

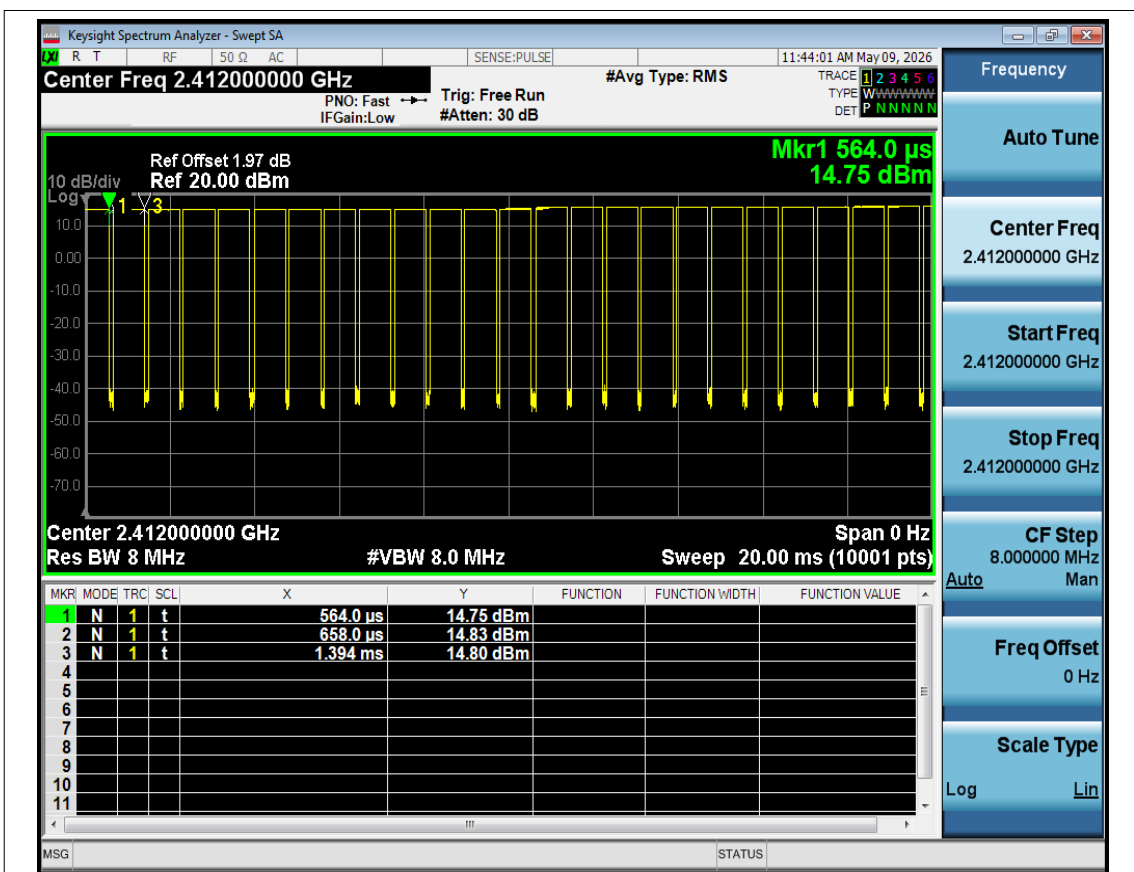
RF Test Data

FCC ID:2BWIF-ZGT-K01

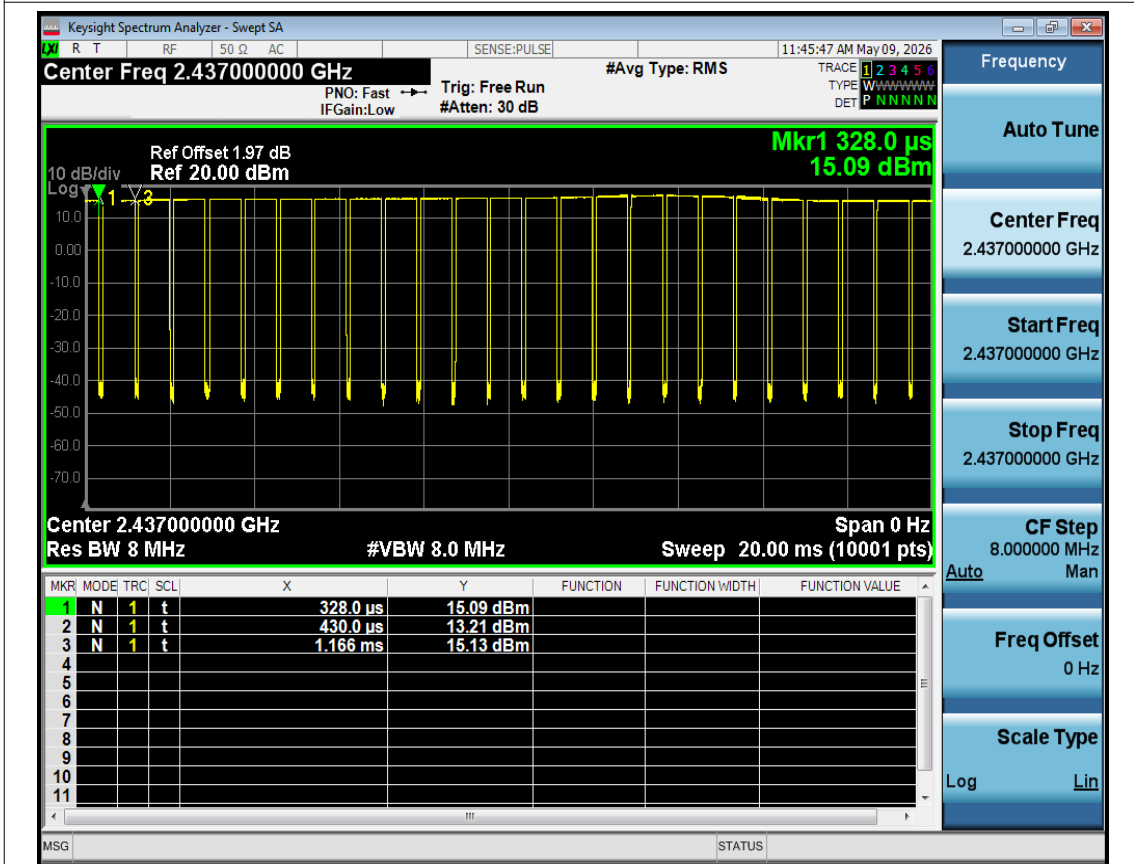
Duty Cycle	2
Maximum Average Conducted Output Power	9
-6dB Bandwidth	10
Occupied Channel Bandwidth	17
Maximum Power Spectral Density Level	24
Band Edge	31
Conducted RF Spurious Emission	40

Duty Cycle

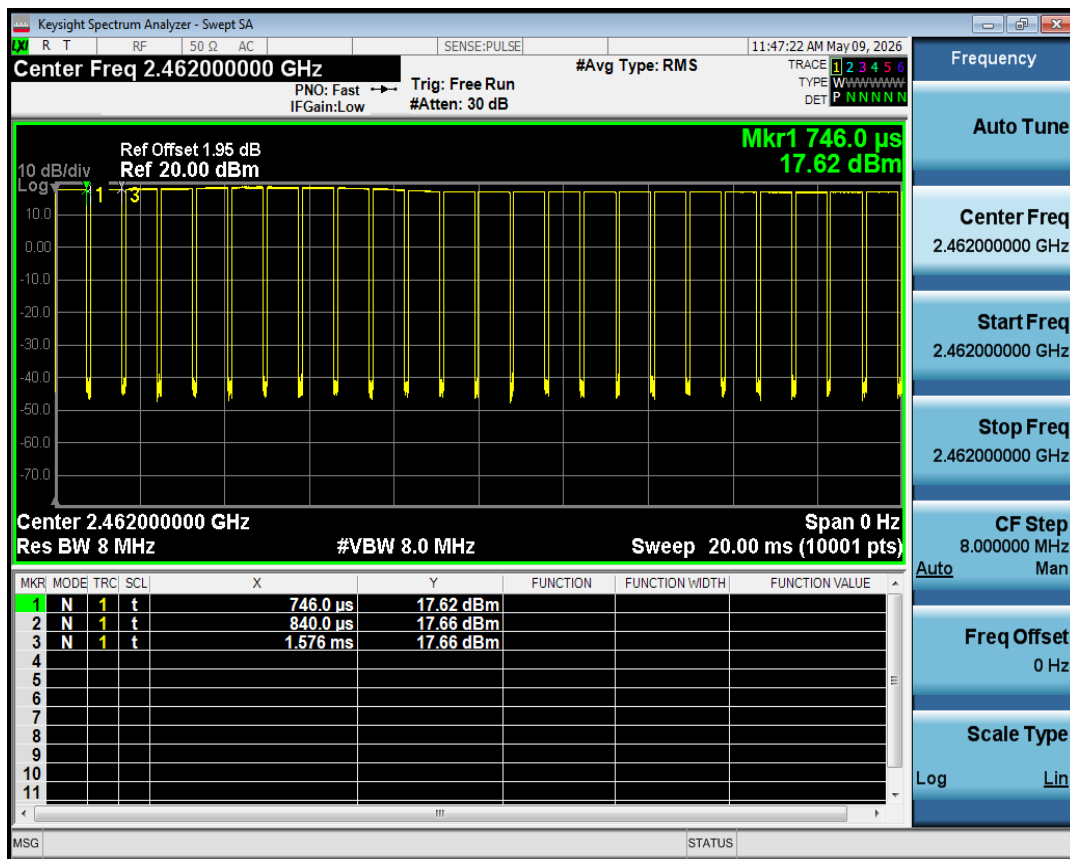
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	88.67	0.52	1.36
NVNT	b	2437	Ant1	87.83	0.56	1.36
NVNT	b	2462	Ant1	88.67	0.52	1.36
NVNT	g	2412	Ant1	56.31	2.49	8.62
NVNT	g	2437	Ant1	56.31	2.49	8.62
NVNT	g	2462	Ant1	56.31	2.49	8.62
NVNT	n20	2412	Ant1	56.31	2.49	8.62
NVNT	n20	2437	Ant1	56.86	2.45	8.62
NVNT	n20	2462	Ant1	56.31	2.49	8.62
NVNT	n40	2422	Ant1	46.34	3.34	13.16
NVNT	n40	2437	Ant1	45.78	3.39	13.16
NVNT	n40	2452	Ant1	46.34	3.34	13.16



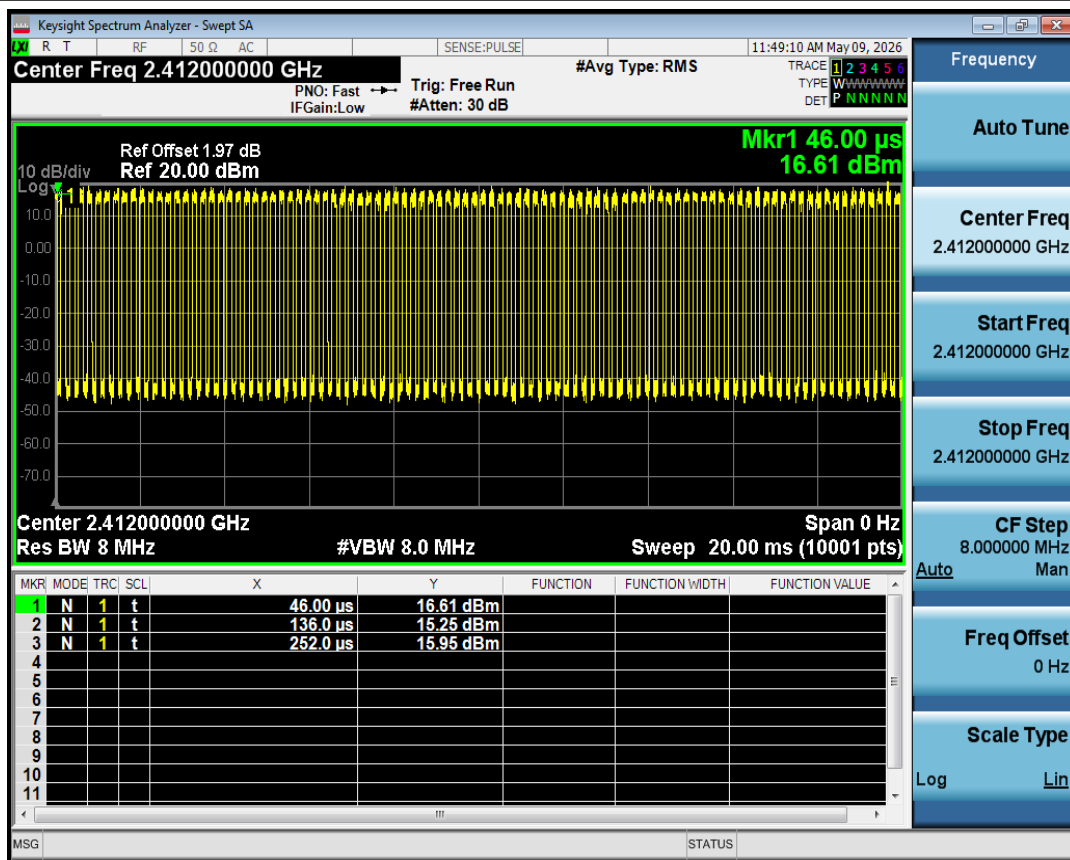
Duty Cycle NVNT b 2412MHz Ant1



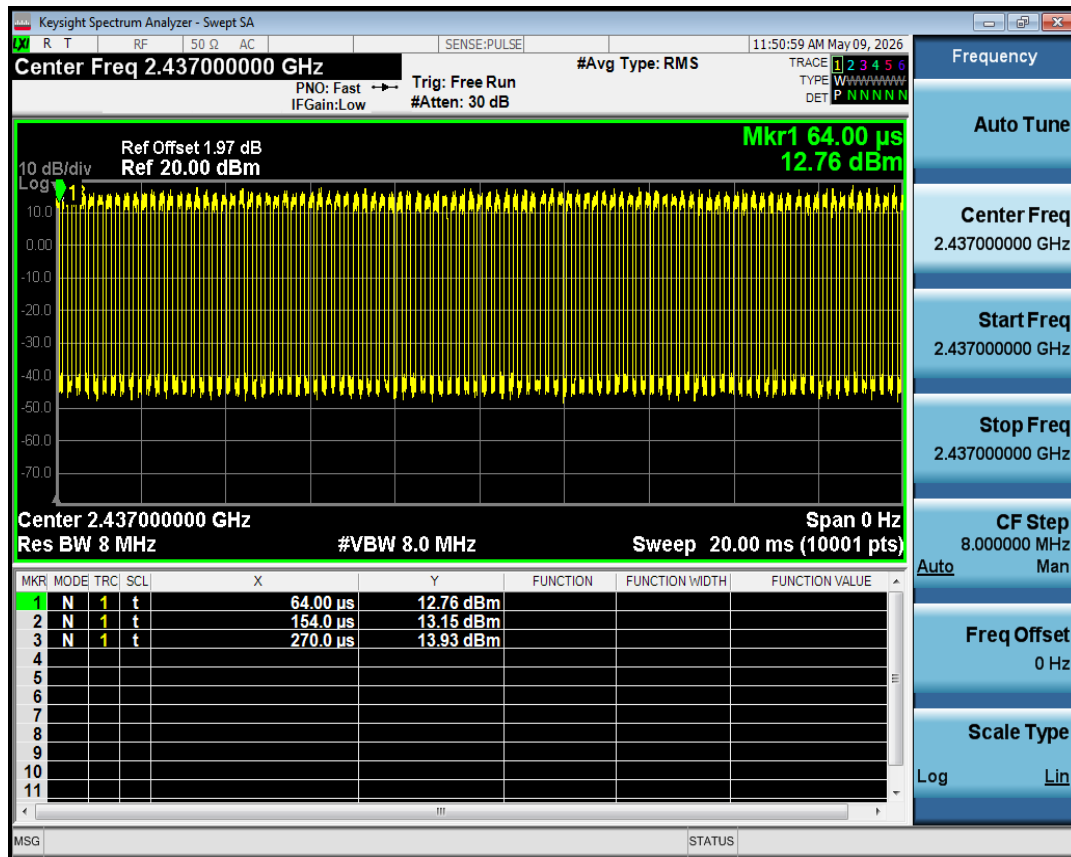
Duty Cycle NVNT b 2437MHz Ant1



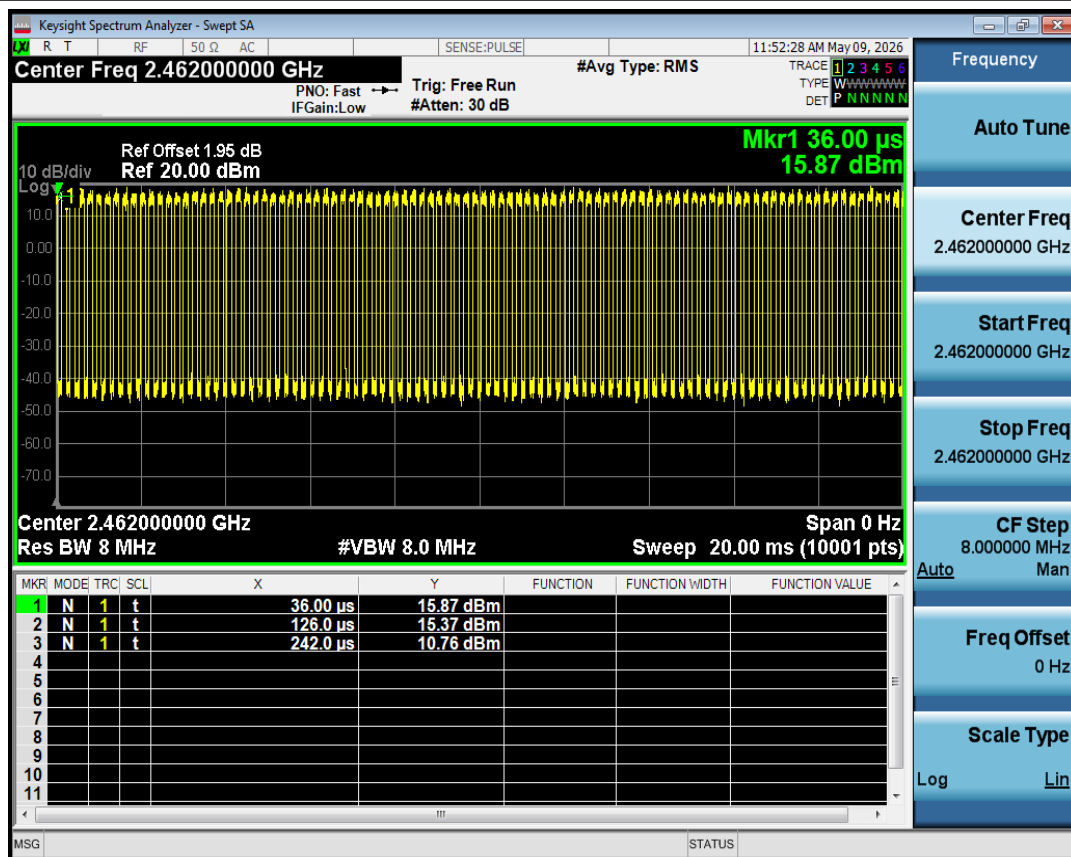
Duty Cycle NVNT b 2462MHz Ant1



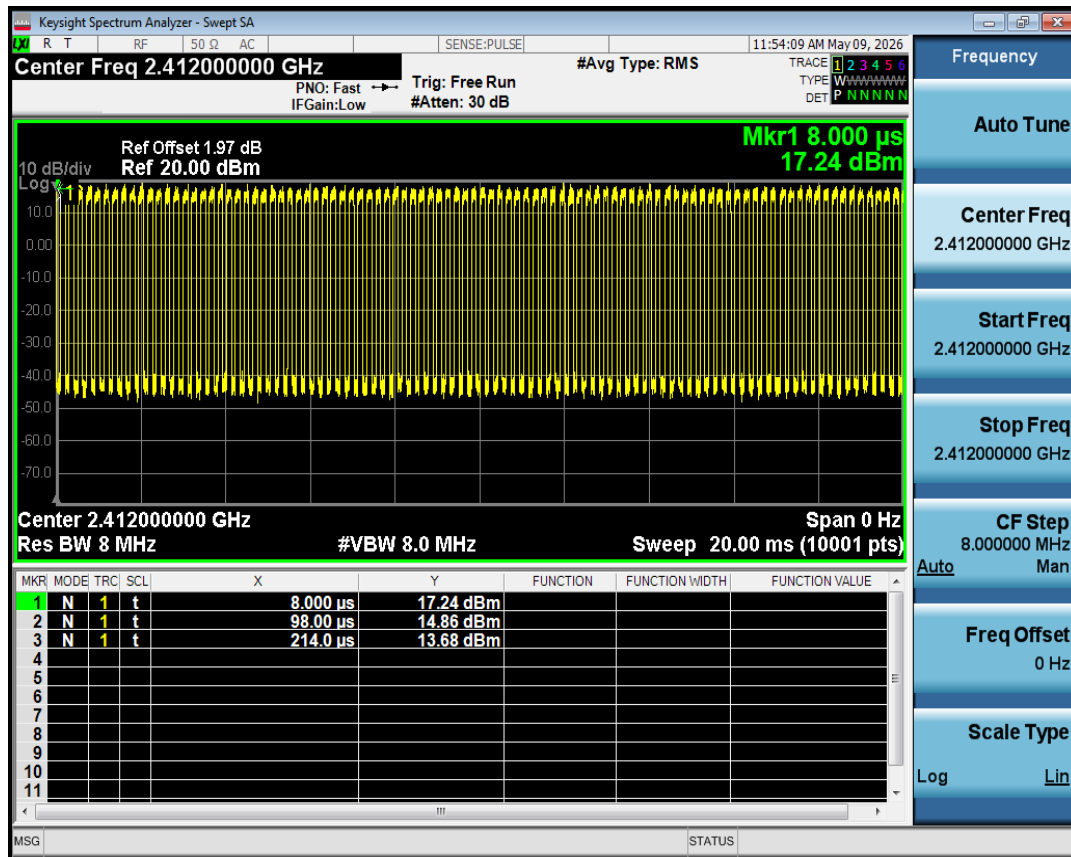
Duty Cycle NVNT g 2412MHz Ant1



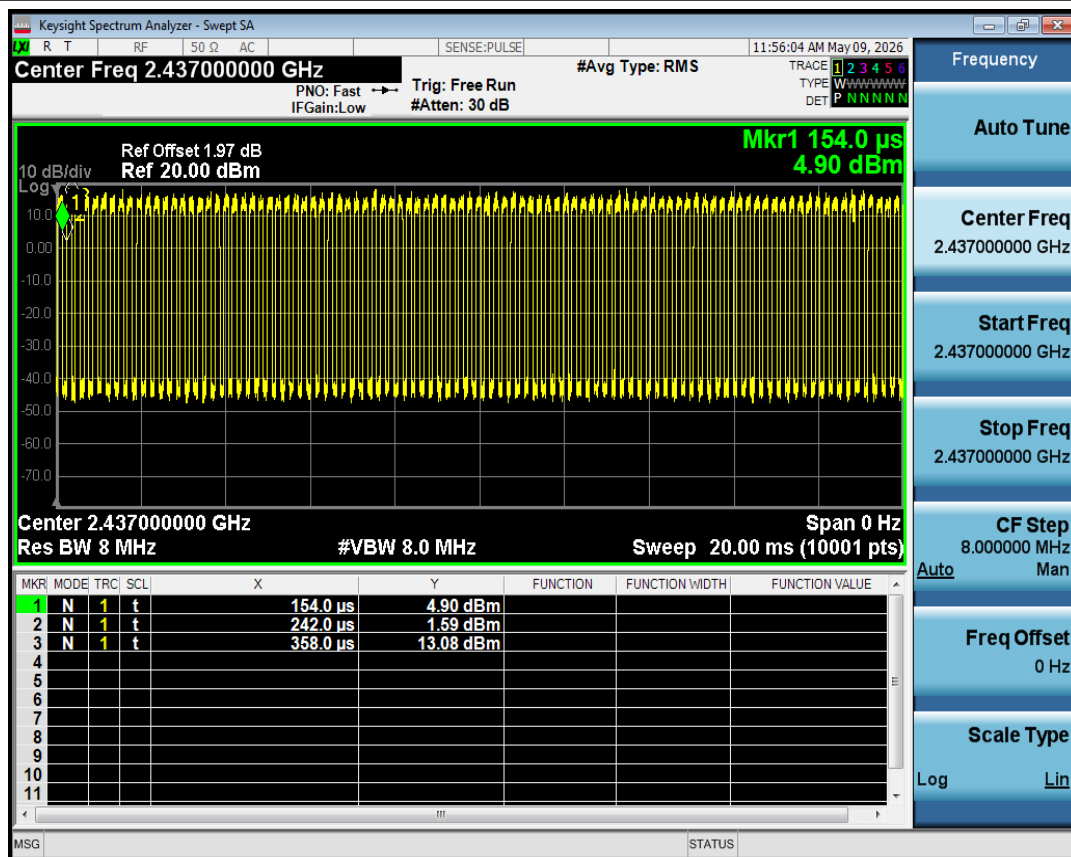
Duty Cycle NVNT g 2437MHz Ant1



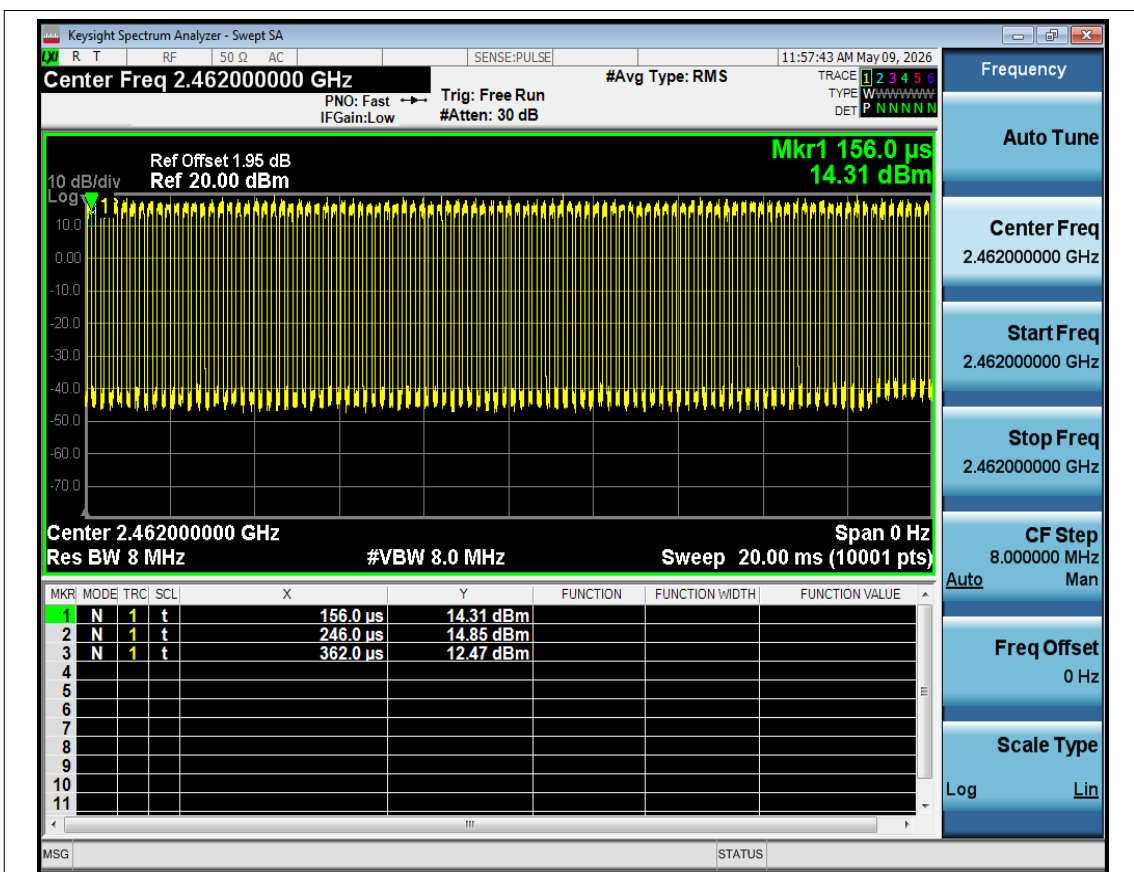
Duty Cycle NVNT g 2462MHz Ant1



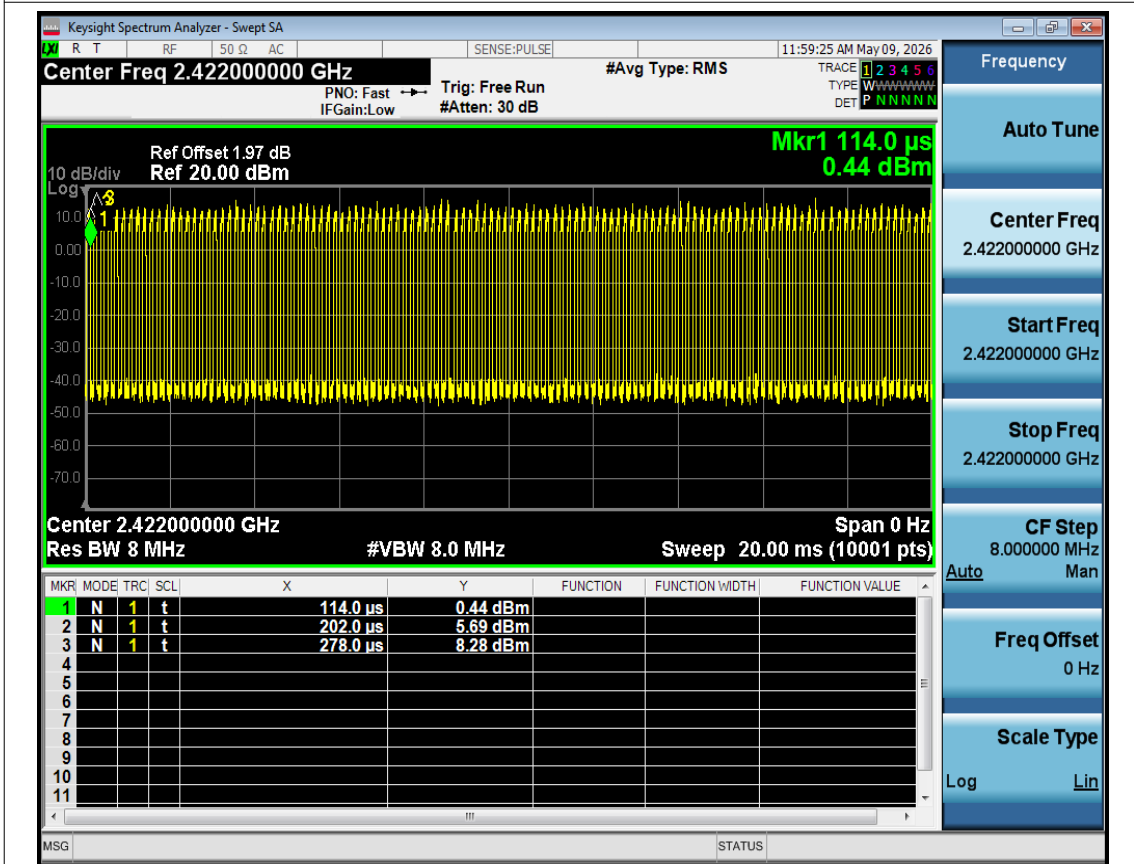
Duty Cycle NVNT n20 2412MHz Ant1



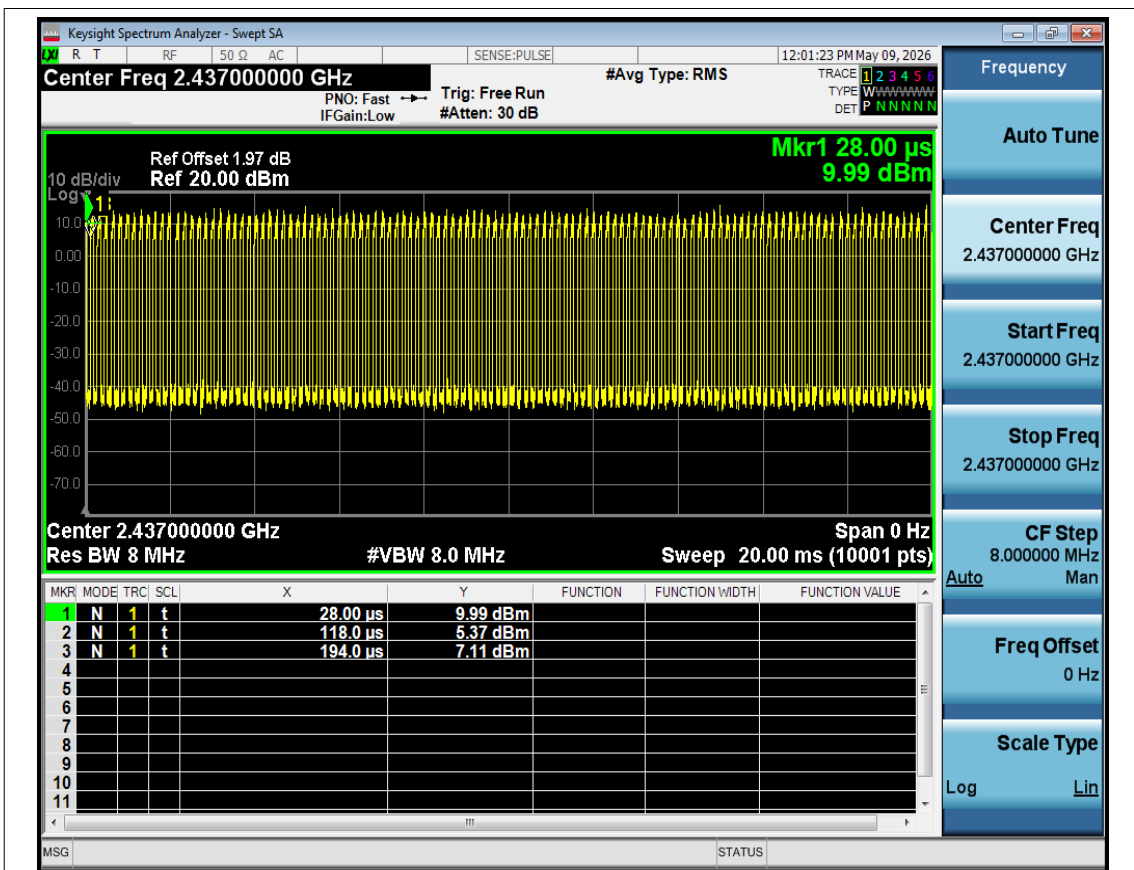
Duty Cycle NVNT n20 2437MHz Ant1



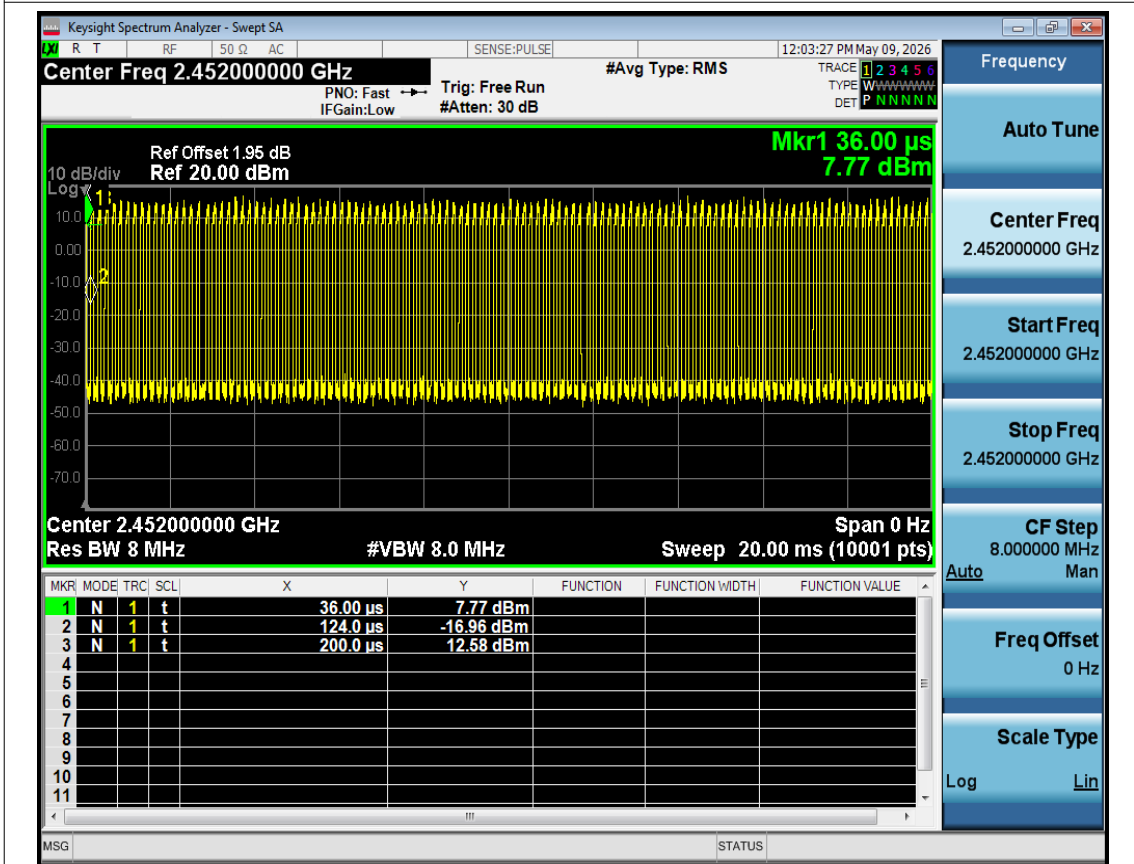
Duty Cycle NVNT n20 2462MHz Ant1



Duty Cycle NVNT n40 2422MHz Ant1



Duty Cycle NVNT n40 2437MHz Ant1



Duty Cycle NVNT n40 2452MHz Ant1

Maximum Average Conducted Output Power

Condi tion	Mod e	Frequen cy (MHz)	Anten na	Conduct ed Power (dBm)	Duty Fact or (dB)	Total Conduct ed Power (dBm)	Total Conduct ed Power (W)	Limit Conducted(dB m)	Verdi ct
NVNT	b	2412	Ant1	6.08	0.52	6.6	0.0046	30	Pass
NVNT	b	2437	Ant1	6.28	0.56	6.84	0.0048	30	Pass
NVNT	b	2462	Ant1	8.24	0.52	8.76	0.0075	30	Pass
NVNT	g	2412	Ant1	5.73	2.49	8.22	0.0066	30	Pass
NVNT	g	2437	Ant1	3.82	2.49	6.31	0.0043	30	Pass
NVNT	g	2462	Ant1	5.79	2.49	8.28	0.0067	30	Pass
NVNT	n20	2412	Ant1	5.85	2.49	8.34	0.0068	30	Pass
NVNT	n20	2437	Ant1	3.99	2.45	6.44	0.0044	30	Pass
NVNT	n20	2462	Ant1	5.98	2.49	8.47	0.0070	30	Pass
NVNT	n40	2422	Ant1	3.34	3.34	6.68	0.0047	30	Pass
NVNT	n40	2437	Ant1	3.31	3.39	6.7	0.0047	30	Pass
NVNT	n40	2452	Ant1	4.27	3.34	7.61	0.0058	30	Pass

-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.102	0.5	Pass
NVNT	b	2437	Ant1	9.088	0.5	Pass
NVNT	b	2462	Ant1	9.077	0.5	Pass
NVNT	g	2412	Ant1	16.13	0.5	Pass
NVNT	g	2437	Ant1	16.15	0.5	Pass
NVNT	g	2462	Ant1	16.09	0.5	Pass
NVNT	n20	2412	Ant1	17.07	0.5	Pass
NVNT	n20	2437	Ant1	17.12	0.5	Pass
NVNT	n20	2462	Ant1	17	0.5	Pass
NVNT	n40	2422	Ant1	36.1	0.5	Pass
NVNT	n40	2437	Ant1	35.24	0.5	Pass
NVNT	n40	2452	Ant1	35.42	0.5	Pass



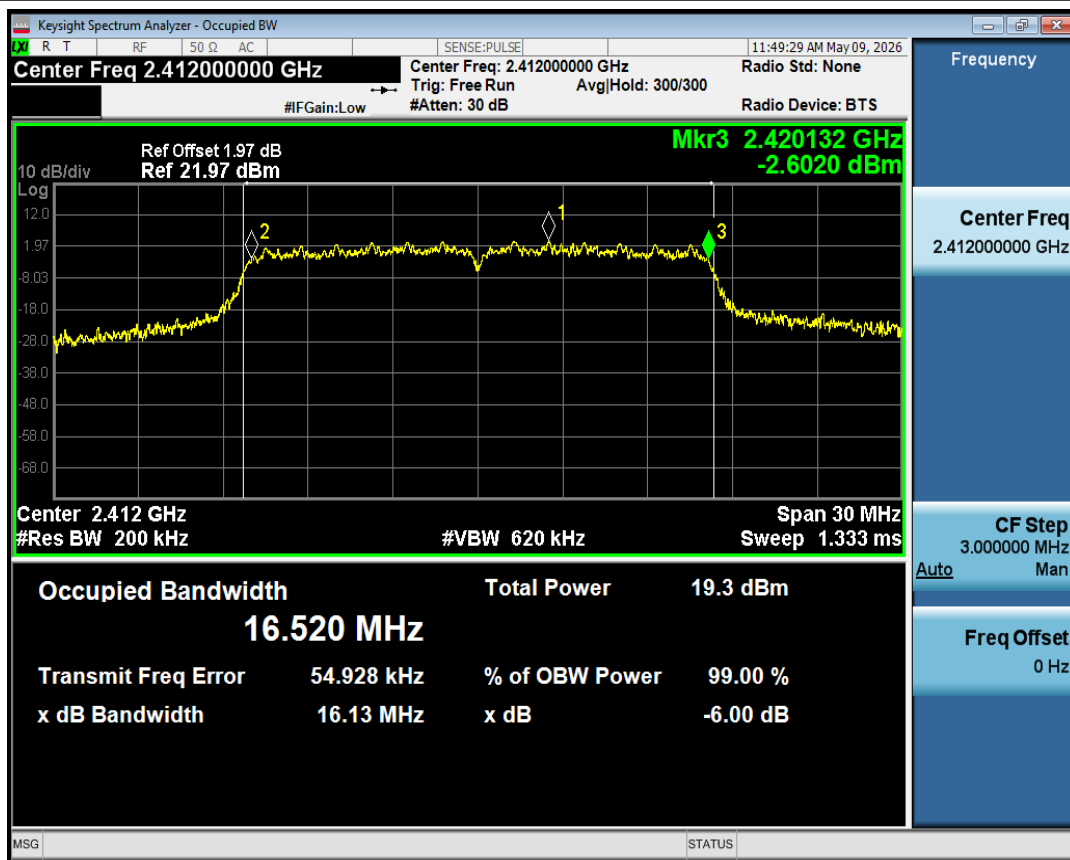
-6dB Bandwidth NVNT b 2412MHz Ant1



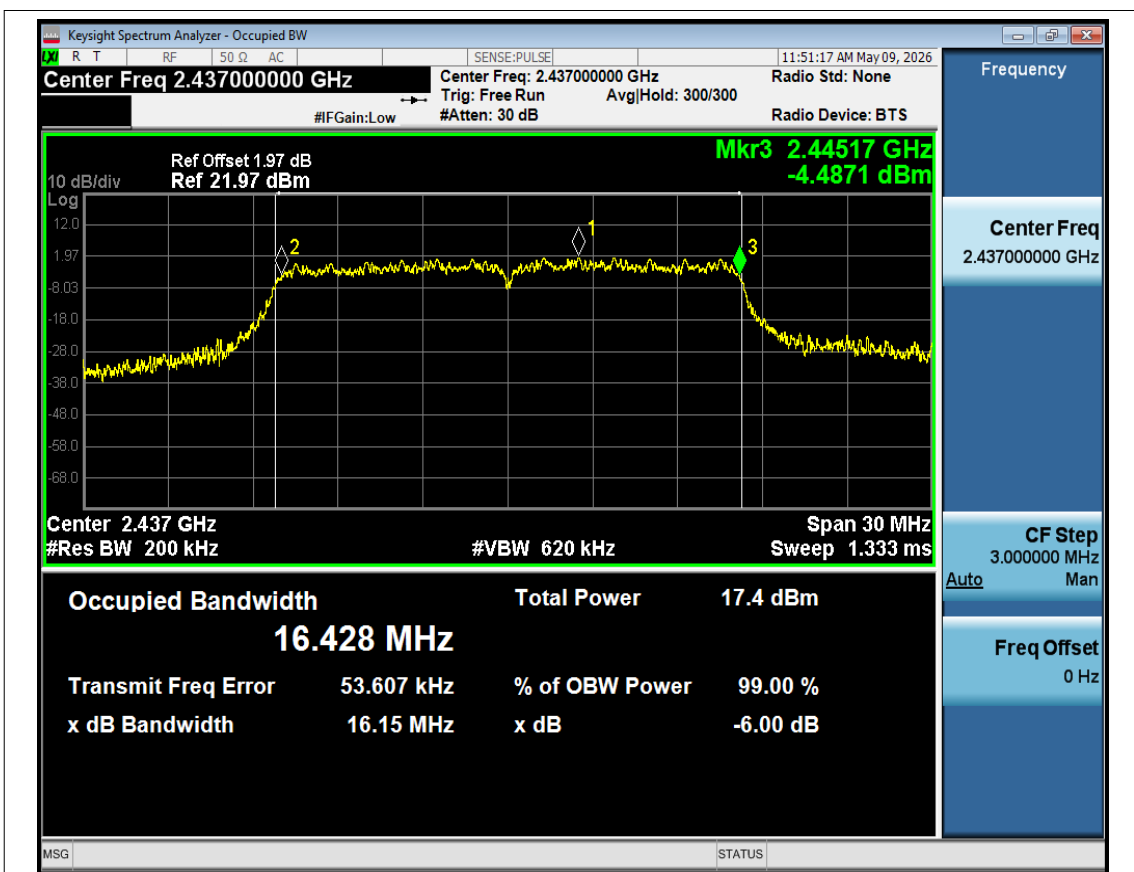
-6dB Bandwidth NVNT b 2437MHz Ant1



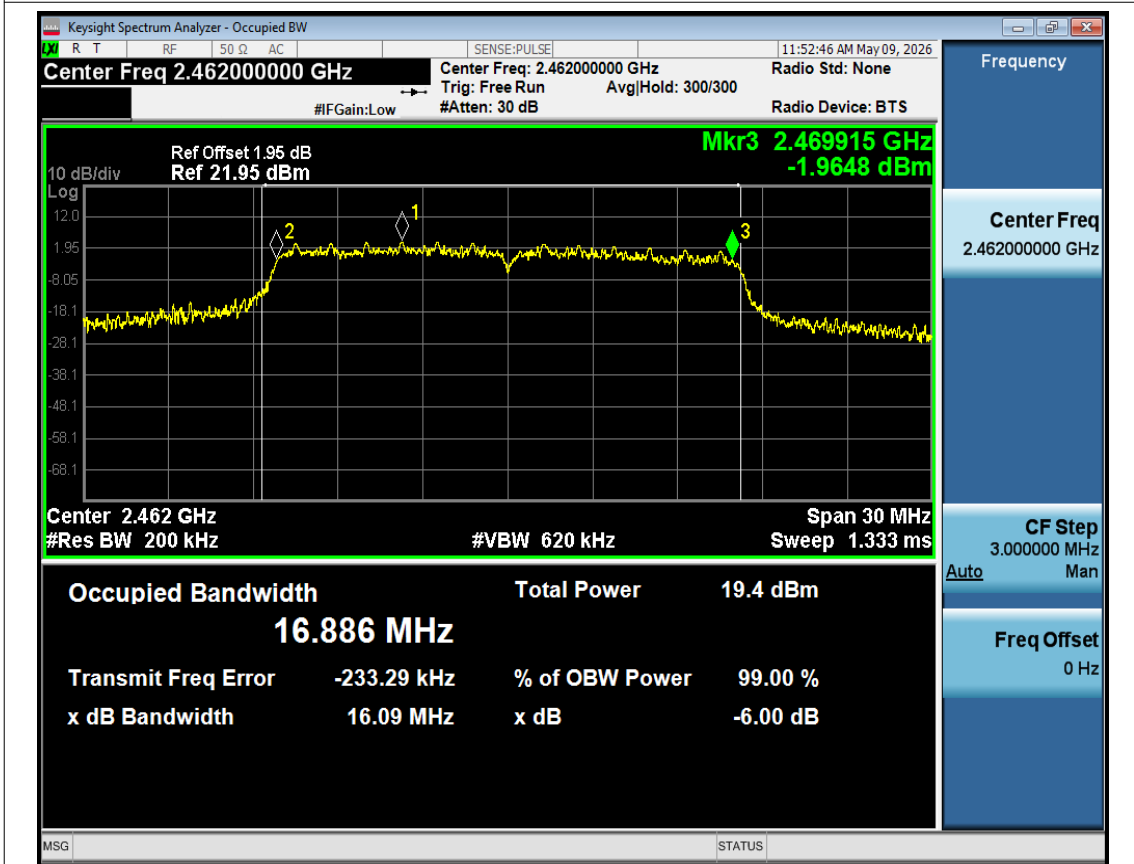
-6dB Bandwidth NVNT b 2462MHz Ant1



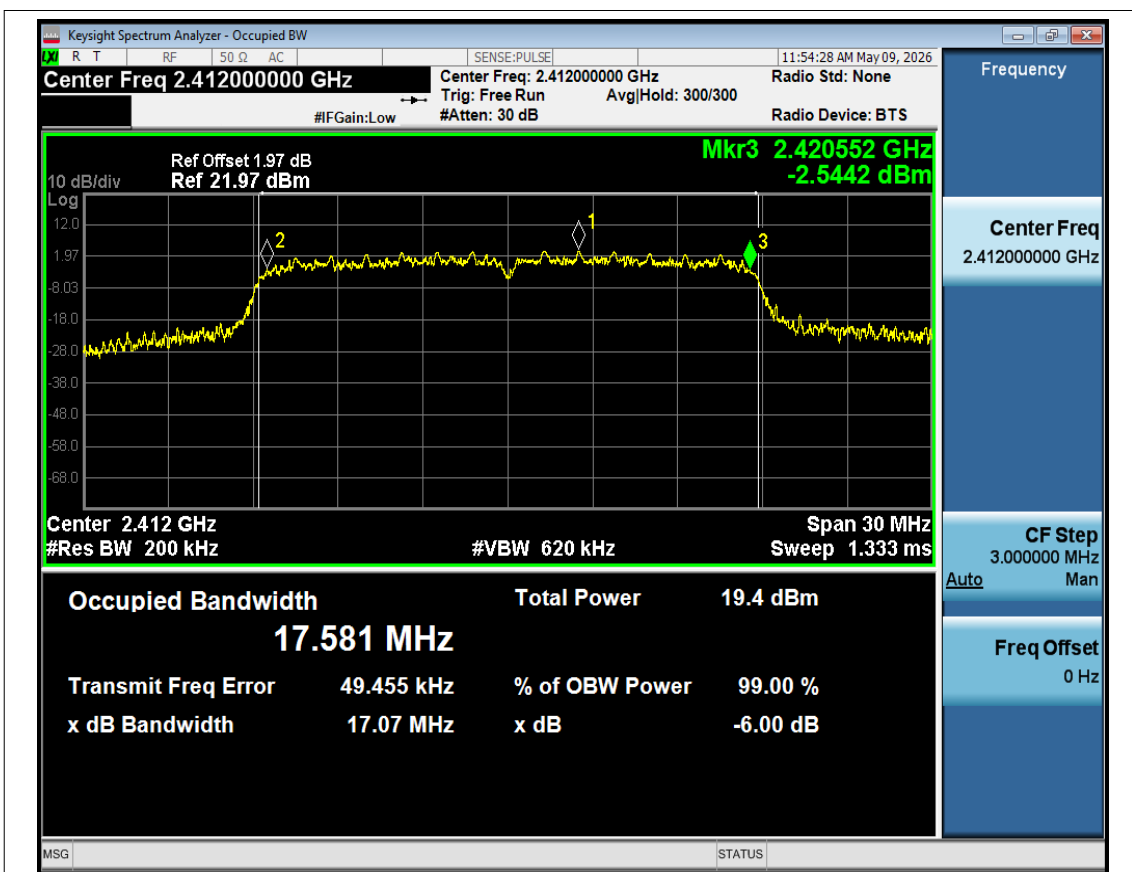
-6dB Bandwidth NVNT g 2412MHz Ant1



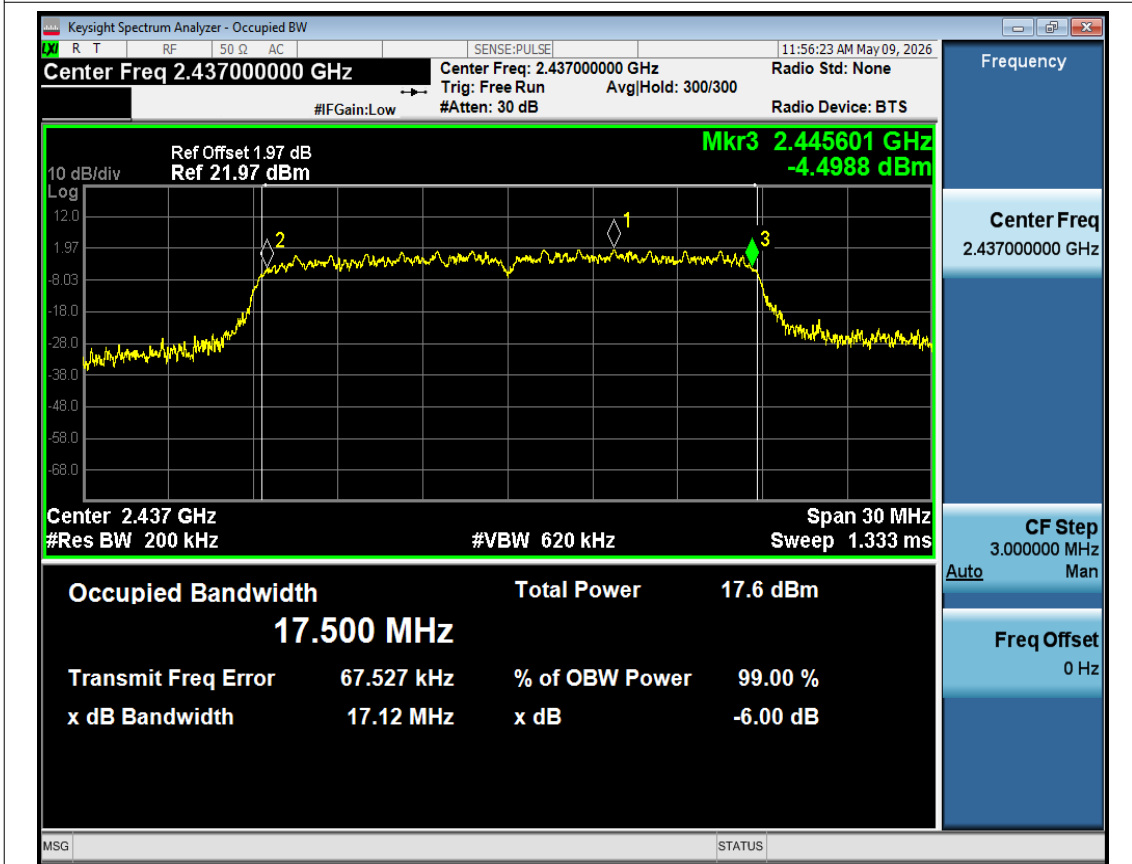
-6dB Bandwidth NVNT g 2437MHz Ant1



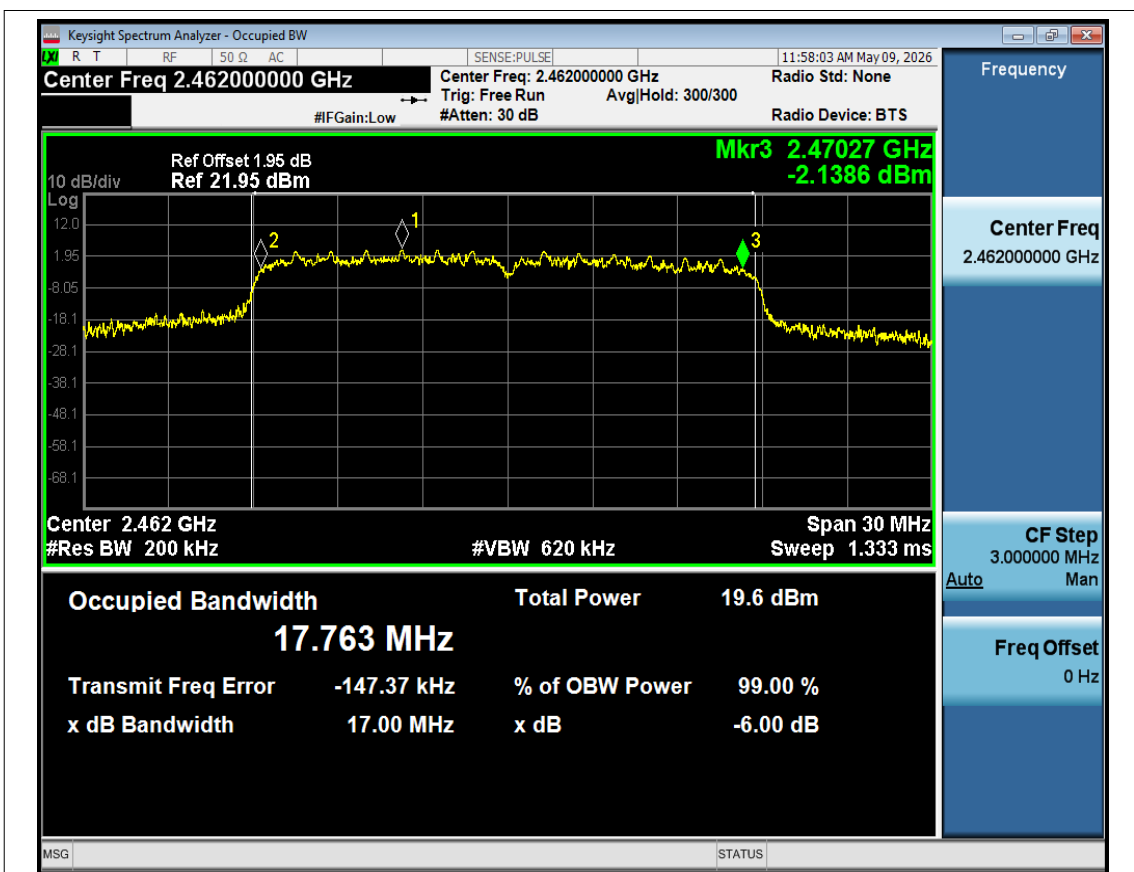
-6dB Bandwidth NVNT g 2462MHz Ant1



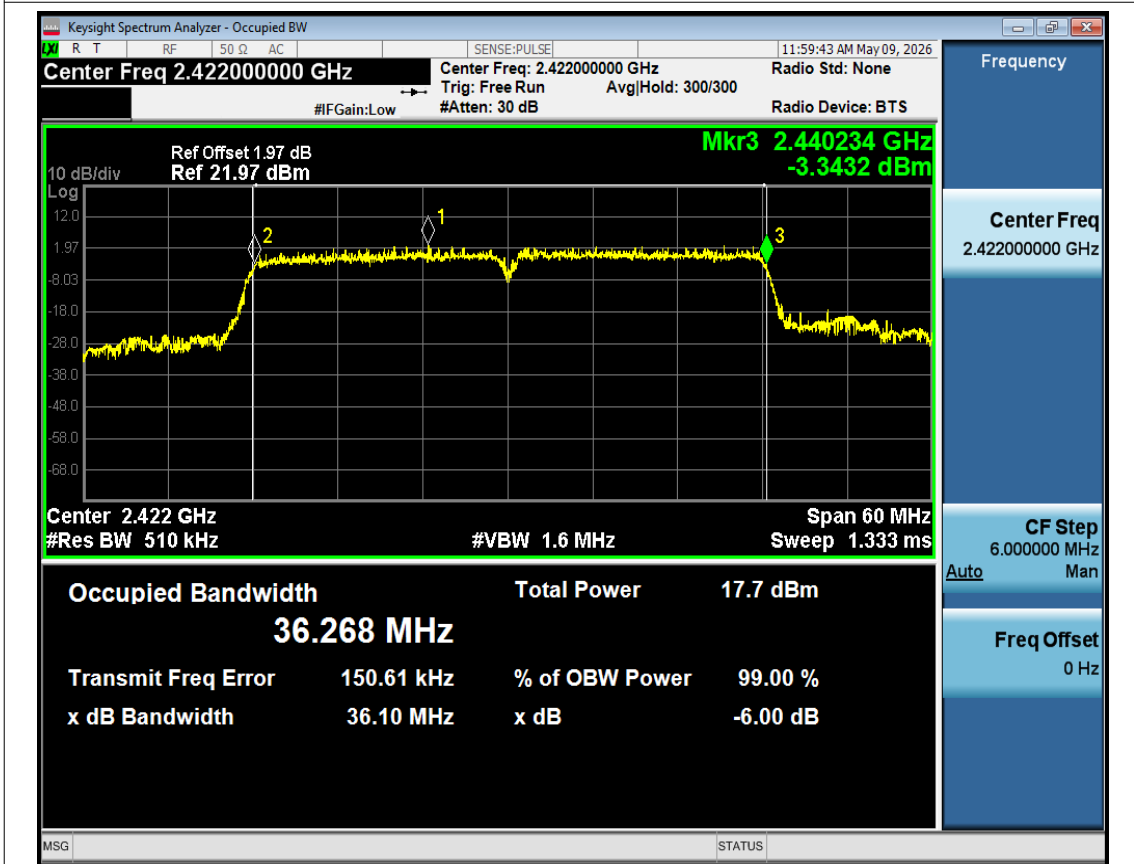
-6dB Bandwidth NVNT n20 2412MHz Ant1



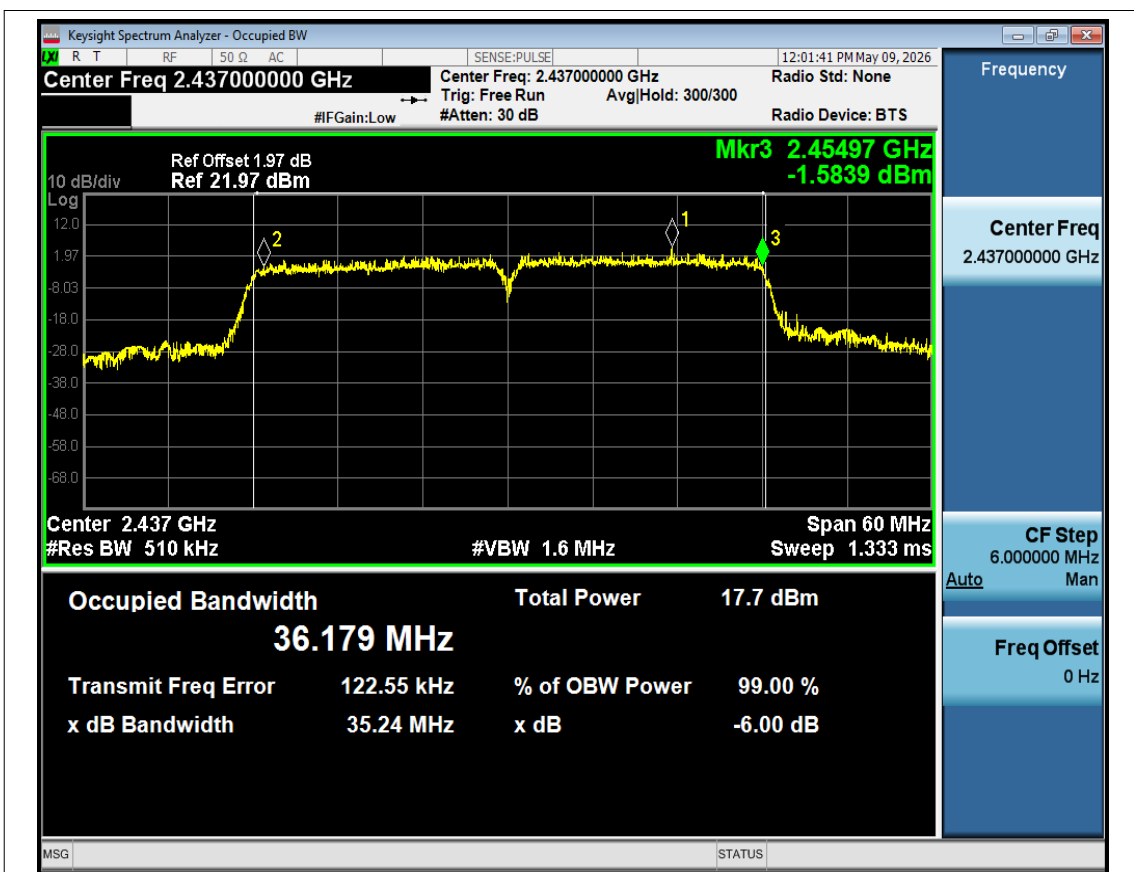
-6dB Bandwidth NVNT n20 2437MHz Ant1



-6dB Bandwidth NVNT n20 2462MHz Ant1



-6dB Bandwidth NVNT n40 2422MHz Ant1



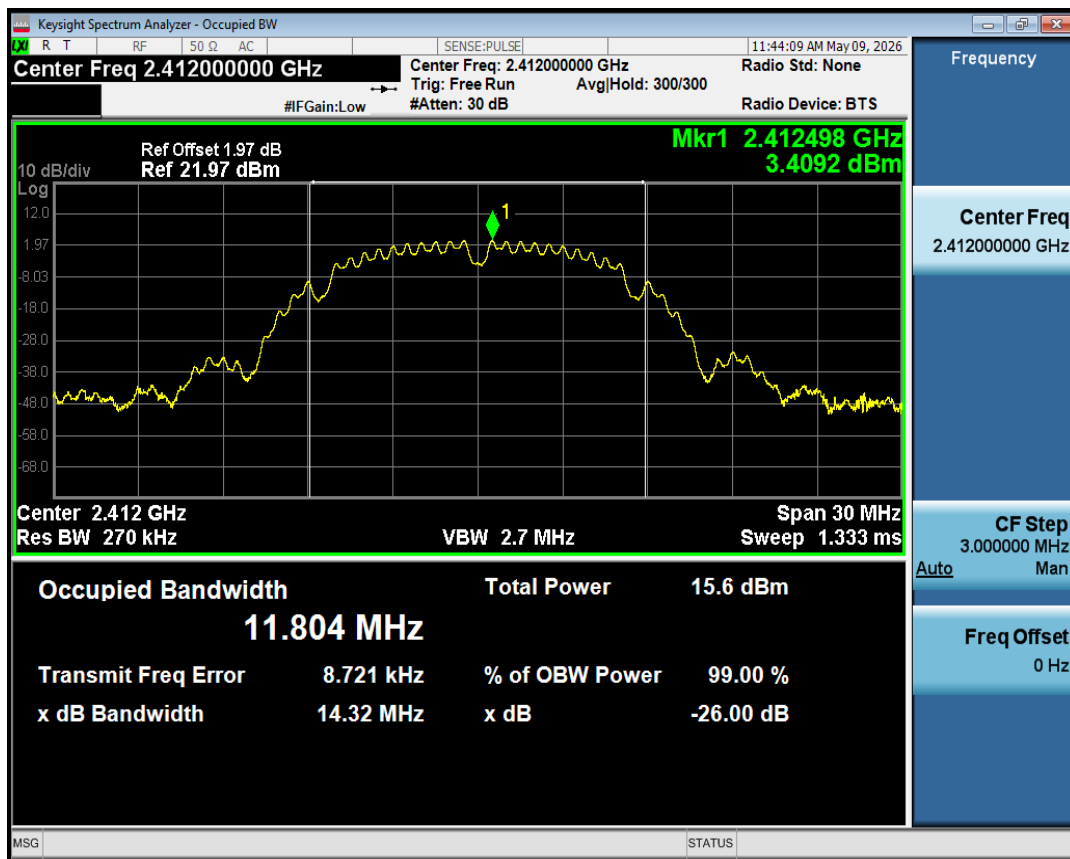
-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1

Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	11.804
NVNT	b	2437	Ant1	11.819
NVNT	b	2462	Ant1	12.431
NVNT	g	2412	Ant1	16.682
NVNT	g	2437	Ant1	16.562
NVNT	g	2462	Ant1	16.963
NVNT	n20	2412	Ant1	17.659
NVNT	n20	2437	Ant1	17.567
NVNT	n20	2462	Ant1	17.911
NVNT	n40	2422	Ant1	36.3
NVNT	n40	2437	Ant1	36.215
NVNT	n40	2452	Ant1	36.176



OBW NVNT b 2412MHz Ant1



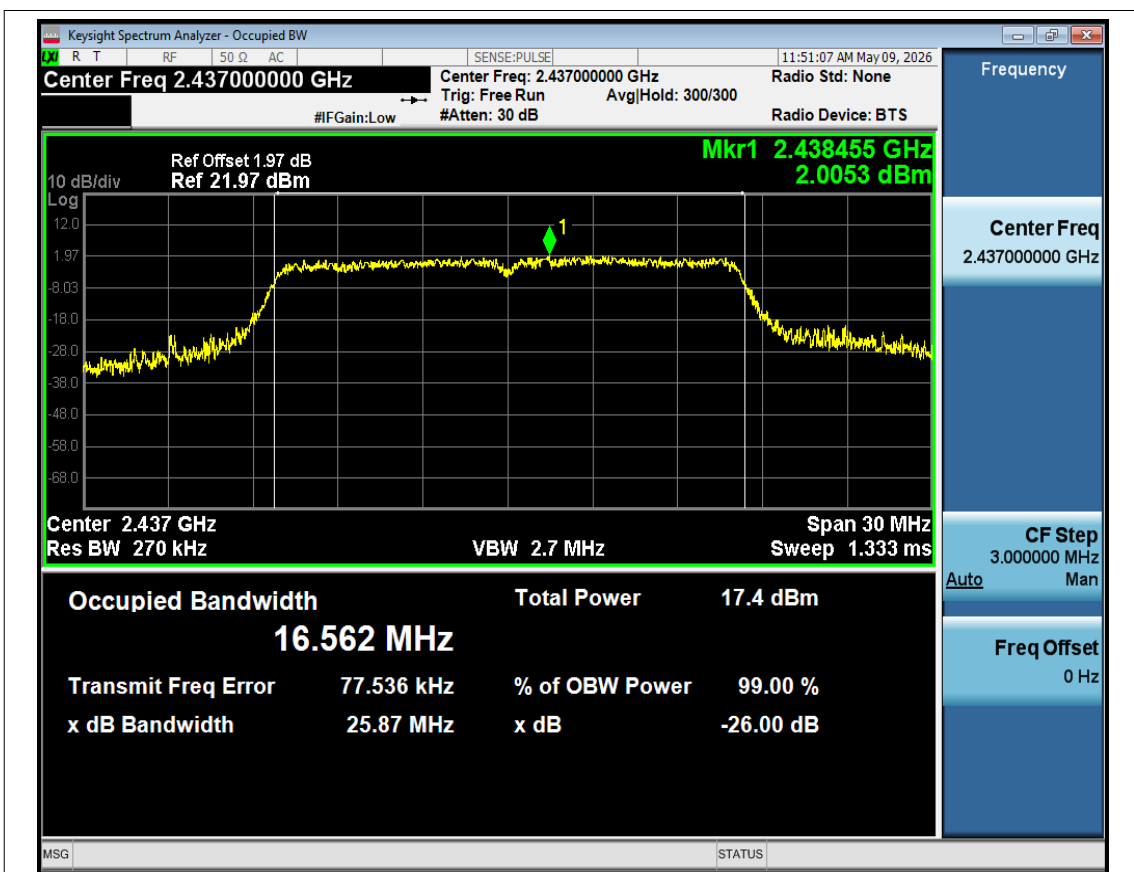
OBW NVNT b 2437MHz Ant1



OBW NVNT b 2462MHz Ant1



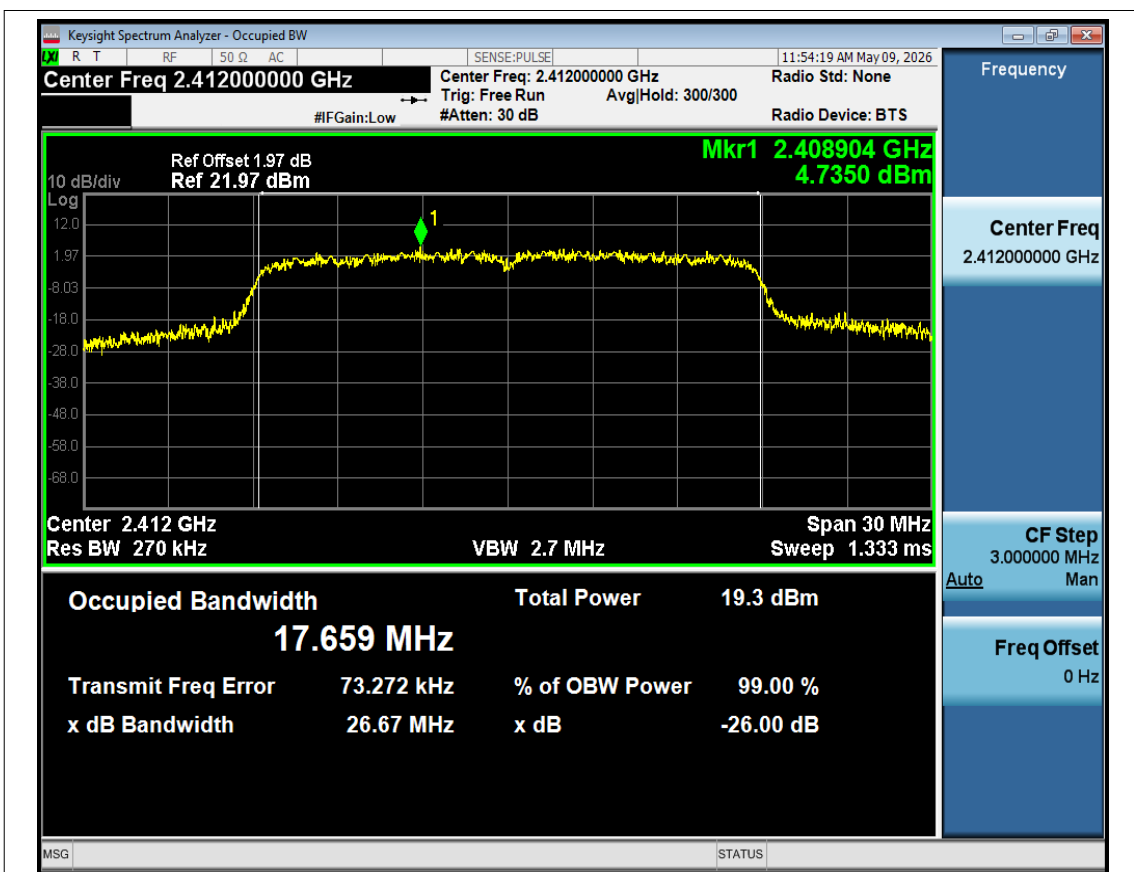
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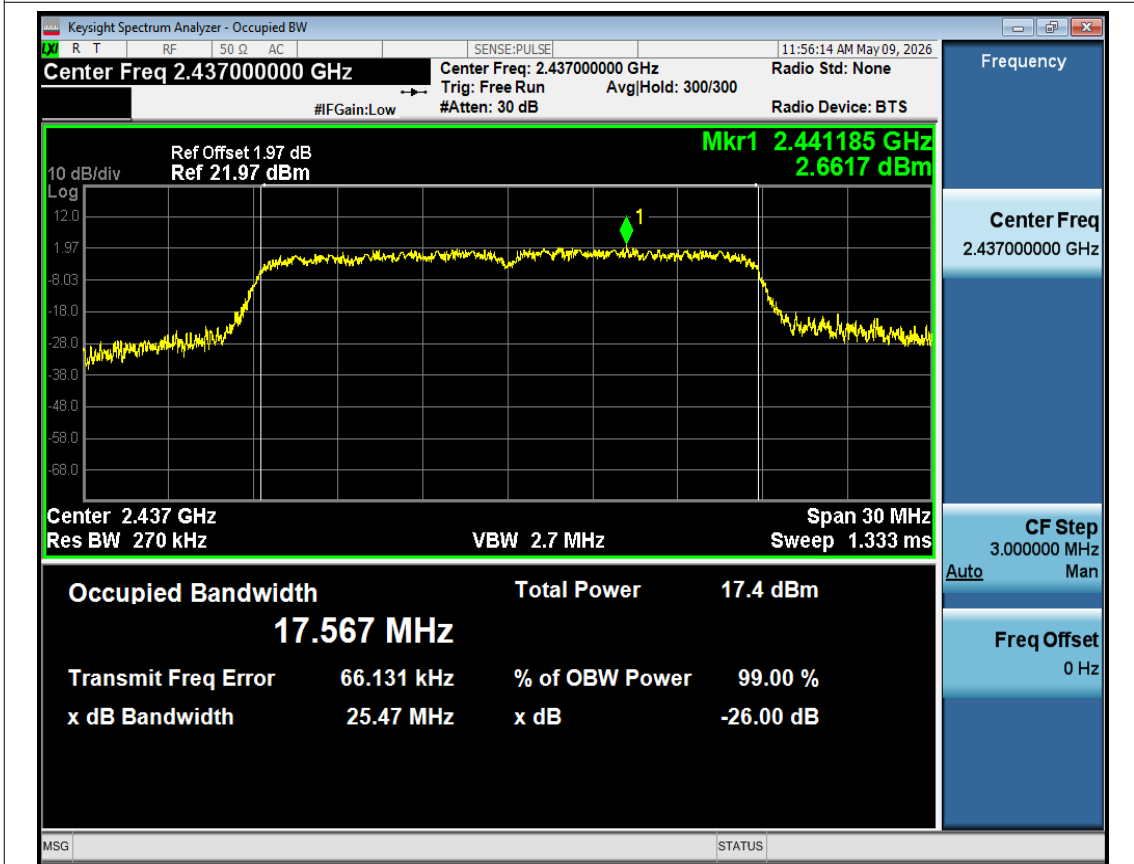
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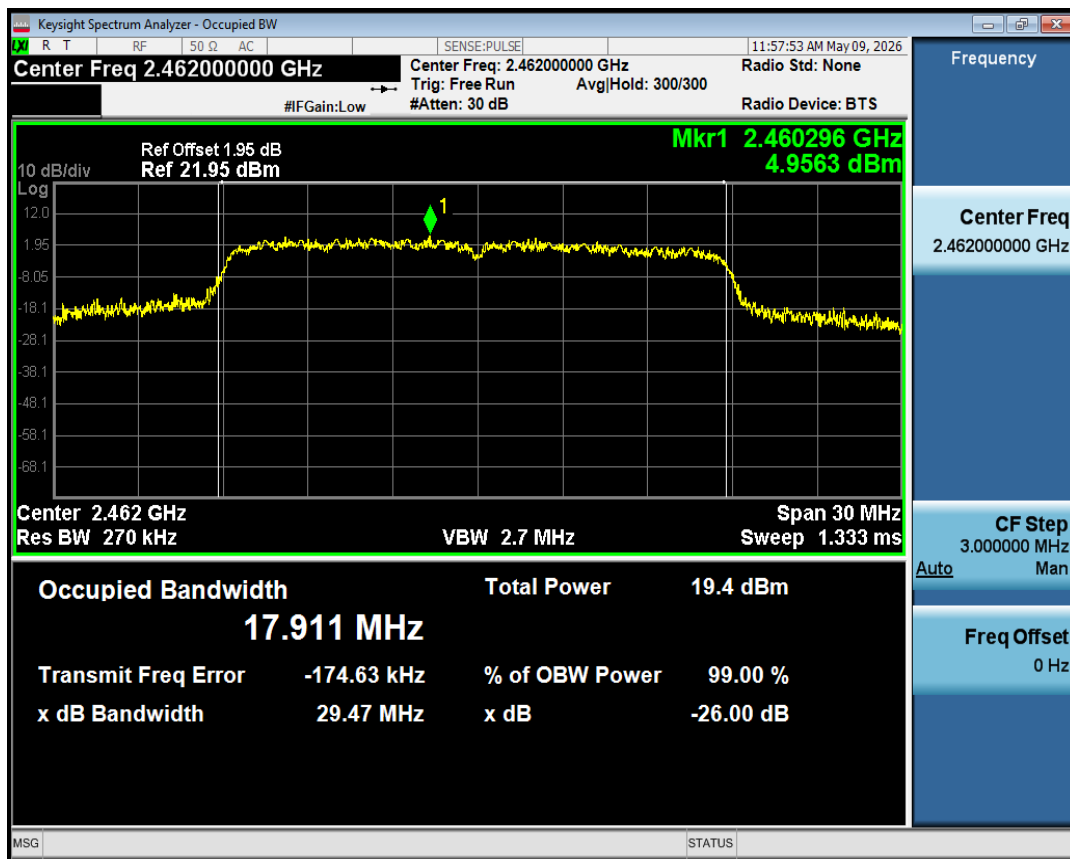
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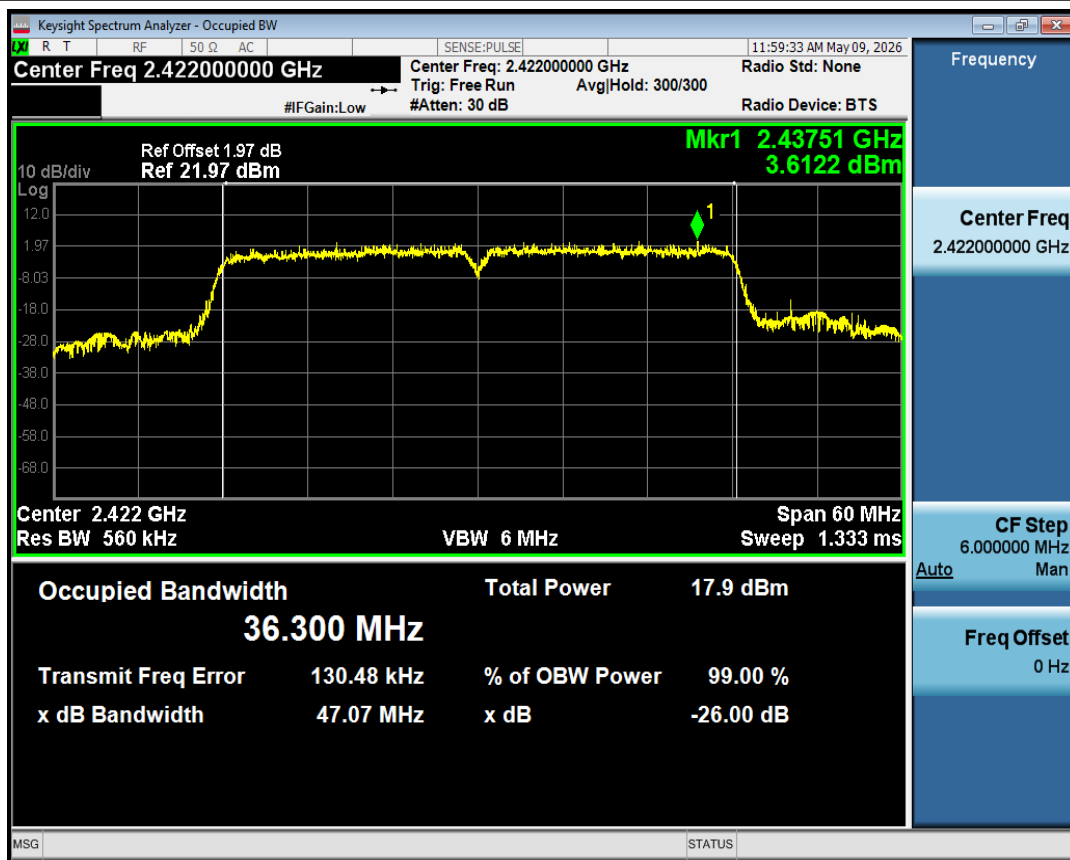
OBW NVNT n20 2412MHz Ant1



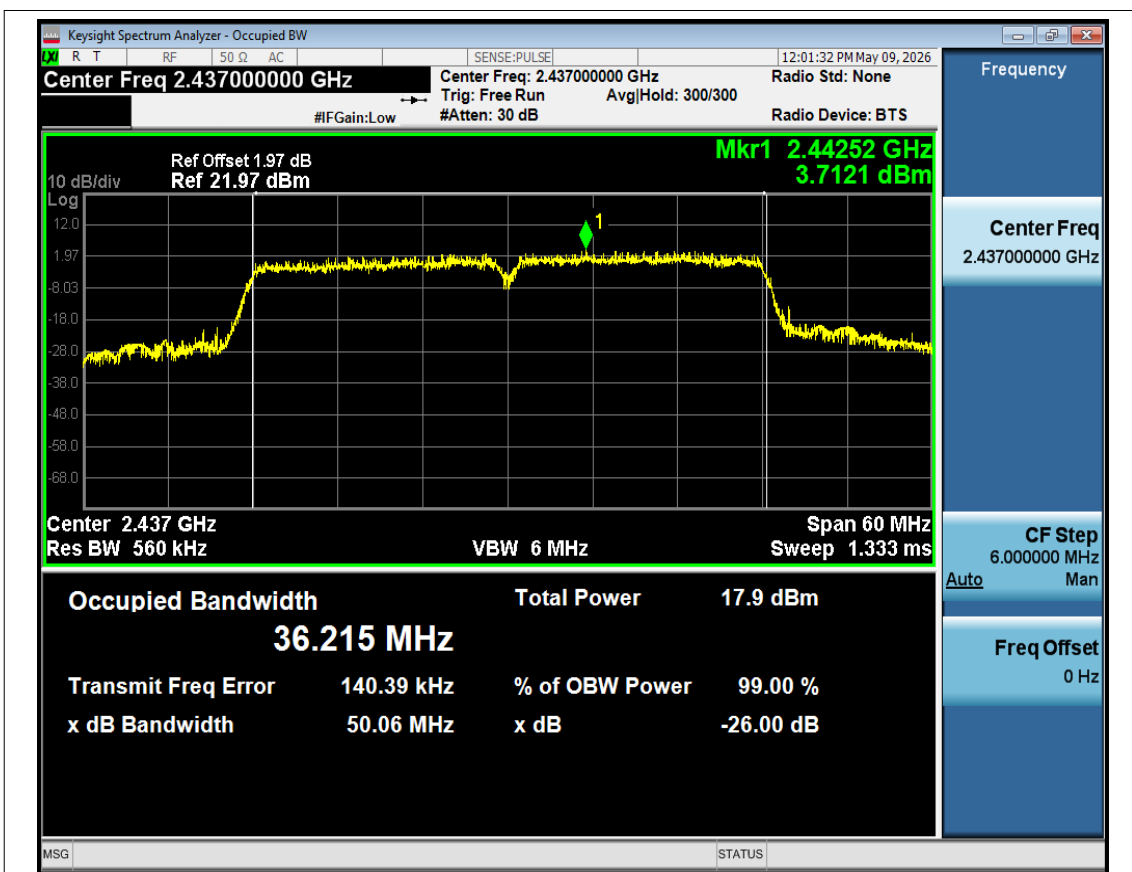
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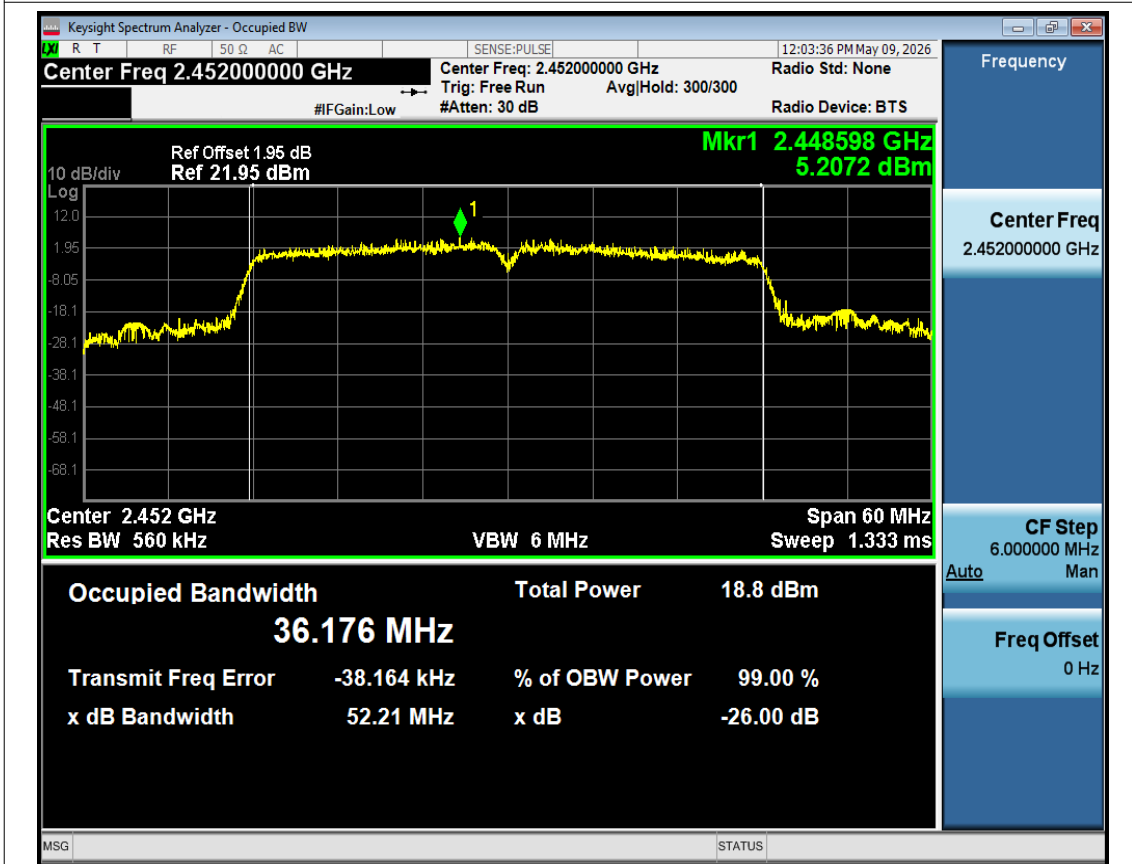
OBW NVNT n20 2462MHz Ant1



OBW NVNT n40 2422MHz Ant1



OBW NVNT n40 2437MHz Ant1

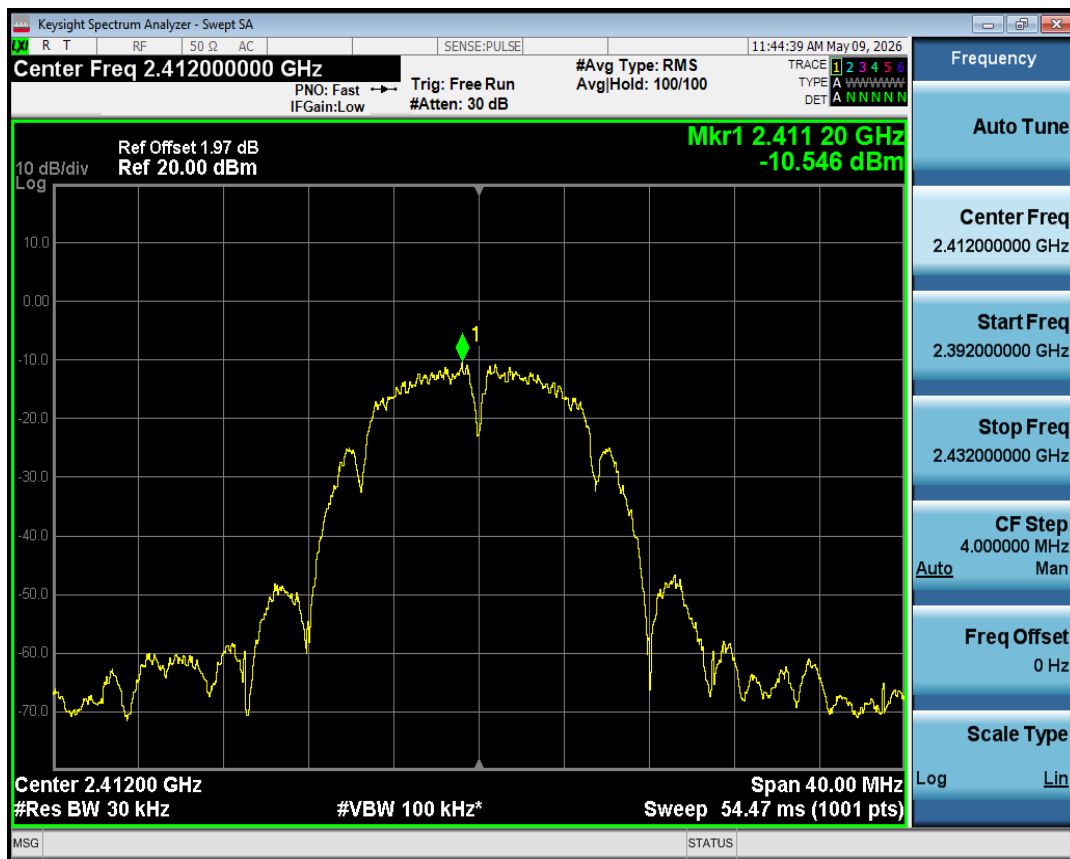


OBW NVNT n40 2452MHz Ant1

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	-20.55	0.52	-20.03	8	Pass
NVNT	b	2437	Ant1	-20.39	0.56	-19.83	8	Pass
NVNT	b	2462	Ant1	-18.62	0.52	-18.1	8	Pass
NVNT	g	2412	Ant1	-21.02	2.49	-18.53	8	Pass
NVNT	g	2437	Ant1	-23.22	2.49	-20.73	8	Pass
NVNT	g	2462	Ant1	-21.17	2.49	-18.68	8	Pass
NVNT	n20	2412	Ant1	-21.72	2.49	-19.23	8	Pass
NVNT	n20	2437	Ant1	-23.64	2.45	-21.19	8	Pass
NVNT	n20	2462	Ant1	-21.05	2.49	-18.56	8	Pass
NVNT	n40	2422	Ant1	-26.09	3.34	-22.75	8	Pass
NVNT	n40	2437	Ant1	-26.01	3.39	-22.62	8	Pass
NVNT	n40	2452	Ant1	-25.02	3.34	-21.68	8	Pass

Remark: $PSD(dBm/3kHz) = PSD(dBm/30kHz) - 10\log(30kHz/3kHz)$



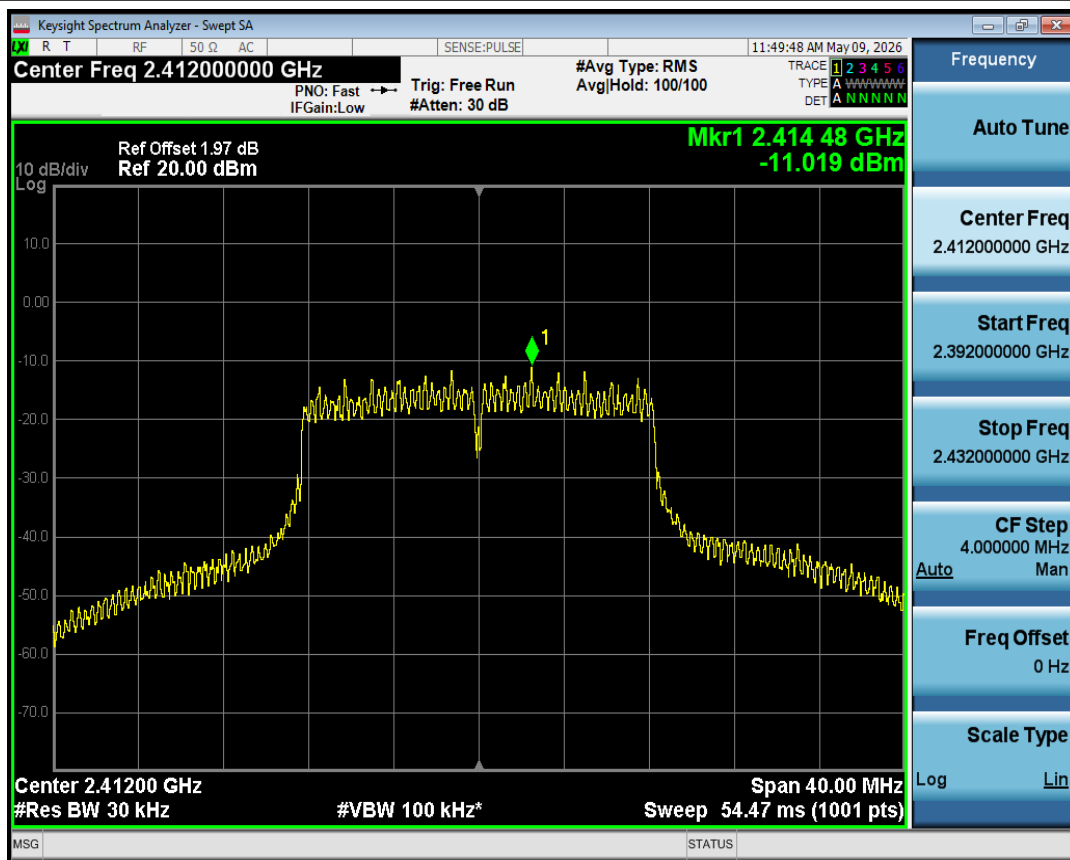
PSD NVNT b 2412MHz Ant1



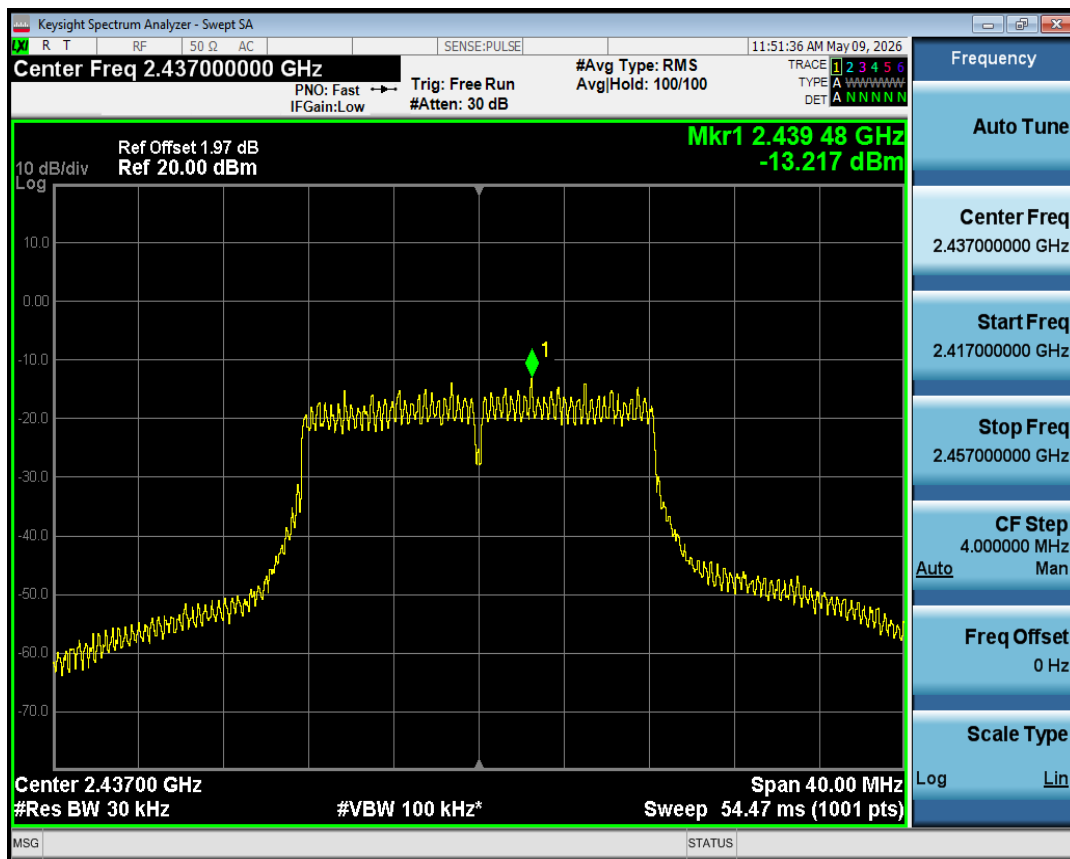
PSD NVNT b 2437MHz Ant1



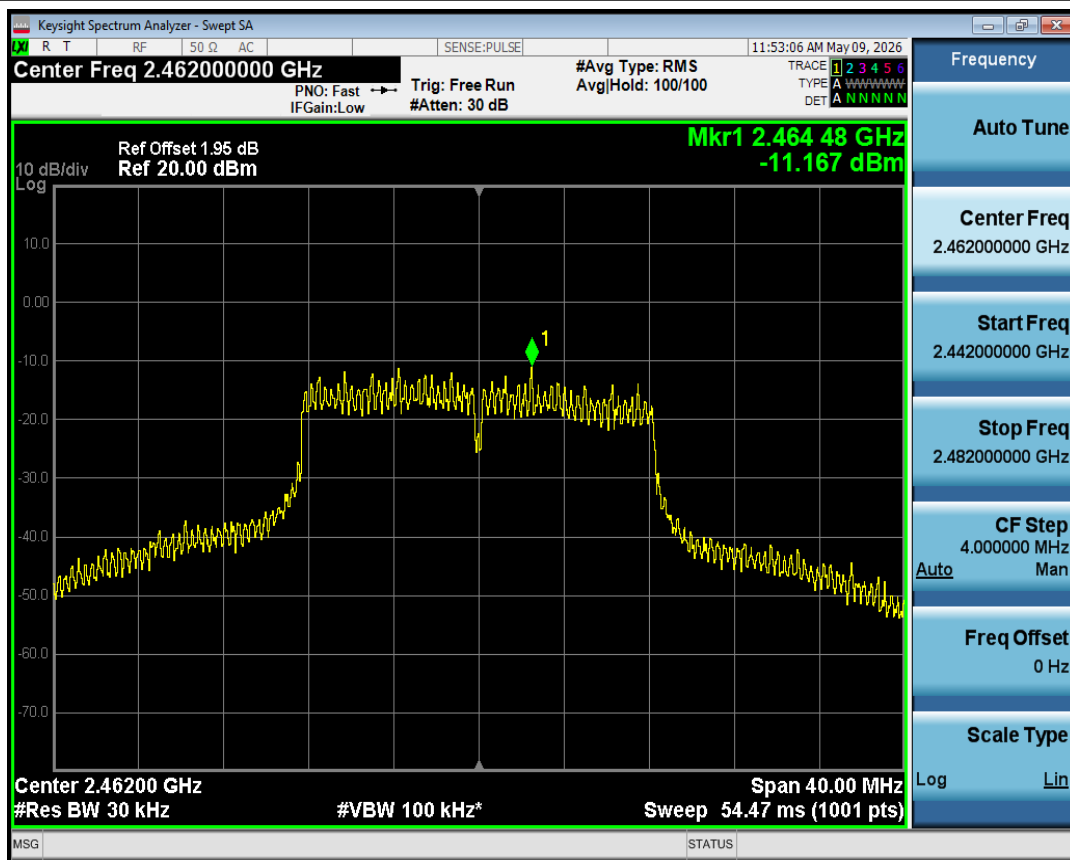
PSD NVNT b 2462MHz Ant1



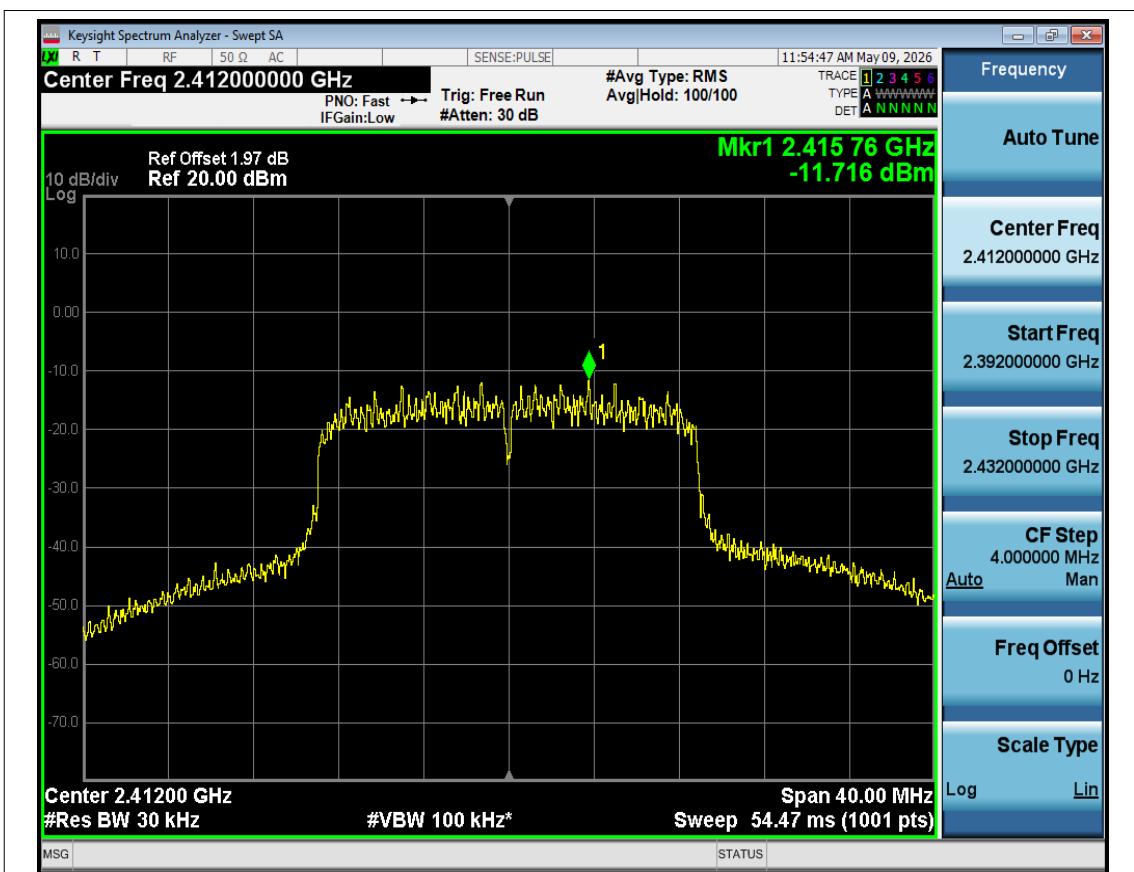
PSD NVNT g 2412MHz Ant1



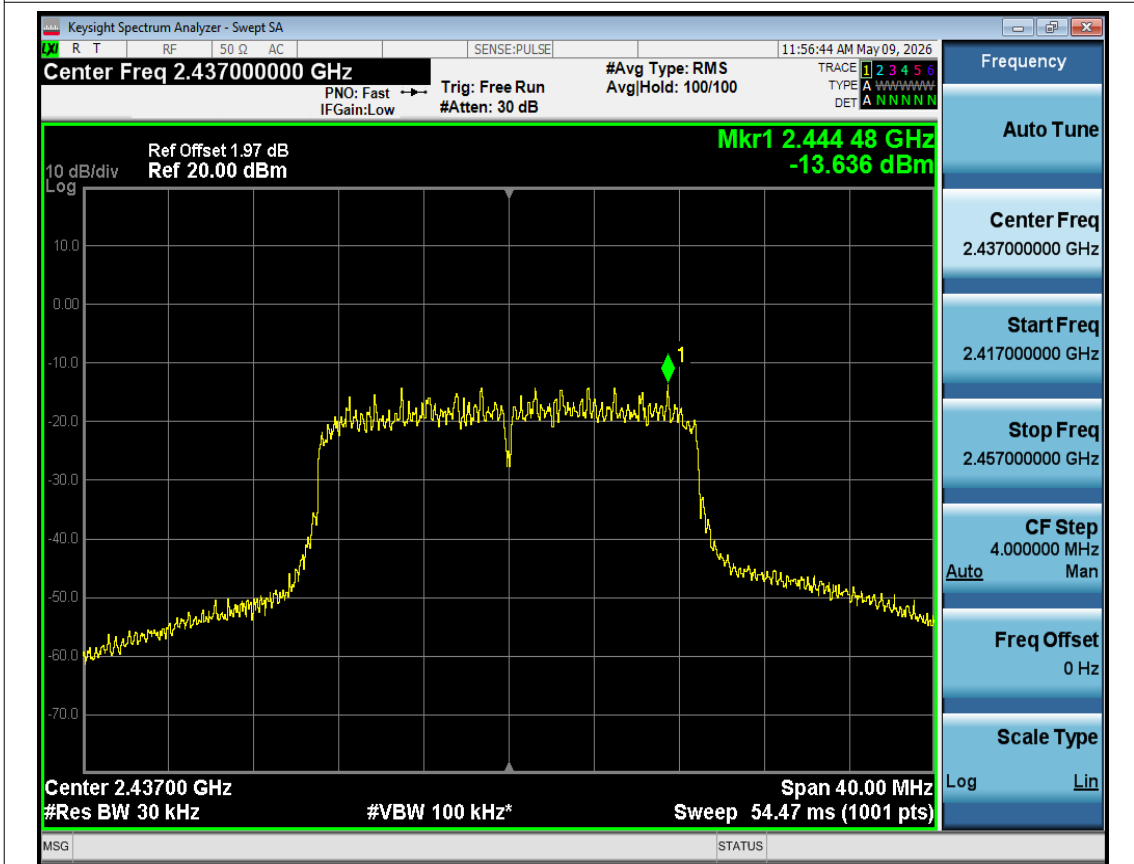
PSD NVNT g 2437MHz Ant1



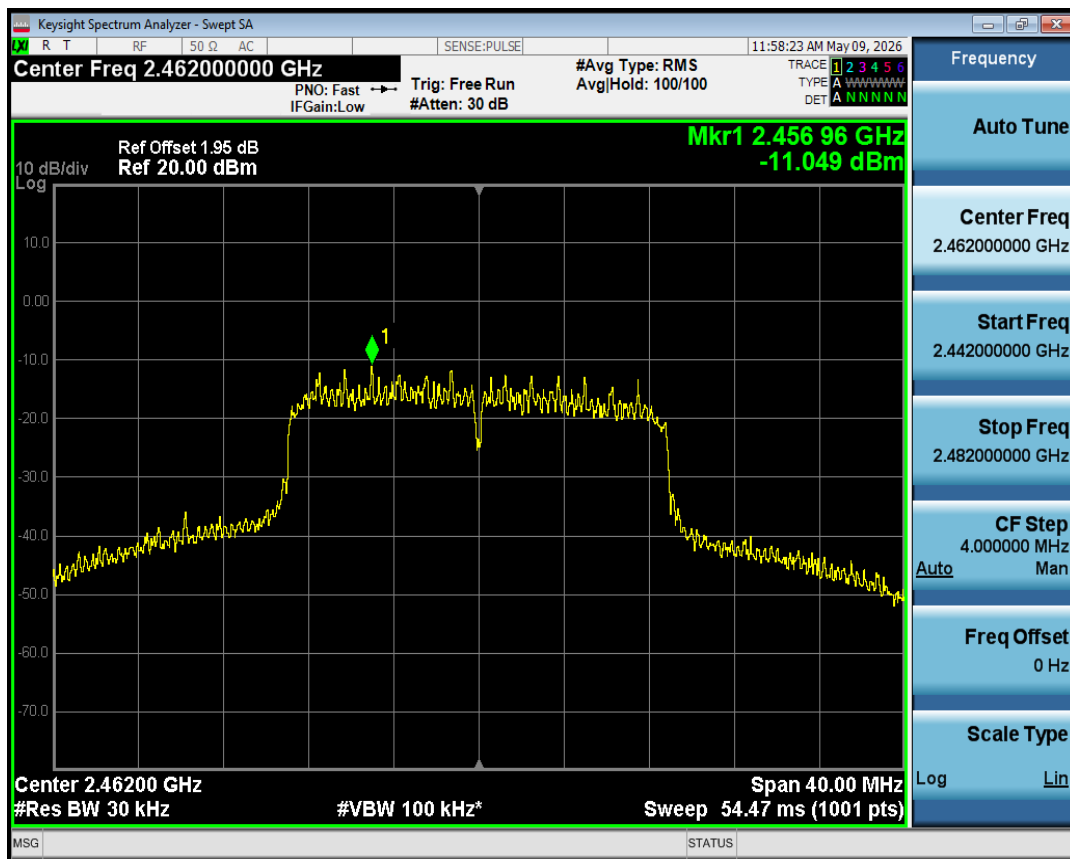
PSD NVNT g 2462MHz Ant1



PSD NVNT n20 2412MHz Ant1



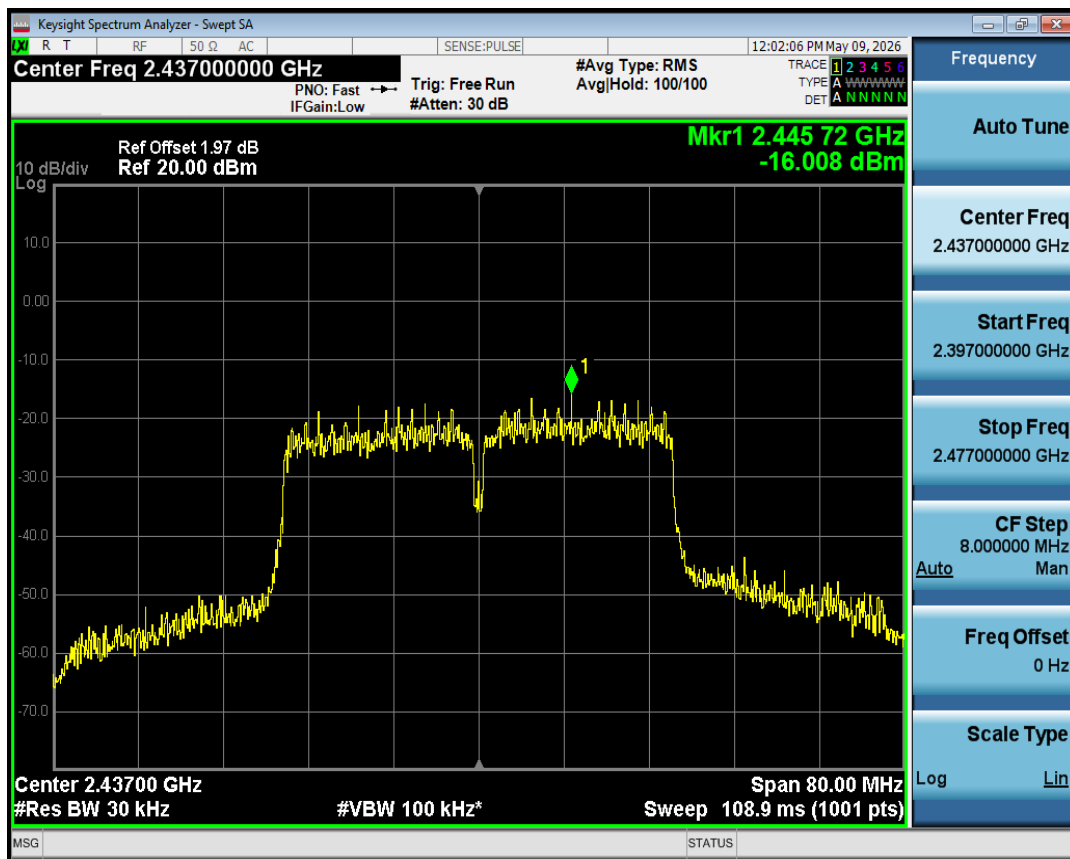
PSD NVNT n20 2437MHz Ant1



PSD NVNT n20 2462MHz Ant1



PSD NVNT n40 2422MHz Ant1



PSD NVNT n40 2437MHz Ant1



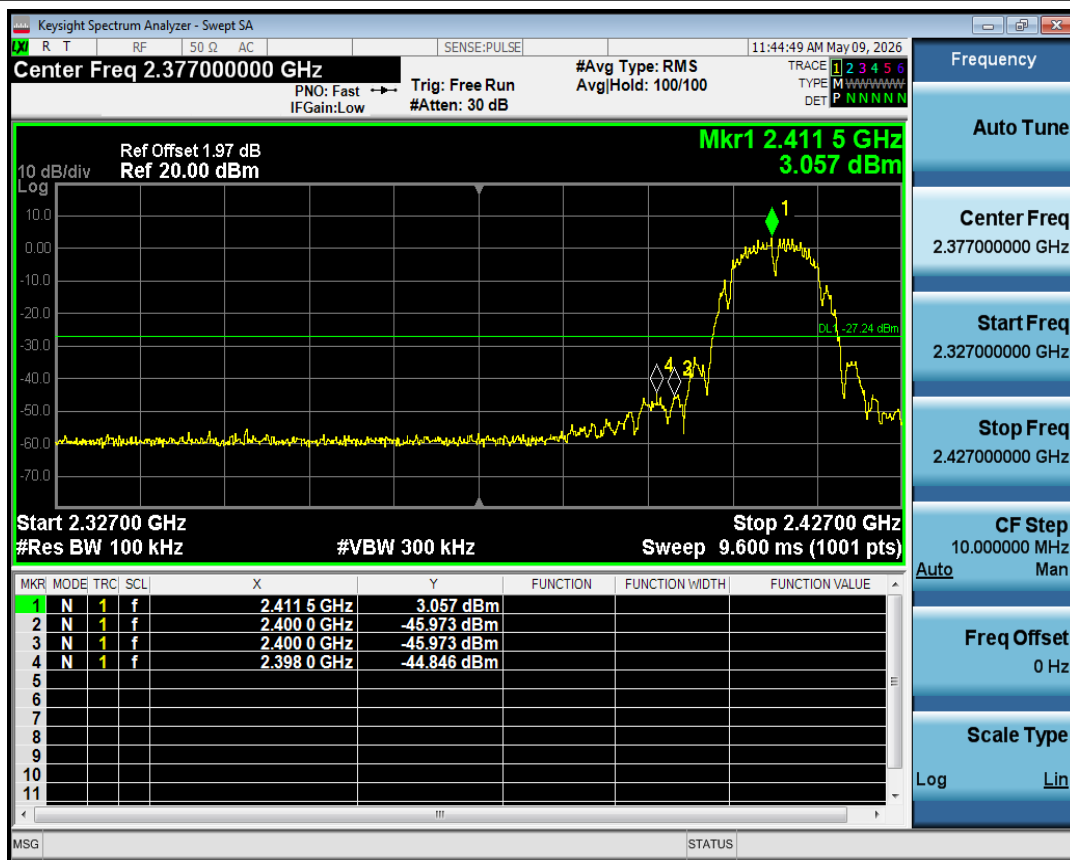
PSD NVNT n40 2452MHz Ant1

Band Edge

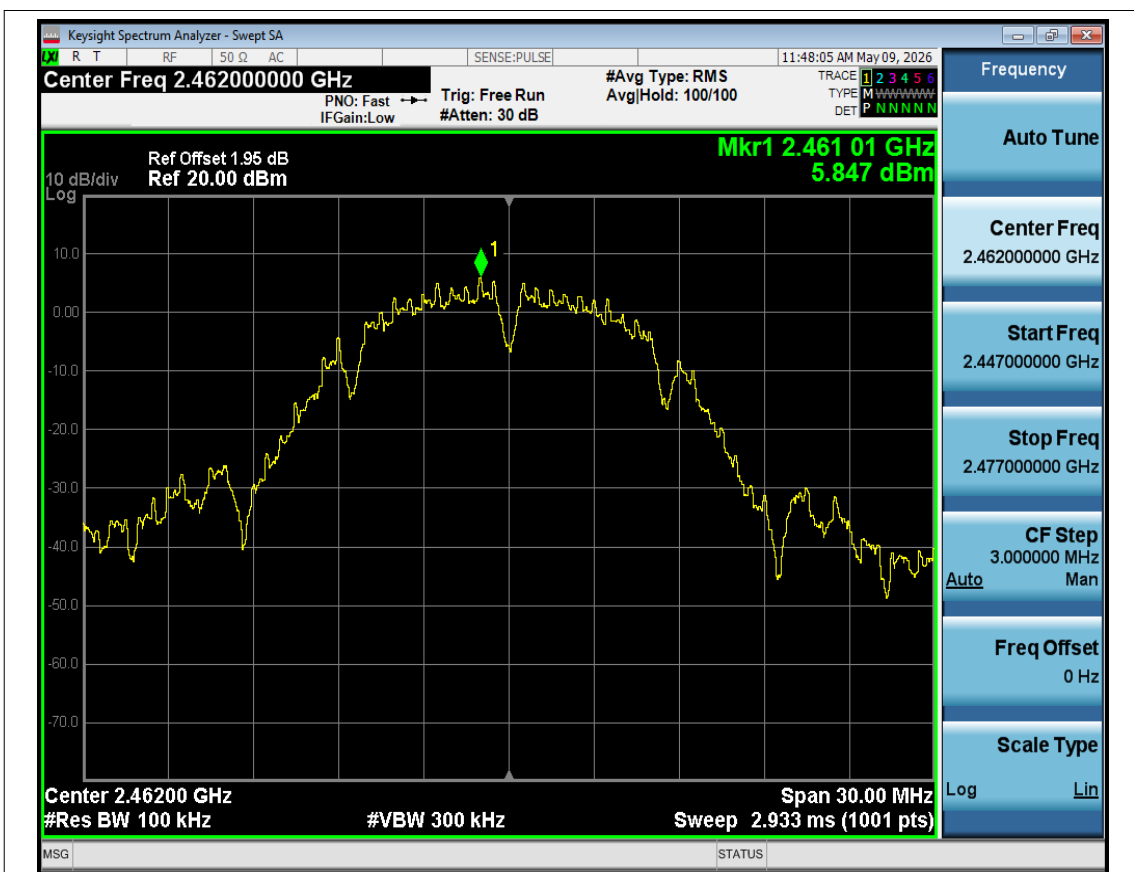
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-47.6	-30	Pass
NVNT	b	2462	Ant1	-59.69	-30	Pass
NVNT	g	2412	Ant1	-32.43	-30	Pass
NVNT	g	2462	Ant1	-40.75	-30	Pass
NVNT	n20	2412	Ant1	-31.26	-30	Pass
NVNT	n20	2462	Ant1	-37.67	-30	Pass
NVNT	n40	2422	Ant1	-31.09	-30	Pass
NVNT	n40	2452	Ant1	-30.45	-30	Pass



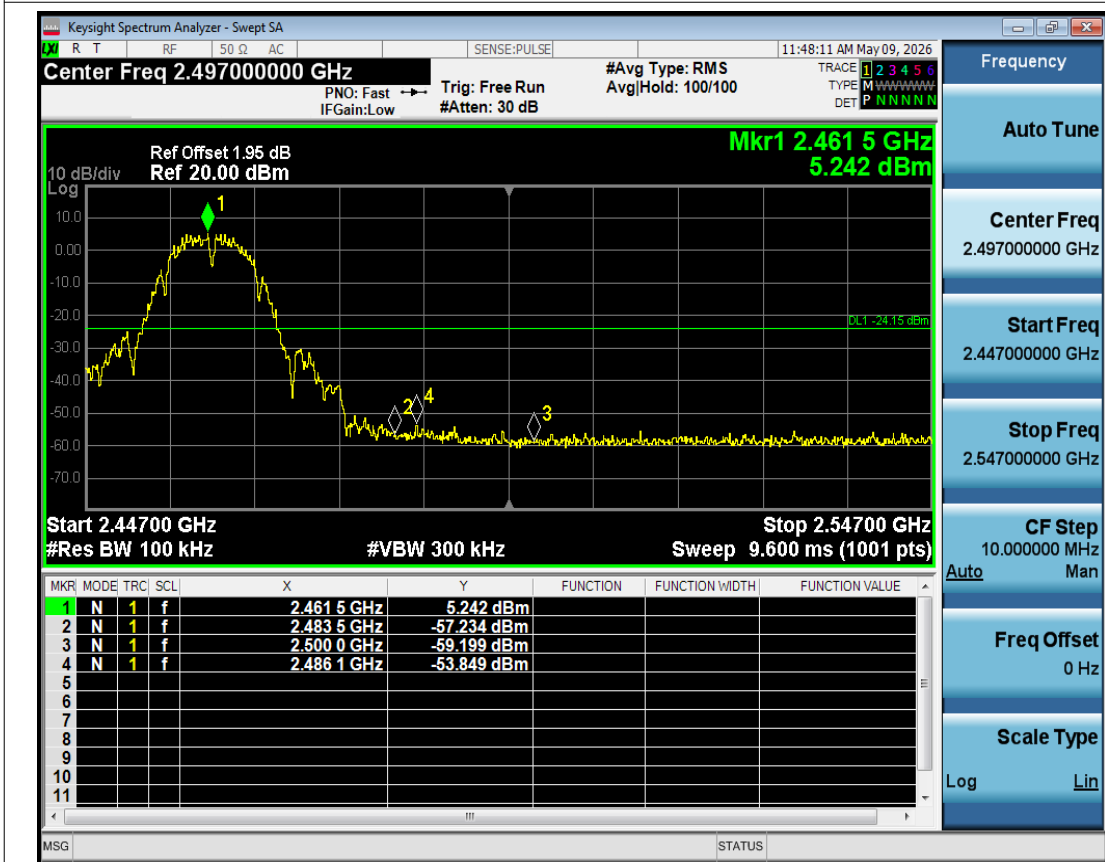
Band Edge NVNT b 2412MHz Ant1 Ref



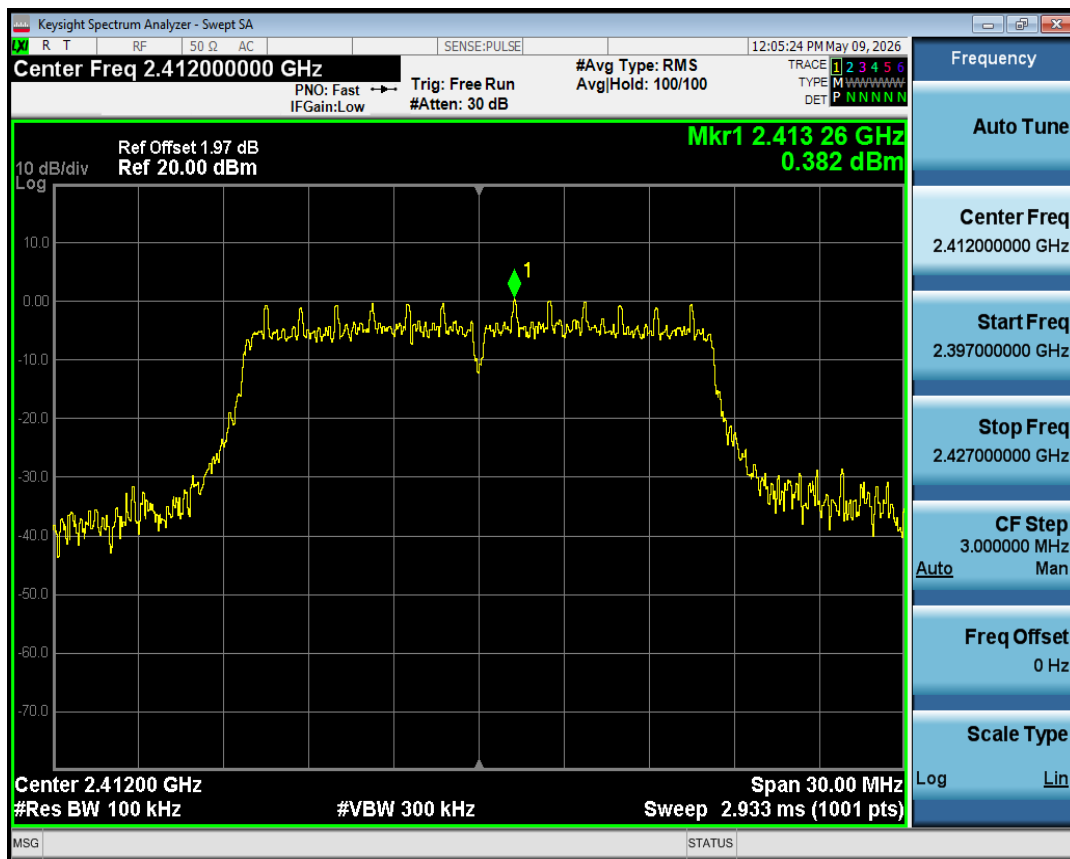
Band Edge NVNT b 2412MHz Ant1 Emission



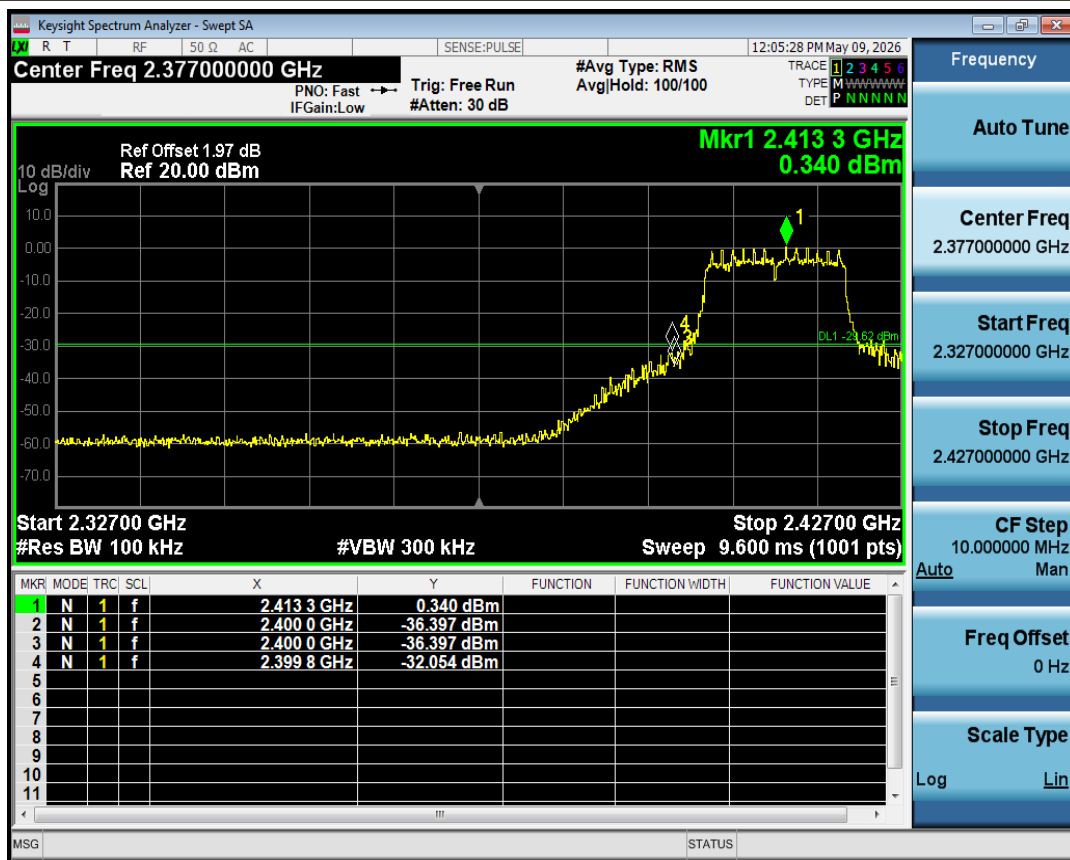
Band Edge NVNT b 2462MHz Ant1 Ref



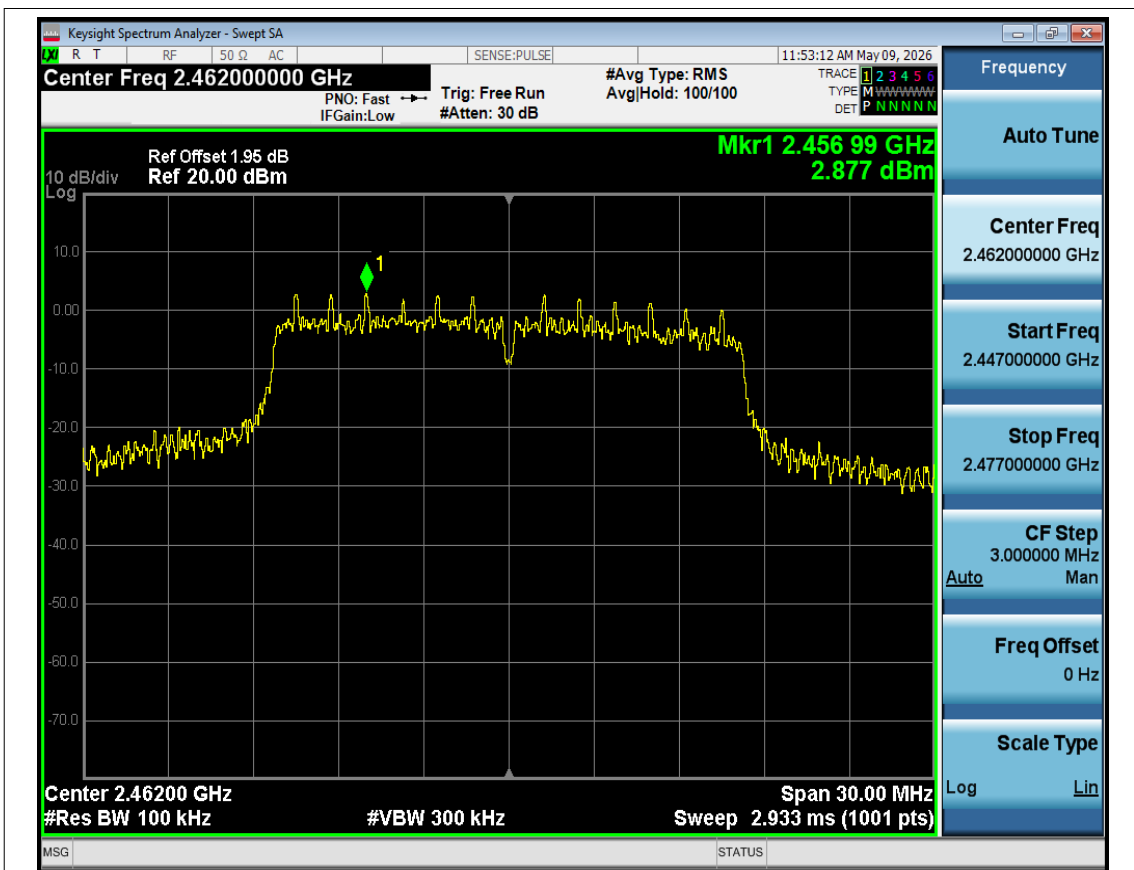
Band Edge NVNT b 2462MHz Ant1 Emission



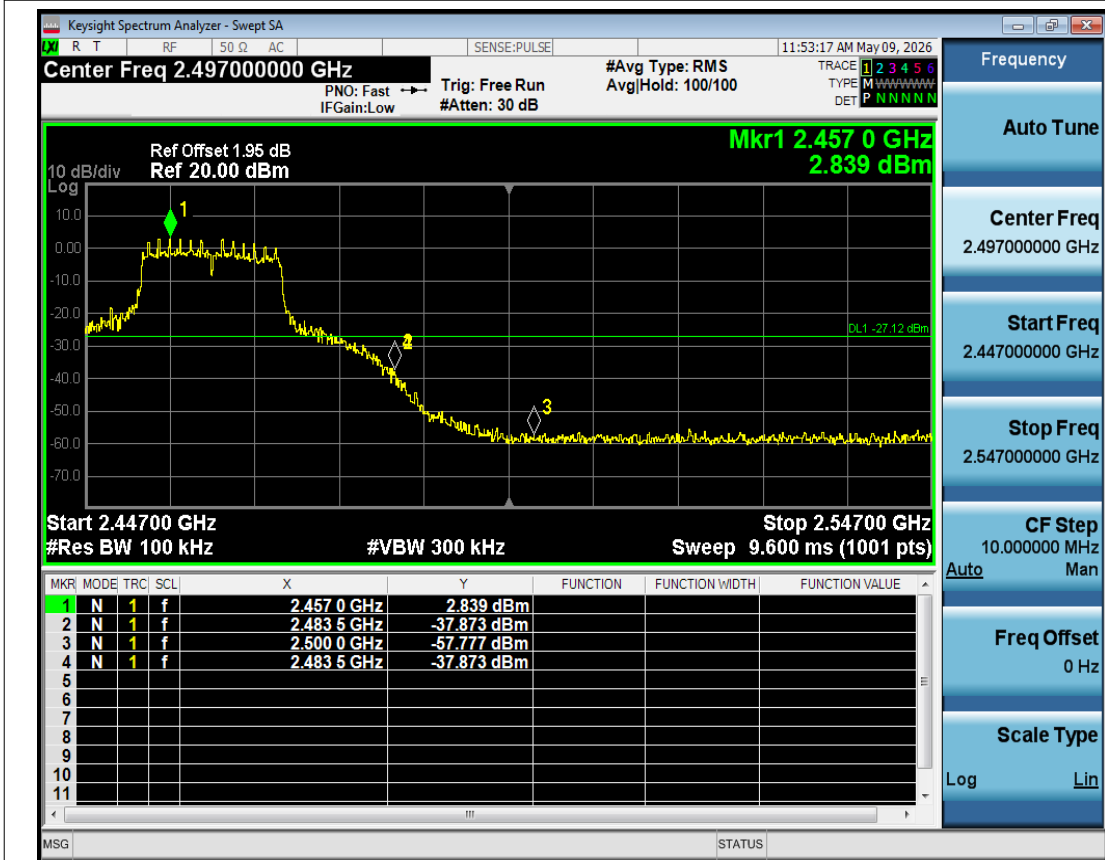
Band Edge NVNT g 2412MHz Ant1 Ref



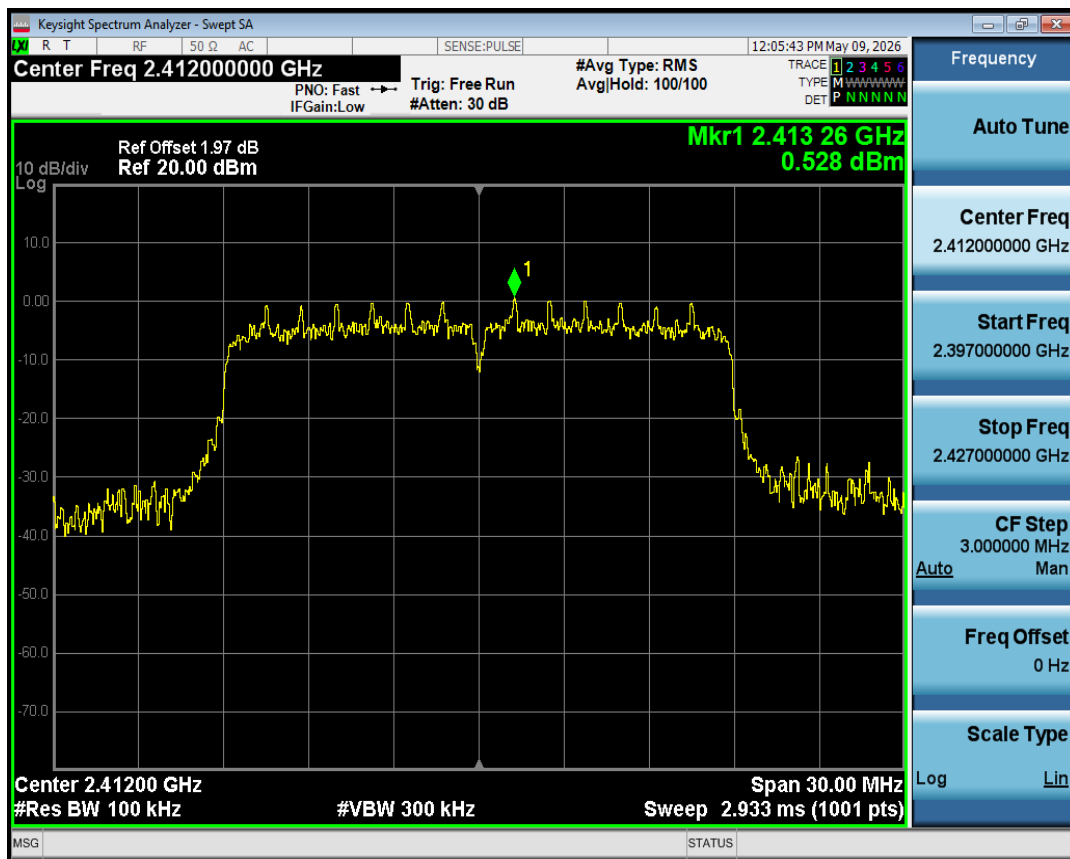
Band Edge NVNT g 2412MHz Ant1 Emission



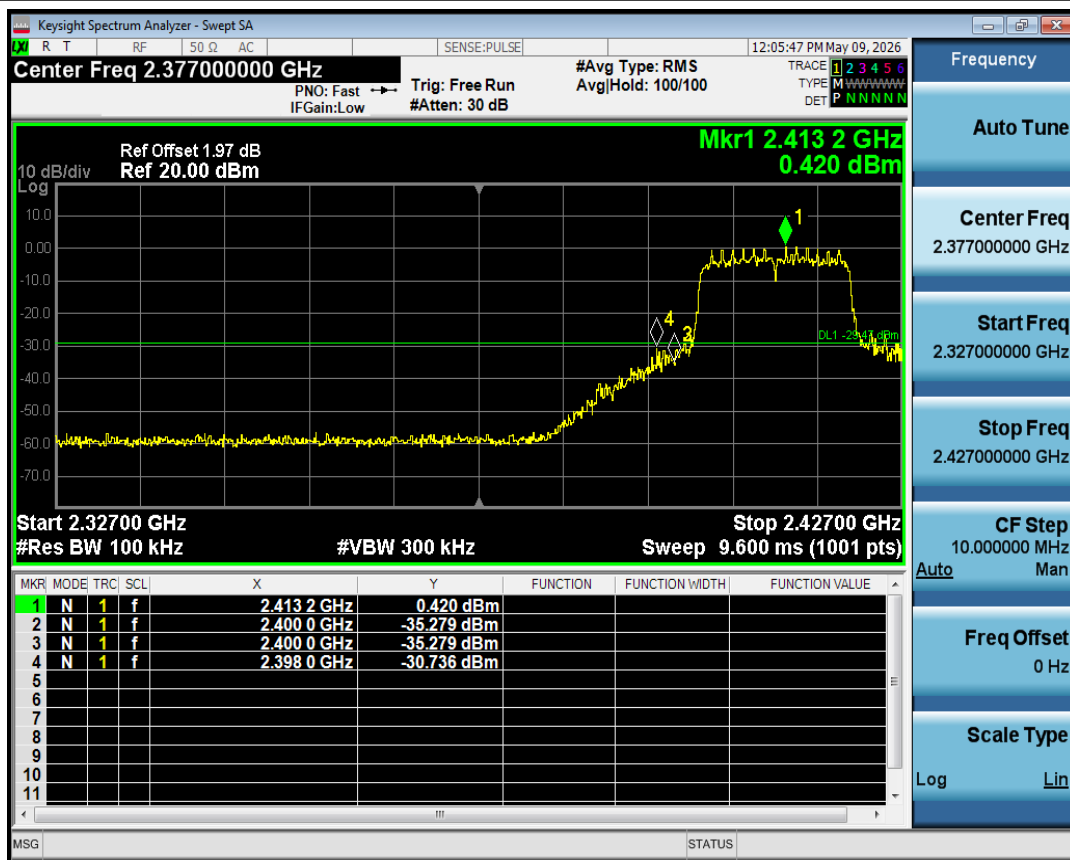
Band Edge NVNT g 2462MHz Ant1 Ref



Band Edge NVNT g 2462MHz Ant1 Emission



Band Edge NVNT n20 2412MHz Ant1 Ref



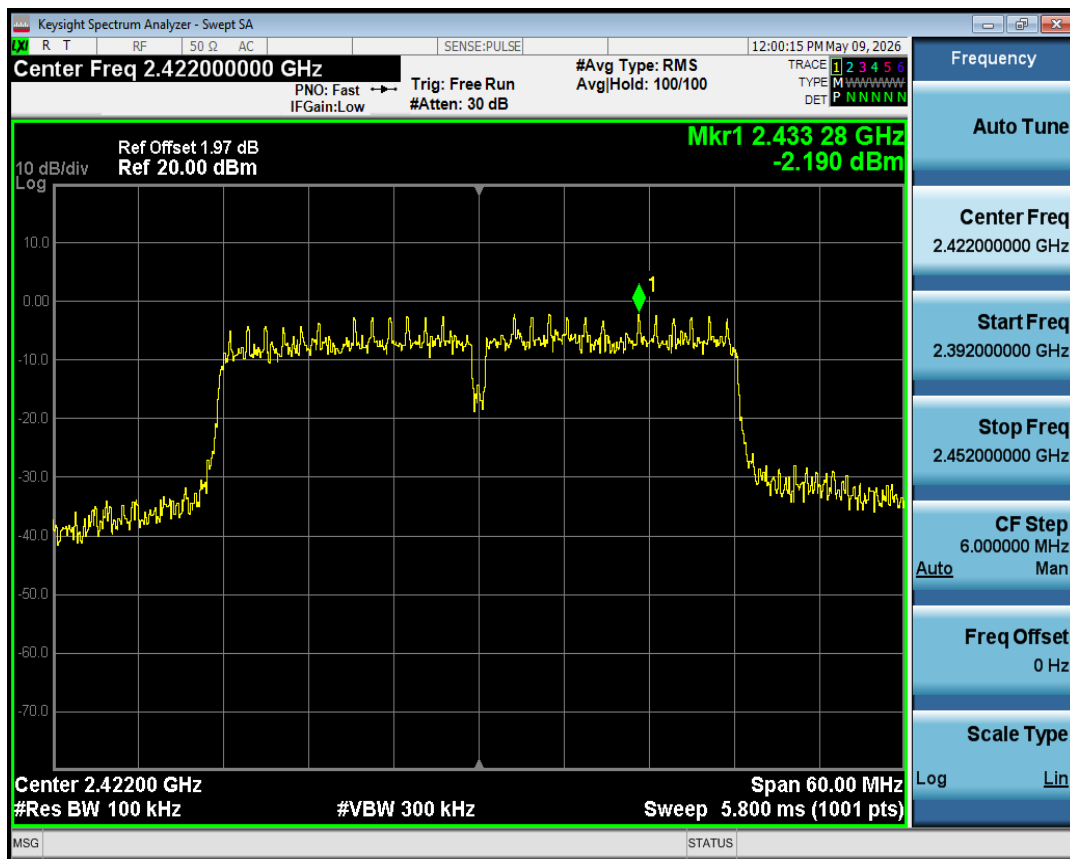
Band Edge NVNT n20 2412MHz Ant1 Emission



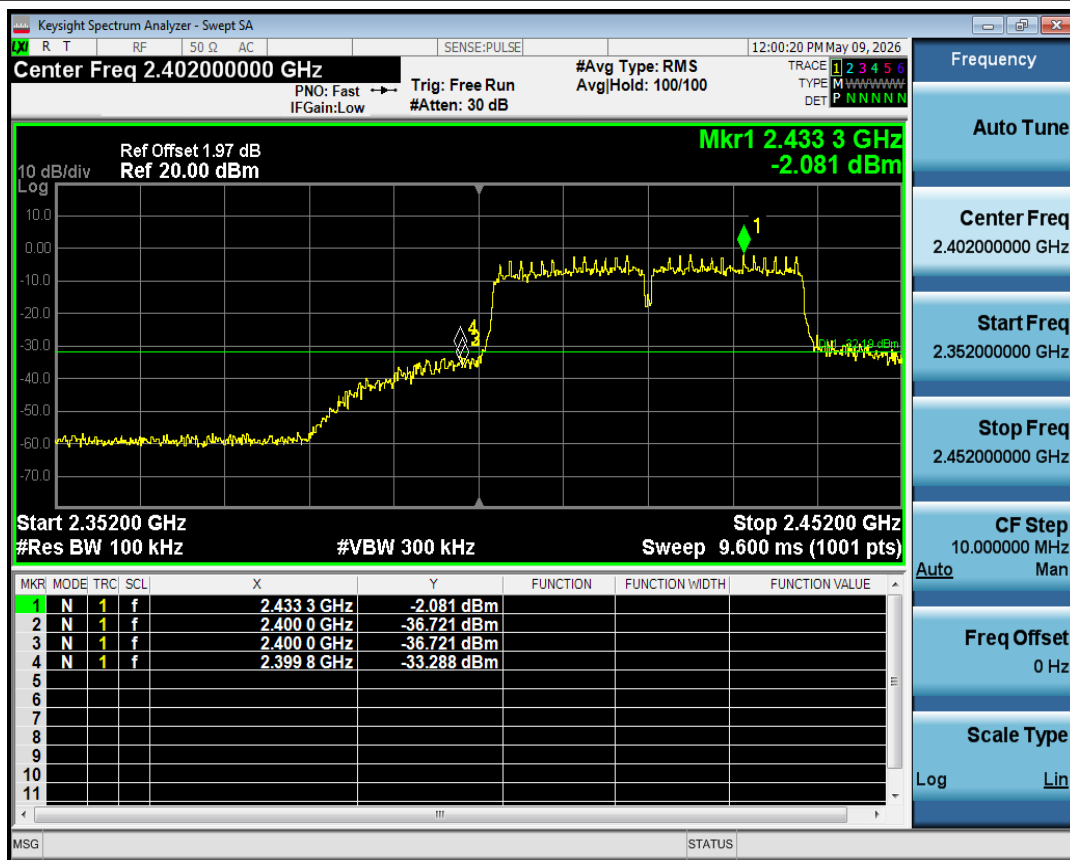
Band Edge NVNT n20 2462MHz Ant1 Ref



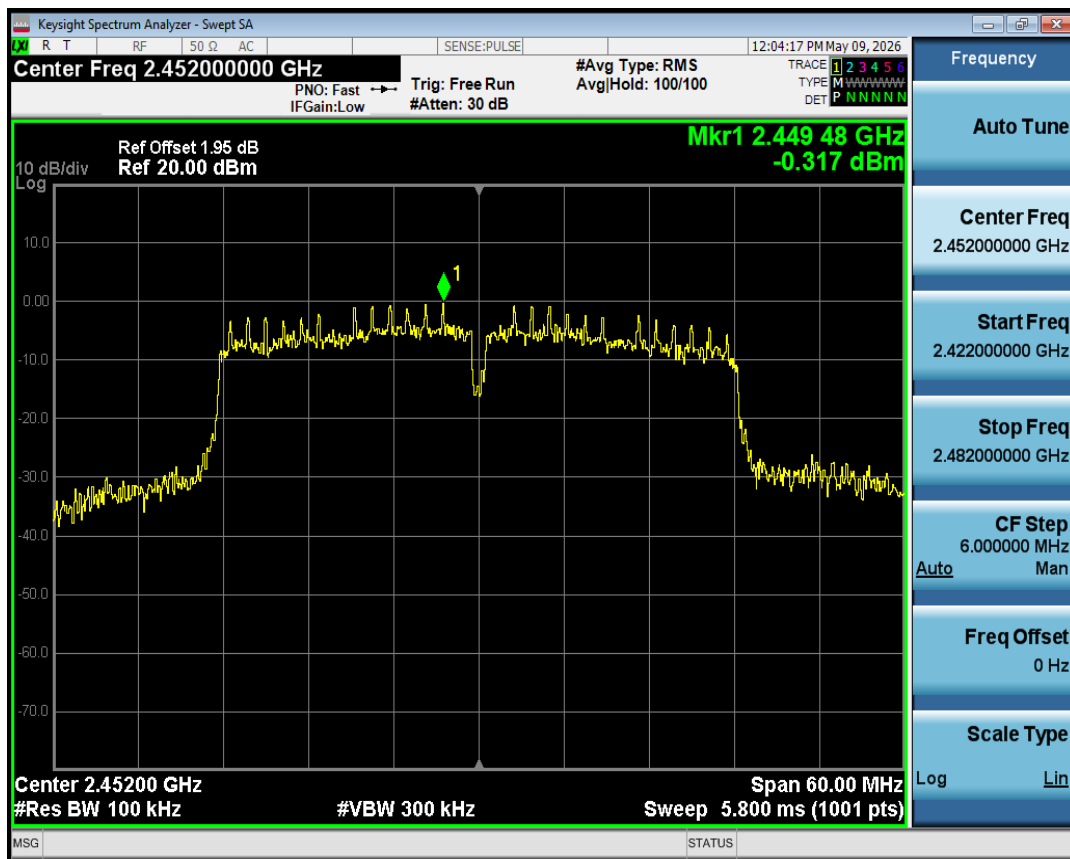
Band Edge NVNT n20 2462MHz Ant1 Emission



Band Edge NVNT n40 2422MHz Ant1 Ref



Band Edge NVNT n40 2422MHz Ant1 Emission



Band Edge NVNT n40 2452MHz Ant1 Ref



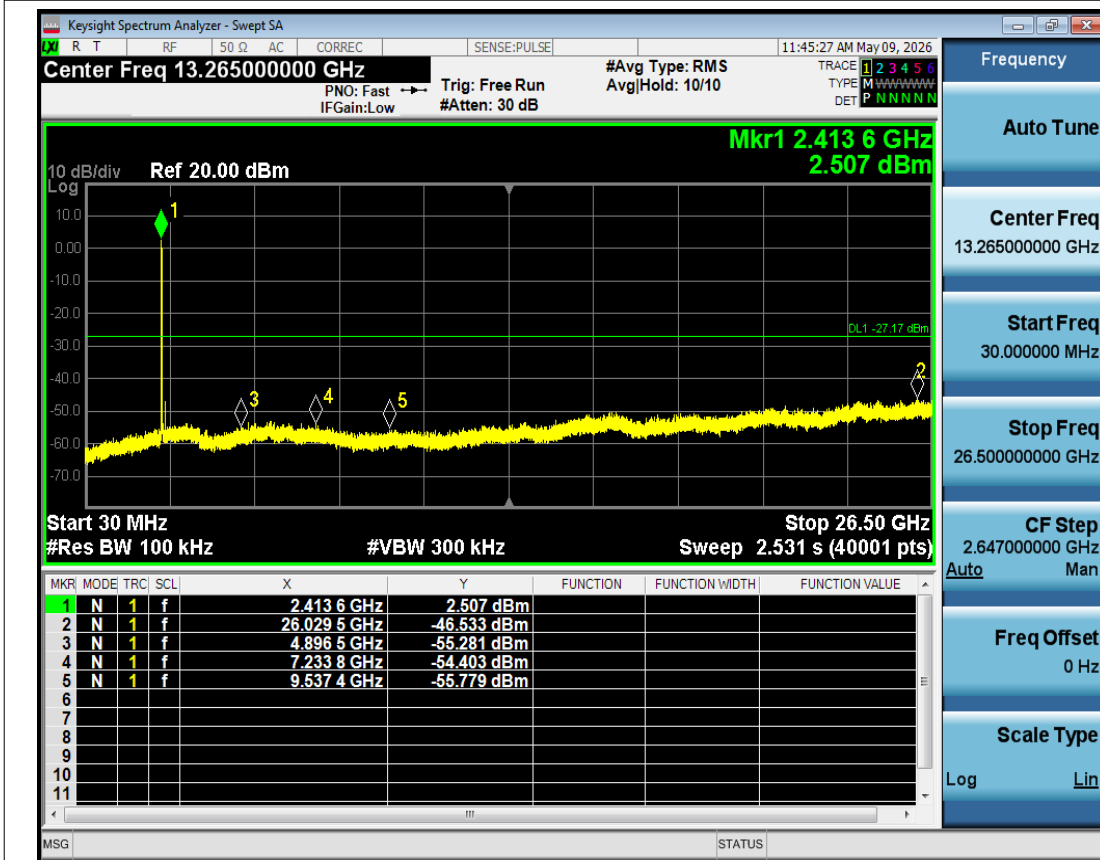
Band Edge NVNT n40 2452MHz Ant1 Emission

Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-49.36	-30	Pass
NVNT	b	2437	Ant1	-49.24	-30	Pass
NVNT	b	2462	Ant1	-51.92	-30	Pass
NVNT	g	2412	Ant1	-46.27	-30	Pass
NVNT	g	2437	Ant1	-47.02	-30	Pass
NVNT	g	2462	Ant1	-49.18	-30	Pass
NVNT	n20	2412	Ant1	-48.63	-30	Pass
NVNT	n20	2437	Ant1	-46.26	-30	Pass
NVNT	n20	2462	Ant1	-49.04	-30	Pass
NVNT	n40	2422	Ant1	-44.14	-30	Pass
NVNT	n40	2437	Ant1	-43.39	-30	Pass
NVNT	n40	2452	Ant1	-46.13	-30	Pass



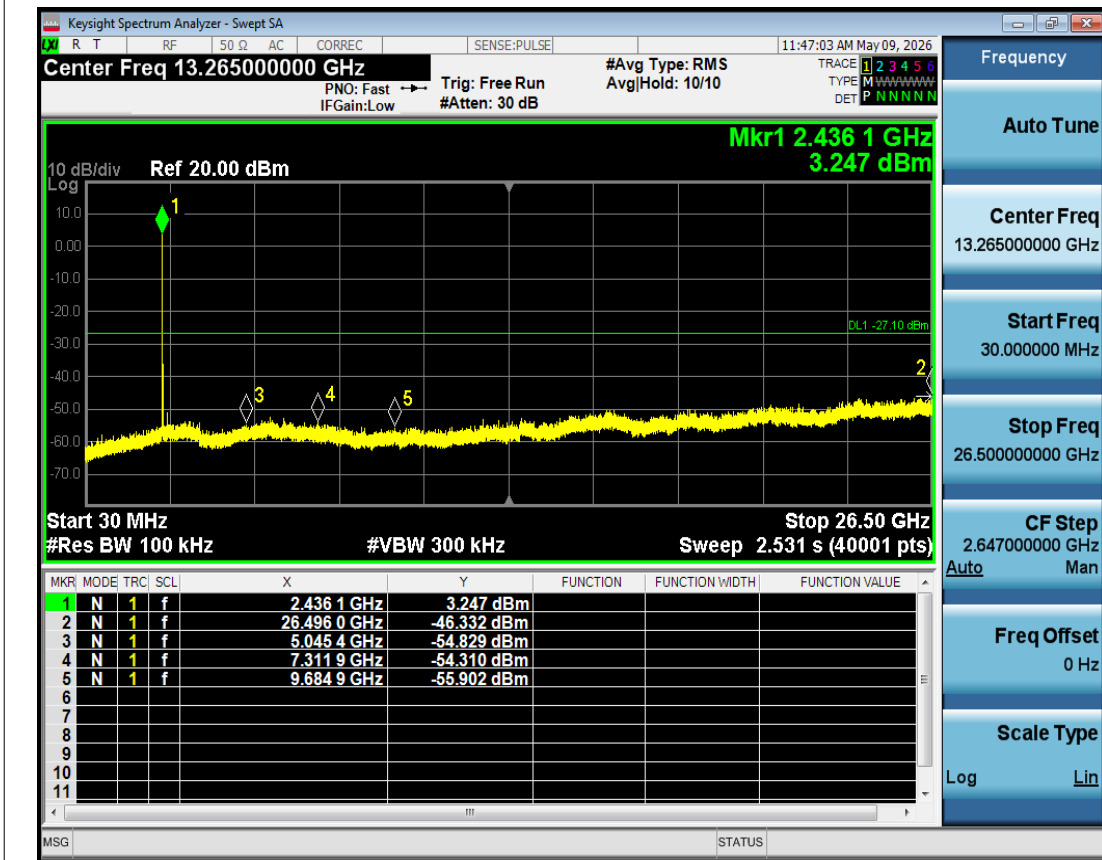
Tx. Spurious NVNT b 2412MHz Ant1 Ref



Tx. Spurious NVNT b 2412MHz Ant1 Emission



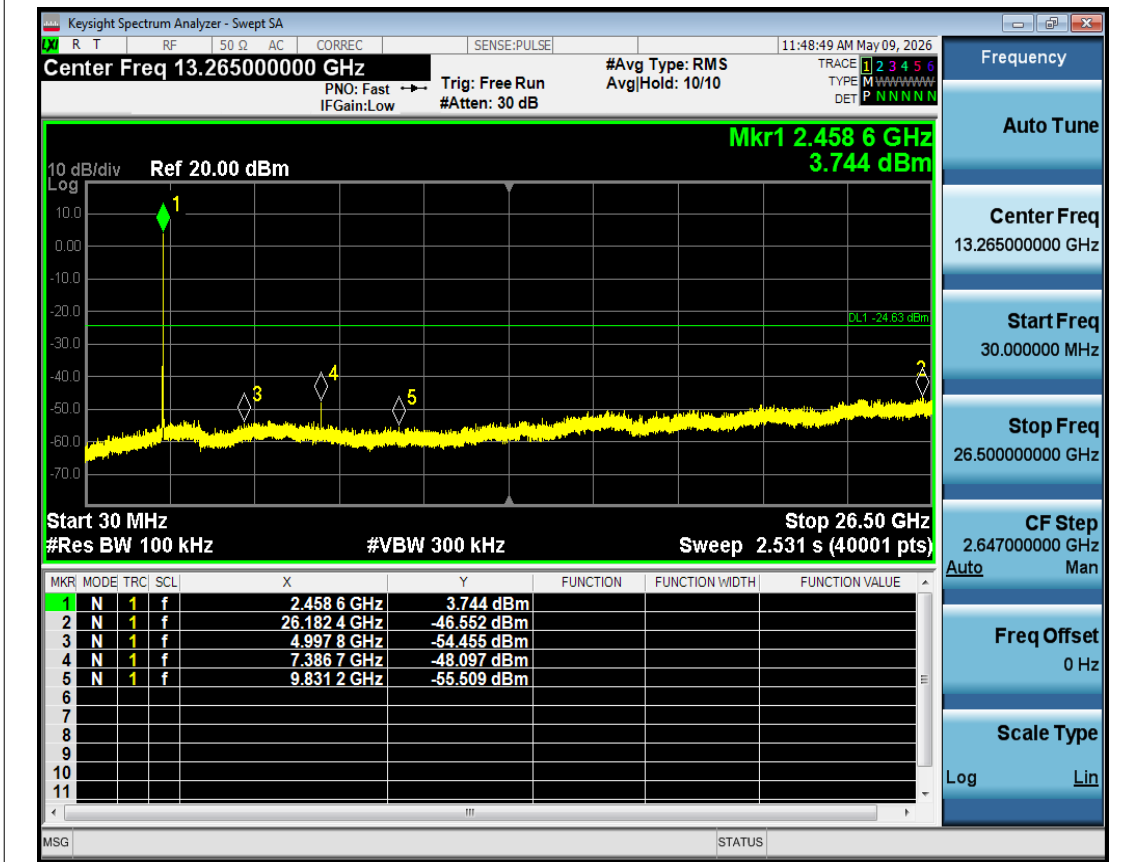
Tx. Spurious NVNT b 2437MHz Ant1 Ref



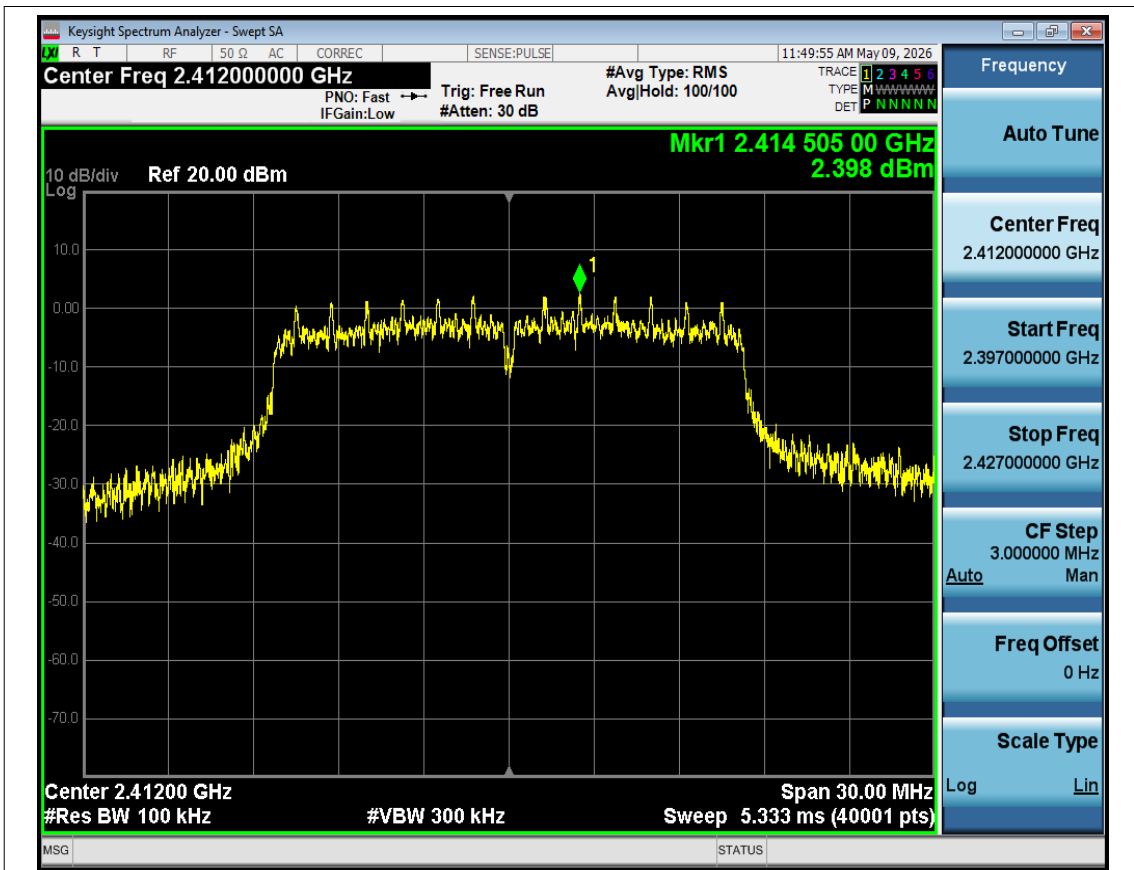
Tx. Spurious NVNT b 2437MHz Ant1 Emission



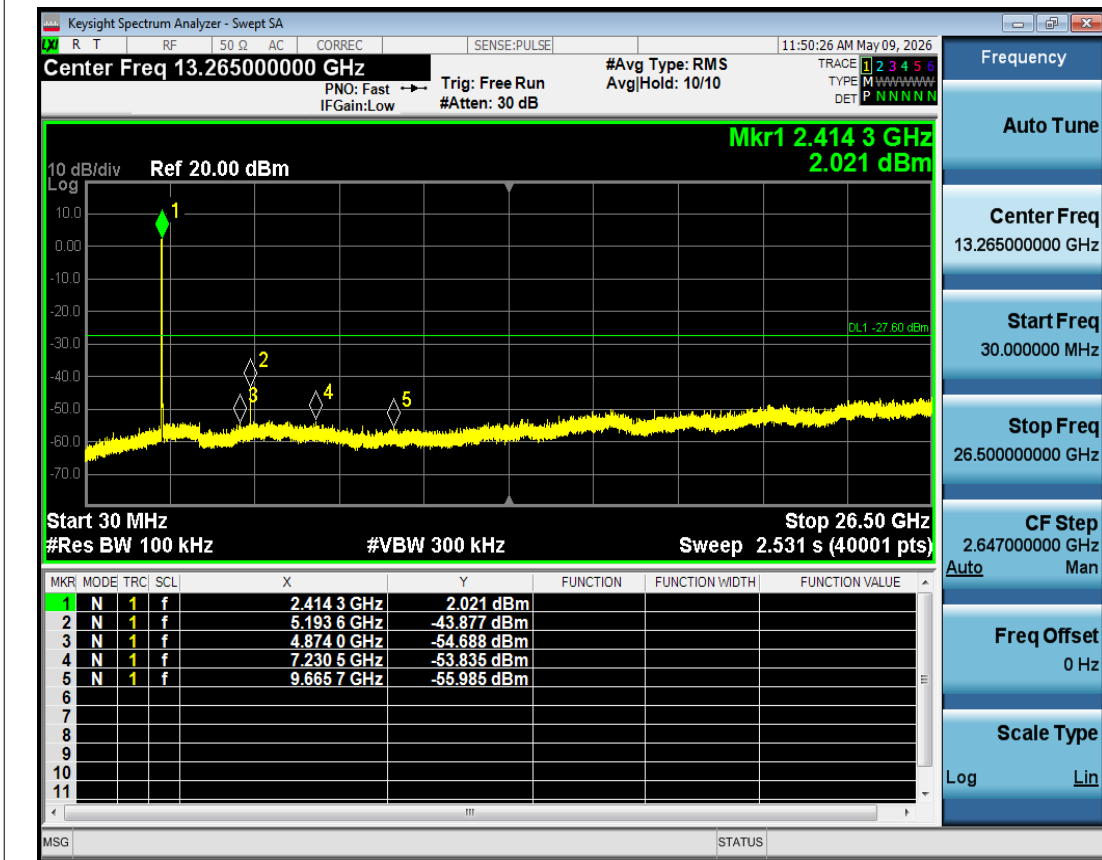
Tx. Spurious NVNT b 2462MHz Ant1 Ref



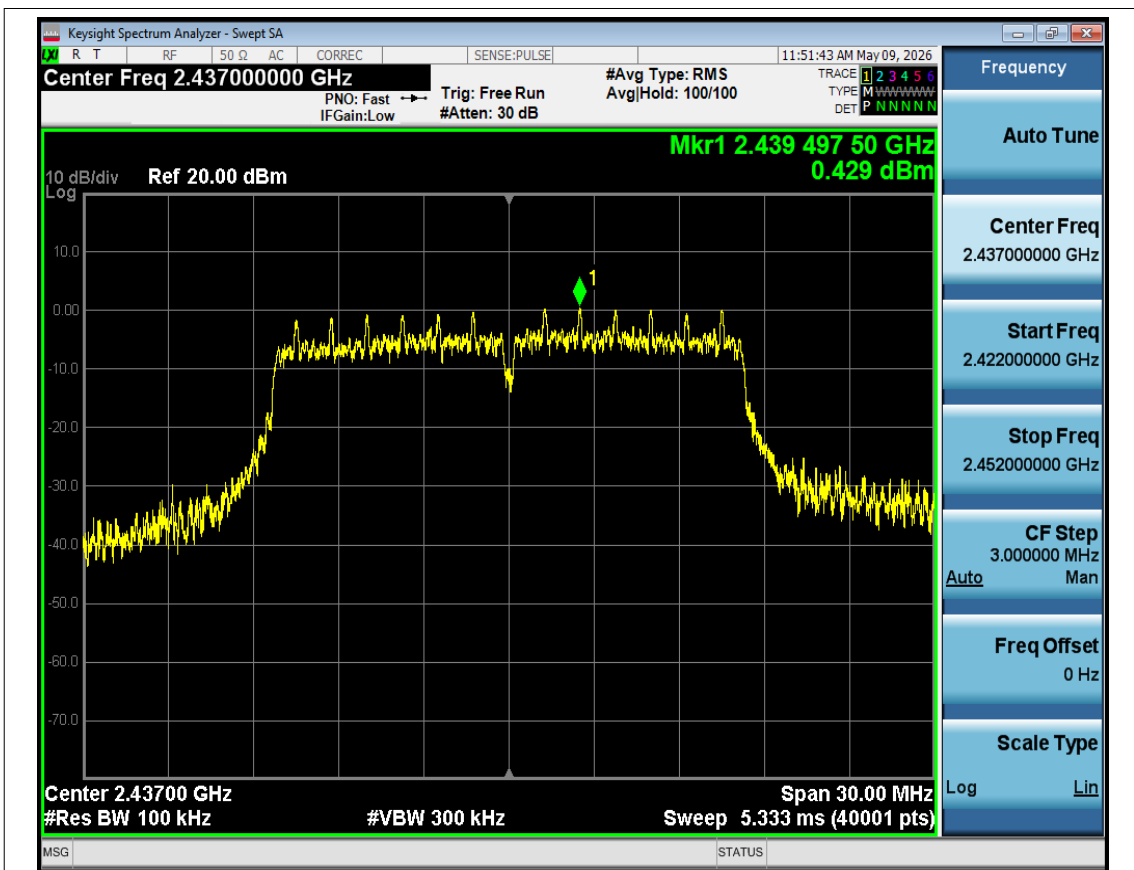
Tx. Spurious NVNT b 2462MHz Ant1 Emission



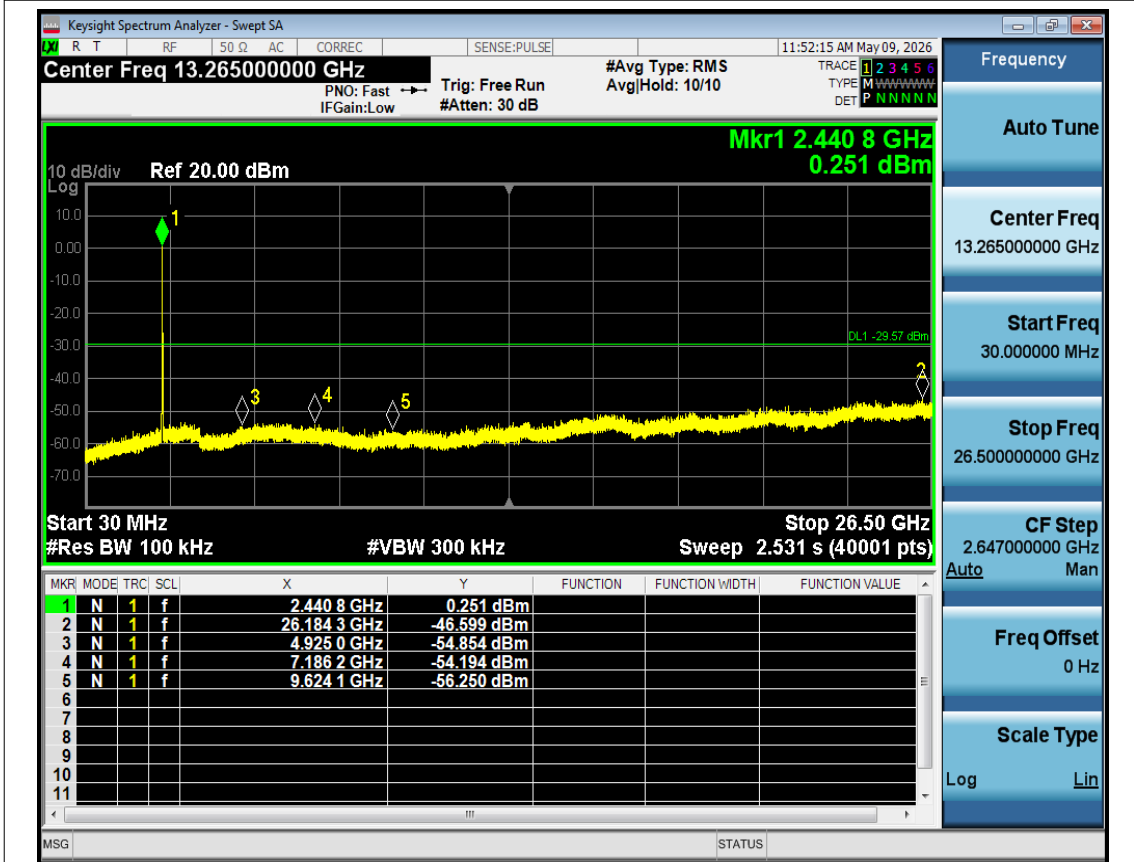
Tx. Spurious NVNT g 2412MHz Ant1 Ref



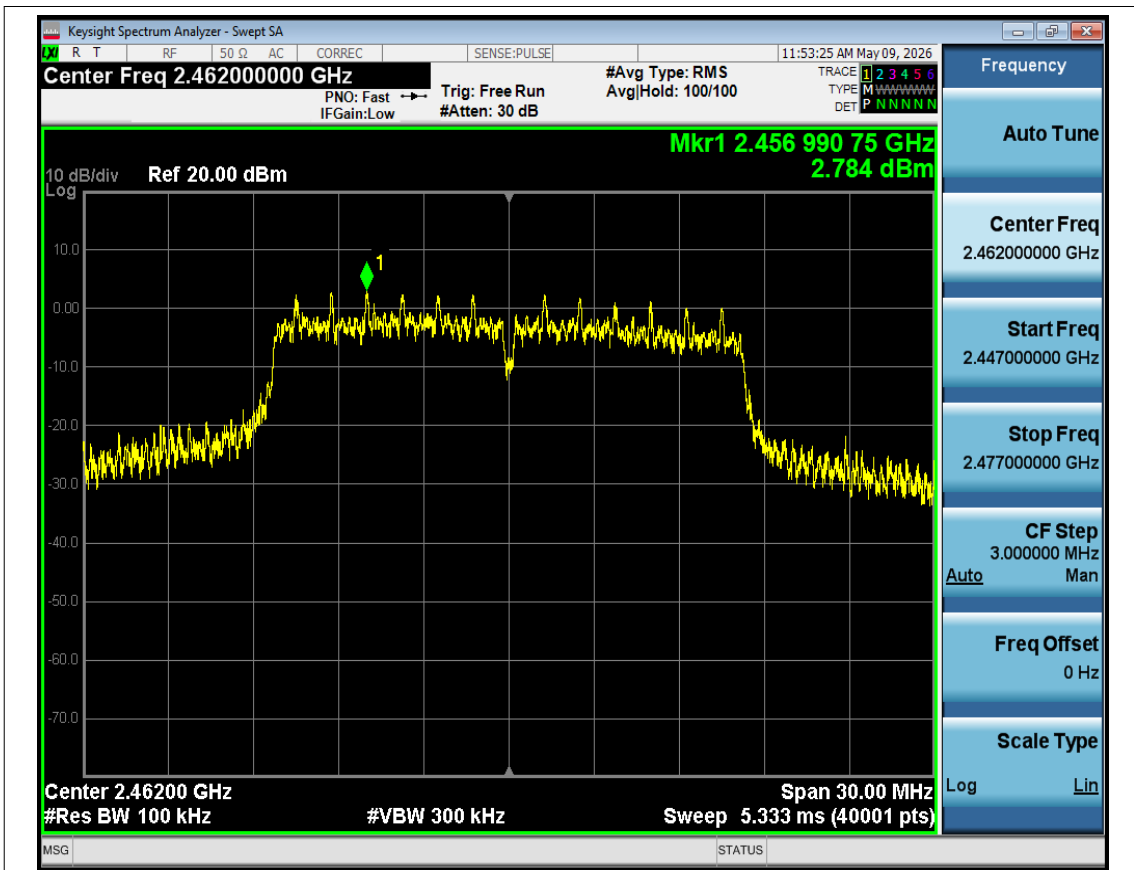
Tx. Spurious NVNT g 2412MHz Ant1 Emission



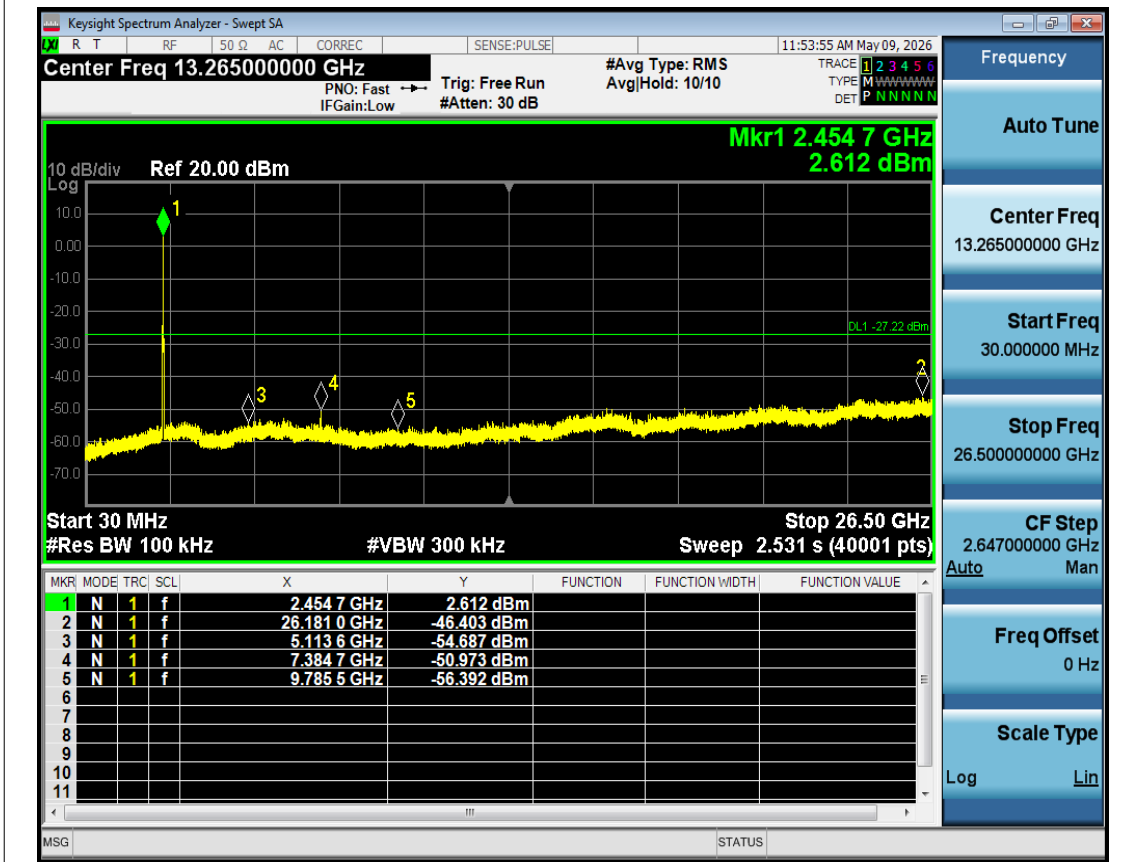
Tx. Spurious NVNT g 2437MHz Ant1 Ref



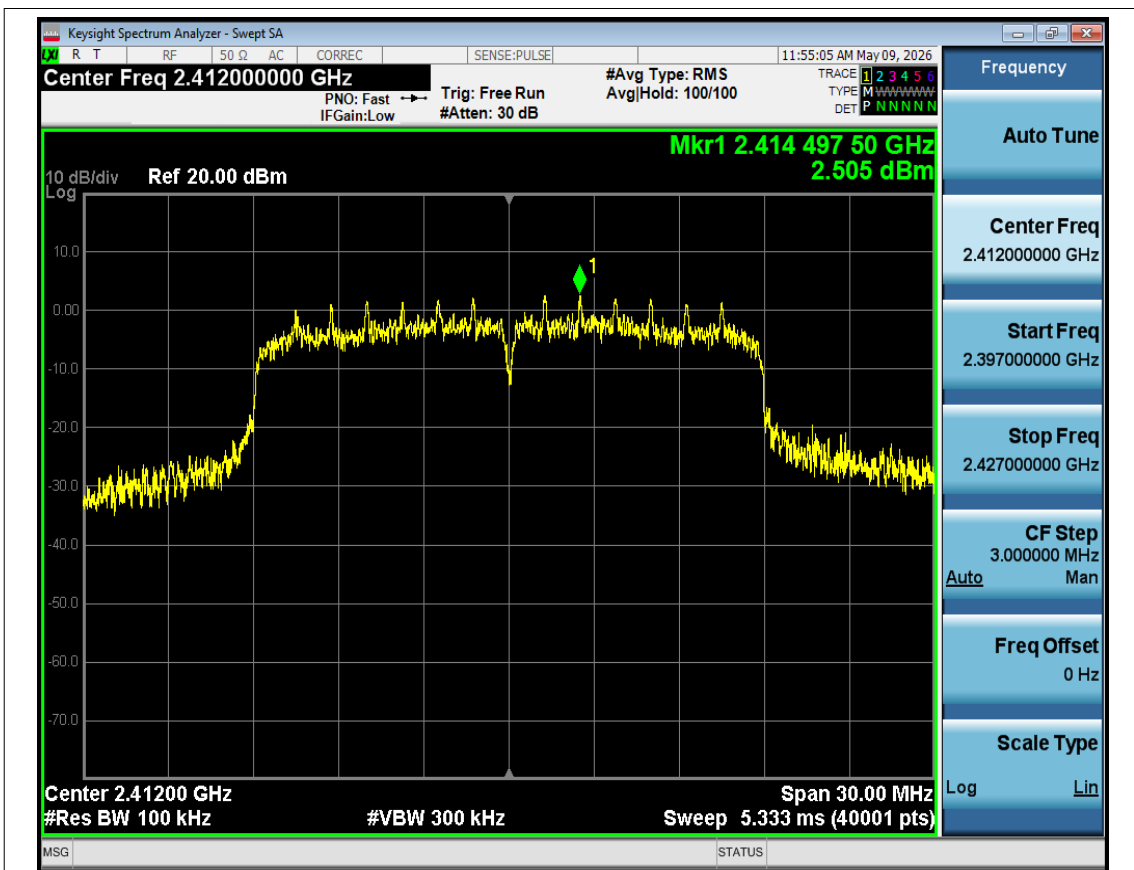
Tx. Spurious NVNT g 2437MHz Ant1 Emission



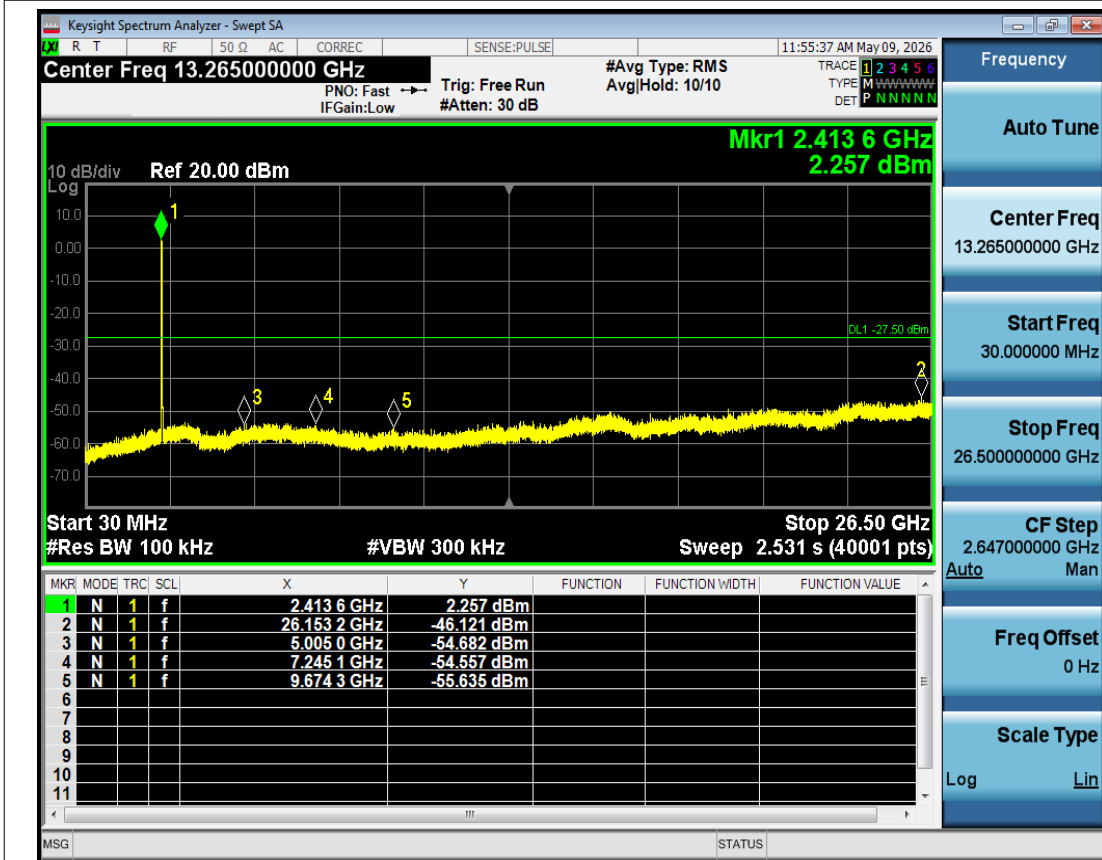
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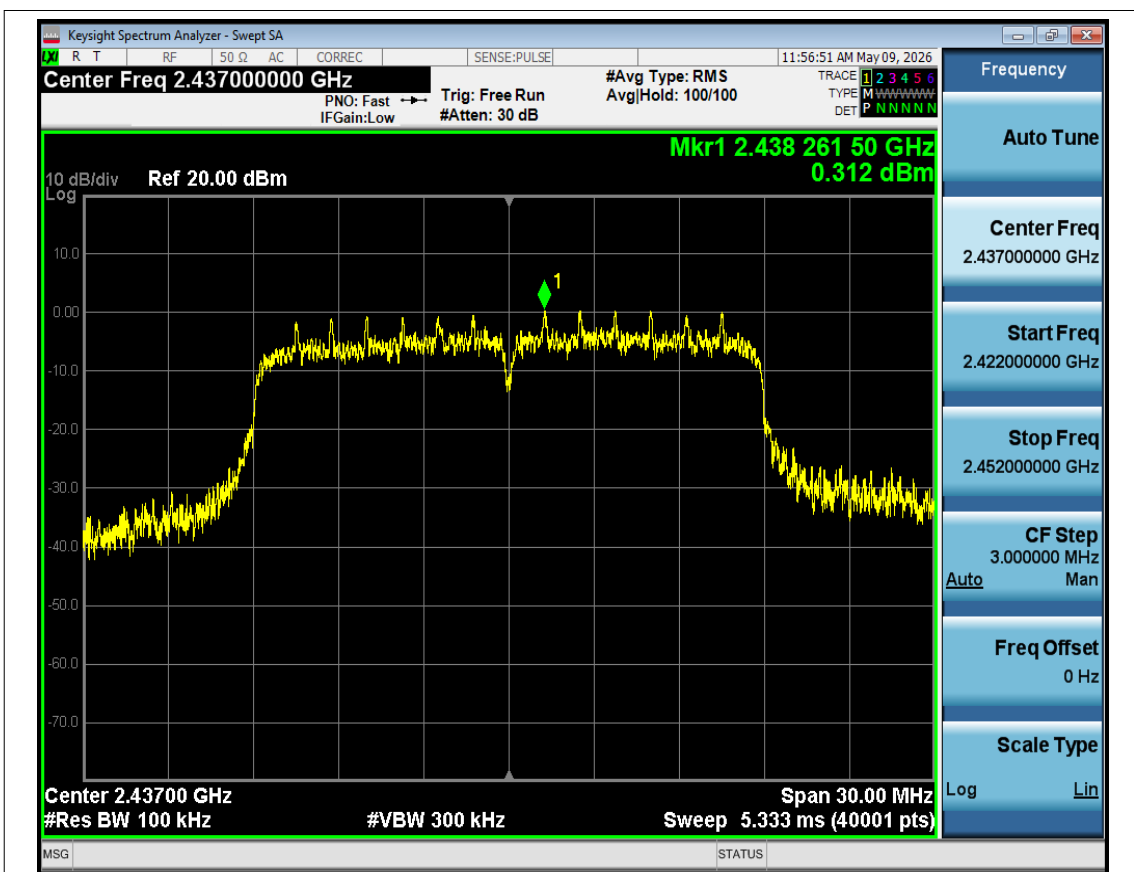
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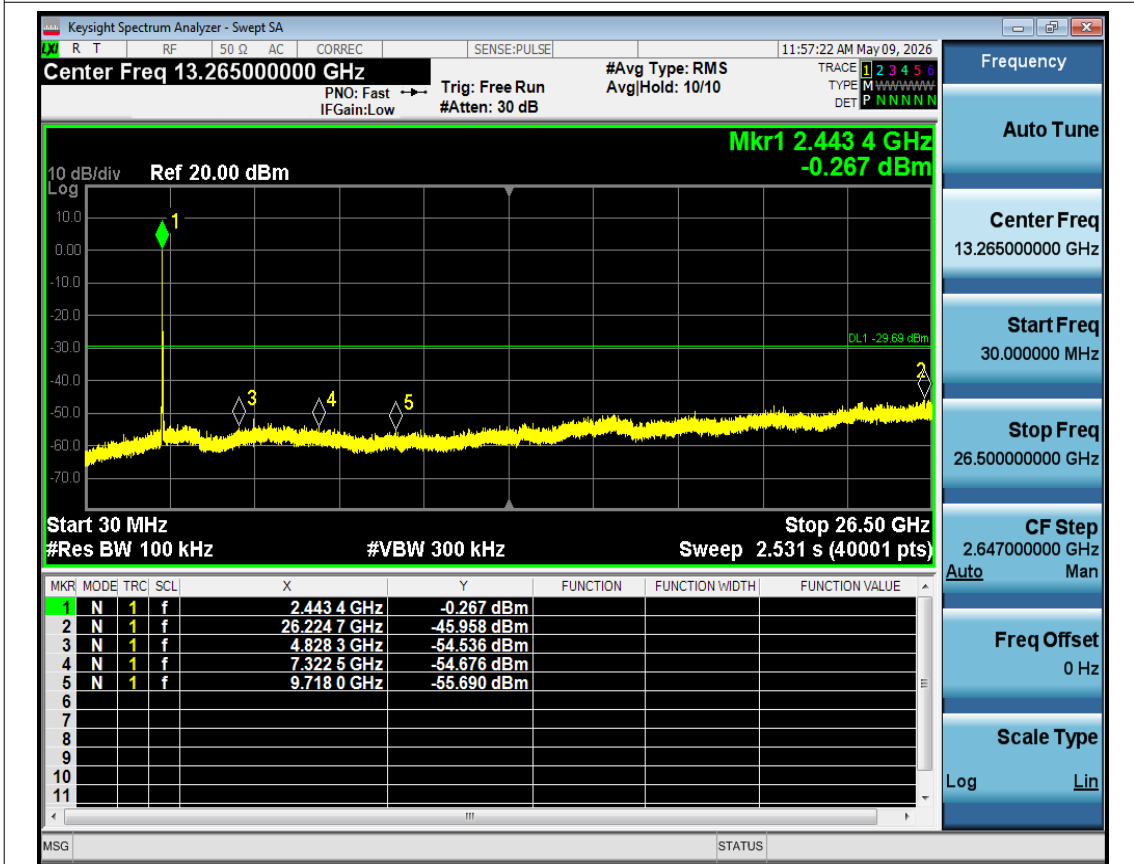
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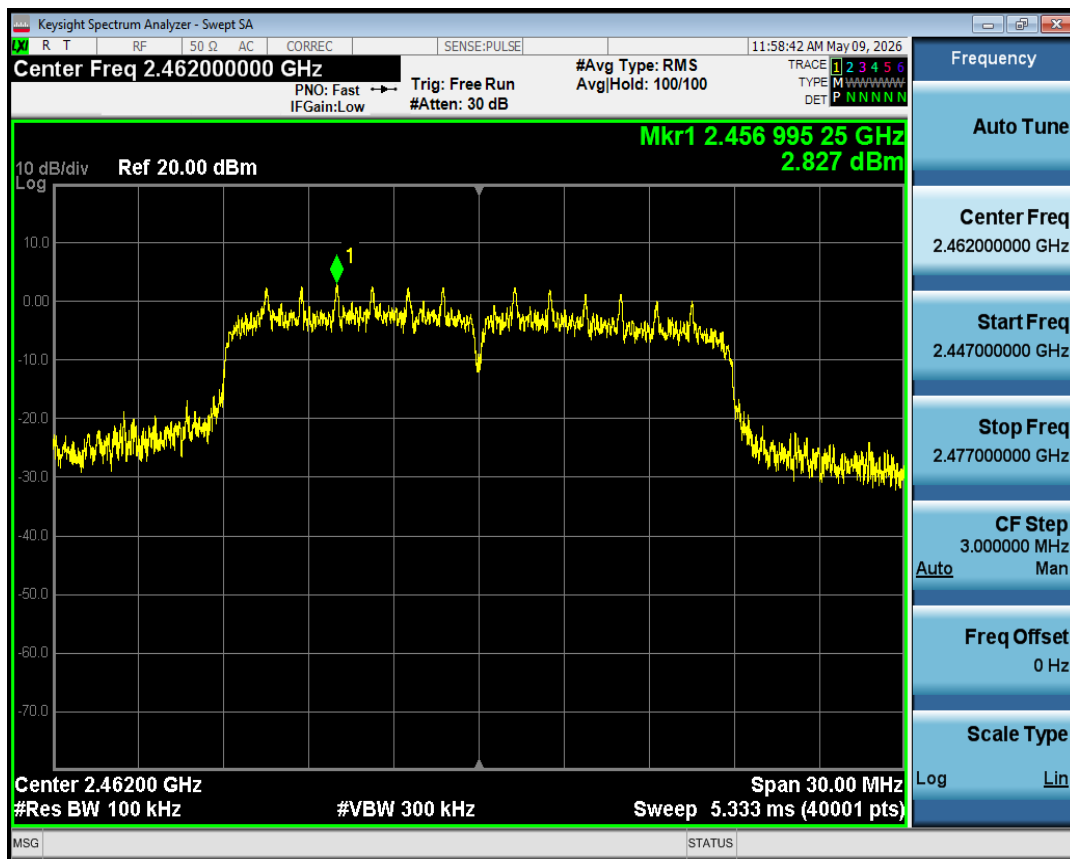
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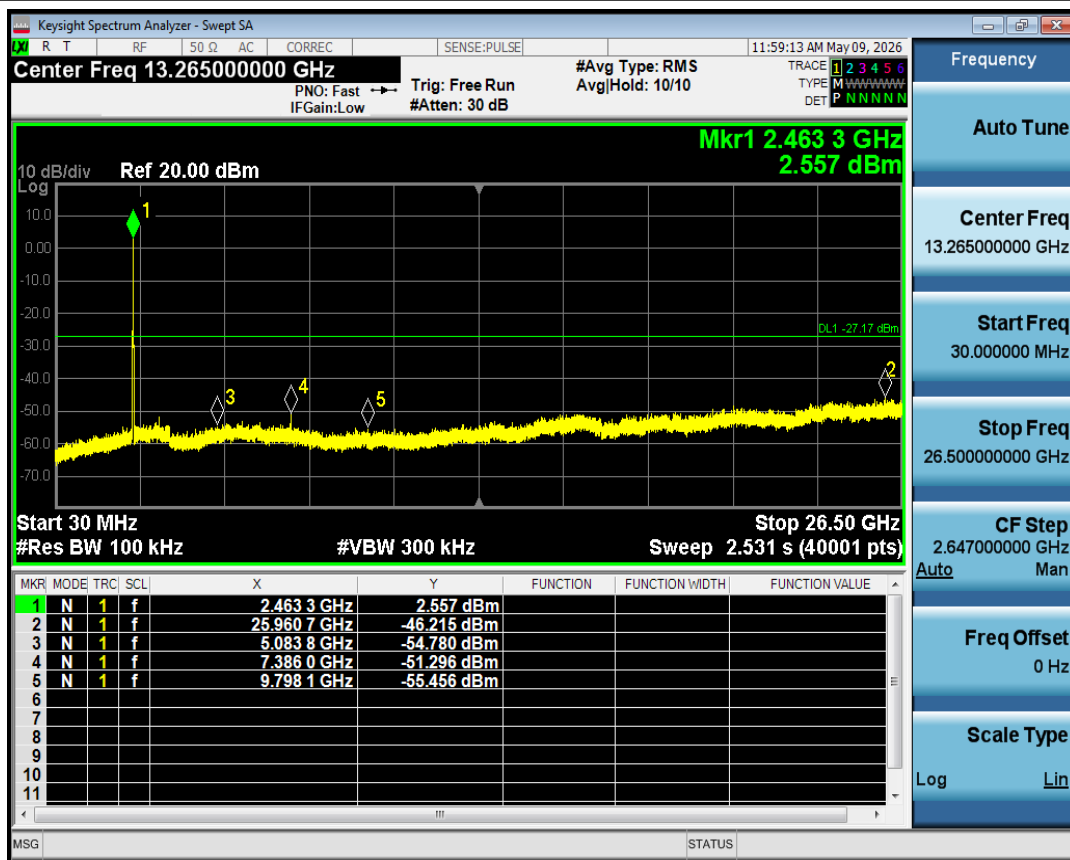
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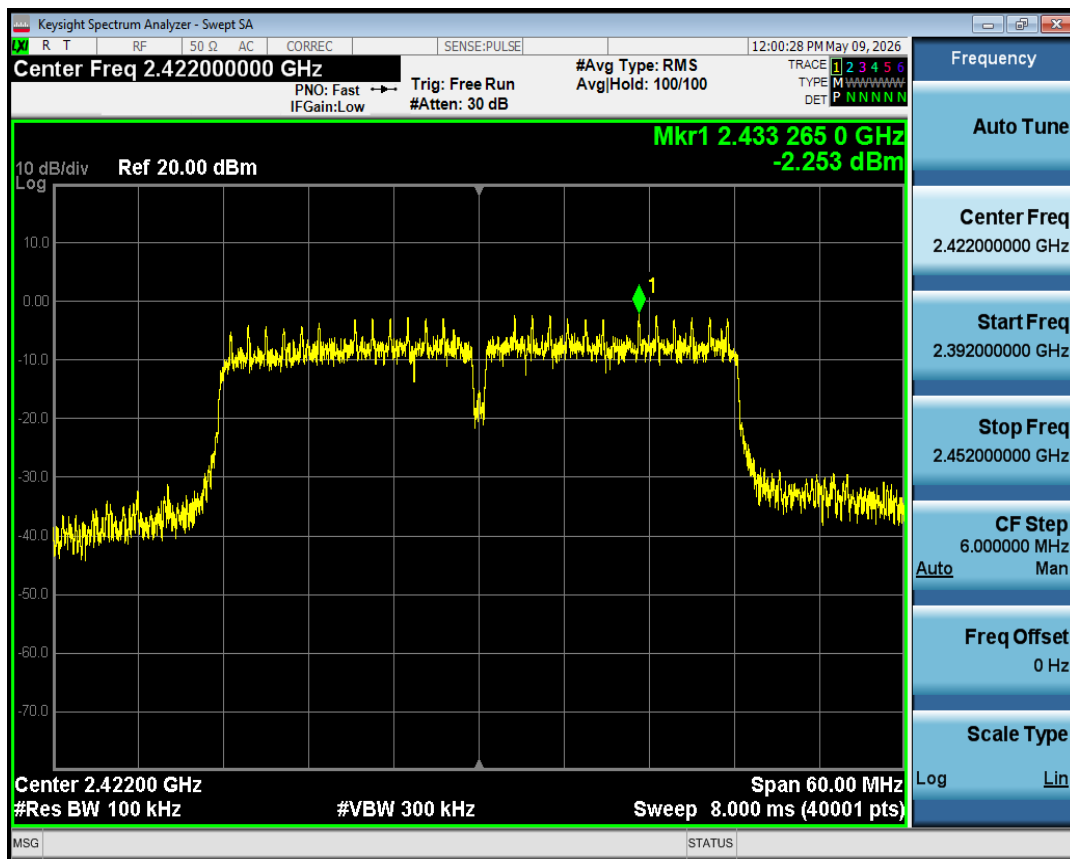
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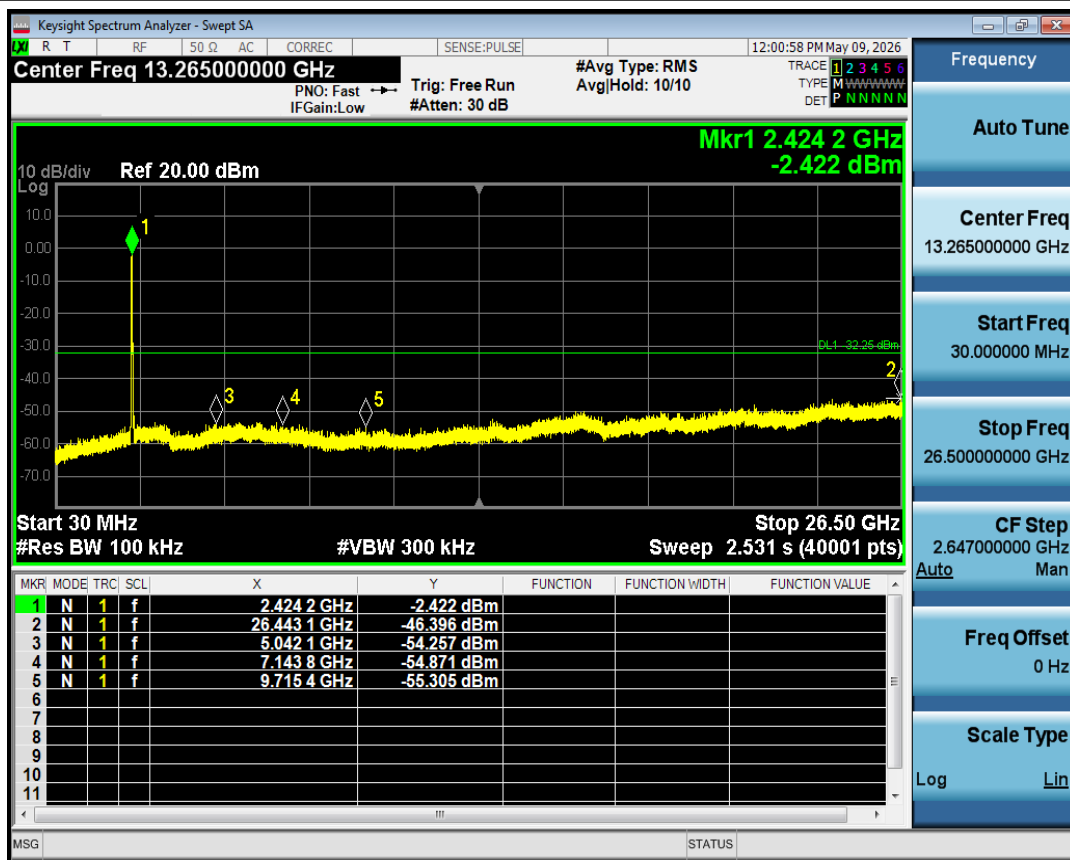
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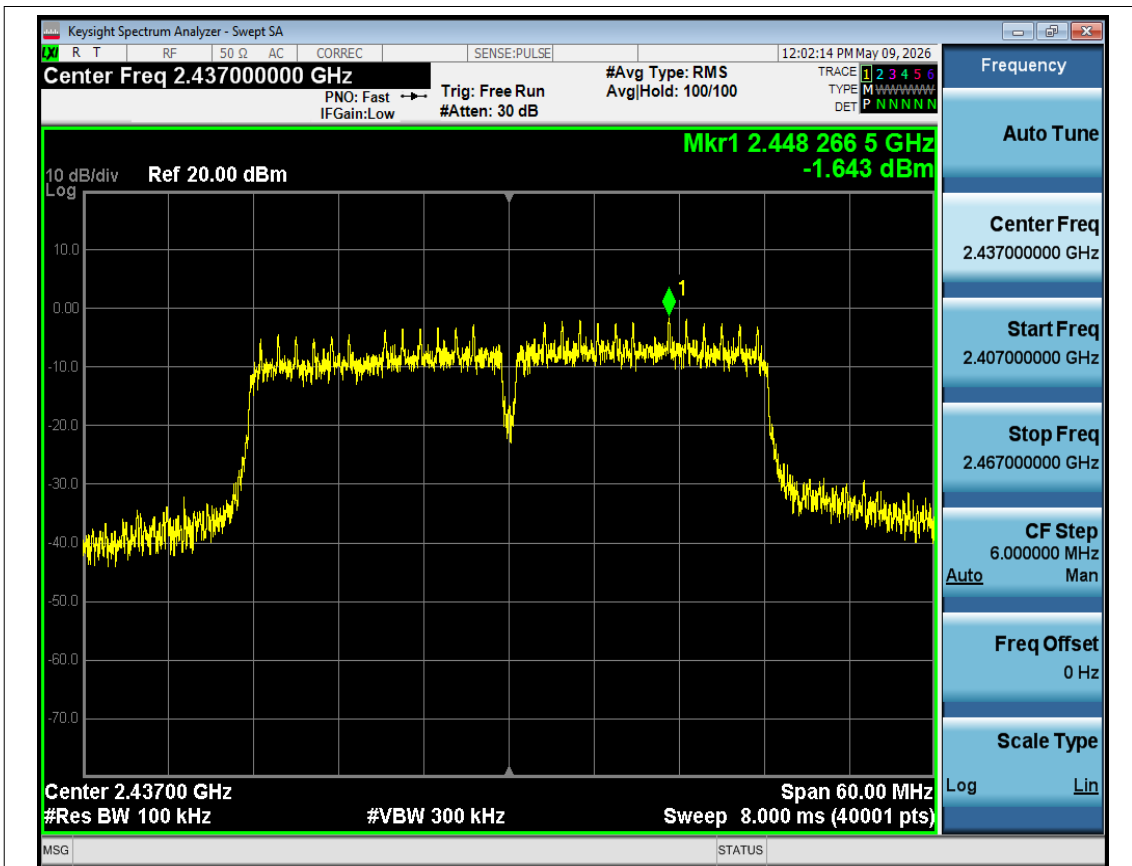
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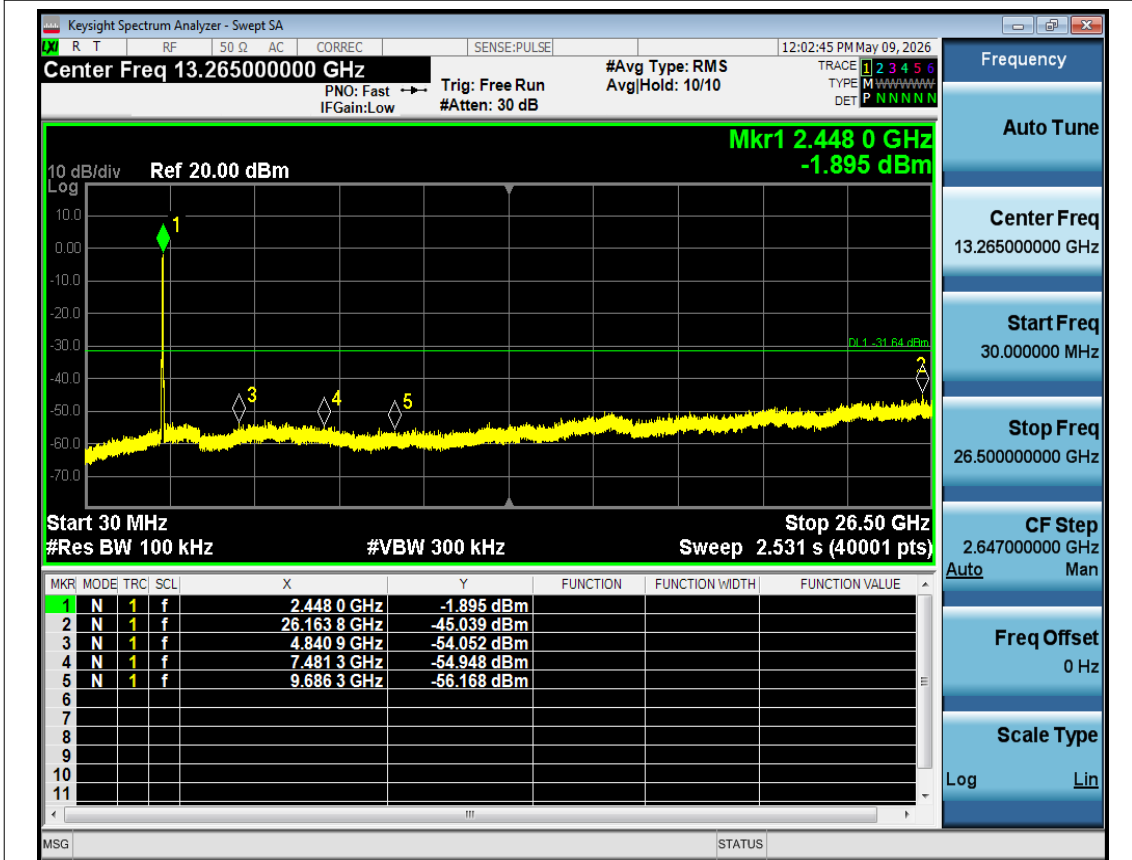
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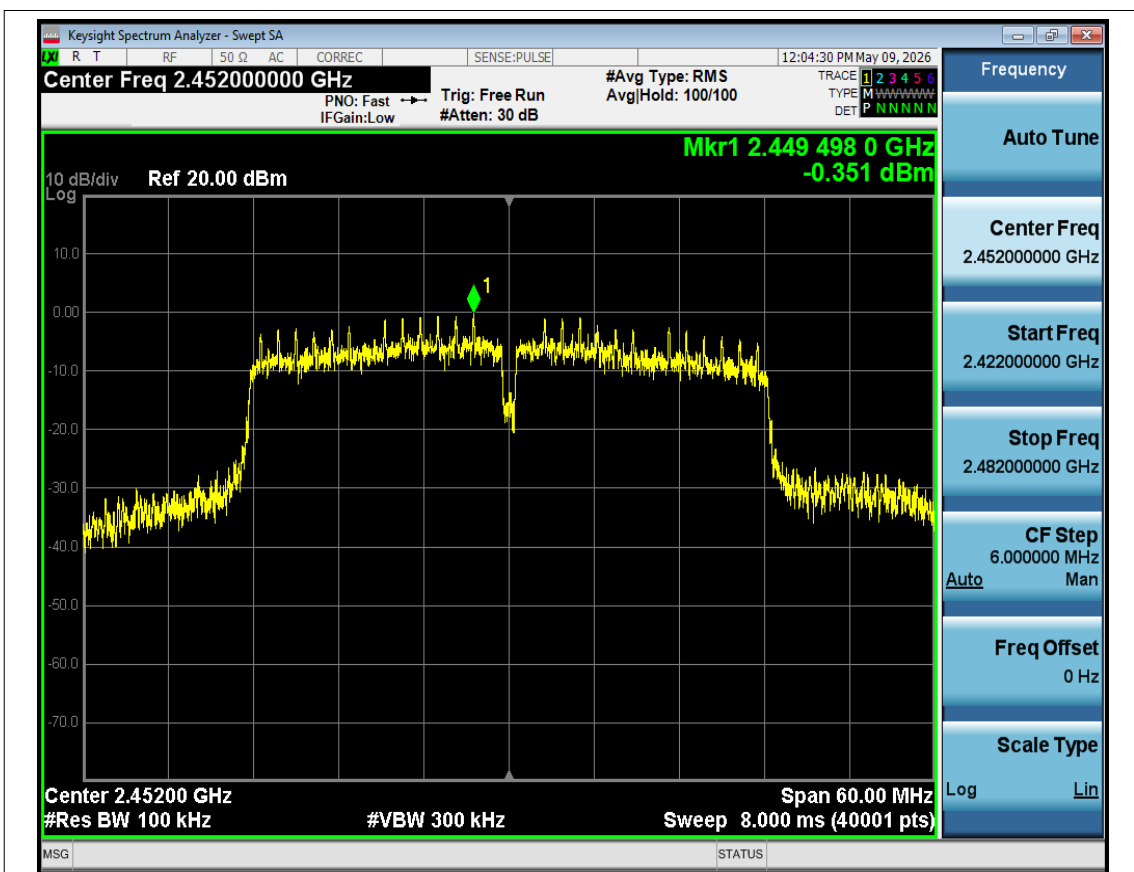
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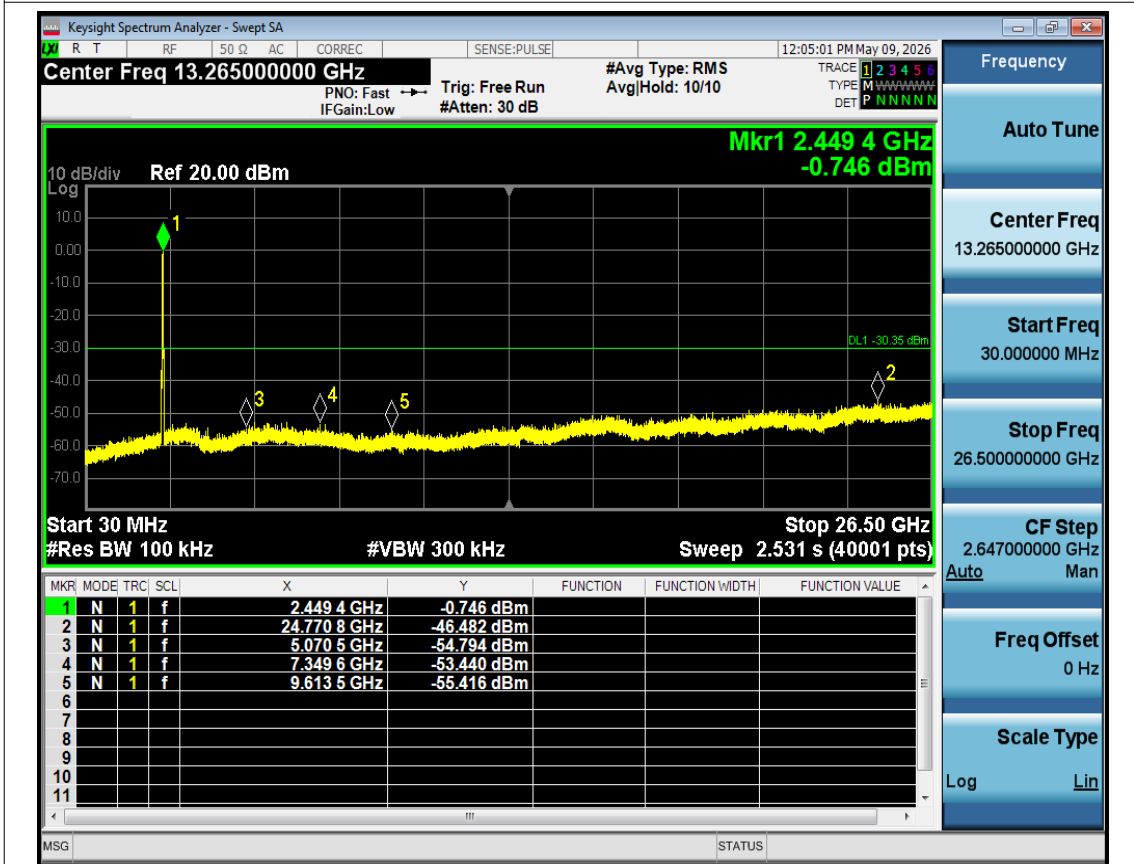
Tx. Spurious NVNT n40 2437MHz Ant1 Ref



Tx. Spurious NVNT n40 2437MHz Ant1 Emission



Tx. Spurious NVNT n40 2452MHz Ant1 Ref



Tx. Spurious NVNT n40 2452MHz Ant1 Emission