



FCC EMI TEST REPORT

FCC ID : PY7-77310Z
Equipment : GSM/WCDMA/LTE Phone with BT, DTS/UNII
a/b/g/n/ac/lax, GPS, and NFC
Brand Name : Sony
Applicant : Sony Mobile Communications Inc.
4-12-3 Higashi-Shinagawa, Shinagawa-ku,
Tokyo, 140-0002, Japan
Manufacturer : Sony Mobile Communications Inc.
4-12-3 Higashi-Shinagawa, Shinagawa-ku,
Tokyo, 140-0002, Japan
Standard : FCC 47 CFR FCC Part 15 Subpart B Class B

The product was received on Jul. 28, 2020 and testing was started from Aug. 04, 2020 and completed on Aug. 06, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1. General Description	5
1.1. Product Feature of Equipment Under Test	5
1.2. Modification of EUT	5
1.3. Test Location	6
1.4. Applicable Standards	6
2. Test Configuration of Equipment Under Test	7
2.1. Test Mode	7
2.2. Connection Diagram of Test System	9
2.3. Support Unit used in test configuration and system	10
2.4. EUT Operation Test Setup	10
3. Test Result	11
3.1. Test of AC Conducted Emission Measurement	11
3.2. Test of Radiated Emission Measurement	13
4. List of Measuring Equipment.....	15
5. Uncertainty of Evaluation	17
Appendix A. AC Conducted Emission Test Result	
Appendix B. Radiated Emission Test Result	



History of this test report

Report No.	Version	Description	Issued Date
FC042237-02	01	Initial issue of report	Aug. 18, 2020
FC042237-02	02	Add test description.	Sep. 01, 2020



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.107	AC Conducted Emission	Pass	Under limit 7.36 dB at 0.152 MHz
3.2	15.109	Radiated Emission	Pass	Under limit 6.57 dB at 480.080 MHz

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Dara Chiu

Report Producer: Celery Wei

1. General Description

1.1. Product Feature of Equipment Under Test

GSM/WCDMA/LTE, Bluetooth, DTS/UNII a/b/g/n/ac/ax, NFC, and GNSS.

Product Specification subjective to this standard	
Antenna Type	WWAN: Loop Antenna WLAN: <Ant. 0>: Loop Antenna <Ant. 1>: Loop Antenna Bluetooth: Loop Antenna GPS/Glonass/Galileo/BDS: Loop Antenna NFC: Loop Antenna

EUT Information List			
HW Version	SW Version	S/N	Performed Test Item
A	4.248	QV7100XQ3Y	Conducted Emission Radiated Emission

Accessory List	
AC Adapter	Model Name : UCH32
	S/N: 6218W30200122
Earphone	Model Name : MH750
	S/N : N/A
Bluetooth Earphone	Model Name : SBH82D
	S/N : N/A
USB Cable	Model Name : UCB24
	S/N : N/A

Note:

- Above EUT list used are electrically identical per declared by manufacturer.
- Above the accessories list are used to exercise the EUT during test, and the serial number of each type of accessories is listed in each section of this report. .
- For other wireless features of this EUT, test report will be issued separately.

1.2. Modification of EUT

No modifications are made to the EUT during all test items.

1.3. Test Location

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No.
	CO05-HY

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No.
	03CH10-HY

FCC designation No.: TW1093 and TW1098

1.4. Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC 47 CFR FCC Part 15 Subpart B Class B
- ♦ ANSI C63.4-2014

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

2. Test Configuration of Equipment Under Test

2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

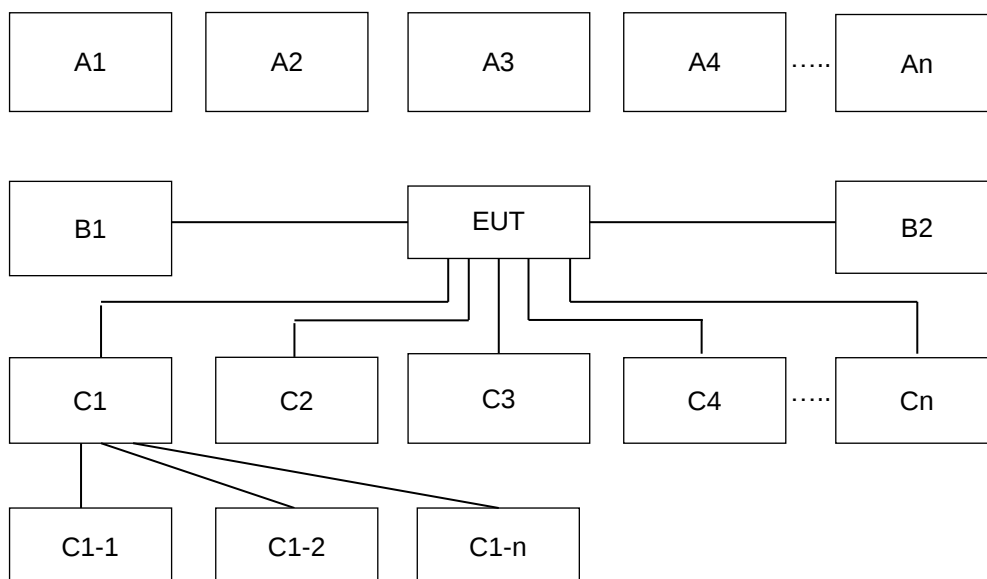
Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report

Test Items	Function Type
AC Conducted Emission	Mode 1: GSM850 (Middle Channel) Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + Camera (Front) + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 1
	Mode 2: WCDMA Band V (Middle Channel) Idle+ Bluetooth Idle + WLAN (5GHz) Idle + Camera (Rear) + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 2
	Mode 3: LTE Band 5 (Middle Channel) Idle+ Bluetooth Idle + WLAN (2.4GHz) Idle + MPEG4 + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 1
	Mode 4: LTE Band 12 (Middle Channel) Idle+ Bluetooth Idle + WLAN (5GHz) Idle + NFC On + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 2
	Mode 5: LTE Band 13 (Middle Channel) Idle+ Bluetooth Idle + WLAN (2.4GHz) Idle + GPS Rx + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 1
	Mode 6: LTE Band 17 (Middle Channel) Idle+ Bluetooth Idle + WLAN (5GHz) Idle + MPEG4 + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 2
	Mode 7: Flight Mode + Earphone + Battery + USB Cable (Data Link with Notebook)

Test Items	Function Type
Radiated Emissions	Mode 1: GSM850 (Middle Channel) Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + Camera (Front) + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 1
	Mode 2: WCDMA Band V (Middle Channel) Idle+ Bluetooth Idle + WLAN (5GHz) Idle + Camera (Rear) + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 2
	Mode 3: LTE Band 5 (Low Channel) Idle+ Bluetooth Idle + WLAN (2.4GHz) Idle + MPEG4 + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 1
	Mode 4: LTE Band 12 (Middle Channel) Idle+ Bluetooth Idle + WLAN (5GHz) Idle + NFC On + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 2
	Mode 5: LTE Band 13 (Middle Channel) Idle+ Bluetooth Idle + WLAN (2.4GHz) Idle + GPS Rx + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 1
	Mode 6: LTE Band 17 (Middle Channel) Idle+ Bluetooth Idle + WLAN (5GHz) Idle + MPEG4 + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 2
	Mode 7: Flight Mode + Earphone + Battery + USB Cable (Data Link with Notebook)
Remark: 1. For radiation emission after pre-scanned the cellular band between 30MHz ~ 960MHz (GSM850/WCDMA Band V/LTE Band 5/12/13/17; only the worst case for cellular band test data of this mode was reported. 2. Data Link with Notebook means data application transferred mode between EUT and Notebook.	

2.2. Connection Diagram of Test System



Test Setup									
No.	Wireless Station	Connection Type	Test Mode						
			1	2	3	4	5	6	7
A1	BT Earphone	Bluetooth	X	X	X	X	X	X	-
A2	System Simulator	GSM/WCDMA/LTE	X	X	X	X	X	X	-
A3	GPS Station	GPS	-	-	-	-	X	-	-
A4	AP router	WiFi	X	X	X	X	X	X	-
No.	Power Source	Connection Type	1	2	3	4	5	6	7
B1	AC : 120V/60Hz	USB Cable	X	X	X	X	X	X	-
B2	Power From System	USB Cable	-	-	-	-	-	-	X
No.	Setup Peripherals	Connection Type	1	2	3	4	5	6	7
C1	Notebook	USB Cable	-	-	-	-	-	-	X
C1-1	iPod	USB Cable to C1	-	-	-	-	-	-	X
C1-2	Notebook	RJ-45 Cable to C1	-	-	-	-	-	-	X
C2	Earphone	Earphone jack	X	X	X	X	X	X	X
C3	SD Card	SD I/O interface without Cable	X	-	X	-	X	-	X

2.3. Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	GPS Station	Pendulum	GSG-54	N/A	N/A	Unshielded, 1.8 m
3.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
4.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A
5.	Notebook	DELL	Latitude E3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
6.	Notebook	DELL	Latitude E5480	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
7.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

2.4. EUT Operation Test Setup

The EUT was in GSM, WCDMA and LTE idle mode during the testing. The EUT was synchronized with the BCCH, and had been continuous receiving mode by setting paging reorganization of the system simulator.

At the same time, the EUT was attached to the Bluetooth earphone or WLAN AP, and the following programs installed in the EUT were programmed during the test:

1. Data application is transferred between Laptop and EUT via USB cable.
2. Execute "GPS Test" to make the EUT receive continuous signals from GPS station.
3. Execute "Video player" to play MPEG4 files.
4. Turn on camera to capture images.
5. Turn on NFC function.

3. Test Result

3.1. Test of AC Conducted Emission Measurement

3.1.1. Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

<Class B>

Frequency of emission (MHz)	Conducted limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

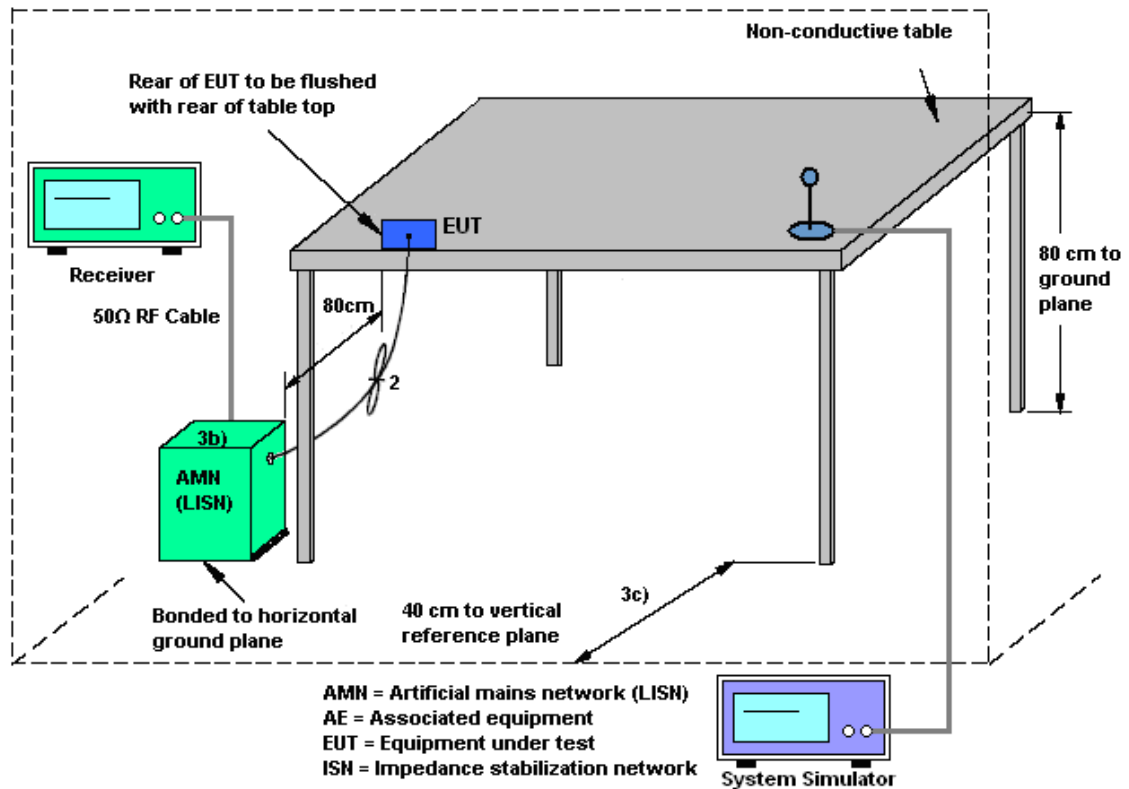
3.1.2. Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.1.3. Test Procedure

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

3.1.4. Test Setup



3.1.5. Test Result of AC Conducted Emission

Please refer to Appendix A.

3.2. Test of Radiated Emission Measurement

3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

<Class B>

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.2.2. Measuring Instruments

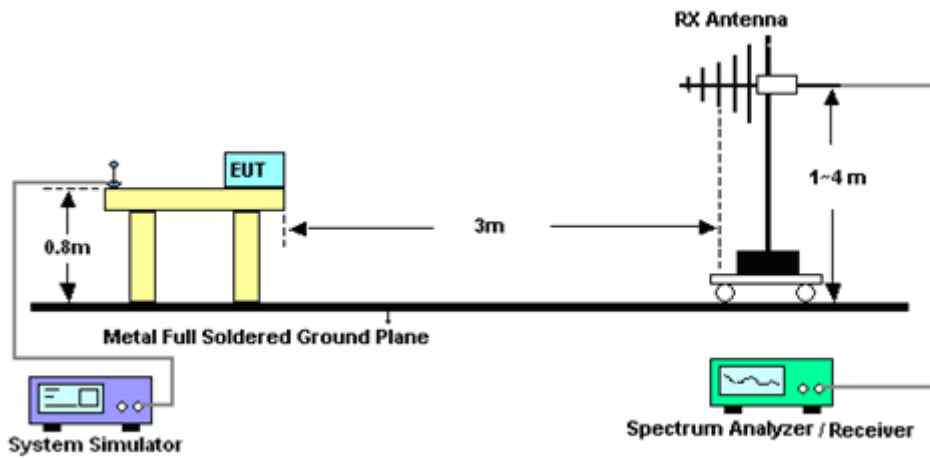
Refer a test equipment and calibration data table in this test report.

3.2.3. Test Procedures

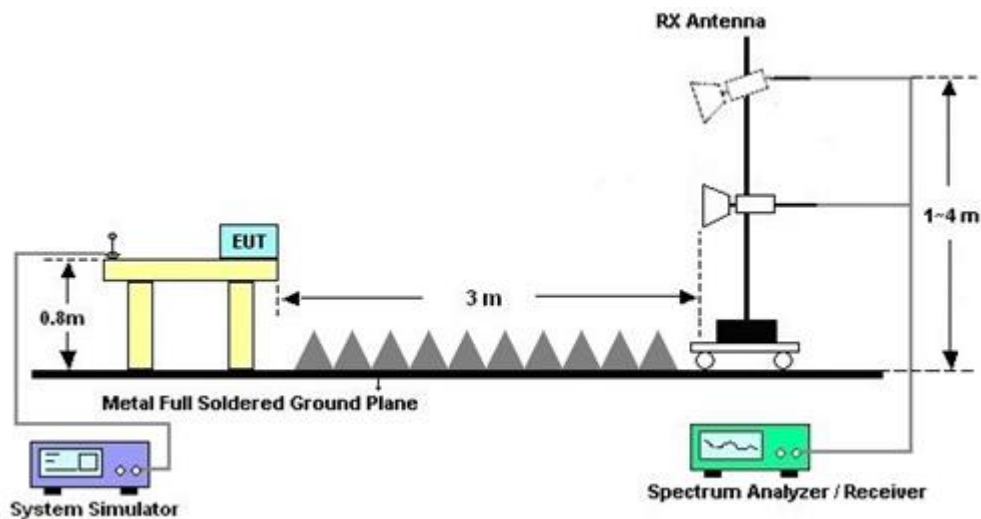
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
8. Emission level (dBμV/m) = 20 log Emission level (μV/m)
9. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.2.5. Test Result of Radiated Emission

Please refer to Appendix B.



4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Amplifier	SONOMA	310N	187311	9kHz~1GHz	Oct. 22, 2019	Aug. 04, 2020	Oct. 21, 2020	Radiation (03CH10-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	35413 & 02	30MHz~1GHz	Feb. 11, 2020	Aug. 04, 2020	Feb. 10, 2021	Radiation (03CH10-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1325	1GHz~18GHz	Oct. 09, 2019	Aug. 04, 2020	Oct. 08, 2020	Radiation (03CH10-HY)
Preamplifier	Jet-Power	JAP00101800-30-10P	160118550004	1GHz~18GHz	Mar. 02, 2020	Aug. 04, 2020	Mar. 01, 2021	Radiation (03CH10-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200485	10Hz~44GHz	Feb. 10, 2020	Aug. 04, 2020	Feb. 09, 2021	Radiation (03CH10-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Aug. 04, 2020	N/A	Radiation (03CH10-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Aug. 04, 2020	N/A	Radiation (03CH10-HY)
Turn Table	EMEC	TT 2200	N/A	0~360 Degree	N/A	Aug. 04, 2020	N/A	Radiation (03CH10-HY)
Software	Audix	E3 6.2009-8-24	RK-001042	N/A	N/A	Aug. 04, 2020	N/A	Radiation (03CH10-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290045	20MHz~8.4GHz	Jan. 18, 2020	Aug. 04, 2020	Jan. 17, 2021	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104 / 102	MY11692/4PE, MY11693/4PE, MY2855/2	30MHz~1GHz	Nov. 07, 2019	Aug. 04, 2020	Nov. 06, 2020	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104 / 102	MY11692/4PE, MY11693/4PE, MY2855/2	1GHz~18GHz	Nov. 07, 2019	Aug. 04, 2020	Nov. 06, 2020	Radiation (03CH10-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	18GHz~40GHz	Nov. 26, 2019	Aug. 04, 2020	Nov. 25, 2020	Radiation (03CH10-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 13, 2019	Aug. 04, 2020	Dec. 12, 2020	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Feb. 25, 2020	Aug. 04, 2020	Feb. 24, 2021	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30MHz~40GHz	Feb. 25, 2020	Aug. 04, 2020	Feb. 24, 2021	Radiation (03CH10-HY)
Filter	Wainwright	WLJ4-1000-15 30-6000-40ST	SN2	1.53GHz Low Pass Filter	Jul. 03, 2020	Aug. 04, 2020	Jul. 02, 2021	Radiation (03CH10-HY)
Notch Filter	Wainwright	WRCGV2400/2483-2390/2493-35/10SS	SN5	2.4G	Sep. 15, 2019	Aug. 04, 2020	Sep. 14, 2020	Radiation (03CH10-HY)
Filter	Wainwright	WHKX12-2700-3000-18000-60ST	SN1	3GHz High Pass Filter	Sep. 19, 2019	Aug. 04, 2020	Sep. 18, 2020	Radiation (03CH10-HY)
Notch Filter	Wainwright	WRCJV16-5440-5470-5725-5755-40SS	SN11	5G Band 3	Jul. 03, 2020	Aug. 04, 2020	Jul. 02, 2021	Radiation (03CH10-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Aug. 06, 2020	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 15, 2019	Aug. 06, 2020	Nov. 14, 2020	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 07, 2019	Aug. 06, 2020	Nov. 06, 2020	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 20, 2019	Aug. 06, 2020	Nov. 19, 2020	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 15, 2019	Aug. 06, 2020	Nov. 14, 2020	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Aug. 06, 2020	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 02, 2020	Aug. 06, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 02, 2020	Aug. 06, 2020	Jan. 01, 2021	Conduction (CO05-HY)

5. Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.3
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.7
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.1
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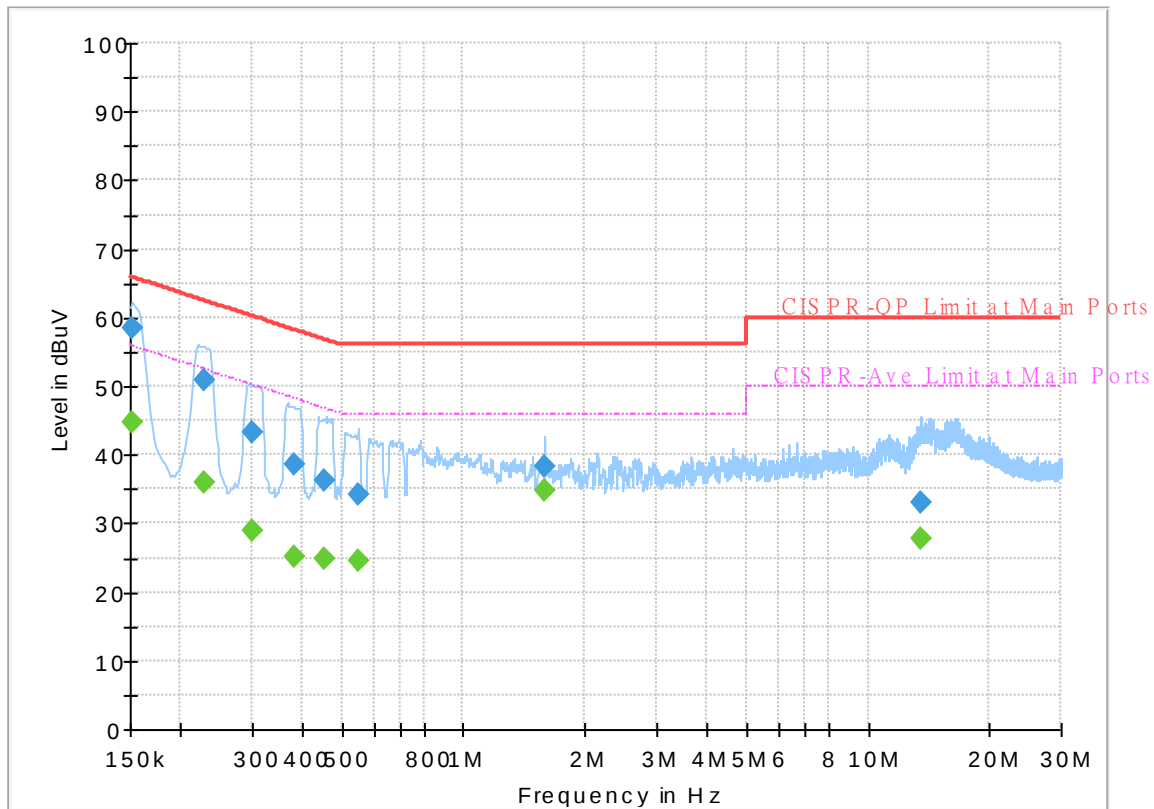
Appendix A. AC Conducted Emission Test Results

Test Engineer :	Tom Lee	Temperature :	23~25℃
		Relative Humidity :	42~50%

EUT Information

Report NO : 042237-02
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



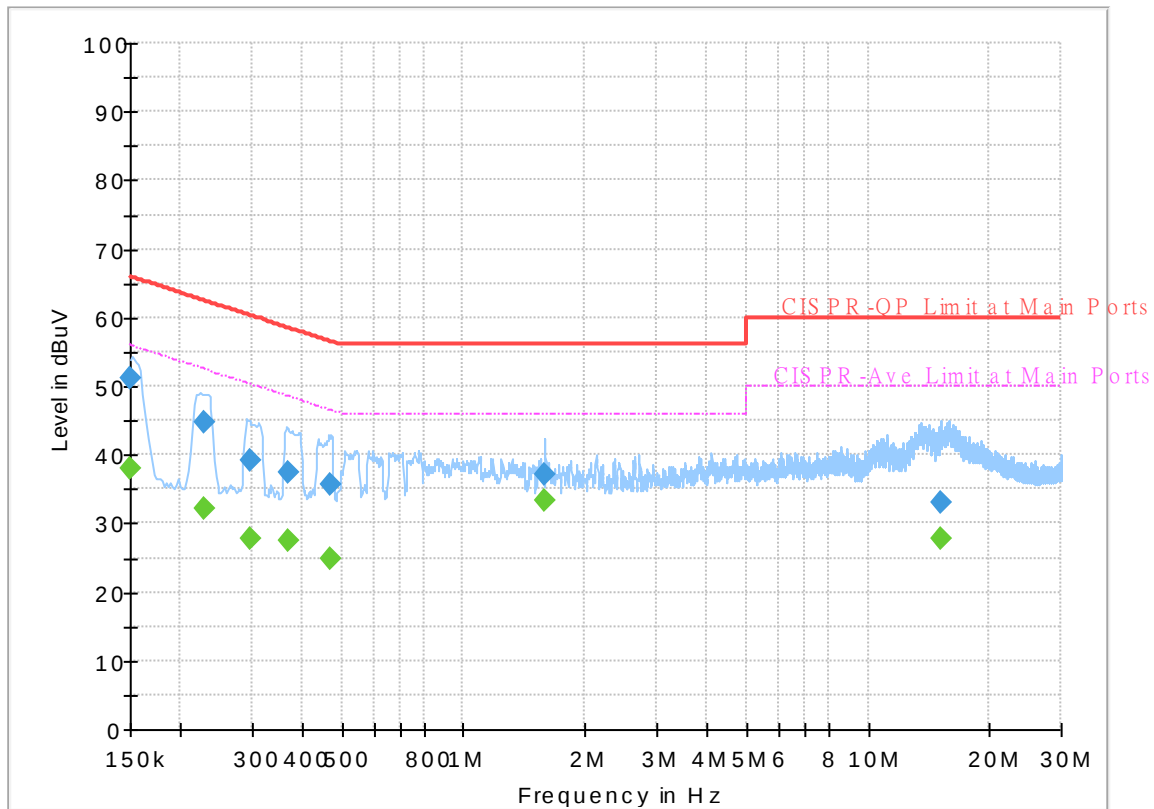
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152025	---	44.83	55.89	11.06	L1	OFF	19.6
0.152025	58.53	---	65.89	7.36	L1	OFF	19.6
0.228750	---	35.87	52.50	16.63	L1	OFF	19.6
0.228750	50.76	---	62.50	11.74	L1	OFF	19.6
0.302190	---	28.85	50.18	21.33	L1	OFF	19.6
0.302190	43.41	---	60.18	16.77	L1	OFF	19.6
0.381210	---	25.28	48.25	22.97	L1	OFF	19.6
0.381210	38.64	---	58.25	19.61	L1	OFF	19.6
0.454740	---	24.96	46.79	21.83	L1	OFF	19.6
0.454740	36.33	---	56.79	20.46	L1	OFF	19.6
0.549870	---	24.62	46.00	21.38	L1	OFF	19.6
0.549870	34.16	---	56.00	21.84	L1	OFF	19.6
1.588740	---	34.82	46.00	11.18	L1	OFF	19.6
1.588740	38.41	---	56.00	17.59	L1	OFF	19.6
13.517250	---	27.77	50.00	22.23	L1	OFF	20.2
13.517250	32.94	---	60.00	27.06	L1	OFF	20.2

EUT Information

Report NO : 042237-02
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



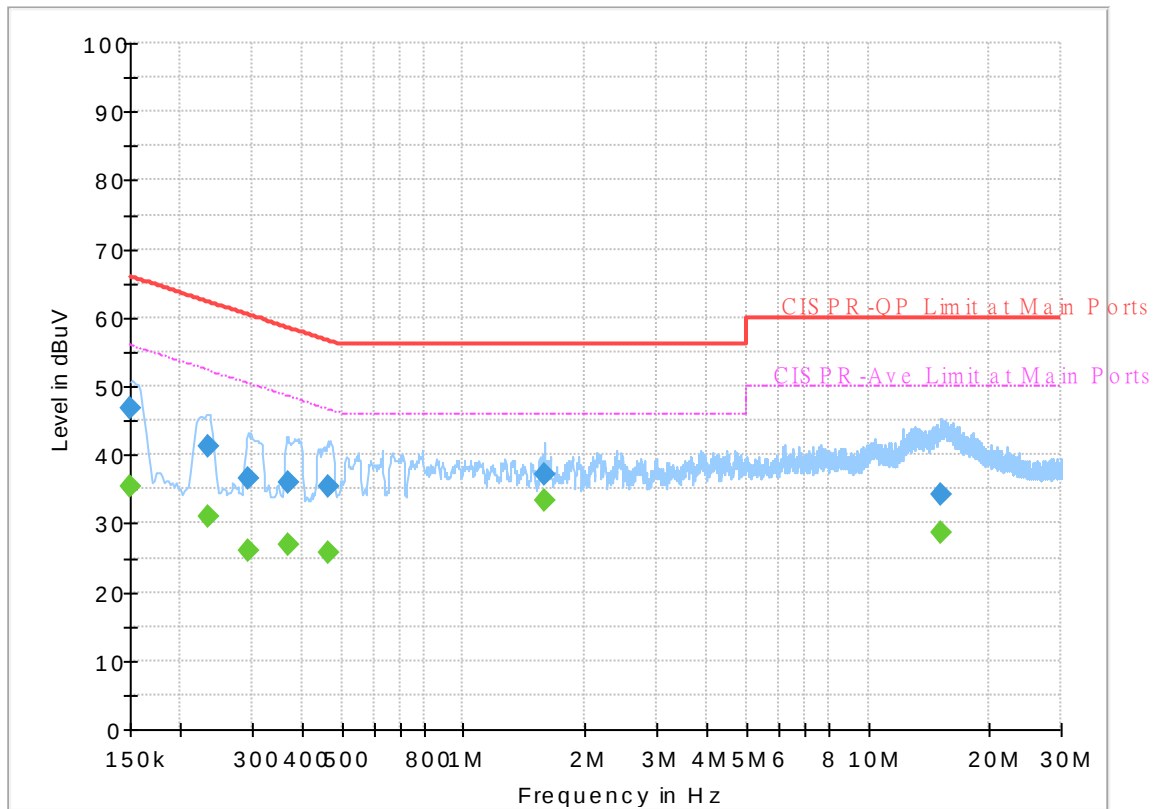
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150203	---	38.13	55.99	17.86	N	OFF	19.5
0.150203	51.32	---	65.99	14.67	N	OFF	19.5
0.228750	---	32.18	52.50	20.32	N	OFF	19.5
0.228750	44.71	---	62.50	17.79	N	OFF	19.5
0.296700	---	27.69	50.34	22.65	N	OFF	19.5
0.296700	39.27	---	60.34	21.07	N	OFF	19.5
0.369870	---	27.51	48.50	20.99	N	OFF	19.5
0.369870	37.56	---	58.50	20.94	N	OFF	19.5
0.469500	---	24.97	46.52	21.55	N	OFF	19.5
0.469500	35.69	---	56.52	20.83	N	OFF	19.5
1.588020	---	33.48	46.00	12.52	N	OFF	19.6
1.588020	37.14	---	56.00	18.86	N	OFF	19.6
15.070290	---	27.67	50.00	22.33	N	OFF	19.9
15.070290	33.05	---	60.00	26.95	N	OFF	19.9

EUT Information

Report NO : 042237-02
Test Mode : Mode 2
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



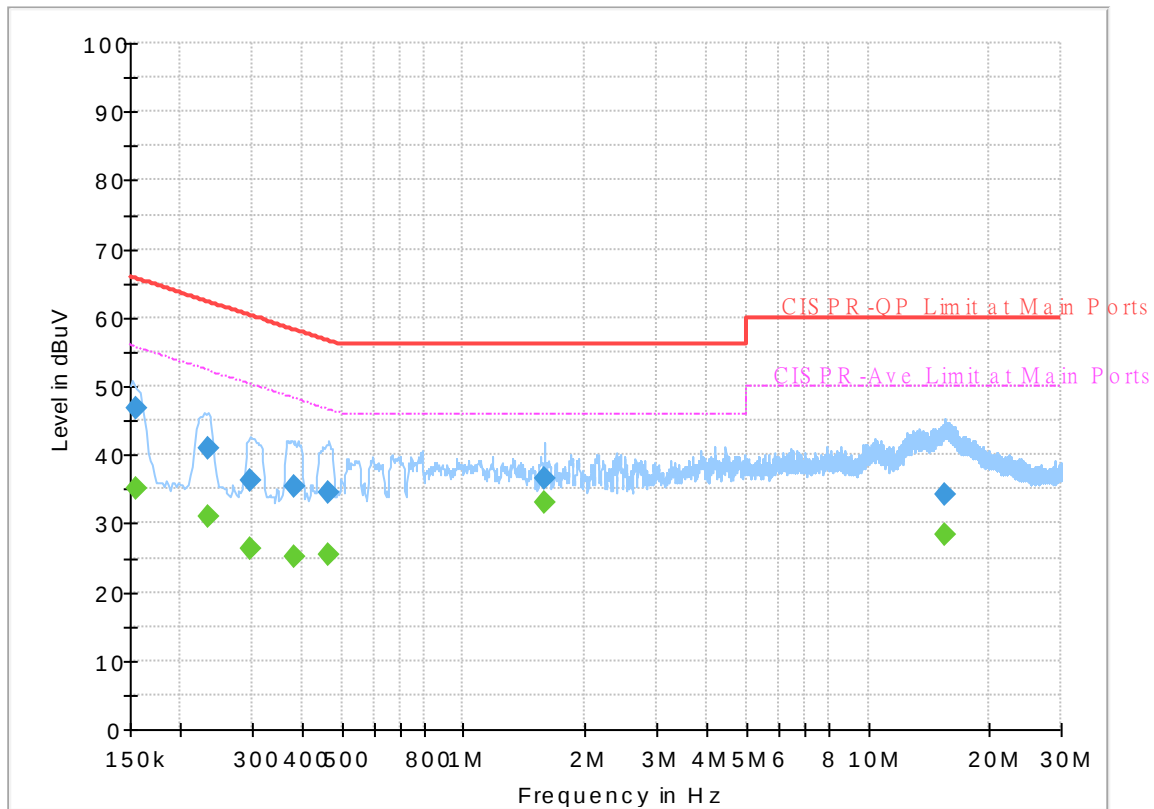
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	35.29	56.00	20.71	L1	OFF	19.6
0.150000	46.82	---	66.00	19.18	L1	OFF	19.6
0.233790	---	31.12	52.31	21.19	L1	OFF	19.6
0.233790	41.36	---	62.31	20.95	L1	OFF	19.6
0.294990	---	26.00	50.38	24.38	L1	OFF	19.6
0.294990	36.44	---	60.38	23.94	L1	OFF	19.6
0.370500	---	27.00	48.49	21.49	L1	OFF	19.6
0.370500	36.10	---	58.49	22.39	L1	OFF	19.6
0.465630	---	25.73	46.59	20.86	L1	OFF	19.6
0.465630	35.38	---	56.59	21.21	L1	OFF	19.6
1.588110	---	33.43	46.00	12.57	L1	OFF	19.6
1.588110	37.03	---	56.00	18.97	L1	OFF	19.6
15.150660	---	28.52	50.00	21.48	L1	OFF	20.2
15.150660	34.19	---	60.00	25.81	L1	OFF	20.2

EUT Information

Report NO : 042237-02
Test Mode : Mode 2
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



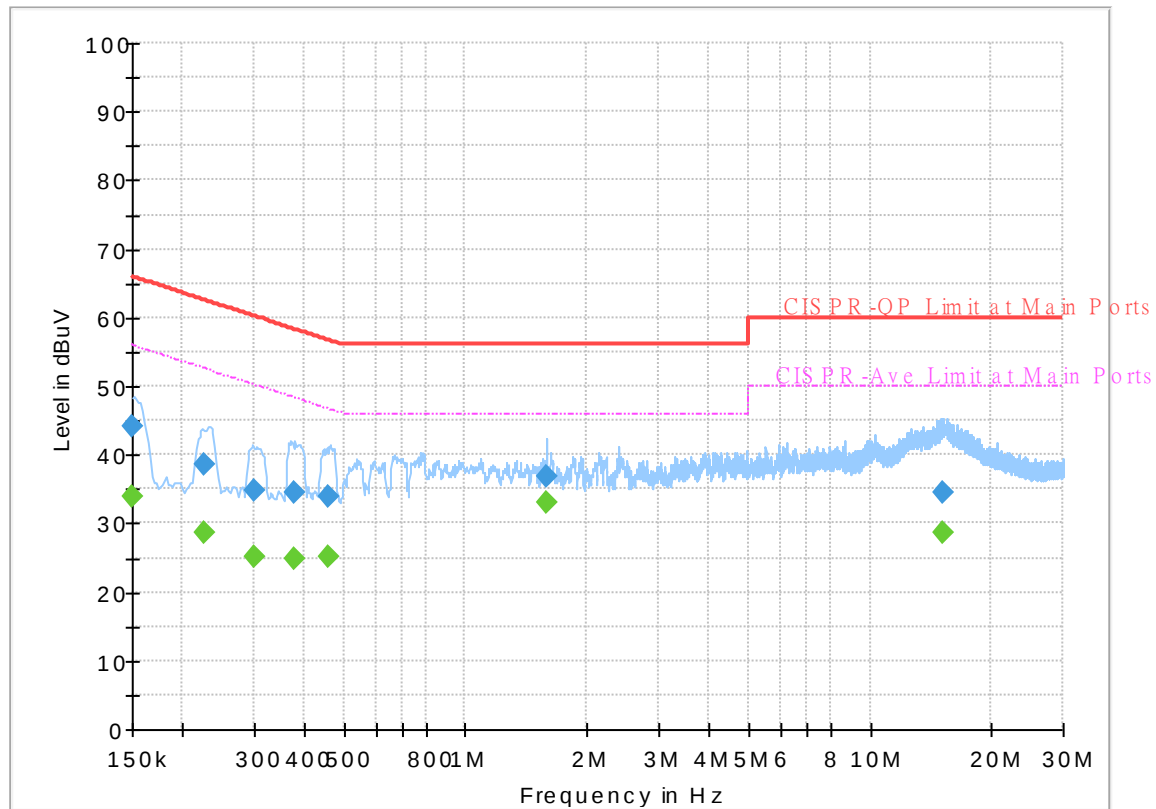
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.155670	---	35.04	55.69	20.65	N	OFF	19.5
0.155670	46.88	---	65.69	18.81	N	OFF	19.5
0.233250	---	31.09	52.33	21.24	N	OFF	19.5
0.233250	41.07	---	62.33	21.26	N	OFF	19.5
0.297330	---	26.28	50.32	24.04	N	OFF	19.5
0.297330	36.37	---	60.32	23.95	N	OFF	19.5
0.381750	---	25.15	48.24	23.09	N	OFF	19.5
0.381750	35.45	---	58.24	22.79	N	OFF	19.5
0.463110	---	25.48	46.64	21.16	N	OFF	19.5
0.463110	34.40	---	56.64	22.24	N	OFF	19.5
1.586760	---	33.12	46.00	12.88	N	OFF	19.6
1.586760	36.63	---	56.00	19.37	N	OFF	19.6
15.445140	---	28.37	50.00	21.63	N	OFF	19.9
15.445140	34.14	---	60.00	25.86	N	OFF	19.9

EUT Information

Report NO : 042237-02
Test Mode : Mode 3
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



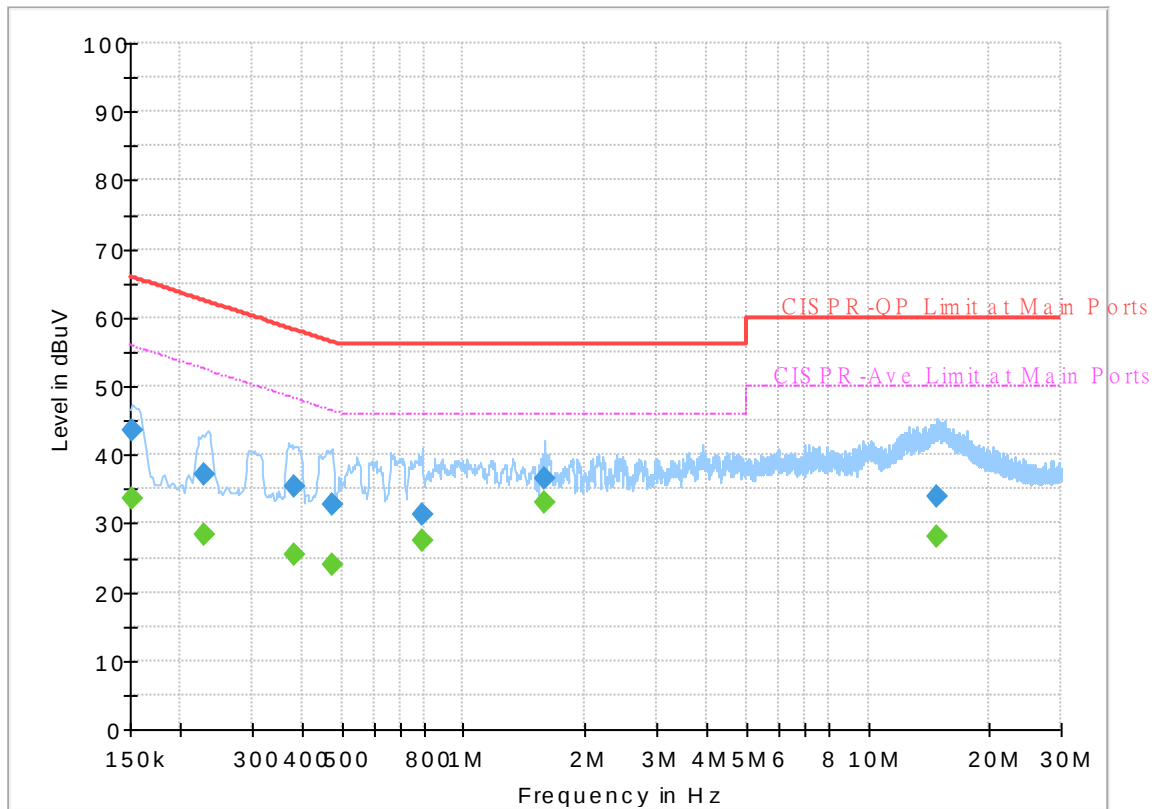
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	33.78	56.00	22.22	L1	OFF	19.6
0.150000	44.29	---	66.00	21.71	L1	OFF	19.6
0.226500	---	28.52	52.58	24.06	L1	OFF	19.6
0.226500	38.49	---	62.58	24.09	L1	OFF	19.6
0.300750	---	25.22	50.22	25.00	L1	OFF	19.6
0.300750	34.67	---	60.22	25.55	L1	OFF	19.6
0.379320	---	24.83	48.29	23.46	L1	OFF	19.6
0.379320	34.62	---	58.29	23.67	L1	OFF	19.6
0.459690	---	25.16	46.70	21.54	L1	OFF	19.6
0.459690	33.93	---	56.70	22.77	L1	OFF	19.6
1.586940	---	33.18	46.00	12.82	L1	OFF	19.6
1.586940	36.76	---	56.00	19.24	L1	OFF	19.6
15.195750	---	28.69	50.00	21.31	L1	OFF	20.2
15.195750	34.36	---	60.00	25.64	L1	OFF	20.2

EUT Information

Report NO : 042237-02
Test Mode : Mode 3
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



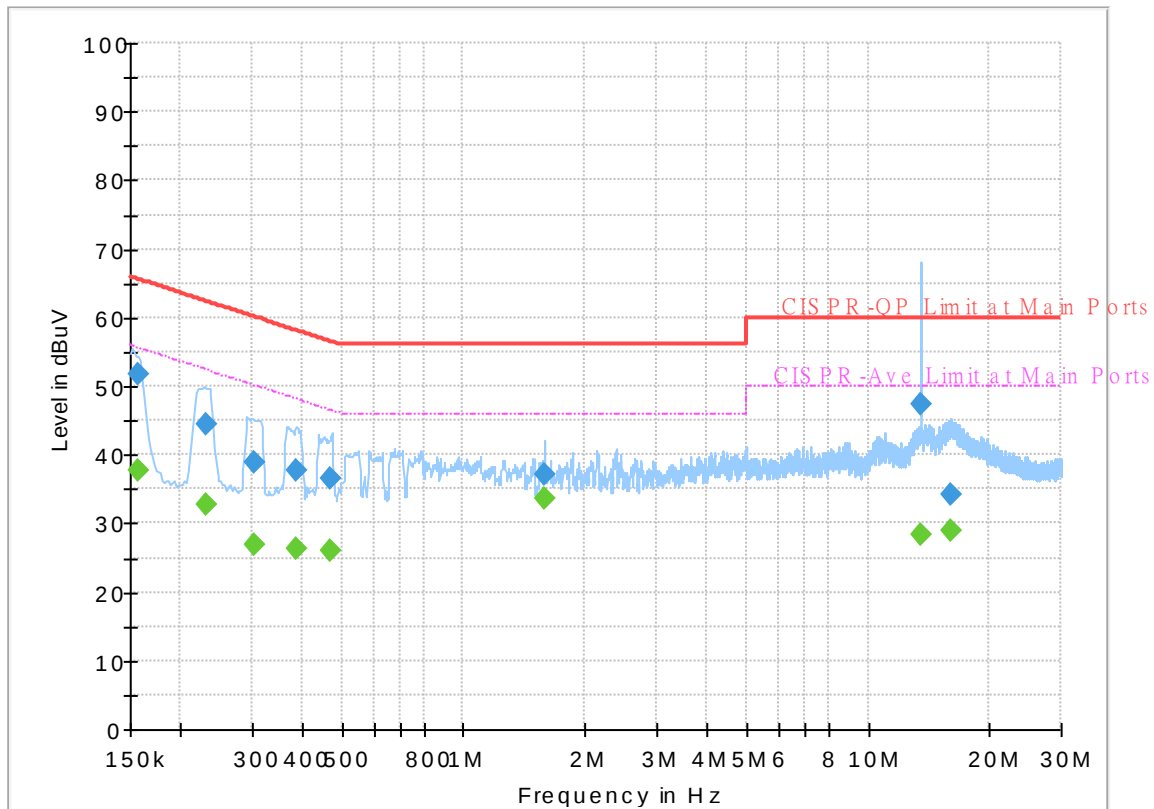
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.151755	---	33.57	55.90	22.33	N	OFF	19.5
0.151755	43.45	---	65.90	22.45	N	OFF	19.5
0.228750	---	28.46	52.50	24.04	N	OFF	19.5
0.228750	37.20	---	62.50	25.30	N	OFF	19.5
0.381750	---	25.35	48.24	22.89	N	OFF	19.5
0.381750	35.29	---	58.24	22.95	N	OFF	19.5
0.475080	---	23.94	46.43	22.49	N	OFF	19.5
0.475080	32.74	---	56.43	23.69	N	OFF	19.5
0.793500	---	27.41	46.00	18.59	N	OFF	19.6
0.793500	31.21	---	56.00	24.79	N	OFF	19.6
1.587030	---	32.97	46.00	13.03	N	OFF	19.6
1.587030	36.66	---	56.00	19.34	N	OFF	19.6
14.829000	---	28.10	50.00	21.90	N	OFF	19.9
14.829000	34.03	---	60.00	25.97	N	OFF	19.9

EUT Information

Report NO : 042237-02
 Test Mode : Mode 4
 Test Voltage : 120Vac/60Hz
 Phase : Line

Full Spectrum



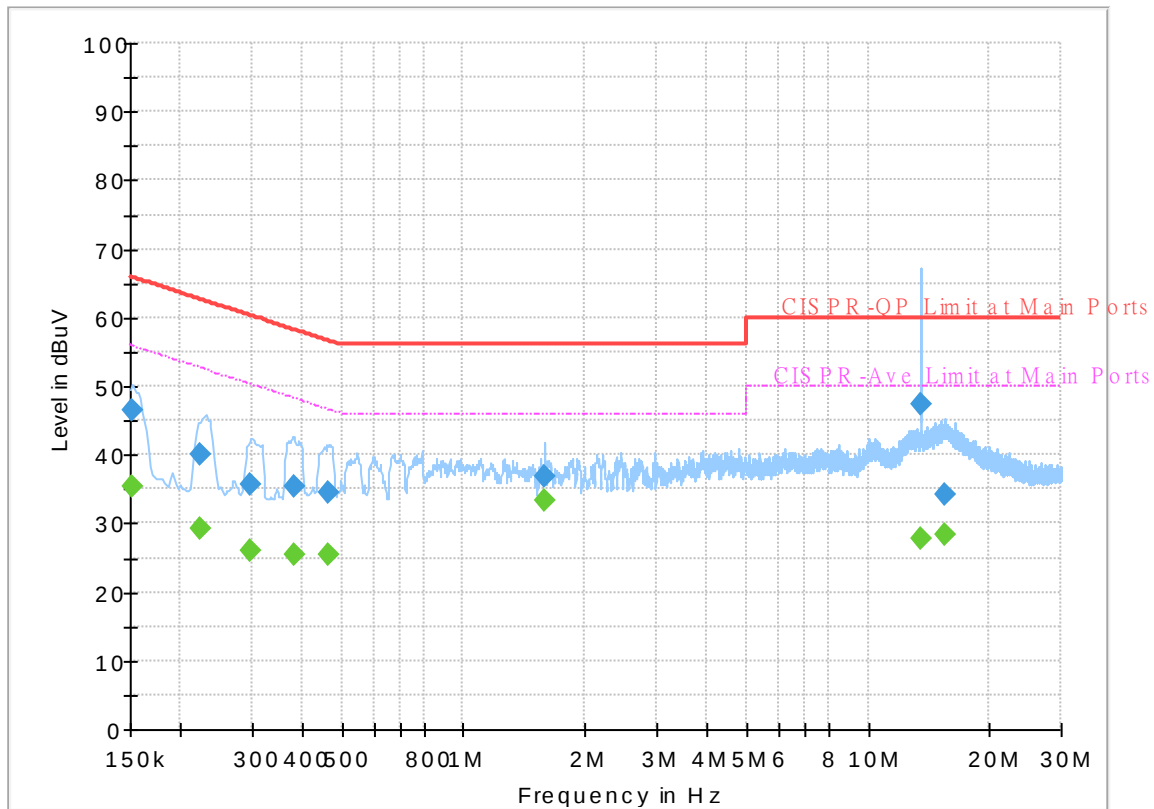
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.156750	---	37.69	55.63	17.94	L1	OFF	19.6
0.156750	51.64	---	65.63	13.99	L1	OFF	19.6
0.230910	---	32.69	52.42	19.73	L1	OFF	19.6
0.230910	44.49	---	62.42	17.93	L1	OFF	19.6
0.305250	---	26.97	50.10	23.13	L1	OFF	19.6
0.305250	38.84	---	60.10	21.26	L1	OFF	19.6
0.387780	---	26.26	48.11	21.85	L1	OFF	19.6
0.387780	37.74	---	58.11	20.37	L1	OFF	19.6
0.468780	---	26.17	46.54	20.37	L1	OFF	19.6
0.468780	36.67	---	56.54	19.87	L1	OFF	19.6
1.586490	---	33.64	46.00	12.36	L1	OFF	19.6
1.586490	37.18	---	56.00	18.82	L1	OFF	19.6
13.560000	---	28.41	50.00	21.59	L1	OFF	20.2
13.560000	47.24	---	60.00	12.76	L1	OFF	20.2
15.981000	---	29.06	50.00	20.94	L1	OFF	20.3
15.981000	34.13	---	60.00	25.87	L1	OFF	20.3

EUT Information

Report NO : 042237-02
Test Mode : Mode 4
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



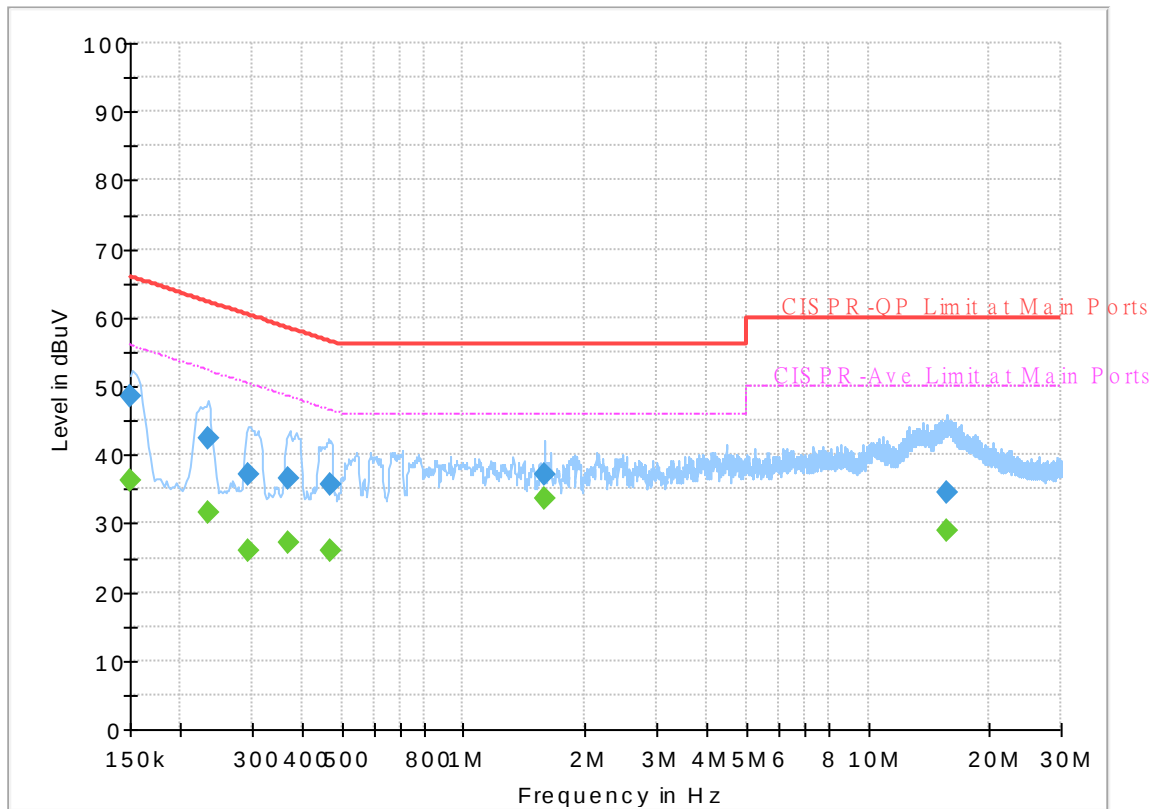
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.151620	---	35.52	55.91	20.39	N	OFF	19.5
0.151620	46.51	---	65.91	19.40	N	OFF	19.5
0.224250	---	29.27	52.66	23.39	N	OFF	19.5
0.224250	40.01	---	62.66	22.65	N	OFF	19.5
0.298230	---	26.11	50.29	24.18	N	OFF	19.5
0.298230	35.74	---	60.29	24.55	N	OFF	19.5
0.383910	---	25.39	48.19	22.80	N	OFF	19.5
0.383910	35.45	---	58.19	22.74	N	OFF	19.5
0.464100	---	25.43	46.62	21.19	N	OFF	19.5
0.464100	34.61	---	56.62	22.01	N	OFF	19.5
1.587660	---	33.38	46.00	12.62	N	OFF	19.6
1.587660	36.98	---	56.00	19.02	N	OFF	19.6
13.560000	---	27.80	50.00	22.20	N	OFF	19.9
13.560000	47.27	---	60.00	12.73	N	OFF	19.9
15.420300	---	28.47	50.00	21.53	N	OFF	19.9
15.420300	34.10	---	60.00	25.90	N	OFF	19.9

EUT Information

Report NO : 042237-02
Test Mode : Mode 5
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



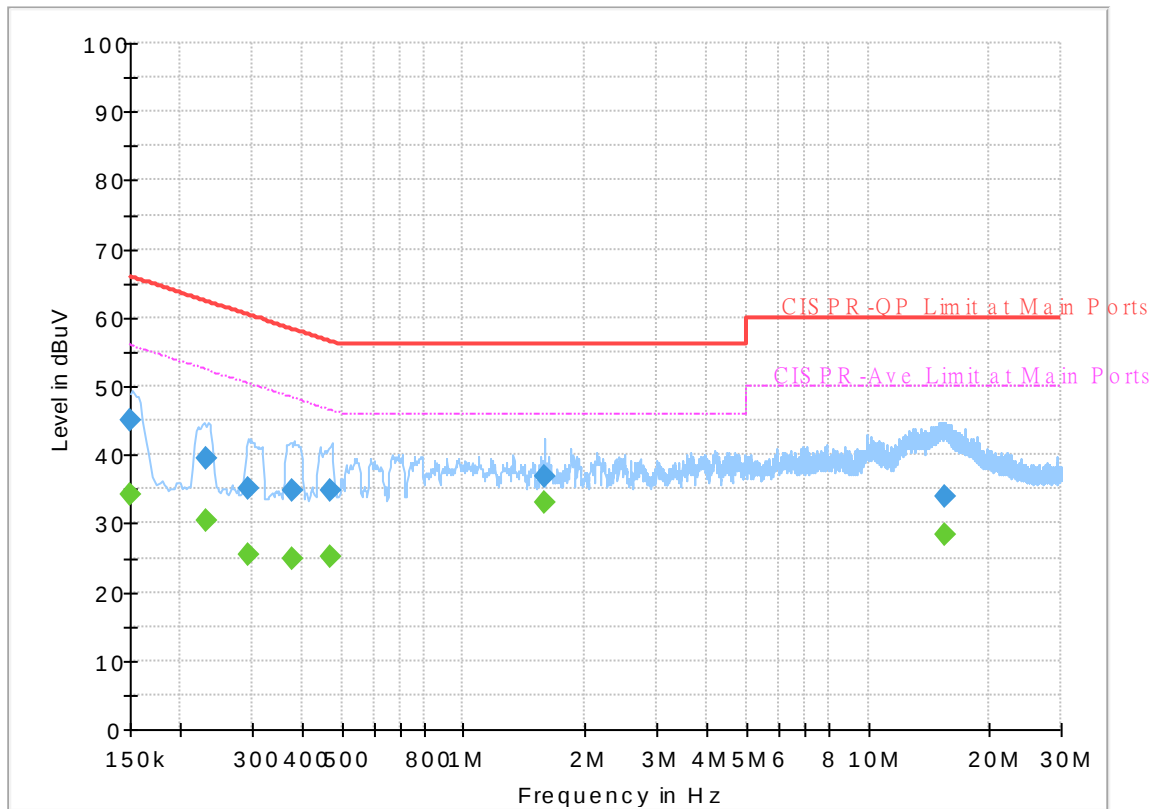
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	36.35	56.00	19.65	L1	OFF	19.6
0.150000	48.48	---	66.00	17.52	L1	OFF	19.6
0.234780	---	31.47	52.28	20.81	L1	OFF	19.6
0.234780	42.46	---	62.28	19.82	L1	OFF	19.6
0.293370	---	25.98	50.43	24.45	L1	OFF	19.6
0.293370	37.09	---	60.43	23.34	L1	OFF	19.6
0.370680	---	27.06	48.49	21.43	L1	OFF	19.6
0.370680	36.53	---	58.49	21.96	L1	OFF	19.6
0.468240	---	25.95	46.55	20.60	L1	OFF	19.6
0.468240	35.73	---	56.55	20.82	L1	OFF	19.6
1.585950	---	33.59	46.00	12.41	L1	OFF	19.6
1.585950	37.05	---	56.00	18.95	L1	OFF	19.6
15.717660	---	29.02	50.00	20.98	L1	OFF	20.2
15.717660	34.39	---	60.00	25.61	L1	OFF	20.2

EUT Information

Report NO : 042237-02
Test Mode : Mode 5
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



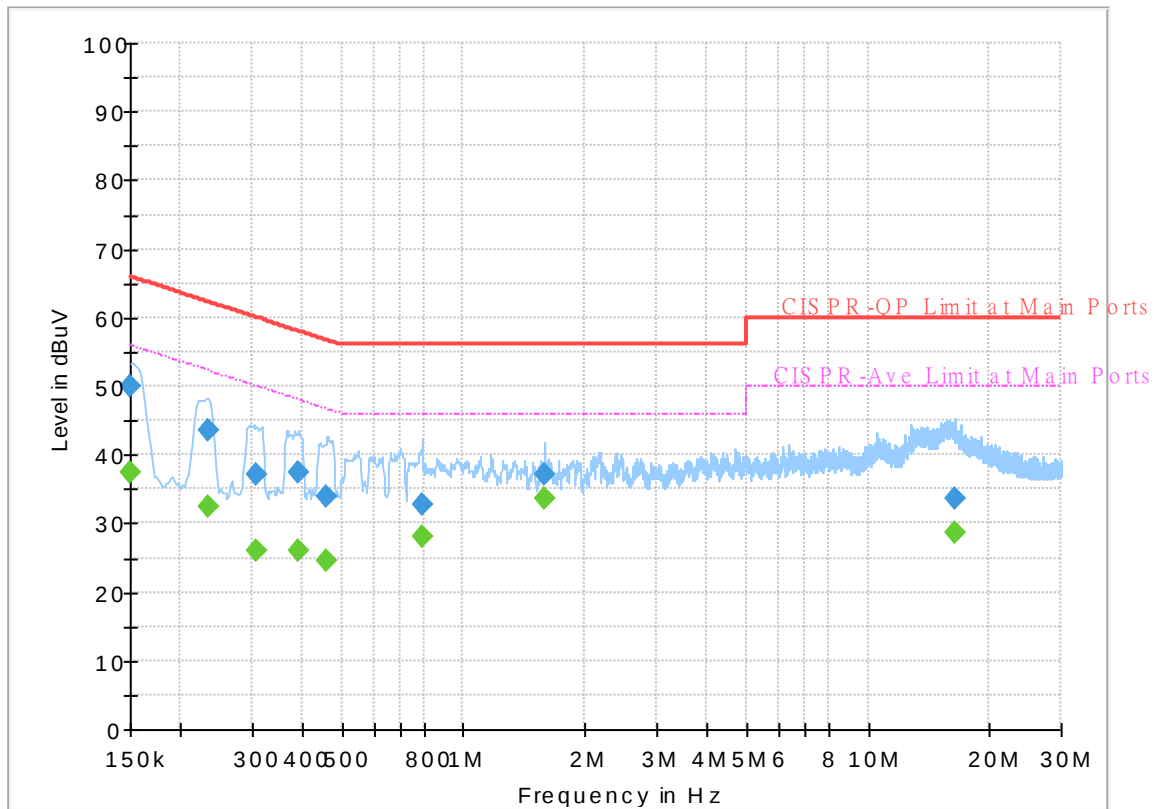
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	34.14	56.00	21.86	N	OFF	19.6
0.150000	45.01	---	66.00	20.99	N	OFF	19.6
0.231000	---	30.29	52.41	22.12	N	OFF	19.5
0.231000	39.38	---	62.41	23.03	N	OFF	19.5
0.294450	---	25.55	50.40	24.85	N	OFF	19.5
0.294450	35.22	---	60.40	25.18	N	OFF	19.5
0.379500	---	24.90	48.29	23.39	N	OFF	19.5
0.379500	34.78	---	58.29	23.51	N	OFF	19.5
0.471390	---	25.18	46.49	21.31	N	OFF	19.5
0.471390	34.69	---	56.49	21.80	N	OFF	19.5
1.586040	---	33.15	46.00	12.85	N	OFF	19.6
1.586040	36.75	---	56.00	19.25	N	OFF	19.6
15.414630	---	28.31	50.00	21.69	N	OFF	19.9
15.414630	33.96	---	60.00	26.04	N	OFF	19.9

EUT Information

Report NO : 042237-02
 Test Mode : Mode 6
 Test Voltage : 120Vac/60Hz
 Phase : Line

Full Spectrum



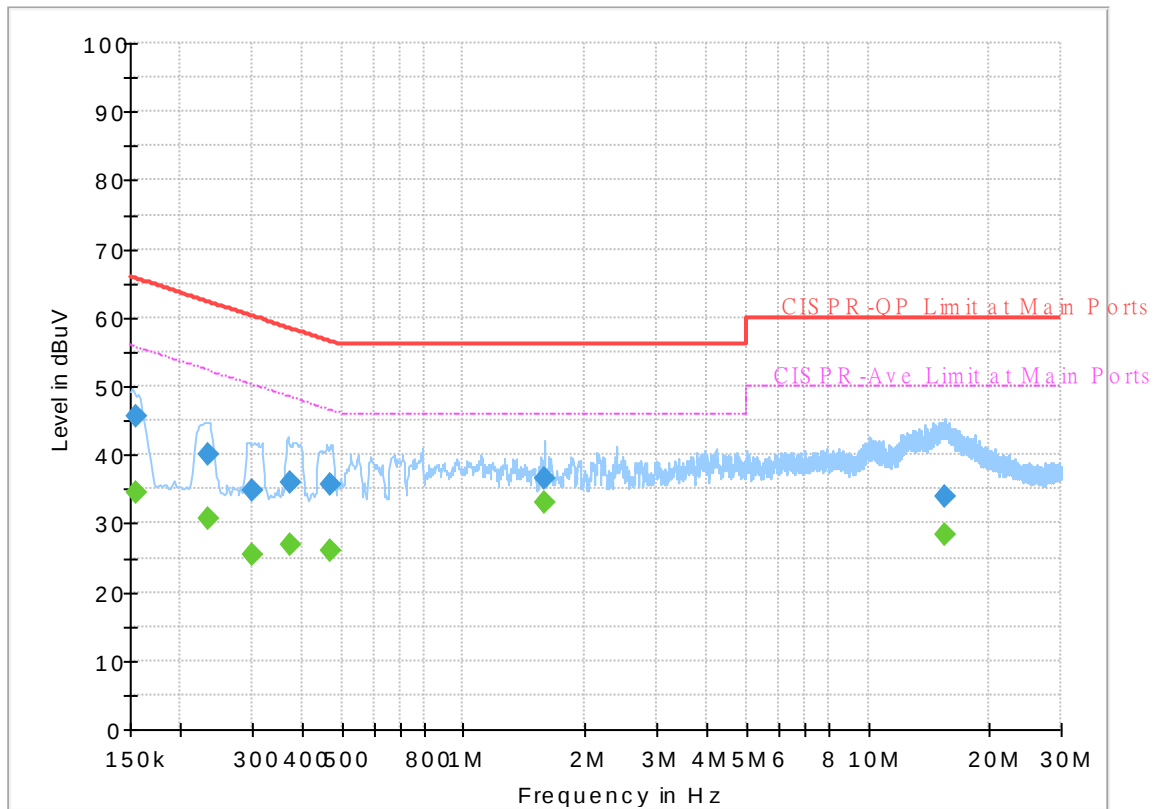
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	37.35	56.00	18.65	L1	OFF	19.6
0.150000	49.90	---	66.00	16.10	L1	OFF	19.6
0.233160	---	32.37	52.34	19.97	L1	OFF	19.6
0.233160	43.51	---	62.34	18.83	L1	OFF	19.6
0.306150	---	26.07	50.07	24.00	L1	OFF	19.6
0.306150	37.09	---	60.07	22.98	L1	OFF	19.6
0.388500	---	25.99	48.10	22.11	L1	OFF	19.6
0.388500	37.37	---	58.10	20.73	L1	OFF	19.6
0.458340	---	24.67	46.72	22.05	L1	OFF	19.6
0.458340	34.06	---	56.72	22.66	L1	OFF	19.6
0.792420	---	27.99	46.00	18.01	L1	OFF	19.6
0.792420	32.67	---	56.00	23.33	L1	OFF	19.6
1.586940	---	33.54	46.00	12.46	L1	OFF	19.6
1.586940	37.14	---	56.00	18.86	L1	OFF	19.6
16.368000	---	28.61	50.00	21.39	L1	OFF	20.3
16.368000	33.56	---	60.00	26.44	L1	OFF	20.3

EUT Information

Report NO : 042237-02
Test Mode : Mode 6
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



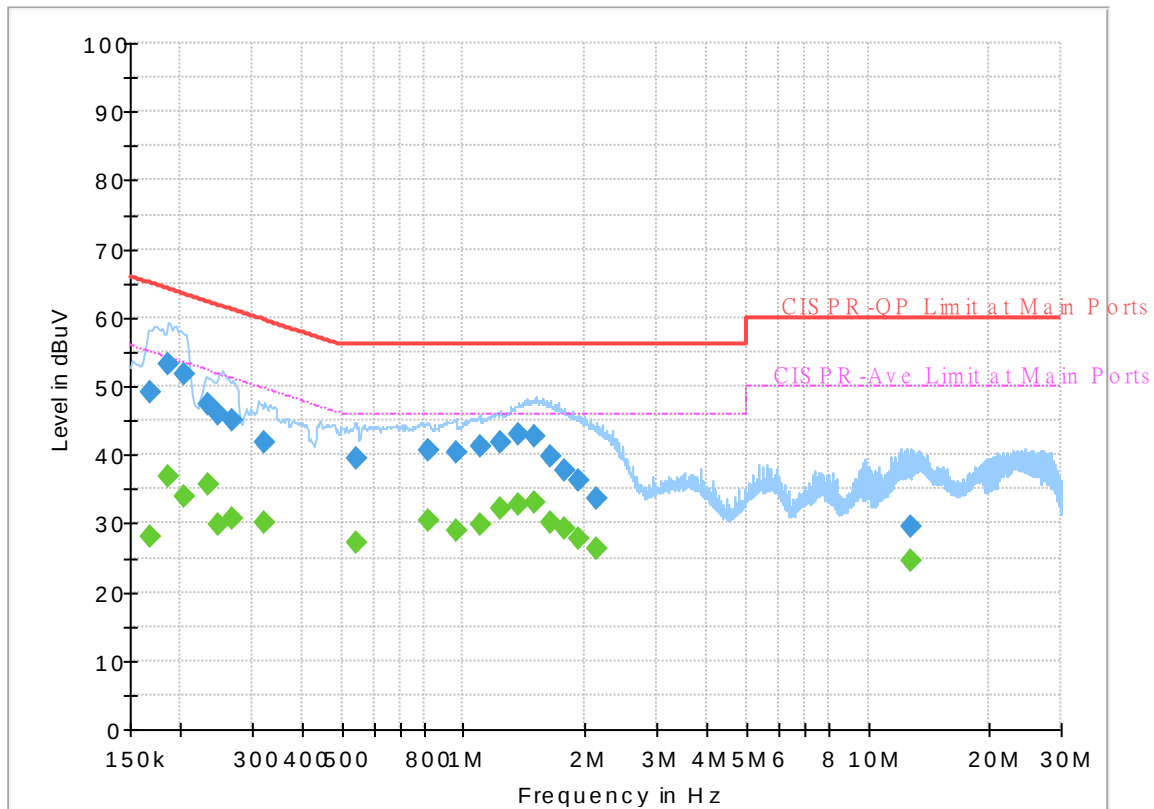
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.154590	---	34.56	55.75	21.19	N	OFF	19.5
0.154590	45.54	---	65.75	20.21	N	OFF	19.5
0.232620	---	30.68	52.36	21.68	N	OFF	19.5
0.232620	40.02	---	62.36	22.34	N	OFF	19.5
0.300660	---	25.56	50.23	24.67	N	OFF	19.5
0.300660	34.94	---	60.23	25.29	N	OFF	19.5
0.371310	---	26.99	48.47	21.48	N	OFF	19.5
0.371310	36.07	---	58.47	22.40	N	OFF	19.5
0.468600	---	26.05	46.54	20.49	N	OFF	19.5
0.468600	35.62	---	56.54	20.92	N	OFF	19.5
1.586940	---	33.18	46.00	12.82	N	OFF	19.6
1.586940	36.68	---	56.00	19.32	N	OFF	19.6
15.486000	---	28.47	50.00	21.53	N	OFF	19.9
15.486000	33.95	---	60.00	26.05	N	OFF	19.9

EUT Information

Report NO : 042237-02
 Test Mode : Mode 7
 Test Voltage : Power From System
 Phase : Line

Full Spectrum



Final_Result

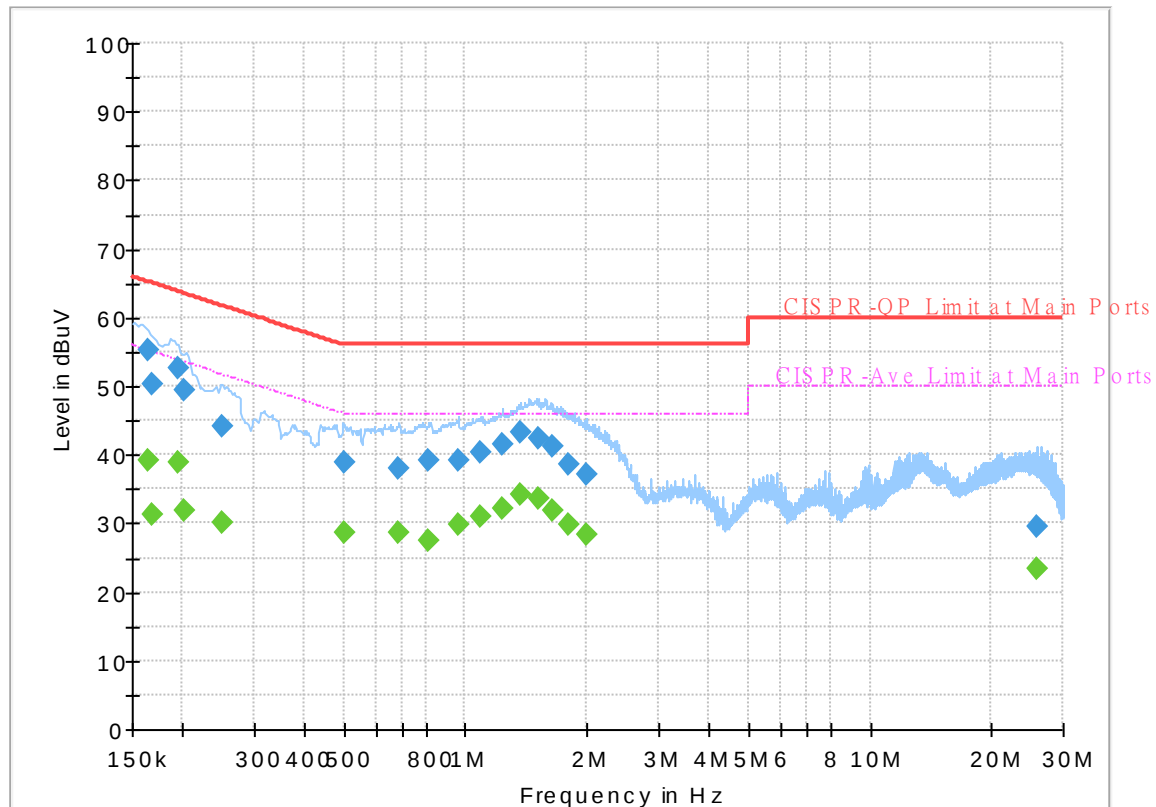
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.167730	---	28.12	55.07	26.95	L1	OFF	19.5
0.167730	49.25	---	65.07	15.82	L1	OFF	19.5
0.186630	---	36.84	54.19	17.35	L1	OFF	19.5
0.186630	53.22	---	64.19	10.97	L1	OFF	19.5
0.204000	---	34.01	53.45	19.44	L1	OFF	19.5
0.204000	51.74	---	63.45	11.71	L1	OFF	19.5
0.233880	---	35.80	52.31	16.51	L1	OFF	19.5
0.233880	47.39	---	62.31	14.92	L1	OFF	19.5
0.249000	---	29.82	51.79	21.97	L1	OFF	19.5
0.249000	45.86	---	61.79	15.93	L1	OFF	19.5
0.268170	---	30.77	51.17	20.40	L1	OFF	19.5
0.268170	45.06	---	61.17	16.11	L1	OFF	19.5
0.323520	---	30.03	49.62	19.59	L1	OFF	19.5
0.323520	41.87	---	59.62	17.75	L1	OFF	19.5
0.543750	---	27.22	46.00	18.78	L1	OFF	19.5
0.543750	39.34	---	56.00	16.66	L1	OFF	19.5
0.815100	---	30.35	46.00	15.65	L1	OFF	19.5
0.815100	40.55	---	56.00	15.45	L1	OFF	19.5
0.962250	---	28.97	46.00	17.03	L1	OFF	19.5
0.962250	40.39	---	56.00	15.61	L1	OFF	19.5
1.101750	---	29.82	46.00	16.18	L1	OFF	19.5

1.101750	41.08	---	56.00	14.92	L1	OFF	19.5
1.237110	---	32.21	46.00	13.79	L1	OFF	19.6
1.237110	41.81	---	56.00	14.19	L1	OFF	19.6
1.362750	---	32.88	46.00	13.12	L1	OFF	19.6
1.362750	43.00	---	56.00	13.00	L1	OFF	19.6
1.502250	---	33.15	46.00	12.85	L1	OFF	19.6
1.502250	42.62	---	56.00	13.38	L1	OFF	19.6
1.650750	---	30.25	46.00	15.75	L1	OFF	19.6
1.650750	39.69	---	56.00	16.31	L1	OFF	19.6
1.779000	---	29.31	46.00	16.69	L1	OFF	19.6
1.779000	37.58	---	56.00	18.42	L1	OFF	19.6
1.916250	---	27.89	46.00	18.11	L1	OFF	19.6
1.916250	36.37	---	56.00	19.63	L1	OFF	19.6
2.130000	---	26.21	46.00	19.79	L1	OFF	19.6
2.130000	33.66	---	56.00	22.34	L1	OFF	19.6
12.826410	---	24.45	50.00	25.55	L1	OFF	19.8
12.826410	29.51	---	60.00	30.49	L1	OFF	19.8

EUT Information

Report NO : 042237-02
 Test Mode : Mode 7
 Test Voltage : Power From System
 Phase : Neutral

Full Spectrum



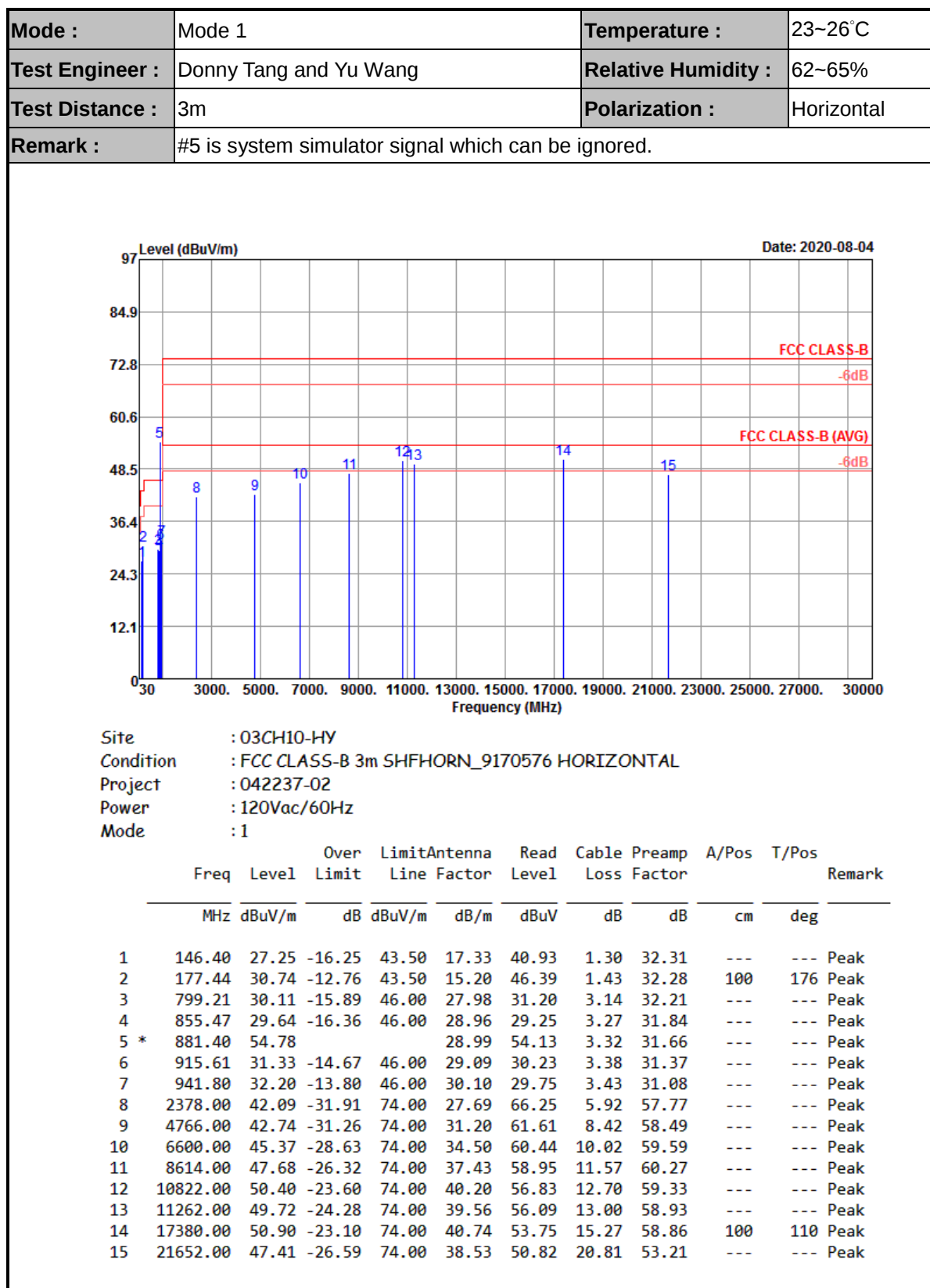
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.163500	---	39.18	55.28	16.10	N	OFF	19.5
0.163500	55.25	---	65.28	10.03	N	OFF	19.5
0.168000	---	31.19	55.06	23.87	N	OFF	19.5
0.168000	50.16	---	65.06	14.90	N	OFF	19.5
0.195000	---	39.01	53.82	14.81	N	OFF	19.5
0.195000	52.56	---	63.82	11.26	N	OFF	19.5
0.201480	---	31.81	53.55	21.74	N	OFF	19.5
0.201480	49.37	---	63.55	14.18	N	OFF	19.5
0.250710	---	29.99	51.73	21.74	N	OFF	19.5
0.250710	44.03	---	61.73	17.70	N	OFF	19.5
0.501810	---	28.79	46.00	17.21	N	OFF	19.5
0.501810	38.78	---	56.00	17.22	N	OFF	19.5
0.681000	---	28.71	46.00	17.29	N	OFF	19.5
0.681000	37.92	---	56.00	18.08	N	OFF	19.5
0.812040	---	27.62	46.00	18.38	N	OFF	19.6
0.812040	39.20	---	56.00	16.80	N	OFF	19.6
0.955500	---	29.81	46.00	16.19	N	OFF	19.6
0.955500	39.27	---	56.00	16.73	N	OFF	19.6
1.092750	---	31.14	46.00	14.86	N	OFF	19.6
1.092750	40.41	---	56.00	15.59	N	OFF	19.6
1.230000	---	32.05	46.00	13.95	N	OFF	19.6

1.230000	41.60	---	56.00	14.40	N	OFF	19.6
1.367250	---	34.09	46.00	11.91	N	OFF	19.6
1.367250	43.38	---	56.00	12.62	N	OFF	19.6
1.513500	---	33.58	46.00	12.42	N	OFF	19.6
1.513500	42.51	---	56.00	13.49	N	OFF	19.6
1.641750	---	31.74	46.00	14.26	N	OFF	19.6
1.641750	41.10	---	56.00	14.90	N	OFF	19.6
1.804110	---	29.95	46.00	16.05	N	OFF	19.6
1.804110	38.45	---	56.00	17.55	N	OFF	19.6
1.988790	---	28.47	46.00	17.53	N	OFF	19.6
1.988790	37.19	---	56.00	18.81	N	OFF	19.6
25.935000	---	23.49	50.00	26.51	N	OFF	20.0
25.935000	29.40	---	60.00	30.60	N	OFF	20.0

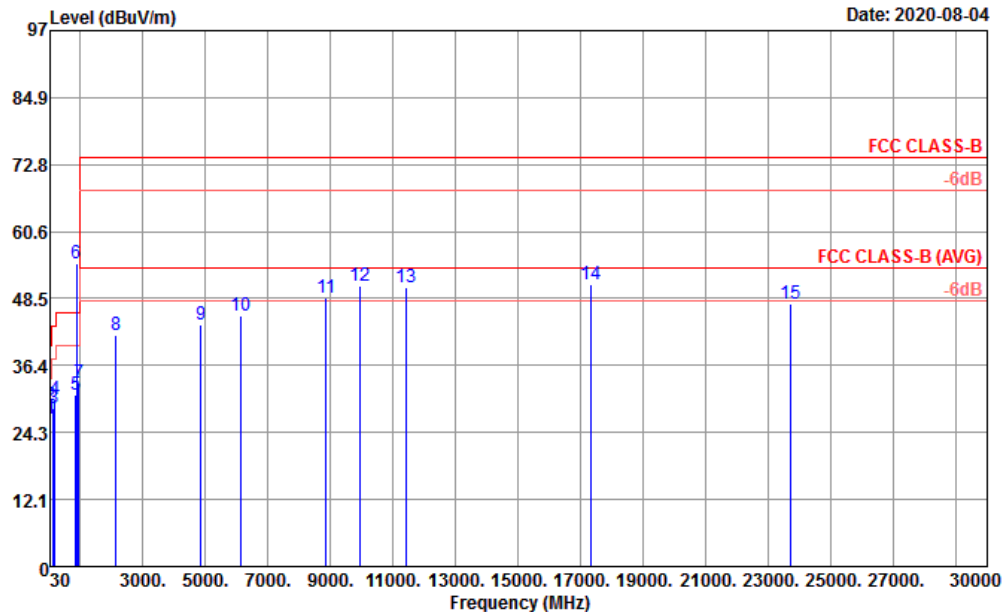


Appendix B. Radiated Emission Test Result





Mode :	Mode 1	Temperature :	23~26°C
Test Engineer :	Donny Tang and Yu Wang	Relative Humidity :	62~65%
Test Distance :	3m	Polarization :	Vertical
Remark :	#6 s system simulator signal which can be ignored.		

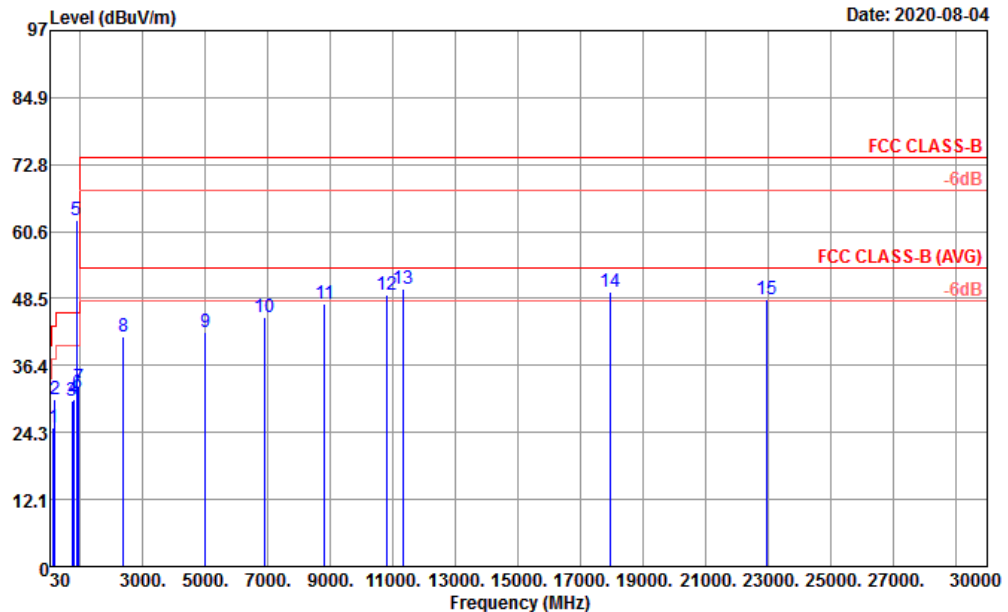


Site : 03CH10-HY
Condition : FCC CLASS-B 3m SHFHORN_9170576 VERTICAL
Project : 042237-02
Power : 120Vac/60Hz
Mode : 1

	Freq	Level	Over Limit	Limit	Antenna Line Factor	Read Level	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dBuV	dB	dB	cm	deg	
1	32.91	26.65	-13.35	40.00	22.88	35.65	0.60	32.48	---	---	Peak
2	45.52	29.12	-10.88	40.00	16.74	44.13	0.72	32.47	100	188	Peak
3	146.40	28.58	-14.92	43.50	17.33	42.26	1.30	32.31	---	---	Peak
4	175.50	30.25	-13.25	43.50	15.32	45.79	1.42	32.28	---	---	Peak
5	847.71	31.17	-14.83	46.00	28.90	30.91	3.25	31.89	---	---	Peak
6 *	881.40	54.85			28.99	54.20	3.32	31.66	---	---	Peak
7	954.41	33.25	-12.75	46.00	30.82	29.91	3.46	30.94	---	---	Peak
8	2136.00	41.89	-32.11	74.00	27.40	66.73	5.54	57.78	---	---	Peak
9	4852.00	43.90	-30.10	74.00	31.20	62.65	8.54	58.49	---	---	Peak
10	6136.00	45.49	-28.51	74.00	32.84	61.83	9.92	59.10	---	---	Peak
11	8860.00	48.73	-25.27	74.00	37.98	59.81	11.61	60.67	---	---	Peak
12	9958.00	50.69	-23.31	74.00	39.18	59.71	12.18	60.38	---	---	Peak
13	11396.00	50.59	-23.41	74.00	39.79	56.64	13.09	58.93	---	---	Peak
14	17320.00	50.96	-23.04	74.00	40.26	54.32	15.26	58.88	100	104	Peak
15	23720.00	47.59	-26.41	74.00	38.90	50.41	21.11	53.29	---	---	Peak



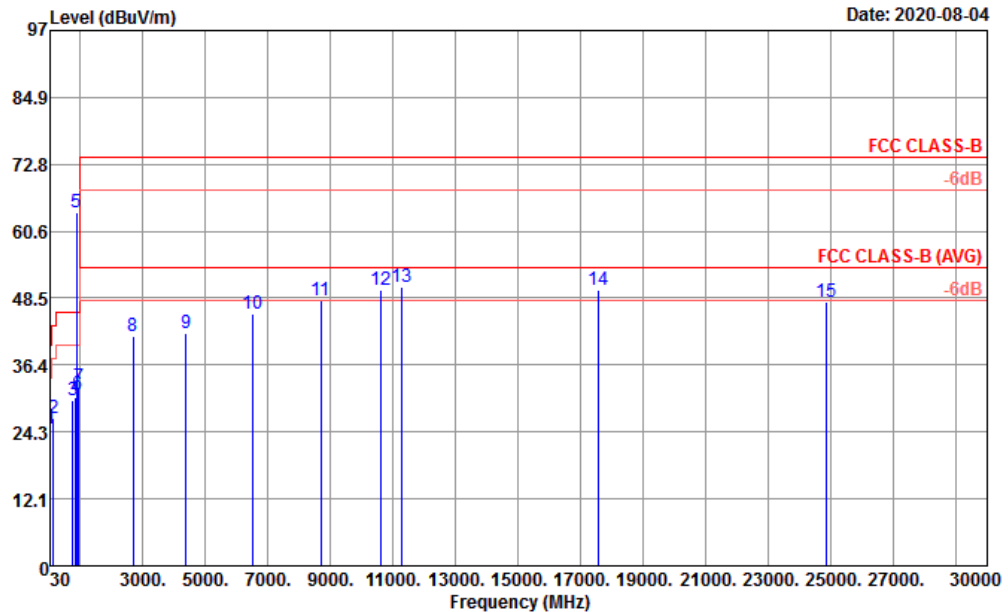
Mode :	Mode 2	Temperature :	23~26°C
Test Engineer :	Donny Tang and Yu Wang	Relative Humidity :	62~65%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#5 is system simulator signal which can be ignored.		



Site : 03CH10-HY
Condition : FCC CLASS-B 3m SHFHORN_9170576 HORIZONTAL
Project : 042237-02
Power : 120Vac/60Hz
Mode : 2

	Freq	Level	Over	Limit	Antenna	Read	Cable	Preamp	A/Pos	T/Pos	Remark
	MHz	dBuV/m	Limit	Line	Factor	Level	Loss	Factor	cm	deg	
1	142.52	25.04	-18.46	43.50	17.42	38.66	1.28	32.32	---	---	Peak
2	175.50	30.18	-13.32	43.50	15.32	45.72	1.42	32.28	100	123	Peak
3	727.43	30.00	-16.00	46.00	27.35	32.01	2.98	32.34	---	---	Peak
4	769.14	30.23	-15.77	46.00	28.05	31.38	3.07	32.27	---	---	Peak
5 *	881.60	62.77			28.98	62.13	3.32	31.66	---	---	Peak
6	923.37	31.24	-14.76	46.00	29.25	29.87	3.40	31.28	---	---	Peak
7	956.35	32.43	-13.57	46.00	30.75	29.14	3.46	30.92	---	---	Peak
8	2382.00	41.69	-32.31	74.00	27.67	65.87	5.92	57.77	---	---	Peak
9	4994.00	42.41	-31.59	74.00	31.38	60.79	8.74	58.50	---	---	Peak
10	6902.00	45.11	-28.89	74.00	35.10	59.47	10.13	59.59	---	---	Peak
11	8812.00	47.67	-26.33	74.00	38.00	58.62	11.65	60.60	---	---	Peak
12	10778.00	49.20	-24.80	74.00	40.09	55.87	12.67	59.43	---	---	Peak
13	11330.00	50.28	-23.72	74.00	39.66	56.51	13.04	58.93	100	166	Peak
14	17935.00	49.67	-24.33	74.00	46.85	46.79	15.36	59.33	---	---	Peak
15	22928.00	48.26	-25.74	74.00	38.94	51.09	21.13	53.36	---	---	Peak

Mode :	Mode 2	Temperature :	23~26°C
Test Engineer :	Donny Tang and Yu Wang	Relative Humidity :	62~65%
Test Distance :	3m	Polarization :	Vertical
Remark :	#5 is system simulator signal which can be ignored.		

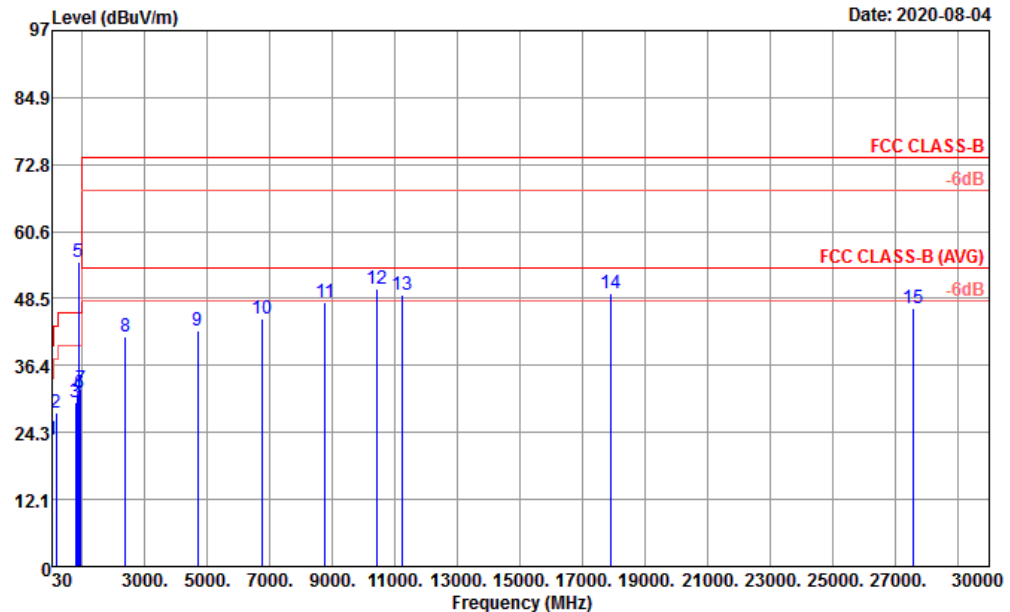


Site : 03CH10-HY
 Condition : FCC CLASS-B 3m SHFHORN_9170576 VERTICAL
 Project : 042237-02
 Power : 120Vac/60Hz
 Mode : 2

	Freq	Level	Over	Limit	Antenna	Read	Cable	Preamp	A/Pos	T/Pos	Remark
	MHz	dBuV/m	Limit	Line	Factor	Level	Loss	Factor	cm	deg	
1	30.97	24.85	-15.15	40.00	23.74	33.00	0.59	32.48	---	---	Peak
2	143.49	26.66	-16.84	43.50	17.40	40.30	1.28	32.32	---	---	Peak
3	764.29	29.98	-16.02	46.00	27.99	31.21	3.05	32.27	---	---	Peak
4	850.62	30.50	-15.50	46.00	29.01	30.10	3.26	31.87	---	---	Peak
5 *	881.60	63.92			28.98	63.28	3.32	31.66	---	---	Peak
6	918.52	30.97	-15.03	46.00	29.16	29.76	3.39	31.34	---	---	Peak
7	955.38	32.35	-13.65	46.00	30.81	29.01	3.46	30.93	100	165	Peak
8	2688.00	41.73	-32.27	74.00	27.78	65.54	6.30	57.89	---	---	Peak
9	4376.00	42.24	-31.76	74.00	30.20	62.62	7.90	58.48	---	---	Peak
10	6518.00	45.64	-28.36	74.00	34.27	60.98	9.98	59.59	---	---	Peak
11	8686.00	48.21	-25.79	74.00	37.57	59.43	11.60	60.39	---	---	Peak
12	10602.00	49.90	-24.10	74.00	39.70	57.46	12.55	59.81	---	---	Peak
13	11278.00	50.55	-23.45	74.00	39.58	56.89	13.01	58.93	100	145	Peak
14	17570.00	49.94	-24.06	74.00	41.96	51.57	15.30	58.89	---	---	Peak
15	24842.00	47.78	-26.22	74.00	39.74	49.74	21.24	53.40	---	---	Peak



Mode :	Mode 3	Temperature :	23~26°C
Test Engineer :	Donny Tang and Yu Wang	Relative Humidity :	62~65%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#5 is system simulator signal which can be ignored.		

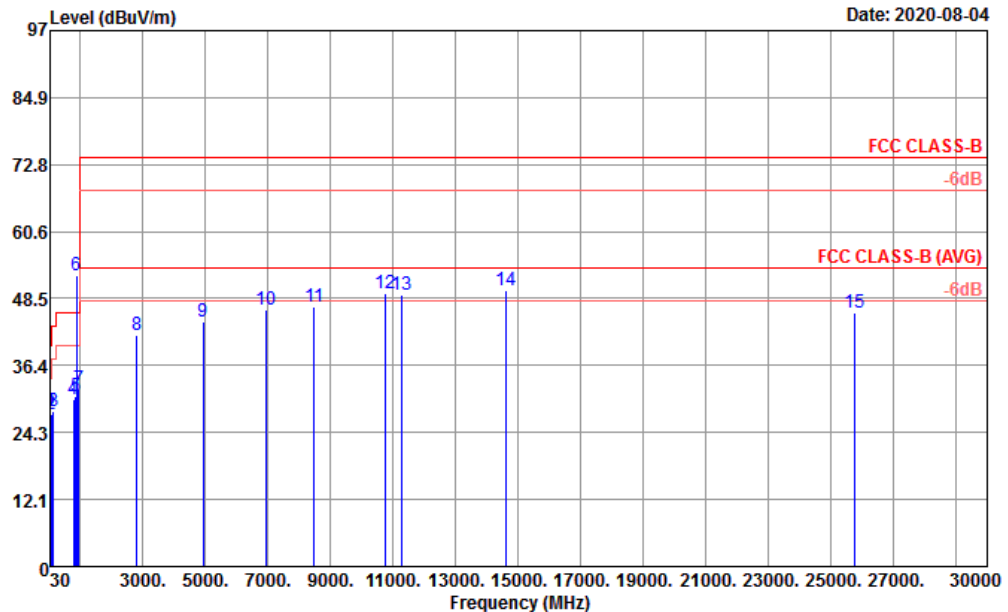


Site : 03CH10-HY
 Condition : FCC CLASS-B 3m SHFHORN_9170576 HORIZONTAL
 Project : 042237-02
 Power : 120Vac/60Hz
 Mode : 3

	Freq	Level	Over Limit	Limit	Antenna Line Factor	Read Level	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dBuV	dB	dB	cm	deg	
1	34.85	22.84	-17.16	40.00	22.07	32.63	0.62	32.48	---	---	Peak
2	171.62	27.91	-15.59	43.50	15.57	43.23	1.40	32.29	---	---	Peak
3	774.96	29.77	-16.23	46.00	28.03	30.92	3.08	32.26	---	---	Peak
4	848.68	31.11	-14.89	46.00	28.95	30.78	3.26	31.88	---	---	Peak
5 *	871.50	55.21			29.01	54.63	3.30	31.73	---	---	Peak
6	927.25	31.26	-14.74	46.00	29.39	29.71	3.40	31.24	---	---	Peak
7	948.59	32.28	-13.72	46.00	30.62	29.22	3.45	31.01	100	172	Peak
8	2382.00	41.69	-32.31	74.00	27.67	65.87	5.92	57.77	---	---	Peak
9	4676.00	42.58	-31.42	74.00	31.20	61.54	8.32	58.48	---	---	Peak
10	6728.00	44.72	-29.28	74.00	34.44	59.90	9.97	59.59	---	---	Peak
11	8766.00	47.86	-26.14	74.00	37.80	58.94	11.64	60.52	---	---	Peak
12	10402.00	50.39	-23.61	74.00	39.70	58.35	12.42	60.08	100	161	Peak
13	11230.00	49.13	-24.87	74.00	39.53	55.57	12.97	58.94	---	---	Peak
14	17920.00	49.35	-24.65	74.00	46.44	46.86	15.36	59.31	---	---	Peak
15	27592.00	46.64	-27.36	74.00	40.32	46.21	23.26	53.61	---	---	Peak



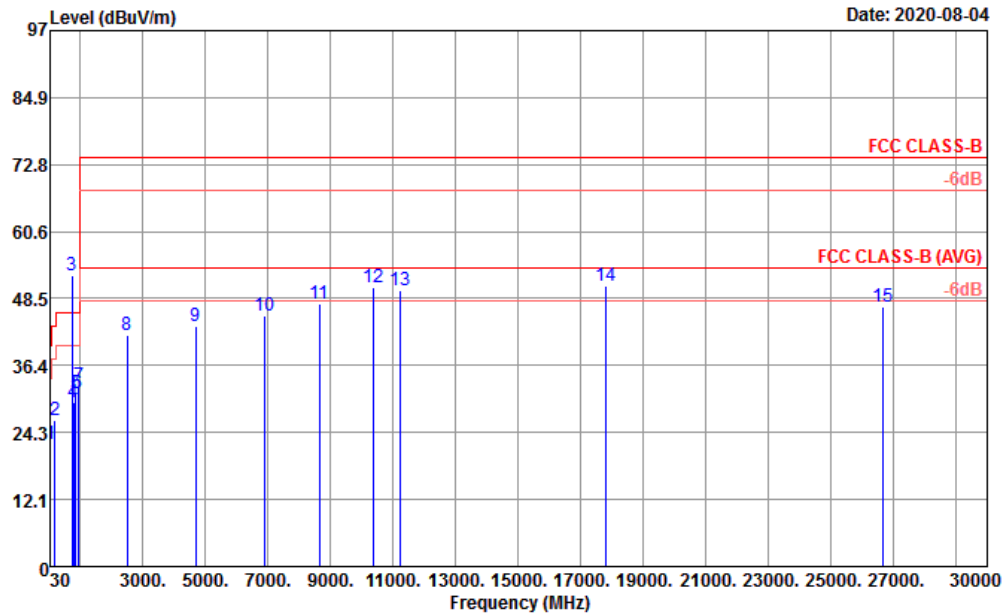
Mode :	Mode 3	Temperature :	23~26°C
Test Engineer :	Donny Tang and Yu Wang	Relative Humidity :	62~65%
Test Distance :	3m	Polarization :	Vertical
Remark :	#6 is system simulator signal which can be ignored.		



Site : 03CH10-HY
Condition : FCC CLASS-B 3m SHFHORN_9170576 VERTICAL
Project : 042237-02
Power : 120Vac/60Hz
Mode : 3

	Freq	Level	Over Limit	Limit	Antenna Line Factor	Read Level	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dBuV	dB	dB	cm	deg	
1	45.52	28.17	-11.83	40.00	16.74	43.18	0.72	32.47	100	183	Peak
2	76.56	27.69	-12.31	40.00	13.00	46.17	0.93	32.41	---	---	Peak
3	146.40	28.07	-15.43	43.50	17.33	41.75	1.30	32.31	---	---	Peak
4	773.02	30.36	-15.64	46.00	28.05	31.49	3.08	32.26	---	---	Peak
5	842.86	30.90	-15.10	46.00	28.80	30.78	3.24	31.92	---	---	Peak
6 *	871.50	52.81			29.01	52.23	3.30	31.73	---	---	Peak
7	946.65	32.17	-13.83	46.00	30.49	29.27	3.44	31.03	---	---	Peak
8	2812.00	41.91	-32.09	74.00	28.15	65.31	6.43	57.98	---	---	Peak
9	4914.00	44.28	-29.72	74.00	31.20	62.94	8.63	58.49	---	---	Peak
10	6940.00	46.51	-27.49	74.00	35.18	60.72	10.20	59.59	---	---	Peak
11	8482.00	47.13	-26.87	74.00	36.79	59.07	11.35	60.08	---	---	Peak
12	10752.00	49.51	-24.49	74.00	39.96	56.39	12.65	59.49	---	---	Peak
13	11296.00	49.18	-24.82	74.00	39.60	55.49	13.02	58.93	---	---	Peak
14	14600.00	50.04	-23.96	74.00	41.50	51.70	14.51	57.67	100	196	Peak
15	25766.00	46.06	-27.94	74.00	39.33	48.27	21.39	53.39	---	---	Peak

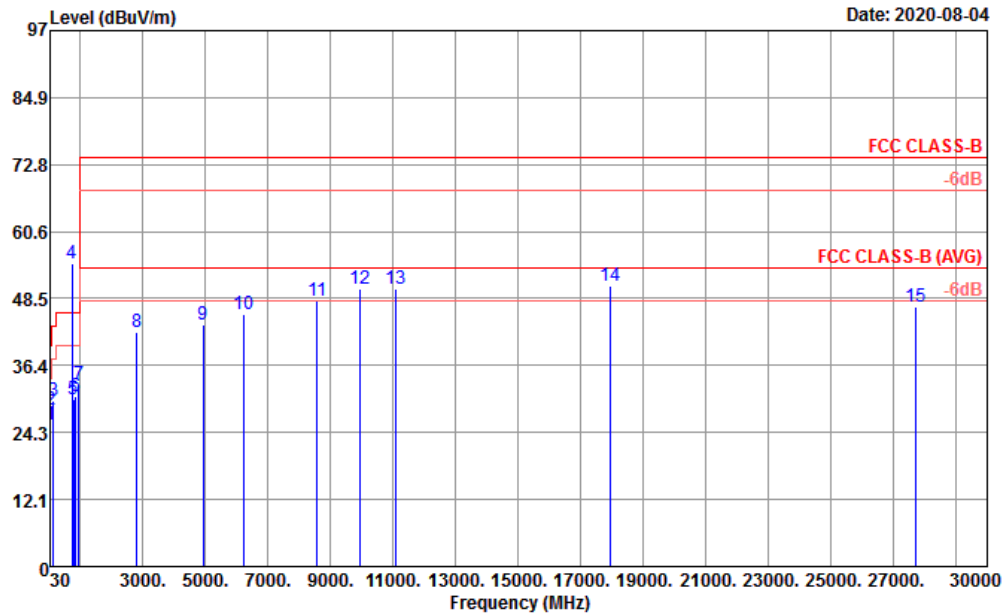
Mode :	Mode 4	Temperature :	23~26°C
Test Engineer :	Donny Tang and Yu Wang	Relative Humidity :	62~65%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#3 is system simulator signal which can be ignored.		



Site : 03CH10-HY
 Condition : FCC CLASS-B 3m SHFHORN_9170576 HORIZONTAL
 Project : 042237-02
 Power : 120Vac/60Hz
 Mode : 4

	Freq	Level	Over Limit	Limit	Antenna Line Factor	Read Level	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dBuV	dB	dB	cm	deg	
1	45.52	22.17	-17.83	40.00	16.74	37.18	0.72	32.47	---	---	Peak
2	174.53	26.56	-16.94	43.50	15.41	42.02	1.42	32.29	---	---	Peak
3 *	737.50	52.78			27.75	54.35	3.00	32.32	---	---	Peak
4	779.81	29.66	-16.34	46.00	28.06	30.76	3.09	32.25	---	---	Peak
5	846.74	31.37	-14.63	46.00	28.85	31.17	3.25	31.90	---	---	Peak
6	923.37	31.41	-14.59	46.00	29.25	30.04	3.40	31.28	---	---	Peak
7	945.68	32.70	-13.30	46.00	30.42	29.88	3.44	31.04	100	1300	Peak
8	2492.00	41.97	-32.03	74.00	27.42	66.25	6.07	57.77	---	---	Peak
9	4684.00	43.58	-30.42	74.00	31.24	62.49	8.33	58.48	---	---	Peak
10	6892.00	45.46	-28.54	74.00	35.05	59.89	10.11	59.59	---	---	Peak
11	8642.00	47.45	-26.55	74.00	37.48	58.71	11.58	60.32	---	---	Peak
12	10374.00	50.51	-23.49	74.00	39.65	58.56	12.40	60.10	---	---	Peak
13	11240.00	50.12	-23.88	74.00	39.54	56.54	12.98	58.94	---	---	Peak
14	17825.00	50.84	-23.16	74.00	44.62	50.08	15.34	59.20	100	116	Peak
15	26668.00	47.02	-26.98	74.00	40.10	47.30	22.19	53.03	---	---	Peak

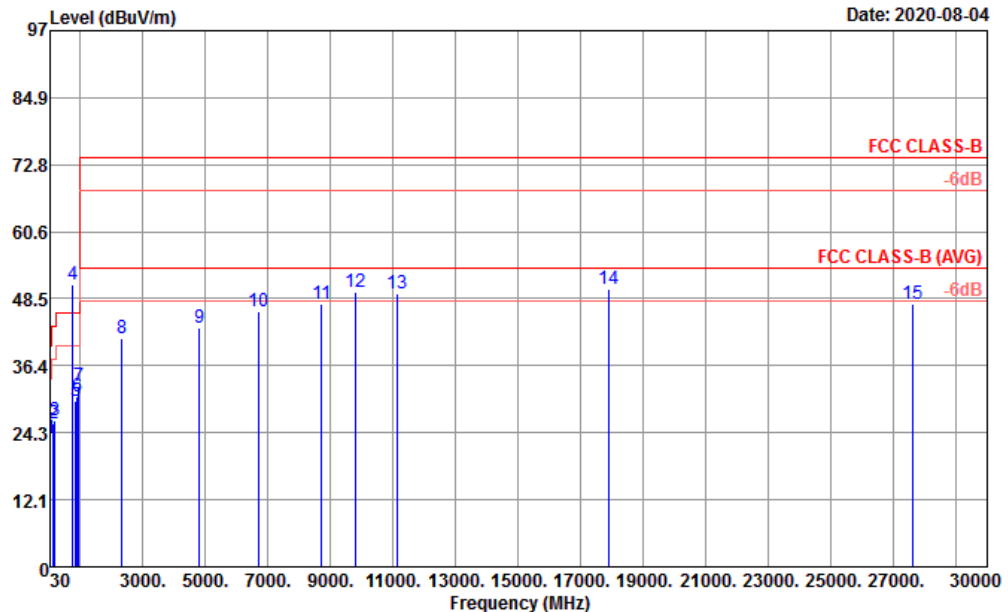
Mode :	Mode 4	Temperature :	23~26°C
Test Engineer :	Donny Tang and Yu Wang	Relative Humidity :	62~65%
Test Distance :	3m	Polarization :	Vertical
Remark :	#4 is system simulator signal which can be ignored.		



Site : 03CH10-HY
 Condition : FCC CLASS-B 3m SHFHORN_9170576 VERTICAL
 Project : 042237-02
 Power : 120Vac/60Hz
 Mode : 4

	Freq	Level	Over Limit	Limit	Antenna Line Factor	Read Level	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dBuV	dB	dB	cm	deg	
1	32.91	25.78	-14.22	40.00	22.88	34.78	0.60	32.48	---	---	Peak
2	46.49	28.46	-11.54	40.00	16.14	44.07	0.72	32.47	100	154	Peak
3	145.43	30.06	-13.44	43.50	17.34	43.74	1.29	32.31	---	---	Peak
4 *	737.50	54.97			27.75	56.54	3.00	32.32	---	---	Peak
5	788.54	30.28	-15.72	46.00	28.07	31.33	3.11	32.23	---	---	Peak
6	861.29	30.82	-15.18	46.00	29.11	30.23	3.28	31.80	---	---	Peak
7	939.86	32.90	-13.10	46.00	29.95	30.62	3.43	31.10	---	---	Peak
8	2794.00	42.35	-31.65	74.00	28.08	65.82	6.41	57.96	---	---	Peak
9	4928.00	43.76	-30.24	74.00	31.20	62.41	8.65	58.50	---	---	Peak
10	6206.00	45.72	-28.28	74.00	33.02	61.85	10.05	59.20	---	---	Peak
11	8580.00	48.10	-25.90	74.00	37.32	59.48	11.52	60.22	---	---	Peak
12	9932.00	50.22	-23.78	74.00	39.24	59.22	12.19	60.43	---	---	Peak
13	11092.00	50.38	-23.62	74.00	39.83	56.61	12.88	58.94	---	---	Peak
14	17960.00	50.77	-23.23	74.00	47.52	47.25	15.36	59.36	100	123	Peak
15	27702.00	47.08	-26.92	74.00	40.34	46.63	23.39	53.74	---	---	Peak

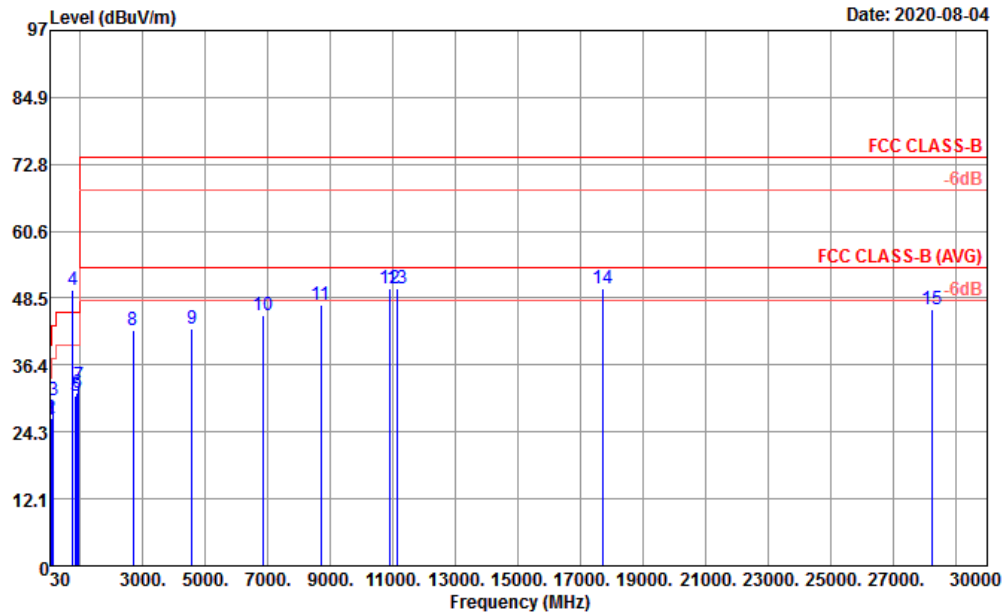
Mode :	Mode 5	Temperature :	23~26°C
Test Engineer :	Donny Tang and Yu Wang	Relative Humidity :	62~65%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#4 is system simulator signal which can be ignored.		



Site : 03CH10-HY
 Condition : FCC CLASS-B 3m SHFHORN_9170576 HORIZONTAL
 Project : 042237-02
 Power : 120Vac/60Hz
 Mode : 5

	Freq	Level	Over Limit	Limit	Antenna Line Factor	Read Level	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dBuV	dB	dB	cm	deg	
1	33.88	23.30	-16.70	40.00	22.72	32.45	0.61	32.48	---	---	Peak
2	144.46	25.86	-17.64	43.50	17.34	39.55	1.29	32.32	---	---	Peak
3	174.53	26.47	-17.03	43.50	15.41	41.93	1.42	32.29	---	---	Peak
4 *	751.00	50.94			28.02	52.20	3.02	32.30	---	---	Peak
5	841.89	29.91	-16.09	46.00	28.82	29.78	3.24	31.93	---	---	Peak
6	899.12	30.80	-15.20	46.00	28.86	30.14	3.35	31.55	---	---	Peak
7	951.50	32.75	-13.25	46.00	30.75	29.52	3.45	30.97	100	135	Peak
8	2340.00	41.44	-32.56	74.00	27.80	65.56	5.86	57.78	---	---	Peak
9	4816.00	43.10	-30.90	74.00	31.20	61.91	8.48	58.49	---	---	Peak
10	6690.00	46.09	-27.91	74.00	34.48	61.22	9.98	59.59	---	---	Peak
11	8722.00	47.55	-26.45	74.00	37.64	58.74	11.62	60.45	---	---	Peak
12	9784.00	49.67	-24.33	74.00	39.10	58.95	12.30	60.68	---	---	Peak
13	11152.00	49.38	-24.62	74.00	39.64	55.76	12.92	58.94	---	---	Peak
14	17900.00	50.19	-23.81	74.00	45.90	48.23	15.35	59.29	100	171	Peak
15	27614.00	47.66	-26.34	74.00	40.32	47.23	23.29	53.64	---	---	Peak

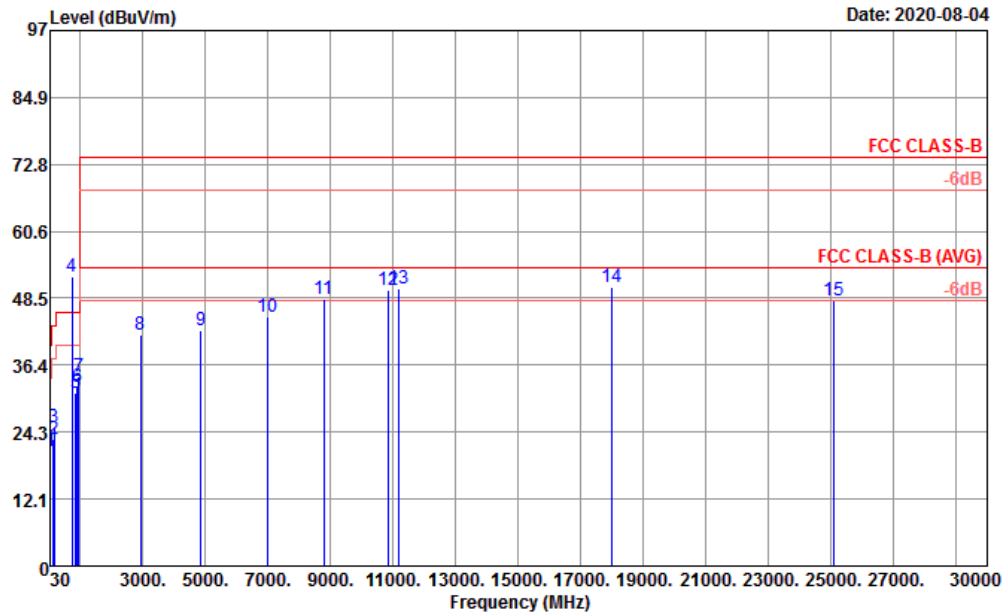
Mode :	Mode 5	Temperature :	23~26°C
Test Engineer :	Donny Tang and Yu Wang	Relative Humidity :	62~65%
Test Distance :	3m	Polarization :	Vertical
Remark :	#4 is system simulator signal which can be ignored.		



Site : 03CH10-HY
 Condition : FCC CLASS-B 3m SHFHORN_9170576 VERTICAL
 Project : 042237-02
 Power : 120Vac/60Hz
 Mode : 5

	Freq	Level	Over	Limit	Antenna	Read	Cable	Preamp	A/Pos	T/Pos	Remark
	MHz	dBuV/m	Limit	Line	Factor	Level	Loss	Factor	cm	deg	
1	44.55	26.48	-13.52	40.00	17.18	41.06	0.71	32.47	---	---	Peak
2	76.56	26.65	-13.35	40.00	13.00	45.13	0.93	32.41	---	---	Peak
3	145.43	29.97	-13.53	43.50	17.34	43.65	1.29	32.31	---	---	Peak
4 *	751.00	49.95			28.02	51.21	3.02	32.30	---	---	Peak
5	860.32	30.75	-15.25	46.00	29.08	30.20	3.28	31.81	---	---	Peak
6	894.27	31.42	-14.58	46.00	28.91	30.75	3.34	31.58	---	---	Peak
7	942.77	32.72	-13.28	46.00	30.19	30.16	3.44	31.07	100	128	Peak
8	2676.00	42.68	-31.32	74.00	27.75	66.53	6.29	57.89	---	---	Peak
9	4580.00	42.86	-31.14	74.00	30.86	62.26	8.21	58.47	---	---	Peak
10	6856.00	45.38	-28.62	74.00	34.84	60.09	10.04	59.59	---	---	Peak
11	8690.00	47.17	-26.83	74.00	37.58	58.38	11.61	60.40	---	---	Peak
12	10870.00	50.17	-23.83	74.00	40.20	56.47	12.73	59.23	---	---	Peak
13	11130.00	50.22	-23.78	74.00	39.71	56.54	12.91	58.94	---	---	Peak
14	17720.00	50.33	-23.67	74.00	43.24	50.83	15.33	59.07	100	167	Peak
15	28252.00	46.42	-27.58	74.00	40.35	45.96	23.85	54.20	---	---	Peak

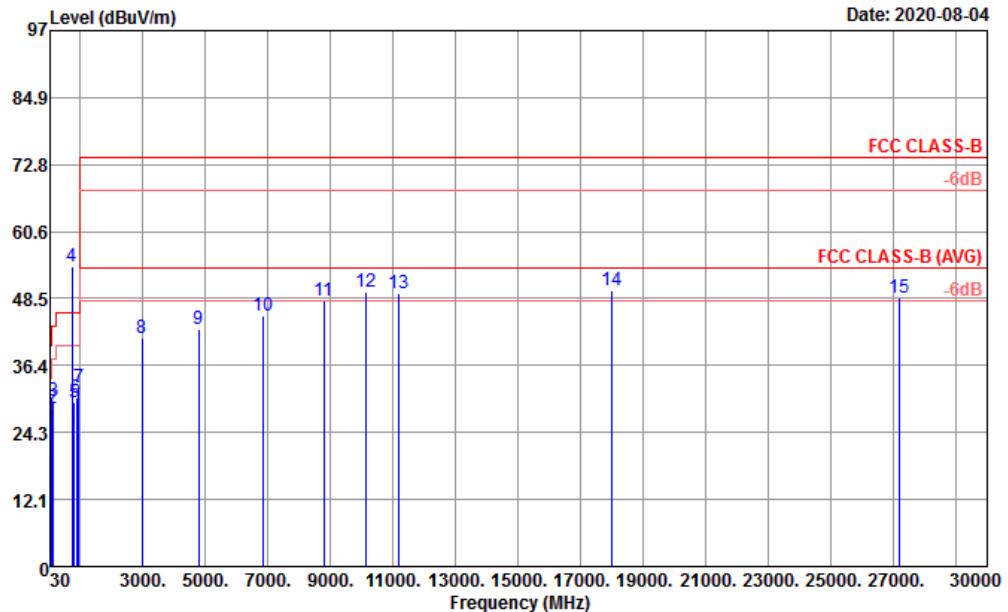
Mode :	Mode 6	Temperature :	23~26°C
Test Engineer :	Donny Tang and Yu Wang	Relative Humidity :	62~65%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#4 is system simulator signal which can be ignored.		



Site : 03CH10-HY
 Condition : FCC CLASS-B 3m SHFHORN_9170576 HORIZONTAL
 Project : 042237-02
 Power : 120Vav/60Hz
 Mode : 6

	Freq	Level	Over Limit	Limit	Antenna Line Factor	Read Level	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dBuV	dB	dB	cm	deg	
1	31.94	20.82	-19.18	40.00	23.06	29.64	0.60	32.48	---	---	Peak
2	145.43	22.90	-20.60	43.50	17.34	36.58	1.29	32.31	---	---	Peak
3	172.59	25.02	-18.48	43.50	15.52	40.38	1.41	32.29	---	---	Peak
4 *	740.00	52.35			27.91	53.76	3.00	32.32	---	---	Peak
5	845.77	31.21	-14.79	46.00	28.80	31.06	3.25	31.90	---	---	Peak
6	905.91	32.40	-13.60	46.00	29.05	31.46	3.36	31.47	---	---	Peak
7	951.50	34.42	-11.58	46.00	30.75	31.19	3.45	30.97	100	158	Peak
8	2924.00	41.91	-32.09	74.00	28.45	64.96	6.55	58.05	---	---	Peak
9	4850.00	42.58	-31.42	74.00	31.20	61.34	8.53	58.49	---	---	Peak
10	6980.00	45.00	-29.00	74.00	35.32	59.00	10.27	59.59	---	---	Peak
11	8796.00	48.39	-25.61	74.00	37.98	59.32	11.66	60.57	---	---	Peak
12	10848.00	50.10	-23.90	74.00	40.20	56.46	12.72	59.28	---	---	Peak
13	11176.00	50.21	-23.79	74.00	39.57	56.64	12.94	58.94	---	---	Peak
14	17970.00	50.60	-23.40	74.00	47.79	46.81	15.37	59.37	100	140	Peak
15	25084.00	48.04	-25.96	74.00	39.77	49.95	21.28	53.42	---	---	Peak

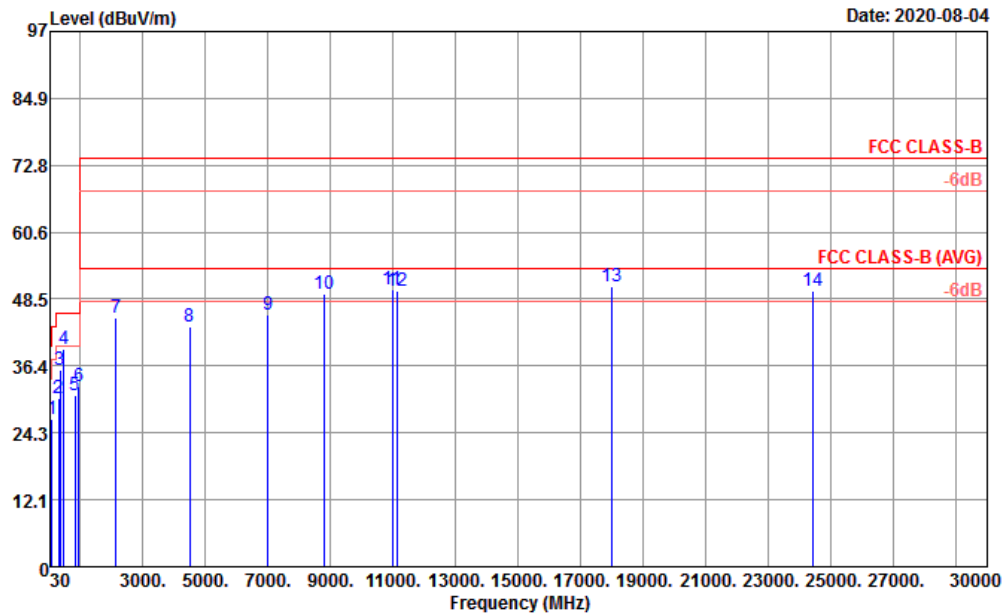
Mode :	Mode 6	Temperature :	23~26°C
Test Engineer :	Donny Tang and Yu Wang	Relative Humidity :	62~65%
Test Distance :	3m	Polarization :	Vertical
Remark :	#4 is system simulator signal which can be ignored.		



Site : 03CH10-HY
 Condition : FCC CLASS-B 3m SHFHORN_9170576 VERTICAL
 Project : 042237-02
 Power : 120Vav/60Hz
 Mode : 6

	Freq	Level	Over	Limit	Antenna	Read	Cable	Preamp	A/Pos	T/Pos	Remark
	MHz	dBuV/m	Limit	dB	Line Factor	Level	Loss	Factor	cm	deg	
1	42.61	27.02	-12.98	40.00	18.07	40.73	0.70	32.48	---	---	Peak
2	78.50	28.62	-11.38	40.00	13.33	46.77	0.93	32.41	100	138	Peak
3	145.43	30.04	-13.46	43.50	17.34	43.72	1.29	32.31	---	---	Peak
4 *	740.00	54.19			27.91	55.60	3.00	32.32	---	---	Peak
5	801.15	29.78	-16.22	46.00	27.92	30.92	3.14	32.20	---	---	Peak
6	864.20	30.64	-15.36	46.00	29.21	29.92	3.29	31.78	---	---	Peak
7	949.56	32.38	-13.62	46.00	30.68	29.24	3.45	30.99	---	---	Peak
8	2976.00	41.22	-32.78	74.00	28.40	64.30	6.60	58.08	---	---	Peak
9	4790.00	42.96	-31.04	74.00	31.20	61.80	8.45	58.49	---	---	Peak
10	6844.00	45.26	-28.74	74.00	34.76	60.07	10.02	59.59	---	---	Peak
11	8782.00	48.15	-25.85	74.00	37.89	59.16	11.65	60.55	---	---	Peak
12	10126.00	49.66	-24.34	74.00	39.05	58.62	12.23	60.24	---	---	Peak
13	11196.00	49.57	-24.43	74.00	39.51	56.05	12.95	58.94	---	---	Peak
14	17970.00	49.87	-24.13	74.00	47.79	46.08	15.37	59.37	100	188	Peak
15	27196.00	48.52	-25.48	74.00	40.18	48.34	22.80	53.26	---	---	Peak

Mode :	Mode 7	Temperature :	23~26°C
Test Engineer :	Donny Tang and Yu Wang	Relative Humidity :	62~65%
Test Distance :	3m	Polarization :	Horizontal

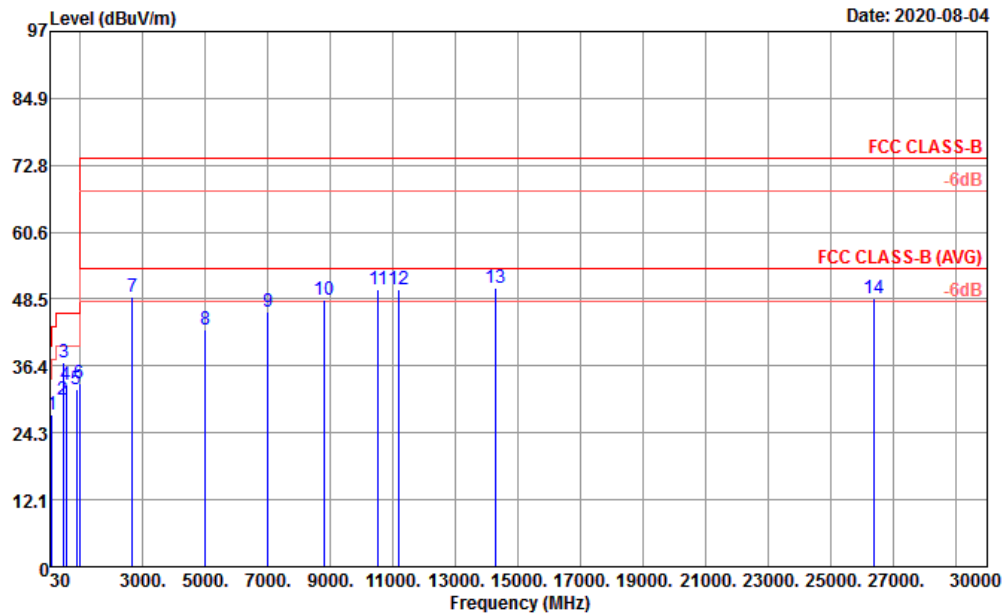


Site : 03CH10-HY
 Condition : FCC CLASS-B 3m SHFHORN_9170576 HORIZONTAL
 Project : 042237-02
 Power : From System
 Mode : 7

	Freq	Level	Over Limit	Limit	Antenna Line Factor	Read Level	Cable Loss	Preamplifier Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dBuV	dB	dB	cm	deg	
1	81.41	26.68	-13.32	40.00	13.65	44.48	0.95	32.40	---	---	Peak
2	303.54	30.66	-15.34	46.00	19.35	41.58	1.89	32.16	---	---	Peak
3	361.74	35.56	-10.44	46.00	20.76	44.96	2.08	32.24	---	---	Peak
4	480.08	39.43	-6.57	46.00	23.71	45.71	2.40	32.39	100	157	Peak
5	839.95	31.10	-14.90	46.00	28.86	30.94	3.24	31.94	---	---	Peak
6	957.32	32.59	-13.41	46.00	30.70	29.34	3.46	30.91	---	---	Peak
7	2130.00	45.08	-28.92	74.00	27.32	70.01	5.53	57.78	---	---	Peak
8	4504.00	43.40	-30.60	74.00	30.62	63.17	8.08	58.47	---	---	Peak
9	6988.00	45.77	-28.23	74.00	35.35	59.72	10.29	59.59	---	---	Peak
10	8794.00	49.34	-24.66	74.00	37.96	60.29	11.66	60.57	---	---	Peak
11	10988.00	50.20	-23.80	74.00	40.20	56.17	12.81	58.98	---	---	Peak
12	11144.00	50.03	-23.97	74.00	39.67	56.38	12.92	58.94	---	---	Peak
13	17975.00	50.77	-23.23	74.00	47.92	46.86	15.37	59.38	100	114	Peak
14	24446.00	49.93	-24.07	74.00	39.52	52.18	21.17	53.40	---	---	Peak



Mode :	Mode 7	Temperature :	23~26°C
Test Engineer :	Donny Tang and Yu Wang	Relative Humidity :	62~65%
Test Distance :	3m	Polarization :	Vertical



Site : 03CH10-HY
Condition : FCC CLASS-B 3m SHFHORN_9170576 VERTICAL
Project : 042237-02
Power : From System
Mode : 7

	Freq	Level	Over Limit	Limit	Antenna Line Factor	Read Level	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dBuV	dB	dB	cm	deg	
1	81.41	27.52	-12.48	40.00	13.65	45.32	0.95	32.40	---	---	Peak
2	456.80	30.27	-15.73	46.00	23.36	36.92	2.35	32.36	---	---	Peak
3	480.08	37.03	-8.97	46.00	23.71	43.31	2.40	32.39	100	197	Peak
4	531.49	33.01	-12.99	46.00	24.14	38.78	2.54	32.45	---	---	Peak
5	870.99	32.21	-13.79	46.00	29.03	31.61	3.30	31.73	---	---	Peak
6	959.26	33.13	-12.87	46.00	30.58	29.97	3.47	30.89	---	---	Peak
7	2656.00	48.88	-25.12	74.00	27.71	72.77	6.27	57.87	---	---	Peak
8	5000.00	42.94	-31.06	74.00	31.40	61.29	8.75	58.50	---	---	Peak
9	7000.00	46.24	-27.76	74.00	35.40	60.12	10.31	59.59	---	---	Peak
10	8812.00	48.39	-25.61	74.00	38.00	59.34	11.65	60.60	---	---	Peak
11	10526.00	50.25	-23.75	74.00	39.85	57.87	12.50	59.97	---	---	Peak
12	11194.00	50.32	-23.68	74.00	39.52	56.79	12.95	58.94	---	---	Peak
13	14285.00	50.53	-23.47	74.00	41.56	52.02	14.38	57.43	100	147	Peak
14	26360.00	48.58	-25.42	74.00	39.82	49.54	21.84	53.08	---	---	Peak

—THE END—