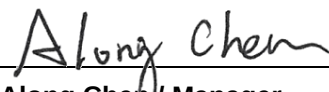


FCC C2PC Test Report

FCC ID : 2AVVV-MW09
Equipment : Outdoor Wireless Access Point
Model No. : MW09
Brand Name : meter
Applicant : Meter, Inc
Address : 548 Market St San Francisco CA 94104 USA
Standard : 47 CFR FCC Part 15.247
Received Date : Feb. 09, 2026
Tested Date : Feb. 14 ~ Mar. 20, 2026

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:


Along Chen / Manager

Approved by:

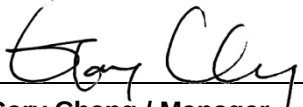

Gary Chang / Manager

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Appendix C. Unwanted Emissions into Restricted Frequency Bands		

Release Record

Report No.	Version	Description	Issued Date
FR4N0501-01AC	Rev. 01	Initial issue	Apr. 10, 2026

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.247(d) 15.209	Unwanted Emissions	[dBuV/m at 3m]: 2390.00MHz 52.98 (Margin -1.02dB) - AV	Pass
15.247(b)(3)	Conducted Output Power	<i>Non-beamforming mode</i> Max Power [dBm]: 22.56 <i>Beamforming mode</i> Max Power [dBm]: 19.48	Pass
15.247(a)(2)	6dB Bandwidth	Meet the requirement of limit	Pass
15.247(e)	Power Spectral Density	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

This is a Class II Permissive Change report (C2PC).

The modification is adding operation mode P to MP for Antenna listed in section 1.1.2

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS
2400-2483.5	b	2412-2462	1-11 [11]	2	1-11 Mbps
2400-2483.5	g	2412-2462	1-11 [11]	2	6-54 Mbps
2400-2483.5	n (HT20)	2412-2462	1-11 [11]	2	MCS 0-15
2400-2483.5	n (HT40)	2422-2452	3-9 [7]	2	MCS 0-15
2400-2483.5	ax (HE20)	2412-2462	1-11 [11]	2	MCS 0-11
2400-2483.5	ax (HE40)	2422-2452	3-9 [7]	2	MCS 0-11
Note 1: RF output power specifies that Maximum Conducted (Average) Output Power.					
Note 2: DBPSK, DQPSK, CCK modulation					
BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.					

1.1.2 Antenna Details

Brand	Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)				
				2400~2483.5	5150~5250	5250~5350	5470~5725	5725~5850
AccelTex	ATS-OP-2 45-13-6NP -36	ATS-195	RPSMA Plug	13	13	13	13	13

1.1.3 Configuration of Equipment under Test (EUT)

Power Supply Type	54Vdc from PoE	
Beamforming	☒ Support	☐ Not support
RU Configuration	☒ Full RU	☐ Partial RU

1.1.4 Accessories

Accessories		
No.	Equipment	Description
1	AC adapter	Brand: EnGenius Model: EPA5006GR I/P: 100-240Vac, 50-60Hz, 0.8A O/P: 54Vdc, 0.6A Power Line: 0.5m non-shielded without core
2	Ground Cable	1.75m non-shielded without core

1.1.5 Channel List

Frequency band (MHz)		2400~2483.5	
802.11 b / g / n HT20 / ax HE20		802.11n HT40 / ax HE40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	2412	3	2422
2	2417	4	2427
3	2422	5	2432
4	2427	6	2437
5	2432	7	2442
6	2437	8	2447
7	2442	9	2452
8	2447	---	---
9	2452	---	---
10	2457	---	---
11	2462	---	---

1.1.6 Test Tool and Duty Cycle

Test Tool	QDART, V5.14.00227.1		
Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor (dB)
	11b	60.76%	2.16
	11g	92.23%	0.35
	ax HE20	96.36%	0.16
	ax HE40	94.83%	0.23

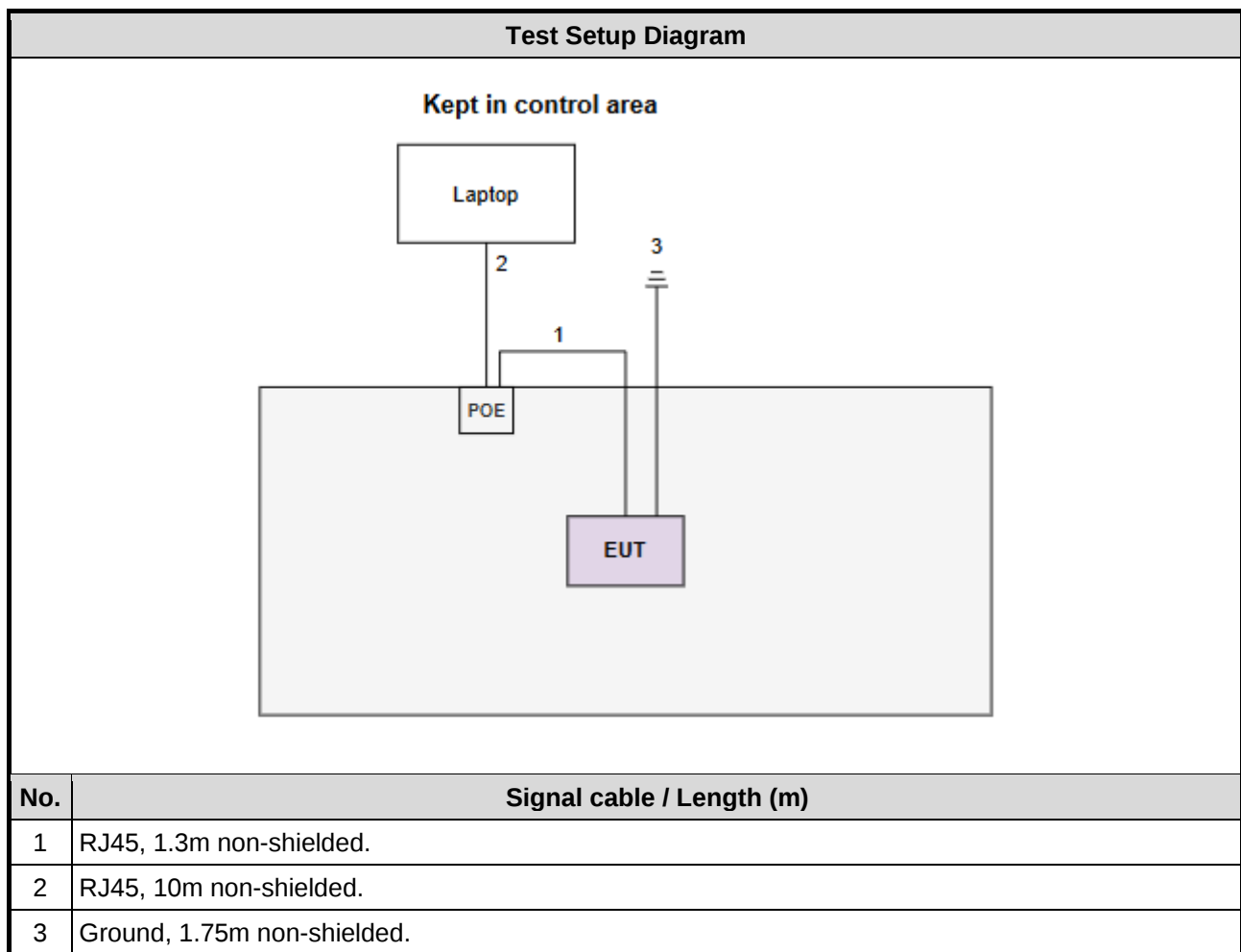
1.1.7 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)	Power Index
11b	2417	17.5
11b	2457	17.5
11g	2417	19.5
11g	2452	19
11g	2457	18
ax HE20	2417	19.5
ax HE20	2422	20
ax HE20	2442	18
ax HE20	2447	18
ax HE20	2452	18
ax HE20	2457	17.5
ax HE40	2427	15.5
ax HE40	2442	15
ax HE40	2447	14

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Laptop	DELL	Vostro 5410	DoC	---

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	Radiated Emission				
Test Site	966 chamber3 / (03CH03-WS)				
Tested Date	Feb. 14 ~ Mar. 07, 2026				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 11, 2025	Mar. 10, 2026
Spectrum Analyzer	R&S	FSV40	101499	Mar. 27, 2025	Mar. 26, 2026
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 17, 2025	Nov. 16, 2026
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	Jul. 04, 2025	Jul. 03, 2026
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Jan. 23, 2026	Jan. 22, 2027
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 28, 2025	Nov. 27, 2026
Preamplifier	EMC	EMC02325	980187	Jun. 24, 2025	Jun. 23, 2026
Preamplifier	EMC	EMC118A45SE	980897	Aug. 08, 2025	Aug. 07, 2026
Preamplifier	EMC	EMC184045SE	980903	Aug. 08, 2025	Aug. 07, 2026
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 01, 2025	Sep. 30, 2026
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-001	Sep. 19, 2025	Sep. 18, 2026
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Sep. 19, 2025	Sep. 18, 2026
LF cable-13M	EMC	EMC8D-NM-NM-13000	131104	Sep. 19, 2025	Sep. 18, 2026
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Sep. 19, 2025	Sep. 18, 2026
RF cable-8M	EMC	EMC104-SM-SM-8000	181107	Sep. 19, 2025	Sep. 18, 2026
RF cable-1M	HUBER+SUHNER	SUCOFLEX104	MY22624/4	Sep. 19, 2025	Sep. 18, 2026
Attenuator	Pasternack	PE7005-10	10-3	Sep. 19, 2025	Sep. 18, 2026
HIGHPASS FILTER	WI	WHK3.1-18G-10SS	43	Sep. 19, 2025	Sep. 18, 2026
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Dec. 04 ~ Dec. 06, 2024				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101910	Apr. 18, 2024	Apr. 17, 2025
Power Meter	Anritsu	ML2495A	1241002	Nov. 26, 2024	Nov. 25, 2025
Power Sensor	Anritsu	MA2411B	1207366	Nov. 26, 2024	Nov. 25, 2025
Attenuator	Pasternack	PE7005-10	10-2	Oct. 04, 2024	Oct. 03, 2025
Measurement Software	Sporton	SENSE-15247_DTS	V5.11	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Mar. 19 ~ Mar. 20, 2026				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101910	Apr. 18, 2025	Apr. 17, 2026
Power Meter	Anritsu	ML2495A	1241002	Nov. 21, 2025	Nov. 20, 2026
Power Sensor	Anritsu	MA2411B	1207366	Nov. 21, 2025	Nov. 20, 2026
Attenuator	Pasternack	PE7005-10	10-2	Oct. 03, 2025	Oct. 02, 2026
Measurement Software	Sporton	SENSE-15247_DTS	V5.11	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

47 CFR FCC Part 15.247
ANSI C63.10-2020
ANSI C63.4-2014 + C63.4a-2017

1.6 Reference Guidance

FCC KDB 558074 D01 15.247 Meas Guidance v05r02
FCC KDB 662911 D01 Multiple Transmitter Output v02r01

1.7 Deviation from Test Standard and Measurement Procedure

None

1.8 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ($k=2$)).

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	± 34.130 Hz
Conducted power	± 0.808 dB
Power density	± 0.583 dB
Conducted emission	± 2.715 dB
AC conducted emission	± 2.92 dB
Unwanted Emission ≤ 1 GHz	± 3.96 dB
Unwanted Emission > 1 GHz	± 4.51 dB

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	CO01-WS, TH01-WS
Address of Test Site	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)
Test Site	03CH03-WS
Address of Test Site	No.14-1, Lane 19, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

- FCC Designation No.: TW0009
- FCC site registration No.: 207696
- ISSED#: 10807C
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Non-beamforming mode				
Unwanted Emissions ≤ 1GHz	11g	2437	6 Mbps	---
Conducted Output Power	11b	2417 / 2457	1 Mbps	---
	11g	2417 / 2452 / 2457	6 Mbps	
	ax HE20	2417 / 2422 / 2442 2447 / 2452 / 2457	MCS 0	
	ax HE40	2422/ 2427 / 2442 2447	MCS 0	
Unwanted Emissions >1GHz	11b	2417 / 2457	1 Mbps	---
	11g	2417 / 2452 / 2457	6 Mbps	
	ax HE20	2417 / 2422 / 2442 2447 / 2452 / 2457	MCS 0	
	ax HE40	2422 / 2427 / 2442 2447	MCS 0	
6dB bandwidth	11b 11g ax HE20 ax HE40	2412 / 2437 / 2462 2412 / 2437 / 2462 2412 / 2437 / 2462 2422 / 2437 / 2452	1 Mbps 6 Mbps MCS 0 MCS 0	---
Beamforming mode				
Conducted Output Power	ax HE20	2417 / 2422 / 2442 2447 / 2452 / 2457	MCS 0	---
	ax HE40	2427 / 2442 / 2452	MCS 0	
Note: L/M/H channels are evaluated in Report No.: FR4N0501AC.				

3 Transmitter Test Results

3.1 6dB and Occupied Bandwidth

3.1.1 Limit of 6dB Bandwidth

The minimum 6dB bandwidth shall be at least 500 kHz.

3.1.2 Test Procedures

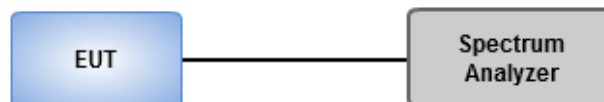
6dB Bandwidth

1. Set resolution bandwidth (RBW) = 1% ~ 5 % of OBW, Video bandwidth = 3 x RBW
2. Detector = Peak, Trace mode = max hold.
3. Sweep = No faster than coupled (auto) time, Allow the trace to stabilize.
4. Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value

Occupied Bandwidth

1. Set resolution bandwidth (RBW) = 1% ~ 5 % of OBW, Video bandwidth = 3 x RBW
2. Detector = Sample, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Use the OBW measurement function of spectrum analyzer to measure the occupied bandwidth.

3.1.3 Test Setup



3.1.4 Test Results

Ambient Condition	22-23°C / 65-66%	Tested By	Roger Lu
-------------------	------------------	-----------	----------

Refer to Appendix A.

3.2 Conducted Output Power

3.2.1 Limit of Conducted Output Power

Conducted power shall not exceed 1Watt.

Antenna gain $\leq 6\text{dBi}$, no any corresponding reduction is in output power limit.

Antenna gain $> 6\text{dBi}$

Non Fixed, point to point operations.

The conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dB

Fixed, point to point operations

Systems operating in the 2400–2483.5 MHz band that are used exclusively for fixed, point-to-point Operations, maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

3.2.2 Test Procedures

A broadband RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.

3.2.3 Test Setup



3.2.4 Test Results

Ambient Condition	22-23°C / 65-66%	Tested By	Roger Lu
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Refer to Appendix B.

3.3 Unwanted Emissions into Restricted Frequency Bands

3.3.1 Limit of Unwanted Emissions into Restricted Frequency Bands

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1:
Quasi-Peak value is measured for frequency below 1GHz except for 9~90 kHz, 110~490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

3.3.2 Test Procedures

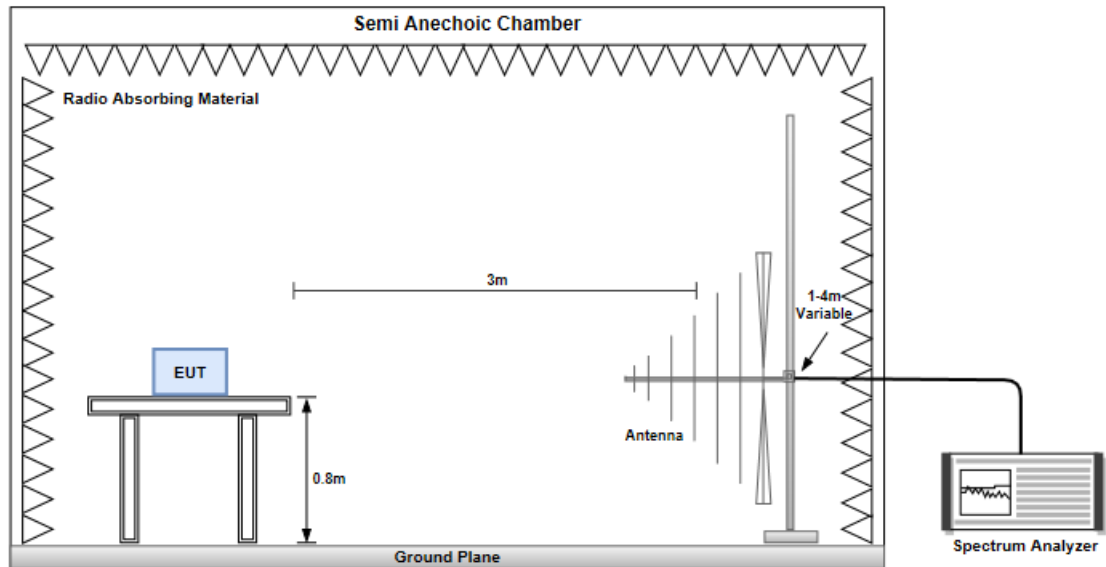
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

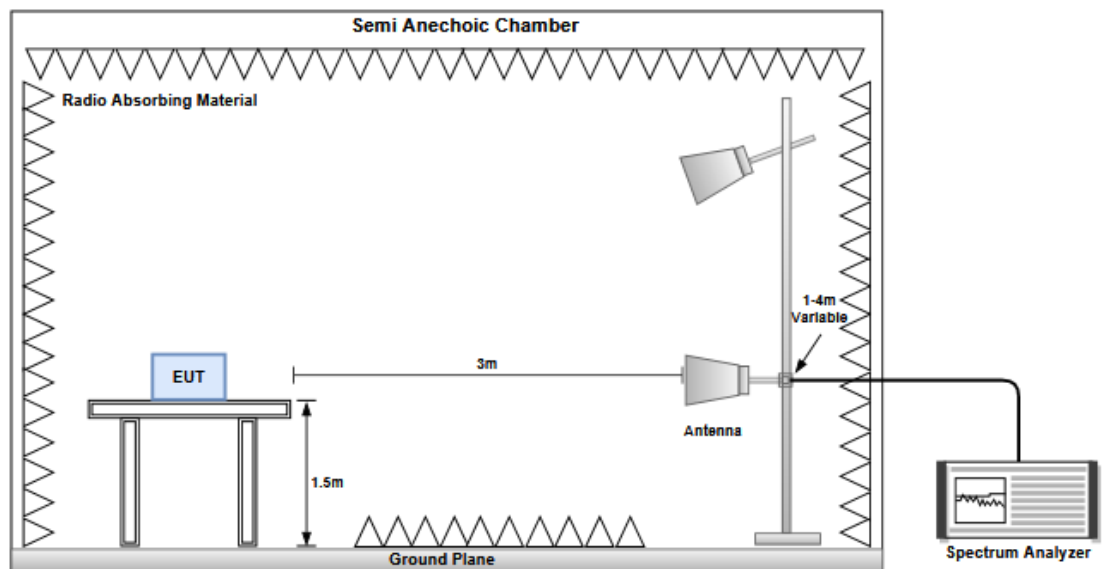
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

3.3.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



3.3.4 Test Results

Refer to Appendix C.

4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <https://www.icertifi.com.tw>.

Linkou

Tel: 886-2-2601-1640

No.30-2, Ding Fwu Tsuen, Lin Kou
District, New Taipei City, Taiwan
(R.O.C.)

Kwei Shan

Tel: 886-3-271-8666

No.3-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)
No.2-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640

No.14-1, Lane 19, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

Zhonghe

Tel: 886-2-2222-0288

1F, No. 6, Jiankang Road, Zhonghe
District, New Taipei City 235045,
Taiwan (R.O.C.)

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666

Fax: 886-3-318-0345

Email: ICC_Service@icertifi.com.tw

==END==

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	8.075M	12.994M	13M0G1D	8.075M	12.925M
802.11g_Nss1,(6Mbps)_2TX	15.175M	16.256M	16M3D1D	15.1M	16.213M
802.11ax HEW20_Nss1,(MCS0)_2TX	18.025M	18.813M	18M8D1D	16.775M	18.797M
802.11ax HEW40_Nss1,(MCS0)_2TX	37.25M	37.578M	37M6D1D	32.6M	37.513M

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	8.075M	12.925M	8.075M	12.952M
2437MHz	Pass	500k	8.075M	12.94M	8.075M	12.994M
2462MHz	Pass	500k	8.075M	12.96M	8.075M	12.985M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	15.175M	16.213M	15.1M	16.251M
2437MHz	Pass	500k	15.125M	16.225M	15.125M	16.256M
2462MHz	Pass	500k	15.1M	16.213M	15.125M	16.253M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	17.675M	18.806M	17.375M	18.797M
2437MHz	Pass	500k	16.775M	18.812M	18.025M	18.799M
2462MHz	Pass	500k	17.475M	18.813M	17.625M	18.798M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	32.6M	37.513M	34.6M	37.544M
2437MHz	Pass	500k	33.2M	37.552M	36.95M	37.578M
2452MHz	Pass	500k	35.2M	37.548M	37.25M	37.565M

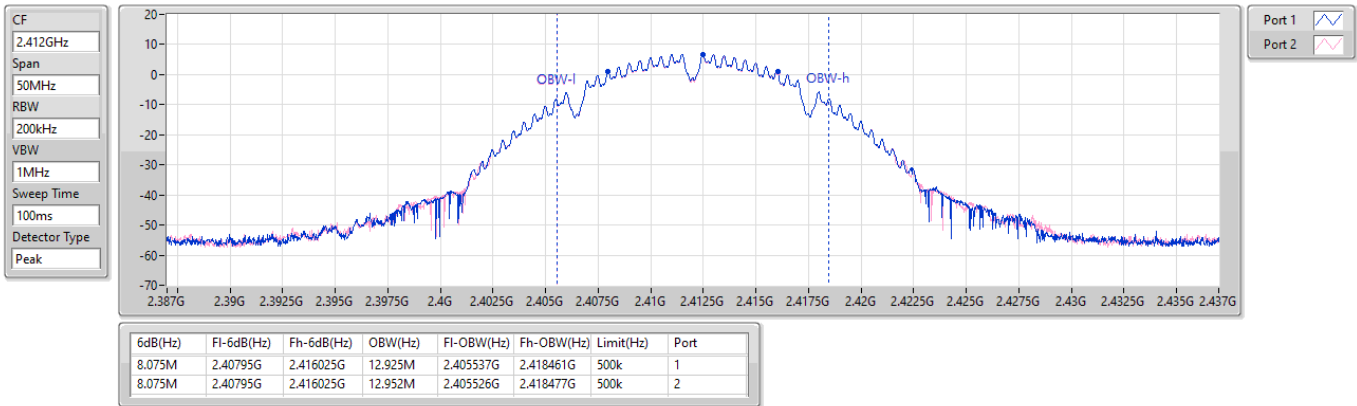
Port X-N dB = Port X 6dB down bandwidth;

Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

EBW

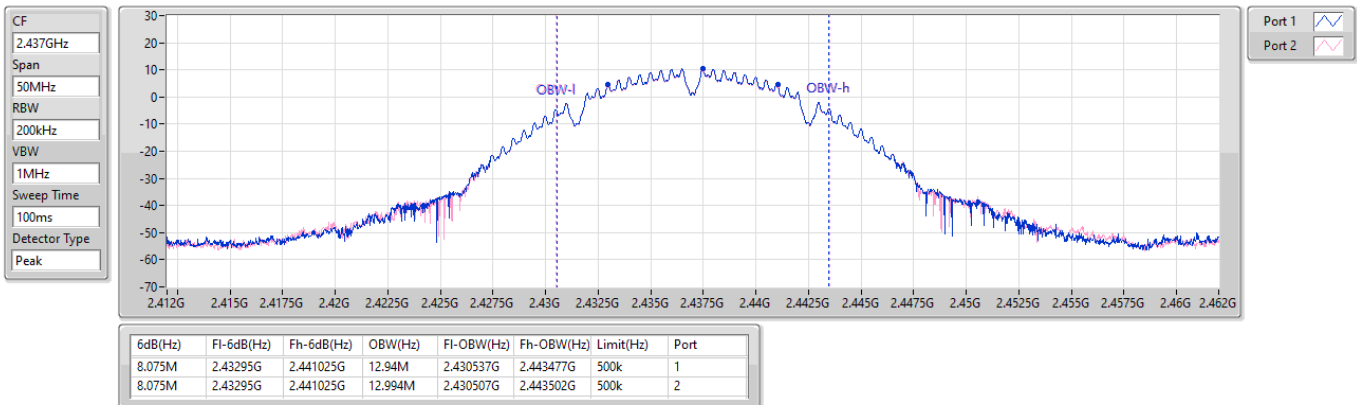
2412MHz



2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

EBW

2437MHz

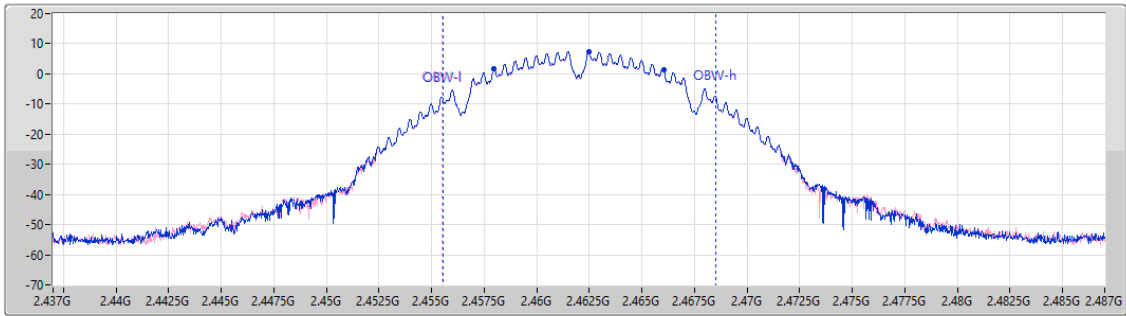


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

EBW

2462MHz

CF
2.462GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2

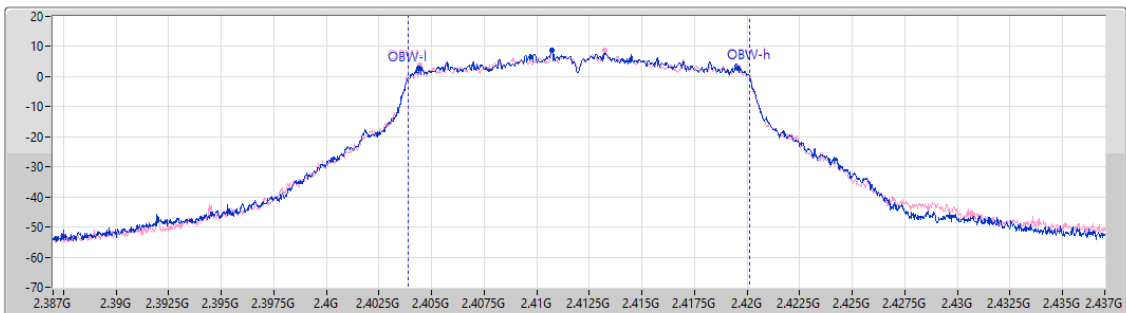
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
8.075M	2.45795G	2.466025G	12.96M	2.455526G	2.468487G	500k	1
8.075M	2.45795G	2.466025G	12.985M	2.45551G	2.468495G	500k	2

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

EBW

2412MHz

CF
2.412GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.175M	2.4044G	2.419575G	16.213M	2.403893G	2.420106G	500k	1
15.1M	2.40445G	2.41955G	16.251M	2.403866G	2.420118G	500k	2

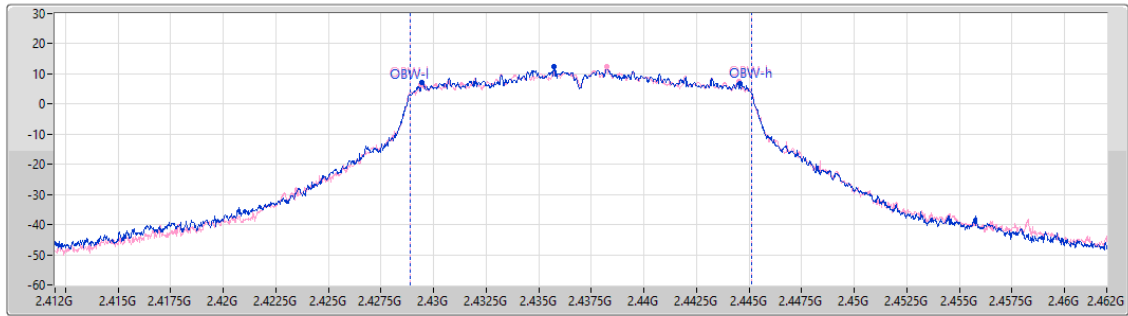


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

EBW

2437MHz

CF
2.437GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



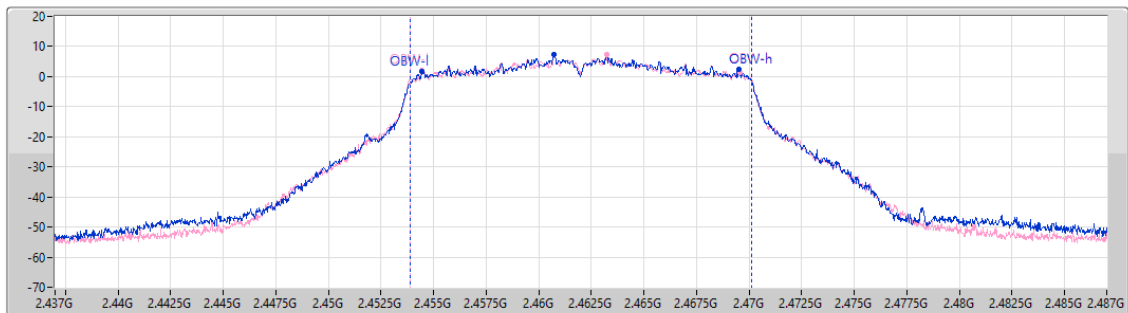
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.125M	2.429425G	2.44455G	16.225M	2.428885G	2.44511G	500k	1
15.125M	2.4294G	2.444525G	16.256M	2.428865G	2.445122G	500k	2

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

EBW

2462MHz

CF
2.462GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.1M	2.454425G	2.469525G	16.213M	2.453895G	2.470108G	500k	1
15.125M	2.454425G	2.46955G	16.253M	2.453866G	2.470119G	500k	2

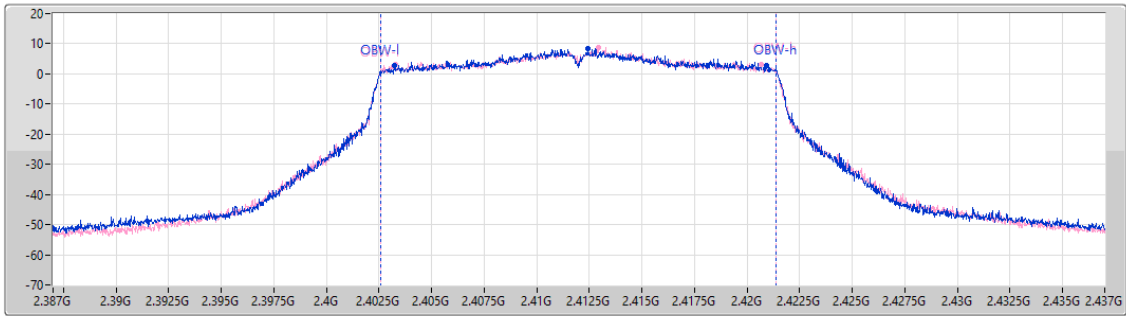


2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

EBW

2412MHz

CF
2.412GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



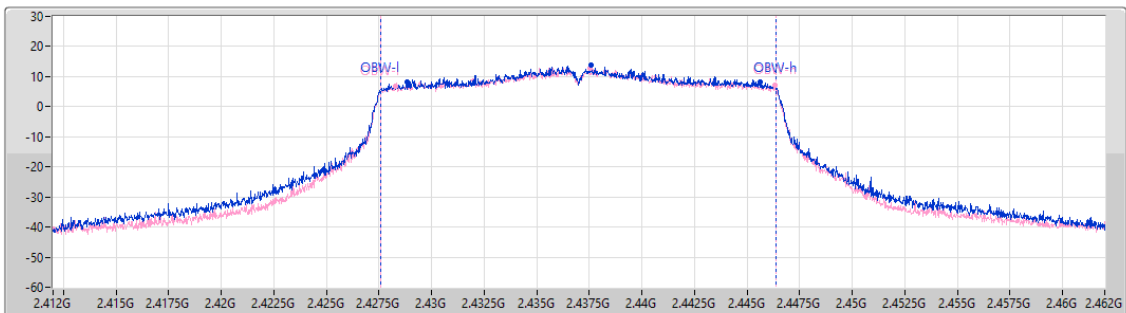
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.675M	2.403225G	2.4209G	18.806M	2.402589G	2.421395G	500k	1
17.375M	2.403275G	2.42065G	18.797M	2.402585G	2.421383G	500k	2

2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

EBW

2437MHz

CF
2.437GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.775M	2.428825G	2.4456G	18.812M	2.427584G	2.446396G	500k	1
18.025M	2.428275G	2.4463G	18.799M	2.427586G	2.446385G	500k	2

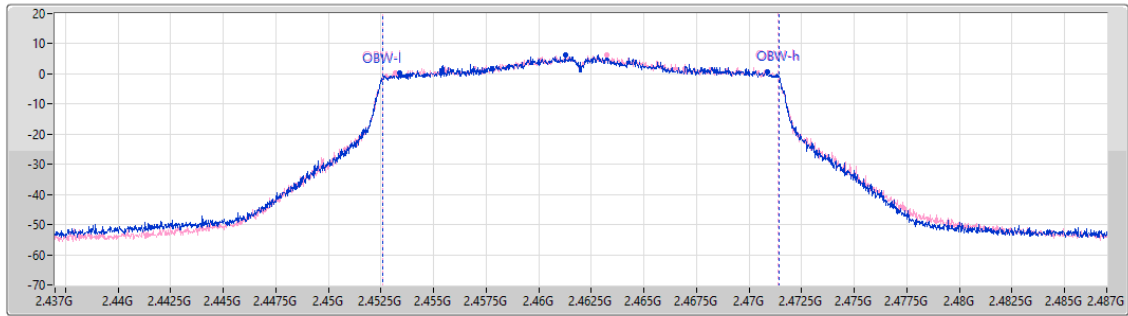


2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

EBW

2462MHz

CF
2.462GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2

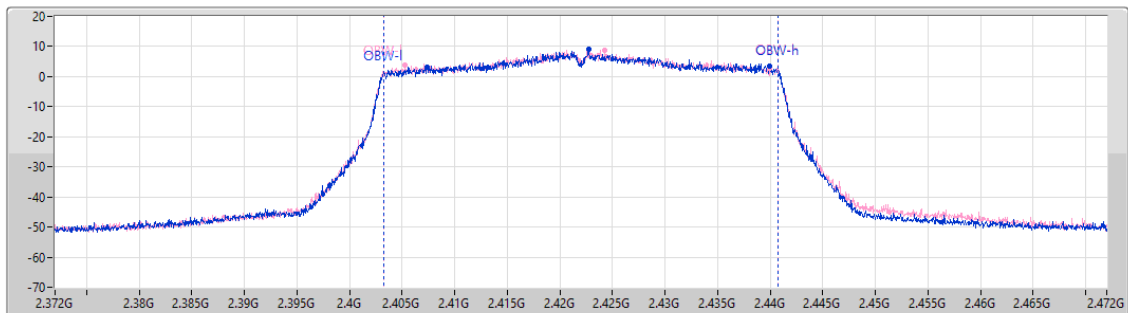
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.475M	2.453375G	2.47085G	18.813M	2.452587G	2.4714G	500k	1
17.625M	2.4532G	2.470825G	18.798M	2.452594G	2.471393G	500k	2

2.4-2.4835GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

EBW

2422MHz

CF
2.422GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



Port 1
Port 2

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
32.6M	2.40735G	2.43995G	37.513M	2.403276G	2.440788G	500k	1
34.6M	2.4053G	2.4399G	37.544M	2.403231G	2.440775G	500k	2

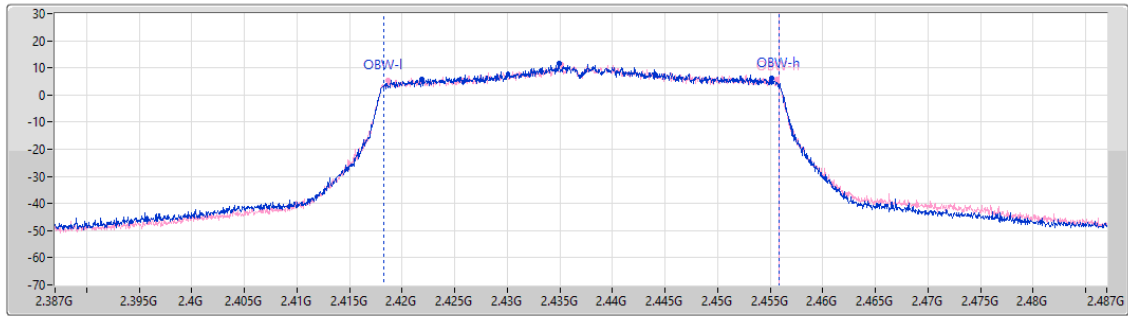


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

2437MHz

CF
2.437GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



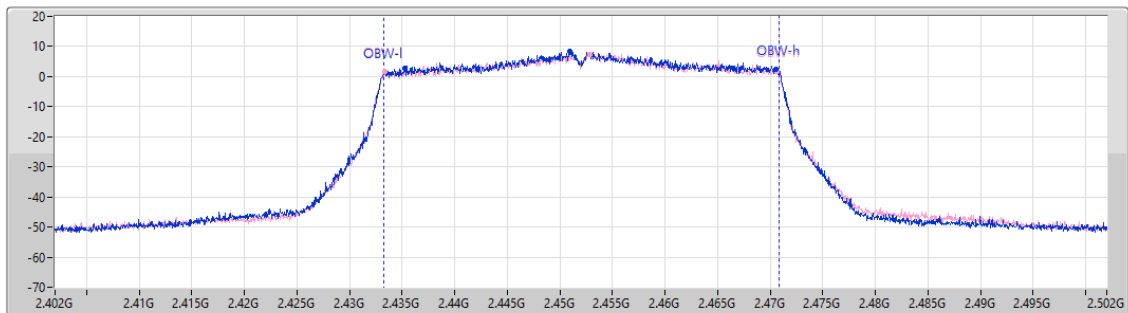
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
33.2M	2.4219G	2.4551G	37.552M	2.418259G	2.455811G	500k	1
36.95M	2.41865G	2.4556G	37.578M	2.418217G	2.455794G	500k	2

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

2452MHz

CF
2.452GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.2M	2.4353G	2.4705G	37.548M	2.433276G	2.470824G	500k	1
37.25M	2.4334G	2.47065G	37.565M	2.433233G	2.470798G	500k	2

Non-beamforming mode
Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	20.42	0.11015
802.11g_Nss1,(6Mbps)_2TX	22.56	0.18030
802.11ax HEW20_Nss1,(MCS0)_2TX	22.49	0.17742
802.11ax HEW40_Nss1,(MCS0)_2TX	18.44	0.06982

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-
2417MHz	Pass	13.00	17.42	17.35	20.40	23.00	33.40	36.00
2457MHz	Pass	13.00	17.45	17.36	20.42	23.00	33.42	36.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
2417MHz	Pass	13.00	19.26	19.75	22.52	23.00	35.52	36.00
2452MHz	Pass	13.00	19.51	19.58	22.56	23.00	35.56	36.00
2457MHz	Pass	13.00	17.81	18.06	20.95	23.00	33.95	36.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
2417MHz	Pass	13.00	18.43	19.04	21.76	23.00	34.76	36.00
2422MHz	Pass	13.00	19.17	19.77	22.49	23.00	35.49	36.00
2442MHz	Pass	13.00	17.69	17.58	20.65	23.00	33.65	36.00
2447MHz	Pass	13.00	17.62	17.57	20.61	23.00	33.61	36.00
2452MHz	Pass	13.00	17.33	17.44	20.40	23.00	33.40	36.00
2457MHz	Pass	13.00	17.04	17.25	20.16	23.00	33.16	36.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
2427MHz	Pass	13.00	15.45	15.41	18.44	23.00	31.44	36.00
2442MHz	Pass	13.00	15.39	15.38	18.40	23.00	31.40	36.00
2447MHz	Pass	13.00	14.43	14.34	17.40	23.00	30.40	36.00

DG = Directional Gain; Port X = Port X output power

Directional Gain = 13 dBi > 6 dBi, Power limit shall be reduced to $30 - (13 - 6) = 23$

**Beamforming mode****Summary**

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11n HT40-BF_Nss1,(MCS0)_2TX	19.48	0.08872
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	15.43	0.03491

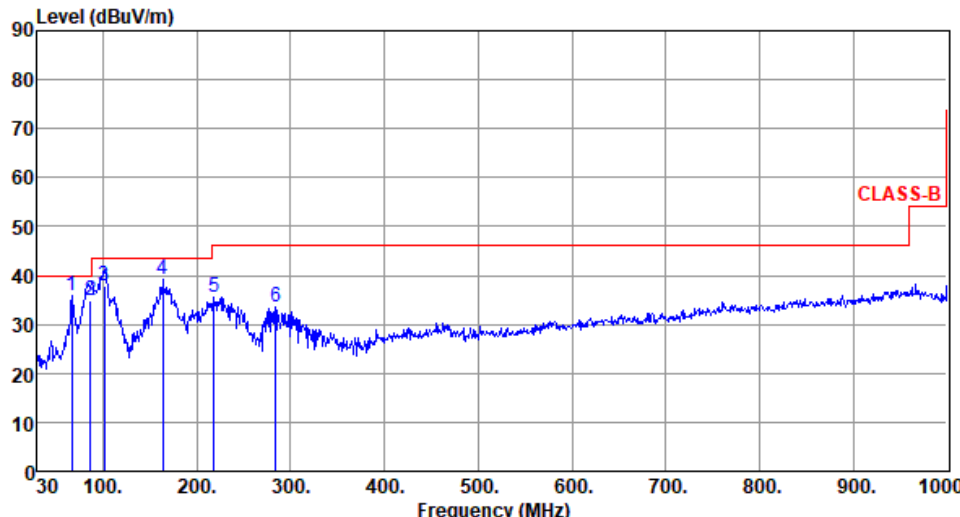
Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
2417MHz	Pass	16.01	15.42	16.03	18.75	19.99	34.76	36.00
2422MHz	Pass	16.01	16.16	16.76	19.48	19.99	35.49	36.00
2442MHz	Pass	16.01	14.68	14.57	17.64	19.99	33.65	36.00
2447MHz	Pass	16.01	14.61	14.56	17.60	19.99	33.61	36.00
2452MHz	Pass	16.01	14.32	14.43	17.39	19.99	33.40	36.00
2457MHz	Pass	16.01	14.03	14.24	17.15	19.99	33.16	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
2427MHz	Pass	16.01	12.44	12.4	15.43	19.99	31.44	36.00
2442MHz	Pass	16.01	12.38	12.37	15.39	19.99	31.40	36.00
2447MHz	Pass	16.01	11.42	11.33	14.39	19.99	30.40	36.00

DG = Directional Gain; Port X = Port X output power

Directional Gain = $13 + 10 \cdot \log(2/1) = 16.01 \text{ dBi} > 6 \text{ dBi}$, Power limit shall be reduced to $30 - (16.01 - 6) = 19.99$

Unwanted Emissions (Below 1GHz)

Modulation	11g	Test Freq. (MHz)	2437																																																																						
Polarization	Horizontal																																																																								
Test By :Akun Chung- Temperature(°C):23 Humidity(%):64																																																																									
Level (dBuV/m)  <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>66.86</td><td>35.80</td><td>40.00</td><td>-4.20</td><td>46.25</td><td>-10.45</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>87.00</td><td>34.93</td><td>40.00</td><td>-5.07</td><td>49.63</td><td>-14.70</td><td>QP</td><td>200</td><td>50</td></tr><tr><td>3</td><td>101.78</td><td>37.76</td><td>43.50</td><td>-5.74</td><td>50.73</td><td>-12.97</td><td>QP</td><td>197</td><td>21</td></tr><tr><td>4</td><td>163.86</td><td>39.13</td><td>43.50</td><td>-4.37</td><td>47.85</td><td>-8.72</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>218.18</td><td>35.56</td><td>46.00</td><td>-10.44</td><td>47.25</td><td>-11.69</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>284.14</td><td>33.68</td><td>46.00</td><td>-12.32</td><td>41.78</td><td>-8.10</td><td>Peak</td><td>---</td><td>---</td></tr></table> Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor, cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	66.86	35.80	40.00	-4.20	46.25	-10.45	Peak	---	---	2	87.00	34.93	40.00	-5.07	49.63	-14.70	QP	200	50	3	101.78	37.76	43.50	-5.74	50.73	-12.97	QP	197	21	4	163.86	39.13	43.50	-4.37	47.85	-8.72	Peak	---	---	5	218.18	35.56	46.00	-10.44	47.25	-11.69	Peak	---	---	6	284.14	33.68	46.00	-12.32	41.78	-8.10	Peak	---	---
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																
1	66.86	35.80	40.00	-4.20	46.25	-10.45	Peak	---	---																																																																
2	87.00	34.93	40.00	-5.07	49.63	-14.70	QP	200	50																																																																
3	101.78	37.76	43.50	-5.74	50.73	-12.97	QP	197	21																																																																
4	163.86	39.13	43.50	-4.37	47.85	-8.72	Peak	---	---																																																																
5	218.18	35.56	46.00	-10.44	47.25	-11.69	Peak	---	---																																																																
6	284.14	33.68	46.00	-12.32	41.78	-8.10	Peak	---	---																																																																



Modulation	11g	Test Freq. (MHz)	2437
Polarization	Vertical		
Test By :Akun Chung- Temperature(°C):23 Humidity(%):64			
Level (dBuV/m) <			



Unwanted Emission (Above 1GHz) for 11b

Modulation	11b	Test Freq. (MHz)	2417
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):23 Humidity(%):64			
Level (dBuV/m) <			



Modulation	11b	Test Freq. (MHz)	2417
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):23 Humidity(%):64			
Level (dBuV/m) <			



Modulation	11b	Test Freq. (MHz)	2457
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):23 Humidity(%):64			
Level (dBuV/m)			



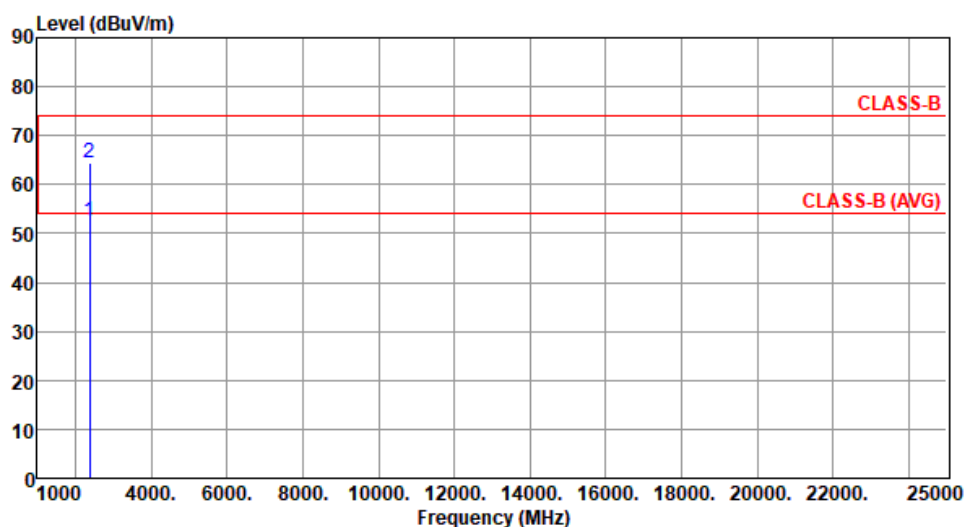
Modulation	11b	Test Freq. (MHz)	2457
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):23 Humidity(%):64			
Level (dBuV/m) <			



Unwanted Emissions (Above 1GHz) for 11g

Modulation	11g	Test Freq. (MHz)	2417
Polarization	Horizontal		

Test By :Akun Chung Temperature(°C):23 Humidity(%):64



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	52.54	54.00	-1.46	56.28	-3.74	Average	309	6
2	2390.00	64.44	74.00	-9.56	68.18	-3.74	Peak	309	6

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	11g	Test Freq. (MHz)	2417
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):23 Humidity(%):64			
Level (dBuV/m) <			



Modulation	11g	Test Freq. (MHz)	2452
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):23 Humidity(%):64			
Level (dBuV/m) <			



Modulation	11g	Test Freq. (MHz)	2452
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):23 Humidity(%):64			
Level (dBuV/m) <			



Modulation	11g	Test Freq. (MHz)	2457
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):23 Humidity(%):64			
Level (dBuV/m) </			

Modulation	11g	Test Freq. (MHz)	2457
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):23 Humidity(%):64			
Level (dBuV/m)			



Unwanted Emissions (Above 1GHz) for ax HE20

Modulation	ax HE20	Test Freq. (MHz)	2417
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):23 Humidity(%):64			
Level (dBuV/m)			



Modulation	ax HE20	Test Freq. (MHz)	2417
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):23 Humidity(%):64			
Level (dBuV/m)			



Modulation	ax HE20	Test Freq. (MHz)	2422
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):23 Humidity(%):64			
Level (dBuV/m)			



Modulation	ax HE20	Test Freq. (MHz)	2422
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):23 Humidity(%):64			
Level (dBuV/m)			



Modulation	ax HE20	Test Freq. (MHz)	2442
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):23 Humidity(%):64			
Level (dBuV/m) </			



Modulation	ax HE20	Test Freq. (MHz)	2442
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):23 Humidity(%):64			
Level (dBuV/m)			



Modulation	ax HE20	Test Freq. (MHz)	2447
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):23 Humidity(%):64			
Level (dBuV/m) </			

Modulation	ax HE20	Test Freq. (MHz)	2447
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):23 Humidity(%):64			
Level (dBuV/m) </			



Modulation	ax HE20	Test Freq. (MHz)	2452
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):23 Humidity(%):64			
Level (dBuV/m) <			

Modulation	ax HE20	Test Freq. (MHz)	2452
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):23 Humidity(%):64			
Level (dBuV/m)			



Modulation	ax HE20	Test Freq. (MHz)	2457
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):23 Humidity(%):64			
Level (dBuV/m) <			



Modulation	ax HE20	Test Freq. (MHz)	2457
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):23 Humidity(%):64			
Level (dBuV/m)			



Unwanted Emissions (Above 1GHz) for ax HE40

Modulation	ax HE40	Test Freq. (MHz)	2422
Polarization	Horizontal-Peak Value		
Test By :Roger Lu Temperature(°C):22 Humidity(%):64			
Level (dBuV/m) <			



Modulation	ax HE40	Test Freq. (MHz)	2422
Polarization	Horizontal-Average Value		
Test By :Roger Lu Temperature(°C):22 Humidity(%):64			
Level (dBuV/m)			



Modulation	ax HE40	Test Freq. (MHz)	2422																																								
Polarization	Vertical-Peak Value																																										
Test By :Roger Lu Temperature(°C):22 Humidity(%):64																																											
Level (dBuV/m) Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>2390.00</td><td>52.70</td><td>74.00</td><td>-21.30</td><td>56.47</td><td>-3.77</td><td>Peak</td><td>154</td><td>183</td></tr><tr><td>2</td><td>4844.00</td><td>45.39</td><td>74.00</td><td>-28.61</td><td>45.26</td><td>0.13</td><td>Peak</td><td>100</td><td>182</td></tr><tr><td>3</td><td>7266.00</td><td>50.87</td><td>74.00</td><td>-23.13</td><td>45.27</td><td>5.60</td><td>Peak</td><td>100</td><td>175</td></tr></tbody></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	2390.00	52.70	74.00	-21.30	56.47	-3.77	Peak	154	183	2	4844.00	45.39	74.00	-28.61	45.26	0.13	Peak	100	182	3	7266.00	50.87	74.00	-23.13	45.27	5.60	Peak	100	175
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																		
1	2390.00	52.70	74.00	-21.30	56.47	-3.77	Peak	154	183																																		
2	4844.00	45.39	74.00	-28.61	45.26	0.13	Peak	100	182																																		
3	7266.00	50.87	74.00	-23.13	45.27	5.60	Peak	100	175																																		
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor, cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).																																											



Modulation	ax HE40	Test Freq. (MHz)	2422																																								
Polarization	Vertical -Average Value																																										
Test By :Roger Lu Temperature(°C):22 Humidity(%):64																																											
Level (dBuV/m) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>2390.00</td><td>40.74</td><td>54.00</td><td>-13.26</td><td>44.51</td><td>-3.77</td><td>Average</td><td>154</td><td>183</td></tr><tr><td>2</td><td>4844.00</td><td>31.39</td><td>54.00</td><td>-22.61</td><td>31.26</td><td>0.13</td><td>Average</td><td>100</td><td>182</td></tr><tr><td>3</td><td>7266.00</td><td>36.92</td><td>54.00</td><td>-17.08</td><td>31.32</td><td>5.60</td><td>Average</td><td>100</td><td>175</td></tr></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	2390.00	40.74	54.00	-13.26	44.51	-3.77	Average	154	183	2	4844.00	31.39	54.00	-22.61	31.26	0.13	Average	100	182	3	7266.00	36.92	54.00	-17.08	31.32	5.60	Average	100	175
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																		
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Modulation	ax HE40	Test Freq. (MHz)	2427
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):23 Humidity(%):64			
Level (dBuV/m)			



Modulation	ax HE40	Test Freq. (MHz)	2427
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):23 Humidity(%):64			
Level (dBuV/m) <			



Modulation	ax HE40	Test Freq. (MHz)	2442
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):23 Humidity(%):64			
Level (dBuV/m)			

Modulation	ax HE40	Test Freq. (MHz)	2442
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):23 Humidity(%):64			
Level (dBuV/m) </			



Modulation	ax HE40	Test Freq. (MHz)	2447
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):23 Humidity(%):64			
Level (dBuV/m)			



Modulation	ax HE40	Test Freq. (MHz)	2447
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):23 Humidity(%):64			
Level (dBuV/m)			