



FCC EMI TEST REPORT

FCC ID : PY7-45256F
Equipment : GSM/WCDMA/LTE/5G Phone with BT, DTS/UNII
a/b/g/n/ac/ax, GPS and NFC
Brand Name : Sony
Applicant : Sony Corporation
1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan
Manufacturer : Sony Corporation
1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan
Standard : FCC 47 CFR FCC Part 15 Subpart B Class B

The product was received on Mar. 31, 2021 and testing was started from Apr. 06, 2021 and completed on May 13, 2021. 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 333, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issued Date
FC132425	01	Initial issue of report	Apr. 23, 2021
FC132425	02	Revise test mode and test data	May 13, 2021

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 4.24 dB at 13.560 MHz
3.2	15.109	Radiated Emission	Pass	Under limit 4.04 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: Yimin Ho

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: <Chain 0>: Loop Antenna <Chain 1>: Loop Antenna/Monopole Antenna Bluetooth: Loop Antenna GPS/Glonass/Galileo/BDS: Loop Antenna NFC: Loop Antenna

Remark: The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

EUT Information List			
HW Version	SW Version	S/N	Performed Test Item
A	0.747	QV7200P17E	Conducted Emission Radiated Emission

Accessory List	
AC Adapter	Model Name : XQZ-UC1
	S/N:
	0020W51300096 (for Conducted Emission) 0020W51300024 (for Radiated Spurious Emission)
Earphone	Model Name : MH750
	S/N : N/A
Bluetooth Earphone	Model Name : SBH82D
	S/N : N/A
USB Cable	Model Name : XQZ-UB1
	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 333, 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. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. 03CH10-HY (TAF Code: 3786)
Remark	The Radiated Emission test item subcontracted to Sporton International Inc. Wensan Laboratory.

FCC designation No.: TW1093 and TW1132

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

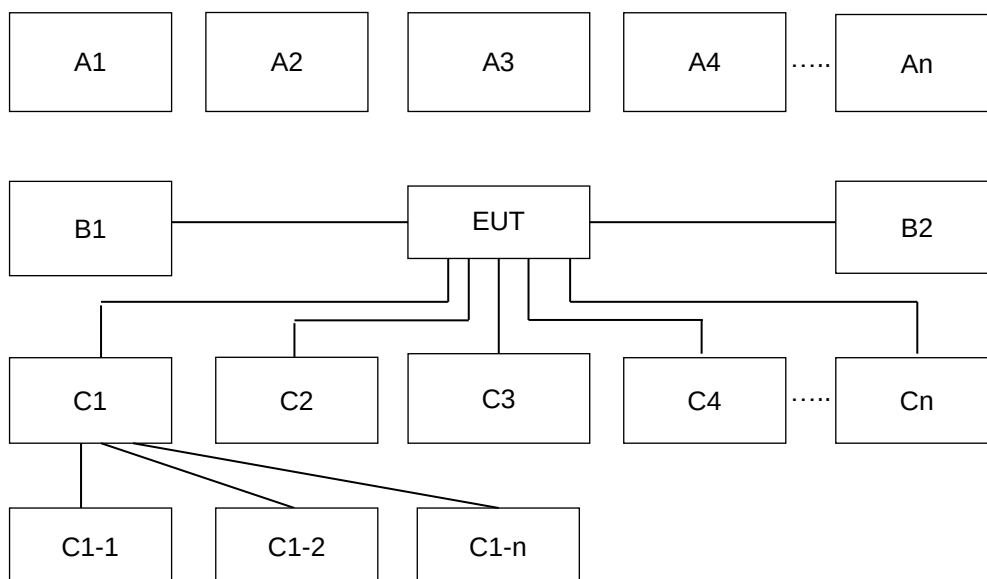
2.1. Test Mode

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).

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)
	Mode 2: WCDMA Band V (Middle Channel) Idle + Bluetooth Idle + WLAN (5GHz) Idle + Camera (Rear) + Earphone + Battery + USB Cable (Charging from Adapter)
	Mode 3: LTE Band 12 (Middle Channel) Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + MPEG 4 + Earphone + Battery + USB Cable (Charging from Adapter)
	Mode 4: LTE Band 13 (Middle Channel) Idle + Bluetooth Idle + WLAN (5GHz) Idle + NFC On + Earphone + Battery + USB Cable (Charging from Adapter)
	Mode 5: LTE Band 5 (Middle Channel) Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + GPS Rx + Earphone + Battery + USB Cable (Charging from Adapter)
	Mode 6: Flight Mode + Earphone + Battery + USB Cable (Data Link with Notebook)
Radiated Emissions	Mode 1: GSM850 (Middle Channel) Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + Camera (Front) + Earphone + Battery + USB Cable (Charging from Adapter)
	Mode 2: WCDMA Band V (Middle Channel) Idle + Bluetooth Idle + WLAN (5GHz) Idle + Camera (Rear) + Earphone + Battery + USB Cable (Charging from Adapter)
	Mode 3: LTE Band 12 (Middle Channel) Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + MPEG 4 + Earphone + Battery + USB Cable (Charging from Adapter)
	Mode 4: LTE Band 13 (Middle Channel) Idle + Bluetooth Idle + WLAN (5GHz) Idle + NFC On + Earphone + Battery + USB Cable (Charging from Adapter)
	Mode 5: LTE Band 5 (Middle Channel) Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + GPS Rx + Earphone + Battery + USB Cable (Charging from Adapter)
	Mode 6: 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); 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. 3. For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.	

2.2. Connection Diagram of Test System



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

2.3. Support Unit used in test configuration and system

Item	Equipment	Brand 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.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
4.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
5.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A
6.	Notebook	DELL	Latitude5480	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
7.	Notebook	Dell	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
8.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A

2.4. EUT Operation Test Setup

The EUT was in GSM or WCDMA or LTE idle mode during the test. 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.

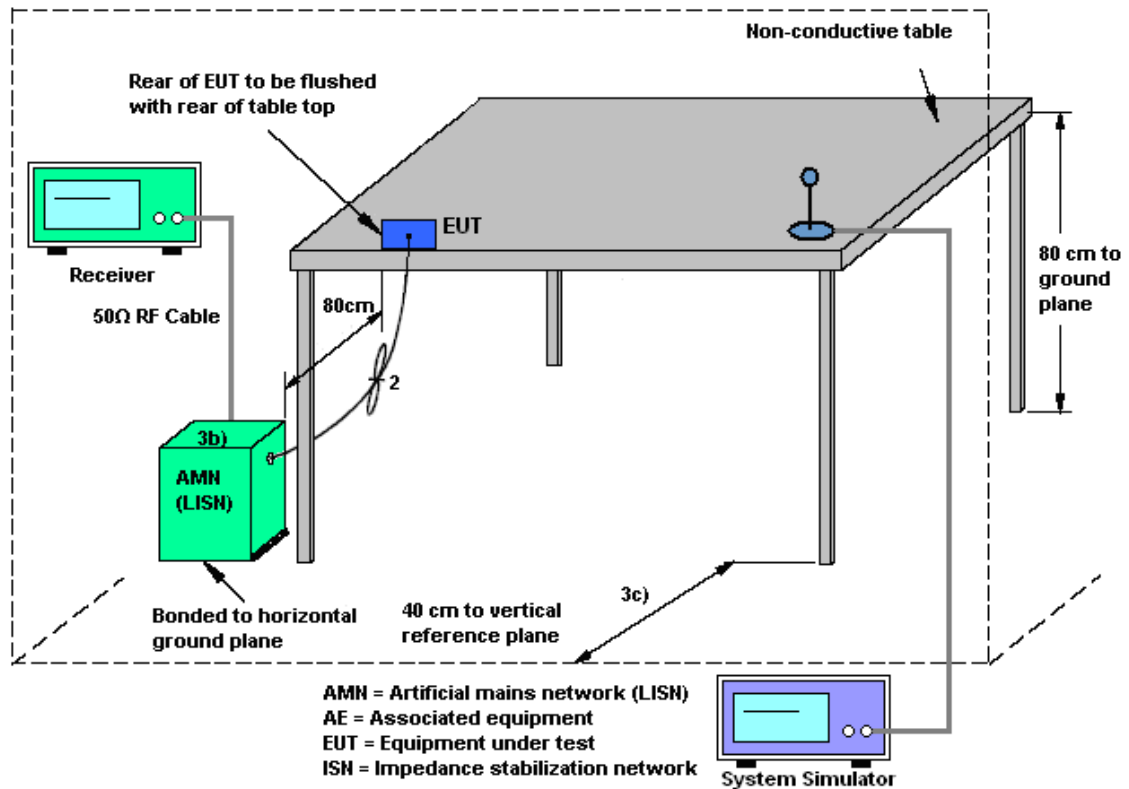
3.1.2. Measuring Instruments

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 shall 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

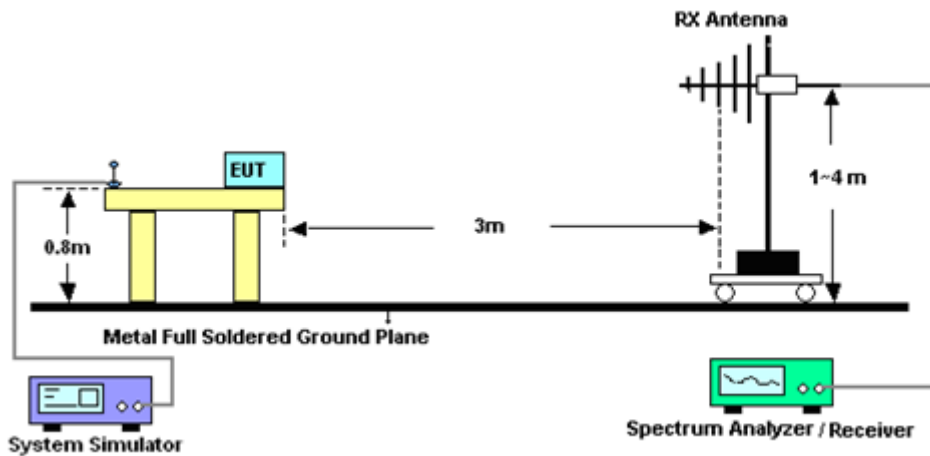
Refer a test equipment and calibration data table in this test report.

3.2.3. Test Procedures

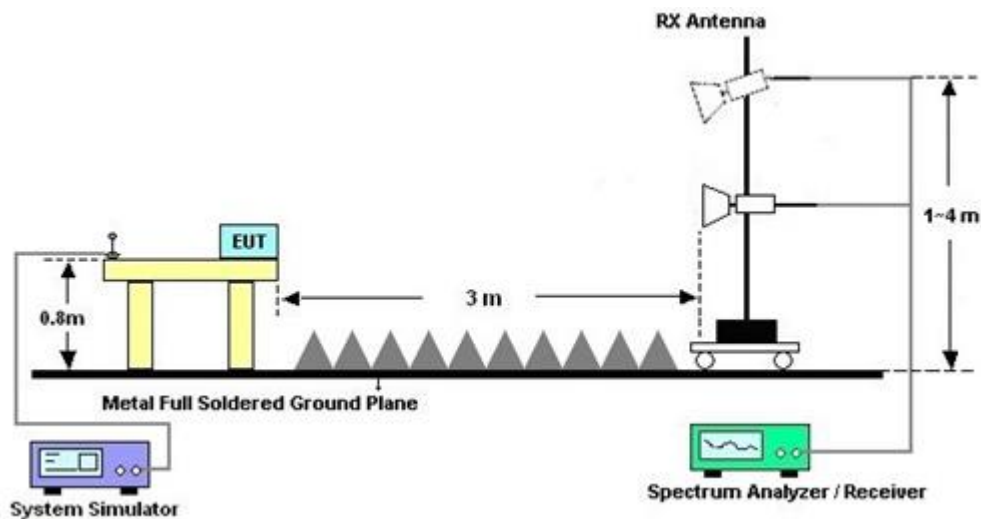
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna 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=120 kHz/VBW=300 kHz for frequency below 1 GHz; RBW=1 MHz VBW=3 MHz (Peak), RBW=1 MHz/VBW=10 Hz (Average) for frequency above 1 GHz).
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	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Apr. 08, 2021~ May 13, 2021	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 30, 2020	Apr. 08, 2021~ May 13, 2021	Nov. 29, 2021	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 18, 2020	Apr. 08, 2021~ May 13, 2021	Nov. 17, 2021	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 01, 2020	Apr. 08, 2021~ May 13, 2021	Nov. 30, 2021	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 16, 2020	Apr. 08, 2021~ May 13, 2021	Nov. 15, 2021	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Apr. 08, 2021~ May 13, 2021	N/A	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Feb. 25, 2021	Apr. 08, 2021~ May 13, 2021	Feb. 24, 2022	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 31, 2020	Apr. 08, 2021~ May 13, 2021	Dec. 30, 2021	Conduction (CO05-HY)
Amplifier	SONOMA	310N	187311	9kHz~1GHz	Oct. 21, 2020	Apr. 06, 2021~ May 12, 2021	Oct. 20, 2021	Radiation (03CH10-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	35413 & 02	30MHz~1GHz	Feb. 10, 2021	Apr. 06, 2021~ May 12, 2021	Feb. 09, 2022	Radiation (03CH10-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02114	1GHz~18GHz	Aug. 04, 2020	Apr. 06, 2021~ May 12, 2021	Aug. 03, 2021	Radiation (03CH10-HY)
Preamplifier	Jet-Power	JAP00101800- 30-10P	160118550004	1GHz~18GHz	Mar. 01, 2021	Apr. 06, 2021~ May 12, 2021	Feb. 28, 2022	Radiation (03CH10-HY)
Spectrum Analyzer	Keysight	N9010A	MY53470118	10Hz~44GHz	Jan. 15, 2021	Apr. 06, 2021~ May 12, 2021	Jan. 14, 2022	Radiation (03CH10-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Apr. 06, 2021~ May 12, 2021	N/A	Radiation (03CH10-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Apr. 06, 2021~ May 12, 2021	N/A	Radiation (03CH10-HY)
Turn Table	EMEC	TT 2200	N/A	0~360 Degree	N/A	Apr. 06, 2021~ May 12, 2021	N/A	Radiation (03CH10-HY)
Software	Audix	E3 6.2009-8-24	RK-001042	N/A	N/A	Apr. 06, 2021~ May 12, 2021	N/A	Radiation (03CH10-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY55420170	20MHz~8.4GHz	May 21, 2020	Apr. 06, 2021~ May 12, 2021	May 20, 2021	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104 / 102	MY11692/4PE, MY11693/4PE, MY2855/2	30MHz~1GHz	Nov. 06, 2020	Apr. 06, 2021~ May 12, 2021	Nov. 05, 2021	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104 / 102	MY11692/4PE, MY11693/4PE, MY2855/2	1GHz~18GHz	Nov. 06, 2020	Apr. 06, 2021~ May 12, 2021	Nov. 05, 2021	Radiation (03CH10-HY)

5. Uncertainty of Evaluation

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

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

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

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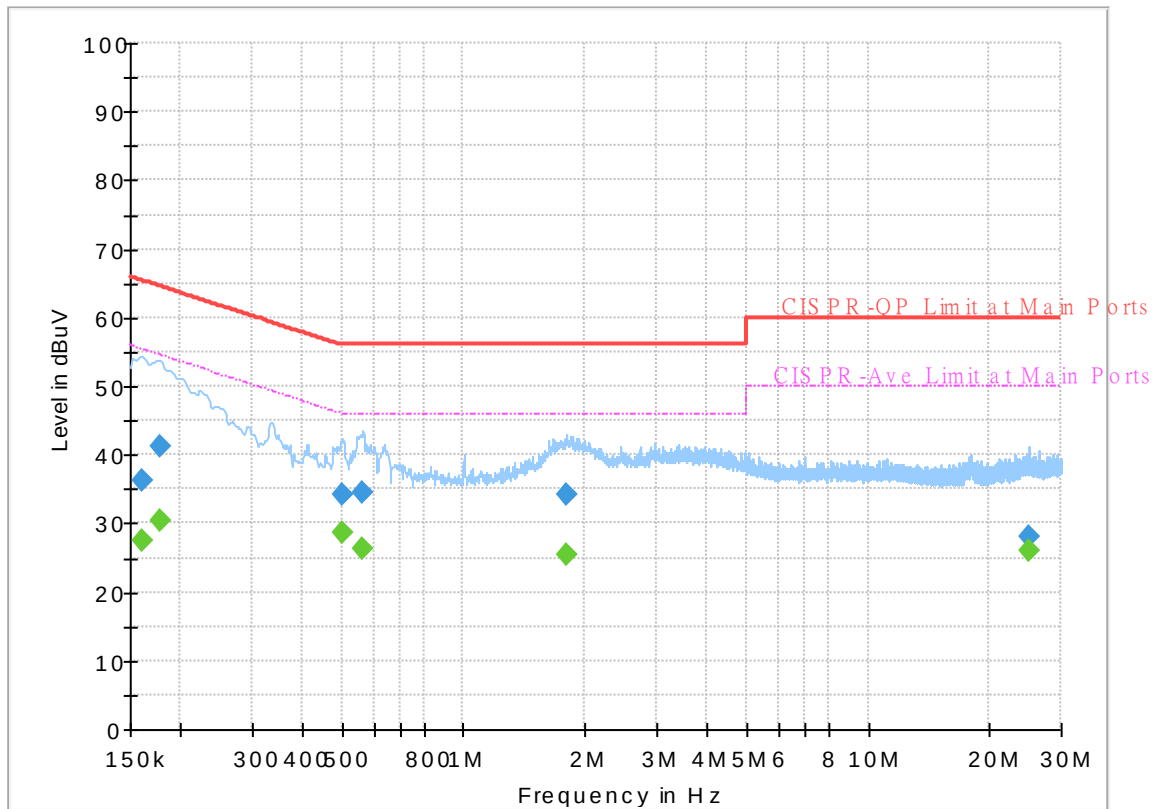
Appendix A. AC Conducted Emission Test Results

Test Engineer :	Tom Lee	Temperature :	23~26℃
		Relative Humidity :	40~50%

EUT Information

Report NO : 132425
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



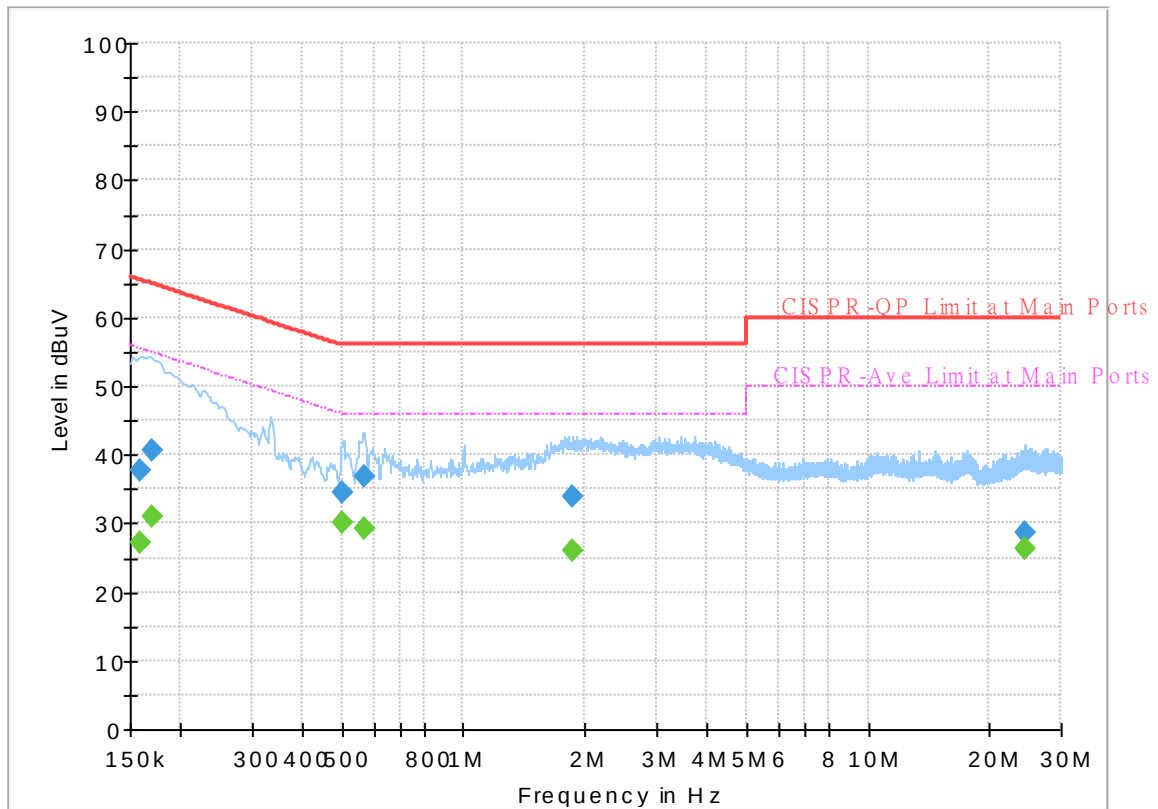
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.161250	---	27.42	55.40	27.98	L1	OFF	19.7
0.161250	36.15	---	65.40	29.25	L1	OFF	19.7
0.177000	---	30.43	54.63	24.20	L1	OFF	19.7
0.177000	41.21	---	64.63	23.42	L1	OFF	19.7
0.503250	---	28.51	46.00	17.49	L1	OFF	19.9
0.503250	34.32	---	56.00	21.68	L1	OFF	19.9
0.564000	---	26.42	46.00	19.58	L1	OFF	19.9
0.564000	34.48	---	56.00	21.52	L1	OFF	19.9
1.799250	---	25.58	46.00	20.42	L1	OFF	20.2
1.799250	34.19	---	56.00	21.81	L1	OFF	20.2
24.994500	---	25.96	50.00	24.04	L1	OFF	20.7
24.994500	27.94	---	60.00	32.06	L1	OFF	20.7

EUT Information

Report NO : 132425
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



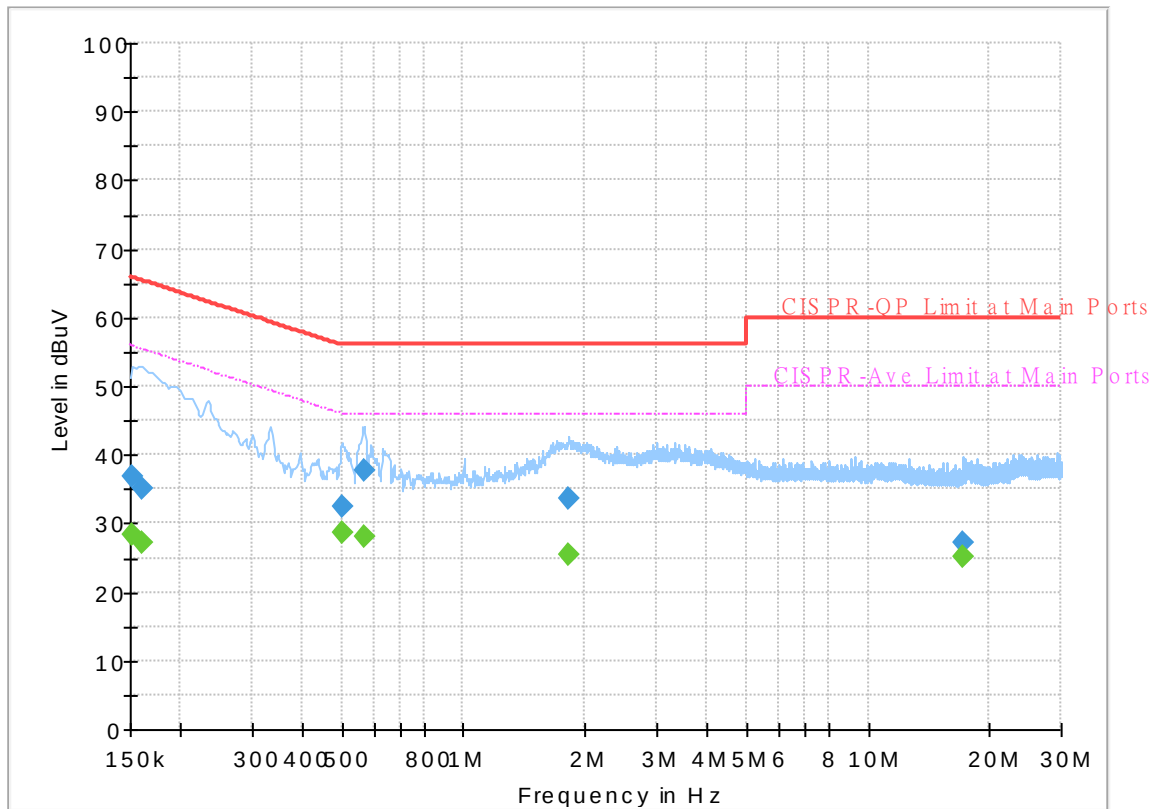
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.159000	---	27.23	55.52	28.29	N	OFF	19.7
0.159000	37.61	---	65.52	27.91	N	OFF	19.7
0.170250	---	30.96	54.95	23.99	N	OFF	19.7
0.170250	40.73	---	64.95	24.22	N	OFF	19.7
0.503250	---	30.16	46.00	15.84	N	OFF	19.9
0.503250	34.52	---	56.00	21.48	N	OFF	19.9
0.568500	---	29.38	46.00	16.62	N	OFF	20.0
0.568500	36.88	---	56.00	19.12	N	OFF	20.0
1.857750	---	26.16	46.00	19.84	N	OFF	20.3
1.857750	33.95	---	56.00	22.05	N	OFF	20.3
24.326700	---	26.19	50.00	23.81	N	OFF	20.8
24.326700	28.65	---	60.00	31.35	N	OFF	20.8

EUT Information

Report NO : 132425
Test Mode : Mode 2
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



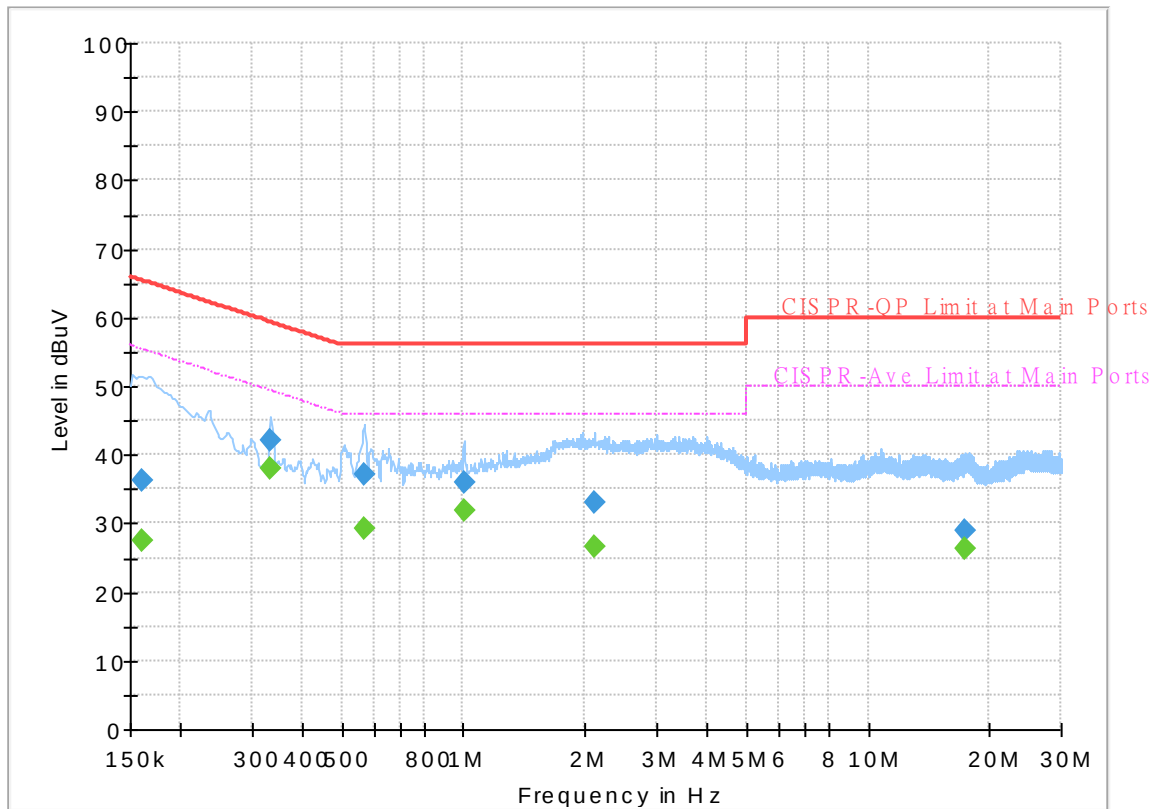
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	28.40	55.88	27.48	L1	OFF	19.7
0.152250	36.76	---	65.88	29.12	L1	OFF	19.7
0.161250	---	27.22	55.40	28.18	L1	OFF	19.7
0.161250	35.07	---	65.40	30.33	L1	OFF	19.7
0.501000	---	28.56	46.00	17.44	L1	OFF	19.9
0.501000	32.43	---	56.00	23.57	L1	OFF	19.9
0.568500	---	28.17	46.00	17.83	L1	OFF	19.9
0.568500	37.81	---	56.00	18.19	L1	OFF	19.9
1.812750	---	25.32	46.00	20.68	L1	OFF	20.2
1.812750	33.70	---	56.00	22.30	L1	OFF	20.2
17.155500	---	25.09	50.00	24.91	L1	OFF	20.4
17.155500	27.17	---	60.00	32.83	L1	OFF	20.4

EUT Information

Report NO : 132425
Test Mode : Mode 2
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



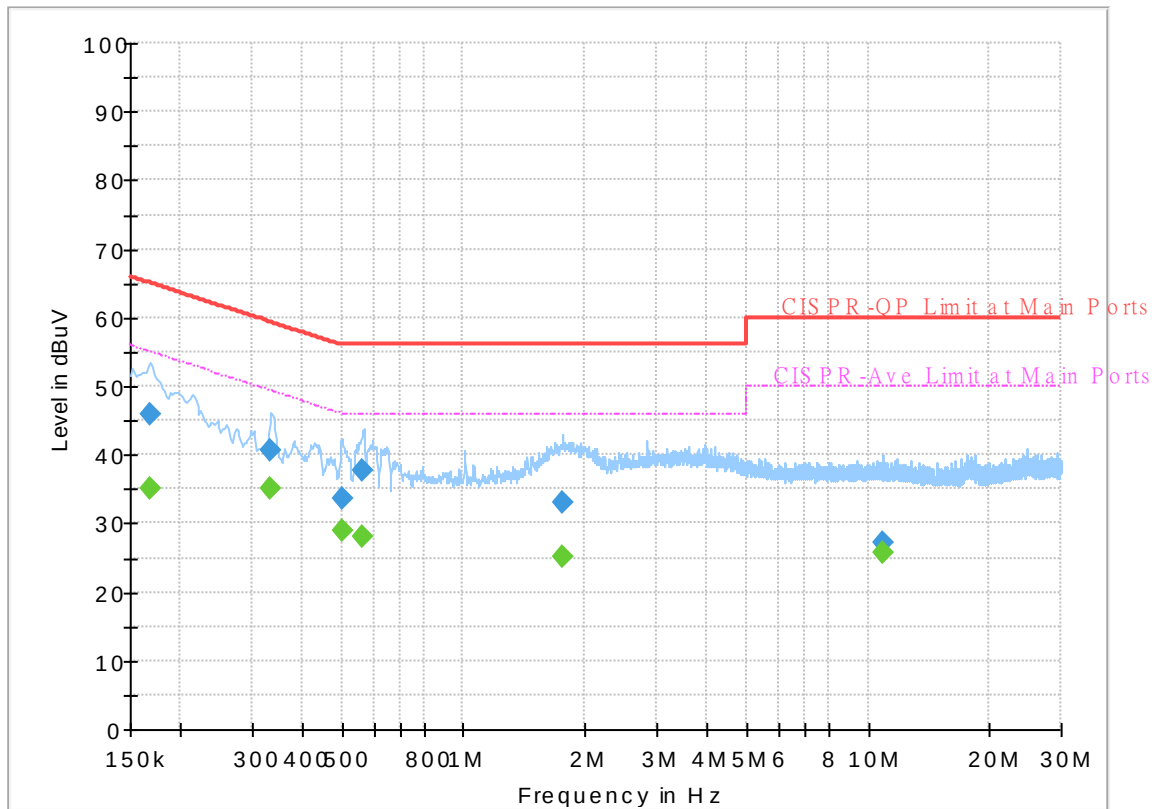
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.161250	---	27.54	55.40	27.86	N	OFF	19.7
0.161250	36.13	---	65.40	29.27	N	OFF	19.7
0.334500	---	38.06	49.34	11.28	N	OFF	19.8
0.334500	42.23	---	59.34	17.11	N	OFF	19.8
0.568500	---	29.36	46.00	16.64	N	OFF	20.0
0.568500	37.06	---	56.00	18.94	N	OFF	20.0
1.000500	---	31.80	46.00	14.20	N	OFF	20.3
1.000500	35.96	---	56.00	20.04	N	OFF	20.3
2.118750	---	26.72	46.00	19.28	N	OFF	20.2
2.118750	32.98	---	56.00	23.02	N	OFF	20.2
17.456730	---	26.22	50.00	23.78	N	OFF	20.6
17.456730	29.06	---	60.00	30.94	N	OFF	20.6

EUT Information

Report NO : 132425
Test Mode : Mode 3
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



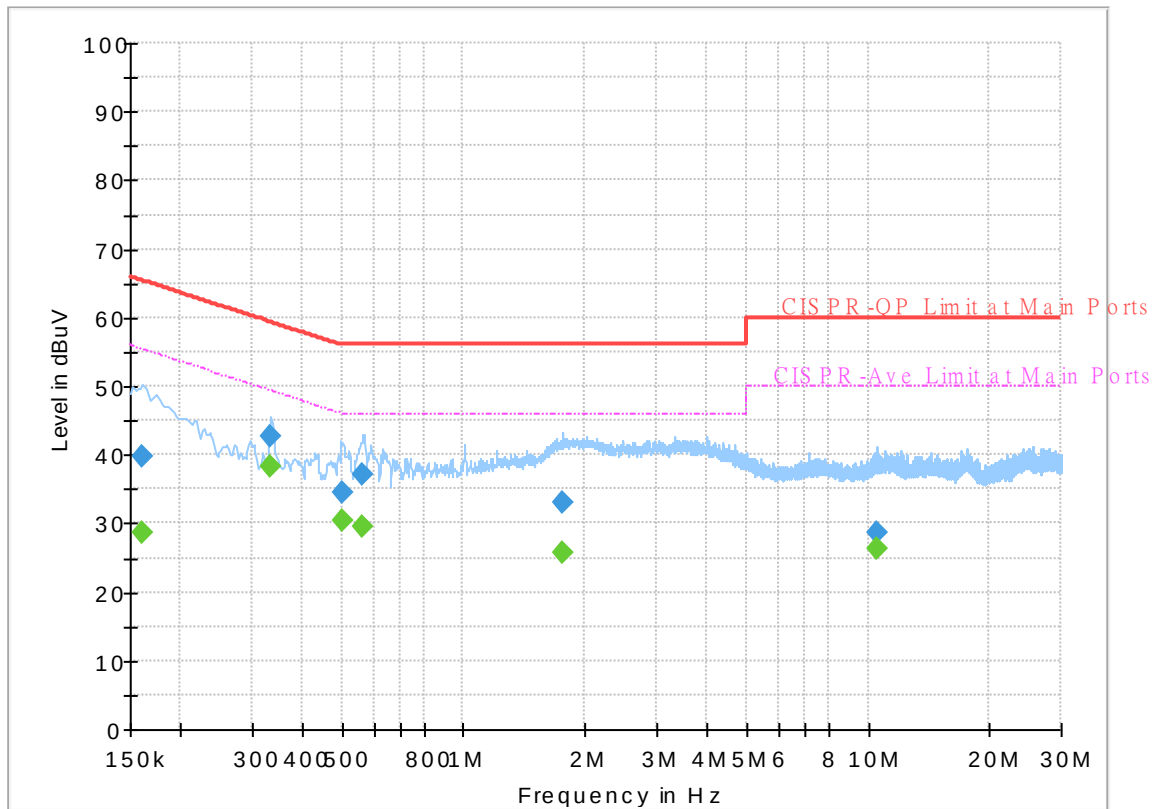
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.168000	---	35.03	55.06	20.03	L1	OFF	19.7
0.168000	45.99	---	65.06	19.07	L1	OFF	19.7
0.334500	---	35.00	49.34	14.34	L1	OFF	19.7
0.334500	40.61	---	59.34	18.73	L1	OFF	19.7
0.501000	---	29.01	46.00	16.99	L1	OFF	19.9
0.501000	33.73	---	56.00	22.27	L1	OFF	19.9
0.564000	---	27.98	46.00	18.02	L1	OFF	19.9
0.564000	37.80	---	56.00	18.20	L1	OFF	19.9
1.754250	---	25.20	46.00	20.80	L1	OFF	20.2
1.754250	33.06	---	56.00	22.94	L1	OFF	20.2
10.835250	---	25.62	50.00	24.38	L1	OFF	20.2
10.835250	27.12	---	60.00	32.88	L1	OFF	20.2

EUT Information

Report NO : 132425
Test Mode : Mode 3
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



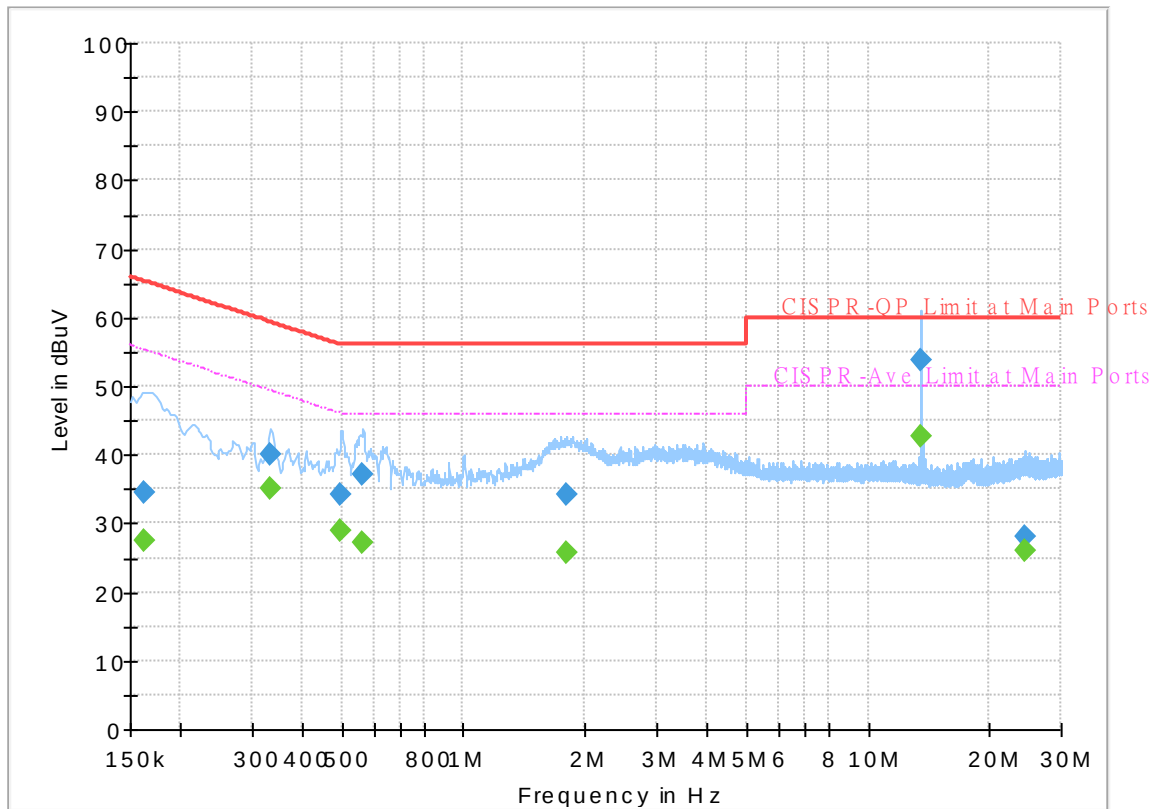
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.161250	---	28.68	55.40	26.72	N	OFF	19.7
0.161250	39.81	---	65.40	25.59	N	OFF	19.7
0.334500	---	38.37	49.34	10.97	N	OFF	19.8
0.334500	42.57	---	59.34	16.77	N	OFF	19.8
0.503250	---	30.31	46.00	15.69	N	OFF	19.9
0.503250	34.55	---	56.00	21.45	N	OFF	19.9
0.564000	---	29.58	46.00	16.42	N	OFF	20.0
0.564000	37.02	---	56.00	18.98	N	OFF	20.0
1.754250	---	25.59	46.00	20.41	N	OFF	20.3
1.754250	32.95	---	56.00	23.05	N	OFF	20.3
10.569750	---	26.28	50.00	23.72	N	OFF	20.3
10.569750	28.55	---	60.00	31.45	N	OFF	20.3

EUT Information

Report NO : 132425
Test Mode : Mode 4
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



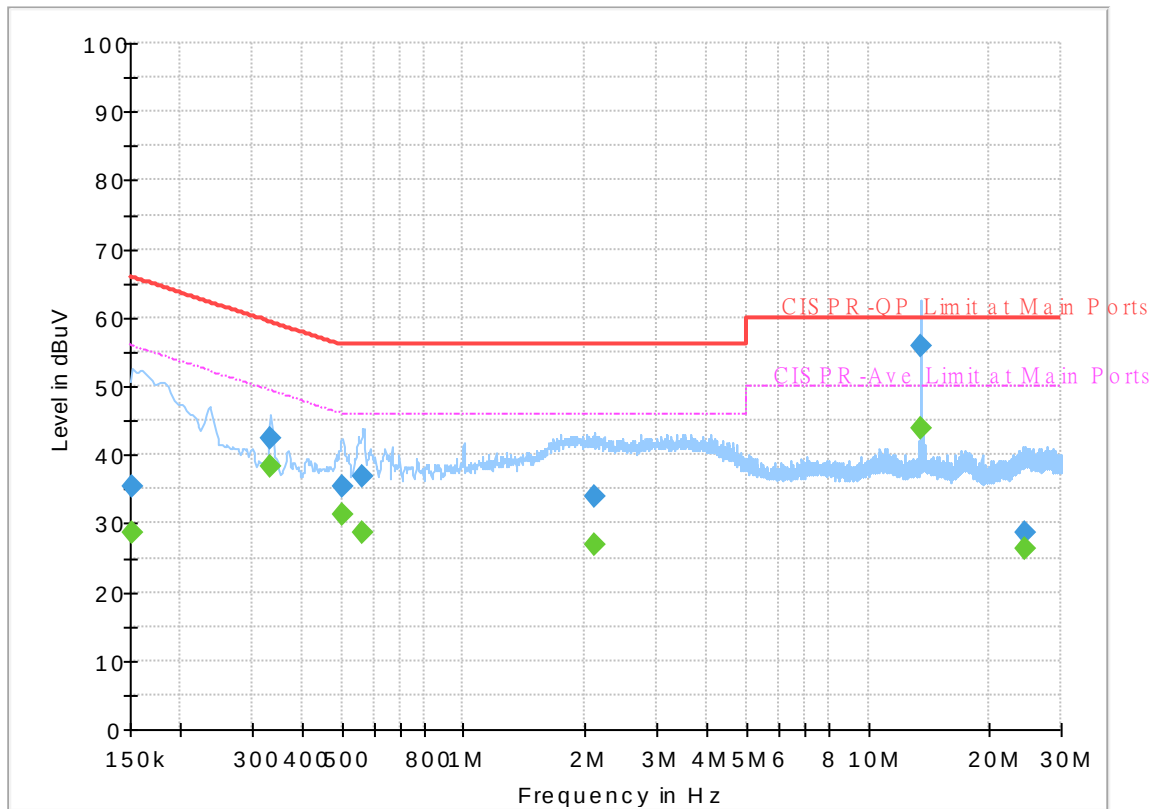
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.163140	---	27.46	55.30	27.84	L1	OFF	19.7
0.163140	34.43	---	65.30	30.87	L1	OFF	19.7
0.334500	---	35.06	49.34	14.28	L1	OFF	19.7
0.334500	40.18	---	59.34	19.16	L1	OFF	19.7
0.498750	---	28.94	46.02	17.08	L1	OFF	19.9
0.498750	34.19	---	56.02	21.83	L1	OFF	19.9
0.564000	---	27.33	46.00	18.67	L1	OFF	19.9
0.564000	37.02	---	56.00	18.98	L1	OFF	19.9
1.801500	---	25.59	46.00	20.41	L1	OFF	20.2
1.801500	34.31	---	56.00	21.69	L1	OFF	20.2
13.560000	---	42.59	50.00	7.41	L1	OFF	20.3
13.560000	53.93	---	60.00	6.07	L1	OFF	20.3
24.391500	---	25.93	50.00	24.07	L1	OFF	20.7
24.391500	28.00	---	60.00	32.00	L1	OFF	20.7

EUT Information

Report NO : 132425
Test Mode : Mode 4
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



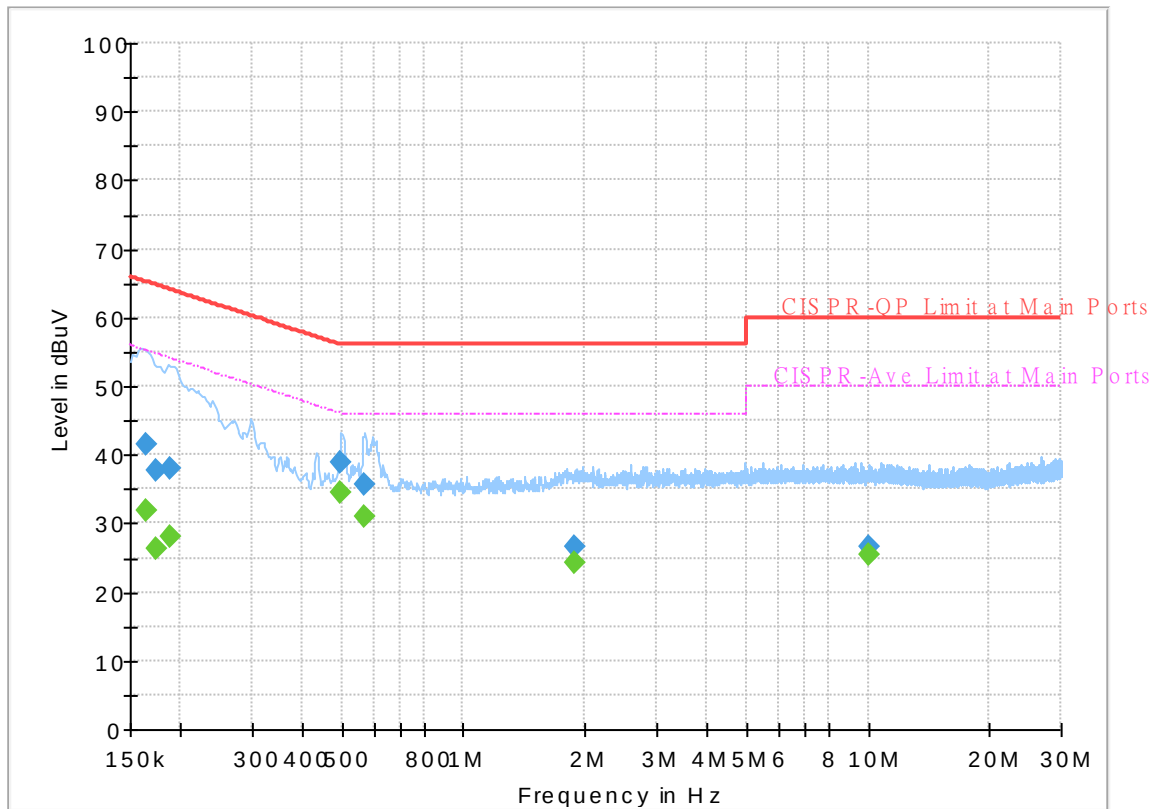
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	28.53	55.88	27.35	N	OFF	19.7
0.152250	35.39	---	65.88	30.49	N	OFF	19.7
0.334500	---	38.25	49.34	11.09	N	OFF	19.8
0.334500	42.49	---	59.34	16.85	N	OFF	19.8
0.501000	---	31.34	46.00	14.66	N	OFF	19.9
0.501000	35.41	---	56.00	20.59	N	OFF	19.9
0.561750	---	28.51	46.00	17.49	N	OFF	20.0
0.561750	36.78	---	56.00	19.22	N	OFF	20.0
2.098500	---	26.93	46.00	19.07	N	OFF	20.2
2.098500	33.80	---	56.00	22.20	N	OFF	20.2
13.560000	---	43.75	50.00	6.25	N	OFF	20.4
13.560000	55.76	---	60.00	4.24	N	OFF	20.4
24.375750	---	26.24	50.00	23.76	N	OFF	20.8
24.375750	28.64	---	60.00	31.36	N	OFF	20.8

EUT Information

Report NO : 132425
Test Mode : Mode 5
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



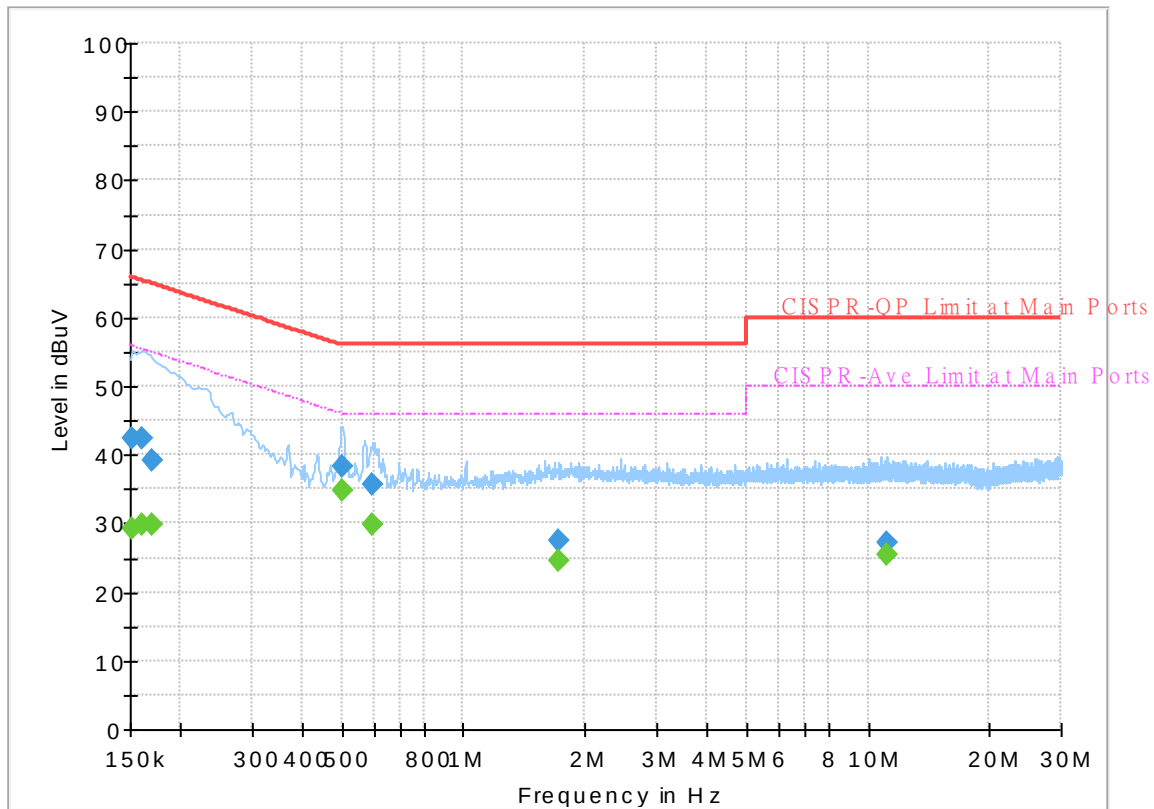
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.164130	---	31.96	55.25	23.29	L1	OFF	19.5
0.164130	41.38	---	65.25	23.87	L1	OFF	19.5
0.174750	---	26.40	54.73	28.33	L1	OFF	19.5
0.174750	37.62	---	64.73	27.11	L1	OFF	19.5
0.188610	---	28.00	54.10	26.10	L1	OFF	19.5
0.188610	37.97	---	64.10	26.13	L1	OFF	19.5
0.498300	---	34.56	46.03	11.47	L1	OFF	19.7
0.498300	38.75	---	56.03	17.28	L1	OFF	19.7
0.571020	---	30.93	46.00	15.07	L1	OFF	19.7
0.571020	35.54	---	56.00	20.46	L1	OFF	19.7
1.891680	---	24.27	46.00	21.73	L1	OFF	20.0
1.891680	26.48	---	56.00	29.52	L1	OFF	20.0
10.071420	---	25.33	50.00	24.67	L1	OFF	20.0
10.071420	26.65	---	60.00	33.35	L1	OFF	20.0

EUT Information

Report NO : 132425
Test Mode : Mode 5
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



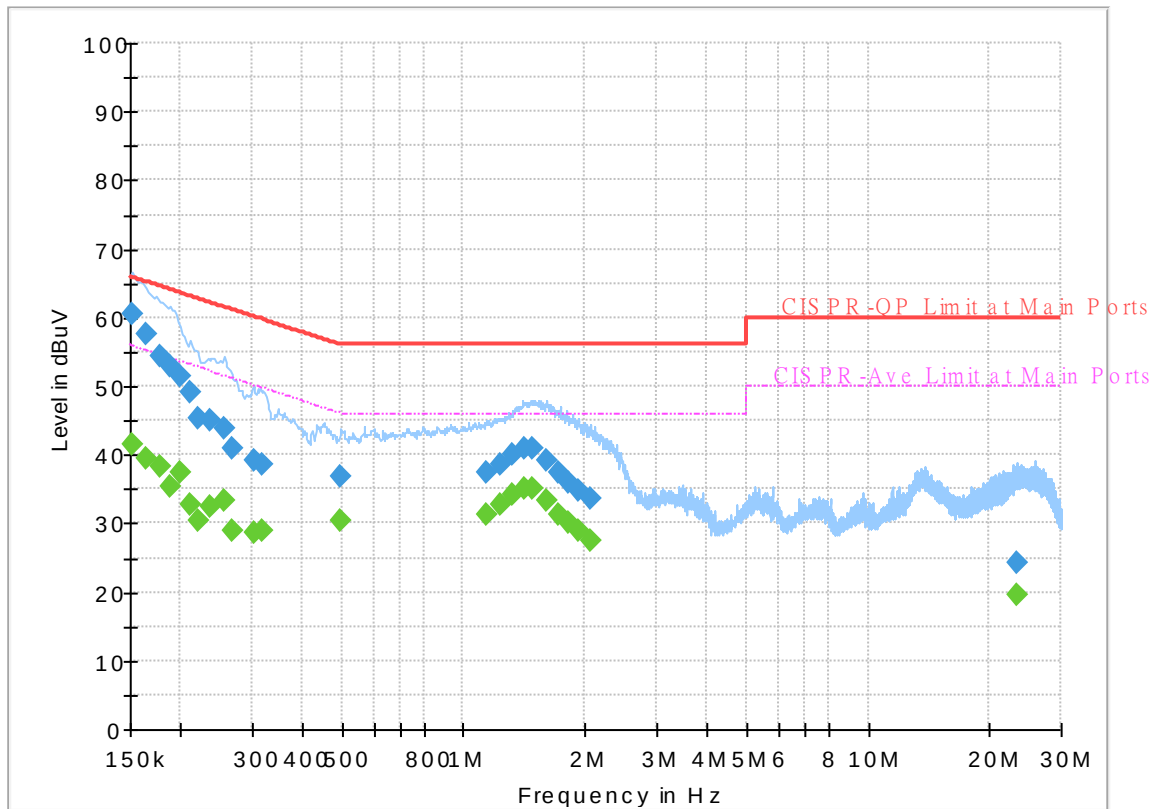
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	29.22	55.88	26.66	N	OFF	19.5
0.152250	42.47	---	65.88	23.41	N	OFF	19.5
0.161250	---	29.80	55.40	25.60	N	OFF	19.5
0.161250	42.27	---	65.40	23.13	N	OFF	19.5
0.170250	---	29.75	54.95	25.20	N	OFF	19.5
0.170250	39.28	---	64.95	25.67	N	OFF	19.5
0.503250	---	34.72	46.00	11.28	N	OFF	19.7
0.503250	38.30	---	56.00	17.70	N	OFF	19.7
0.597750	---	29.95	46.00	16.05	N	OFF	19.8
0.597750	35.71	---	56.00	20.29	N	OFF	19.8
1.713750	---	24.61	46.00	21.39	N	OFF	20.0
1.713750	27.42	---	56.00	28.58	N	OFF	20.0
11.136750	---	25.56	50.00	24.44	N	OFF	20.1
11.136750	27.33	---	60.00	32.67	N	OFF	20.1

EUT Information

Report NO : 132425
Test Mode : Mode 6
Test Voltage : Power From System
Phase : Line

Full Spectrum



Final_Result

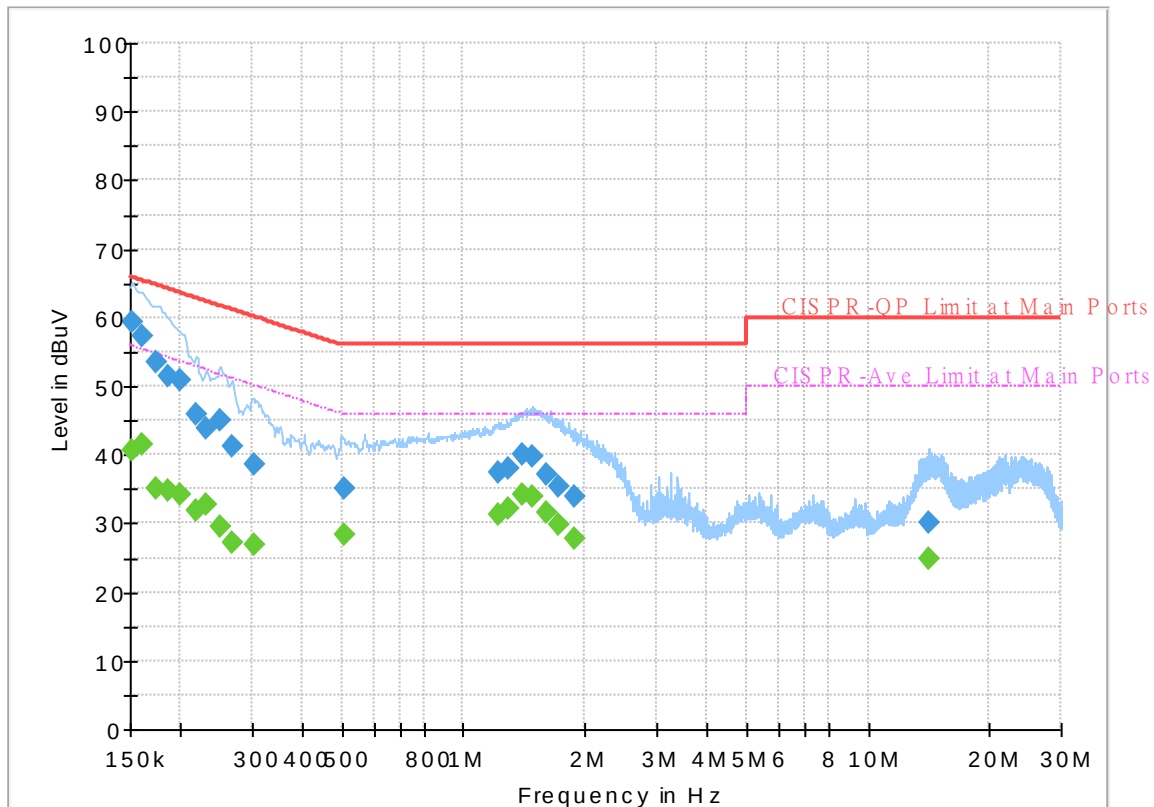
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	41.57	55.88	14.31	L1	OFF	19.7
0.152250	60.41	---	65.88	5.47	L1	OFF	19.7
0.163500	---	39.48	55.28	15.80	L1	OFF	19.7
0.163500	57.48	---	65.28	7.80	L1	OFF	19.7
0.177000	---	38.39	54.63	16.24	L1	OFF	19.7
0.177000	54.34	---	64.63	10.29	L1	OFF	19.7
0.188250	---	35.46	54.11	18.65	L1	OFF	19.7
0.188250	53.00	---	64.11	11.11	L1	OFF	19.7
0.199500	---	37.31	53.63	16.32	L1	OFF	19.7
0.199500	51.59	---	63.63	12.04	L1	OFF	19.7
0.210750	---	32.77	53.18	20.41	L1	OFF	19.7
0.210750	49.08	---	63.18	14.10	L1	OFF	19.7
0.222000	---	30.50	52.74	22.24	L1	OFF	19.7
0.222000	45.42	---	62.74	17.32	L1	OFF	19.7
0.237750	---	32.38	52.17	19.79	L1	OFF	19.7
0.237750	44.96	---	62.17	17.21	L1	OFF	19.7
0.255750	---	33.31	51.57	18.26	L1	OFF	19.7
0.255750	43.92	---	61.57	17.65	L1	OFF	19.7
0.269250	---	29.09	51.14	22.05	L1	OFF	19.7
0.269250	40.97	---	61.14	20.17	L1	OFF	19.7
0.303000	---	28.61	50.16	21.55	L1	OFF	19.7

0.303000	39.31	---	60.16	20.85	L1	OFF	19.7
0.318750	---	28.89	49.74	20.85	L1	OFF	19.7
0.318750	38.51	---	59.74	21.23	L1	OFF	19.7
0.498750	---	30.51	46.02	15.51	L1	OFF	19.8
0.498750	36.99	---	56.02	19.03	L1	OFF	19.8
1.140000	---	31.38	46.00	14.62	L1	OFF	20.2
1.140000	37.55	---	56.00	18.45	L1	OFF	20.2
1.236750	---	32.72	46.00	13.28	L1	OFF	20.2
1.236750	38.62	---	56.00	17.38	L1	OFF	20.2
1.329000	---	34.21	46.00	11.79	L1	OFF	20.2
1.329000	39.95	---	56.00	16.05	L1	OFF	20.2
1.407750	---	35.20	46.00	10.80	L1	OFF	20.2
1.407750	41.03	---	56.00	14.97	L1	OFF	20.2
1.475250	---	35.23	46.00	10.77	L1	OFF	20.2
1.475250	40.98	---	56.00	15.02	L1	OFF	20.2
1.596750	---	33.21	46.00	12.79	L1	OFF	20.2
1.596750	39.08	---	56.00	16.92	L1	OFF	20.2
1.711500	---	31.30	46.00	14.70	L1	OFF	20.2
1.711500	37.36	---	56.00	18.64	L1	OFF	20.2
1.819500	---	30.21	46.00	15.79	L1	OFF	20.2
1.819500	36.10	---	56.00	19.90	L1	OFF	20.2
1.929750	---	28.81	46.00	17.19	L1	OFF	20.2
1.929750	34.72	---	56.00	21.28	L1	OFF	20.2
2.062500	---	27.60	46.00	18.40	L1	OFF	20.2
2.062500	33.62	---	56.00	22.38	L1	OFF	20.2
23.266500	---	19.58	50.00	30.42	L1	OFF	20.1
23.266500	24.34	---	60.00	35.66	L1	OFF	20.1

EUT Information

Report NO : 132425
Test Mode : Mode 6
Test Voltage : Power From System
Phase : Neutral

Full Spectrum



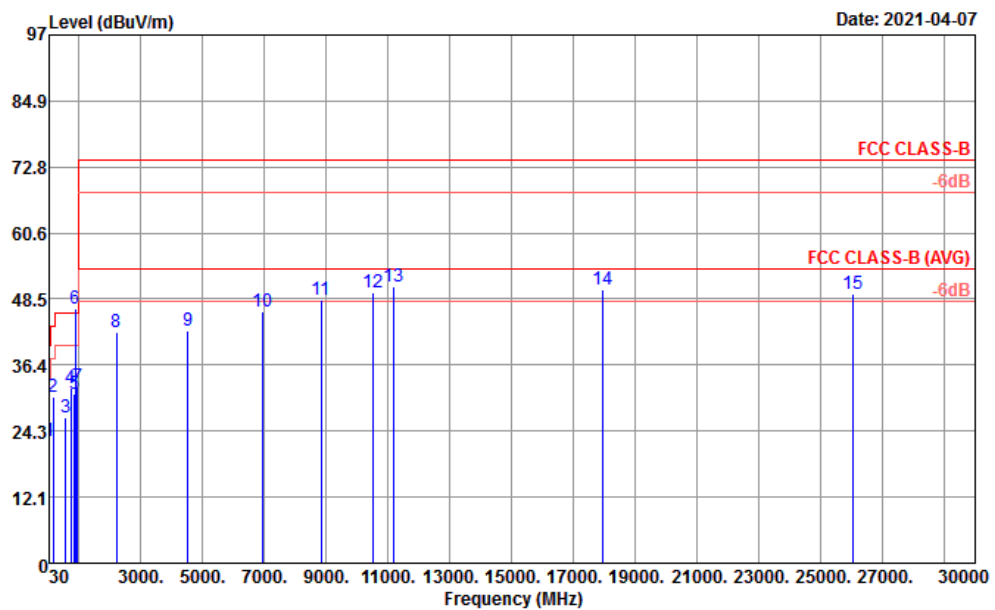
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	40.62	55.88	15.26	N	OFF	19.7
0.152250	59.30	---	65.88	6.58	N	OFF	19.7
0.161250	---	41.41	55.40	13.99	N	OFF	19.7
0.161250	57.42	---	65.40	7.98	N	OFF	19.7
0.174750	---	35.10	54.73	19.63	N	OFF	19.7
0.174750	53.49	---	64.73	11.24	N	OFF	19.7
0.186000	---	34.69	54.21	19.52	N	OFF	19.7
0.186000	51.39	---	64.21	12.82	N	OFF	19.7
0.199500	---	34.26	53.63	19.37	N	OFF	19.7
0.199500	50.74	---	63.63	12.89	N	OFF	19.7
0.217500	---	31.77	52.91	21.14	N	OFF	19.7
0.217500	45.80	---	62.91	17.11	N	OFF	19.7
0.231000	---	32.86	52.41	19.55	N	OFF	19.7
0.231000	43.88	---	62.41	18.53	N	OFF	19.7
0.251250	---	29.49	51.72	22.23	N	OFF	19.7
0.251250	45.00	---	61.72	16.72	N	OFF	19.7
0.267000	---	27.33	51.21	23.88	N	OFF	19.7
0.267000	41.24	---	61.21	19.97	N	OFF	19.7
0.303000	---	27.00	50.16	23.16	N	OFF	19.7
0.303000	38.47	---	60.16	21.69	N	OFF	19.7
0.505500	---	28.33	46.00	17.67	N	OFF	19.9

0.505500	35.01	---	56.00	20.99	N	OFF	19.9
1.223250	---	31.38	46.00	14.62	N	OFF	20.2
1.223250	37.36	---	56.00	18.64	N	OFF	20.2
1.297500	---	32.24	46.00	13.76	N	OFF	20.2
1.297500	38.01	---	56.00	17.99	N	OFF	20.2
1.396500	---	34.15	46.00	11.85	N	OFF	20.2
1.396500	39.95	---	56.00	16.05	N	OFF	20.2
1.479750	---	33.91	46.00	12.09	N	OFF	20.2
1.479750	39.69	---	56.00	16.31	N	OFF	20.2
1.610250	---	31.49	46.00	14.51	N	OFF	20.2
1.610250	37.21	---	56.00	18.79	N	OFF	20.2
1.722750	---	29.77	46.00	16.23	N	OFF	20.2
1.722750	35.49	---	56.00	20.51	N	OFF	20.2
1.878000	---	27.73	46.00	18.27	N	OFF	20.2
1.878000	33.83	---	56.00	22.17	N	OFF	20.2
14.095500	---	24.77	50.00	25.23	N	OFF	20.1
14.095500	30.10	---	60.00	29.90	N	OFF	20.1

Appendix B. Radiated Emission Test Result

Mode :	Mode 1	Temperature :	21~22°C
Test Engineer :	Johnny Hsieh	Relative Humidity :	45~46%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#6 is system simulator signal which can be ignored.		

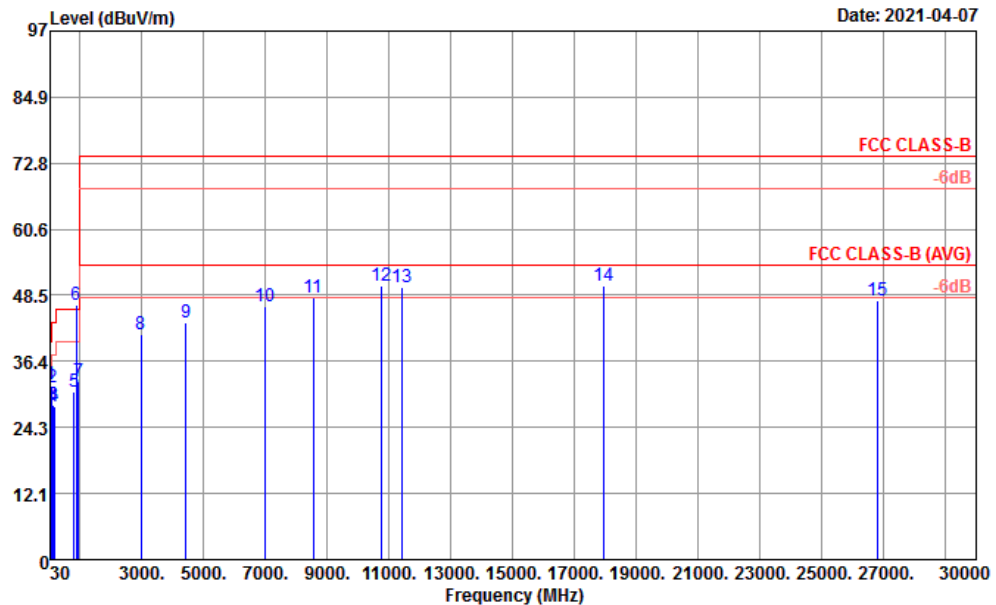


Site : 03CH10-HY
 Condition : FCC CLASS-B 3m SHF HORN BBHA9170009 HORIZONTAL
 Project : 132425
 Power : 120Vac/60Hz
 Mode : 1

	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	41.64	22.42	-17.58	40.00	18.69	35.63	0.74	32.64	---	---	Peak
2	164.83	30.56	-12.94	43.50	16.05	45.59	1.45	32.53	100	0	Peak
3	567.38	26.79	-19.21	46.00	25.99	30.65	2.66	32.51	---	---	Peak
4	731.31	32.05	-13.95	46.00	27.94	33.52	3.04	32.45	---	---	Peak
5	852.56	31.19	-14.81	46.00	29.27	30.67	3.28	32.03	---	---	Peak
6 *	881.40	46.65			28.90	46.28	3.33	31.86	---	---	Peak
7	951.50	32.30	-13.70	46.00	30.72	29.31	3.48	31.21	---	---	Peak
8	2200.00	42.55	-31.45	74.00	27.90	67.39	5.47	58.21	---	---	Peak
9	4526.00	42.65	-31.35	74.00	30.45	62.38	8.22	58.40	---	---	Peak
10	6954.00	46.18	-27.82	74.00	35.02	59.78	11.03	59.65	---	---	Peak
11	8832.00	48.24	-25.76	74.00	37.64	58.66	11.98	60.04	---	---	Peak
12	10510.00	49.62	-24.38	74.00	39.50	56.69	13.12	59.69	---	---	Peak
13	11158.00	50.86	-23.14	74.00	39.48	56.42	13.63	58.67	100	0	Peak
14	17945.00	50.23	-23.77	74.00	47.39	42.49	18.72	58.37	---	---	Peak
15	26064.00	49.53	-24.47	74.00	38.83	40.59	23.47	53.36	---	---	Peak



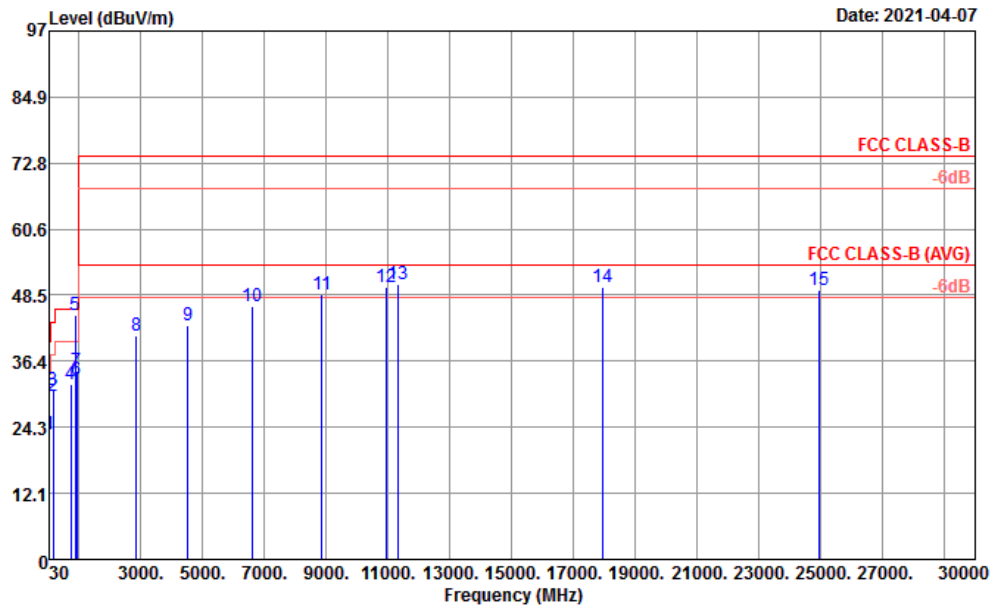
Mode :	Mode 1	Temperature :	21~22°C
Test Engineer :	Johnny Hsieh	Relative Humidity :	45~46%
Test Distance :	3m	Polarization :	Vertical
Remark :	#6 is system simulator signal which can be ignored.		



Site : 03CH10-HY
Condition : FCC CLASS-B 3m SHF HORN BBHA9170009 VERTICAL
Project : 132425
Power : 120Vac/60Hz
Mode : 1

	Freq	Level	Over	Limit	Antenna	Read	Cable	Preamp	A/Pos	T/Pos	Remark
	MHz	dBuV/m	Limit	dB	Line	Factor	Level	Loss	Factor		
					dBuV/m	dB/m	dBuV	dB	dB	cm	deg
1	42.61	32.15	-7.85	40.00	18.07	45.97	0.75	32.64	100	0	Peak
2	86.26	31.61	-8.39	40.00	14.12	49.03	1.06	32.60	---	---	Peak
3	143.49	28.27	-15.23	43.50	17.22	42.25	1.35	32.55	---	---	Peak
4	163.86	28.03	-15.47	43.50	16.07	43.04	1.45	32.53	---	---	Peak
5	798.24	30.88	-15.12	46.00	28.44	31.58	3.21	32.35	---	---	Peak
6 *	881.40	46.66			28.90	46.29	3.33	31.86	---	---	Peak
7	953.44	32.67	-13.33	46.00	30.83	29.54	3.49	31.19	---	---	Peak
8	2980.00	41.30	-32.70	74.00	28.36	64.57	6.51	58.14	---	---	Peak
9	4430.00	43.63	-30.37	74.00	30.16	63.68	8.20	58.41	---	---	Peak
10	6982.00	46.34	-27.66	74.00	35.13	59.75	11.12	59.66	---	---	Peak
11	8540.00	48.03	-25.97	74.00	37.06	58.82	11.79	59.64	---	---	Peak
12	10752.00	50.18	-23.82	74.00	39.66	56.41	13.31	59.20	---	---	Peak
13	11418.00	50.00	-24.00	74.00	39.62	55.17	13.84	58.63	---	---	Peak
14	17965.00	50.20	-23.80	74.00	47.83	42.03	18.73	58.39	100	0	Peak
15	26820.00	47.65	-26.35	74.00	39.70	37.35	23.57	52.97	---	---	Peak

Mode :	Mode 2	Temperature :	21~22°C
Test Engineer :	Johnny Hsieh	Relative Humidity :	45~46%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#5 is system simulator signal which can be ignored.		

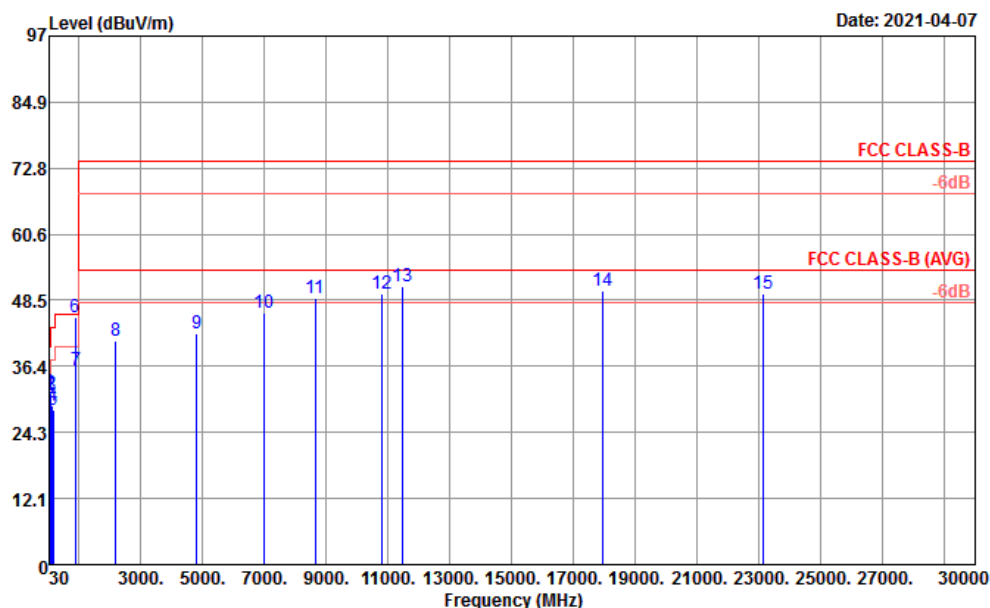


Site : 03CH10-HY
 Condition : FCC CLASS-B 3m SHF HORN BBHA9170009 HORIZONTAL
 Project : 132425
 Power : 120Vac/60Hz
 Mode : 2

	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	42.61	23.01	-16.99	40.00	18.07	36.83	0.75	32.64	---	---	Peak
2	162.89	29.88	-13.62	43.50	16.11	44.86	1.44	32.53	---	---	Peak
3	170.65	31.16	-12.34	43.50	15.59	46.63	1.47	32.53	---	---	Peak
4	729.37	32.08	-13.92	46.00	27.83	33.67	3.03	32.45	---	---	Peak
5	881.60	44.91			28.90	44.54	3.33	31.86	---	---	Peak
6	907.85	33.05	-12.95	46.00	28.97	32.36	3.39	31.67	---	---	Peak
7	914.64	34.69	-11.31	46.00	29.08	33.81	3.40	31.60	100	0	Peak
8	2862.00	41.17	-32.83	74.00	28.02	64.92	6.35	58.12	---	---	Peak
9	4518.00	42.96	-31.04	74.00	30.44	62.69	8.22	58.39	---	---	Peak
10	6592.00	46.34	-27.66	74.00	34.28	61.07	10.51	59.52	---	---	Peak
11	8864.00	48.64	-25.36	74.00	37.57	59.09	12.07	60.09	---	---	Peak
12	10950.00	49.91	-24.09	74.00	40.05	55.18	13.47	58.79	---	---	Peak
13	11314.00	50.66	-23.34	74.00	39.43	56.12	13.76	58.65	100	0	Peak
14	17960.00	50.10	-23.90	74.00	47.72	42.04	18.73	58.39	---	---	Peak
15	24948.00	49.44	-24.56	74.00	39.16	40.79	22.89	53.40	---	---	Peak



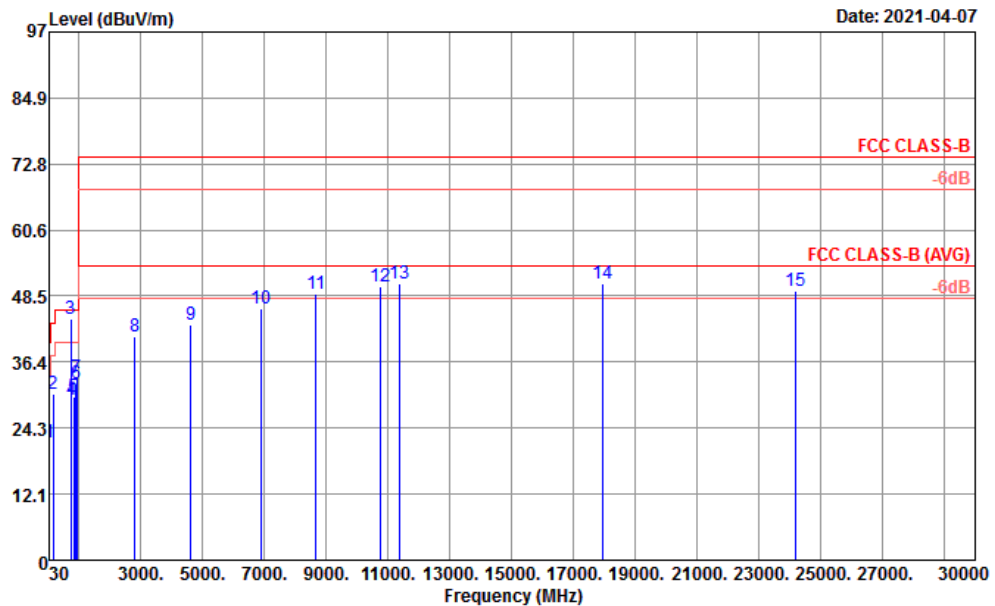
Mode :	Mode 2	Temperature :	21~22°C
Test Engineer :	Johnny Hsieh	Relative Humidity :	45~46%
Test Distance :	3m	Polarization :	Vertical
Remark :	#6 is system simulator signal which can be ignored.		



Site : 03CH10-HY
Condition : FCC CLASS-B 3m SHF HORN BBHA9170009 VERTICAL
Project : 132425
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	42.61	31.53	-8.47	40.00	18.07	45.35	0.75	32.64	100	0	Peak
2	84.32	31.29	-8.71	40.00	13.89	48.95	1.05	32.60	---	---	Peak
3	94.99	31.04	-12.46	43.50	15.37	47.14	1.12	32.59	---	---	Peak
4	142.52	29.10	-14.40	43.50	17.29	43.02	1.34	32.55	---	---	Peak
5	165.80	28.49	-15.01	43.50	16.04	43.53	1.45	32.53	---	---	Peak
6	881.60	45.33			28.90	44.96	3.33	31.86	---	---	Peak
7	906.88	35.62	-10.38	46.00	28.98	34.93	3.39	31.68	---	---	Peak
8	2190.00	41.08	-32.92	74.00	27.84	66.00	5.45	58.21	---	---	Peak
9	4816.00	42.56	-31.44	74.00	31.00	61.44	8.59	58.47	---	---	Peak
10	6980.00	46.22	-27.78	74.00	35.12	59.65	11.11	59.66	---	---	Peak
11	8654.00	48.93	-25.07	74.00	37.32	59.54	11.87	59.80	---	---	Peak
12	10786.00	49.61	-24.39	74.00	39.76	55.64	13.34	59.13	---	---	Peak
13	11482.00	50.97	-23.03	74.00	39.68	56.02	13.89	58.62	100	0	Peak
14	17950.00	50.37	-23.63	74.00	47.50	42.53	18.72	58.38	---	---	Peak
15	23136.00	49.80	-24.20	74.00	38.68	42.62	22.00	53.50	---	---	Peak

Mode :	Mode 3	Temperature :	21~22°C
Test Engineer :	Johnny Hsieh	Relative Humidity :	45~46%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#3 is system simulator signal which can be ignored.		

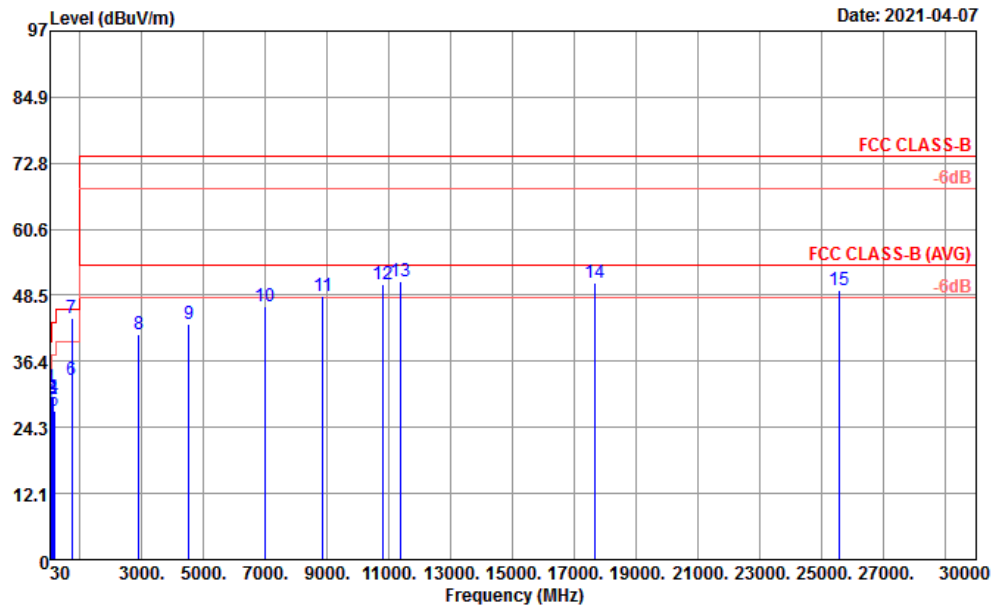


Site : 03CH10-HY
 Condition : FCC CLASS-B 3m SHF HORN BBHA9170009 HORIZONTAL
 Project : 132425
 Power : 120Vac/60Hz
 Mode : 3

	Freq	Level	Over	Limit	Antenna	Read	Cable	Preamp	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dBuV	dB	dB	cm	deg	
1	41.64	21.61	-18.39	40.00	18.69	34.82	0.74	32.64	---	---	Peak
2	162.89	30.51	-12.99	43.50	16.11	45.49	1.44	32.53	---	---	Peak
3	737.50	44.20			28.28	45.31	3.05	32.44	---	---	Peak
4	749.74	29.40	-16.60	46.00	28.56	30.18	3.08	32.42	---	---	Peak
5	831.22	30.00	-16.00	46.00	28.87	30.04	3.25	32.16	---	---	Peak
6	907.85	32.36	-13.64	46.00	28.97	31.67	3.39	31.67	---	---	Peak
7	922.40	33.56	-12.44	46.00	29.29	32.37	3.42	31.52	100	0	Peak
8	2796.00	41.10	-32.90	74.00	27.90	65.04	6.26	58.10	---	---	Peak
9	4626.00	43.27	-30.73	74.00	30.80	62.60	8.29	58.42	---	---	Peak
10	6876.00	46.13	-27.87	74.00	34.71	60.27	10.78	59.63	---	---	Peak
11	8674.00	48.78	-25.22	74.00	37.40	59.33	11.87	59.82	---	---	Peak
12	10734.00	50.12	-23.88	74.00	39.60	56.45	13.30	59.23	---	---	Peak
13	11368.00	50.75	-23.25	74.00	39.54	56.05	13.80	58.64	---	---	Peak
14	17955.00	50.89	-23.11	74.00	47.61	42.94	18.72	58.38	100	0	Peak
15	24204.00	49.44	-24.56	74.00	38.96	41.41	22.53	53.46	---	---	Peak



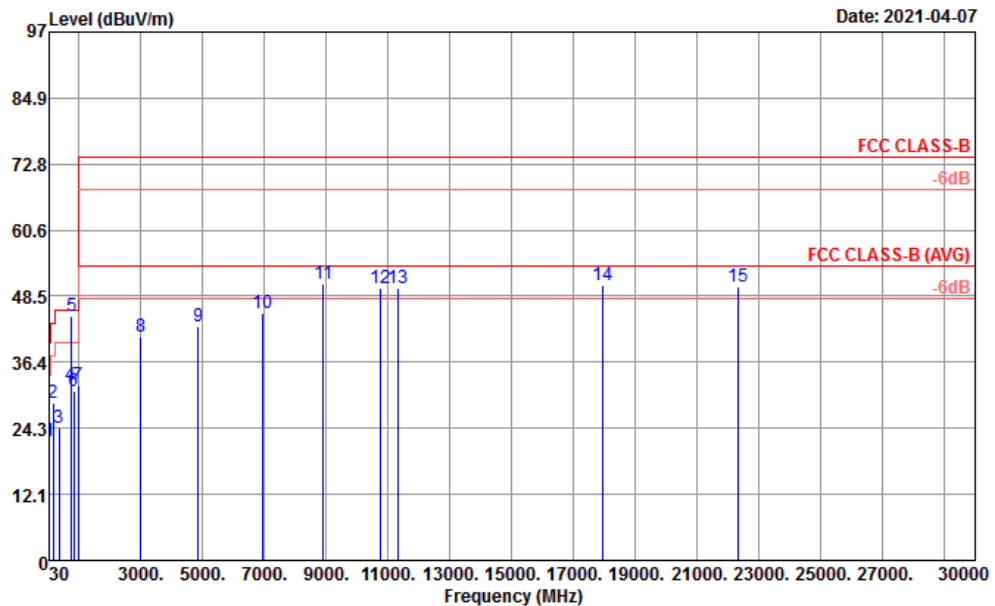
Mode :	Mode 3	Temperature :	21~22°C
Test Engineer :	Johnny Hsieh	Relative Humidity :	45~46%
Test Distance :	3m	Polarization :	Vertical
Remark :	#7 is system simulator signal which can be ignored.		



Site : 03CH10-HY
 Condition : FCC CLASS-B 3m SHF HORN BBHA9170009 VERTICAL
 Project : 132425
 Power : 120Vac/60Hz
 Mode : 3

	Freq	Level	Over	Limit	Antenna	Read	Cable	Preamp	A/Pos	T/Pos	Remark
	MHz	dBuV/m	Limit	dB	dBuV/m	dB/m	dBuV	dB	dB	cm	deg
1	42.61	31.64	-8.36	40.00	18.07	45.46	0.75	32.64	100	0	Peak
2	85.29	29.78	-10.22	40.00	14.00	47.33	1.05	32.60	---	---	Peak
3	93.05	29.40	-14.10	43.50	15.08	45.82	1.10	32.60	---	---	Peak
4	142.52	29.80	-13.70	43.50	17.29	43.72	1.34	32.55	---	---	Peak
5	166.77	27.33	-16.17	43.50	15.96	42.44	1.46	32.53	---	---	Peak
6	729.37	32.97	-13.03	46.00	27.83	34.56	3.03	32.45	---	---	Peak
7	737.50	44.32			28.28	45.43	3.05	32.44	---	---	Peak
8	2894.00	41.29	-32.71	74.00	28.09	64.92	6.40	58.12	---	---	Peak
9	4518.00	43.21	-30.79	74.00	30.44	62.94	8.22	58.39	---	---	Peak
10	6980.00	46.44	-27.56	74.00	35.12	59.87	11.11	59.66	---	---	Peak
11	8858.00	48.39	-25.61	74.00	37.58	58.84	12.05	60.08	---	---	Peak
12	10786.00	50.45	-23.55	74.00	39.76	56.48	13.34	59.13	---	---	Peak
13	11358.00	50.98	-23.02	74.00	39.52	56.31	13.79	58.64	100	0	Peak
14	17640.00	50.84	-23.16	74.00	42.86	47.53	18.48	58.03	---	---	Peak
15	25548.00	49.48	-24.52	74.00	38.80	40.86	23.22	53.40	---	---	Peak

Mode :	Mode 4	Temperature :	21~22°C
Test Engineer :	Johnny Hsieh	Relative Humidity :	45~46%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#5 is system simulator signal which can be ignored.		

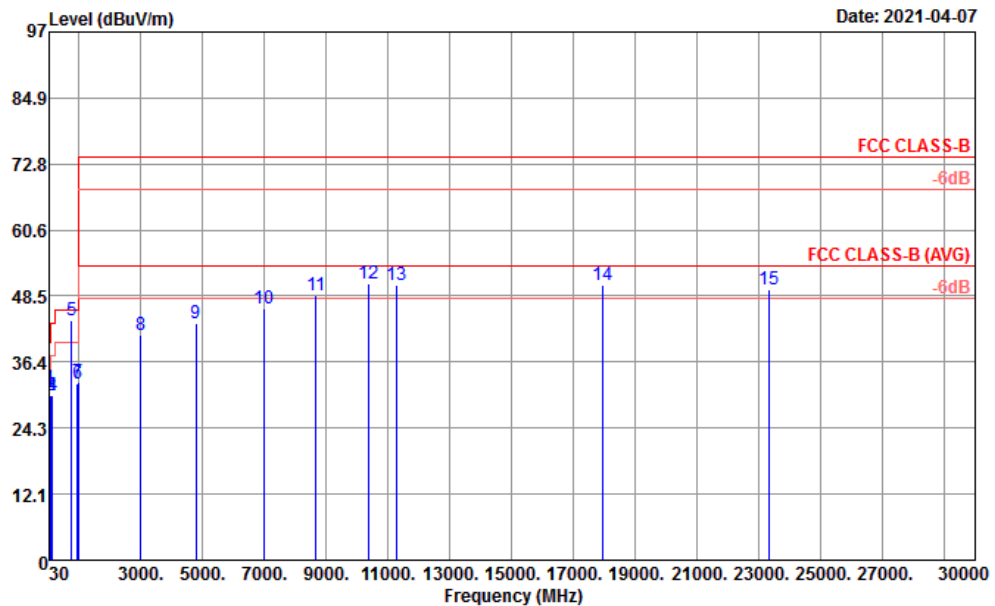


Site : 03CH10-HY
 Condition : FCC CLASS-B 3m SHF HORN BBHA9170009 HORIZONTAL
 Project : 132425
 Power : 120Vac/60Hz
 Mode : 4

	Freq	Level	Over	Limit	Antenna	Read	Cable	Preamp	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dBuV	dB	dB	cm	deg	
1	41.64	21.93	-18.07	40.00	18.69	35.14	0.74	32.64	---	---	Peak
2	170.65	28.98	-14.52	43.50	15.59	44.45	1.47	32.53	---	---	Peak
3	343.31	24.43	-21.57	46.00	20.18	34.58	2.07	32.40	---	---	Peak
4	734.22	32.11	-13.89	46.00	28.12	33.39	3.04	32.44	---	---	Peak
5	751.00	44.82			28.57	45.59	3.08	32.42	---	---	Peak
6	838.01	31.11	-14.89	46.00	29.06	30.91	3.26	32.12	---	---	Peak
7	960.00	32.23	-13.77	46.00	31.07	28.79	3.50	31.13	100	0	Peak
8	2986.00	41.16	-32.84	74.00	28.37	64.41	6.52	58.14	---	---	Peak
9	4852.00	42.95	-31.05	74.00	31.00	61.83	8.59	58.47	---	---	Peak
10	6948.00	45.50	-28.50	74.00	35.00	59.14	11.01	59.65	---	---	Peak
11	8900.00	50.90	-23.10	74.00	37.50	61.36	12.18	60.14	100	0	Peak
12	10756.00	50.12	-23.88	74.00	39.67	56.32	13.32	59.19	---	---	Peak
13	11346.00	50.00	-24.00	74.00	39.49	55.37	13.78	58.64	---	---	Peak
14	17965.00	50.48	-23.52	74.00	47.83	42.31	18.73	58.39	---	---	Peak
15	22308.00	50.35	-23.65	74.00	38.58	44.03	21.38	53.64	---	---	Peak



Mode :	Mode 4	Temperature :	21~22°C
Test Engineer :	Johnny Hsieh	Relative Humidity :	45~46%
Test Distance :	3m	Polarization :	Vertical
Remark :	#5 is system simulator signal which can be ignored.		

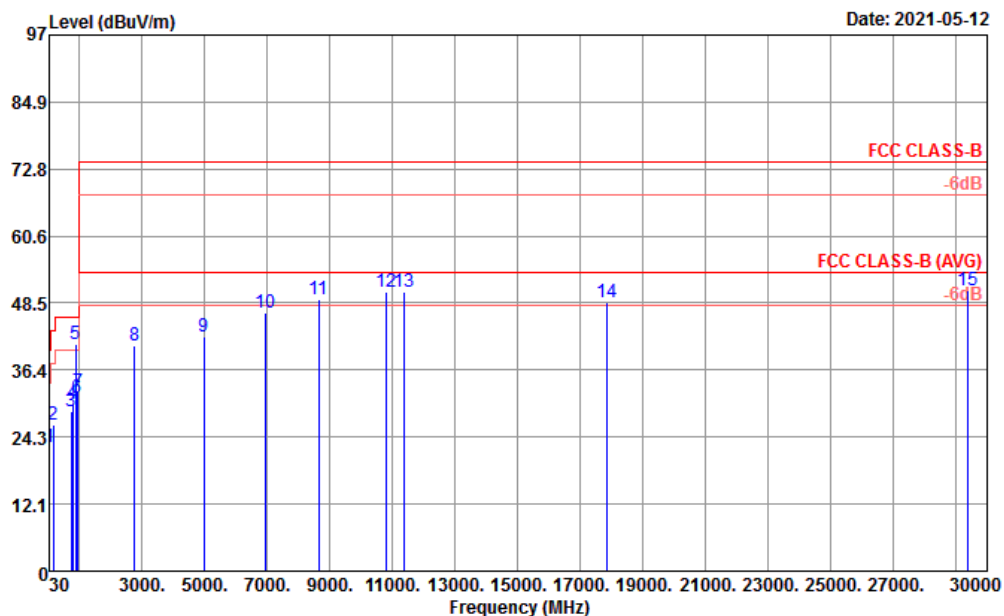


Site : 03CH10-HY
Condition : FCC CLASS-B 3m SHF HORN BBHA9170009 VERTICAL
Project : 132425
Power : 120Vac/60Hz
Mode : 4

	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	42.61	31.50	-8.50	40.00	18.07	45.32	0.75	32.64	100	0	Peak
2	84.32	30.18	-9.82	40.00	13.89	47.84	1.05	32.60	---	---	Peak
3	94.02	30.16	-13.34	43.50	15.21	46.43	1.11	32.59	---	---	Peak
4	142.52	30.40	-13.10	43.50	17.29	44.32	1.34	32.55	---	---	Peak
5	751.00	44.09			28.57	44.86	3.08	32.42	---	---	Peak
6	936.95	32.47	-13.53	46.00	29.94	30.45	3.45	31.37	---	---	Peak
7	960.00	32.68	-13.32	46.00	31.07	29.24	3.50	31.13	---	---	Peak
8	2986.00	41.45	-32.55	74.00	28.37	64.70	6.52	58.14	---	---	Peak
9	4786.00	43.59	-30.41	74.00	31.00	62.48	8.57	58.46	---	---	Peak
10	6984.00	46.33	-27.67	74.00	35.14	59.72	11.13	59.66	---	---	Peak
11	8672.00	48.73	-25.27	74.00	37.39	59.29	11.87	59.82	---	---	Peak
12	10352.00	50.87	-23.13	74.00	39.40	58.41	13.00	59.94	100	0	Peak
13	11268.00	50.60	-23.40	74.00	39.40	56.13	13.72	58.65	---	---	Peak
14	17960.00	50.46	-23.54	74.00	47.72	42.40	18.73	58.39	---	---	Peak
15	23352.00	49.78	-24.22	74.00	38.83	42.34	22.11	53.50	---	---	Peak



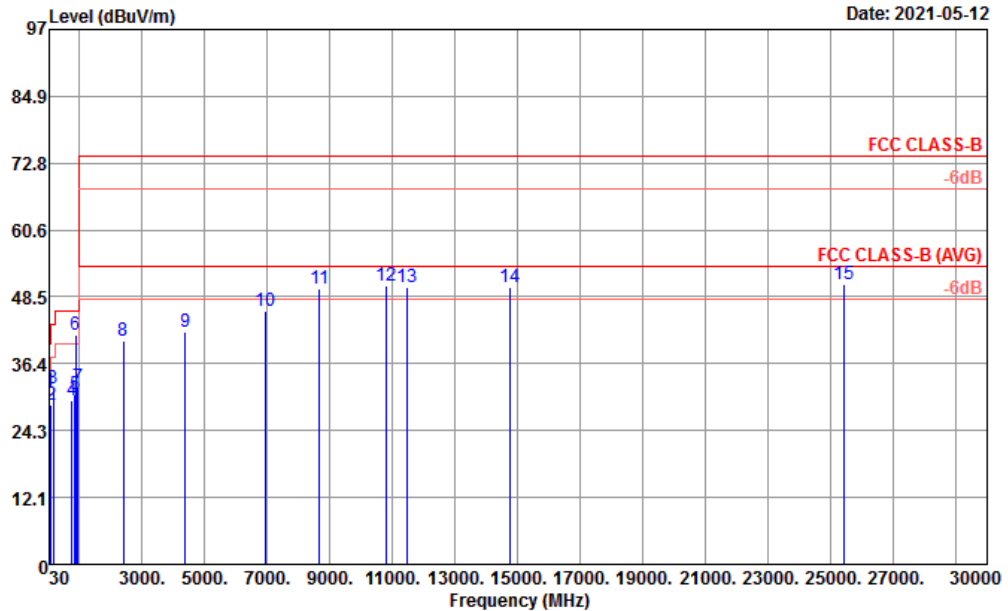
Mode :	Mode 5	Temperature :	21~22°C
Test Engineer :	Johnny Hsieh	Relative Humidity :	45~46%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#5 is system simulator signal which can be ignored.		



Site : 03CH10-HY
Condition : FCC CLASS-B 3m SHF HORN BBHA9170009 HORIZONTAL
Project : 132425
Power : 120Vac/60Hz
Mode : 5

	Freq	Level	Over	Limit	Antenna	Read	Cable	Preamp	A/Pos	T/Pos	Remark
	MHz	dBuV/m	Limit	dB	dBuV/m	dB/m	Level	Loss	Factor	cm	deg
1	30.00	22.35	-17.65	40.00	24.38	29.99	0.63	32.65	---	---	Peak
2	159.01	26.58	-16.92	43.50	16.59	41.10	1.43	32.54	---	---	Peak
3	731.31	29.01	-16.99	46.00	27.94	30.48	3.04	32.45	---	---	Peak
4	790.48	30.22	-15.78	46.00	28.58	30.81	3.19	32.36	---	---	Peak
5	881.50	41.04			28.90	40.67	3.33	31.86	---	---	Peak
6	911.73	31.45	-14.55	46.00	29.00	30.68	3.40	31.63	---	---	Peak
7	945.68	32.48	-13.52	46.00	30.47	29.81	3.47	31.27	100	0	Peak
8	2762.00	40.83	-33.17	74.00	27.90	64.82	6.21	58.10	---	---	Peak
9	4976.00	42.43	-31.57	74.00	31.16	61.17	8.60	58.50	---	---	Peak
10	6932.00	46.62	-27.38	74.00	34.96	60.35	10.96	59.65	---	---	Peak
11	8646.00	49.20	-24.80	74.00	37.29	59.83	11.86	59.78	---	---	Peak
12	10792.00	50.54	-23.46	74.00	39.78	56.52	13.35	59.11	---	---	Peak
13	11386.00	50.47	-23.53	74.00	39.57	55.73	13.81	58.64	---	---	Peak
14	17840.00	48.65	-25.35	74.00	45.38	42.88	18.64	58.25	---	---	Peak
15	29388.00	50.76	-23.24	74.00	40.50	40.23	24.79	54.76	100	0	Peak

Mode :	Mode 5	Temperature :	21~22°C
Test Engineer :	Johnny Hsieh	Relative Humidity :	45~46%
Test Distance :	3m	Polarization :	Vertical
Remark :	#6 is system simulator signal which can be ignored.		

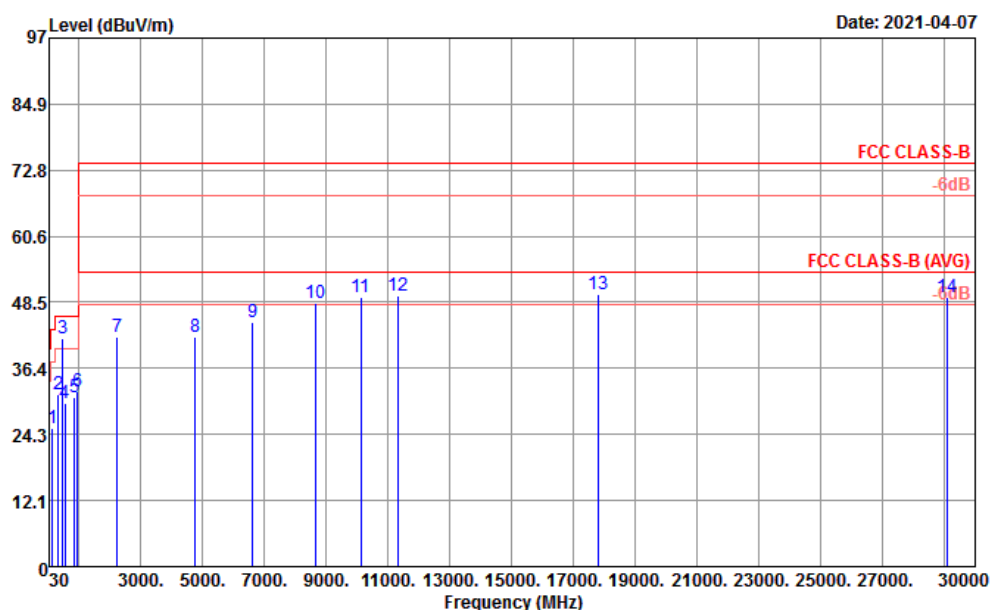


Site : 03CH10-HY
 Condition : FCC CLASS-B 3m SHF HORN BBHA9170009 VERTICAL
 Project : 132425
 Power : 120Vac/60Hz
 Mode : 5

	Freq	Level	Over	Limit	Antenna	Read	Cable	Preamp	A/Pos	T/Pos	Remark
	MHz	dBuV/m	Limit	dB	Line	Level	Loss	Factor	cm	deg	
1	42.61	31.26	-8.74	40.00	18.07	45.08	0.75	32.64	100	0	Peak
2	99.84	28.98	-14.52	43.50	16.00	44.43	1.14	32.59	---	---	Peak
3	158.04	31.93	-11.57	43.50	16.63	46.42	1.42	32.54	---	---	Peak
4	764.29	29.71	-16.29	46.00	28.61	30.38	3.12	32.40	---	---	Peak
5	858.38	30.85	-15.15	46.00	29.26	30.30	3.29	32.00	---	---	Peak
6	881.50	41.66			28.90	41.29	3.33	31.86	---	---	Peak
7	946.65	32.18	-13.82	46.00	30.51	29.46	3.47	31.26	---	---	Peak
8	2406.00	40.47	-33.53	74.00	27.39	65.50	5.68	58.10	---	---	Peak
9	4382.00	42.23	-31.77	74.00	30.10	62.38	8.18	58.43	---	---	Peak
10	6962.00	45.82	-28.18	74.00	35.05	59.37	11.06	59.66	---	---	Peak
11	8660.00	50.09	-23.91	74.00	37.34	60.68	11.87	59.80	---	---	Peak
12	10806.00	50.48	-23.52	74.00	39.82	56.39	13.36	59.09	---	---	Peak
13	11450.00	50.32	-23.68	74.00	39.65	55.43	13.87	58.63	---	---	Peak
14	14735.00	50.28	-23.72	74.00	41.53	50.66	16.51	58.42	---	---	Peak
15	25404.00	50.88	-23.12	74.00	38.89	42.25	23.14	53.40	100	0	Peak



Mode :	Mode 6	Temperature :	21~22°C
Test Engineer :	Johnny Hsieh	Relative Humidity :	45~46%
Test Distance :	3m	Polarization :	Horizontal

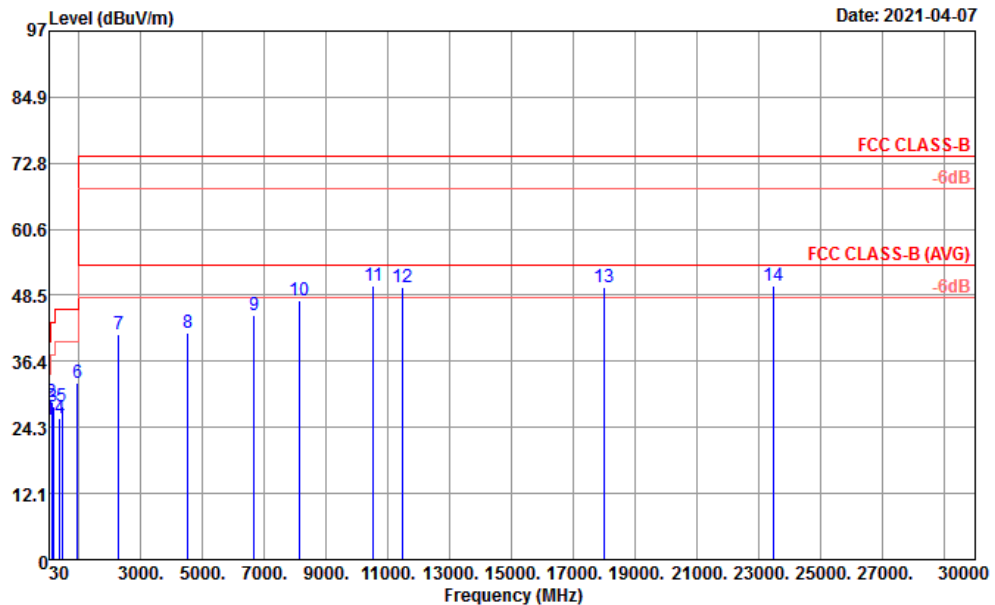


Site : 03CH10-HY
Condition : FCC CLASS-B 3m SHF HORN BBHA9170009 HORIZONTAL
Project : 132425
Power : From System
Mode : 6
: SD to NB

	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	137.67	25.44	-18.06	43.50	17.32	39.36	1.32	32.56	---	---	Peak
2	333.61	31.56	-14.44	46.00	19.85	42.08	2.04	32.41	---	---	Peak
3	480.08	41.96	-4.04	46.00	23.55	48.39	2.46	32.44	100	0	Peak
4	531.49	30.05	-15.95	46.00	23.91	36.03	2.59	32.48	---	---	Peak
5	852.56	31.13	-14.87	46.00	29.27	30.61	3.28	32.03	---	---	Peak
6	944.71	32.20	-13.80	46.00	30.42	29.60	3.47	31.29	---	---	Peak
7	2234.00	42.15	-31.85	74.00	27.83	67.01	5.50	58.19	---	---	Peak
8	4762.00	42.15	-31.85	74.00	31.00	61.08	8.52	58.45	---	---	Peak
9	6616.00	44.96	-29.04	74.00	34.27	59.69	10.53	59.53	---	---	Peak
10	8644.00	48.33	-25.67	74.00	37.29	58.96	11.86	59.78	---	---	Peak
11	10116.00	49.45	-24.55	74.00	38.86	58.09	12.81	60.31	---	---	Peak
12	11314.00	49.68	-24.32	74.00	39.43	55.14	13.76	58.65	---	---	Peak
13	17810.00	49.97	-24.03	74.00	44.87	44.71	18.61	58.22	100	0	Peak
14	29112.00	49.45	-24.55	74.00	40.39	39.28	24.62	54.84	---	---	Peak



Mode :	Mode 6	Temperature :	21~22°C
Test Engineer :	Johnny Hsieh	Relative Humidity :	45~46%
Test Distance :	3m	Polarization :	Vertical



Site : 03CH10-HY
Condition : FCC CLASS-B 3m SHF HORN BBHA9170009 VERTICAL
Project : 132425
Power : From System
Mode : 6
: SD to NB

	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	39.70	25.71	-14.29	40.00	19.65	37.98	0.72	32.64	100	0	Peak
2	123.12	28.99	-14.51	43.50	17.44	42.88	1.24	32.57	---	---	Peak
3	172.59	28.20	-15.30	43.50	15.40	43.84	1.48	32.52	---	---	Peak
4	365.62	25.89	-20.11	46.00	20.72	35.42	2.14	32.39	---	---	Peak
5	454.86	28.07	-17.93	46.00	23.21	34.91	2.37	32.42	---	---	Peak
6	956.35	32.48	-13.52	46.00	30.96	29.19	3.49	31.16	---	---	Peak
7	2286.00	41.34	-32.66	74.00	27.73	66.21	5.56	58.16	---	---	Peak
8	4528.00	41.56	-32.44	74.00	30.46	61.28	8.22	58.40	---	---	Peak
9	6666.00	44.88	-29.12	74.00	34.23	59.67	10.53	59.55	---	---	Peak
10	8128.00	47.53	-26.47	74.00	36.94	58.37	11.58	59.36	---	---	Peak
11	10526.00	50.17	-23.83	74.00	39.50	57.19	13.14	59.66	---	---	Peak
12	11442.00	49.95	-24.05	74.00	39.64	55.08	13.86	58.63	---	---	Peak
13	17980.00	49.87	-24.13	74.00	48.16	41.38	18.74	58.41	---	---	Peak
14	23472.00	50.18	-23.82	74.00	39.21	42.30	22.17	53.50	100	0	Peak

—THE END—