

FCC TEST REPORT

FCC ID: 2BRHH-9902A

On Behalf of

Shenzhen Moshou Technology Co., Ltd.

Motorcycle Navigation

Model No.: 9902A

M1, M1+DVR, M1+DVR+TP, M2, M2A, M2A+DVR, M3A, M3, M3+DVR, M3+DVR+TP, M4, M4+DVR, M5, M5A, M5A+DVR, M6, M6+DVR, M6+DVR+TP, M7, M7+DVR, M7+DVR+TP, M8, M8+TP, M8+DVR, M8+DVR+TP, M9, M9+DVR, M9+DVR+TP, M10, M10+DVR, M11, M11A, M12, M12A, M13, M14, M15, M15+DVR, M16, M16+DVR, M16A, M16A+DVR, M16B, M17, M17+TP, M17+DVR, M17+DVR+TP, M18, M19, M20A, M20B, M20C, M30A, M30B, M30C, M21, M21CX, M22, M23+DVR+TP, M23, M23+DVR, M24, M24+DVR, M25, M25+DVR, M26, M26+DVR

Prepared for : Shenzhen Moshou Technology Co., Ltd.
Address : 201, Building 14, No. 62 Nanchang Road, Nanchang Community,
Xixiang Street, Bao'an District, Shenzhen

Prepared By : Shenzhen PSI Testing Co., Ltd.
1-2/F., Building 5, Yudafu Industrial Park, No.10, Xingye West
Address : Road, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong,
China

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TEST REPORT DECLARATION

Applicant : Shenzhen Moshou Technology Co., Ltd.
Address : 201, Building 14, No. 62 Nanchang Road, Nanchang Community, Xixiang Street,
Bao'an District, Shenzhen
Manufacturer : Shenzhen Moshou Technology Co., Ltd.
Address : 201, Building 14, No. 62 Nanchang Road, Nanchang Community, Xixiang Street,
Bao'an District, Shenzhen
EUT Description : Motorcycle Navigation

(A) Model No. : 9902A
M1, M1+DVR, M1+DVR+TP, M2, M2A, M2A+DVR,
M3A, M3, M3+DVR, M3+DVR+TP, M4, M4+DVR,
M5, M5A, M5A+DVR, M6, M6+DVR, M6+DVR+TP,
M7, M7+DVR, M7+DVR+TP, M8, M8+TP,
M8+DVR, M8+DVR+TP, M9, M9+DVR,
M9+DVR+TP, M10, M10+DVR, M11, M11A, M12,
M12A, M13, M14, M15, M15+DVR, M16,
M16+DVR, M16A, M16A+DVR, M16B, M17,
M17+TP, M17+DVR, M17+DVR+TP, M18, M19,
M20A, M20B, M20C, M30A, M30B, M30C, M21,
M21CX, M22, M23+DVR+TP, M23, M23+DVR,
M24, M24+DVR, M25, M25+DVR, M26, M26+DVR
(B) Trademark : /

Measurement Standard Used:

FCC Rules and Regulations Part 15 Subpart E

ANSI C63.4:2014, ANSI C63.10:2013

Test Result: PASS

The device described above is tested by Shenzhen PSI Testing Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart E limits both conducted and radiated emissions. The test results are contained in this test report and Shenzhen PSI Testing Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen PSI Testing Co., Ltd.

Tested by (name + signature).....:

Felix Pang

Test Engineer



Approved by (name + signature).....:

Simple Guan

Project Manager



Date of issue.....:

July 30, 2025

Revision History

Revision	Issue Date	Revisions	Revised By
V0	July 30, 2025	Initial released Issue	Felix Pang



1 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	Section 15.203 Section 7.1.4 RSS-Gen Issue 5	PASS
AC Power Line Conducted Emission	Section 15.207 Section 7.2.4 RSS-GEN(8.8), ANSI C63.10	PASS
occupied bandwidth	Section 15.407 (e)	PASS
Maximum Conducted Output Power	Section 15.407(a), RSS-247 5.4(2)	PASS
Power Spectral Density	Section 15.407(a), RSS-247 5.2(2)	PASS
Undesirable Emission	Section 15.407(b), RSS-247 5.5	PASS
Radiated Emission	Section 15.407(b)&15.209 Section 5.5 RSS-Gen(8.9), RSS-247(5.5), ANSI C63.10	PASS
Band Edge	15.205, RSS-247 Issue 3, ANSI C63.10	PASS
Frequency Stability	15.407(g), RSS-GEN(6.11)	PASS

Remark:

1. Pass: The EUT complies with the essential requirements in the standard.
2. Frequency Stability: The manufacturer stated in the user's manual.
3. The conclusion of this test report is judged by actual test data without considering measurement uncertainty.

1.1 Measurement Uncertainty

Item	Uncertainty
Uncertainty for Power Line Conducted Emissions Test	2.17dB
Uncertainty for Radiation Emission test in 3m chamber (below 30MHz)	3.5dB
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	2.74dB(Polarize: V)
	2.76dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 18GHz)	4.29dB(Polarize: V)
	4.82dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber (18GHz to 40GHz)	4.31dB(Polarize: V)
	4.30dB(Polarize: H)
Uncertainty for radio frequency	48.24KHz
Uncertainty for conducted RF Power	0.41dB
Uncertainty for Power Spectral Density	0.39 dB
Occupied-Bandwidth	968Hz
Conducted-Spurious Emission	1.26dB

2 General Information

2.1 General Description of EUT

EUT Name	: Motorcycle Navigation 9902A
Model	: M1, M1+DVR, M1+DVR+TP, M2, M2A, M2A+DVR, M3A, M3, M3+DVR, M3+DVR+TP, M4, M4+DVR, M5, M5A, M5A+DVR, M6, M6+DVR, M6+DVR+TP, M7, M7+DVR, M7+DVR+TP, M8, M8+TP, M8+DVR, M8+DVR+TP, M9, M9+DVR, M9+DVR+TP, M10, M10+DVR, M11, M11A, M12, M12A, M13, M14, M15, M15+DVR, M16, M16+DVR, M16A, M16A+DVR, M16B, M17, M17+TP, M17+DVR, M17+DVR+TP, M18, M19, M20A, M20B, M20C, M30A, M30B, M30C, M21, M21CX, M22, M23+DVR+TP, M23, M23+DVR, M24, M24+DVR, M25, M25+DVR, M26, M26+DVR
Diff	: 9902A is the test model, while other models are derivative models. These models are the same on the circuit, with only different model names. Therefore, the test data of 9902A can represent the remaining models.
Test Voltage	: Input: DC 12 -24 V
Adapter	: /
Radio Technology	: 5G WIFI
Operation frequency	: 802.11a/802.11n(HT20): 5180-5240MHz, 5260MHz to 5320MHz, 5500MHz-5720MHz, 5745-5825MHz
Channel separation	: 802.11n(HT40): 5190-5230MHz, 5270-5310MHz, 5510-5710MHz, 5755-5795MHz 20MHz for 802.11a/802.11n(HT20) 40MHz for 802.11n(HT40)
Modulation technology:	: IEEE 802.11n: OFDM (64QAM,16QAM,QPSK,BPSK) IEEE 802.11a: OFDM (64QAM,16QAM,QPSK,BPSK)
Antenna Type	: FPC Antenna, maximum gain is 2.46dBi.
PMN	: N/A
HVIN	: N/A
Software version	: V1.0
Hardware version	: V1.0
Note	: Antenna information is provided by applicant. Testing lab is not responsible for the accuracy of the information.

2.2 Test mode

Transmitting mode Keep the EUT in transmitting with modulation.
EUT was test with 99% duty cycle at its maximum power control level.

Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

2.3 Test Facility

Shenzhen PSI Testing Co., Ltd.

1-2/F., Building 5, Yudafu Industrial Park, No.10, Xingye West Road, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

September 13, 2023 File on Federal Communication Commission
Registration Number: 916281

September 21, 2023 Certificated by IC
Registration Number: 31123
CAB identifier: CN0158

2.4 Description of Support Units

Accessories 1 : /
Manufacturer : /
Model : /
Rating : /

Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number

2.6 Deviation from Standards

None.

2.7 Abnormalities from Standard Conditions

None.

2.8 Other Information Requested by the Customer

None.

2.9 Additional instructions

Software (Used for test) from client

Channel	Power level
Lowest	Default
Middle	Default
Highest	Default

2.10 Test Conditions

Items	Required	Actual
Temperature range:	15-35℃	26℃
Humidity range:	25-75%	54%
Pressure range:	86-106kPa	101kPa

3 Test Instruments list

Item	Equipment	Manufacturer	Model No.	Serial No.	Firmware Version	Last Cal.	Cal. Interval
1.	9*6*6 anechoic chamber	SKET	9*6*6	N/A	/	2022.12.20	3 Year
2.	Test Receiver	Rohde&Schwarz	ESCI 7	101032/003	4.42 SP3	2024.12.18	1 Year
3.	L.I.S.N.#1	Rohde&Schwarz	ENV216	102282	/	2024.12.18	1 Year
4.	L.I.S.N.#2	RFT	NNB111	13835240	/	2024.12.18	1 Year
5.	Loop Antenna	Schwarz beck	FMZB 1519B	00128	/	2025.01.02	2 Year
6.	Bilog Antenna	Schwarz beck	VULB 9168	01448	/	2025.01.02	2 Year
7.	Spectrum Analyzer	Rohde&Schwarz	FSV-40N	101648	3.70	2024.12.18	1 Year
8.	Horn Antenna	Schwarz beck	BBHA 9120 D	02706	/	2025.01.02	2 Year
9.	Amplifier	SKET	LAPA_01G1 8G-45dB	SK20220329 01	/	2024.12.18	1 Year
10.	Horn Antenna	Schwarz beck	BBHA 9170	00946	/	2024.12.31	2 Year
11.	Amplifier	SKET	LNPA_0118 G-45	SK20200108 01	/	2024.12.18	1 Year
12.	RF Power Probe	Rohde&Schwarz	NRP-Z11	1138.3004.02 -1111533-Fz	/	2024.12.18	1 Year
13.	RF Sensor Unit	Tachoy	TR1029-2	20220428P0 08	/	2024.12.18	1 Year
14.	Spectrum Analyzer	Agilent	N9020A	MY51281067	A.14.03	2024.12.18	1 Year
15.	Temp. & Humid Chamber	Auchno	9606	/	/	2024.12.18	1 Year
16.	Regulated DC Power Supply	Xinouhua	ADC120V10 A	20221125163 8	/	2024.12.18	1 Year
17.	Cable	SKET	Cable-RE-1	#02/#03	/	2024.12.18	1 Year
18.	Cable	SKET	Cable-RE-2	#01	/	2024.12.18	1 Year
19.	Cable	SKET	Cable-RE-3	#04	/	2024.12.18	1 Year
20.	Cable	SKET	Cable-CE-1	A-E-24	/	2024.12.18	1 Year
21.	6dB Attenuator	Schwarzbeck	DGA 9552N 6dB	CK4186	/	2024.12.18	1 Year
22.	Power meter	Agilent	E4419B	GB40202121	/	2024.12.18	1 Year

For Test Software Information			
Item	Software Name	Manufacturer	Version
RE	EZ_EMC	Farad	PSI-3A1
CE	EZ_EMC	Farad	PSI-3A1
RF	RTS	TACHOY	V1.0.0



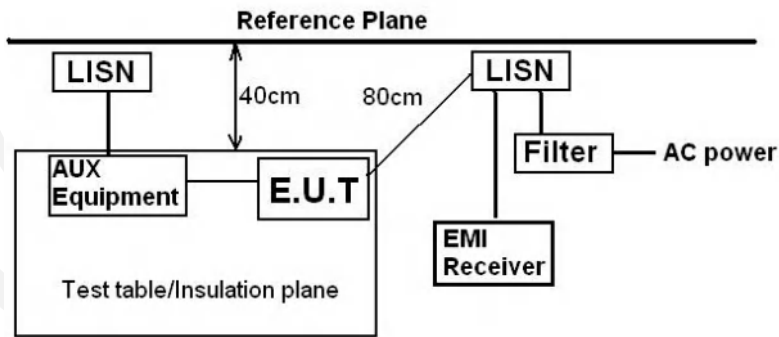
4 Test results and Measurement Data

4.1 Antenna requirement:

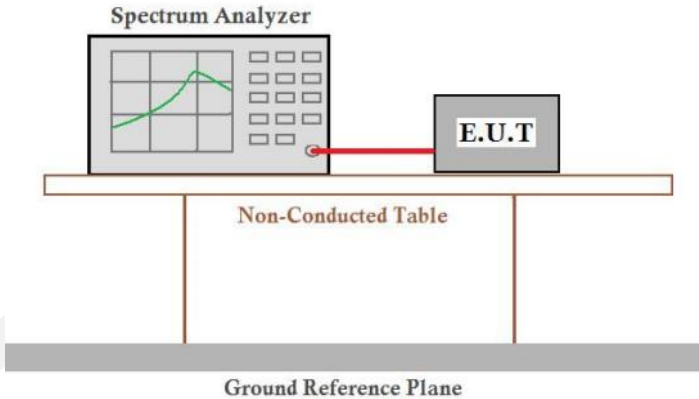
Standard requirement:	FCC Part15 C Section 15.203, RSS-GEN(6.8)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
E.U.T Antenna:	
FPC Antenna, Maximum Gain is 2.46dBi.	



4.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207, RSS-Gen §8.8		
Test Method:	ANSI C63.10:2013		
Test Frequency Range:	150KHz to 30MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9KHz, VBW=30KHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test procedure	The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.		
Test setup:	 Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m		
Test Instruments:	Refer to section 3.0 for details		
Test mode:	Refer to section 2.2 for details		
Test results:	N/A Not applicable to Portable equipment.		

4.3 Emission Bandwidth and 99% Occupied Bandwidth

Test Requirement:	FCC Part15 E Section 15.407, RSS-Gen §6.7; RSS-247 §6.2
Test Method:	KDB 789033 D02 General UNII Test Procedures New Rules v02r01
Limit:	N/A
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer, shown with a grid and a green signal trace, is connected to an E.U.T. (Equipment Under Test) box by a red cable. Both the Spectrum Analyzer and the E.U.T. are positioned on a 'Non-Conducted Table'. This table is supported by two vertical legs that rest on a 'Ground Reference Plane', which is represented by a thick grey horizontal bar at the bottom of the setup.
Test procedure:	According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass

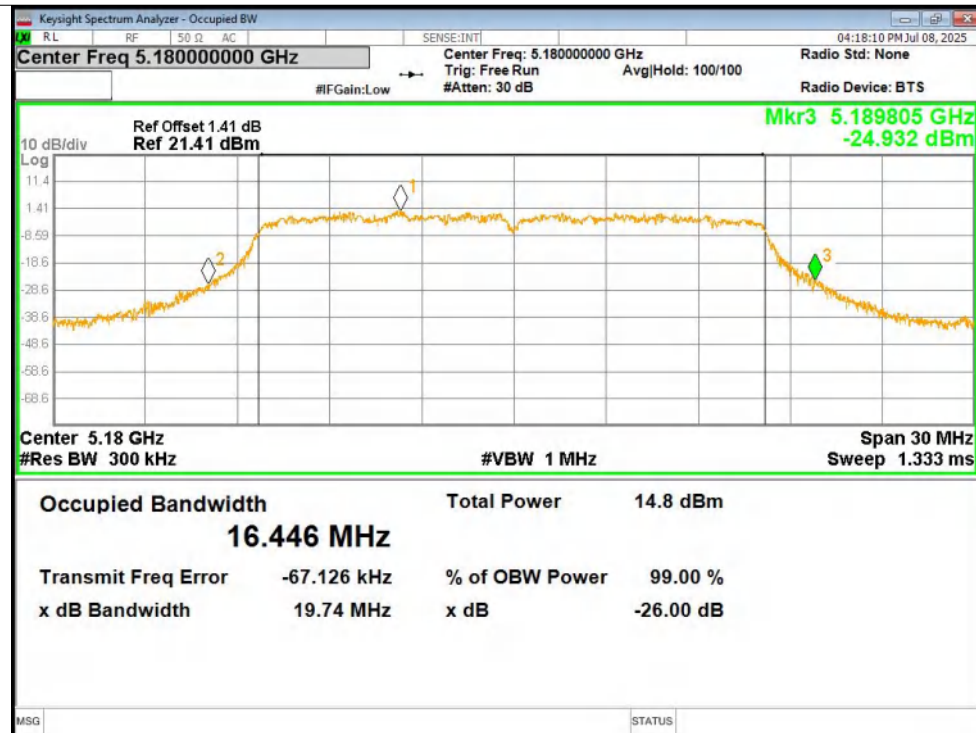
Measurement Data:

5.2GWIFI (5180-5240 MHz)

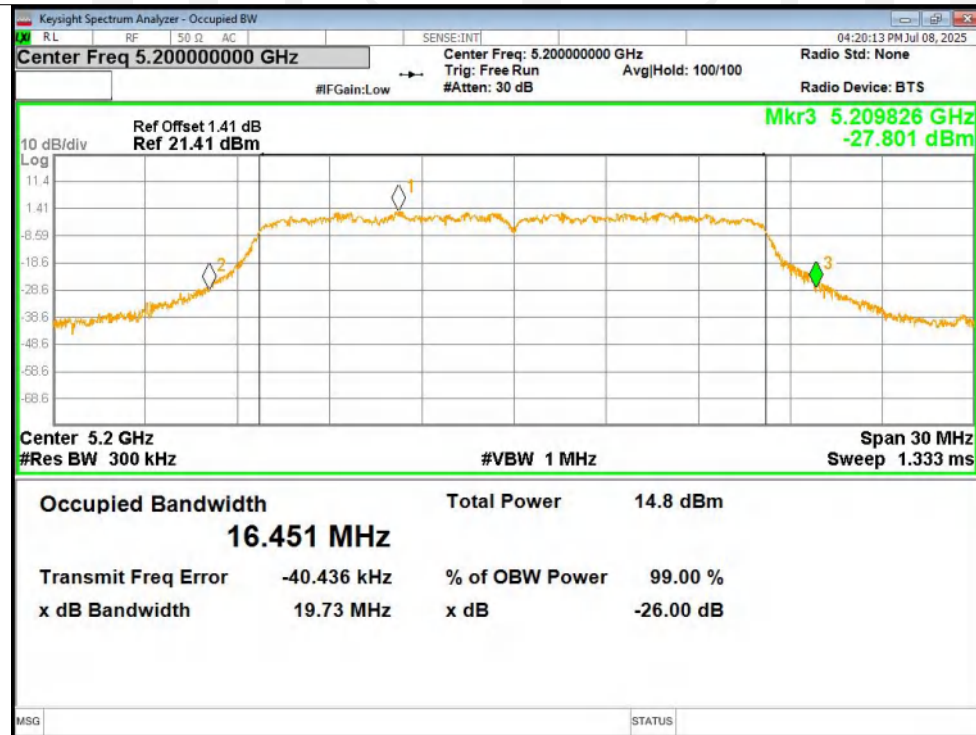
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	19.744	0.5	Pass
NVNT	a	5200	Ant1	19.733	0.5	Pass
NVNT	a	5240	Ant1	19.769	0.5	Pass
NVNT	n20	5180	Ant1	20.831	0.5	Pass
NVNT	n20	5200	Ant1	20.832	0.5	Pass
NVNT	n20	5240	Ant1	20.837	0.5	Pass
NVNT	n40	5190	Ant1	38.336	0.5	Pass
NVNT	n40	5230	Ant1	38.197	0.5	Pass

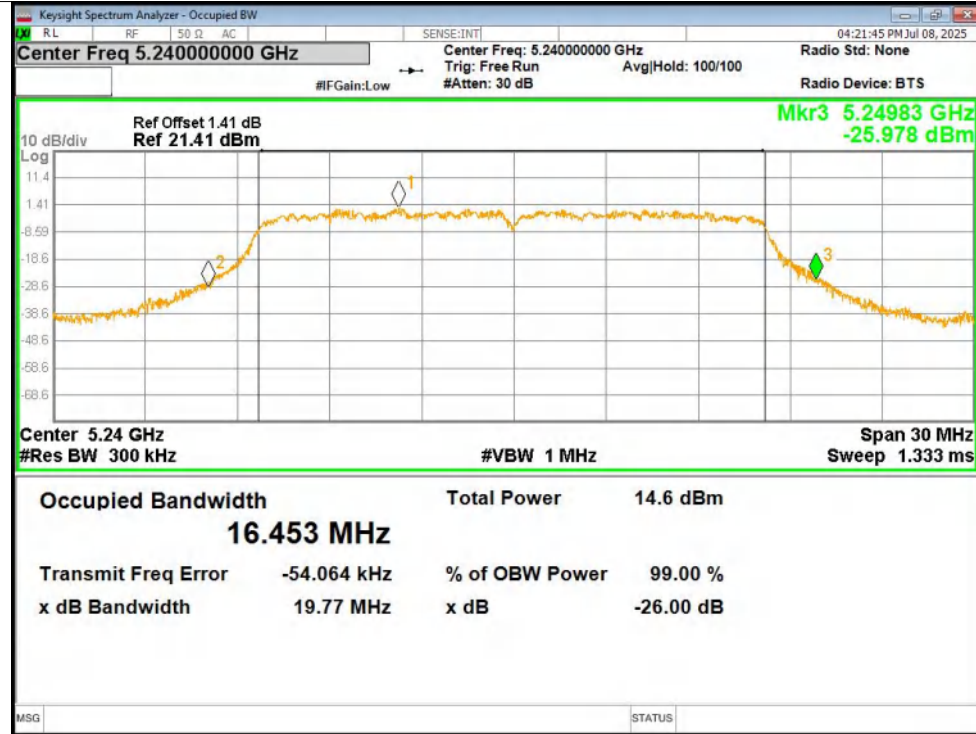
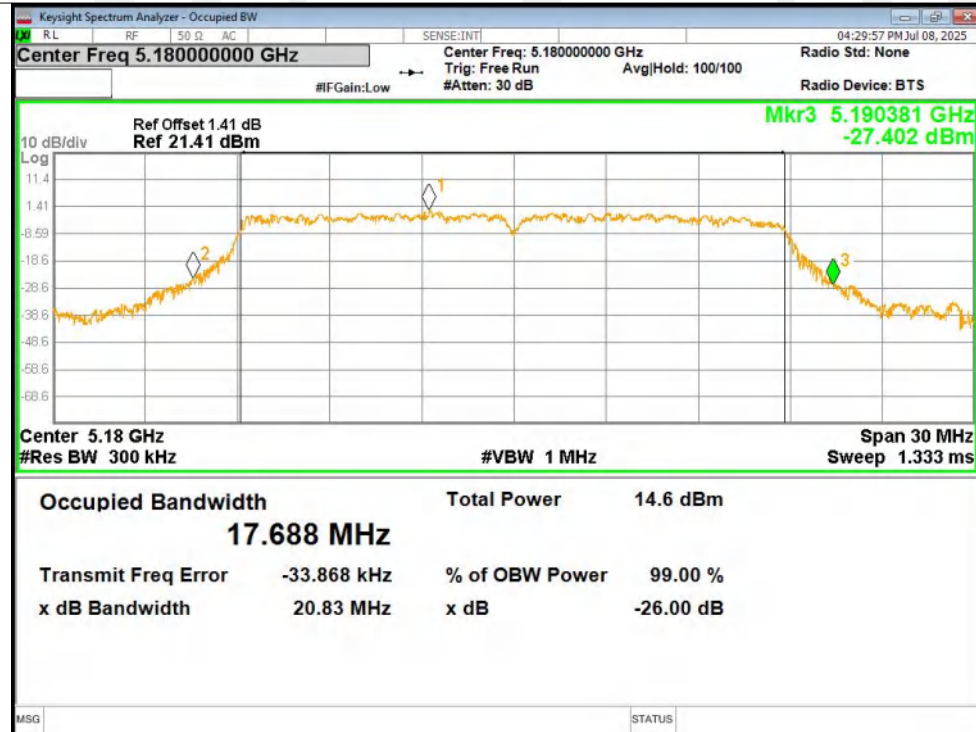
Test Graphs

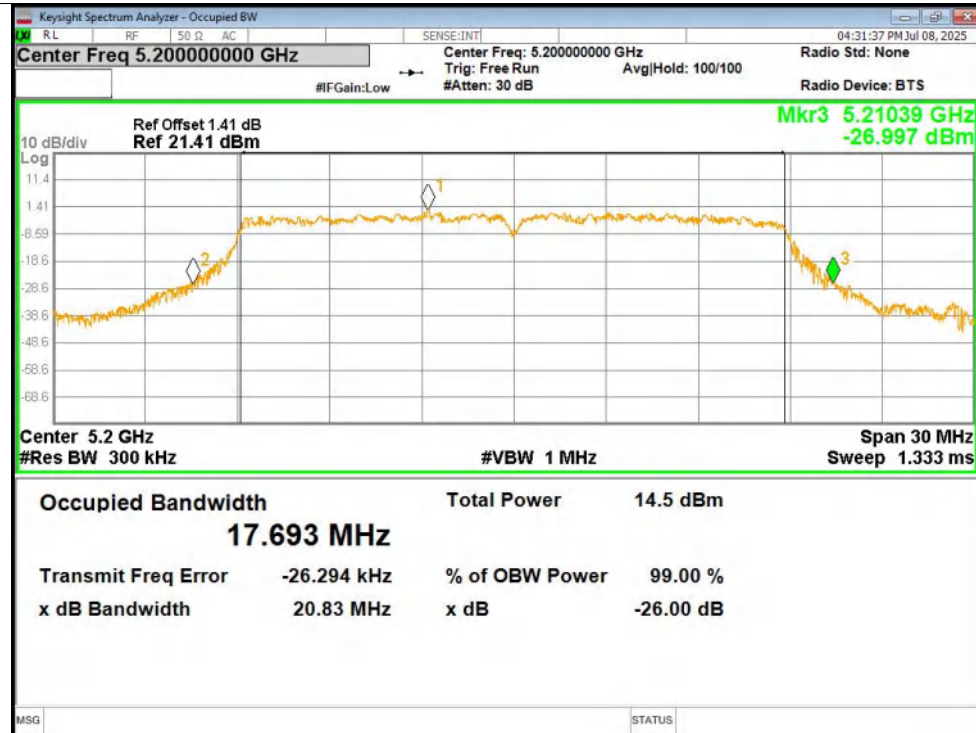
-26dB Bandwidth NVNT a 5180MHz Ant1

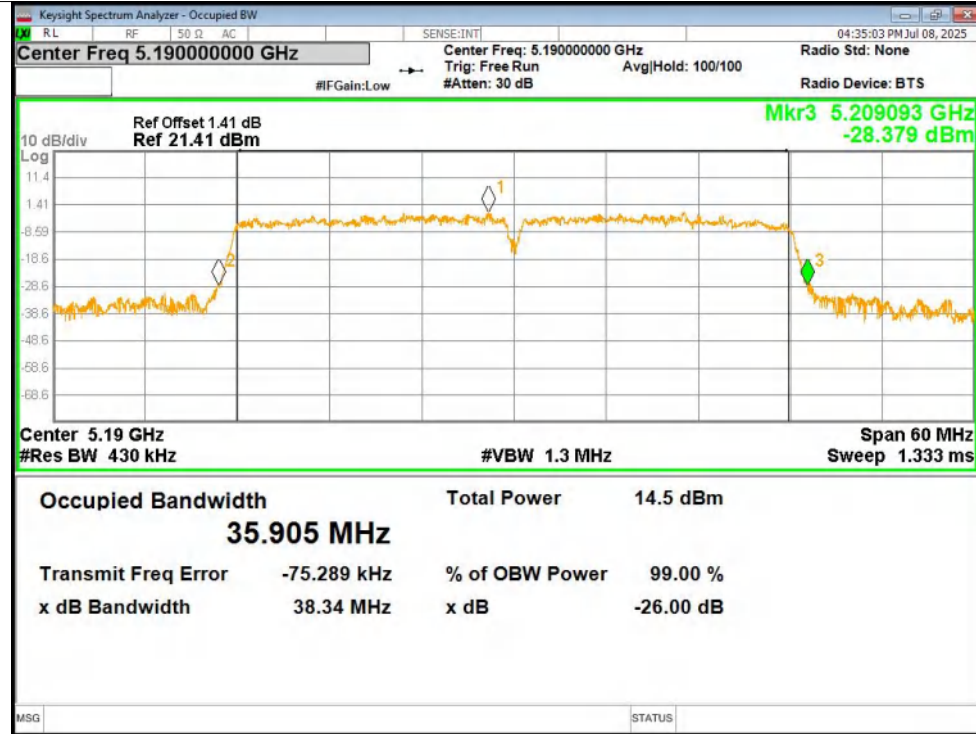
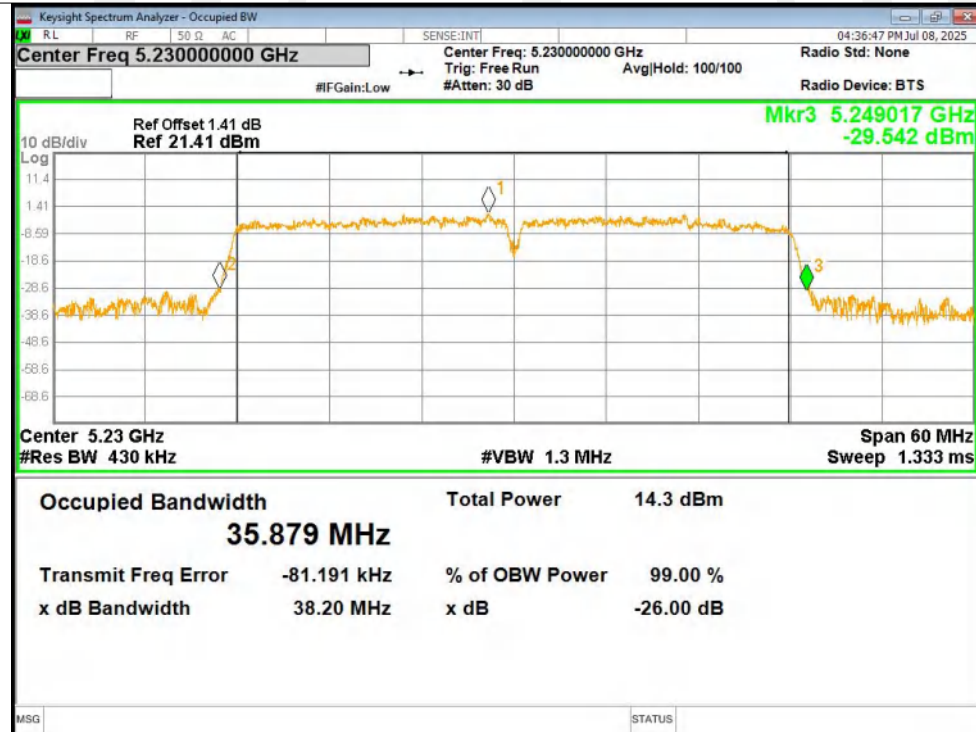


-26dB Bandwidth NVNT a 5200MHz Ant1



-26dB Bandwidth NVNT a 5240MHz Ant1**-26dB Bandwidth NVNT n20 5180MHz Ant1**

-26dB Bandwidth NVNT n20 5200MHz Ant1**-26dB Bandwidth NVNT n20 5240MHz Ant1**

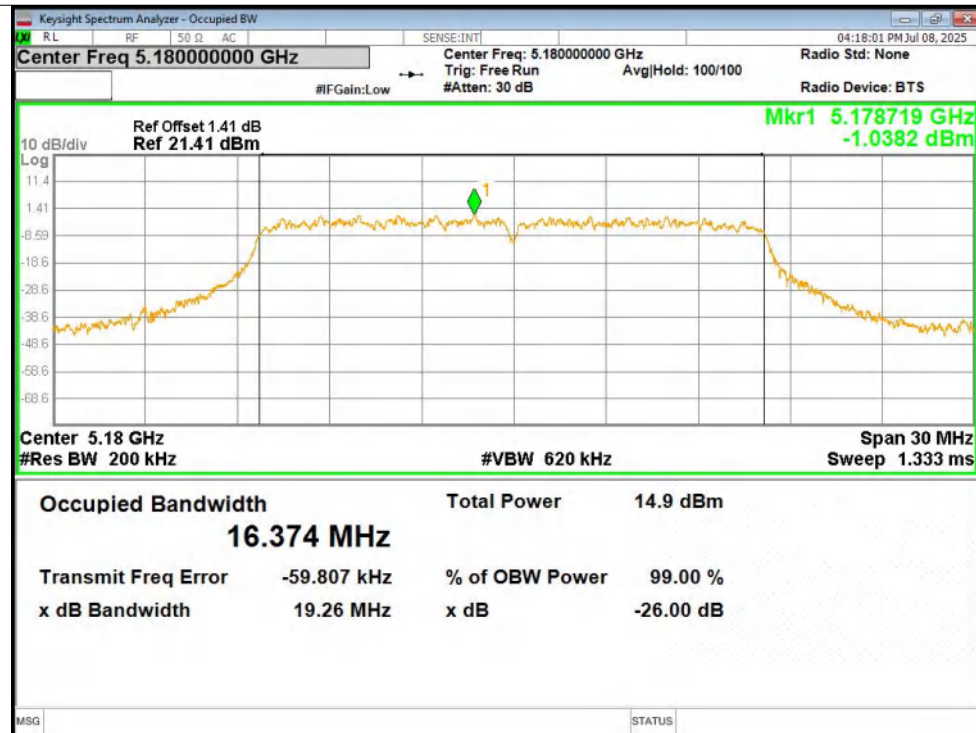
-26dB Bandwidth NVNT n40 5190MHz Ant1**-26dB Bandwidth NVNT n40 5230MHz Ant1**

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.374
NVNT	a	5200	Ant1	16.373
NVNT	a	5240	Ant1	16.39
NVNT	n20	5180	Ant1	17.592
NVNT	n20	5200	Ant1	17.594
NVNT	n20	5240	Ant1	17.594
NVNT	n40	5190	Ant1	35.923
NVNT	n40	5230	Ant1	35.886

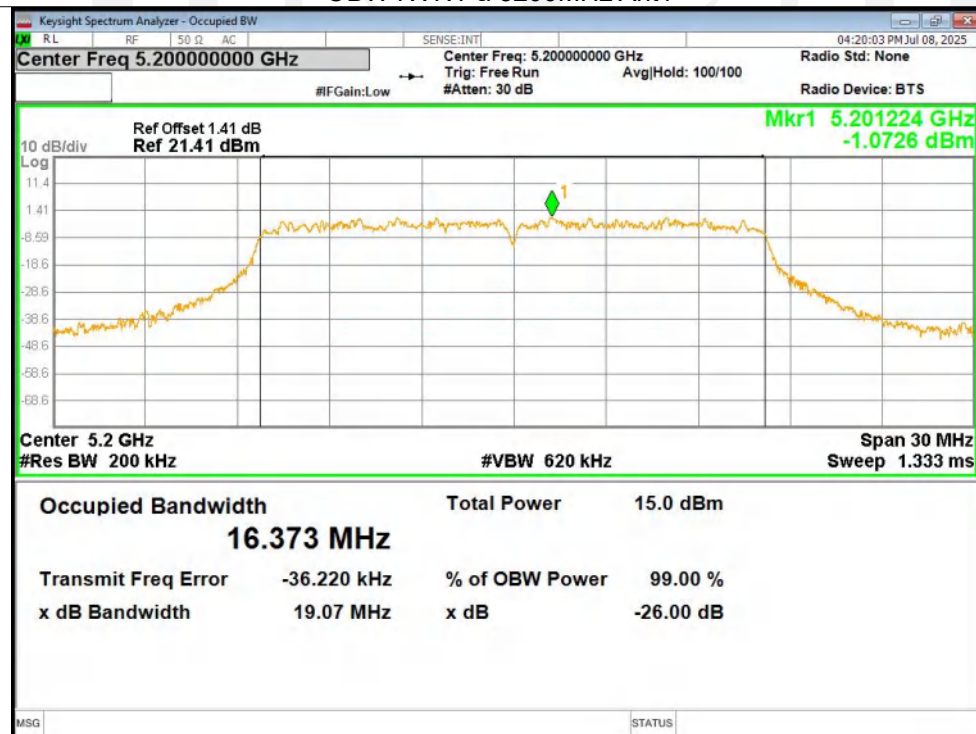


Test Graphs

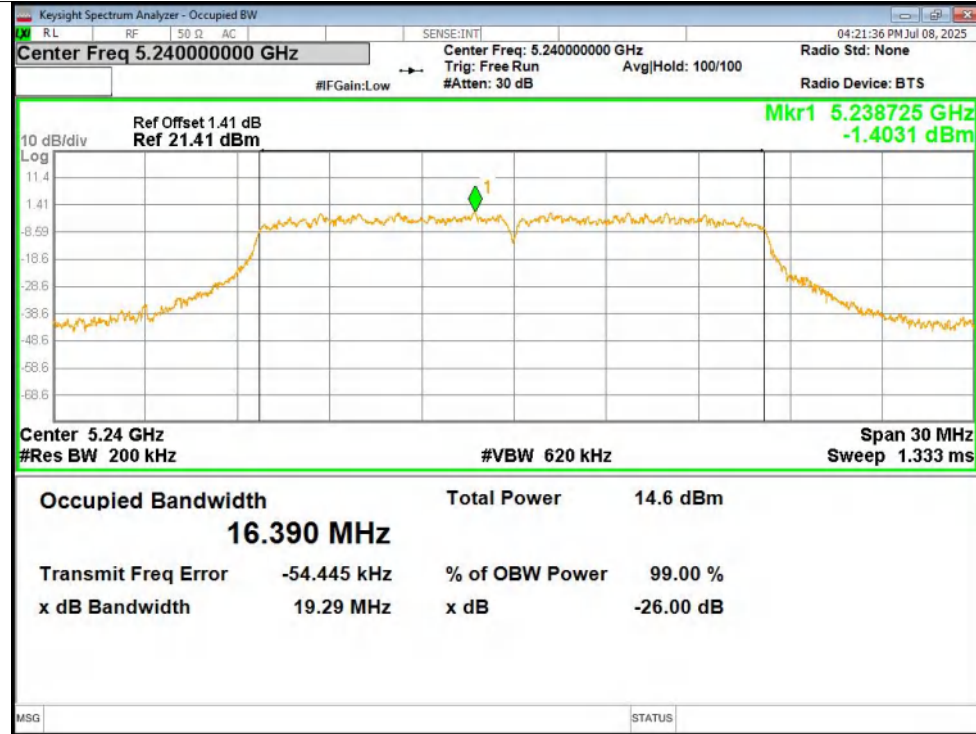
OBW NVNT a 5180MHz Ant1



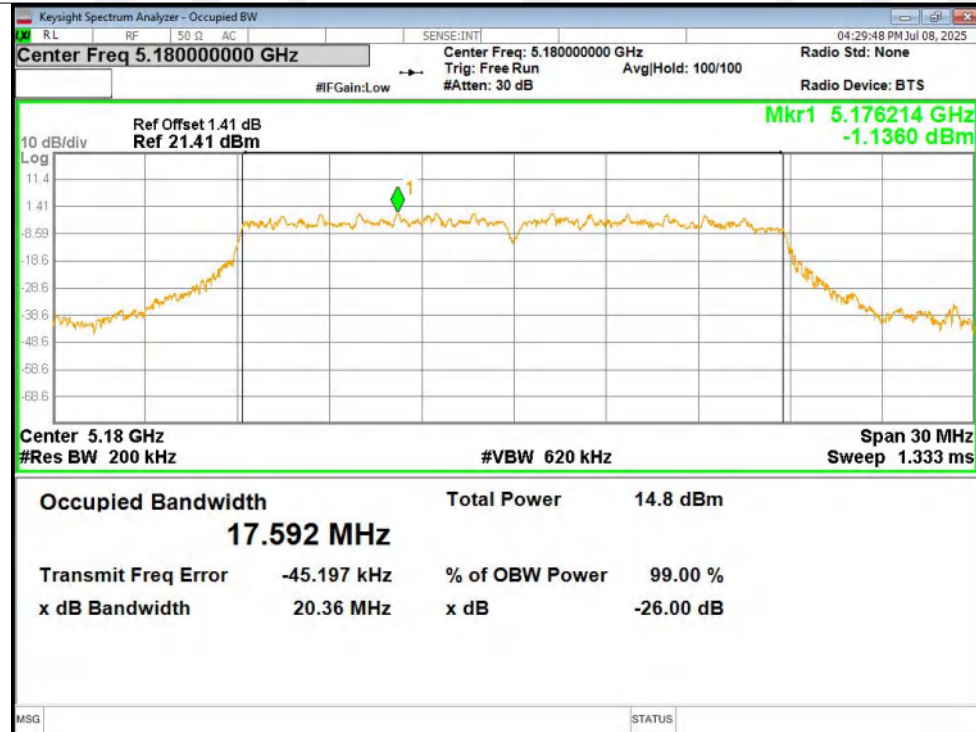
OBW NVNT a 5200MHz Ant1



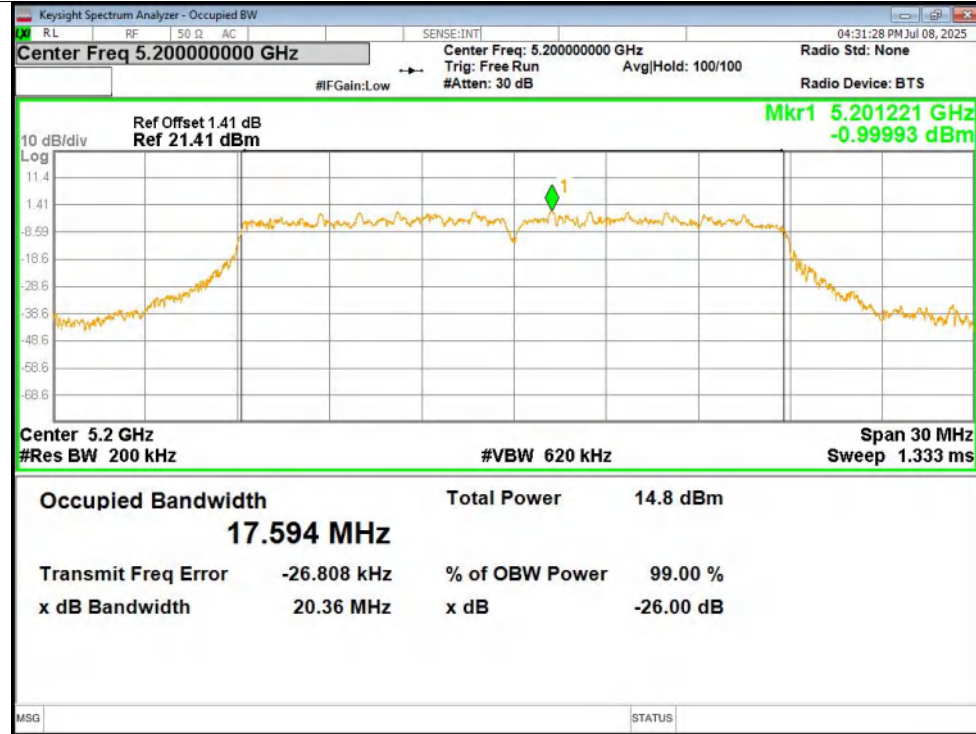
OBW NVNT a 5240MHz Ant1



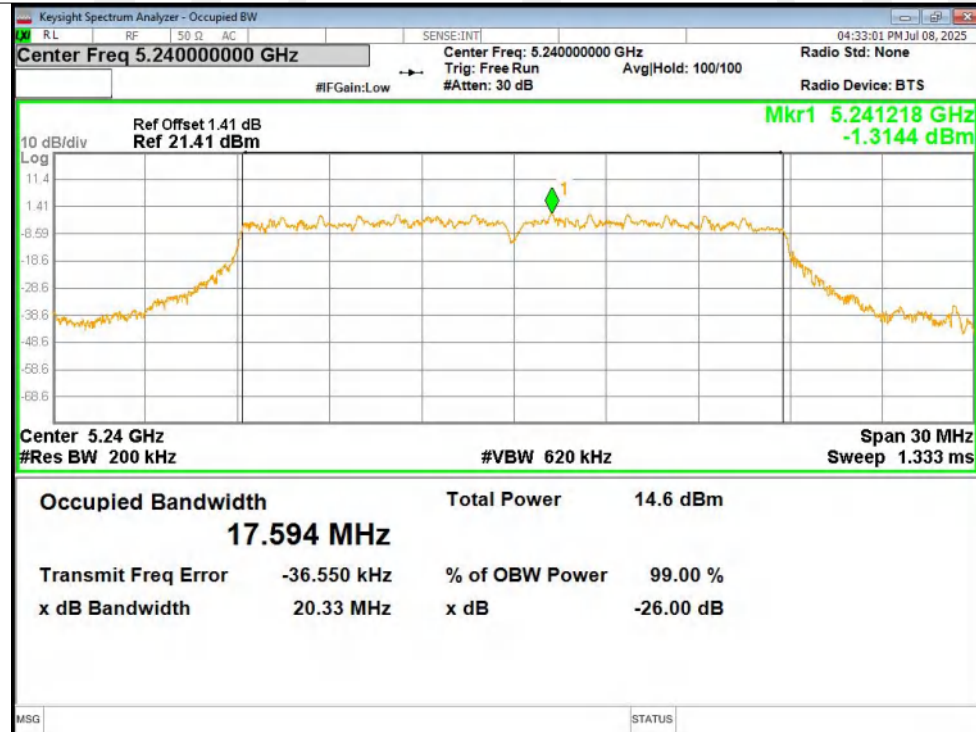
OBW NVNT n20 5180MHz Ant1



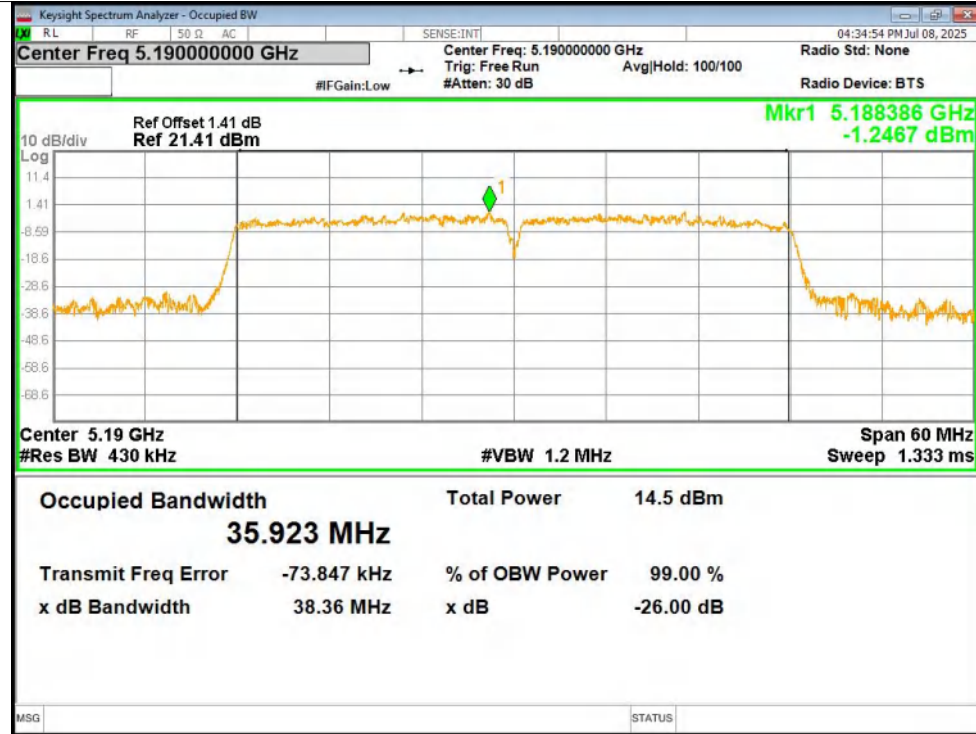
OBW NVNT n20 5200MHz Ant1



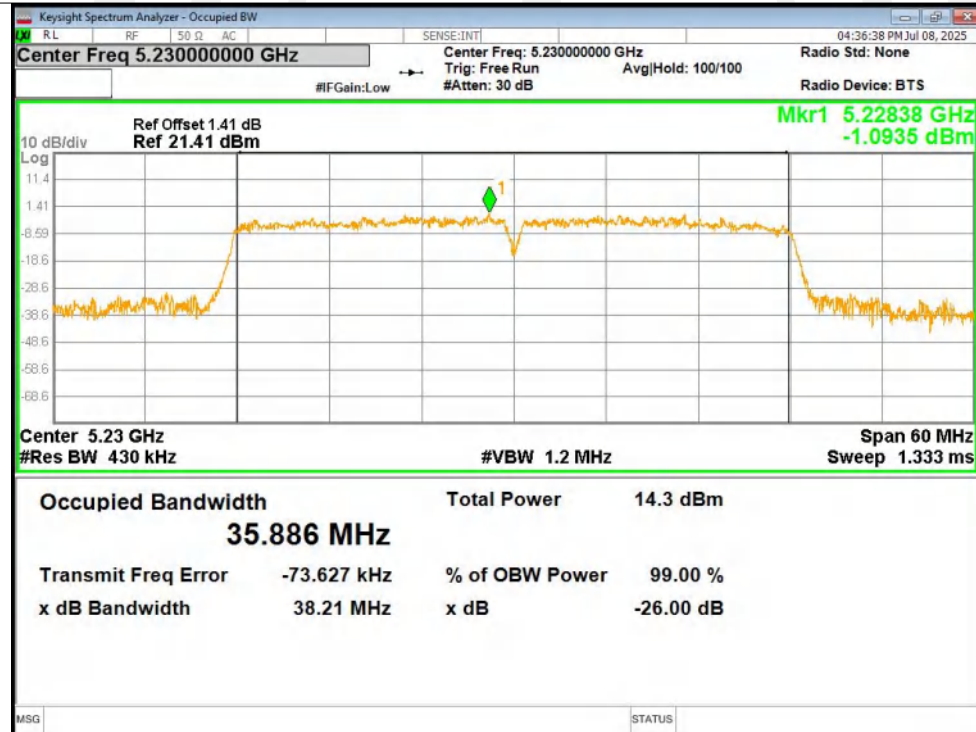
OBW NVNT n20 5240MHz Ant1



OBW NVNT n40 5190MHz Ant1

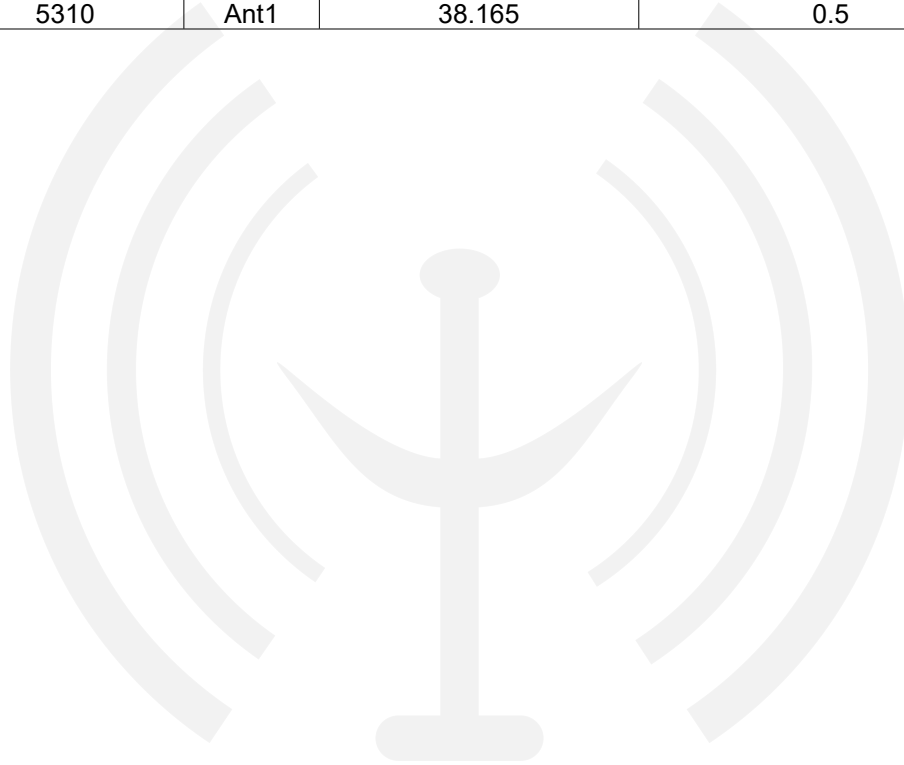


OBW NVNT n40 5230MHz Ant1



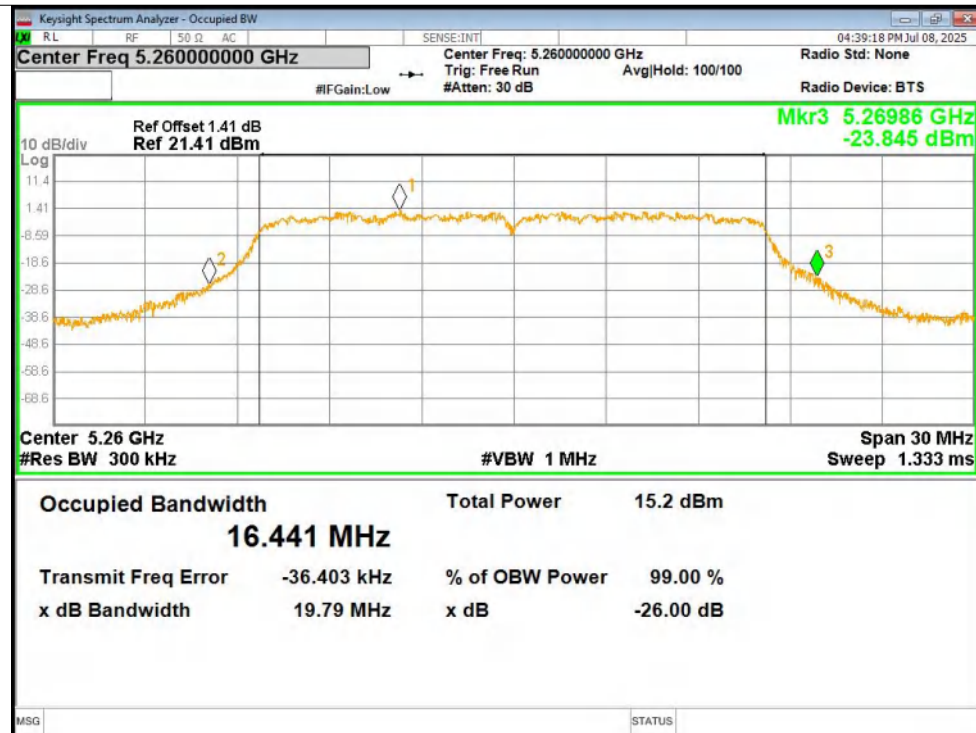
5.3GWIFI (5260MHz-5320 MHz)

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5260	Ant1	19.793	0.5	Pass
NVNT	a	5280	Ant1	19.878	0.5	Pass
NVNT	a	5320	Ant1	19.852	0.5	Pass
NVNT	n20	5260	Ant1	20.883	0.5	Pass
NVNT	n20	5280	Ant1	20.928	0.5	Pass
NVNT	n20	5320	Ant1	20.854	0.5	Pass
NVNT	n40	5270	Ant1	38.223	0.5	Pass
NVNT	n40	5310	Ant1	38.165	0.5	Pass

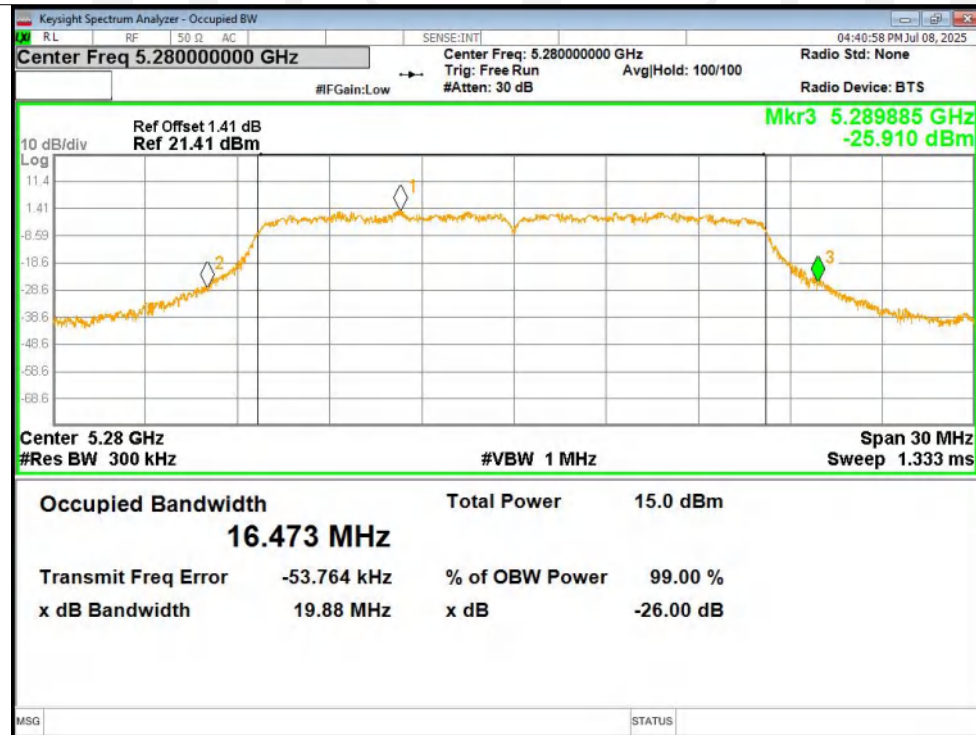


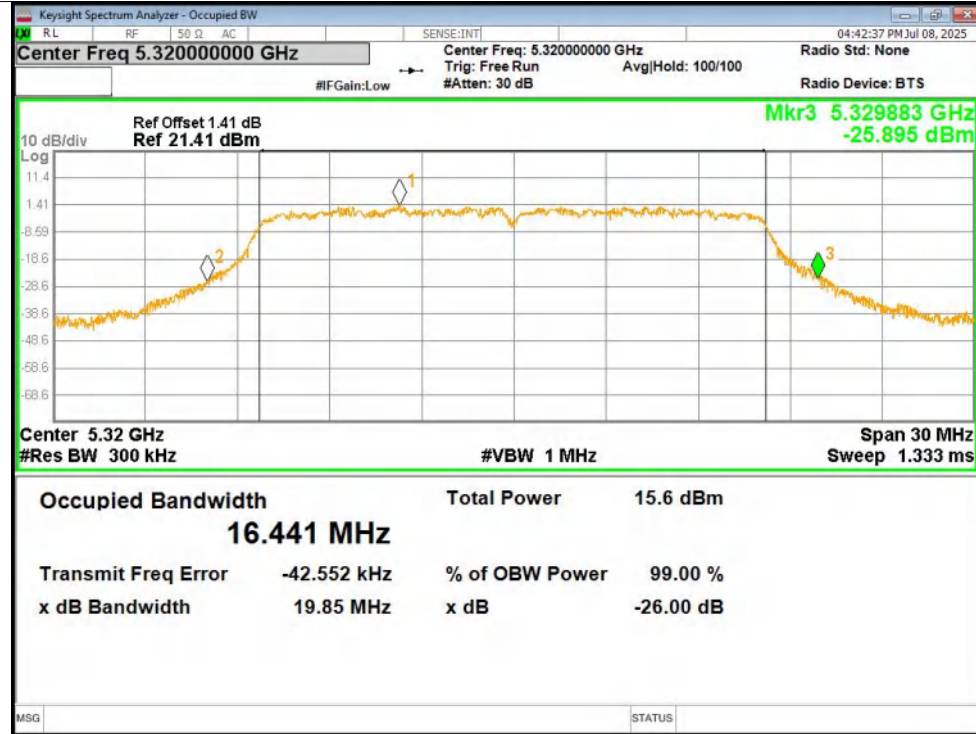
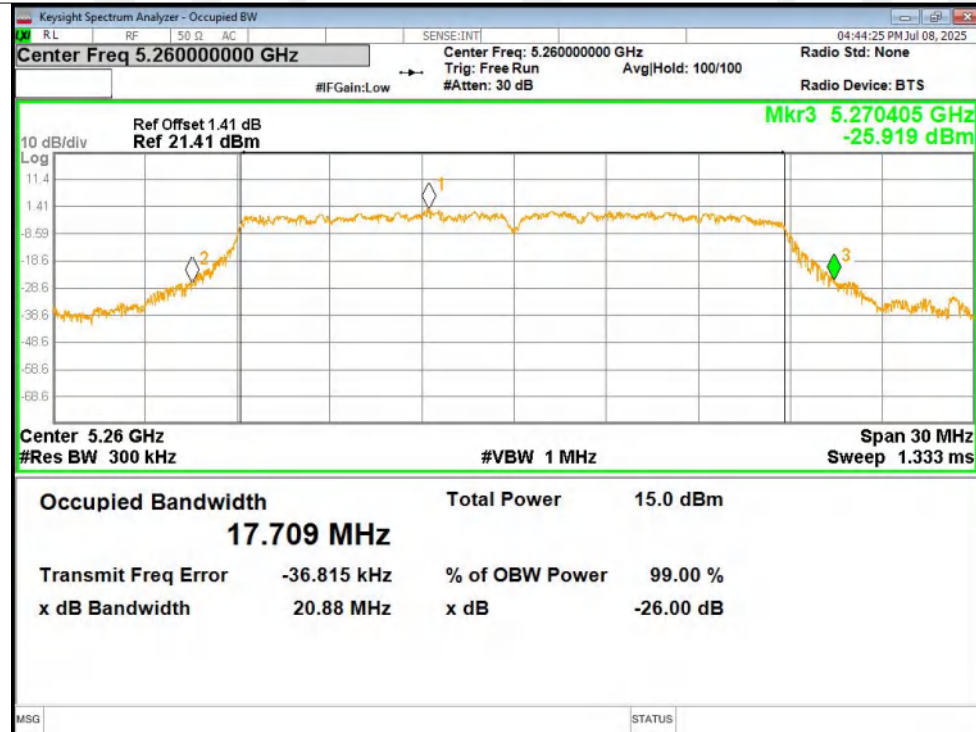
Test Graphs

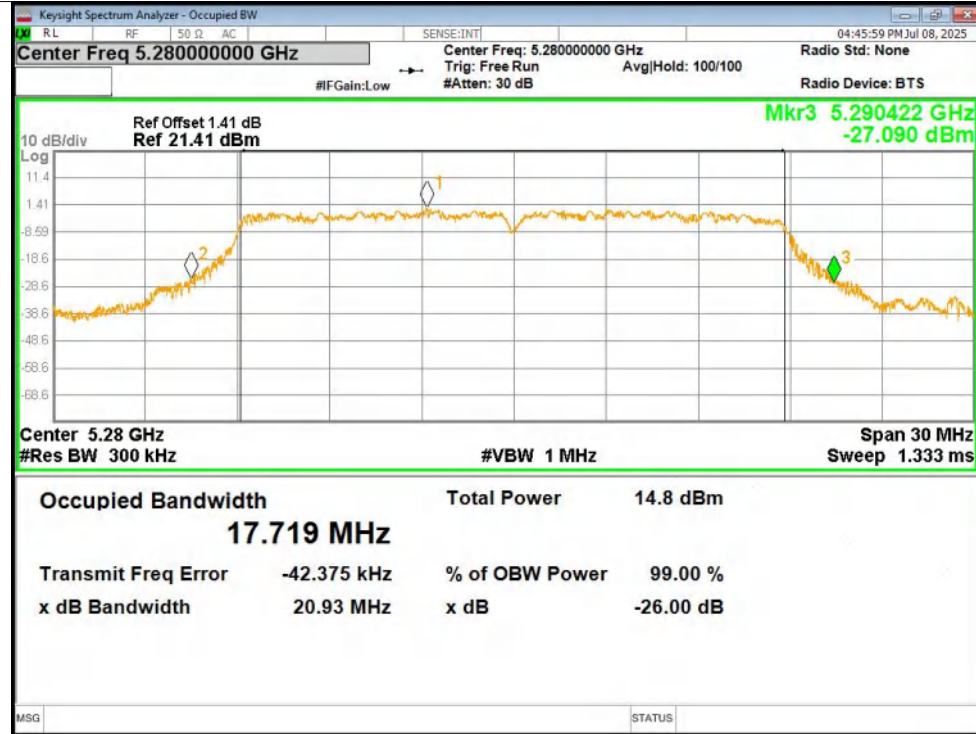
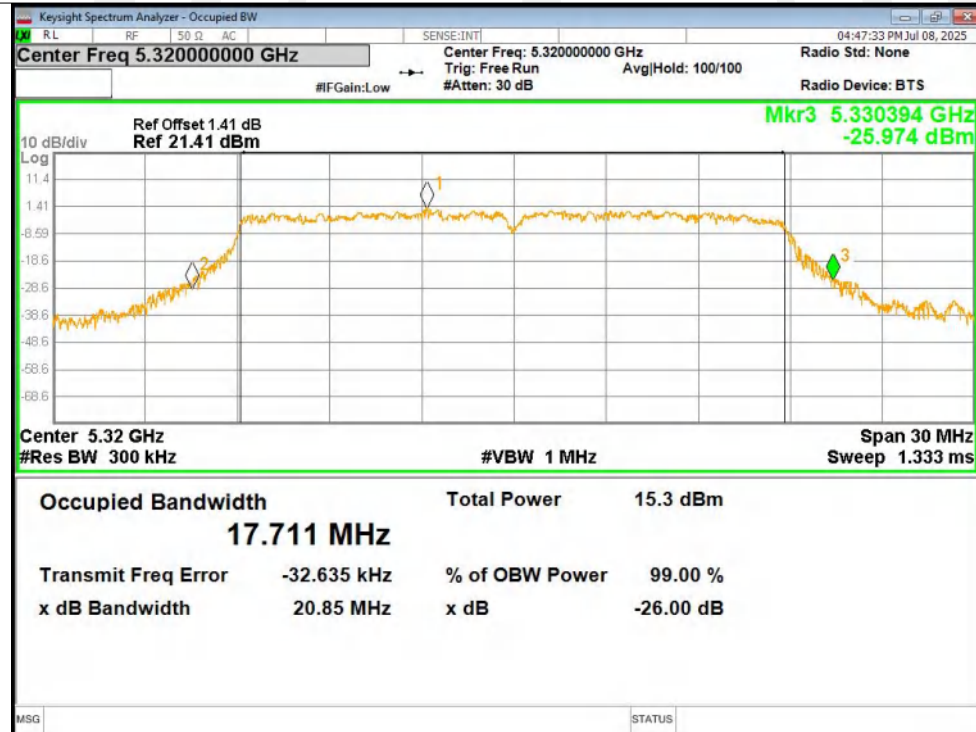
-26dB Bandwidth NVNT a 5260MHz Ant1

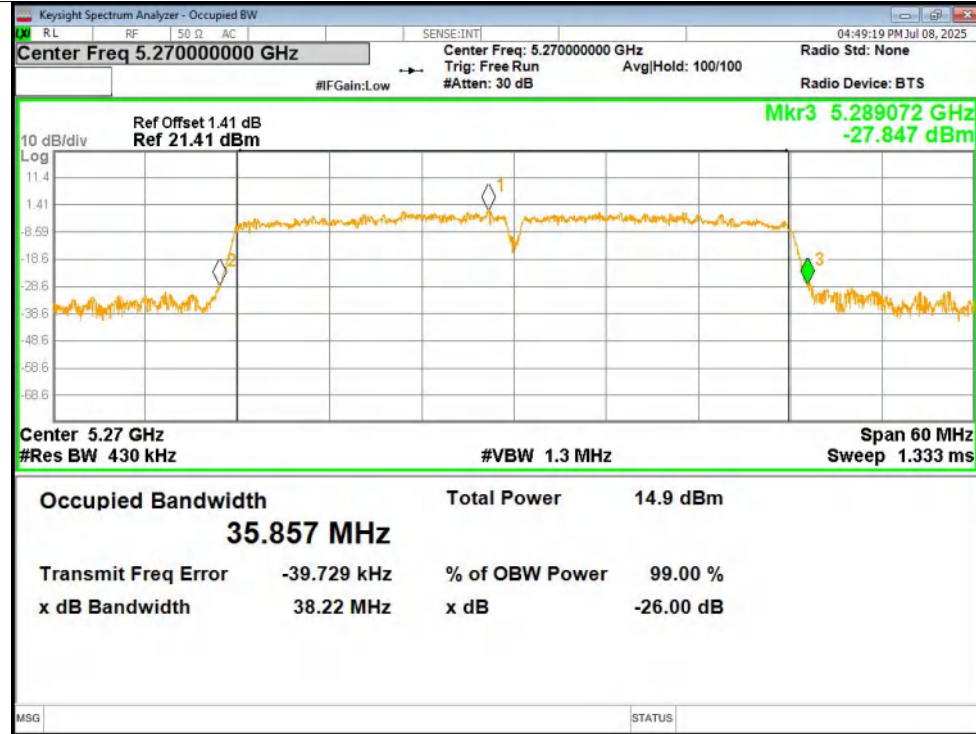
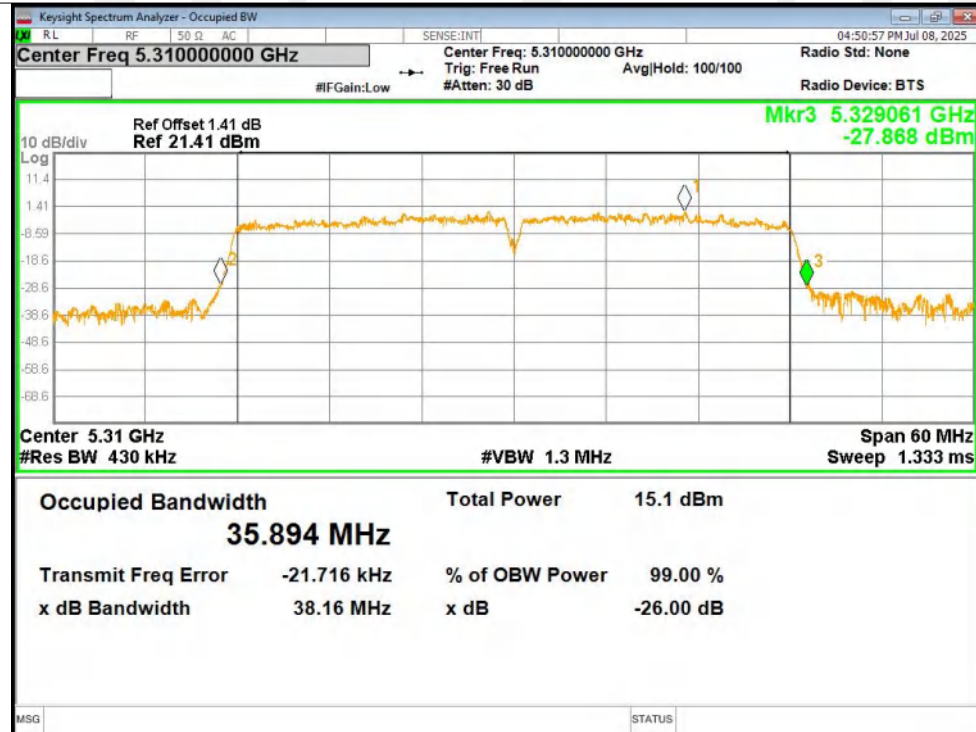


-26dB Bandwidth NVNT a 5280MHz Ant1



-26dB Bandwidth NVNT a 5320MHz Ant1**-26dB Bandwidth NVNT n20 5260MHz Ant1**

-26dB Bandwidth NVNT n20 5280MHz Ant1**-26dB Bandwidth NVNT n20 5320MHz Ant1**

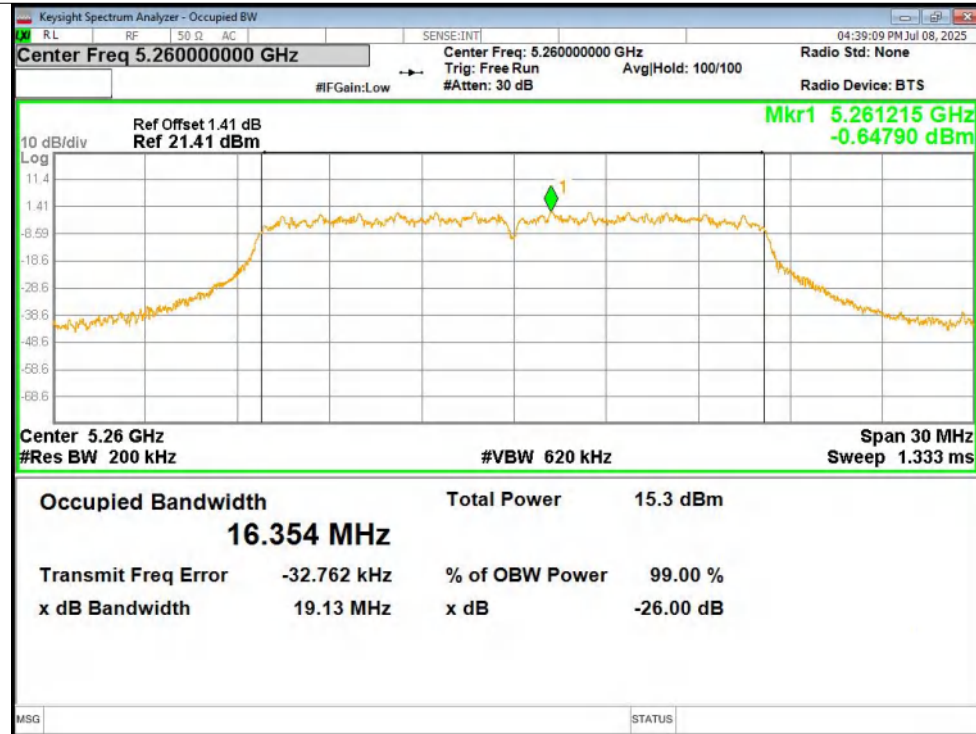
-26dB Bandwidth NVNT n40 5270MHz Ant1**-26dB Bandwidth NVNT n40 5310MHz Ant1**

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5260	Ant1	16.354
NVNT	a	5280	Ant1	16.384
NVNT	a	5320	Ant1	16.362
NVNT	n20	5260	Ant1	17.613
NVNT	n20	5280	Ant1	17.593
NVNT	n20	5320	Ant1	17.627
NVNT	n40	5270	Ant1	35.856
NVNT	n40	5310	Ant1	35.872

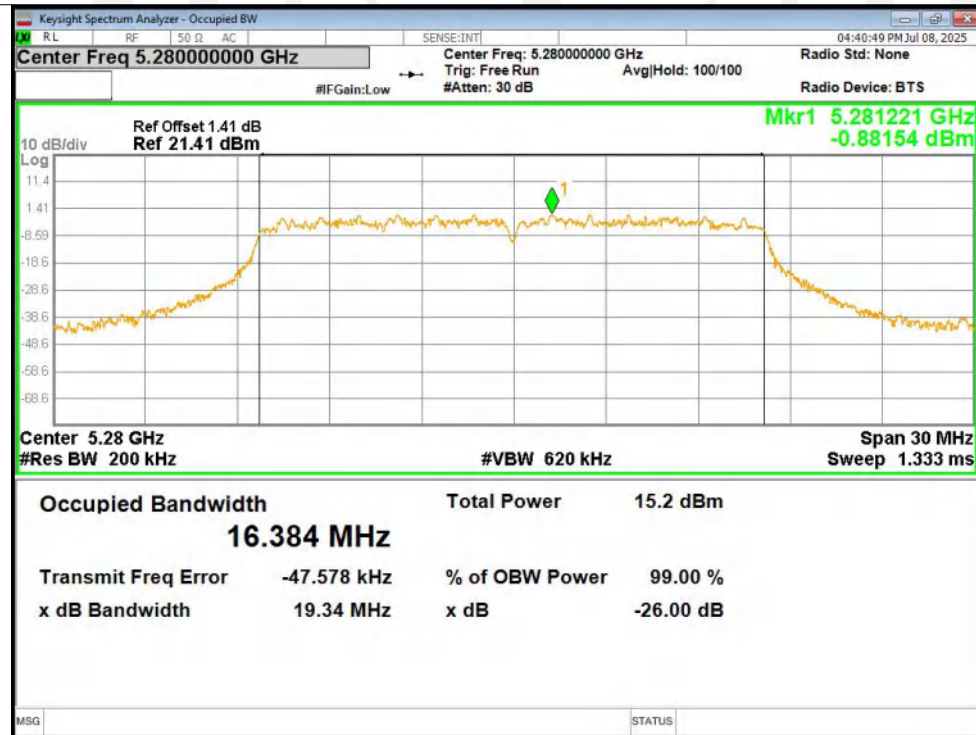


Test Graphs

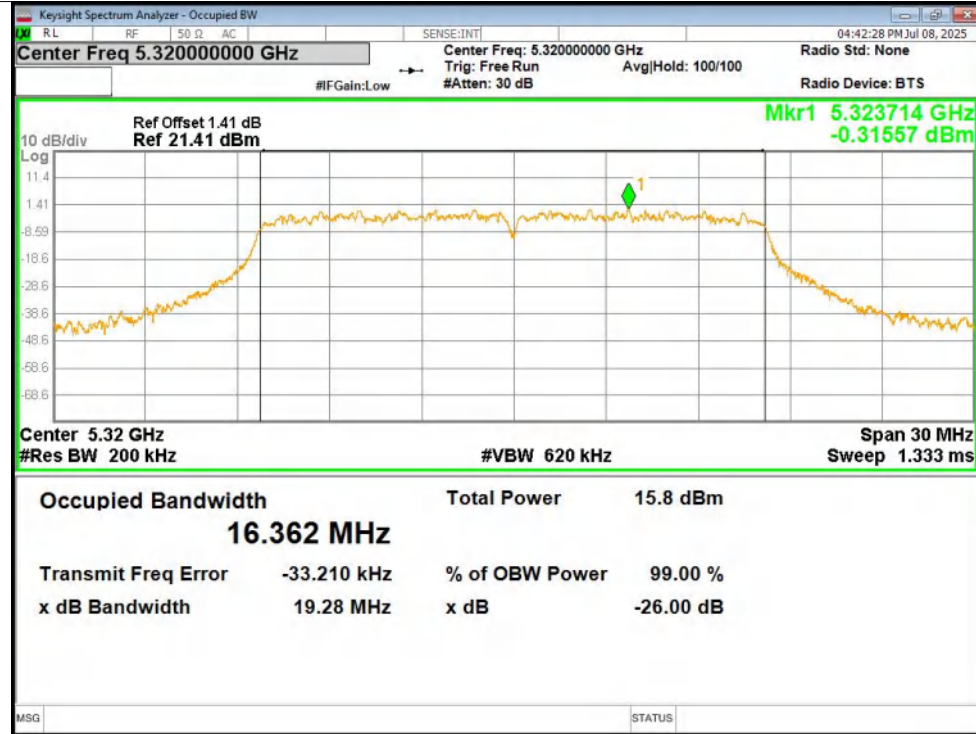
OBW NVNT a 5260MHz Ant1



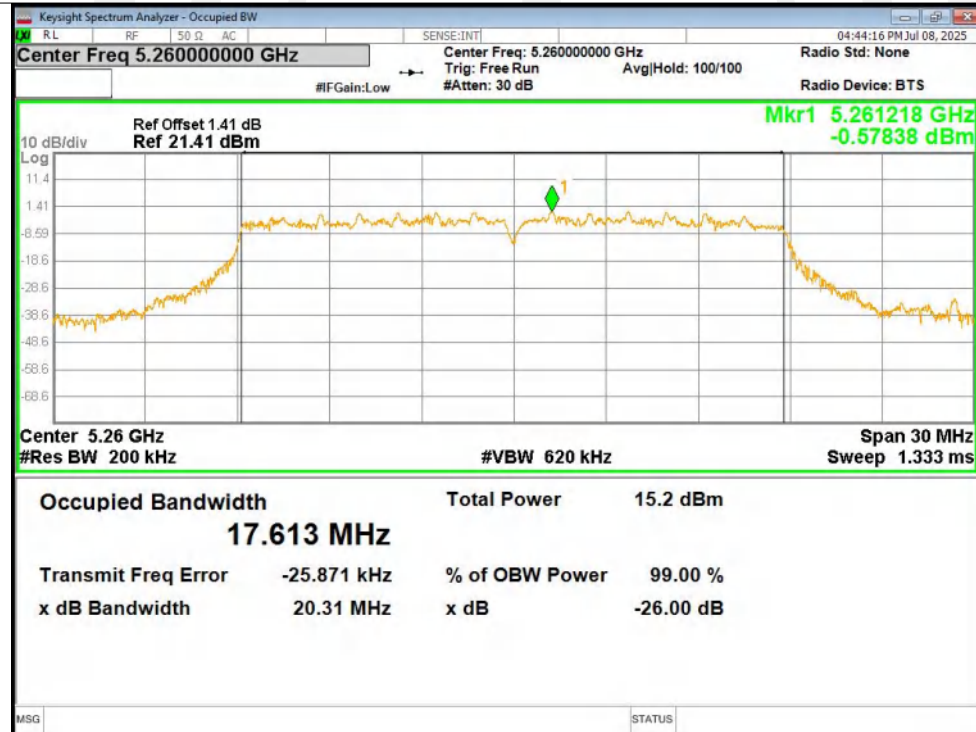
OBW NVNT a 5280MHz Ant1



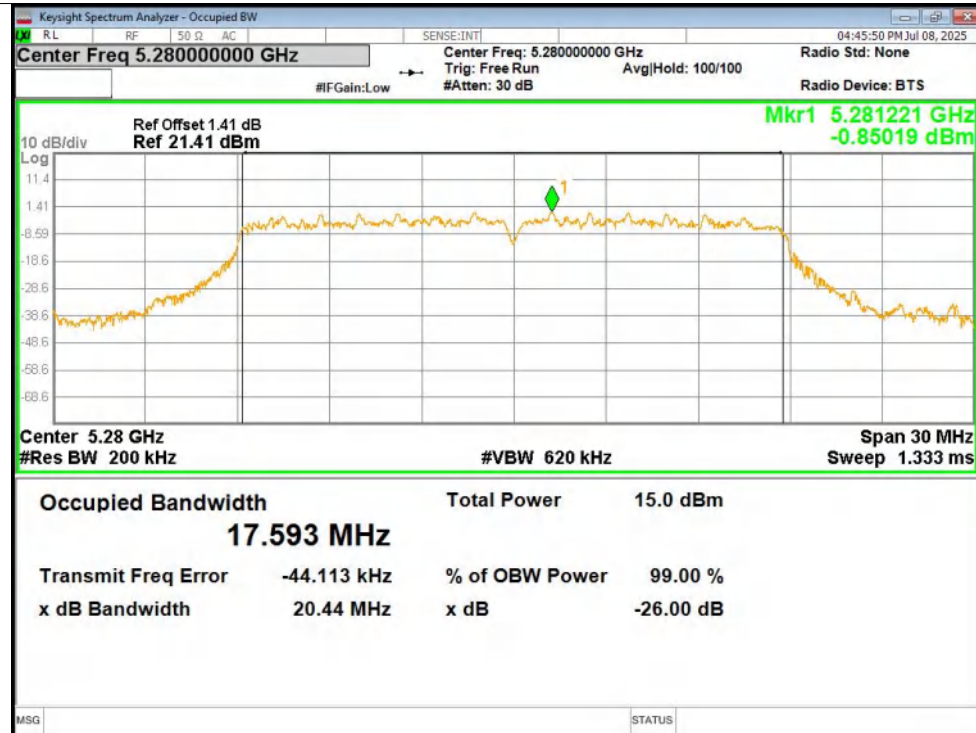
OBW NVNT a 5320MHz Ant1



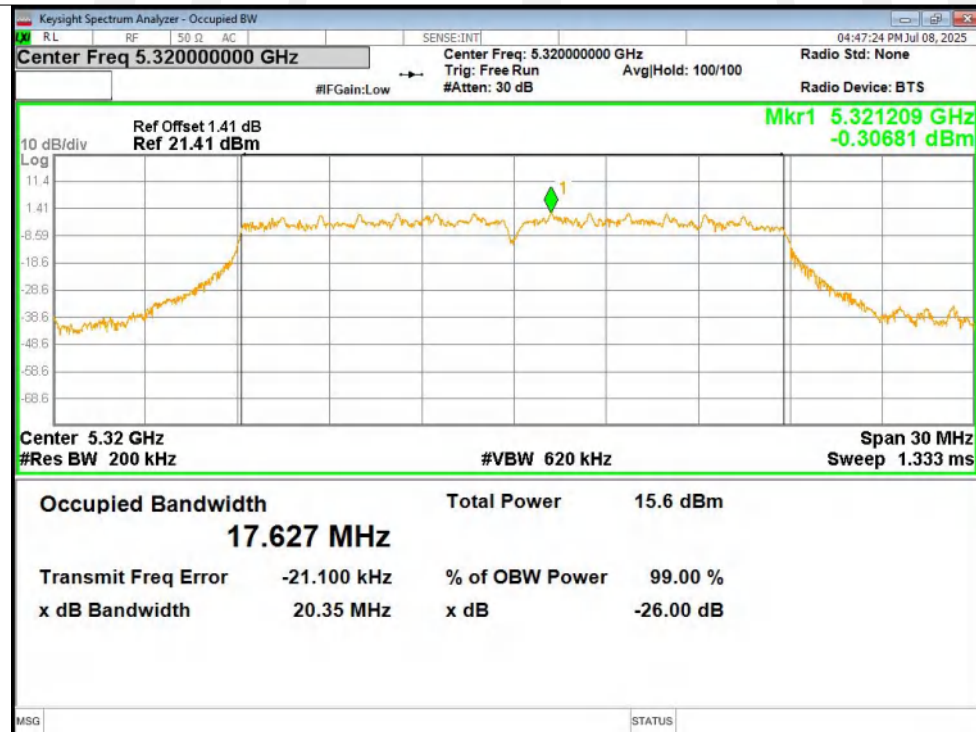
OBW NVNT n20 5260MHz Ant1



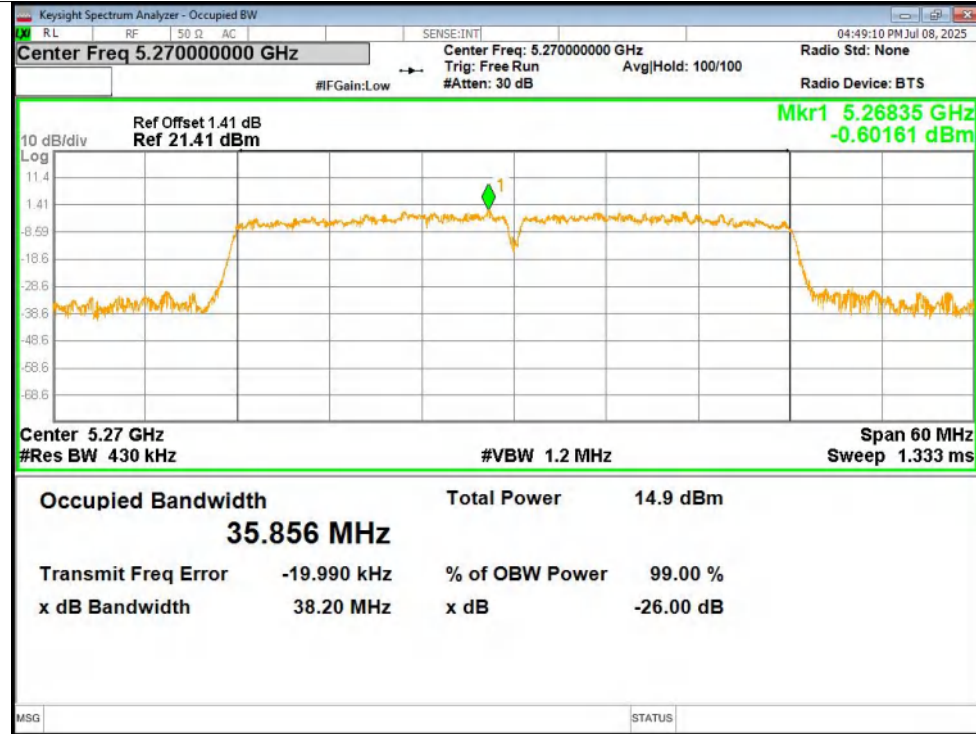
OBW NVNT n20 5280MHz Ant1



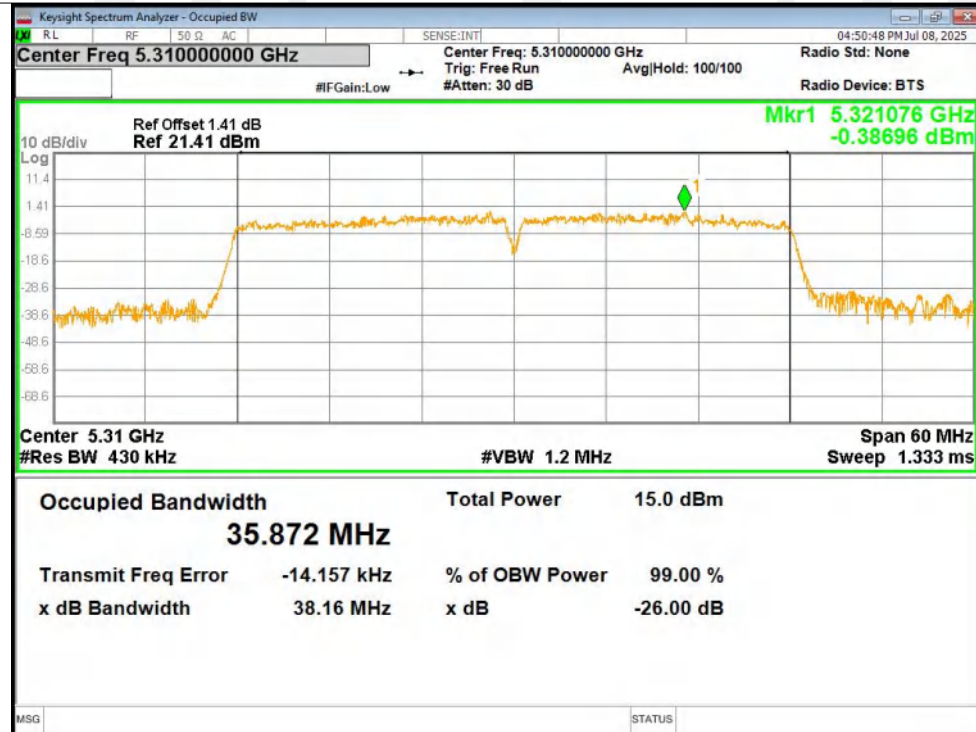
OBW NVNT n20 5320MHz Ant1



OBW NVNT n40 5270MHz Ant1

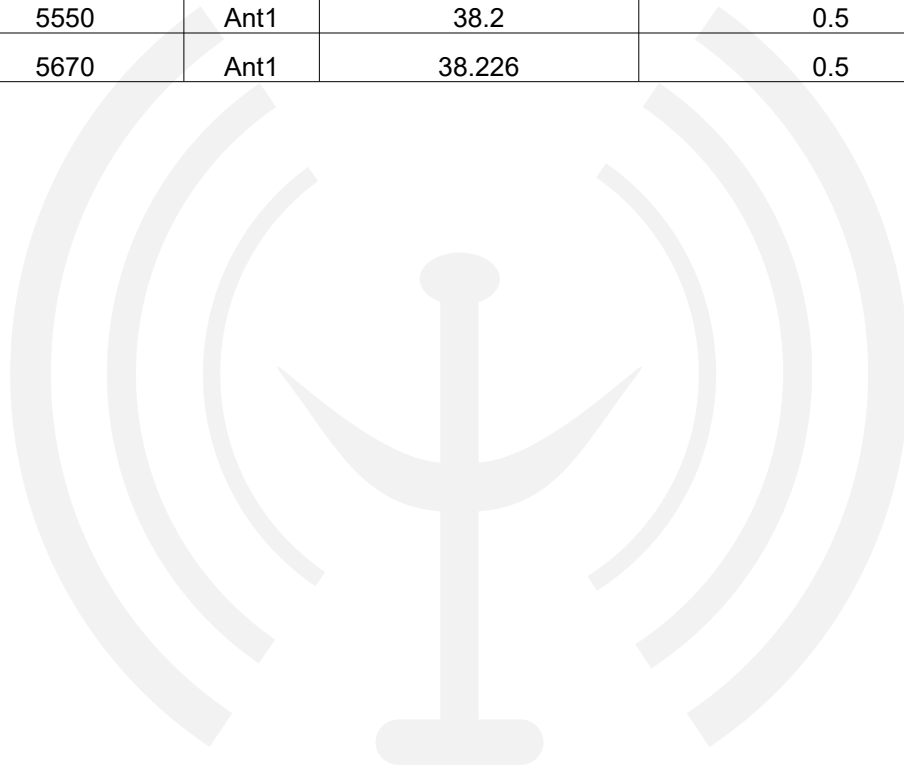


OBW NVNT n40 5310MHz Ant1



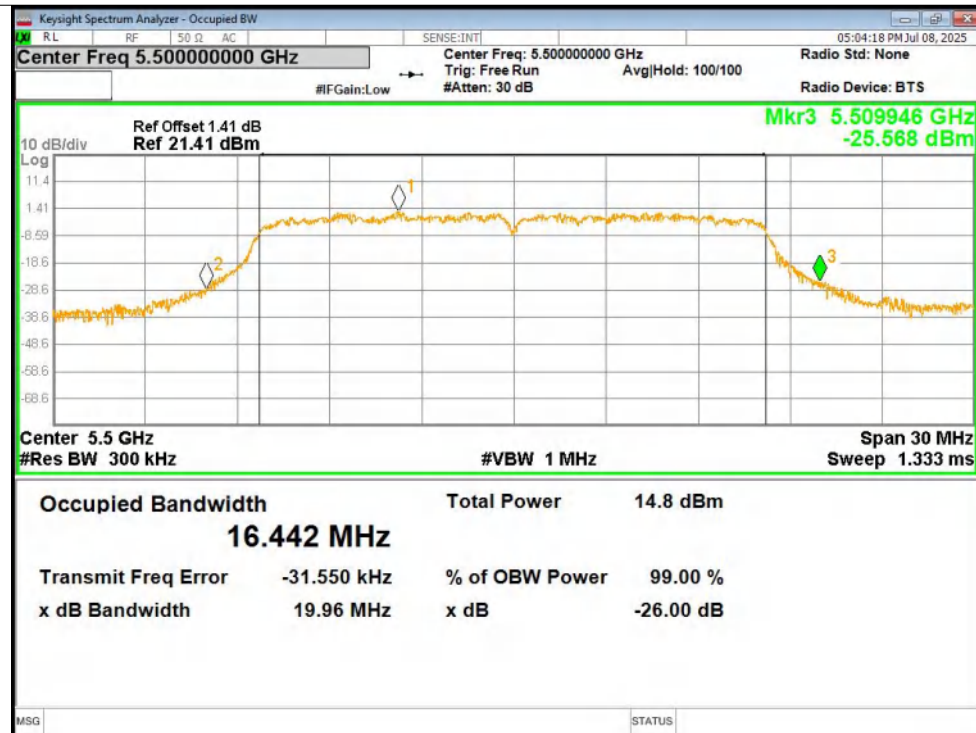
5.6GWIFI (5500MHz-5700MHz)

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5500	Ant1	19.956	0.5	Pass
NVNT	a	5600	Ant1	19.858	0.5	Pass
NVNT	a	5700	Ant1	19.755	0.5	Pass
NVNT	n20	5500	Ant1	21.554	0.5	Pass
NVNT	n20	5600	Ant1	21.047	0.5	Pass
NVNT	n20	5700	Ant1	21.037	0.5	Pass
NVNT	n40	5510	Ant1	38.212	0.5	Pass
NVNT	n40	5550	Ant1	38.2	0.5	Pass
NVNT	n40	5670	Ant1	38.226	0.5	Pass

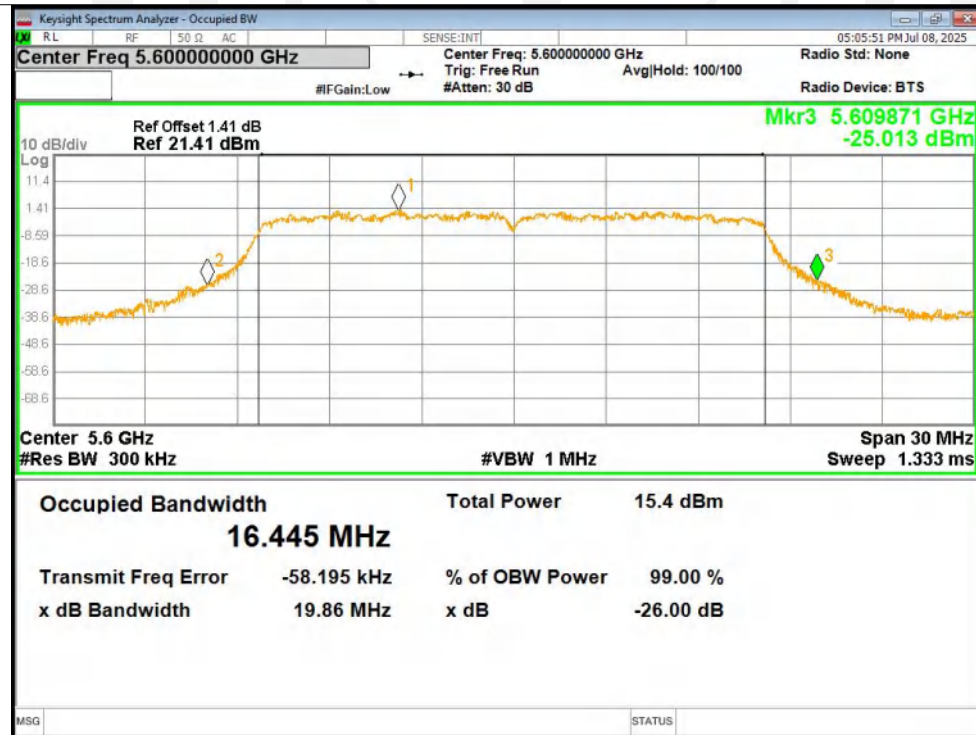


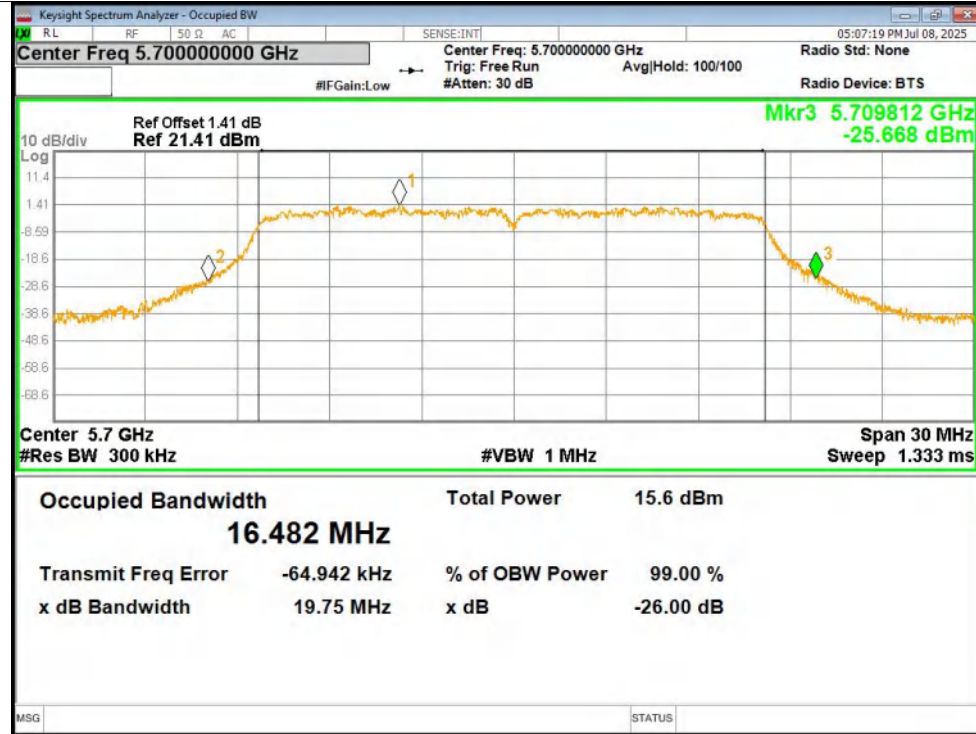
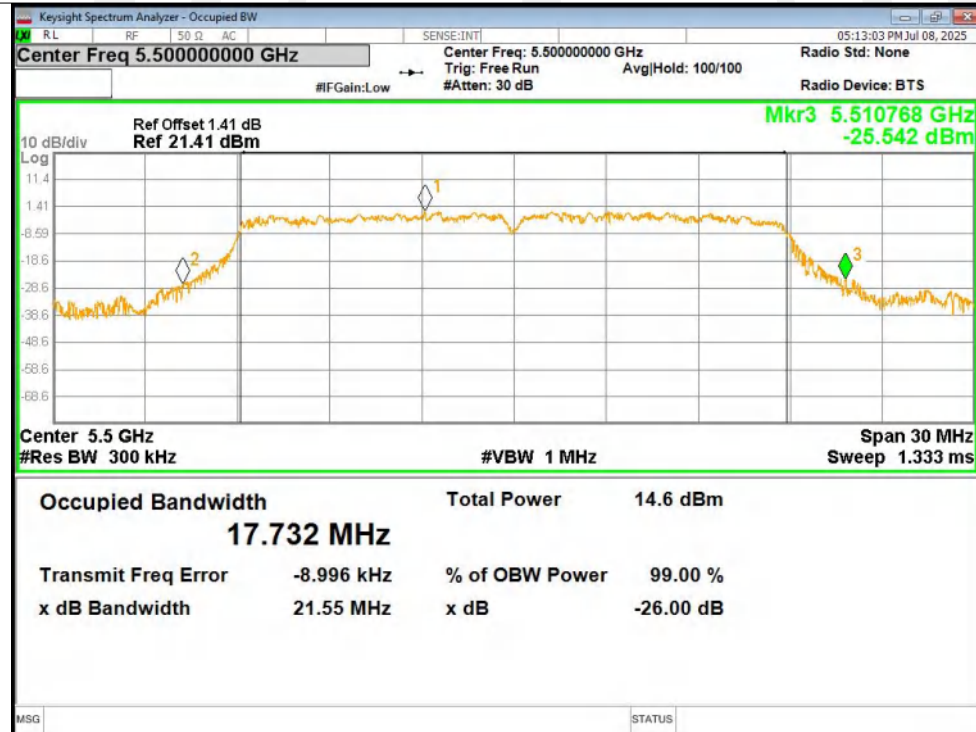
Test Graphs

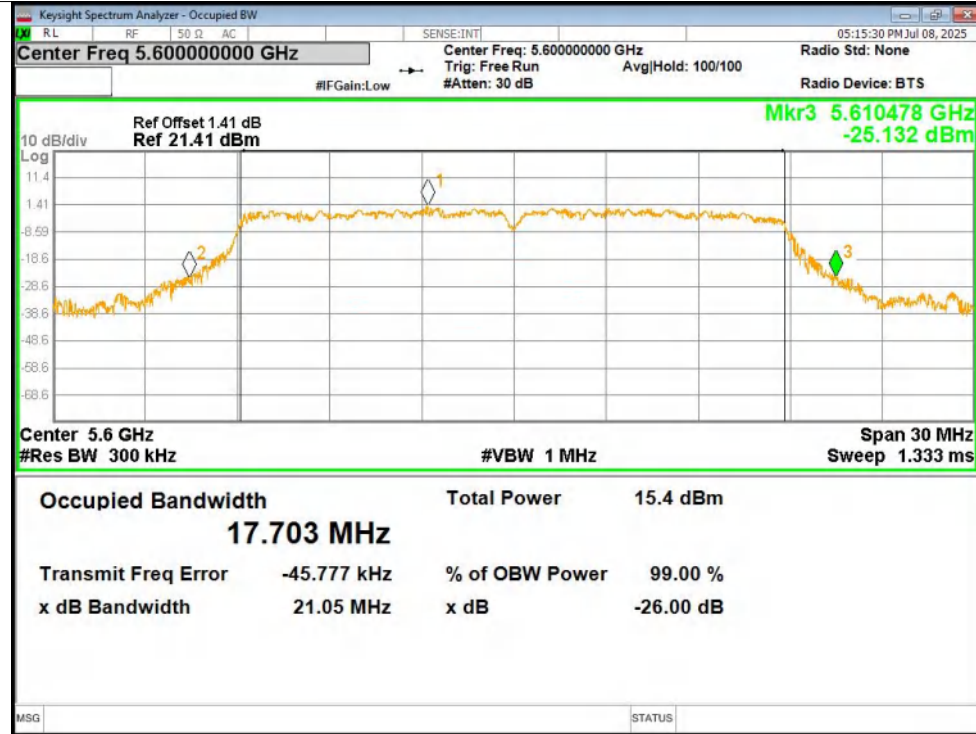
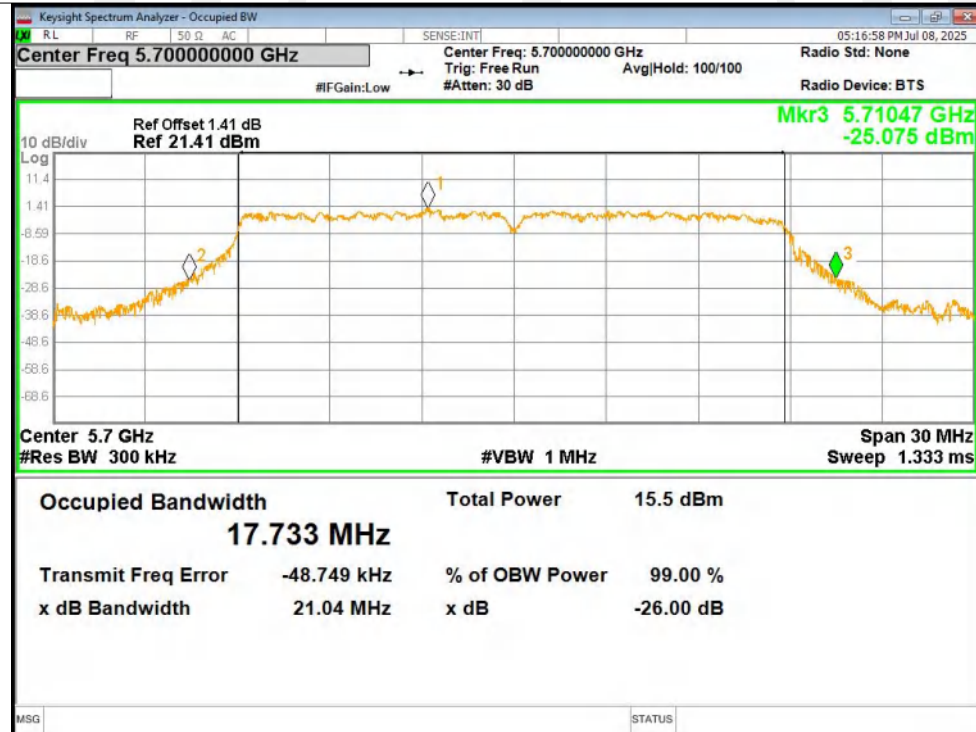
-26dB Bandwidth NVNT a 5500MHz Ant1

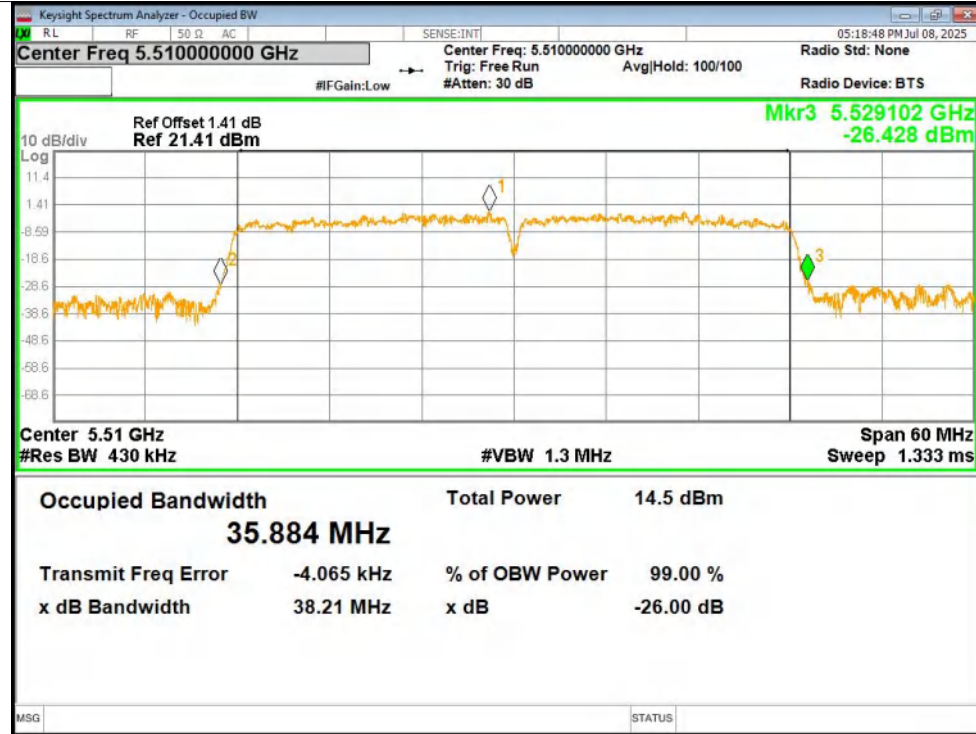
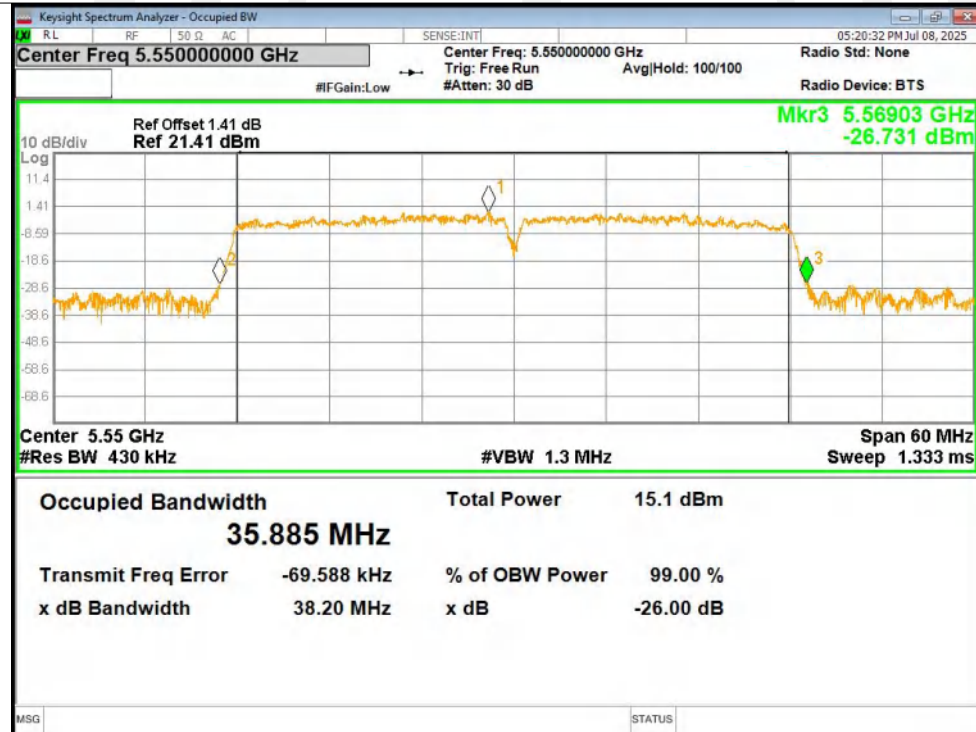


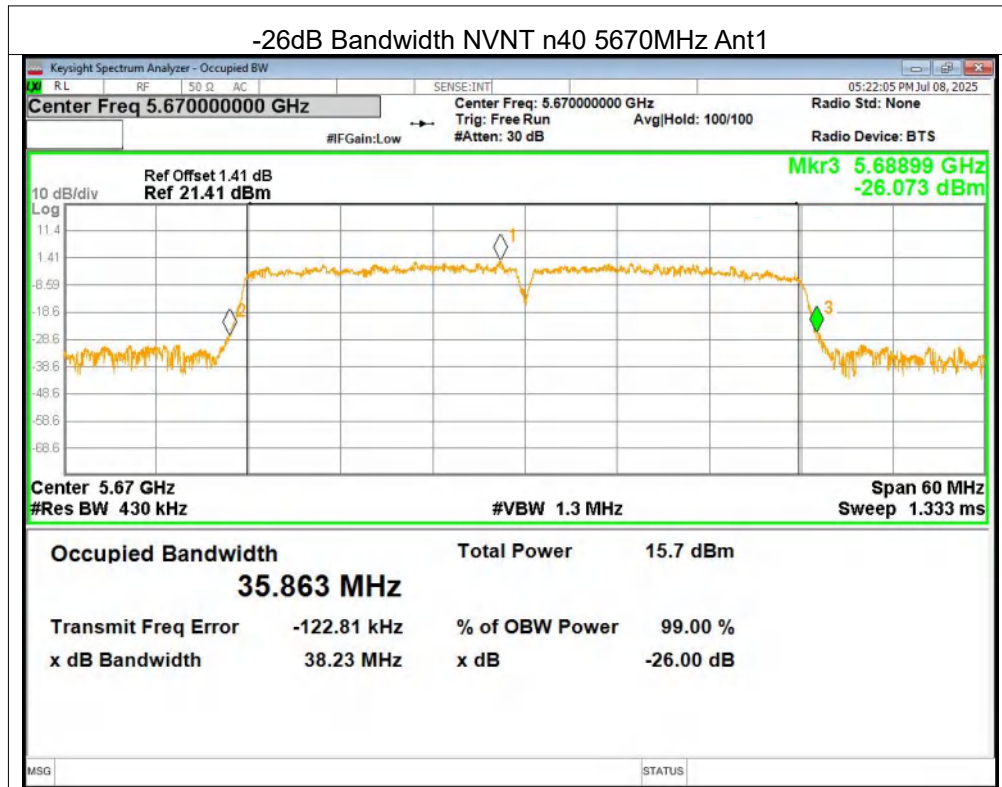
-26dB Bandwidth NVNT a 5600MHz Ant1



-26dB Bandwidth NVNT a 5700MHz Ant1**-26dB Bandwidth NVNT n20 5500MHz Ant1**

-26dB Bandwidth NVNT n20 5600MHz Ant1**-26dB Bandwidth NVNT n20 5700MHz Ant1**

-26dB Bandwidth NVNT n40 5510MHz Ant1**-26dB Bandwidth NVNT n40 5550MHz Ant1**

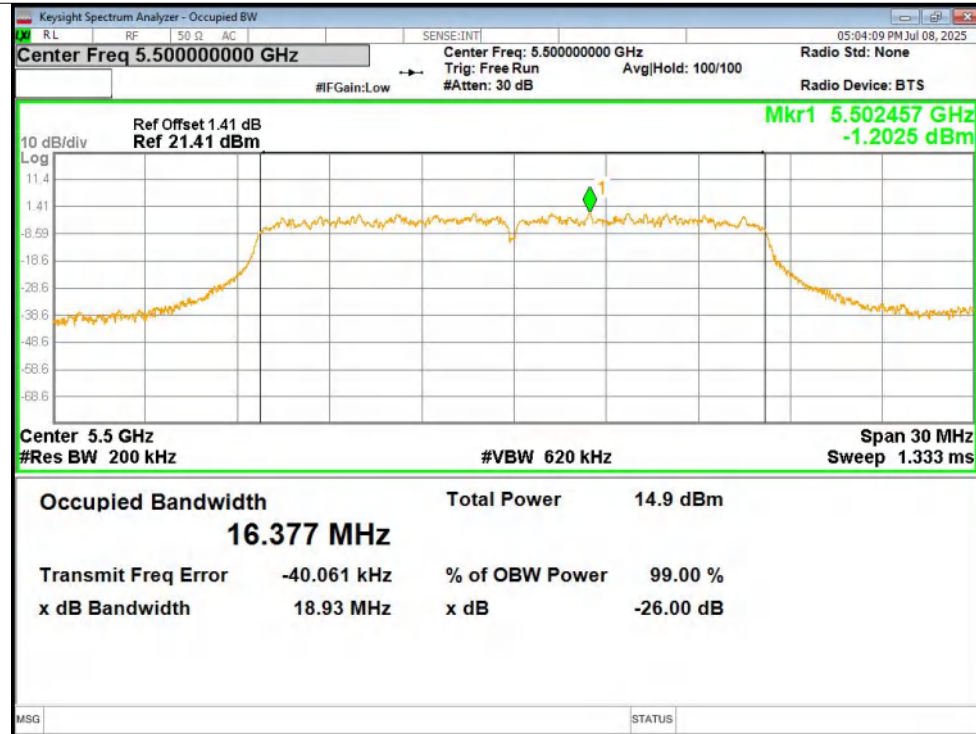


Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5500	Ant1	16.377
NVNT	a	5600	Ant1	16.372
NVNT	a	5700	Ant1	16.388
NVNT	n20	5500	Ant1	17.611
NVNT	n20	5600	Ant1	17.618
NVNT	n20	5700	Ant1	17.647
NVNT	n40	5510	Ant1	35.906
NVNT	n40	5550	Ant1	35.881
NVNT	n40	5670	Ant1	35.855

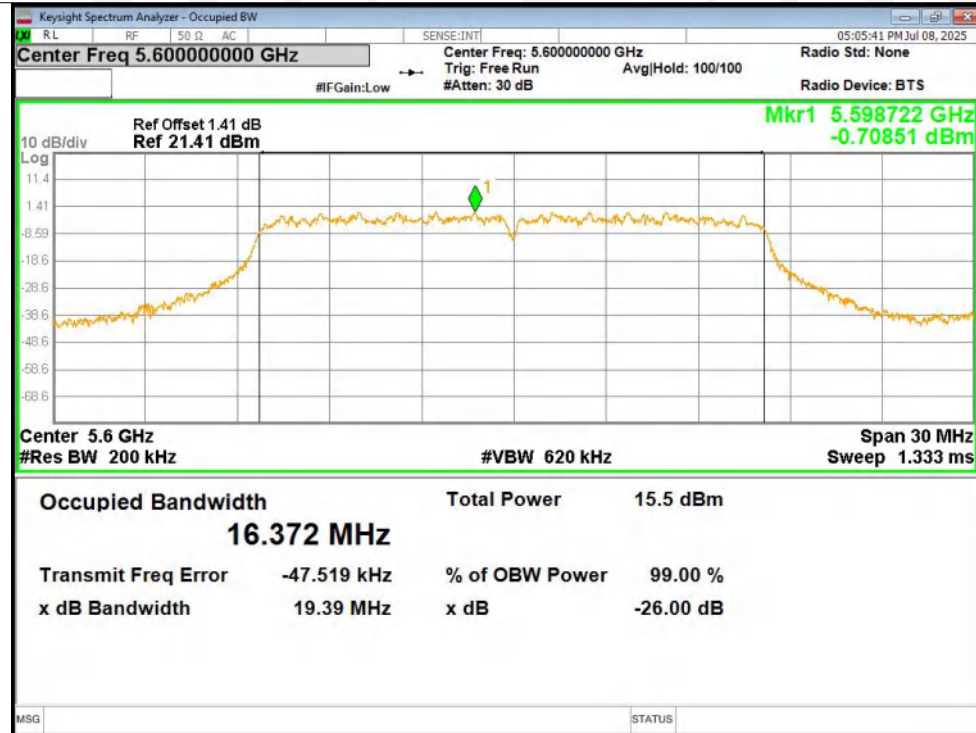


Test Graphs

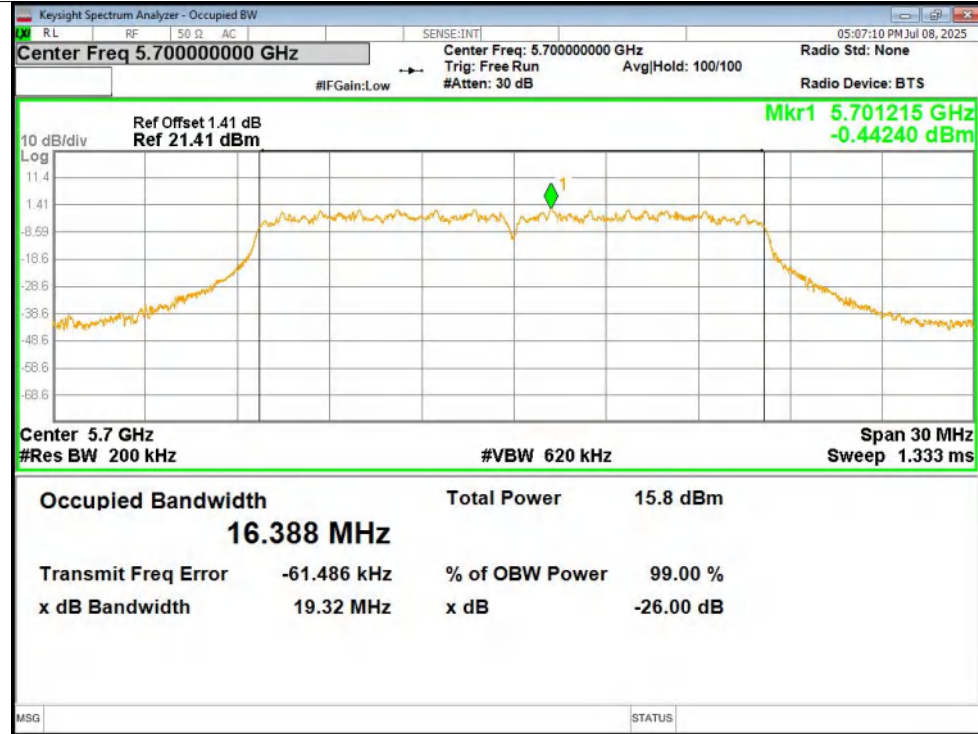
OBW NVNT a 5500MHz Ant1



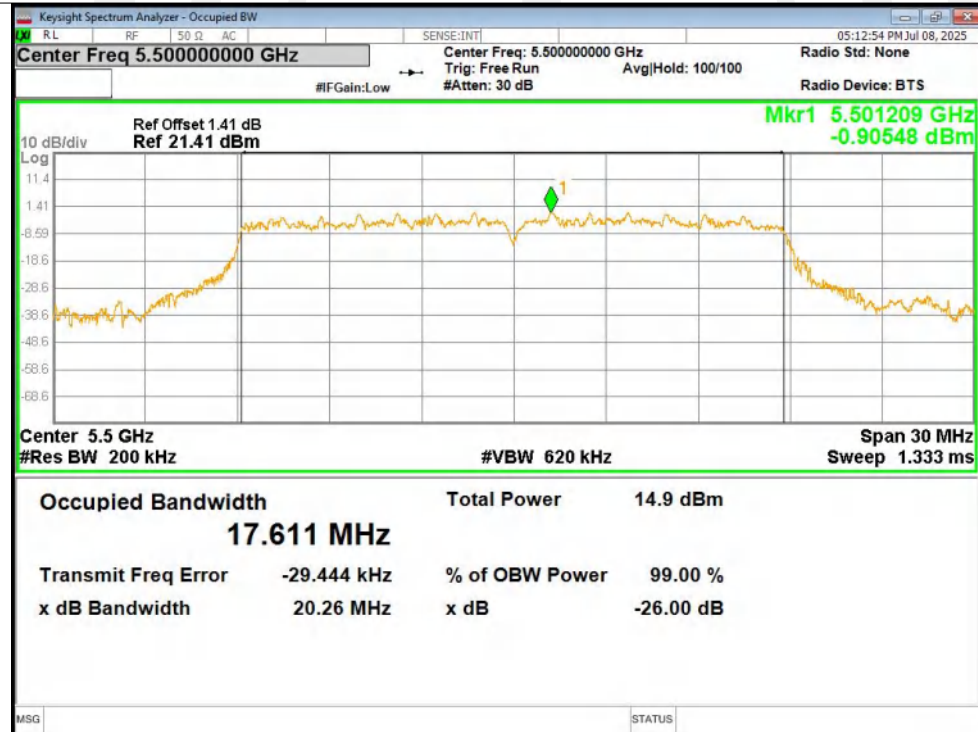
OBW NVNT a 5600MHz Ant1



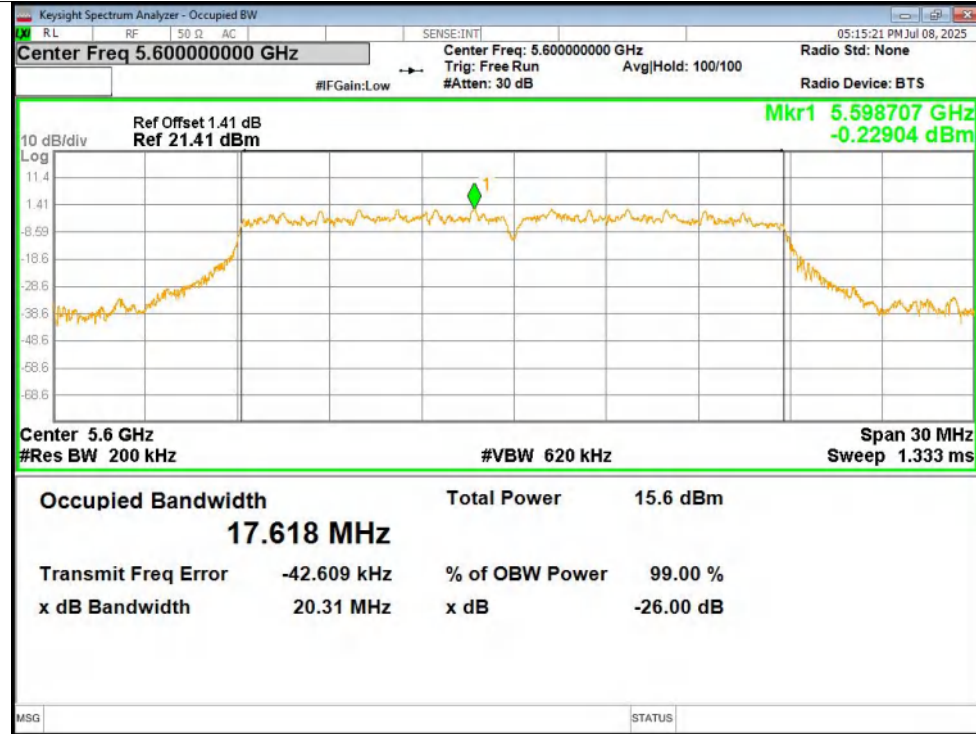
OBW NVNT a 5700MHz Ant1



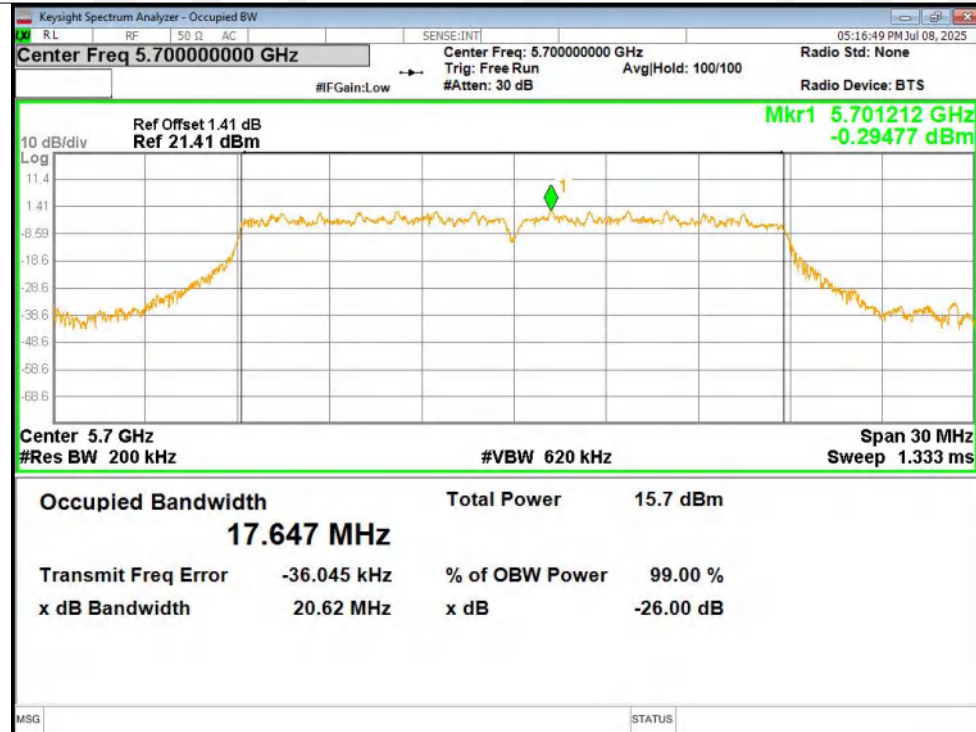
OBW NVNT n20 5500MHz Ant1



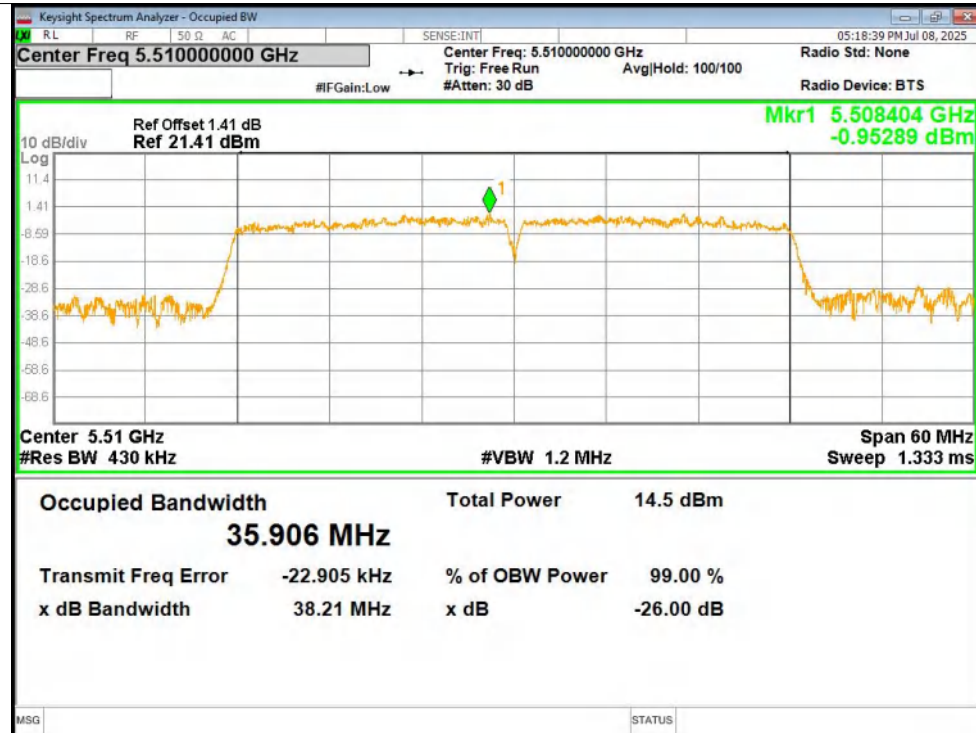
OBW NVNT n20 5600MHz Ant1



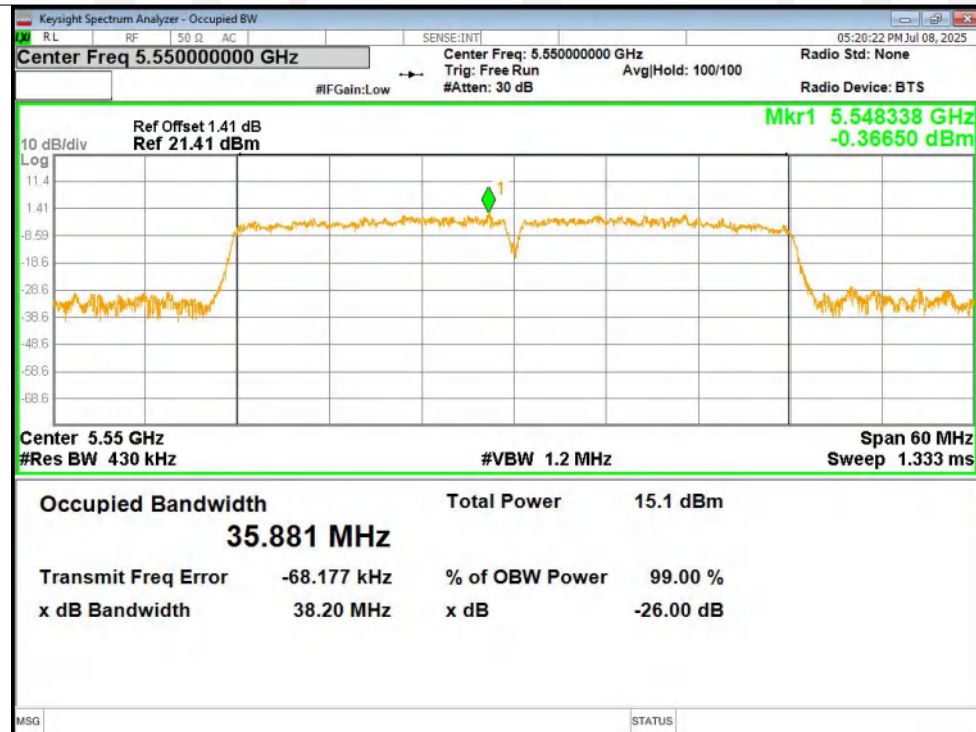
OBW NVNT n20 5700MHz Ant1

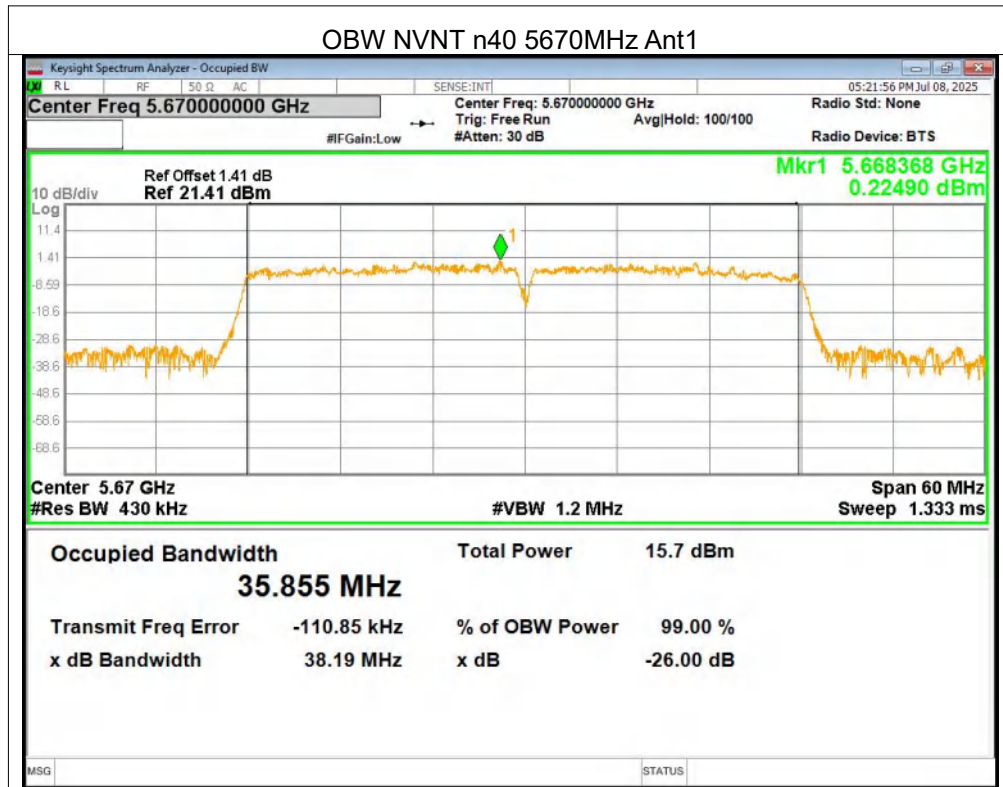


OBW NVNT n40 5510MHz Ant1



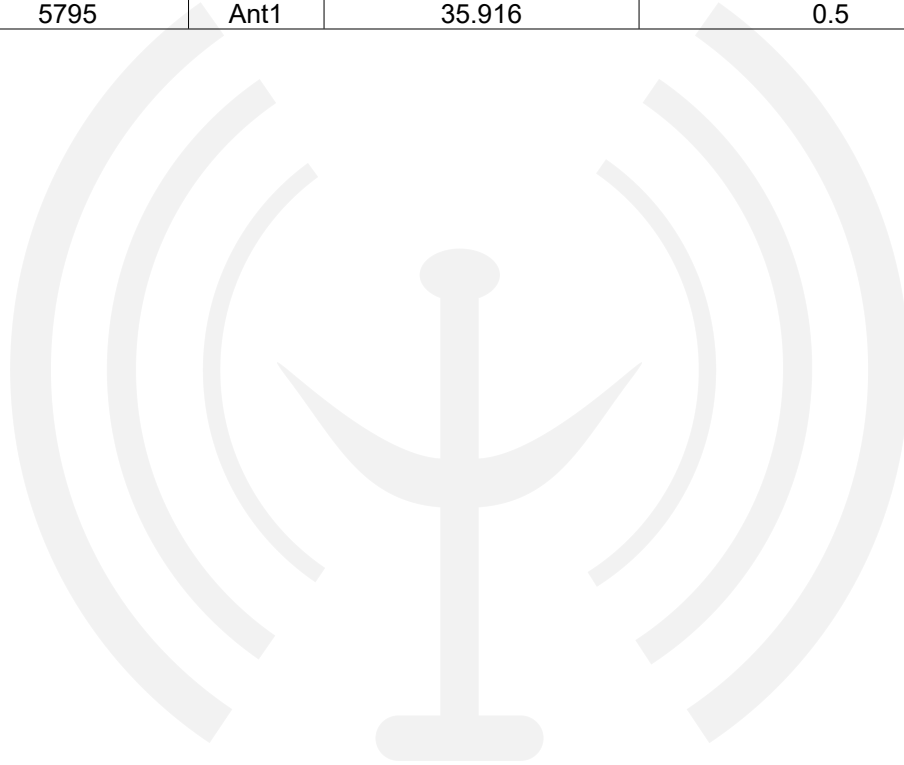
OBW NVNT n40 5550MHz Ant1





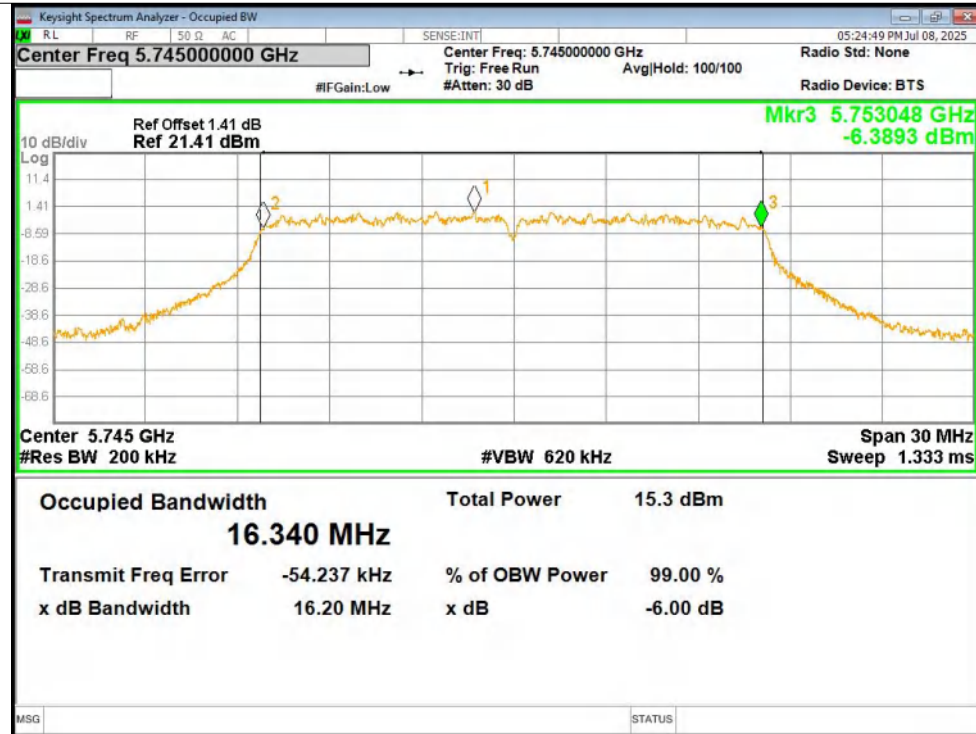
5.8GWIFI (5745MHz-5825 MHz)

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	16.204	0.5	Pass
NVNT	a	5785	Ant1	16.347	0.5	Pass
NVNT	a	5825	Ant1	16.325	0.5	Pass
NVNT	n20	5745	Ant1	17.436	0.5	Pass
NVNT	n20	5785	Ant1	17.634	0.5	Pass
NVNT	n20	5825	Ant1	17.665	0.5	Pass
NVNT	n40	5755	Ant1	35.966	0.5	Pass
NVNT	n40	5795	Ant1	35.916	0.5	Pass

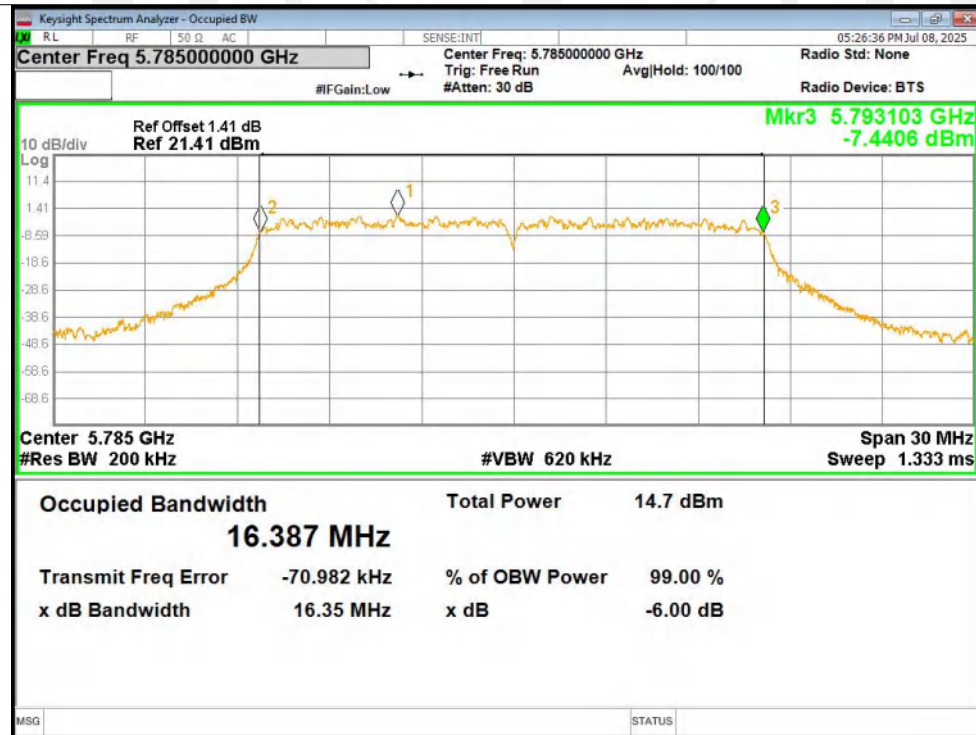


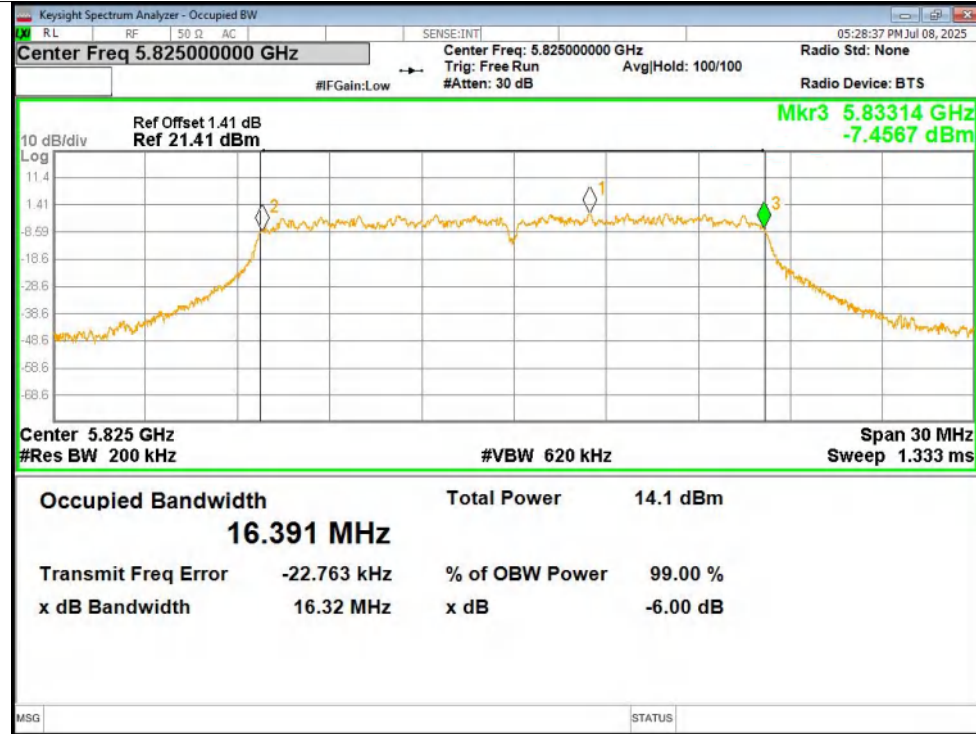
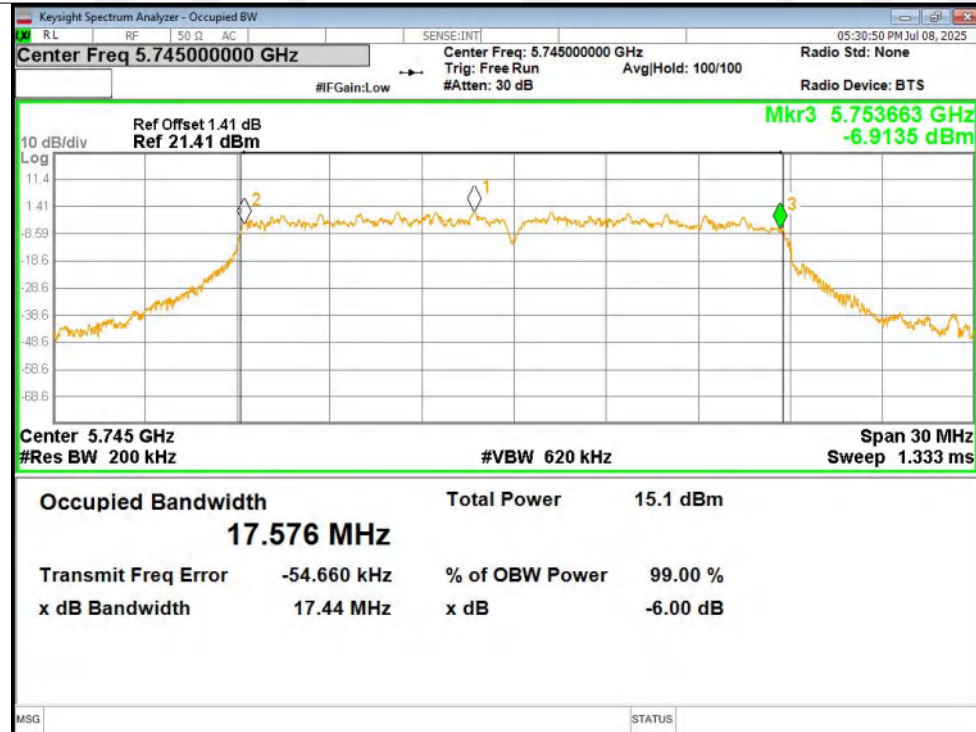
Test Graphs

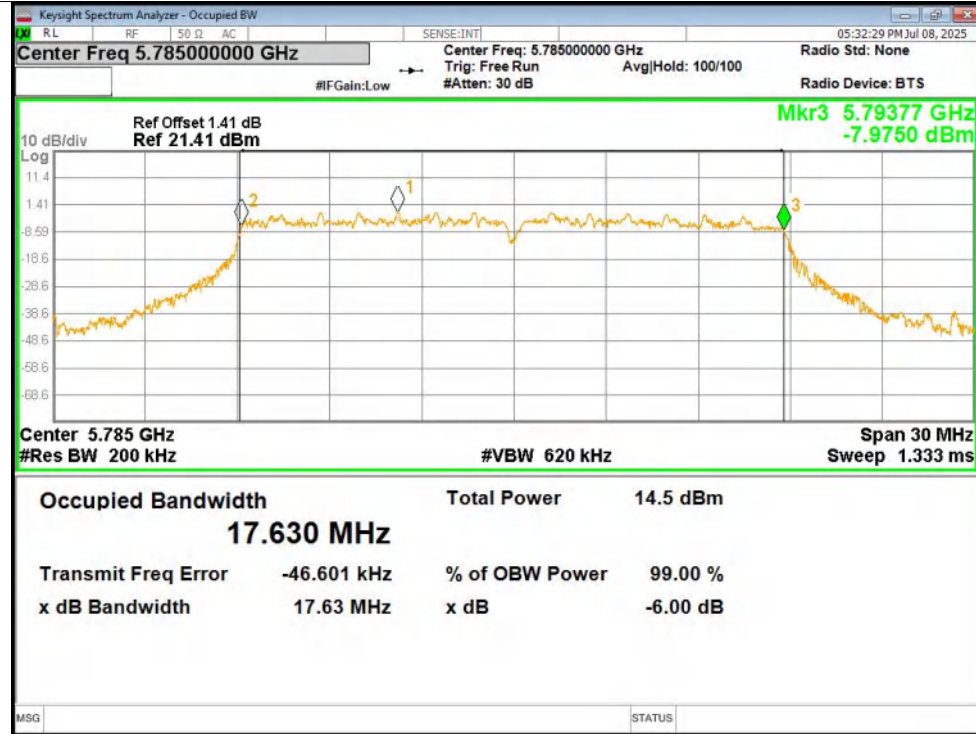
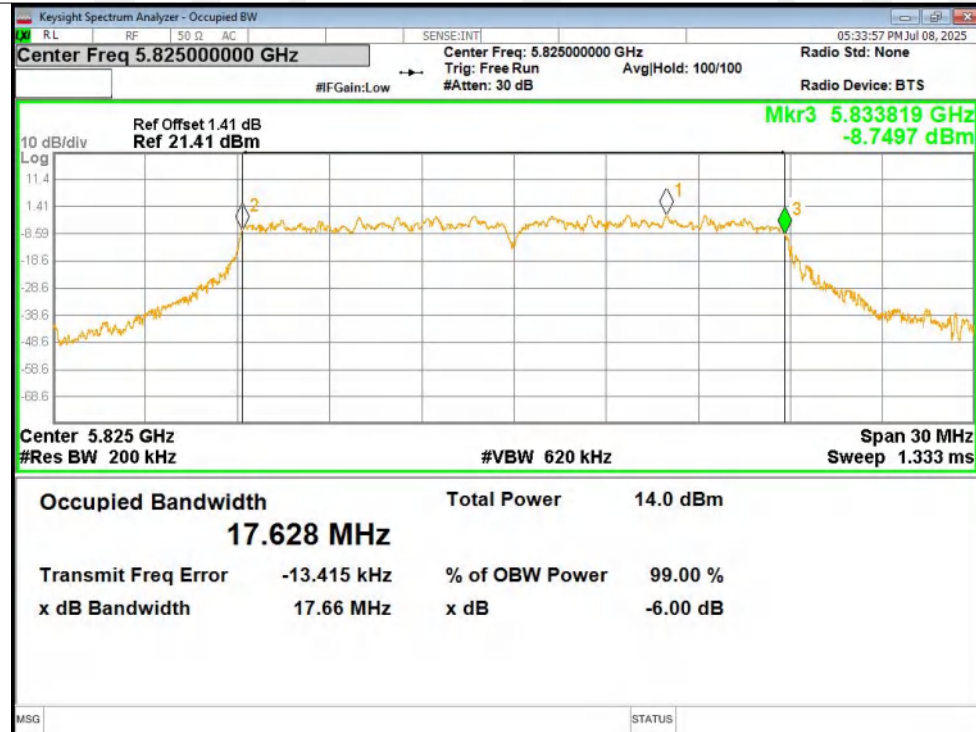
-6dB Bandwidth NVNT a 5745MHz Ant1

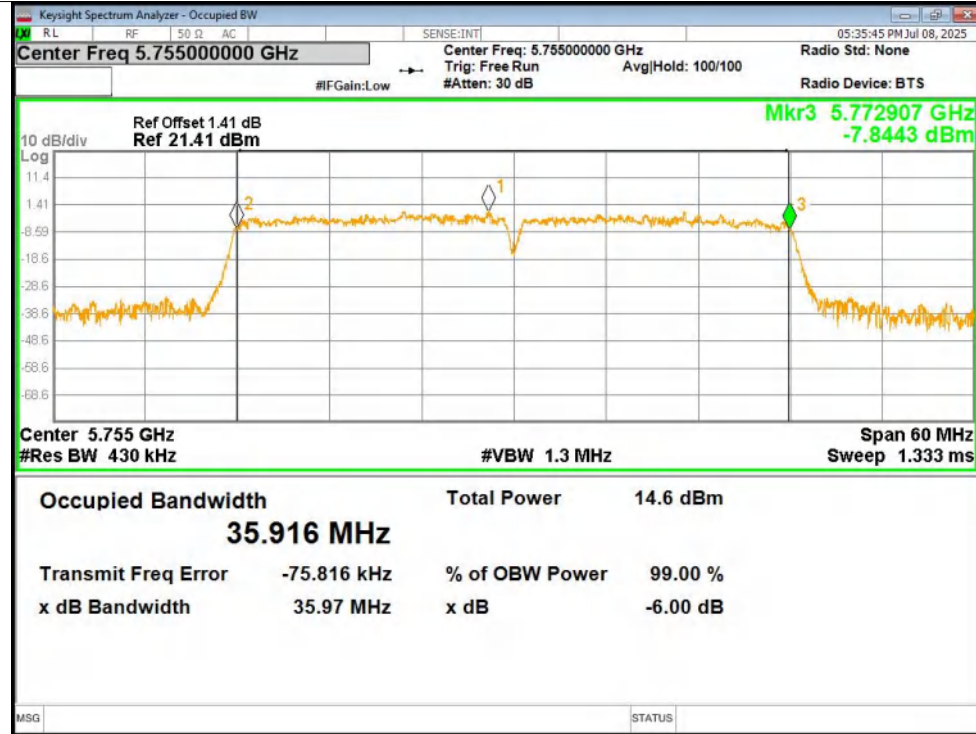
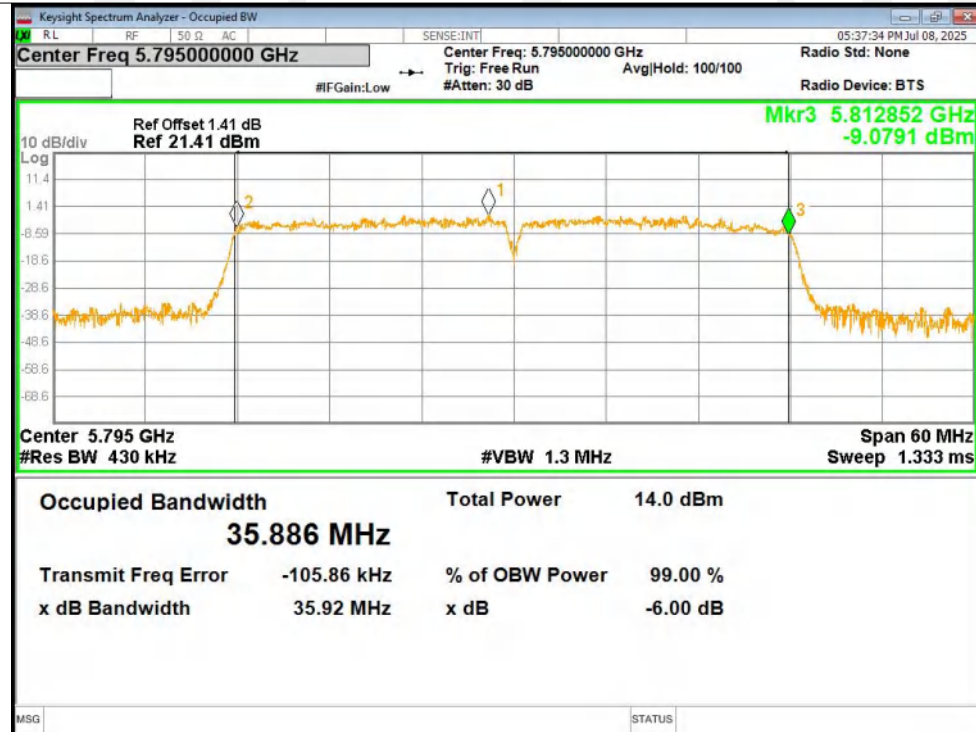


-6dB Bandwidth NVNT a 5785MHz Ant1



-6dB Bandwidth NVNT a 5825MHz Ant1**-6dB Bandwidth NVNT n20 5745MHz Ant1**

-6dB Bandwidth NVNT n20 5785MHz Ant1**-6dB Bandwidth NVNT n20 5825MHz Ant1**

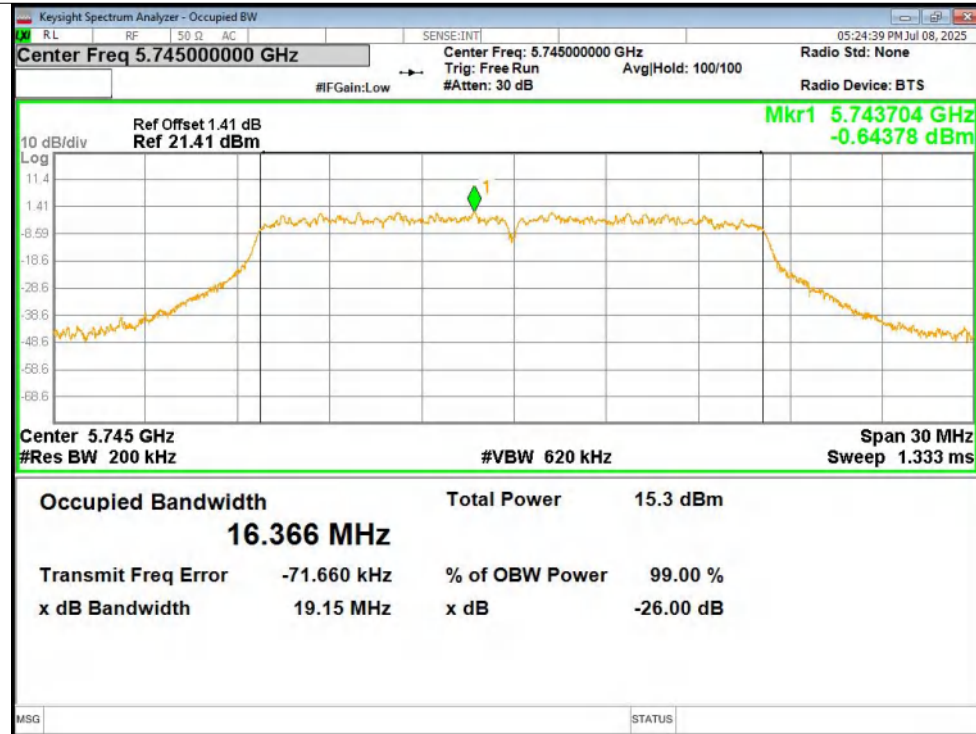
-6dB Bandwidth NVNT n40 5755MHz Ant1**-6dB Bandwidth NVNT n40 5795MHz Ant1**

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5745	Ant1	16.366
NVNT	a	5785	Ant1	16.397
NVNT	a	5825	Ant1	16.39
NVNT	n20	5745	Ant1	17.572
NVNT	n20	5785	Ant1	17.629
NVNT	n20	5825	Ant1	17.625
NVNT	n40	5755	Ant1	35.932
NVNT	n40	5795	Ant1	35.888

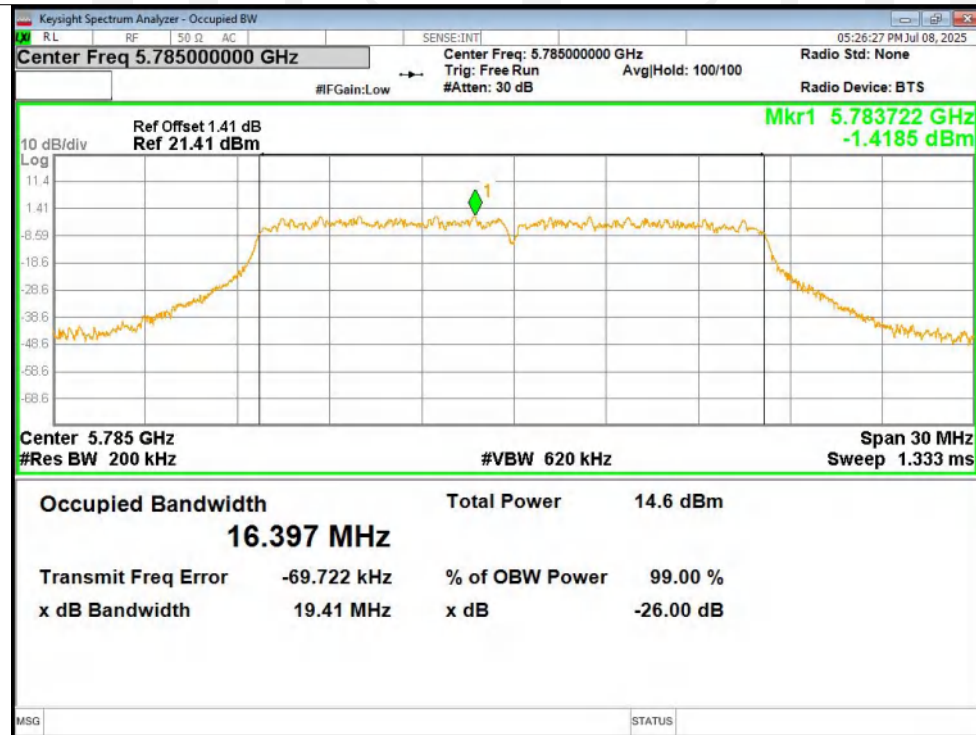


Test Graphs

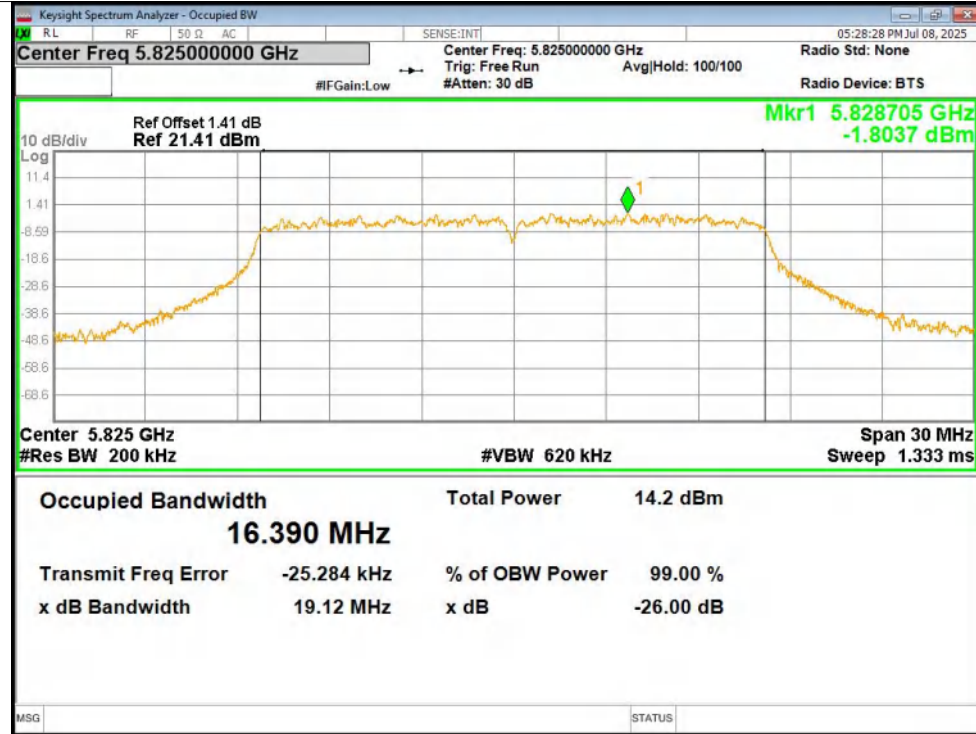
OBW NVNT a 5745MHz Ant1



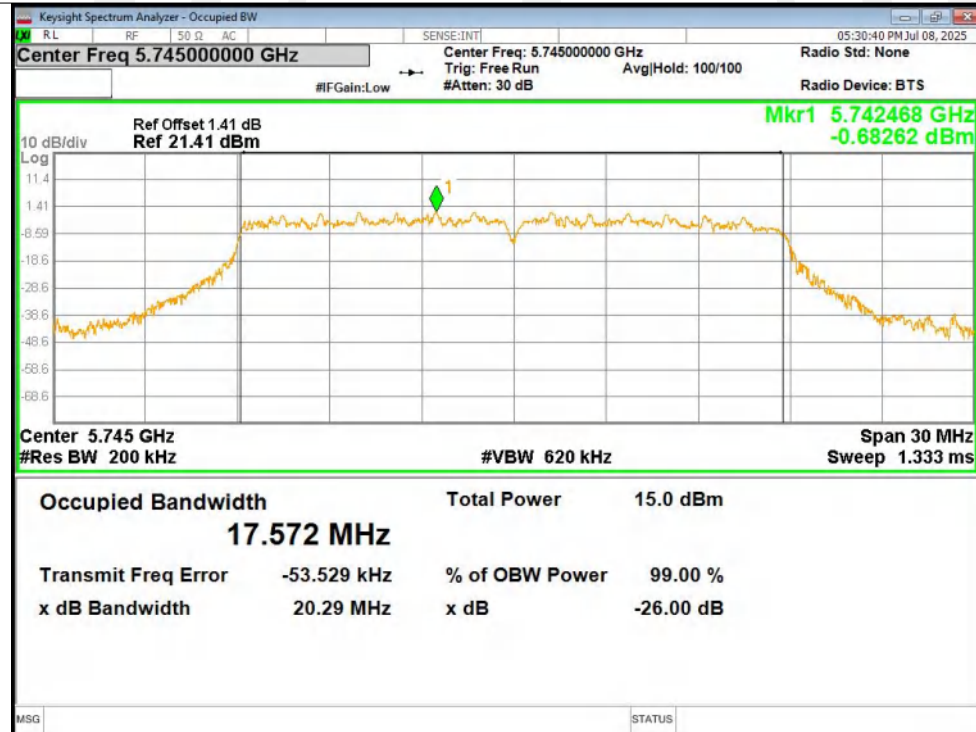
OBW NVNT a 5785MHz Ant1



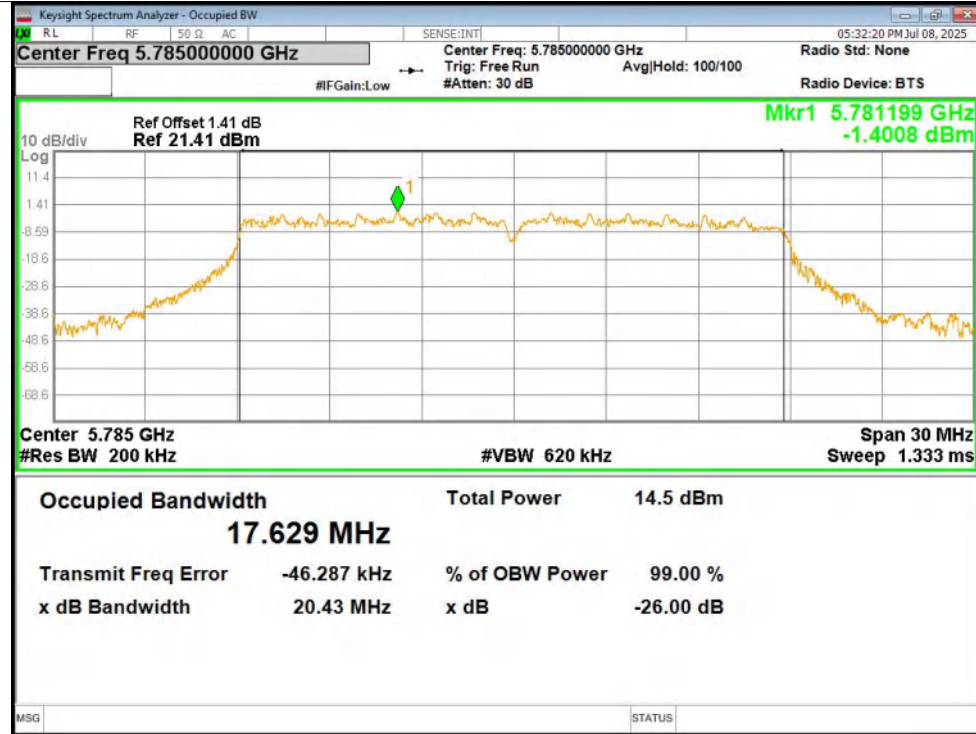
OBW NVNT a 5825MHz Ant1



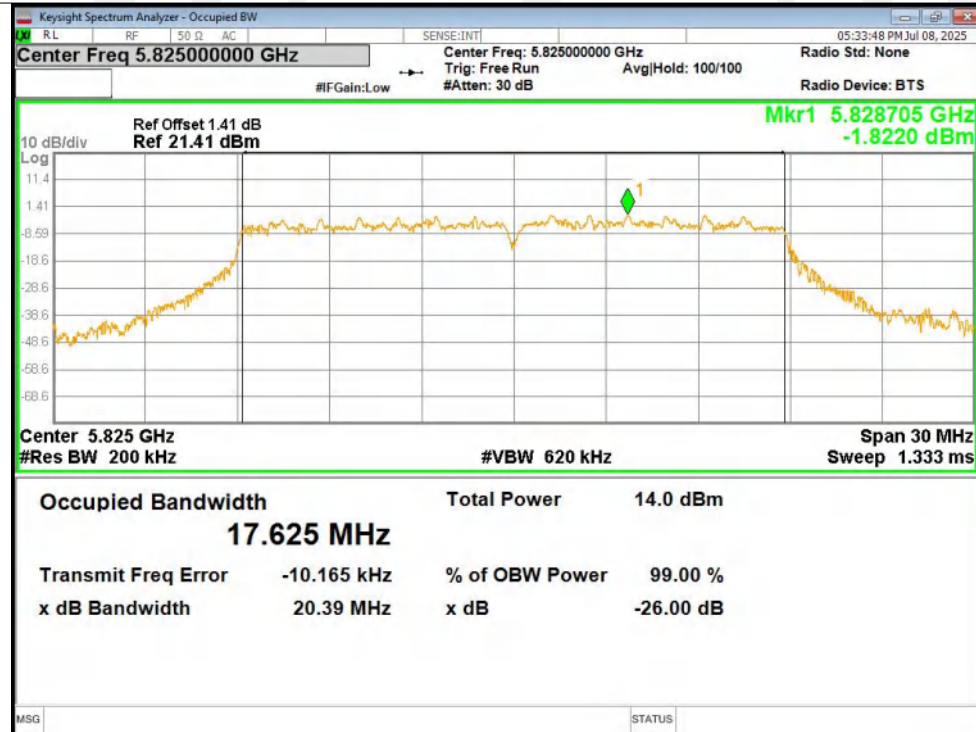
OBW NVNT n20 5745MHz Ant1



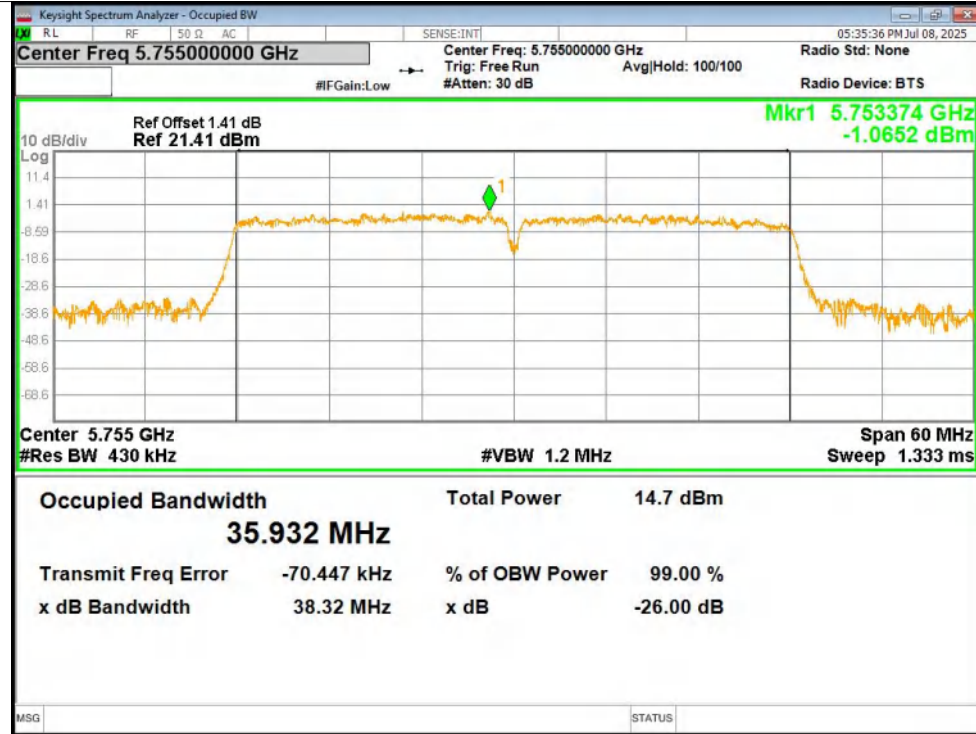
OBW NVNT n20 5785MHz Ant1



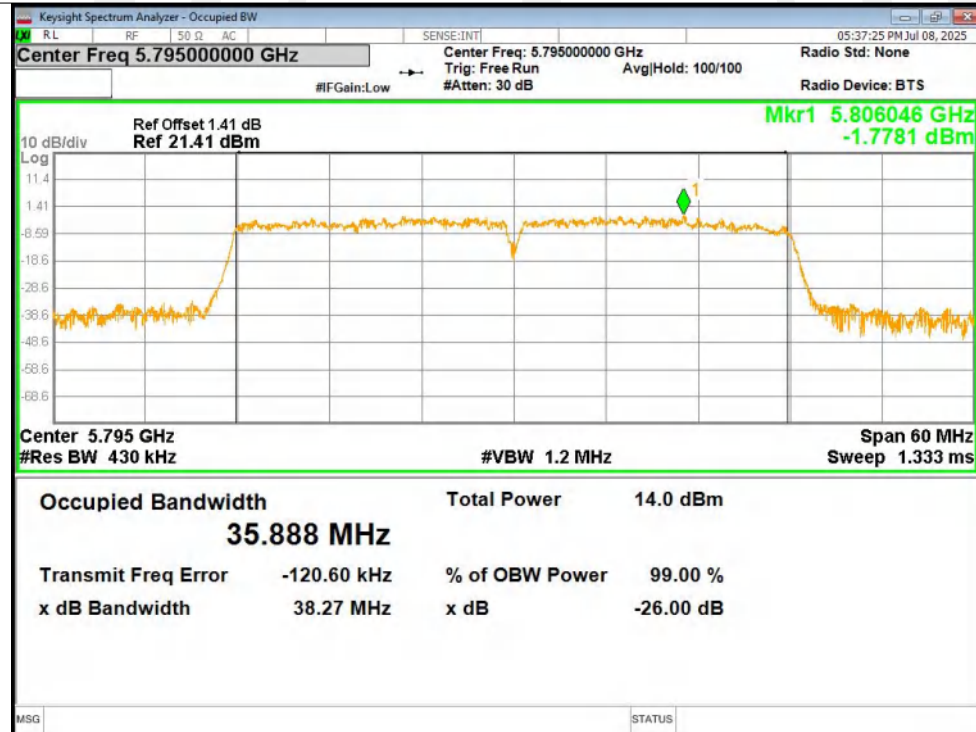
OBW NVNT n20 5825MHz Ant1



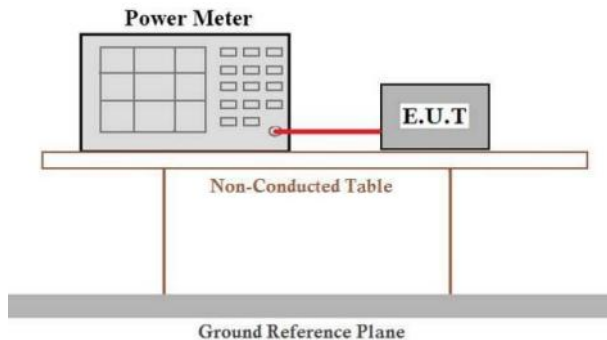
OBW NVNT n40 5755MHz Ant1



OBW NVNT n40 5795MHz Ant1



4.4 Maximum Conducted Output Power

Test Requirement:	FCC Part15 E Section 15.407, RSS-247 §6.2
Test Method:	KDB 789033 D02 General UNII Test Procedures New Rules v02r01
Limit:	For the band 5.15-5.25GHz, 5.25-5.35GHz, 5.47-5.725GHz, the maximum conducted output power over the frequency bands of operation shall not exceed 250mW. For the band 5.725-5.85GHz, the maximum conducted output power over the frequency bands of operation shall not exceed 1W. IC: For the 5.15–5.25 GHz band, For other devices, the maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. For the 5.25–5.35 GHz band, Other than devices installed in vehicles, the maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever power is less. The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. For the 5.47–5.6 GHz and 5.65–5.725 GHz band, the maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever power is less. The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. For the band 5.725–5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance. If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
Test setup:	 The diagram illustrates the test setup. A 'Power Meter' is connected via a red cable to an 'E.U.T.' (Equipment Under Test). Both are placed on a 'Non-Conducted Table'. Below the table is a 'Ground Reference Plane'.
Test procedure:	Measurement using an RF average power meter (i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the

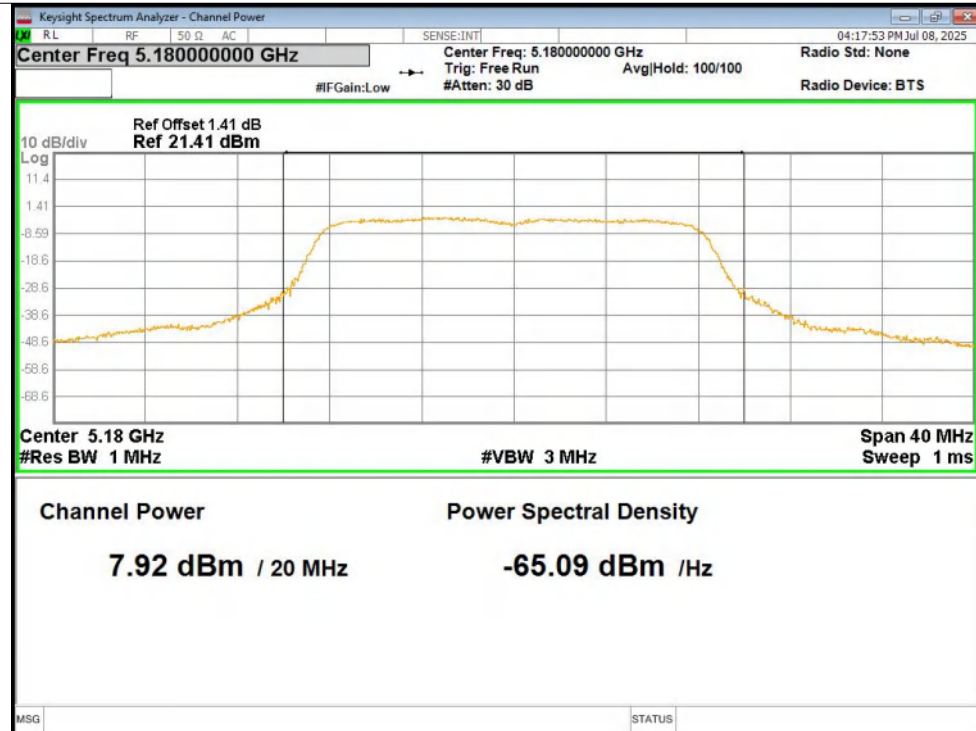
	conditions listed below are satisfied a) The EUT is configured to transmit continuously or to transmit with a constant duty cycle. b) At all times when the EUT is transmitting, it must be transmitting at its maximum power control level. c) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five. (ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in section B). (iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter. (iv) Adjust the measurement in dBm by adding $10 \log(1/x)$ where x is the duty cycle (e.g., $10 \log(1/0.25)$ if the duty cycle is 25 percent).
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass

Measurement Data:**5.2GWIFI (5180-5240 MHz)**

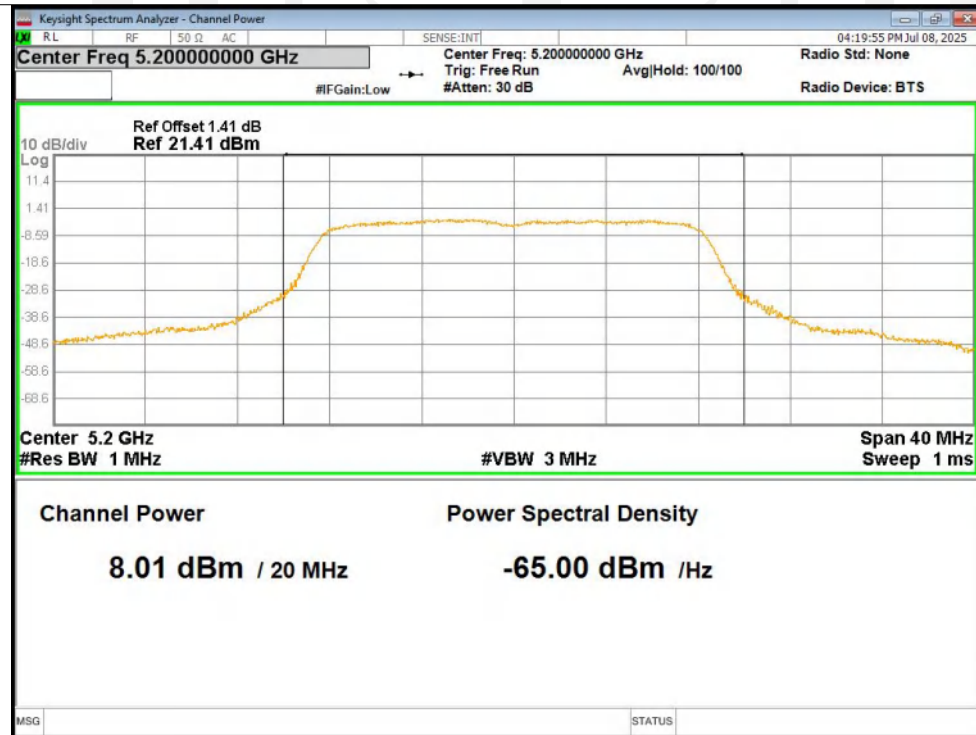
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	7.92	1.12	9.04	24	Pass
NVNT	a	5200	Ant1	8.01	1.31	9.32	24	Pass
NVNT	a	5240	Ant1	7.68	1.06	8.74	24	Pass
NVNT	n20	5180	Ant1	7.72	1.18	8.9	24	Pass
NVNT	n20	5200	Ant1	7.8	1.18	8.98	24	Pass
NVNT	n20	5240	Ant1	7.51	1.38	8.89	24	Pass
NVNT	n40	5190	Ant1	7.05	1.76	8.81	24	Pass
NVNT	n40	5230	Ant1	6.94	1.76	8.7	24	Pass

Test Graphs

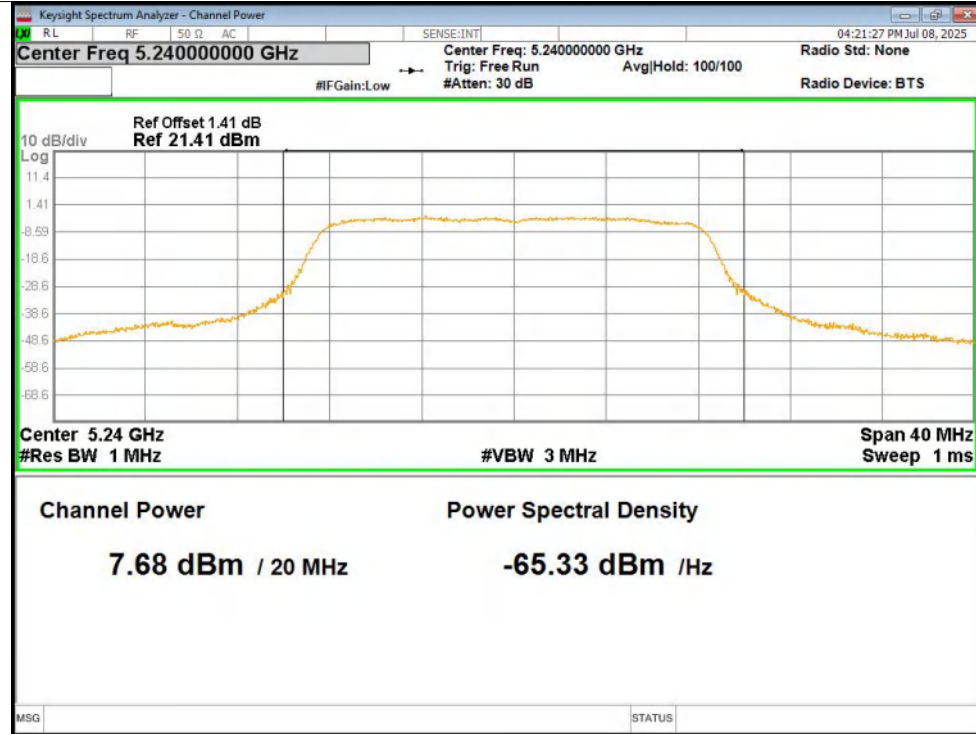
Power NVNT a 5180MHz Ant1



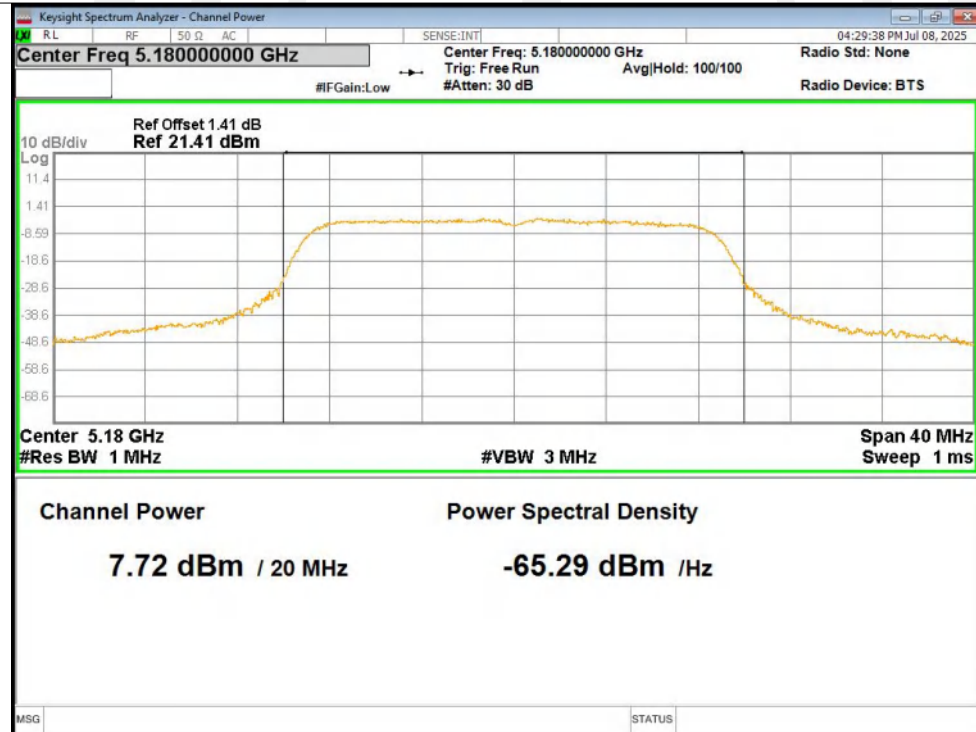
Power NVNT a 5200MHz Ant1



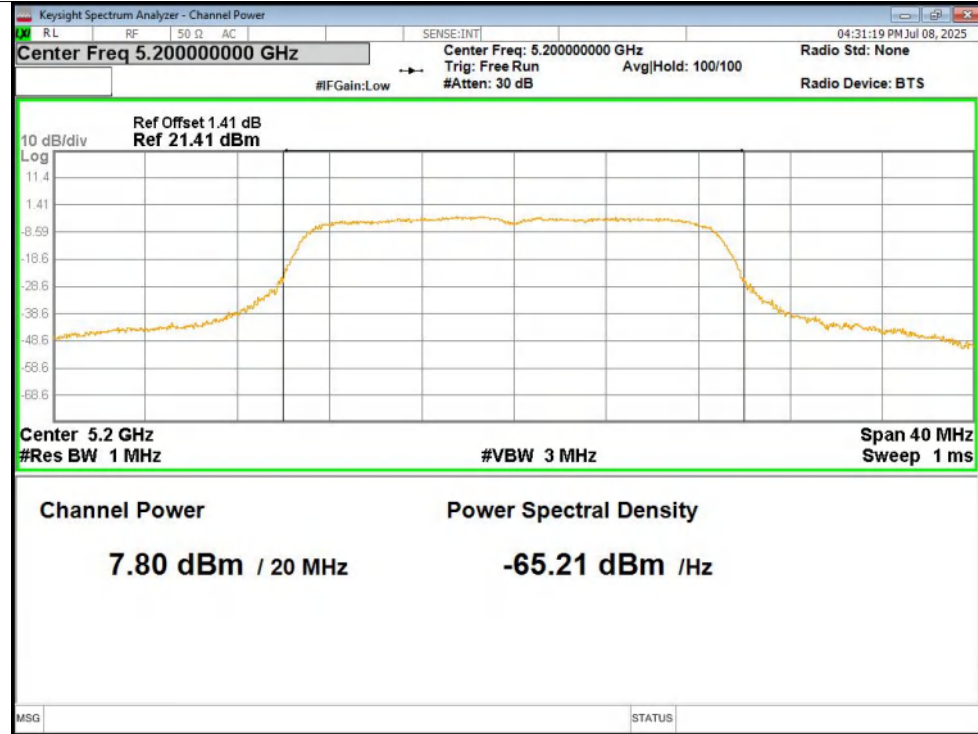
Power NVNT a 5240MHz Ant1



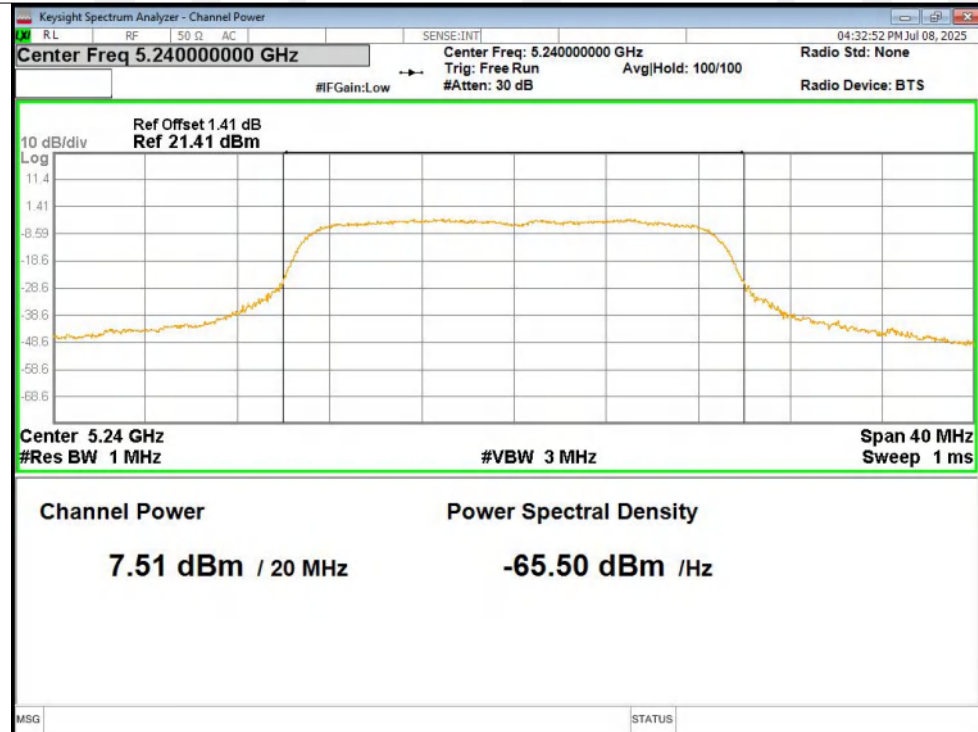
Power NVNT n20 5180MHz Ant1



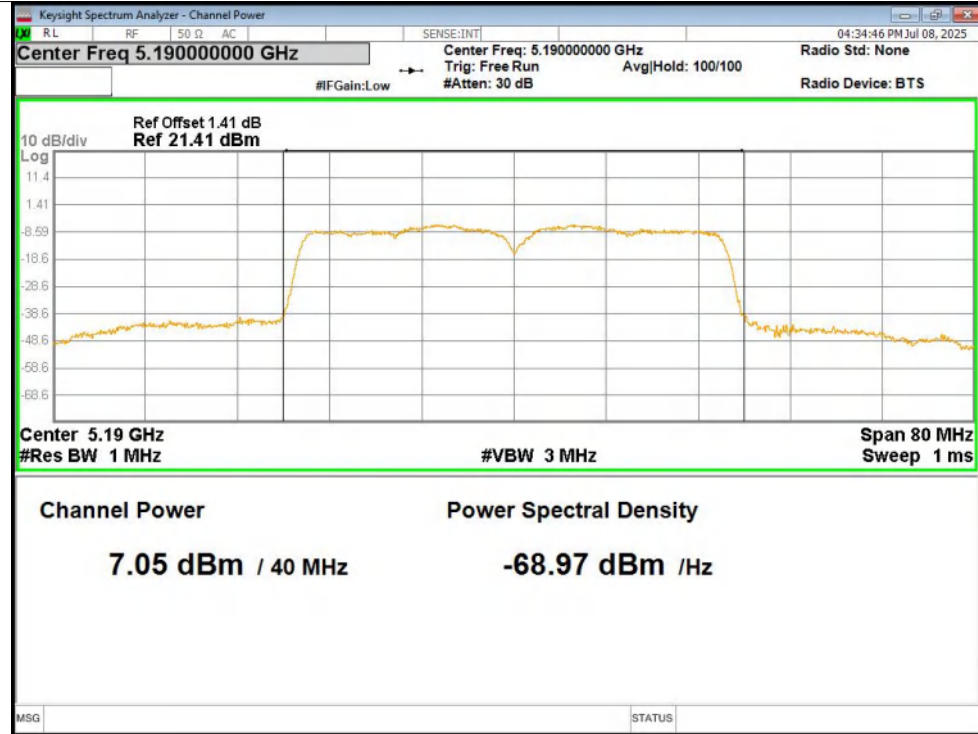
Power NVNT n20 5200MHz Ant1



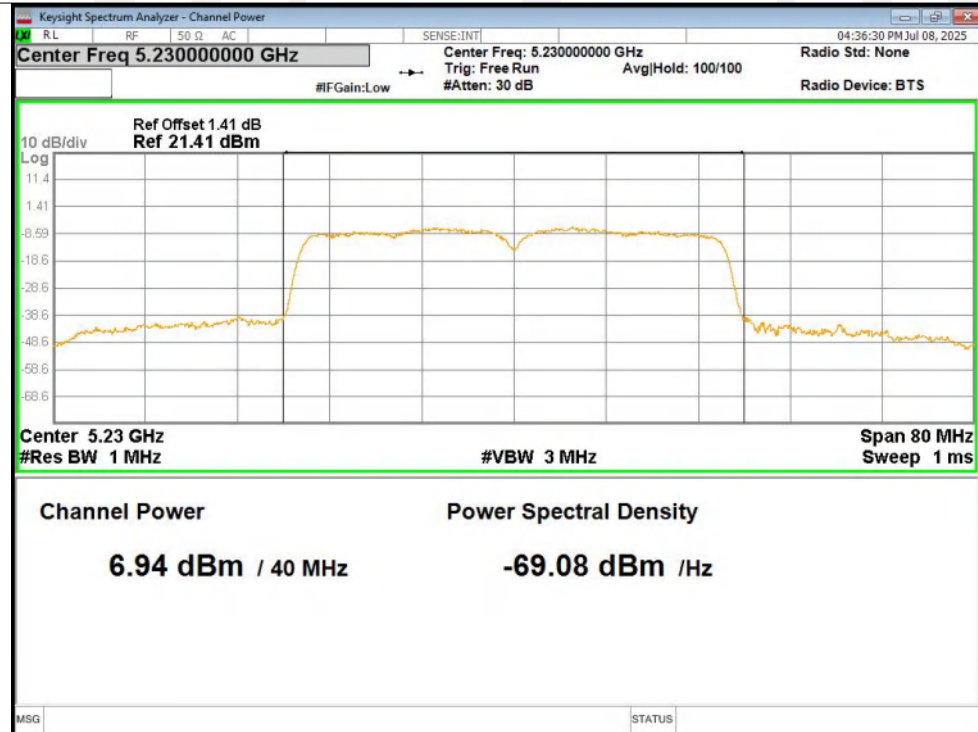
Power NVNT n20 5240MHz Ant1



Power NVNT n40 5190MHz Ant1



Power NVNT n40 5230MHz Ant1



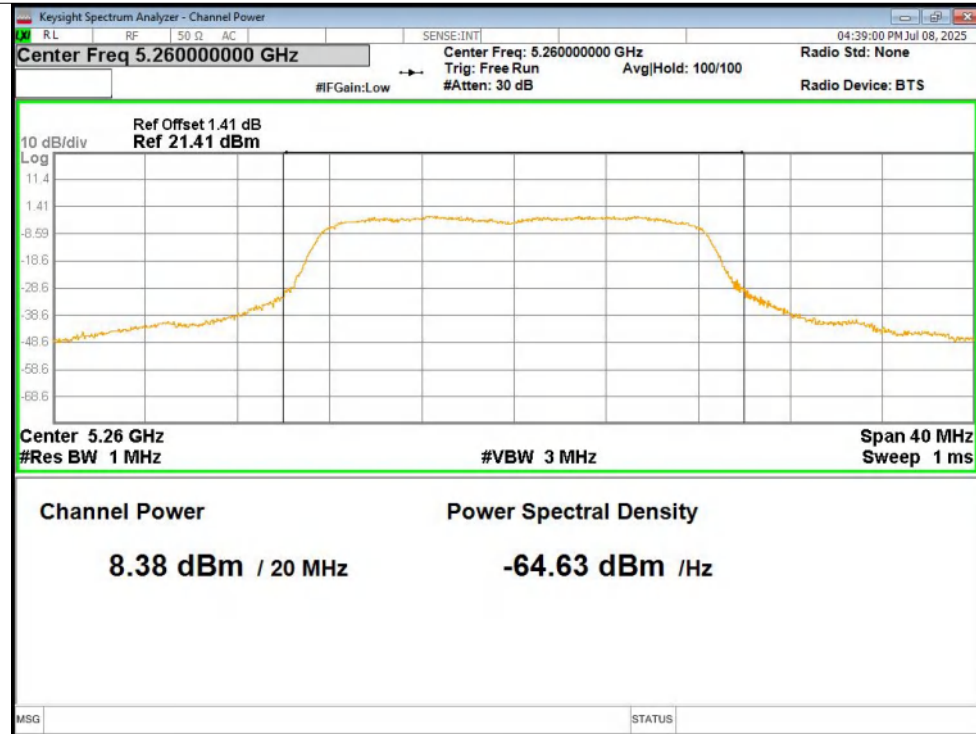
5.3GWIFI (5260MHz-5320 MHz)

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	8.38	1.12	9.5	24	Pass
NVNT	a	5280	Ant1	8.12	1.12	9.24	24	Pass
NVNT	a	5320	Ant1	8.83	1.12	9.95	24	Pass
NVNT	n20	5260	Ant1	8.15	1.18	9.33	24	Pass
NVNT	n20	5280	Ant1	7.97	1.18	9.15	24	Pass
NVNT	n20	5320	Ant1	8.55	1.18	9.73	24	Pass
NVNT	n40	5270	Ant1	7.51	2.22	9.73	24	Pass
NVNT	n40	5310	Ant1	7.7	1.76	9.46	24	Pass

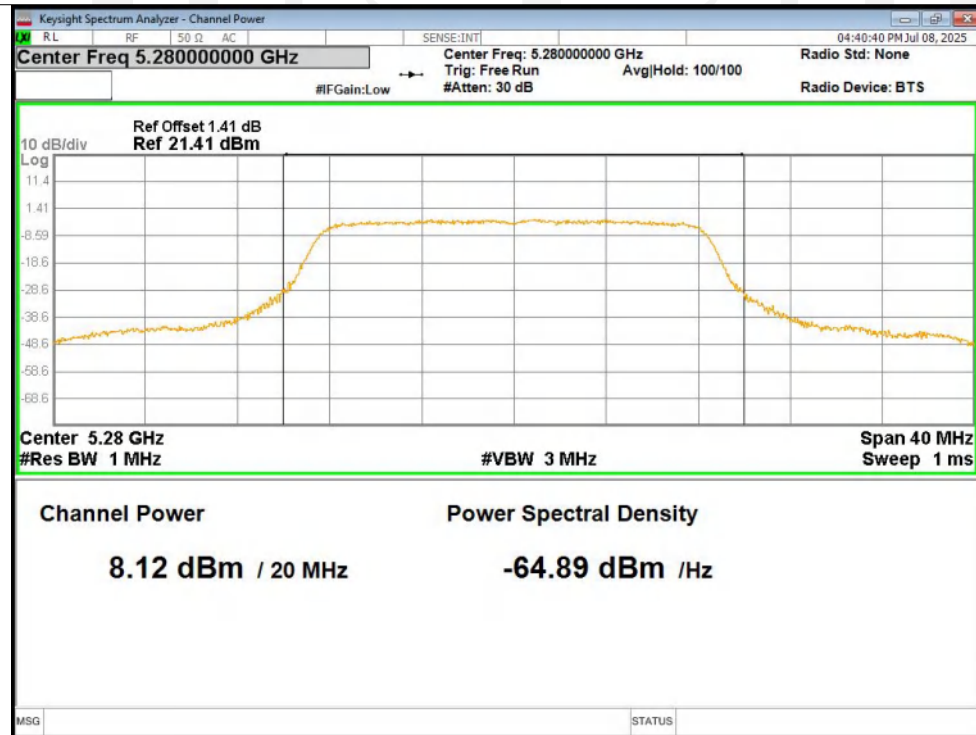


Test Graphs

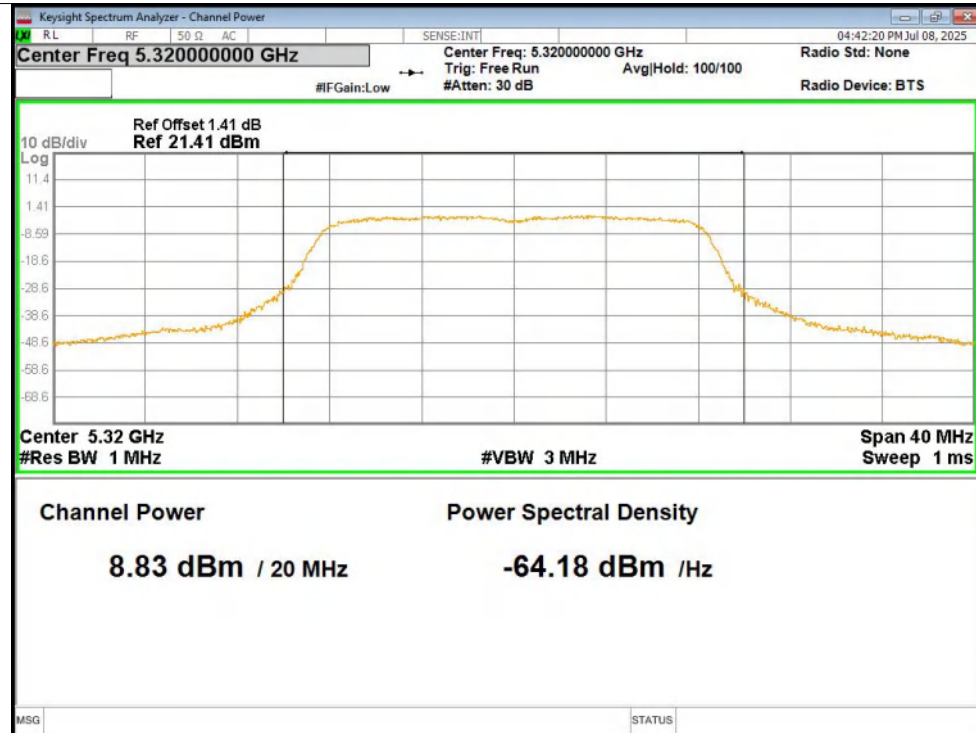
Power NVNT a 5260MHz Ant1



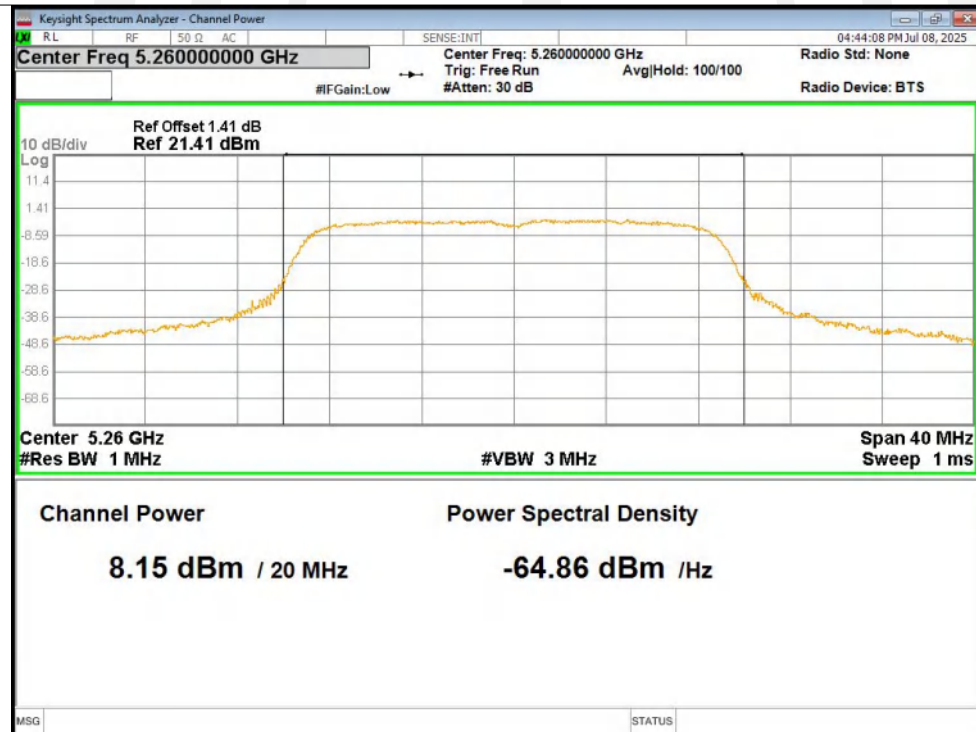
Power NVNT a 5280MHz Ant1



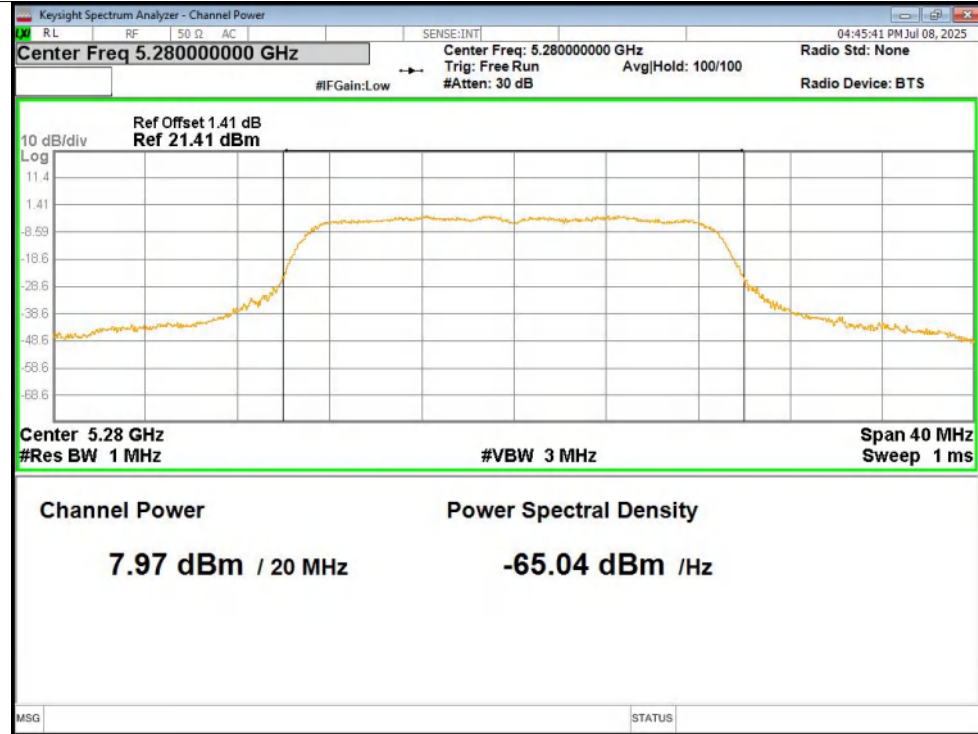
Power NVNT a 5320MHz Ant1



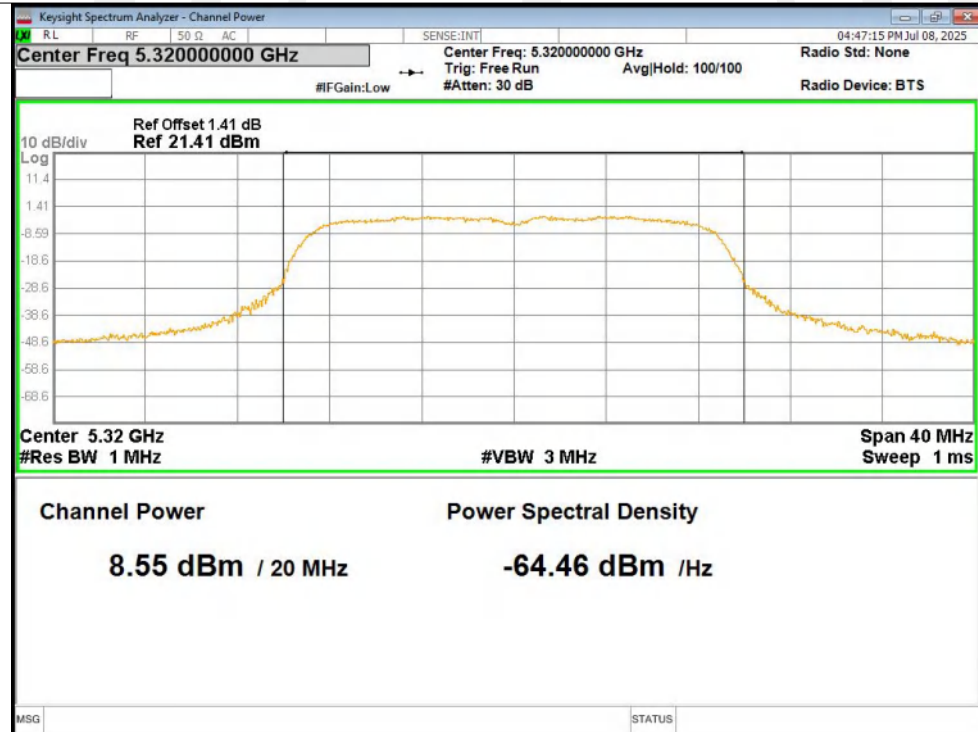
Power NVNT n20 5260MHz Ant1



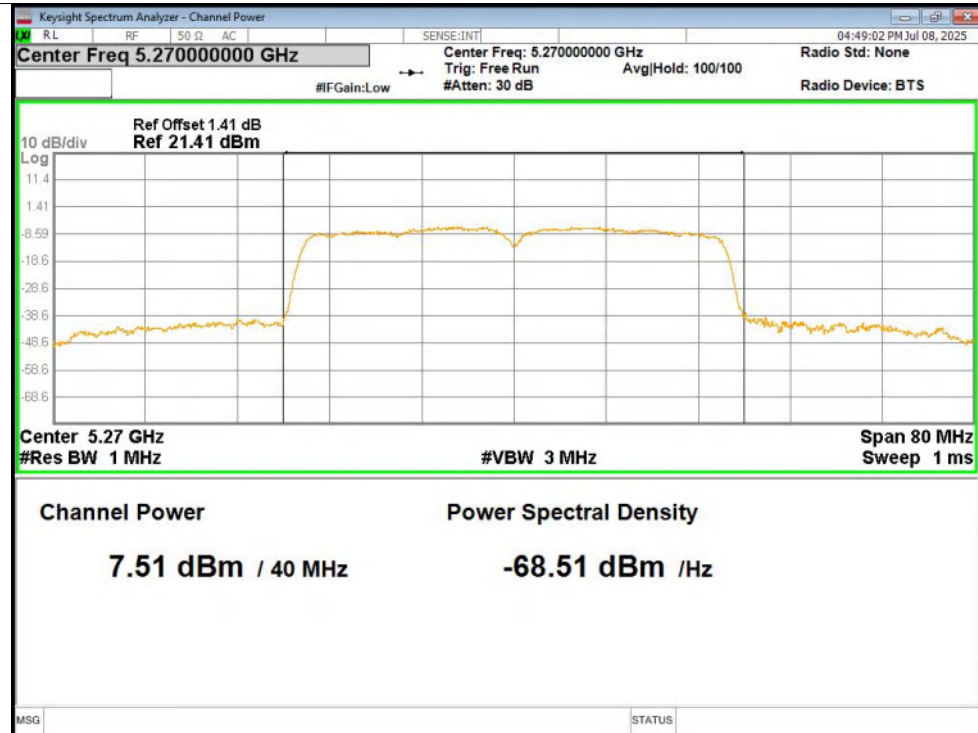
Power NVNT n20 5280MHz Ant1



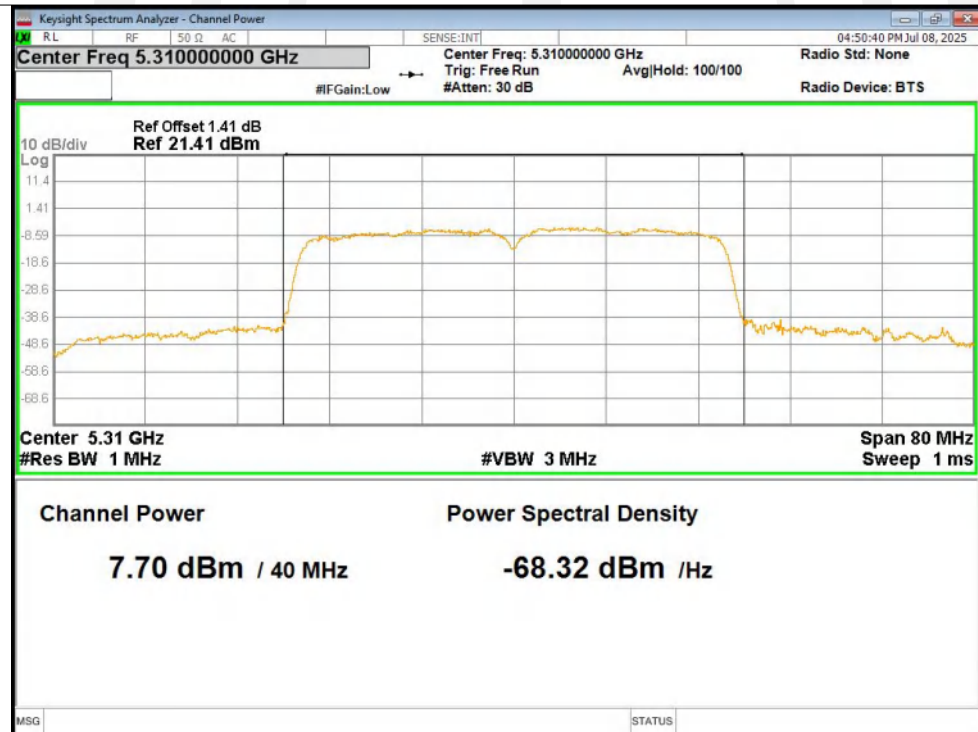
Power NVNT n20 5320MHz Ant1



Power NVNT n40 5270MHz Ant1



Power NVNT n40 5310MHz Ant1

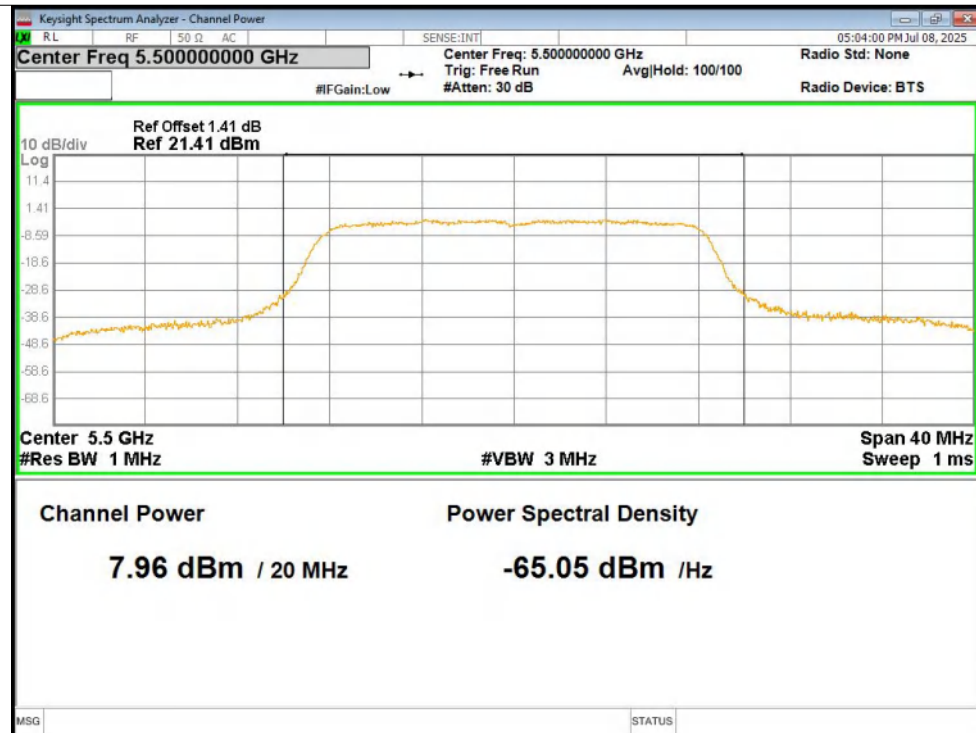


5.6GWIFI (5500MHz-5700MHz)

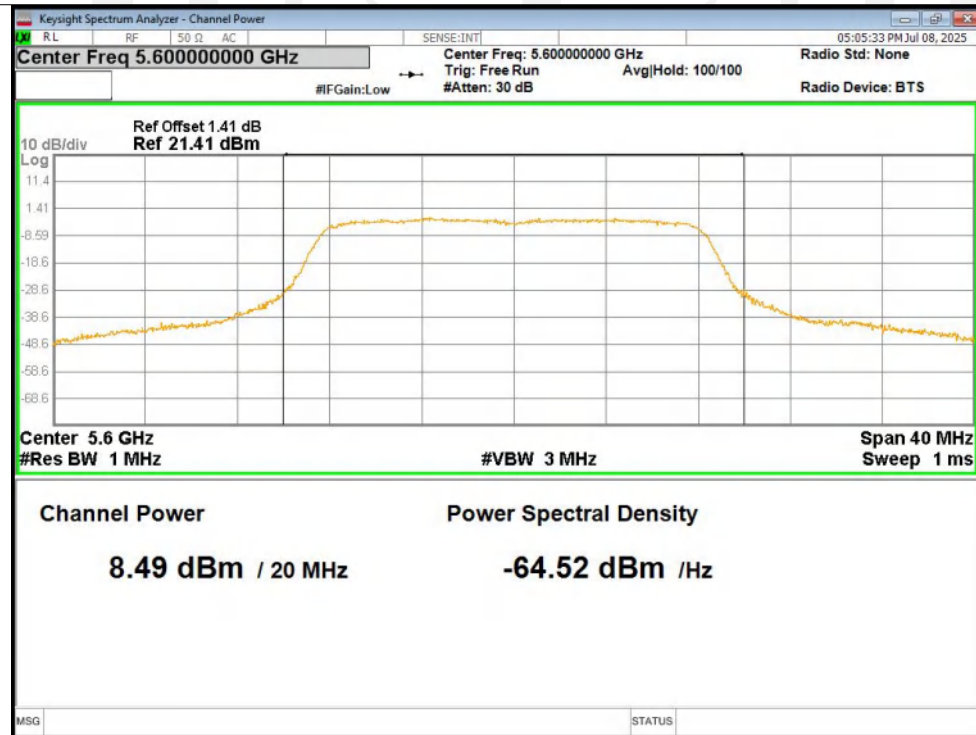
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	Ant1	7.96	1.12	9.08	24	Pass
NVNT	a	5600	Ant1	8.49	1.12	9.61	24	Pass
NVNT	a	5700	Ant1	8.78	1.31	10.09	24	Pass
NVNT	n20	5500	Ant1	7.85	1.18	9.03	24	Pass
NVNT	n20	5600	Ant1	8.63	1.18	9.81	24	Pass
NVNT	n20	5700	Ant1	8.58	1.18	9.76	24	Pass
NVNT	n40	5510	Ant1	7.15	1.76	8.91	24	Pass
NVNT	n40	5550	Ant1	7.7	1.76	9.46	24	Pass
NVNT	n40	5670	Ant1	8.29	1.76	10.05	24	Pass

Test Graphs

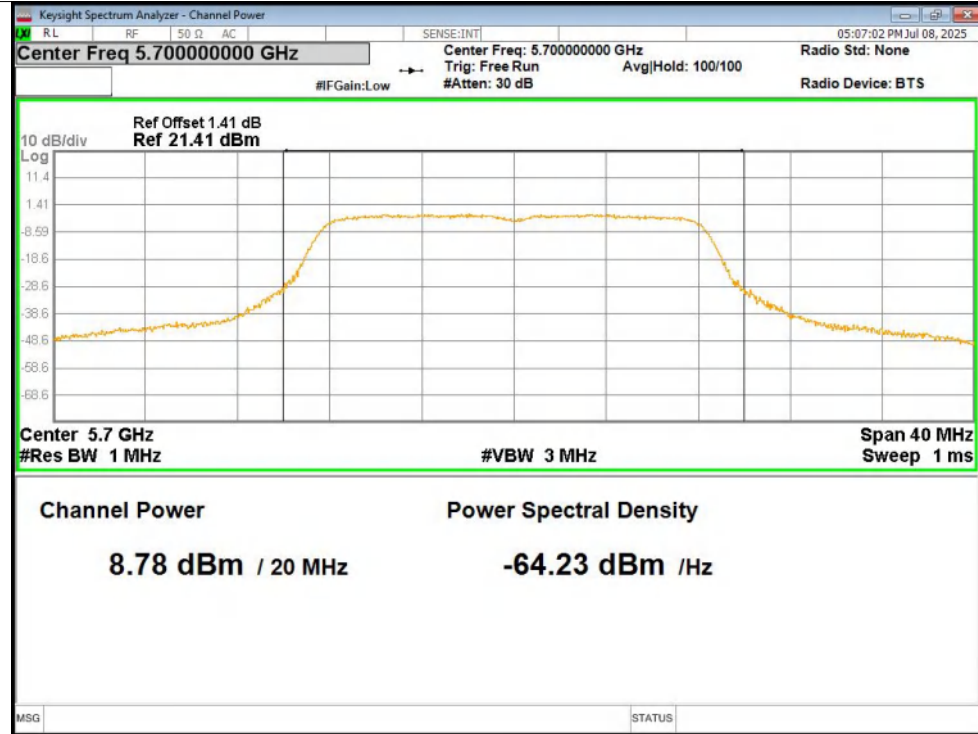
Power NVNT a 5500MHz Ant1



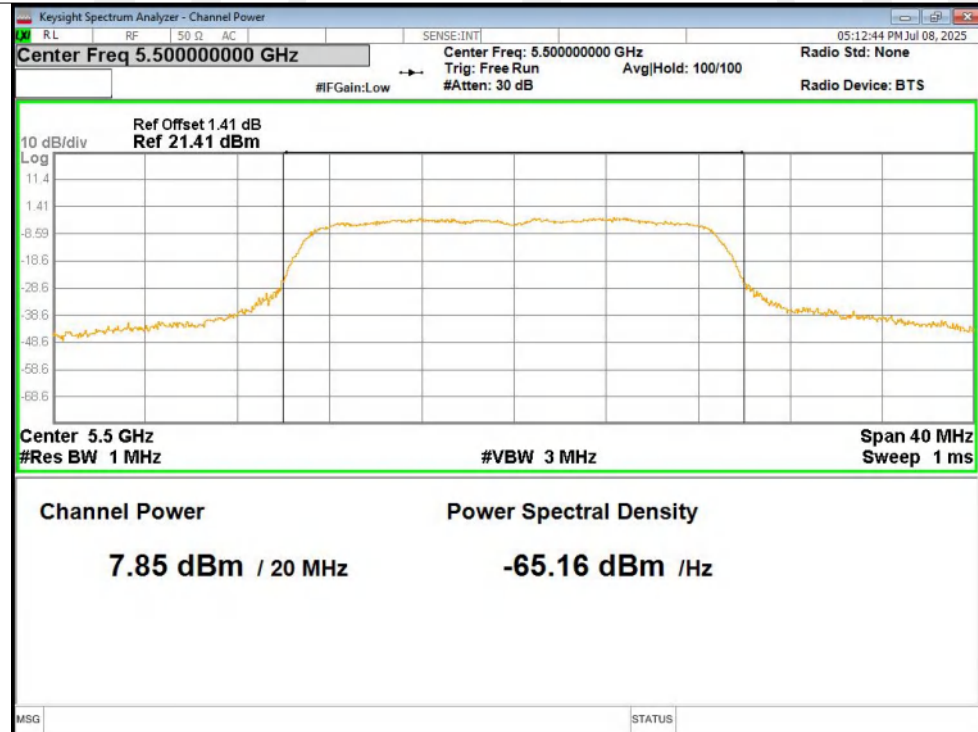
Power NVNT a 5600MHz Ant1



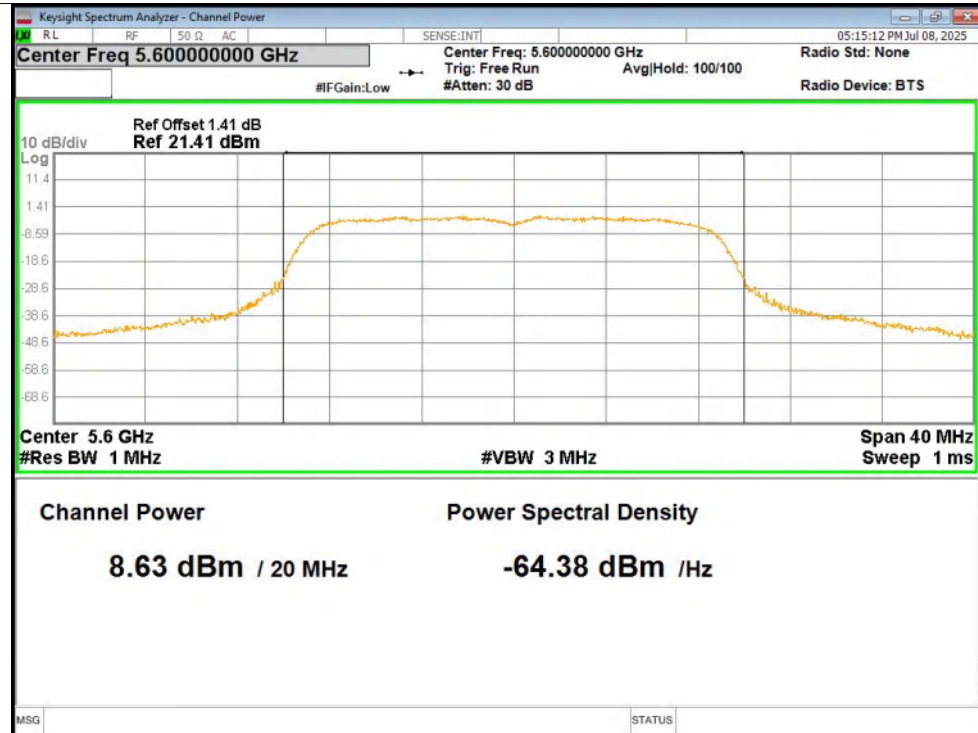
Power NVNT a 5700MHz Ant1



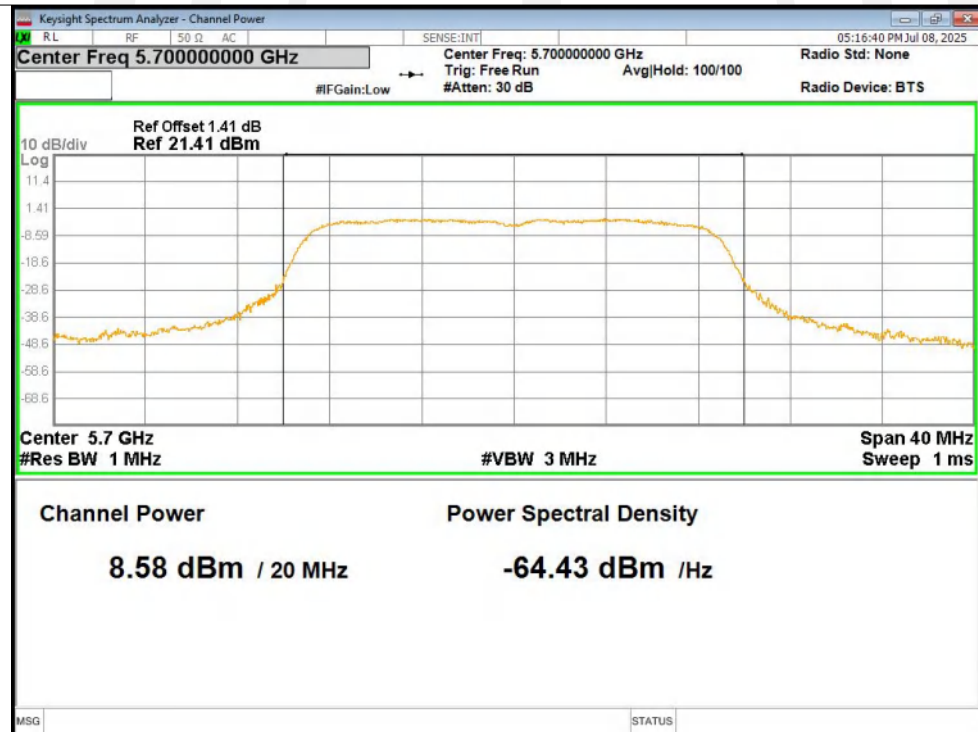
Power NVNT n20 5500MHz Ant1



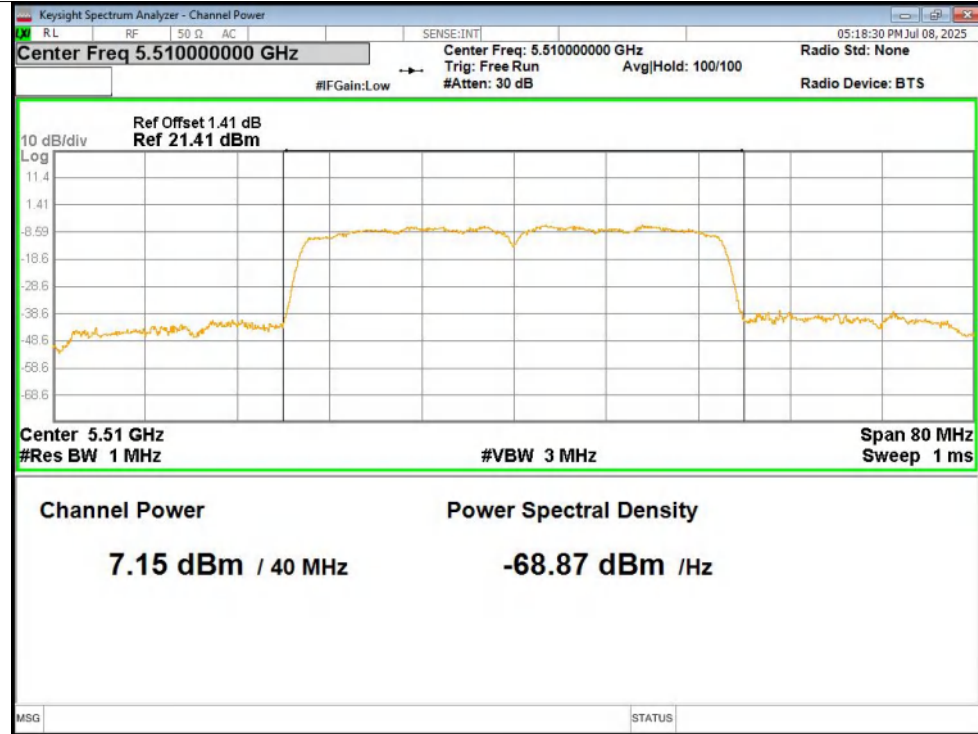
Power NVNT n20 5600MHz Ant1



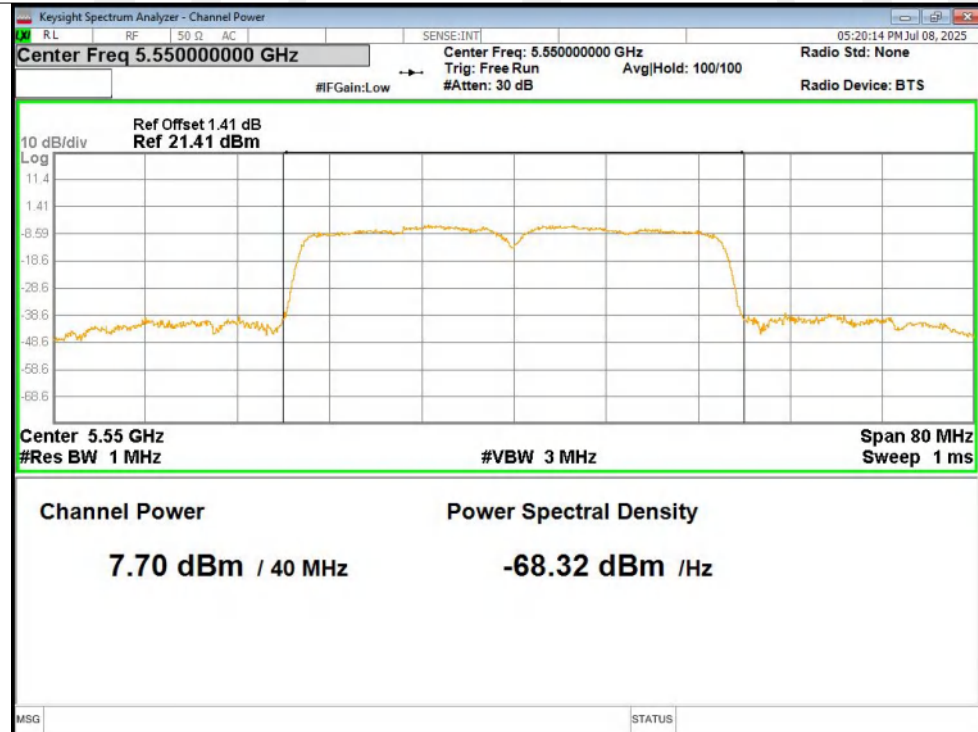
Power NVNT n20 5700MHz Ant1

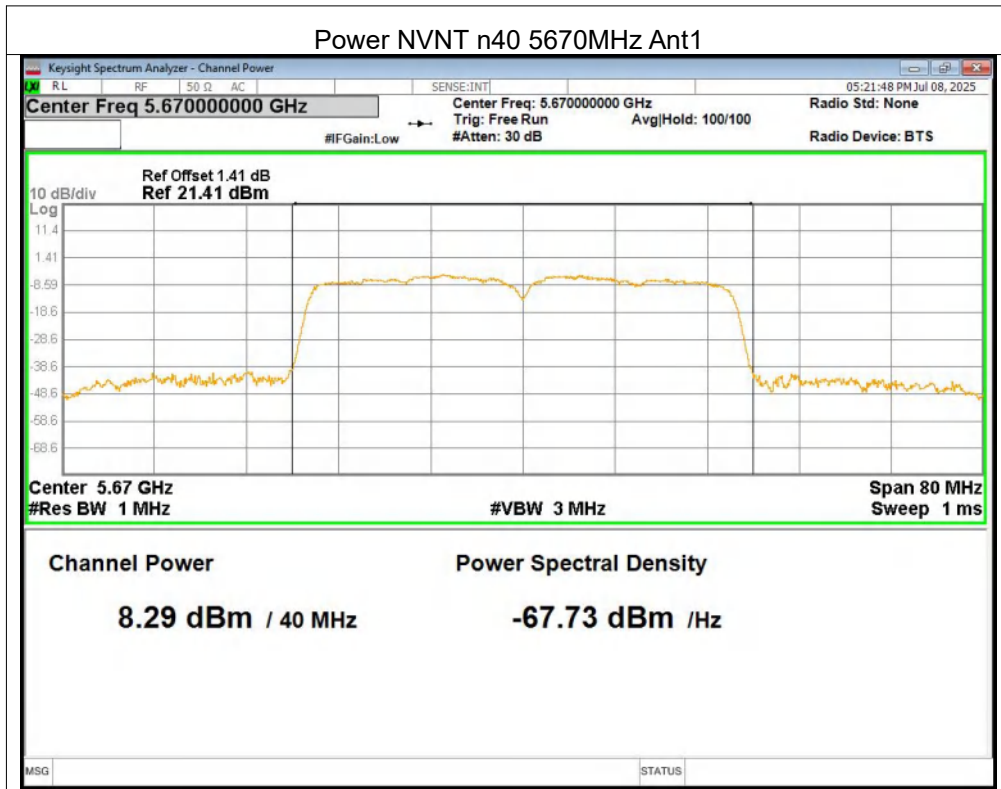


Power NVNT n40 5510MHz Ant1



Power NVNT n40 5550MHz Ant1





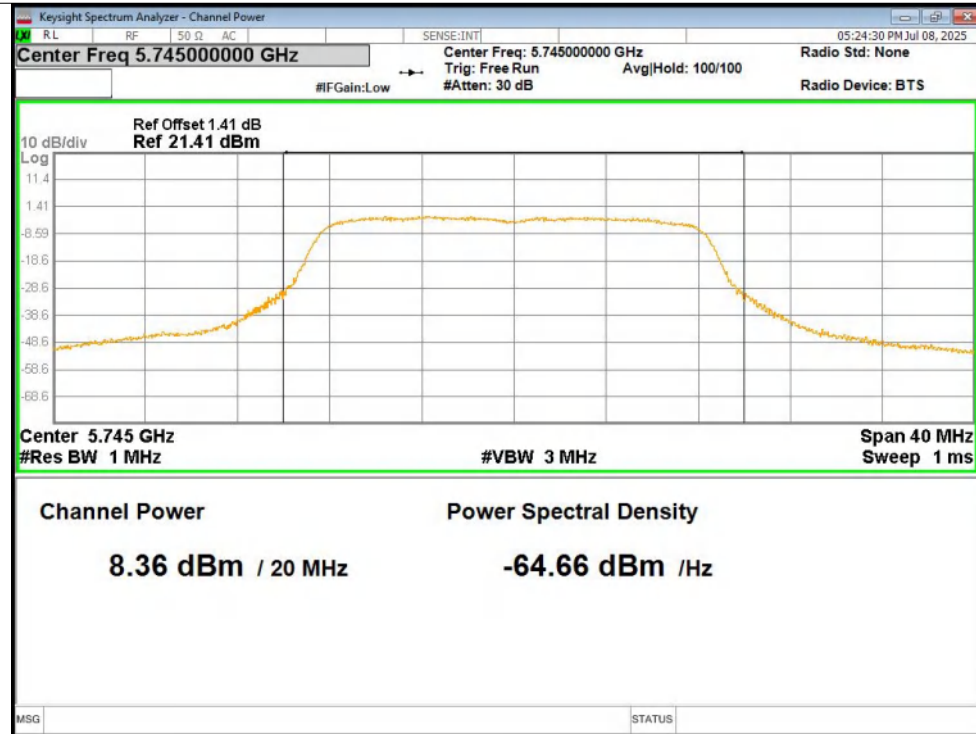
5.8GWIFI (5745MHz-5825 MHz)

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	8.36	1.31	9.67	30	Pass
NVNT	a	5785	Ant1	7.63	1.06	8.69	30	Pass
NVNT	a	5825	Ant1	7.16	1.12	8.28	30	Pass
NVNT	n20	5745	Ant1	8.06	1.18	9.24	30	Pass
NVNT	n20	5785	Ant1	7.48	1.18	8.66	30	Pass
NVNT	n20	5825	Ant1	6.98	1.38	8.36	30	Pass
NVNT	n40	5755	Ant1	7.29	1.76	9.05	30	Pass
NVNT	n40	5795	Ant1	6.69	1.86	8.55	30	Pass

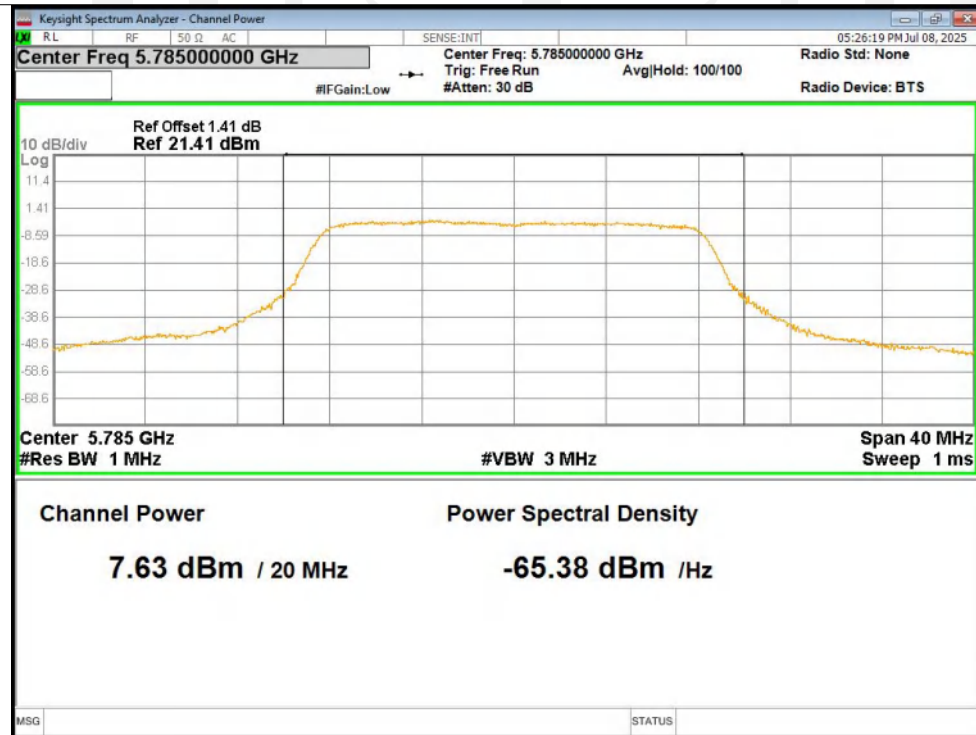


Test Graphs

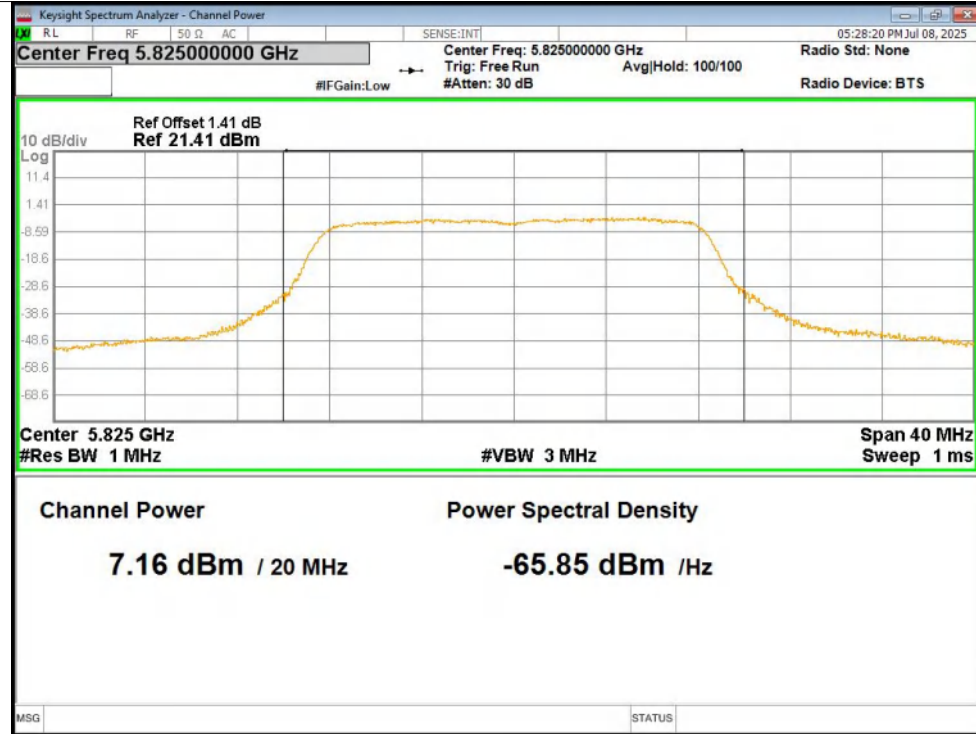
Power NVNT a 5745MHz Ant1



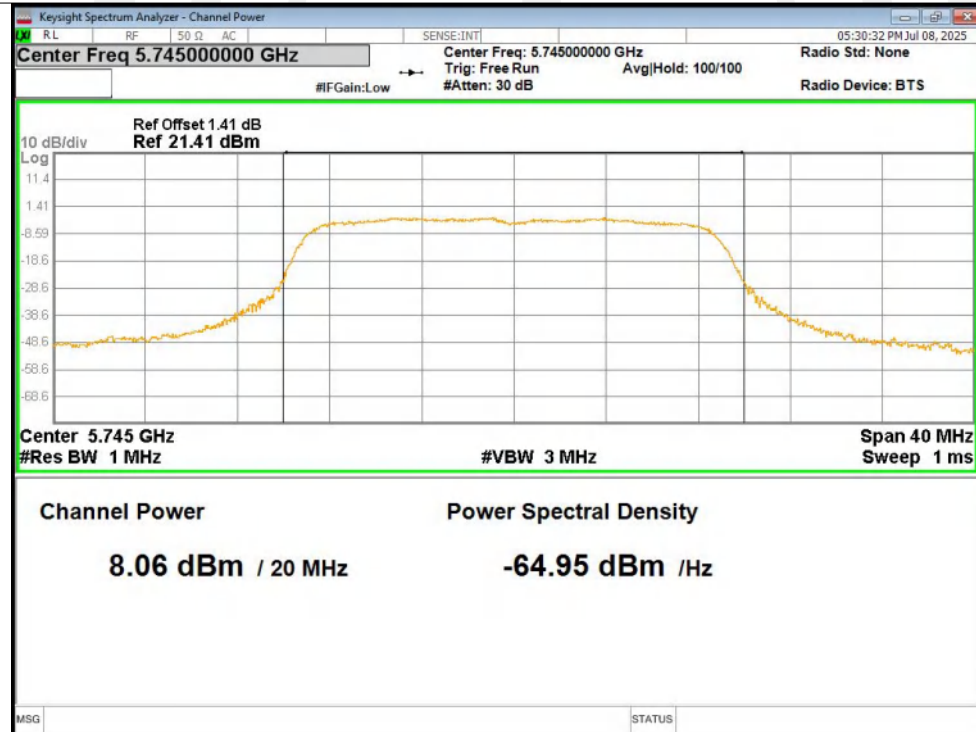
Power NVNT a 5785MHz Ant1



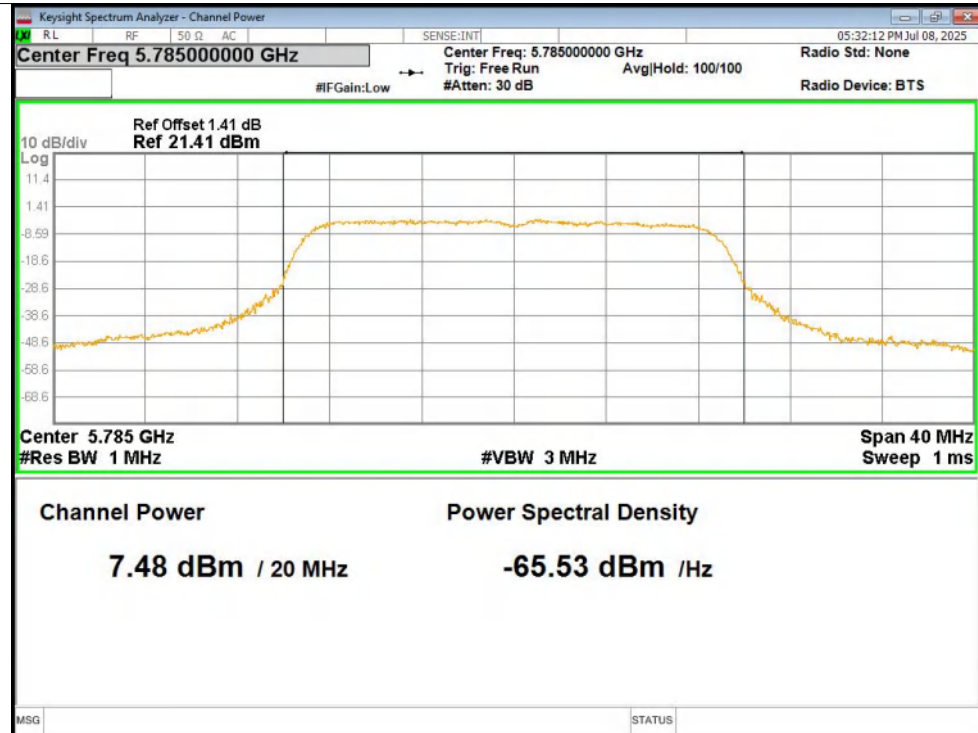
Power NVNT a 5825MHz Ant1



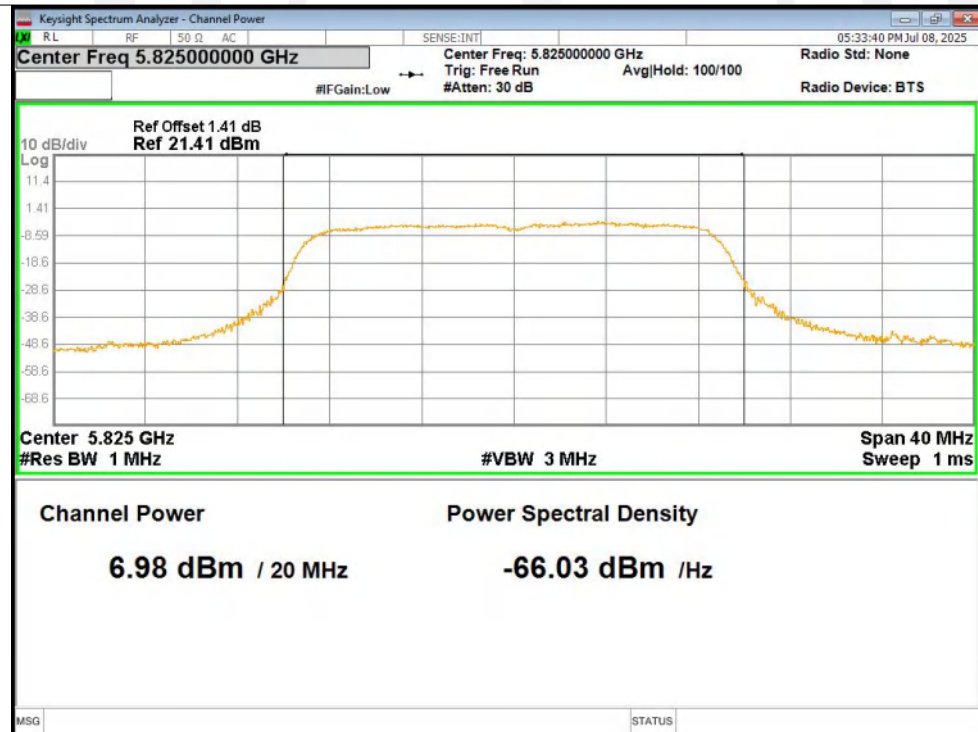
Power NVNT n20 5745MHz Ant1



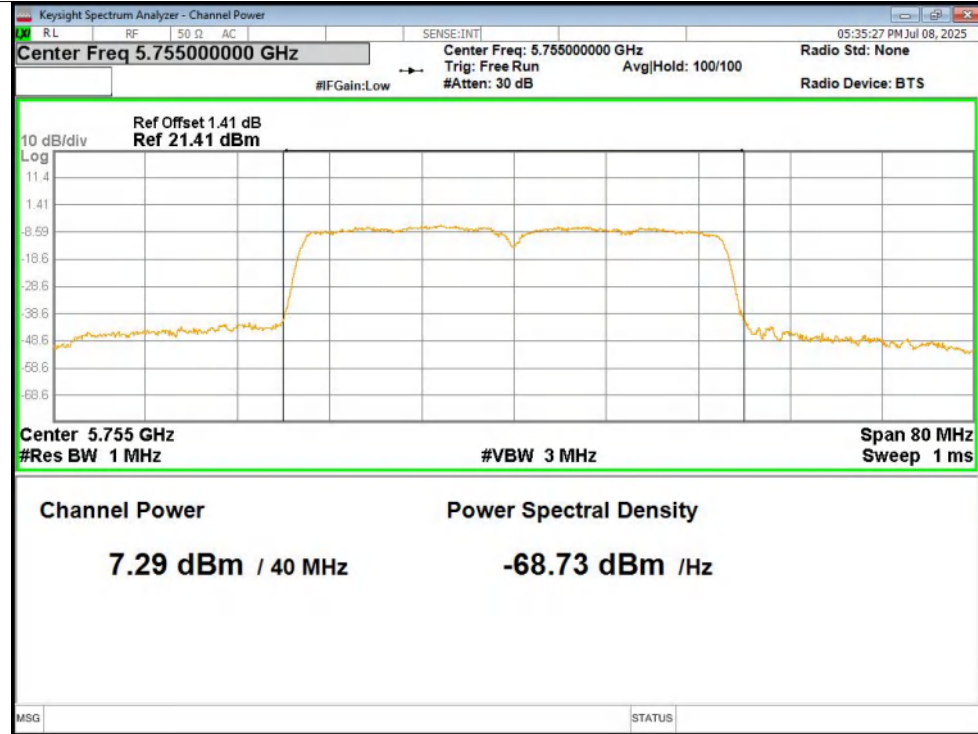
Power NVNT n20 5785MHz Ant1



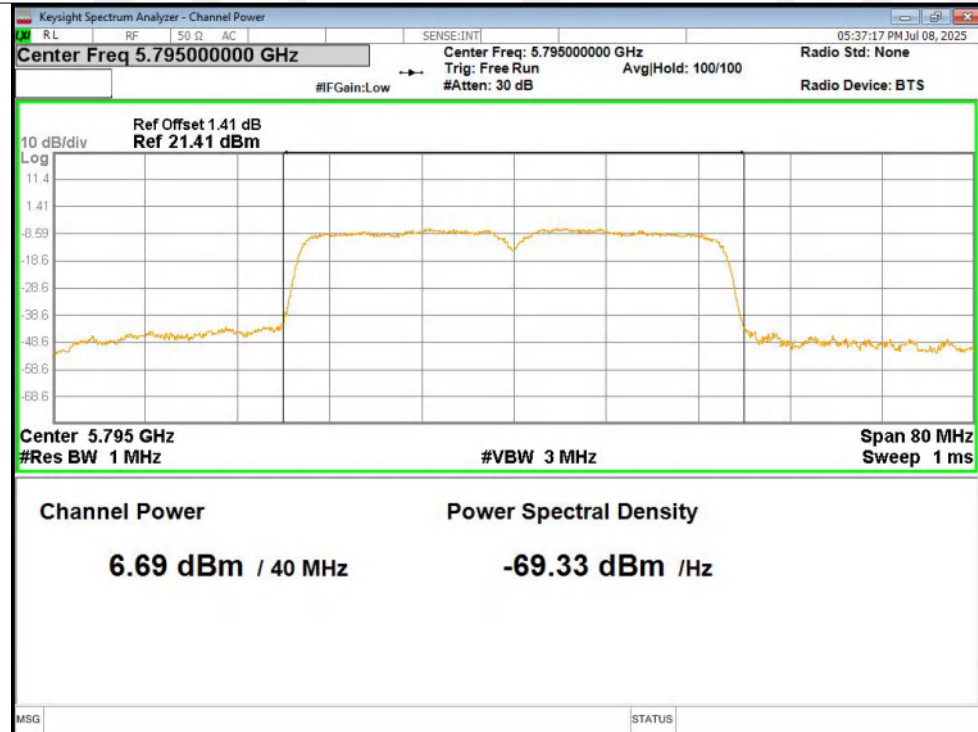
Power NVNT n20 5825MHz Ant1



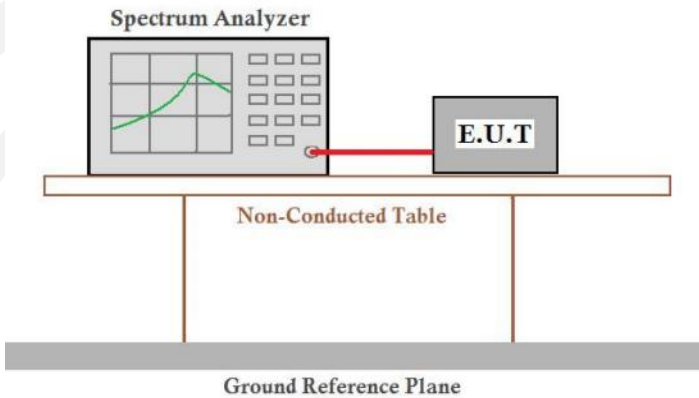
Power NVNT n40 5755MHz Ant1



Power NVNT n40 5795MHz Ant1



4.5 Power Spectral Density

Test Requirement:	FCC Part15 E Section 15.407, RSS-247 §6.2
Test Method:	KDB 789033 D02 General UNII Test Procedures New Rules v02r01
Limit:	FCC: 1. $\leq 11.00 \text{ dBm/MHz}$ for 5150MHz-5250MHz, 5250-5350MHz and 5470-5725 MHz 2. $\leq 30.00 \text{ dBm/500KHz}$ for 5725MHz-5850MHz IC: 1. For the 5.15-5.25 GHz, The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band. 2. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.
Test procedure:	1) Create an average power spectrum for the EUT operating mode being tested by following the instructions in section E)2) for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, "Compute power..." 2) Use the peak search function on the instrument to find the peak of the spectrum. 3) Make the following adjustments to the peak value of the spectrum, if applicable: a) If Method SA-2 or SA-2 Alternative was used, add $10 \log(1/x)$, where x is the duty cycle, to the peak of the spectrum. b) If Method SA-3 Alternative was used and the linear mode was used in step E)2)g)(viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging. 4) The result is the PSD.
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass

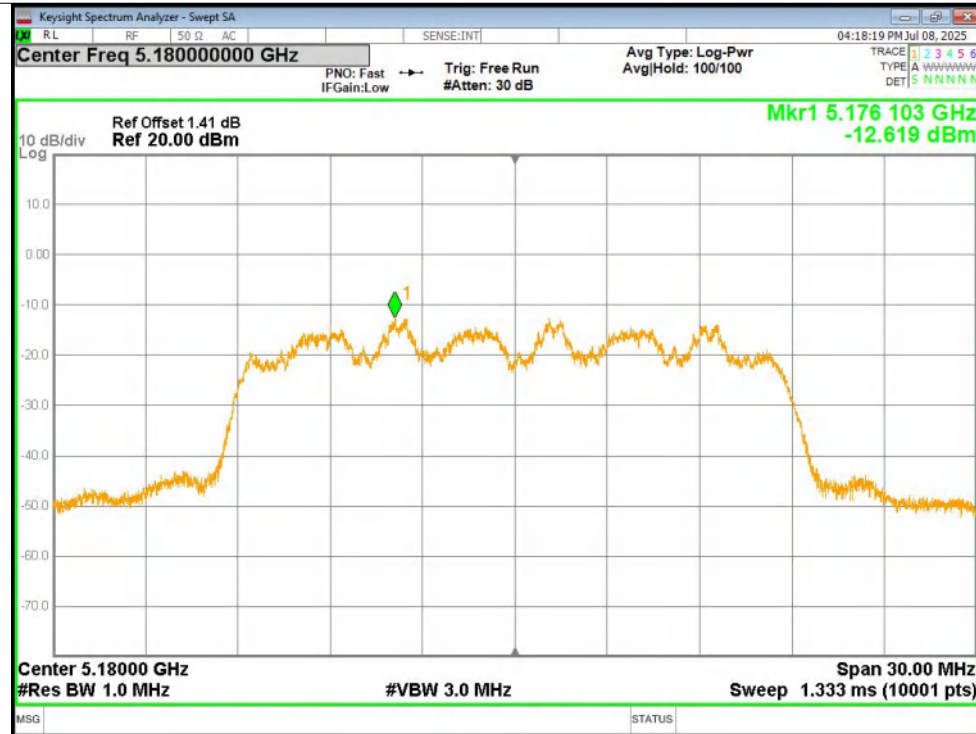
Measurement Data:

5.2GWIFI (5180-5240 MHz)

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	Ant1	-12.62	1.12	-11.5	11	Pass
NVNT	a	5200	Ant1	-10.8	1.31	-9.49	11	Pass
NVNT	a	5240	Ant1	-11.33	1.06	-10.27	11	Pass
NVNT	n20	5180	Ant1	-12.54	1.18	-11.36	11	Pass
NVNT	n20	5200	Ant1	-13.99	1.18	-12.81	11	Pass
NVNT	n20	5240	Ant1	-12.94	1.38	-11.56	11	Pass
NVNT	n40	5190	Ant1	-19.96	1.76	-18.2	11	Pass
NVNT	n40	5230	Ant1	-19.96	1.76	-18.2	11	Pass

Test Graphs

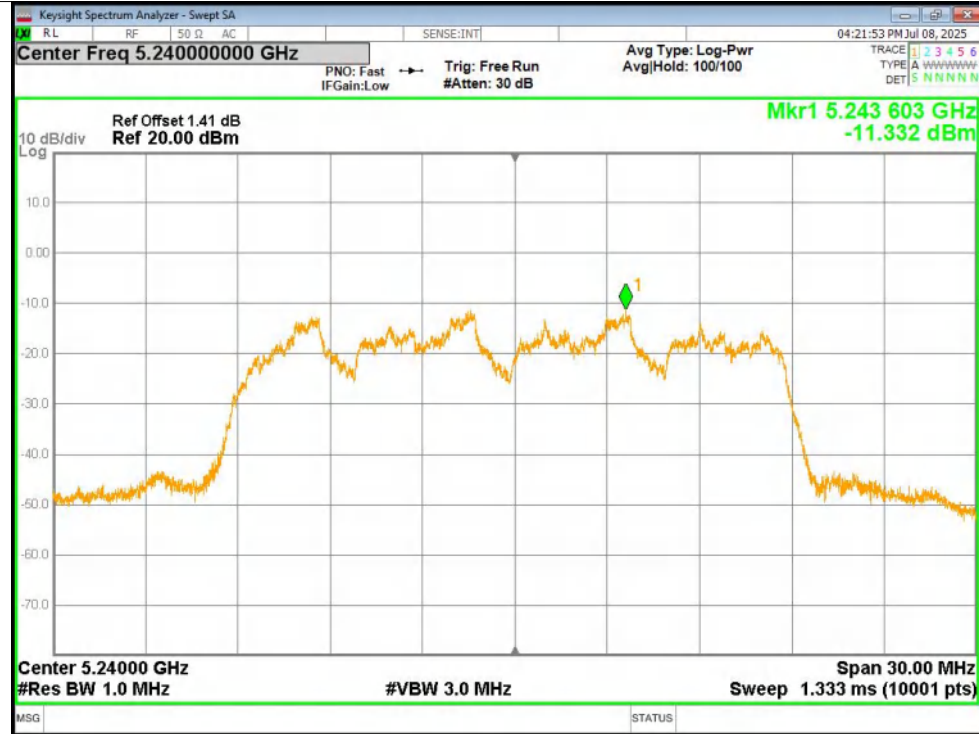
PSD NVNT a 5180MHz Ant1



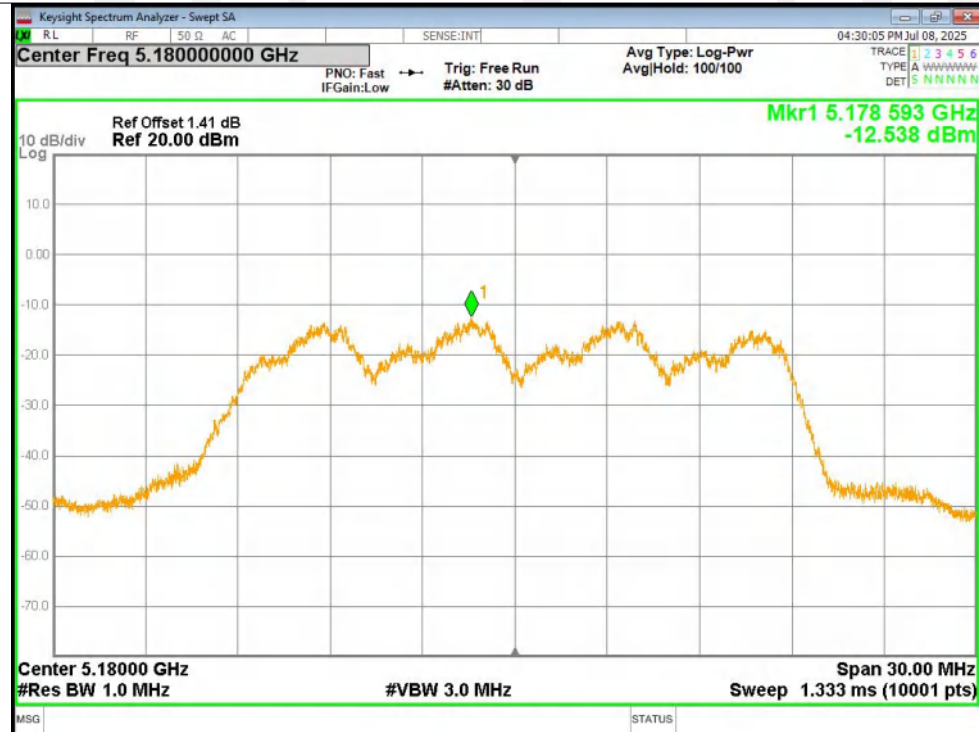
PSD NVNT a 5200MHz Ant1



PSD NVNT a 5240MHz Ant1



PSD NVNT n20 5180MHz Ant1



PSD NVNT n20 5200MHz Ant1



PSD NVNT n20 5240MHz Ant1

