

TEST REPORT

Applicant Name: M&M Electronics, S.A.
Address: Cocosolito, Colon Free Zone, Main Entrance Warehouse 10D and 11D, Colon Panama
Report Number: 2401A64759E-RF-00D
FCC ID: 2BLU9-QA24N1

Test Standard (s)
FCC PART 15.407

Sample Description

Product Type: ALL IN ONE PC
Model No.: QA24N1GW8256
Multiple Model(s) No.: N/A
Trade Mark: COMPAQ
Date Received: 2024-12-09
Issue Date: 2025-01-17

Test Result:	Pass▲
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▲ In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

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Approved By:

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Note: The information marked # is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	2401A64759E-RF-00D	Original Report	2025-01-17

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Frequency Range	5150-5250MHz; 5725-5850MHz
Mode	802.11a/n20/n40/ac20/ac40/ac80
Maximum Conducted Average Output Power	5150-5250MHz: 11.26dBm; 5725-5850MHz: 12.14dBm
Modulation Technique	OFDM
Antenna Specification[#]	ANT0 (Chain0): 3.52dBi ANT1 (Chain1): 3.52dBi (provided by the applicant)
Voltage Range	DC 12V from adapter
Sample serial number	2VPF-9 for Conducted and Radiated Emissions Test 2VPF-4 for RF Conducted Test (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	Model: SOY-1200500-327 Input: AC 100-240V, 50/60Hz, 1.7A, Max Output: DC 12.0V, 5.0A, 60.0W

Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A and E of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart E, section 15.203, 15.205, 15.207, 15.209 and 15.407 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices. And KDB789033 D02 General U-NII Test Procedures New Rules v02r01.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

Measurement Uncertainty

Parameter		Uncertainty
Occupied Channel Bandwidth		109.2kHz(k=2, 95% level of confidence)
RF Frequency		56.6Hz(k=2, 95% level of confidence)
RF output power, conducted		0.86dB(k=2, 95% level of confidence)
Unwanted Emission, conducted		1.60dB(k=2, 95% level of confidence)
AC Power Lines Conducted Emissions	9kHz-150kHz	3.63dB(k=2, 95% level of confidence)
	150kHz-30MHz	3.66dB(k=2, 95% level of confidence)
Radiated Emissions	9kHz - 30MHz	3.60dB(k=2, 95% level of confidence)
	30MHz~200MHz (Horizontal)	5.32dB(k=2, 95% level of confidence)
	30MHz~200MHz (Vertical)	5.43dB(k=2, 95% level of confidence)
	200MHz~1000MHz (Horizontal)	5.77dB(k=2, 95% level of confidence)
	200MHz~1000MHz (Vertical)	5.73dB(k=2, 95% level of confidence)
	1GHz - 6GHz	5.34dB(k=2, 95% level of confidence)
	6GHz - 18GHz	5.40dB(k=2, 95% level of confidence)
	18GHz - 40GHz	5.64dB(k=2, 95% level of confidence)
Temperature		±1°C
Humidity		±1%
Supply voltages		±0.4%

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West) , 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 715558, the FCC Designation No. : CN5045.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

For 5150-5250MHz Band, 7 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220
38	5190	46	5230
40	5200	48	5240
42	5210	/	/

For 802.11a/ac20 mode: channel 36, 40, 48 were tested;

For 802.11ac40 mode: channel 38, 46 were tested.

For 802.11ac80 mode: channel 42 was tested.

For 5725-5850MHz Band, 8 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	157	5785
151	5755	159	5795
153	5765	161	5805
155	5775	165	5825

For 802.11a/ac20 mode: channel 149, 157, 165 were tested;

For 802.11ac40 mode: channel 151, 159 were tested.

For 802.11ac80 mode: channel 155 was tested.

EUT Exercise Software

Exercise Software [#]	MPTool			
5150-5250 MHz Band				
Mode	Test Channels	Data rate	Power Level [#]	
			ANT 0	ANT 1
802.11a	Low	6Mbps	34	34
	Middle	6Mbps	34	34
	High	6Mbps	34	34
802.11ac-VHT20	Low	MCS0	34	34
	Middle	MCS0	34	34
	High	MCS0	34	34
802.11ac-VHT40	Low	MCS0	34	34
	High	MCS0	34	34
802.11ac-VHT80	Middle	MCS0	40	40

5725-5850 MHz Band				
Mode	Test Channels	Data rate	Power Level [#]	
			ANT 0	ANT 1
802.11a	Low	6Mbps	34	34
	Middle	6Mbps	34	34
	High	6Mbps	34	34
802.11ac-VHT20	Low	MCS0	34	34
	Middle	MCS0	34	34
	High	MCS0	34	34
802.11ac-VHT40	Low	MCS0	34	34
	High	MCS0	34	34
802.11ac-VHT80	Middle	MCS0	40	40
Note: 1. The worst-case data rates are determined to be as follows for each mode based upon investigation by measuring the average power, peak power and PSD across all data rates bandwidths, and modulations. 2. The n20/n40 mode was reduced test as identical parameter with ac20/ac40 mode. 3. The device supports SISO only.				

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

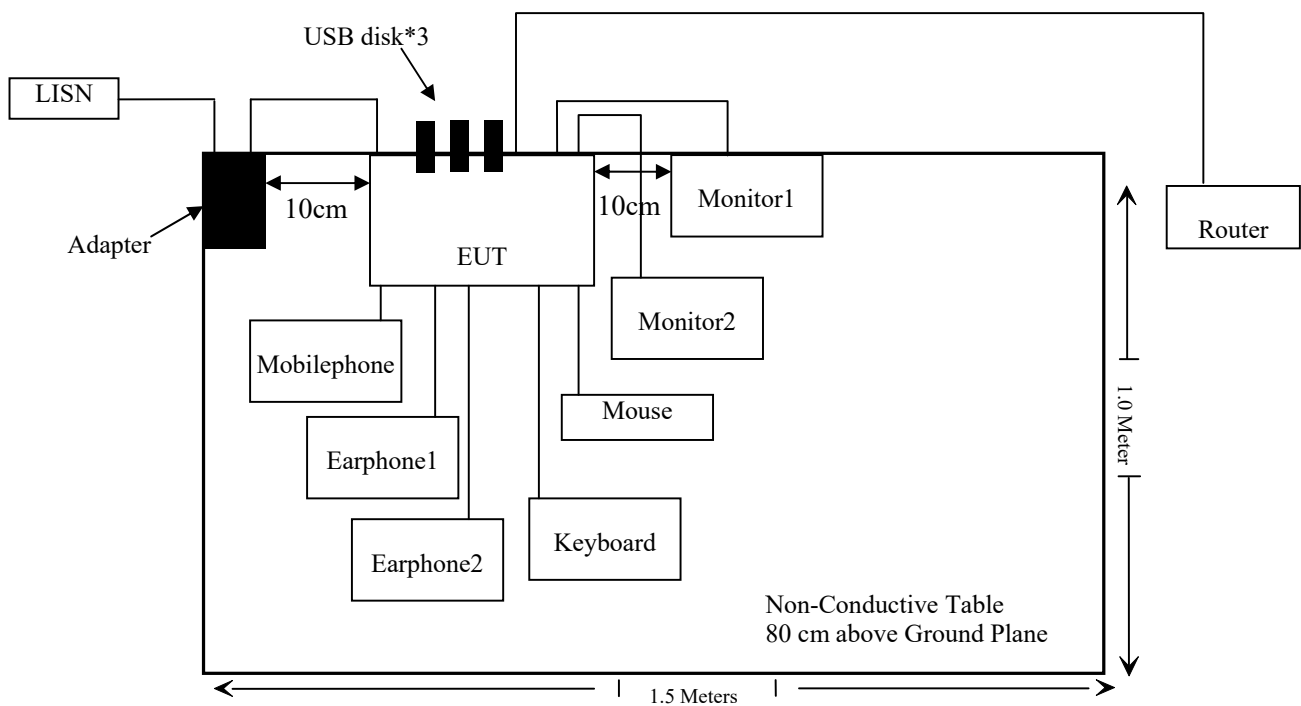
Manufacturer	Description	Model	Serial Number
OUPU	Receptacle	PDU-OP1606K	6971041358020
Redmi	Monitor1	RMMNT238NF	Unknown
Redmi	Monitor2	A22FAB-RA	Unknown
Sandisk	USB disk*3pcs	CZ73-64G	Unknown
Vivo	Earphone1	XE160	Unknown
CRDC	Earphone2	YXEJ-01Z	Unknown
TP-Link	Router	EAP225	Unknown
Infinix	MobilePhone	infinix X689D	066793311T100003

External I/O Cable

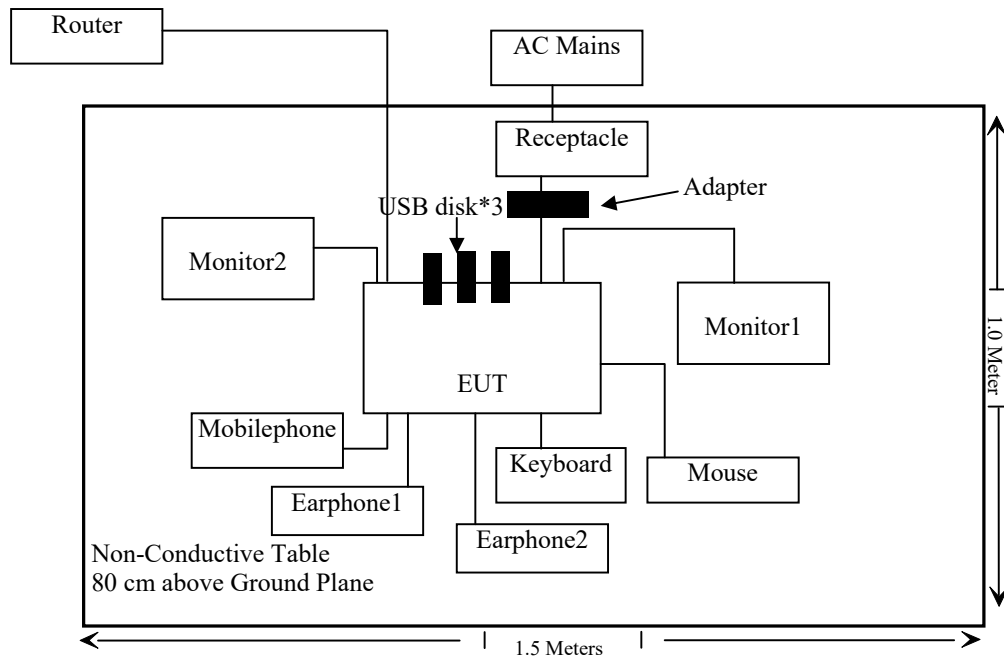
Cable Description	Length (m)	From Port	To
Unshielded Detachable AC Cable	1.5	AC Mains	Receptacle
Unshielded Detachable AC Cable	1.5	Adapter	LISN/ Receptacle
Shielded Un-detachable DC Cable	1.2	EUT	Adapter
Unshielded Un-detachable Audio Cable	1.0	EUT	Earphone
Unshielded Un-detachable USB Cable	1.5	EUT	Mouse
Unshielded Un-detachable USB Cable	1.5	EUT	Keyboard
Unshielded Detachable USB Cable	1.2	EUT	Mobile Phone
Unshielded Detachable HDMI Cable	2.0	EUT	Monitor1
Unshielded Detachable VGA Cable	2.0	EUT	Monitor2
Unshielded Detachable RJ45 Cable	10.0	EUT	Router

Block Diagram of Test Setup

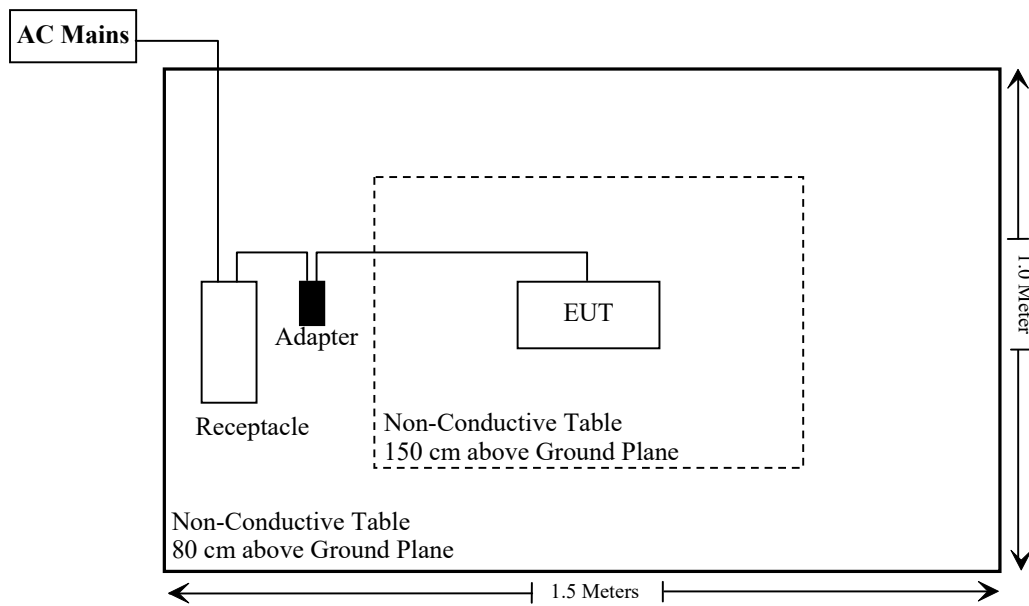
For Conducted Emissions:



For Radiated Emissions below 1GHz:



For Radiated Emissions above 1GHz:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliant
§15.407(b)(9)& §15.207(a)	Conducted Emissions	Compliant
§15.205& §15.209 &§15.407(b)	Undesirable Emission& Restricted Bands	Compliant
§15.407(a) (e)	26 dB Emission Bandwidth & 6dB Bandwidth	Compliant
§15.407(a)	Conducted Transmitter Output Power	Compliant
§15.407 (a)	Power Spectral Density	Compliant
§15.407 (h)	Transmit Power Control (TPC)	Not Applicable
§15.407 (h)	Dynamic Frequency Selection (DFS)	Not Applicable
C63.10 §11.6	Duty Cycle	/
§1.1307 (b) (3) & §2.1091	MPE-Based Exemption	Compliant

Not Applicable: The device operates only on 5150-5250MHz and 5725-5850MHz.

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2024/12/04	2025/12/03
Rohde & Schwarz	LISN	ENV216	101613	2024/12/04	2025/12/03
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2024/05/21	2025/05/20
Unknown	CE Cable	Unknown	UF A210B-1-0720-504504	2024/05/21	2025/05/20
Audix	EMI Test software	E3	191218(V9)	NCR	NCR
Radiated Emission Test					
A.H.System	Preamplifier	PAM-0118P	489	2024/11/15	2025/11/14
Rohde & Schwarz	EMI Test Receiver	ESR3	102455	2024/12/04	2025/12/03
Sonoma instrument	Pre-amplifier	310N	186238	2024/05/21	2025/05/20
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2023/07/20	2026/07/19
Unknown	Cable	XH500C	J-10M-A	2024/06/18	2025/06/17
BACL	Active Loop Antenna	1313-1A	4031911	2024/05/14	2027/05/13
Unknown	Cable	2Y194	0735	2024/12/04	2025/12/03
Unknown	Cable	PNG214	1354	2024/12/04	2025/12/03
Rohde&Schwarz	Spectrum Analyzer	FSV40	101605	2024/03/27	2025/03/26
Schwarzbeck	Horn Antenna	BBHA9120D(1201)	1143	2023/07/26	2026/07/25
Unknown	RF Cable	KMSE	0735	2024/12/06	2025/12/05
Unknown	RF Cable	UFA147	219661	2024/12/06	2025/12/05
Unknown	RF Cable	XH750A-N	J-10M	2024/12/06	2025/12/05
JD	Filter Switch Unit	DT7220FSU	DS79906	2024/09/09	2025/09/08
JD	Multiplex Switch Test Control Set	DT7220SCU	DS79903	2024/09/09	2025/09/08
A.H.System	Pre-amplifier	PAM-1840VH	190	2024/06/18	2025/06/17
Electro-Mechanics Co	Horn Antenna	3116	9510-2270	2023/09/18	2026/09/17
UTIFLEX	RF Cable	NO. 13	232308-001	2024/12/18	2025/12/17
Audix	EMI Test software	E3	191218(V9)	NCR	NCR

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
RF Conducted Test					
Rohde&Schwarz	Spectrum Analyzer	FSV40-N	102259	2024/12/04	2025/12/03
ANRITSU	Microwave peak power sensor	MA24418A	12622	2024/05/21	2025/05/20
MARCONI	10dB Attenuator	6534/3	2942	2024/06/27	2025/06/26

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

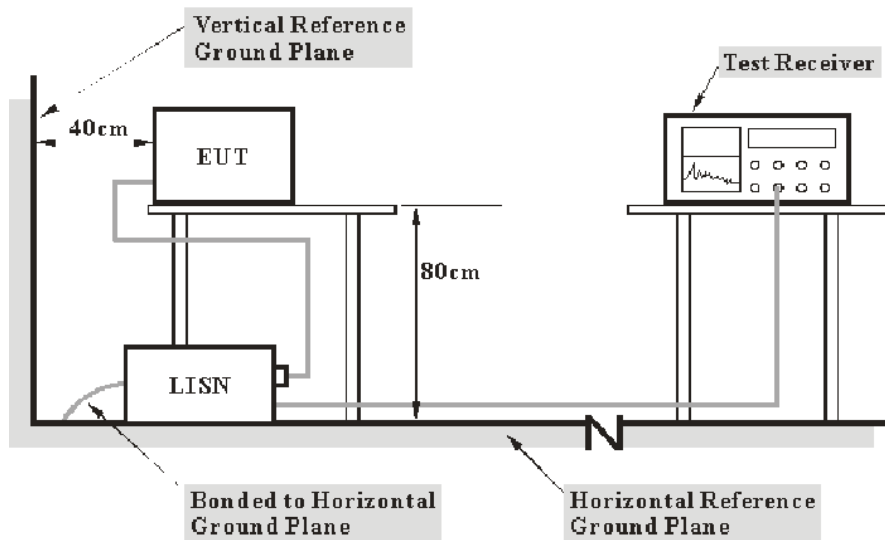
REQUIREMENTS AND TEST PROCEDURES

Conducted Emissions

Applicable Standard

FCC §15.207, §15.407(b) (6)

EUT Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter was connected to the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and Average detection mode.

Factor & Over Limit Calculation

The factor is calculated by adding LISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

$$\text{Factor} = \text{LISN VDF} + \text{Cable Loss}$$

The “**Over limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over limit of -7 dB means the emission is 7 dB below the limit. The equation for calculation is as follows:

$$\begin{aligned}\text{Over Limit} &= \text{Level} - \text{Limit} \\ \text{Level} &= \text{Read Level} + \text{Factor}\end{aligned}$$

Note: The term "cable loss" refers to the combination of a cable and a 10dB transient limiter (attenuator).

Undesirable Emission

Applicable Standard

FCC §15.407 (b); §15.209; §15.205;

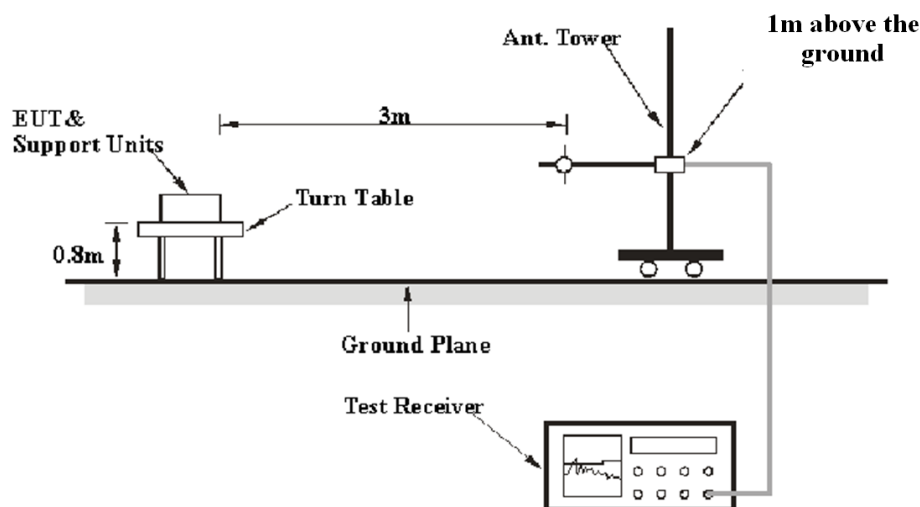
(b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

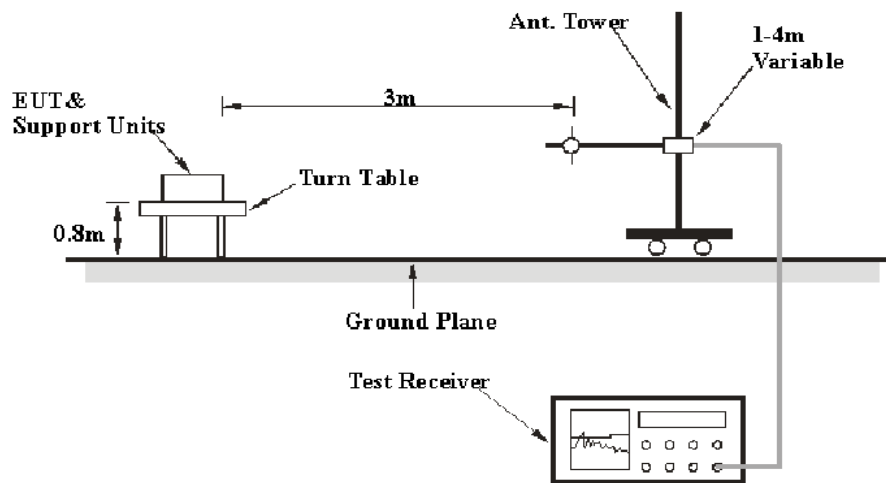
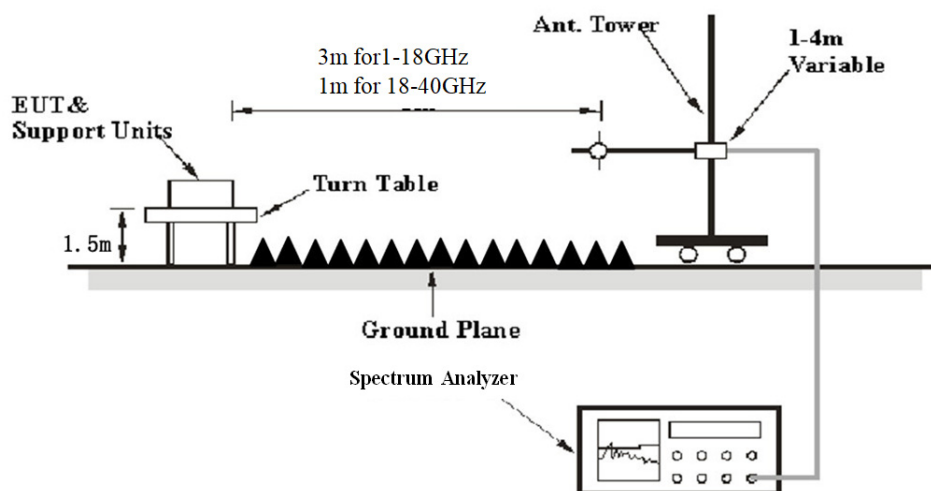
- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
 - (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

EUT Setup

9 kHz-30MHz:



30MHz-1GHz:**Above 1 GHz:**

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC 15.209 and FCC 15.407 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 40 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

9 kHz-1GHz:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
9 kHz – 150 kHz	/	/	200 Hz	QP
	300 Hz	1 kHz	/	PK
150 kHz – 30 MHz	/	/	9 kHz	QP
	10 kHz	30 kHz	/	PK
30 MHz – 1000 MHz	/	/	120 kHz	QP
	100 kHz	300 kHz	/	PK

1-40GHz:

Pre-scan

Measurement	Duty cycle	RBW	Video B/W
PK	Any	1MHz	3 MHz
AV	>98%	1MHz	5 kHz
	<98%	1MHz	≥1/Ton

Final measurement for emission identified during pre-scan

Measurement	Duty cycle	RBW	Video B/W
PK	Any	1MHz	3 MHz
AV	>98%	1MHz	10 Hz
	<98%	1MHz	≥1/Ton

Note: Ton is minimum transmission duration

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

Test Procedure

Radiated Spurious Emission

During the radiated emission test, the adapter was connected to the AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all the installation combinations.

All final data was recorded in Quasi-peak detection mode except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, average detection modes for frequency bands 9–90 kHz and 110–490 kHz, peak and average detection modes for frequencies above 1 GHz.

For 9 kHz-30MHz, the report shall list the six emissions with the smallest margin relative to the limit, for each of the three antenna orientations (parallel, perpendicular, and ground-parallel) unless the margin is greater than 20 dB.

According to ANSI C63.10-2013,9.4: For field strength measurements made at other than the distance at which the applicable limit is specified, extrapolate the measured field strength to the field strength at the distance specified by the limit using an inverse distance correction factor (20 dB/decade of distance). In some cases, a different distance correction factor may be required;

$$E_{\text{SpecLimit}} = E_{\text{Meas}} + 20 \log \left(\frac{d_{\text{Meas}}}{d_{\text{SpecLimit}}} \right)$$

where

$E_{\text{SpecLimit}}$	is the field strength of the emission at the distance specified by the limit, in dB μ V/m
E_{Meas}	is the field strength of the emission at the measurement distance, in dB μ V/m
d_{Meas}	is the measurement distance, in m
$d_{\text{SpecLimit}}$	is the distance specified by the limit, in m

So the extrapolation factor of 1m is $20 \cdot \log(1/3) = -9.5$ dB, for 18-40GHz range, the limit of 1m distance was added by 9.5dB from limit of 3m to compared with the result measurement at 1m distance.

Factor & Over Limit/Margin Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Over Limit/Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

$$\begin{aligned} \text{Over Limit} &= \text{Level} - \text{Limit}; \text{Margin} = \text{Limit} - \text{Corrected Amplitude} \\ \text{Level} / \text{Corrected Amplitude} &= \text{Read Level} + \text{Factor} \end{aligned}$$

26 dB & 6dB Emission Bandwidth

Applicable Standard

The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Test Procedure

According to KDB789033 D02 section II.C and section II.D

1. Emission Bandwidth (EBW)

- a) Set RBW = approximately 1% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

2. Minimum Emission Bandwidth for the band 5.725-5.85 GHz

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.725-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

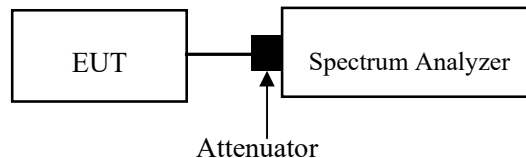
3. 99% Occupied Bandwidth:

According to ANSI C63.10-2013 Section 12.4.2&6.9.3

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.

- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (\text{OBW/RBW})]$ below the reference level. Specific guidance is given in 4.1.5.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
- h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).



Conducted Transmitter Output Power

Applicable Standard

For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

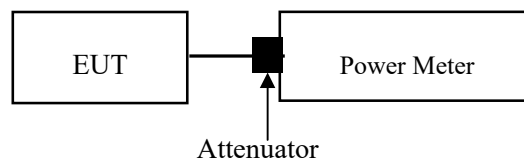
For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method PM-G should be applied

- a. Place the EUT on a bench and set it in transmitting mode.
- b. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.



Note: A short RF cable with low cable loss connected to the EUT antenna port, which was provided by client or lab, the cable loss was added with offset into test equipment, the total offset consists of attenuator and/or RF cable and/or power splitter loss

Power Spectral Density

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01

Duty cycle $\geq 98\%$

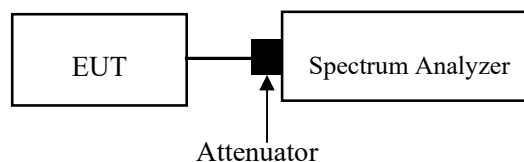
KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-1 should be applied.

Duty cycle $< 98\%$, duty cycle variations are less than $\pm 2\%$

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-2 should be applied.

Duty cycle $< 98\%$, duty cycle variations exceed $\pm 2\%$

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-3 should be applied.



Note: A short RF cable with low cable loss connected to the EUT antenna port, which was provided by client or lab, the cable loss was added with offset into test equipment, the total offset consists of attenuator and/or RF cable and/or power splitter loss

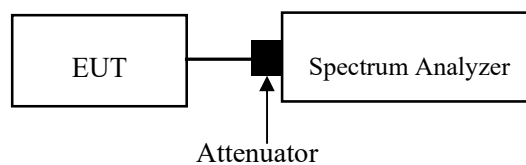
Duty Cycle

Test Procedure

According to ANSI C63.10-2013 Section 12.2

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:

- 1) Set the center frequency of the instrument to the center frequency of the transmission.
- 2) Set $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value.
- 3) Set $VBW \geq RBW$. Set detector = peak or average.
- 4) The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if $T \leq 16.7 \mu s$.)



ANTENNA REQUIREMENT

Applicable Standard

According to FCC § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

Antenna Connector Construction

The EUT has two internal antennas arrangement, which was permanently attached, the antenna gain[#] is 3.52dBi, fulfill the requirement of this section. Please refer to the EUT photos.

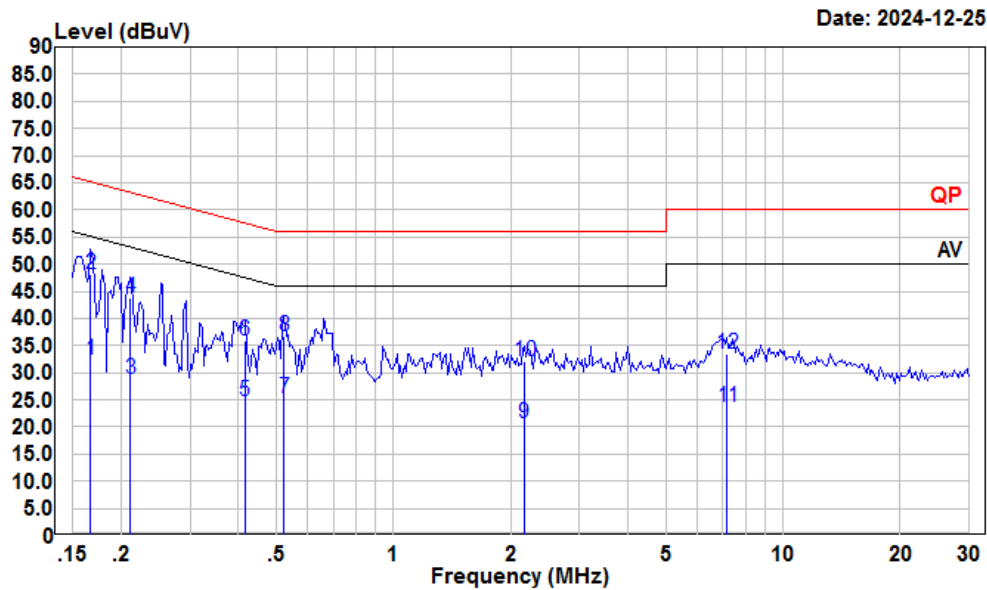
Result: Compliant

TEST DATA AND RESULTS

Conducted Emissions

Temperature (°C)	22.9	Relative Humidity (%)	45
ATM Pressure (kPa)	101.5	Test engineer	Macy.shi
Test date	2024.12.25		
EUT operation mode	Transmitting (Maximum output power mode, ANT1 802.11ac80 5775MHz)		

AC 120V 60 Hz, Line



Condition: Line

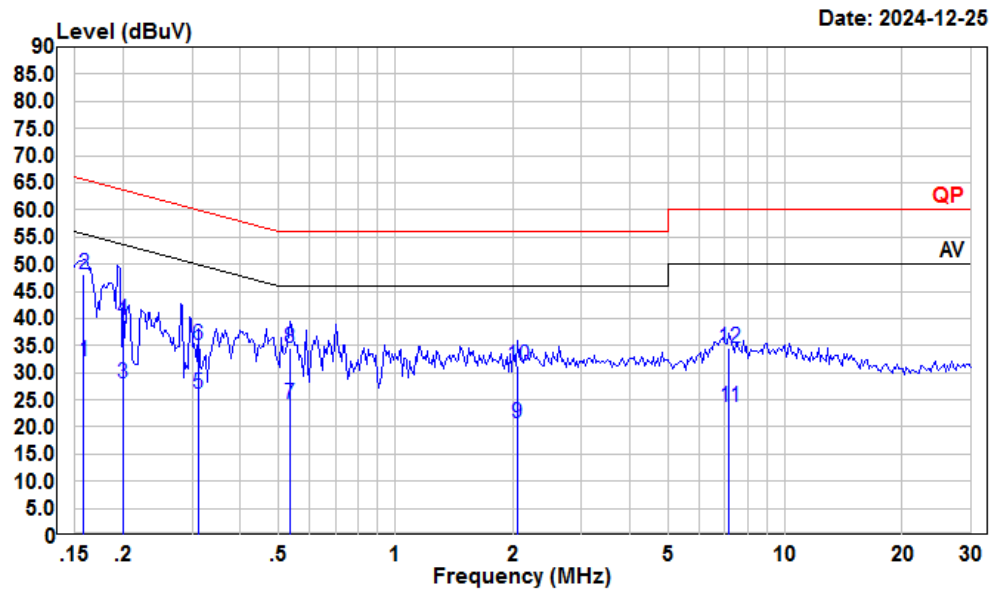
Project : 2401A64759E-RF

tester : Macy.shi Note:Transmitting

Setting : RBW:9kHz VBW:Auto SWT:Auto

	Freq	Read Level	LISN Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.167	11.35	32.31	10.86	10.10	55.12	-22.81	Average
2	0.167	27.04	48.00	10.86	10.10	65.12	-17.12	QP
3	0.211	7.88	28.75	10.78	10.09	53.18	-24.43	Average
4	0.211	22.92	43.79	10.78	10.09	63.18	-19.39	QP
5	0.415	4.13	24.80	10.56	10.11	47.55	-22.75	Average
6	0.415	15.11	35.78	10.56	10.11	57.55	-21.77	QP
7	0.524	4.76	25.40	10.50	10.14	46.00	-20.60	Average
8	0.524	16.04	36.68	10.50	10.14	56.00	-19.32	QP
9	2.167	-0.17	20.58	10.57	10.18	46.00	-25.42	Average
10	2.167	11.45	32.20	10.57	10.18	56.00	-23.80	QP
11	7.175	2.94	23.64	10.51	10.19	50.00	-26.36	Average
12	7.175	12.76	33.46	10.51	10.19	60.00	-26.54	QP

AC 120V 60 Hz, Neutral



Condition: Neutral

Project : 2401A64759E-RF

tester : Macy.shi Note:Transmitting

Setting : RBW:9kHz VBW:Auto SWT:Auto

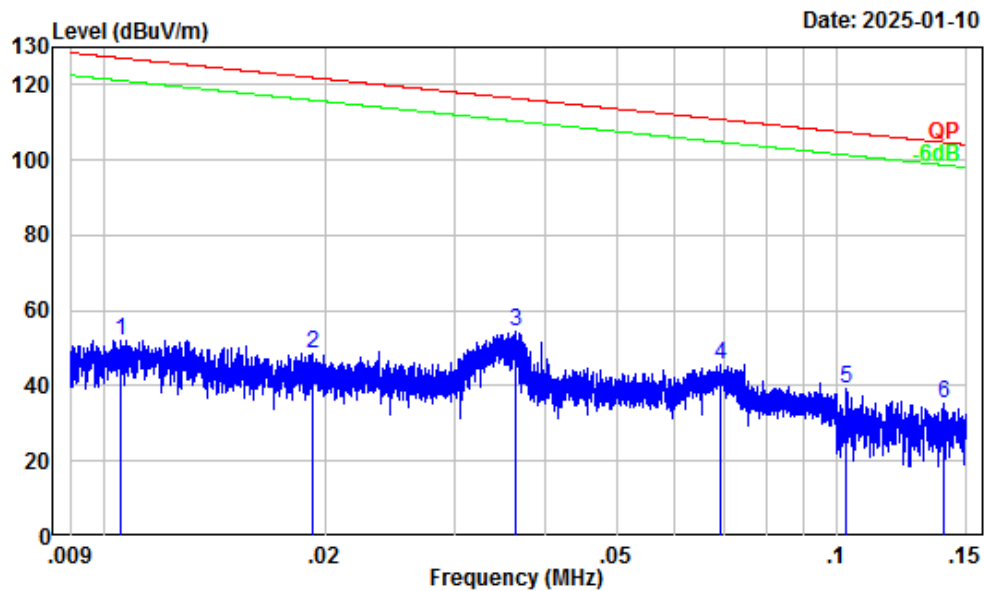
	Freq	Read Level	LISN Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.158	11.43	32.11	10.56	10.12	55.56	-23.45	Average
2	0.158	27.37	48.05	10.56	10.12	65.56	-17.51	QP
3	0.200	7.65	28.14	10.40	10.09	53.62	-25.48	Average
4	0.200	19.30	39.79	10.40	10.09	63.62	-23.83	QP
5	0.312	5.39	26.05	10.55	10.11	49.93	-23.88	Average
6	0.312	14.45	35.11	10.55	10.11	59.93	-24.82	QP
7	0.535	3.44	24.27	10.70	10.13	46.00	-21.73	Average
8	0.535	13.73	34.56	10.70	10.13	56.00	-21.44	QP
9	2.055	-0.02	20.57	10.40	10.19	46.00	-25.43	Average
10	2.055	10.72	31.31	10.40	10.19	56.00	-24.69	QP
11	7.175	2.90	23.80	10.71	10.19	50.00	-26.20	Average
12	7.175	13.54	34.44	10.71	10.19	60.00	-25.56	QP

Undesirable Emission

Temperature (°C)	22.1-26.5	Relative Humidity (%)	34-41
ATM Pressure (kPa):	101	Test engineer:	Anson Su&Zenos Qiao
Test date:	2025/1/7-2025/1/10		
EUT operation mode:	Below 1GHz: Transmitting (Maximum output power mode, 802.11ac80 5775MHz) Above 1GHz: Transmitting		
Note:	1. For the radiated spurious emission below 30MHz, only the worst case (parallel) was recorded. 2. For the radiated spurious emission below 30MHz, When the test result of peak was less than the limit of QP/Average more than 6dB, just peak value were recorded.		

Below 1GHz:

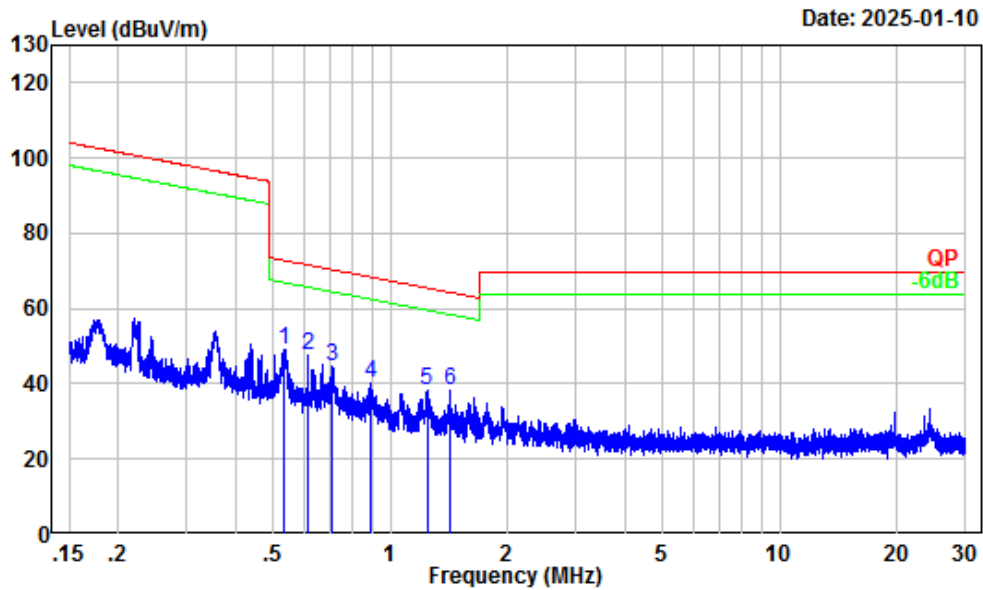
9kHz-150kHz_ANT0



Site : Chamber A
Condition : 3m
Project Number: 2401A64759E-RF
Test Mode : 5G WIFI Transmitting
Setting PK : RBW:0.3KHz VBW:1KHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.01	32.20	19.88	52.08	127.16	-75.08	Peak
2	0.02	30.54	18.13	48.67	121.92	-73.25	Peak
3	0.04	27.83	26.82	54.65	116.38	-61.73	Peak
4	0.07	24.47	20.93	45.40	110.79	-65.39	Peak
5	0.10	21.84	17.59	39.43	107.37	-67.94	Peak
6	0.14	19.66	15.53	35.19	104.70	-69.51	Peak

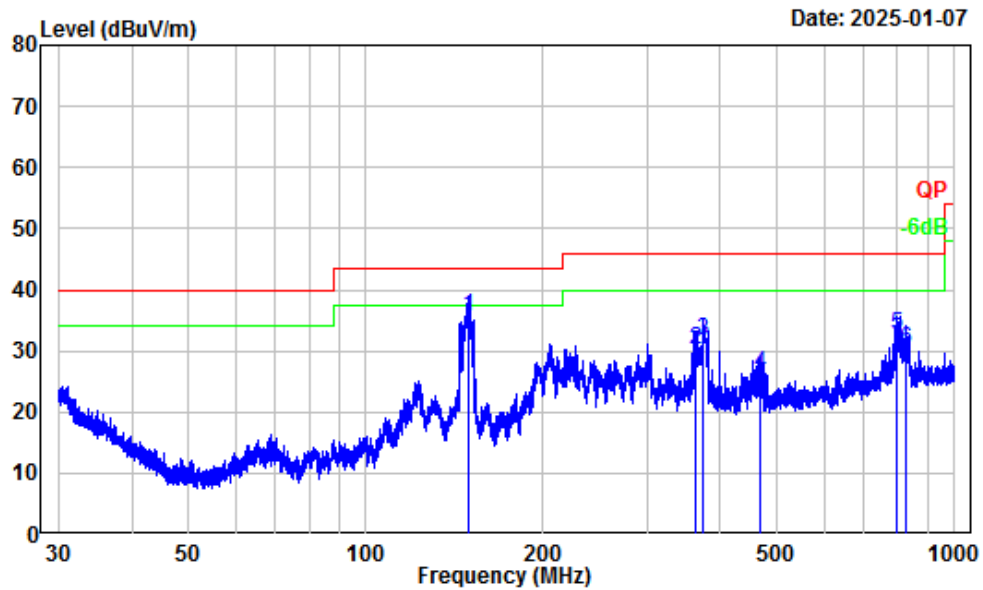
150kHz-30MHz_ANT0



Site : Chamber A
Condition : 3m
Project Number: 2401A64759E-RF
Test Mode : 5G WIFI Transmitting
Setting PK : RBW:10KHz VBW:30KHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.53	6.01	43.28	49.29	73.08	-23.79	Peak
2	0.61	4.98	42.37	47.35	71.79	-24.44	Peak
3	0.71	3.78	40.85	44.63	70.48	-25.85	Peak
4	0.89	2.01	38.06	40.07	68.49	-28.42	Peak
5	1.24	0.52	37.62	38.14	65.54	-27.40	Peak
6	1.42	0.02	38.06	38.08	64.34	-26.26	Peak

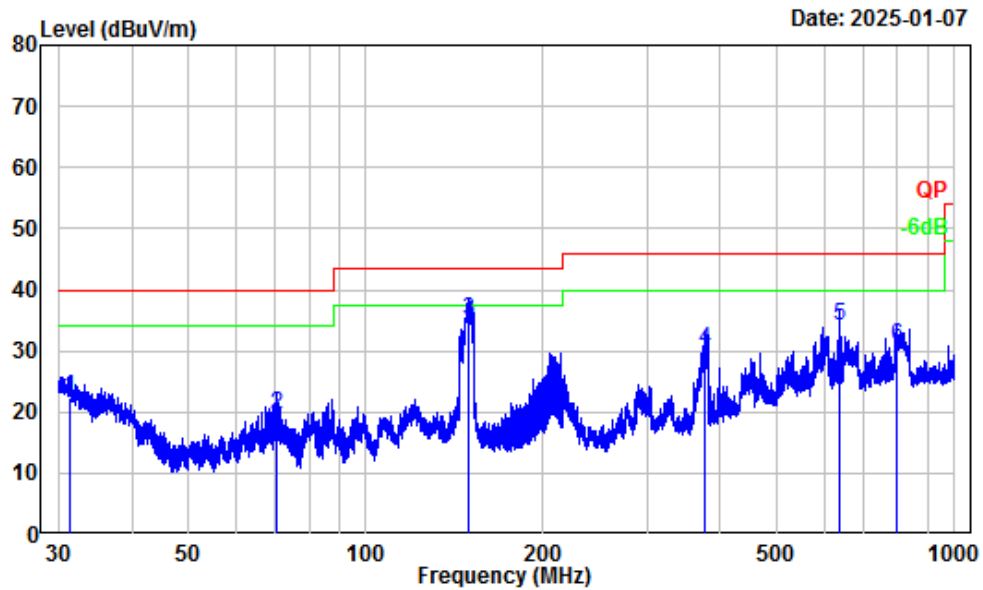
30MHz-1GHz_HorizontalANT_0



Site : Chamber A
Condition : 3m Horizontal
Project Number: 2401A64759E-RF
Test Mode : 5G WIFI Transmitting
Setting QP RBW: 120KHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	149.42	-12.40	47.93	35.53	43.50	-7.97	QP
2	364.26	-9.69	40.00	30.31	46.00	-15.69	QP
3	374.95	-9.29	41.00	31.71	46.00	-14.29	QP
4	467.85	-6.84	33.11	26.27	46.00	-19.73	QP
5	795.14	-2.24	34.94	32.70	46.00	-13.30	QP
6	827.13	-1.93	32.00	30.07	46.00	-15.93	QP

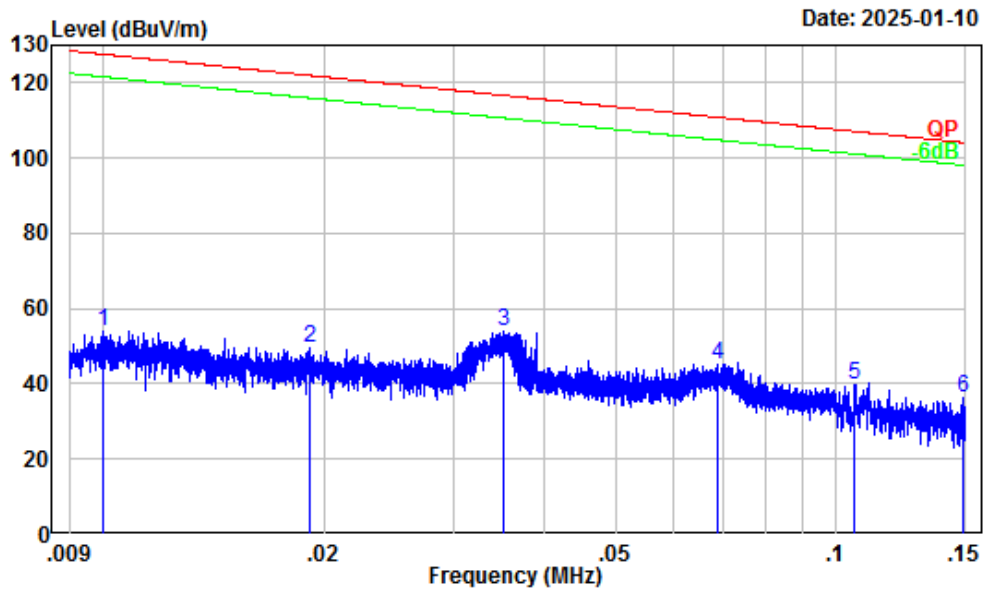
30MHz-1GHz_Vertical_ANT0



Site : Chamber A
Condition : 3m Vertical
Project Number: 2401A64759E-RF
Test Mode : 5G WIFI Transmitting
Setting QP RBW: 120KHz
Tester : Anson Su

	Freq		Read		Limit	Over	Remark
	Factor		Level	Level	Line	Limit	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	31.41	-6.72	29.00	22.28	40.00	-17.72	QP
2	70.49	-17.87	37.43	19.56	40.00	-20.44	QP
3	149.62	-12.42	47.59	35.17	43.50	-8.33	QP
4	377.76	-9.20	39.36	30.16	46.00	-15.84	QP
5	639.21	-4.26	38.24	33.98	46.00	-12.02	QP
6	795.49	-2.23	33.14	30.91	46.00	-15.09	QP

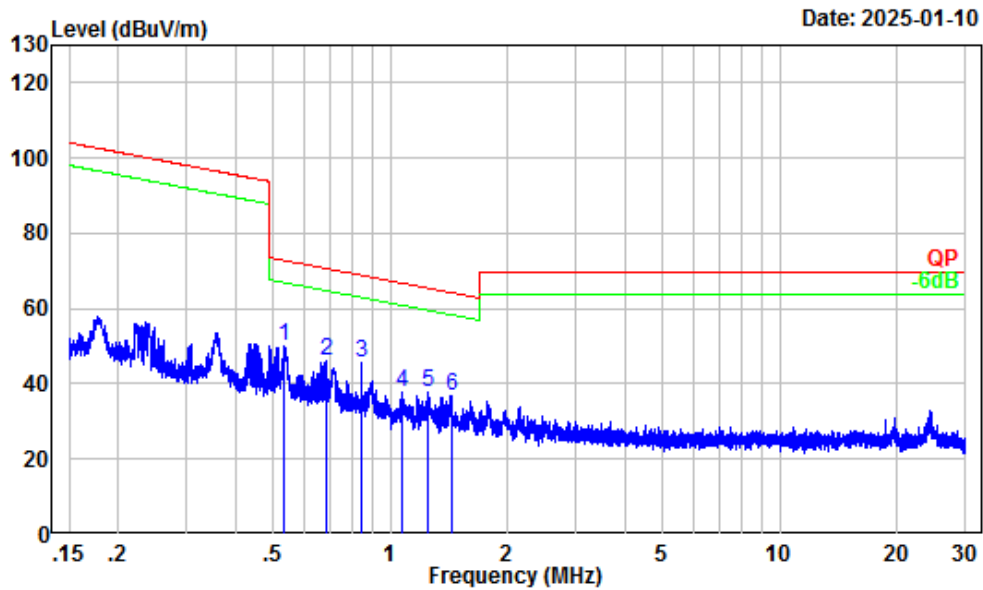
9kHz-150kHz_ANT1



Site : Chamber A
Condition : 3m
Project Number: 2401A64759E-RF
Test Mode : 5G WIFI Transmitting
Setting PK : RBW:0.3KHz VBW:1KHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.01	32.30	21.82	54.12	127.59	-73.47	Peak
2	0.02	30.57	19.22	49.79	121.98	-72.19	Peak
3	0.04	27.96	25.96	53.92	116.68	-62.76	Peak
4	0.07	24.52	20.72	45.24	110.85	-65.61	Peak
5	0.11	21.67	18.27	39.94	107.12	-67.18	Peak
6	0.15	19.12	16.97	36.09	104.15	-68.06	Peak

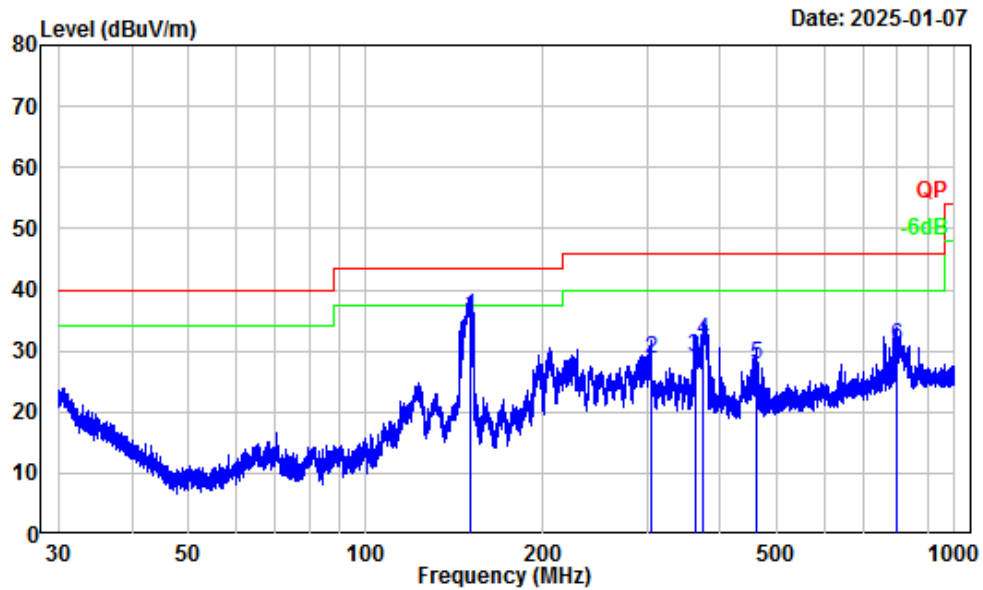
150kHz-30MHz_ANT1



Site : Chamber A
Condition : 3m
Project Number: 2401A64759E-RF
Test Mode : 5G WIFI Transmitting
Setting PK : RBW:10KHz VBW:30KHz
Tester : Anson Su

	Freq		Read		Limit	Over	Remark
	MHz	Factor	Level	Level	Line	Limit	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.54	5.96	44.14	50.10	73.01	-22.91	Peak
2	0.69	4.11	42.19	46.30	70.82	-24.52	Peak
3	0.84	2.36	43.21	45.57	68.97	-23.40	Peak
4	1.07	1.00	36.83	37.83	66.86	-29.03	Peak
5	1.25	0.49	37.33	37.82	65.46	-27.64	Peak
6	1.43	-0.02	36.94	36.92	64.27	-27.35	Peak

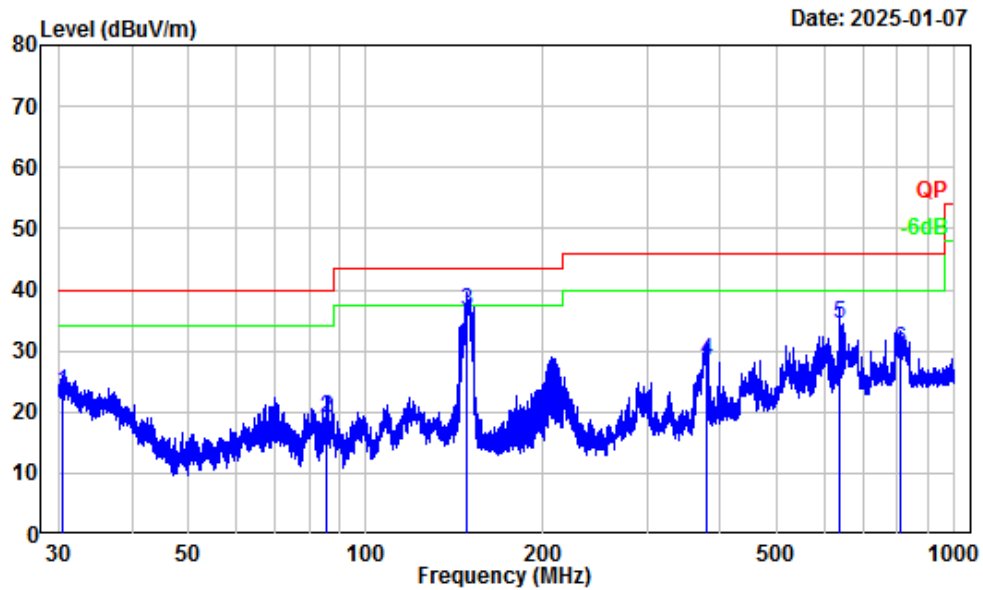
30MHz-1GHz_Horizontal_ANT1



Site : Chamber A
Condition : 3m Horizontal
Project Number: 2401A64759E-RF
Test Mode : 5G WIFI Transmitting
Setting QP RBW: 120KHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	150.01	-12.46	48.03	35.57	43.50	-7.93	QP
2	304.74	-11.08	39.80	28.72	46.00	-17.28	QP
3	361.87	-9.81	38.91	29.10	46.00	-16.90	QP
4	374.79	-9.30	40.88	31.58	46.00	-14.42	QP
5	460.12	-7.10	34.75	27.65	46.00	-18.35	QP
6	797.93	-2.18	33.00	30.82	46.00	-15.18	QP

30MHz-1GHz_Vertical_ANT1



Site : Chamber A
Condition : 3m Vertical
Project Number: 2401A64759E-RF
Test Mode : 5G WIFI Transmitting
Setting QP RBW: 120KHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	30.48	-6.20	29.59	23.39	40.00	-16.61	QP
2	85.41	-18.08	36.99	18.91	40.00	-21.09	QP
3	148.77	-12.36	48.80	36.44	43.50	-7.06	QP
4	379.41	-9.16	37.63	28.47	46.00	-17.53	QP
5	637.53	-4.29	38.61	34.32	46.00	-11.68	QP
6	809.56	-2.05	32.26	30.21	46.00	-15.79	QP

Above 1GHz:**5150-5250 MHz**

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave					
ANT0 802.11a							
Low Channel							
5150	66.45	PK	H	-7.45	59.00	74	-15.00
5150	52.82	AV	H	-7.45	45.37	54	-8.63
5150	65.96	PK	V	-7.45	58.51	74	-15.49
5150	52.61	AV	V	-7.45	45.16	54	-8.84
10360	51.81	PK	H	2.53	54.34	68.2	-13.86
10360	51.34	PK	V	2.53	53.87	68.2	-14.33
Middle Channel							
10400	50.9	PK	H	2.55	53.45	68.2	-14.75
10400	50.71	PK	V	2.55	53.26	68.2	-14.94
High Channel							
5350	66.51	PK	H	-6.74	59.77	74	-14.23
5350	53.71	AV	H	-6.74	46.97	54	-7.03
5350	66.58	PK	V	-6.74	59.84	74	-14.16
5350	53.36	AV	V	-6.74	46.62	54	-7.38
10480	50.57	PK	H	2.25	52.82	68.2	-15.38
10480	50.8	PK	V	2.25	53.05	68.2	-15.15

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave					
ANT1 802.11a							
Low Channel							
5150	65.37	PK	H	-7.45	57.92	74	-16.08
5150	52.81	AV	H	-7.45	45.36	54	-8.64
5150	66.41	PK	V	-7.45	58.96	74	-15.04
5150	53.31	AV	V	-7.45	45.86	54	-8.14
10360	51.04	PK	H	2.53	53.57	68.2	-14.63
10360	50.81	PK	V	2.53	53.34	68.2	-14.86
Middle Channel							
10400	51.53	PK	H	2.55	54.08	68.2	-14.12
10400	51.45	PK	V	2.55	54	68.2	-14.2
High Channel							
5350	65.7	PK	H	-6.74	58.96	74	-15.04
5350	52.86	AV	H	-6.74	46.12	54	-7.88
5350	65.62	PK	V	-6.74	58.88	74	-15.12
5350	52.67	AV	V	-6.74	45.93	54	-8.07
10480	52.07	PK	H	2.25	54.32	68.2	-13.88
10480	52.37	PK	V	2.25	54.62	68.2	-13.58
ANT0 802.11ac20							
Low Channel							
5150	66.61	PK	H	-7.45	59.16	74	-14.84
5150	53.49	AV	H	-7.45	46.04	54	-7.96
5150	66.58	PK	V	-7.45	59.13	74	-14.87
5150	53.37	AV	V	-7.45	45.92	54	-8.08
10360	50.61	PK	H	2.53	53.14	68.2	-15.06
10360	51.29	PK	V	2.53	53.82	68.2	-14.38
Middle Channel							
10400	51.02	PK	H	2.55	53.57	68.2	-14.63
10400	51.67	PK	V	2.55	54.22	68.2	-13.98
High Channel							
5350	65.43	PK	H	-6.74	58.69	74	-15.31
5350	52.63	AV	H	-6.74	45.89	54	-8.11
5350	65.66	PK	V	-6.74	58.92	74	-15.08
5350	52.34	AV	V	-6.74	45.6	54	-8.4
10480	51.99	PK	H	2.25	54.24	68.2	-13.96
10480	51.22	PK	V	2.25	53.47	68.2	-14.73

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave					
ANT1 802.11ac20							
Low Channel							
5150	72.67	PK	H	-7.45	65.22	74	-14.78
5150	54.99	AV	H	-7.45	47.54	54	-12.46
5150	75.11	PK	V	-7.45	67.66	74	-12.34
5150	55.7	AV	V	-7.45	48.25	54	-11.75
10360	50.68	PK	H	2.53	53.21	68.2	-14.99
10360	50.35	PK	V	2.53	52.88	68.2	-15.32
Middle Channel							
10400	51.19	PK	H	2.55	53.74	68.2	-14.46
10400	51.34	PK	V	2.55	53.89	68.2	-14.31
High Channel							
5350	65.53	PK	H	-6.74	58.79	74	-15.21
5350	52.66	AV	H	-6.74	45.92	54	-8.08
5350	65.5	PK	V	-6.74	58.76	74	-15.24
5350	52.69	AV	V	-6.74	45.95	54	-8.05
10480	51.14	PK	H	2.25	53.39	68.2	-14.81
10480	51.08	PK	V	2.25	53.33	68.2	-14.87
ANT0 802.11ac40							
Low Channel							
5150	74.69	PK	H	-7.45	67.24	74	-6.76
5150	53.75	AV	H	-7.45	46.3	54	-7.7
5150	73.49	PK	V	-7.45	66.04	74	-7.96
5150	53.11	AV	V	-7.45	45.66	54	-8.34
10380	50.42	PK	H	2.54	52.96	68.2	-15.24
10380	51.17	PK	V	2.54	53.71	68.2	-14.49
High Channel							
5350	65.74	PK	H	-6.74	59.00	74	-15.00
5350	52.64	AV	H	-6.74	45.90	54	-8.10
5350	65.77	PK	V	-6.74	59.03	74	-14.97
5350	52.97	AV	V	-6.74	46.23	54	-7.77
10460	51.58	PK	H	2.32	53.9	68.2	-14.3
10460	50.54	PK	V	2.32	52.86	68.2	-15.34

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave					
ANT1 802.11ac40							
Low Channel							
5150	72.35	PK	H	-7.45	64.90	74	-9.1
5150	53.57	AV	H	-7.45	46.12	54	-7.88
5150	73.33	PK	V	-7.45	65.88	74	-8.12
5150	54.34	AV	V	-7.45	46.89	54	-7.11
10380	51.66	PK	H	2.54	54.20	68.2	-14
10380	51.13	PK	V	2.54	53.67	68.2	-14.53
High Channel							
5350	65.54	PK	H	-6.74	58.80	74	-15.20
5350	52.91	AV	H	-6.74	46.17	54	-7.83
5350	65.82	PK	V	-6.74	59.08	74	-14.92
5350	52.59	AV	V	-6.74	45.85	54	-8.15
10460	51.09	PK	H	2.32	53.41	68.2	-14.79
10460	51.31	PK	V	2.32	53.63	68.2	-14.57
ANT0 802.11ac80							
Middle Channel							
5150	74.40	PK	H	-7.45	66.95	74	-7.05
5150	52.85	AV	H	-7.45	45.40	54	-8.60
5150	73.65	PK	V	-7.45	66.20	74	-7.80
5150	52.29	AV	V	-7.45	44.84	54	-9.16
5350	65.42	PK	H	-6.74	58.68	74	-15.32
5350	52.66	AV	H	-6.74	45.92	54	-8.08
5350	65.41	PK	V	-6.74	58.67	74	-15.33
5350	52.37	AV	V	-6.74	45.63	54	-8.37
10420	51.11	PK	H	2.48	53.59	68.2	-14.61
10420	51.37	PK	V	2.48	53.85	68.2	-14.35

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave					
ANT1 802.11ac80							
Middle Channel							
5150	72.74	PK	H	-7.45	65.29	74	-8.71
5150	52.47	AV	H	-7.45	45.02	54	-8.98
5150	74.48	PK	V	-7.45	67.03	74	-6.97
5150	53.57	AV	V	-7.45	46.12	54	-7.88
5350	68.66	PK	H	-6.74	61.92	74	-12.08
5350	53.60	AV	H	-6.74	46.86	54	-7.14
5350	69.74	PK	V	-6.74	63.00	74	-11.00
5350	54.36	AV	V	-6.74	47.62	54	-6.38
10420	50.52	PK	H	2.48	53.00	68.2	-15.20
10420	51.24	PK	V	2.48	53.72	68.2	-14.48

5725-5850MHz

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave					
ANT0 802.11a							
Low Channel							
5725	76.58	PK	H	-5.49	71.09	122.2	-53.11
5725	75.36	PK	V	-5.49	69.87	122.2	-54.33
5720	73.23	PK	H	-5.53	67.7	110.8	-45.10
5720	71.58	PK	V	-5.53	66.05	110.8	-46.75
5700	66.50	PK	H	-5.72	60.78	105.2	-46.42
5700	66.69	PK	V	-5.72	60.97	105.2	-46.23
5650	66.67	PK	H	-5.86	60.81	68.2	-9.39
5650	76.58	PK	V	-5.86	60.89	68.2	-9.31
11490	50.67	PK	H	3.54	54.21	74	-19.79
11490	39.06	AV	H	3.54	42.6	54	-11.40
11490	50.98	PK	V	3.54	54.52	74	-19.48
11490	39.10	AV	V	3.54	42.64	54	-11.36
Middle Channel							
11570	52.23	PK	H	3.3	55.53	74	-18.47
11570	40.85	AV	H	3.3	44.15	54	-9.85
11570	52.63	PK	V	3.3	55.93	74	-18.07
11570	40.85	AV	V	3.3	44.15	54	-9.85
High Channel							
5850	80.15	PK	H	-4.68	75.47	122.2	-46.73
5850	80.88	PK	V	-4.68	76.2	122.2	-46.00
5855	77.30	PK	H	-4.65	72.65	110.8	-38.15
5855	78.26	PK	V	-4.65	73.61	110.8	-37.19
5875	67.15	PK	H	-4.57	62.58	105.2	-42.62
5875	67.17	PK	V	-4.57	62.6	105.2	-42.60
5925	66.53	PK	H	-4.45	62.08	68.2	-6.12
5925	66.62	PK	V	-4.45	62.17	68.2	-6.03
11650	52.51	PK	H	3.42	55.93	74	-18.07
11650	40.81	AV	H	3.42	44.23	54	-9.77
11650	52.59	PK	V	3.42	56.01	74	-17.99
11650	40.67	AV	V	3.42	44.09	54	-9.91

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave					
ANT1 802.11a							
Low Channel							
5725	76.50	PK	H	-5.49	71.01	122.2	-51.19
5725	82.81	PK	V	-5.49	77.32	122.2	-44.88
5720	71.13	PK	H	-5.53	65.60	110.8	-45.20
5720	75.57	PK	V	-5.53	70.04	110.8	-40.76
5700	66.53	PK	H	-5.72	60.81	105.2	-44.39
5700	67.42	PK	V	-5.72	61.70	105.2	-43.50
5650	67.13	PK	H	-5.86	61.27	68.2	-6.93
5650	67.17	PK	V	-5.86	61.31	68.2	-6.89
11490	51.47	PK	H	3.54	55.01	74	-18.99
11490	39.18	AV	H	3.54	42.72	54	-11.28
11490	50.58	PK	V	3.54	54.12	74	-19.88
11490	39.03	AV	V	3.54	42.57	54	-11.43
Middle Channel							
11570	52.74	PK	H	3.3	56.04	74	-17.96
11570	40.70	AV	H	3.3	44	54	-10.00
11570	53.61	PK	V	3.3	56.91	74	-17.09
11570	41.27	AV	V	3.3	44.57	54	-9.43
High Channel							
5850	76.62	PK	H	-4.68	71.94	122.2	-50.26
5850	81.96	PK	V	-4.68	77.28	122.2	-44.92
5855	73.59	PK	H	-4.65	68.94	110.8	-41.86
5855	78.17	PK	V	-4.65	73.52	110.8	-37.28
5875	66.77	PK	H	-4.57	62.2	105.2	-43.00
5875	69.87	PK	V	-4.57	65.3	105.2	-39.90
5925	66.63	PK	H	-4.45	62.18	68.2	-6.02
5925	66.88	PK	V	-4.45	62.43	68.2	-5.77
11650	53.66	PK	H	3.42	57.08	74	-16.92
11650	41.32	AV	H	3.42	44.74	54	-9.26
11650	52.16	PK	V	3.42	55.58	74	-18.42
11650	40.79	AV	V	3.42	44.21	54	-9.79

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave					
ANT0 802.11ac20							
Low Channel							
5725	77.55	PK	H	-5.49	72.06	122.2	-50.14
5725	78.84	PK	V	-5.49	73.35	122.2	-48.85
5720	72.96	PK	H	-5.53	67.43	110.8	-43.37
5720	73.83	PK	V	-5.53	68.3	110.8	-42.50
5700	66.48	PK	H	-5.72	60.76	105.2	-44.44
5700	67.24	PK	V	-5.72	61.52	105.2	-43.68
5650	65.98	PK	H	-5.86	60.12	68.2	-8.08
5650	66.03	PK	V	-5.86	60.17	68.2	-8.03
11490	51.17	PK	H	3.54	54.71	74	-19.29
11490	39.09	AV	H	3.54	42.63	54	-11.37
11490	51.62	PK	V	3.54	55.16	74	-18.84
11490	39.44	AV	V	3.54	42.98	54	-11.02
Middle Channel							
11570	52.63	PK	H	3.3	55.93	74	-18.07
11570	40.74	AV	H	3.3	44.04	54	-9.96
11570	52.55	PK	V	3.3	55.85	74	-18.15
11570	40.75	AV	V	3.3	44.05	54	-9.95
High Channel							
5850	83.72	PK	H	-4.68	79.04	122.2	-43.16
5850	85.54	PK	V	-4.68	80.86	122.2	-41.34
5855	80.94	PK	H	-4.65	76.29	110.8	-34.51
5855	82.80	PK	V	-4.65	78.15	110.8	-32.65
5875	69.95	PK	H	-4.57	65.38	105.2	-39.82
5875	69.41	PK	V	-4.57	64.84	105.2	-40.36
5925	65.57	PK	H	-4.45	61.12	68.2	-7.08
5925	66.46	PK	V	-4.45	62.01	68.2	-6.19
11650	51.53	PK	H	3.42	54.95	74	-19.05
11650	39.22	AV	H	3.42	42.64	54	-11.36
11650	51.26	PK	V	3.42	54.68	74	-19.32
11650	39.37	AV	V	3.42	42.79	54	-11.21

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave					
ANT1 802.11ac20							
Low Channel							
5725	79.58	PK	H	-5.49	74.09	122.2	-48.11
5725	84.43	PK	V	-5.49	78.94	122.2	-43.26
5720	74.02	PK	H	-5.53	68.49	110.8	-42.31
5720	78.72	PK	V	-5.53	73.19	110.8	-37.61
5700	66.95	PK	H	-5.72	61.23	105.2	-43.97
5700	68.79	PK	V	-5.72	63.07	105.2	-42.13
5650	66.28	PK	H	-5.86	60.42	68.2	-7.78
5650	66.24	PK	V	-5.86	60.38	68.2	-7.82
11490	51.53	PK	H	3.54	55.07	74	-18.93
11490	39.70	AV	H	3.54	43.24	54	-10.76
11490	52.84	PK	V	3.54	56.38	74	-17.62
11490	40.76	AV	V	3.54	44.3	54	-9.70
Middle Channel							
11570	54.11	PK	H	3.3	57.41	74	-16.59
11570	42.18	AV	H	3.3	45.48	54	-8.52
11570	53.92	PK	V	3.3	57.22	74	-16.78
11570	41.84	AV	V	3.3	45.14	54	-8.86
High Channel							
5850	82.02	PK	H	-4.68	77.34	122.2	-44.86
5850	83.53	PK	V	-4.68	78.85	122.2	-43.35
5855	79.12	PK	H	-4.65	74.47	110.8	-36.33
5855	80.70	PK	V	-4.65	76.05	110.8	-34.75
5875	69.97	PK	H	-4.57	65.4	105.2	-39.80
5875	71.26	PK	V	-4.57	66.69	105.2	-38.51
5925	66.48	PK	H	-4.45	62.03	68.2	-6.17
5925	66.74	PK	V	-4.45	62.29	68.2	-5.91
11650	53.53	PK	H	3.42	56.95	74	-17.05
11650	41.66	AV	H	3.42	45.08	54	-8.92
11650	53.01	PK	V	3.42	56.43	74	-17.57
11650	40.53	AV	H	3.42	43.95	54	-10.05

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave					
ANT0 802.11ac40							
Low Channel							
5725	80.69	PK	H	-5.49	75.2	122.2	-47.00
5725	81.40	PK	V	-5.49	75.91	122.2	-46.29
5720	78.29	PK	H	-5.53	72.76	110.8	-38.04
5720	80.20	PK	V	-5.53	74.67	110.8	-36.13
5700	71.45	PK	H	-5.72	65.73	105.2	-39.47
5700	71.12	PK	V	-5.72	65.4	105.2	-39.80
5650	66.05	PK	H	-5.86	60.19	68.2	-8.01
5650	66.45	PK	V	-5.86	60.59	68.2	-7.61
11510	53.16	PK	H	3.53	56.69	74	-17.31
11510	41.65	AV	H	3.53	45.18	54	-8.82
11510	53.23	PK	V	3.53	56.76	74	-17.24
11510	41.57	AV	V	3.53	45.1	54	-8.90
High Channel							
5850	78.64	PK	H	-4.68	73.96	122.2	-48.24
5850	80.04	PK	V	-4.68	75.36	122.2	-46.84
5855	75.78	PK	H	-4.65	71.13	110.8	-39.67
5855	77.39	PK	V	-4.65	72.74	110.8	-38.06
5875	70.33	PK	H	-4.57	65.76	105.2	-39.44
5875	70.83	PK	V	-4.57	66.26	105.2	-38.94
5925	66.48	PK	H	-4.45	62.03	68.2	-6.17
5925	66.68	PK	V	-4.45	62.23	68.2	-5.97
11590	54.65	PK	H	3.21	57.86	74	-16.14
11590	42.50	AV	H	3.21	45.71	54	-8.29
11590	54.23	PK	V	3.21	57.44	74	-16.56
11590	42.21	AV	V	3.21	45.42	54	-8.58

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave					
ANT1 802.11ac40							
Low Channel							
5725	85.05	PK	H	-5.49	79.56	122.2	-42.64
5725	86.50	PK	V	-5.49	81.01	122.2	-41.19
5720	86.64	PK	H	-5.53	81.11	110.8	-29.69
5720	87.95	PK	V	-5.53	82.42	110.8	-28.38
5700	75.72	PK	H	-5.72	70	105.2	-35.20
5700	75.79	PK	V	-5.72	70.07	105.2	-35.13
5650	67.10	PK	H	-5.86	61.24	68.2	-6.96
5650	66.93	PK	V	-5.86	61.07	68.2	-7.13
11510	52.72	PK	H	3.53	56.25	74	-17.75
11510	40.35	AV	H	3.53	43.88	54	-10.12
11510	52.97	PK	V	3.53	56.5	74	-17.50
11510	40.87	AV	V	3.53	44.4	54	-9.60
High Channel							
5850	78.53	PK	H	-4.68	73.85	122.2	-48.35
5850	79.58	PK	V	-4.68	74.9	122.2	-47.30
5855	74.91	PK	H	-4.65	70.26	110.8	-40.54
5855	75.28	PK	V	-4.65	70.63	110.8	-40.17
5875	71.47	PK	H	-4.57	66.9	105.2	-38.30
5875	72.01	PK	V	-4.57	67.44	105.2	-37.76
5925	66.73	PK	H	-4.45	62.28	68.2	-5.92
5925	66.75	PK	V	-4.45	62.3	68.2	-5.90
11590	53.71	PK	H	3.21	56.92	74	-17.08
11590	42.00	AV	H	3.21	45.21	54	-8.79
11590	54.09	PK	V	3.21	57.3	74	-16.70
11590	42.20	AV	V	3.21	45.41	54	-8.59

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave					
ANT0 802.11ac80							
Middle Channel							
5725	78.13	PK	H	-5.49	72.64	122.2	-49.56
5725	80.64	PK	V	-5.49	75.15	122.2	-47.05
5720	79.34	PK	H	-5.53	73.81	110.8	-36.99
5720	81.15	PK	V	-5.53	75.62	110.8	-35.18
5700	73.80	PK	H	-5.72	68.08	105.2	-37.12
5700	75.78	PK	V	-5.72	70.06	105.2	-35.14
5650	66.65	PK	H	-5.86	60.79	68.2	-7.41
5650	66.89	PK	V	-5.86	61.03	68.2	-7.17
5850	79.64	PK	H	-4.68	74.96	122.2	-47.24
5850	83.70	PK	V	-4.68	79.02	122.2	-43.18
5855	78.89	PK	H	-4.65	74.24	110.8	-36.56
5855	81.66	PK	V	-4.65	77.01	110.8	-33.79
5875	74.26	PK	H	-4.57	69.69	105.2	-35.51
5875	76.81	PK	V	-4.57	72.24	105.2	-32.96
5925	65.24	PK	H	-4.45	60.79	68.2	-7.41
5925	66.79	PK	V	-4.45	62.34	68.2	-5.86
11550	53.14	PK	H	3.37	56.51	74	-17.49
11550	41.26	AV	H	3.37	44.63	54	-9.37
11550	52.77	PK	V	3.37	56.14	74	-17.86
11550	41.34	AV	V	3.37	44.71	54	-9.29

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave					
ANT1 802.11ac80							
Middle Channel							
5725	81.64	PK	H	-5.49	76.15	122.2	-46.05
5725	82.77	PK	V	-5.49	77.28	122.2	-44.92
5720	83.36	PK	H	-5.53	77.83	110.8	-32.97
5720	84.82	PK	V	-5.53	79.29	110.8	-31.51
5700	78.88	PK	H	-5.72	73.16	105.2	-32.04
5700	80.73	PK	V	-5.72	75.01	105.2	-30.19
5650	66.32	PK	H	-5.86	60.46	68.2	-7.74
5650	68.73	PK	V	-5.86	62.87	68.2	-5.33
5850	79.75	PK	H	-4.68	75.07	122.2	-47.13
5850	81.09	PK	V	-4.68	76.41	122.2	-45.79
5855	78.59	PK	H	-4.65	73.94	110.8	-36.86
5855	80.11	PK	V	-4.65	75.46	110.8	-35.34
5875	75.84	PK	H	-4.57	71.27	105.2	-33.93
5875	76.13	PK	V	-4.57	71.56	105.2	-33.64
5925	66.96	PK	H	-4.45	62.51	68.2	-5.69
5925	67.30	PK	V	-4.45	62.85	68.2	-5.35
11550	52.95	PK	H	3.37	56.32	74	-17.68
11550	41.22	AV	H	3.37	44.59	54	-9.41
11550	53.31	PK	V	3.37	56.68	74	-17.32
11550	41.28	AV	V	3.37	44.65	54	-9.35

Note:

Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

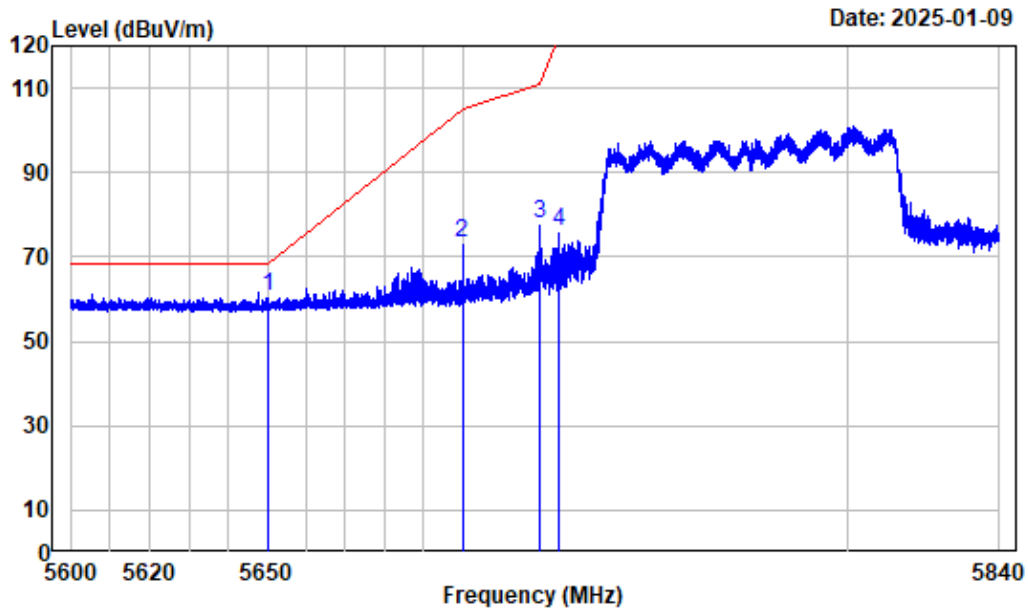
Corrected Amplitude = Factor + Reading

Margin = Corrected. Amplitude - Limit

The other spurious emission which is in the noise floor level was not recorded.

Test plots: (*Worst Case*)

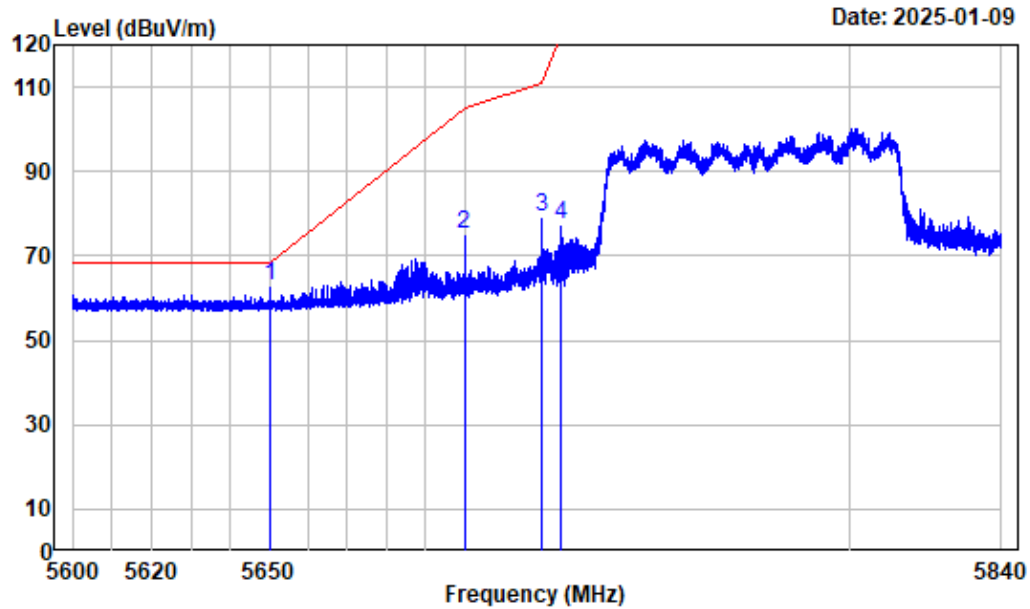
Left Band edge_Horizontal



Condition : Horizontal
Project No.: 2401A64759E-RF
Tester : Zenos Qiao
Note : 5GWiFi-Band4-AC80_ANT1-5775

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5650.000	-5.86	66.32	60.46	68.20	-7.74	Peak
2	5700.000	-5.72	78.88	73.16	105.20	-32.04	Peak
3	5720.000	-5.53	83.36	77.83	110.80	-32.97	Peak
4	5725.000	-5.49	81.64	76.15	122.20	-46.05	Peak

Left Band edge_Vertical



Condition : Vertical

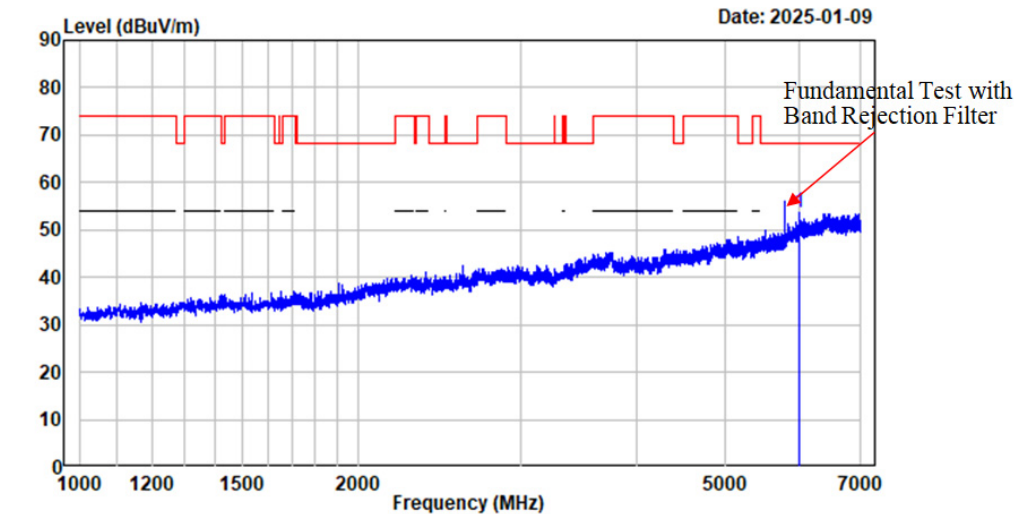
Project No.: 2401A64759E-RF

Tester : Zenos Qiao

Note : 5GWiFi-Band4-AC80_ANT1-5775

	Freq	Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5650.000	-5.86	68.73	62.87	68.20	-5.33	Peak
2	5700.000	-5.72	80.73	75.01	105.20	-30.19	Peak
3	5720.000	-5.53	84.82	79.29	110.80	-31.51	Peak
4	5725.000	-5.49	82.77	77.28	122.20	-44.92	Peak

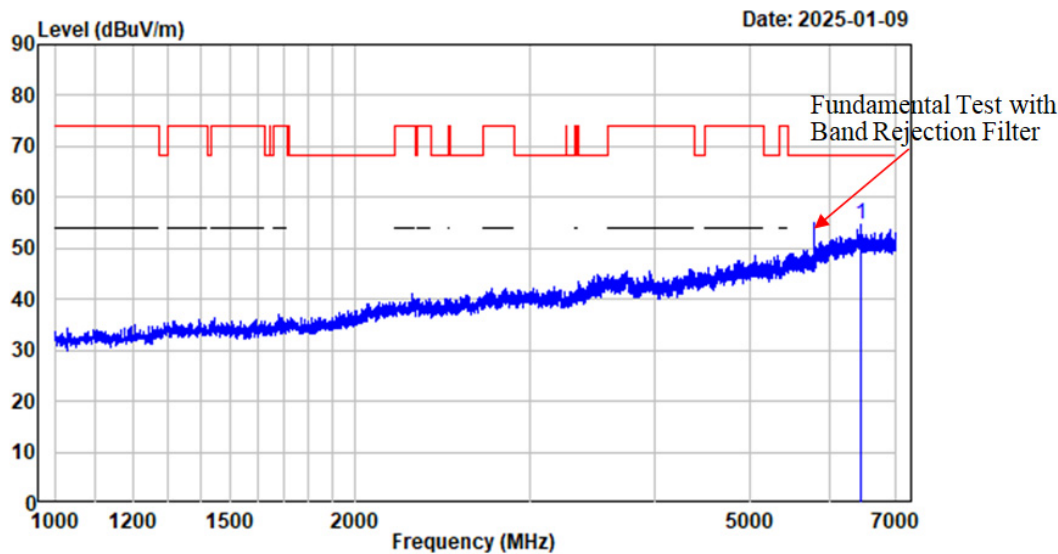
1-18GHz (Listed with the worst harmonic margin test plot)
1-7GHz_Horizontal



Condition : Horizontal
Project No.: 2401A64759E-RF
Tester : Zenos Qiao
Note : 5GWiFi-Band4-AC40_ANT0-5795

	Freq	Factor	Read		Limit	Over	Remark
			Level	Level	Line	Limit	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	6014.377	-4.42	57.99	53.57	68.20	-14.63	Peak

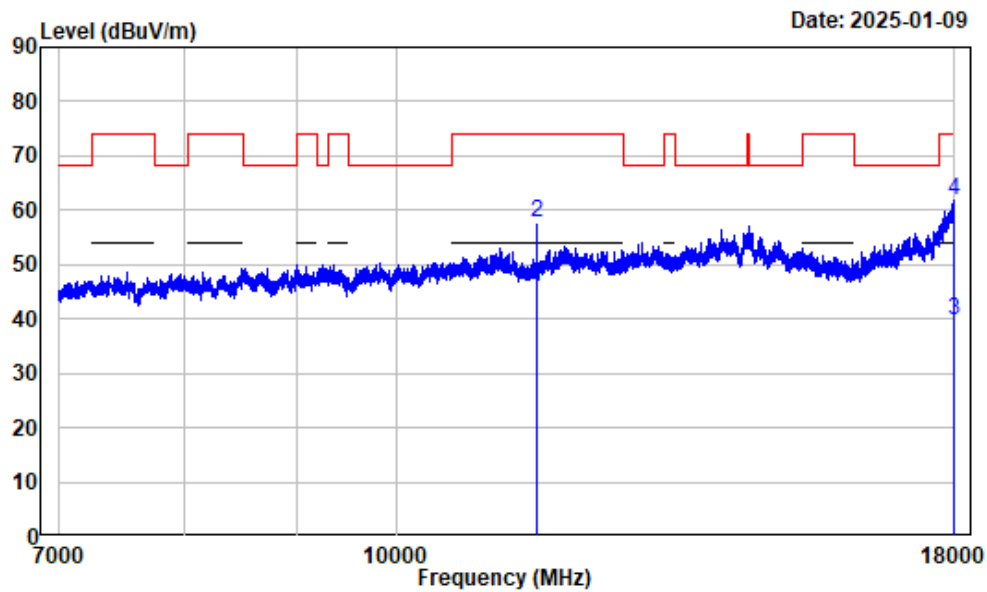
1-7GHz_Vertical



Condition : Vertical
Project No.: 2401A64759E-RF
Tester : Zenos Qiao
Note : 5GWiFi-Band4-AC40_ANT0-5795

	Freq	Factor	Read		Limit	Over	Remark
			Level	Level	Line	Limit	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	6446.431	-2.88	57.47	54.59	68.20	-13.61	Peak

7-18GHz_Horizontal



Condition : Horizontal

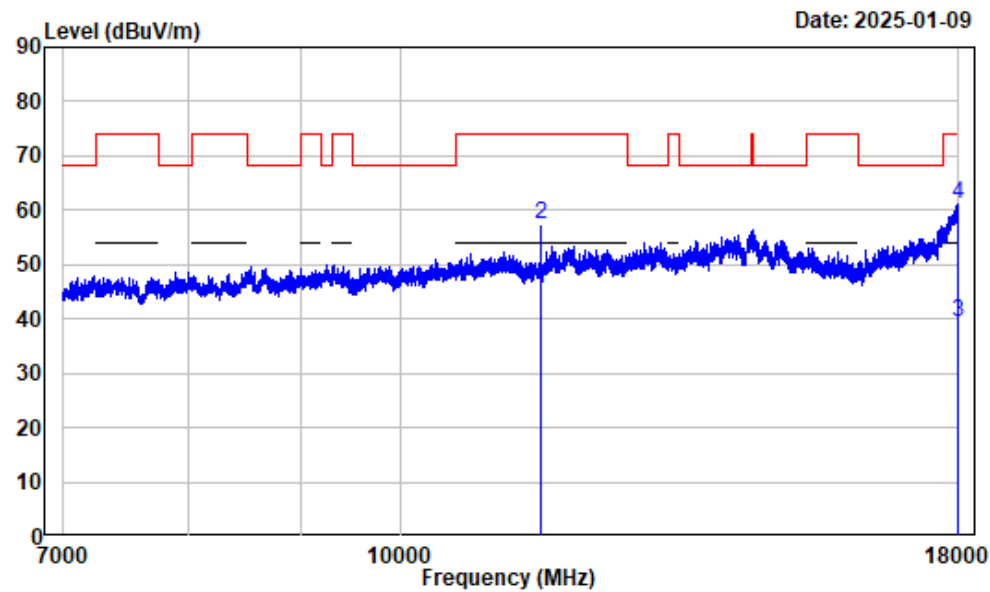
Project No.: 2401A64759E-RF

Tester : Zenos Qiao

Note : 5GWiFi-Band4-AC40_ANT0-5795

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11590.000	3.21	42.50	45.71	54.00	-8.29	Average
2	11590.000	3.21	54.65	57.86	74.00	-16.14	Peak
3	17986.250	13.12	26.55	39.67	54.00	-14.33	Average
4	17986.250	13.12	48.77	61.89	74.00	-12.11	Peak

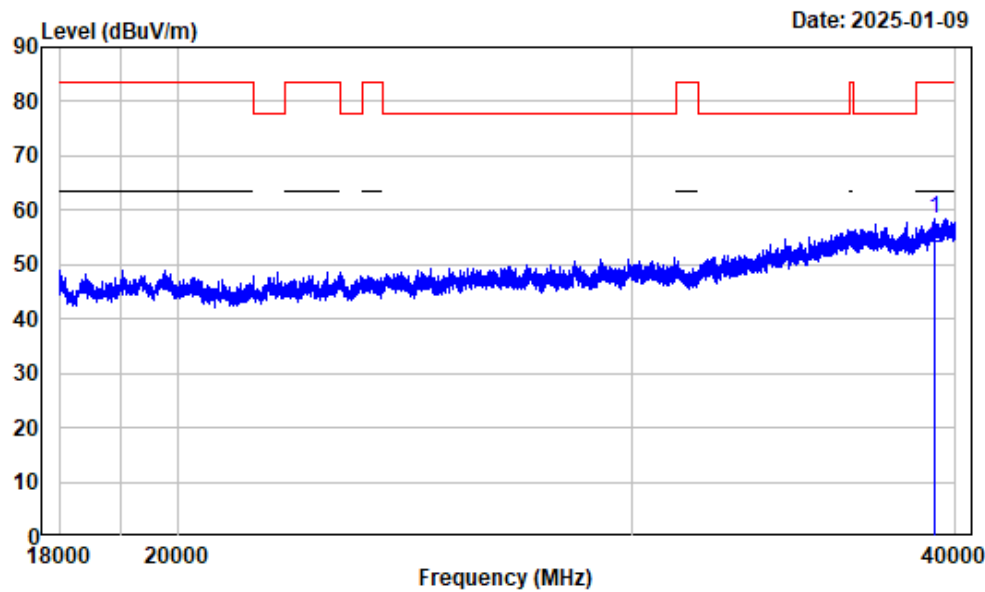
7-18GHz_Vertical



Condition : Vertical
Project No.: 2401A64759E-RF
Tester : Zenos Qiao
Note : 5GWiFi-Band4-AC40_ANT0-5795

		Read		Limit	Over	Remark
Freq	Factor	Level	Level	Line	Limit	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11590.000	3.21	42.21	45.42	54.00	-8.58	Average
2 11590.000	3.21	54.23	57.44	74.00	-16.56	Peak
3 17994.500	13.17	26.23	39.40	54.00	-14.60	Average
4 17994.500	13.17	47.90	61.07	74.00	-12.93	Peak

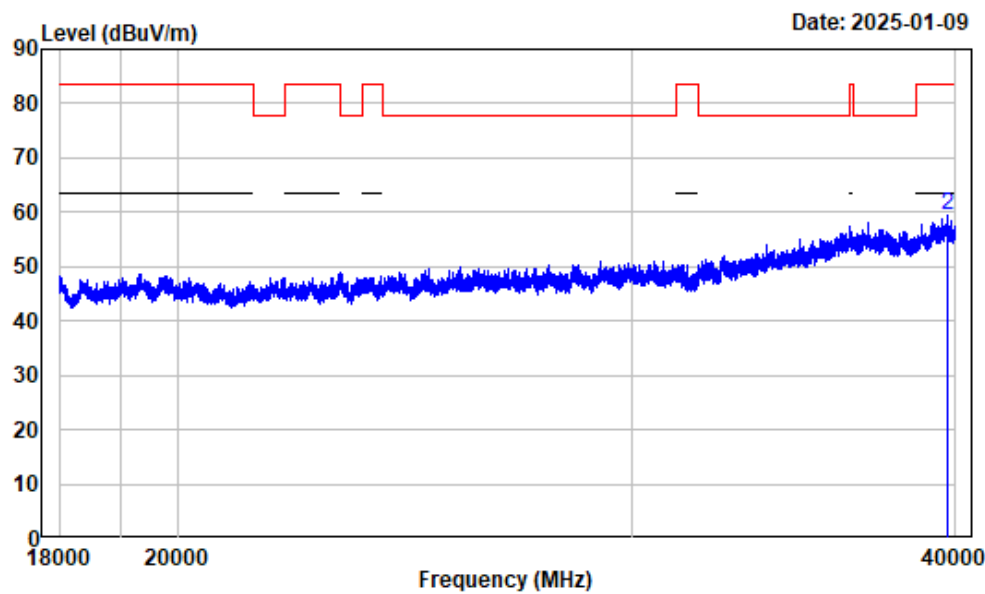
18-40GHz_Horizontal



Condition : Horizontal
Project No.: 2401A64759E-RF
Tester : Zenos Qiao
Note : 5GWiFi-Band4-AC40_ANT0-5795

		Read		Limit	Over	Remark
Freq	Factor	Level	Level	Line	Limit	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 39276.660	22.75	35.60	58.35	83.50	-25.15	Peak
2 39276.660	22.75	30.27	53.02	63.50	-10.48	Peak

18-40GHz_Vertical



Condition : Vertical
Project No.: 2401A64759E-RF
Tester : Zenos Qiao
Note : 5GWiFi-Band4-AC40_ANT0-5795

		Read		Limit	Over	Remark
Freq	Factor	Level	Level	Line	Limit	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 39738.720	22.59	30.68	53.27	63.50	-10.23	Average
2 39738.720	22.59	36.84	59.43	83.50	-24.07	Peak

RF Conducted data

Please refer to Annex "Appendix A" for detail test data.

RF EXPOSURE EVALUATION

MPE-Based Exemption

Applicable Standard

According to subpart 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

According to KDB 447498 D04 Interim General RF Exposure Guidance

MPE-Based Exemption:

General frequency and separation-distance dependent MPE-based effective radiated power(ERP) thresholds are in Table B.1 [Table 1 of § 1.1307(b)(3)(i)(C)] to support an exemption from further evaluation from 300 kHz through 100 GHz.

Table 1 to § 1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation

RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	$1,920 R^2$.
1.34-30	$3,450 R^2/f^2$.
30-300	$3.83 R^2$.
300-1,500	$0.0128 R^2 f$.
1,500-100,000	$19.2 R^2$.

R is the minimum separation distance in meters

f = frequency in MHz

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

Result

Mode	Frequency (MHz)	Tune up conducted power [#] (dBm)	Antenna Gain [#]		ERP		Evaluation Distance (m)	ERP Limit (W)
			(dBi)	(dBd)	(dBm)	(W)		
BT	2402-2480	8.0	1.99	-0.16	7.84	0.006	0.2	0.768
BLE	2402-2480	8.0	1.99	-0.16	7.84	0.006	0.2	0.768
2.4G Wi-Fi	2412-2462	22.5	1.99	-0.16	22.34	0.171	0.2	0.768
5.2G Wi-Fi	5180-5240	11.5	3.52	1.37	12.87	0.019	0.2	0.768
5.8G Wi-Fi	5745-5825	12.5	3.52	1.37	13.87	0.024	0.2	0.768

Note:

- 1) The tune up conducted power and antenna gain was declared by the applicant.
- 2) The BT/2.4G and 5G Wi-Fi can simultaneous transmitting, BT and 2.4G Wi-Fi cannot simultaneous transmitting.

Simultaneous transmitting consideration (worst case):

The ratio= $ERP_{2.4G\ Wi-Fi}/limit + ERP_{5G\ Wi-Fi}/limit = 0.171/0.768 + 0.024/0.768 = 0.254 < 1.0$,
so simultaneous exposure is compliant.

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliant

EUT PHOTOGRAPHS

Please refer to the attachment 2401A64759E-RF External photo and 2401A64759E-RF Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2401A64759E-RFB Test Setup photo.

******* END OF REPORT *******