

ANNEX

FCC Part 15C Test Report

FCC ID: 2BCCW-PF30

Applicant: Shenzhen Qianfeng Technology Co., Ltd.

Address: 2nd Floor, Building 2, Fuxingda Industrial Park, Lanzhubei Road, Pingshan District, Shenzhen, China

Manufacturer: Shenzhen Qianfeng Technology Co., Ltd.

Address: 2nd Floor, Building 2, Fuxingda Industrial Park, Lanzhubei Road, Pingshan District, Shenzhen, China

EUT: Smart Pet Feeder

Trade Mark: N/A

Model Number: PF30, PF4LW100

Date of Receipt: Jul. 23, 2023

Test Date: Jul. 23, 2023 - Aug. 11, 2023

Date of Report: Aug. 11, 2023

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

Address: 101-201, Building C, Shuanghuan, No.8, Baoqing Road, Baolong Industrial Zone, Baolong Street, Longgang District, Shenzhen, Guangdong, China

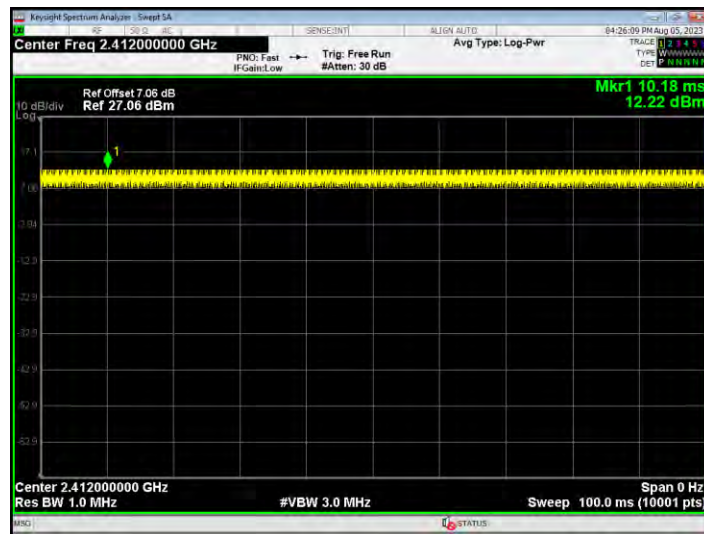
Applicable Standards: FCC PART 15 C 15.247
ANSI C63.10:2013

Test Result: Pass

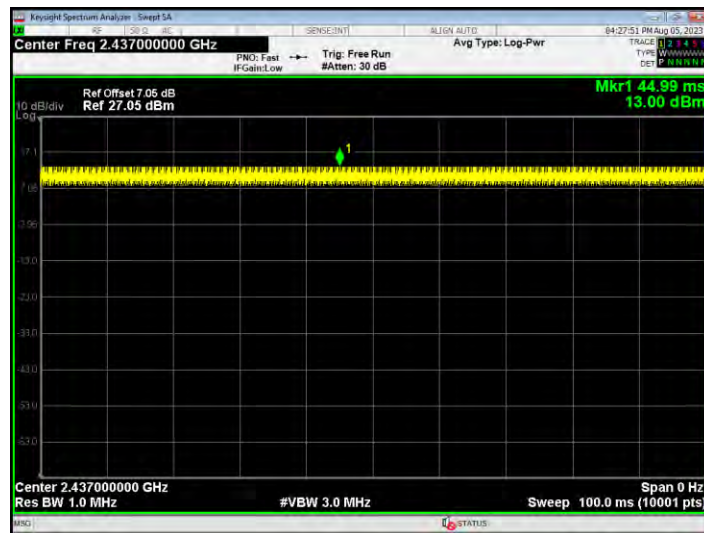
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	b	2412	Ant1	100	0
NVNT	b	2437	Ant1	100	0
NVNT	b	2462	Ant1	100	0
NVNT	g	2412	Ant1	100	0
NVNT	g	2437	Ant1	100	0
NVNT	g	2462	Ant1	100	0
NVNT	n20	2412	Ant1	100	0
NVNT	n20	2437	Ant1	100	0
NVNT	n20	2462	Ant1	100	0

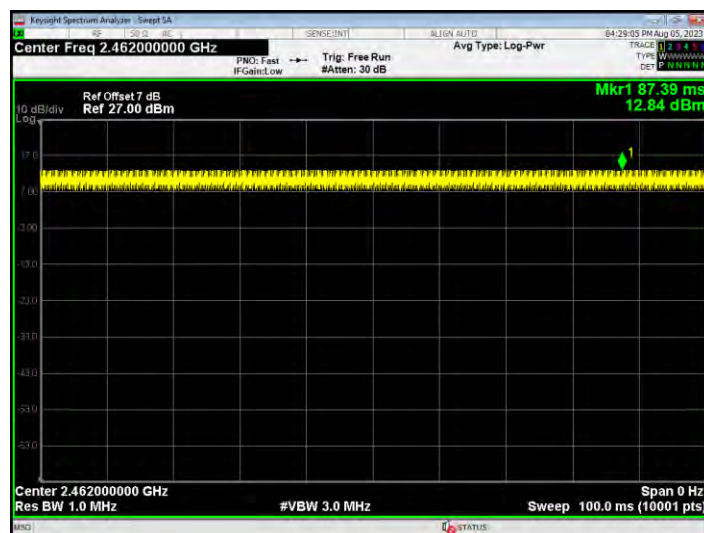
Duty Cycle NVNT b 2412MHz Ant1



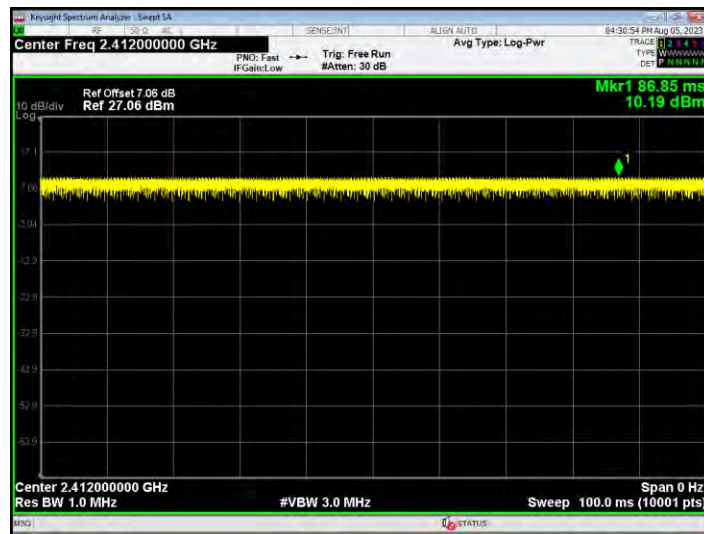
Duty Cycle NVNT b 2437MHz Ant1



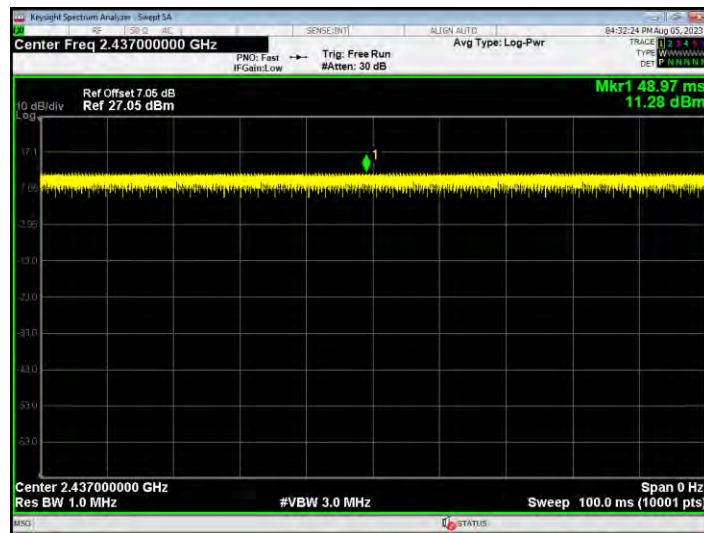
Duty Cycle NVNT b 2462MHz Ant1



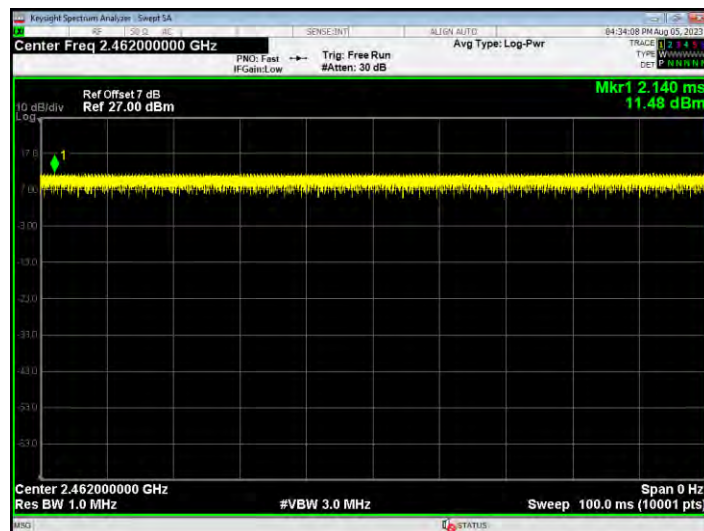
Duty Cycle NVNT g 2412MHz Ant1



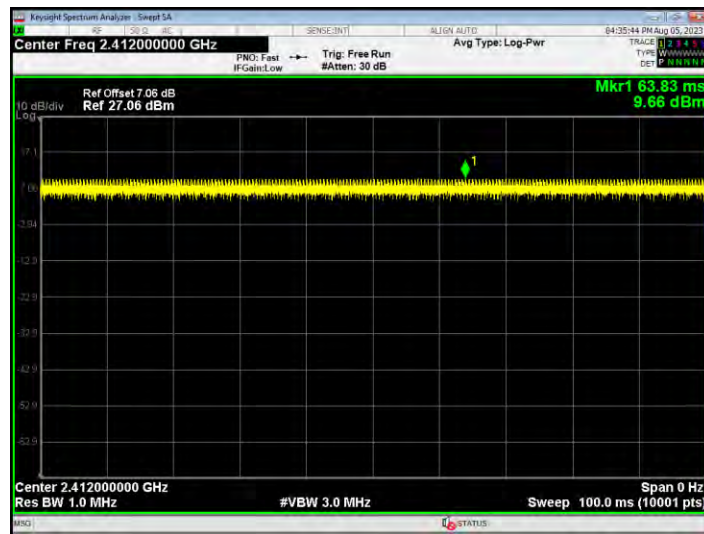
Duty Cycle NVNT g 2437MHz Ant1



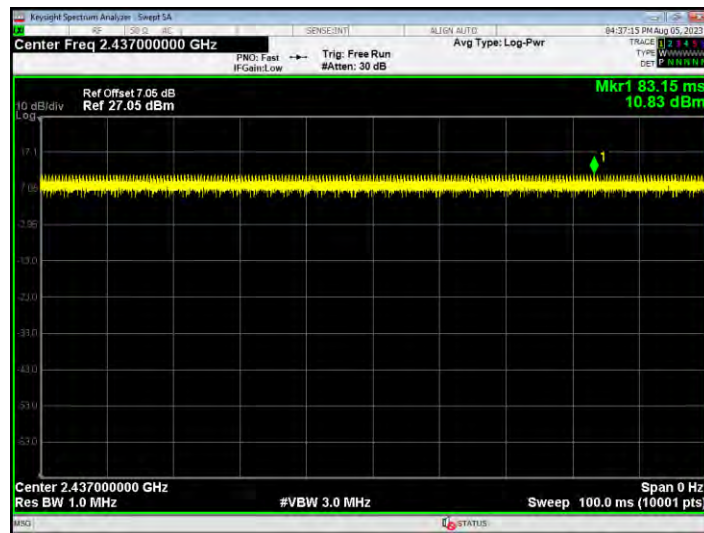
Duty Cycle NVNT g 2462MHz Ant1



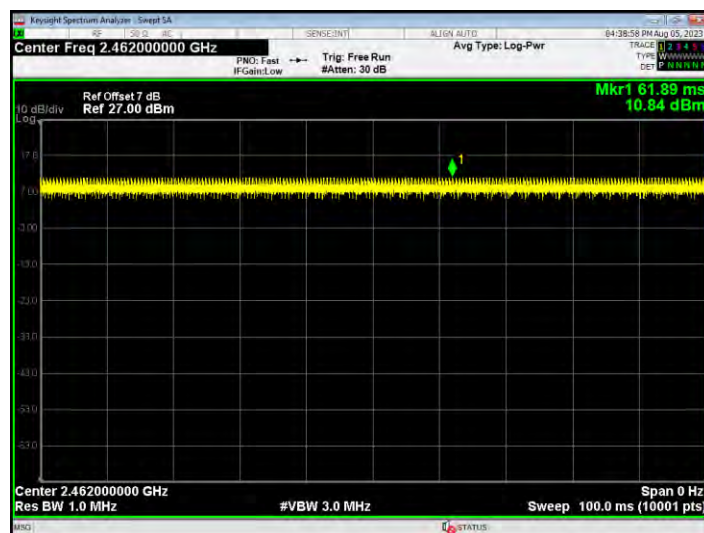
Duty Cycle NVNT n20 2412MHz Ant1



Duty Cycle NVNT n20 2437MHz Ant1



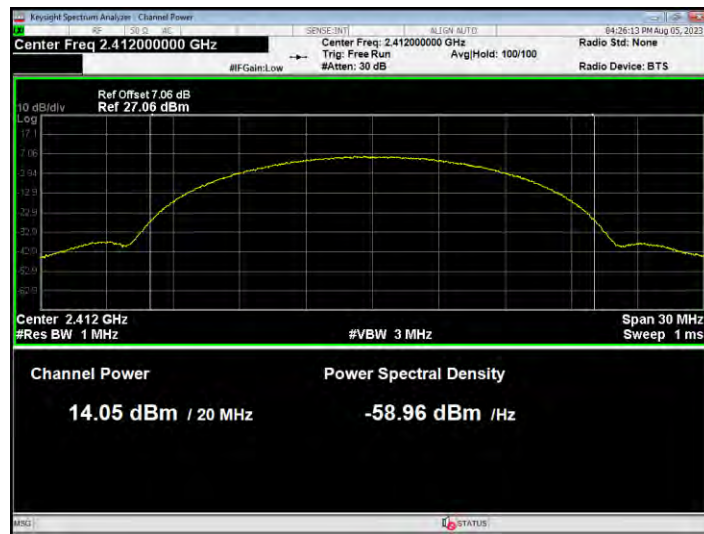
Duty Cycle NVNT n20 2462MHz Ant1



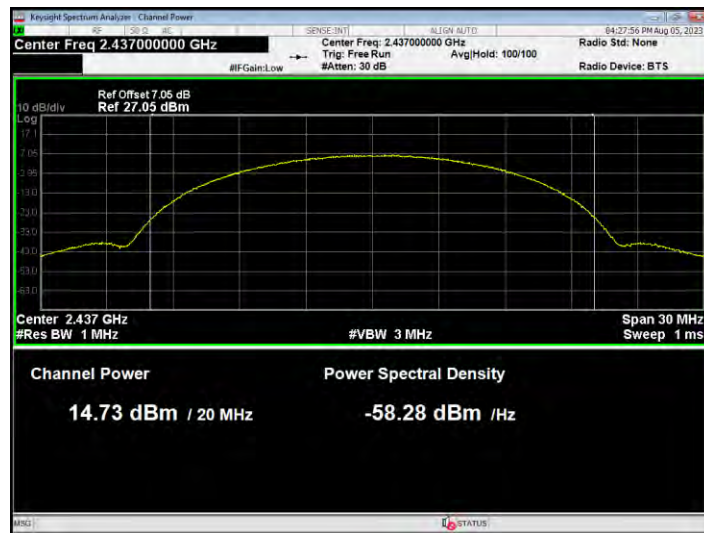
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	14.051	0	14.051	30	Pass
NVNT	b	2437	Ant1	14.73	0	14.73	30	Pass
NVNT	b	2462	Ant1	14.568	0	14.568	30	Pass
NVNT	g	2412	Ant1	15.271	0	15.271	30	Pass
NVNT	g	2437	Ant1	16.33	0	16.33	30	Pass
NVNT	g	2462	Ant1	16.491	0	16.491	30	Pass
NVNT	n20	2412	Ant1	14.634	0	14.634	30	Pass
NVNT	n20	2437	Ant1	15.541	0	15.541	30	Pass
NVNT	n20	2462	Ant1	15.728	0	15.728	30	Pass

Power NVNT b 2412MHz Ant1



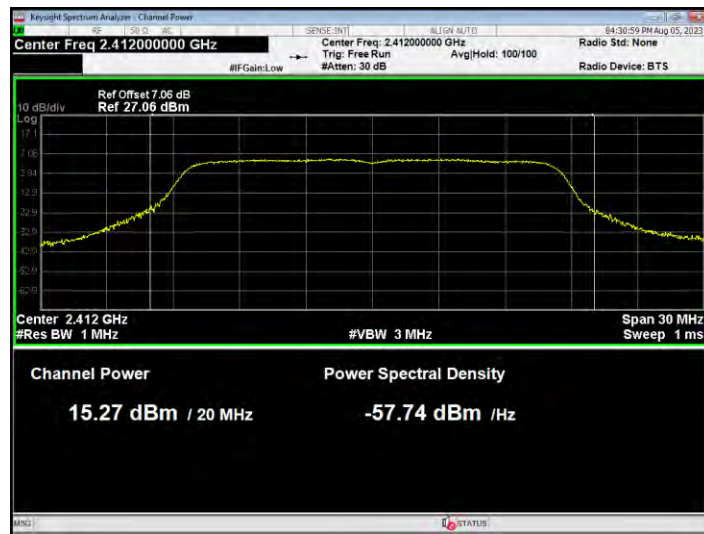
Power NVNT b 2437MHz Ant1



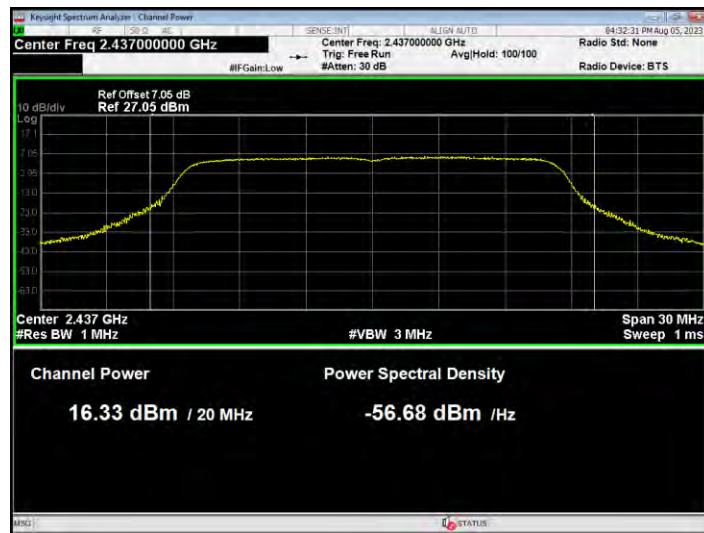
Power NVNT b 2462MHz Ant1



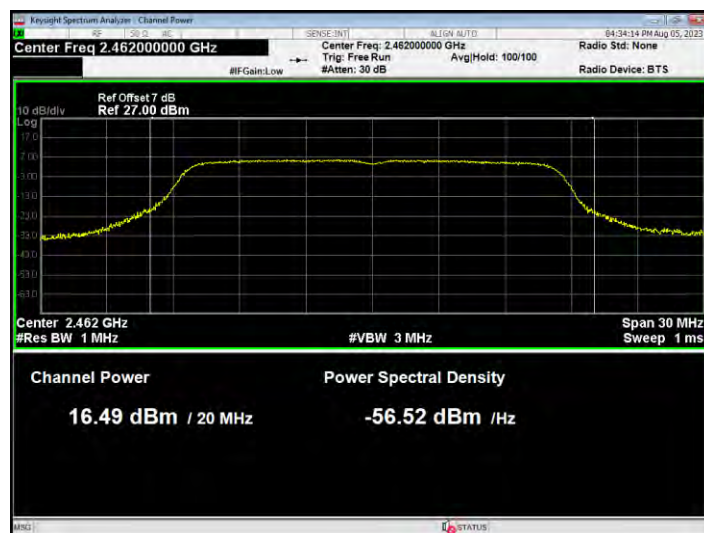
Power NVNT g 2412MHz Ant1



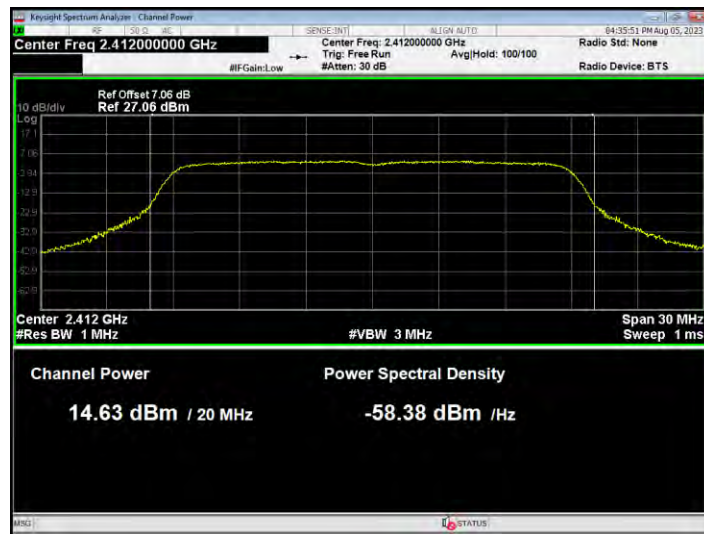
Power NVNT g 2437MHz Ant1



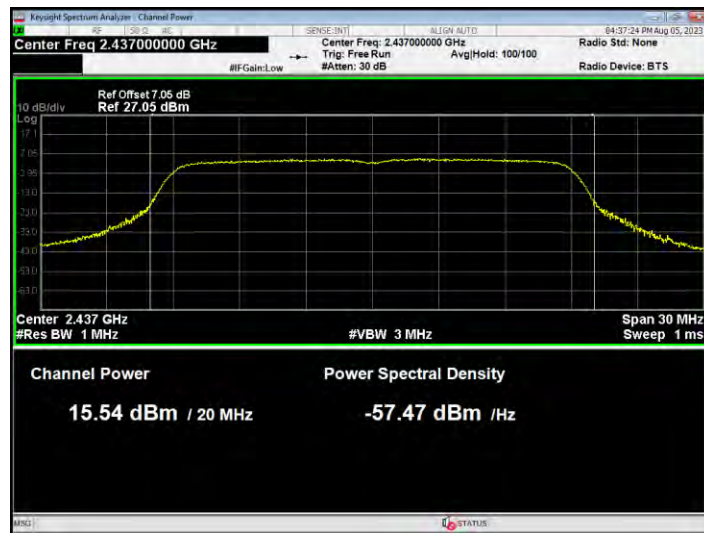
Power NVNT g 2462MHz Ant1



Power NVNT n20 2412MHz Ant1



Power NVNT n20 2437MHz Ant1



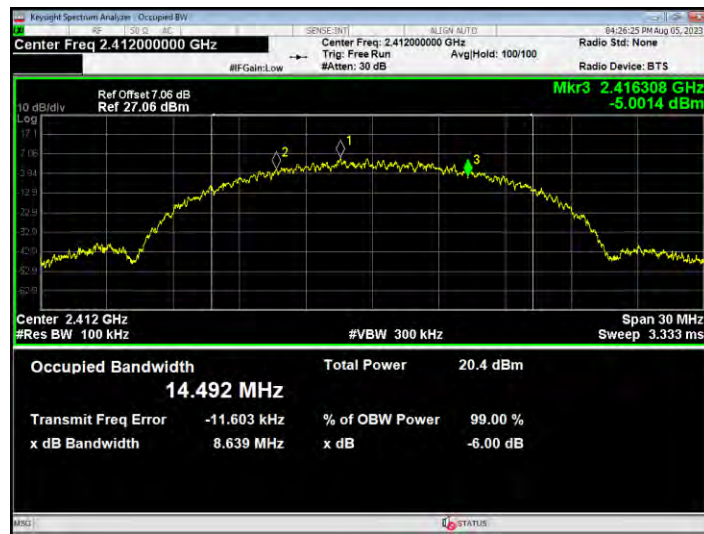
Power NVNT n20 2462MHz Ant1



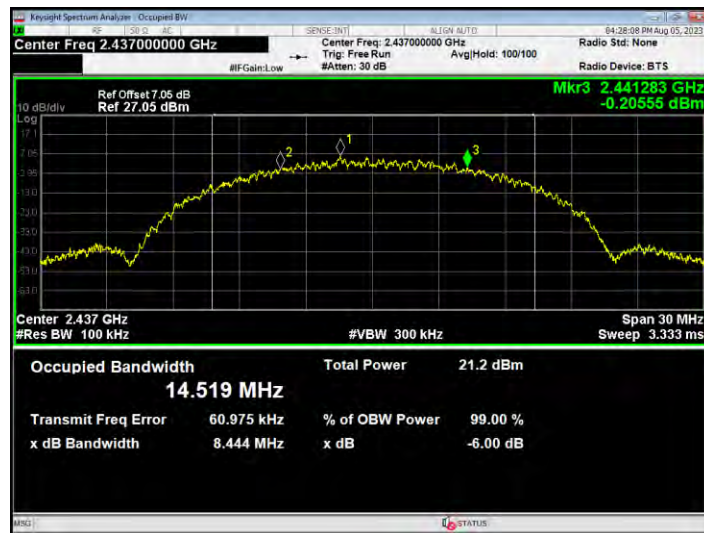
-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.639	0.5	Pass
NVNT	b	2437	Ant1	8.444	0.5	Pass
NVNT	b	2462	Ant1	8.685	0.5	Pass
NVNT	g	2412	Ant1	16.466	0.5	Pass
NVNT	g	2437	Ant1	16.485	0.5	Pass
NVNT	g	2462	Ant1	16.501	0.5	Pass
NVNT	n20	2412	Ant1	17.732	0.5	Pass
NVNT	n20	2437	Ant1	17.703	0.5	Pass
NVNT	n20	2462	Ant1	17.696	0.5	Pass

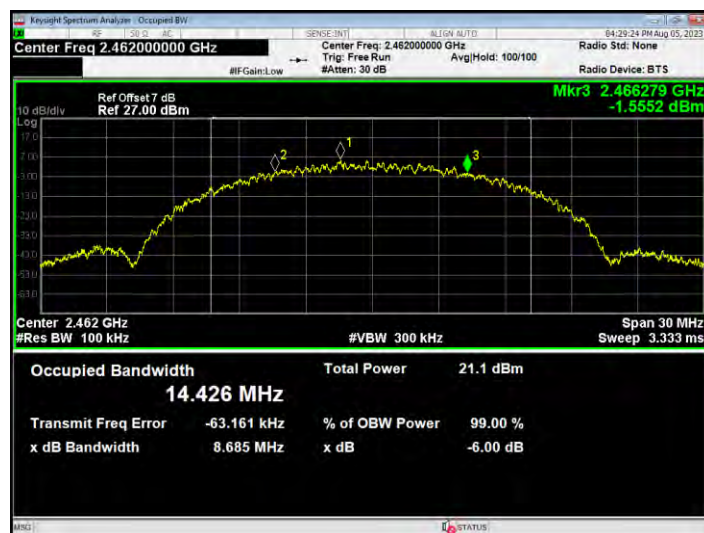
-6dB Bandwidth NVNT b 2412MHz Ant1



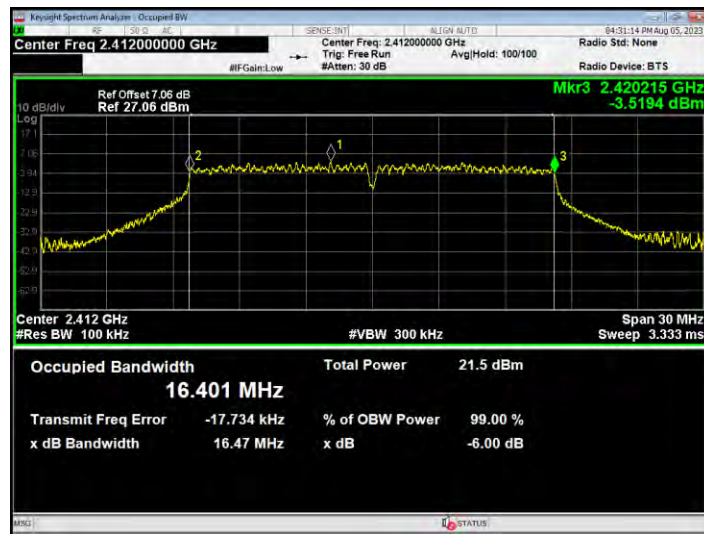
-6dB Bandwidth NVNT b 2437MHz Ant1



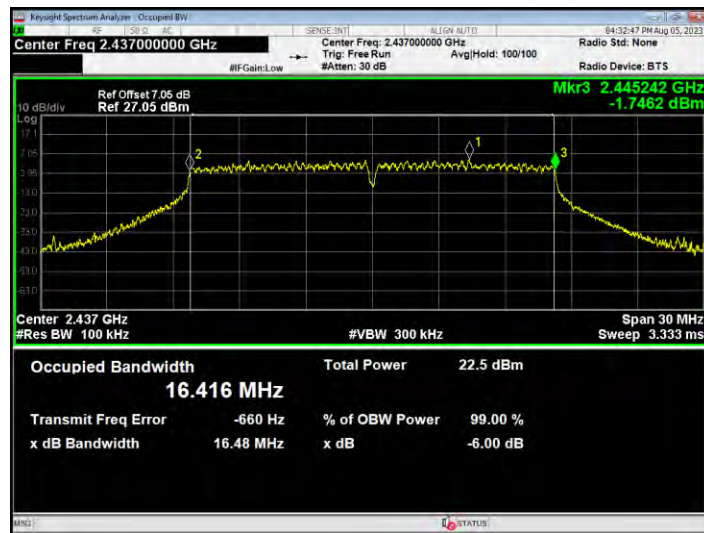
-6dB Bandwidth NVNT b 2462MHz Ant1



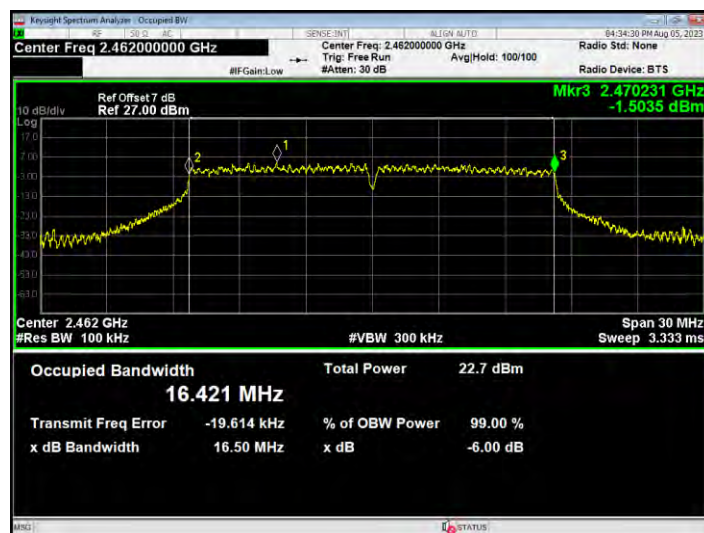
-6dB Bandwidth NVNT g 2412MHz Ant1



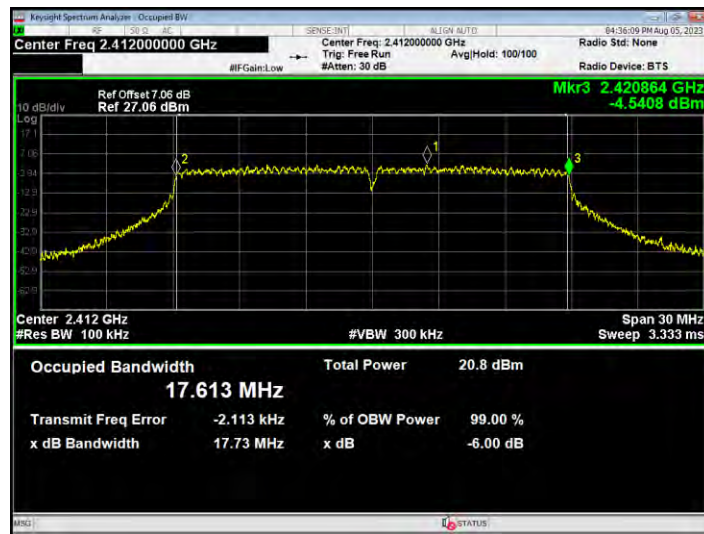
-6dB Bandwidth NVNT g 2437MHz Ant1



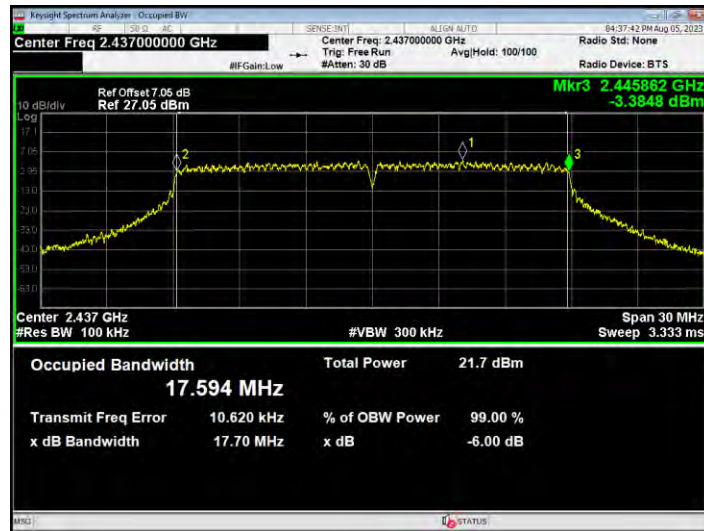
-6dB Bandwidth NVNT g 2462MHz Ant1



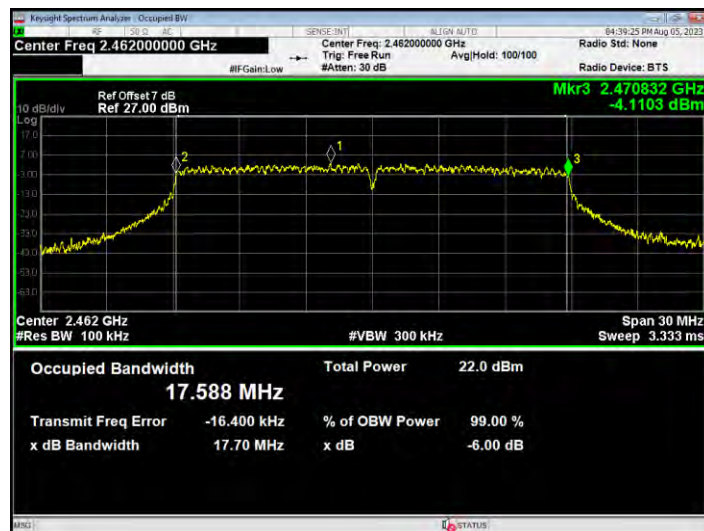
-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1



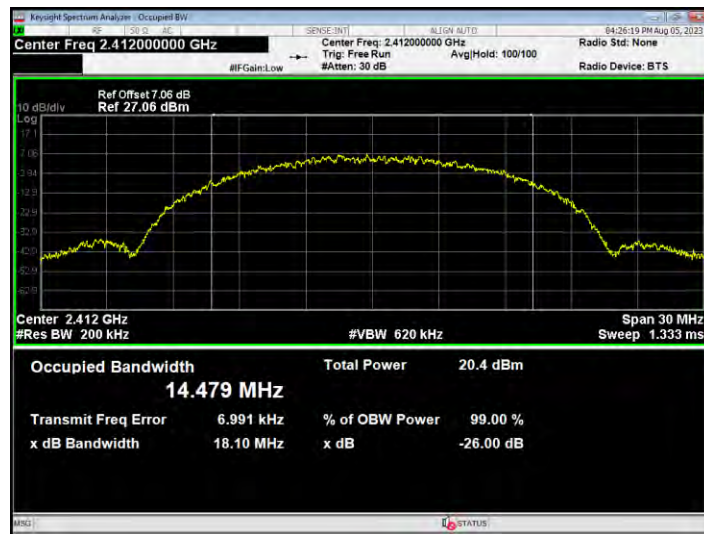
-6dB Bandwidth NVNT n20 2462MHz Ant1



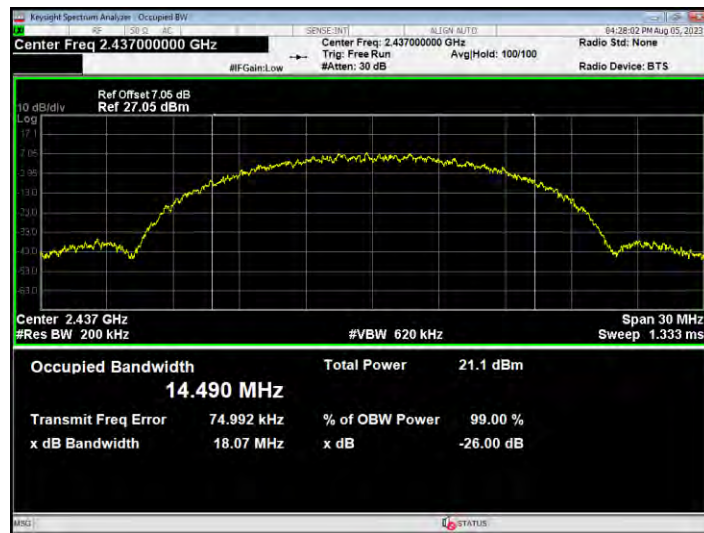
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	14.47926228
NVNT	b	2437	Ant1	14.49021828
NVNT	b	2462	Ant1	14.3874479
NVNT	g	2412	Ant1	16.45494221
NVNT	g	2437	Ant1	16.47689055
NVNT	g	2462	Ant1	16.47478783
NVNT	n20	2412	Ant1	17.59109157
NVNT	n20	2437	Ant1	17.62778322
NVNT	n20	2462	Ant1	17.61590275

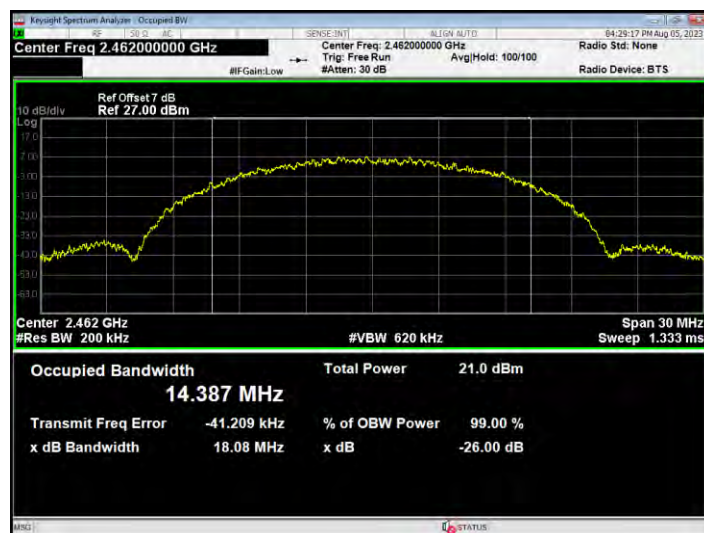
OBW NVNT b 2412MHz Ant1



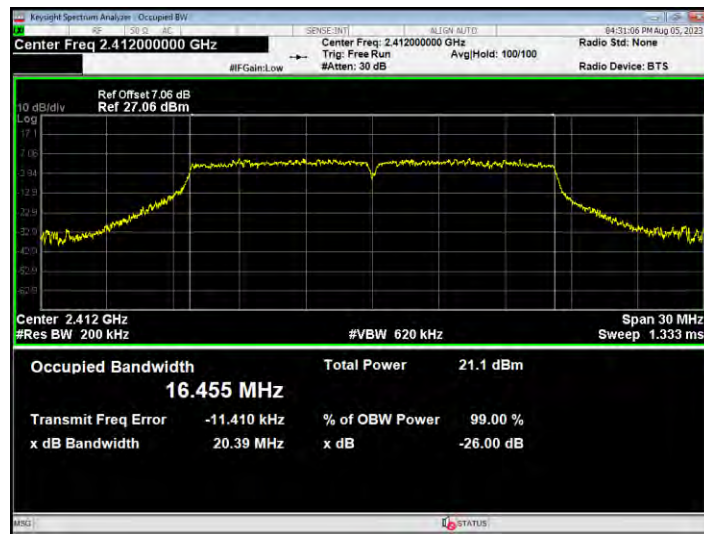
OBW NVNT b 2437MHz Ant1



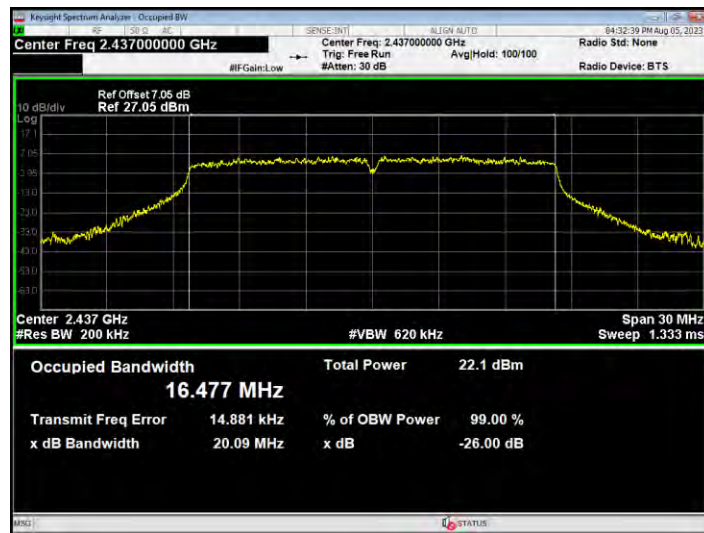
OBW NVNT b 2462MHz Ant1



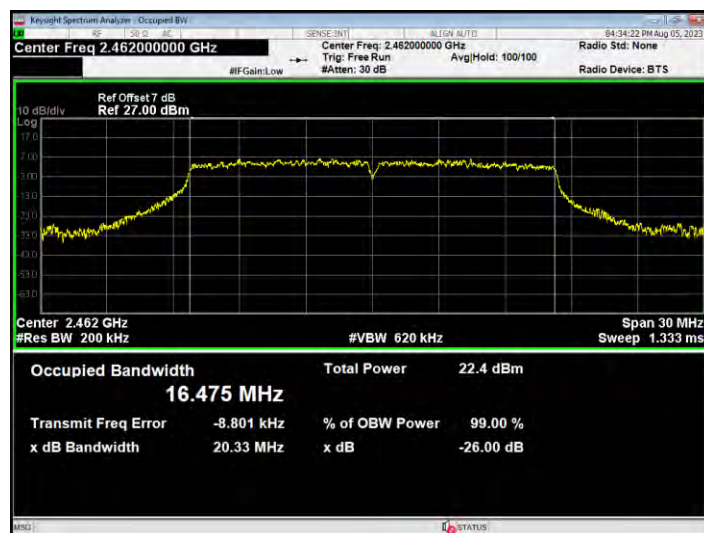
OBW NVNT g 2412MHz Ant1



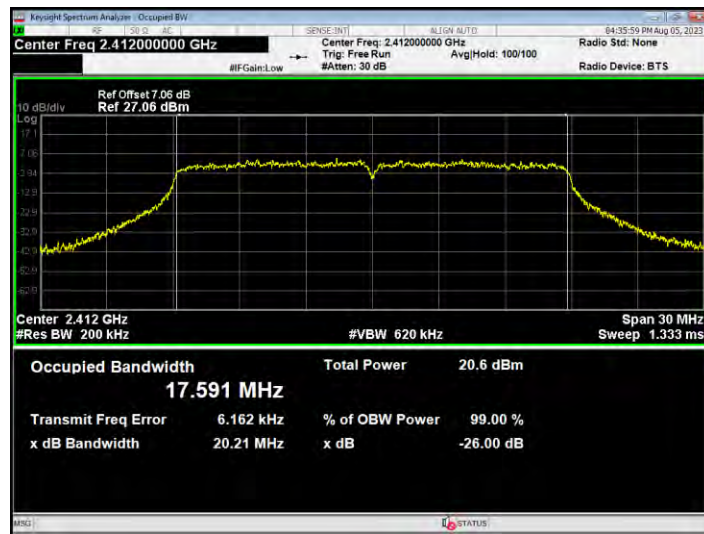
OBW NVNT g 2437MHz Ant1



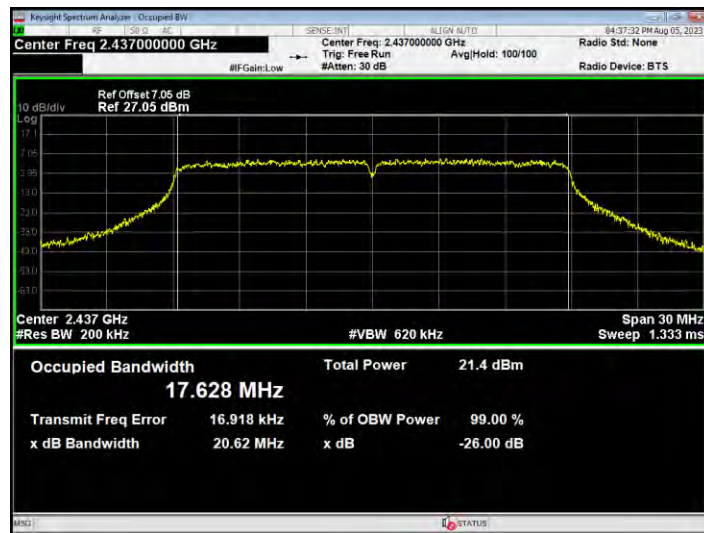
OBW NVNT g 2462MHz Ant1



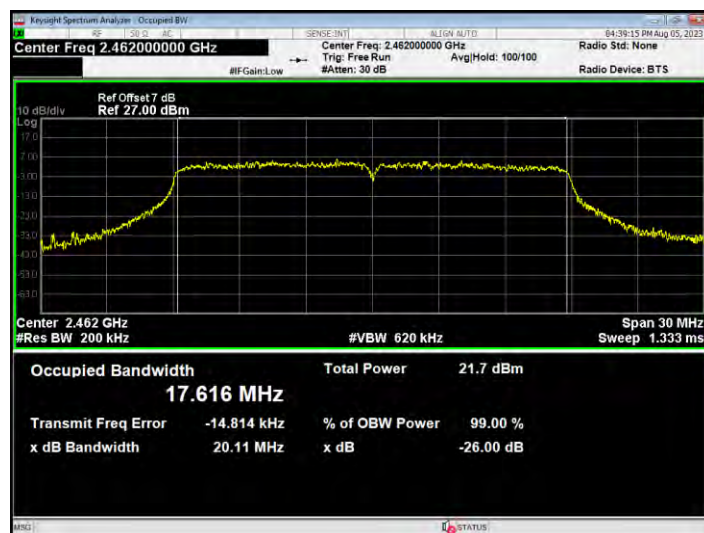
OBW NVNT n20 2412MHz Ant1



OBW NVNT n20 2437MHz Ant1



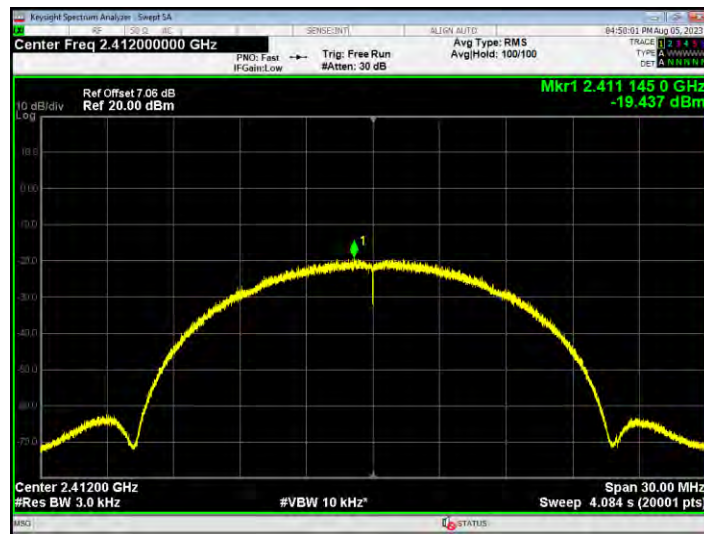
OBW NVNT n20 2462MHz Ant1



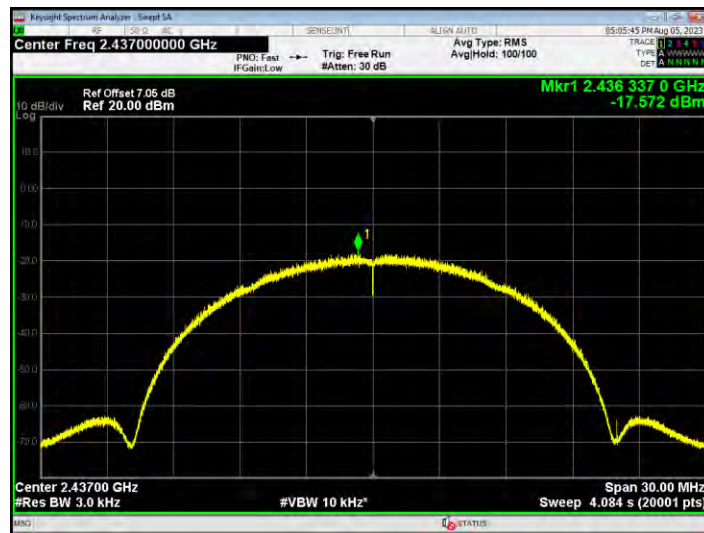
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-19.437	8	Pass
NVNT	b	2437	Ant1	-17.572	8	Pass
NVNT	b	2462	Ant1	-17.647	8	Pass
NVNT	g	2412	Ant1	-12.952	8	Pass
NVNT	g	2437	Ant1	-12.829	8	Pass
NVNT	g	2462	Ant1	-12.568	8	Pass
NVNT	n20	2412	Ant1	-14.065	8	Pass
NVNT	n20	2437	Ant1	-12.878	8	Pass
NVNT	n20	2462	Ant1	-14.084	8	Pass

PSD NVNT b 2412MHz Ant1



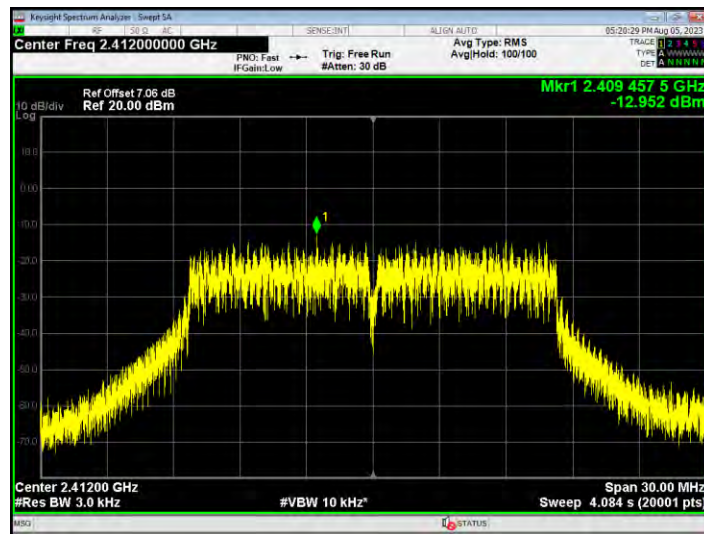
PSD NVNT b 2437MHz Ant1



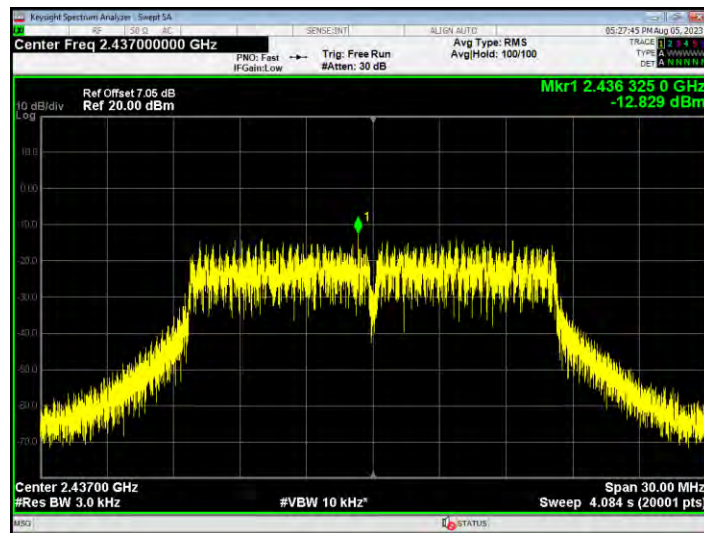
PSD NVNT b 2462MHz Ant1



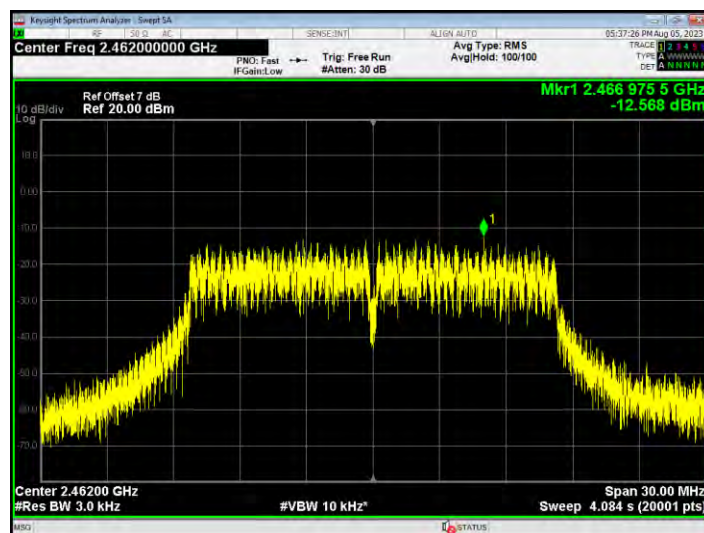
PSD NVNT g 2412MHz Ant1



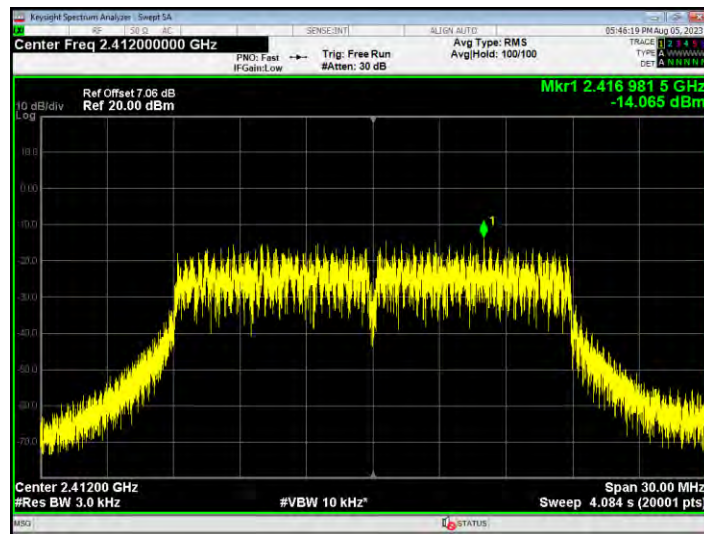
PSD NVNT g 2437MHz Ant1



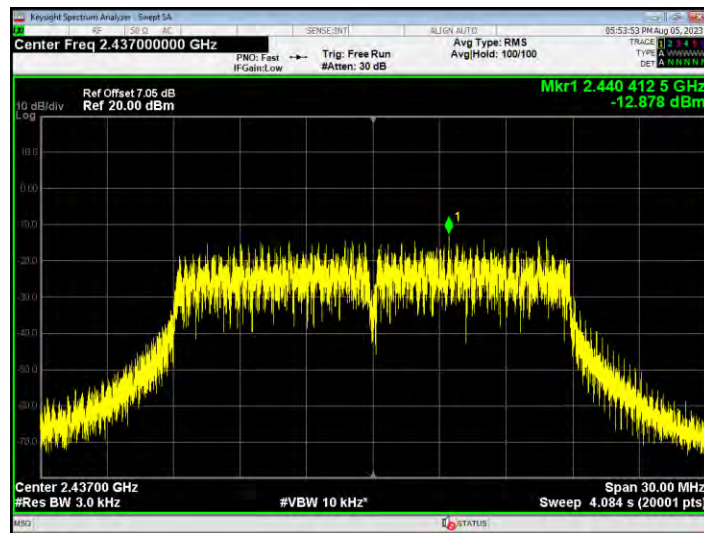
PSD NVNT g 2462MHz Ant1



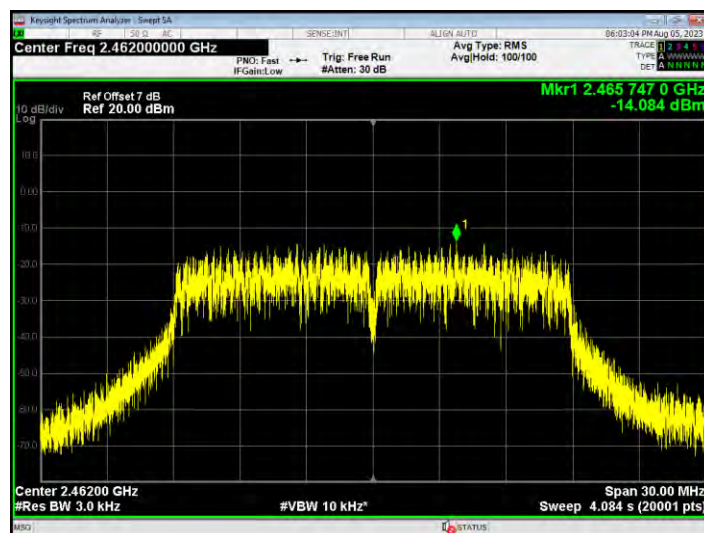
PSD NVNT n20 2412MHz Ant1



PSD NVNT n20 2437MHz Ant1



PSD NVNT n20 2462MHz Ant1



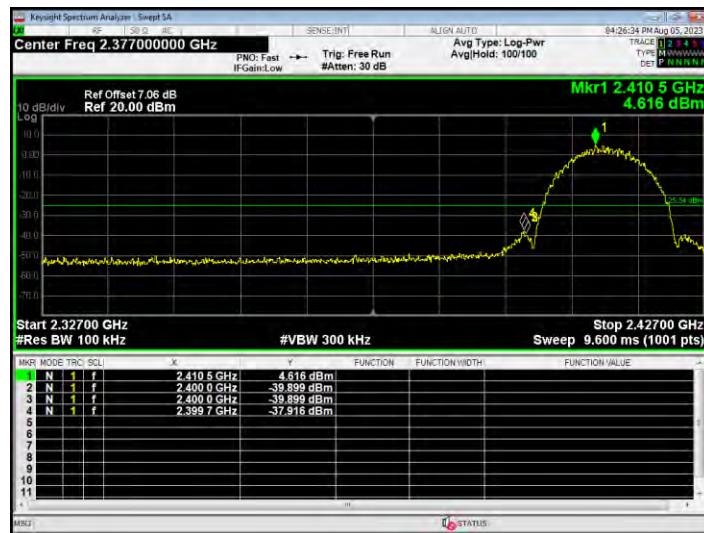
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-42.57	-30	Pass
NVNT	b	2462	Ant1	-54.41	-30	Pass
NVNT	g	2412	Ant1	-34.78	-30	Pass
NVNT	g	2462	Ant1	-46.69	-30	Pass
NVNT	n20	2412	Ant1	-36.72	-30	Pass
NVNT	n20	2462	Ant1	-44.74	-30	Pass

Band Edge NVNT b 2412MHz Ant1 Ref



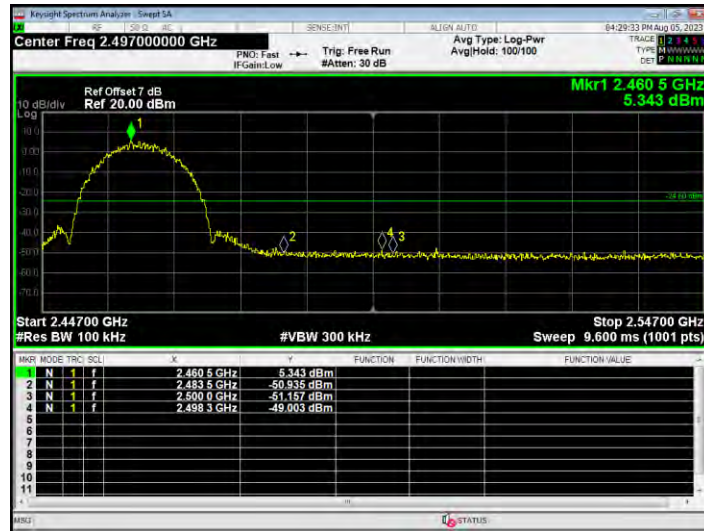
Band Edge NVNT b 2412MHz Ant1 Emission



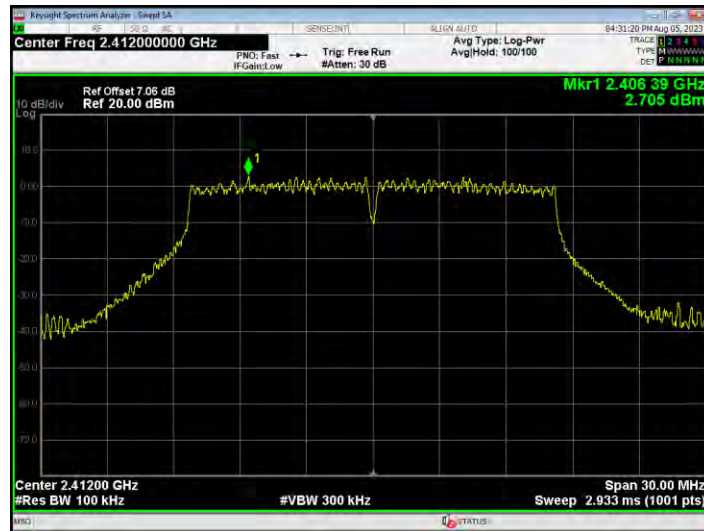
Band Edge NVNT b 2462MHz Ant1 Ref



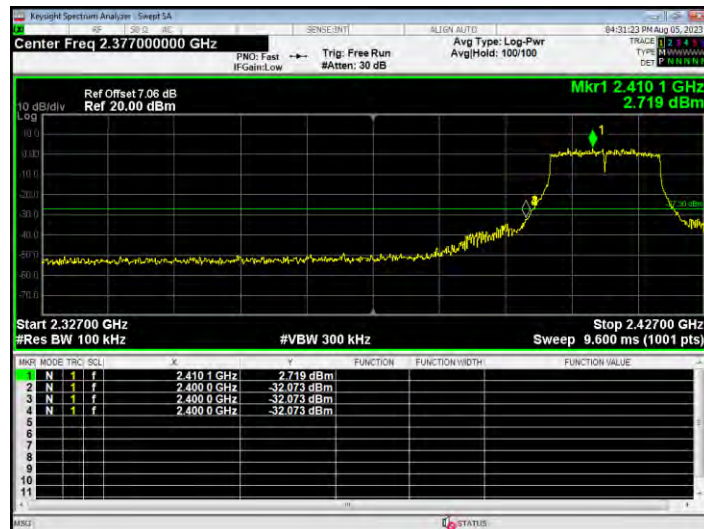
Band Edge NVNT b 2462MHz Ant1 Emission



Band Edge NVNT g 2412MHz Ant1 Ref



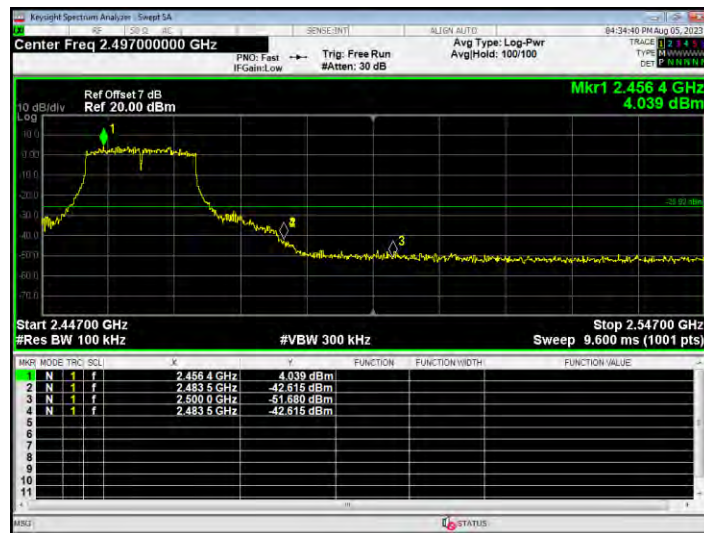
Band Edge NVNT g 2412MHz Ant1 Emission



Band Edge NVNT g 2462MHz Ant1 Ref



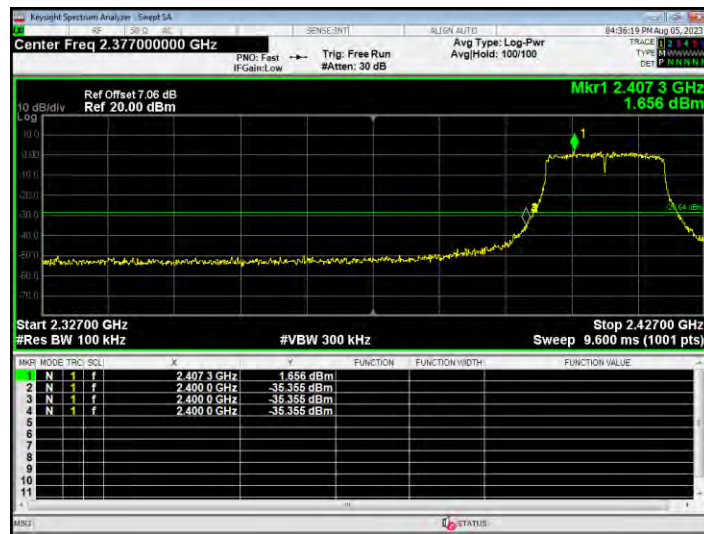
Band Edge NVNT g 2462MHz Ant1 Emission



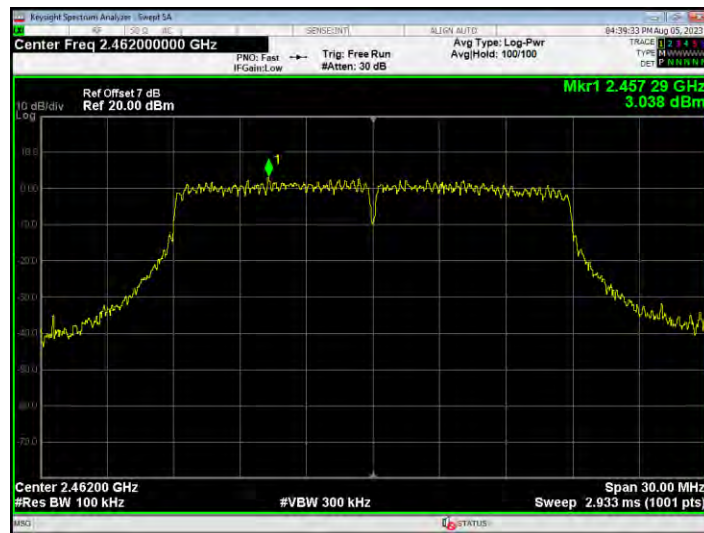
Band Edge NVNT n20 2412MHz Ant1 Ref



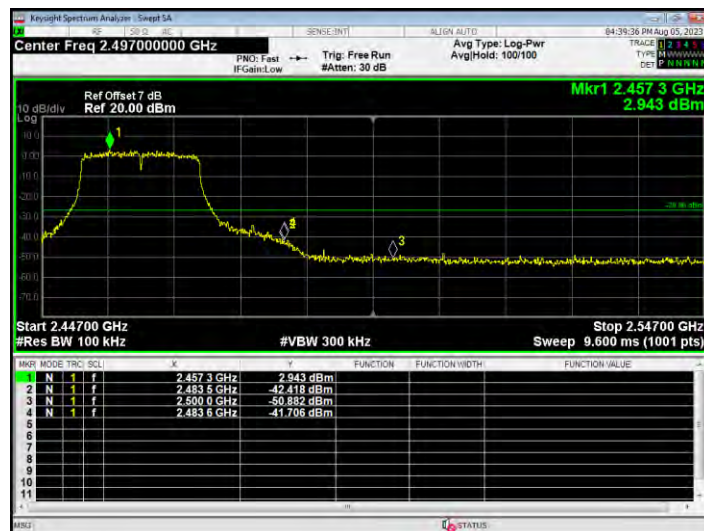
Band Edge NVNT n20 2412MHz Ant1 Emission



Band Edge NVNT n20 2462MHz Ant1 Ref



Band Edge NVNT n20 2462MHz Ant1 Emission



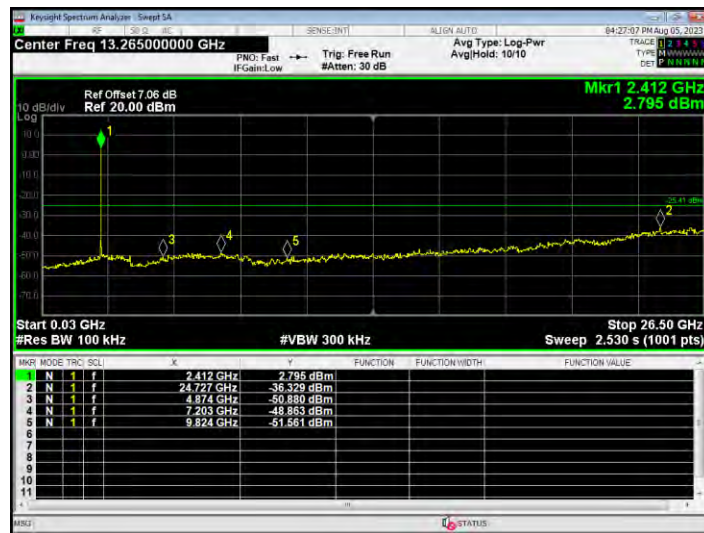
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-40.92	-30	Pass
NVNT	b	2437	Ant1	-40.83	-30	Pass
NVNT	b	2462	Ant1	-41.2	-30	Pass
NVNT	g	2412	Ant1	-37.69	-30	Pass
NVNT	g	2437	Ant1	-40.32	-30	Pass
NVNT	g	2462	Ant1	-39.78	-30	Pass
NVNT	n20	2412	Ant1	-37.86	-30	Pass
NVNT	n20	2437	Ant1	-38.04	-30	Pass
NVNT	n20	2462	Ant1	-38.19	-30	Pass

Tx. Spurious NVNT b 2412MHz Ant1 Ref



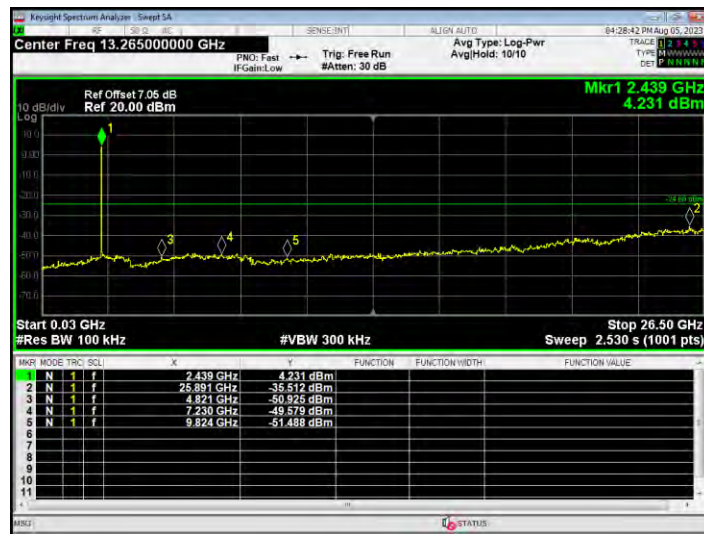
Tx. Spurious NVNT b 2412MHz Ant1 Emission



Tx. Spurious NVNT b 2437MHz Ant1 Ref



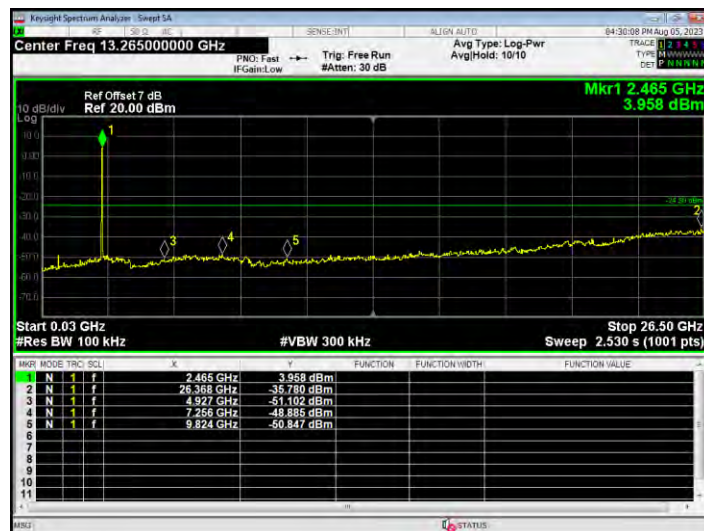
Tx. Spurious NVNT b 2437MHz Ant1 Emission



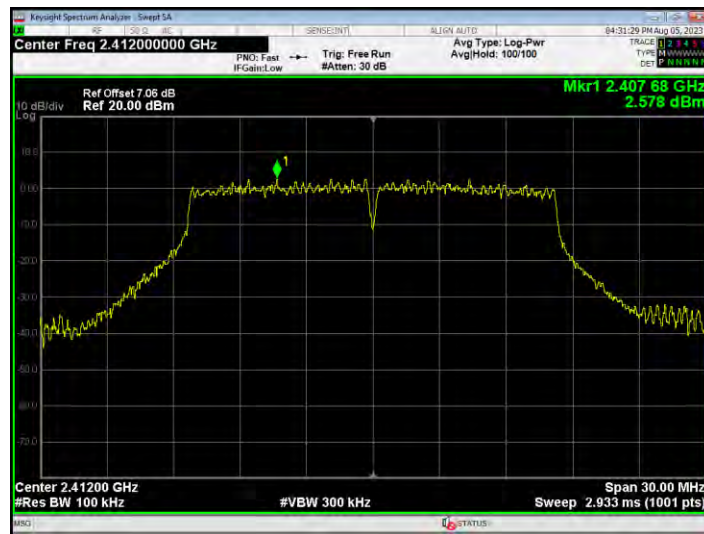
Tx. Spurious NVNT b 2462MHz Ant1 Ref



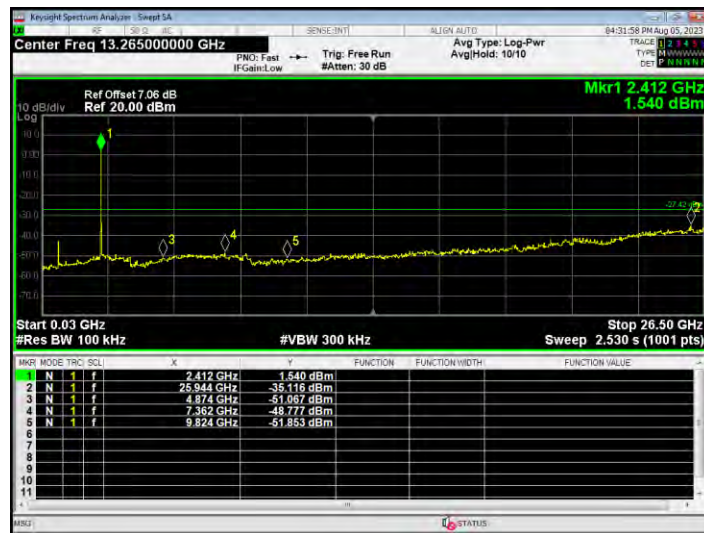
Tx. Spurious NVNT b 2462MHz Ant1 Emission



Tx. Spurious NVNT g 2412MHz Ant1 Ref



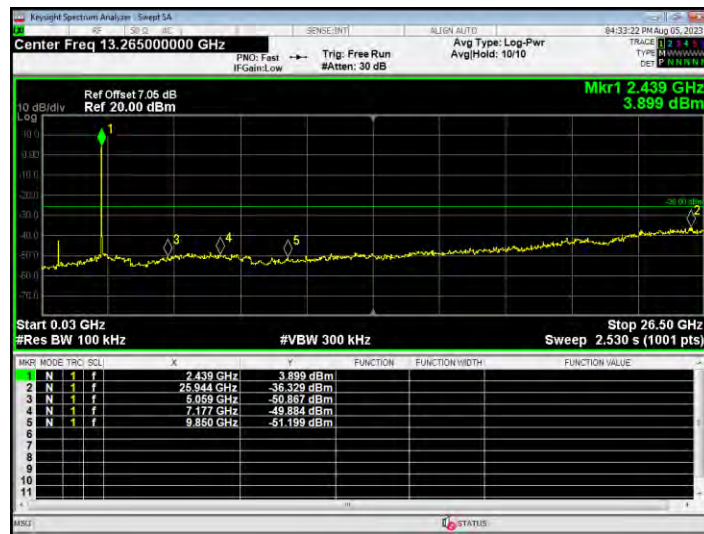
Tx. Spurious NVNT g 2412MHz Ant1 Emission



Tx. Spurious NVNT g 2437MHz Ant1 Ref



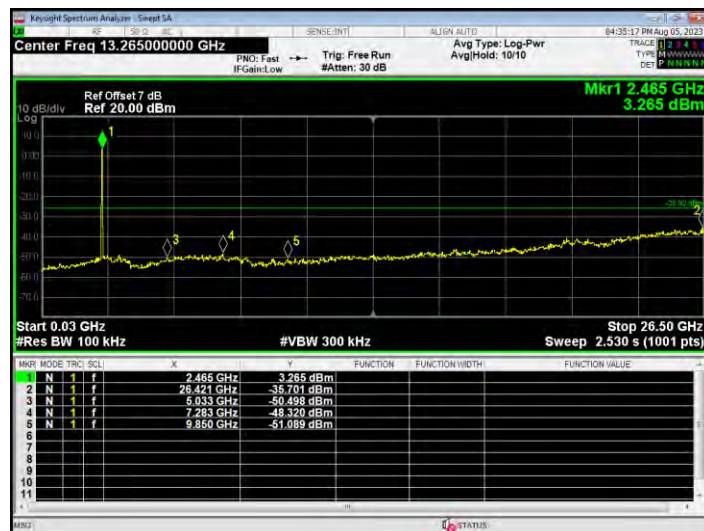
Tx. Spurious NVNT g 2437MHz Ant1 Emission



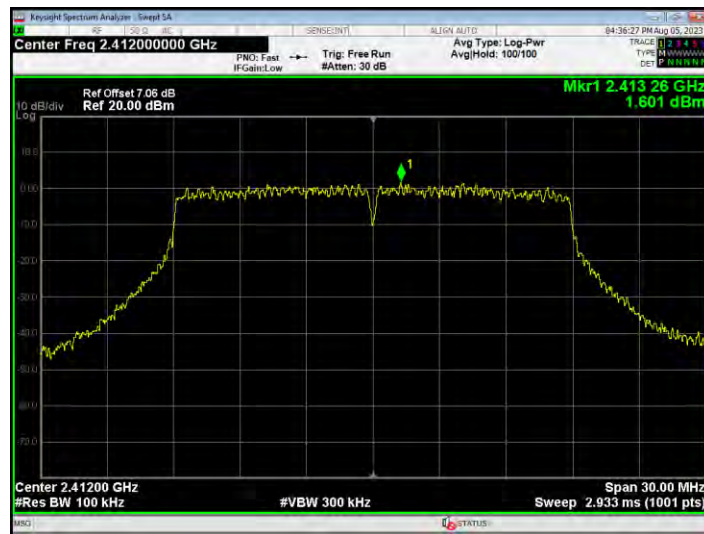
Tx. Spurious NVNT g 2462MHz Ant1 Ref



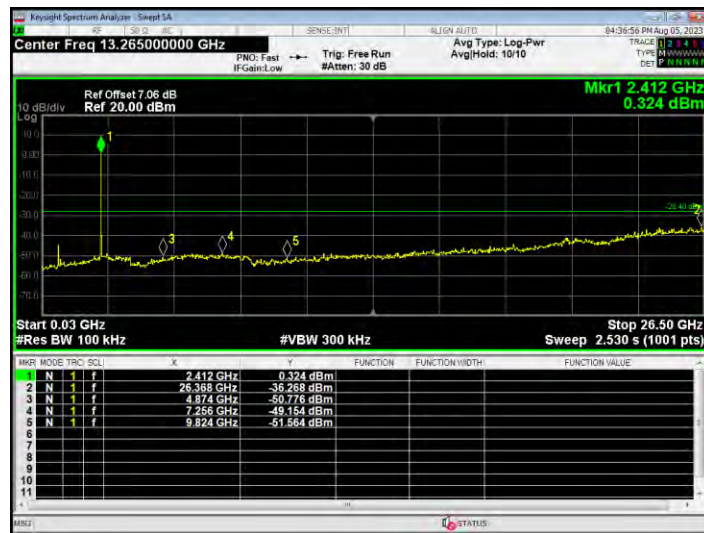
Tx. Spurious NVNT g 2462MHz Ant1 Emission



Tx. Spurious NVNT n20 2412MHz Ant1 Ref



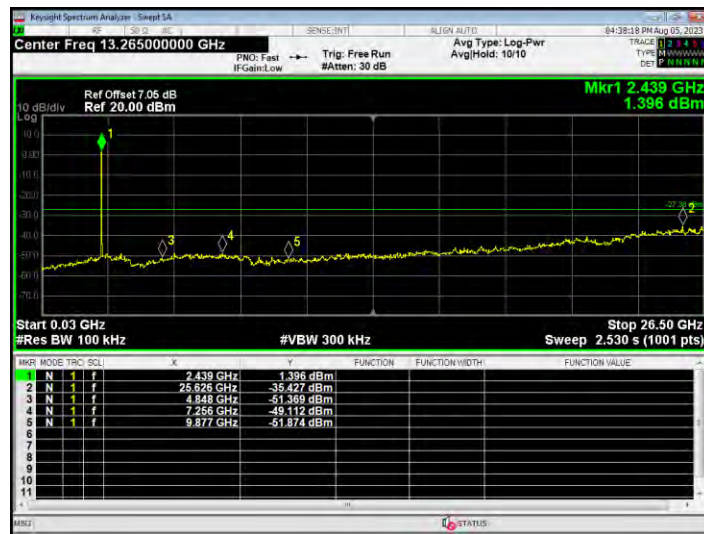
Tx. Spurious NVNT n20 2412MHz Ant1 Emission



Tx. Spurious NVNT n20 2437MHz Ant1 Ref



Tx. Spurious NVNT n20 2437MHz Ant1 Emission



Tx. Spurious NVNT n20 2462MHz Ant1 Ref



Tx. Spurious NVNT n20 2462MHz Ant1 Emission

