



REGULATORY VERIFICATION TEST REPORT

FCC Part 15 Subpart E 15.407

ISED RSS-247 Issue 4

Report No.: DIGI134-U7a Rev B

Company: Digi International, Inc.

Model Name: CCMP25

REGULATORY VERIFICATION TEST REPORT

Company Name: Digi International, Inc.

Model Name: CCMP25

To: FCC Part 15 Subpart E 15.407 & ISSED RSS-247 Issue 4

Test Report Serial No.: DIGI134-U7a Rev B

This report supersedes: NONE

Applicant: Digi International, Inc.
9350 Excelsior Blvd., Suite 700
Hopkins, MN 55343
USA

Issue Date: 4th June 2026

This Test Report is Issued Under the Authority of:

MiCOM Labs, Inc.
575 Boulder Court
Pleasanton California 94566
USA
Phone: +1 (925) 462-0304
Fax: +1 (925) 462-0306
www.micomlabs.com



MiCOM Labs is an ISO 17025 Accredited Testing Laboratory

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1. ACCREDITATION, LISTINGS & RECOGNITION

1.1. Testing Accreditation

MiCOM Labs, Inc. is an accredited Electrical testing laboratory per the international standard ISO/IEC 17025:2017. The company is accredited by the American Association for Laboratory Accreditation (A2LA) www.a2la.org test laboratory number 2381.01. MiCOM Labs test schedule is available at the following URL; <http://www.a2la.org/scopepdf/2381-01.pdf>



Accredited Laboratory

A2LA has accredited

MICOM LABS

Pleasanton, CA

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 30th day of December 2025.



Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2381.01
Valid to November 30, 2027

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.



1.2. Recognition

MiCOM Labs, Inc. has widely recognized wireless testing and certification capabilities. In addition to being recognized for Testing and Certification under Phase 2 agreements with Canada, Europe, United Kingdom and Japan, our international recognition includes Conformity Assessment Body designation under Phase 1 agreements with APEC MRA countries. MiCOM Labs test reports are accepted globally.

Country	Recognition Body	Status	MRA Phase	Identification No.
USA	Federal Communications Commission (FCC)	TCB	-	US0159 Test Firm Designation#: US1084
Canada	Industry Canada (ISED)	FCB	APEC MRA 2	US0159 ISED#: 4143A
Japan	MIC (Ministry of Internal Affairs and Communication)	CAB	Japan MRA 2	RCB 210
	Japan Approvals Institute for Telecommunication Equipment (JATE)			
	VCCI	--	--	A-0012
Europe	European Commission	NB	EU MRA 2	NB 2280
United Kingdom	Department for Business, Energy & Industrial Strategy (BEIS)	AB	UK MRA 2	AB 2280
Indonesia	Minister of Communication and Digital Education <i>Keputusan Menteri Komunikasi Dan Digital</i>	Number 13 List of Overseas Test Labs	--	Lab n°50/2025 of Decree n°13
Mexico	Instituto Federal de Telecomunicaciones (IFT)	CAB	Mexico MRA 1	US0159
Australia	Australian Communications and Media Authority (ACMA)	CAB	APEC MRA 1	US0159
Hong Kong	Office of the Telecommunication Authority (OFTA)			
Korea	Ministry of Information and Communication Radio Research Laboratory (RRL)			
Singapore	Infocomm Development Authority (IDA)			
Taiwan	National Communications Commission (NCC)			
	Bureau of Standards, Metrology and Inspection (BSMI)			
Vietnam	Ministry of Communication (MIC)			

TCB – Telecommunications Certification Bodies (TCB)
 FCB – Foreign Certification Body
 CAB – Conformity Assessment Body
 NB – Notified Body
 AB – Approved Body
 MRA – Mutual Recognition Agreement
 MRA Phase I - recognition for product testing
 Phase II – recognition for both product testing and certification

1.3. Product Certification

MiCOM Labs, Inc. is an accredited Product Certification Body per the international standard ISO/IEC 17065:2012. The company is accredited by the American Association for Laboratory Accreditation (A2LA) www.a2la.org test laboratory number 2381.02. MiCOM Labs test schedule is available at the following URL; <http://www.a2la.org/scopepdf/2381-02.pdf>



United States of America – Telecommunication Certification Body (TCB)
Industry Canada – Certification Body, CAB Identifier – US0159
Europe – Notified Body (NB), NB Identifier - 2280
UK – Approved Body (AB), AB Identifier - 2280
Japan – Recognized Certification Body (RCB), RCB Identifier - 210

2. DOCUMENT HISTORY

Document History		
Revision	Date	Comments
Draft	3 rd July 2025	Draft report for Client Review
Rev A	7 th January 2026	Initial release
Rev B	4th June 2026	ISED Standard updated to Issue 4, removal of 6 GHz operation

In the above table the latest report revision will replace all earlier versions.

3. TEST RESULT CERTIFICATE

Manufacturer: Digi International
9350 Excelsior Blvd, Suite 700
Hopkins MN 55343
United States of America

Tested By: MiCOM Labs, Inc.
575 Boulder Court
Pleasanton California 94566
USA

Model: CCMP25

Telephone: +1 925 462 0304

Equipment Type: 802.11 & Bluetooth Radio Module

Fax: +1 925 462 0306

S/N's: 035

Test Date(s): 12th-17th, 26th-30th June 2025

Website: www.micomlabs.com

STANDARD(S)

FCC CFR 47 Part 15 Subpart E 15.407
ISED RSS-247 Issue 4

TEST RESULTS

EQUIPMENT COMPLIES

MiCOM Labs, Inc. tested the equipment mentioned in accordance with the requirements set forth in the above standards. Test results indicate that the equipment tested is capable of demonstrating compliance with the requirements as documented within this report.

Notes:

1. This document reports conditions under which testing was conducted and the results of testing performed.
2. Details of test methods used have been recorded and kept on file by the laboratory.
3. Test results apply only to the item(s) tested.

Approved & Released for MiCOM Labs, Inc. by:



Graeme Grieve
Quality Manager MiCOM Labs, Inc.

Gordon Hurst
President & CEO MiCOM Labs, Inc.

4. REFERENCES AND MEASUREMENT UNCERTAINTY

4.1. Normative References

REF.	PUBLICATION	YEAR	TITLE
I	KDB 662911 D01, D02, D03	D01 Oct 2013, D02 Oct 2011, D03 Oct 2020	Guidance for measurement of output emission of devices that employ single transmitter with multiple outputs or systems with multiple transmitters operating simultaneously in the same frequency band. 662911 D01 Multiple Transmitter Output v02r01, 662911 D02 MIMO with Cross Polarized Antenna v01, 662911 D03 MIMO Antenna Gain Measurement v01, OET 13TR1003 Directional Gain of 802 11 MIMO with CDD 04 05 2013
II	KDB 905462 D07 v02	Aug 2016	Test guidance to demonstrate compliance for U-NII devices subject to DFS requirements.
III	KDB 926956 D01 v02	Aug 2016	U-NII Device Transition Plan
IV	A2LA	24 th February 2025	R105 - Requirement's When Making Reference to A2LA Accreditation Status
V	ANSI C63.10	ANSI C63.10- 2020+Cor. 1- 2023+C63.10a- 2024 + Errata to C63.10a-2024	American National Standard for Testing Unlicensed Wireless Devices
VI	ANSI C63.4	2014 + C63.4a- 2017 Amendment	American National Standards for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
VII	ETSI TR 100 028	2001-12	Parts 1 and 2 Electromagnetic compatibility and Radio Spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics
VIII	FCC 06-96	Jun 2006	Memorandum Opinion and Order
IX	FCC 47 CFR Part 15.407	2021	Radio Frequency Devices; Subpart E –Unlicensed National Information Infrastructure Devices
X	ICES-003	Issue 7; Oct 2020	Information Technology Equipment (Including Digital Apparatus)
XI	UKAS M 3003	EDITION 6 March 2024	Expression of Uncertainty and Confidence in Measurements
XII	RSS-247 Issue 4	24 th July 2025	Digital Transmission Systems (DTSSs), Frequency Hopping System (FHSs) and Licence-Exempt Local Area Network (LE-LEN) Devices
XIII	RSS-Gen Issue 5	Amendment 1,2 (Feb 2021)	General Requirements for Compliance of Radio Apparatus. With Amendments 1: March 2019 and 2: Feb 2021.
XIV	FCC 47 CFR Part 2.1033	Feb 2023	FCC requirements and rules regarding photographs and test setup diagrams.
XV	KDB 905462 D02 v02	Apr 2016	Compliance Measurement Procedures for Unlicensed National Information Infrastructure devices operating in the 5250 to 5350 MHz and 5470 to 5725 MHz bands incorporating Dynamic Frequency Selection.

XVI	KDB 789033 D02 V02r01	Dec 2017	Guidelines For Compliance Testing Of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E
XV11	KDB 987594 D02 v03	Oct 2024	Compliance Testing of Unlicensed National Information Infrastructure 6GHz (U-NII) Devices Part 15 , Subpart E

4.2. Test and Uncertainty Procedure

Conducted and radiated emission measurements were conducted in accordance with American National Standards Institute ANSI C63.4, listed in the Normative References section of this report.

Measurement uncertainty figures are calculated in accordance with ETSI TR 100 028 Parts 1 and 2.

Measurement uncertainties stated are based on a standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95 % in accordance with UKAS document M 3003 listed in the Normative References section of this report.

5. PRODUCT DETAILS AND TEST CONFIGURATIONS

5.1. Technical Details

Details	Description																																																																																																			
Purpose:	Test of the Digi International, Inc CCMP25 to FCC CFR 47 Part 15 Subpart E 15.407 and ISSED RSS-247 Issue 4.																																																																																																			
Applicant:	Digi International, Inc. 9350 Excelsior Blvd., Suite 700, Hopkins MN 55343, USA																																																																																																			
Manufacturer:	Digi International, Inc																																																																																																			
Laboratory performing the tests:	MiCOM Labs, Inc. 575 Boulder Court Pleasanton California 94566 USA																																																																																																			
Test report reference number:	DIGI134-U7a																																																																																																			
Date EUT received:	9 th April 2025																																																																																																			
Standard(s) applied:	FCC CFR 47 Part 15 Subpart E 15.407, ISSED RSS-247 Issue 4																																																																																																			
Dates of test (from - to):	12 th -17 th ,26 th -30 th June 2025																																																																																																			
No of Units Tested:	1																																																																																																			
Product Family Name:	ConnectCore																																																																																																			
Model(s):	CCMP25																																																																																																			
Location for use:	Indoors and Outdoor																																																																																																			
Declared Frequency Range(s):	5150 - 5250; 5250 - 5350; 5470 - 5725; 5725 – 5850																																																																																																			
Type of Modulation:	OFDM																																																																																																			
EUT Modes of Operation:	5150 - 5250 MHz: a; HT-20; HE-20 5250 - 5350 MHz: a; HT-20; HE-20 5470 - 5725 MHz: a; HT-20; HE-20 5725 - 5850 MHz: a; HT-20; HE-20																																																																																																			
Transmit/Receive Operation:	Transceiver																																																																																																			
Rated Input Voltage and Current:	5 VDC 2A																																																																																																			
Operating Temperature Range:	-40 °C to +85 °C																																																																																																			
ITU Emission Designator:	<table><tr><th colspan="4">EQUIPMENT DETAIL</th><th rowspan="2">Emission Classification</th></tr><tr><th>Frequency Range (MHz)</th><th>RF Power (Watts) Field Strength (dBuV/m)</th><th>Antenna Type</th><th>Necessary Bandwidth (Hz)</th></tr><tr><td>2402 - 2480</td><td>0.008</td><td>Note 1</td><td>859K</td><td>F1D</td></tr><tr><td>2402 - 2480</td><td>0.004</td><td>Note 1</td><td>1M20</td><td>G1D</td></tr><tr><td>2402 - 2480</td><td>0.008</td><td>Note 1</td><td>2M10</td><td>F1D</td></tr><tr><td>2412 - 2462</td><td>0.119</td><td>Note 1</td><td>13M7</td><td>G1D</td></tr><tr><td>2412 - 2462</td><td>0.086</td><td>Note 1</td><td>18M0</td><td>W7D</td></tr><tr><td>2412 - 2462</td><td>0.058</td><td>Note 1</td><td>19M3</td><td>W7D</td></tr><tr><td>5180 - 5240</td><td>0.039</td><td>Note 2</td><td>17M8</td><td>W7D</td></tr><tr><td>5180 - 5240</td><td>0.035</td><td>Note 2</td><td>19M4</td><td>W7D</td></tr><tr><td>5260 - 5320</td><td>0.058</td><td>Note 2</td><td>17M8</td><td>W7D</td></tr><tr><td>5260 - 5320</td><td>0.036</td><td>Note 2</td><td>19M4</td><td>W7D</td></tr><tr><td>5500 - 5720</td><td>0.058</td><td>Note 2</td><td>17M9</td><td>W7D</td></tr><tr><td>5500 - 5720</td><td>0.036</td><td>Note 2</td><td>19M4</td><td>W7D</td></tr><tr><td>5745 - 5825</td><td>0.056</td><td>Note 2</td><td>17M9</td><td>W7D</td></tr><tr><td>5745 - 5825</td><td>0.037</td><td>Note 2</td><td>19M4</td><td>W7D</td></tr><tr><td>5955 - 7095</td><td>0.032</td><td>Note 3</td><td>17M7</td><td>W7D</td></tr><tr><td>5955 - 7095</td><td>0.031</td><td>Note 3</td><td>19M3</td><td>W7D</td></tr><tr><td>5955 - 7095</td><td>0.007</td><td>Note 3</td><td>17M7</td><td>W7D</td></tr><tr><td>5955 - 7095</td><td>0.009</td><td>Note 3</td><td>19M3</td><td>W7D</td></tr></table>	EQUIPMENT DETAIL				Emission Classification	Frequency Range (MHz)	RF Power (Watts) Field Strength (dBuV/m)	Antenna Type	Necessary Bandwidth (Hz)	2402 - 2480	0.008	Note 1	859K	F1D	2402 - 2480	0.004	Note 1	1M20	G1D	2402 - 2480	0.008	Note 1	2M10	F1D	2412 - 2462	0.119	Note 1	13M7	G1D	2412 - 2462	0.086	Note 1	18M0	W7D	2412 - 2462	0.058	Note 1	19M3	W7D	5180 - 5240	0.039	Note 2	17M8	W7D	5180 - 5240	0.035	Note 2	19M4	W7D	5260 - 5320	0.058	Note 2	17M8	W7D	5260 - 5320	0.036	Note 2	19M4	W7D	5500 - 5720	0.058	Note 2	17M9	W7D	5500 - 5720	0.036	Note 2	19M4	W7D	5745 - 5825	0.056	Note 2	17M9	W7D	5745 - 5825	0.037	Note 2	19M4	W7D	5955 - 7095	0.032	Note 3	17M7	W7D	5955 - 7095	0.031	Note 3	19M3	W7D	5955 - 7095	0.007	Note 3	17M7	W7D	5955 - 7095	0.009	Note 3	19M3	W7D
EQUIPMENT DETAIL				Emission Classification																																																																																																
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5955 - 7095	0.031	Note 3	19M3	W7D																																																																																																
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5955 - 7095	0.009	Note 3	19M3	W7D																																																																																																
Equipment Dimensions:	30mm x 30mm x 3mm (1.18" x 1.18" x 0.12")																																																																																																			
Weight:	5.1 grams																																																																																																			
Hardware Rev:	55002223-01																																																																																																			
Software Rev:	82004772																																																																																																			

5.2. Scope Of Test Program

Digi International, Inc. CCMP25

The scope of the test program was to test the Digi International, Inc. CCMP25 configurations in the frequency ranges 5150 - 5250 MHz; 5250 - 5350 MHz; 5470 - 5725 MHz; 5725 - 5850 MHz; 5925 - 6425MHz; 6425 - 6525MHz; 6525 - 6875MHz; 6875 - 7125 MHz for compliance against the following specification:

FCC CFR 47 Part 15 Subpart E 15.407

Compliance Measurement Procedures for Unlicensed National Information Infrastructure devices operating in the 5150 to 5250 MHz, 5725 to 5850 MHz and band 5250 to 5350 MHz, 5470 to 5725 MHz bands.

ISSED RSS-247 Issue 4

Digital Transmission Systems (DTSs), Frequency Hopping System (FHSS) and License-Exempt Local Area Network (LE-LAN) Devices

Radio Module is pre-certified any additional tests needed may be found in the following reports:

DSS_KSCR240400056604-FCC 15.407 5G Rev. 00 Dated 03/12/2025
DSS_KSCR240400056606-FCC 15.407-6G ID Rev. 00 Dated 03/12/2025
DSS_KSCR240400056607-FCC 15.407-6G XD Rev. 00 Dated 03/12/2025

Antenna additions as per section 5.4 are being made to the CCMP25 and as such testing was limited to:

Transmitter Spurious & Band Edge Emissions.

Type	Manufacturer	Model	Family	Gain (dBi)	Frequency Band (MHz)
External	Unictron	H2B1WD1A3B0200	PCB	4	5150-5850
External	Taoglas	GW.49.A153	Dipole	3.8	5150-5850
External	Taoglas	GW.05.0153W	Dipole	3.6	5150-5850

5.3. Equipment Model(s) and Serial Number(s)

Type (EUT/ Support)	Equipment Description	Manufacturer	Model No.	Serial No.
EUT	ConnectCore MP25	Digi International, Inc.	CCMP25	035
Support	Power Adaptor (5V _{DC} , 4A)	Mean Well	NGE30I05	SC422J2649

5.4. Antenna Details

Type	Manufacturer	Model	Family	Gain (dBi)	BF Gain	Dir BW	X- Pol	Frequency Band (MHz)
*External	Unictron	H2B1WD1A3B0200	PCB	4	--	360	--	5150-5850
*External	Taoglas	GW.49.A153	Dipole	3.8 1.54	--	360	--	5150-5850
*External	Taoglas	GW.05.0153W	Dipole	3.6 4.1	--	360	--	5150-5850
External	Joymax	TWX-282BRS3B	Dipole	3.0 3.3	--	360	--	5150-5850
External	Abracon	AFB4714A-0190S	PCB	3.1 3.2	--	360	--	5150-5850

BF Gain - Beamforming Gain
Dir BW - Directional BeamWidth
X-Pol - Cross Polarization

*From the above listed antennas, the highest gain for each type (representing worst case conditions) was tested.

5.5. Cabling and I/O Ports

Port Type	Max Cable Length	# of Ports	Screened	Conn Type	Data Type
Antenna	< 1m	1	No	UFL	Digital
Antenna	< 1m	1	No	SMA	Digital
Ethernet	>3m	2	No	RJ-45	Digital
USB	>3m	2	No	USB-A	Digital
Console	>3m	1	No	USB-C	Digital
USB	>3m	1	No	USB-C	Digital
DC input	3m	1	No	Female Jack Socket	N/A

5.6. Test Configurations

Results for the following configurations are provided in this report:

Operational Mode(s) (802.11a/n/ac)	Data Rate with Highest Power MBit/s	Channel Frequency (MHz)		
		Low	Mid	High
5150 - 5250 MHz				
a	6	5,180.00	5,200.00	5,240.00
HT-20	6.5	5,180.00	5,200.00	5,240.00
HE-20	8	5,180.00	5,200.00	5,240.00
5250 - 5350 MHz				
a	6	5,260.00	5,300.00	5,320.00
HT-20	6.5	5,260.00	5,300.00	5,320.00
HE-20	8	5,260.00	5,300.00	5,320.00
5470 - 5725 MHz				
a	6	5,500.00	5,580.00	5,720.00
HT-20	6.5	5,500.00	5,580.00	5,720.00
HE-20	8	5,500.00	5,580.00	5,720.00
5725 - 5850 MHz				
a	6	5,745.00	5,785.00	5,825.00
HT-20	6.5	5,745.00	5,785.00	5,825.00
HE-20	8	5,745.00	5,785.00	5,825.00

5.7. Equipment Modifications

The following modifications were required to bring the equipment into compliance:

1. NONE

5.8. Deviations from the Test Standard

The following deviations from the test standard were required in order to complete the test program:

1. NONE

6. TEST SUMMARY

List of Measurements

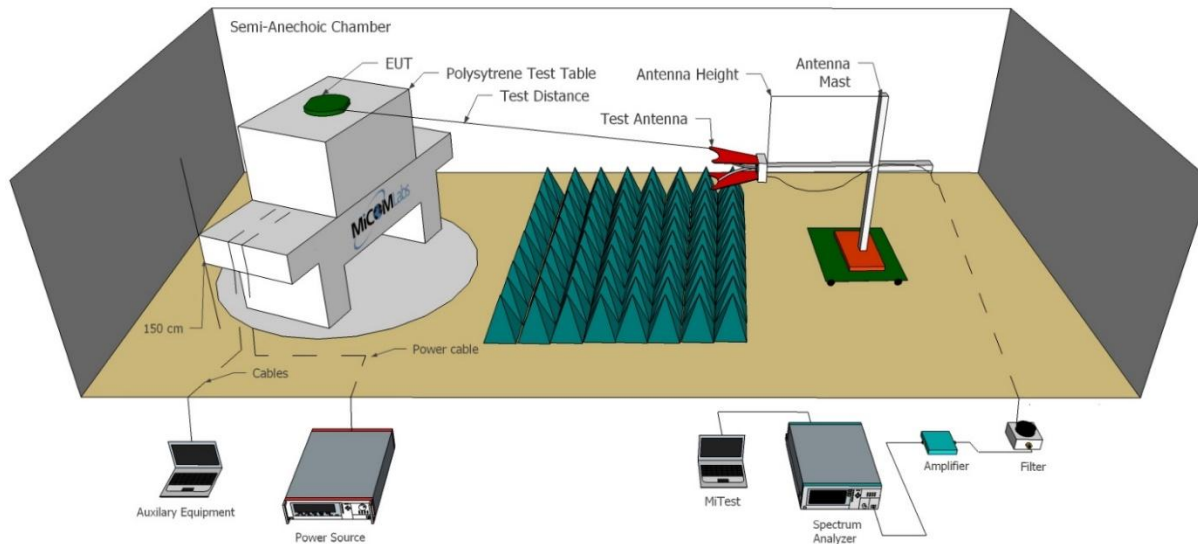
Test Header	Result	Data Link
Emissions	Complies	-
(1) Radiated Emissions	Complies	-
(i) TX Spurious & Restricted Band Emissions	Complies	View Data
(ii) Restricted Edge & Band-Edge Emissions	Complies	View Data

7. TEST EQUIPMENT CONFIGURATION(S)

7.1. Radiated Emissions

The following tests were performed using the radiated test set-up shown in the diagram below. Radiated emissions above and below 1GHz.

Radiated Emissions Above 1GHz Test Setup



Test Equipment Utilized

Asset#	Description	Manufacturer	Model#	Serial#	Calibration Due Date
170	Video System Controller for Semi Anechoic Chamber	Panasonic	WV-CU101	04R08507	Not Required
266	10 Hz to 50GHz MXA Signal Analyzer	Keysight	N9020B	MY60110791	25 Sep 2025
298	3M Radiated Emissions Chamber Maintenance Check	MiCOM	3M Chamber	298	20 Sep 2025
338	Sunol 30 to 3000 MHz Antenna	Sunol	JB3	A052907	5 Dec 2025
346	1.6 TO 10GHz High Pass Filter	EWT	EWT-57-0112	H1	13 Sep 2025
373	26III RMS Multimeter	Fluke	Fluke 26 series III	76080720	29 Sep 2025
377	Band Rejection Filter 5150to 5880MHz	Microtronics	BRM50716	034	13 Sep 2025
397	Amp 10 - 2500MHz	MiCOM Labs	Amp 10 - 2500 MHz	NA	27 Sep 2025
399	ETS 1-18 GHz Horn Antenna	ETS	3117	00154575	7 Dec 2025
406	Amplifier for Radiated Emissions	MiCOM Labs	40dB 1 to 18GHz Amp	0406	2 Sep 2025
410	Desktop Computer	Dell	Inspiron 620	WS38	Not Required
411	Mast/Turntable Controller	Sunol Sciences	SC98V	060199-1D	Not Required
412	USB to GPIB Interface	National Instruments	GPIB-USB HS	11B8DC2	Not Required
413	Mast Controller	Sunol Science	TWR95-4	030801-3	Not Required
415	Turntable Controller	Sunol Sciences	Turntable Controller	None	Not Required
416	Gigabit ethernet filter	ETS-Lindgren	Gigafoil 260366	None	Not Required
447	MiTest Rad Emissions Test Software	MiCOM	Rad Emissions Test Software Version 1.0	447	Not Required
462	Schwarzbeck cable from Antenna to Amplifier.	Schwarzbeck	AK 9513	462	18 Sep 2025
463	Schwarzbeck cable from Amplifier to Bulkhead.	Schwarzbeck	AK 9513	463	18 Sep 2025
464	Schwarzbeck cable from Bulkhead to Receiver	Schwarzbeck	AK 9513	464	16 Sep 2025
465	Low Pass Filter DC-1000MHz	Mini-Circuits	NLP-1200+	VUU01901402	14 Sep 2025
480	Cable - Bulkhead to Amp	SRC Haverhill	157-3050360	480	18 Sep 2025
481	Cable - Bulkhead to Receiver	SRC Haverhill	151-3050787	481	18 Sep 2025
510	Barometer/Thermometer	Digi Sense	68000-49	170871375	4 Jan 2026

554	Precision SMA Cable	Fairview Microwave	SCE1806010 1-400CM	554	18 Sep 2025
555	Rhode & Schwarz Receiver (Firmware Version: 2.00 SP1)	Rhode & Schwarz	ESW 44	101893	28 Aug 2025
579	5900 MHz - 7200 MHz Notch Filter	Microtronics	BRM50741	G001	21 Sep 2025
596	DC Power Supply	Keysight	E36155A	MY63001023	17 Jan 2026
87	Uninterruptible Power Supply	Falcon Electric	ED2000-1/2LC	F3471 02/01	Cal when used
CC05	Confidence Check	MiCOM	CC05	None	20 Sep 2025

8. MEASUREMENT AND PRESENTATION OF TEST DATA

The measurement and graphical data presented in this test report was generated automatically using state-of-the-art technology creating an easy to read report structure. Numerical measurement data is separated from supporting graphical data (plots) through hyperlinks. Numerical measurement data can be reviewed without scrolling through numerous graphical pages to arrive at the next data matrix.

Plots have been relegated into the Appendix 'Graphical Data'.

Test and report automation was performed by [MiTest](#). [MiTest](#) is an automated test system developed by MiCOM Labs. [MiTest](#) is the first cloud based modular test system enabling end-to-end automation of regulatory compliance testing for conducted RF testing.



The MiCOM Labs "[MiTest](#)" Automated Test System" (Patent Pending)

9. TEST RESULTS

9.1. Radiated Emissions

Radiated Test Conditions for Radiated Spurious and Band-Edge Emissions (Restricted Bands)			
Standard:	FCC CFR 47:15.407 ISED RSS-247	Ambient Temp. (°C):	20.0 - 24.5
Test Heading:	Radiated Spurious and Band-Edge Emissions	Rel. Humidity (%):	32 - 45
Standard Section(s):	15.205, 15.209 RSS-247:5.5	Pressure (mBars):	999 - 1001
Reference Document(s):	See Normative References		

Test Procedure for Radiated Spurious and Band-Edge Emissions (Restricted Bands)

Radiated emissions for restricted bands above 1 GHz are measured in the anechoic chamber at a 3-meter distance on every azimuth in both horizontal and vertical polarities. The emissions are recorded and maximized as a function of azimuth by rotation through 360° with a spectrum analyzer in peak hold mode. Depending on the frequency band spanned a notch filter and waveguide filter was used to remove the fundamental frequency. The highest emissions relative to the limit are listed for each frequency spanned. Measurements on any restricted band frequency or frequencies above 1 GHz are based on the use of measurement instrumentation employing peak and average detectors. All measurements were performed using a resolution bandwidth of 1 MHz.

Test configuration and setup for Radiated Spurious and Band-Edge Measurement were per the Radiated Test Set-up specified in this document.

Orientation testing of the EUT was performed and the EUT standing upright was determined to be the worst case for Spurious and Band Edge emissions with the integral antennas attached.

Limits for [Restricted Bands](#)
Peak emission: 74 dBuV/m
Average emission: 54 dBuV/m
Average Measurements were performed following ANSI C63.10 section 11.12.2.5.2 Trace averaging across on and off times of the EUT transmissions followed by a duty cycle correction.
RMS detector used, DCCF of 10log (1/D) where D is the Duty Cycle.

Field Strength Calculation
The field strength is calculated by adding the Antenna Factor and Cable Loss, and subtracting Amplifier Gain from the measured reading. All factors are included in the reported data.
FS = R + AF + CORR - FO

where:
FS = Field Strength
R = Measured Spectrum analyzer Input Amplitude
AF = Antenna Factor
CORR = Correction Factor = CL – AG + NFL
CL = Cable Loss
AG = Amplifier Gain
FO = Distance Falloff Factor
NFL = Notch Filter Loss or Waveguide Loss

Example:
Given receiver input reading of 51.5 dBmV; Antenna Factor of 8.5 dB; Cable Loss of 1.3 dB; Falloff Factor of 0 dB, an Amplifier Gain of 26 dB and Notch Filter Loss of 1 dB. The Field Strength (FS) of the measured emission is:

FS = 51.5 + 8.5 + 1.3 - 26.0 + 1 = 36.3 dBmV/m

Conversion between dBmV/m (or dBmV) and mV/m (or mV) are as follows:
Level (dBmV/m) = 20 * Log (level (mV/m))
40 dBmV/m = 100 mV/m
48 dBmV/m = 250 mV/m

Restricted Bands of Operation (15.205)

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

Frequency Band			
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			

(b) Except as provided in paragraphs (d) and (e) of this section, the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in §15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in §15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in §15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in §15.35 apply to these measurements.

(c) Except as provided in paragraphs (d) and (e) of this section, regardless of the field strength limits specified elsewhere in this subpart, the provisions of this section apply to emissions from any intentional radiator.

(d) The following devices are exempt from the requirements of this section:

- (1) Swept frequency field disturbance sensors operating between 1.705 and 37 MHz provided their emissions only sweep through the bands listed in paragraph (a) of this section, the sweep is never stopped with the fundamental emission within the bands listed in paragraph (a) of this section, and the fundamental emission is outside of the bands listed in paragraph (a) of this section more than 99% of the time the device is actively transmitting, without compensation for duty cycle.
- (2) Transmitters used to detect buried electronic markers at 101.4 kHz which are employed by telephone companies.
- (3) Cable locating equipment operated pursuant to §15.213.
- (4) Any equipment operated under the provisions of §15.253, 15.255, and 15.256 in the frequency band 75-85 GHz, or §15.257 of this part.
- (5) Biomedical telemetry devices operating under the provisions of §15.242 of this part are not subject to the restricted band 608-614 MHz but are subject to compliance within the other restricted bands.
- (6) Transmitters operating under the provisions of subparts D or F of this part.
- (7) Devices operated pursuant to §15.225 are exempt from complying with this section for the 13.36-13.41 MHz band only.
- (8) Devices operated in the 24.075-24.175 GHz band under §15.245 are exempt from complying with the requirements of this section for the 48.15-48.35 GHz and 72.225-72.525 GHz bands only, and shall not exceed the limits specified in §15.245(b).
- (9) Devices operated in the 24.0-24.25 GHz band under §15.249 are exempt from complying with the requirements of this section for the 48.0-48.5 GHz and 72.0-72.75 GHz bands only, and shall not exceed the limits specified in §15.249(a).

(e) Harmonic emissions appearing in the restricted bands above 17.7 GHz from field disturbance sensors operating under the provisions of §15.245 shall not exceed the limits specified in §15.245(b).

9.1.1. TX Spurious & Restricted Band Emissions

5GHz Wi-Fi

H2B1WD1A3B0200

**** No emissions were observed from 18GHz – 40 GHz**

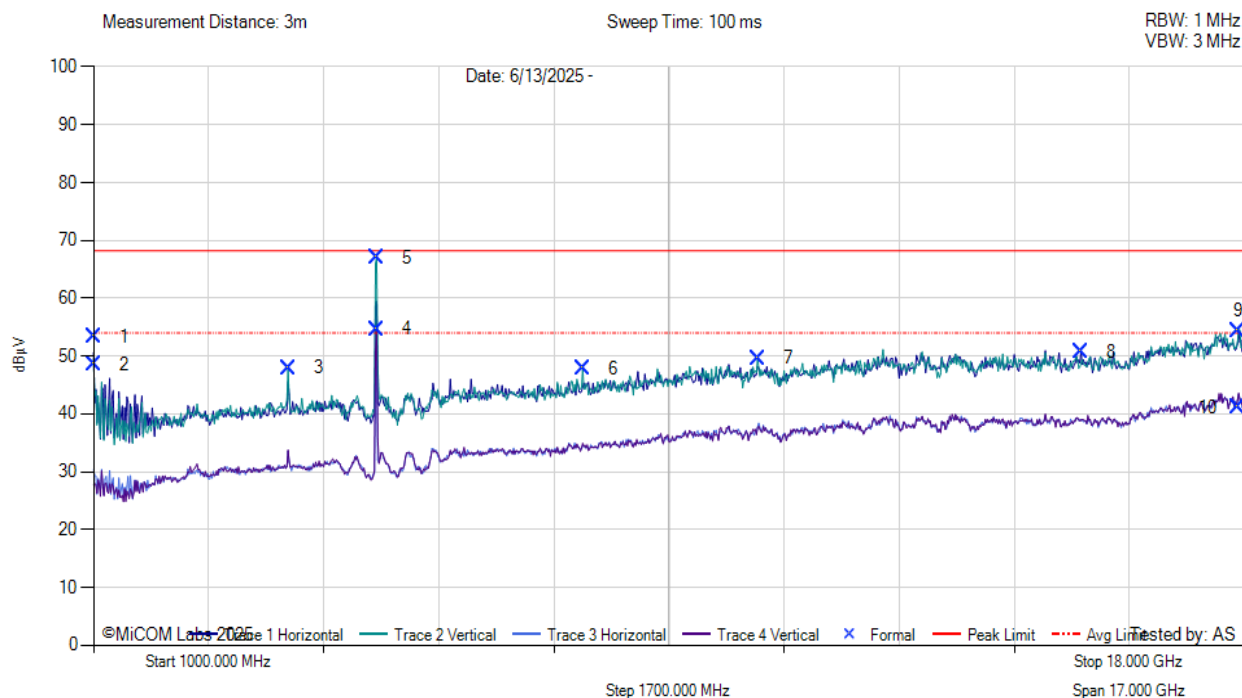
Equipment Configuration for FCC Spurious 1 GHz -18 GHz

Antenna:	H2B1WD1A3B0200	Variant:	802.11a
Antenna Gain (dBi):	4	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5180	Data Rate (Mb/s):	6
Power Setting:	Max Power	Tested By:	AS

Test Measurement Results



FCC Spurious 1 GHz -18 GHz



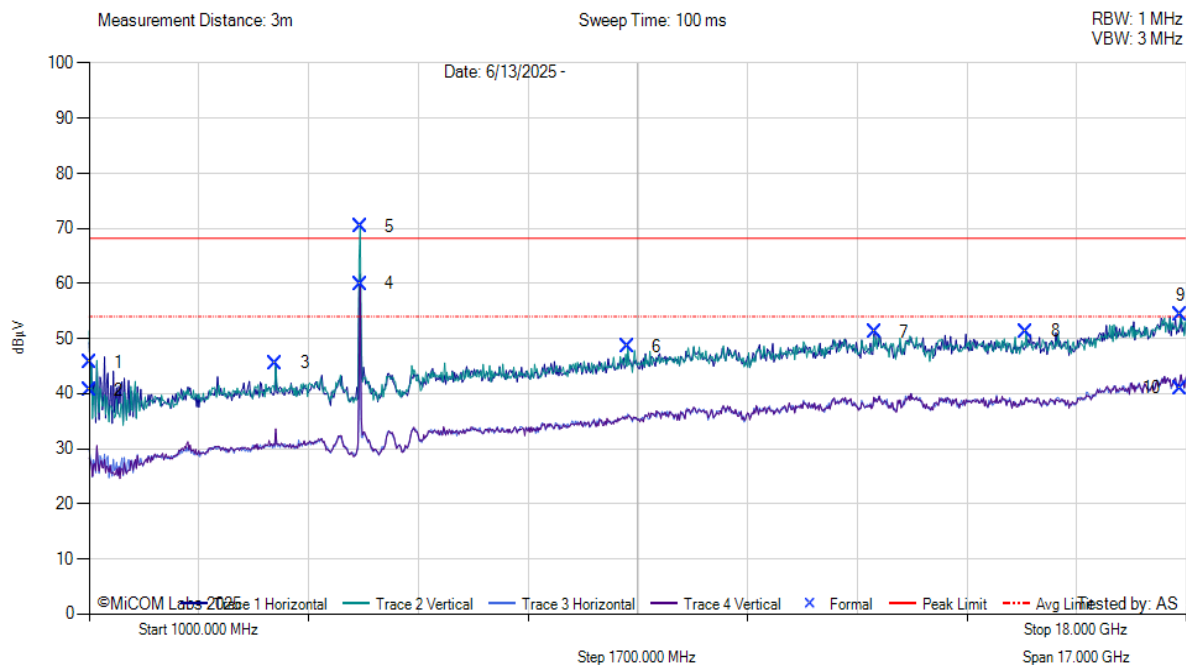
1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	1000.04	69.48	1.27	-17.35	53.41	MaxP	Horizontal	123	132	68.2	-14.8	Pass
2	1000.04	64.61	1.27	-17.35	48.53	AVG	Horizontal	123	132	54.0	-5.5	Pass
3	3873.00	57.33	2.52	33.47	47.91	MaxP	Vertical	149	119	68.2	-20.3	Pass
4	5182.00	63.52	2.97	34.19	54.61	Fundamental	--	--	--	--	--	Pass
5	5182.00	75.97	2.97	34.19	67.06	Fundamental	--	--	--	--	--	Pass
6	8225.00	51.91	3.91	35.77	47.76	MaxP	Vertical	100	59	68.2	-20.5	Pass
7	10809.00	49.55	4.70	37.76	49.59	MaxP	Vertical	149	239	68.2	-18.6	Pass
8	15586.00	47.81	5.67	40.29	50.77	MaxP	Horizontal	149	300	68.2	-17.5	Pass
9	17911.44	46.30	6.76	1.25	54.31	MaxP	Vertical	101	231	68.2	-13.9	Pass
10	17911.44	33.04	6.76	1.25	41.05	AVG	Vertical	101	231	54.0	-12.9	Pass
Test Notes: 802.11a 5180MHz H2B1WD1A3B0200 Ch 36												

Equipment Configuration for FCC Spurious 1 GHz -18 GHz

Antenna:	H2B1WD1A3B0200	Variant:	802.11a
Antenna Gain (dBi):	4	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5200	Data Rate (Mb/s):	6
Power Setting:	Max Power	Tested By:	AS

Test Measurement Results

FCC Spurious 1 GHz -18 GHz



1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	1000.00	61.80	1.27	-17.35	45.72	MaxP	Vertical	148	303	68.2	-22.5	Pass
2	1000.00	56.75	1.27	-17.35	40.67	AVG	Vertical	148	303	54.0	-13.3	Pass
3	3890.00	55.00	2.53	33.46	45.54	MaxP	Vertical	149	119	68.2	-22.7	Pass
4	5199.00	69.10	2.98	34.22	59.90	Fundamental	--	--	--	--	--	Pass
5	5199.00	79.61	2.98	34.22	70.41	Fundamental	--	--	--	--	--	Pass
6	9347.00	51.00	4.30	36.40	48.52	MaxP	Vertical	149	179	68.2	-19.7	Pass
7	13172.00	52.56	5.30	38.97	51.23	MaxP	Horizontal	100	120	68.2	-17.0	Pass
8	15518.00	48.43	5.59	40.20	51.27	MaxP	Vertical	101	0	68.2	-17.0	Pass
9	17910.41	46.28	6.73	1.24	54.25	MaxP	Vertical	99	148	68.2	-14.0	Pass
10	17910.41	33.00	6.73	1.24	40.97	AVG	Vertical	99	148	54.0	-13.0	Pass

Test Notes: 802.11a 5200MHz H2B1WD1A3B0200 Ch 40

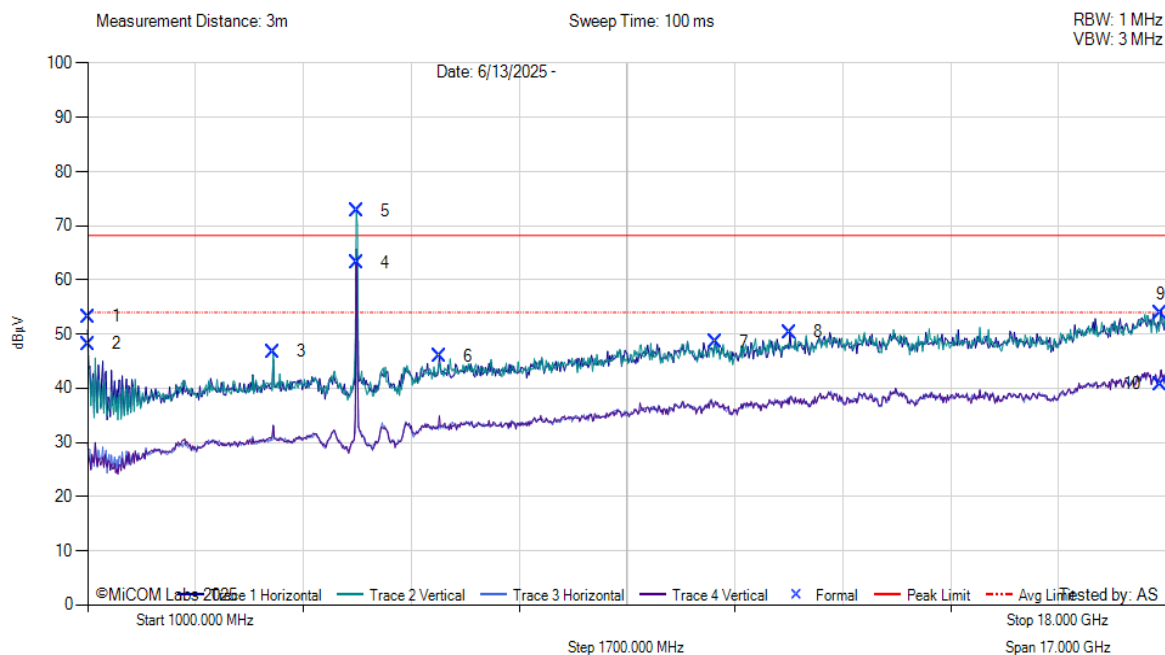
Equipment Configuration for FCC Spurious 1 GHz -18 GHz

Antenna:	H2B1WD1A3B0200	Variant:	802.11a
Antenna Gain (dBi):	4	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5240	Data Rate (Mb/s):	6
Power Setting:	Max Power	Tested By:	AS

Test Measurement Results



FCC Spurious 1 GHz -18 GHz



1000.00 - 18000.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	1000.00	69.27	1.27	-17.35	53.19	MaxP	Horizontal	129	134	68.2	-15.0	Pass
2	1000.00	64.30	1.27	-17.35	48.23	AVG	Horizontal	129	134	54.0	-5.8	Pass
3	3924.00	56.23	2.52	33.45	46.75	MaxP	Vertical	149	120	68.2	-21.5	Pass
4	5233.00	71.97	3.05	34.26	63.20	Fundamental	--	--	--	--	--	Pass
5	5233.00	81.55	3.05	34.26	72.78	Fundamental	--	--	--	--	--	Pass
6	6542.00	51.41	3.37	35.66	45.93	MaxP	Horizontal	99	60	68.2	-22.3	Pass
7	10894.00	48.48	4.87	37.77	48.57	MaxP	Horizontal	99	300	68.2	-19.7	Pass
8	12067.00	51.03	4.90	38.92	50.34	MaxP	Horizontal	99	60	68.2	-17.9	Pass
9	17912.83	45.78	6.74	1.26	53.78	MaxP	Horizontal	111	162	68.2	-14.5	Pass
10	17912.83	32.76	6.74	1.26	40.76	AVG	Horizontal	111	162	54.0	-13.2	Pass

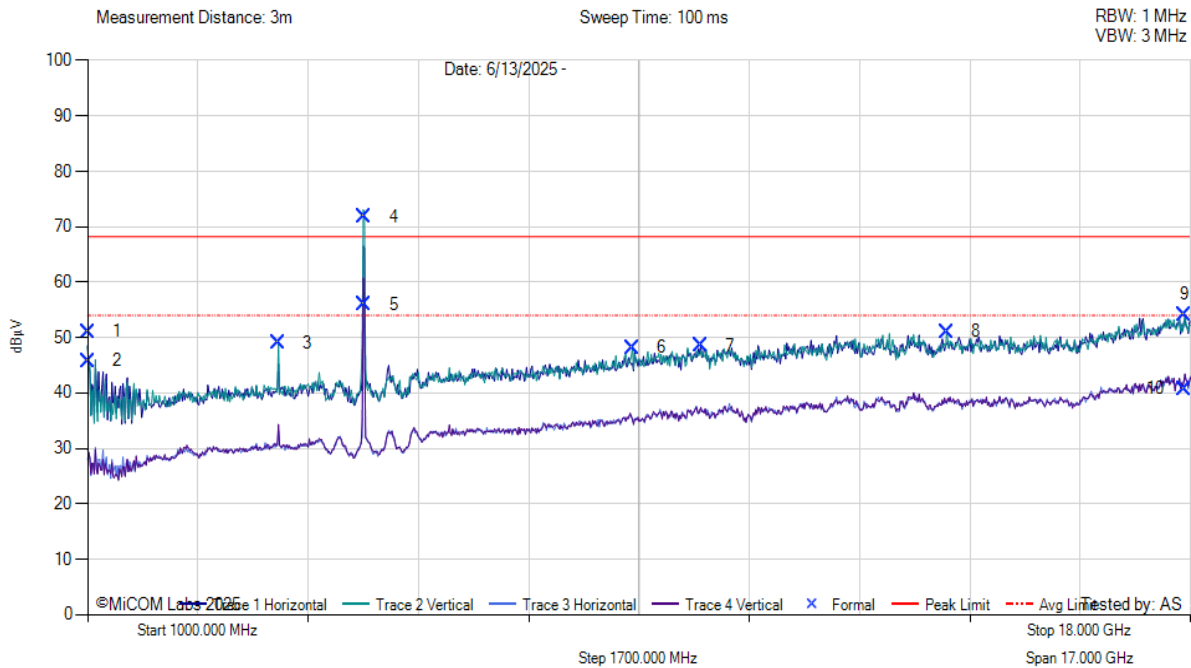
Test Notes: 802.11a 5240MHz H2B1WD1A3B0200 Ch 48

Equipment Configuration for FCC Spurious 1 GHz -18 GHz

Antenna:	H2B1WD1A3B0200	Variant:	802.11a
Antenna Gain (dBi):	4	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5260	Data Rate (Mb/s):	6
Power Setting:	Max Power	Tested By:	AS

Test Measurement Results

FCC Spurious 1 GHz -18 GHz



1000.00 - 18000.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	1000.04	67.16	1.27	-17.35	51.08	MaxP	Horizontal	141	191	68.2	-17.2	Pass
2	1000.04	61.86	1.27	-17.35	45.78	AVG	Horizontal	141	191	54.0	-8.2	Pass
3	3941.00	58.46	2.60	33.44	49.05	MaxP	Vertical	149	120	68.2	-19.2	Pass
4	5267.00	80.34	3.04	34.31	71.85	Fundamental	--	--	--	--	--	Pass
5	5267.00	64.43	3.04	34.31	55.95	Fundamental	--	--	--	--	--	Pass
6	9398.00	50.99	4.31	36.44	48.18	MaxP	Vertical	149	120	68.2	-20.1	Pass
7	10452.00	48.59	4.40	37.59	48.56	MaxP	Horizontal	100	300	68.2	-19.7	Pass
8	14243.00	53.13	5.21	39.37	51.06	MaxP	Vertical	149	59	68.2	-17.2	Pass
9	17912.15	46.14	6.76	1.26	54.16	MaxP	Vertical	134	327	68.2	-14.1	Pass
10	17912.15	32.74	6.76	1.26	40.75	AVG	Vertical	134	327	54.0	-13.3	Pass

Test Notes: 802.11a 5260MHz H2B1WD1A3B0200 Ch 52

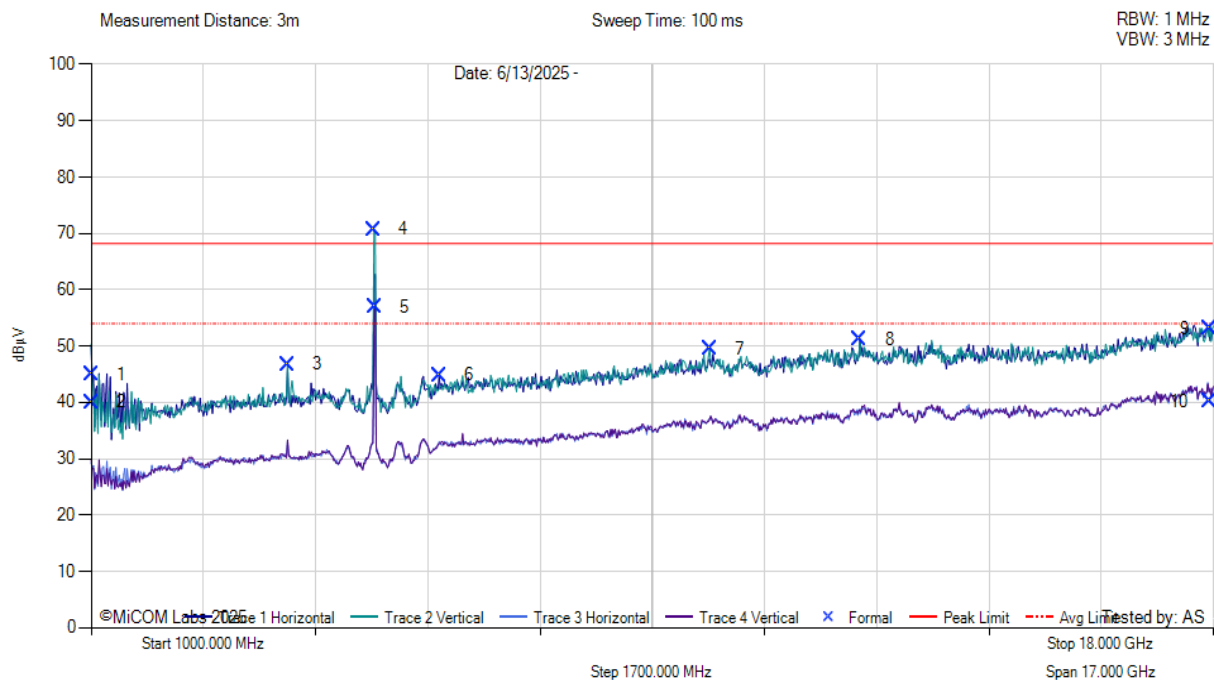
Equipment Configuration for FCC Spurious 1 GHz -18 GHz

Antenna:	H2B1WD1A3B0200	Variant:	802.11a
Antenna Gain (dBi):	4	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5300	Data Rate (Mb/s):	6
Power Setting:	Max Power	Tested By:	AS

Test Measurement Results



FCC Spurious 1 GHz -18 GHz



1000.00 - 18000.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	1000.00	61.04	1.27	27.88	44.96	MaxP	Vertical	146	306	68.2	-23.3	Pass
2	1000.00	56.11	1.27	27.88	40.03	AVG	Vertical	146	306	54.0	-14.0	Pass
3	3975.00	56.37	2.52	33.43	46.78	MaxP	Vertical	149	120	68.2	-21.4	Pass
4	5284.00	79.64	2.99	34.35	70.70	Fundamental	--	--	--	--	--	Pass
5	5301.00	65.93	3.26	34.38	56.98	Fundamental	--	--	--	--	--	Pass
6	6270.00	50.37	3.32	35.54	44.82	MaxP	Horizontal	100	180	68.2	-23.4	Pass
7	10367.00	49.60	4.31	37.52	49.48	MaxP	Vertical	149	120	68.2	-18.8	Pass
8	12645.00	52.96	5.42	39.03	51.22	MaxP	Horizontal	149	60	68.2	-17.0	Pass
9	17943.56	46.41	6.30	0.43	53.14	MaxP	Vertical	136	330	68.2	-15.1	Pass
10	17943.56	33.38	6.30	0.43	40.11	AVG	Vertical	136	330	54.0	-13.9	Pass

Test Notes: 802.11a 5300MHz H2B1WD1A3B0200 Ch 52

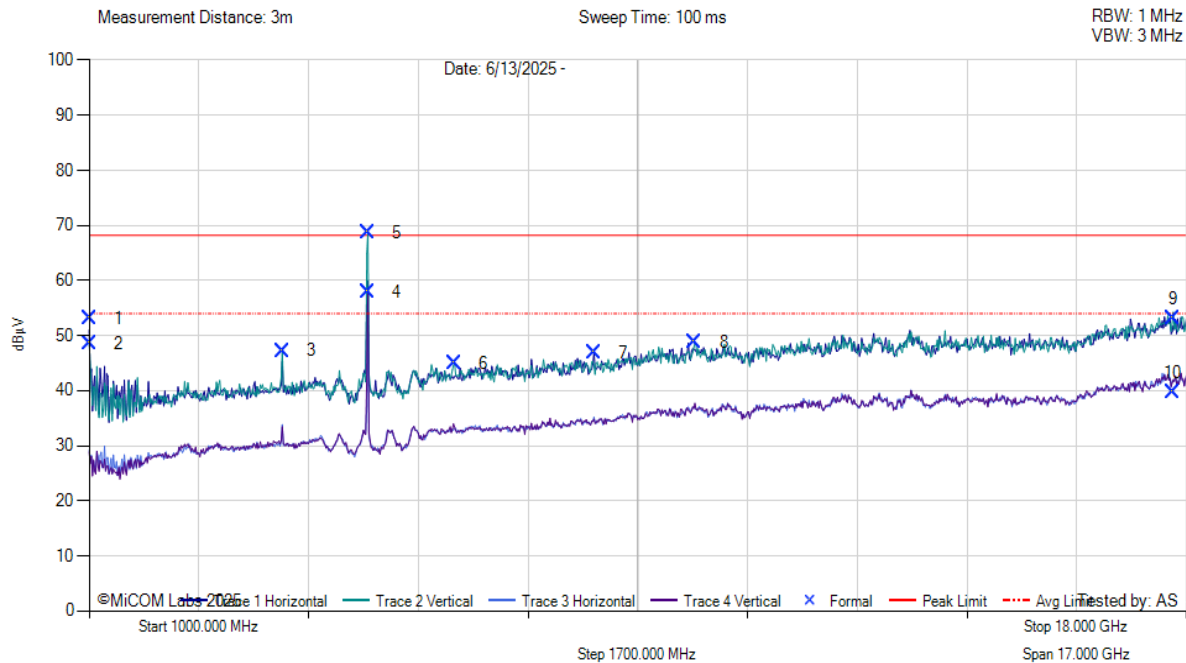
Equipment Configuration for FCC Spurious 1 GHz -18 GHz

Antenna:	H2B1WD1A3B0200	Variant:	802.11a
Antenna Gain (dBi):	4	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5320	Data Rate (Mb/s):	6
Power Setting:	Max Power	Tested By:	AS

Test Measurement Results



FCC Spurious 1 GHz -18 GHz



1000.00 - 18000.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	1000.00	69.14	1.27	-17.35	53.06	MaxP	Horizontal	141	307	68.2	-15.2	Pass
2	1000.00	64.61	1.27	-17.35	48.53	AVG	Horizontal	141	307	54.0	-5.5	Pass
3	3992.00	56.83	2.52	33.42	47.25	MaxP	Vertical	149	119	68.2	-21.0	Pass
4	5318.00	66.81	3.04	34.40	57.92	Fundamental	--	--	--	--	--	Pass
5	5318.00	77.52	3.04	34.40	68.63	Fundamental	--	--	--	--	--	Pass
6	6661.00	50.15	3.44	35.72	44.95	MaxP	Vertical	101	0	68.2	-23.3	Pass
7	8820.00	50.57	4.07	36.00	46.86	MaxP	Horizontal	100	300	68.2	-21.4	Pass
8	10384.00	48.52	4.82	37.53	48.73	MaxP	Vertical	100	0	68.2	-19.5	Pass
9	17790.28	46.52	6.59	0.01	53.12	MaxP	Vertical	105	269	68.2	-15.1	Pass
10	17790.28	33.02	6.59	0.01	39.62	AVG	Vertical	105	269	54.0	-14.4	Pass

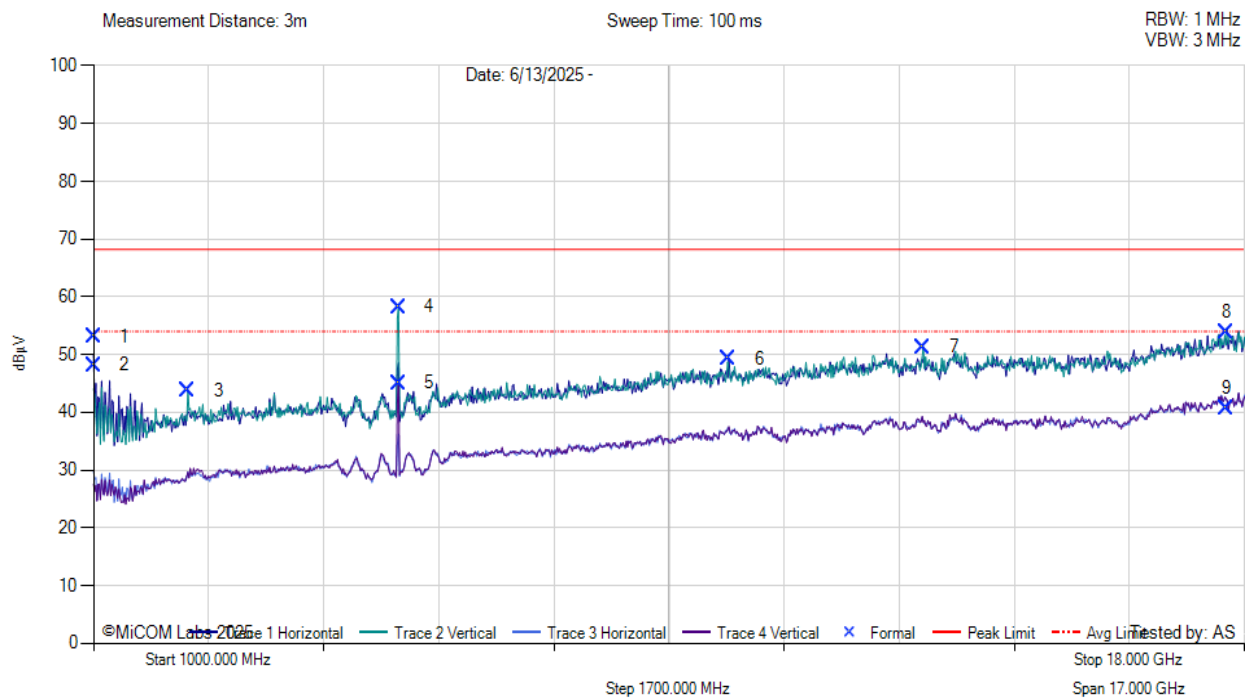
Test Notes: 802.11a 5320MHz H2B1WD1A3B0200 Ch 64

Equipment Configuration for FCC Spurious 1 GHz -18 GHz

Antenna:	H2B1WD1A3B0200	Variant:	802.11a
Antenna Gain (dBi):	4	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5500	Data Rate (Mb/s):	6
Power Setting:	Max Power	Tested By:	AS

Test Measurement Results

FCC Spurious 1 GHz -18 GHz



1000.00 - 18000.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	1000.00	69.24	1.27	27.88	53.16	MaxP	Horizontal	129	124	68.2	-15.1	Pass
2	1000.00	64.25	1.27	27.88	48.17	AVG	Horizontal	129	124	54.0	-5.8	Pass
3	2394.00	53.97	1.96	32.16	43.77	MaxP	Vertical	149	0	68.2	-24.5	Pass
4	5505.00	66.75	3.11	34.53	58.28	Fundamental	--	--	--	--	--	Pass
5	5505.00	53.57	3.11	34.53	45.11	Fundamental	--	--	--	--	--	Pass
6	10384.00	49.10	4.82	37.53	49.31	MaxP	Horizontal	149	0	68.2	-18.9	Pass
7	13257.00	52.91	4.93	39.05	51.34	MaxP	Vertical	100	0	68.2	-16.9	Pass
8	17739.22	47.16	6.41	0.21	53.78	MaxP	Vertical	149	25	68.2	-14.4	Pass
9	17739.22	34.07	6.41	0.21	40.69	AVG	Vertical	149	25	54.0	-13.3	Pass

Test Notes: 802.11a 5500MHz H2B1WD1A3B0200 Ch 100

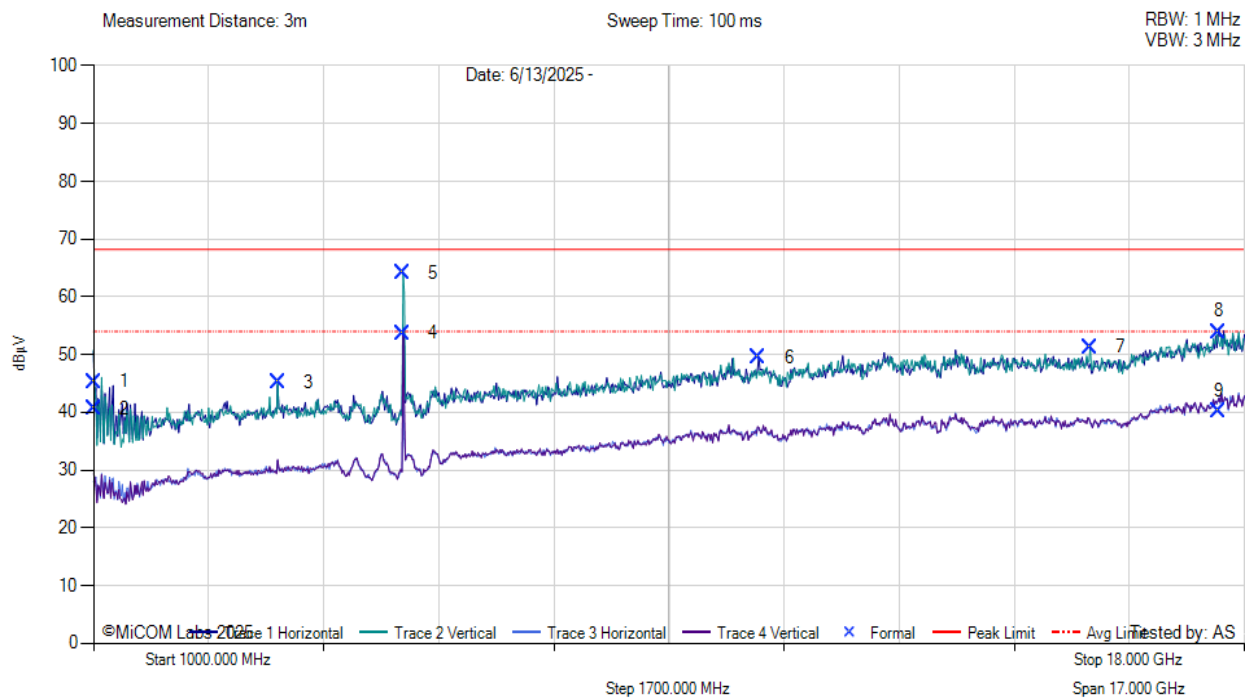
Equipment Configuration for FCC Spurious 1 GHz -18 GHz

Antenna:	H2B1WD1A3B0200	Variant:	802.11a
Antenna Gain (dBi):	4	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5580	Data Rate (Mb/s):	6
Power Setting:	Max Power	Tested By:	AS

Test Measurement Results



FCC Spurious 1 GHz -18 GHz



1000.00 - 18000.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	1000.05	61.43	1.27	-17.35	45.35	MaxP	Vertical	148	297	68.2	-22.9	Pass
2	1000.05	56.77	1.27	-17.35	40.69	AVG	Vertical	148	297	54.0	-13.3	Pass
3	3720.00	54.45	2.48	33.37	45.12	MaxP	Vertical	149	119	68.2	-23.1	Pass
4	5573.00	62.13	3.11	34.54	53.66	Fundamental	--	--	--	--	--	Pass
5	5573.00	72.53	3.11	34.54	64.06	Fundamental	--	--	--	--	--	Pass
6	10826.00	49.21	4.91	37.76	49.56	MaxP	Horizontal	149	180	68.2	-18.7	Pass
7	15722.00	47.28	5.83	40.45	51.26	MaxP	Vertical	99	179	68.2	-17.0	Pass
8	17622.28	47.95	6.38	-0.40	53.93	MaxP	Horizontal	101	187	68.2	-14.3	Pass
9	17622.28	34.21	6.38	-0.40	40.19	AVG	Horizontal	101	187	54.0	-13.8	Pass

Test Notes: 802.11a 5580MHz H2B1WD1A3B0200 Ch 116

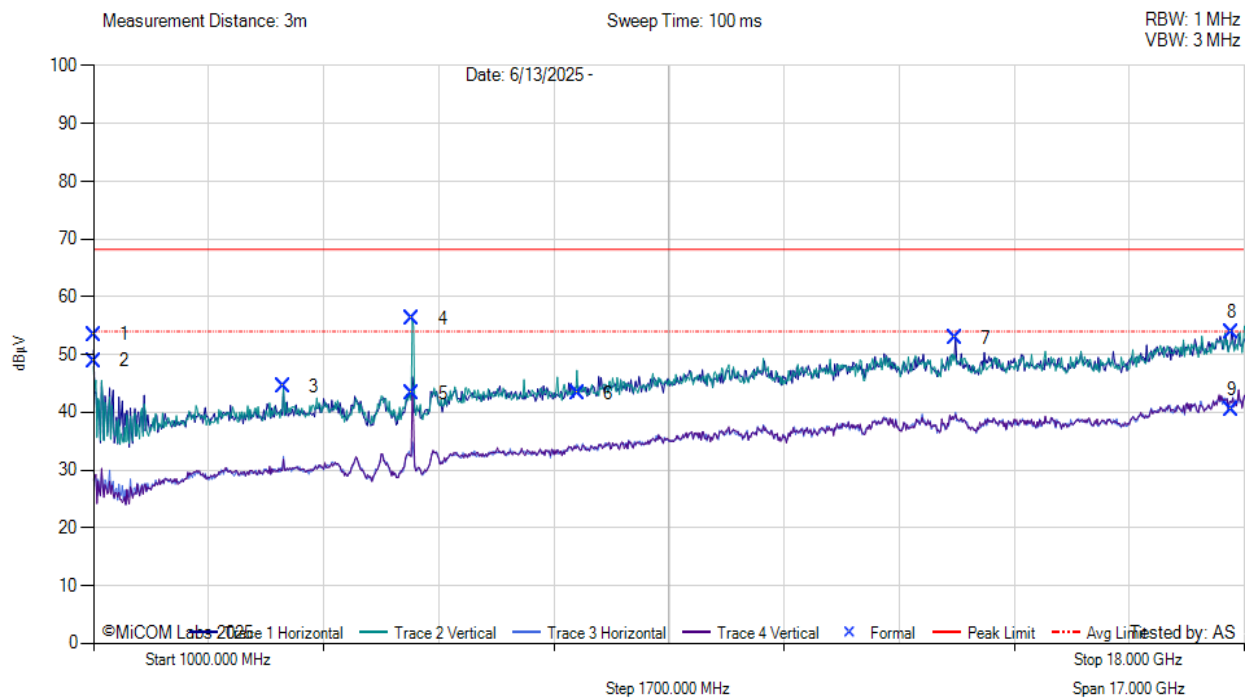
Equipment Configuration for FCC Spurious 1 GHz -18 GHz

Antenna:	H2B1WD1A3B0200	Variant:	802.11a
Antenna Gain (dBi):	4	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5720	Data Rate (Mb/s):	6
Power Setting:	Max Power	Tested By:	AS

Test Measurement Results



FCC Spurious 1 GHz -18 GHz



1000.00 - 18000.00 MHz

Num	Frequency MHz	Raw dBuV	Cable Loss dB	AF dB/m	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	1000.00	69.51	1.27	-17.35	53.43	MaxP	Horizontal	135	303	68.2	-14.8	Pass
2	1000.00	65.02	1.27	-17.35	48.94	AVG	Horizontal	135	303	54.0	-5.1	Pass
3	3805.00	53.79	2.53	33.46	44.48	MaxP	Vertical	149	120	68.2	-23.8	Pass
4	5709.00	63.40	3.18	34.67	56.16	Fundamental	--	--	--	--	--	Pass
5	5709.00	50.48	3.18	34.67	43.24	Fundamental	--	--	--	--	--	Pass
6	8157.00	47.55	3.86	35.79	43.30	MaxP	Vertical	149	179	68.2	-24.9	Pass
7	13733.00	53.77	5.58	39.09	52.86	MaxP	Horizontal	149	60	68.2	-15.4	Pass
8	17812.86	46.71	6.27	0.87	53.85	MaxP	Horizontal	144	54	68.2	-14.4	Pass
9	17812.86	33.27	6.27	0.87	40.41	AVG	Horizontal	144	54	54.0	-13.6	Pass

Test Notes: 802.11a 5720MHz H2B1WD1A3B0200 Ch 144

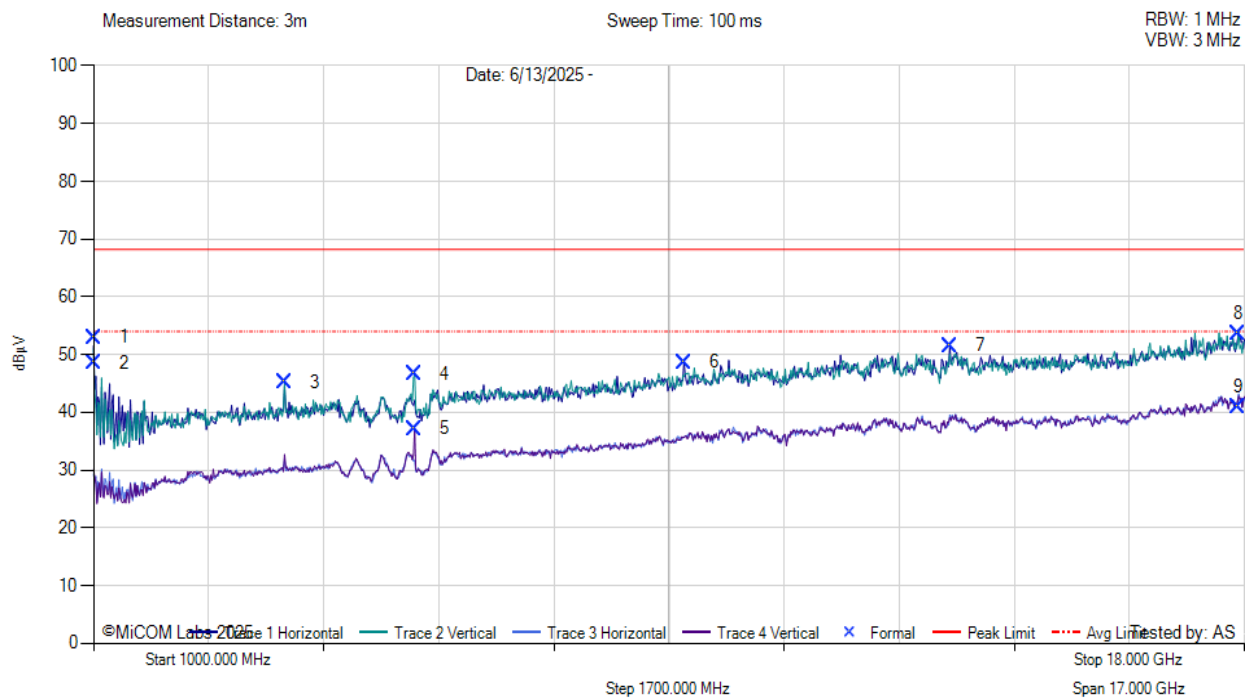
Equipment Configuration for FCC Spurious 1 GHz -18 GHz

Antenna:	H2B1WD1A3B0200	Variant:	802.11a
Antenna Gain (dBi):	4	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5745	Data Rate (Mb/s):	6
Power Setting:	Max Power	Tested By:	AS

Test Measurement Results



FCC Spurious 1 GHz -18 GHz



1000.00 - 18000.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	1000.00	69.03	1.27	27.88	52.95	MaxP	Horizontal	139	297	68.2	-15.3	Pass
2	1000.00	64.64	1.27	27.88	48.56	AVG	Horizontal	139	297	54.0	-5.4	Pass
3	3822.00	54.48	2.49	33.47	45.14	MaxP	Vertical	149	119	68.2	-23.1	Pass
4	5743.00	54.12	3.17	34.73	46.56	Fundamental	--	--	--	--	--	Pass
5	5743.00	44.75	3.17	34.73	37.19	Fundamental	--	--	--	--	--	Pass
6	9721.00	50.34	4.16	36.86	48.66	MaxP	Horizontal	100	180	68.2	-19.6	Pass
7	13648.00	53.21	5.17	39.09	51.52	MaxP	Horizontal	149	240	68.2	-16.7	Pass
8	17909.81	45.69	6.71	1.24	53.63	MaxP	Vertical	136	26	68.2	-14.6	Pass
9	17909.81	32.88	6.71	1.24	40.83	AVG	Vertical	136	26	54.0	-13.2	Pass

Test Notes: 802.11a 5745MHz H2B1WD1A3B0200 Ch 149

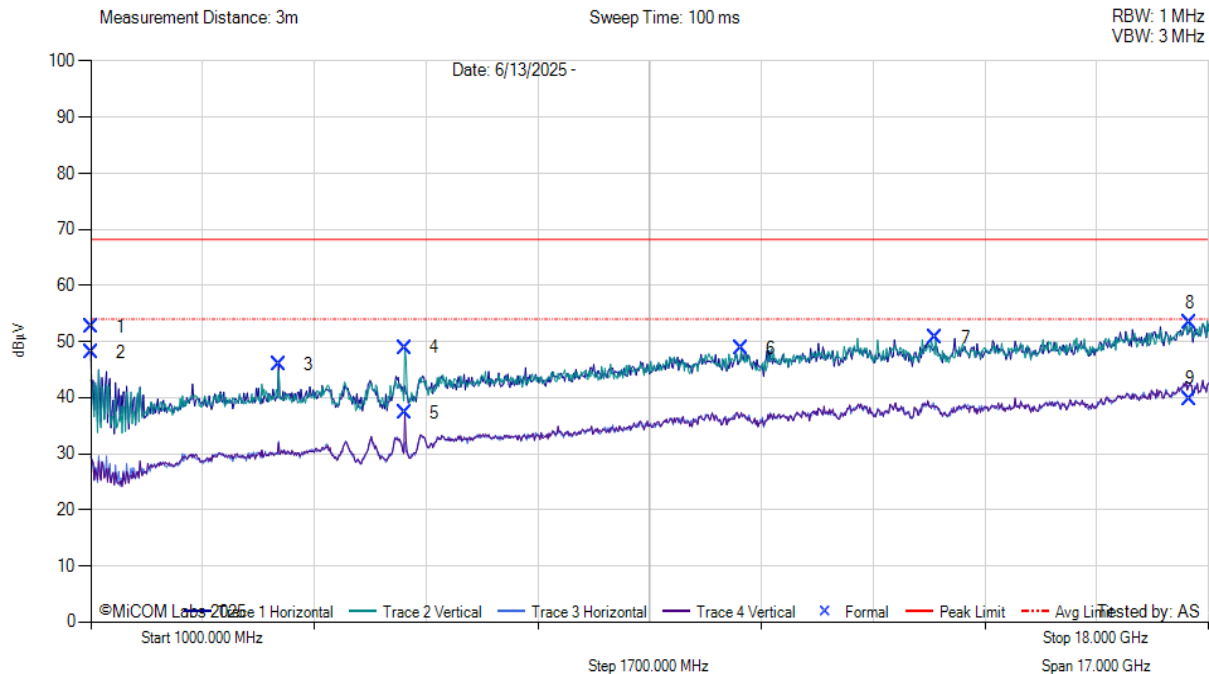
Equipment Configuration for FCC Spurious 1 GHz -18 GHz

Antenna:	H2B1WD1A3B0200	Variant:	802.11a
Antenna Gain (dBi):	4	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5785	Data Rate (Mb/s):	6
Power Setting:	Max Power	Tested By:	AS

Test Measurement Results



FCC Spurious 1 GHz -18 GHz



1000.00 - 18000.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	1000.03	68.72	1.27	-17.35	52.64	MaxP	Horizontal	128	118	68.2	-15.6	Pass
2	1000.03	64.09	1.27	-17.35	48.01	AVG	Horizontal	128	118	54.0	-6.0	Pass
3	3856.00	55.22	2.53	33.48	45.86	MaxP	Horizontal	149	240	68.2	-22.4	Pass
4	5777.00	56.49	3.19	34.80	48.89	Fundamental	--	--	--	--	--	Pass
5	5777.00	44.85	3.19	34.80	37.25	Fundamental	--	--	--	--	--	Pass
6	10894.00	48.68	4.87	37.77	48.77	MaxP	Vertical	149	119	68.2	-19.5	Pass
7	13852.00	52.56	5.29	39.11	50.72	MaxP	Vertical	101	0	68.2	-17.5	Pass
8	17713.98	46.84	6.18	0.28	53.30	MaxP	Vertical	115	24	68.2	-14.9	Pass
9	17713.98	33.36	6.18	0.28	39.83	AVG	Vertical	115	24	54.0	-14.2	Pass

Test Notes: 802.11a 5785MHz H2B1WD1A3B0200 Ch 157

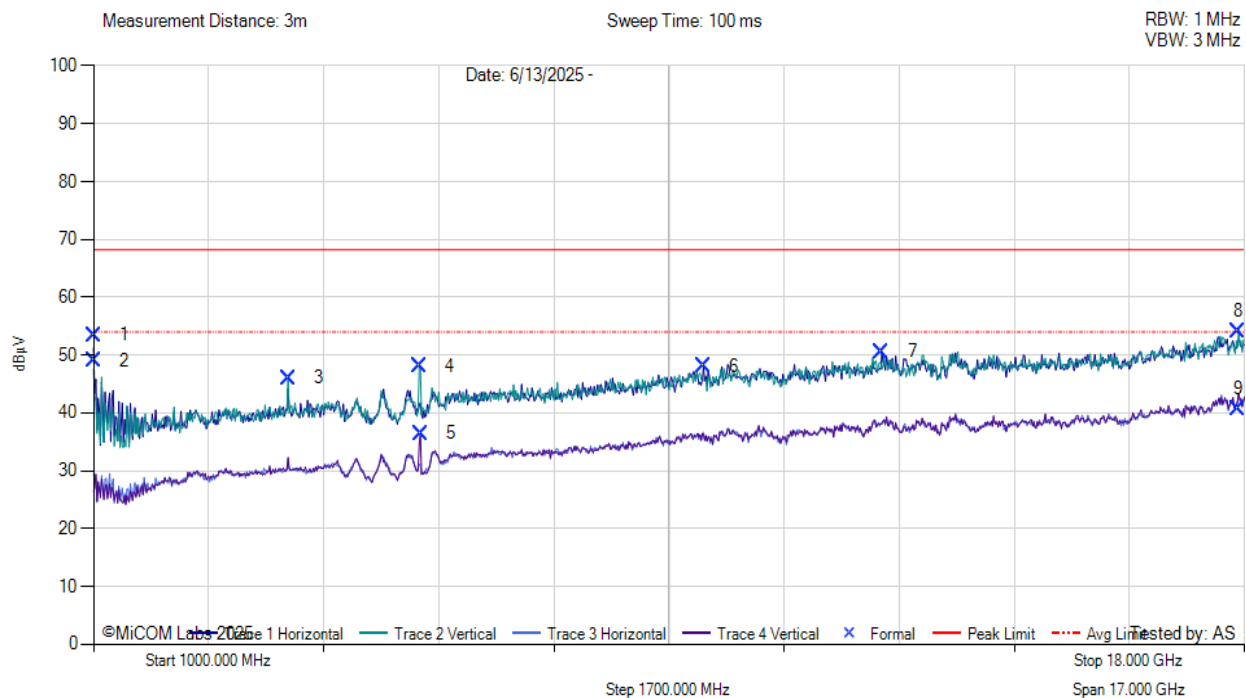
Equipment Configuration for FCC Spurious 1 GHz -18 GHz

Antenna:	H2B1WD1A3B0200	Variant:	802.11a
Antenna Gain (dBi):	4	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5825	Data Rate (Mb/s):	6
Power Setting:	Max Power	Tested By:	AS

Test Measurement Results



FCC Spurious 1 GHz -18 GHz



1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	1000.00	69.52	1.27	-17.35	53.44	MaxP	Horizontal	132	302	68.2	-14.8	Pass
2	1000.00	65.08	1.27	-17.35	49.00	AVG	Horizontal	132	302	54.0	-5.0	Pass
3	3873.00	55.40	2.52	33.47	45.99	MaxP	Vertical	149	119	68.2	-22.2	Pass
4	5811.00	54.88	3.20	34.87	47.99	Fundamental	--	--	--	--	--	Pass
5	5828.00	43.55	3.23	34.91	36.46	Fundamental	--	--	--	--	--	Pass
6	10010.00	48.79	4.52	37.37	48.02	MaxP	Horizontal	100	60	68.2	-20.2	Pass
7	12645.00	52.36	5.42	39.03	50.61	MaxP	Horizontal	100	300	68.2	-17.6	Pass
8	17912.50	46.03	6.75	1.26	54.04	MaxP	Vertical	121	3	68.2	-14.2	Pass
9	17912.50	32.68	6.75	1.26	40.68	AVG	Vertical	121	3	54.0	-13.3	Pass

Test Notes: 802.11a 5825MHz H2B1WD1A3B0200 Ch 165

GW.49.A153

**** No emissions were observed from 18GHz – 40 GHz**

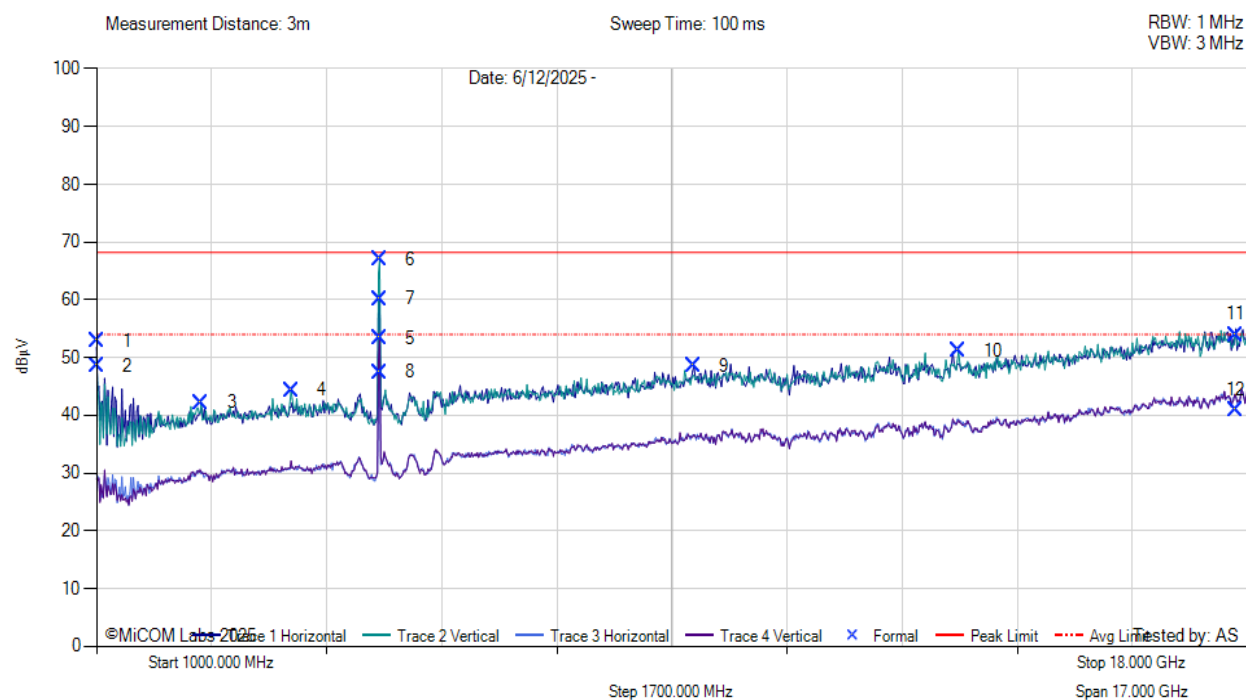
Equipment Configuration for FCC Spurious 1 GHz -18 GHz

Antenna:	GW.49.A153	Variant:	802.11a
Antenna Gain (dBi):	3.8	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5180	Data Rate (Mb/s):	6
Power Setting:	Max Power	Tested By:	AS

Test Measurement Results



FCC Spurious 1 GHz -18 GHz



1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	1000.03	68.89	1.27	-17.35	52.82	MaxP	Horizontal	137	305	68.2	-15.4	Pass
2	1000.03	64.63	1.27	-17.35	48.55	AVG	Horizontal	137	305	54.0	-5.4	Pass
3	2547.00	51.85	2.03	32.51	42.18	MaxP	Vertical	100	0	68.2	-26.0	Pass
4	3873.00	53.73	2.52	33.47	44.32	MaxP	Vertical	149	239	68.2	-23.9	Pass
5	5182.00	62.27	2.97	34.19	53.36	Fundamental	--	--	--	--	--	Pass
6	5182.00	75.91	2.97	34.19	67.00	Fundamental	--	--	--	--	--	Pass
7	5182.00	69.04	2.97	34.19	60.13	Fundamental	--	--	--	--	--	Pass
8	5182.00	56.40	2.97	34.19	47.49	Fundamental	--	--	--	--	--	Pass
9	9823.00	49.68	4.36	37.06	48.56	MaxP	Horizontal	100	300	68.2	-19.7	Pass
10	13733.00	52.06	5.58	39.09	51.15	MaxP	Vertical	100	119	68.2	-17.1	Pass
11	17827.07	46.66	6.28	0.97	53.91	MaxP	Horizontal	104	170	68.2	-14.3	Pass
12	17827.07	33.67	6.28	0.97	40.92	AVG	Horizontal	104	170	54.0	-13.1	Pass
Test Notes: 802.11a 5180MHz GW.49.A153												

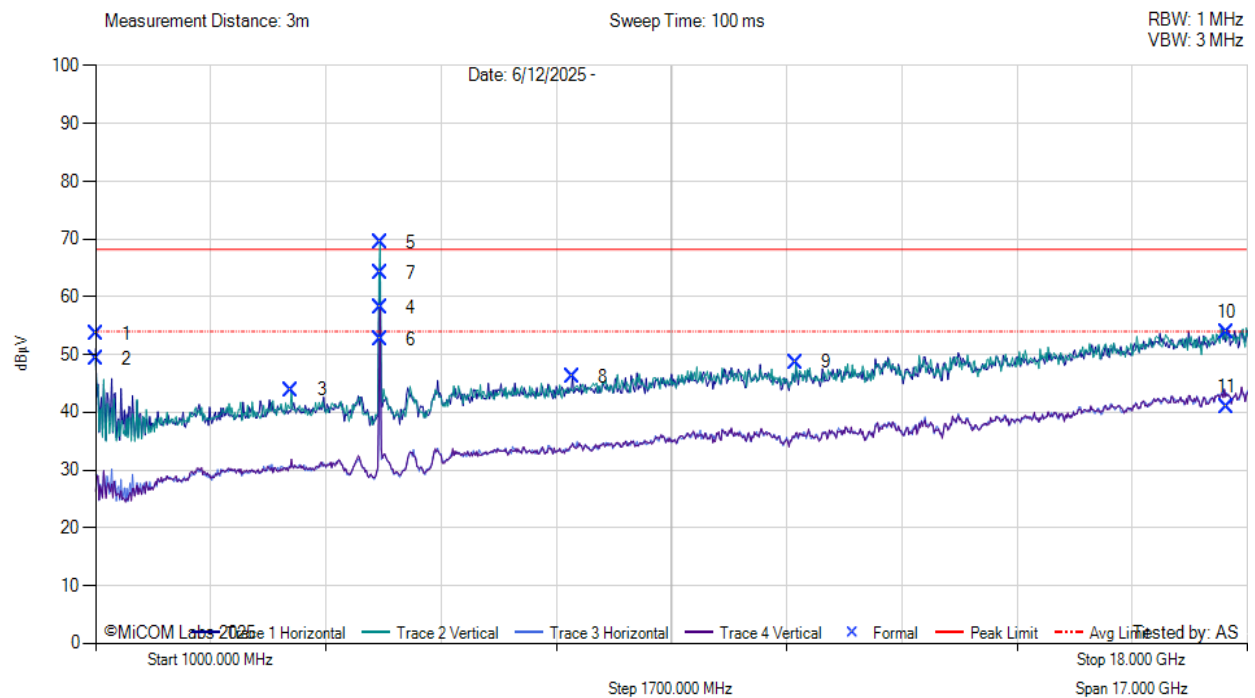
Equipment Configuration for FCC Spurious 1 GHz -18 GHz

Antenna:	GW.49.A153	Variant:	802.11a
Antenna Gain (dBi):	3.8	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5200	Data Rate (Mb/s):	6
Power Setting:	Max Power	Tested By:	AS

Test Measurement Results



FCC Spurious 1 GHz -18 GHz



1000.00 - 18000.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	1000.00	69.61	1.27	27.88	53.54	MaxP	Horizontal	136	302	68.2	-14.7	Pass
2	1000.00	65.40	1.27	27.88	49.32	AVG	Horizontal	136	302	54.0	-4.7	Pass
3	3890.00	53.34	2.53	33.46	43.88	MaxP	Vertical	149	0	68.2	-24.4	Pass
4	5199.00	67.39	2.98	34.22	58.19	Fundamental	--	--	--	--	--	Pass
5	5199.00	78.52	2.98	34.22	69.32	Fundamental	--	--	--	--	--	Pass
6	5199.00	61.76	2.98	34.22	52.56	Fundamental	--	--	--	--	--	Pass
7	5199.00	73.27	2.98	34.22	64.07	Fundamental	--	--	--	--	--	Pass
8	8038.00	50.27	3.84	35.84	46.19	MaxP	Horizontal	99	300	68.2	-22.0	Pass
9	11336.00	49.67	4.89	38.05	48.66	MaxP	Vertical	99	179	68.2	-19.6	Pass
10	17695.15	47.93	6.39	-0.42	53.90	MaxP	Horizontal	107	274	68.2	-14.3	Pass
11	17695.15	34.95	6.39	-0.42	40.91	AVG	Horizontal	107	274	54.0	-13.1	Pass

Test Notes: 802.11a 5200MHz GW.49.A153

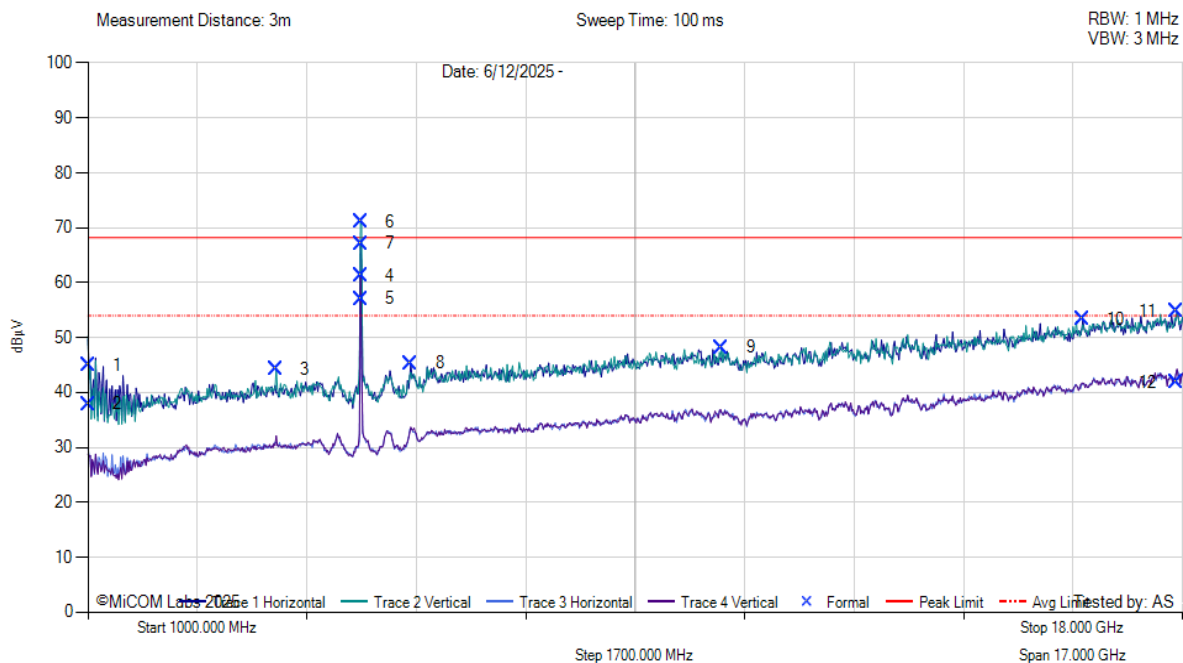
Equipment Configuration for FCC Spurious 1 GHz -18 GHz

Antenna:	GW.49.A153	Variant:	802.11a
Antenna Gain (dBi):	3.8	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5240	Data Rate (Mb/s):	6
Power Setting:	Max Power	Tested By:	AS

Test Measurement Results



FCC Spurious 1 GHz -18 GHz



1000.00 - 18000.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	1000.15	61.03	1.27	-17.35	44.95	MaxP	Vertical	100	290	68.2	-23.3	Pass
2	1000.15	53.97	1.27	-17.35	37.89	AVG	Vertical	100	290	54.0	-16.1	Pass
3	3924.00	53.73	2.52	33.45	44.25	MaxP	Vertical	100	239	68.2	-24.0	Pass
4	5233.00	69.99	3.05	34.26	61.23	Fundamental	--	--	--	--	--	Pass
5	5233.00	65.85	3.05	34.26	57.08	Fundamental	--	--	--	--	--	Pass
6	5233.00	79.82	3.05	34.26	71.05	Fundamental	--	--	--	--	--	Pass
7	5233.00	75.91	3.05	34.26	67.14	Fundamental	--	--	--	--	--	Pass
8	6015.00	51.93	3.26	35.27	45.33	MaxP	Horizontal	149	0	68.2	-22.9	Pass
9	10843.00	48.45	4.52	37.76	48.16	MaxP	Vertical	149	300	68.2	-20.1	Pass
10	16453.00	47.73	6.22	40.98	53.26	MaxP	Horizontal	100	300	68.2	-15.0	Pass
11	17909.72	46.80	6.71	1.24	54.74	MaxP	Horizontal	140	264	68.2	-13.5	Pass
12	17909.72	33.84	6.71	1.24	41.79	AVG	Horizontal	140	264	54.0	-12.2	Pass

Test Notes: 802.11a 5240MHz GW.49.A153

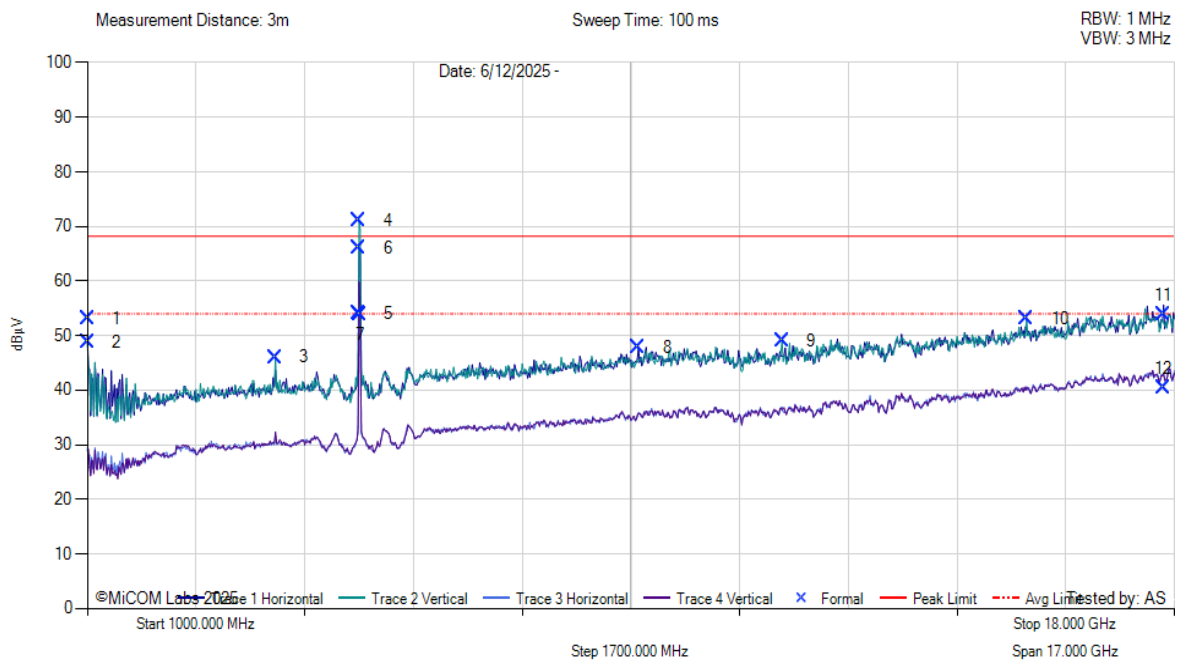
Equipment Configuration for FCC Spurious 1 GHz -18 GHz

Antenna:	GW.49.A153	Variant:	802.11a
Antenna Gain (dBi):	3.8	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5260	Data Rate (Mb/s):	6
Power Setting:	Max Power	Tested By:	AS

Test Measurement Results



FCC Spurious 1 GHz -18 GHz



1000.00 - 18000.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	1000.00	69.20	1.27	27.88	53.12	MaxP	Horizontal	131	308	68.2	-15.1	Pass
2	1000.00	64.83	1.27	27.88	48.75	AVG	Horizontal	131	308	54.0	-5.3	Pass
3	3941.00	55.46	2.60	33.44	46.05	MaxP	Vertical	101	239	68.2	-22.2	Pass
4	5250.00	79.49	3.04	34.28	71.05	Fundamental	--	--	--	--	--	Pass
5	5250.00	62.51	3.04	34.28	54.08	Fundamental	--	--	--	--	--	Pass
6	5250.00	74.43	3.04	34.28	66.00	Fundamental	--	--	--	--	--	Pass
7	5267.00	62.30	3.04	34.31	53.82	Fundamental	--	--	--	--	--	Pass
8	9619.00	49.67	4.59	36.69	47.80	MaxP	Horizontal	101	240	68.2	-20.4	Pass
9	11863.00	50.66	4.76	38.75	49.01	MaxP	Vertical	149	59	68.2	-19.2	Pass
10	15688.00	49.26	5.75	40.41	53.14	MaxP	Vertical	101	0	68.2	-16.6	Pass
11	17831.75	46.57	6.29	0.92	53.78	MaxP	Horizontal	100	186	68.2	-14.5	Pass
12	17831.75	33.26	6.29	0.92	40.47	AVG	Horizontal	100	186	54.0	-13.5	Pass

Test Notes: 802.11a 5260MHz GW.49.A153

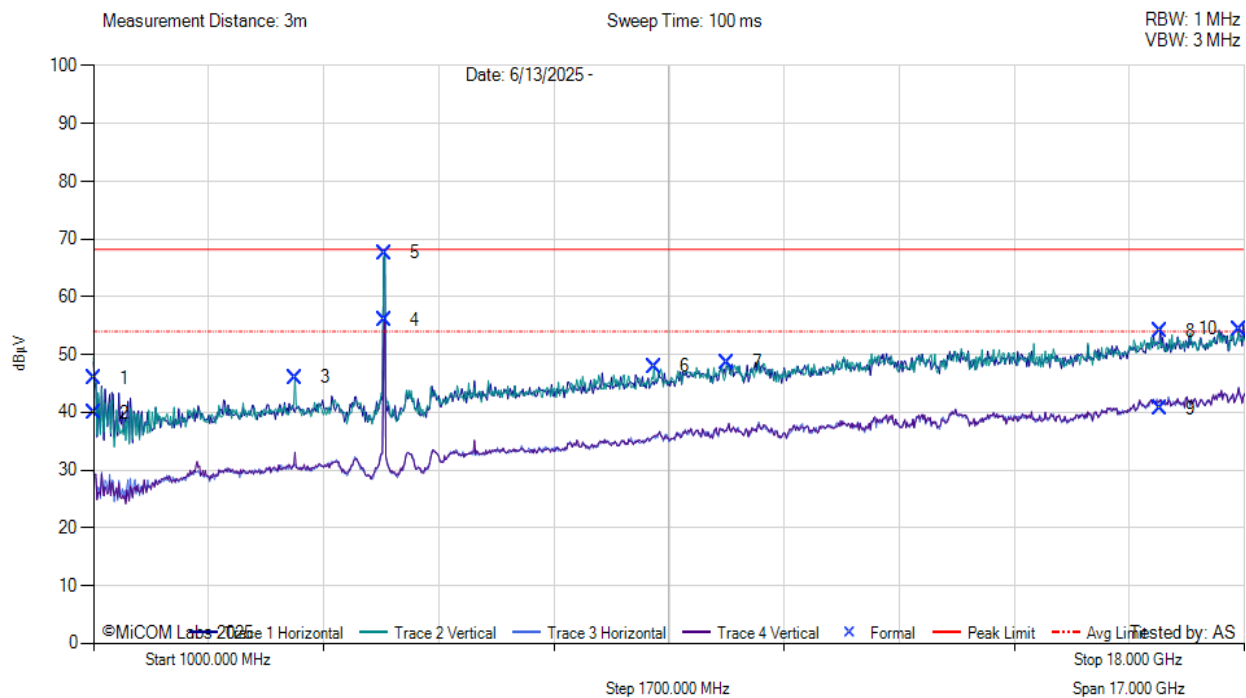
Equipment Configuration for FCC Spurious 1 GHz -18 GHz

Antenna:	GW.49.A153	Variant:	802.11a
Antenna Gain (dBi):	3.8	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5300	Data Rate (Mb/s):	6
Power Setting:	Max Power	Tested By:	AS

Test Measurement Results



FCC Spurious 1 GHz -18 GHz



1000.00 - 18000.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	1000.12	61.99	1.27	-17.35	45.91	MaxP	Vertical	148	303	68.2	-22.3	Pass
2	1000.12	56.02	1.27	-17.35	39.94	AVG	Vertical	148	303	54.0	-14.1	Pass
3	3975.00	55.64	2.52	33.43	46.05	MaxP	Vertical	149	239	68.2	-22.2	Pass
4	5301.00	64.99	3.26	34.38	56.04	Fundamental	--	--	--	--	--	Pass
5	5301.00	76.54	3.26	34.38	67.59	Fundamental	--	--	--	--	--	Pass
6	9279.00	50.63	4.21	36.34	47.92	MaxP	Vertical	101	0	68.2	-20.3	Pass
7	10350.00	48.97	4.32	37.51	48.62	MaxP	Vertical	149	179	68.2	-19.6	Pass
8	16755.60	48.05	6.68	-0.64	54.09	MaxP	Horizontal	133	42	68.2	-14.1	Pass
9	16755.60	34.63	6.68	-0.64	40.68	AVG	Horizontal	133	42	54.0	-13.3	Pass
10	17915.00	46.46	6.67	41.55	54.41	MaxP	Vertical	100	179	68.2	-13.8	Pass

Test Notes: 802.11a 5300MHz GW.49.A153 Ch 60

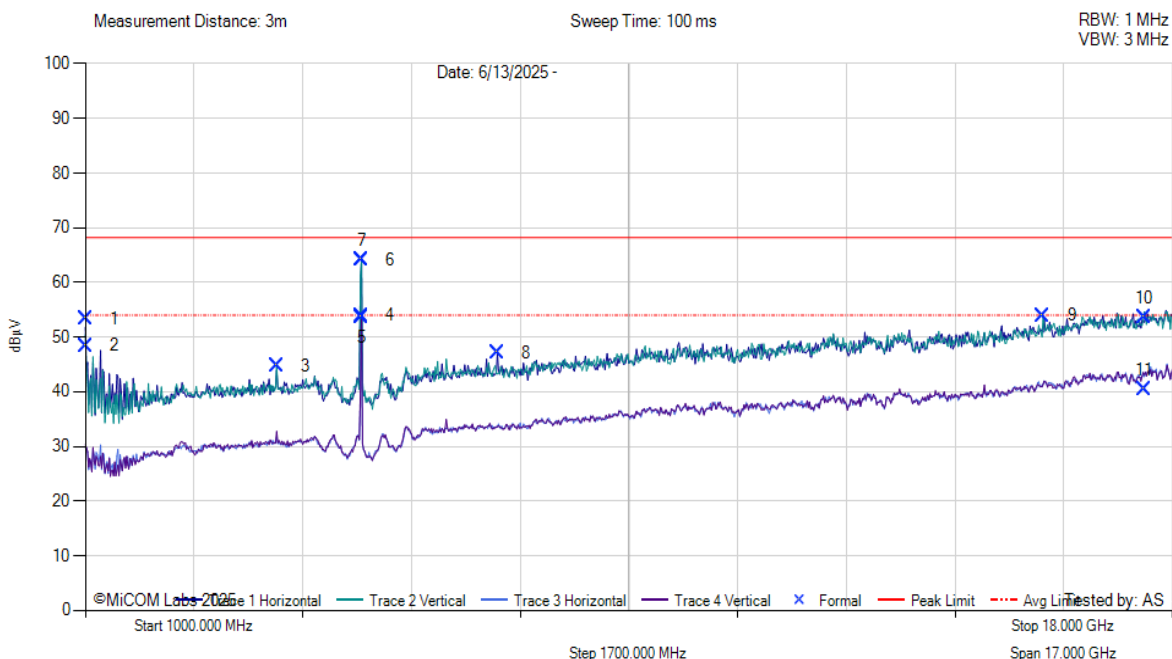
Equipment Configuration for FCC Spurious 1 GHz -18 GHz

Antenna:	GW.49.A153	Variant:	802.11a
Antenna Gain (dBi):	3.8	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5320	Data Rate (Mb/s):	6
Power Setting:	Max Power	Tested By:	AS

Test Measurement Results



FCC Spurious 1 GHz -18 GHz



1000.00 - 18000.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	1000.01	69.35	1.27	-17.35	53.27	MaxP	Horizontal	147	307	68.2	-15.0	Pass
2	1000.01	64.46	1.27	-17.35	48.38	AVG	Horizontal	147	307	54.0	-5.6	Pass
3	3992.00	54.29	2.52	33.42	44.71	MaxP	Vertical	149	239	68.2	-23.5	Pass
4	5318.00	62.87	3.04	34.40	53.98	Fundamental	--	--	--	--	--	Pass
5	5318.00	62.50	3.04	34.40	53.61	Fundamental	--	--	--	--	--	Pass
6	5318.00	73.06	3.04	34.40	64.17	Fundamental	--	--	--	--	--	Pass
7	5318.00	73.03	3.04	34.40	64.14	Fundamental	--	--	--	--	--	Pass
8	7443.00	51.30	3.84	35.86	47.07	MaxP	Horizontal	149	240	68.2	-21.2	Pass
9	15977.00	49.49	6.02	40.70	53.91	MaxP	Vertical	101	239	68.2	-14.3	Pass
10	17558.98	47.92	6.26	-0.57	53.61	MaxP	Vertical	102	87	68.2	-14.6	Pass
11	17558.98	34.70	6.26	-0.57	40.39	AVG	Vertical	102	87	54.0	-13.6	Pass

Test Notes: 802.11a 5320MHz GW.49.A153

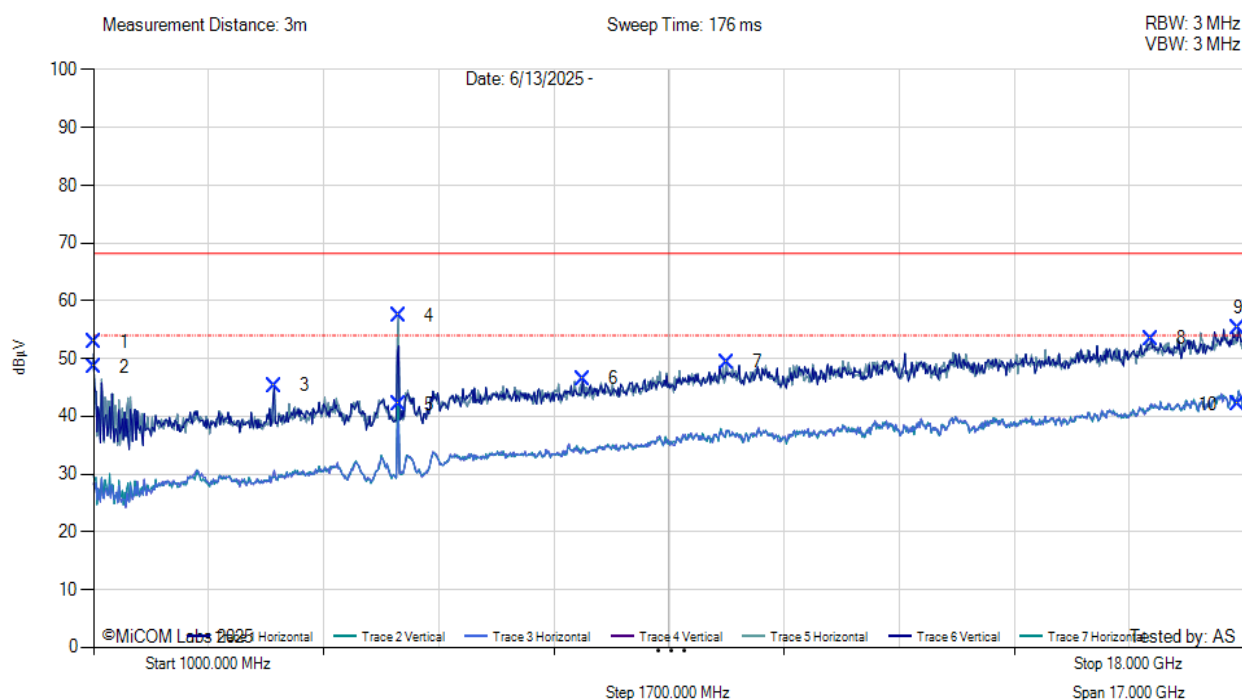
Equipment Configuration for FCC Spurious 1 GHz -18 GHz

Antenna:	GW.49.A153	Variant:	802.11a
Antenna Gain (dBi):	3.8	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5500	Data Rate (Mb/s):	6
Power Setting:	Max Power	Tested By:	AS

Test Measurement Results



FCC Spurious 1 GHz -18 GHz



1000.00 - 18000.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	1000.02	68.99	1.27	-17.35	52.91	MaxP	Horizontal	141	292	68.2	-15.3	Pass
2	1000.02	64.61	1.27	-17.35	48.53	AVG	Horizontal	141	292	54.0	-5.5	Pass
3	3669.00	54.56	2.42	33.27	45.30	MaxP	Vertical	149	239	68.2	-22.9	Pass
4	5505.00	65.80	3.11	34.53	57.34	Fundamental	--	--	--	--	--	Pass
5	5505.00	50.52	3.11	34.53	42.05	Fundamental	--	--	--	--	--	Pass
6	8225.00	50.65	3.91	35.77	46.50	MaxP	Vertical	149	0	68.2	-21.7	Pass
7	10350.00	49.71	4.32	37.51	49.36	MaxP	Horizontal	100	240	68.2	-18.9	Pass
8	16623.00	47.67	6.48	41.45	53.47	MaxP	Vertical	100	179	68.2	-14.8	Pass
9	17912.11	47.21	6.76	1.26	55.22	MaxP	Vertical	100	315	68.2	-13.0	Pass
10	17912.11	34.12	6.76	1.26	42.13	AVG	Vertical	100	315	54.0	-11.9	Pass

Test Notes: 802.11a 5500MHz GW.49.A153

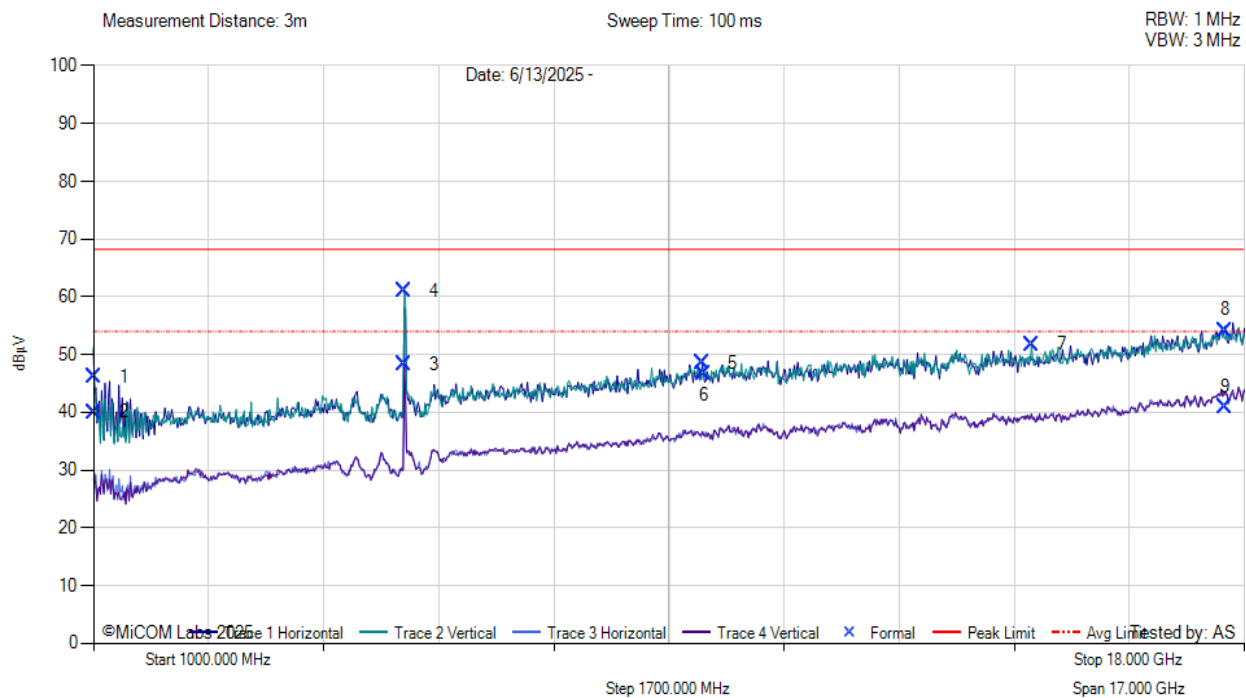
Equipment Configuration for FCC Spurious 1 GHz -18 GHz

Antenna:	GW.49.A153	Variant:	802.11a
Antenna Gain (dBi):	3.8	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5580	Data Rate (Mb/s):	6
Power Setting:	Max Power	Tested By:	AS

Test Measurement Results



FCC Spurious 1 GHz -18 GHz



1000.00 - 18000.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	1000.00	62.30	1.27	-17.35	46.22	MaxP	Vertical	149	294	68.2	-22.0	Pass
2	1000.00	56.14	1.27	-17.35	40.06	AVG	Vertical	149	294	54.0	-13.9	Pass
3	5590.00	56.48	3.15	34.55	48.27	Fundamental	--	--	--	--	--	Pass
4	5590.00	69.17	3.15	34.55	60.97	Fundamental	--	--	--	--	--	Pass
5	9993.00	49.19	4.66	37.35	48.53	MaxP	Horizontal	149	60	68.2	-19.7	Pass
6	10010.00	47.32	4.52	37.37	46.56	MaxP	Horizontal	149	60	68.2	-21.7	Pass
7	14855.00	51.11	5.81	39.68	51.82	MaxP	Vertical	100	59	68.2	-16.4	Pass
8	17710.61	47.78	6.18	0.19	54.15	MaxP	Horizontal	99	189	68.2	-14.1	Pass
9	17710.61	34.56	6.18	0.19	40.93	AVG	Horizontal	99	189	54.0	-13.1	Pass

Test Notes: 802.11a 5580MHz GW.49.A153

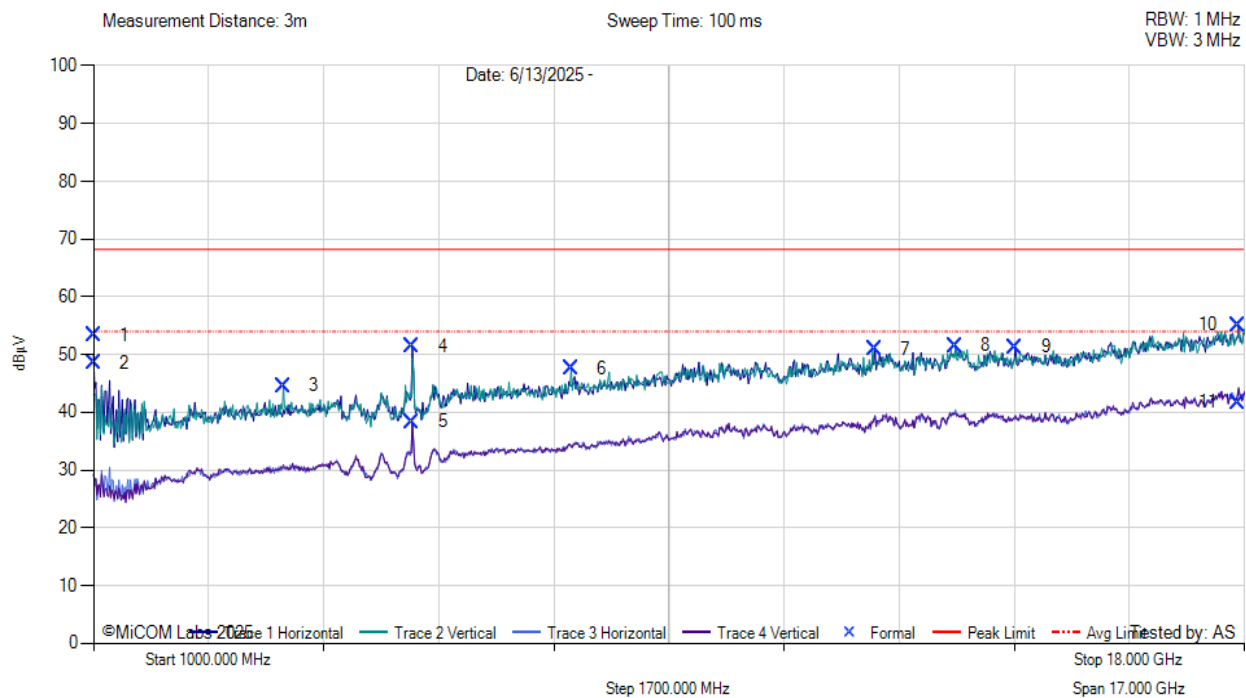
Equipment Configuration for FCC Spurious 1 GHz -18 GHz

Antenna:	GW.49.A153	Variant:	802.11a
Antenna Gain (dBi):	3.8	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5720	Data Rate (Mb/s):	6
Power Setting:	Max Power	Tested By:	AS

Test Measurement Results



FCC Spurious 1 GHz -18 GHz



1000.00 - 18000.00 MHz

Num	Frequency MHz	Raw dBuV	Cable Loss dB	AF dB/m	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	1000.05	69.41	1.27	-17.35	53.33	MaxP	Horizontal	132	139	68.2	-14.9	Pass
2	1000.05	64.65	1.27	-17.35	48.57	AVG	Horizontal	132	139	54.0	-5.4	Pass
3	3805.00	53.96	2.53	33.46	44.64	MaxP	Vertical	99	119	68.2	-23.6	Pass
4	5709.00	58.63	3.18	34.67	51.39	Fundamental	--	--	--	--	--	Pass
5	5709.00	45.57	3.18	34.67	38.32	Fundamental	--	--	--	--	--	Pass
6	8055.00	51.76	3.77	35.83	47.59	MaxP	Vertical	100	0	68.2	-20.6	Pass
7	12543.00	52.27	5.07	38.94	50.93	MaxP	Horizontal	149	60	68.2	-17.3	Pass
8	13733.00	52.41	5.58	39.09	51.50	MaxP	Vertical	99	119	68.2	-16.7	Pass
9	14617.00	51.83	5.39	39.61	51.27	MaxP	Horizontal	149	0	68.2	-17.0	Pass
10	17910.80	47.16	6.75	1.25	55.16	MaxP	Horizontal	147	48	68.2	-13.1	Pass
11	17910.80	33.73	6.75	1.25	41.73	AVG	Horizontal	147	48	54.0	-12.3	Pass

Test Notes: 802.11a 5720MHz GW.49.A153 Ch 144

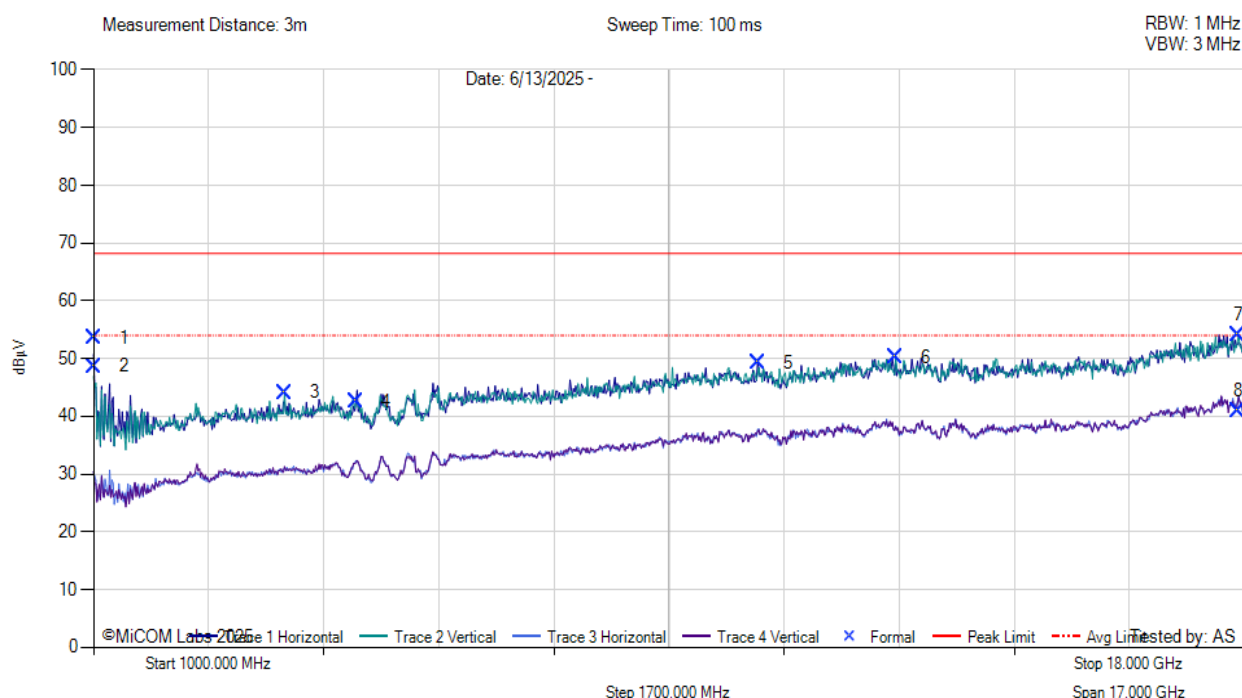
Equipment Configuration for FCC Spurious 1 GHz -18 GHz

Antenna:	GW.49.A153	Variant:	802.11a
Antenna Gain (dBi):	3.8	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5745	Data Rate (Mb/s):	6
Power Setting:	Max Power	Tested By:	AS

Test Measurement Results



FCC Spurious 1 GHz -18 GHz



1000.00 - 18000.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	1000.00	69.60	1.27	27.88	53.52	MaxP	Horizontal	131	122	68.2	-14.7	Pass
2	1000.00	64.76	1.27	27.88	48.68	AVG	Horizontal	131	122	54.0	-5.3	Pass
3	3822.00	53.42	2.49	33.47	44.08	MaxP	Vertical	100	239	68.2	-24.1	Pass
4	4876.00	52.02	2.84	34.00	42.59	MaxP	Horizontal	100	240	68.2	-25.6	Pass
5	10809.00	49.21	4.70	37.76	49.25	MaxP	Horizontal	100	120	68.2	-19.0	Pass
6	12849.00	53.00	5.61	39.17	50.27	MaxP	Vertical	150	179	68.2	-18.0	Pass
7	17912.00	46.07	6.76	41.55	54.09	MaxP	Vertical	99	220	68.2	-14.1	Pass
8	17912.00	32.84	6.76	41.55	40.86	AVG	Vertical	99	220	54.0	-13.1	Pass

Test Notes: 802.11a 5745 GW.49.A153 Ch 149

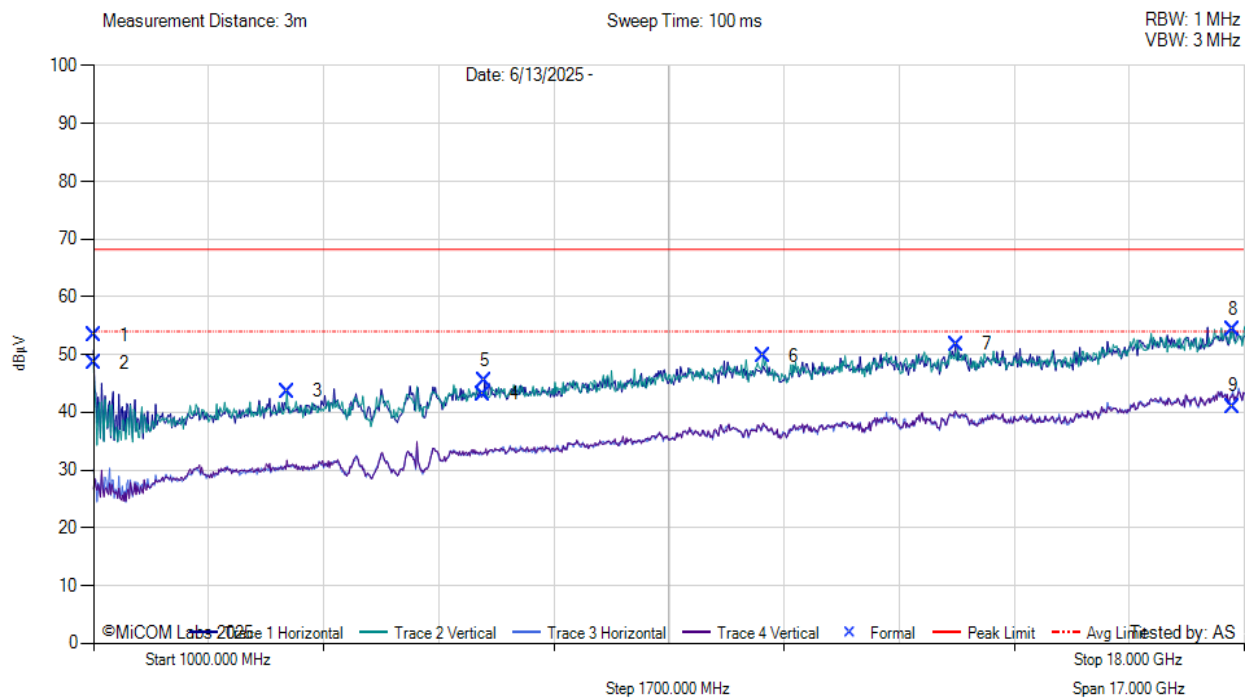
Equipment Configuration for FCC Spurious 1 GHz -18 GHz

Antenna:	GW.49.A153	Variant:	802.11a
Antenna Gain (dBi):	3.8	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5785	Data Rate (Mb/s):	6
Power Setting:	Max Power	Tested By:	AS

Test Measurement Results



FCC Spurious 1 GHz -18 GHz



1000.00 - 18000.00 MHz

Num	Frequency MHz	Raw dBuV	Cable Loss dB	AF dB/m	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	1000.00	69.38	1.27	-17.35	53.30	MaxP	Horizontal	120	128	68.2	-14.9	Pass
2	1000.00	64.55	1.27	-17.35	48.47	AVG	Horizontal	120	128	54.0	-5.5	Pass
3	3856.00	53.04	2.53	33.48	43.68	MaxP	Vertical	149	179	68.2	-24.6	Pass
4	6763.00	47.98	3.45	35.78	43.14	MaxP	Horizontal	149	120	68.2	-25.1	Pass
5	6780.00	50.25	3.51	35.80	45.48	MaxP	Horizontal	149	240	68.2	-22.7	Pass
6	10894.00	49.68	4.87	37.77	49.77	MaxP	Vertical	149	239	68.2	-18.5	Pass
7	13750.00	53.18	5.14	39.10	51.79	MaxP	Horizontal	149	120	68.2	-16.4	Pass
8	17829.16	47.03	6.28	0.95	54.26	MaxP	Horizontal	135	159	68.2	-14.0	Pass
9	17829.16	33.74	6.28	0.95	40.97	AVG	Horizontal	135	159	54.0	-13.0	Pass

Test Notes: 802.11a 5785MHz GW.49.A153 Ch 157

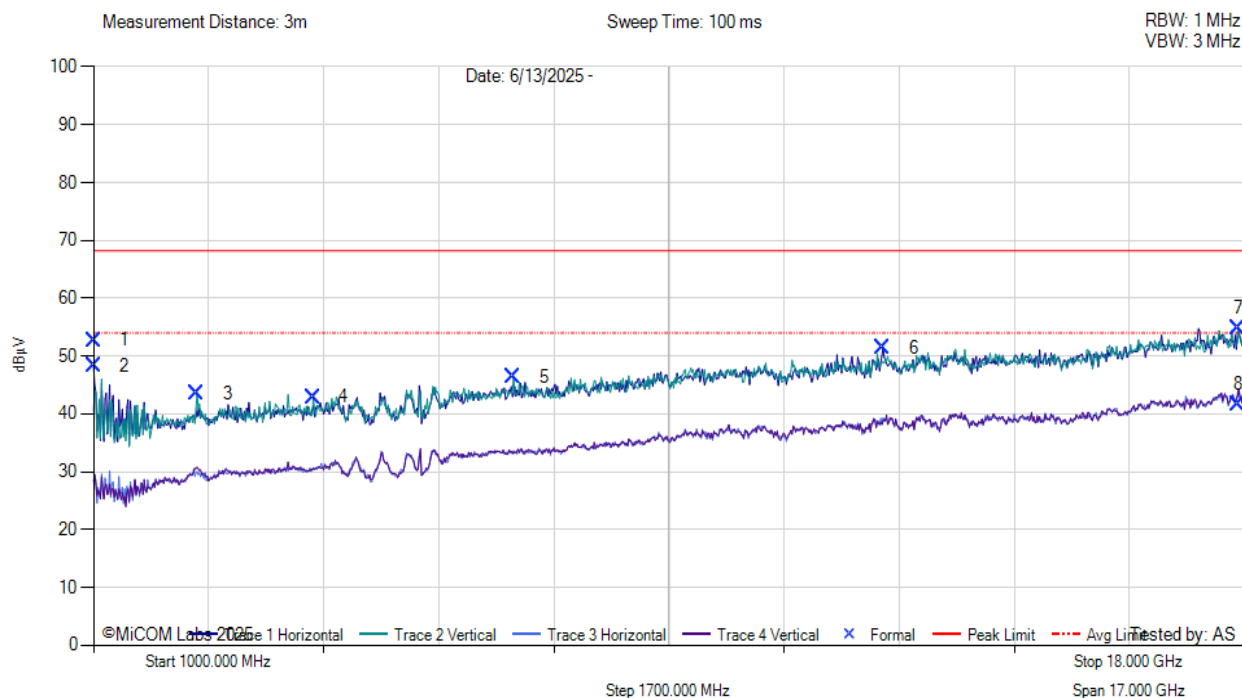
Equipment Configuration for FCC Spurious 1 GHz -18 GHz

Antenna:	GW.49.A153	Variant:	802.11a
Antenna Gain (dBi):	3.8	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5825	Data Rate (Mb/s):	6
Power Setting:	Max Power	Tested By:	AS

Test Measurement Results



FCC Spurious 1 GHz -18 GHz



1000.00 - 18000.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	1000.08	68.79	1.27	-17.35	52.71	MaxP	Horizontal	139	300	68.2	-15.5	Pass
2	1000.08	64.39	1.27	-17.35	48.31	AVG	Horizontal	139	300	54.0	-5.7	Pass
3	2530.00	53.23	2.04	32.49	43.51	MaxP	Vertical	149	119	68.2	-24.7	Pass
4	4247.00	52.62	2.66	33.49	42.92	MaxP	Vertical	149	0	68.2	-25.3	Pass
5	7205.00	50.58	3.78	35.92	46.35	MaxP	Vertical	149	300	68.2	-21.9	Pass
6	12662.00	53.11	5.44	39.05	51.42	MaxP	Horizontal	100	180	68.2	-16.8	Pass
7	17913.61	46.75	6.71	1.27	54.73	MaxP	Vertical	128	7	68.2	-13.5	Pass
8	17913.61	33.62	6.71	1.27	41.60	AVG	Vertical	128	7	54.0	-12.4	Pass

Test Notes: 802.11a 5825MHz GW.49.A153 Ch 165

9.1.2. Restricted Edge & Band-Edge Emissions

9.1.2.1. H2B1WD1A3B0200 PCB

5GHz Wi-Fi

5150 - 5250 MHz

CCMP25		Band-Edge Freq	Limit 68.2dBμV/m	Limit 54.0dBμV/m	Power Setting
Operational Mode	Operating Frequency (MHz)	MHz	dBμV/m	dBμV/m	
802.11a	5180.00	5150.00	66.09	53.08	15
802.11n HT-20	5180.00	5150.00	66.10	53.02	15
802.11ax HE-20	5180.00	5150.00	66.09	53.08	15

5250 - 5350 MHz

CCMP25		Band-Edge Freq	Limit 74dBμV/m	Limit 54.0dBμV/m	Power Setting
Operational Mode	Operating Frequency (MHz)	MHz	dBμV/m	dBμV/m	
802.11a	5320.00	5350.00	62.49	53.67	18
802.11n HT-20	5320.00	5350.00	66.89	53.02	17.5
802.11ax HE-20	5320.00	5350.00	64.29	51.99	16.5

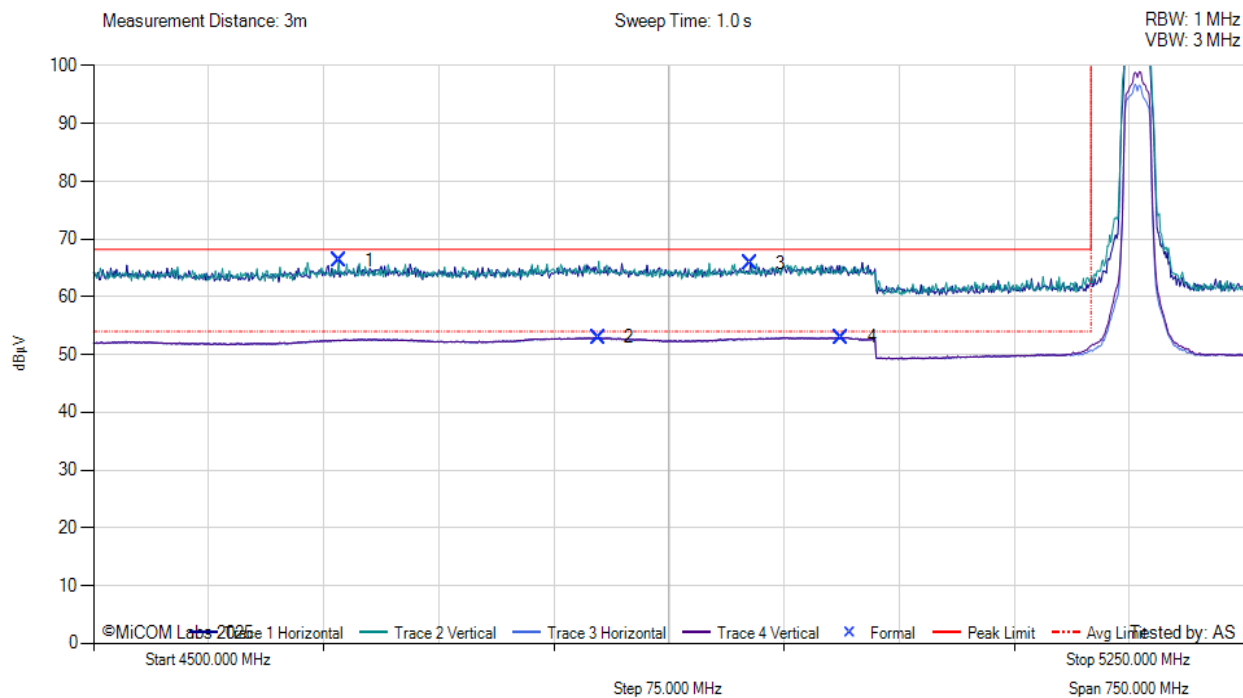
Equipment Configuration for BE 5150 MHZ

Antenna:	H2B1WD1A3B0200	Variant:	802.11a
Antenna Gain (dBi):	4	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5180.0	Data Rate (Mb/s):	6
Power Setting:	15	Tested By:	AS

Test Measurement Results



BE 5150 MHz



4500.00 - 5250.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	4659.75	29.38	2.87	34.01	66.26	MaxP	Vertical	199	0	68.2	-1.9	Pass
2	4829.25	16.07	2.92	34.00	52.99	AVG	Horizontal	148	210	54.0	-1.0	Pass
3	4928.25	28.91	2.92	34.01	65.84	MaxP	Horizontal	199	180	68.2	-2.4	Pass
4	4987.50	15.92	3.08	34.02	53.02	AVG	Vertical	148	149	54.0	-1.0	Pass

Test Notes: 802.11a 5180MHz H2B1WD1A3B0200 PS=15 Ch 36

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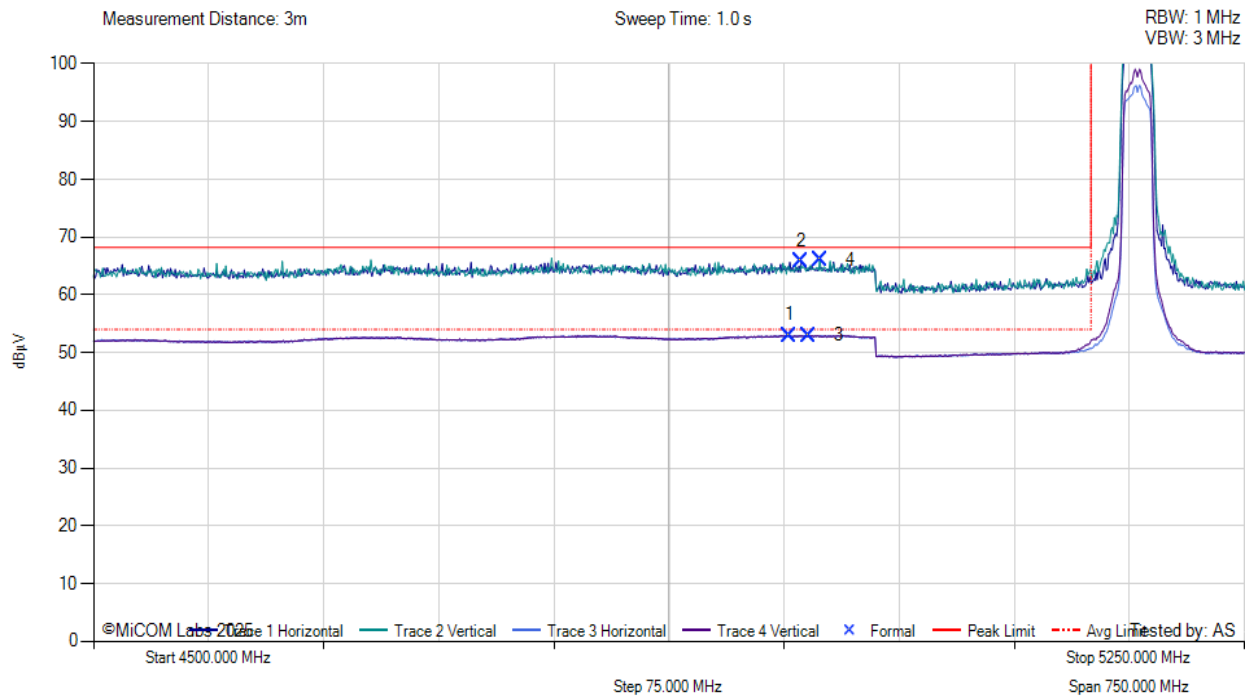
Equipment Configuration for BE 5150 MHZ

Antenna:	H2B1WD1A3B0200	Variant:	802.11n HT-20
Antenna Gain (dBi):	4	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5180.0	Data Rate:	MCS0
Power Setting:	15	Tested By:	AS

Test Measurement Results



BE 5150 MHz



4500.00 - 5250.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	4953.75	16.12	2.89	34.01	53.02	AVG	Vertical	150	60	54.0	-1.0	Pass
2	4961.25	28.81	2.90	34.01	65.72	MaxP	Horizontal	199	270	68.2	-2.5	Pass
3	4965.75	16.03	2.93	34.01	52.97	AVG	Horizontal	150	150	54.0	-1.0	Pass
4	4973.25	29.14	2.94	34.01	66.10	MaxP	Vertical	150	29	68.2	-2.1	Pass

Test Notes: 802.11n HT-20 5180MHz H2B1WD1A3B0200 PS=15 Ch 36

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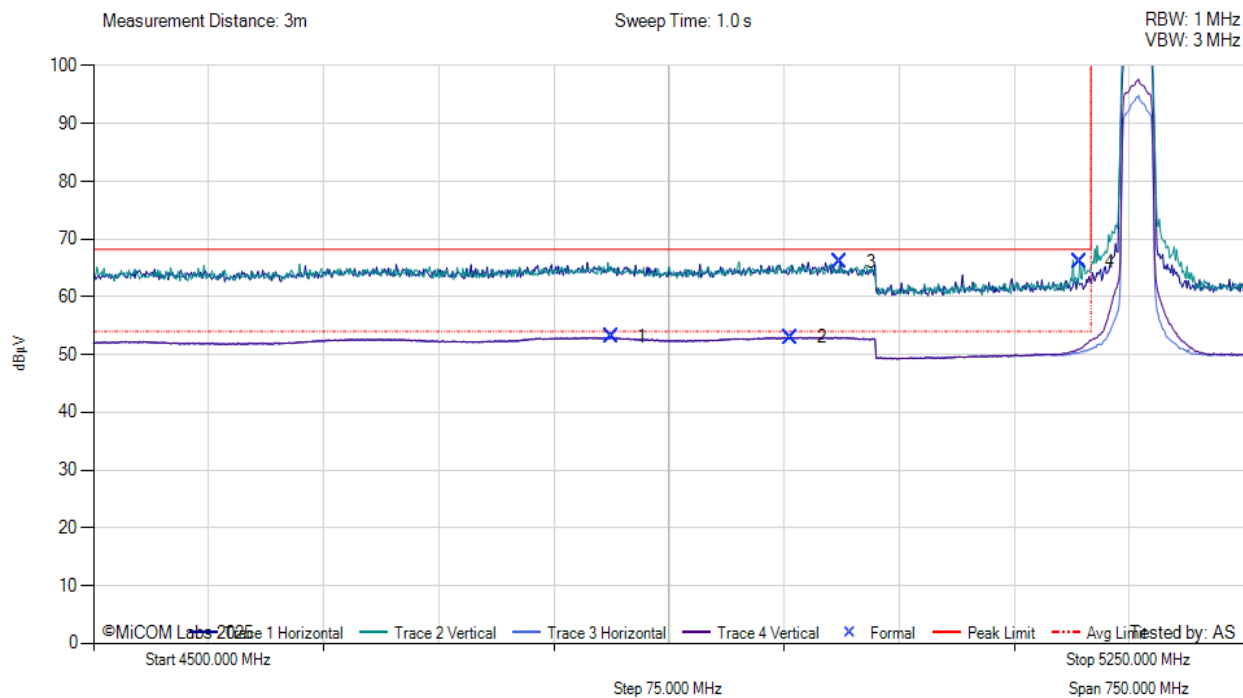
Equipment Configuration for BE 5150 MHZ

Antenna:	H2B1WD1A3B0200	Variant:	802.11ax HE-20
Antenna Gain (dBi):	4	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5180.0	Data Rate:	MCS0
Power Setting:	15	Tested By:	AS

Test Measurement Results



BE 5150 MHz



4500.00 - 5250.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	4837.50	16.15	2.93	34.00	53.08	AVG	Horizontal	199	60	54.0	-0.9	Pass
2	4954.50	16.12	2.89	34.01	53.01	AVG	Vertical	149	179	54.0	-1.0	Pass
3	4986.75	28.94	3.07	34.02	66.02	MaxP	Horizontal	199	60	68.2	-2.2	Pass
4	5142.75	28.83	3.13	34.13	66.09	MaxP	Vertical	199	0	68.2	-2.1	Pass

Test Notes: 802.11 ax HE-20 5180MHz H2B1WD1A3B0200 PS=15 Ch 36

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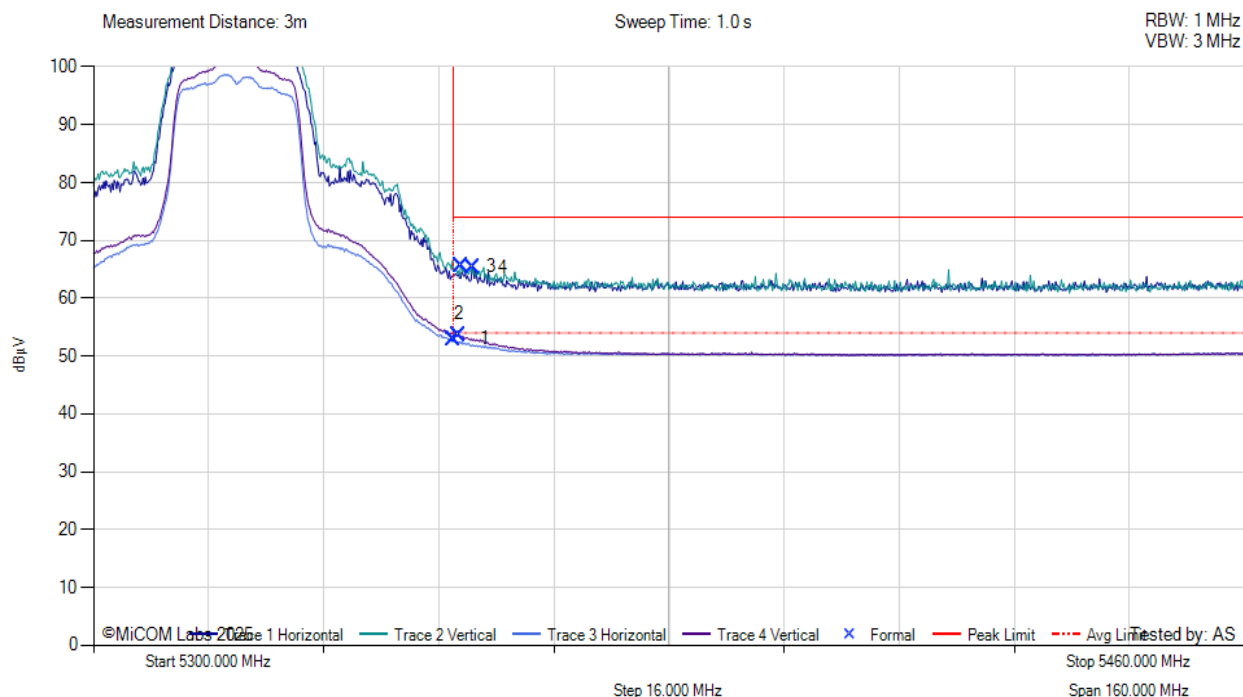
Equipment Configuration for BE 5350 MHZ

Antenna:	H2B1WD1A3B0200	Variant:	802.11a
Antenna Gain (dBi):	4	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5320.0	Data Rate (Mb/s):	6
Power Setting:	18	Tested By:	AS

Test Measurement Results



BE 5350 MHz



5300.00 - 5460.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5350.08	15.47	3.03	34.45	52.95	AVG	Horizontal	199	270	54.0	-1.1	Pass
2	5350.72	16.20	3.03	34.45	53.67	AVG	Vertical	149	269	54.0	-0.3	Pass
3	5351.04	28.01	3.03	34.45	65.49	MaxP	Vertical	149	269	74.0	-8.5	Pass
4	5352.64	27.81	3.03	34.45	65.30	MaxP	Horizontal	199	270	74.0	-8.7	Pass

Test Notes: 802.11 a 5320MHz H2B1WD1A3B0200 PS=18 Ch 64

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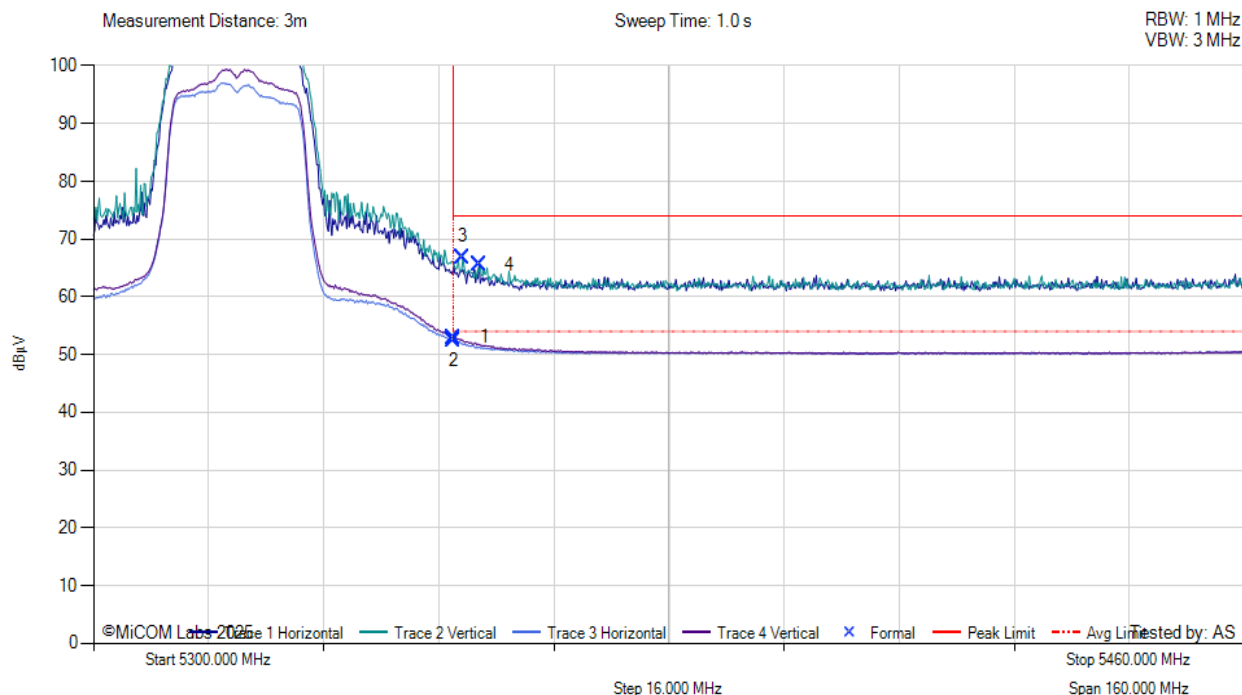
Equipment Configuration for BE 5350 MHZ

Antenna:	H2B1WD1A3B0200	Variant:	802.11n HT-20
Antenna Gain (dBi):	4	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5320.0	Data Rate:	MCS0
Power Setting:	17.5	Tested By:	AS

Test Measurement Results



BE 5350 MHz



5300.00 - 5460.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5350.08	15.54	3.03	34.45	53.02	AVG	Vertical	150	269	54.0	-1.0	Pass
2	5350.08	15.01	3.03	34.45	52.48	AVG	Horizontal	199	270	54.0	-1.5	Pass
3	5351.36	29.41	3.03	34.45	66.89	MaxP	Vertical	150	269	74.0	-7.1	Pass
4	5353.60	28.09	3.03	34.45	65.57	MaxP	Horizontal	199	120	74.0	-8.4	Pass

Test Notes: 802.11N ht-20 5320MHz H2B1WD1A3B0200 PS=17.5 Ch 64

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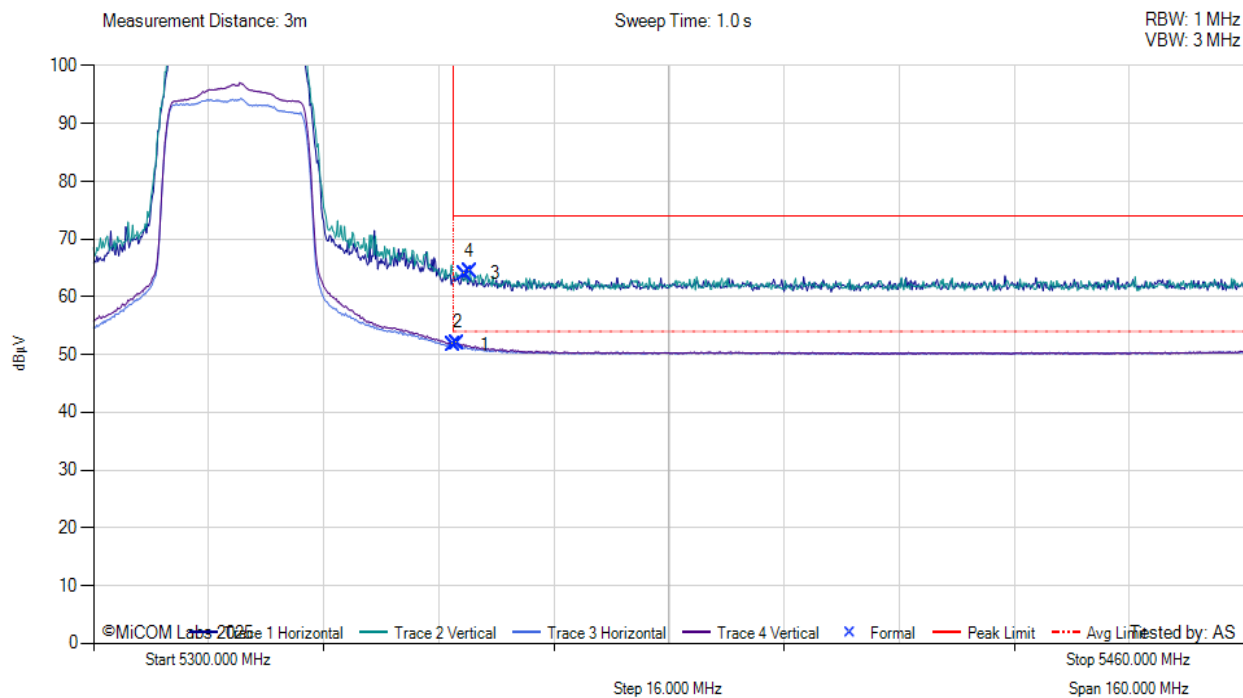
Equipment Configuration for BE 5350 MHZ

Antenna:	H2B1WD1A3B0200	Variant:	802.11ax HE-20
Antenna Gain (dBi):	4	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5320.0	Data Rate:	MCS0
Power Setting:	16.5	Tested By:	AS

Test Measurement Results



BE 5350 MHz



5300.00 - 5460.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5350.08	14.15	3.03	34.45	51.62	AVG	Horizontal	199	270	54.0	-2.4	Pass
2	5350.56	14.51	3.03	34.45	51.99	AVG	Vertical	149	269	54.0	-2.0	Pass
3	5351.68	26.54	3.03	34.45	64.02	MaxP	Horizontal	199	270	74.0	-10.0	Pass
4	5352.32	26.81	3.03	34.45	64.29	MaxP	Vertical	149	59	74.0	-9.7	Pass

Test Notes: 802.11ax HE-20 5320MHz H2B1WD1A3B0200 PS=16.5 Ch 64

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5470 - 5725 MHz

CCMP25		Restricted-Edge Freq	Limit 68.2dBµV/m	Limit 54.0dBµV/m	Power Setting
Operational Mode	Operating Frequency (MHz)	MHz	dBµV/m	dBµV/m	
802.11a	5500.00	5460.00	65.36	52.67	18
802.11n HT-20	5500.00	5460.00	64.04	51.92	17.5
802.11ax HE-20	5500.00	5460.00	65.18	52.67	17.5

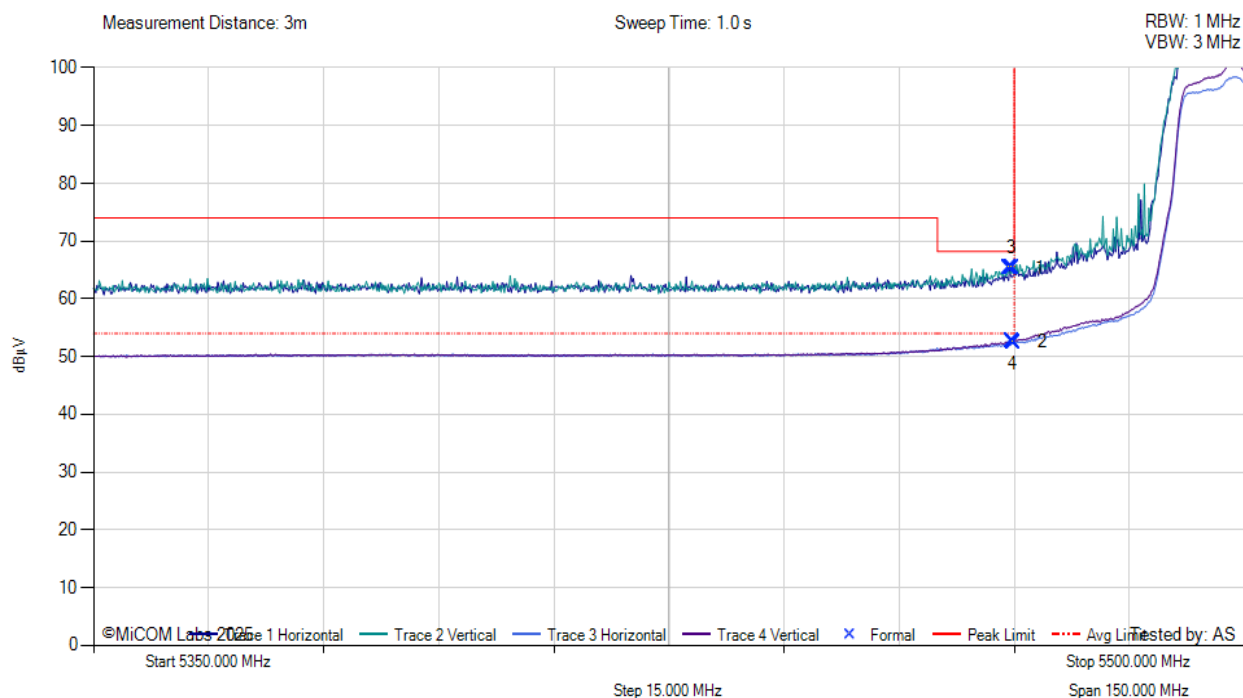
Equipment Configuration for BE 5460 MHZ

Antenna:	H2B1WD1A3B0200	Variant:	802.11a
Antenna Gain (dBi):	4	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5500.0	Data Rate (Mb/s):	6
Power Setting:	18	Tested By:	AS

Test Measurement Results



BE 5460 MHz



5350.00 - 5500.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5469.40	27.73	3.11	34.52	65.36	MaxP	Horizontal	199	270	68.2	-2.8	Pass
2	5469.70	15.04	3.11	34.52	52.67	AVG	Vertical	199	119	54.0	-1.3	Pass
3	5469.70	27.63	3.11	34.52	65.26	MaxP	Vertical	150	119	68.2	-2.9	Pass
4	5469.85	14.67	3.11	34.52	52.31	AVG	Horizontal	199	120	54.0	-1.7	Pass

Test Notes: 802.11a 5500MHz H2B1WD1A3B0200 PS=18 Ch 100

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Equipment Configuration for BE 5460 MHZ

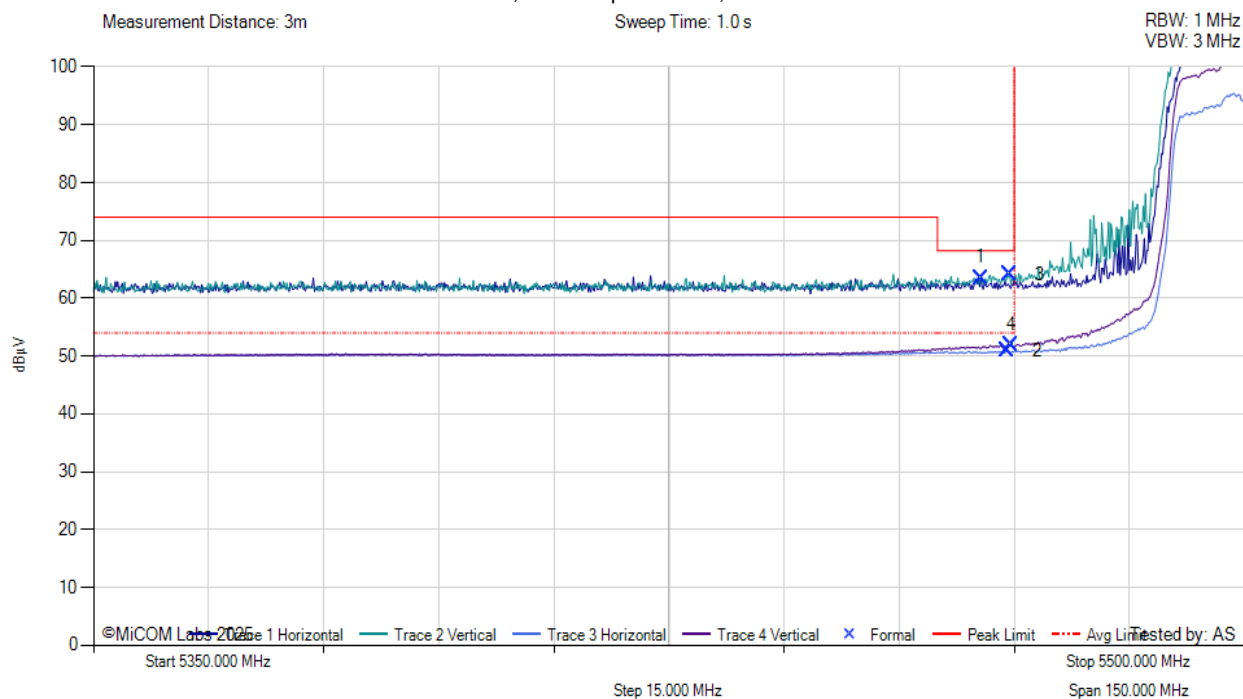
Antenna:	H2B1WD1A3B0200	Variant:	802.11n HT-20
Antenna Gain (dBi):	4	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5500.0	Data Rate:	MCS0
Power Setting:	17.5	Tested By:	AS

Test Measurement Results

BE 5460 MHz



Variant: , Test Freq: 0.00 MHz, Antenna: H2B1WD1A3B0200



5350.00 - 5500.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5465.65	25.86	3.14	34.52	63.52	MaxP	Horizontal	150	240	68.2	-4.7	Pass
2	5469.10	13.25	3.11	34.52	50.88	AVG	Horizontal	199	270	54.0	-3.1	Pass
3	5469.40	26.41	3.11	34.52	64.04	MaxP	Vertical	150	0	68.2	-4.2	Pass
4	5469.55	14.29	3.11	34.52	51.92	AVG	Vertical	150	0	54.0	-2.1	Pass

Test Notes: 802.11n HT-20 5500MHz H2B1WD1A3B0200 PS=17.5 Ch 100

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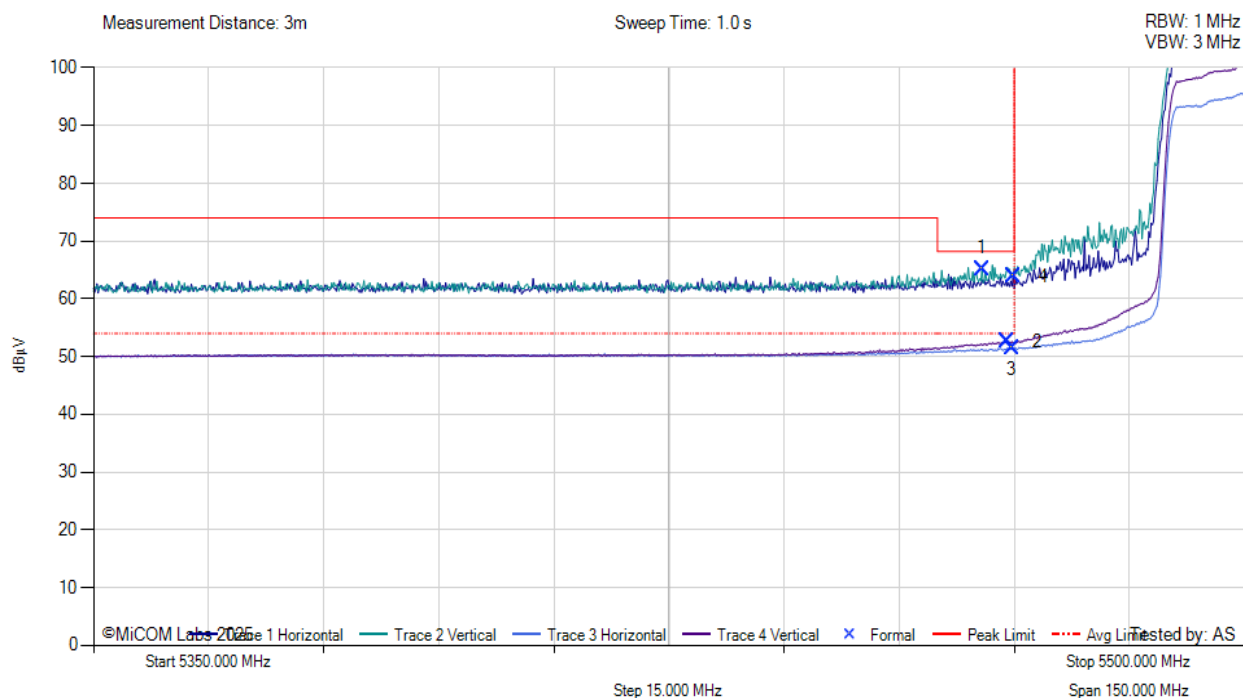
Equipment Configuration for BE 5460 MHZ

Antenna:	H2B1WD1A3B0200	Variant:	802.11ax HE-20
Antenna Gain (dBi):	4	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5500.0	Data Rate:	MCS0
Power Setting:	17.5	Tested By:	AS

Test Measurement Results



BE 5460 MHz



5350.00 - 5500.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5465.80	27.52	3.14	34.52	65.18	MaxP	Vertical	149	0	68.2	-3.0	Pass
2	5469.10	15.03	3.11	34.52	52.67	AVG	Vertical	199	120	54.0	-1.3	Pass
3	5469.70	13.81	3.11	34.52	51.44	AVG	Horizontal	199	270	54.0	-2.6	Pass
4	5469.85	26.20	3.11	34.52	63.83	MaxP	Horizontal	199	270	68.2	-4.4	Pass

Test Notes: 802.11ax HE-20 5500MHz H2B1WD1A3B0200 PS=17.5 Ch 100

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5725 – 5850 MHz

Low Band-Edge

CCMP25		Band-Edge Freq	Limit 68.2dBµV/m	Limit 68.2dBµV/m	Power Setting
Operational Mode	Operating Frequency (MHz)	MHz	dBµV/m	dBµV/m	
802.11a	5745.00	5725.00	67.49	66.78	18
802.11n HT-20	5745.00	5725.00	66.88	66.82	18
802.11ax HE-20	5745.00	5725.00	67.21	66.92	18

High Band-Edge

CCMP25		Band-Edge Freq	Limit 68.2dBµV/m	Limit 68.2dBµV/m	Power Setting
Operational Mode	Operating Frequency (MHz)	MHz	dBµV/m	dBµV/m	
802.11a	5825.00	5850.00	68.15	68.08	15
802.11n HT-20	5825.00	5850.00	68.39	68.07	16
802.11ax HE-20	5825.00	5850.00	68.13	68.09	16

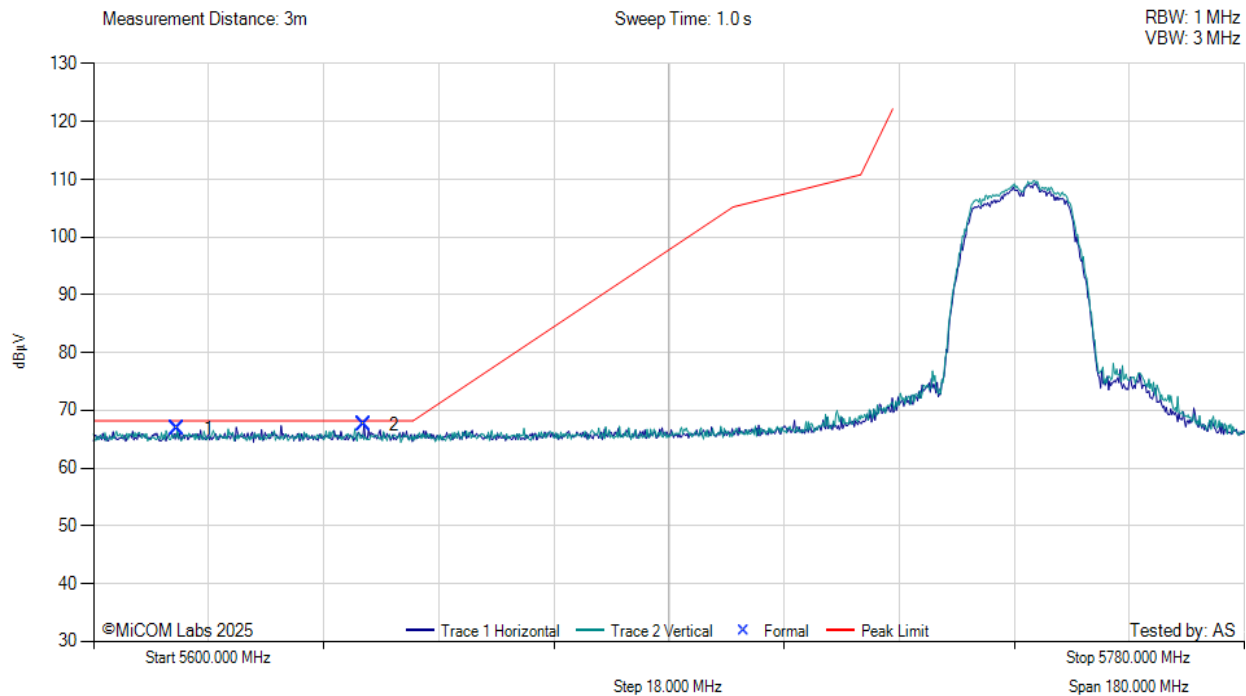
Equipment Configuration for BE 5725 MHZ

Antenna:	H2B1WD1A3B0200	Variant:	802.11a
Antenna Gain (dBi):	4	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5745	Data Rate (Mb/s):	6
Power Setting:	18	Tested By:	AS

Test Measurement Results



BE 5725 MHz



5600.00 - 5780.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5613.14	29.05	3.17	34.56	66.78	MaxP	Vertical	199	209	68.2	-1.4	Pass
2	5642.30	29.68	3.22	34.58	67.49	MaxP	Horizontal	149	300	68.2	-0.7	Pass

Test Notes: 802.11a 5745MHz H2B1WD1A3B0200 PS=18 Ch 149

[back to matrix](#)

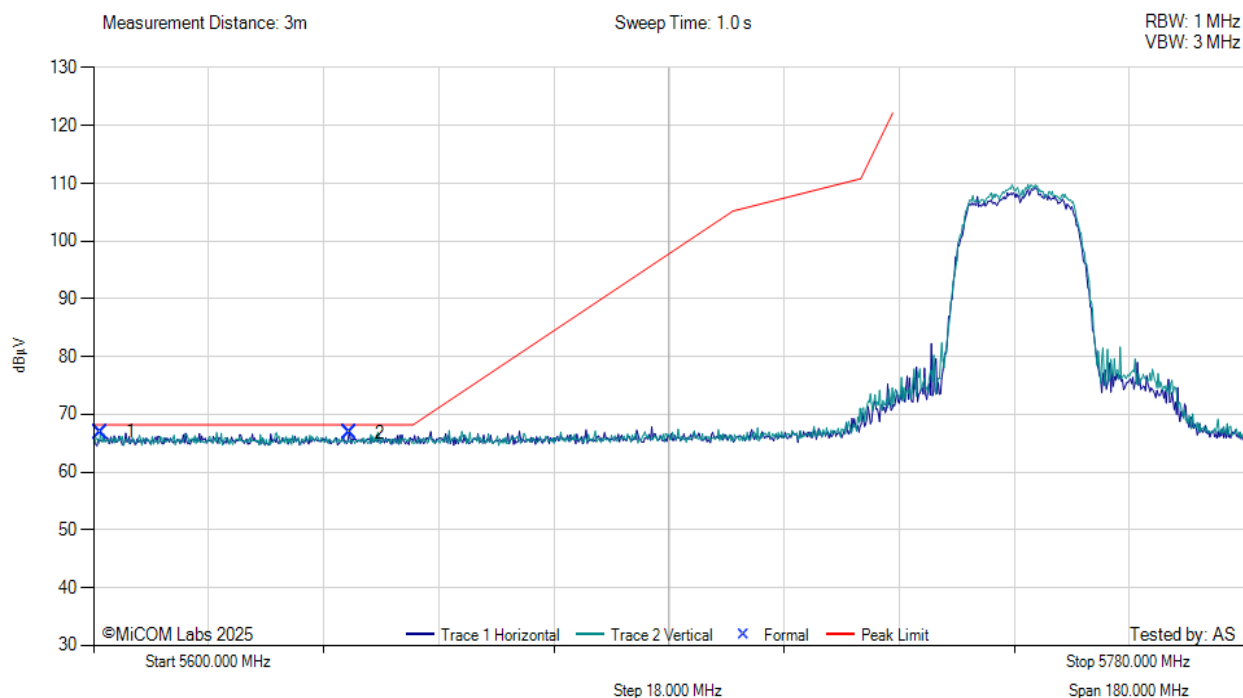
Equipment Configuration for BE 5725 MHZ

Antenna:	H2B1WD1A3B0200	Variant:	802.11n HT-20
Antenna Gain (dBi):	4	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5745	Data Rate:	MCS0
Power Setting:	18	Tested By:	AS

Test Measurement Results



BE 5725 MHz



5600.00 - 5780.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5601.08	29.21	3.13	34.55	66.88	MaxP	Vertical	150	209	68.2	-1.3	Pass
2	5639.96	29.03	3.21	34.58	66.82	MaxP	Horizontal	199	30	68.2	-1.4	Pass

Test Notes: 802.11n HT20 5745MHz H2B1WD1A3B0200 PS=18 Ch 149

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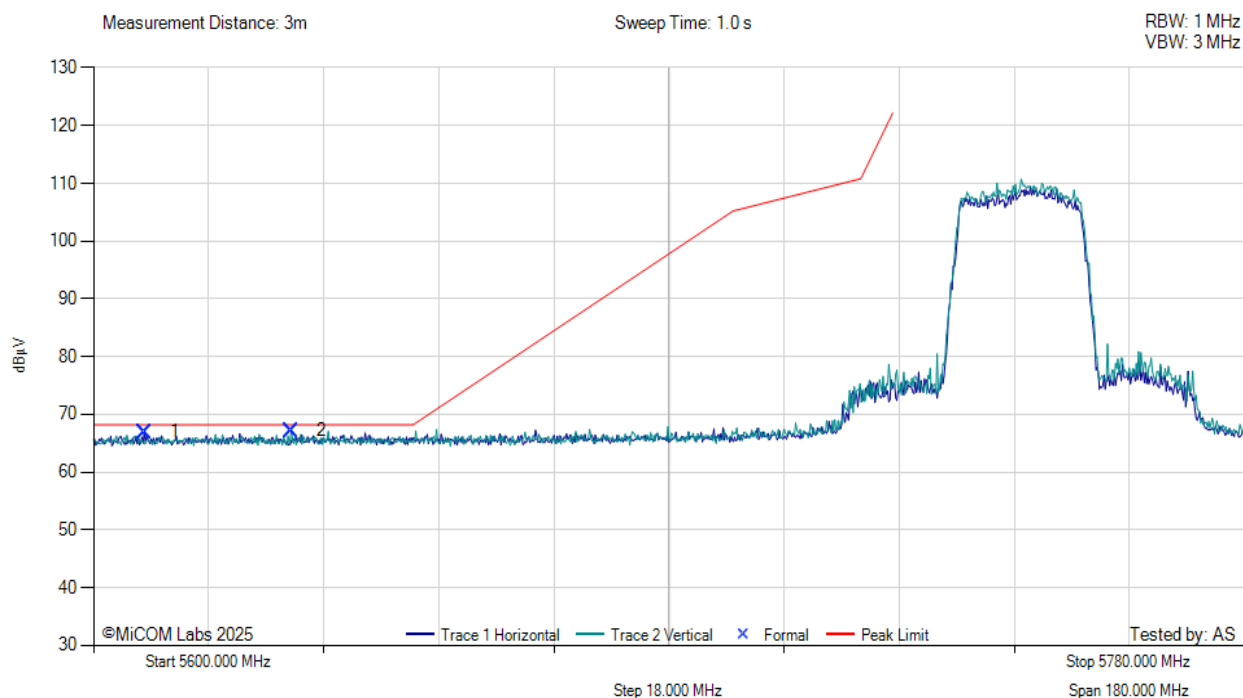
Equipment Configuration for BE 5725 MHZ

Antenna:	H2B1WD1A3B0200	Variant:	802.11ax HE-20
Antenna Gain (dBi):	4	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5745	Data Rate:	MCS0
Power Setting:	18	Tested By:	AS

Test Measurement Results



BE 5725 MHz



5600.00 - 5780.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5607.92	29.21	3.16	34.56	66.92	MaxP	Horizontal	199	240	68.2	-1.3	Pass
2	5630.96	29.58	3.22	34.58	67.21	MaxP	Vertical	149	330	68.2	-1.0	Pass

Test Notes: 802.11ax HE-20 5745MHz H2B1WD1A3B0200 PS=18 Ch 149

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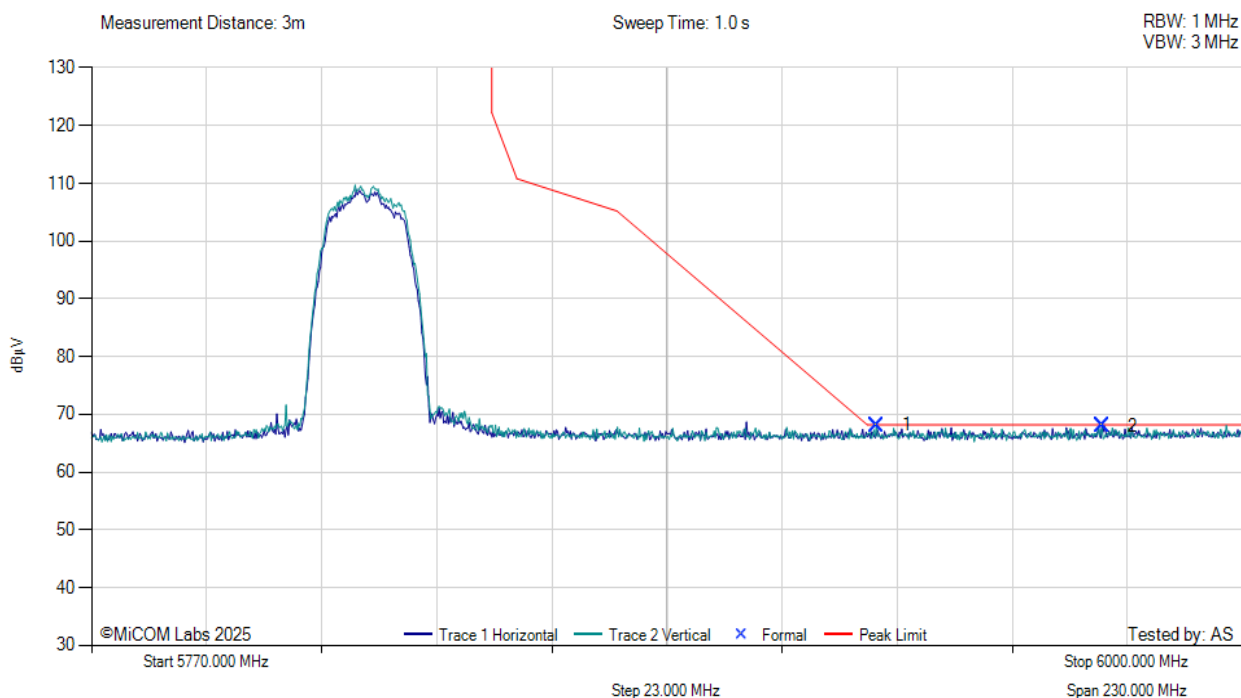
Equipment Configuration for BE 5850 MHZ

Antenna:	H2B1WD1A3B0200	Variant:	802.11a
Antenna Gain (dBi):	4	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5825	Data Rate (Mb/s):	6
Power Setting:	15	Tested By:	AS

Test Measurement Results



BE 5850 MHz



5770.00 - 6000.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5926.86	29.76	3.29	35.10	68.15	MaxP	Vertical	150	179	68.2	-0.1	Pass
2	5971.94	29.66	3.23	35.19	68.08	MaxP	Horizontal	199	240	68.2	-0.1	Pass

Test Notes: 802.11a 5825MHz H2B1WD1A3B0200 PS=15 Ch 165

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Equipment Configuration for BE 5850 MHZ

Antenna:	H2B1WD1A3B0200	Variant:	802.11n HT-20
Antenna Gain (dBi):	4	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5825	Data Rate:	MCS0
Power Setting:	16	Tested By:	AS

Test Measurement Results



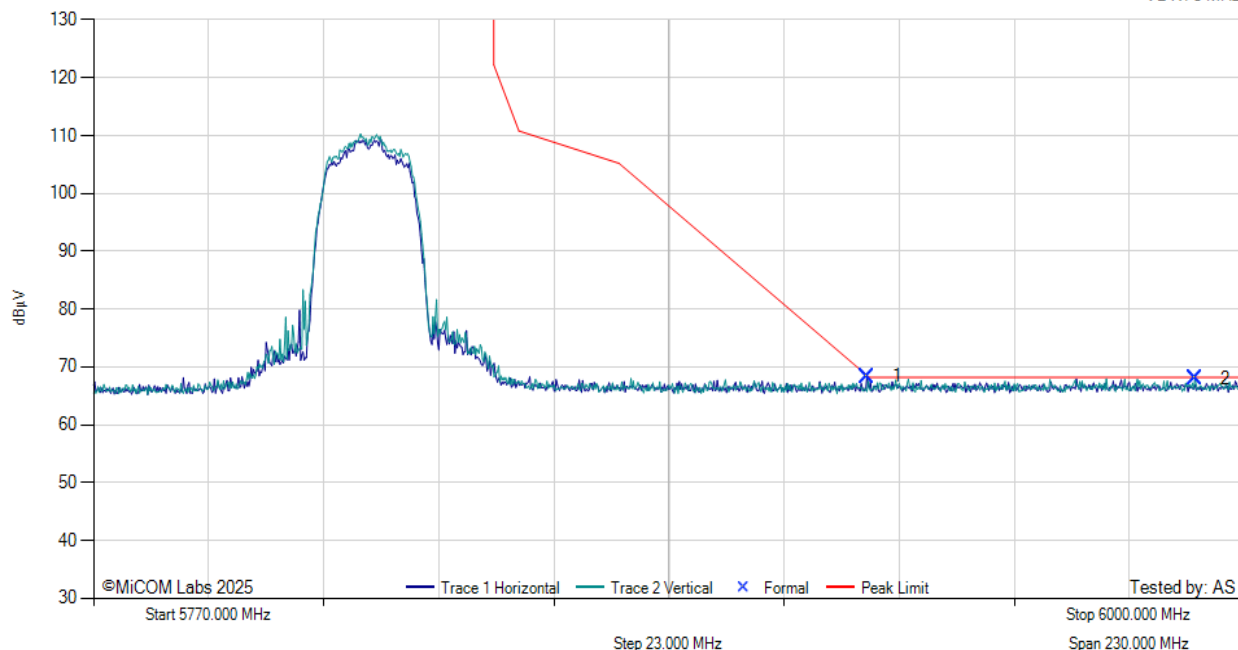
BE 5850 MHz

Antenna: H2B1WD1A3B0200

Measurement Distance: 3m

Sweep Time: 1.0 s

RBW: 1 MHz
VBW: 3 MHz



5770.00 - 6000.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5924.56	30.04	3.26	35.10	68.39	MaxP	Horizontal	149	270	68.6	-0.2	Pass
2	5990.11	29.62	3.23	35.23	68.07	MaxP	Vertical	199	330	68.2	-0.2	Pass

Test Notes: 802.11n HT-20 5825MHz H2B1WD1A3B0200 PS=16 Ch 165

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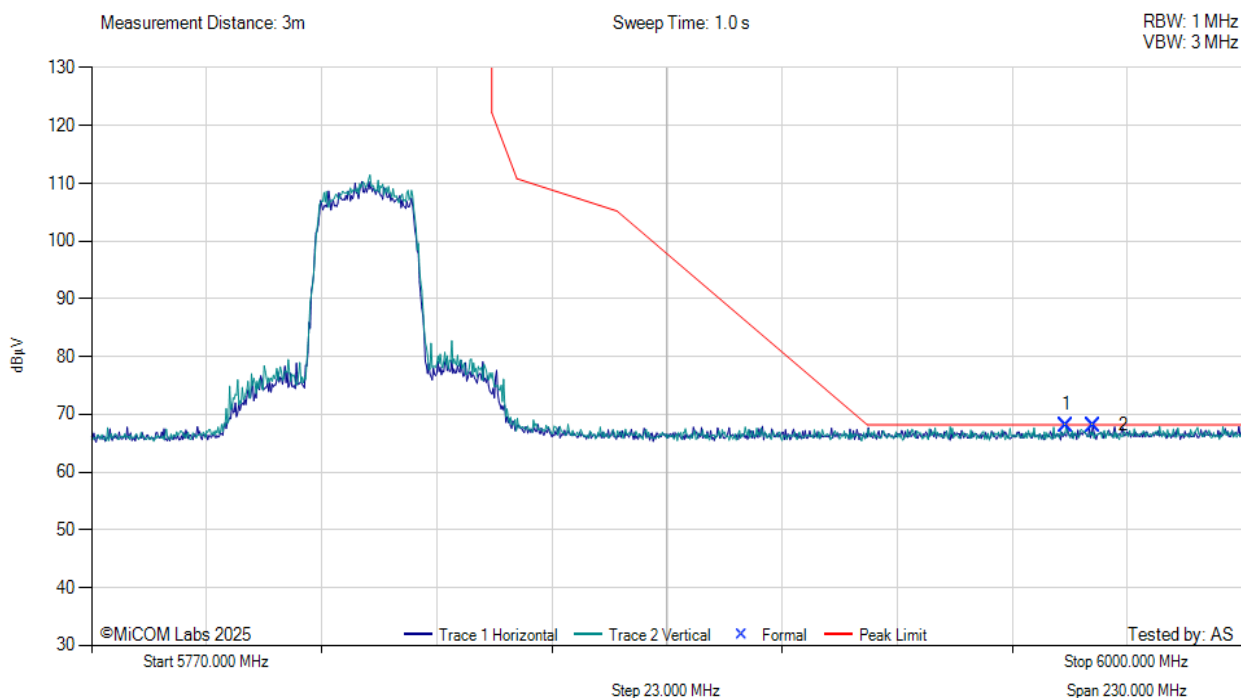
Equipment Configuration for BE 5850 MHZ

Antenna:	H2B1WD1A3B0200	Variant:	802.11ax HE-20
Antenna Gain (dBi):	4	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5825	Data Rate:	MCS0
Power Setting:	16	Tested By:	AS

Test Measurement Results



BE 5850 MHz



5770.00 - 6000.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5964.81	29.72	3.23	35.18	68.13	MaxP	Vertical	199	209	68.2	-0.1	Pass
2	5970.10	29.67	3.23	35.19	68.09	MaxP	Horizontal	148	60	68.2	-0.1	Pass

Test Notes: 802.11n HE-20 5825MHz H2B1WD1A3B0200 PS=16 Ch 165

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9.1.2.2. GW.49.A153

5150 - 5250 MHz

CCMP25		Band-Edge Freq	Limit 68.2dBμV/m	Limit 54.0dBμV/m	Power Setting
Operational Mode	Operating Frequency (MHz)	MHz	dBμV/m	dBμV/m	
802.11a	5180.00	5150.00	66.26	53.18	15
802.11n HT-20	5180.00	5150.00	66.22	53.18	15
802.11ax HE-20	5180.00	5150.00	66.19	53.06	14

5250 - 5350 MHz

CCMP25		Band-Edge Freq	Limit 74.0dBμV/m	Limit 54.0dBμV/m	Power Setting
Operational Mode	Operating Frequency (MHz)	MHz	dBμV/m	dBμV/m	
802.11a	5320.00	5350.00	65.97	53.35	17
802.11n HT-20	5320.00	5350.00	65.69	52.40	16.5
802.11ax HE-20	5320.00	5350.00	64.39	51.88	15.5

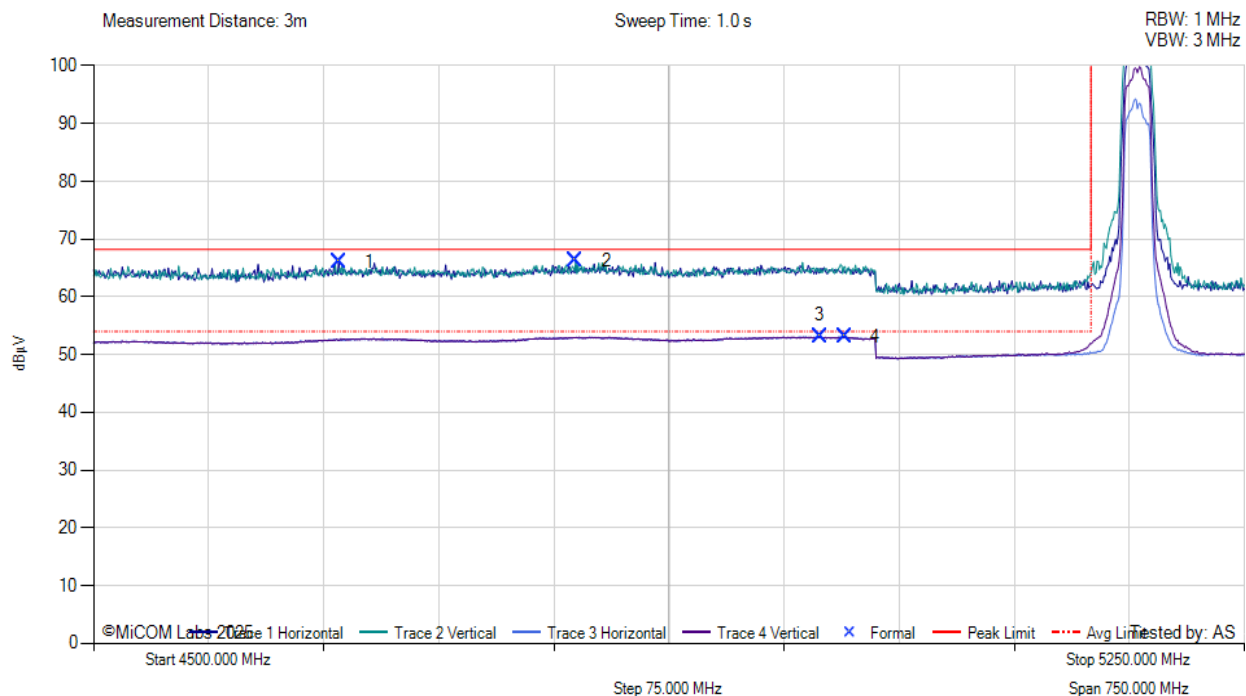
Equipment Configuration for BE 5150 MHZ

Antenna:	GW.49.A153	Variant:	802.11a
Antenna Gain (dBi):	3.8	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5180.0	Data Rate (Mb/s):	6
Power Setting:	15	Tested By:	AS

Test Measurement Results



BE 5150 MHz



4500.00 - 5250.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	4659.75	29.14	2.87	34.01	66.02	MaxP	Horizontal	199	150	68.2	-2.2	Pass
2	4814.25	28.54	2.90	34.01	66.26	MaxP	Vertical	149	330	68.2	-1.9	Pass
3	4973.25	16.23	2.94	34.01	53.18	AVG	Horizontal	199	90	54.0	-0.8	Pass
4	4989.75	15.94	3.11	34.02	53.06	AVG	Vertical	149	0	54.0	-0.9	Pass

Test Notes: 802.11a 5180MHz GW.49.A.153 PS=15 Ch 36

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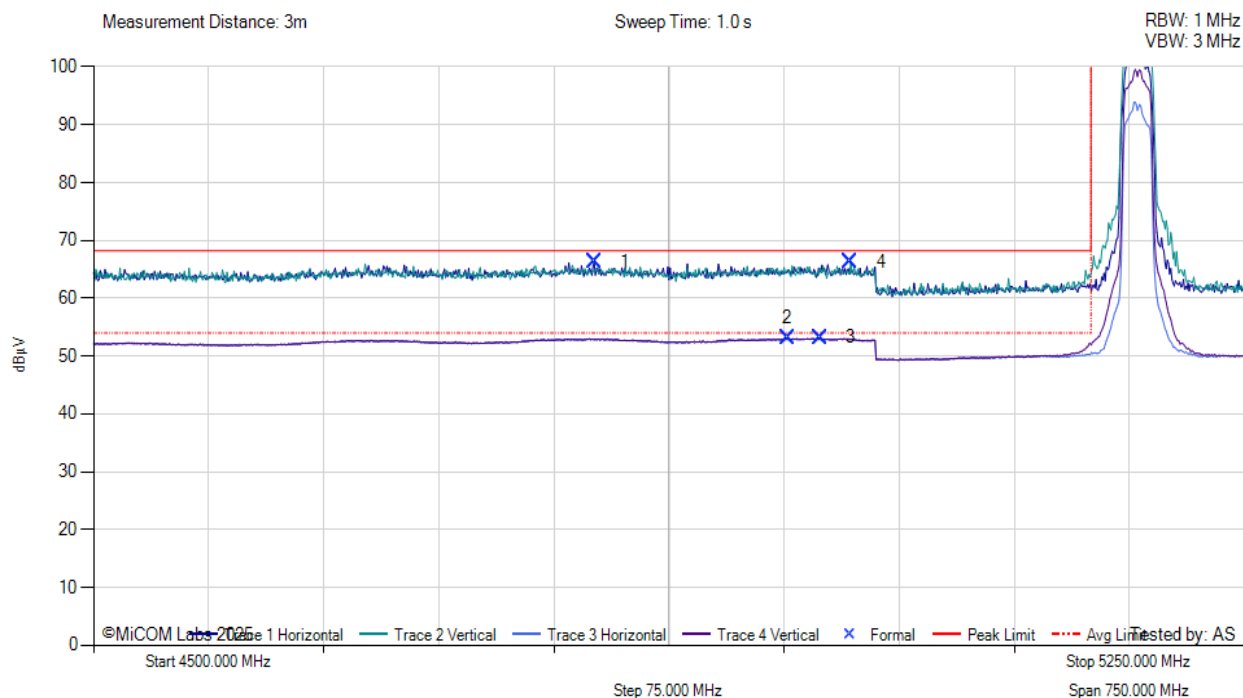
Equipment Configuration for BE 5150 MHZ

Antenna:	GW.49.A153	Variant:	802.11n HT-20
Antenna Gain (dBi):	3.8	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5180.0	Data Rate:	MCS0
Power Setting:	15	Tested By:	AS

Test Measurement Results



BE 5150 MHz



4500.00 - 5250.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	4826.25	29.31	2.91	34.00	66.22	MaxP	Horizontal	199	240	68.2	-2.0	Pass
2	4952.25	16.14	2.88	34.01	53.03	AVG	Vertical	149	149	54.0	-1.0	Pass
3	4973.25	16.23	2.94	34.01	53.18	AVG	Horizontal	199	300	54.0	-0.8	Pass
4	4993.50	29.14	3.06	34.02	66.22	MaxP	Vertical	149	59	68.2	-2.0	Pass

Test Notes: 802.11n HT-20 5180MHz GW.49.A.153 PS=15 Ch 36

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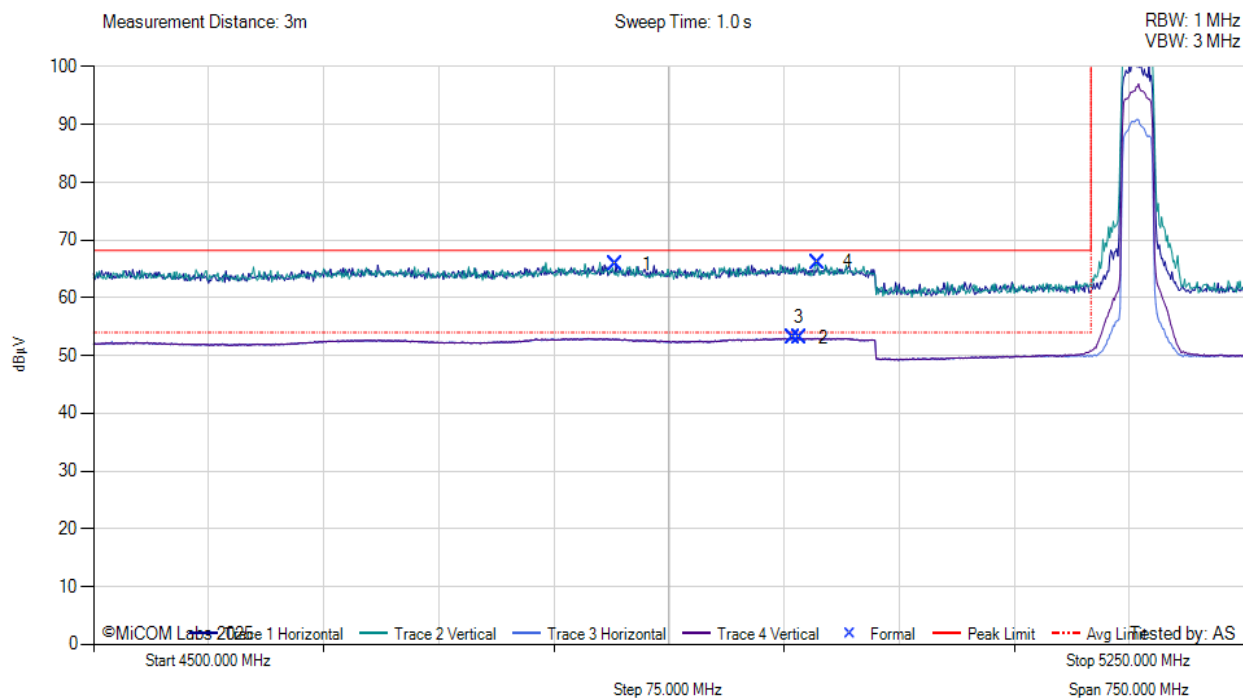
Equipment Configuration for BE 5150 MHZ

Antenna:	GW.49.A153	Variant:	802.11ax HE-20
Antenna Gain (dBi):	3.8	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5180.0	Data Rate:	MCS0
Power Setting:	14	Tested By:	AS

Test Measurement Results



BE 5150 MHz



4500.00 - 5250.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	4840.50	28.88	2.93	34.00	65.82	MaxP	Horizontal	199	180	68.2	-2.4	Pass
2	4956.00	16.16	2.89	34.01	53.06	AVG	Vertical	149	239	54.0	-0.9	Pass
3	4959.75	16.13	2.89	34.01	53.04	AVG	Horizontal	199	60	54.0	-1.0	Pass
4	4971.75	29.24	2.94	34.01	66.19	MaxP	Vertical	149	179	68.2	-2.0	Pass

Test Notes: 802.11ax HE-20 5180MHz GW.49.A.153 PS=14 Ch 36

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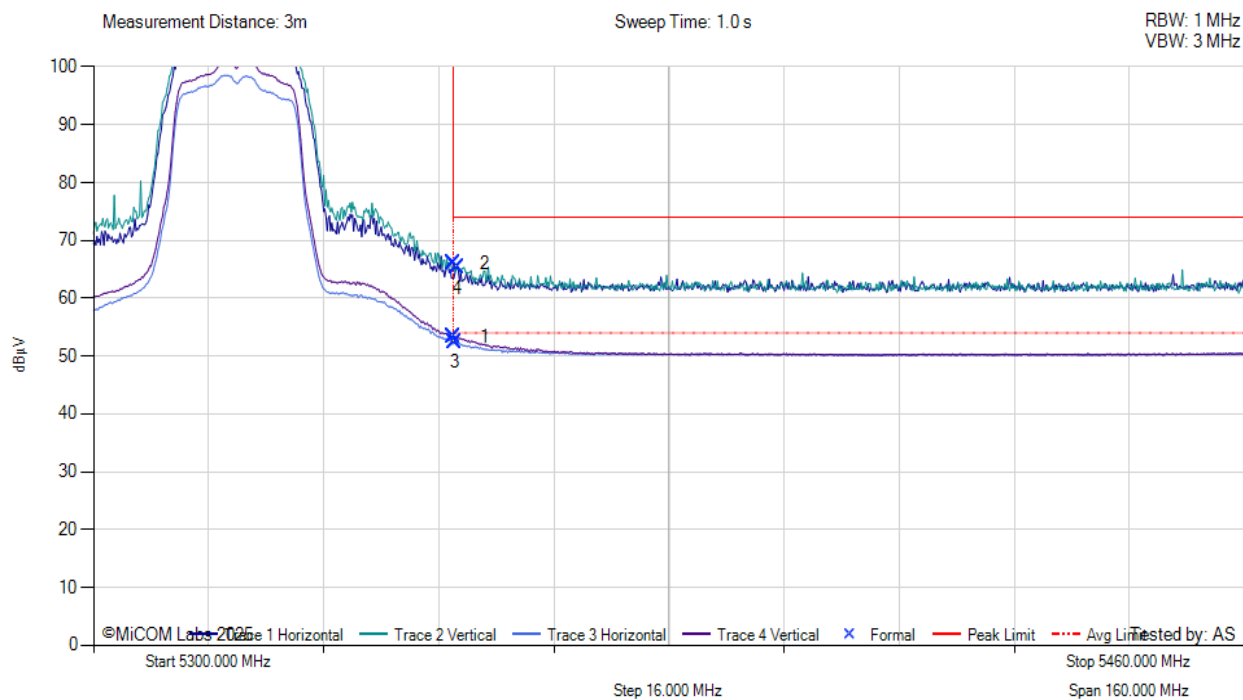
Equipment Configuration for BE 5350 MHZ

Antenna:	GW.49.A153	Variant:	802.11a
Antenna Gain (dBi):	3.8	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5320.0	Data Rate (Mb/s):	6
Power Setting:	17	Tested By:	AS

Test Measurement Results



BE 5350 MHz



5300.00 - 5460.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5350.08	15.87	3.03	34.45	53.35	AVG	Vertical	150	239	54.0	-0.7	Pass
2	5350.08	28.49	3.03	34.45	65.97	MaxP	Vertical	150	239	74.0	-8.0	Pass
3	5350.24	15.02	3.03	34.45	52.49	AVG	Horizontal	150	240	54.0	-1.5	Pass
4	5350.56	27.90	3.03	34.45	65.37	MaxP	Horizontal	150	240	74.0	-8.6	Pass

Test Notes: 802.11a 5320MHz GW.49.A.153 PS=17 Ch 64

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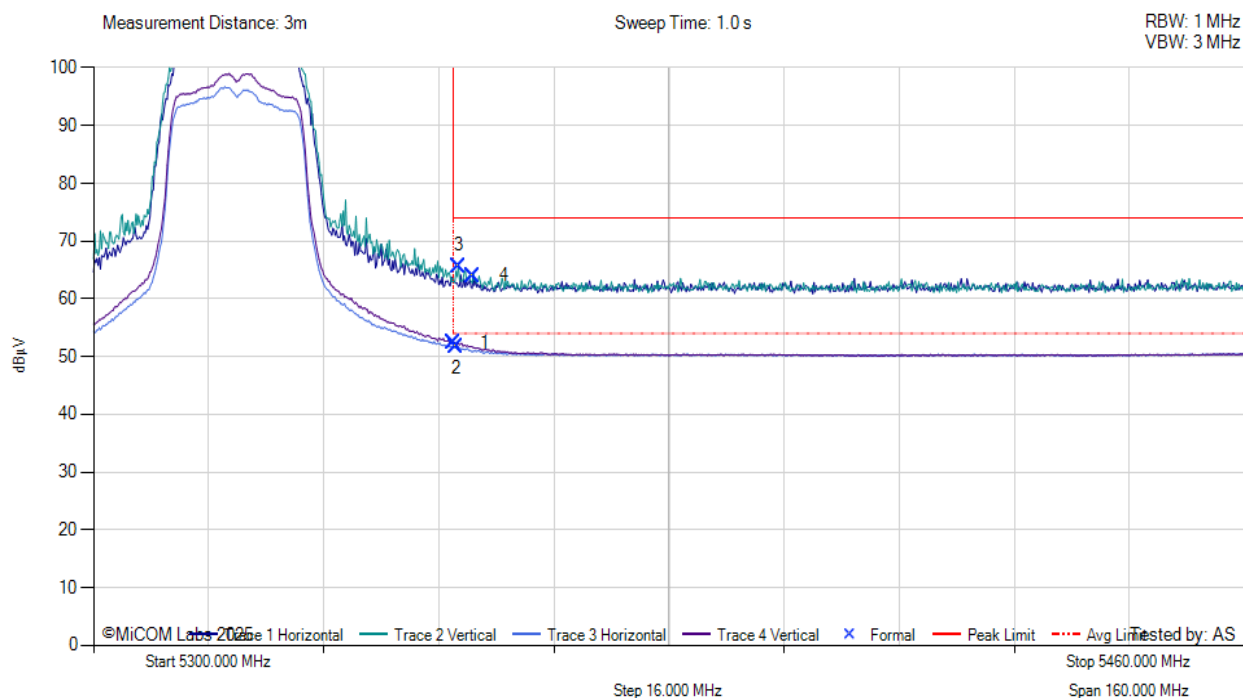
Equipment Configuration for BE 5350 MHZ

Antenna:	GW.49.A153	Variant:	802.11n HT-20
Antenna Gain (dBi):	3.8	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5320.0	Data Rate:	MCS0
Power Setting:	16.5	Tested By:	AS

Test Measurement Results



BE 5350 MHz



5300.00 - 5460.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5350.08	14.93	3.03	34.45	52.40	AVG	Vertical	149	239	54.0	-1.6	Pass
2	5350.40	14.23	3.03	34.45	51.71	AVG	Horizontal	149	240	54.0	-2.3	Pass
3	5350.72	28.22	3.03	34.45	65.69	MaxP	Vertical	199	299	74.0	-8.3	Pass
4	5352.80	26.53	3.03	34.45	64.01	MaxP	Horizontal	149	240	74.0	-10.0	Pass

Test Notes: 802.11n HT-20 5320MHz GW.49.A.153 PS=16.5 Ch 64

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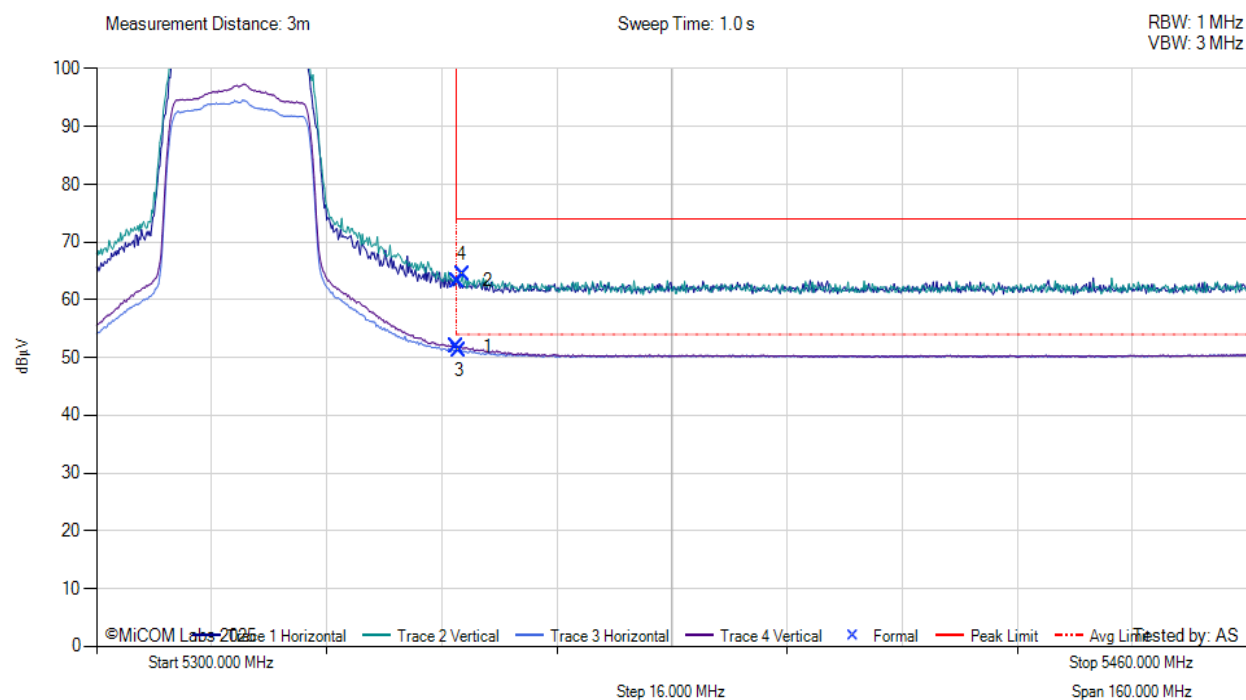
Equipment Configuration for BE 5350 MHZ

Antenna:	GW.49.A153		Variant:	802.11ax HE-20
Antenna Gain (dBi):	3.8		Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable		Duty Cycle (%):	99
Channel Frequency (MHz):	5320.0		Data Rate:	MCS0
Power Setting:	15.5		Tested By:	AS

Test Measurement Results



BE 5350 MHz



5300.00 - 5460.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5350.08	14.40	3.03	34.45	51.88	AVG	Vertical	149	239	54.0	-2.1	Pass
2	5350.24	25.83	3.03	34.45	63.30	MaxP	Horizontal	149	240	74.0	-10.7	Pass
3	5350.40	13.81	3.03	34.45	51.29	AVG	Horizontal	149	240	54.0	-2.7	Pass
4	5350.88	26.92	3.03	34.45	64.39	MaxP	Vertical	149	239	74.0	-9.6	Pass

Test Notes: 802.11ax HE-20 5320MHz GW.49.A. 153 PS=15.5 Ch 64

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5470 - 5725 MHz

CCMP25		Restricted-Edge Freq	Limit 68.2dBµV/m	Limit 54.0dBµV/m	Power Setting
Operational Mode	Operating Frequency (MHz)	MHz	dBµV/m	dBµV/m	
802.11a	5500.00	5460.00	65.75	53.70	18
802.11n HT-20	5500.00	5460.00	64.69	52.65	17.5
802.11ax HE-20	5500.00	5460.00	66.41	53.23	17

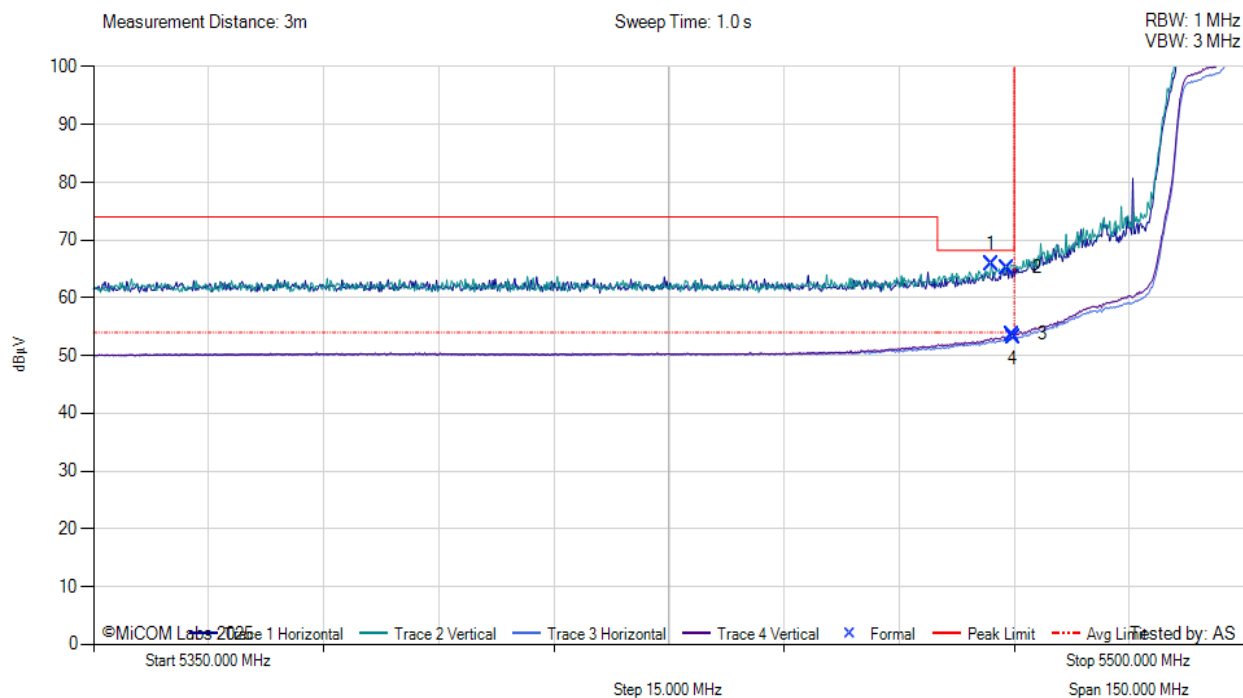
Equipment Configuration for BE 5460 MHZ

Antenna:	GW.49.A153	Variant:	802.11a
Antenna Gain (dBi):	3.8	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5500.0	Data Rate (Mb/s):	6
Power Setting:	18	Tested By:	AS

Test Measurement Results



BE 5460 MHz



5350.00 - 5500.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5467.00	28.10	3.13	34.52	65.75	MaxP	Vertical	200	0	68.2	-2.4	Pass
2	5469.10	27.53	3.11	34.52	65.16	MaxP	Horizontal	149	240	68.2	-3.0	Pass
3	5469.70	16.06	3.11	34.52	53.70	AVG	Vertical	200	299	54.0	-0.3	Pass
4	5469.85	15.51	3.11	34.52	53.14	AVG	Horizontal	149	240	54.0	-0.9	Pass

Test Notes: 802.11a 5460MHz GW.49.A.153 PS=18 Ch 100

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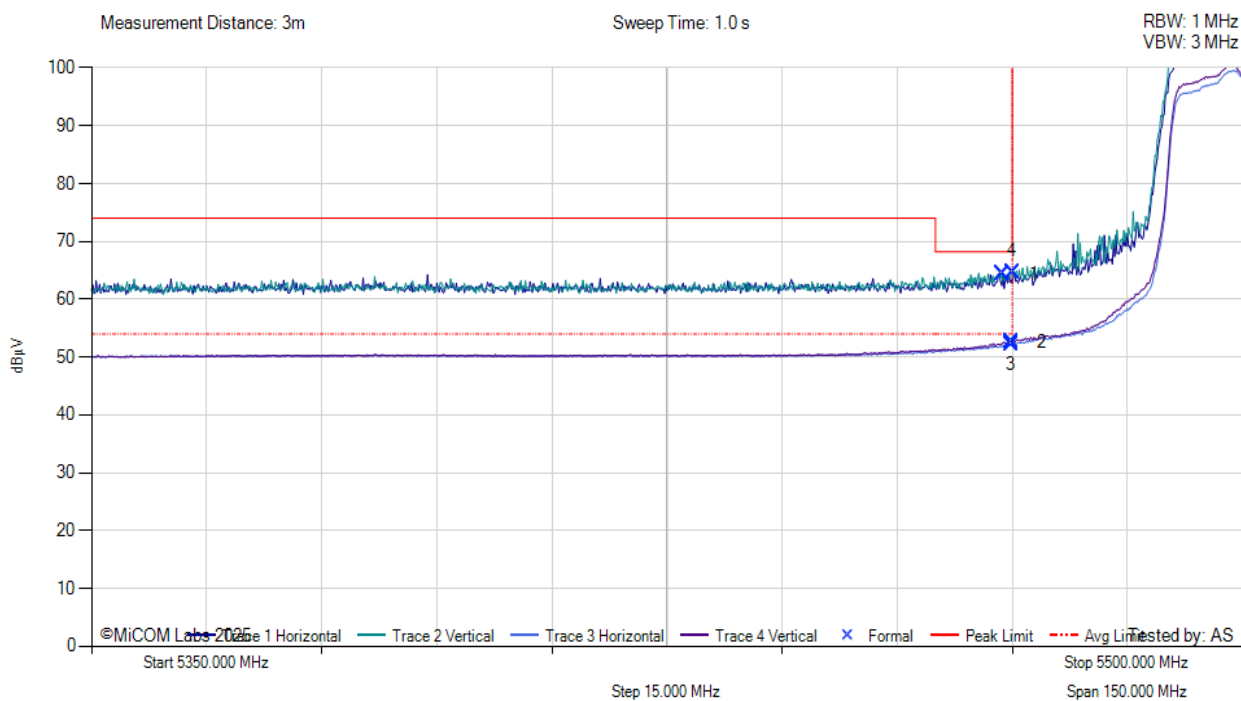
Equipment Configuration for BE 5460 MHZ

Antenna:	GW.49.A153	Variant:	802.11n HT-20
Antenna Gain (dBi):	3.8	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5500.0	Data Rate:	MCS0
Power Setting:	17.5	Tested By:	AS

Test Measurement Results



BE 5460 MHz



5350.00 - 5500.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5468.80	26.76	3.11	34.52	64.40	MaxP	Horizontal	149	240	68.2	-3.8	Pass
2	5469.85	15.02	3.11	34.52	52.65	AVG	Vertical	199	299	54.0	-1.4	Pass
3	5469.85	14.59	3.11	34.52	52.22	AVG	Horizontal	149	240	54.0	-1.8	Pass
4	5470.00	27.05	3.11	34.52	64.69	MaxP	Vertical	199	299	68.2	-3.5	Pass

Test Notes: 802.11n HT-20 5500MHz GW.49.A.153 PS=17.5 Ch 100

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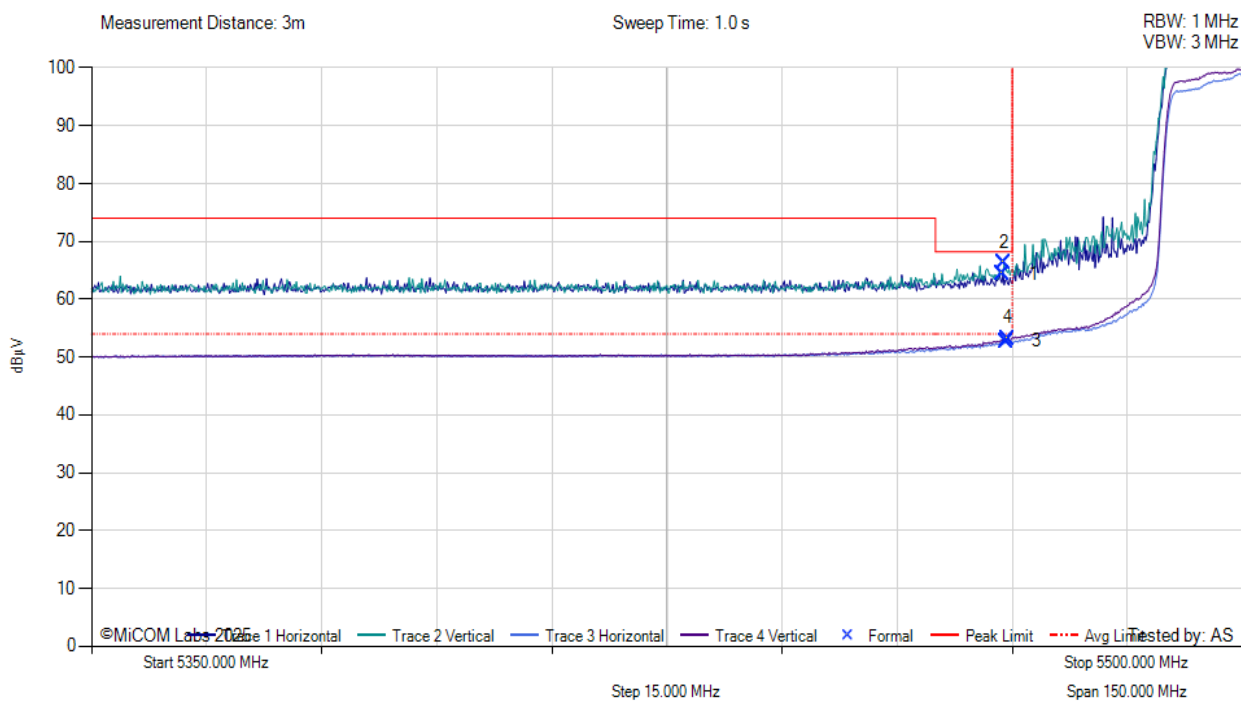
Equipment Configuration for BE 5460 MHZ

Antenna:	GW.49.A153	Variant:	802.11ax HE-20
Antenna Gain (dBi):	3.8	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5500.0	Data Rate:	MCS0
Power Setting:	17	Tested By:	AS

Test Measurement Results



BE 5460 MHz



5350.00 - 5500.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5468.80	26.78	3.11	34.52	64.41	MaxP	Horizontal	199	240	68.2	-3.8	Pass
2	5468.95	28.59	3.11	34.52	66.23	MaxP	Vertical	199	299	68.2	-2.0	Pass
3	5469.25	15.09	3.11	34.52	52.72	AVG	Horizontal	149	240	54.0	-1.3	Pass
4	5469.40	15.60	3.11	34.52	53.23	AVG	Vertical	199	299	54.0	-0.8	Pass

Test Notes: 802.11 ax HE-20 5500MHz GW.49.A.153 PS=17 Ch 100

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5725 – 5850 MHz

Low Band-Edge

MP15/13		Band-Edge Freq	Limit 68.2dBµV/m	Limit 68.2dBµV/m	Power Setting
Operational Mode	Operating Frequency (MHz)	MHz	dBµV/m	dBµV/m	
802.11a	5745.00	5725.00	66.90	66.87	18
802.11n HT-20	5745.00	5725.00	67.14	67.01	18
802.11ax HE-20	5745.00	5725.00	66.97	67.36	18

High Band-Edge

MP15/13		Band-Edge Freq	Limit 68.2dBµV/m	Limit 68.2dBµV/m	Power Setting
Operational Mode	Operating Frequency (MHz)	MHz	dBµV/m	dBµV/m	
802.11a	5825.00	5850.00	68.05	68.01	18
802.11n HT-20	5825.00	5850.00	68.14	68.11	17
802.11ax HE-20	5825.00	5850.00	67.94	67.76	15

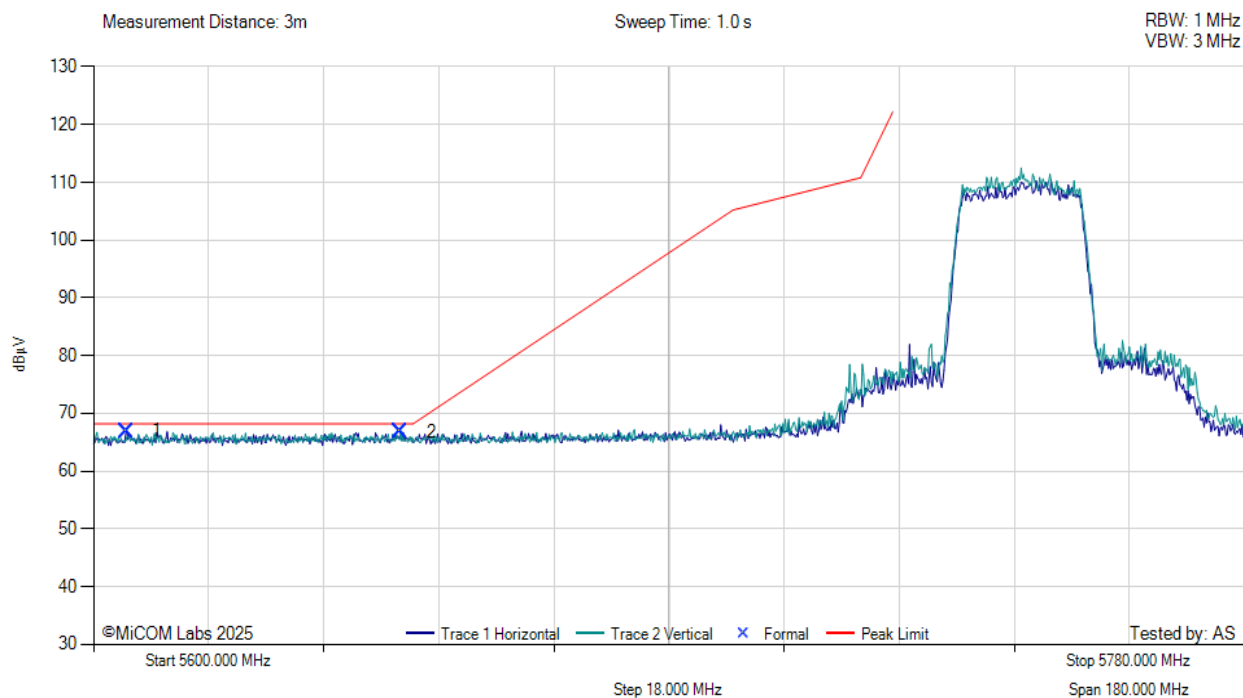
Equipment Configuration for BE 5725 MHz

Antenna:	GW.49.A153	Variant:	802.11a
Antenna Gain (dBi):	3.8	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5745.0	Data Rate (Mb/s):	6
Power Setting:	18	Tested By:	AS

Test Measurement Results



BE 5725 MHz



5600.00 - 5780.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5605.22	29.19	3.15	34.55	66.90	MaxP	Horizontal	150	150	68.2	-1.3	Pass
2	5648.06	29.12	3.16	34.59	66.87	MaxP	Vertical	150	179	68.2	-1.4	Pass

Test Notes: 802.11a 5745MHz GW.49.A.153 PS=18 Ch 149

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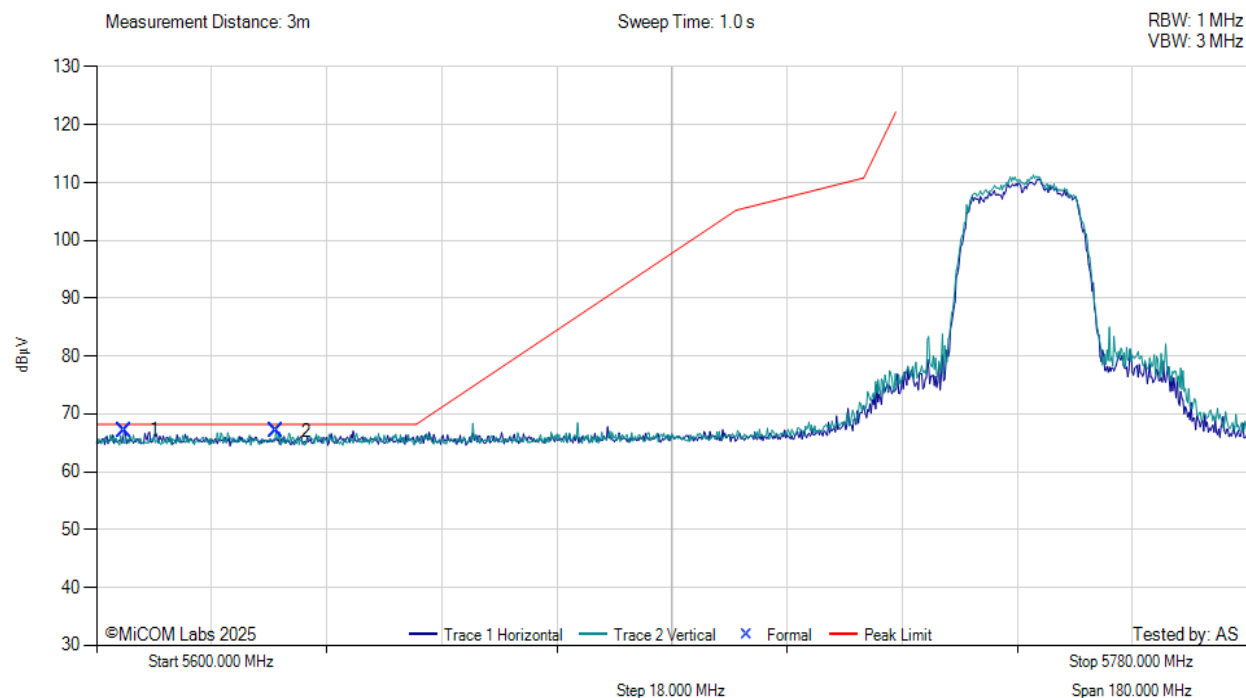
Equipment Configuration for BE 5725 MHz

Antenna:	GW.49.A153	Variant:	802.11n HT-20
Antenna Gain (dBi):	3.8	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5745.0	Data Rate:	MCS0
Power Setting:	18	Tested By:	AS

Test Measurement Results



BE 5725 MHz



5600.00 - 5780.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5604.32	29.45	3.14	34.55	67.14	MaxP	Horizontal	199	270	68.2	-1.1	Pass
2	5628.08	29.30	3.14	34.57	67.01	MaxP	Vertical	199	269	68.2	-1.2	Pass

Test Notes: 802.11n HT-20 5745MHz GW.49.A.153 PS=18 Ch 149

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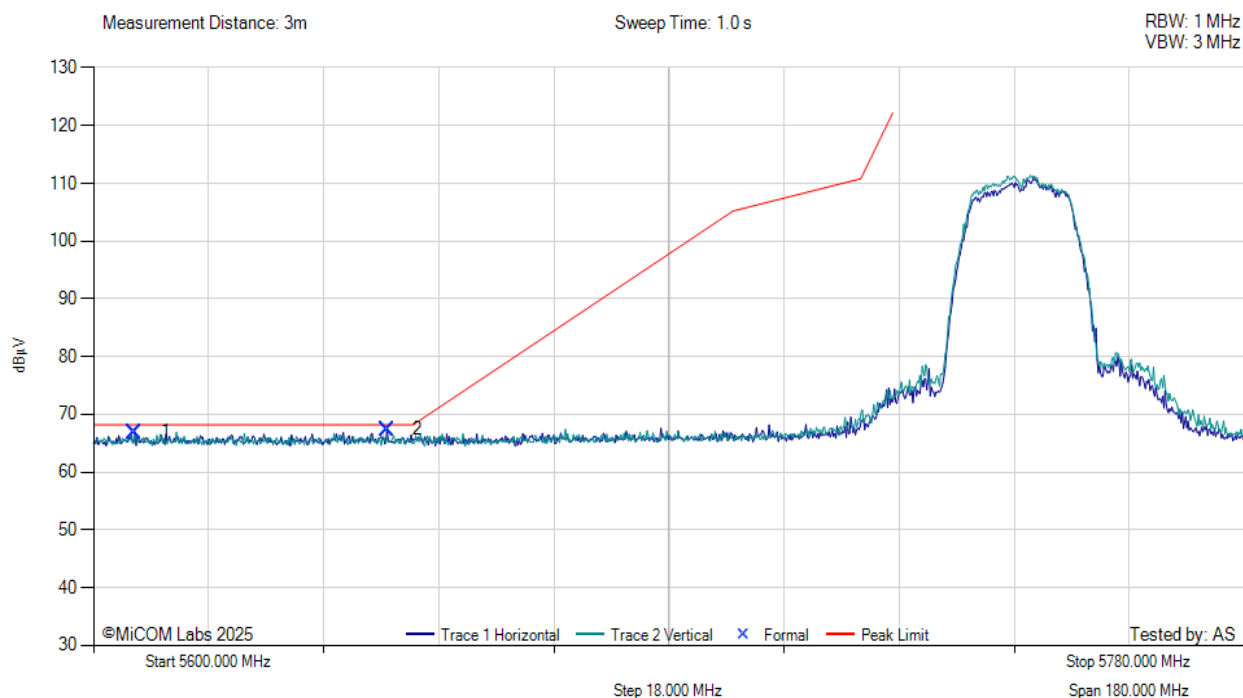
Equipment Configuration for BE 5725 MHz

Antenna:	GW.49.A153	Variant:	802.11ax HE-20
Antenna Gain (dBi):	3.8	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5745.0	Data Rate:	MCS0
Power Setting:	18	Tested By:	AS

Test Measurement Results



BE 5725 MHz



5600.00 - 5780.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5606.48	29.26	3.16	34.55	66.97	MaxP	Vertical	199	239	68.2	-1.3	Pass
2	5645.90	29.59	3.19	34.59	67.36	MaxP	Horizontal	149	60	68.2	-0.9	Pass

Test Notes: 802.11 a 5745MHz GW.49.A.153 PS=18 Ch 149

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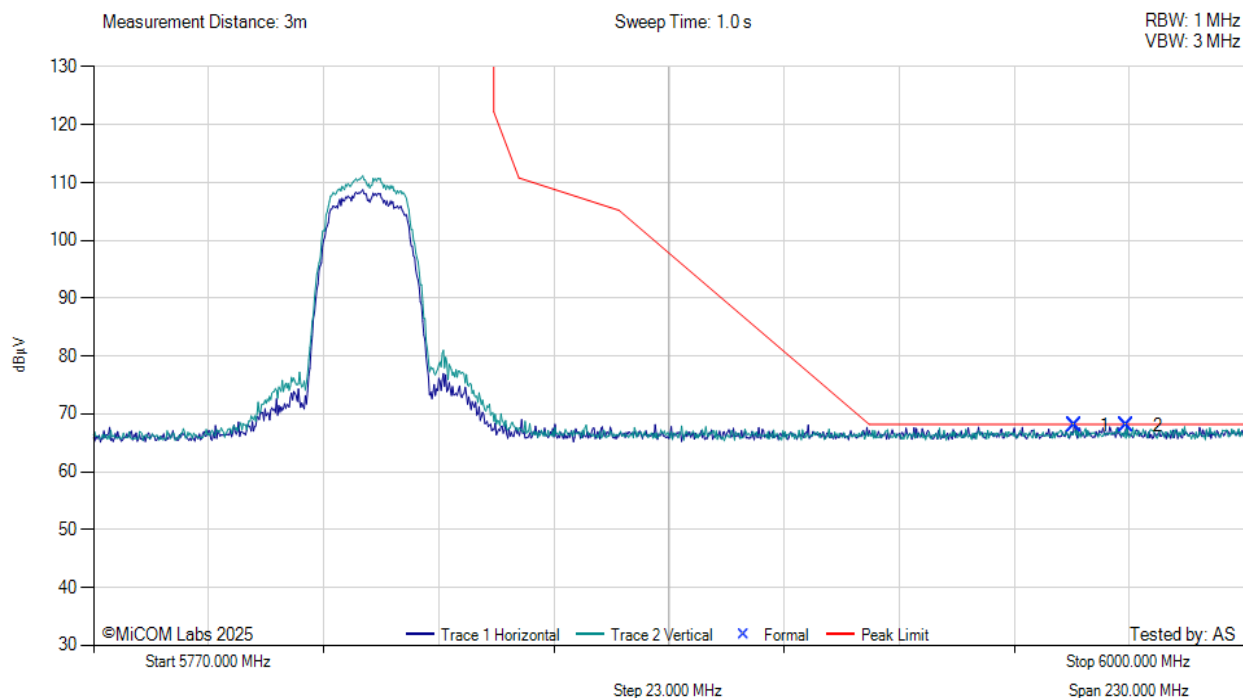
Equipment Configuration for BE 5850 MHZ

Antenna:	GW.49.A153	Variant:	802.11a
Antenna Gain (dBi):	3.8	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5825.0	Data Rate (Mb/s):	6
Power Setting:	18	Tested By:	AS

Test Measurement Results



BE 5850 MHz



5770.00 - 6000.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5965.96	29.60	3.23	35.18	68.01	MaxP	Horizontal	199	120	68.2	-0.2	Pass
2	5976.54	29.62	3.24	35.20	68.05	MaxP	Vertical	199	209	68.2	-0.2	Pass

Test Notes: 802.11a 5825MHz GW.49.A.153 PS=18 Ch 165

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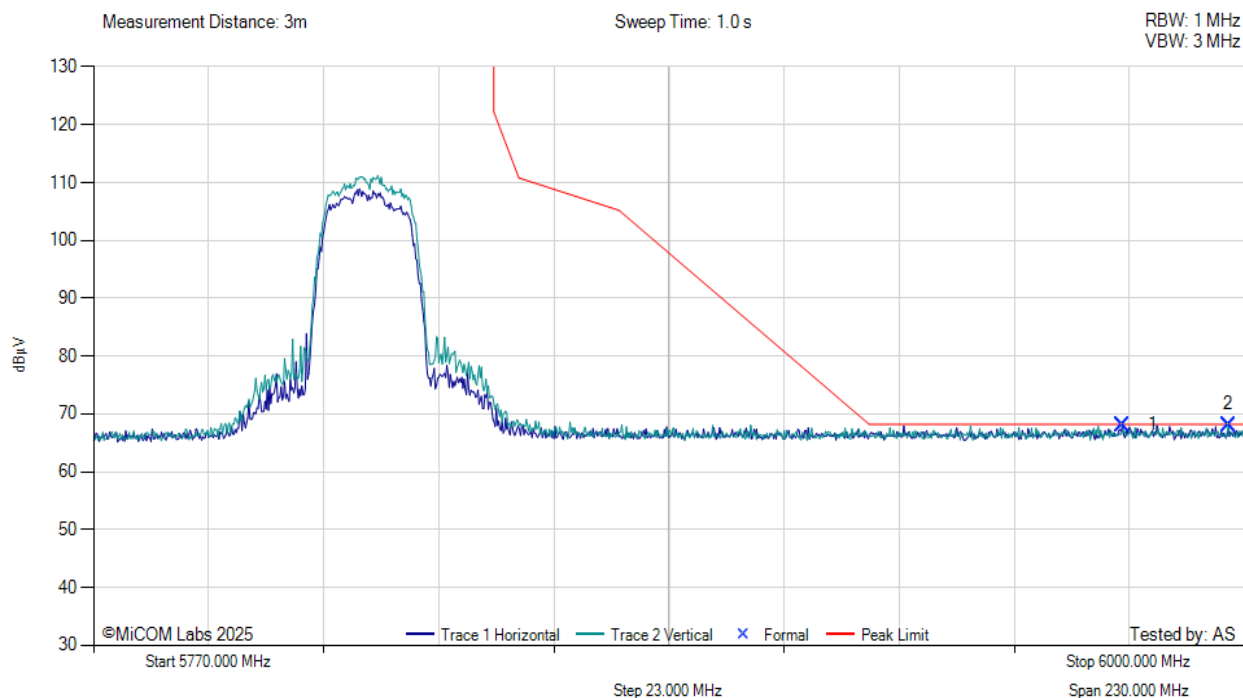
Equipment Configuration for BE 5850 MHZ

Antenna:	GW.49.A153	Variant:	802.11n HT-20
Antenna Gain (dBi):	3.8	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5825.0	Data Rate:	MCS0
Power Setting:	17	Tested By:	AS

Test Measurement Results



BE 5850 MHz



5770.00 - 6000.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5975.62	29.68	3.24	35.20	68.11	MaxP	Horizontal	199	180	68.2	-0.1	Pass
2	5996.78	29.70	3.20	35.24	68.14	MaxP	Vertical	149	60	68.2	-0.1	Pass

Test Notes: 802.11n HT-20 5825MHz GW.49.A.153 PS=17 Ch 165

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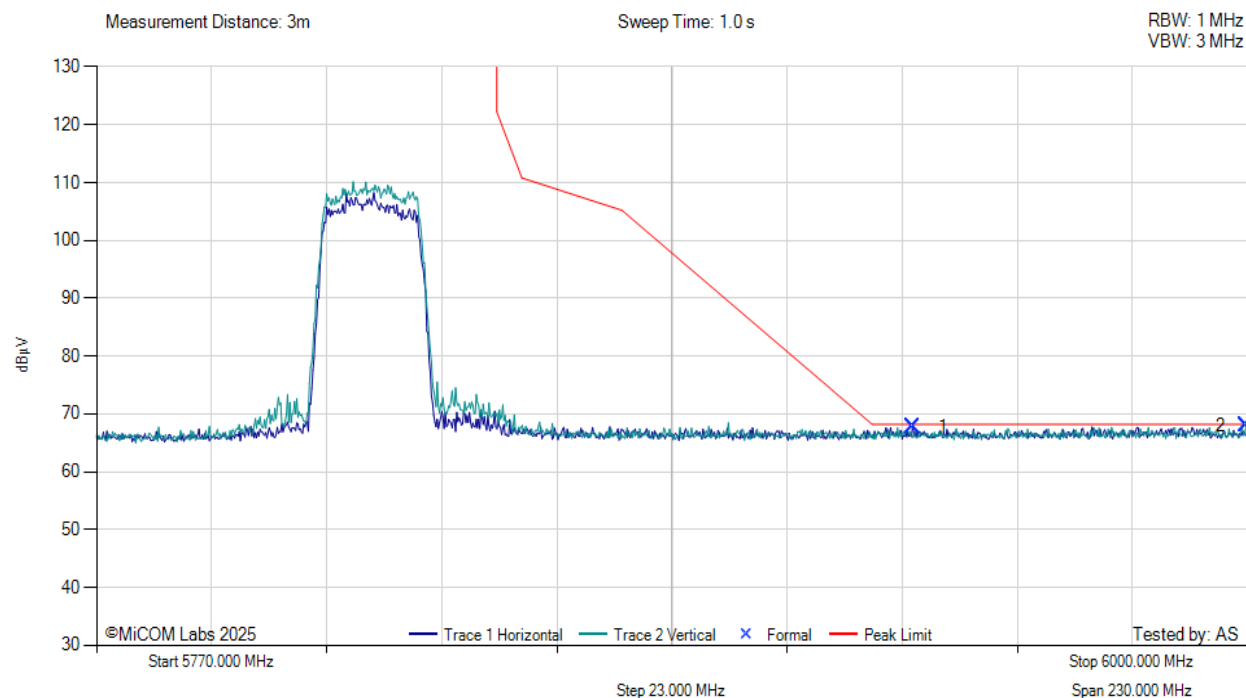
Equipment Configuration for BE 5850 MHz

Antenna:	GW.49.A153	Variant:	802.11ax HE-20
Antenna Gain (dBi):	3.8	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5825.0	Data Rate:	MCS0
Power Setting:	15	Tested By:	AS

Test Measurement Results



BE 5850 MHz



5770.00 - 6000.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5933.07	29.34	3.31	35.11	67.76	MaxP	Horizontal	199	210	68.2	-0.5	Pass
2	5999.77	29.48	3.21	35.25	67.94	MaxP	Vertical	199	0	68.2	-0.3	Pass

Test Notes: 802.11ax HE-20 5825MHz GW.49.A.153 PS=15 Ch 165

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