

ANNEX 1

FCC Part 15C Test Report

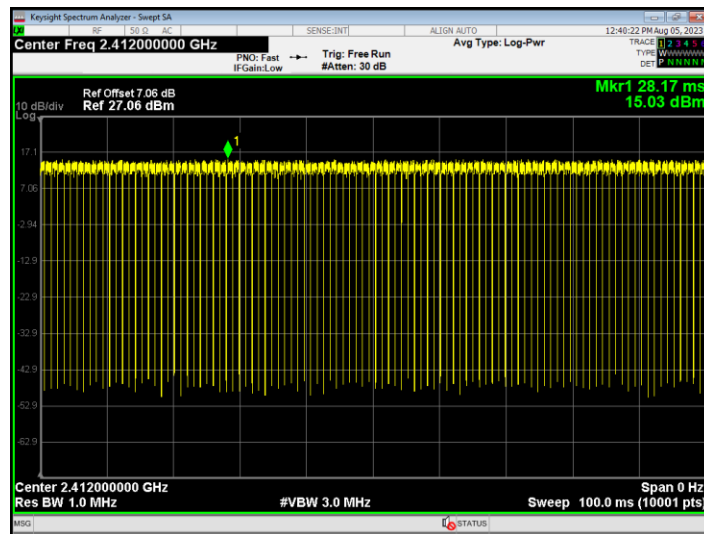
FCC ID: 2BCCW-PF4LV100

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:	PF4LV100
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

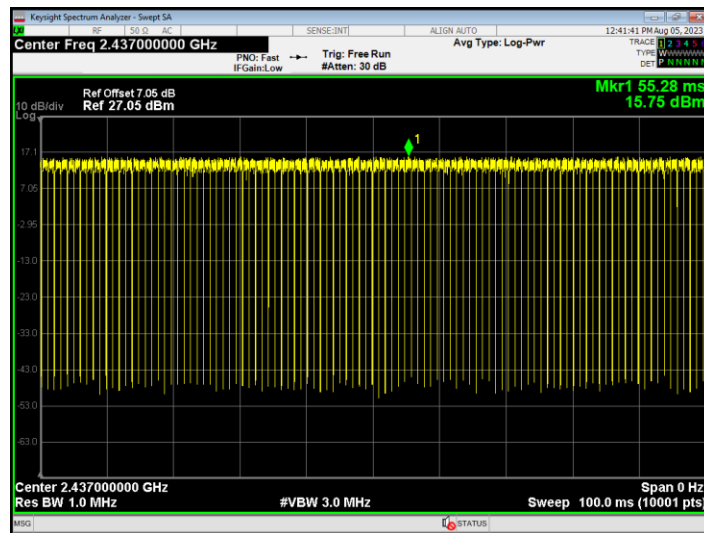
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	b	2412	Ant1	97.31	0.12
NVNT	b	2437	Ant1	97.28	0.12
NVNT	b	2462	Ant1	97.28	0.12
NVNT	g	2412	Ant1	85.2	0.7
NVNT	g	2437	Ant1	85.33	0.69
NVNT	g	2462	Ant1	85.37	0.69
NVNT	n20	2412	Ant1	97.56	0.11
NVNT	n20	2437	Ant1	97.61	0.11
NVNT	n20	2462	Ant1	97.59	0.11

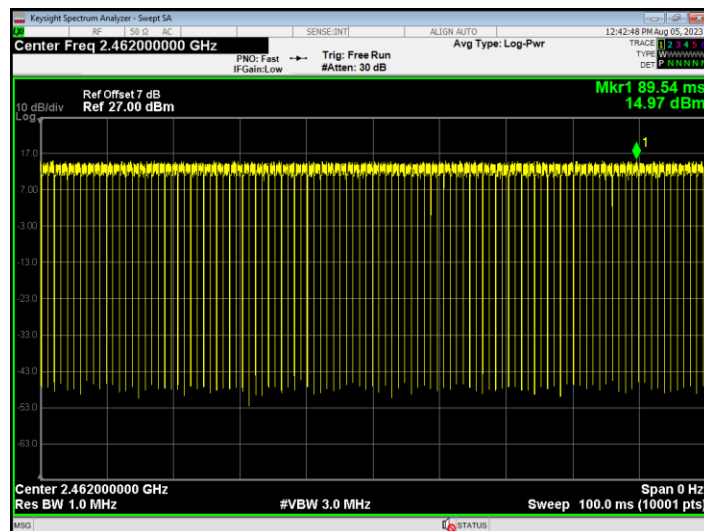
Duty Cycle NVNT b 2412MHz Ant1



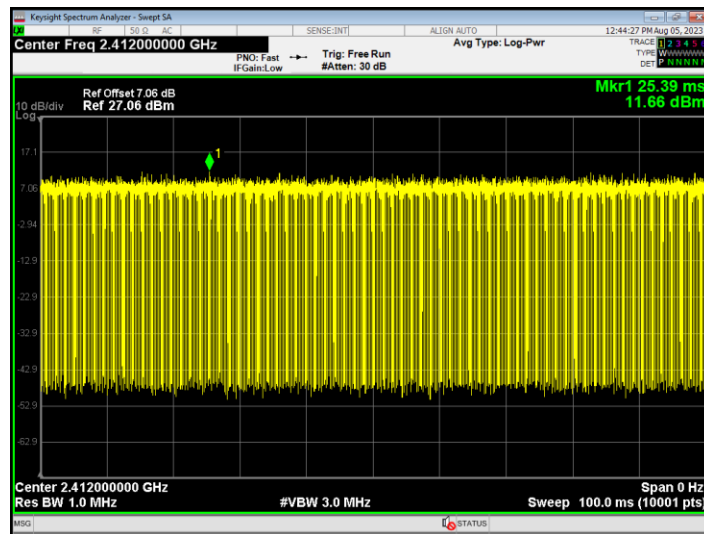
Duty Cycle NVNT b 2437MHz Ant1



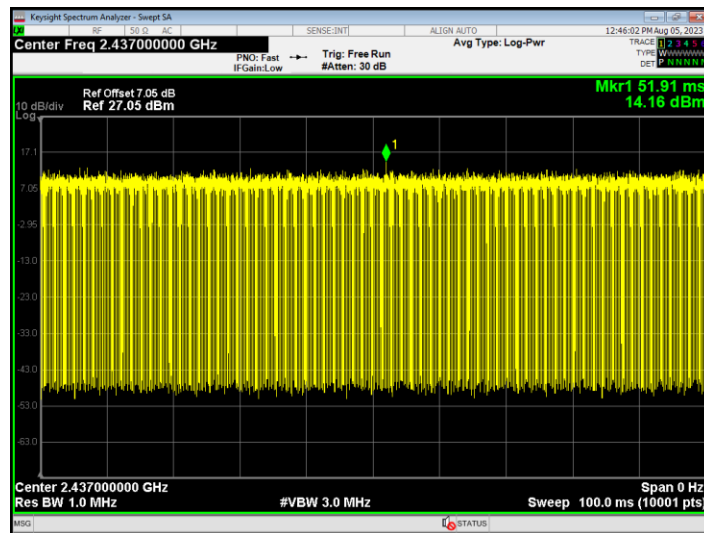
Duty Cycle NVNT b 2462MHz Ant1



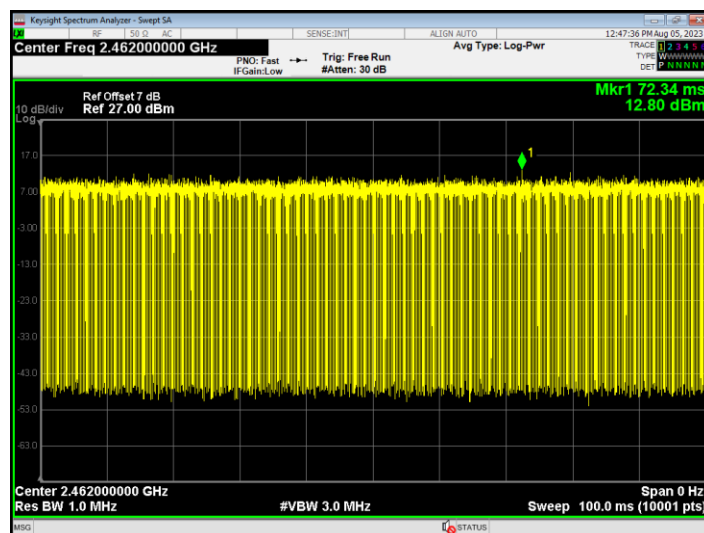
Duty Cycle NVNT g 2412MHz Ant1



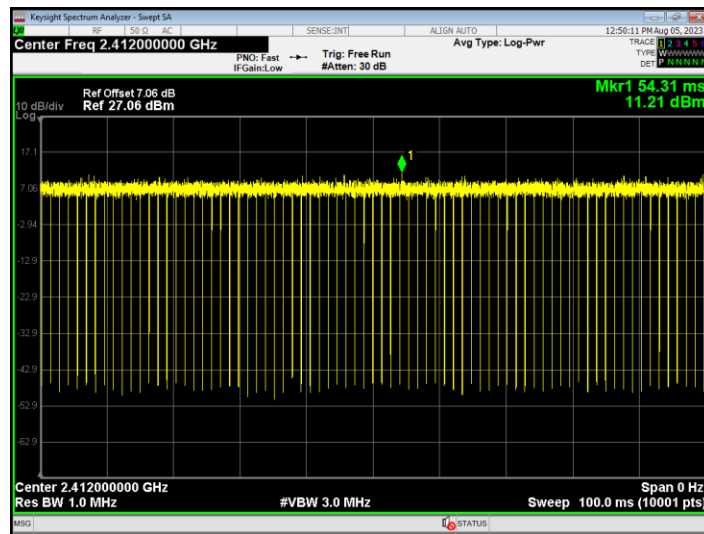
Duty Cycle NVNT g 2437MHz Ant1



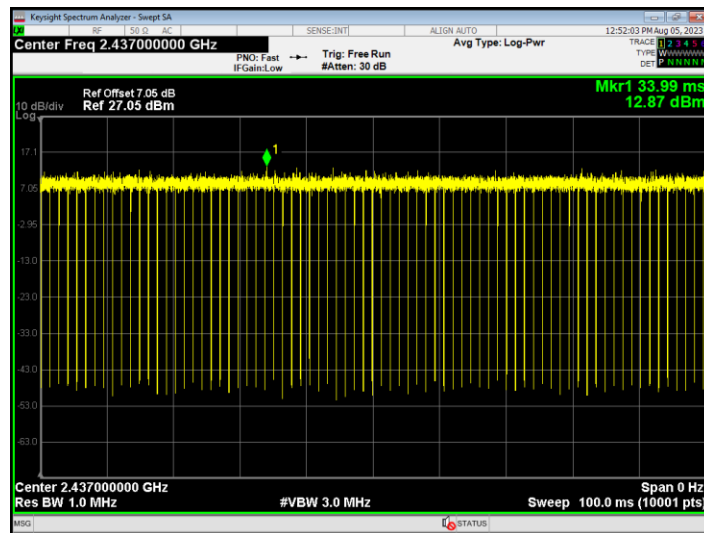
Duty Cycle NVNT g 2462MHz Ant1



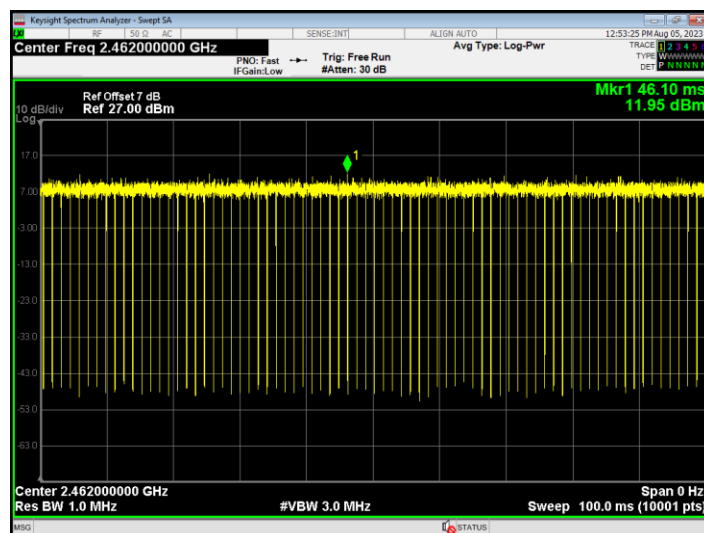
Duty Cycle NVNT n20 2412MHz Ant1



Duty Cycle NVNT n20 2437MHz Ant1



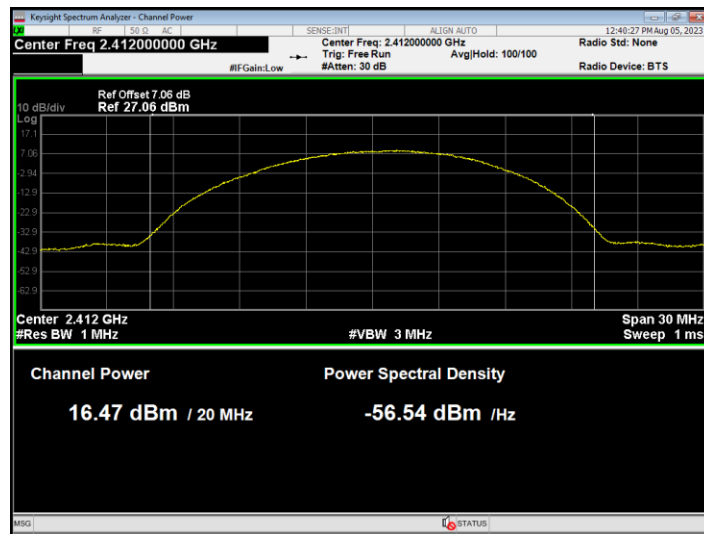
Duty Cycle NVNT n20 2462MHz Ant1



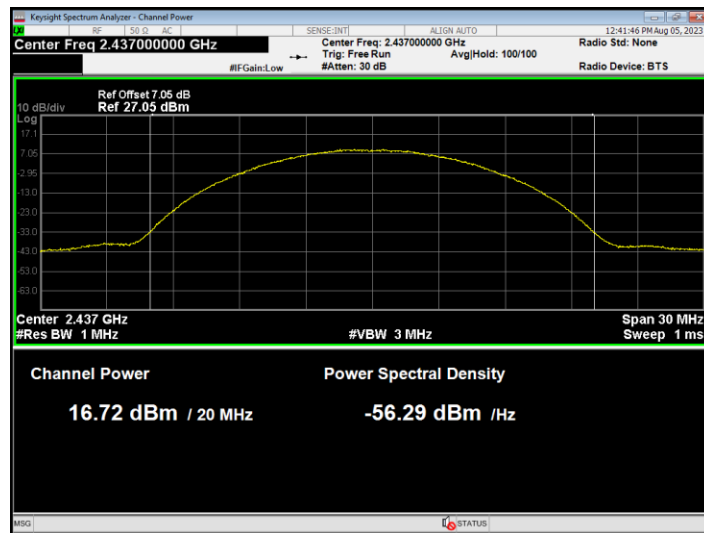
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	16.468	0.12	16.588	30	Pass
NVNT	b	2437	Ant1	16.722	0.12	16.842	30	Pass
NVNT	b	2462	Ant1	15.882	0.12	16.002	30	Pass
NVNT	g	2412	Ant1	13.277	0.7	13.977	30	Pass
NVNT	g	2437	Ant1	13.525	0.69	14.215	30	Pass
NVNT	g	2462	Ant1	12.616	0.69	13.306	30	Pass
NVNT	n20	2412	Ant1	14.147	0.11	14.257	30	Pass
NVNT	n20	2437	Ant1	14.526	0.11	14.636	30	Pass
NVNT	n20	2462	Ant1	13.48	0.11	13.59	30	Pass

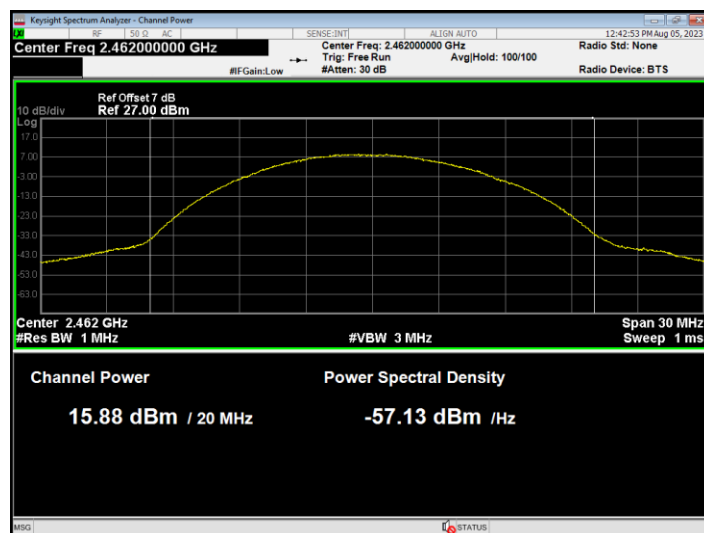
Power NVNT b 2412MHz Ant1



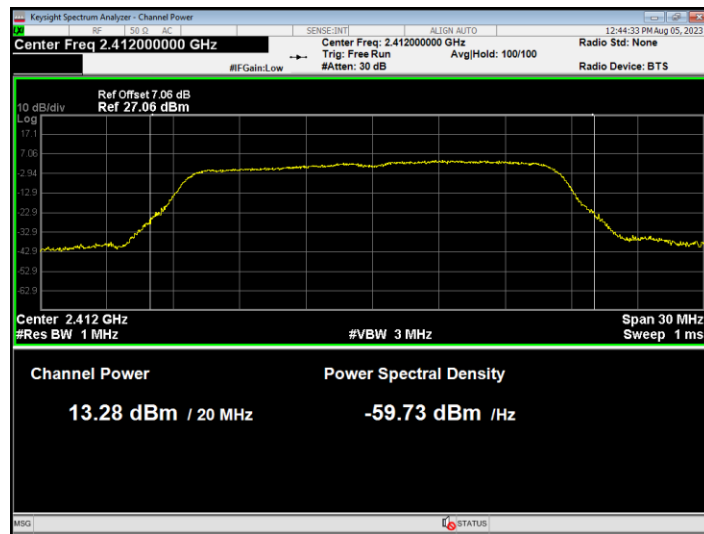
Power NVNT b 2437MHz Ant1



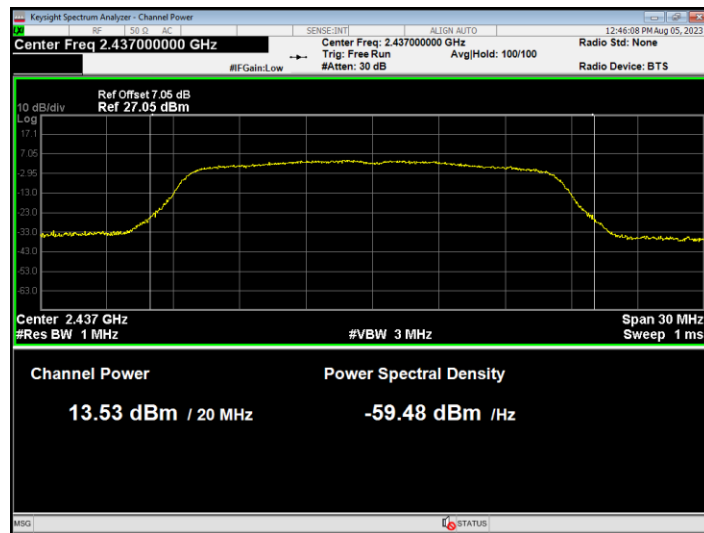
Power NVNT b 2462MHz Ant1



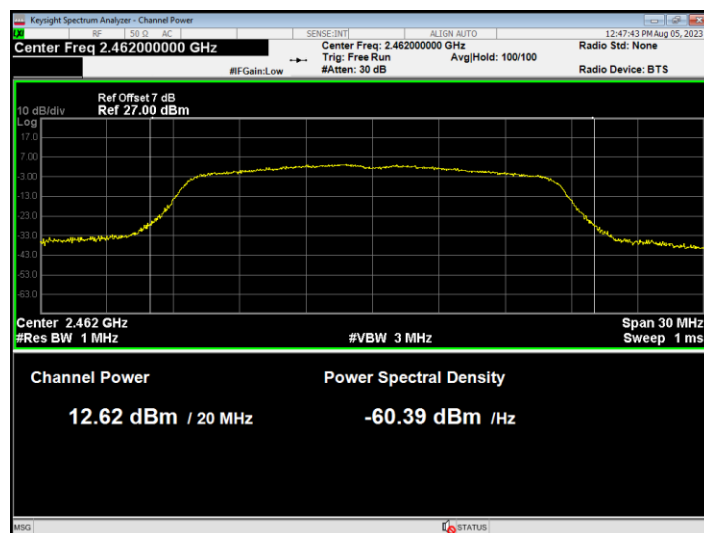
Power NVNT g 2412MHz Ant1



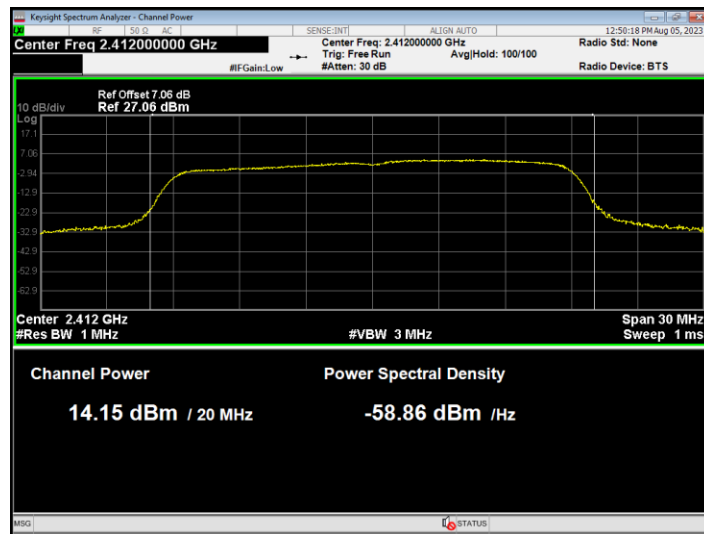
Power NVNT g 2437MHz Ant1



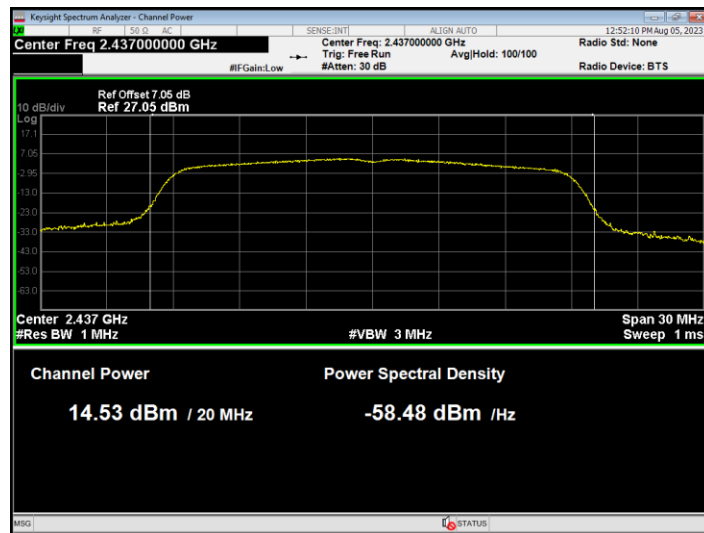
Power NVNT g 2462MHz Ant1



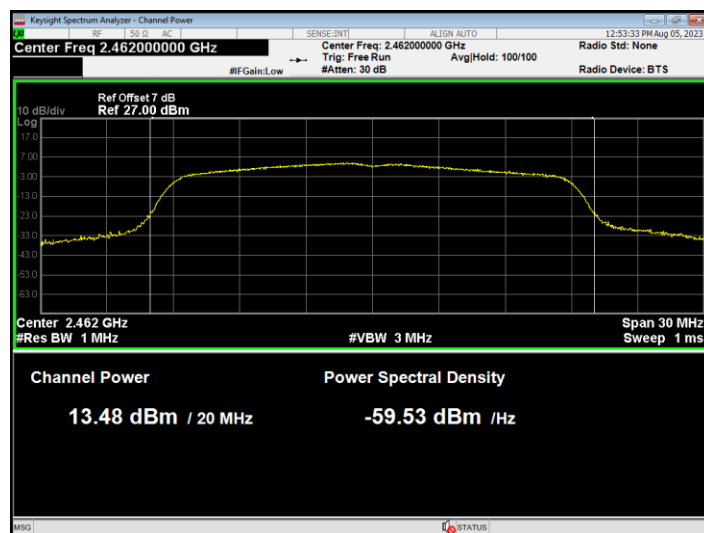
Power NVNT n20 2412MHz Ant1



Power NVNT n20 2437MHz Ant1



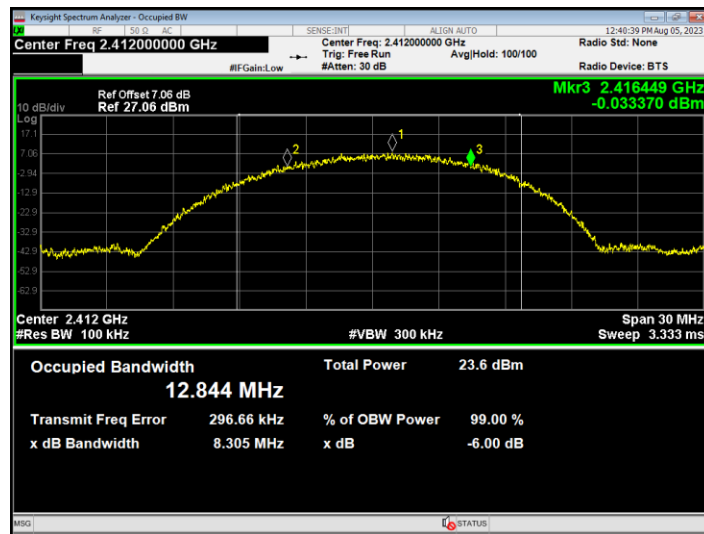
Power NVNT n20 2462MHz Ant1



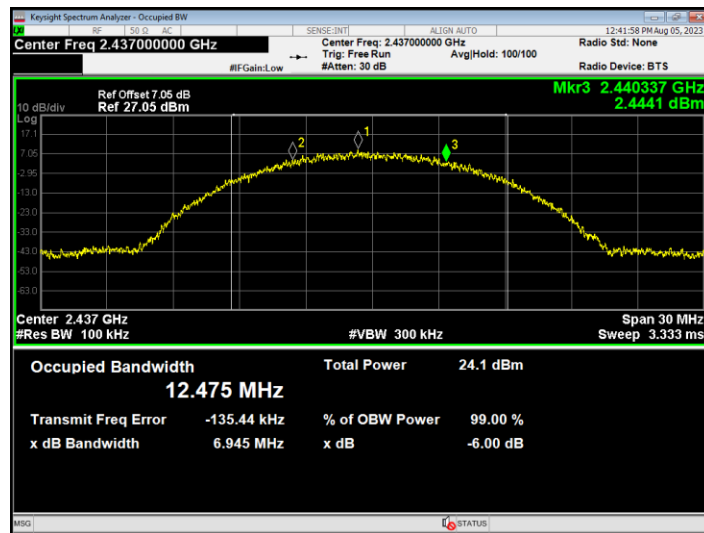
-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.305	0.5	Pass
NVNT	b	2437	Ant1	6.945	0.5	Pass
NVNT	b	2462	Ant1	7.036	0.5	Pass
NVNT	g	2412	Ant1	15.651	0.5	Pass
NVNT	g	2437	Ant1	15.097	0.5	Pass
NVNT	g	2462	Ant1	15.058	0.5	Pass
NVNT	n20	2412	Ant1	11.369	0.5	Pass
NVNT	n20	2437	Ant1	13.801	0.5	Pass
NVNT	n20	2462	Ant1	13.783	0.5	Pass

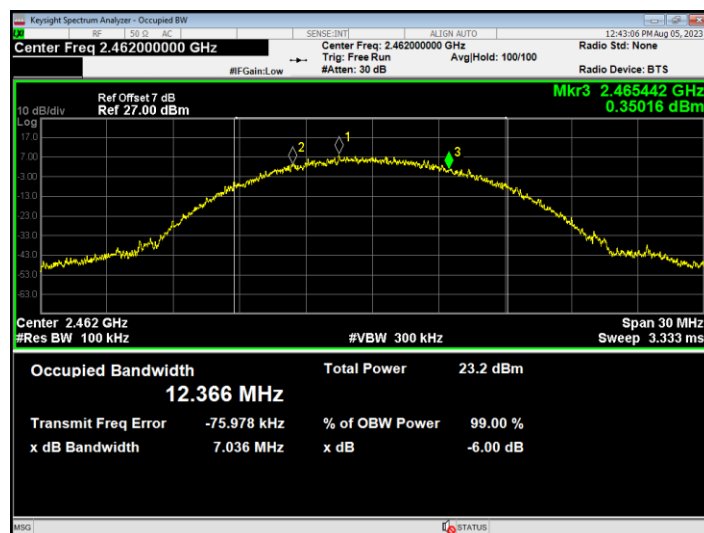
-6dB Bandwidth NVNT b 2412MHz Ant1



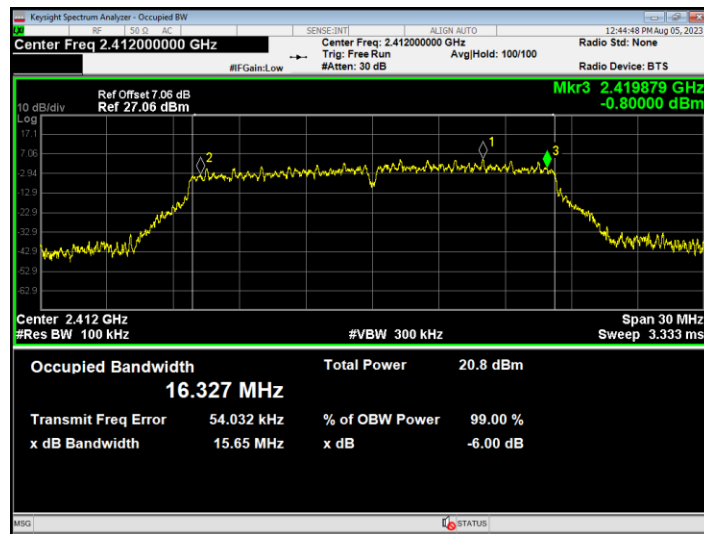
-6dB Bandwidth NVNT b 2437MHz Ant1



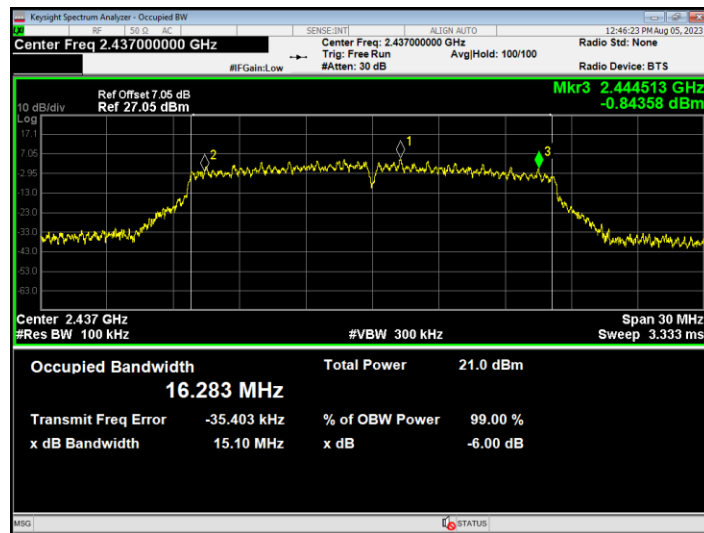
-6dB Bandwidth NVNT b 2462MHz Ant1



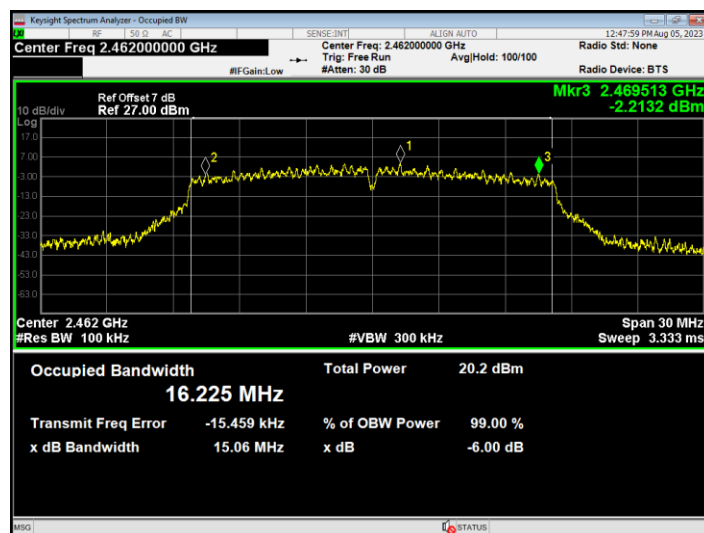
-6dB Bandwidth NVNT g 2412MHz Ant1



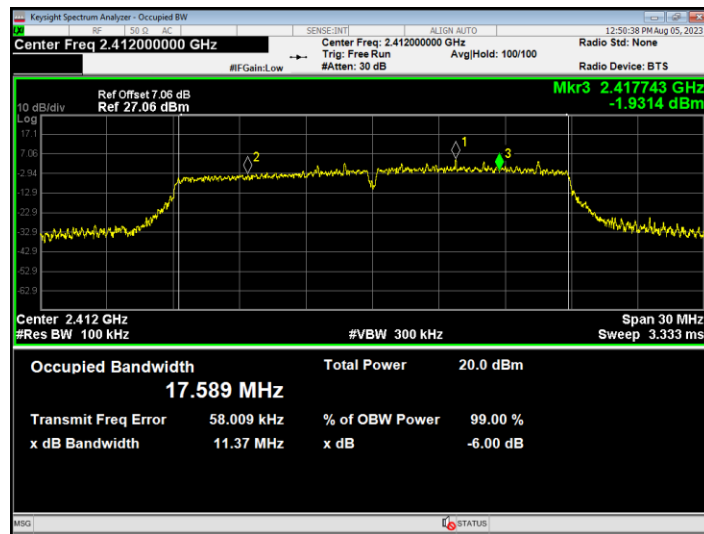
-6dB Bandwidth NVNT g 2437MHz Ant1



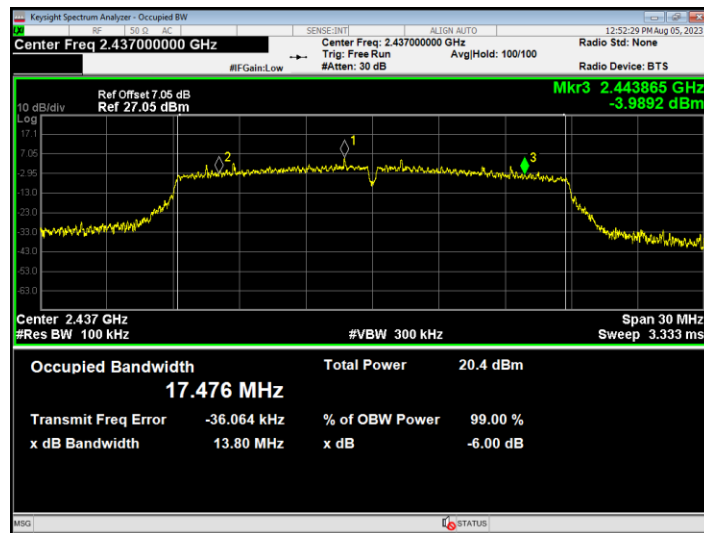
-6dB Bandwidth NVNT g 2462MHz Ant1



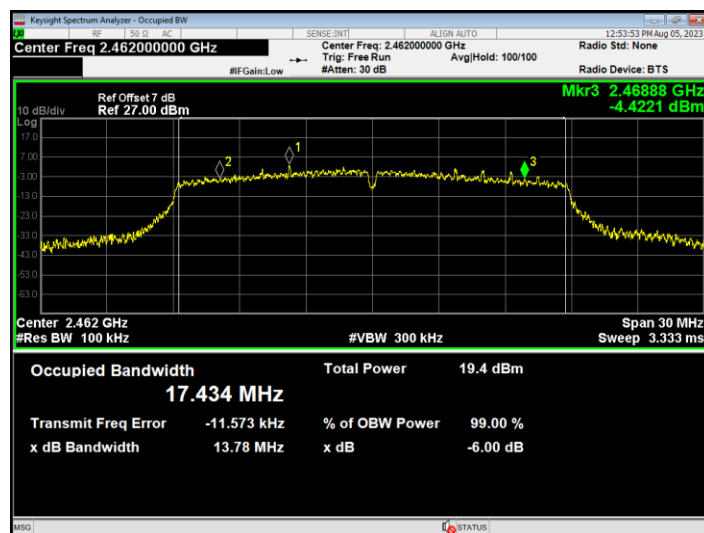
-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1



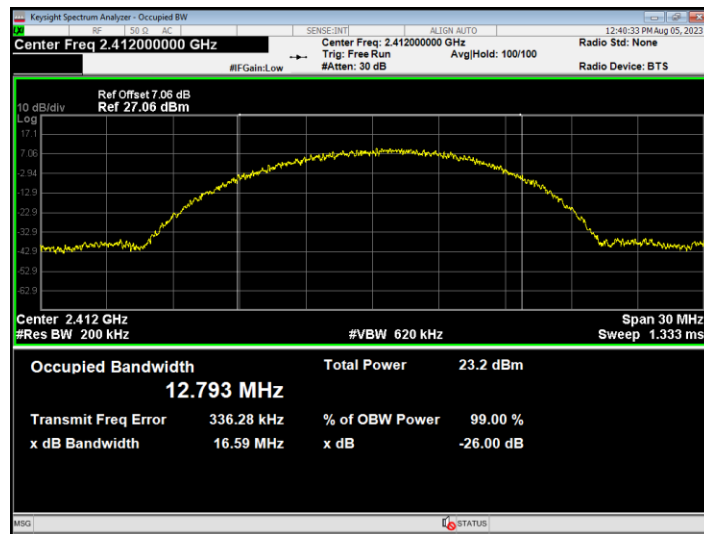
-6dB Bandwidth NVNT n20 2462MHz Ant1



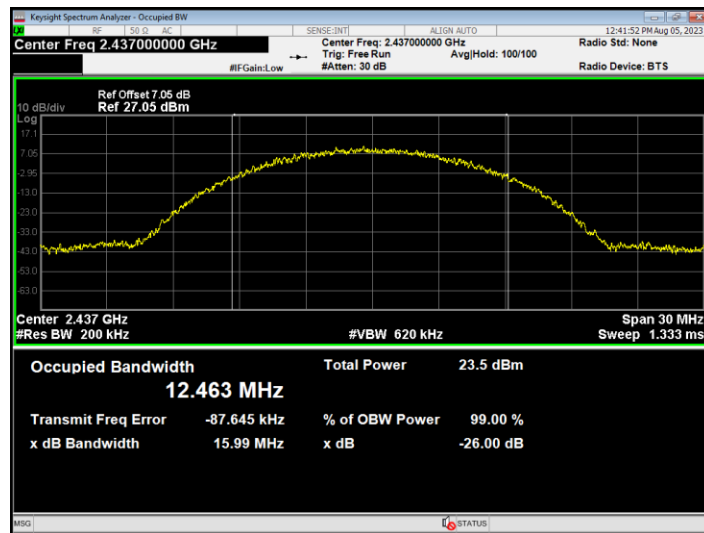
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	12.79311991
NVNT	b	2437	Ant1	12.46339449
NVNT	b	2462	Ant1	12.36432992
NVNT	g	2412	Ant1	16.40941123
NVNT	g	2437	Ant1	16.29081878
NVNT	g	2462	Ant1	16.25347413
NVNT	n20	2412	Ant1	17.62509987
NVNT	n20	2437	Ant1	17.47801829
NVNT	n20	2462	Ant1	17.39055372

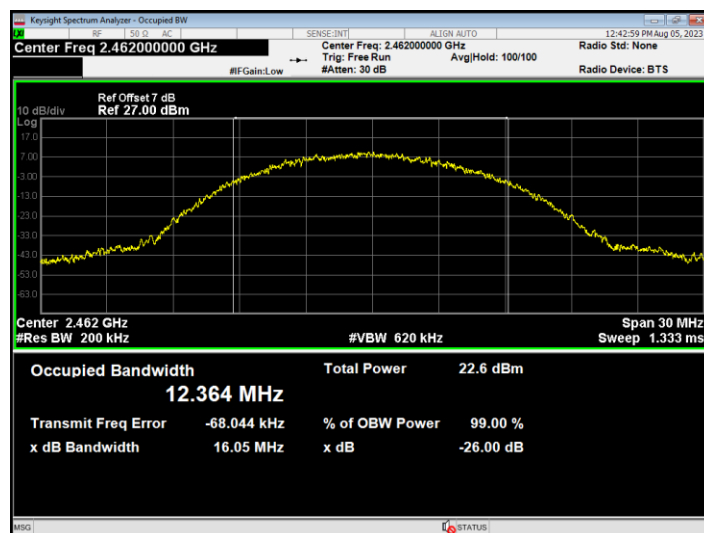
OBW NVNT b 2412MHz Ant1



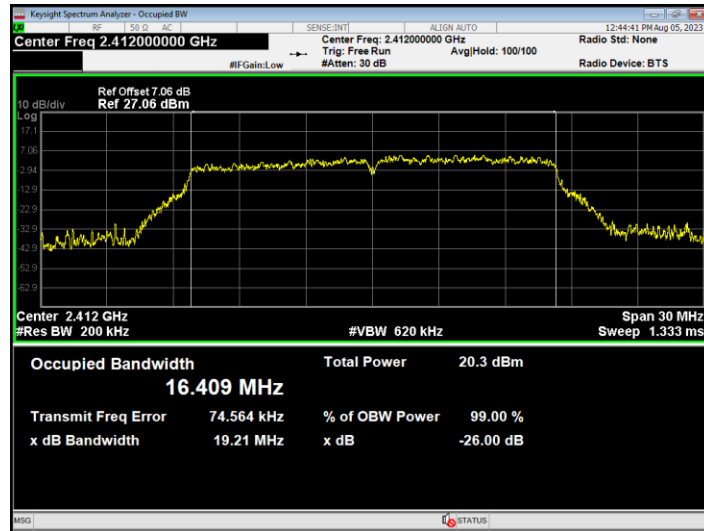
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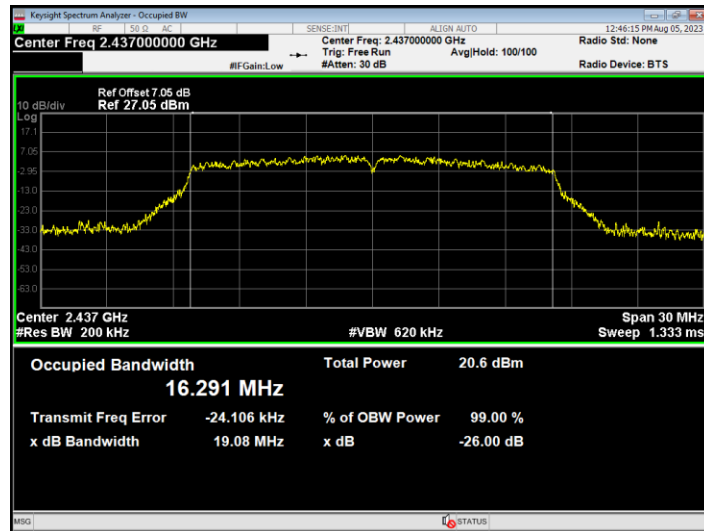
OBW NVNT b 2462MHz Ant1



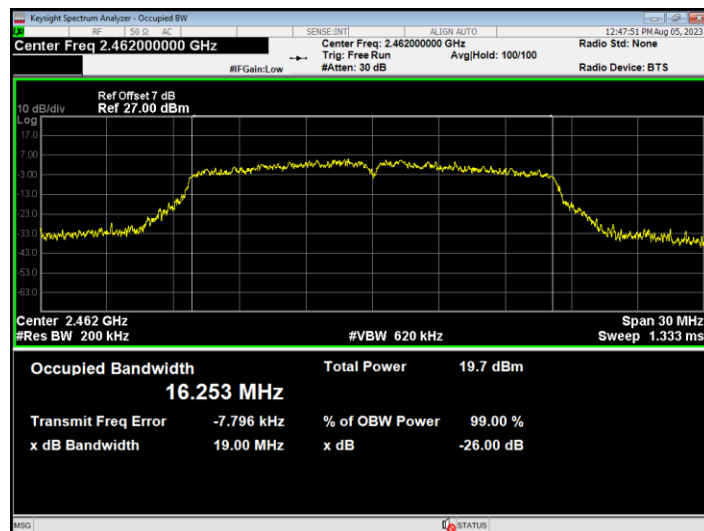
OBW NVNT g 2412MHz Ant1



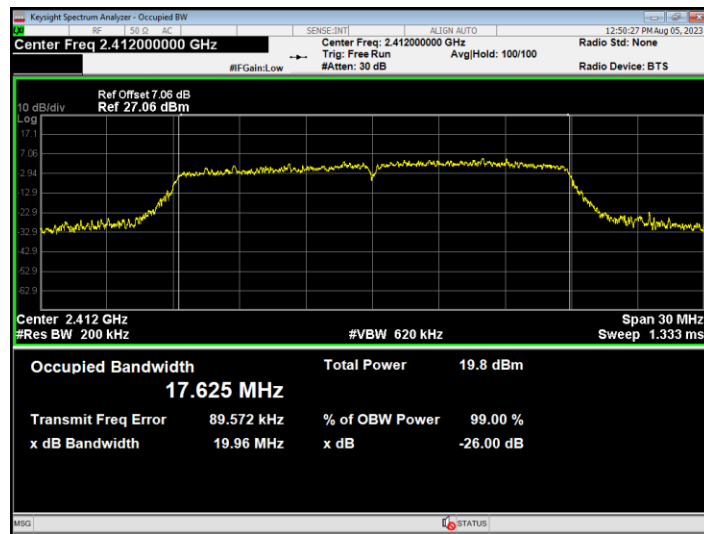
OBW NVNT g 2437MHz Ant1



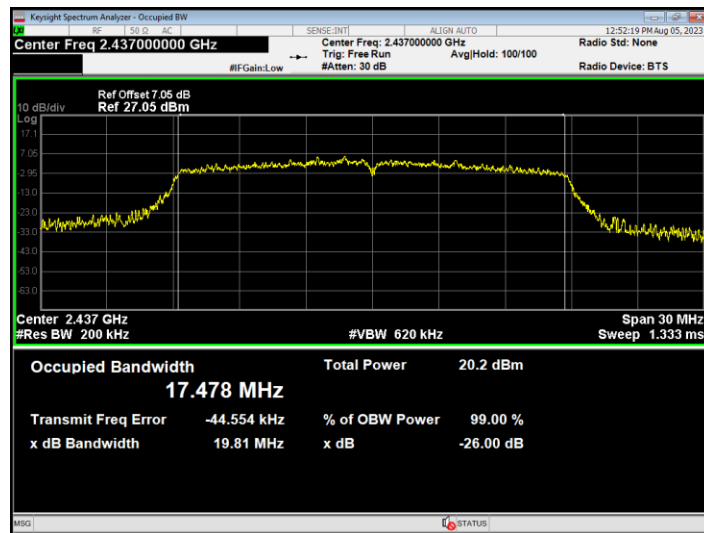
OBW NVNT g 2462MHz Ant1



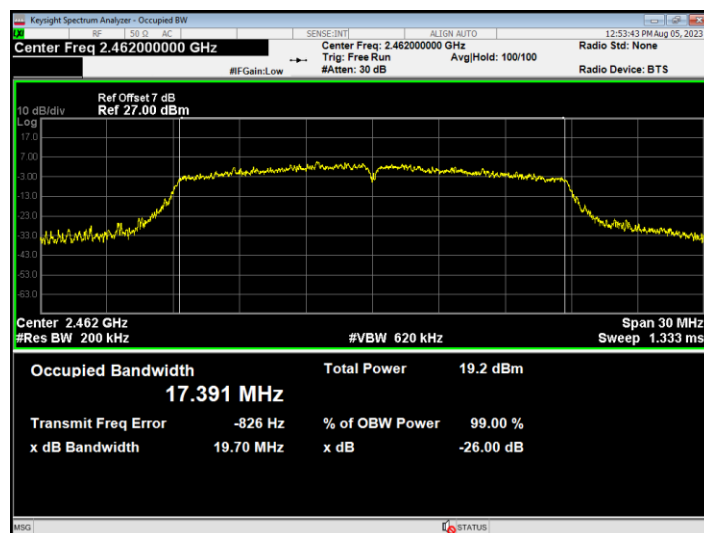
OBW NVNT n20 2412MHz Ant1



OBW NVNT n20 2437MHz Ant1



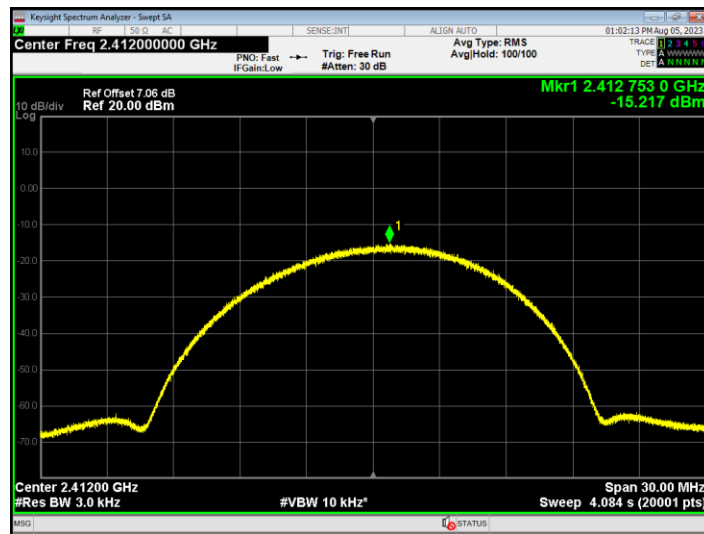
OBW NVNT n20 2462MHz Ant1



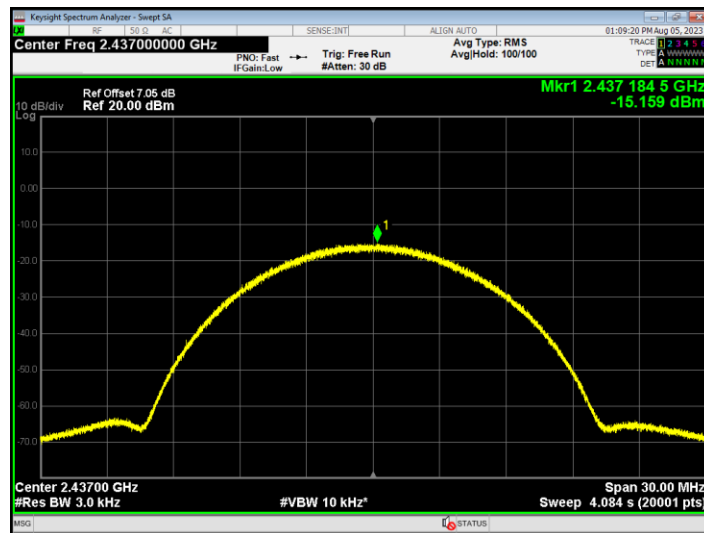
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Correction Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-15.217	0.12	-15.22	8	Pass
NVNT	b	2437	Ant1	-15.159	0.12	-15.16	8	Pass
NVNT	b	2462	Ant1	-16.199	0.12	-16.20	8	Pass
NVNT	g	2412	Ant1	-19.591	0.7	-19.59	8	Pass
NVNT	g	2437	Ant1	-19.093	0.69	-19.09	8	Pass
NVNT	g	2462	Ant1	-19.496	0.69	-19.50	8	Pass
NVNT	n20	2412	Ant1	-19.074	0.11	-19.07	8	Pass
NVNT	n20	2437	Ant1	-19.15	0.11	-19.15	8	Pass
NVNT	n20	2462	Ant1	-19.474	0.11	-19.47	8	Pass

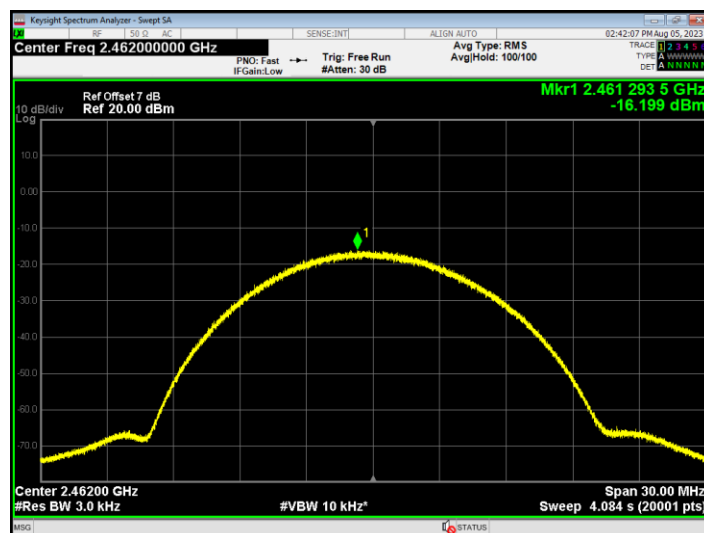
PSD NVNT b 2412MHz Ant1



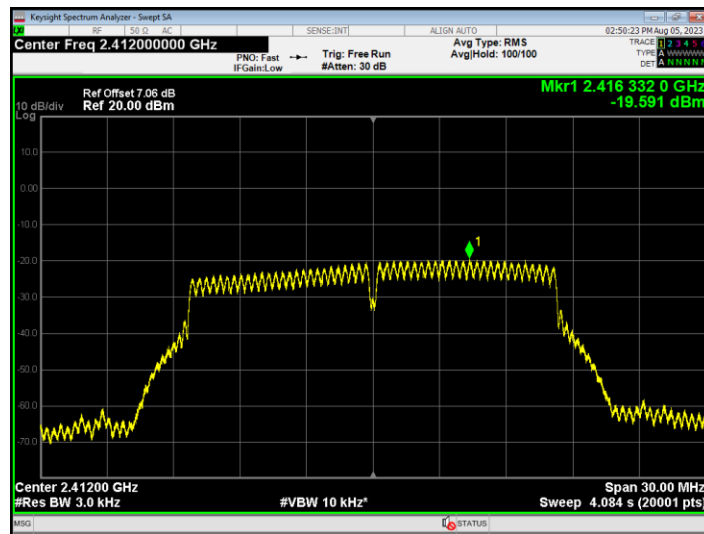
PSD NVNT b 2437MHz Ant1



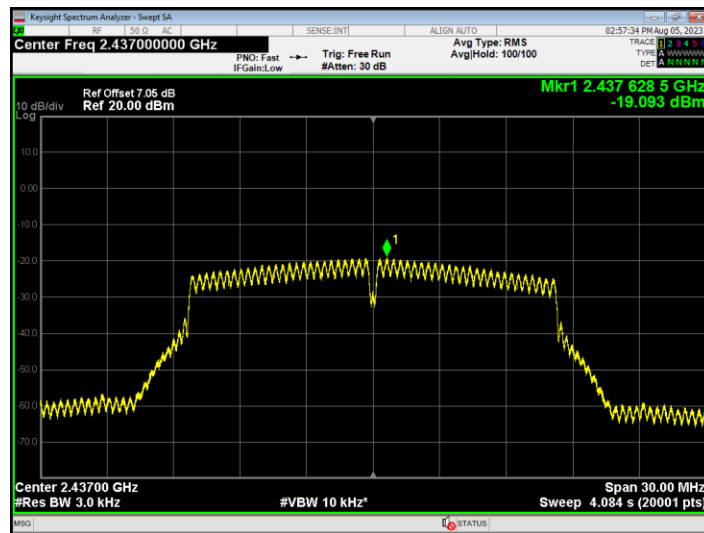
PSD NVNT b 2462MHz Ant1



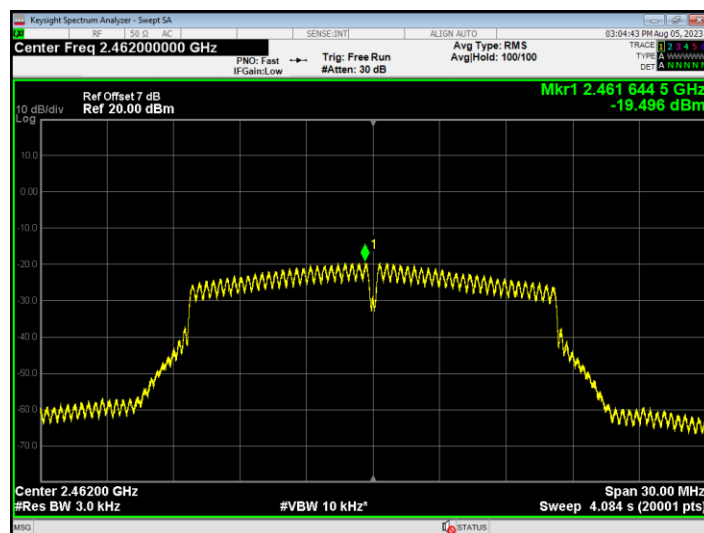
PSD NVNT g 2412MHz Ant1



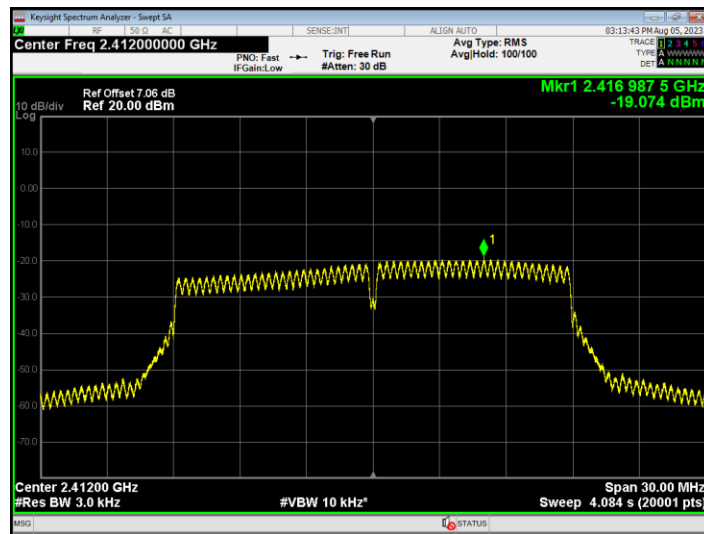
PSD NVNT g 2437MHz Ant1



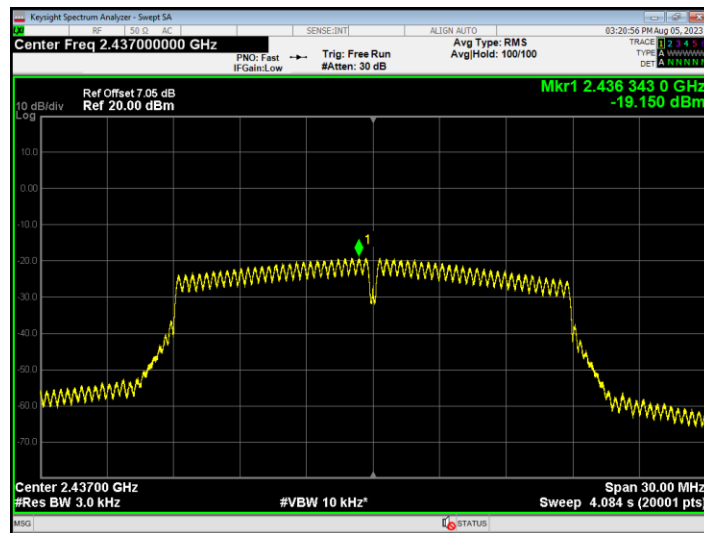
PSD NVNT g 2462MHz Ant1



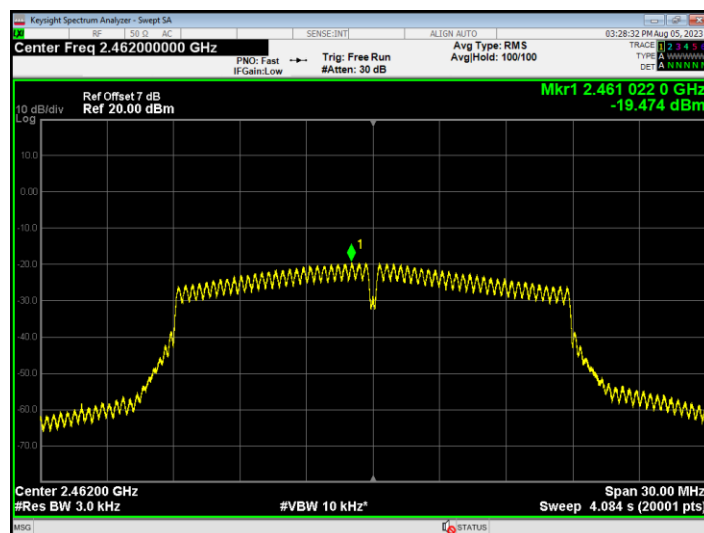
PSD NVNT n20 2412MHz Ant1



PSD NVNT n20 2437MHz Ant1



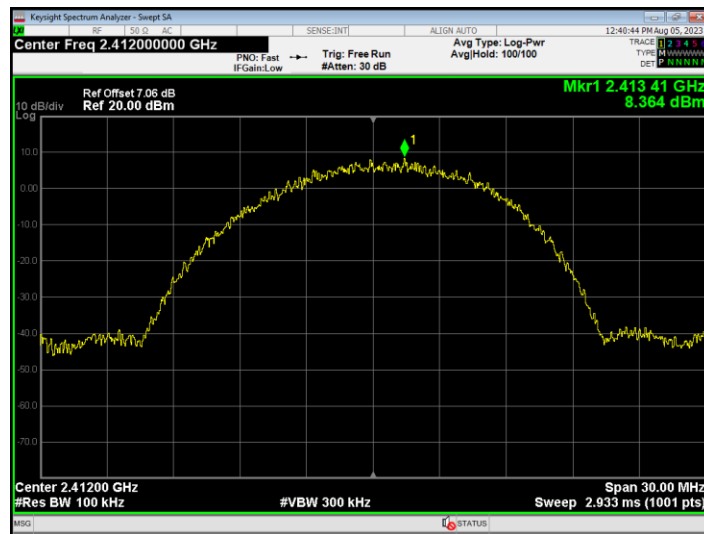
PSD NVNT n20 2462MHz Ant1



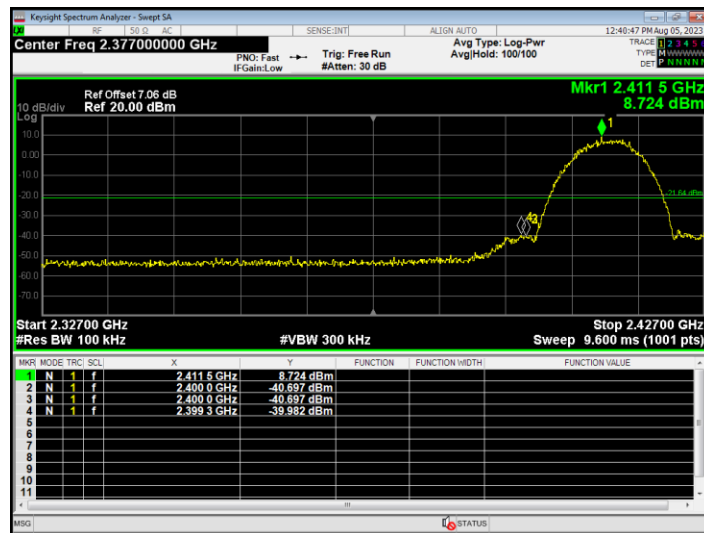
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-48.34	-30	Pass
NVNT	b	2462	Ant1	-58.26	-30	Pass
NVNT	g	2412	Ant1	-40.97	-30	Pass
NVNT	g	2462	Ant1	-54.61	-30	Pass
NVNT	n20	2412	Ant1	-34.28	-30	Pass
NVNT	n20	2462	Ant1	-53.64	-30	Pass

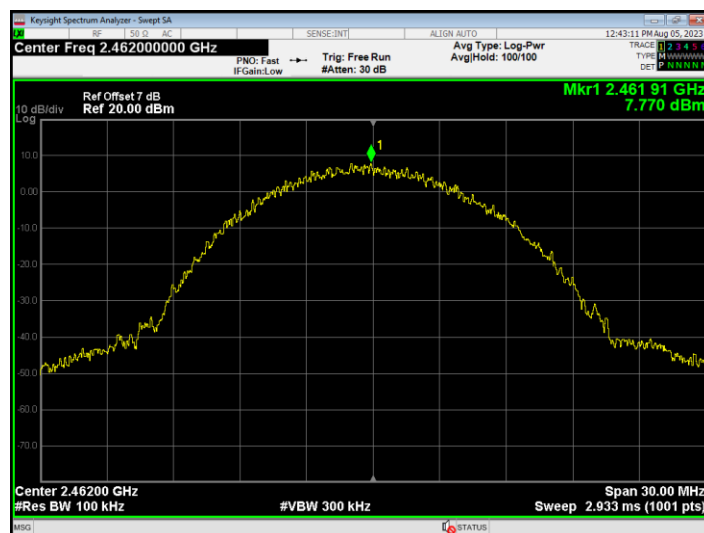
Band Edge NVNT b 2412MHz Ant1 Ref



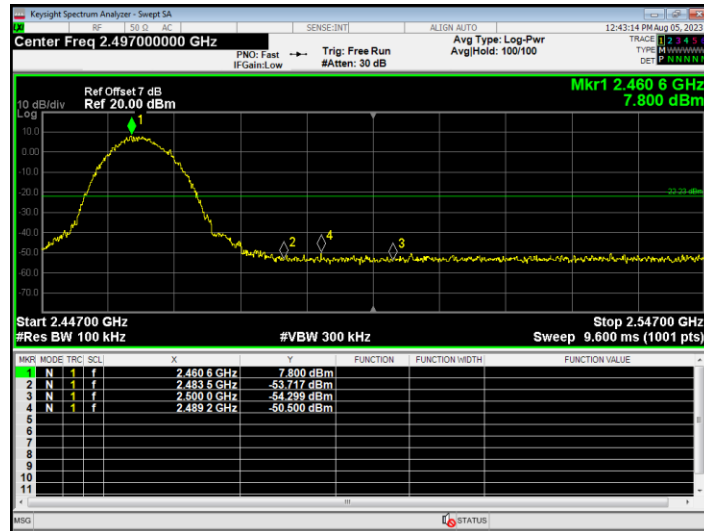
Band Edge NVNT b 2412MHz Ant1 Emission



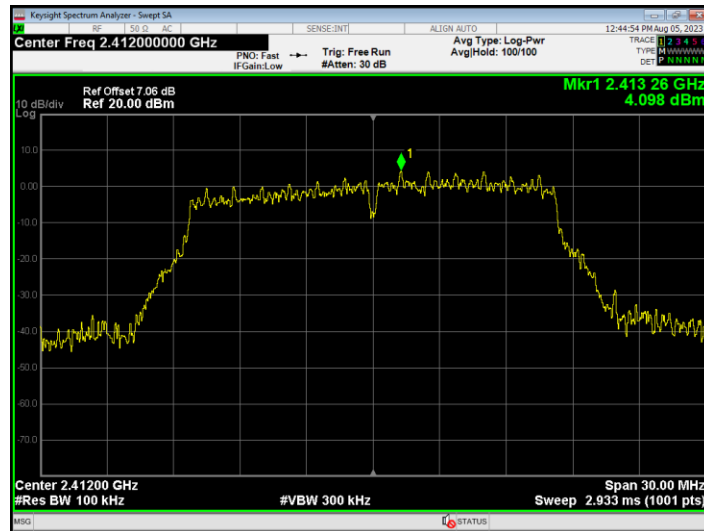
Band Edge NVNT b 2462MHz Ant1 Ref



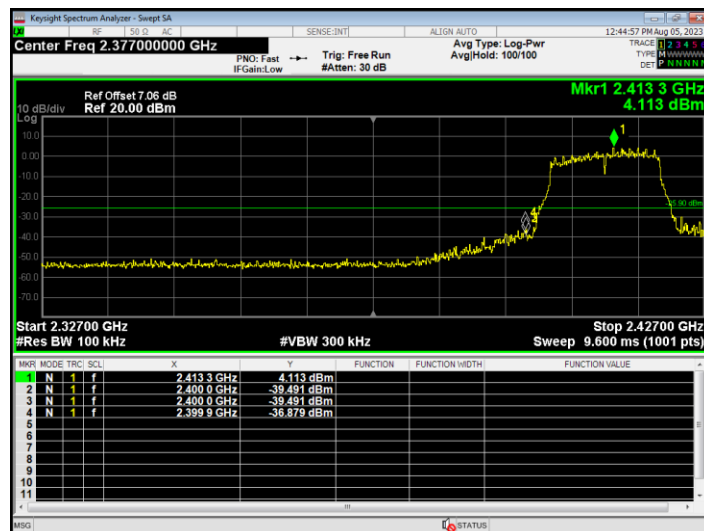
Band Edge NVNT b 2462MHz Ant1 Emission



Band Edge NVNT g 2412MHz Ant1 Ref



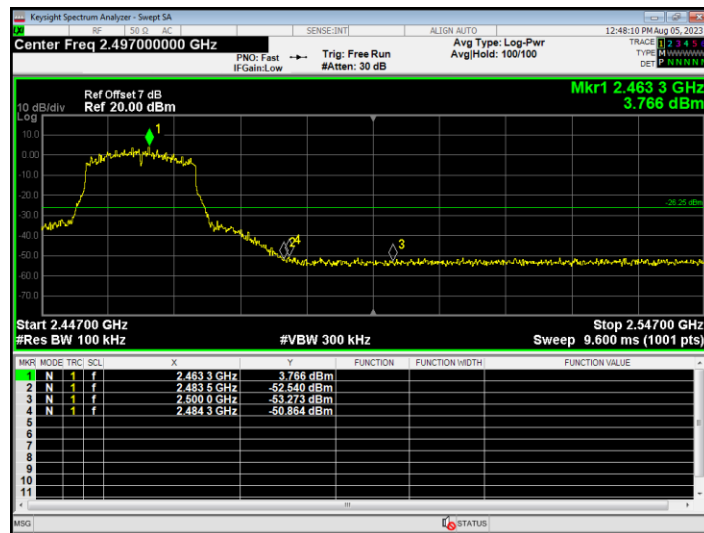
Band Edge NVNT g 2412MHz Ant1 Emission



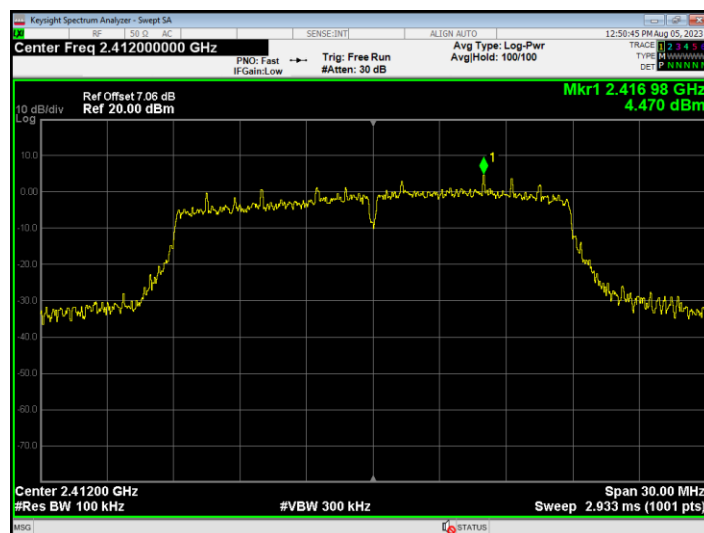
Band Edge NVNT g 2462MHz Ant1 Ref



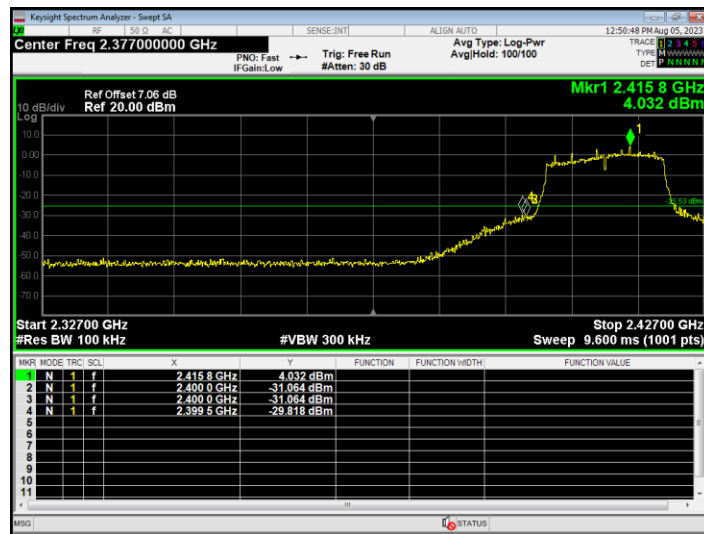
Band Edge NVNT g 2462MHz Ant1 Emission



Band Edge NVNT n20 2412MHz Ant1 Ref



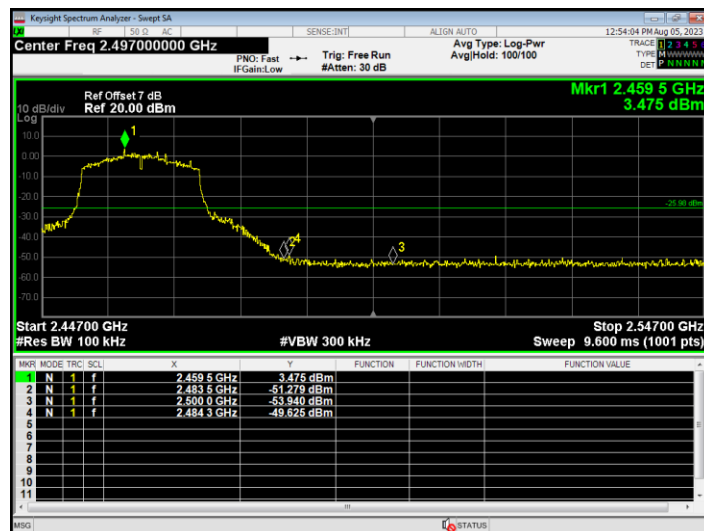
Band Edge NVNT n20 2412MHz Ant1 Emission



Band Edge NVNT n20 2462MHz Ant1 Ref



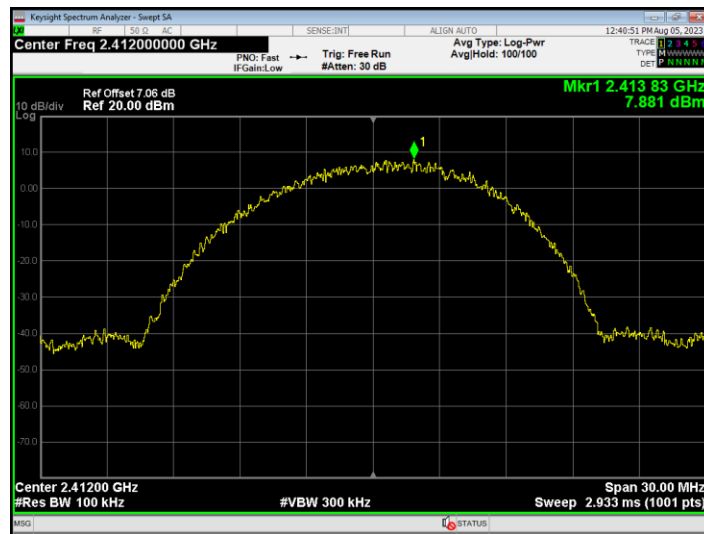
Band Edge NVNT n20 2462MHz Ant1 Emission



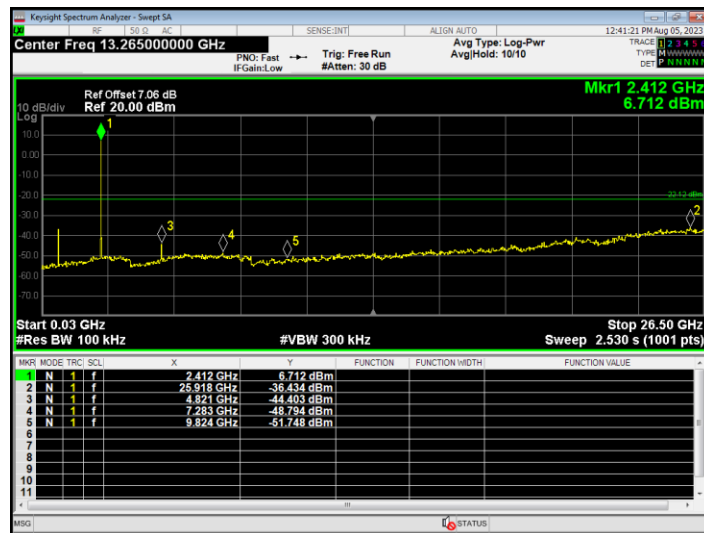
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-44.31	-30	Pass
NVNT	b	2437	Ant1	-45.02	-30	Pass
NVNT	b	2462	Ant1	-44.14	-30	Pass
NVNT	g	2412	Ant1	-39.82	-30	Pass
NVNT	g	2437	Ant1	-40.64	-30	Pass
NVNT	g	2462	Ant1	-39.06	-30	Pass
NVNT	n20	2412	Ant1	-39.85	-30	Pass
NVNT	n20	2437	Ant1	-39.89	-30	Pass
NVNT	n20	2462	Ant1	-40	-30	Pass

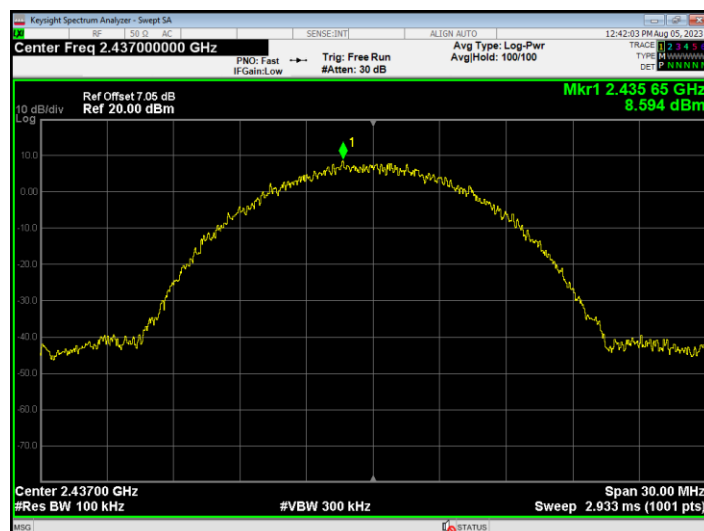
Tx. Spurious NVNT b 2412MHz Ant1 Ref



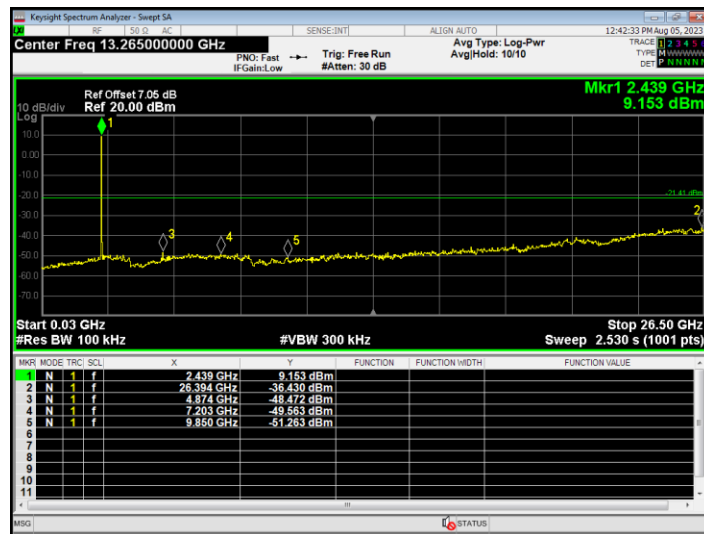
Tx. Spurious NVNT b 2412MHz Ant1 Emission



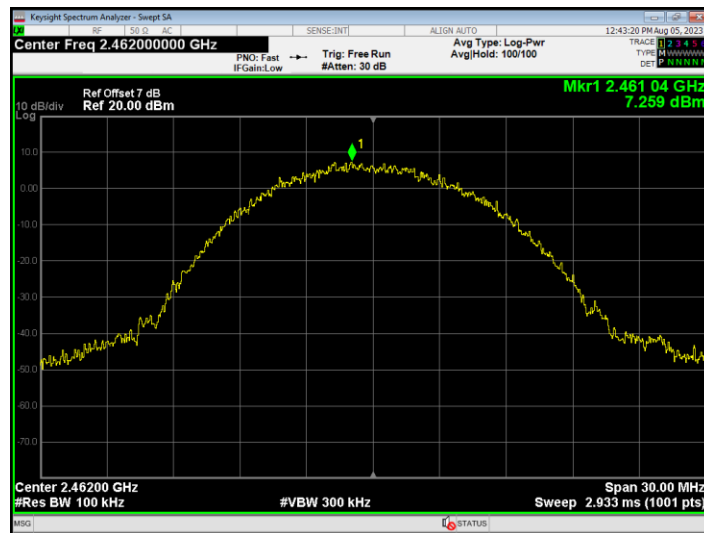
Tx. Spurious NVNT b 2437MHz Ant1 Ref



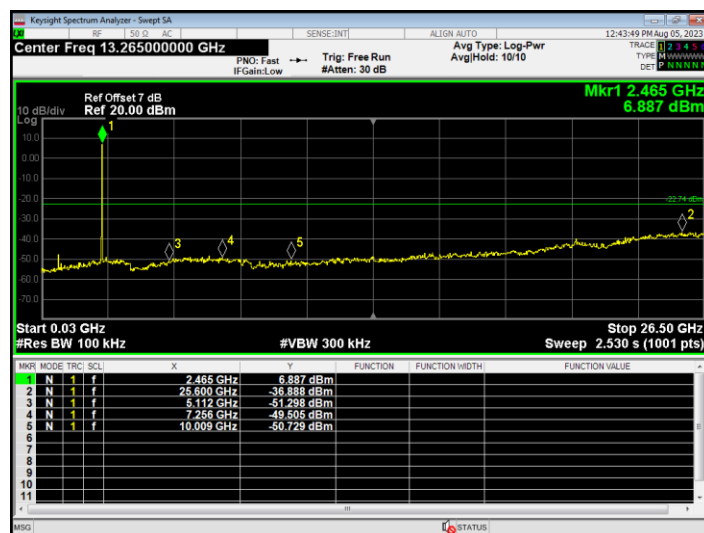
Tx. Spurious NVNT b 2437MHz Ant1 Emission



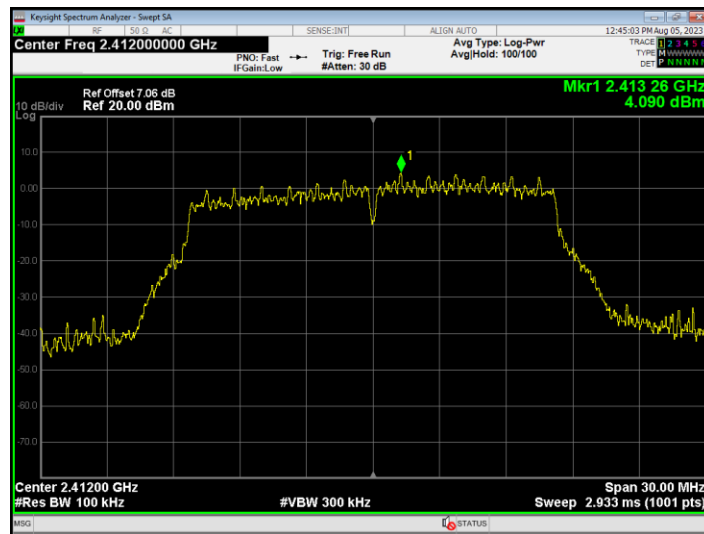
Tx. Spurious NVNT b 2462MHz Ant1 Ref



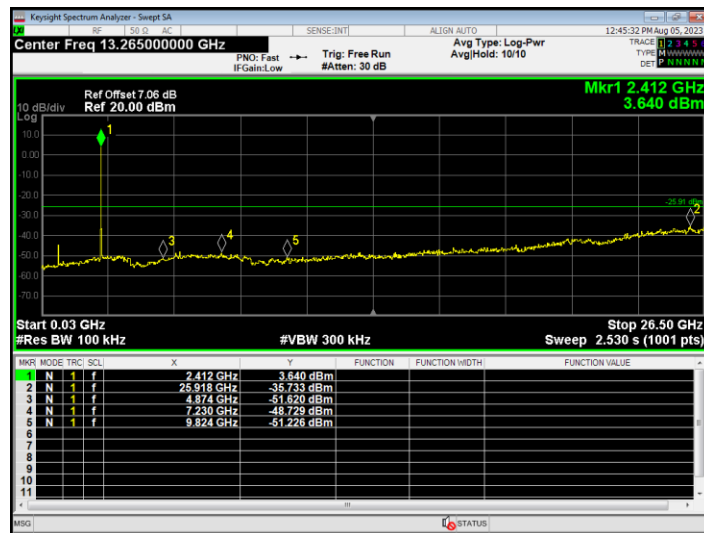
Tx. Spurious NVNT b 2462MHz Ant1 Emission



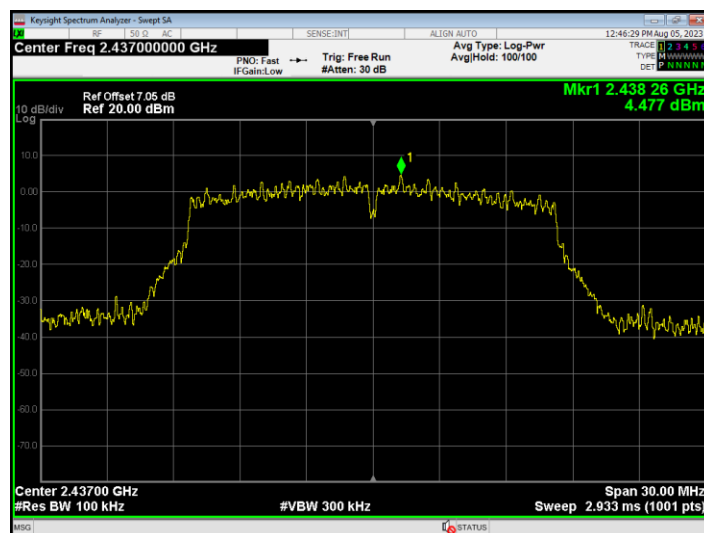
Tx. Spurious NVNT g 2412MHz Ant1 Ref



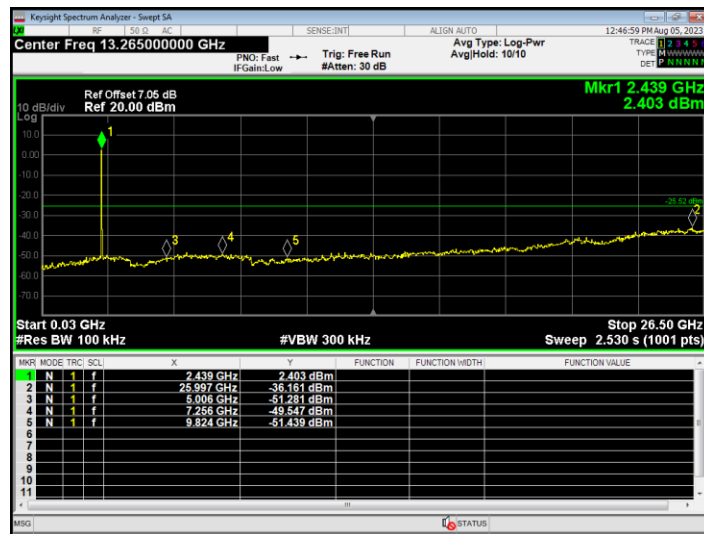
Tx. Spurious NVNT g 2412MHz Ant1 Emission



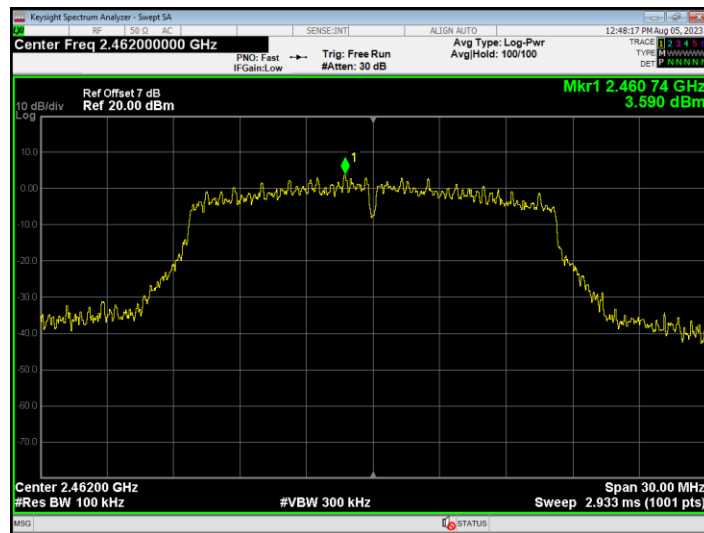
Tx. Spurious NVNT g 2437MHz Ant1 Ref



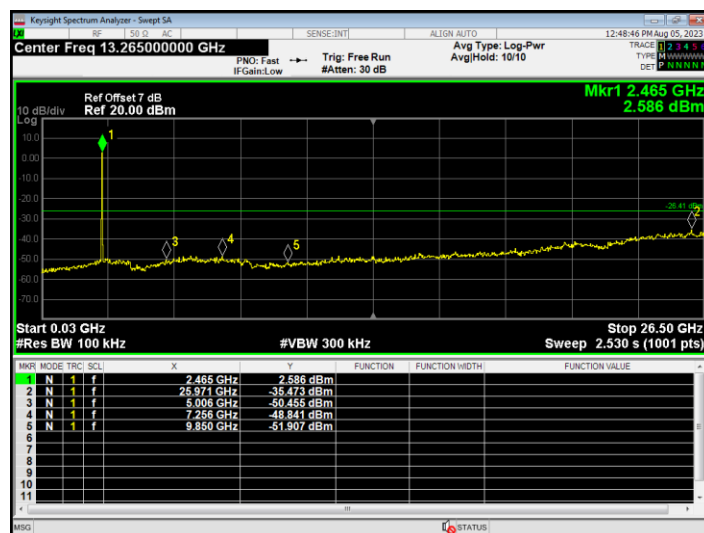
Tx. Spurious NVNT g 2437MHz Ant1 Emission



Tx. Spurious NVNT g 2462MHz Ant1 Ref



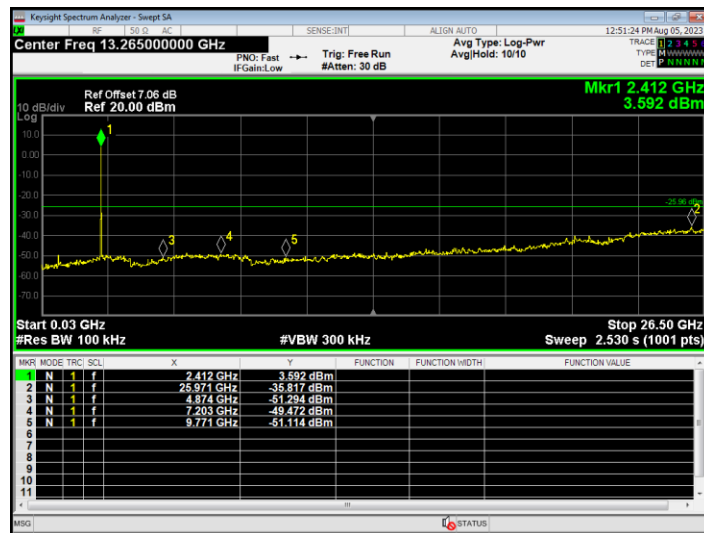
Tx. Spurious NVNT g 2462MHz Ant1 Emission



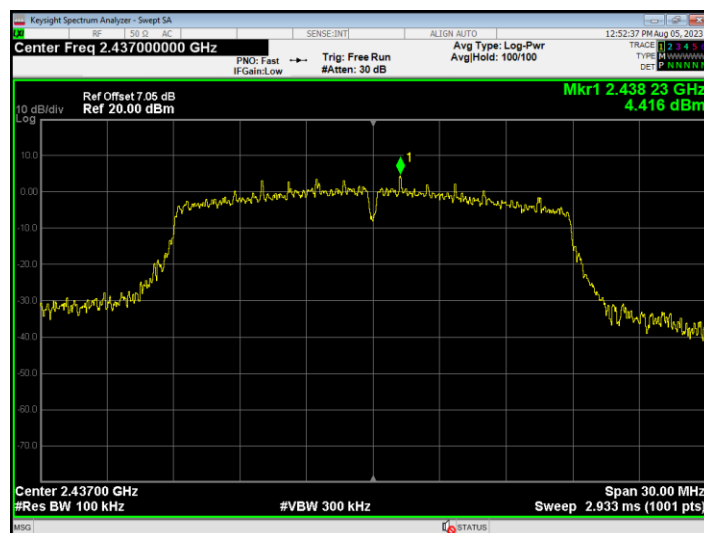
Tx. Spurious NVNT n20 2412MHz Ant1 Ref



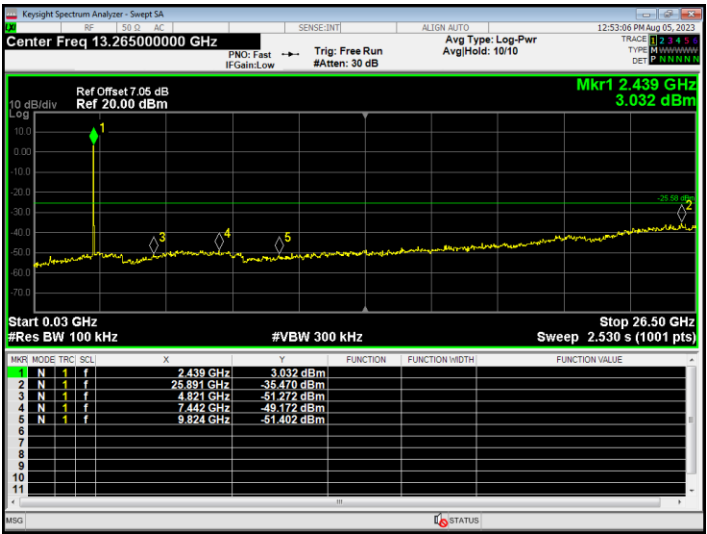
Tx. Spurious NVNT n20 2412MHz Ant1 Emission



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

