



FCC EMI TEST REPORT

FCC ID : PY7-11643I
Equipment : GSM/WCDMA/LTE Phone with BT, DTS/UNII
a/b/g/n/ac, 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

The product was received on Mar. 26, 2019 and testing was started from Jun. 13, 2019 and completed on Jun. 19, 2019. 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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.

Approved by: Jones Tsai

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issued Date
FC932518-03	01	Initial issue of report	Jun. 28, 2019
FC932518-03	02	Add the remark description.	Jul. 16, 2019

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 14.50 dB at 0.501 MHz
3.2	15.109	Radiated Emission	Pass	Under limit 8.71 dB at 30.000 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: Louis Wu

Report Producer: Wii Chang

1. General Description

1.1. Product Feature of Equipment Under Test

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

Product Specification subjective to this standard	
Antenna Type	WWAN: Loop Antenna WLAN: Inverted-F Antenna Bluetooth: Inverted-F Antenna GPS/Glonass/Galileo/ BDS: Loop Antenna NFC: Loop Antenna

EUT Information List			
HW Version	SW Version	S/N	Performed Test Item
A	0.92	BH93003TGP	Conducted Emission Radiated Emission

Accessory List	
AC Adapter	Model Name : UCH20
	S/N: 1116W37712313
Earphone	Model Name.: STH40D
	S/N : N/A
USB Cable	Model Name.: UCB20
	S/N : N/A
Car Charger	Model Name.: AN430
	S/N : 1715A9140008F38

Note:

1. Above EUT list used are electrically identical per declared by manufacturer.
2. 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. .
3. 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
- ♦ 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

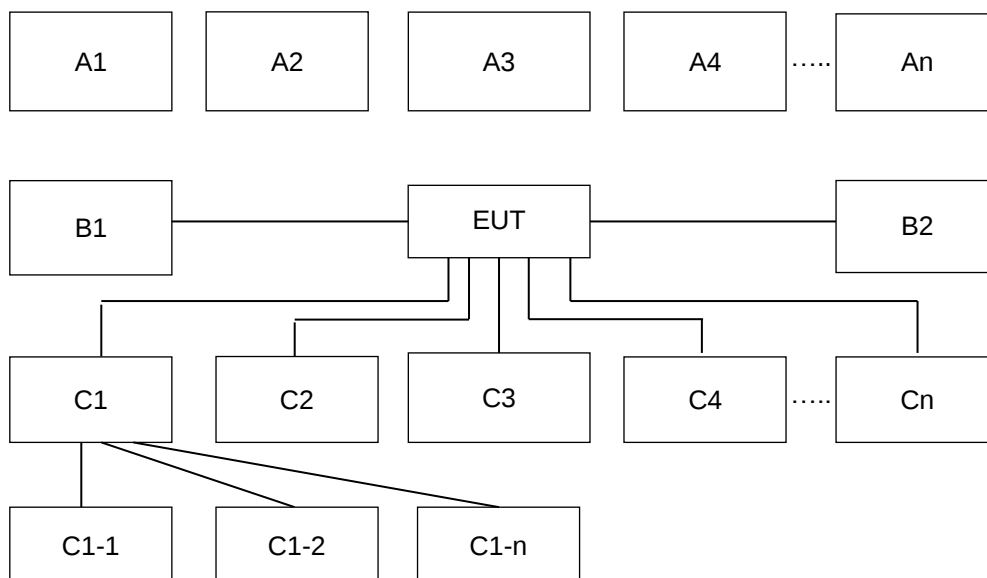
The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

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 (Low Channel) Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + MPEG4 + USB Cable (Charging from Adapter) + Battery + Earphone
	Mode 2: GSM850 (Middle Channel) Idle + Bluetooth Idle + WLAN (5GHz) Idle + GPS Rx + USB Cable (Charging from Adapter) + Battery + Earphone
	Mode 3: GSM850 (High Channel) Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + Camera (Front) + USB Cable (Charging from Adapter) + Battery + Earphone
	Mode 4: LTE Band 12 (Low Channel) Idle + Bluetooth Idle + WLAN (5GHz) Idle + Camera (Rear) + USB Cable (Charging from Adapter) + Battery + Earphone
	Mode 5: LTE Band 12 (Middle Channel) Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + NFC On + USB Cable (Charging from Adapter) + Battery + Earphone
	Mode 6: LTE Band 12 (High Channel) Idle + Bluetooth Idle + WLAN (5GHz) Idle + MPEG4 + USB Cable (Charging from Adapter) + Battery + Earphone
	Mode 7: Flight Mode + USB Cable (Data Link with Notebook) + Battery + Earphone
Radiated Emissions	Mode 1: GSM850 (Low Channel) Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + MPEG4 + USB Cable (Charging from Adapter) + Battery + Earphone
	Mode 2: GSM850 (Middle Channel) Idle + Bluetooth Idle + WLAN (5GHz) Idle + GPS Rx + USB Cable (Charging from Adapter) + Battery + Earphone
	Mode 3: GSM850 (High Channel) Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + Camera (Front) + USB Cable (Charging from Car Charger (12Vdc)) + Battery + Earphone
	Mode 4: LTE Band 12 (Low Channel) Idle + Bluetooth Idle + WLAN (5GHz) Idle + Camera (Rear) + USB Cable (Charging from Car Charger (24Vdc)) + Battery + Earphone
	Mode 5: LTE Band 12 (Middle Channel) Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + NFC On + USB Cable (Charging from Adapter) + Battery + Earphone
	Mode 6: LTE Band 12 (High Channel) Idle + Bluetooth Idle + WLAN (5GHz) Idle + MPEG4 + USB Cable (Charging from Adapter) + Battery + Earphone
	Mode 7: Flight Mode + USB Cable (Data Link with Notebook) + Battery + Earphone
Remark: 1. Data Linking with Notebook means data application transferred mode between EUT and Notebook. 2. For LTE band 12 and 17, wider operating range bandwidth covers narrower one.	

2.2. Connection Diagram of Test System



Conduction 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/UMTS/CDMA/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	AC Power Cable	X	X	X	X	X	X	
B2	Power from system	AC Power Cable							X
No.	Setup Peripherals	Connection Type	1	2	3	4	5	6	7
C1	Notebook	USB Cable							X
C1-1	Music Player	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	X
C3	SD card	SD I/O interface without Cable	X	X	X	X	X	X	X

Radiation 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/UMTS/CDMA/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	AC Power Cable	X	X			X	X	
B2	DC : 12V	DC Power Cable			X	X			
B3	Power from system	AC Power Cable							X
No.	Setup Peripherals	Connection Type	1	2	3	4	5	6	7
C1	Notebook	USB cable							X
C1-1	Music Player	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	X
C3	SD card	SD I/O interface without cable	X	X	X	X	X	X	X
C4	Smart Phone	USB Cable			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.	System Simulator	Anritsu	8820C	N/A	N/A	Unshielded, 1.8 m
3.	GPS Station	Pendulum	GSG-54	N/A	N/A	Unshielded, 1.8 m
4.	Bluetooth Earphone	Sony	MW600	PY700A2029	N/A	N/A
5.	Bluetooth Earphone	Sony	SBH82D	PY7-RD0010	N/A	N/A
6.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
7.	Music Player	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A
8.	Notebook	DELL	Latitude E6320	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
9.	Notebook	DELL	Latitude E3340	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
10.	Car Battery	GS	65B24LS	FCC DoC	NA	NA
11.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A
12.	Smart Phone	Sony	NA	NA	NA	NA

2.4. EUT Operation Test Setup

The EUT was in GSM 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
6. The data application (each file size is greater than 30Mbytes) is continuously transferred between the EUT and Notebook connected via USB cable, while Flight mode..

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.

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.

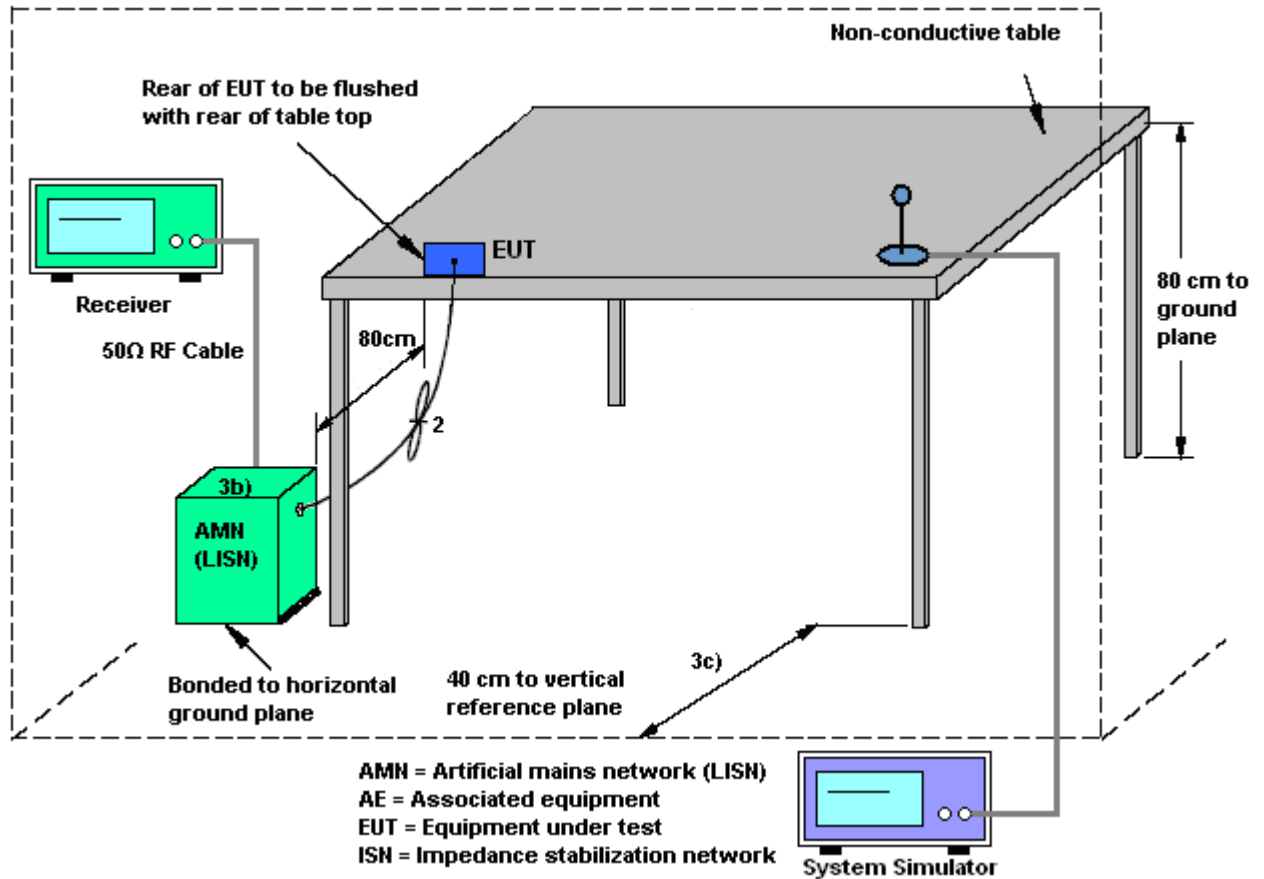
3.1.2 Measuring Instruments

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:

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

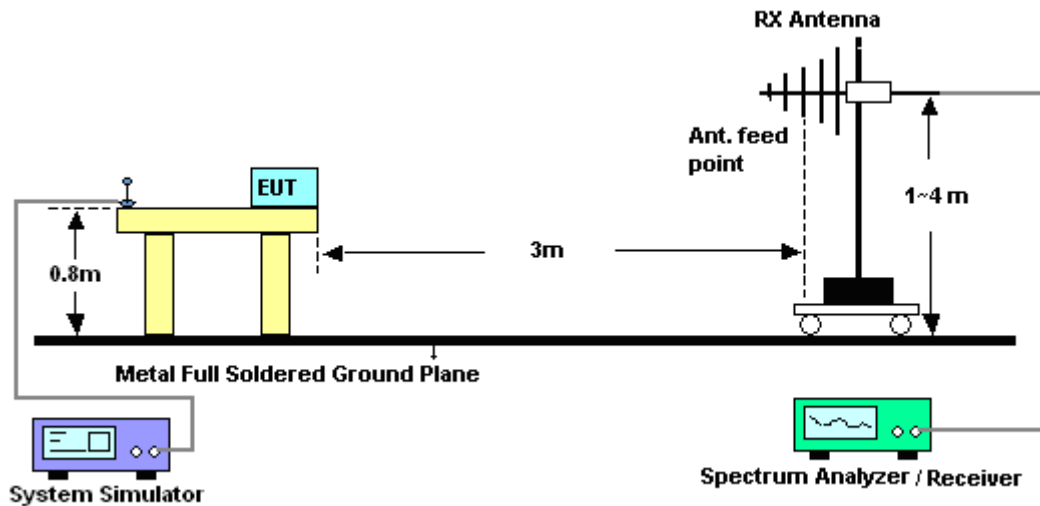
Refer a test equipment and calibration data table in this test report.

3.2.3. Test Procedures

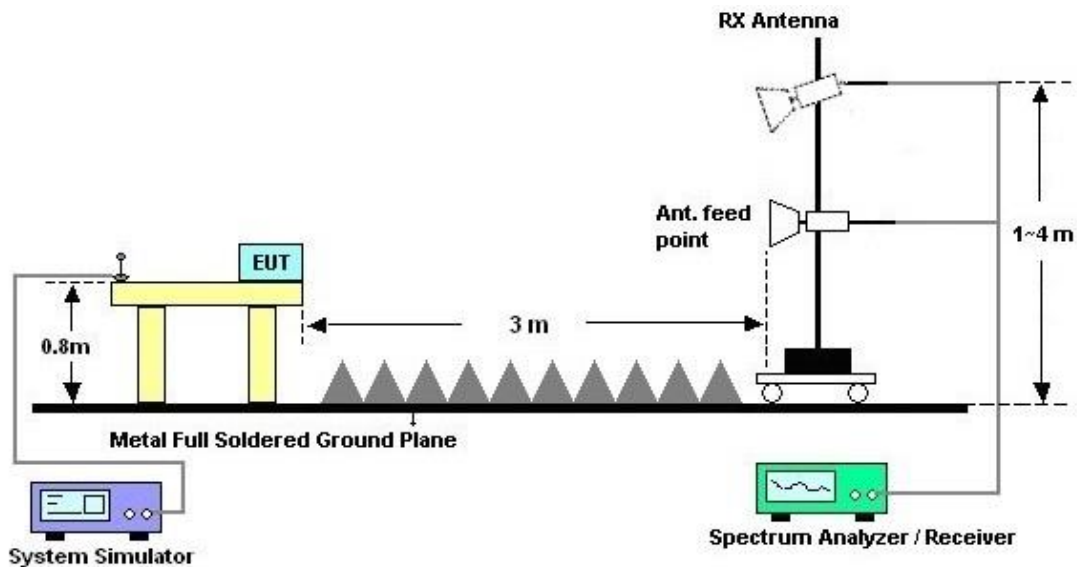
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna 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
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jun. 19, 2019	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9KHz~3.6GHz	Nov. 12, 2018	Jun. 19, 2019	Nov. 11, 2019	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Mar. 19, 2019	Jun. 19, 2019	Mar. 18, 2020	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 14, 2018	Jun. 19, 2019	Nov. 13, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 09, 2018	Jun. 19, 2019	Nov. 08, 2019	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jun. 19, 2019	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Dec. 31, 2018	Jun. 19, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Dec. 31, 2018	Jun. 19, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Amplifier	SONOMA	310N	187311	9kHz~1GHz	Oct. 23, 2018	Jun. 13, 2019~ Jun. 17, 2019	Oct. 22, 2019	Radiation (03CH10-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	35413&02	30MHz~1GHz	Feb. 12, 2019	Jun. 13, 2019~ Jun. 17, 2019	Feb. 11, 2020	Radiation (03CH10-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1325	1GHz ~ 18GHz	Oct. 02, 2018	Jun. 13, 2019~ Jun. 17, 2019	Oct. 01, 2019	Radiation (03CH10-HY)
Preamplifier	Jet-Power	JAP00101800 -30-10P	160118550004	1GHz~18GHz	Apr. 16, 2019	Jun. 13, 2019~ Jun. 17, 2019	Apr. 15, 2020	Radiation (03CH10-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200485	10Hz ~ 44GHz	Nov. 02, 2018	Jun. 13, 2019~ Jun. 17, 2019	Nov. 01, 2019	Radiation (03CH10-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Jun. 13, 2019~ Jun. 17, 2019	N/A	Radiation (03CH10-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Jun. 13, 2019~ Jun. 17, 2019	N/A	Radiation (03CH10-HY)
Turn Table	EMEC	TT 2200	N/A	0~360 Degree	N/A	Jun. 13, 2019~ Jun. 17, 2019	N/A	Radiation (03CH10-HY)
Software	Audix	E3 6.2009-8-24	RK-001042	N/A	N/A	Jun. 13, 2019~ Jun. 17, 2019	N/A	Radiation (03CH10-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	20Hz ~ 8.4GHz	Jan. 19, 2019	Jun. 13, 2019~ Jun. 17, 2019	Jan. 20, 2020	Radiation (03CH10-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
RF Cable	HUBER + SUHNER	SUCOFLEX 104 / 102	MY11692/4PE, MY11693/4PE, MY2855/2	30M-1G	Nov. 08, 2018	Jun. 13, 2019~ Jun. 17, 2019	Nov. 07, 2019	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104 / 102	MY11692/4PE, MY11693/4PE, MY2855/2	1G-18G	Nov. 08, 2018	Jun. 13, 2019~ Jun. 17, 2019	Nov. 07, 2019	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30M~40GHz	Oct. 16, 2018	Jun. 13, 2019~ Jun. 17, 2019	Oct. 15, 2019	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30M~40GHz	Oct. 16, 2018	Jun. 13, 2019~ Jun. 17, 2019	Oct. 15, 2019	Radiation (03CH10-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Dec. 05, 2018	Jun. 13, 2019~ Jun. 17, 2019	Dec. 04, 2019	Radiation (03CH10-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 06, 2018	Jun. 13, 2019~ Jun. 17, 2019	Dec. 05, 2019	Radiation (03CH10-HY)
Filter	Microwave	H1G013G1	SN477215	1.0G High Pass	Nov. 02, 2018	Jun. 13, 2019~ Jun. 17, 2019	Nov. 01, 2019	Radiation (03CH10-HY)
Filter	Wainwright	WLKS1200-8SS	SN3	1.2G Low Pass	Nov. 02, 2018	Jun. 13, 2019~ Jun. 17, 2019	Nov. 01, 2019	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% ($U = 2Uc(y)$)	2.20
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

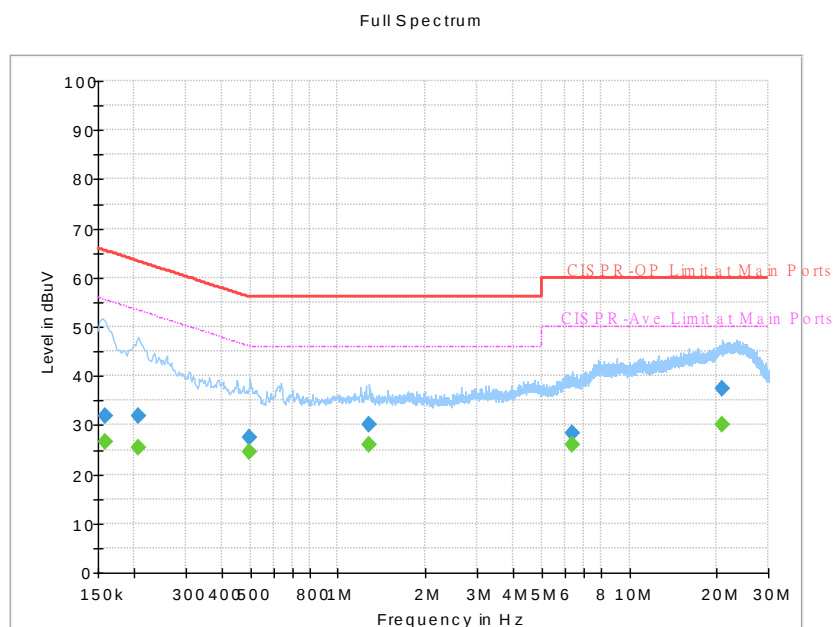
Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.60
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.20
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Appendix A. AC Conducted Emission Test Results

Test Mode :	Mode 1	Temperature :	24~26°C
Test Engineer :	Jimmy Chang	Relative Humidity :	51~53%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

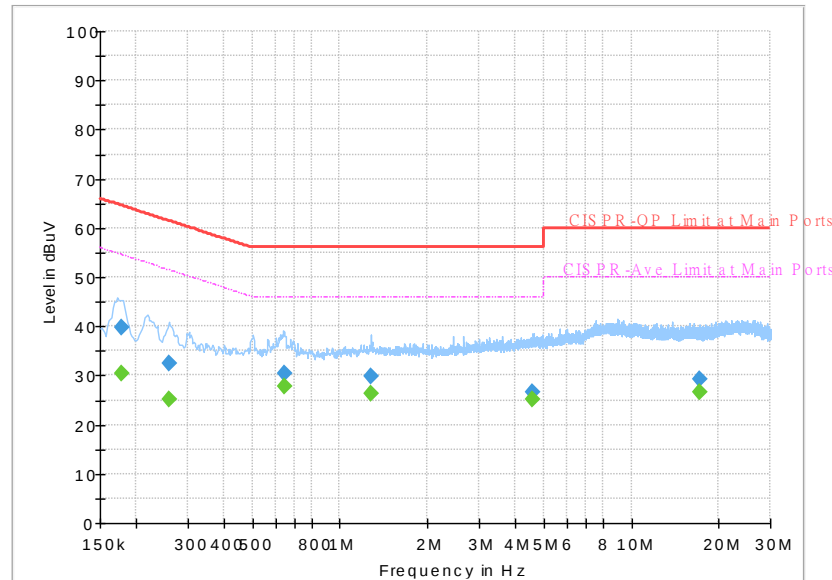


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.159000	---	26.71	55.52	28.81	L1	OFF	19.5
0.159000	31.78	---	65.52	33.74	L1	OFF	19.5
0.206250	---	25.42	53.36	27.94	L1	OFF	19.5
0.206250	31.94	---	63.36	31.42	L1	OFF	19.5
0.496500	---	24.56	46.06	21.50	L1	OFF	19.5
0.496500	27.36	---	56.06	28.70	L1	OFF	19.5
1.281750	---	26.03	46.00	19.97	L1	OFF	19.6
1.281750	30.03	---	56.00	25.97	L1	OFF	19.6
6.366750	---	26.14	50.00	23.86	L1	OFF	19.8
6.366750	28.35	---	60.00	31.65	L1	OFF	19.8
20.895000	---	30.01	50.00	19.99	L1	OFF	20.3
20.895000	37.39	---	60.00	22.61	L1	OFF	20.3

Test Mode :	Mode 1	Temperature :	24~26°C
Test Engineer :	Jimmy Chang	Relative Humidity :	51~53%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

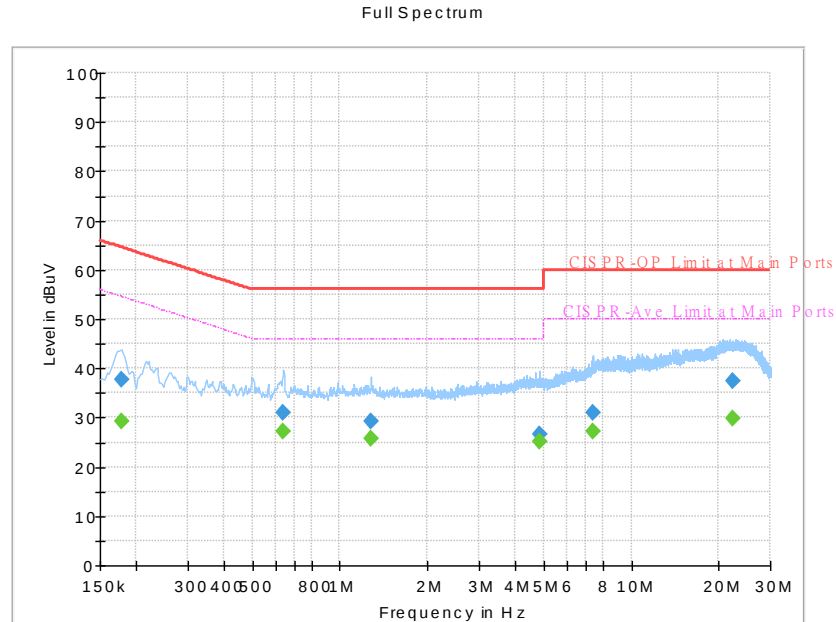
Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.177000	---	30.51	54.63	24.12	N	OFF	19.5
0.177000	39.86	---	64.63	24.77	N	OFF	19.5
0.258000	---	25.24	51.50	26.26	N	OFF	19.5
0.258000	32.34	---	61.50	29.16	N	OFF	19.5
0.642750	---	27.74	46.00	18.26	N	OFF	19.6
0.642750	30.50	---	56.00	25.50	N	OFF	19.6
1.279500	---	26.25	46.00	19.75	N	OFF	19.6
1.279500	29.88	---	56.00	26.12	N	OFF	19.6
4.600500	---	25.06	46.00	20.94	N	OFF	19.7
4.600500	26.52	---	56.00	29.48	N	OFF	19.7
17.081250	---	26.49	50.00	23.51	N	OFF	20.2
17.081250	29.20	---	60.00	30.80	N	OFF	20.2

Test Mode :	Mode 2	Temperature :	24~26°C
Test Engineer :	Jimmy Chang	Relative Humidity :	51~53%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



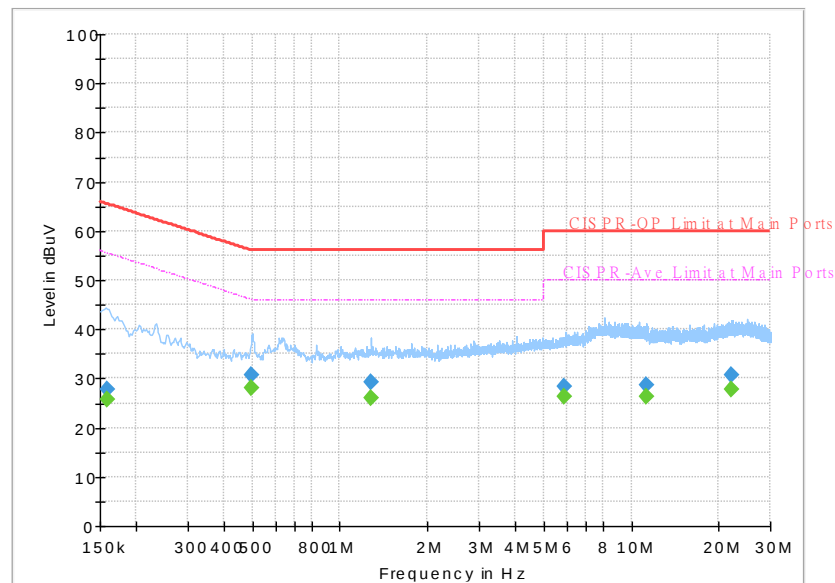
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.177000	---	29.16	54.63	25.47	L1	OFF	19.5
0.177000	37.81	---	64.63	26.82	L1	OFF	19.5
0.638250	---	27.09	46.00	18.91	L1	OFF	19.6
0.638250	31.13	---	56.00	24.87	L1	OFF	19.6
1.277250	---	25.58	46.00	20.42	L1	OFF	19.6
1.277250	29.35	---	56.00	26.65	L1	OFF	19.6
4.823250	---	25.19	46.00	20.81	L1	OFF	19.7
4.823250	26.75	---	56.00	29.25	L1	OFF	19.7
7.406250	---	27.30	50.00	22.70	L1	OFF	19.8
7.406250	30.94	---	60.00	29.06	L1	OFF	19.8
22.276500	---	29.95	50.00	20.05	L1	OFF	20.3
22.276500	37.53	---	60.00	22.47	L1	OFF	20.3



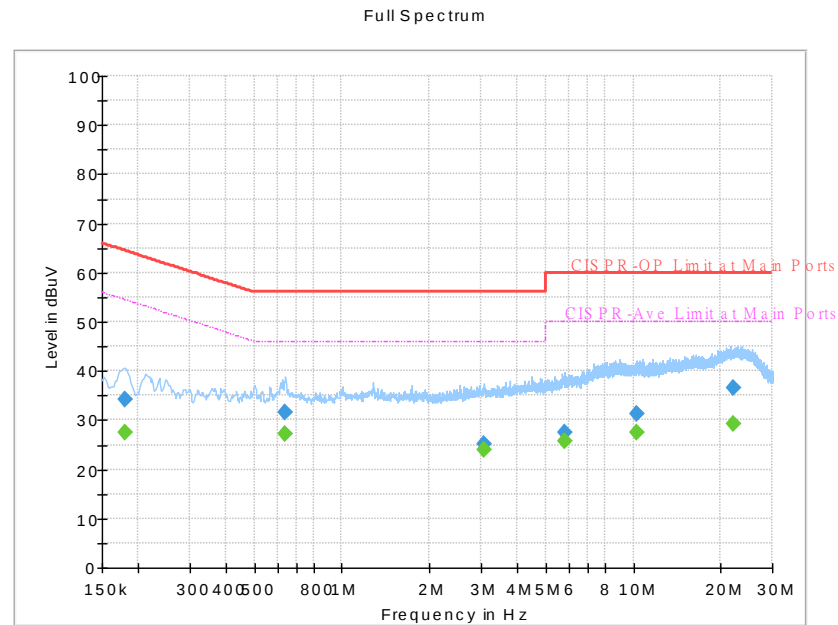
Test Mode :	Mode 2	Temperature :	24~26℃
Test Engineer :	Jimmy Chang	Relative Humidity :	51~53%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

Full Spectrum

**Final Result**

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.159000	---	25.72	55.52	29.80	N	OFF	19.5
0.159000	27.76	---	65.52	37.76	N	OFF	19.5
0.498750	---	27.99	46.02	18.03	N	OFF	19.5
0.498750	30.75	---	56.02	25.27	N	OFF	19.5
1.281750	---	26.01	46.00	19.99	N	OFF	19.6
1.281750	29.17	---	56.00	26.83	N	OFF	19.6
5.878500	---	26.30	50.00	23.70	N	OFF	19.8
5.878500	28.48	---	60.00	31.52	N	OFF	19.8
11.305500	---	26.42	50.00	23.58	N	OFF	20.0
11.305500	28.79	---	60.00	31.21	N	OFF	20.0
21.997500	---	27.87	50.00	22.13	N	OFF	20.4
21.997500	30.78	---	60.00	29.22	N	OFF	20.4

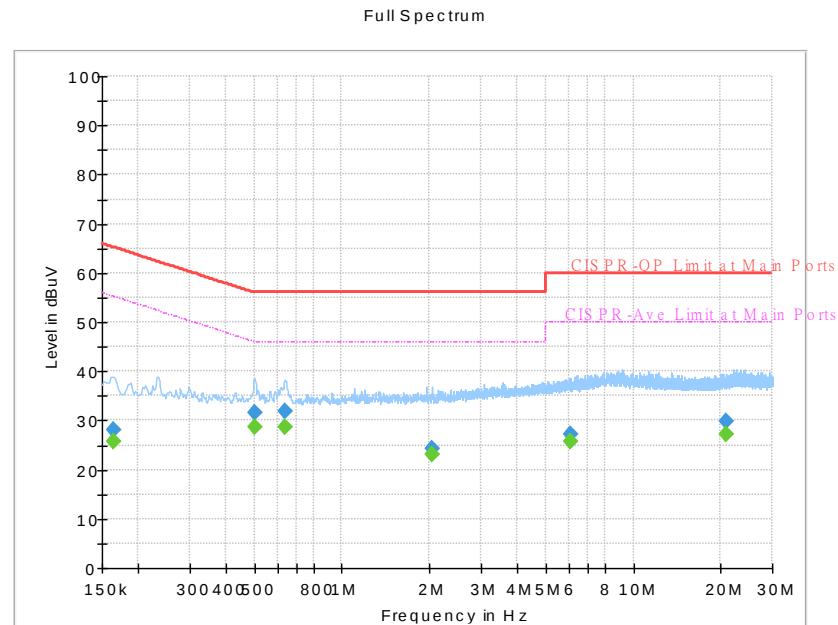
Test Mode :	Mode 3	Temperature :	24~26°C
Test Engineer :	Jimmy Chang	Relative Humidity :	51~53%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.179250	---	27.47	54.52	27.05	L1	OFF	19.5
0.179250	34.21	---	64.52	30.31	L1	OFF	19.5
0.638250	---	27.32	46.00	18.68	L1	OFF	19.6
0.638250	31.68	---	56.00	24.32	L1	OFF	19.6
3.057000	---	24.00	46.00	22.00	L1	OFF	19.6
3.057000	25.15	---	56.00	30.85	L1	OFF	19.6
5.820000	---	25.61	50.00	24.39	L1	OFF	19.8
5.820000	27.38	---	60.00	32.62	L1	OFF	19.8
10.302000	---	27.40	50.00	22.60	L1	OFF	19.9
10.302000	31.31	---	60.00	28.69	L1	OFF	19.9
22.121250	---	29.36	50.00	20.64	L1	OFF	20.3
22.121250	36.41	---	60.00	23.59	L1	OFF	20.3

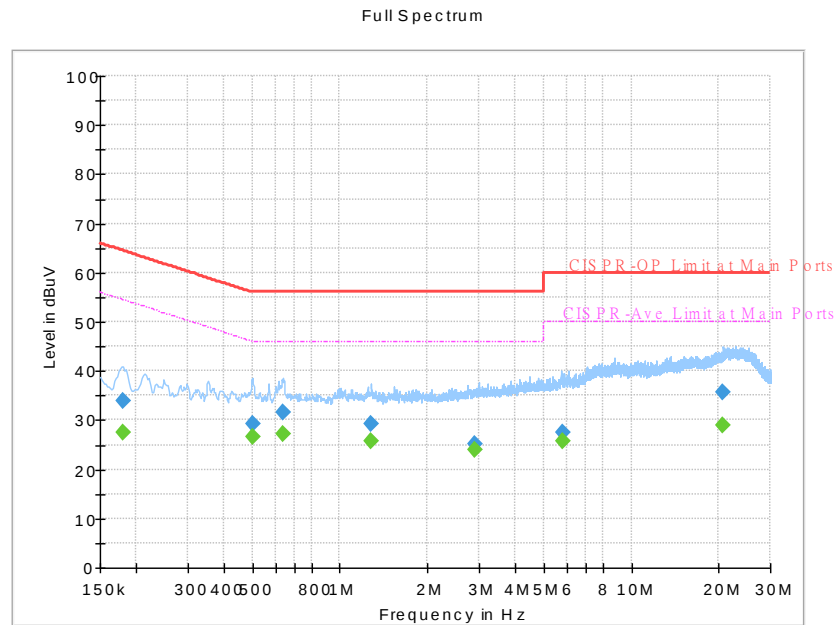
Test Mode :	Mode 3	Temperature :	24~26℃
Test Engineer :	Jimmy Chang	Relative Humidity :	51~53%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.163500	---	25.82	55.28	29.46	N	OFF	19.5
0.163500	28.16	---	65.28	37.12	N	OFF	19.5
0.501000	---	28.73	46.00	17.27	N	OFF	19.5
0.501000	31.46	---	56.00	24.54	N	OFF	19.5
0.636000	---	28.64	46.00	17.36	N	OFF	19.6
0.636000	31.92	---	56.00	24.08	N	OFF	19.6
2.040000	---	23.16	46.00	22.84	N	OFF	19.6
2.040000	24.35	---	56.00	31.65	N	OFF	19.6
6.108000	---	25.64	50.00	24.36	N	OFF	19.8
6.108000	27.33	---	60.00	32.67	N	OFF	19.8
20.859000	---	27.19	50.00	22.81	N	OFF	20.4
20.859000	29.91	---	60.00	30.09	N	OFF	20.4

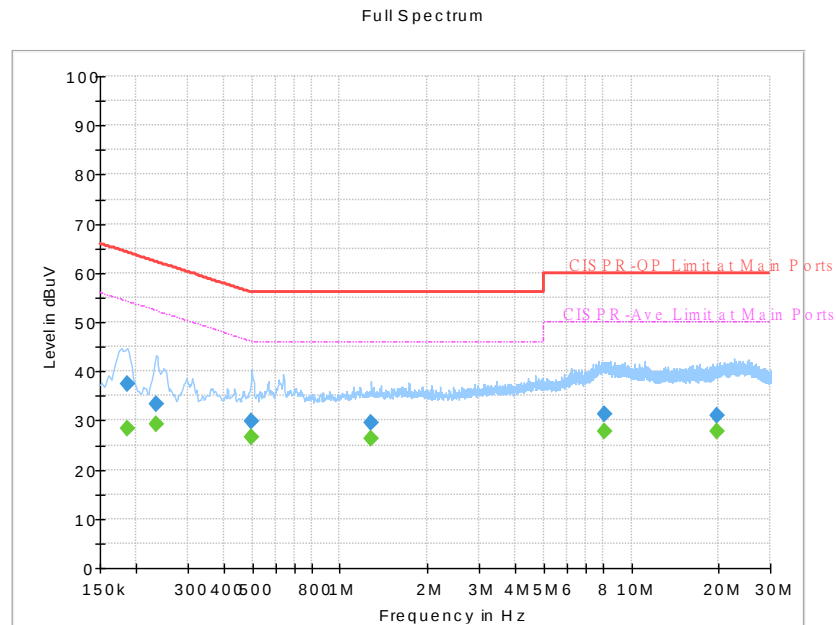
Test Mode :	Mode 4	Temperature :	24~26°C
Test Engineer :	Jimmy Chang	Relative Humidity :	51~53%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Final Result

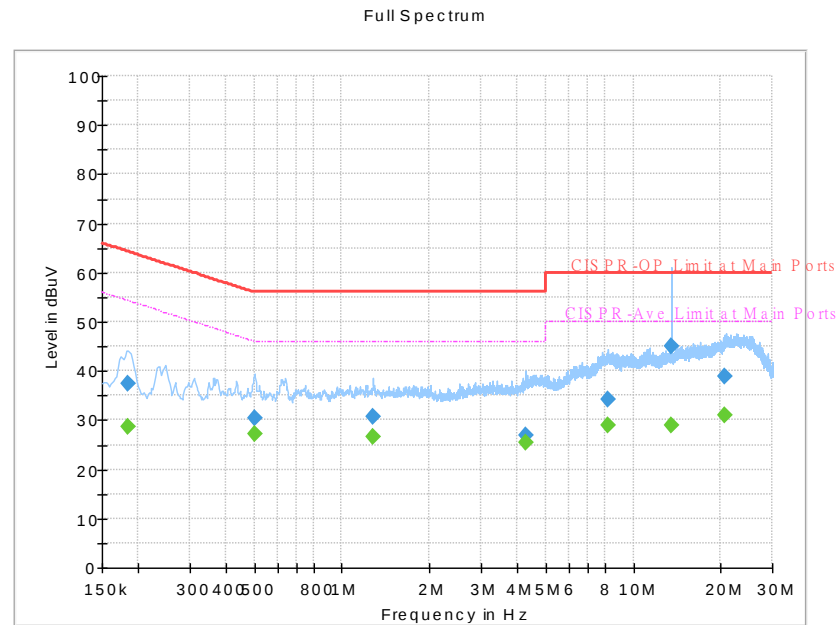
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.179250	---	27.40	54.52	27.12	L1	OFF	19.5
0.179250	34.03	---	64.52	30.49	L1	OFF	19.5
0.501000	---	26.63	46.00	19.37	L1	OFF	19.5
0.501000	29.32	---	56.00	26.68	L1	OFF	19.5
0.638250	---	27.31	46.00	18.69	L1	OFF	19.6
0.638250	31.44	---	56.00	24.56	L1	OFF	19.6
1.281750	---	25.71	46.00	20.29	L1	OFF	19.6
1.281750	29.31	---	56.00	26.69	L1	OFF	19.6
2.897250	---	23.96	46.00	22.04	L1	OFF	19.6
2.897250	25.12	---	56.00	30.88	L1	OFF	19.6
5.835750	---	25.67	50.00	24.33	L1	OFF	19.8
5.835750	27.63	---	60.00	32.37	L1	OFF	19.8
20.715000	---	29.02	50.00	20.98	L1	OFF	20.3
20.715000	35.82	---	60.00	24.18	L1	OFF	20.3

Test Mode :	Mode 4	Temperature :	24~26°C
Test Engineer :	Jimmy Chang	Relative Humidity :	51~53%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		


Final Result

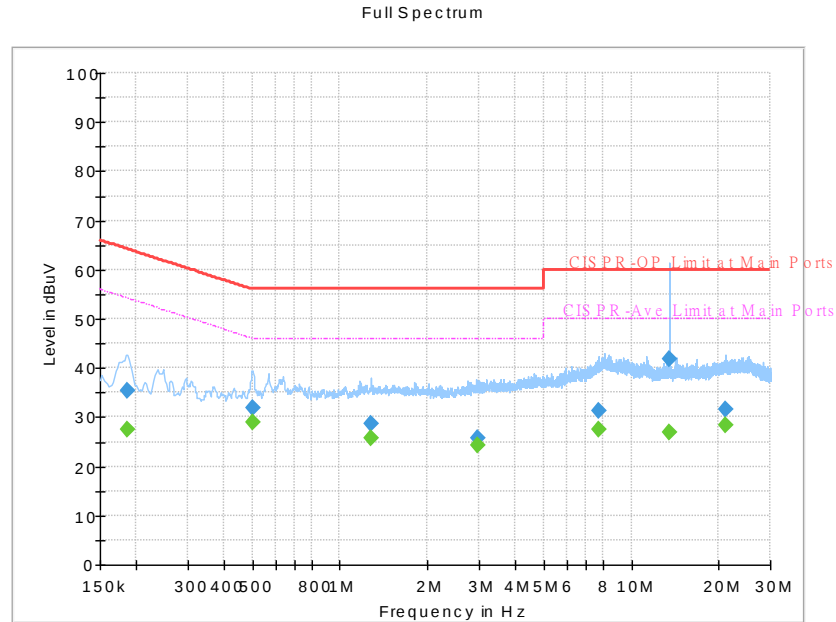
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.186000	---	28.37	54.21	25.84	N	OFF	19.5
0.186000	37.43	---	64.21	26.78	N	OFF	19.5
0.233250	---	29.31	52.33	23.02	N	OFF	19.5
0.233250	33.39	---	62.33	28.94	N	OFF	19.5
0.496500	---	26.67	46.06	19.39	N	OFF	19.5
0.496500	29.90	---	56.06	26.16	N	OFF	19.5
1.281750	---	26.27	46.00	19.73	N	OFF	19.6
1.281750	29.62	---	56.00	26.38	N	OFF	19.6
8.119500	---	27.68	50.00	22.32	N	OFF	19.8
8.119500	31.37	---	60.00	28.63	N	OFF	19.8
19.668750	---	27.71	50.00	22.29	N	OFF	20.3
19.668750	30.94	---	60.00	29.06	N	OFF	20.3

Test Mode :	Mode 5	Temperature :	24~26°C
Test Engineer :	Jimmy Chang	Relative Humidity :	51~53%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		


Final Result

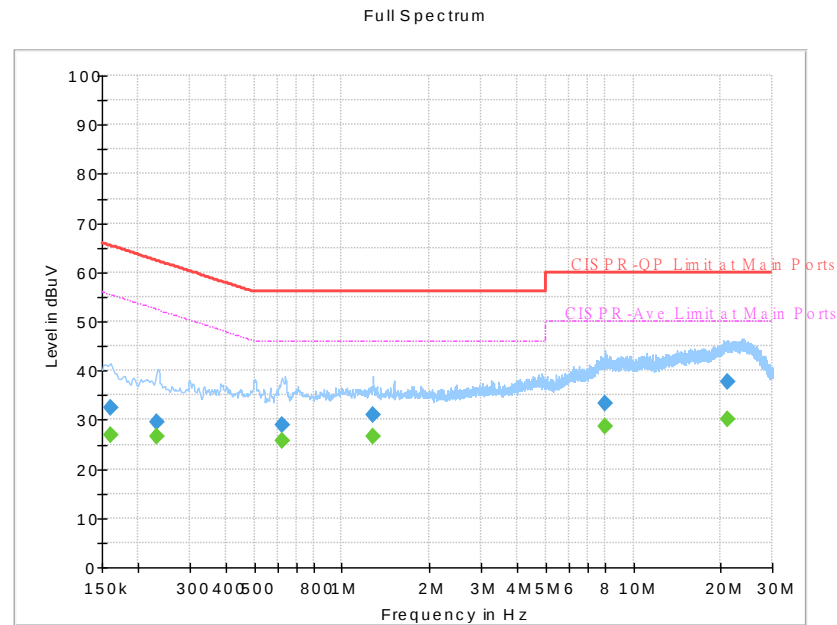
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.183750	---	28.73	54.31	25.58	L1	OFF	19.5
0.183750	37.56	---	64.31	26.75	L1	OFF	19.5
0.501000	---	27.13	46.00	18.87	L1	OFF	19.5
0.501000	30.38	---	56.00	25.62	L1	OFF	19.5
1.281750	---	26.57	46.00	19.43	L1	OFF	19.6
1.281750	30.59	---	56.00	25.41	L1	OFF	19.6
4.294500	---	25.32	46.00	20.68	L1	OFF	19.7
4.294500	27.03	---	56.00	28.97	L1	OFF	19.7
8.151000	---	28.97	50.00	21.03	L1	OFF	19.8
8.151000	34.23	---	60.00	25.77	L1	OFF	19.8
13.560000	---	28.95	50.00	21.05	L1	OFF	20.0
13.560000	45.10	---	60.00	14.90	L1	OFF	20.0
20.544000	---	30.95	50.00	19.05	L1	OFF	20.3
20.544000	38.85	---	60.00	21.15	L1	OFF	20.3

Test Mode :	Mode 5	Temperature :	24~26°C
Test Engineer :	Jimmy Chang	Relative Humidity :	51~53%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.186000	---	27.59	54.21	26.62	N	OFF	19.5
0.186000	35.37	---	64.21	28.84	N	OFF	19.5
0.501000	---	28.95	46.00	17.05	N	OFF	19.5
0.501000	31.77	---	56.00	24.23	N	OFF	19.5
1.277250	---	25.60	46.00	20.40	N	OFF	19.6
1.277250	28.71	---	56.00	27.29	N	OFF	19.6
2.976000	---	24.34	46.00	21.66	N	OFF	19.6
2.976000	25.88	---	56.00	30.12	N	OFF	19.6
7.761750	---	27.55	50.00	22.45	N	OFF	19.8
7.761750	31.36	---	60.00	28.64	N	OFF	19.8
13.560000	---	26.91	50.00	23.09	N	OFF	20.1
13.560000	41.77	---	60.00	18.23	N	OFF	20.1
20.996250	---	28.44	50.00	21.56	N	OFF	20.4
20.996250	31.62	---	60.00	28.38	N	OFF	20.4

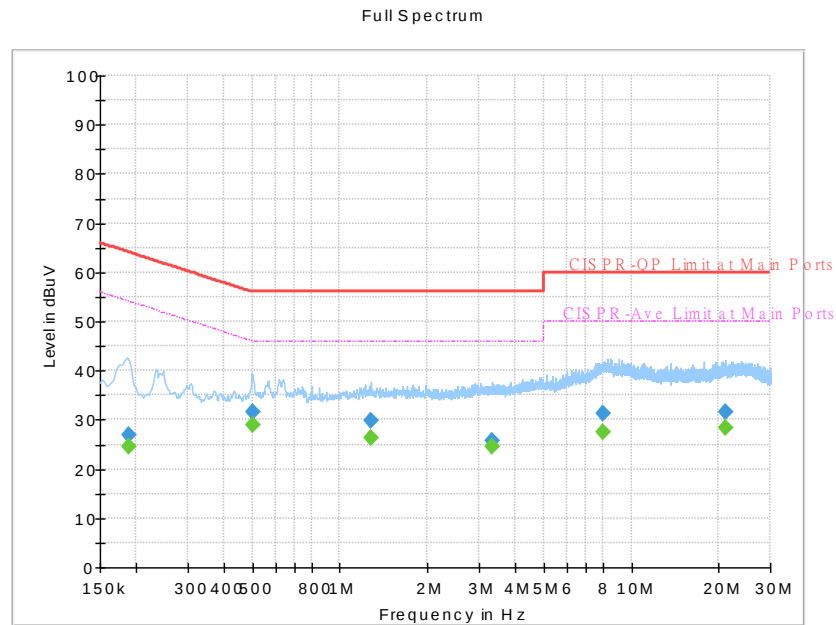
Test Mode :	Mode 6	Temperature :	24~26°C
Test Engineer :	Jimmy Chang	Relative Humidity :	51~53%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.161250	---	27.03	55.40	28.37	L1	OFF	19.5
0.161250	32.37	---	65.40	33.03	L1	OFF	19.5
0.231000	---	26.71	52.41	25.70	L1	OFF	19.5
0.231000	29.66	---	62.41	32.75	L1	OFF	19.5
0.620250	---	25.66	46.00	20.34	L1	OFF	19.6
0.620250	29.06	---	56.00	26.94	L1	OFF	19.6
1.279500	---	26.72	46.00	19.28	L1	OFF	19.6
1.279500	30.96	---	56.00	25.04	L1	OFF	19.6
8.002500	---	28.53	50.00	21.47	L1	OFF	19.8
8.002500	33.23	---	60.00	26.77	L1	OFF	19.8
21.162750	---	30.15	50.00	19.85	L1	OFF	20.3
21.162750	37.60	---	60.00	22.40	L1	OFF	20.3

Test Mode :	Mode 6	Temperature :	24~26°C
Test Engineer :	Jimmy Chang	Relative Humidity :	51~53%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

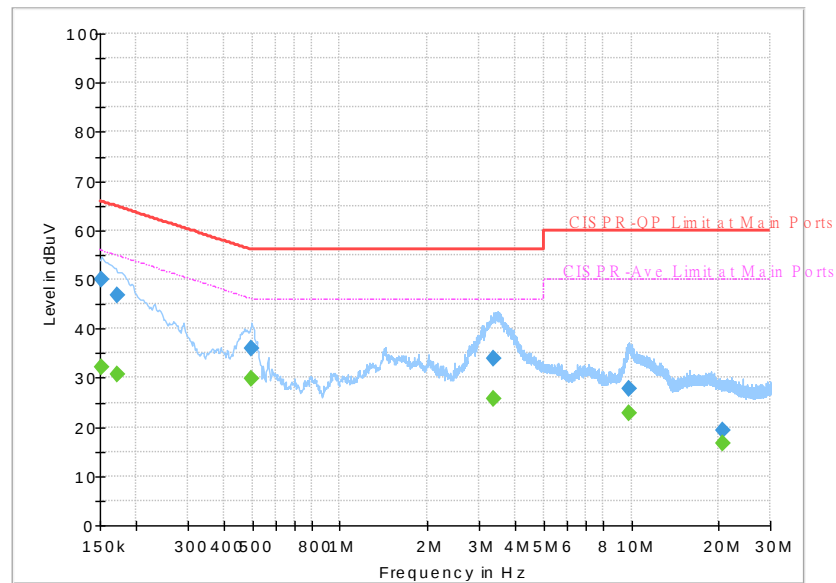


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.188250	---	24.64	54.11	29.47	N	OFF	19.5
0.188250	26.81	---	64.11	37.30	N	OFF	19.5
0.501000	---	28.86	46.00	17.14	N	OFF	19.5
0.501000	31.51	---	56.00	24.49	N	OFF	19.5
1.279500	---	26.37	46.00	19.63	N	OFF	19.6
1.279500	29.87	---	56.00	26.13	N	OFF	19.6
3.342750	---	24.43	46.00	21.57	N	OFF	19.7
3.342750	25.69	---	56.00	30.31	N	OFF	19.7
8.025000	---	27.62	50.00	22.38	N	OFF	19.8
8.025000	31.39	---	60.00	28.61	N	OFF	19.8
21.165000	---	28.40	50.00	21.60	N	OFF	20.4
21.165000	31.56	---	60.00	28.44	N	OFF	20.4

Test Mode :	Mode 7	Temperature :	24~26°C
Test Engineer :	Jimmy Chang	Relative Humidity :	51~53%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

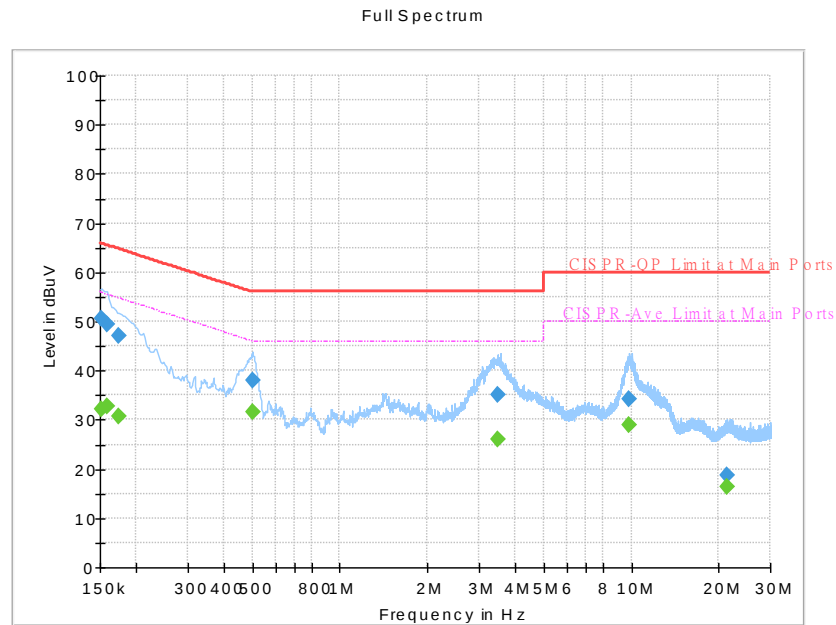
Full Spectrum



Final Result

Frequency	QuasiPeak	CAverage	Limit	Margin	Line	Filter	Corr.
0.152250	---	32.04	55.88	23.84	N	OFF	19.5
0.152250	50.05	---	65.88	15.83	N	OFF	19.5
0.172500	---	30.63	54.84	24.21	N	OFF	19.5
0.172500	46.77	---	64.84	18.07	N	OFF	19.5
0.498750	---	29.79	46.02	16.23	N	OFF	19.5
0.498750	35.93	---	56.02	20.09	N	OFF	19.5
3.354000	---	25.74	46.00	20.26	N	OFF	19.6
3.354000	33.80	---	56.00	22.20	N	OFF	19.6
9.802500	---	22.82	50.00	27.18	N	OFF	19.7
9.802500	27.90	---	60.00	32.10	N	OFF	19.7
20.712750	---	16.66	50.00	33.34	N	OFF	19.9
20.712750	19.18	---	60.00	40.82	N	OFF	19.9

Test Mode :	Mode 7	Temperature :	24~26°C
Test Engineer :	Jimmy Chang	Relative Humidity :	51~53%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

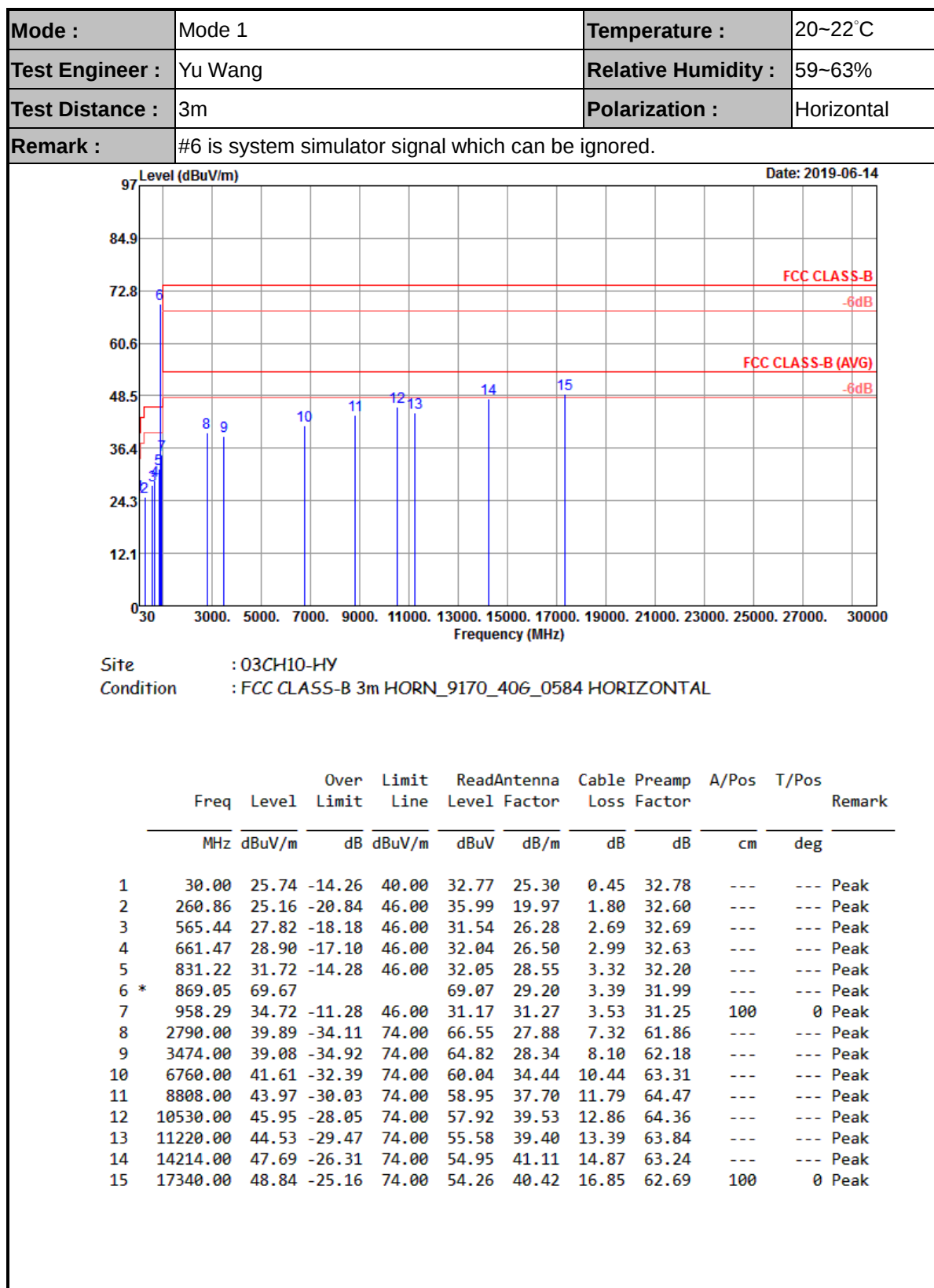


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	32.31	55.88	23.57	L1	OFF	19.5
0.152250	50.69	---	65.88	15.19	L1	OFF	19.5
0.159000	---	32.67	55.52	22.85	L1	OFF	19.5
0.159000	49.51	---	65.52	16.01	L1	OFF	19.5
0.174750	---	30.67	54.73	24.06	L1	OFF	19.5
0.174750	47.16	---	64.73	17.57	L1	OFF	19.5
0.501000	---	31.50	46.00	14.50	L1	OFF	19.5
0.501000	37.87	---	56.00	18.13	L1	OFF	19.5
3.468750	---	25.98	46.00	20.02	L1	OFF	19.6
3.468750	35.15	---	56.00	20.85	L1	OFF	19.6
9.876750	---	28.90	50.00	21.10	L1	OFF	19.7
9.876750	34.09	---	60.00	25.91	L1	OFF	19.7
21.212250	---	16.36	50.00	33.64	L1	OFF	19.8
21.212250	18.76	---	60.00	41.24	L1	OFF	19.8

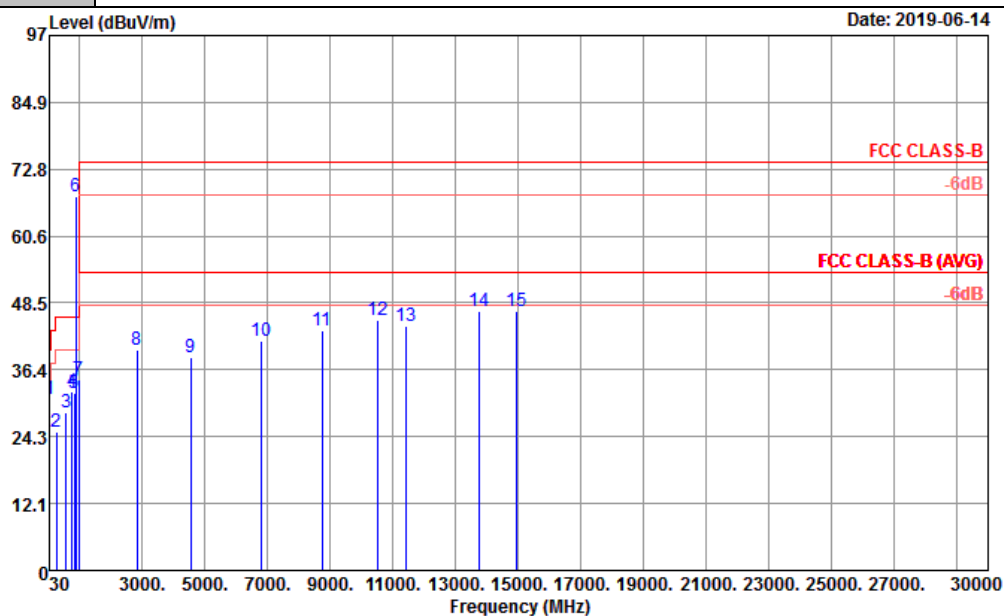


Appendix B. Radiated Emission Test Result





Mode :	Mode 1	Temperature :	20~22°C
Test Engineer :	Yu Wang	Relative Humidity :	59~63%
Test Distance :	3m	Polarization :	Vertical
Remark :	#6 is system simulator signal which can be ignored.		



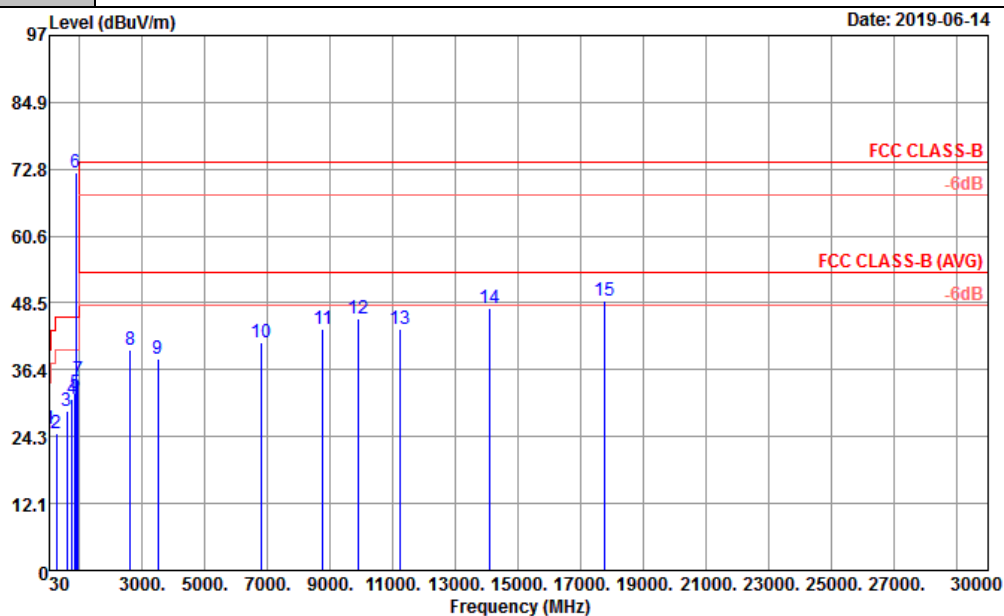
Site : 03CH10-HY

Condition : FCC CLASS-B 3m HORN_9170_40G_0584 VERTICAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	30.00	31.19	-8.81	40.00	38.22	25.30	0.45	32.78	100	0 Peak
2	255.04	25.05	-20.95	46.00	36.66	19.21	1.78	32.60	---	---
3	563.50	28.58	-17.42	46.00	32.28	26.30	2.69	32.69	---	---
4	746.83	32.32	-13.68	46.00	33.40	28.24	3.16	32.48	---	---
5	831.22	32.06	-13.94	46.00	32.39	28.55	3.32	32.20	---	---
6 *	869.05	67.82			67.22	29.20	3.39	31.99	---	---
7	959.26	34.66	-11.34	46.00	31.08	31.29	3.53	31.24	---	---
8	2830.00	39.89	-34.11	74.00	66.35	28.02	7.39	61.87	---	---
9	4546.00	38.59	-35.41	74.00	61.60	30.59	8.70	62.30	---	---
10	6818.00	41.67	-32.33	74.00	59.97	34.60	10.48	63.38	---	---
11	8748.00	43.43	-30.57	74.00	58.54	37.59	11.70	64.40	---	---
12	10530.00	45.51	-28.49	74.00	57.48	39.53	12.86	64.36	---	---
13	11414.00	44.34	-29.66	74.00	55.18	39.50	13.54	63.88	---	---
14	13776.00	47.06	-26.94	74.00	55.27	40.50	14.58	63.29	---	---
15	14922.00	47.06	-26.94	74.00	54.19	40.76	15.24	63.13	100	0 Peak



Mode :	Mode 2	Temperature :	20~22°C
Test Engineer :	Yu Wang	Relative Humidity :	59~63%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#6 is system simulator signal which can be ignored.		



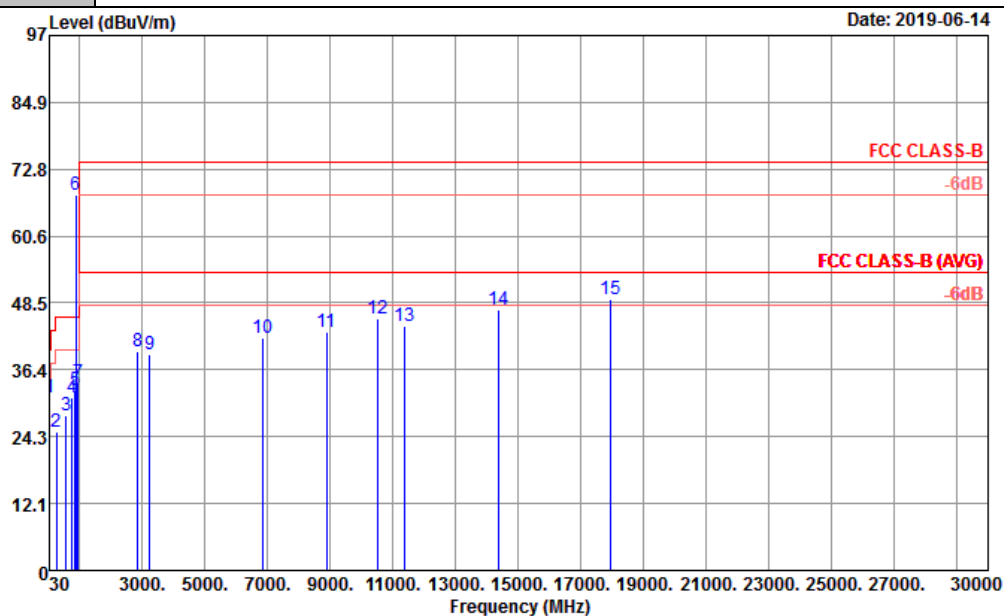
Site : 03CH10-HY

Condition : FCC CLASS-B 3m HORN_9170_406_0584 HORIZONTAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.00	25.76	-14.24	40.00	32.79	25.30	0.45	32.78	---	---	Peak
2	258.92	24.95	-21.05	46.00	35.93	19.83	1.79	32.60	---	---	Peak
3	594.54	28.80	-17.20	46.00	33.06	25.71	2.75	32.72	---	---	Peak
4	750.71	31.02	-14.98	46.00	32.02	28.30	3.17	32.47	---	---	Peak
5	847.71	32.16	-13.84	46.00	31.66	29.25	3.36	32.11	---	---	Peak
6 *	881.66	72.14			71.58	29.07	3.41	31.92	---	---	Peak
7	952.47	34.66	-11.34	46.00	31.35	31.10	3.52	31.31	100	0	Peak
8	2620.00	39.91	-34.09	74.00	67.16	27.38	7.19	61.82	---	---	Peak
9	3508.00	38.41	-35.59	74.00	63.95	28.55	8.11	62.20	---	---	Peak
10	6774.00	41.33	-32.67	74.00	59.70	34.50	10.46	63.33	---	---	Peak
11	8766.00	43.72	-30.28	74.00	58.78	37.63	11.73	64.42	---	---	Peak
12	9884.00	45.60	-28.40	74.00	59.06	39.03	12.29	64.78	---	---	Peak
13	11210.00	43.87	-30.13	74.00	54.93	39.40	13.38	63.84	---	---	Peak
14	14076.00	47.57	-26.43	74.00	54.99	41.00	14.80	63.22	---	---	Peak
15	17766.00	48.99	-25.01	74.00	51.11	43.09	17.18	62.39	100	0	Peak



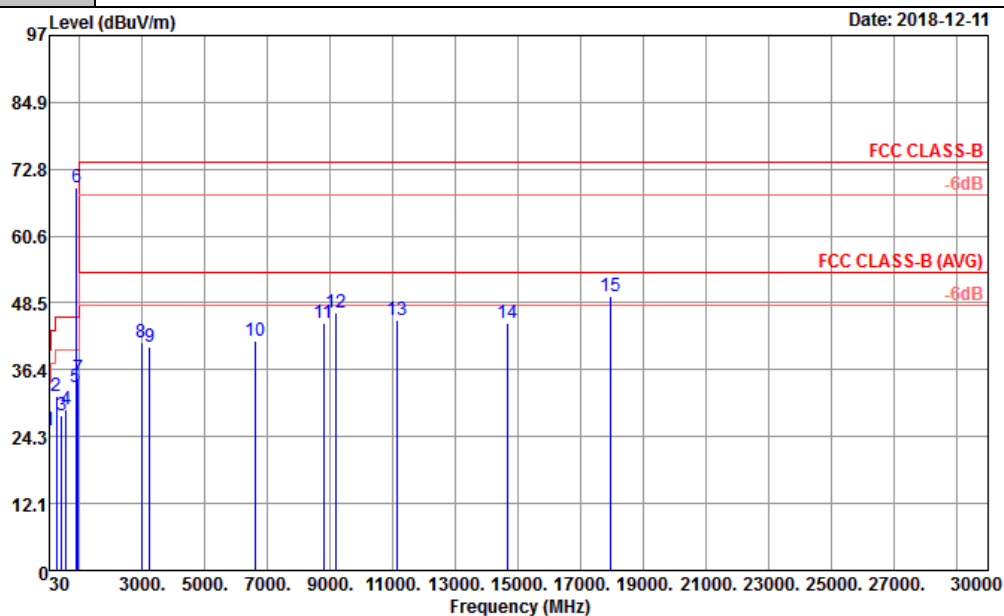
Mode :	Mode 2	Temperature :	20~22°C
Test Engineer :	Yu Wang	Relative Humidity :	59~63%
Test Distance :	3m	Polarization :	Vertical
Remark :	#6 is system simulator signal which can be ignored.		



	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	cm	deg
1	30.00	31.29	-8.71	40.00	38.32	25.30	0.45	32.78	100	0 Peak
2	257.95	25.21	-20.79	46.00	36.35	19.67	1.79	32.60	---	---
3	558.65	28.17	-17.83	46.00	31.99	26.19	2.68	32.69	---	---
4	749.74	31.42	-14.58	46.00	32.43	28.29	3.17	32.47	---	---
5	856.44	32.60	-13.40	46.00	32.01	29.27	3.38	32.06	---	---
6 *	881.66	68.12			67.56	29.07	3.41	31.92	---	---
7	951.50	34.16	-11.84	46.00	30.91	31.06	3.51	31.32	---	---
8	2856.00	39.83	-34.17	74.00	66.14	28.11	7.45	61.87	---	---
9	3238.00	39.08	-34.92	74.00	64.72	28.45	7.95	62.04	---	---
10	6862.00	42.21	-31.79	74.00	60.48	34.70	10.46	63.43	---	---
11	8892.00	43.35	-30.65	74.00	58.57	37.53	11.82	64.57	---	---
12	10518.00	45.76	-28.24	74.00	57.77	39.52	12.85	64.38	---	---
13	11382.00	44.30	-29.70	74.00	55.19	39.48	13.51	63.88	---	---
14	14376.00	47.32	-26.68	74.00	54.44	41.20	14.96	63.28	---	---
15	17958.00	49.23	-24.77	74.00	47.53	46.69	17.33	62.32	100	0 Peak



Mode :	Mode 3	Temperature :	20~22°C
Test Engineer :	Yu Wang	Relative Humidity :	59~63%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#6 is system simulator signal which can be ignored.		



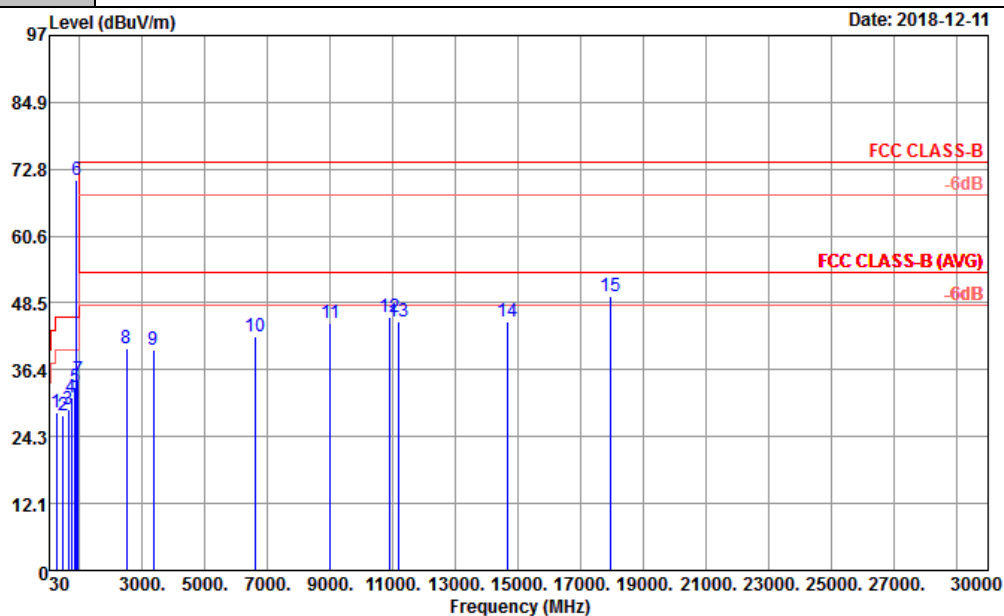
Site : 03CH10-HY

Condition : FCC CLASS-B 3m HORN_9170_406_0584 HORIZONTAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.00	25.38	-14.62	40.00	32.41	25.30	0.45	32.78	---	---	Peak
2	264.74	31.61	-14.39	46.00	42.59	19.81	1.81	32.60	---	---	Peak
3	411.21	28.13	-17.87	46.00	36.20	22.25	2.30	32.62	---	---	Peak
4	573.20	29.26	-16.74	46.00	33.21	26.04	2.71	32.70	---	---	Peak
5	870.99	33.24	-12.76	46.00	32.62	29.20	3.40	31.98	---	---	Peak
6 *	893.30	69.55			69.09	28.90	3.42	31.86	---	---	Peak
7	943.74	34.88	-11.12	46.00	32.25	30.52	3.50	31.39	100	0	Peak
8	2974.00	41.31	-32.69	74.00	67.15	28.35	7.70	61.89	---	---	Peak
9	3230.00	40.62	-33.38	74.00	66.24	28.48	7.94	62.04	---	---	Peak
10	6596.00	41.71	-32.29	74.00	60.19	34.39	10.25	63.12	---	---	Peak
11	8790.00	44.93	-29.07	74.00	59.63	37.68	11.77	64.45	---	---	Peak
12	9186.00	46.70	-27.30	74.00	60.92	38.24	11.86	64.70	---	---	Peak
13	11152.00	45.40	-28.60	74.00	56.15	39.50	13.34	63.83	---	---	Peak
14	14670.00	44.77	-29.23	74.00	51.09	41.34	15.57	63.23	---	---	Peak
15	17965.00	49.84	-24.16	74.00	46.65	46.86	18.64	62.31	100	0	Peak



Mode :	Mode 3	Temperature :	20~22°C
Test Engineer :	Yu Wang	Relative Humidity :	59~63%
Test Distance :	3m	Polarization :	Vertical
Remark :	#6 is system simulator signal which can be ignored.		



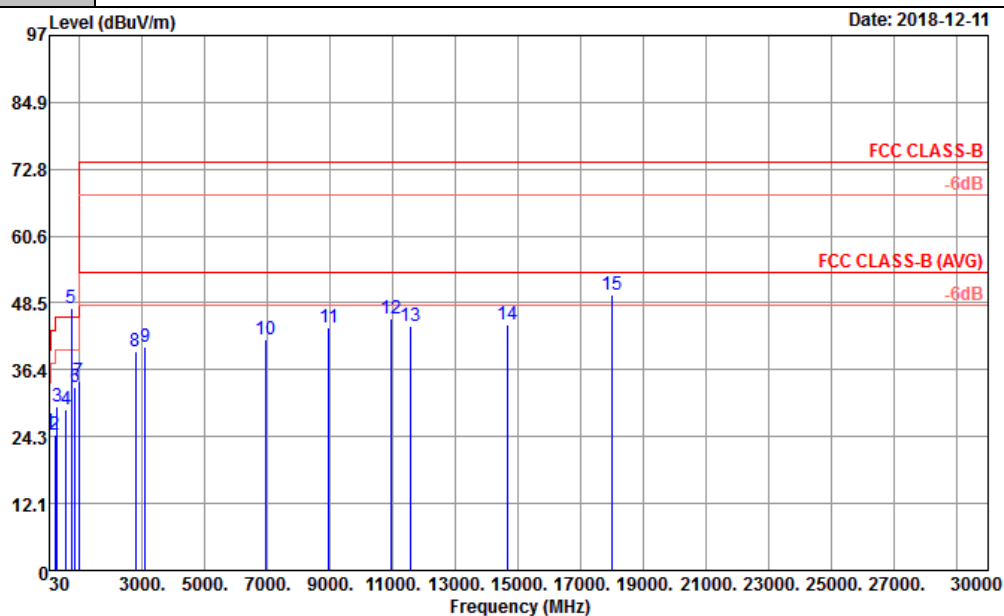
Site : 03CH10-HY

Condition : FCC CLASS-B 3m HORN_9170_40G_0584 VERTICAL

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	cm	deg
			dB	dBuV/m	dBuV	dB/m	dB	dB		
1	266.68	28.59	-17.41	46.00	39.87	19.50	1.82	32.60	---	Peak
2	468.44	28.11	-17.89	46.00	34.92	23.37	2.45	32.63	---	Peak
3	632.37	29.23	-16.77	46.00	32.45	26.55	2.90	32.67	---	Peak
4	740.04	31.24	-14.76	46.00	32.49	28.10	3.14	32.49	---	Peak
5	859.35	33.27	-12.73	46.00	32.72	29.21	3.38	32.04	---	Peak
6 *	893.30	70.84			70.38	28.90	3.42	31.86	---	Peak
7	950.53	34.60	-11.40	46.00	31.39	31.02	3.51	31.32	100	0 Peak
8	2506.00	40.25	-33.75	74.00	67.79	27.21	7.05	61.80	---	Peak
9	3356.00	39.92	-34.08	74.00	65.96	28.01	8.06	62.11	---	Peak
10	6610.00	42.53	-31.47	74.00	61.01	34.38	10.27	63.13	---	Peak
11	9000.00	44.98	-29.02	74.00	60.43	37.40	11.85	64.70	---	Peak
12	10916.00	45.85	-28.15	74.00	56.57	40.02	13.16	63.90	---	Peak
13	11184.00	45.07	-28.93	74.00	56.12	39.43	13.36	63.84	---	Peak
14	14680.00	45.18	-28.82	74.00	51.47	41.36	15.58	63.23	---	Peak
15	17960.00	49.66	-24.34	74.00	46.61	46.74	18.63	62.32	100	0 Peak



Mode :	Mode 4	Temperature :	20~22°C
Test Engineer :	Yu Wang	Relative Humidity :	59~63%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#5 is system simulator signal which can be ignored.		



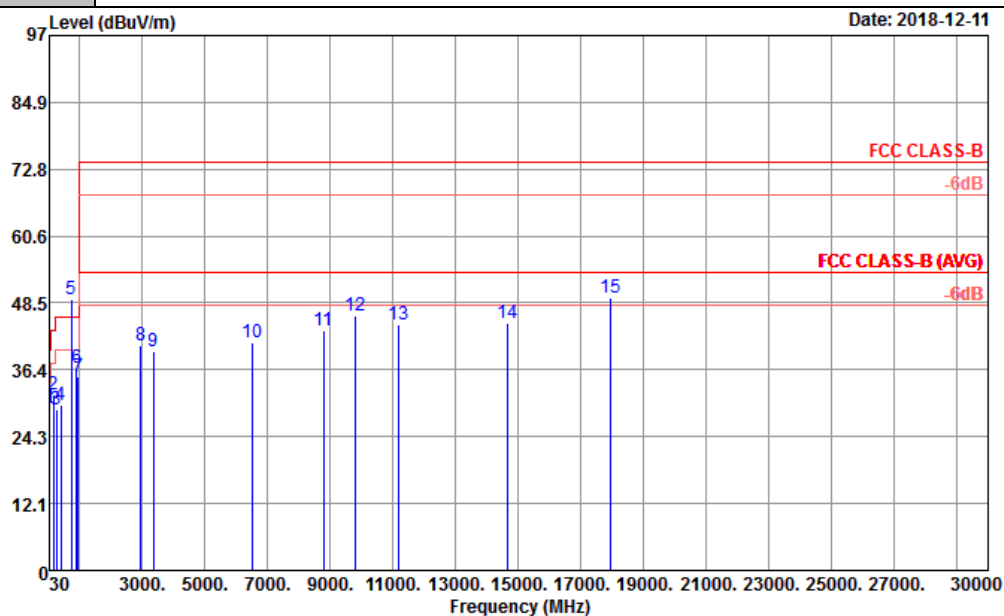
Site : 03CH10-HY

Condition : FCC CLASS-B 3m HORN_9170_406_0584 HORIZONTAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.00	25.02	-14.98	40.00	32.05	25.30	0.45	32.78	---	---	Peak
2	206.54	24.62	-18.88	43.50	40.49	15.20	1.52	32.59	---	---	Peak
3	282.20	29.61	-16.39	46.00	41.45	18.89	1.88	32.61	---	---	Peak
4	559.62	29.10	-16.90	46.00	32.84	26.27	2.68	32.69	---	---	Peak
5 *	733.25	47.58			49.13	27.83	3.12	32.50	---	---	Peak
6	850.62	33.30	-12.70	46.00	32.72	29.30	3.37	32.09	---	---	Peak
7	959.26	34.34	-11.66	46.00	30.76	31.29	3.53	31.24	100	0	Peak
8	2770.00	39.66	-34.34	74.00	66.36	27.84	7.31	61.85	---	---	Peak
9	3088.00	40.49	-33.51	74.00	65.96	28.65	7.83	61.95	---	---	Peak
10	6944.00	41.89	-32.11	74.00	59.83	35.18	10.41	63.53	---	---	Peak
11	8962.00	43.94	-30.06	74.00	59.43	37.32	11.84	64.65	---	---	Peak
12	10946.00	45.63	-28.37	74.00	56.26	40.05	13.18	63.86	---	---	Peak
13	11554.00	44.23	-29.77	74.00	55.13	39.39	13.65	63.94	---	---	Peak
14	14635.00	44.52	-29.48	74.00	50.94	41.27	15.56	63.25	---	---	Peak
15	17990.00	49.96	-24.04	74.00	46.12	47.46	18.68	62.30	100	0	Peak



Mode :	Mode 4	Temperature :	20~22°C
Test Engineer :	Yu Wang	Relative Humidity :	59~63%
Test Distance :	3m	Polarization :	Vertical
Remark :	#5 is system simulator signal which can be ignored.		



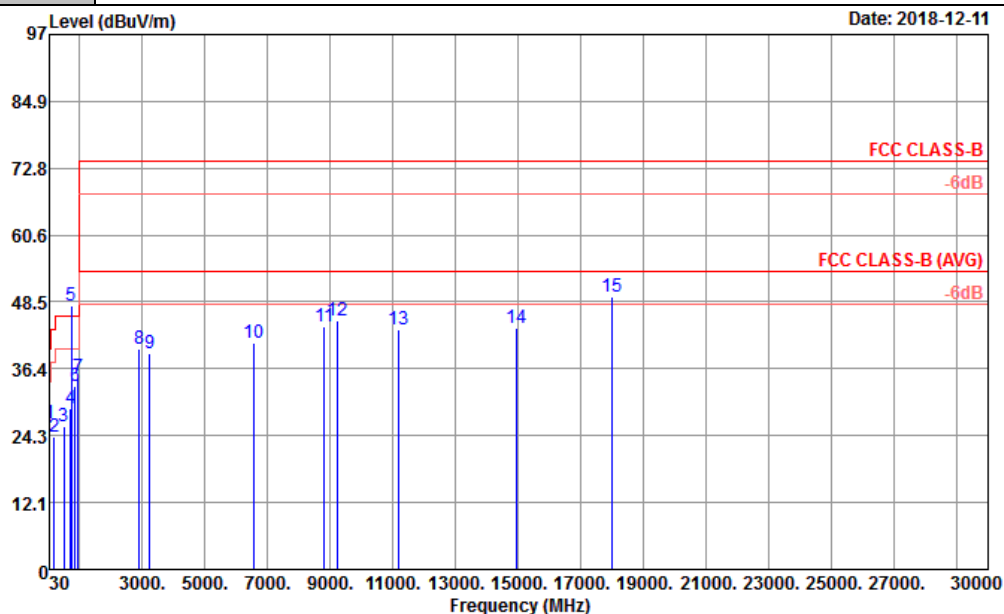
Site : 03CH10-HY

Condition : FCC CLASS-B 3m HORN_9170_40G_0584 VERTICAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Preamp	A/Pos	T/Pos			
					Level Factor	Loss Factor			Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	50.37	29.51	-10.49	40.00	47.53	14.11	0.62	32.75	---	---	Peak
2	156.10	31.75	-11.75	43.50	45.56	17.50	1.32	32.63	---	---	Peak
3	259.89	29.19	-16.81	46.00	40.01	19.98	1.80	32.60	---	---	Peak
4	397.63	29.86	-16.14	46.00	38.47	21.75	2.26	32.62	---	---	Peak
5 *	734.22	49.29			50.79	27.87	3.13	32.50	---	---	Peak
6	892.33	36.78	-9.22	46.00	36.32	28.90	3.42	31.86	100	0	Peak
7	957.32	35.00	-11.00	46.00	31.48	31.25	3.53	31.26	---	---	Peak
8	2948.00	40.92	-33.08	74.00	66.86	28.30	7.65	61.89	---	---	Peak
9	3364.00	39.59	-34.41	74.00	65.61	28.03	8.07	62.12	---	---	Peak
10	6524.00	41.25	-32.75	74.00	59.90	34.25	10.13	63.03	---	---	Peak
11	8790.00	43.55	-30.45	74.00	58.55	37.68	11.77	64.45	---	---	Peak
12	9798.00	46.28	-27.72	74.00	60.07	38.80	12.17	64.76	---	---	Peak
13	11200.00	44.69	-29.31	74.00	55.76	39.40	13.37	63.84	---	---	Peak
14	14660.00	44.79	-29.21	74.00	51.14	41.32	15.57	63.24	---	---	Peak
15	17960.00	49.53	-24.47	74.00	46.48	46.74	18.63	62.32	100	0	Peak



Mode :	Mode 5	Temperature :	20~22°C
Test Engineer :	Yu Wang	Relative Humidity :	59~63%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#5 is system simulator signal which can be ignored.		



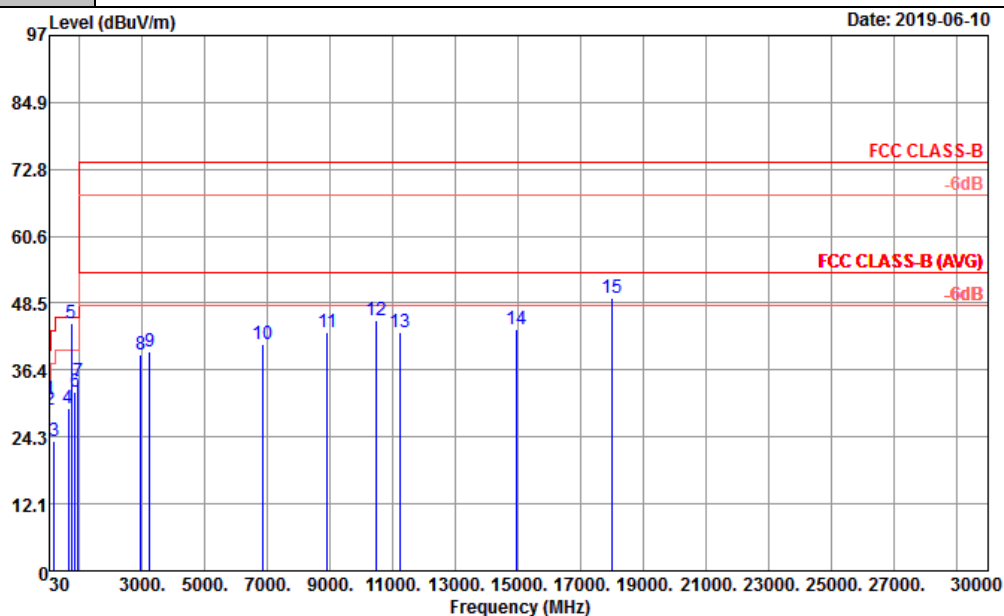
Site : 03CH10-HY

Condition : FCC CLASS-B 3m HORN_9170_406_0584 HORIZONTAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamplifier Loss	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.00	26.36	-13.64	40.00	33.39	25.30	0.45	32.78	---	---	Peak
2	183.26	24.07	-19.43	43.50	40.40	14.80	1.47	32.60	---	---	Peak
3	498.51	26.01	-19.99	46.00	32.33	23.80	2.52	32.64	---	---	Peak
4	705.12	29.11	-16.89	46.00	32.03	26.60	3.04	32.56	---	---	Peak
5 *	735.19	47.93			49.39	27.91	3.13	32.50	---	---	Peak
6	853.53	33.11	-12.89	46.00	32.52	29.30	3.37	32.08	---	---	Peak
7	944.71	34.77	-11.23	46.00	32.07	30.58	3.50	31.38	100	0	Peak
8	2898.00	39.89	-34.11	74.00	66.03	28.20	7.54	61.88	---	---	Peak
9	3234.00	39.14	-34.86	74.00	64.78	28.46	7.94	62.04	---	---	Peak
10	6558.00	41.17	-32.83	74.00	59.73	34.32	10.19	63.07	---	---	Peak
11	8806.00	44.07	-29.93	74.00	59.05	37.70	11.79	64.47	---	---	Peak
12	9206.00	45.13	-28.87	74.00	59.64	38.32	11.87	64.70	---	---	Peak
13	11162.00	43.47	-30.53	74.00	54.48	39.48	13.34	63.83	---	---	Peak
14	14950.00	43.85	-30.15	74.00	50.61	40.70	15.66	63.12	---	---	Peak
15	17975.00	49.35	-24.65	74.00	45.91	47.10	18.65	62.31	100	0	Peak



Mode :	Mode 5	Temperature :	20~22°C
Test Engineer :	Yu Wang	Relative Humidity :	59~63%
Test Distance :	3m	Polarization :	Vertical
Remark :	#5 is system simulator signal which can be ignored.		



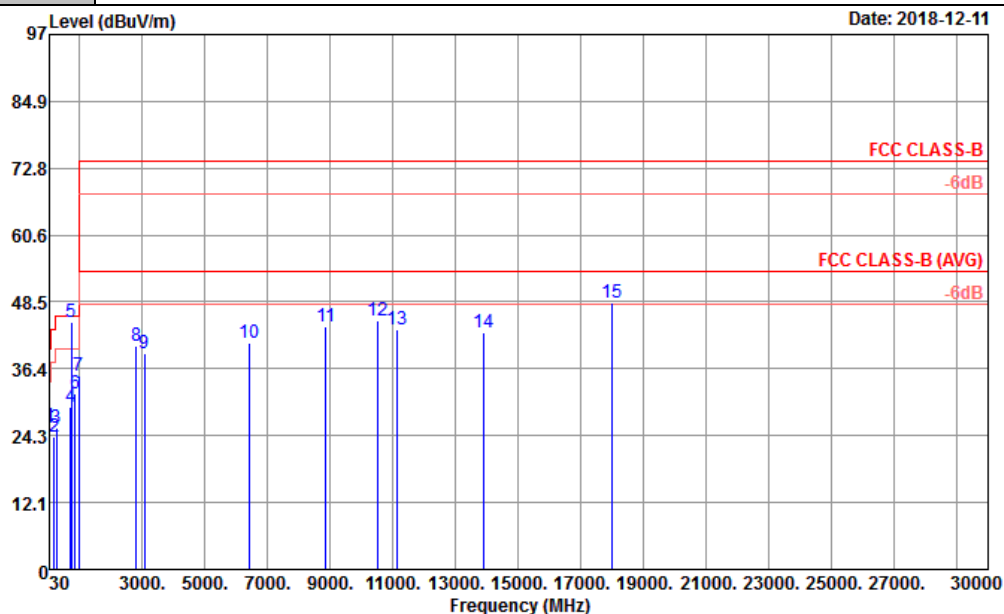
Site : 03CH10-HY

Condition : FCC CLASS-B 3m HORN_9170_40G_0584 VERTICAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.00	31.04	-8.96	40.00	38.07	25.30	0.45	32.78	100	0	Peak
2	38.73	29.07	-10.93	40.00	40.88	20.43	0.53	32.77	---	---	Peak
3	187.14	23.59	-19.91	43.50	39.92	14.80	1.47	32.60	---	---	Peak
4	630.43	29.51	-16.49	46.00	32.78	26.51	2.89	32.67	---	---	Peak
5	737.13	44.87			46.25	27.99	3.13	32.50	---	---	Peak
6	845.77	32.53	-13.47	46.00	32.07	29.22	3.36	32.12	---	---	Peak
7	941.80	34.30	-11.70	46.00	31.80	30.41	3.50	31.41	---	---	Peak
8	2938.00	39.27	-34.73	74.00	65.25	28.28	7.63	61.89	---	---	Peak
9	3244.00	39.73	-34.27	74.00	65.41	28.42	7.95	62.05	---	---	Peak
10	6846.00	41.02	-32.98	74.00	59.38	34.60	10.46	63.42	---	---	Peak
11	8896.00	43.37	-30.63	74.00	58.61	37.52	11.82	64.58	---	---	Peak
12	10458.00	45.52	-28.48	74.00	57.60	39.54	12.81	64.43	---	---	Peak
13	11226.00	43.15	-30.85	74.00	54.21	39.40	13.39	63.85	---	---	Peak
14	14965.00	43.77	-30.23	74.00	50.54	40.67	15.67	63.11	---	---	Peak
15	17980.00	49.46	-24.54	74.00	45.89	47.22	18.66	62.31	100	0	Peak



Mode :	Mode 6	Temperature :	20~22°C
Test Engineer :	Yu Wang	Relative Humidity :	59~63%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#5 is system simulator signal which can be ignored.		



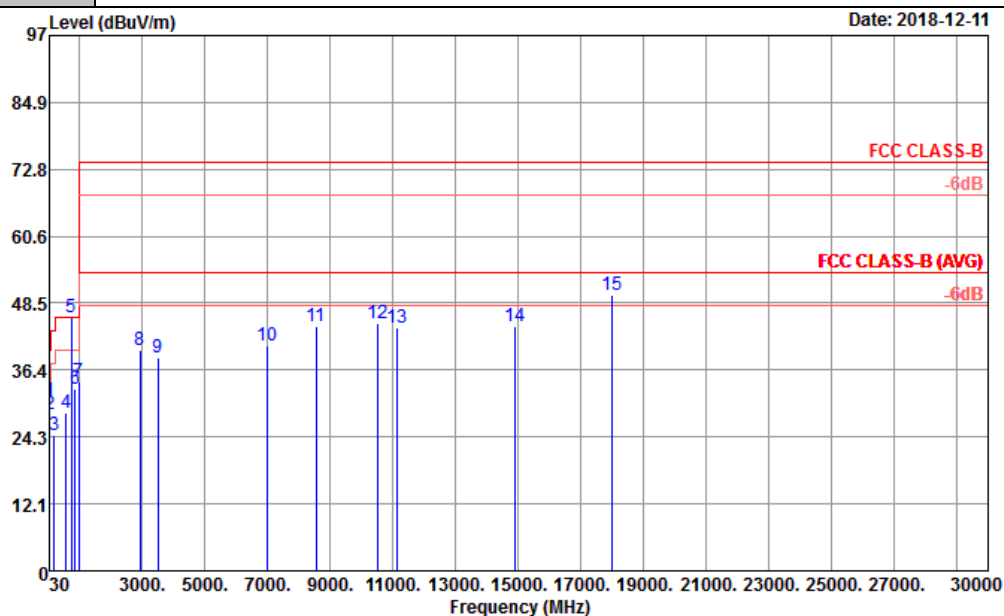
Site : 03CH10-HY

Condition : FCC CLASS-B 3m HORN_9170_406_0584 HORIZONTAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamplifier Loss	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.00	25.95	-14.05	40.00	32.98	25.30	0.45	32.78	---	---	Peak
2	186.17	24.15	-19.35	43.50	40.48	14.80	1.47	32.60	---	---	Peak
3	256.01	25.80	-20.20	46.00	37.26	19.36	1.78	32.60	---	---	Peak
4	706.09	29.35	-16.65	46.00	32.24	26.62	3.05	32.56	---	---	Peak
5	740.04	44.88			46.13	28.10	3.14	32.49	---	---	Peak
6	844.80	31.93	-14.07	46.00	31.50	29.19	3.36	32.12	---	---	Peak
7	959.26	35.18	-10.82	46.00	31.60	31.29	3.53	31.24	100	0	Peak
8	2794.00	40.66	-33.34	74.00	67.30	27.89	7.33	61.86	---	---	Peak
9	3074.00	39.13	-34.87	74.00	64.65	28.60	7.82	61.94	---	---	Peak
10	6418.00	41.05	-32.95	74.00	60.30	33.77	9.96	62.98	---	---	Peak
11	8850.00	43.93	-30.07	74.00	58.94	37.70	11.81	64.52	---	---	Peak
12	10534.00	45.01	-28.99	74.00	56.97	39.53	12.87	64.36	---	---	Peak
13	11142.00	43.56	-30.44	74.00	54.54	39.52	13.33	63.83	---	---	Peak
14	13880.00	42.98	-31.02	74.00	50.51	40.50	15.22	63.25	---	---	Peak
15	17980.00	48.31	-25.69	74.00	44.74	47.22	18.66	62.31	100	0	Peak



Mode :	Mode 6	Temperature :	20~22°C
Test Engineer :	Yu Wang	Relative Humidity :	59~63%
Test Distance :	3m	Polarization :	Vertical
Remark :	#5 is system simulator signal which can be ignored.		



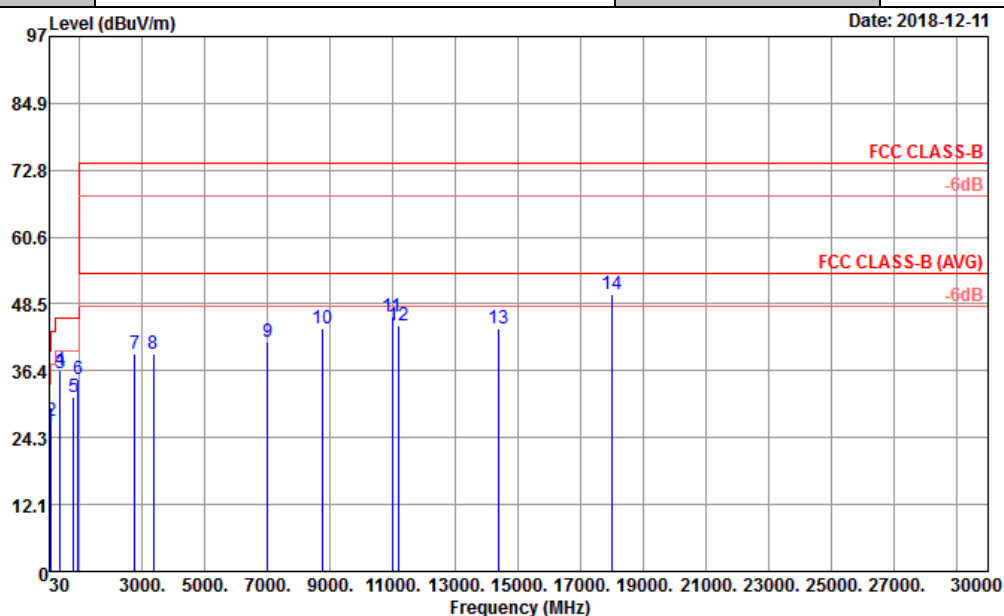
Site : 03CH10-HY

Condition : FCC CLASS-B 3m HORN_9170_40G_0584 VERTICAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.00	30.92	-9.08	40.00	37.95	25.30	0.45	32.78	100	0	Peak
2	39.70	28.37	-11.63	40.00	40.78	19.81	0.55	32.77	---	---	Peak
3	177.44	24.60	-18.90	43.50	40.66	15.10	1.45	32.61	---	---	Peak
4	568.35	28.62	-17.38	46.00	32.44	26.17	2.70	32.69	---	---	Peak
5 *	741.98	46.04	---	---	47.24	28.14	3.15	32.49	---	---	Peak
6	860.32	32.88	-13.12	46.00	32.34	29.20	3.38	32.04	---	---	Peak
7	959.26	34.38	-11.62	46.00	30.80	31.29	3.53	31.24	---	---	Peak
8	2934.00	39.86	-34.14	74.00	65.86	28.27	7.62	61.89	---	---	Peak
9	3492.00	38.52	-35.48	74.00	64.17	28.45	8.10	62.20	---	---	Peak
10	6990.00	40.78	-33.22	74.00	58.62	35.36	10.39	63.59	---	---	Peak
11	8552.00	44.19	-29.81	74.00	59.48	37.00	11.47	64.16	---	---	Peak
12	10512.00	44.79	-29.21	74.00	56.57	39.51	12.85	64.39	---	---	Peak
13	11148.00	43.95	-30.05	74.00	54.95	39.50	13.33	63.83	---	---	Peak
14	14875.00	44.25	-29.75	74.00	50.88	40.88	15.64	63.15	---	---	Peak
15	17980.00	49.99	-24.01	74.00	46.42	47.22	18.66	62.31	100	0	Peak



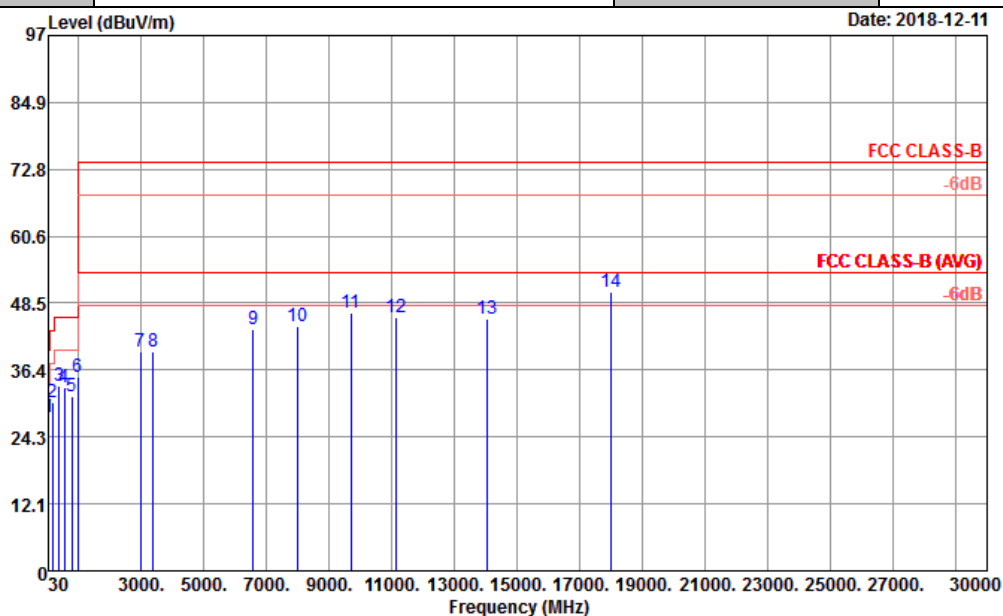
Mode :	Mode 7	Temperature :	20~22°C
Test Engineer :	Yu Wang	Relative Humidity :	59~63%
Test Distance :	3m	Polarization :	Horizontal



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	31.94	26.24	-13.76	40.00	34.44	24.14	0.44	32.78	---	---	Peak
2	89.17	27.30	-16.20	43.50	44.26	14.72	1.01	32.69	---	---	Peak
3	375.32	36.01	-9.99	46.00	45.59	20.91	2.13	32.62	---	---	Peak
4	383.08	36.34	-9.66	46.00	45.62	21.16	2.18	32.62	100	0	Peak
5	794.36	31.51	-14.49	46.00	32.36	28.30	3.23	32.38	---	---	Peak
6	958.29	34.94	-11.06	46.00	31.39	31.27	3.53	31.25	---	---	Peak
7	2768.00	39.54	-34.46	74.00	66.24	27.84	7.31	61.85	---	---	Peak
8	3354.00	39.39	-34.61	74.00	65.43	28.01	8.06	62.11	---	---	Peak
9	6996.00	41.59	-32.41	74.00	59.43	35.38	10.38	63.60	---	---	Peak
10	8772.00	43.93	-30.07	74.00	58.67	37.64	11.74	64.43	---	---	Peak
11	10970.00	46.18	-27.82	74.00	56.50	40.07	13.20	63.84	---	---	Peak
12	11156.00	44.51	-29.49	74.00	55.27	39.49	13.34	63.83	---	---	Peak
13	14395.00	44.07	-29.93	74.00	50.66	41.20	15.49	63.28	---	---	Peak
14	17970.00	50.26	-23.74	74.00	46.94	46.98	18.65	62.31	100	0	Peak



Mode :	Mode 7	Temperature :	20~22°C
Test Engineer :	Yu Wang	Relative Humidity :	59~63%
Test Distance :	3m	Polarization :	Vertical



Site : 03CH10-HY

Condition : FCC CLASS-B 3m HORN_9170_40G_0584 VERTICAL

			Over	Limit	ReadAntenna		Cable	Preamp	A/Pos	T/Pos	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor			Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.00	27.78	-12.22	40.00	34.81	25.30	0.45	32.78	---	---	Peak
2	163.86	30.42	-13.08	43.50	45.57	16.11	1.36	32.62	---	---	Peak
3	376.29	33.49	-12.51	46.00	43.02	20.95	2.14	32.62	---	---	Peak
4	533.43	33.28	-12.72	46.00	39.34	24.00	2.61	32.67	---	---	Peak
5	785.63	31.67	-14.33	46.00	32.55	28.30	3.22	32.40	---	---	Peak
6	959.26	35.08	-10.92	46.00	31.50	31.29	3.53	31.24	100	0	Peak
7	2982.00	39.74	-34.26	74.00	65.56	28.36	7.72	61.90	---	---	Peak
8	3384.00	39.74	-34.26	74.00	65.72	28.07	8.08	62.13	---	---	Peak
9	6578.00	43.78	-30.22	74.00	62.29	34.36	10.22	63.09	---	---	Peak
10	7998.00	44.28	-29.72	74.00	59.16	36.99	11.24	63.60	---	---	Peak
11	9680.00	46.72	-27.28	74.00	60.45	38.60	12.13	64.74	---	---	Peak
12	11146.00	45.95	-28.05	74.00	56.70	39.51	13.33	63.83	---	---	Peak
13	14020.00	45.55	-28.45	74.00	52.60	40.78	15.37	63.20	---	---	Peak
14	17975.00	50.52	-23.48	74.00	47.08	47.10	18.65	62.31	100	0	Peak

————THE END————