

TEST REPORT

Applicant Name: Grandstream Networks, Inc.
Address: 126 Brookline Ave., 3rd Floor Boston, MA 02215, USA
Report Number: 2501U16912E-EM-00
FCC ID: YZZGWN7605CLR

Test Standard (s)

FCC Part 15, Subpart B (Class B)

Sample Description

Product Type: Outdoor Wi-Fi Access Point with Phoenix Connector
Model No.: GWN7605CLR
Multiple Model(s) No.: N/A
Trade Mark: GRANDSTREAM
Date Received: 2025/06/23
Issue Date: 2025/08/29

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

Prepared and Checked By:

Carl Lu

Carl Lu
EMC Engineer

Approved By:

Moon Liu

Moon Liu
EMC Supervisor

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	2501U16912E-EM-00	Original Report	2025/08/29

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	Outdoor Wi-Fi Access Point with Phoenix Connector
Tested Model	GWN7605CLR
Multiple Model(s)	N/A
Voltage Range	DC 12-24 V from DC port or DC 48V from POE
Highest operating frequency [#]	5850MHz (Provided by the applicant)
Equipment Class	Class B
Sample number	356R-1 (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	N/A

Objective

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

The objective of the manufacturer is to determine the compliance of the EUT with FCC Part 15B.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

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

Item	Frequency Range		Expanded Measurement uncertainty
Conducted Emissions	AC Mains	150 kHz ~30MHz	3.66dB(k=2, 95% level of confidence)
Radiated Disturbance	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)

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.

Each test item follows test standards and with no deviation.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in worst case condition.

Test Mode 1: Data transmitting+ Power by DC 12V

Test Mode 2: Data transmitting+ Power by DC 24V

Test Mode 3: Data transmitting+ Power by POE

EUT exercise software

No exercise software was used.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
BULL	Socket	GN-415K	5503290068073
DELL	PC1	Latitude E6520	DL0ZCS1
DELL	PC2	Latitude E5430	JG3NLV1
DELL	PC3	Latitude E5570	GNDLKC2
Transin	Adapter1	TS-A018-120150E1	25408000019
Govee	Adapter2	BI36L-240150-AdJ	N/A
TP-link	POE	T480125-2-DT	N/A

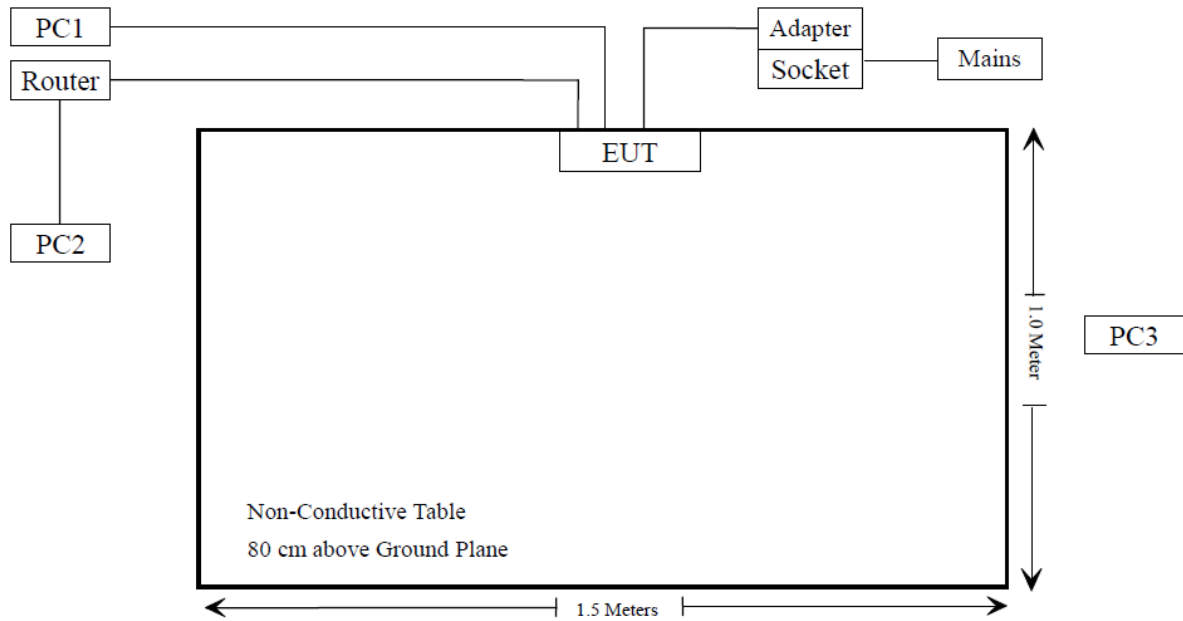
External I/O Cable

Cable Description	Length (m)	From/Port	To
Unshielded un-detachable AC cable	1.2	Socket	Mains/LISN
Unshielded un-detachable DC cable	2.5	Adapter1	EUT
Unshielded un-detachable DC cable	1.5	Adapter2	EUT
Unshielded detachable RJ45 cable	10.0	EUT	PC1
Unshielded detachable RJ45 cable	10.0	EUT	POE
Unshielded detachable RJ45 cable	1.5	POE	Router
Unshielded detachable RJ45 cable	1.5	Router	PC2

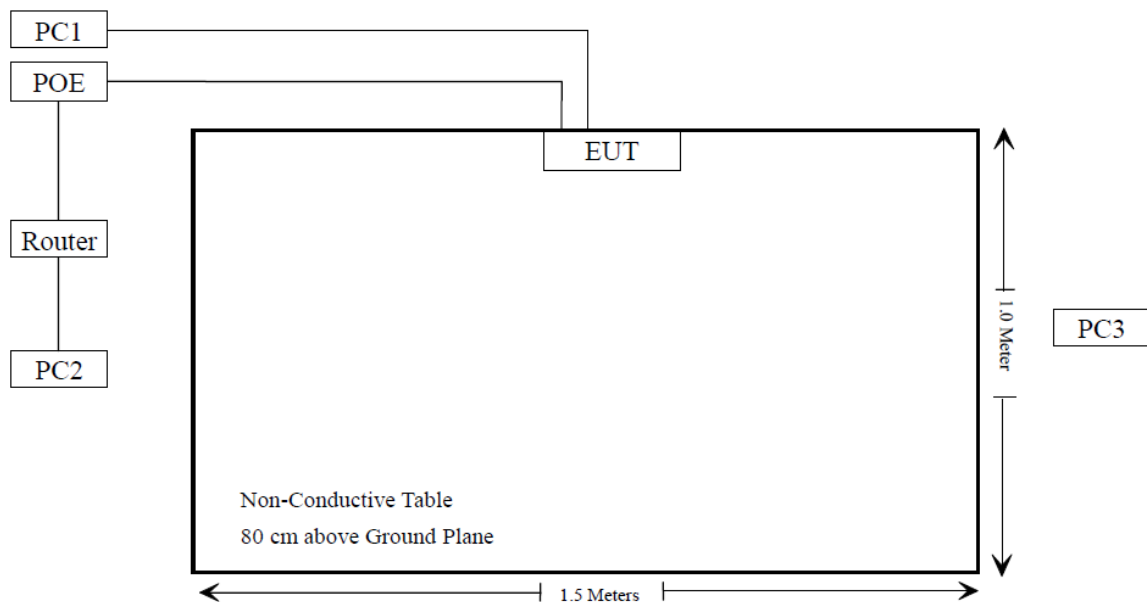
Block Diagram of Test Setup

For Radiated Emission:

Test Mode 1&2:

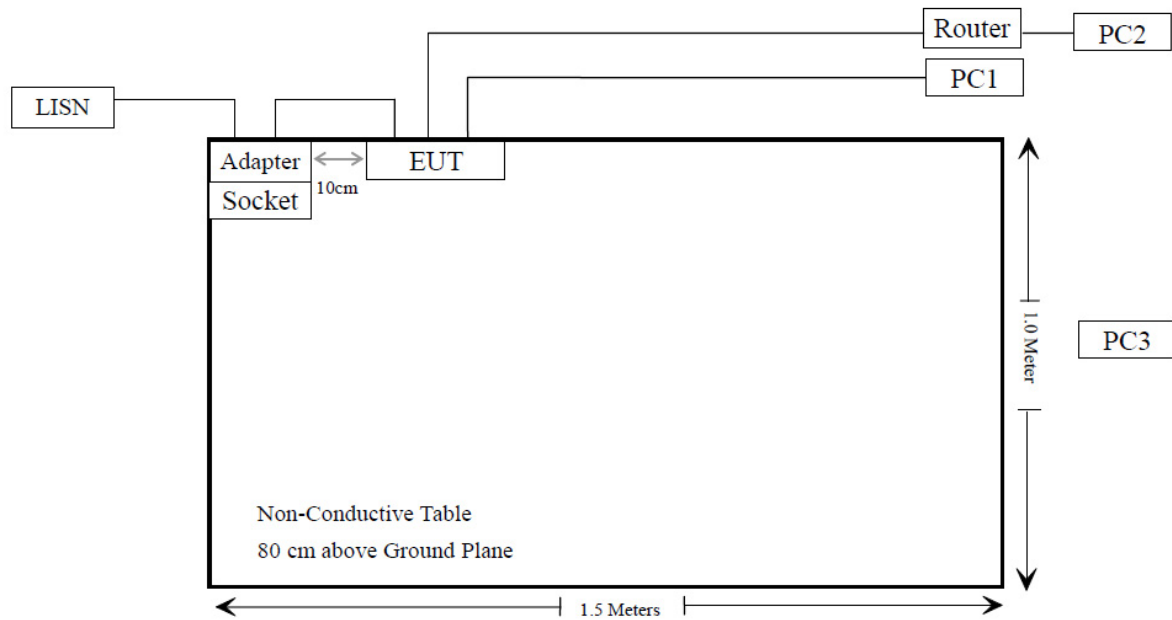


Test Mode 3:

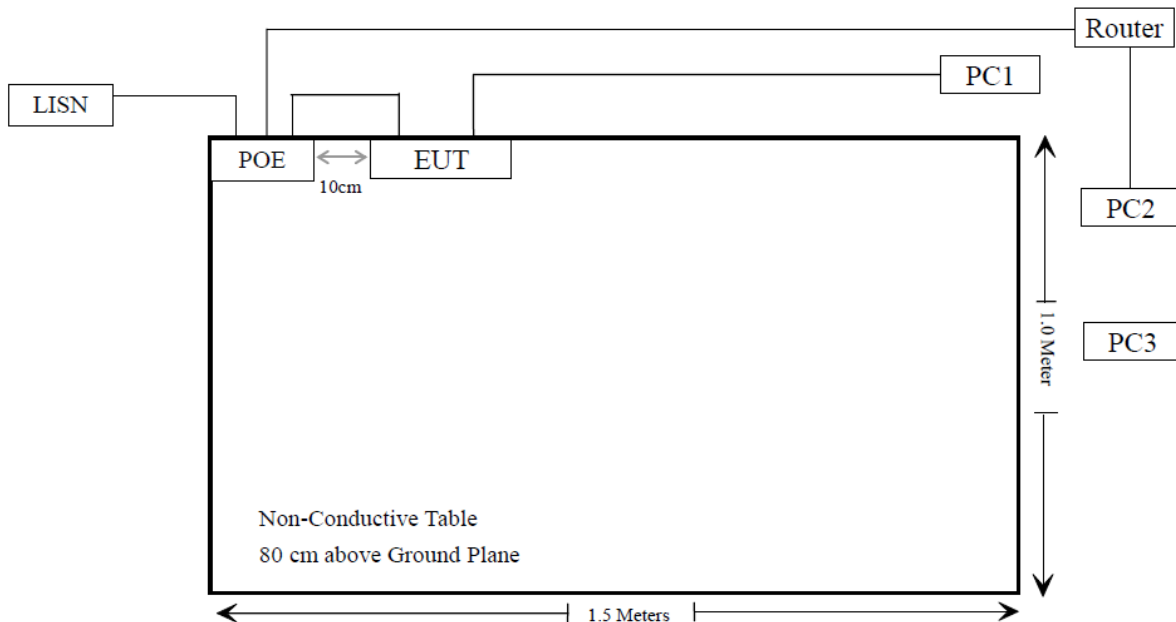


For Conducted Emission:

Test Mode 1&2:



Test Mode 3:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results
§15.107	AC Line Conducted Emissions	Compliant
§15.109	Radiated Emissions	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
AC Line 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	2025/04/29	2026/04/28
Unknown	CE Cable	Unknown	UF A210B-1-0720-504504	2025/04/29	2026/04/28
Audix	EMI Test software	E3	191218(V9)	NCR	NCR
Radiated Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESR3	102455	2024/12/04	2025/12/03
Sonoma instrument	Pre-amplifier	310 N	186238	2025/04/29	2026/04/28
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2023/07/20	2026/07/19
Unknown	Cable	Chamber A Cable 1	N/A	2025/04/29	2026/04/28
Unknown	Cable	XH500C	J-10M-A	2025/04/29	2026/04/28
Audix	EMI Test software	E3	19821b(V9)	NCR	NCR
Rohde & Schwarz	Spectrum Analyzer	FSV40	101605	2025/03/26	2026/03/25
A.H.System	Preamplifier	PAM-0118P	489	2024/11/15	2025/11/14
Schwarzbeck	Horn Antenna	BBHA9120D(1201)	1143	2023/07/26	2026/07/25
Unknown	RF Cable	KMSE	735	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
SNSD	2.4G Band Reject filter	BSF2402-2480MN-0898-001	2.4G filter	2025/06/26	2026/06/25
Audix	EMI Test software	E3	191218(V9)	NCR	NCR
A.H.System	Pre-amplifier	PAM-1840VH	190	2025/04/29	2026/04/28
UTIFLEX	RF Cable	NO. 13	232308-001	2024/12/18	2025/12/17
Electro-Mechanics Co	Horn Antenna	3116	9510-2270	2023/09/18	2026/09/17

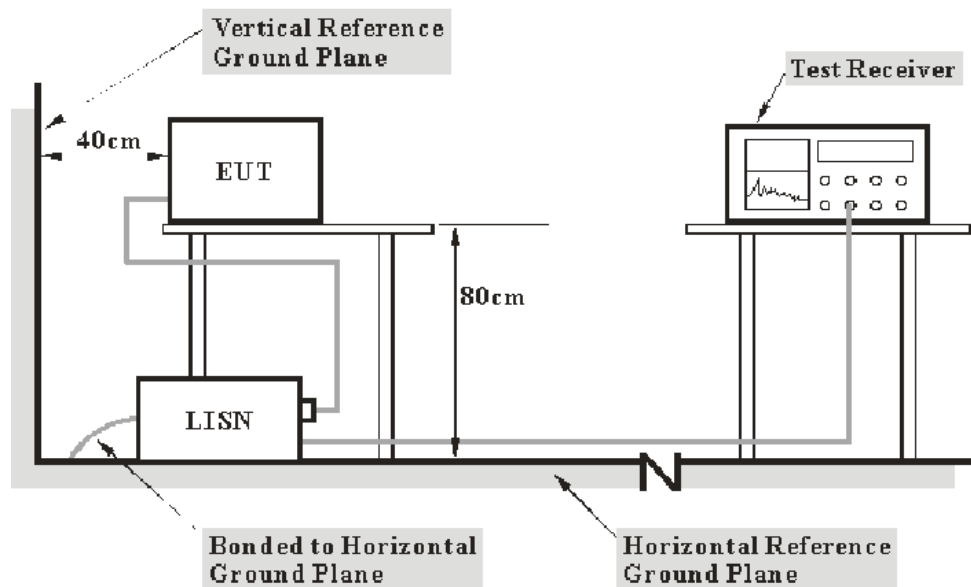
* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §15.107 - AC LINE CONDUCTED EMISSIONS

Applicable Standard

According to FCC§15.107

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 measurement procedure of EUT setup is according with ANSI C63.4-2014. The related limit was specified in FCC Part 15.107.

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

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
150 kHz – 30 MHz	9 kHz

Test Procedure

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.

Level & Over Limit Calculation

The Level is calculated by adding the LISN Factor, Cable Loss and the Read Level. The basic equation is as follows:

$$\text{Level (dBuV)} = \text{Read Level (dBuV)} + \text{LISN Factor} + \text{Cable Loss}$$

The “**Over limit**” column of the following data tables indicates the degree of compliance with the applicable limit.

$$\text{Over Limit (dB)} = \text{Level (dBuV)} - \text{Limit Line (dBuV)}$$

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

Test Data

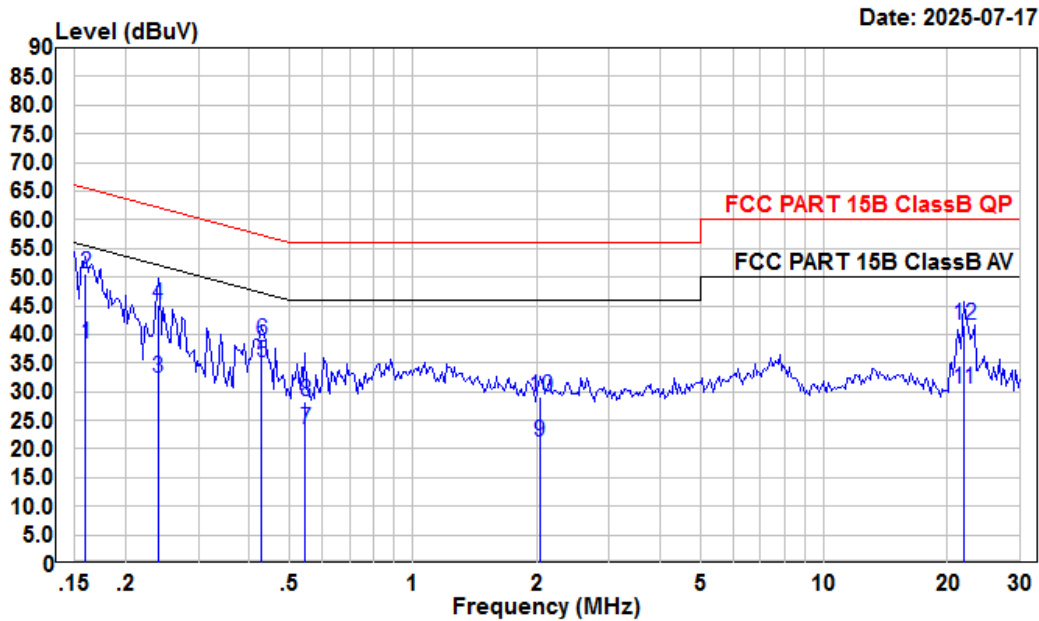
Environmental Conditions

Temperature:	26.4~26.5 °C
Relative Humidity:	61~69 %
ATM Pressure:	99.9~100.4 kPa

The testing was performed by Macy Shi on 2025-07-17 and Alex Yan on 2025-07-31.

Test Mode 1

AC 120V/60 Hz, Line



Condition: Line

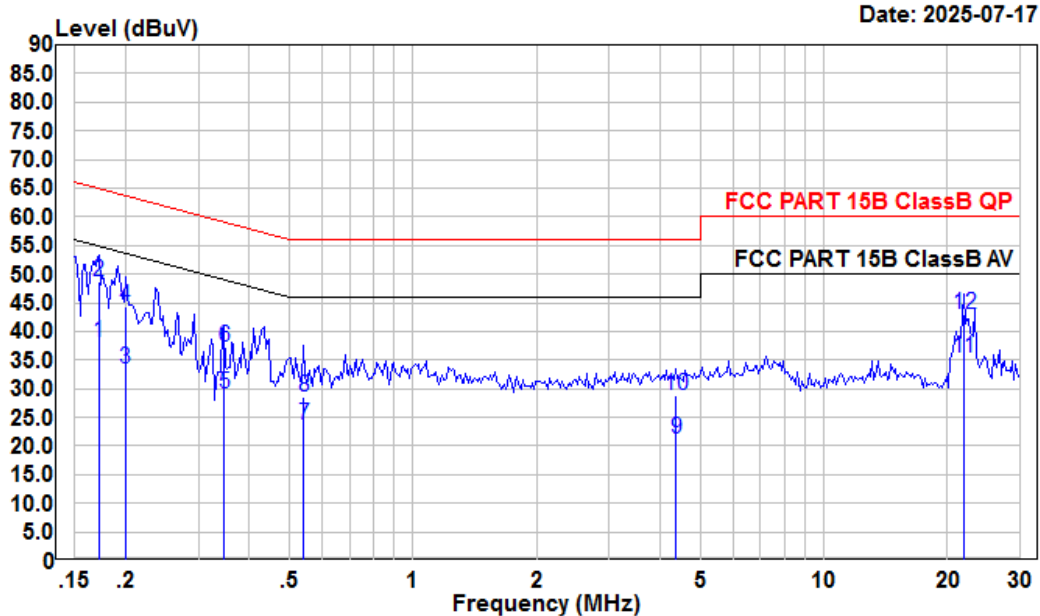
Project : 2501U16912E-EM

test Mode: Model

tester : Macy.shi Setting: RBW: 9kHz

	Freq	Read Level	LISN Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.160	17.67	38.31	10.47	10.17	55.47	-17.16	Average
2	0.160	29.90	50.54	10.47	10.17	65.47	-14.93	QP
3	0.239	11.50	32.36	10.66	10.20	52.13	-19.77	Average
4	0.239	24.41	45.27	10.66	10.20	62.13	-16.86	QP
5	0.428	14.33	35.07	10.53	10.21	47.29	-12.22	Average
6	0.428	18.09	38.83	10.53	10.21	57.29	-18.46	QP
7	0.546	2.57	23.38	10.61	10.20	46.00	-22.62	Average
8	0.546	7.45	28.26	10.61	10.20	56.00	-27.74	QP
9	2.033	-0.22	21.11	11.10	10.23	46.00	-24.89	Average
10	2.033	7.88	29.21	11.10	10.23	56.00	-26.79	QP
11	21.830	9.20	30.34	10.89	10.25	50.00	-19.66	Average
12	21.830	20.37	41.51	10.89	10.25	60.00	-18.49	QP

AC 120V/60 Hz, Neutral



Condition: Neutral

Project : 2501U16912E-EM

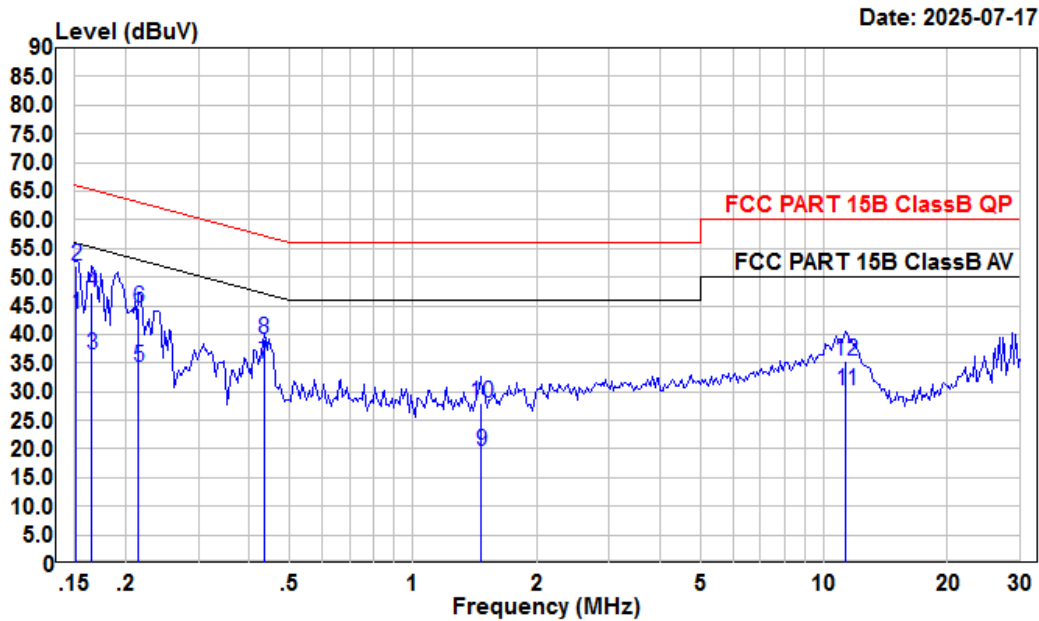
test Mode: Model1

tester : Macy.shi Setting:RBW:9kHz

	Freq	Read Level	LISN Level	Cable Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.172	17.35	38.13	10.59	10.19	54.86	-16.73	Average
2	0.172	27.87	48.65	10.59	10.19	64.86	-16.21	QP
3	0.200	12.50	33.49	10.80	10.19	53.62	-20.13	Average
4	0.200	23.42	44.41	10.80	10.19	63.62	-19.21	QP
5	0.346	8.34	29.14	10.62	10.18	49.05	-19.91	Average
6	0.346	16.38	37.18	10.62	10.18	59.05	-21.87	QP
7	0.541	3.01	23.73	10.52	10.20	46.00	-22.27	Average
8	0.541	7.91	28.63	10.52	10.20	56.00	-27.37	QP
9	4.361	-0.09	21.10	10.94	10.25	46.00	-24.90	Average
10	4.361	7.75	28.94	10.94	10.25	56.00	-27.06	QP
11	21.830	14.01	35.27	11.01	10.25	50.00	-14.73	Average
12	21.830	21.65	42.91	11.01	10.25	60.00	-17.09	QP

Test Mode 2

AC 120V/60 Hz, Line



Condition: Line

Project : 2501U16912E-EM

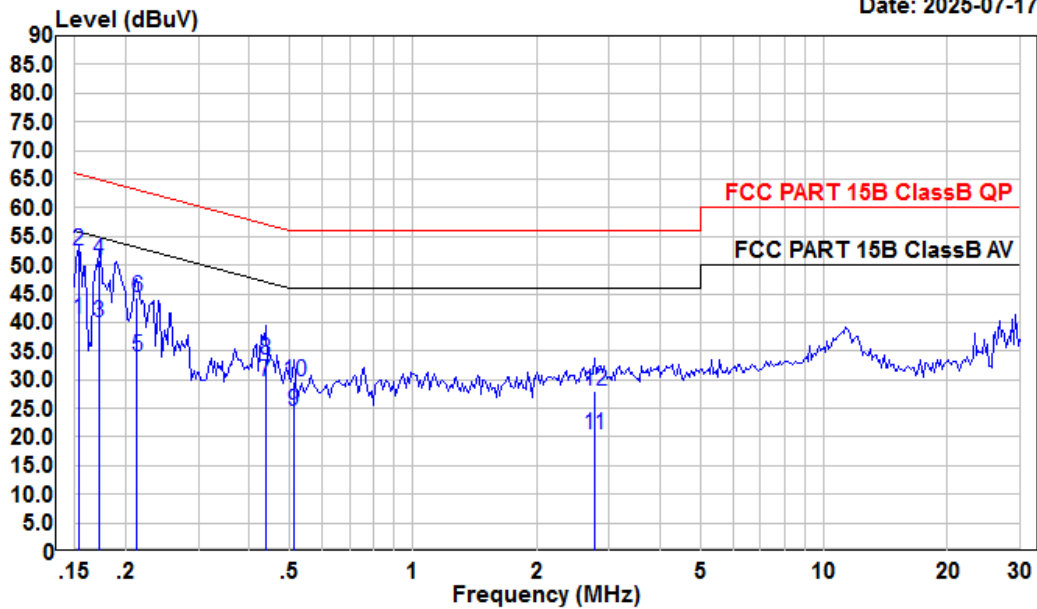
test Mode: Mode2

tester : Macy.shi Setting:RBW:9kHz

	Freq	Read Level	Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.152	22.89	43.46	10.41	10.16	55.91	-12.45	Average
2	0.152	31.31	51.88	10.41	10.16	65.91	-14.03	QP
3	0.165	15.90	36.58	10.50	10.18	55.21	-18.63	Average
4	0.165	26.70	47.38	10.50	10.18	65.21	-17.83	QP
5	0.215	13.46	34.33	10.68	10.19	53.01	-18.68	Average
6	0.215	23.77	44.64	10.68	10.19	63.01	-18.37	QP
7	0.433	14.17	34.91	10.53	10.21	47.20	-12.29	Average
8	0.433	18.53	39.27	10.53	10.21	57.20	-17.93	QP
9	1.464	-1.49	19.58	10.87	10.20	46.00	-26.42	Average
10	1.464	6.99	28.06	10.87	10.20	56.00	-27.94	QP
11	11.317	9.68	30.24	10.30	10.26	50.00	-19.76	Average
12	11.317	14.85	35.41	10.30	10.26	60.00	-24.59	QP

AC 120V/60 Hz, Neutral

Date: 2025-07-17



Condition: Neutral

Project : 2501U16912E-EM

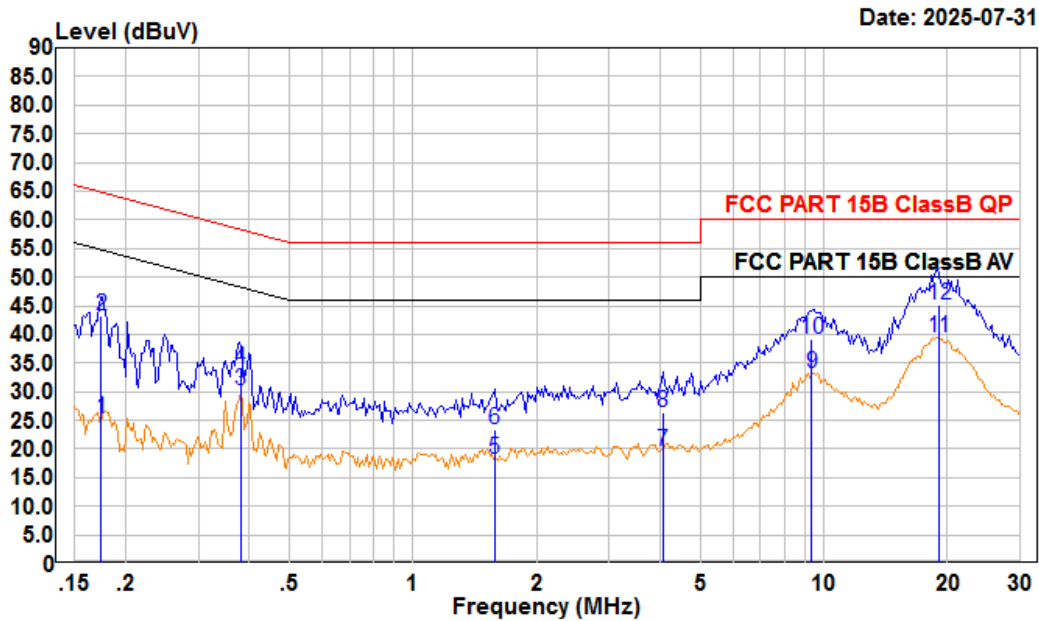
test Mode: Mode2

tester : Macy.shi Setting:RBW:9kHz

	Read Freq	Level dBuV	LISN Level dBuV	Cable Factor dB	Limit Line dB	Over Limit dB	Remark
	MHz						
1	0.153	20.05	40.64	10.43	10.16	55.82	-15.18 Average
2	0.153	31.85	52.44	10.43	10.16	65.82	-13.38 QP
3	0.172	19.20	39.98	10.59	10.19	54.86	-14.88 Average
4	0.172	30.10	50.88	10.59	10.19	64.86	-13.98 QP
5	0.213	13.14	34.11	10.78	10.19	53.10	-18.99 Average
6	0.213	23.36	44.33	10.78	10.19	63.10	-18.77 QP
7	0.437	8.96	29.71	10.54	10.21	47.11	-17.40 Average
8	0.437	12.67	33.42	10.54	10.21	57.11	-23.69 QP
9	0.513	3.81	24.51	10.51	10.19	46.00	-21.49 Average
10	0.513	8.87	29.57	10.51	10.19	56.00	-26.43 QP
11	2.765	-0.83	20.27	10.84	10.26	46.00	-25.73 Average
12	2.765	7.00	28.10	10.84	10.26	56.00	-27.90 QP

Test Mode 3

AC 120V/60 Hz, Line



Condition: Line

Project : 2501U16912E-EM

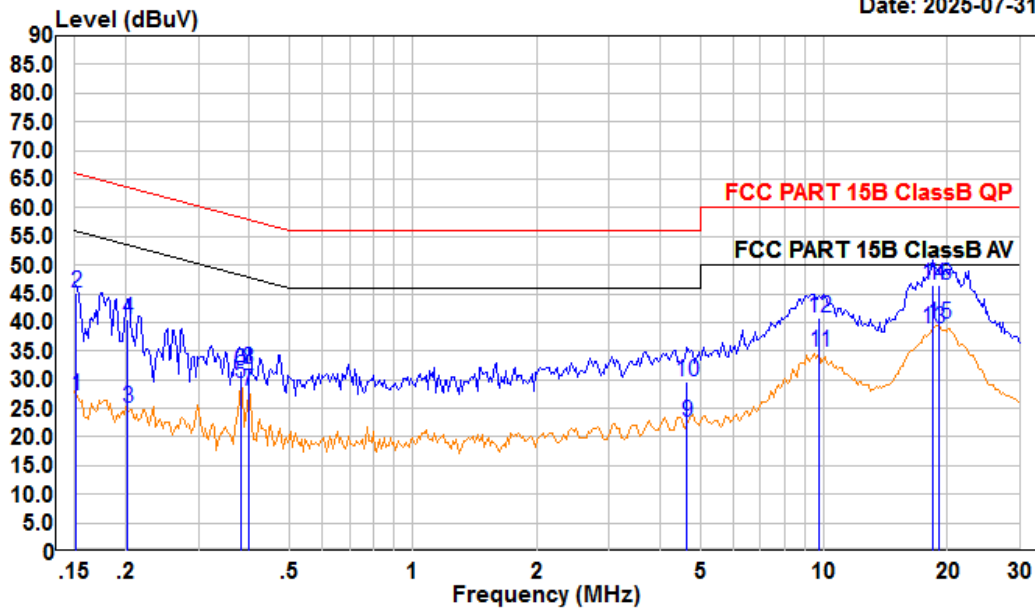
test Mode: Mode3

tester : Alex Yan Setting:RBW:9kHz

	Freq	Read Level	Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.174	4.59	25.33	10.55	10.19	54.77	-29.44	Average
2	0.174	22.49	43.23	10.55	10.19	64.77	-21.54	QP
3	0.381	9.43	30.19	10.56	10.20	48.26	-18.07	Average
4	0.381	13.16	33.92	10.56	10.20	58.26	-24.34	QP
5	1.577	-2.80	18.34	10.93	10.21	46.00	-27.66	Average
6	1.577	2.14	23.28	10.93	10.21	56.00	-32.72	QP
7	4.049	-1.50	19.63	10.89	10.24	46.00	-26.37	Average
8	4.049	5.21	26.34	10.89	10.24	56.00	-29.66	QP
9	9.352	12.66	33.27	10.36	10.25	50.00	-16.73	Average
10	9.352	18.61	39.22	10.36	10.25	60.00	-20.78	QP
11	19.021	18.30	39.43	10.88	10.25	50.00	-10.57	Average
12	19.021	24.12	45.25	10.88	10.25	60.00	-14.75	QP

AC 120V/60 Hz, Neutral

Date: 2025-07-31



Trace: 1

Condition: Neutral

Project : 2501U16912E-EM

test Mode: Mode3

tester : Alex Yan Setting:RBW:9kHz

	Read Freq	Level dBuV	LISN Level dBuV	Cable Factor dB	Limit Line dBuV	Over Limit dB	Remark
	MHz						
1	0.152	6.51	27.08	10.41	10.16	55.91	-28.83 Average
2	0.152	24.55	45.12	10.41	10.16	65.91	-20.79 QP
3	0.202	3.92	24.91	10.80	10.19	53.54	-28.63 Average
4	0.202	19.43	40.42	10.80	10.19	63.54	-23.12 QP
5	0.381	8.59	29.38	10.59	10.20	48.26	-18.88 Average
6	0.381	10.86	31.65	10.59	10.20	58.26	-26.61 QP
7	0.398	7.17	27.97	10.58	10.22	47.90	-19.93 Average
8	0.398	10.91	31.71	10.58	10.22	57.90	-26.19 QP
9	4.647	1.41	22.57	10.89	10.27	46.00	-23.43 Average
10	4.647	8.41	29.57	10.89	10.27	56.00	-26.43 QP
11	9.757	13.95	34.72	10.51	10.26	50.00	-15.28 Average
12	9.757	19.96	40.73	10.51	10.26	60.00	-19.27 Peak
13	18.426	17.63	38.76	10.87	10.26	50.00	-11.24 Average
14	18.426	25.32	46.45	10.87	10.26	60.00	-13.55 QP
15	19.021	18.55	39.76	10.96	10.25	50.00	-10.24 Average
16	19.021	25.30	46.51	10.96	10.25	60.00	-13.49 QP

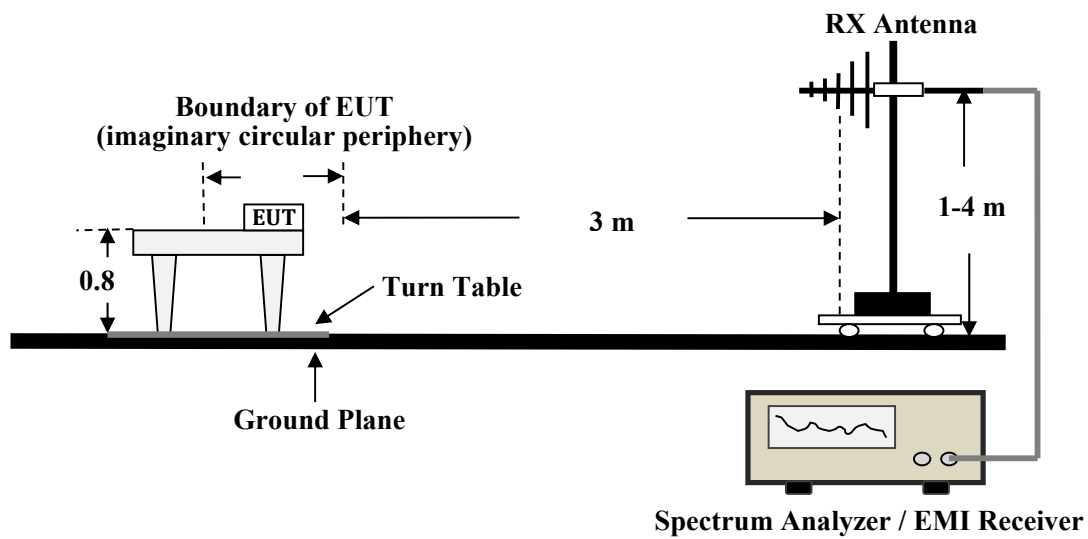
FCC §15.109 - RADIATED EMISSIONS

Applicable Standard

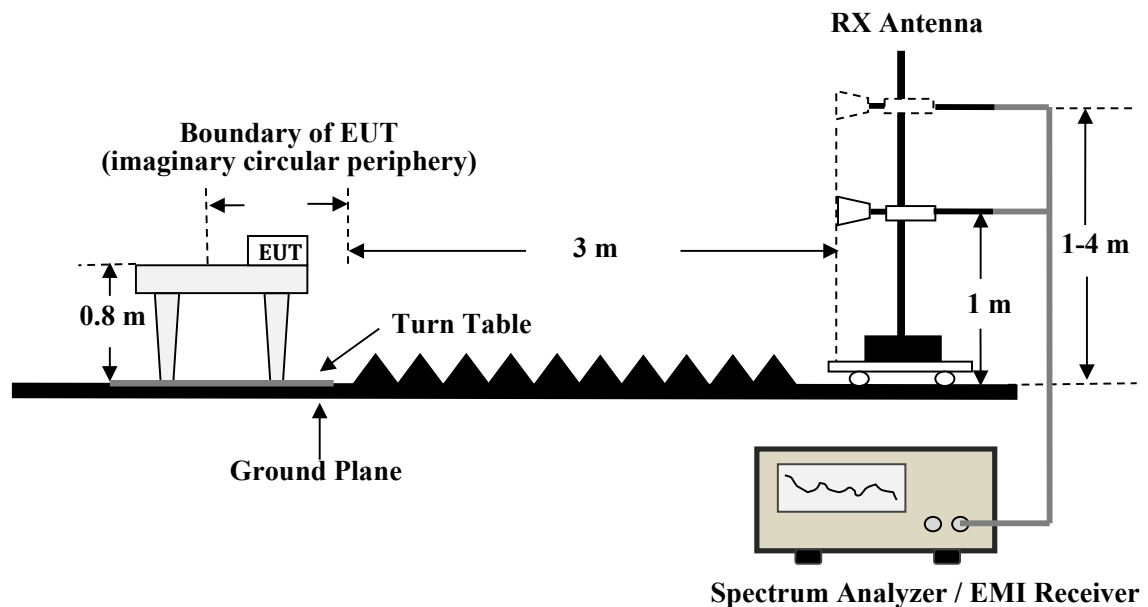
FCC §15.109

EUT Setup

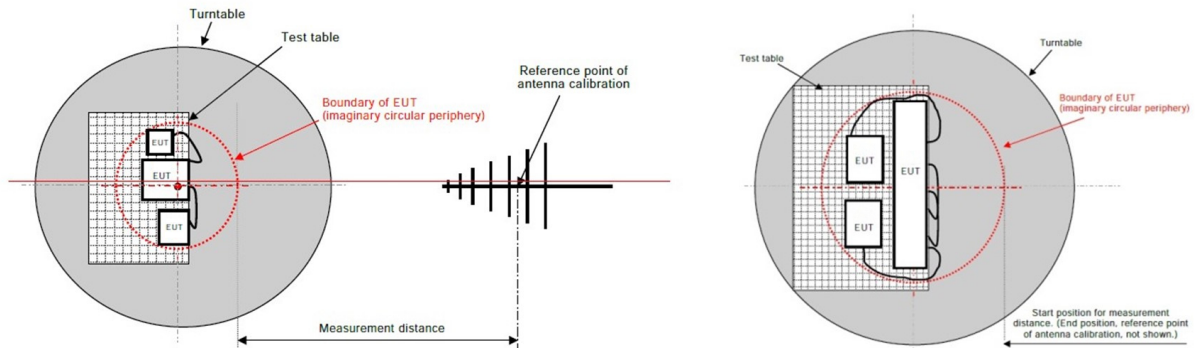
Below 1GHz for Radiated Emissions



Above 1GHz for Radiated Emissions



Radiated Emissions Setup Configuration



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2014. The related limit was specified in FCC Part 15B.

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

The spacing between the peripherals was 10 cm.

EMI Test Receiver and Spectrum analyzer Setup

During the radiated emission test, the EMI test receiver and spectrum analyzer setup was set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
	1MHz	10 Hz	/	PK

Test Procedure

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

If emission level of the EUT in Peak measurement mode is 20dB lower than peak limit line (that means the emission level in Peak measurement mode complies with both Peak and average limit lines) then only Peak measurement result is reported .Otherwise, Emission in average measurement mode shall be measured, and reported for frequency range above 1GHz.

Level & Over Limit Calculation

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

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

$$\text{Level} = \text{Read Level} + \text{Factor}$$

The “Over limit” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over limit of -6 dB means the emission is 6dB below the limit for Class B. The equation for Over Limit calculation is as follows:

$$\text{Over limit} = \text{Level} - \text{Limit}$$

Test Data

Environmental Conditions

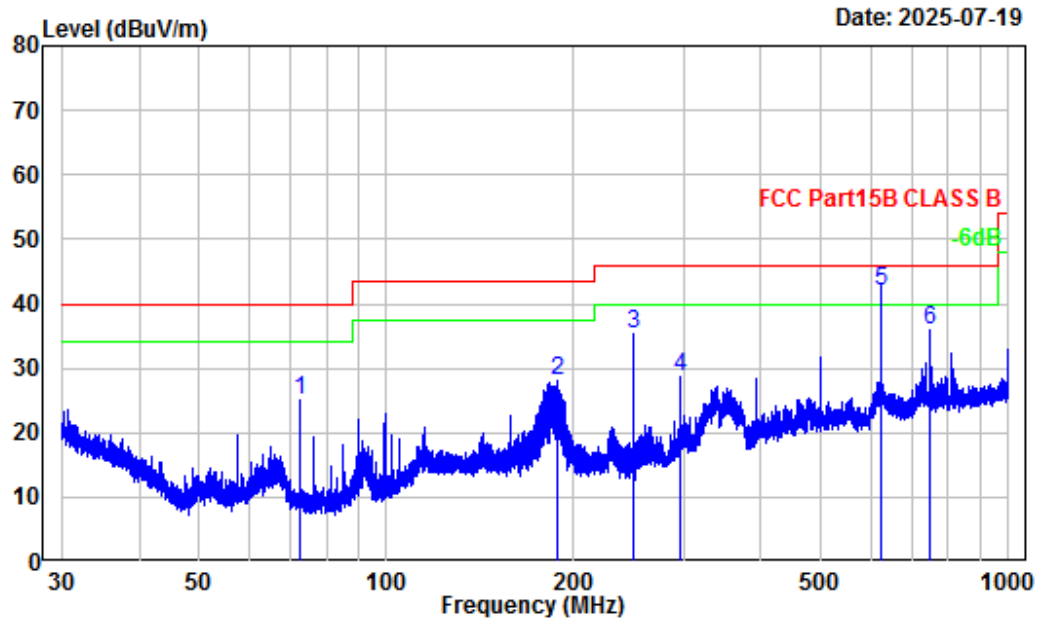
Temperature:	21.2~25.1 °C
Relative Humidity:	52 %
ATM Pressure:	99.6~100.1 kPa

The testing was performed by Anson Su on 2025-07-19 for below 1GHz and Ive Wang on 2025-07-21 for above 1GHz.

Test Mode 1

30 MHz~1 GHz

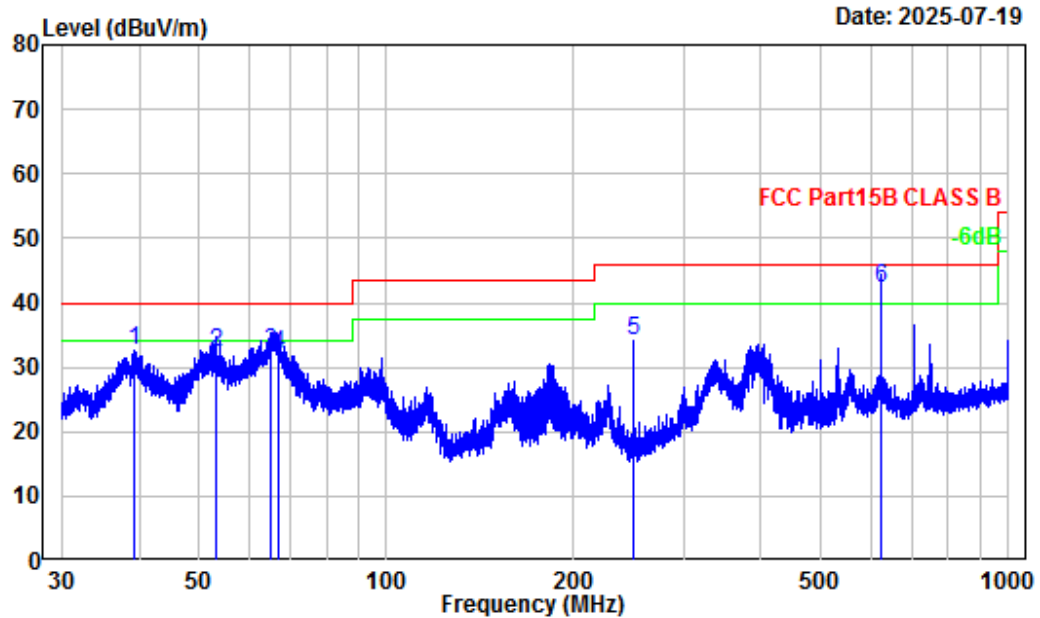
Horizontal



Site : Chamber A
Condition : 3m Horizontal
Project Number : 2501U16912E-EM
Test Mode : Mode 1
Detector: Peak RBW/VBW: 100/300kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	72.72	-17.85	42.79	24.94	40.00	-15.06	Peak
2	188.74	-14.17	42.28	28.11	43.50	-15.39	Peak
3	249.97	-13.09	48.33	35.24	46.00	-10.76	Peak
4	296.18	-11.21	39.99	28.78	46.00	-17.22	Peak
5	625.08	-4.65	46.60	41.95	46.00	-4.05	QP
6	750.11	-2.88	38.93	36.05	46.00	-9.95	Peak

Vertical

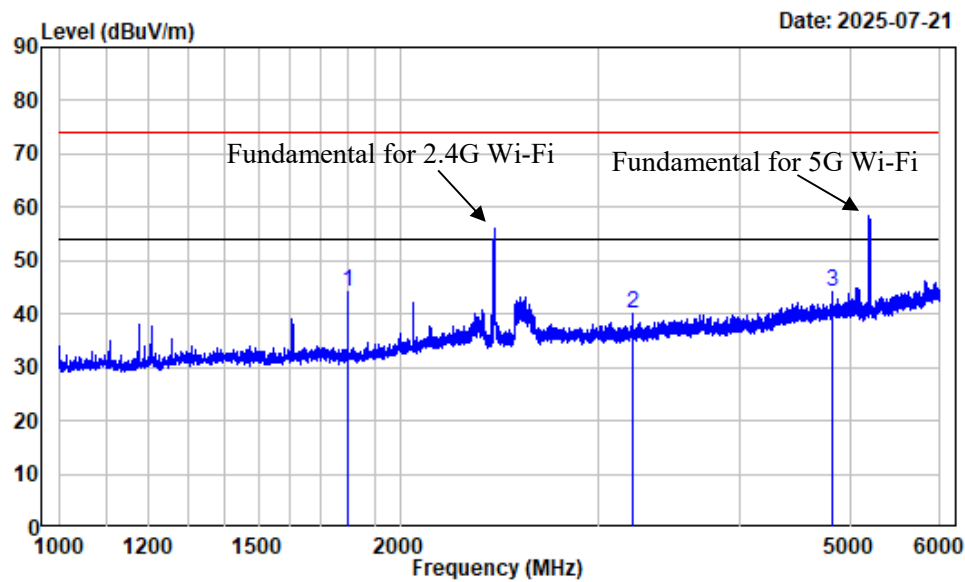


Site : Chamber A
Condition : 3m Vertical
Project Number : 2501U16912E-EM
Test Mode : Mode 1
Detector: Peak RBW/VBW: 100/300kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	39.39	-11.94	44.64	32.70	40.00	-7.30	Peak
2	53.01	-18.32	50.60	32.28	40.00	-7.72	QP
3	65.20	-17.97	50.40	32.43	40.00	-7.57	QP
4	67.08	-17.88	49.90	32.02	40.00	-7.98	QP
5	250.08	-13.09	47.12	34.03	46.00	-11.97	Peak
6	625.08	-4.65	47.00	42.35	46.00	-3.65	QP

1 ~ 6 GHz

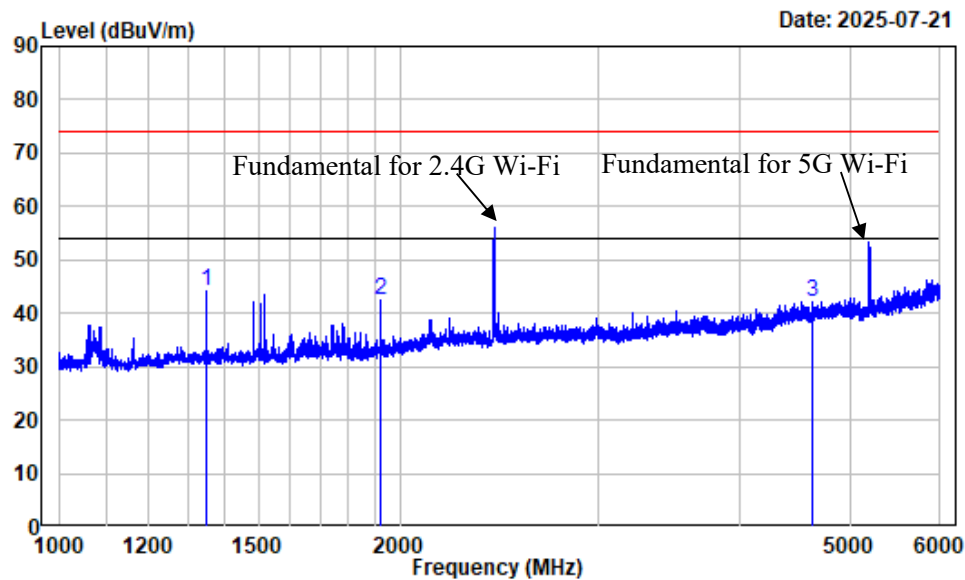
Horizontal



Site : chamber B
Condition : Horizontal
Project Number : 2501U16912E-EM
Test mode : Mode1
Tester : Ive Wang
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1800.725	-14.02	58.26	44.24	74.00	-29.76 Peak
2	3216.527	-10.54	50.69	40.15	74.00	-33.85 Peak
3	4824.228	-7.75	51.81	44.06	74.00	-29.94 Peak

Vertical

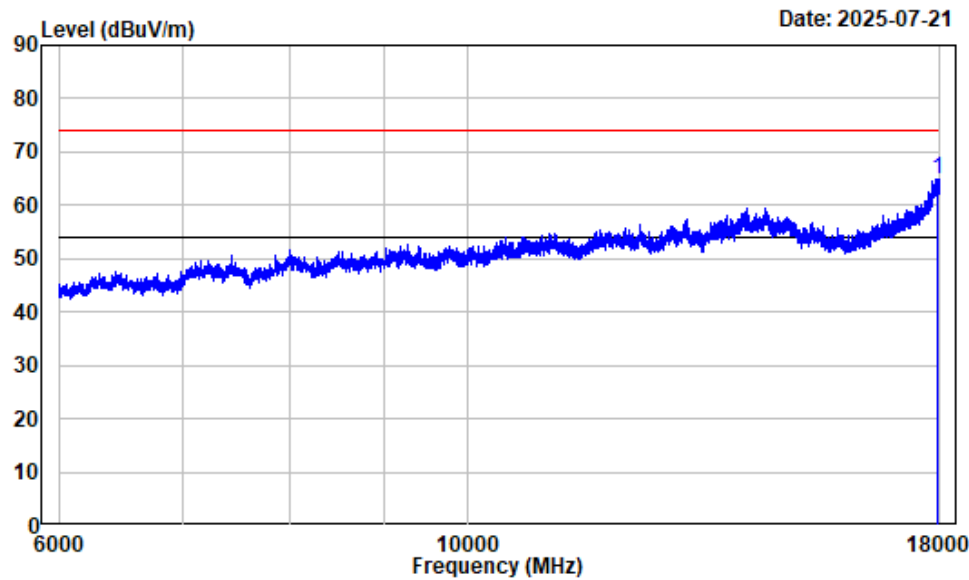


Site : chamber B
Condition : Vertical
Project Number : 2501U16912E-EM
Test mode : Mode1
Tester : Ive Wang
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1350.669	-14.28	58.31	44.03	74.00	-29.97 Peak
2	1924.491	-13.24	55.56	42.32	74.00	-31.68 Peak
3	4631.704	-8.20	50.48	42.28	74.00	-31.72 Peak

6 ~ 18 GHz

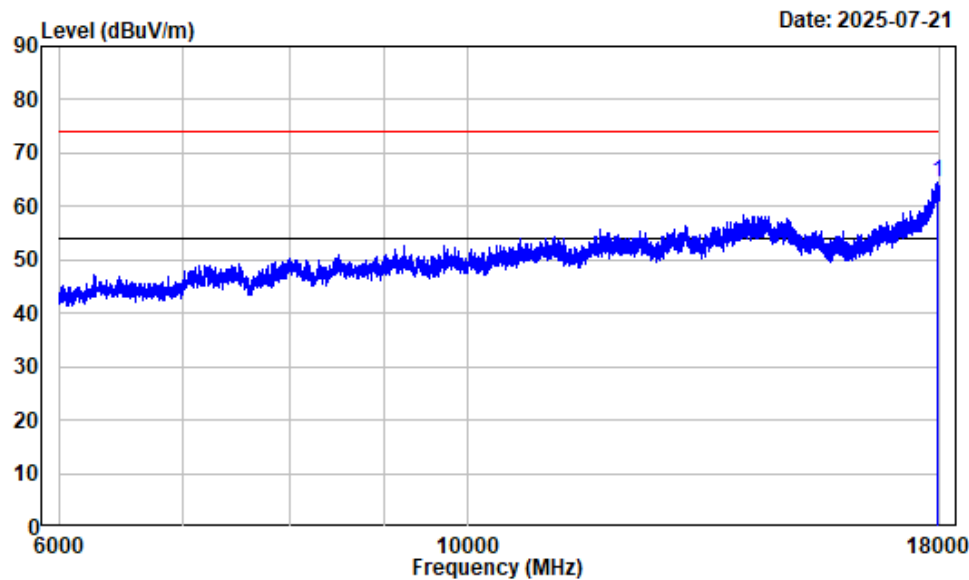
Horizontal-Peak



Site : chamber B
Condition : Horizontal
Project Number : 2501U16912E-EM
Test mode : Mode1
Tester : Ive Wang
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	17956.490	12.99	52.03	65.02	74.00	-8.98 Peak

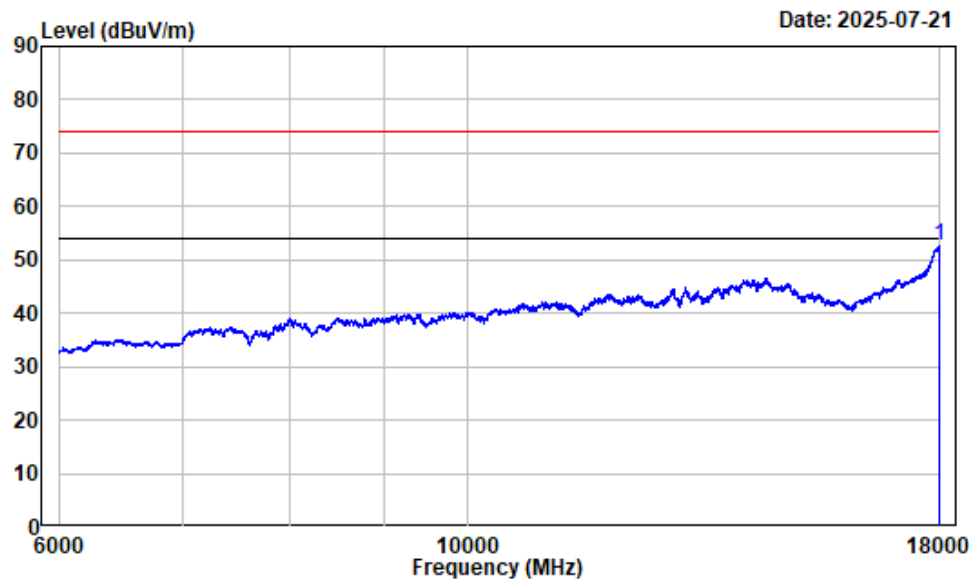
Vertical-Peak



Site : chamber B
Condition : Vertical
Project Number : 2501U16912E-EM
Test mode : Mode1
Tester : Ive Wang
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	17938.490	12.89	51.57	64.46	74.00	-9.54 Peak

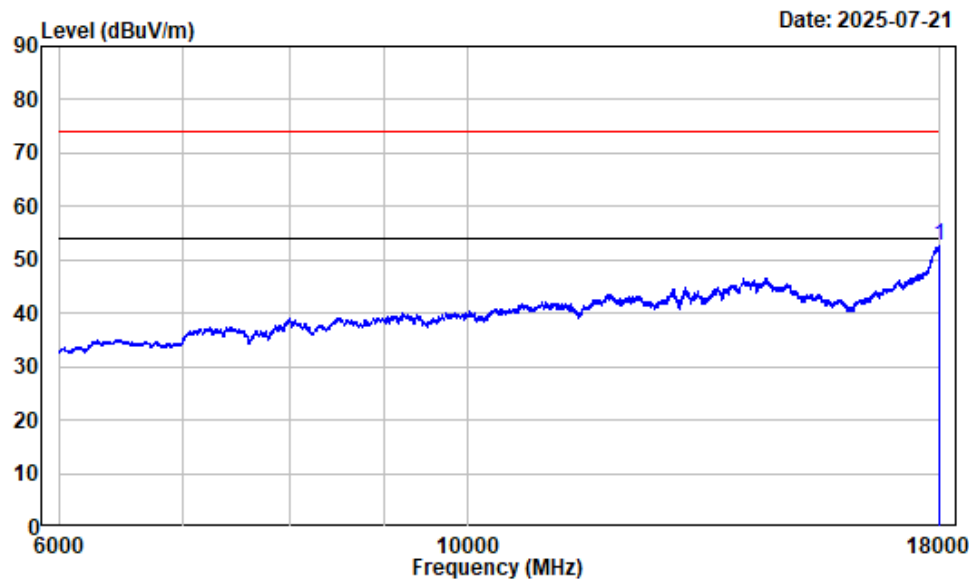
Horizontal-Average



Site : chamber B
Condition : Horizontal
Project Number : 2501U16912E-EM
Test mode : Mode1
Tester : Ive Wang
Spectrum setting: Average reading: RBW:1MHz VBW:10Hz Detector:Peak

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	17994.000	13.18	39.51	52.69	54.00	-1.31 Average

Vertical-Average

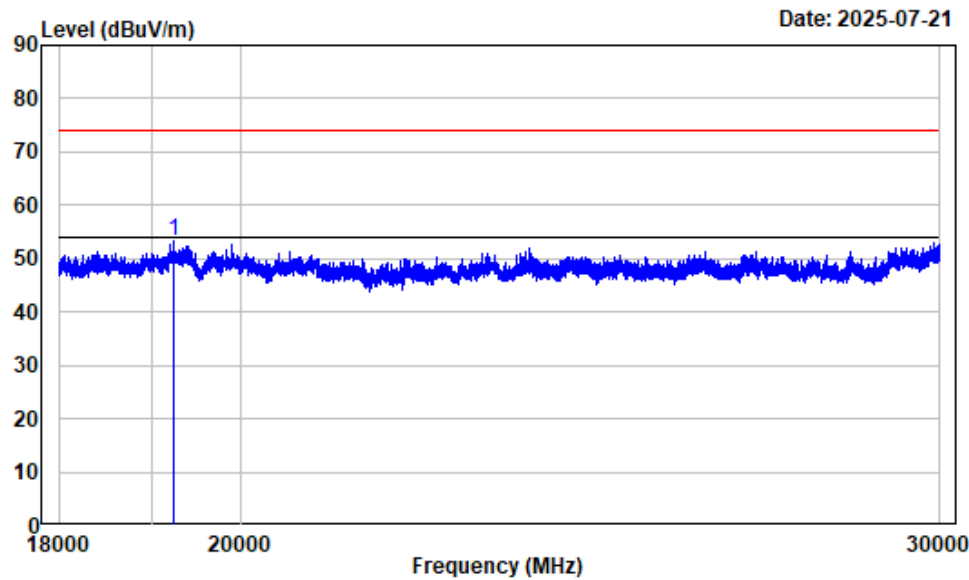


Site : chamber B
Condition : Vertical
Project Number : 2501U16912E-EM
Test mode : Mode1
Tester : Ive Wang
Spectrum setting: Average reading: RBW:1MHz VBW:10Hz Detector:Peak

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	17998.500	13.19	39.49	52.68	54.00	-1.32 Average

18 ~ 30 GHz

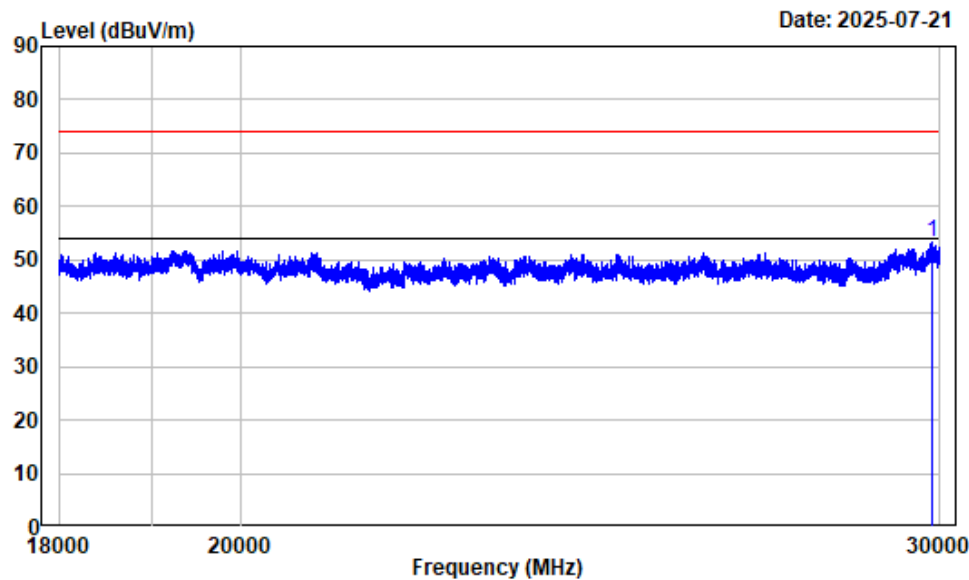
Horizontal



Site : chamber B
Condition : Horizontal
Project Number : 2501U16912E-EM
Test mode : Mode1
Tester : Ive Wang
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 19236.150	15.42	37.80	53.22	74.00	-20.78	peak

Vertical



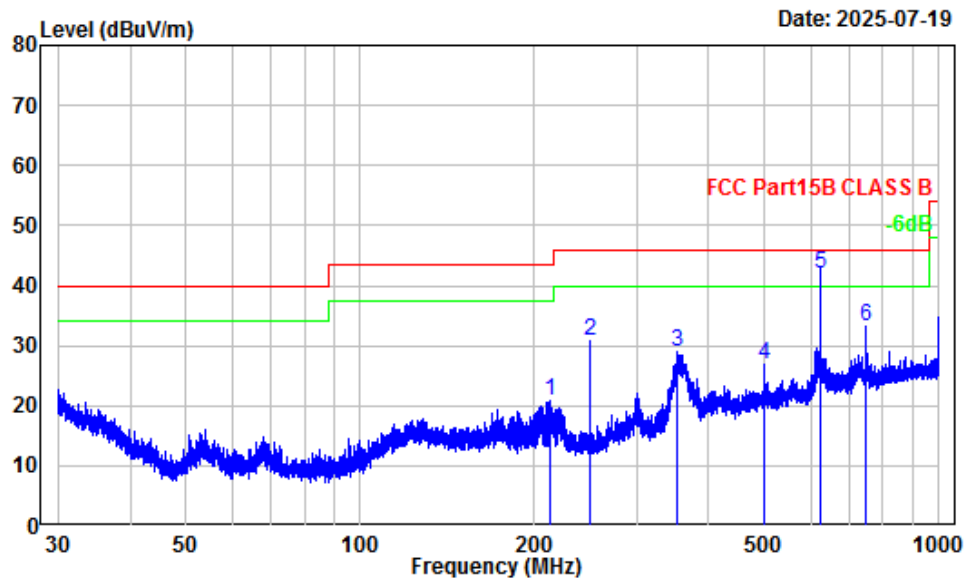
Site : chamber B
Condition : Vertical
Project Number : 2501U16912E-EM
Test mode : Mode1
Tester : Ive Wang
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	29869.480	18.77	34.43	53.20	74.00	-20.80 peak

Test Mode 2

30 MHz~1 GHz

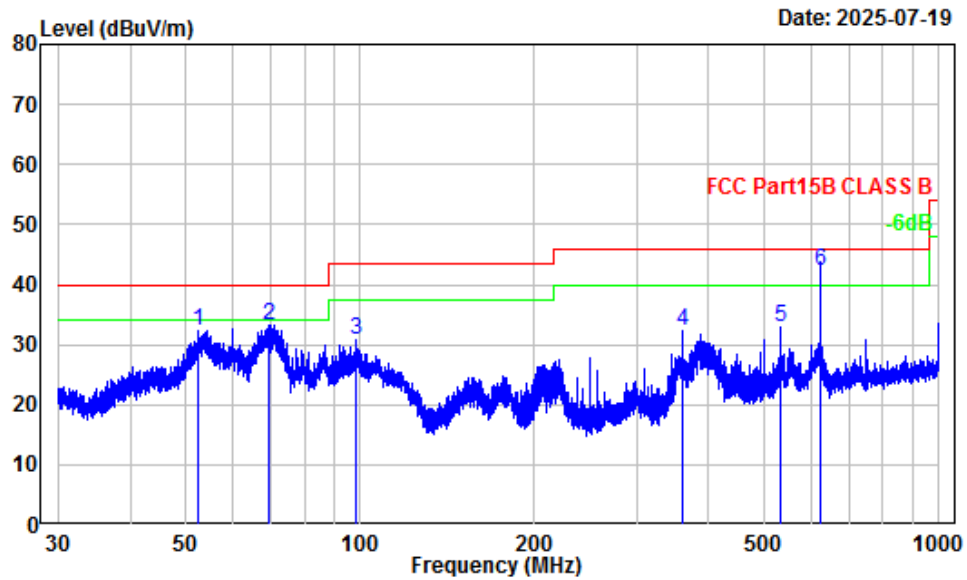
Horizontal



Site : Chamber A
Condition : 3m Horizontal
Project Number : 2501U16912E-EM
Test Mode : Mode 2
Detector: Peak RBW/VBW: 100/300kHz
Tester : Anson Su

	Freq	Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	212.64	-14.13	35.01	20.88	43.50	-22.62	Peak
2	249.97	-13.09	43.85	30.76	46.00	-15.24	Peak
3	353.87	-10.05	39.09	29.04	46.00	-16.96	Peak
4	500.08	-5.76	32.78	27.02	46.00	-18.98	Peak
5	625.08	-4.65	46.60	41.95	46.00	-4.05	QP
6	750.11	-2.88	35.94	33.06	46.00	-12.94	Peak

Vertical

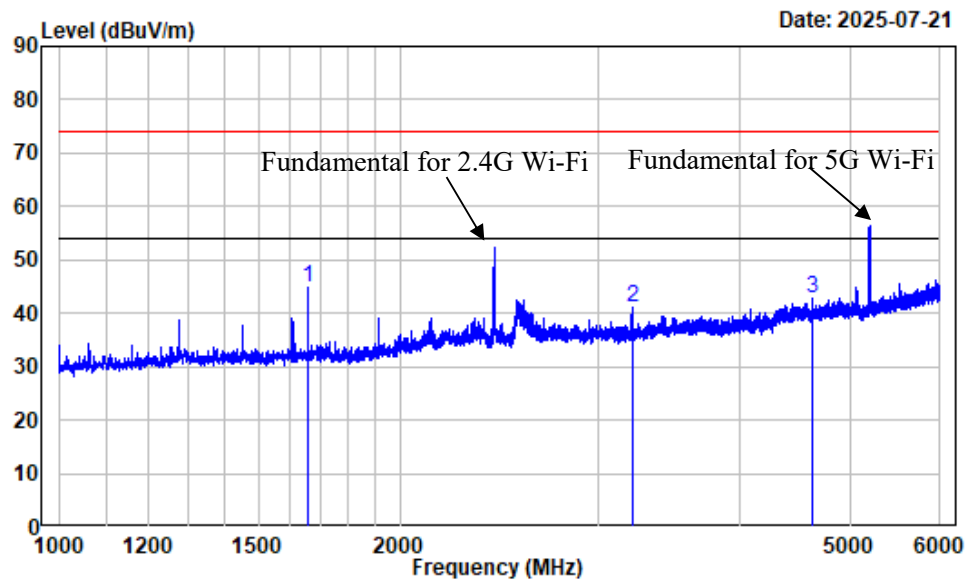


Site : Chamber A
Condition : 3m Vertical
Project Number : 2501U16912E-EM
Test Mode : Mode 2
Detector: Peak RBW/VBW: 100/300kHz
Tester : Anson Su

	Freq	Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	52.55	-18.27	50.51	32.24	40.00	-7.76	Peak
2	69.63	-17.87	51.16	33.29	40.00	-6.71	Peak
3	98.36	-16.40	47.28	30.88	43.50	-12.62	Peak
4	361.56	-9.82	42.11	32.29	46.00	-13.71	Peak
5	533.13	-5.75	38.70	32.95	46.00	-13.05	Peak
6	625.08	-4.65	47.00	42.35	46.00	-3.65	QP

1 ~ 6 GHz

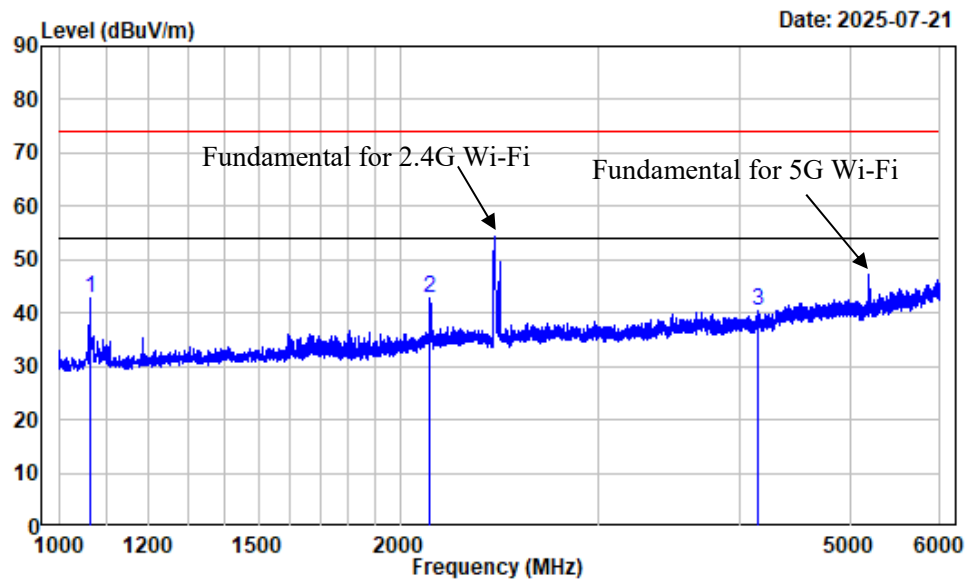
Horizontal



Site : chamber B
Condition : Horizontal
Project Number : 2501U16912E-EM
Test mode : Mode2
Tester : Ive Wang
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1661.333	-13.99	58.99	45.00	74.00	-29.00 Peak
2	3216.527	-10.54	51.78	41.24	74.00	-32.76 Peak
3	4635.455	-8.20	50.85	42.65	74.00	-31.35 Peak

Vertical

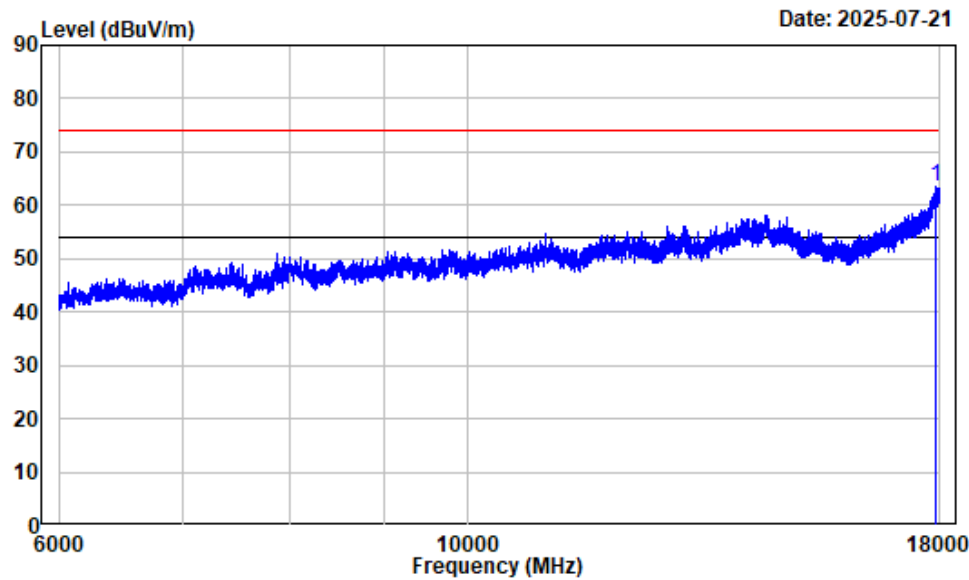


Site : chamber B
Condition : Vertical
Project Number : 2501U16912E-EM
Test mode : Mode2
Tester : Ive Wang
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1065.008	-15.37	58.11	42.74	74.00	-31.26 Peak
2	2128.266	-11.60	54.30	42.70	74.00	-31.30 Peak
3	4148.519	-9.54	50.01	40.47	74.00	-33.53 Peak

6 ~ 18 GHz

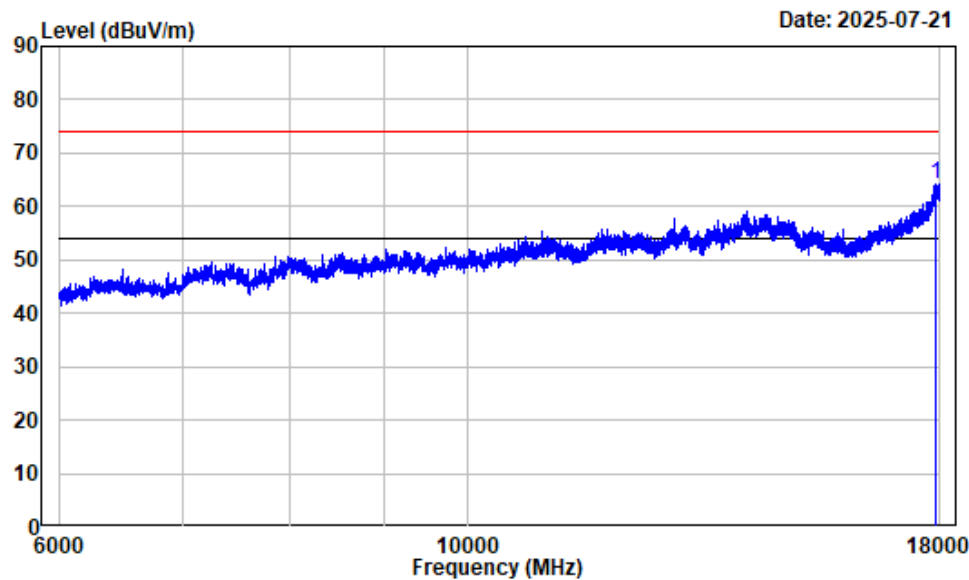
Horizontal-Peak



Site : chamber B
Condition : Horizontal
Project Number : 2501U16912E-EM
Test mode : Mode2
Tester : Ive Wang
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak

Freq	Factor	Read		Limit	Over	Remark
		Level	Level	Line	Limit	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 17891.990	12.55	50.79	63.34	74.00	-10.66	Peak

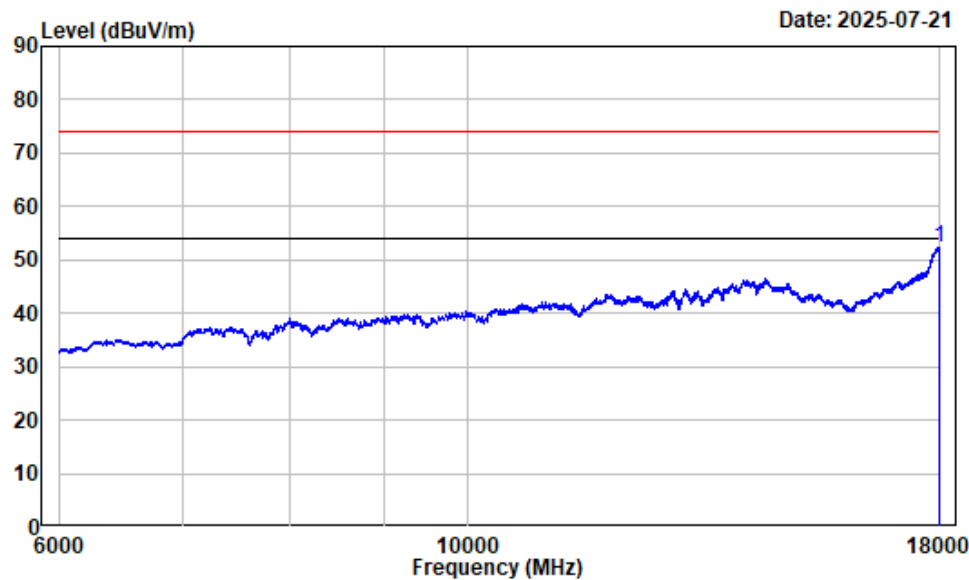
Vertical-Peak



Site : chamber B
Condition : Vertical
Project Number : 2501U16912E-EM
Test mode : Mode2
Tester : Ive Wang
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	17890.490	12.53	51.68	64.21	74.00	-9.79 Peak

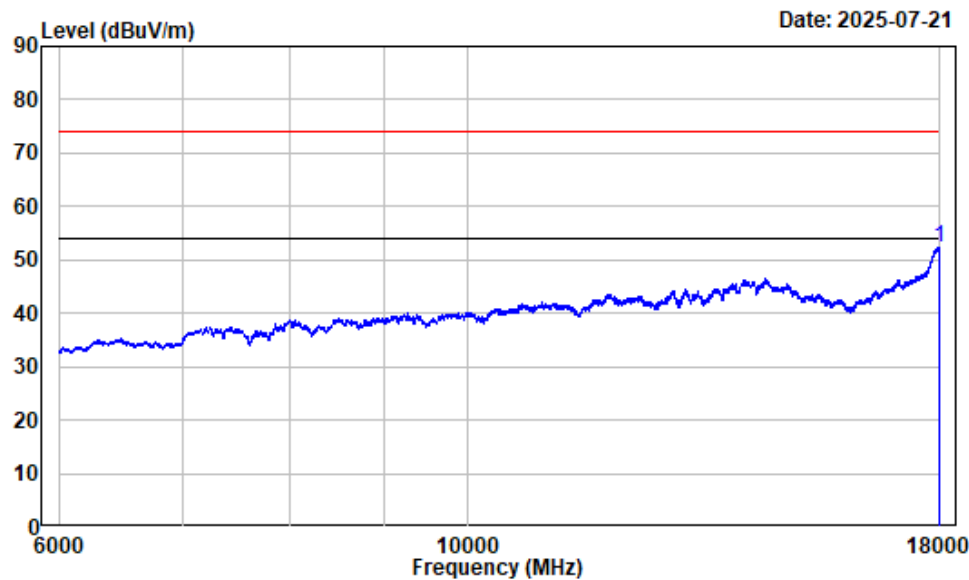
Horizontal-Average



Site : chamber B
Condition : Horizontal
Project Number : 2501U16912E-EM
Test mode : Mode2
Tester : Ive Wang
Spectrum setting: Average reading: RBW:1MHz VBW:10Hz Detector:Peak

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	18000.000	13.20	39.16	52.36	54.00	-1.64 Average

Vertical-Average

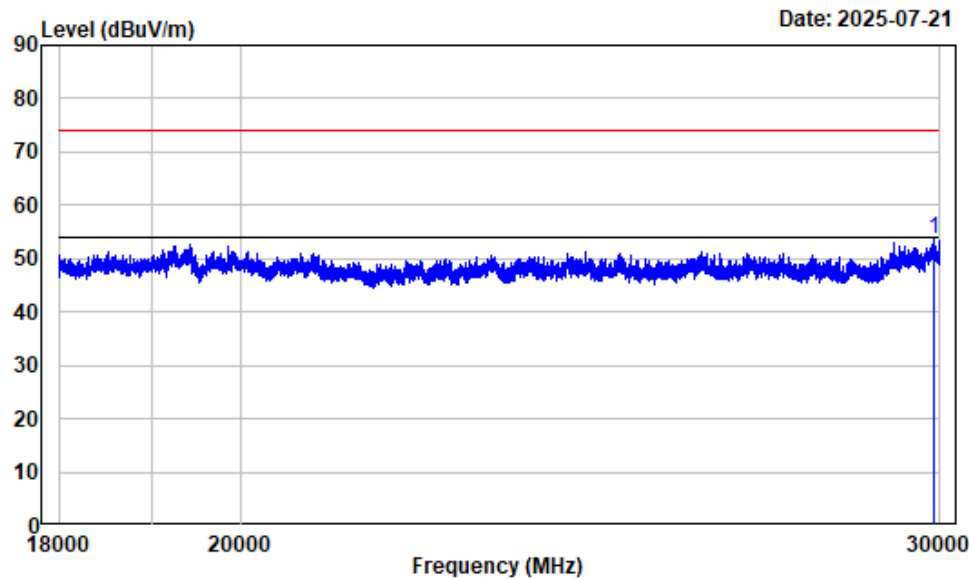


Site : chamber B
Condition : Vertical
Project Number : 2501U16912E-EM
Test mode : Mode2
Tester : Ive Wang
Spectrum setting: Average reading: RBW:1MHz VBW:10Hz Detector:Peak

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	17989.500	13.16	39.27	52.43	54.00	-1.57 Average

18 ~ 30 GHz

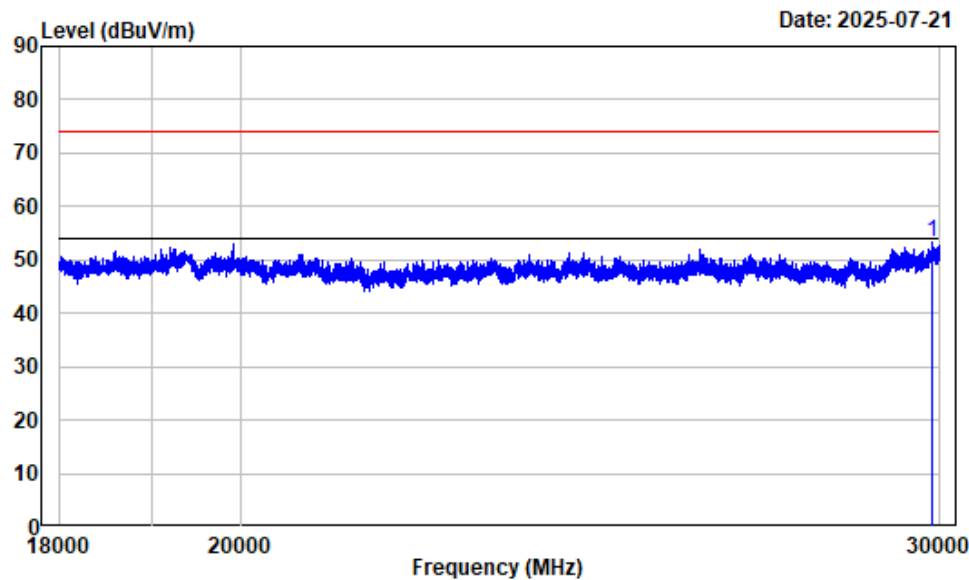
Horizontal



Site : chamber B
Condition : Horizontal
Project Number : 2501U16912E-EM
Test mode : Mode2
Tester : Ive Wang
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak

Freq	Factor	Read		Limit	Over	Remark
		Level	Level	Line	Limit	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 29885.990	18.78	34.84	53.62	74.00	-20.38	peak

Vertical



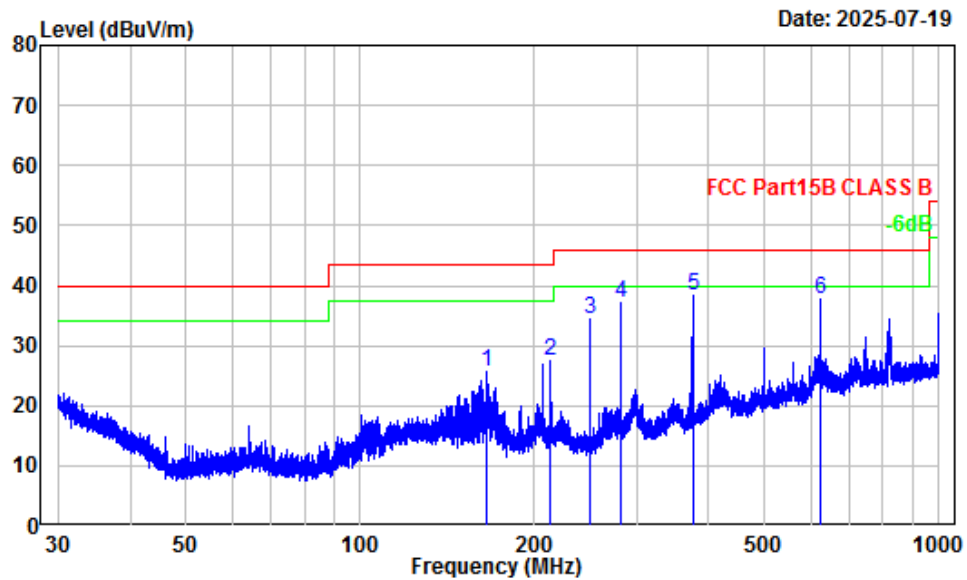
Site : chamber B
Condition : Vertical
Project Number : 2501U16912E-EM
Test mode : Mode2
Tester : Ive Wang
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak

Freq	Factor	Read		Limit	Over	Remark
		Level	Level	Line	Limit	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 29852.980	18.76	34.42	53.18	74.00	-20.82	peak

Test Mode 3

30 MHz~1 GHz

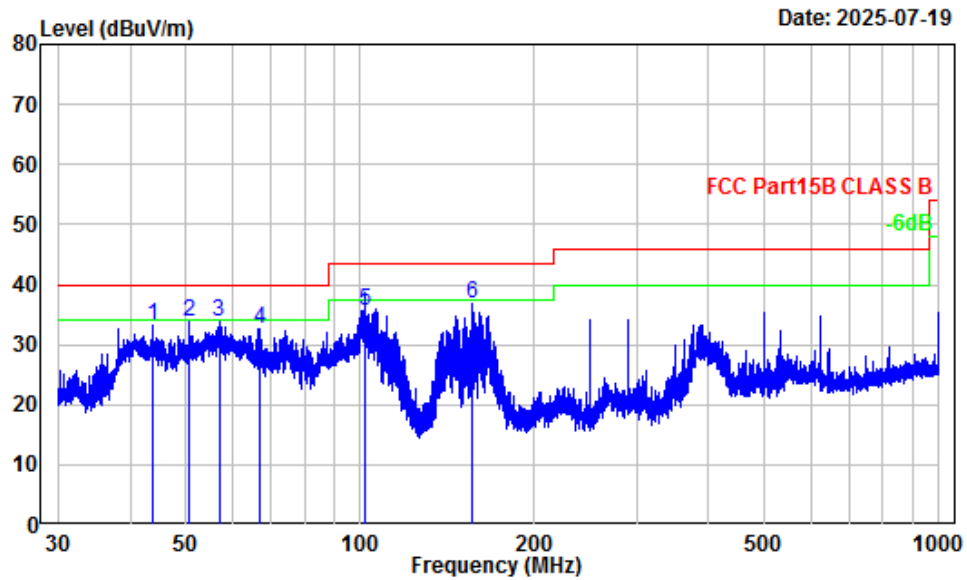
Horizontal



Site : Chamber A
Condition : 3m Horizontal
Project Number : 2501U16912E-EM
Test Mode : Mode 3
Detector: Peak RBW/VBW: 100/300kHz
Tester : Anson Su

	Freq	Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	165.49	-12.91	38.47	25.56	43.50	-17.94	Peak
2	213.48	-14.15	41.48	27.33	43.50	-16.17	Peak
3	249.97	-13.09	47.38	34.29	46.00	-11.71	Peak
4	282.37	-11.24	48.52	37.28	46.00	-8.72	Peak
5	376.93	-9.24	47.47	38.23	46.00	-7.77	Peak
6	625.08	-4.65	42.45	37.80	46.00	-8.20	Peak

Vertical

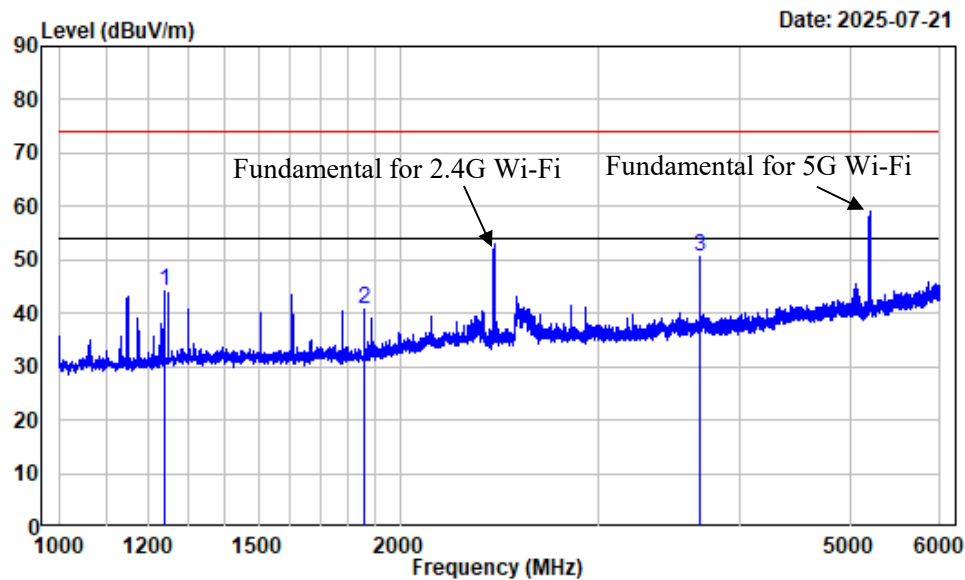


Site : Chamber A
Condition : 3m Vertical
Project Number : 2501U16912E-EM
Test Mode : Mode 3
Detector: Peak RBW/VBW: 100/300kHz
Tester : Anson Su

	Freq	Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	43.75	-15.02	48.10	33.08	40.00	-6.92	Peak
2	50.72	-18.05	51.86	33.81	40.00	-6.19	Peak
3	56.97	-18.31	52.25	33.94	40.00	-6.06	Peak
4	67.06	-17.88	50.40	32.52	40.00	-7.48	Peak
5	101.69	-15.47	51.00	35.53	43.50	-7.97	QP
6	155.64	-12.64	49.59	36.95	43.50	-6.55	Peak

1 ~ 6 GHz

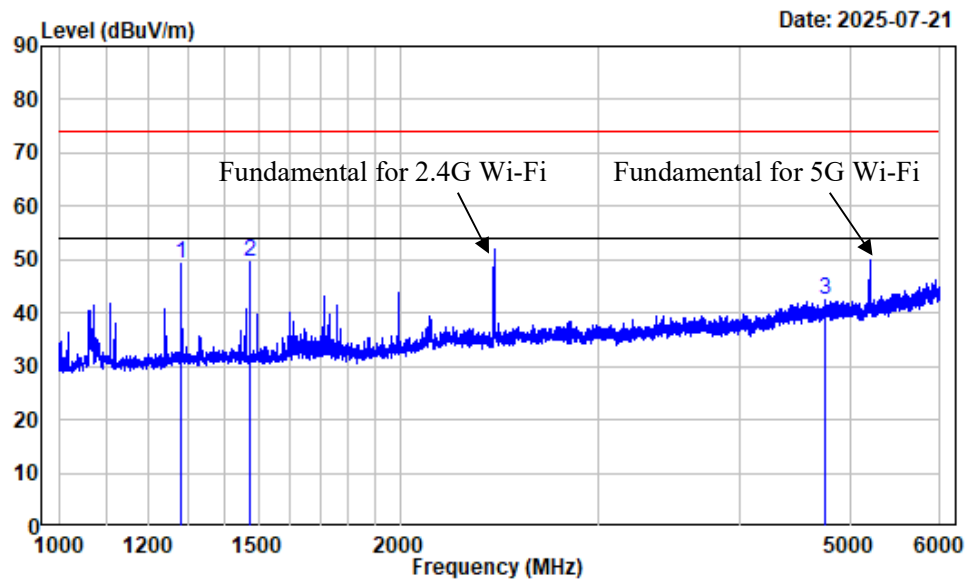
Horizontal



Site : chamber B
Condition : Horizontal
Project Number : 2501U16912E-EM
Test mode : Mode3
Tester : Ive Wang
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1238.155	-14.71	58.77	44.06	74.00	-29.94 Peak
2	1861.983	-13.69	54.42	40.73	74.00	-33.27 Peak
3	3682.210	-9.59	60.31	50.72	74.00	-23.28 Peak

Vertical

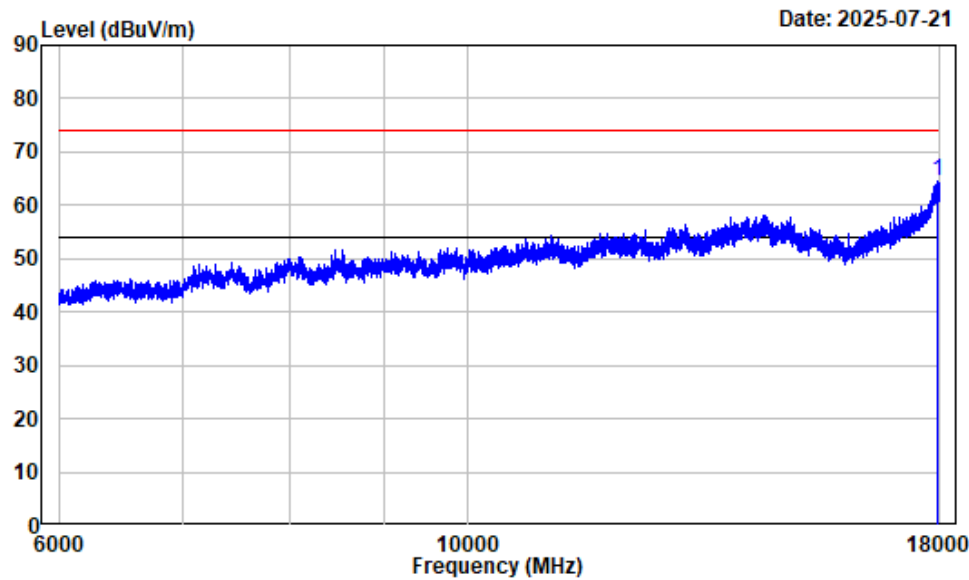


Site : chamber B
Condition : Vertical
Project Number : 2501U16912E-EM
Test mode : Mode3
Tester : Ive Wang
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1283.160	-14.49	63.69	49.20	74.00	-24.80 Peak
2	1476.310	-14.22	63.87	49.65	74.00	-24.35 Peak
3	4749.219	-7.61	49.90	42.29	74.00	-31.71 Peak

6 ~ 18 GHz

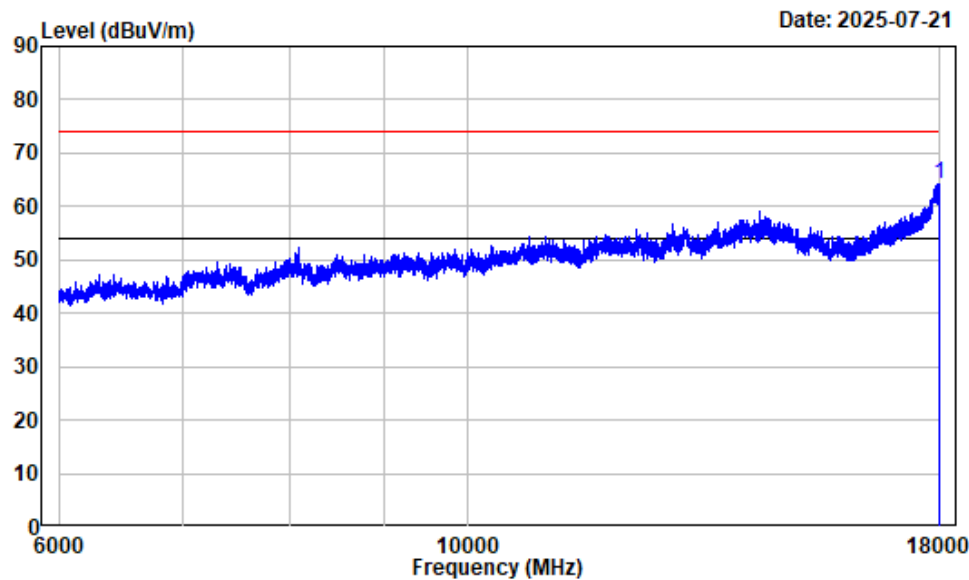
Horizontal-Peak



Site : chamber B
Condition : Horizontal
Project Number : 2501U16912E-EM
Test mode : Mode3
Tester : Ive Wang
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	17947.490	12.94	51.43	64.37	74.00	-9.63 Peak

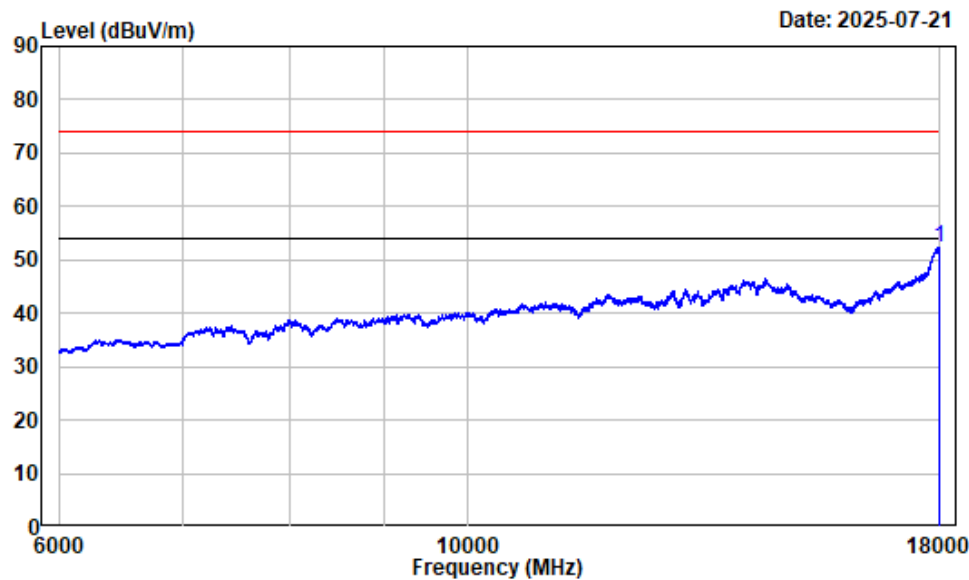
Vertical-Peak



Site : chamber B
Condition : Vertical
Project Number : 2501U16912E-EM
Test mode : Mode3
Tester : Ive Wang
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 17997.000	13.19	50.96	64.15	74.00	-9.85	Peak

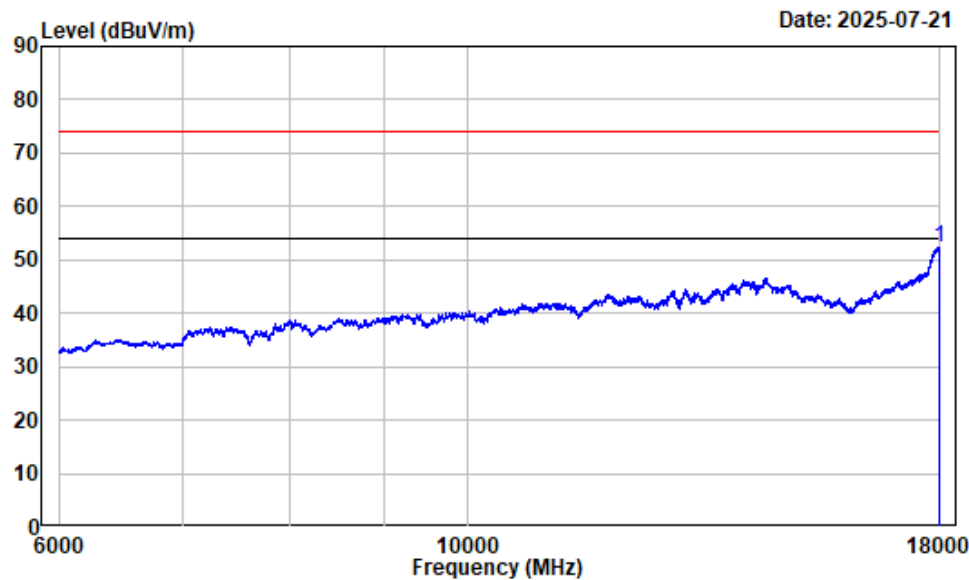
Horizontal-Average



Site : chamber B
Condition : Horizontal
Project Number : 2501U16912E-EM
Test mode : Mode3
Tester : Ive Wang
Spectrum setting: Average reading: RBW:1MHz VBW:10Hz Detector:Peak

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	17989.500	13.16	39.17	52.33	54.00	-1.67 Average

Vertical-Average

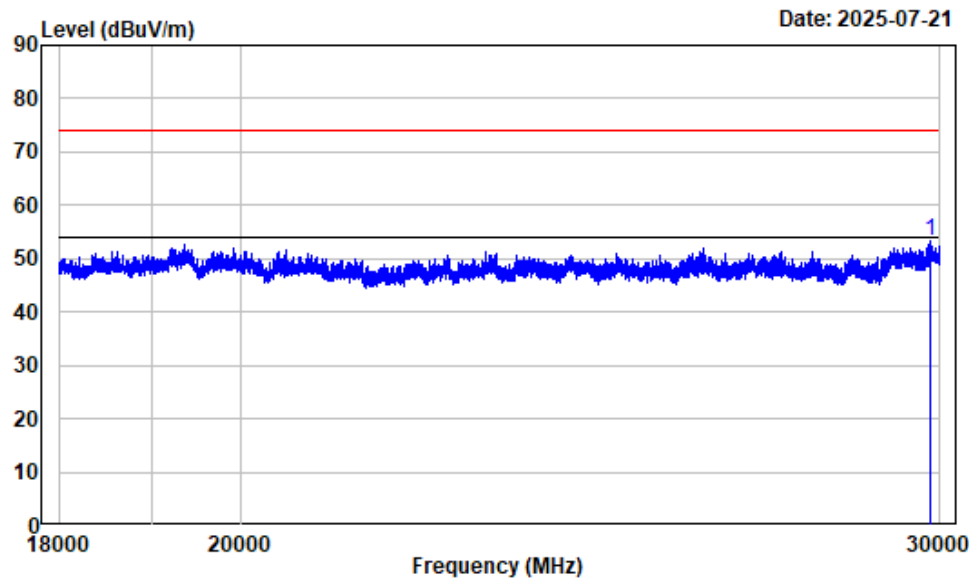


Site : chamber B
Condition : Vertical
Project Number : 2501U16912E-EM
Test mode : Mode3
Tester : Ive Wang
Spectrum setting: Average reading: RBW:1MHz VBW:10Hz Detector:Peak

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	17988.000	13.14	39.26	52.40	54.00	-1.60 Average

18 ~ 30 GHz

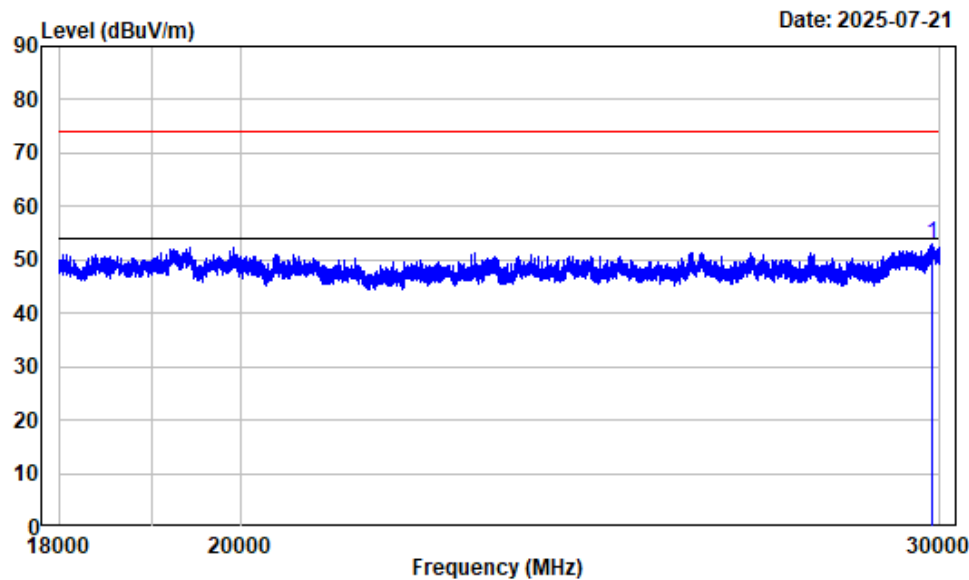
Horizontal



Site : chamber B
Condition : Horizontal
Project Number : 2501U16912E-EM
Test mode : Mode3
Tester : Ive Wang
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 29833.480	18.75	34.42	53.17	74.00	-20.83	peak

Vertical



Site : chamber B
Condition : Vertical
Project Number : 2501U16912E-EM
Test mode : Mode3
Tester : Ive Wang
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	29870.980	18.77	34.07	52.84	74.00	-21.16 peak

EUT PHOTOGRAPHS

Please refer to the attachment 2501U16912E-RF External photo and 2501U16912E-RF Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2501U16912E-EM Test Setup photo.

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