

TEST REPORT

Applicant Name: Grandstream Networks, Inc.
Address: 126 Brookline Ave., 3rd Floor Boston, MA 02215, USA
Report Number: 2501R05701E-EM-00
FCC ID: YZZGWN7721

Test Standard (s)

FCC Part 15, Subpart B (Class B)

Sample Description

Product Type: 10-Port L2-Lite Managed 2.5G Multi-Gigabit Switch
Model No.: GWN7721
Multiple Model(s) No.: N/A
Trade Mark: GRANDSTREAM
Date Received: 2025/03/19
Issue Date: 2025/04/29

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

Prepared and Checked By:

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Carl Lu
EMC Engineer

Approved By:

Moon Liu

Moon Liu
EMC Supervisor

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TABLE OF CONTENTS

DOCUMENT REVISION HISTORY	3
GENERAL INFORMATION.....	4
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	4
OBJECTIVE	4
TEST METHODOLOGY	4
MEASUREMENT UNCERTAINTY.....	5
TEST FACILITY	5
SYSTEM TEST CONFIGURATION.....	6
DESCRIPTION OF TEST CONFIGURATION	6
EUT EXERCISE SOFTWARE	6
EQUIPMENT MODIFICATIONS	6
SUPPORT EQUIPMENT LIST AND DETAILS	6
EXTERNAL I/O CABLE.....	6
BLOCK DIAGRAM OF TEST SETUP	7
SUMMARY OF TEST RESULTS.....	8
TEST EQUIPMENT LIST	9
FCC §15.107 - AC LINE CONDUCTED EMISSIONS.....	10
APPLICABLE STANDARD	10
EUT SETUP	10
EMI TEST RECEIVER SETUP.....	10
TEST PROCEDURE	11
LEVEL & OVER LIMIT CALCULATION	11
TEST DATA	11
FCC §15.109 - RADIATED EMISSIONS	18
APPLICABLE STANDARD	18
EUT SETUP	18
EMI TEST RECEIVER AND SPECTRUM ANALYZER SETUP	19
TEST PROCEDURE	19
LEVEL & OVER LIMIT CALCULATION	20
TEST DATA	20
EUT PHOTOGRAPHS.....	33
TEST SETUP PHOTOGRAPHS	34

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	2501R05701E-EM-00	Original Report	2025/04/29

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	10-Port L2-Lite Managed 2.5G Multi-Gigabit Switch
Tested Model	GWN7721
Multiple Model(s)	N/A
Voltage Range	DC 12V from adapter
Highest operating frequency [#]	400MHz (Provided by the applicant)
Equipment Class	Class B
Sample number	GWN7721:2ZZI-1 Adapter (TS-A012-120100A1): 2ZZI-8 Adapter (DCT12W120100US-A2): 2ZZI-9 Adapter (GLH1201000): 2ZZI-10 (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	Adapter1 Model: GLH1201000 Input: 100-240V, 50/60Hz 0.5A Output: 12.0V, 1.0A 12.0W Adapter2 Model: TS-A012-120100A1 Input: 100-240V, 50/60Hz 0.4A Output: 12.0V, 1.0A 12.0W Adapter3 Model: DCT12W120100US-A2 Input: 100-240V, 50/60Hz 0.3A max Output: 12.0V, 1.0A

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 + Adapter (TS-A012-120100A1)

Test Mode 2: Data transmitting + Adapter (DCT12W120100US-A2)

Test Mode 3: Data transmitting+ Adapter (GLH1201000)

EUT exercise software

No exercise software was used.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

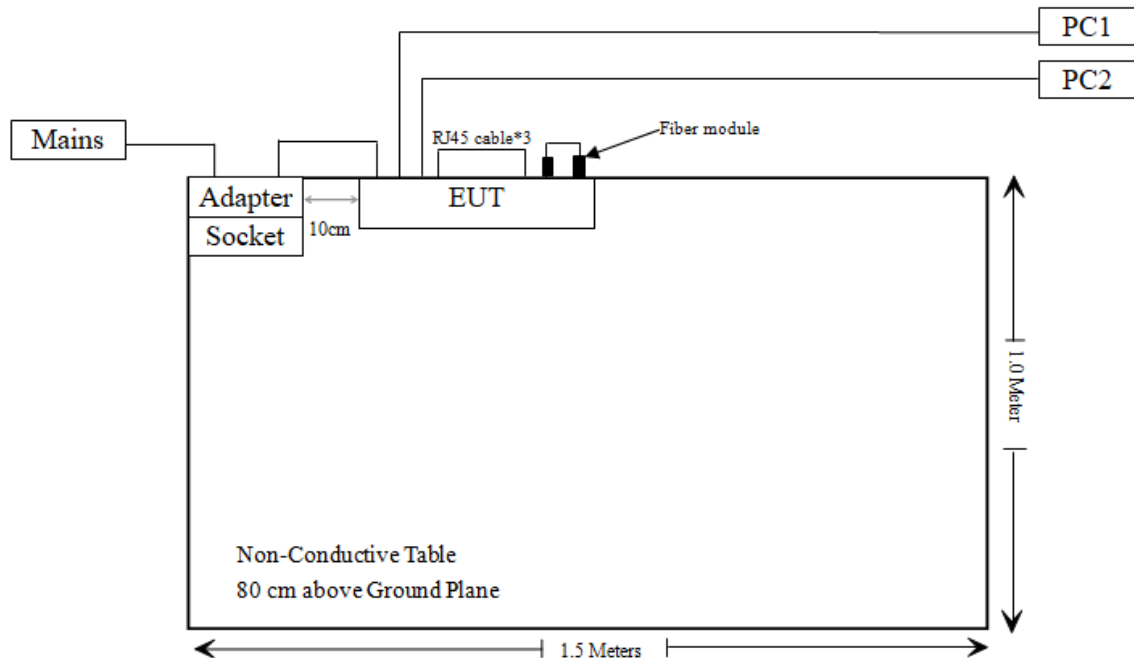
Manufacturer	Description	Model	Serial Number
BULL	Socket	GN-415K	5503290068073
DELL	PC1	Latitude E6520	DL0ZCS1
DELL	PC2	Latitude E5430	JG3NLV1
TP-link	Fiber module	N/A	N/A

External I/O Cable

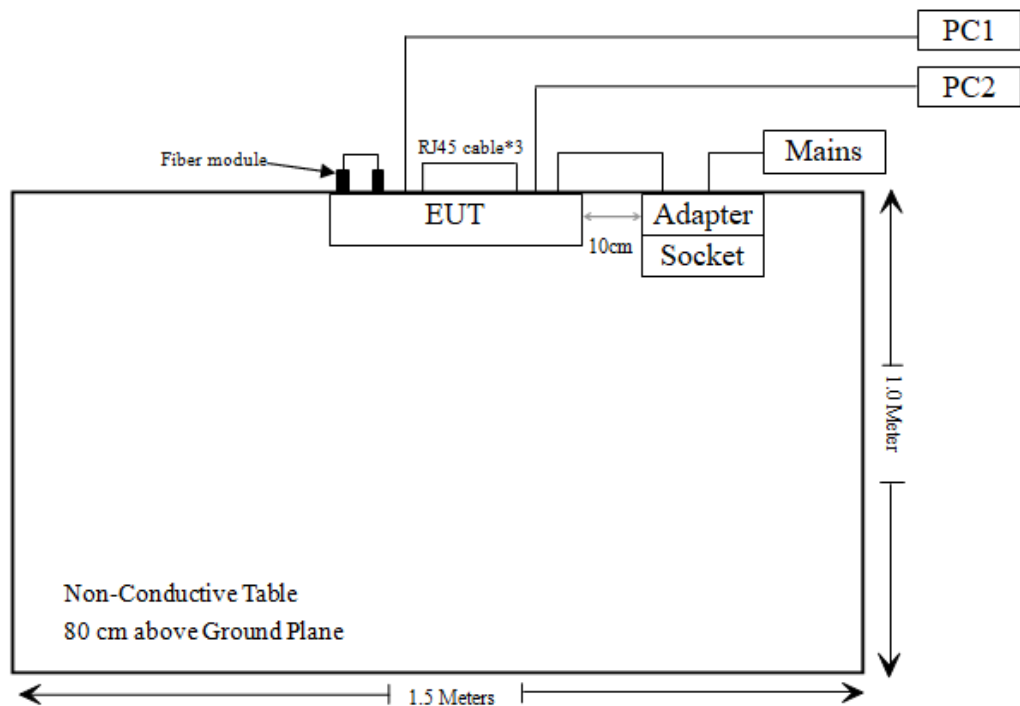
Cable Description	Length (m)	From/Port	To
Unshielded detachable AC cable	1.5	Socket	Mains/LISN
Unshielded detachable DC cable	2.5	EUT	Adapter
Unshielded detachable RJ45 cable	10.0	EUT	PC1
Unshielded detachable RJ45 cable	10.0	EUT	PC2
Unshielded detachable Fiber cable	10.0	Fiber module	Fiber module

Block Diagram of Test Setup

For Conducted Emission:



For Radiated Emission:



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	2024/05/21	2025/05/20
Unknown	CE Cable	Unknown	UF A210B-1-0720-504504	2024/05/21	2025/05/20
Audix	EMI Test software	E3	191218(V9)	NCR	NCR
Radiated Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESR3	102455	2024/12/04	2025/12/03
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
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
Audix	EMI Test software	E3	191218(V9)	NCR	NCR

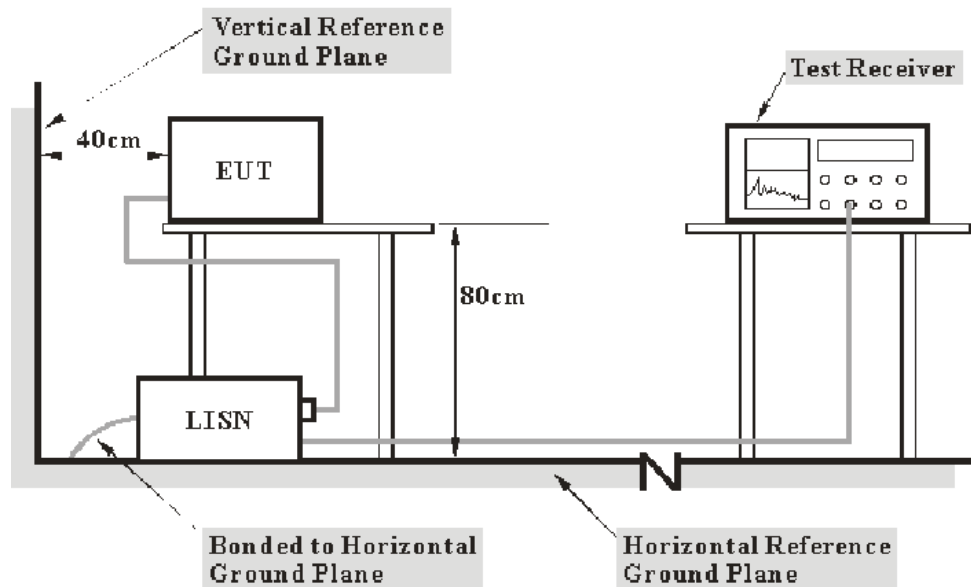
* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

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

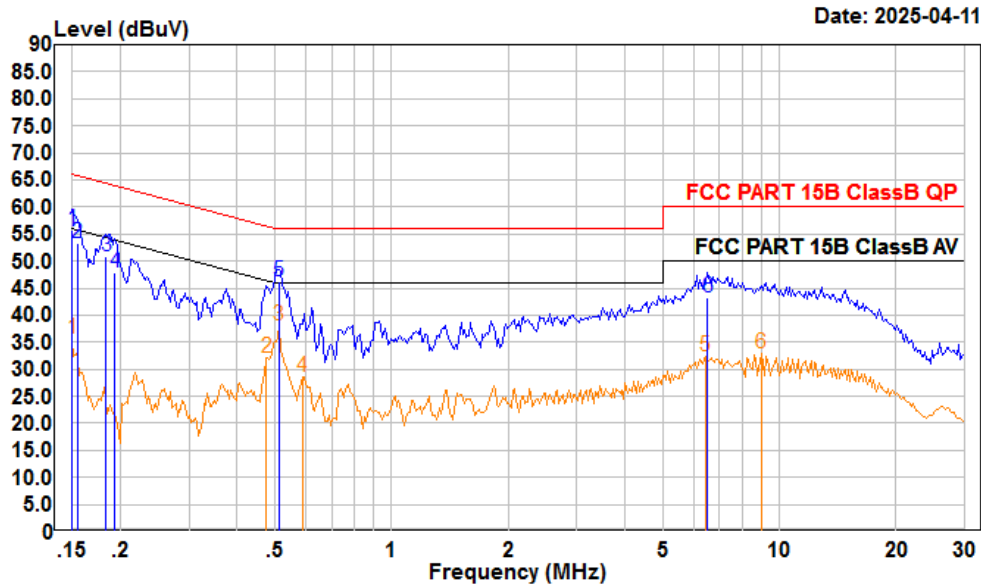
Environmental Conditions

Temperature:	24.5 °C
Relative Humidity:	63 %
ATM Pressure:	100.2 kPa

The testing was performed by Macy Shi on 2025-04-11.

Test Mode 1

AC 120V/60 Hz, Line



Trace: 1

Condition: Line

Project : 2501R05701E-EM

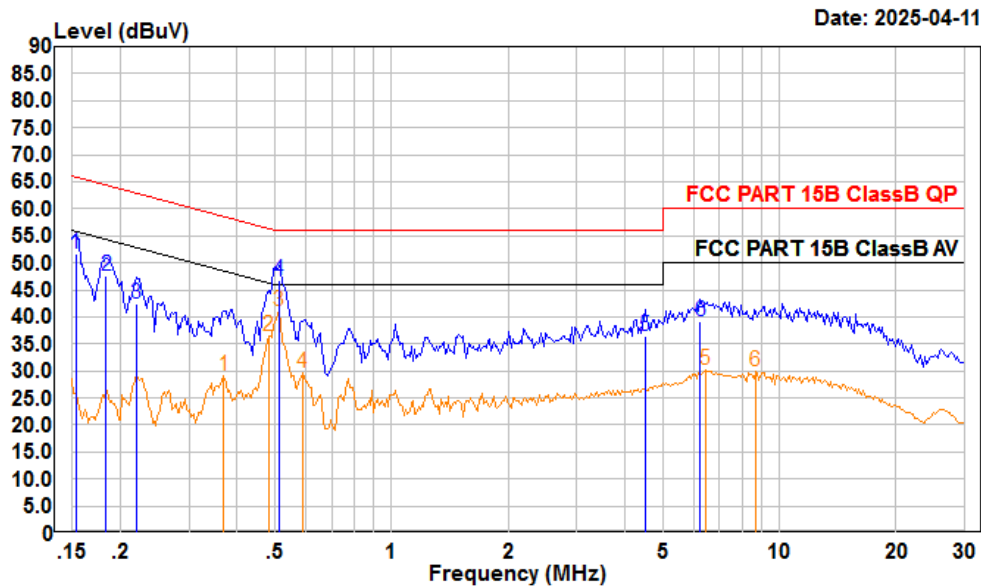
test Mode: Mode1

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	0.150	35.10	55.63	10.40	10.13	66.00	-10.37	QP
2	0.155	32.71	53.26	10.43	10.12	65.74	-12.48	QP
3	0.183	30.20	50.91	10.61	10.10	64.33	-13.42	QP
4	0.193	27.10	47.86	10.67	10.09	63.89	-16.03	QP
5	0.513	25.60	46.27	10.53	10.14	56.00	-9.73	QP
6	6.523	22.50	43.33	10.64	10.19	60.00	-16.67	QP

	Freq	Read Level	LISN Level	Cable Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.150	15.07	35.60	10.40	10.13	56.00	-20.40	Average
2	0.476	11.42	32.06	10.51	10.13	46.41	-14.35	Average
3	0.513	17.33	38.00	10.53	10.14	46.00	-8.00	Average
4	0.589	7.88	28.69	10.69	10.12	46.00	-17.31	Average
5	6.454	11.45	32.28	10.64	10.19	50.00	-17.72	Average
6	8.964	12.24	32.83	10.39	10.20	50.00	-17.17	Average

AC 120V/60 Hz, Neutral



Trace: 1

Condition: Neutral

Project : 2501R05701E-EM

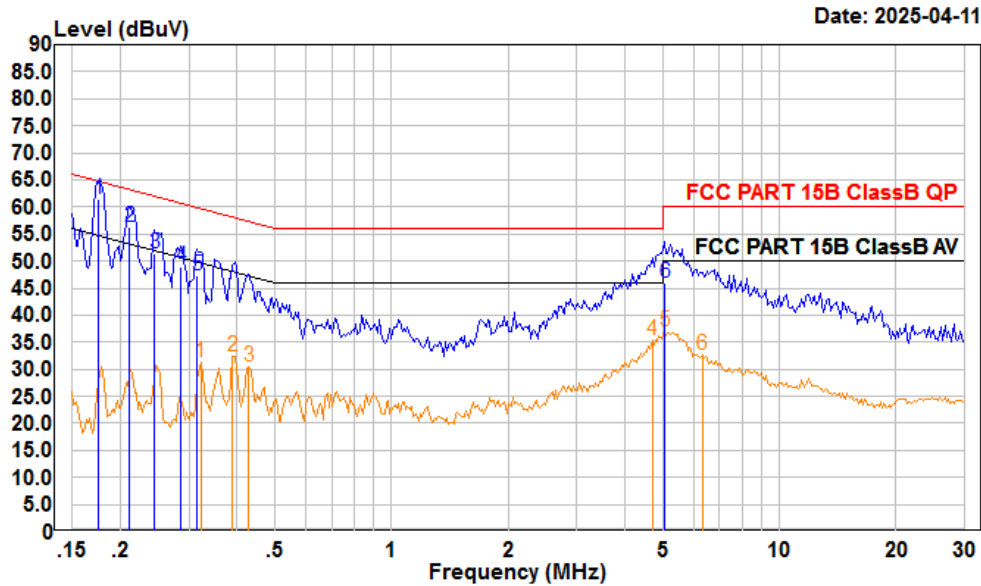
test Mode: Mode1

tester : Macy.shi Setting:RBW:9kHz

		Read		LISN	Cable	Limit	Over	
	Freq	Level	Level	Factor	Loss	Line	Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.153	31.19	51.75	10.43	10.13	65.82	-14.07	QP
2	0.183	26.90	47.68	10.68	10.10	64.33	-16.65	QP
3	0.220	21.70	42.56	10.77	10.09	62.83	-20.27	QP
4	0.513	26.09	46.74	10.51	10.14	56.00	-9.26	QP
5	4.501	15.40	36.51	10.92	10.19	56.00	-19.49	QP
6	6.252	18.30	39.17	10.68	10.19	60.00	-20.83	QP
	Freq	Read	LISN	Cable	Limit	Over		
	MHz	Level	Level	Factor	Loss	Line	Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.369	8.37	29.08	10.60	10.11	48.52	-19.44	Average
2	0.481	15.84	36.48	10.51	10.13	46.32	-9.84	Average
3	0.513	20.51	41.16	10.51	10.14	46.00	-4.84	Average
4	0.589	9.10	29.77	10.55	10.12	46.00	-16.23	Average
5	6.454	9.25	30.10	10.66	10.19	50.00	-19.90	Average
6	8.683	9.06	29.80	10.54	10.20	50.00	-20.20	Average

Test Mode 2

AC 120V/60 Hz, Line



Condition: Line

Project : 2501R05701E-EM

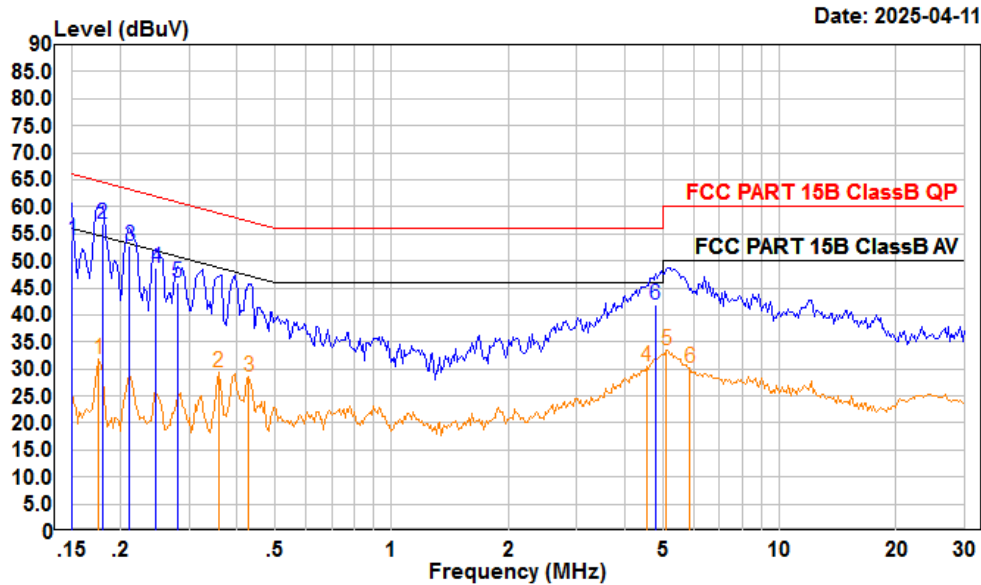
test Mode: Mode2

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	0.176	40.69	61.36	10.57	10.10	64.68	-3.32	QP
2	0.211	35.50	56.28	10.69	10.09	63.18	-6.90	QP
3	0.244	30.60	51.34	10.66	10.08	61.95	-10.61	QP
4	0.286	28.20	48.92	10.62	10.10	60.63	-11.71	QP
5	0.315	26.60	47.31	10.60	10.11	59.84	-12.53	QP
6	5.058	25.10	46.05	10.77	10.18	60.00	-13.95	QP

	Freq	Read Level	LISN Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.322	10.45	31.16	10.60	10.11	49.66	-18.50	Average
2	0.389	11.70	32.35	10.55	10.10	48.08	-15.73	Average
3	0.428	9.71	30.35	10.53	10.11	47.29	-16.94	Average
4	4.696	14.47	35.47	10.81	10.19	46.00	-10.53	Average
5	5.058	16.03	36.98	10.77	10.18	50.00	-13.02	Average
6	6.319	11.78	32.62	10.65	10.19	50.00	-17.38	Average

AC 120V/60 Hz, Neutral



Trace: 1

Condition: Neutral

Project : 2501R05701E-EM

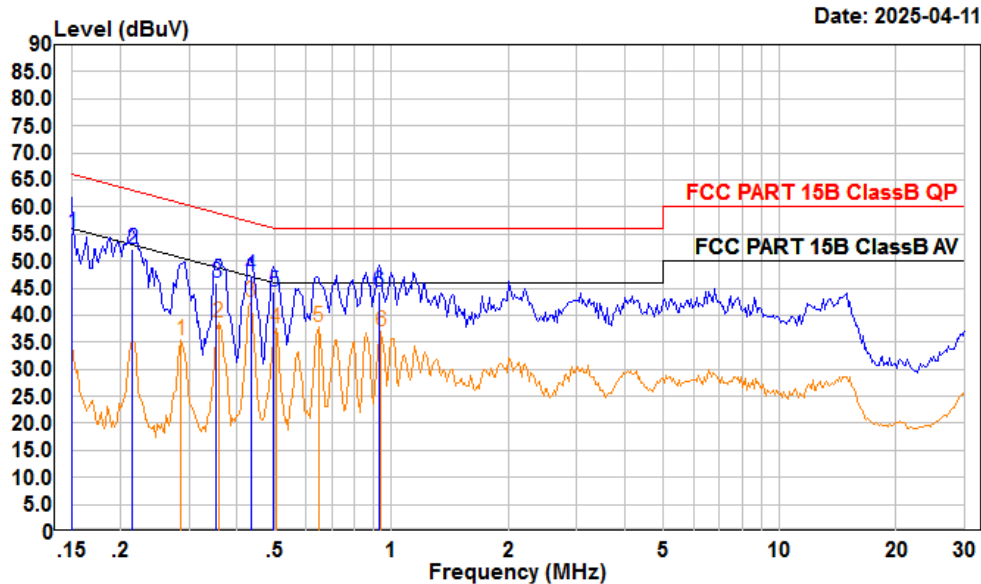
test Mode: Mode2

tester : Macy.shi Setting:RBW:9kHz

	Read	LISN	Cable	Limit	Over	
Freq	Level	Level	Factor	Loss	Line	Limit Remark
MHz	dBuV	dBuV	dB	dB	dBuV	dB
1	0.150	33.40	53.93	10.40	10.13	66.00 -12.07 QP
2	0.180	36.10	56.85	10.65	10.10	64.50 -7.65 QP
3	0.211	32.00	52.87	10.78	10.09	63.18 -10.31 QP
4	0.247	27.80	48.61	10.73	10.08	61.86 -13.25 QP
5	0.280	25.10	45.89	10.69	10.10	60.81 -14.92 QP
6	4.797	20.80	41.86	10.87	10.19	56.00 -14.14 QP
	Read	LISN	Cable	Limit	Over	
Freq	Level	Level	Factor	Loss	Line	Limit Remark
MHz	dBuV	dBuV	dB	dB	dBuV	dB
1	0.176	11.06	31.78	10.62	10.10	54.68 -22.90 Average
2	0.358	8.59	29.32	10.61	10.12	48.78 -19.46 Average
3	0.428	7.81	28.47	10.55	10.11	47.29 -18.82 Average
4	4.549	9.23	30.33	10.91	10.19	46.00 -15.67 Average
5	5.112	12.51	33.51	10.82	10.18	50.00 -16.49 Average
6	5.867	9.23	30.14	10.73	10.18	50.00 -19.86 Average

Test Mode 3

AC 120V/60 Hz, Line



Trace: 1

Condition: Line

Project : 2501R05701E-EM

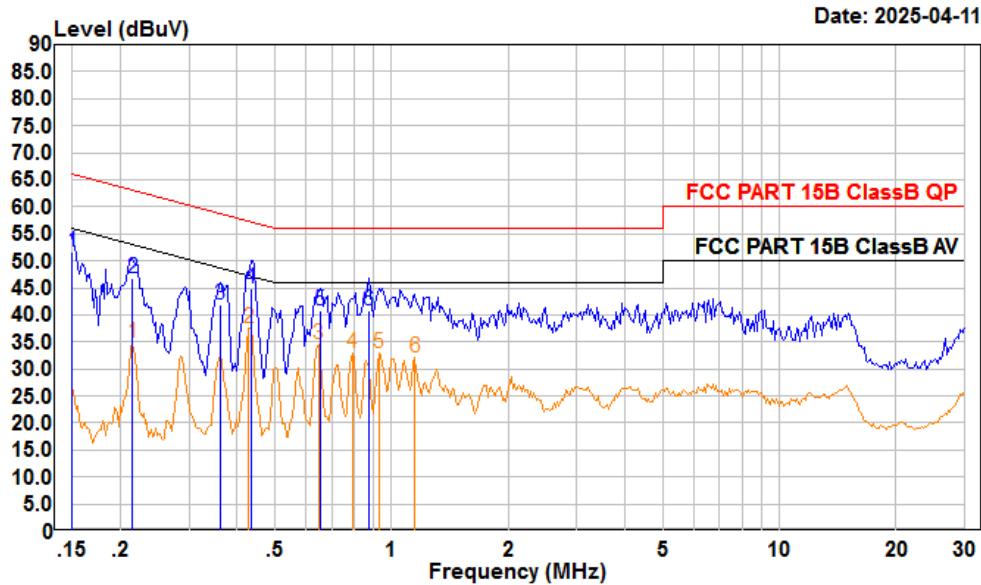
test Mode: Mode3

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	0.150	34.70	55.23	10.40	10.13	66.00	-10.77	QP
2	0.215	31.40	52.17	10.68	10.09	63.01	-10.84	QP
3	0.354	25.29	45.99	10.58	10.12	58.87	-12.88	QP
4	0.433	26.60	47.24	10.53	10.11	57.20	-9.96	QP
5	0.497	23.80	44.44	10.50	10.14	56.05	-11.61	QP
6	0.928	23.61	44.37	10.66	10.10	56.00	-11.63	QP

	Freq	Read Level	LISN Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.286	14.73	35.45	10.62	10.10	50.63	-15.18	Average
2	0.358	18.00	38.69	10.57	10.12	48.78	-10.09	Average
3	0.433	21.89	42.53	10.53	10.11	47.20	-4.67	Average
4	0.502	16.90	37.54	10.50	10.14	46.00	-8.46	Average
5	0.647	16.73	37.67	10.81	10.13	46.00	-8.33	Average
6	0.938	16.11	36.86	10.65	10.10	46.00	-9.14	Average

AC 120V/60 Hz, Neutral



Trace: 1

Condition: Neutral

Project : 2501R05701E-EM

test Mode: Mode3

tester : Macy.shi Setting:RBW:9kHz

	Read	LISN	Cable	Limit	Over	
Freq	Level	Level	Factor	Loss	Line	Limit Remark
MHz	dBuV	dBuV	dB	dB	dBuV	dB
1	0.150	31.20	51.73	10.40	10.13	66.00 -14.27 QP
2	0.215	25.89	46.76	10.78	10.09	63.01 -16.25 QP
3	0.361	21.09	41.82	10.61	10.12	58.69 -16.87 QP
4	0.433	24.30	44.96	10.55	10.11	57.20 -12.24 QP
5	0.654	20.10	40.82	10.58	10.14	56.00 -15.18 QP
6	0.871	20.10	40.93	10.72	10.11	56.00 -15.07 QP
	Read	LISN	Cable	Limit	Over	
Freq	Level	Level	Factor	Loss	Line	Limit Remark
MHz	dBuV	dBuV	dB	dB	dBuV	dB
1	0.215	13.85	34.72	10.78	10.09	53.01 -18.29 Average
2	0.428	16.92	37.58	10.55	10.11	47.29 -9.71 Average
3	0.647	13.76	34.47	10.58	10.13	46.00 -11.53 Average
4	0.792	12.18	32.97	10.67	10.12	46.00 -13.03 Average
5	0.928	11.96	32.82	10.76	10.10	46.00 -13.18 Average
6	1.147	11.23	32.14	10.78	10.13	46.00 -13.86 Average

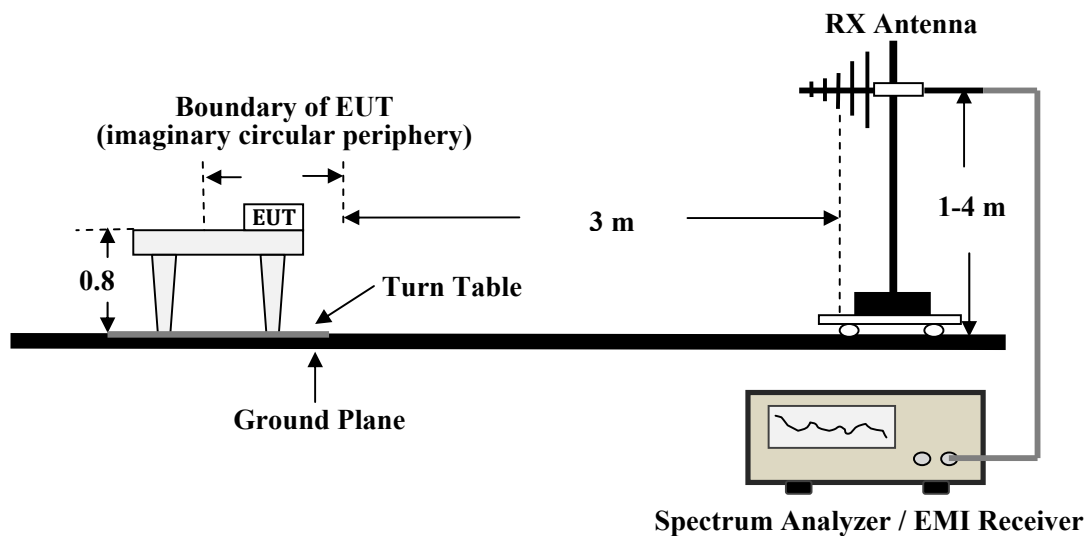
FCC §15.109 - RADIATED EMISSIONS

Applicable Standard

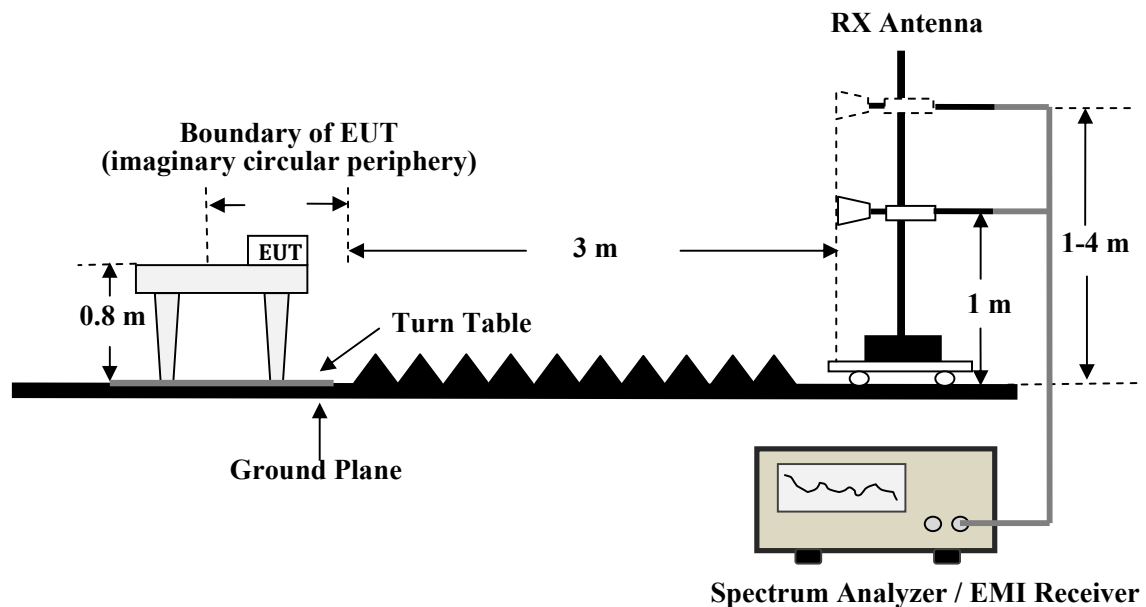
FCC §15.109

EUT Setup

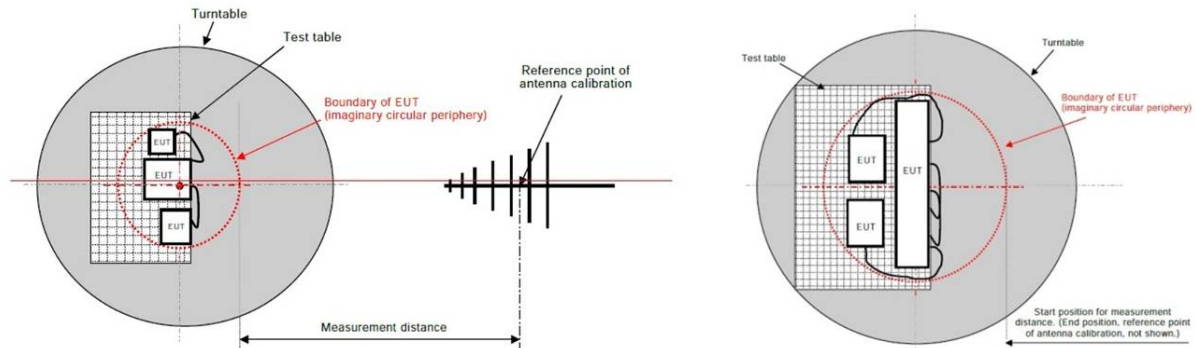
Below 1GHz for Radiated Emissions



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

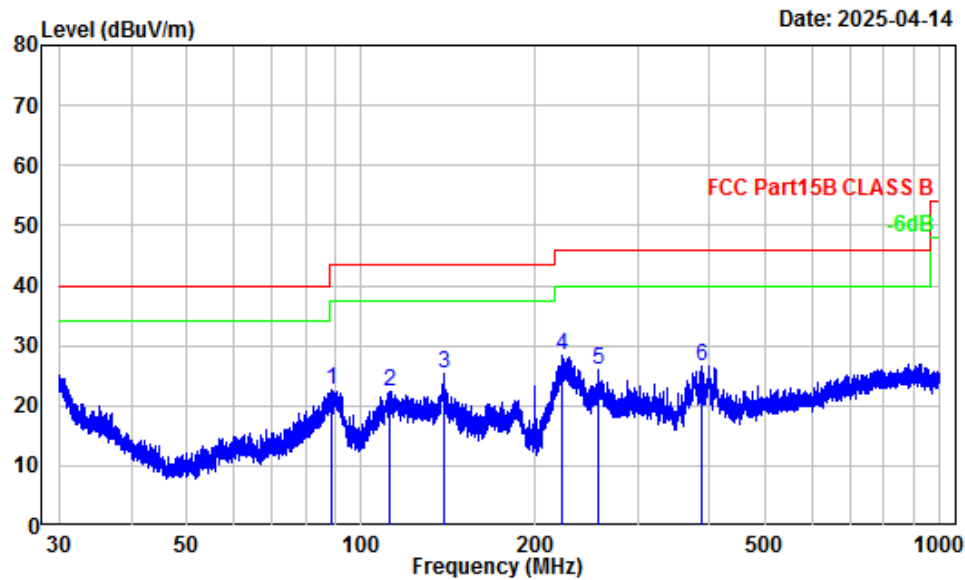
Temperature:	19.8~24.7 °C
Relative Humidity:	42~57 %
ATM Pressure:	101.1~101.2 kPa

The testing was performed by Anson Su on 2025-04-14 for below 1GHz and Wing K Ji on 2025-04-17 for above 1GHz.

Test Mode 1

30 MHz~1 GHz

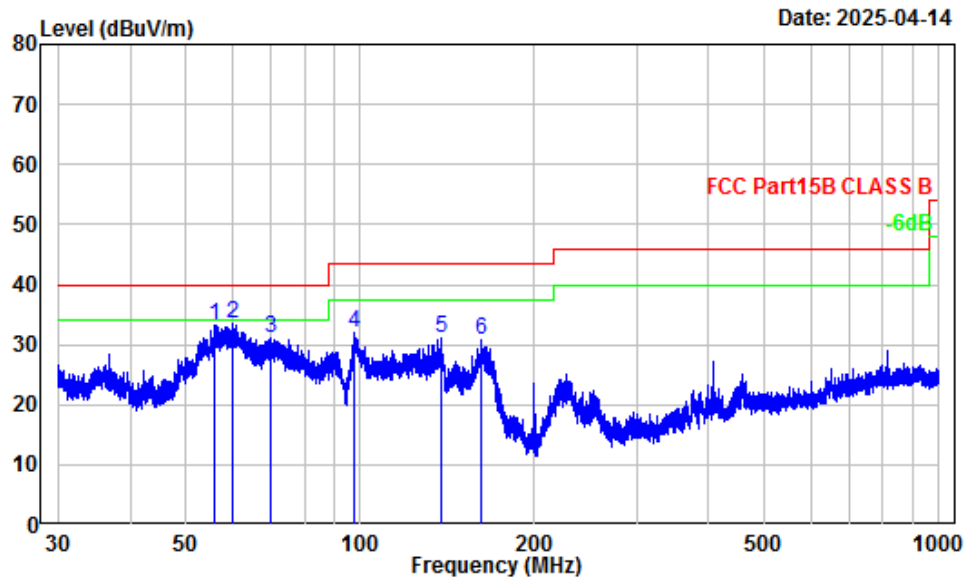
Horizontal



Site : Chamber A
Condition : 3m Horizontal
Project Number : 2501R05701E-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	89.08 -18.06	40.62	22.56	43.50	-20.94	Peak
2	111.79 -12.78	35.14	22.36	43.50	-21.14	Peak
3	139.06 -11.80	37.07	25.27	43.50	-18.23	Peak
4	221.88 -14.15	42.49	28.34	46.00	-17.66	Peak
5	256.52 -12.99	38.93	25.94	46.00	-20.06	Peak
6	386.97 -8.97	35.58	26.61	46.00	-19.39	Peak

Vertical

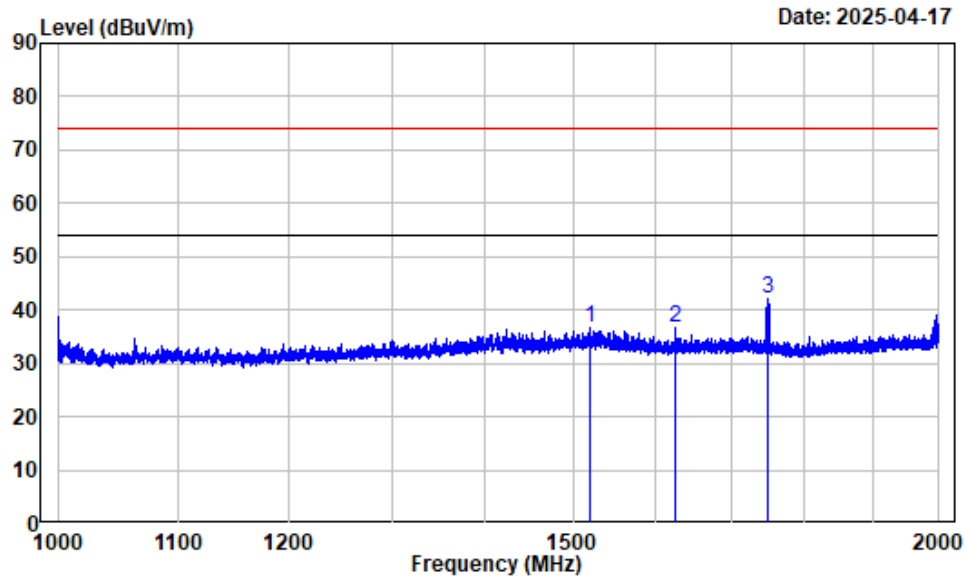


Site : Chamber A
Condition : 3m Vertical
Project Number : 2501R05701E-EM
Test Mode : Mode 1
Detector: Peak RBW/VBW: 100/300kHz
Tester : Anson Su

	Freq Factor		Read	Limit	Over	Remark
	MHz	dB/m	Level	Level	Line	
			dBuV	dBuV/m	dBuV/m	dB
1	56.12	-18.32	51.52	33.20	40.00	-6.80 Peak
2	60.20	-18.12	51.77	33.65	40.00	-6.35 Peak
3	69.94	-17.87	48.82	30.95	40.00	-9.05 Peak
4	97.84	-16.55	48.44	31.89	43.50	-11.61 Peak
5	137.78	-11.68	42.63	30.95	43.50	-12.55 Peak
6	161.76	-12.72	43.54	30.82	43.50	-12.68 Peak

1 ~ 2 GHz

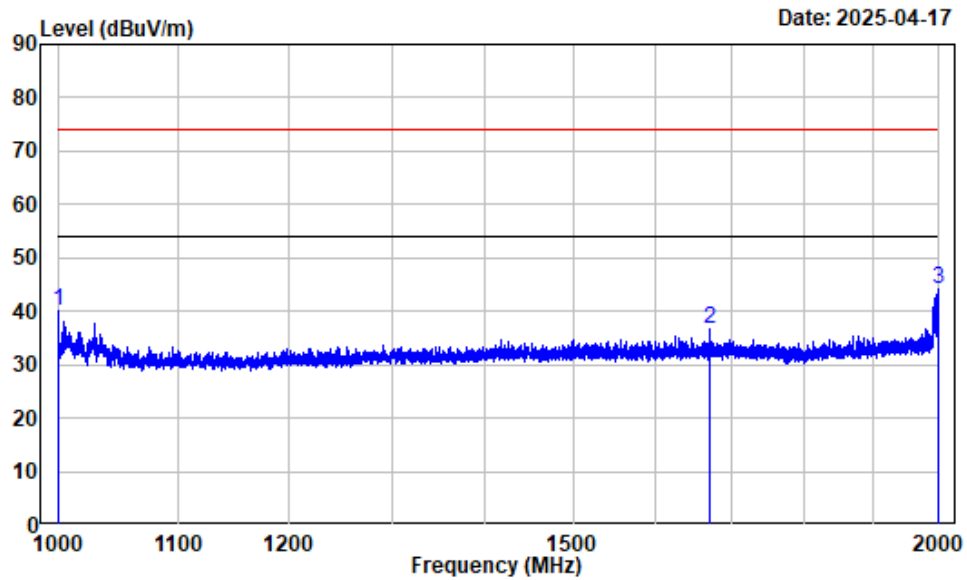
Horizontal



Site : chamber B
 Condition : Horizontal
 Project Number : 2501R05701E-EM
 Test mode : mode1
 Tester : Wing K Ji
 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	1520.315	-14.24	50.99	36.75	74.00	-37.25	Peak
2	1625.453	-14.17	50.95	36.78	74.00	-37.22	Peak
3	1749.094	-14.01	56.27	42.26	74.00	-31.74	Peak

Vertical



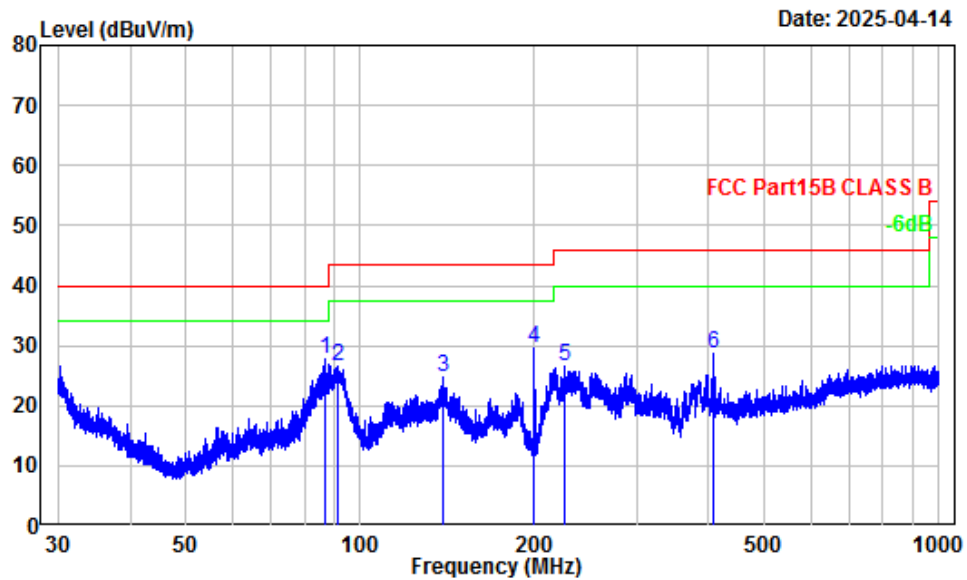
Site : chamber B
Condition : Vertical
Project Number : 2501R05701E-EM
Test mode : mode1
Tester : Wing K Ji
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak

	Freq Factor		Read Level		Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1000.375	-15.53	55.44	39.91	74.00	-34.09	Peak
2	1671.209	-13.97	50.56	36.59	74.00	-37.41	Peak
3	1998.750	-12.63	56.65	44.02	74.00	-29.98	Peak

Test Mode 2

30 MHz~1 GHz

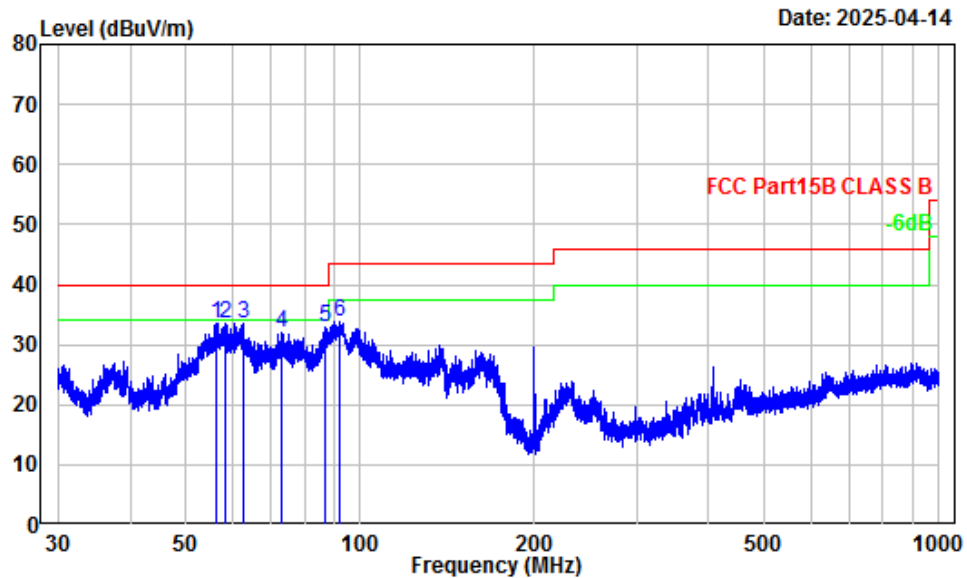
Horizontal



Site : Chamber A
 Condition : 3m Horizontal
 Project Number : 2501R05701E-EM
 Test Mode : Mode 2
 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	86.69	-18.08	45.85	27.77	40.00	-12.23	Peak
2	91.53	-17.90	44.53	26.63	43.50	-16.87	Peak
3	138.69	-11.76	36.51	24.75	43.50	-18.75	Peak
4	199.99	-13.06	42.72	29.66	43.50	-13.84	Peak
5	225.41	-14.05	40.66	26.61	46.00	-19.39	Peak
6	408.95	-8.19	37.02	28.83	46.00	-17.17	Peak

Vertical

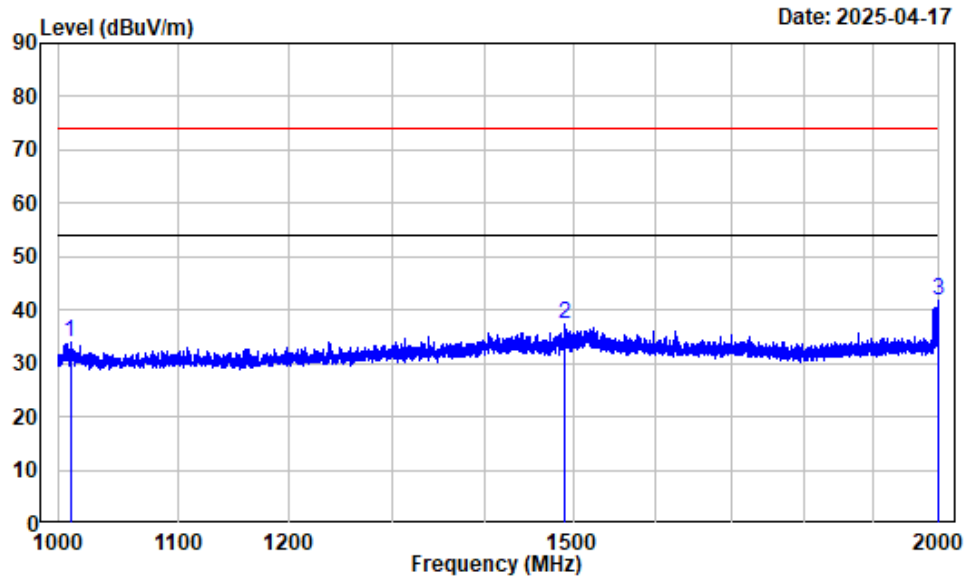


Site : Chamber A
Condition : 3m Vertical
Project Number : 2501R05701E-EM
Test Mode : Mode 2
Detector: Peak RBW/VBW: 100/300kHz
Tester : Anson Su

	Freq	Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	56.52	-18.32	51.90	33.58	40.00	-6.42	Peak
2	58.54	-18.22	51.59	33.37	40.00	-6.63	Peak
3	62.76	-18.11	51.59	33.48	40.00	-6.52	Peak
4	72.91	-17.85	49.70	31.85	40.00	-8.15	Peak
5	86.69	-18.08	50.96	32.88	40.00	-7.12	Peak
6	91.86	-17.87	51.79	33.92	43.50	-9.58	Peak

1 ~ 2 GHz

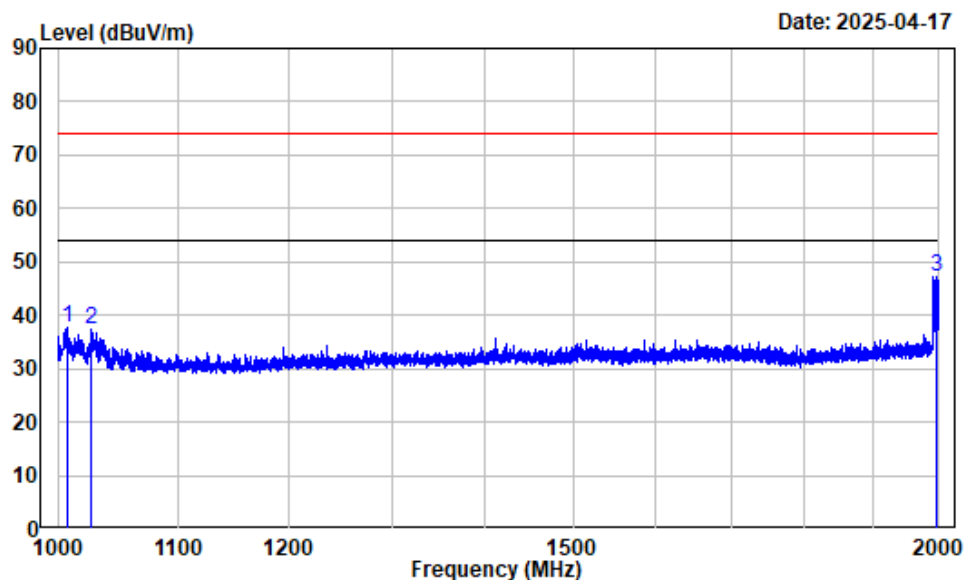
Horizontal



Site : chamber B
 Condition : Horizontal
 Project Number : 2501R05701E-EM
 Test mode : mode2
 Tester : Wing K Ji
 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	1009.751	-15.52	49.36	33.84	74.00	-40.16	Peak
2	1490.061	-14.29	51.70	37.41	74.00	-36.59	Peak
3	1999.125	-12.63	54.41	41.78	74.00	-32.22	Peak

Vertical



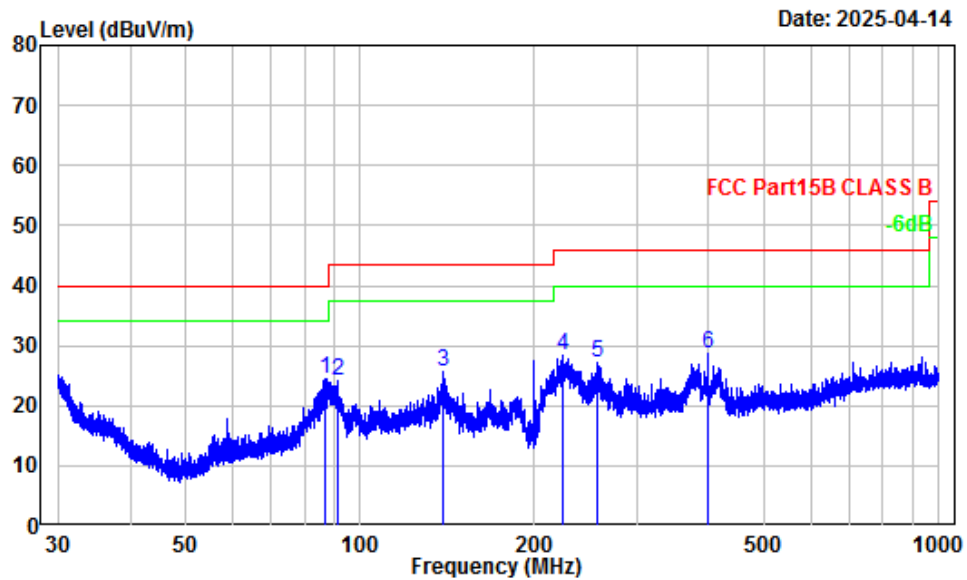
Site : chamber B
Condition : Vertical
Project Number : 2501R05701E-EM
Test mode : mode2
Tester : Wing K Ji
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak

	Freq Factor		Read Level		Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	Line	Limit	
1	1007.251	-15.52	53.11	37.59	74.00	-36.41	Peak
2	1027.128	-15.49	52.96	37.47	74.00	-36.53	Peak
3	1995.625	-12.66	59.98	47.32	74.00	-26.68	Peak

Test Mode 3

30 MHz~1 GHz

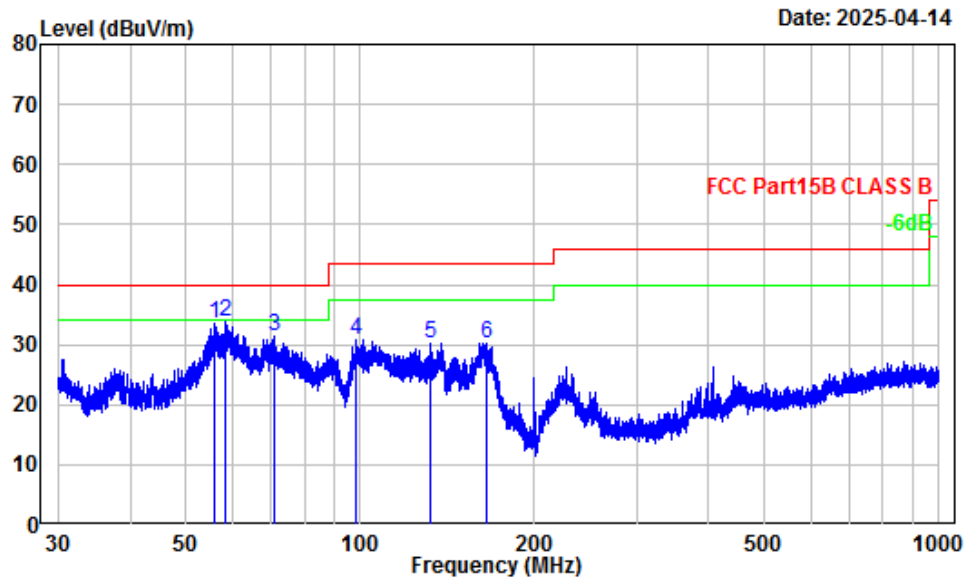
Horizontal



Site : Chamber A
Condition : 3m Horizontal
Project Number : 2501R05701E-EM
Test Mode : Mode 3
Detector: Peak RBW/VBW: 100/300kHz
Tester : Anson Su

	Freq Factor		Read	Limit	Over	Remark
	MHz	dB/m	Level	Level	Line	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1	87.00	-18.08	42.47	24.39	40.00	-15.61 Peak
2	91.33	-17.93	42.07	24.14	43.50	-19.36 Peak
3	139.00	-11.79	37.30	25.51	43.50	-17.99 Peak
4	223.54	-14.11	42.55	28.44	46.00	-17.56 Peak
5	256.86	-12.97	40.01	27.04	46.00	-18.96 Peak
6	400.08	-8.41	36.99	28.58	46.00	-17.42 Peak

Vertical

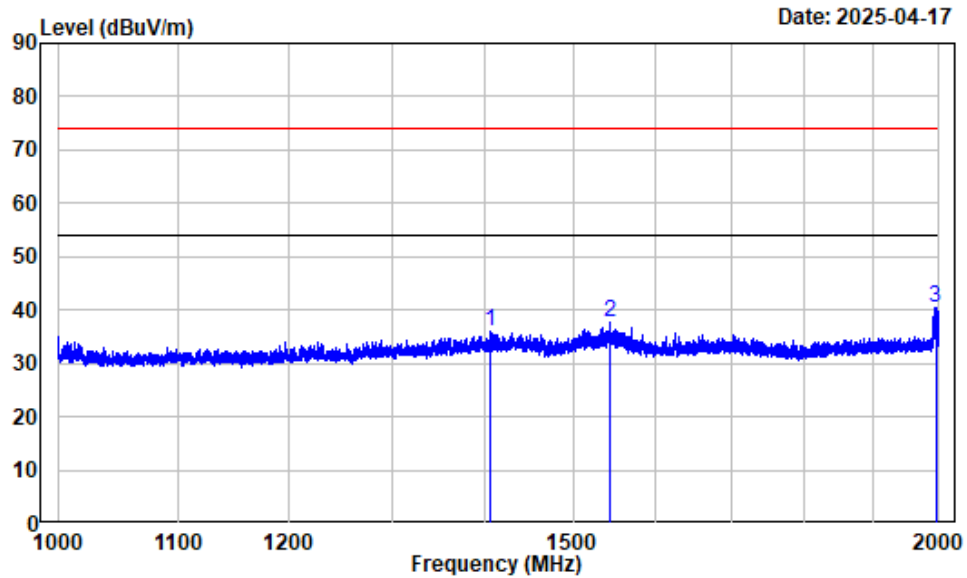


Site : Chamber A
Condition : 3m Vertical
Project Number : 2501R05701E-EM
Test Mode : Mode 3
Detector: Peak RBW/VBW: 100/300kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	56.03	-18.32	51.95	33.63	40.00	-6.37	Peak
2	58.54	-18.22	51.90	33.68	40.00	-6.32	Peak
3	70.83	-17.87	49.26	31.39	40.00	-8.61	Peak
4	98.18	-16.44	47.30	30.86	43.50	-12.64	Peak
5	132.16	-11.32	41.66	30.34	43.50	-13.16	Peak
6	165.70	-12.91	43.23	30.32	43.50	-13.18	Peak

1 ~ 2 GHz

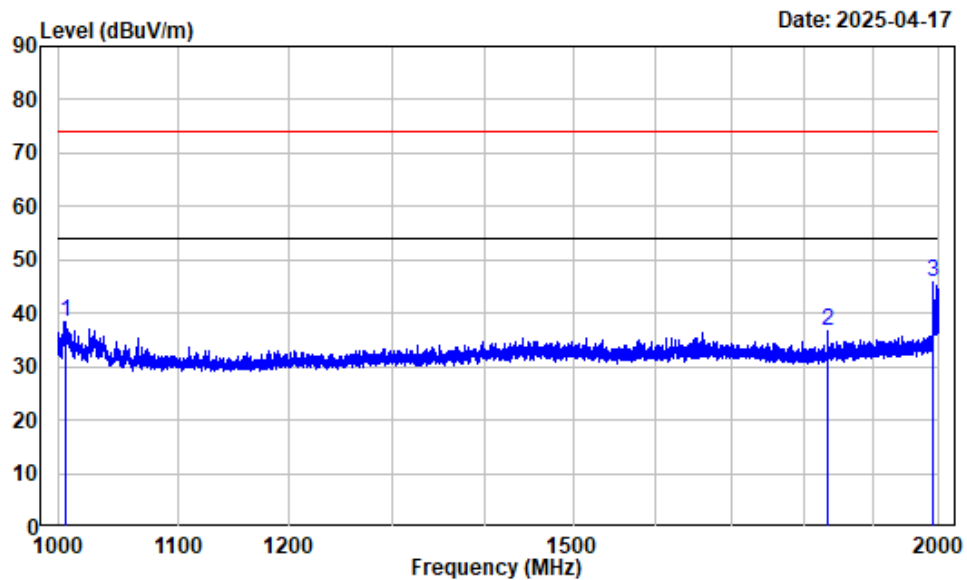
Horizontal



Site : chamber B
Condition : Horizontal
Project Number : 2501R05701E-EM
Test mode : mode3
Tester : Wing K Ji
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	1405.676	-14.02	49.93	35.91	74.00	-38.09	Peak
2	1544.568	-14.12	51.69	37.57	74.00	-36.43	Peak
3	1994.999	-12.66	53.14	40.48	74.00	-33.52	Peak

Vertical



Site : chamber B
Condition : Vertical
Project Number : 2501R05701E-EM
Test mode : mode3
Tester : Wing K Ji
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	1006.126	-15.52	54.03	38.51	74.00	-35.49	Peak
2	1832.979	-13.86	50.53	36.67	74.00	-37.33	Peak
3	1990.749	-12.70	58.71	46.01	74.00	-27.99	Peak

EUT PHOTOGRAPHS

Please refer to the attachment 2501R05701E-EM External photo and 2501R05701E-EM Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2501R05701E-EM Test Setup photo.

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