





TEST REPORT

Applicant Name: Address: Report Number: FCC ID: FAMOCO SAS 59 avenue Victor Hugo, 75116 Paris, France 2401T35202E-RF-00B 2AGQIFX325-VAS

Test Standard (s)

FCC PART 15.407

Sample Description

Product Type:	NFC Android Reader
Model No.:	FX325-VAS
Multiple Model(s) No.:	N/A
Trade Mark:	FAMOCO
Date Received:	2024/05/28
Issue Date:	2024/08/09

Test Result: Pass▲

▲ In the configuration tested, the EUT complied with the standards above.

Prepared and Checked 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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TR-EM-RF015

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Version 3.0

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	2401T35202E-RF-00B	Original Report	2024/08/09

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	NFC Android Reader
Tested Model	FX325-VAS
Multiple Model(s)	N/A
Frequency Range	5G Wi-Fi: 5150-5250MHz; 5725-5850MHz
Mode	802.11a/n20/n40/ac20/ac40/ac80
Maximum Conducted Average Output Power	5150-5250MHz: 16.67dBm 5725-5850MHz: 17.34dBm
Modulation Technique	OFDM
Antenna Specification [#]	1.14dBi (provided by the applicant)
Voltage Range	DC 3.80V from Li-ion Battery or DC 5V/9V from Adapter
Sample serial number	2M2X-7 for Conducted and Radiated Emissions Test 2M2X-4 for RF Conducted Test (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	Model: APS-KI015WU-G Input: AC 100-240V, 50/60Hz, 0.5A Max Output: DC 5V/7V/9V, 1.67A or 12V, 1.25A
Note: The EUT powered by AC line conducted accordin report test result.	charger or direct charging, the worst case power supply was selected to test for g to DSS report test result and radiated emission below 1GHz according to DTS

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		Bandwidth	$\pm 5\%$
RI	F Frequen	cy	213.55 Hz(k=2, 95% level of confidence)
RF outpu	t power, c	onducted	0.72 dB(k=2, 95% level of confidence)
Unwanted	Emission,	conducted	1.75 dB(k=2, 95% level of confidence)
AC Power Lines Cond	ucted	9kHz-150kHz	3.94dB(k=2, 95% level of confidence)
Emissions		150kHz-30MHz	3.84dB(k=2, 95% level of confidence)
		9kHz - 30MHz	3.30dB(k=2, 95% level of confidence)
	30MHz~200MHz (Horizontal)		4.48dB(k=2, 95% level of confidence)
	30MHz~200MHz (Vertical)		4.55dB(k=2, 95% level of confidence)
Dedicted Emissions	200MHz~1000MHz (Horizontal)		4.85dB(k=2, 95% level of confidence)
Radiated Emissions	200MHz~1000MHz (Vertical)		5.05dB(k=2, 95% level of confidence)
	1GHz - 6GHz		5.35dB(k=2, 95% level of confidence)
		6GHz - 18GHz	5.44dB(k=2, 95% level of confidence)
18GHz - 40GHz		18GHz - 40GHz	5.16dB(k=2, 95% level of confidence)
Т	Temperature		±1°C
	Humidity		$\pm 1\%$
Supply voltages		ges	±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

The system was configured for testing in an engineering mode, which was provided by manufacturer.

The device support 802.11a/n20/n40/ac20/ac40/ac80 mode, the n20/n40 mode was reduced test as identical parameter with ac20/ac40 mode.

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

EUT was test in engineering mode and power level as below. The power level was provided by the applicant. The device was tested with the worst case was performed as below:

U NH	U NII Mada	Data vata	Power Level [#]		
U-MII	Nioue	Data rate	Low Channel	Middle Channel	High Channel
	802.11a	6Mbps	18	18	18
5150 5250MII-	802.11ac-VHT20	MCS0	18	18	18
5150 – 5250MHZ	802.11ac-VHT40	MCS0	15.5	/	15.5
	802.11ac-VHT80	MCS0	/	13	/
	802.11a	6Mbps	18	18	18
5725 – 5850MHz	802.11ac-VHT20	MCS0	18	18	18
	802.11ac-VHT40	MCS0	18	/	18
	802.11ac-VHT80	MCS0	/	15	/

Duty cycle

Please refer to the Appendix.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Unknown	Receptacle	Unknown	Unknown

External I/O Cable

Cable Description	Length (m)	From Port	То
Un-shielding Detachable USB Cable	1.0	EUT	Adapter
Un-shielding Detachable USB Cable	0.6	EUT	Charger
Unshielded Un-detachable AC Cable	1.5	Receptacle	LISN/AC Mains

Block Diagram of Test Setup

For Conducted Emissions:



For Radiated Emissions below 1GHz:



For Radiated Emissions above 1GHz:

	EUT	1.0 Meter
Non-Conductive Table 150 cm above Ground Plane	- 1.5 Meters	

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1307 ,§2.1093	RF Exposure Evaluation	Compliant
§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

Not Applicable: The EUT only supports the W52 and W58 bands.

TEST EQUIPMENT LIST

Manufacturer	Manufacturer Description		Serial Number	Calibration Date	Calibration Due Date
		Conducted Emis	sions Test		
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2024/01/16	2025/01/15
Rohde & Schwarz	LISN	ENV216	101613	2024/01/16	2025/01/15
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 Emiss	ions Test		
Rohde & Schwarz	EMI Test Receiver	ESR3	102455	2024/01/16	2025/01/15
Sonoma instrument	Pre-amplifier	310 N	186238	2024/05/21	2025/05/20
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2023/07/20	2026/07/19
Unknown	Cable	Chamber A Cable 1	N/A	2024/06/18	2025/06/17
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
Audix	EMI Test software	E3	19821b(V9)	NCR	NCR
Rohde & Schwarz	Spectrum Analyzer	FSV40	101605	2024/03/27	2025/03/26
COM-POWER	Pre-amplifier	PA-122	181919	2024/06/18	2025/06/17
The Electro- Mechanics Co.	Horn Antenna	3115	9107-3694	2024/06/06	2027/06/05
Unknown	RF Cable	KMSE	735	2024/06/18	2025/06/17
Unknown	RF Cable	UFA147	219661	2024/06/18	2025/06/17
SNSD	5G Band Reject filter	BSF5150- 5850MN-0899- 004	5G filter	2024/06/27	2025/06/26
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	2023/08/03	2024/08/02

Report No.: 2401T35202E-RF-00B

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
		RF Conducte	ed Test		
Tonscend	RF control Unit	JS0806-2	19D8060154	2023/09/06	2024/09/05
ANRITSU	Microwave peak power sensor	MA24418A	12622	2024/05/21	2025/05/20
Rohde & Schwarz	Spectrum Analyzer	FSV40	101473	2024/01/16	2025/01/15
Narda	20dB Attenuator	99899	0107	2023/07/04	2024/07/03
Narda	20dB Attenuator	99899	0107	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).

FCC §1.1307 (B) (3) & §2.1093- RF EXPOSURE EVALUATION

Applicable Standard

According to FCC §2.1093 and §1.1307(b) (3), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

Result: Compliant.

Please refer to SAR Report Number: 2402T35202E-20A.

FCC §15.203 - 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 one internal antennas which was permanently attached, and the maximum antenna gain[#] is 1.14dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliant

FCC §15.407 (b) (6) §15.207 (a) - CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207, §15.407(b) (6)

EUT Setup



Support units were connected to second LISM.
 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:

Factor = LISN VDF + 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:

Over Limit = Level – Limit Level = Read Level + Factor

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

Test Data

Environmental Conditions

Temperature:	24 °C
Relative Humidity:	58 %
ATM Pressure:	101 kPa

The testing was performed by Macy Shi on 2024-07-26.

EUT operation mode: Transmitting (Maximum output power mode, 802.11 ac20, 5745MHz)

Powered by Charger (worst case):

AC 120V/60 Hz, Line



Line	
2401T35202E	-RF
Macy.shi	
5G WIFI	
	: Line : 2401T35202E : Macy.shi : 5G WIFI

		Read		LISN	Cable	Limit	0ver		
	Freq	Level	Level	Factor	Loss	Line	Limit	Remark	
	MHz	dBuV		dB	dB		dB		
1	0.17	22.24	43.19	10.85	10.10	54.86	-11.67	Average	
2	0.17	31.91	52.86	10.85	10.10	64.86	-12.00	QP	
3	0.19	18.51	39.42	10.82	10.09	54.15	-14.73	Average	
4	0.19	29.11	50.02	10.82	10.09	64.15	-14.13	QP	
5	0.25	14.10	34.90	10.72	10.08	51.69	-16.79	Average	
6	0.25	24.28	45.08	10.72	10.08	61.69	-16.61	QP	
7	0.33	9.33	30.09	10.64	10.12	49.49	-19.40	Average	
8	0.33	18.90	39.66	10.64	10.12	59.49	-19.83	QP	
9	0.63	14.53	35.16	10.50	10.13	46.00	-10.84	Average	
10	0.63	15.72	36.35	10.50	10.13	56.00	-19.65	QP	
11	2.59	7.34	28.00	10.49	10.17	46.00	-18.00	Average	
12	2.59	13.35	34.01	10.49	10.17	56.00	-21.99	QP	

AC 120V/60 Hz, Neutral



Condition:	Neutral	
Project :	2401T35202E	-RF
tester :	Macy.shi	
Note :	5G WIFI	

		Read		LISN	Cable	Limit	0ver		
	Freq	Level	Level	Factor	Loss	Line	Limit	Remark	
	MHz	dBuV	dBuV	dB	dB	dBuV	dB		-
1	0.17	20.15	40.77	10.52	10.10	55.03	-14.26	Average	
2	0.17	32.19	52.81	10.52	10.10	65.03	-12.22	QP	
3	0.18	18.80	39.36	10.46	10.10	54.33	-14.97	Average	
4	0.18	31.40	51.96	10.46	10.10	64.33	-12.37	QP	
5	0.20	15.40	35.91	10.42	10.09	53.80	-17.89	Average	
6	0.20	31.20	51.71	10.42	10.09	63.80	-12.09	QP	
7	0.30	10.67	31.31	10.53	10.11	50.19	-18.88	Average	
8	0.30	21.48	42.12	10.53	10.11	60.19	-18.07	QP	
9	0.63	11.28	32.11	10.70	10.13	46.00	-13.89	Average	
10	0.63	17.90	38.73	10.70	10.13	56.00	-17.27	QP	
11	4.50	1.44	22.09	10.46	10.19	46.00	-23.91	Average	
12	4.50	10.99	31.64	10.46	10.19	56.00	-24.36	QP	

§15.205 & §15.209 & §15.407(B) - 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 5 MHz above or below 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	/	РК

1-40GHz:

Measurement	Duty cycle	RBW	Video B/W
РК	Any	1MHz	3 MHz
A X 7	>98%	1MHz	10 Hz
AV	<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.

All emissions under the average limit and under the noise floor have not recorded in the report.

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
	dBµV/m
E_{Meas}	is the field strength of the emission at the measurement distance, in $dB\mu V/m$
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 $20*\log(1/3) = -9.5$ 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:

Factor = Antenna Factor + Cable Loss - 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:

Over Limit = Level – Limit; Margin = Limit–Corrected Amplitude Level / Corrected Amplitude = Read Level + Factor

Test Data

Environmental Conditions

Temperature:	22~25.6 °C
Relative Humidity:	50~54 %
ATM Pressure:	101 kPa

The testing was performed by Anson Su on 2024-07-09 for below 1GHz and Dylan Yang and Zenos Qiao from 2024-06-29 to 2024-07-04 for above 1GHz.

EUT operation mode: Transmitting

Note: Pre-scan in the X, Y and Z axes of orientation, the worst case z-axis of orientation was recorded.

9 kHz-30MHz: (Maximum output power mode, 802.11 ac20, 5745MHz)

The amplitude of spurious emissions attenuated more than 20 dB below the limit was not recorded.

30 MHz–1 GHz: (*Maximum output power mode, 802.11 ac20, 5745MHz*)

Powered by Direct Charging (worst case):

Horizontal



Site :	Chamber A
Condition :	3m Horizontal
Project Number:	2401T35202E-RF
Test Mode :	5G WIFI
Tester :	Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	42.73	-13.26	26.72	13.46	40.00	-26.54	QP
2	81.57	-18.20	41.16	22.96	40.00	-17.04	QP
3	160.06	-13.97	42.74	28.77	43.50	-14.73	QP
4	348.94	-12.00	36.81	24.81	46.00	-21.19	QP
5	660.57	-6.61	26.89	20.28	46.00	-25.72	QP
6	829.67	-5.02	26.37	21.35	46.00	-24.65	QP





Site	:	Chamber A
Condition	:	3m Vertical
Project Number:	:	2401T35202E-RF
Test Mode	:	5G WIFI
Tester	:	Anson Su

			Read		Limit	Over	
	Freq	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	42.58	-14.49	39.02	24.53	40.00	-15.47	QP
2	82.21	-18.76	49.01	30.25	40.00	-9.75	QP
3	160.63	-14.20	40.68	26.48	43.50	-17.02	QP
4	349.56	-12.30	32.37	20.07	46.00	-25.93	QP
5	696.55	-6.60	25.82	19.22	46.00	-26.78	QP
6	826.41	-5.26	25.75	20.49	46.00	-25.51	QP

Above 1GHz:

5150-5250 MHz:

Enguarau	Receiver		Dolor	Factor	Corrected	Limit	Mangin
(MHz)	Reading (dBµV)	PK/AV	(H/V)	(dB/m)	Amplitude (dBµV/m)	(dBµV/m)	(dB)
			802.11a				
			5180MHz				
5148.51	63.68	РК	Н	2.71	66.39	74	-7.61
5148.51	45.52	AV	Н	2.71	48.23	54	-5.77
5149.43	62.27	PK	V	2.71	64.98	74	-9.02
5149.43	44.86	AV	V	2.71	47.57	54	-6.43
10360.00	46.05	РК	Н	13.07	59.12	68.2	-9.08
10360.00	46.32	РК	V	13.07	59.39	68.2	-8.81
			5200MHz		-		
10400.00	45.83	РК	Н	13.12	58.95	68.2	-9.25
10400.00	46.09	PK	V	13.12	59.21	68.2	-8.99
			5240MHz				
5359.95	55.93	PK	Н	3.07	59.00	74	-15.00
5359.95	42.02	AV	Н	3.07	45.09	54	-8.91
5355.40	55.48	РК	V	3.07	58.55	74	-15.45
5355.40	41.81	AV	V	3.07	44.88	54	-9.12
10480.00	45.57	РК	Н	13.07	58.64	68.2	-9.56
10480.00	45.85	PK	V	13.07	58.92	68.2	-9.28

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F	Rece	eiver	Delen	Easter	Corrected	T ::'4	M
Frequency (MHz)	Reading (dBµV)	PK/AV	Polar (H/V)	(dB/m)	Amplitude (dBµV/m)	(dBµV/m)	Margin (dB)
			802.11ac20				
			5180MHz				
5149.89	64.38	PK	Н	2.71	67.09	74	-6.91
5149.89	45.47	AV	Н	2.71	48.18	54	-5.82
5149.56	62.95	РК	V	2.71	65.66	74	-8.34
5149.56	44.84	AV	V	2.71	47.55	54	-6.45
10360.00	45.81	РК	Н	13.07	58.88	68.2	-9.32
10360.00	46.04	РК	V	13.07	59.11	68.2	-9.09
			5200MHz				
10400.00	45.55	РК	Н	13.12	58.67	68.2	-9.53
10400.00	45.79	РК	V	13.12	58.91	68.2	-9.29
			5240MHz				
5369.82	55.71	РК	Н	3.07	58.78	74	-15.22
5369.82	41.84	AV	Н	3.07	44.91	54	-9.09
5358.45	55.39	РК	V	3.07	58.46	74	-15.54
5358.45	41.63	AV	V	3.07	44.70	54	-9.30
10480.00	45.26	РК	Н	13.07	58.33	68.2	-9.87
10480.00	45.53	РК	V	13.07	58.60	68.2	-9.60

Report No.: 2401T35202E-RF-00B

T	Rece	eiver		Corrected	T • •		
Frequency (MHz)	Reading (dBµV)	PK/AV	Polar (H/V)	Factor (dB/m)	Amplitude (dBμV/m)	Limit (dBµV/m)	Margin (dB)
	· · · · · · · · · · · · · · · · · · ·		802.11ac40		·	·	
			5190MHz				
5149.84	67.09	РК	Н	2.71	69.80	74	-4.20
5149.84	47.36	AV	Н	2.71	50.07	54	-3.93
5149.67	65.64	РК	V	2.71	68.35	74	-5.65
5149.67	46.87	AV	V	2.71	49.58	54	-4.42
10380.00	45.04	РК	Н	13.09	58.13	68.2	-10.07
10380.00	45.29	РК	V	13.09	58.38	68.2	-9.82
			5230MHz				
5352.65	55.66	РК	Н	3.07	58.73	74	-15.27
5352.65	42.29	AV	Н	3.07	45.36	54	-8.64
5351.98	55.37	РК	V	3.07	58.44	74	-15.56
5351.98	42.08	AV	V	3.07	45.15	54	-8.85
10460.00	45.31	РК	Н	13.09	58.40	68.2	-9.80
10460.00	45.53	РК	V	13.09	58.62	68.2	-9.58
			802.11ac80				
			5210MHz				
5149.46	61.89	РК	Н	2.71	64.60	74	-9.40
5149.46	48.02	AV	Н	2.71	50.73	54	-3.27
5149.02	60.64	РК	V	2.71	63.35	74	-10.65
5149.02	47.47	AV	V	2.71	50.18	54	-3.82
5352.53	55.49	РК	Н	3.07	58.56	74	-15.44
5352.53	43.04	AV	Н	3.07	46.11	54	-7.89
5351.67	55.25	РК	V	3.07	58.32	74	-15.68
5351.67	42.77	AV	V	3.07	45.84	54	-8.16
10420.00	44.98	РК	Н	13.12	58.10	68.2	-10.10
10420.00	45.25	РК	V	13.12	58.37	68.2	-9.83

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5725-5850 MHz:

Encarronar	Rece	iver	Dolon	Fastar	Corrected	I imit	Mangin
(MHz)	Reading (dBµV)	PK/AV	(H/V)	(dB/m)	Amplitude (dBµV/m)	(dBµV/m)	(dB)
			802.11a				
			5745MHz				
5650.00	55.48	РК	Н	3.59	59.07	68.20	-9.13
5700.00	56.92	PK	Н	4.09	61.01	105.20	-44.19
5720.00	69.76	PK	Н	4.09	73.85	110.80	-36.95
5725.00	78.82	РК	Н	4.09	82.91	122.20	-39.29
5650.00	54.79	PK	V	3.59	58.38	68.20	-9.82
5700.00	56.53	PK	V	4.09	60.62	105.20	-44.58
5720.00	69.40	РК	V	4.09	73.49	110.80	-37.31
5725.00	78.05	PK	V	4.09	82.14	122.20	-40.06
11490.00	45.23	PK	Н	14.03	59.26	74	-14.74
11490.00	31.33	AV	Н	14.03	45.36	54	-8.64
11490.00	44.27	PK	V	14.03	58.30	74	-15.70
11490.00	31.25	AV	V	14.03	45.28	54	-8.72
	ſ	ſ	5785MHz	1			
11570.00	45.66	PK	Н	14.13	59.79	74	-14.21
11570.00	31.62	AV	Н	14.13	45.75	54	-8.25
11570.00	45.45	PK	V	14.13	59.58	74	-14.42
11570.00	31.57	AV	V	14.13	45.70	54	-8.30
			5825MHz				
5850.00	71.67	РК	Н	4.09	75.76	122.20	-46.44
5855.00	67.15	РК	Н	4.09	71.24	110.80	-39.56
5875.00	57.46	PK	Н	4.19	61.65	105.20	-43.55
5925.00	54.76	PK	Н	4.69	59.45	68.20	-8.75
5850.00	71.19	PK	V	4.09	75.28	122.20	-46.92
5855.00	66.52	PK	V	4.09	70.61	110.80	-40.19
5875.00	56.46	PK	V	4.19	60.65	105.20	-44.55
5925.00	54.74	РК	V	4.69	59.43	68.20	-8.77
11650.00	46.43	РК	Н	13.83	60.26	74	-13.74
11650.00	31.89	AV	Н	13.83	45.72	54	-8.28
11650.00	45.82	PK	V	13.83	59.65	74	-14.35
11650.00	31.72	AV	V	13.83	45.55	54	-8.45

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	Rece	eiver	Dalas	F actor	Corrected	T ••4	Maria
(MHz)	Reading (dBµV)	PK/AV	(H/V)	(dB/m)	Amplitude (dBµV/m)	(dBµV/m)	(dB)
	· · · · ·	-	802.11ac20				
			5745MHz				
5650.00	55.11	РК	Н	3.59	58.70	68.20	-9.50
5700.00	59.58	РК	Н	4.09	63.67	105.20	-41.53
5720.00	71.08	РК	Н	4.09	75.17	110.80	-35.63
5725.00	81.53	РК	Н	4.09	85.62	122.20	-36.58
5650.00	54.49	РК	V	3.59	58.08	68.20	-10.12
5700.00	59.11	РК	V	4.09	63.20	105.20	-42.00
5720.00	71.02	РК	V	4.09	75.11	110.80	-35.69
5725.00	81.01	РК	V	4.09	85.10	122.20	-37.10
11490.00	45.26	РК	Н	14.03	59.29	74	-14.71
11490.00	30.56	AV	Н	14.03	44.59	54	-9.41
11490.00	45.18	РК	V	14.03	59.21	74	-14.79
11490.00	30.42	AV	V	14.03	44.45	54	-9.55
			5785MHz				
11570.00	45.60	РК	Н	14.13	59.73	74	-14.27
11570.00	32.07	AV	Н	14.13	46.20	54	-7.80
11570.00	45.09	РК	V	14.13	59.22	74	-14.78
11570.00	31.61	AV	V	14.13	45.74	54	-8.26
			5825MHz				
5850.00	70.89	РК	Н	4.09	74.98	122.20	-47.22
5855.00	65.21	РК	Н	4.09	69.30	110.80	-41.50
5875.00	55.24	РК	Н	4.19	59.43	105.20	-45.77
5925.00	54.36	РК	Н	4.69	59.05	68.20	-9.15
5850.00	69.99	РК	V	4.09	74.08	122.20	-48.12
5855.00	64.38	РК	V	4.09	68.47	110.80	-42.33
5875.00	54.49	РК	V	4.19	58.68	105.20	-46.52
5925.00	53.90	РК	V	4.69	58.59	68.20	-9.61
11650.00	46.24	РК	Н	13.83	60.07	74	-13.93
11650.00	32.73	AV	Н	13.83	46.56	54	-7.44
11650.00	46.18	РК	V	13.83	60.01	74	-13.99
11650.00	32.25	AV	V	13.83	46.08	54	-7.92

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- F	Rece	iver		T	Corrected	.	
Frequency (MHz)	Reading (dBµV)	PK/AV	(H/V)	factor (dB/m)	Amplitude (dBμV/m)	Limit (dBµV/m)	Margin (dB)
			802.11ac40				
			5755MHz				
5650.00	55.45	РК	Н	3.59	59.04	68.20	-9.16
5700.00	66.54	РК	Н	4.09	70.63	105.20	-34.57
5720.00	79.74	РК	Н	4.09	83.83	110.80	-26.97
5725.00	81.87	РК	Н	4.09	85.96	122.20	-36.24
5650.00	54.73	РК	V	3.59	58.32	68.20	-9.88
5700.00	66.37	РК	V	4.09	70.46	105.20	-34.74
5720.00	78.97	РК	V	4.09	83.06	110.80	-27.74
5725.00	80.91	РК	V	4.09	85.00	122.20	-37.20
11510.00	45.23	РК	Н	14.23	59.46	74	-14.54
11510.00	31.52	AV	Н	14.23	45.75	54	-8.25
11510.00	45.15	РК	V	14.23	59.38	74	-14.62
11510.00	31.38	AV	V	14.23	45.61	54	-8.39
		<u>.</u>	5795MHz				
5850.00	65.15	РК	Н	4.09	69.24	122.20	-52.96
5855.00	60.57	РК	Н	4.09	64.66	110.80	-46.14
5875.00	55.06	РК	Н	4.19	59.25	105.20	-45.95
5925.00	53.85	РК	Н	4.69	58.54	68.20	-9.66
5850.00	64.91	РК	V	4.09	69.00	122.20	-53.20
5855.00	59.82	РК	V	4.09	63.91	110.80	-46.89
5875.00	54.84	РК	V	4.19	59.03	105.20	-46.17
5925.00	53.80	РК	V	4.69	58.49	68.20	-9.71
11590.00	46.78	РК	Н	14.13	60.91	74	-13.09
11590.00	32.29	AV	Н	14.13	46.42	54	-7.58
11590.00	46.54	РК	V	14.13	60.67	74	-13.33
11590.00	32.26	AV	V	14.13	46.39	54	-7.61

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P	Rece	iver		T (Corrected	T • •	
Frequency (MHz)	Reading (dBµV)	PK/AV	Polar (H/V)	Factor (dB/m)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
			802.11ac80				
			5775MHz				
5650.00	61.43	РК	Н	3.59	65.02	68.20	-3.18
5700.00	72.11	РК	Н	4.09	76.20	105.20	-29.00
5720.00	73.21	РК	Н	4.09	77.30	110.80	-33.50
5725.00	74.79	РК	Н	4.09	78.88	122.20	-43.32
5650.00	61.02	РК	V	3.59	64.61	68.20	-3.59
5700.00	71.57	РК	V	4.09	75.66	105.20	-29.54
5720.00	72.48	РК	V	4.09	76.57	110.80	-34.23
5725.00	74.05	РК	V	4.09	78.14	122.20	-44.06
5850.00	67.69	PK	Н	4.09	71.78	122.20	-50.42
5855.00	66.14	РК	Н	4.09	70.23	110.80	-40.57
5875.00	62.47	РК	Н	4.19	66.66	105.20	-38.54
5925.00	54.11	PK	Н	4.69	58.80	68.20	-9.40
5850.00	67.27	РК	V	4.09	71.36	122.20	-50.84
5855.00	65.82	РК	V	4.09	69.91	110.80	-40.89
5875.00	62.40	РК	V	4.19	66.59	105.20	-38.61
5925.00	53.24	РК	V	4.69	57.93	68.20	-10.27
11550.00	45.28	РК	Н	14.23	59.51	74	-14.49
11550.00	31.61	AV	Н	14.23	45.84	54	-8.16
11550.00	45.15	РК	V	14.23	59.38	74	-14.62
11550.00	31.54	AV	V	14.23	45.77	54	-8.23

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.

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Test plots for Band Edge Measurements (Radiated)









Test plots for Harmonic and Emissions Measurements: (802.11a, 5180MHz)




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Report No.: 2401T35202E-RF-00B









FCC §15.407(a), (e) - 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 (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).



Test Data

Environmental Conditions

Temperature:	24~25 °C	
Relative Humidity:	48~50 %	
ATM Pressure:	101 kPa	

The testing was performed by Tom Tan from 2024-06-23 to 2024-07-29.

EUT operation mode: Transmitting

Test Result: Compliant. Please refer to the Appendix.

FCC §15.407(a) - 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 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.



Attenuator

Test Data

Environmental Conditions

Temperature:	23~25 °C	
Relative Humidity:	49~56 %	
ATM Pressure:	101 kPa	

The testing was performed by Tom Tan from 2024-06-23 to 2024-07-12.

EUT operation mode: Transmitting

Test Result: Compliant. Please refer to the Appendix.

FCC §15.407(a) - 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 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 ≥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.



Test Data

Environmental Conditions

Temperature:	23~25 °C	
Relative Humidity:	49~56 %	
ATM Pressure:	101 kPa	

The testing was performed by Tom Tan from 2024-06-23 to 2024-07-12.

EUT operation mode: Transmitting

Test Result: Compliant. Please refer to the Appendix.

EUT PHOTOGRAPHS

Please refer to the attachment 2401T35202E-RF External photo and 2401T35202E-RF Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2401T35202E-RFC Test Setup photo.

APPENDIX

Appendix A: Emission Bandwidth

Test Result

Test Mode	Antenna	Channel	26db EBW [MHz]	Limit[MHz]	Verdict
11A Ant1		5180	20.04		
	Ant1	5200	20.40		
		5240	20.24		
11AC20SISO Ant1		5180	21.64		
	Ant1	5200	22.36		
		5240	23.04		
11AC40SISO	Ant1	5190	41.04		
		5230	40.96		
11AC80SISO	Ant1	5210	82.08		

Test Graphs



Report No.: 2401T35202E-RF-00B









Appendix B: Occupied channel bandwidth

Test Result

Test Mode	Antenna	Channel	OCB [MHz]	Limit[MHz]	Verdict	
11A	014	5180	17.423			
		5200	17.423			
		5240	17.423			
	Anti	5745	17.542			
		5785	17.463			
		5825	17.383			
		5180	18.262			
	Ant1	5200	18.422			
110000000		5240	18.342			
TIAC205150		5745	18.342			
		5785	18.262			
		5825	18.182			
11AC40SISO	Ant1	5190	36.763			
		5230	36.763			
		5755	36.683			
		5795	36.843			
11AC80SISO	Ant1	5210	75.764			
		5775	75.764			
Note: No transmitted signal in the 99% bandwidth extends into the U-NII-2A band and U-NII-2C band.						

Test Graphs



















Appendix C: Min emission bandwidth

Test Result

Test Mode	Antenna	Channel	6db EBW [MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	17.56	0.5	PASS
		5785	17.60	0.5	PASS
		5825	17.60	0.5	PASS
11AC20SISO	Ant1	5745	17.60	0.5	PASS
		5785	17.56	0.5	PASS
		5825	17.60	0.5	PASS
11AC40SISO	Ant1	5755	36.08	0.5	PASS
		5795	36.24	0.5	PASS
11AC80SISO	Ant1	5775	76.32	0.5	PASS

Test Graphs











Appendix D: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
		5180	16.28	≤23.98	PASS
	0	5200	16.19	≤23.98	PASS
		5240	15.81	≤23.98	PASS
IIA	Anti	5745	17.28	≤30.00	PASS
		5785	16.91	≤30.00	PASS
		5825	15.83	≤30.00	PASS
		5180	16.67	≤23.98	PASS
		5200	16.54	≤23.98	PASS
110000000	A mt1	5240	16.13	≤23.98	PASS
TIAC205150	Anti	5745	17.34	≤30.00	PASS
		5785	17.14	≤30.00	PASS
		5825	15.78	≤30.00	PASS
11AC40SISO	Ant1	5190	13.14	≤23.98	PASS
		5230	13.38	≤23.98	PASS
		5755	17.04	≤30.00	PASS
		5795	16.61	≤30.00	PASS
11AC80SISO	A	5210	10.40	≤23.98	PASS
	Anti	5775	13.23	≤30.00	PASS
Note: The device i	is a client device			•	•
Appendix E: Maximum power spectral density

Test Result

Test Mode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
		5180	5.98	≤11.00	PASS
		5200	5.81	≤11.00	PASS
110	A not 1	5240	5.46	≤11.00	PASS
IIA	Anti	5745	3.98	≤30.00	PASS
		5785	3.83	≤30.00	PASS
		5825	2.43	≤30.00	PASS
		5180	6.15	≤11.00	PASS
		5200	6.08	≤11.00	PASS
110000000	A set 1	5240	5.52	≤11.00	PASS
1140205150	Anti	5745	4.03	≤30.00	PASS
		5785	3.83	≤30.00	PASS
		5825	2.49	≤30.00	PASS
		5190	-0.44	≤11.00	PASS
1100400100	A set 1	5230	0.01	≤11.00	PASS
1140405150	Anti	5755	0.97	≤30.00	PASS
		5795	0.49	≤30.00	PASS
1140000100	A not 1	5210	-6.14	≤11.00	PASS
TACOUSISU	Anti	5775	-6.12	≤30.00	PASS
Note:					

1. The device is a client device.

2. The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

Test Graphs



















Report No.: 2401T35202E-RF-00B

Appendix F: Duty Cycle

Test Result

Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[Hz]	VBW Setting [Hz]
		5180	100.00	100.00	100.00	/	10
		5200	100.00	100.00	100.00	/	10
110	Apt1	5240	100.00	100.00	100.00	/	10
IIA IIA	Anti	5745	100.00	100.00	100.00	/	10
		5785	100.00	100.00	100.00	/	10
		5825	100.00	100.00	100.00	/	10
		5180	100.00	100.00	100.00	/	10
		5200	100.00	100.00	100.00	/	10
1100205150	Apt1	5240	100.00	100.00	100.00	/	10
TIA0203130	Anti	5745	100.00	100.00	100.00	/	10
		5785	100.00	100.00	100.00	/	10
		5825	100.00	100.00	100.00	/	10
		5190	100.00	100.00	100.00	/	10
1140409190	Apt1	5230	100.00	100.00	100.00	/	10
11AC403130	Anti	5755	100.00	100.00	100.00	/	10
		5795	100.00	100.00	100.00	/	10
1140905150	Apt1	5210	100.00	100.00	100.00	/	10
11AC003130	AIILI	5775	100.00	100.00	100.00	/	10

Test Graphs



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