



FCC SDoC Test Report

Issued date: Aug. 09, 2023

Project No.: 23Q080202

Product : M.2(NGFF) Solid State Drive

Model : SV240-M280

Series Model : SX24X-M280 (X=A~Z, 0~9)

Applicant : Apacer Technology Inc.

Address : 1F., No.32, Zhongcheng Rd., Tucheng Dist., New Taipei City 236,
Taiwan (R.O.C)

Report No: WD-EF-R-200074-A1

According to

47 CFR FCC Part 15, Subpart B, Class B
ICES-003: 2016 Issue 6, Class B

ANSI C63.4: 2014

Authorized Signatory :  / Ken Huang



Wendell Industrial Co., Ltd
Wendell EMC & RF Laboratory

Add: 5F-1, No. 188, Baoqiao Road, Xindian District, New Taipei City 23145, Taiwan R.O.C.



Table of Contents

1	Certification	5
1.1	Summary of Test Result.....	6
2	Test Configuration of Equipment Under Test	7
2.1	Test Facility.....	7
2.2	Measurement Uncertainty	8
2.2.1	Conducted Emission test.....	8
2.2.2	Radiated Emission test.....	8
3	General Information.....	9
3.1	Description of EUT.....	9
3.2	Description of Test Modes.....	10
3.3	EUT Operating Condition	10
3.4	Description of Support Unit	11
3.5	Configuration of System Under Test.....	11
4	Emission Test.....	12
4.1	Conducted Emission Measurement (Frequency Range 150 KHz-30MHz).....	12
4.1.1	Limit of Conducted Emission Measurement	12
4.1.2	Test Instrument	13
4.1.3	Test Procedure.....	14
4.1.4	Deviation from Test Standard	14
4.1.5	Test Setup.....	15
4.1.6	Test Result	16
4.1.7	Photographs of Test Configuration	18
4.2	Radiated Emission Measurement	19
4.2.1	Limits of Radiated Emission Measurement	19
4.2.2	Test Instrument	21
4.2.3	Test Procedure.....	22
4.2.4	Deviation from Test Standard	22
4.2.5	Test Setup.....	23
4.2.6	Test Result	24
4.2.7	Photographs of Test Configuration	28



History of this test report

Report No.	Issue date	Description
WD-EF-R-200074-A0	Mar. 24, 2020	Initial Issue
WD-EF-R-200074-A1	Aug. 09, 2023	Modify model no. *Cancel report no.: WD-EF-R-200074-A0, Issued Date: Mar. 24, 2020

Declaration

This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us.



History of supplementary report

Report No.	Issue date	Description
WD-EF-R-200074-A1	Aug. 09, 2023	Original report

Declaration

This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us.



1 Certification

Product: M.2(NGFF) Solid State Drive
Brand Name: Apacer
Model: SV240-M280
Series Model: SX24X-M280 (X=A~Z, 0~9)
Applicant: Apacer Technology Inc.
Tested: Mar. 16 ~ Mar. 19, 2020
Standard: 47 CFR FCC Part 15, Subpart B, Class B
ICES-003: 2016 Issue 6, Class B
ANSI C63.4: 2014

The above equipment (Model: SV240-M280) has been tested by **Wendell EMC & RF Laboratory**, and found compliance with the requirement of the above standards. The test record, data evaluation and Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Please note that the measurement uncertainty are provided for informational purpose only and are not used in determining the Pass/Fail results.



1.1 Summary of Test Result

The EUT has been tested according to the following specifications:

Emission				
Standard	Test Item	Limit	Result	Remark
47 CFR FCC Part 15, Subpart B ICES-003	Conducted disturbance at mains terminals	Class B	Pass	Meets the requirements
	Radiated disturbance	Class B	Pass	Meets the requirements

Note: Test record contained in the referenced test report relate only to the EUT sample and test item.



2 Test Configuration of Equipment Under Test

2.1 Test Facility

FCC Designation / Registration Number:

W01: TW1117 / 831863

W08: TW1122 / 763672

Conducted disturbance at mains terminals Test

W01: 5F-1, No.188, Baoqiao Rd., Xindian Dist., New Taipei City 23145, Taiwan (R.O.C)

Radiated emission (9*6*6 Chamber) Tests

W08: No.119, Wugong 3rd Rd., Wugu Dist., New Taipei City 248, Taiwan (R.O.C)

ACCREDITATIONS

The laboratories are accredited and approved by the TAF according to ISO/IEC 17025.



2.2 Measurement Uncertainty

The measurement instrumentation uncertainty consideration contained in CISPR 16-4-2.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Please note that the measurement uncertainty are provided for informational purpose only and are not used in determining the Pass/Fail results.

2.2.1 Conducted Emission test

Test Site	Measurement Freq. Range	dB (U_{cispr})	Note
W01	150 kHz ~ 30 MHz	2.72	N/A

2.2.2 Radiated Emission test

Test Site	Measurement Freq. Range	Ant	dB (U_{cispr})	Note
W08	30 MHz ~ 200 MHz	V	3.68	N/A
	30 MHz ~ 200 MHz	H	2.70	N/A
	200 MHz ~ 1000 MHz	V	5.19	N/A
	200 MHz ~ 1000 MHz	H	3.26	N/A
	1 GHz ~ 6 GHz	V	4.98	N/A
	1 GHz ~ 6 GHz	H	5.07	N/A
	6 GHz ~ 18 GHz	V	5.09	N/A
	6 GHz ~ 18 GHz	H	4.99	N/A
	18 GHz ~ 40 GHz	V	4.72	N/A
	18 GHz ~ 40 GHz	H	4.72	N/A



3 General Information

3.1 Description of EUT

Product	M.2(NGFF) Solid State Drive
Brand	Apacer
Model	SV240-M280
Series Model	SX24X-M280 (X=A~Z, 0~9)
Applicant	Apacer Technology Inc.
Received Date	Mar. 09, 2020
EUT Power Rating	5Vdc (from host equipment)
Model Differences	The models are electrically identical, different models no. are for marketing purpose. The series model information is provided by client.
Operating System	N/A
Data Cable Supplied	N/A
Accessory Device	N/A
I/O Port	Please refer to the User's Manual

Note:

1. The EUT's highest operating frequency is more than 108MHz. Therefore the radiated emission is tested up to 6GHz.

3.2 Description of Test Modes

Test results are presented in the report as below.

Test Mode	Test Condition
Conducted emission test	
-	Normal mode
Radiated emission 30MHz ~ 1GHz test	
-	Normal mode
Radiated emission above 1GHz test	
-	Normal mode

3.3 EUT Operating Condition

- a. Inserted the EUT into PC and placed on test table.
- b. The EUT read / write data.
- c. The PC run test program “BurnIN.exe” to enable all functions.
- d. The PC sent “H” message to monitor and displayed on screen.
- e. The microphone sent voice signal to PC.
- f. The PC sent voice signal to earphone.
- g. The PC sent signal to printer.

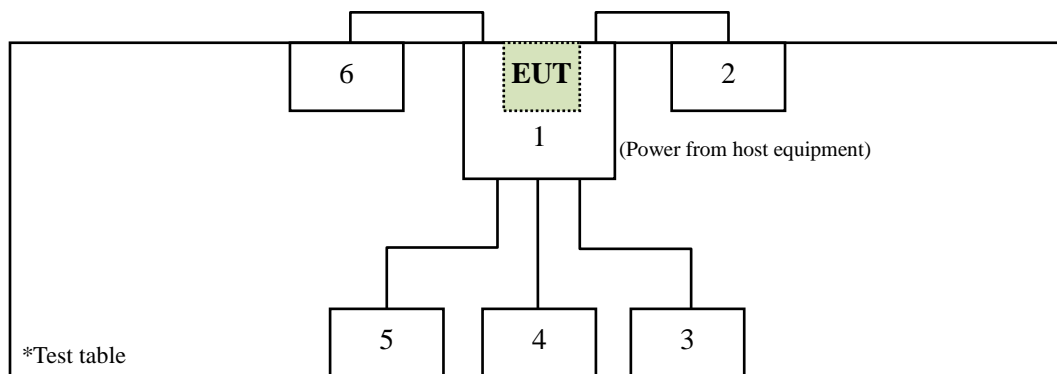
3.4 Description of Support Unit

The EUT has been conducted testing with other necessary accessories or support units.

Item	Equipment	Brand	Model No.	Serial No.	FCC ID	Data Cable	Power Cord	Remark
1	PC	DELL	D19M	N/A	PPD-QCN FA335	N/A	1.8m non-shielded cable	-
2	4K Monitor	DELL	P2415Q	CN-0GTPPW -74261-59A- 05KL	FCC DoC Approved	1.5m shielded HDMI cable	1.8m non-shielded cable	-
3	Keyboard	DELL	KB4021	N/A	FCC DoC Approved	1.5m non-shielded cable	N/A	-
4	Mouse	DELL	MS111-L	N/A	FCC DoC Approved	1.5m non-shielded cable	N/A	-
5	Earphone & Microphone	E-books	E-EPA057	N/A	N/A	1.4m non-shielded cable	N/A	-
6	Printer	HP	SNPRH-1504	CN738282V9	FCC DoC Approved	1.4m shielded cable	AC: 1.7m non-shielded cable	-

Note: 1. The core(s) is(are) originally attached to the cable(s).

3.5 Configuration of System Under Test





4 Emission Test

4.1 Conducted Emission Measurement (Frequency Range 150 KHz-30MHz)

4.1.1 Limit of Conducted Emission Measurement

Frequency (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 to 0.5	79	66	66 to 56	56 to 46
0.50 to 5.0	73	60	56	46
5.0 to 30.0	73	60	60	50

- Note:**
1. The lower limit shall apply at the transition frequencies.
 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
 3. Detector function in the form: PK = Peak, QP = Quasi Peak, AV = Average
 4. The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correction Factor = Insertion loss of LISN + Cable loss + Transient Limiter (If use)
Margin Level = Measurement Value – Limit Value



4.1.2 Test Instrument

Test Site: W01-CE					
Item	Equipment	Manufacturer	Model	Meter No.	Calibration Date
1	TWO-LINE V-NETWORK	R&S	ENV216	CT-1-025-1	Apr. 29, 2019
2	Pulse limiter	R&S®	ESH3-Z2	CT-2-015	Apr. 25, 2019
3	EMI Test Receiver	R&S	ESCI	CT-1-024	Apr. 24, 2019
4	V-LISN	Schwarzbeck	NSLK8127	CT-1-104-1	Apr. 30, 2019
5	Test Cable	Marvelous Microwave Inc	200200.400LL .500A	CT-10-048-1	Apr. 25, 2019
6	50ohm Termination	N/A	N/A	CT-1-065-1	Apr. 25, 2019
7	Measurement Software	EZ-EMC	Ver: EMC-CON 3A1	CT-3-012	No calibration request

Note: 1. The calibration interval of the above test instruments is 12 months.

4.1.3 Test Procedure

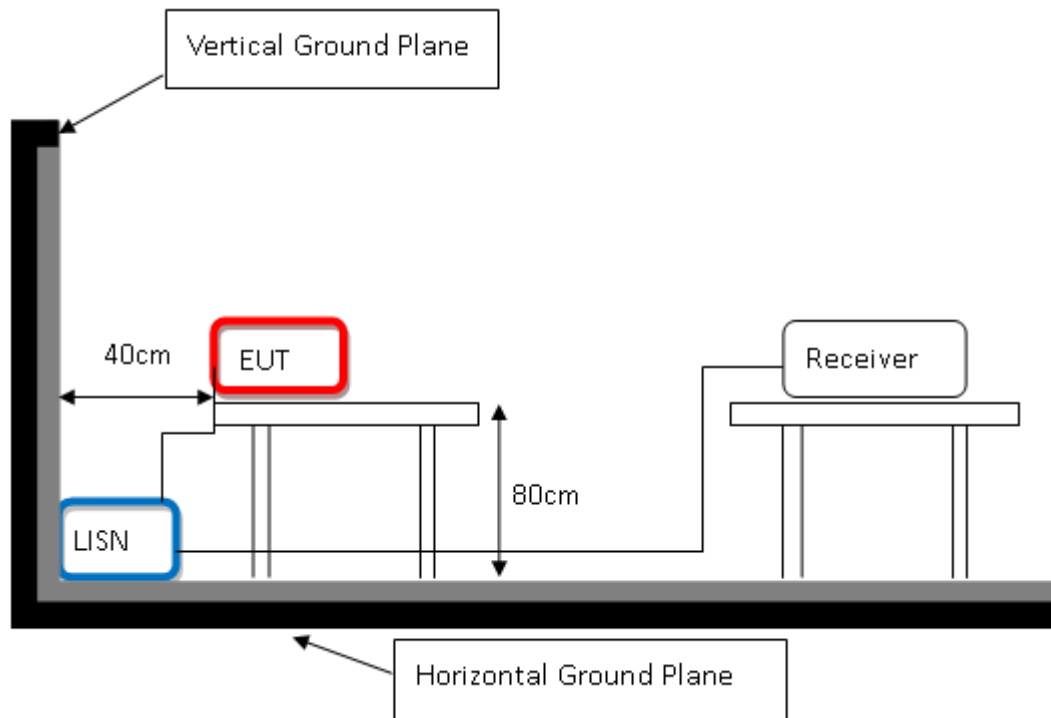
- a. The table-top EUT was placed 0.8 meter height wooden table from the horizontal ground plane with EUT being connected to power source through a line impedance stabilization network (LISN). The LISN at least be 80 cm from nearest chassis of EUT. The floor-standing EUT and all cables shall be insulated from the ground plane by up to 12 mm of insulating material if required.
- b. The line impedance stabilization network (LISN) provides 50 ohm/50uH of coupling impedance for the measuring instrument. All other support equipments powered from additional LISN(s).
- c. Interrelating cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle. All I/O cables were positioned to simulate typical usage.
- d. All I/O cables that are not connected to a peripheral shall be bundle in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- e. The EMI test receiver connected to LISN powering the EUT. The actual test configuration, please refer to EUT test photos.
- f. The receiver scanned from 150kHz to 30MHz for emissions in each of test modes. A scan was taken on both power lines, Line and Neutral, recording at least six highest emissions.
- g. The EUT and cable configuration of the above highest emission levels were recorded. The test data of the worst case was recorded.

4.1.4 Deviation from Test Standard

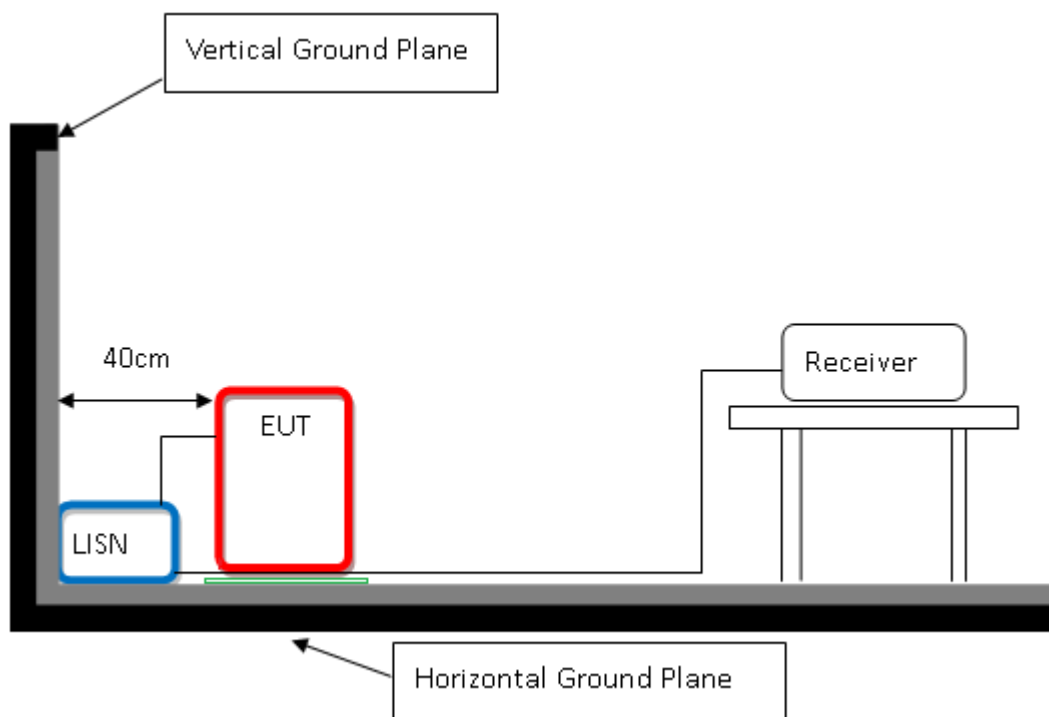
No deviation

4.1.5 Test Setup

< Table-Top equipment >



< Floor-Standing equipment >

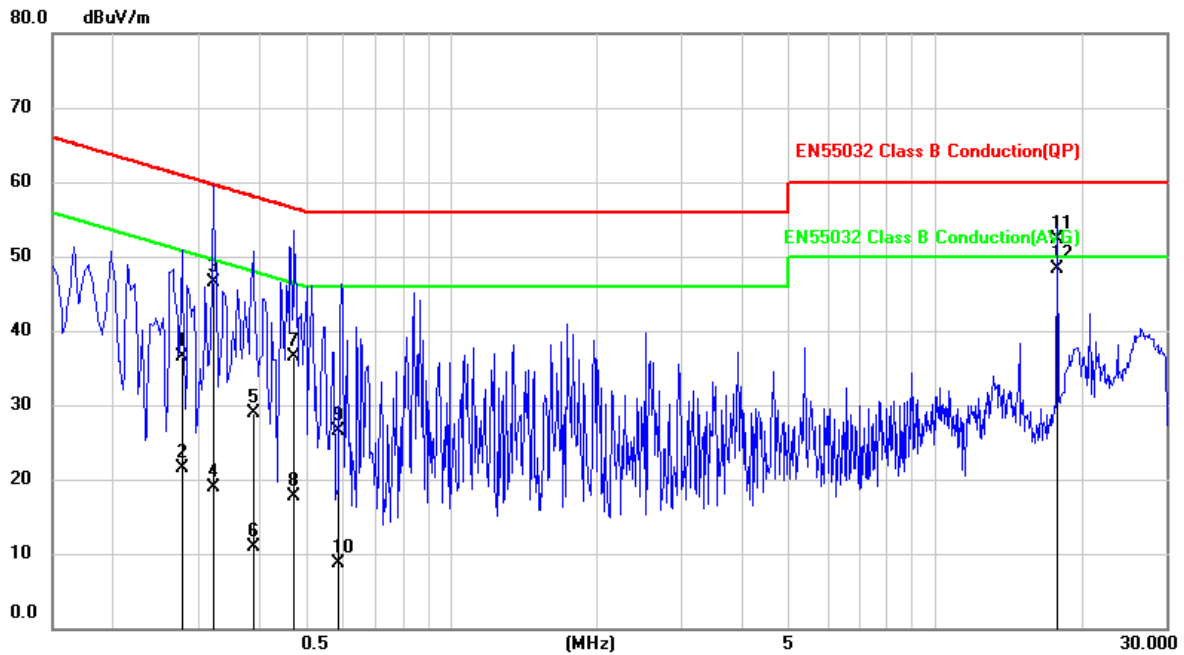


Note: Please refer to 4.1.7 for the actual test configuration.



4.1.6 Test Result

Test Voltage	120Vac, 60Hz	Frequency Range	0.15-30 MHz
Environmental Conditions	22°C, 45% RH	6dB Bandwidth	9 kHz
Test Date	2020/03/16	Phase	L
Tested by	Guanwei Liao	Test Site	W01

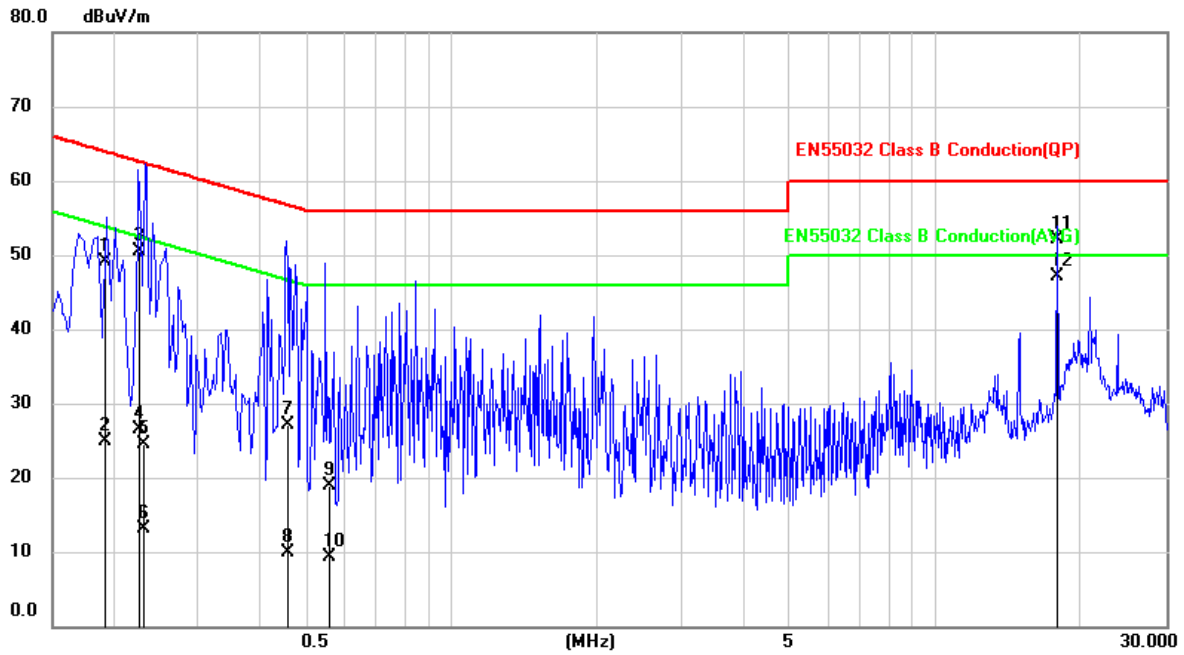


No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2778	26.53	9.94	36.47	60.88	-24.41	QP
2	0.2778	11.50	9.94	21.44	50.88	-29.44	AVG
3	0.3215	36.48	9.94	46.42	59.67	-13.25	QP
4	0.3215	9.06	9.94	19.00	49.67	-30.67	AVG
5	0.3899	19.03	9.94	28.97	58.07	-29.10	QP
6	0.3899	0.99	9.94	10.93	48.07	-37.14	AVG
7	0.4757	26.57	9.94	36.51	56.41	-19.90	QP
8	0.4757	7.72	9.94	17.66	46.41	-28.75	AVG
9	0.5831	16.55	9.94	26.49	56.00	-29.51	QP
10	0.5831	-1.19	9.94	8.75	46.00	-37.25	AVG
11	17.8903	42.15	10.13	52.28	60.00	-7.72	QP
12	17.8903	38.24	10.13	48.37	50.00	-1.63	AVG

Remark: 1. QP = Quasi Peak, AVG = Average
 2. Correction Factor = Insertion loss of LISN + Cable loss + Transient Limiter (If use)
 3. Measurement Value = Reading Level + Correct Factor
 4. Margin Level = Measurement Value - Limit Value



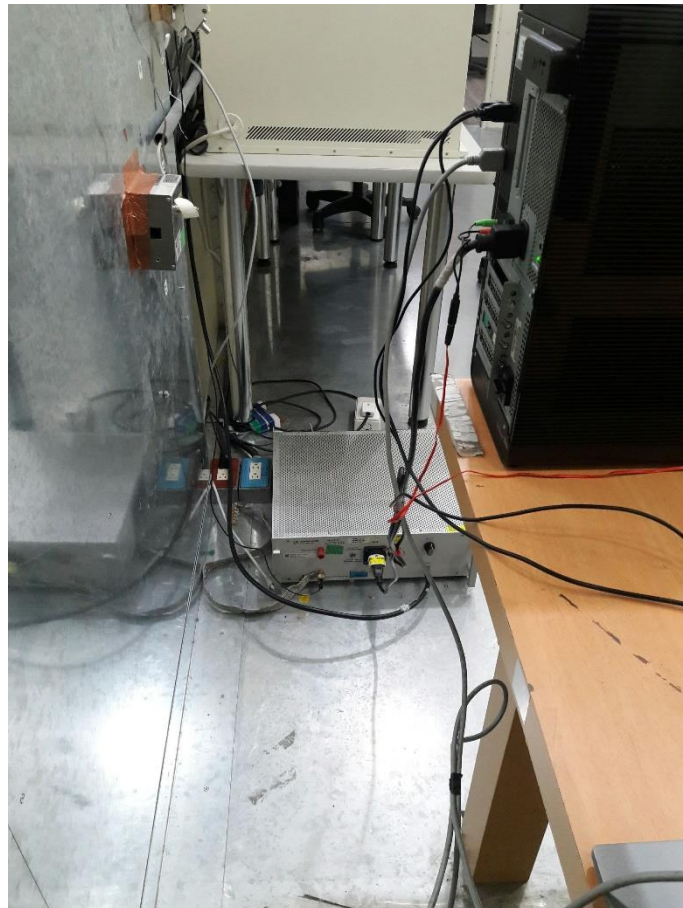
Test Voltage	120Vac, 60Hz	Frequency Range	0.15-30 MHz
Environmental Conditions	22°C, 45% RH	6dB Bandwidth	9 kHz
Test Date	2020/03/16	Phase	N
Tested by	Guanwei Liao	Test Site	W01



No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1915	39.19	9.94	49.13	63.97	-14.84	QP
2	0.1915	14.88	9.94	24.82	53.97	-29.15	AVG
3	0.2276	40.48	9.94	50.42	62.54	-12.12	QP
4	0.2276	16.62	9.94	26.56	52.54	-25.98	AVG
5	0.2312	14.55	9.94	24.49	62.41	-37.92	QP
6	0.2312	3.17	9.94	13.11	52.41	-39.30	AVG
7	0.4589	17.18	9.94	27.12	56.71	-29.59	QP
8	0.4589	-0.12	9.94	9.82	46.71	-36.89	AVG
9	0.5602	8.97	9.94	18.91	56.00	-37.09	QP
10	0.5602	-0.67	9.94	9.27	46.00	-36.73	AVG
11	17.8950	42.01	10.13	52.14	60.00	-7.86	QP
12	17.8950	36.88	10.13	47.01	50.00	-2.99	AVG

Remark: 1. QP = Quasi Peak, AVG = Average
 2. Correction Factor = Insertion loss of LISN + Cable loss + Transient Limiter (If use)
 3. Measurement Value = Reading Level + Correct Factor
 4. Margin Level = Measurement Value - Limit Value

4.1.7 Photographs of Test Configuration





4.2 Radiated Emission Measurement

4.2.1 Limits of Radiated Emission Measurement

Radiated Frequency range 30 MHz to 1000 MHz

Radiated Emissions Limits at 10 meters		
Frequencies (MHz)	FCC 15B/ ICES-003	
	Class A (dB μ V/m)	Class B (dB μ V/m)
30-88	39.1	29.5
88-216	43.5	33.1
216-230	46.4	35.6
230-960		
960-1000	49.5	43.5

Radiated Emissions Limits at 3 meters		
Frequencies (MHz)	FCC 15B/ ICES-003	
	Class A (dB μ V/m)	Class B (dB μ V/m)
30-88	49.5	40
88-216	54	43.5
216-230	56.9	46
230-960		
960-1000	60	54

Note: 1. The lower limit shall apply at the transition frequency.

2. Detector function in the form: PK = Peak, QP = Quasi Peak, AV = Average

3. The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correction Factor = Antenna factor + Cable loss (Antenna to preamplifier) - preamplifier Gain
+ Cable loss (preamplifier to receiver)

Margin Level = Measurement Value - Limit Value

**Radiated Frequency range above 1 GHz**

Radiated Emissions Limits at 3meters				
Frequencies (GHz)	FCC 15B/ ICES-003			
	Class A (dB μ V/m)		Class B (dB μ V/m)	
	Peak	Average	Peak	Average
1 to 40	80	60	74	54

- Note:**
1. The lower limit shall apply at the transition frequency.
 2. Detector function in the form: PK = Peak, QP = Quasi Peak, AV = Average
 3. The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correction Factor = Antenna factor + Cable loss (Antenna to preamplifier) - preamplifier Gain
 + Cable loss (preamplifier to receiver)
 Margin Level = Measurement Value - Limit Value

Frequency Range (For unintentional radiators)

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705-108	1000
108-500	2000
500-1000	5000
Above 1000	5th harmonic of the highest frequency or 40GHz, whichever is lower



4.2.2 Test Instrument

Test Site: W08-966					
Item	Equipment	Manufacturer	Model	Meter No.	Calibration Date
1	Horn Antenna	Schwarzbeck	BBHA 9120D	CT-9-031	Sep. 26, 2019
2	Horn Antenna	Schwarzbeck	BBHA 9170	CT-9-032	Oct. 02, 2019
3	TRILOG Broadband Antenna with 5 dB Attenuator	Schwarzbeck	VULB 9168 & FAT-NM5NF5T3 G2W5	CT-1-002-1	Aug. 12, 2019
4	EXA Signal Analyzer	Keysight	N9010A	CT-1-093	Apr. 25, 2019
5	EMI Test Receiver	Keysight	N9038A	CT-9-007	Jul. 23, 2019
6	Preamplifier	EMEC	EMC003835B	CT-1-099	Jul. 24, 2019
7	Preamplifier	EMCI	EM01G18G	CT-9-025	Sep. 24, 2019
8	Preamplifier	EMCI	EMC051845SE	CT-9-012	Sep. 25, 2019
9	Preamplifier	EMCI	EMC184045SE	CT-9-013	Sep. 25, 2019
10	Test Cable	EMCI	EMCCFD400-N M-NM-1000	CT-1-132	Jul. 24, 2019
11	Test Cable	PEWC	CFD400NL-LW-NM-NM-3000	CT-1-141	Nov. 06, 2019
12	Test Cable	EMCI	EMCCFD400-N M-NM-15000	CT-1-133	Jul. 24, 2019
13	Test Cable	EMCI	EMC104-SM-35 M-600	CT-1-134	Jul. 23, 2019
14	Test Cable	EMCI	EMC104-SM-35 M-15000	CT-1-135	Jul. 23, 2019
15	Test Cable	EMCI	EMC102-KM-K M-600	CT-1-136	Jul. 23, 2019
16	Test Cable	HUBER+SUHNER	SF102	CT-9-002-1	Sep. 25, 2019
17	Measurement Software	EZ-EMC	Ver : FA-03A2 RE	CT-3-012	No calibration request

Note: 1. The calibration interval of the above test instruments is 12 months.



4.2.3 Test Procedure

- a. The table-top EUT was placed on the top of a turntable 0.8 meters above the ground at 3 m 966 chamber. The floor-standing EUT and all cables shall be insulated from the ground plane by up to 12 mm of insulating material if required. The table was rotated 360 degrees to determine the position of the high radiation emissions.
- b. The height of the test antenna shall vary between 1 m to 4 m. Both vertical and horizontal polarizations of the antenna were set to make the measurement.
- c. The EUT was set up as per the test configuration to simulate typical usage per the user's manual. All I/O cables were positioned to simulate typical usage. The actual test configuration, please refer to EUT test photos.
- d. The initial step in collecting radiated emission data is a Spectrum Mode scanning the measurement frequency range.

Below 1GHz:

Reading in which marked as QP or Peak means measurements by using Spectrum Mode with detector RBW=120kHz.

If the Spectrum Mode measured peak value compliance with and lower than Quasi Peak Limit, the EUT shall be deemed to meet QP Limits.

Above 1GHz:

Reading in which marked as Peak & AVG means measurements by using Spectrum Mode with setting in RBW=1MHz.

If the Spectrum Mode measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak and AVG Limits.

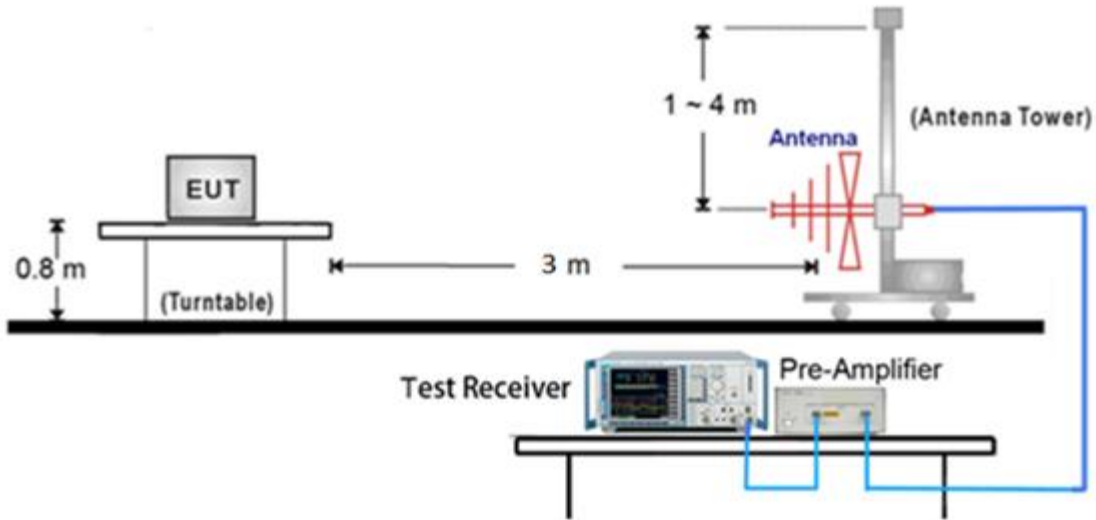
- e. Emission frequency and amplitude were recorded, recording at least six highest emissions. The EUT and cable configuration of the above highest emission levels were recorded. The test data of the worst case was recorded.

4.2.4 Deviation from Test Standard

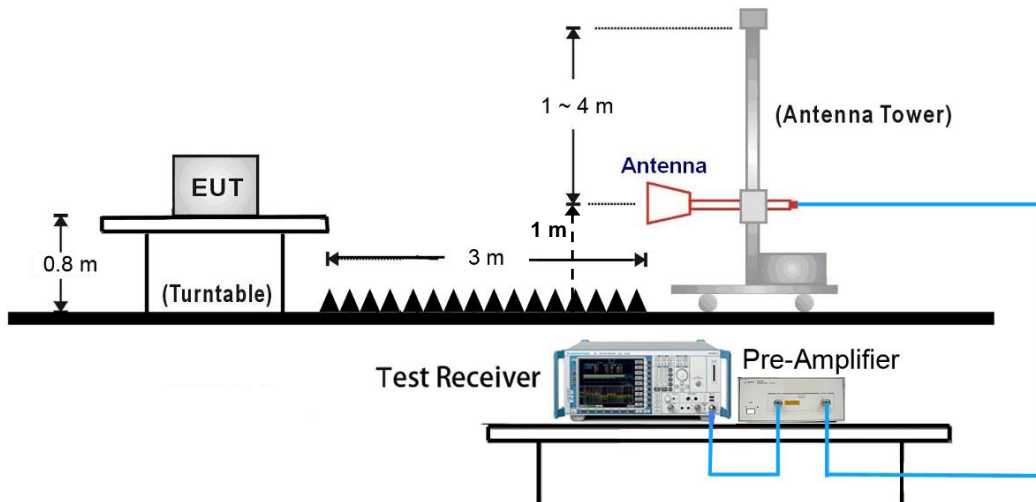
No deviation

4.2.5 Test Setup

< Radiated Emissions Frequency: 30 MHz to 1000 MHz >



< Radiated Emissions Frequency: above 1GHz >



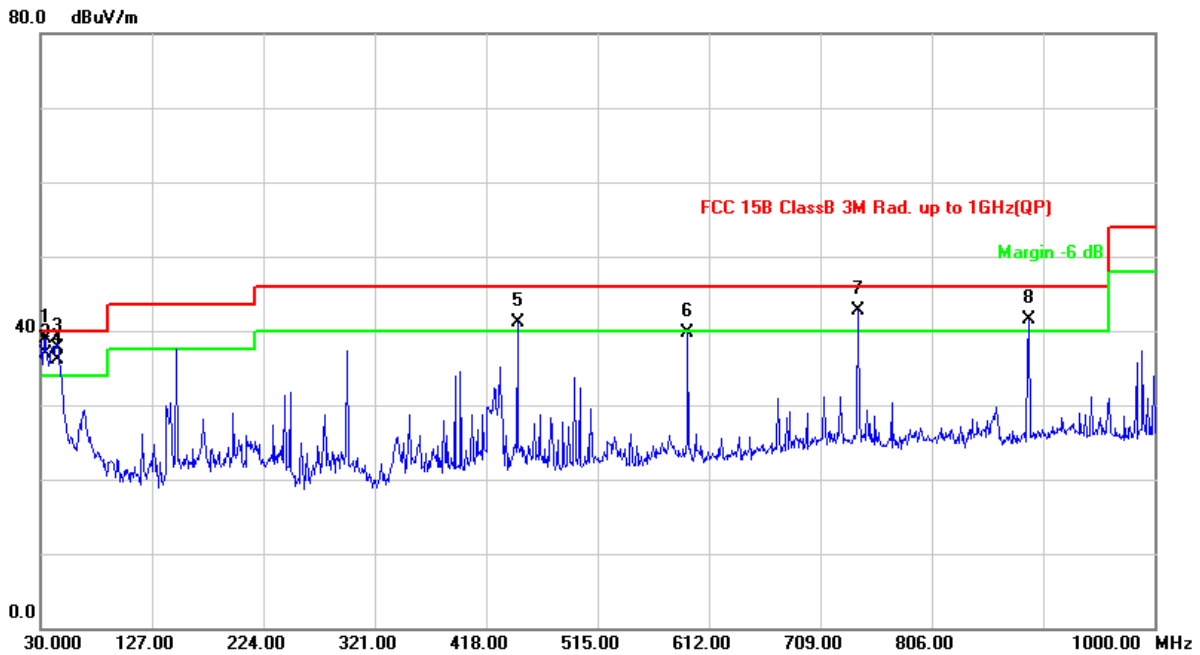
Note:

- (1) Please refer to the 4.2.7 for the actual test configuration.
- (2) The formula of measured value as: $\text{Test Result} = \text{Reading} + \text{Correction Factor}$
- (3) Detector function in the form: PK = Peak, QP = Quasi Peak, AV = Average
- (4) The test result calculated as following:
 $\text{Measurement Value} = \text{Reading Level} + \text{Correct Factor}$
 $\text{Correct Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain (if use)}$
 $\text{Margin Level} = \text{Measurement Value} - \text{Limit Value}$



4.2.6 Test Result

Test Voltage	120Vac, 60Hz	Frequency Range	30 – 1000 MHz
Environmental Conditions	21°C, 60% RH	6dB Bandwidth	120 kHz
Test Date	2020/03/19	Test Distance	3m
Tested by	Karwin Kao	Polarization	Vertical
Test Site	W08		

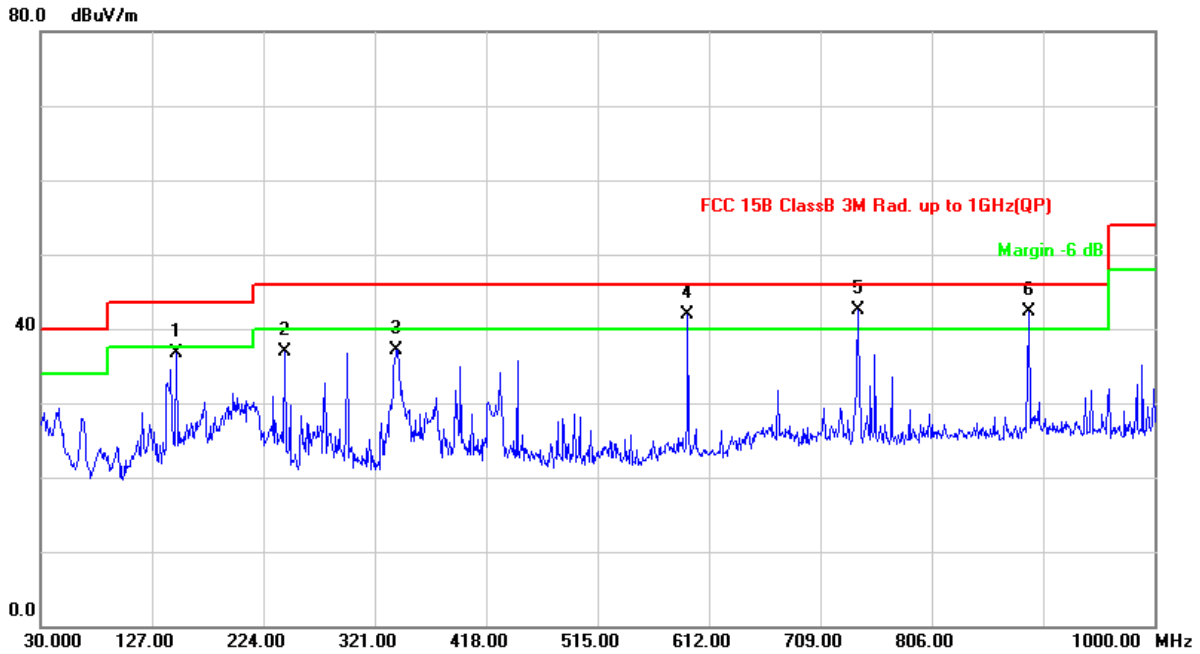


No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Height (cm)	Table Degree (degree)
1	33.8800	54.97	-16.08	38.89	40.00	-1.11	peak	100	248
2	33.8800	52.98	-16.08	36.90	40.00	-3.10	QP	100	248
3	44.5499	52.58	-14.95	37.63	40.00	-2.37	peak	100	90
4	44.5499	51.09	-14.95	36.14	40.00	-3.86	QP	100	90
5	445.1600	53.38	-12.21	41.17	46.00	-4.83	peak	100	147
6	593.5700	49.12	-9.47	39.65	46.00	-6.35	peak	200	151
7	741.9800	50.35	-7.63	42.72	46.00	-3.28	peak	100	137
8	890.3899	47.40	-5.96	41.44	46.00	-4.56	peak	100	212

- Remark:**
1. QP = Quasi Peak
 2. Correction Factor = Antenna factor + Cable loss (Antenna to preamplifier) - preamplifier Gain + Cable loss (preamplifier to receiver)
 3. Measurement Value = Reading Level + Correct Factor
 4. Margin Level = Measurement Value - Limit Value



Test Voltage	120Vac, 60Hz	Frequency Range	30 – 1000 MHz
Environmental Conditions	21°C, 60% RH	6dB Bandwidth	120 kHz
Test Date	2020/03/19	Test Distance	3m
Tested by	Karwin Kao	Polarization	Horizontal
Test Site	W08		

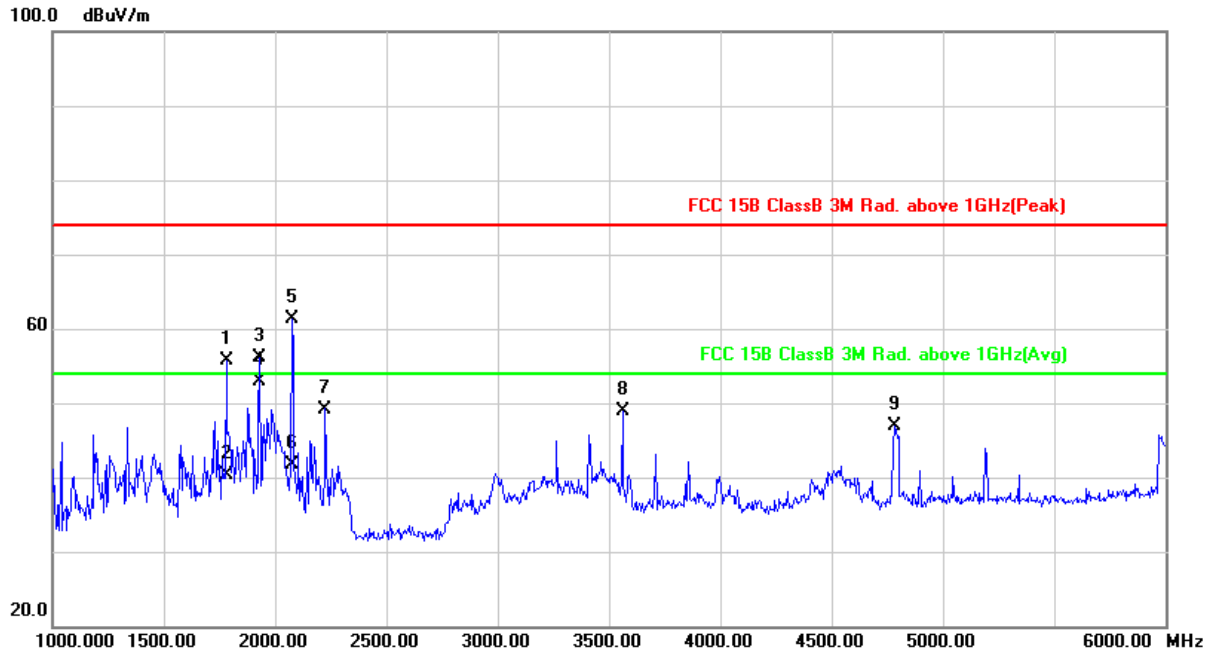


No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Height (cm)	Table Degree (degree)
1	148.3400	52.06	-15.44	36.62	43.50	-6.88	peak	200	80
2	242.4300	51.82	-14.96	36.86	46.00	-9.14	peak	100	87
3	339.4300	51.60	-14.41	37.19	46.00	-8.81	peak	100	330
4	593.5700	51.41	-9.47	41.94	46.00	-4.06	peak	200	105
5	741.9800	50.05	-7.63	42.42	46.00	-3.58	peak	200	148
6	890.3900	48.36	-5.96	42.40	46.00	-3.60	peak	100	169

Remark: 1. QP = Quasi Peak
 2. Correction Factor = Antenna factor + Cable loss (Antenna to preamplifier) - preamplifier Gain + Cable loss (preamplifier to receiver)
 3. Measurement Value = Reading Level + Correct Factor
 4. Margin Level = Measurement Value - Limit Value



Test Voltage	120Vac, 60Hz	Frequency Range	1 – 6GHz
Environmental Conditions	21°C, 60% RH	6dB Bandwidth	1MHz
Test Date	2020/03/19	Test Distance	3m
Tested by	Karwin Kao	Polarization	Vertical
Test Site	W08		

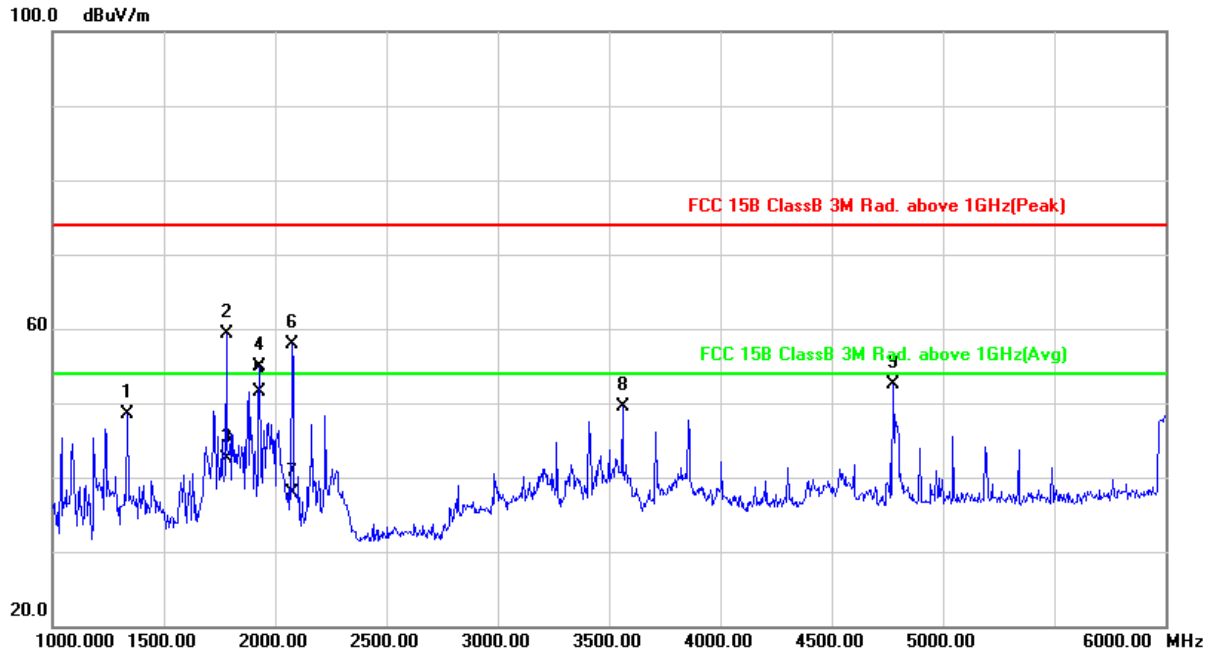


No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Height (cm)	Table Degree (degree)
1	1780.000	76.75	-20.97	55.78	74.00	-18.22	peak	100	113
2	1780.000	61.17	-20.97	40.20	54.00	-13.80	AVG	100	113
3	1930.000	76.32	-20.29	56.03	74.00	-17.97	peak	100	142
4	1930.000	73.16	-20.29	52.87	54.00	-1.13	AVG	100	142
5	2075.000	80.54	-19.29	61.25	74.00	-12.75	peak	100	113
6	2075.000	60.94	-19.29	41.65	54.00	-12.35	AVG	100	113
7	2225.000	66.88	-17.68	49.20	74.00	-24.80	peak	200	174
8	3560.000	64.55	-15.65	48.90	74.00	-25.10	peak	100	178
9	4780.000	59.78	-12.79	46.99	74.00	-27.01	peak	100	138

Remark: 1. peak = Peak, AVG = Average
 2. Correction Factor = Antenna factor + Cable loss (Antenna to preamplifier) - preamplifier Gain + Cable loss (preamplifier to receiver)
 3. Measurement Value = Reading Level + Correct Factor
 4. Margin Level = Measurement Value - Limit Value



Test Voltage	120Vac, 60Hz	Frequency Range	1 – 6GHz
Environmental Conditions	21°C, 60% RH	6dB Bandwidth	1MHz
Test Date	2020/03/19	Test Distance	3m
Tested by	Karwin Kao	Polarization	Horizontal
Test Site	W08		



No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Height (cm)	Table Degree (degree)
1	1335.000	69.40	-20.89	48.51	74.00	-25.49	peak	100	124
2	1780.000	80.20	-20.97	59.23	74.00	-14.77	peak	100	203
3	1780.000	63.54	-20.97	42.57	54.00	-11.43	AVG	100	203
4	1930.000	75.11	-20.29	54.82	74.00	-19.18	peak	100	214
5	1930.000	71.86	-20.29	51.57	54.00	-2.43	AVG	100	214
6	2075.000	77.25	-19.29	57.96	74.00	-16.04	peak	100	124
7	2075.000	57.18	-19.29	37.89	54.00	-16.11	AVG	100	124
8	3560.000	65.06	-15.65	49.41	74.00	-24.59	peak	100	221
9	4775.000	65.19	-12.78	52.41	74.00	-21.59	peak	200	289

Remark: 1. peak = Peak, AVG = Average
 2. Correction Factor = Antenna factor + Cable loss (Antenna to preamplifier) - preamplifier Gain + Cable loss (preamplifier to receiver)
 3. Measurement Value = Reading Level + Correct Factor
 4. Margin Level = Measurement Value - Limit Value

4.2.7 Photographs of Test Configuration

Radiated Emission Test (30MHz~1GHz)



Radiated Emission Test (Above 1GHz)



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