

FCC ID: 2BEQ8-H036

Applicant: Baldr Group LTD

Address: 71-75 Shelton Street, Covent Garden, WC2H 9JQ, London, United Kingdom

Manufacturer: Baldr Group LTD

Address: 71-75 Shelton Street, Covent Garden, WC2H 9JQ, London, United Kingdom

Product Name: Smart Thermostat and Controller

Trade Mark: boldr

Model Number: H036

Date of Receipt: Jul. 27, 2026

Test Date: Jul. 27, 2026 - Aug. 20, 2026

Date of Report: Aug. 20, 2026

Prepared By: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1 Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China

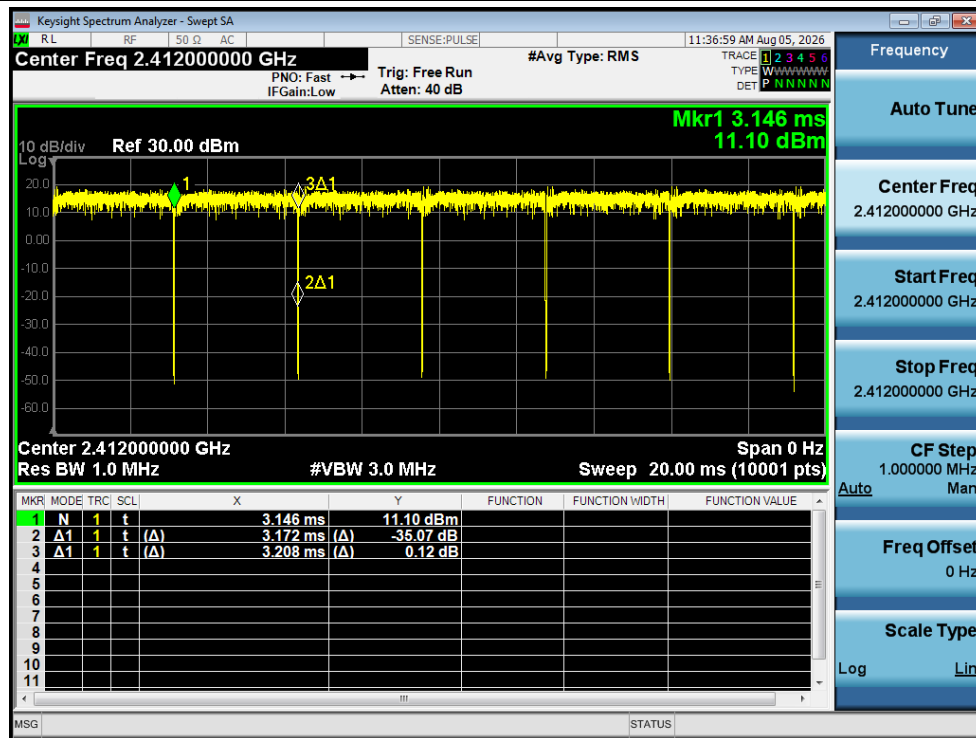
Applicable Standards: FCC PART 15 C 15.247
ANSI C63.10-2020 + Cor.1-2023+C63.10a-2024 + Errata to C63.10a-2024

Test Result: Pass

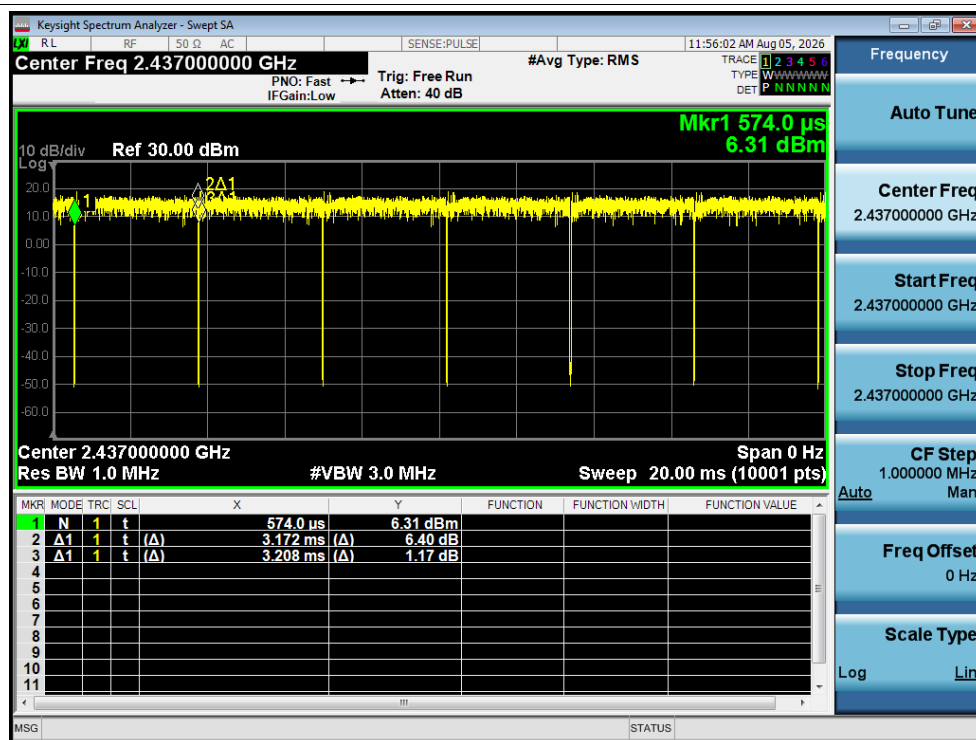
Report Number: DLE-260727034R

Duty Cycle

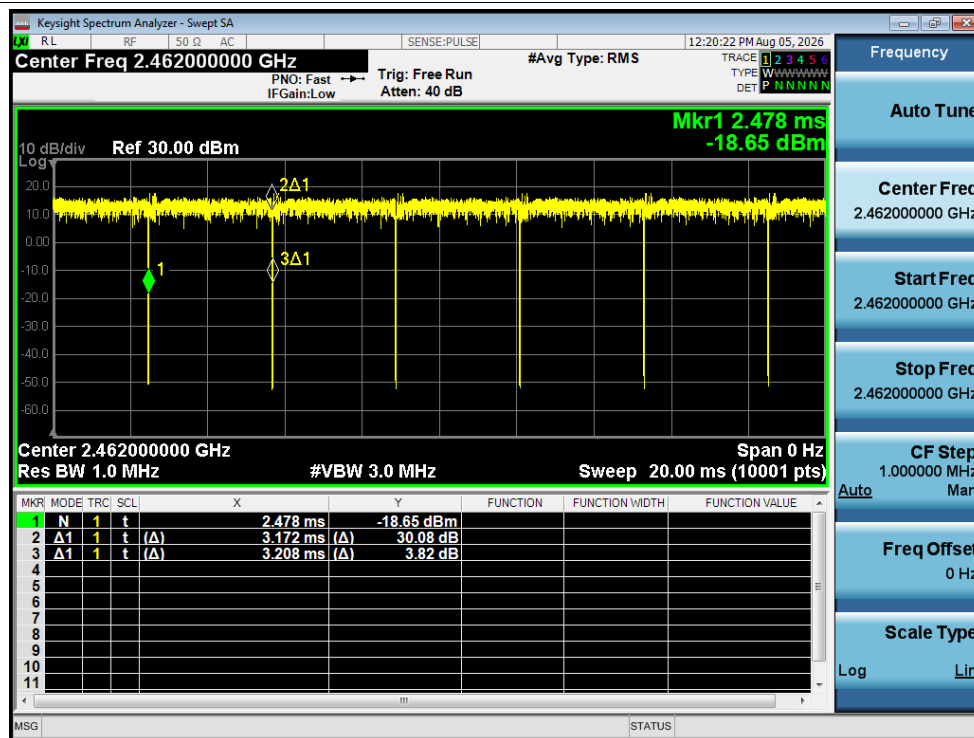
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	98.88	0.05	0.32
NVNT	b	2437	Ant1	98.88	0.05	0.32
NVNT	b	2462	Ant1	98.88	0.05	0.32
NVNT	g	2412	Ant1	94.86	0.23	1.59
NVNT	g	2437	Ant1	94.88	0.23	1.59
NVNT	g	2462	Ant1	94.88	0.23	1.59
NVNT	n20	2412	Ant1	94.14	0.26	1.83
NVNT	n20	2437	Ant1	94.12	0.26	1.84
NVNT	n20	2462	Ant1	94.12	0.26	1.84
NVNT	n40	2422	Ant1	89.81	0.47	3.55
NVNT	n40	2437	Ant1	89.76	0.47	3.54
NVNT	n40	2452	Ant1	89.24	0.49	3.55



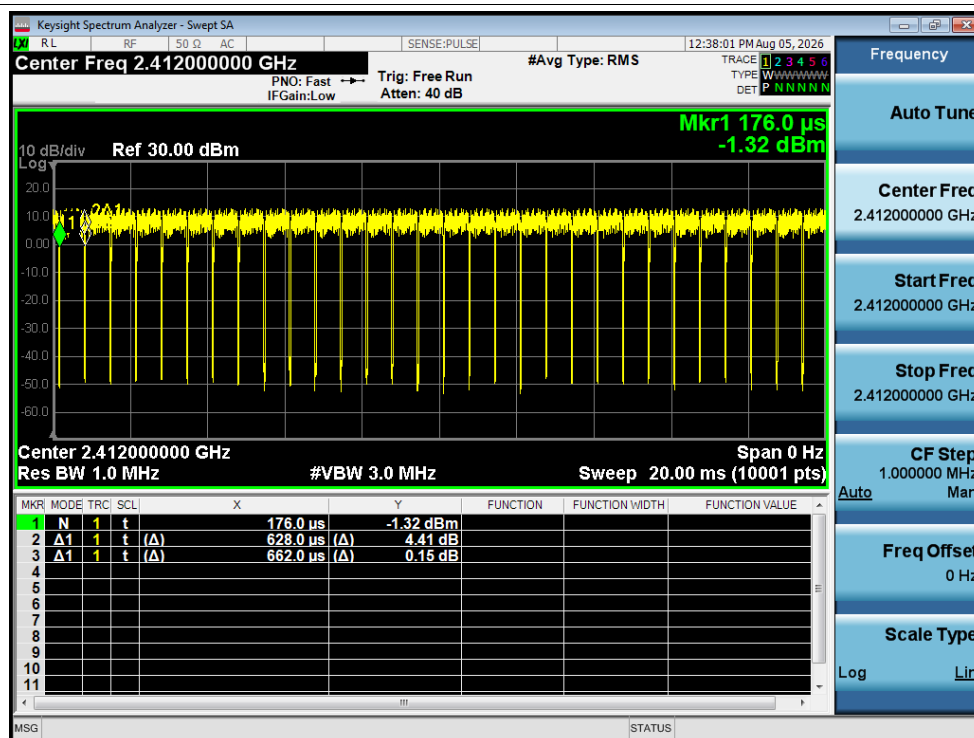
Duty Cycle NVNT b 2412MHz Ant1



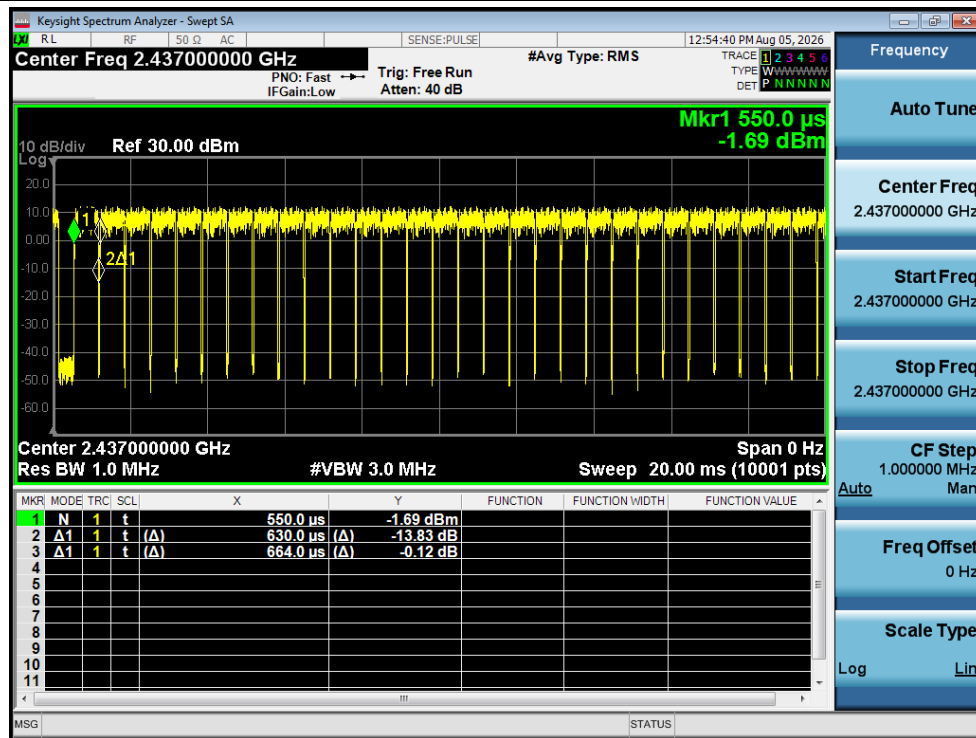
Duty Cycle NVNT b 2437MHz Ant1



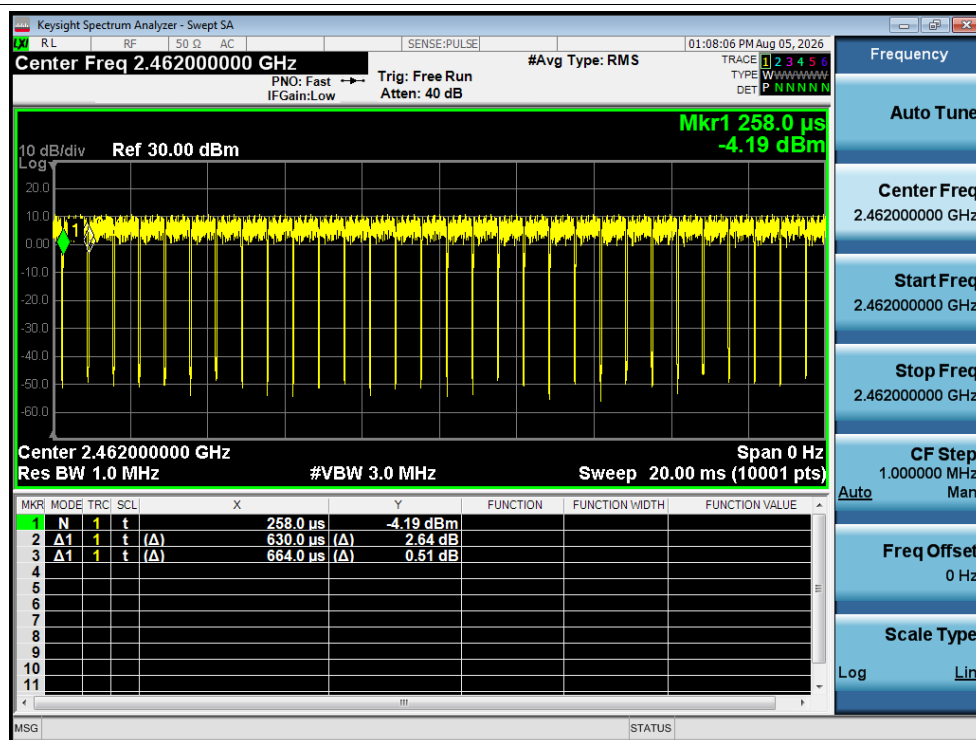
Duty Cycle NVNT b 2462MHz Ant1



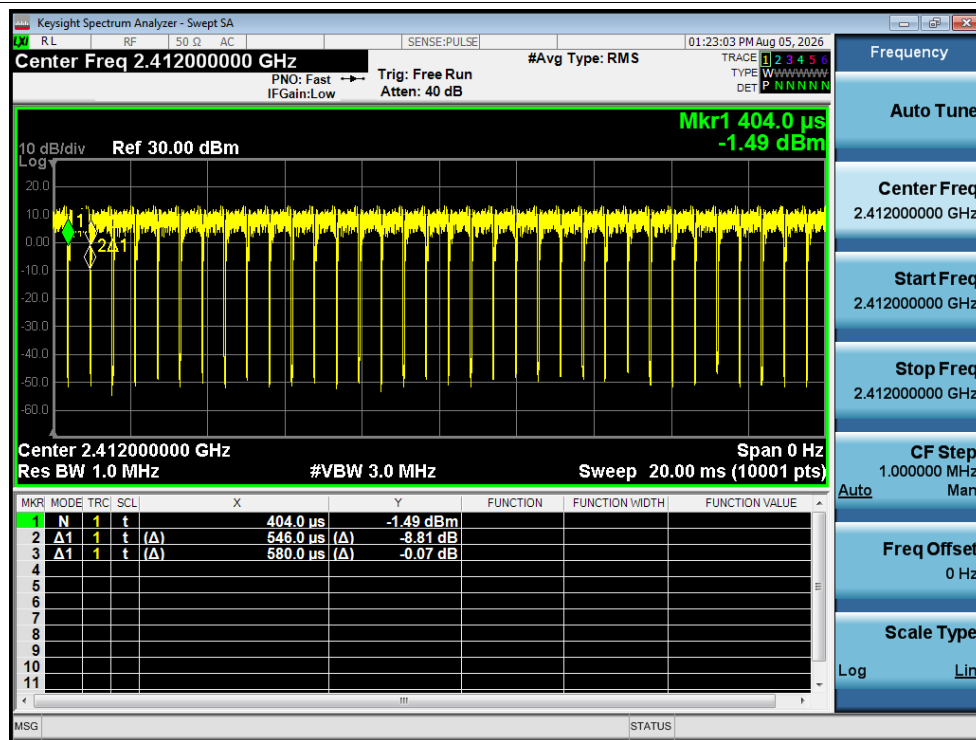
Duty Cycle NVNT g 2412MHz Ant1



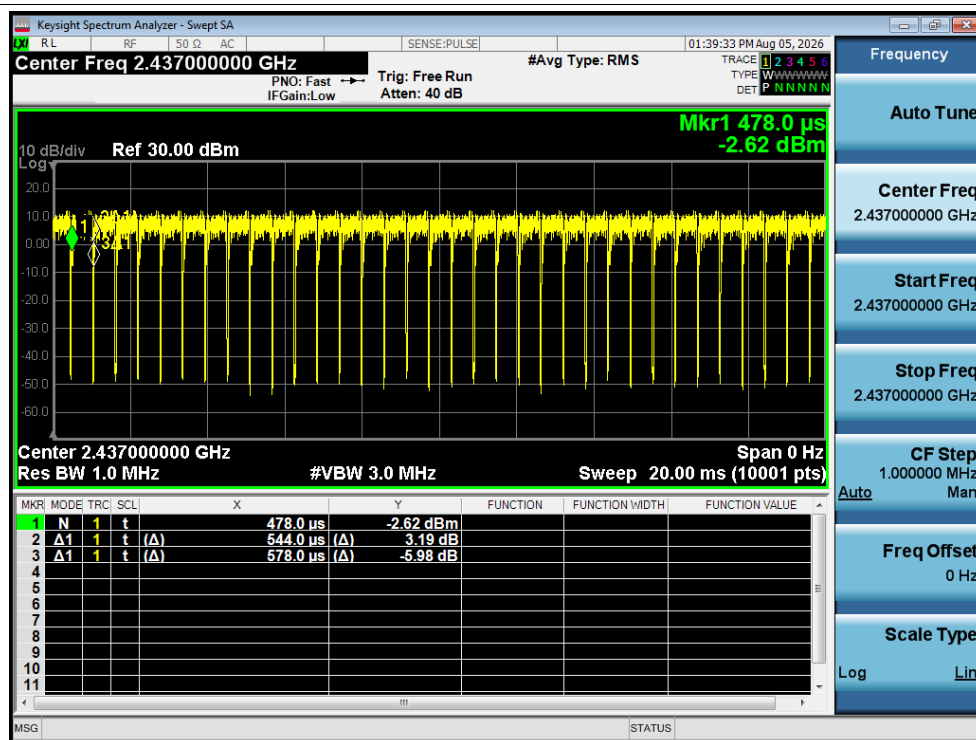
Duty Cycle NVNT g 2437MHz Ant1



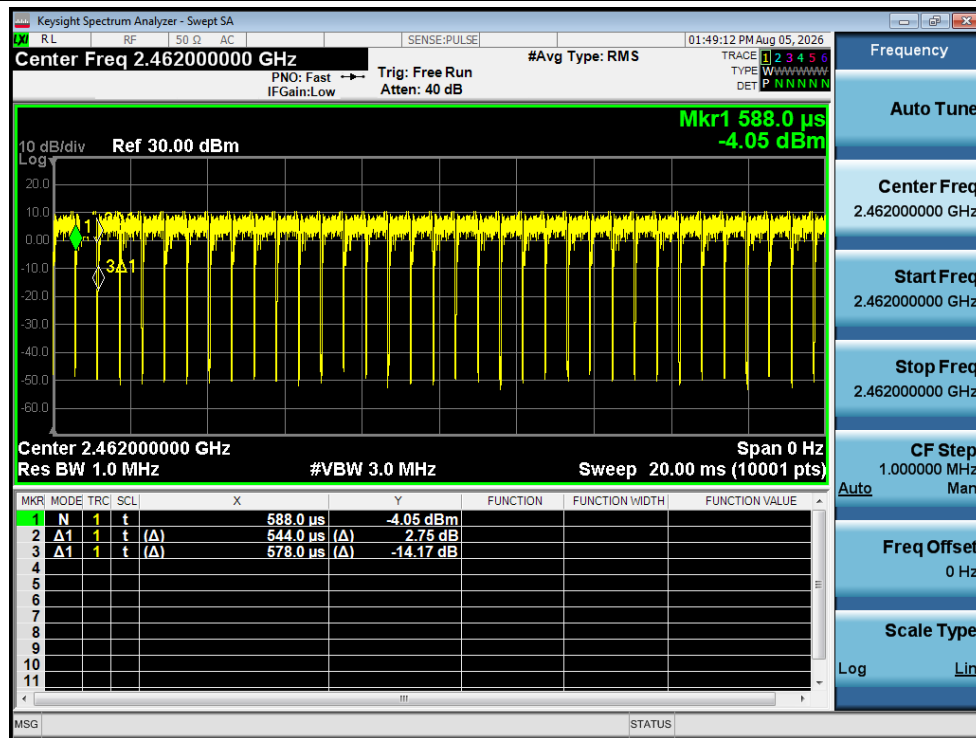
Duty Cycle NVNT g 2462MHz Ant1



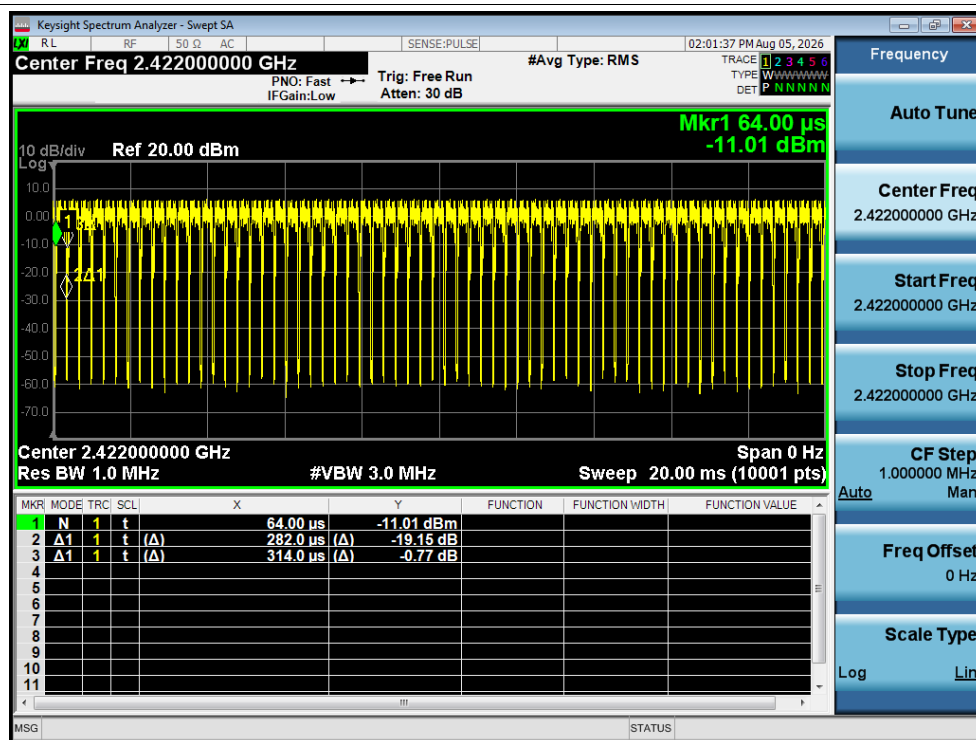
Duty Cycle NVNT n20 2412MHz Ant1



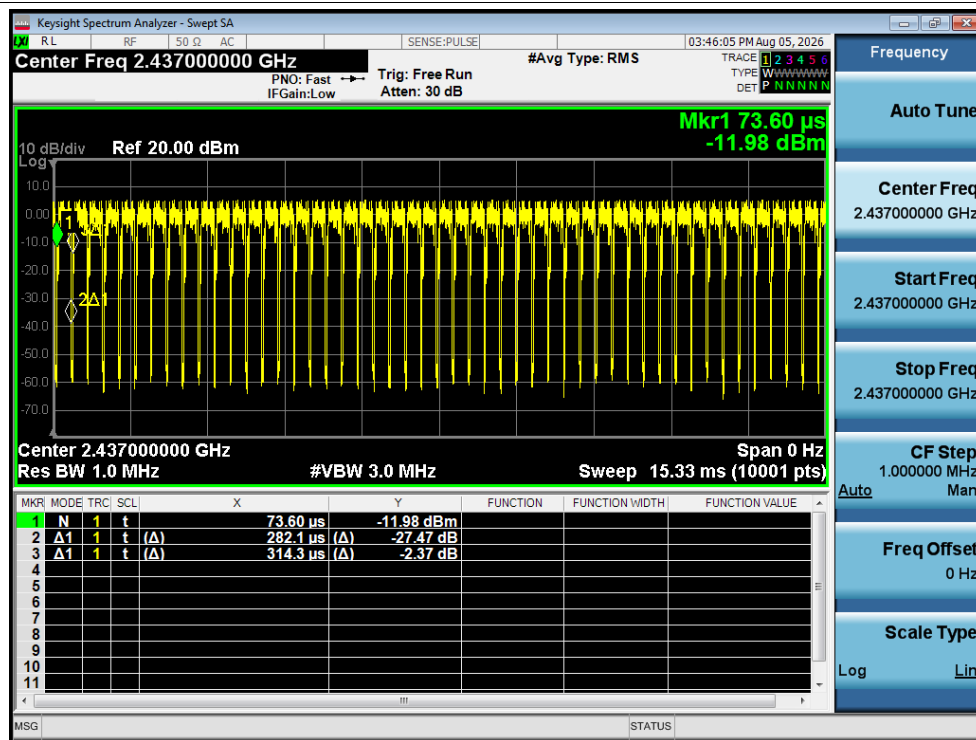
Duty Cycle NVNT n20 2437MHz Ant1



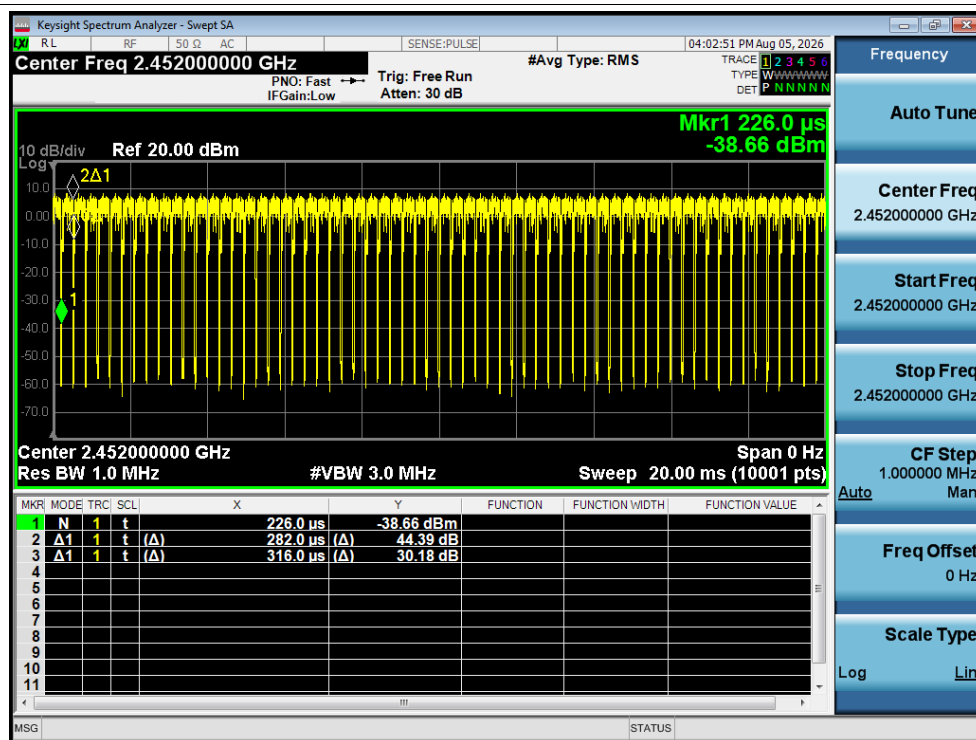
Duty Cycle NVNT n20 2462MHz Ant1



Duty Cycle NVNT n40 2422MHz Ant1



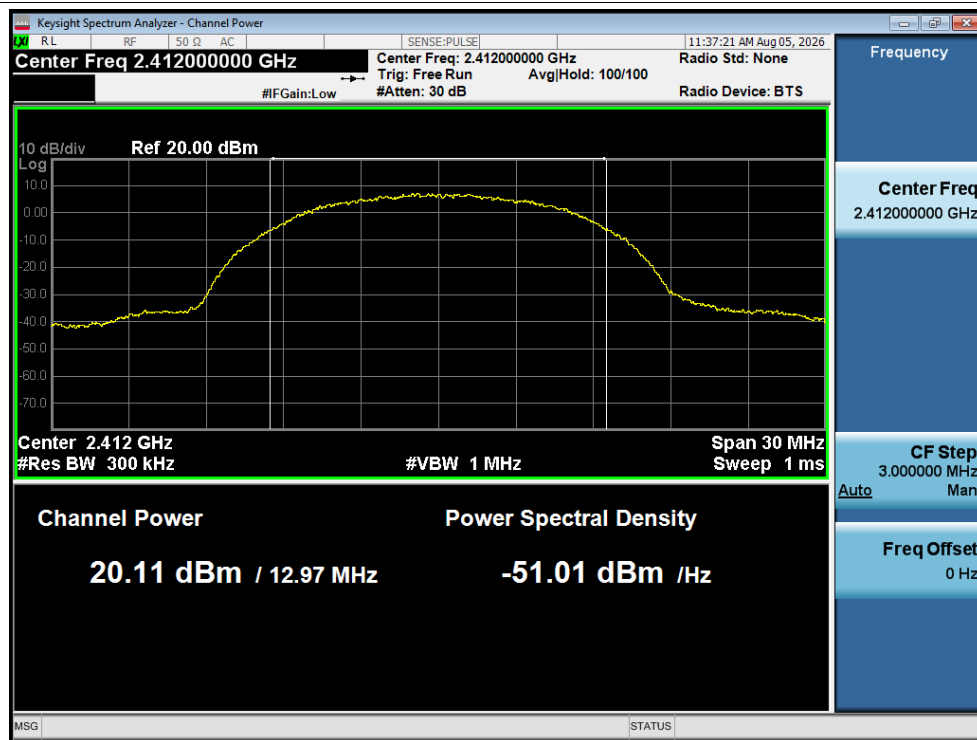
Duty Cycle NVNT n40 2437MHz Ant1



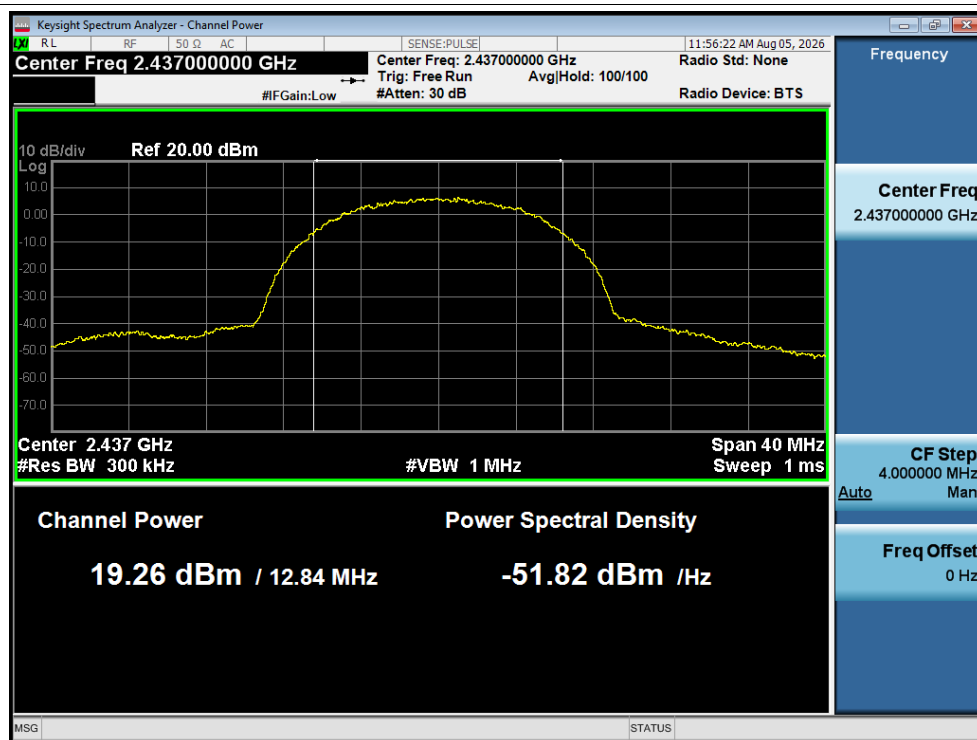
Duty Cycle NVNT n40 2452MHz Ant1

Maximum Average Conducted Output Power

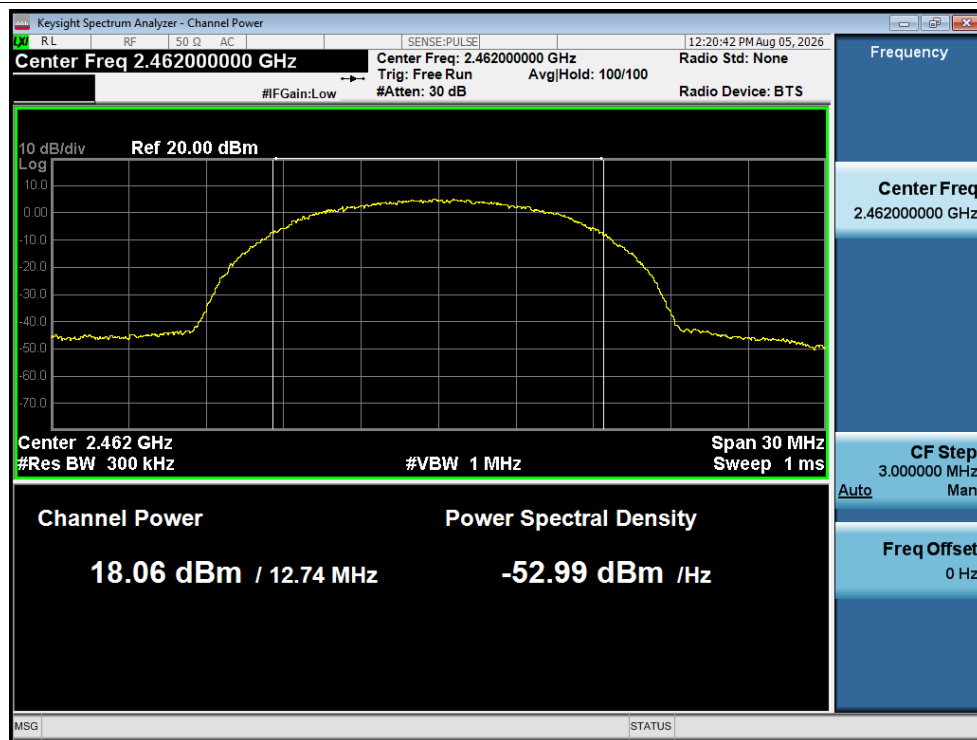
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Limit Conducted(dBm)	Verdict
NVNT	b	2412	Ant1	20.11	0.05	20.16	30	Pass
NVNT	b	2437	Ant1	19.26	0.05	19.31	30	Pass
NVNT	b	2462	Ant1	18.06	0.05	18.11	30	Pass
NVNT	g	2412	Ant1	17.04	0.23	17.27	30	Pass
NVNT	g	2437	Ant1	16.24	0.23	16.47	30	Pass
NVNT	g	2462	Ant1	14.73	0.23	14.96	30	Pass
NVNT	n20	2412	Ant1	16.46	0.26	16.72	30	Pass
NVNT	n20	2437	Ant1	15.59	0.26	15.85	30	Pass
NVNT	n20	2462	Ant1	14.21	0.26	14.47	30	Pass
NVNT	n40	2422	Ant1	16.01	0.47	16.48	30	Pass
NVNT	n40	2437	Ant1	15.15	0.47	15.62	30	Pass
NVNT	n40	2452	Ant1	14.62	0.49	15.11	30	Pass



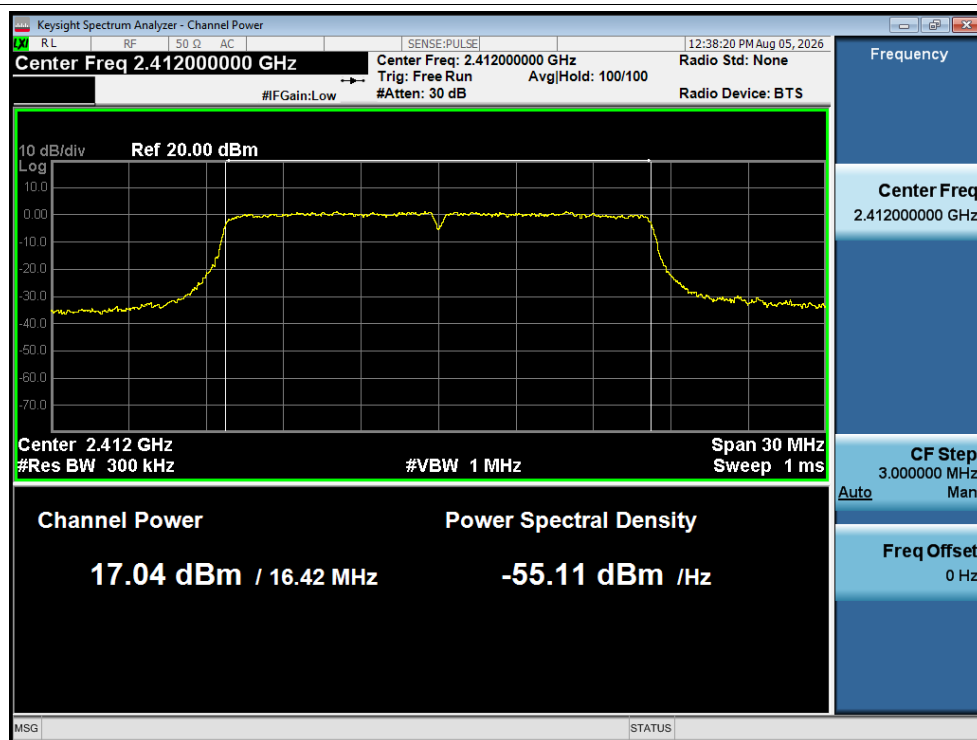
Average Power NVNT b 2412MHz Ant1



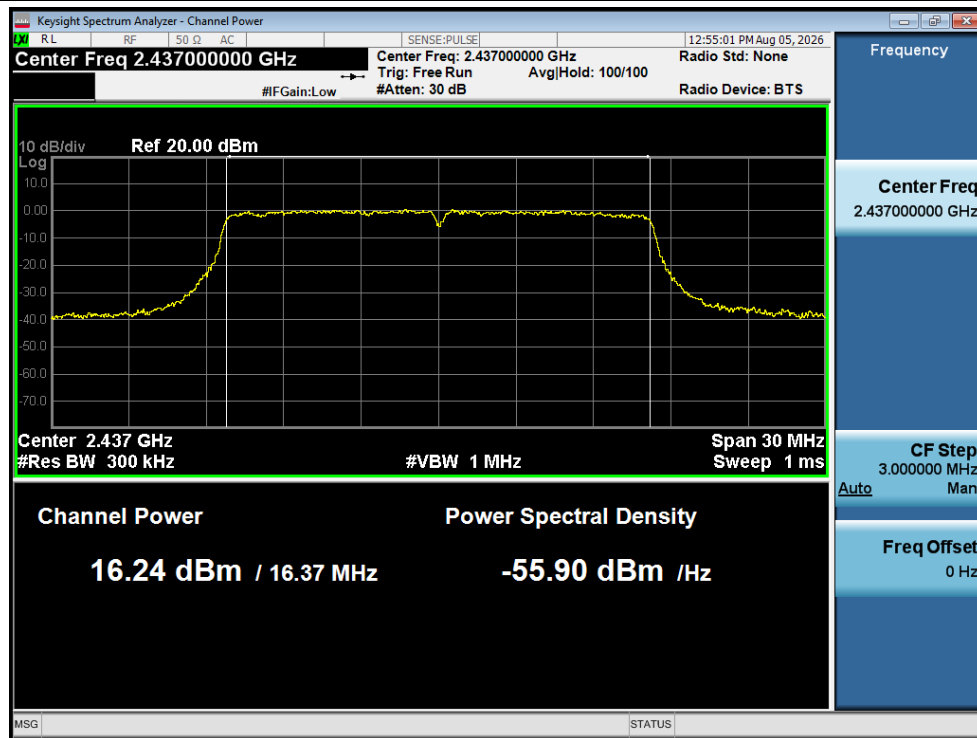
Average Power NVNT b 2437MHz Ant1



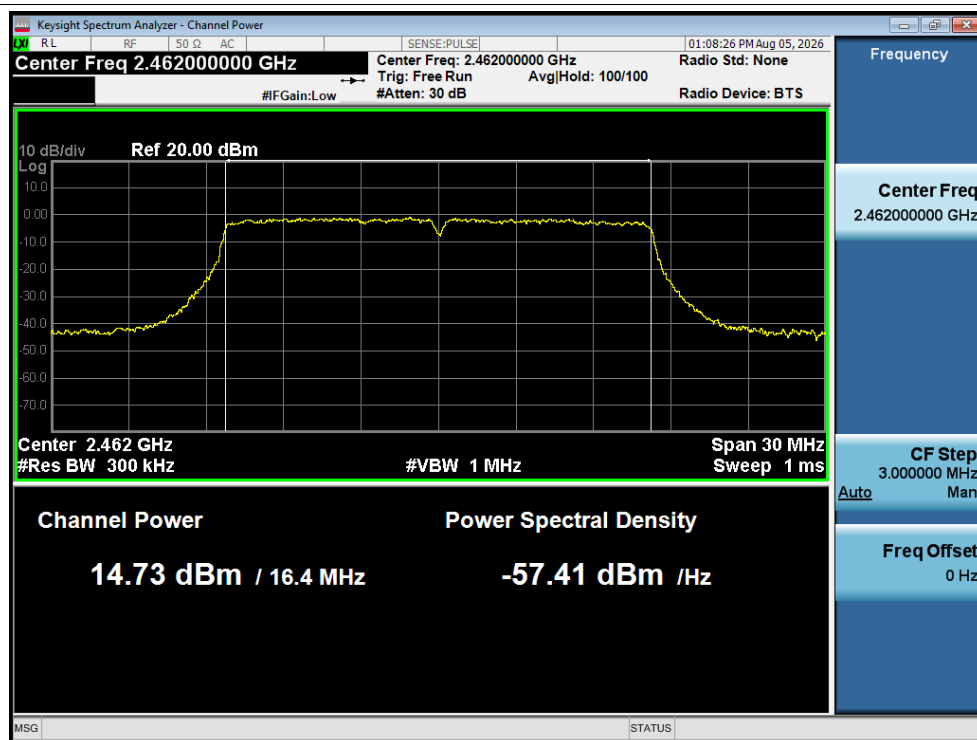
Average Power NVNT b 2462MHz Ant1



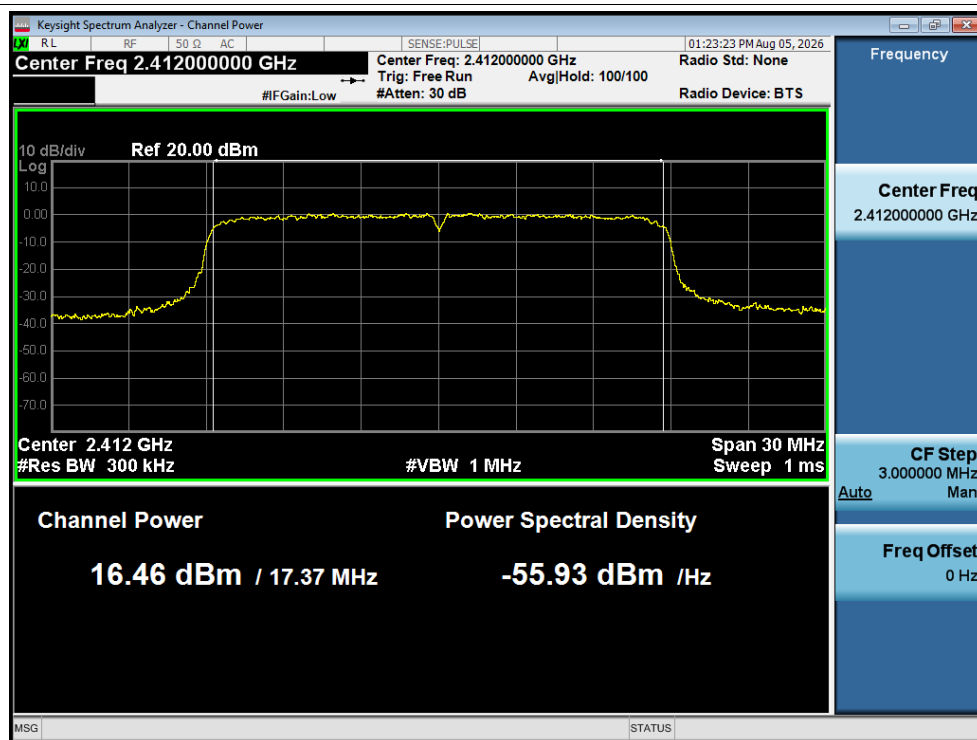
Average Power NVNT g 2412MHz Ant1



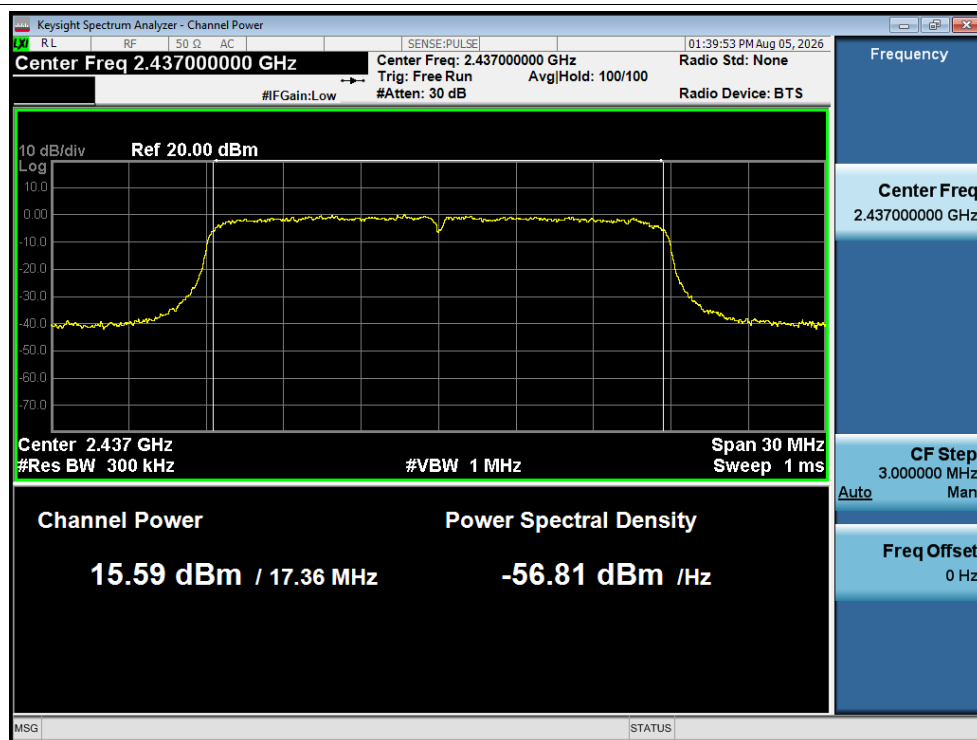
Average Power NVNT g 2437MHz Ant1



Average Power NVNT g 2462MHz Ant1

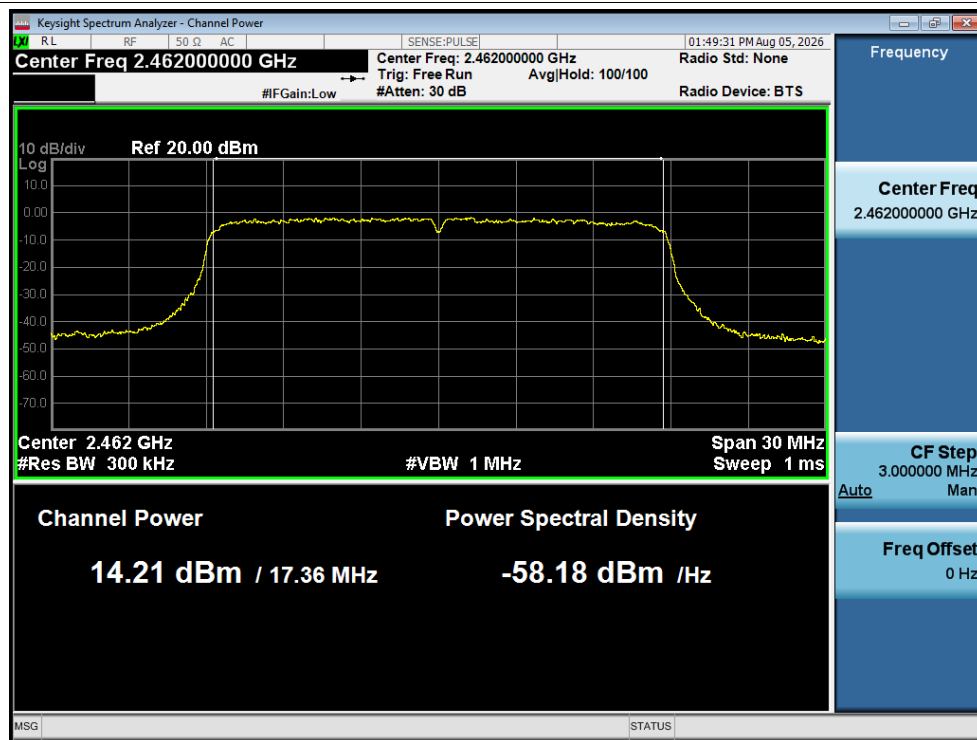


Average Power NVNT n20 2412MHz Ant1

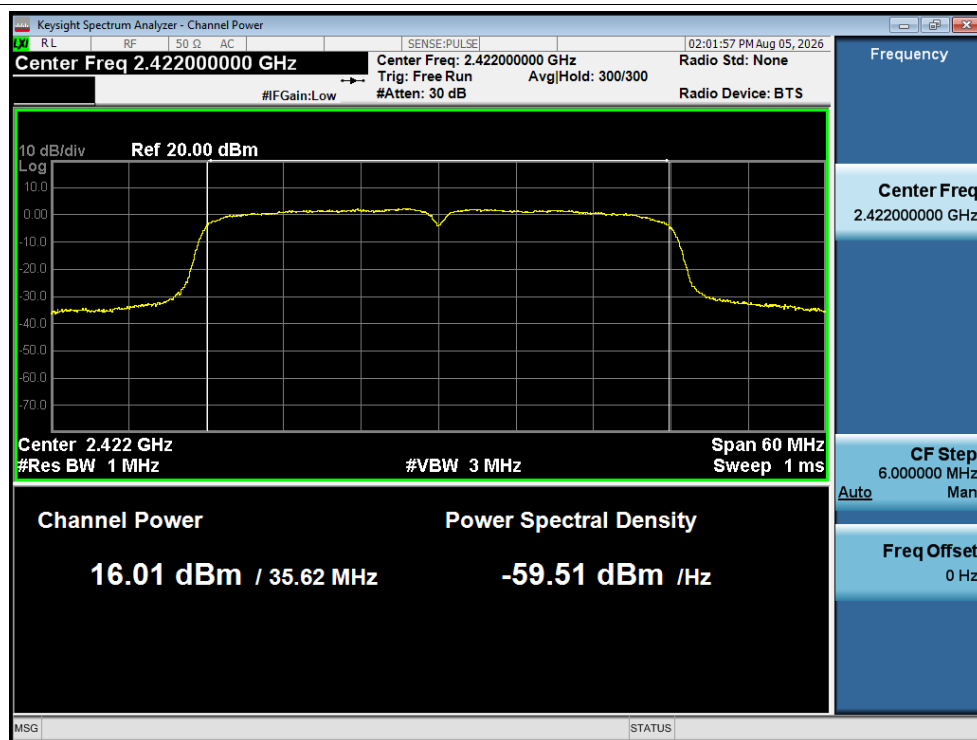


Average Power NVNT n20 2437MHz Ant1

Report

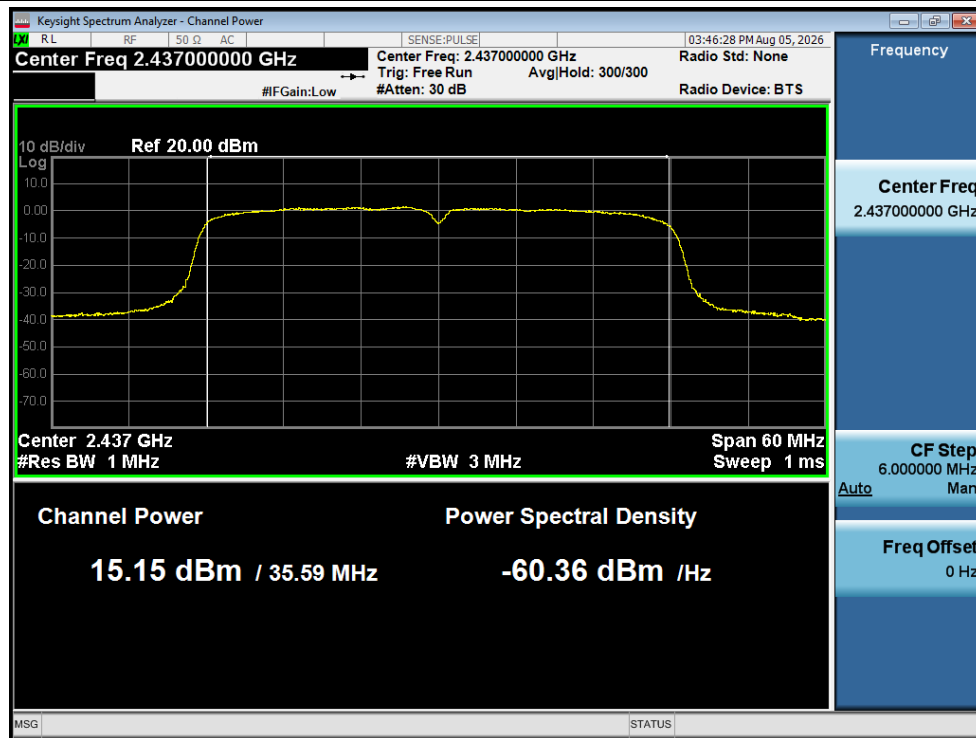


Average Power NVNT n20 2462MHz Ant1

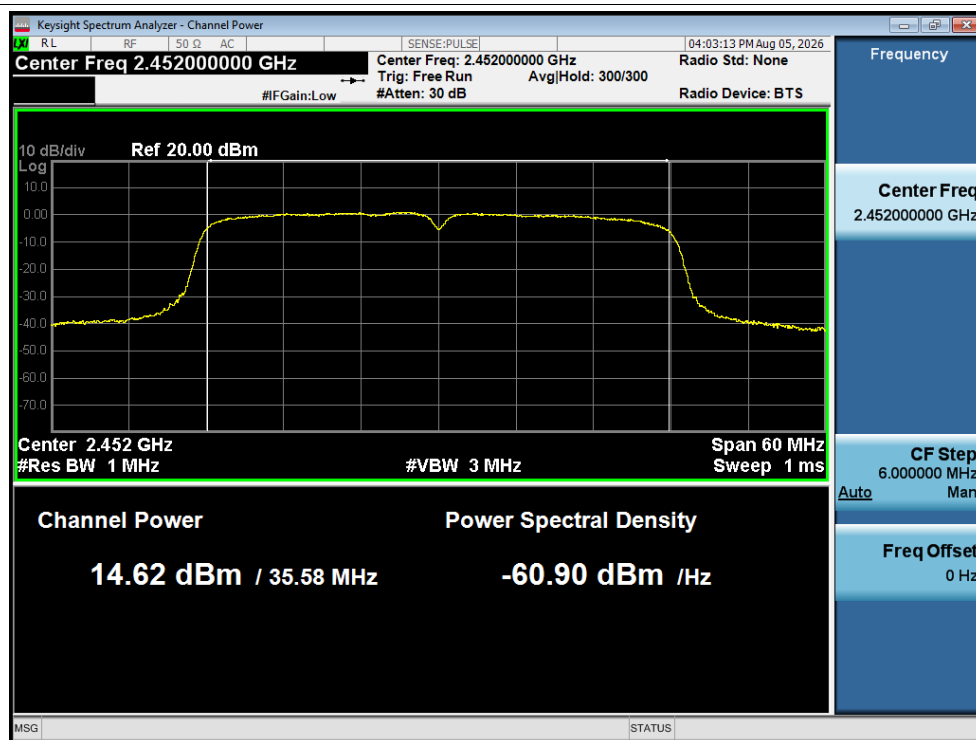


Average Power NVNT n40 2422MHz Ant1

Report



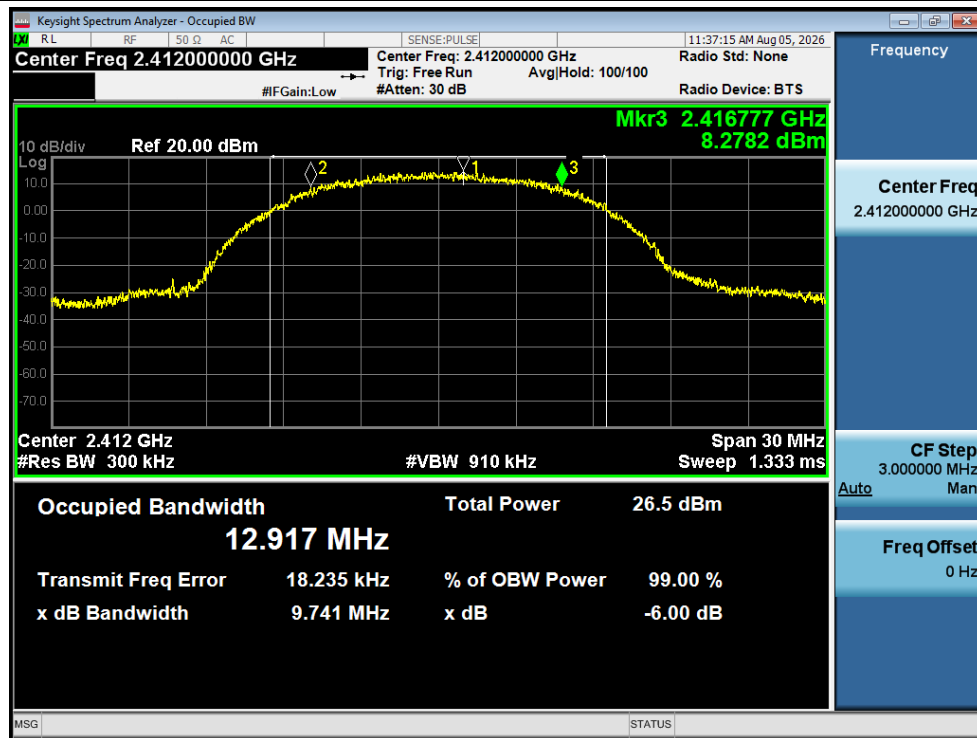
Average Power NVNT n40 2437MHz Ant1



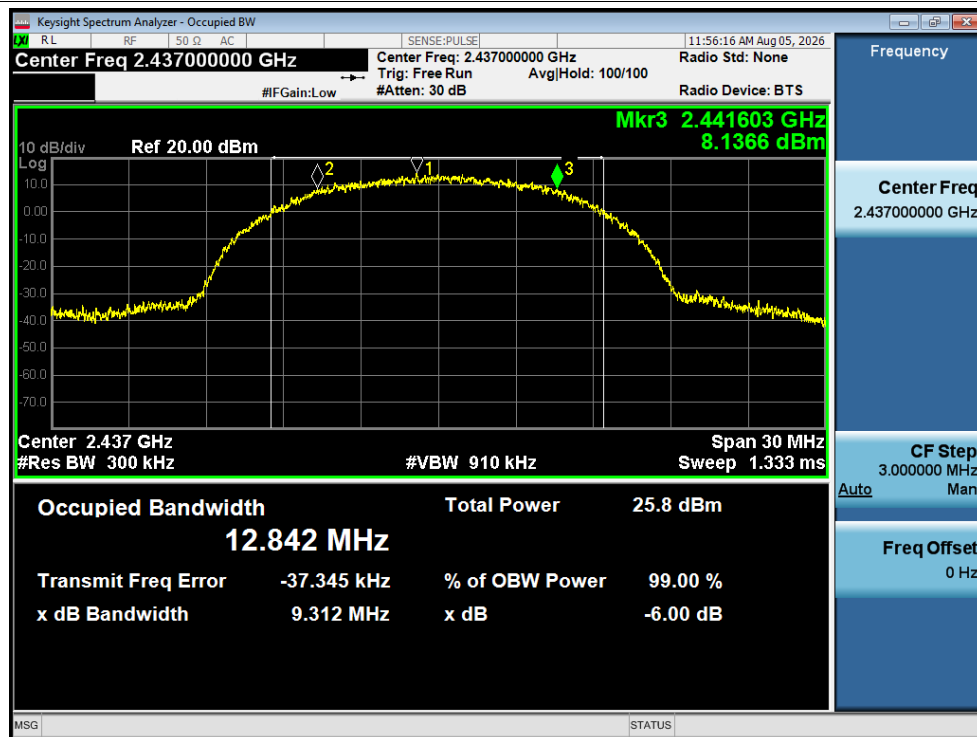
Average Power NVNT n40 2452MHz Ant1

-6dB Bandwidth

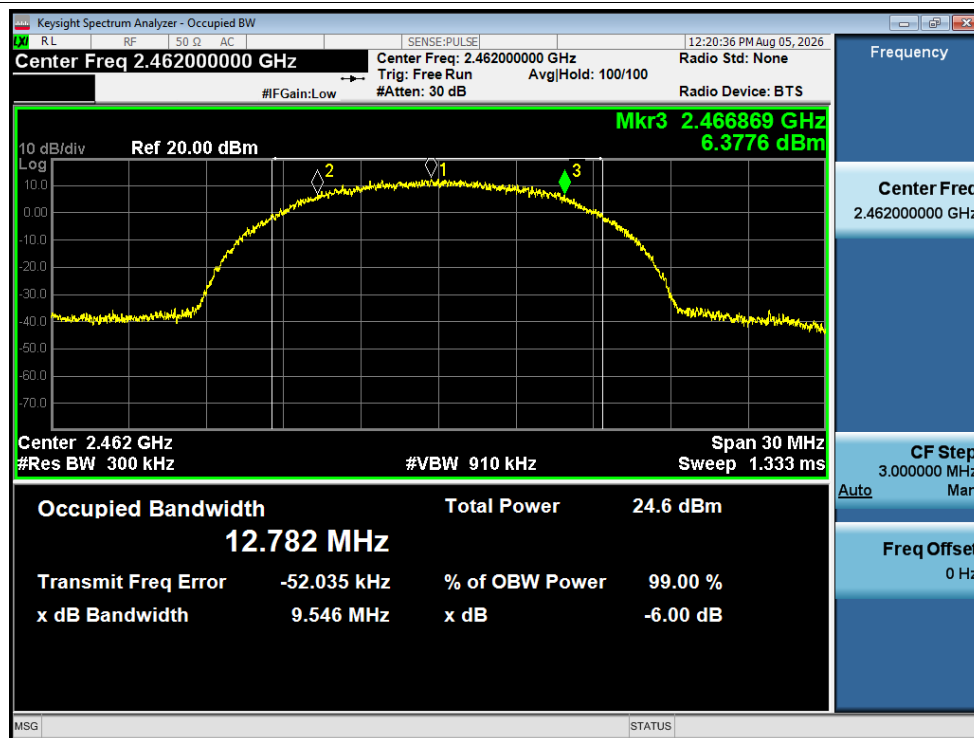
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.74	0.5	Pass
NVNT	b	2437	Ant1	9.312	0.5	Pass
NVNT	b	2462	Ant1	9.55	0.5	Pass
NVNT	g	2412	Ant1	16.29	0.5	Pass
NVNT	g	2437	Ant1	16.39	0.5	Pass
NVNT	g	2462	Ant1	16.26	0.5	Pass
NVNT	n20	2412	Ant1	17.08	0.5	Pass
NVNT	n20	2437	Ant1	17.39	0.5	Pass
NVNT	n20	2462	Ant1	17.18	0.5	Pass
NVNT	n40	2422	Ant1	34.24	0.5	Pass
NVNT	n40	2437	Ant1	33.74	0.5	Pass
NVNT	n40	2452	Ant1	33.78	0.5	Pass



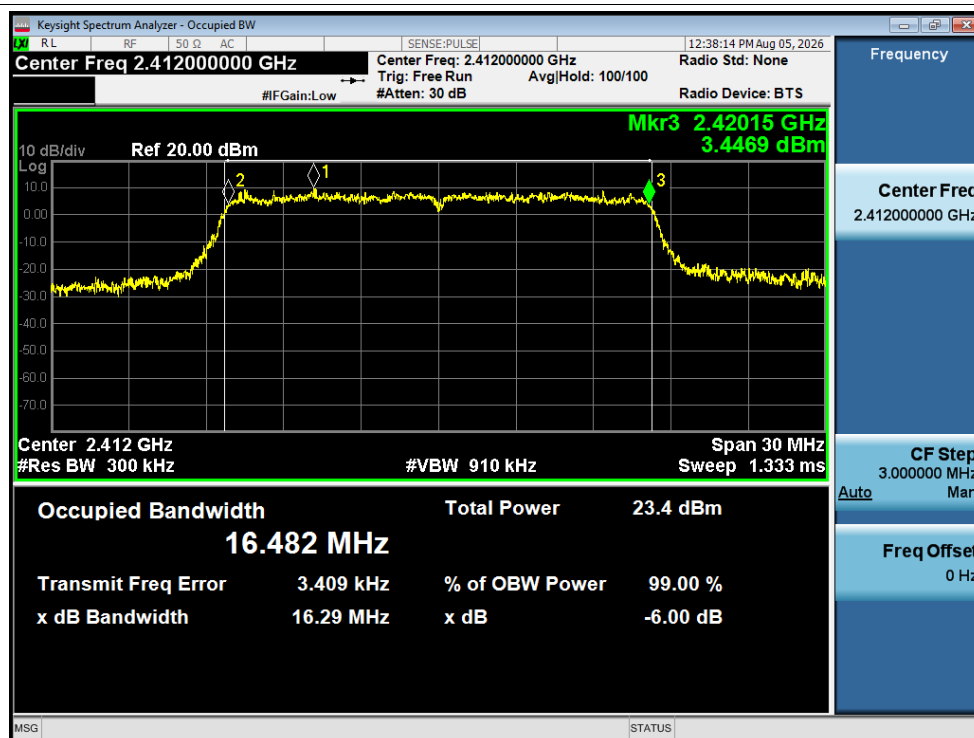
-6dB Bandwidth NVNT b 2412MHz Ant1



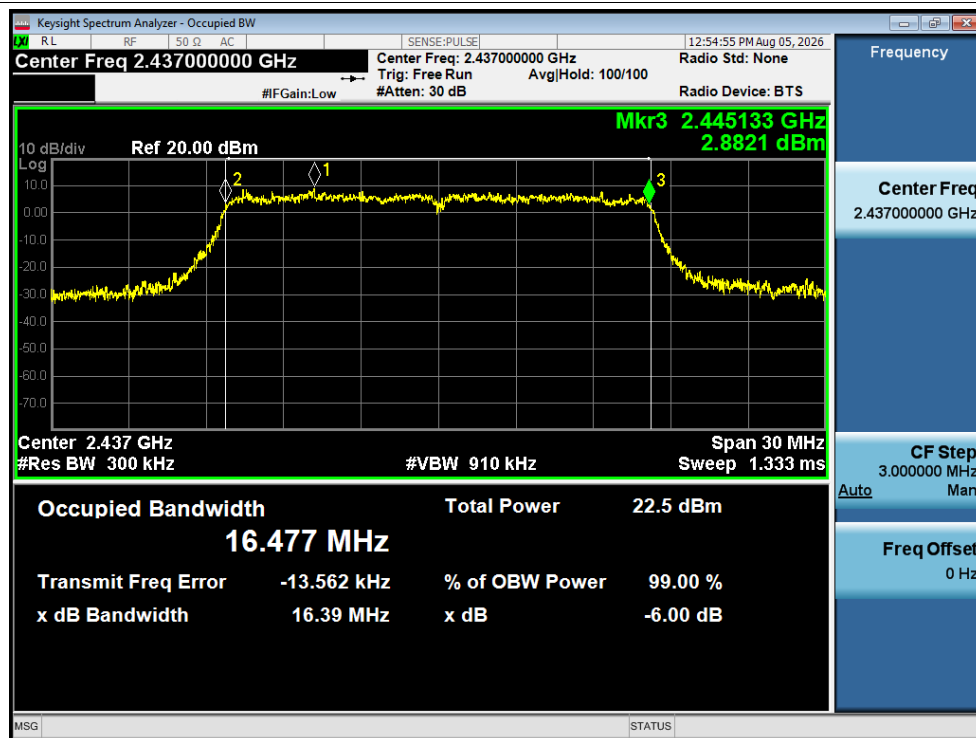
-6dB Bandwidth NVNT b 2437MHz Ant1



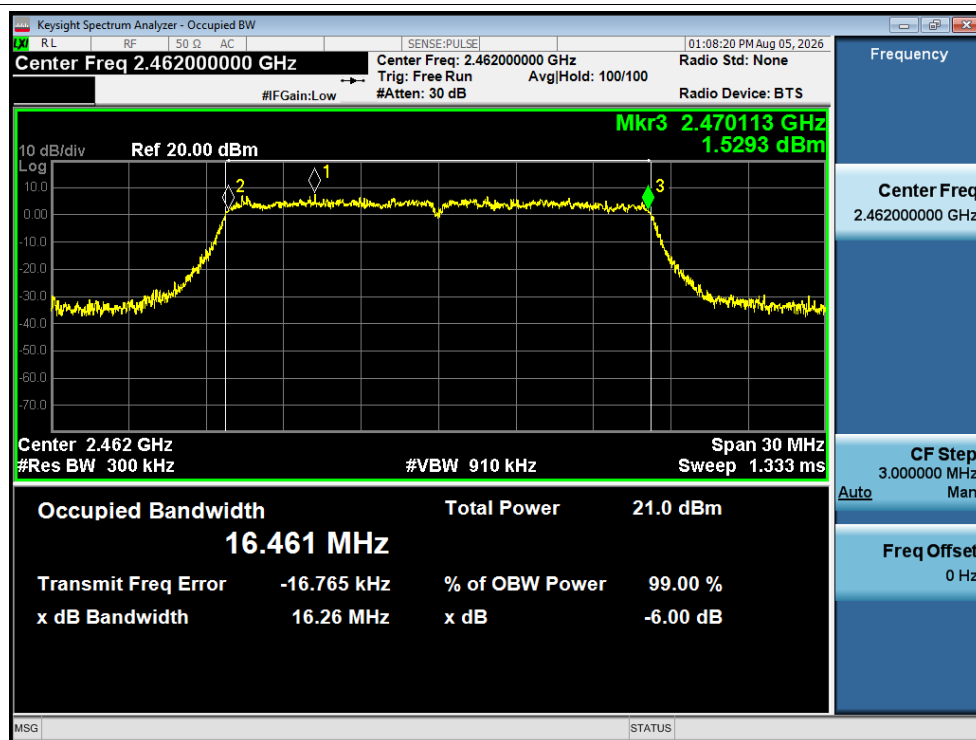
-6dB Bandwidth NVNT b 2462MHz Ant1



-6dB Bandwidth NVNT g 2412MHz Ant1

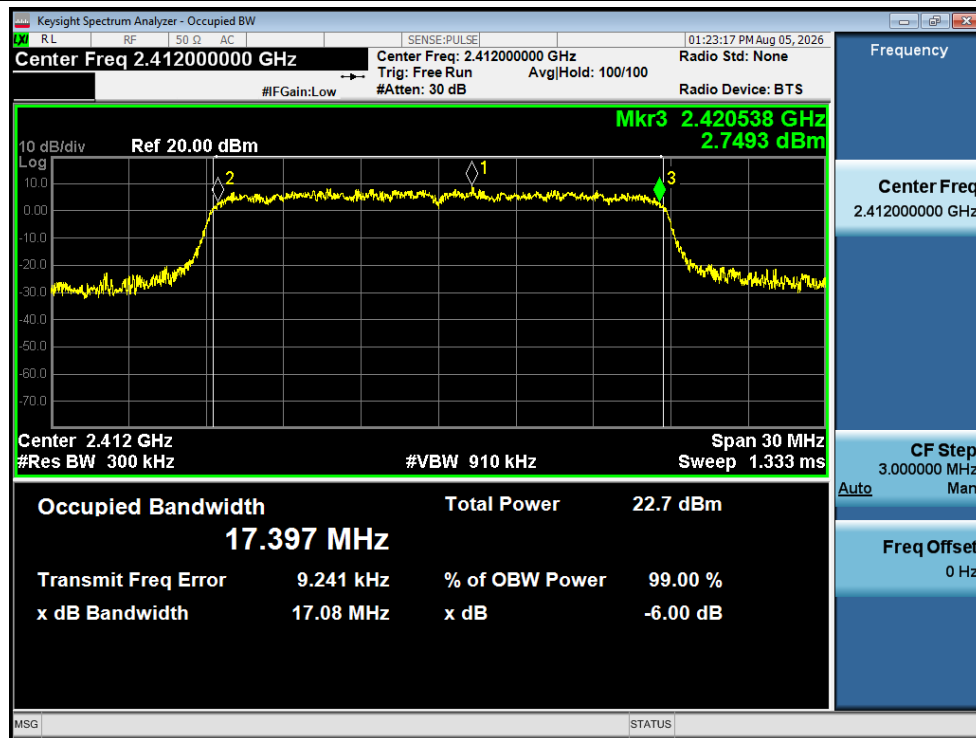


-6dB Bandwidth NVNT g 2437MHz Ant1

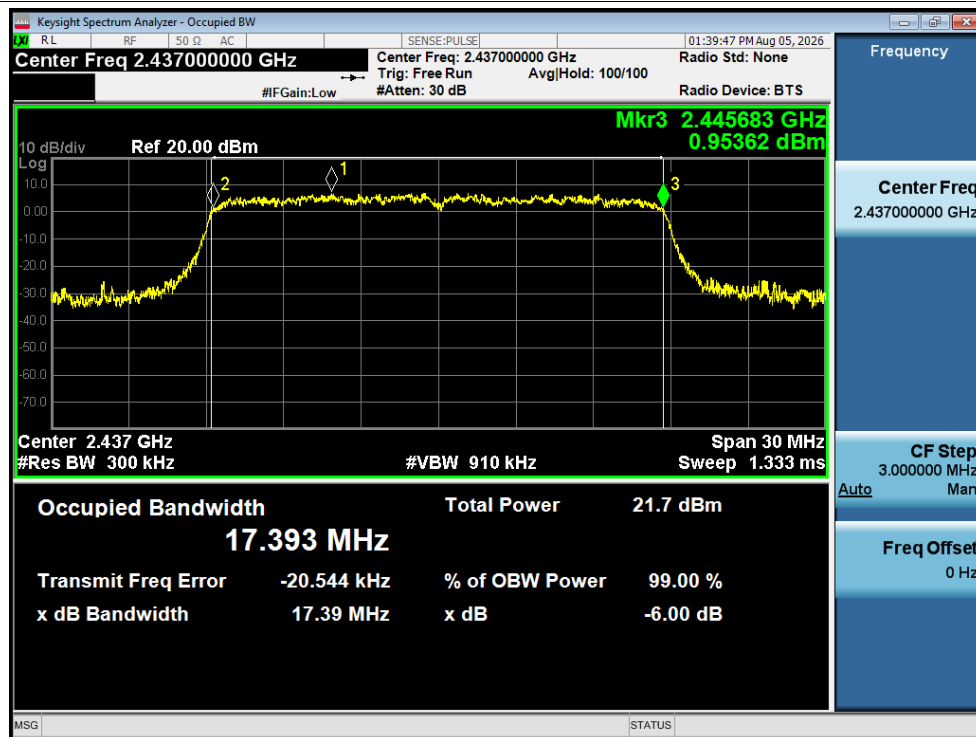


-6dB Bandwidth NVNT g 2462MHz Ant1

Report

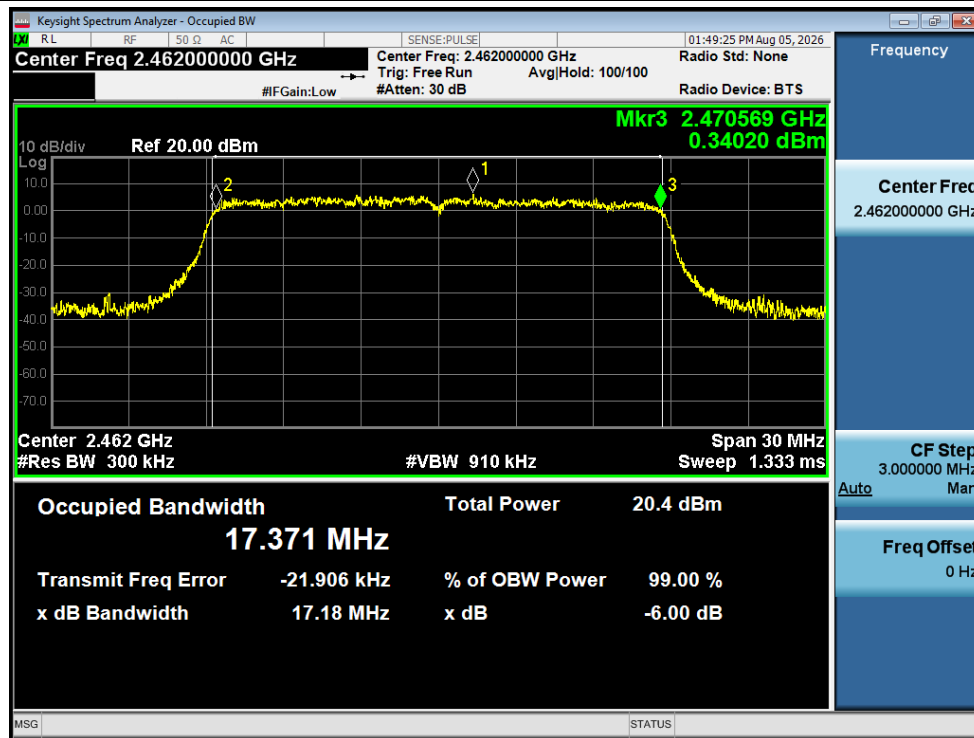


-6dB Bandwidth NVNT n20 2412MHz Ant1

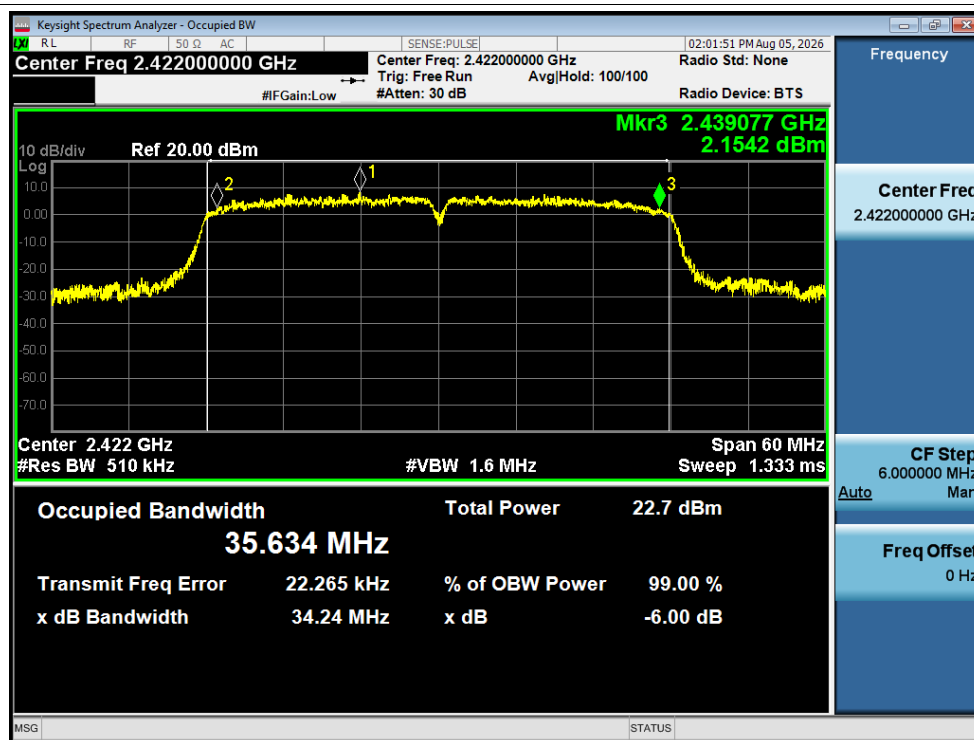


-6dB Bandwidth NVNT n20 2437MHz Ant1

Report

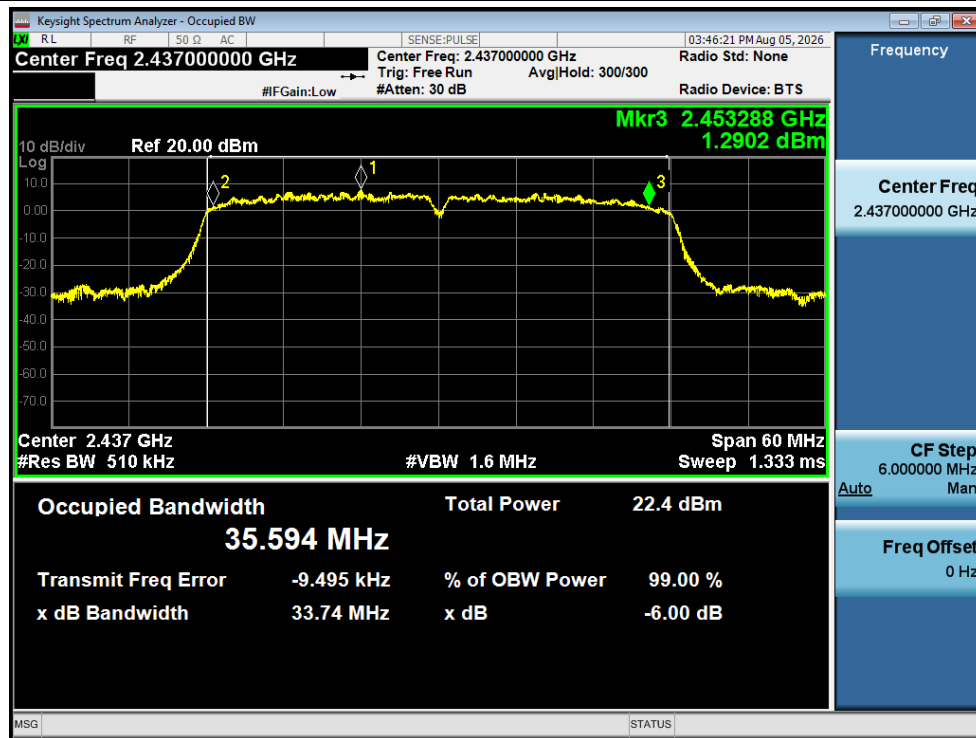


-6dB Bandwidth NVNT n20 2462MHz Ant1

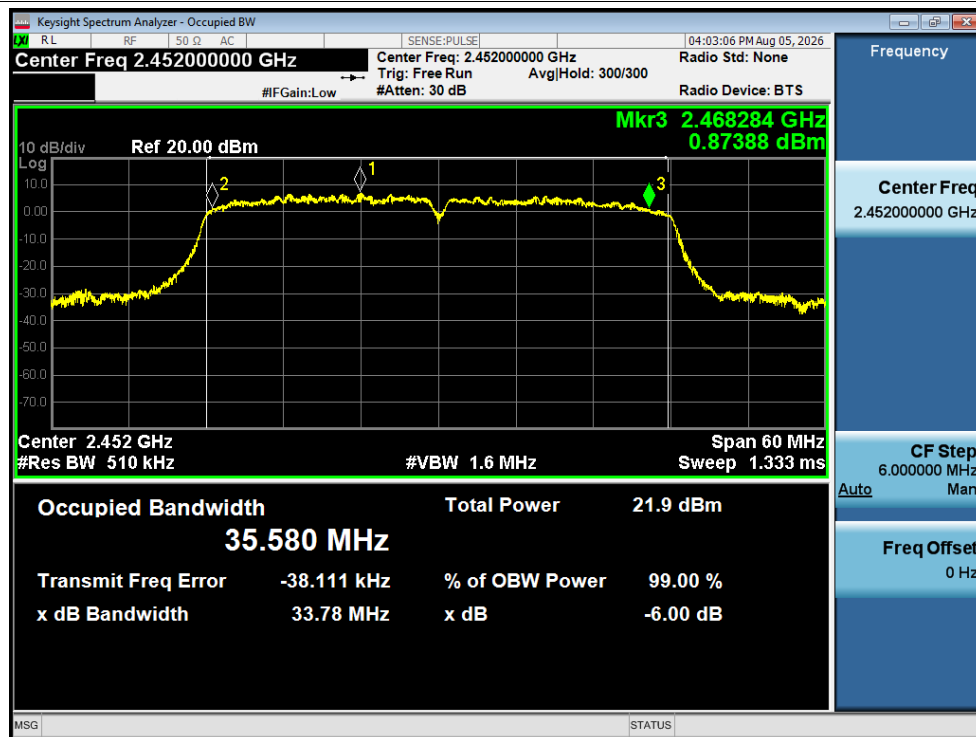


-6dB Bandwidth NVNT n40 2422MHz Ant1

Report



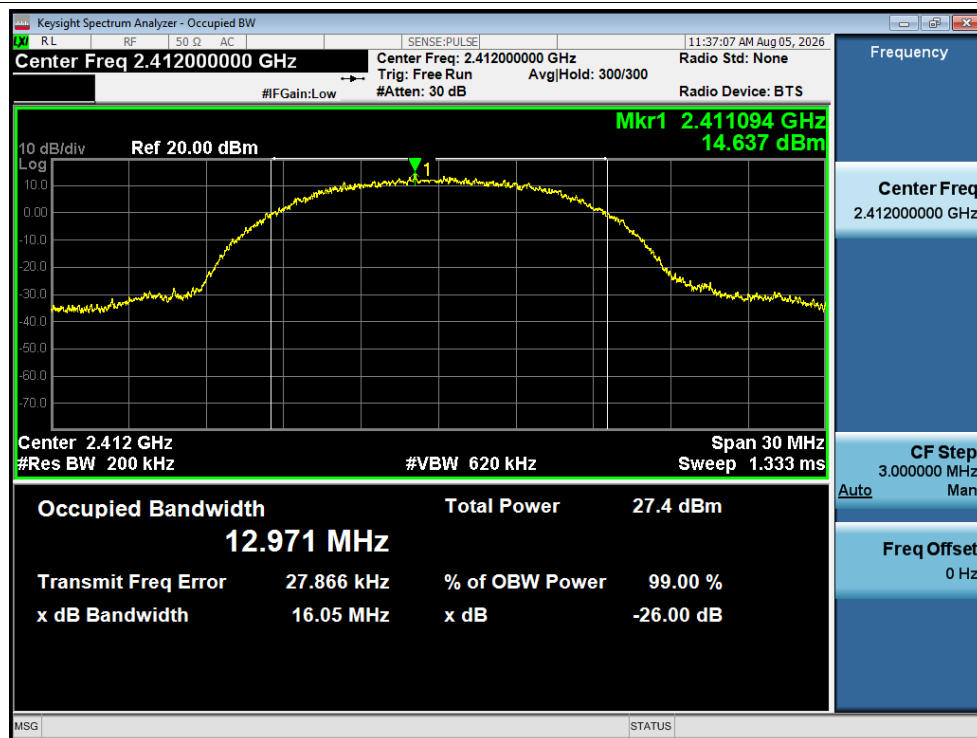
-6dB Bandwidth NVNT n40 2437MHz Ant1



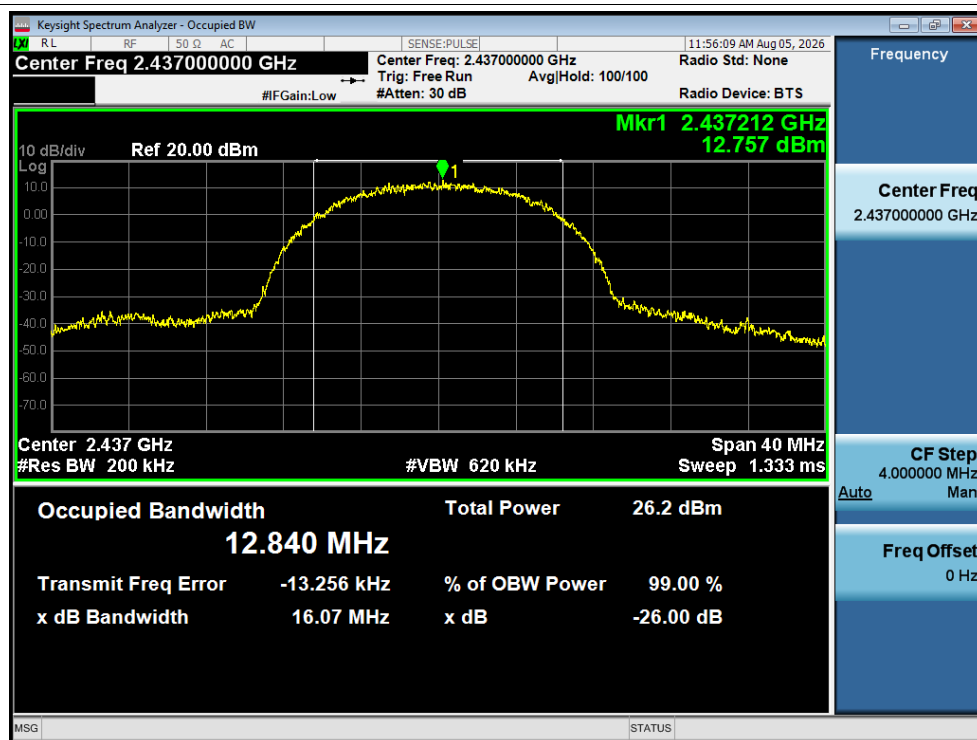
-6dB Bandwidth NVNT n40 2452MHz Ant1

Occupied Channel Bandwidth

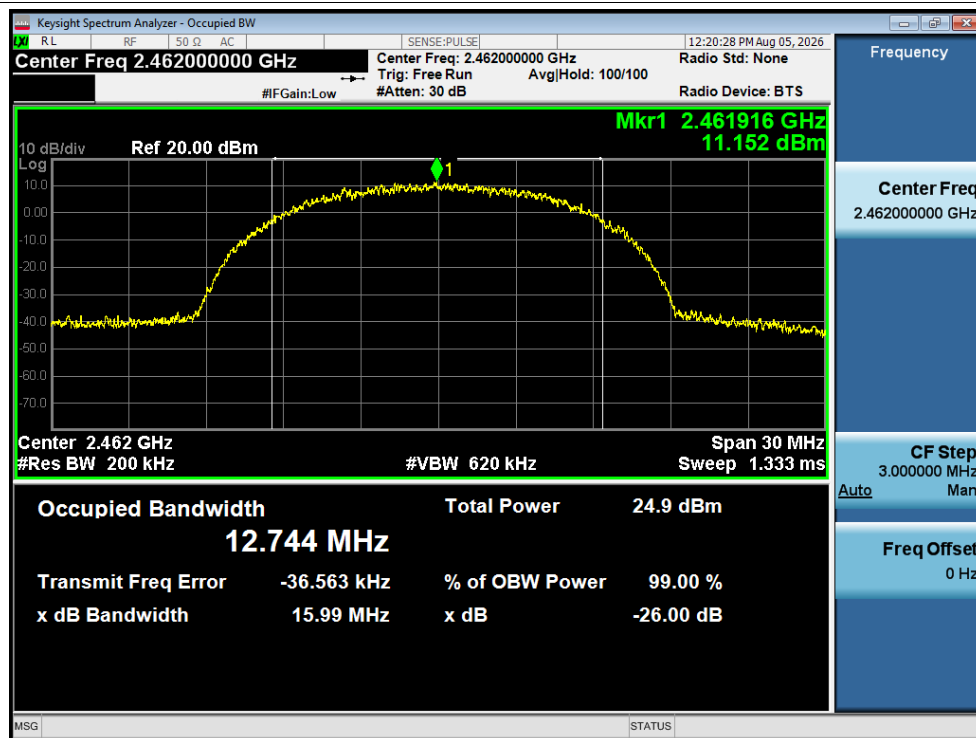
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	12.971
NVNT	b	2437	Ant1	12.84
NVNT	b	2462	Ant1	12.744
NVNT	g	2412	Ant1	16.417
NVNT	g	2437	Ant1	16.37
NVNT	g	2462	Ant1	16.397
NVNT	n20	2412	Ant1	17.372
NVNT	n20	2437	Ant1	17.363
NVNT	n20	2462	Ant1	17.363
NVNT	n40	2422	Ant1	35.615
NVNT	n40	2437	Ant1	35.589
NVNT	n40	2452	Ant1	35.582



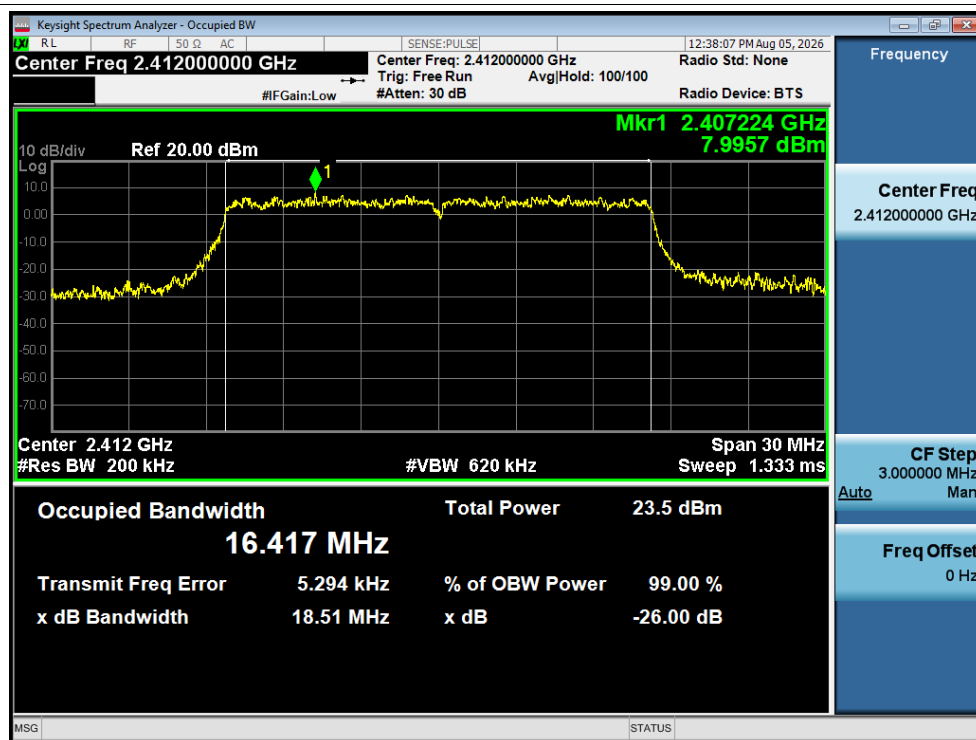
OBW NVNT b 2412MHz Ant1



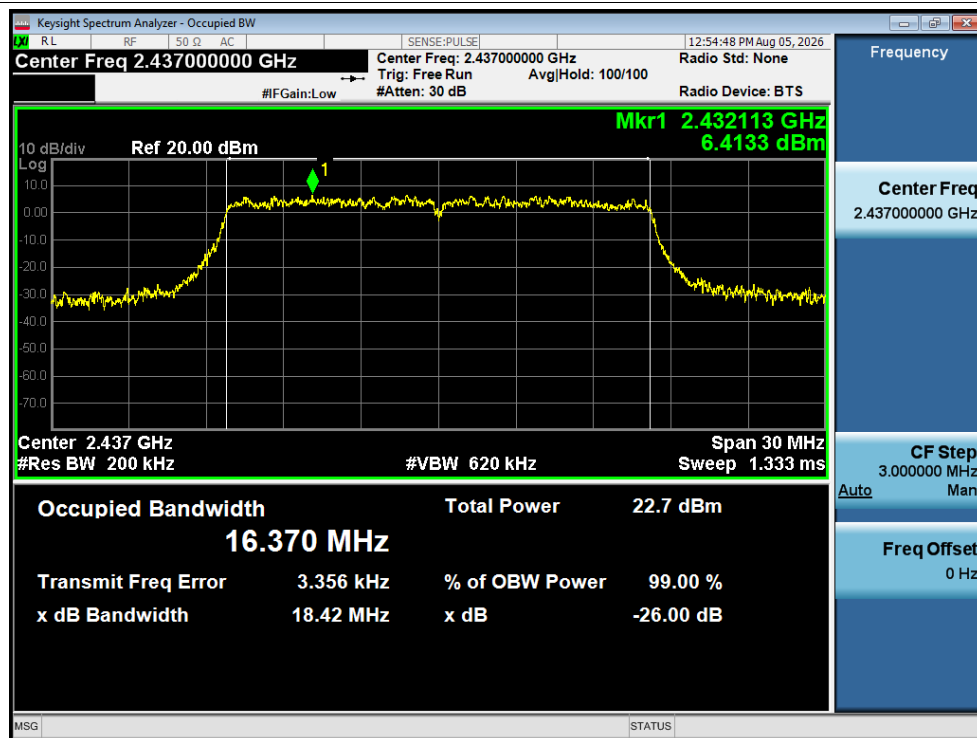
OBW NVNT b 2437MHz Ant1



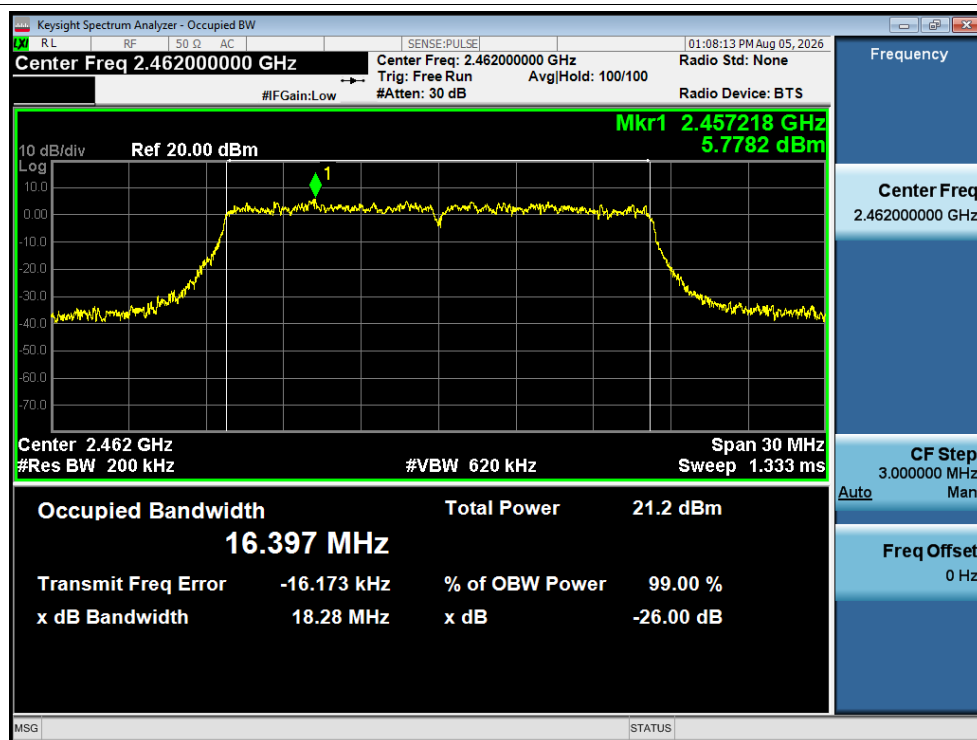
OBW NVNT b 2462MHz Ant1



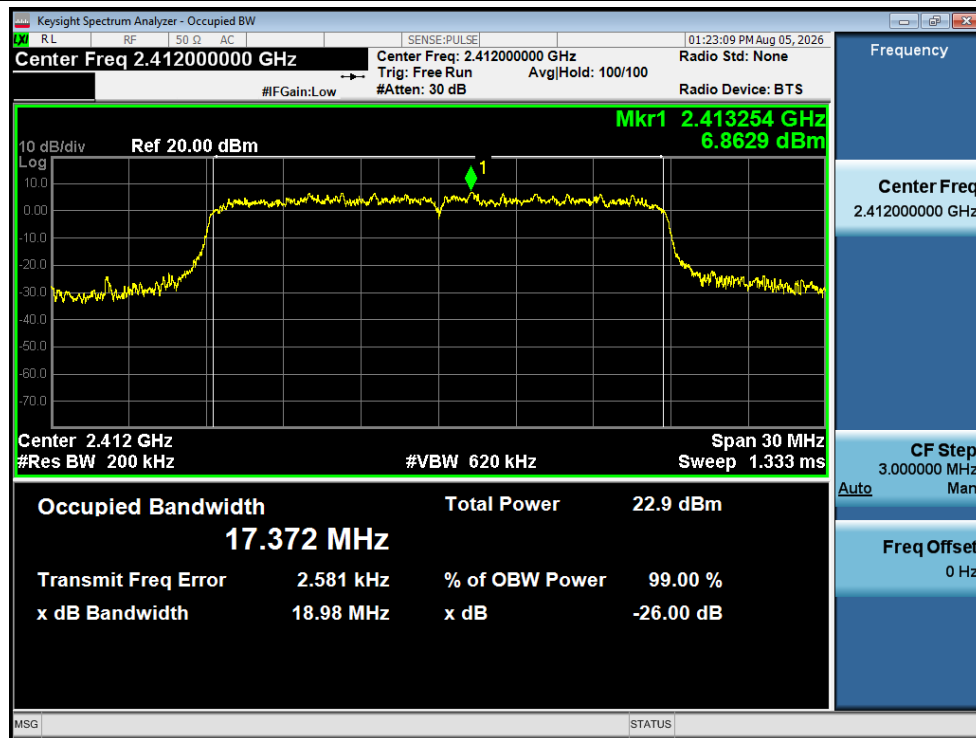
OBW NVNT g 2412MHz Ant1



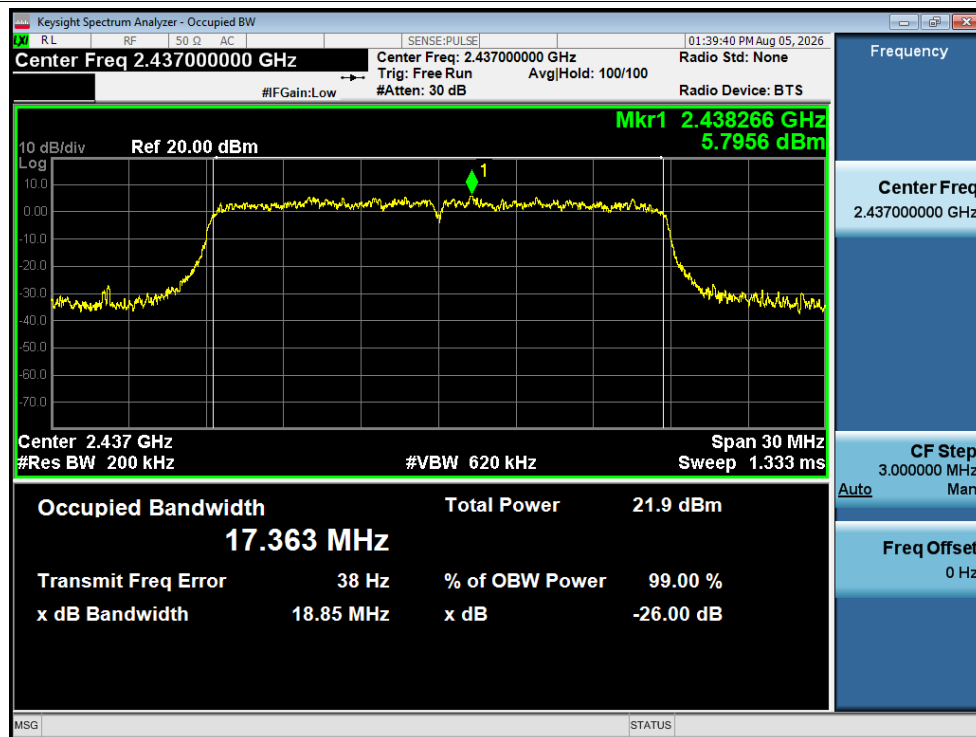
OBW NVNT g 2437MHz Ant1



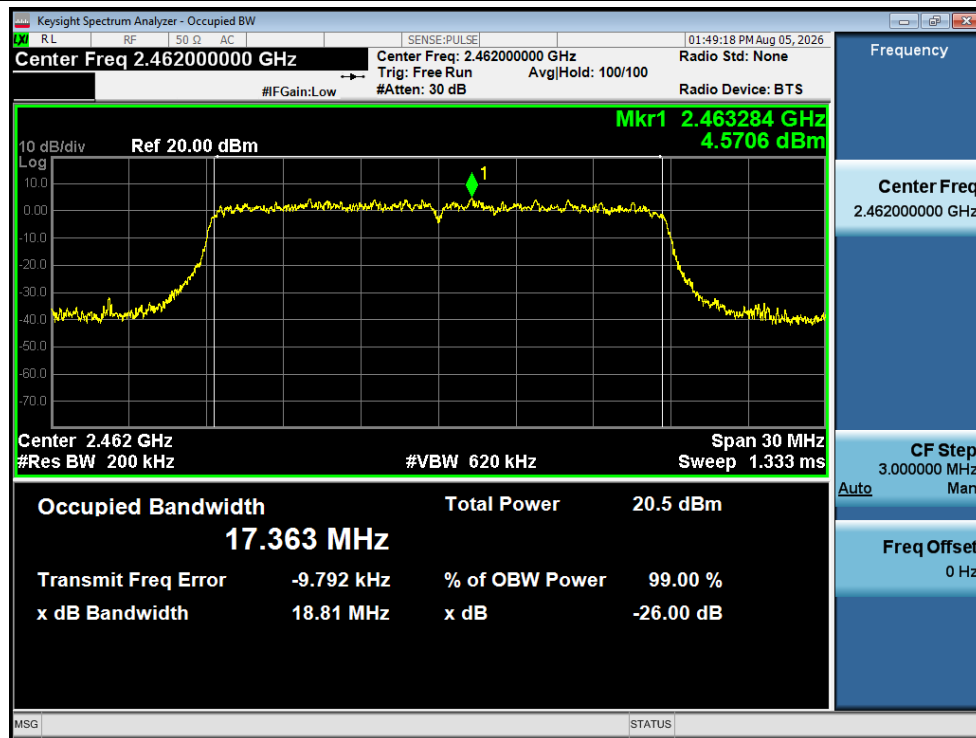
OBW NVNT g 2462MHz Ant1



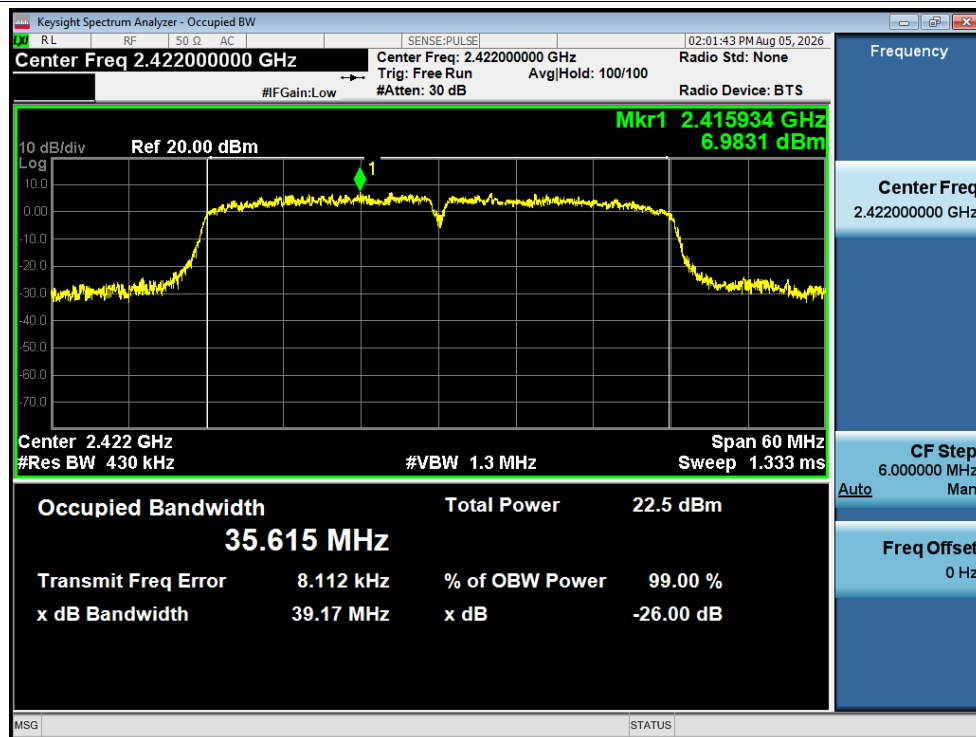
OBW NVNT n20 2412MHz Ant1



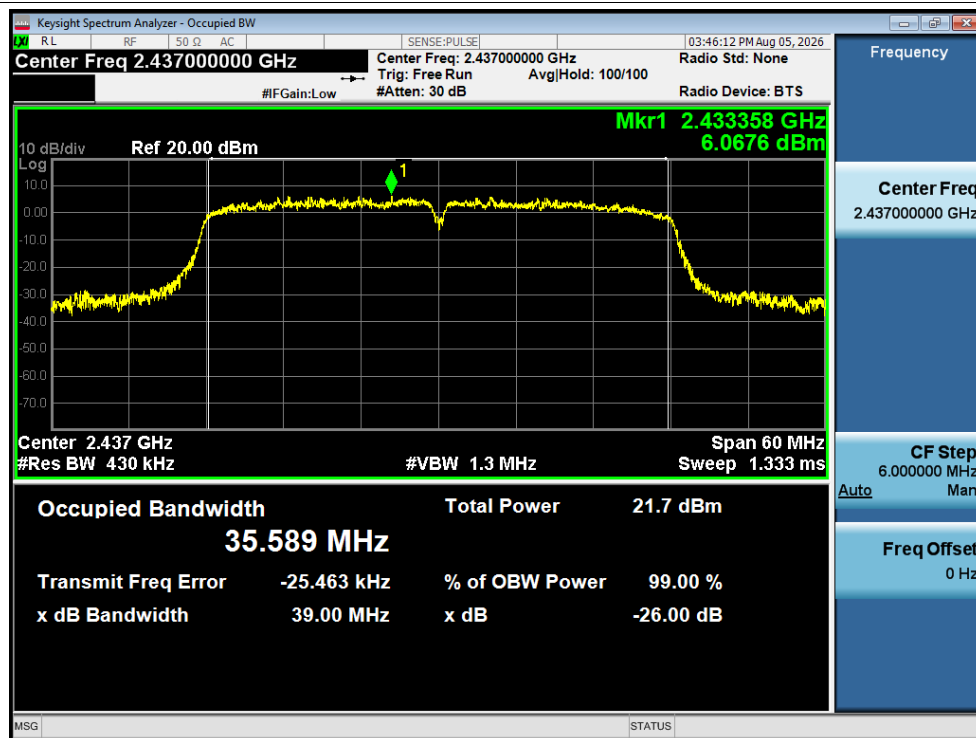
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OBW NVNT n20 2462MHz Ant1



OBW NVNT n40 2422MHz Ant1



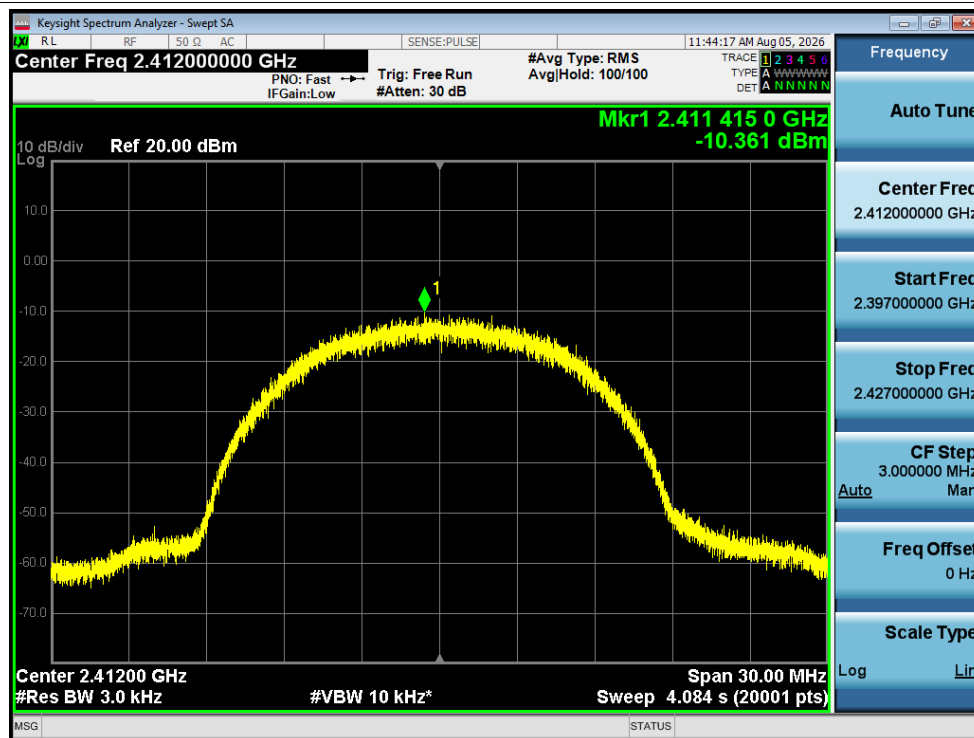
OBW NVNT n40 2437MHz Ant1



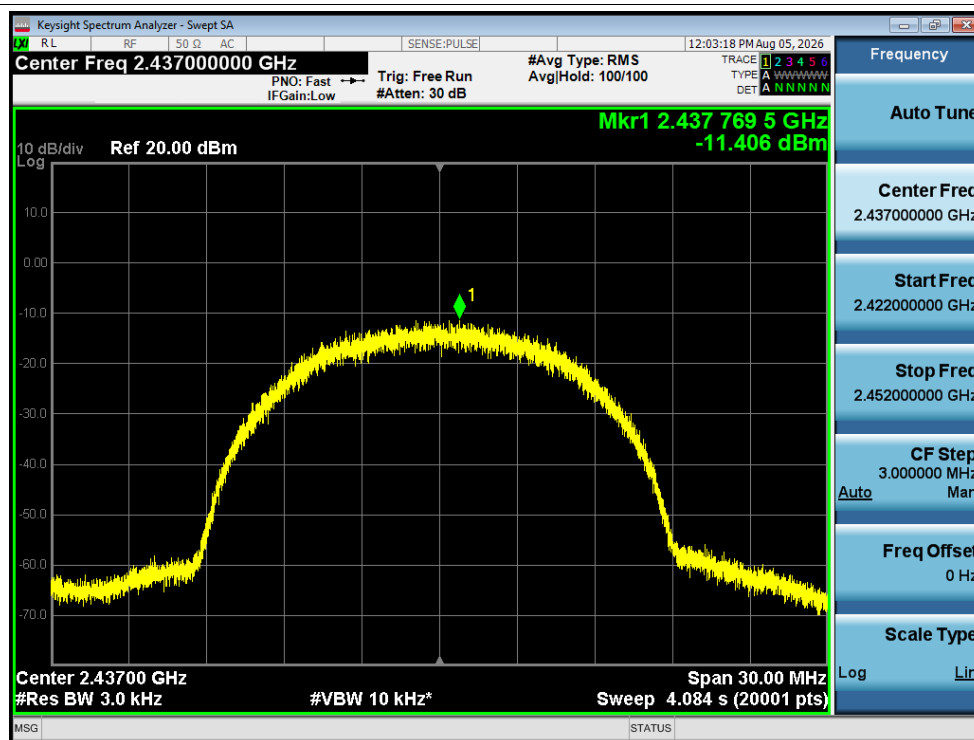
OBW NVNT n40 2452MHz Ant1

Maximum Power Spectral Density Level

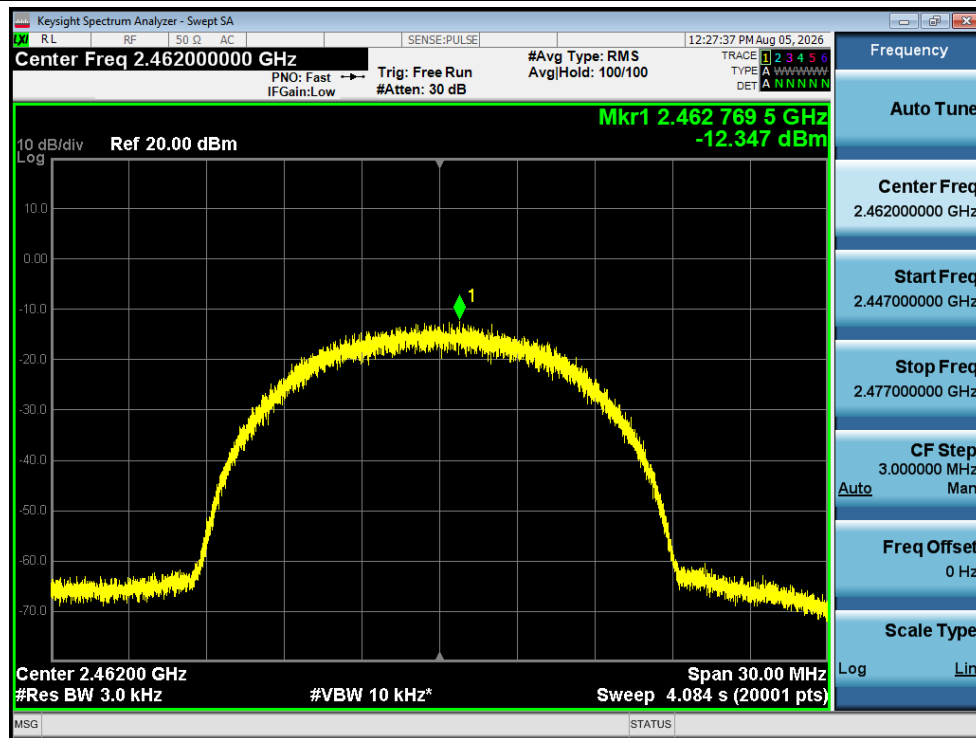
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-10.36	0.05	-10.31	8	Pass
NVNT	b	2437	Ant1	-11.41	0.05	-11.36	8	Pass
NVNT	b	2462	Ant1	-12.35	0.05	-12.3	8	Pass
NVNT	g	2412	Ant1	-12.04	0.23	-11.81	8	Pass
NVNT	g	2437	Ant1	-13.04	0.23	-12.81	8	Pass
NVNT	g	2462	Ant1	-14.7	0.23	-14.47	8	Pass
NVNT	n20	2412	Ant1	-13.22	0.26	-12.96	8	Pass
NVNT	n20	2437	Ant1	-13.82	0.26	-13.56	8	Pass
NVNT	n20	2462	Ant1	-14.99	0.26	-14.73	8	Pass
NVNT	n40	2422	Ant1	-14.69	0.47	-14.22	8	Pass
NVNT	n40	2437	Ant1	-15.08	0.47	-14.61	8	Pass
NVNT	n40	2452	Ant1	-15.7	0.49	-15.21	8	Pass



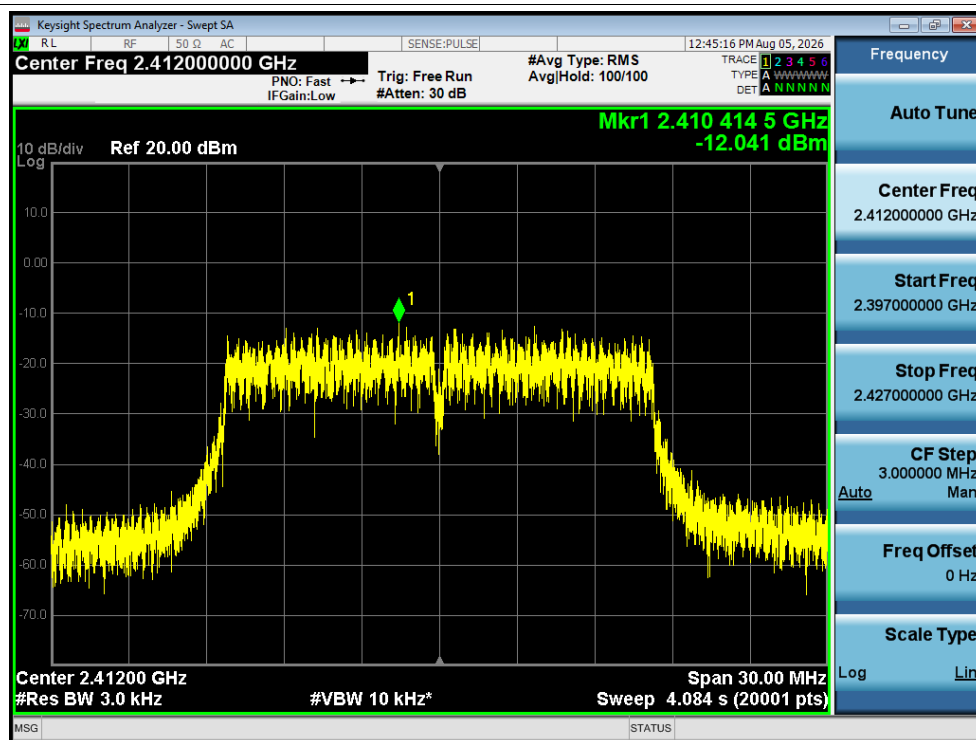
PSD NVNT b 2412MHz Ant1



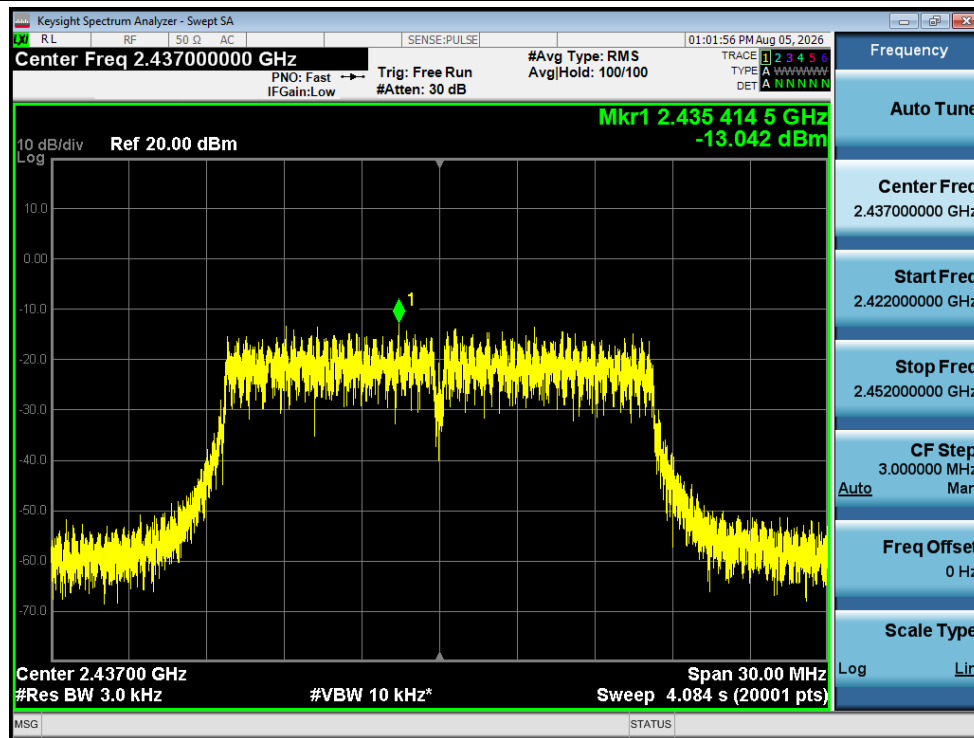
PSD NVNT b 2437MHz Ant1



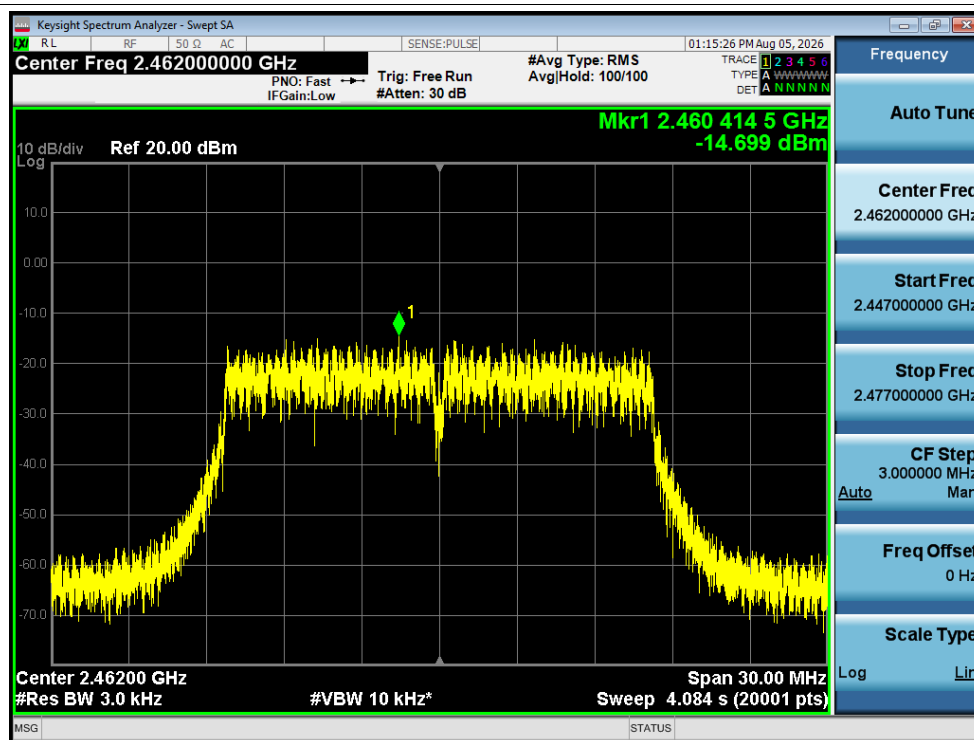
PSD NVNT b 2462MHz Ant1



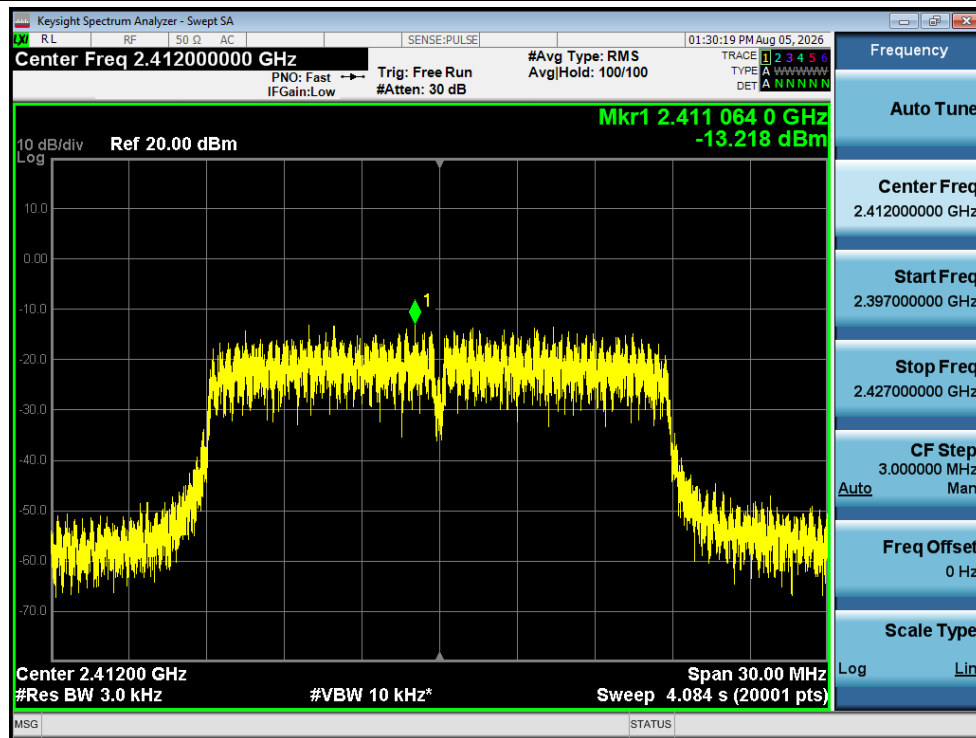
PSD NVNT g 2412MHz Ant1



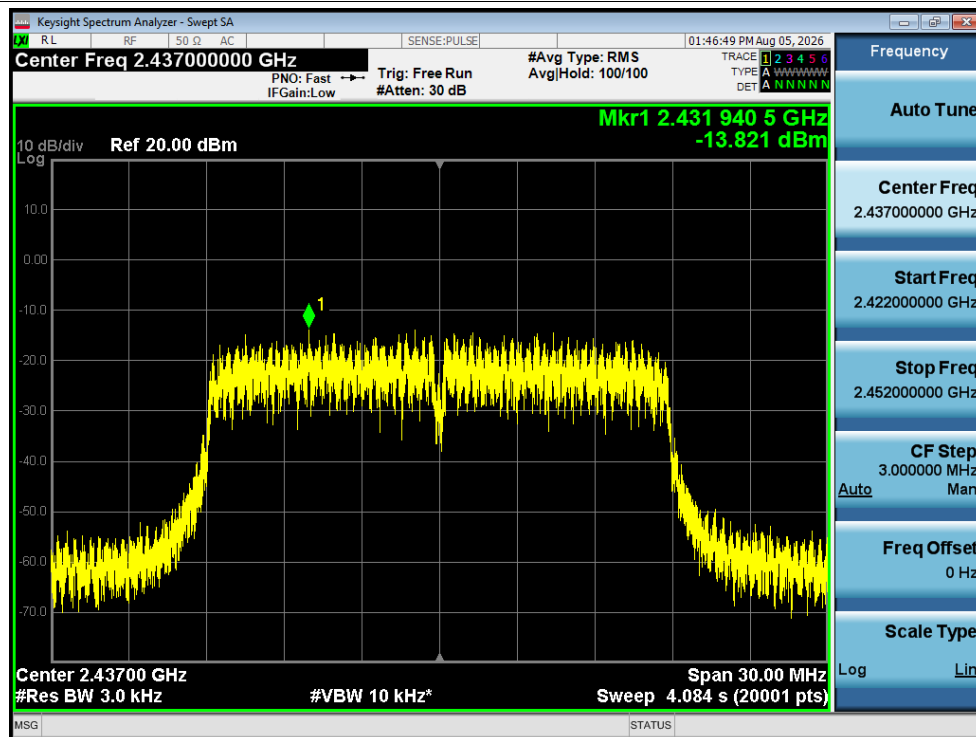
PSD NVNT g 2437MHz Ant1



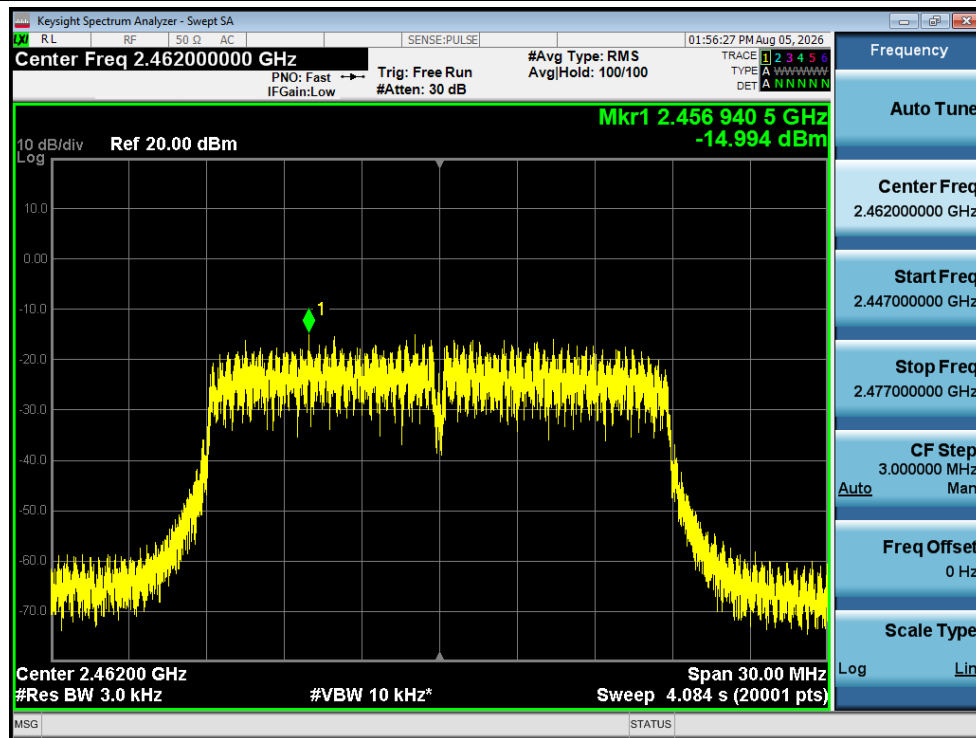
PSD NVNT g 2462MHz Ant1



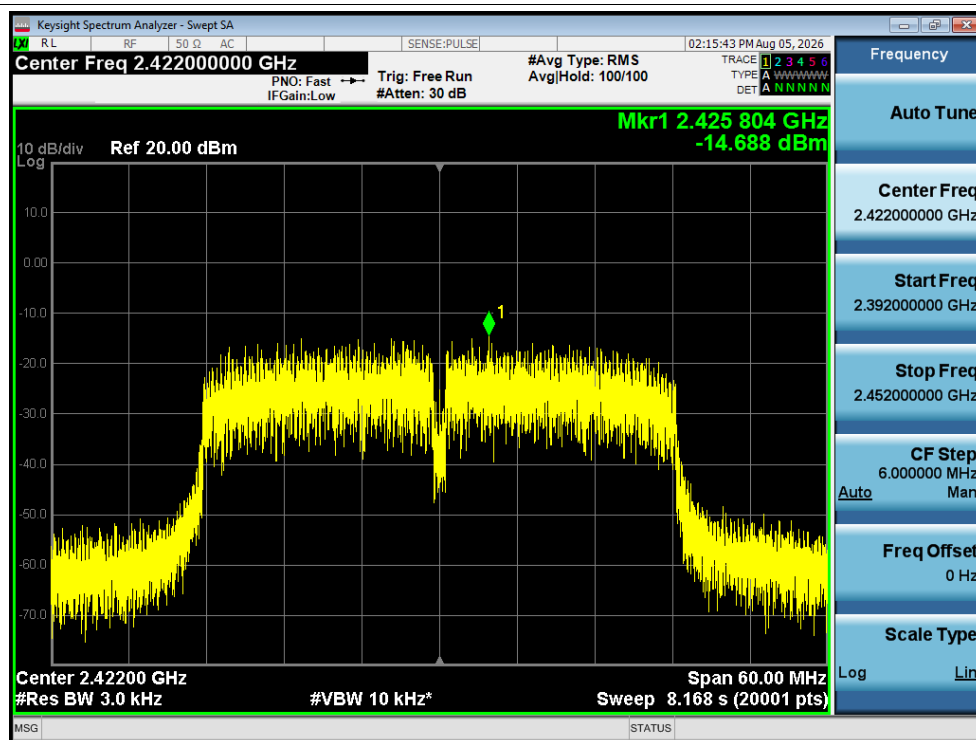
PSD NVNT n20 2412MHz Ant1



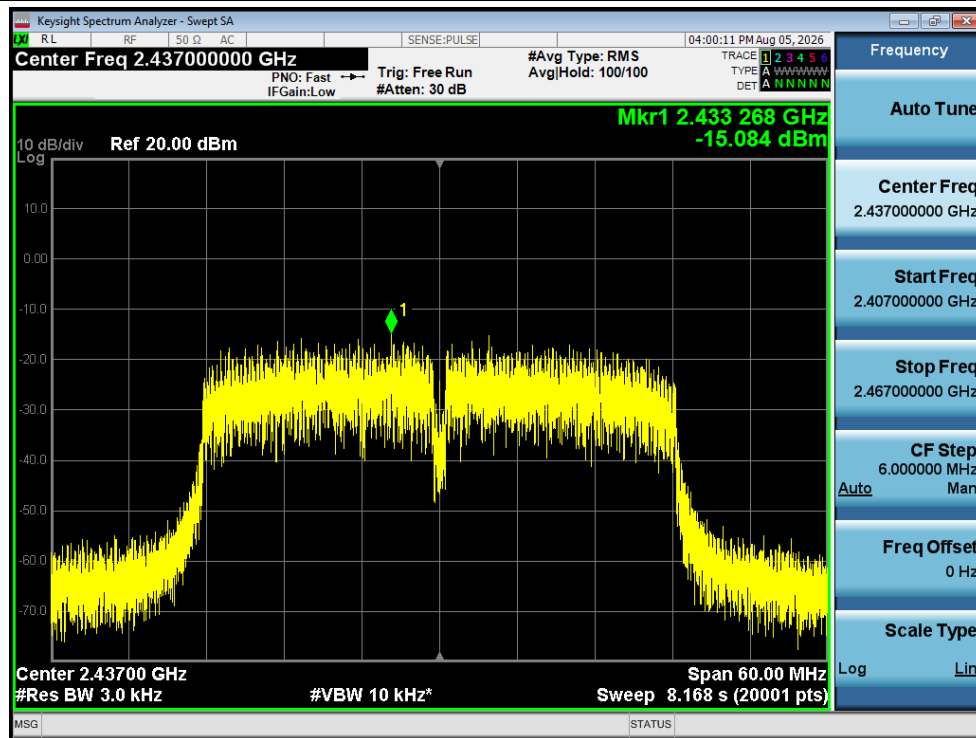
PSD NVNT n20 2437MHz Ant1



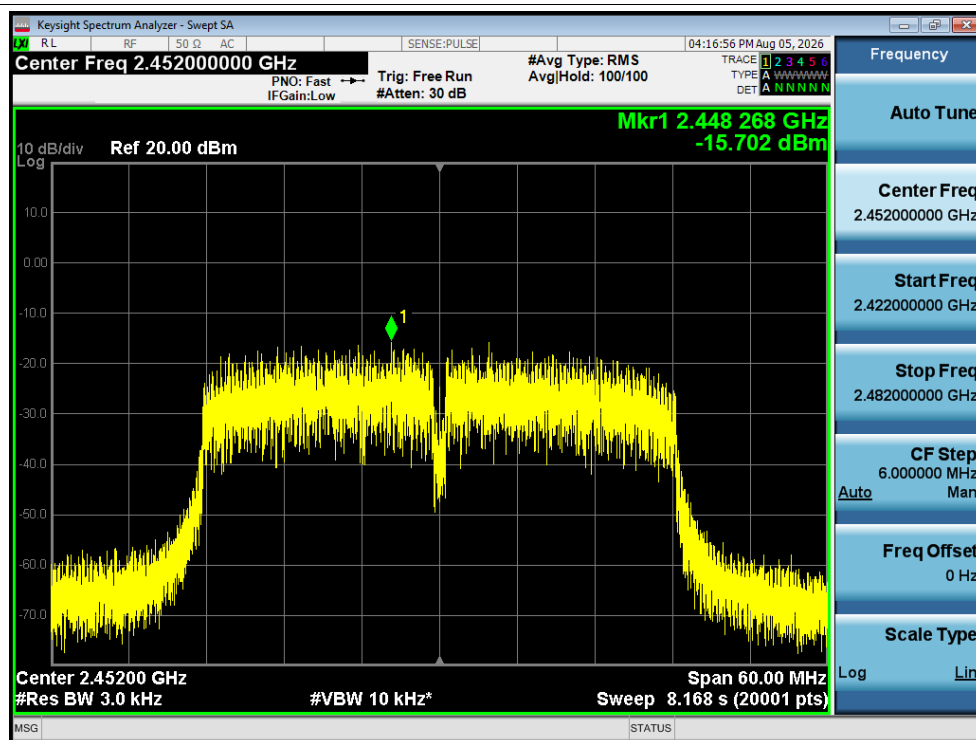
PSD NVNT n20 2462MHz Ant1



PSD NVNT n40 2422MHz Ant1



PSD NVNT n40 2437MHz Ant1

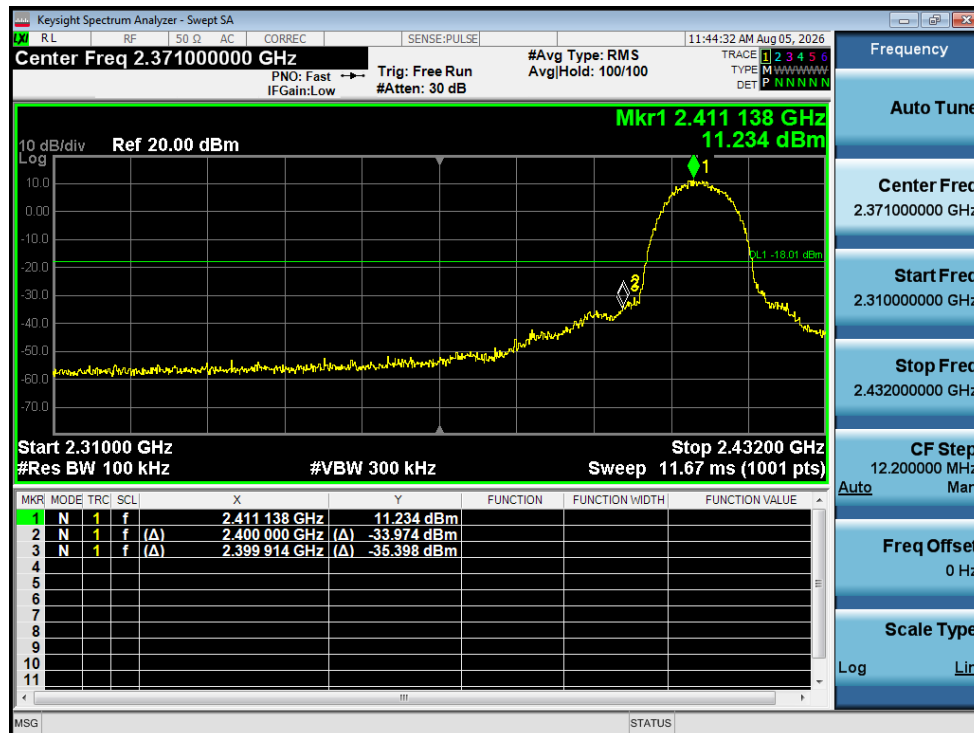


PSD NVNT n40 2452MHz Ant1

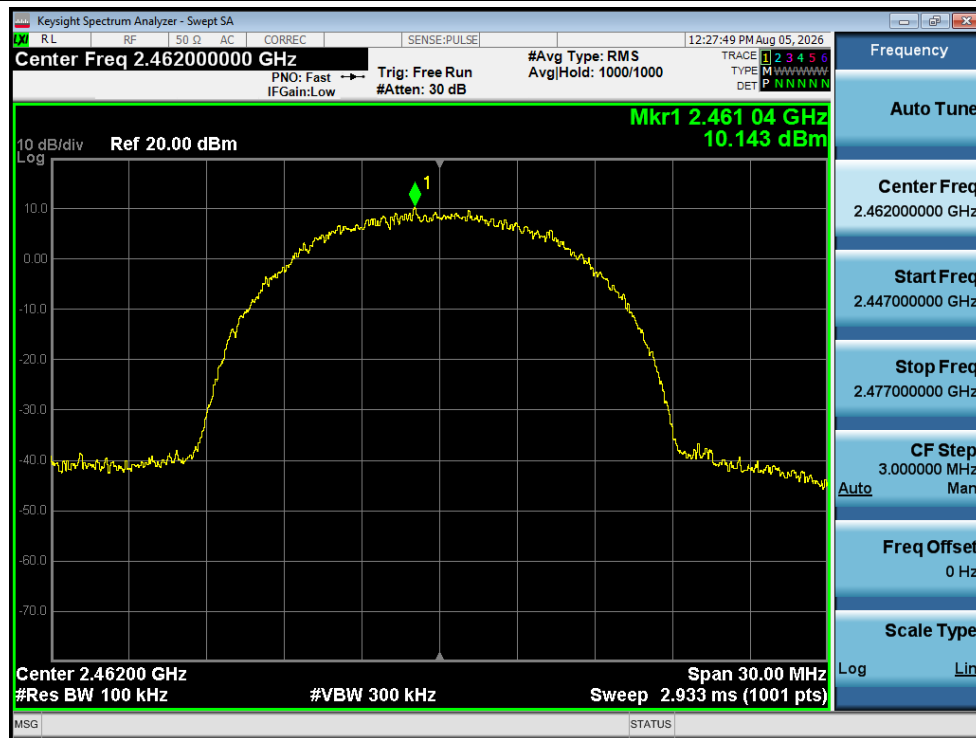
Band Edge



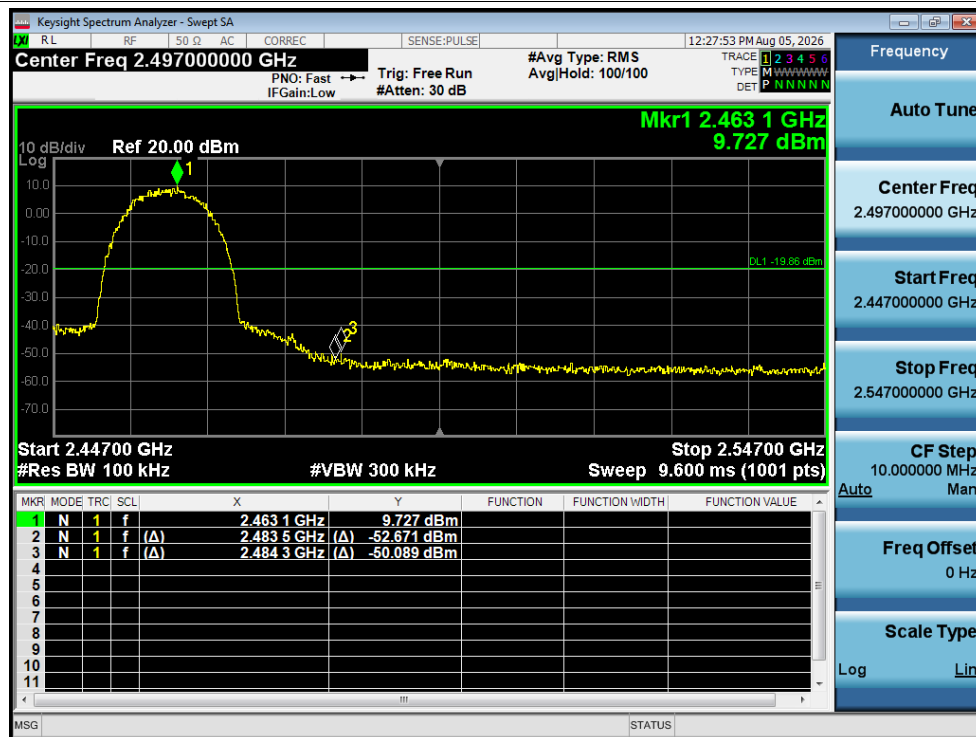
Band Edge NVNT b 2412MHz Ant1 Ref



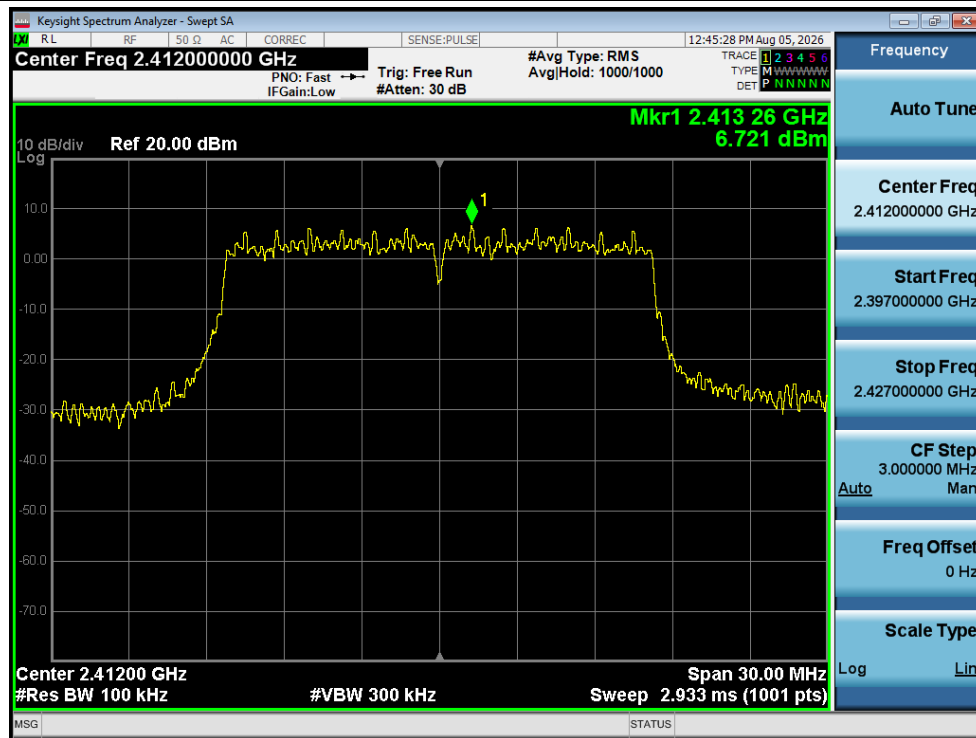
Band Edge NVNT b 2412MHz Ant1 Emission



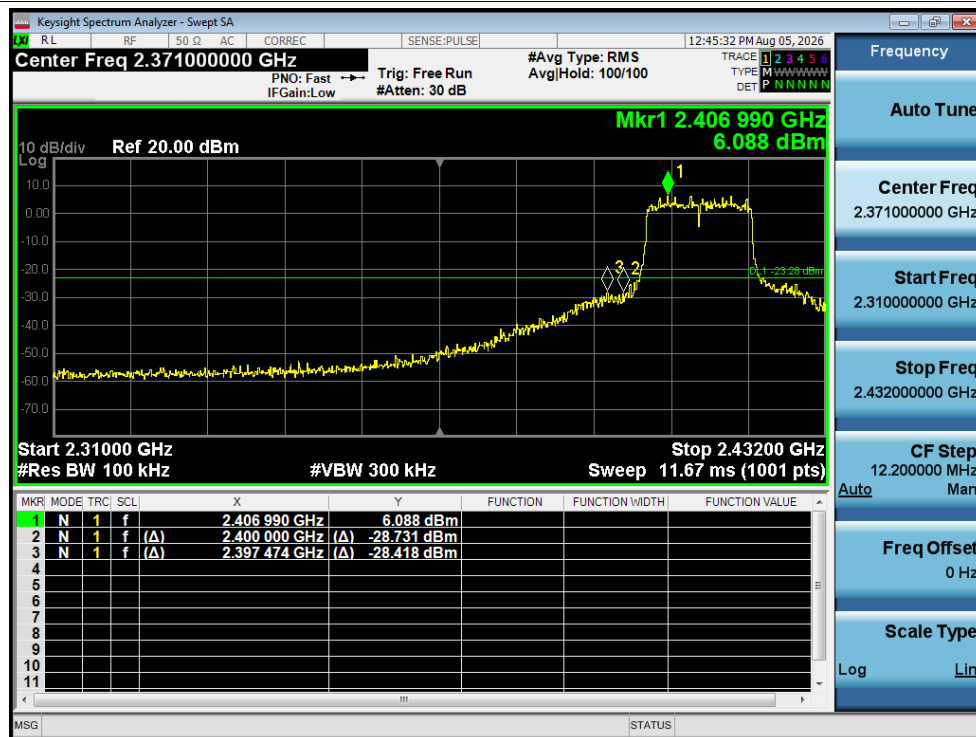
Band Edge NVNT b 2462MHz Ant1 Ref



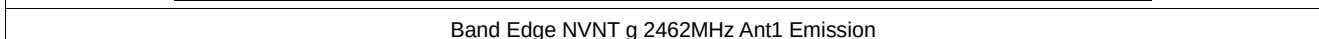
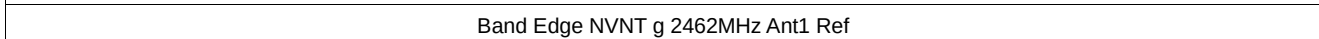
Band Edge NVNT b 2462MHz Ant1 Emission

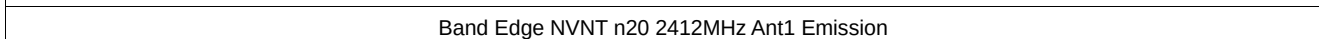
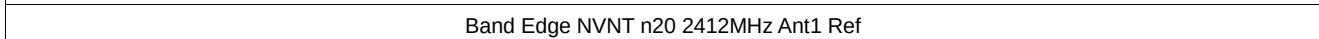


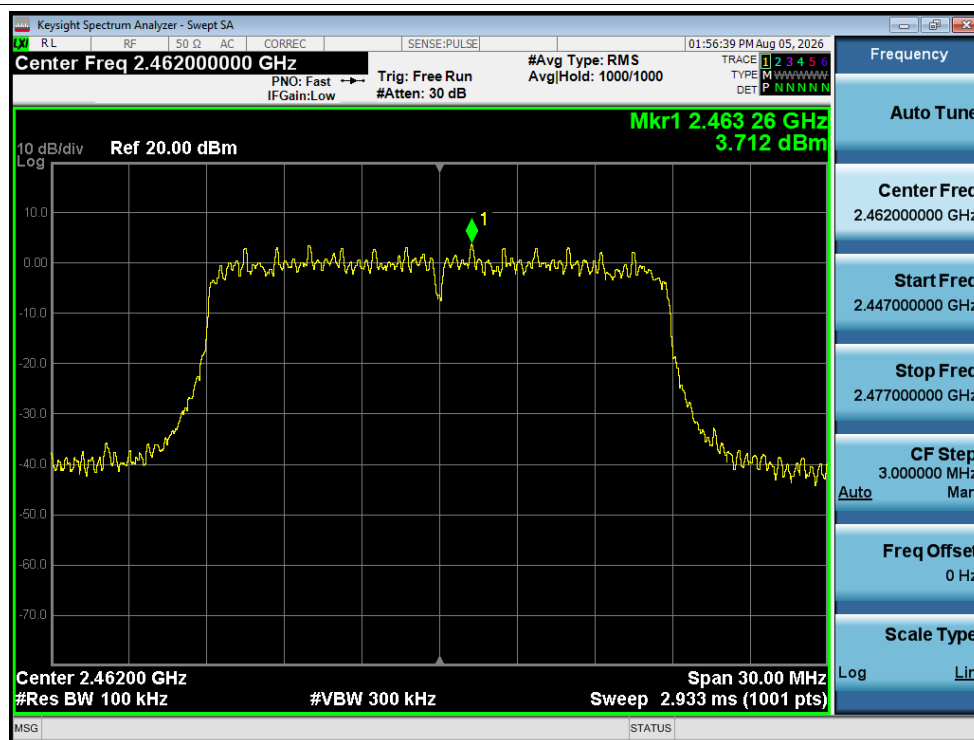
Band Edge NVNT g 2412MHz Ant1 Ref



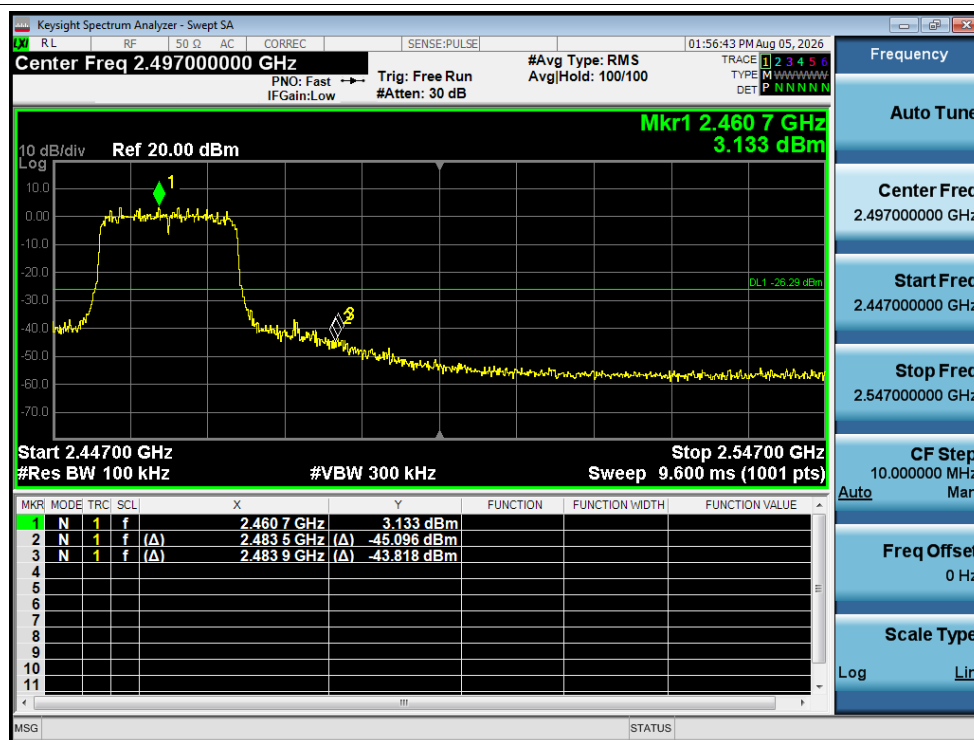
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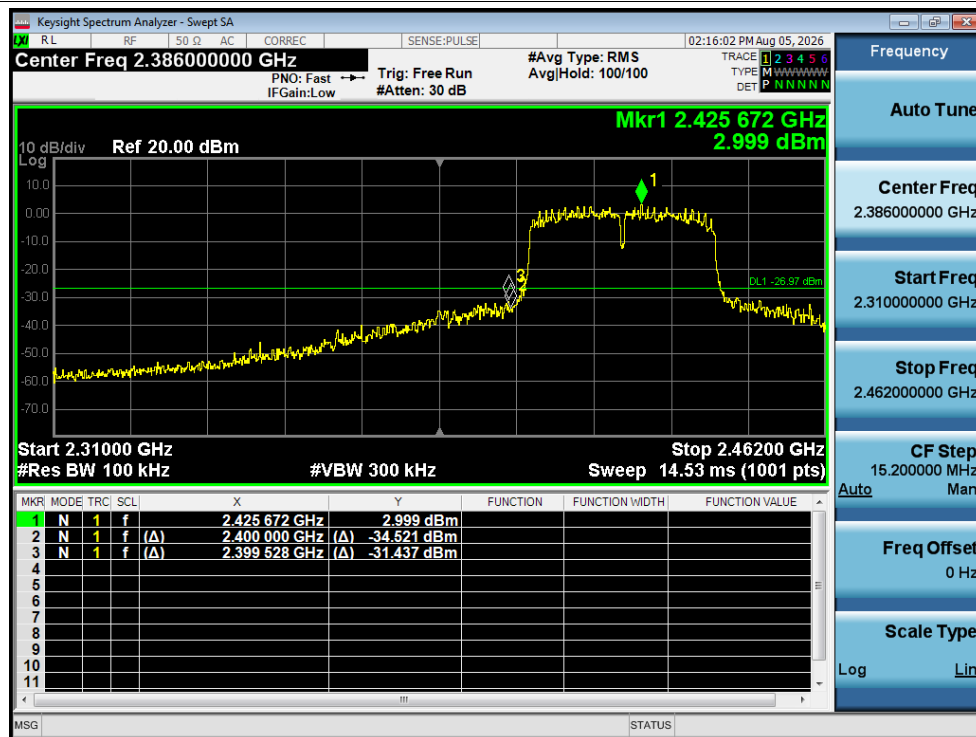
Band Edge NVNT n20 2462MHz Ant1 Ref



Band Edge NVNT n20 2462MHz Ant1 Emission



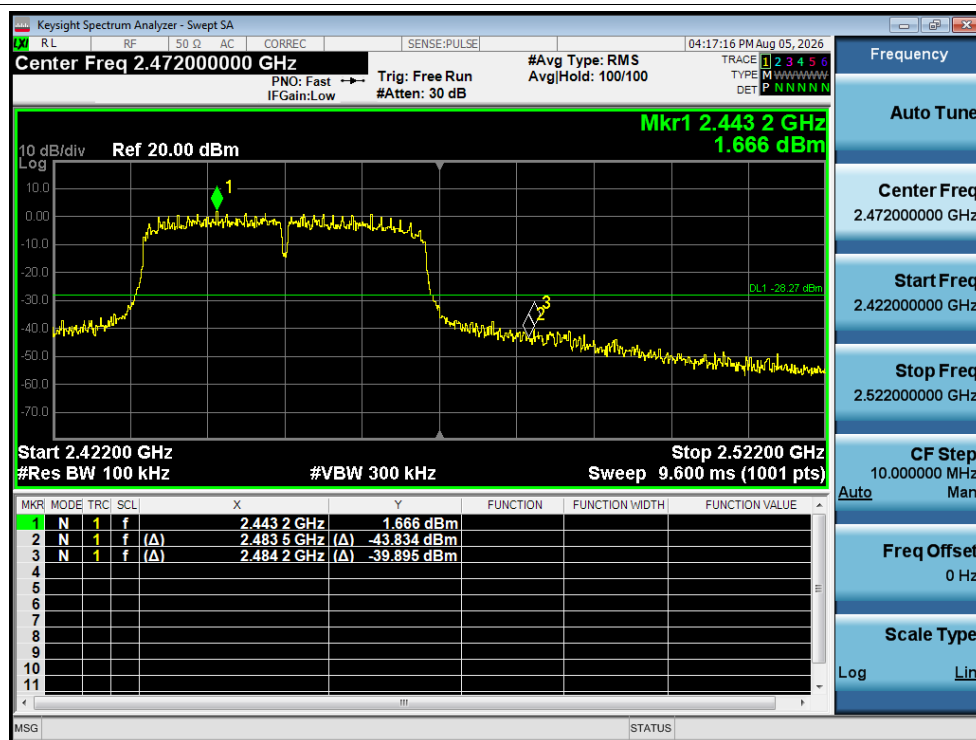
Band Edge NVNT n40 2422MHz Ant1 Ref



Band Edge NVNT n40 2422MHz Ant1 Emission



Band Edge NVNT n40 2452MHz Ant1 Ref

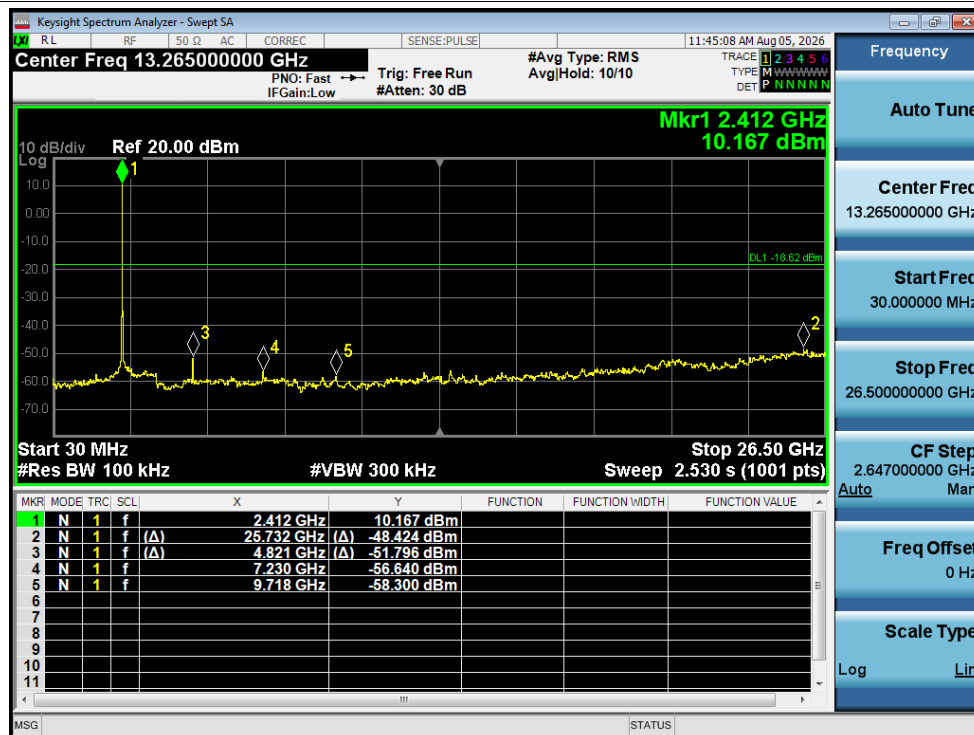


Band Edge NVNT n40 2452MHz Ant1 Emission

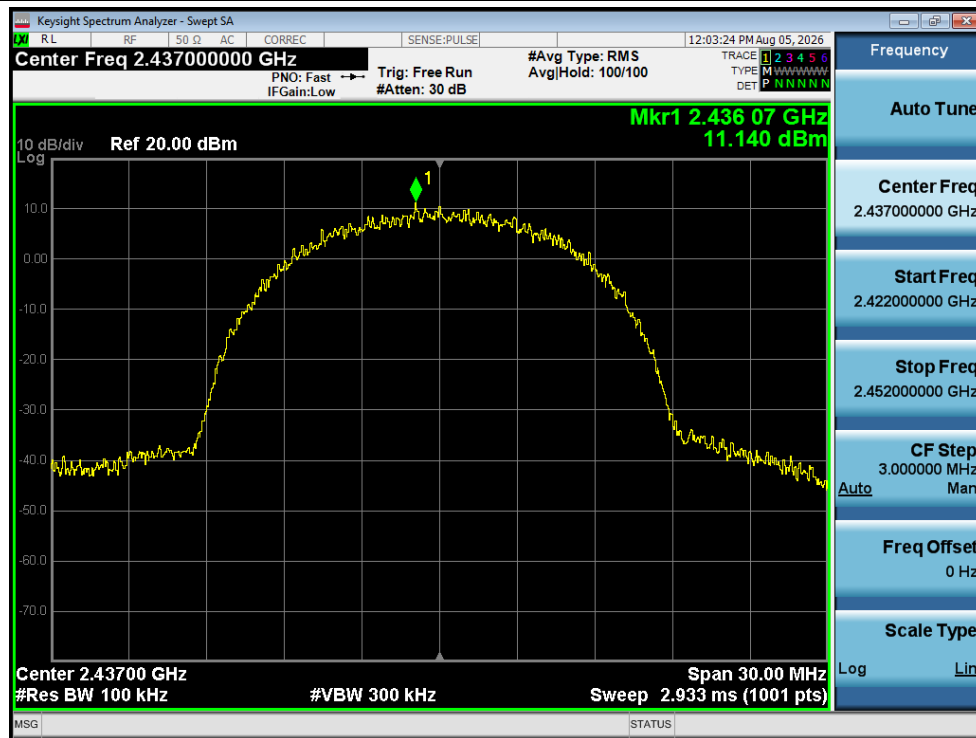
Conducted RF Spurious Emission



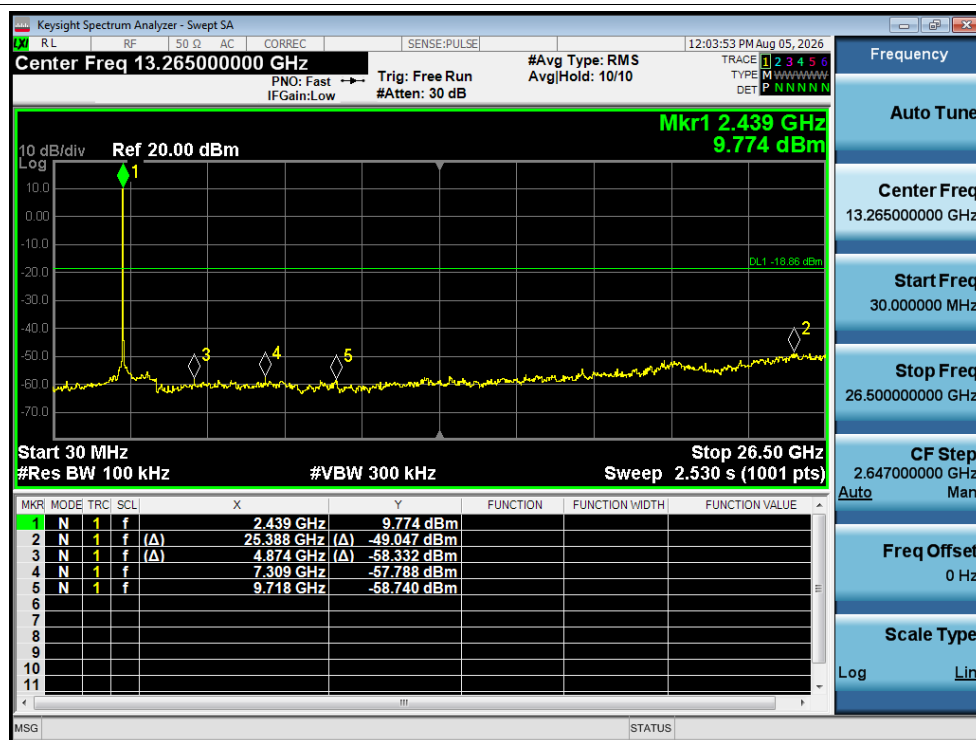
Tx. Spurious NVNT b 2412MHz Ant1 Ref



Tx. Spurious NVNT b 2412MHz Ant1 Emission



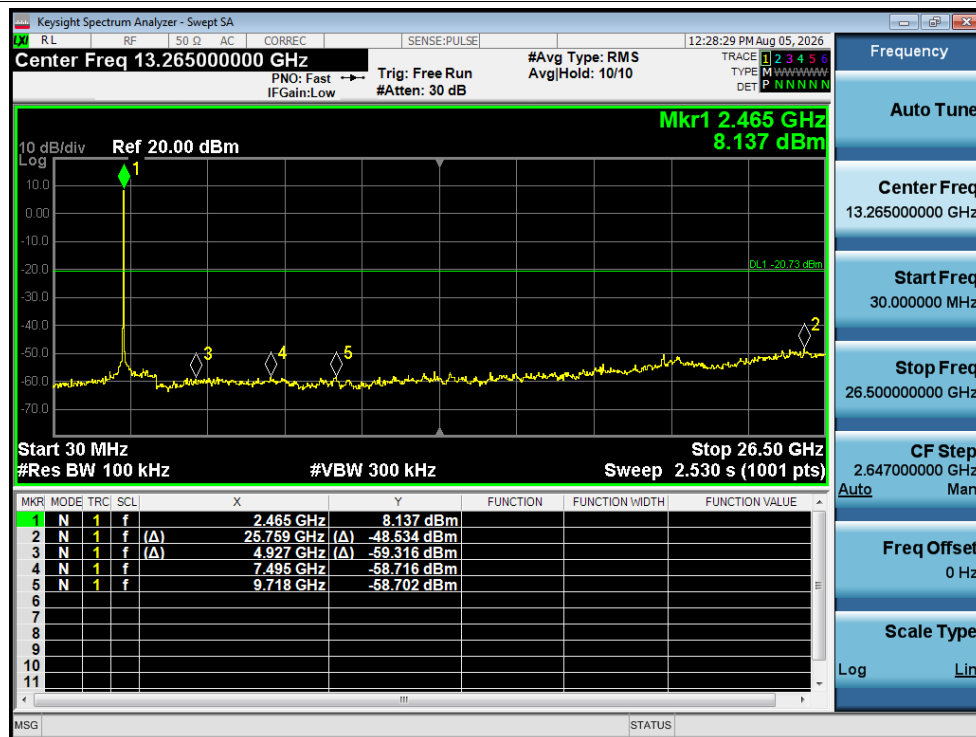
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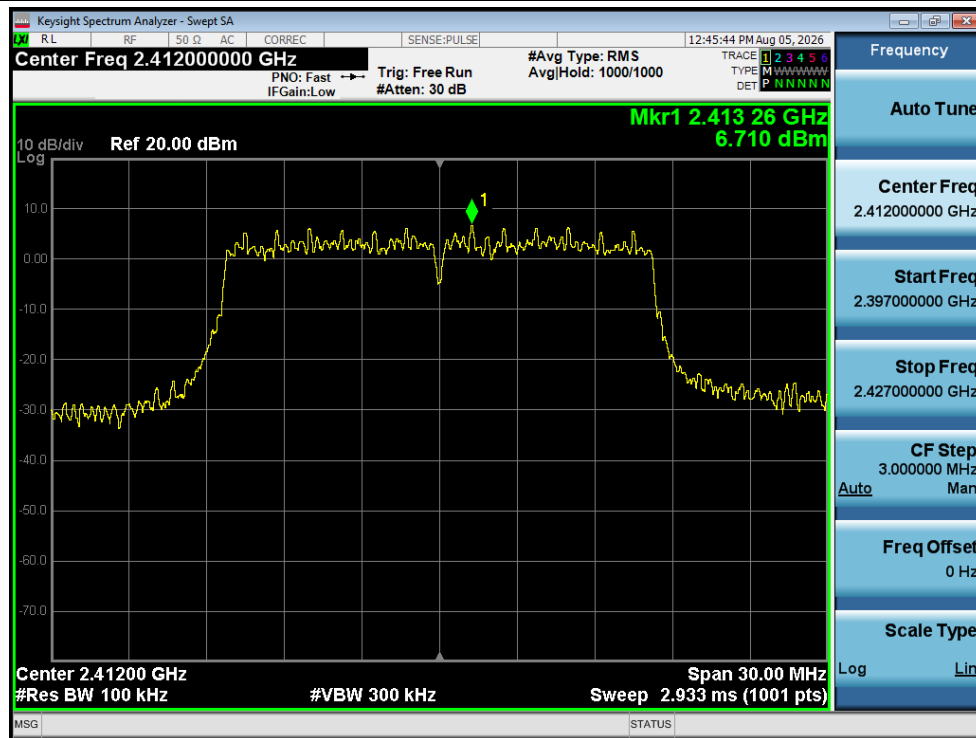
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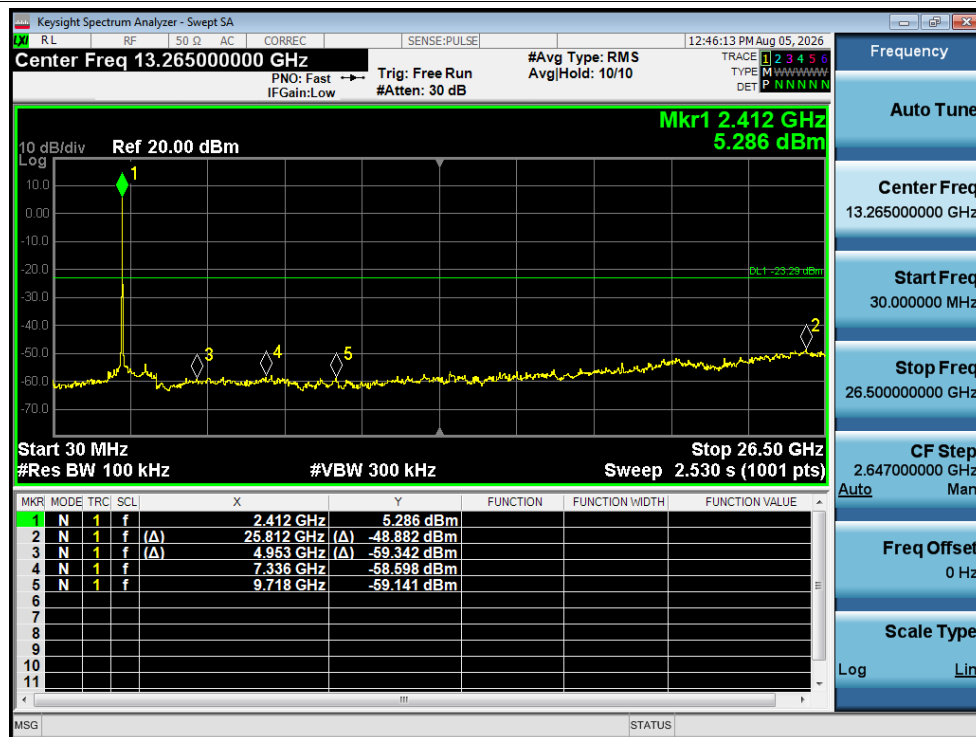
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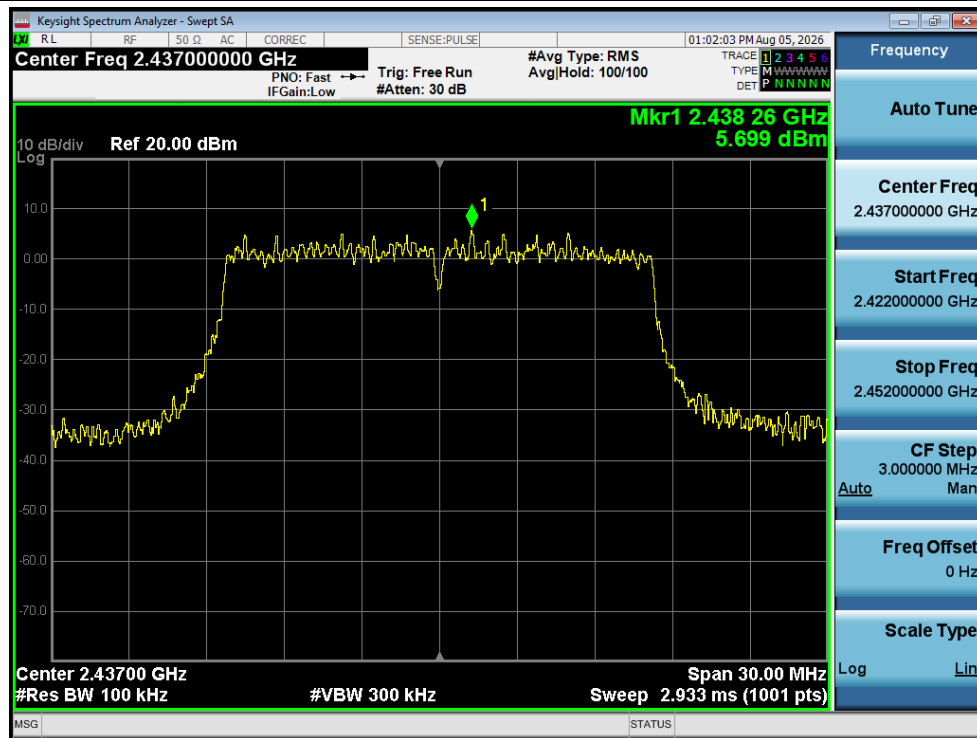
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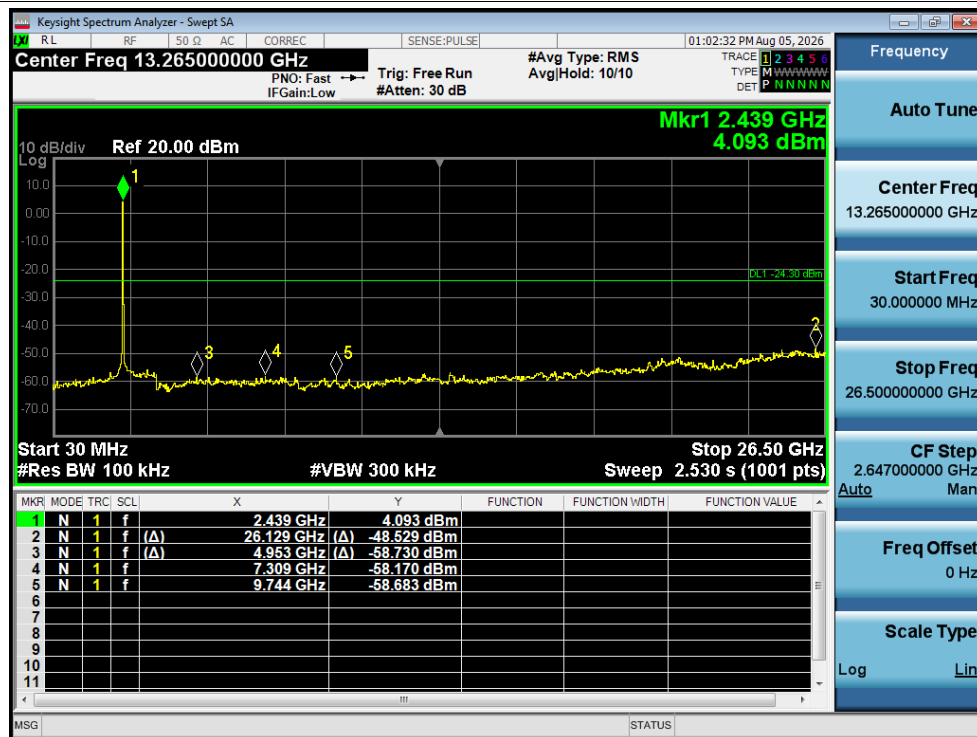
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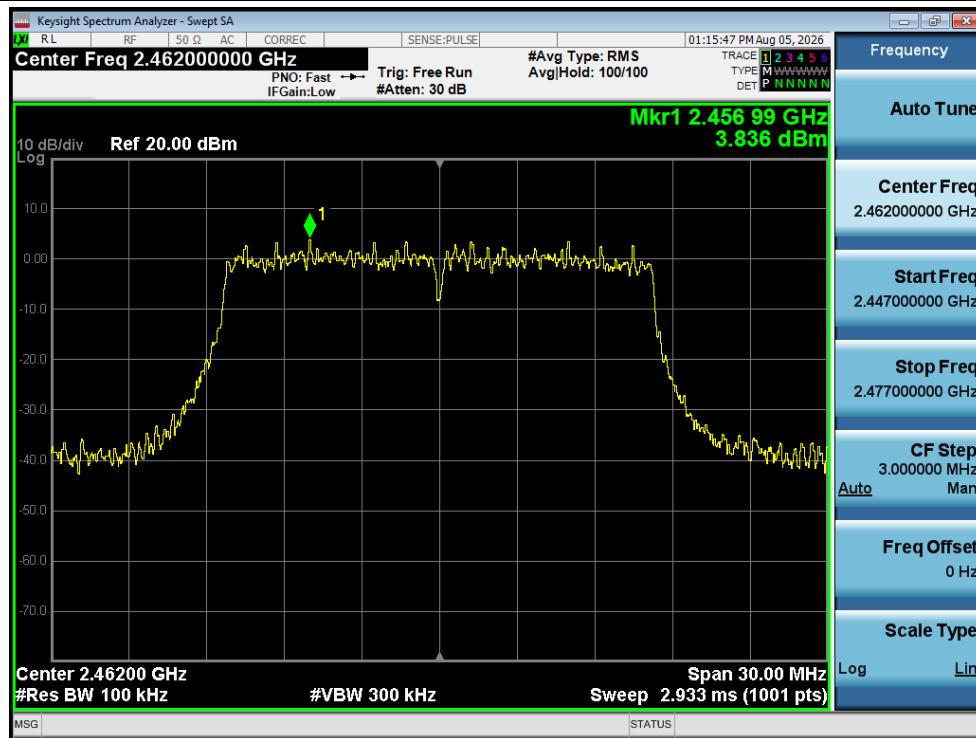
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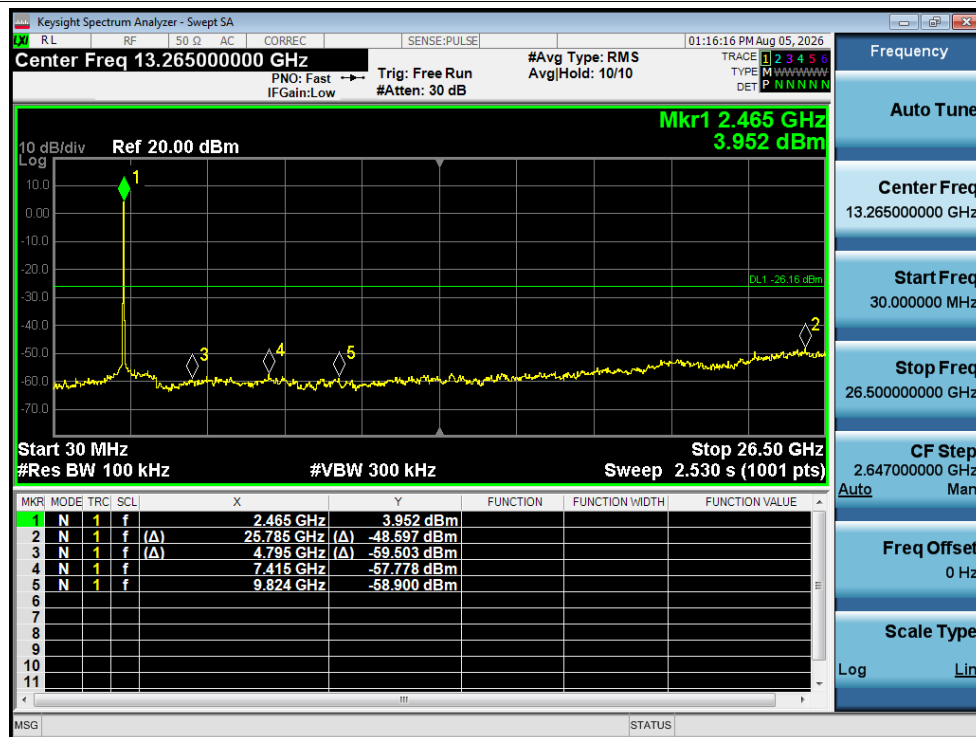
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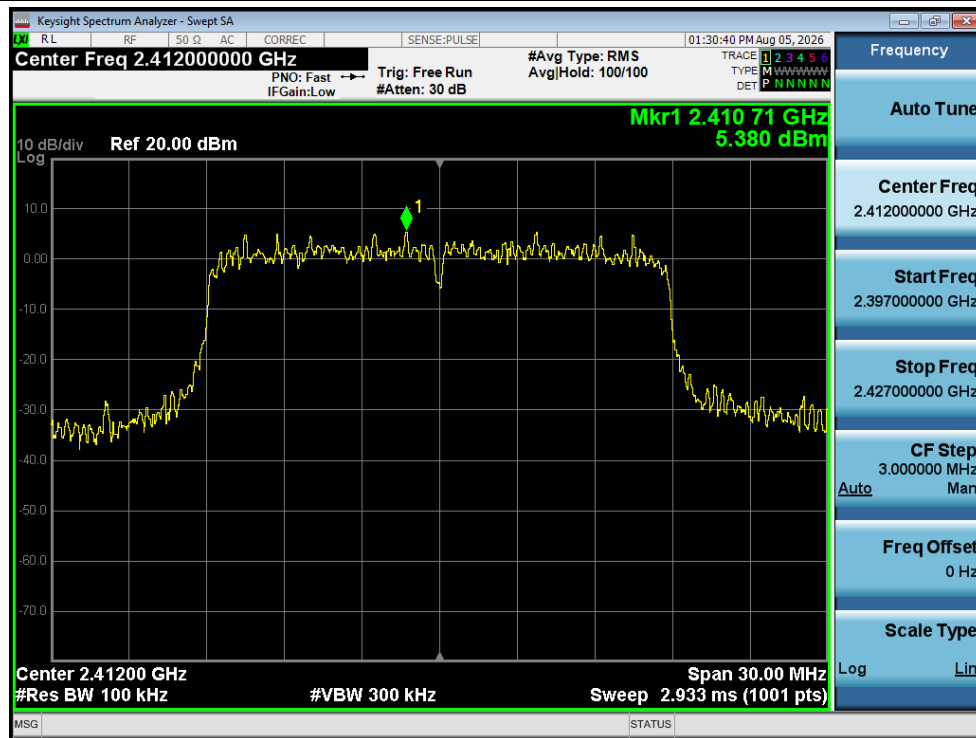
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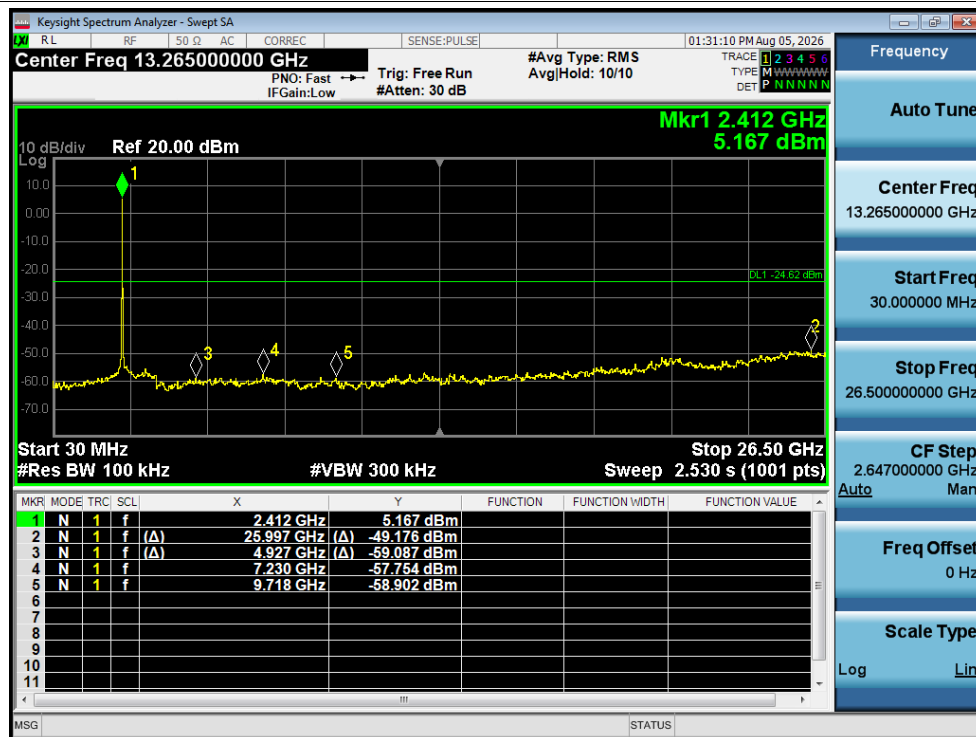
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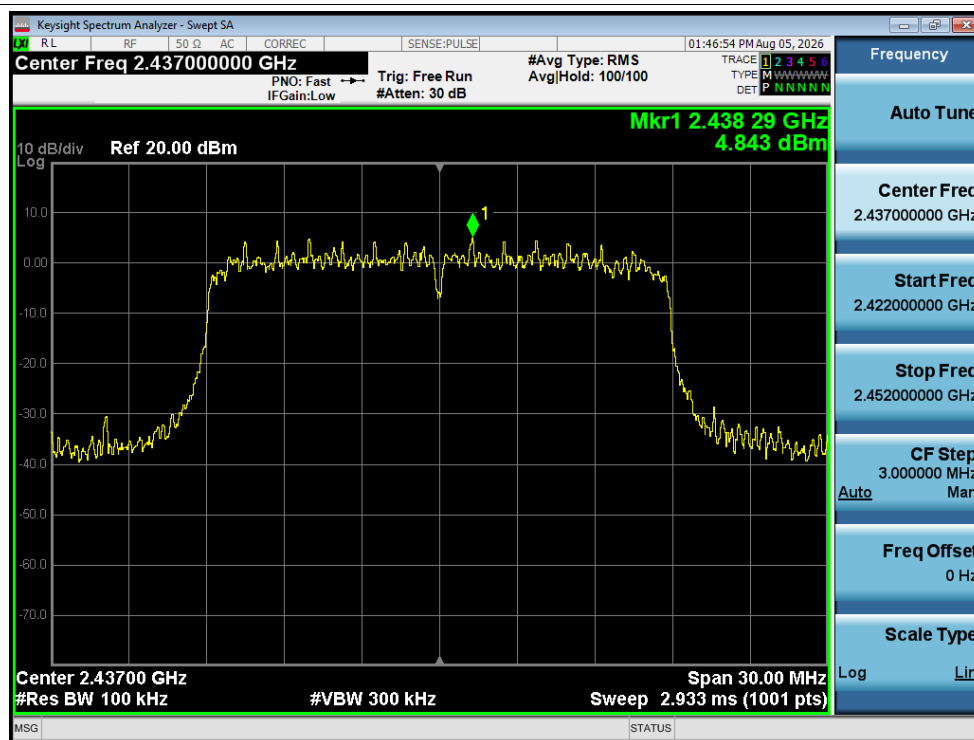
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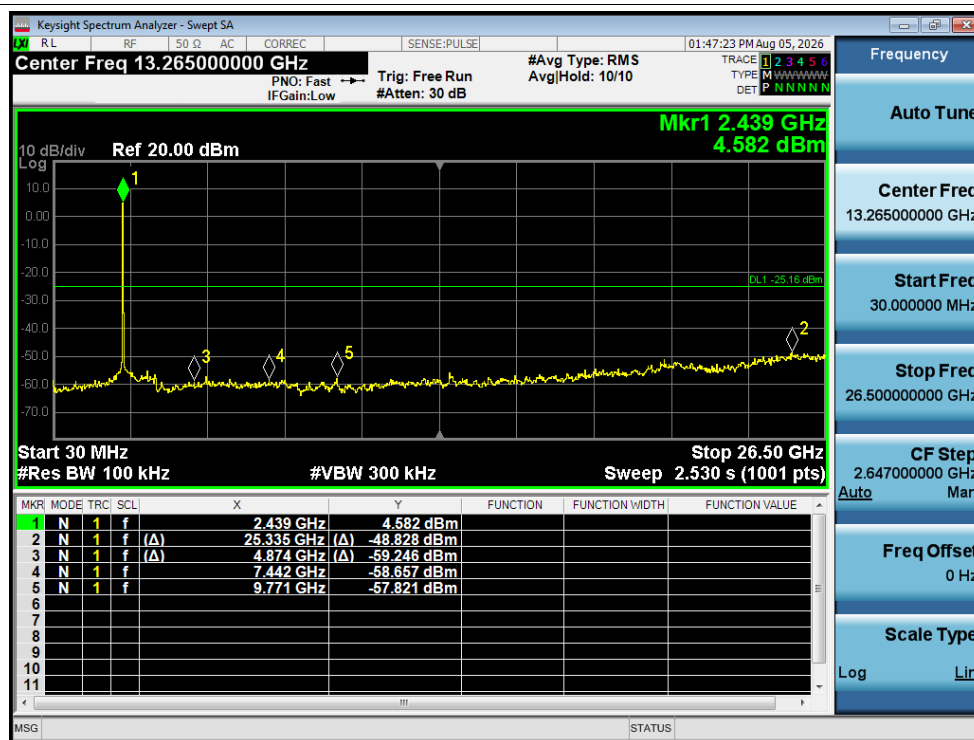
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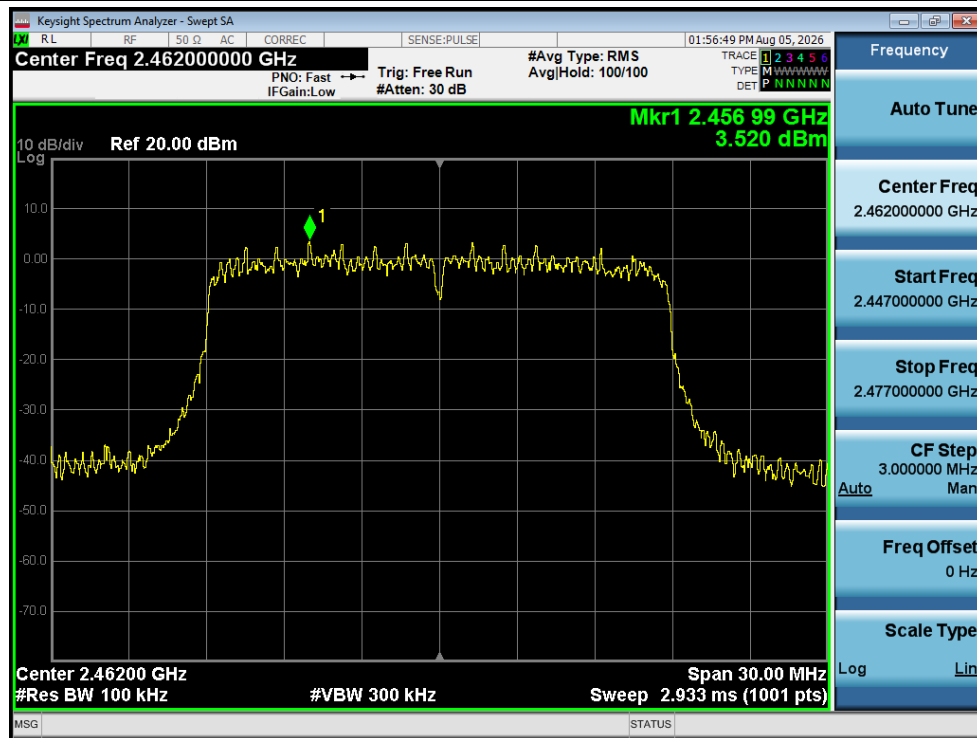
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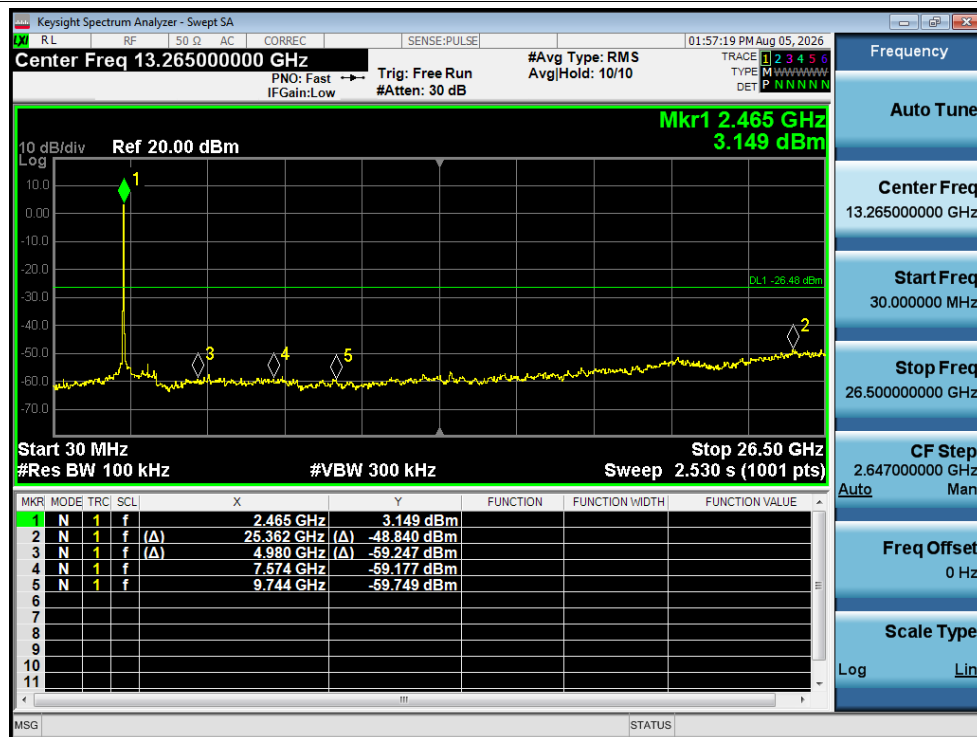
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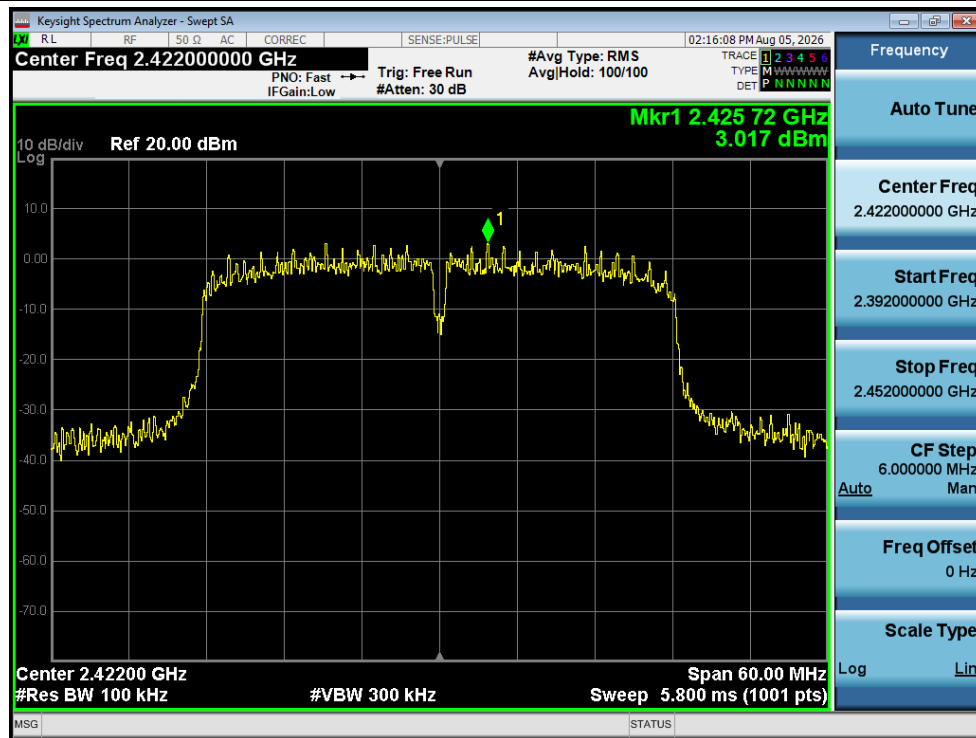
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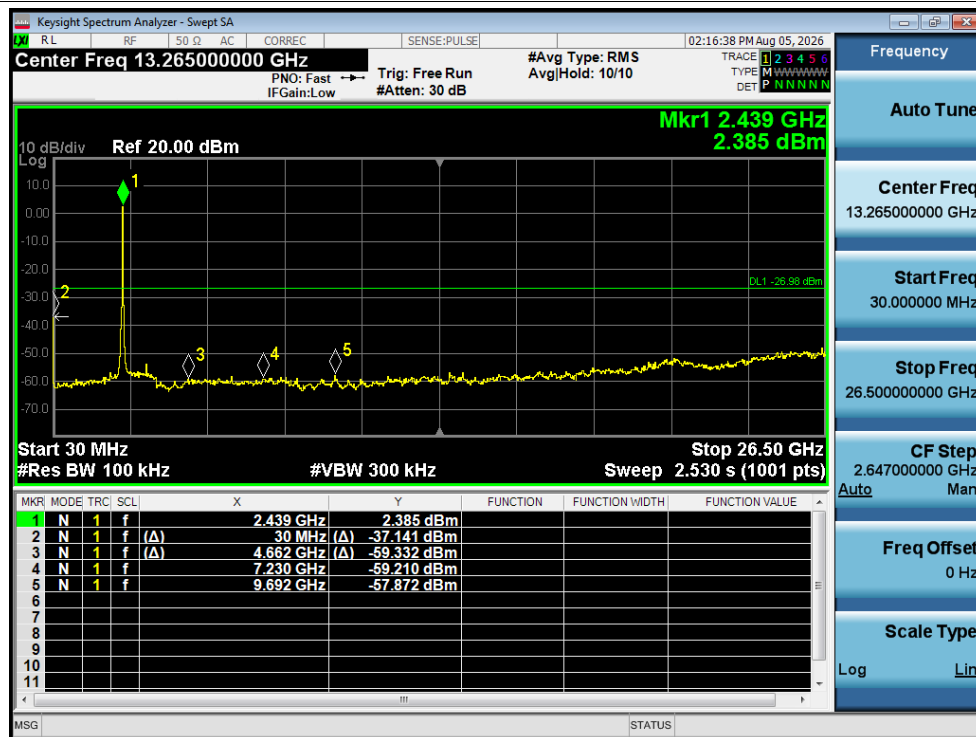
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Tx. Spurious NVNT n20 2462MHz Ant1 Emission



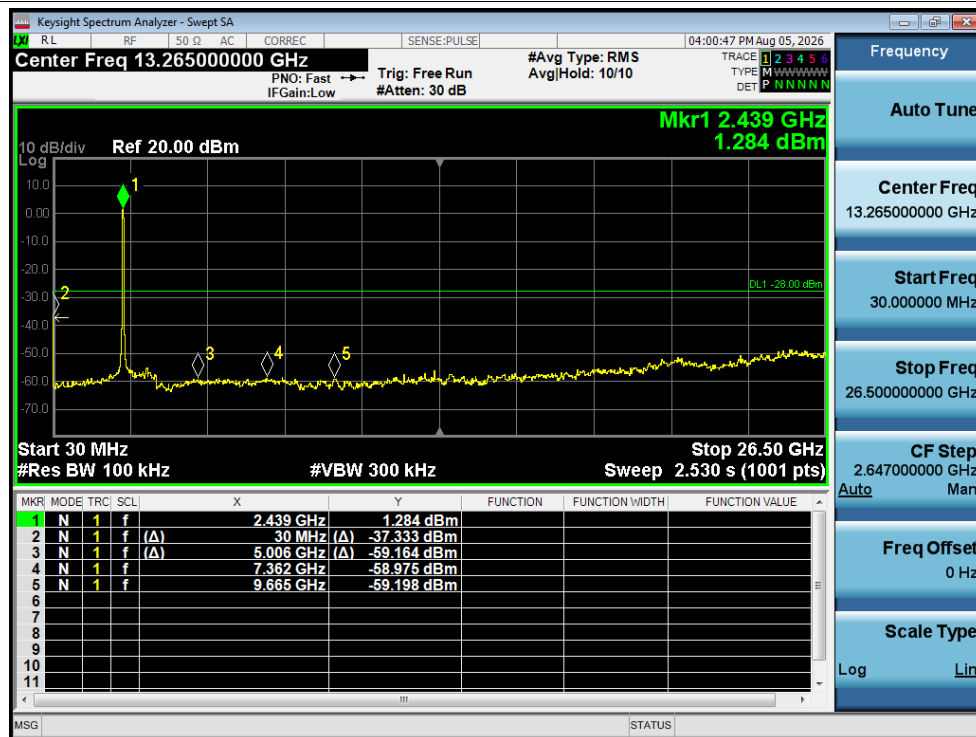
Tx. Spurious NVNT n40 2422MHz Ant1 Ref



Tx. Spurious NVNT n40 2422MHz Ant1 Emission



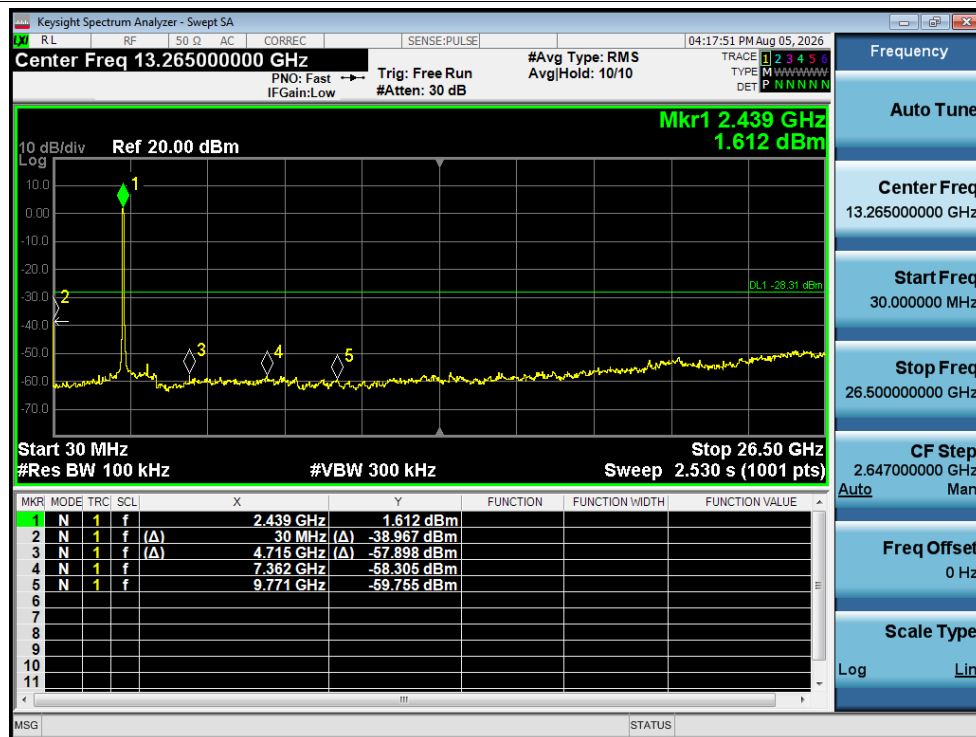
Tx. Spurious NVNT n40 2437MHz Ant1 Ref



Tx. Spurious NVNT n40 2437MHz Ant1 Emission



Tx. Spurious NVNT n40 2452MHz Ant1 Ref



Tx. Spurious NVNT n40 2452MHz Ant1 Emission