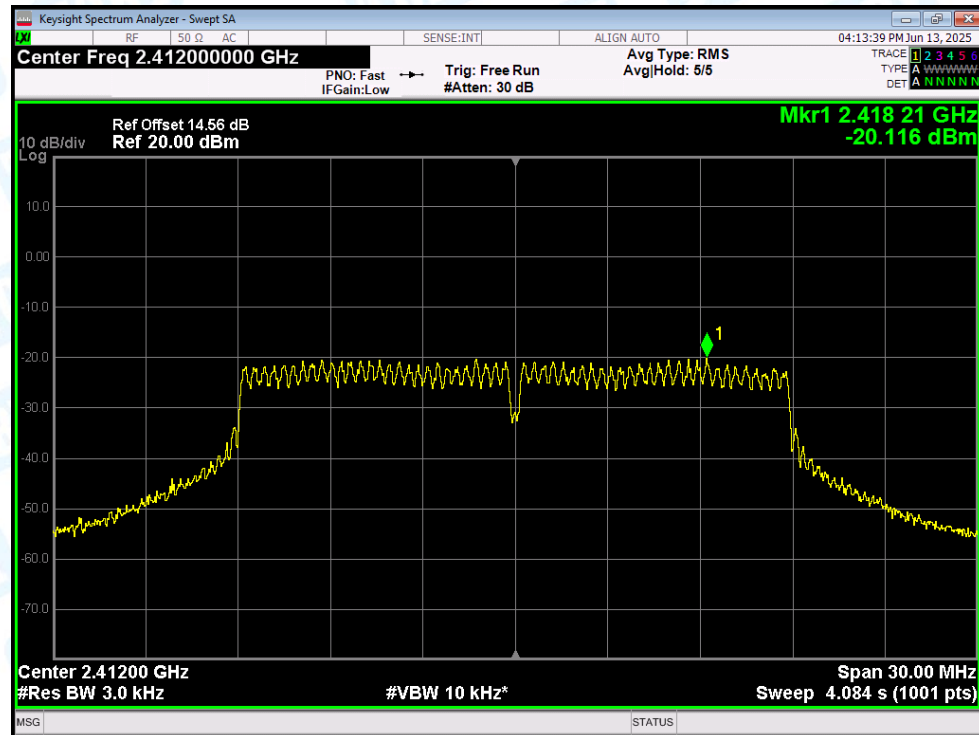
PSD NVNT g 2437MHz Ant1



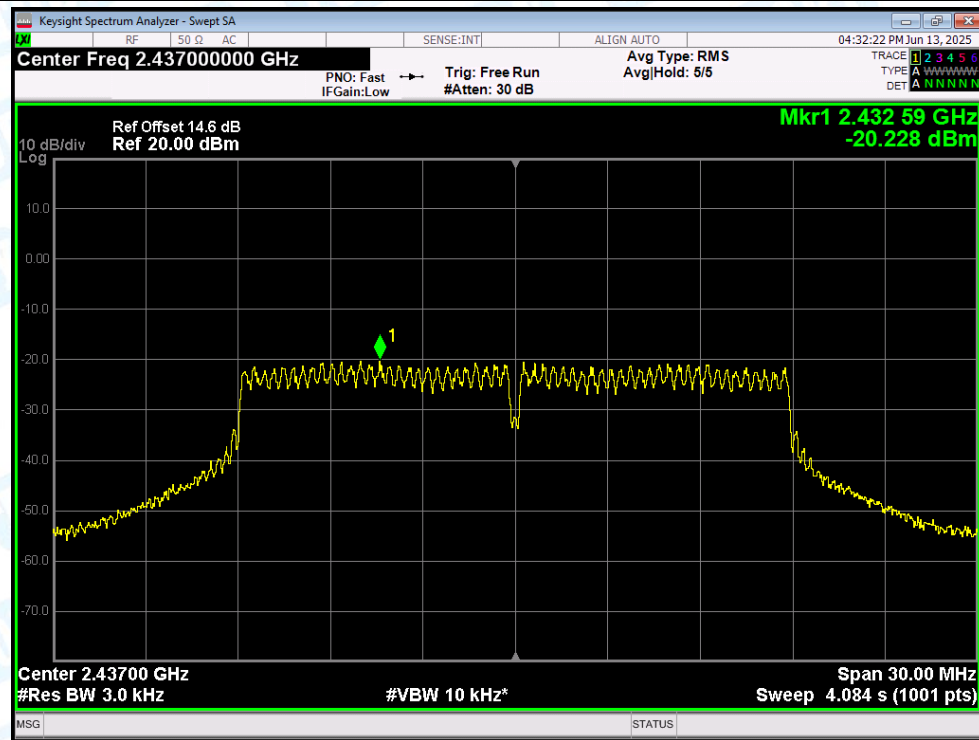




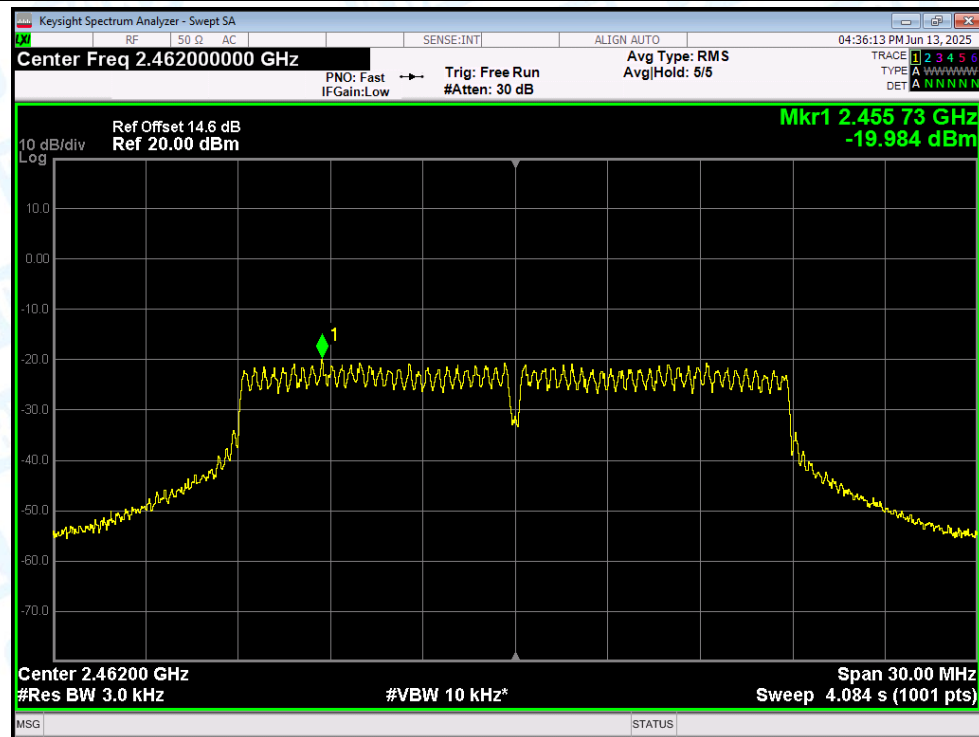
PSD NVNT n(HT20) 2412MHz Ant1



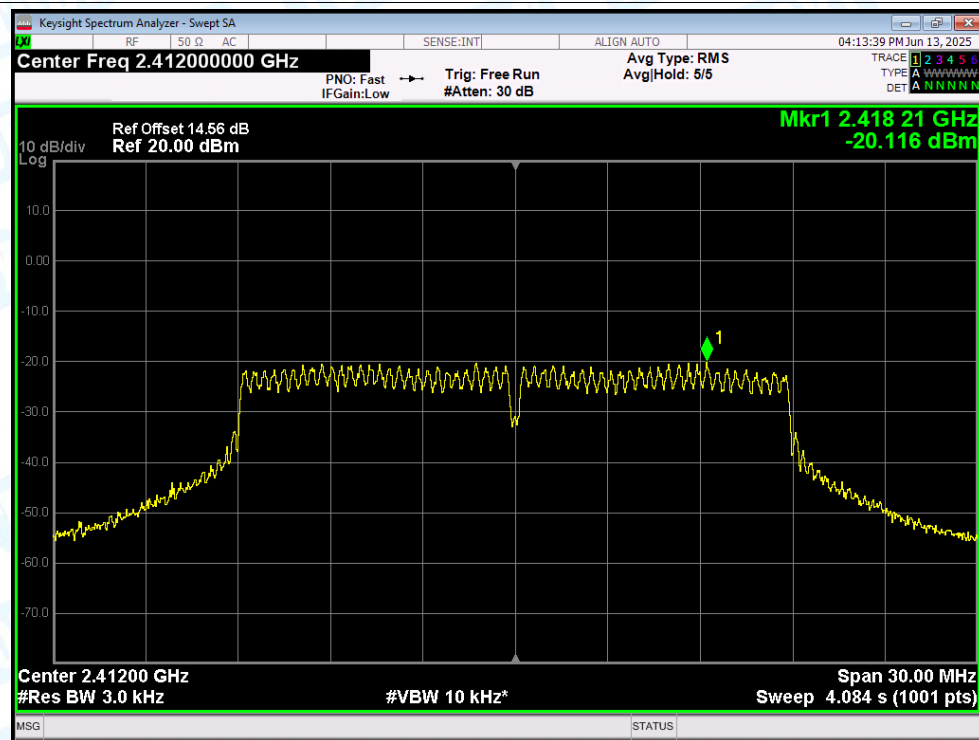
PSD NVNT n(HT20) 2437MHz Ant1



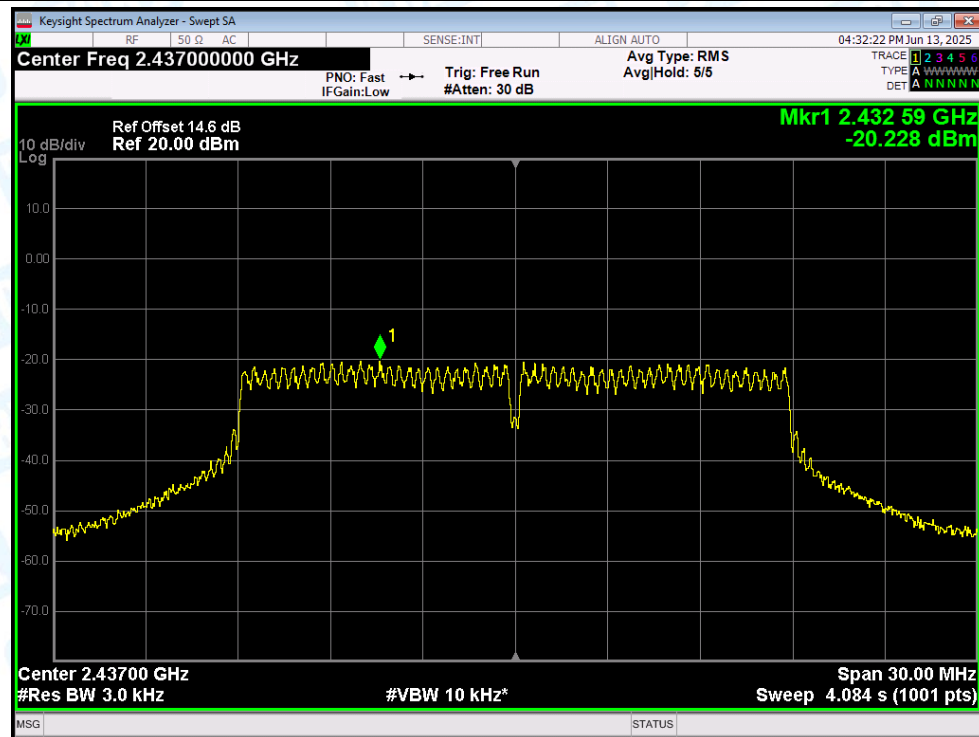
PSD NVNT n(HT20) 2462MHz Ant1



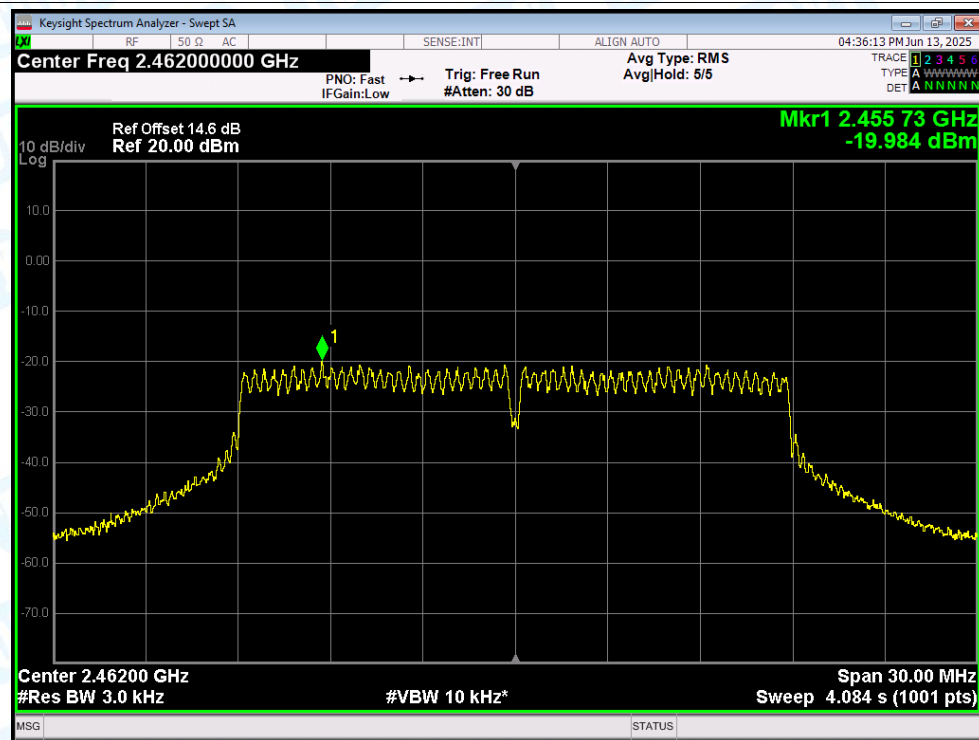
PSD NVNT n(HT20) 2412MHz Ant1



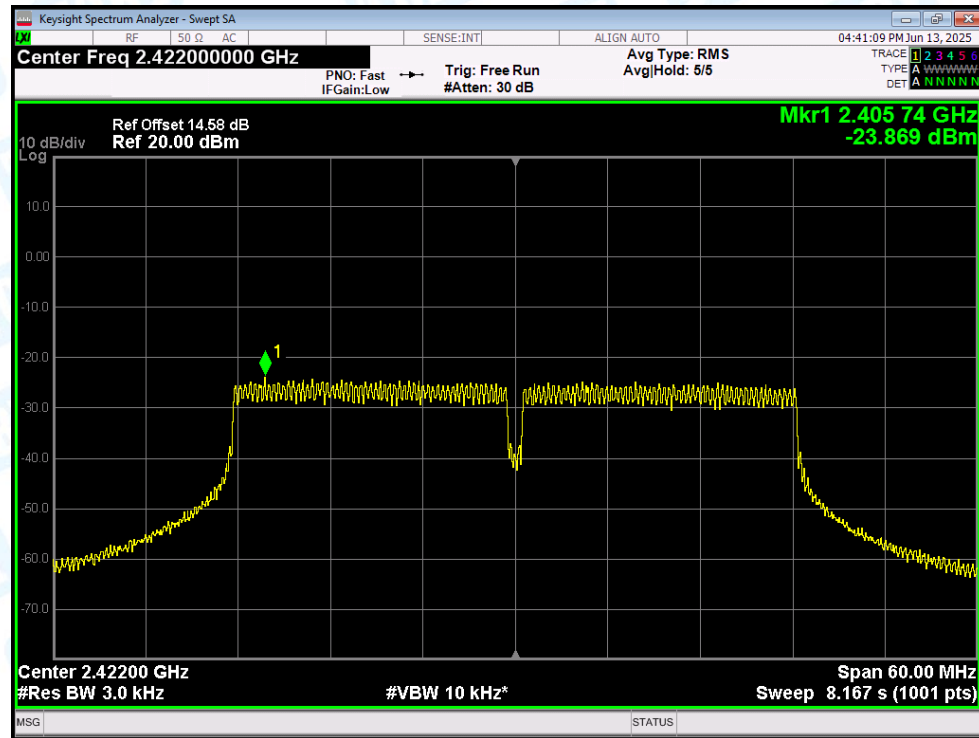
PSD NVNT n(HT20) 2437MHz Ant1



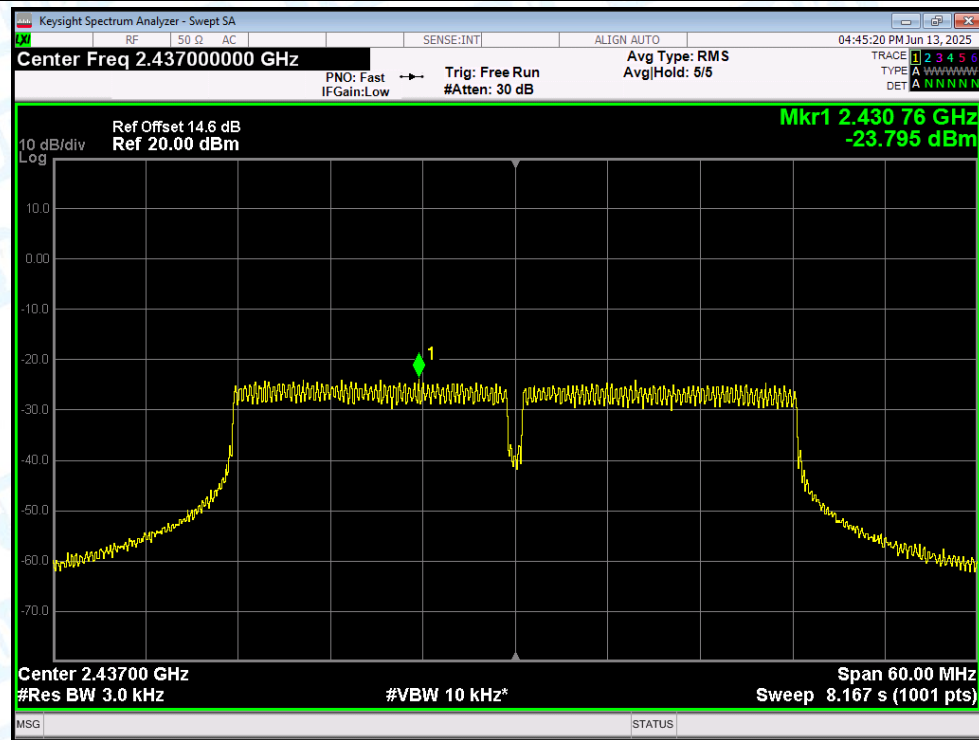
PSD NVNT n(HT20) 2462MHz Ant1



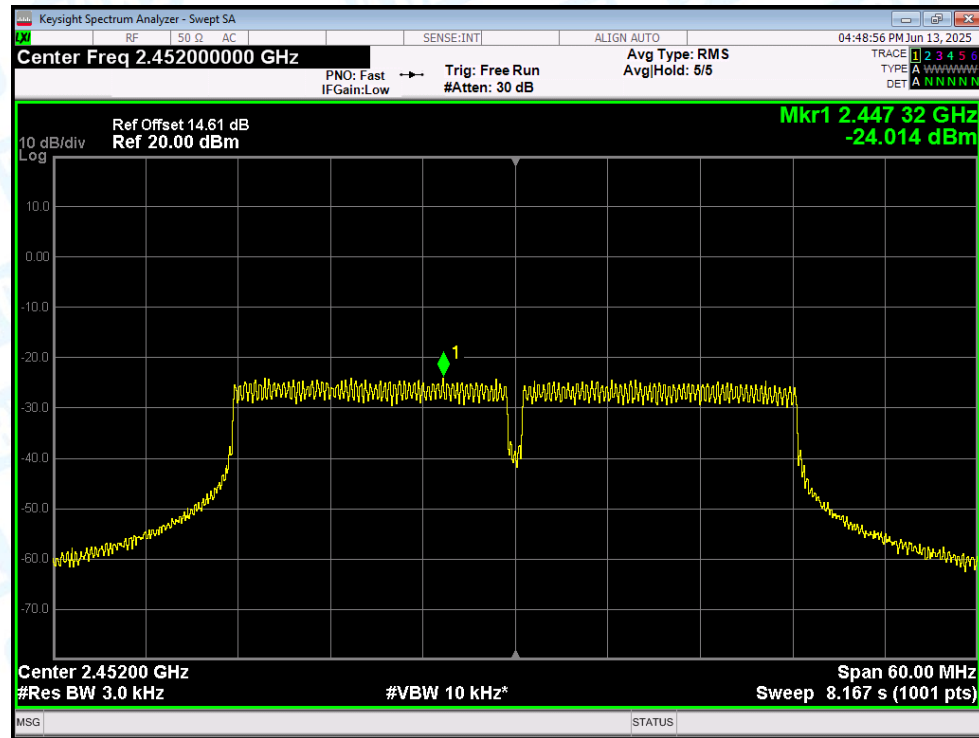
PSD NVNT n(HT40) 2422MHz Ant1



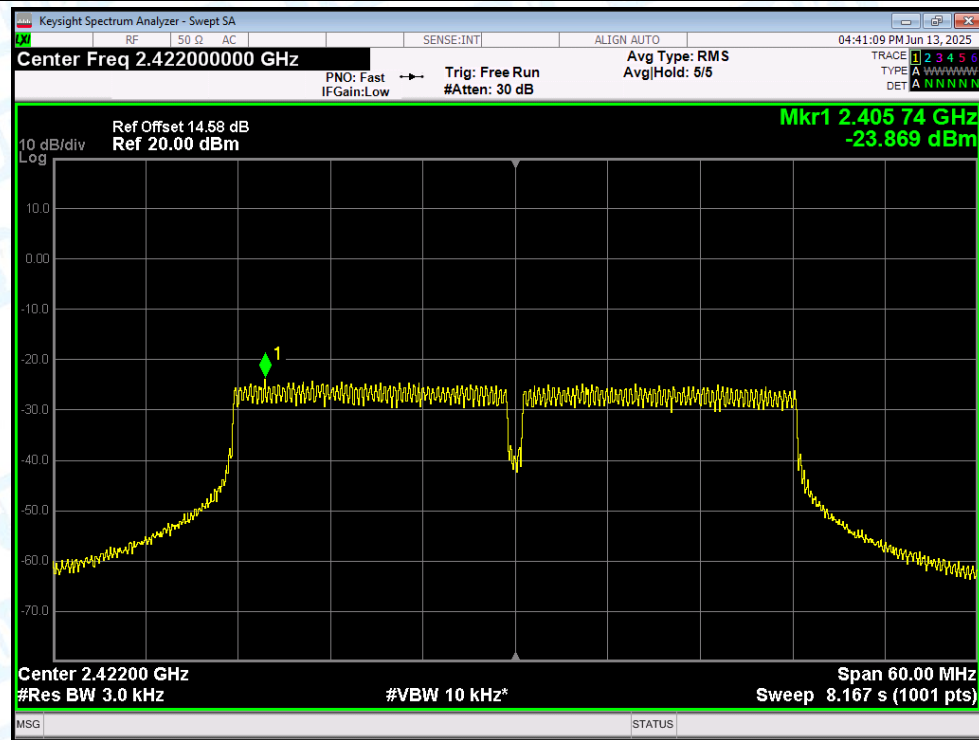
PSD NVNT n(HT40) 2437MHz Ant1



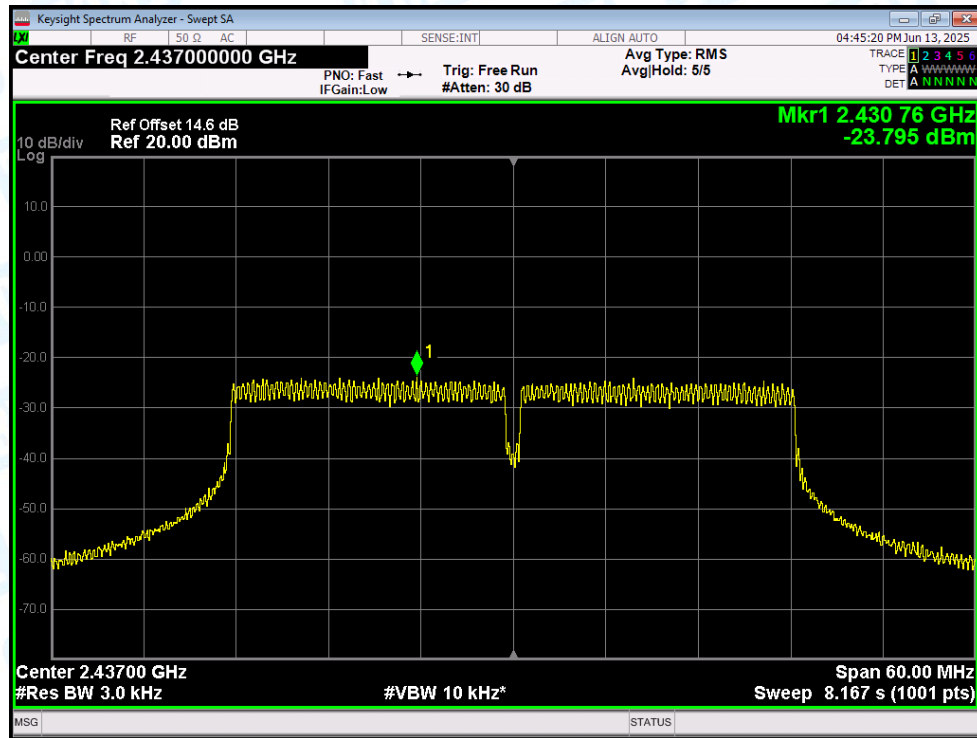
PSD NVNT n(HT40) 2452MHz Ant1



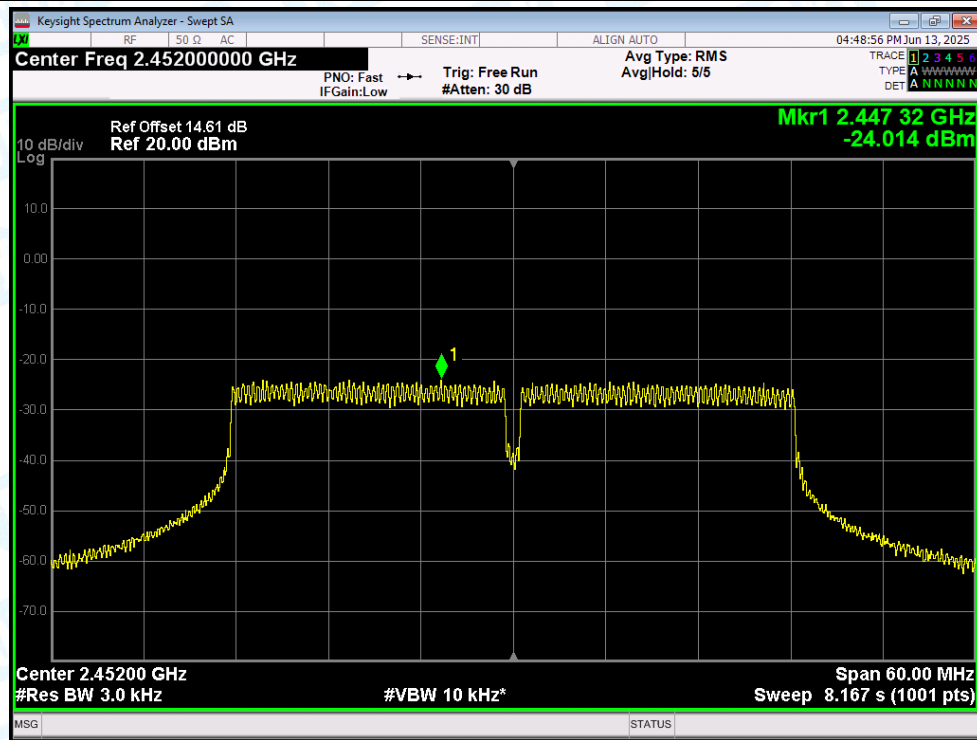
PSD NVNT n(HT40) 2422MHz Ant1



PSD NVNT n(HT40) 2437MHz Ant1



PSD NVNT n(HT40) 2452MHz Ant1

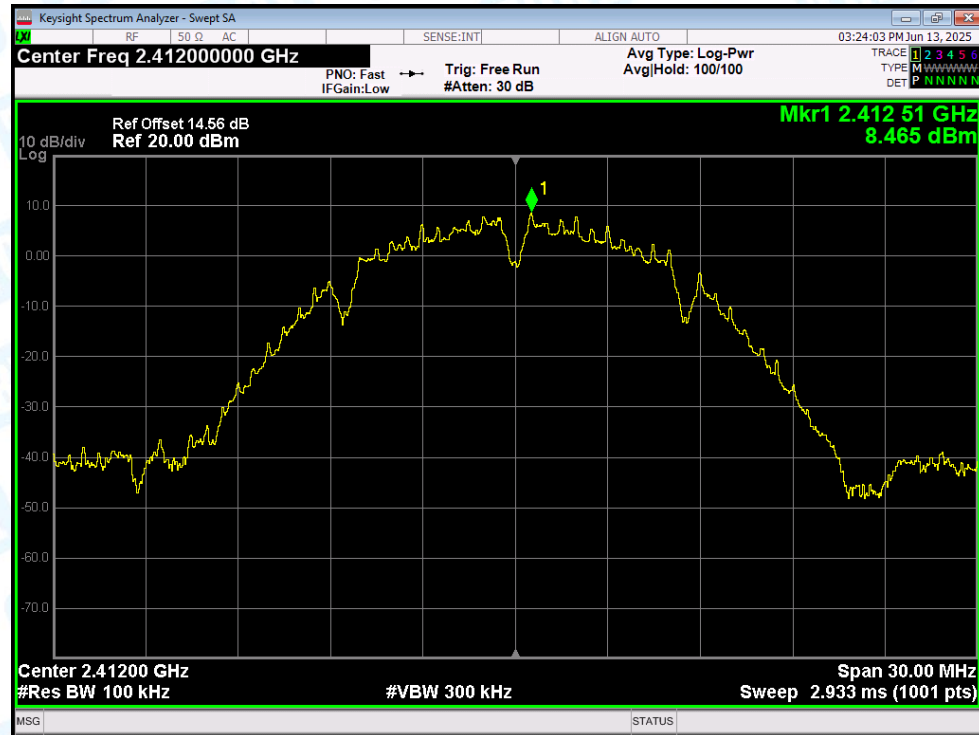


6. Band Edge

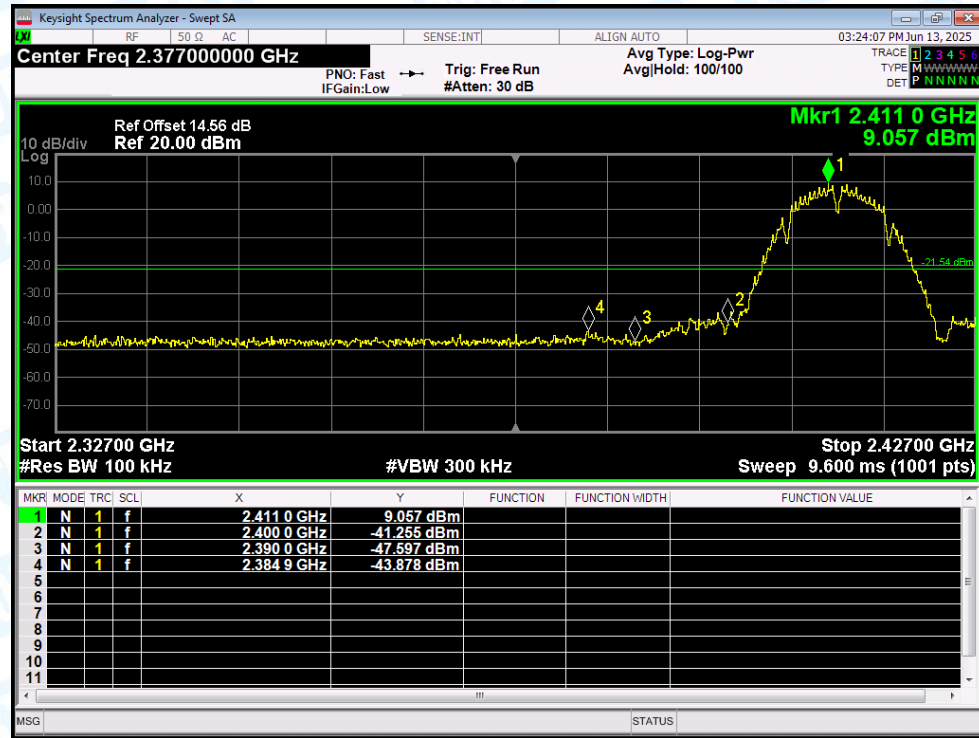
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-52.35	-30	Pass
NVNT	b	2462	Ant1	-53.72	-30	Pass
NVNT	g	2412	Ant1	-43.4	-30	Pass
NVNT	g	2462	Ant1	-42.13	-30	Pass
NVNT	n(HT20)	2412	Ant1	-41.8	-30	Pass
NVNT	n(HT20)	2462	Ant1	-39.56	-30	Pass
NVNT	n(HT40)	2422	Ant1	-34.87	-30	Pass
NVNT	n(HT40)	2452	Ant1	-33.1	-30	Pass

Test Graphs

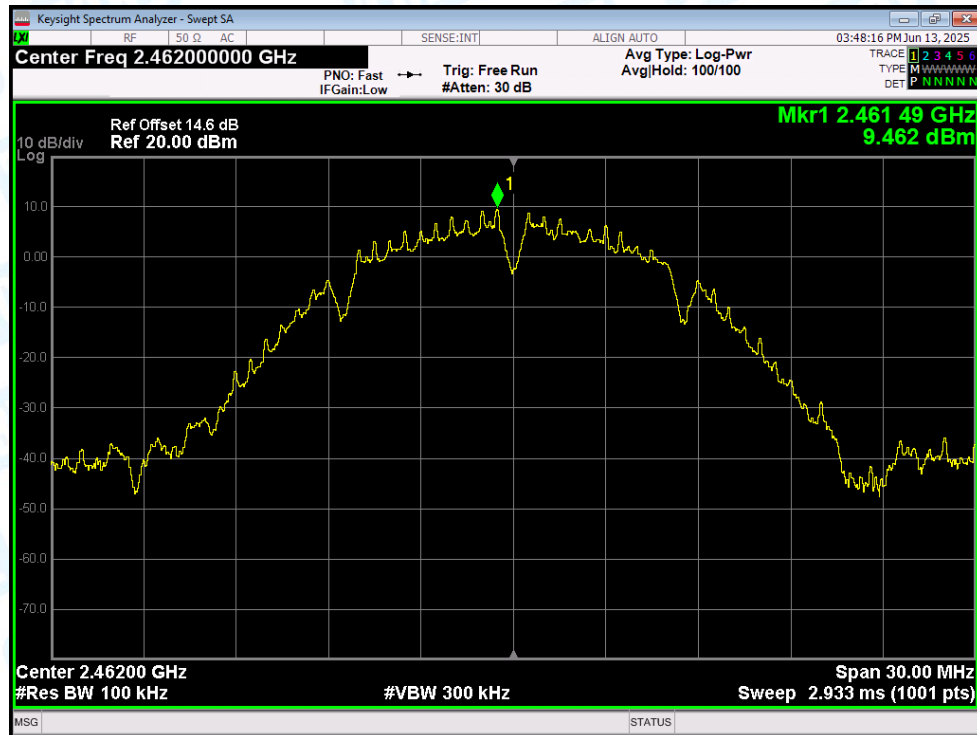
Band Edge NVNT b 2412MHz Ant1 Ref



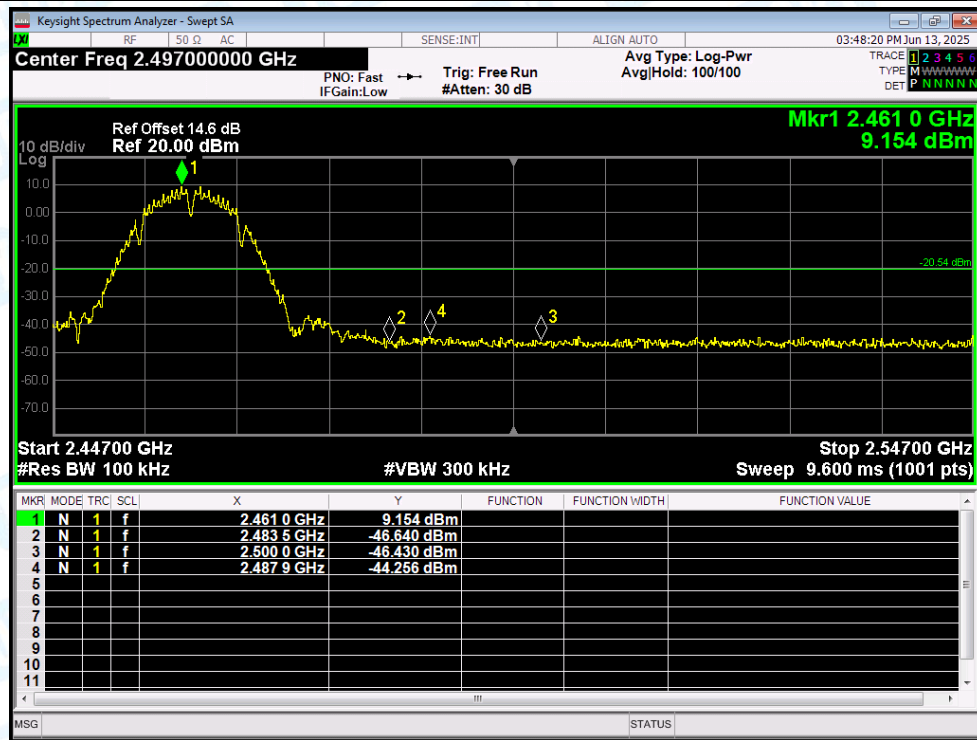
Band Edge NVNT b 2412MHz Ant1 Emission



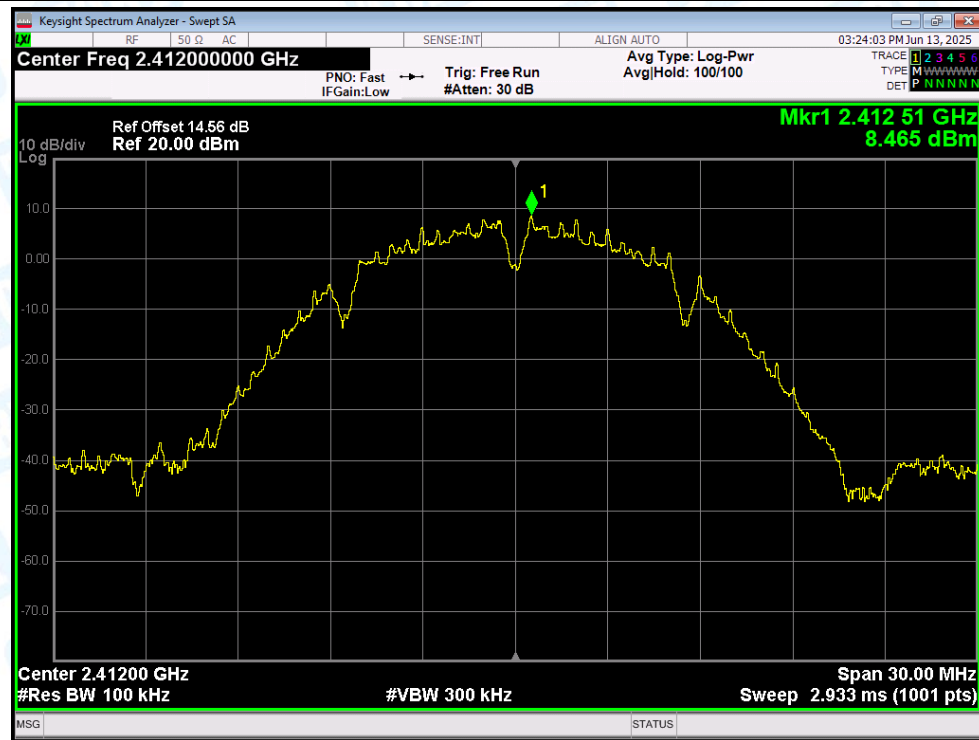
Band Edge NVNT b 2462MHz Ant1 Ref



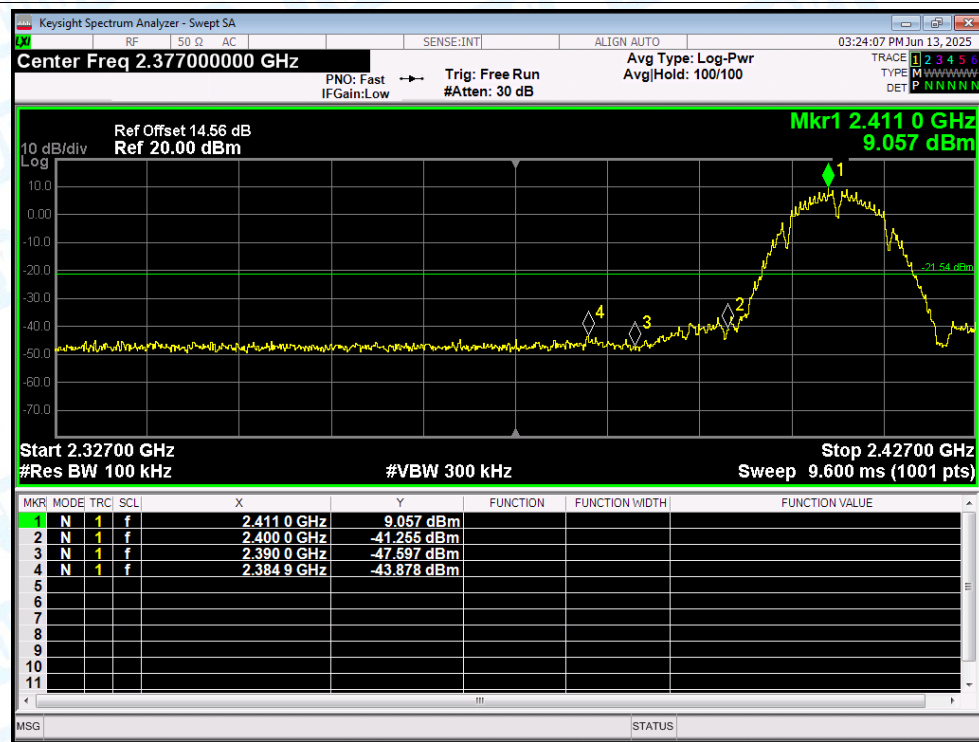
Band Edge NVNT b 2462MHz Ant1 Emission



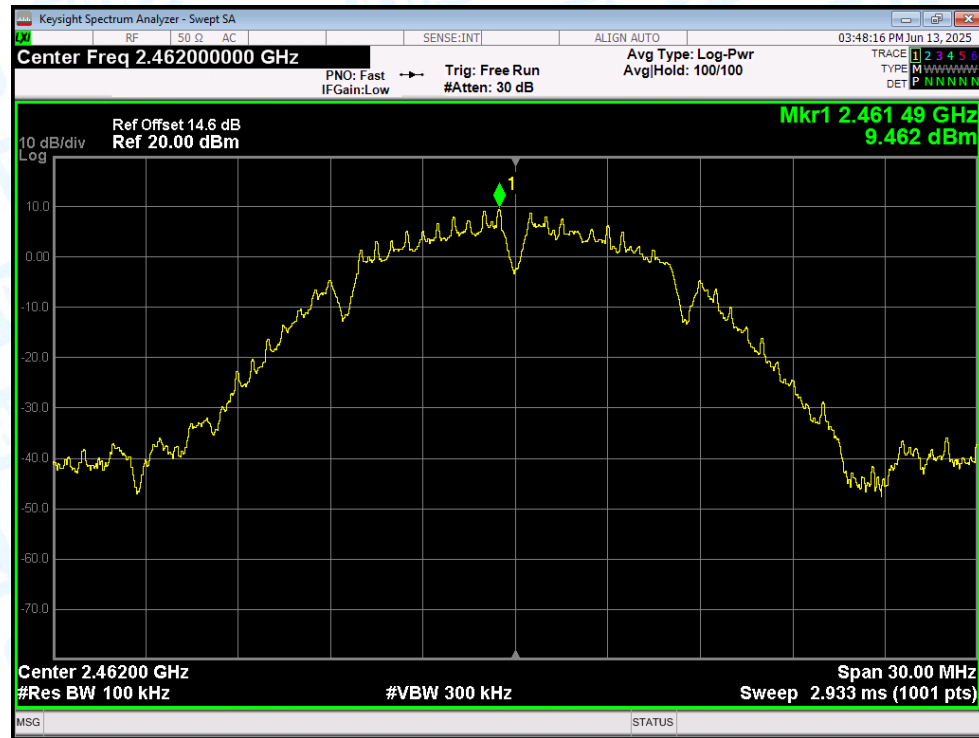
Band Edge NVNT b 2412MHz Ant1 Ref



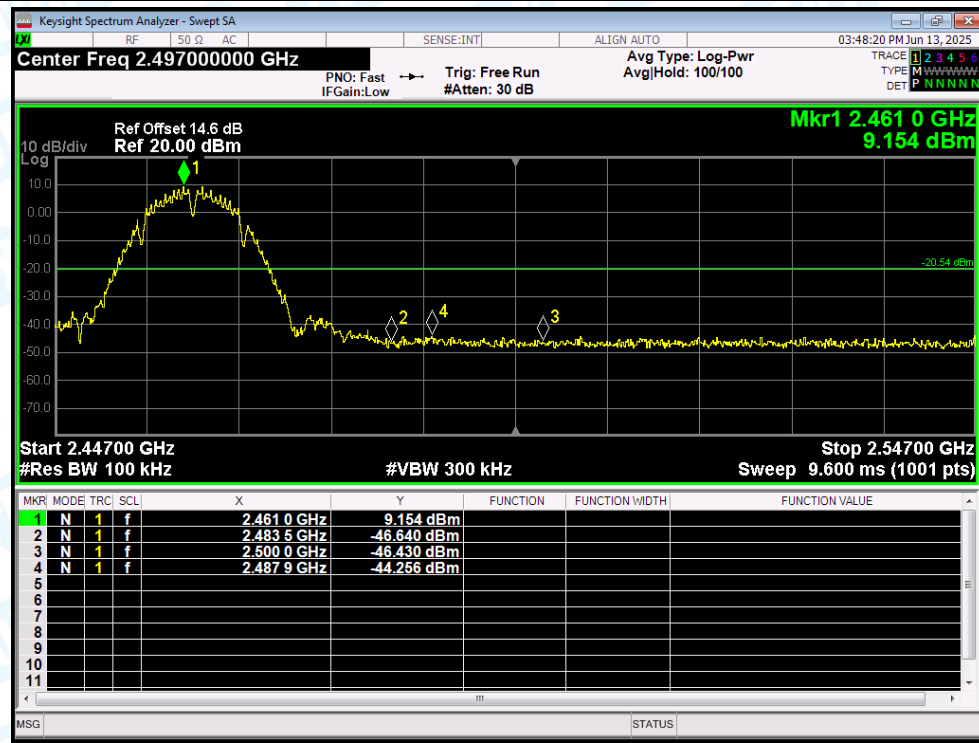
Band Edge NVNT b 2412MHz Ant1 Emission



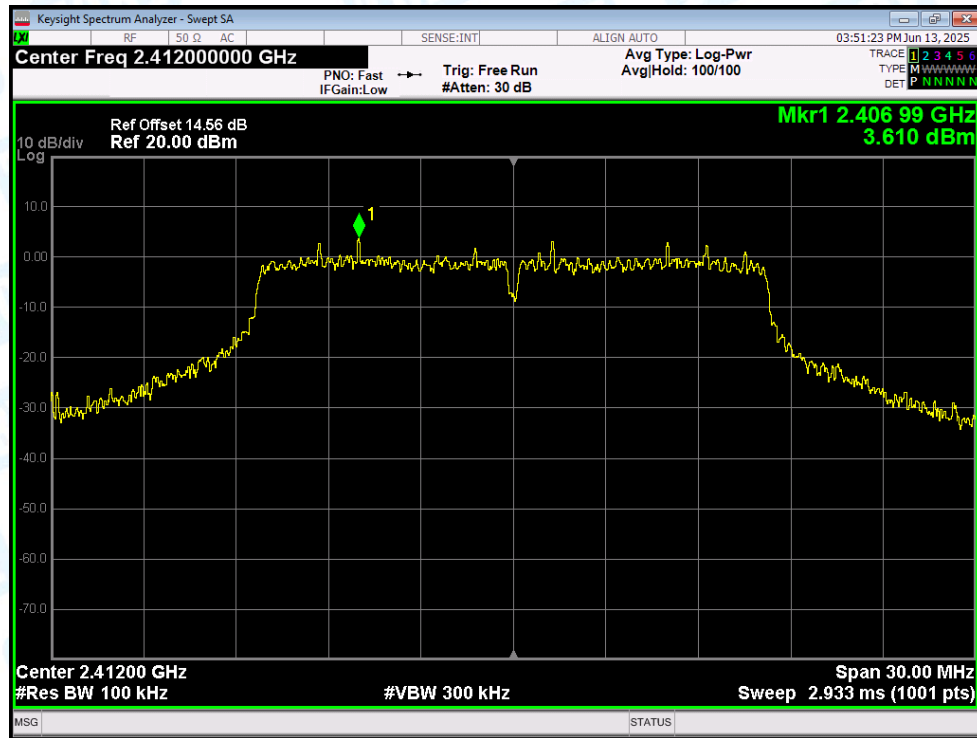
Band Edge NVNT b 2462MHz Ant1 Ref



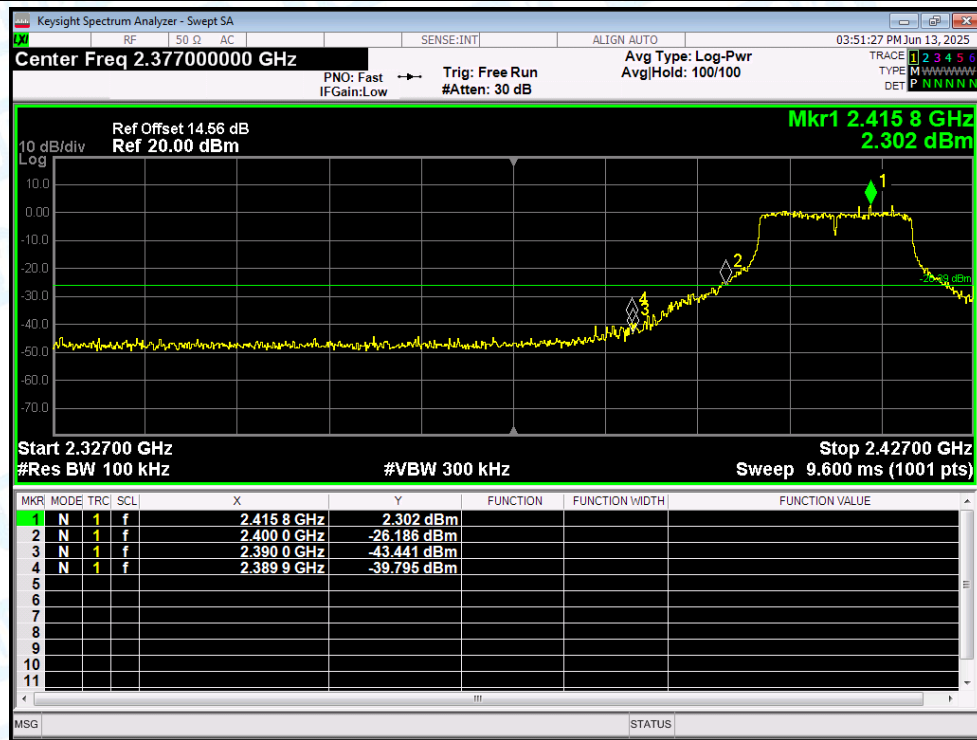
Band Edge NVNT b 2462MHz Ant1 Emission



Band Edge NVNT g 2412MHz Ant1 Ref



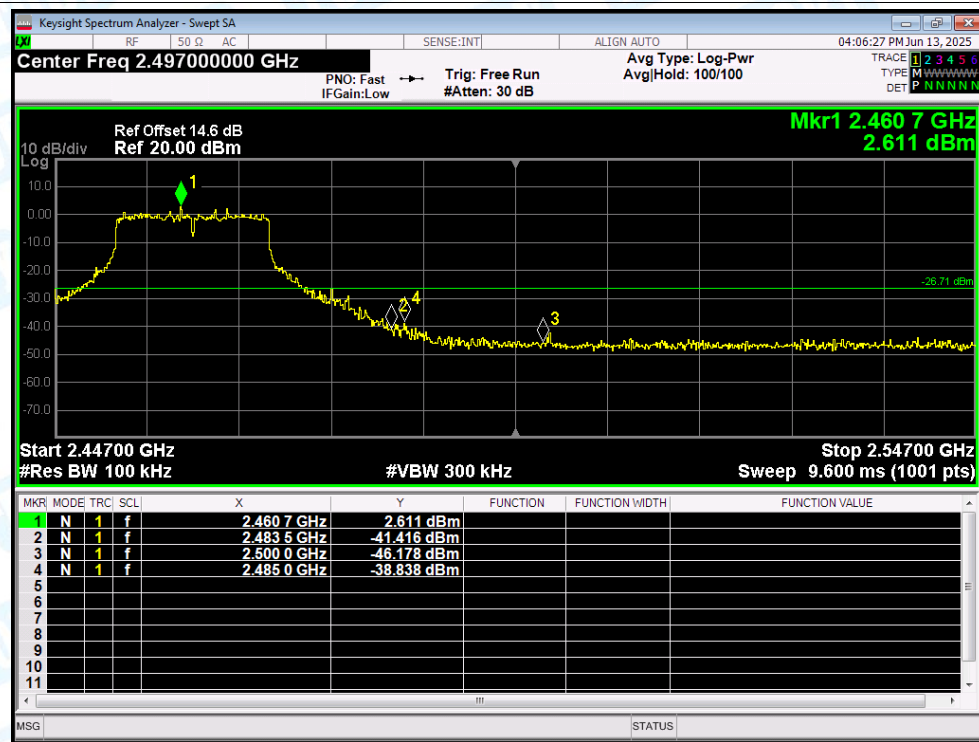
Band Edge NVNT g 2412MHz Ant1 Emission



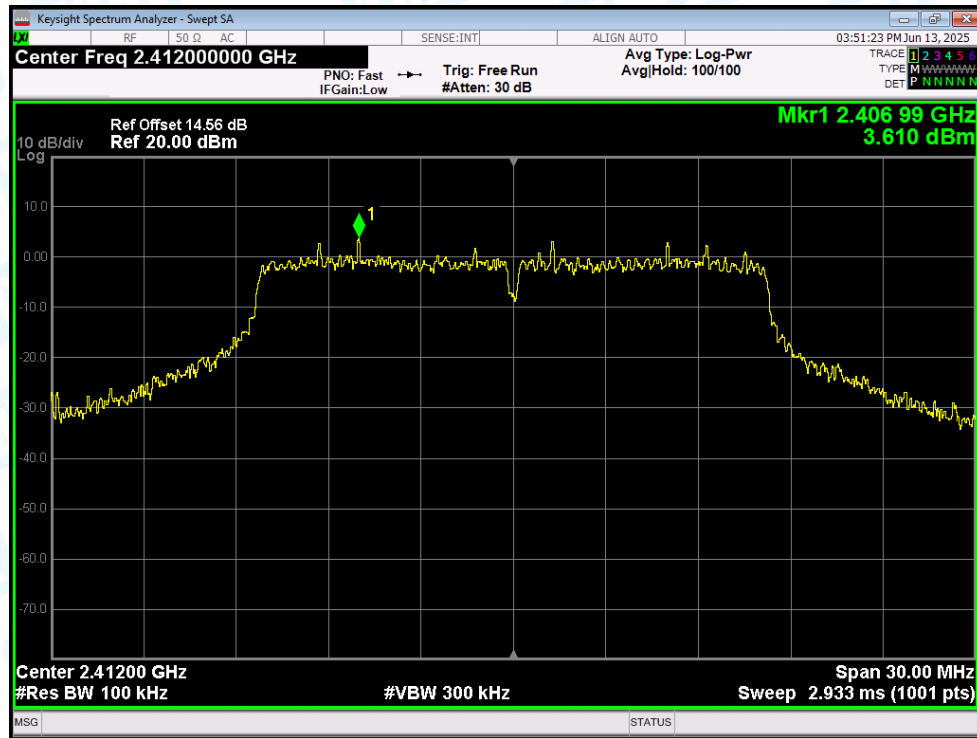
Band Edge NVNT g 2462MHz Ant1 Ref



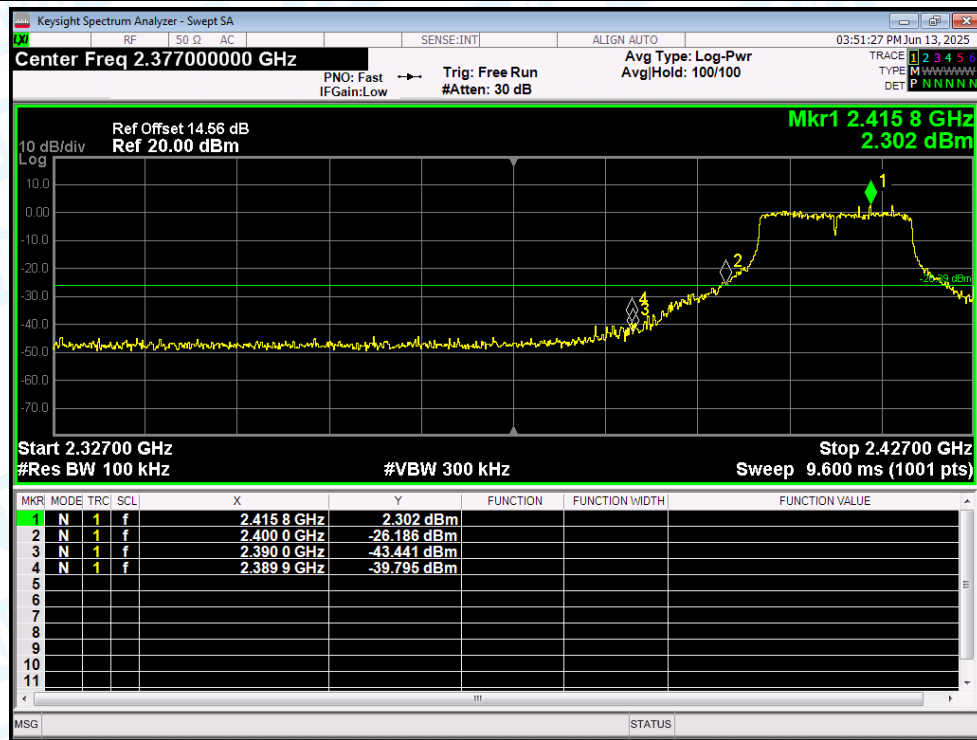
Band Edge NVNT g 2462MHz Ant1 Emission



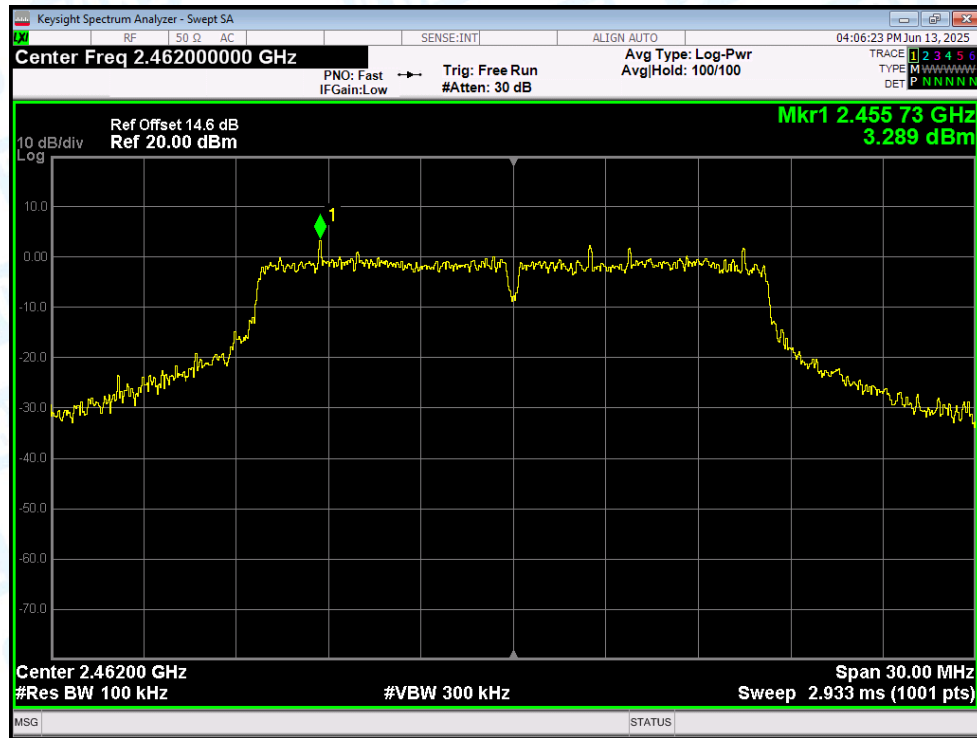
Band Edge NVNT g 2412MHz Ant1 Ref



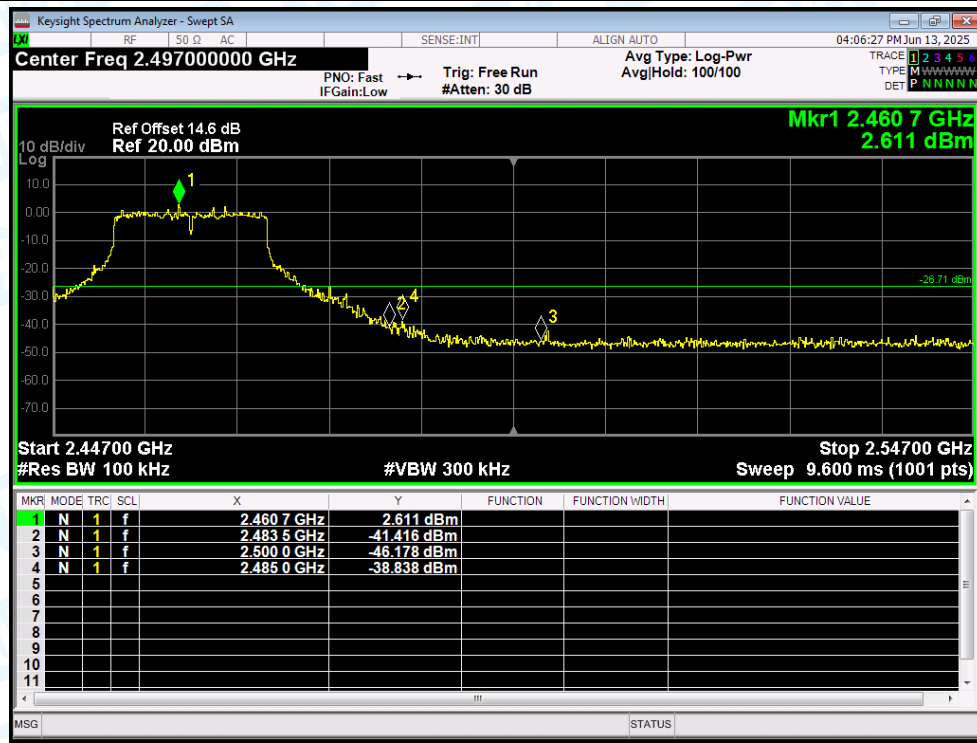
Band Edge NVNT g 2412MHz Ant1 Emission



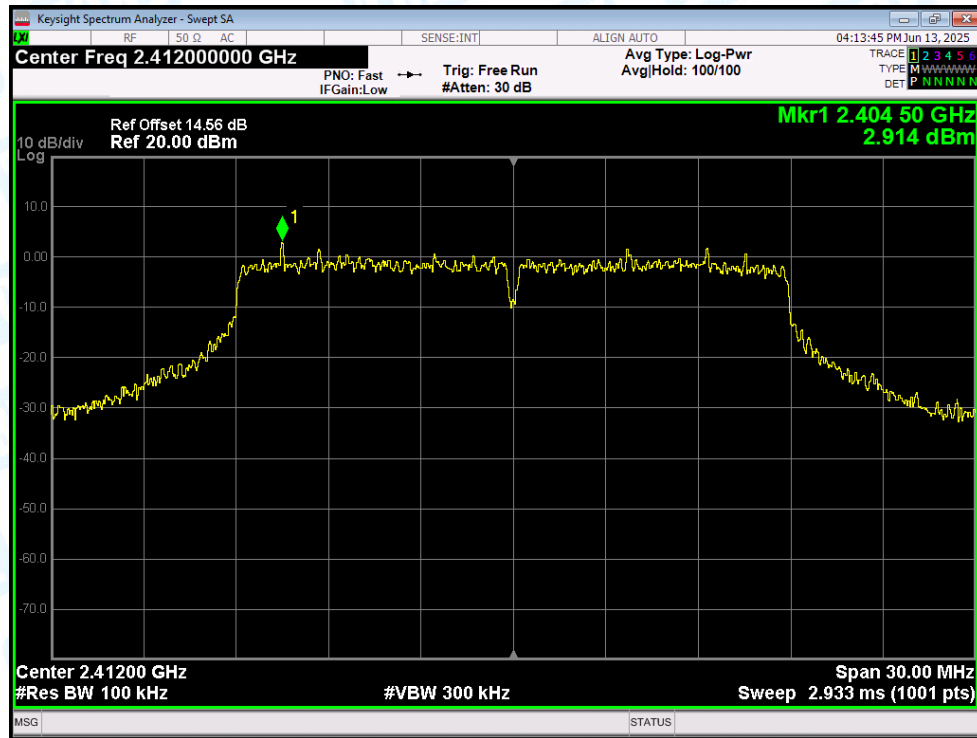
Band Edge NVNT g 2462MHz Ant1 Ref



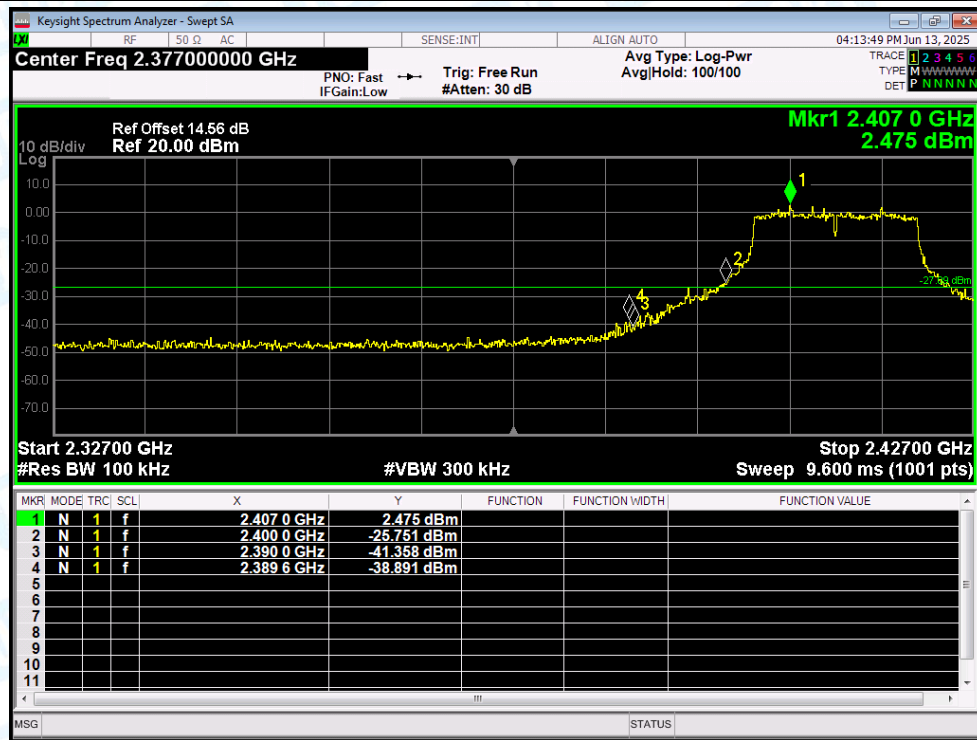
Band Edge NVNT g 2462MHz Ant1 Emission



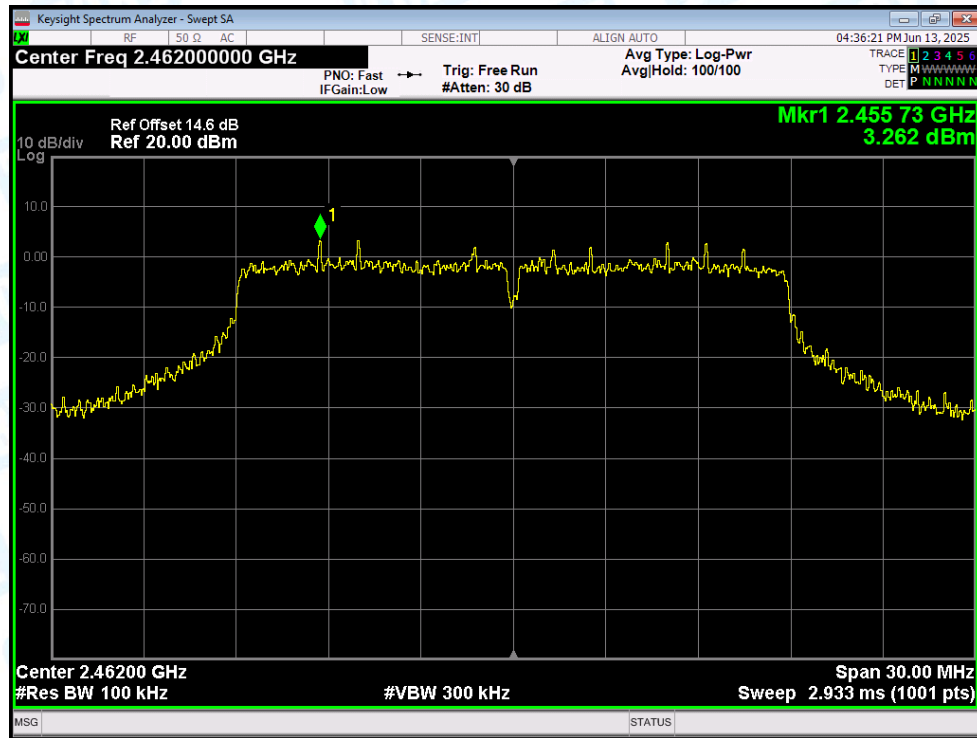
Band Edge NVNT n(HT20) 2412MHz Ant1 Ref



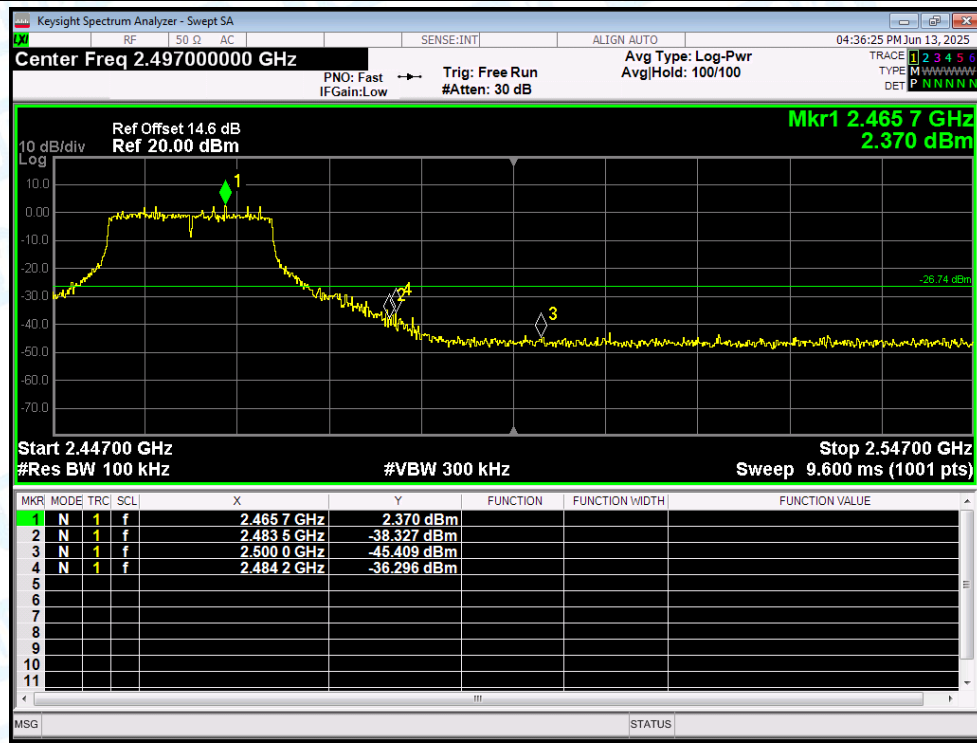
Band Edge NVNT n(HT20) 2412MHz Ant1 Emission



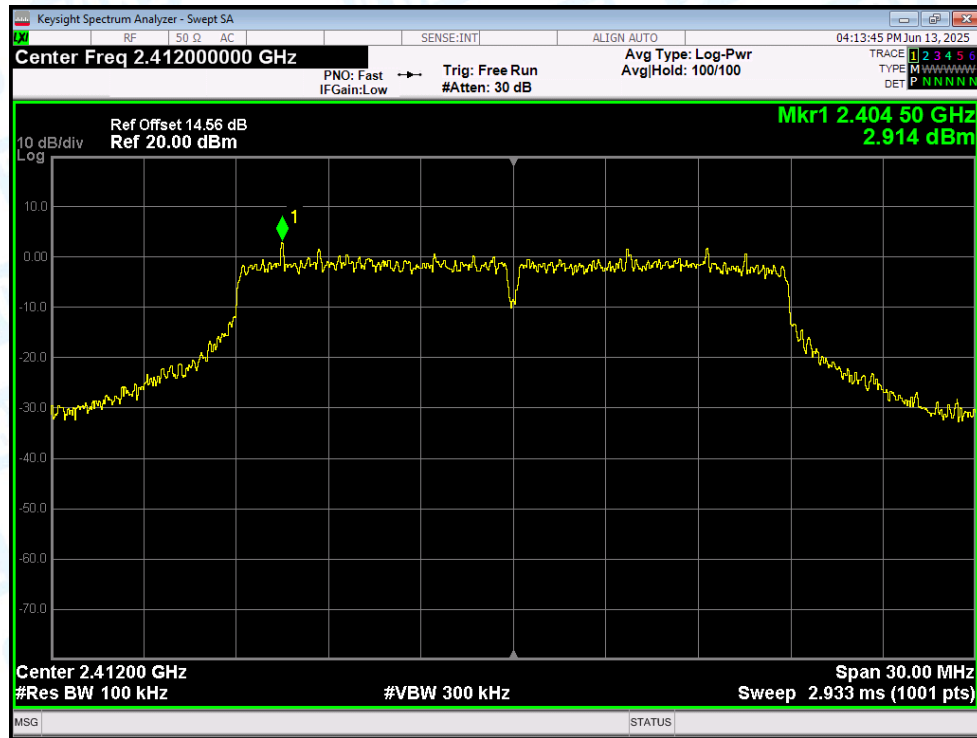
Band Edge NVNT n(HT20) 2462MHz Ant1 Ref



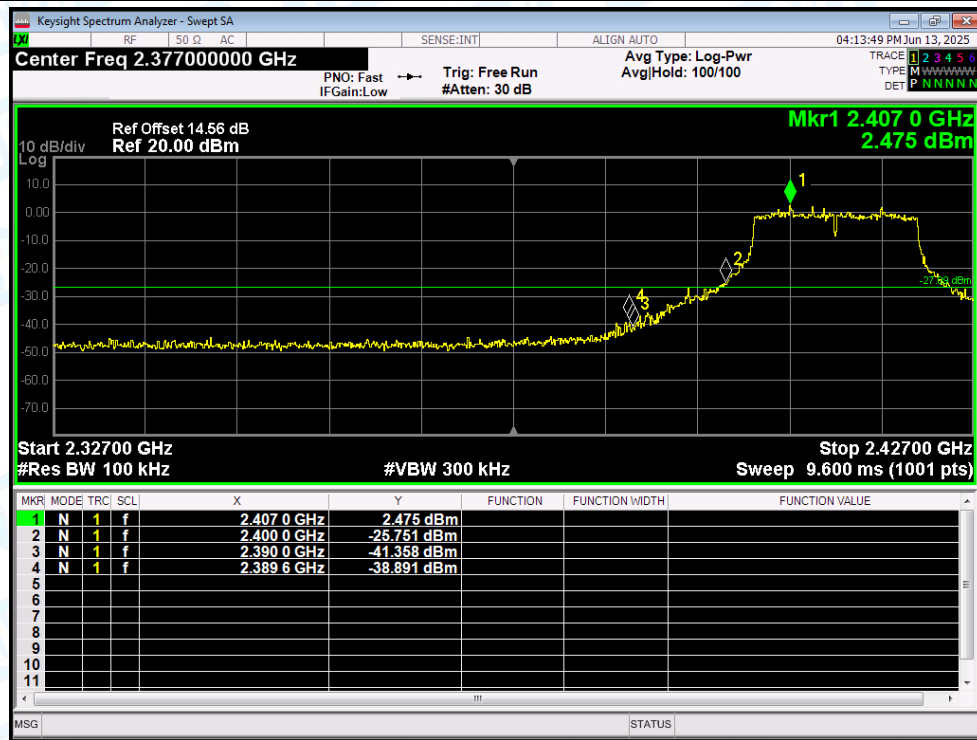
Band Edge NVNT n(HT20) 2462MHz Ant1 Emission



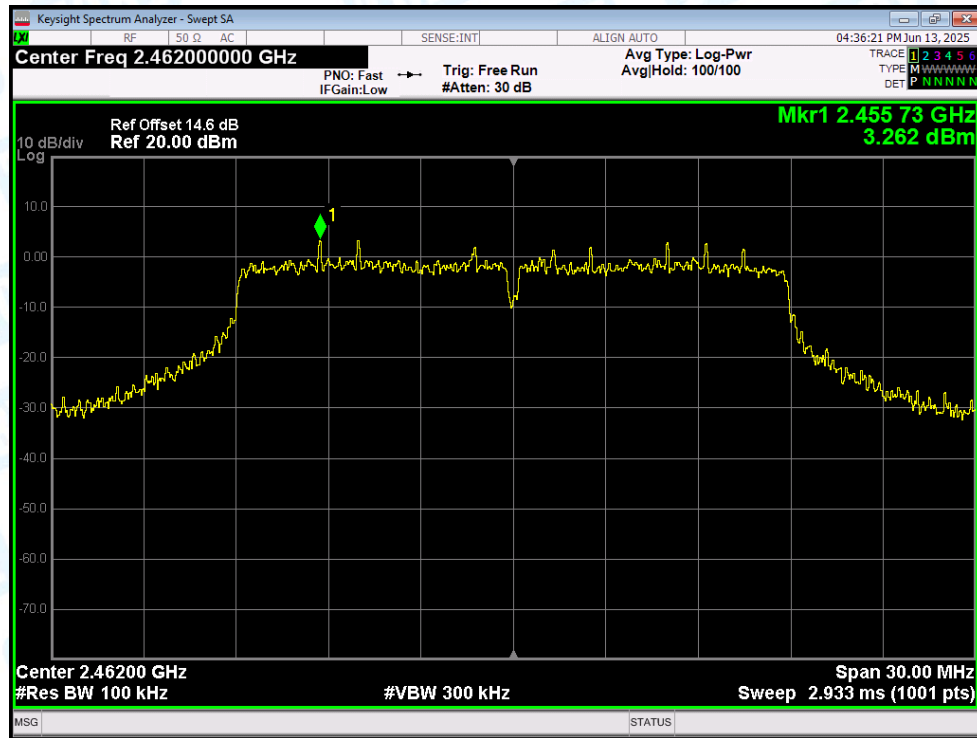
Band Edge NVNT n(HT20) 2412MHz Ant1 Ref



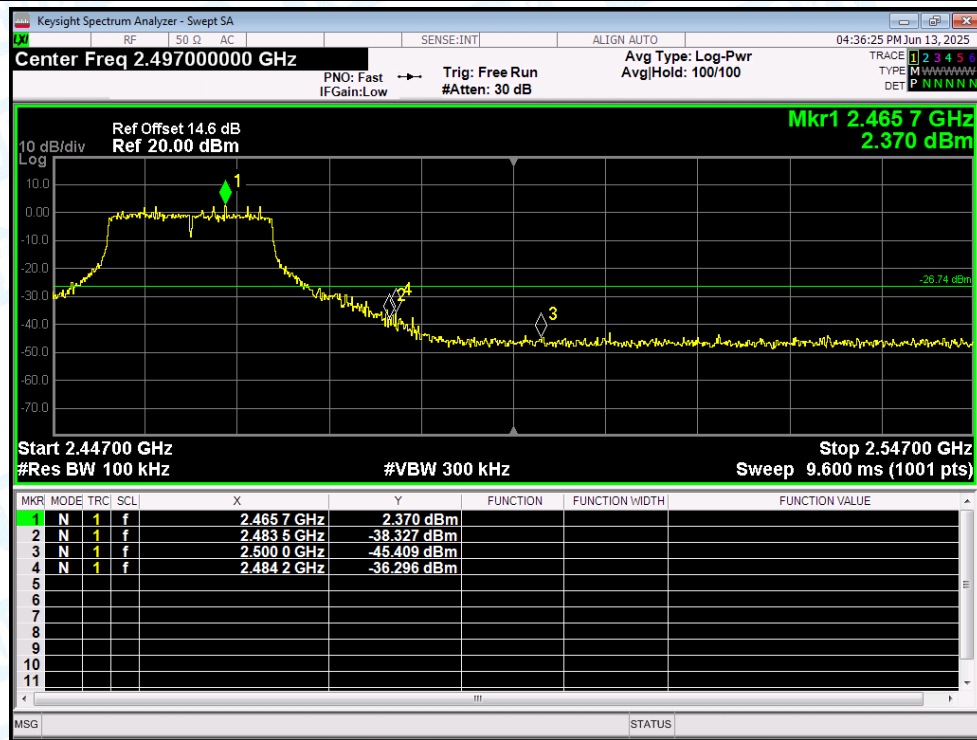
Band Edge NVNT n(HT20) 2412MHz Ant1 Emission



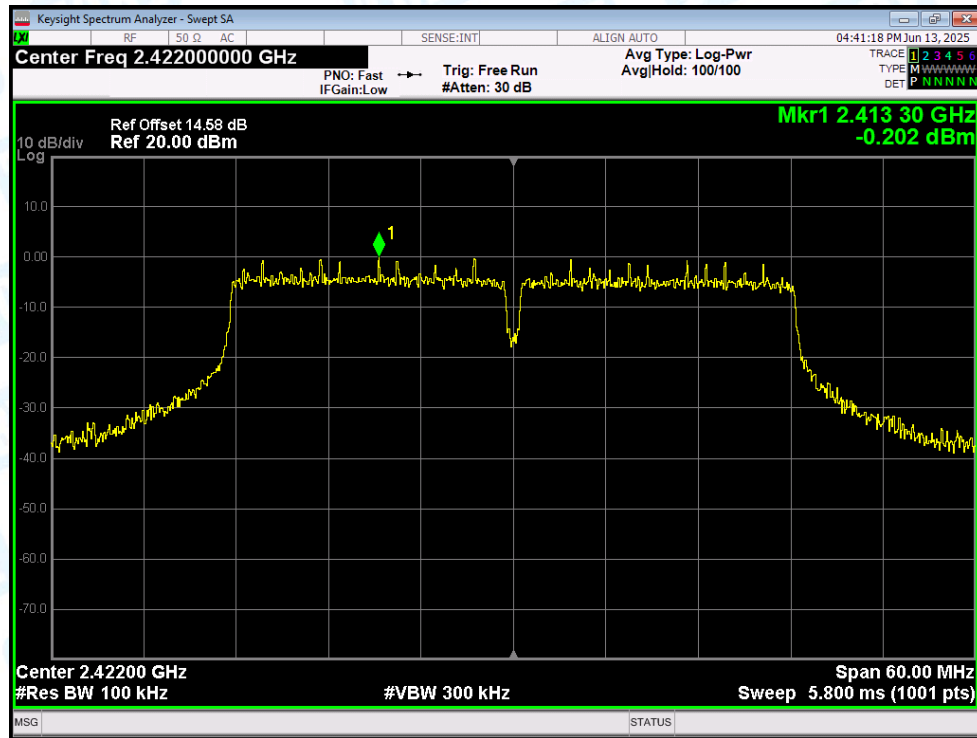
Band Edge NVNT n(HT20) 2462MHz Ant1 Ref



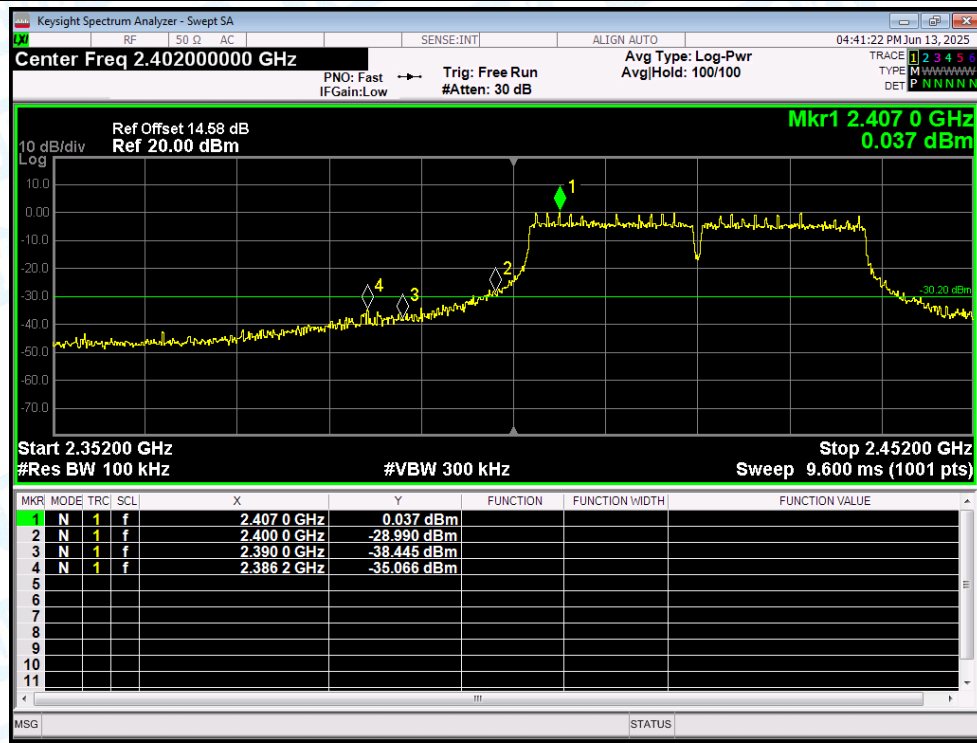
Band Edge NVNT n(HT20) 2462MHz Ant1 Emission



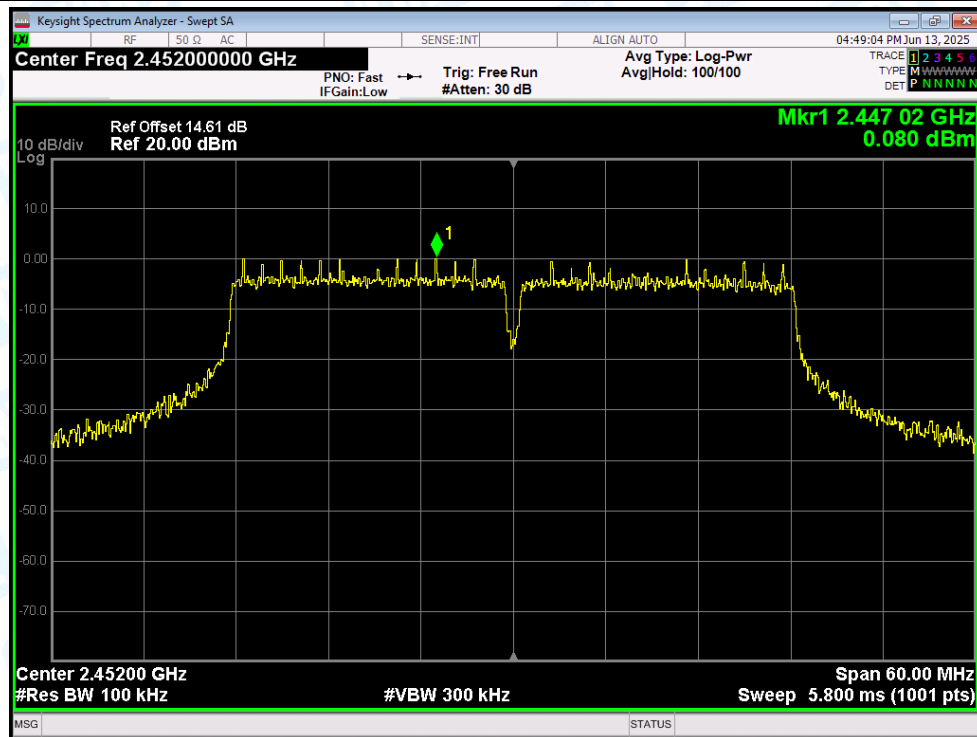
Band Edge NVNT n(HT40) 2422MHz Ant1 Ref



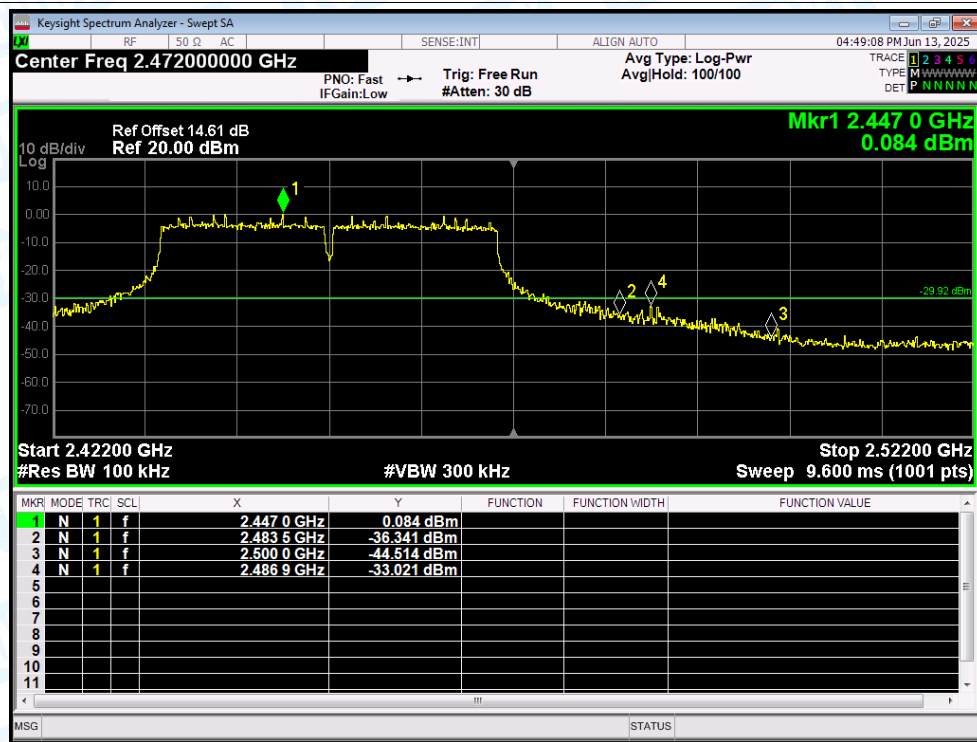
Band Edge NVNT n(HT40) 2422MHz Ant1 Emission



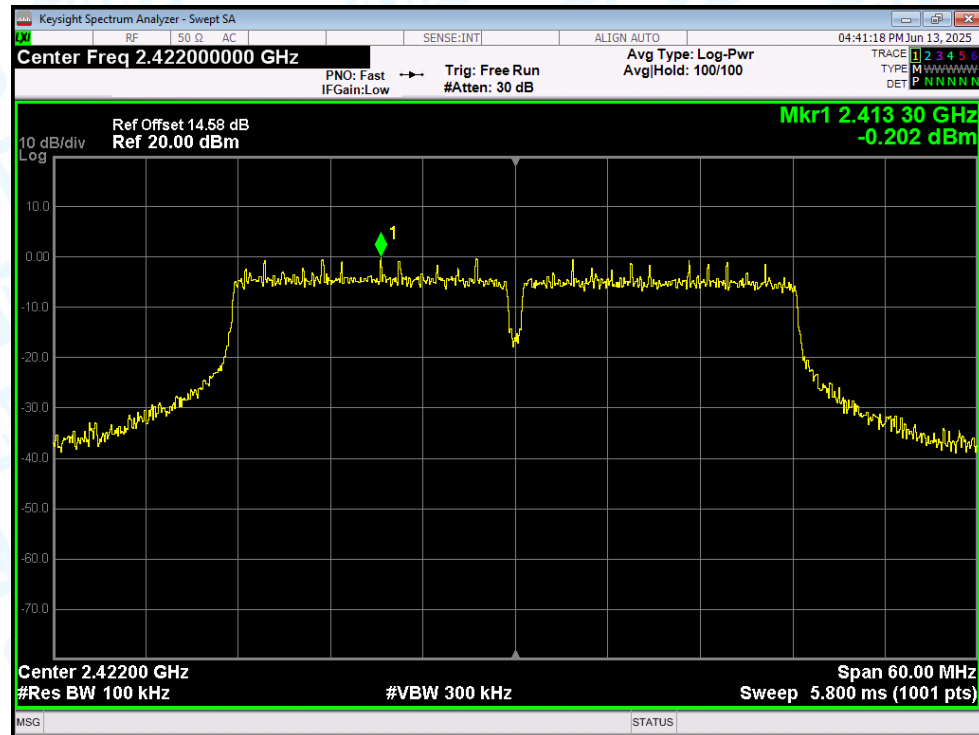
Band Edge NVNT n(HT40) 2452MHz Ant1 Ref



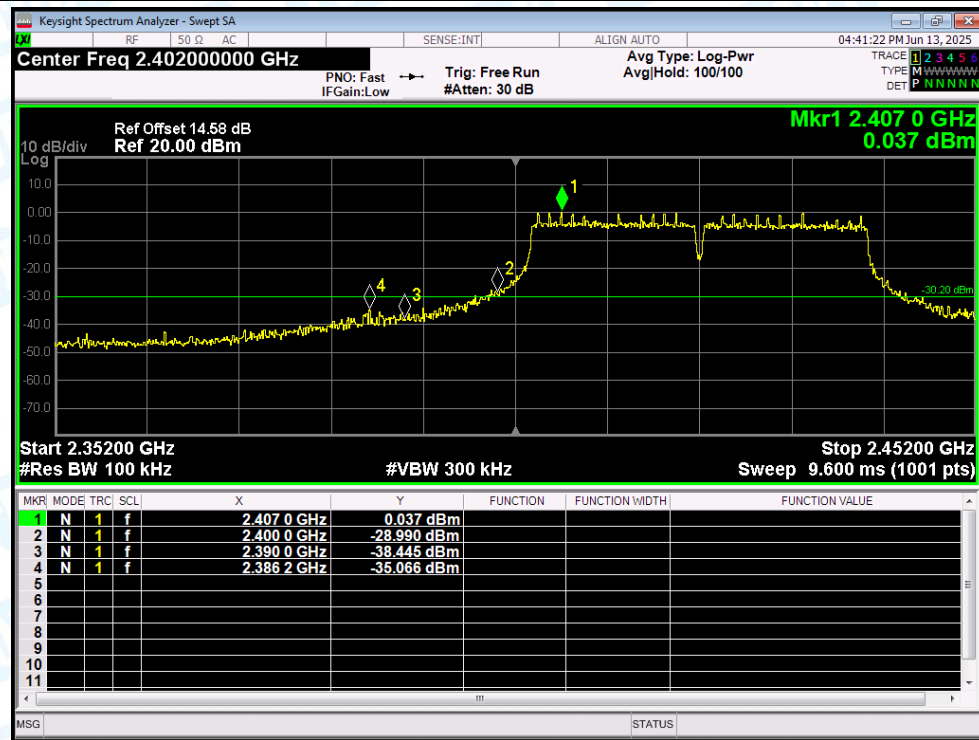
Band Edge NVNT n(HT40) 2452MHz Ant1 Emission



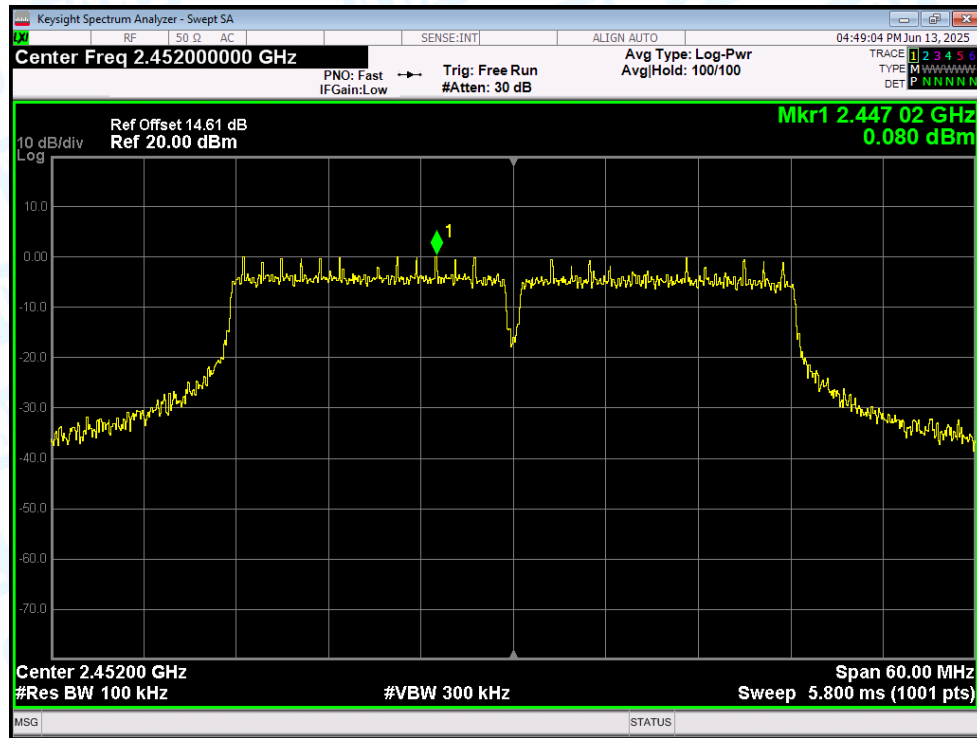
Band Edge NVNT n(HT40) 2422MHz Ant1 Ref



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

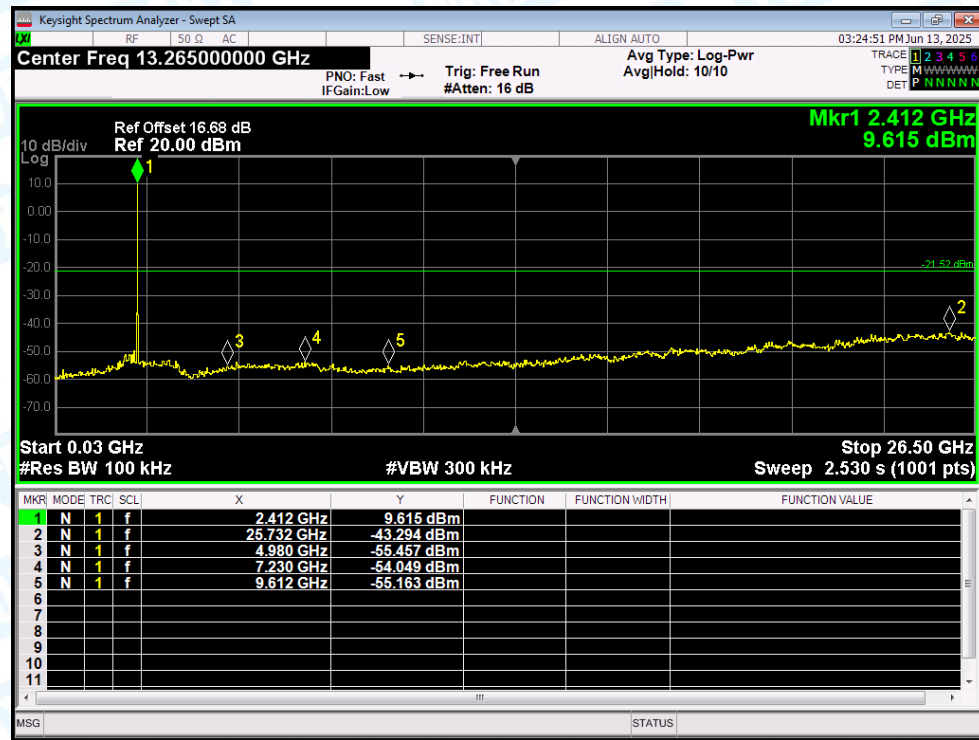
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-51.77	-30	Pass
NVNT	b	2437	Ant1	-52.08	-30	Pass
NVNT	b	2462	Ant1	-51.66	-30	Pass
NVNT	g	2412	Ant1	-45.74	-30	Pass
NVNT	g	2437	Ant1	-44.9	-30	Pass
NVNT	g	2462	Ant1	-46.16	-30	Pass
NVNT	n(HT20)	2412	Ant1	-46.16	-30	Pass
NVNT	n(HT20)	2437	Ant1	-46.01	-30	Pass
NVNT	n(HT20)	2462	Ant1	-45.78	-30	Pass
NVNT	n(HT40)	2422	Ant1	-43.2	-30	Pass
NVNT	n(HT40)	2437	Ant1	-43.77	-30	Pass
NVNT	n(HT40)	2452	Ant1	-43.54	-30	Pass

Test Graphs

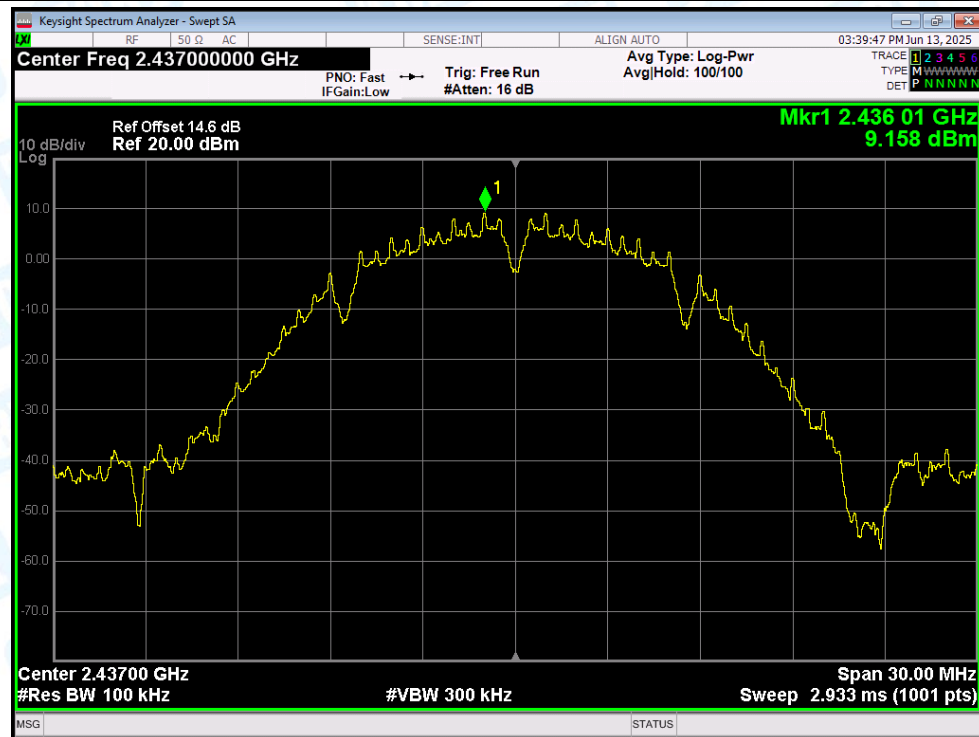
Tx. Spurious NVNT b 2412MHz Ant1 Ref



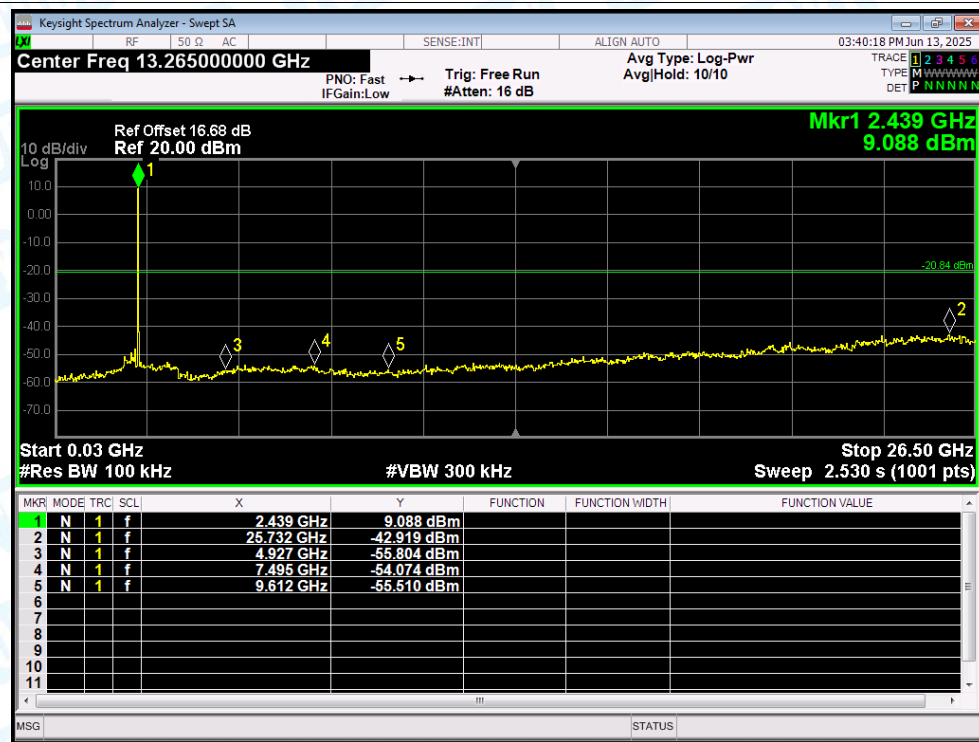
Tx. Spurious NVNT b 2412MHz Ant1 Emission



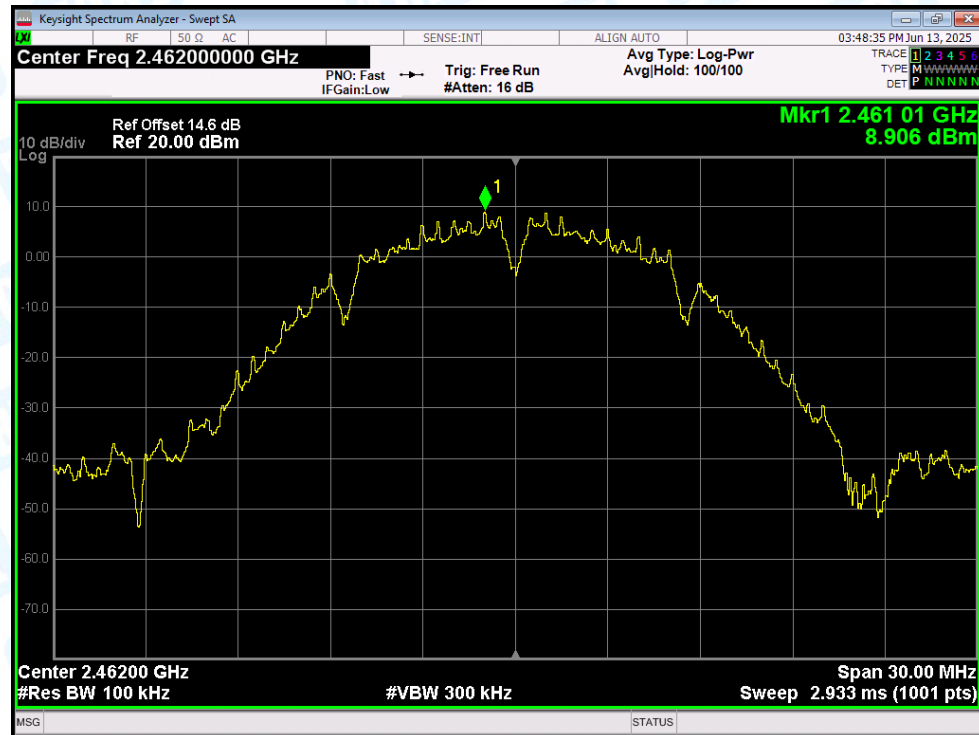
Tx. Spurious NVNT b 2437MHz Ant1 Ref



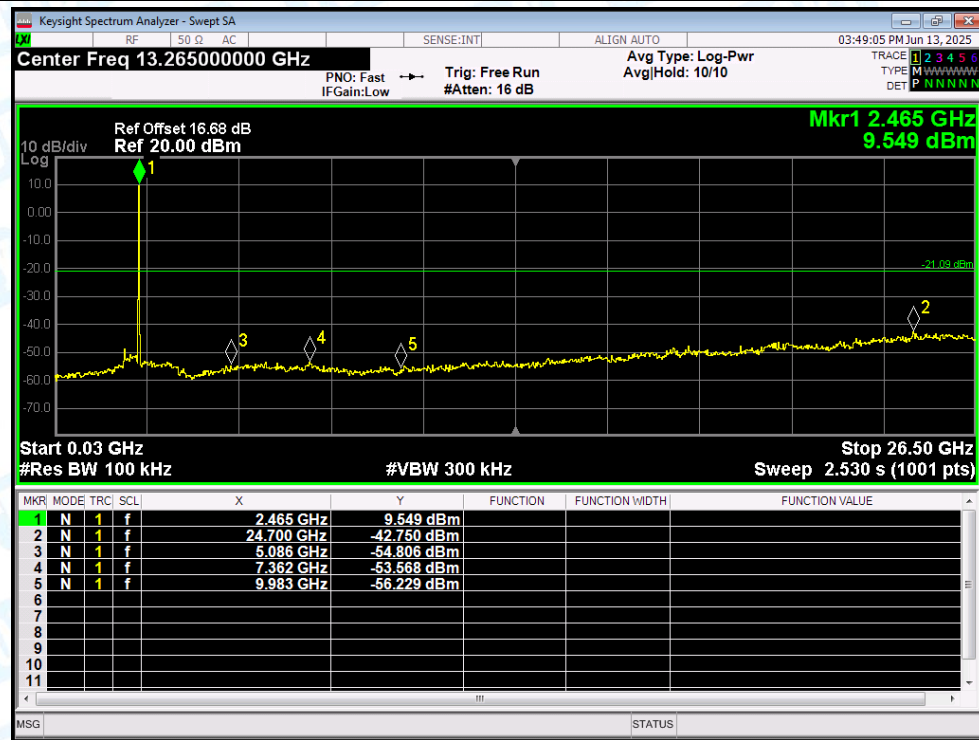
Tx. Spurious NVNT b 2437MHz Ant1 Emission



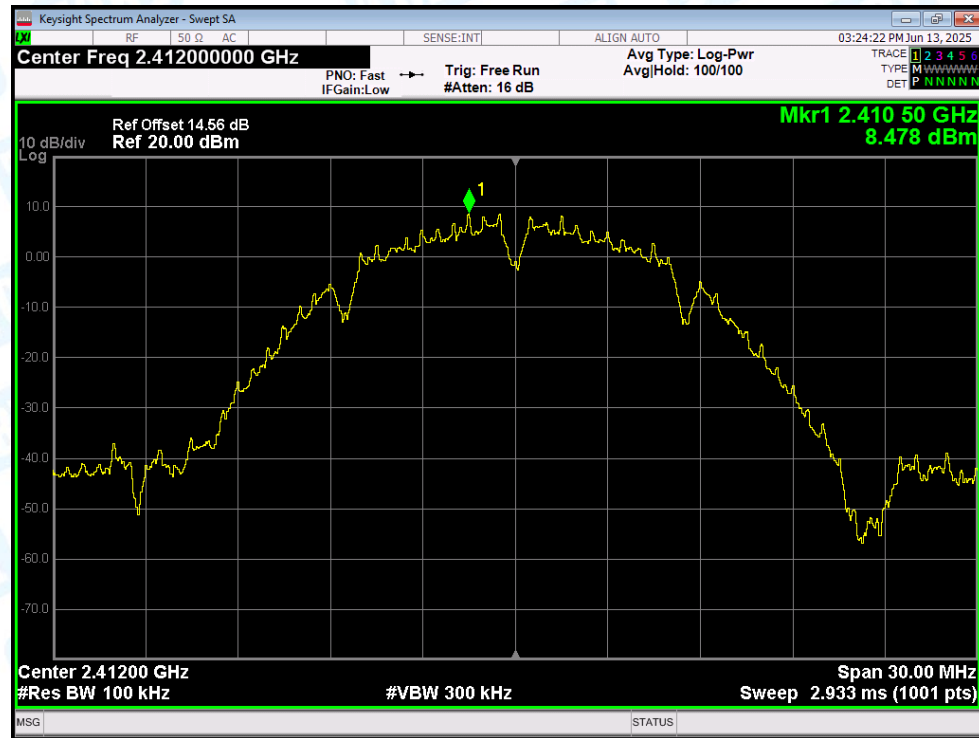
Tx. Spurious NVNT b 2462MHz Ant1 Ref



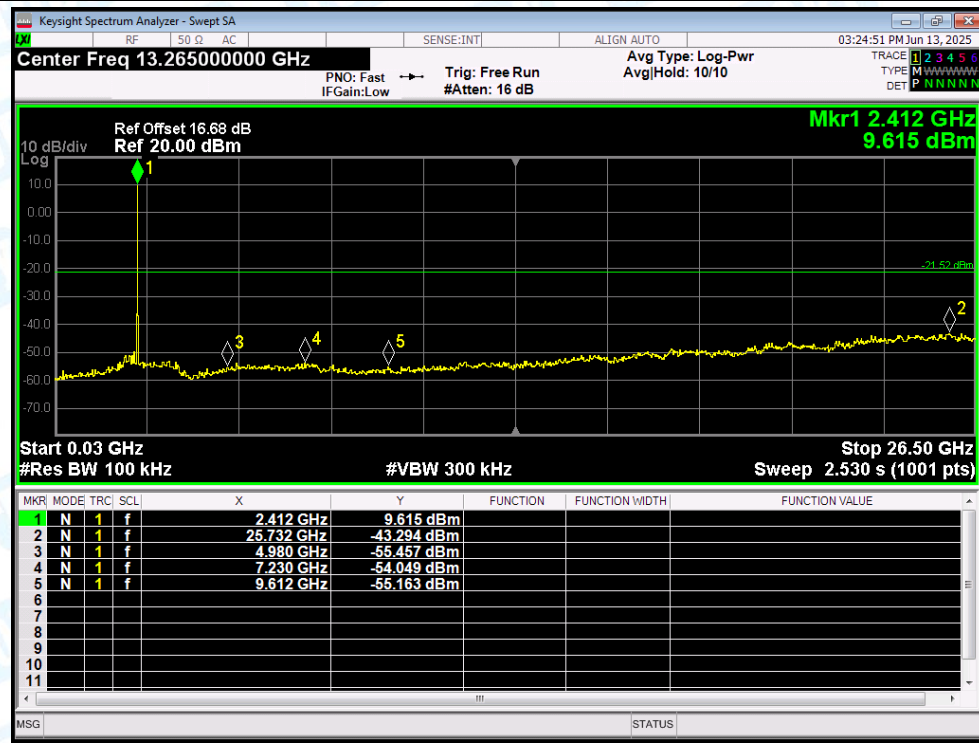
Tx. Spurious NVNT b 2462MHz Ant1 Emission



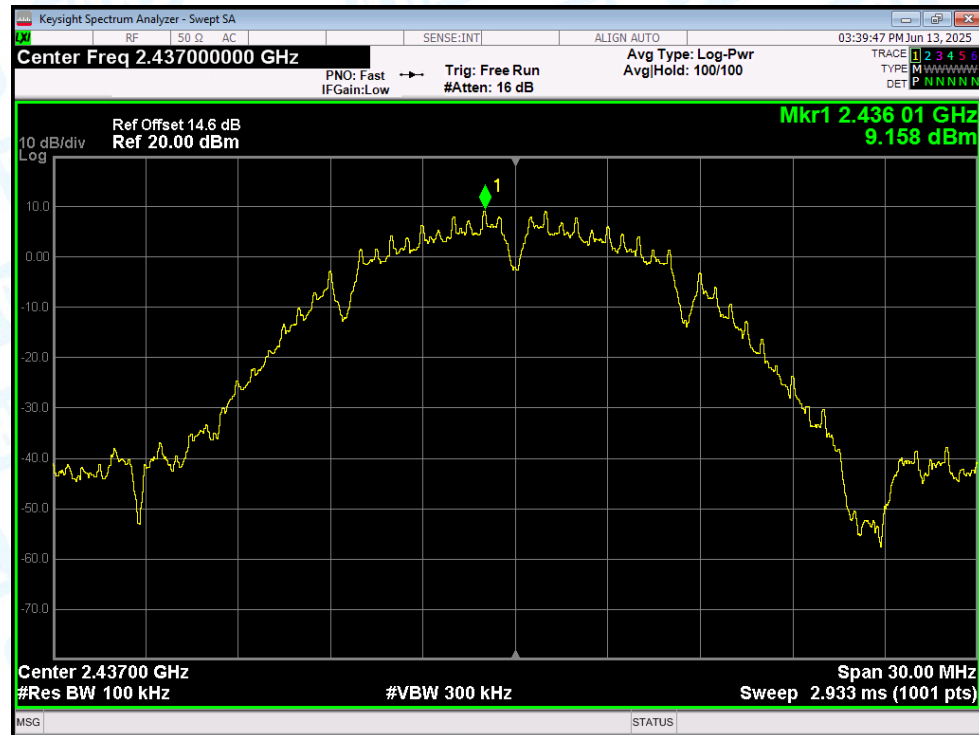
Tx. Spurious NVNT b 2412MHz Ant1 Ref



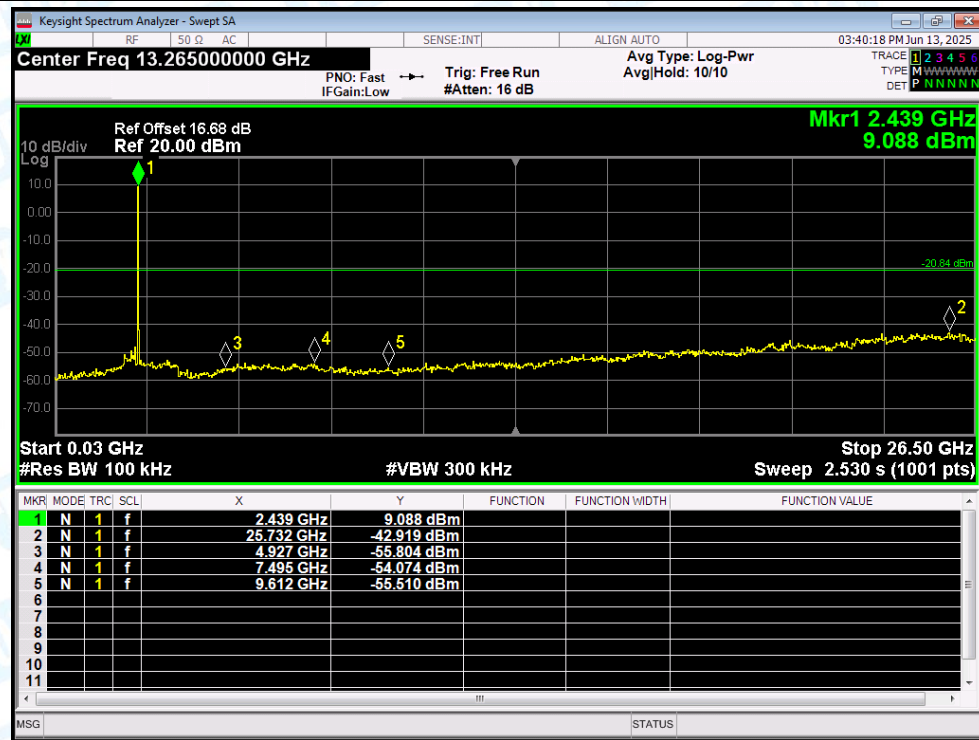
Tx. Spurious NVNT b 2412MHz Ant1 Emission



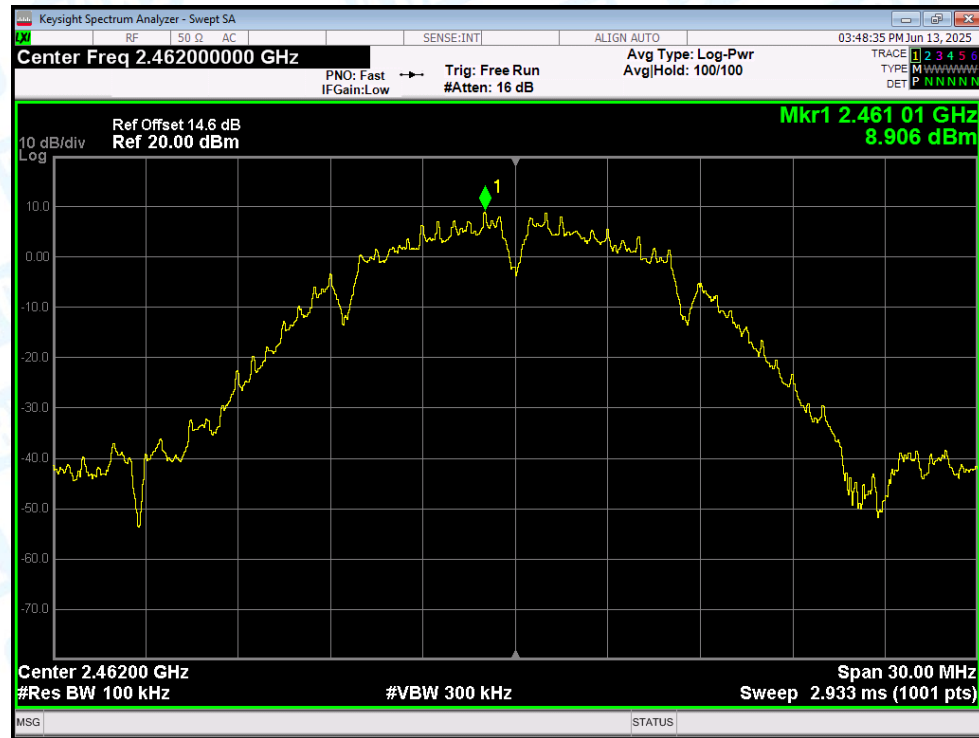
Tx. Spurious NVNT b 2437MHz Ant1 Ref



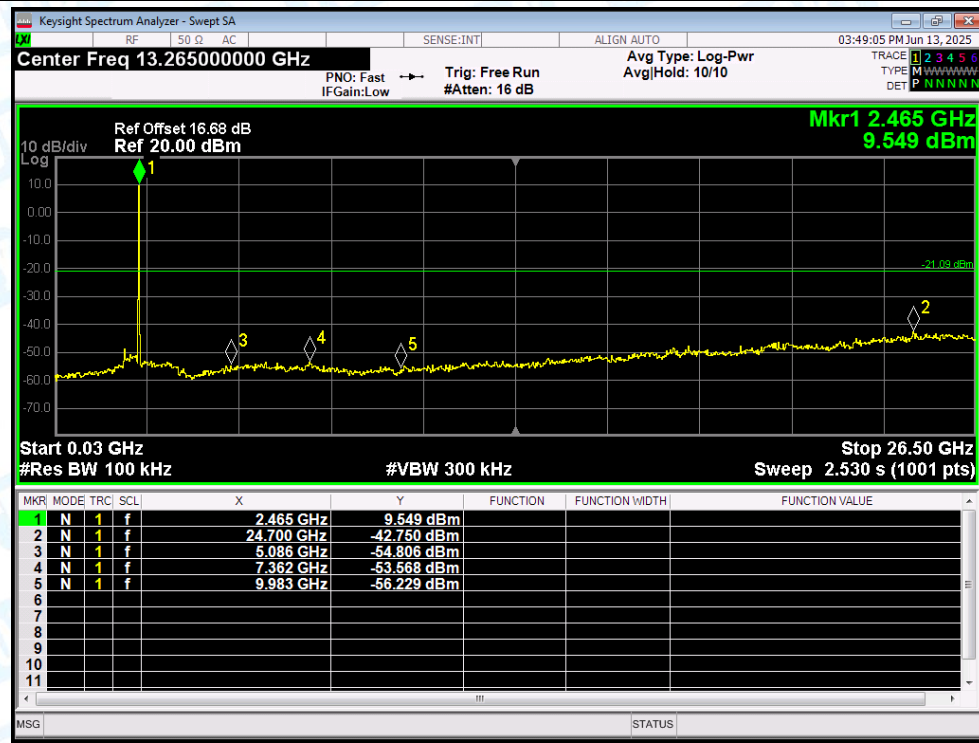
Tx. Spurious NVNT b 2437MHz Ant1 Emission



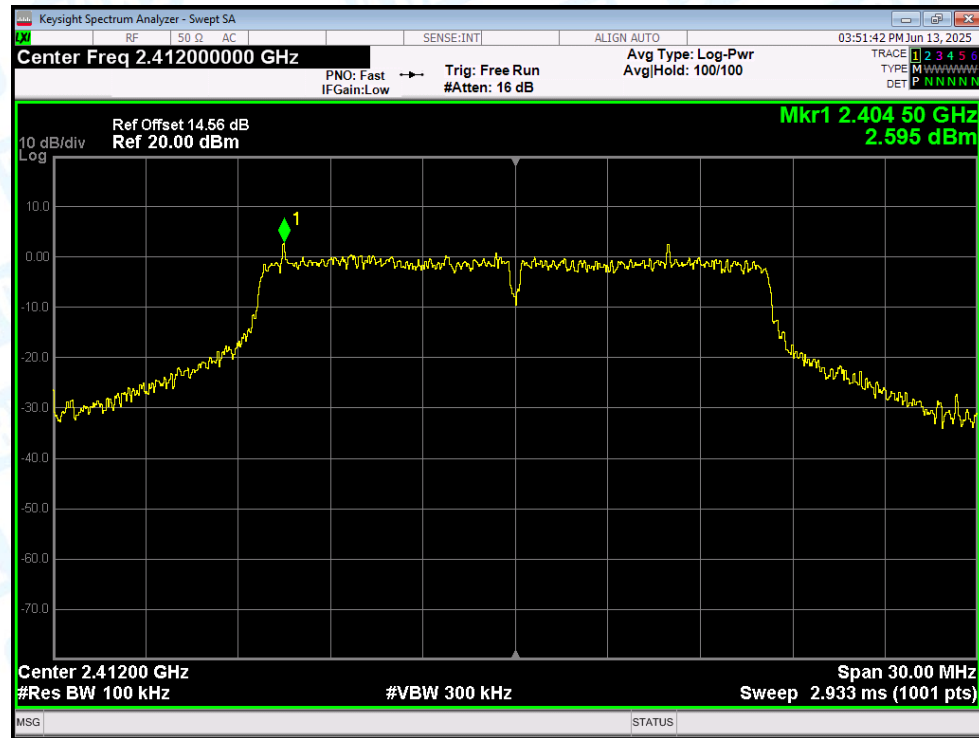
Tx. Spurious NVNT b 2462MHz Ant1 Ref



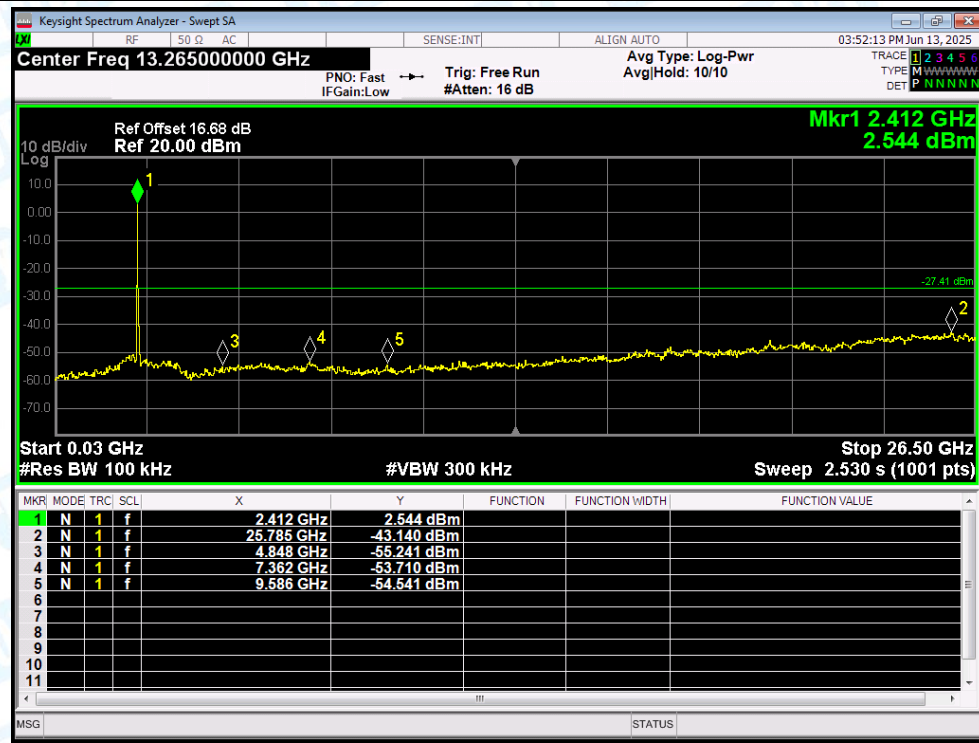
Tx. Spurious NVNT b 2462MHz Ant1 Emission



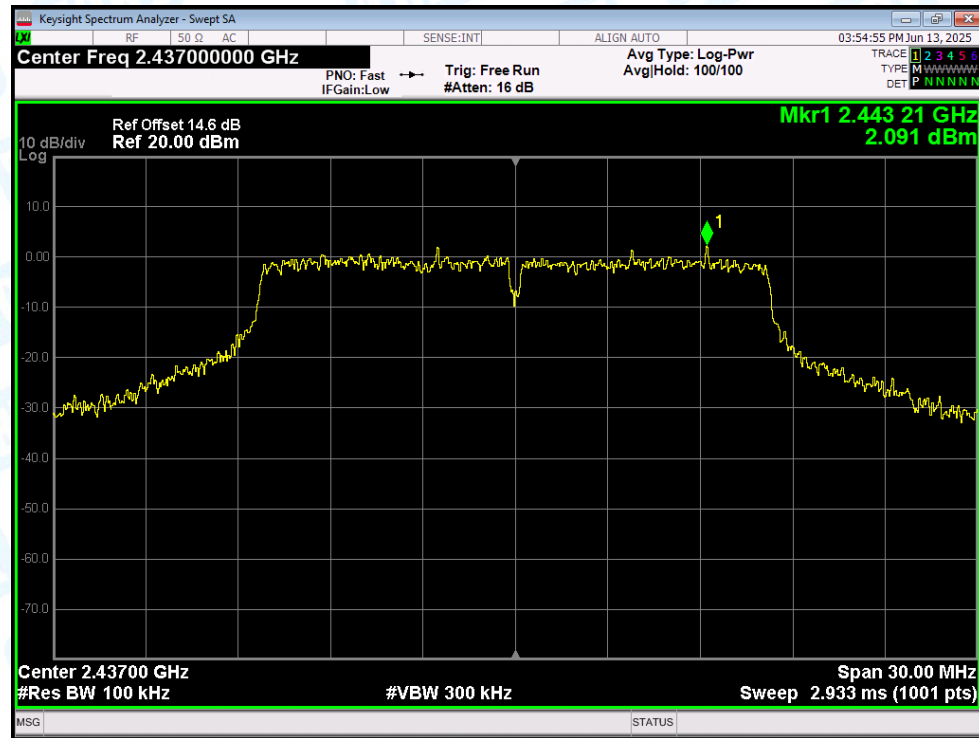
Tx. Spurious NVNT g 2412MHz Ant1 Ref



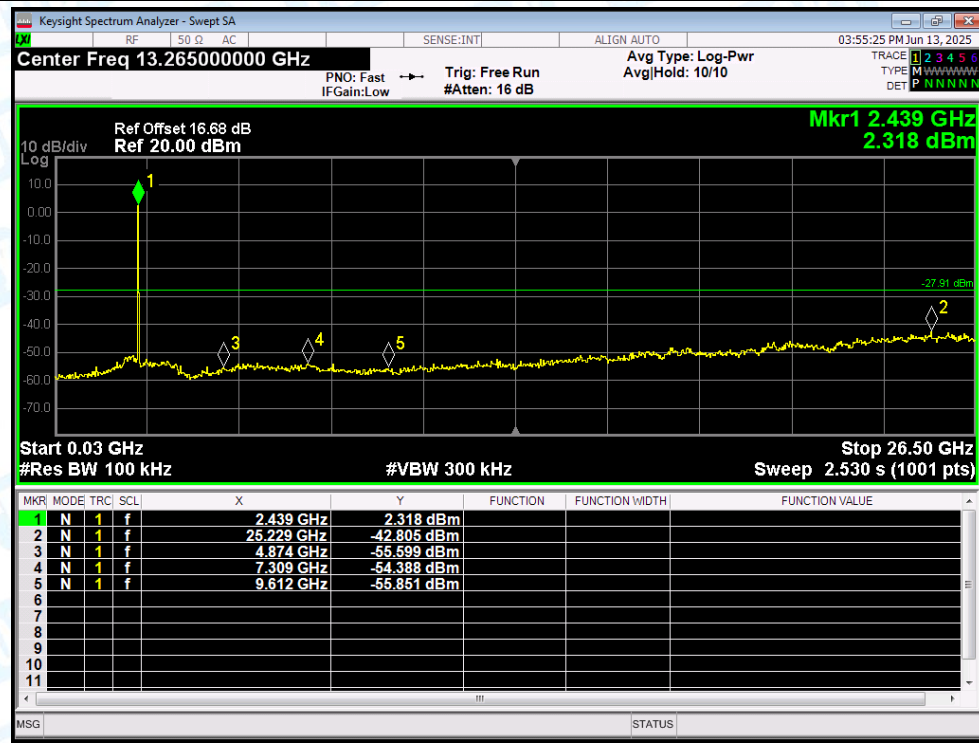
Tx. Spurious NVNT g 2412MHz Ant1 Emission



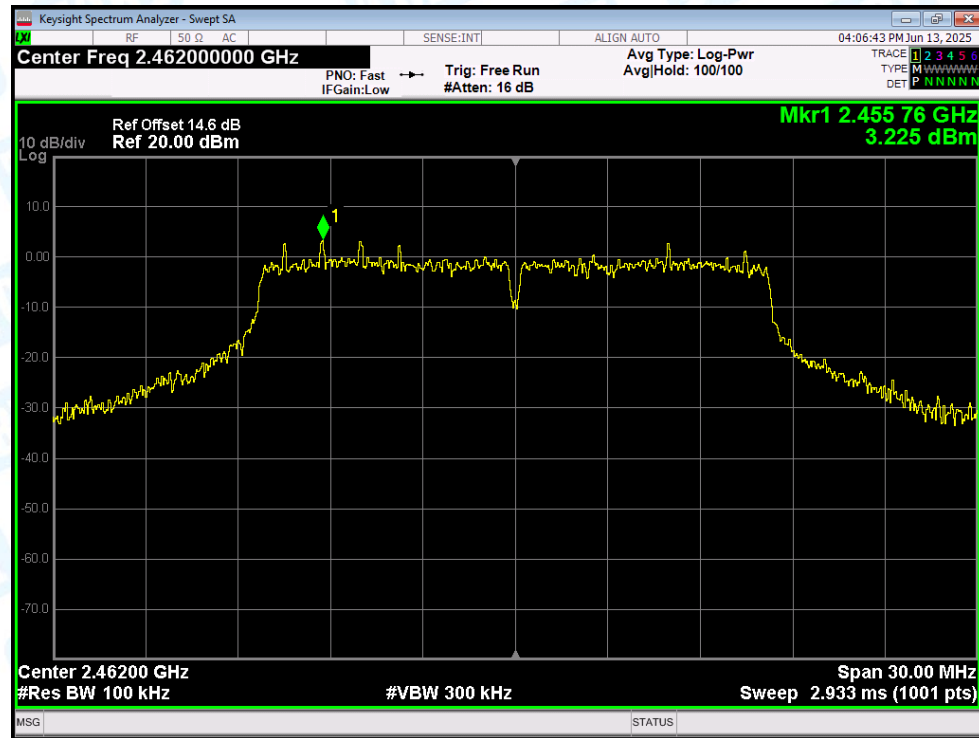
Tx. Spurious NVNT g 2437MHz Ant1 Ref



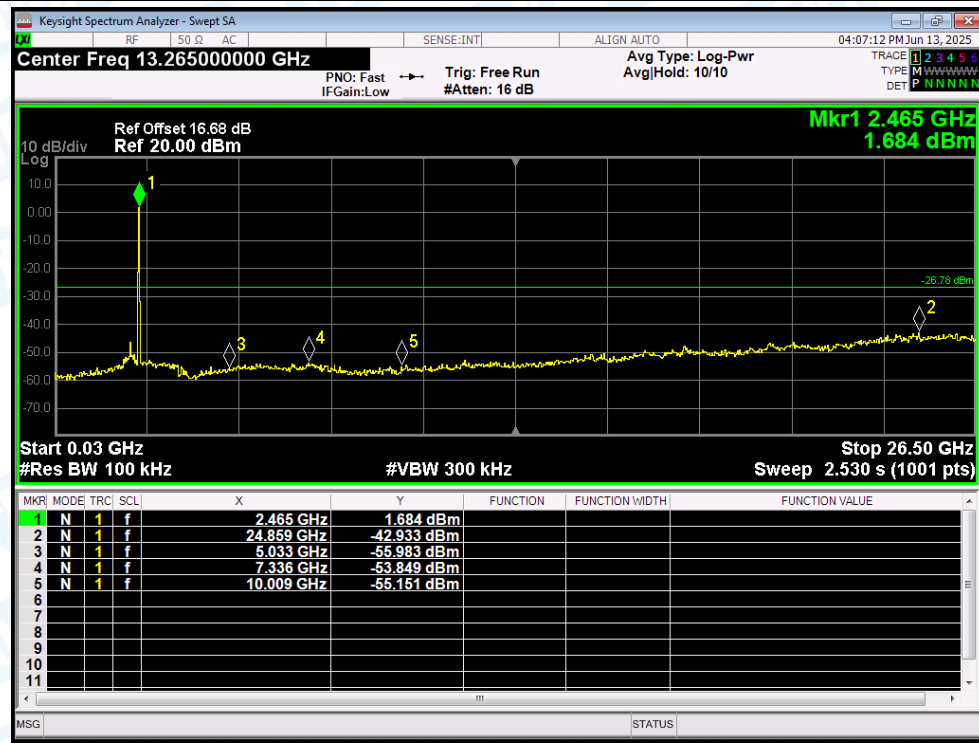
Tx. Spurious NVNT g 2437MHz Ant1 Emission



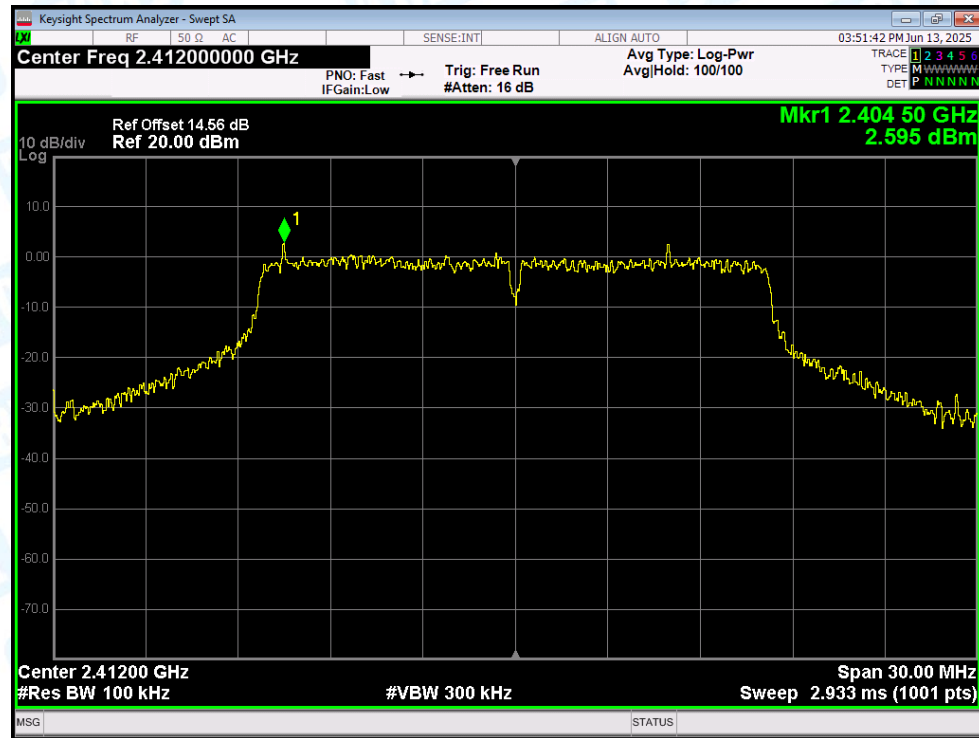
Tx. Spurious NVNT g 2462MHz Ant1 Ref



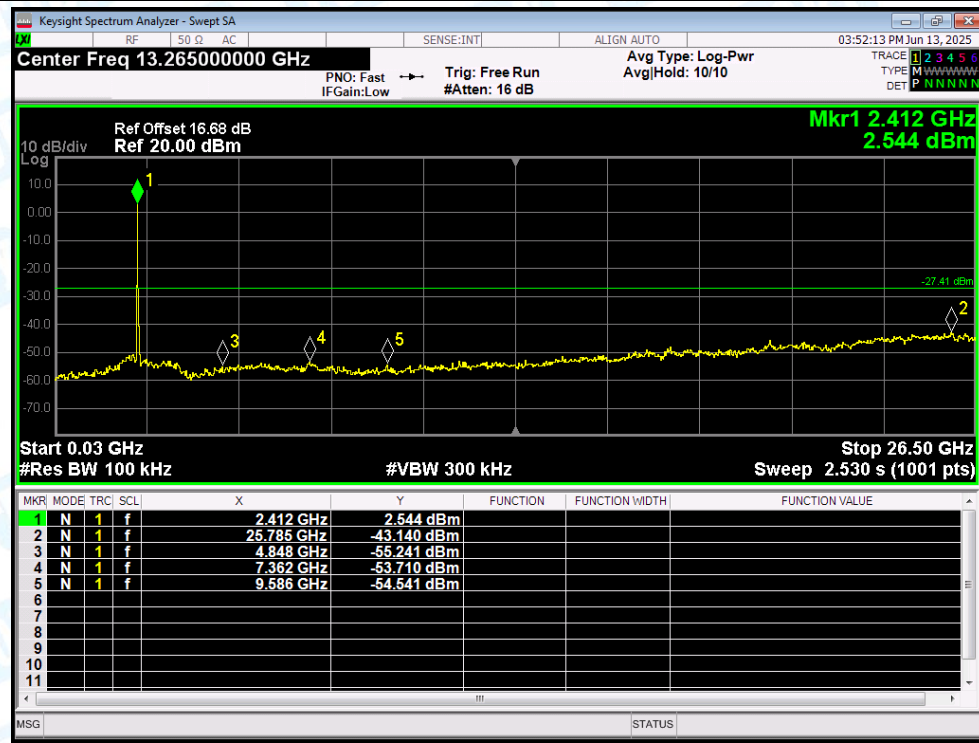
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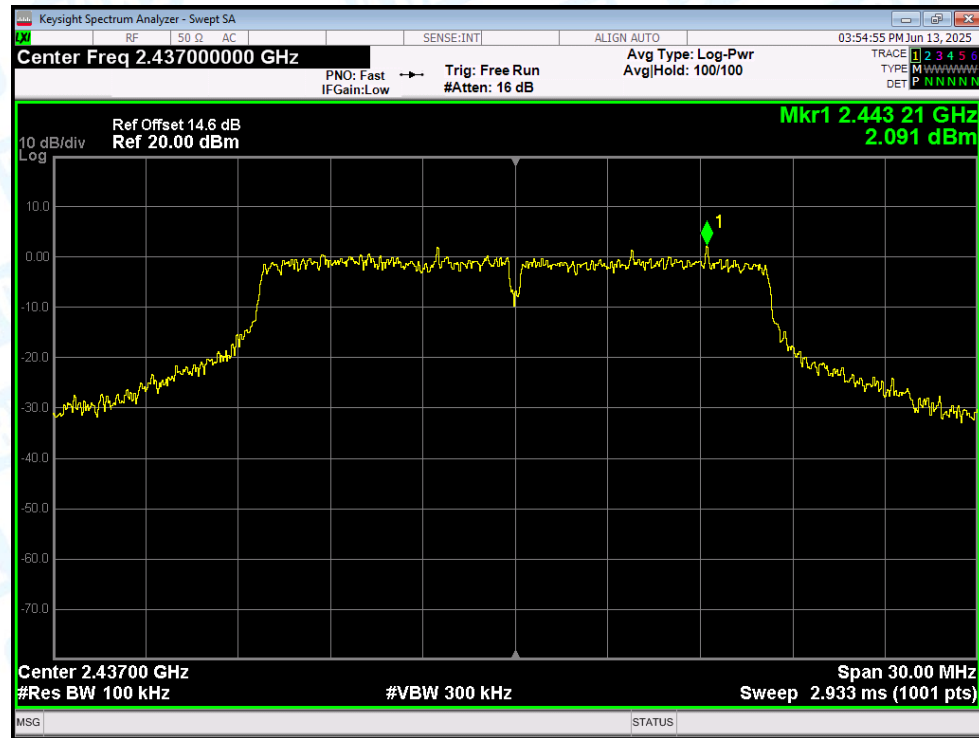
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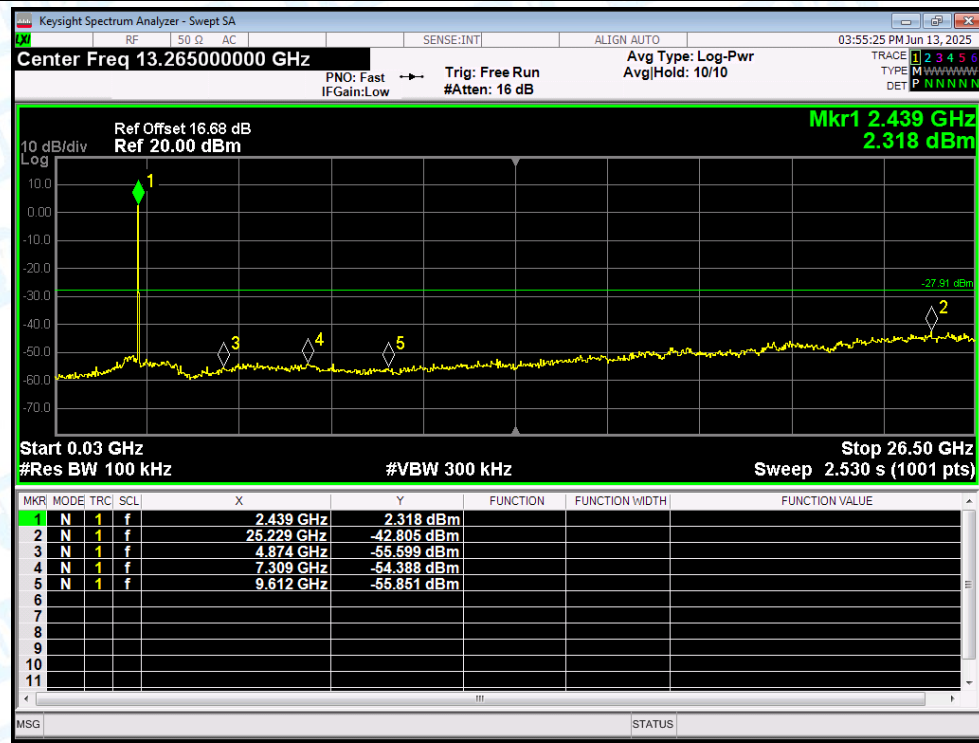
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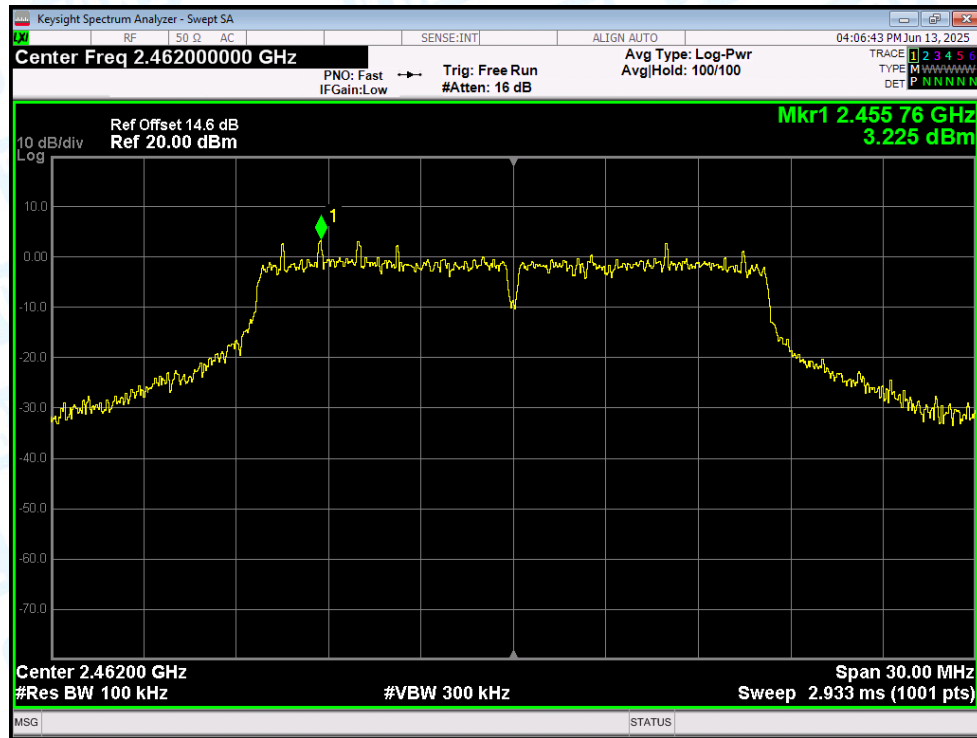
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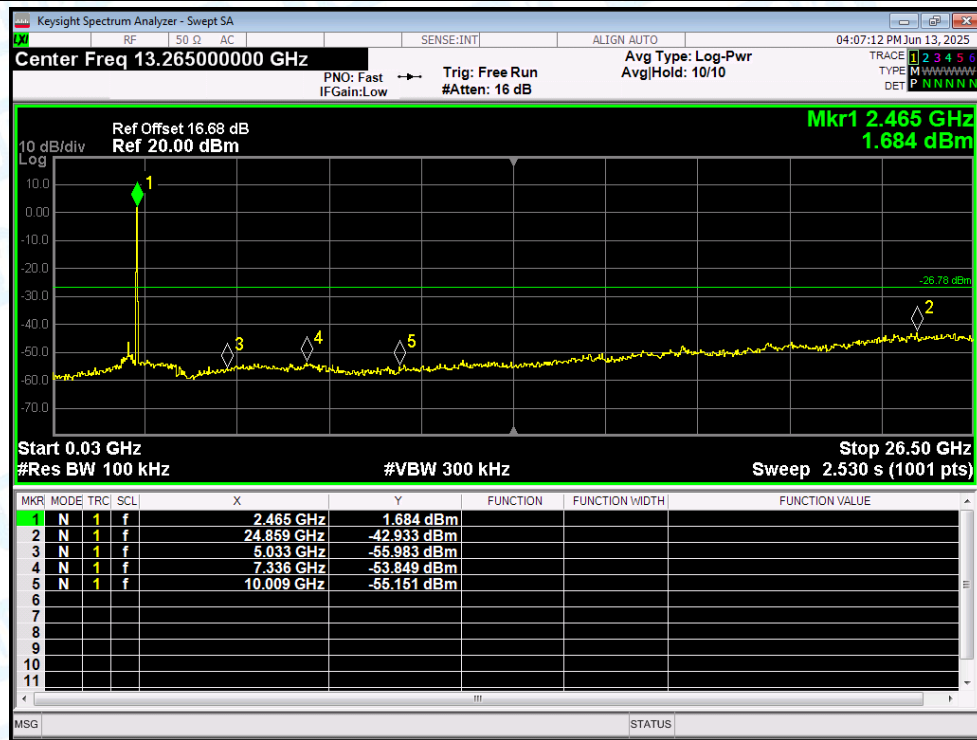
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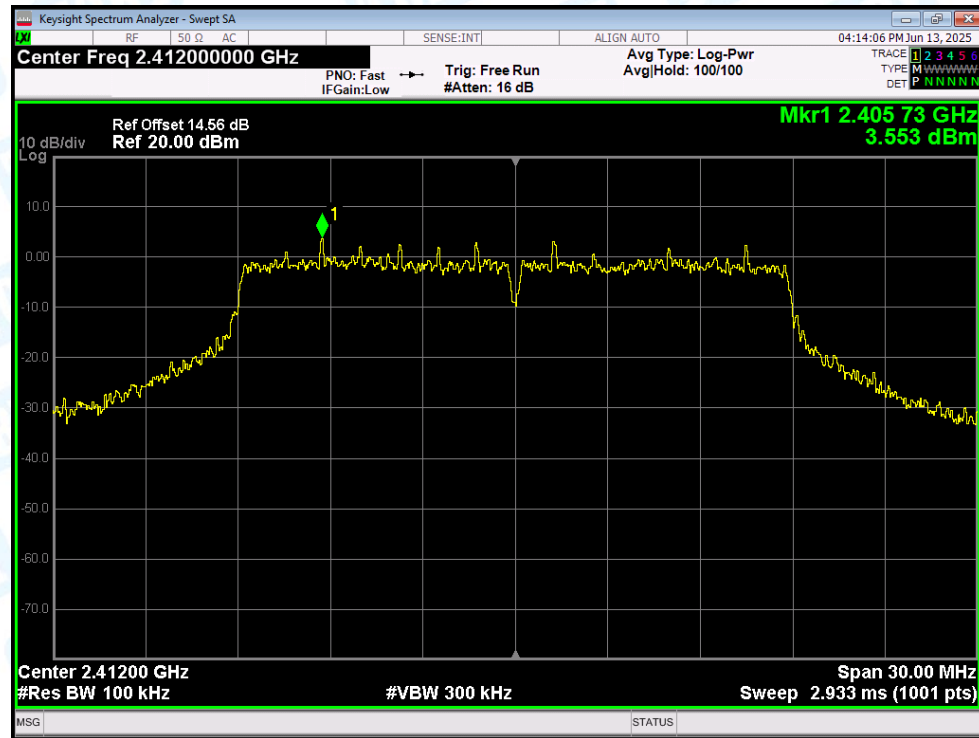
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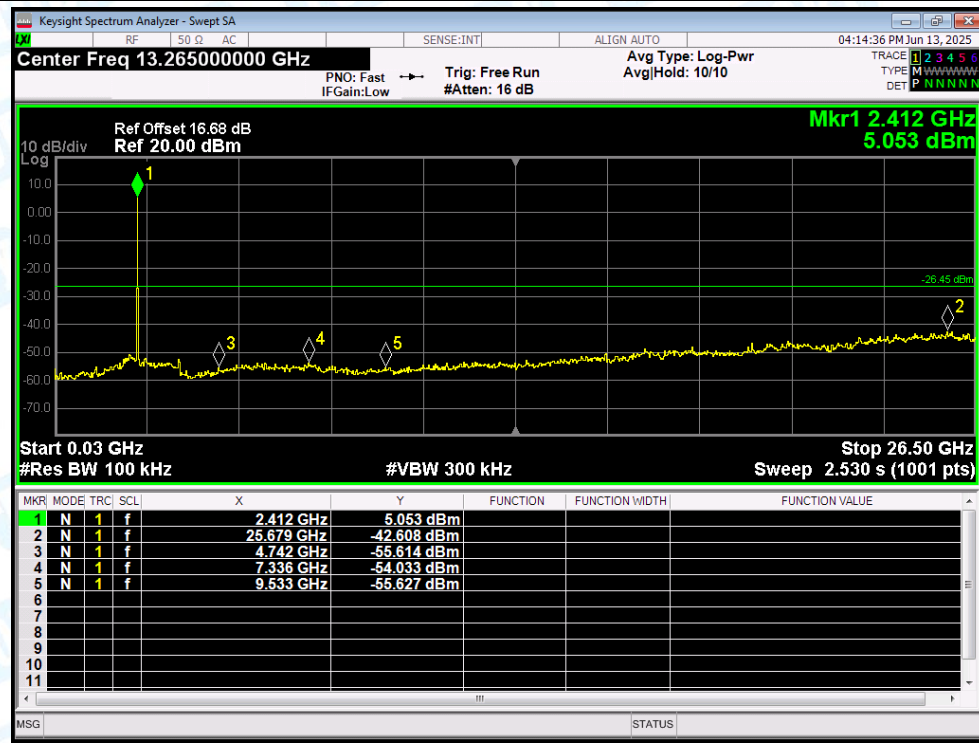
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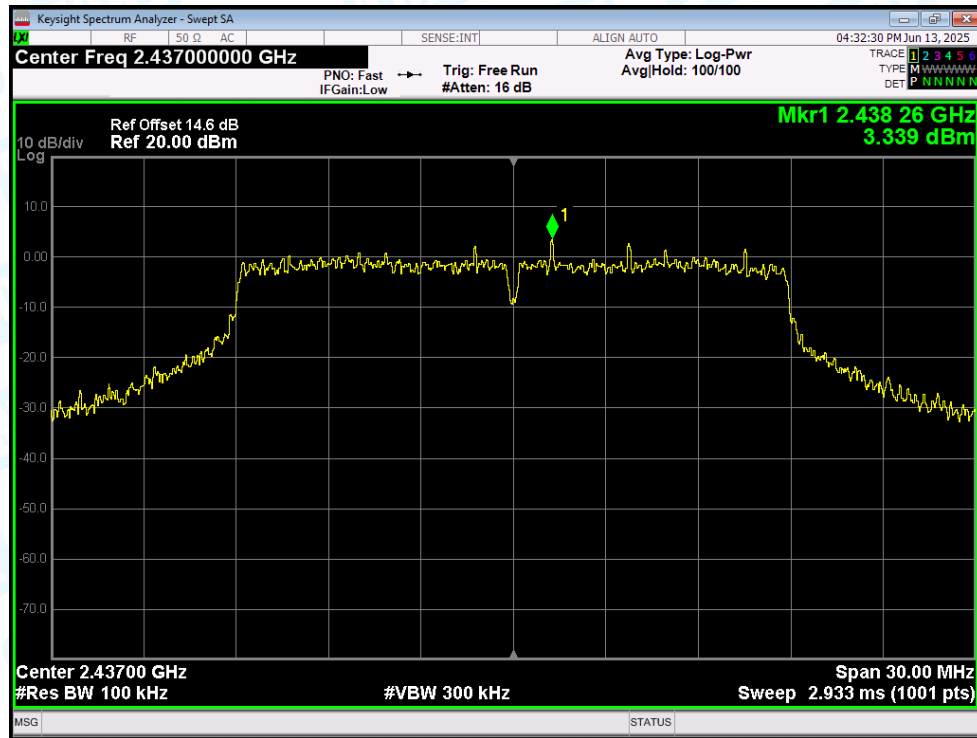
Tx. Spurious NVNT n(HT20) 2412MHz Ant1 Ref



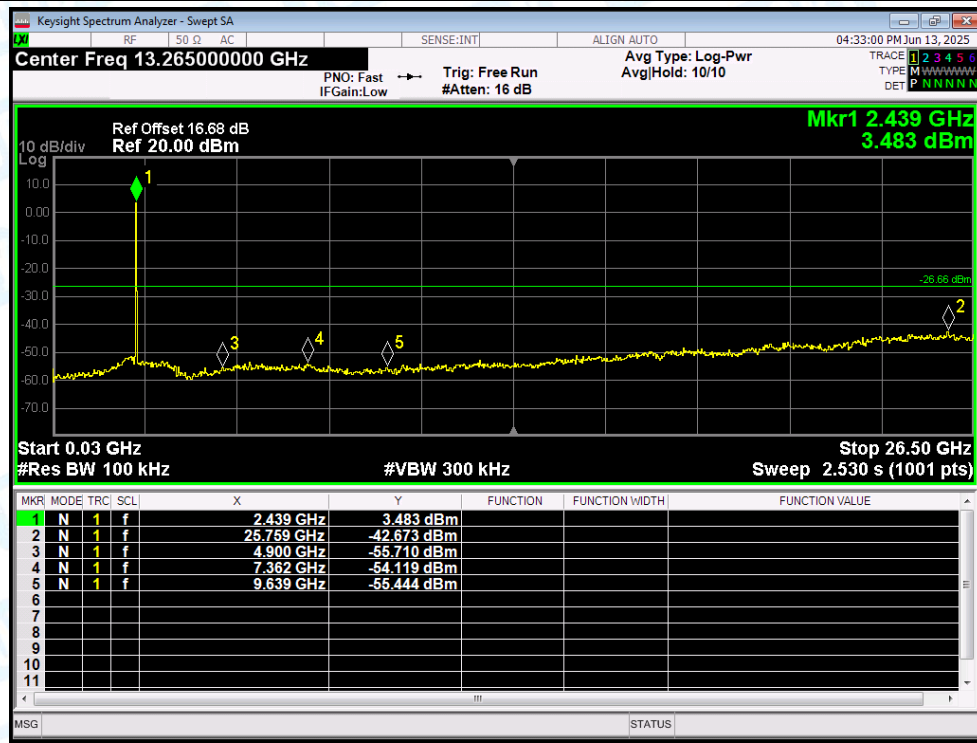
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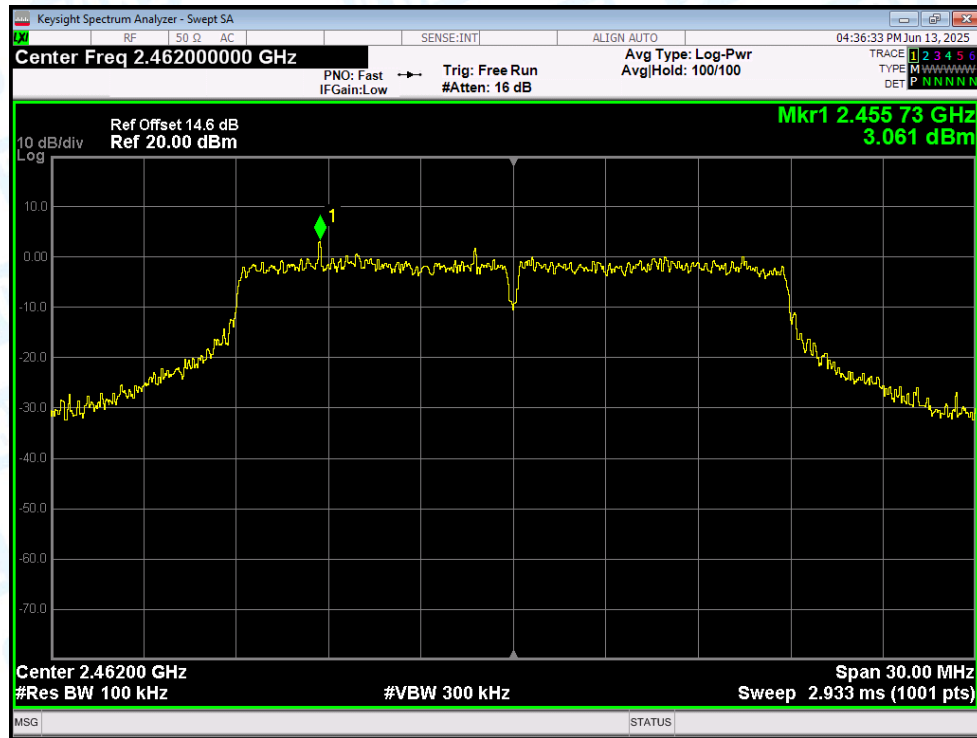
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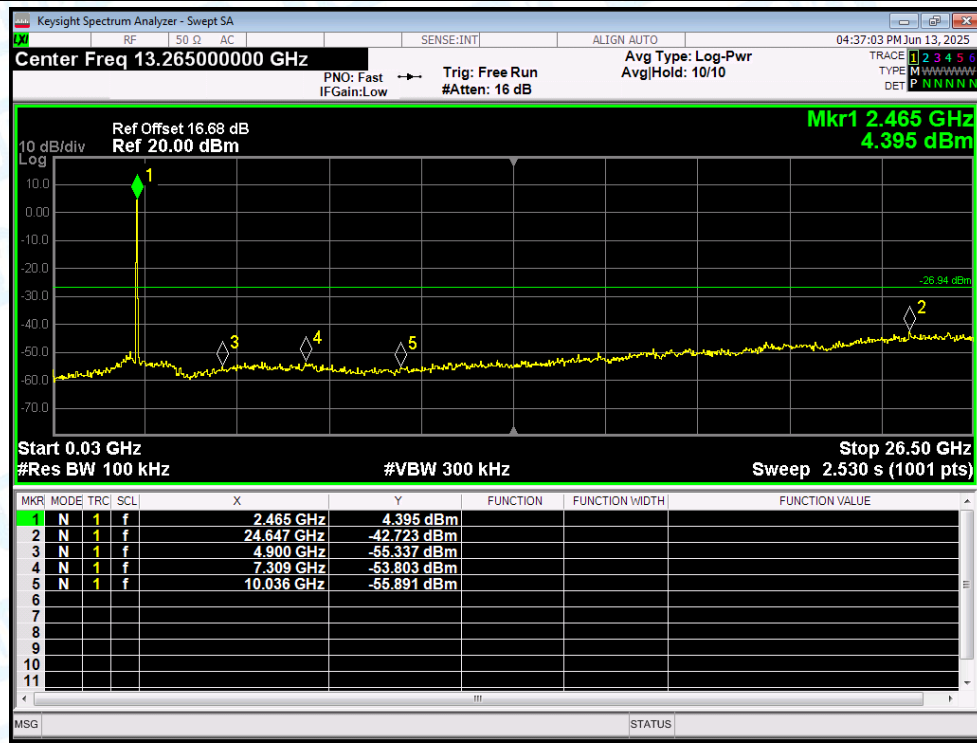
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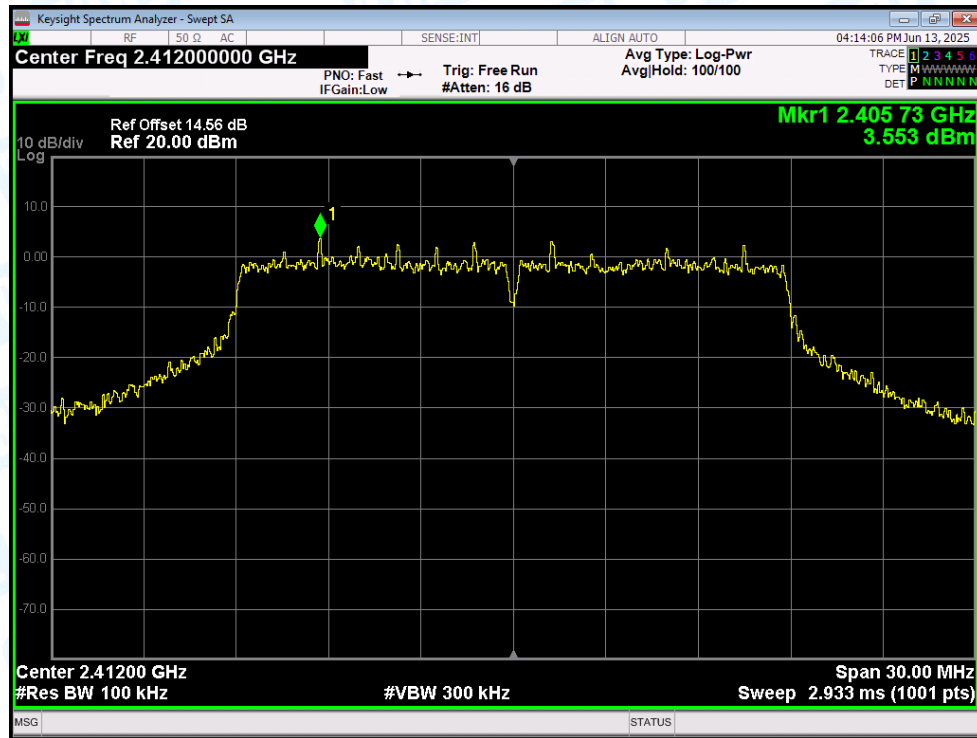
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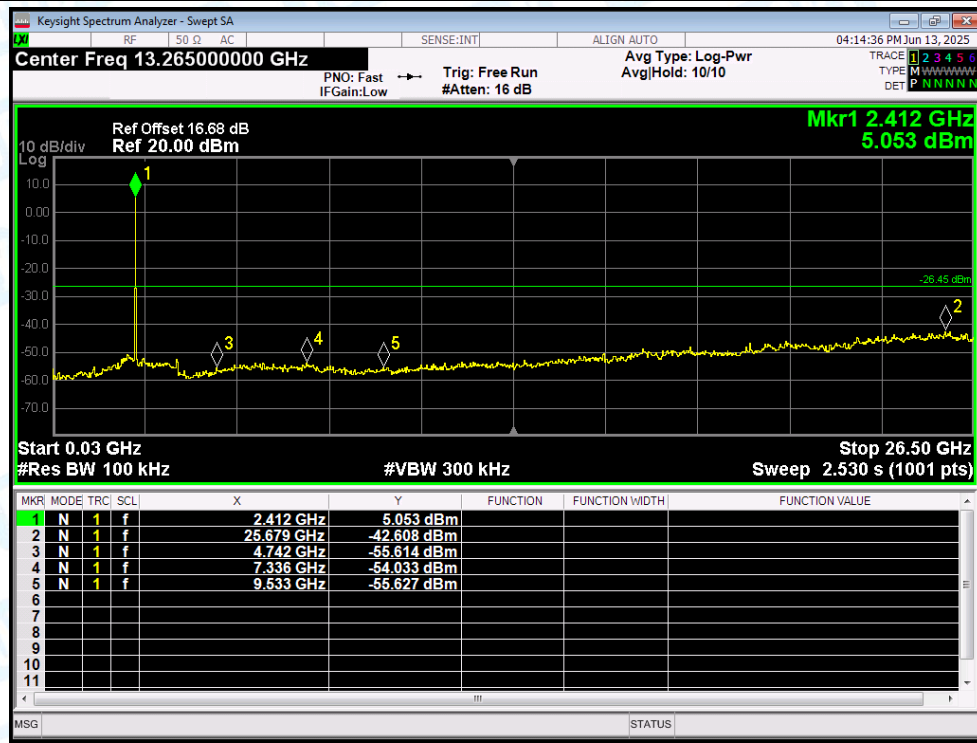
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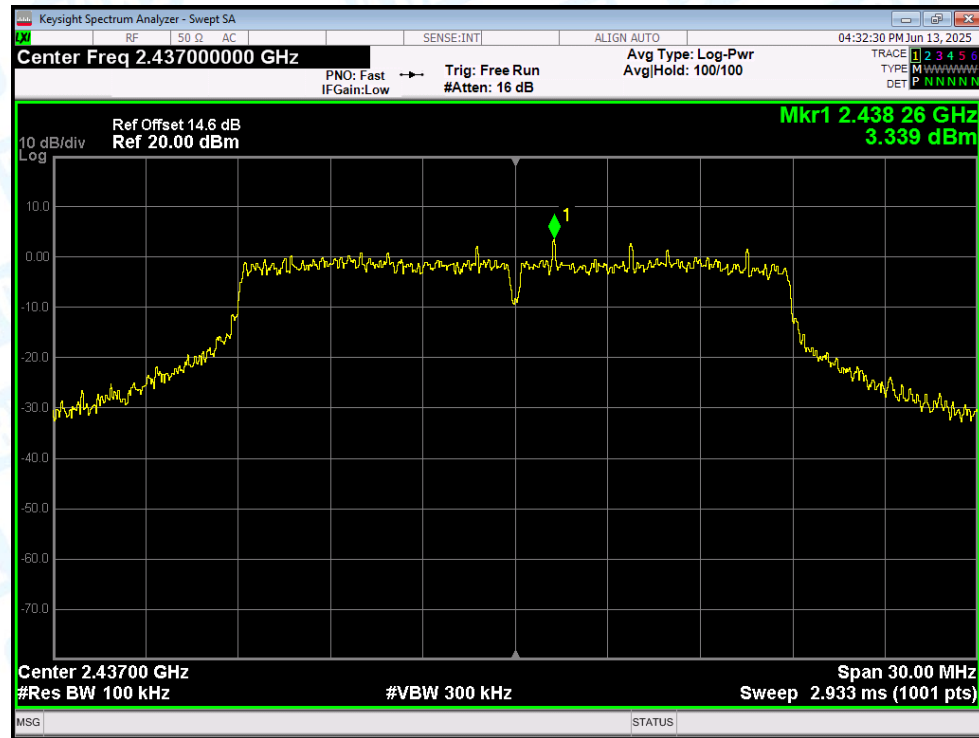
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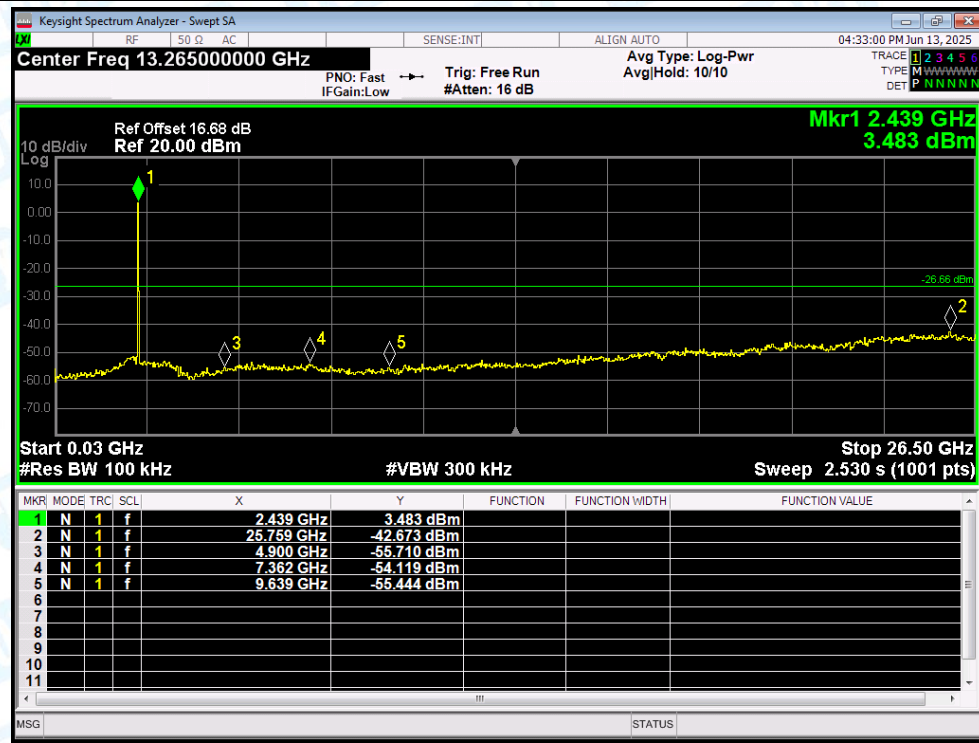
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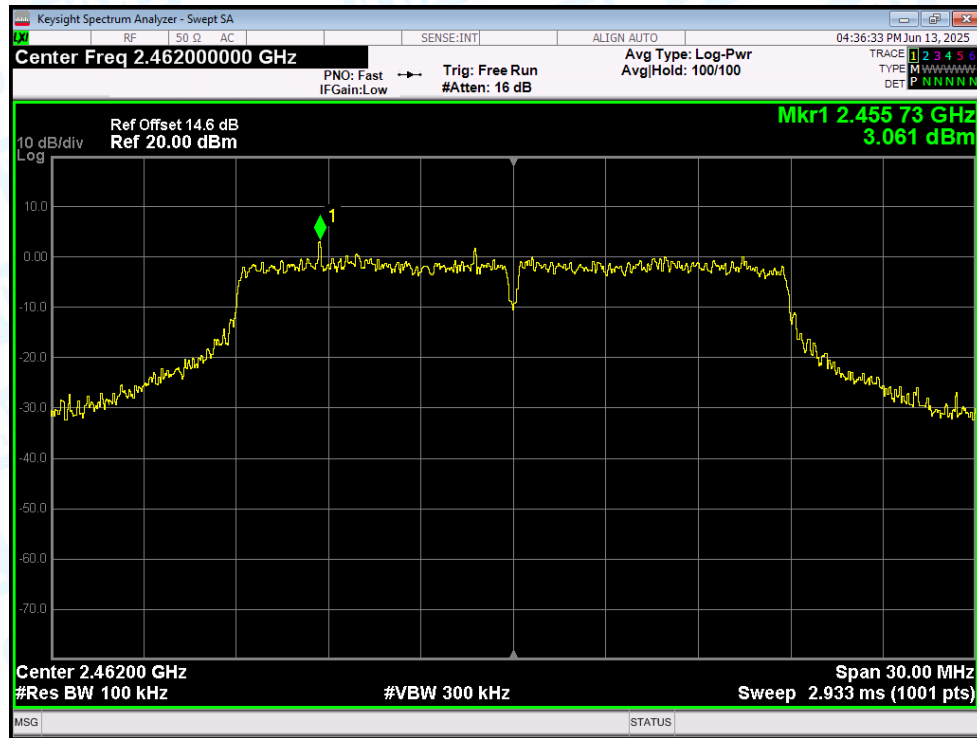
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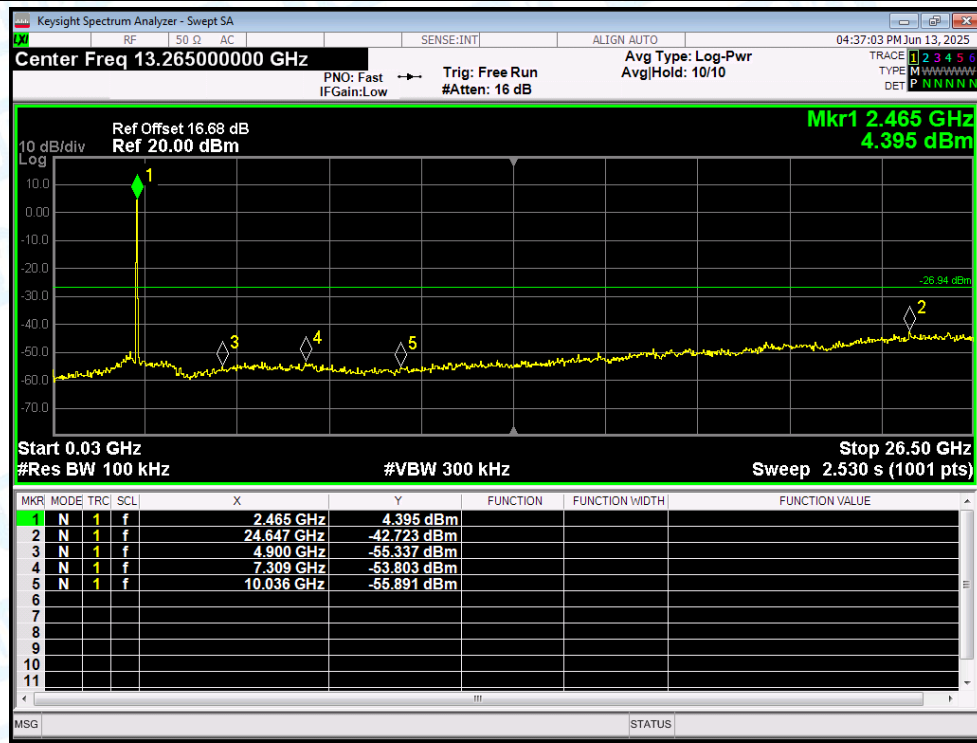
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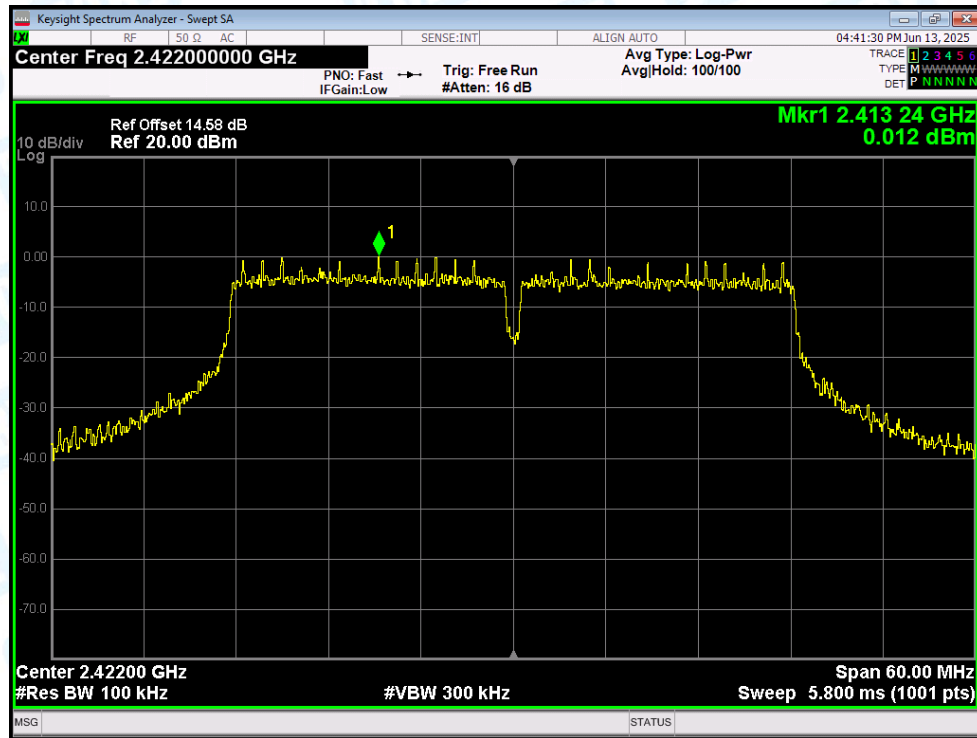
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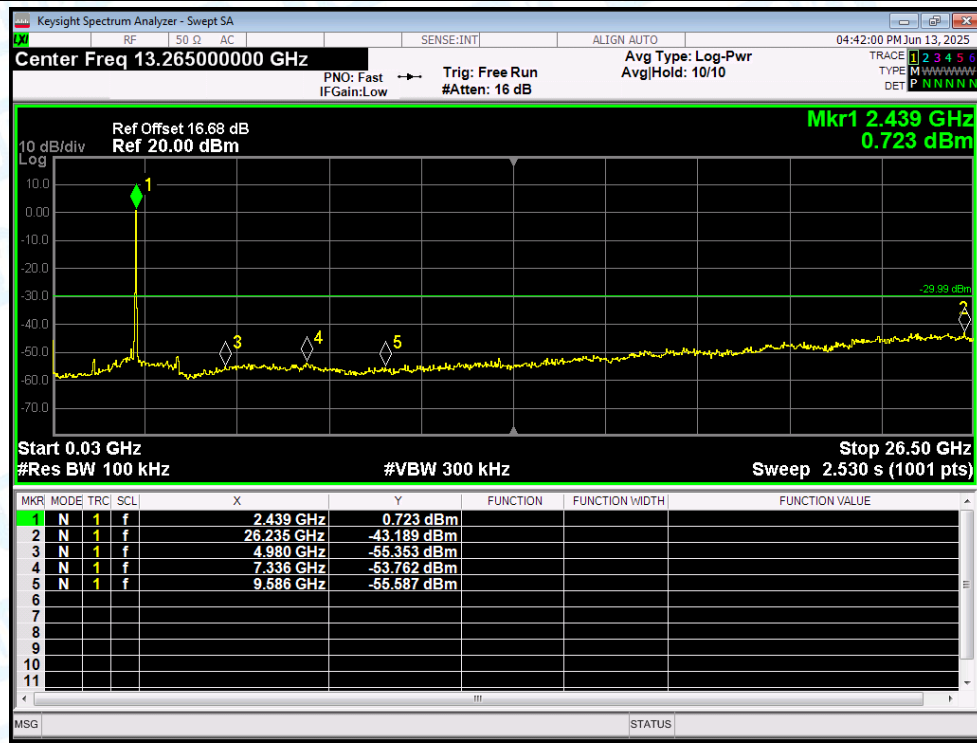
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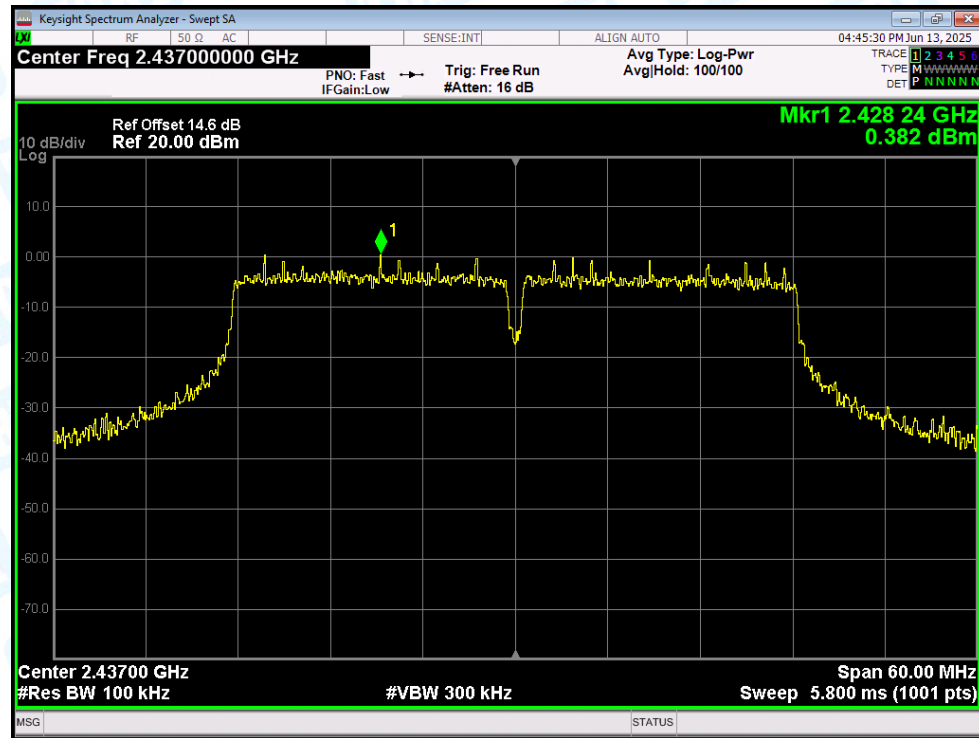
Tx. Spurious NVNT n(HT40) 2422MHz Ant1 Ref



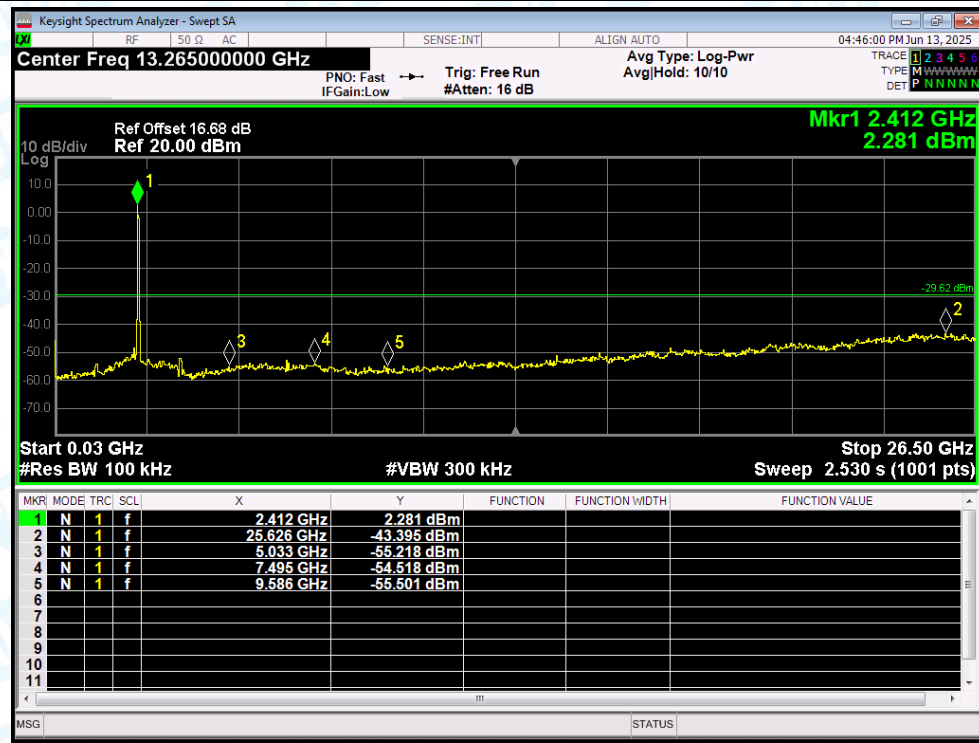
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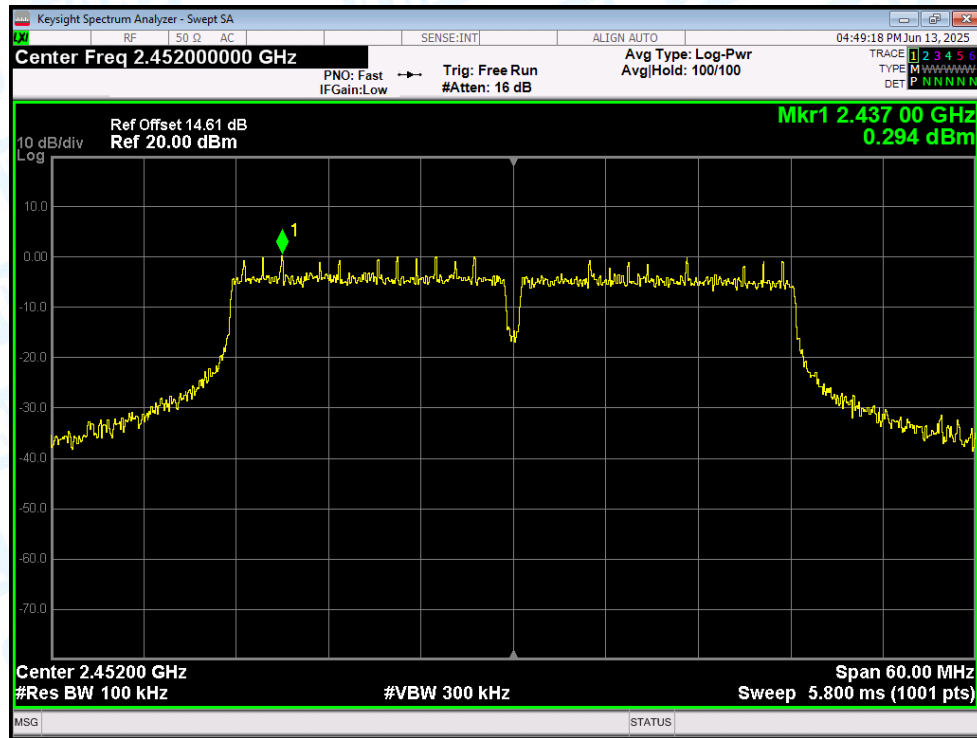
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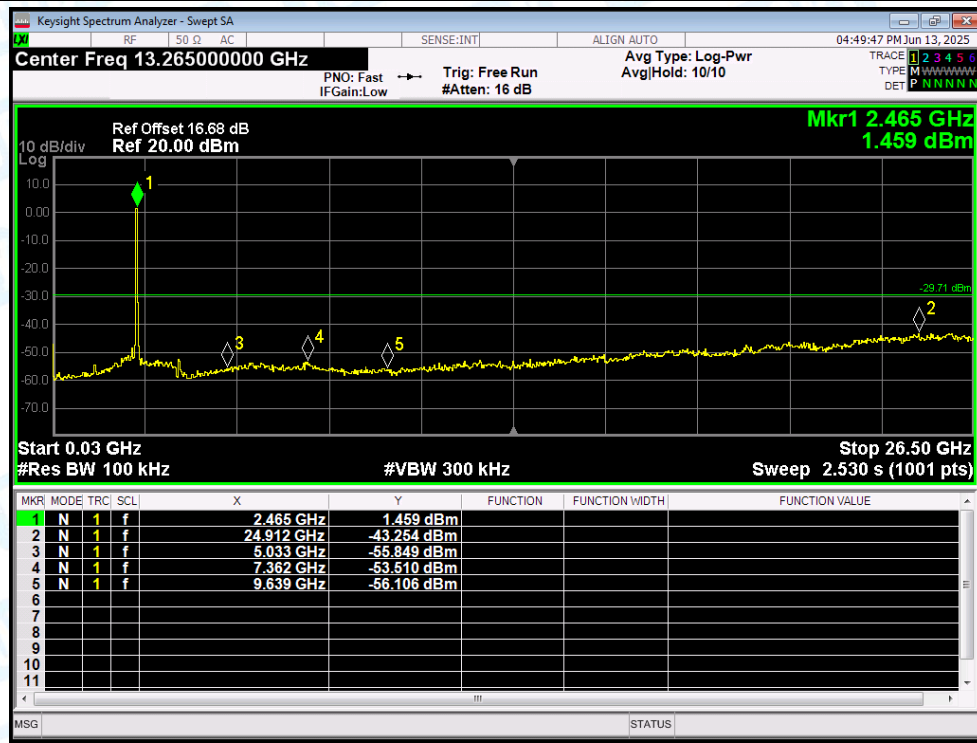
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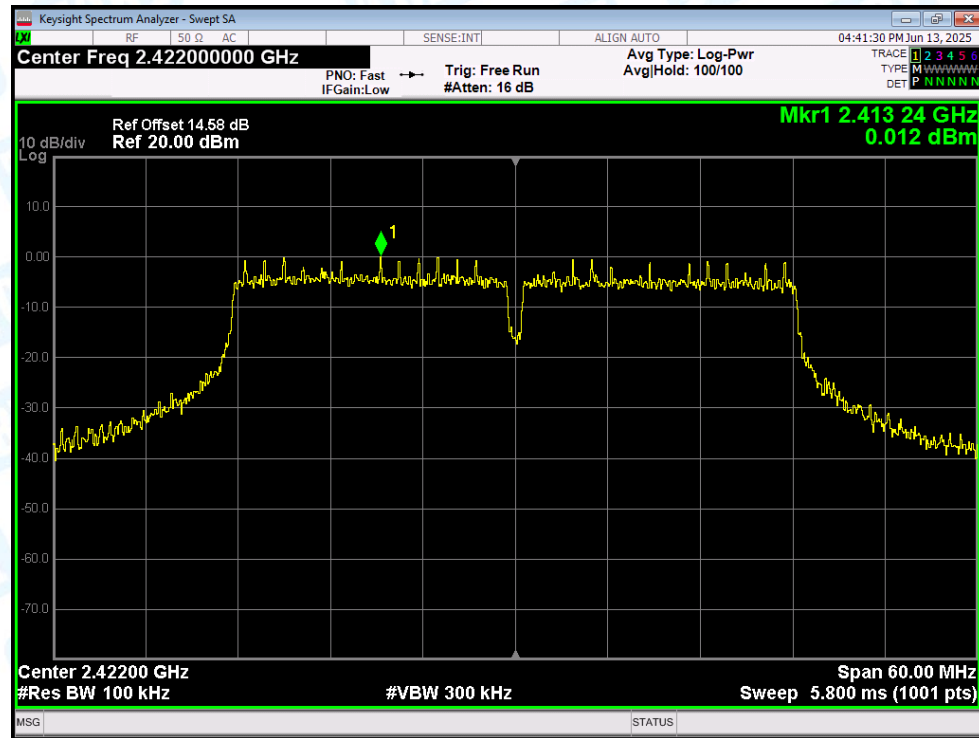
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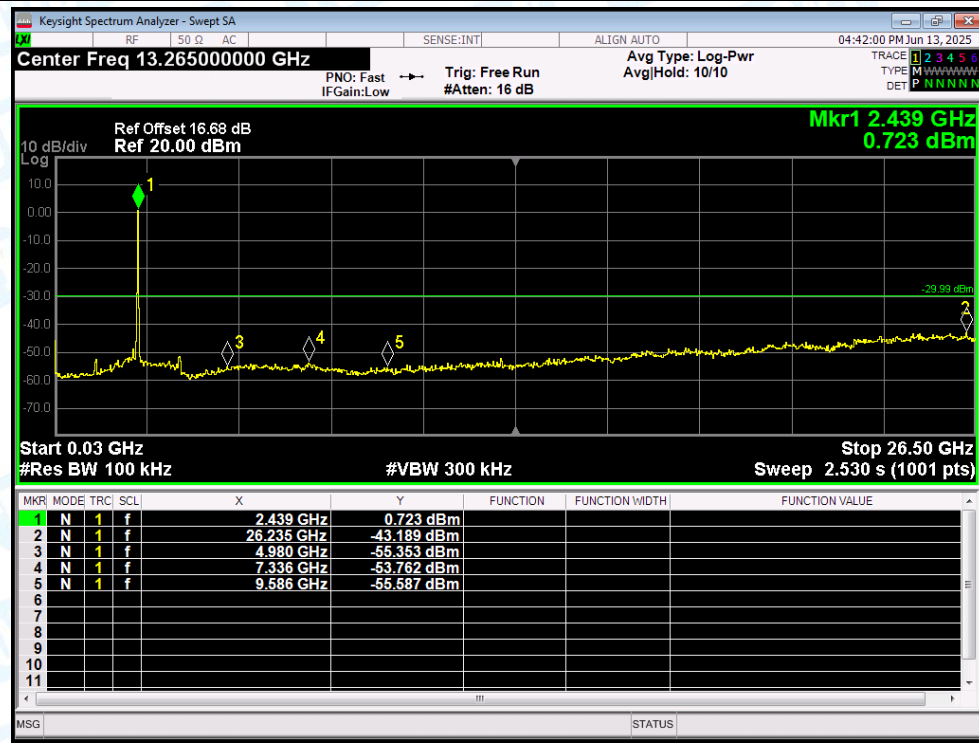
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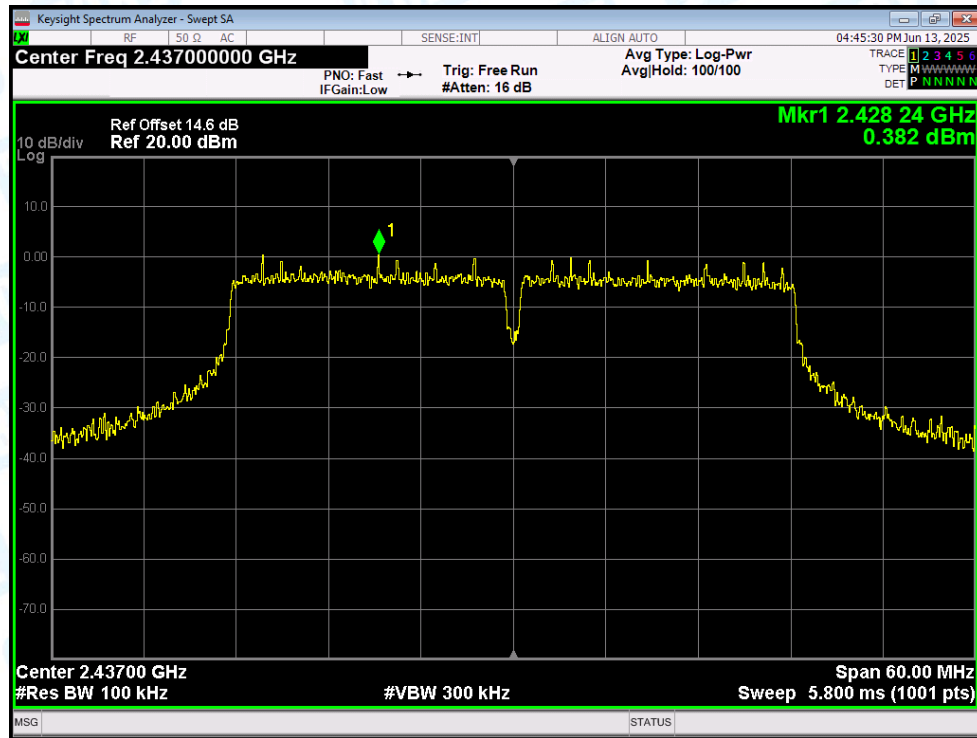
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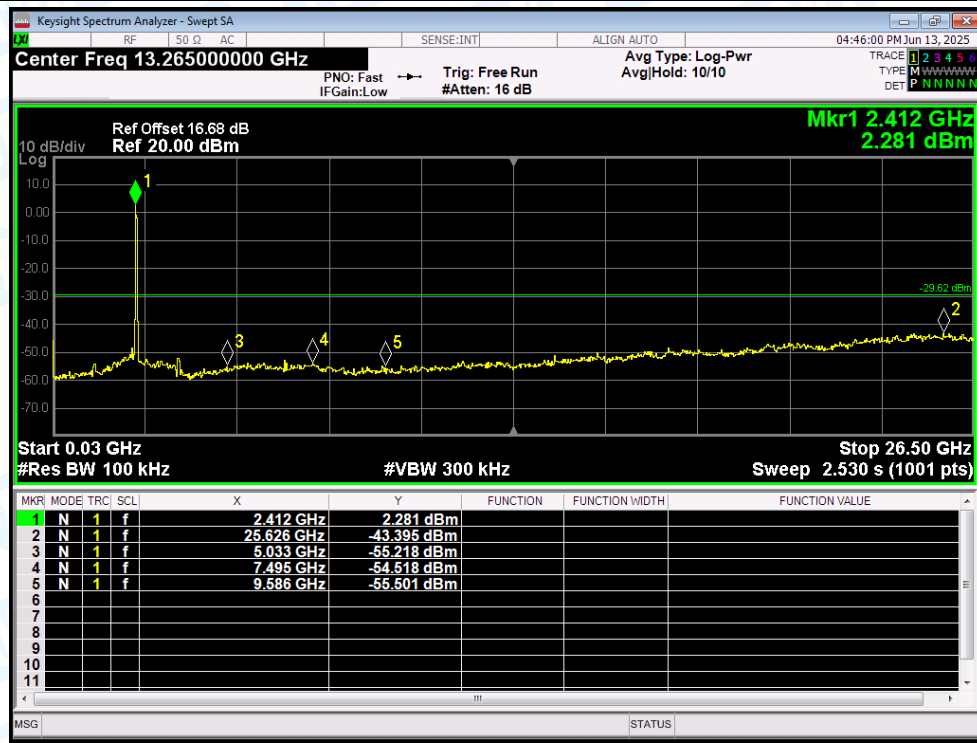
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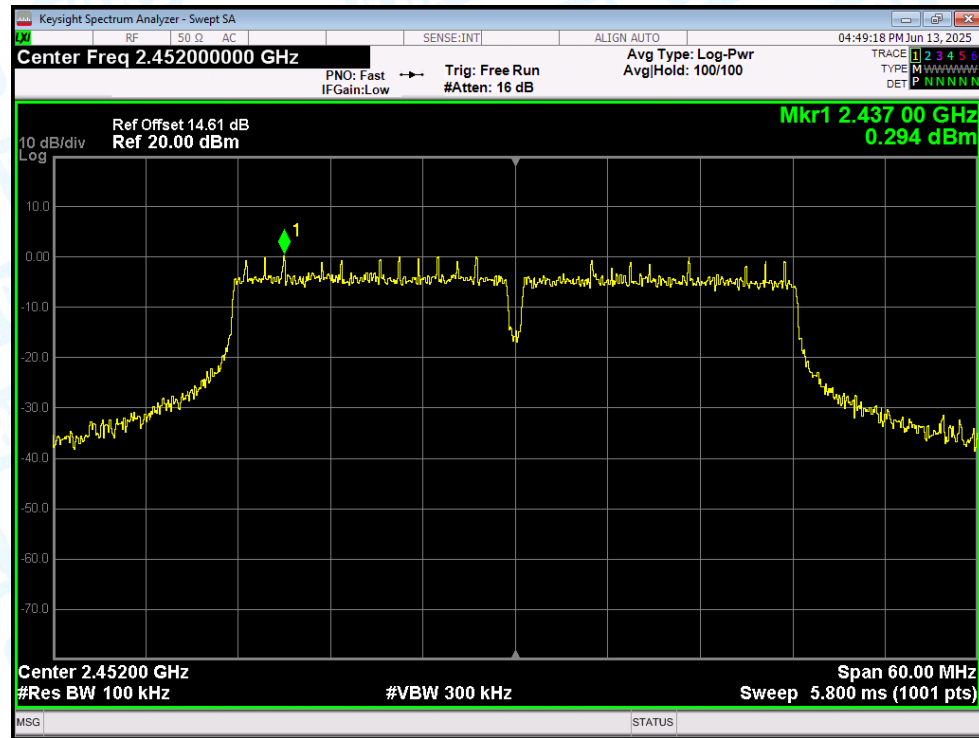
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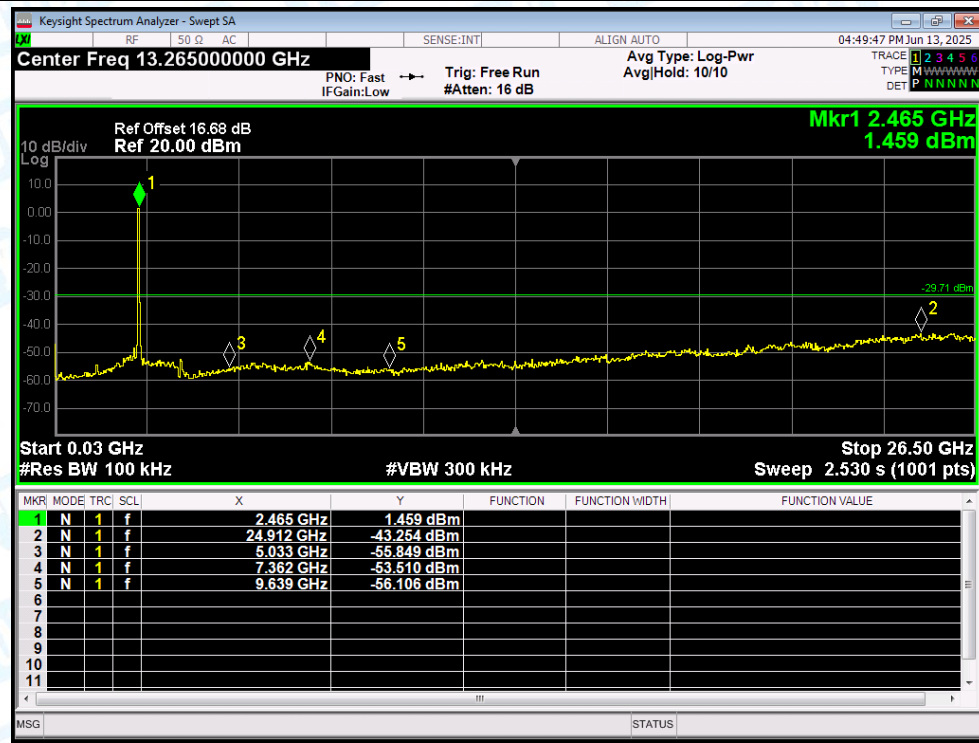
Tx. Spurious NVNT n(HT40) 2437MHz Ant1 Emission



Tx. Spurious NVNT n(HT40) 2452MHz Ant1 Ref



Tx. Spurious NVNT n(HT40) 2452MHz Ant1 Emission



-----END OF THE REPORT-----