

FCC Appendix RF Test Data for 2.4G WIFI

FCC ID : 2A525-AIT001

Company : Jiangsu Zhong Heng Pet Articles Joint-stock CO., LTD

EUT : AI TOY

Model Number : AIT001

Report No. : CTA26063003602

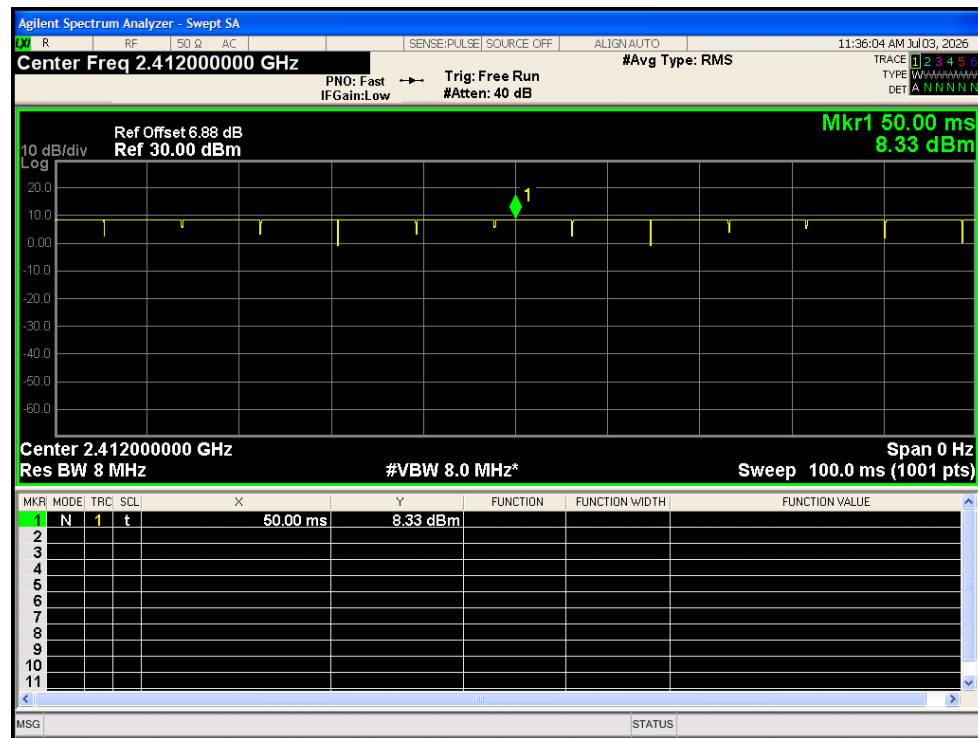
Reviewed By : Eric Wang

Duty Cycle

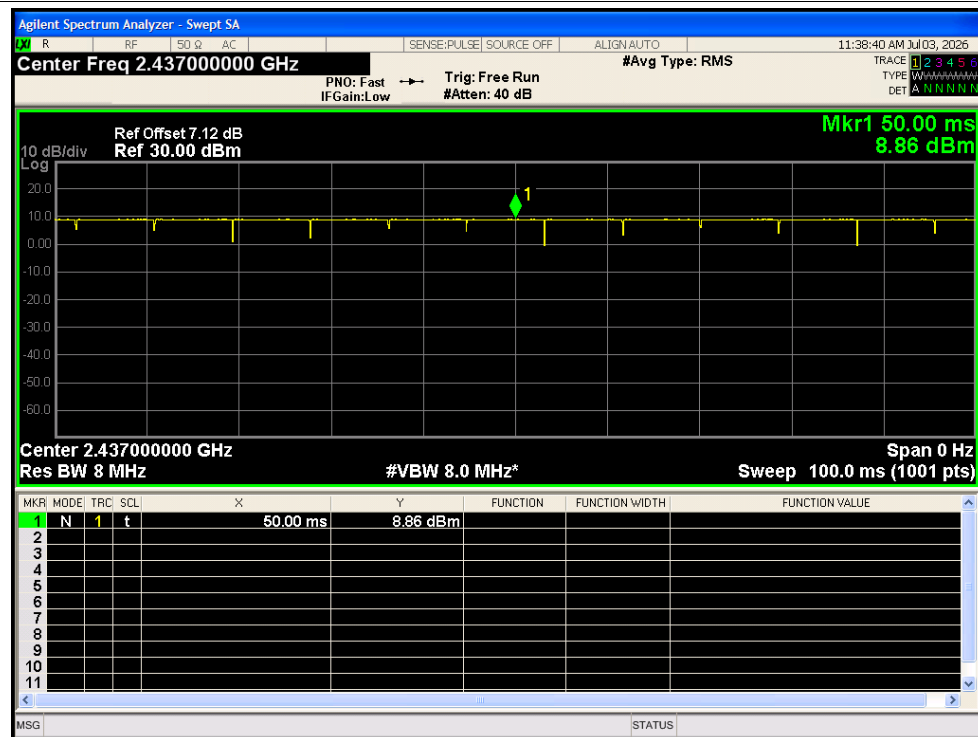
Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	100	0	0
NVNT	b	2437	100	0	0
NVNT	b	2462	100	0	0
NVNT	g	2412	100	0	0
NVNT	g	2437	100	0	0
NVNT	g	2462	100	0	0
NVNT	n20	2412	100	0	0
NVNT	n20	2437	100	0	0
NVNT	n20	2462	100	0	0
NVNT	n40	2422	100	0	0
NVNT	n40	2437	100	0	0
NVNT	n40	2452	100	0	0
NVNT	ax20	2412	100	0	0
NVNT	ax20	2437	100	0	0
NVNT	ax20	2462	100	0	0
NVNT	ax40	2422	100	0	0
NVNT	ax40	2437	100	0	0
NVNT	ax40	2452	100	0	0

Test Graphs

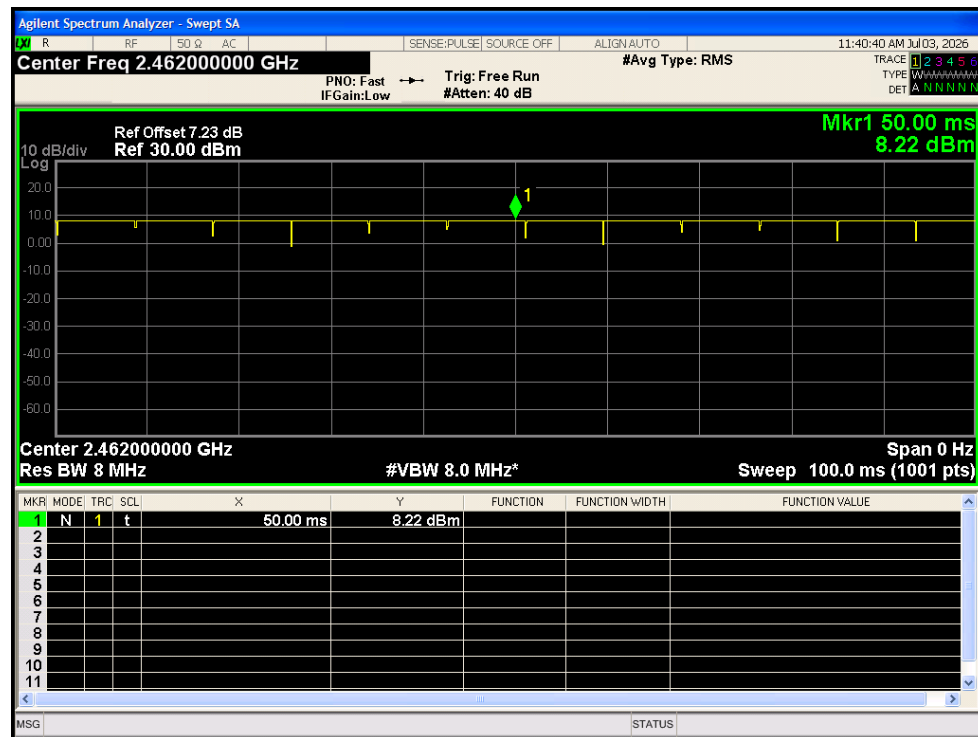
Duty Cycle NVNT b 2412MHz



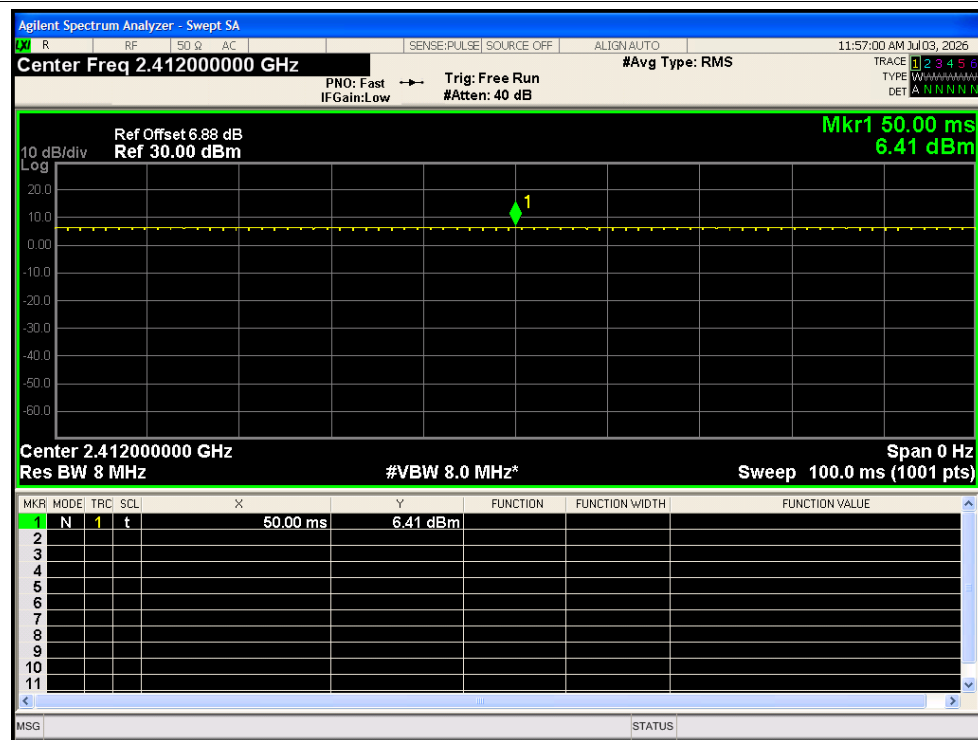
Duty Cycle NVNT b 2437MHz



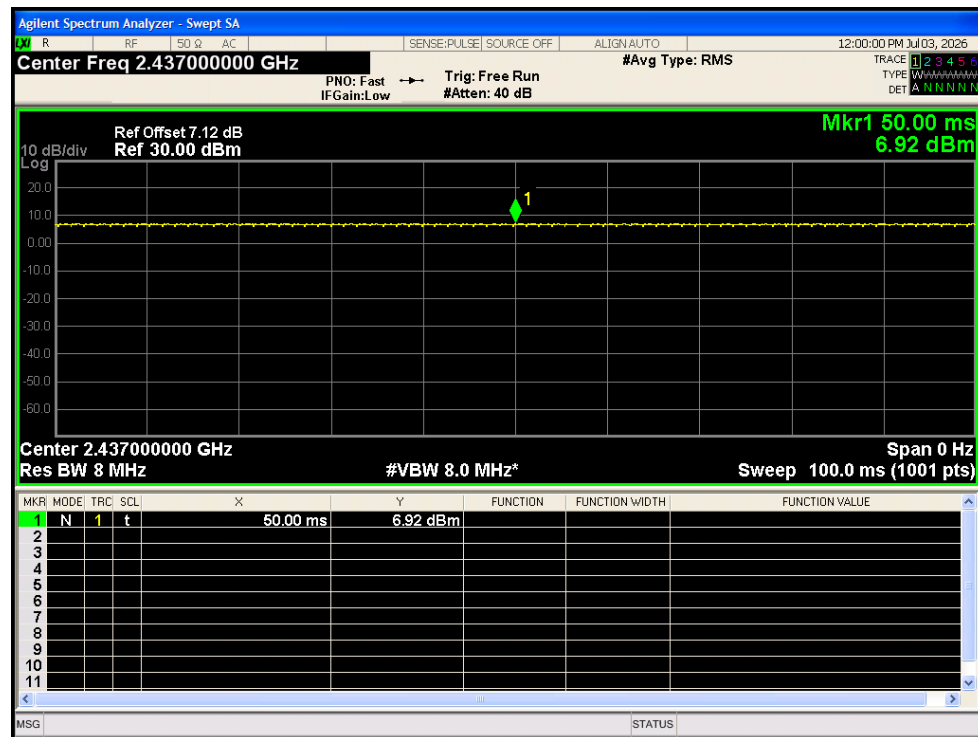
Duty Cycle NVNT b 2462MHz



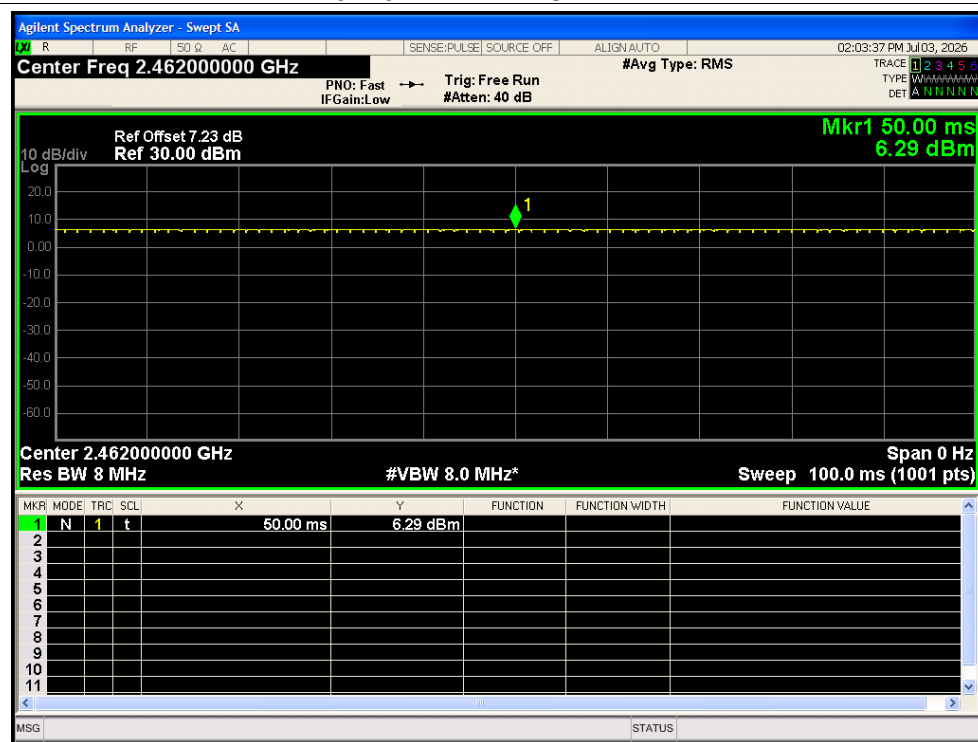
Duty Cycle NVNT g 2412MHz



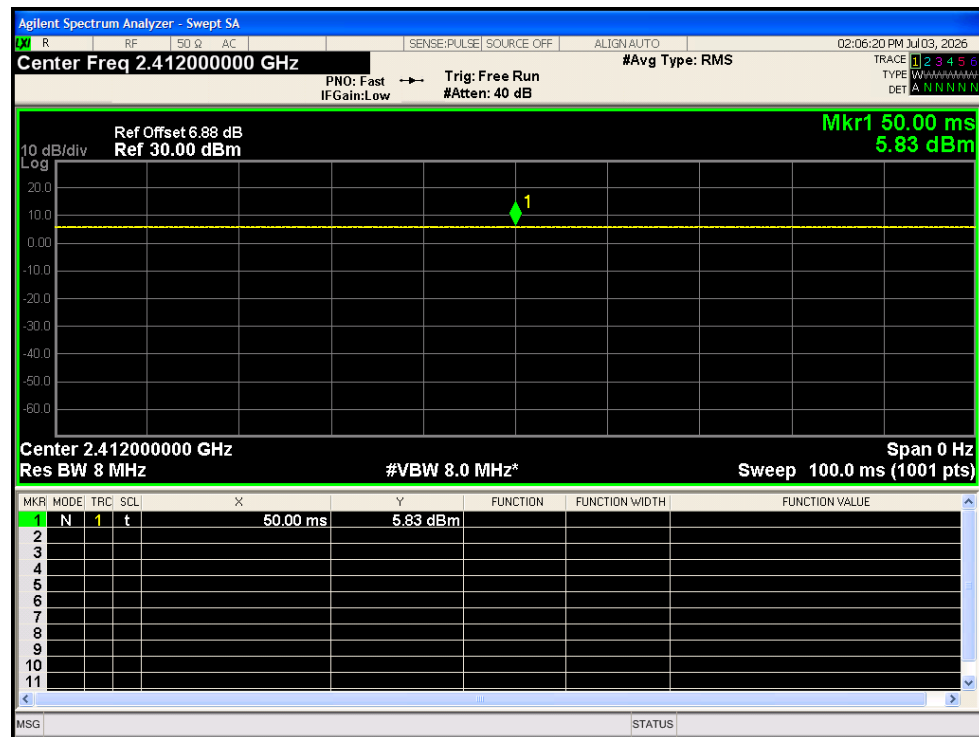
Duty Cycle NVNT g 2437MHz



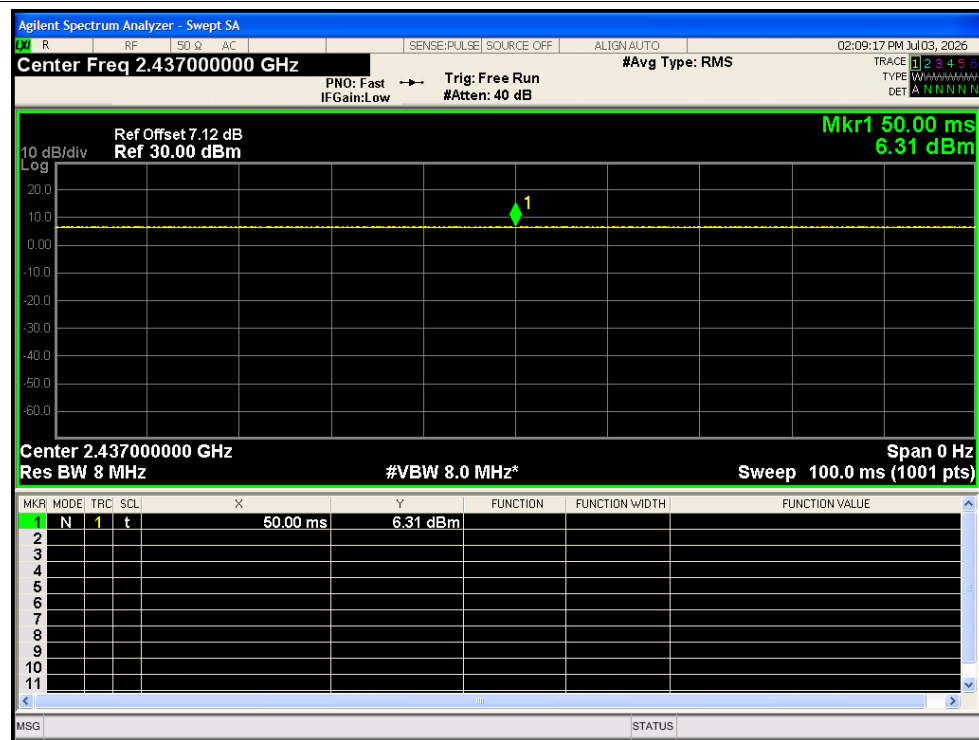
Duty Cycle NVNT g 2462MHz



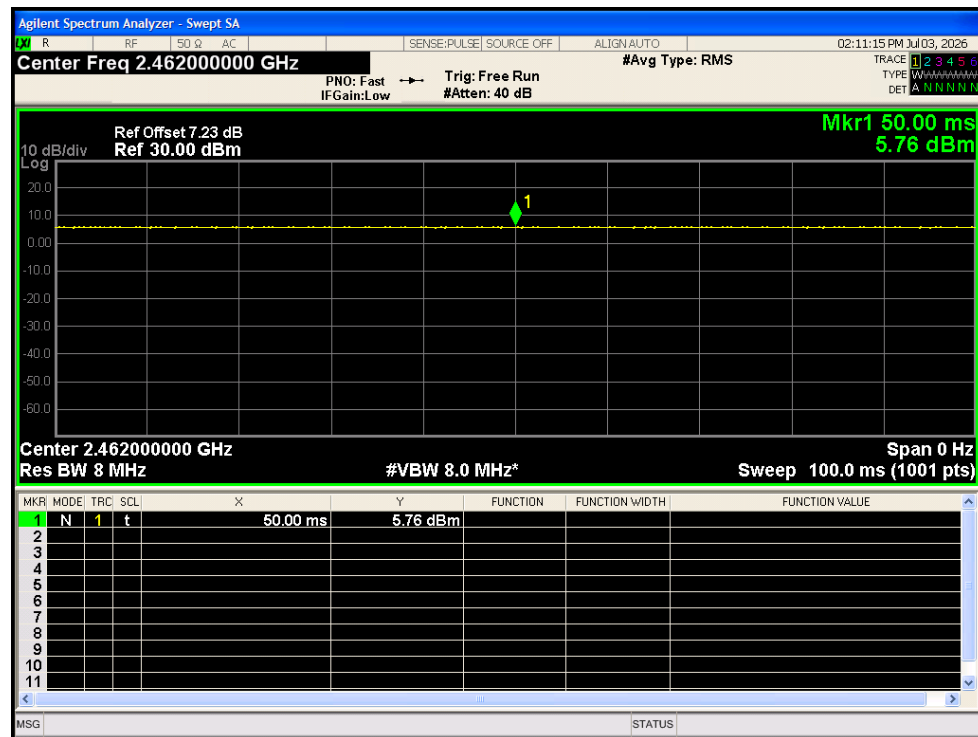
Duty Cycle NVNT n20 2412MHz



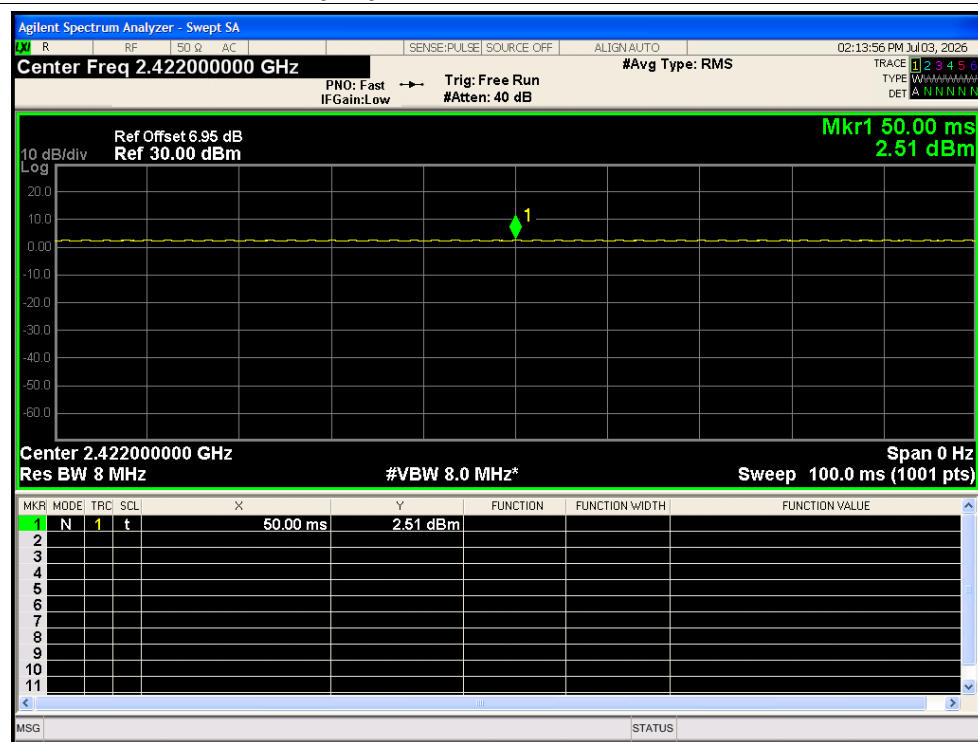
Duty Cycle NVNT n20 2437MHz



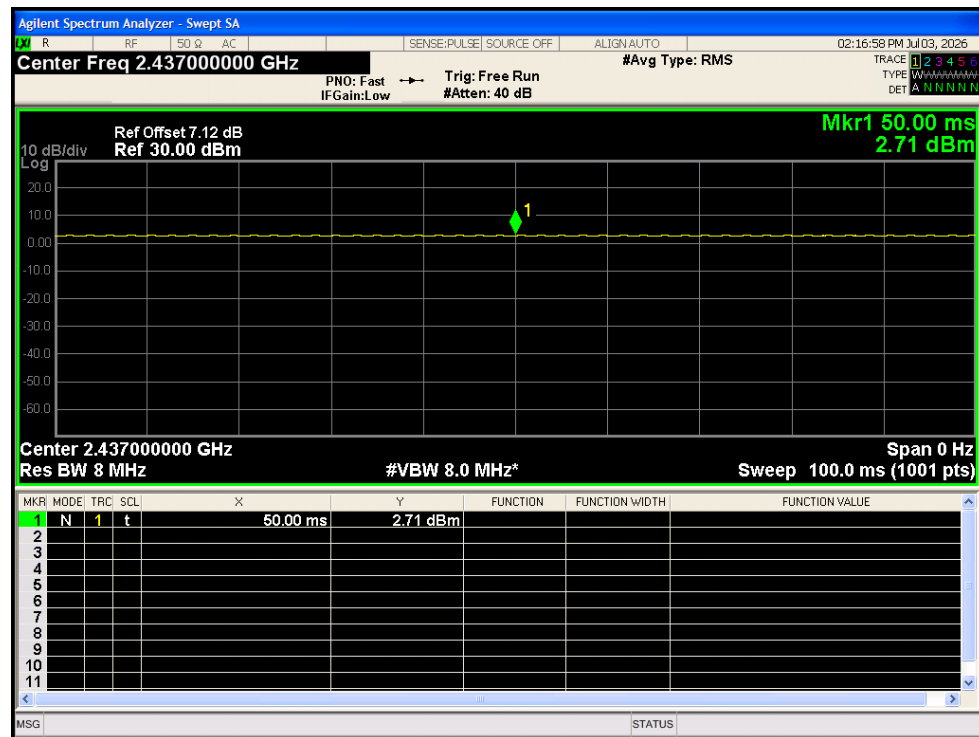
Duty Cycle NVNT n20 2462MHz



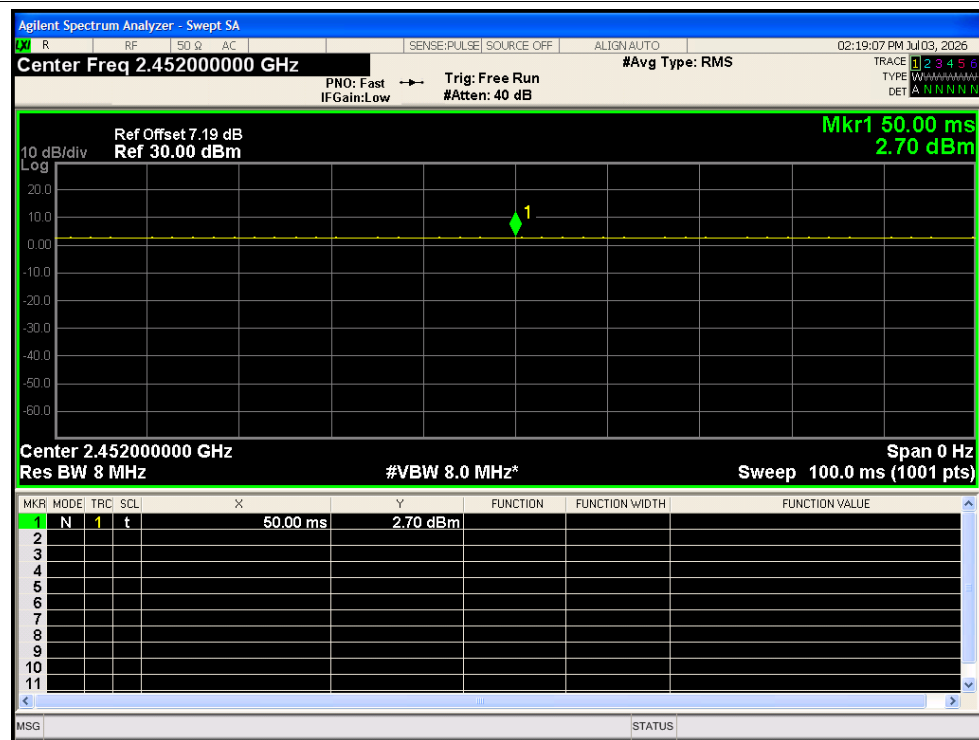
Duty Cycle NVNT n40 2422MHz



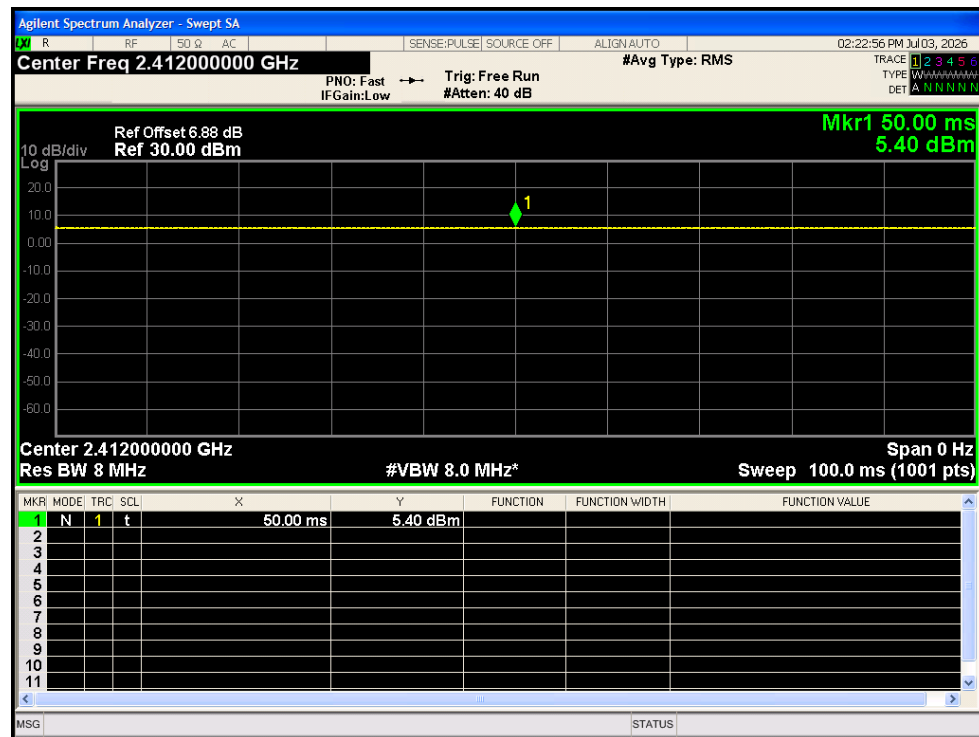
Duty Cycle NVNT n40 2437MHz



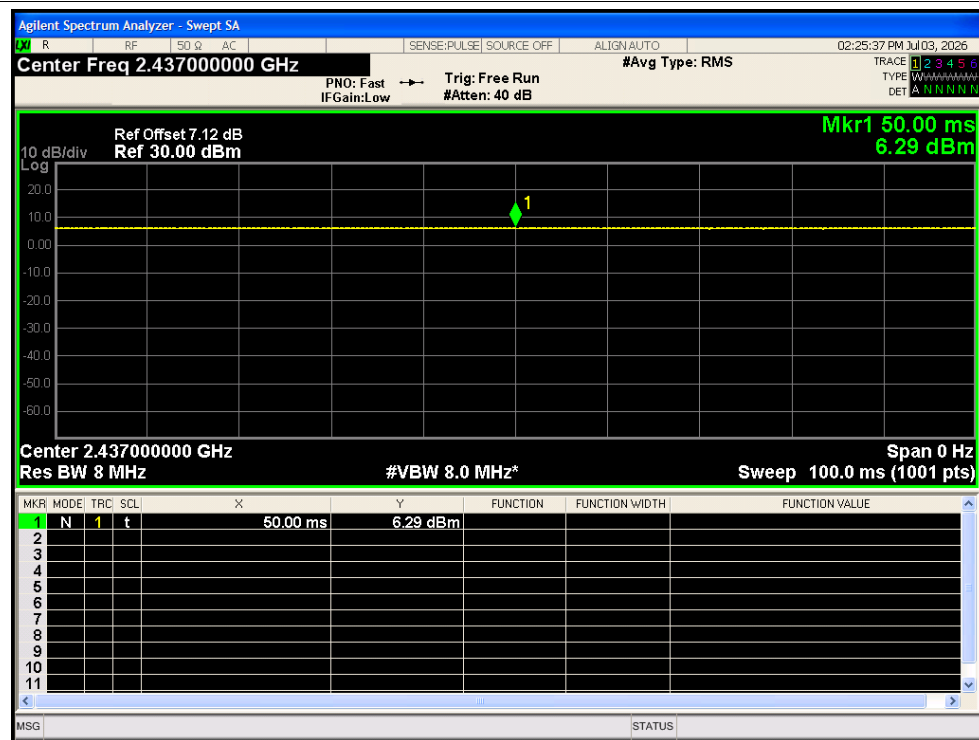
Duty Cycle NVNT n40 2452MHz



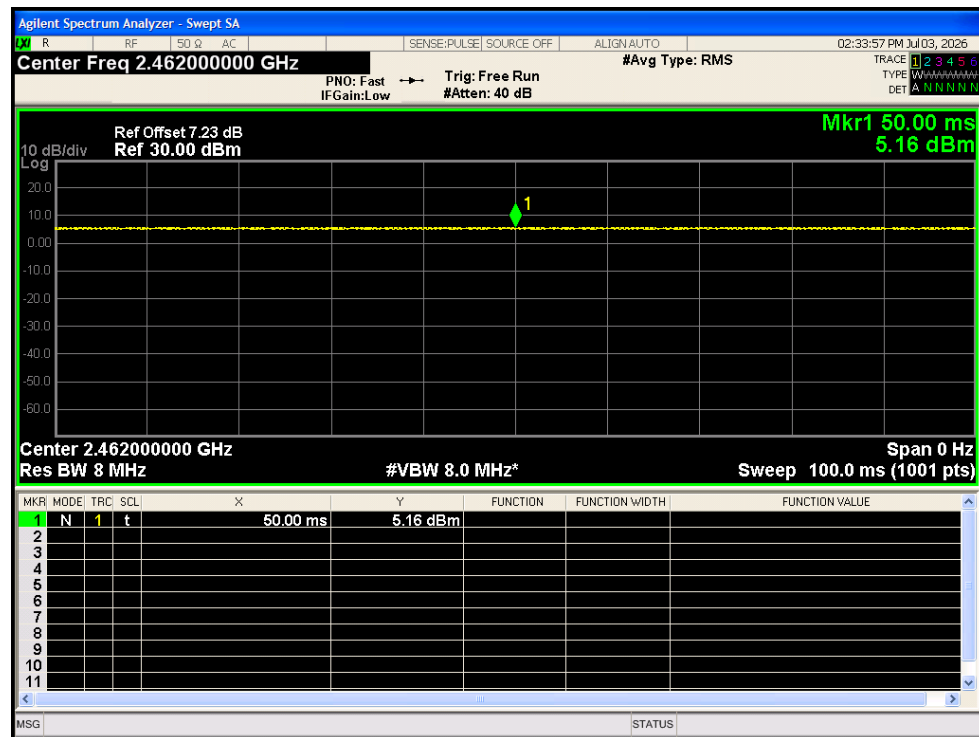
Duty Cycle NVNT ax20 2412MHz



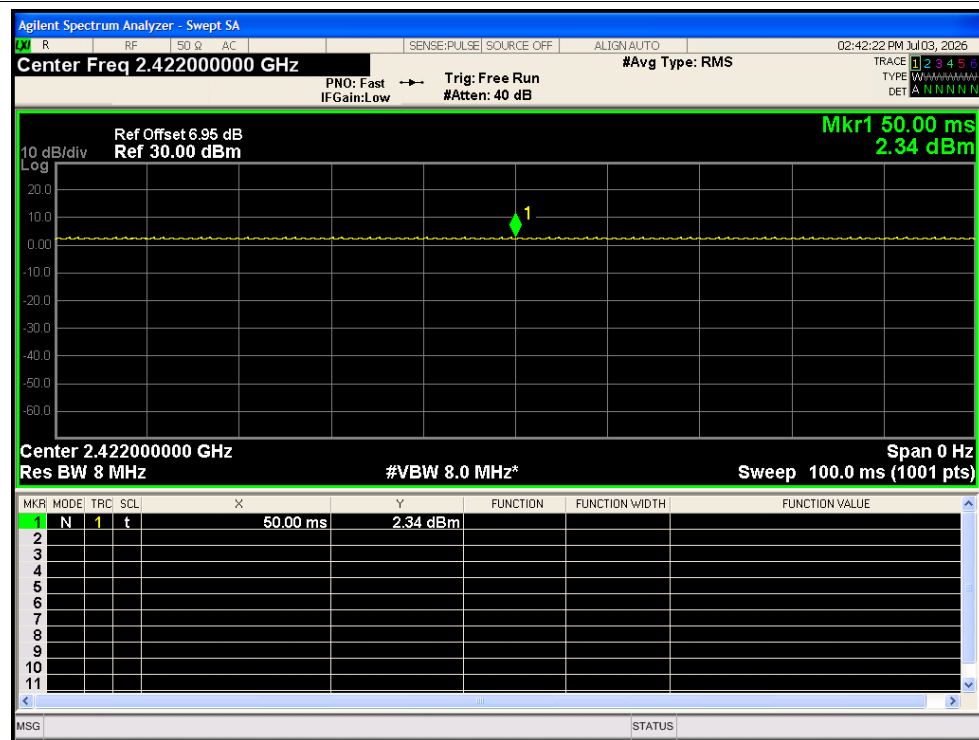
Duty Cycle NVNT ax20 2437MHz



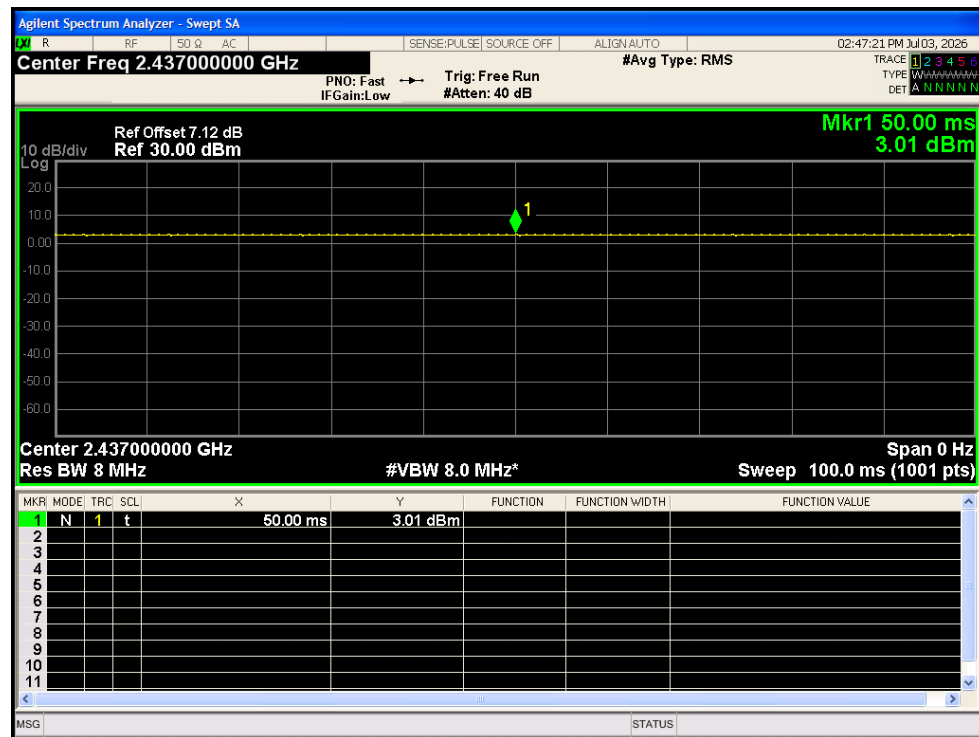
Duty Cycle NVNT ax20 2462MHz



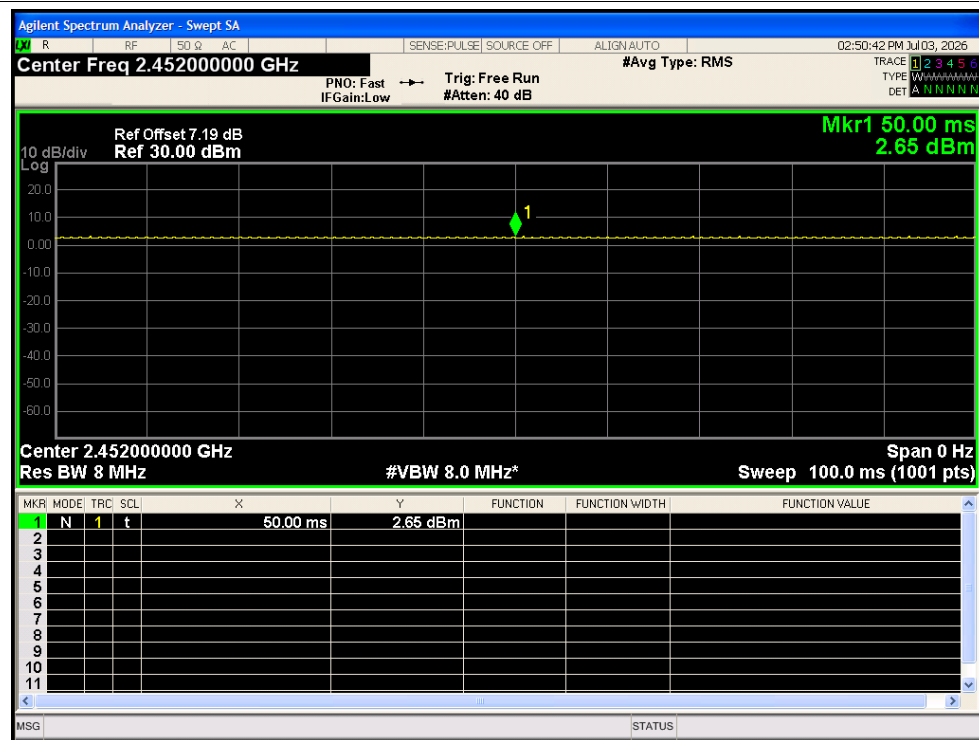
Duty Cycle NVNT ax40 2422MHz



Duty Cycle NVNT ax40 2437MHz



Duty Cycle NVNT ax40 2452MHz

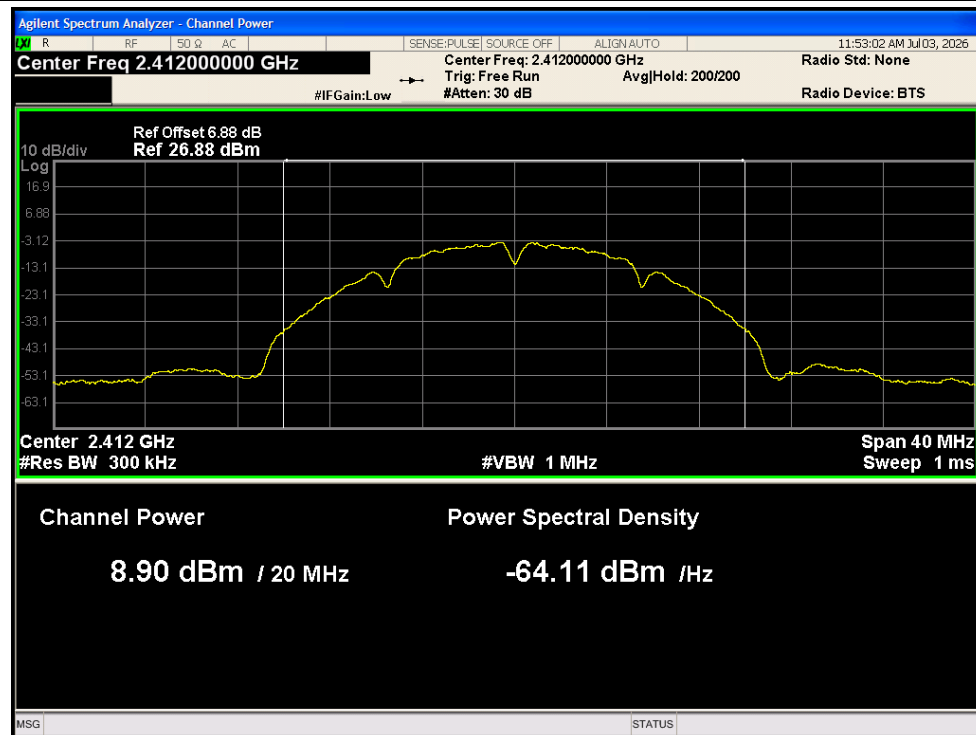


Maximum Conducted Output Power

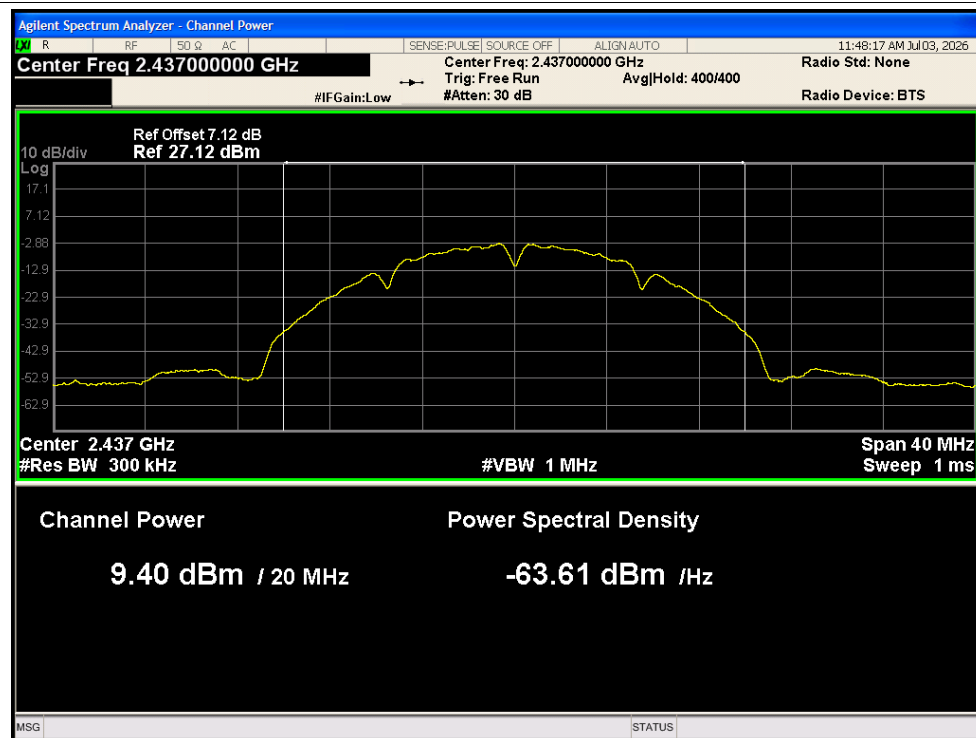
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	8.90	30	Pass
NVNT	b	2437	9.40	30	Pass
NVNT	b	2462	8.90	30	Pass
NVNT	g	2412	8.33	30	Pass
NVNT	g	2437	9.31	30	Pass
NVNT	g	2462	8.42	30	Pass
NVNT	n20	2412	8.15	30	Pass
NVNT	n20	2437	8.66	30	Pass
NVNT	n20	2462	8.01	30	Pass
NVNT	n40	2422	7.80	30	Pass
NVNT	n40	2437	8.17	30	Pass
NVNT	n40	2452	8.06	30	Pass
NVNT	ax20	2412	7.88	30	Pass
NVNT	ax20	2437	8.41	30	Pass
NVNT	ax20	2462	7.66	30	Pass
NVNT	ax40	2422	7.59	30	Pass
NVNT	ax40	2437	8.15	30	Pass
NVNT	ax40	2452	7.91	30	Pass

Test Graphs

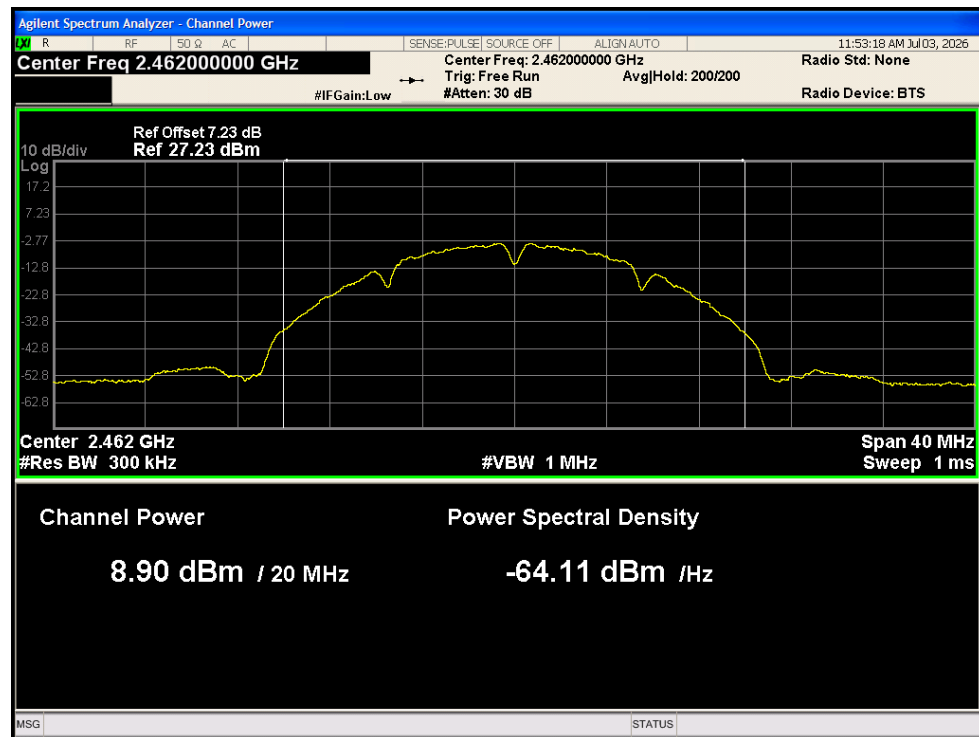
Power NVNT b 2412MHz



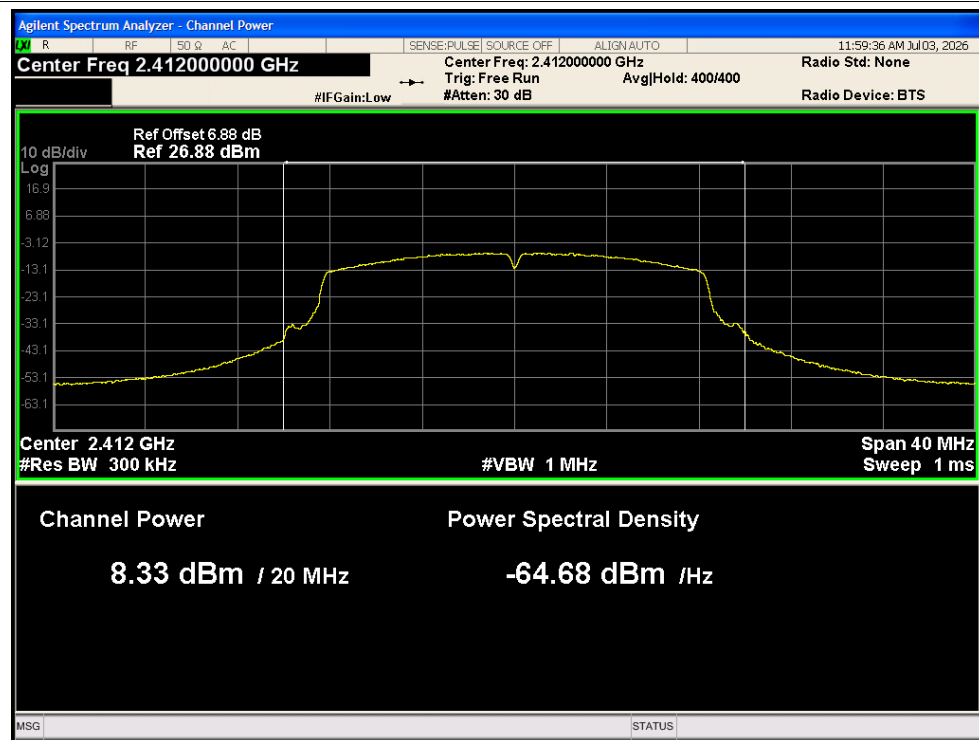
Power NVNT b 2437MHz



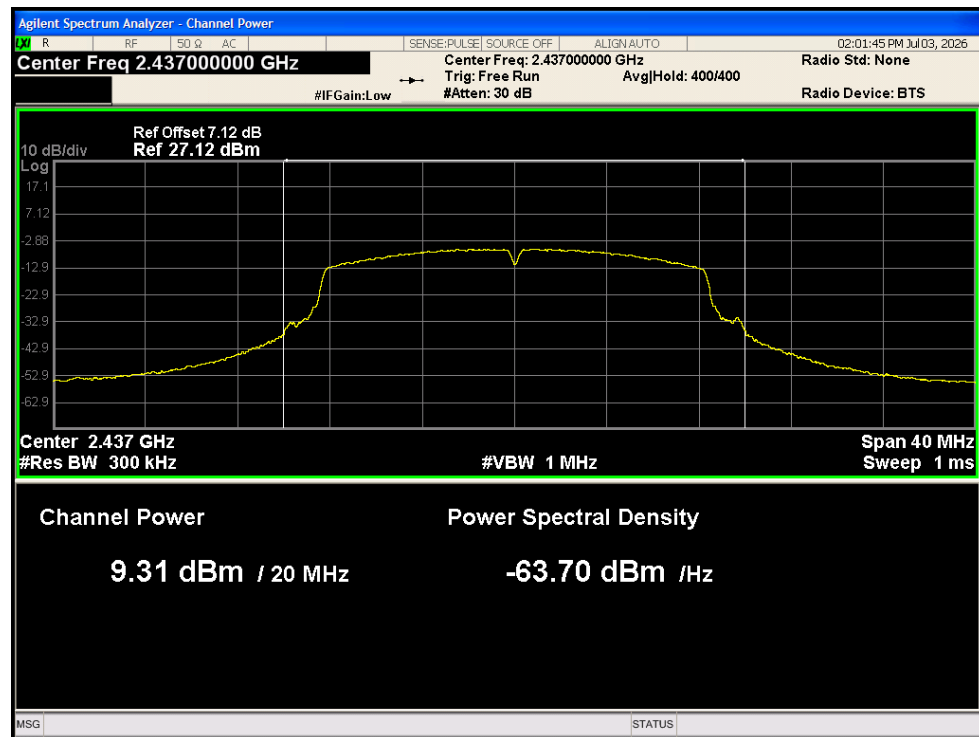
Power NVNT b 2462MHz



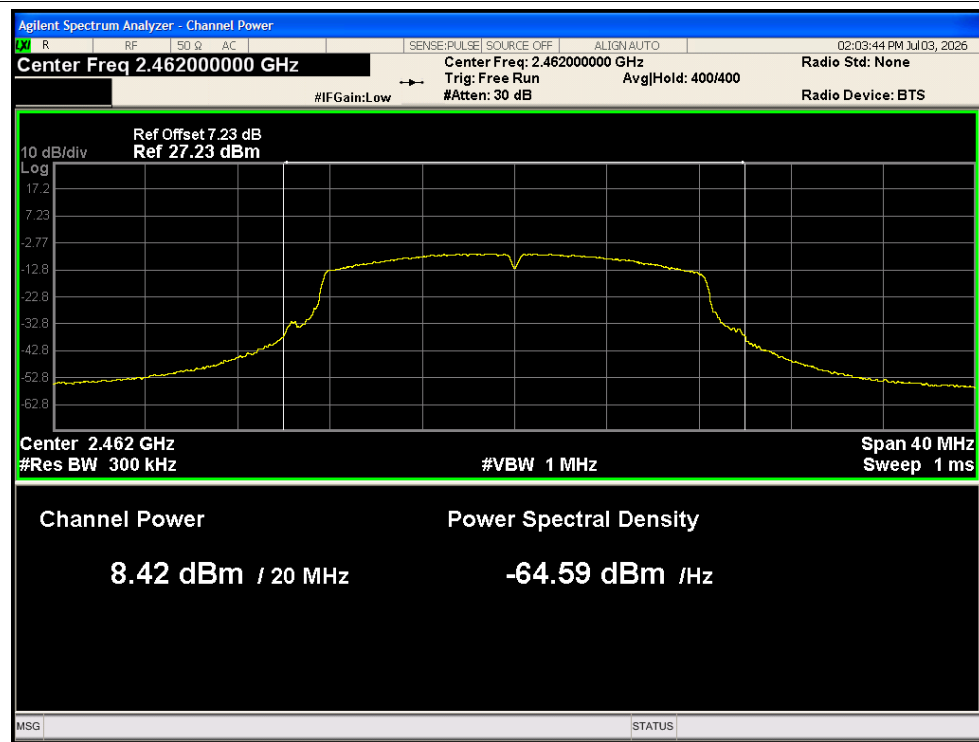
Power NVNT g 2412MHz



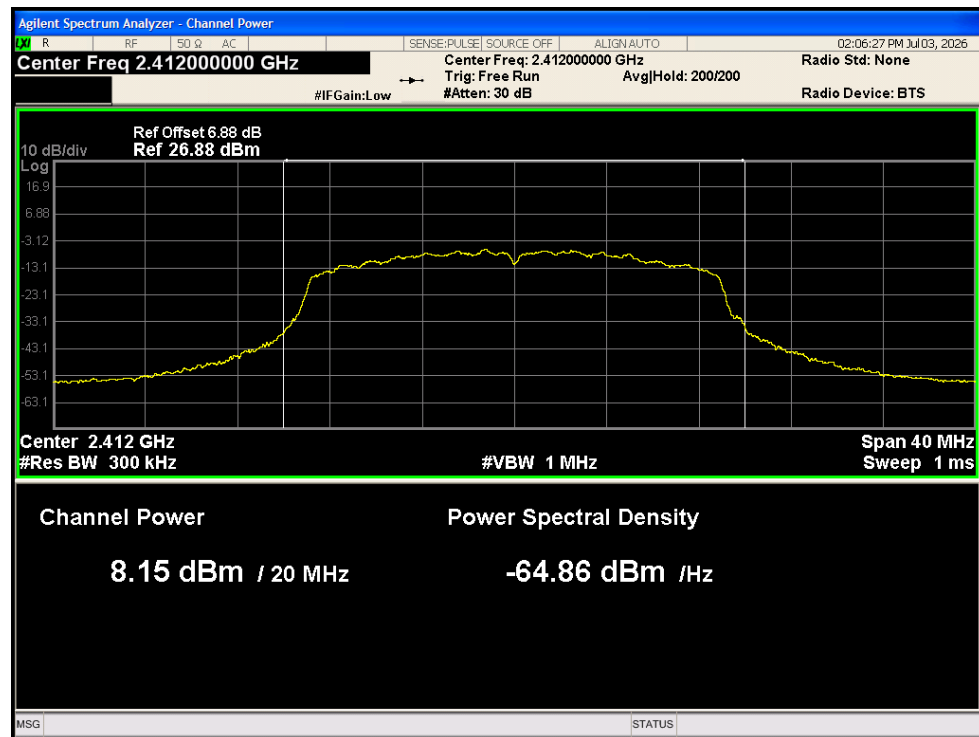
Power NVNT g 2437MHz



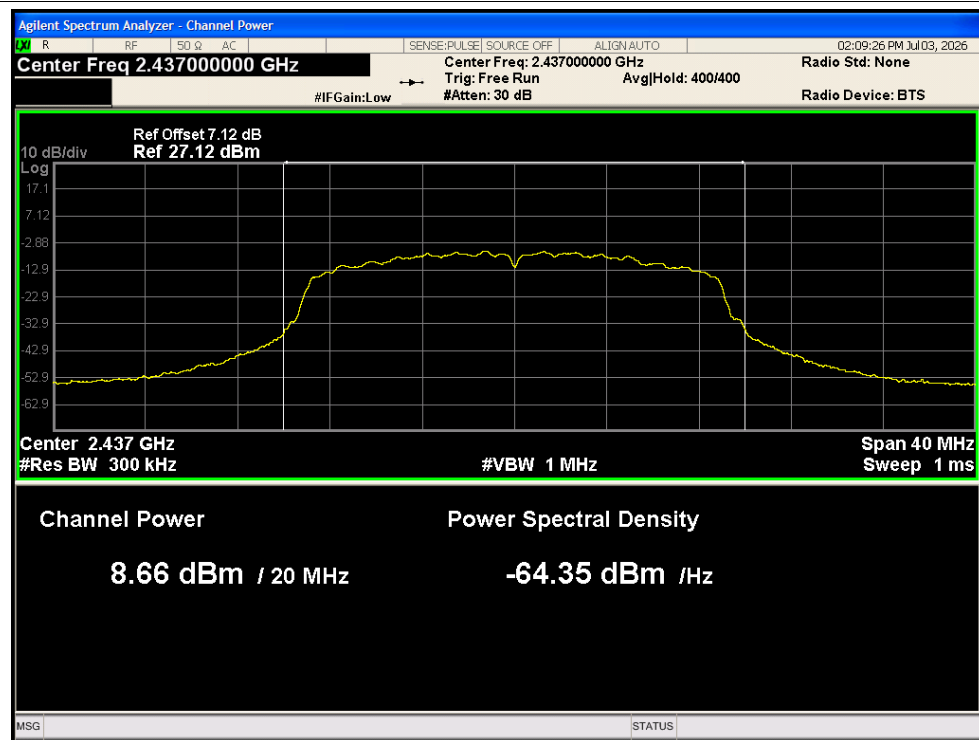
Power NVNT g 2462MHz



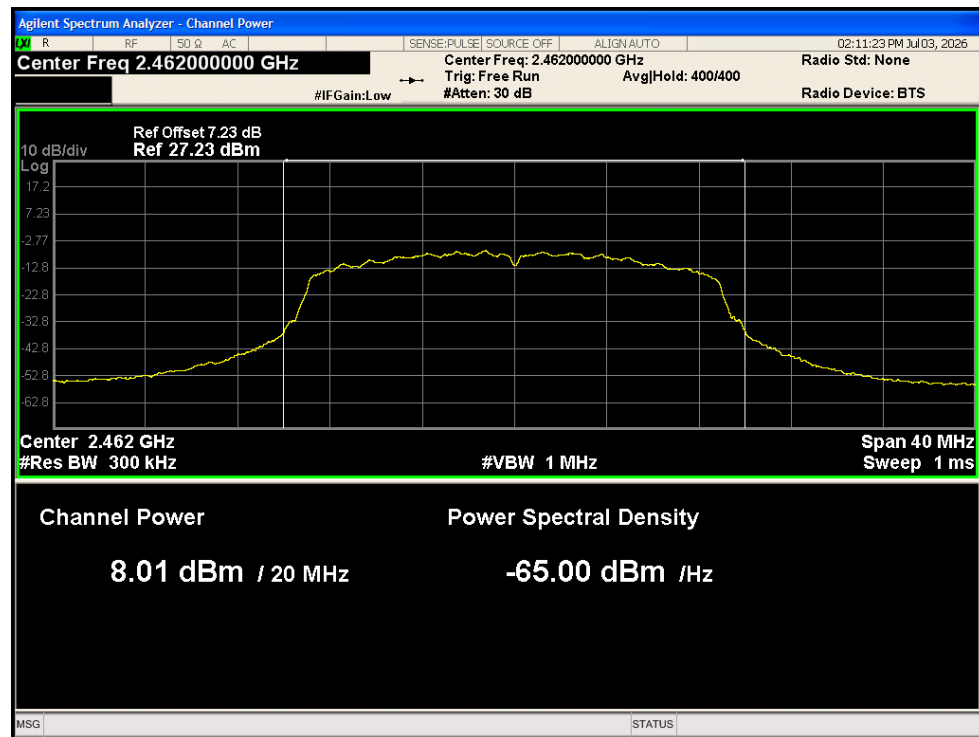
Power NVNT n20 2412MHz



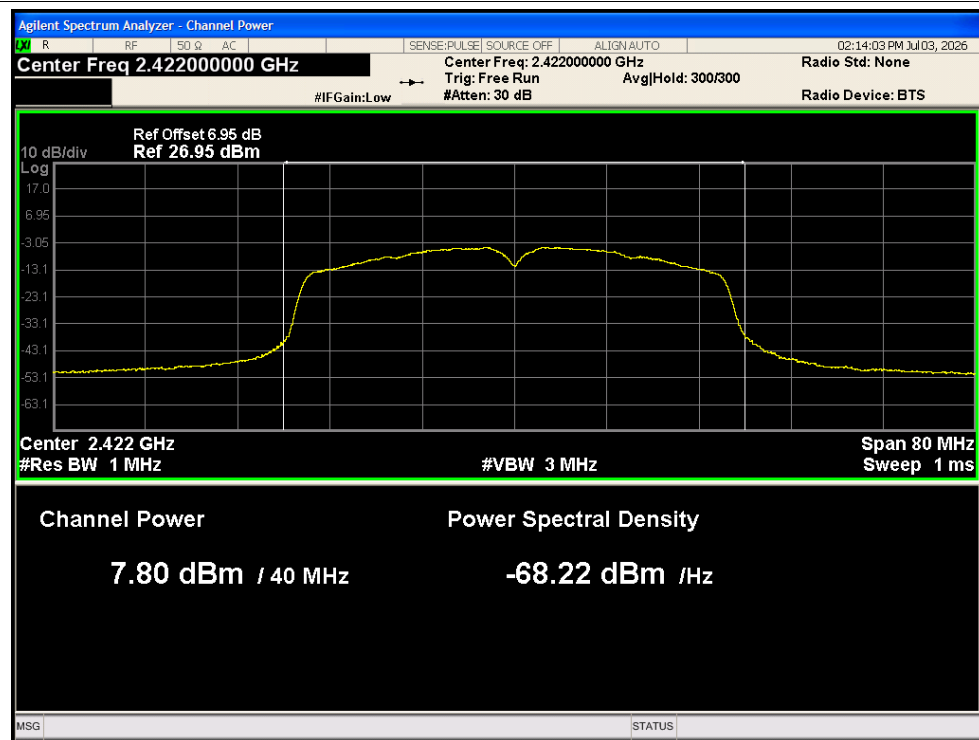
Power NVNT n20 2437MHz



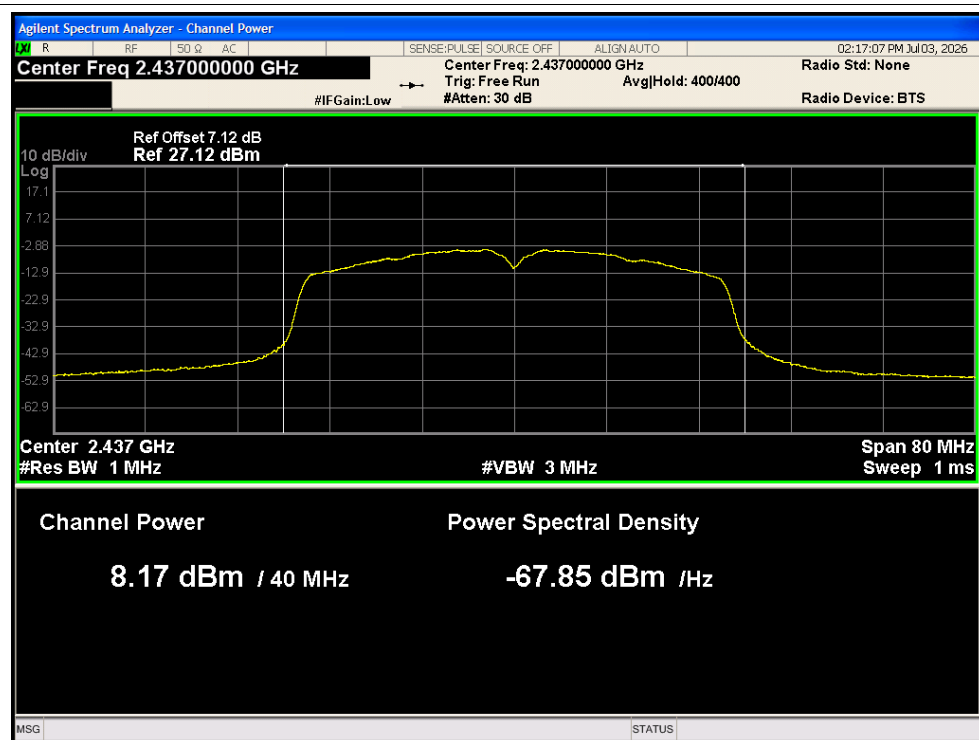
Power NVNT n20 2462MHz



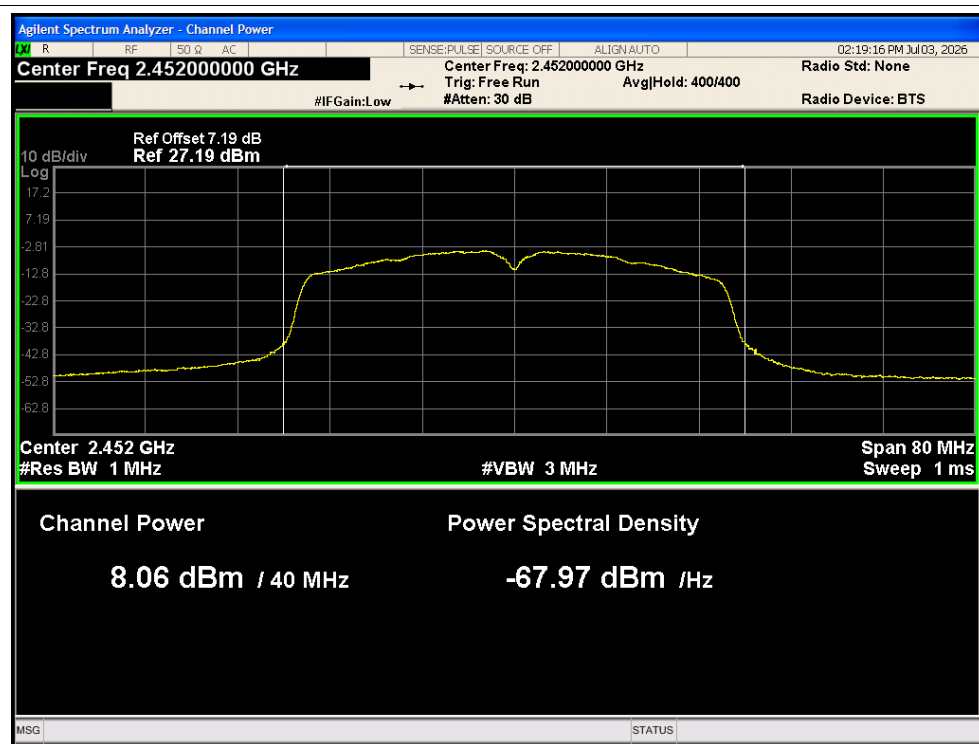
Power NVNT n40 2422MHz



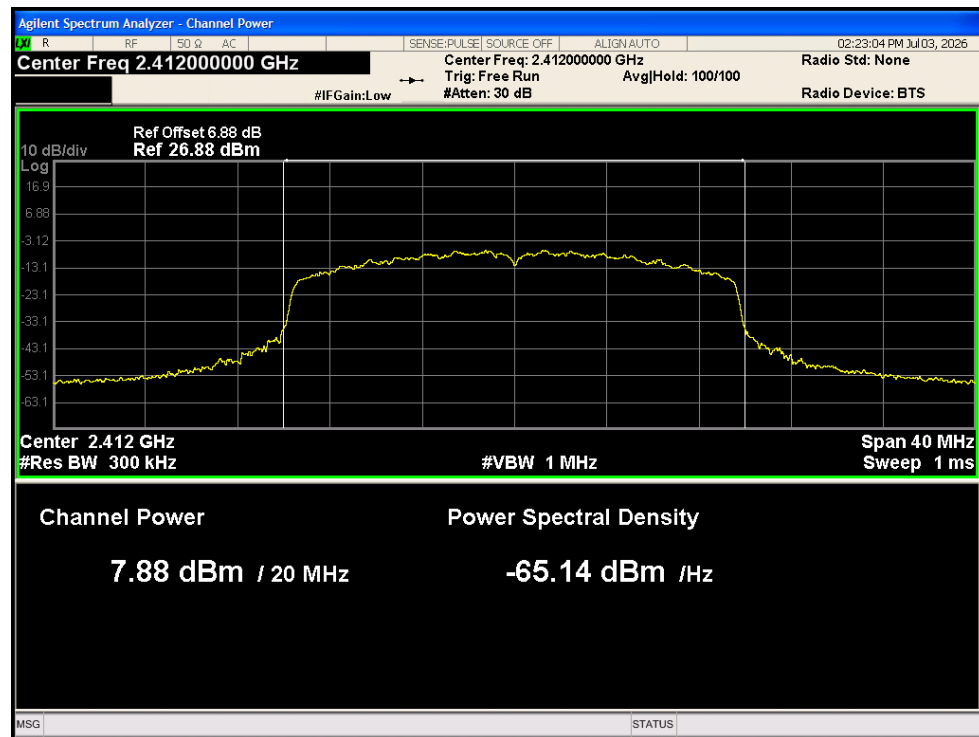
Power NVNT n40 2437MHz



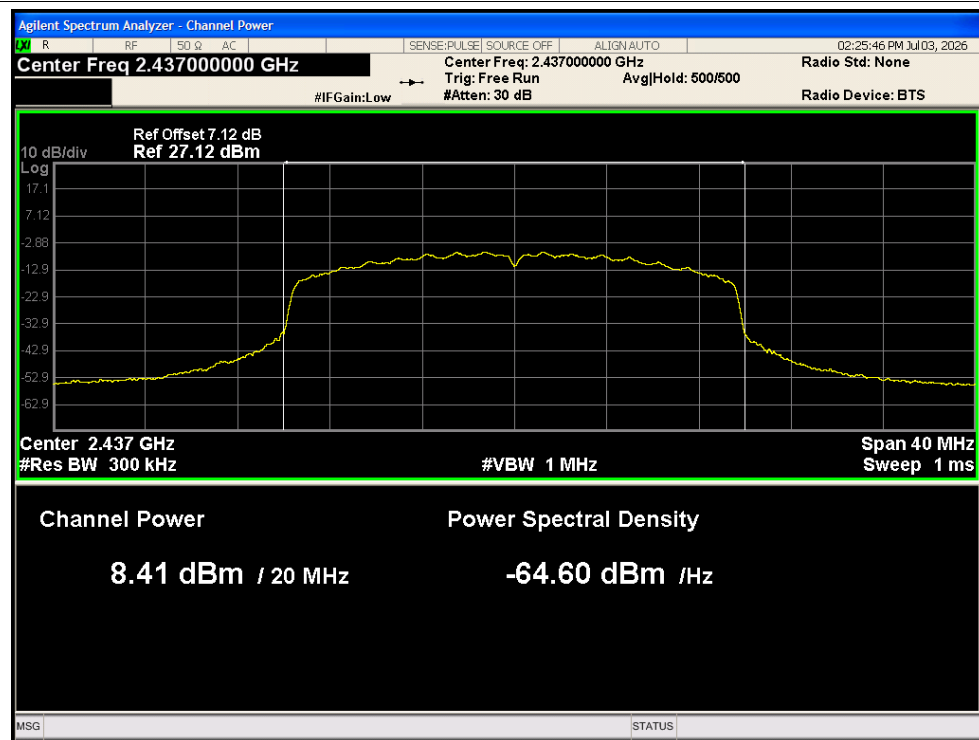
Power NVNT n40 2452MHz



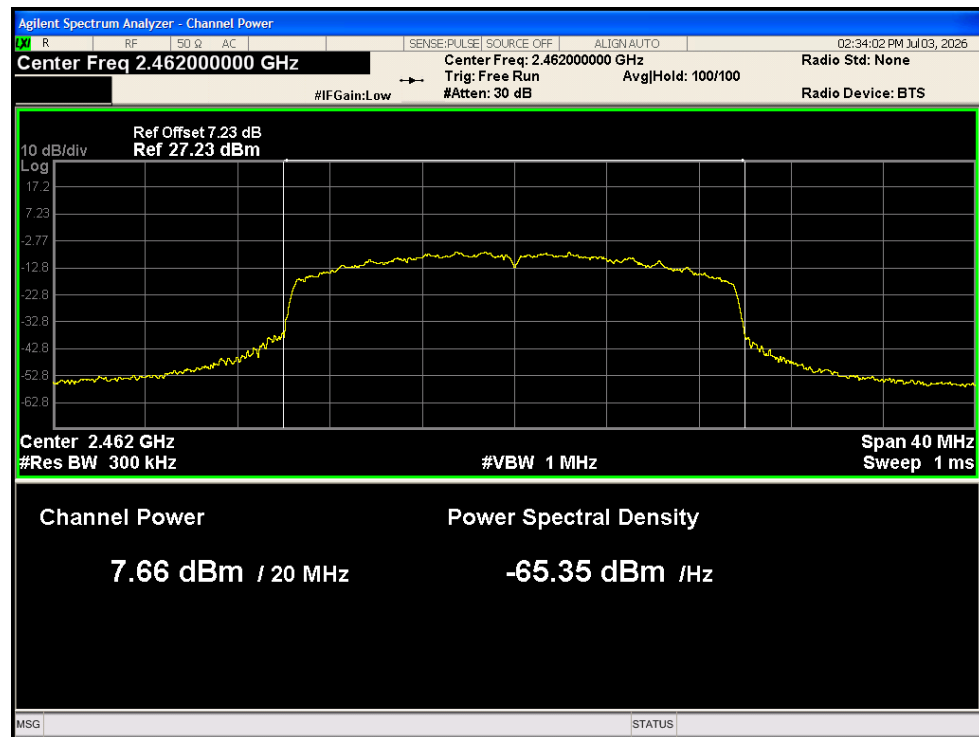
Power NVNT ax20 2412MHz



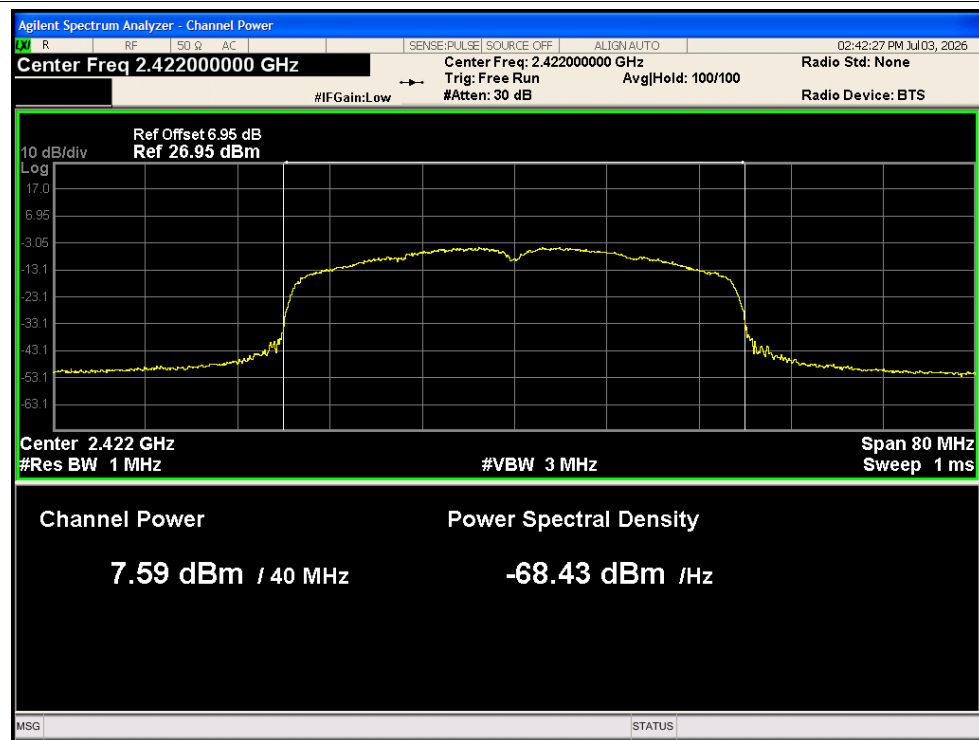
Power NVNT ax20 2437MHz



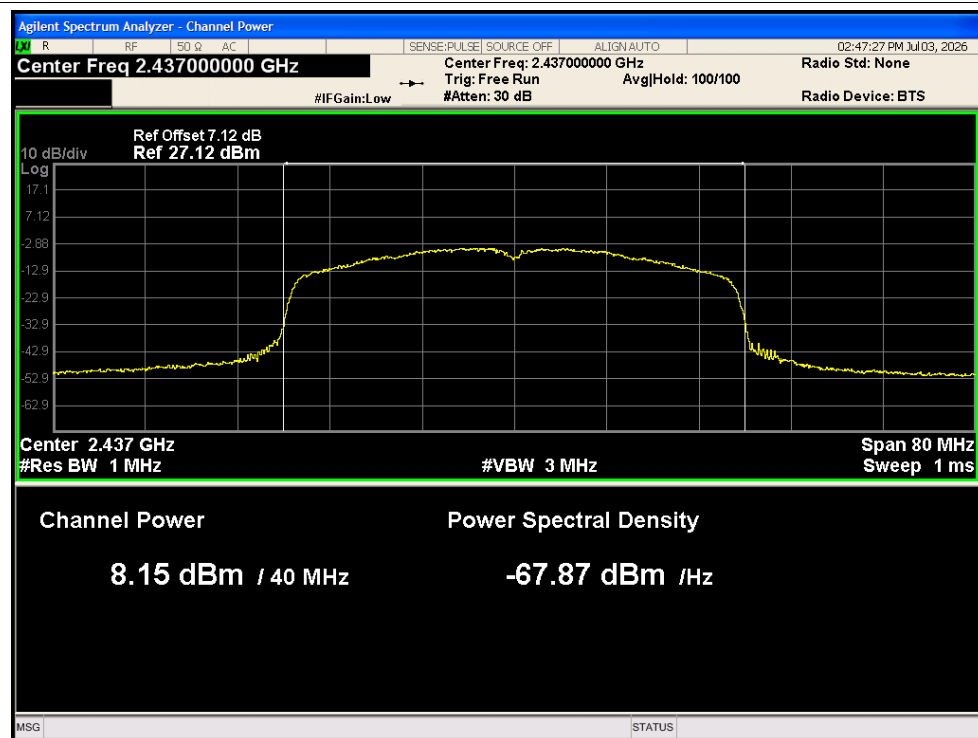
Power NVNT ax20 2462MHz



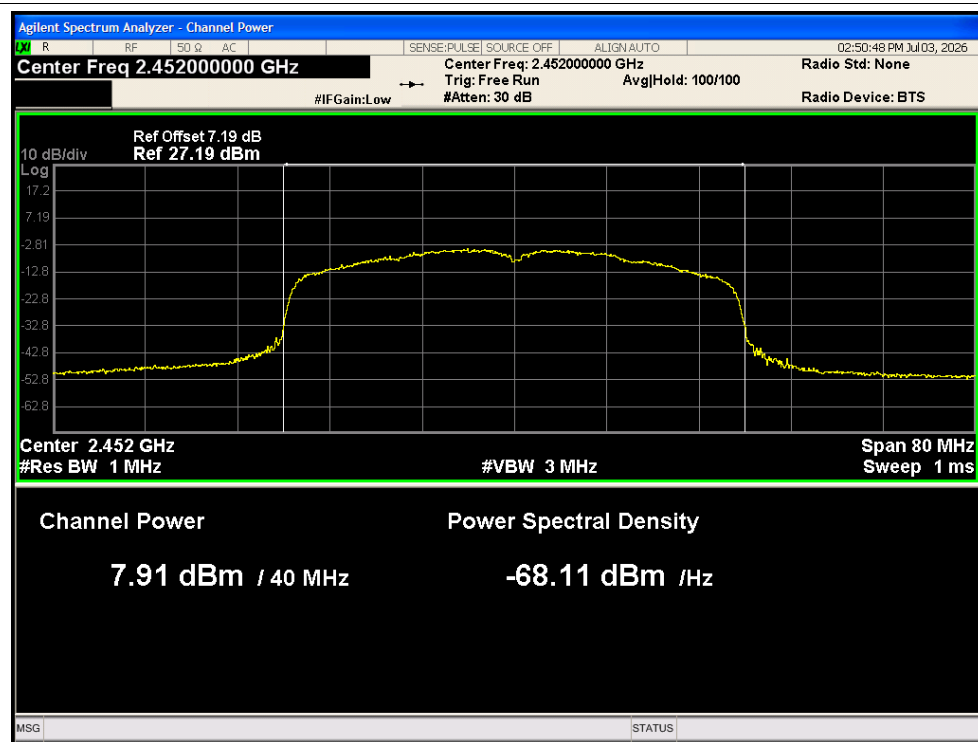
Power NVNT ax40 2422MHz



Power NVNT ax40 2437MHz



Power NVNT ax40 2452MHz

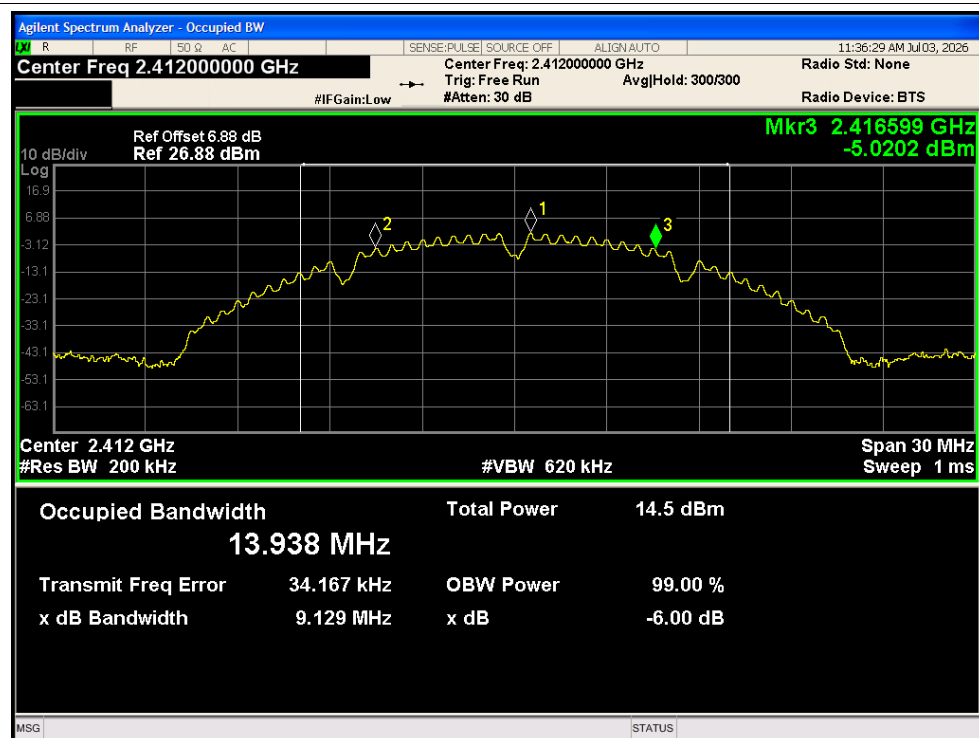


-6dB Bandwidth

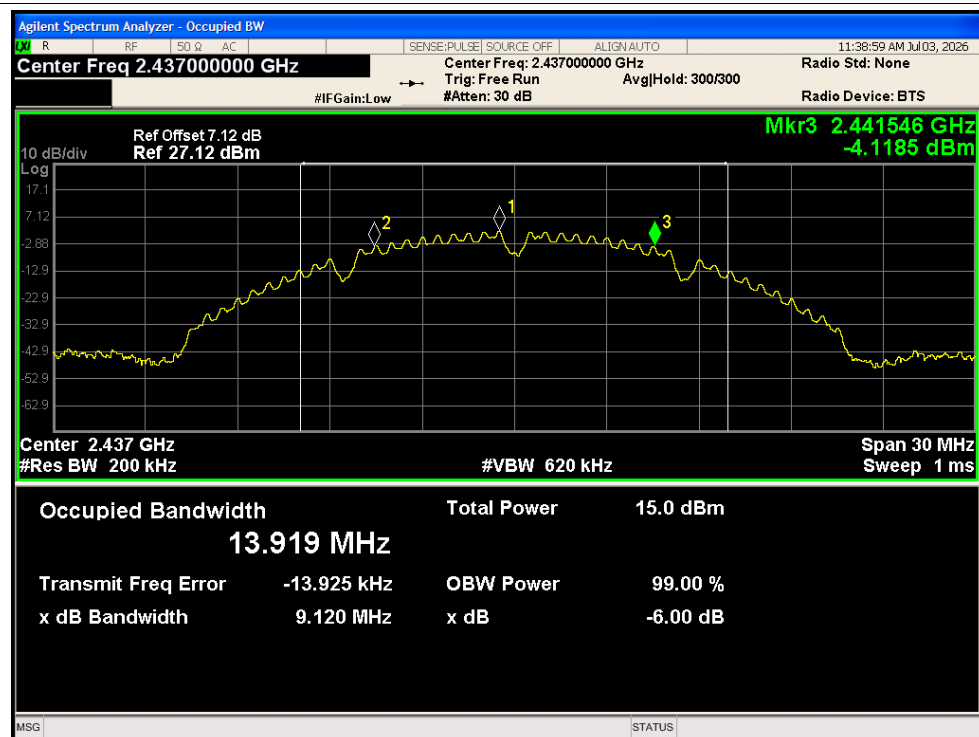
Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	9.129	0.5	Pass
NVNT	b	2437	9.120	0.5	Pass
NVNT	b	2462	9.113	0.5	Pass
NVNT	g	2412	14.385	0.5	Pass
NVNT	g	2437	15.125	0.5	Pass
NVNT	g	2462	13.640	0.5	Pass
NVNT	n20	2412	15.134	0.5	Pass
NVNT	n20	2437	15.120	0.5	Pass
NVNT	n20	2462	13.917	0.5	Pass
NVNT	n40	2422	26.070	0.5	Pass
NVNT	n40	2437	26.135	0.5	Pass
NVNT	n40	2452	25.312	0.5	Pass
NVNT	ax20	2412	14.232	0.5	Pass
NVNT	ax20	2437	14.089	0.5	Pass
NVNT	ax20	2462	13.925	0.5	Pass
NVNT	ax40	2422	23.989	0.5	Pass
NVNT	ax40	2437	24.275	0.5	Pass
NVNT	ax40	2452	24.196	0.5	Pass

Test Graphs

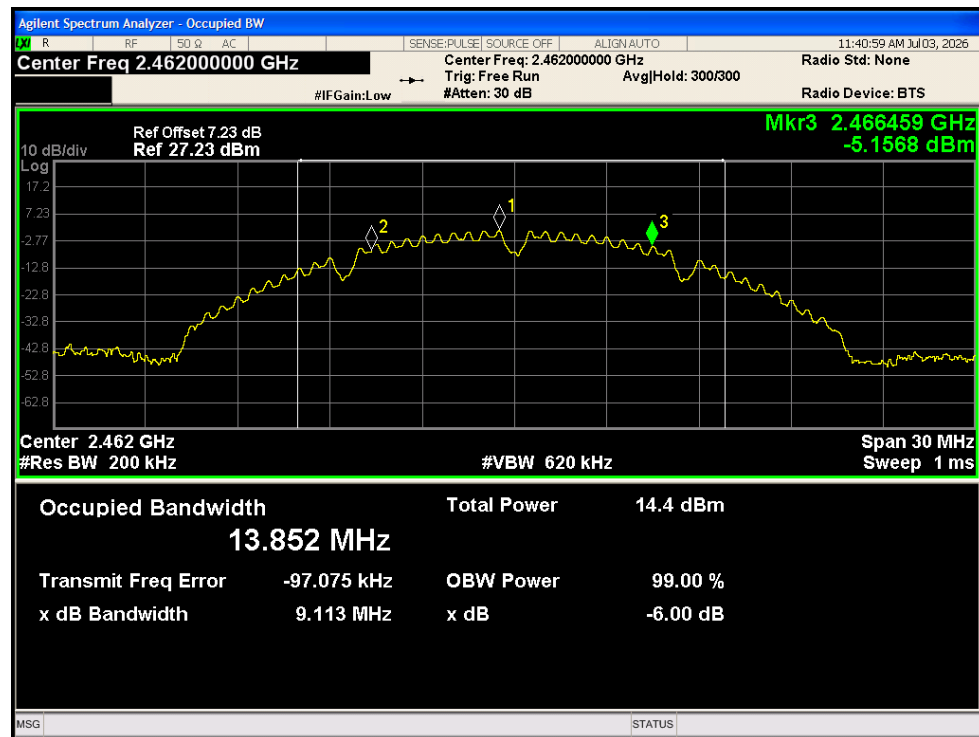
-6dB Bandwidth NVNT b 2412MHz



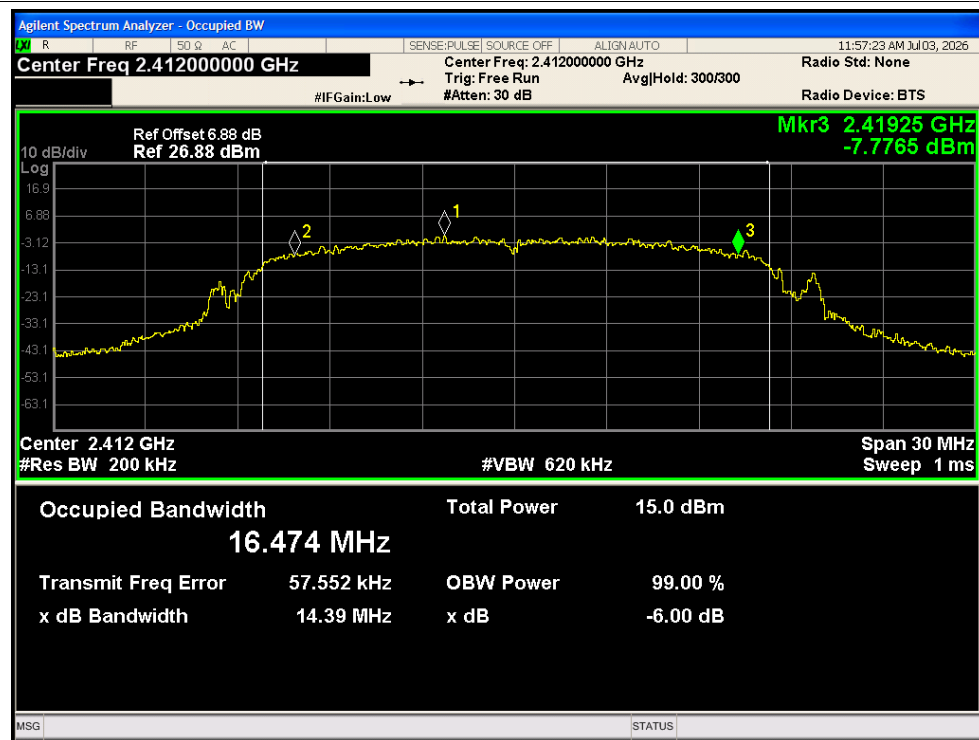
-6dB Bandwidth NVNT b 2437MHz



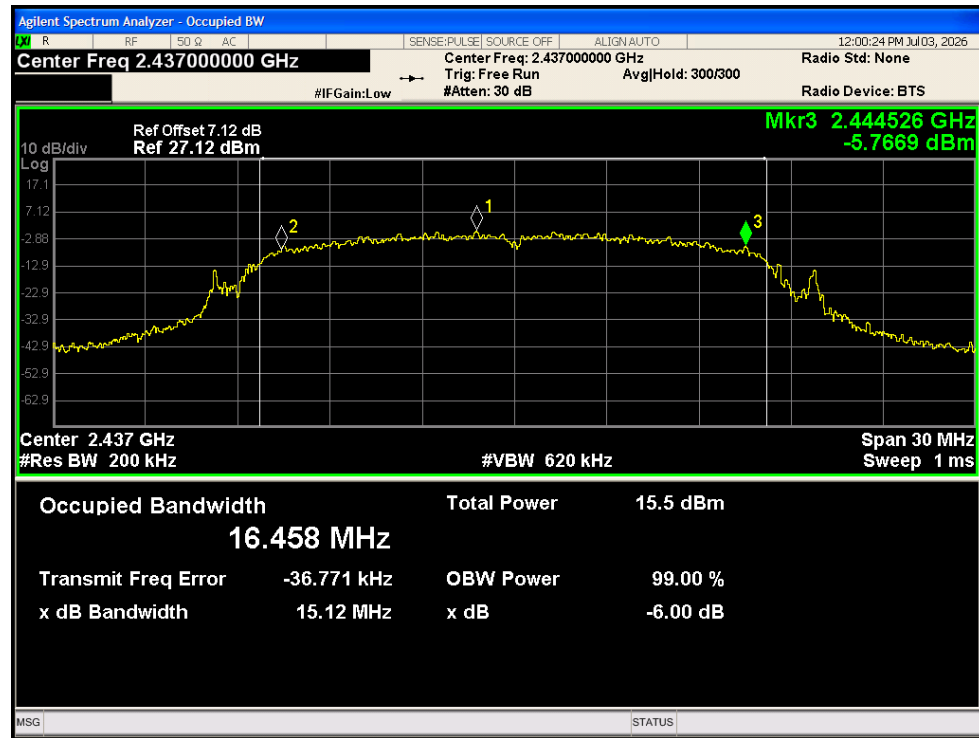
-6dB Bandwidth NVNT b 2462MHz



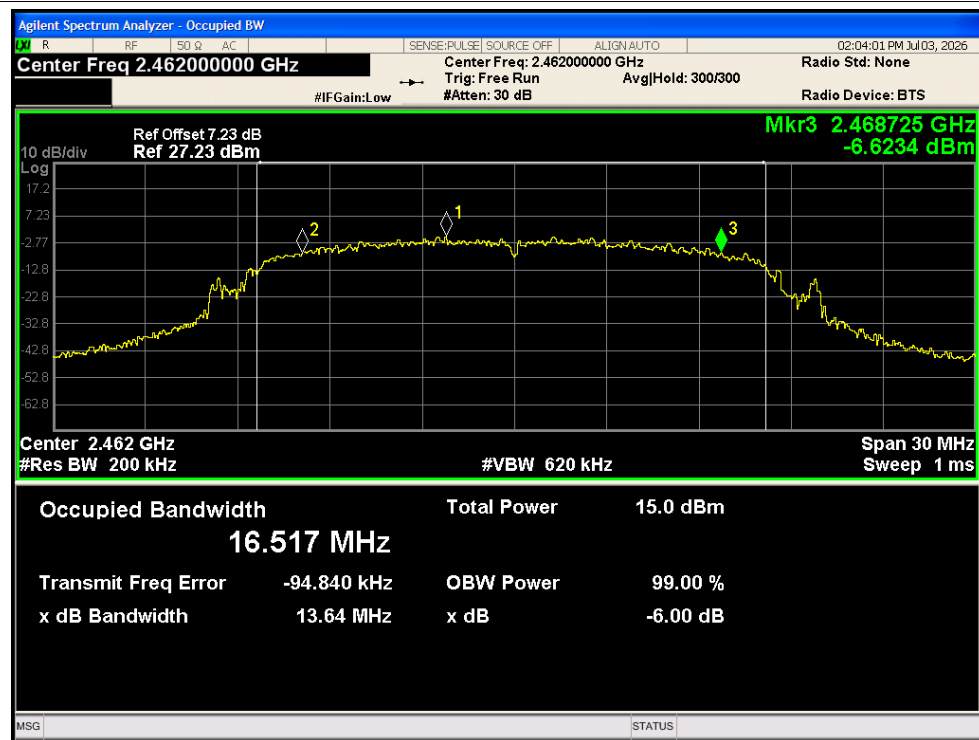
-6dB Bandwidth NVNT g 2412MHz



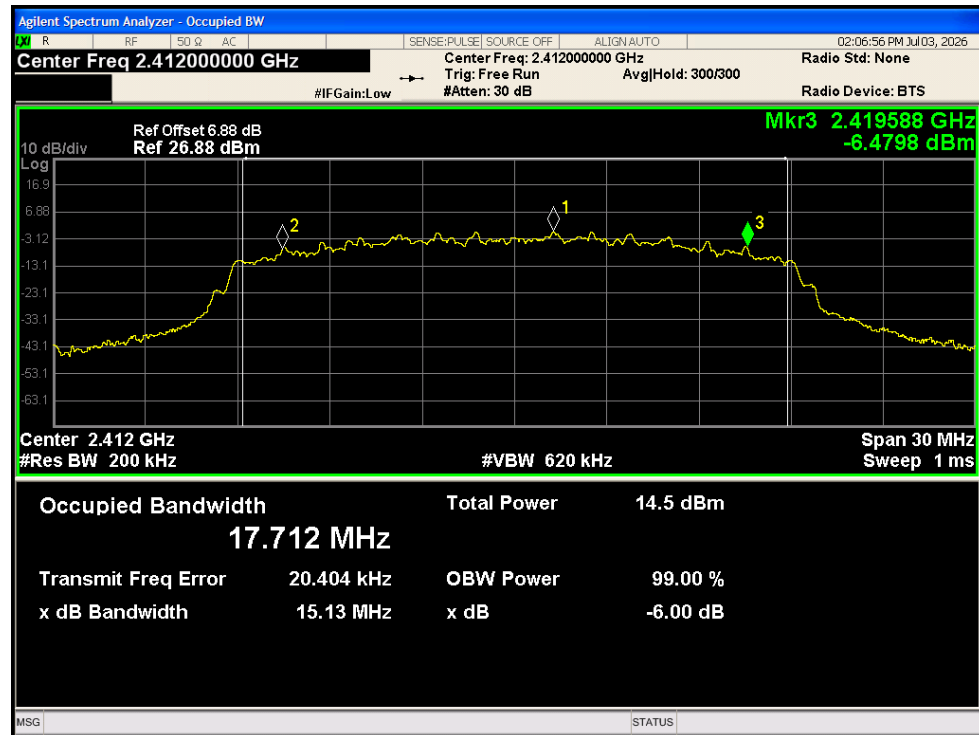
-6dB Bandwidth NVNT g 2437MHz



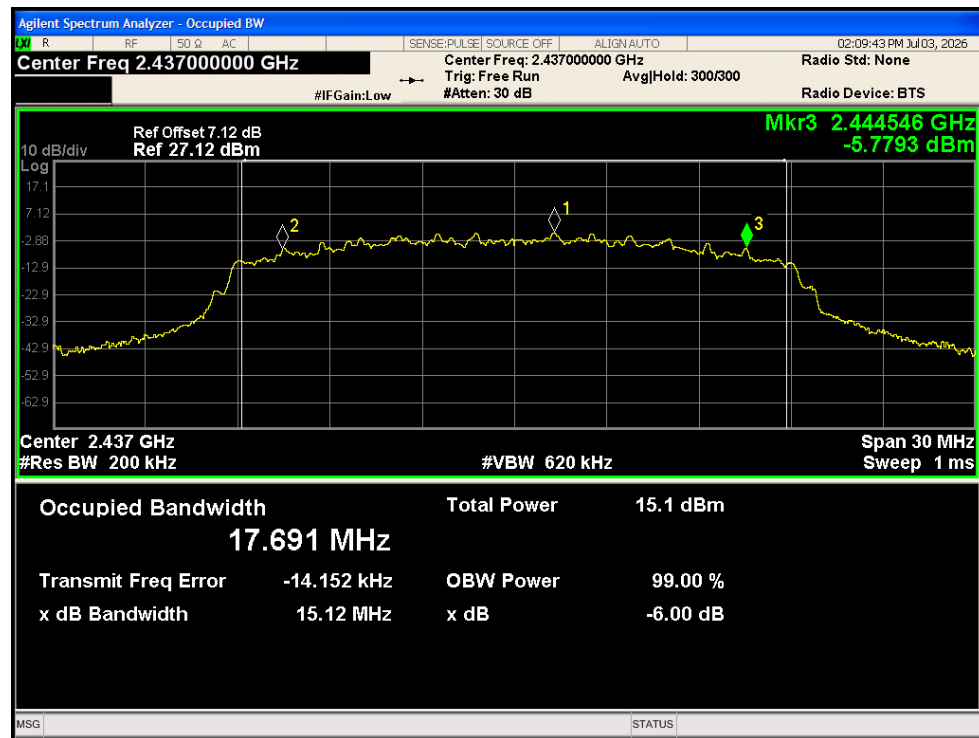
-6dB Bandwidth NVNT g 2462MHz



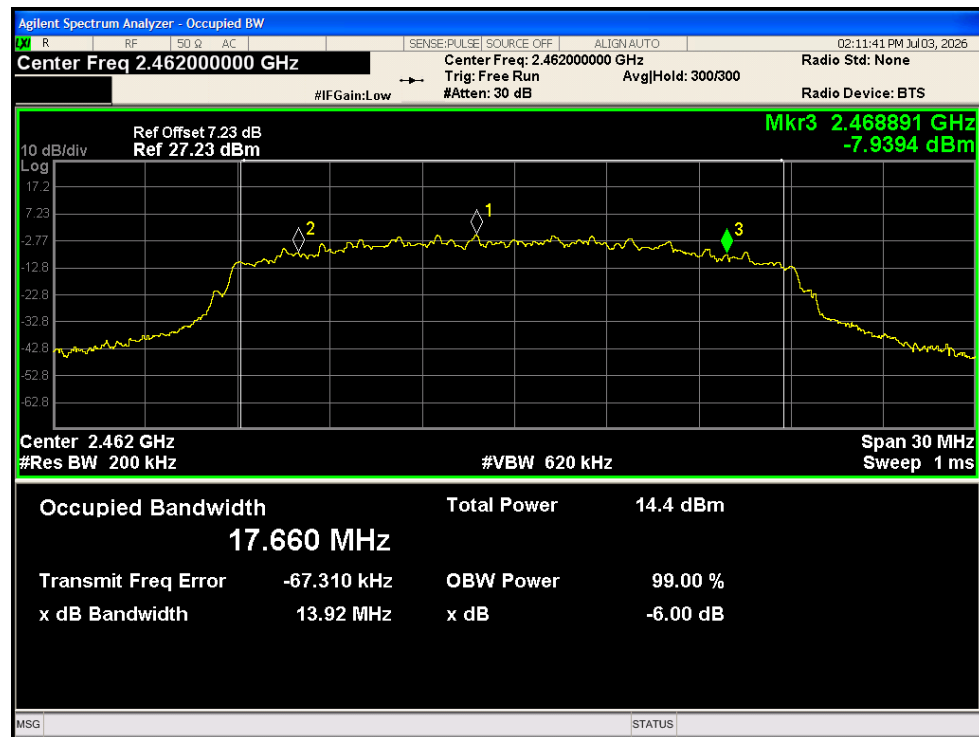
-6dB Bandwidth NVNT n20 2412MHz



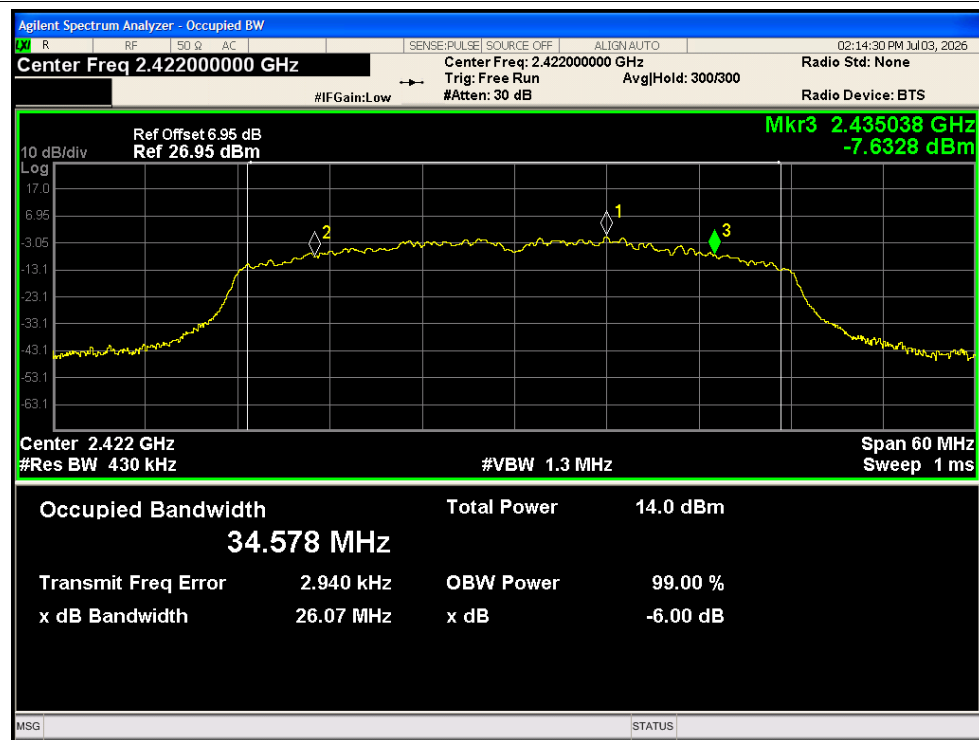
-6dB Bandwidth NVNT n20 2437MHz



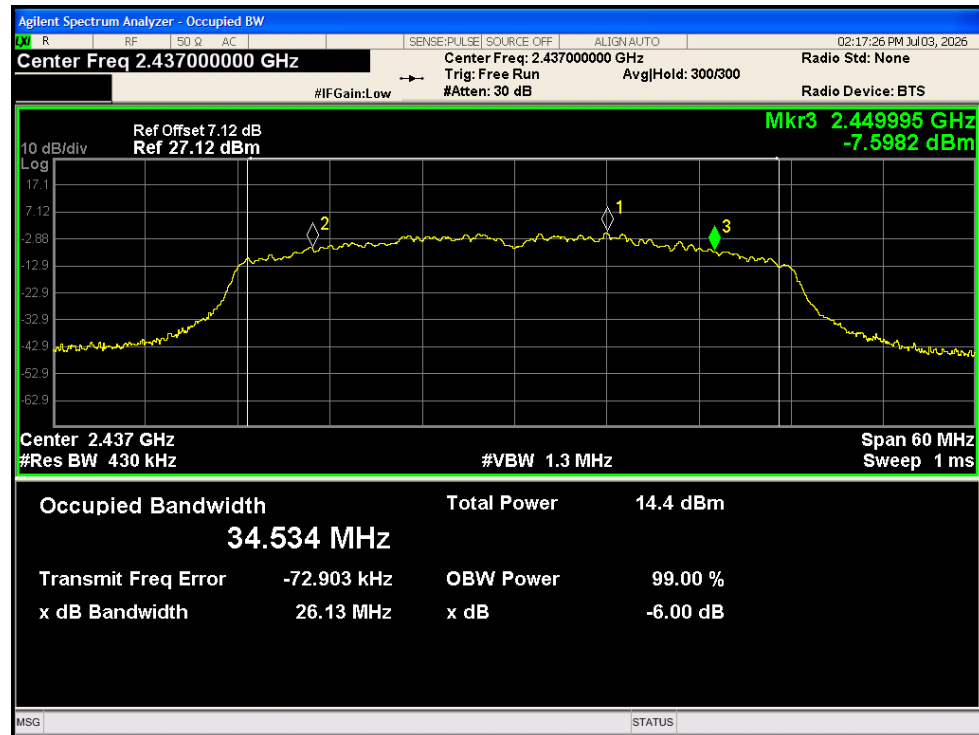
-6dB Bandwidth NVNT n20 2462MHz



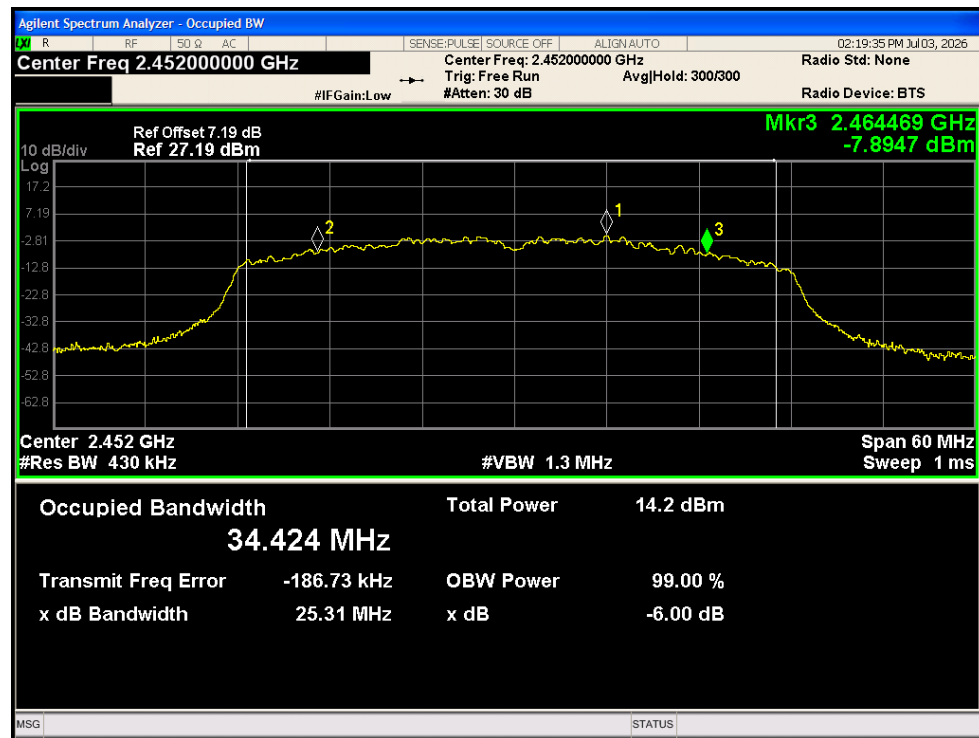
-6dB Bandwidth NVNT n40 2422MHz



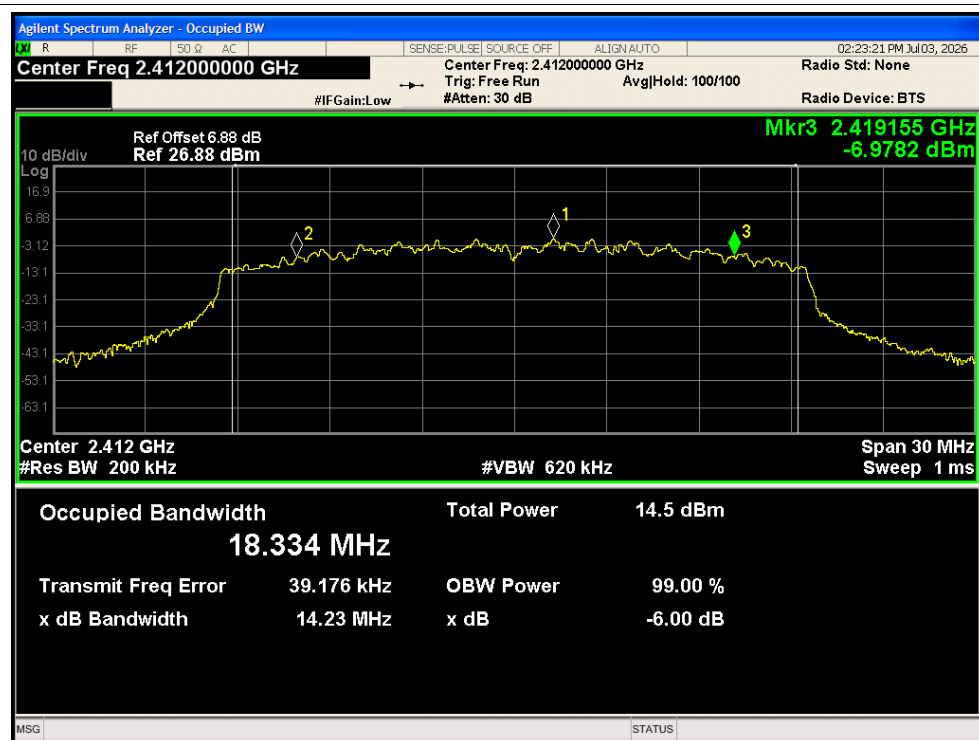
-6dB Bandwidth NVNT n40 2437MHz



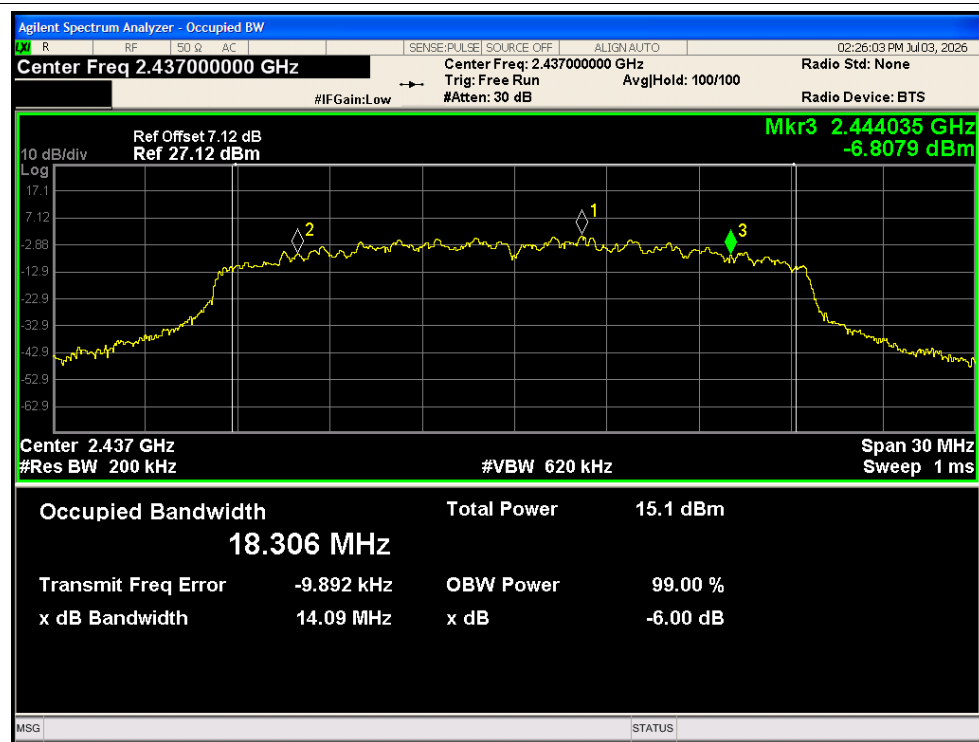
-6dB Bandwidth NVNT n40 2452MHz



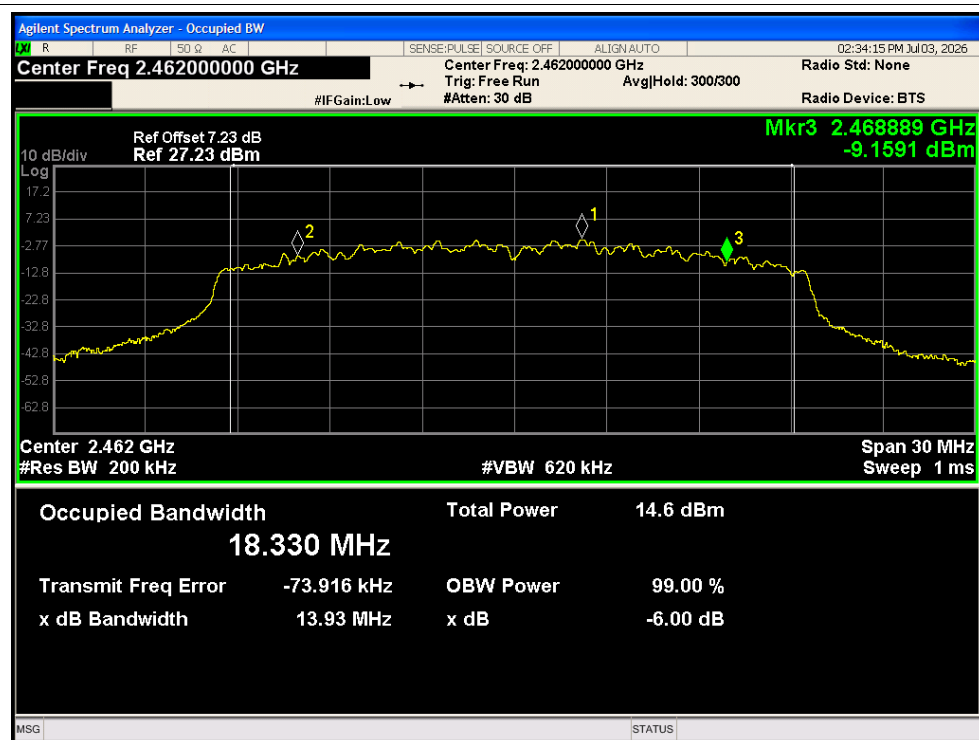
-6dB Bandwidth NVNT ax20 2412MHz



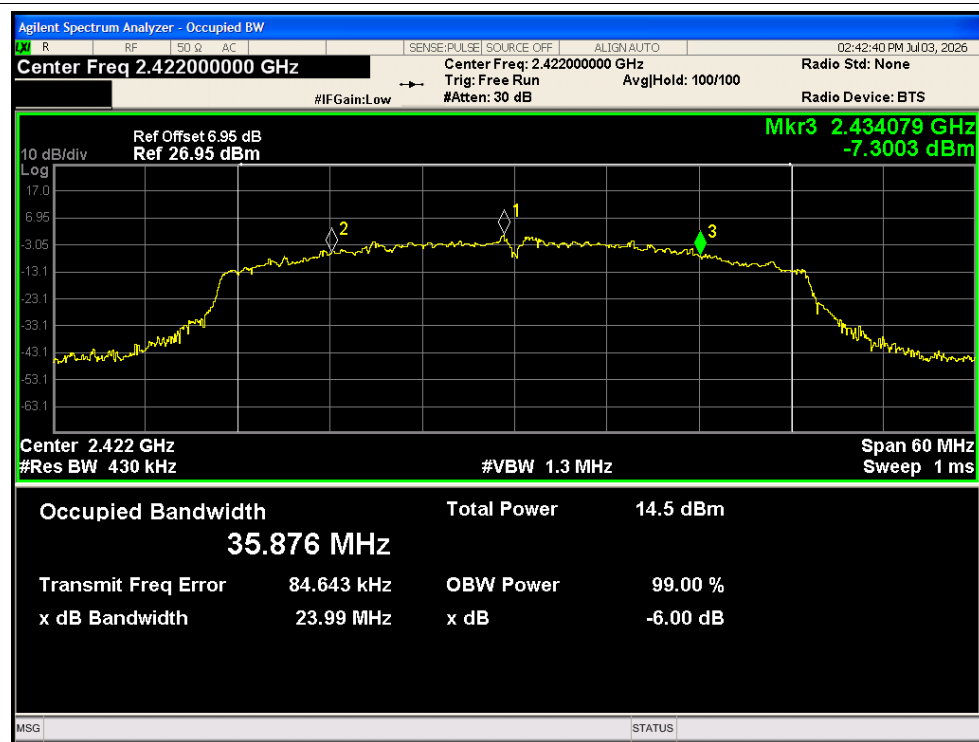
-6dB Bandwidth NVNT ax20 2437MHz



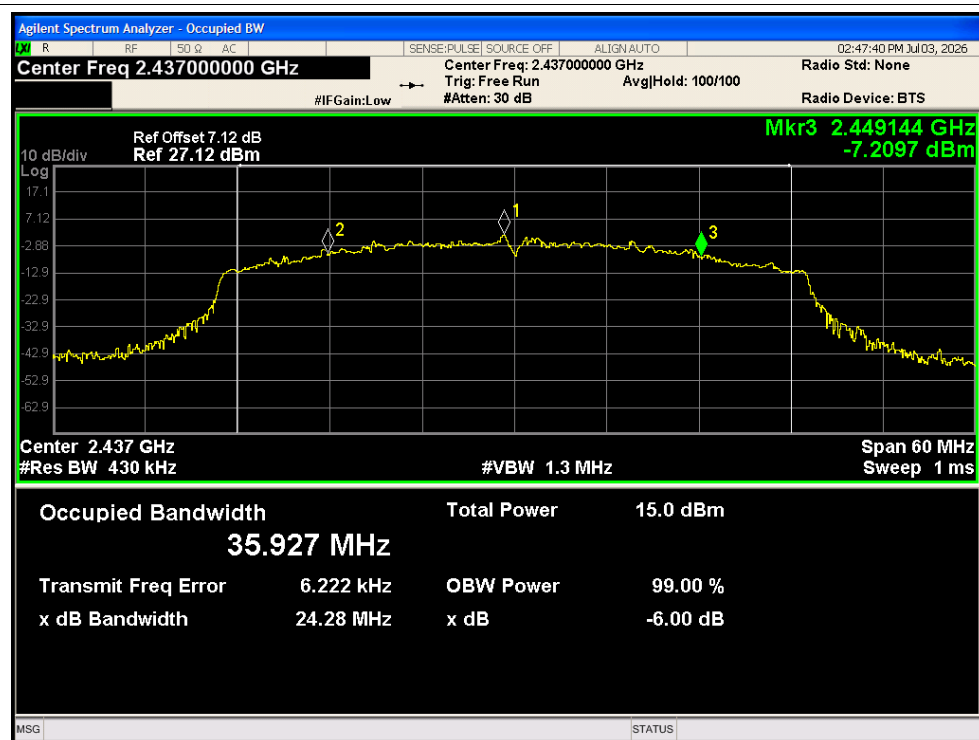
-6dB Bandwidth NVNT ax20 2462MHz



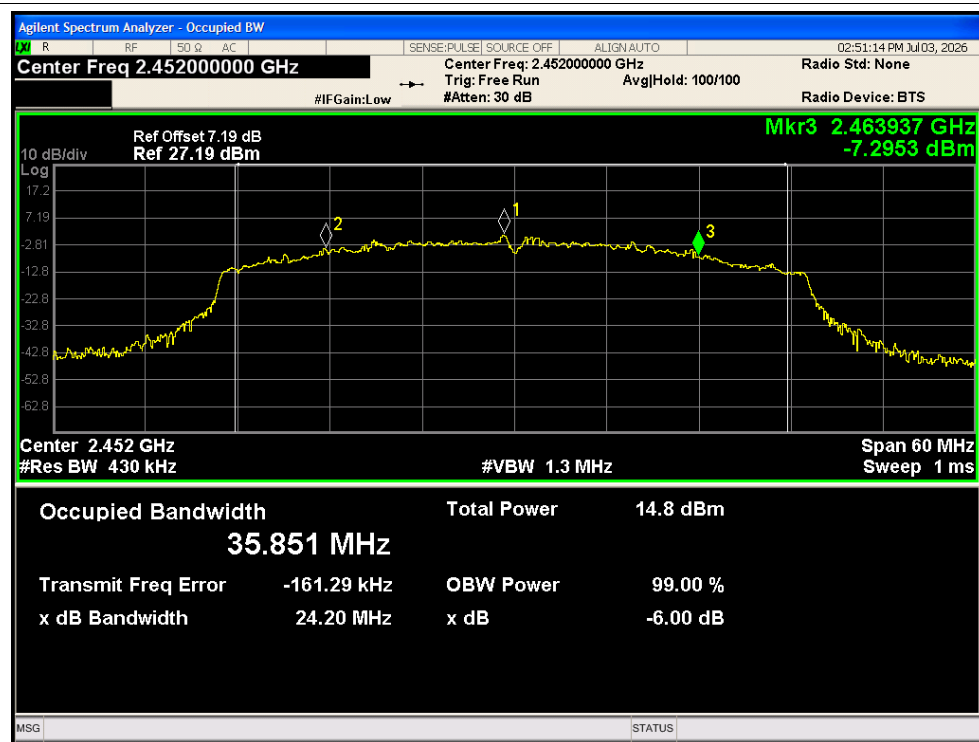
-6dB Bandwidth NVNT ax40 2422MHz



-6dB Bandwidth NVNT ax40 2437MHz



-6dB Bandwidth NVNT ax40 2452MHz



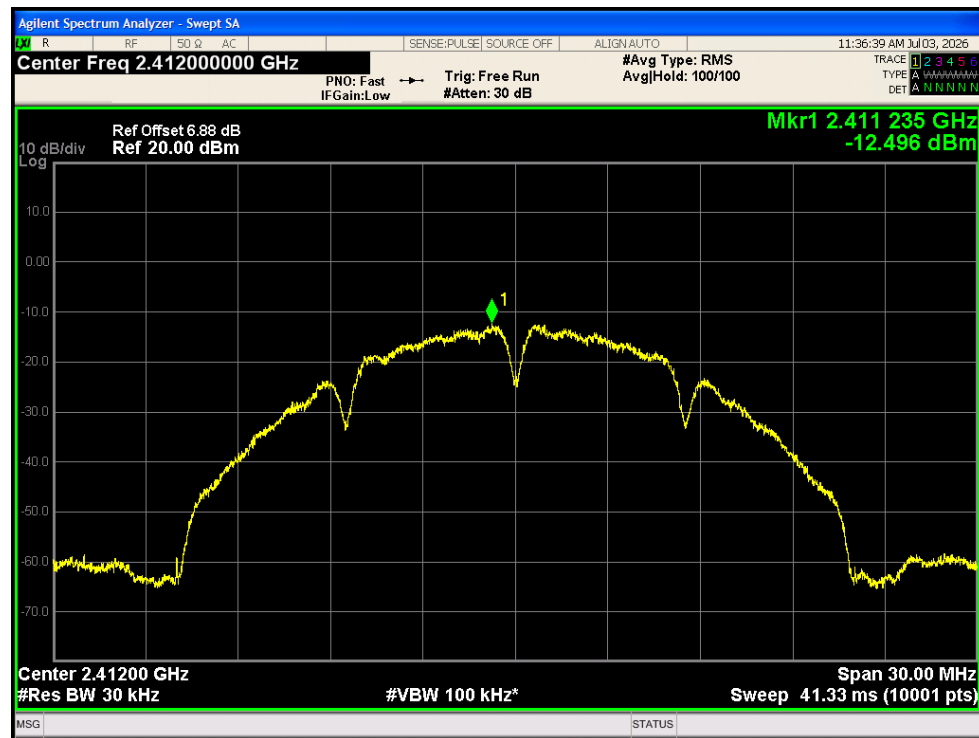
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	-12.50	-22.50	8	Pass
NVNT	b	2437	-11.78	-21.78	8	Pass
NVNT	b	2462	-12.66	-22.66	8	Pass
NVNT	g	2412	-14.54	-24.54	8	Pass
NVNT	g	2437	-14.36	-24.36	8	Pass
NVNT	g	2462	-14.38	-24.38	8	Pass
NVNT	n20	2412	-12.89	-22.89	8	Pass
NVNT	n20	2437	-12.21	-22.21	8	Pass
NVNT	n20	2462	-14.35	-24.35	8	Pass
NVNT	n40	2422	-14.74	-24.74	8	Pass
NVNT	n40	2437	-14.29	-24.29	8	Pass
NVNT	n40	2452	-14.29	-24.29	8	Pass
NVNT	ax20	2412	-23.87	-33.87	8	Pass
NVNT	ax20	2437	-23.42	-33.42	8	Pass
NVNT	ax20	2462	-24.22	-34.22	8	Pass
NVNT	ax40	2422	-26.07	-36.07	8	Pass
NVNT	ax40	2437	-25.42	-35.42	8	Pass
NVNT	ax40	2452	-25.50	-35.50	8	Pass

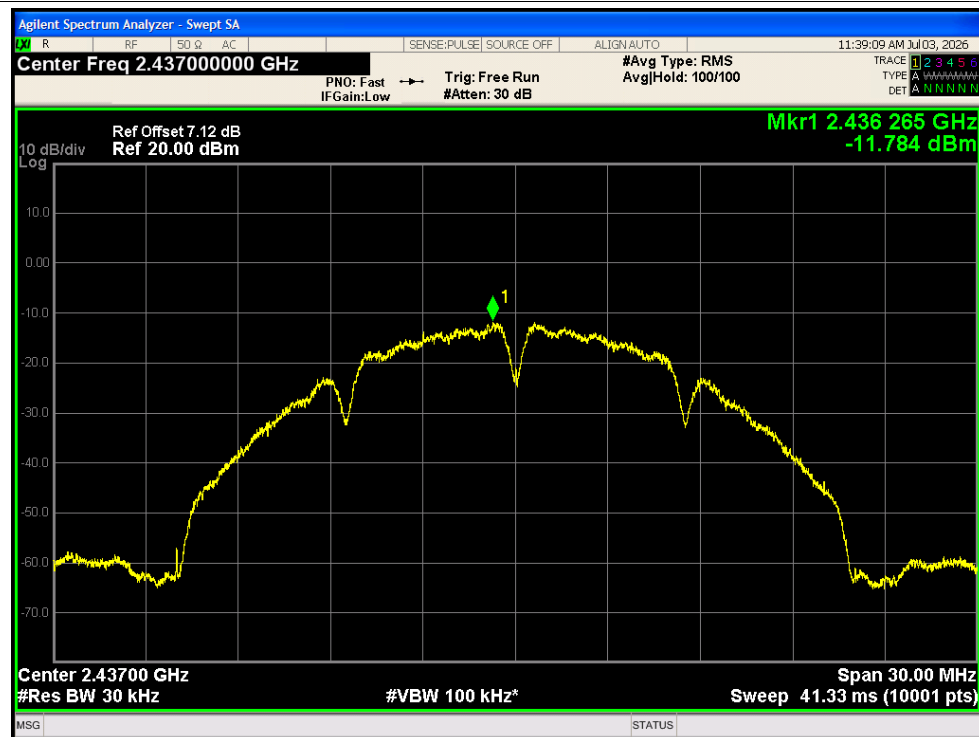
Note: Total PSD (dBm/3kHz) = Total PSD (dBm/30kHz)+10log(3kHz/30kHz)

Test Graphs

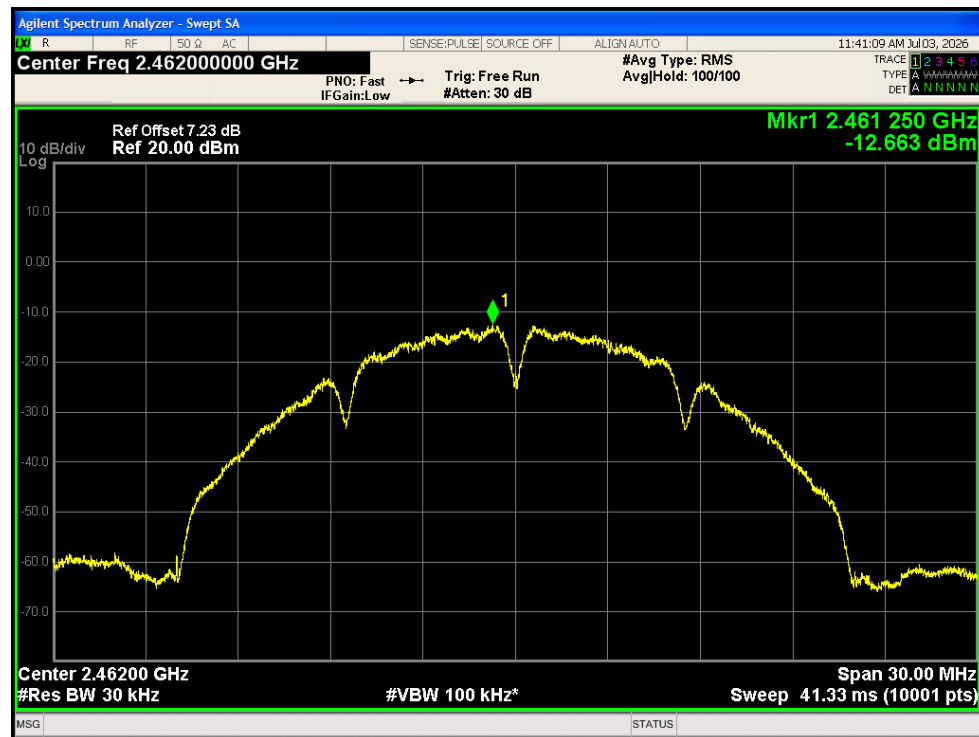
PSD NVNT b 2412MHz



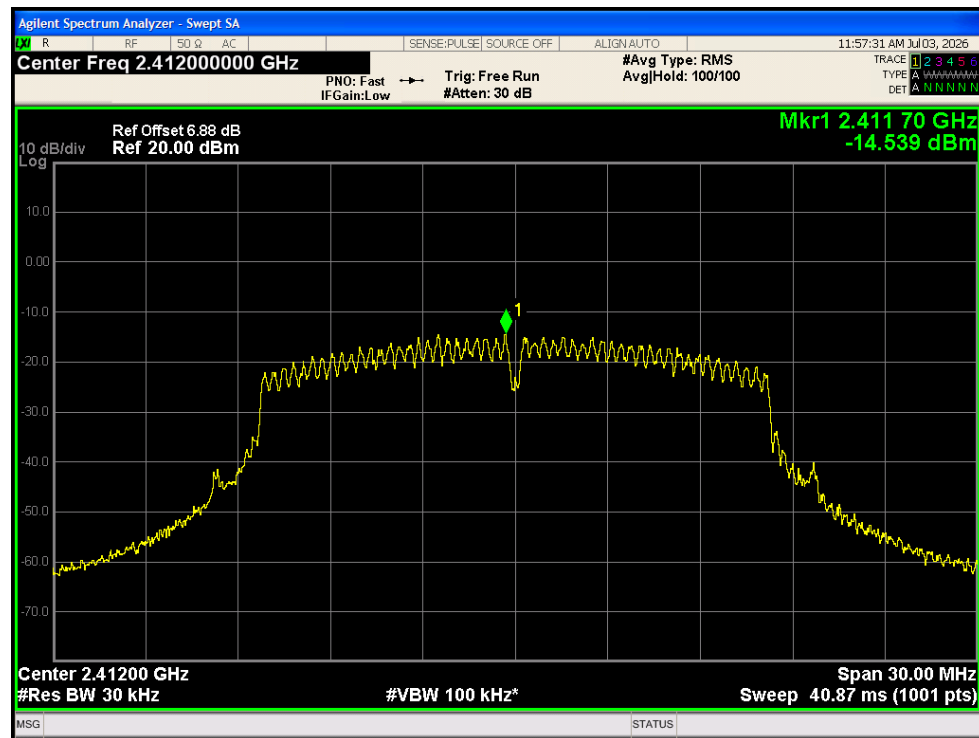
PSD NVNT b 2437MHz



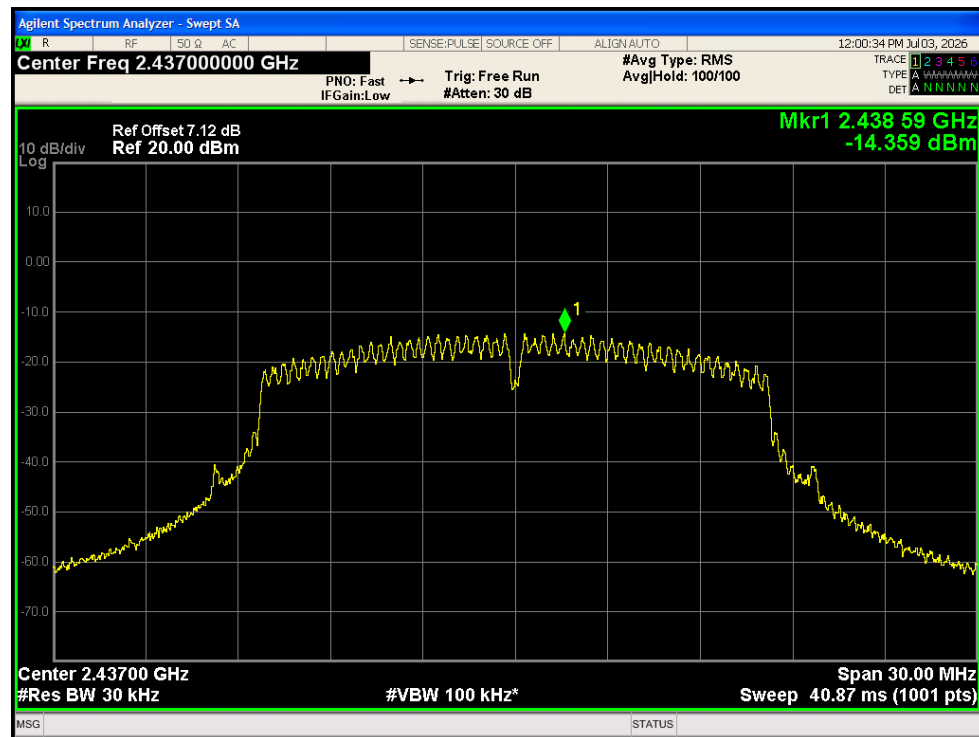
PSD NVNT b 2462MHz



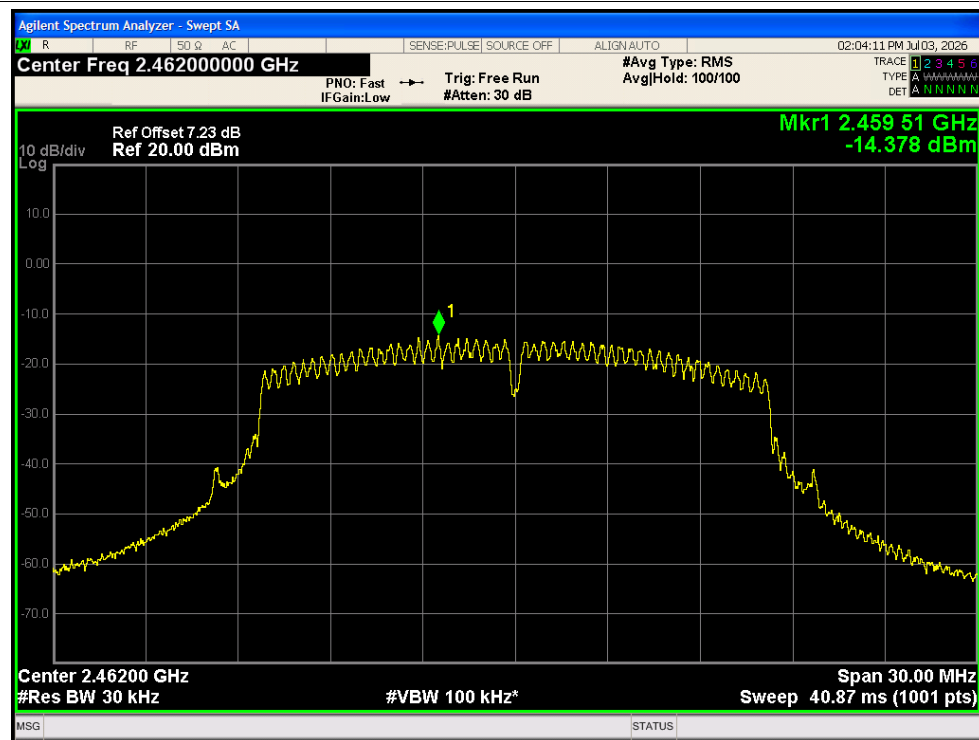
PSD NVNT g 2412MHz



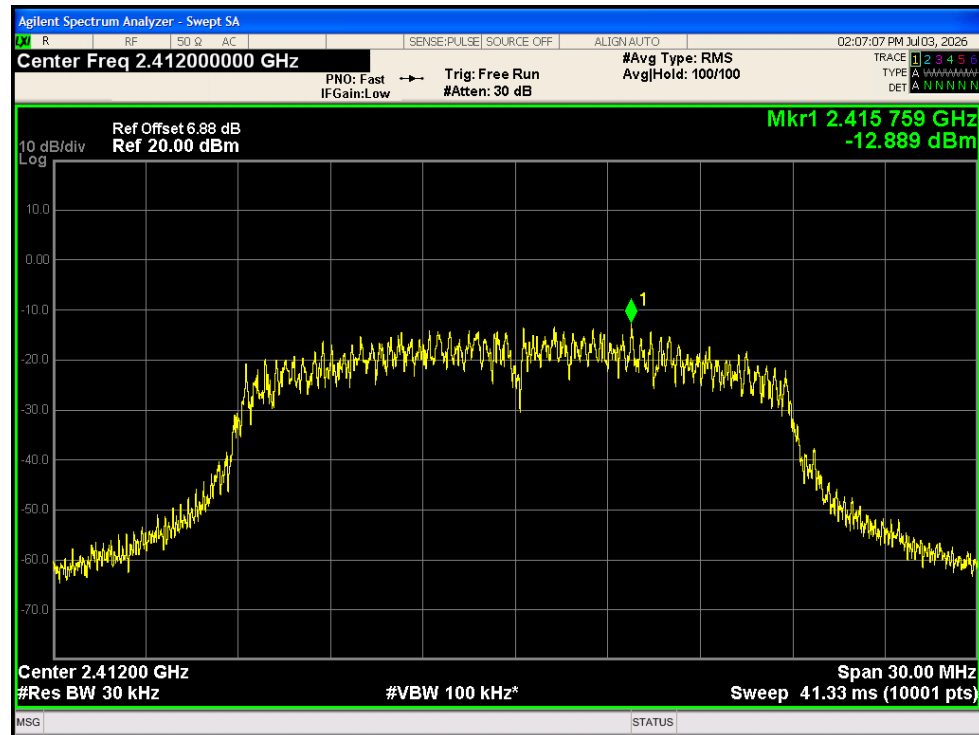
PSD NVNT g 2437MHz



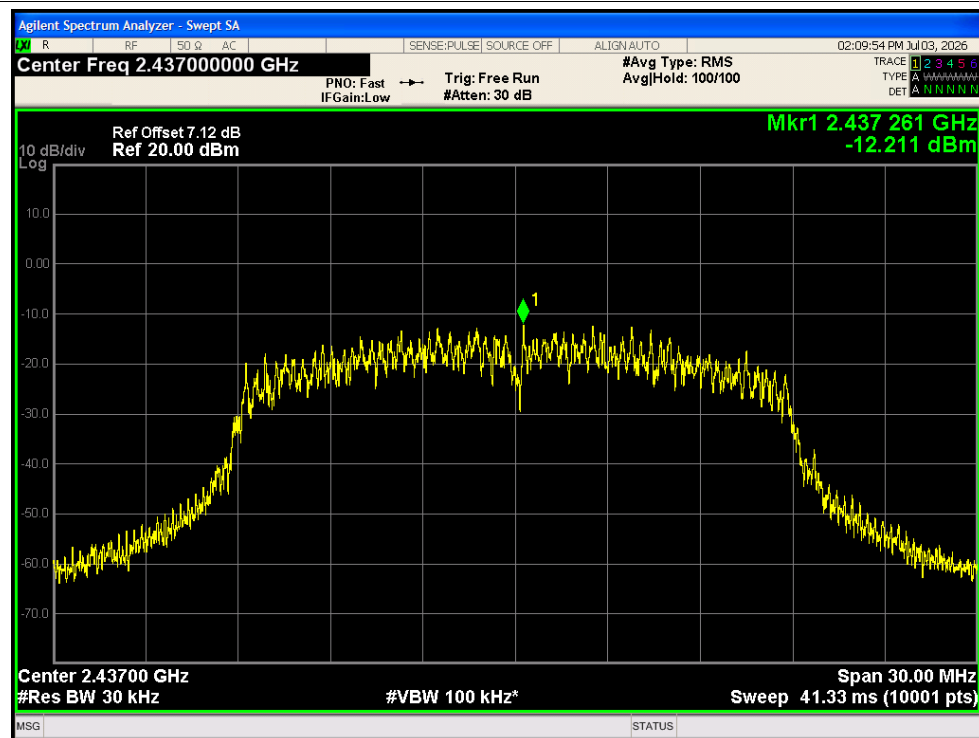
PSD NVNT g 2462MHz



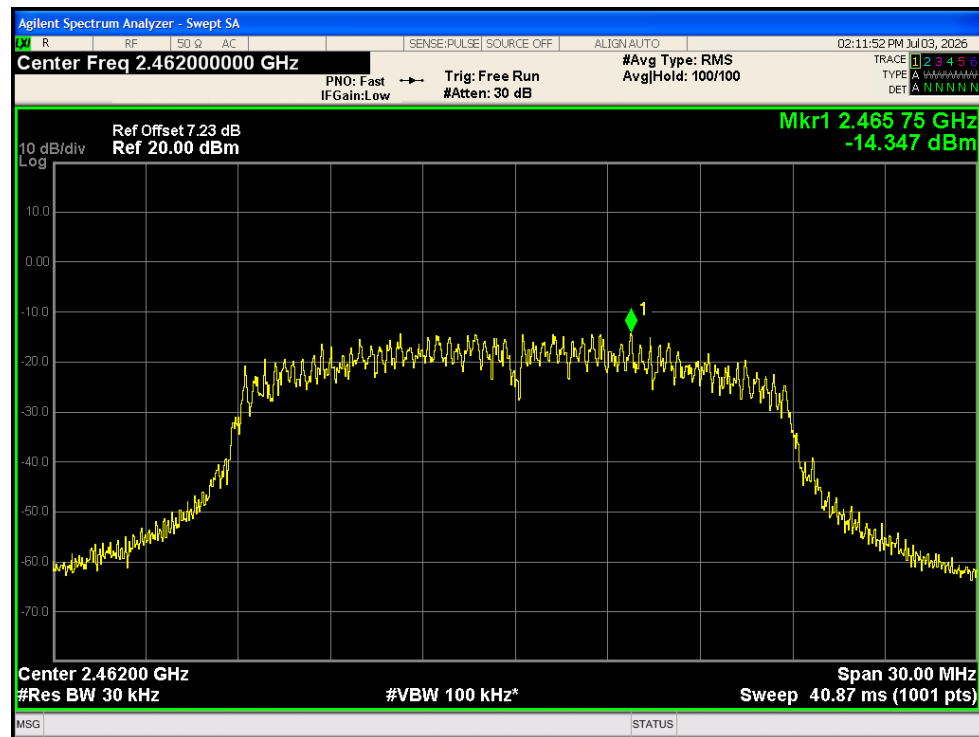
PSD NVNT n20 2412MHz



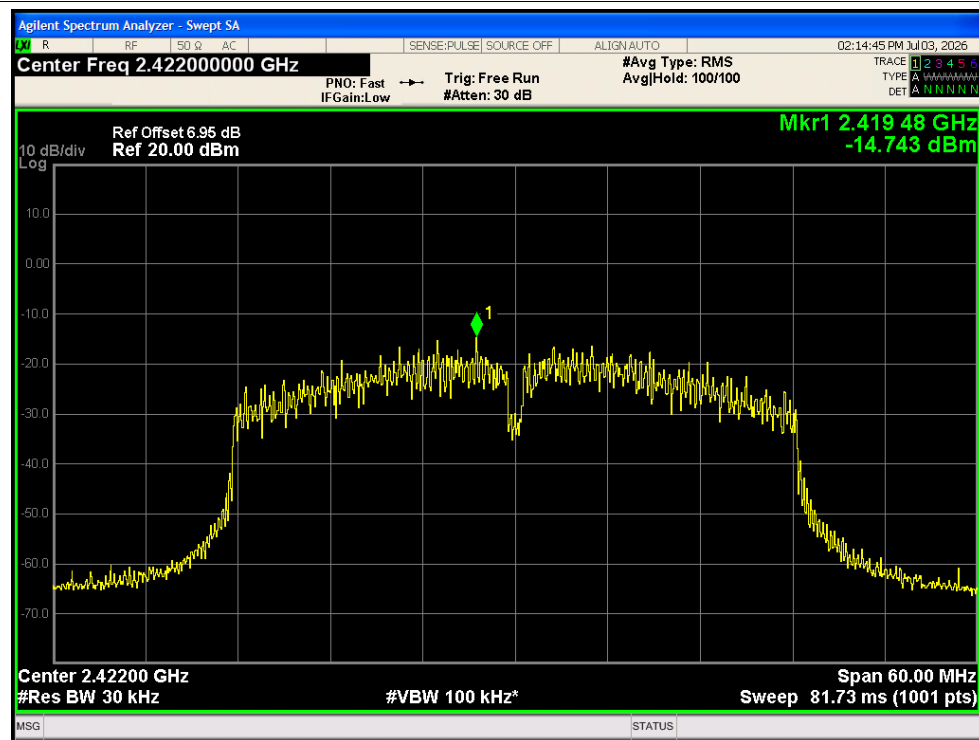
PSD NVNT n20 2437MHz



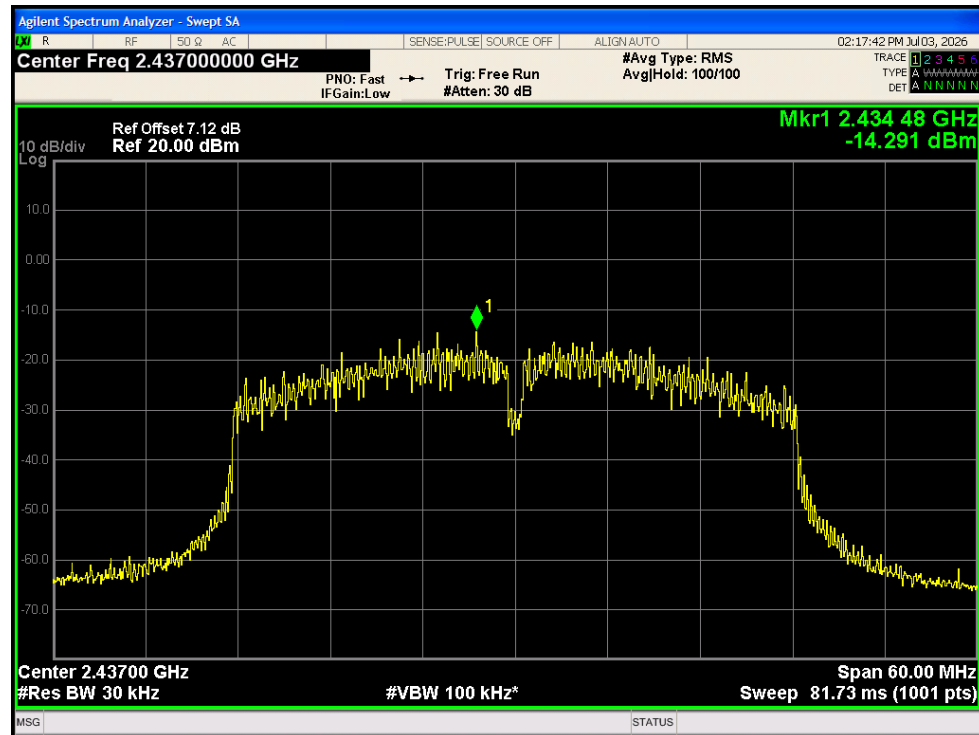
PSD NVNT n20 2462MHz



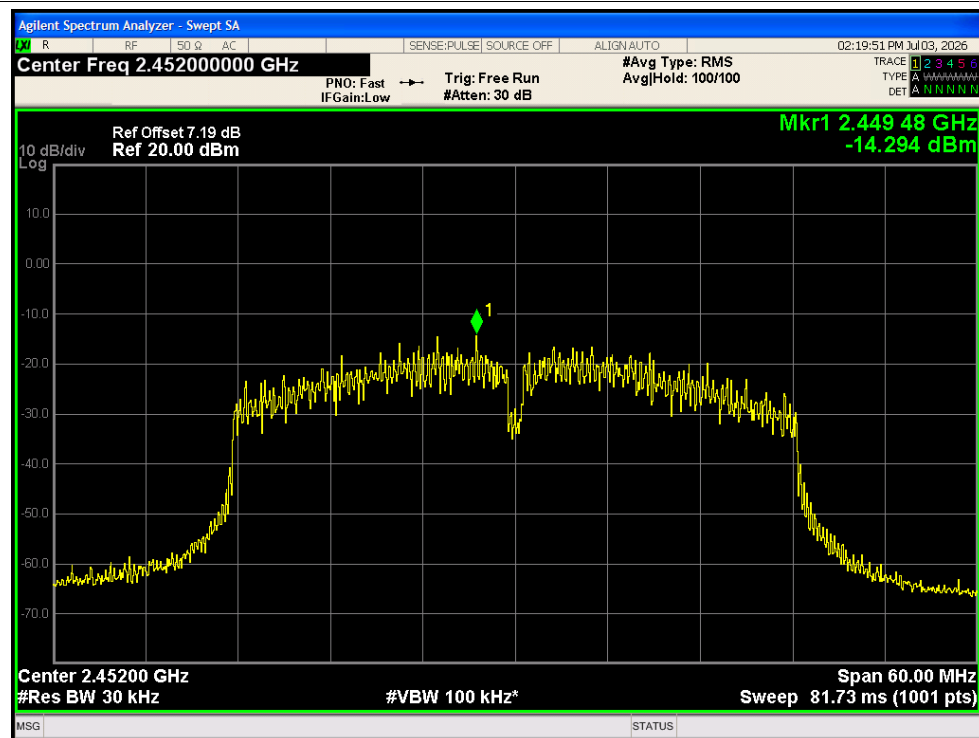
PSD NVNT n40 2422MHz



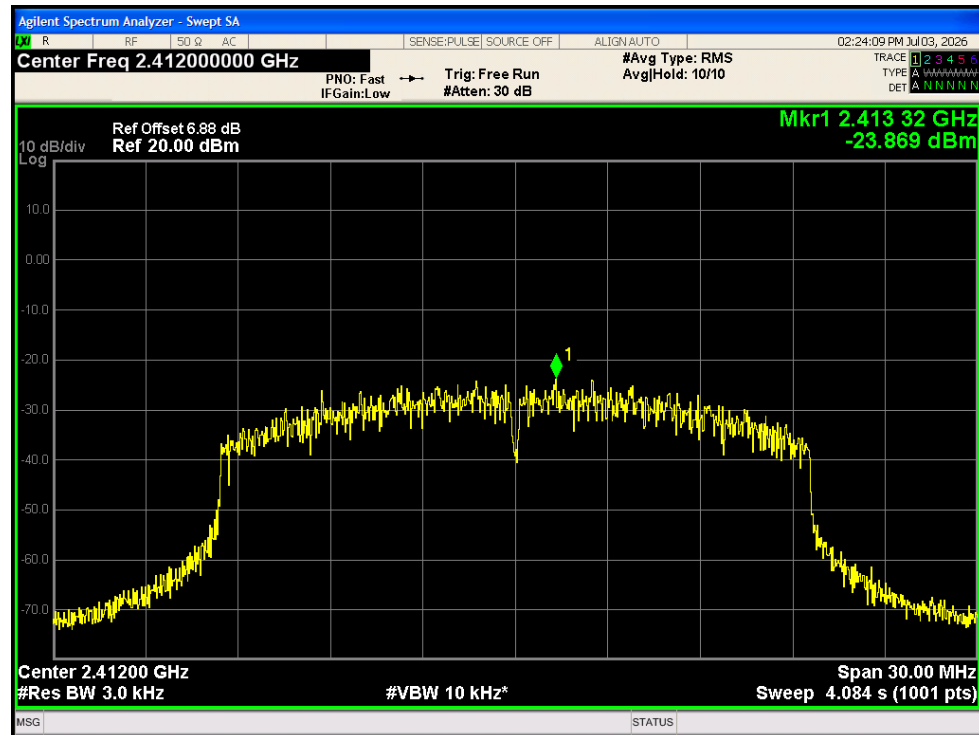
PSD NVNT n40 2437MHz



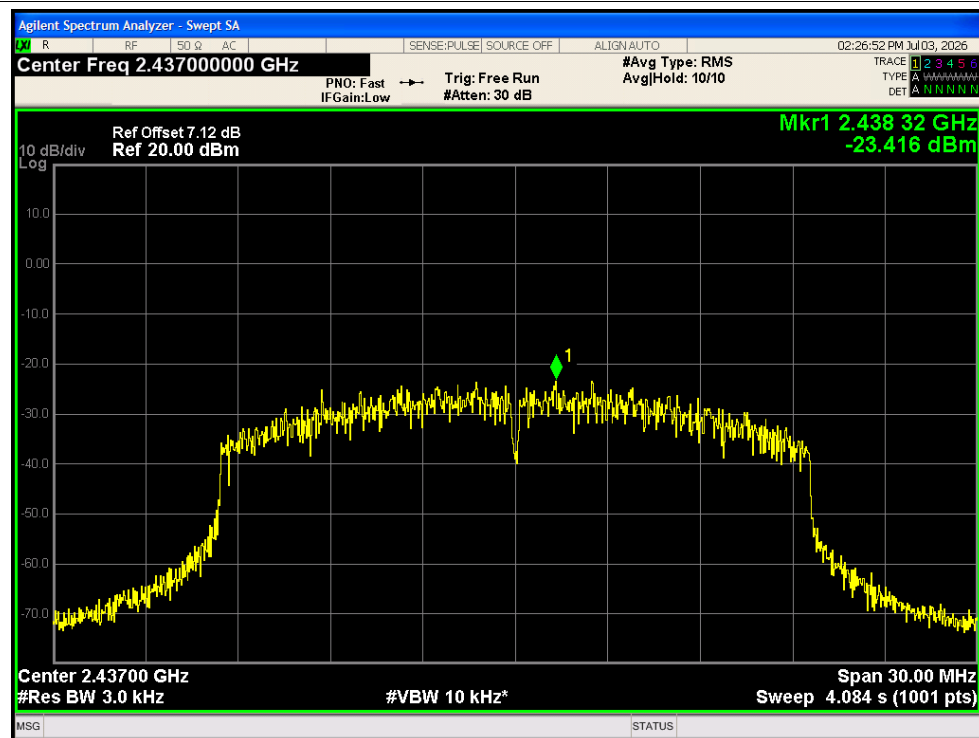
PSD NVNT n40 2452MHz



PSD NVNT ax20 2412MHz



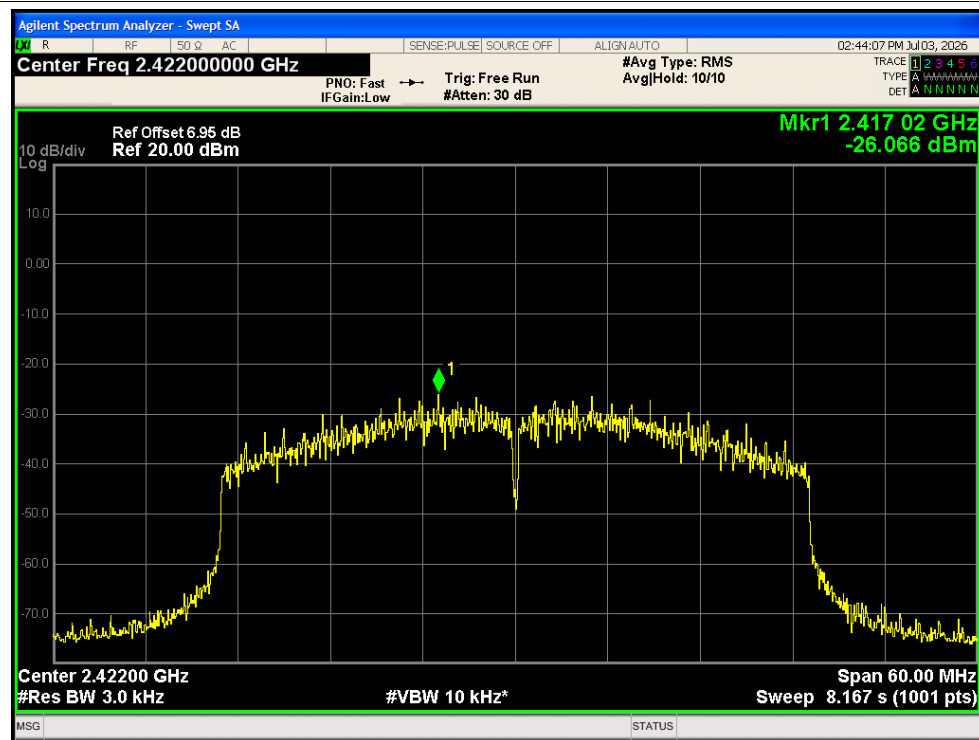
PSD NVNT ax20 2437MHz



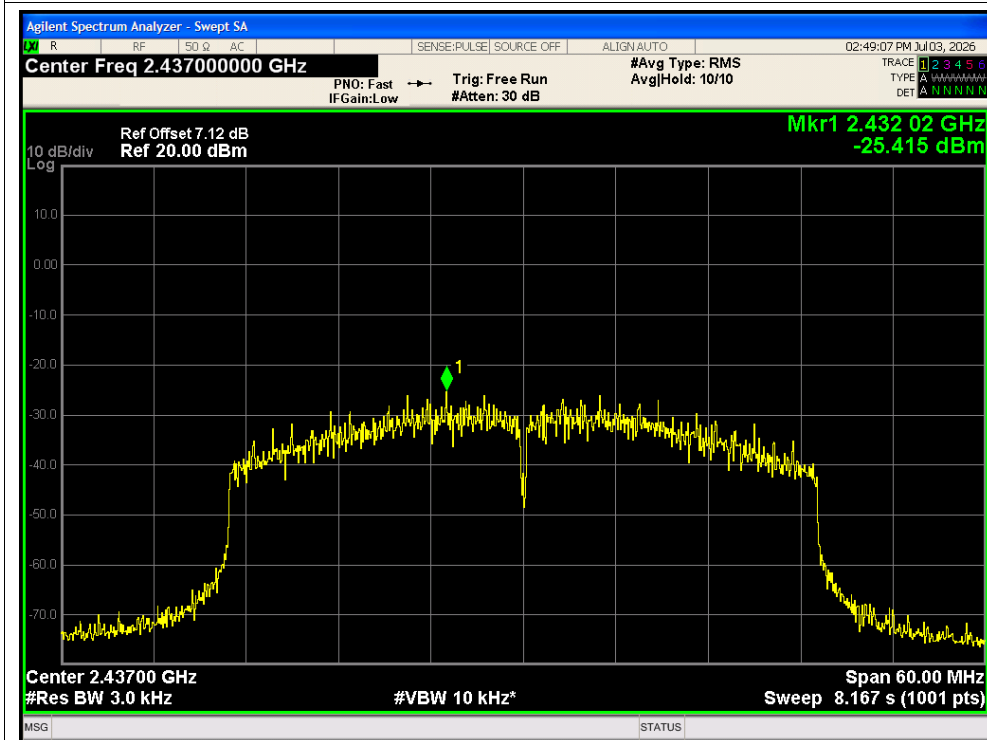
PSD NVNT ax20 2462MHz



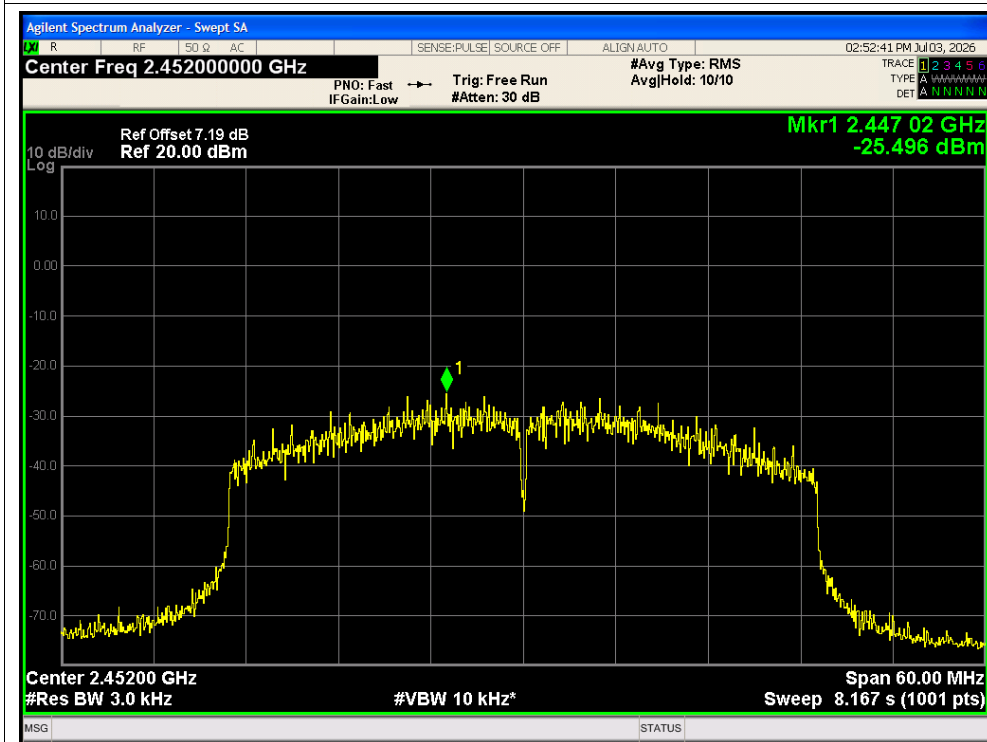
PSD NVNT ax40 2422MHz



PSD NVNT ax40 2437MHz



PSD NVNT ax40 2452MHz

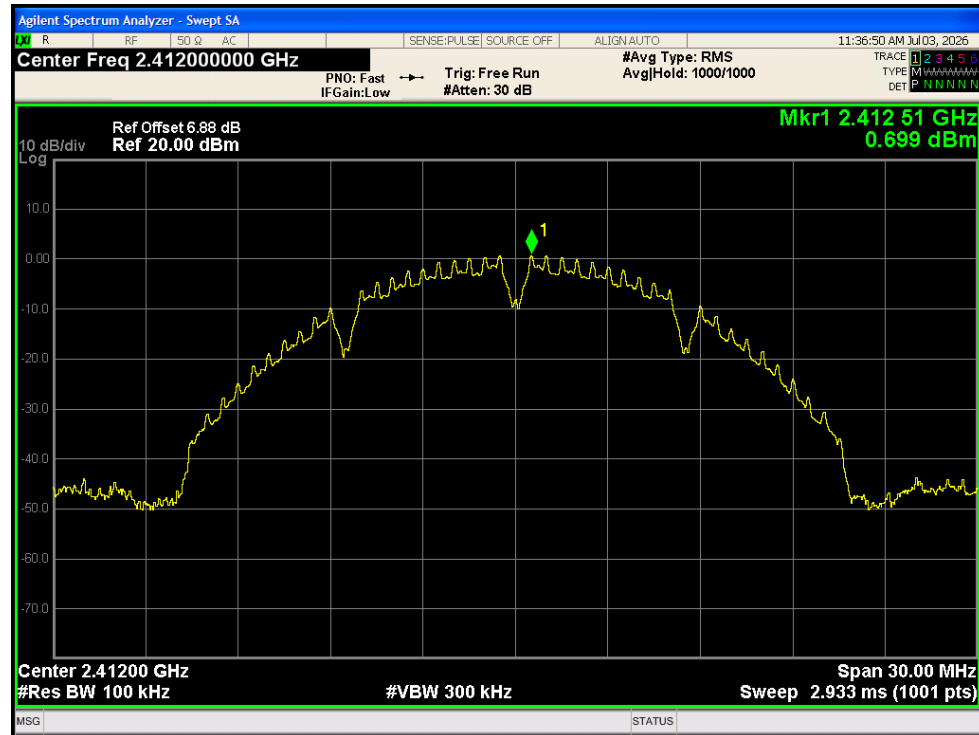


Band Edge

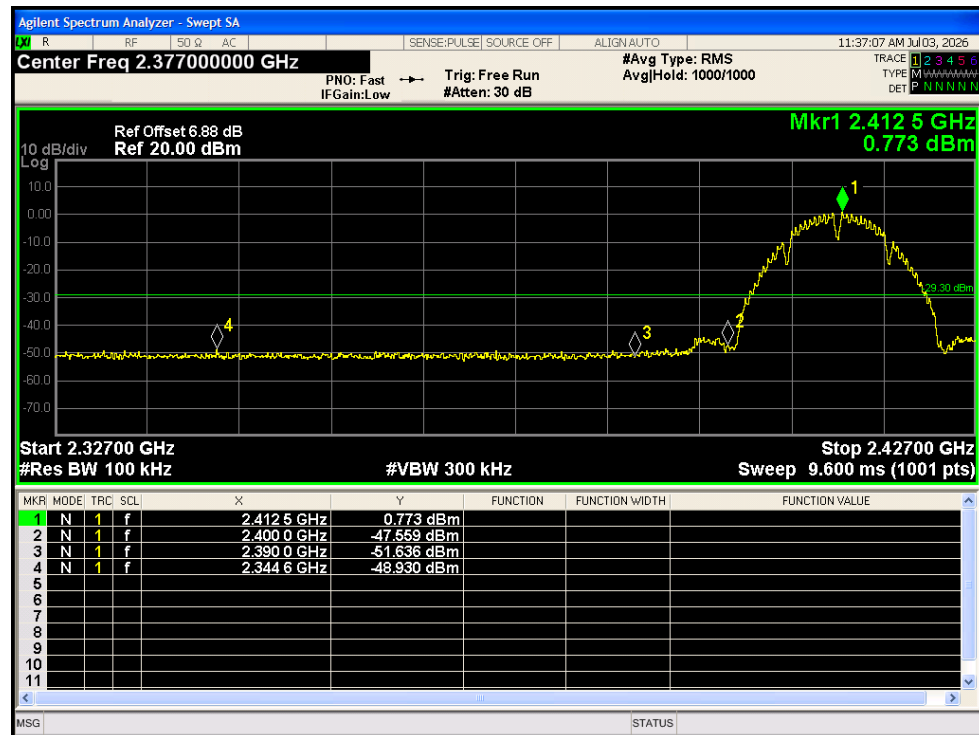
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	-49.62	-30	Pass
NVNT	b	2462	-50.63	-30	Pass
NVNT	g	2412	-47.50	-30	Pass
NVNT	g	2462	-47.60	-30	Pass
NVNT	n20	2412	-50.42	-30	Pass
NVNT	n20	2462	-48.44	-30	Pass
NVNT	n40	2422	-44.88	-30	Pass
NVNT	n40	2452	-49.45	-30	Pass
NVNT	ax20	2412	-47.07	-30	Pass
NVNT	ax20	2462	-48.29	-30	Pass
NVNT	ax40	2422	-42.71	-30	Pass
NVNT	ax40	2452	-47.22	-30	Pass

Test Graphs

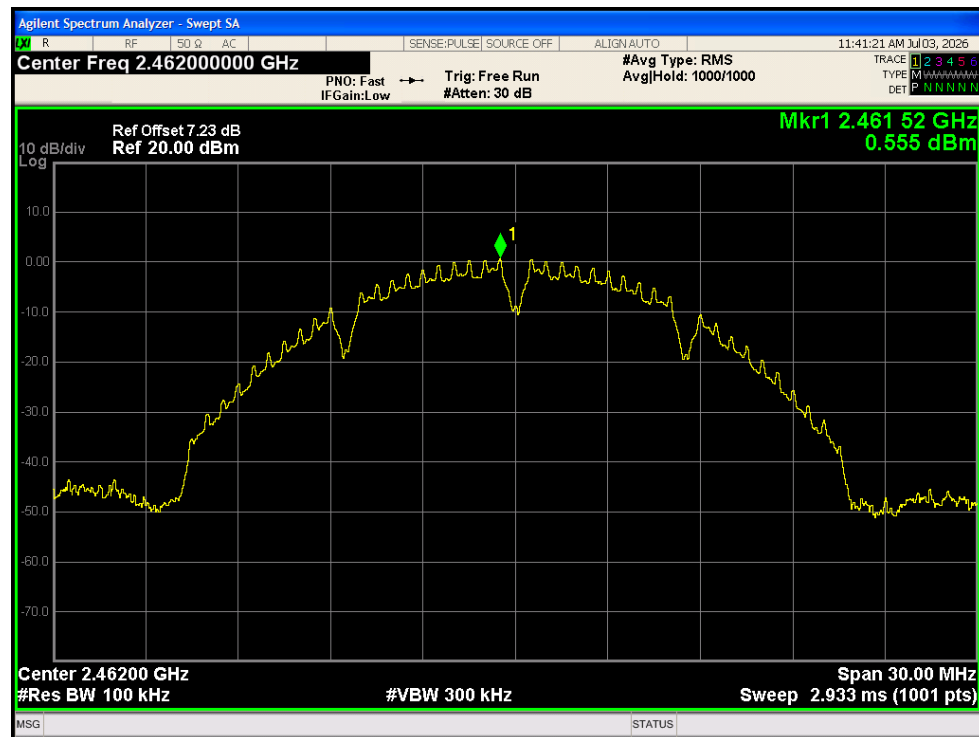
Band Edge NVNT b 2412MHz Ref



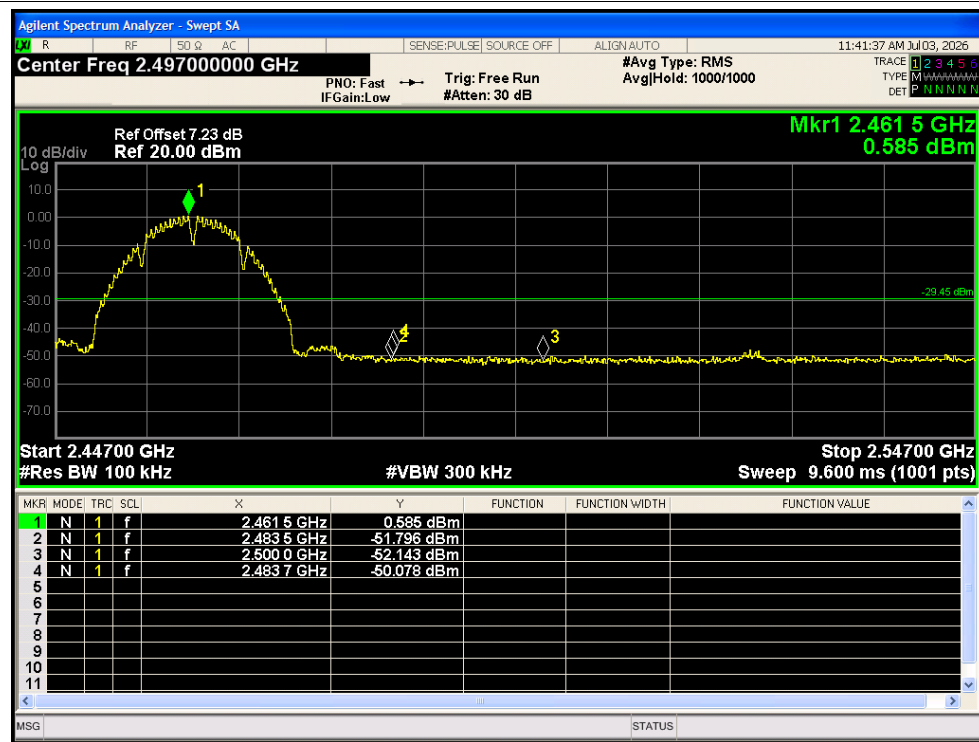
Band Edge NVNT b 2412MHz Emission



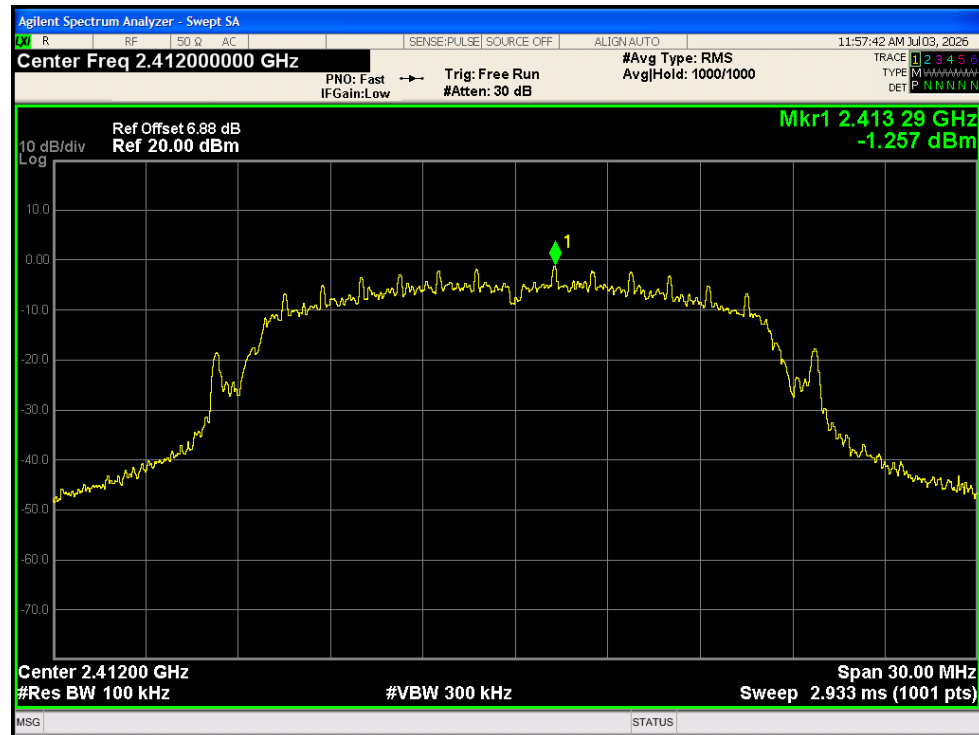
Band Edge NVNT b 2462MHz Ref



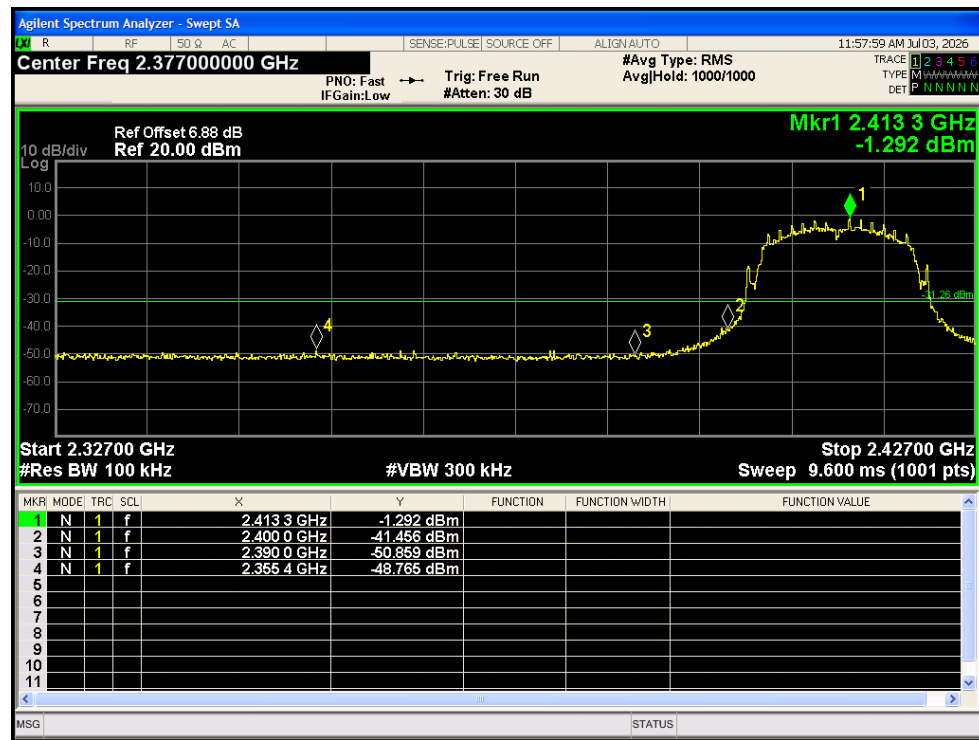
Band Edge NVNT b 2462MHz Emission



Band Edge NVNT g 2412MHz Ref



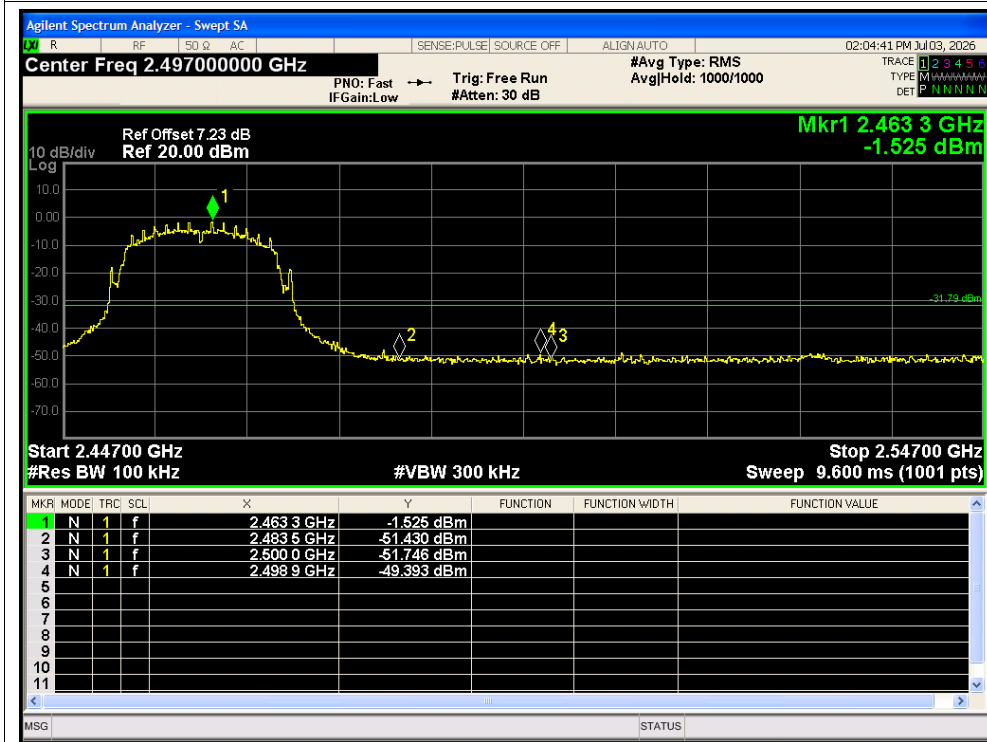
Band Edge NVNT g 2412MHz Emission



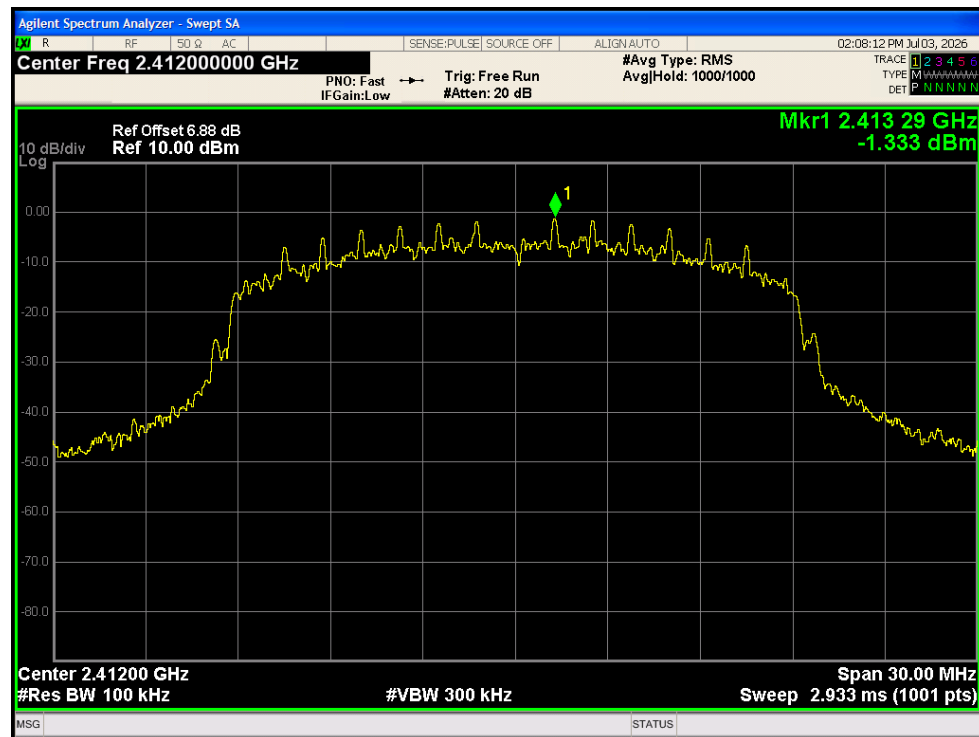
Band Edge NVNT g 2462MHz Ref



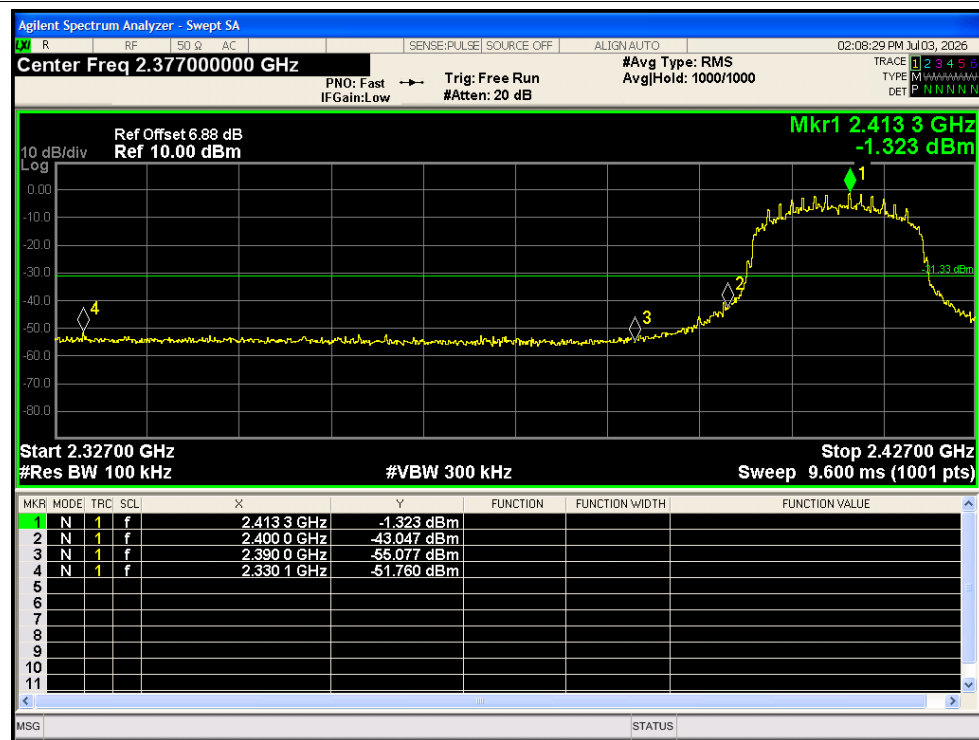
Band Edge NVNT g 2462MHz Emission



Band Edge NVNT n20 2412MHz Ref



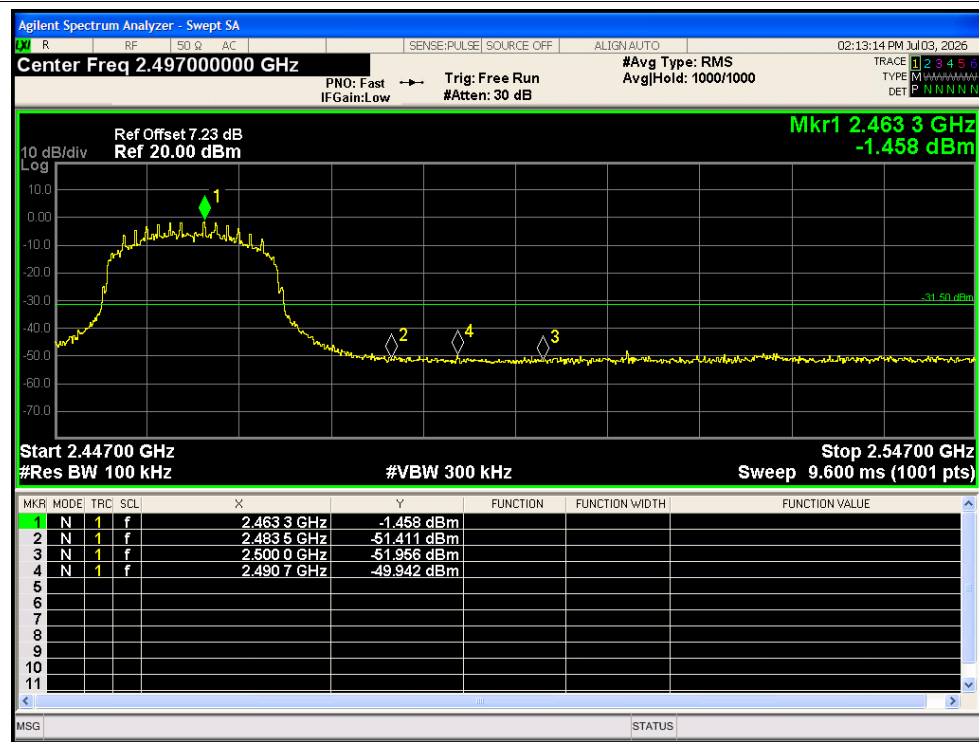
Band Edge NVNT n20 2412MHz Emission



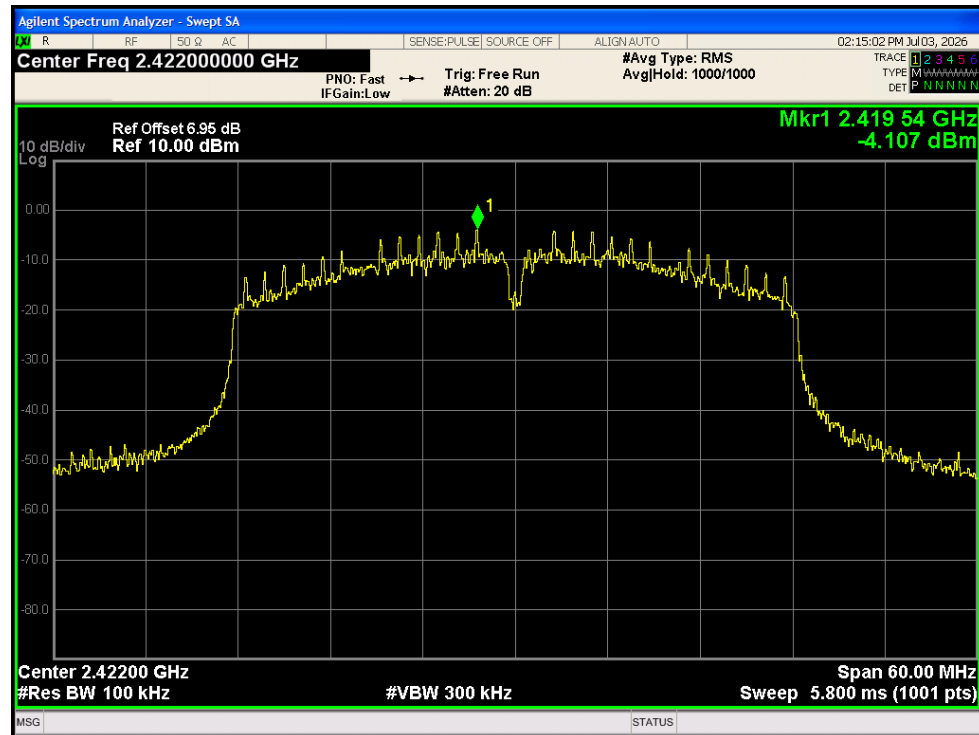
Band Edge NVNT n20 2462MHz Ref



Band Edge NVNT n20 2462MHz Emission



Band Edge NVNT n40 2422MHz Ref



Band Edge NVNT n40 2422MHz Emission

