

ANNEX 2

FCC ID: 2A54Y-X7B

Applicant: Shenzhen TFIRETEK Technology Co, Ltd.

Address: Floor 2, Building A, Queshan Guanghao Industrial Park, Taoyuan Community, Dalang Street, Longhua District, Shenzhen

Manufacturer: Shenzhen TFIRETEK Technology Co, Ltd.

Address: Floor 2, Building A, Queshan Guanghao Industrial Park, Taoyuan Community, Dalang Street, Longhua District, Shenzhen

EUT: Projector

Trade Mark: N/A

Model Number: X7B, X7B-LAN, X7B-Pro, X7B-Max, X7B-Mate

Date of Receipt: Sep. 12, 2023

Test Date: Sep. 12, 2023 - Sep. 22, 2023

Date of Report: Sep. 22, 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

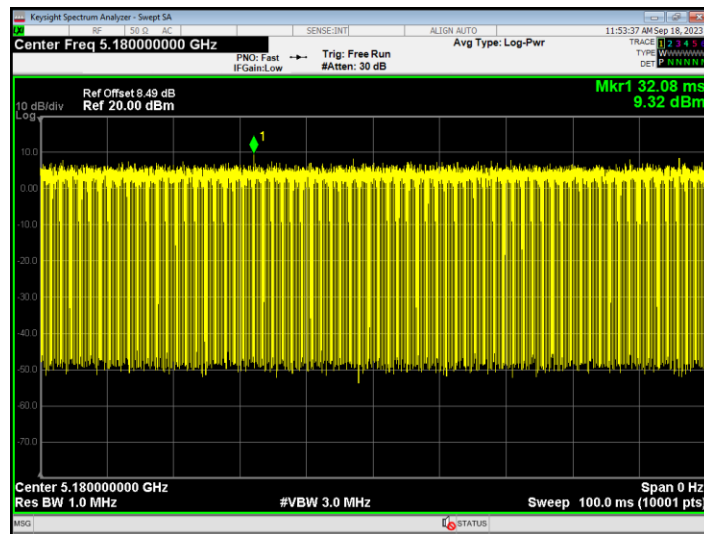
Applicable Standards: FCC PART 15 E 15.407
ANSI C63.10:2013

Test Result: Pass

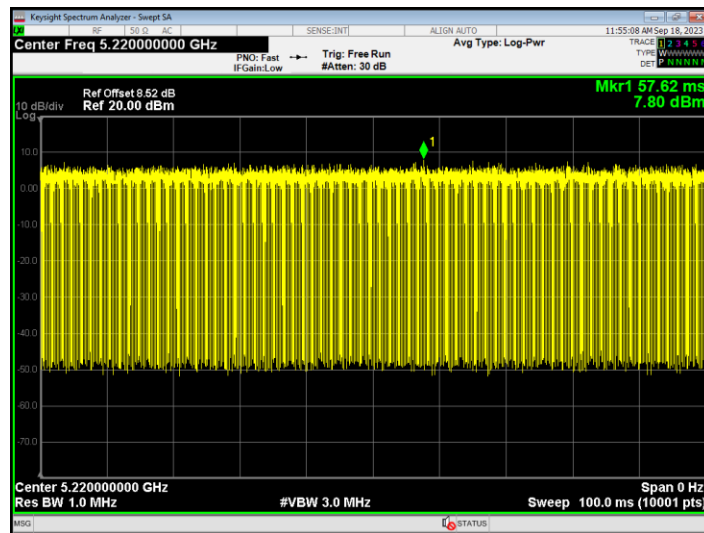
BAND 1**Duty Cycle**

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5180	Ant1	85.39	0.69
NVNT	a	5220	Ant1	85.36	0.69
NVNT	a	5240	Ant1	85.44	0.68
NVNT	n20	5180	Ant1	97.59	0.11
NVNT	n20	5220	Ant1	97.58	0.11
NVNT	n20	5240	Ant1	97.63	0.1
NVNT	n40	5190	Ant1	95.35	0.21
NVNT	n40	5230	Ant1	95.38	0.21

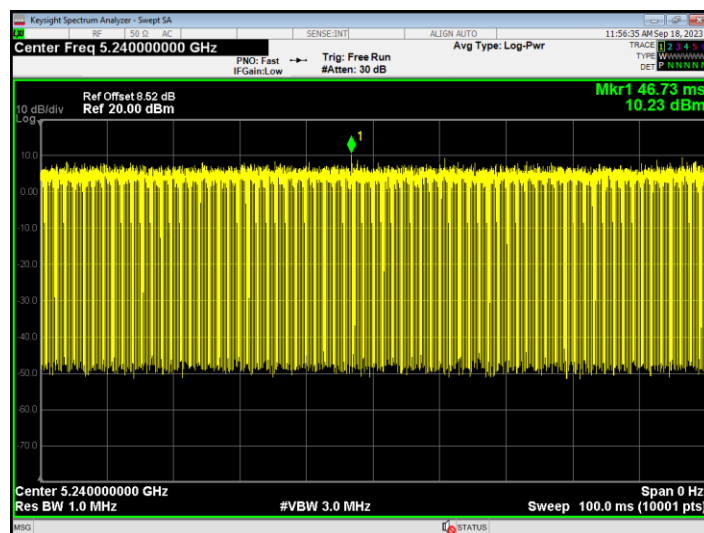
Duty Cycle NVNT a 5180MHz Ant1



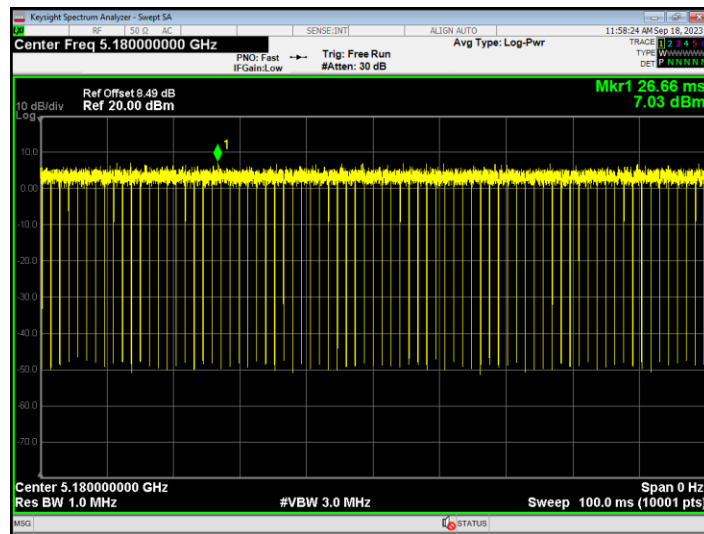
Duty Cycle NVNT a 5220MHz Ant1



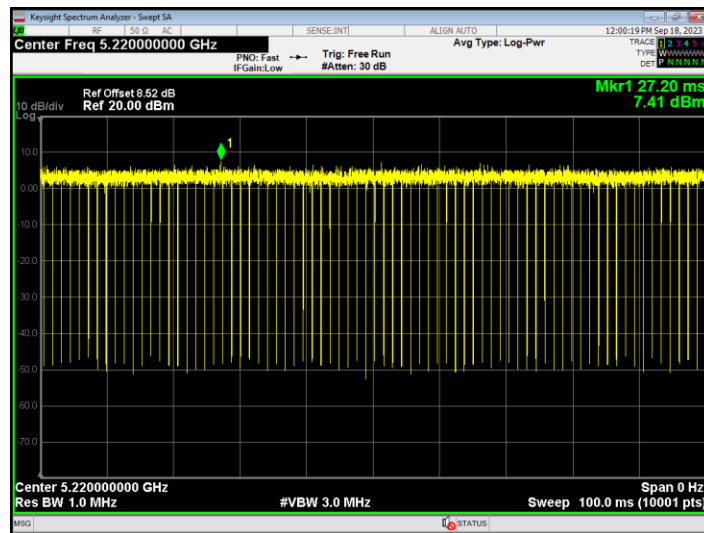
Duty Cycle NVNT a 5240MHz Ant1



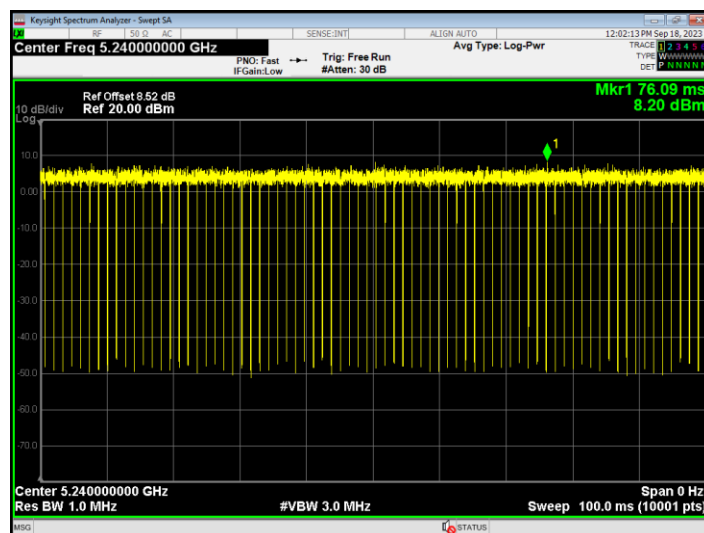
Duty Cycle NVNT n20 5180MHz Ant1



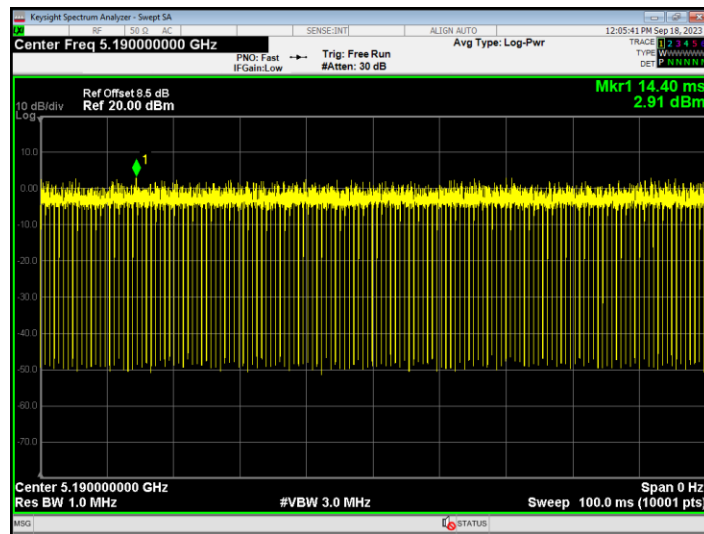
Duty Cycle NVNT n20 5220MHz Ant1



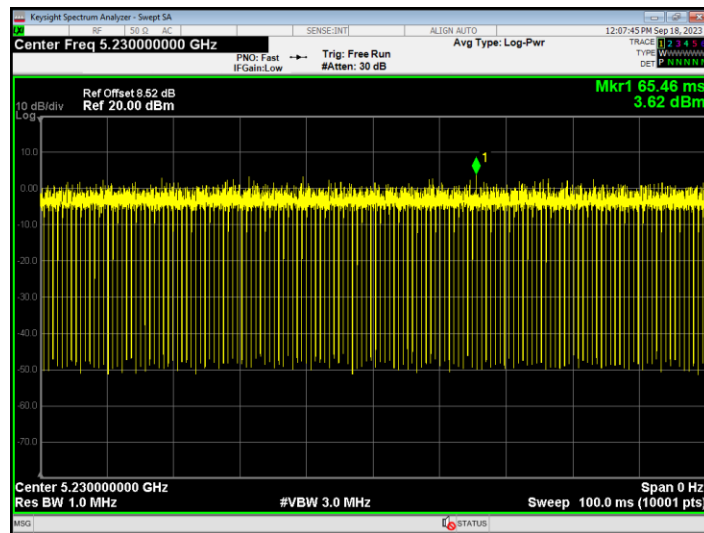
Duty Cycle NVNT n20 5240MHz Ant1



Duty Cycle NVNT n40 5190MHz Ant1



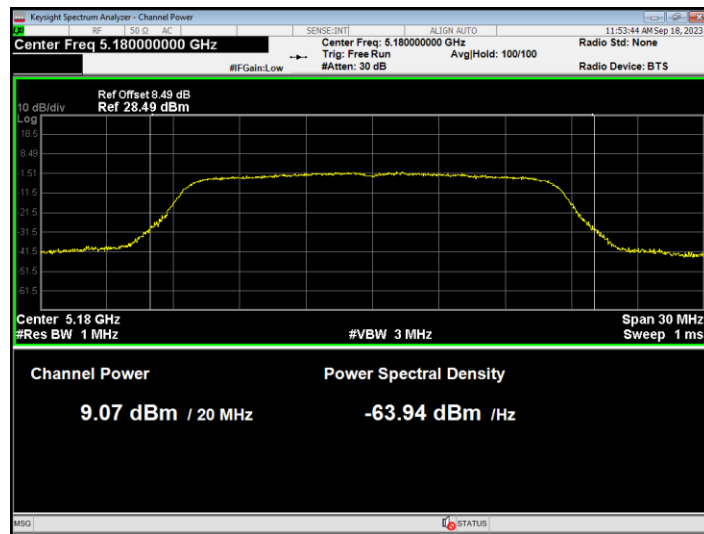
Duty Cycle NVNT n40 5230MHz Ant1



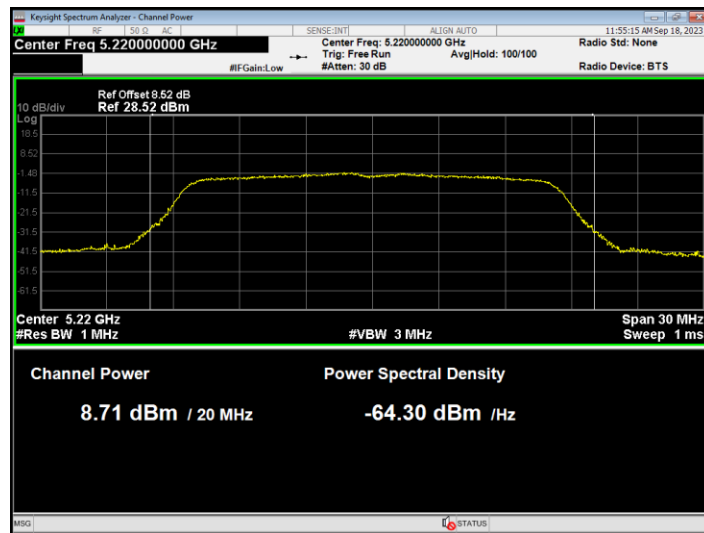
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	9.069	0.69	9.759	24	Pass
NVNT	a	5220	Ant1	8.706	0.69	9.396	24	Pass
NVNT	a	5240	Ant1	9.78	0.68	10.46	24	Pass
NVNT	n20	5180	Ant1	9.832	0.11	9.942	24	Pass
NVNT	n20	5220	Ant1	9.662	0.11	9.772	24	Pass
NVNT	n20	5240	Ant1	10.436	0.10	10.536	24	Pass
NVNT	n40	5190	Ant1	10.124	0.21	10.334	24	Pass
NVNT	n40	5230	Ant1	9.756	0.21	9.966	24	Pass

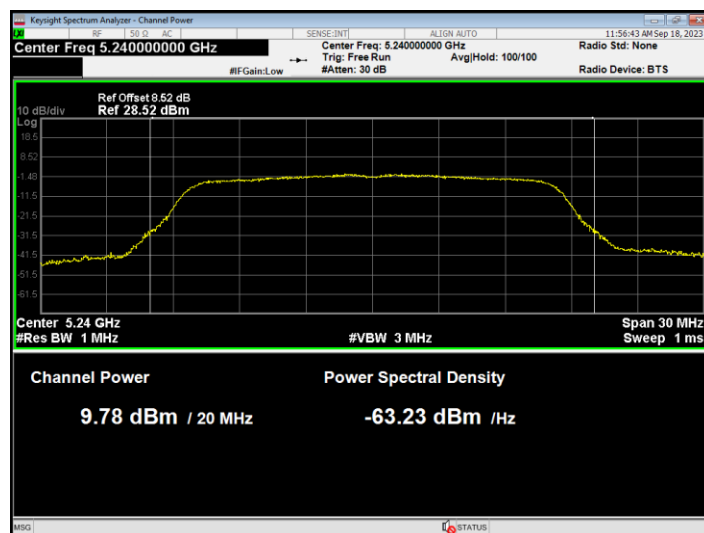
Power NVNT a 5180MHz Ant1



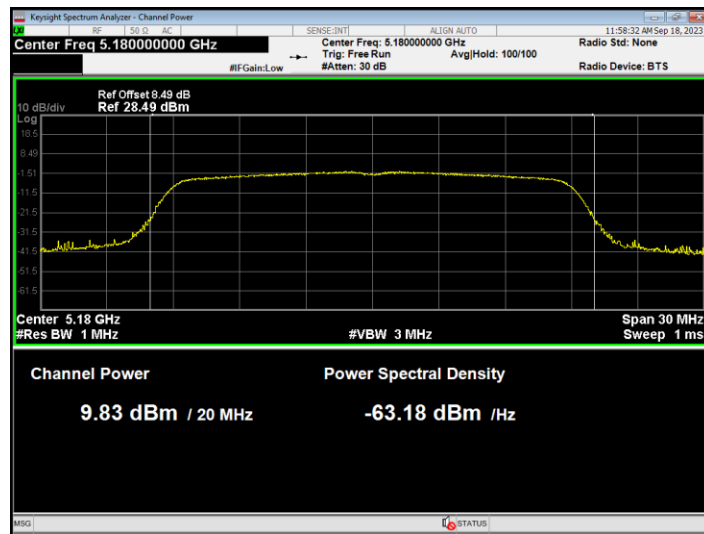
Power NVNT a 5220MHz Ant1



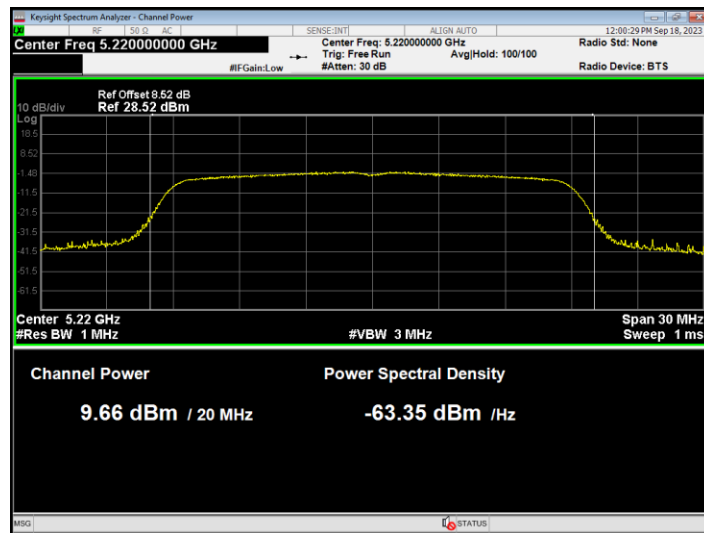
Power NVNT a 5240MHz Ant1



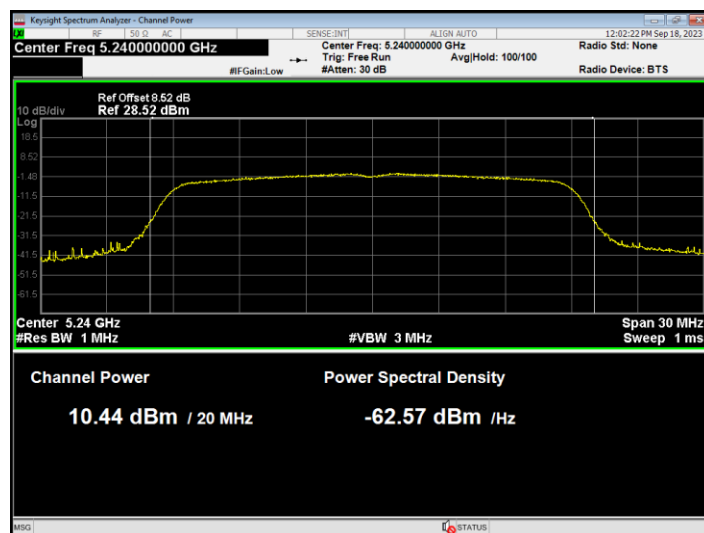
Power NVNT n20 5180MHz Ant1



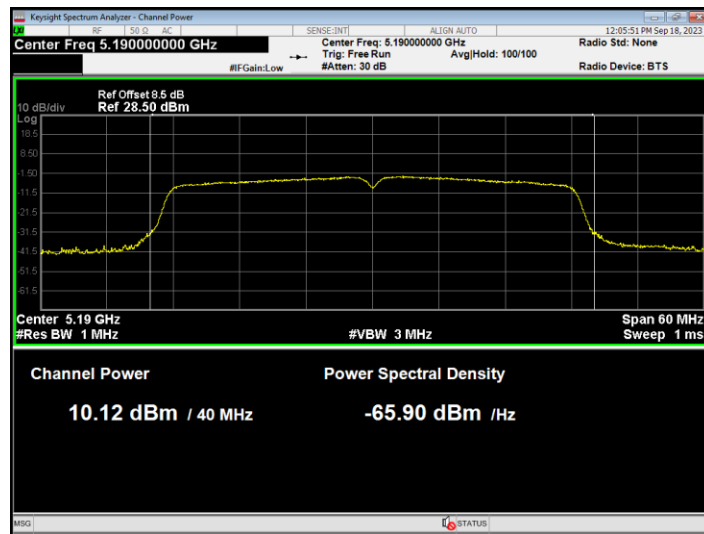
Power NVNT n20 5220MHz Ant1



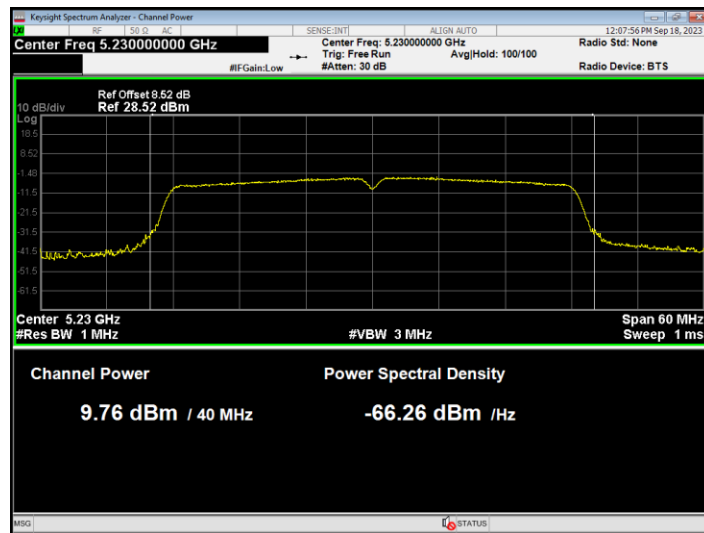
Power NVNT n20 5240MHz Ant1



Power NVNT n40 5190MHz Ant1



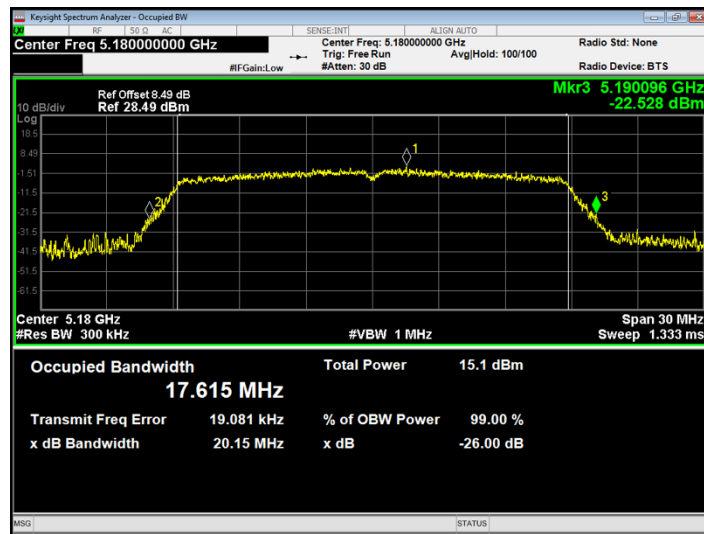
Power NVNT n40 5230MHz Ant1



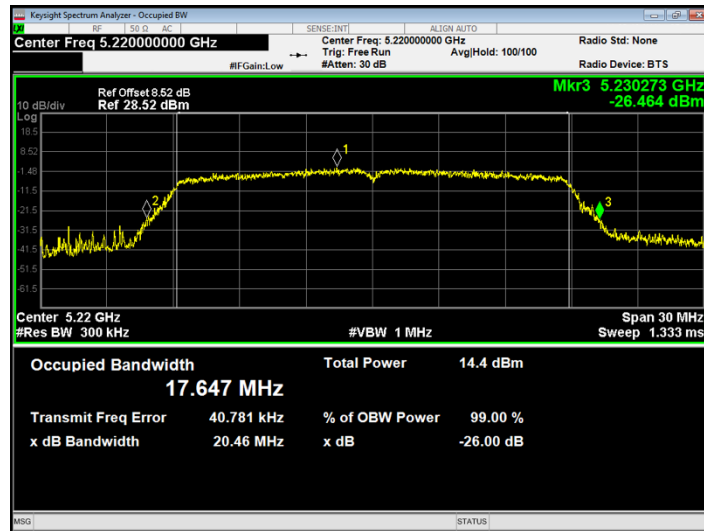
-26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	20.15	0.5	Pass
NVNT	a	5220	Ant1	20.47	0.5	Pass
NVNT	a	5240	Ant1	20.30	0.5	Pass
NVNT	n20	5180	Ant1	20.32	0.5	Pass
NVNT	n20	5220	Ant1	20.37	0.5	Pass
NVNT	n20	5240	Ant1	20.44	0.5	Pass
NVNT	n40	5190	Ant1	39.48	0.5	Pass
NVNT	n40	5230	Ant1	39.87	0.5	Pass

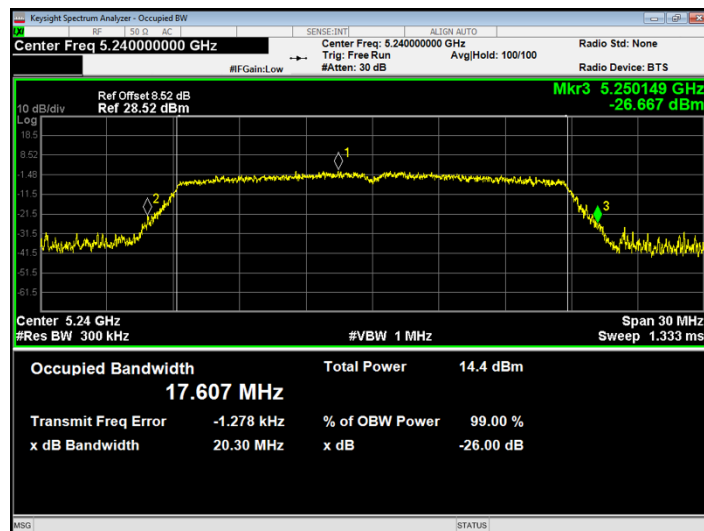
-26dB Bandwidth NVNT a 5180MHz Ant1



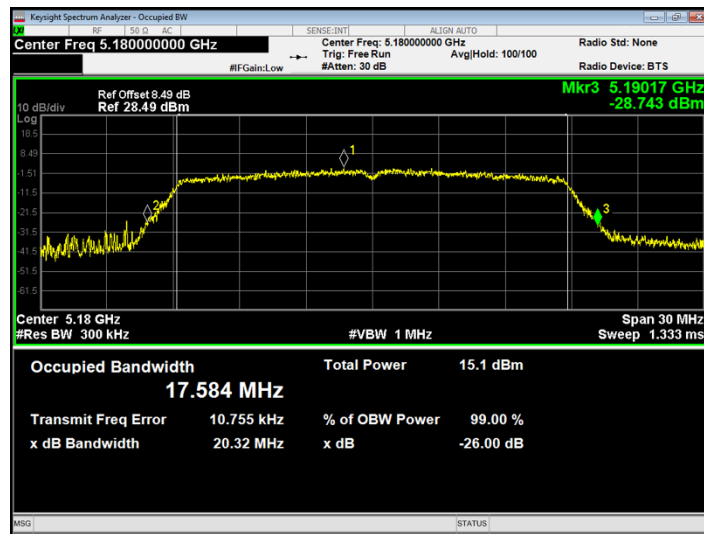
-26dB Bandwidth NVNT a 5220MHz Ant1



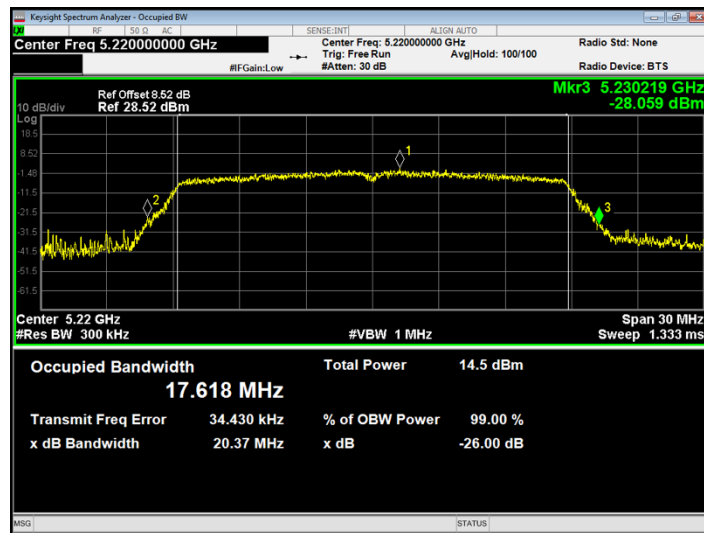
-26dB Bandwidth NVNT a 5240MHz Ant1



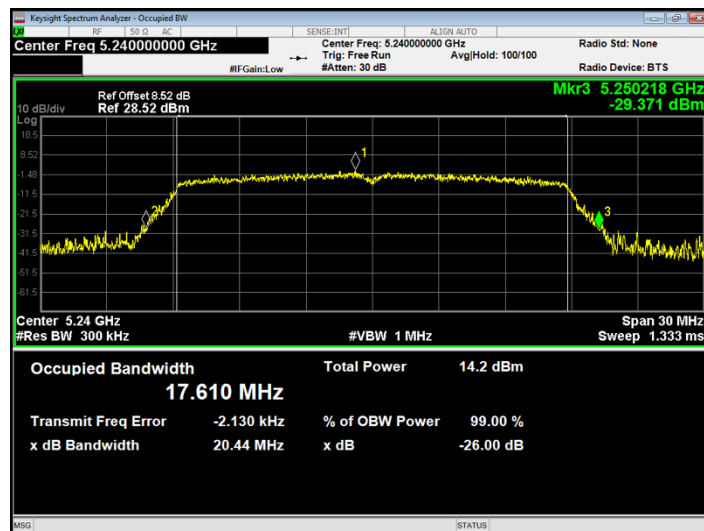
-26dB Bandwidth NVNT n20 5180MHz Ant1



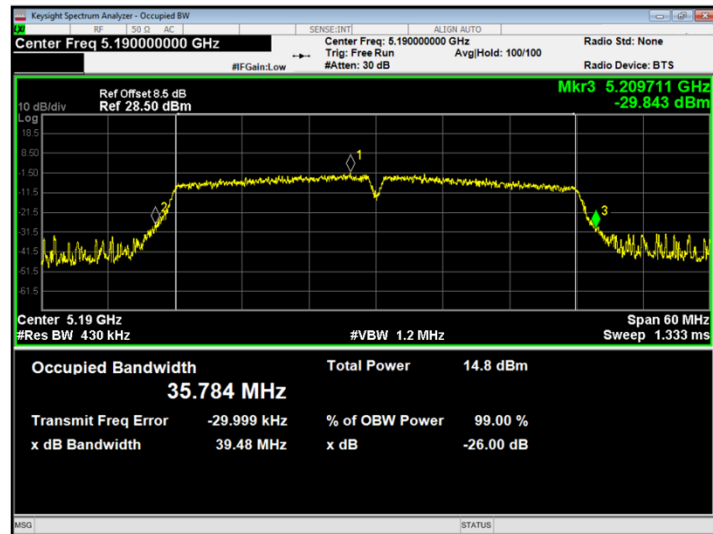
-26dB Bandwidth NVNT n20 5220MHz Ant1



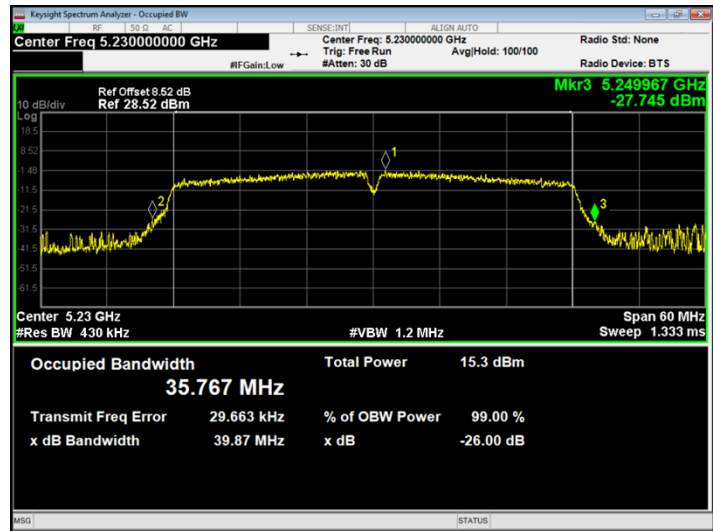
-26dB Bandwidth NVNT n20 5240MHz Ant1



-26dB Bandwidth NVNT n40 5190MHz Ant1



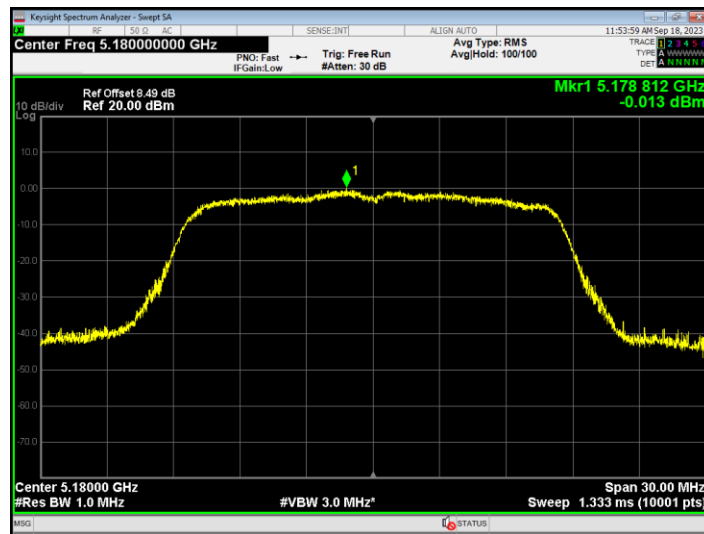
-26dB Bandwidth NVNT n40 5230MHz Ant1



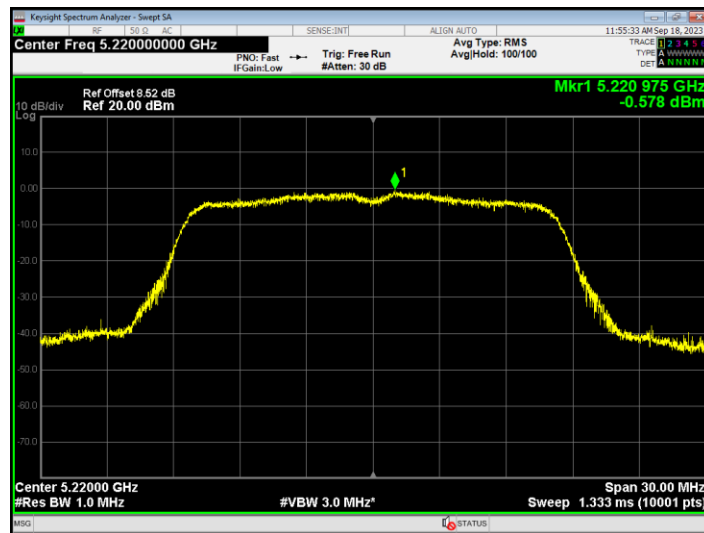
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-0.013	0.69	0.677	11	Pass
NVNT	a	5220	Ant1	-0.578	0.69	0.112	11	Pass
NVNT	a	5240	Ant1	0.948	0.68	1.628	11	Pass
NVNT	n20	5180	Ant1	0.078	0.11	0.188	11	Pass
NVNT	n20	5220	Ant1	-0.277	0.11	-0.167	11	Pass
NVNT	n20	5240	Ant1	0.777	0.1	0.877	11	Pass
NVNT	n40	5190	Ant1	-2.819	0.21	-2.609	11	Pass
NVNT	n40	5230	Ant1	-2.677	0.21	-2.467	11	Pass

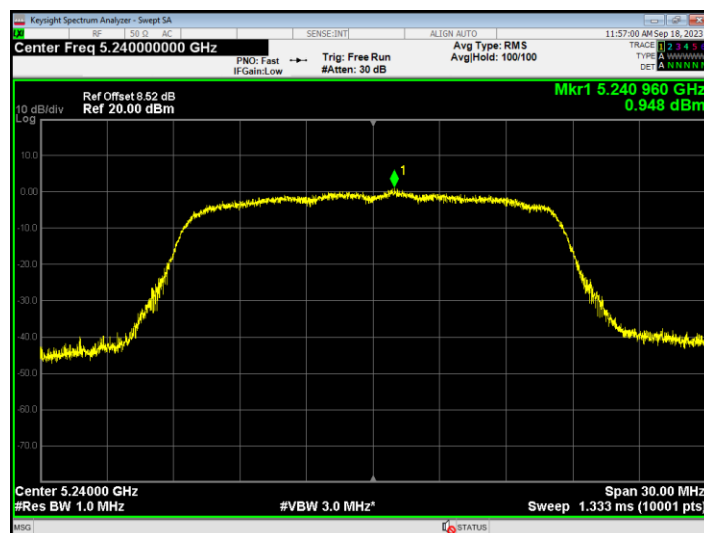
PSD NVNT a 5180MHz Ant1



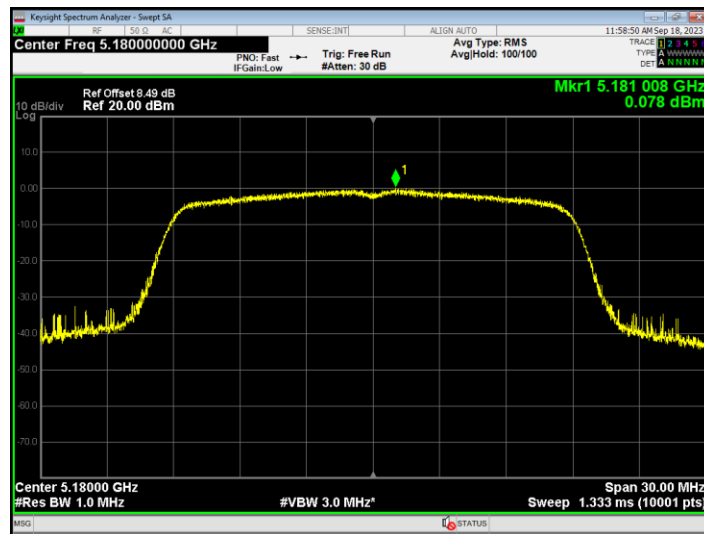
PSD NVNT a 5220MHz Ant1



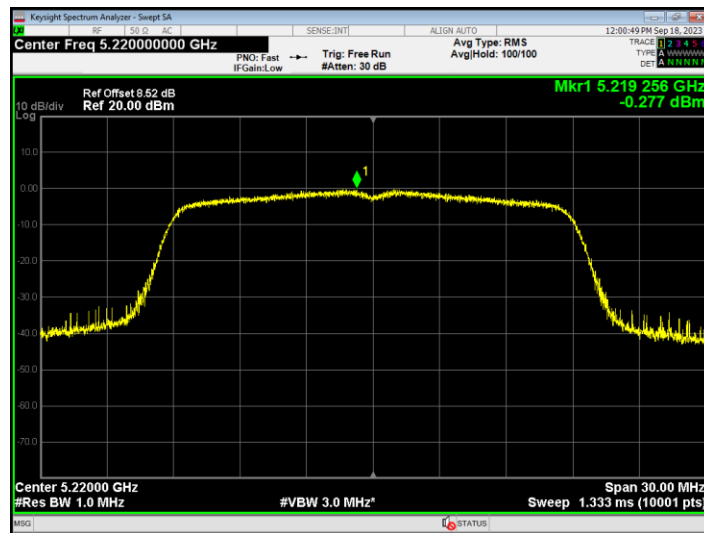
PSD NVNT a 5240MHz Ant1



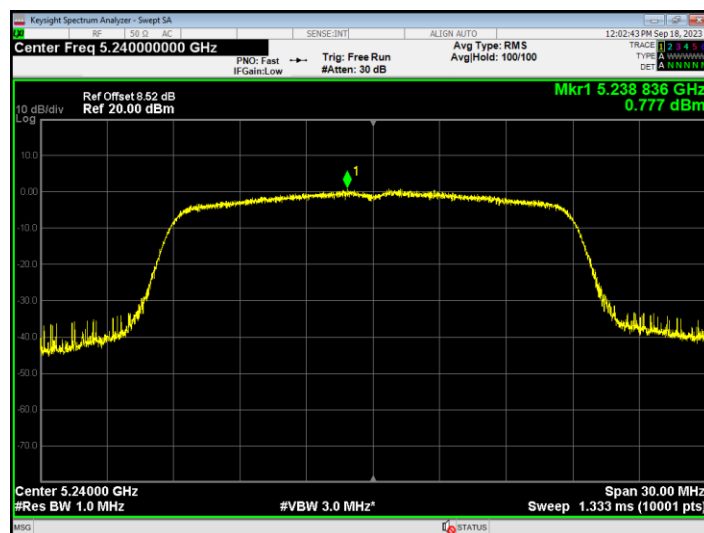
PSD NVNT n20 5180MHz Ant1



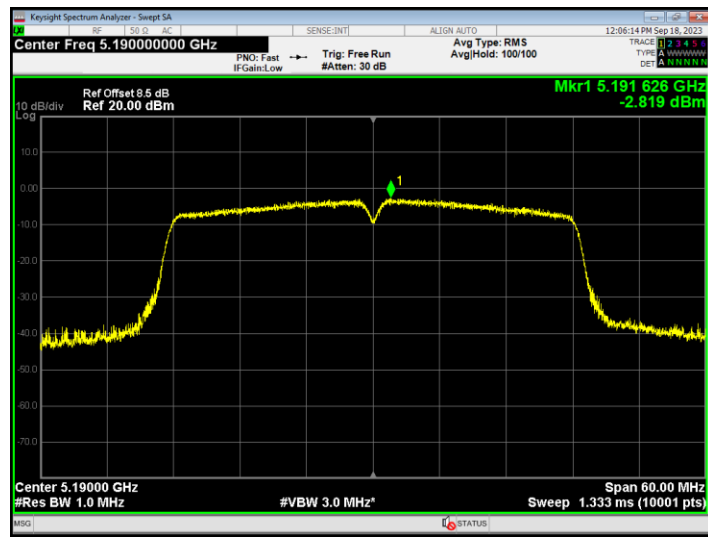
PSD NVNT n20 5220MHz Ant1



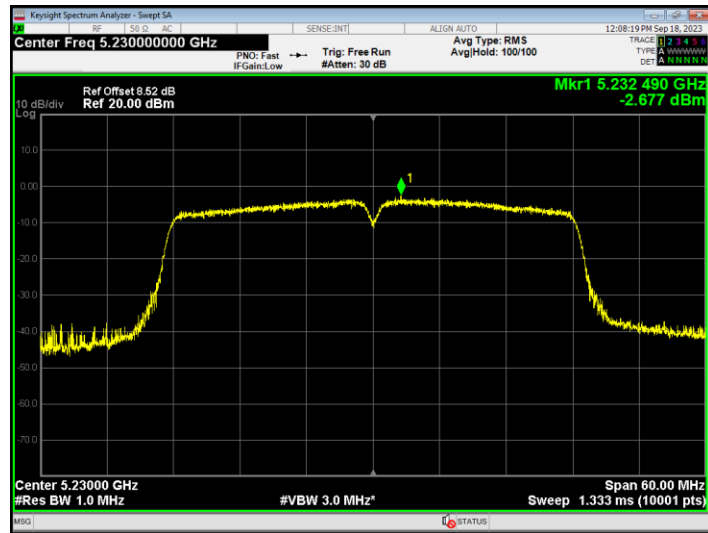
PSD NVNT n20 5240MHz Ant1



PSD NVNT n40 5190MHz Ant1



PSD NVNT n40 5230MHz Ant1

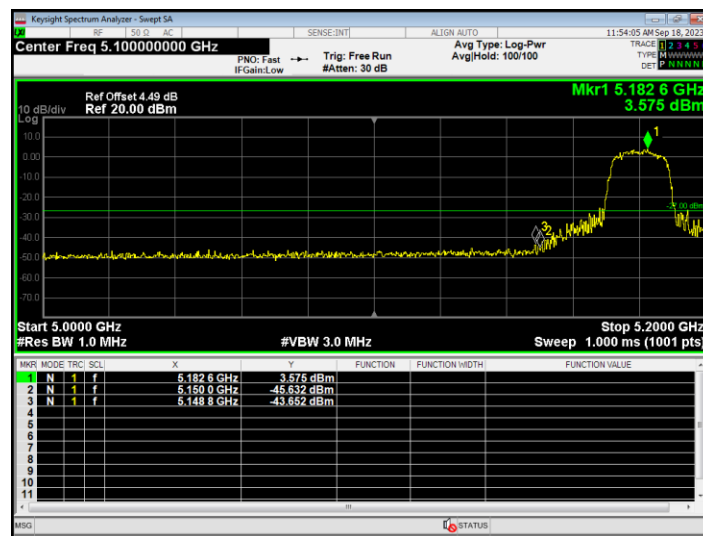


Band Edge

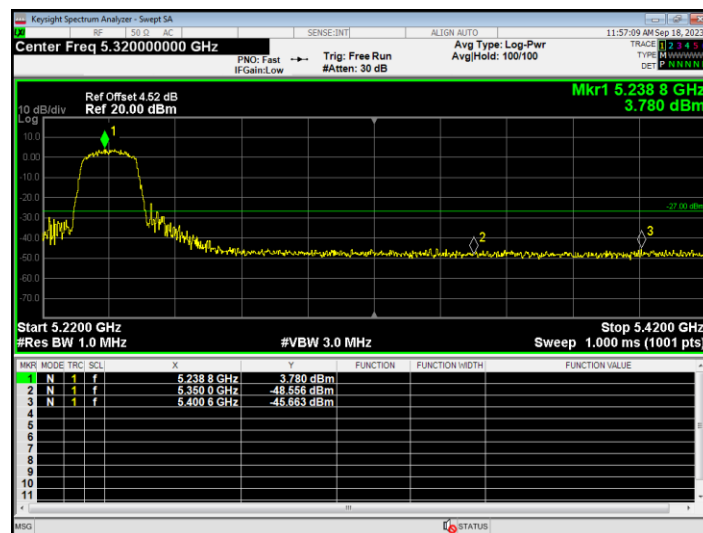
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	Ant1	-43.65	-27	Pass
NVNT	a	5240	Ant1	-45.66	-27	Pass
NVNT	n20	5180	Ant1	-37.7	-27	Pass
NVNT	n20	5240	Ant1	-45.28	-27	Pass
NVNT	n40	5190	Ant1	-32.99	-27	Pass
NVNT	n40	5230	Ant1	-45.55	-27	Pass

Ref offset=antenna gain + cable loss+ duty cycle factor

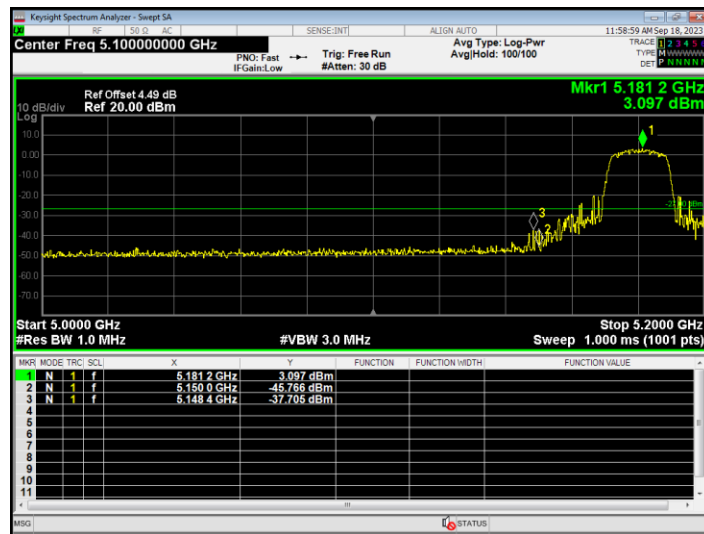
Band Edge NVNT a 5180MHz Low Ant1



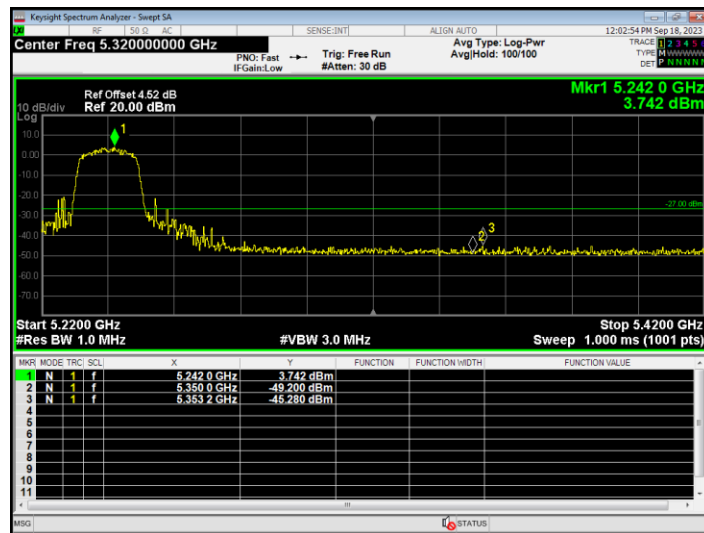
Band Edge NVNT a 5240MHz High Ant1



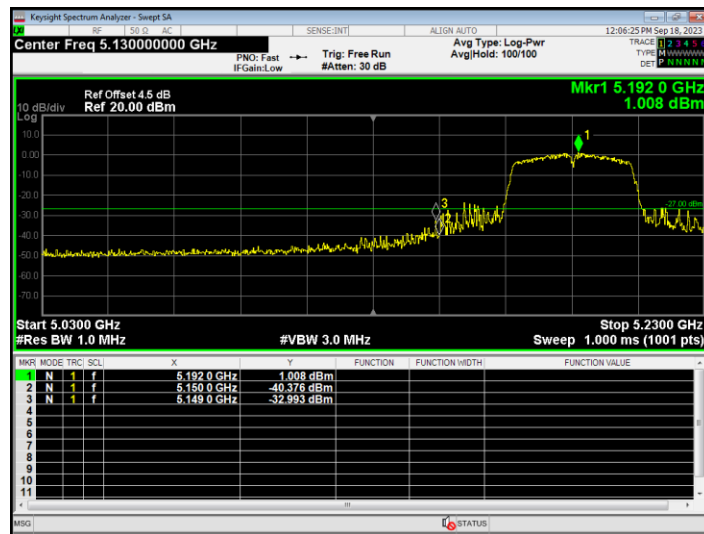
Band Edge NVNT n20 5180MHz Low Ant1



Band Edge NVNT n20 5240MHz High Ant1



Band Edge NVNT n40 5190MHz Low Ant1



Band Edge NVNT n40 5230MHz High Ant1

