

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2AYD7-EB2

Company : igloocompany Pte Ltd.

EUT : Bridge 2

Model Number : EB2

Report No. : CTA26070103002

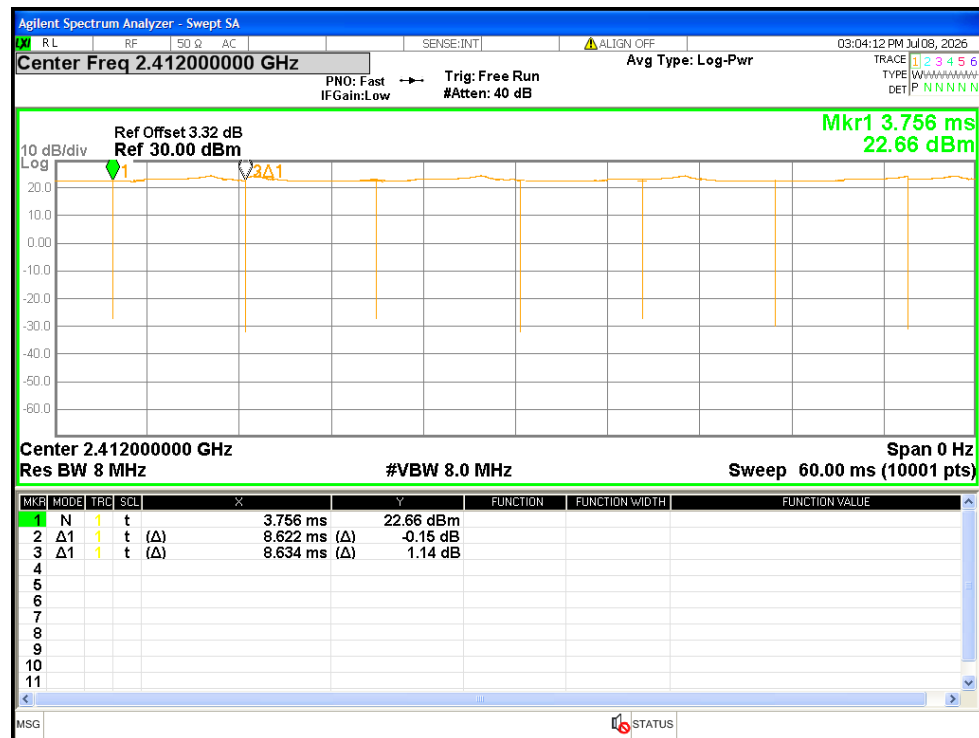
Reviewed By : Eric Wang

Duty Cycle

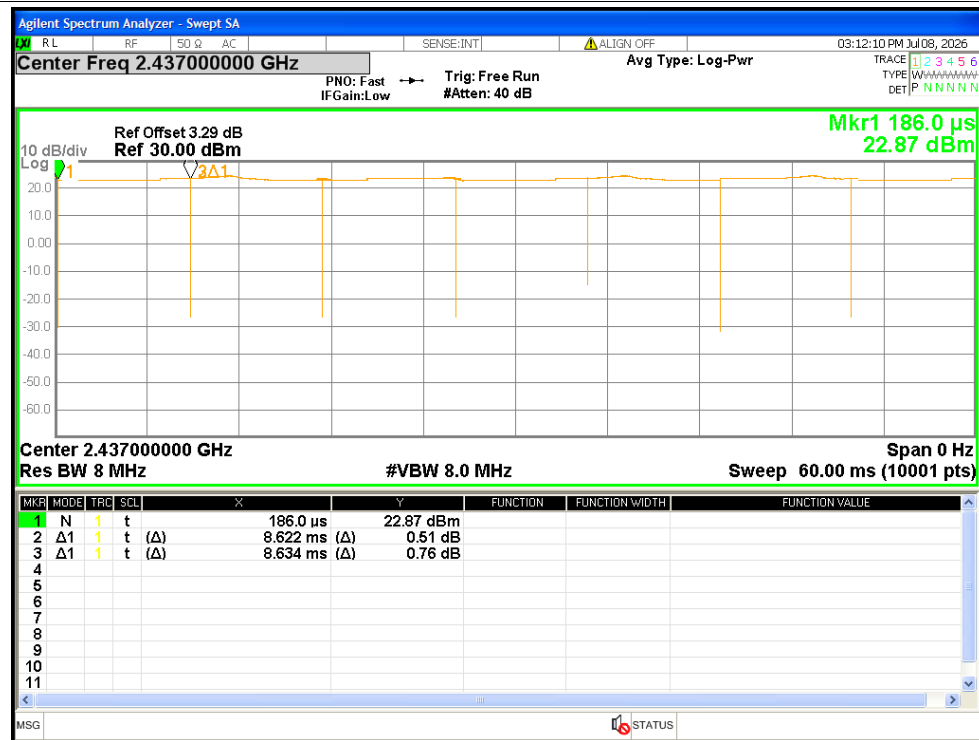
Condition	Mode	Frequency (MHz)	On Time (ms)	Period (ms)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	8.622	8.634	99.86	0.01	0.12
NVNT	b	2437	8.622	8.634	99.86	0.01	0.12
NVNT	b	2462	8.622	8.634	99.86	0.01	0.12
NVNT	g	2412	1.432	1.448	98.9	0.05	0.7
NVNT	g	2437	1.432	1.448	98.9	0.05	0.7
NVNT	g	2462	1.432	1.448	98.9	0.05	0.7
NVNT	n20	2412	1.34	1.356	98.82	0.05	0.75
NVNT	n20	2437	1.34	1.356	98.82	0.05	0.75
NVNT	n20	2462	1.342	1.356	98.97	0.04	0.75
NVNT	ax20	2412	1.044	1.06	98.49	0.07	0.96
NVNT	ax20	2437	1.044	1.06	98.49	0.07	0.96
NVNT	ax20	2462	1.046	1.06	98.68	0.06	0.96

Test Graphs

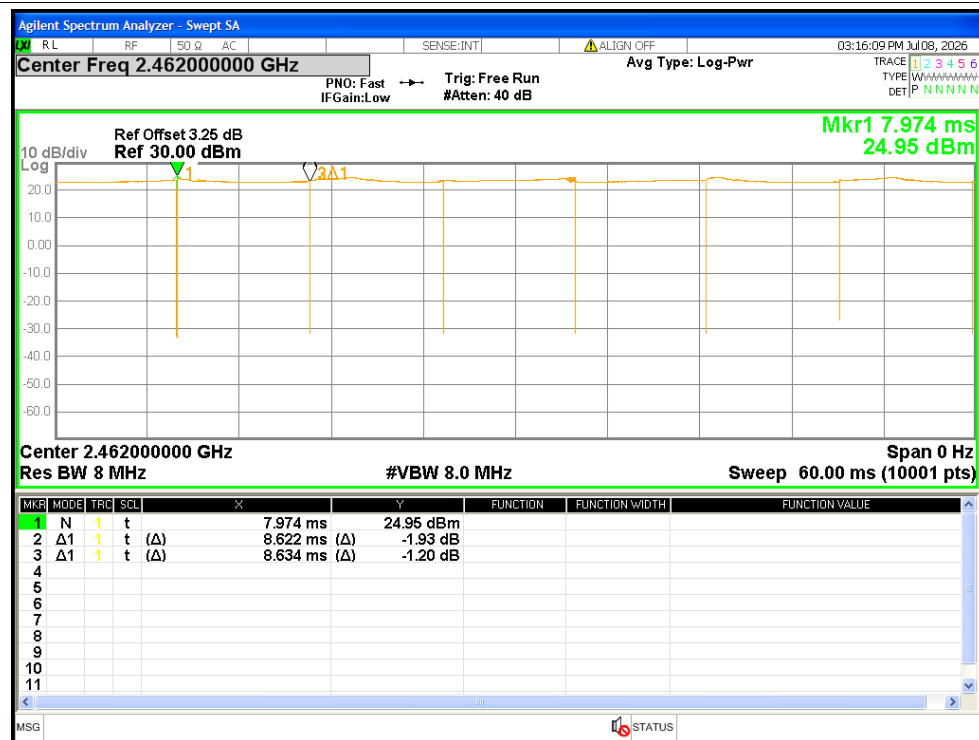
Duty Cycle NVNT b 2412MHz



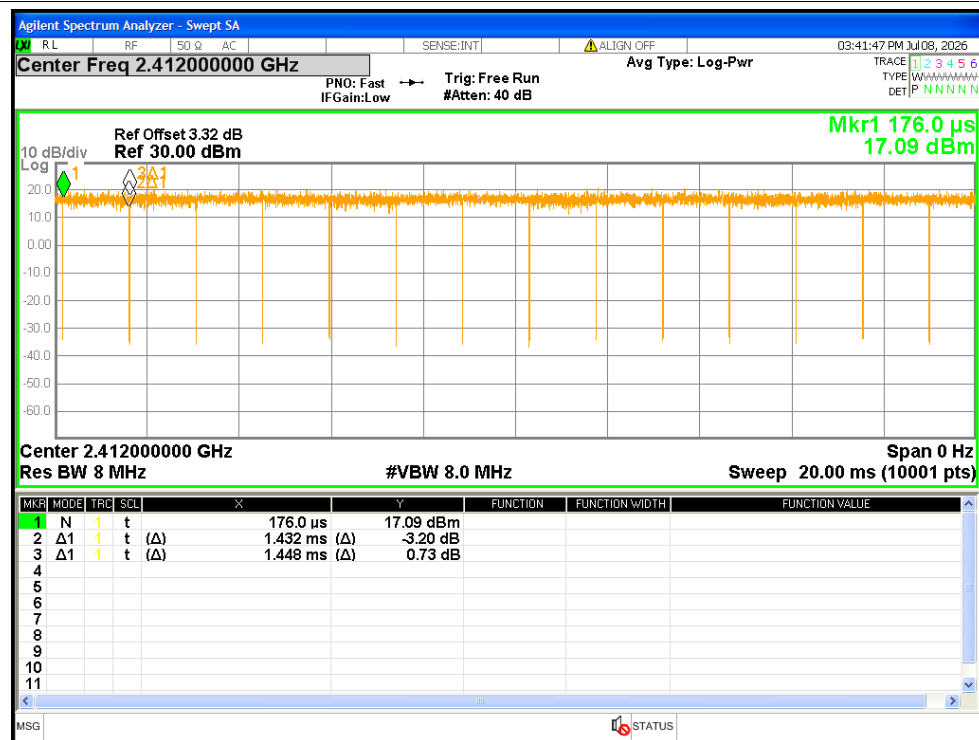
Duty Cycle NVNT b 2437MHz



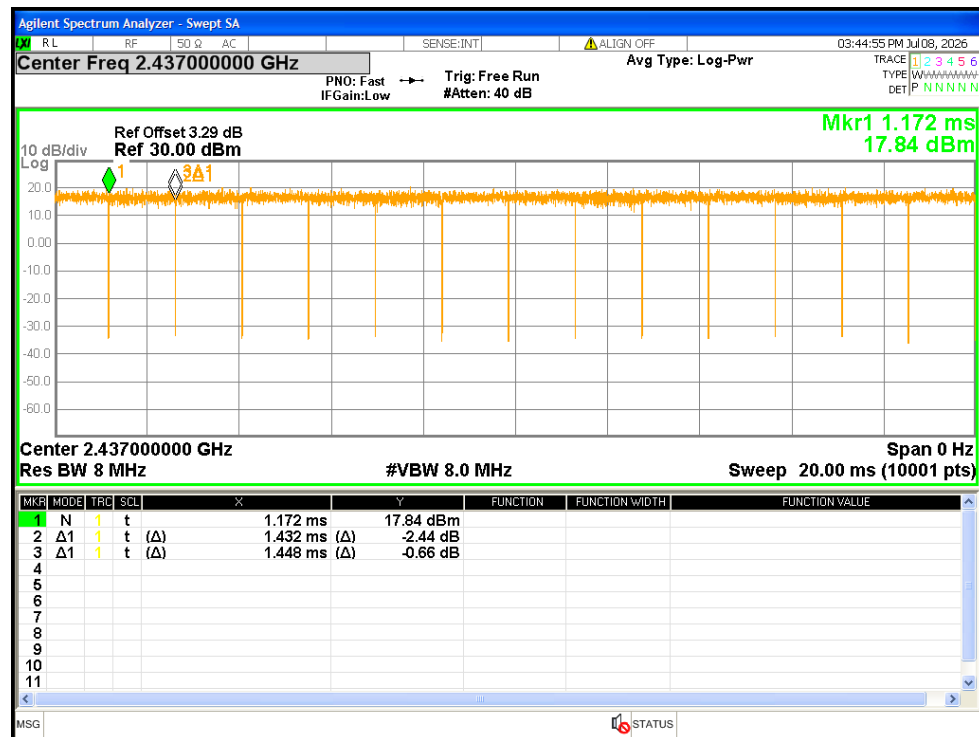
Duty Cycle NVNT b 2462MHz



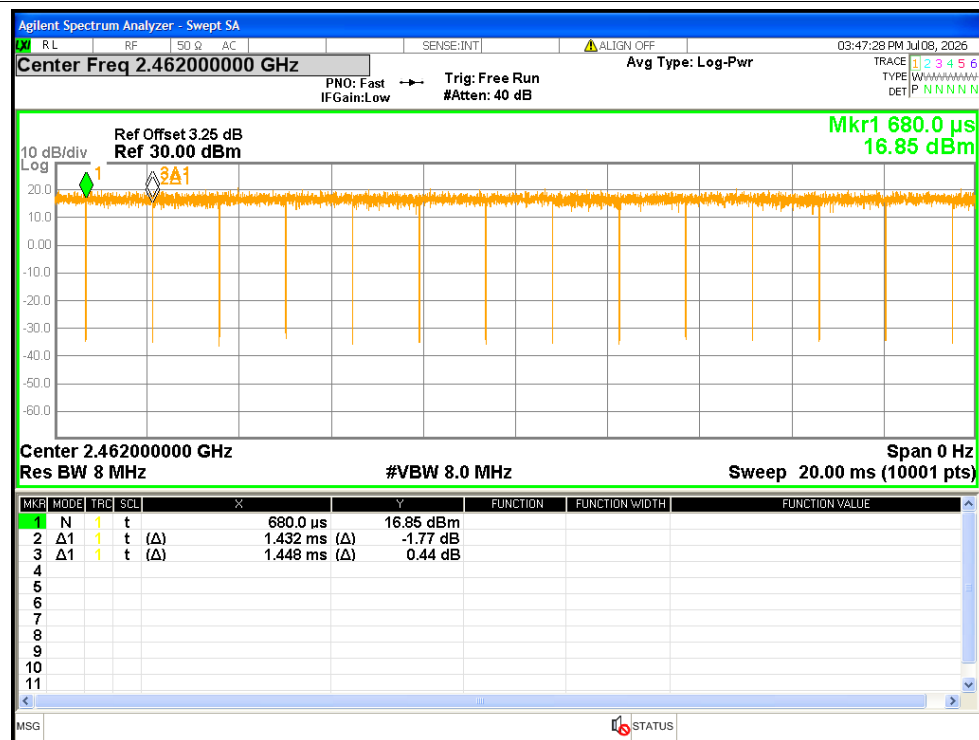
Duty Cycle NVNT g 2412MHz



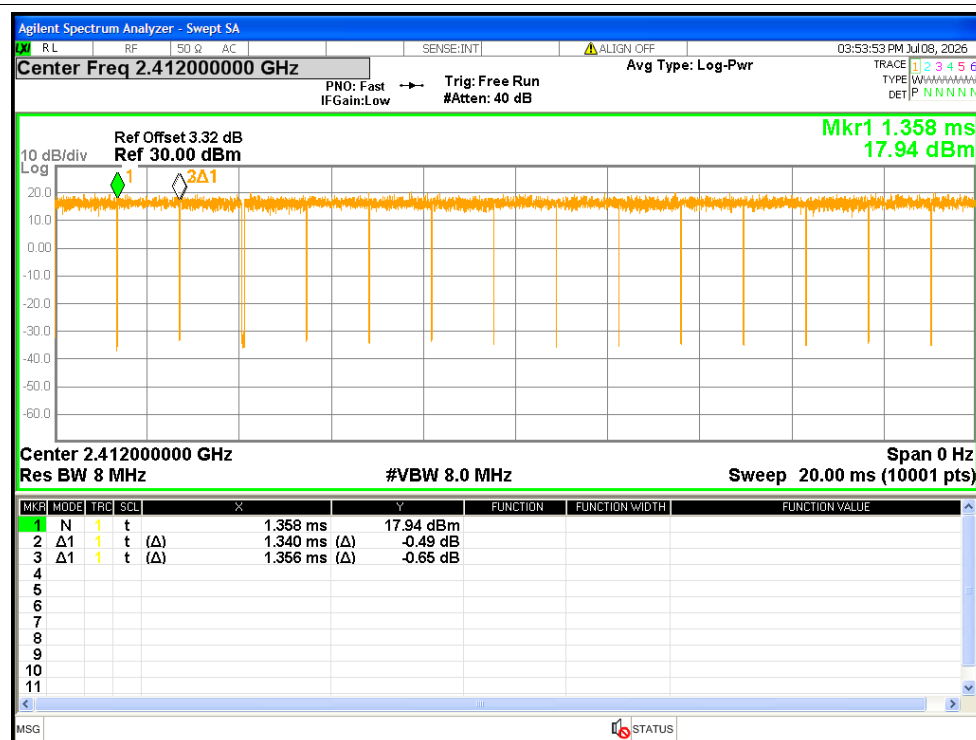
Duty Cycle NVNT g 2437MHz



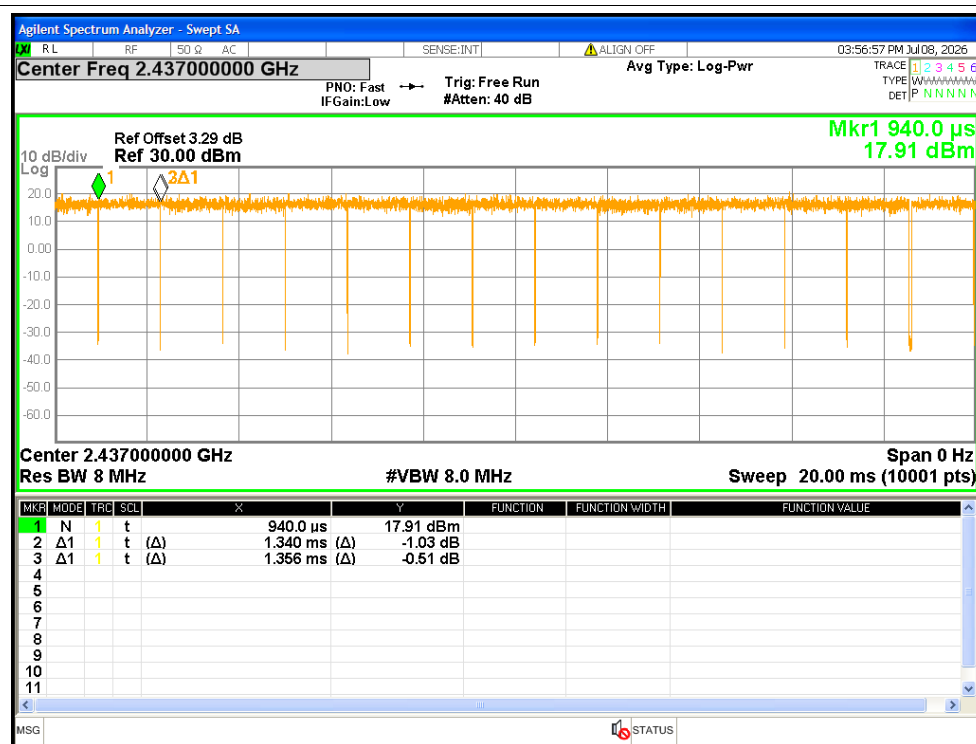
Duty Cycle NVNT g 2462MHz



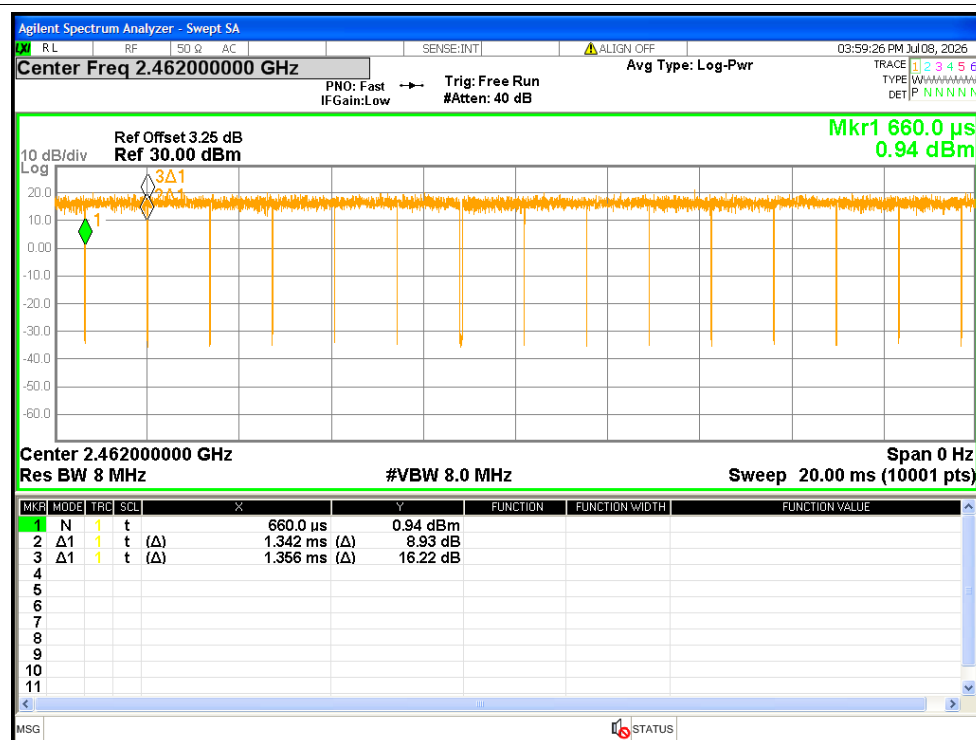
Duty Cycle NVNT n20 2412MHz



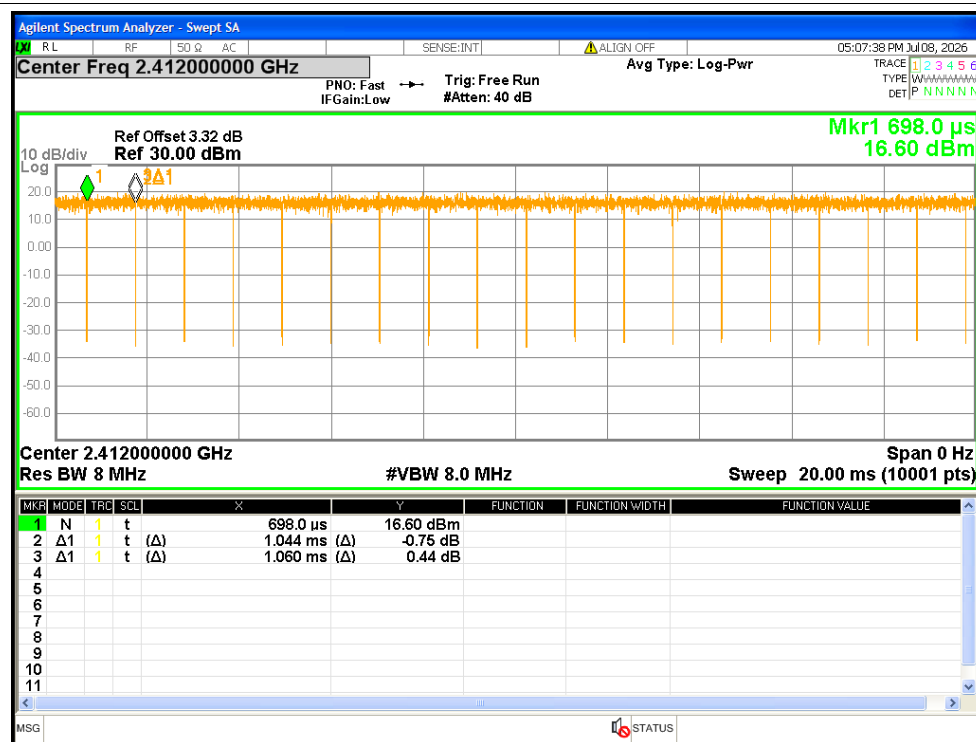
Duty Cycle NVNT n20 2437MHz



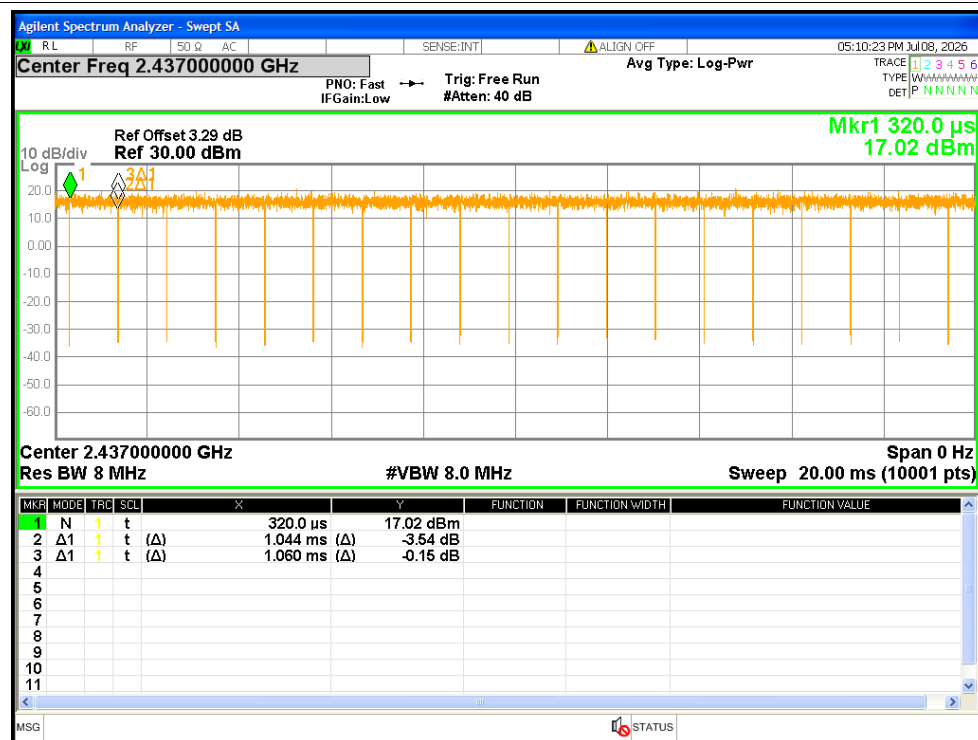
Duty Cycle NVNT n20 2462MHz



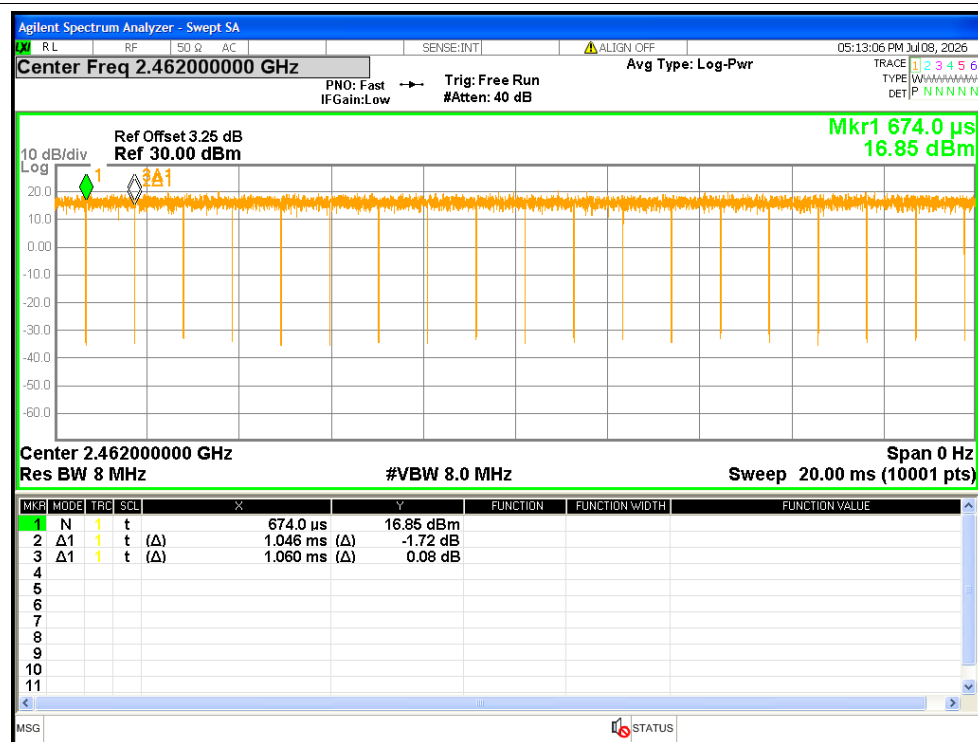
Duty Cycle NVNT ax20 2412MHz



Duty Cycle NVNT ax20 2437MHz



Duty Cycle NVNT ax20 2462MHz



Maximum Peak Conducted Output Power

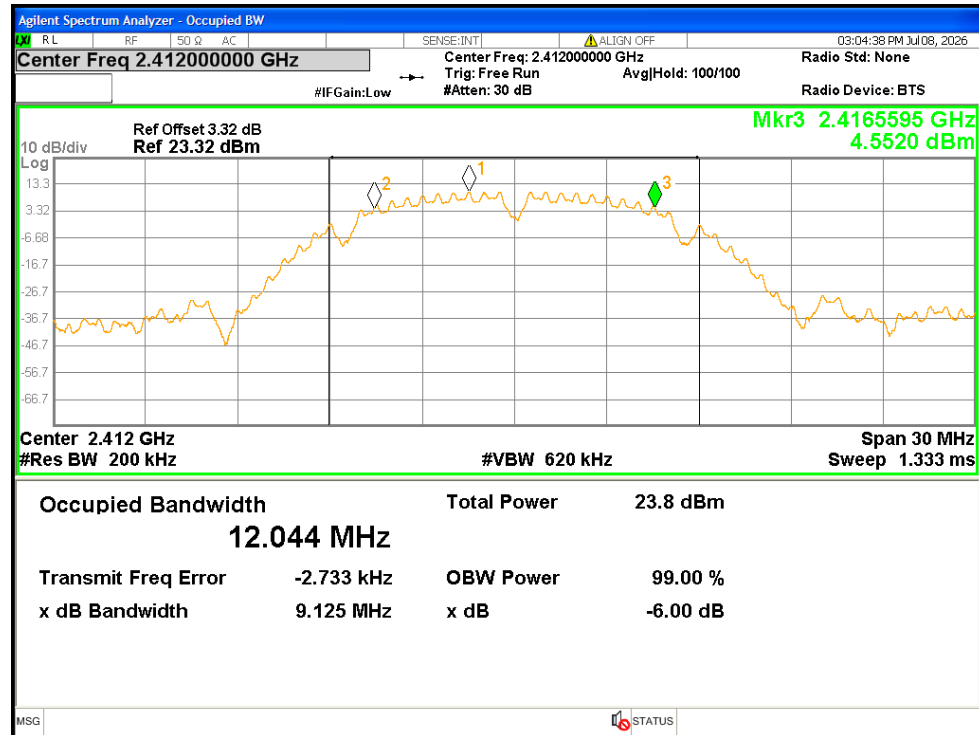
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	24.15	<=30	Pass
NVNT	b	2437	24.28	<=30	Pass
NVNT	b	2462	24.54	<=30	Pass
NVNT	g	2412	20.86	<=30	Pass
NVNT	g	2437	20.68	<=30	Pass
NVNT	g	2462	20.89	<=30	Pass
NVNT	n20	2412	21.41	<=30	Pass
NVNT	n20	2437	20.77	<=30	Pass
NVNT	n20	2462	21.04	<=30	Pass
NVNT	ax20	2412	22.15	<=30	Pass
NVNT	ax20	2437	22.53	<=30	Pass
NVNT	ax20	2462	21.63	<=30	Pass

-6dB Bandwidth

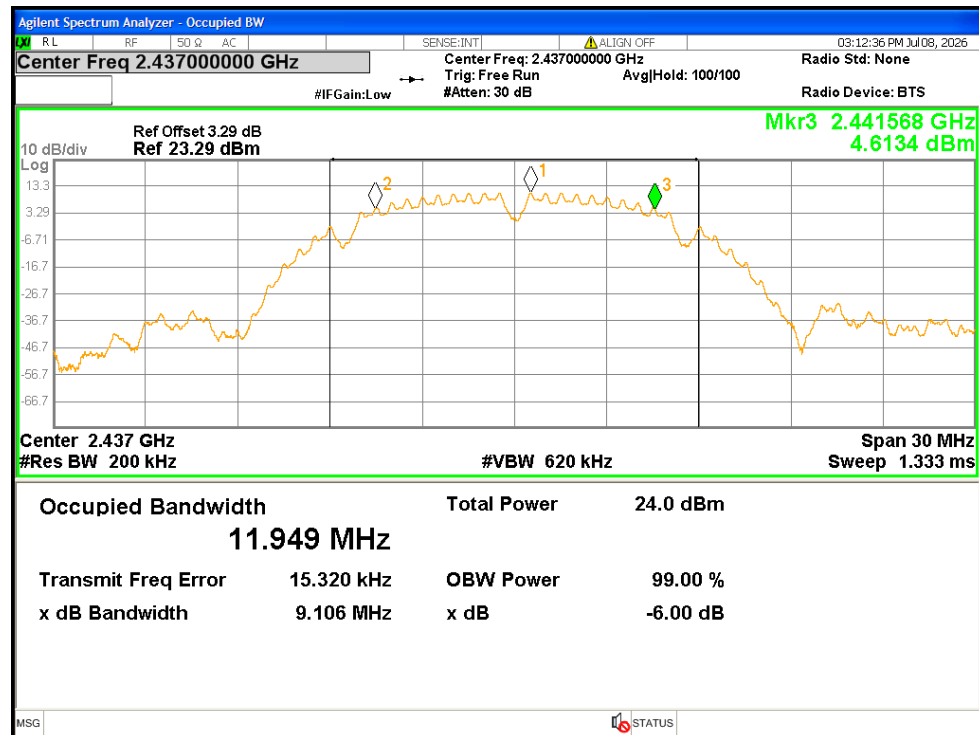
Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	9.125	≥ 0.5	Pass
NVNT	b	2437	9.106	≥ 0.5	Pass
NVNT	b	2462	9.103	≥ 0.5	Pass
NVNT	g	2412	16.37	≥ 0.5	Pass
NVNT	g	2437	16.35	≥ 0.5	Pass
NVNT	g	2462	16.34	≥ 0.5	Pass
NVNT	n20	2412	17.49	≥ 0.5	Pass
NVNT	n20	2437	17.08	≥ 0.5	Pass
NVNT	n20	2462	17.47	≥ 0.5	Pass
NVNT	ax20	2412	18.88	≥ 0.5	Pass
NVNT	ax20	2437	18.76	≥ 0.5	Pass
NVNT	ax20	2462	18.95	≥ 0.5	Pass

Test Graphs

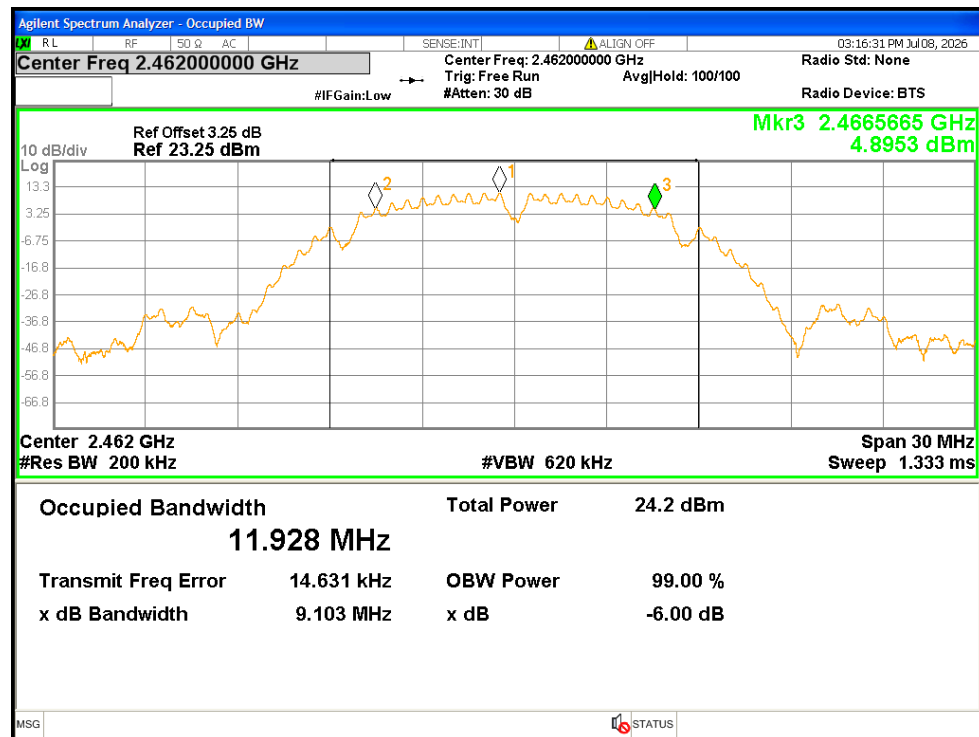
-6dB Bandwidth NVNT b 2412MHz



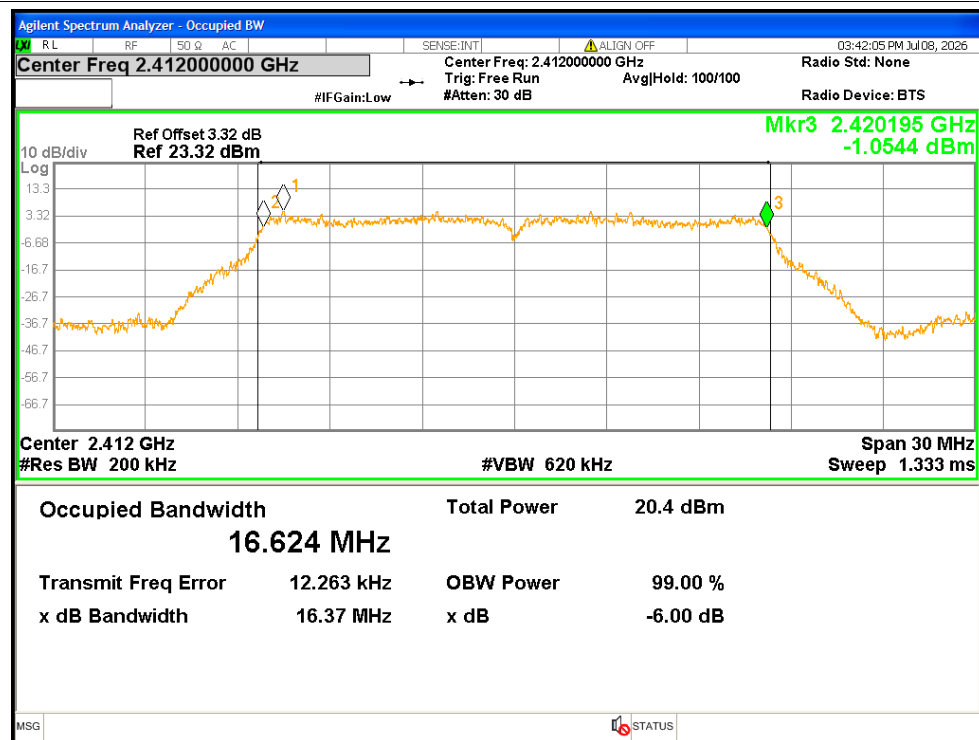
-6dB Bandwidth NVNT b 2437MHz



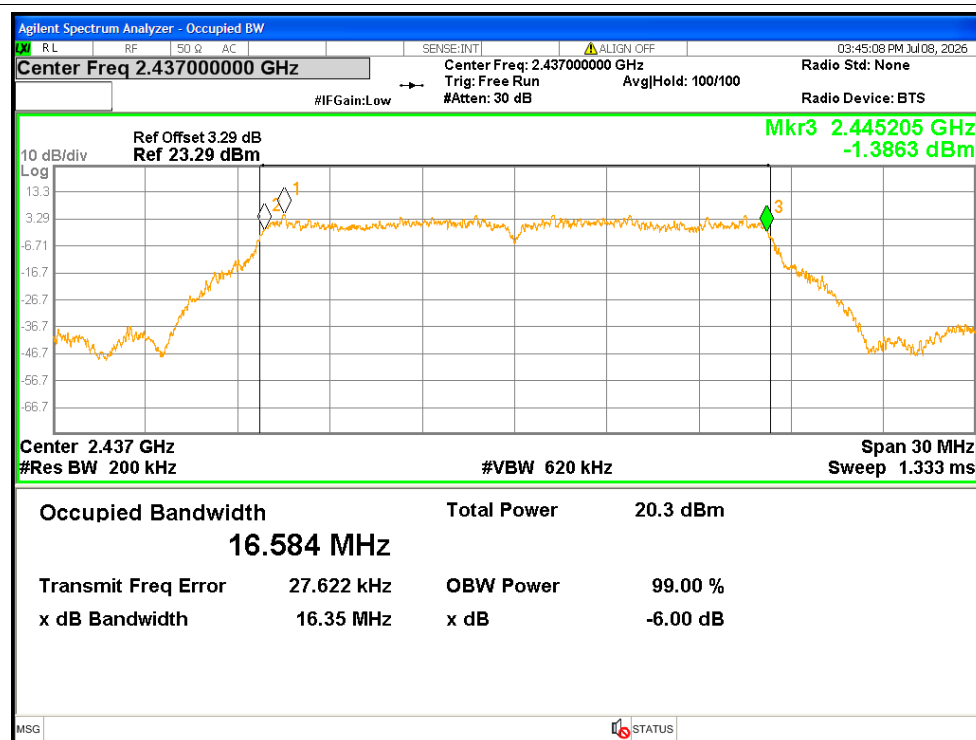
-6dB Bandwidth NVNT b 2462MHz



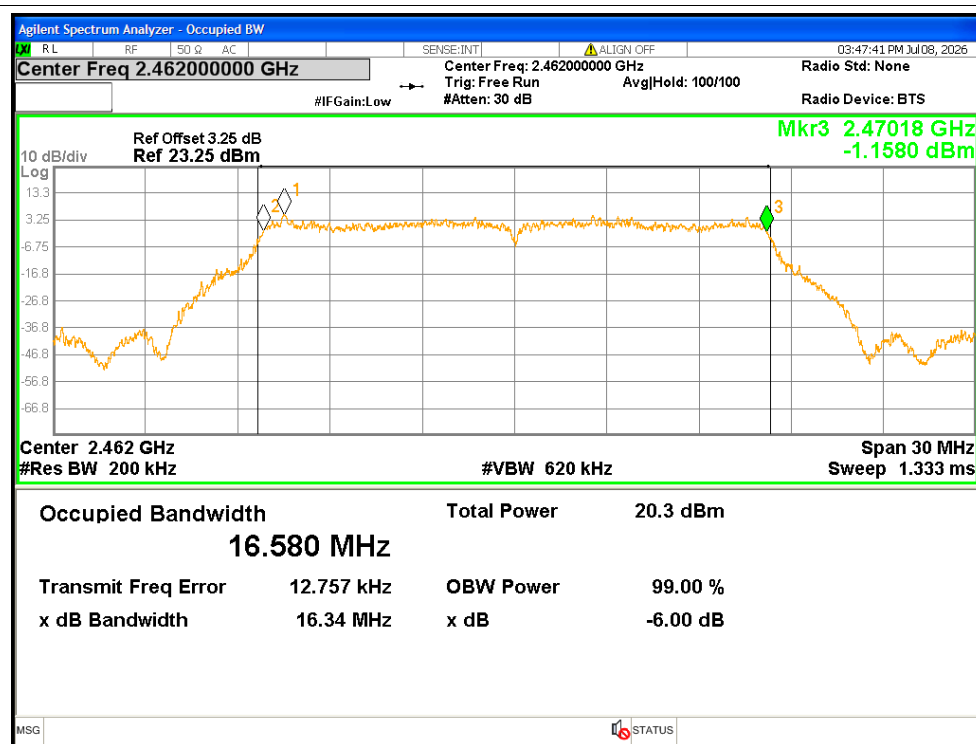
-6dB Bandwidth NVNT g 2412MHz



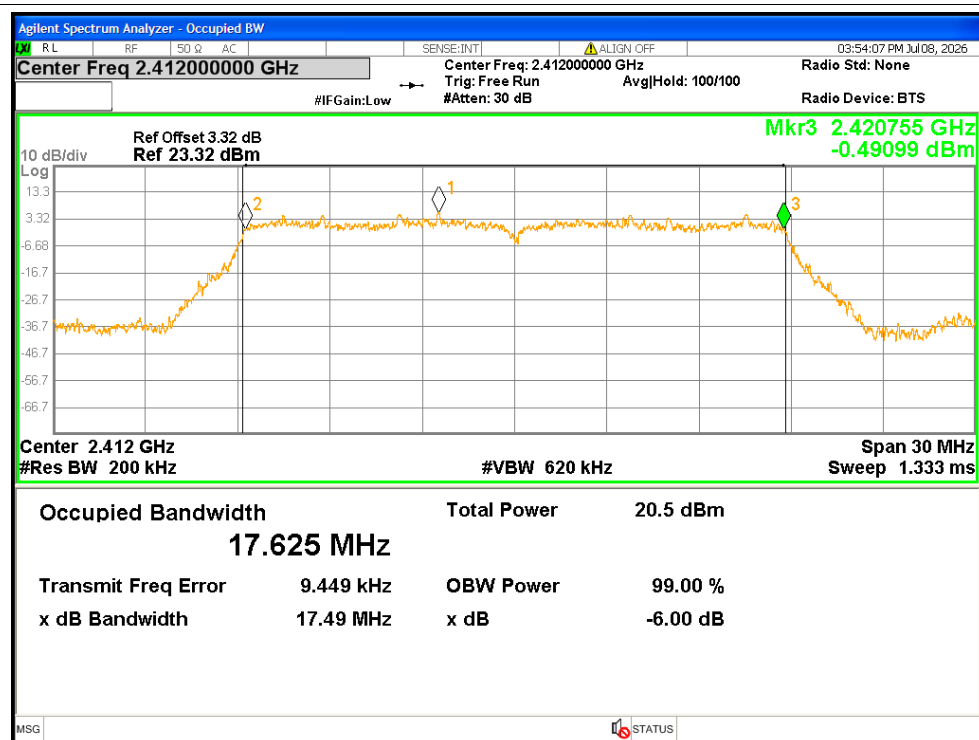
-6dB Bandwidth NVNT g 2437MHz



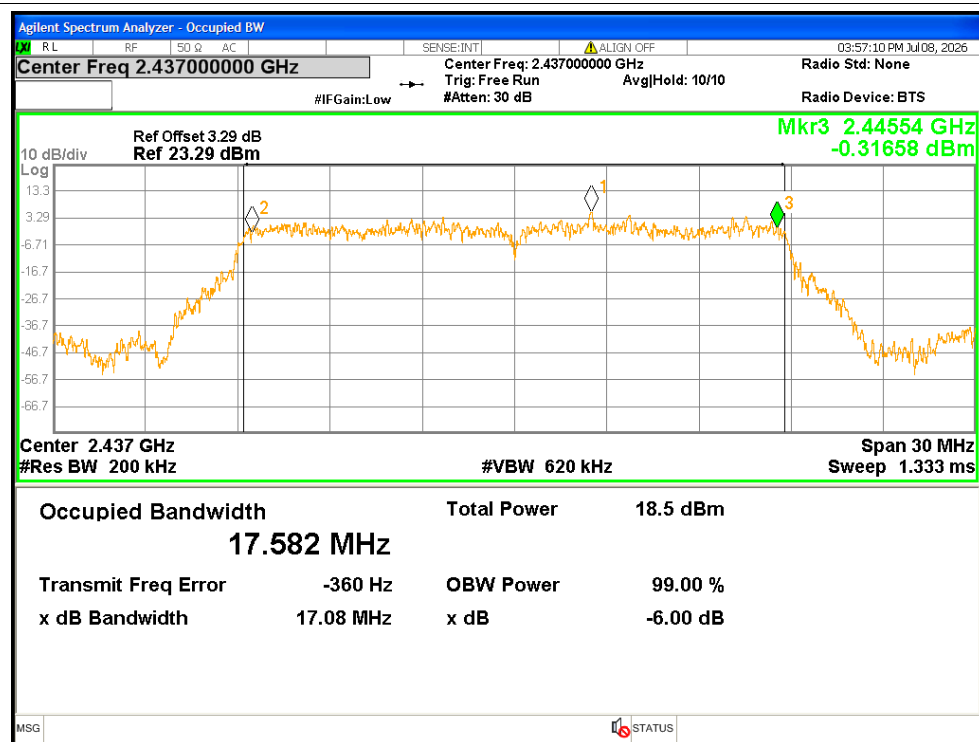
-6dB Bandwidth NVNT g 2462MHz



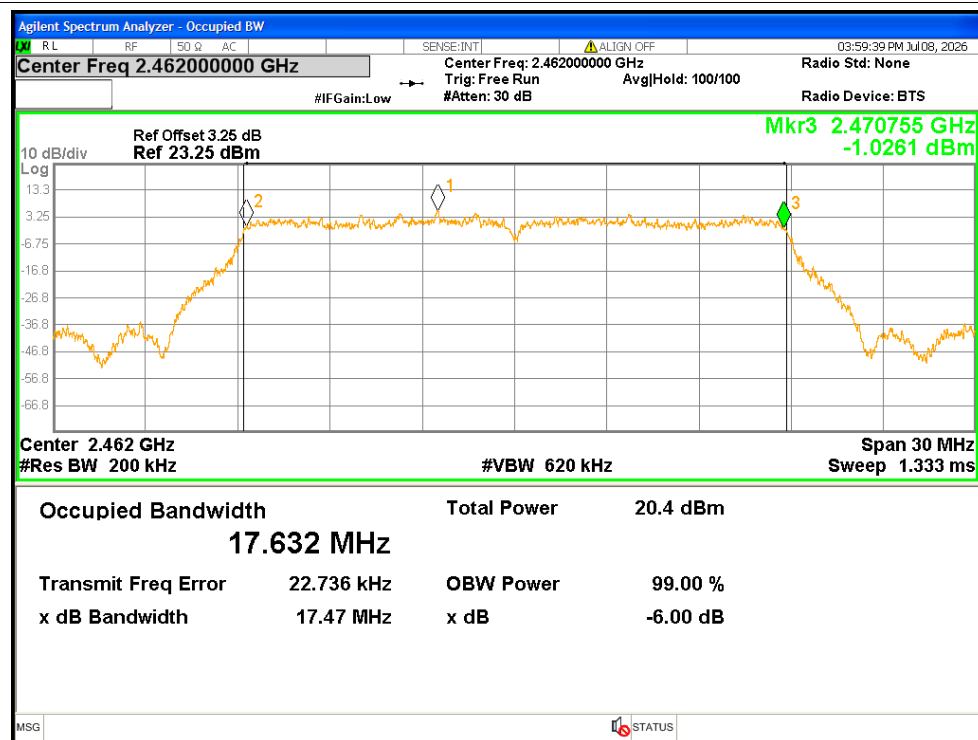
-6dB Bandwidth NVNT n20 2412MHz



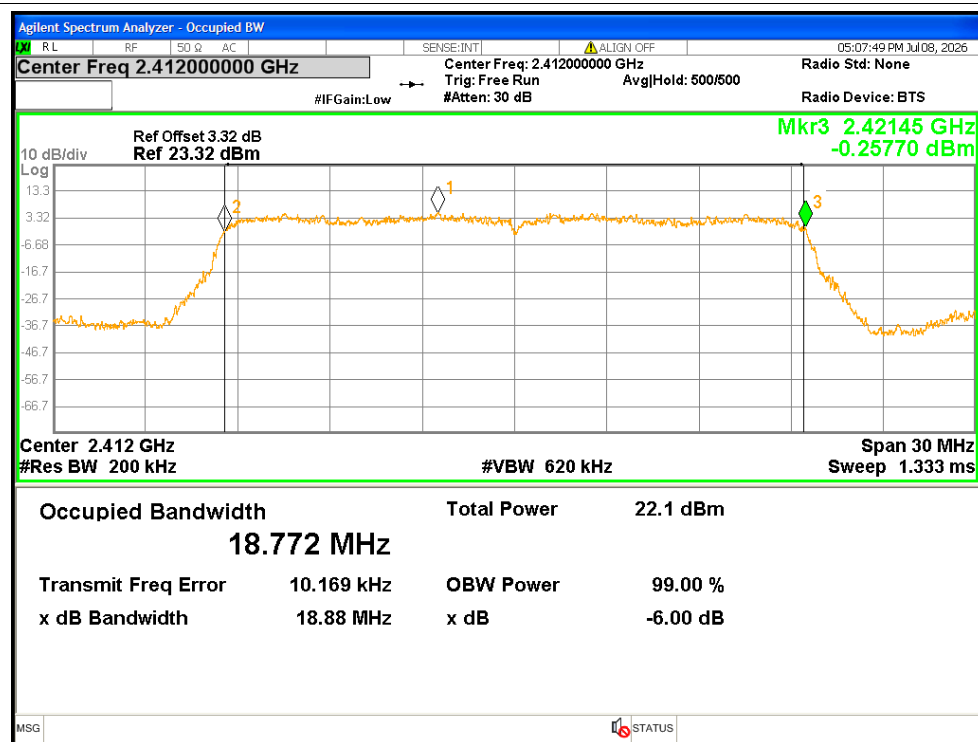
-6dB Bandwidth NVNT n20 2437MHz



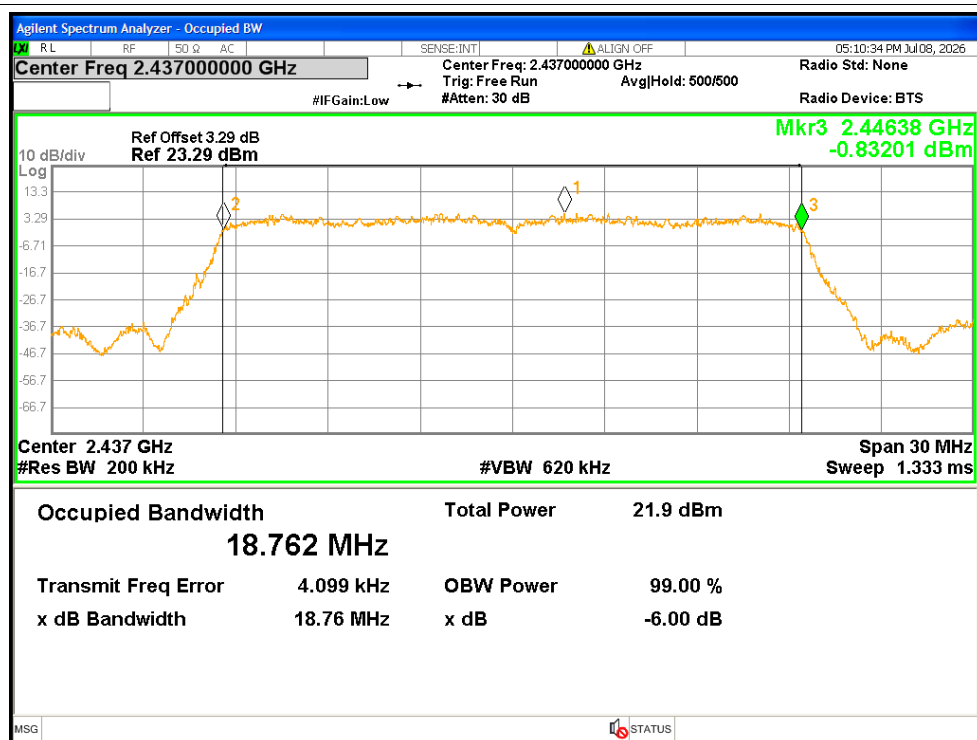
-6dB Bandwidth NVNT n20 2462MHz



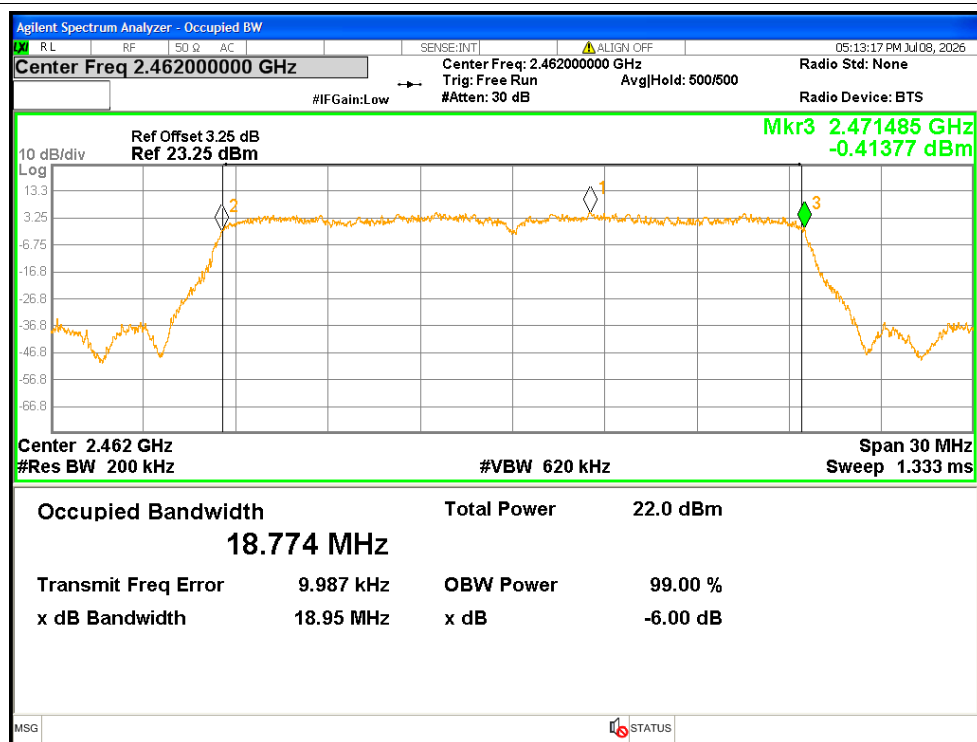
-6dB Bandwidth NVNT ax20 2412MHz



-6dB Bandwidth NVNT ax20 2437MHz



-6dB Bandwidth NVNT ax20 2462MHz

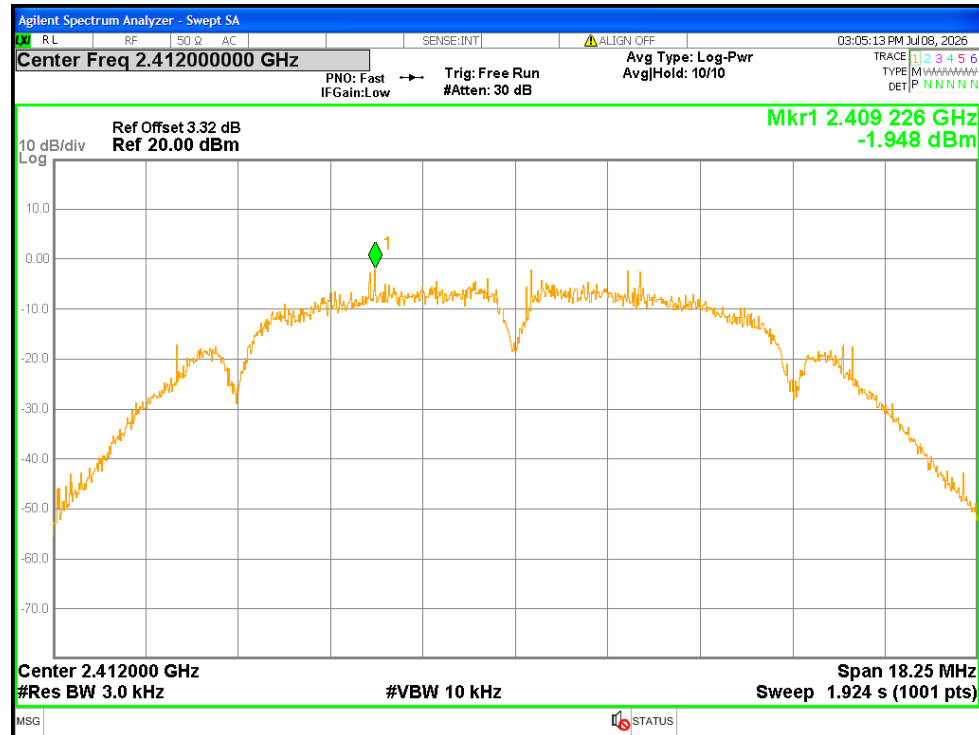


Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	-1.95	<=8	Pass
NVNT	b	2437	0.48	<=8	Pass
NVNT	b	2462	0.06	<=8	Pass
NVNT	g	2412	-11.42	<=8	Pass
NVNT	g	2437	-10.99	<=8	Pass
NVNT	g	2462	-10.98	<=8	Pass
NVNT	n20	2412	-10.77	<=8	Pass
NVNT	n20	2437	-10.81	<=8	Pass
NVNT	n20	2462	-9.16	<=8	Pass
NVNT	ax20	2412	-11.98	<=8	Pass
NVNT	ax20	2437	-11.72	<=8	Pass
NVNT	ax20	2462	-11.56	<=8	Pass

Test Graphs

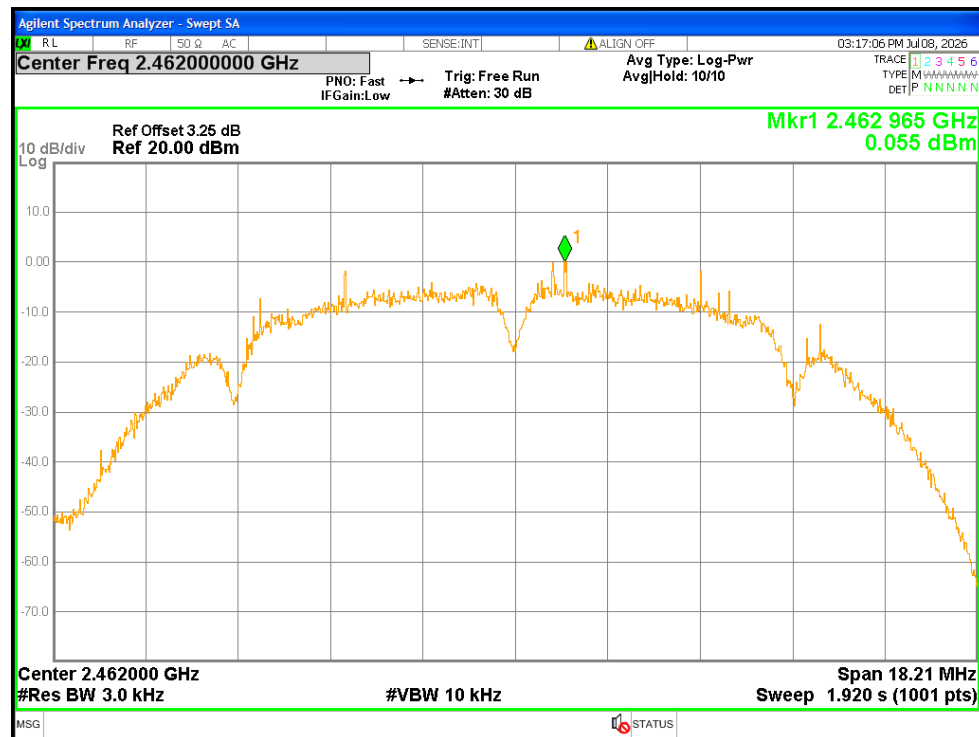
PSD NVNT b 2412MHz



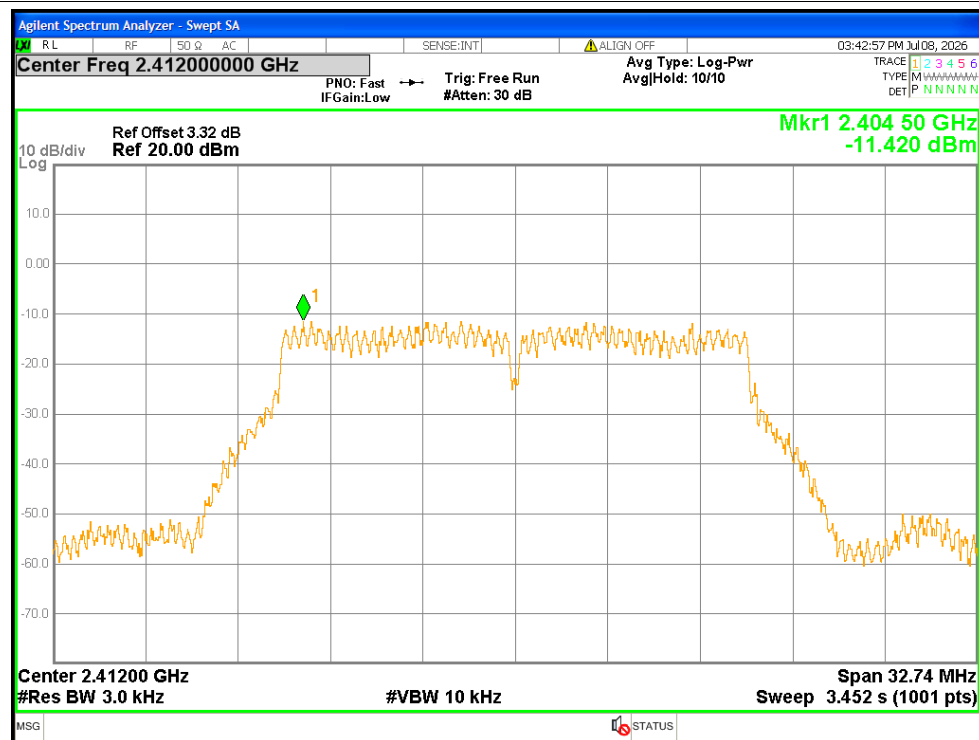
PSD NVNT b 2437MHz



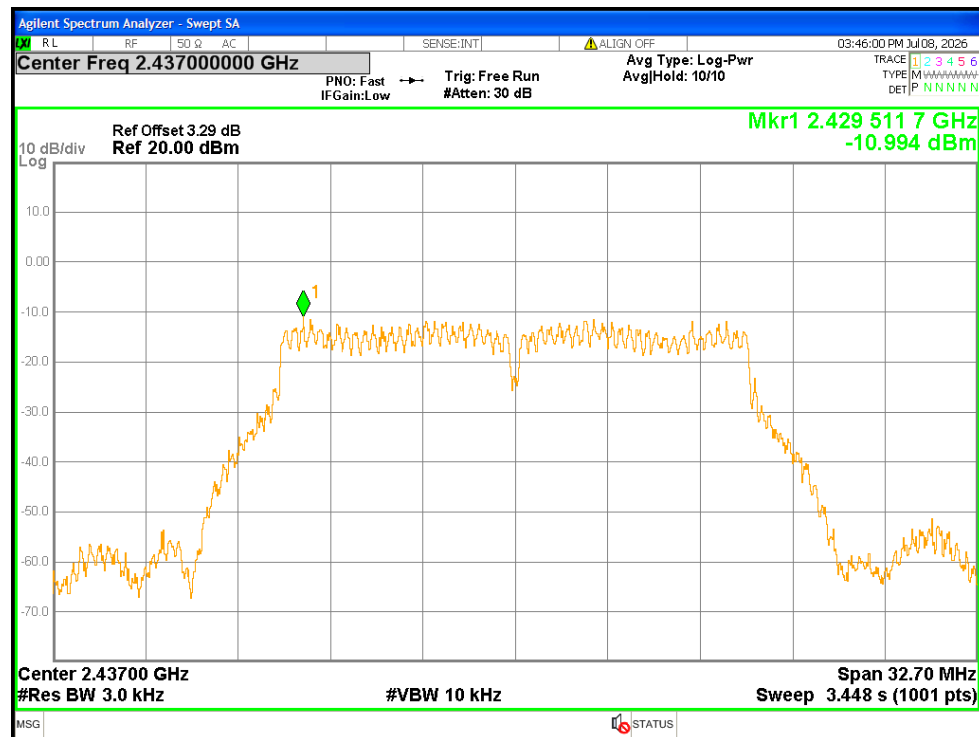
PSD NVNT b 2462MHz



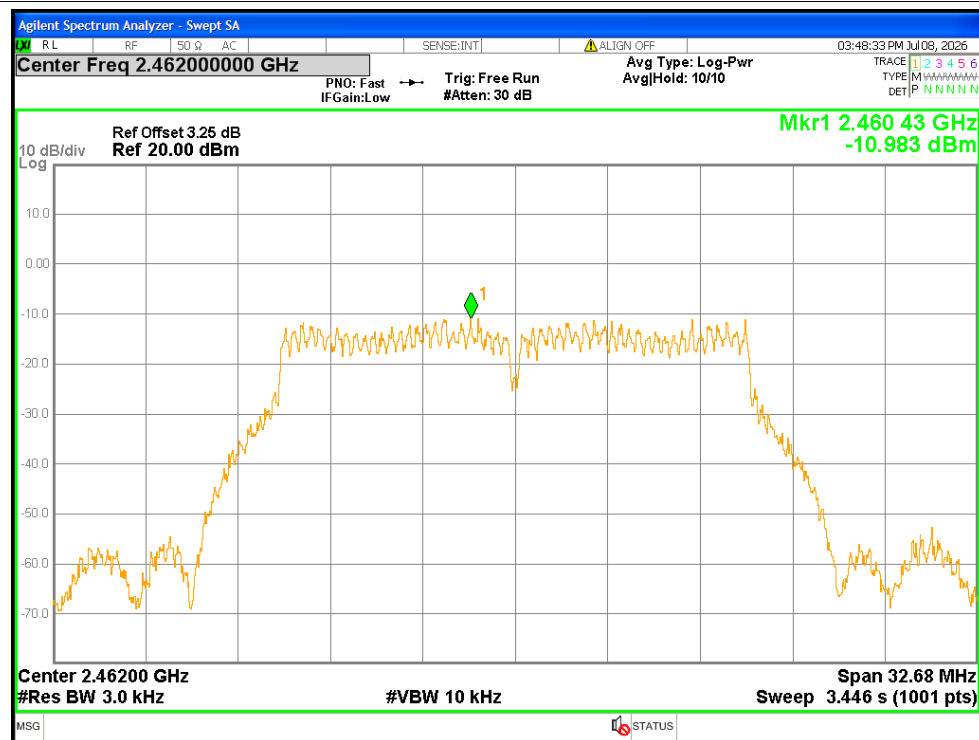
PSD NVNT g 2412MHz



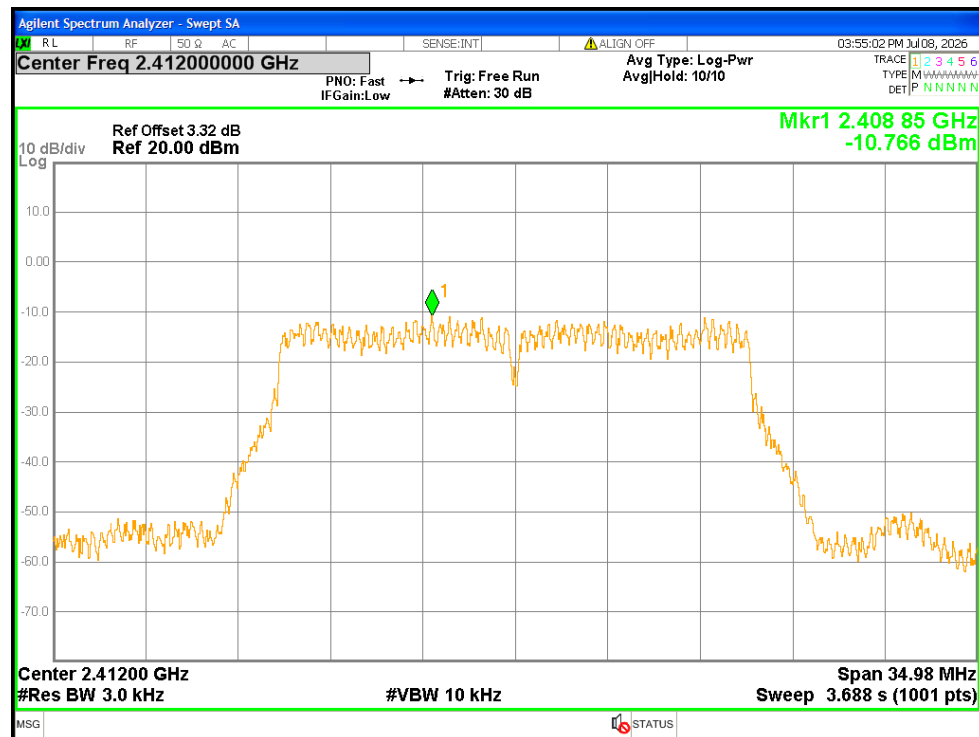
PSD NVNT g 2437MHz



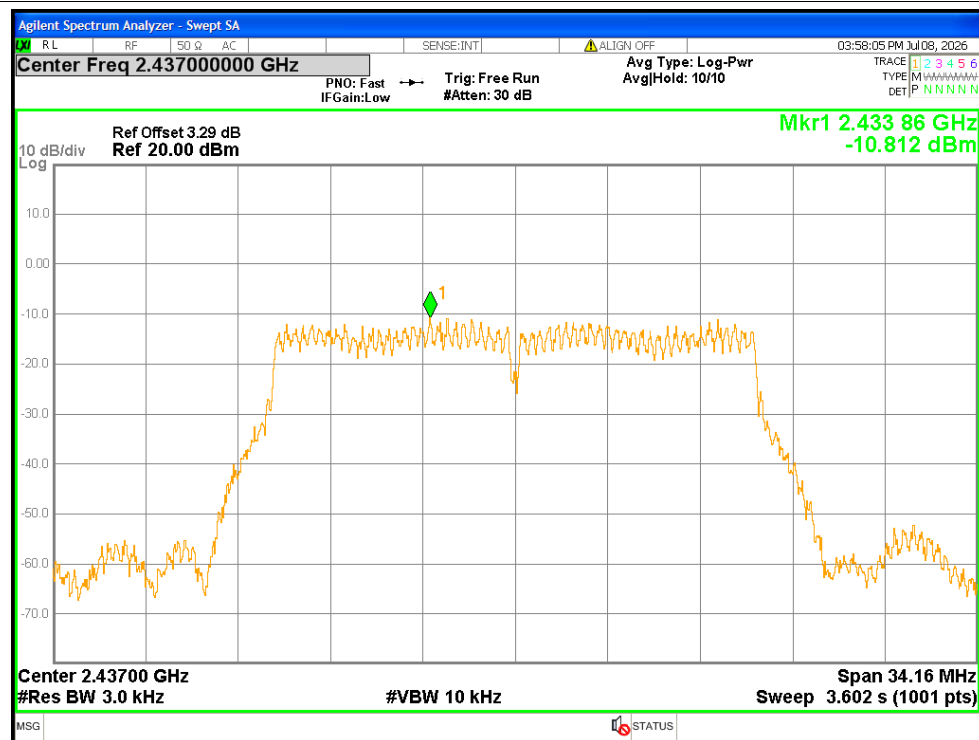
PSD NVNT g 2462MHz



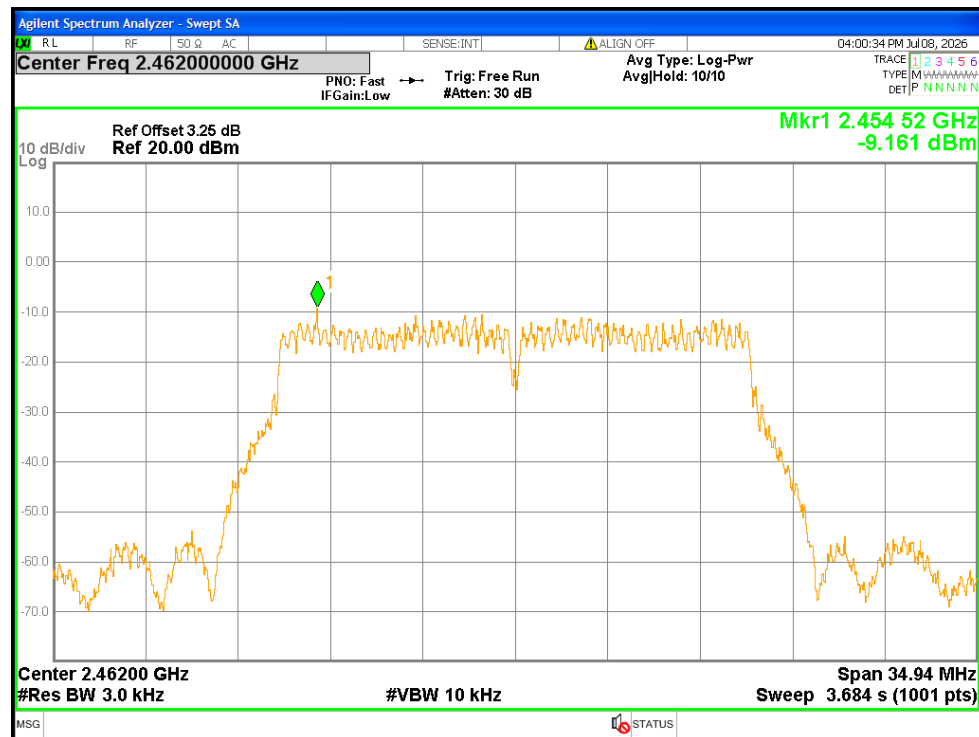
PSD NVNT n20 2412MHz



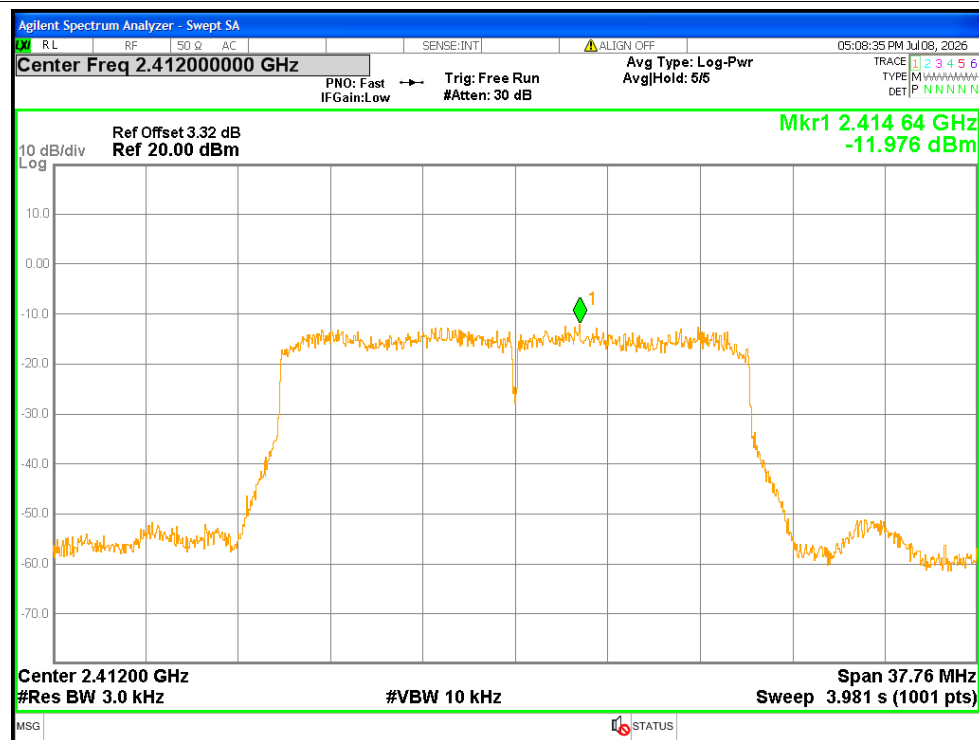
PSD NVNT n20 2437MHz



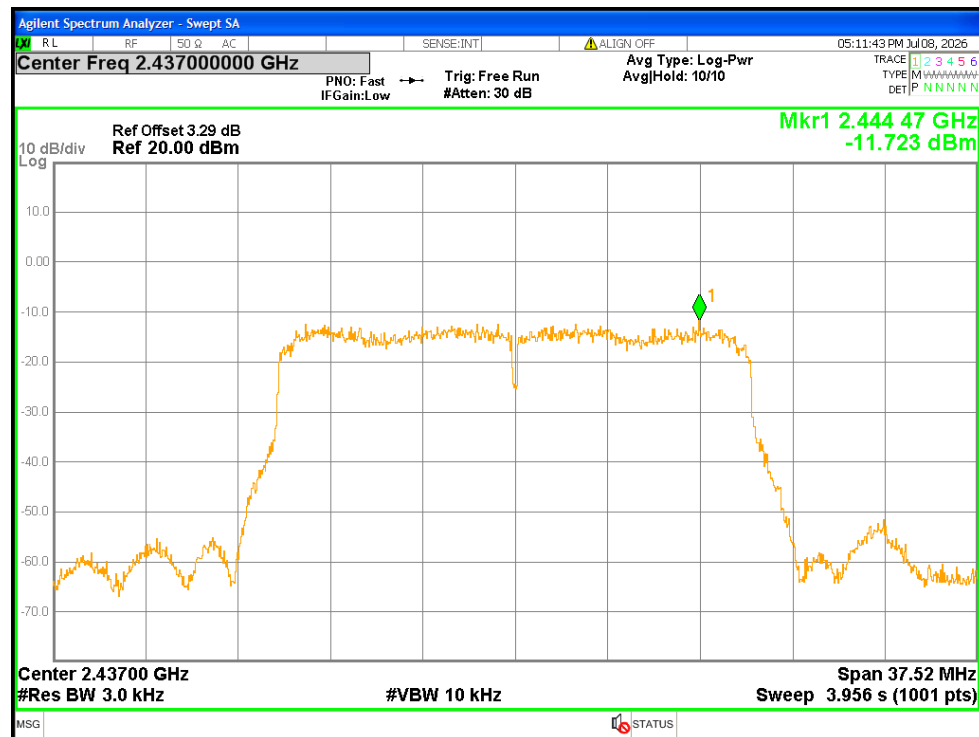
PSD NVNT n20 2462MHz



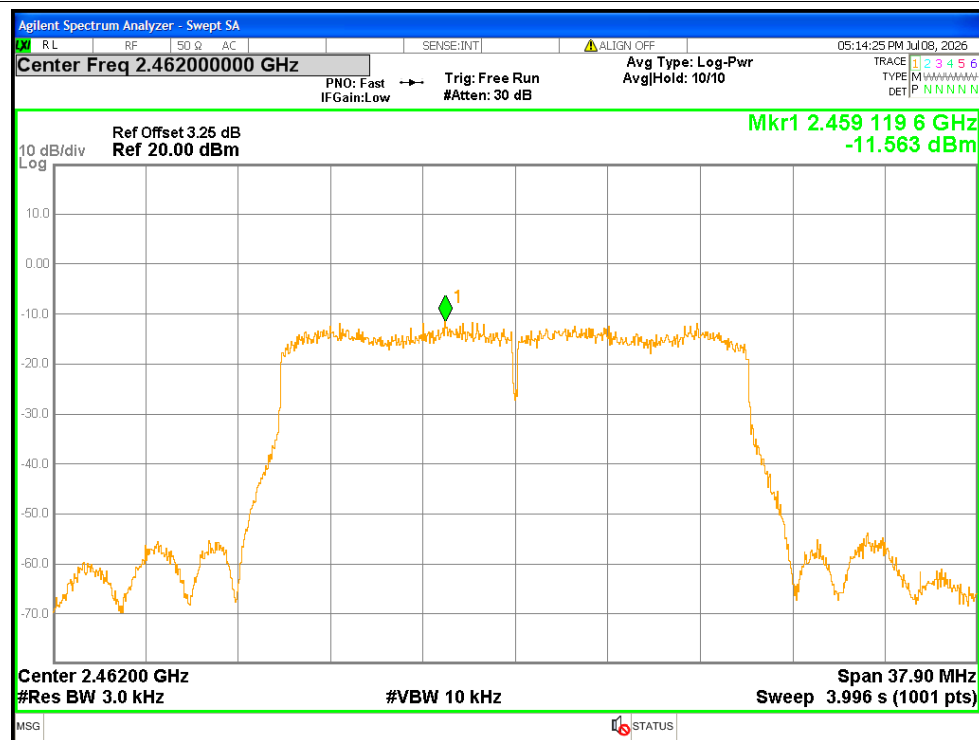
PSD NVNT ax20 2412MHz



PSD NVNT ax20 2437MHz



PSD NVNT ax20 2462MHz

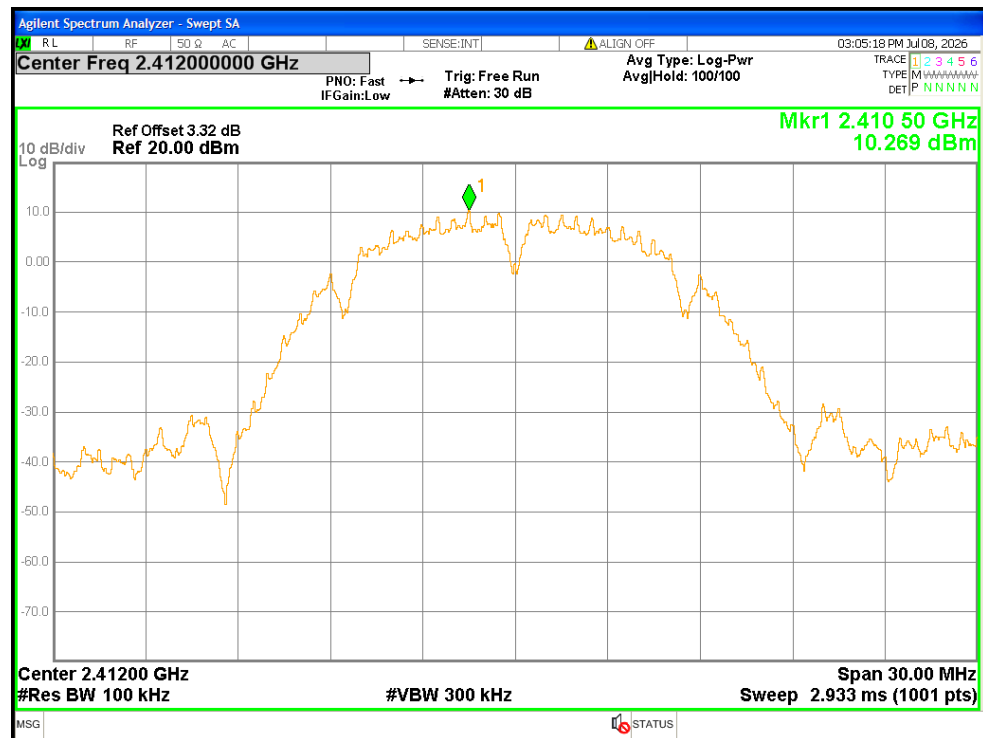


Band Edge

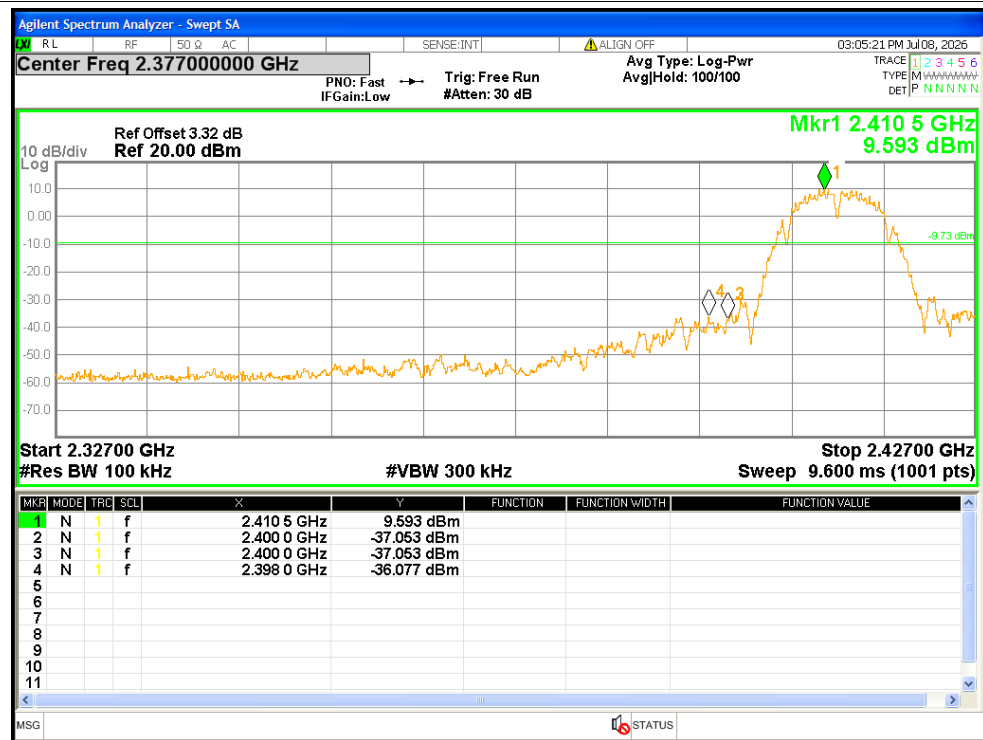
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	-46.34	<=-20	Pass
NVNT	b	2462	-54.58	<=-20	Pass
NVNT	g	2412	-39.79	<=-20	Pass
NVNT	g	2462	-54.2	<=-20	Pass
NVNT	n20	2412	-40.27	<=-20	Pass
NVNT	n20	2462	-54.15	<=-20	Pass
NVNT	ax20	2412	-40.78	<=-20	Pass
NVNT	ax20	2462	-53.25	<=-20	Pass

Test Graphs

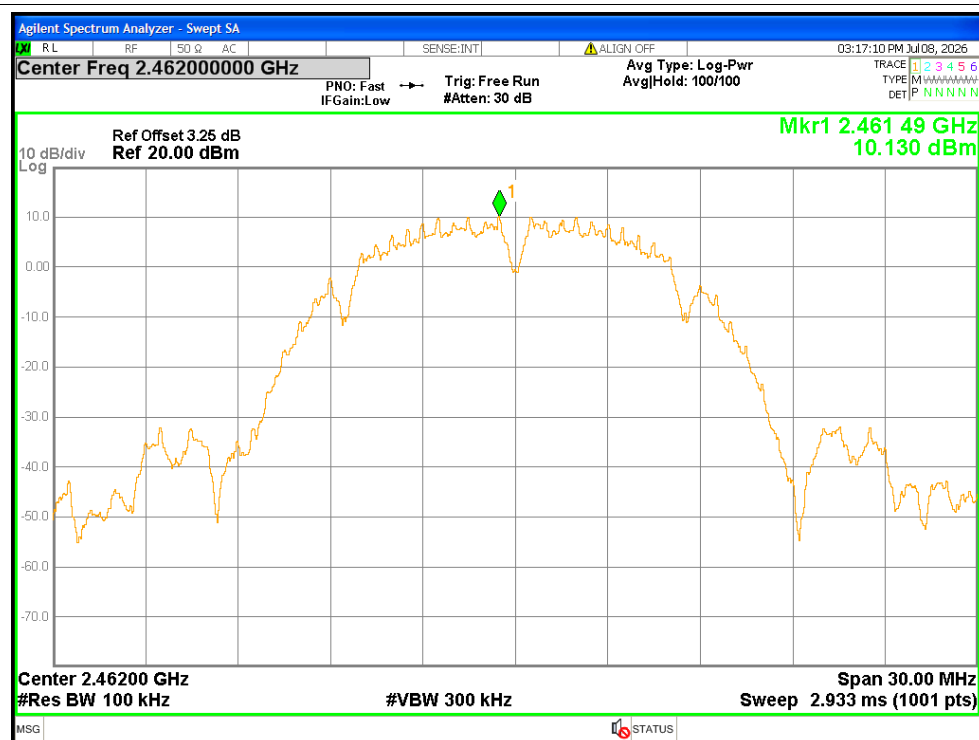
Band Edge NVNT b 2412MHz Ref



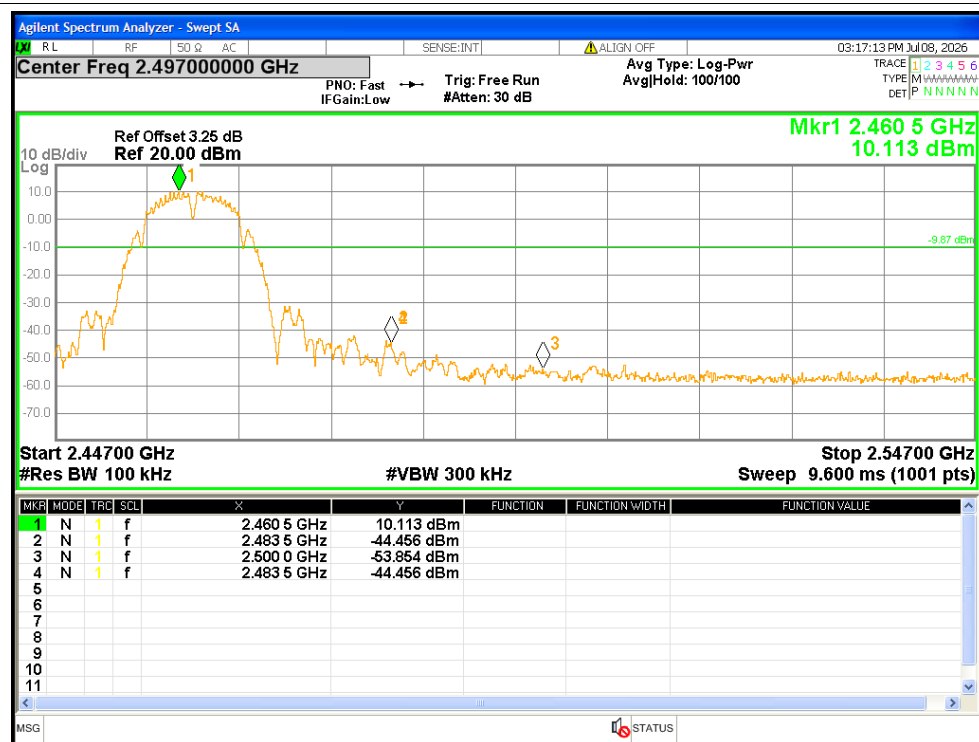
Band Edge NVNT b 2412MHz Emission



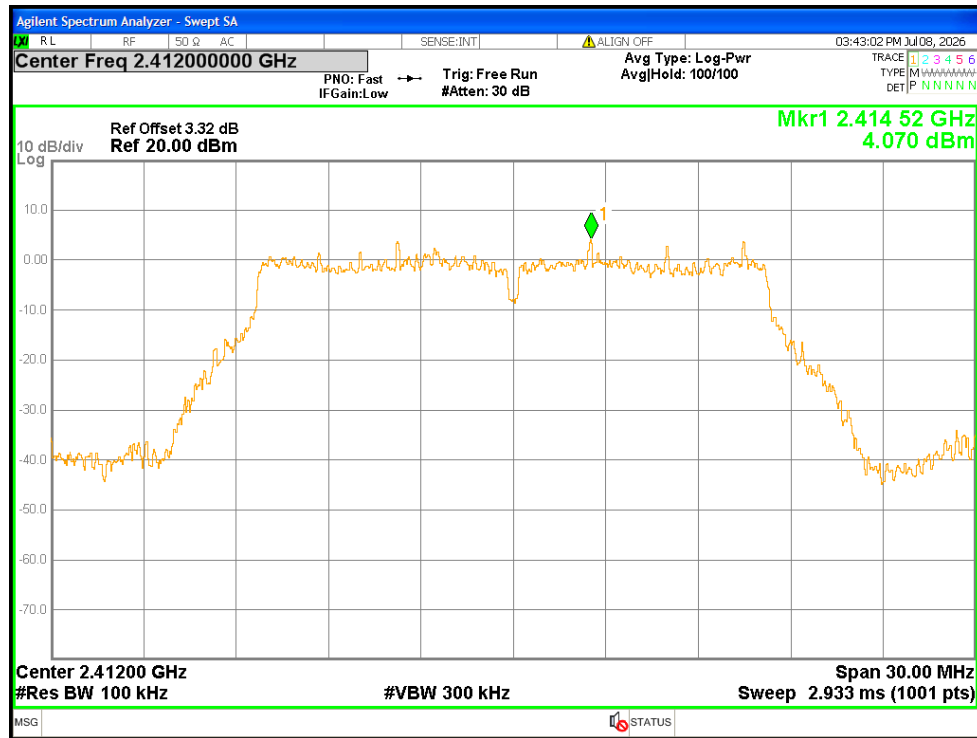
Band Edge NVNT b 2462MHz Ref



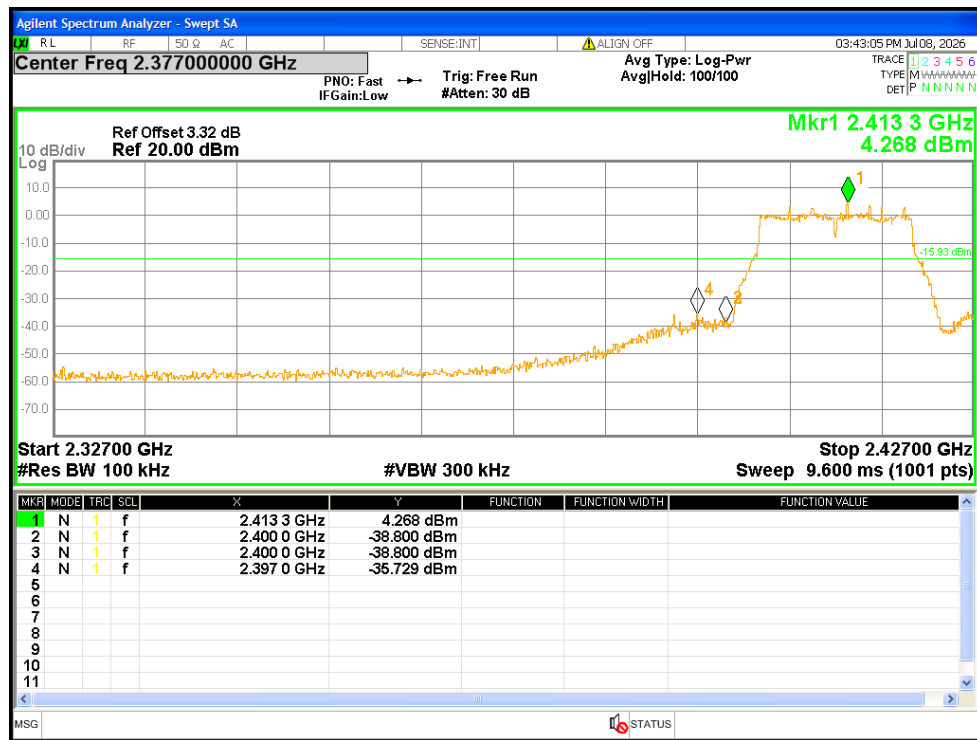
Band Edge NVNT b 2462MHz Emission



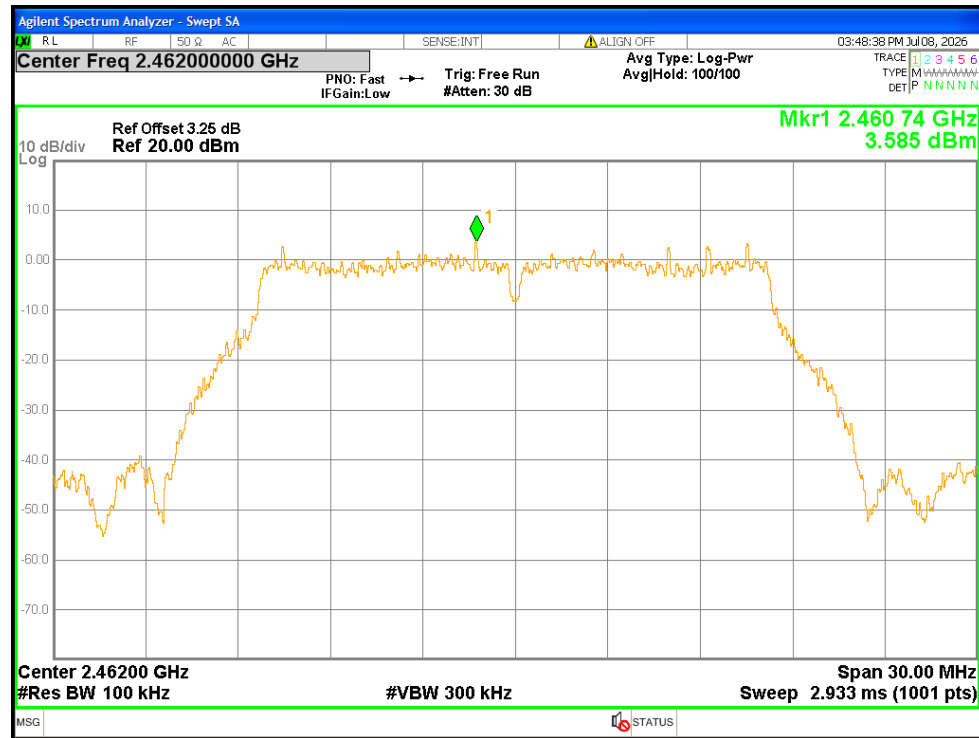
Band Edge NVNT g 2412MHz Ref



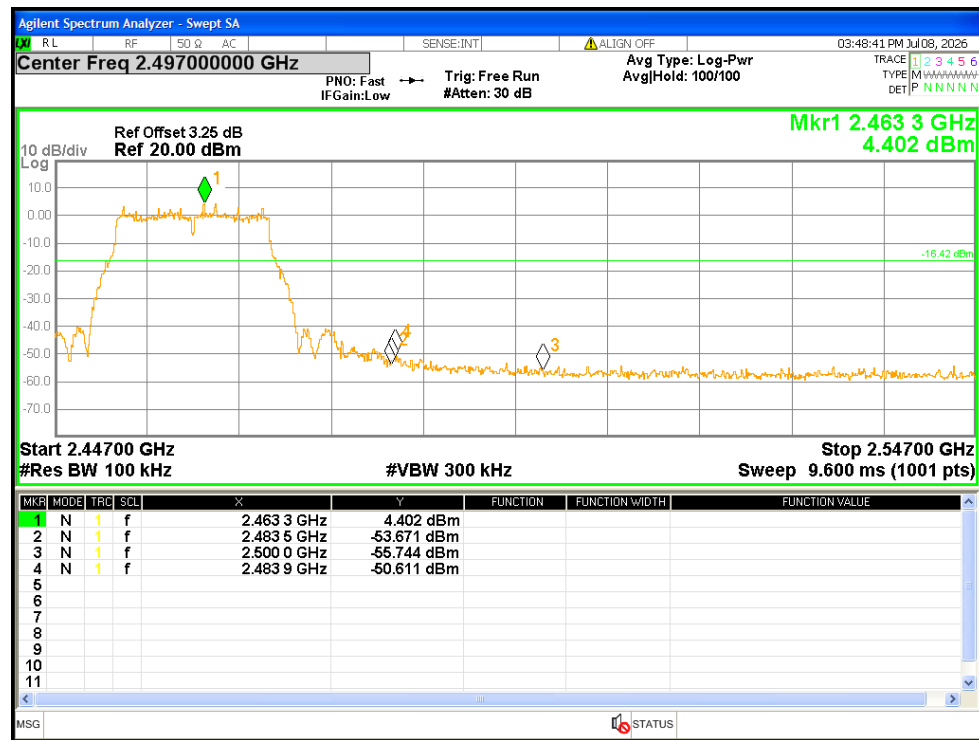
Band Edge NVNT g 2412MHz Emission



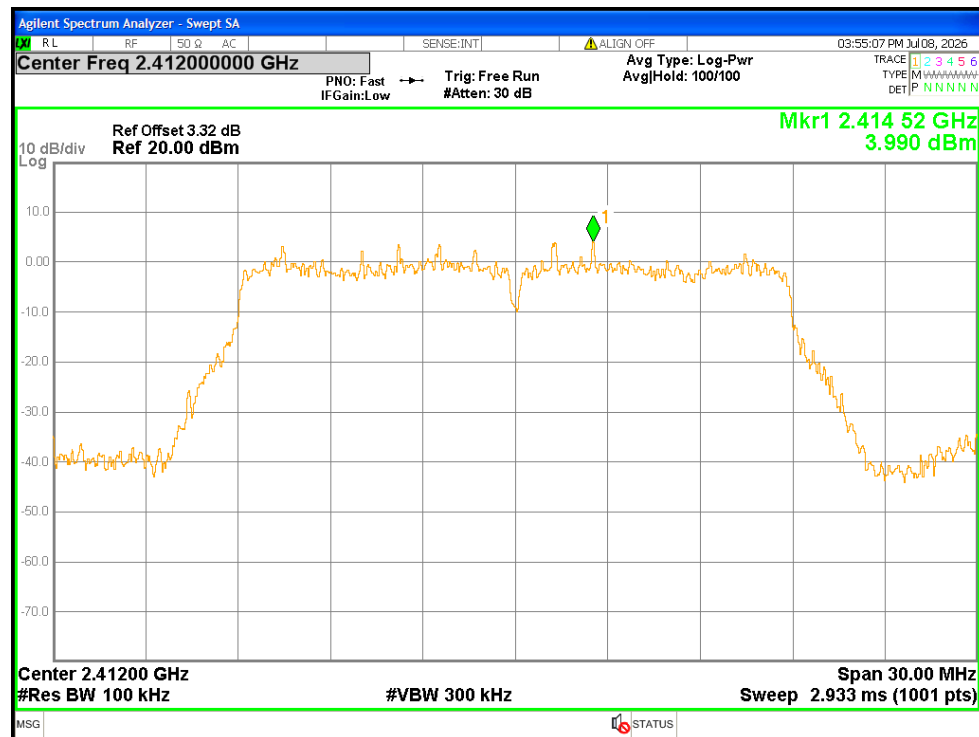
Band Edge NVNT g 2462MHz Ref



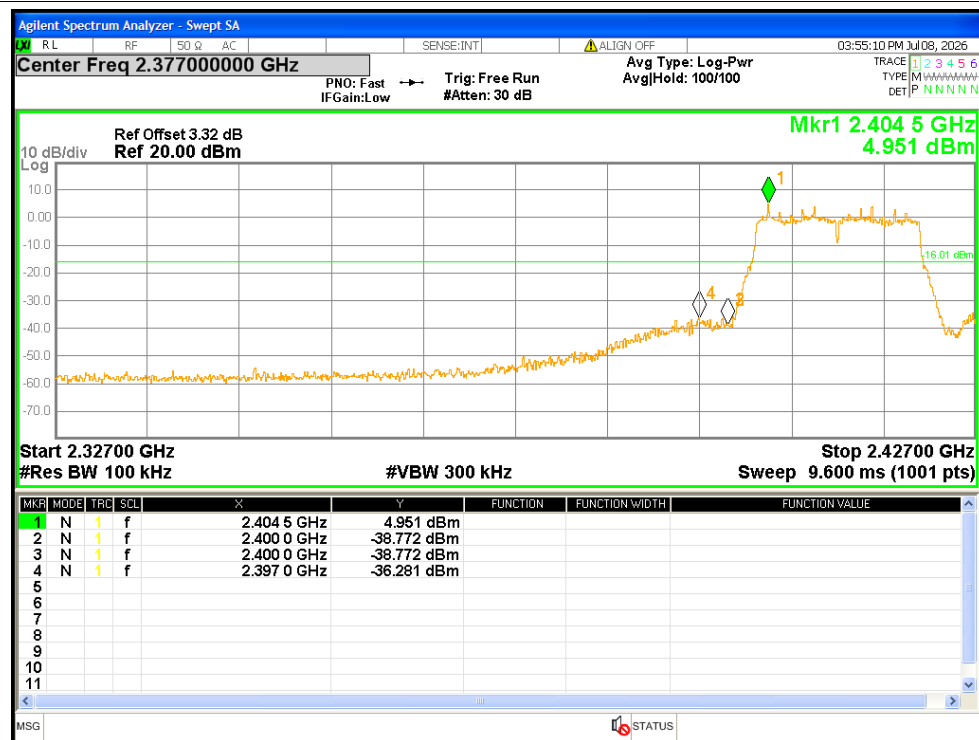
Band Edge NVNT g 2462MHz Emission



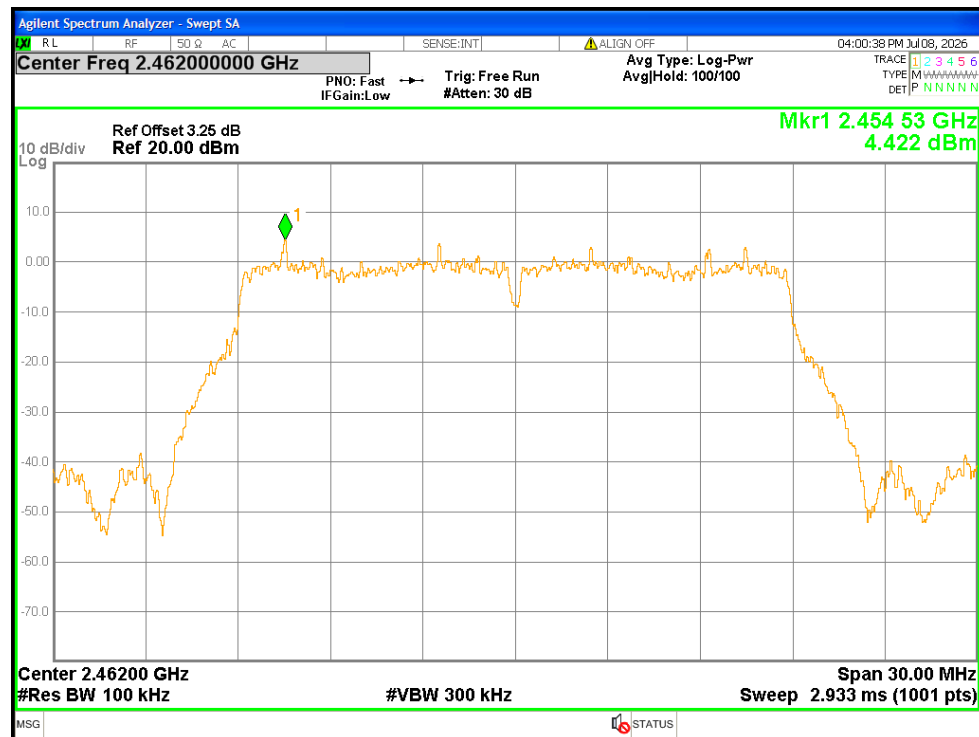
Band Edge NVNT n20 2412MHz Ref



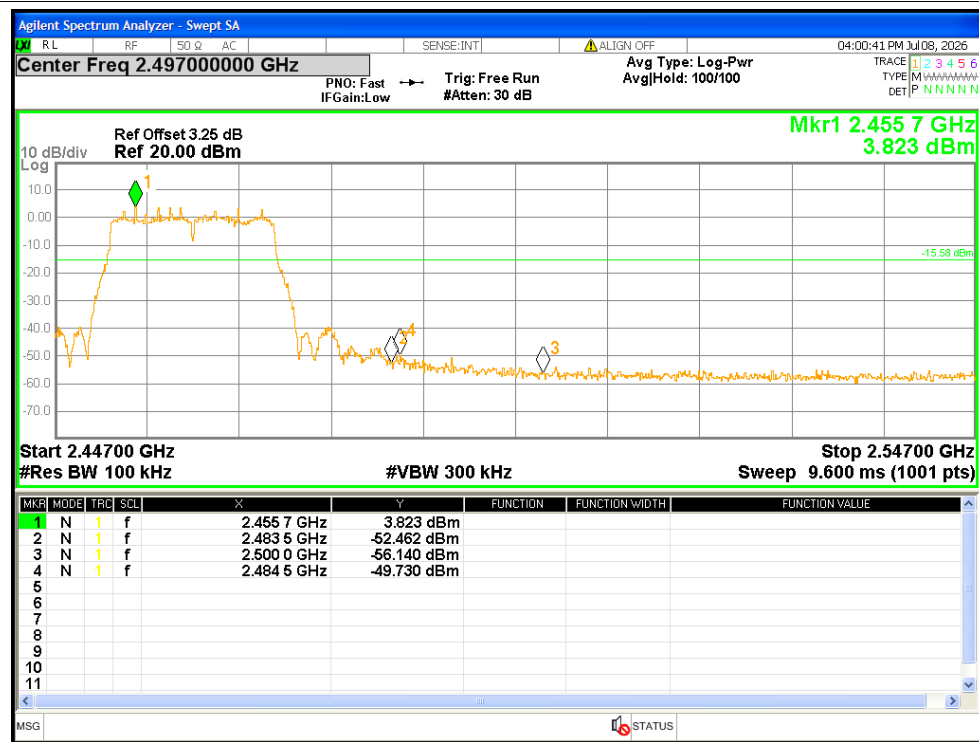
Band Edge NVNT n20 2412MHz Emission



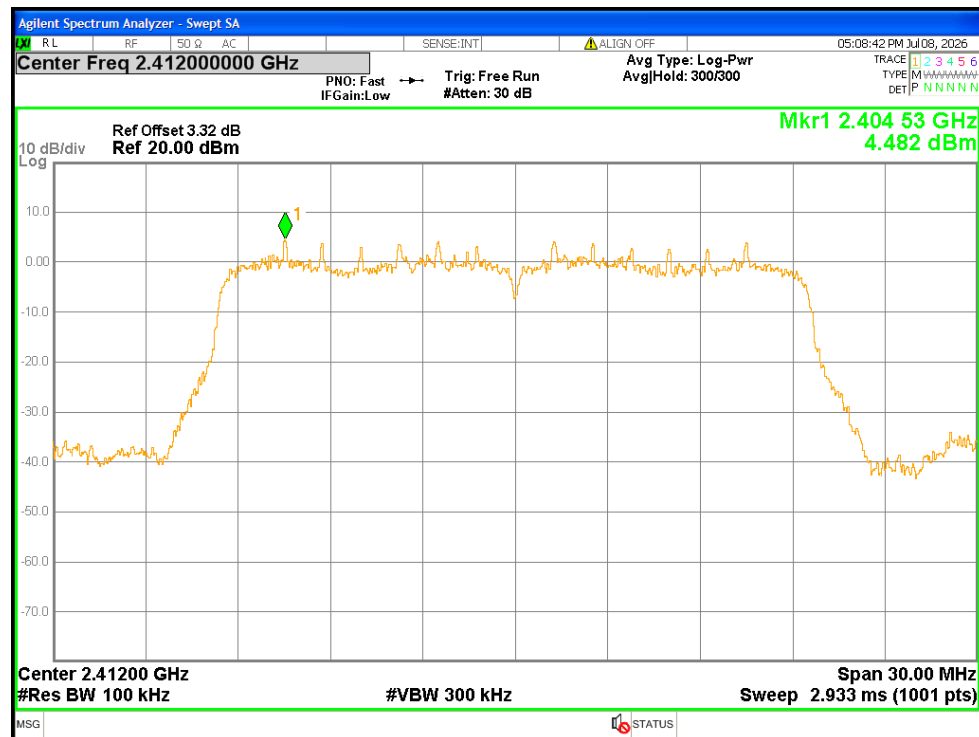
Band Edge NVNT n20 2462MHz Ref



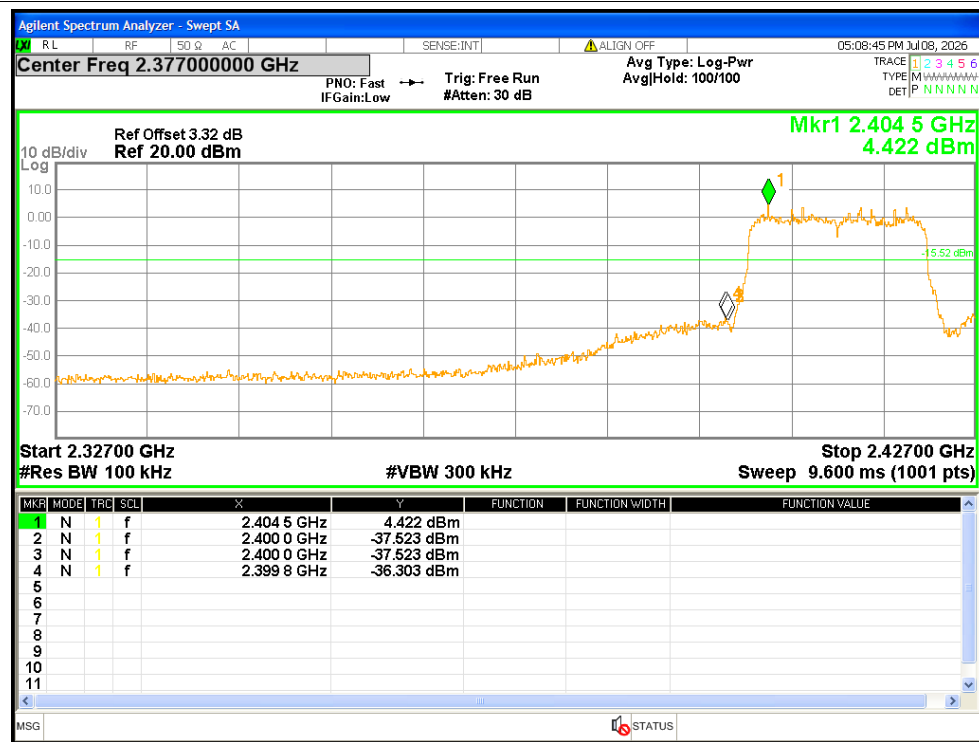
Band Edge NVNT n20 2462MHz Emission



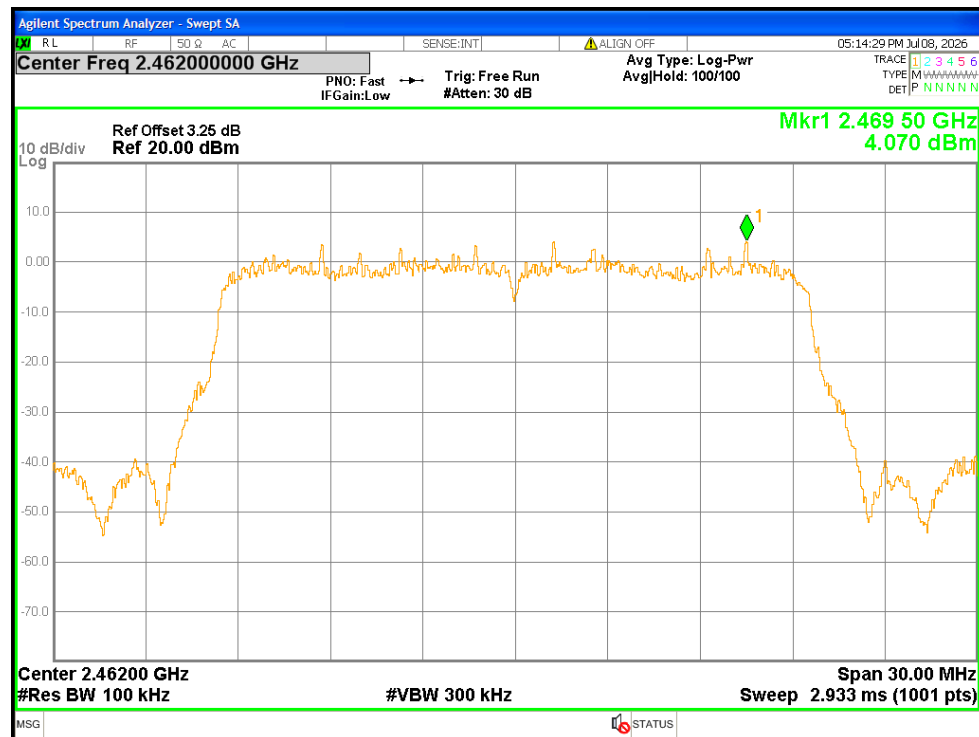
Band Edge NVNT ax20 2412MHz Ref



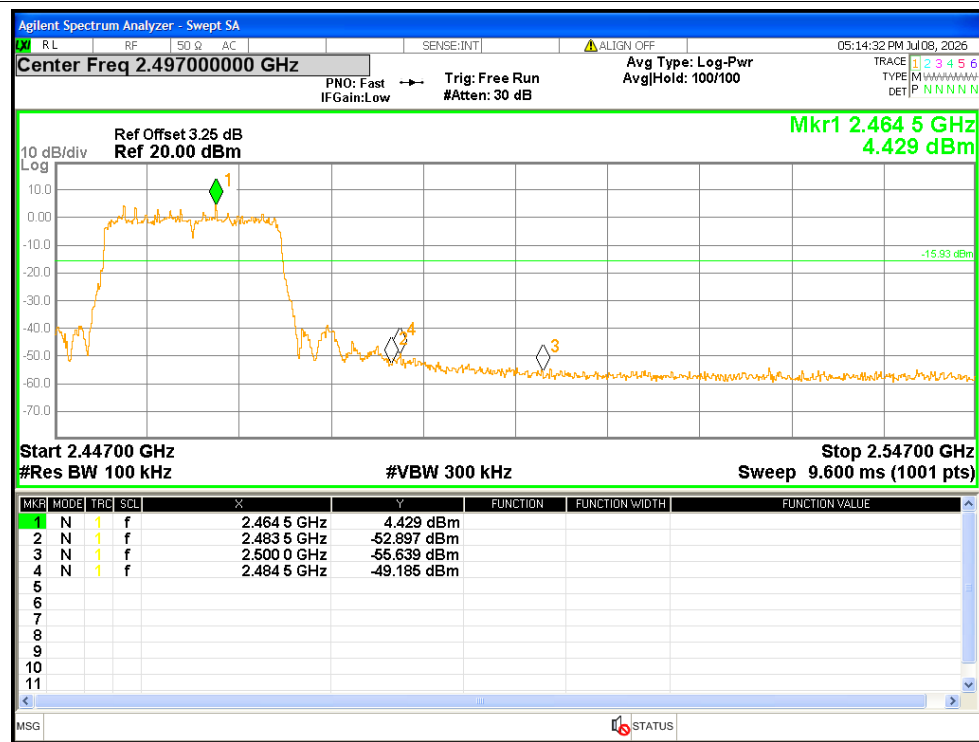
Band Edge NVNT ax20 2412MHz Emission



Band Edge NVNT ax20 2462MHz Ref



Band Edge NVNT ax20 2462MHz Emission

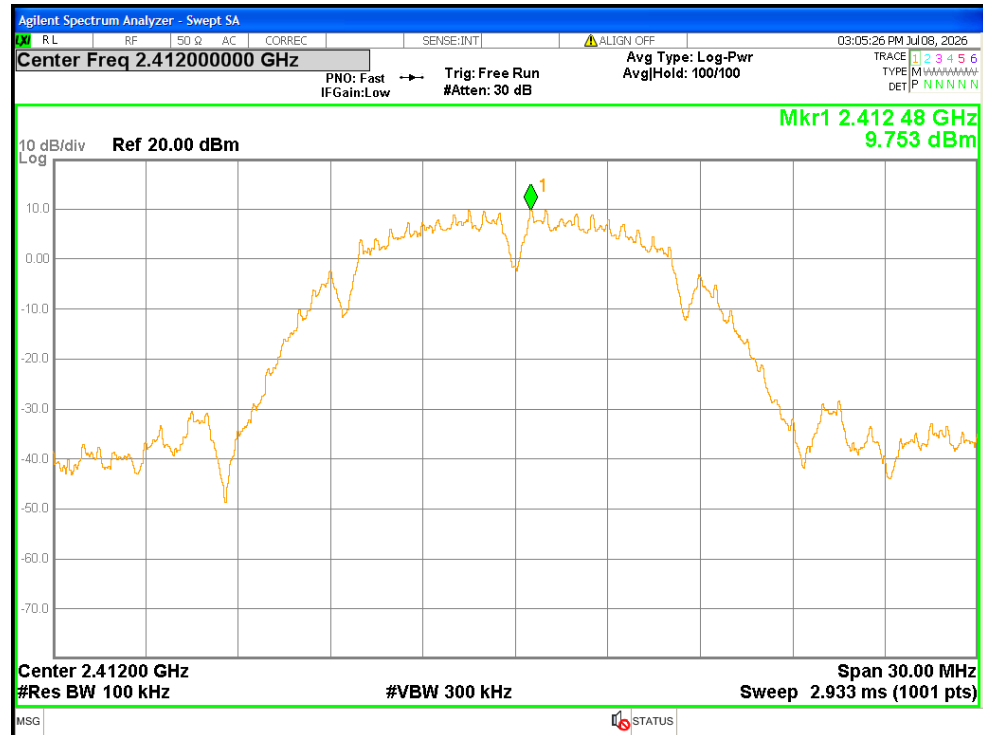


Conducted RF Spurious Emission

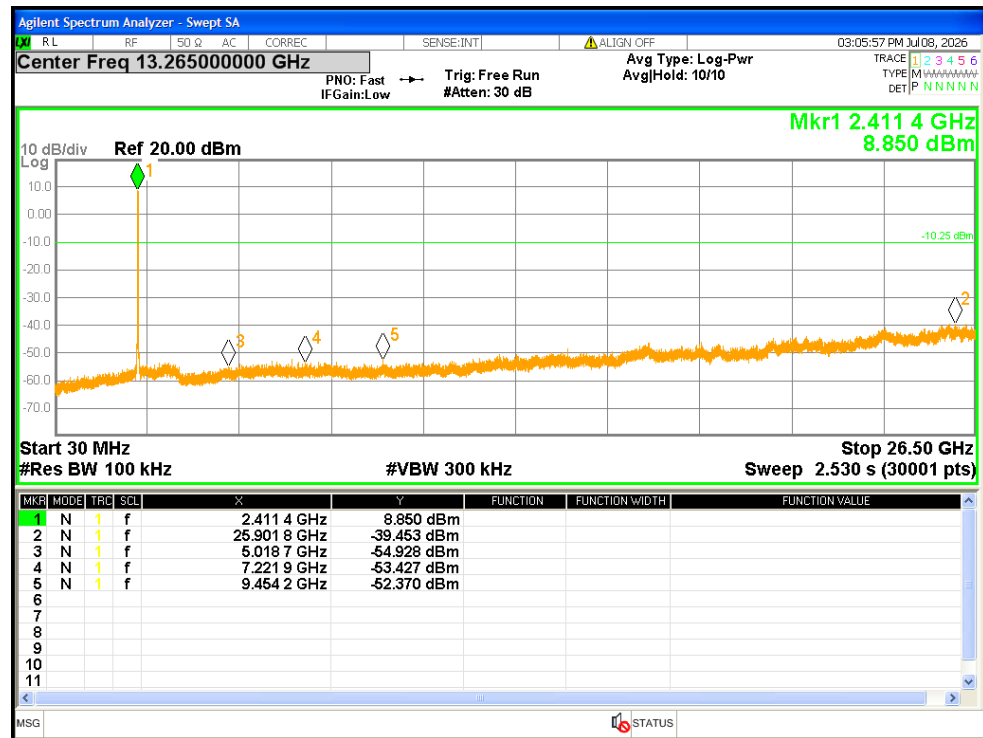
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	-49.2	<=-20	Pass
NVNT	b	2437	-48.94	<=-20	Pass
NVNT	b	2462	-49.61	<=-20	Pass
NVNT	g	2412	-42.82	<=-20	Pass
NVNT	g	2437	-42.97	<=-20	Pass
NVNT	g	2462	-43.67	<=-20	Pass
NVNT	n20	2412	-43.75	<=-20	Pass
NVNT	n20	2437	-44.05	<=-20	Pass
NVNT	n20	2462	-44.35	<=-20	Pass
NVNT	ax20	2412	-42.33	<=-20	Pass
NVNT	ax20	2437	-42.96	<=-20	Pass
NVNT	ax20	2462	-43.21	<=-20	Pass

Test Graphs

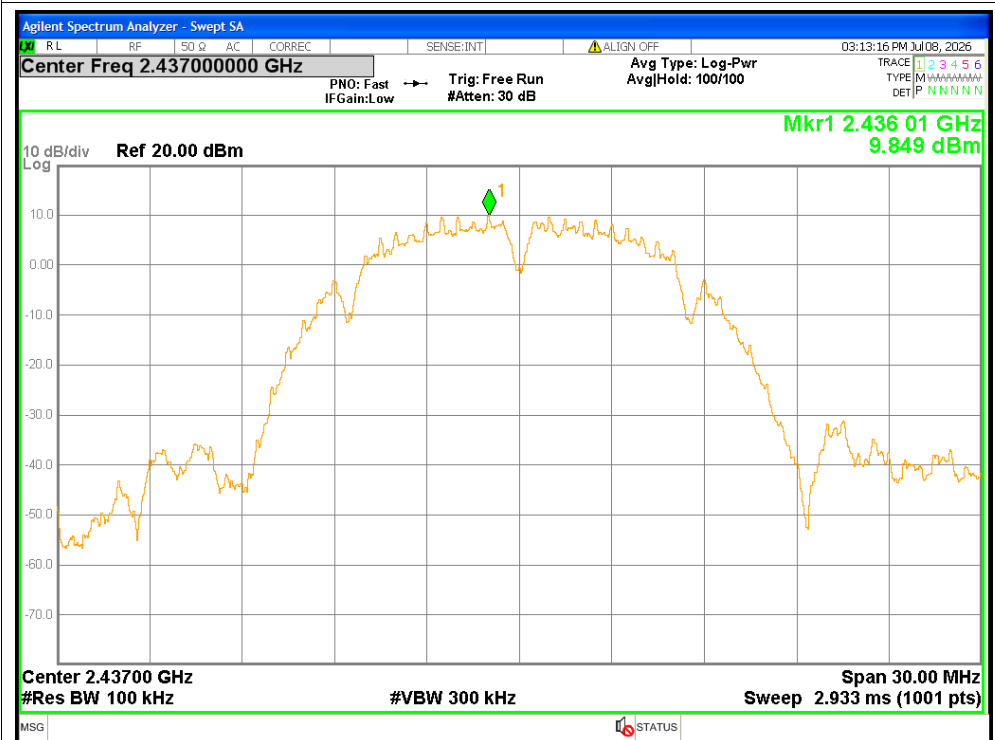
Tx. Spurious NVNT b 2412MHz Ref



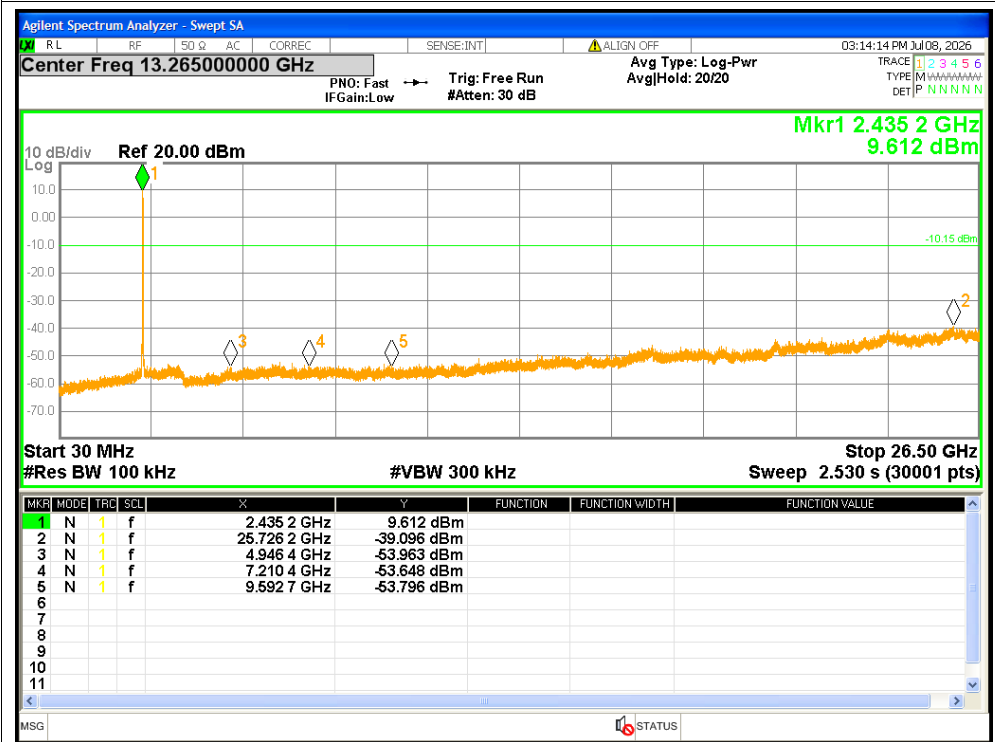
Tx. Spurious NVNT b 2412MHz Emission



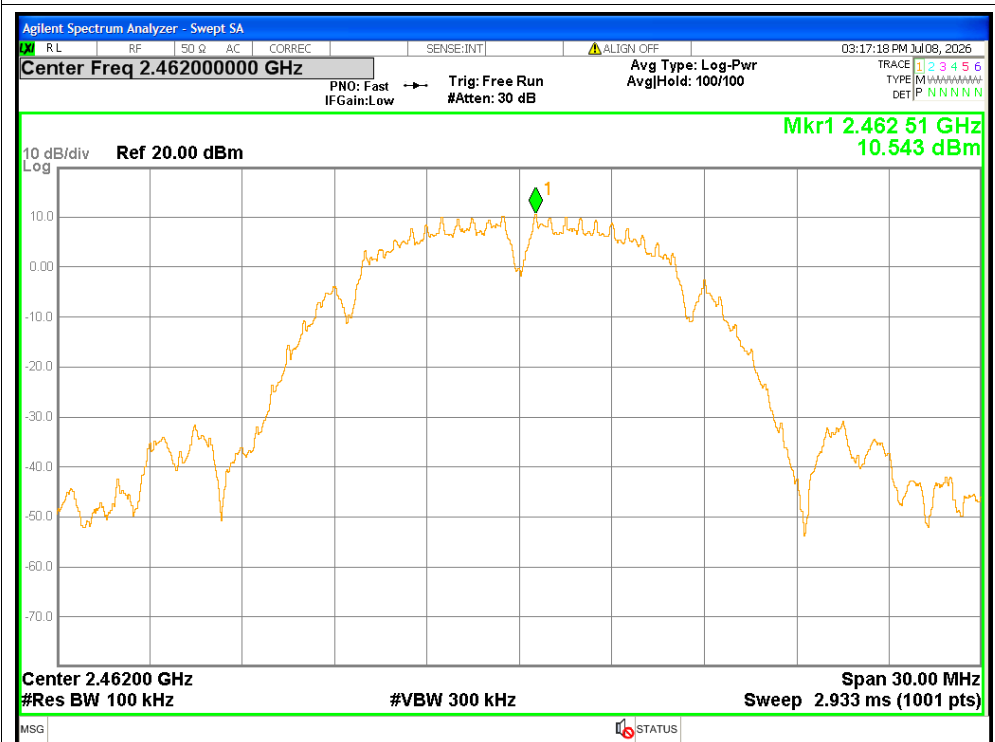
Tx. Spurious NVNT b 2437MHz Ref



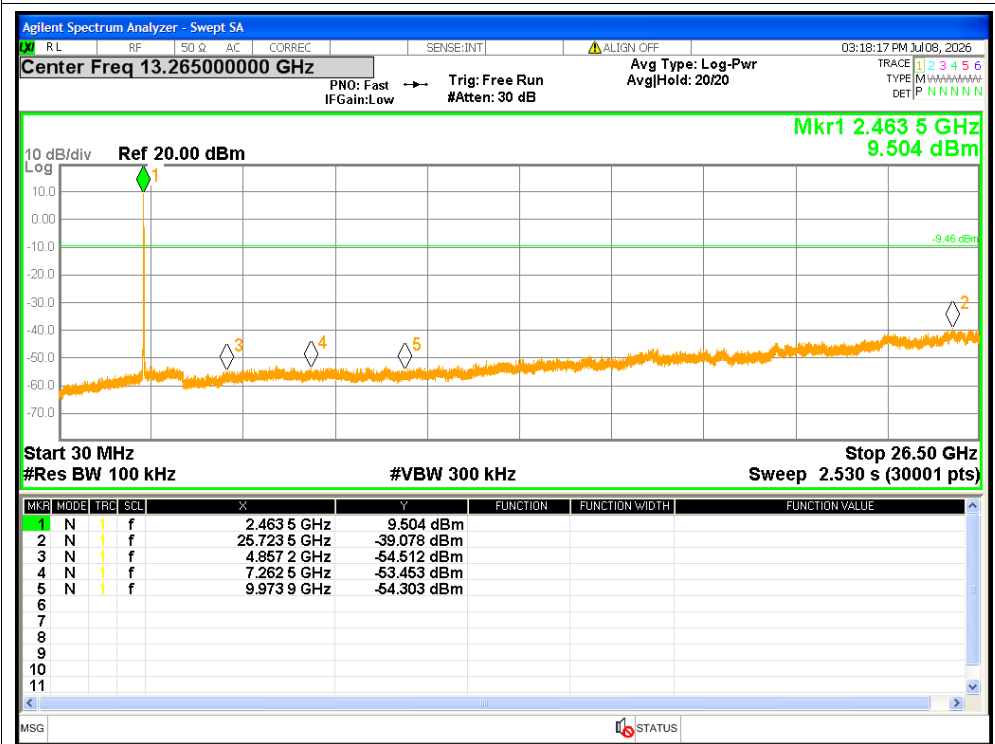
Tx. Spurious NVNT b 2437MHz Emission



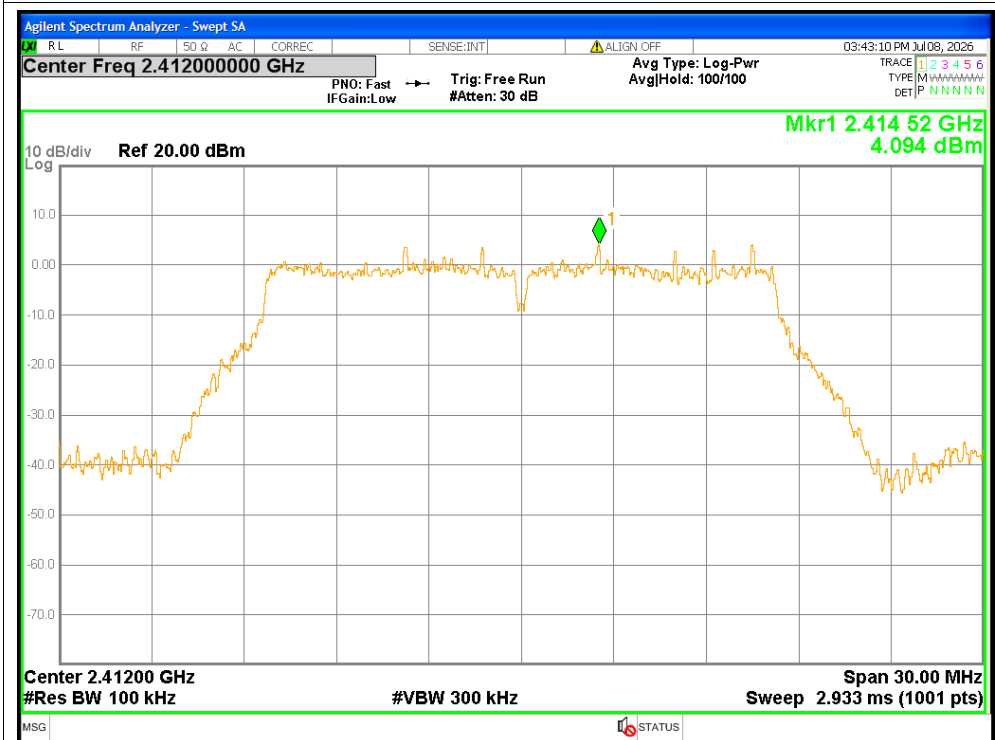
Tx. Spurious NVNT b 2462MHz Ref



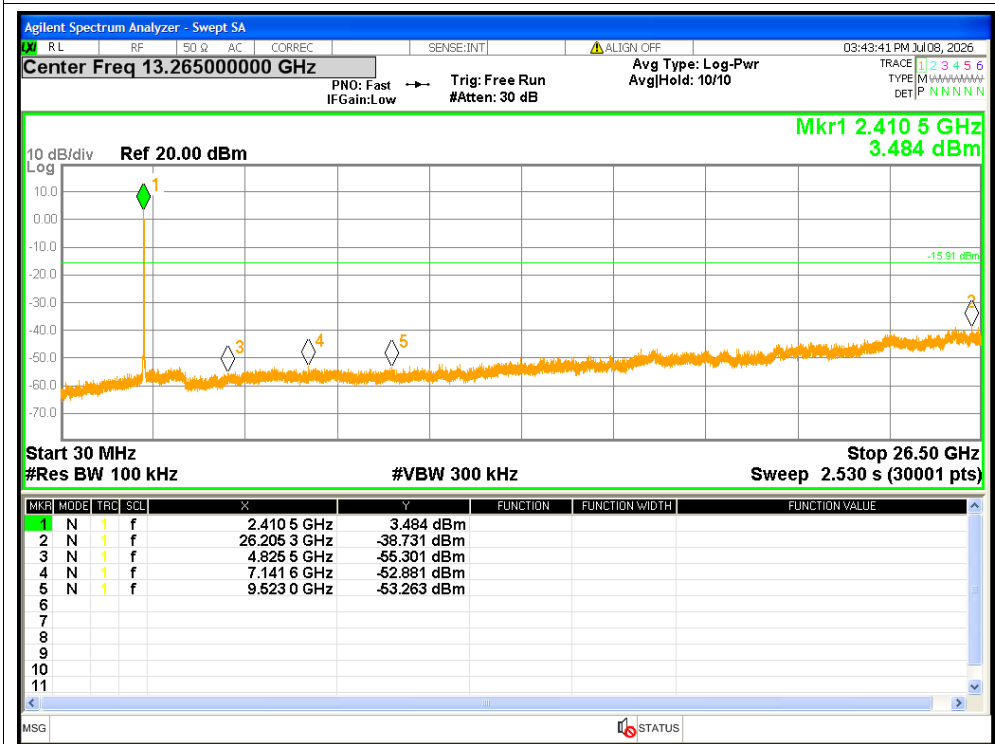
Tx. Spurious NVNT b 2462MHz Emission



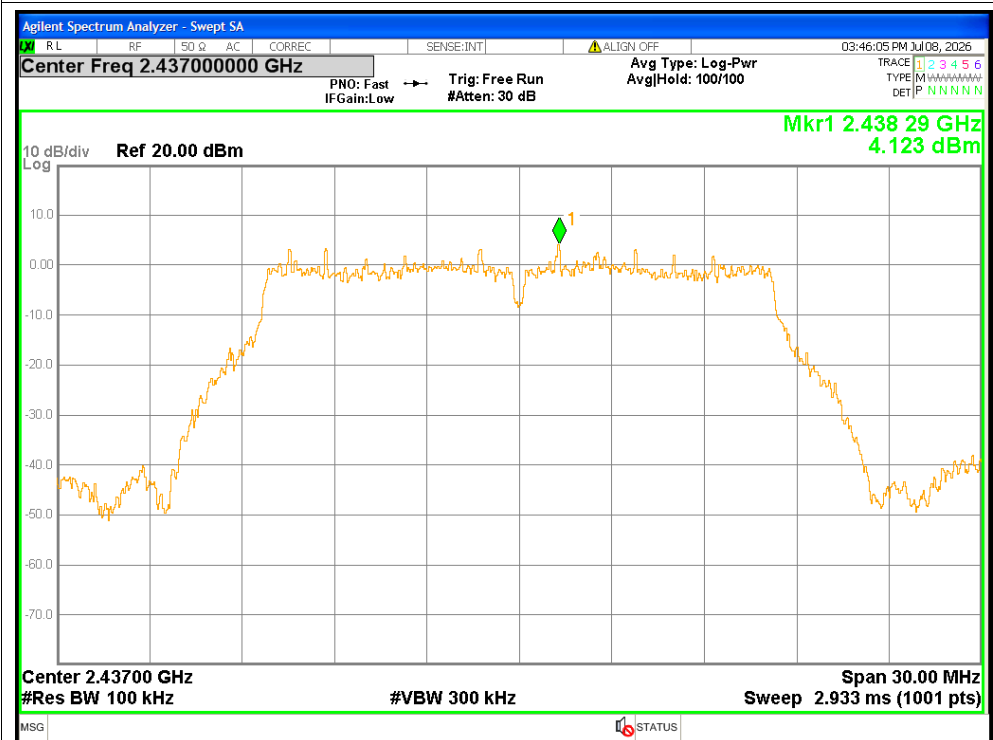
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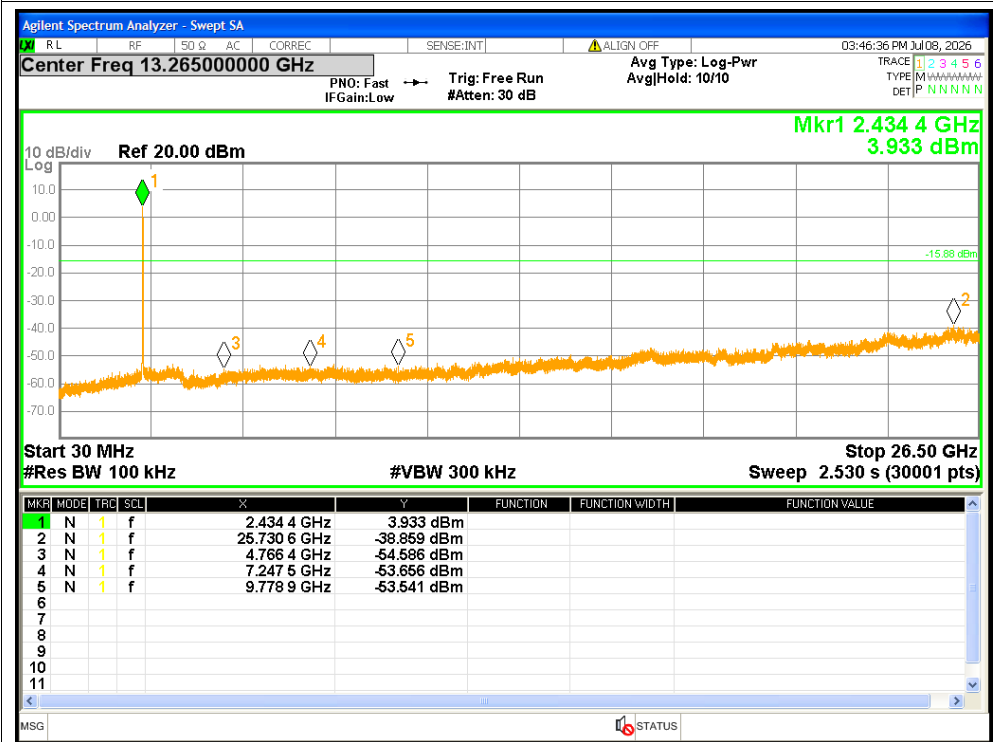
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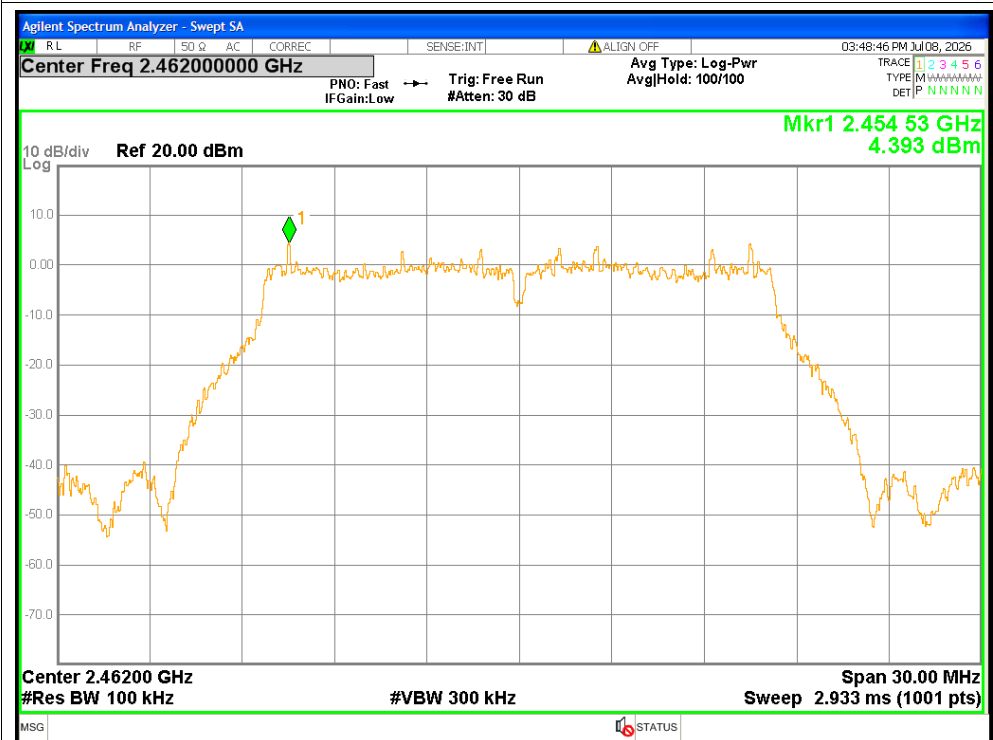
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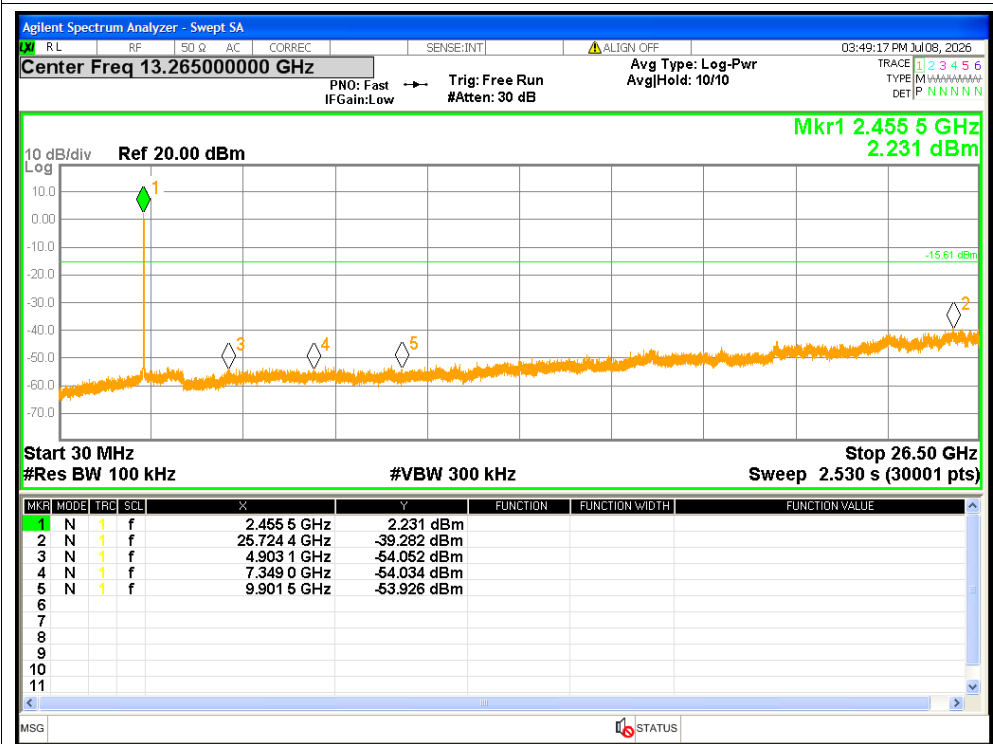
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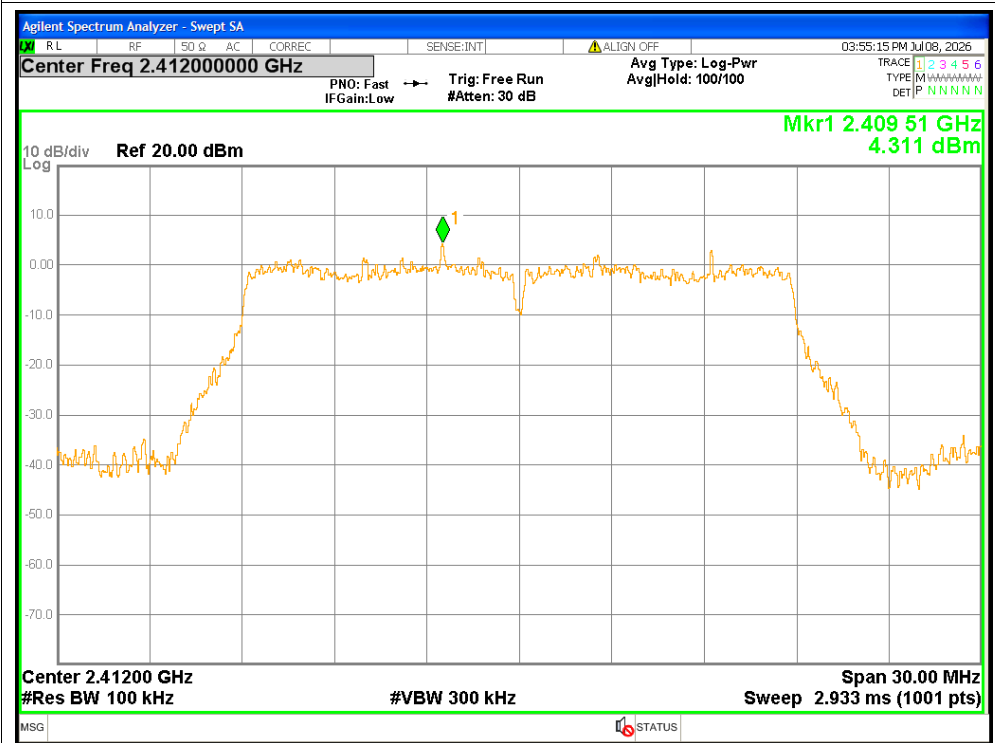
Tx. Spurious NVNT g 2462MHz Ref



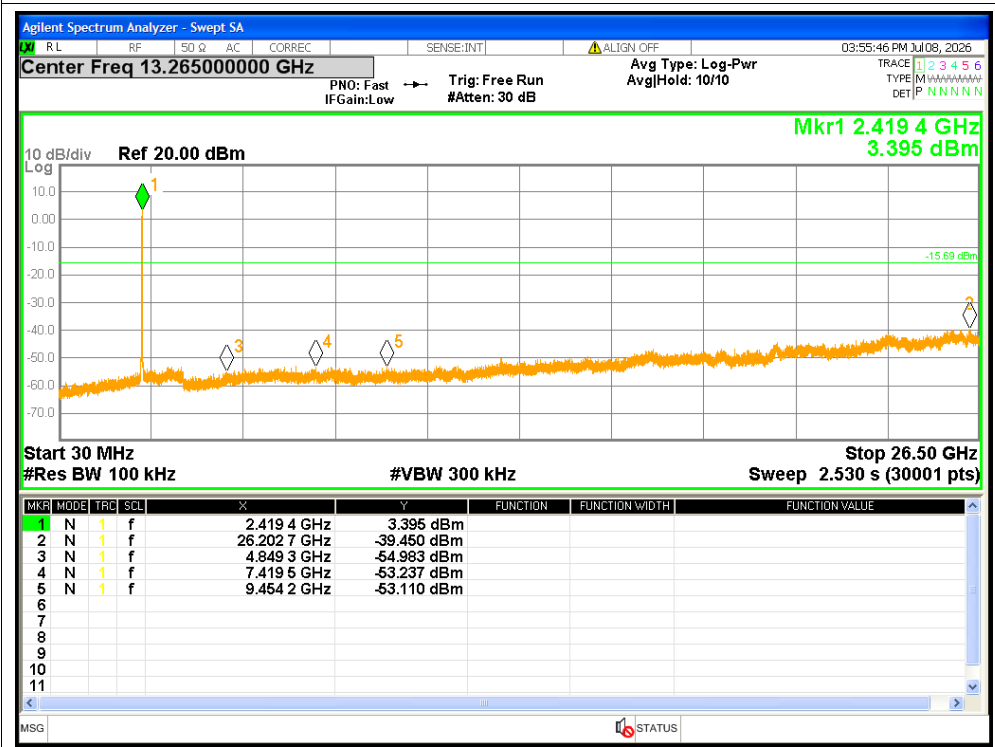
Tx. Spurious NVNT g 2462MHz Emission



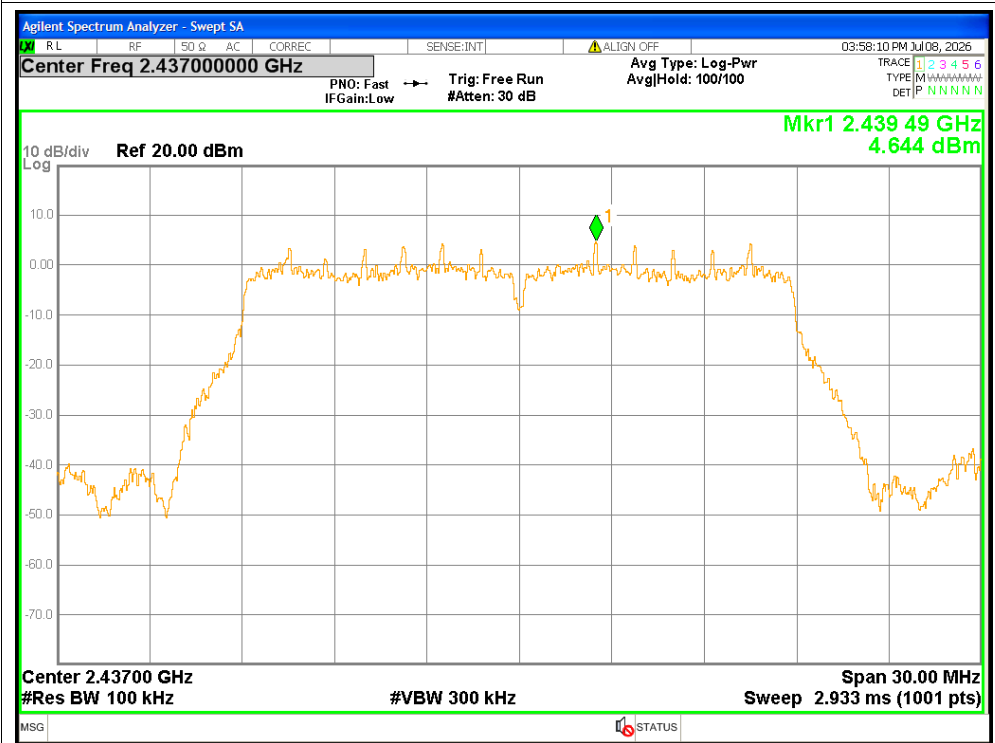
Tx. Spurious NVNT n20 2412MHz Ref



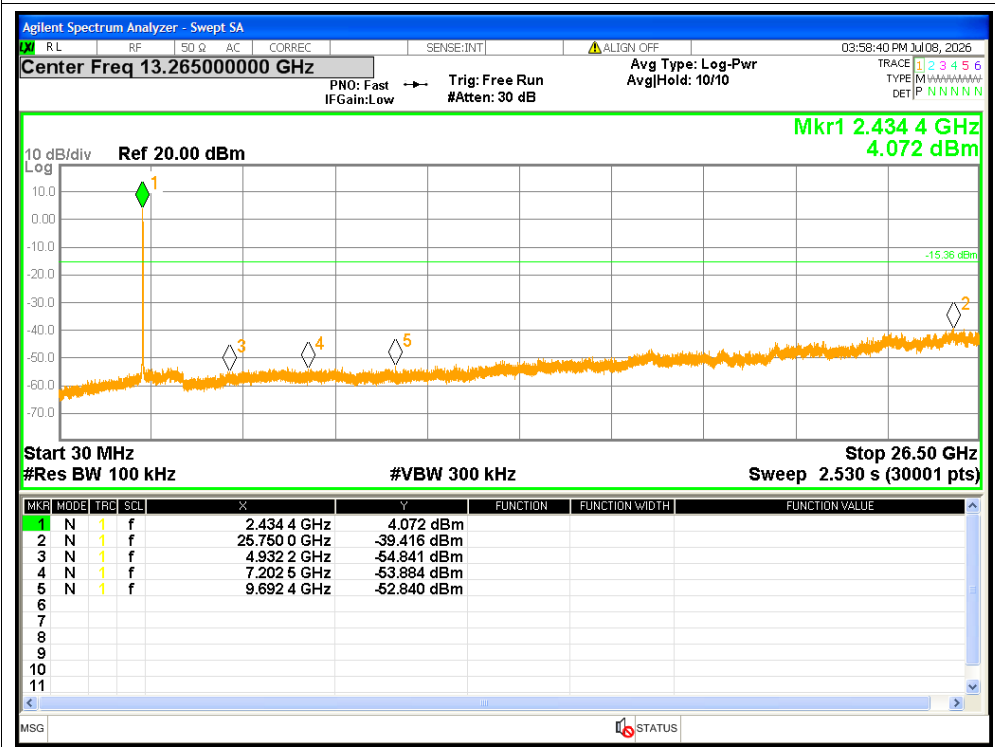
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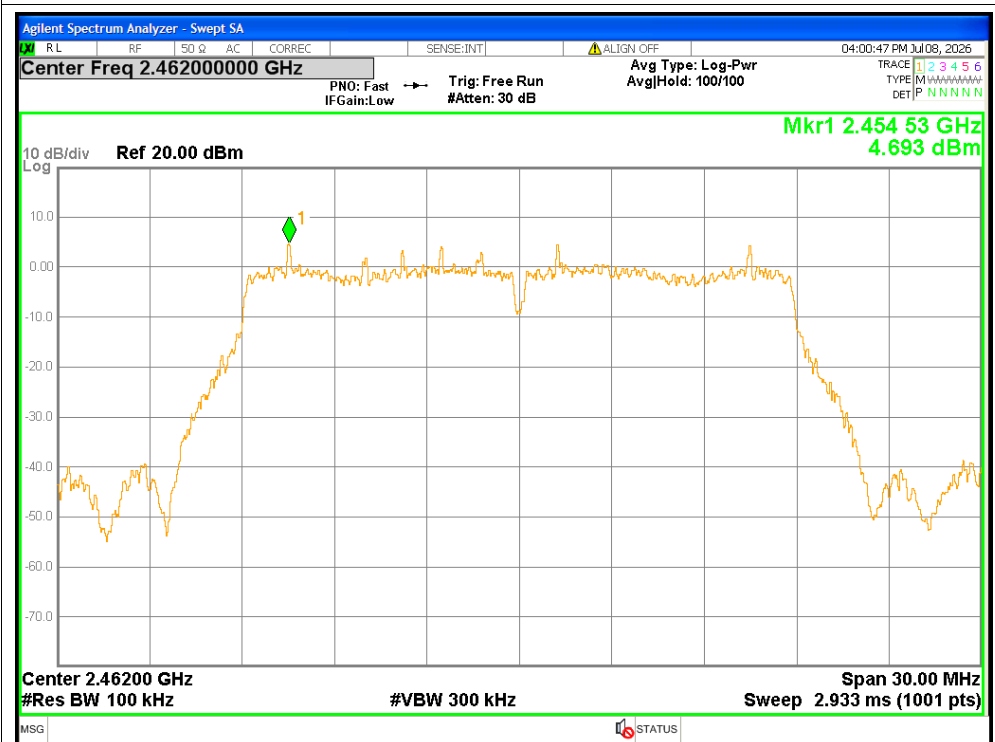
Tx. Spurious NVNT n20 2437MHz Ref



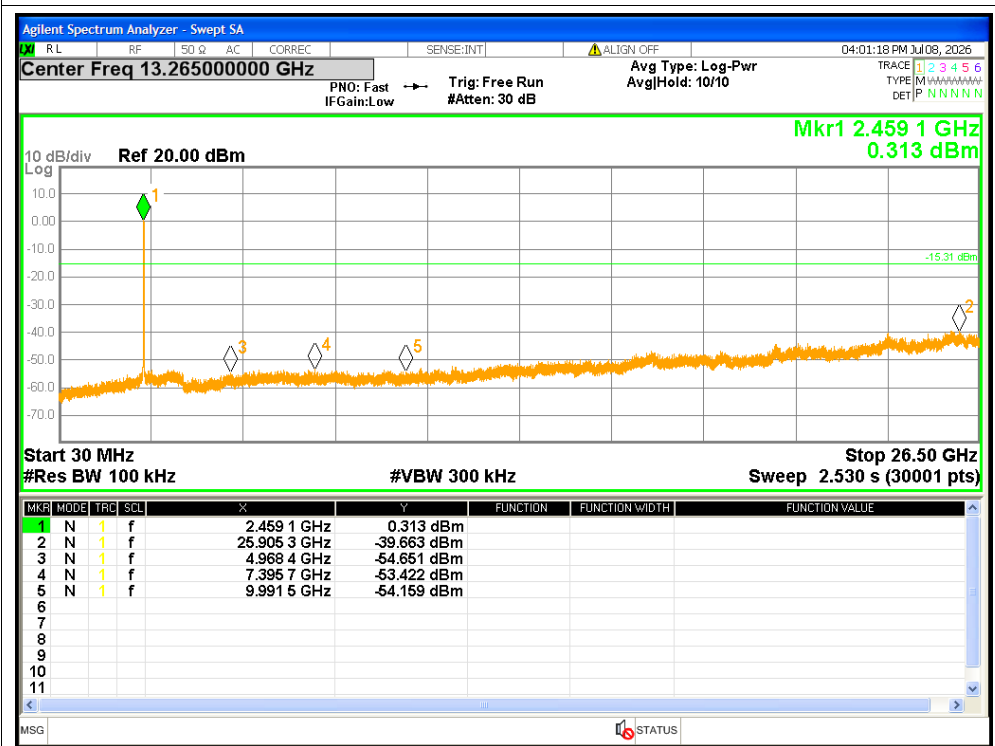
Tx. Spurious NVNT n20 2437MHz Emission



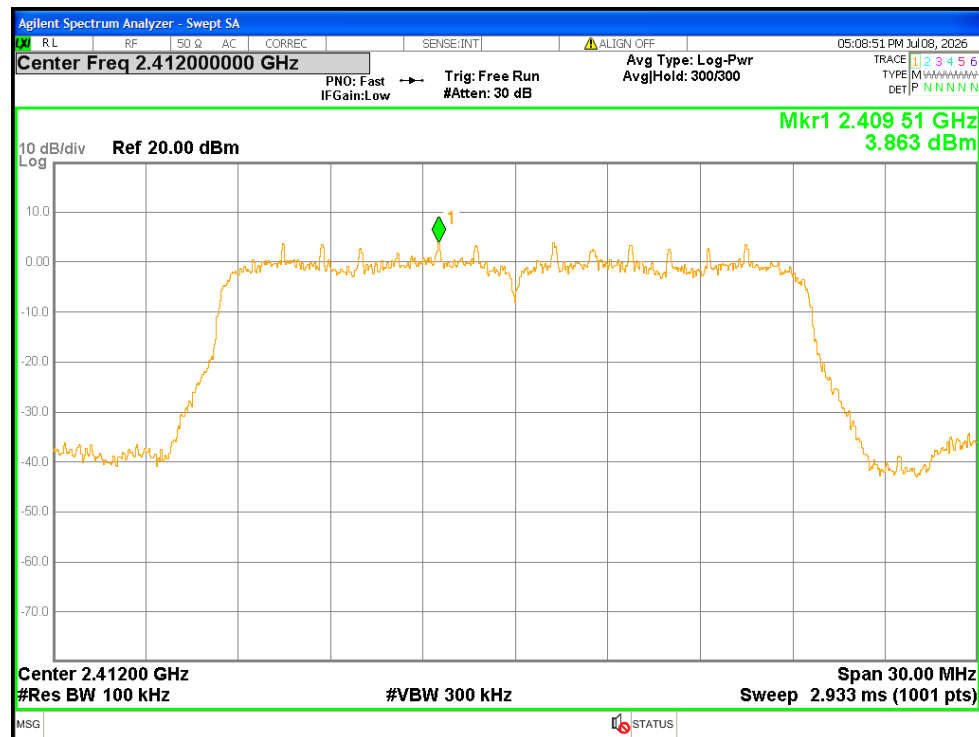
Tx. Spurious NVNT n20 2462MHz Ref



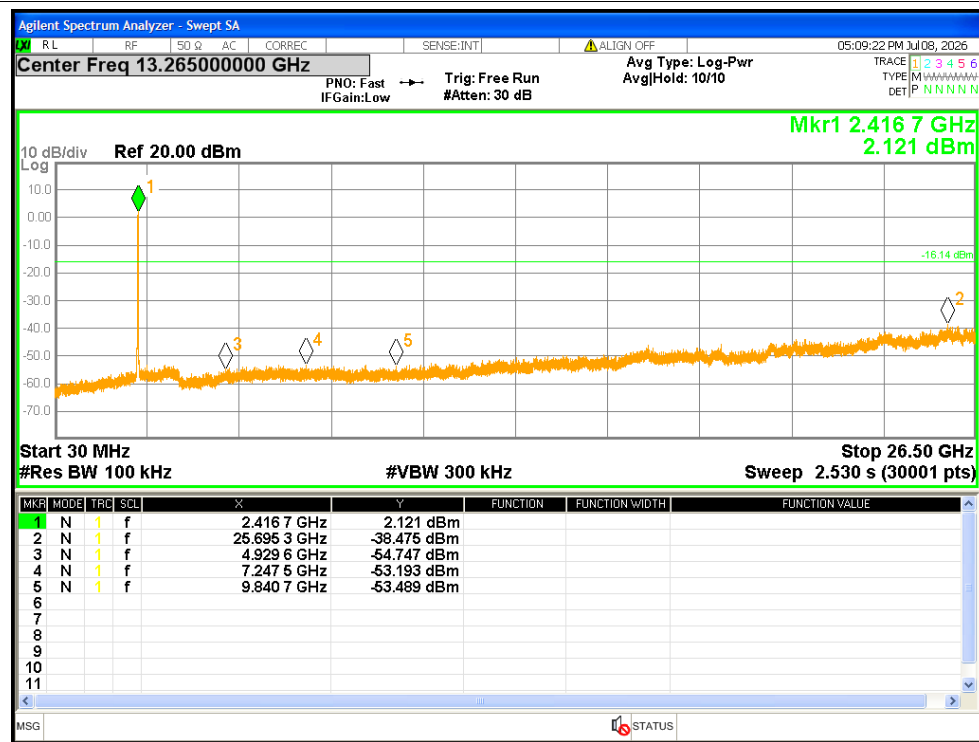
Tx. Spurious NVNT n20 2462MHz Emission



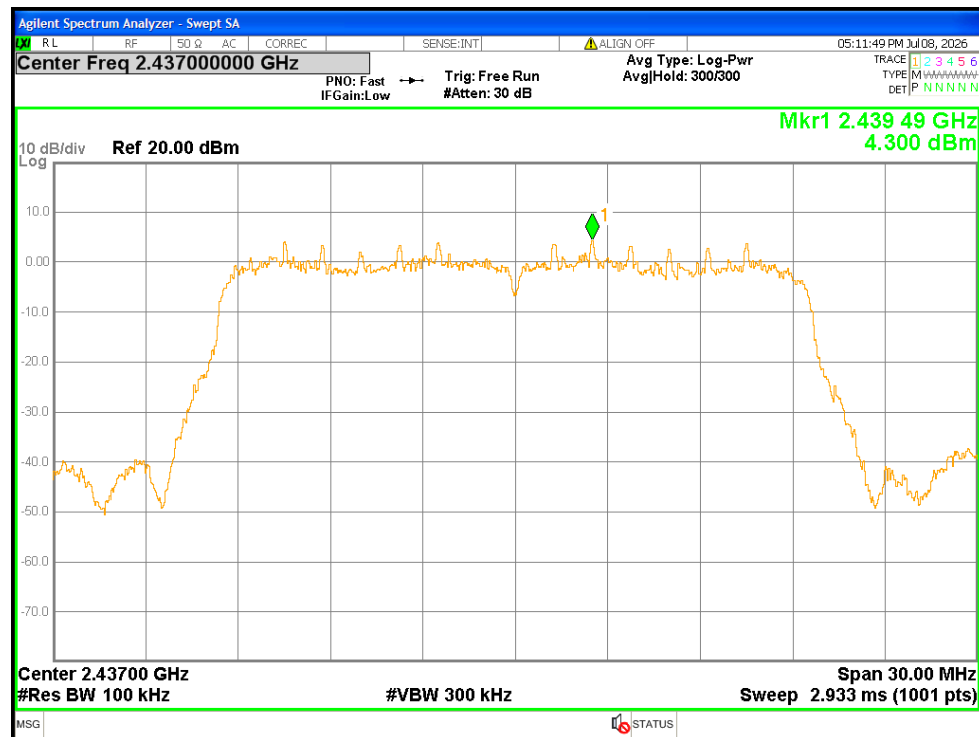
Tx. Spurious NVNT ax20 2412MHz Ref



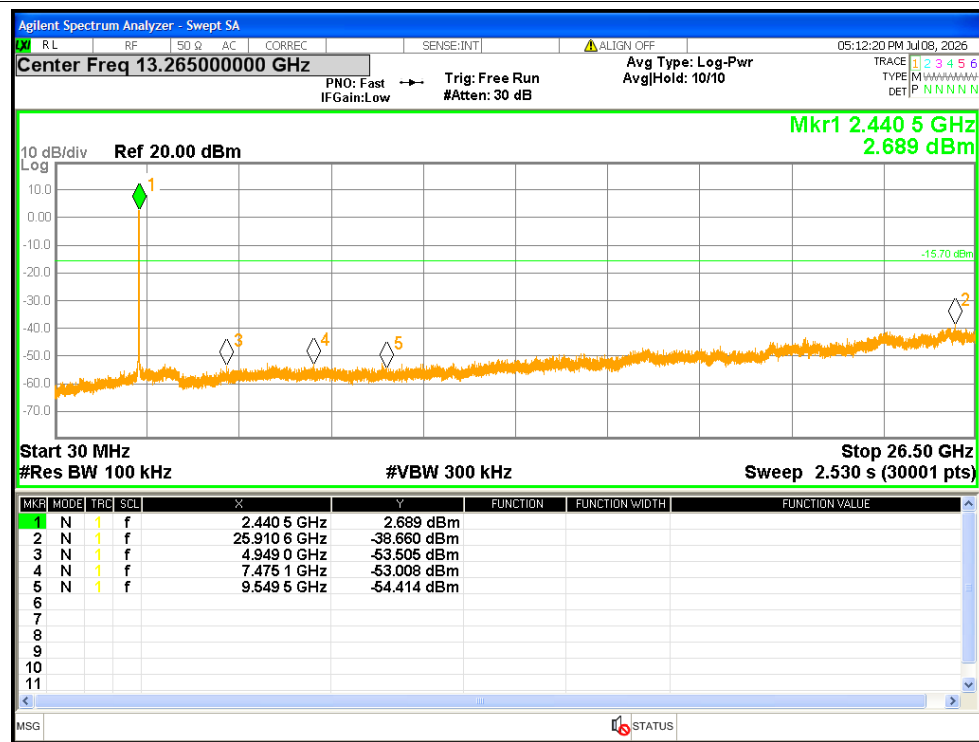
Tx. Spurious NVNT ax20 2412MHz Emission



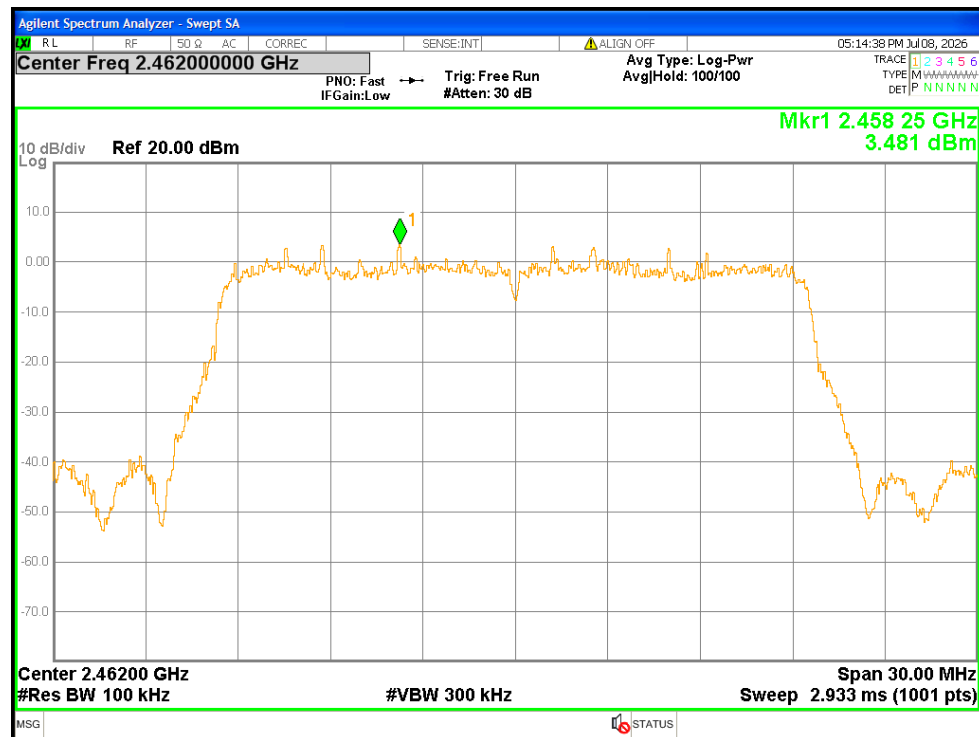
Tx. Spurious NVNT ax20 2437MHz Ref



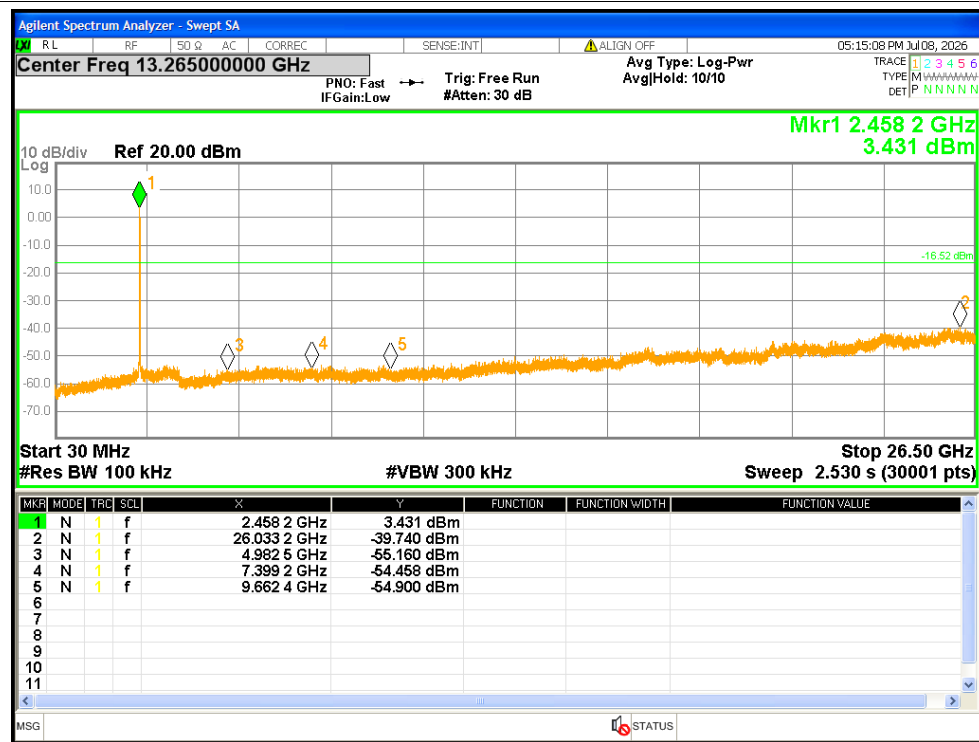
Tx. Spurious NVNT ax20 2437MHz Emission



Tx. Spurious NVNT ax20 2462MHz Ref



Tx. Spurious NVNT ax20 2462MHz Emission



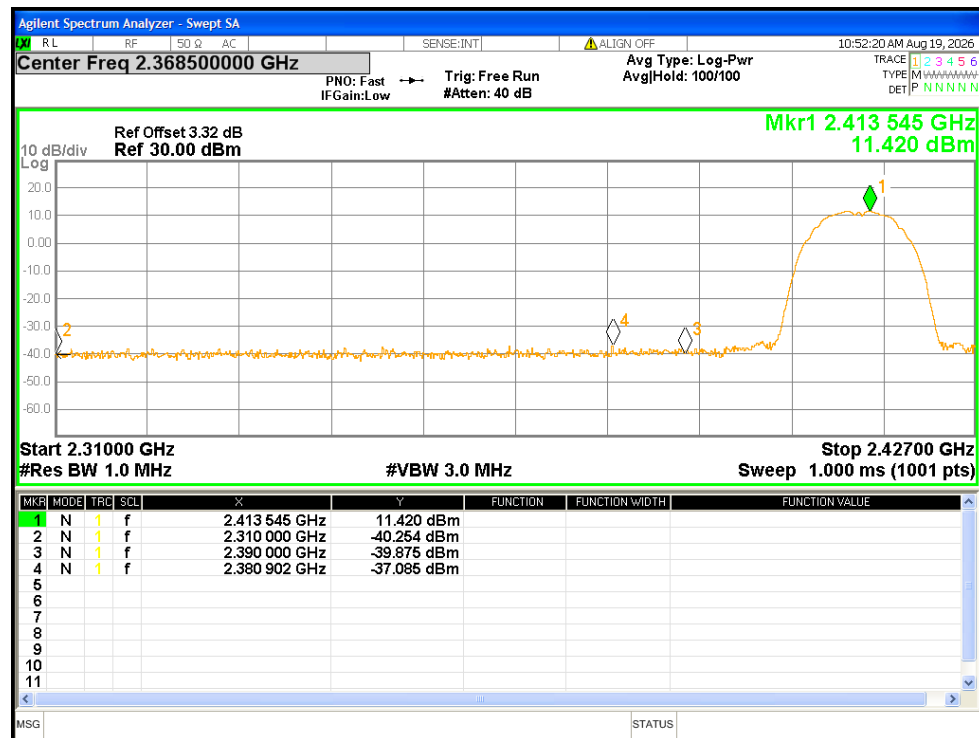
Restrict Band

Mode	Frequency (MHz)	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
b	2412	2310	-40.25	2.49	0	57.5	Peak	<=74	Pass
b	2412	2310	-48.33	2.49	0.01	49.43	Average	<=54	Pass
b	2412	2380.902	-37.08	2.49	0	60.67	Peak	<=74	Pass
b	2412	2385.816	-46.45	2.49	0.01	51.31	Average	<=54	Pass
b	2412	2390	-39.87	2.49	0	57.88	Peak	<=74	Pass
b	2412	2390	-47.61	2.49	0.01	50.15	Average	<=54	Pass
b	2462	2483.5	-40.14	2.49	0	57.61	Peak	<=74	Pass
b	2462	2483.5	-47.19	2.49	0.01	50.57	Average	<=54	Pass
b	2462	2489.188	-36.4	2.49	0	61.35	Peak	<=74	Pass
b	2462	2487.545	-46.26	2.49	0.01	51.5	Average	<=54	Pass
b	2462	2500	-40.91	2.49	0	56.84	Peak	<=74	Pass
b	2462	2500	-46.64	2.49	0.01	51.12	Average	<=54	Pass
g	2412	2310	-40.3	2.49	0	57.45	Peak	<=74	Pass
g	2412	2310	-48.73	2.49	0.05	49.07	Average	<=54	Pass
g	2412	2388.624	-36.49	2.49	0	61.26	Peak	<=74	Pass
g	2412	2382.774	-47.36	2.49	0.05	50.44	Average	<=54	Pass
g	2412	2390	-40.23	2.49	0	57.52	Peak	<=74	Pass
g	2412	2390	-47.71	2.49	0.05	50.09	Average	<=54	Pass
g	2462	2483.5	-38.93	2.49	0	58.82	Peak	<=74	Pass
g	2462	2483.5	-47.54	2.49	0.05	50.26	Average	<=54	Pass
g	2462	2490.566	-36.16	2.49	0	61.59	Peak	<=74	Pass
g	2462	2484.047	-46.68	2.49	0.05	51.12	Average	<=54	Pass
g	2462	2500	-39.7	2.49	0	58.05	Peak	<=74	Pass
g	2462	2500	-46.83	2.49	0.05	50.97	Average	<=54	Pass
n20	2412	2310	-39.34	2.49	0	58.41	Peak	<=74	Pass
n20	2412	2310	-48.28	2.49	0.05	49.52	Average	<=54	Pass
n20	2412	2356.449	-37.6	2.49	0	60.15	Peak	<=74	Pass
n20	2412	2388.156	-47.03	2.49	0.05	50.77	Average	<=54	Pass
n20	2412	2390	-40.6	2.49	0	57.15	Peak	<=74	Pass
n20	2412	2390	-47.68	2.49	0.05	50.12	Average	<=54	Pass
n20	2462	2483.5	-39.13	2.49	0	58.62	Peak	<=74	Pass
n20	2462	2483.5	-47.26	2.49	0.04	50.53	Average	<=54	Pass
n20	2462	2491.626	-36.4	2.49	0	61.35	Peak	<=74	Pass
n20	2462	2499.947	-46.33	2.49	0.04	51.46	Average	<=54	Pass
n20	2462	2500	-40.54	2.49	0	57.21	Peak	<=74	Pass
n20	2462	2500	-47.5	2.49	0.04	50.29	Average	<=54	Pass
ax20	2412	2310	-40.01	2.49	0	57.74	Peak	<=74	Pass
ax20	2412	2310	-48.18	2.49	0.07	49.64	Average	<=54	Pass
ax20	2412	2384.997	-36.41	2.49	0	61.34	Peak	<=74	Pass

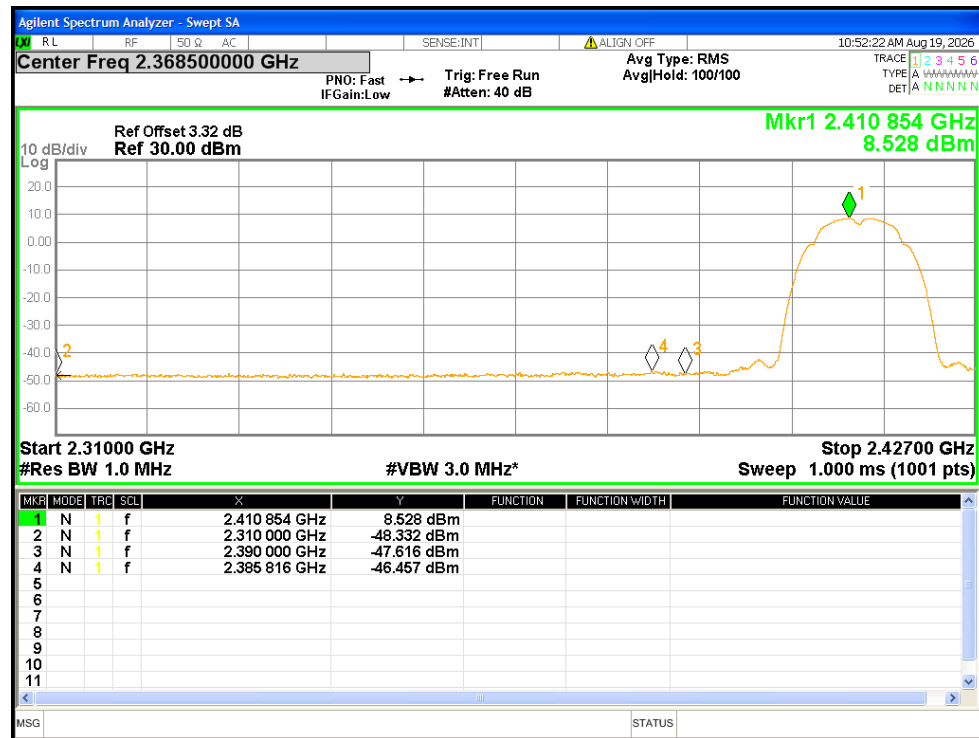
ax20	2412	2386.986	-47.09	2.49	0.07	50.73	Average	<=54	Pass
ax20	2412	2390	-39.11	2.49	0	58.64	Peak	<=74	Pass
ax20	2412	2390	-47.66	2.49	0.07	50.16	Average	<=54	Pass
ax20	2462	2483.5	-37.47	2.49	0	60.28	Peak	<=74	Pass
ax20	2462	2483.5	-47.57	2.49	0.06	50.24	Average	<=54	Pass
ax20	2462	2485.372	-36.14	2.49	0	61.61	Peak	<=74	Pass
ax20	2462	2490.195	-46.59	2.49	0.06	51.22	Average	<=54	Pass
ax20	2462	2500	-38.66	2.49	0	59.09	Peak	<=74	Pass
ax20	2462	2500	-47.47	2.49	0.06	50.34	Average	<=54	Pass

Test Graphs

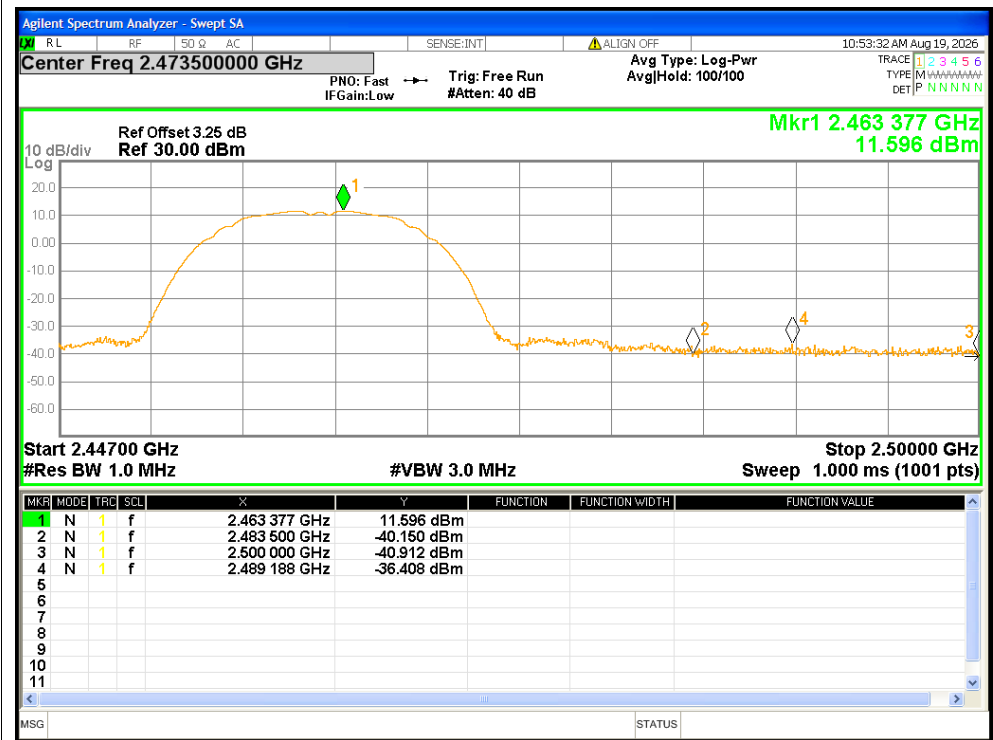
Restrict Band NVNT b 2412MHz Peak



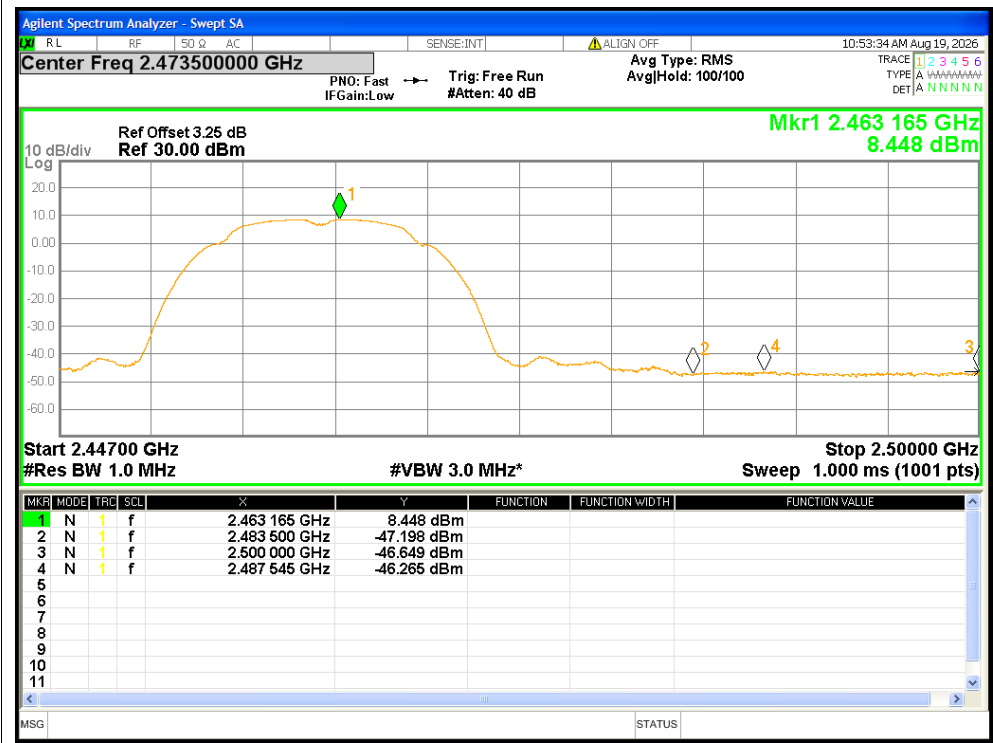
Restrict Band NVNT b 2412MHz Average



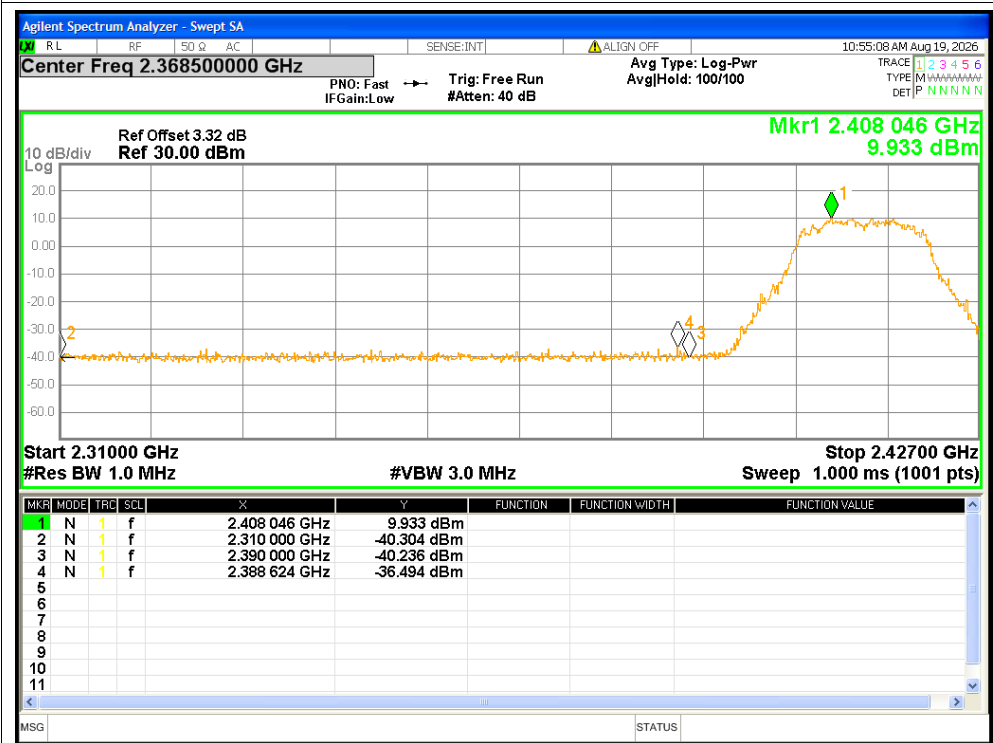
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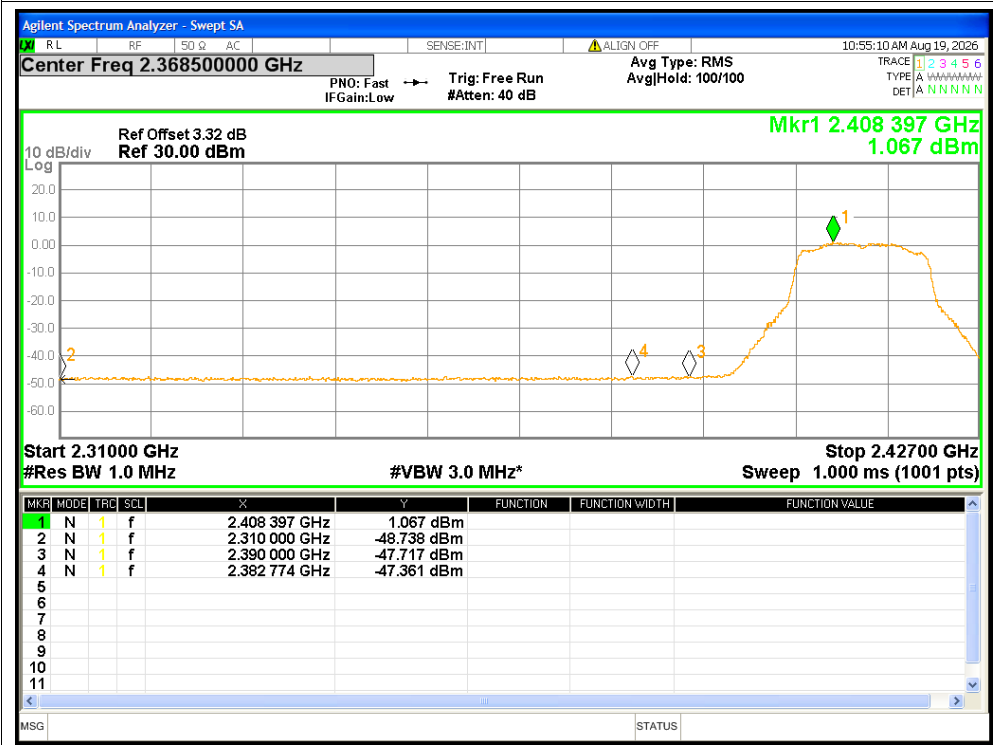
Restrict Band NVNT b 2462MHz Average



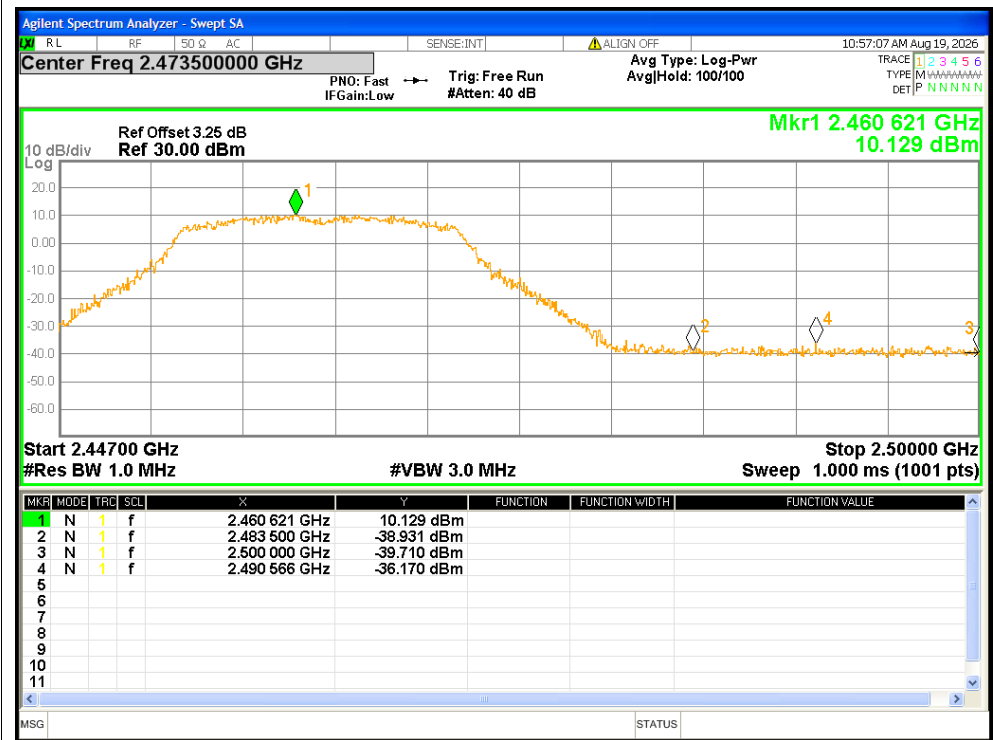
Restrict Band NVNT g 2412MHz Peak



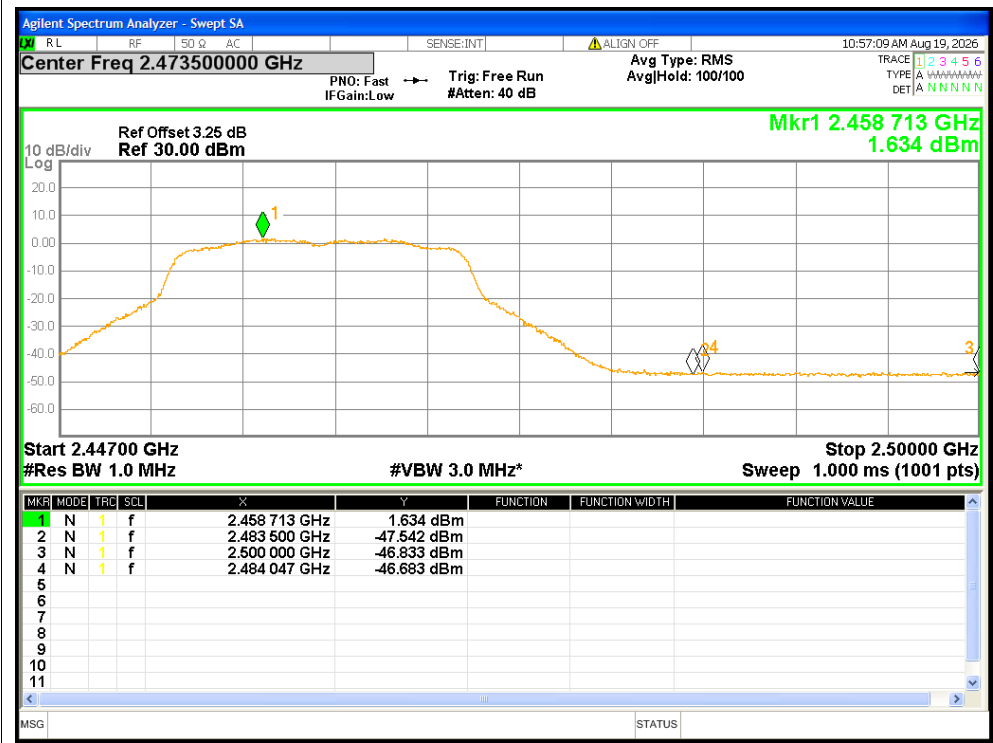
Restrict Band NVNT g 2412MHz Average



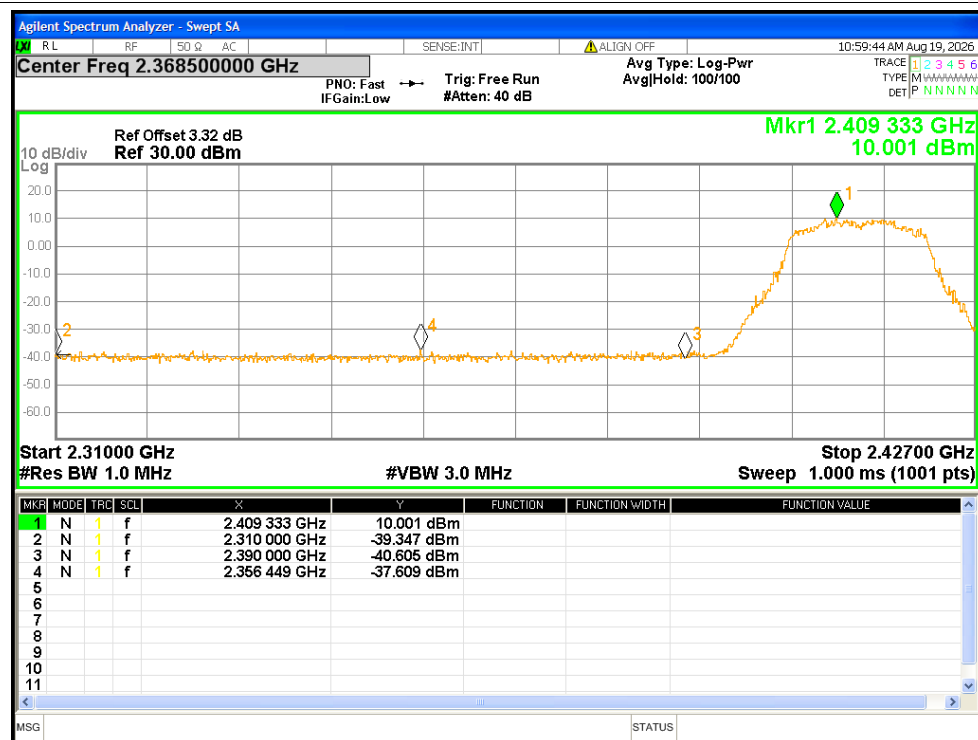
Restrict Band NVNT g 2462MHz Peak



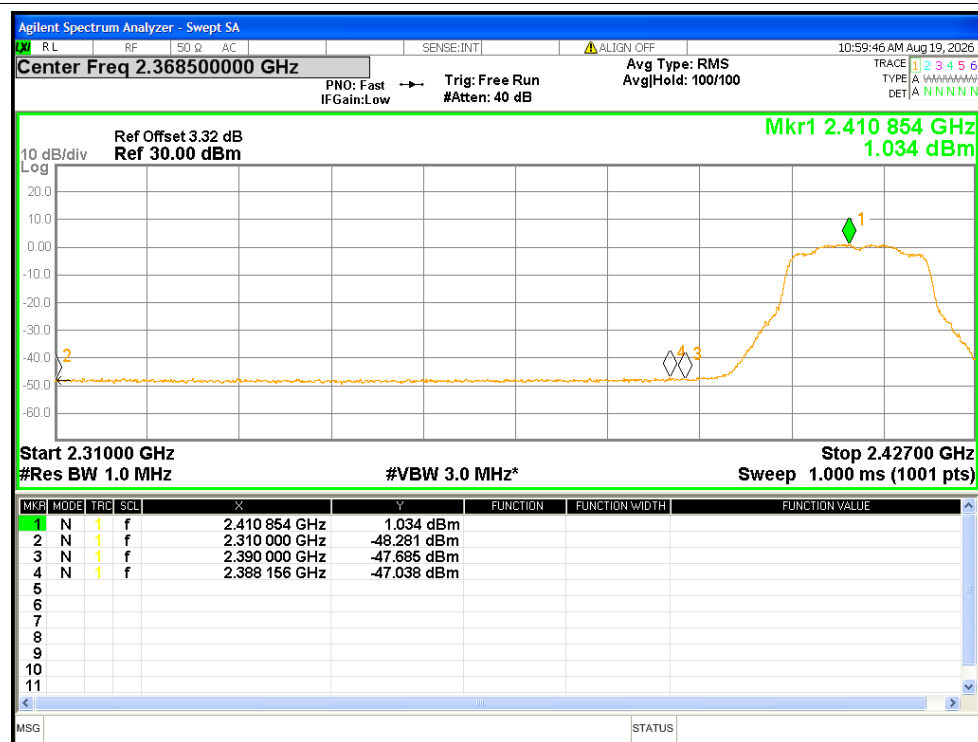
Restrict Band NVNT g 2462MHz Average



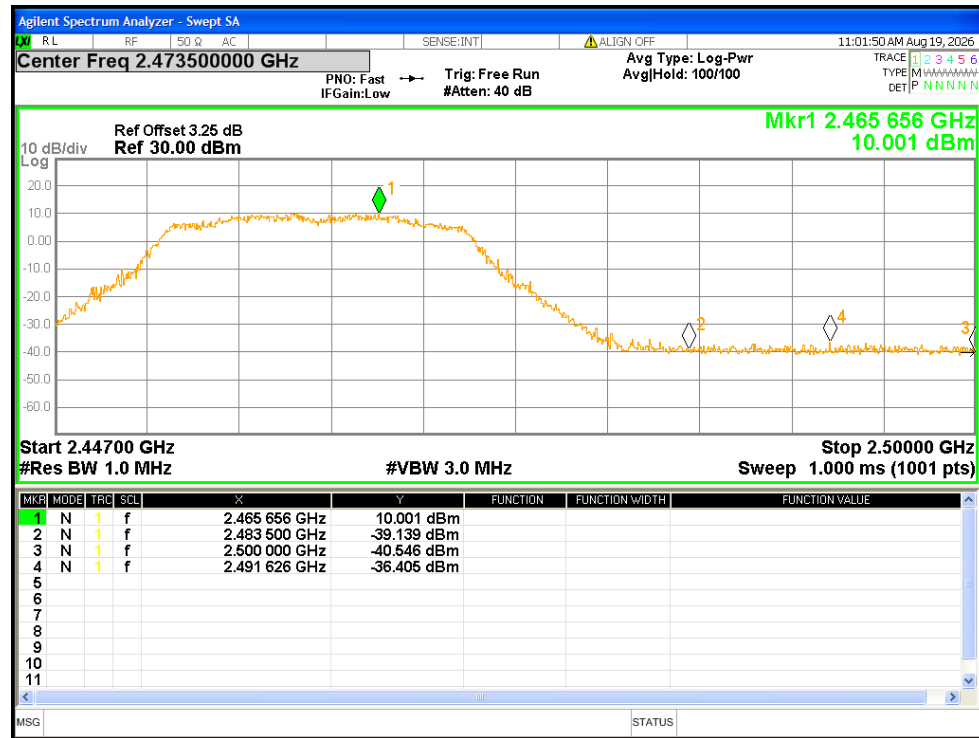
Restrict Band NVNT n20 2412MHz Peak



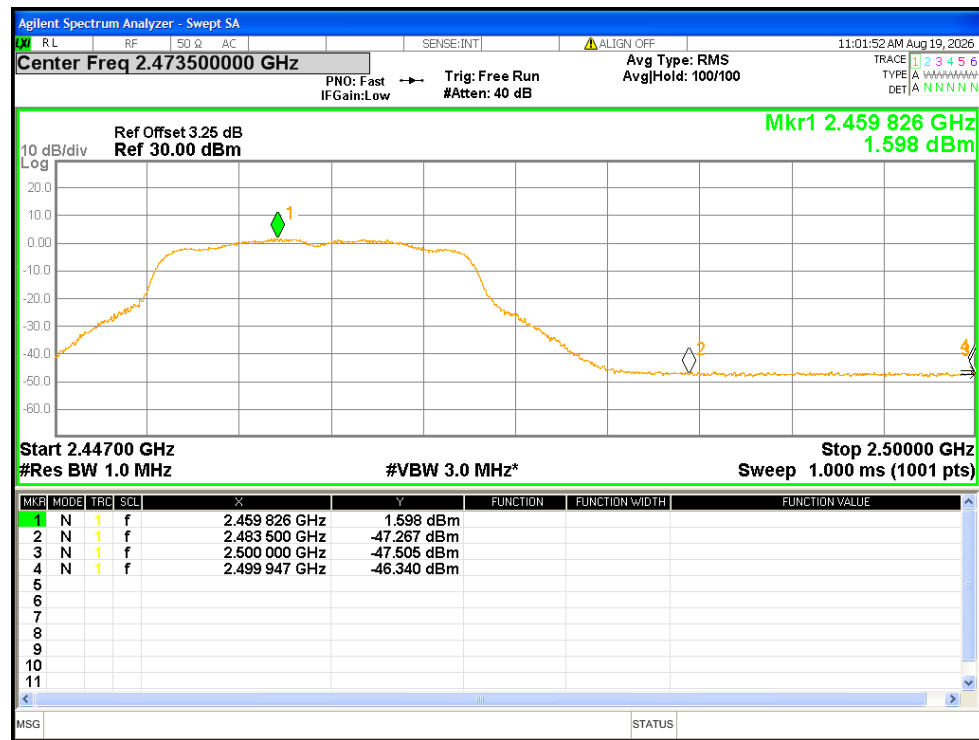
Restrict Band NVNT n20 2412MHz Average



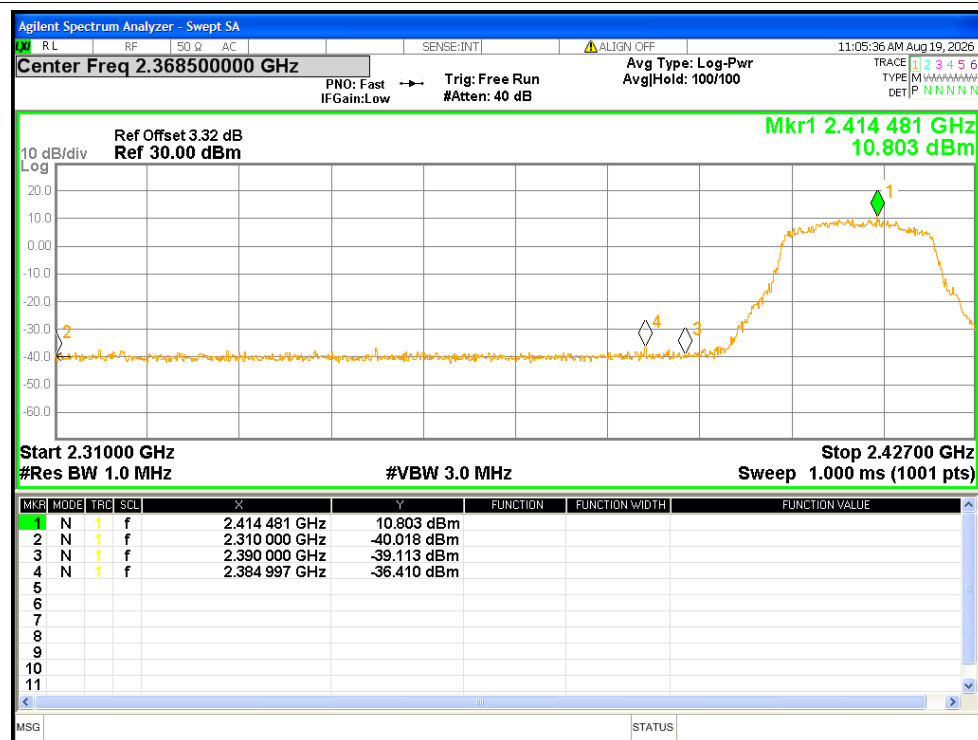
Restrict Band NVNT n20 2462MHz Peak



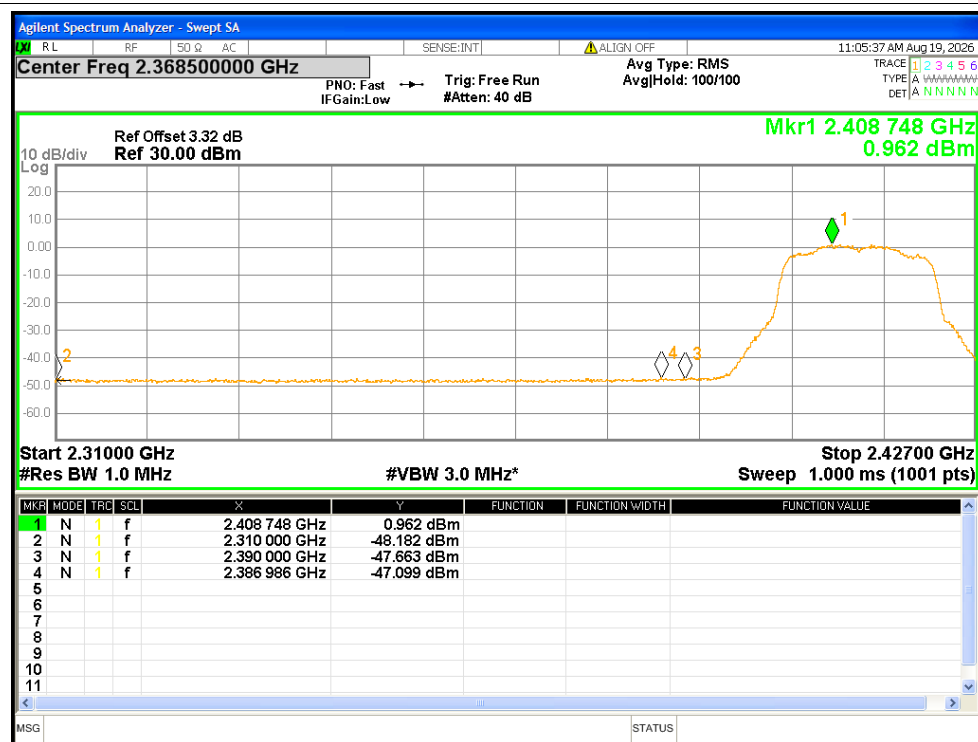
Restrict Band NVNT n20 2462MHz Average



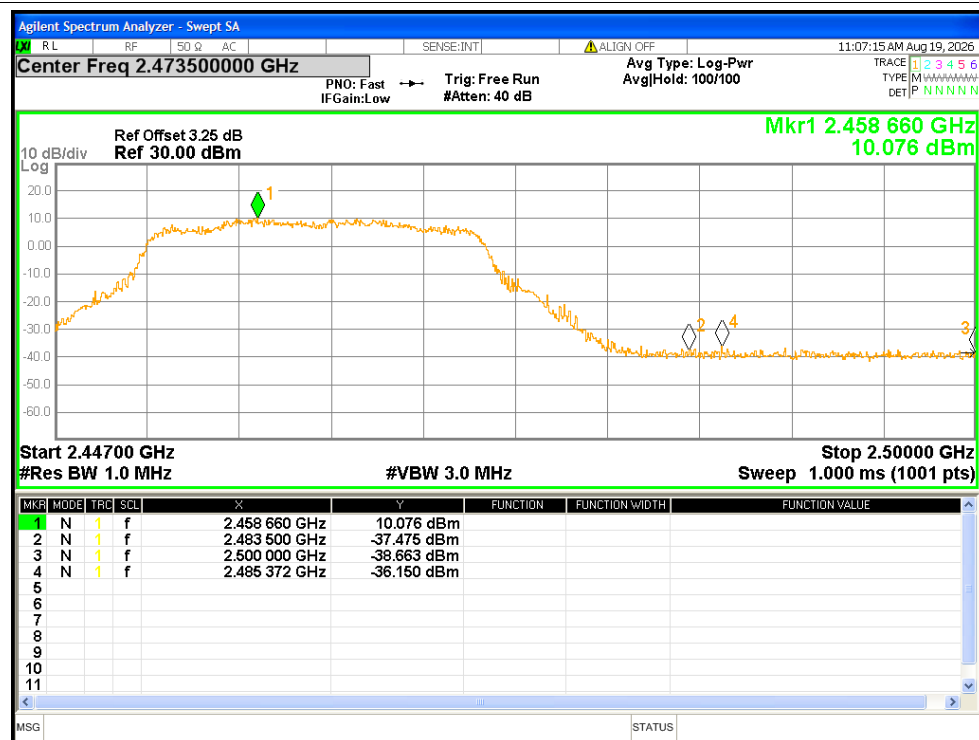
Restrict Band NVNT ax20 2412MHz Peak



Restrict Band NVNT ax20 2412MHz Average



Restrict Band NVNT ax20 2462MHz Peak



Restrict Band NVNT ax20 2462MHz Average

