

RF Test Data for 2.4G WiFi (Conducted Measurements)

General Description of EUT	
Product Name:	projector
Test Model:	TS-3
Sample ID:	HC-C-202405-0346-01-02#
Environmental Conditions	
Temperature:	25℃
Relative Humidity:	55%
Test Voltage:	AC 120V
Test Engineer:	Mike Yan
Note: For a more detailed features description, please refer to the report TBR-C-202405-0346-62 The report only show the worst case data.	

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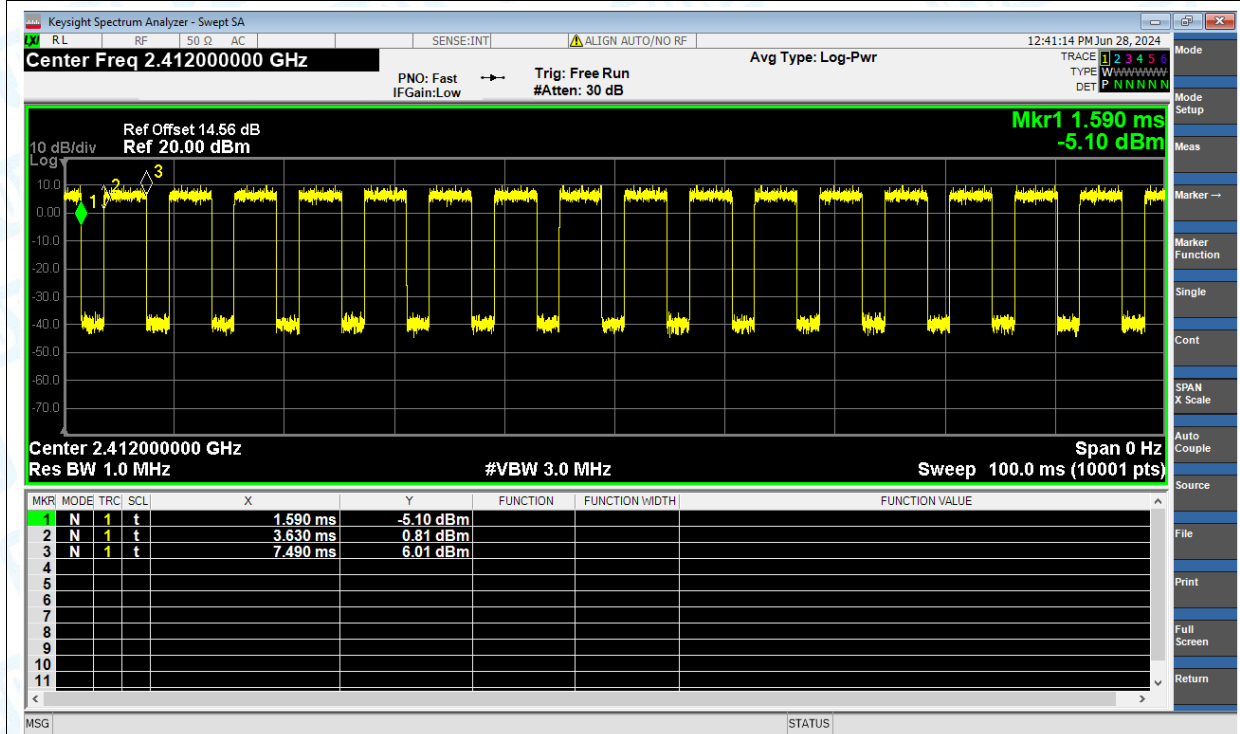
8.Restrict Band76

1.Duty Cycle

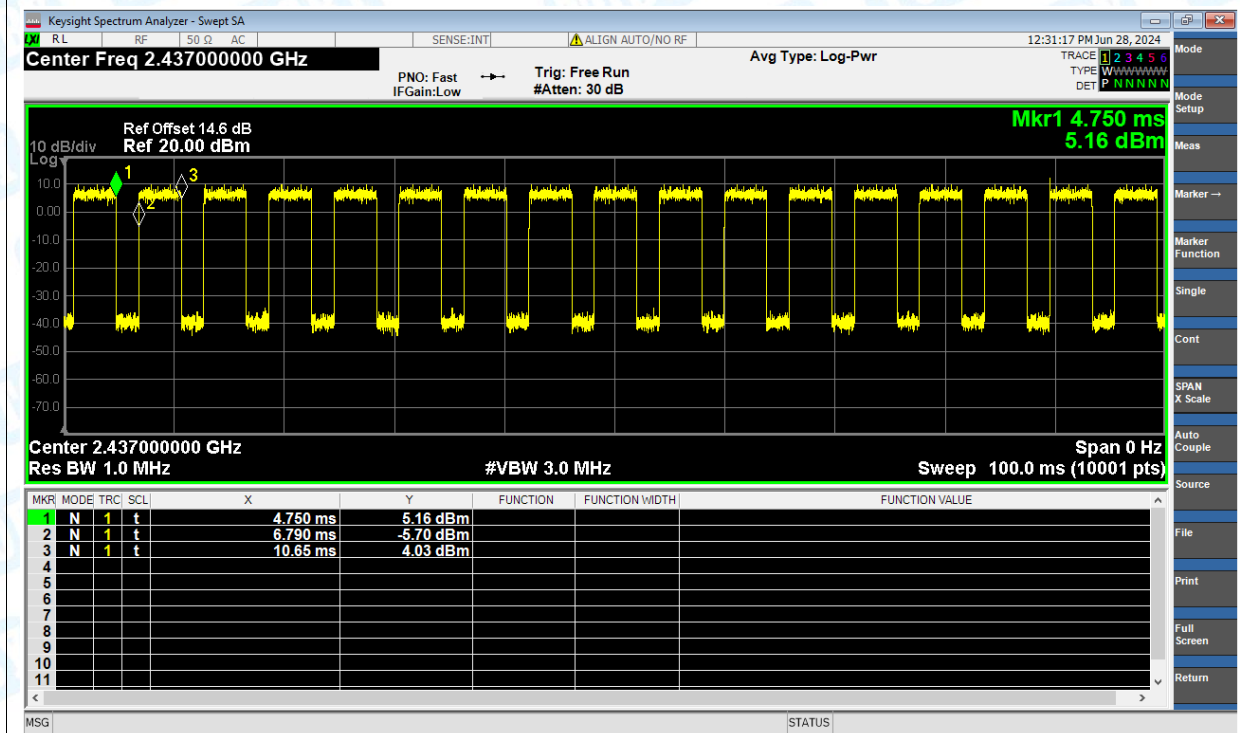
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	ax(VHT20)	2412	Ant1	65.42	1.84	0.26
NVNT	ax(VHT20)	2437	Ant1	65.42	1.84	0.26
NVNT	ax(VHT20)	2462	Ant1	65.48	1.84	0.26
NVNT	ax(VHT40)	2422	Ant1	49	3.1	0.51
NVNT	ax(VHT40)	2437	Ant1	49	3.1	0.51
NVNT	ax(VHT40)	2452	Ant1	49	3.1	0.51
NVNT	b	2412	Ant1	54.95	2.6	0.08
NVNT	b	2437	Ant1	54.95	2.6	0.08
NVNT	b	2462	Ant1	54.95	2.6	0.08
NVNT	g	2412	Ant1	65.79	1.82	2
NVNT	g	2437	Ant1	65.79	1.82	2
NVNT	g	2462	Ant1	67.11	1.73	1.96
NVNT	n(HT20)	2412	Ant1	67.53	1.71	1.92
NVNT	n(HT20)	2437	Ant1	66.23	1.79	1.96
NVNT	n(HT20)	2462	Ant1	67.53	1.71	1.92
NVNT	n(HT40)	2422	Ant1	50.94	2.93	3.7
NVNT	n(HT40)	2437	Ant1	50.94	2.93	3.7
NVNT	n(HT40)	2452	Ant1	52.83	2.77	3.57

Test Graphs

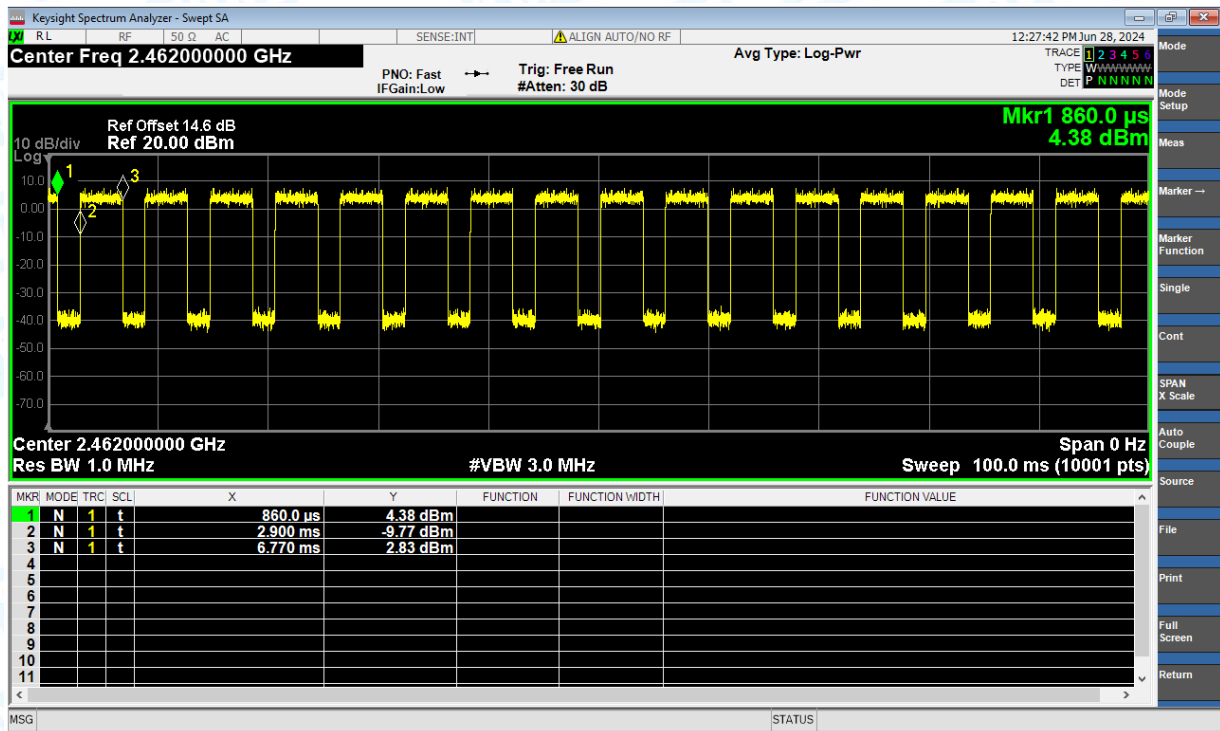
Duty Cycle NVNT ax(VHT20) 2412MHz Ant1



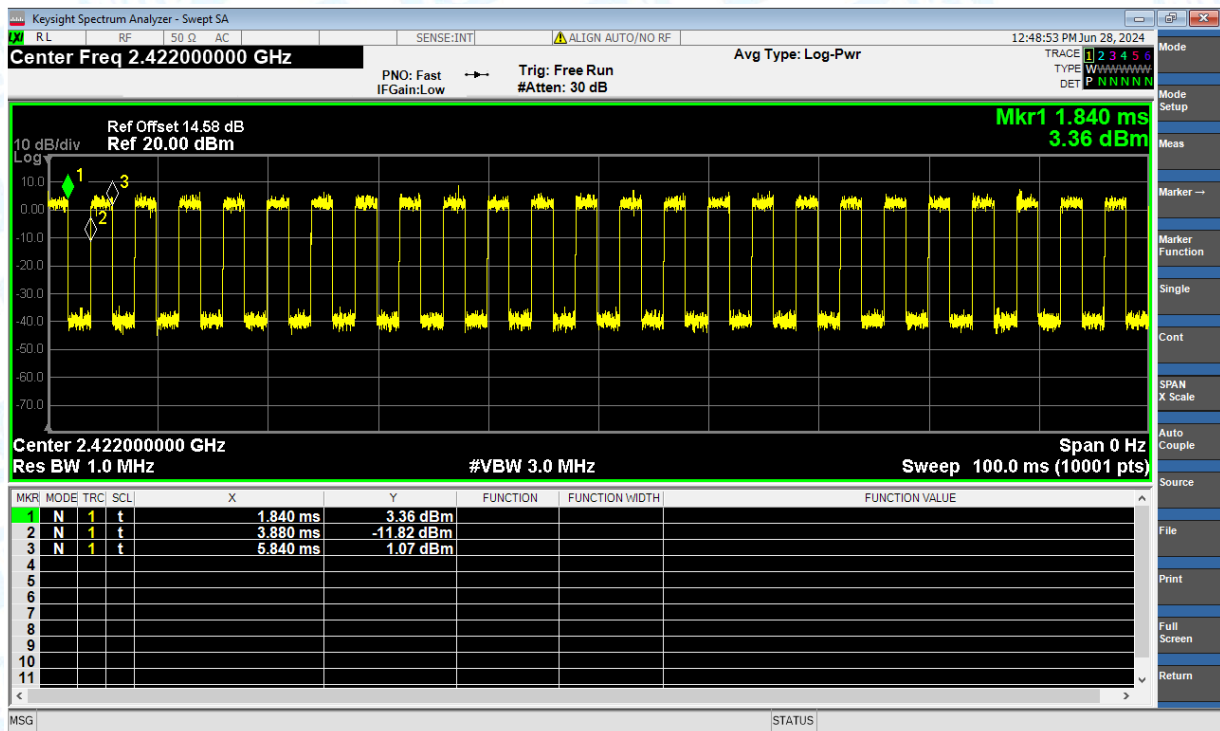
Duty Cycle NVNT ax(VHT20) 2437MHz Ant1



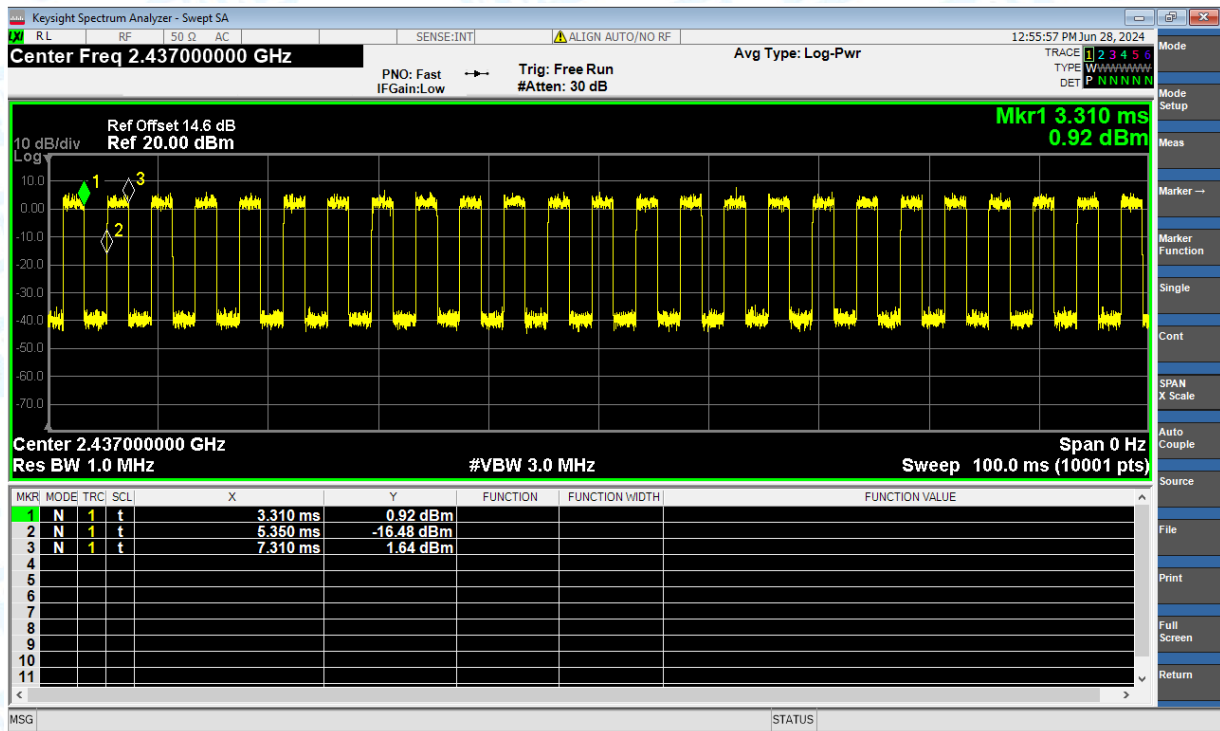
Duty Cycle NVNT ax(VHT20) 2462MHz Ant1



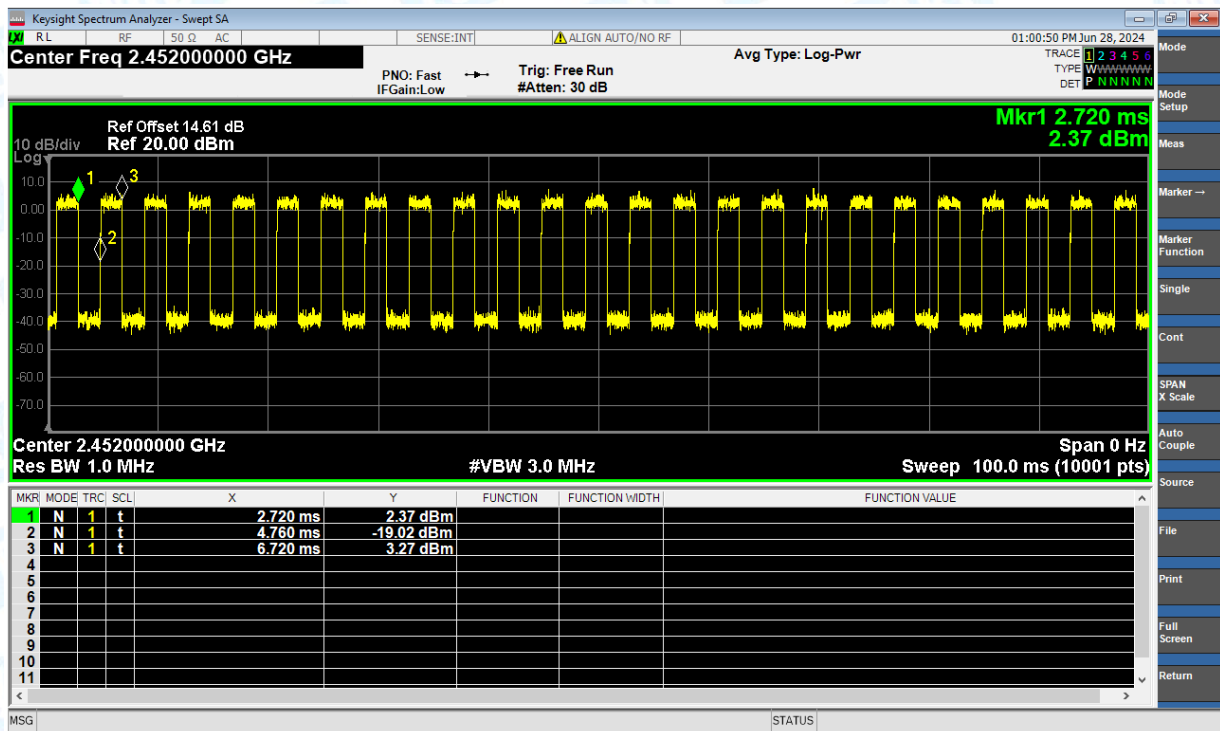
Duty Cycle NVNT ax(VHT40) 2422MHz Ant1



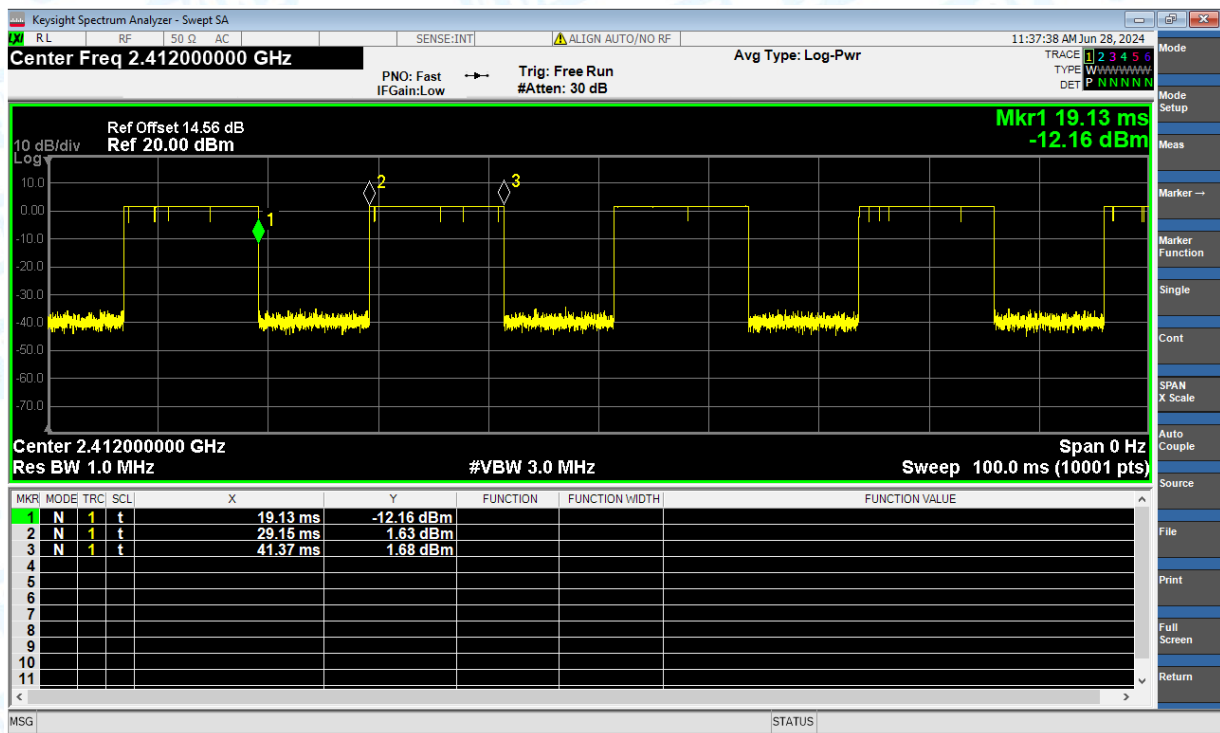
Duty Cycle NVNT ax(VHT40) 2437MHz Ant1



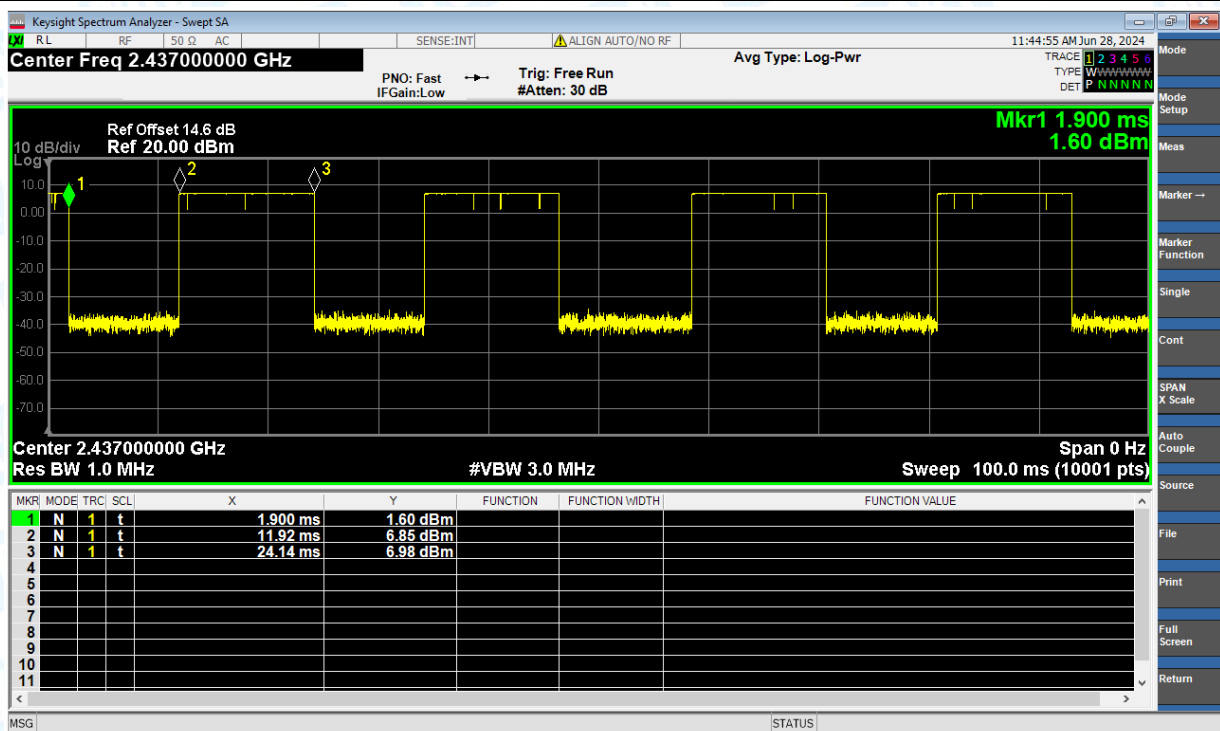
Duty Cycle NVNT ax(VHT40) 2452MHz Ant1



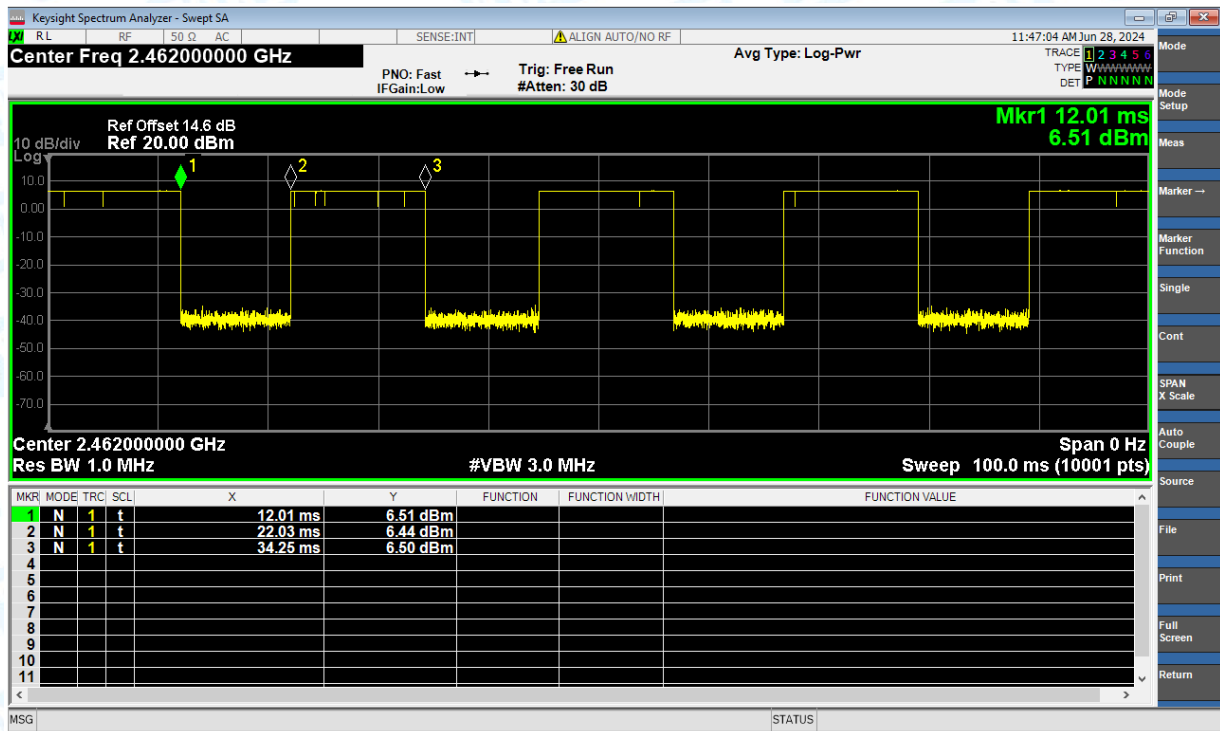
Duty Cycle NVNT b 2412MHz Ant1



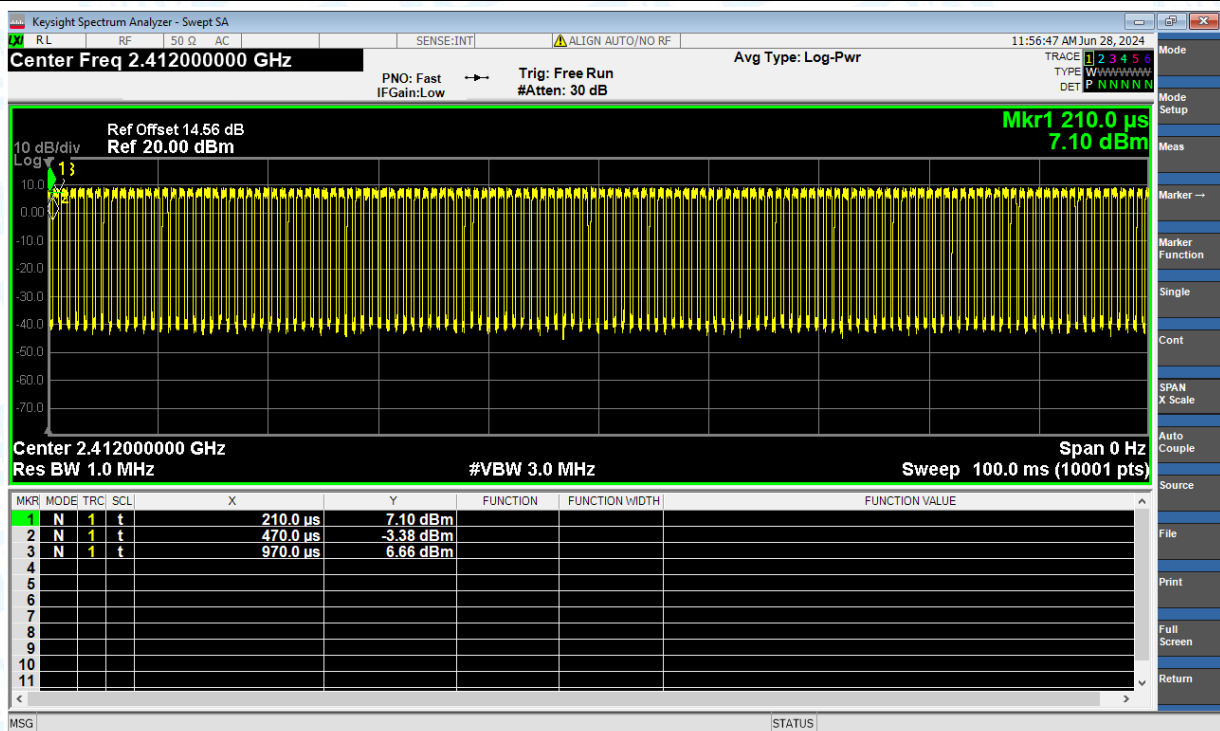
Duty Cycle NVNT b 2437MHz Ant1



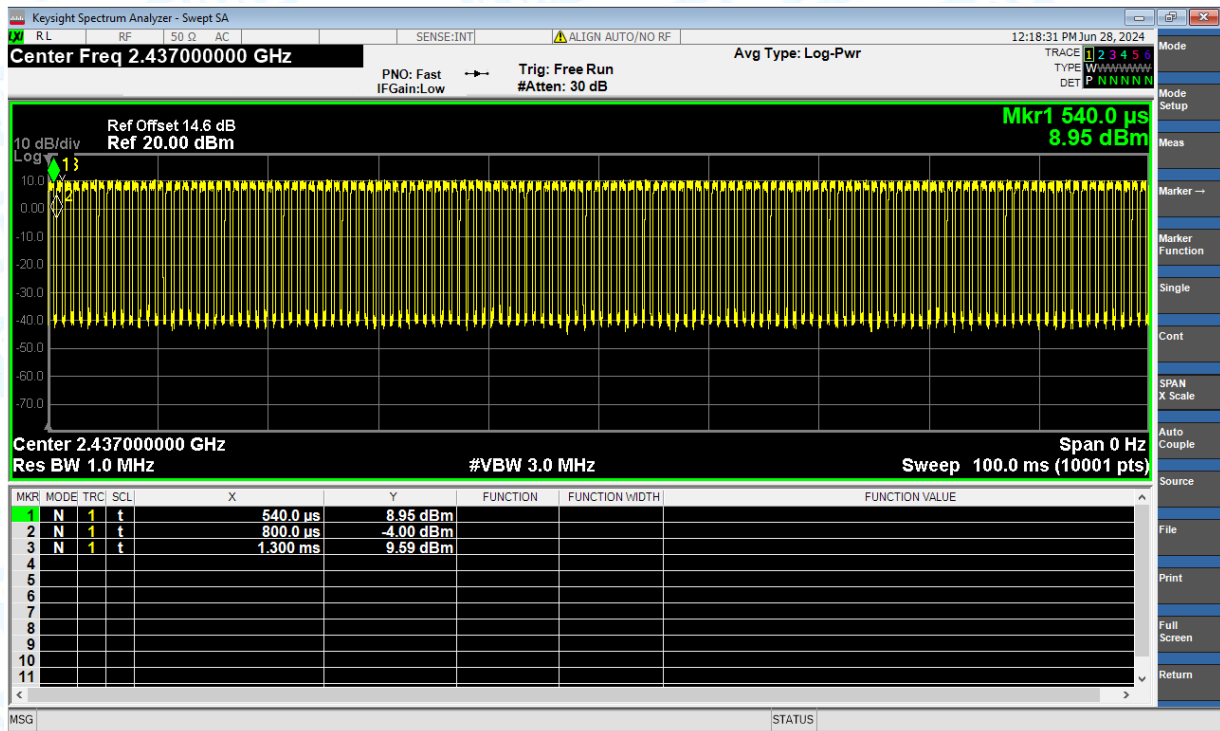
Duty Cycle NVNT b 2462MHz Ant1



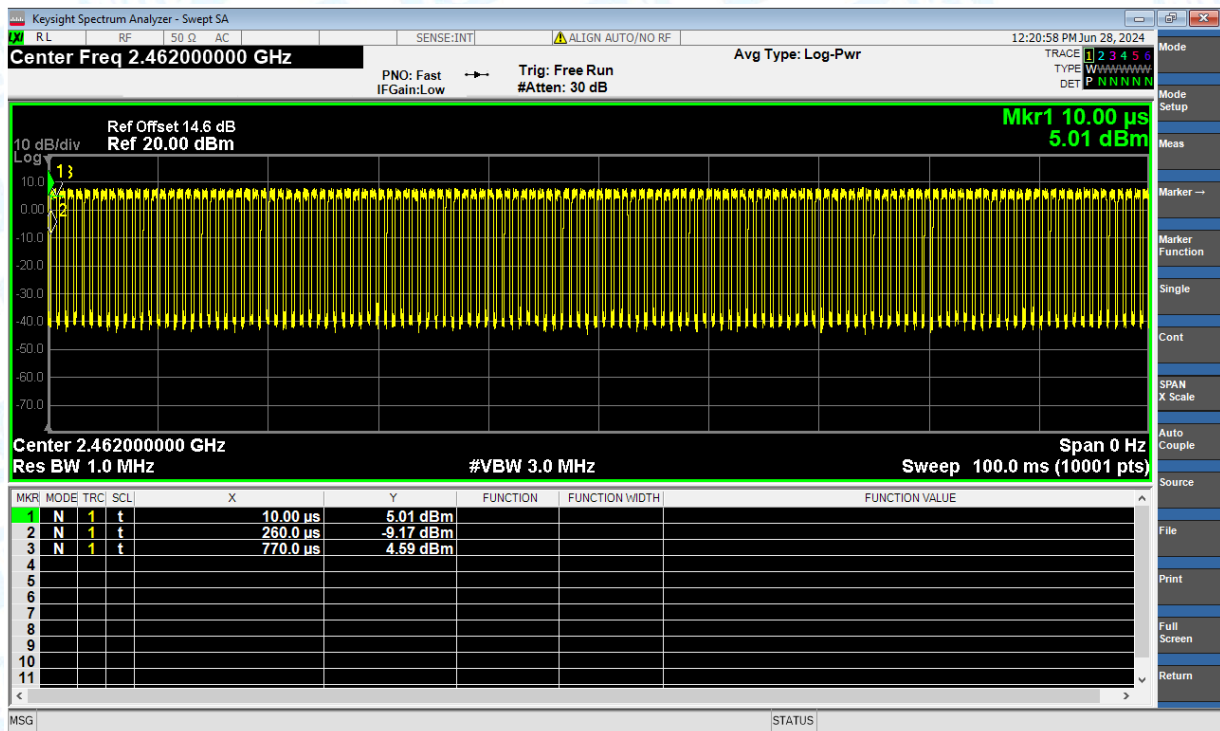
Duty Cycle NVNT g 2412MHz Ant1



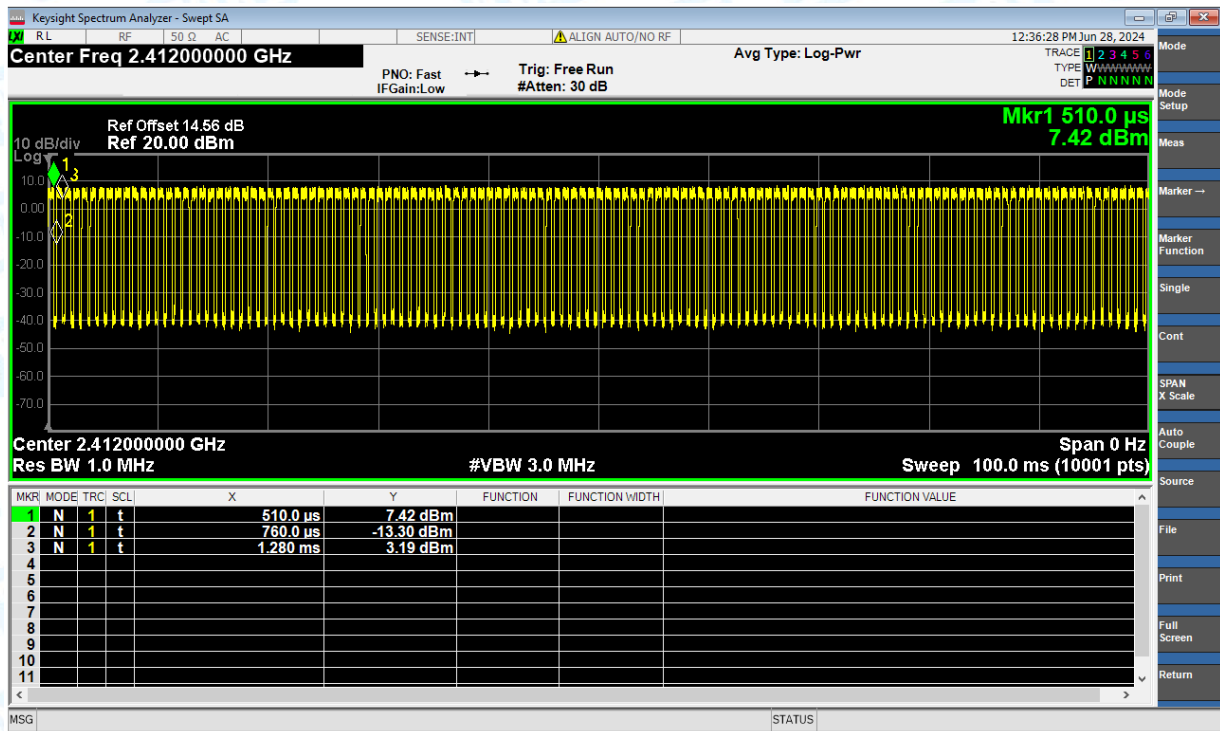
Duty Cycle NVNT g 2437MHz Ant1



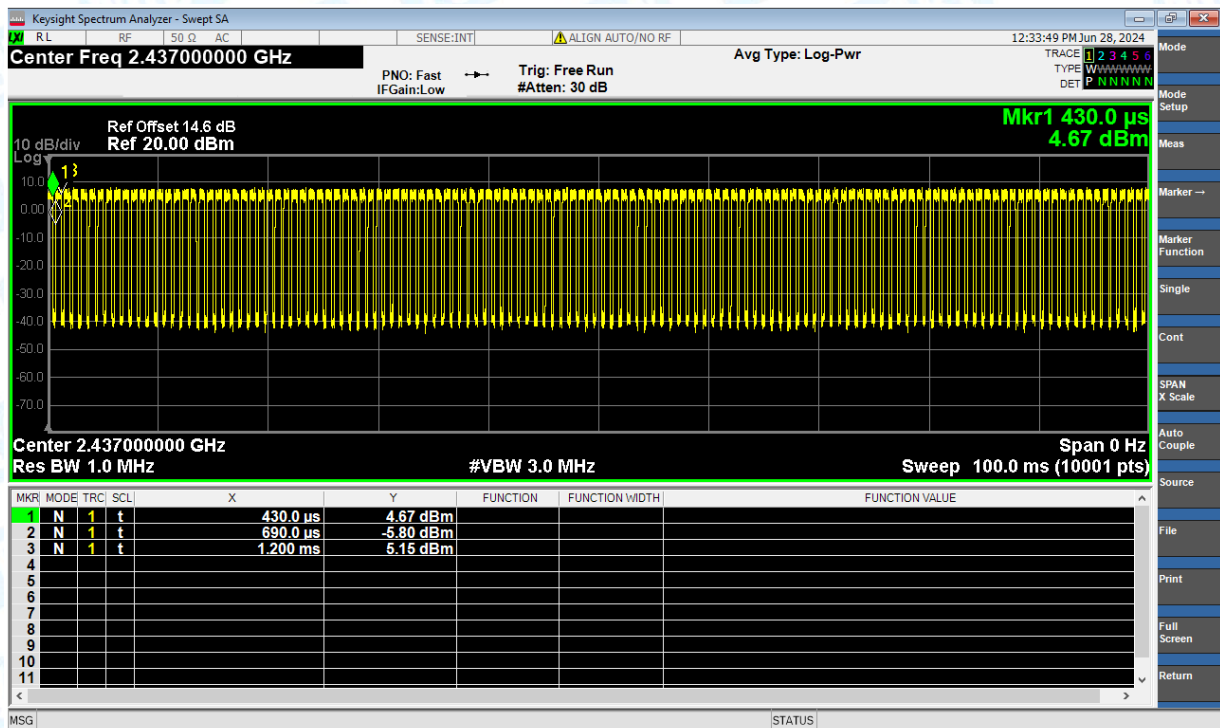
Duty Cycle NVNT g 2462MHz Ant1



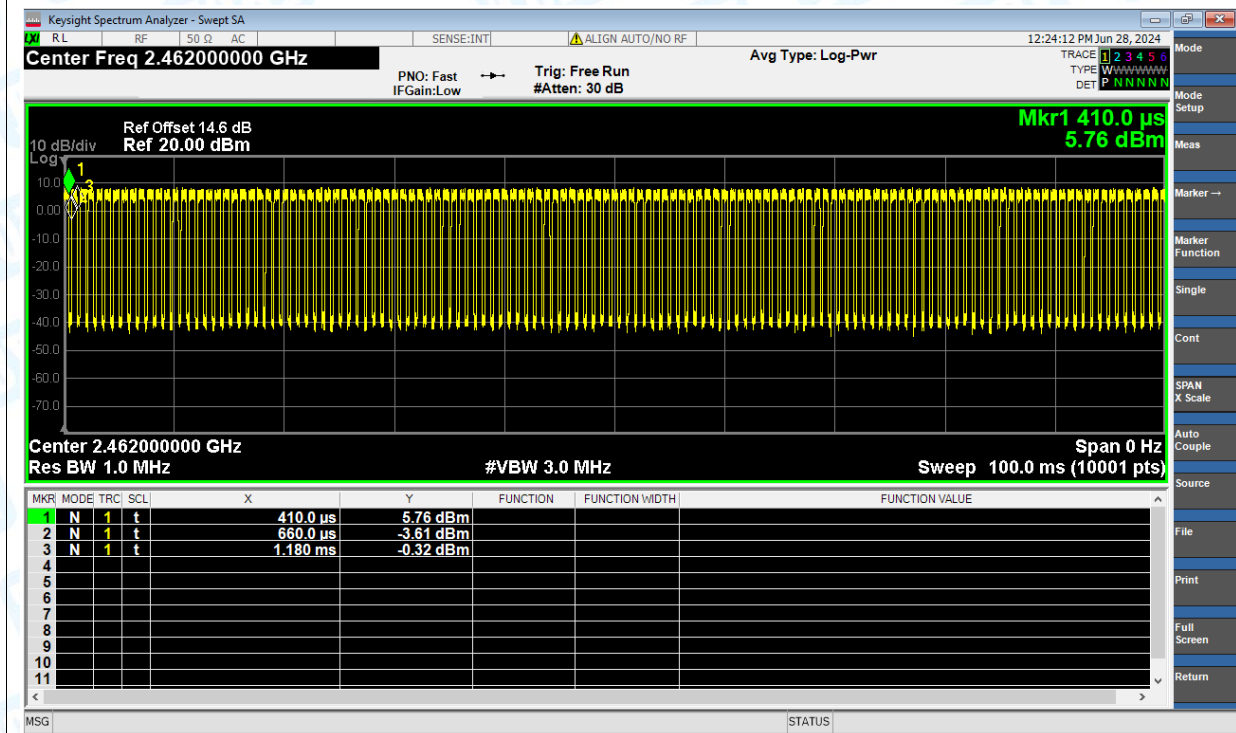
Duty Cycle NVNT n(HT20) 2412MHz Ant1



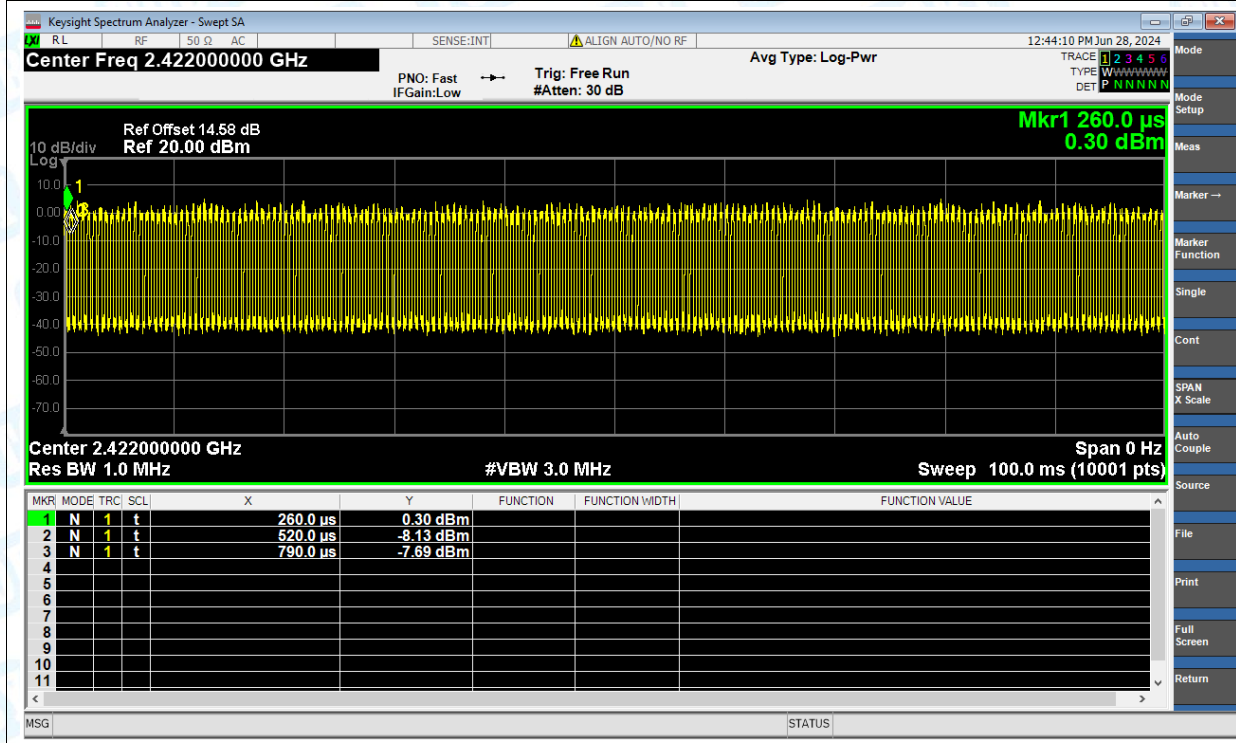
Duty Cycle NVNT n(HT20) 2437MHz Ant1



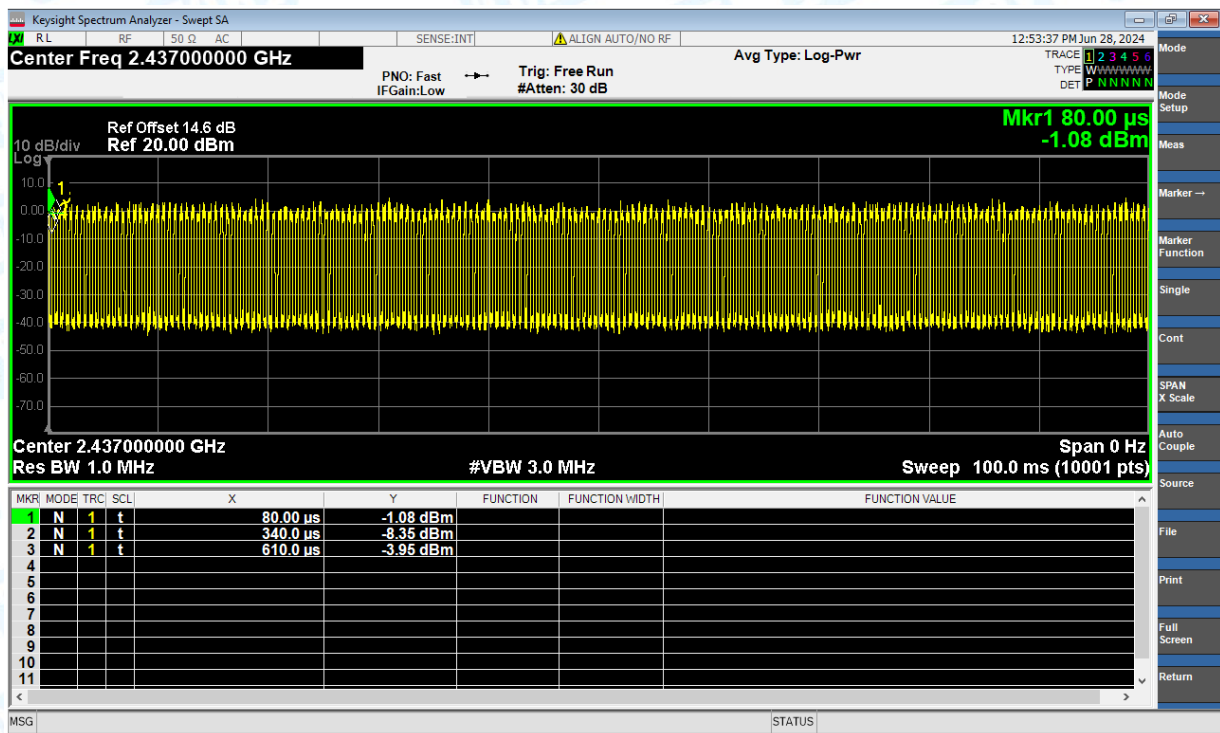
Duty Cycle NVNT n(HT20) 2462MHz Ant1



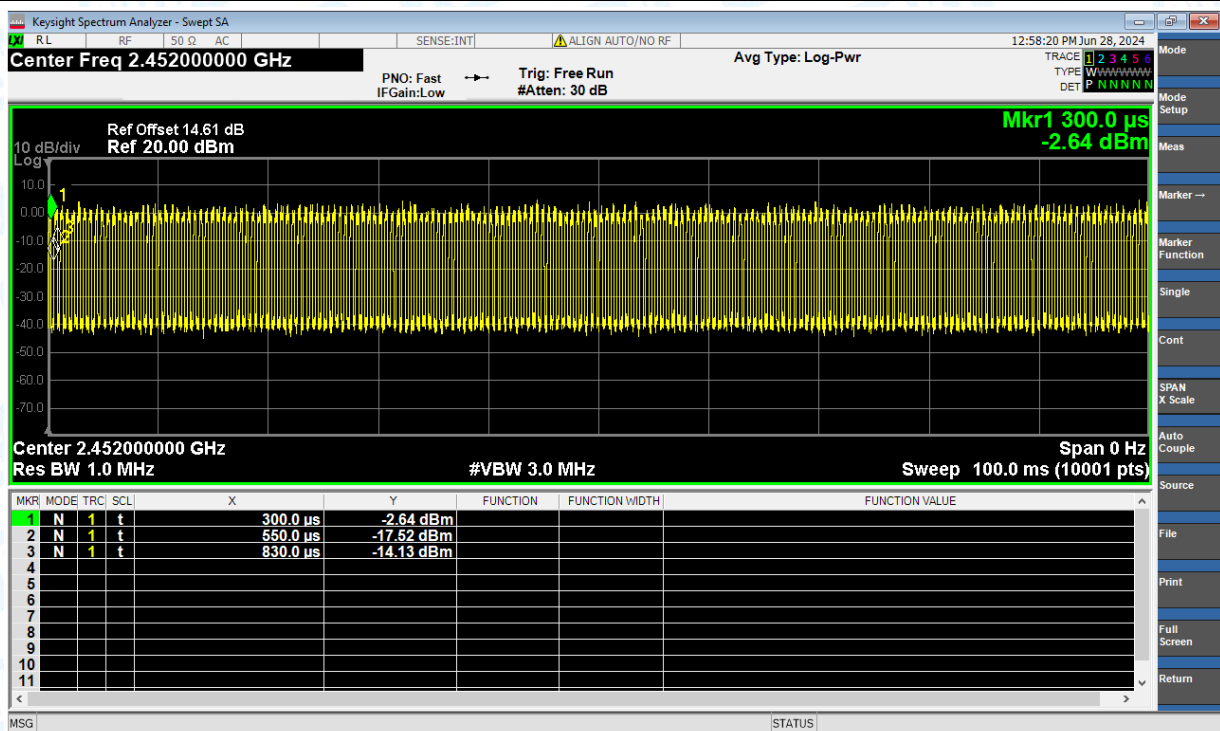
Duty Cycle NVNT n(HT40) 2422MHz Ant1



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	14.19	30	Pass
NVNT	ax(VHT20)	2437	Ant1	14.59	30	Pass
NVNT	ax(VHT20)	2462	Ant1	15.05	30	Pass
NVNT	ax(VHT40)	2422	Ant1	15.33	30	Pass
NVNT	ax(VHT40)	2437	Ant1	15.55	30	Pass
NVNT	ax(VHT40)	2452	Ant1	15.79	30	Pass
NVNT	b	2412	Ant1	15.37	30	Pass
NVNT	b	2437	Ant1	15.81	30	Pass
NVNT	b	2462	Ant1	15.1	30	Pass
NVNT	g	2412	Ant1	16.87	30	Pass
NVNT	g	2437	Ant1	17.44	30	Pass
NVNT	g	2462	Ant1	14.72	30	Pass
NVNT	n(HT20)	2412	Ant1	14.42	30	Pass
NVNT	n(HT20)	2437	Ant1	14.61	30	Pass
NVNT	n(HT20)	2462	Ant1	14.94	30	Pass
NVNT	n(HT40)	2422	Ant1	15.14	30	Pass
NVNT	n(HT40)	2437	Ant1	15.21	30	Pass
NVNT	n(HT40)	2452	Ant1	15.17	30	Pass

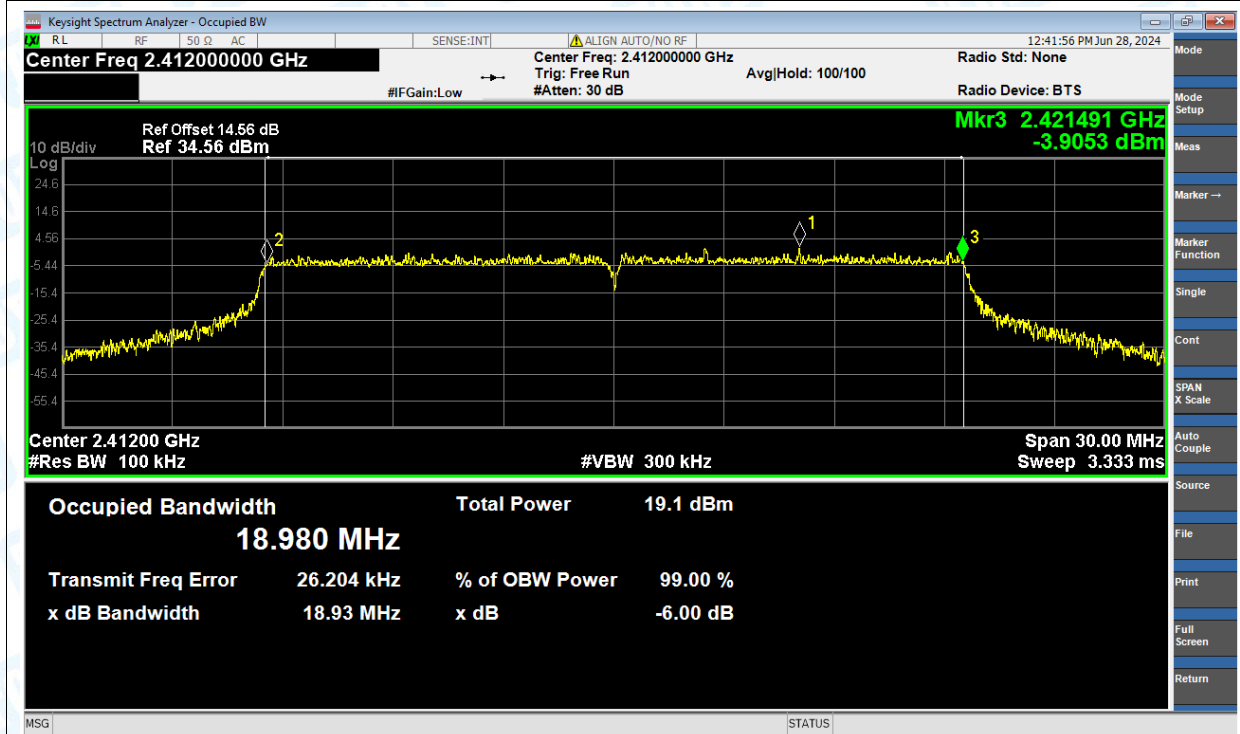
Note: The duty factor has been compensated into the result.

3.-6dB Bandwidth

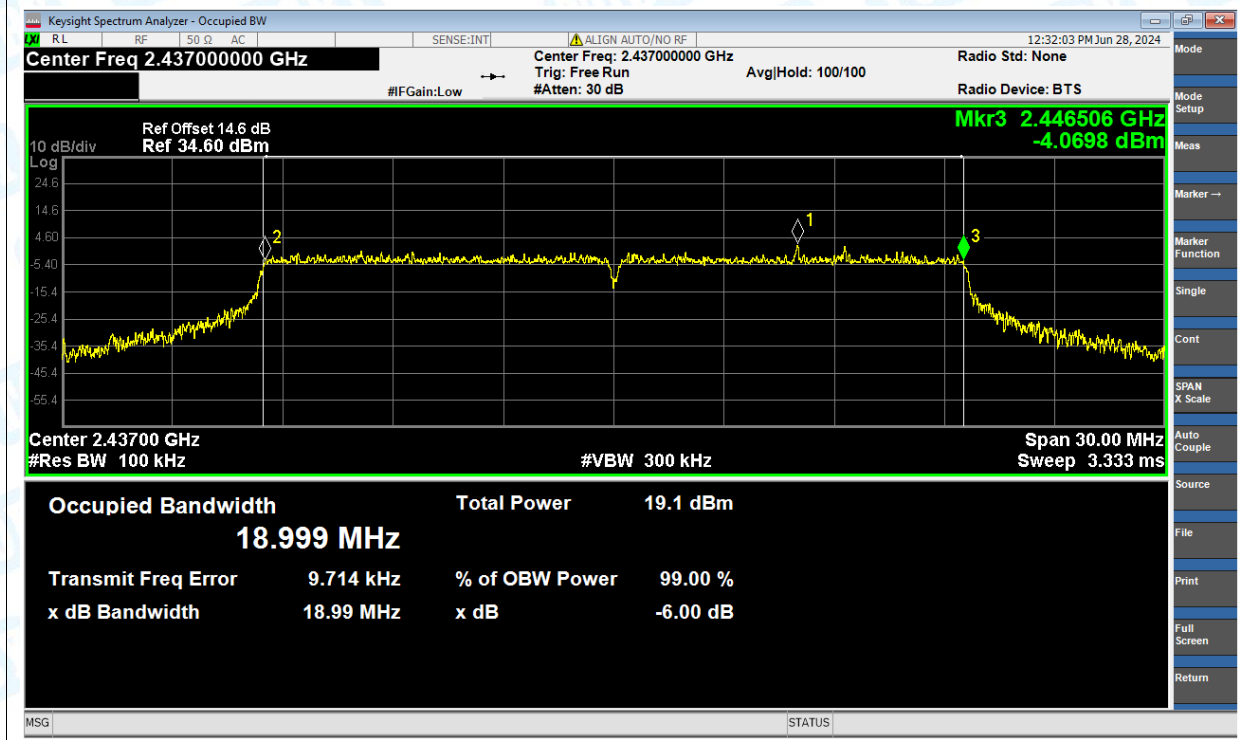
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	ax(VHT20)	2412	Ant1	18.93	0.5	Pass
NVNT	ax(VHT20)	2437	Ant1	18.99	0.5	Pass
NVNT	ax(VHT20)	2462	Ant1	18.99	0.5	Pass
NVNT	ax(VHT40)	2422	Ant1	37.75	0.5	Pass
NVNT	ax(VHT40)	2437	Ant1	37.73	0.5	Pass
NVNT	ax(VHT40)	2452	Ant1	37.86	0.5	Pass
NVNT	b	2412	Ant1	9.06	0.5	Pass
NVNT	b	2437	Ant1	10	0.5	Pass
NVNT	b	2462	Ant1	9.08	0.5	Pass
NVNT	g	2412	Ant1	16.35	0.5	Pass
NVNT	g	2437	Ant1	16.35	0.5	Pass
NVNT	g	2462	Ant1	16.34	0.5	Pass
NVNT	n(HT20)	2412	Ant1	17.58	0.5	Pass
NVNT	n(HT20)	2437	Ant1	17.59	0.5	Pass
NVNT	n(HT20)	2462	Ant1	17.57	0.5	Pass
NVNT	n(HT40)	2422	Ant1	36.12	0.5	Pass
NVNT	n(HT40)	2437	Ant1	36.3	0.5	Pass
NVNT	n(HT40)	2452	Ant1	36.29	0.5	Pass

Test Graphs

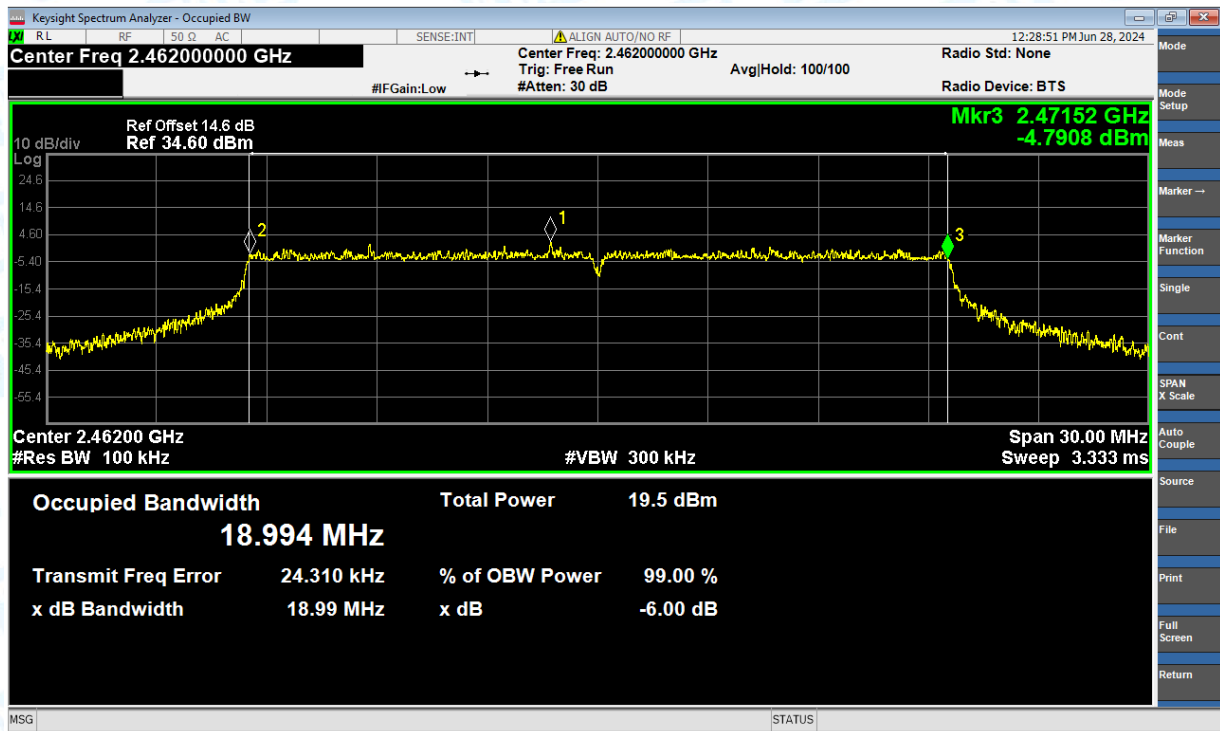
-6dB Bandwidth NVNT ax(VHT20) 2412MHz Ant1



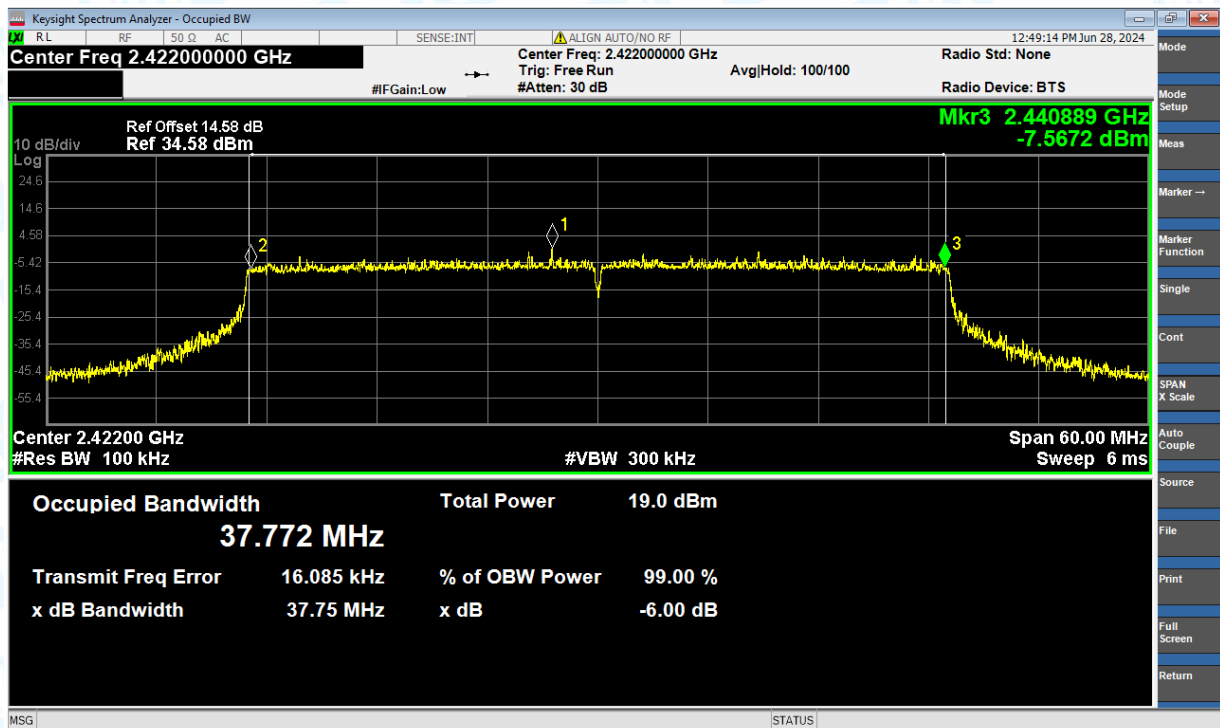
-6dB Bandwidth NVNT ax(VHT20) 2437MHz Ant1



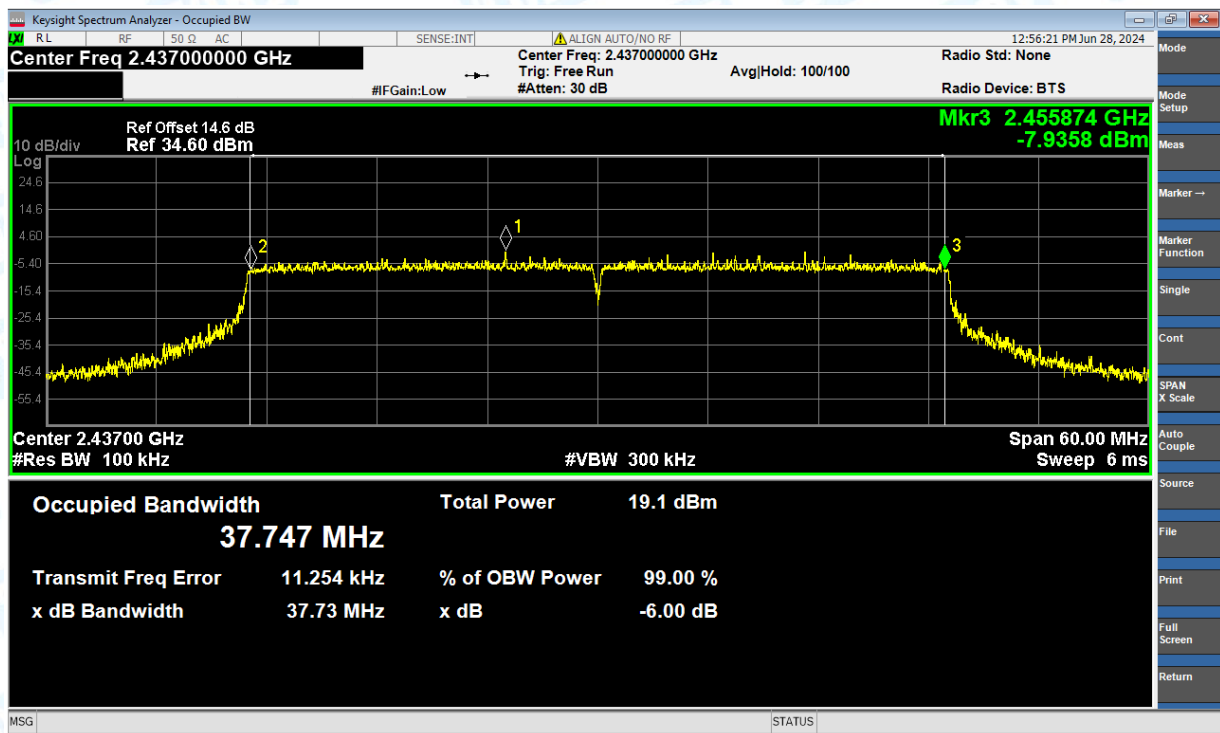
-6dB Bandwidth NVNT ax(VHT20) 2462MHz Ant1



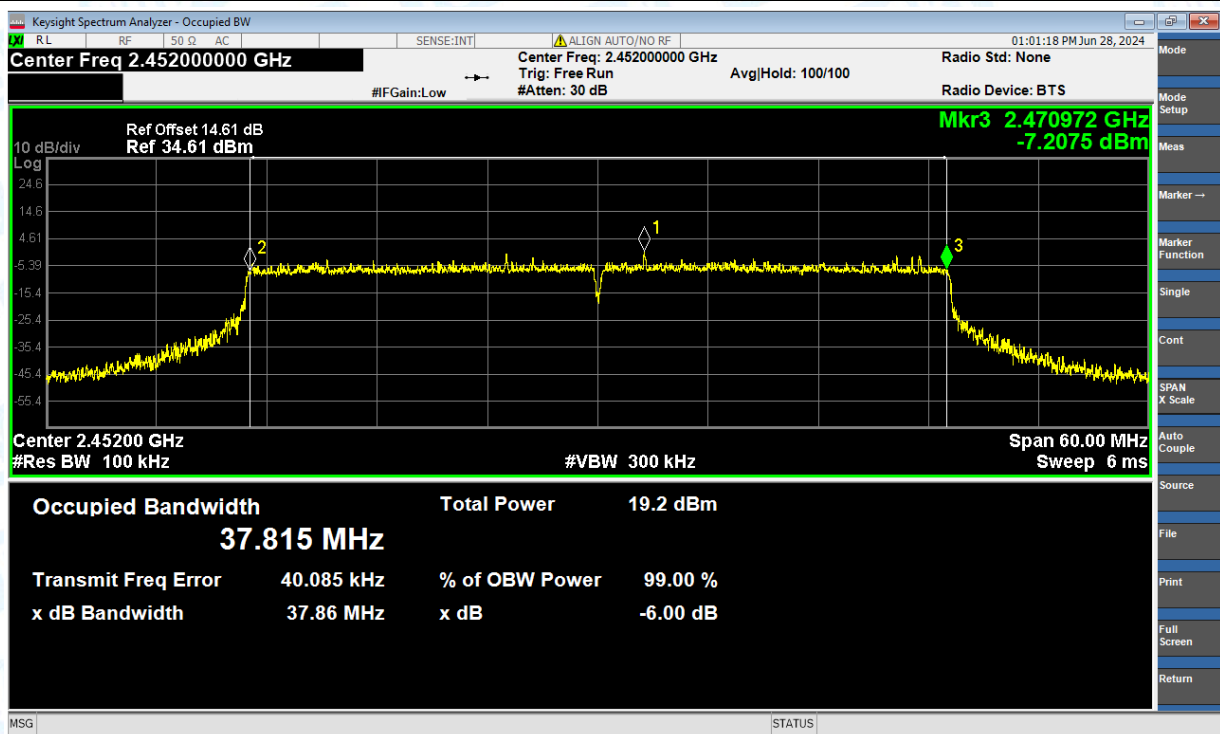
-6dB Bandwidth NVNT ax(VHT40) 2422MHz Ant1



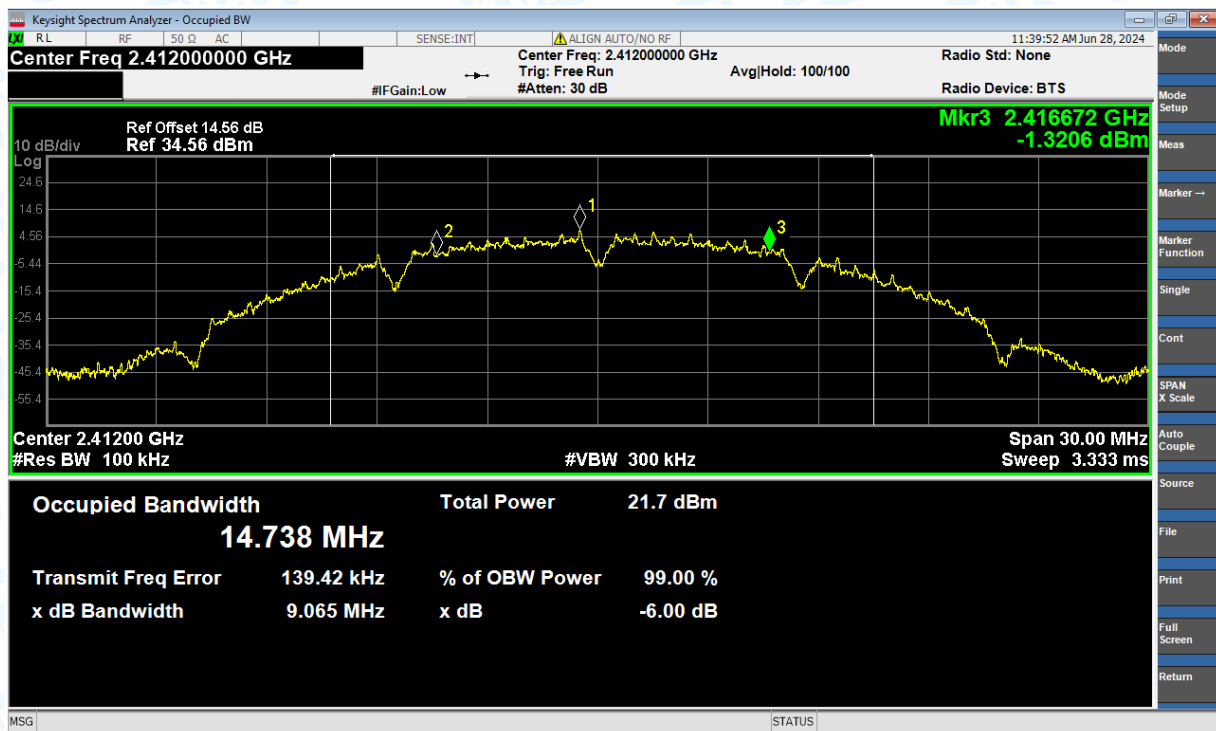
-6dB Bandwidth NVNT ax(VHT40) 2437MHz Ant1



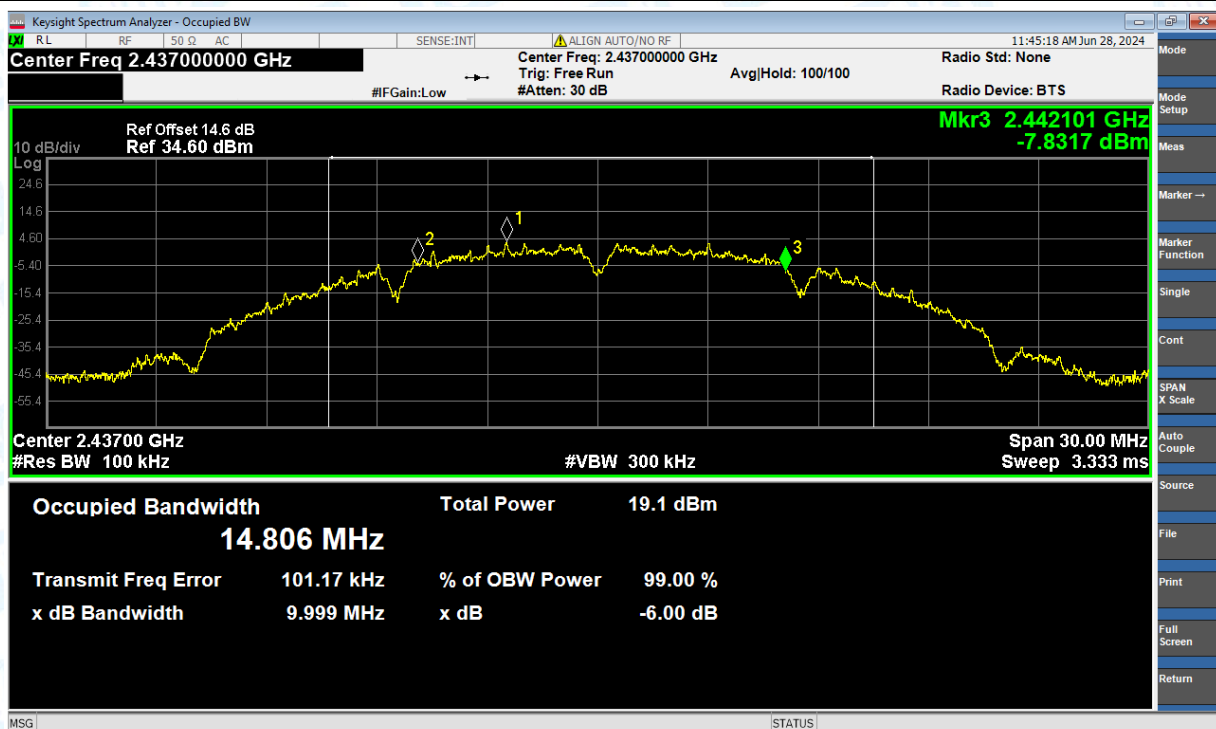
-6dB Bandwidth NVNT ax(VHT40) 2452MHz Ant1



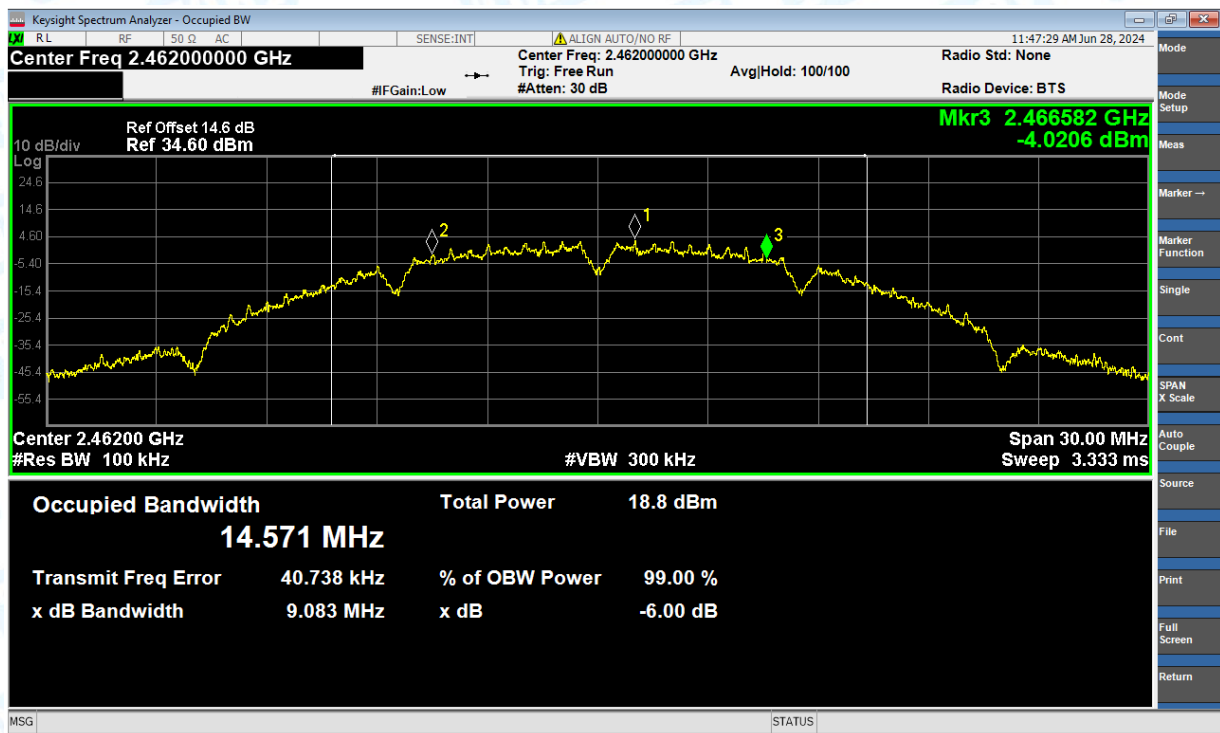
-6dB Bandwidth NVNT b 2412MHz Ant1



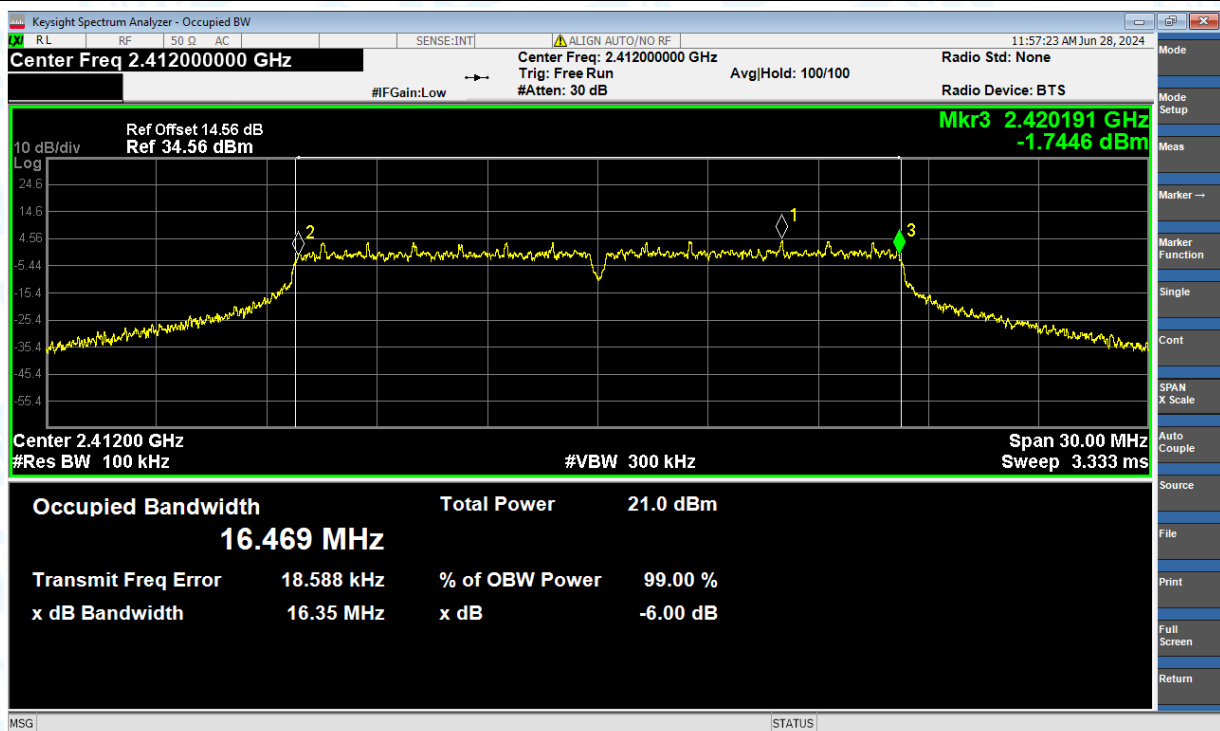
-6dB Bandwidth NVNT b 2437MHz Ant1



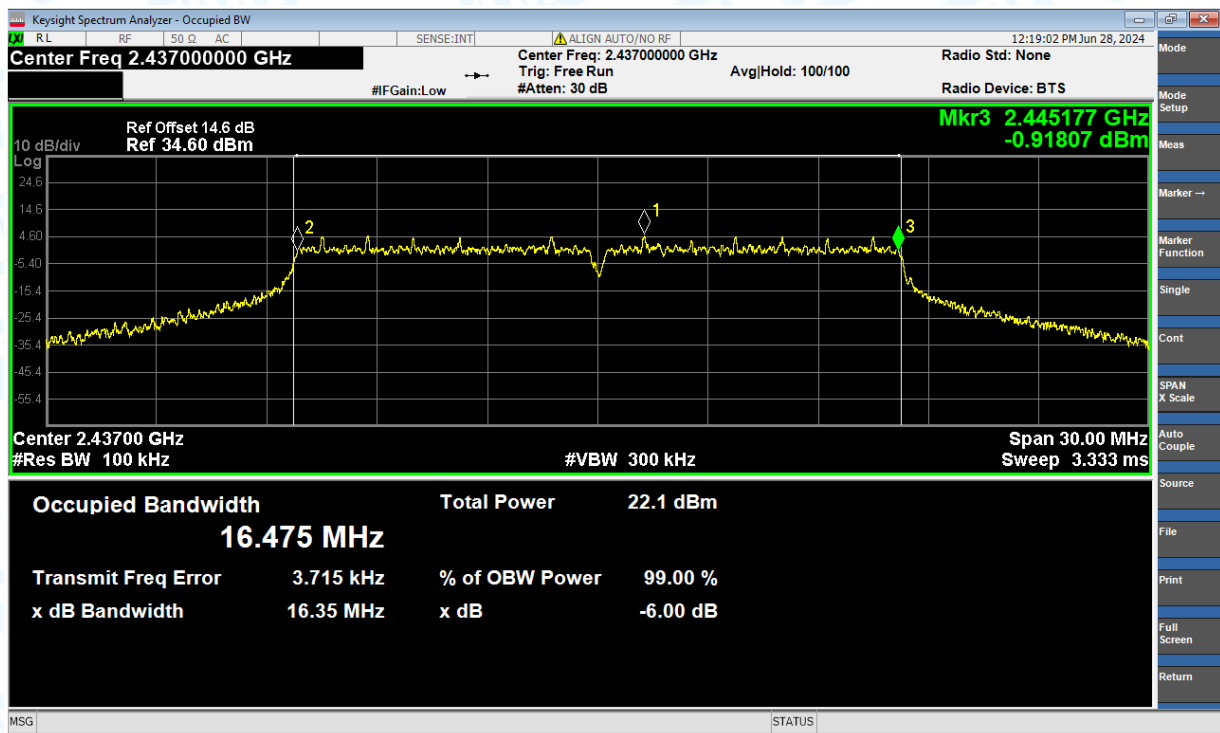
-6dB Bandwidth NVNT b 2462MHz Ant1



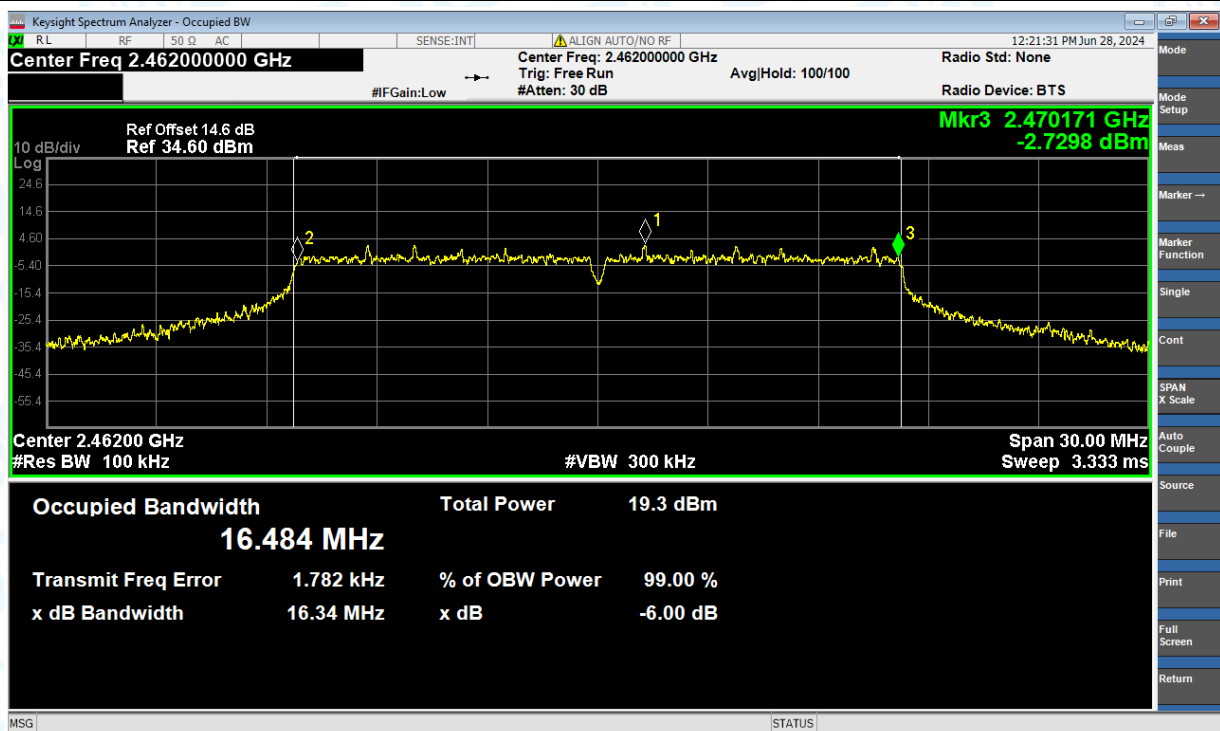
-6dB Bandwidth NVNT g 2412MHz Ant1



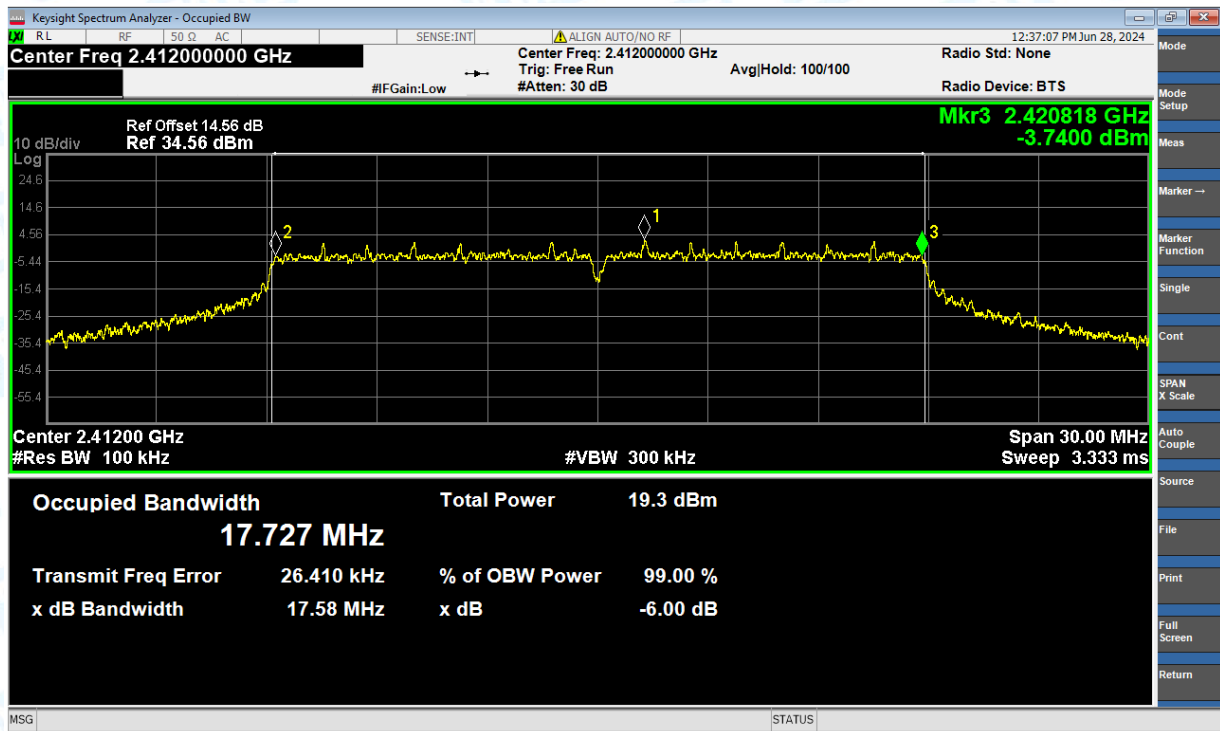
-6dB Bandwidth NVNT g 2437MHz Ant1



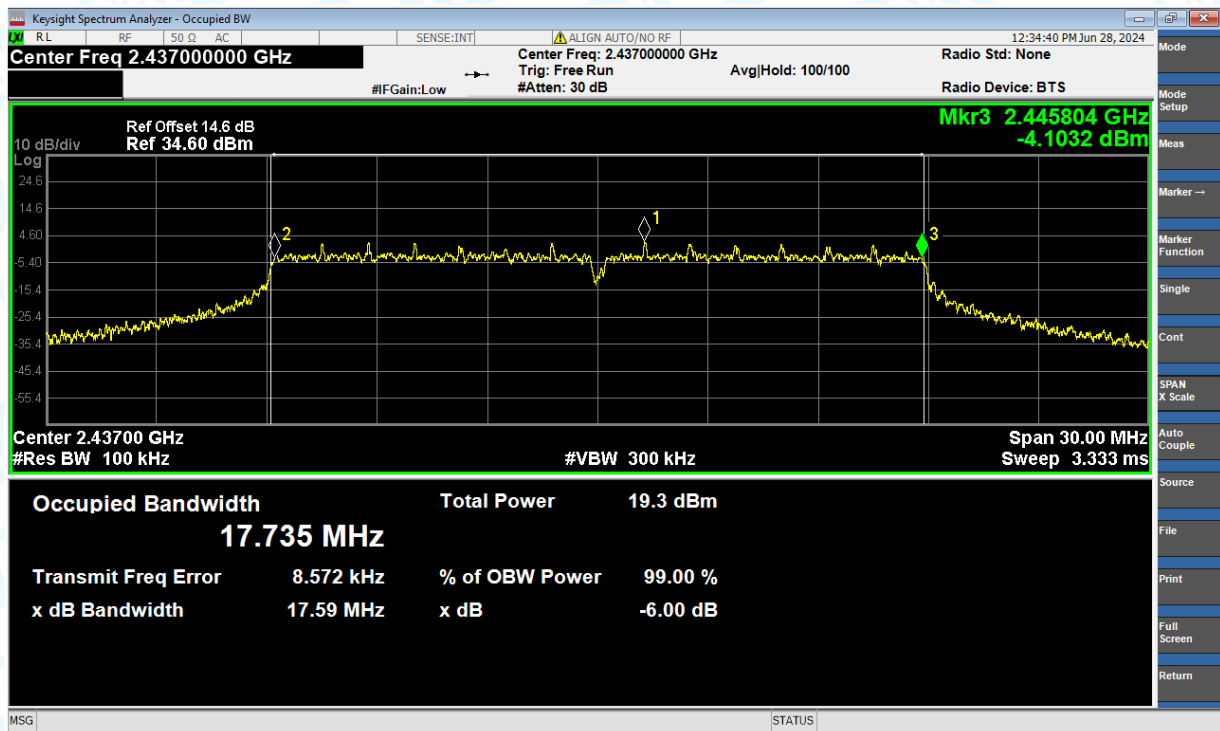
-6dB Bandwidth NVNT g 2462MHz Ant1



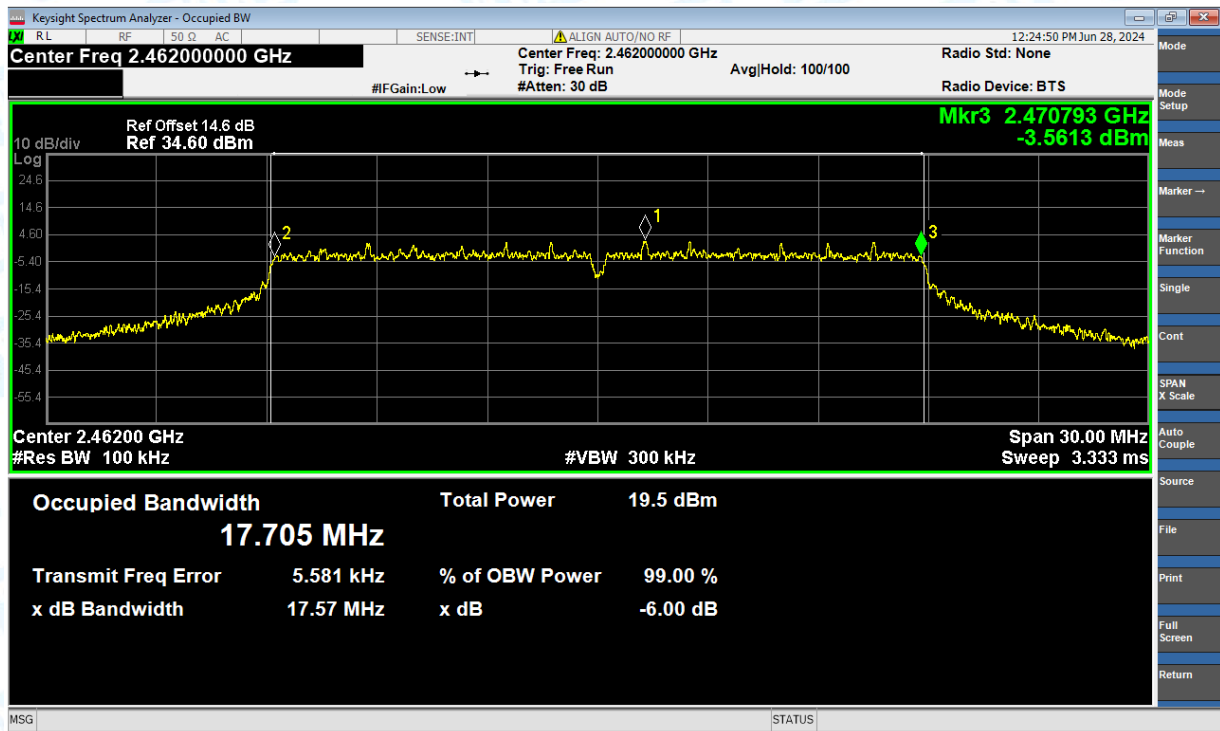
-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



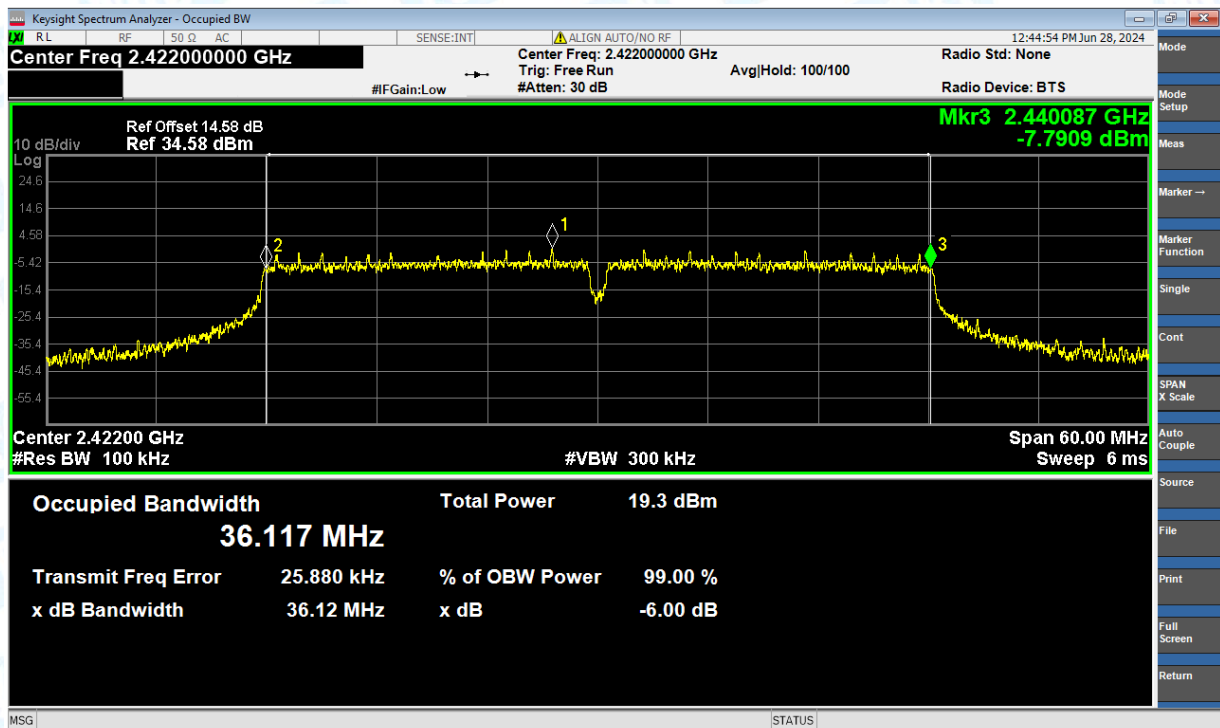
-6dB Bandwidth NVNT n(HT20) 2437MHz Ant1



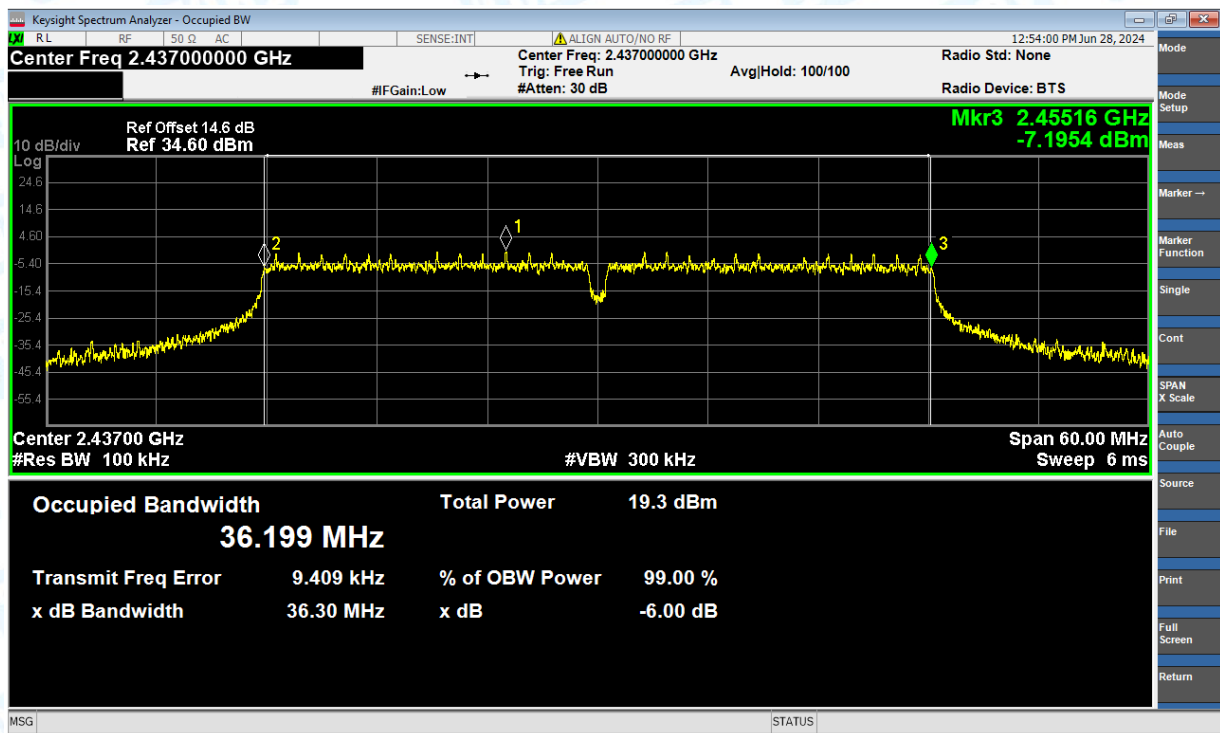
-6dB Bandwidth NVNT n(HT20) 2462MHz Ant1



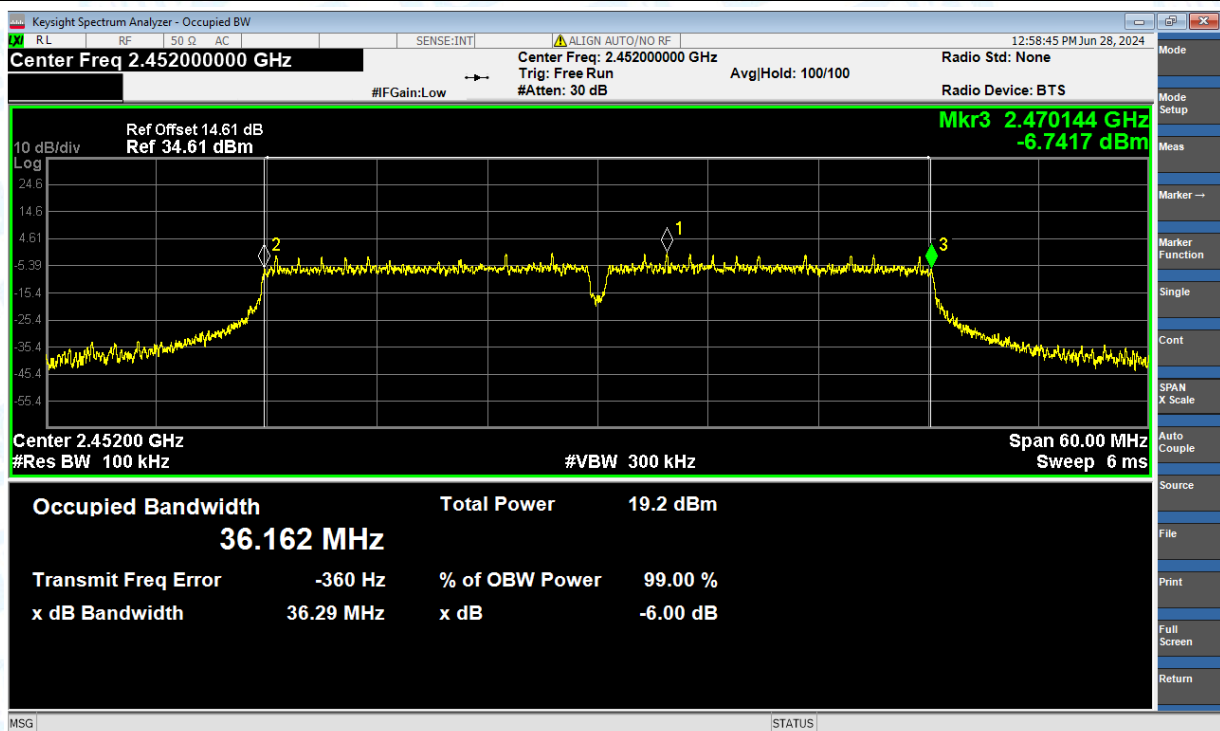
-6dB Bandwidth NVNT n(HT40) 2422MHz Ant1



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



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

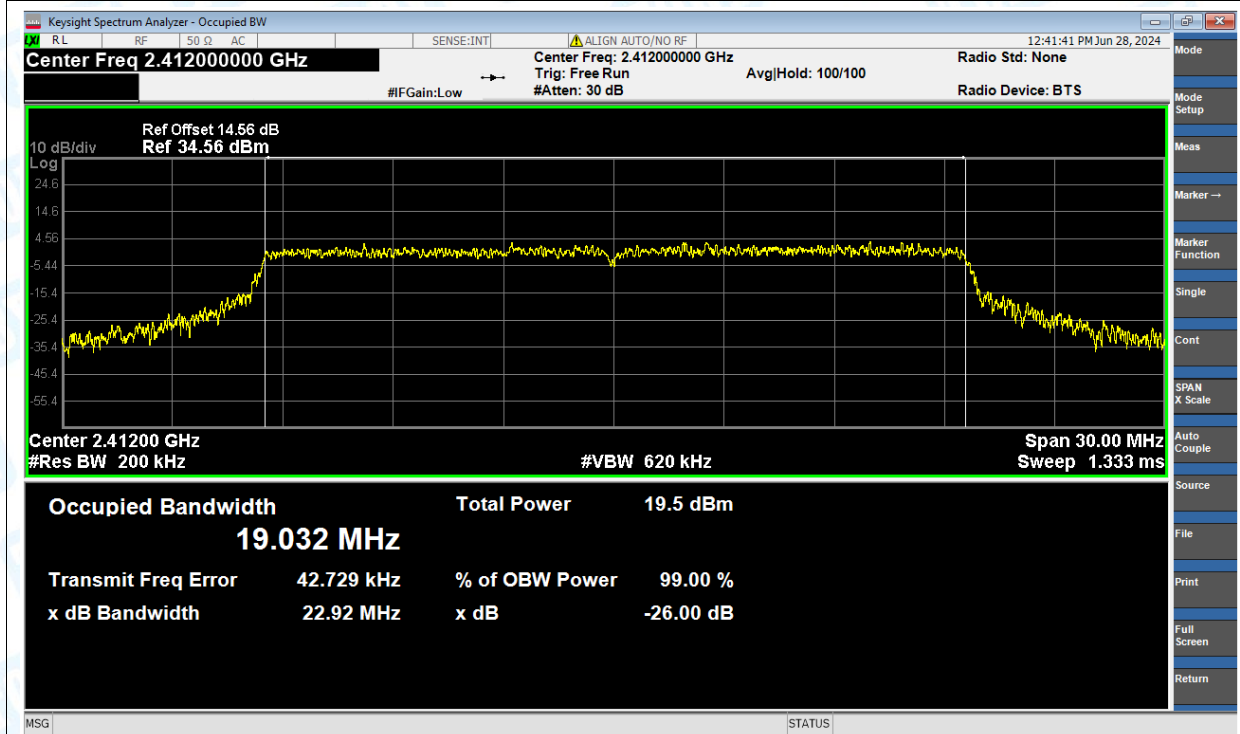


4.Occupied Channel Bandwidth

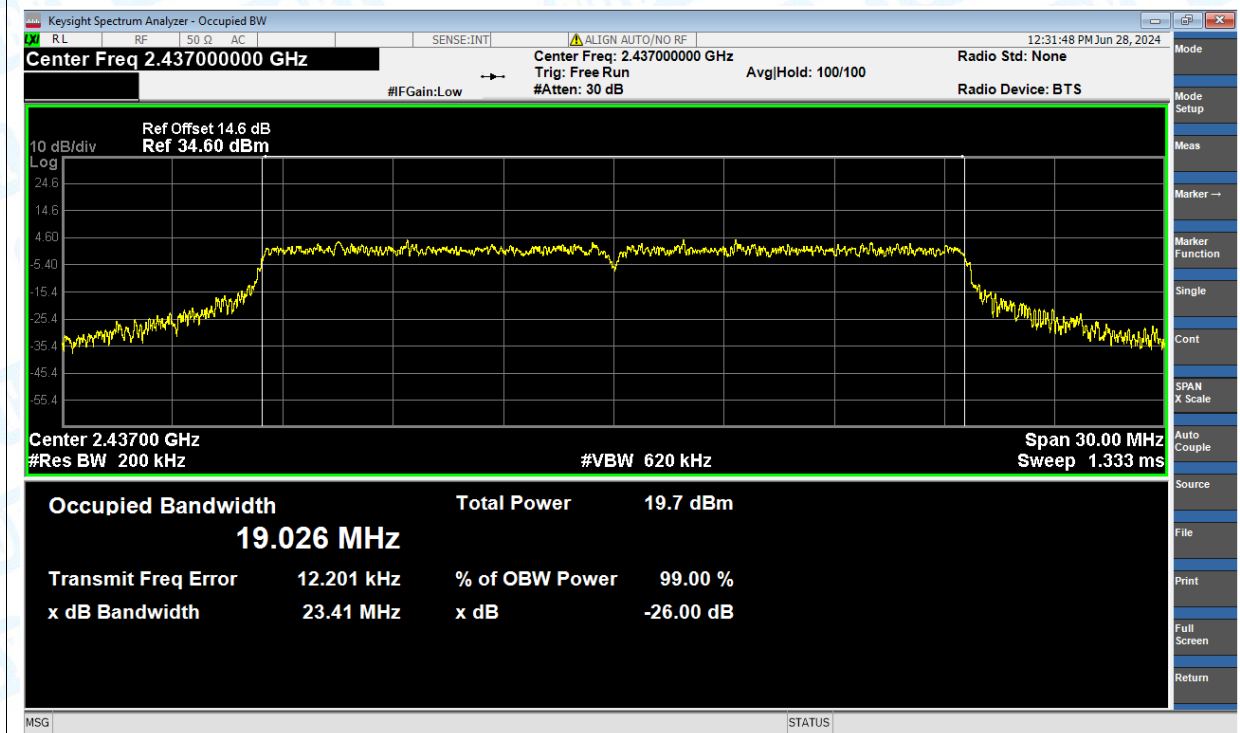
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	ax(VHT20)	2412	Ant1	19.032
NVNT	ax(VHT20)	2437	Ant1	19.026
NVNT	ax(VHT20)	2462	Ant1	19.009
NVNT	ax(VHT40)	2422	Ant1	37.806
NVNT	ax(VHT40)	2437	Ant1	37.876
NVNT	ax(VHT40)	2452	Ant1	37.919
NVNT	b	2412	Ant1	14.779
NVNT	b	2437	Ant1	14.818
NVNT	b	2462	Ant1	14.733
NVNT	g	2412	Ant1	16.604
NVNT	g	2437	Ant1	16.619
NVNT	g	2462	Ant1	16.63
NVNT	n(HT20)	2412	Ant1	17.871
NVNT	n(HT20)	2437	Ant1	17.908
NVNT	n(HT20)	2462	Ant1	17.881
NVNT	n(HT40)	2422	Ant1	36.297
NVNT	n(HT40)	2437	Ant1	36.396
NVNT	n(HT40)	2452	Ant1	36.405

Test Graphs

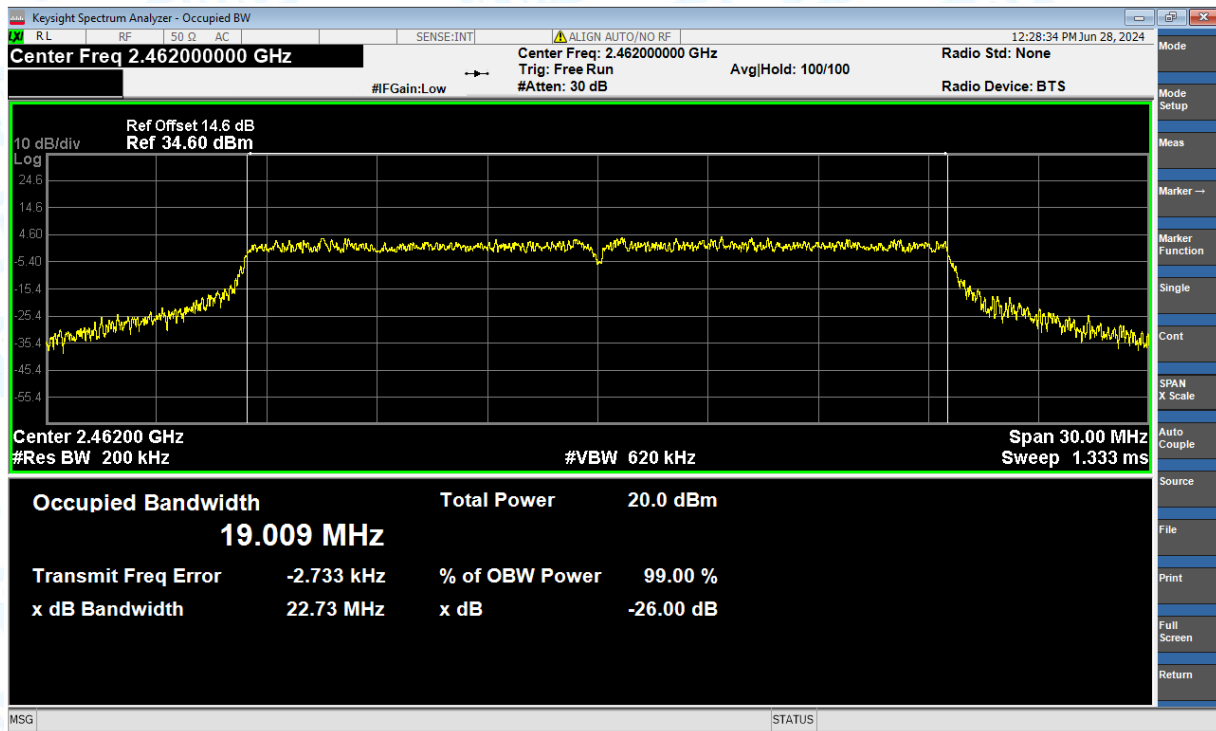
OBW NVNT ax(VHT20) 2412MHz Ant1



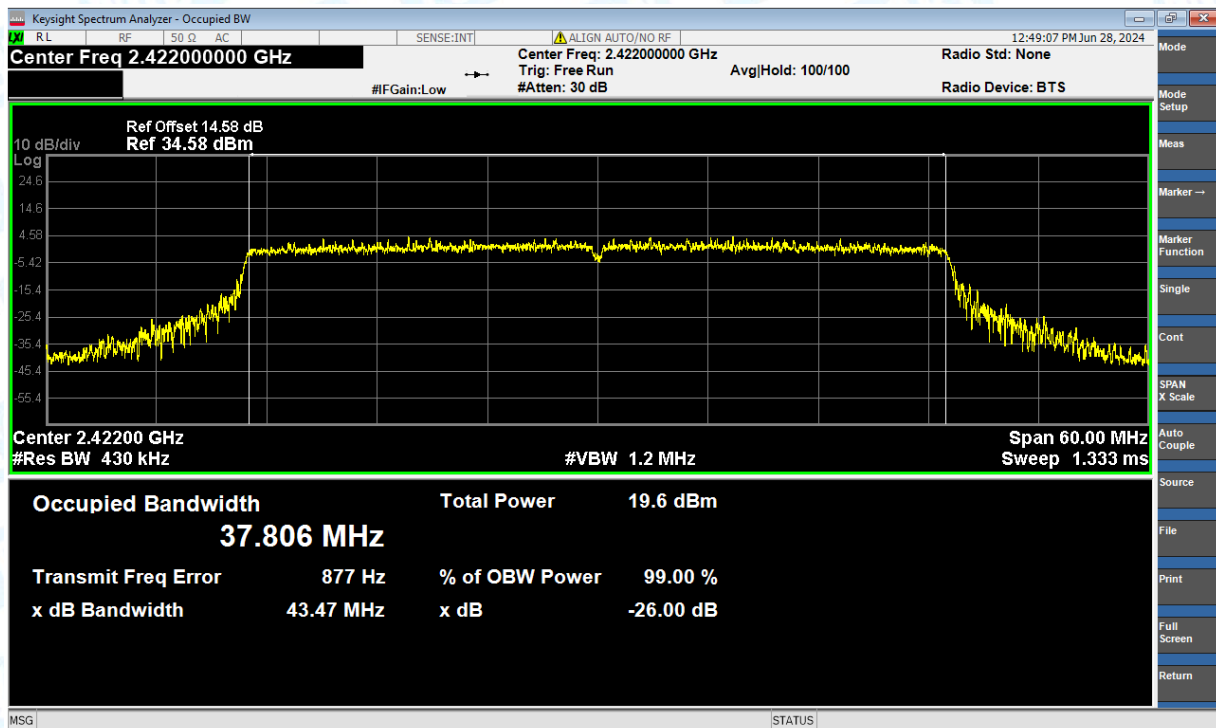
OBW NVNT ax(VHT20) 2437MHz Ant1



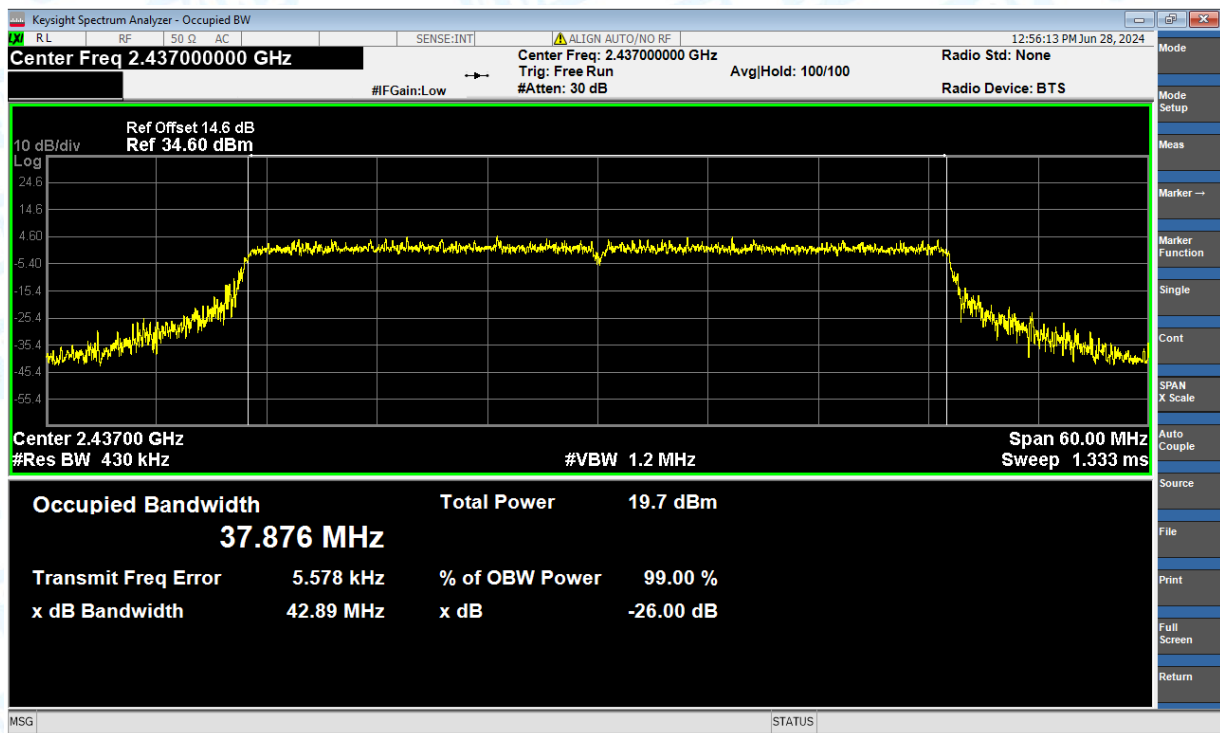
OBW NVNT ax(VHT20) 2462MHz Ant1



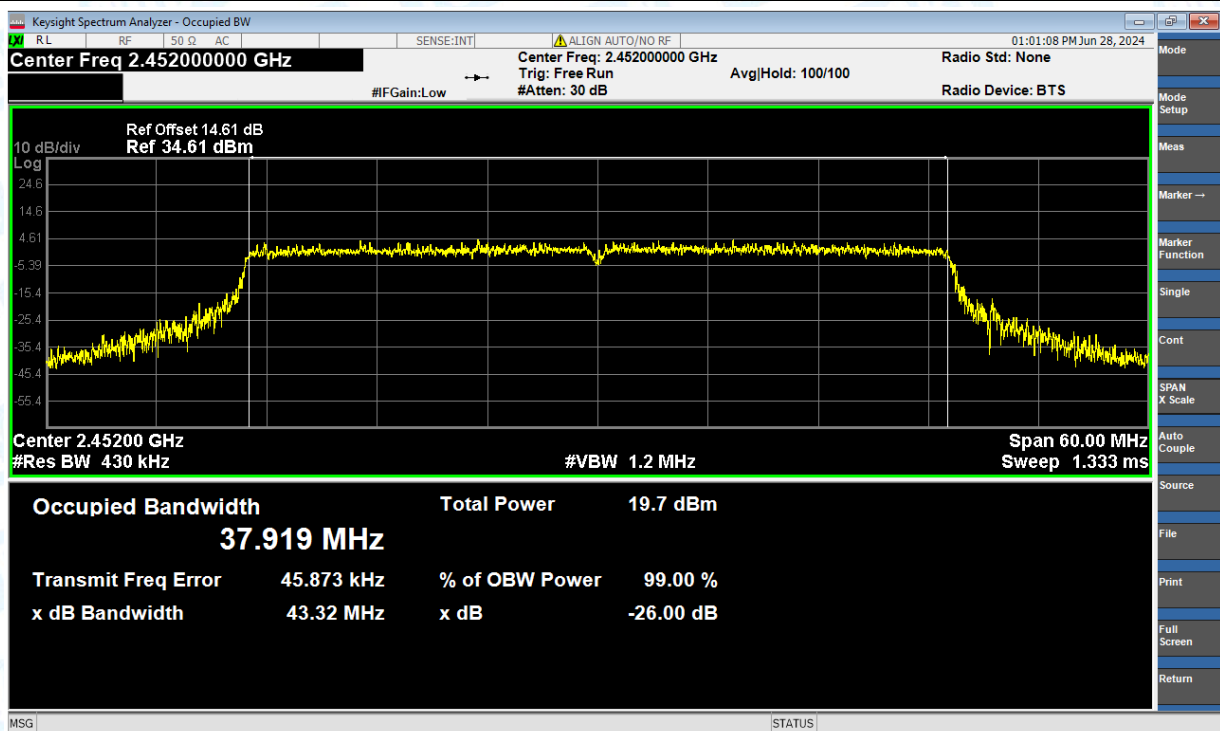
OBW NVNT ax(VHT40) 2422MHz Ant1



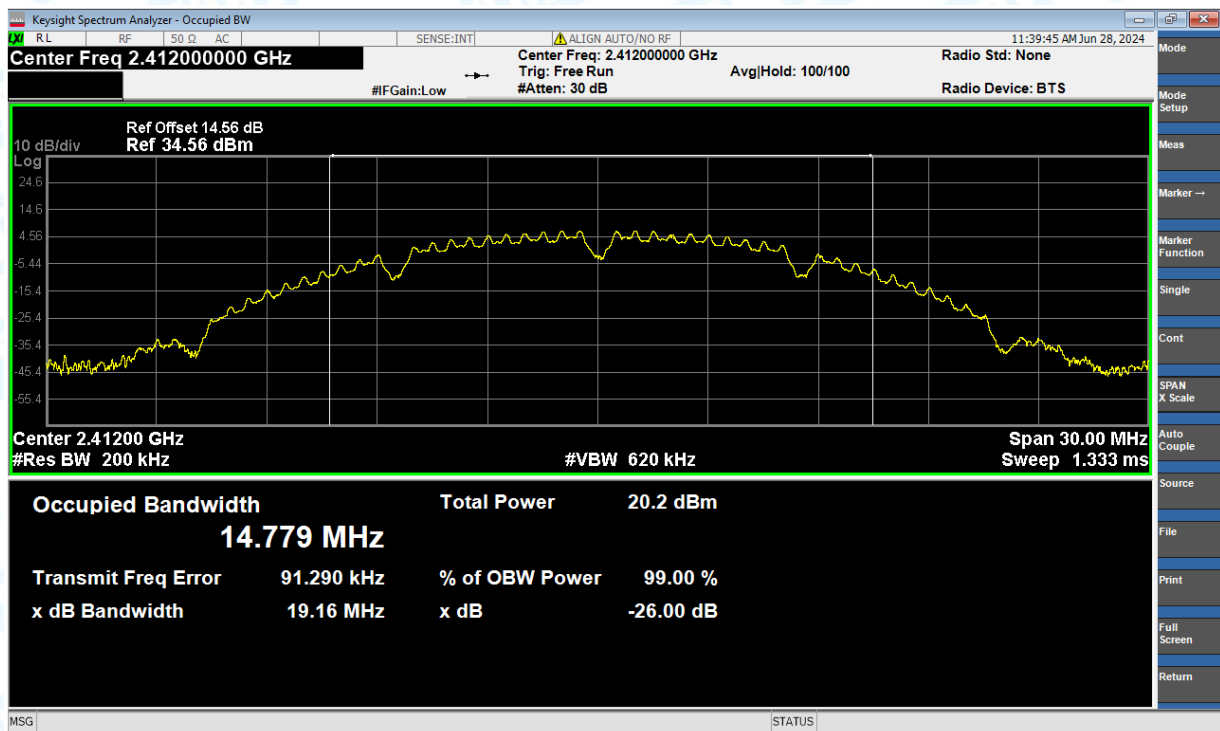
OBW NVNT ax(VHT40) 2437MHz Ant1



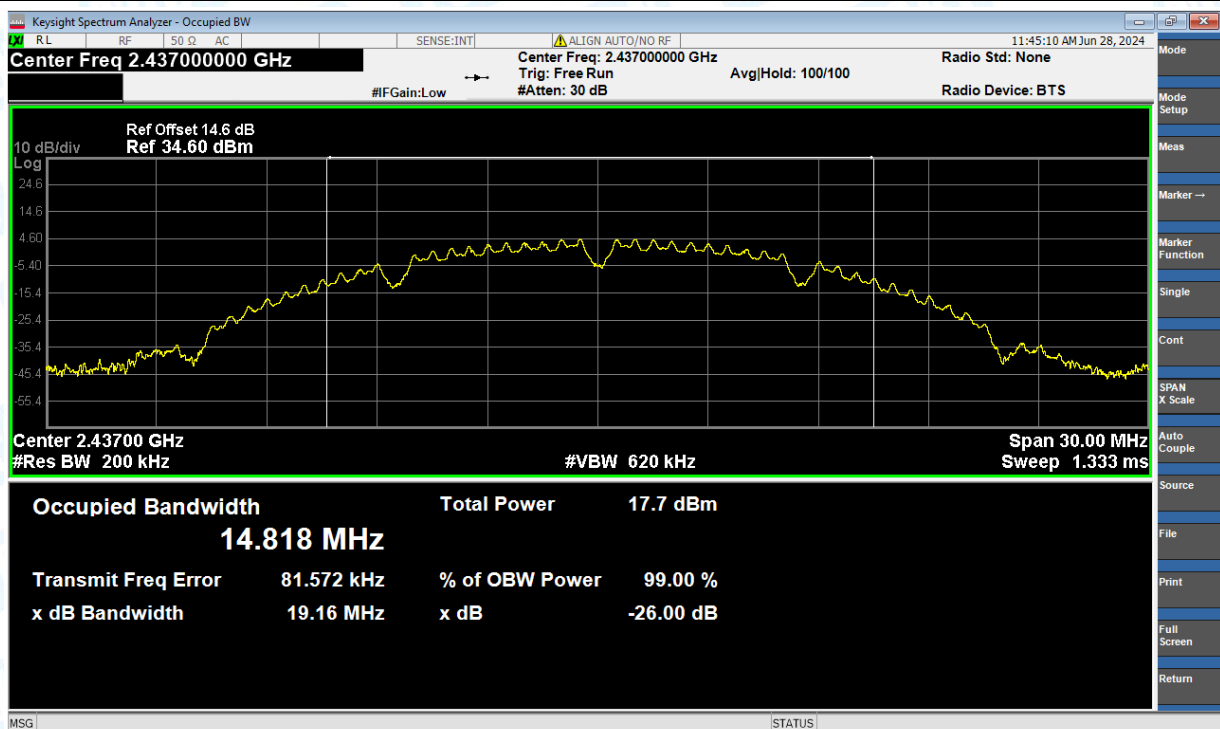
OBW NVNT ax(VHT40) 2452MHz Ant1



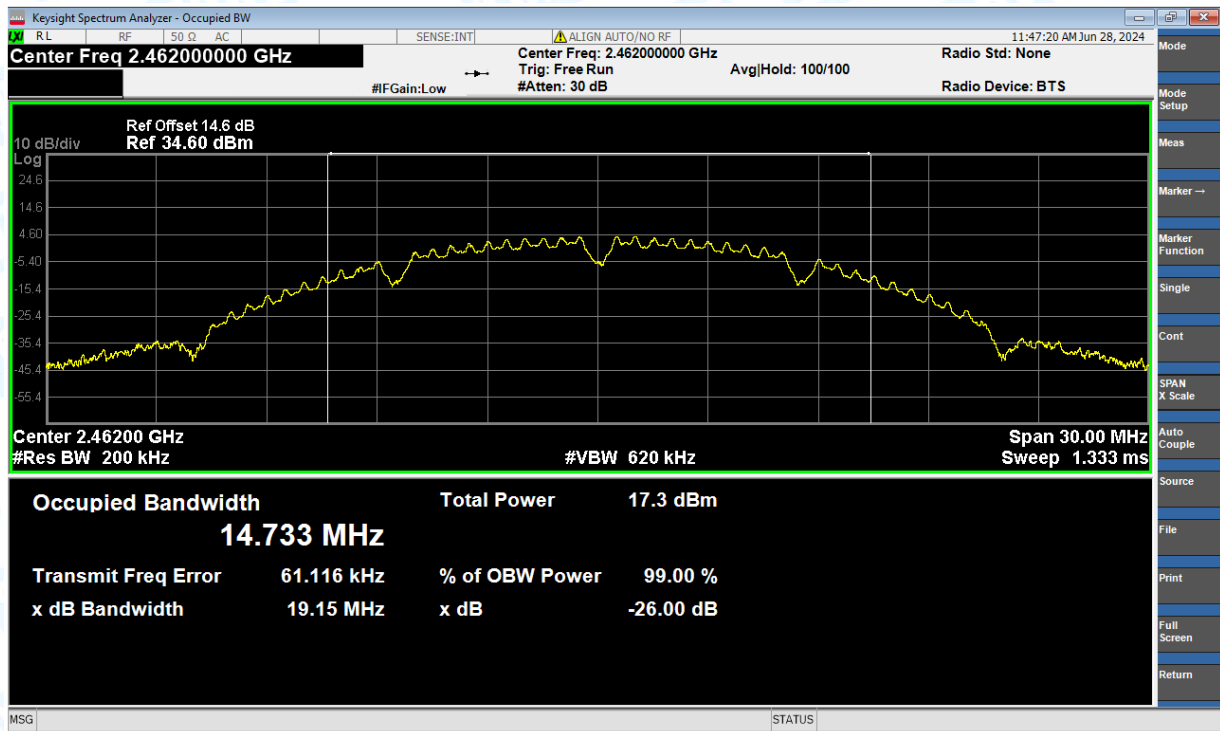
OBW NVNT b 2412MHz Ant1



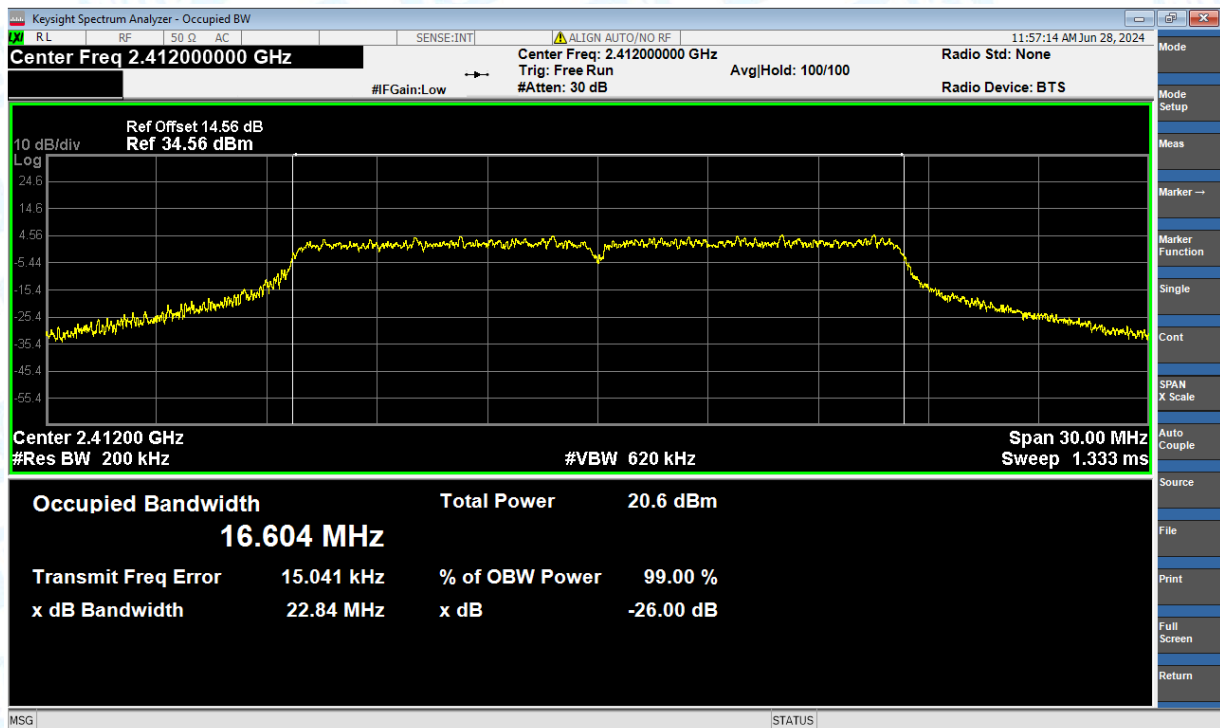
OBW NVNT b 2437MHz Ant1



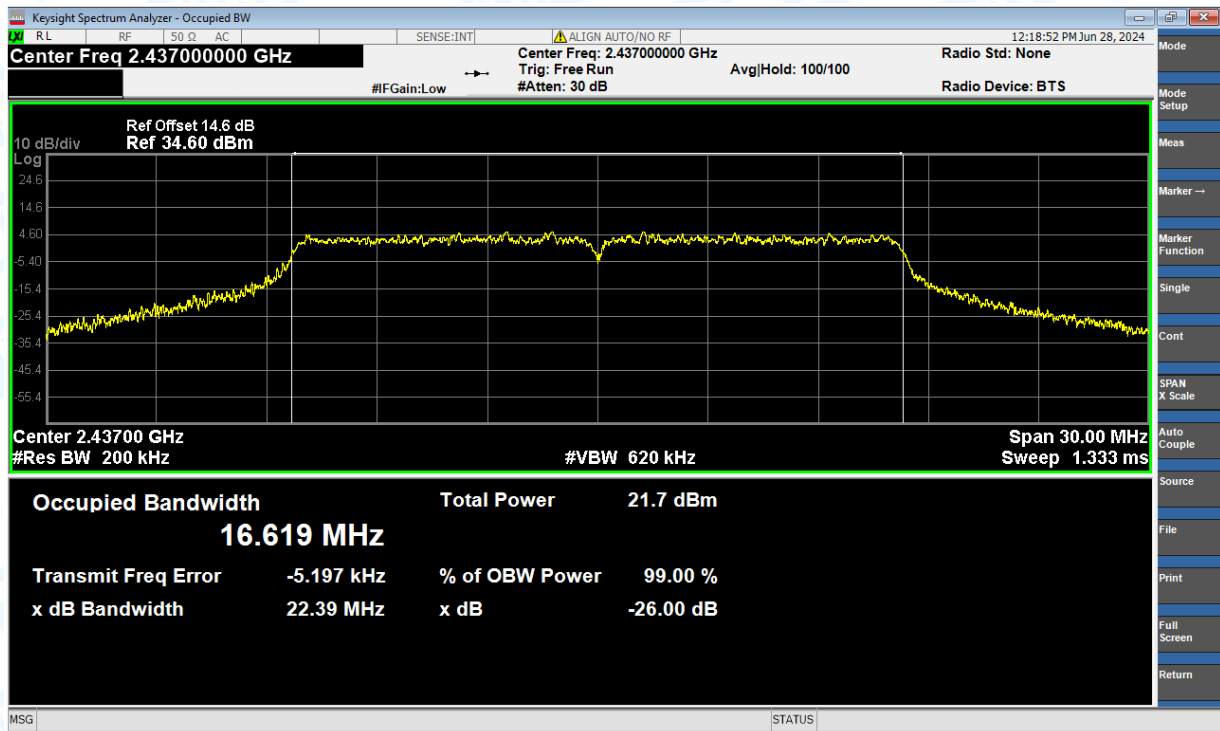
OBW NVNT b 2462MHz Ant1



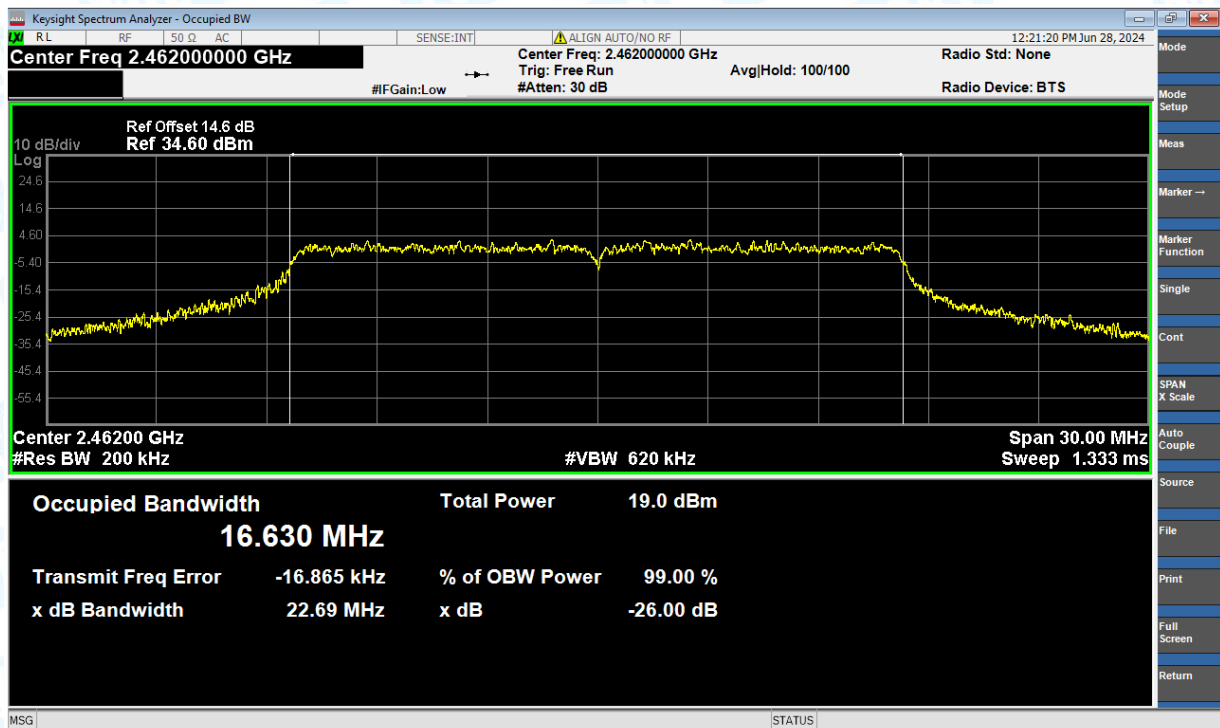
OBW NVNT g 2412MHz Ant1



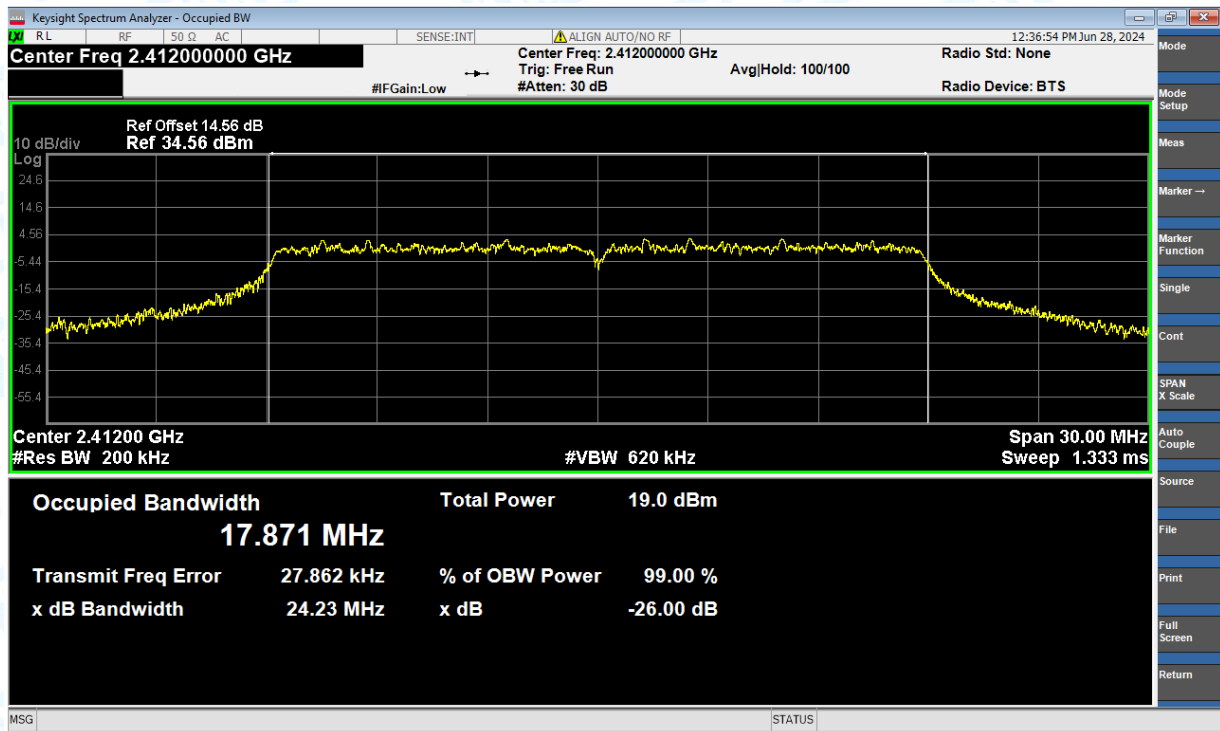
OBW NVNT g 2437MHz Ant1



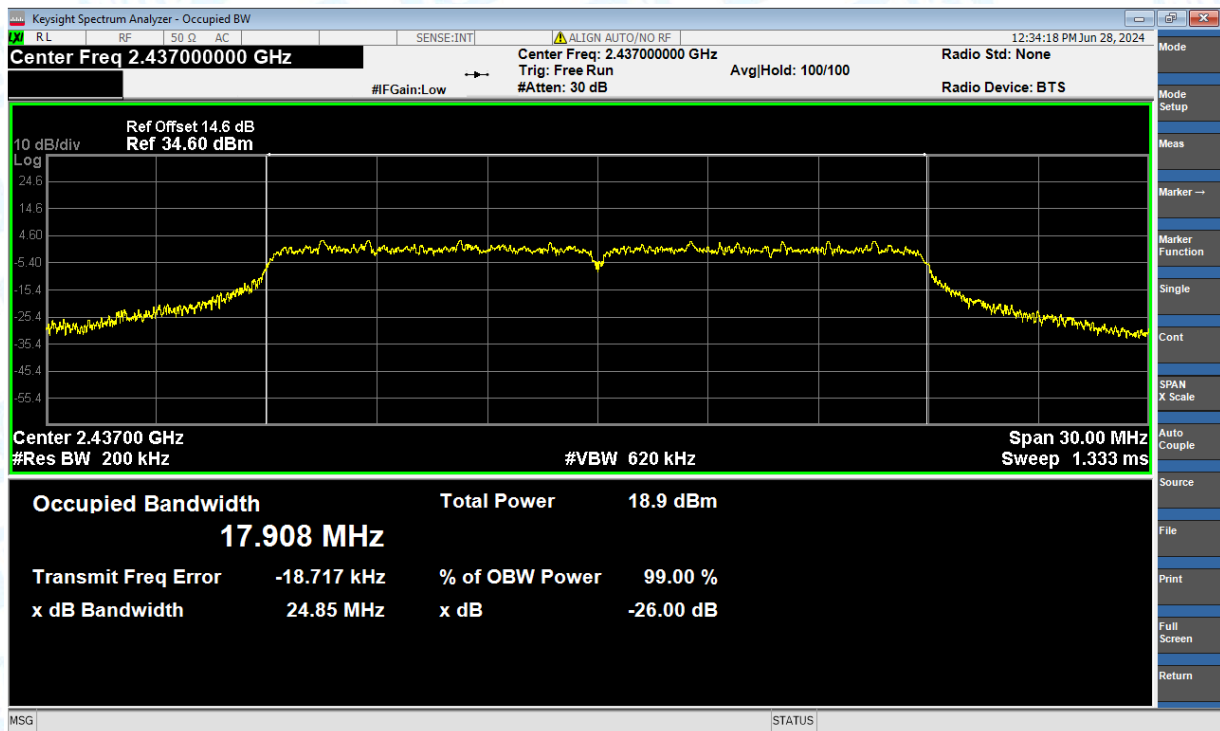
OBW NVNT g 2462MHz Ant1



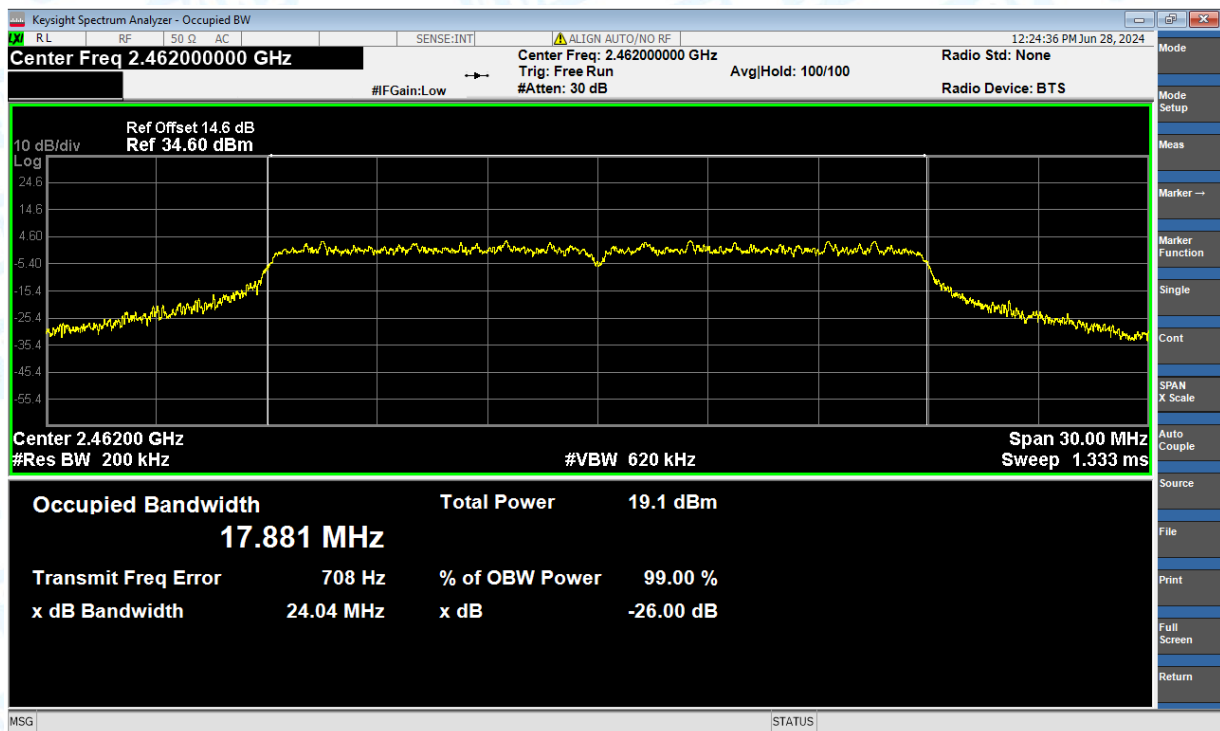
OBW NVNT n(HT20) 2412MHz Ant1



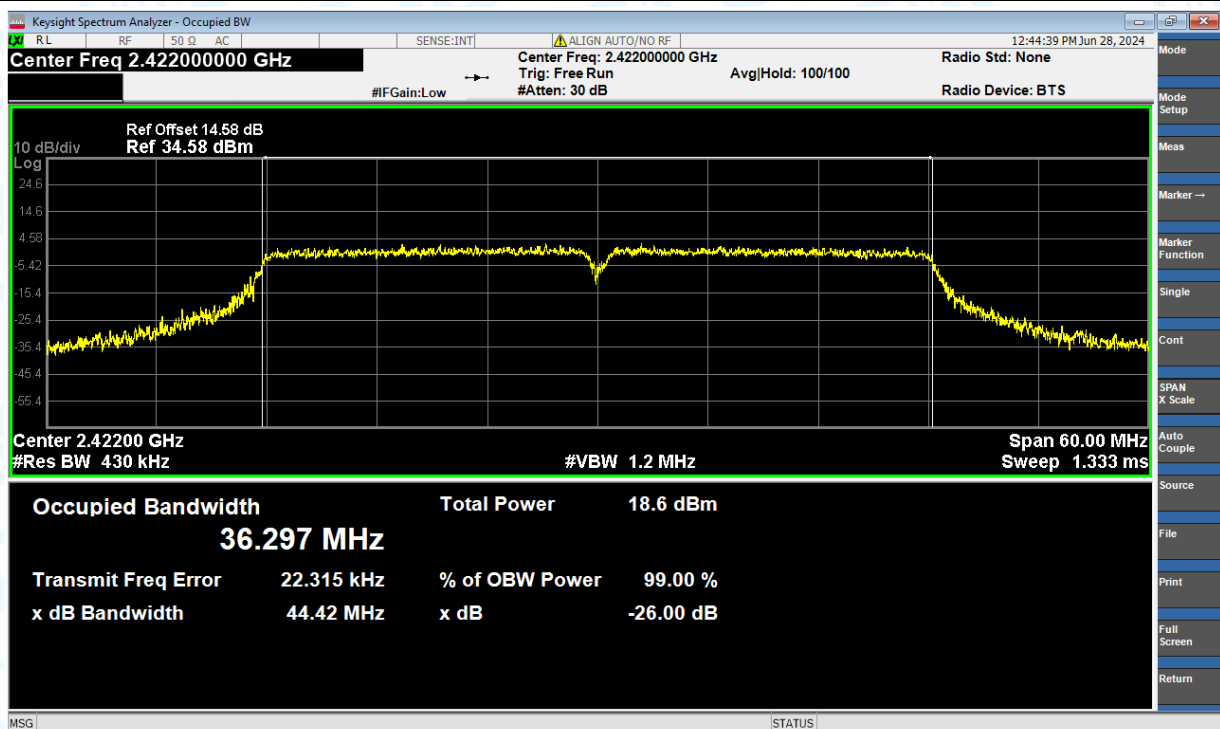
OBW NVNT n(HT20) 2437MHz Ant1



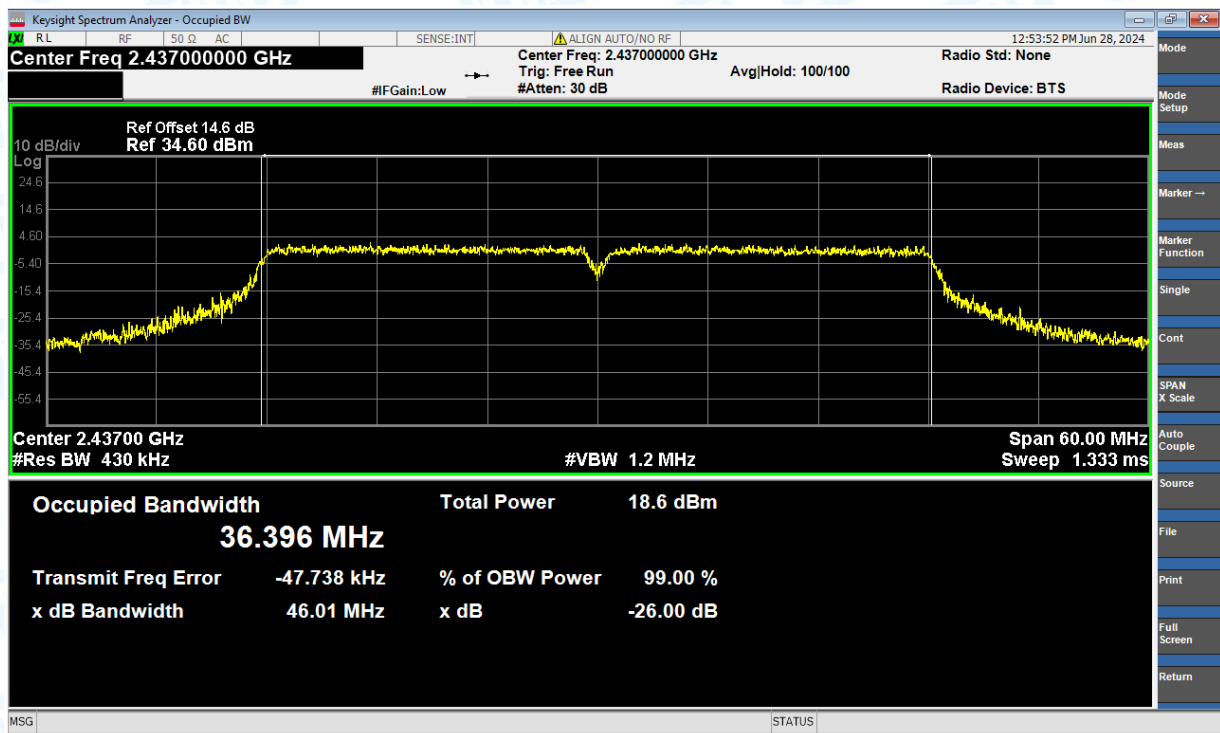
OBW NVNT n(HT20) 2462MHz Ant1



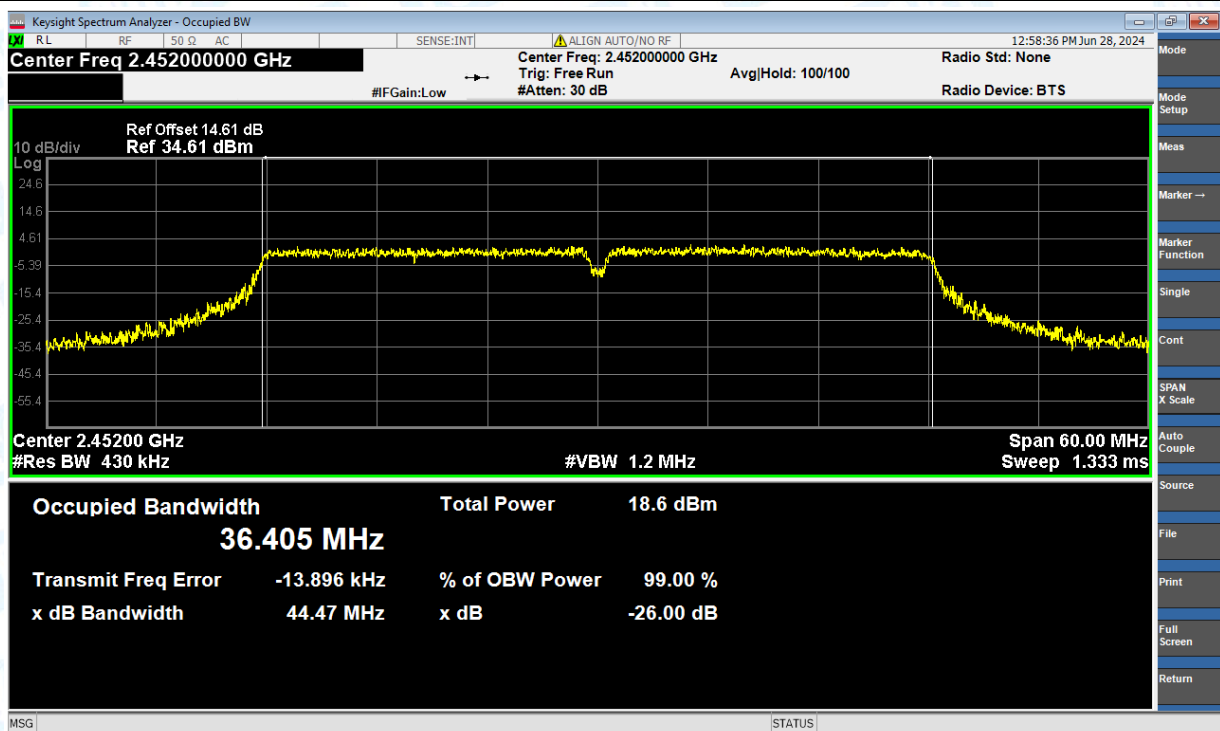
OBW NVNT n(HT40) 2422MHz Ant1



OBW NVNT n(HT40) 2437MHz Ant1



OBW NVNT n(HT40) 2452MHz Ant1



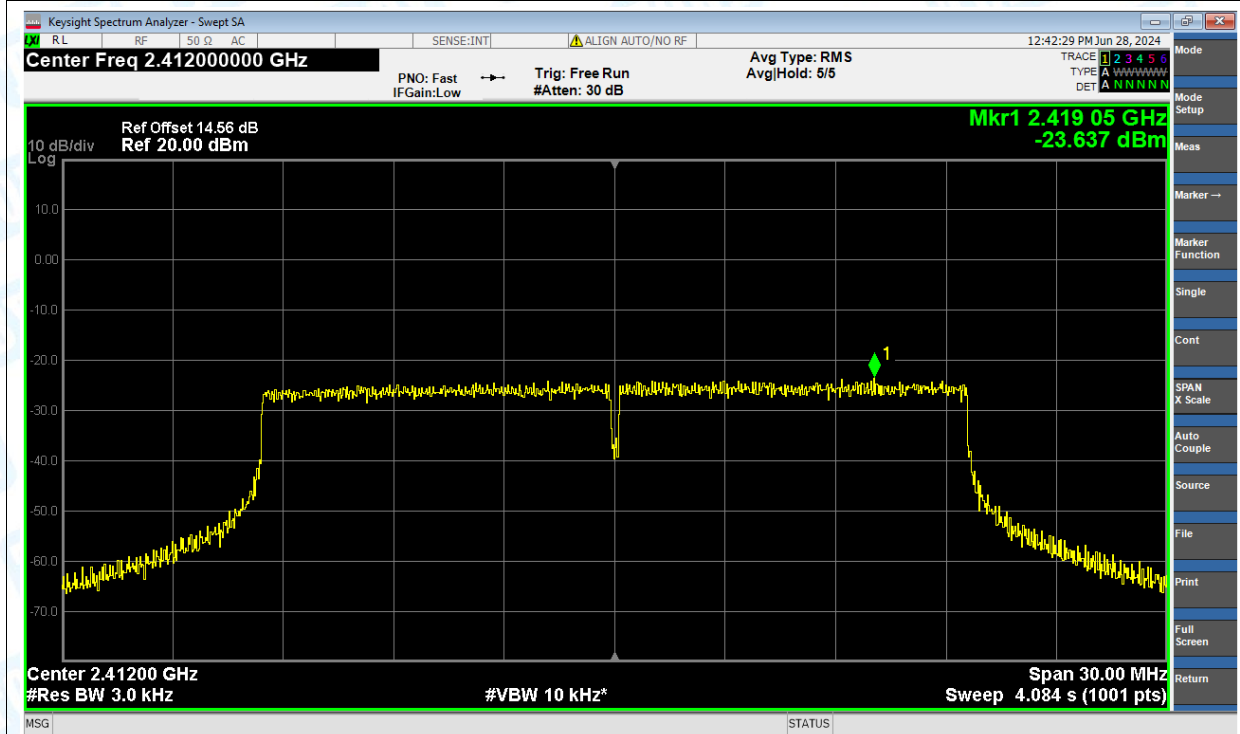
5. Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	ax(VHT20)	2412	Ant1	-23.637	8	Pass
NVNT	ax(VHT20)	2437	Ant1	-23.838	8	Pass
NVNT	ax(VHT20)	2462	Ant1	-23.347	8	Pass
NVNT	ax(VHT40)	2422	Ant1	-28.777	8	Pass
NVNT	ax(VHT40)	2437	Ant1	-28.612	8	Pass
NVNT	ax(VHT40)	2452	Ant1	-28.416	8	Pass
NVNT	b	2412	Ant1	-20.063	8	Pass
NVNT	b	2437	Ant1	-19.757	8	Pass
NVNT	b	2462	Ant1	-20.44	8	Pass
NVNT	g	2412	Ant1	-20.722	8	Pass
NVNT	g	2437	Ant1	-20.012	8	Pass
NVNT	g	2462	Ant1	-22.86	8	Pass
NVNT	n(HT20)	2412	Ant1	-22.157	8	Pass
NVNT	n(HT20)	2437	Ant1	-22.529	8	Pass
NVNT	n(HT20)	2462	Ant1	-22.545	8	Pass
NVNT	n(HT40)	2422	Ant1	-25.995	8	Pass
NVNT	n(HT40)	2437	Ant1	-26.771	8	Pass
NVNT	n(HT40)	2452	Ant1	-26.609	8	Pass

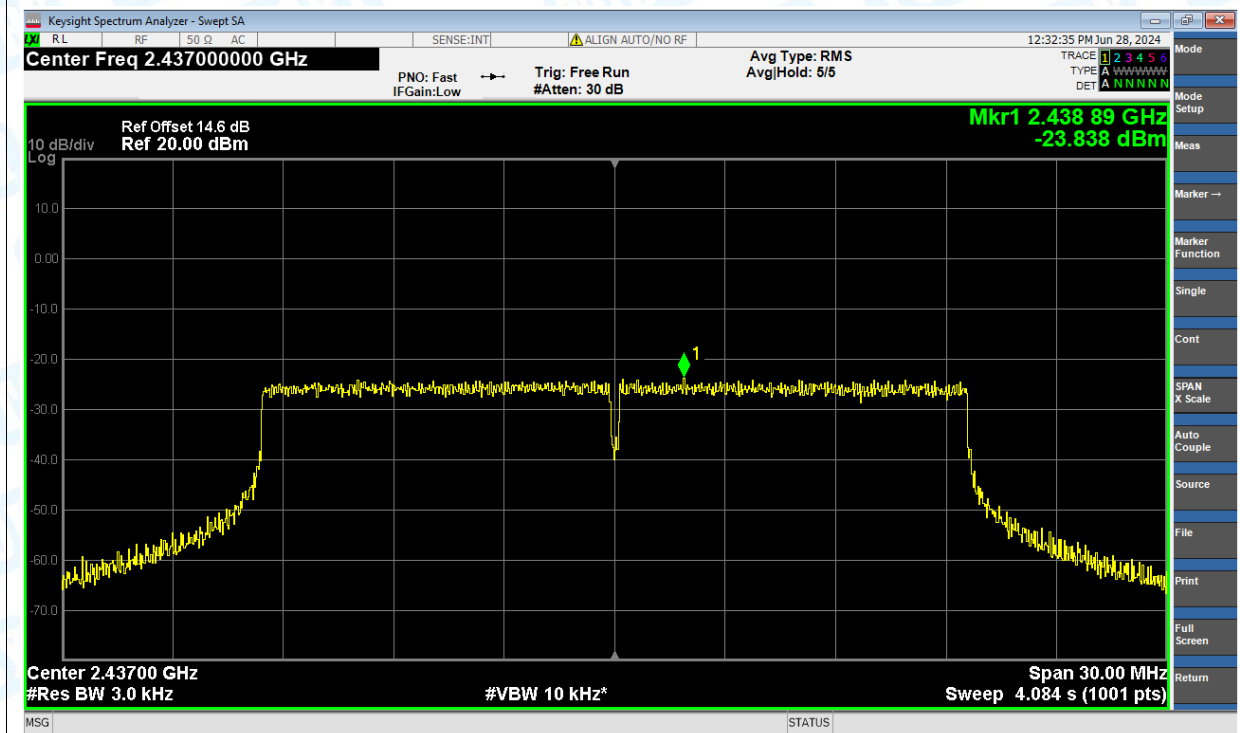
Note: The duty factor has been compensated into the result.

Test Graphs

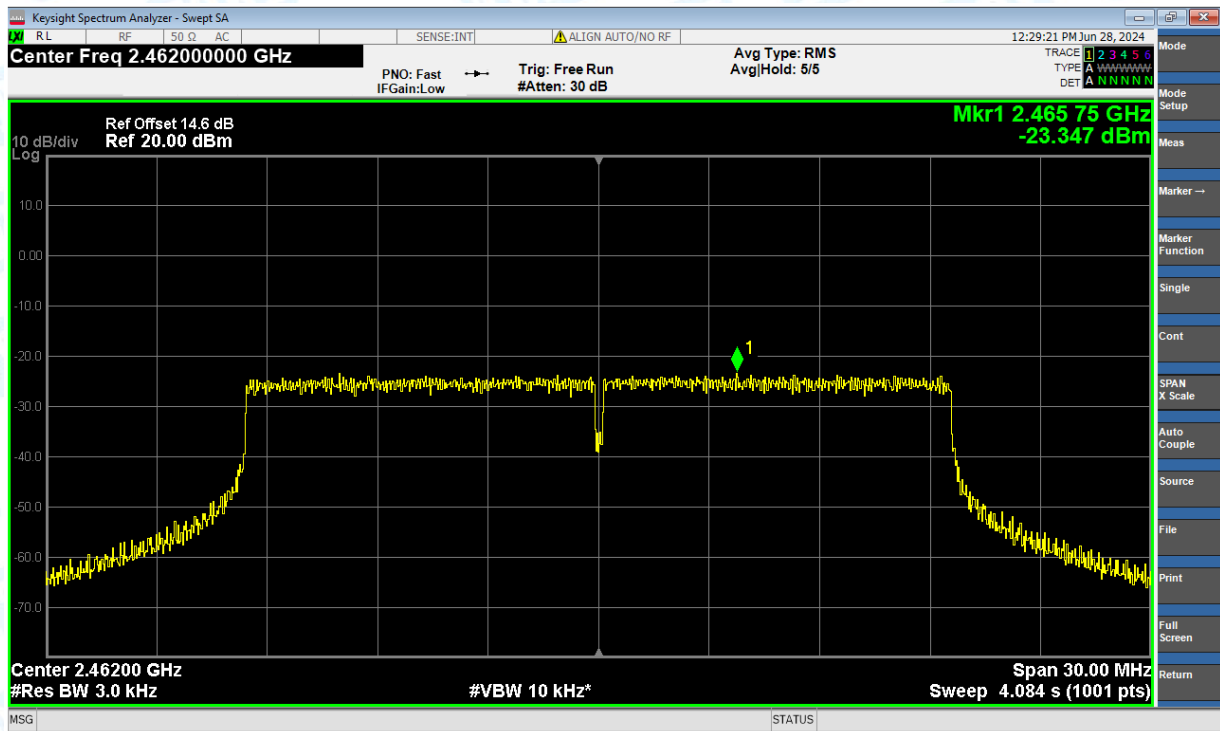
PSD NVNT ax(VHT20) 2412MHz Ant1



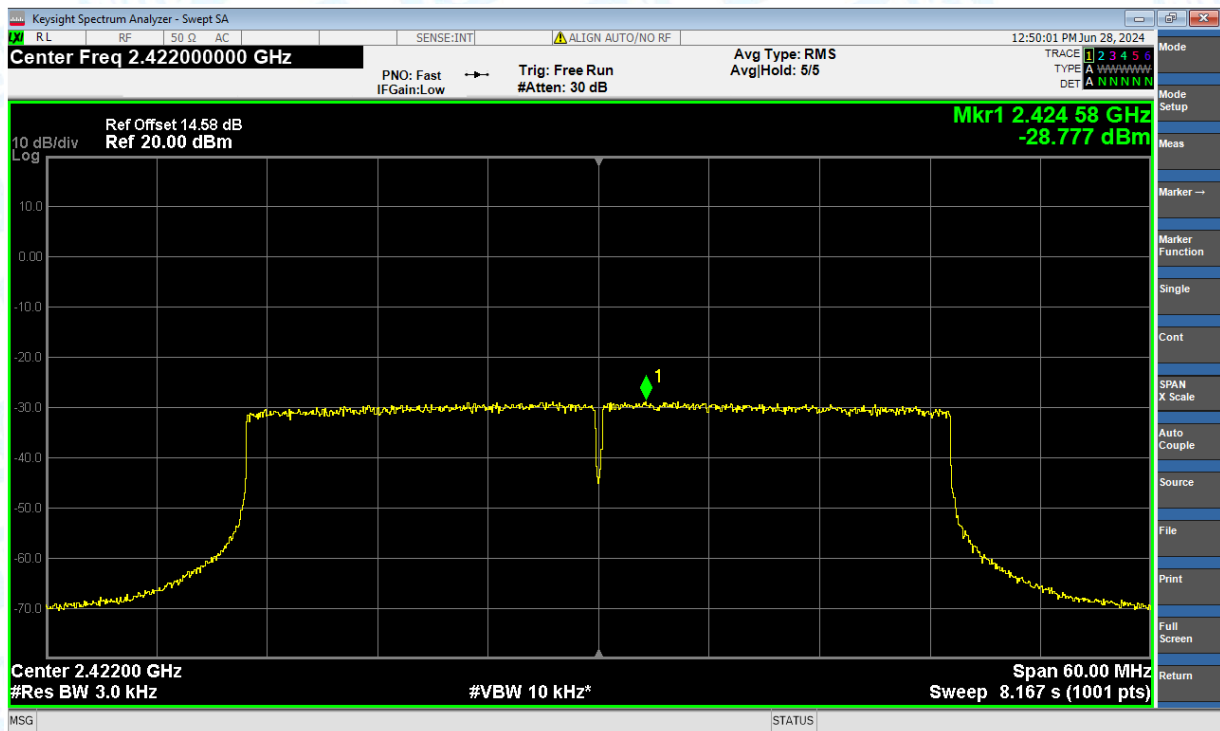
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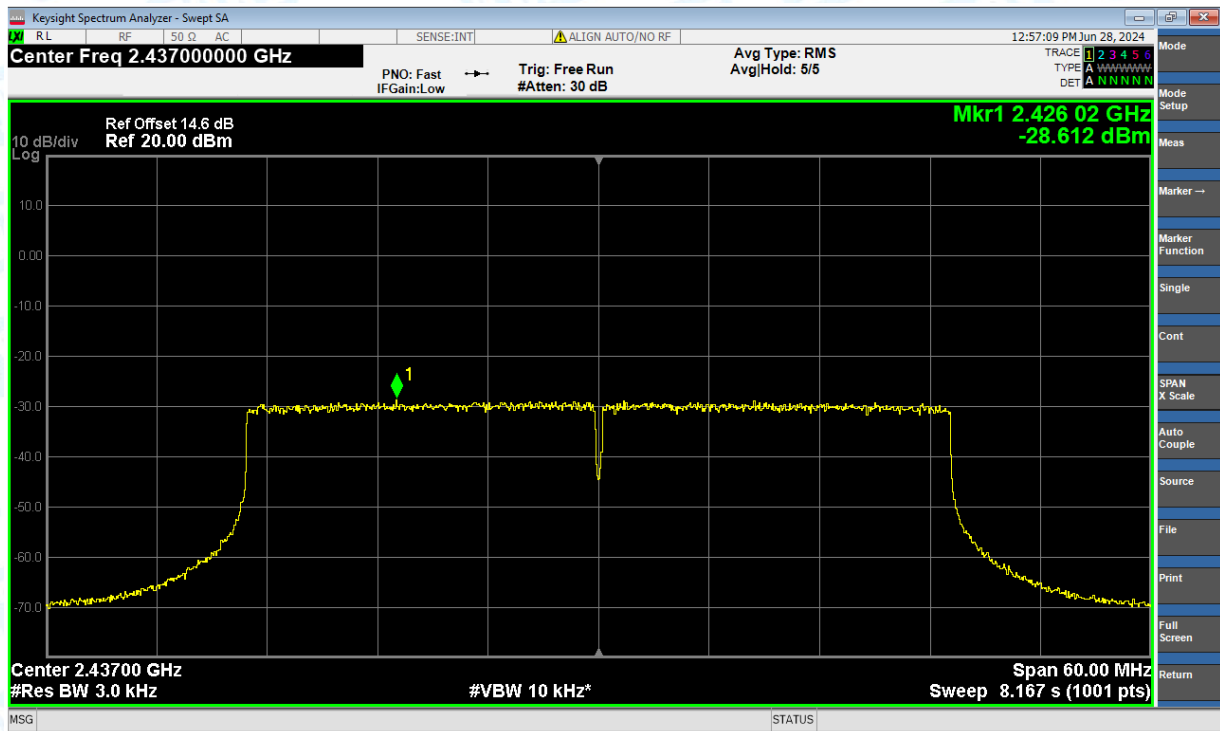
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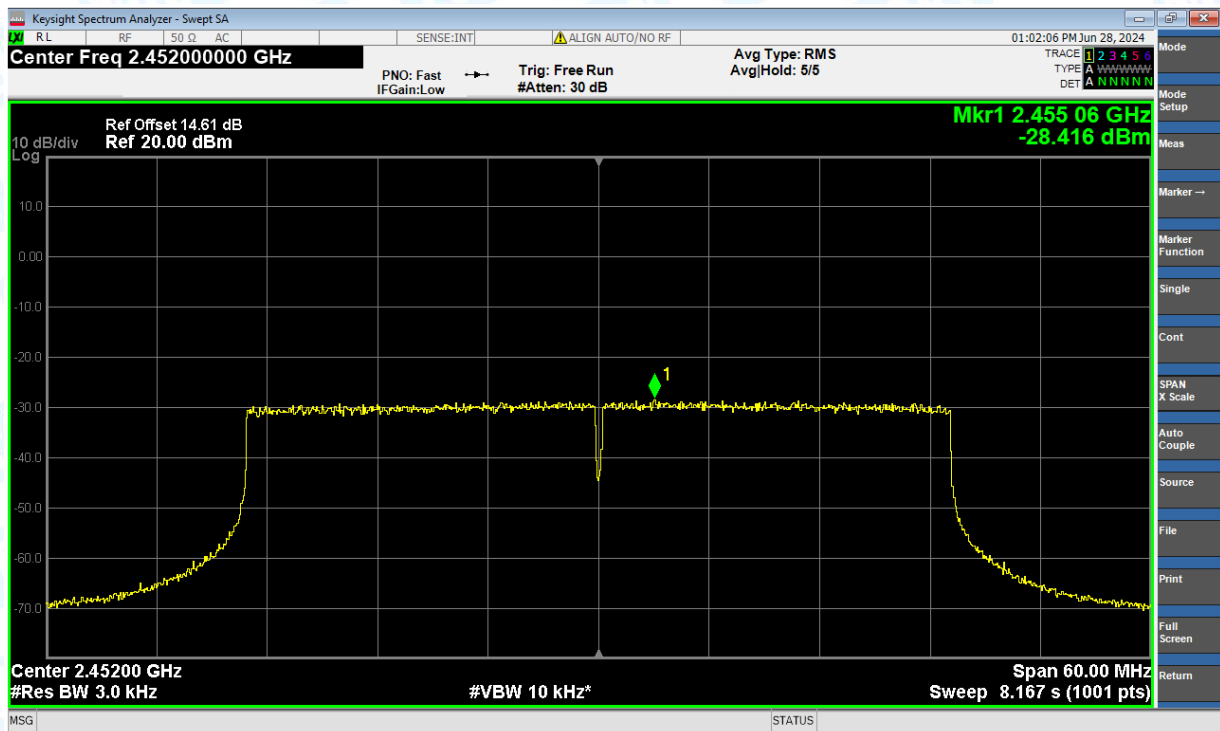
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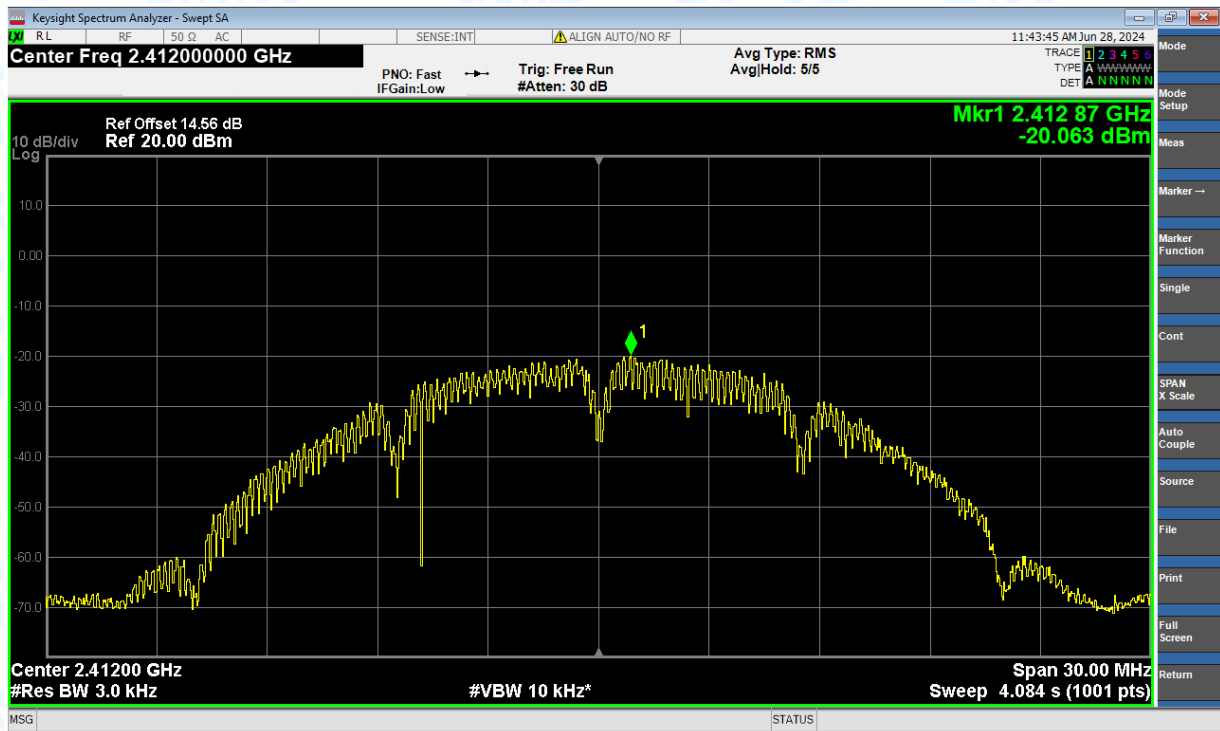
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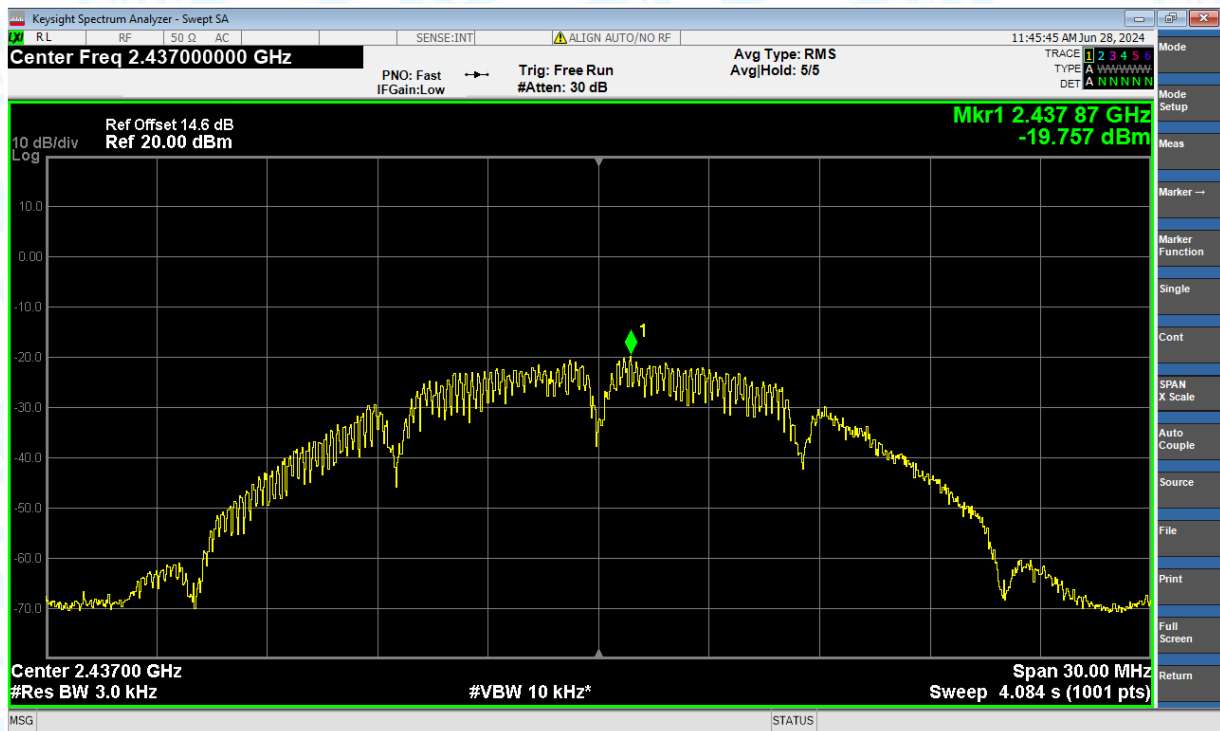
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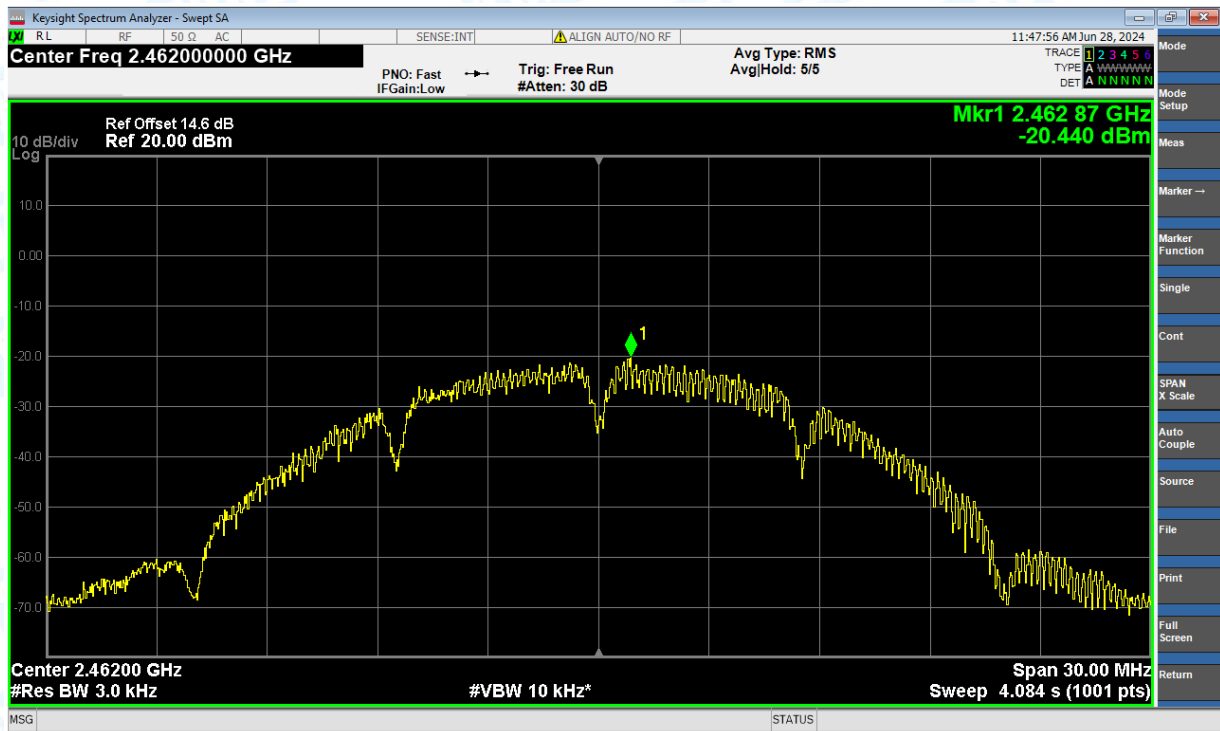
PSD NVNT b 2412MHz Ant1



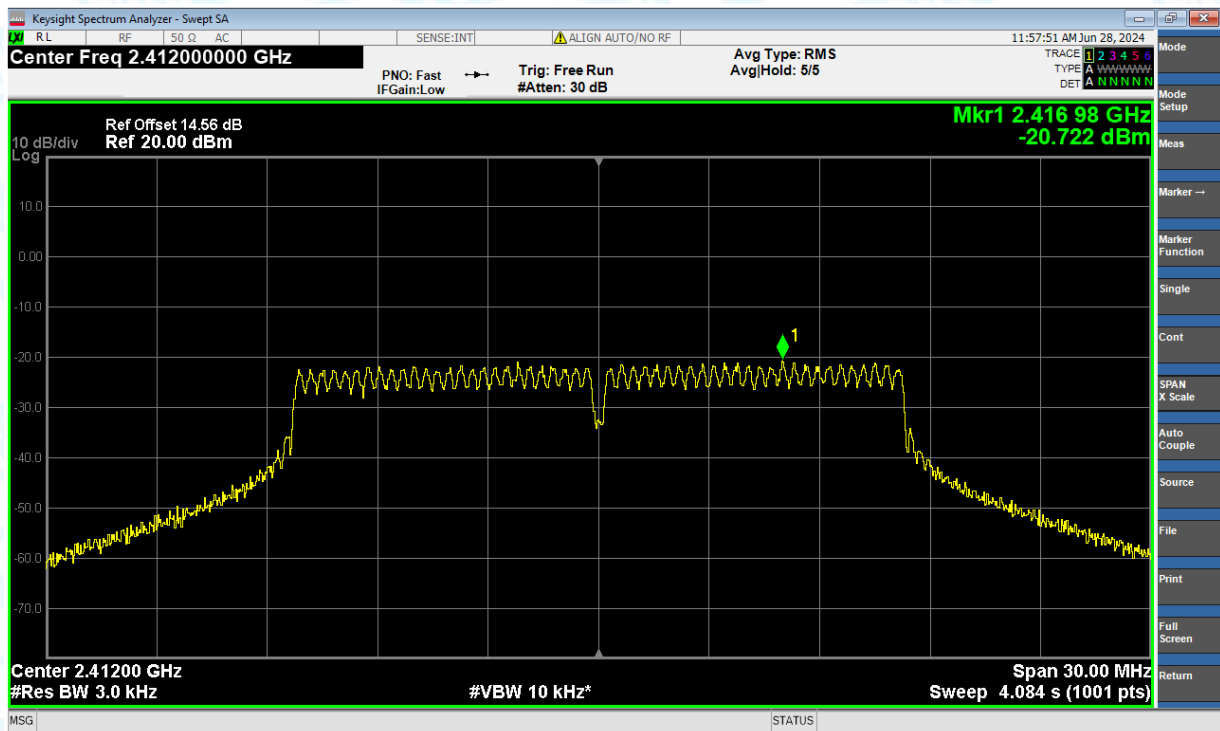
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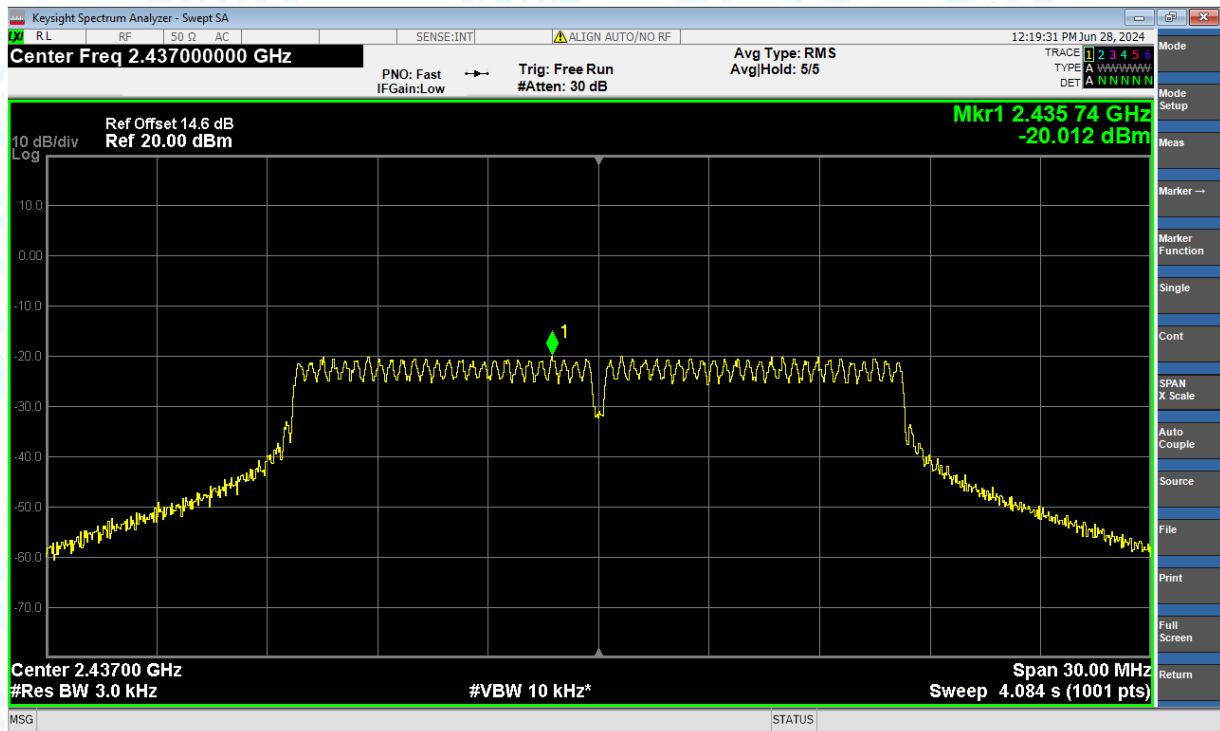
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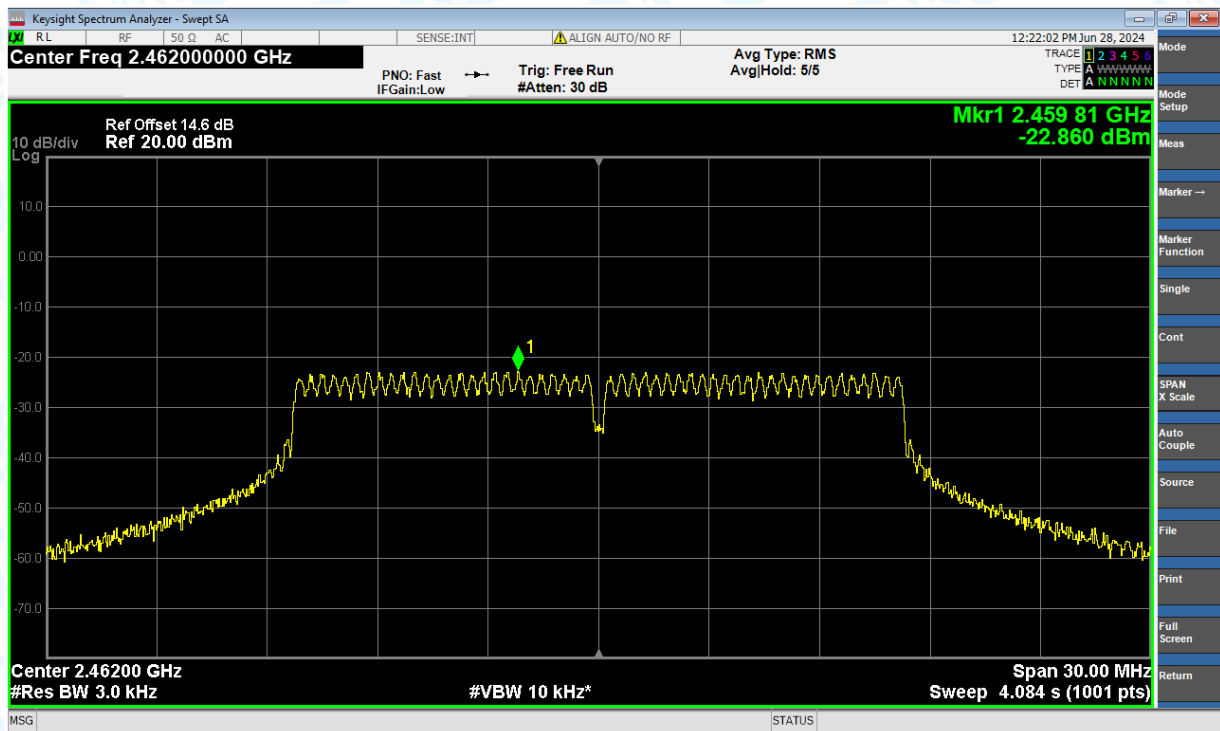
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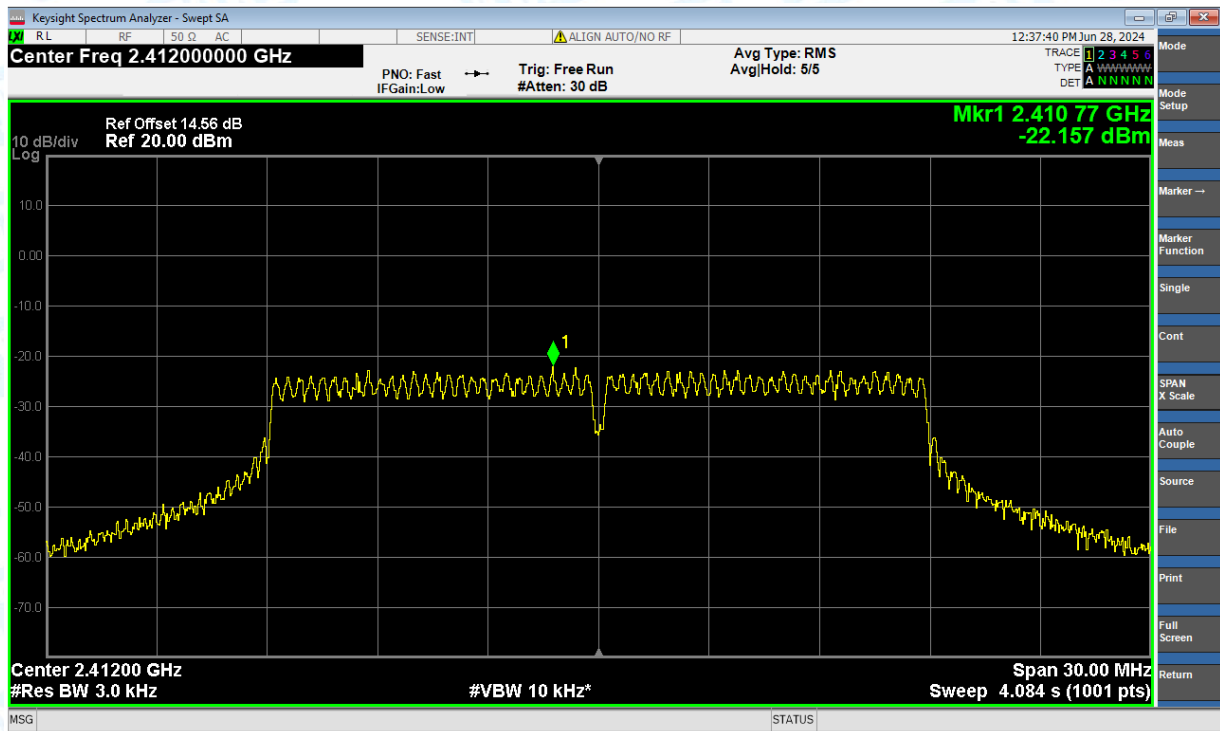
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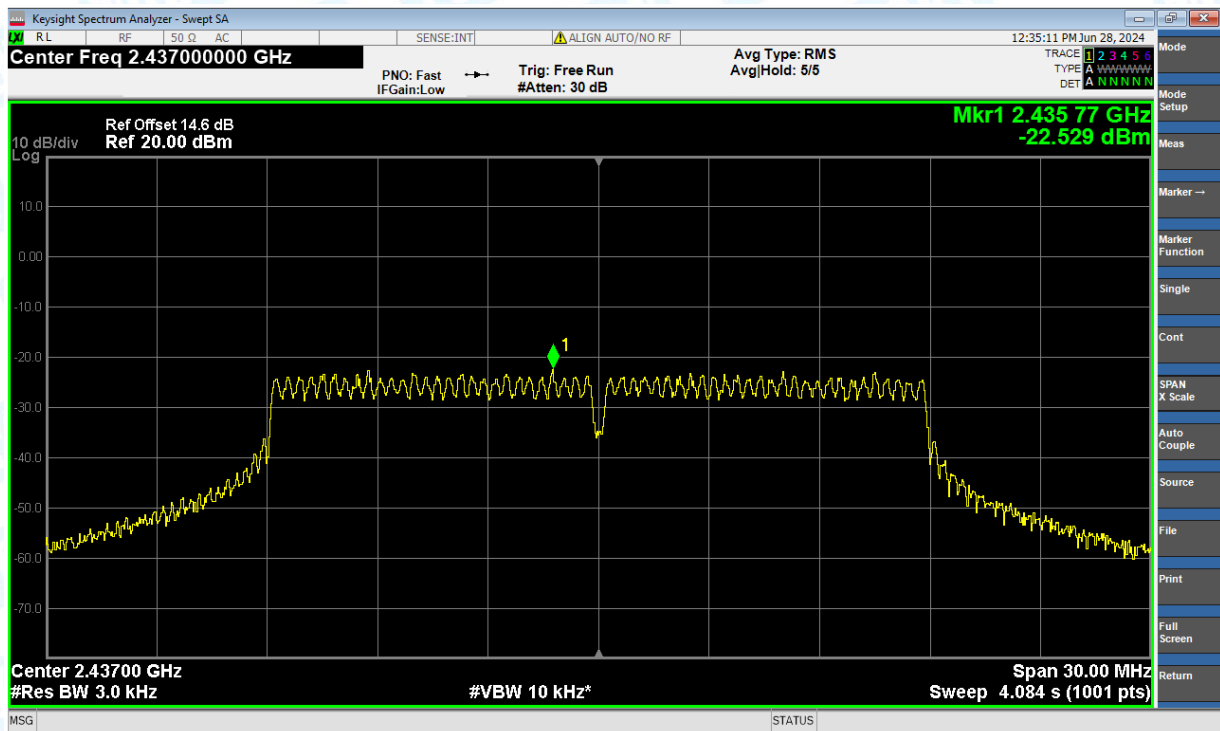
PSD NVNT g 2462MHz Ant1



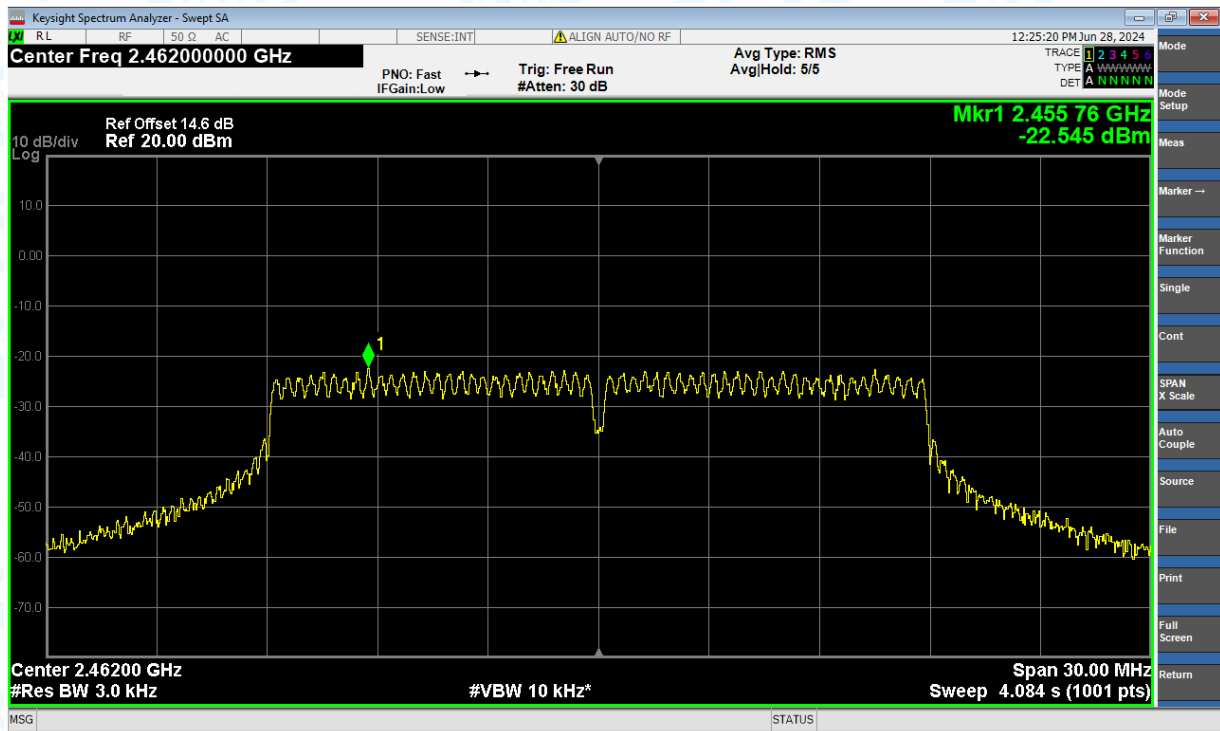
PSD NVNT n(HT20) 2412MHz Ant1



PSD NVNT n(HT20) 2437MHz Ant1



PSD NVNT n(HT20) 2462MHz Ant1



PSD NVNT n(HT40) 2422MHz Ant1

