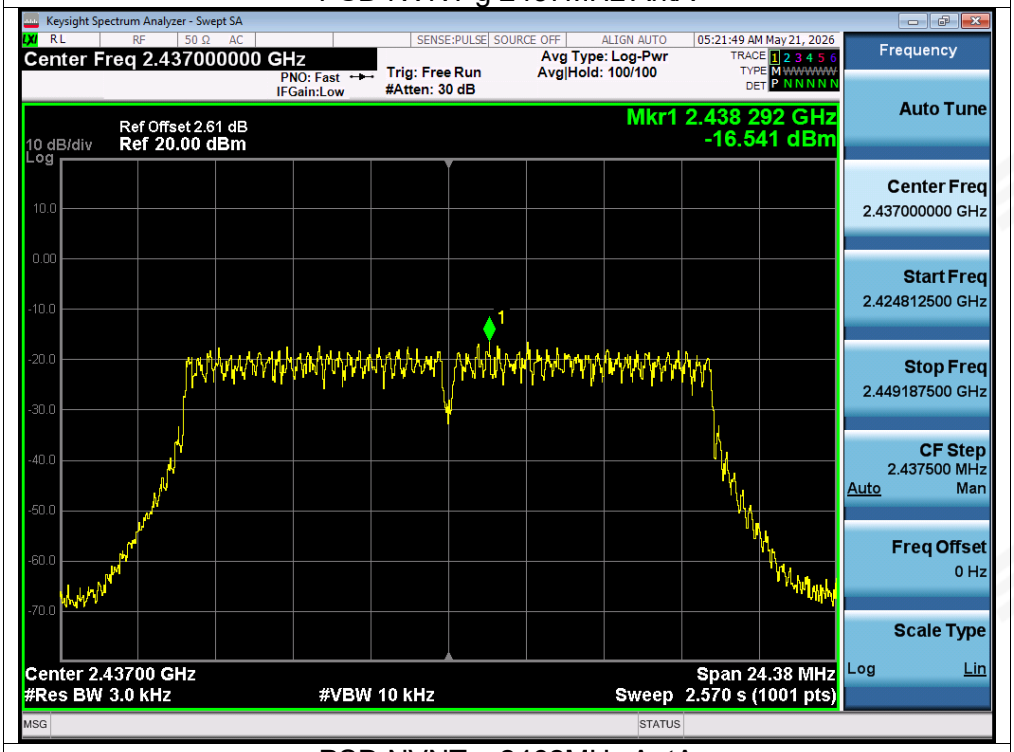
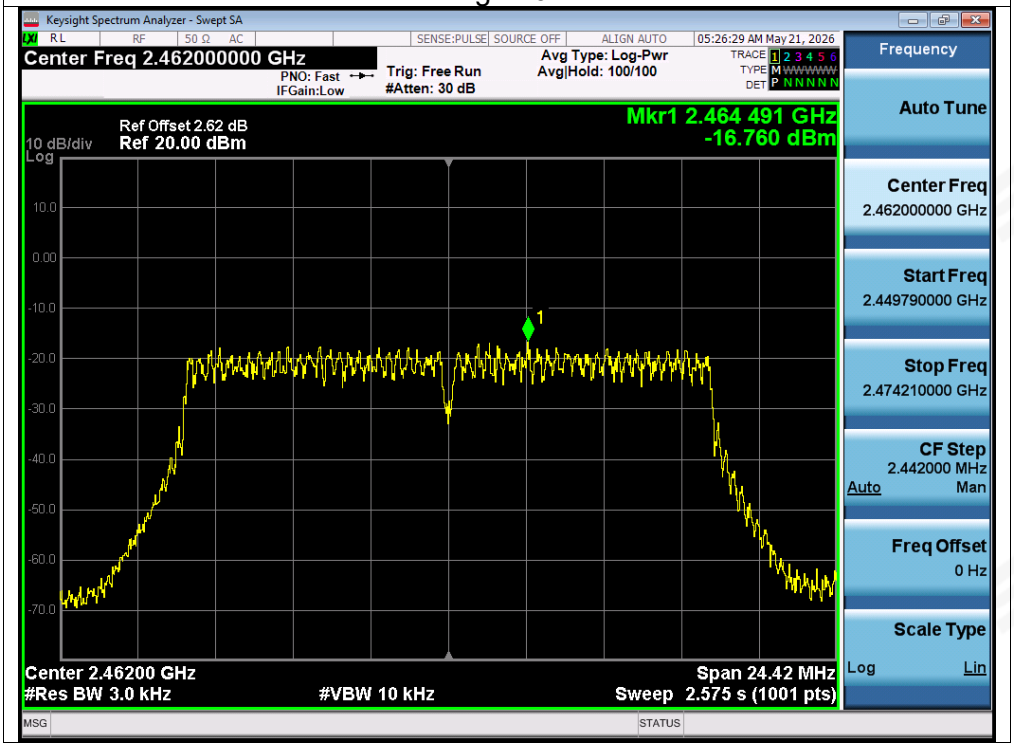
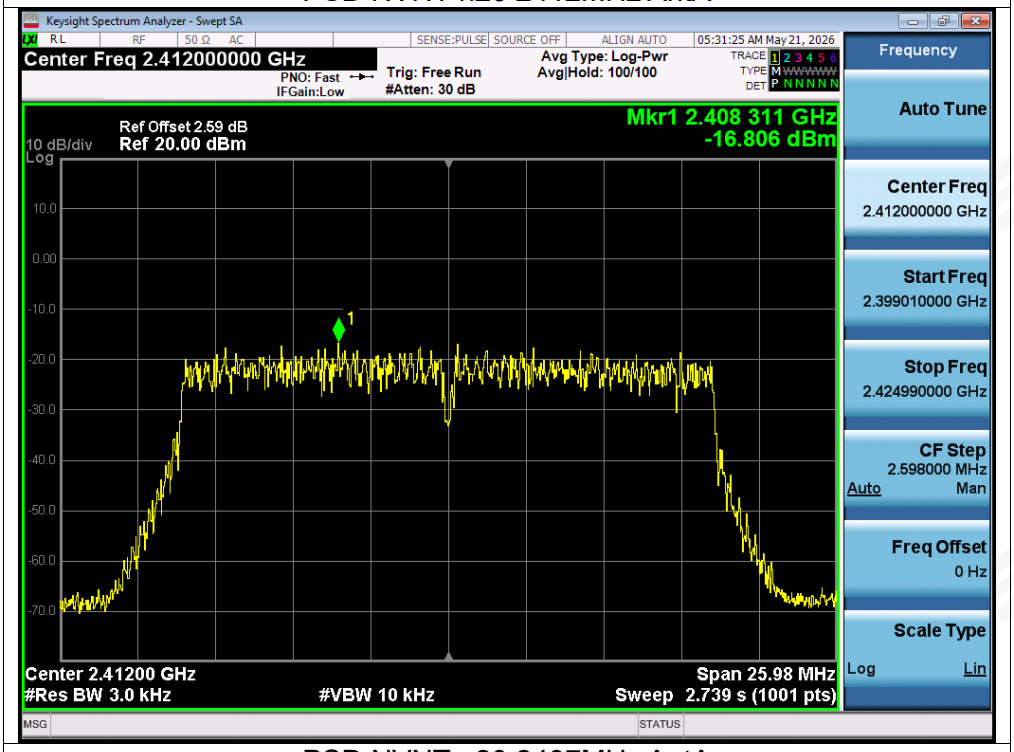
PSD NVNT g 2437MHz AntA



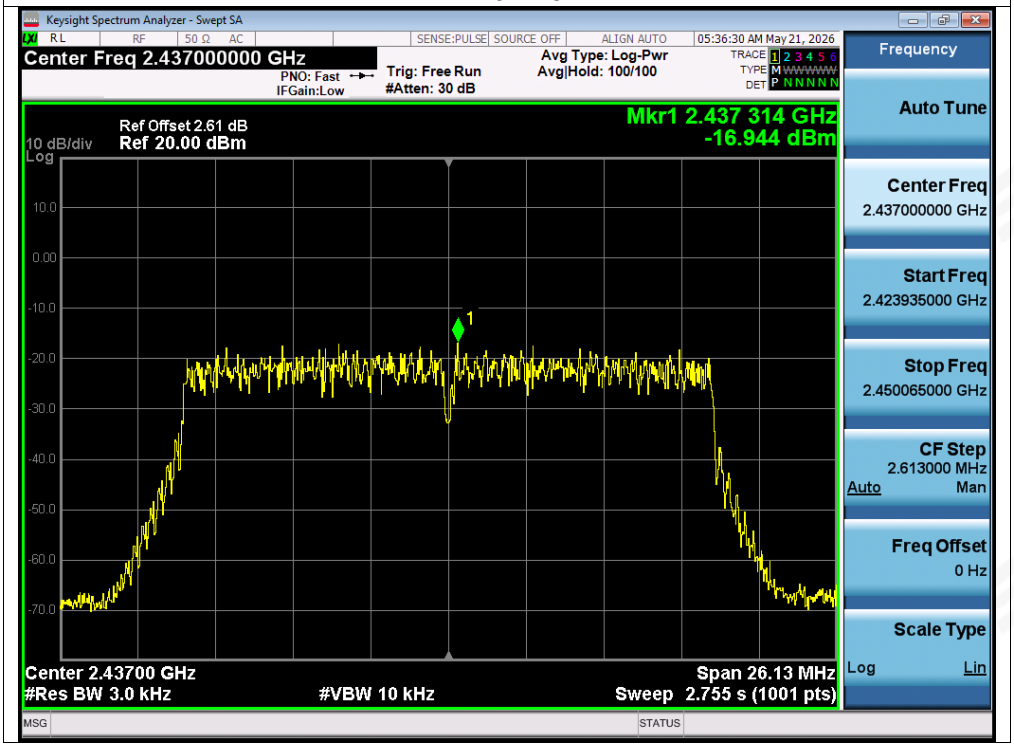
PSD NVNT g 2462MHz AntA



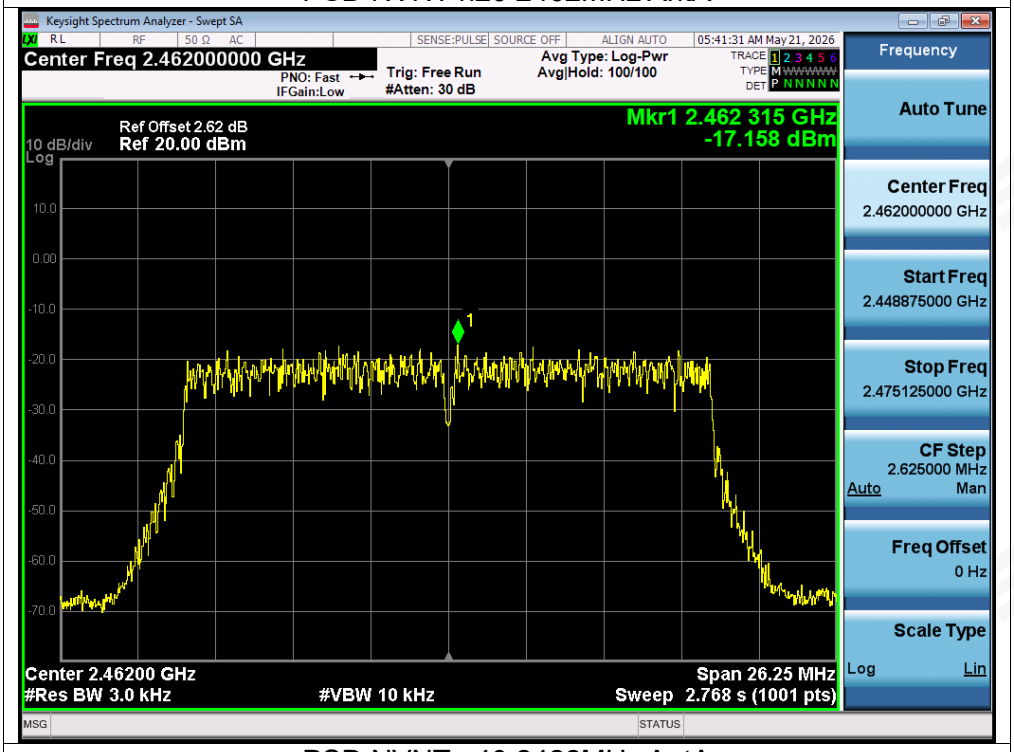
PSD NVNT n20 2412MHz AntA



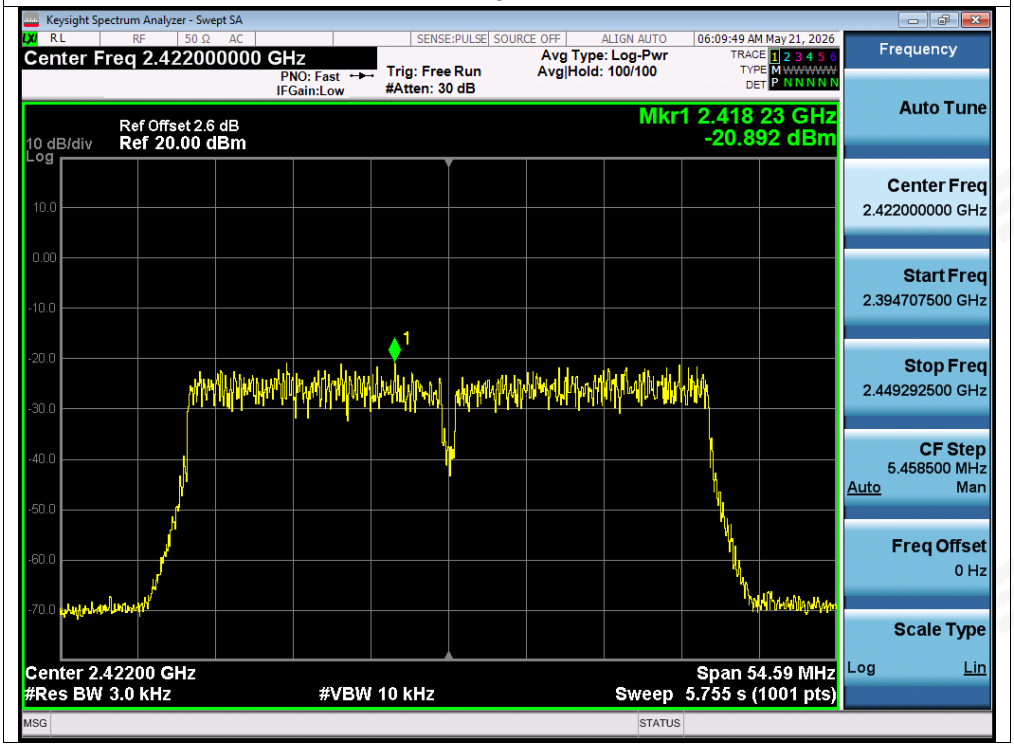
PSD NVNT n20 2437MHz AntA



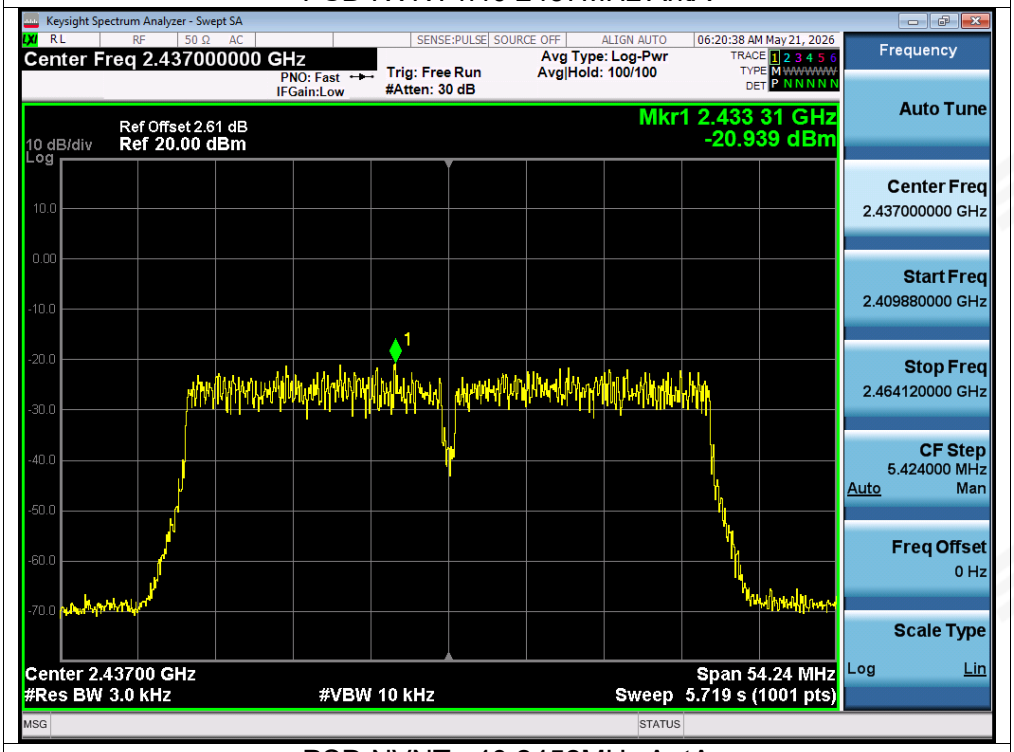
PSD NVNT n20 2462MHz AntA



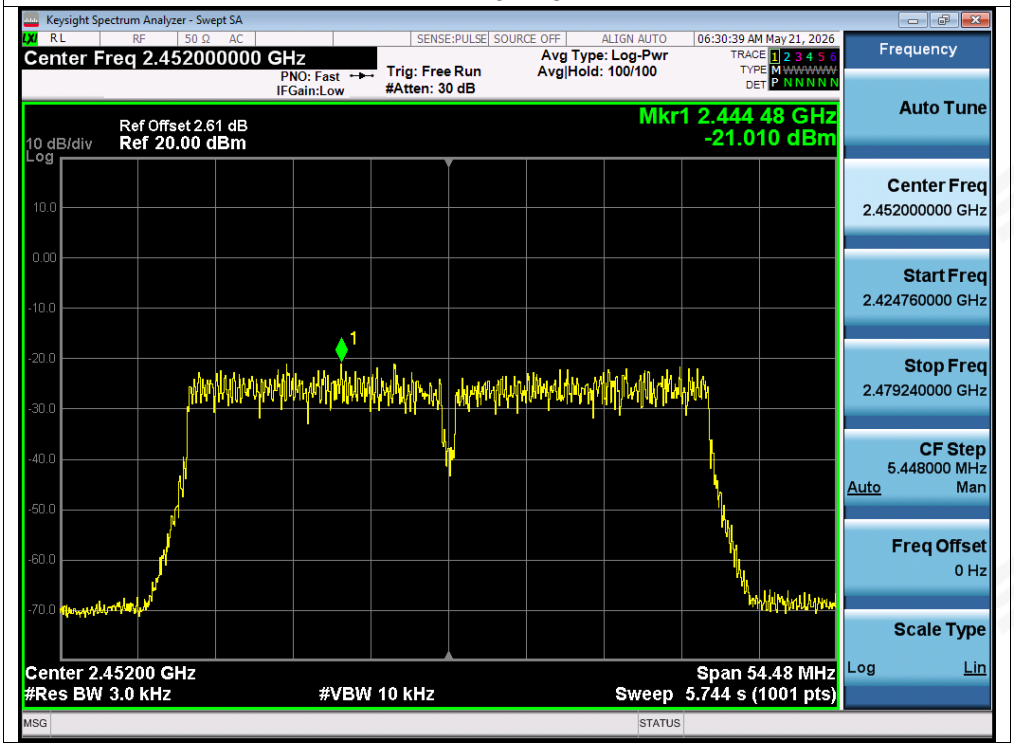
PSD NVNT n40 2422MHz AntA



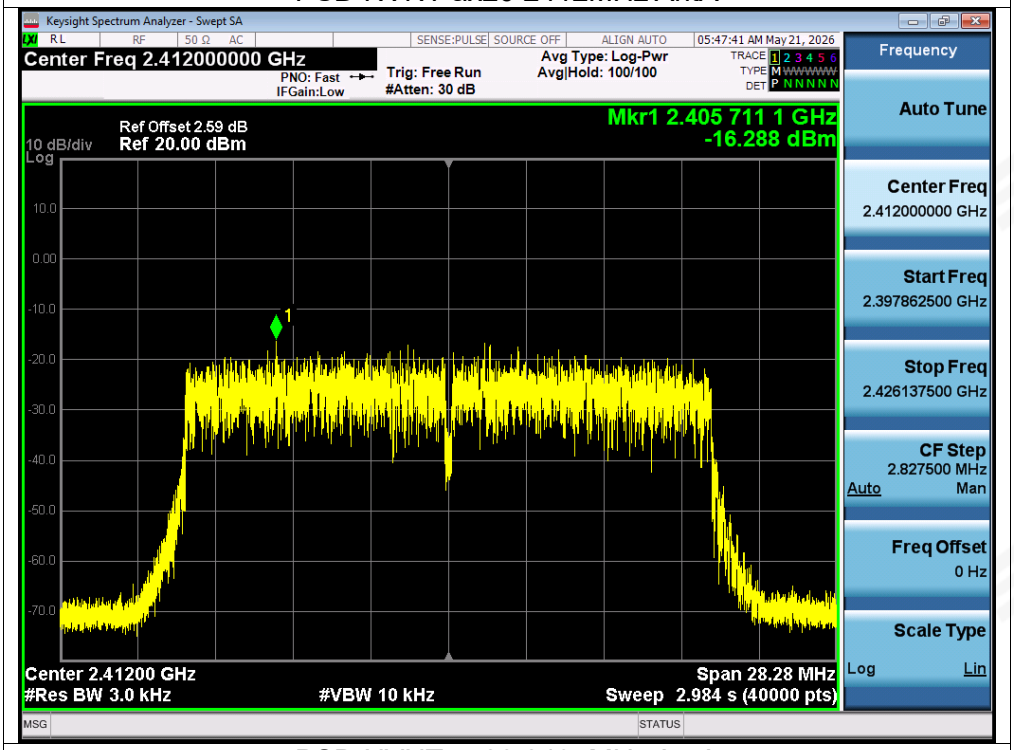
PSD NVNT n40 2437MHz AntA



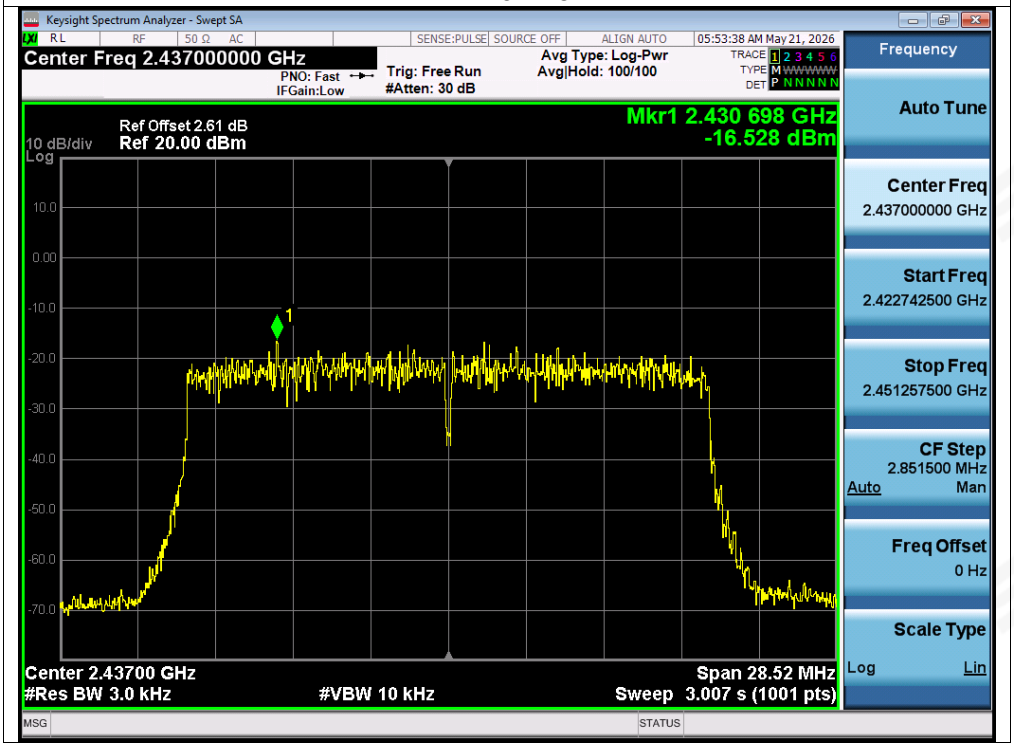
PSD NVNT n40 2452MHz AntA



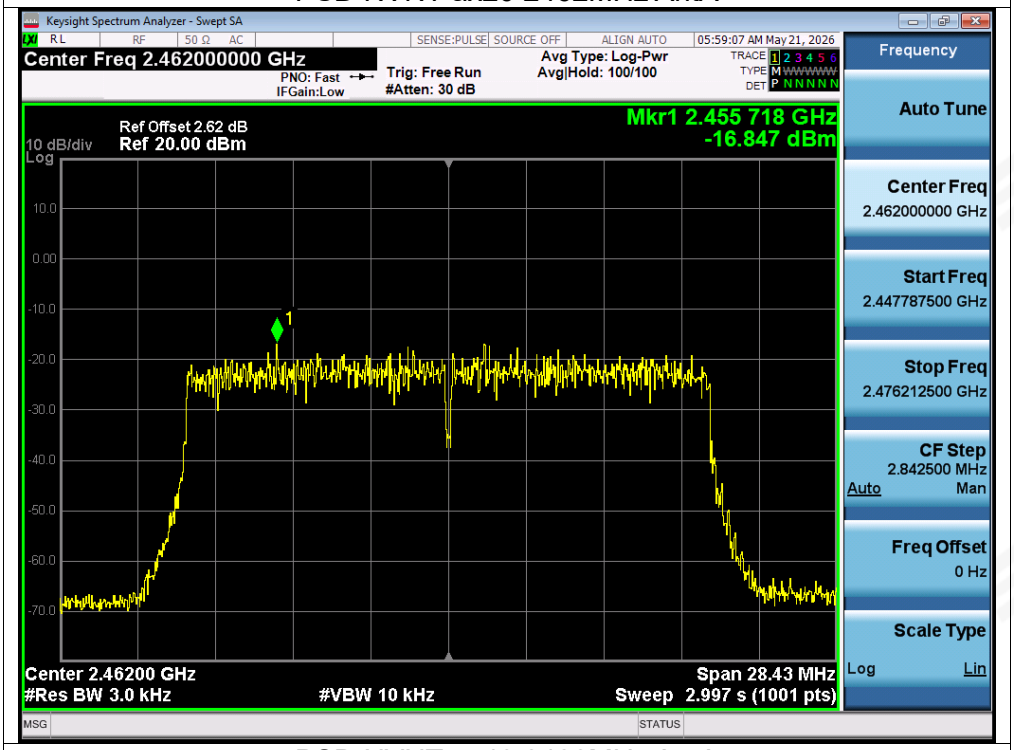
PSD NVNT ax20 2412MHz AntA



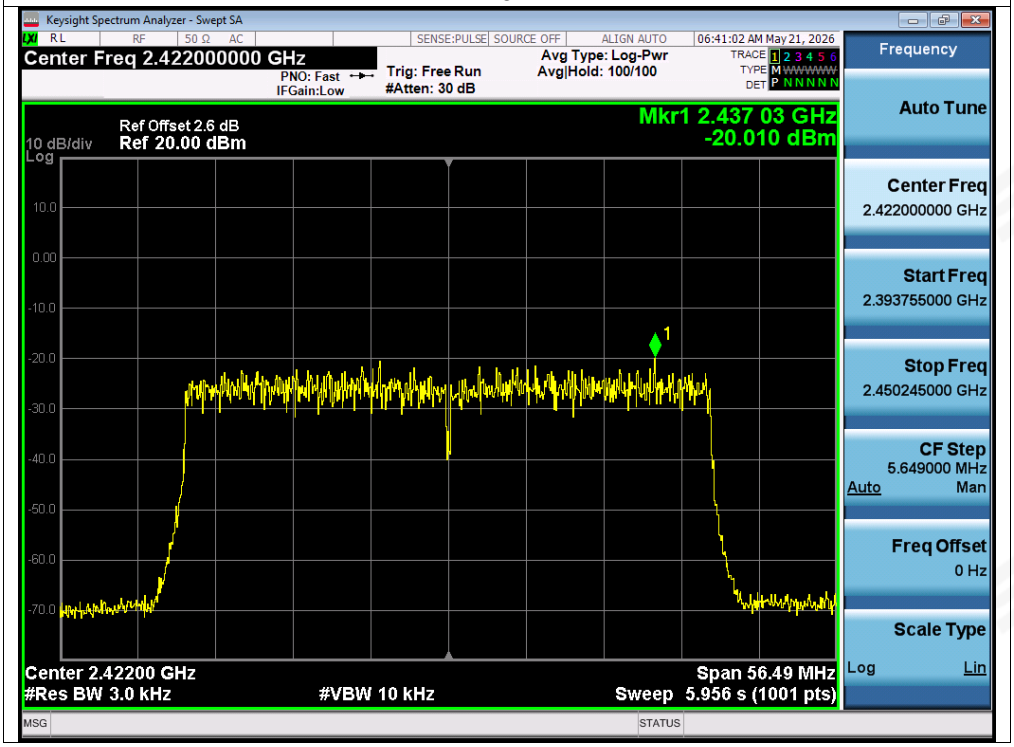
PSD NVNT ax20 2437MHz AntA



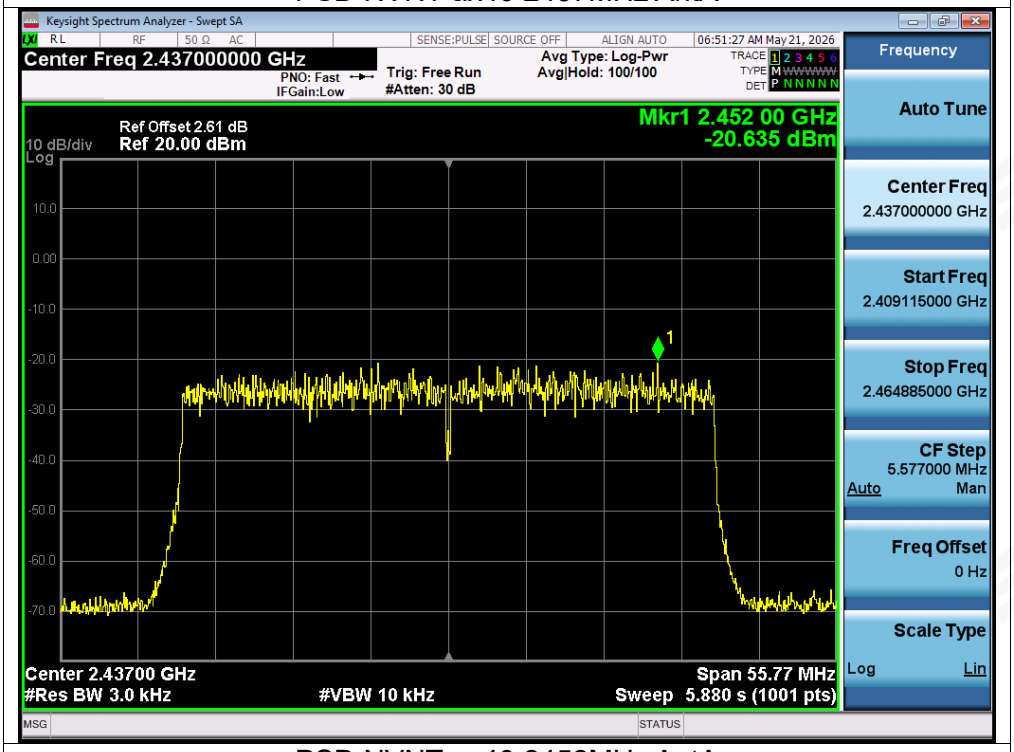
PSD NVNT ax20 2462MHz AntA



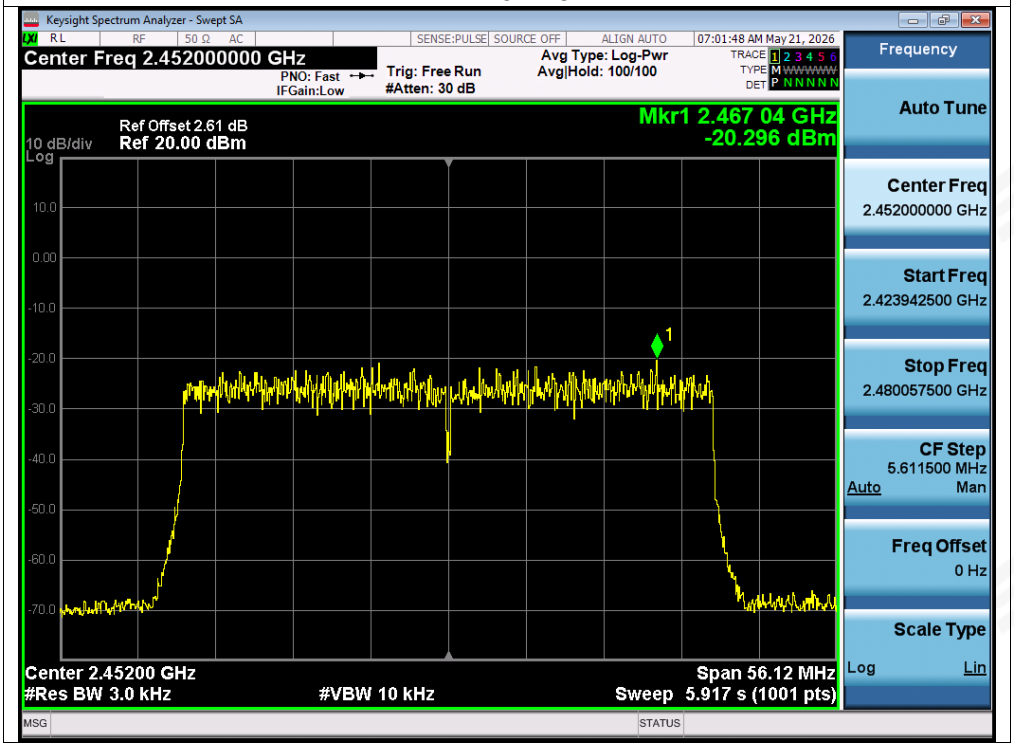
PSD NVNT ax40 2422MHz AntA



PSD NVNT ax40 2437MHz AntA



PSD NVNT ax40 2452MHz AntA

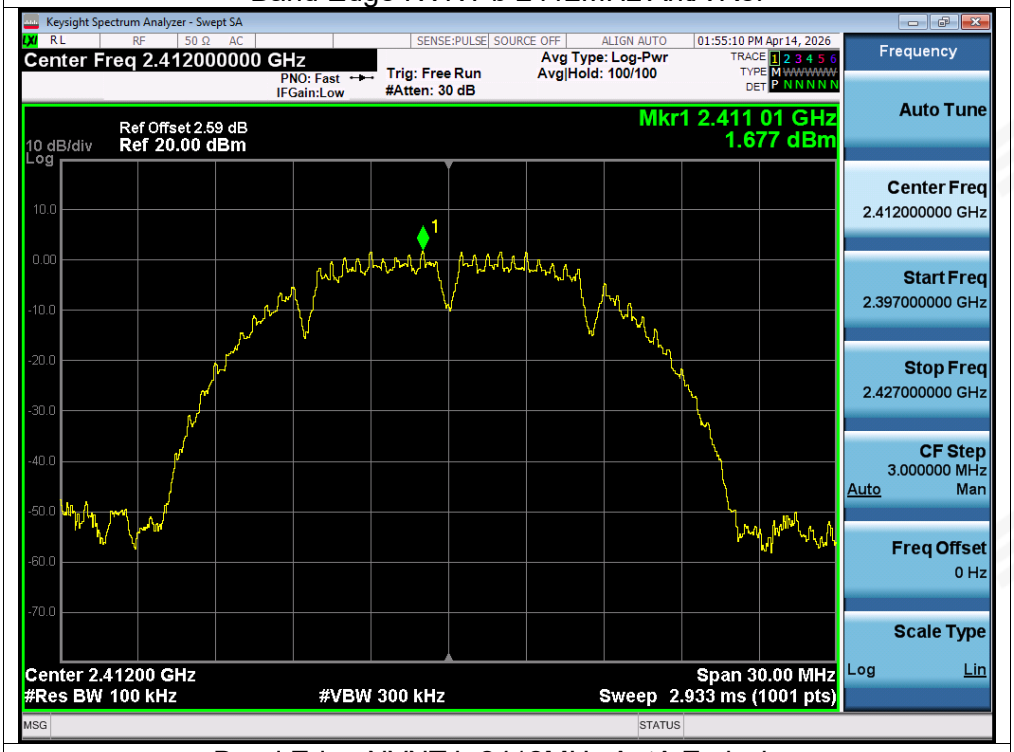


Band Edge

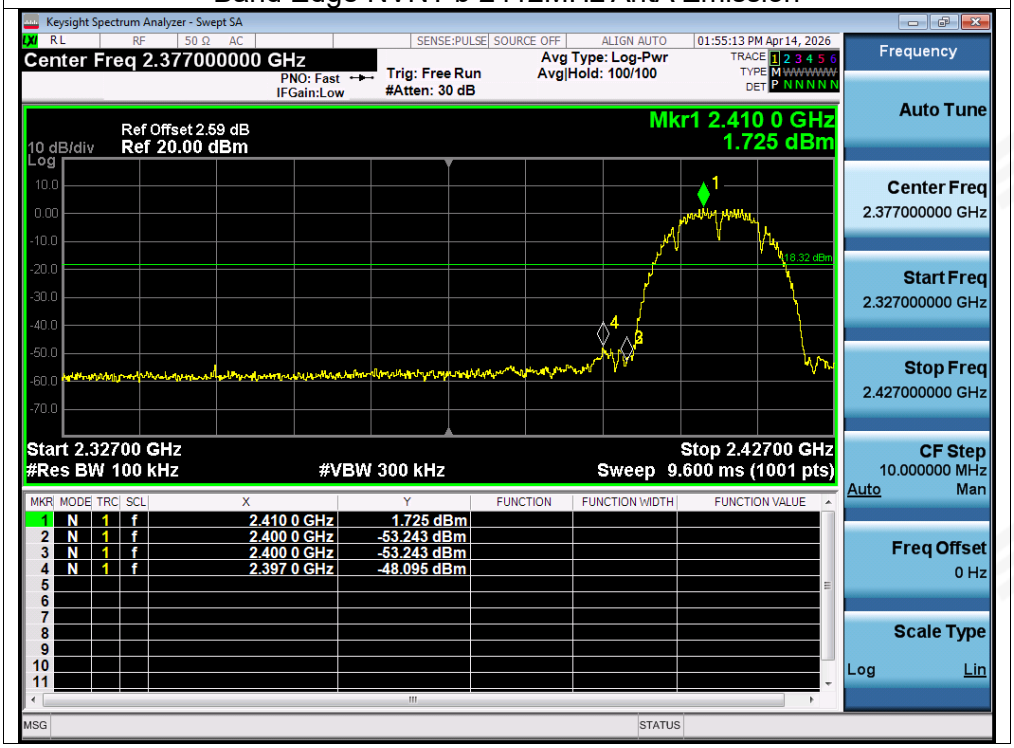
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	AntA	-49.77	-20	Pass
		2462		-56.17	-20	Pass
	g	2412		-51.24	-20	Pass
		2462		-49.82	-20	Pass
	n20	2412		-50.94	-20	Pass
		2462		-50.97	-20	Pass
	n40	2422		-47.3	-20	Pass
		2452		-45.4	-20	Pass
	ax20	2412		-46.05	-20	Pass
		2462		-49.49	-20	Pass
	ax40	2422		-47.39	-20	Pass
		2452		-45.25	-20	Pass

Test Graphs

Band Edge NVNT b 2412MHz AntA Ref

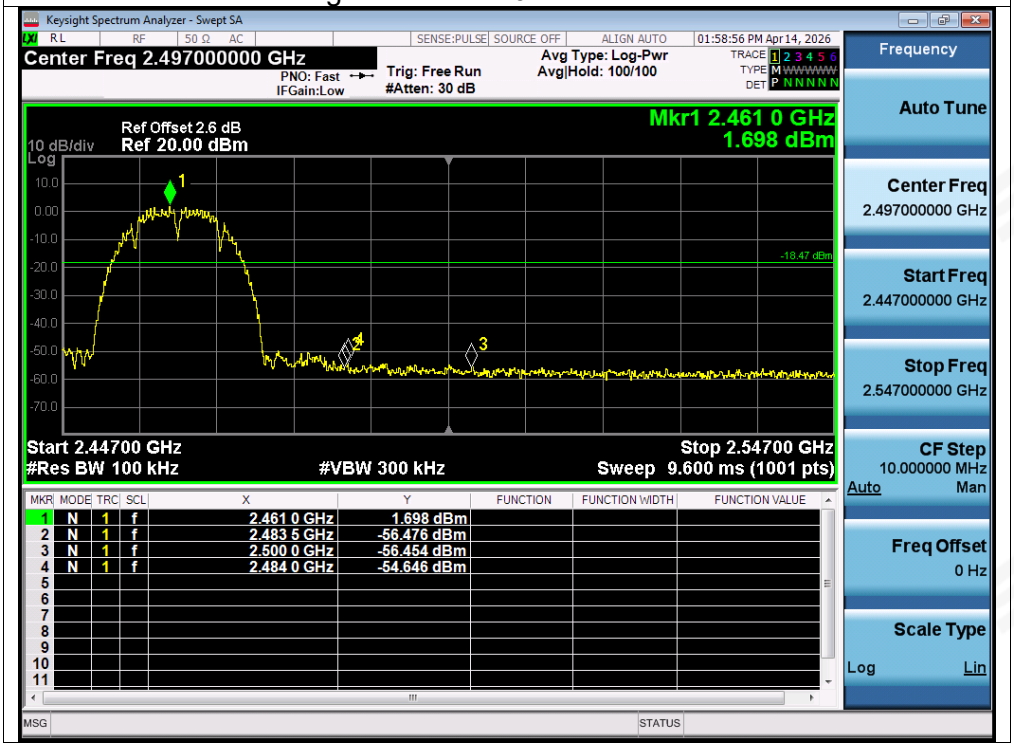


Band Edge NVNT b 2412MHz AntA Emission

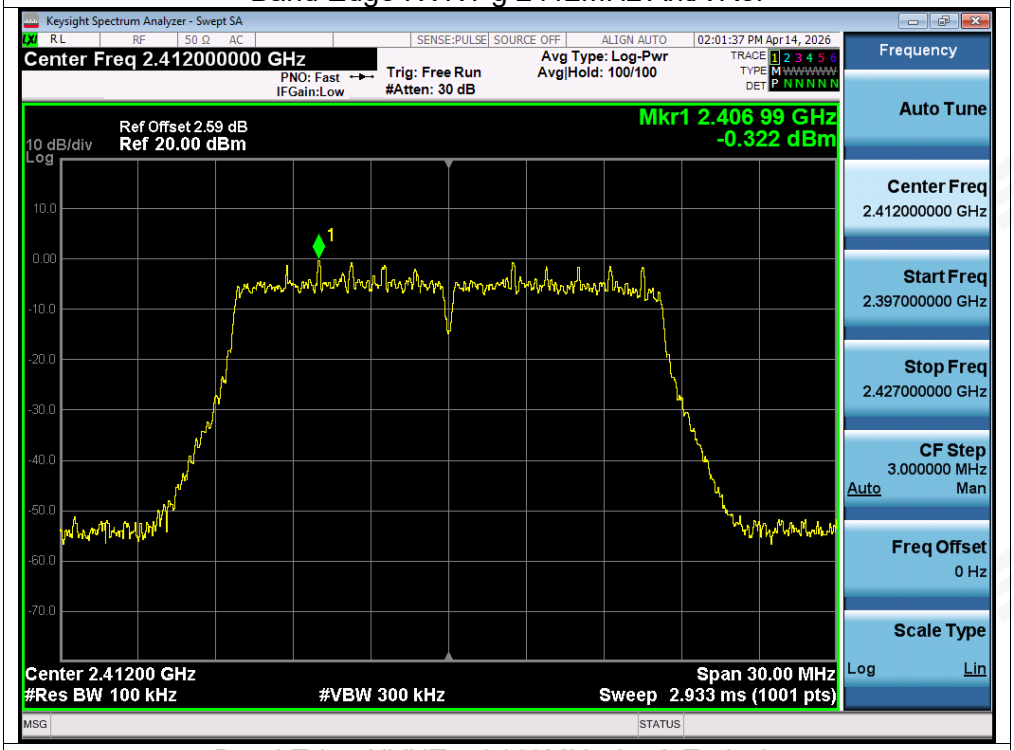


Band Edge NVNT b 2462MHz AntA Ref

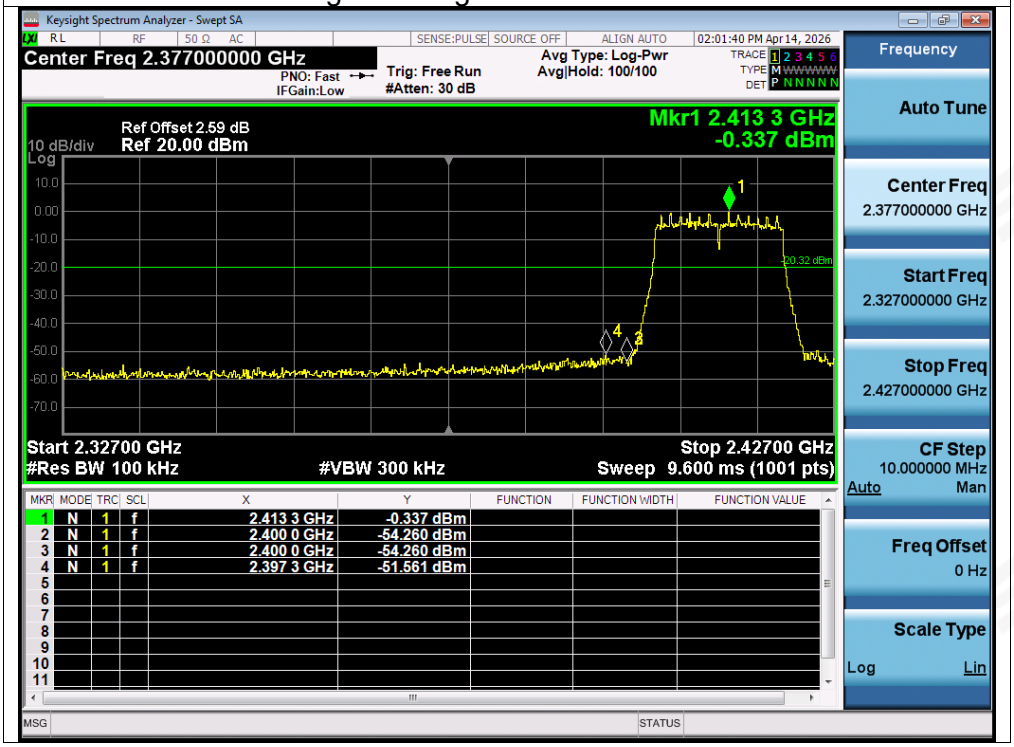
Band Edge NVNT b 2462MHz AntA Emission



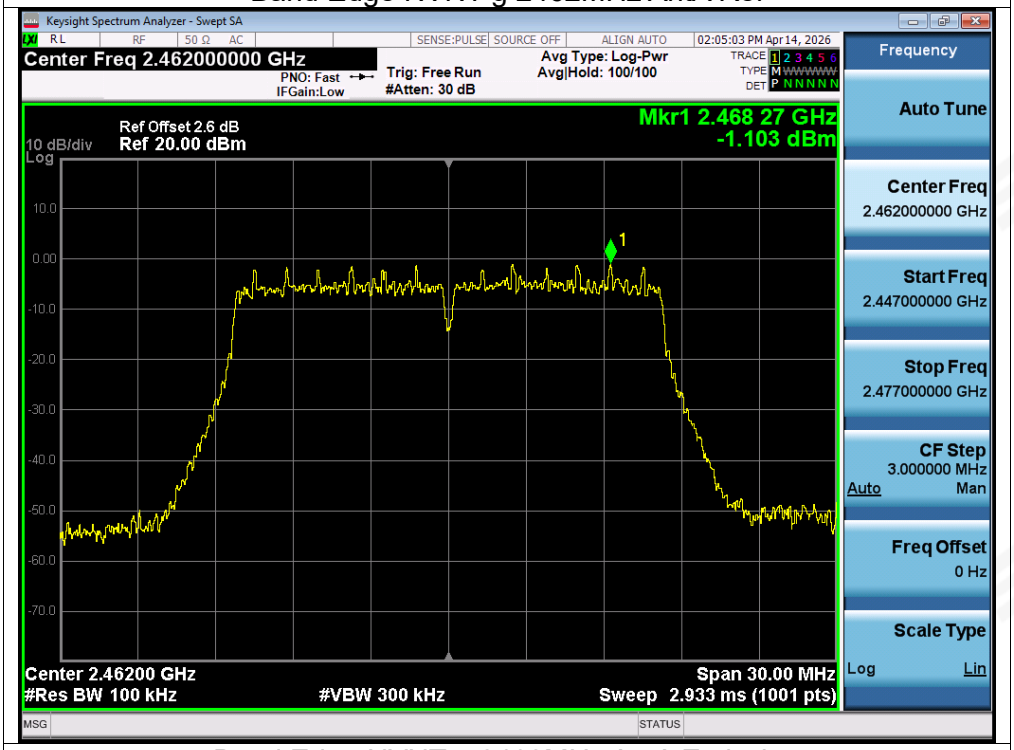
Band Edge NVNT g 2412MHz AntA Ref



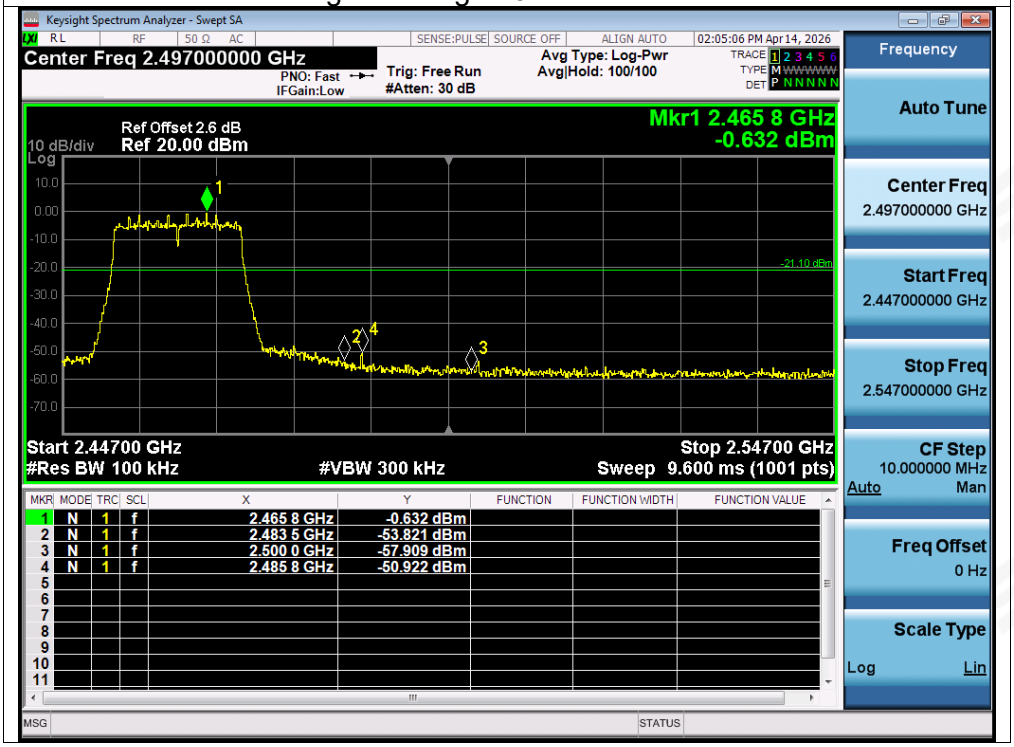
Band Edge NVNT g 2412MHz AntA Emission



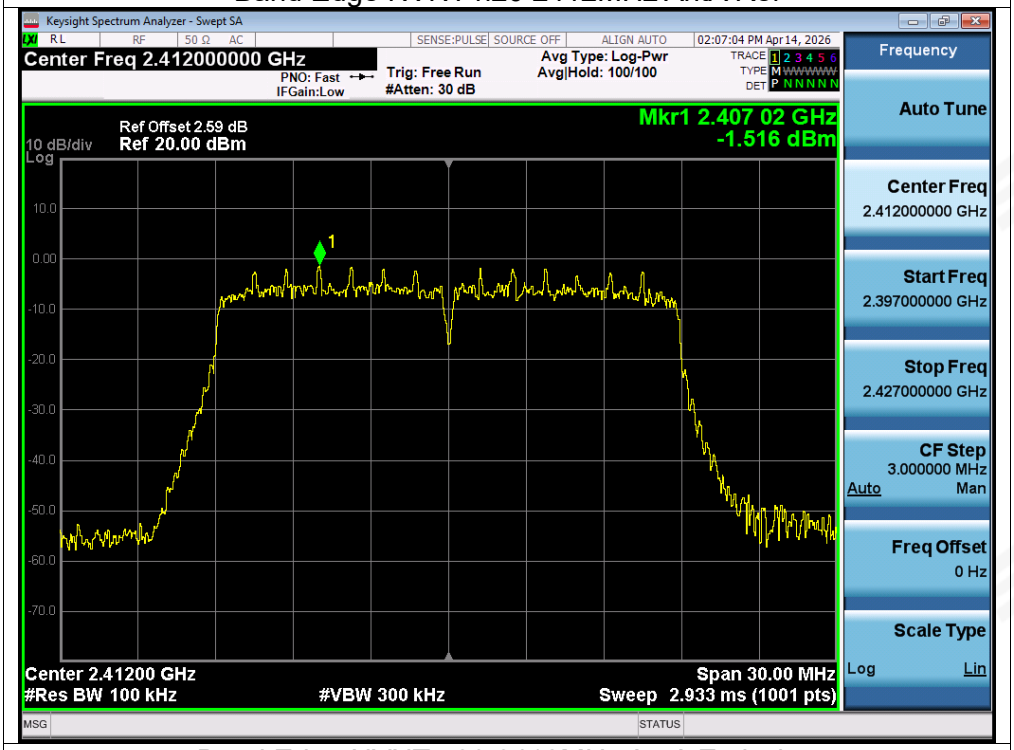
Band Edge NVNT g 2462MHz AntA Ref



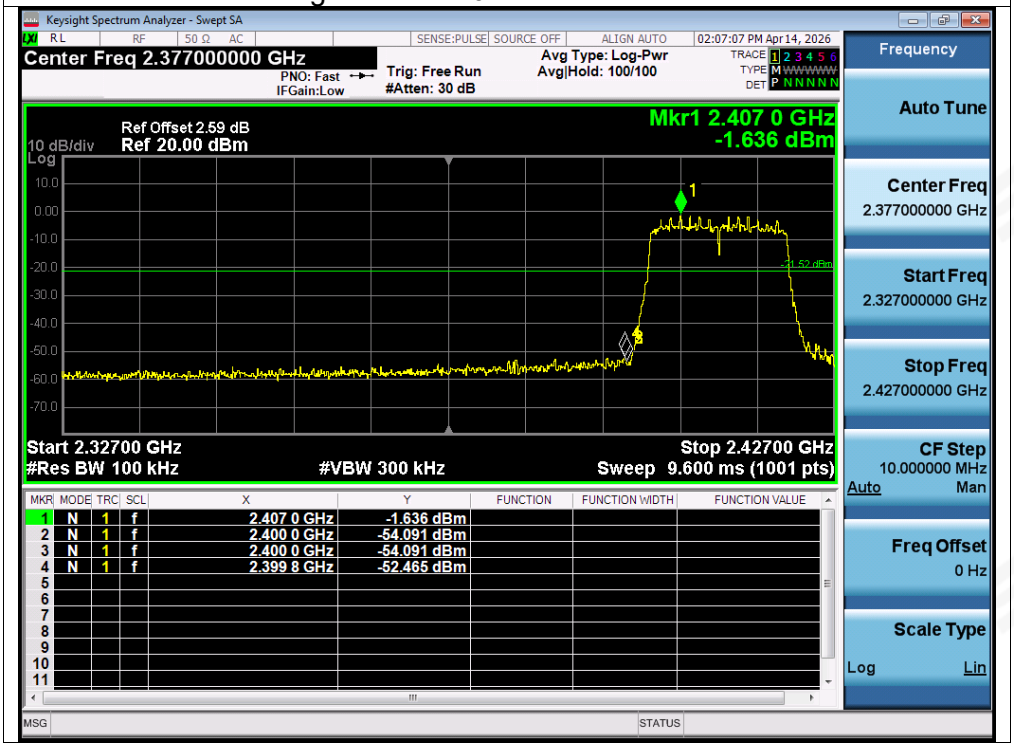
Band Edge NVNT g 2462MHz AntA Emission



Band Edge NVNT n20 2412MHz AntA Ref

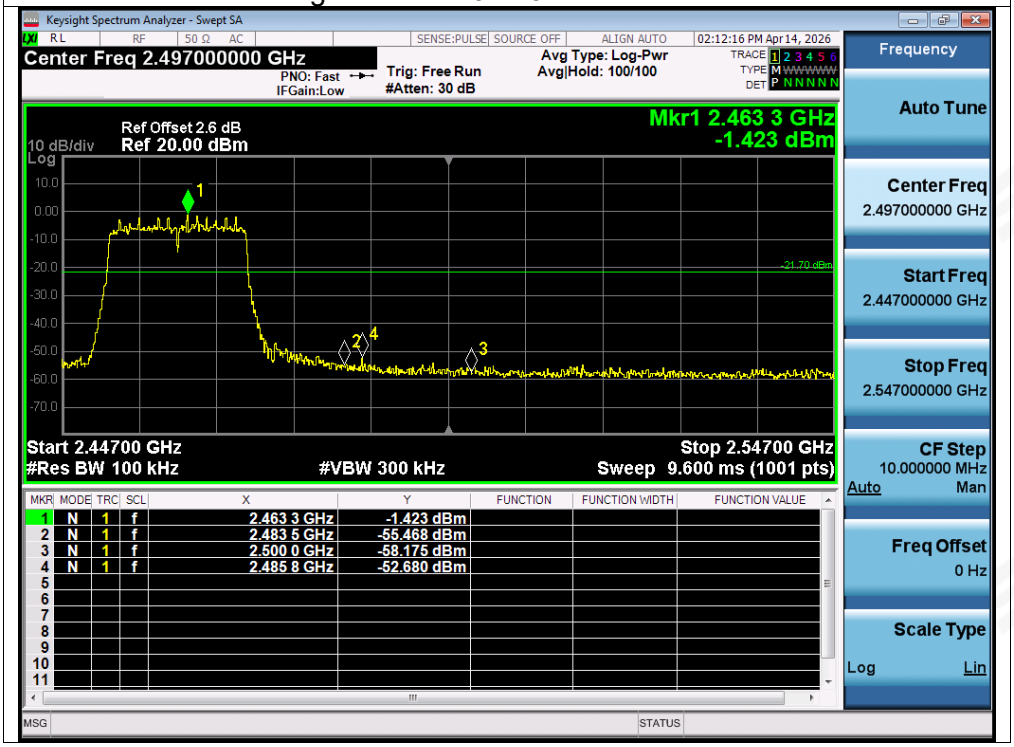


Band Edge NVNT n20 2412MHz AntA Emission

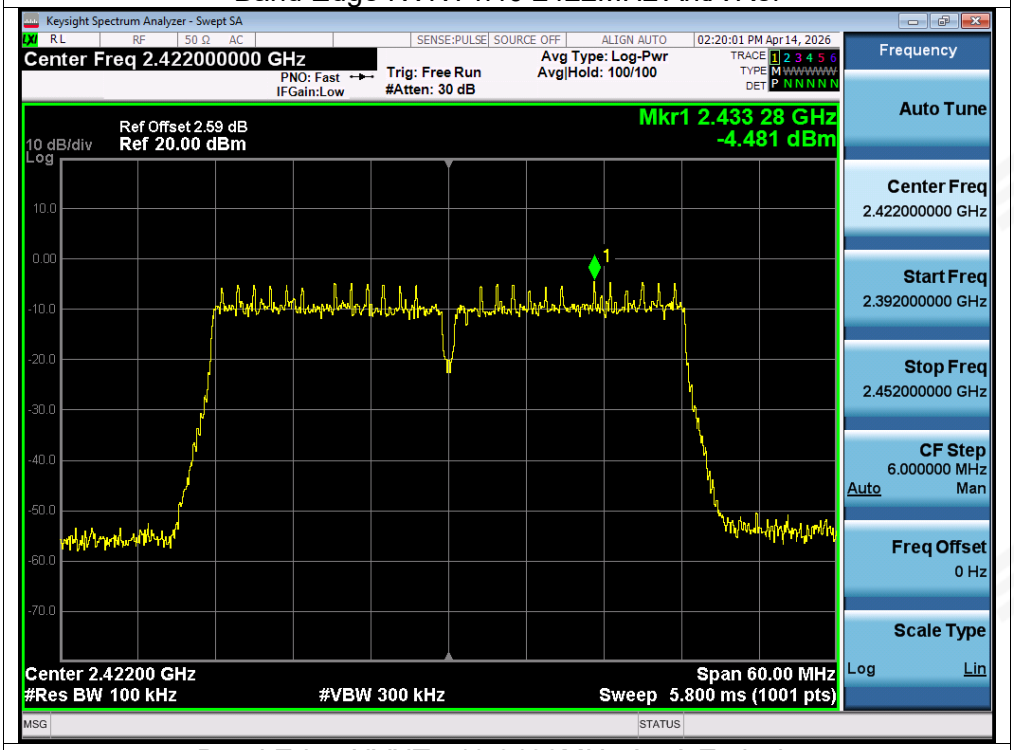


Band Edge NVNT n20 2462MHz AntA Ref

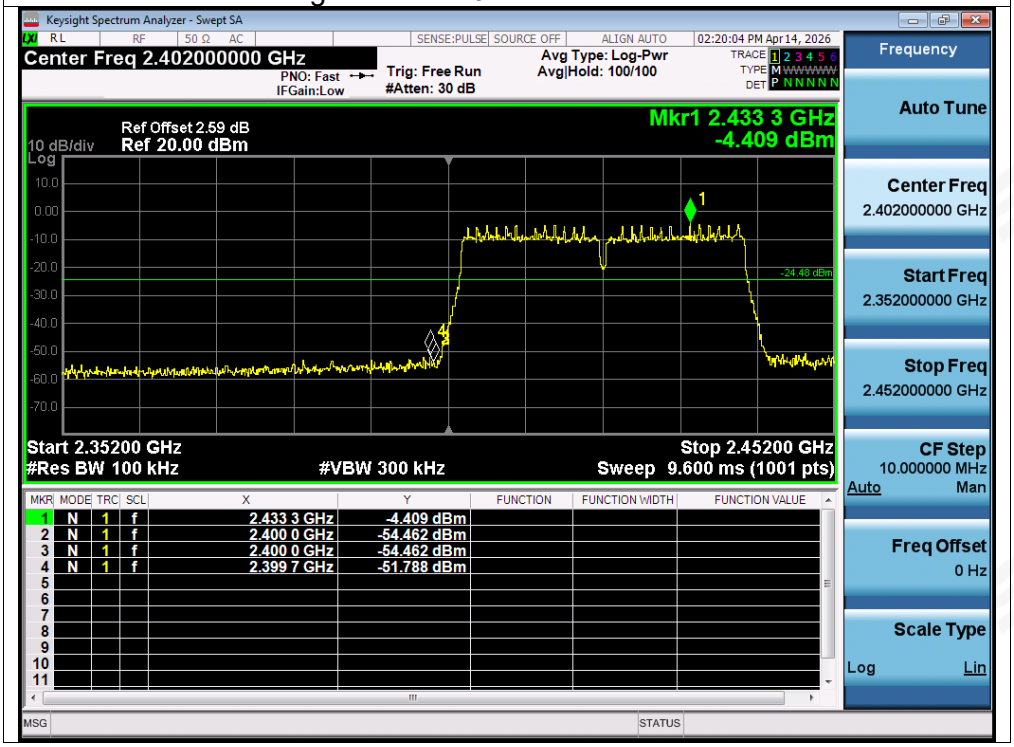
Band Edge NVNT n20 2462MHz AntA Emission



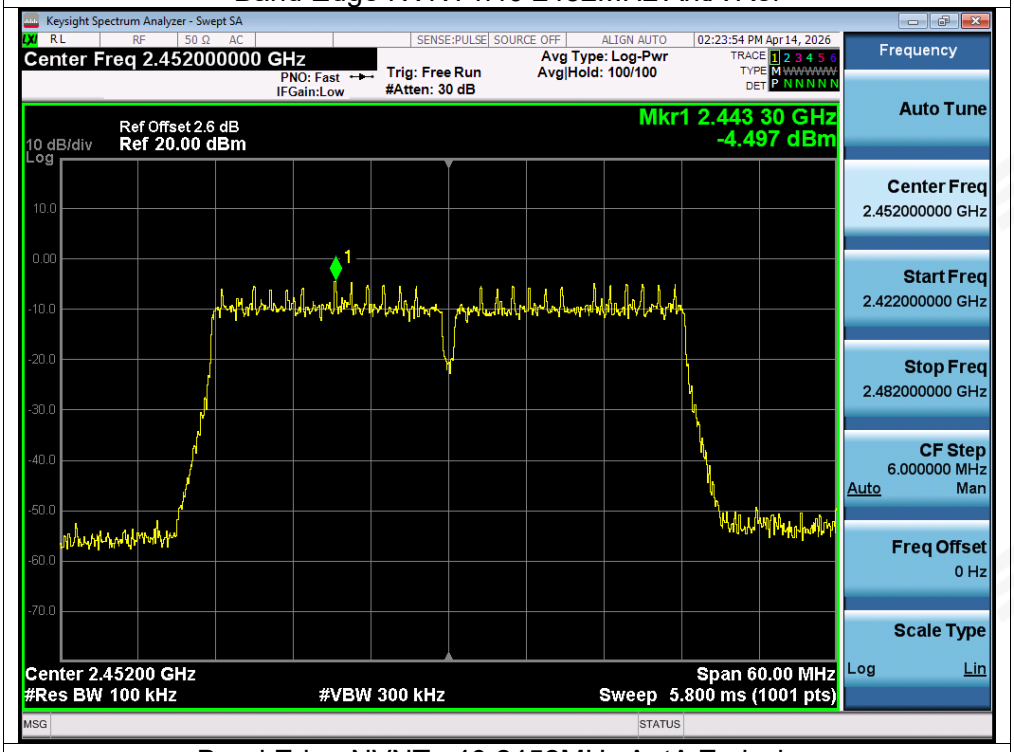
Band Edge NVNT n40 2422MHz AntA Ref



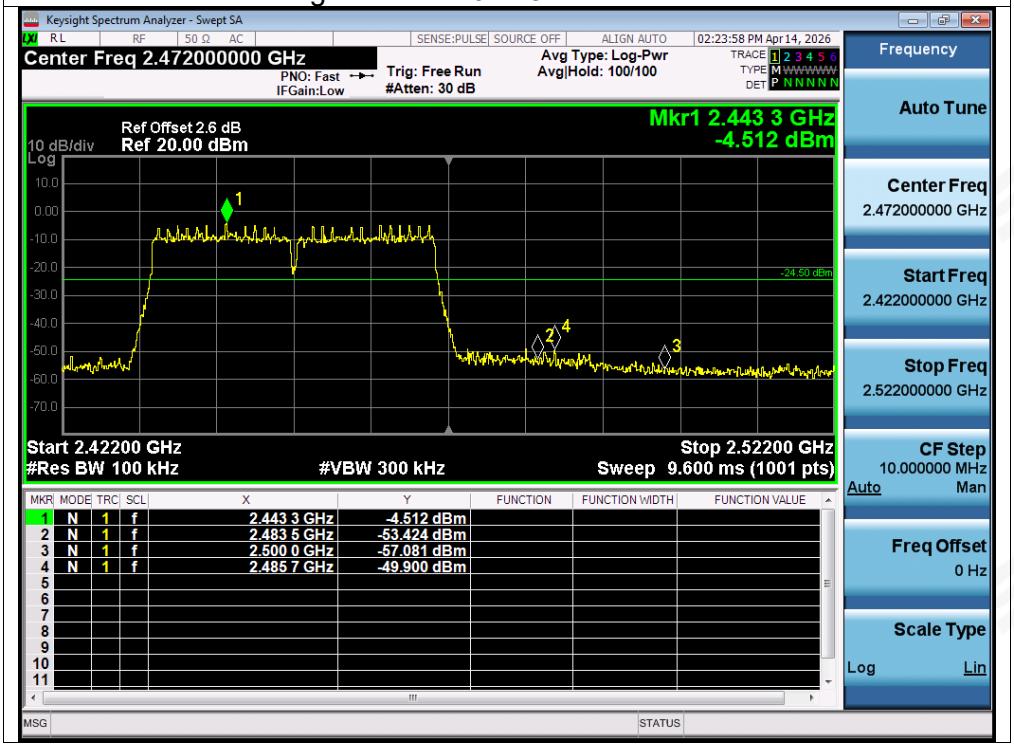
Band Edge NVNT n40 2422MHz AntA Emission



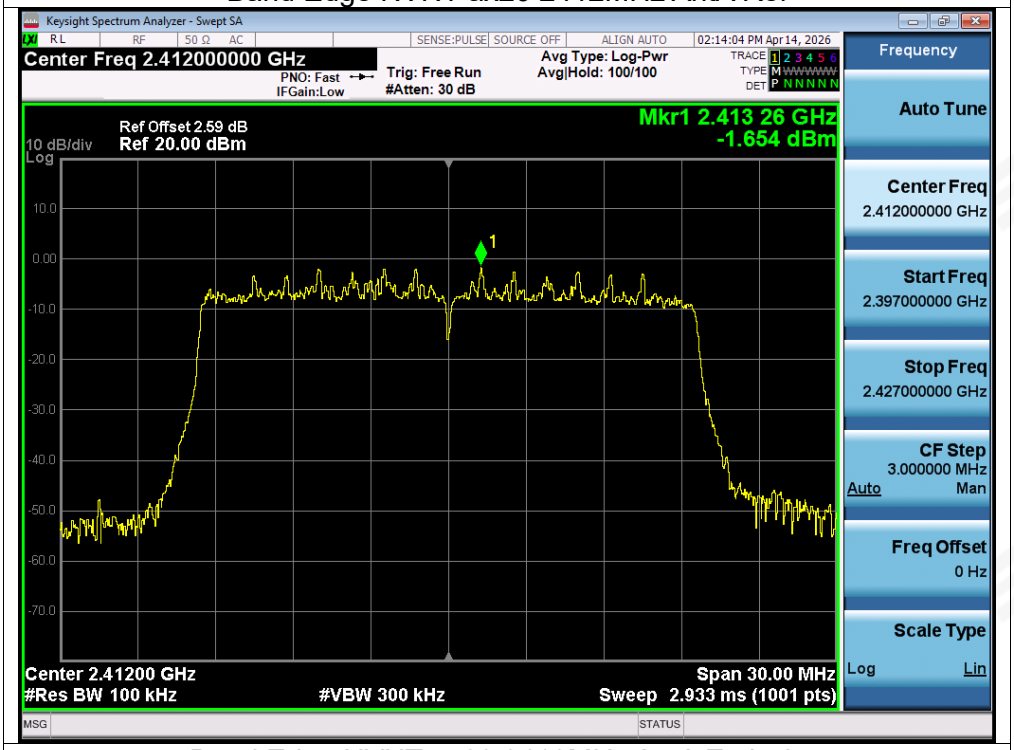
Band Edge NVNT n40 2452MHz AntA Ref



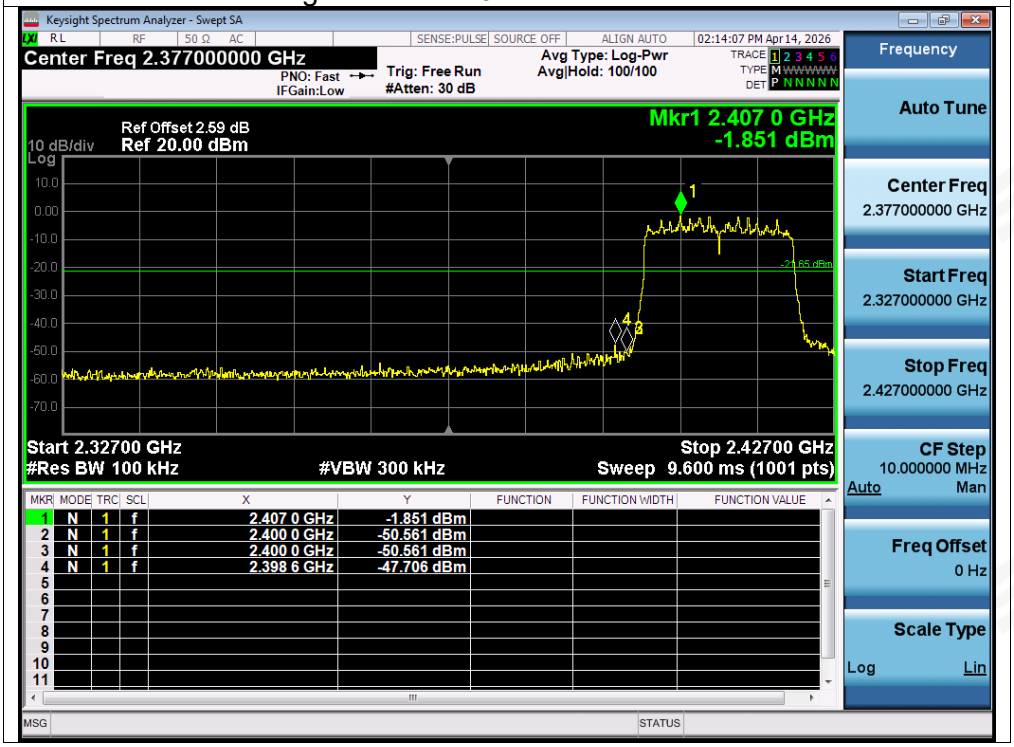
Band Edge NVNT n40 2452MHz AntA Emission



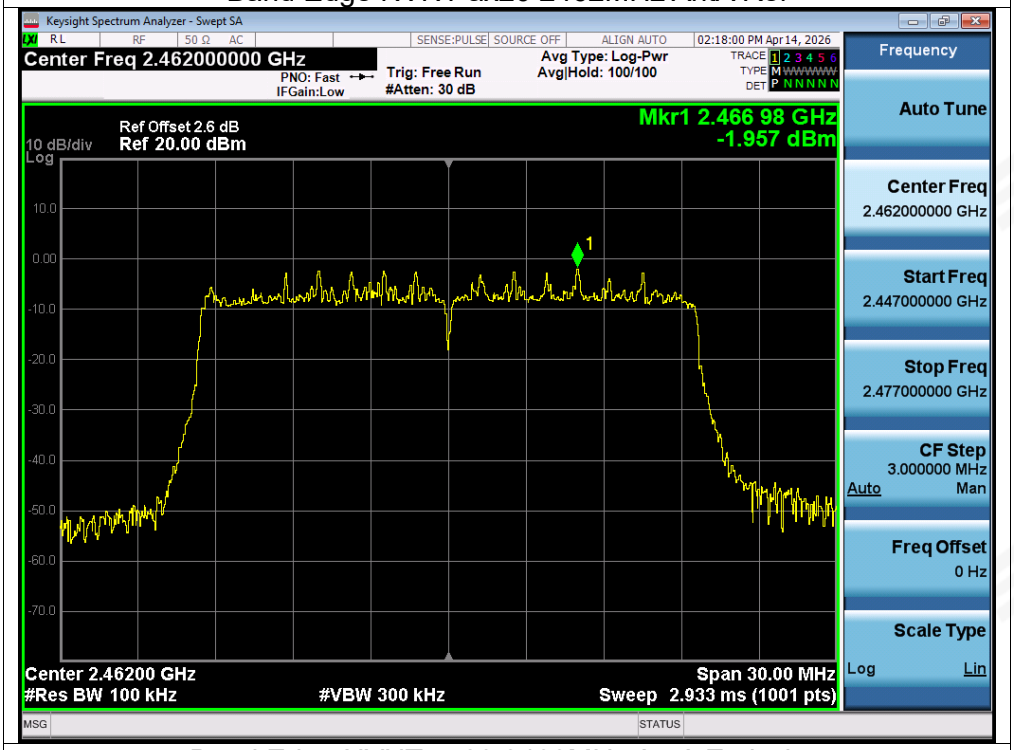
Band Edge NVNT ax20 2412MHz AntA Ref



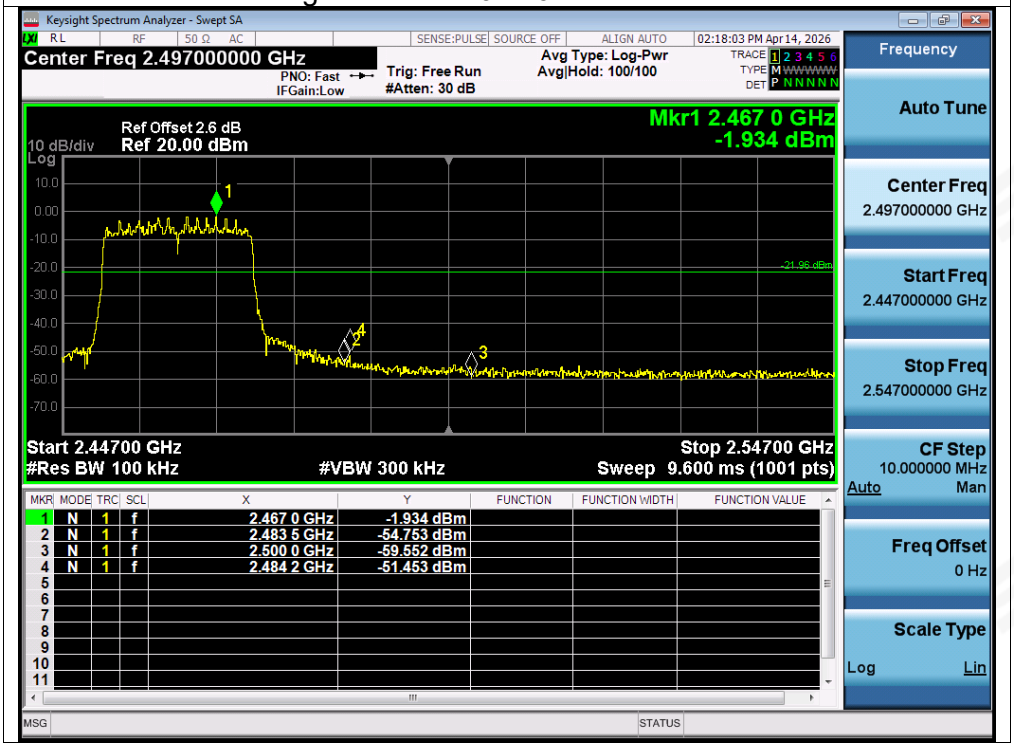
Band Edge NVNT ax20 2412MHz AntA Emission



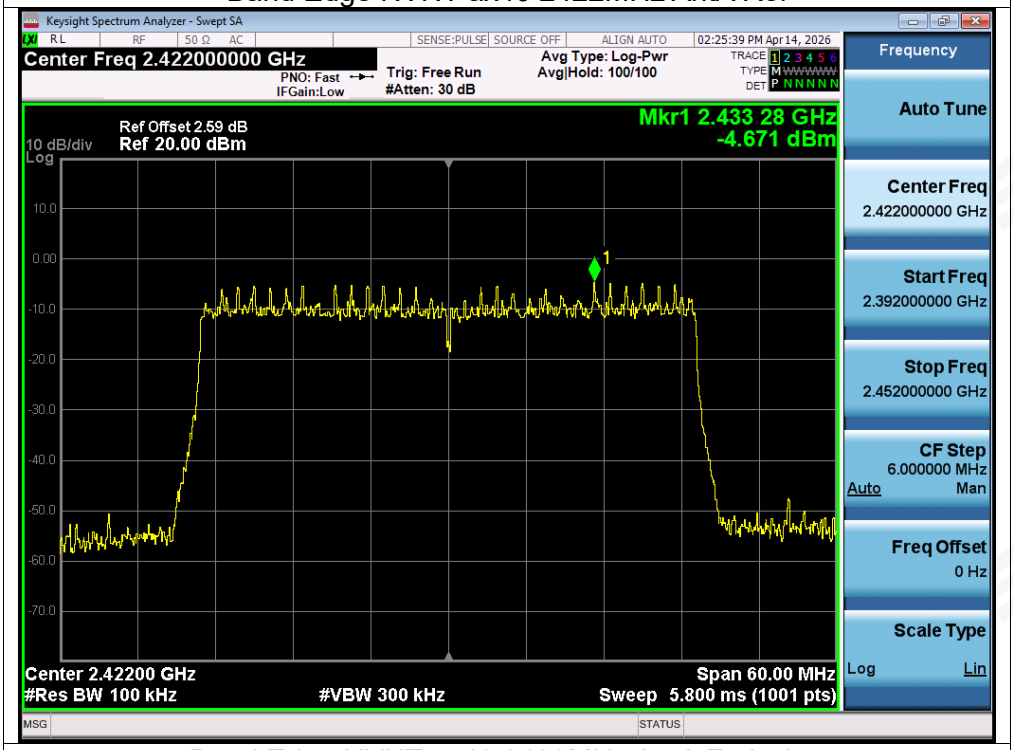
Band Edge NVNT ax20 2462MHz AntA Ref



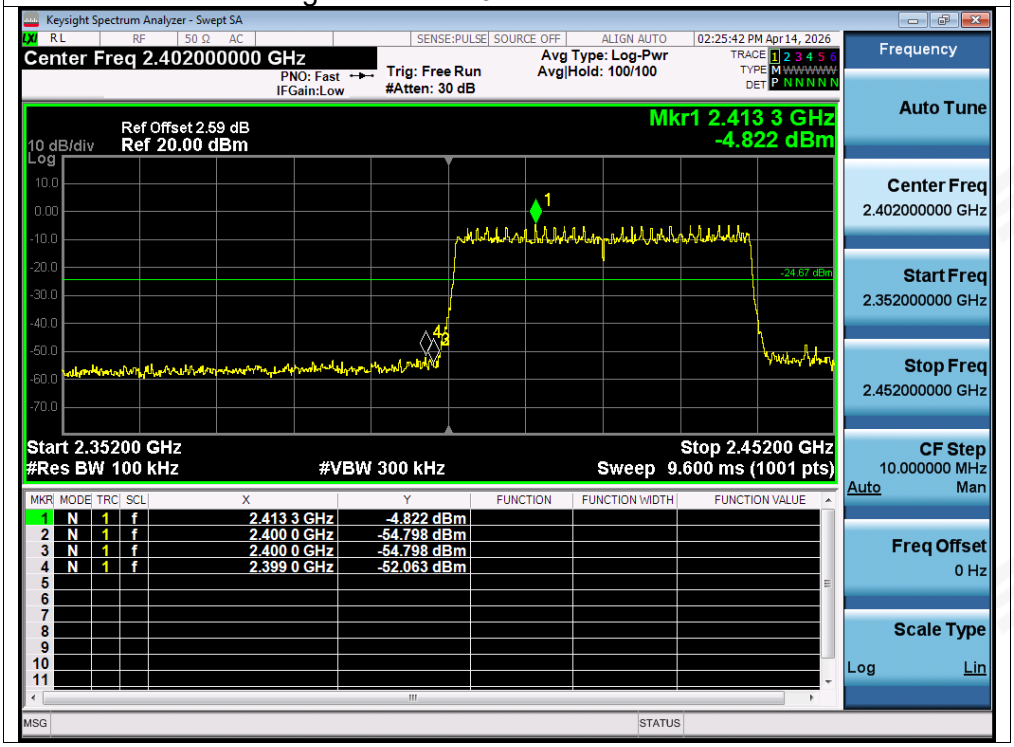
Band Edge NVNT ax20 2462MHz AntA Emission



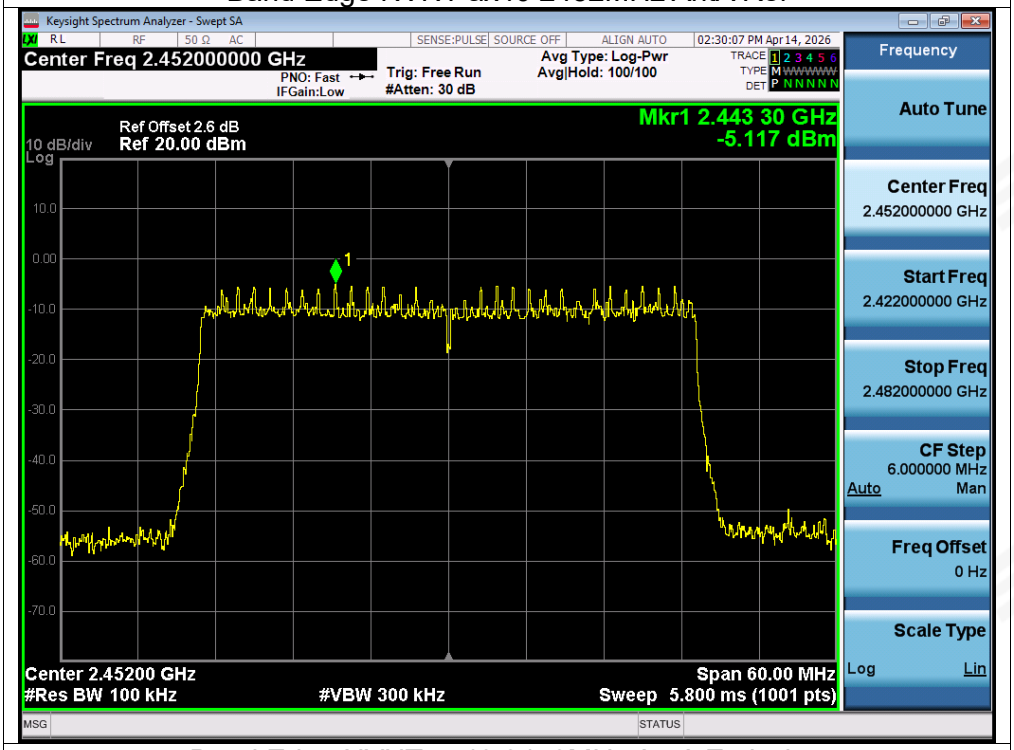
Band Edge NVNT ax40 2422MHz AntA Ref



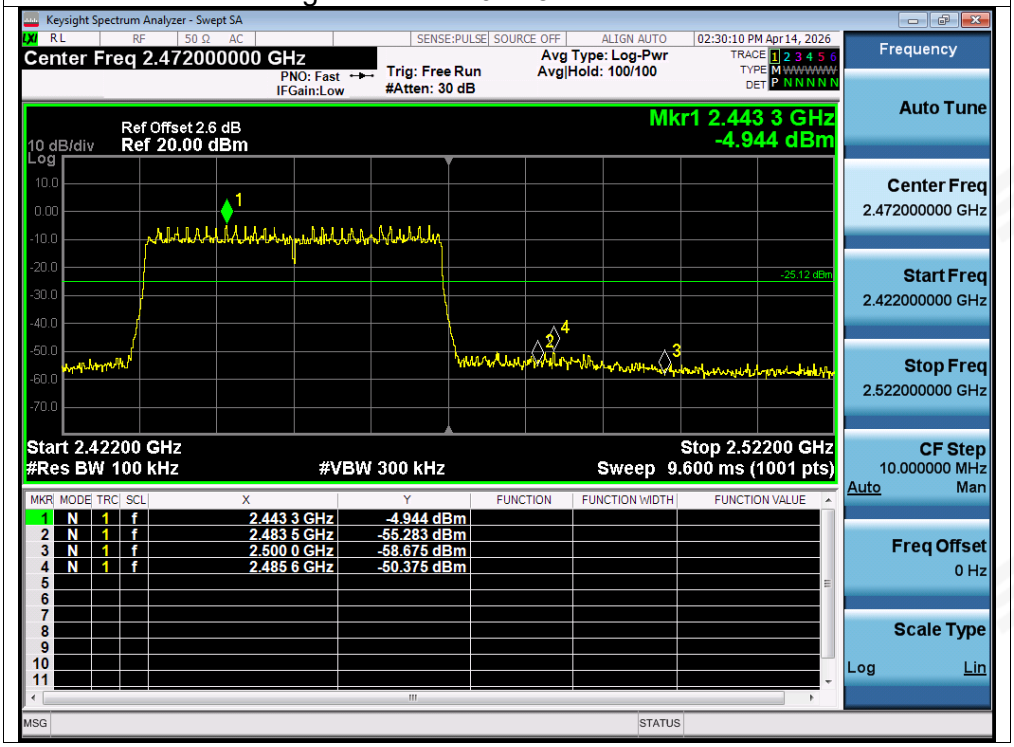
Band Edge NVNT ax40 2422MHz AntA Emission



Band Edge NVNT ax40 2452MHz AntA Ref



Band Edge NVNT ax40 2452MHz AntA Emission



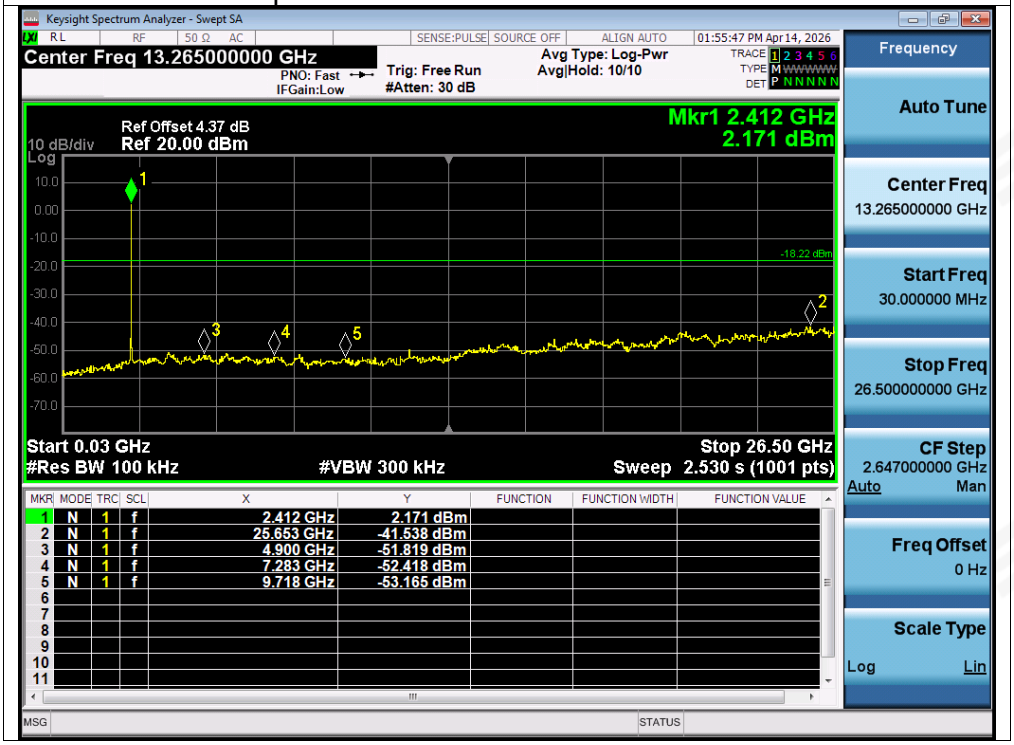
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	AntA	-43.31	-20	Pass
		2437		-43.32	-20	Pass
		2462		-43.72	-20	Pass
	g	2412		-41.35	-20	Pass
		2437		-41.22	-20	Pass
		2462		-41.7	-20	Pass
	n20	2412		-40.07	-20	Pass
		2437		-40.44	-20	Pass
		2462		-40.53	-20	Pass
	n40	2422		-37.06	-20	Pass
		2437		-36.84	-20	Pass
		2452		-37.75	-20	Pass
	ax20	2412		-40.07	-20	Pass
		2437		-40.02	-20	Pass
		2462		-39.63	-20	Pass
	ax40	2422		-37.16	-20	Pass
		2437		-35.89	-20	Pass
		2452		-37.1	-20	Pass

Test Graphs

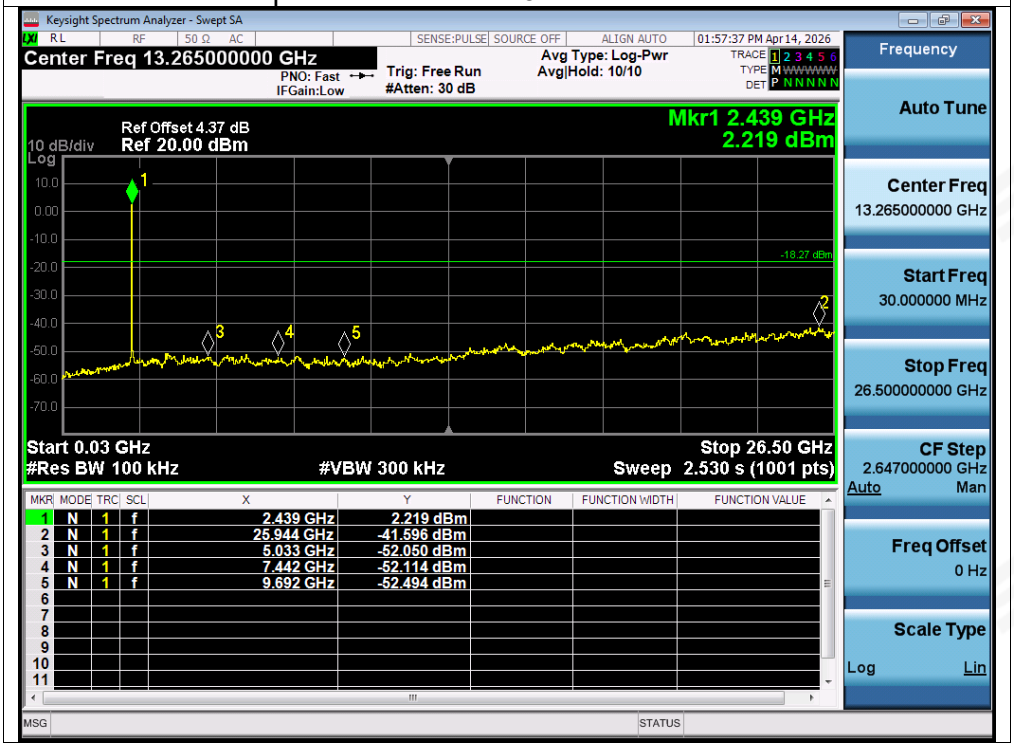
Tx. Spurious NVNT b 2412MHz AntA Ref

Tx. Spurious NVNT b 2412MHz AntA Emission

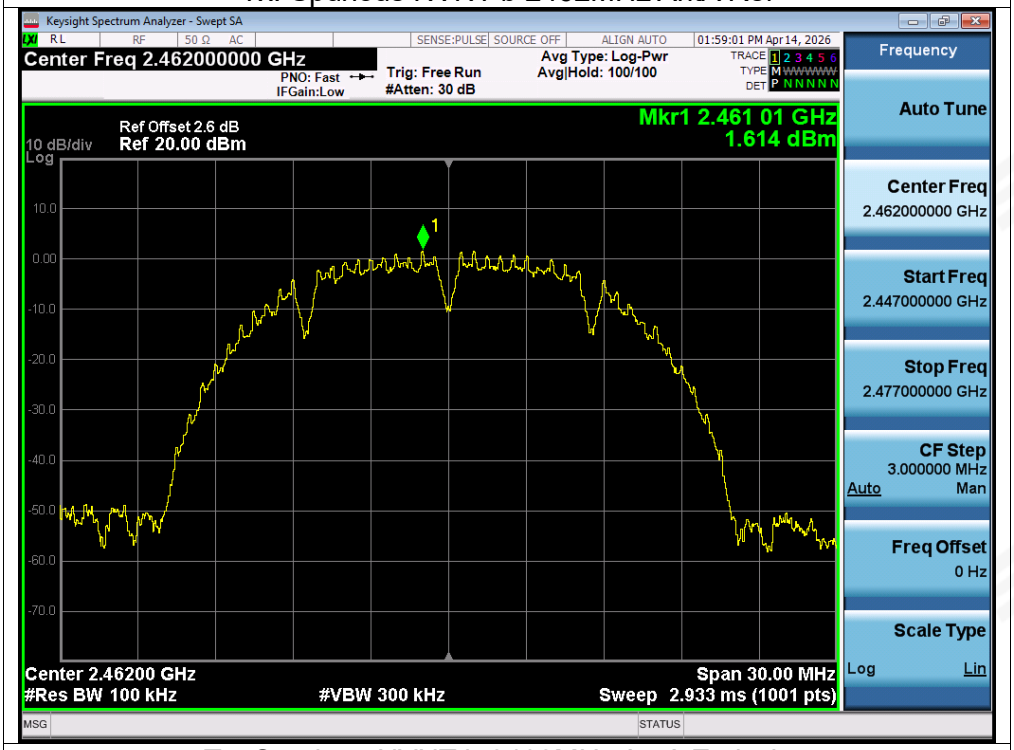


Tx. Spurious NVNT b 2437MHz AntA Ref

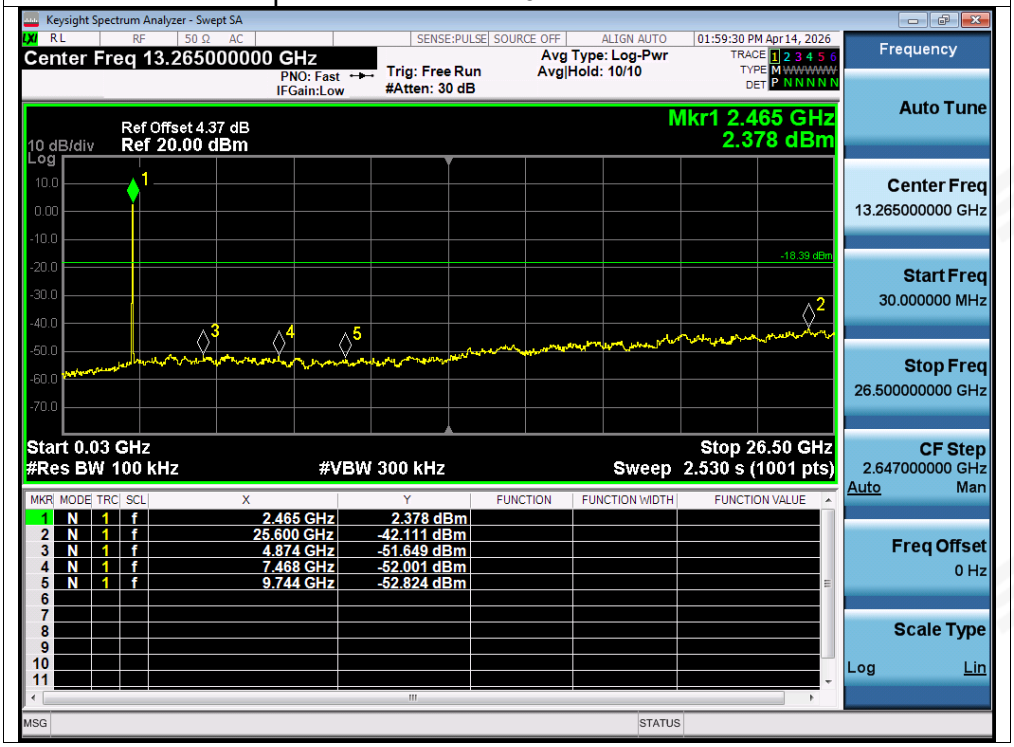
Tx. Spurious NVNT b 2437MHz AntA Emission



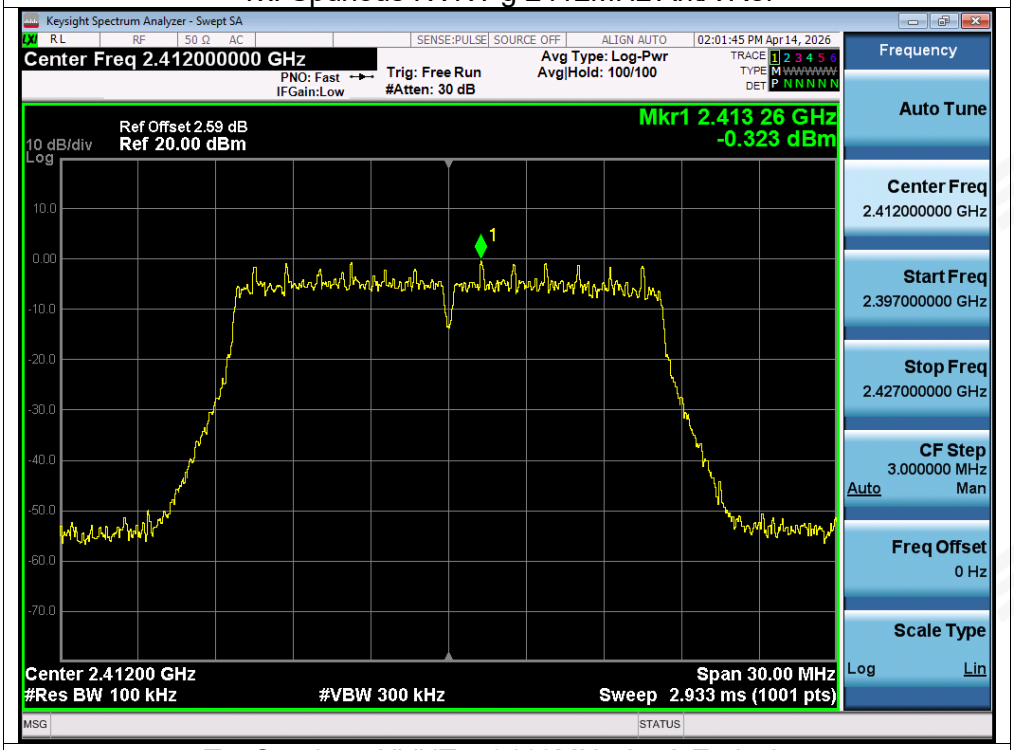
Tx. Spurious NVNT b 2462MHz AntA Ref



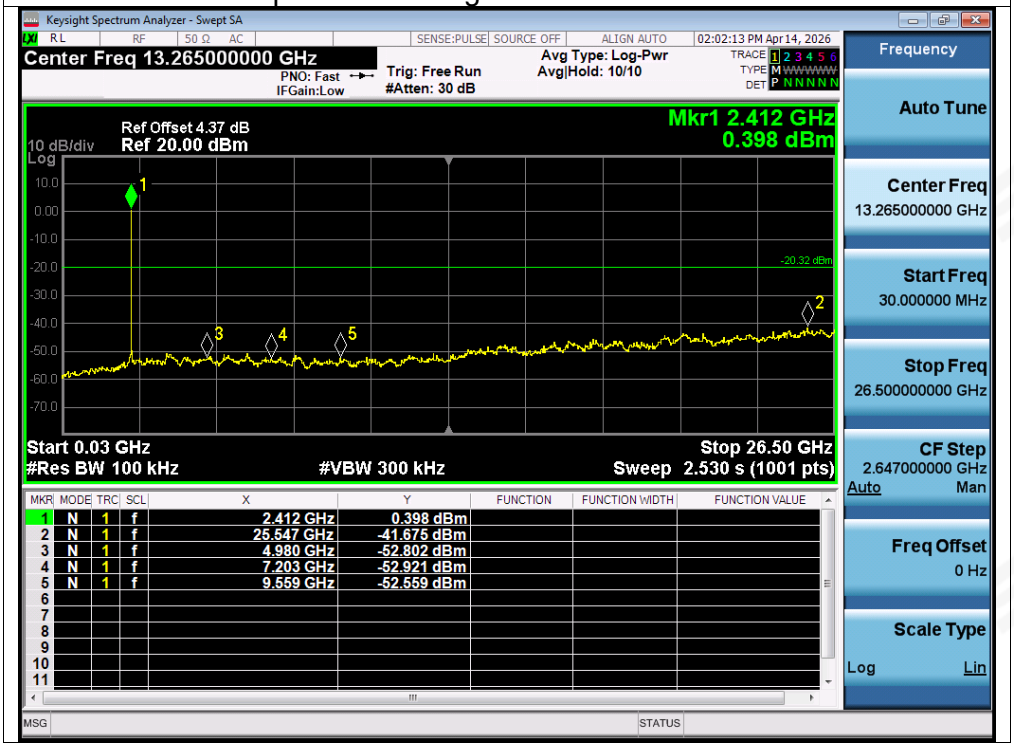
Tx. Spurious NVNT b 2462MHz AntA Emission



Tx. Spurious NVNT g 2412MHz AntA Ref

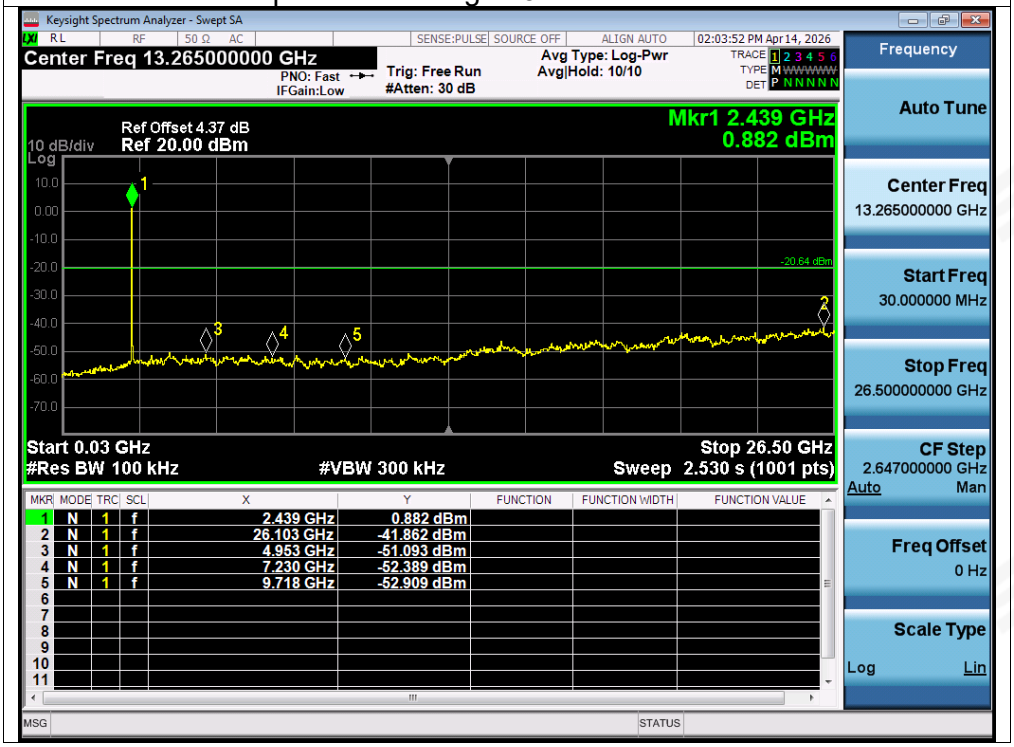


Tx. Spurious NVNT g 2412MHz AntA Emission

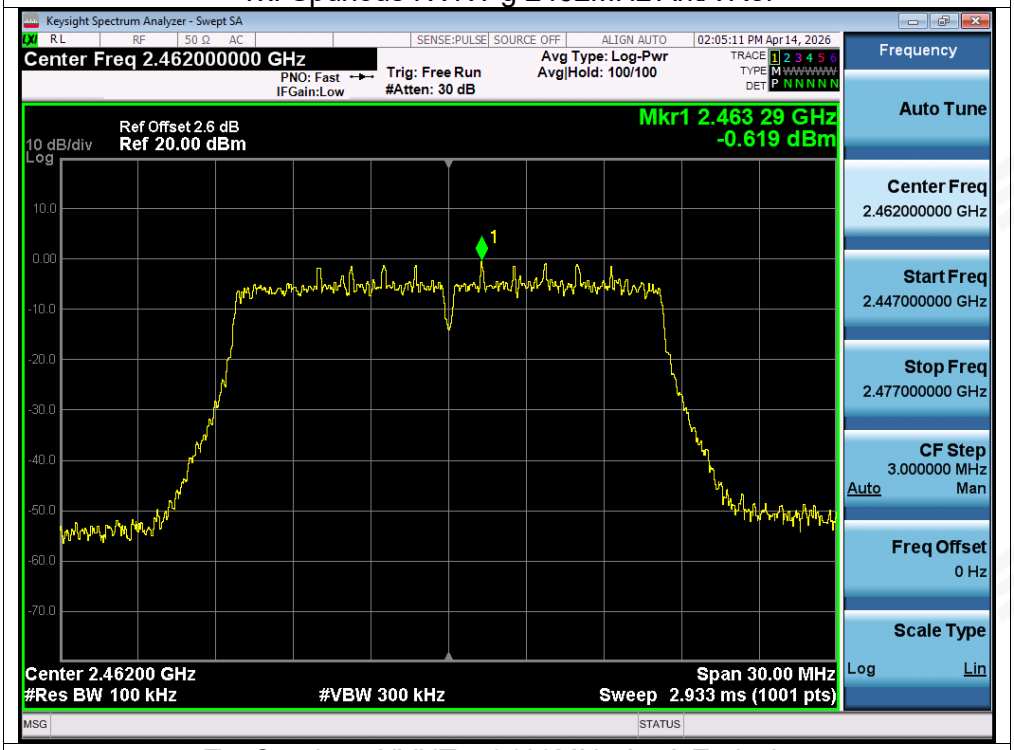


Tx. Spurious NVNT g 2437MHz AntA Ref

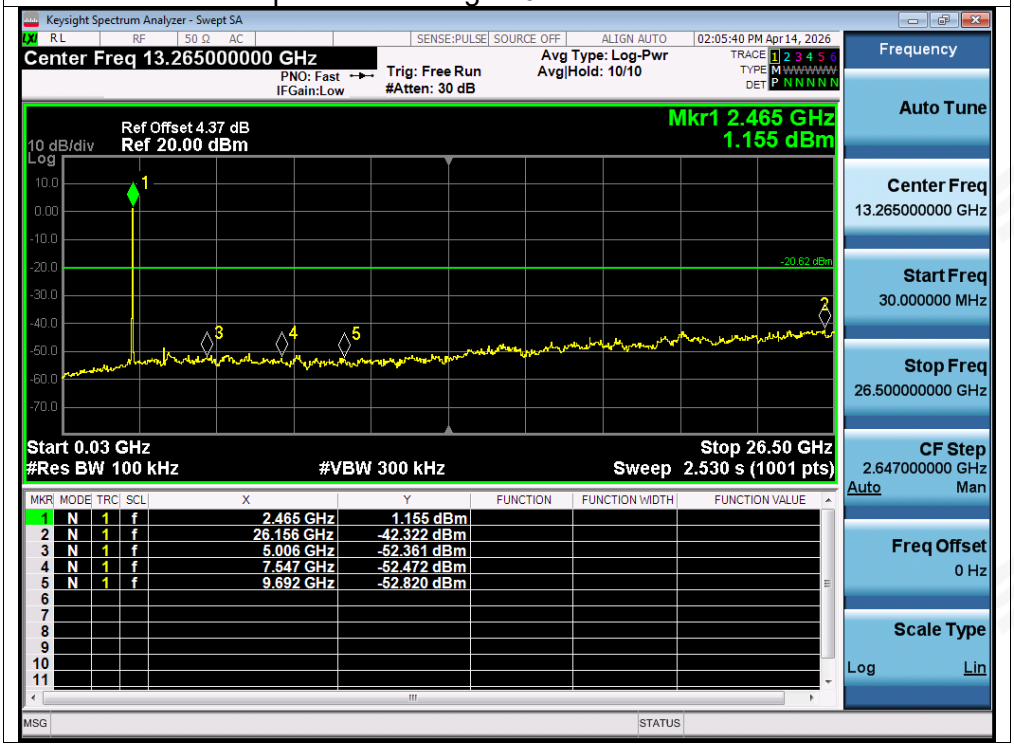
Tx. Spurious NVNT g 2437MHz AntA Emission



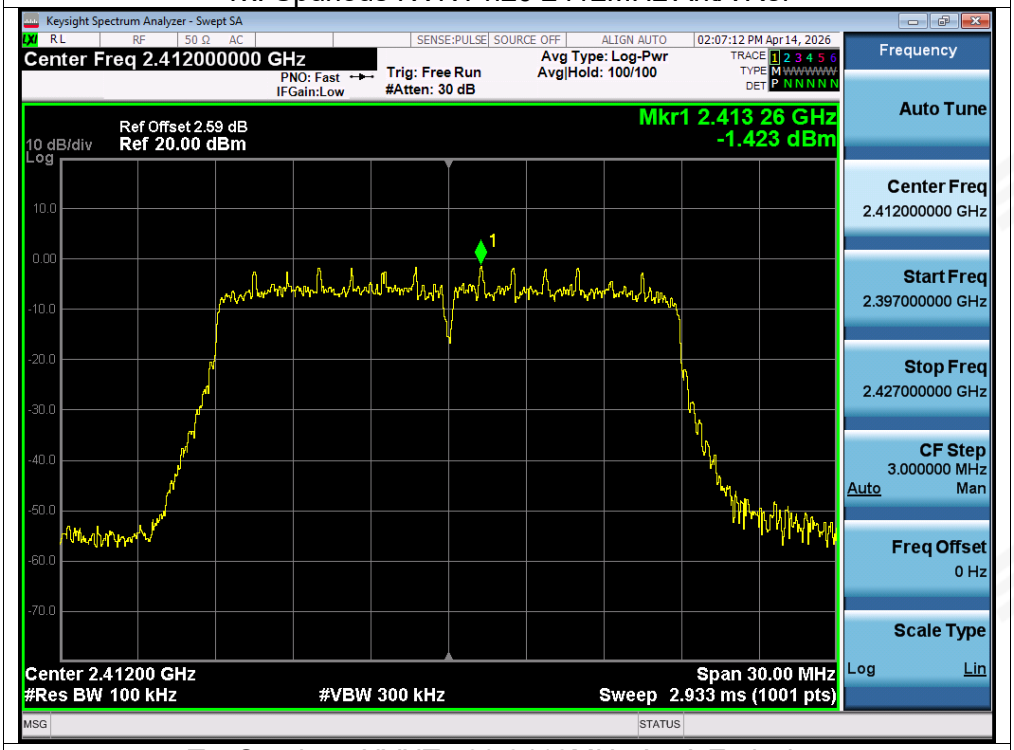
Tx. Spurious NVNT g 2462MHz AntA Ref



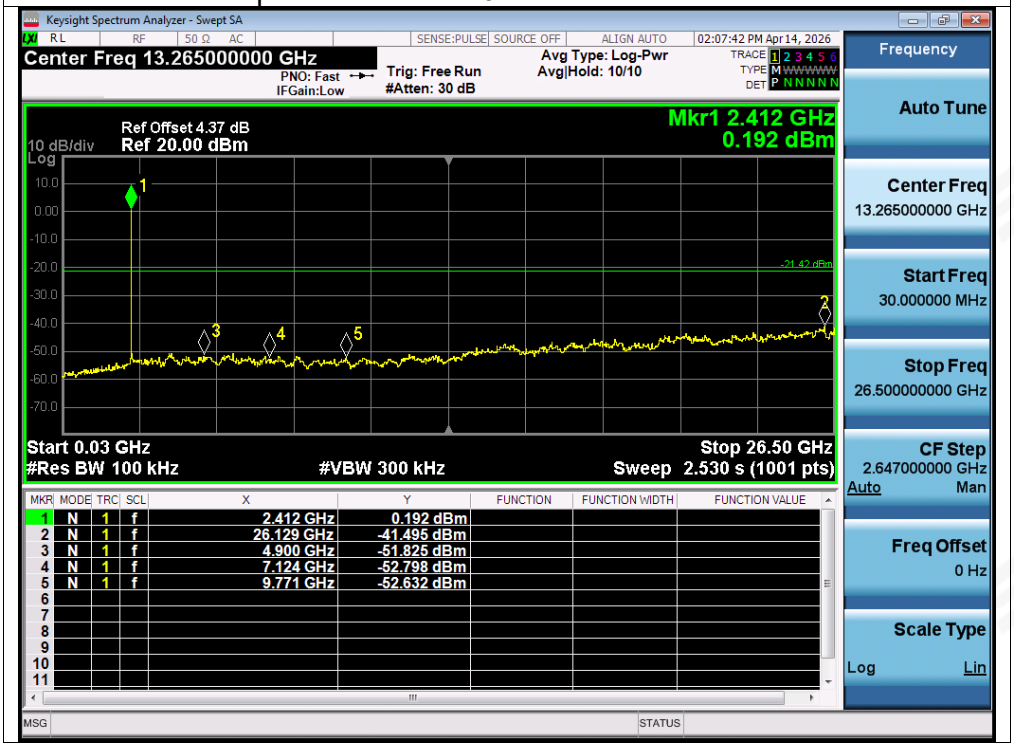
Tx. Spurious NVNT g 2462MHz AntA Emission



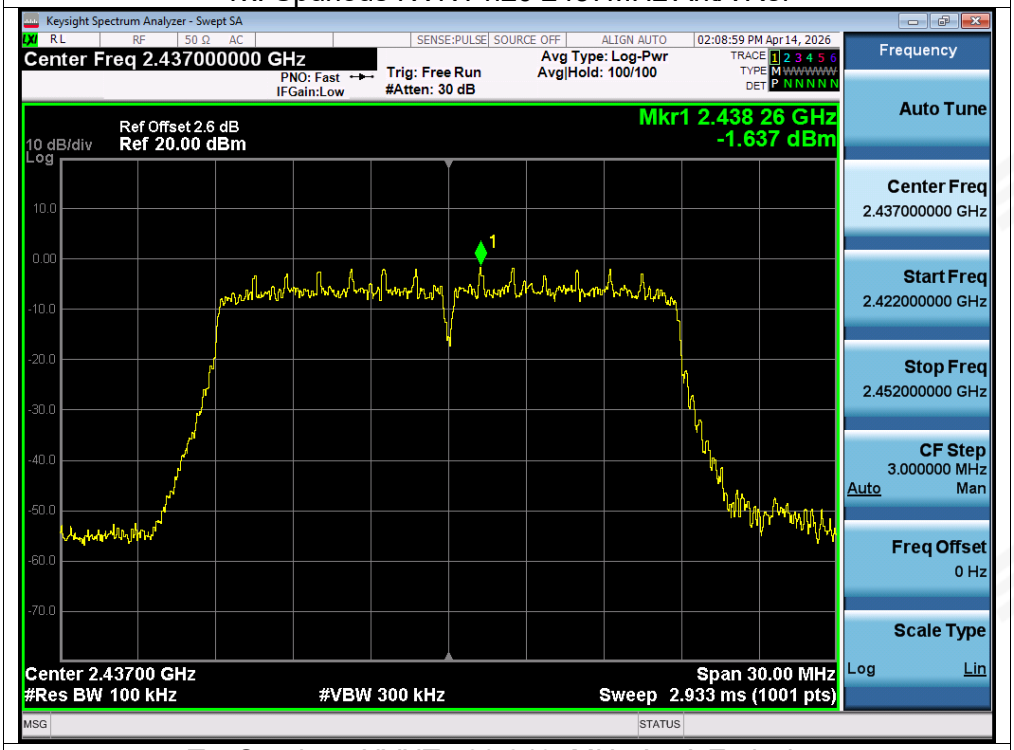
Tx. Spurious NVNT n20 2412MHz AntA Ref



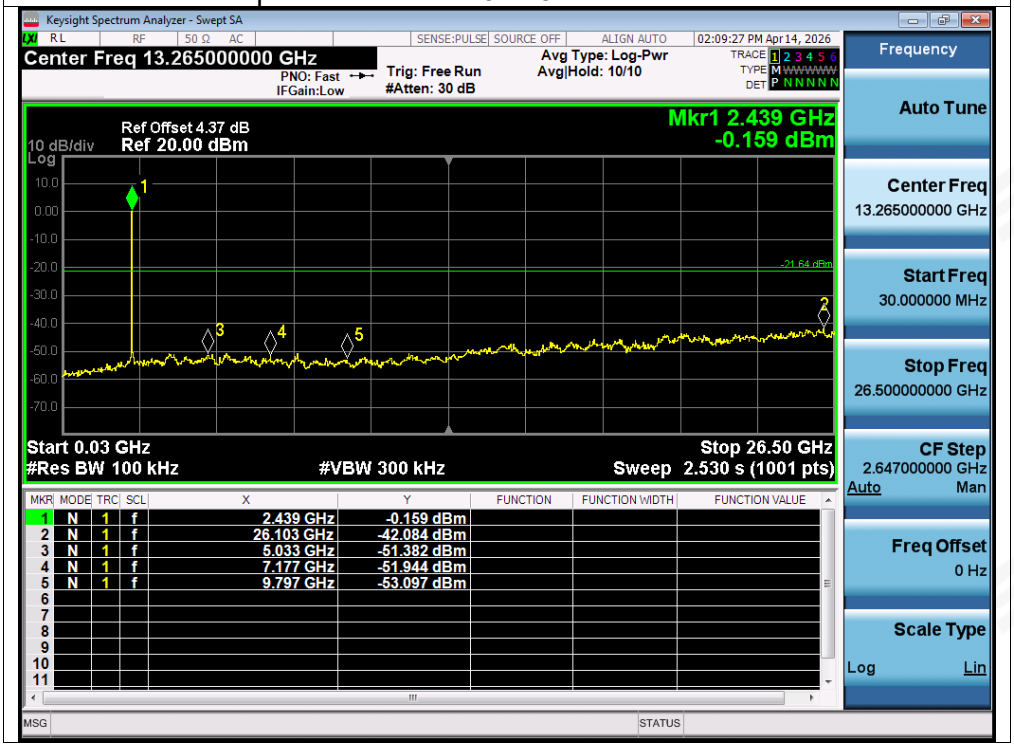
Tx. Spurious NVNT n20 2412MHz AntA Emission



Tx. Spurious NVNT n20 2437MHz AntA Ref



Tx. Spurious NVNT n20 2437MHz AntA Emission



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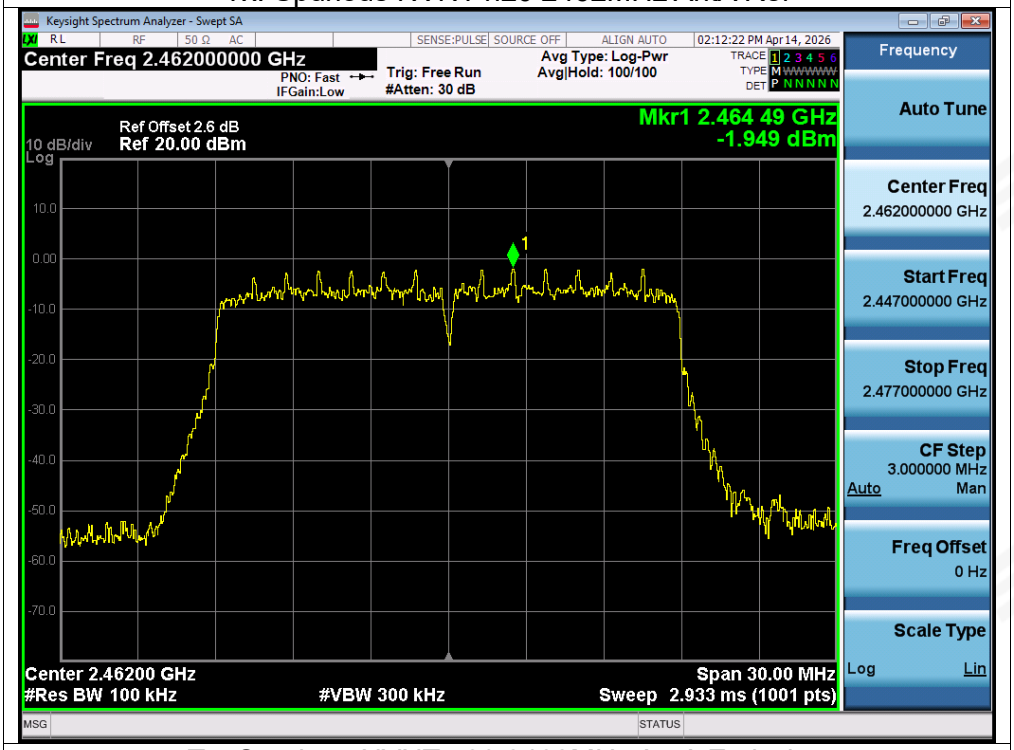

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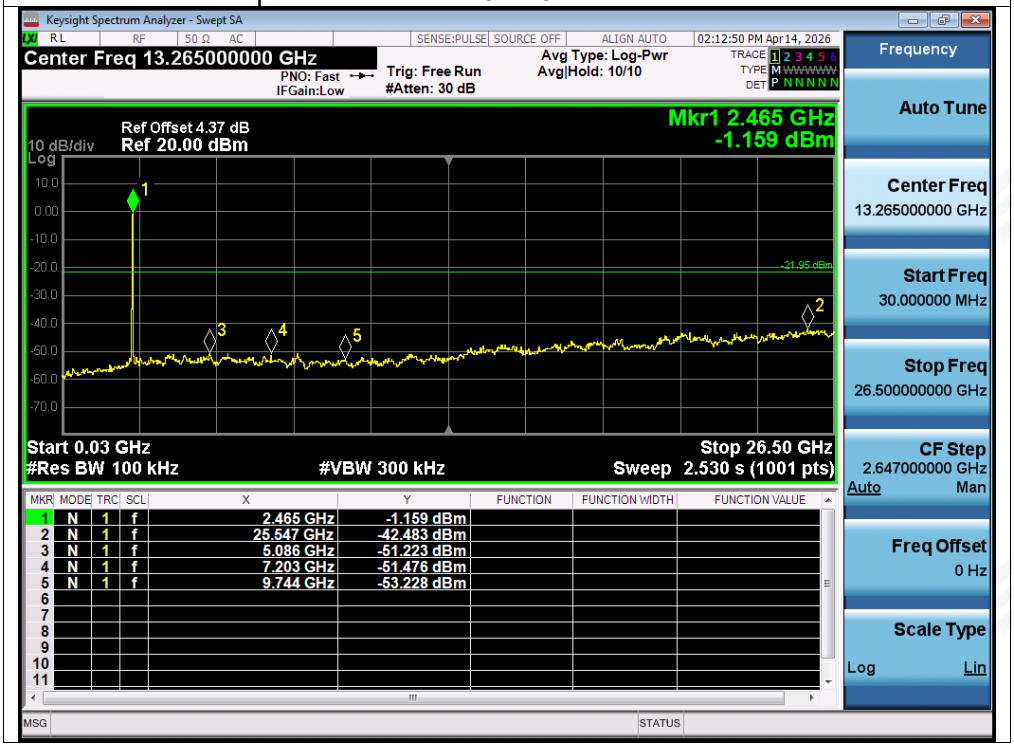

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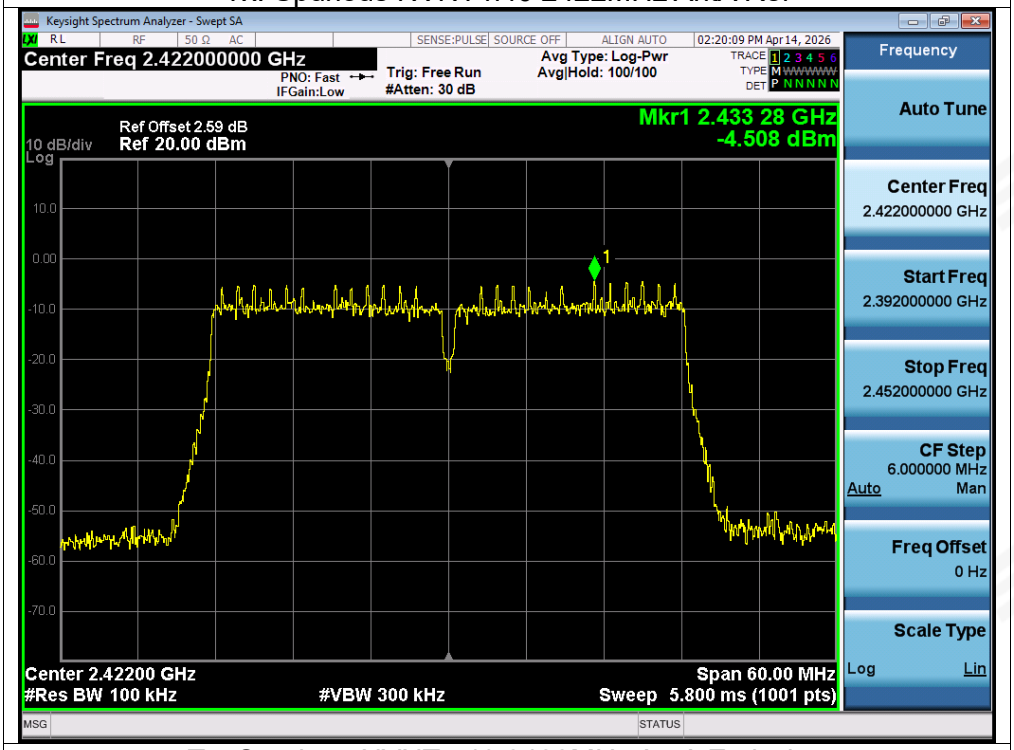

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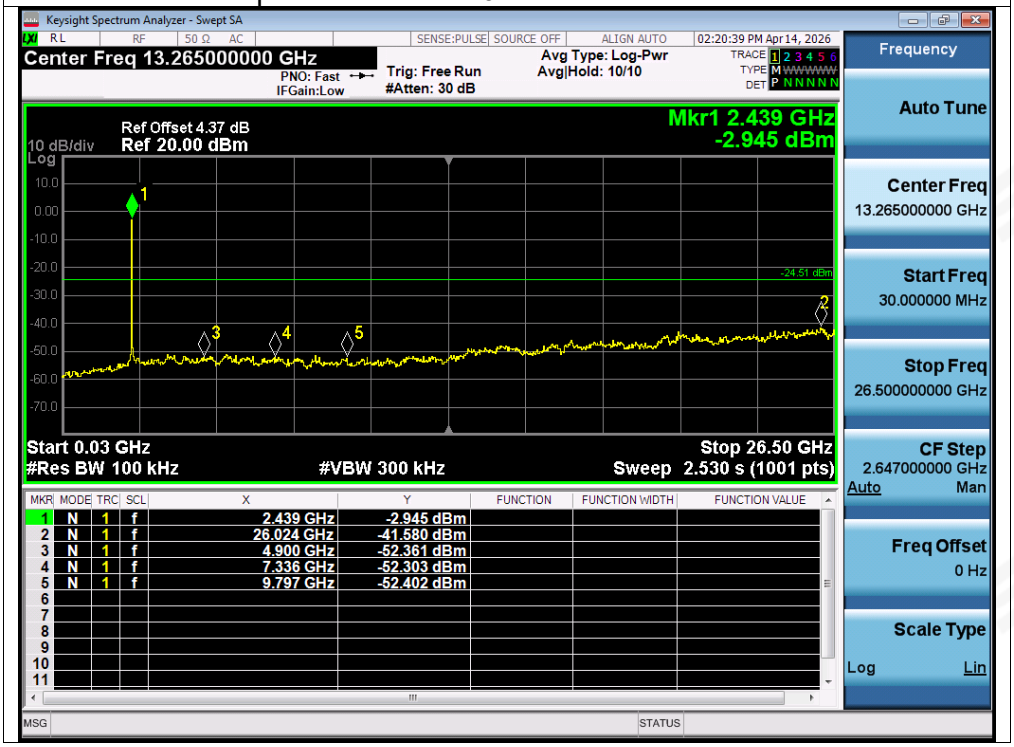

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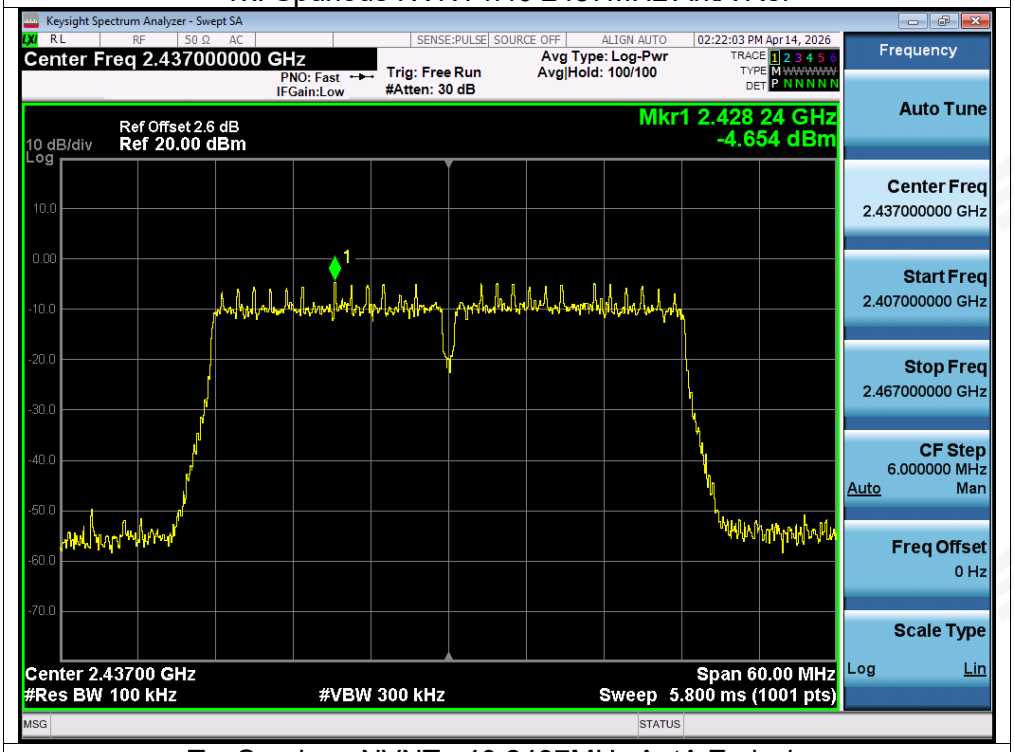

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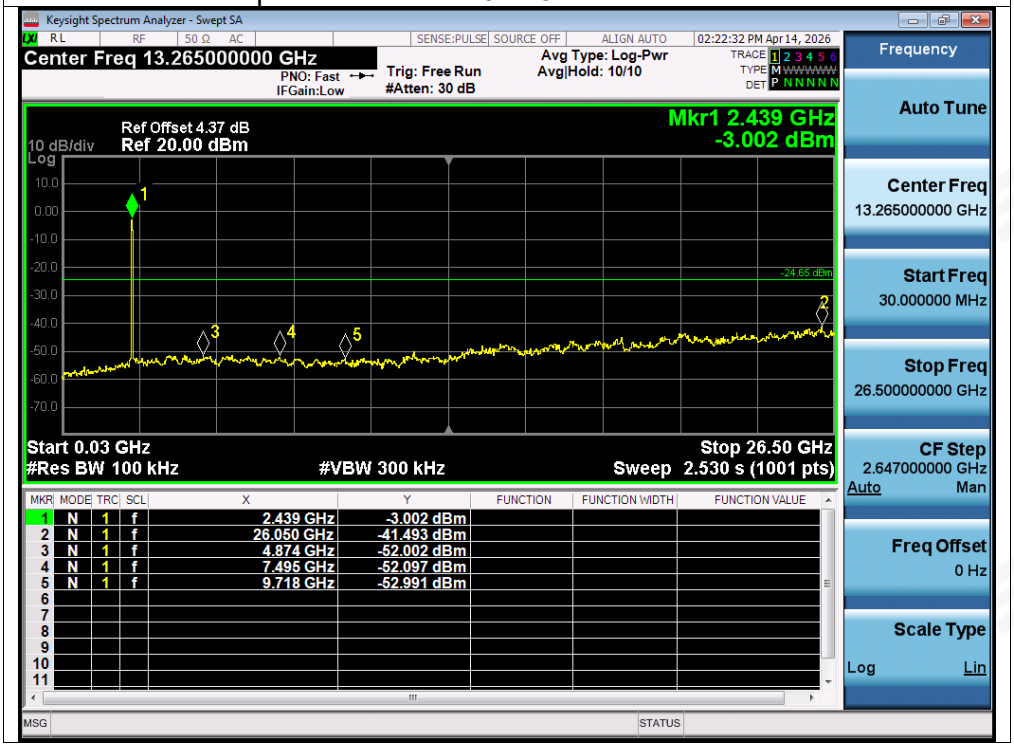

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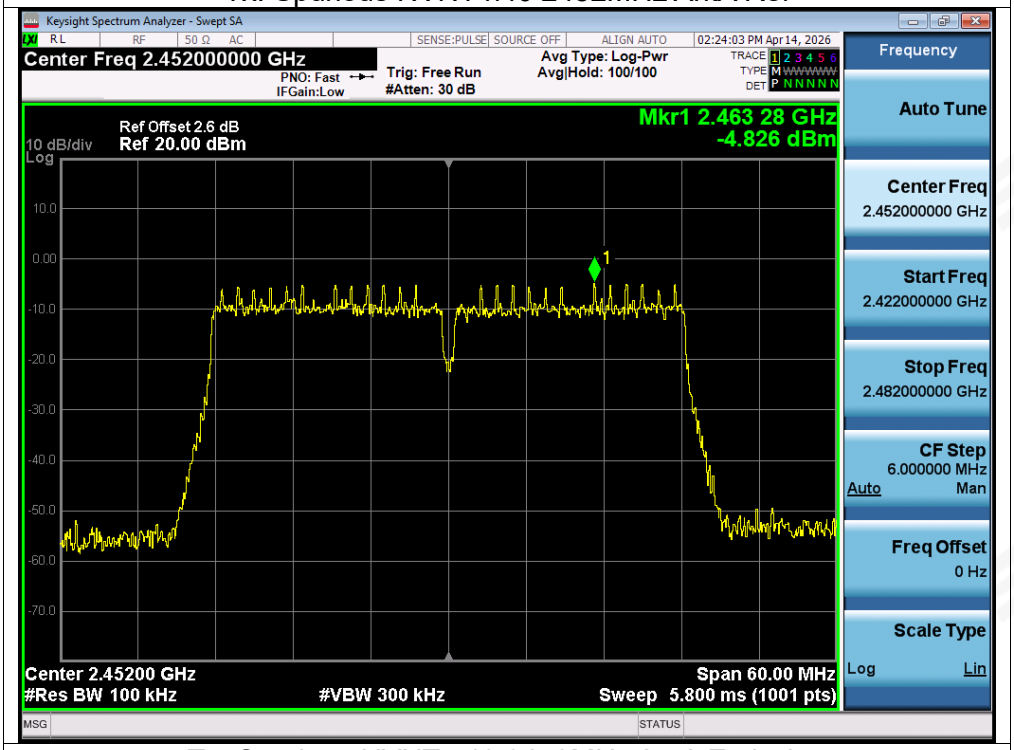
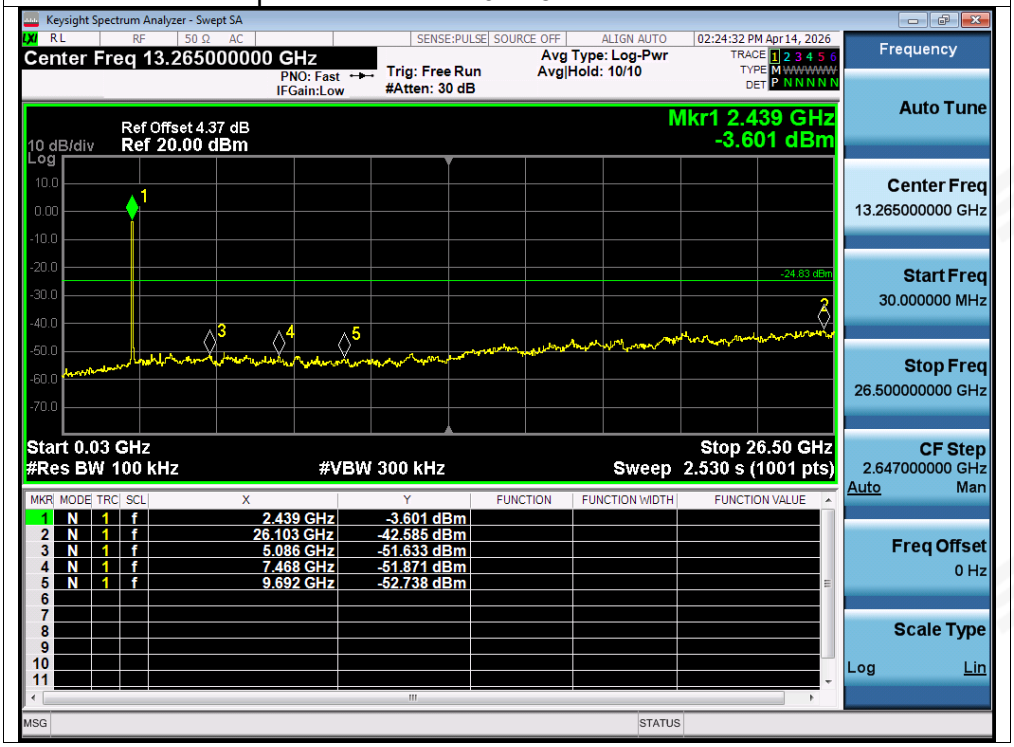
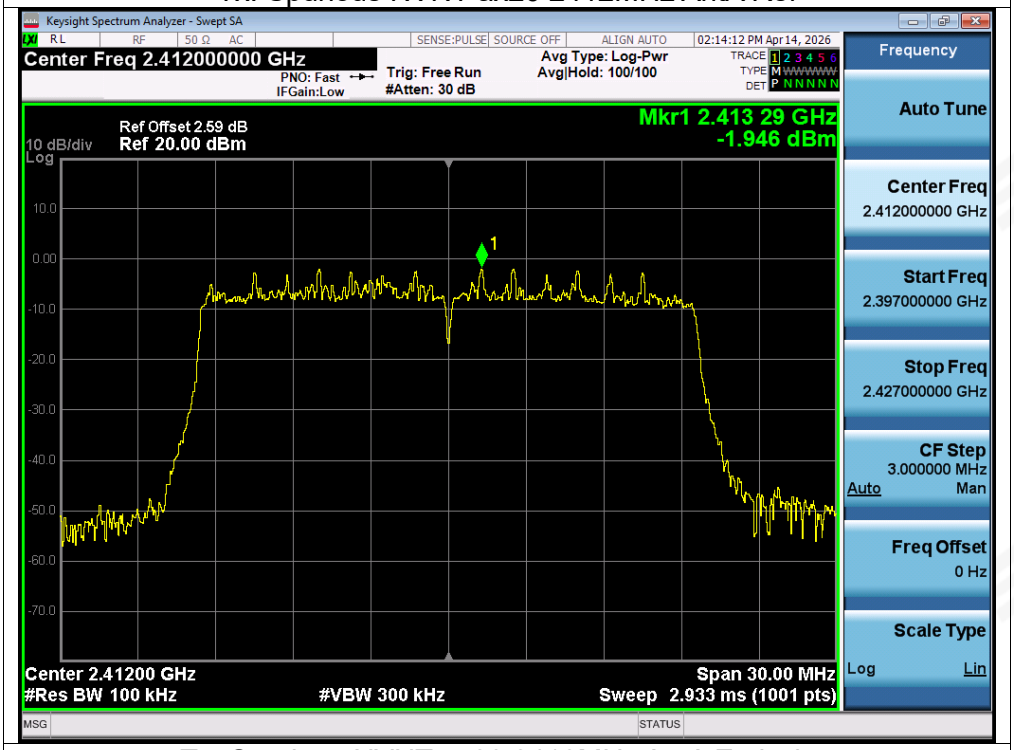


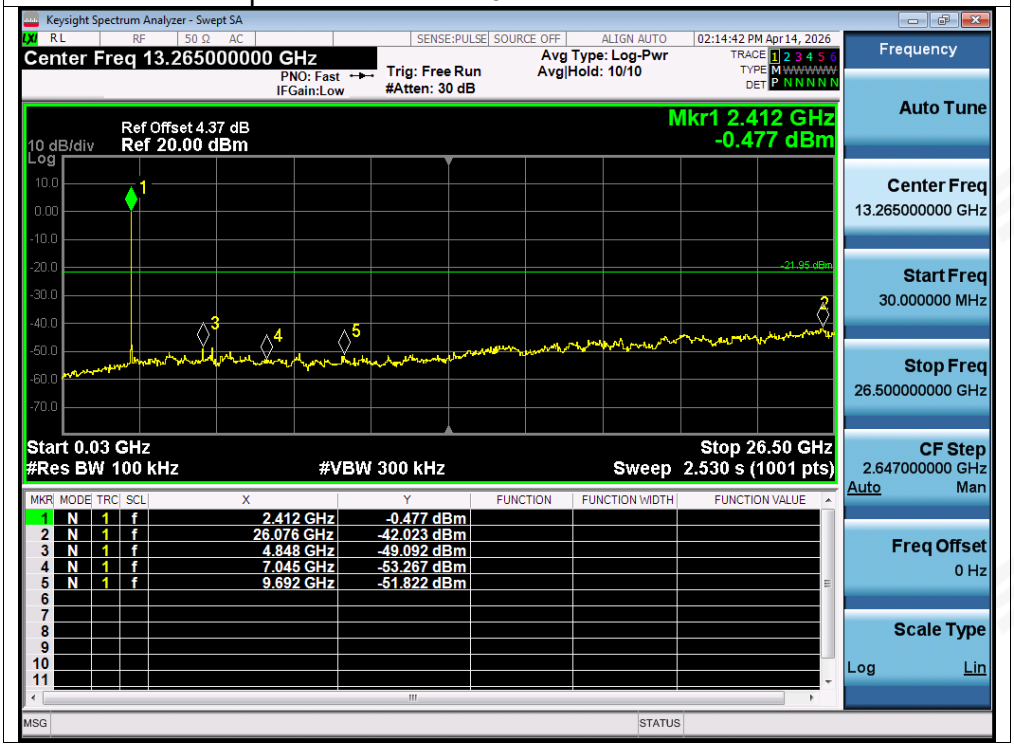
Tx. Spurious NVNT n40 2452MHz AntA Emission



Tx. Spurious NVNT ax20 2412MHz AntA Ref



Tx. Spurious NVNT ax20 2412MHz AntA Emission



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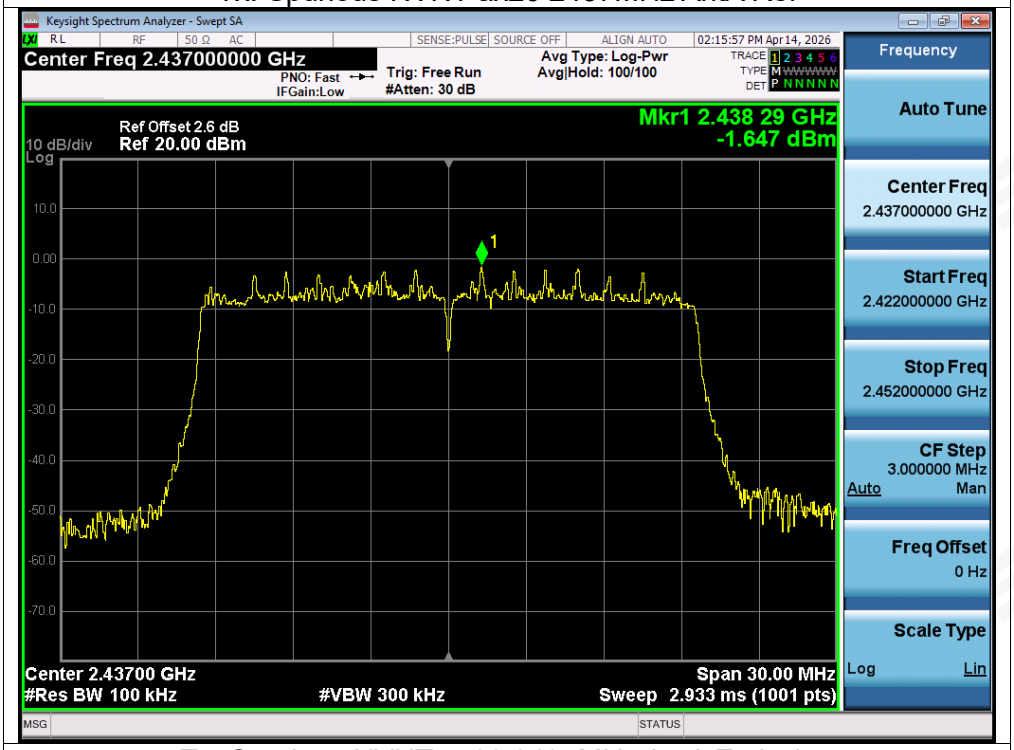
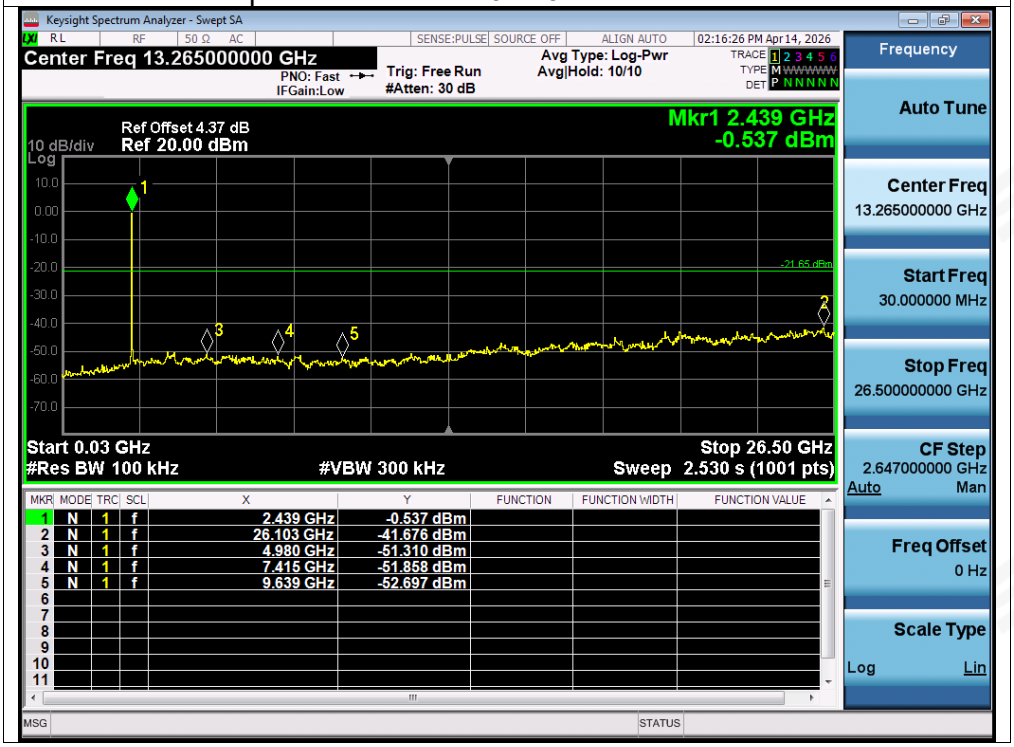
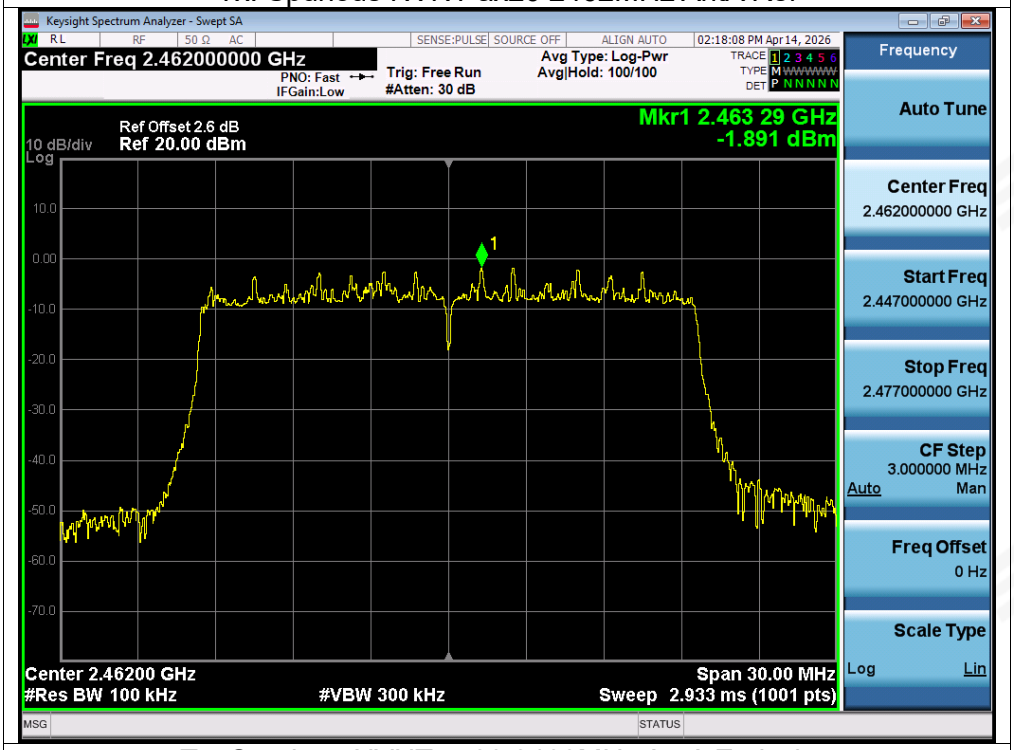


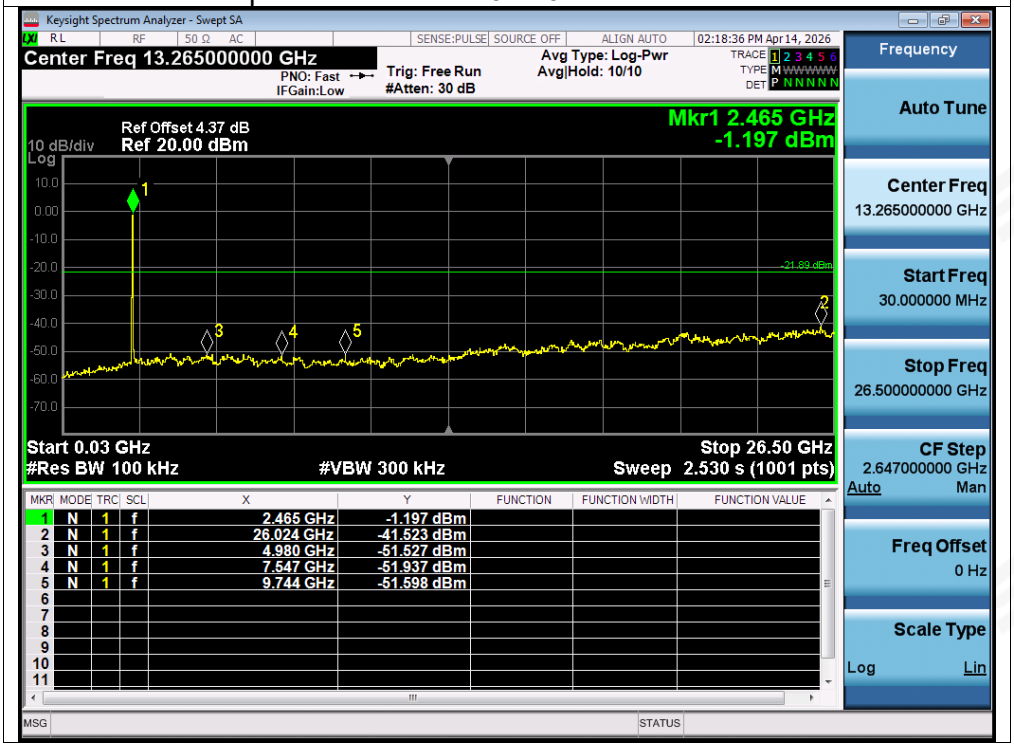
Tx. Spurious NVNT ax20 2437MHz AntA Emission



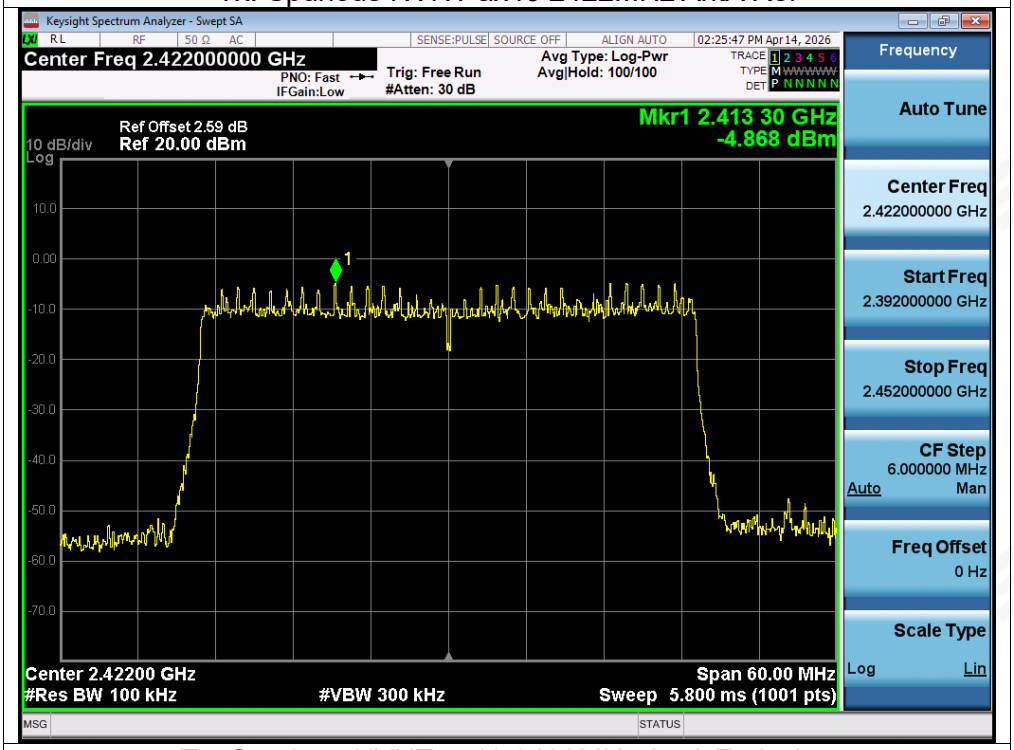
Tx. Spurious NVNT ax20 2462MHz AntA Ref



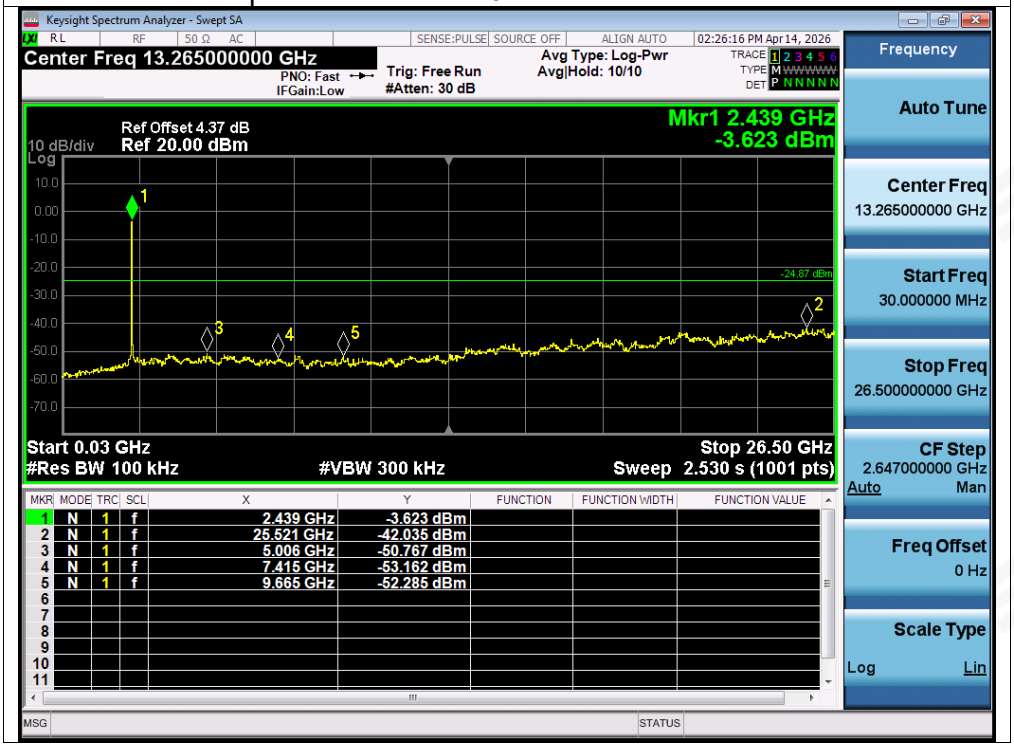
Tx. Spurious NVNT ax20 2462MHz AntA Emission



Tx. Spurious NVNT ax40 2422MHz AntA Ref



Tx. Spurious NVNT ax40 2422MHz AntA Emission



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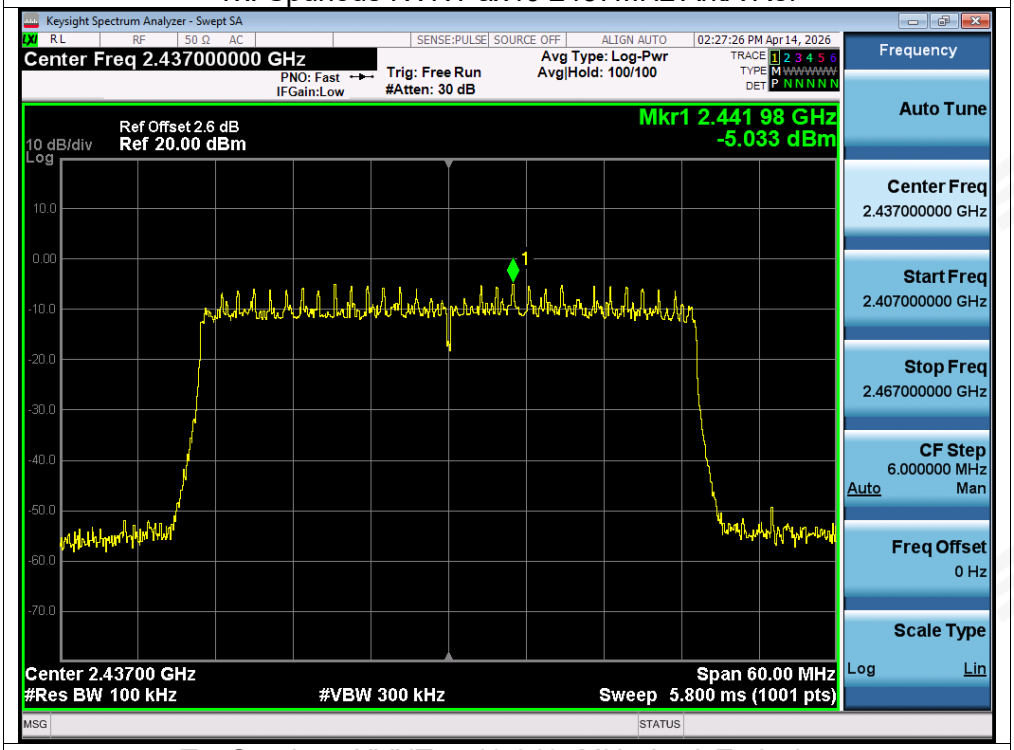
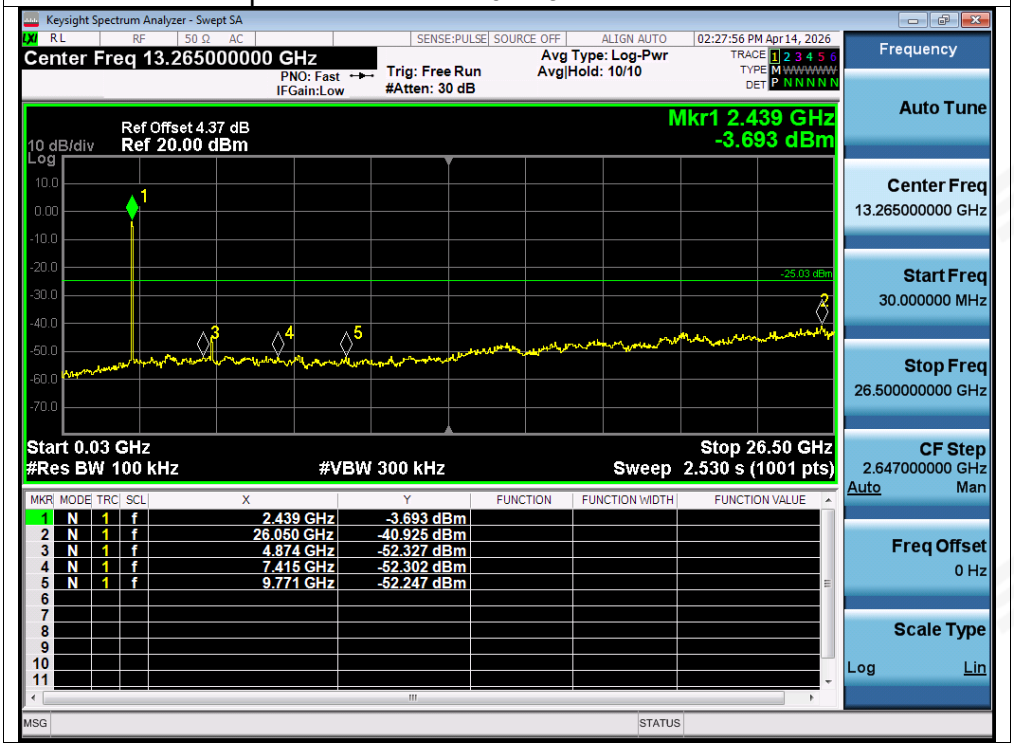
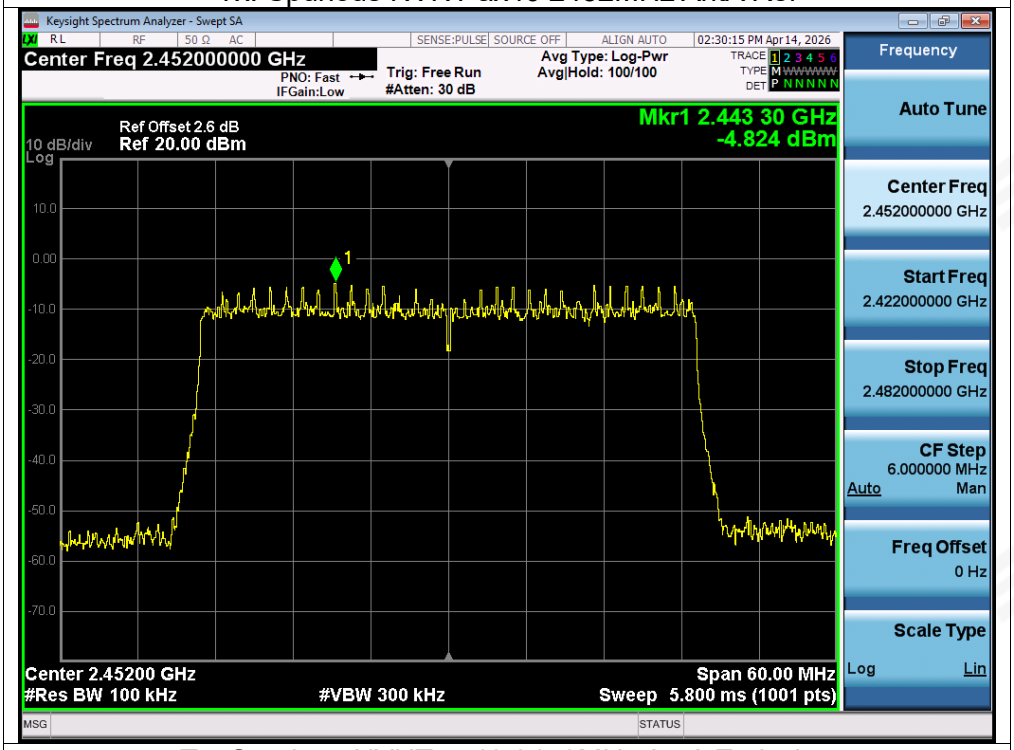


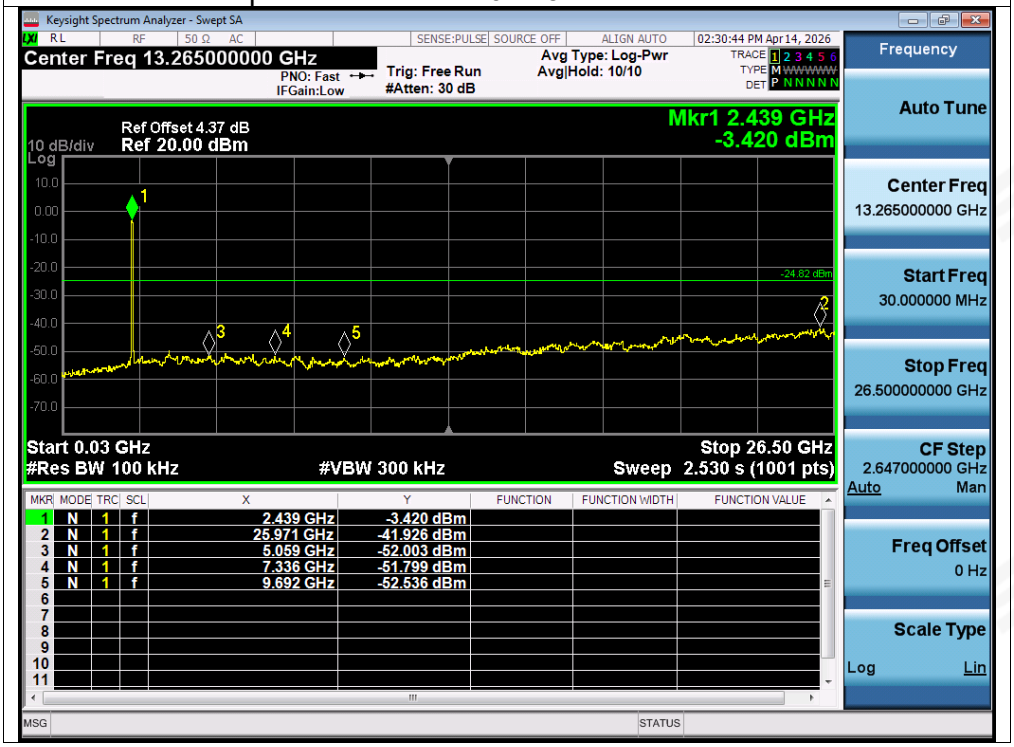
Tx. Spurious NVNT ax40 2437MHz AntA Emission



Tx. Spurious NVNT ax40 2452MHz AntA Ref



Tx. Spurious NVNT ax40 2452MHz AntA Emission

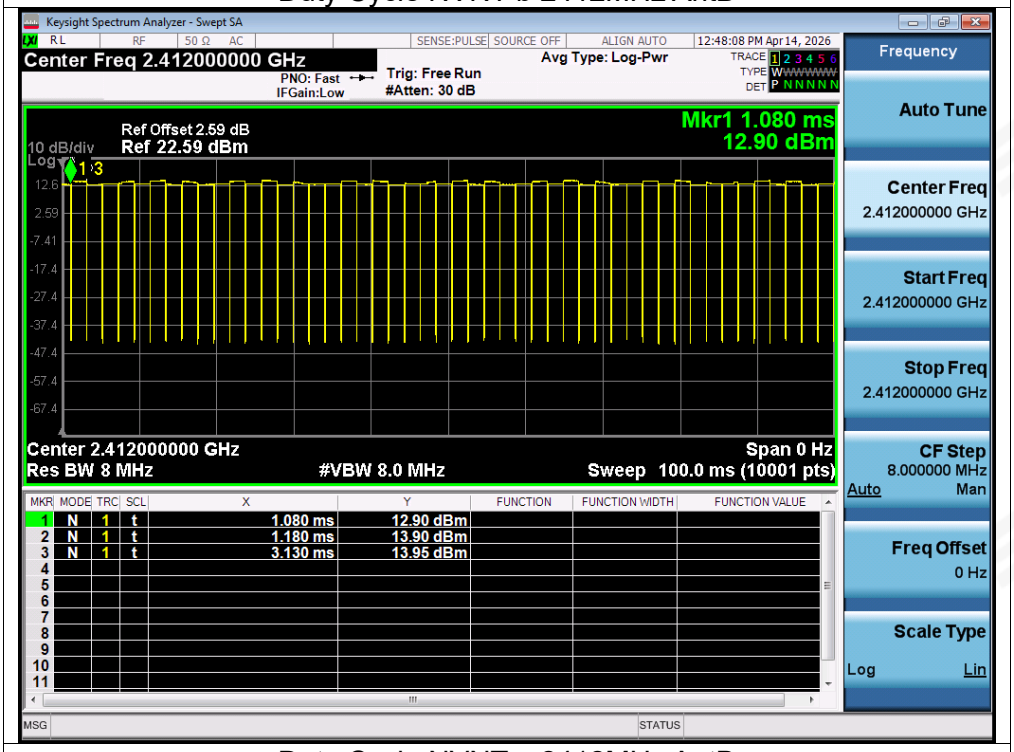


Antenna B

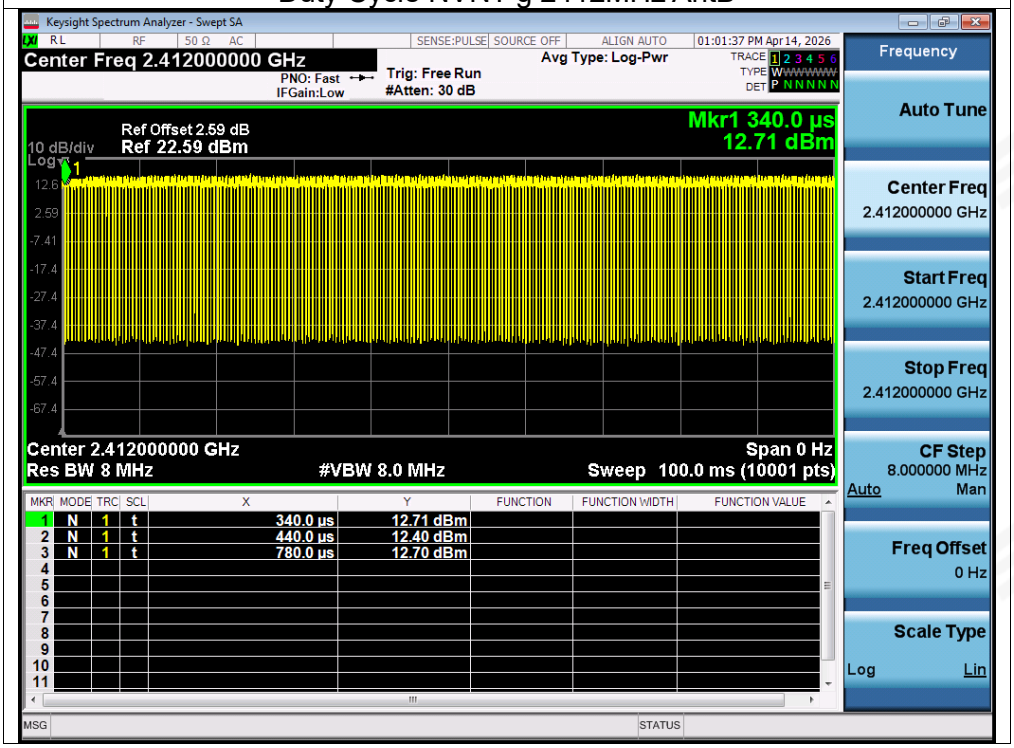
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	AntB	95.12	0.22	0.51
	g			77.27	1.12	2.94
	n20			75	1.25	3.33
	n40	2422		62.96	2.01	5.88
	ax20	2412		73.68	1.33	3.57
	ax40	2422		62.96	2.01	5.88

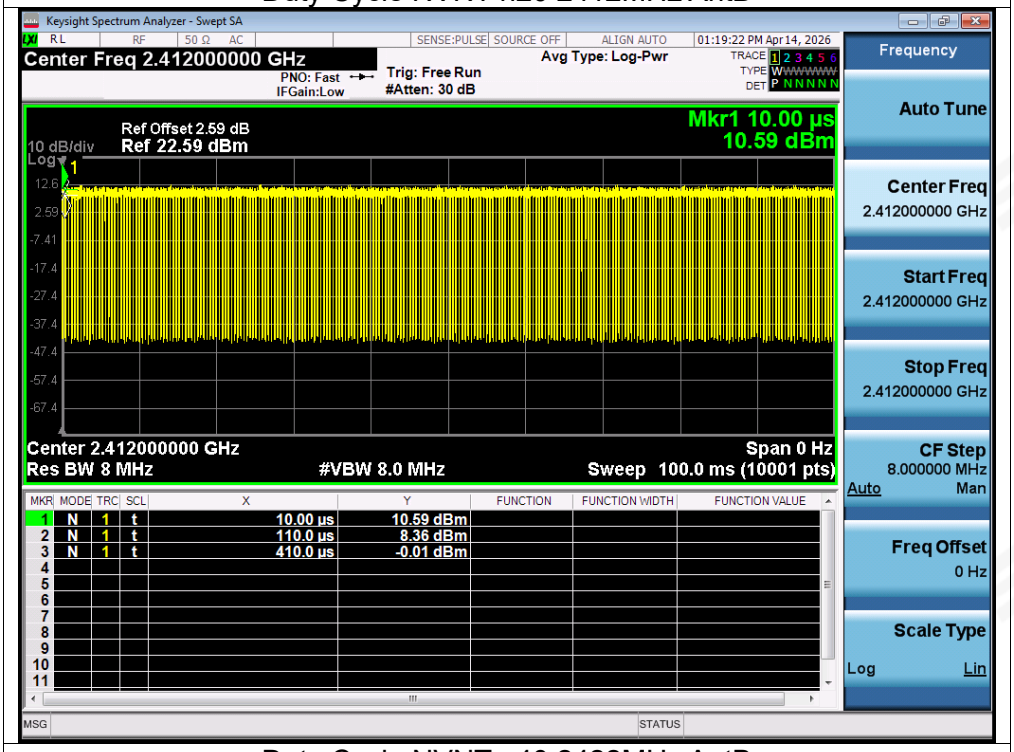
Test Graphs
Duty Cycle NVNT b 2412MHz AntB



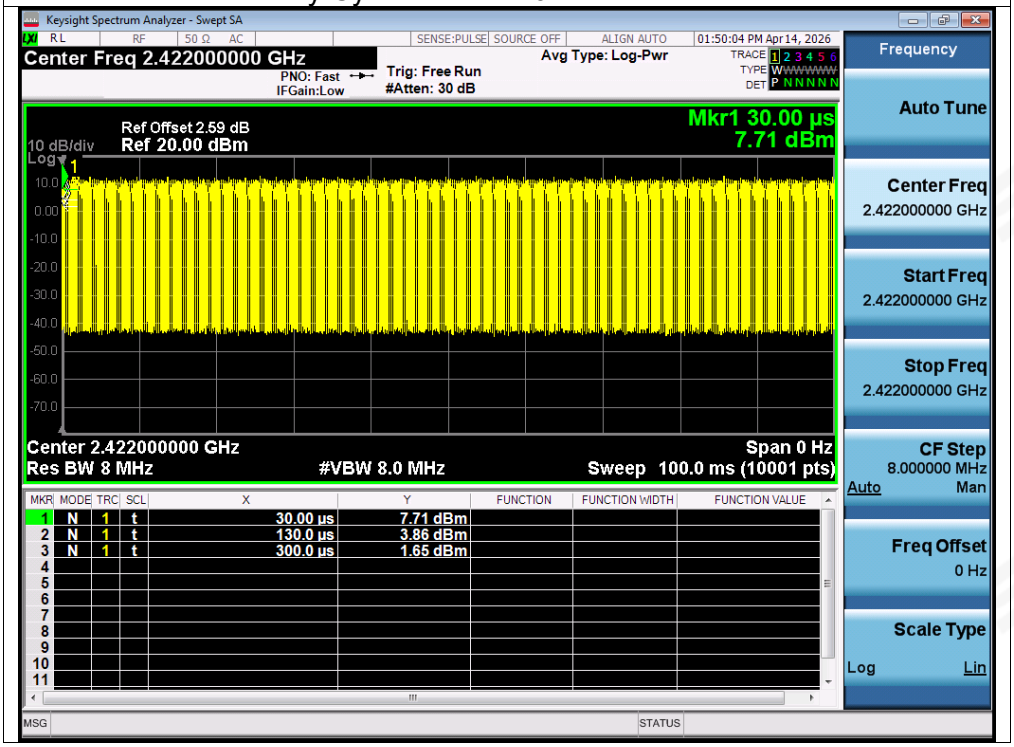
Duty Cycle NVNT g 2412MHz AntB



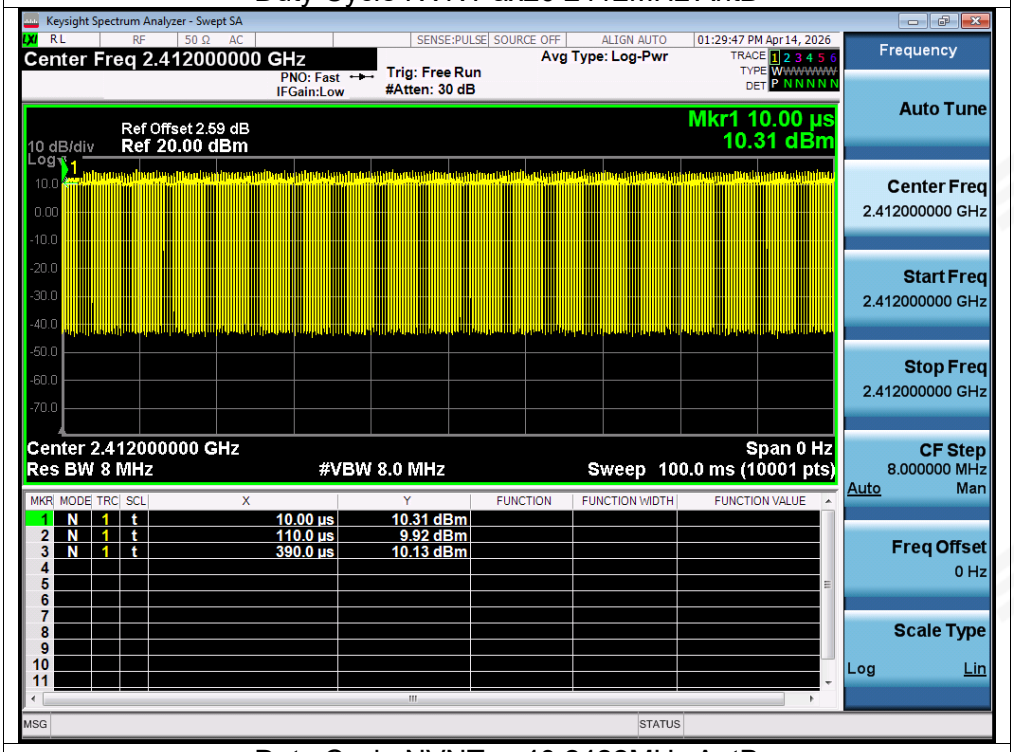
Duty Cycle NVNT n20 2412MHz AntB



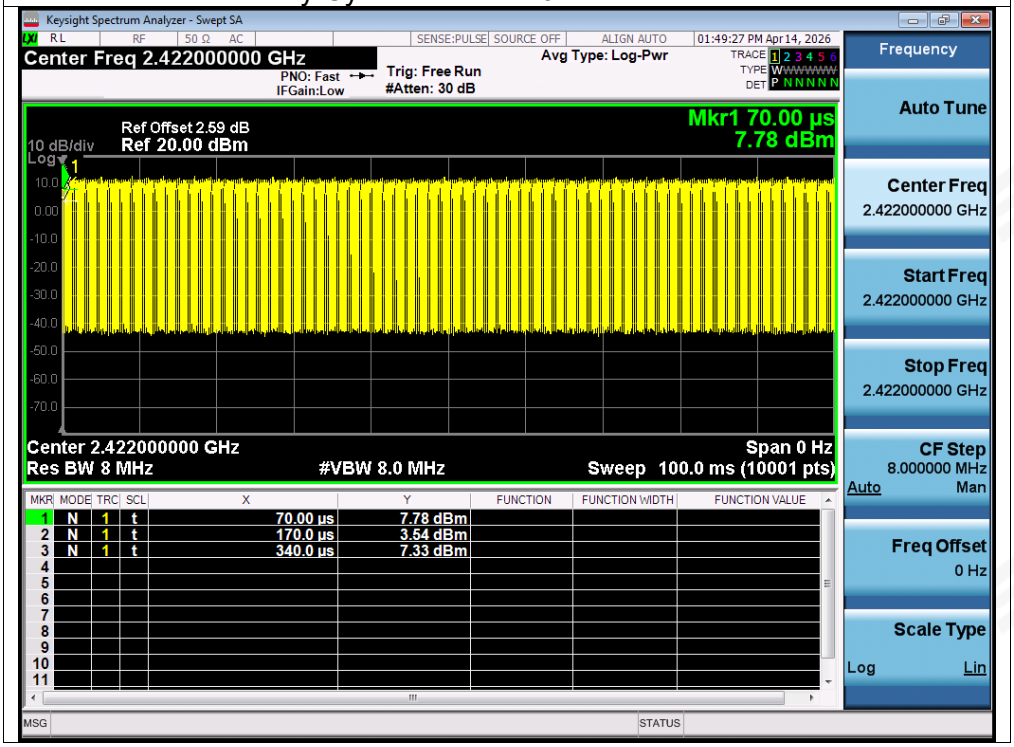
Duty Cycle NVNT n40 2422MHz AntB



Duty Cycle NVNT ax20 2412MHz AntB



Duty Cycle NVNT ax40 2422MHz AntB



Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	AntB	14.25	30	Pass
NVNT	b	2437	AntB	14.05	30	Pass
NVNT	b	2462	AntB	13.95	30	Pass
NVNT	g	2412	AntB	12.74	30	Pass
NVNT	g	2437	AntB	12.84	30	Pass
NVNT	g	2462	AntB	12.41	30	Pass
NVNT	n20	2412	AntB	11.65	30	Pass
NVNT	n20	2437	AntB	11.68	30	Pass
NVNT	n20	2462	AntB	11.22	30	Pass
NVNT	n40	2422	AntB	10.57	30	Pass
NVNT	n40	2437	AntB	10.61	30	Pass
NVNT	n40	2452	AntB	10.47	30	Pass
NVNT	ax20	2412	AntB	11.45	30	Pass
NVNT	ax20	2437	AntB	11.55	30	Pass
NVNT	ax20	2462	AntB	11.19	30	Pass
NVNT	ax40	2422	AntB	10.63	30	Pass
NVNT	ax40	2437	AntB	10.77	30	Pass
NVNT	ax40	2452	AntB	10.52	30	Pass

Condi-tion	Mode	Fre-quency (MHz)	Conducted Power (dBm)				Verdict
			ANT A	ANT B	Total	Limit	
NVNT	b	2412	13.87	14.25	/	30	Pass
NVNT	b	2437	14.07	14.05	/	30	Pass
NVNT	b	2462	13.85	13.95	/	30	Pass
NVNT	g	2412	12.28	12.74	/	30	Pass
NVNT	g	2437	12.23	12.84	/	30	Pass
NVNT	g	2462	11.99	12.41	/	30	Pass
NVNT	n20	2412	11.05	11.65	14.37	30	Pass
NVNT	n20	2437	11.06	11.68	14.39	30	Pass
NVNT	n20	2462	10.83	11.22	14.04	30	Pass
NVNT	n40	2422	10.12	10.57	13.36	30	Pass
NVNT	n40	2437	9.9	10.61	13.28	30	Pass
NVNT	n40	2452	10.05	10.47	13.28	30	Pass
NVNT	ax20	2412	10.9	11.45	14.19	30	Pass
NVNT	ax20	2437	10.9	11.55	14.25	30	Pass
NVNT	ax20	2462	10.69	11.19	13.96	30	Pass
NVNT	ax40	2422	9.98	10.63	13.33	30	Pass
NVNT	ax40	2437	9.97	10.77	13.40	30	Pass
NVNT	ax40	2452	9.98	10.52	13.27	30	Pass

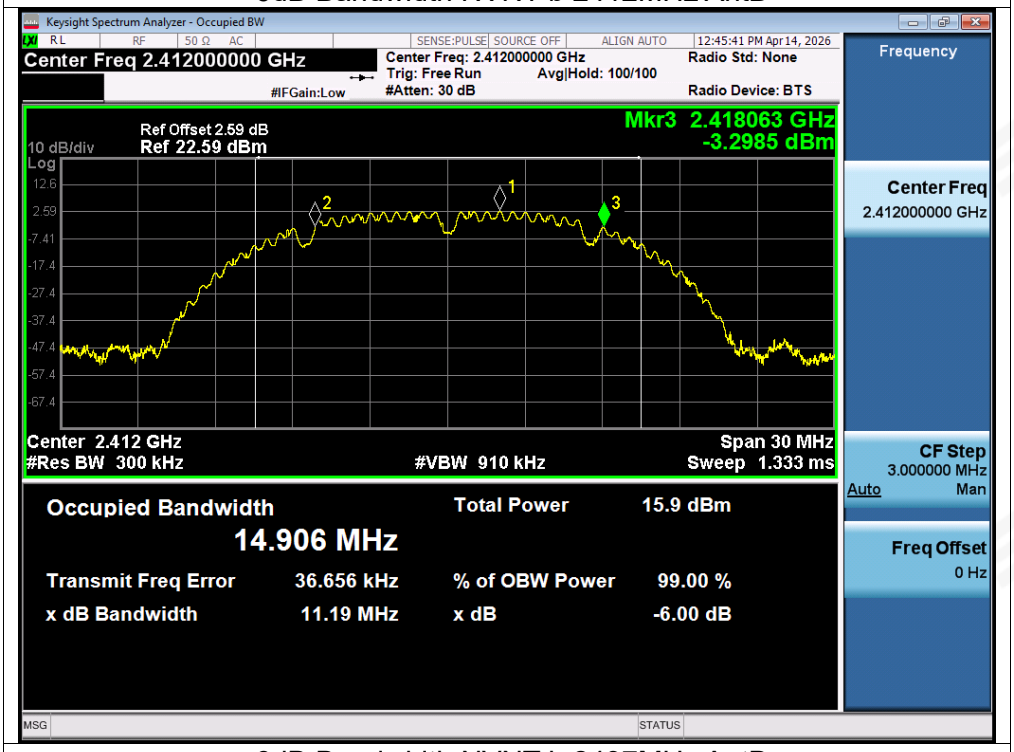
Note:
Antenna Gain=2.1 dBi.
Directional gain = GANT + 10 log(NANT) dBi=2.1+10log(2)=5.11dBi

-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	AntB	11.19	0.5	Pass
		2437		11.15	0.5	Pass
		2462		11.18	0.5	Pass
	g	2412		16.2	0.5	Pass
		2437		16.38	0.5	Pass
		2462		16.29	0.5	Pass
	n20	2412		17.26	0.5	Pass
		2437		17.38	0.5	Pass
		2462		17.49	0.5	Pass
	n40	2422		36.49	0.5	Pass
		2437		36.17	0.5	Pass
		2452		36.42	0.5	Pass
	ax20	2412		18.65	0.5	Pass
		2437		18.88	0.5	Pass
		2462		18.94	0.5	Pass
	ax40	2422		37.54	0.5	Pass
		2437		37.07	0.5	Pass
		2452		37.4	0.5	Pass

Test Graphs

-6dB Bandwidth NVNT b 2412MHz AntB



-6dB Bandwidth NVNT b 2437MHz AntB