

RF Test Data for 2.4G WiFi (Conducted Measurements)

General Description of EUT	
Product Name:	tablet
Test Model:	CP20
Sample ID:	202303-0146_01-02#
Environmental Conditions	
Temperature:	25℃
Relative Humidity:	55%
Test Voltage:	DC 3.85V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202303-0146-52 The report only show the worst case data.	

Contents

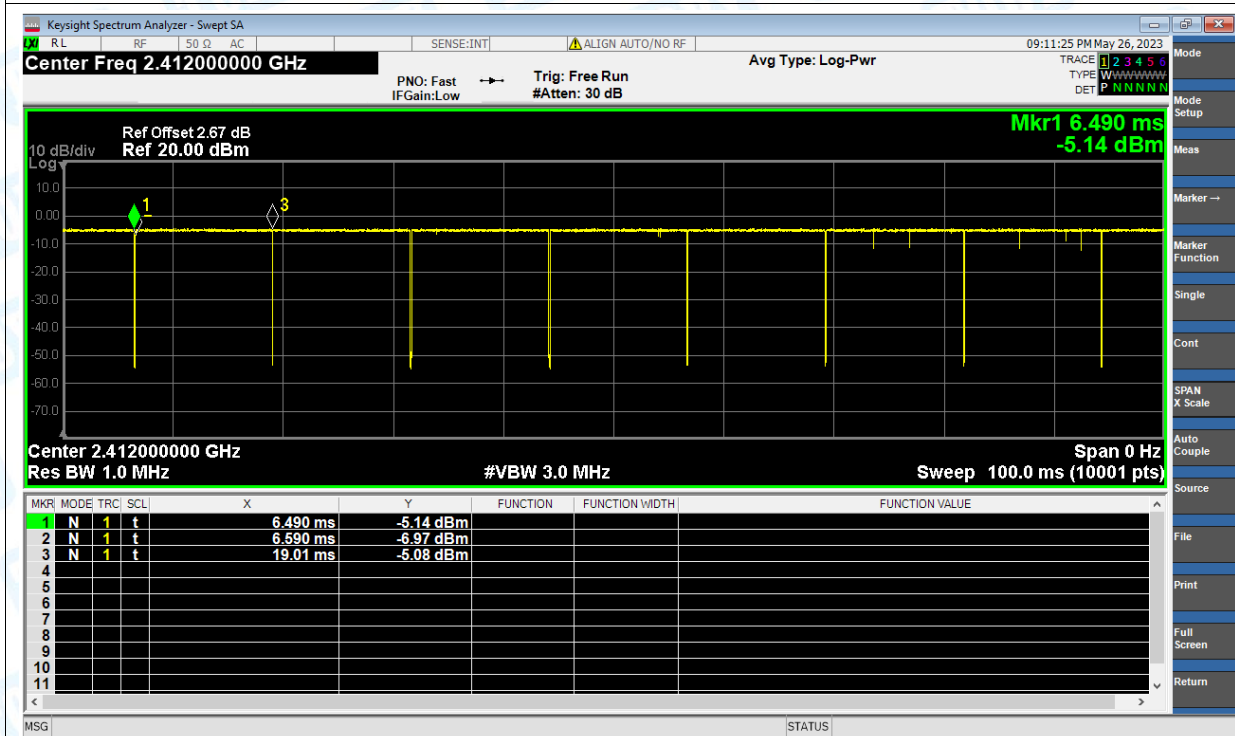
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1. Duty Cycle

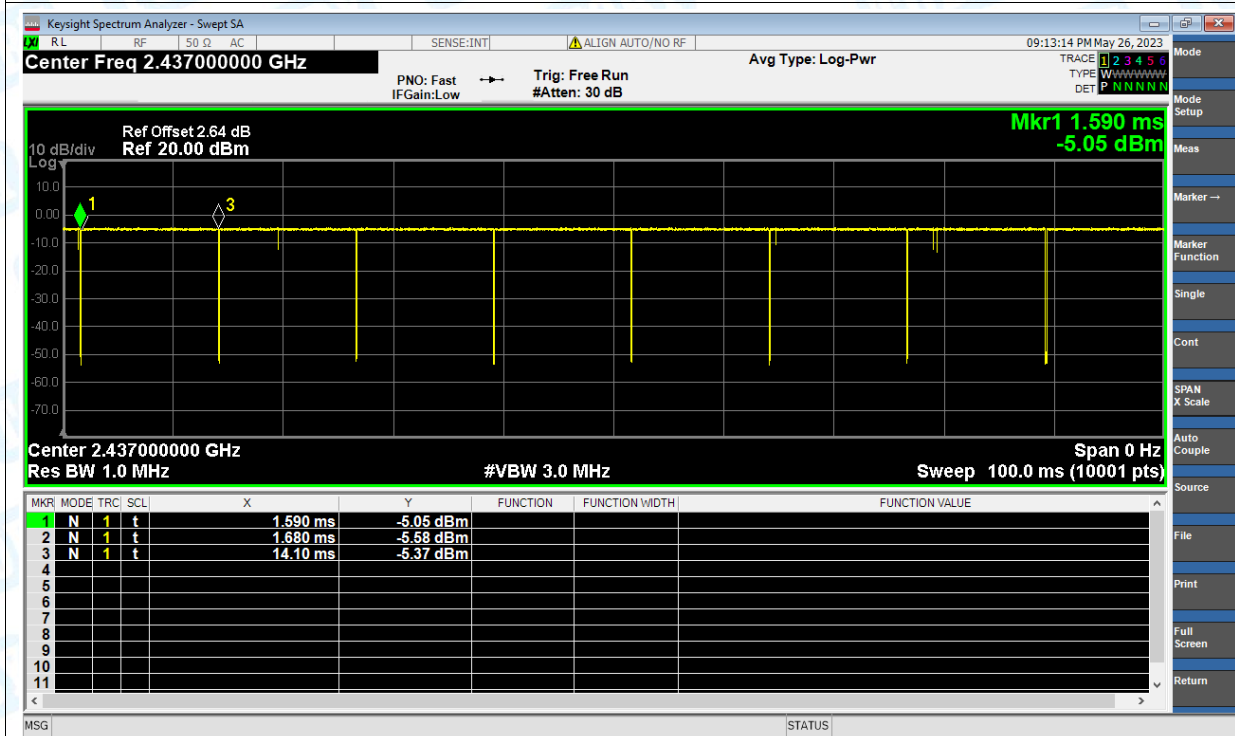
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.2	0.03	0.08
NVNT	b	2437	Ant1	99.28	0.03	0.08
NVNT	b	2462	Ant1	98.73	0.06	0.08
NVNT	g	2412	Ant1	93.67	0.28	0.48
NVNT	g	2437	Ant1	97.64	0.1	0.48
NVNT	g	2462	Ant1	93.21	0.31	0.49
NVNT	n(HT20)	2412	Ant1	98.47	0.07	0.52
NVNT	n(HT20)	2437	Ant1	96.97	0.13	0.52
NVNT	n(HT20)	2462	Ant1	96.48	0.16	0.52
NVNT	n(HT40)	2422	Ant1	84.68	0.72	1.06
NVNT	n(HT40)	2437	Ant1	89.52	0.48	1.06
NVNT	n(HT40)	2452	Ant1	89.62	0.48	1.05

Test Graphs

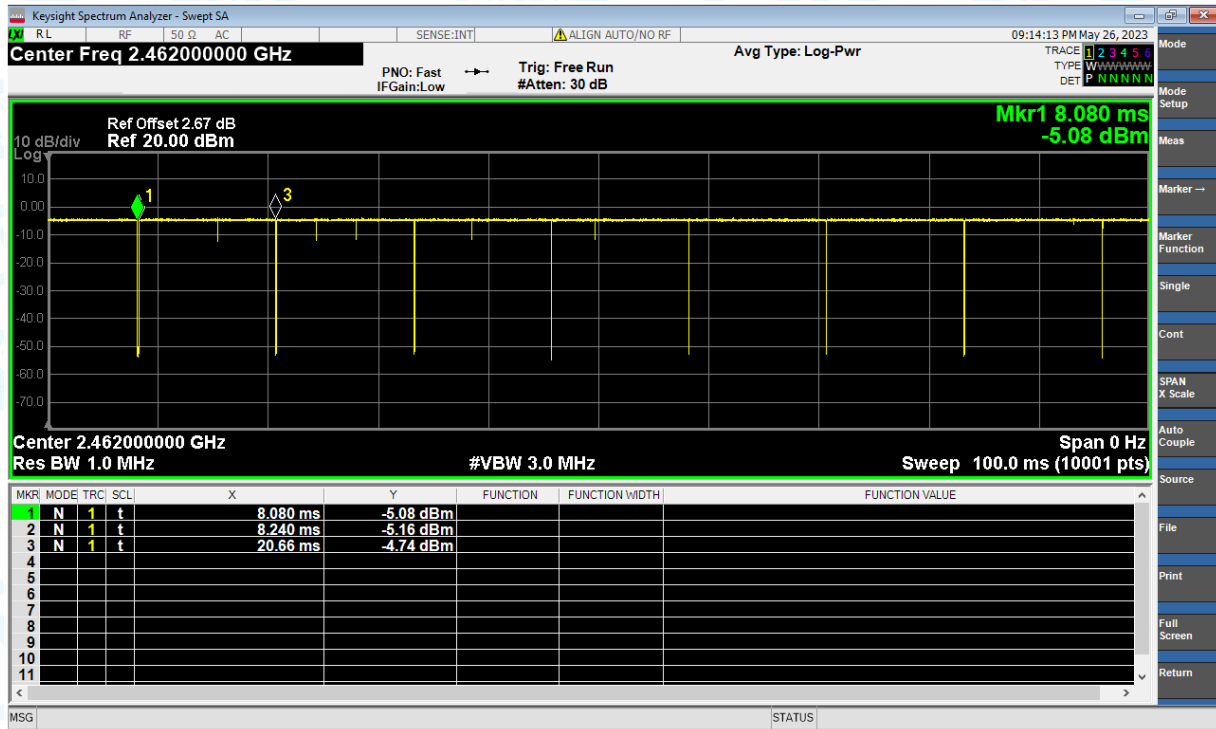
Duty Cycle NVNT b 2412MHz Ant1



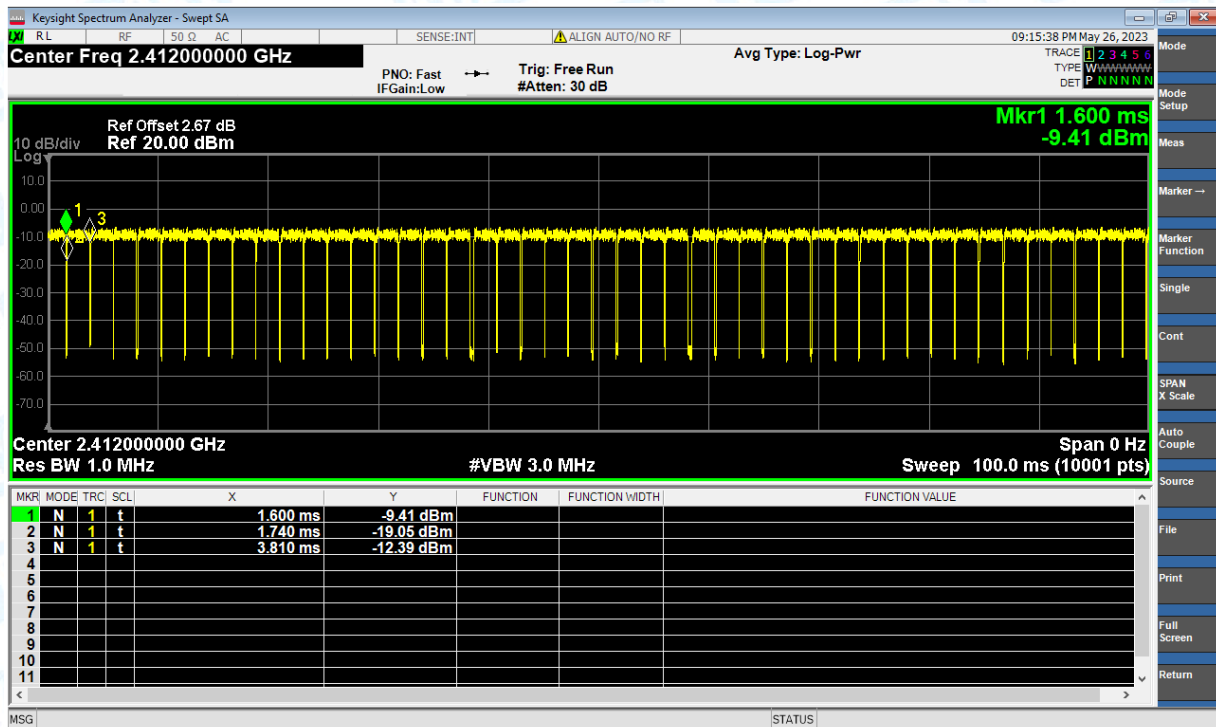
Duty Cycle NVNT b 2437MHz Ant1



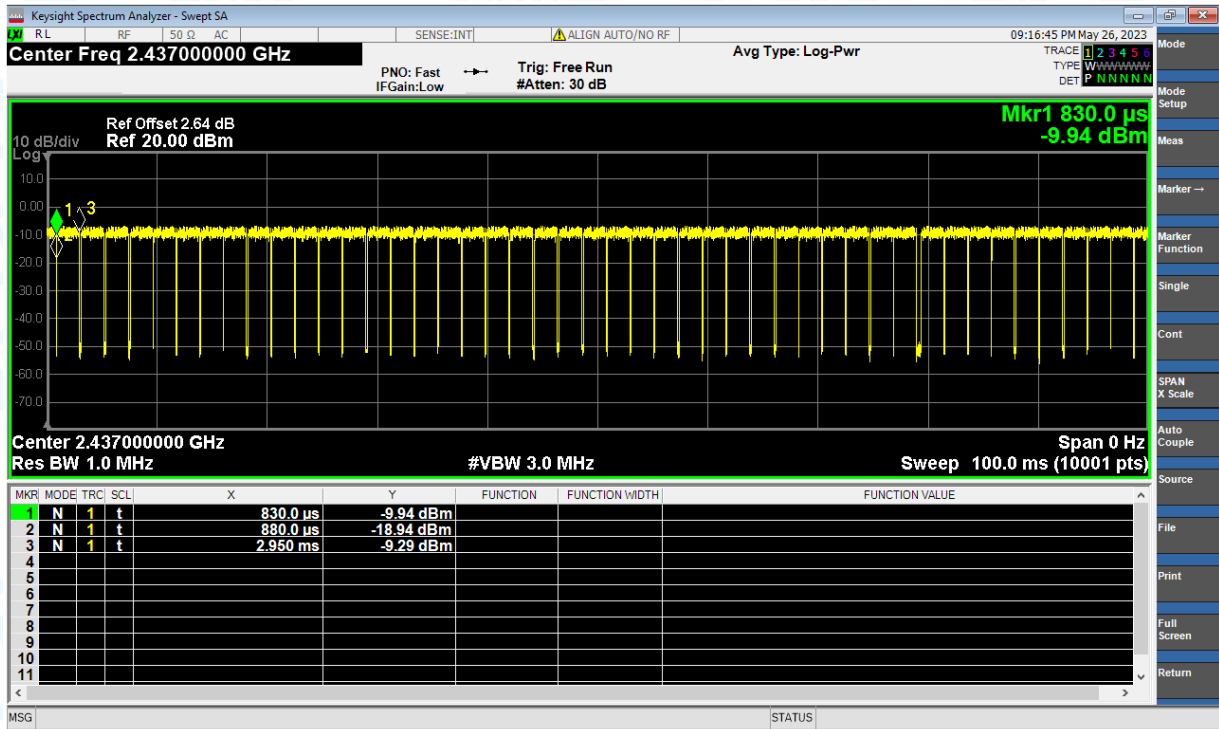
Duty Cycle NVNT b 2462MHz Ant1



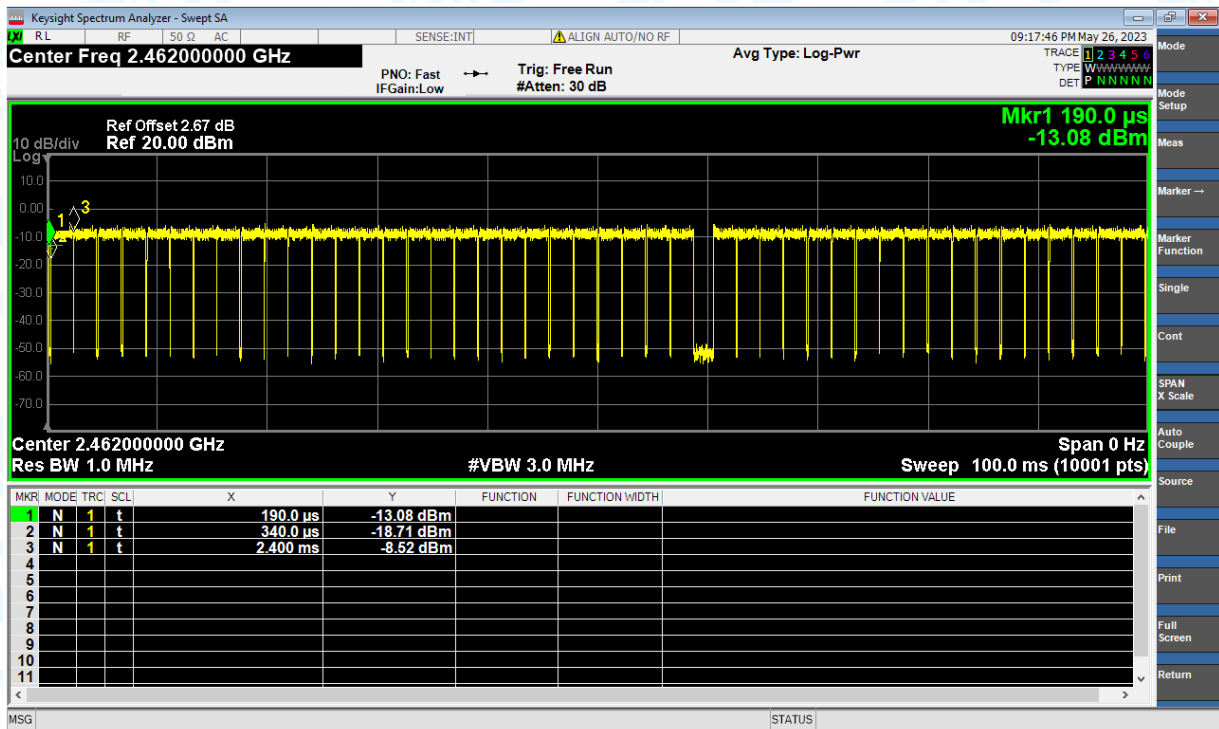
Duty Cycle NVNT g 2412MHz Ant1



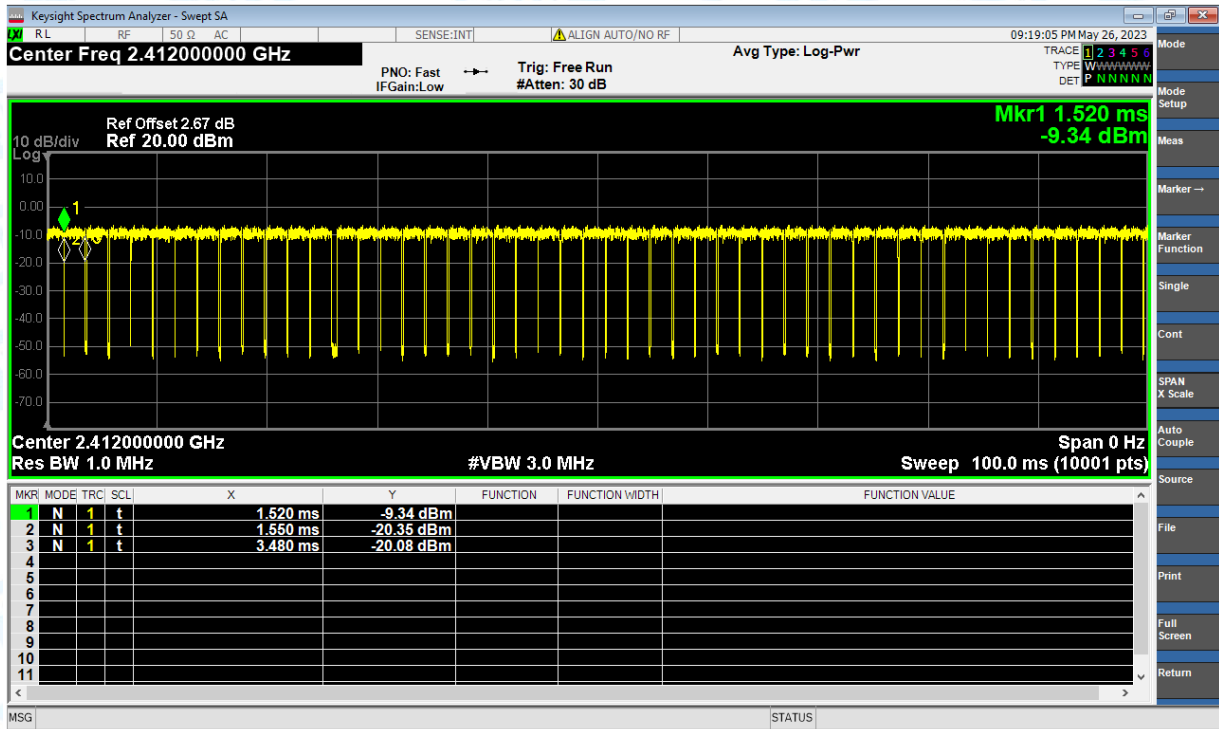
Duty Cycle NVNT g 2437MHz Ant1



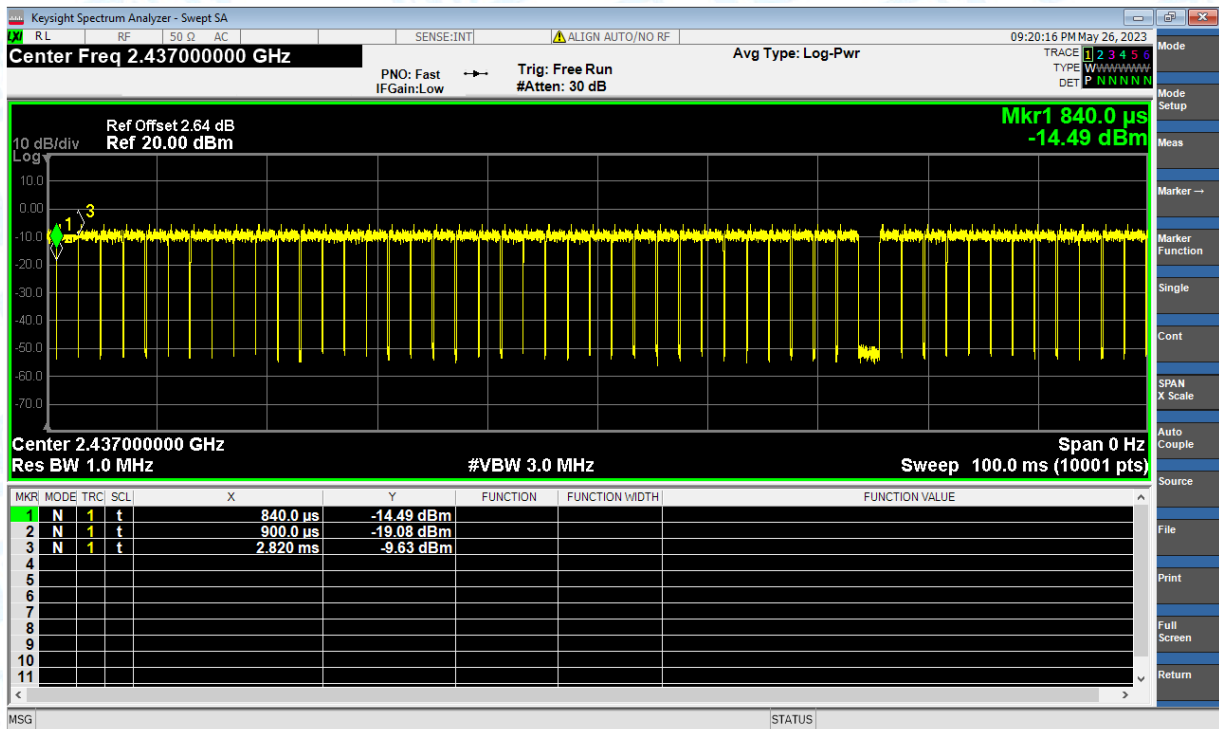
Duty Cycle NVNT g 2462MHz Ant1



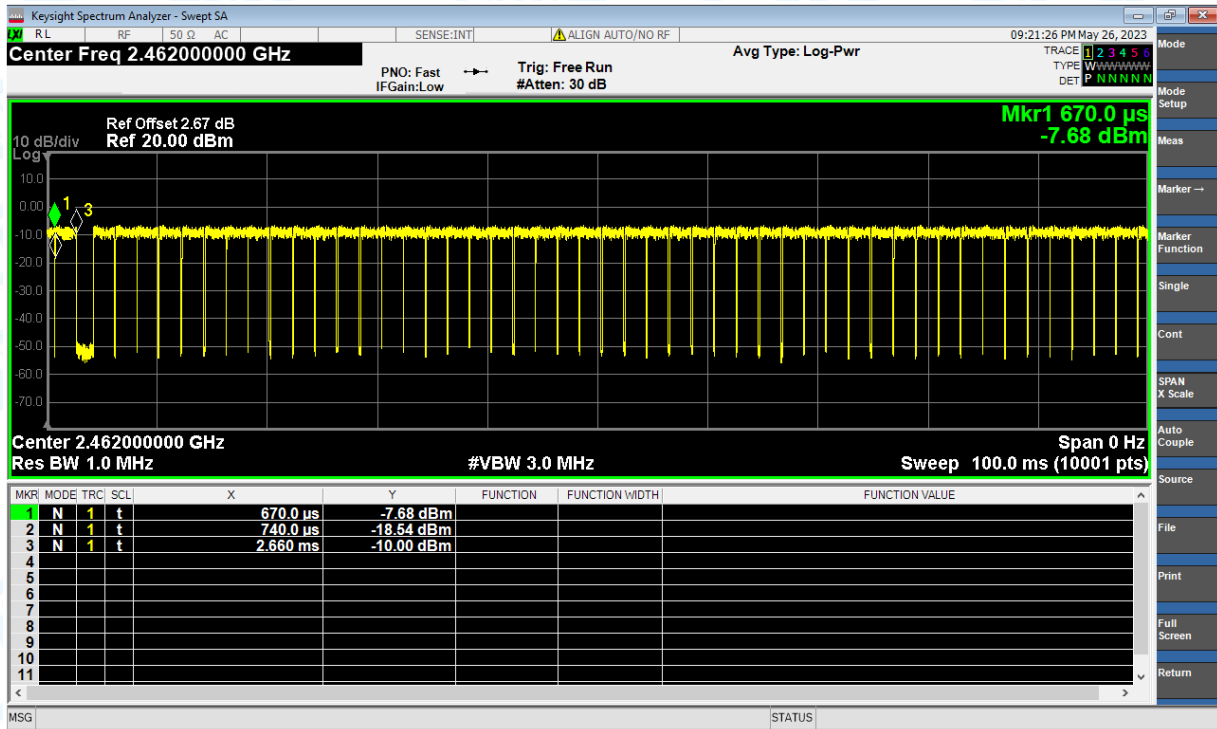
Duty Cycle NVNT n(HT20) 2412MHz Ant1



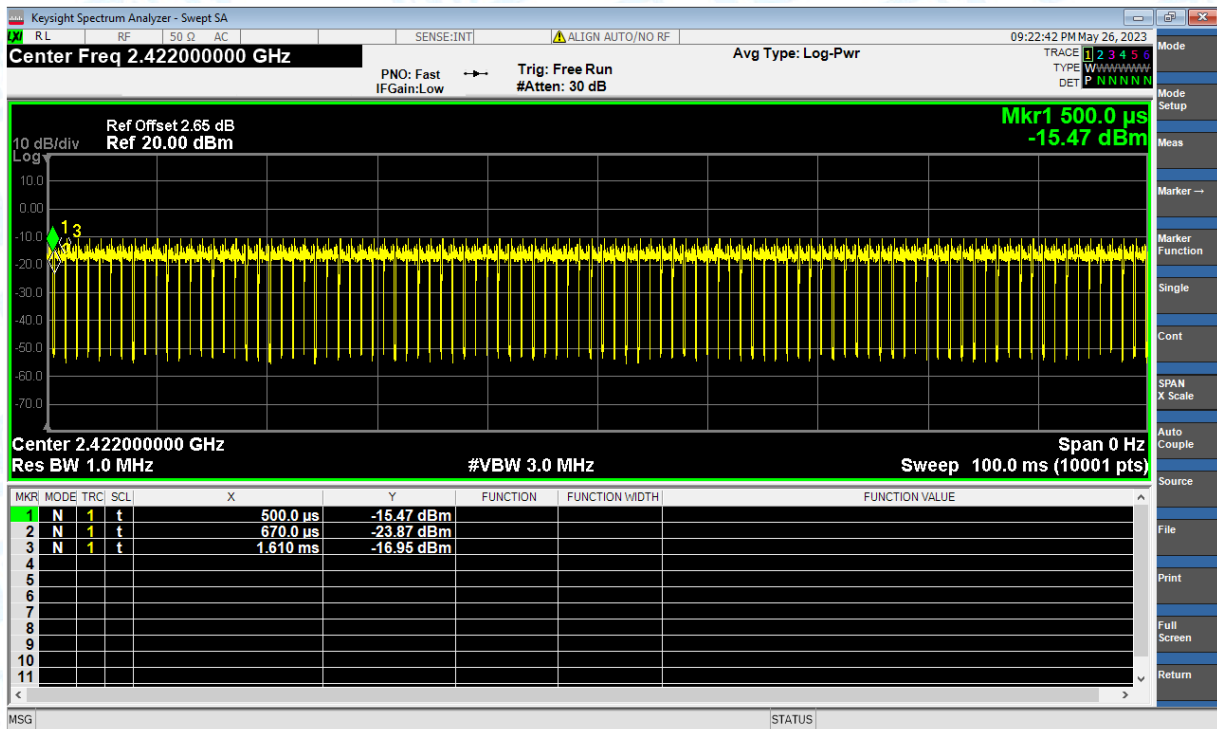
Duty Cycle NVNT n(HT20) 2437MHz Ant1



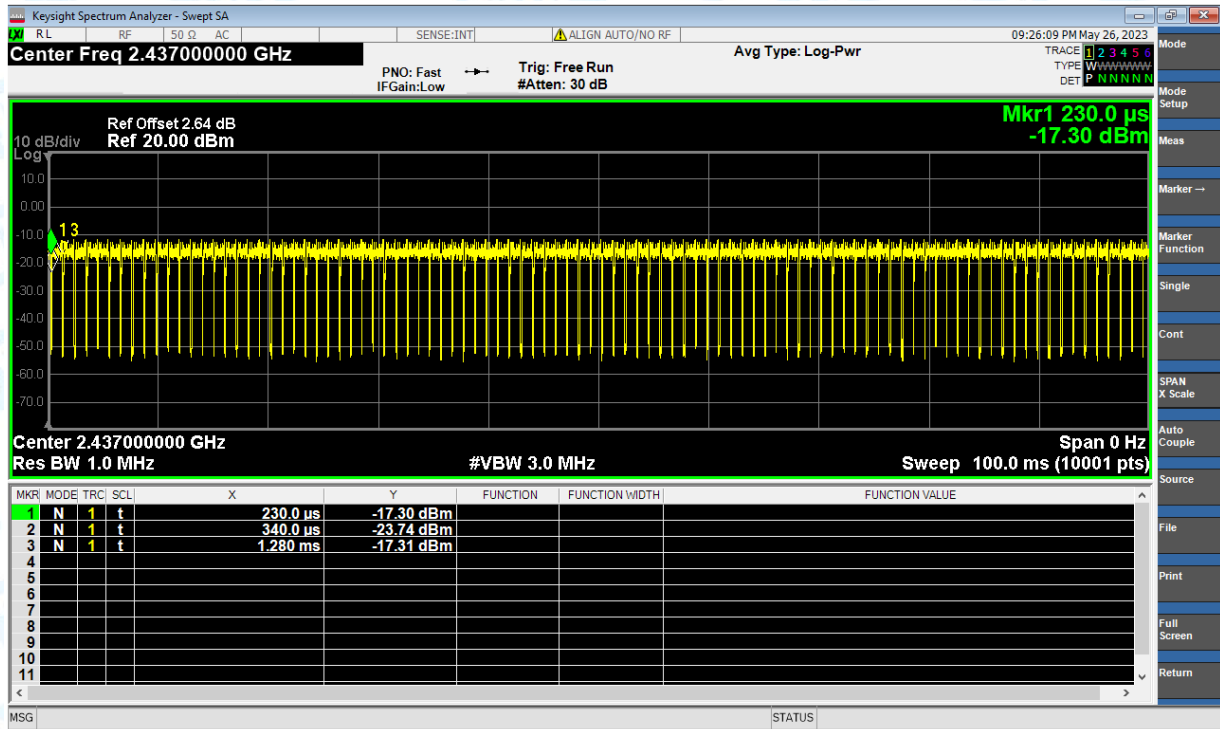
Duty Cycle NVNT n(HT20) 2462MHz Ant1



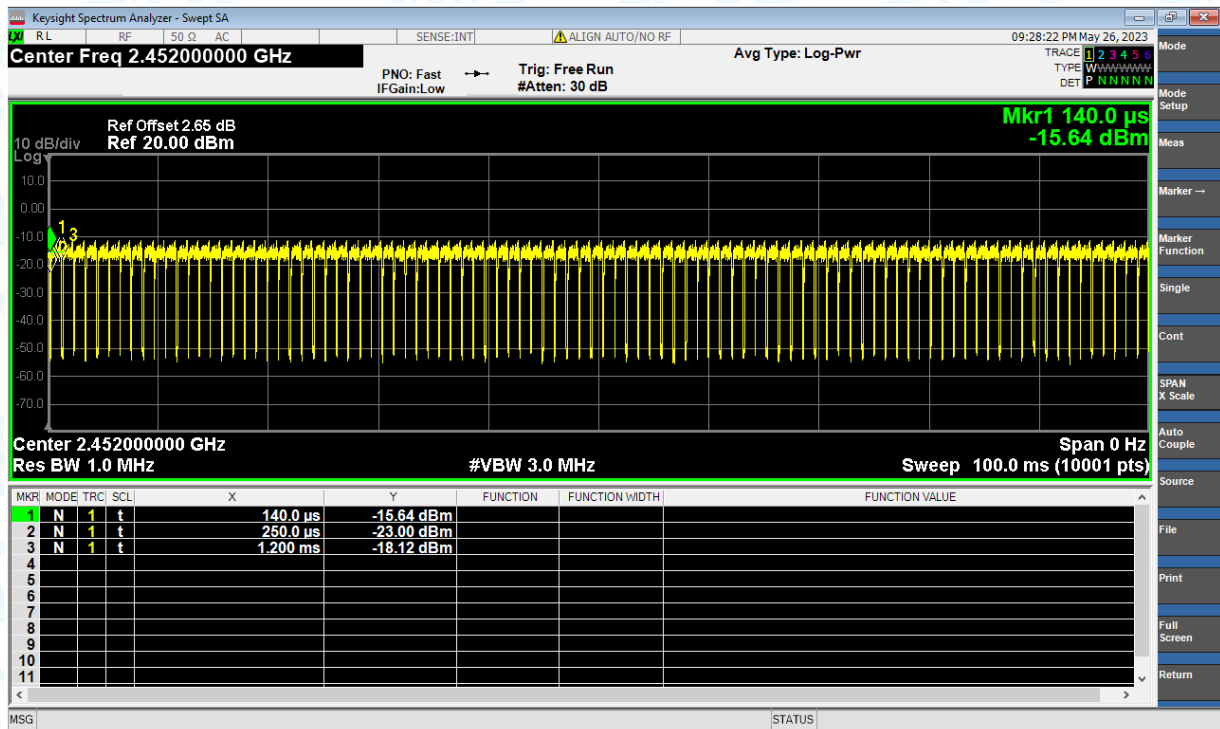
Duty Cycle NVNT n(HT40) 2422MHz Ant1



Duty Cycle NVNT n(HT40) 2437MHz Ant1



Duty Cycle NVNT n(HT40) 2452MHz Ant1



2. Maximum Conducted Output Power

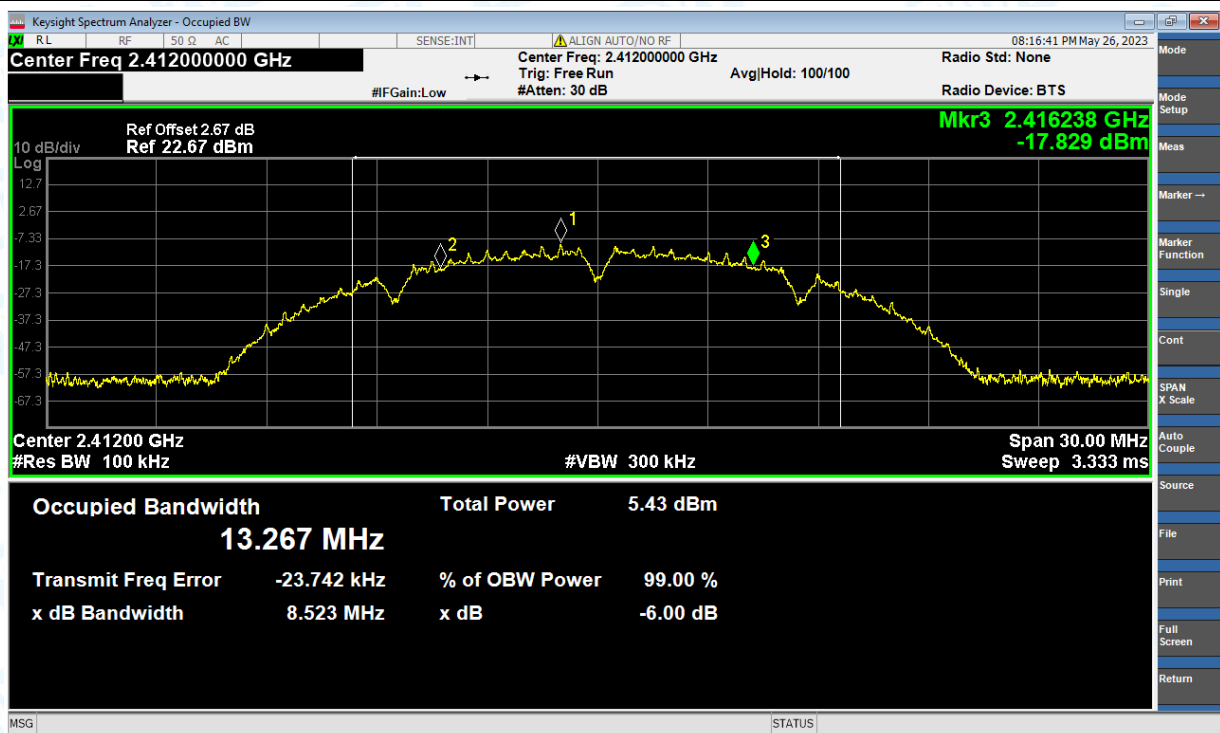
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-0.12	30	Pass
NVNT	b	2437	Ant1	-1.07	30	Pass
NVNT	b	2462	Ant1	-0.746	30	Pass
NVNT	g	2412	Ant1	-2.719	30	Pass
NVNT	g	2437	Ant1	-2.895	30	Pass
NVNT	g	2462	Ant1	-2.401	30	Pass
NVNT	n(HT20)	2412	Ant1	-2.949	30	Pass
NVNT	n(HT20)	2437	Ant1	-2.926	30	Pass
NVNT	n(HT20)	2462	Ant1	-2.482	30	Pass
NVNT	n(HT40)	2422	Ant1	-3.111	30	Pass
NVNT	n(HT40)	2437	Ant1	-2.084	30	Pass
NVNT	n(HT40)	2452	Ant1	0.716	30	Pass

3. -6dB Bandwidth

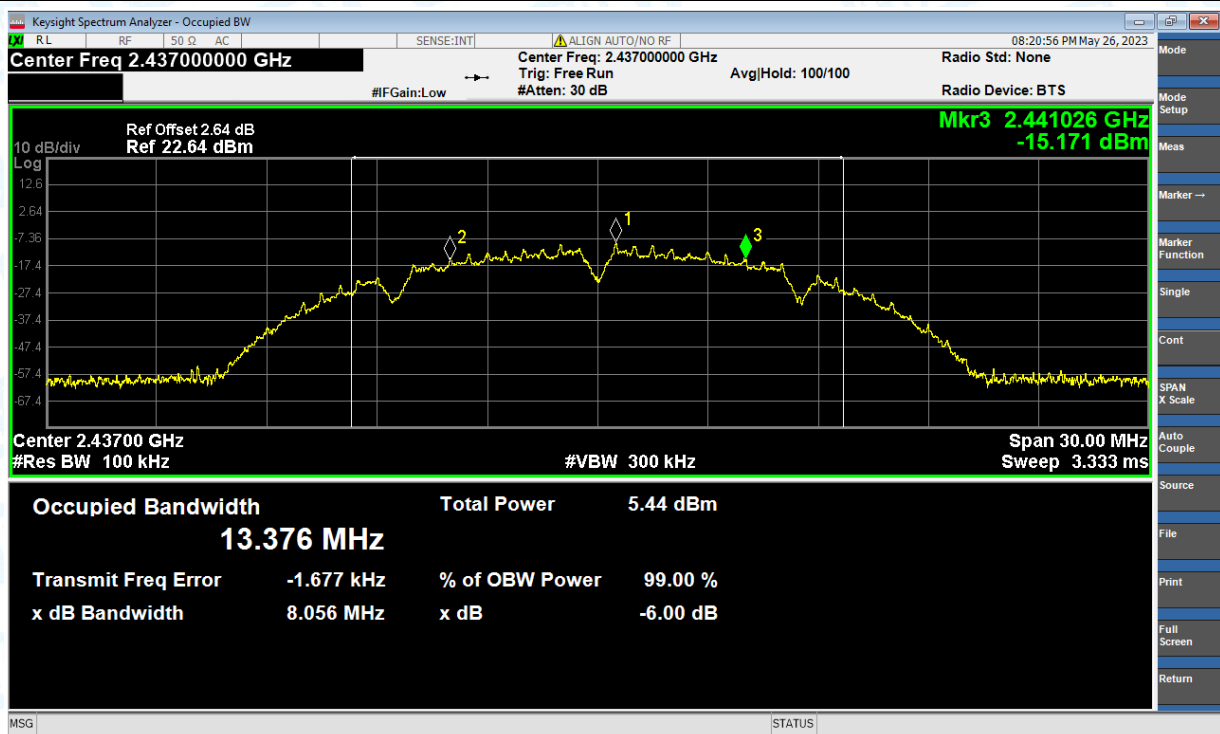
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.52	0.5	Pass
NVNT	b	2437	Ant1	8.06	0.5	Pass
NVNT	b	2462	Ant1	9.04	0.5	Pass
NVNT	g	2412	Ant1	16.37	0.5	Pass
NVNT	g	2437	Ant1	16.33	0.5	Pass
NVNT	g	2462	Ant1	16.35	0.5	Pass
NVNT	n(HT20)	2412	Ant1	17.56	0.5	Pass
NVNT	n(HT20)	2437	Ant1	17.37	0.5	Pass
NVNT	n(HT20)	2462	Ant1	17.56	0.5	Pass
NVNT	n(HT40)	2422	Ant1	35.31	0.5	Pass
NVNT	n(HT40)	2437	Ant1	35.75	0.5	Pass
NVNT	n(HT40)	2452	Ant1	35.65	0.5	Pass

Test Graphs

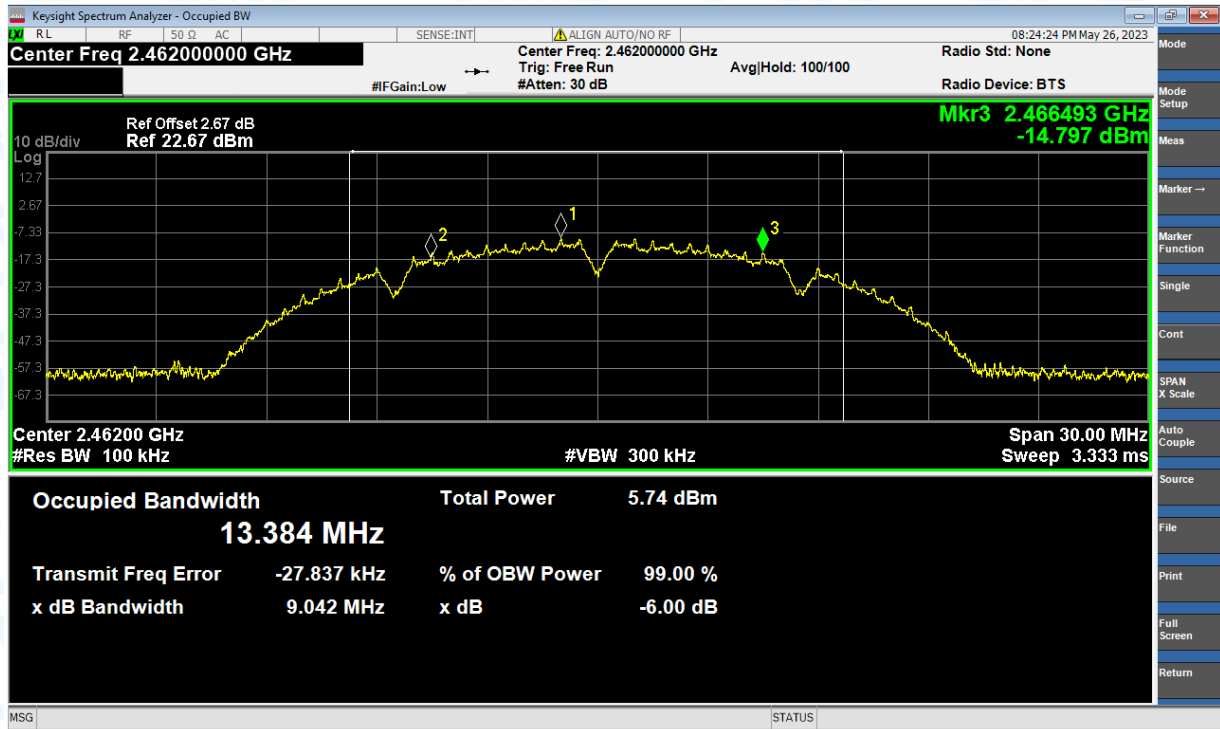
-6dB Bandwidth NVNT b 2412MHz Ant1



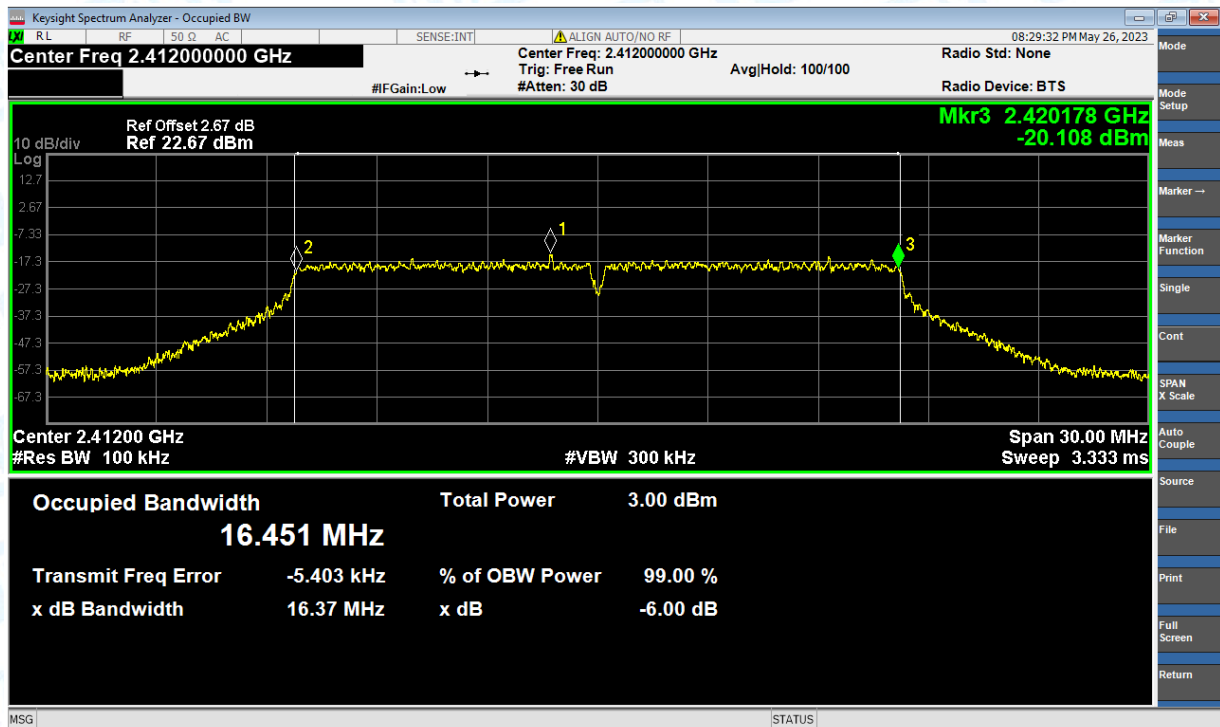
-6dB Bandwidth NVNT b 2437MHz Ant1



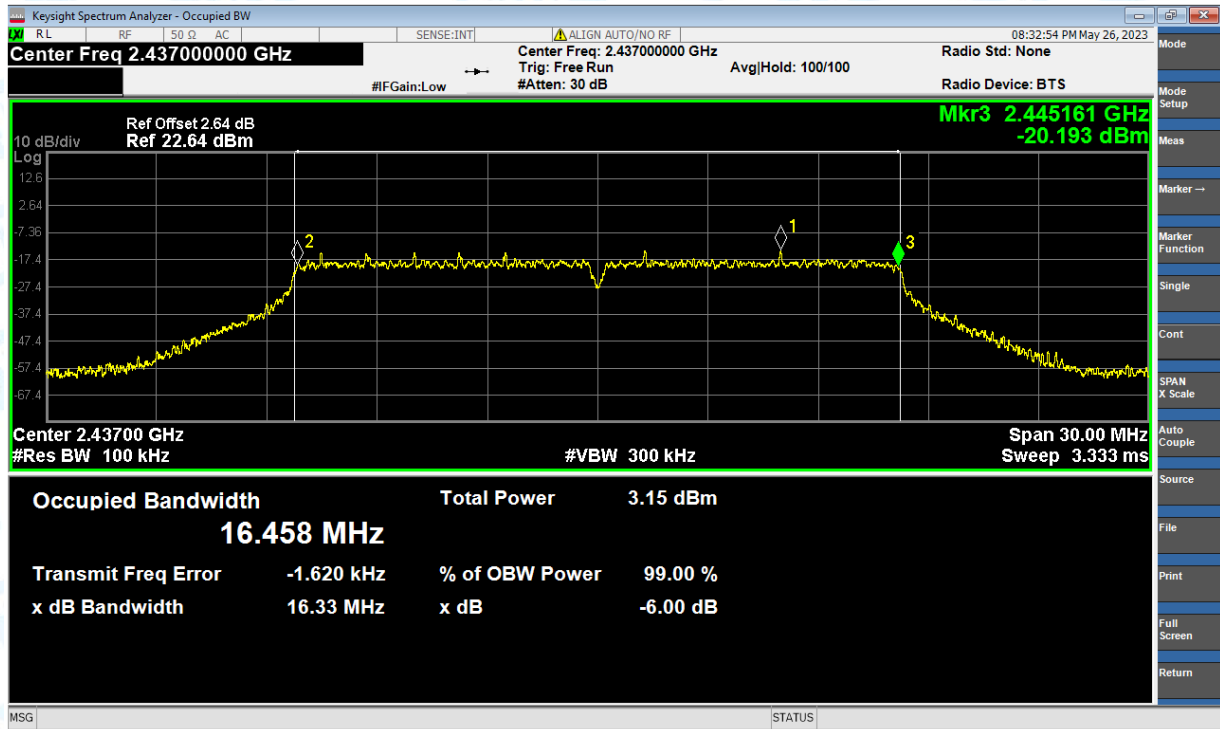
-6dB Bandwidth NVNT b 2462MHz Ant1



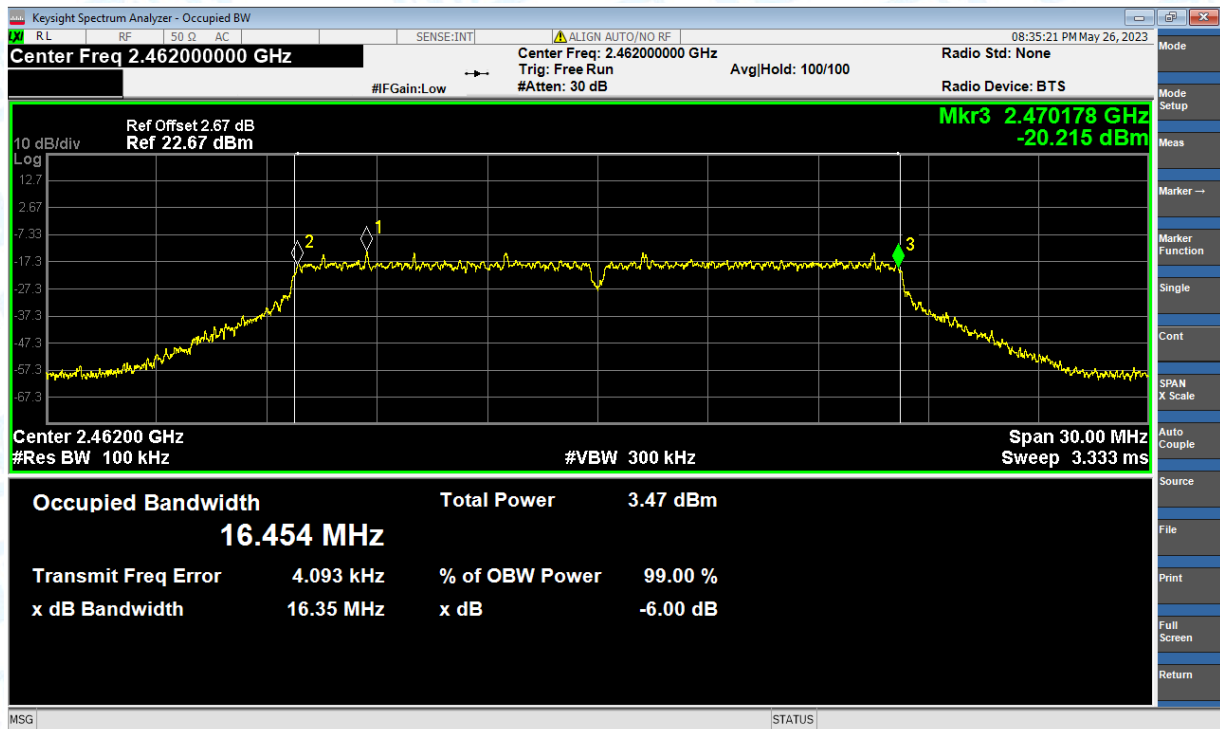
-6dB Bandwidth NVNT g 2412MHz Ant1



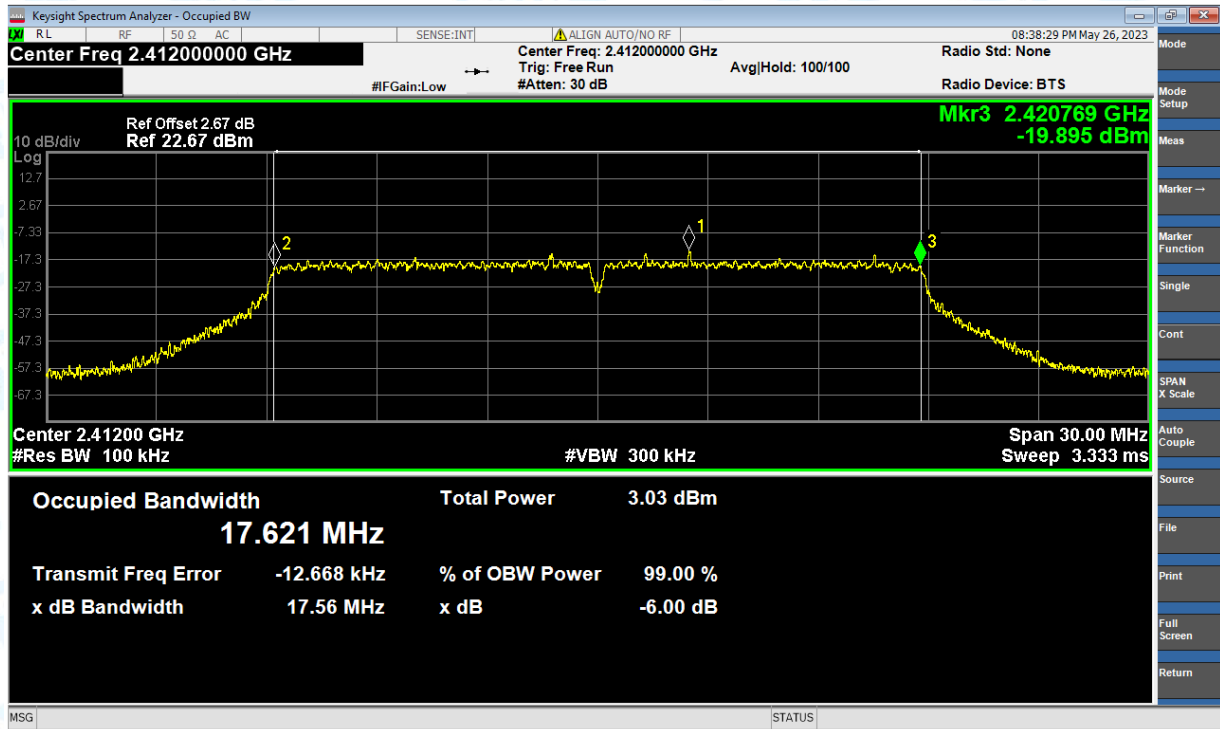
-6dB Bandwidth NVNT g 2437MHz Ant1



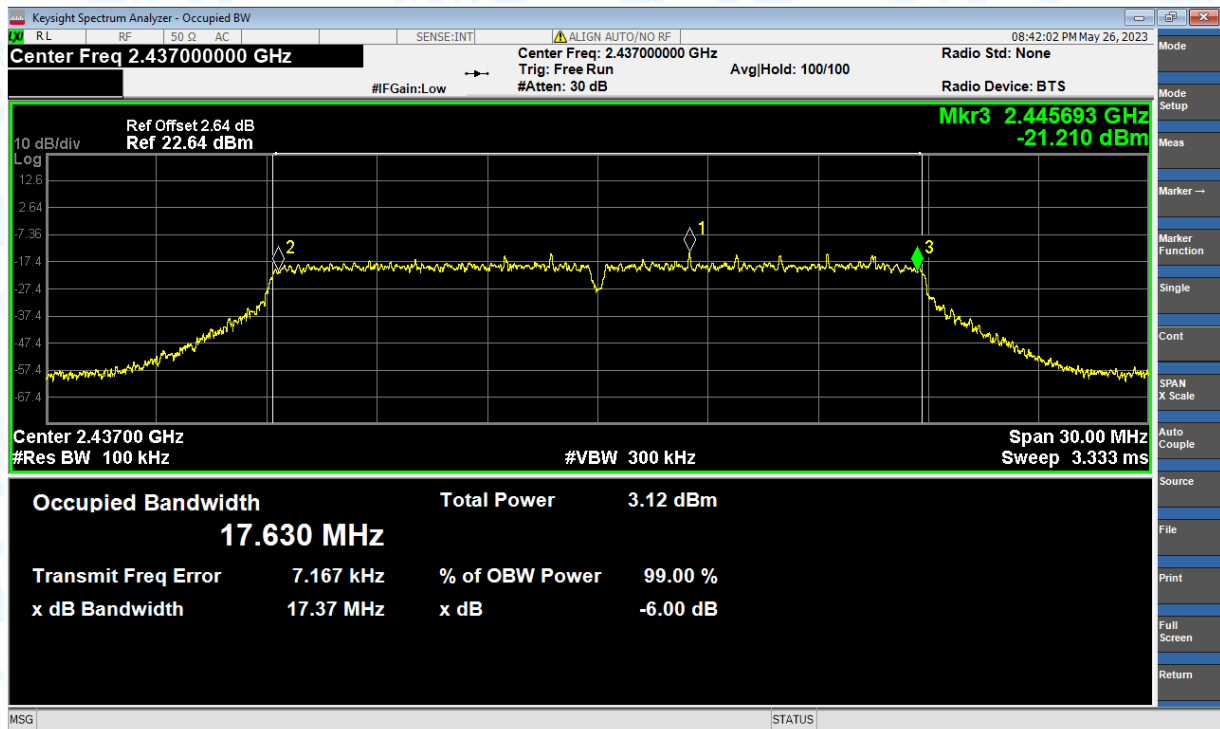
-6dB Bandwidth NVNT g 2462MHz Ant1



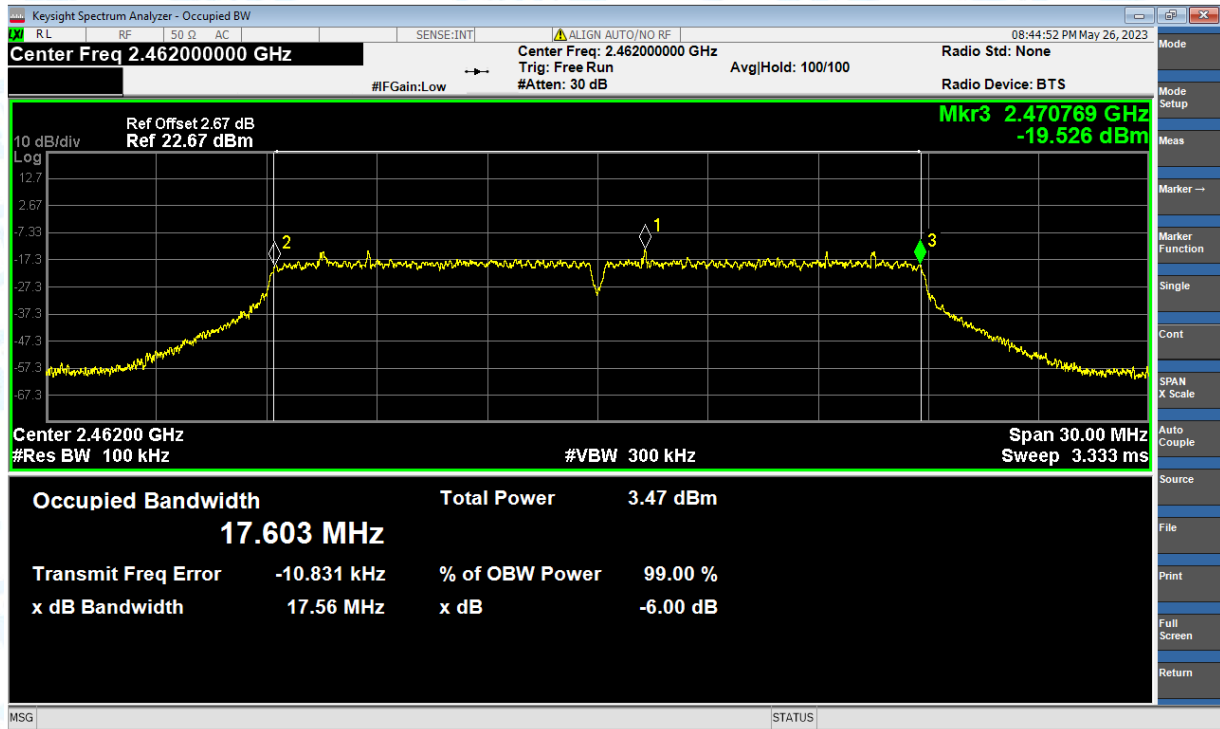
-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



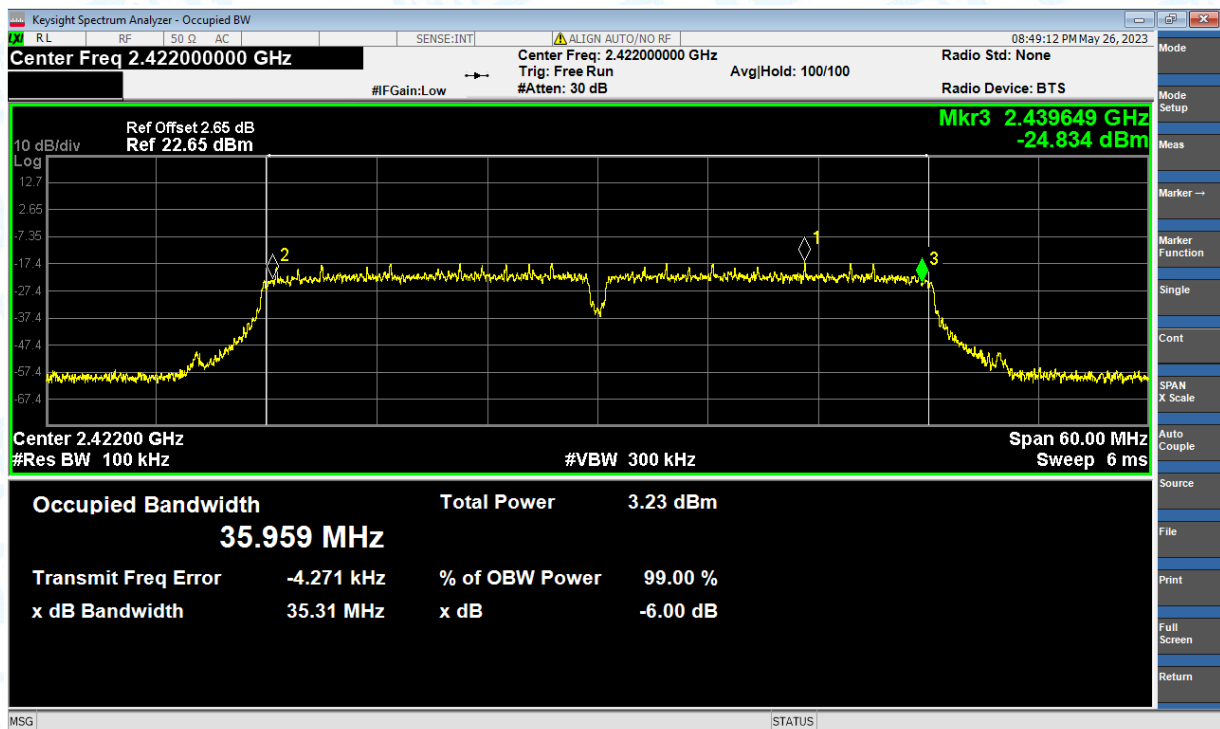
-6dB Bandwidth NVNT n(HT20) 2437MHz Ant1



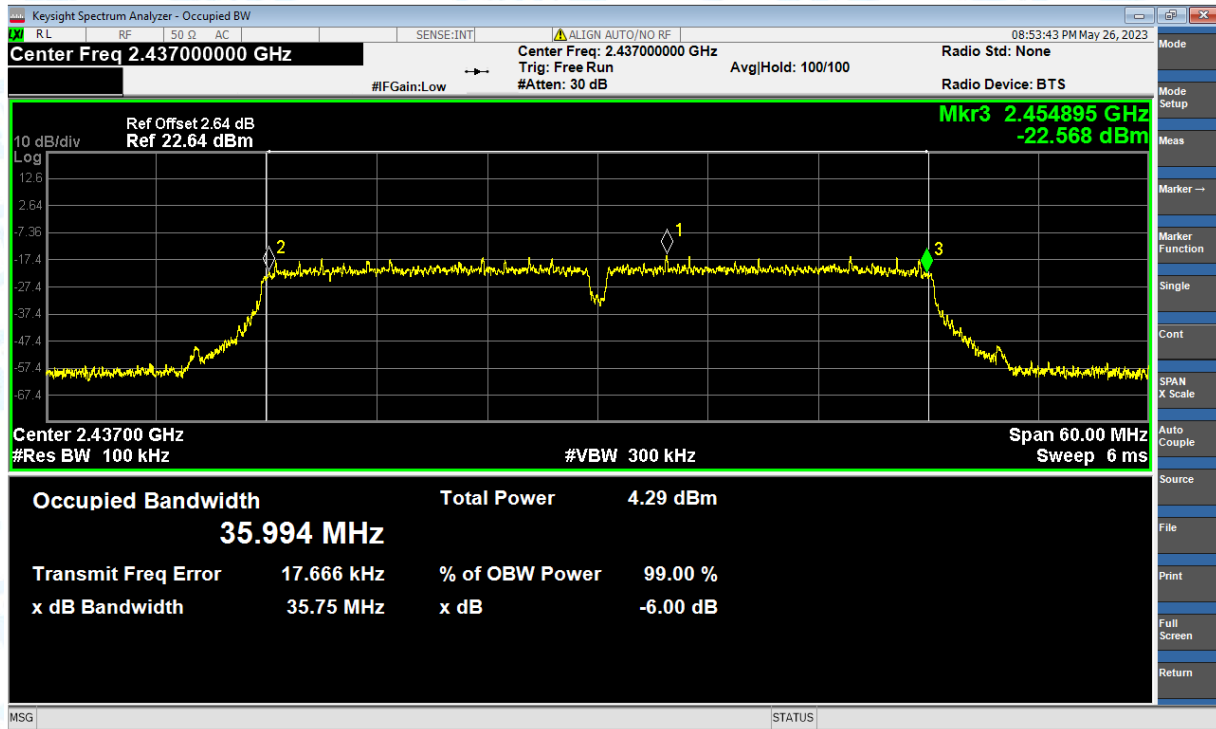
-6dB Bandwidth NVNT n(HT20) 2462MHz Ant1



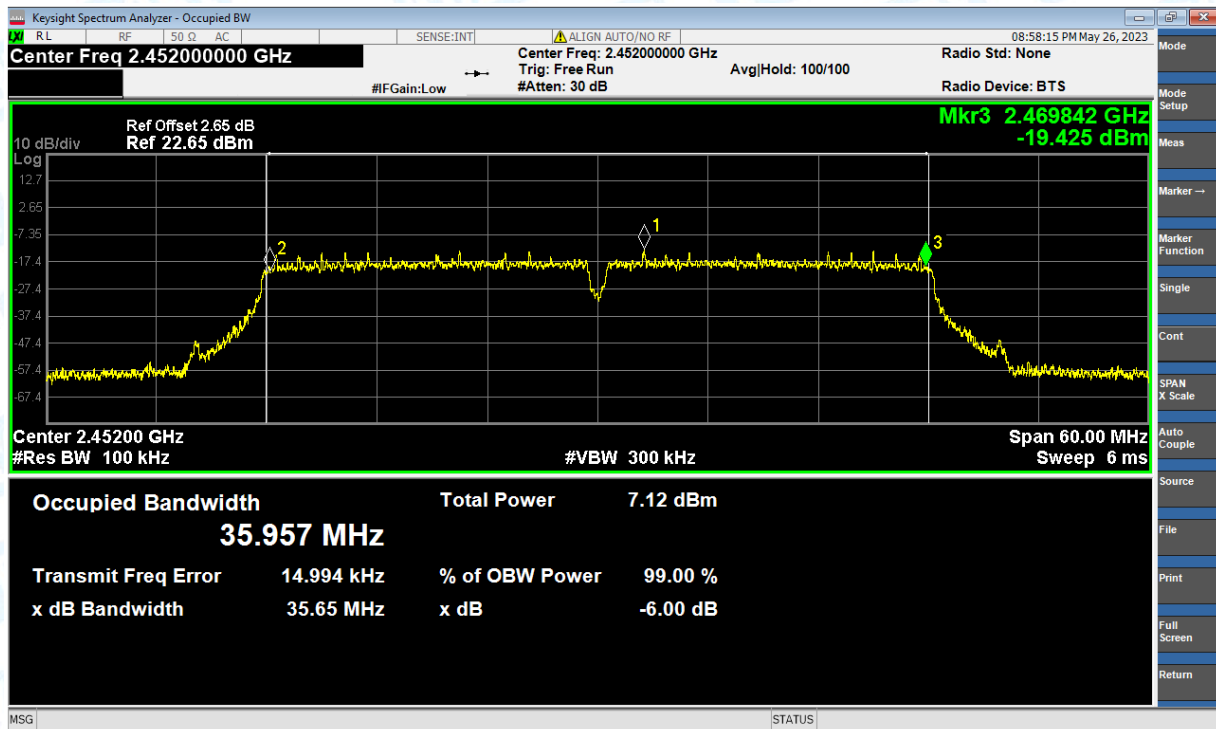
-6dB Bandwidth NVNT n(HT40) 2422MHz Ant1



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



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

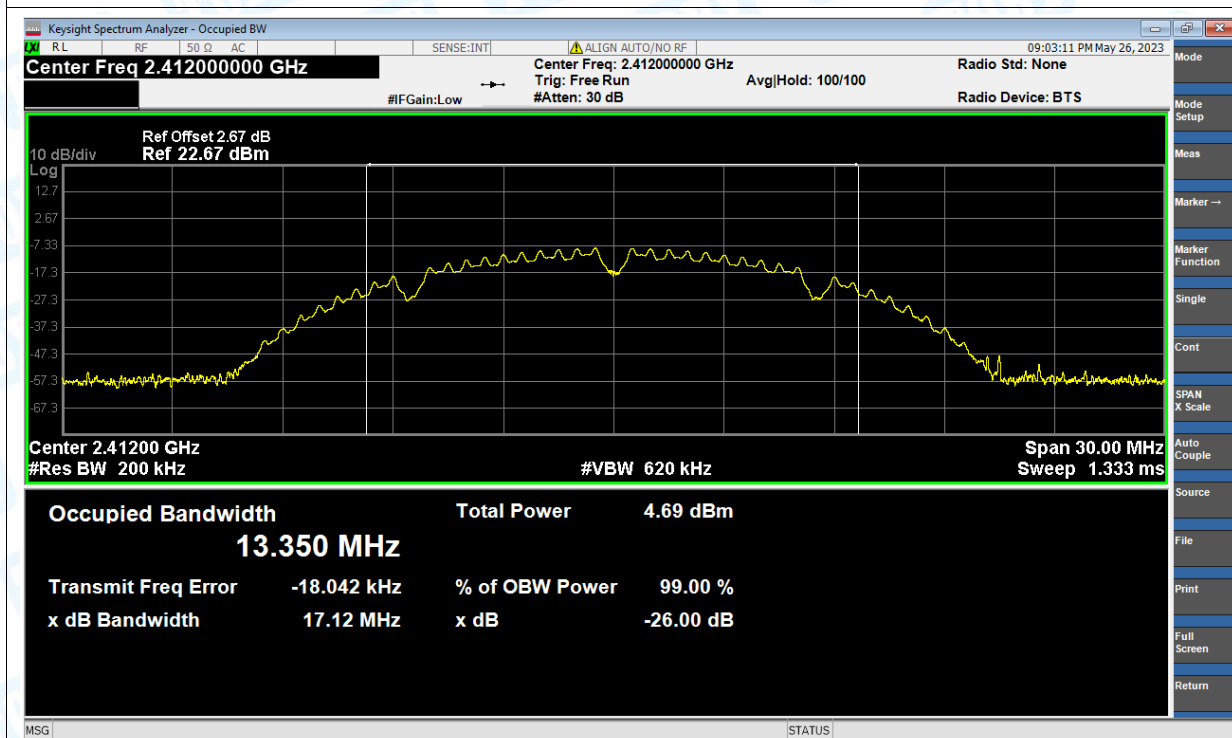


4. Occupied Channel Bandwidth

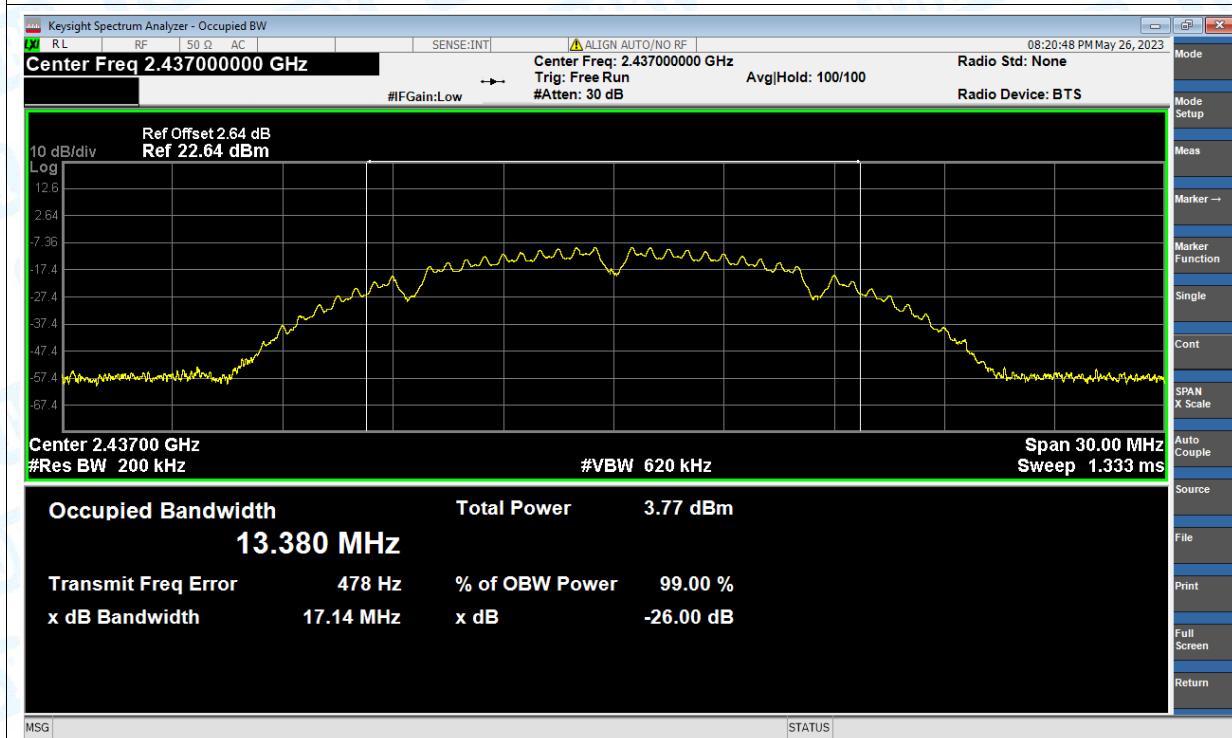
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	13.35
NVNT	b	2437	Ant1	13.38
NVNT	b	2462	Ant1	13.359
NVNT	g	2412	Ant1	16.537
NVNT	g	2437	Ant1	16.62
NVNT	g	2462	Ant1	16.57
NVNT	n(HT20)	2412	Ant1	17.695
NVNT	n(HT20)	2437	Ant1	17.674
NVNT	n(HT20)	2462	Ant1	17.662
NVNT	n(HT40)	2422	Ant1	36.149
NVNT	n(HT40)	2437	Ant1	36.138
NVNT	n(HT40)	2452	Ant1	36.055

Test Graphs

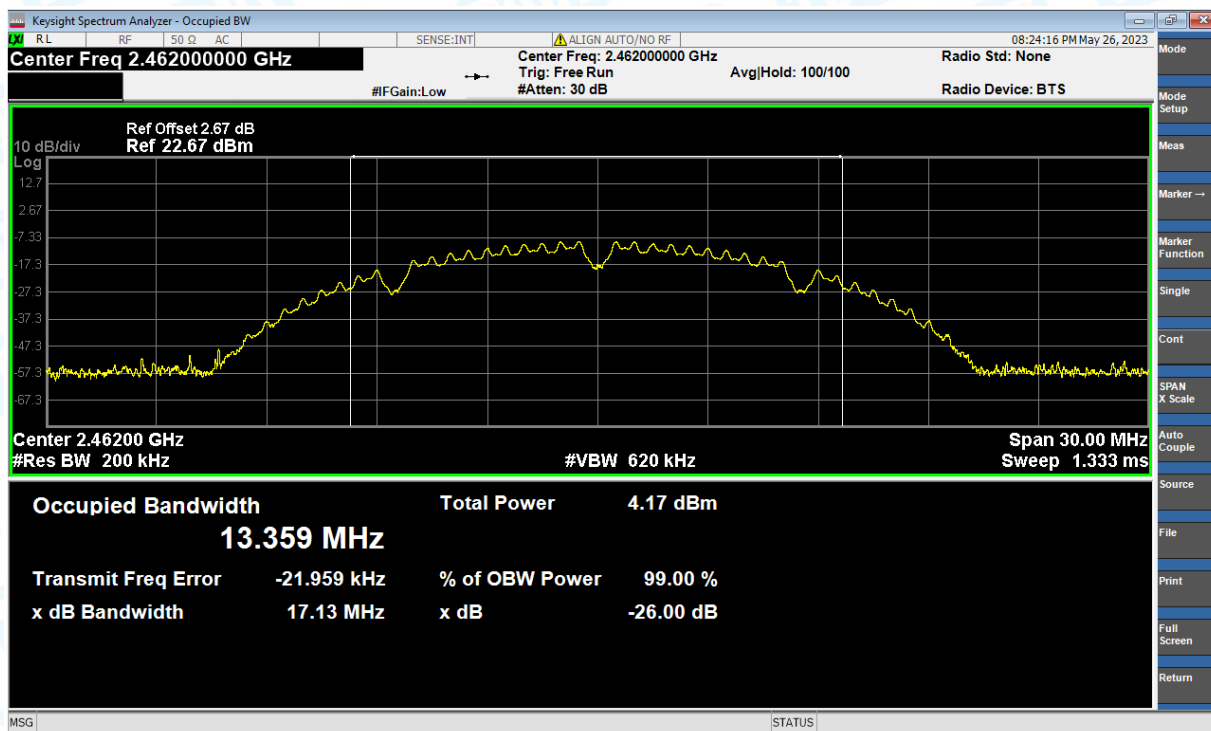
OBW NVNT b 2412MHz Ant1



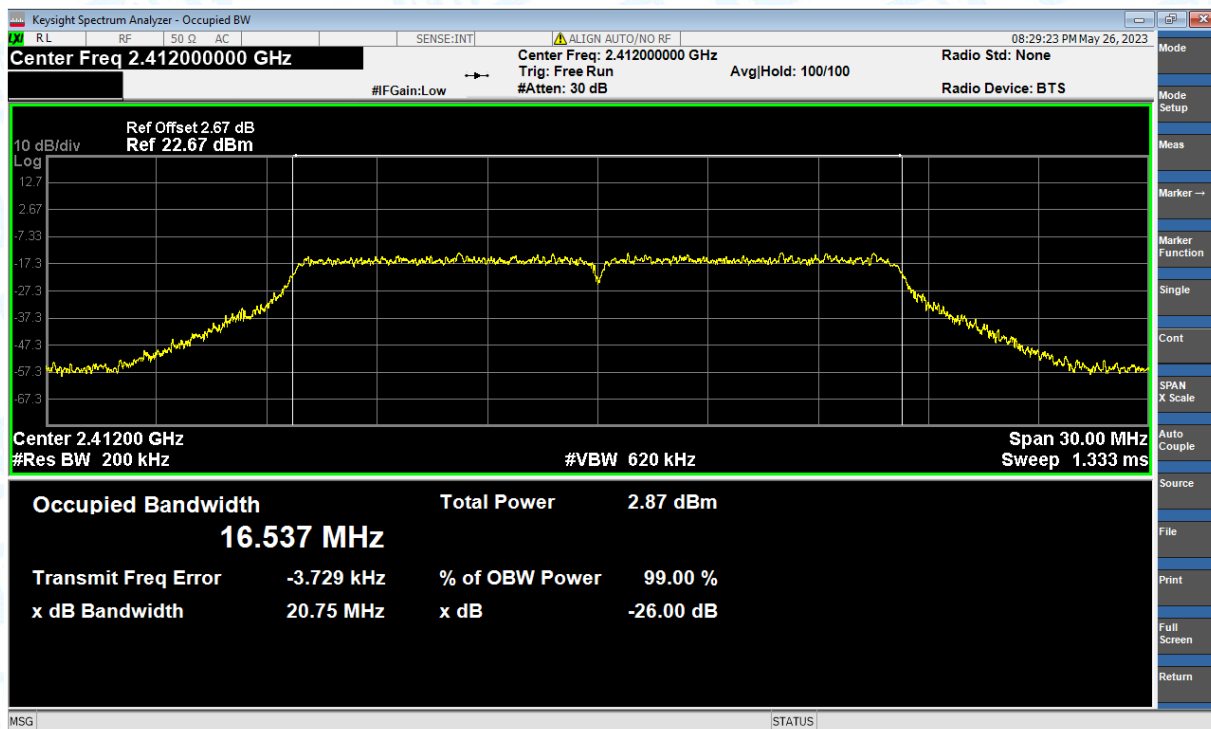
OBW NVNT b 2437MHz Ant1



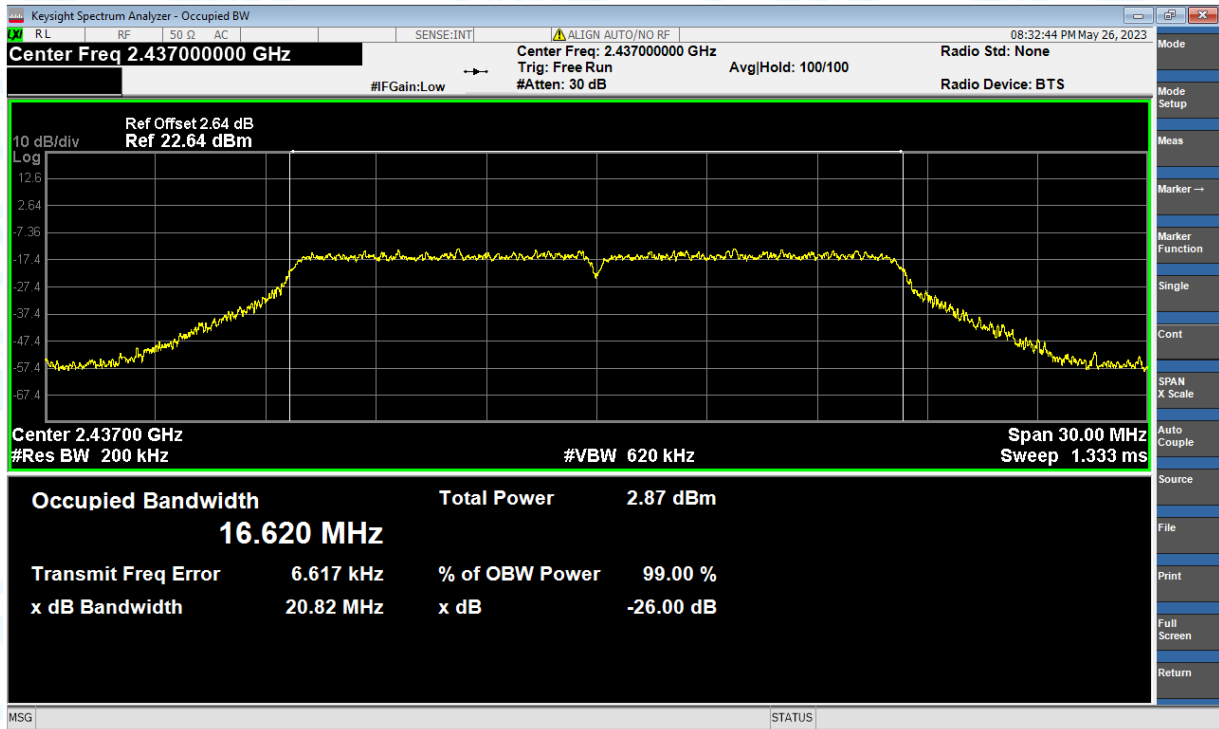
OBW NVNT b 2462MHz Ant1



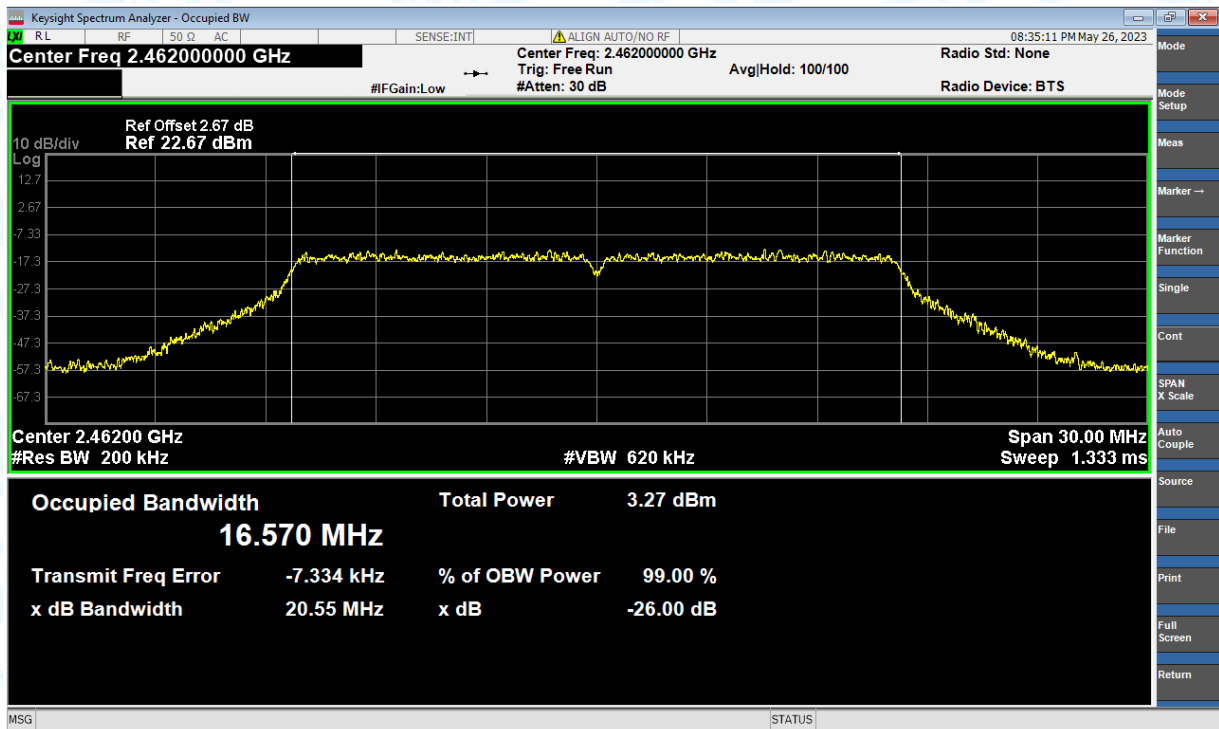
OBW NVNT g 2412MHz Ant1



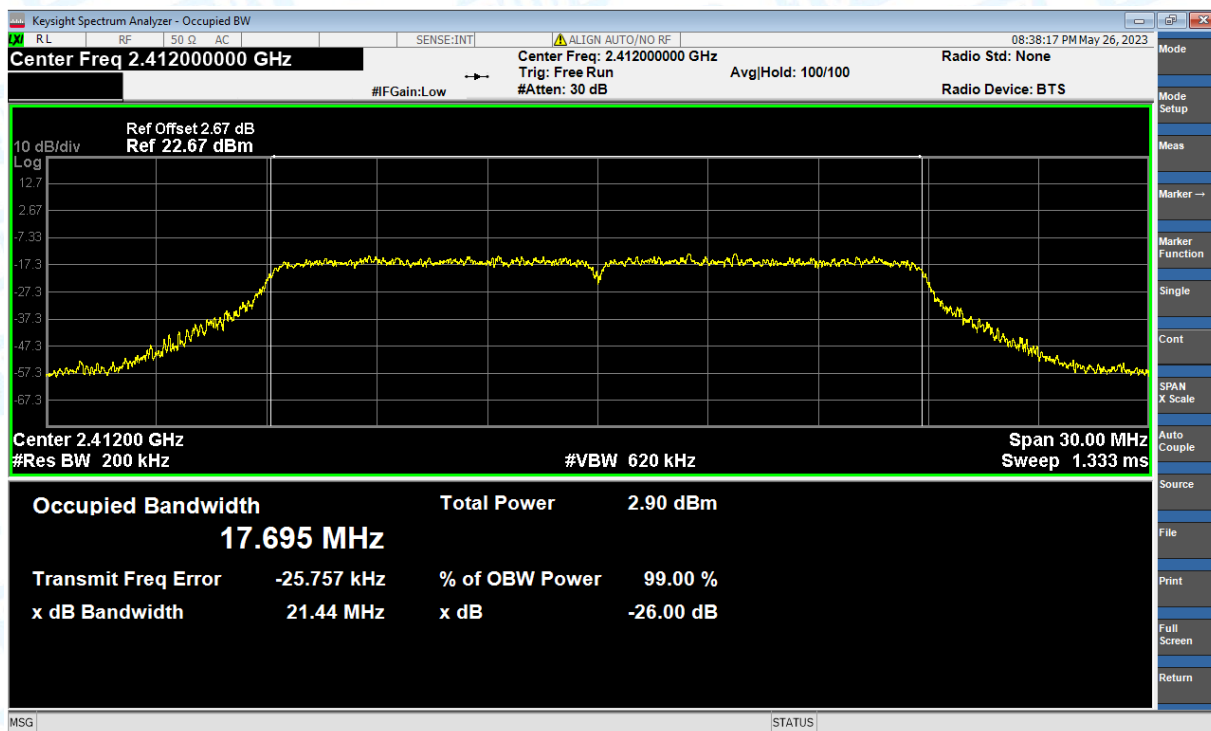
OBW NVNT g 2437MHz Ant1



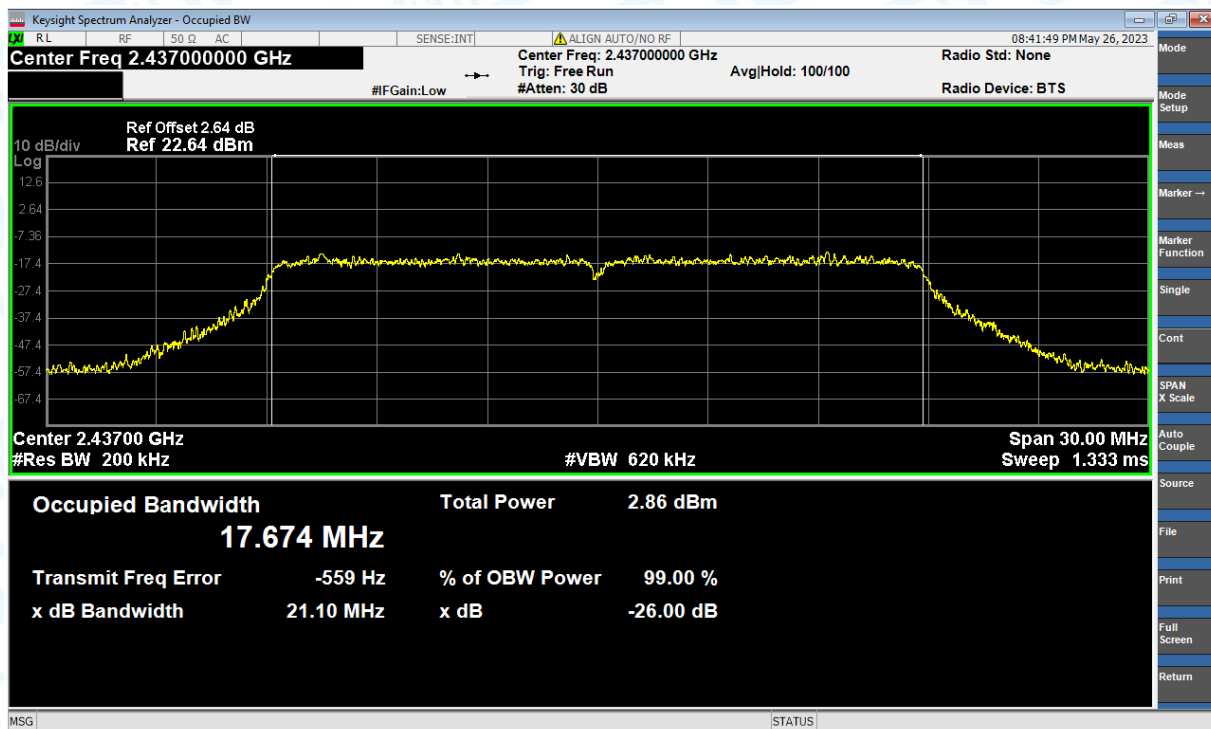
OBW NVNT g 2462MHz Ant1



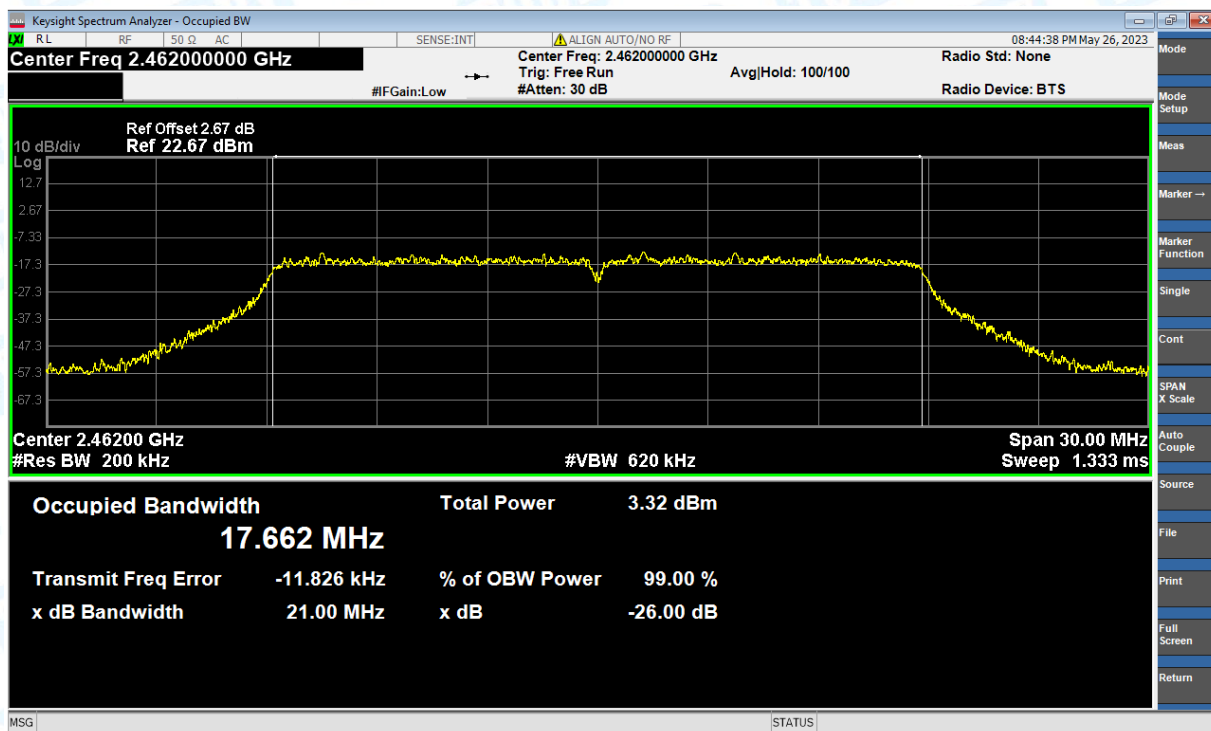
OBW NVNT n(HT20) 2412MHz Ant1



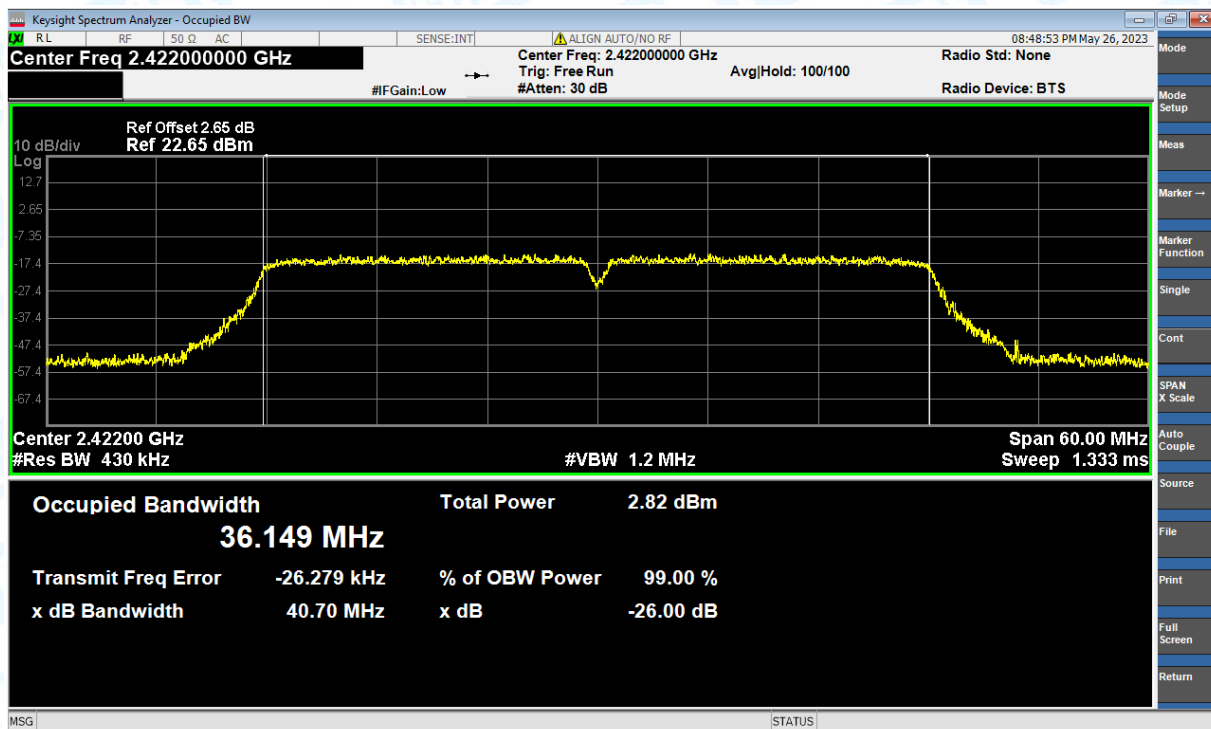
OBW NVNT n(HT20) 2437MHz Ant1



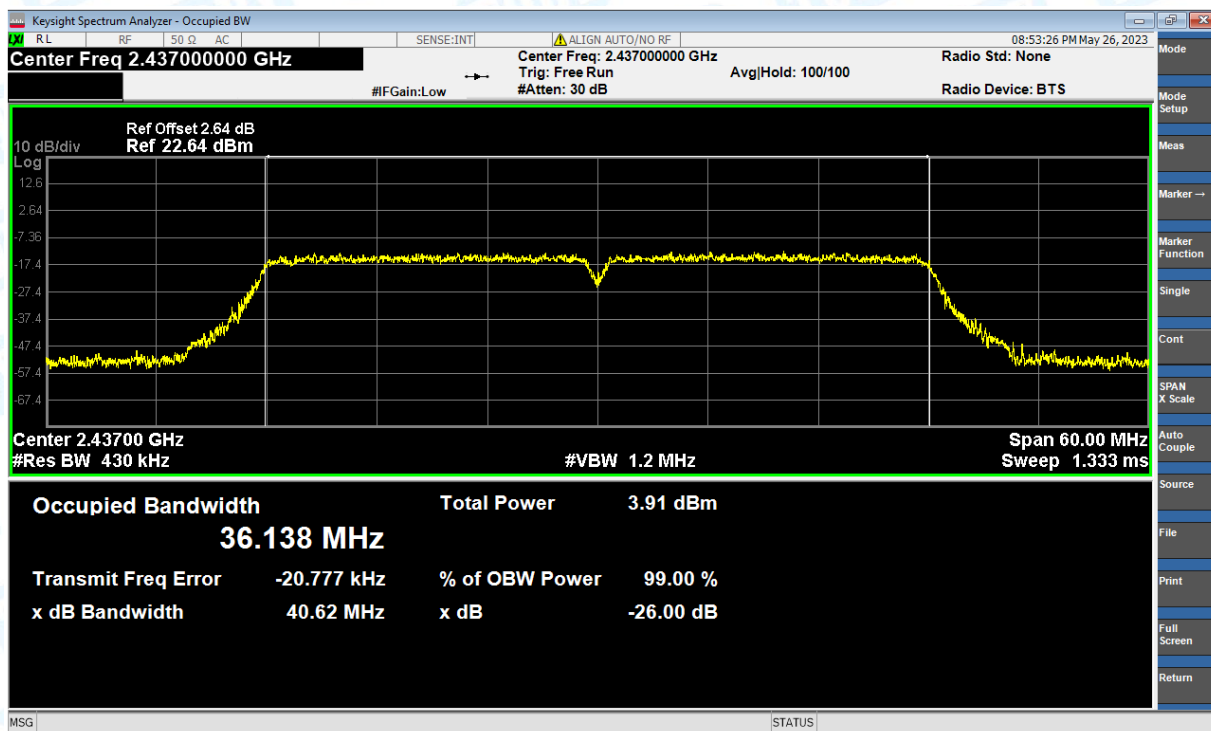
OBW NVNT n(HT20) 2462MHz Ant1



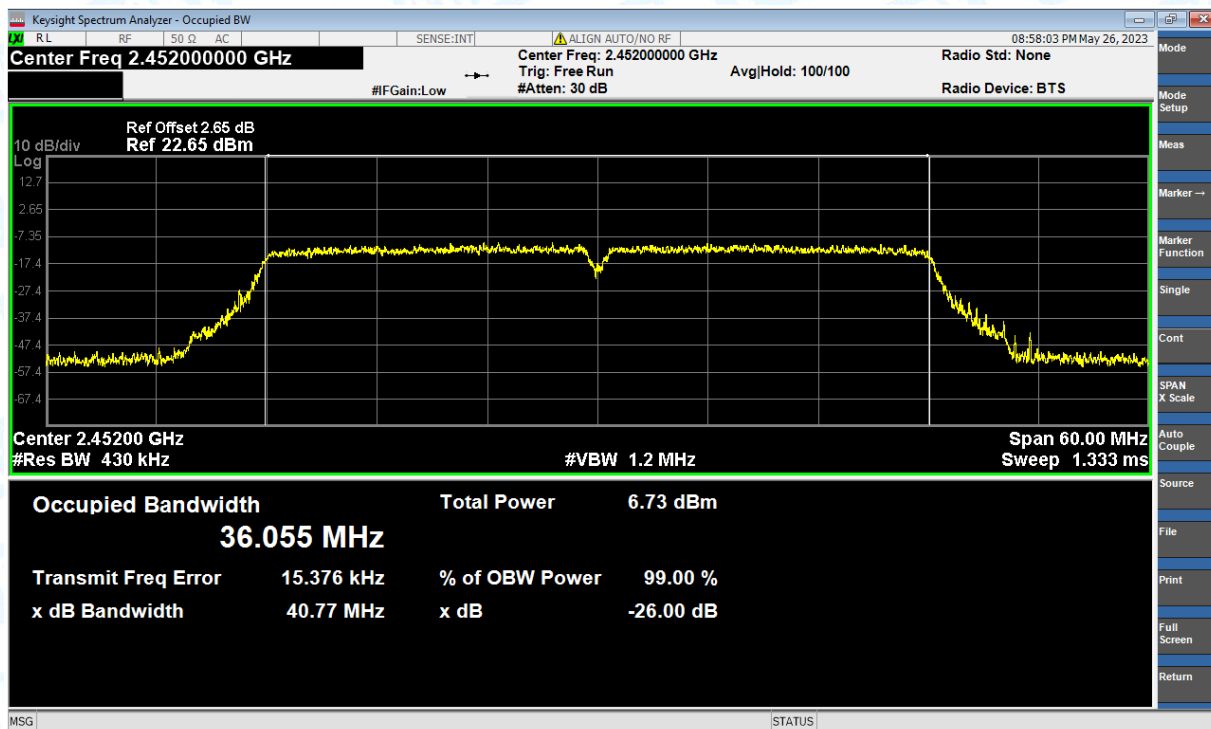
OBW NVNT n(HT40) 2422MHz Ant1



OBW NVNT n(HT40) 2437MHz Ant1



OBW NVNT n(HT40) 2452MHz Ant1

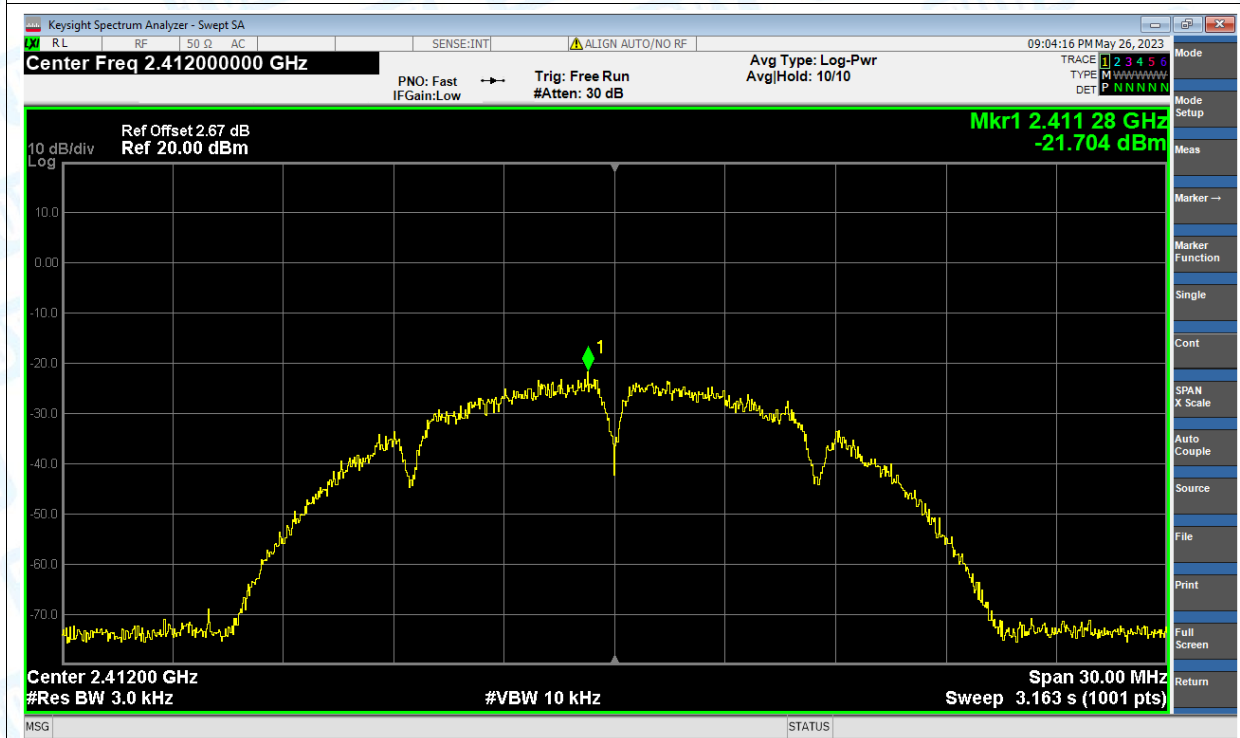


5. Maximum Power Spectral Density Level

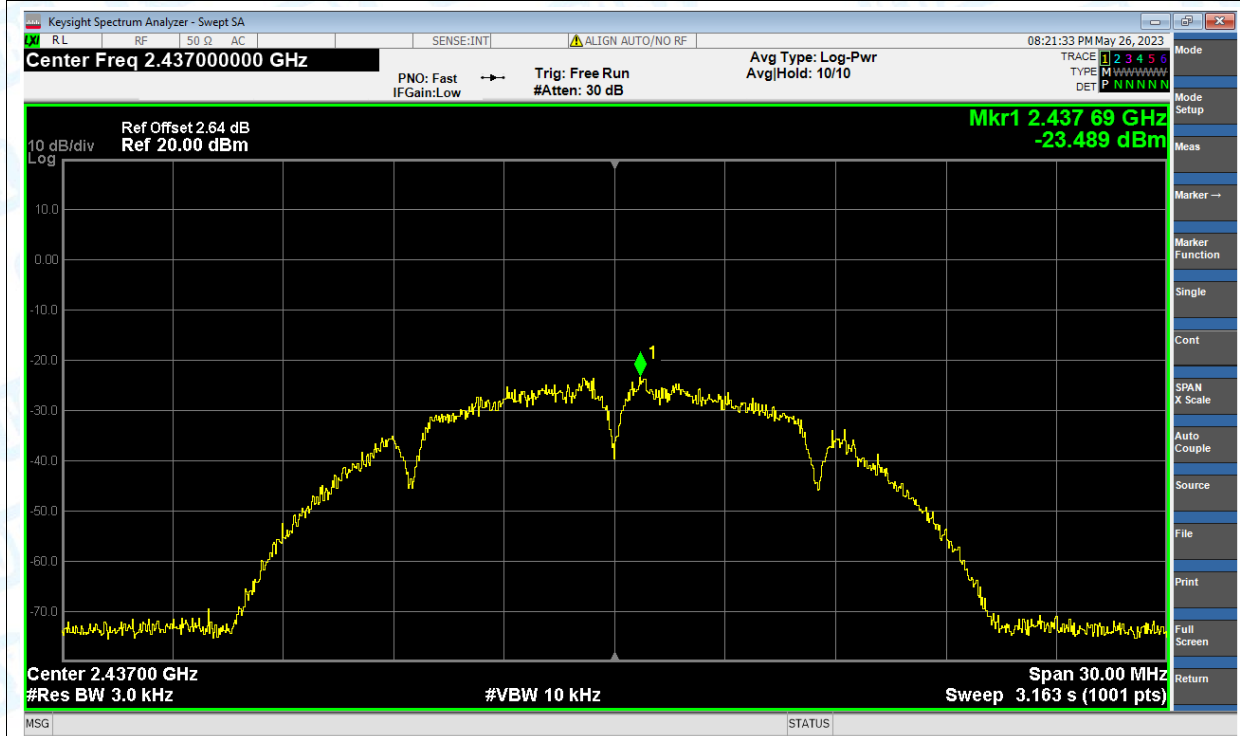
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-21.704	8	Pass
NVNT	b	2437	Ant1	-23.489	8	Pass
NVNT	b	2462	Ant1	-22.931	8	Pass
NVNT	g	2412	Ant1	-27.768	8	Pass
NVNT	g	2437	Ant1	-27.796	8	Pass
NVNT	g	2462	Ant1	-27.142	8	Pass
NVNT	n(HT20)	2412	Ant1	-28.127	8	Pass
NVNT	n(HT20)	2437	Ant1	-28.171	8	Pass
NVNT	n(HT20)	2462	Ant1	-28.106	8	Pass
NVNT	n(HT40)	2422	Ant1	-30.352	8	Pass
NVNT	n(HT40)	2437	Ant1	-30.056	8	Pass
NVNT	n(HT40)	2452	Ant1	-26.299	8	Pass

Test Graphs

PSD NVNT b 2412MHz Ant1



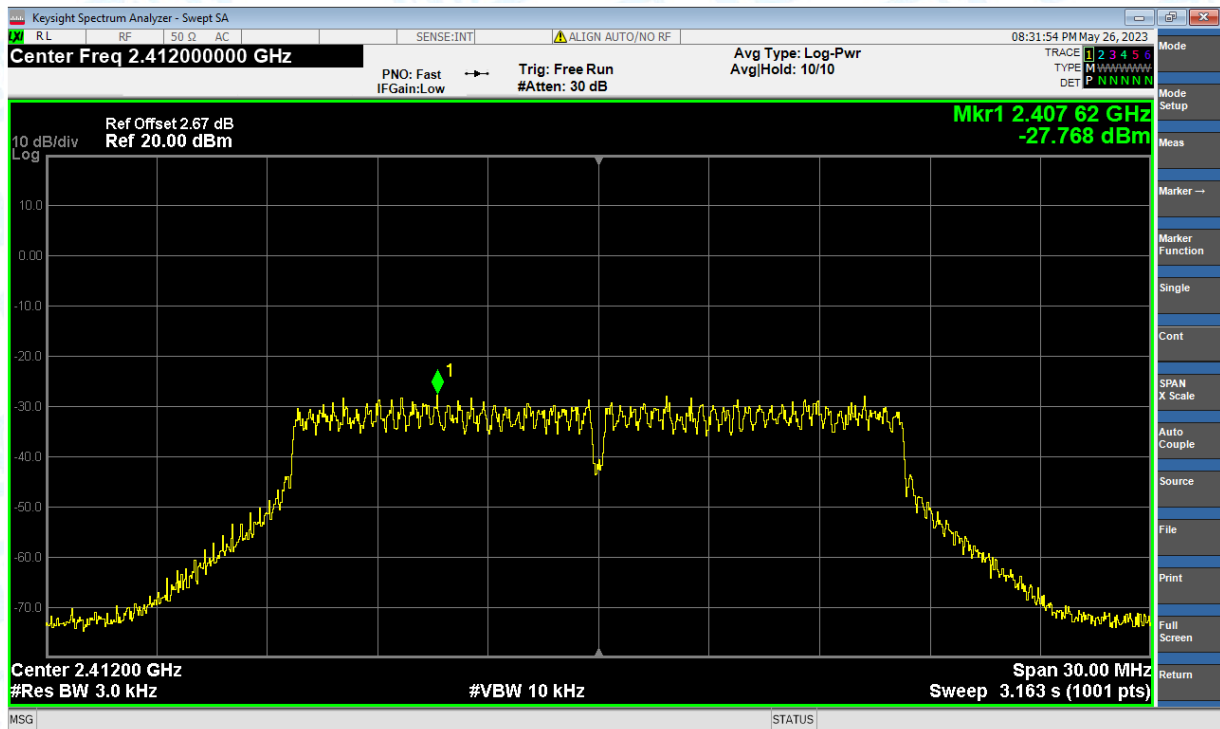
PSD NVNT b 2437MHz Ant1



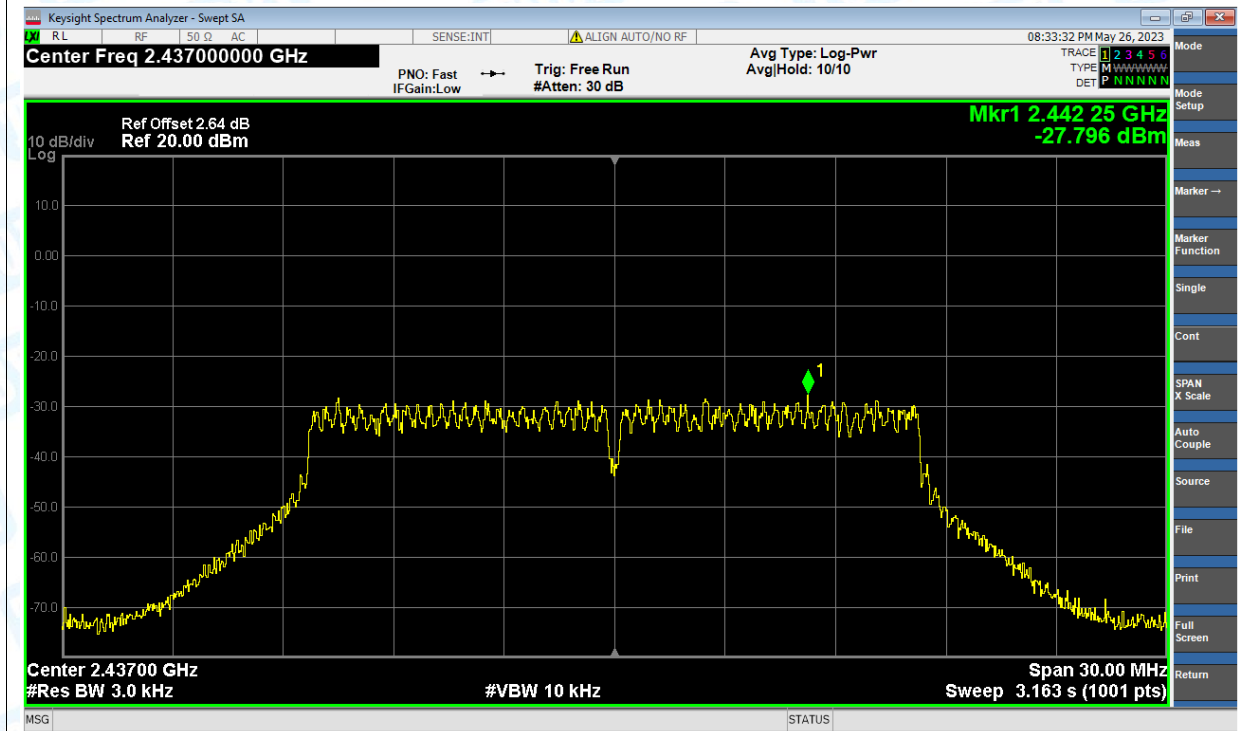
PSD NVNT b 2462MHz Ant1



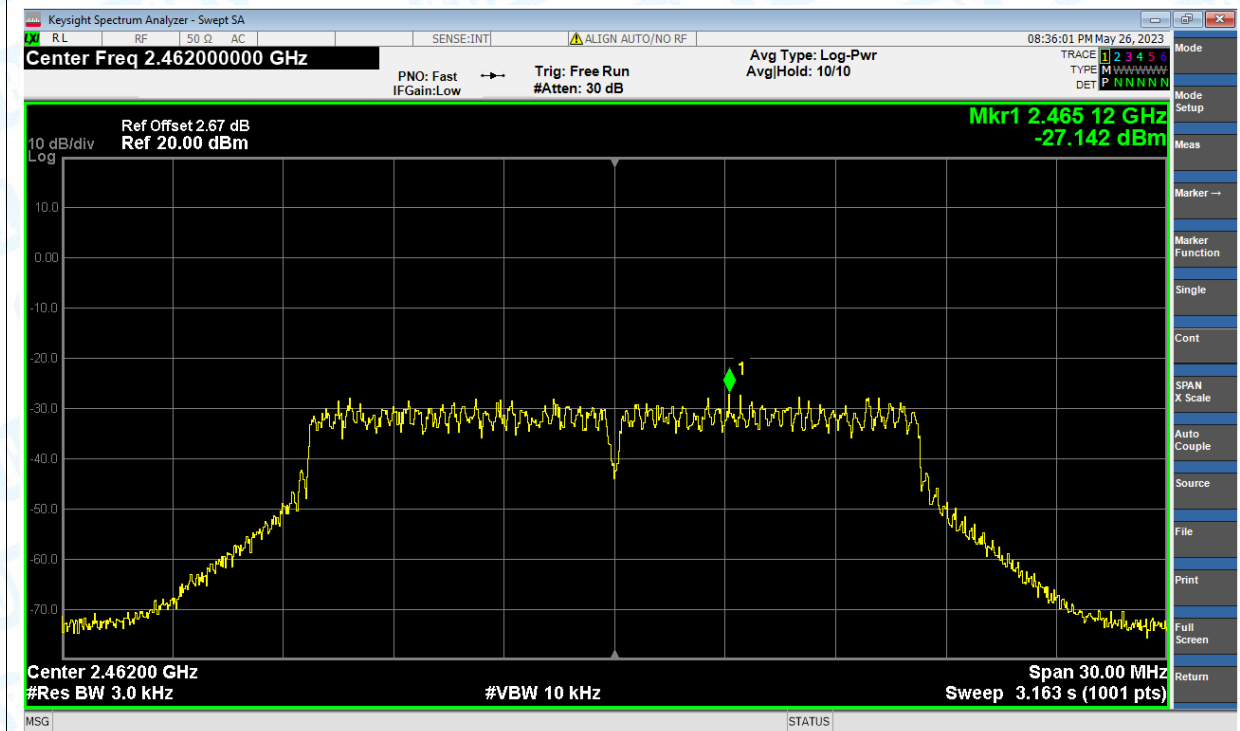
PSD NVNT g 2412MHz Ant1



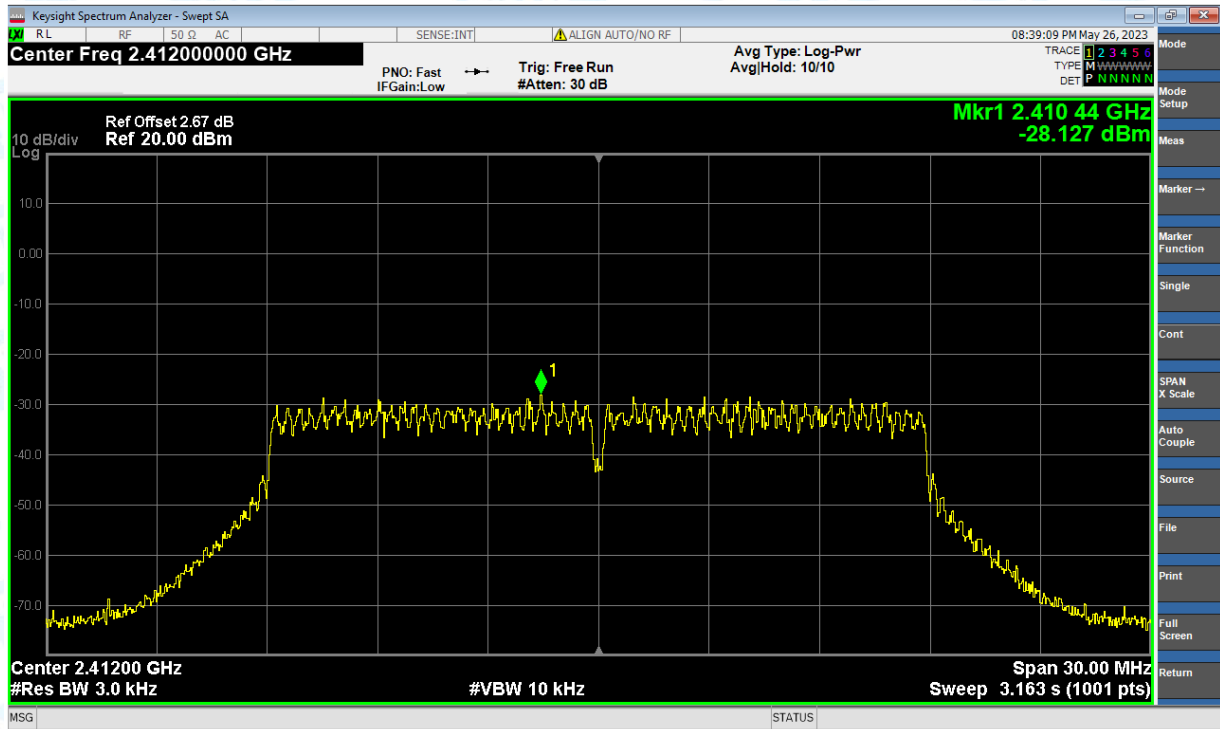
PSD NVNT g 2437MHz Ant1



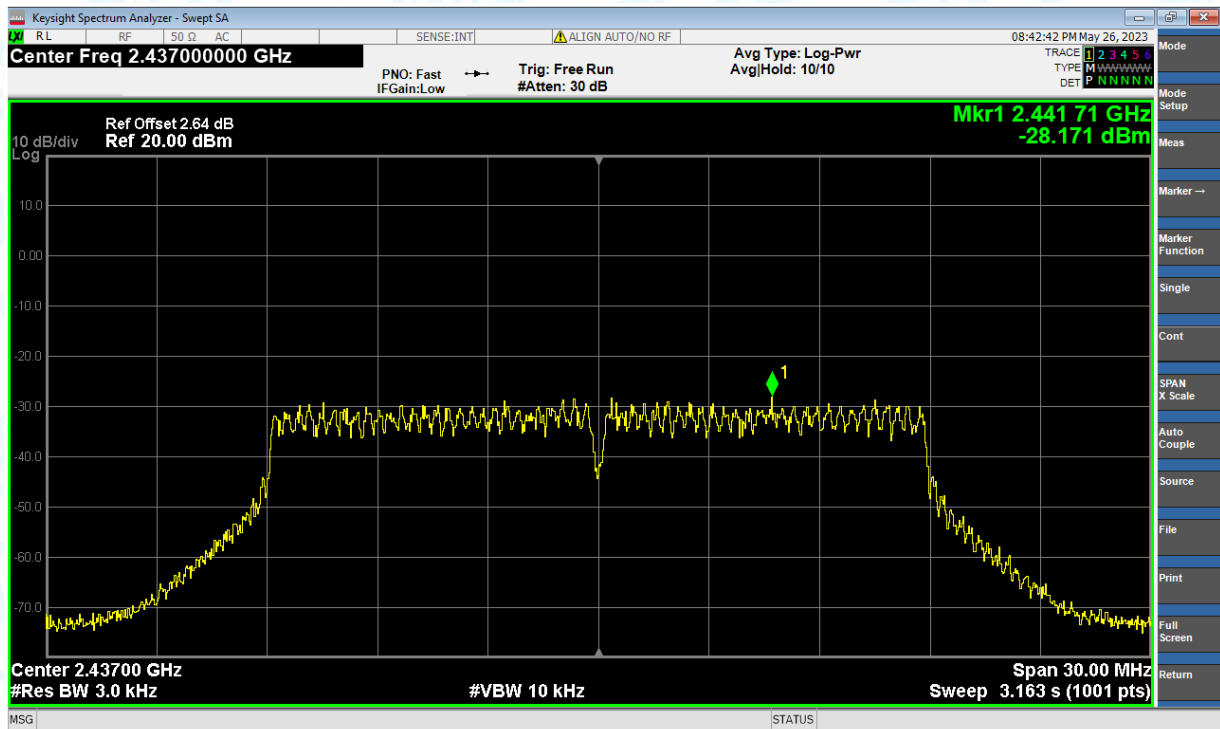
PSD NVNT g 2462MHz Ant1



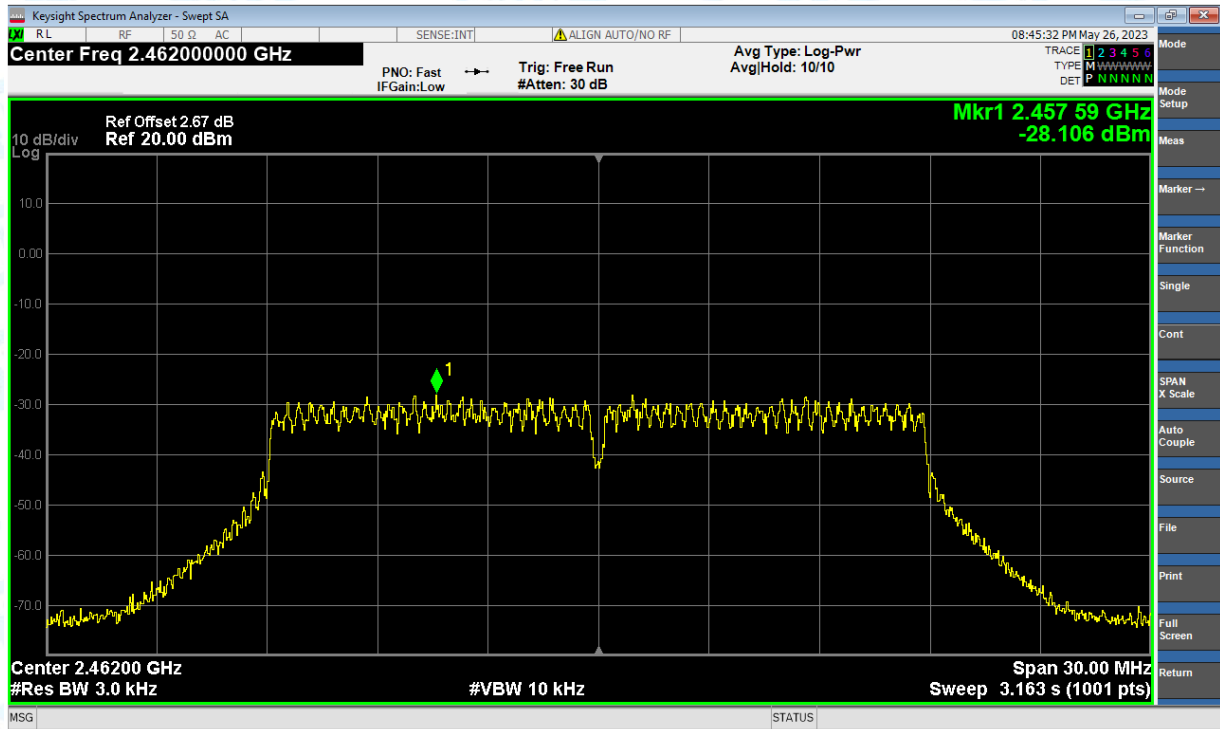
PSD NVNT n(HT20) 2412MHz Ant1



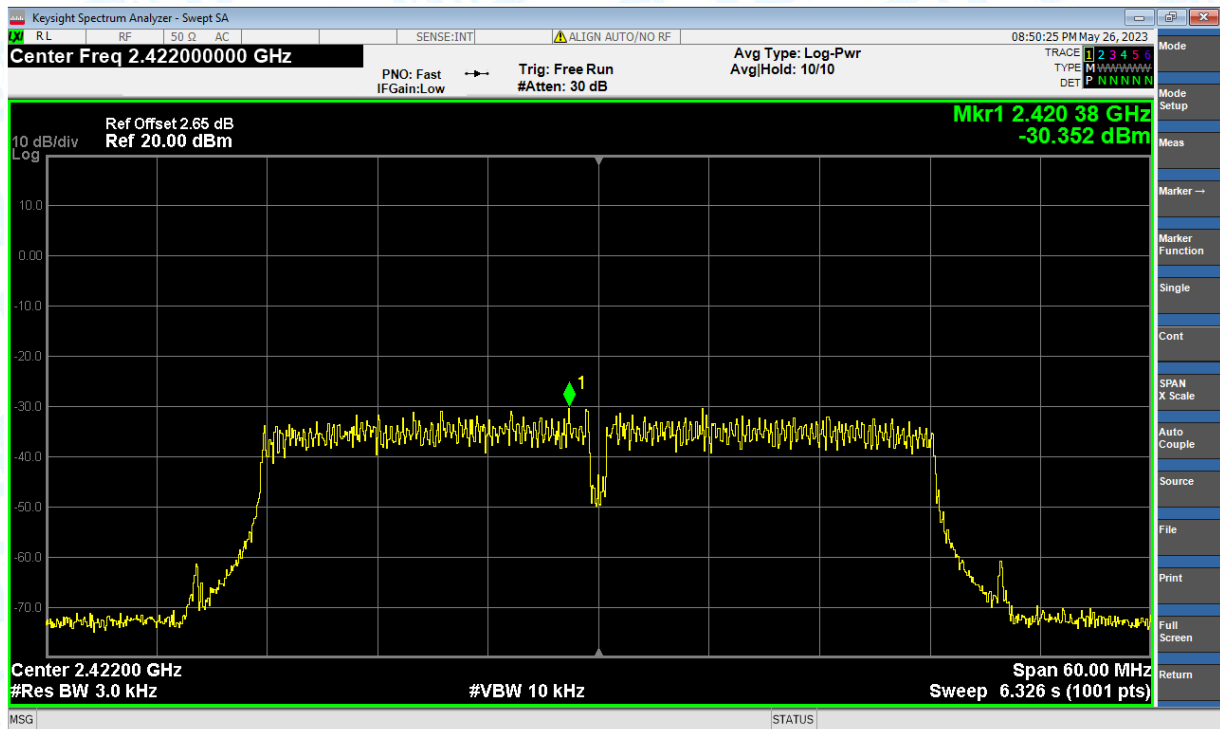
PSD NVNT n(HT20) 2437MHz Ant1



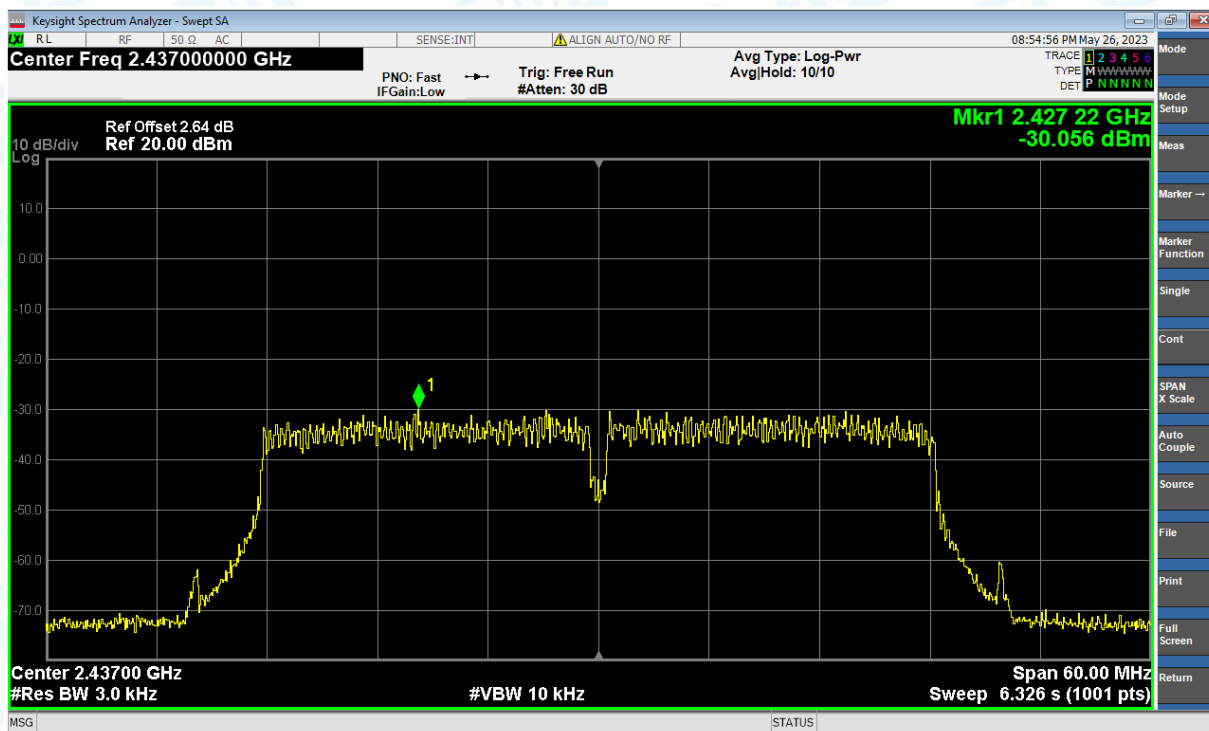
PSD NVNT n(HT20) 2462MHz Ant1



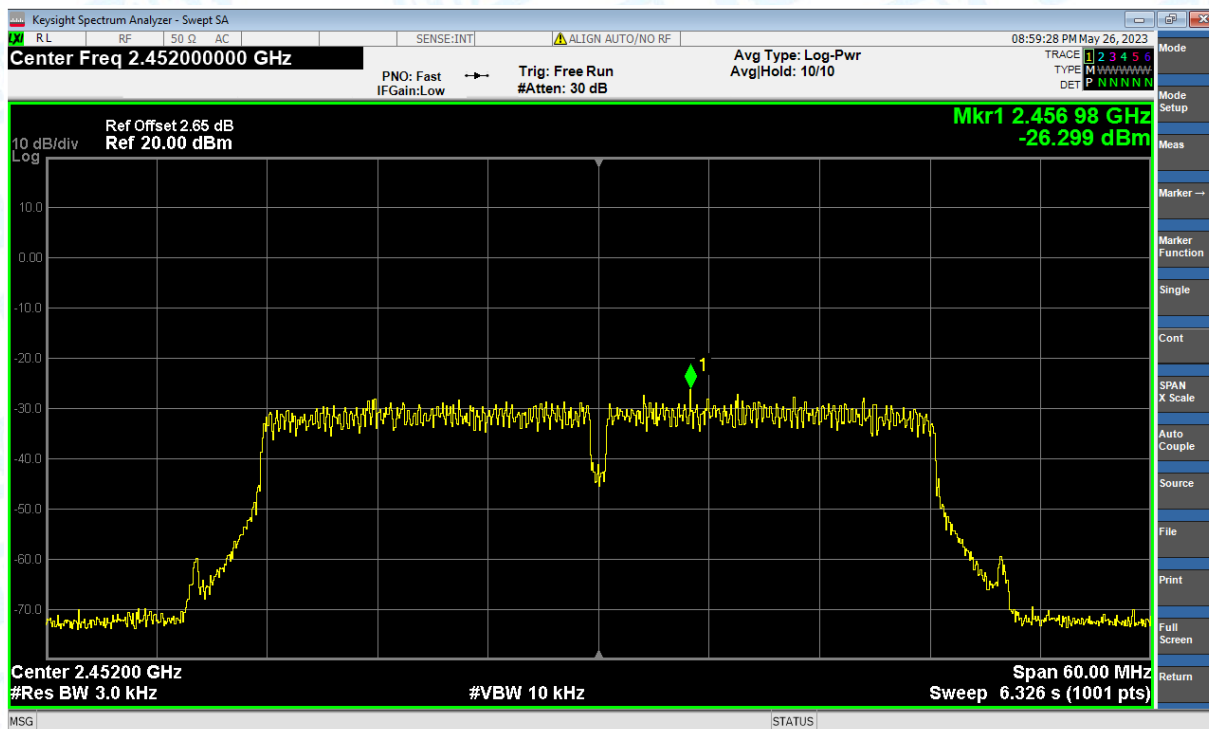
PSD NVNT n(HT40) 2422MHz Ant1



PSD NVNT n(HT40) 2437MHz Ant1



PSD NVNT n(HT40) 2452MHz Ant1

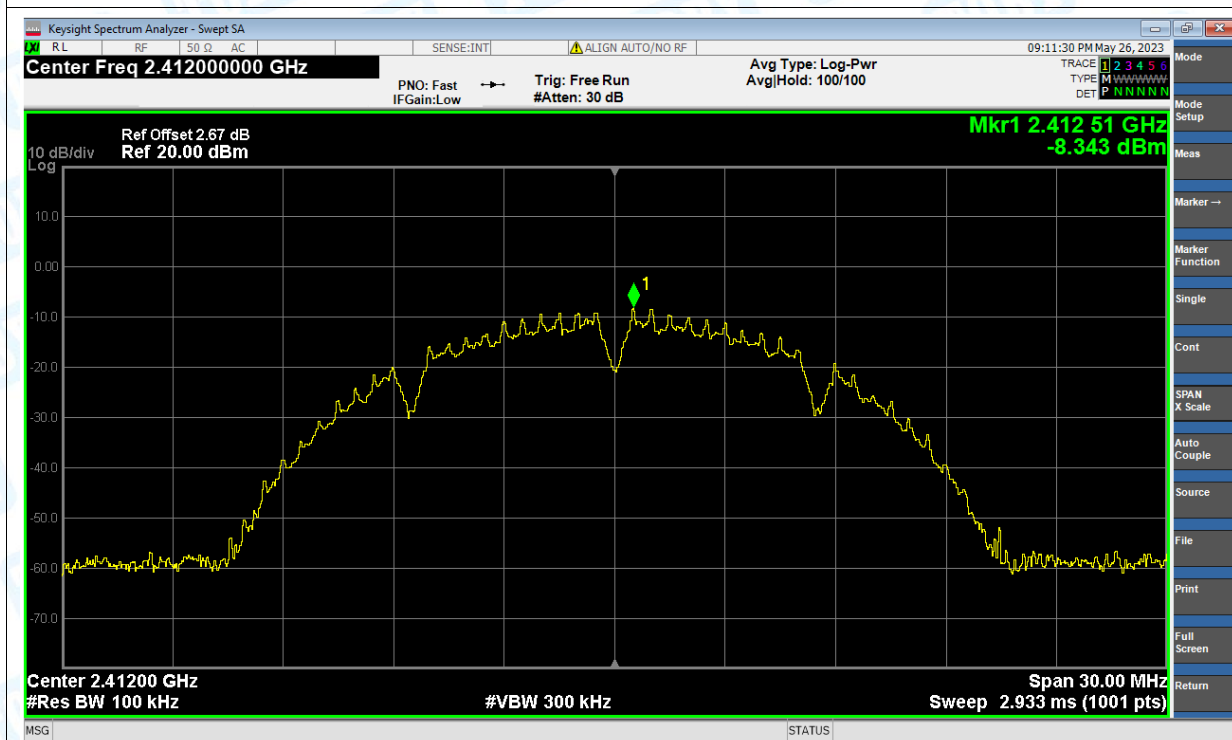


6. Band Edge

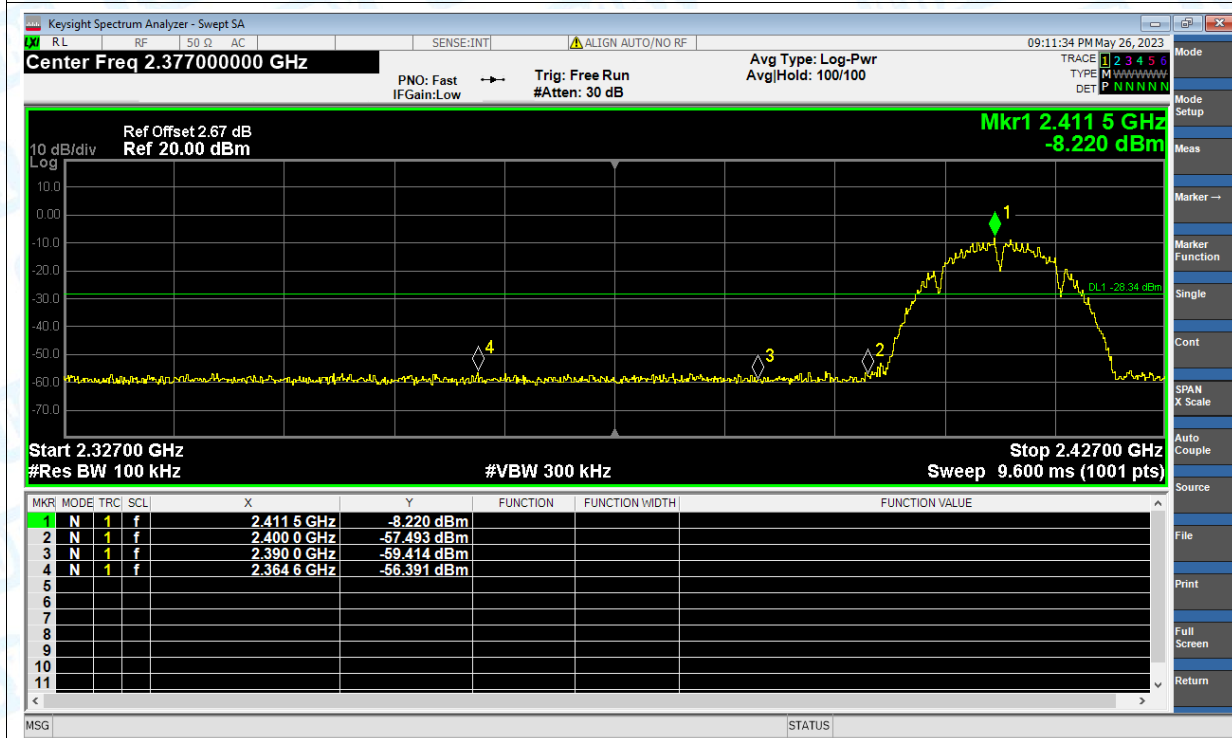
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-48.05	-20	Pass
NVNT	b	2462	Ant1	-47.6	-20	Pass
NVNT	g	2412	Ant1	-43.97	-20	Pass
NVNT	g	2462	Ant1	-44.64	-20	Pass
NVNT	n(HT20)	2412	Ant1	-43.2	-20	Pass
NVNT	n(HT20)	2462	Ant1	-43.83	-20	Pass
NVNT	n(HT40)	2422	Ant1	-40.2	-20	Pass
NVNT	n(HT40)	2452	Ant1	-40.64	-20	Pass

Test Graphs

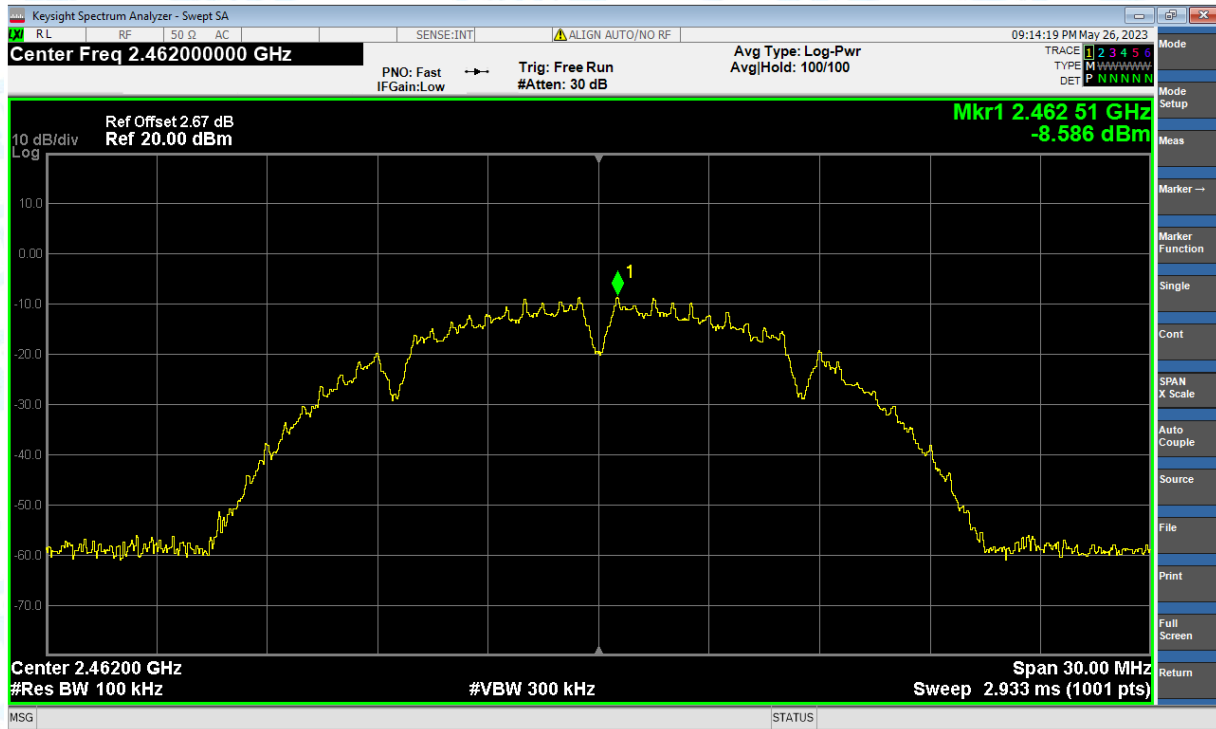
Band Edge NVNT b 2412MHz Ant1 Ref



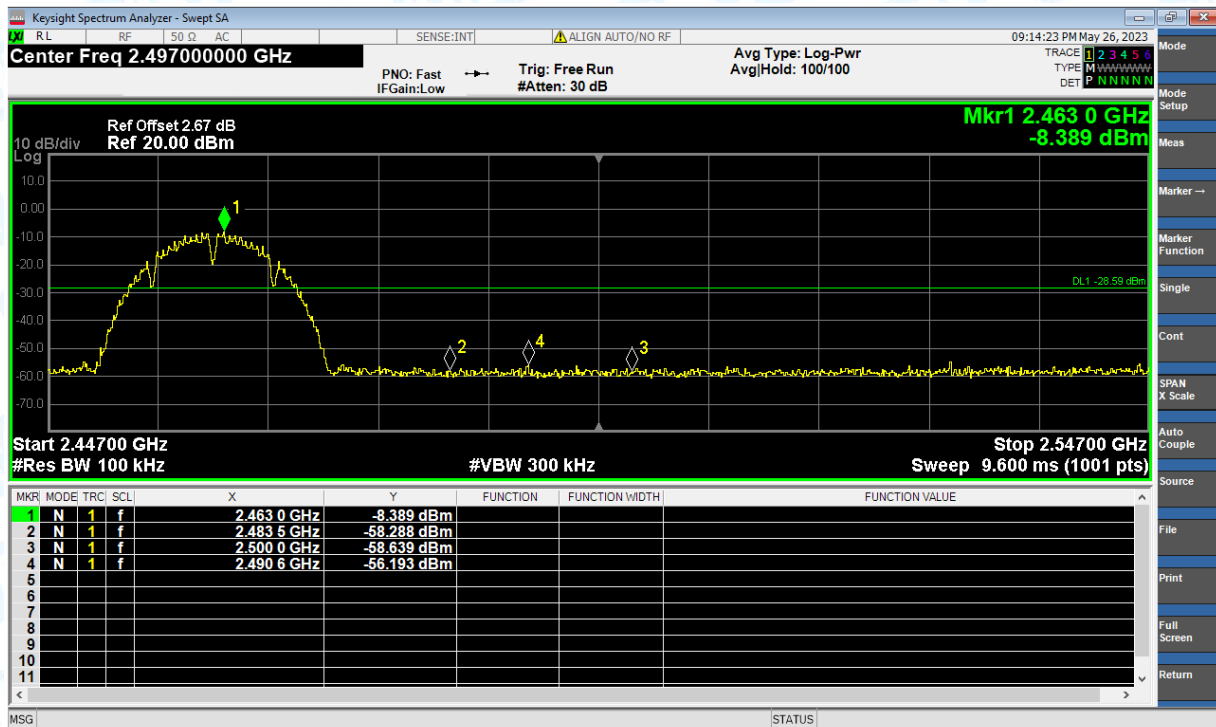
Band Edge NVNT b 2412MHz Ant1 Emission

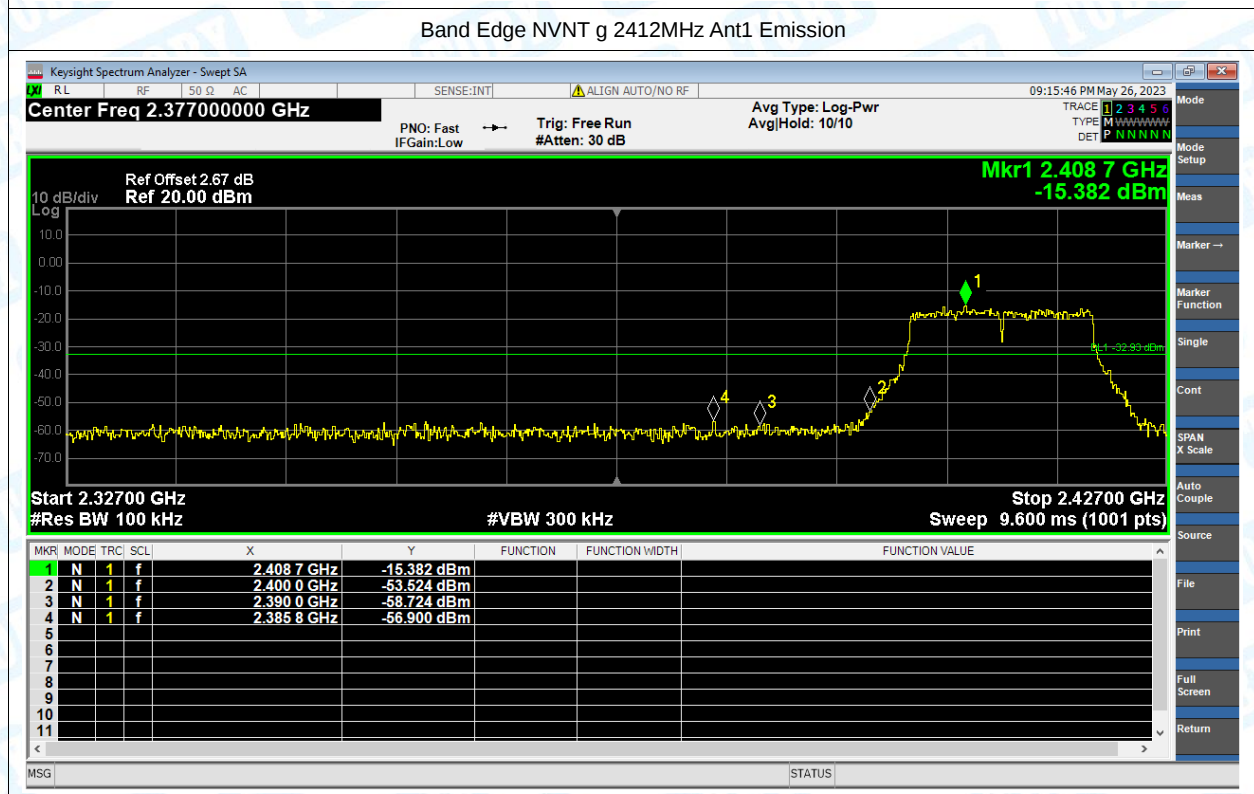


Band Edge NVNT b 2462MHz Ant1 Ref

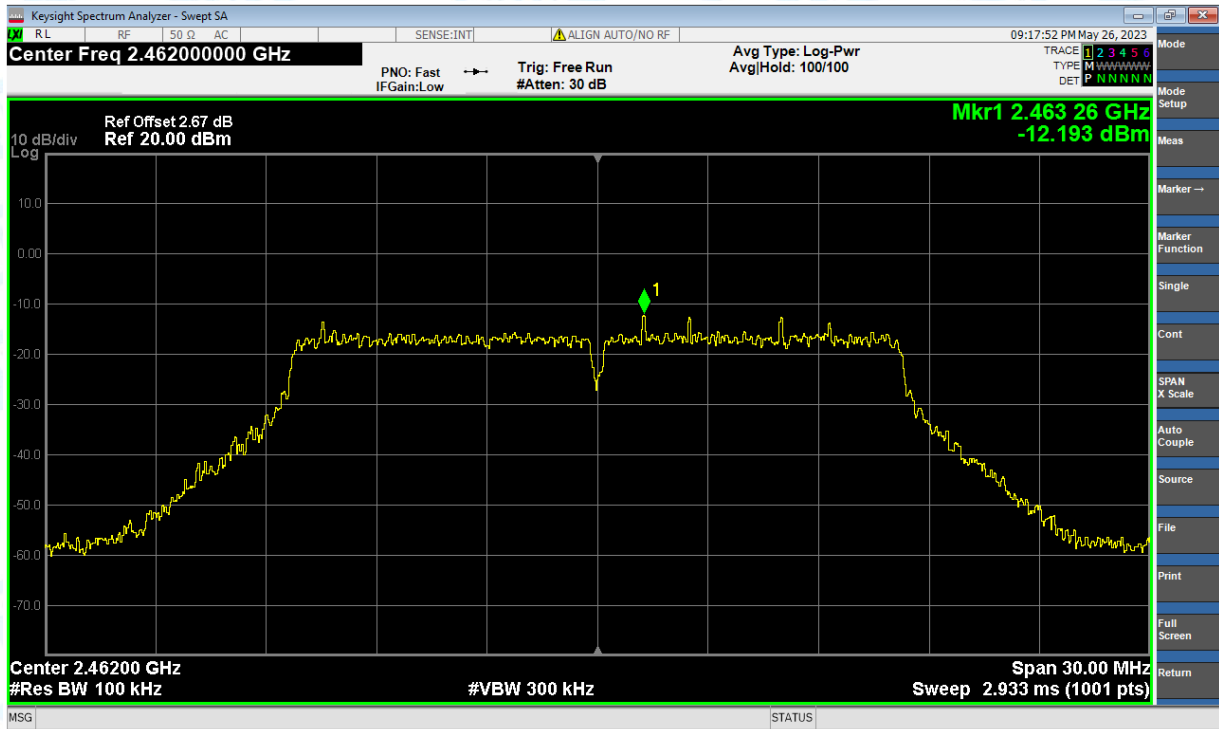


Band Edge NVNT b 2462MHz Ant1 Emission

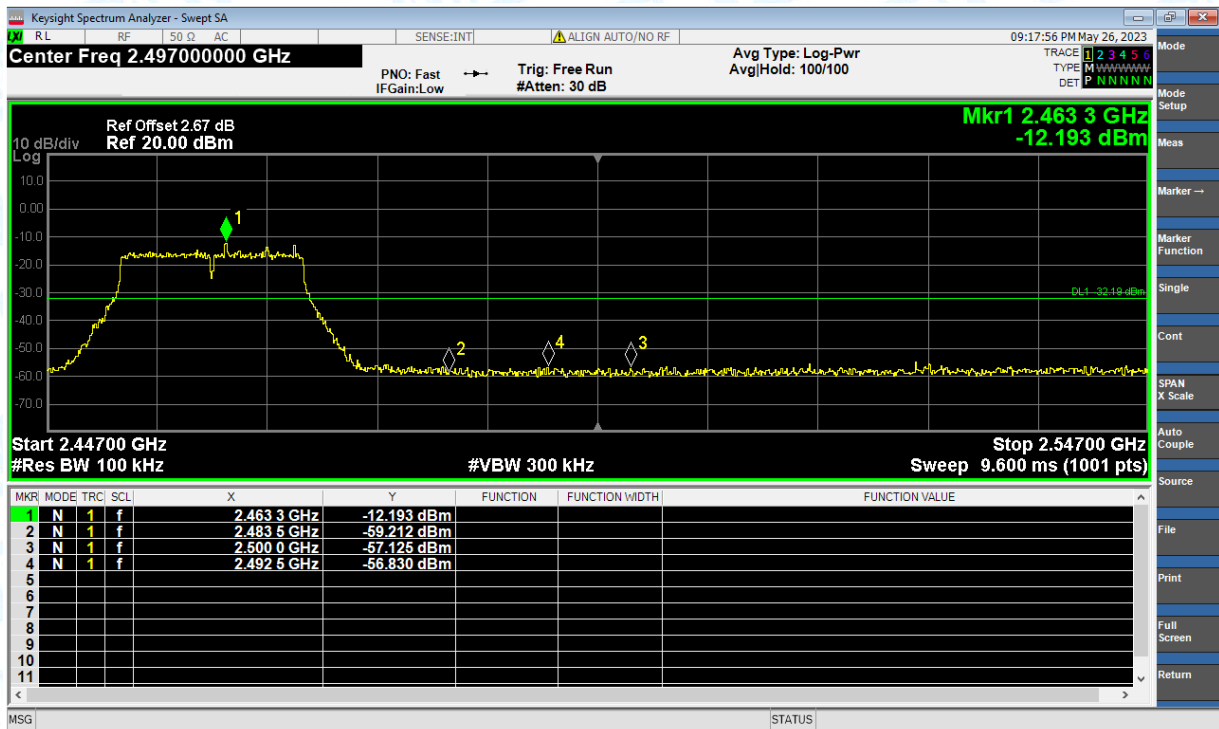




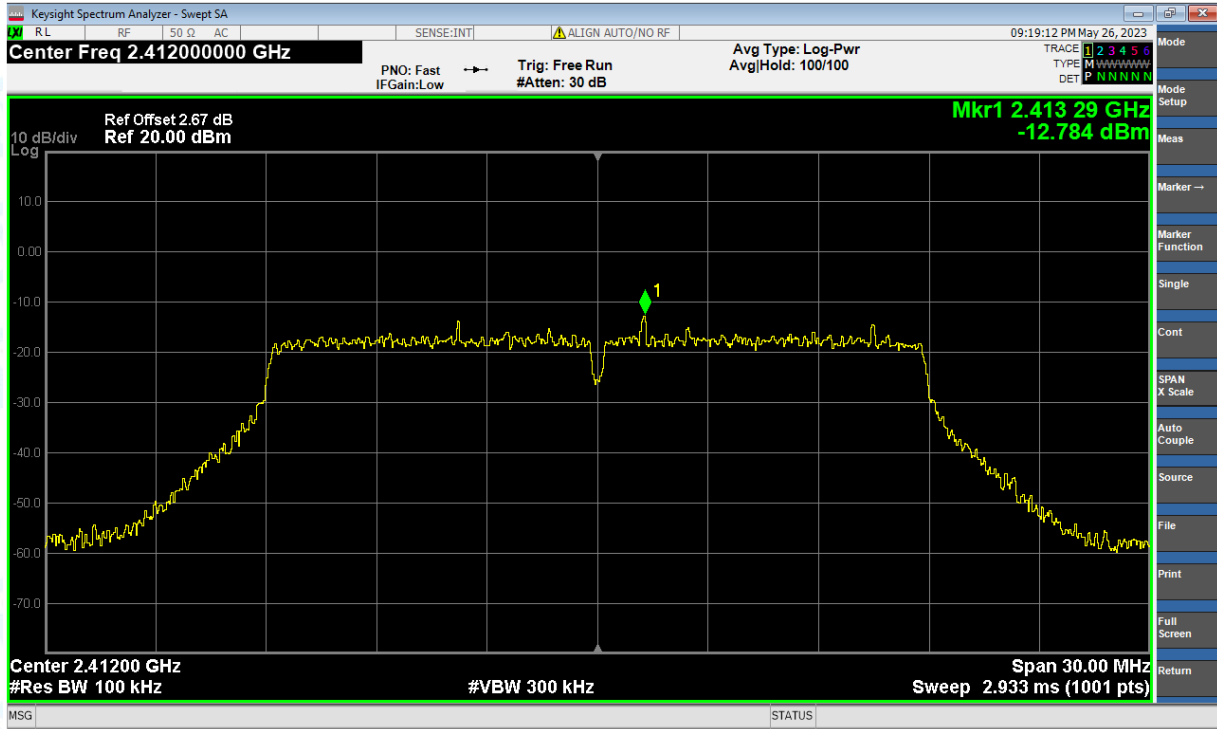
Band Edge NVNT g 2462MHz Ant1 Ref



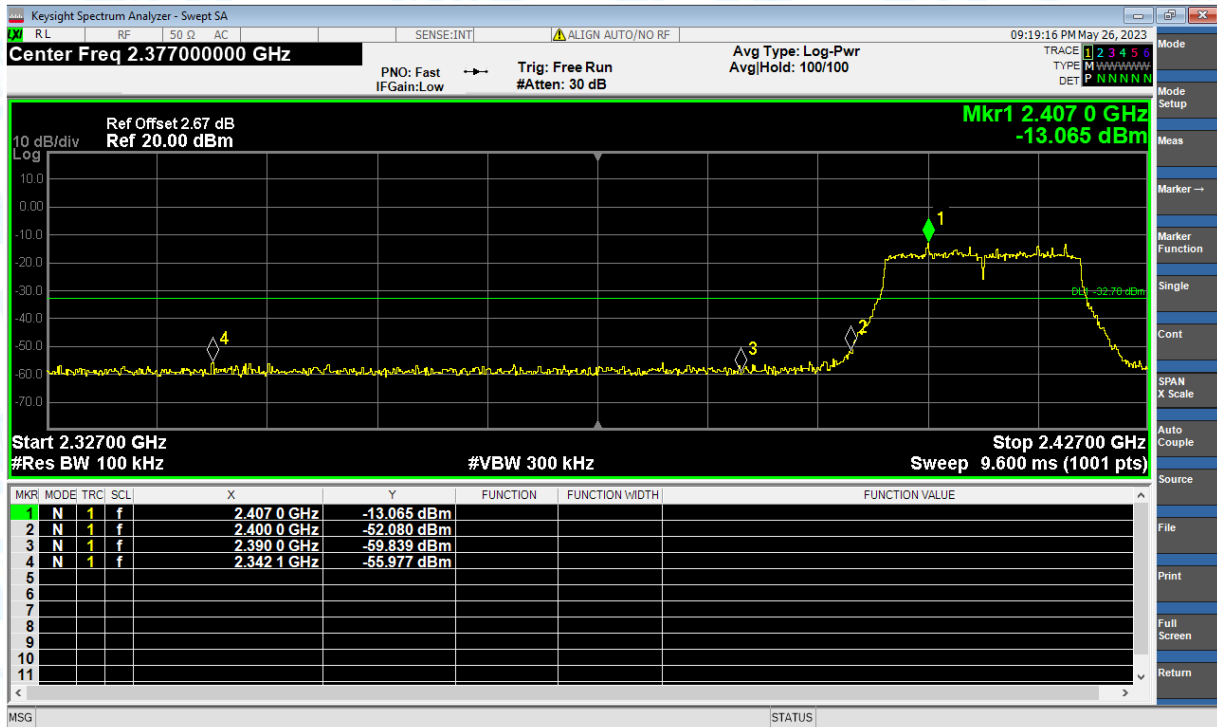
Band Edge NVNT g 2462MHz Ant1 Emission



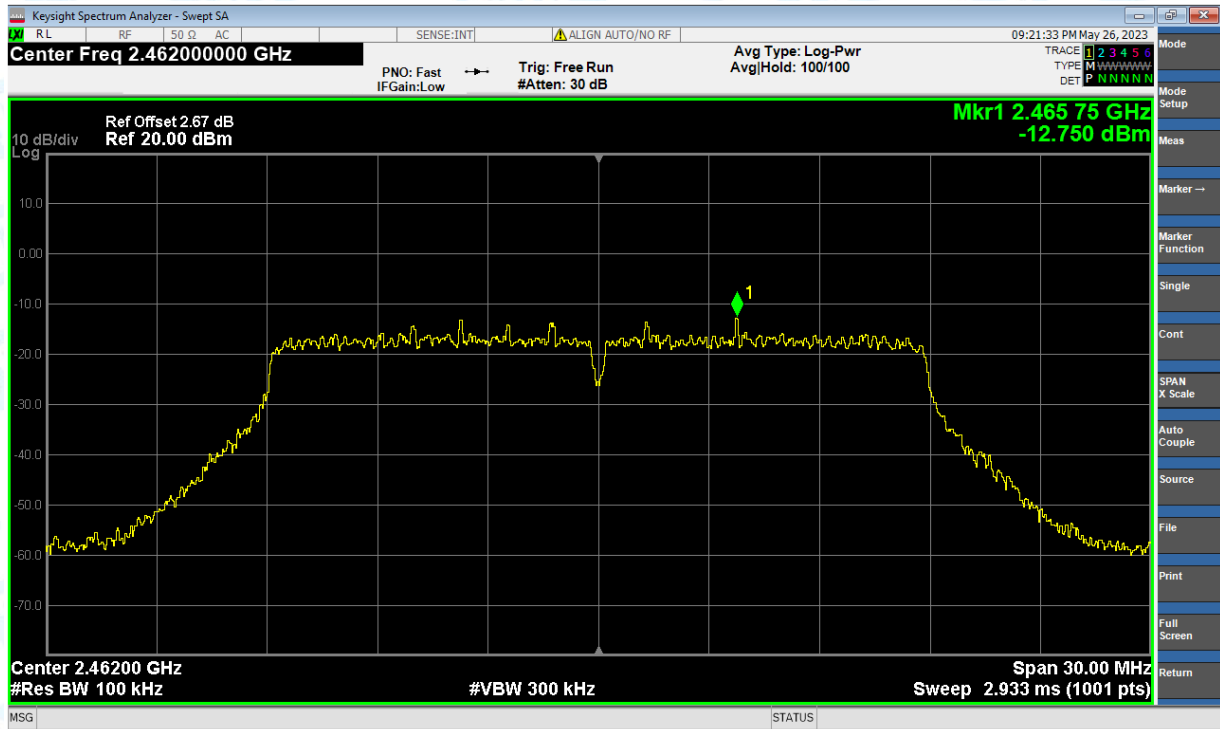
Band Edge NVNT n(HT20) 2412MHz Ant1 Ref



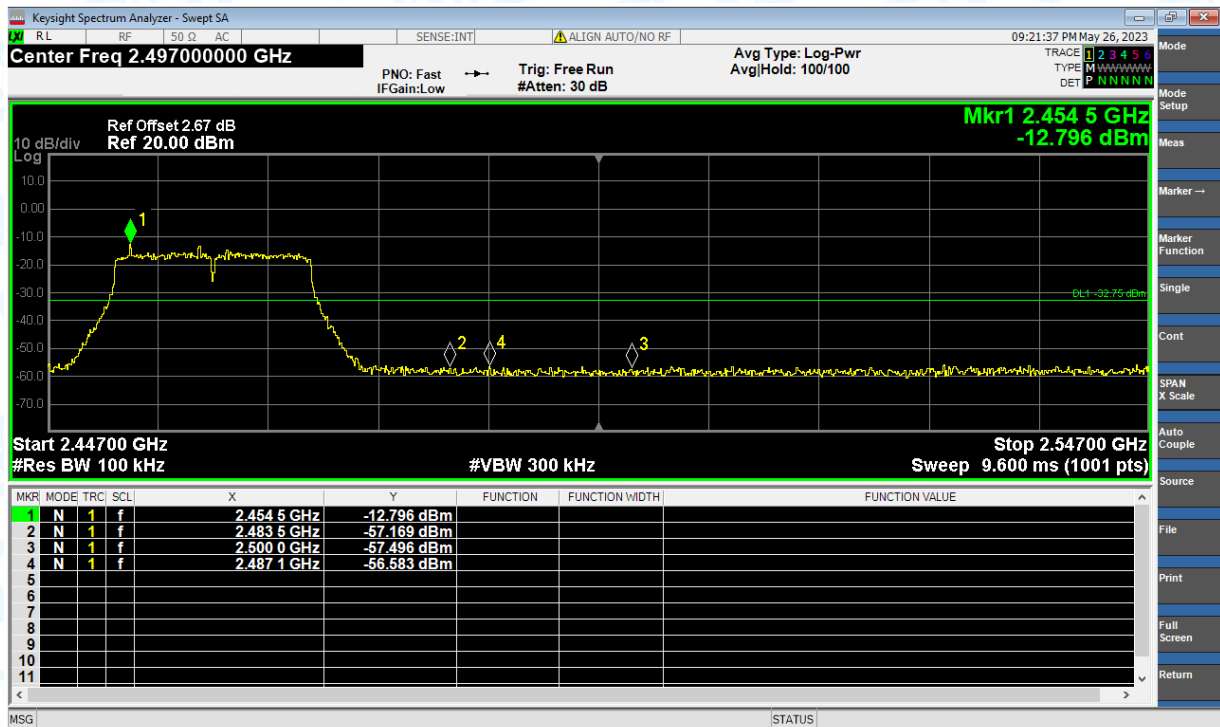
Band Edge NVNT n(HT20) 2412MHz Ant1 Emission



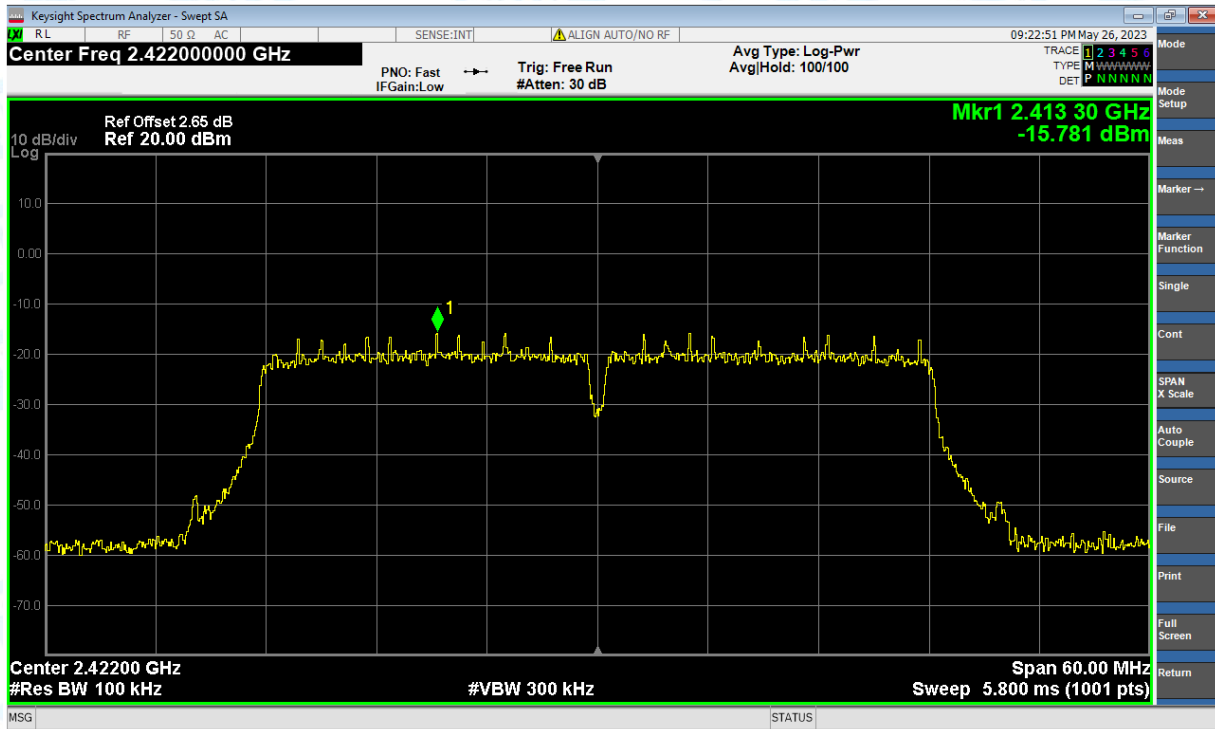
Band Edge NVNT n(HT20) 2462MHz Ant1 Ref



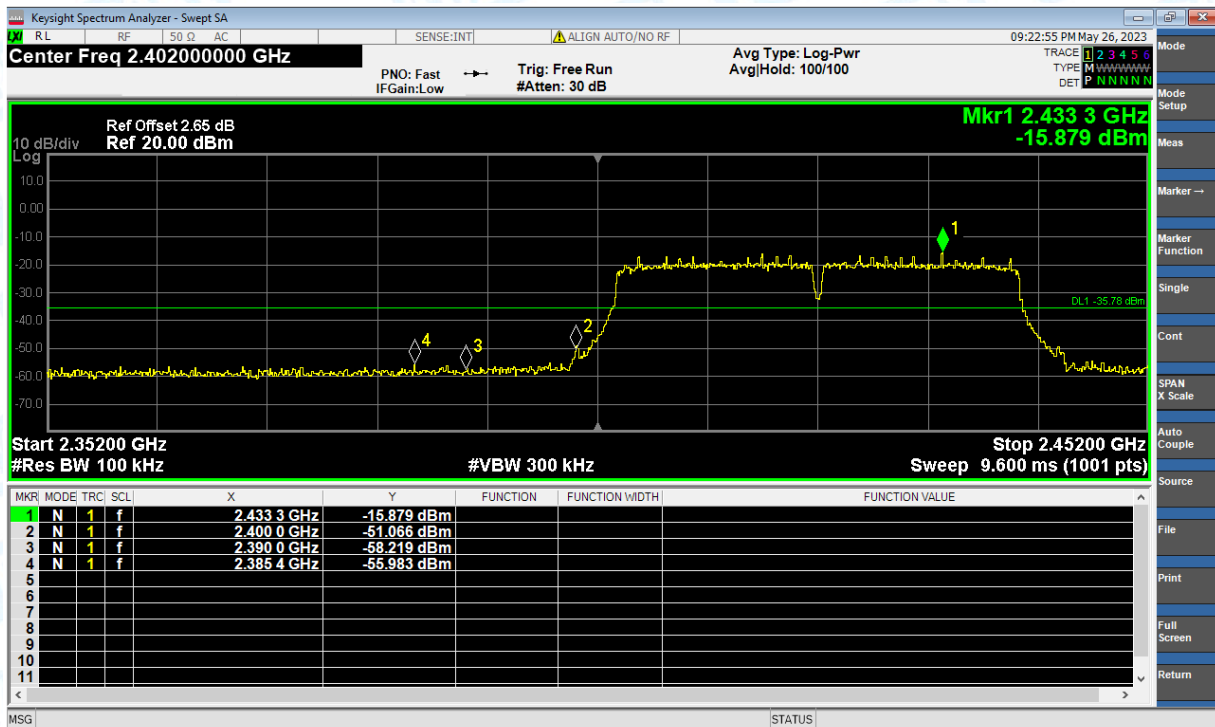
Band Edge NVNT n(HT20) 2462MHz Ant1 Emission



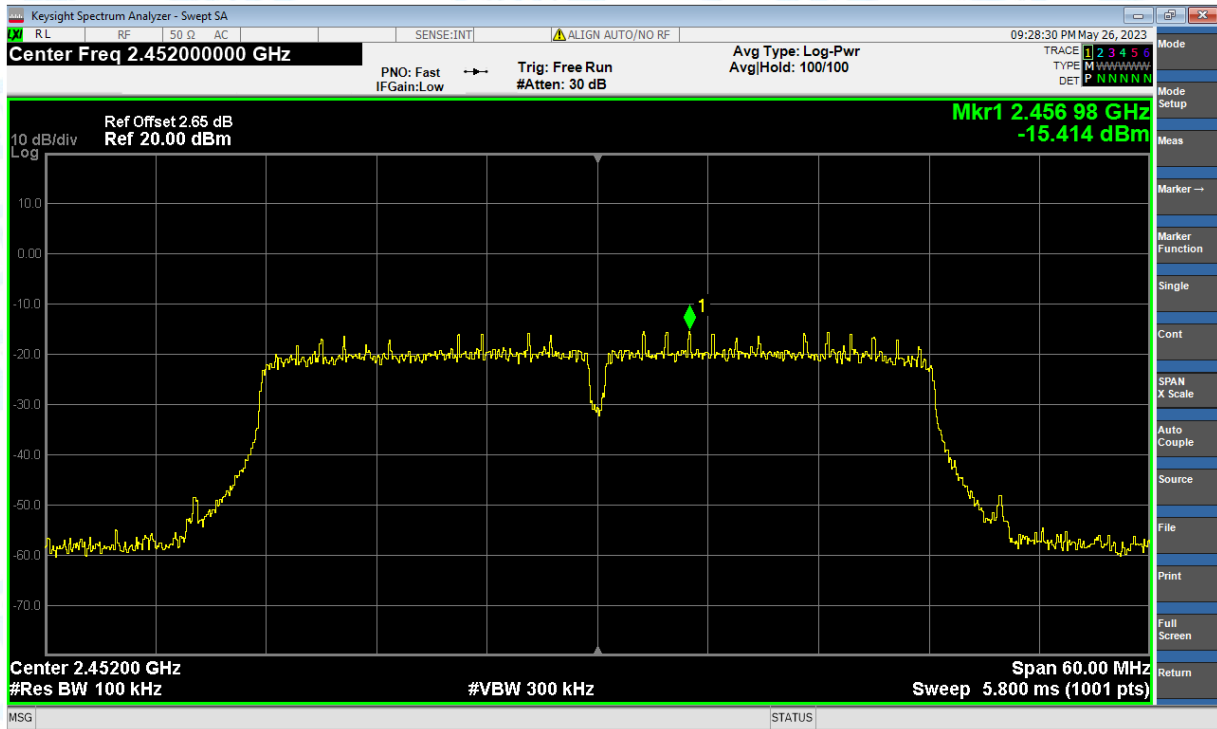
Band Edge NVNT n(HT40) 2422MHz Ant1 Ref



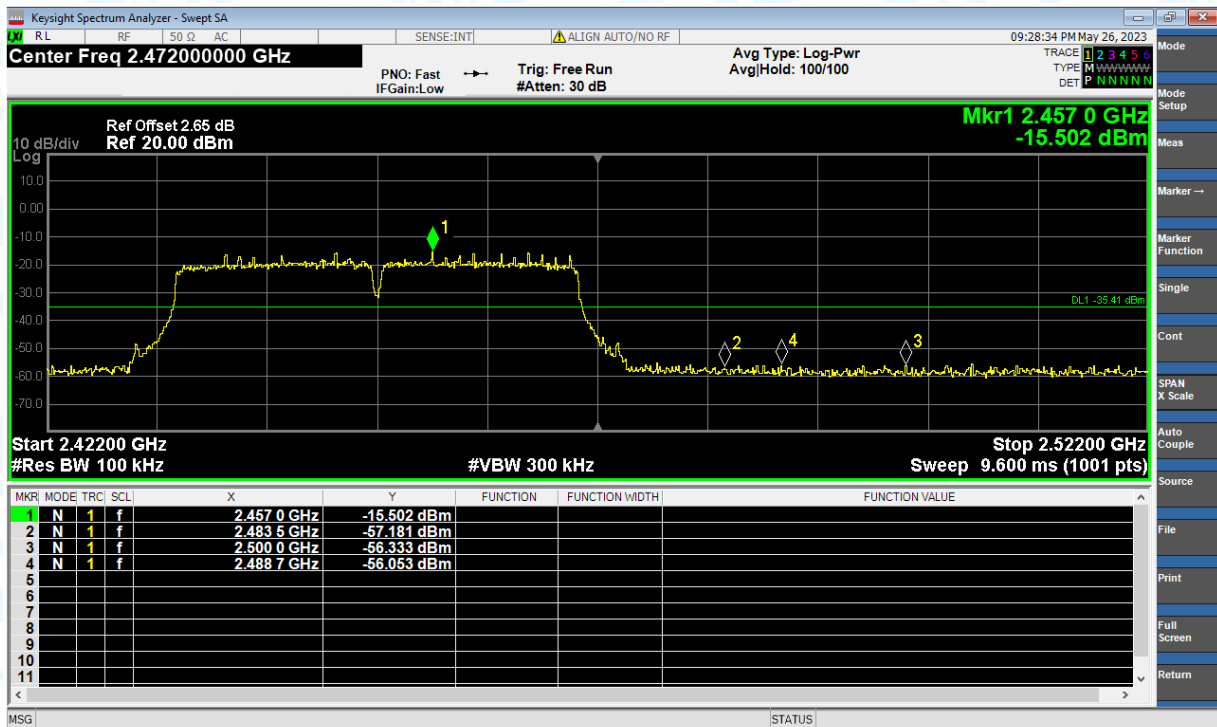
Band Edge NVNT n(HT40) 2422MHz Ant1 Emission



Band Edge NVNT n(HT40) 2452MHz Ant1 Ref



Band Edge NVNT n(HT40) 2452MHz Ant1 Emission

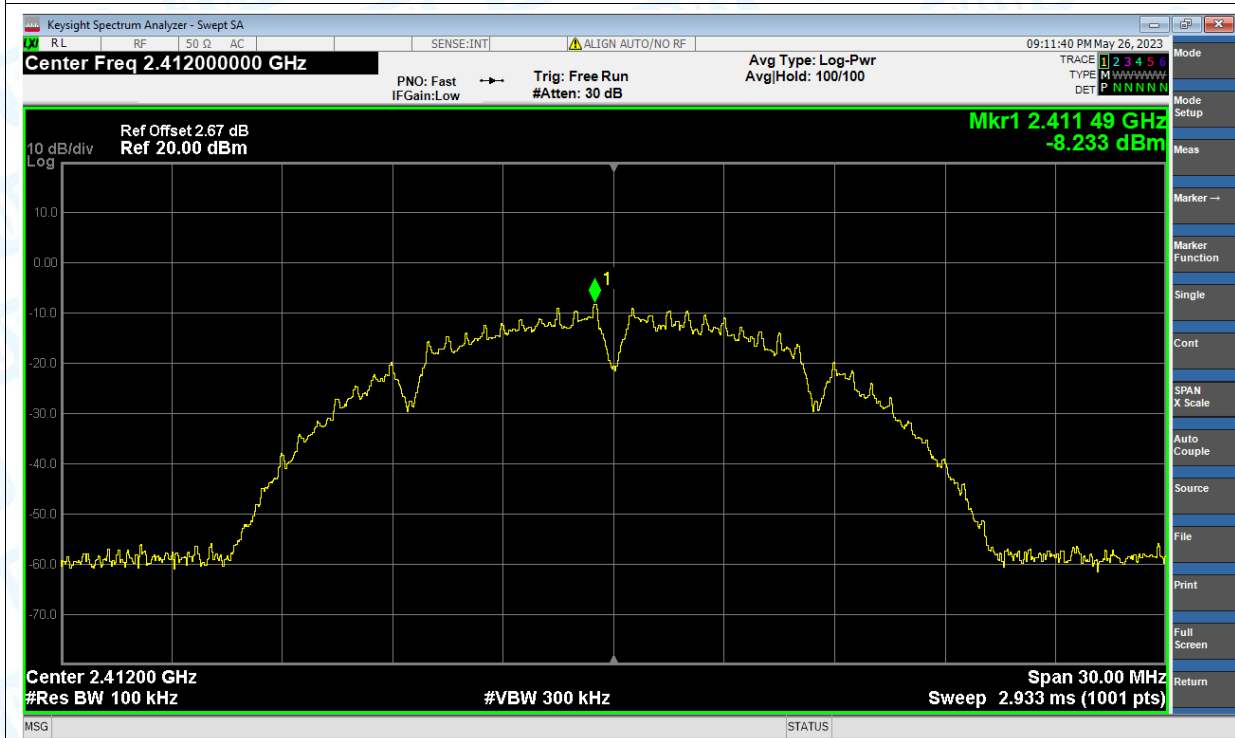


7. Conducted RF Spurious Emission

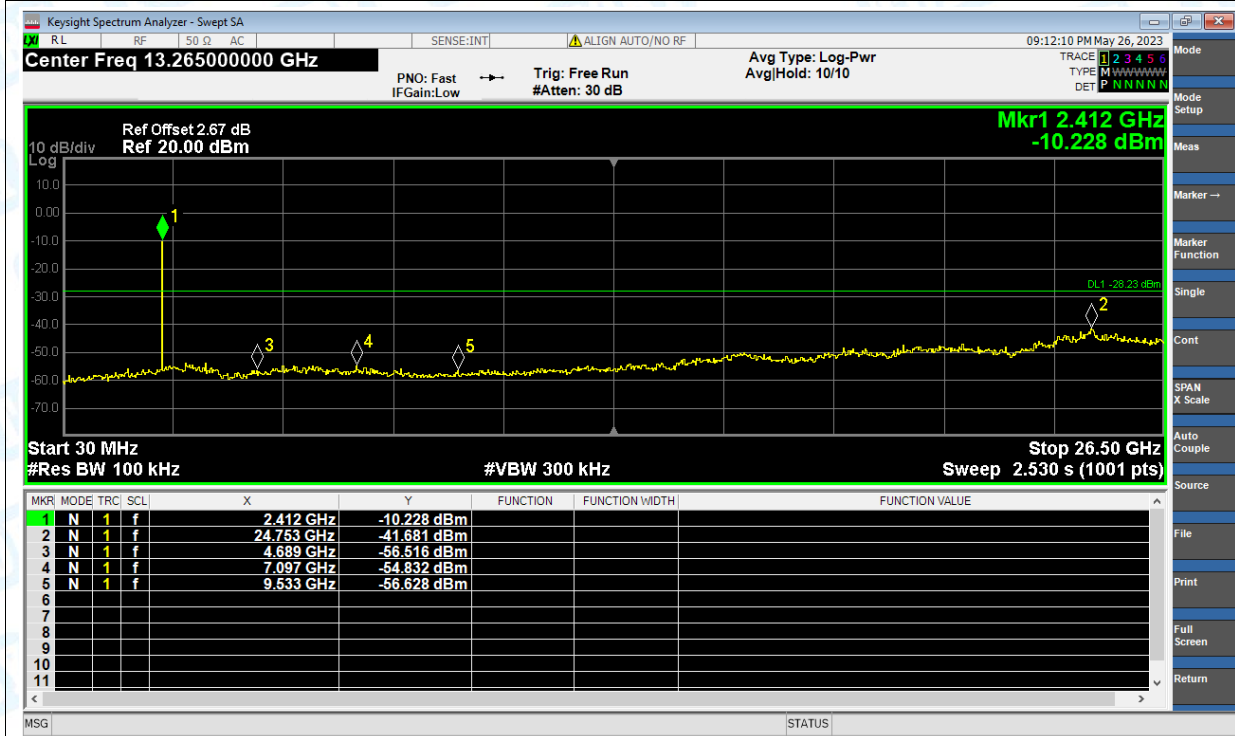
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-33.45	-20	Pass
NVNT	b	2437	Ant1	-33.68	-20	Pass
NVNT	b	2462	Ant1	-33.4	-20	Pass
NVNT	g	2412	Ant1	-28.71	-20	Pass
NVNT	g	2437	Ant1	-28.95	-20	Pass
NVNT	g	2462	Ant1	-29.35	-20	Pass
NVNT	n(HT20)	2412	Ant1	-28.72	-20	Pass
NVNT	n(HT20)	2437	Ant1	-29.63	-20	Pass
NVNT	n(HT20)	2462	Ant1	-29.94	-20	Pass
NVNT	n(HT40)	2422	Ant1	-26.1	-20	Pass
NVNT	n(HT40)	2437	Ant1	-26.64	-20	Pass
NVNT	n(HT40)	2452	Ant1	-27.05	-20	Pass

Test Graphs

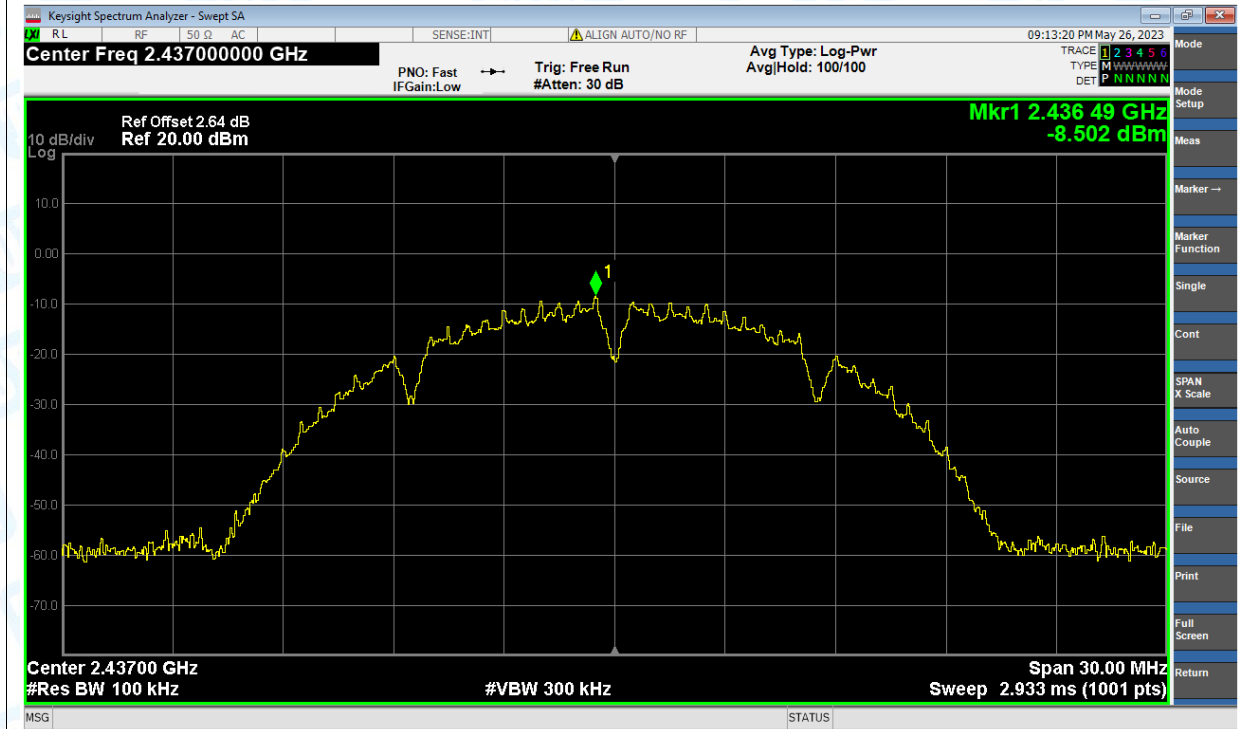
Tx. Spurious NVNT b 2412MHz Ant1 Ref



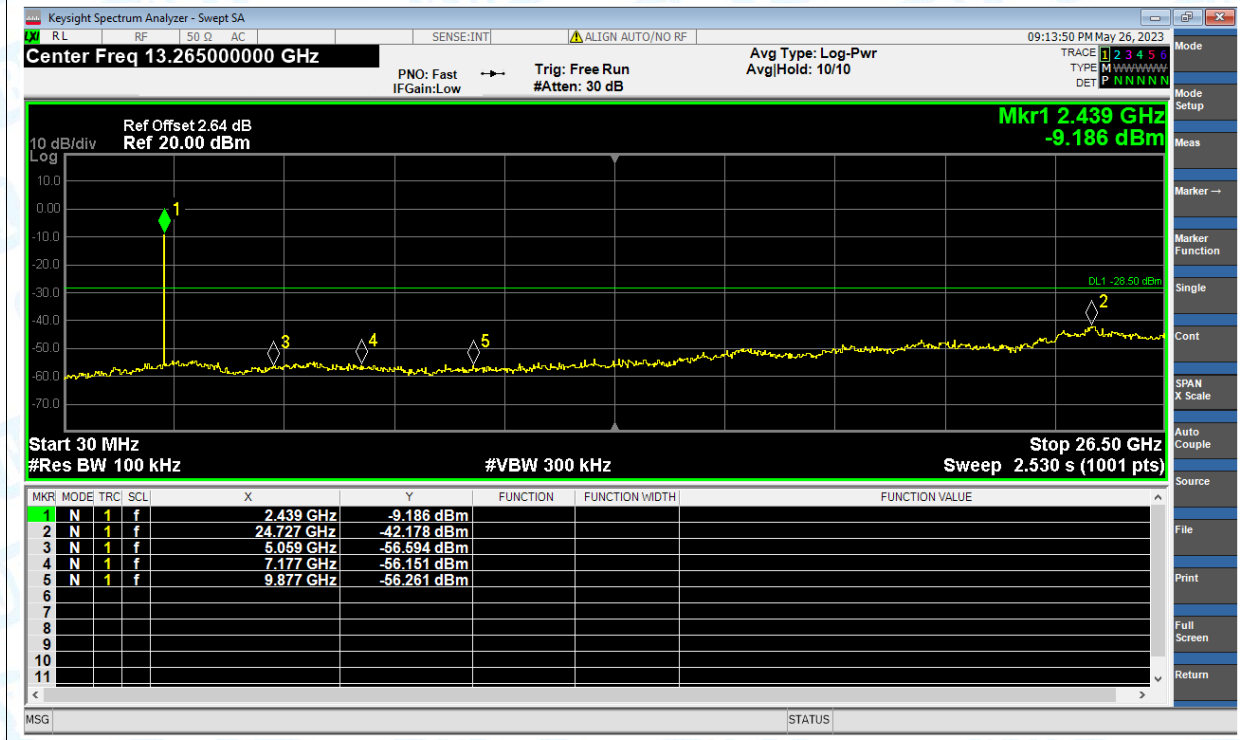
Tx. Spurious NVNT b 2412MHz Ant1 Emission



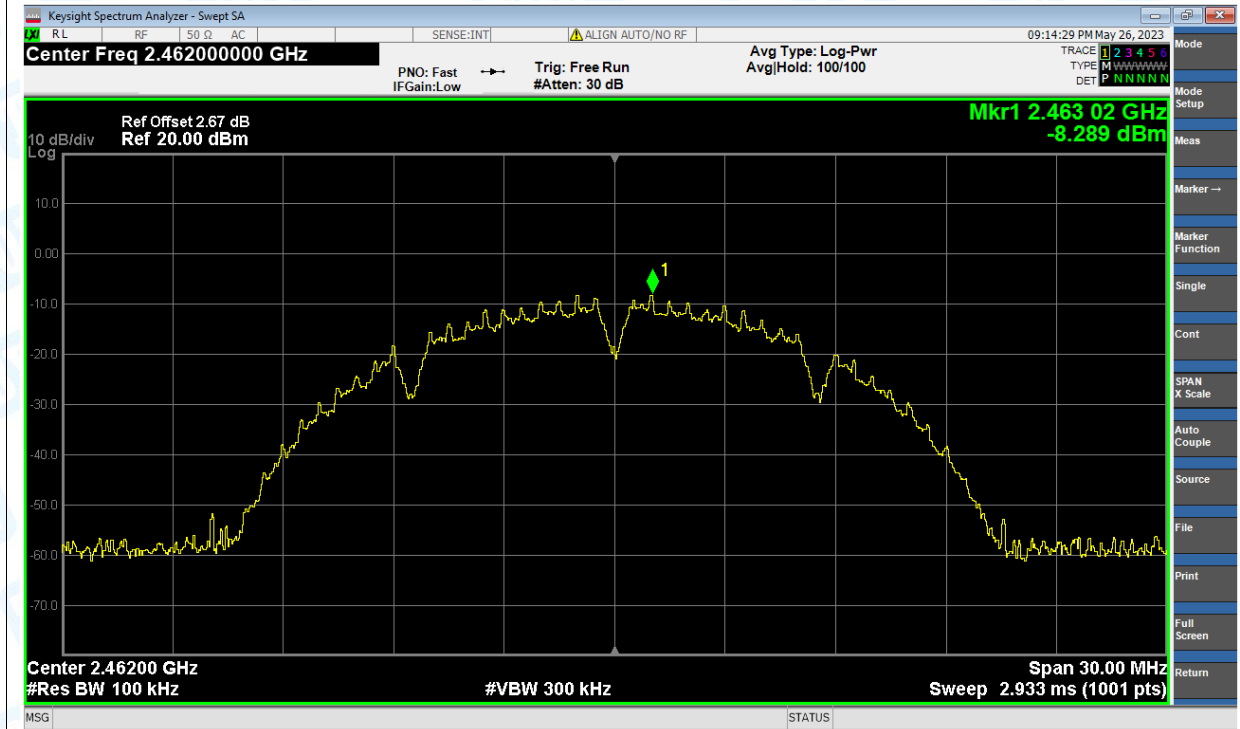
Tx. Spurious NVNT b 2437MHz Ant1 Ref



Tx. Spurious NVNT b 2437MHz Ant1 Emission



Tx. Spurious NVNT b 2462MHz Ant1 Ref



Tx. Spurious NVNT b 2462MHz Ant1 Emission

