



FCC PART 15.247 TEST REPORT

For

Xiamen Milesight IoT Co., Ltd.

Building C09, Software Park Phase III, Xiamen 361024, Fujian, China

FCC ID: 2AYHY-IPCXX21

Report Type: Original Report	Product Name: IP camera
Report Number:	2407W89441E-RF-01
Report Date:	2024-09-12
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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	2407W89441E-RF-01	R1V1	2024-09-12	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product Name:	IP camera
Tested Model:	MS-C5321-FPE
Multiple Model(s):	NC5321-FPE, MS-C5321-FLPE, NC5321-FLPE, MS-C5321-FIPE, NC5321-FIPE, MS-C5321-FILPE, NC5321-FILPE, TS5321-FPE, NT5321-FPE, TS5321-FIPE, NT5321-FIPE
Power Supply:	DC 12V from Adapter or DC 48V from PoE
Maximum Conducted Average Output Power:	15.21dBm
Frequency Range:	2412-2462MHz
Modulation Technique:	DSSS, OFDM
Antenna Type:	PCB Antenna
★Maximum Antenna Gain:	5.44dBi
EUT Received Status:	Good
<i>Note:</i> 1. The Maximum Antenna Gain was declared by manufacturer. 2. The model difference is model name and color, the rest are the same. 3. All measurement and test data in this report was gathered from production sample serial number: 2POI-1 Assigned by the BACL(Xiamen). The EUT supplied by the applicant was received on 2024-08-08)	

Objective

This report is prepared on behalf of *Xiamen Milesight IoT Co., Ltd.* in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission's rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 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 KDB 558074 D01 15.247 Meas Guidance v05r02.

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

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Xiamen) to collect test data is located on the Unit 102, No. 902 Meifeng South Road, Binhai West Avenue, Science and Technology Innovation Park, Torch High tech Zone XiaMen.

Bay Area Compliance Laboratories Corp. (Xiamen) Lab is accredited to ISO/IEC 17025 by A2LA (Certificate Number: 7134.01) and the lab has been recognized as the FCC accredited lab under the KDB 974614 D01, the FCC Designation No. : CN1384.

Measurement Uncertainty

Item		U_{lab}
Conducted Emission	150kHz-30MHz	2.33 dB
Radiated Emission	9kHz-30MHz	2.59 dB
	30MHz~200MHz	4.38 dB
	200MHz~1GHz	4.50 dB
	1GHz~6GHz	4.58 dB
	6GHz-18GHz	5.43 dB
	18GHz~26.5GHz	5.47 dB
Occupied Channel Bandwidth		0.053kHz
Transmitter Conducted Power(Conducted RF power)		0.624 dB
Power Spectral Density		0.61dB
Duty Cycle		1%
Temperature		1°C
Humidity		5%
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.

SYSTEM TEST CONFIGURATION

Test Mode and Voltage

The system was configured for testing in a typical mode (as normally used by a typical user).	
Test mode:	Transmitting
Test voltage:	DC 48V from POE or DC 12V from Adapter
Remark:	During all emission tests, the EUT was configured to measure its highest possible emission level and the worst case's test data was presented in this test report.

Description of Test Configuration

For 802.11b, 802.11g, 802.11n-ht20, 802.11n-ht40 mode, 11 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432	/	/
6	2437	/	/
7	2442	/	/

For 802.11b, 802.11g, 802.11n-ht20 mode, EUT was tested with Channel 1, 6 and 11.

For 802.11n-ht40 mode, EUT was tested with Channel 3, 6 and 9.

Equipment Modifications

No modification was made to the EUT tested.

★EUT Exercise Software

Wi-Fi test in the engineer mode.

RF Test Tool: SecureCRTPortable.exe

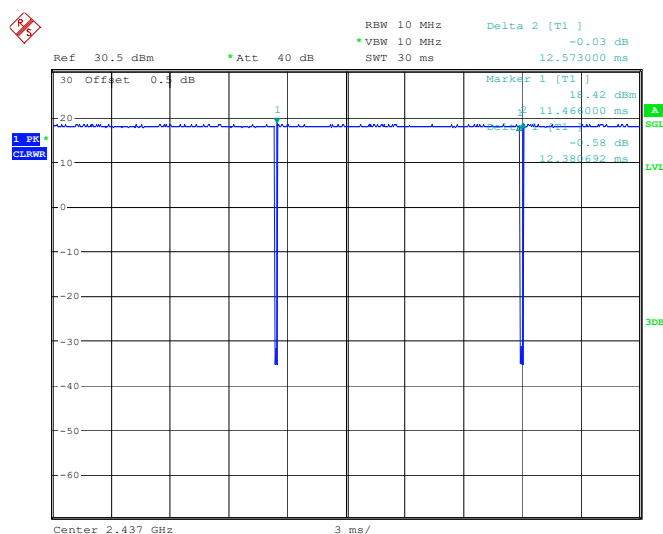
The device was tested with the worst case was performed as below:

Mode	Data rate	Power level		
		Low channel	Middle channel	High channel
802.11b	1 Mbps	36	36	36
802.11g	6 Mbps	44	44	44
802.11n-ht20	MCS0	44	44	44
802.11n-ht40	MCS0	42	42	42

Pre-scan with all the data rates, the above data rate is the worst case for Wi-Fi test.

Duty cycle

Modes	Ton (ms)	Ton + off (ms)	Duty cycle (%)	1/T (Hz)	Duty Factor (dB)	VBW Setting (kHz)
802.11b	12.381	12.573	98.47	81	/	0.01
802.11g	2.064	2.221	92.91	485	0.32	0.50
802.11nHT20	1.921	2.078	92.42	521	0.34	1.00
802.11nHT40	0.940	1.070	87.86	1064	0.56	2.00

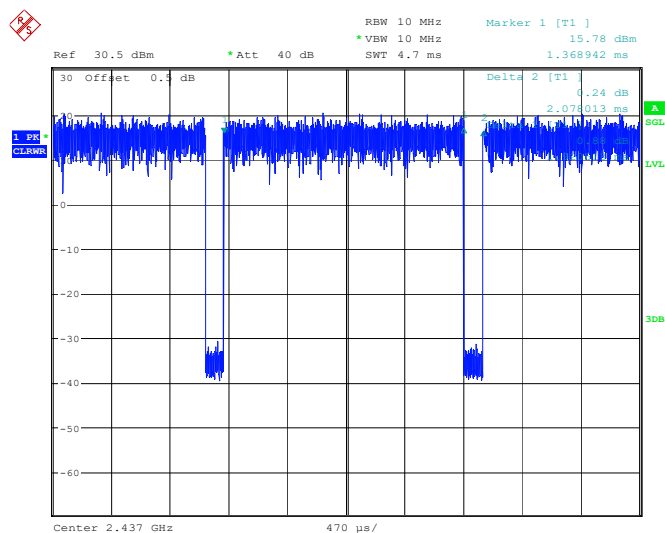
802.11b Middle Channel

ProjectNo.:2407W89441E-RF Tester:Stein Peng
 Date: 14.AUG.2024 10:00:26

The screenshot shows a Spectrum Analyzer interface with the following details:

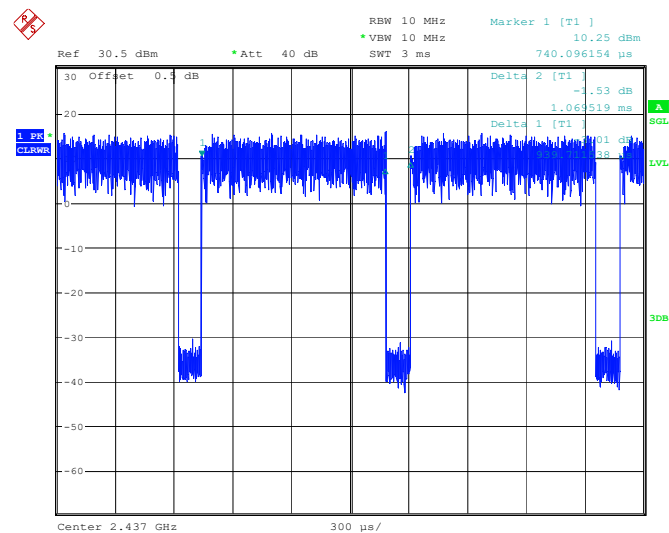
- Top Panel:**
 - RBW 10 MHz
 - Marker 1 [T1]
 - * VBW 10 MHz
 - 16.03 dBm
 - SWT 4.7 ms
 - 1.188173 ms
- Left Panel:**
 - Ref 30.5 dBm
 - * Att 40 dB
 - 1 ps
 - CLAMP
- Main Display:**
 - Offset 0.0 dB
 - Delta 2 [T1]
 - 0.02 dB
 - 2.22122 dB
 - 1.188173 ms
 - 16.03 dBm
 - 1.188173 ms
- Bottom Panel:**
 - Center 2.437 GHz
 - 470 ps/

802.11nHT20 Middle Channel



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802.11nHT40 Middle Channel



ProjectNo.:2407W89441E-RF Tester:Stein Peng
Date: 14.AUG.2024 10:10:50

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
SHENZHEN FUJIA APPLIANCE CO.,LTD.	SWITCHING ADAPTOR	FJ-SW126K 1201000DU	Unknown
RUIJIE NETWORKS CO.,LTD	Single-port PoE Power Adapter	RG-E-130(GE)	G1QT7S400747A
Unknown	alertor	Unknown	Unknown
Unknown	alertor	Unknown	Unknown

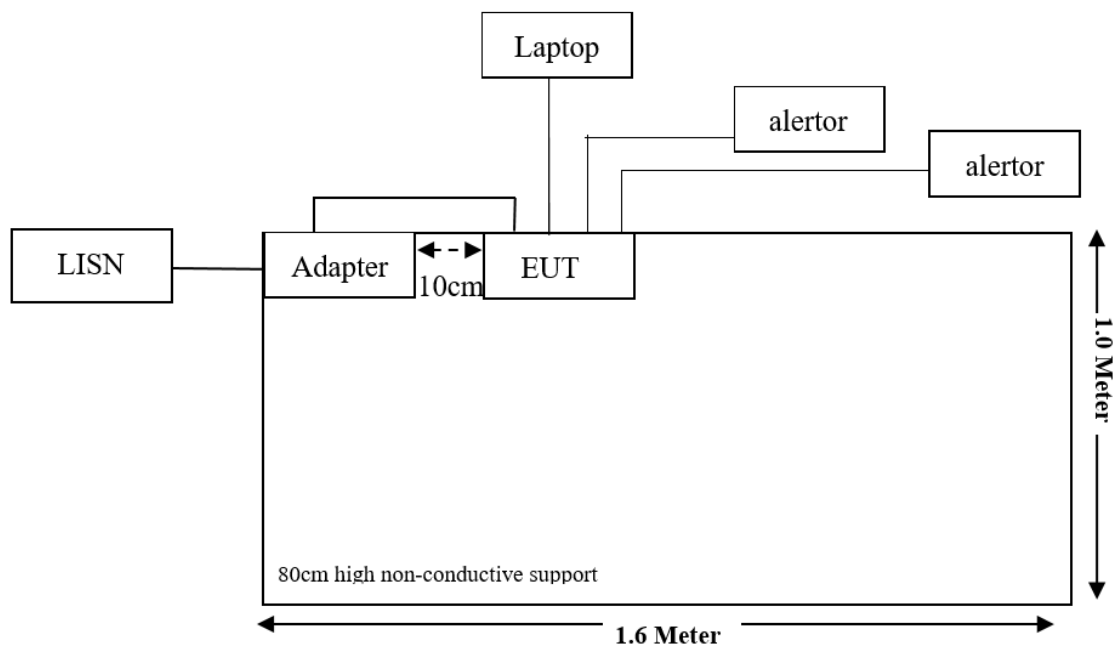
External I/O Cable

Cable Description	Length (m)	From Port	To
Power Cable	1	Adapter	EUT
Network cable	1	EUT	POE
Load cable	10	alertor	EUT
Load cable	10	alertor	EUT

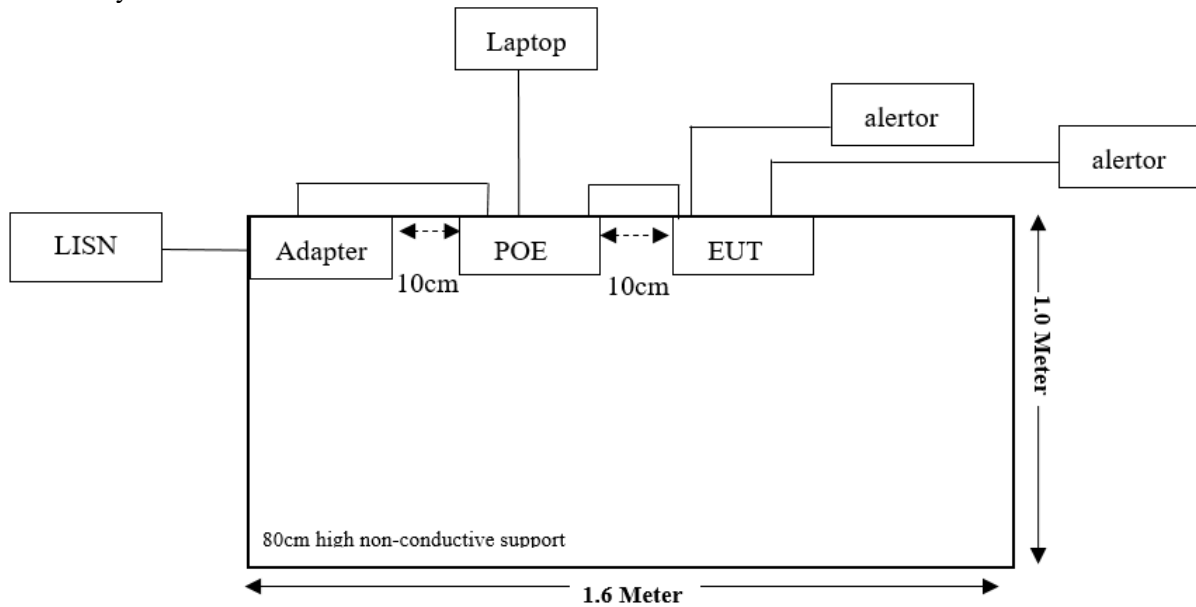
Block Diagram of Test Setup

Conducted Emission:

Powered by Adapter



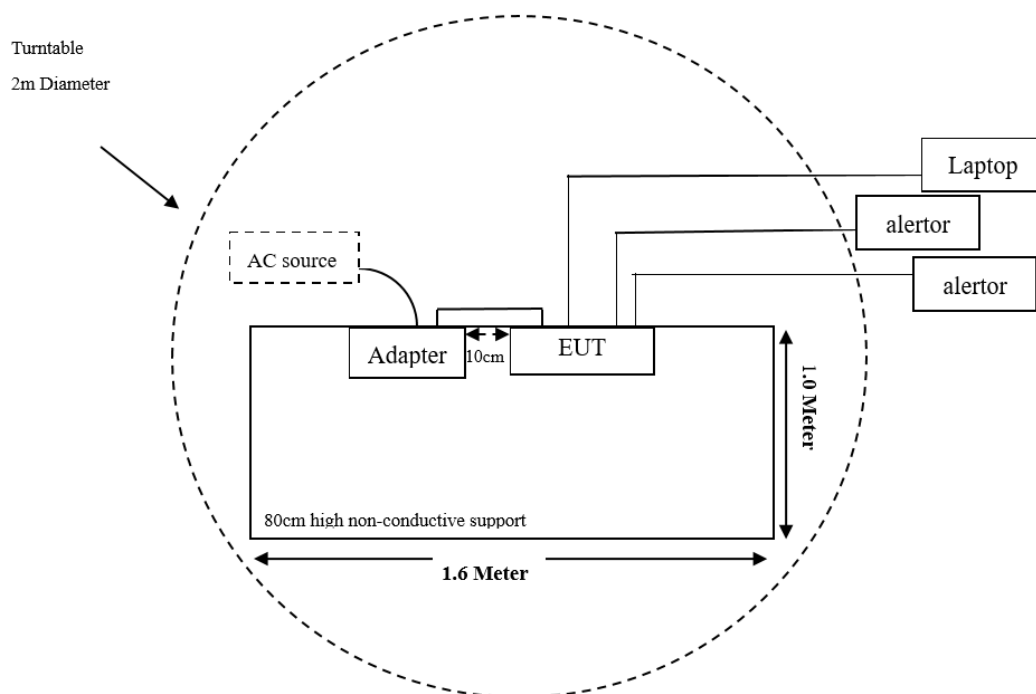
Powered by PoE



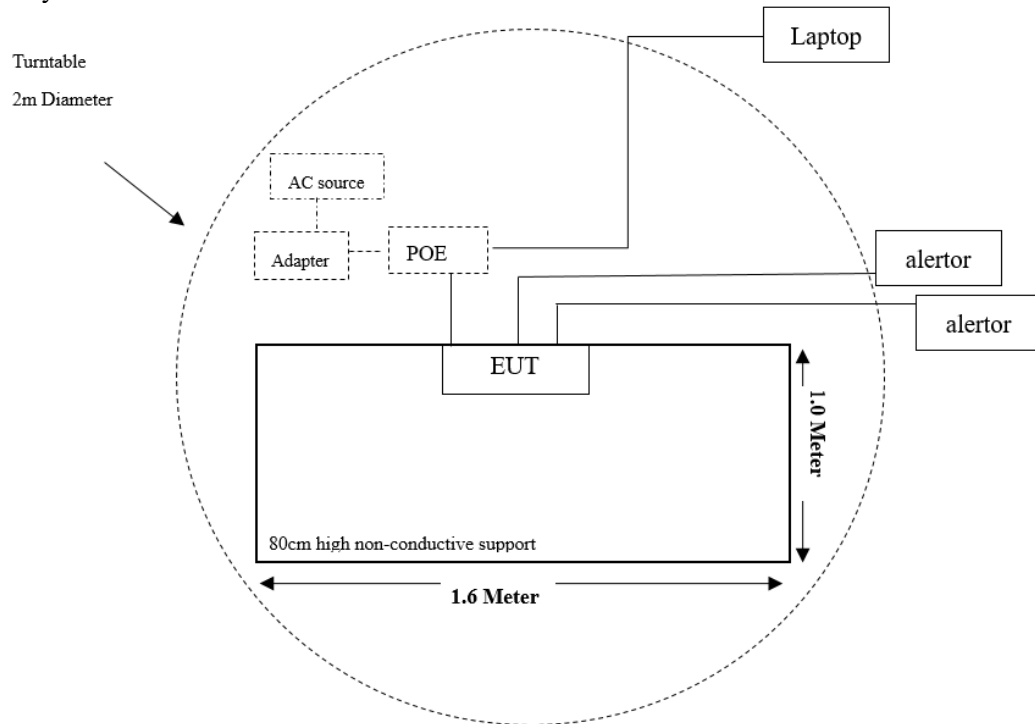
Radiated Emission:

Below 1GHz

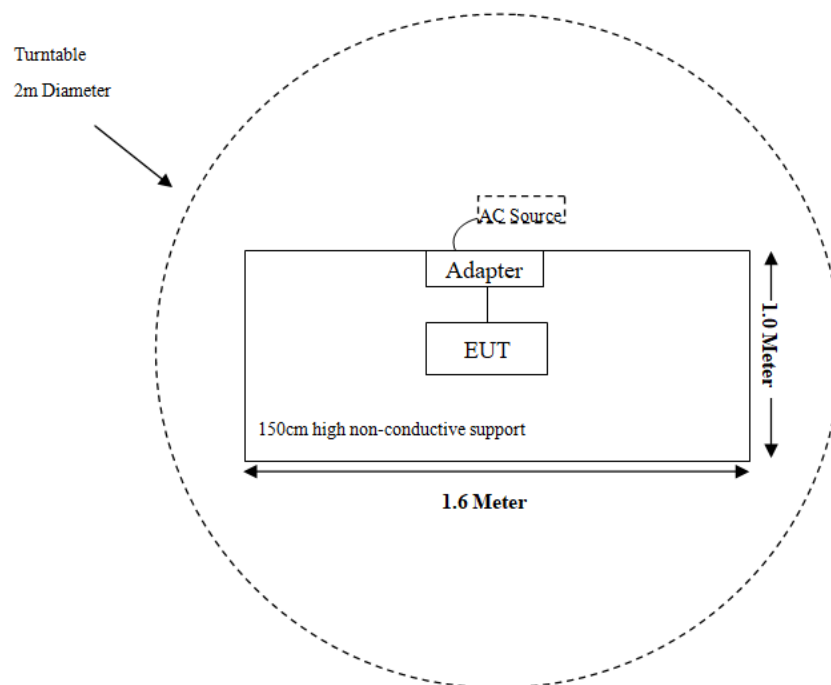
Powered by Adapter



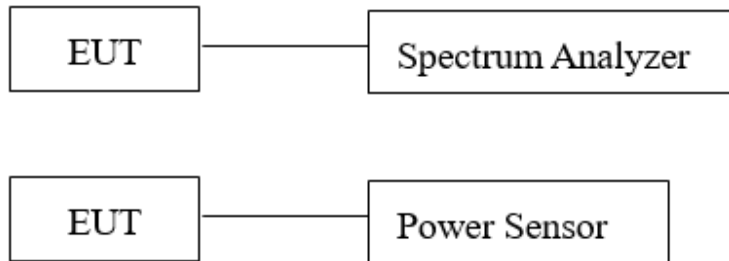
Powered by PoE



Above 1GHz



RF



Note: The cable assembly insertion loss of 0.5dB was entered as an offset in the power meter.(Actual cable loss was unavailable at the time of testing, therefore loss of 0.5dB was assumed as worst case.) This was later verified to be true by laboratory.

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.207 (a)	AC Line Conducted Emissions	Compliance
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliance
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliance
§15.247(b)(3)	Maximum Conducted Output Power	Compliance
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliance
§15.247(e)	Power Spectral Density	Compliance

TEST EQUIPMENT LIST

Test Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions					
EMI Test Receiver	Rohde & Schwarz	ESR	103105	2024/03/29	2025/03/28
LISN	Rohde & Schwarz	ENV216	100129	2024/03/29	2025/03/28
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	0357.8810.54	2024/03/29	2025/03/28
Coaxial Cable	XINHANGWEIBO	XH400T-N-4M	CC001	2024/03/29	2025/03/28
Test Software	Audix	E3	18621a	N/A	N/A
Radiated Emissions Below 1GHz					
EMI Test Receiver	Rohde & Schwarz	ESR	103103	2024/03/29	2025/03/28
Loop Antenna	Rohde & Schwarz	HFH2-Z2	830749/001	2023/07/27	2026/07/26
Antenna	Sunol Sciences	JB6	A122022-5	2023/07/27	2026/07/26
Amplifier	Sonoma	310B	120903	2024/03/29	2025/03/28
Coaxial Cable	XINHANGWEIBO	XH400T-N-4M	CC002	2024/03/29	2025/03/28
Coaxial Cable	XINHANGWEIBO	XH460B-N-2M	CC006	2024/03/29	2025/03/28
Coaxial Cable	XINHANGWEIBO	XH460B-N-12M	CC007	2024/03/29	2025/03/28
Coaxial Cable	XINHANGWEIBO	HFH2-CC	335.3609	2024/03/29	2025/03/28
Test Software	Audix	E3	18621a	N/A	N/A
Radiated Emissions Above 1 GHz					
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102051	2024/03/29	2025/03/28
Filter Switch Unit	Decentest	DT7220FSU	DS79904	2024/02/23	2025/02/22
Multiplex Switch Test Control Set	Decentest	DT7220SCU	DS79901	2024/02/23	2025/02/22
Double Ridge Guide Horn Antenna	A.H.Systems	SAS-571	1980	2023/07/28	2026/07/27
Preamplifier	A.H.Systems	PAM-0118P	489	2024/03/29	2025/03/28
Coaxial Cable	XINHANGWEIBO	XH800A-N-6M	CC003	2024/03/29	2025/03/28
Coaxial Cable	XINHANGWEIBO	XH800A-N-1M	CC005	2024/03/29	2025/03/28
Horn Antenna	EMCO	3116	9407-2232	2023/07/31	2026/07/30
Preamplifier	A.H.Systems	PAM-1840	200	2024/03/29	2025/03/28
Coaxial Cable	XINHANGWEIBO	XH360A-2.92-3M	CC008	2024/03/29	2025/03/28
Coaxial Cable	XINHANGWEIBO	XH360A-2.92-1M	CC009	2024/03/29	2025/03/28
Test Software	Audix	E3	18621a	N/A	N/A
RF Conducted Test					
Spectrum Analyzer	Rohde & Schwarz	FSU	100405	2024/03/29	2025/03/28
Coaxial Cable	N/A	N/A	N/A	Each time	N/A
Power Sensor	HP	8481A	PS20240325	2024/03/29	2025/03/28
Power meter	Agilent	E4419B	MY45100315	2024/03/29	2025/03/28

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

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to § 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 user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.
- c. Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT has one PCB antenna arrangement for WIFI, which was permanently attached and the antenna gain is 5.44 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

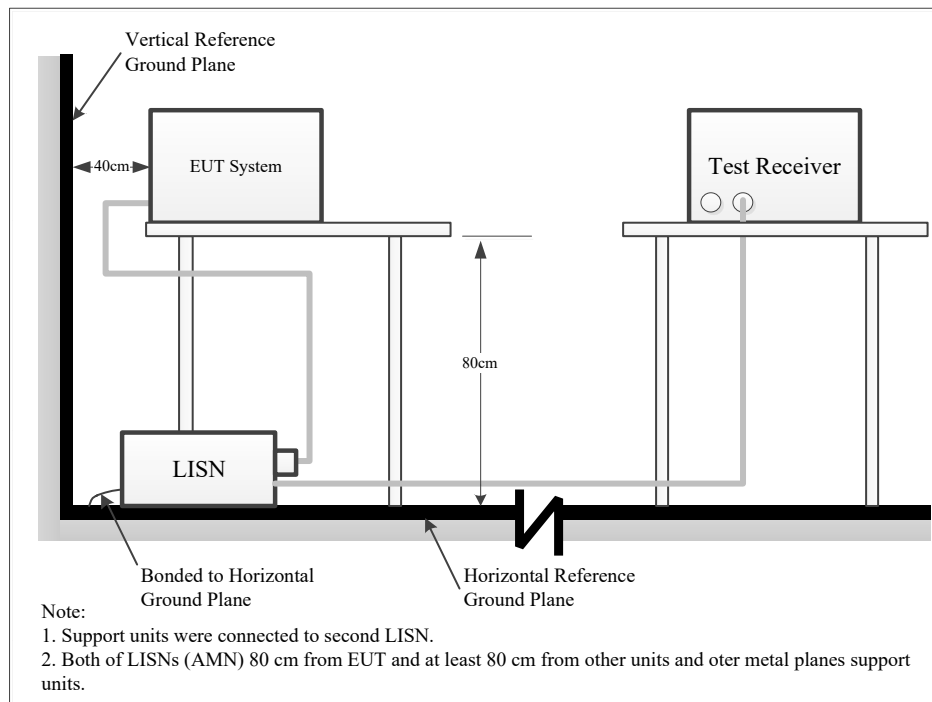
Result: Compliance

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207

EUT Setup



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	RBW	VBW	Detector
150 kHz – 30 MHz	9 kHz	30 kHz	QP/AV

Test Procedure

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

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

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

Result & Margin Calculation

The Level is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation from the Meter Reading. The basic equation is as follows:

$$\text{Factor (dB)} = \text{LISN VDF (dB)} + \text{Cable Loss (dB)} + \text{Transient Limiter Attenuation (dB)}$$

$$\text{Result (dB}\mu\text{V)} = \text{Reading (dB}\mu\text{V)} + \text{Factor (dB)}$$

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

$$\text{Margin (dB)} = \text{Limit (dB}\mu\text{V)} - \text{Result (dB}\mu\text{V)}$$

Test Data

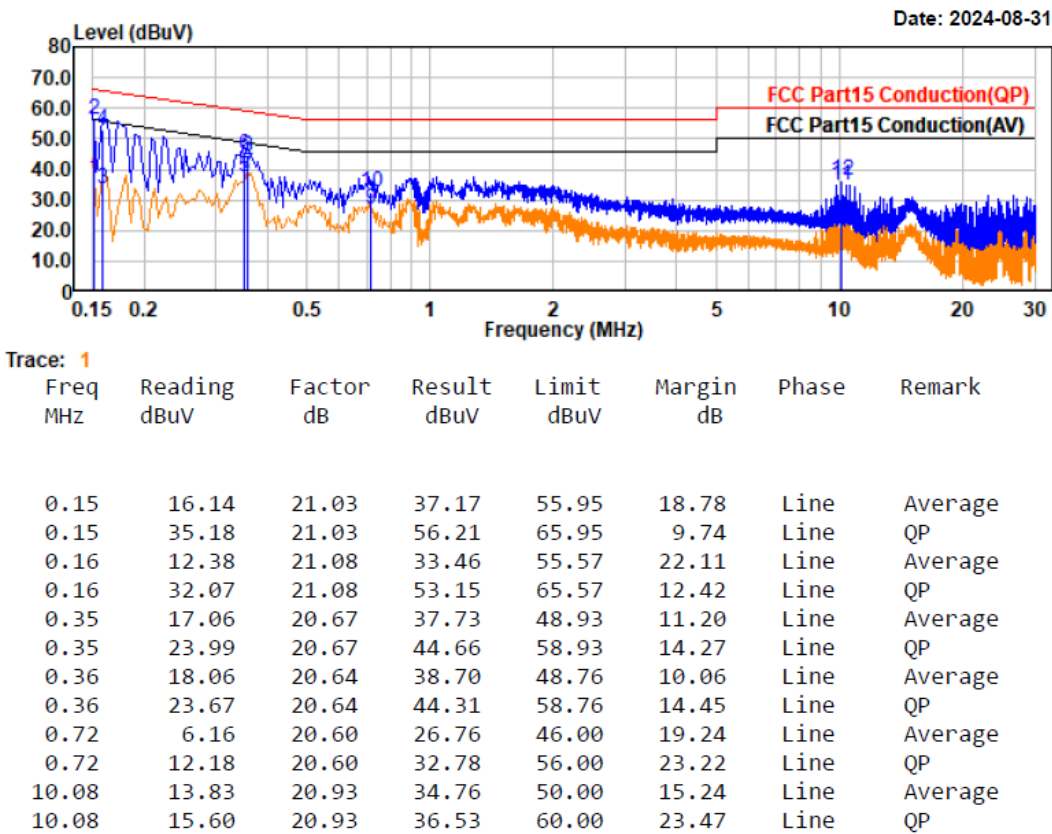
Temperature:	22.4°C
Relative Humidity:	56%
ATM Pressure:	101.1kPa
Test Date:	2024-08-31
Test Engineer:	Spike Gao

EUT operation mode: Transmitting in Wifi 802.11b high channel (worst case)

For adapter power supply:

Project No.: 2407W89441E-RF
Test Mode: 11b-2462
EUT Model: MS-C5321-FPE

Temp/Humi/ATM: 22.4°C/56%/101.1kPa
Tested by: Spike Gao
Power Source: AC 120V/60Hz



Project No.: 2407W89441E-RF

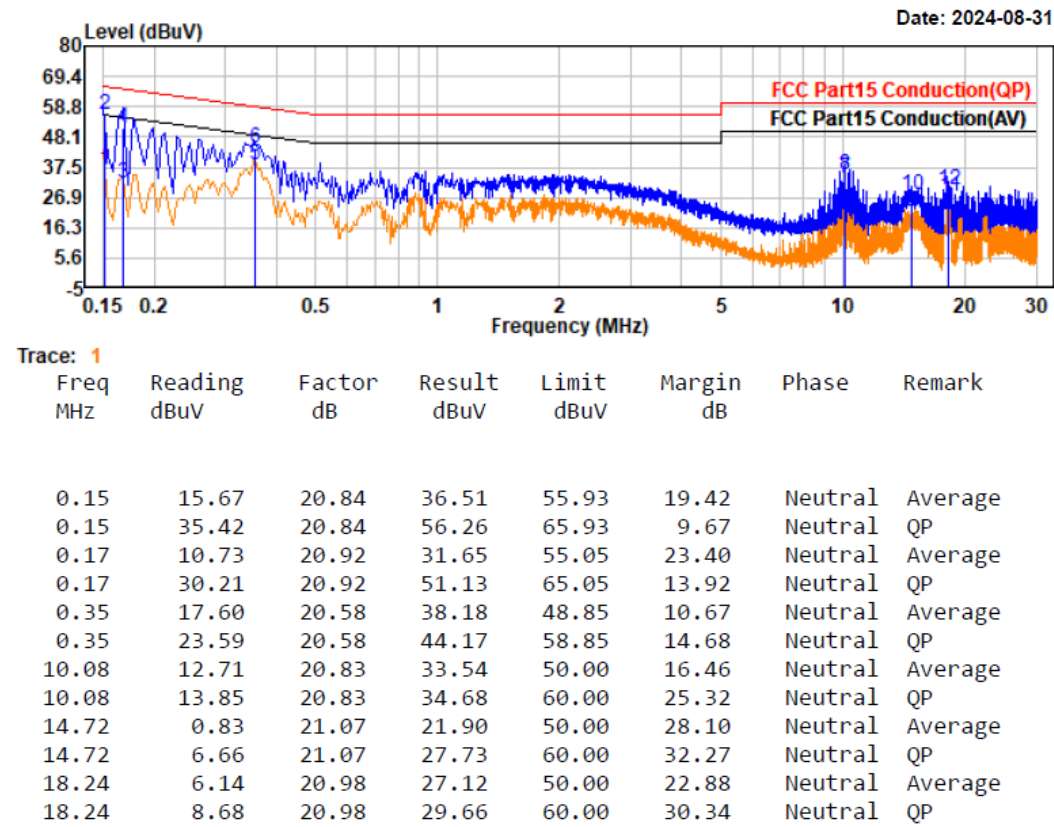
Test Mode: 11b-2462

EUT Model: MS-C5321-FPE

Temp/Humi/ATM: 22.4°C/56%/101.1kPa

Tested by: Spike Gao

Power Source: AC 120V/60Hz



For PoE power supply:

Project No.: 2407W89441E-RF

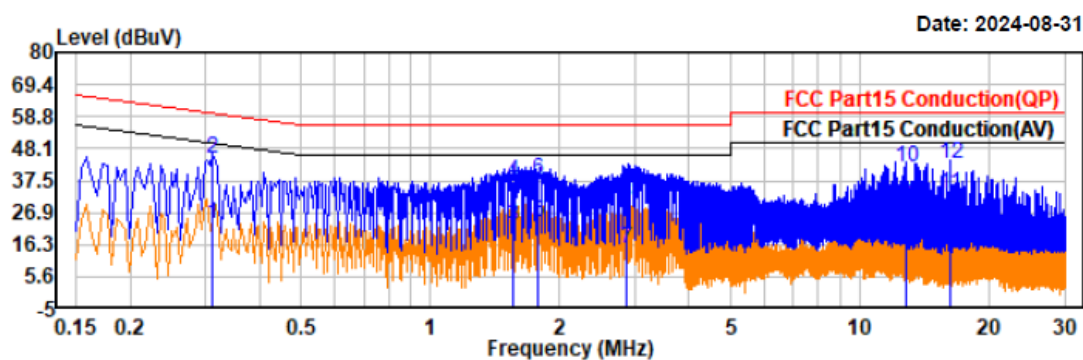
Test Mode: 11b-2462

EUT Model: MS-C5321-FPE

Temp/Humi/ATM: 22.4°C/56%/101.1kPa

Tested by: Spike Gao

Power Source: DC 48V from POE



Trace: 1

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.31	2.39	20.80	23.19	49.96	26.77	Line	Average
0.31	23.94	20.80	44.74	59.96	15.22	Line	QP
1.57	1.74	20.89	22.63	46.00	23.37	Line	Average
1.57	16.38	20.89	37.27	56.00	18.73	Line	QP
1.79	2.55	20.97	23.52	46.00	22.48	Line	Average
1.79	16.78	20.97	37.75	56.00	18.25	Line	QP
2.86	-6.15	20.99	14.84	46.00	31.16	Line	Average
2.86	9.00	20.99	29.99	56.00	26.01	Line	QP
12.75	8.59	21.02	29.61	50.00	20.39	Line	Average
12.75	20.80	21.02	41.82	60.00	18.18	Line	QP
16.23	12.17	21.09	33.26	50.00	16.74	Line	Average
16.23	21.89	21.09	42.98	60.00	17.02	Line	QP

Project No.: 2407W89441E-RF

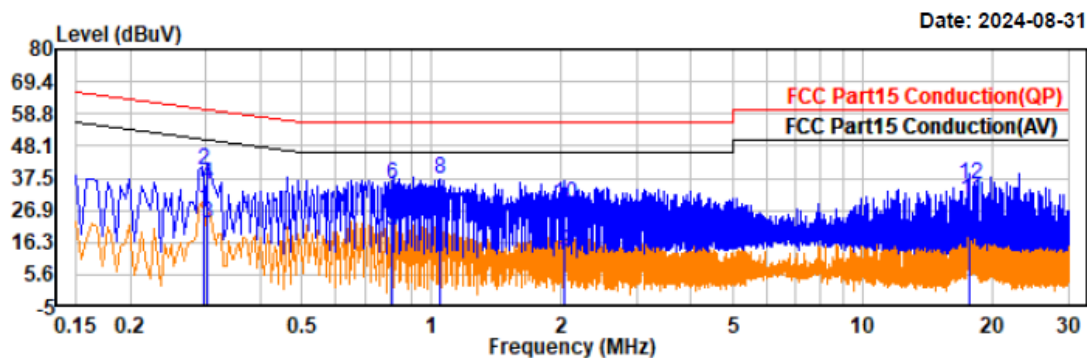
Test Mode: 11b-2462

EUT Model: MS-C5321-FPE

Temp/Humi/ATM: 22.4°C/56%/101.1kPa

Tested by: Spike Gao

Power Source: DC 48V from POE

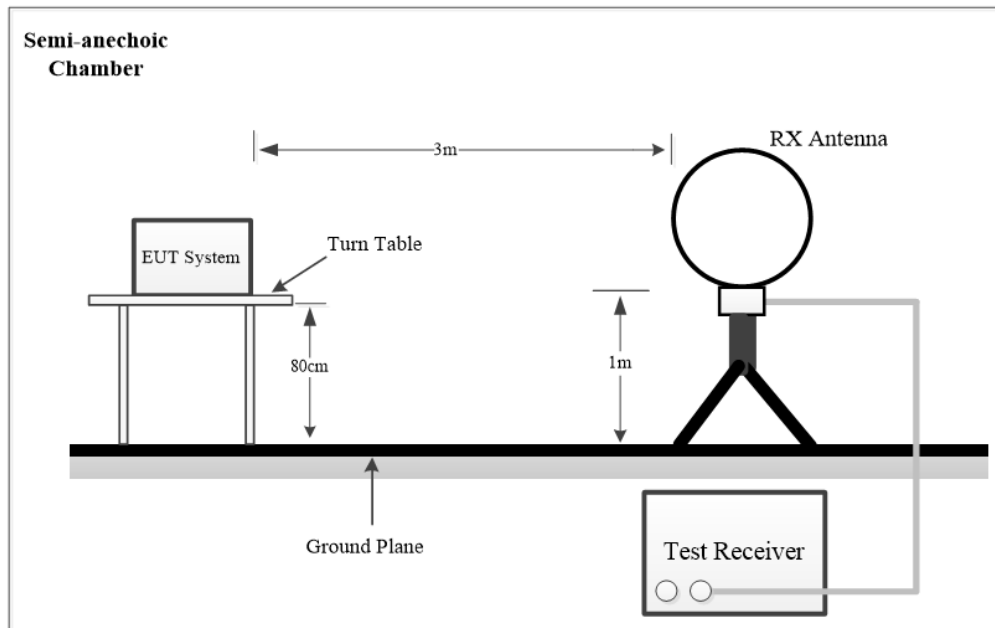
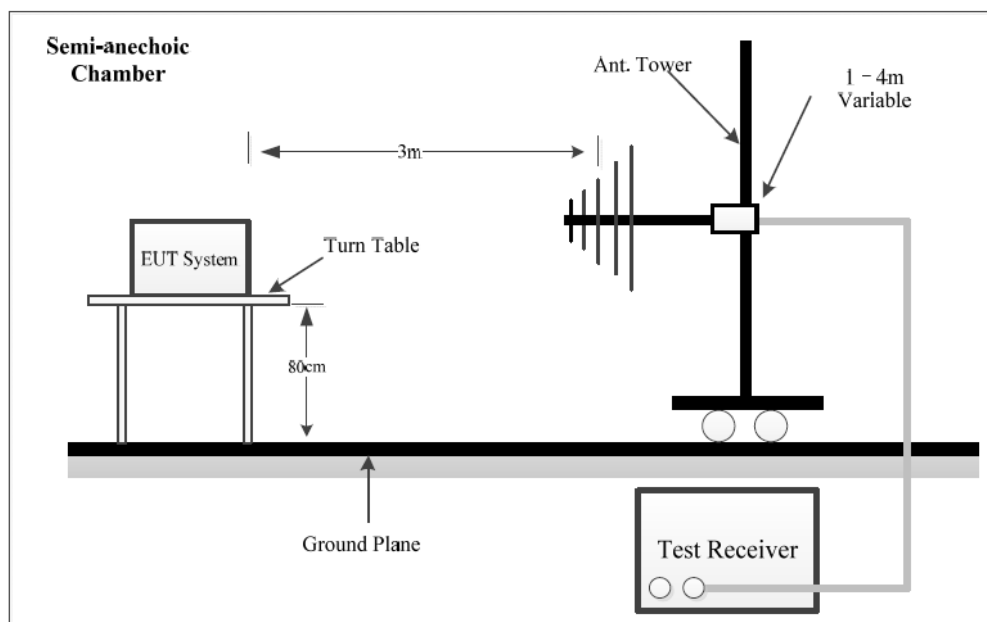


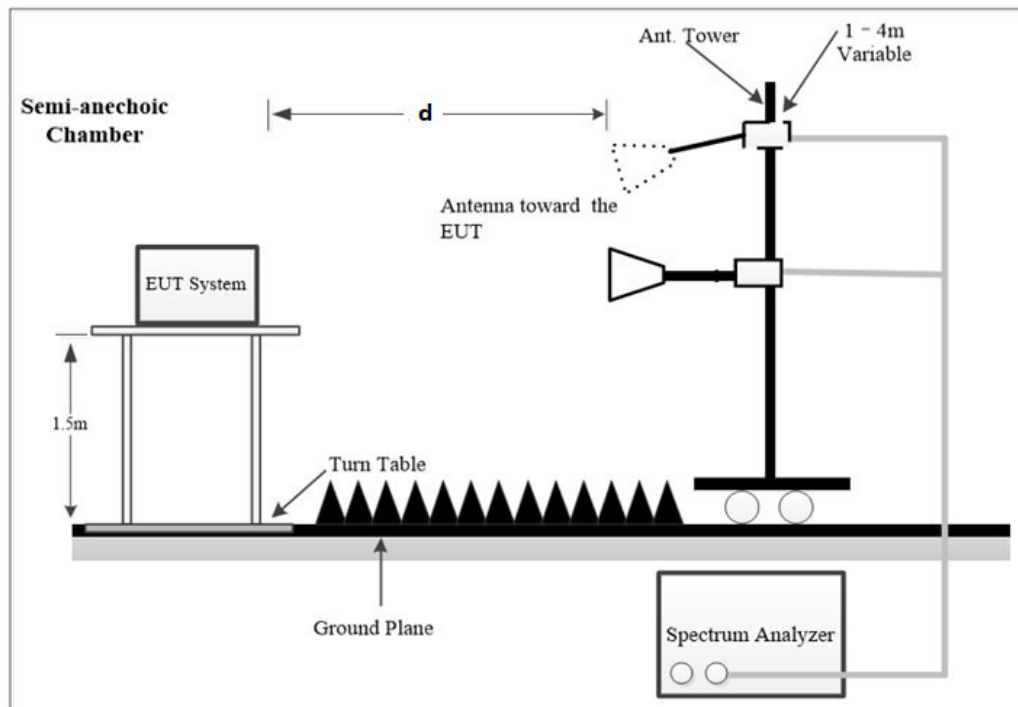
Trace: 1

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.30	6.50	20.74	27.24	50.37	23.13	Neutral	Average
0.30	19.40	20.74	40.14	60.37	20.23	Neutral	QP
0.30	1.93	20.72	22.65	50.20	27.55	Neutral	Average
0.30	14.79	20.72	35.51	60.20	24.69	Neutral	QP
0.81	-0.17	20.53	20.36	46.00	25.64	Neutral	Average
0.81	15.05	20.53	35.58	56.00	20.42	Neutral	QP
1.05	1.15	20.75	21.90	46.00	24.10	Neutral	Average
1.05	16.43	20.75	37.18	56.00	18.82	Neutral	QP
2.04	-7.79	21.12	13.33	46.00	32.67	Neutral	Average
2.04	7.86	21.12	28.98	56.00	27.02	Neutral	QP
17.70	9.02	21.00	30.02	50.00	19.98	Neutral	Average
17.70	14.43	21.00	35.43	60.00	24.57	Neutral	QP

FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS**Applicable Standard**

FCC §15.247 (d); §15.209; §15.205;

EUT Setup**9 kHz-30MHz:****30MHz -1 GHz:**

Above 1GHz:

The radiated emission tests using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

NOTE:

d is testing distance;

For Radiated Emission test (1GHz-18GHz) and Bandedge Emission test, which was performed at 3 m distance.

For Radiated Emission test (18GHz-25GHz), which was performed at 1.0 m distance, according to ANSI C63.10-2013, the test result shall be extrapolated to the specified distance using an extrapolation Factor of 20dB/decade from 3m to 1.0m.

Distance extrapolation Factor = $20 \log (\text{specific distance } [3\text{m}] / \text{test distance } [1.0\text{m}]) \text{ dB} = 9.54 \text{ dB}$

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 25 GHz.

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

Below 1GHz:

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

Above 1GHz:

Pre-scan:

Duty Cycle	RBW	VBW	Measurement	Detector
Any	1MHz	3MHz	PK	PK
>98%	1MHz	5kHz	AV	PK
<98%	1MHz	1/T, not less than 5kHz	AV	PK

Final measurement for emission identified during the pre-scan:

Duty Cycle	RBW	VBW	Measurement	Detector
Any	1MHz	3MHz	PK	PK
>98%	1MHz	10Hz	AV	PK
<98%	1MHz	1/T	AV	PK

Test Procedure

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

For each measurement antenna alignment, the EUT shall be rotated through 0° to 360° on a turntable. 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, then the following statement shall be made: “all emissions were greater than 20 dB below the limit.”

Below 1GHz, if the measured peak level of the emissions that the measuring receiver reading level plus corrected factor is at least 6 dB below the QP emission limit, there's no need to record the measured QP level of the emissions in the report.

Above 1GHz, if the measured peak level of the emissions that the measuring receiver reading level plus corrected factor is below the AV emission limit, there's no need to record the measured AV level of the emissions in the report.

Result & Margin Calculation

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

For 9 kHz to 18GHz Radiated emission test

$$\text{Factor (dB/m)} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} - \text{Amplifier Gain (dB)}$$

For 18GHz to 25GHz Radiated emission test and Bandedge emissions test

$$\text{Factor (dB/m)} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} - \text{Amplifier Gain (dB)} - \text{Extrapolation factor (dB)}$$

$$\text{Extrapolation factor} = 9.54\text{dB (distance=1m)}$$

$$\text{Result (dB}\mu\text{V/m)} = \text{Reading (dB}\mu\text{V)} + \text{Factor (dB/m)}$$

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

$$\text{Margin (dB)} = \text{Limit (dB}\mu\text{V/m)} - \text{Result (dB}\mu\text{V/m)}$$

Test Data

Please refer to the below table and plots.

Frequency Range:	Below 1 GHz	Above 1 GHz
Temperature:	22.4°C	23.4°C~23.9°C
Relative Humidity:	56 %	52%~55%
ATM Pressure:	101.1kPa	100.1kPa~100.6kPa
Test Date:	2024-08-26	2024-08-27~2024-08-28
Test Engineer:	Wlif Wu	Wlif Wu

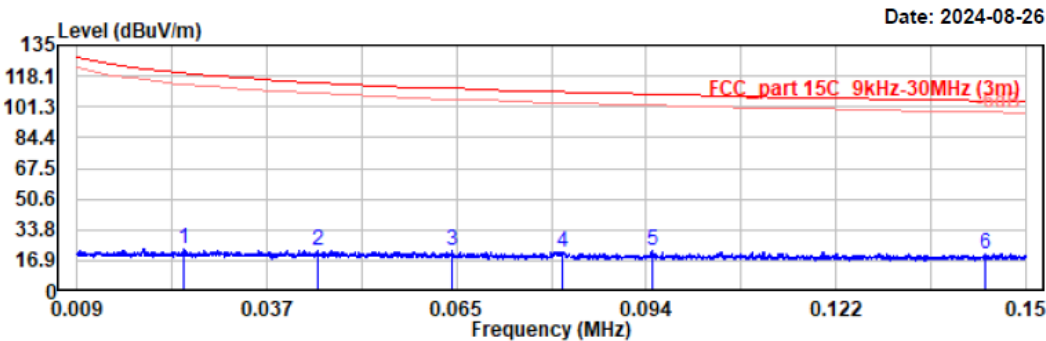
1) 9 kHz~30MHz

Pre-scan in parallel, ground-parallel and perpendicular of orientation of loop antenna, parallel is worst case

EUT operation mode: Transmitting in Wifi 802.11b high channel in parallel (worst case)

Project No.: 2407W89441E-RF
Test Mode: 11b-2462
EUT Model: MS-C5321-FPE
Test distance: 3m

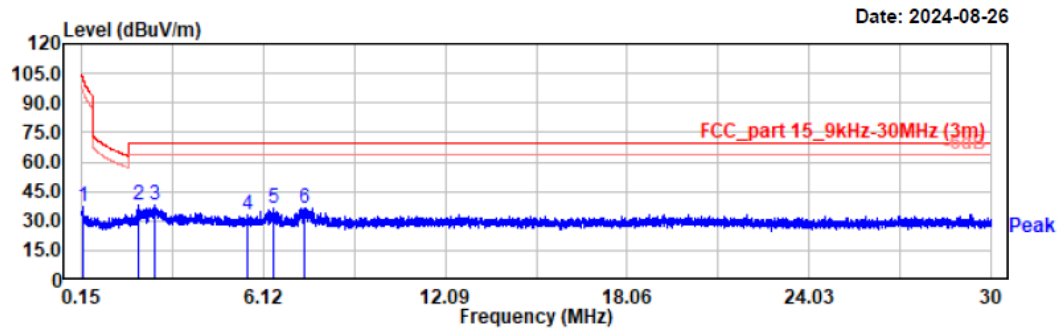
Temp/Humi/ATM: 22.4°C/56%/101.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.025	3.49	19.86	23.35	119.72	96.37	Peak
0.045	2.42	19.91	22.33	114.60	92.27	Peak
0.065	2.16	19.86	22.02	111.38	89.36	Peak
0.081	1.71	19.72	21.43	109.42	87.99	Peak
0.094	2.23	19.78	22.01	108.10	86.09	Peak
0.144	0.69	19.73	20.42	104.44	84.02	Peak

Project No.: 2407W89441E-RF
Test Mode: 11b-2462
EUT Model: MS-C5321-FPE
Test distance: 3m

Temp/Humi/ATM: 22.4℃/56%/101.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.195	17.63	19.72	37.35	101.81	64.46	Peak
1.992	18.13	19.57	37.70	69.54	31.84	Peak
2.523	18.09	19.71	37.80	69.54	31.74	Peak
5.586	13.15	19.75	32.90	69.54	36.64	Peak
6.424	16.44	19.76	36.20	69.54	33.34	Peak
7.487	16.90	19.68	36.58	69.54	32.96	Peak

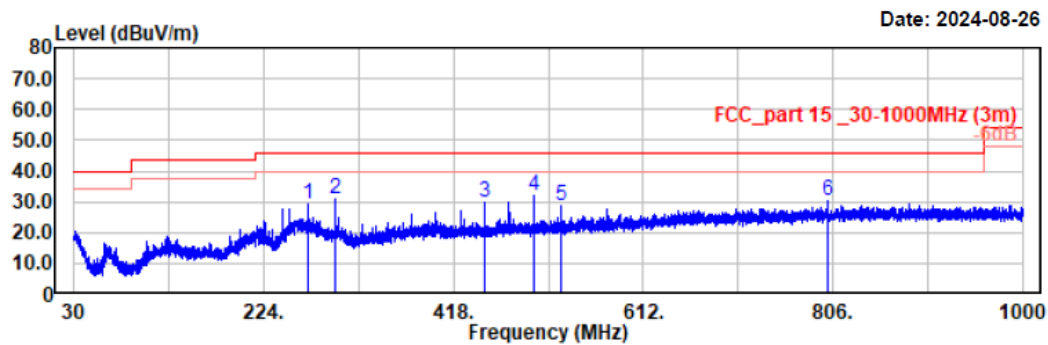
2) 30MHz~1GHz

EUT operation mode: Transmitting in Wifi 802.11b high channel Z-axis of orientation (worst case)

For adapter power supply:

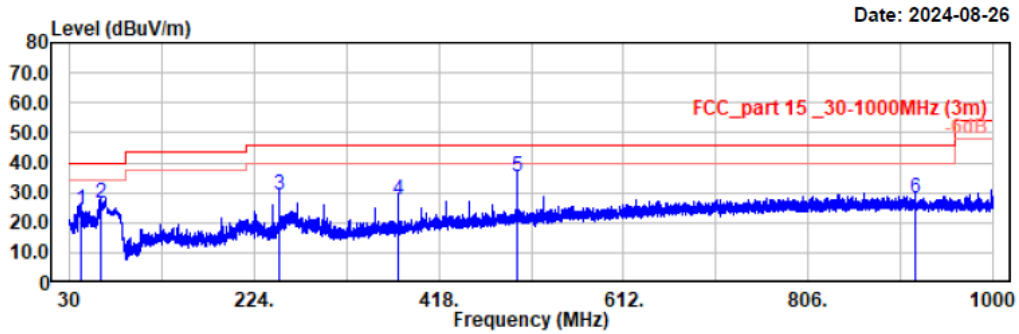
Project No.: 2407W89441E-RF
Test Mode: 11b-2462
EUT Model: MS-C5321-FPE
Test distance: 3m

Temp/Humi/ATM: 22.4°C/56%/101.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Project No.: 2407W89441E-RF
Test Mode: 11b-2462
EUT Model: MS-C5321-FPE
Test distance: 3m

Temp/Humi/ATM: 22.4°C/56%/101.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

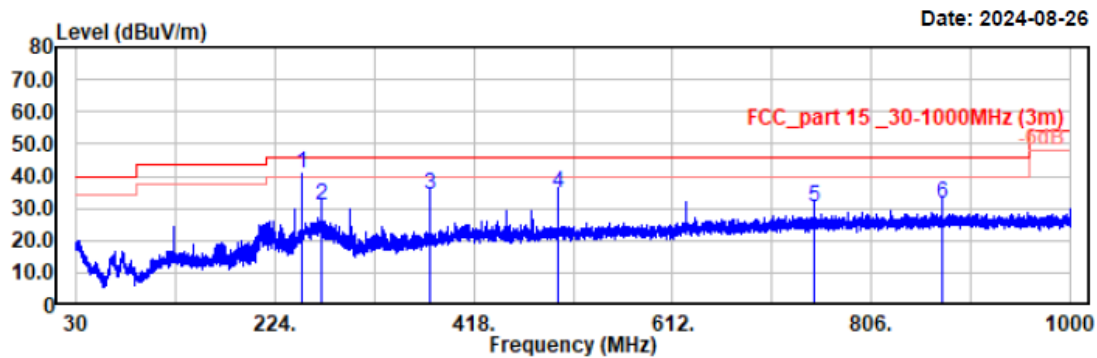


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
41.64	37.29	-12.82	24.47	40.00	15.53	Vertical	QP
61.91	43.70	-17.45	26.25	40.00	13.75	Vertical	QP
250.00	40.88	-11.41	29.47	46.00	16.53	Vertical	QP
375.03	34.96	-7.25	27.71	46.00	18.29	Vertical	QP
499.97	38.45	-3.40	35.05	46.00	10.95	Vertical	QP
918.04	25.29	2.71	28.00	46.00	18.00	Vertical	QP

For PoE power supply:

Project No.: 2407W89441E-RF
Test Mode: 11b-2462
EUT Model: MS-C5321-FPE
Test distance: 3m

Temp/Humi/ATM: 22.4°C/56%/101.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from POE



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
250.00	52.45	-11.41	41.04	46.00	4.96	Horizontal	QP
269.98	40.70	-9.77	30.93	46.00	15.07	Horizontal	QP
375.03	41.37	-7.25	34.12	46.00	11.88	Horizontal	QP
499.97	38.06	-3.40	34.66	46.00	11.34	Horizontal	QP
750.03	29.71	0.56	30.27	46.00	15.73	Horizontal	QP
875.06	29.37	2.24	31.61	46.00	14.39	Horizontal	QP

Project No.: 2407W89441E-RF

Test Mode: 11b-2462

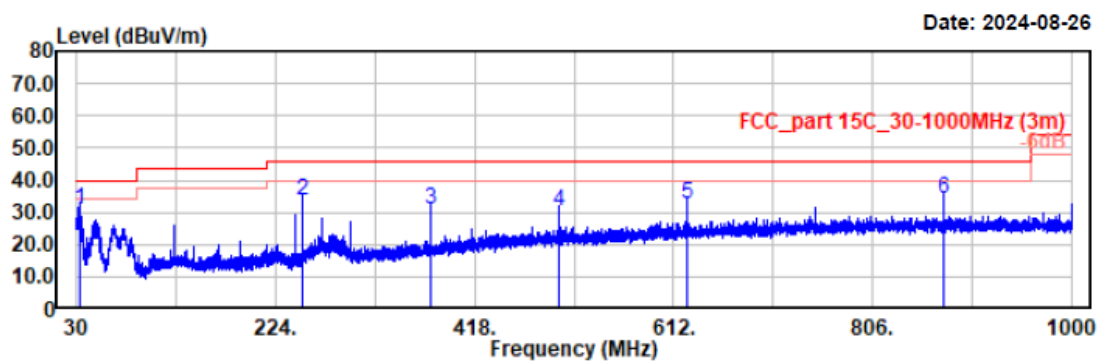
EUT Model: MS-C5321-FPE

Test distance: 3m

Temp/Humi/ATM: 22.4℃/56%/101.1kPa

Tested by: Wlif Wu

Power Source: DC 48V from POE



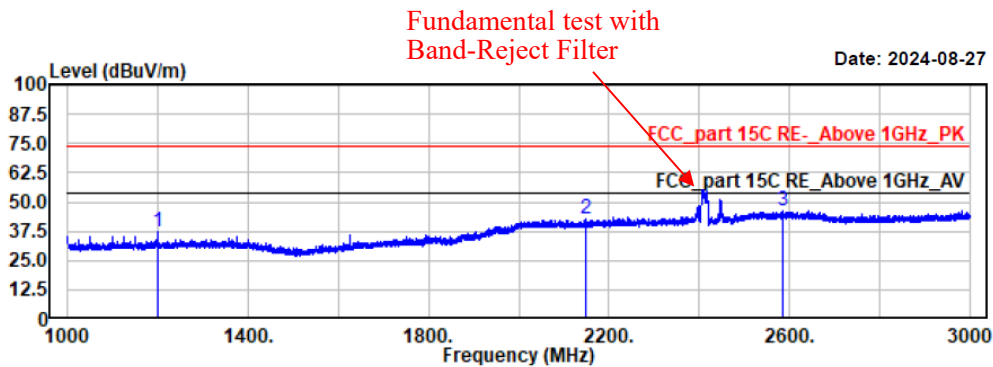
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
32.43	37.62	-6.63	30.99	40.00	9.01	Vertical	QP
250.00	44.83	-11.41	33.42	46.00	12.58	Vertical	QP
375.03	38.32	-7.25	31.07	46.00	14.93	Vertical	QP
499.97	33.64	-3.40	30.24	46.00	15.76	Vertical	QP
625.00	34.11	-1.40	32.71	46.00	13.29	Vertical	QP
875.06	31.88	2.24	34.12	46.00	11.88	Vertical	QP

3) 1GHz~3GHz

EUT operation mode: Transmitting in Wifi 802.11b low channel

Project No.: 2407W89441E-RF
Test Mode: 11b-2412
EUT Model: MS-C5321-FPE
Test distance: 3m

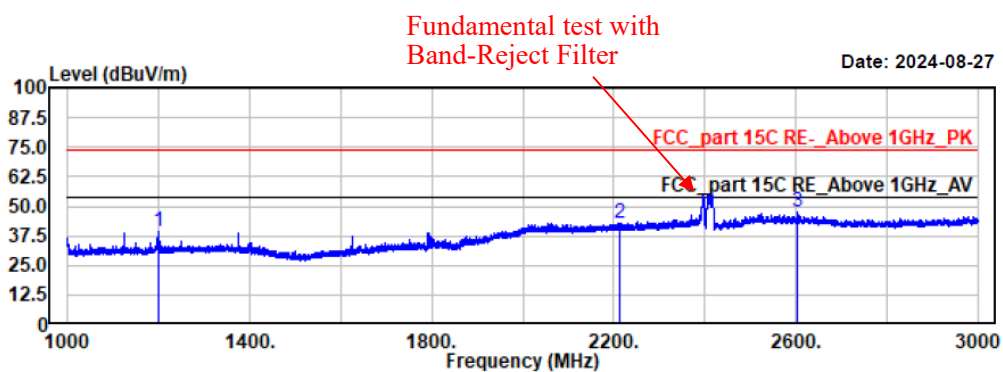
Temp/Humi/ATM: 23.4°C/52%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1199.60	53.25	-16.05	37.20	74.00	36.80	horizontal	Peak
2148.80	49.41	-6.74	42.67	74.00	31.33	horizontal	Peak
2586.20	49.41	-3.35	46.06	74.00	27.94	horizontal	Peak

Project No.: 2407W89441E-RF
Test Mode: 11b-2412
EUT Model: MS-C5321-FPE
Test distance: 3m

Temp/Humi/ATM: 23.4°C/52%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz

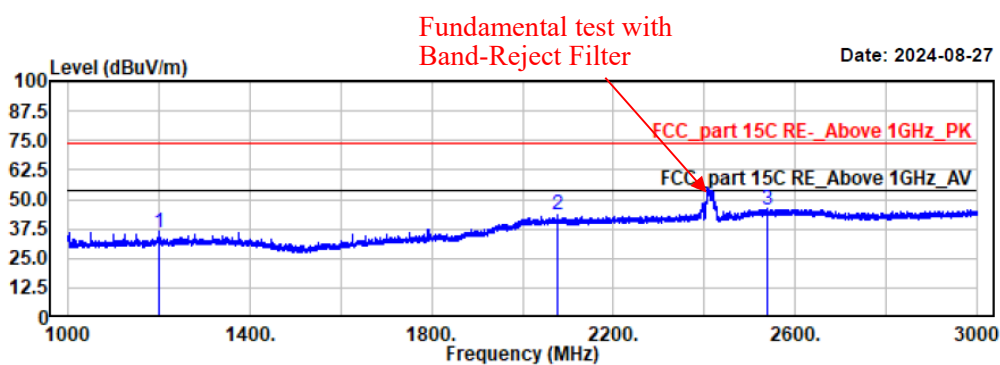


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1199.60	55.18	-16.05	39.13	74.00	34.87	vertical	Peak
2212.00	49.21	-6.26	42.95	74.00	31.05	vertical	Peak
2604.80	50.65	-3.31	47.34	74.00	26.66	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11b middle channel

Project No.: 2407W89441E-RF
Test Mode: 11b-2437
EUT Model: MS-C5321-FPE
Test distance: 3m

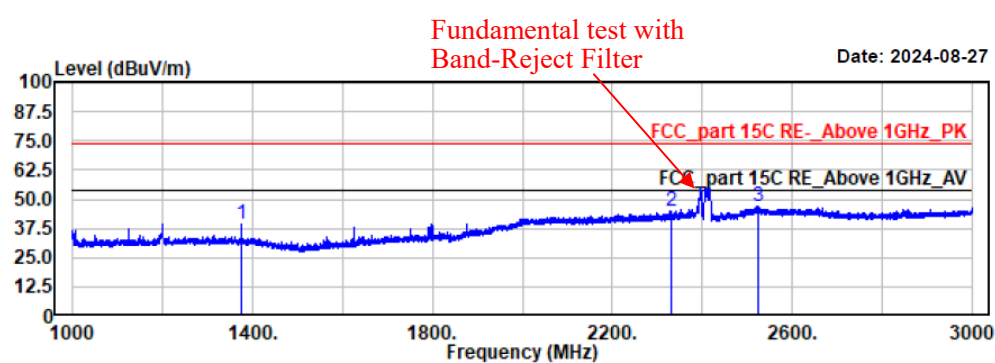
Temp/Humi/ATM: 23.4°C/52%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1200.60	52.21	-16.04	36.17	74.00	37.83	horizontal	Peak
2077.00	49.54	-6.38	43.16	74.00	30.84	horizontal	Peak
2539.80	49.46	-3.60	45.86	74.00	28.14	horizontal	Peak

Project No.: 2407W89441E-RF
Test Mode: 11b-2437
EUT Model: MS-C5321-FPE
Test distance: 3m

Temp/Humi/ATM: 23.4°C/52%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz

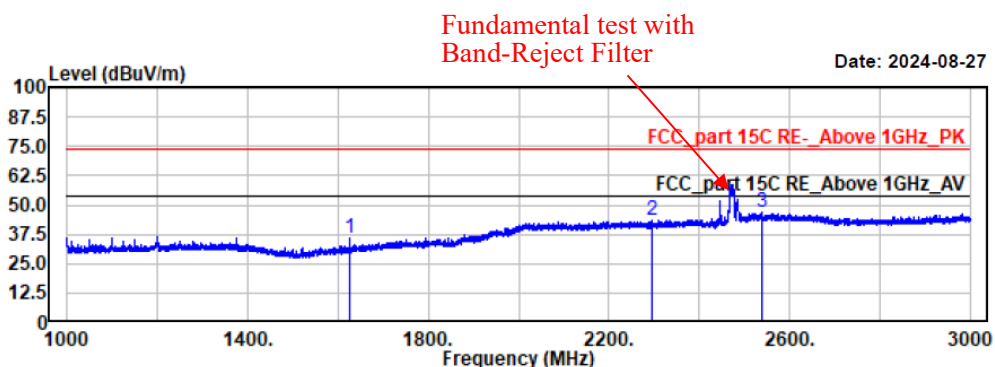


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1375.20	55.06	-15.60	39.46	74.00	34.54	vertical	Peak
2331.20	51.10	-6.04	45.06	74.00	28.94	vertical	Peak
2524.20	51.00	-3.82	47.18	74.00	26.82	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11b high channel

Project No.: 2407W89441E-RF
Test Mode: 11b-2462
EUT Model: MS-C5321-FPE
Test distance: 3m

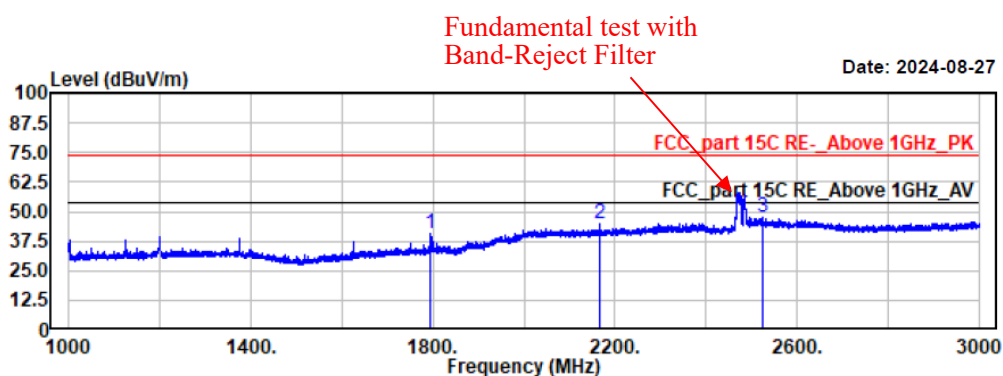
Temp/Humi/ATM: 23.4°C/52%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1624.80	51.87	-15.78	36.09	74.00	37.91	horizontal	Peak
2295.40	50.07	-6.32	43.75	74.00	30.25	horizontal	Peak
2537.80	50.36	-3.63	46.73	74.00	27.27	horizontal	Peak

Project No.: 2407W89441E-RF
Test Mode: 11b-2462
EUT Model: MS-C5321-FPE
Test distance: 3m

Temp/Humi/ATM: 23.4°C/52%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz

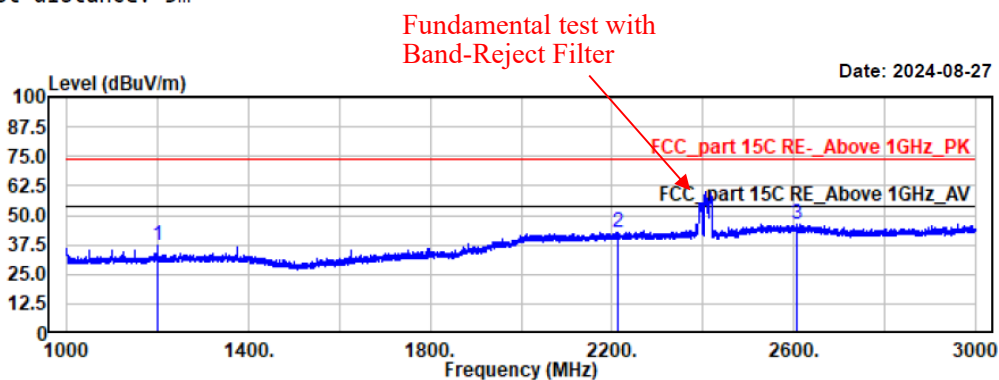


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1795.00	52.09	-11.68	40.41	74.00	33.59	vertical	Peak
2165.00	51.60	-6.59	45.01	74.00	28.99	vertical	Peak
2525.60	51.05	-3.80	47.25	74.00	26.75	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11g low channel

Project No.: 2407W89441E-RF
Test Mode: 11g-2412
EUT Model: MS-C5321-FPE
Test distance: 3m

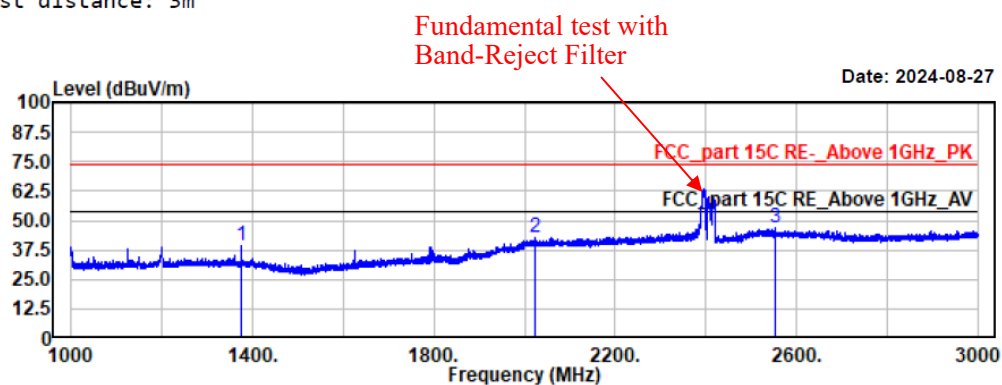
Temp/Humi/ATM: 23.4°C/52%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1199.80	53.11	-16.05	37.06	74.00	36.94	horizontal	Peak
2214.20	48.93	-6.25	42.68	74.00	31.32	horizontal	Peak
2606.20	49.83	-3.30	46.53	74.00	27.47	horizontal	Peak

Project No.: 2407W89441E-RF
Test Mode: 11g-2412
EUT Model: MS-C5321-FPE
Test distance: 3m

Temp/Humi/ATM: 23.4°C/52%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1375.00	55.23	-15.60	39.63	74.00	34.37	vertical	Peak
2023.00	49.41	-6.40	43.01	74.00	30.99	vertical	Peak
2553.60	50.06	-3.46	46.60	74.00	27.40	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11g middle channel

Project No.: 2407W89441E-RF

Test Mode: 11g-2437

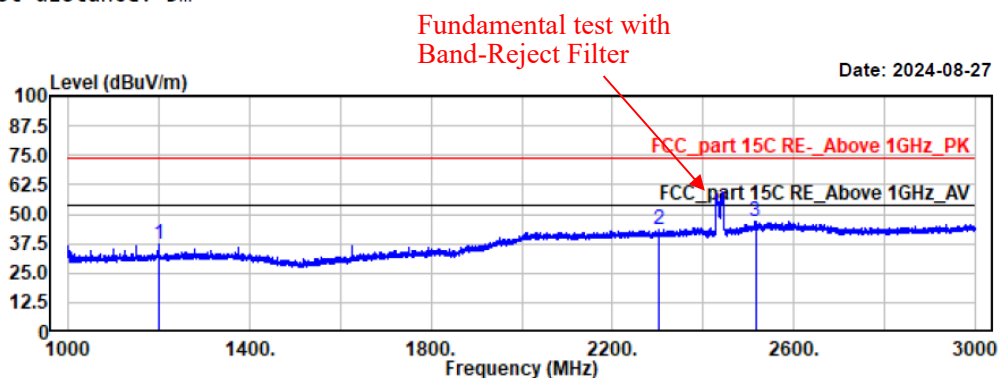
EUT Model: MS-C5321-FPE

Test distance: 3m

Temp/Humi/ATM: 23.4°C/52%/100.1kPa

Tested by: Wlif Wu

Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1200.80	53.01	-16.04	36.97	74.00	37.03	horizontal	Peak
2301.60	49.78	-6.31	43.47	74.00	30.53	horizontal	Peak
2515.60	50.54	-3.93	46.61	74.00	27.39	horizontal	Peak

Project No.: 2407W89441E-RF

Test Mode: 11g-2437

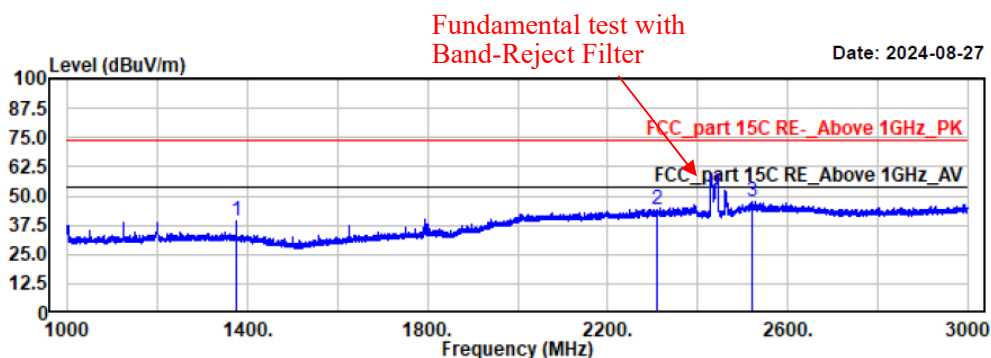
EUT Model: MS-C5321-FPE

Test distance: 3m

Temp/Humi/ATM: 23.4°C/52%/100.1kPa

Tested by: Wlif Wu

Power Source: AC120V/60Hz

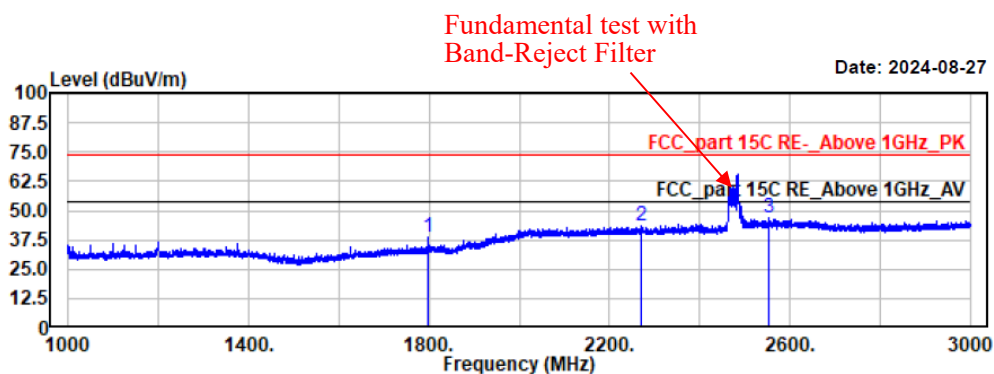


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1375.00	55.09	-15.60	39.49	74.00	34.51	vertical	Peak
2311.00	50.68	-6.23	44.45	74.00	29.55	vertical	Peak
2521.80	51.21	-3.84	47.37	74.00	26.63	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11g high channel

Project No.: 2407W89441E-RF
Test Mode: 11g-2462
EUT Model: MS-C5321-FPE
Test distance: 3m

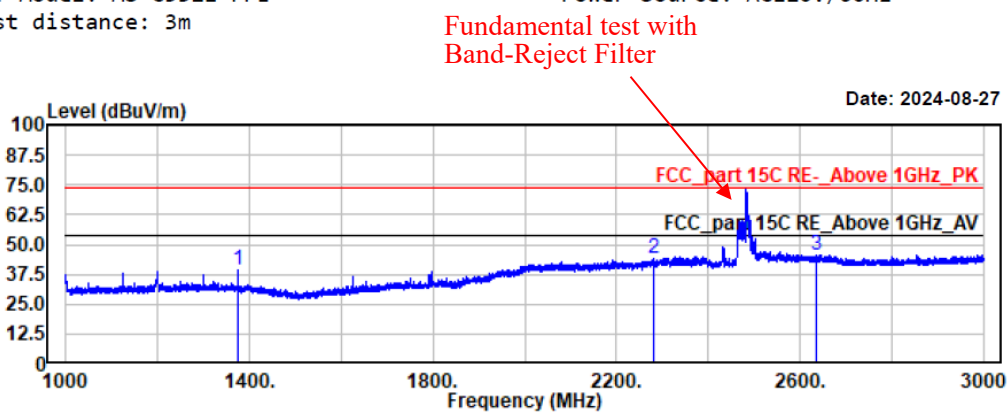
Temp/Humi/ATM: 23.4°C/52%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1798.60	50.55	-11.60	38.95	74.00	35.05	horizontal	Peak
2269.00	49.72	-6.27	43.45	74.00	30.55	horizontal	Peak
2552.20	50.11	-3.46	46.65	74.00	27.35	horizontal	Peak

Project No.: 2407W89441E-RF
Test Mode: 11g-2462
EUT Model: MS-C5321-FPE
Test distance: 3m

Temp/Humi/ATM: 23.4°C/52%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz

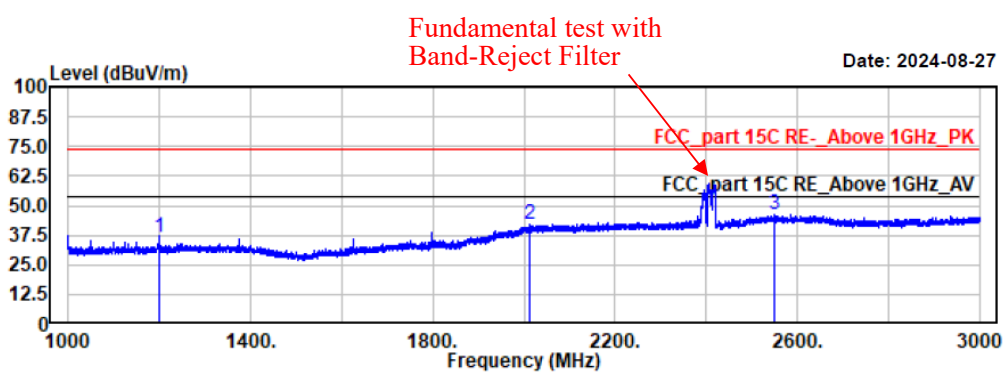


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1375.00	54.67	-15.60	39.07	74.00	34.93	vertical	Peak
2281.80	50.42	-6.30	44.12	74.00	29.88	vertical	Peak
2636.40	48.92	-3.35	45.57	74.00	28.43	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11n20 low channel

Project No.: 2407W89441E-RF
Test Mode: 11n20-2412
EUT Model: MS-C5321-FPE
Test distance: 3m

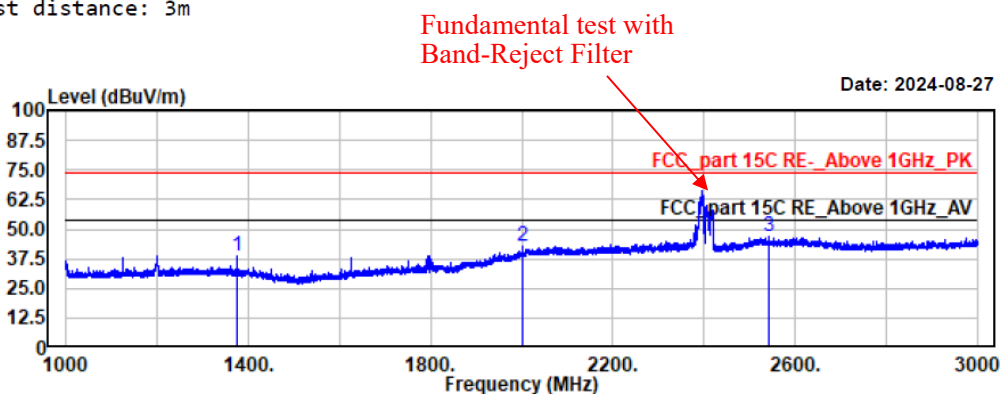
Temp/Humi/ATM: 23.4°C/52%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1200.60	52.30	-16.04	36.26	74.00	37.74	horizontal	Peak
2013.20	48.57	-6.55	42.02	74.00	31.98	horizontal	Peak
2549.40	49.69	-3.47	46.22	74.00	27.78	horizontal	Peak

Project No.: 2407W89441E-RF
Test Mode: 11n20-2412
EUT Model: MS-C5321-FPE
Test distance: 3m

Temp/Humi/ATM: 23.4°C/52%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz

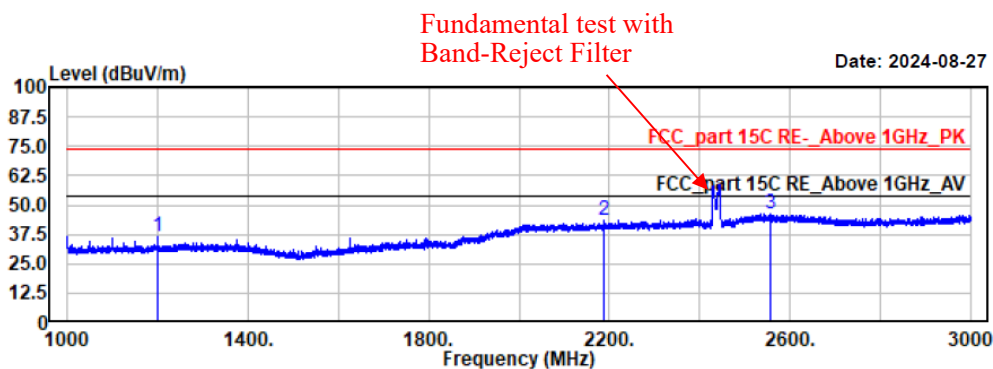


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1374.80	54.10	-15.59	38.51	74.00	35.49	vertical	Peak
2000.40	49.43	-6.74	42.69	74.00	31.31	vertical	Peak
2541.80	50.22	-3.58	46.64	74.00	27.36	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11n20 middle channel

Project No.: 2407W89441E-RF
Test Mode: 11n20-2437
EUT Model: MS-C5321-FPE
Test distance: 3m

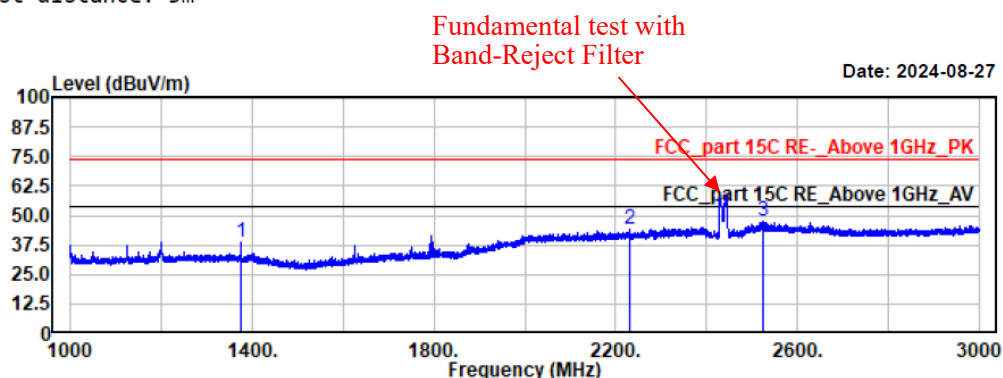
Temp/Humi/ATM: 23.4°C/52%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1200.40	52.80	-16.05	36.75	74.00	37.25	horizontal	Peak
2187.00	49.65	-6.38	43.27	74.00	30.73	horizontal	Peak
2555.80	49.93	-3.45	46.48	74.00	27.52	horizontal	Peak

Project No.: 2407W89441E-RF
Test Mode: 11n20-2437
EUT Model: MS-C5321-FPE
Test distance: 3m

Temp/Humi/ATM: 23.4°C/52%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz

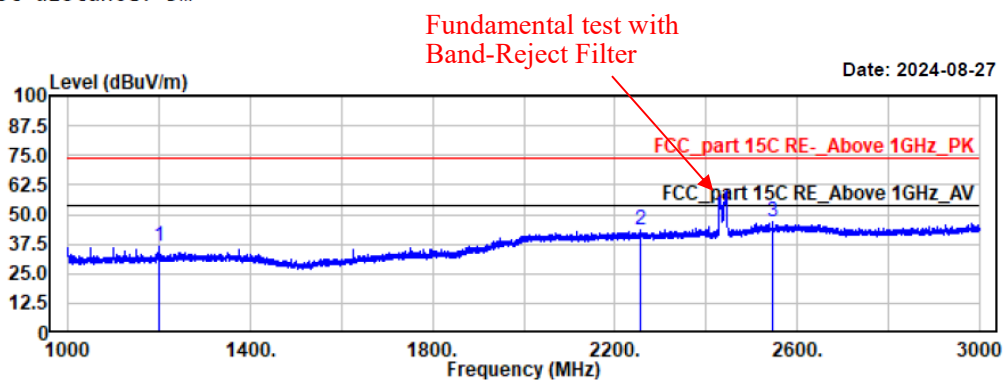


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1374.80	54.35	-15.59	38.76	74.00	35.24	vertical	Peak
2232.20	50.06	-6.25	43.81	74.00	30.19	vertical	Peak
2524.60	51.11	-3.82	47.29	74.00	26.71	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11n20 high channel

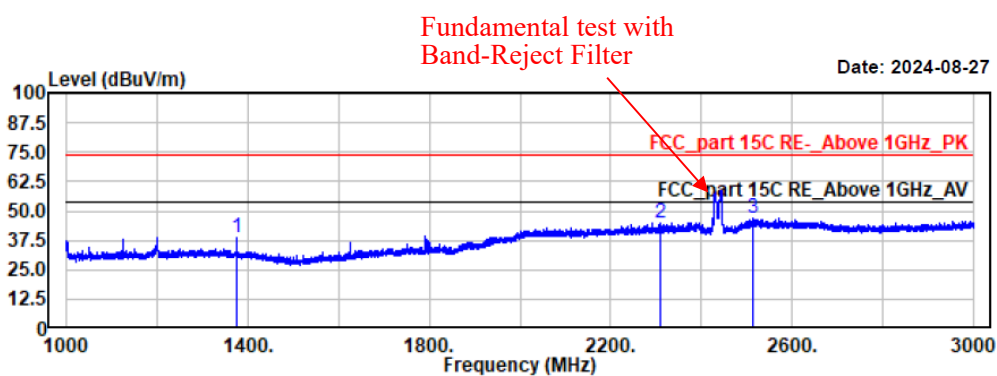
Project No.: 2407W89441E-RF
Test Mode: 11n20-2462
EUT Model: MS-C5321-FPE
Test distance: 3m

Temp/Humi/ATM: 23.4°C/52%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Project No.: 2407W89441E-RF
Test Mode: 11n20-2462
EUT Model: MS-C5321-FPE
Test distance: 3m

Temp/Humi/ATM: 23.4°C/52%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz

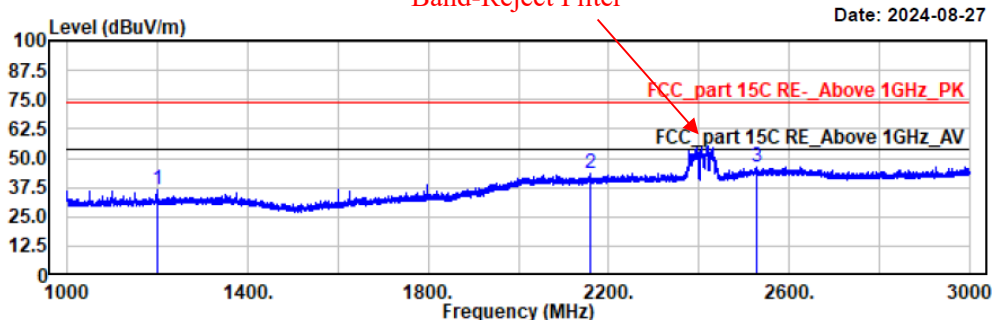


EUT operation mode: Transmitting in Wifi 802.11n40 low channel

Project No.: 2407W89441E-RF
Test Mode: 11n40-2422
EUT Model: MS-C5321-FPE
Test distance: 3m

Temp/Humi/ATM: 23.4°C/52%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz

Fundamental test with
Band-Reject Filter

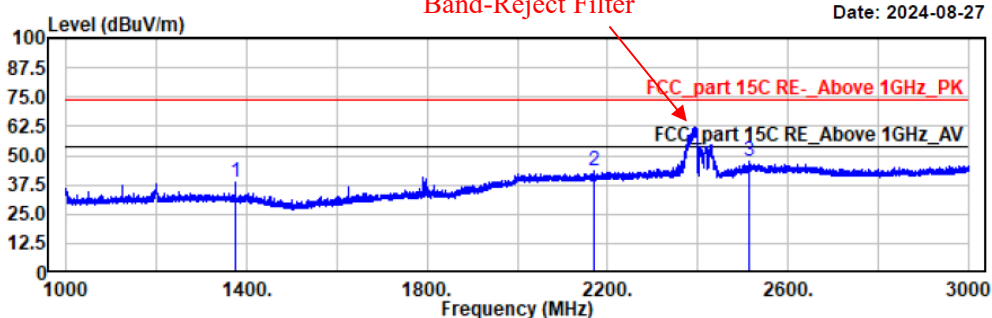


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1200.20	52.68	-16.05	36.63	74.00	37.37	horizontal	Peak
2159.00	50.07	-6.65	43.42	74.00	30.58	horizontal	Peak
2528.20	50.22	-3.77	46.45	74.00	27.55	horizontal	Peak

Project No.: 2407W89441E-RF
Test Mode: 11n40-2422
EUT Model: MS-C5321-FPE
Test distance: 3m

Temp/Humi/ATM: 23.4°C/52%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz

Fundamental test with
Band-Reject Filter

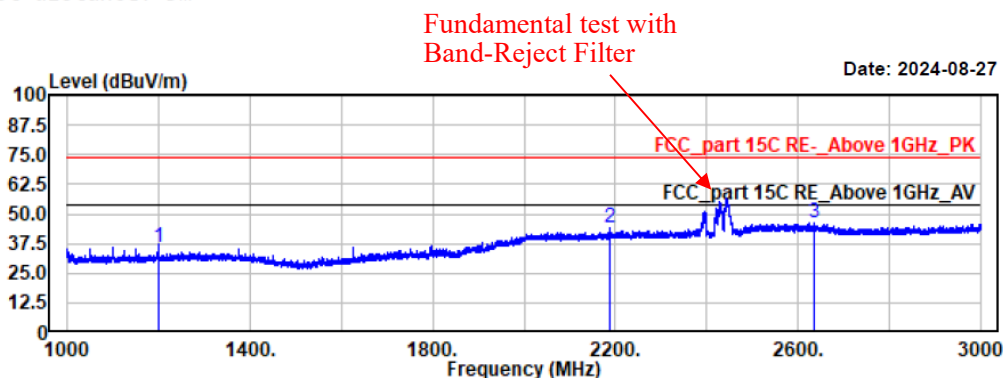


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1375.00	54.29	-15.60	38.69	74.00	35.31	vertical	Peak
2170.00	49.90	-6.54	43.36	74.00	30.64	vertical	Peak
2515.00	51.32	-3.94	47.38	74.00	26.62	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11n40 middle channel

Project No.: 2407W89441E-RF
Test Mode: 11n40-2437
EUT Model: MS-C5321-FPE
Test distance: 3m

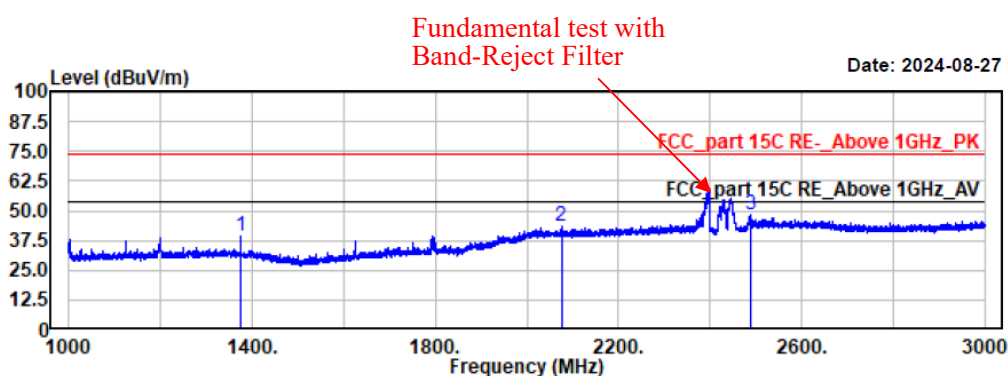
Temp/Humi/ATM: 23.4°C/52%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1200.40	52.02	-16.05	35.97	74.00	38.03	horizontal	Peak
2189.40	50.43	-6.36	44.07	74.00	29.93	horizontal	Peak
2636.00	49.38	-3.35	46.03	74.00	27.97	horizontal	Peak

Project No.: 2407W89441E-RF
Test Mode: 11n40-2437
EUT Model: MS-C5321-FPE
Test distance: 3m

Temp/Humi/ATM: 23.4°C/52%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz

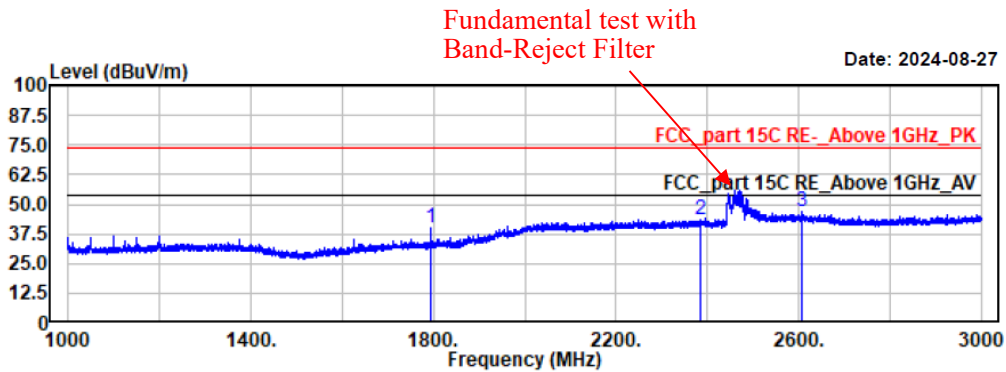


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1375.20	54.84	-15.60	39.24	74.00	34.76	vertical	Peak
2075.20	49.52	-6.36	43.16	74.00	30.84	vertical	Peak
2487.60	52.47	-4.39	48.08	74.00	25.92	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11n40 high channel

Project No.: 2407W89441E-RF
Test Mode: 11n40-2452
EUT Model: MS-C5321-FPE
Test distance: 3m

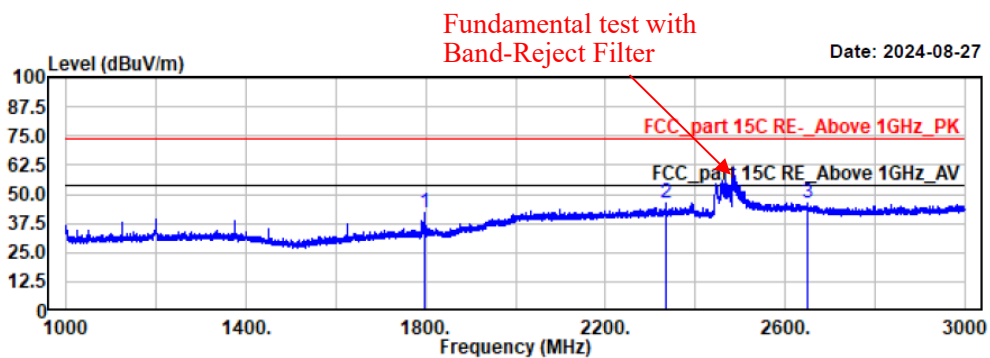
Temp/Humi/ATM: 23.4°C/52%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1793.40	51.62	-11.72	39.90	74.00	34.10	horizontal	Peak
2385.80	49.06	-5.38	43.68	74.00	30.32	horizontal	Peak
2606.20	49.95	-3.30	46.65	74.00	27.35	horizontal	Peak

Project No.: 2407W89441E-RF
Test Mode: 11n40-2452
EUT Model: MS-C5321-FPE
Test distance: 3m

Temp/Humi/ATM: 23.4°C/52%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1797.20	53.50	-11.63	41.87	74.00	32.13	vertical	Peak
2334.60	52.38	-6.00	46.38	74.00	27.62	vertical	Peak
2649.60	49.68	-3.37	46.31	74.00	27.69	vertical	Peak

4) 3GHz~18GHz

EUT operation mode: Transmitting in Wifi 802.11b low channel

Project No.: 2407W89441E-RF

Test Mode: 11b-2412

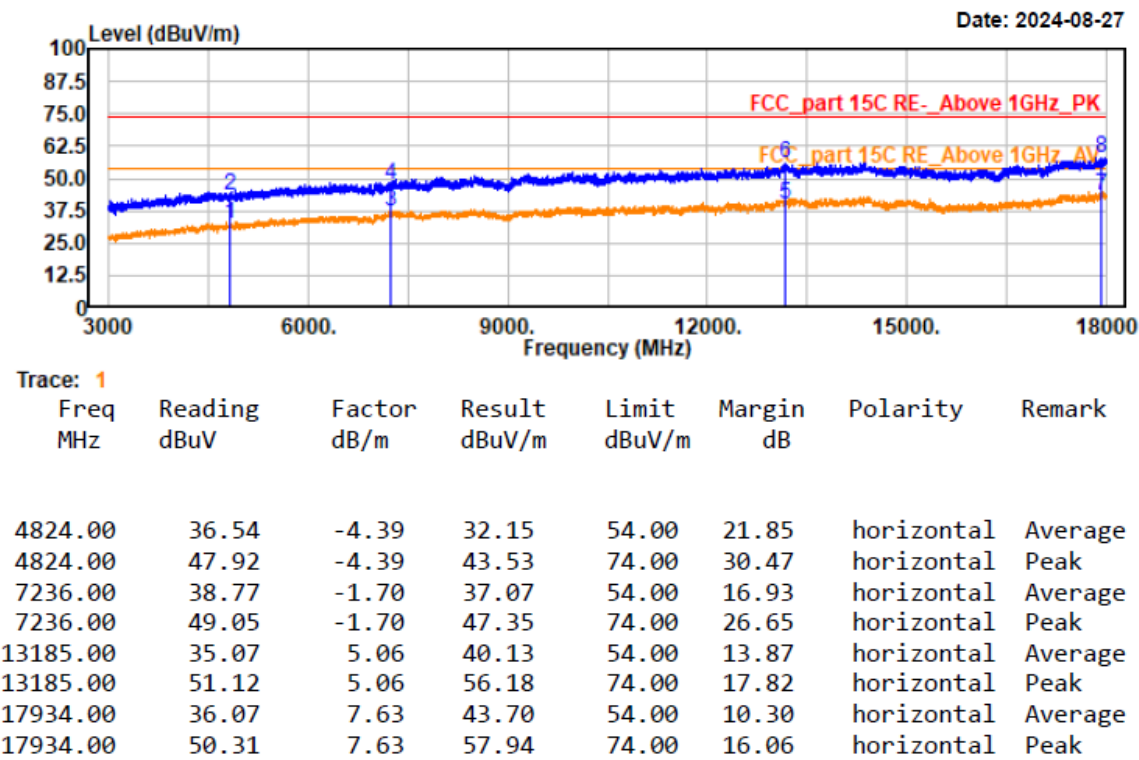
EUT Model: MS-C5321-FPE

Test distance: 3m

Temp/Humi/ATM: 23.4℃/52%/100.1kPa

Tested by: Wlif Wu

Power Source: AC120V/60Hz



Project No.: 2407W89441E-RF

Test Mode: 11b-2412

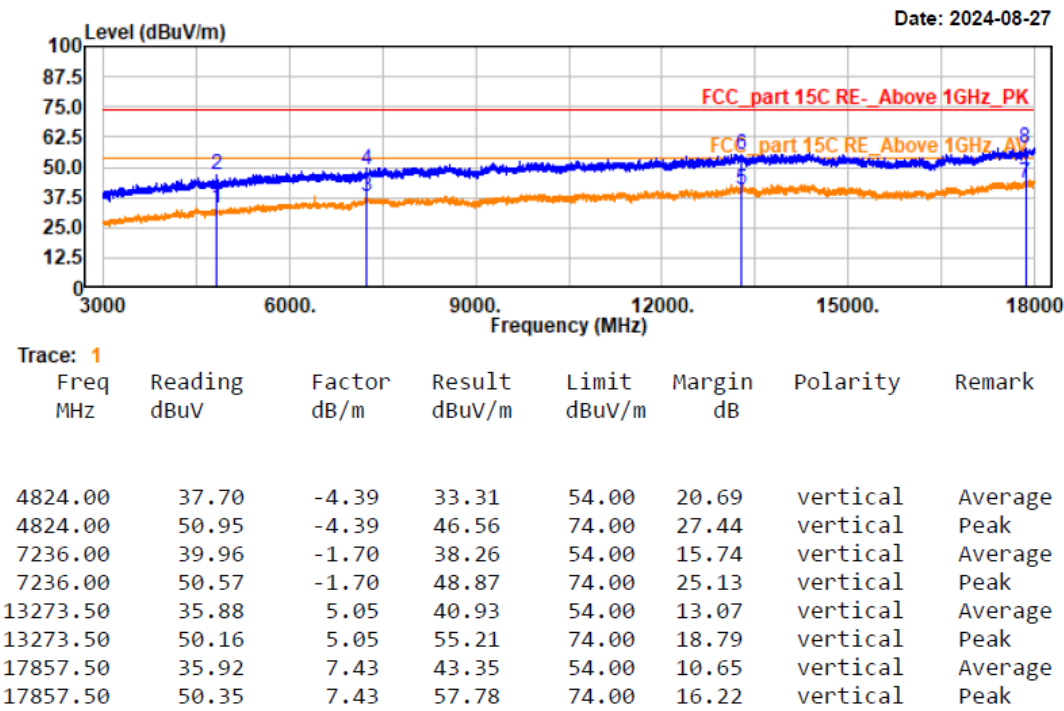
EUT Model: MS-C5321-FPE

Test distance: 3m

Temp/Humi/ATM: 23.4℃/52%/100.1kPa

Tested by: Wlif Wu

Power Source: AC120V/60Hz



EUT operation mode: Transmitting in Wifi 802.11b middle channel

Project No.: 2407W89441E-RF

Test Mode: 11b-2437

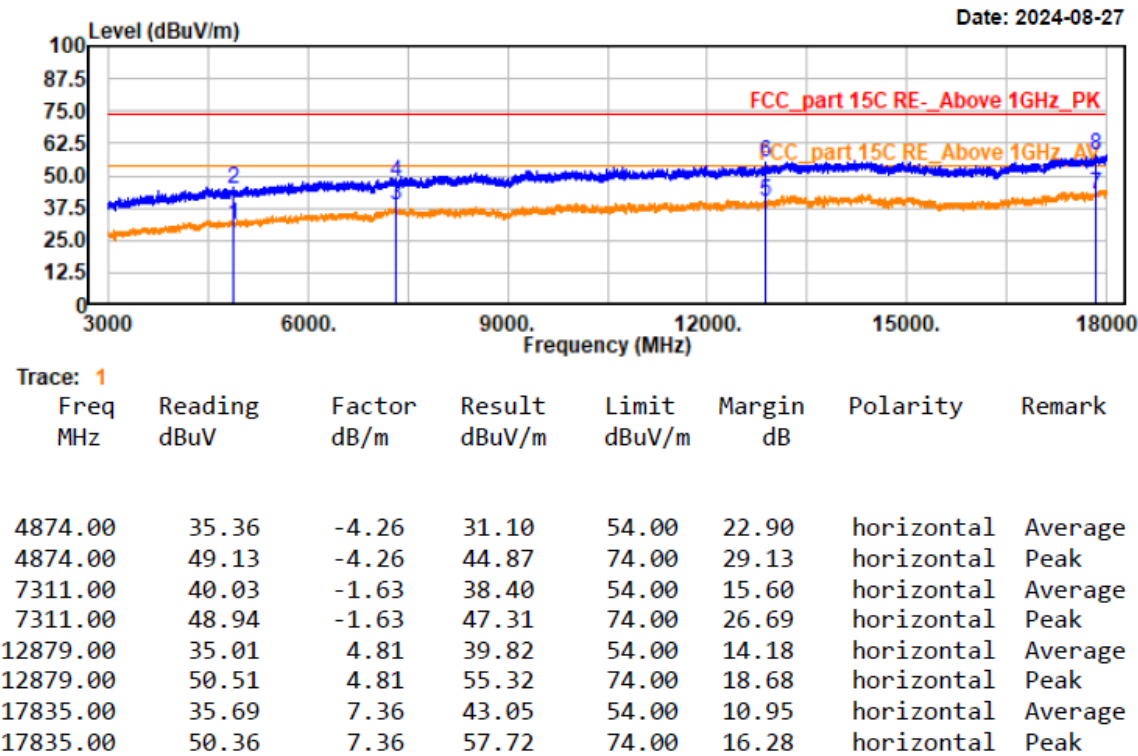
EUT Model: MS-C5321-FPE

Test distance: 3m

Temp/Humi/ATM: 23.4℃/52%/100.1kPa

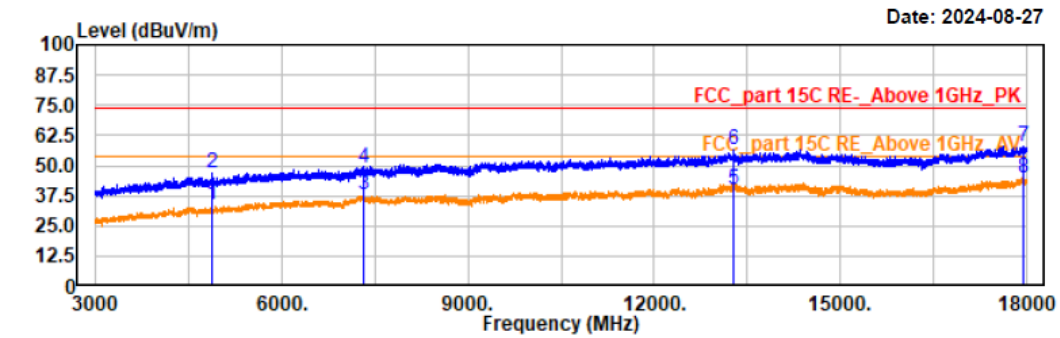
Tested by: Wlif Wu

Power Source: AC120V/60Hz



Project No.: 2407W89441E-RF
Test Mode: 11b-2437
EUT Model: MS-C5321-FPE
Test distance: 3m

Temp/Humi/ATM: 23.4°C/52%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Trace: 1

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4873.50	37.79	-4.26	33.53	54.00	20.47	vertical	Average
4873.50	50.93	-4.26	46.67	74.00	27.33	vertical	Peak
7311.00	39.39	-1.63	37.76	54.00	16.24	vertical	Average
7311.00	50.54	-1.63	48.91	74.00	25.09	vertical	Peak
13276.50	35.29	5.05	40.34	54.00	13.66	vertical	Average
13276.50	51.19	5.05	56.24	74.00	17.76	vertical	Peak
17955.00	49.96	7.68	57.64	74.00	16.36	vertical	Peak
17956.50	37.06	7.68	44.74	54.00	9.26	vertical	Average

EUT operation mode: Transmitting in Wifi 802.11b high channel

Project No.: 2407W89441E-RF

Test Mode: 11b-2462

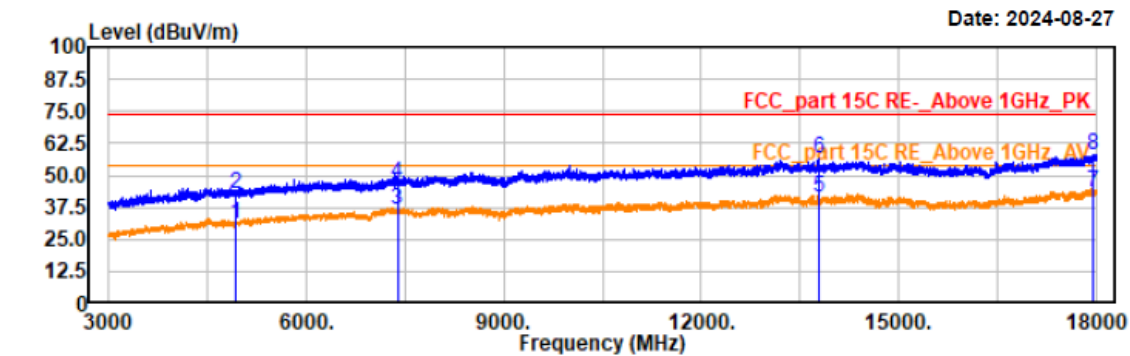
EUT Model: MS-C5321-FPE

Test distance: 3m

Temp/Humi/ATM: 23.1°C/52%/100.1kPa

Tested by: Wlif Wu

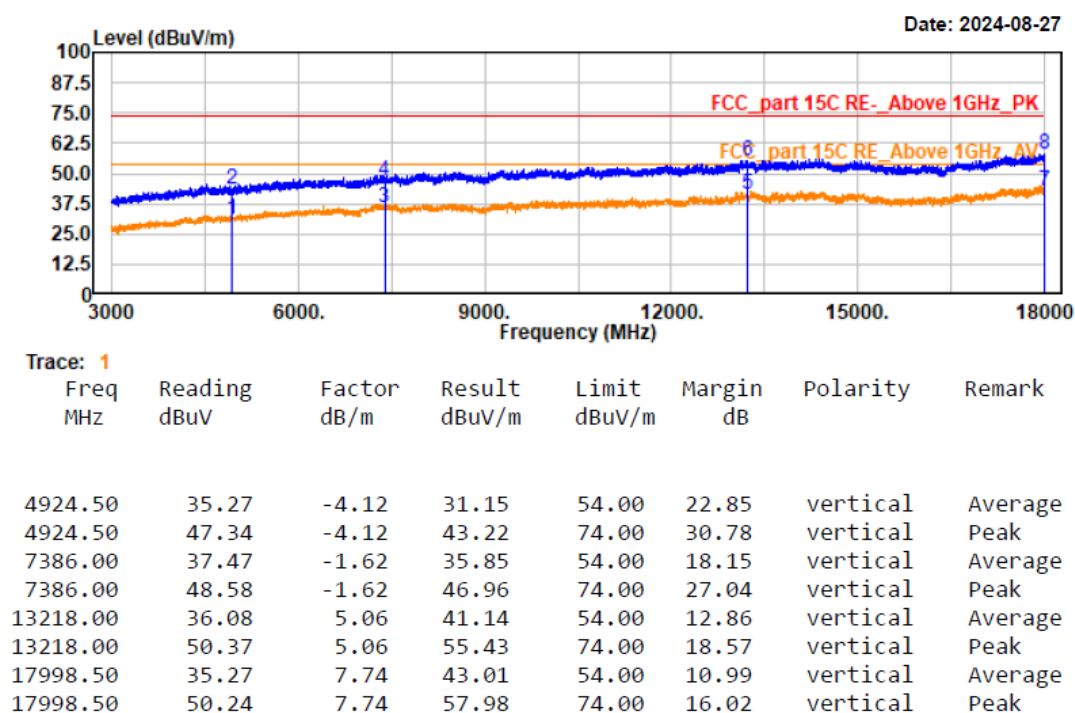
Power Source: AC120V/60Hz



Trace: 1							
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4924.00	34.91	-4.12	30.79	54.00	23.21	horizontal	Average
4924.00	46.76	-4.12	42.64	74.00	31.36	horizontal	Peak
7386.00	37.91	-1.62	36.29	54.00	17.71	horizontal	Average
7386.00	48.34	-1.62	46.72	74.00	27.28	horizontal	Peak
13788.00	36.02	5.03	41.05	54.00	12.95	horizontal	Average
13788.00	51.79	5.03	56.82	74.00	17.18	horizontal	Peak
17952.00	35.78	7.67	43.45	54.00	10.55	horizontal	Average
17952.00	50.18	7.67	57.85	74.00	16.15	horizontal	Peak

Project No.: 2407W89441E-RF
Test Mode: 11b-2462
EUT Model: MS-C5321-FPE
Test distance: 3m

Temp/Humi/ATM: 23.4°C/52%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



EUT operation mode: Transmitting in Wifi 802.11g low channel

Project No.: 2407W89441E-RF

Test Mode: 11g-2412

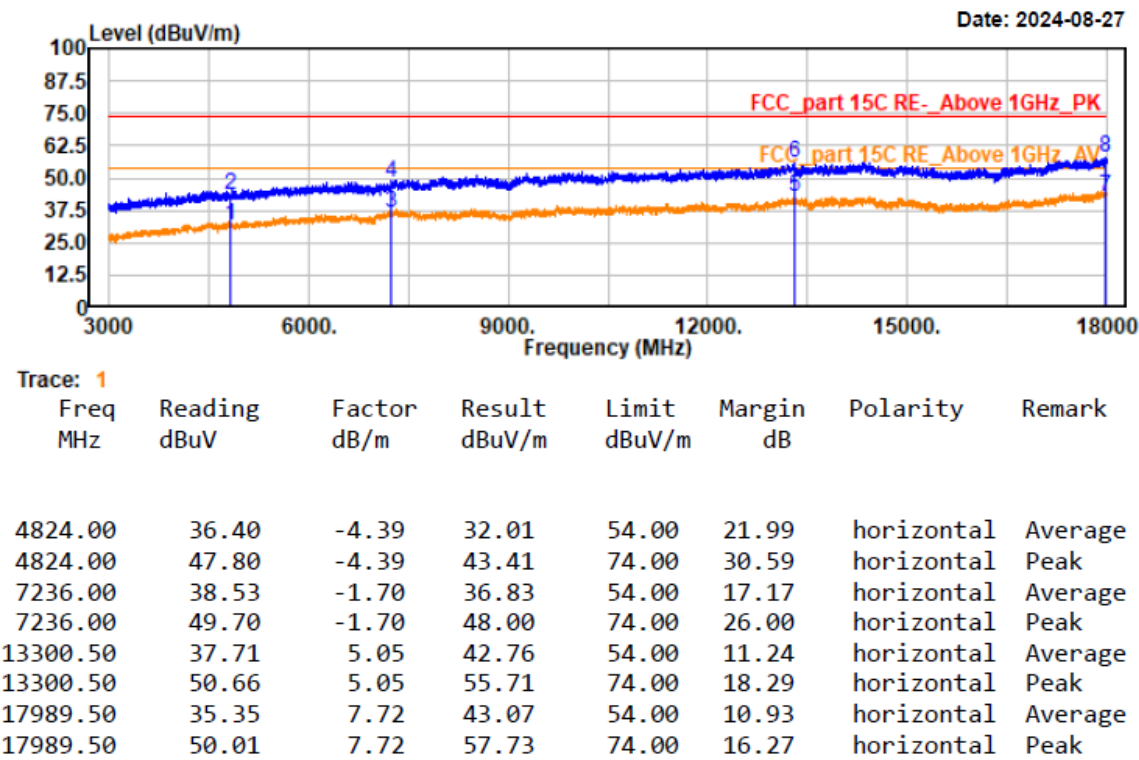
EUT Model: MS-C5321-FPE

Test distance: 3m

Temp/Humi/ATM: 23.4℃/52%/100.1kPa

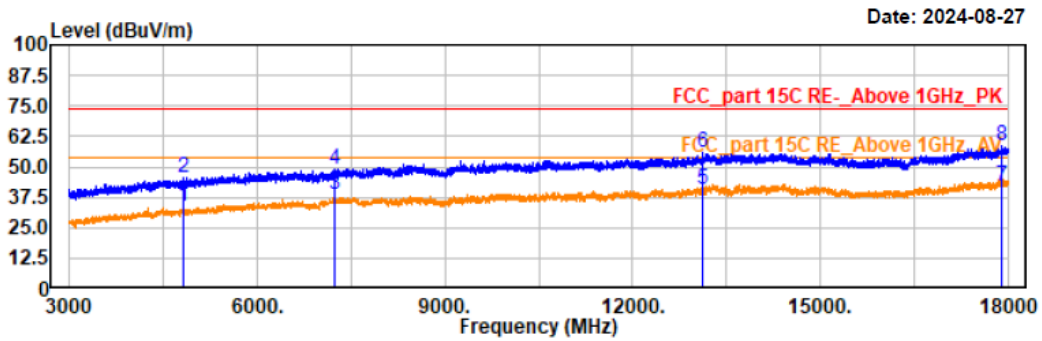
Tested by: Wlif Wu

Power Source: AC120V/60Hz



Project No.: 2407W89441E-RF
Test Mode: 11g-2412
EUT Model: MS-C5321-FPE
Test distance: 3m

Temp/Humi/ATM: 23.4°C/52%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



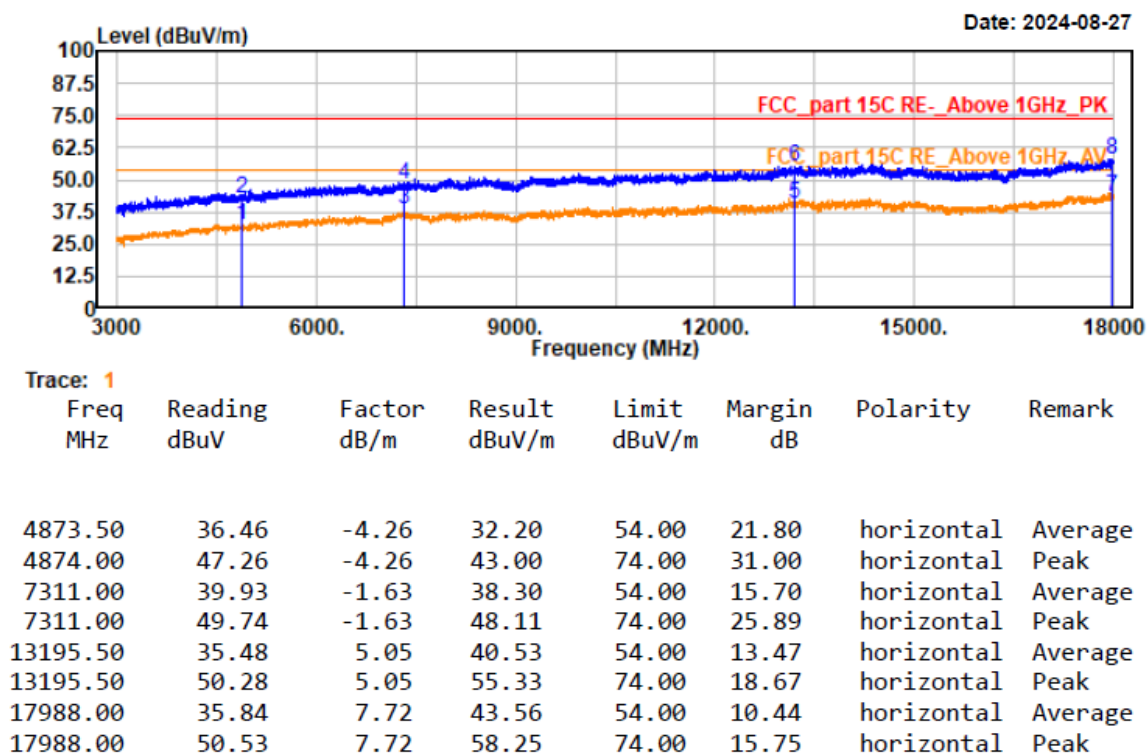
Trace: 1

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4824.00	37.92	-4.39	33.53	54.00	20.47	vertical	Average
4824.00	50.10	-4.39	45.71	74.00	28.29	vertical	Peak
7236.00	40.06	-1.70	38.36	54.00	15.64	vertical	Average
7236.00	50.71	-1.70	49.01	74.00	24.99	vertical	Peak
13128.00	35.87	5.07	40.94	54.00	13.06	vertical	Average
13128.00	50.75	5.07	55.82	74.00	18.18	vertical	Peak
17902.50	34.68	7.59	42.27	54.00	11.73	vertical	Average
17902.50	50.73	7.59	58.32	74.00	15.68	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11g middle channel

Project No.: 2407W89441E-RF
Test Mode: 11g-2437
EUT Model: MS-C5321-FPE
Test distance: 3m

Temp/Humi/ATM: 23.4℃/52%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Project No.: 2407W89441E-RF

Test Mode: 11g-2437

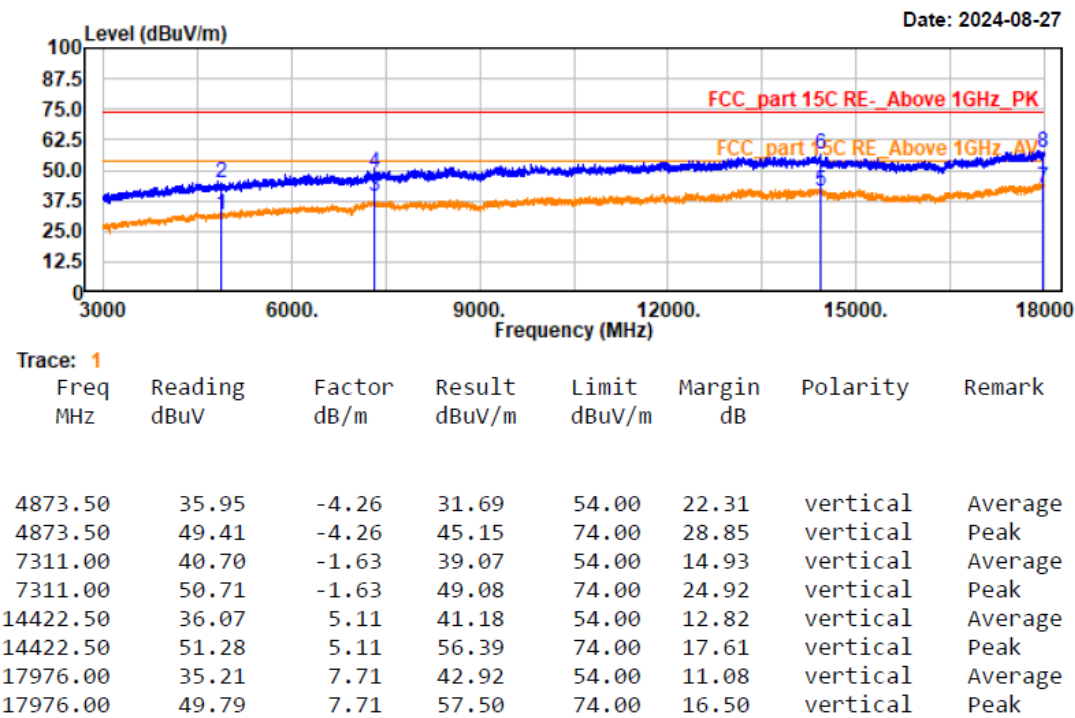
EUT Model: MS-C5321-FPE

Test distance: 3m

Temp/Humi/ATM: 23.4℃/52%/100.1kPa

Tested by: Wlif Wu

Power Source: AC120V/60Hz



EUT operation mode: Transmitting in Wifi 802.11g high channel

Project No.: 2407W89441E-RF

Test Mode: 11g-2462

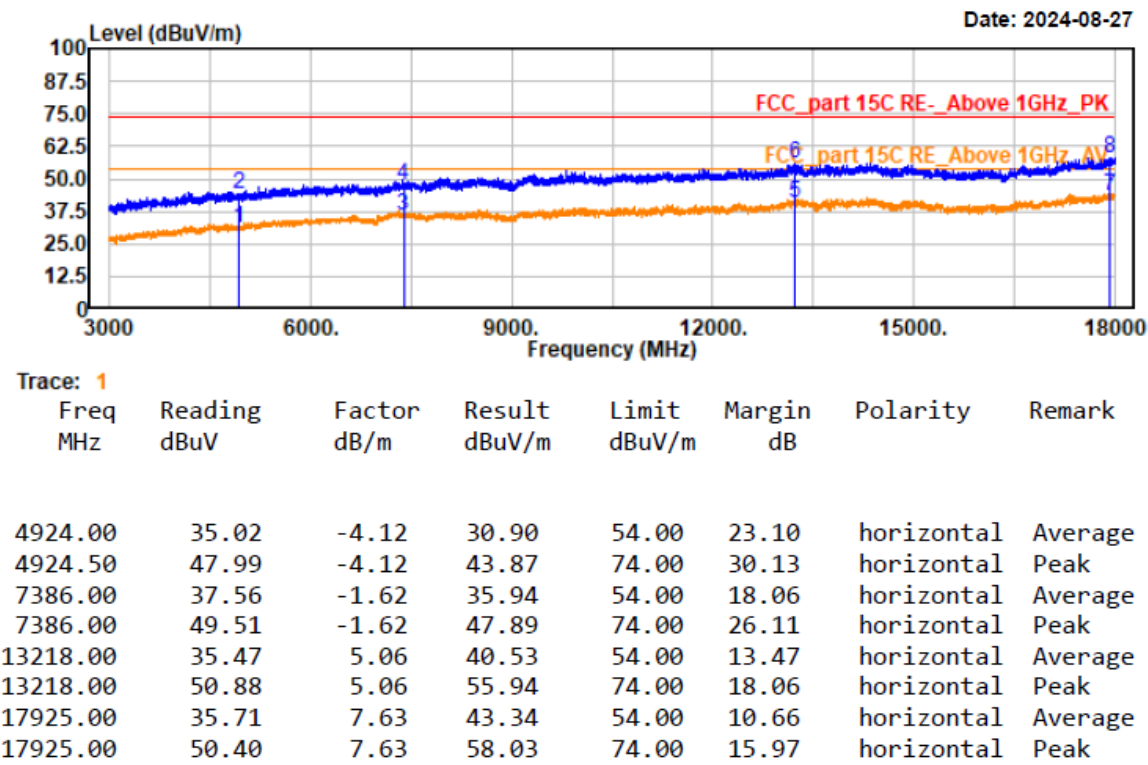
EUT Model: MS-C5321-FPE

Test distance: 3m

Temp/Humi/ATM: 23.4℃/52%/100.1kPa

Tested by: Wlif Wu

Power Source: AC120V/60Hz



Project No.: 2407W89441E-RF

Test Mode: 11g-2462

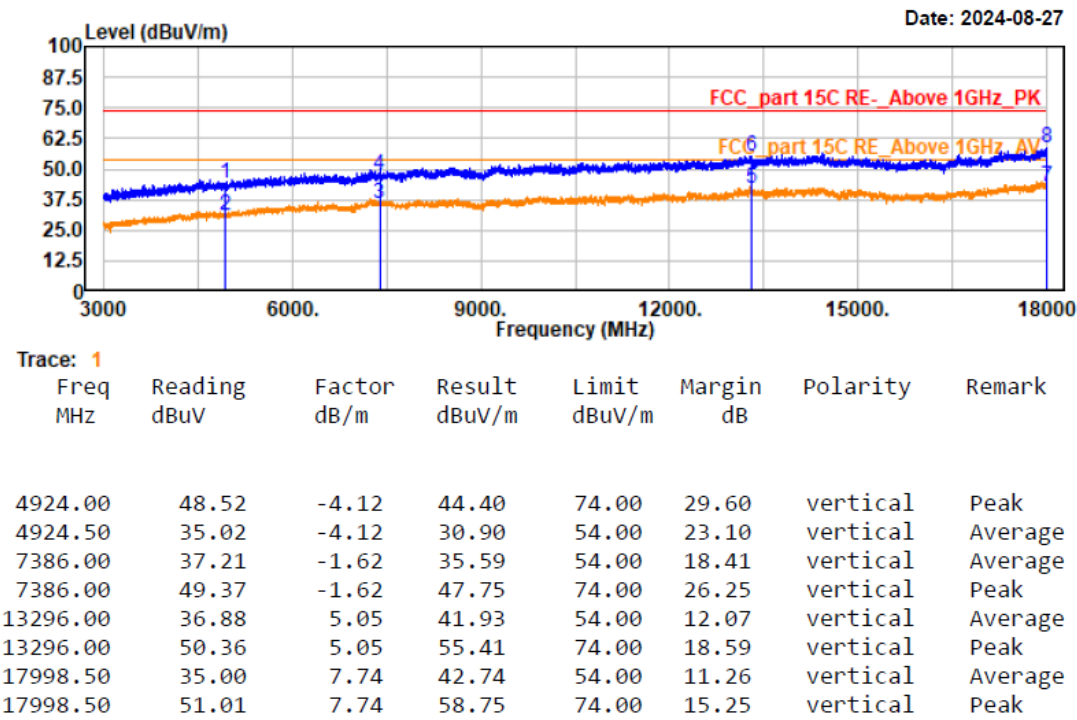
EUT Model: MS-C5321-FPE

Test distance: 3m

Temp/Humi/ATM: 23.4 C/52%/100.1kPa

Tested by: Wlif Wu

Power Source: AC120V/60Hz



EUT operation mode: Transmitting in Wifi 802.11n20 low channel

Project No.: 2407W89441E-RF

Test Mode: 11n20-2412

EUT Model: MS-C5321-FPE

Test distance: 3m

Temp/Humi/ATM: 23.4℃/52%/100.1kPa

Tested by: Wlif Wu

Power Source: AC120V/60Hz

