



# FCC EMI TEST REPORT

**FCC ID** : PY7-01875J  
**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 Jun. 04, 2019 and testing was started from Jul. 06, 2019 and completed on Jul. 07, 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.)



# Table of Contents

**History of this test report..... 3**

**Summary of Test Result..... 4**

**1. General Description ..... 5**

    1.1. Product Feature of Equipment Under Test ..... 5

    1.2. Modification of EUT ..... 5

    1.3. Test Location..... 6

    1.4. Applicable Standards ..... 6

**2. Test Configuration of Equipment Under Test ..... 7**

    2.1. Test Mode ..... 7

    2.2. Connection Diagram of Test System ..... 8

    2.3. Support Unit used in test configuration and system..... 9

    2.4. EUT Operation Test Setup ..... 10

**3. Test Result ..... 11**

    3.1. Test of AC Conducted Emission Measurement ..... 11

    3.2. Test of Radiated Emission Measurement ..... 13

**4. List of Measuring Equipment..... 15**

**5. Uncertainty of Evaluation..... 17**

**Appendix A. AC Conducted Emission Test Result**

**Appendix B. Radiated Emission Test Result**





### 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 11.98 dB at 0.184 MHz
3.2	15.109	Radiated Emission	Pass	Under limit 3.13 dB at 30.540 MHz for Quasi-Peak

**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	
<b>Antenna Type</b>	WWAN: Loop Antenna WLAN: <Ant. 1>: Loop Antenna <Ant. 2>: Monopole Antenna Bluetooth: Loop Antenna GPS/Glonass/Galileo/ BDS: Loop Antenna NFC: Loop Antenna

EUT Information List			
HW Version	SW Version	S/N	Performed Test Item
A	1.25	BH9300B1H4	Conducted Emission Radiated Emission

Accessory List	
<b>AC Adapter</b>	Model Name : UCH32
	S/N: 6218W30200140 (for radiated emission) 6218W30200197 (for conducted emission)
<b>Earphone</b>	Model Name.: MH750
	S/N : N/A
<b>USB Cable</b>	Model Name.: UCB24
	S/N : N/A
<b>2 in 1 USB Audio Cable</b>	Model Name.: EC270
	S/N : N/A
<b>Car Charger</b>	Model Name.: AN430
	S/N : 1728A9390002A70

**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

<b>Test Site</b>	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory	
<b>Test Site Location</b>	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978	
<b>Test Site No.</b>	<b>Sporton Site No.</b>	
	CO05-HY	03CH06-HY

FCC Designation No.: TW1093

### 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.



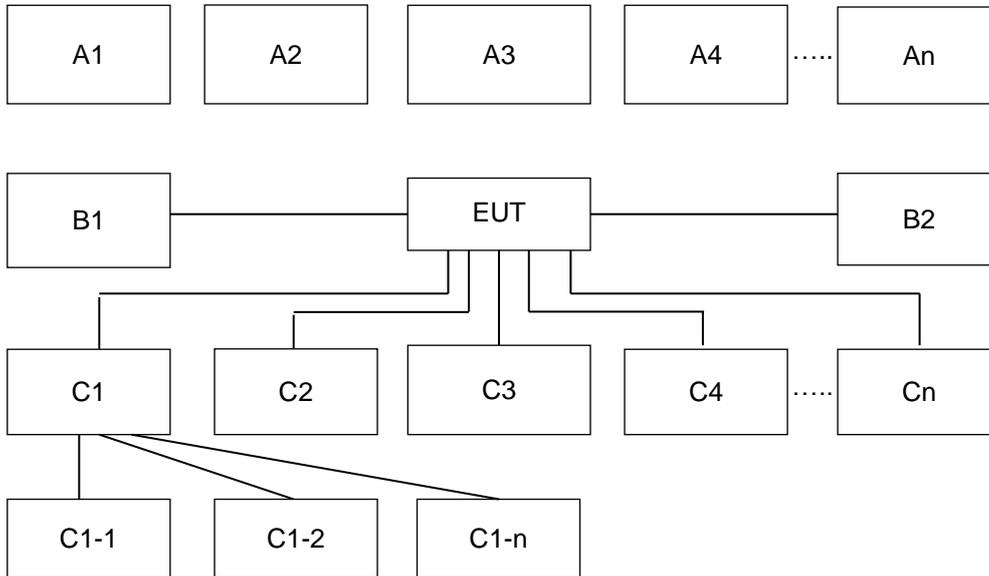
## 2. Test Configuration of Equipment Under Test

### 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
<b>AC Conducted Emission</b>	Mode 1: GSM850 (Middle Channel) Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + MPEG4 + USB Cable (Charging from Adapter) + Battery
	Mode 2: WCDMA Band V (Middle Channel) Idle + Bluetooth Idle + WLAN (5GHz) Idle + MPEG4 + USB Audio Cable + USB Cable (Charging from Adapter) + Battery + Earphone
	Mode 3: LTE Band 12 (Middle Channel) Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + GPS Rx + USB Cable (Charging from Adapter) + Battery
	Mode 4: LTE Band 17 (Middle Channel) Idle + Bluetooth Idle + WLAN (5GHz) Idle + Camera (Front) + USB Audio Cable + USB Cable (Charging from Adapter) + Battery + Earphone
	Mode 5: GSM850 (Low Channel) Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + Camera (Rear) + USB Cable (Charging from Adapter) + Battery
	Mode 6: GSM850 (High Channel) Idle + Bluetooth Idle + WLAN (5GHz) Idle + NFC On + USB Audio Cable + USB Cable (Charging from Adapter) + Battery + Earphone
	Mode 7: Flight Mode + USB Cable (Data Link with Notebook) + Battery
<b>Radiated Emissions</b>	Mode 1: GSM850 (High Channel) Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + MPEG4 + USB Cable (Charging from Adapter) + Battery
	Mode 2: WCDMA Band V (High Channel) Idle + Bluetooth Idle + WLAN (5GHz) Idle + MPEG4 + USB Audio Cable + USB Cable (Charging from Adapter) + Battery + Earphone
	Mode 3: LTE Band 12 (High Channel) Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + GPS Rx + USB Cable (Charging from Adapter) + Battery
	Mode 4: LTE Band 17 (High Channel) Idle + Bluetooth Idle + WLAN (5GHz) Idle + Camera (Front) + USB Audio Cable + USB Cable (Charging from Adapter) + Battery + Earphone
	Mode 5: GSM850 (Low Channel) Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + Camera (Rear) + USB Cable (Charging from Car Charger (12Vdc)) + Battery
	Mode 6: GSM850 (Middle Channel) Idle + Bluetooth Idle + WLAN (5GHz) Idle + NFC On + USB Audio Cable + USB Cable (Charging from Car Charger (24Vdc)) + Battery + Earphone
	Mode 7: Flight Mode + USB Cable (Data Link with Notebook) + Battery
<b>Remark:</b>	
1. Data Linking with Notebook means data application transferred mode between EUT and Notebook.	
2. For radiation emission after pre-scanned the cellular band between 30MHz ~ 960MHz (GSM850/LTE Band 12/17), only the worst case for cellular band test data of this mode was reported.	

## 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	
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/24V	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	
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	R&S	CMU200	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	SBH82D	PY7-RD0010	N/A	N/A
5.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
6.	WLAN AP	ASUS	RT-AC1750	MSQ-RTAC1750	N/A	Unshielded, 1.8 m
7.	Music Player	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A
8.	Notebook	DELL	Latitude E3340	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
9.	Notebook	MSI	MS-16J5	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.

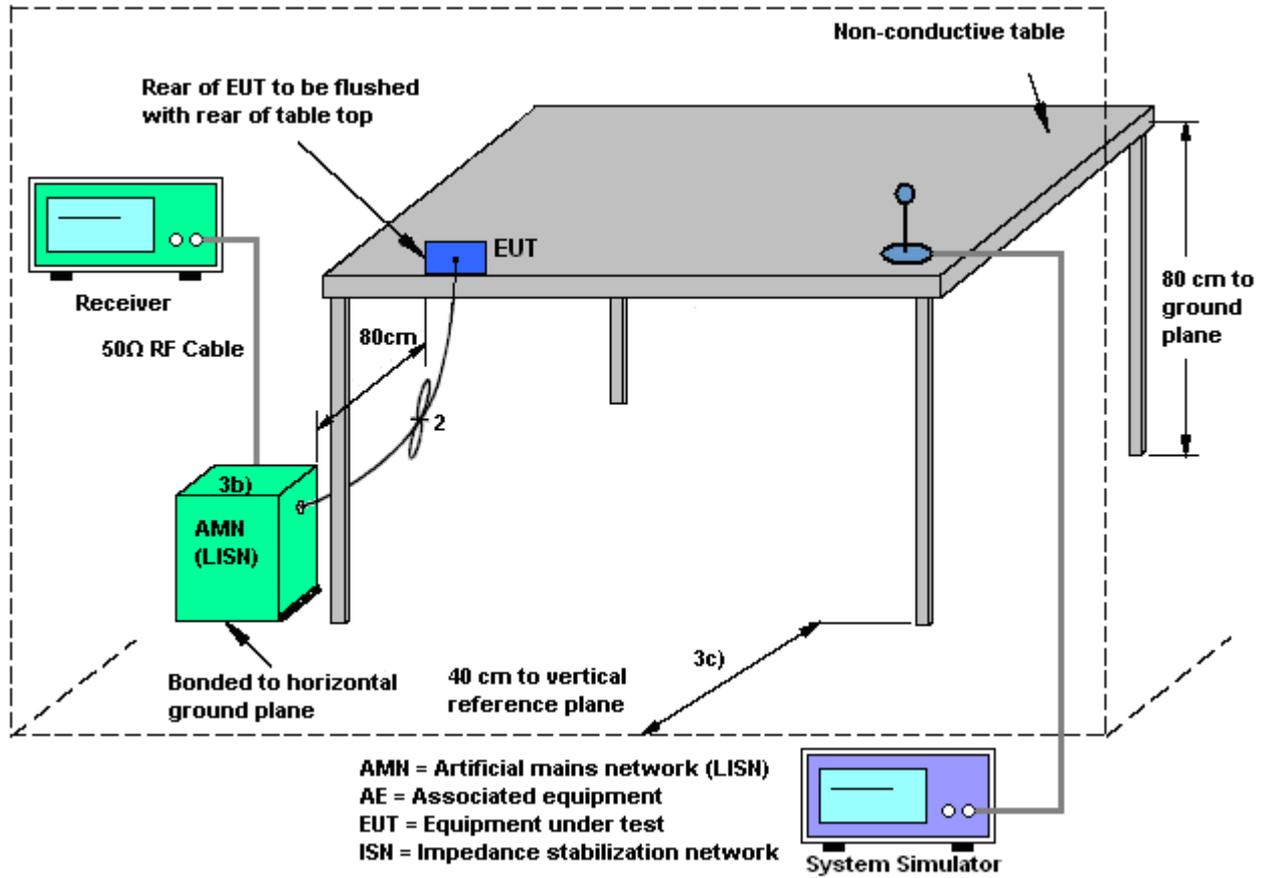
##### 3.1.2 Measuring Instruments

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

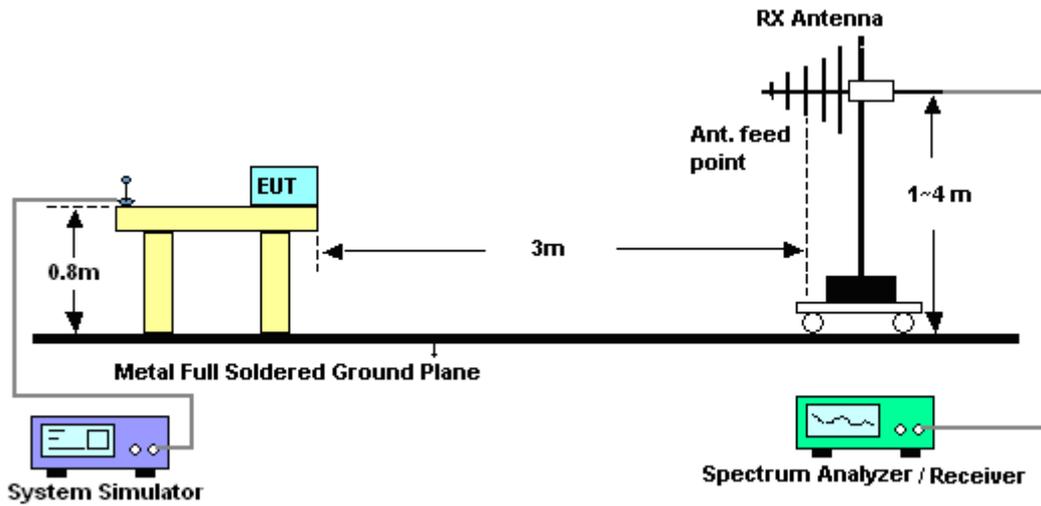
Refer a test equipment and calibration data table in this test report.

#### 3.2.3. Test Procedures

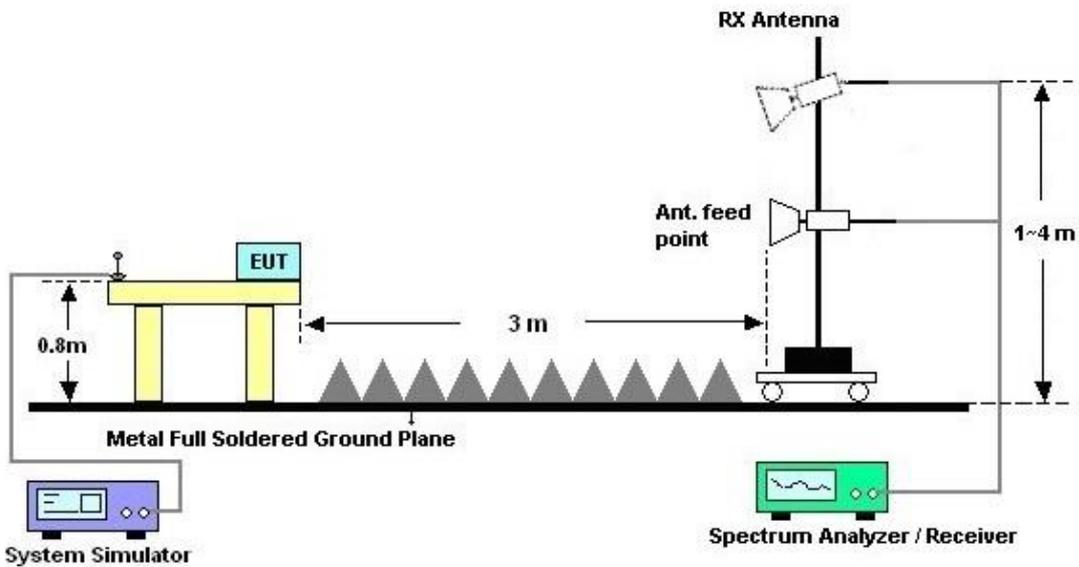
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna 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	Jul. 07, 2019	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9KHz~3.6GHz	Nov. 12, 2018	Jul. 07, 2019	Nov. 11, 2019	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Mar. 19, 2019	Jul. 07, 2019	Mar. 18, 2020	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 14, 2018	Jul. 07, 2019	Nov. 13, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 09, 2018	Jul. 07, 2019	Nov. 08, 2019	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jul. 07, 2019	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Dec. 31, 2018	Jul. 07, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Dec. 31, 2018	Jul. 07, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Preamplifier	SONOMA	310N	186713	9kHz~1GHz	May 01, 2019	Jul. 06, 2019	Apr. 30, 2020	Radiation (03CH06-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590075	1GHz ~ 18GHz	Apr. 24, 2019	Jul. 06, 2019	Apr. 23, 2020	Radiation (03CH06-HY)
Bilog Antenna	Schaffner	CBL6111C&N -6-06	2725&AT-N0601	30MHz~1GHz	Oct. 13, 2018	Jul. 06, 2019	Oct. 12, 2019	Radiation (03CH06-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-115 6	1GHz~18GHz	Aug. 24, 2018	Jul. 06, 2019	Aug. 23, 2019	Radiation (03CH06-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170 584	18GHz- 40GHz	Dec. 05, 2018	Jul. 06, 2019	Dec. 04, 2019	Radiation (03CH06-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 06, 2018	Jul. 06, 2019	Dec. 05, 2019	Radiation (03CH06-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100472	20Hz~26.5GHz	Jan. 08, 2019	Jul. 06, 2019	Jan. 07, 2020	Radiation (03CH06-HY)
Spectrum Analyzer	Keysight	N9010A	MY542004 85	10Hz ~ 44GHz	Nov. 02, 2018	Jul. 06, 2019	Nov. 01, 2019	Radiation (03CH06-HY)
Controller	INN-CO	EM1000	060782	Control Turn table & Ant Mast	N/A	Jul. 06, 2019	N/A	Radiation (03CH06-HY)
Antenna Mast	MF	MF-7802	MF780208 212	1m~4m	N/A	Jul. 06, 2019	N/A	Radiation (03CH06-HY)
Turn Table	INN-CO	DS2000	420/650/00	0-360 degree	N/A	Jul. 06, 2019	N/A	Radiation (03CH06-HY)
Test Software	AUDIX	e3	6.2009-8-2 4(k5)	N/A	N/A	Jul. 06, 2019	N/A	Radiation (03CH06-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
RF Cable	HUBER+SUHNER/WOKEN/HARBOUR INDUSTRIES	SUCOFLEX 104 /STORM/LL14 2	MY24966/4/ 00100A1O 2A178T/ CA3601-3 601-1000	30MHz-26GHz	Nov. 22, 2018	Jul. 06, 2019	Nov. 21, 2019	Radiation (03CH06-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2	18GHz~40GHz	Fed. 26, 2019	Jul. 06, 2019	Fed. 25, 2020	Radiation (03CH06-HY)
Filter	Microwave	H1G013G1	SN477215	1.0G High Pass	Nov. 02, 2018	Jul. 06, 2019	Nov. 01, 2019	Radiation (03CH06-HY)
Filter	Wainwright	WLKS1200-8 SS	SN3	1.2G Low Pass	Nov. 02, 2018	Jul. 06, 2019	Nov. 01, 2019	Radiation (03CH06-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
---	------

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	3.90
---	------

### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

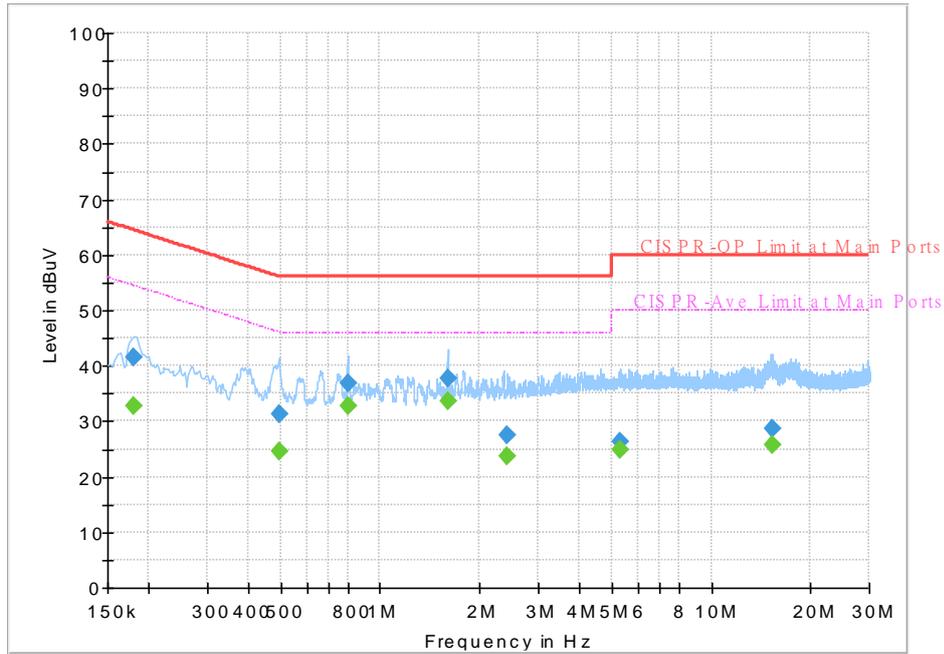
Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	4.70
---	------



## Appendix A. AC Conducted Emission Test Results

Test Mode :	Mode 1	Temperature :	24~26°C
Test Engineer :	Jimmy Chang	Relative Humidity :	52~54%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

Full Spectrum



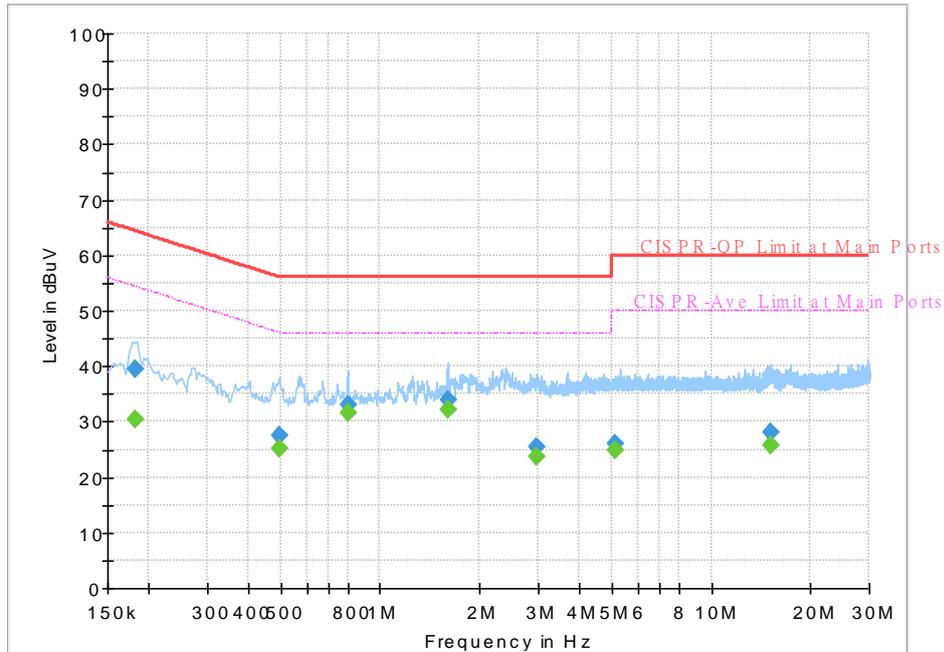
### Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.179250	---	32.64	54.52	21.88	L1	OFF	19.4
0.179250	41.41	---	64.52	23.11	L1	OFF	19.4
0.496500	---	24.59	46.06	21.47	L1	OFF	19.4
0.496500	31.26	---	56.06	24.80	L1	OFF	19.4
0.800250	---	32.88	46.00	13.12	L1	OFF	19.4
0.800250	36.74	---	56.00	19.26	L1	OFF	19.4
1.599000	---	33.63	46.00	12.37	L1	OFF	19.5
1.599000	37.58	---	56.00	18.42	L1	OFF	19.5
2.424750	---	23.70	46.00	22.30	L1	OFF	19.5
2.424750	27.58	---	56.00	28.42	L1	OFF	19.5
5.327250	---	24.95	50.00	25.05	L1	OFF	19.6
5.327250	26.36	---	60.00	33.64	L1	OFF	19.6
15.333000	---	25.81	50.00	24.19	L1	OFF	20.0
15.333000	28.74	---	60.00	31.26	L1	OFF	20.0



Test Mode :	Mode 1	Temperature :	24~26°C
Test Engineer :	Jimmy Chang	Relative Humidity :	52~54%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

Full Spectrum



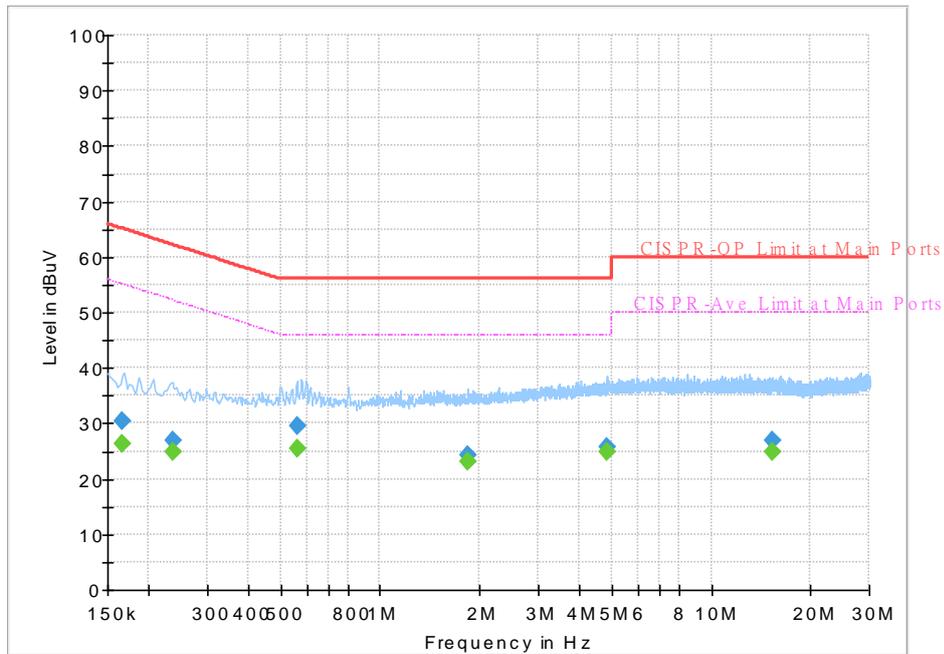
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.181500	---	30.27	54.42	24.15	N	OFF	19.5
0.181500	39.60	---	64.42	24.82	N	OFF	19.5
0.498750	---	25.21	46.02	20.81	N	OFF	19.5
0.498750	27.48	---	56.02	28.54	N	OFF	19.5
0.800250	---	31.64	46.00	14.36	N	OFF	19.5
0.800250	33.12	---	56.00	22.88	N	OFF	19.5
1.596750	---	32.16	46.00	13.84	N	OFF	19.5
1.596750	34.03	---	56.00	21.97	N	OFF	19.5
2.964750	---	23.78	46.00	22.22	N	OFF	19.6
2.964750	25.36	---	56.00	30.64	N	OFF	19.6
5.147250	---	24.87	50.00	25.13	N	OFF	19.7
5.147250	26.04	---	60.00	33.96	N	OFF	19.7
15.069750	---	25.67	50.00	24.33	N	OFF	20.1
15.069750	28.03	---	60.00	31.97	N	OFF	20.1



Test Mode :	Mode 2	Temperature :	24~26°C
Test Engineer :	Jimmy Chang	Relative Humidity :	52~54%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

Full Spectrum



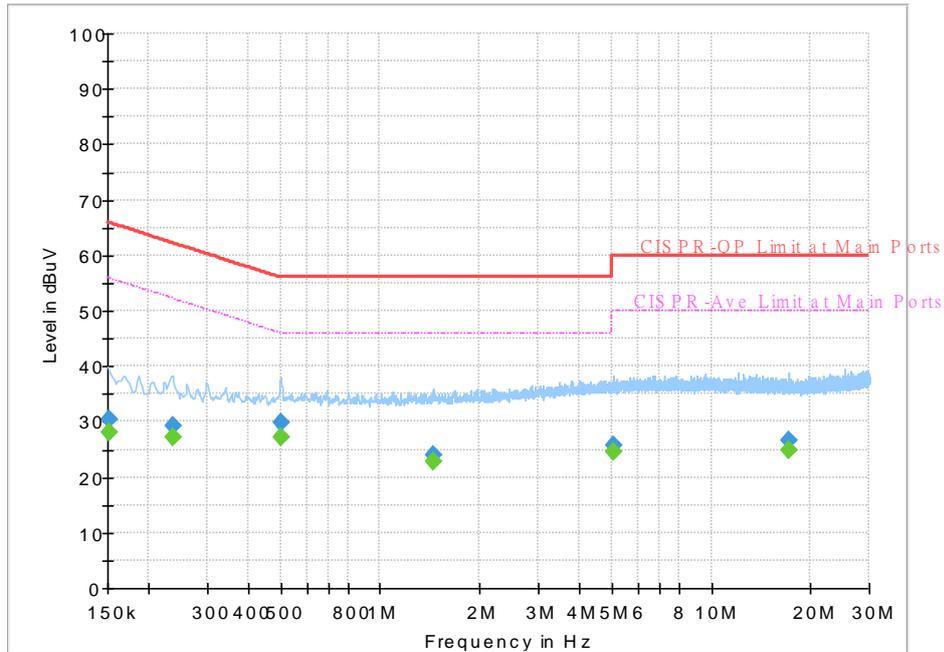
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.165750	---	26.43	55.17	28.74	L1	OFF	19.4
0.165750	30.31	---	65.17	34.86	L1	OFF	19.4
0.237750	---	24.92	52.17	27.25	L1	OFF	19.4
0.237750	26.91	---	62.17	35.26	L1	OFF	19.4
0.559500	---	25.57	46.00	20.43	L1	OFF	19.4
0.559500	29.54	---	56.00	26.46	L1	OFF	19.4
1.842000	---	23.03	46.00	22.97	L1	OFF	19.5
1.842000	24.22	---	56.00	31.78	L1	OFF	19.5
4.823250	---	24.73	46.00	21.27	L1	OFF	19.6
4.823250	25.75	---	56.00	30.25	L1	OFF	19.6
15.243000	---	24.95	50.00	25.05	L1	OFF	20.0
15.243000	26.81	---	60.00	33.19	L1	OFF	20.0



Test Mode :	Mode 2	Temperature :	24~26°C
Test Engineer :	Jimmy Chang	Relative Humidity :	52~54%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

Full Spectrum



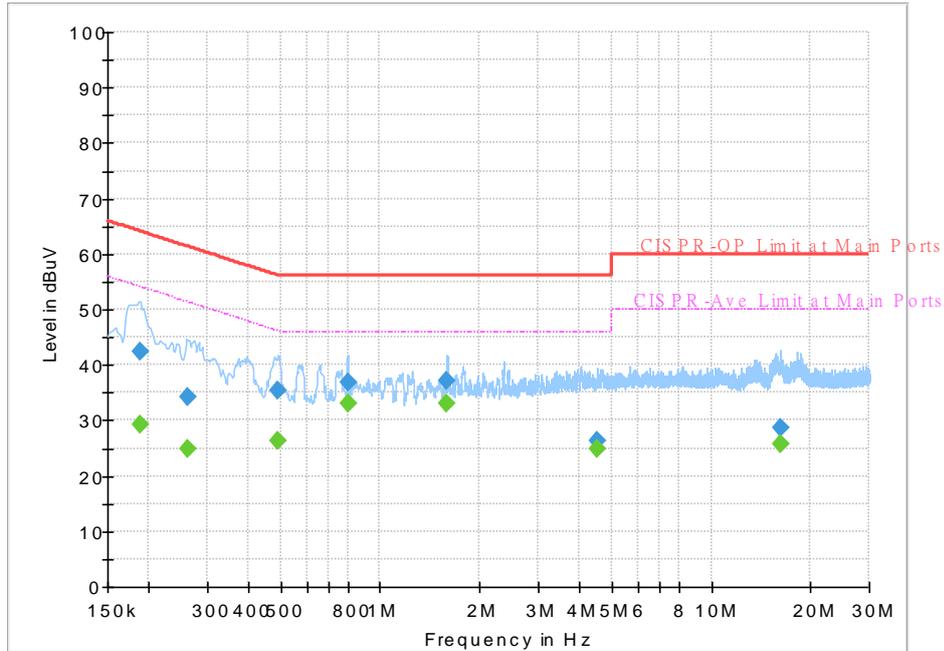
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	28.22	55.88	27.66	N	OFF	19.5
0.152250	30.34	---	65.88	35.54	N	OFF	19.5
0.235500	---	27.05	52.25	25.20	N	OFF	19.5
0.235500	29.31	---	62.25	32.94	N	OFF	19.5
0.501000	---	27.27	46.00	18.73	N	OFF	19.5
0.501000	29.94	---	56.00	26.06	N	OFF	19.5
1.452750	---	22.74	46.00	23.26	N	OFF	19.5
1.452750	24.01	---	56.00	31.99	N	OFF	19.5
5.057250	---	24.67	50.00	25.33	N	OFF	19.7
5.057250	25.60	---	60.00	34.40	N	OFF	19.7
17.164500	---	24.92	50.00	25.08	N	OFF	20.2
17.164500	26.49	---	60.00	33.51	N	OFF	20.2



Test Mode :	Mode 3	Temperature :	24~26°C
Test Engineer :	Jimmy Chang	Relative Humidity :	52~54%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

Full Spectrum



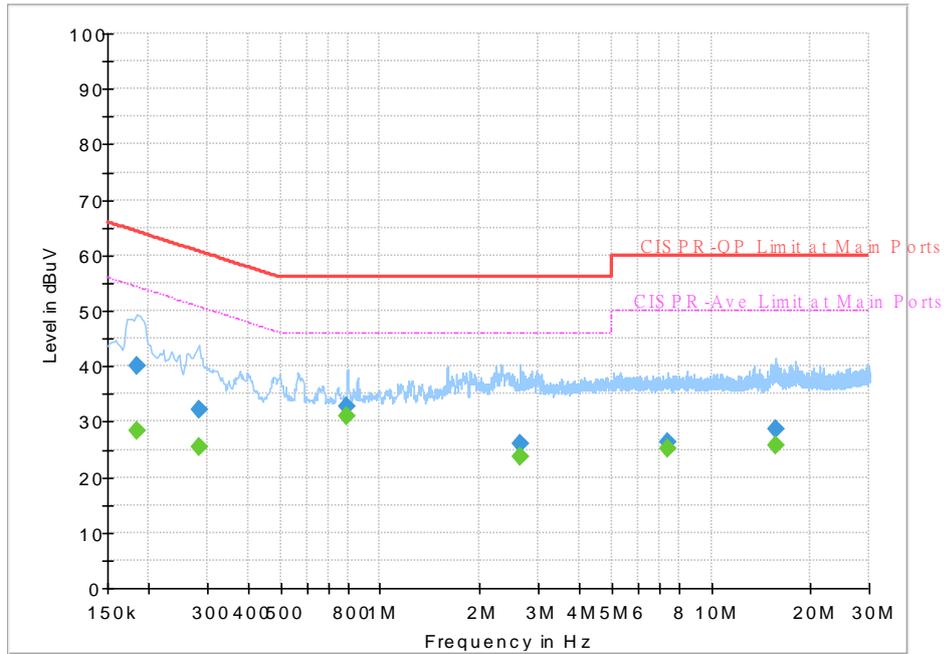
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.188250	---	29.30	54.11	24.81	L1	OFF	19.4
0.188250	42.28	---	64.11	21.83	L1	OFF	19.4
0.262500	---	24.96	51.35	26.39	L1	OFF	19.4
0.262500	34.14	---	61.35	27.21	L1	OFF	19.4
0.492000	---	26.36	46.13	19.77	L1	OFF	19.4
0.492000	35.31	---	56.13	20.82	L1	OFF	19.4
0.798000	---	32.99	46.00	13.01	L1	OFF	19.4
0.798000	36.78	---	56.00	19.22	L1	OFF	19.4
1.594500	---	33.08	46.00	12.92	L1	OFF	19.5
1.594500	37.02	---	56.00	18.98	L1	OFF	19.5
4.535250	---	24.77	46.00	21.23	L1	OFF	19.6
4.535250	26.46	---	56.00	29.54	L1	OFF	19.6
16.181250	---	25.72	50.00	24.28	L1	OFF	20.0
16.181250	28.78	---	60.00	31.22	L1	OFF	20.0



<b>Test Mode :</b>	Mode 3	<b>Temperature :</b>	24~26°C
<b>Test Engineer :</b>	Jimmy Chang	<b>Relative Humidity :</b>	52~54%
<b>Test Voltage :</b>	120Vac / 60Hz	<b>Phase :</b>	Neutral
<b>Remark :</b>	All emissions not reported here are more than 10 dB below the prescribed limit.		

Full Spectrum



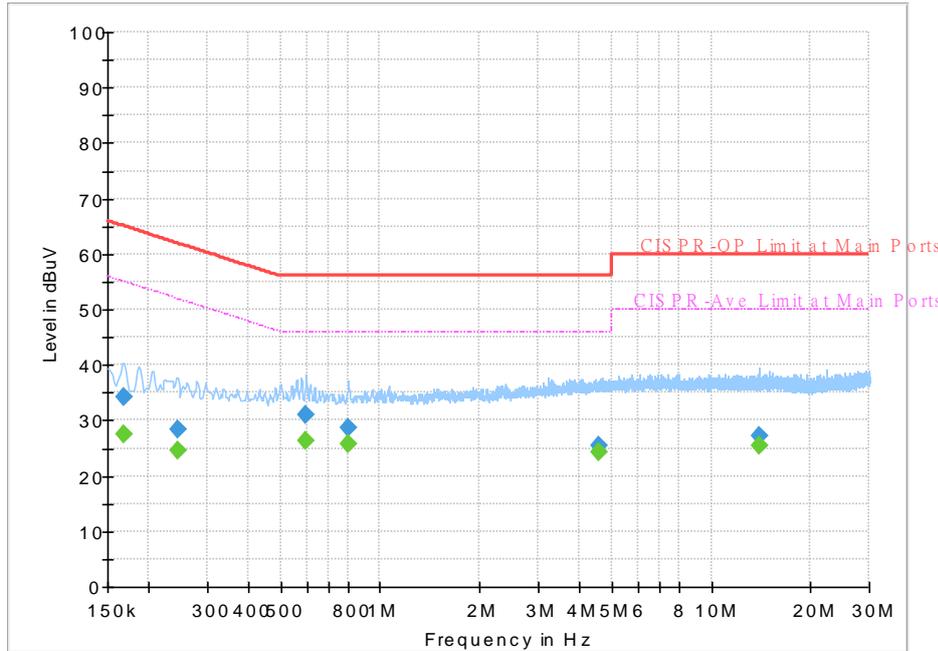
**Final Result**

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.183750	---	28.31	54.31	26.00	N	OFF	19.5
0.183750	40.03	---	64.31	24.28	N	OFF	19.5
0.285000	---	25.36	50.67	25.31	N	OFF	19.5
0.285000	32.25	---	60.67	28.42	N	OFF	19.5
0.795750	---	31.07	46.00	14.93	N	OFF	19.5
0.795750	32.71	---	56.00	23.29	N	OFF	19.5
2.649750	---	23.81	46.00	22.19	N	OFF	19.5
2.649750	26.05	---	56.00	29.95	N	OFF	19.5
7.413000	---	25.09	50.00	24.91	N	OFF	19.8
7.413000	26.19	---	60.00	33.81	N	OFF	19.8
15.720000	---	25.86	50.00	24.14	N	OFF	20.1
15.720000	28.54	---	60.00	31.46	N	OFF	20.1



Test Mode :	Mode 4	Temperature :	24~26°C
Test Engineer :	Jimmy Chang	Relative Humidity :	52~54%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

Full Spectrum



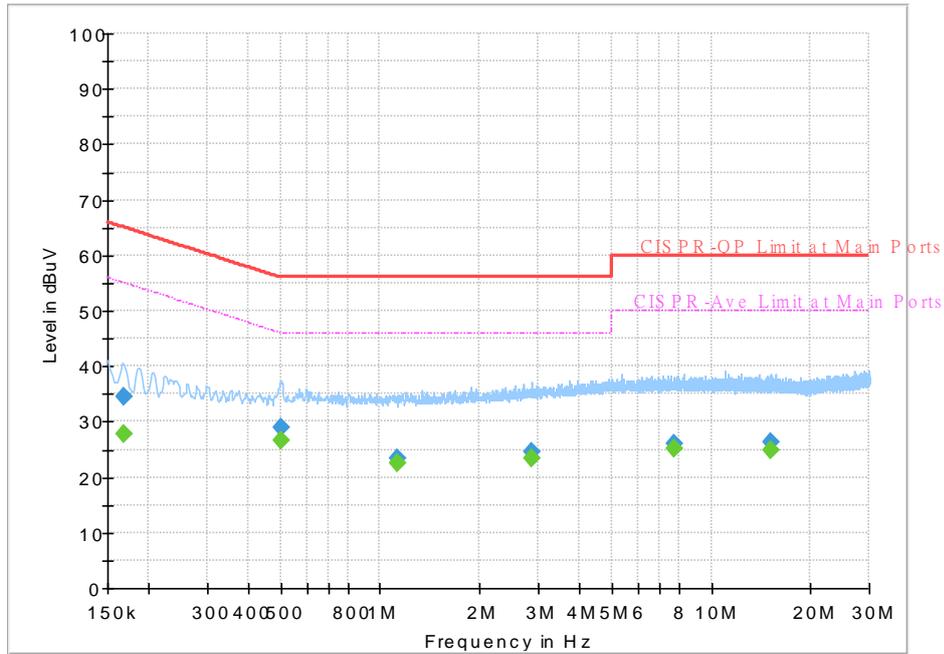
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.168000	---	27.46	55.06	27.60	L1	OFF	19.4
0.168000	34.12	---	65.06	30.94	L1	OFF	19.4
0.244500	---	24.54	51.94	27.40	L1	OFF	19.4
0.244500	28.46	---	61.94	33.48	L1	OFF	19.4
0.595500	---	26.24	46.00	19.76	L1	OFF	19.4
0.595500	30.86	---	56.00	25.14	L1	OFF	19.4
0.804750	---	25.70	46.00	20.30	L1	OFF	19.4
0.804750	28.64	---	56.00	27.36	L1	OFF	19.4
4.578000	---	24.39	46.00	21.61	L1	OFF	19.6
4.578000	25.40	---	56.00	30.60	L1	OFF	19.6
14.052750	---	25.31	50.00	24.69	L1	OFF	20.0
14.052750	27.13	---	60.00	32.87	L1	OFF	20.0



Test Mode :	Mode 4	Temperature :	24~26°C
Test Engineer :	Jimmy Chang	Relative Humidity :	52~54%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

Full Spectrum



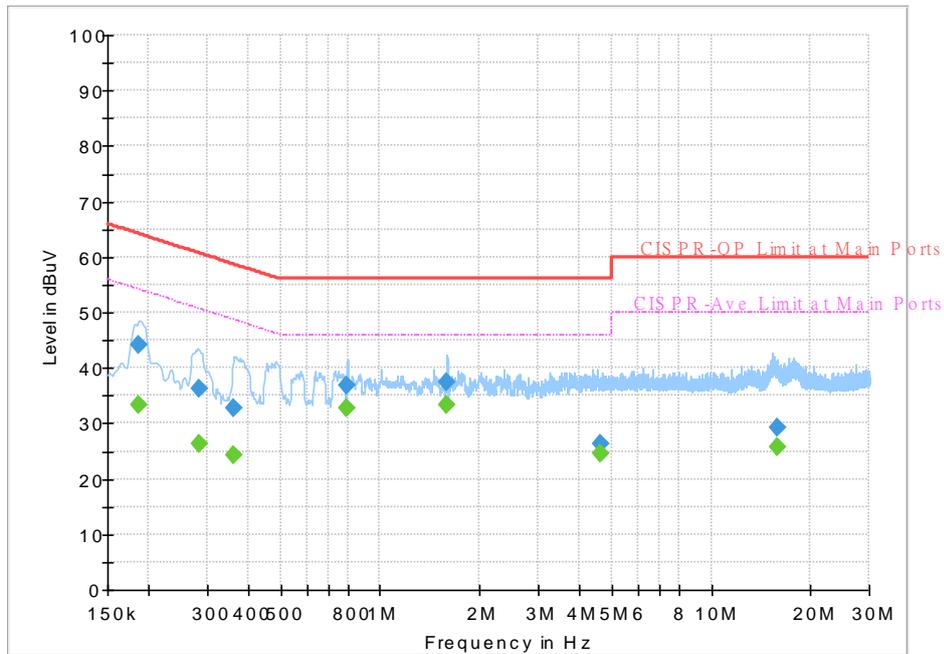
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.168000	---	27.80	55.06	27.26	N	OFF	19.5
0.168000	34.48	---	65.06	30.58	N	OFF	19.5
0.503250	---	26.56	46.00	19.44	N	OFF	19.5
0.503250	28.86	---	56.00	27.14	N	OFF	19.5
1.133250	---	22.45	46.00	23.55	N	OFF	19.5
1.133250	23.41	---	56.00	32.59	N	OFF	19.5
2.863500	---	23.49	46.00	22.51	N	OFF	19.6
2.863500	24.46	---	56.00	31.54	N	OFF	19.6
7.732500	---	25.02	50.00	24.98	N	OFF	19.8
7.732500	26.13	---	60.00	33.87	N	OFF	19.8
15.130500	---	24.88	50.00	25.12	N	OFF	20.1
15.130500	26.38	---	60.00	33.62	N	OFF	20.1



Test Mode :	Mode 5	Temperature :	24~26°C
Test Engineer :	Jimmy Chang	Relative Humidity :	52~54%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

Full Spectrum



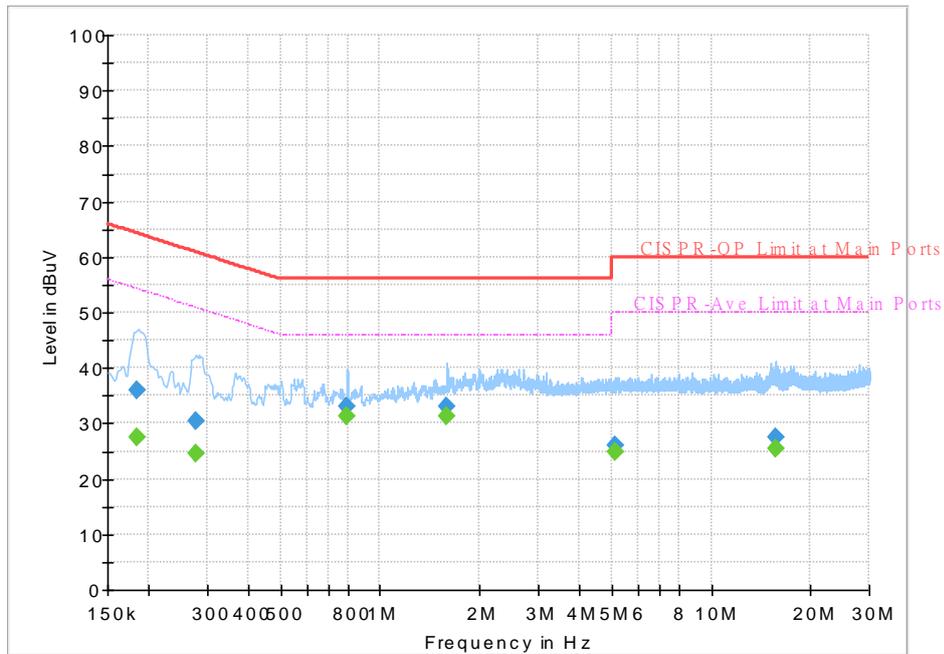
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.186000	---	33.46	54.21	20.75	L1	OFF	19.4
0.186000	44.14	---	64.21	20.07	L1	OFF	19.4
0.282750	---	26.41	50.74	24.33	L1	OFF	19.4
0.282750	36.21	---	60.74	24.53	L1	OFF	19.4
0.361500	---	24.22	48.69	24.47	L1	OFF	19.4
0.361500	32.86	---	58.69	25.83	L1	OFF	19.4
0.795750	---	32.88	46.00	13.12	L1	OFF	19.4
0.795750	36.71	---	56.00	19.29	L1	OFF	19.4
1.594500	---	33.47	46.00	12.53	L1	OFF	19.5
1.594500	37.29	---	56.00	18.71	L1	OFF	19.5
4.650000	---	24.68	46.00	21.32	L1	OFF	19.6
4.650000	26.21	---	56.00	29.79	L1	OFF	19.6
15.796500	---	25.84	50.00	24.16	L1	OFF	20.0
15.796500	29.13	---	60.00	30.87	L1	OFF	20.0



Test Mode :	Mode 5	Temperature :	24~26°C
Test Engineer :	Jimmy Chang	Relative Humidity :	52~54%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

Full Spectrum



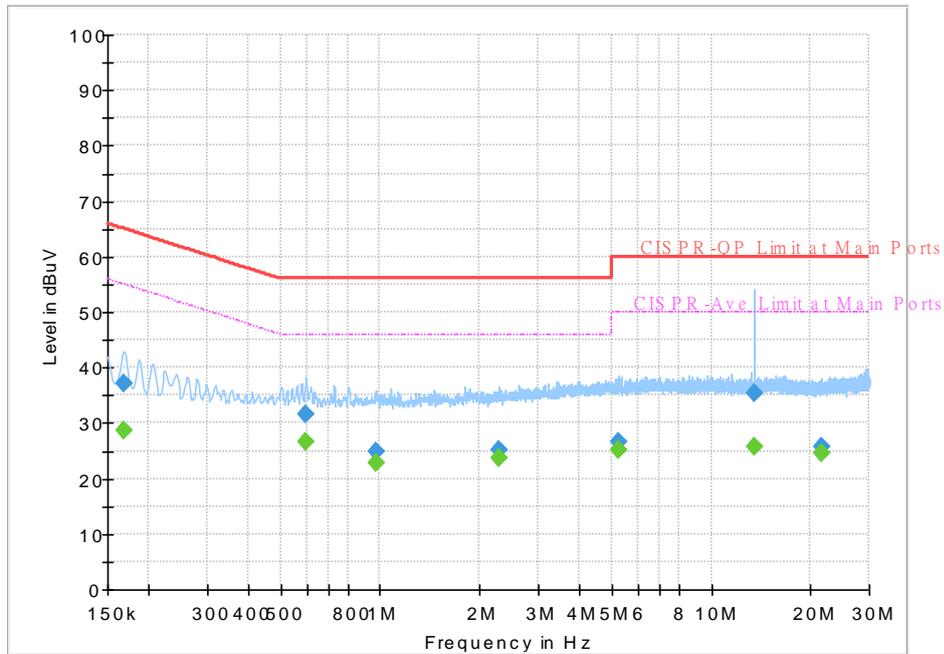
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.183750	---	27.39	54.31	26.92	N	OFF	19.5
0.183750	36.06	---	64.31	28.25	N	OFF	19.5
0.278250	---	24.42	50.87	26.45	N	OFF	19.5
0.278250	30.37	---	60.87	30.50	N	OFF	19.5
0.795750	---	31.37	46.00	14.63	N	OFF	19.5
0.795750	33.03	---	56.00	22.97	N	OFF	19.5
1.592250	---	31.39	46.00	14.61	N	OFF	19.5
1.592250	33.18	---	56.00	22.82	N	OFF	19.5
5.147250	---	24.85	50.00	25.15	N	OFF	19.7
5.147250	26.12	---	60.00	33.88	N	OFF	19.7
15.693000	---	25.30	50.00	24.70	N	OFF	20.1
15.693000	27.39	---	60.00	32.61	N	OFF	20.1



Test Mode :	Mode 6	Temperature :	24~26°C
Test Engineer :	Jimmy Chang	Relative Humidity :	52~54%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

Full Spectrum



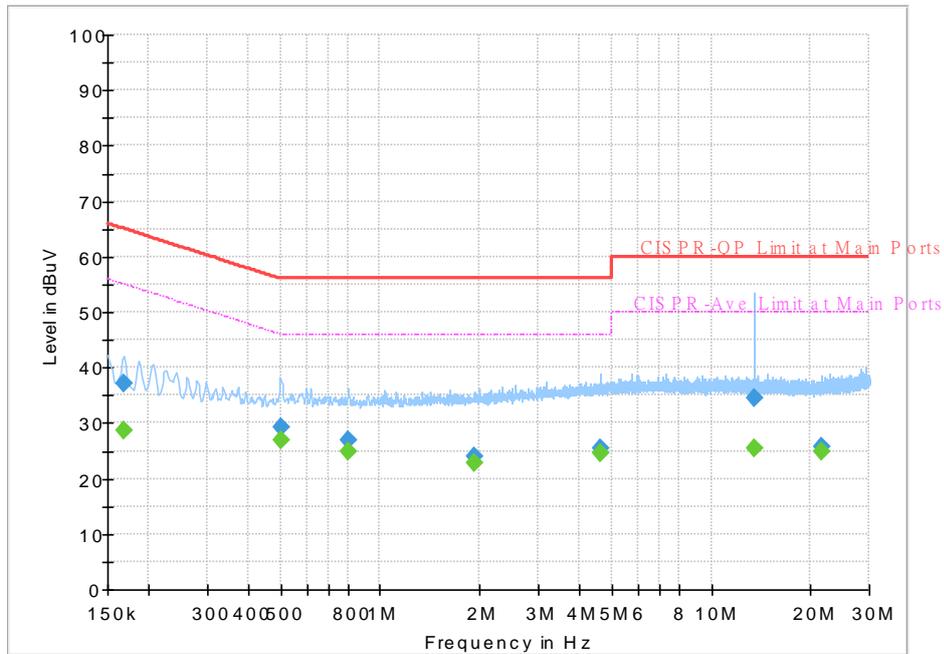
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.168000	---	28.72	55.06	26.34	L1	OFF	19.4
0.168000	37.18	---	65.06	27.88	L1	OFF	19.4
0.595500	---	26.74	46.00	19.26	L1	OFF	19.4
0.595500	31.51	---	56.00	24.49	L1	OFF	19.4
0.966750	---	22.90	46.00	23.10	L1	OFF	19.5
0.966750	24.74	---	56.00	31.26	L1	OFF	19.5
2.274000	---	23.66	46.00	22.34	L1	OFF	19.4
2.274000	25.27	---	56.00	30.73	L1	OFF	19.4
5.219250	---	25.06	50.00	24.94	L1	OFF	19.6
5.219250	26.46	---	60.00	33.54	L1	OFF	19.6
13.560000	---	25.69	50.00	24.31	L1	OFF	19.9
13.560000	35.51	---	60.00	24.49	L1	OFF	19.9
21.439500	---	24.69	50.00	25.31	L1	OFF	20.2
21.439500	25.77	---	60.00	34.23	L1	OFF	20.2



Test Mode :	Mode 6	Temperature :	24~26°C
Test Engineer :	Jimmy Chang	Relative Humidity :	52~54%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

Full Spectrum

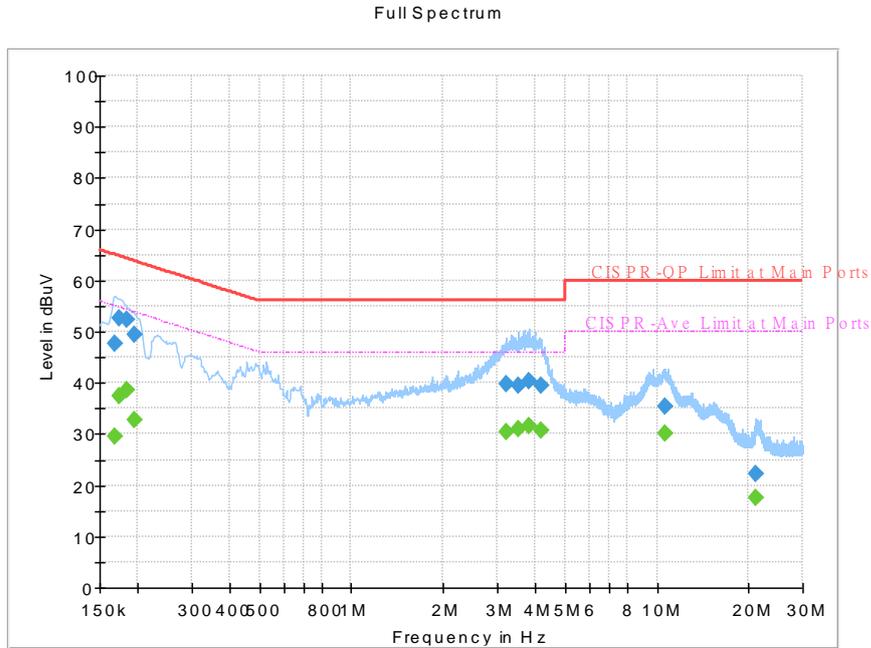


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.168000	---	28.62	55.06	26.44	N	OFF	19.5
0.168000	37.16	---	65.06	27.90	N	OFF	19.5
0.503250	---	26.94	46.00	19.06	N	OFF	19.5
0.503250	29.24	---	56.00	26.76	N	OFF	19.5
0.802500	---	24.78	46.00	21.22	N	OFF	19.5
0.802500	26.94	---	56.00	29.06	N	OFF	19.5
1.927500	---	22.85	46.00	23.15	N	OFF	19.6
1.927500	23.83	---	56.00	32.17	N	OFF	19.6
4.611750	---	24.57	46.00	21.43	N	OFF	19.7
4.611750	25.33	---	56.00	30.67	N	OFF	19.7
13.560000	---	25.46	50.00	24.54	N	OFF	20.0
13.560000	34.40	---	60.00	25.60	N	OFF	20.0
21.513750	---	24.80	50.00	25.20	N	OFF	20.3
21.513750	25.82	---	60.00	34.18	N	OFF	20.3



Test Mode :	Mode 7	Temperature :	24~26°C
Test Engineer :	Jimmy Chang	Relative Humidity :	52~54%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

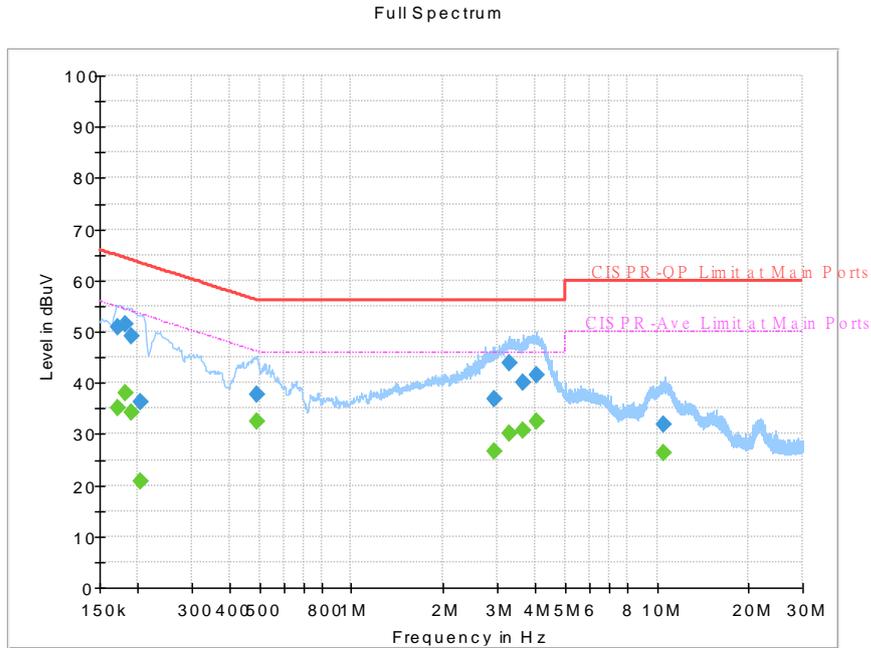


**Final Result**

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.168000	47.63	---	65.06	17.43	L1	OFF	19.6
0.168000	---	29.58	55.06	25.48	L1	OFF	19.6
0.174750	52.50	---	64.73	12.23	L1	OFF	19.6
0.174750	---	37.30	54.73	17.43	L1	OFF	19.6
0.183750	52.33	---	64.31	11.98	L1	OFF	19.6
0.183750	---	38.61	54.31	15.70	L1	OFF	19.6
0.195000	49.32	---	63.82	14.50	L1	OFF	19.6
0.195000	---	32.72	53.82	21.10	L1	OFF	19.6
3.207750	39.79	---	56.00	16.21	L1	OFF	19.6
3.207750	---	30.29	46.00	15.71	L1	OFF	19.6
3.538500	39.46	---	56.00	16.54	L1	OFF	19.6
3.538500	---	30.89	46.00	15.11	L1	OFF	19.6
3.810750	40.38	---	56.00	15.62	L1	OFF	19.6
3.810750	---	31.51	46.00	14.49	L1	OFF	19.6
4.170750	39.55	---	56.00	16.45	L1	OFF	19.6
4.170750	---	30.68	46.00	15.32	L1	OFF	19.6
10.677750	35.24	---	60.00	24.76	L1	OFF	19.7
10.677750	---	30.06	50.00	19.94	L1	OFF	19.7
21.115500	22.09	---	60.00	37.91	L1	OFF	19.8
21.115500	---	17.69	50.00	32.31	L1	OFF	19.8



Test Mode :	Mode 7	Temperature :	24~26°C
Test Engineer :	Jimmy Chang	Relative Humidity :	52~54%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



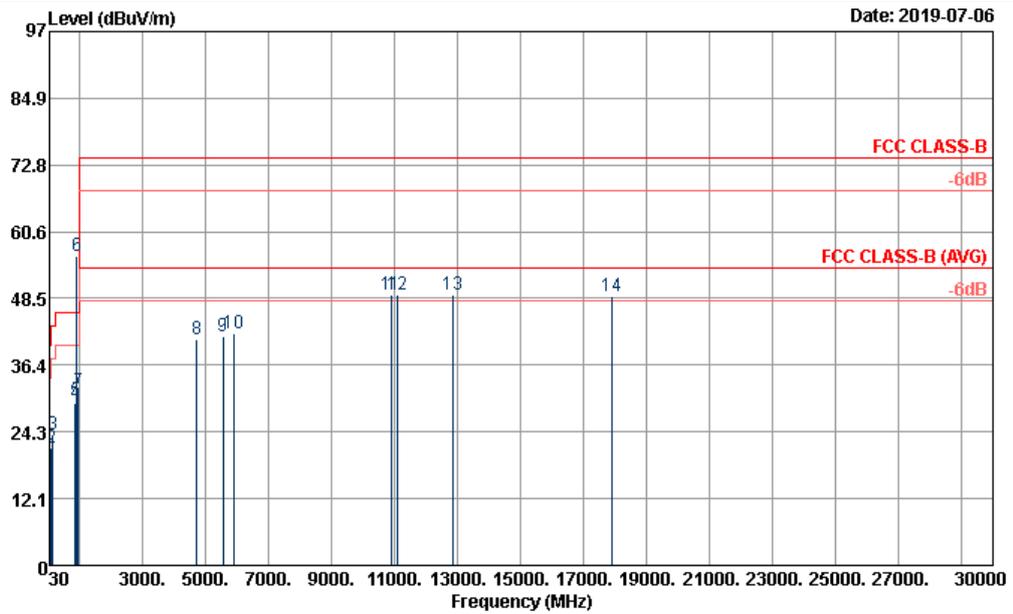
**Final Result**

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.172500	50.81	---	64.84	14.03	N	OFF	19.6
0.172500	---	35.17	54.84	19.67	N	OFF	19.6
0.181500	51.40	---	64.42	13.02	N	OFF	19.6
0.181500	---	37.95	54.42	16.47	N	OFF	19.6
0.190500	49.06	---	64.02	14.96	N	OFF	19.6
0.190500	---	34.33	54.02	19.69	N	OFF	19.6
0.204000	36.33	---	63.45	27.12	N	OFF	19.6
0.204000	---	20.62	53.45	32.83	N	OFF	19.6
0.489750	37.78	---	56.17	18.39	N	OFF	19.6
0.489750	---	32.32	46.17	13.85	N	OFF	19.6
2.926500	36.89	---	56.00	19.11	N	OFF	19.6
2.926500	---	26.66	46.00	19.34	N	OFF	19.6
3.284250	43.97	---	56.00	12.03	N	OFF	19.6
3.284250	---	30.14	46.00	15.86	N	OFF	19.6
3.633000	40.06	---	56.00	15.94	N	OFF	19.6
3.633000	---	30.79	46.00	15.21	N	OFF	19.6
4.035750	41.62	---	56.00	14.38	N	OFF	19.6
4.035750	---	32.48	46.00	13.52	N	OFF	19.6
10.536000	31.98	---	60.00	28.02	N	OFF	19.7
10.536000	---	26.41	50.00	23.59	N	OFF	19.7



## Appendix B. Radiated Emission Test Result

Mode :	Mode 1	Temperature :	24~26°C
Test Engineer :	Brad Liu, Yuan Lee, Eric Jeng, Nick Yu	Relative Humidity :	48~50%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#6 is system simulator signal which can be ignored.		

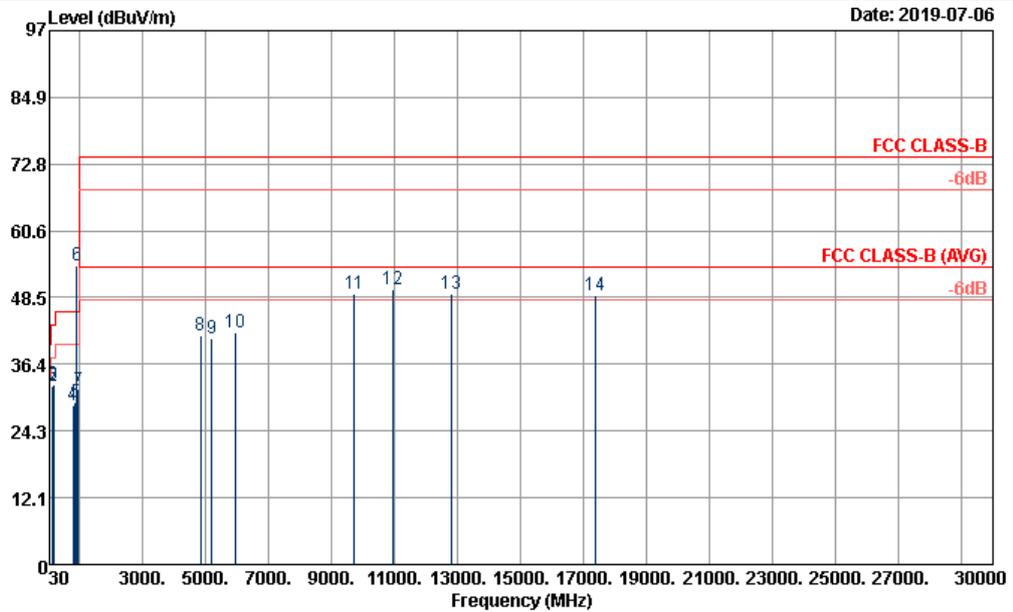


Site : 03CH06-HY  
 Condition : FCC CLASS-B 3m 9120D\_1156\_180824 HORIZONTAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.27	22.19	-17.81	40.00	28.61	24.60	0.62	31.64	---	---	Peak
2	87.78	21.43	-18.57	40.00	37.71	14.34	1.03	31.65	---	---	Peak
3	149.07	23.68	-19.82	43.50	36.80	17.06	1.43	31.61	---	---	Peak
4	841.80	29.40	-16.60	46.00	28.83	28.56	3.55	31.54	---	---	Peak
5	864.90	30.04	-15.96	46.00	28.89	29.00	3.61	31.46	---	---	Peak
6 *	893.60	56.26			55.16	28.78	3.67	31.35	---	---	Peak
7	946.80	31.72	-14.28	46.00	28.65	30.18	3.79	30.90	100	120	Peak
8	4700.00	41.12	-32.88	74.00	59.63	31.00	9.57	59.64	---	---	Peak
9	5545.00	41.67	-32.33	74.00	55.75	31.70	10.94	57.40	---	---	Peak
10	5900.00	42.23	-31.77	74.00	56.11	32.40	11.10	58.03	---	---	Peak
11	10886.00	49.27	-24.73	74.00	49.33	40.40	15.09	56.75	---	---	Peak
12	11082.00	49.05	-24.95	74.00	48.90	40.17	15.22	56.43	---	---	Peak
13	12825.00	49.29	-24.71	74.00	50.96	39.13	16.78	58.73	100	145	Peak
14	17910.00	48.88	-25.12	74.00	35.19	46.52	21.96	54.79	---	---	Peak



Mode :	Mode 1	Temperature :	24~26°C
Test Engineer :	Brad Liu, Yuan Lee, Eric Jeng, Nick Yu	Relative Humidity :	48~50%
Test Distance :	3m	Polarization :	Vertical
Remark :	#6 is system simulator signal which can be ignored.		

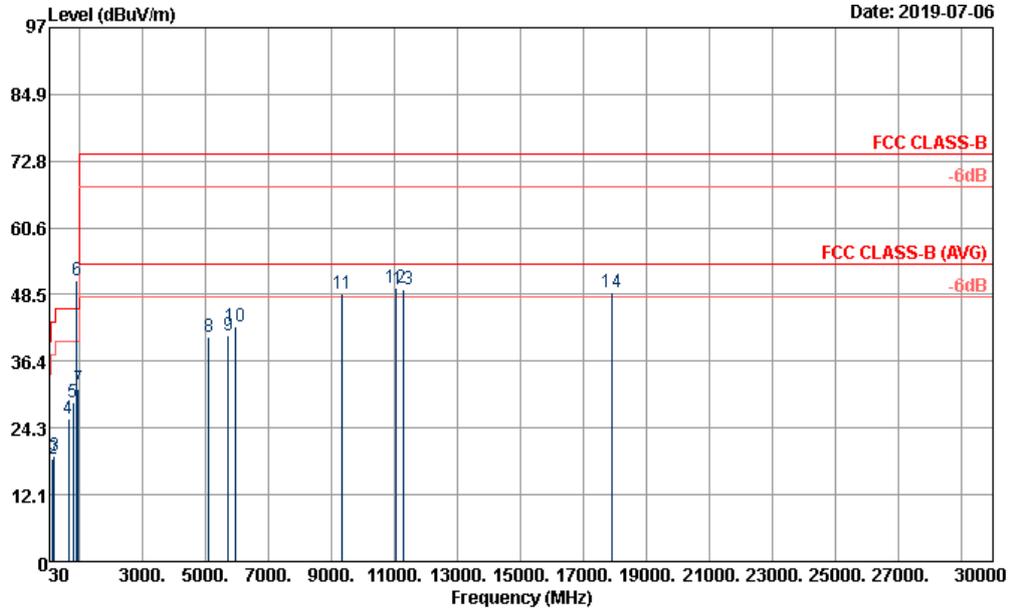


Site : 03CH06-HY  
 Condition : FCC CLASS-B 3m 9120D\_1156\_180824 VERTICAL

	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	36.75	30.72	-9.28	40.00	40.76	20.97	0.62	31.63	100	168	Peak
2	134.22	32.49	-11.01	43.50	45.35	17.41	1.36	31.63	---	---	Peak
3	149.88	32.80	-10.70	43.50	45.96	17.02	1.43	31.61	---	---	Peak
4	773.90	29.03	-16.97	46.00	29.40	27.94	3.43	31.74	---	---	Peak
5	861.40	29.47	-16.53	46.00	28.31	29.02	3.61	31.47	---	---	Peak
6 *	893.60	54.38			53.28	28.78	3.67	31.35	---	---	Peak
7	952.40	31.67	-14.33	46.00	28.05	30.49	3.98	30.85	---	---	Peak
8	4820.00	41.58	-32.42	74.00	59.29	31.05	9.79	59.09	---	---	Peak
9	5190.00	40.95	-33.05	74.00	56.58	31.53	10.13	57.93	---	---	Peak
10	5920.00	42.10	-31.90	74.00	55.86	32.47	11.14	58.05	---	---	Peak
11	9703.00	49.07	-24.93	74.00	52.63	38.90	14.50	58.26	---	---	Peak
12	10942.00	49.91	-24.09	74.00	49.77	40.45	15.12	56.63	100	315	Peak
13	12818.00	49.31	-24.69	74.00	51.01	39.12	16.75	58.72	---	---	Peak
14	17355.00	48.92	-25.08	74.00	42.19	41.55	21.12	55.94	---	---	Peak



Mode :	Mode 2	Temperature :	24~26°C
Test Engineer :	Brad Liu, Yuan Lee, Eric Jeng, Nick Yu	Relative Humidity :	48~50%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#6 is system simulator signal which can be ignored.		

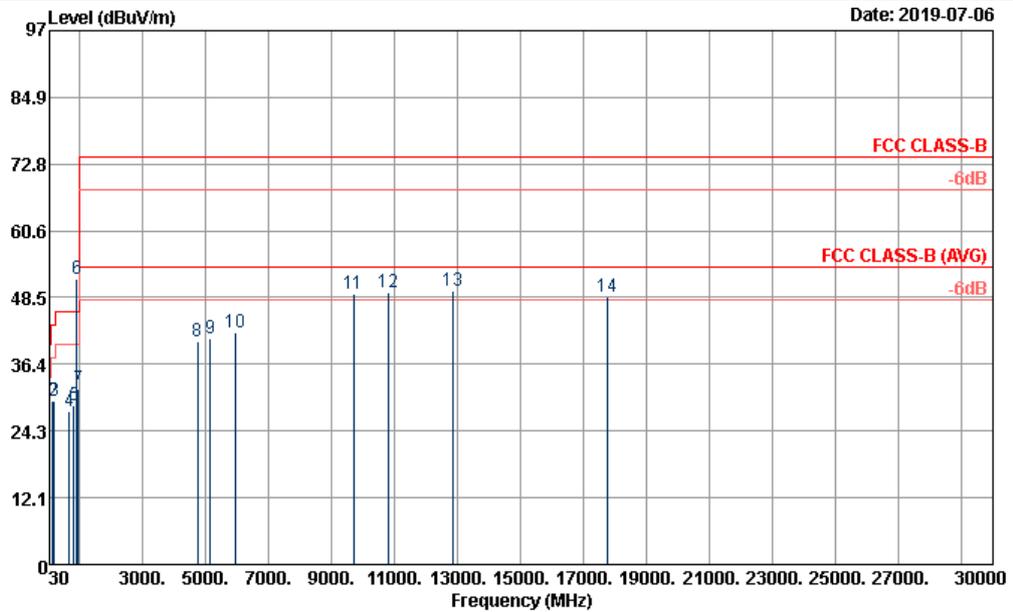


Site : 03CH06-HY  
 Condition : FCC CLASS-B 3m 9120B\_1156\_180824 HORIZONTAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	31.62	21.09	-18.91	40.00	28.53	23.58	0.62	31.64	---	---	Peak
2	143.13	18.67	-24.83	43.50	31.63	17.30	1.36	31.62	---	---	Peak
3	173.64	19.08	-24.42	43.50	33.81	15.32	1.54	31.59	---	---	Peak
4	633.20	25.90	-20.10	46.00	28.71	25.99	3.04	31.84	---	---	Peak
5	785.10	28.89	-17.11	46.00	29.20	27.98	3.43	31.72	---	---	Peak
6 *	891.50	51.17			50.06	28.80	3.67	31.36	---	---	Peak
7	955.90	31.42	-14.58	46.00	27.56	30.69	3.98	30.81	100	168	Peak
8	5095.00	40.72	-33.28	74.00	57.17	31.80	9.43	58.13	---	---	Peak
9	5710.00	40.99	-33.01	74.00	55.27	31.83	10.99	57.67	---	---	Peak
10	5920.00	42.73	-31.27	74.00	56.49	32.47	11.14	58.05	---	---	Peak
11	9339.00	48.72	-25.28	74.00	52.39	38.80	14.20	58.18	---	---	Peak
12	11026.00	49.85	-24.15	74.00	49.60	40.37	15.17	56.48	100	148	Peak
13	11278.00	49.57	-24.43	74.00	49.60	39.72	15.34	56.28	---	---	Peak
14	17910.00	48.92	-25.08	74.00	35.23	46.52	21.96	54.79	---	---	Peak



Mode :	Mode 2	Temperature :	24~26°C
Test Engineer :	Brad Liu, Yuan Lee, Eric Jeng, Nick Yu	Relative Humidity :	48~50%
Test Distance :	3m	Polarization :	Vertical
Remark :	#6 is system simulator signal which can be ignored.		

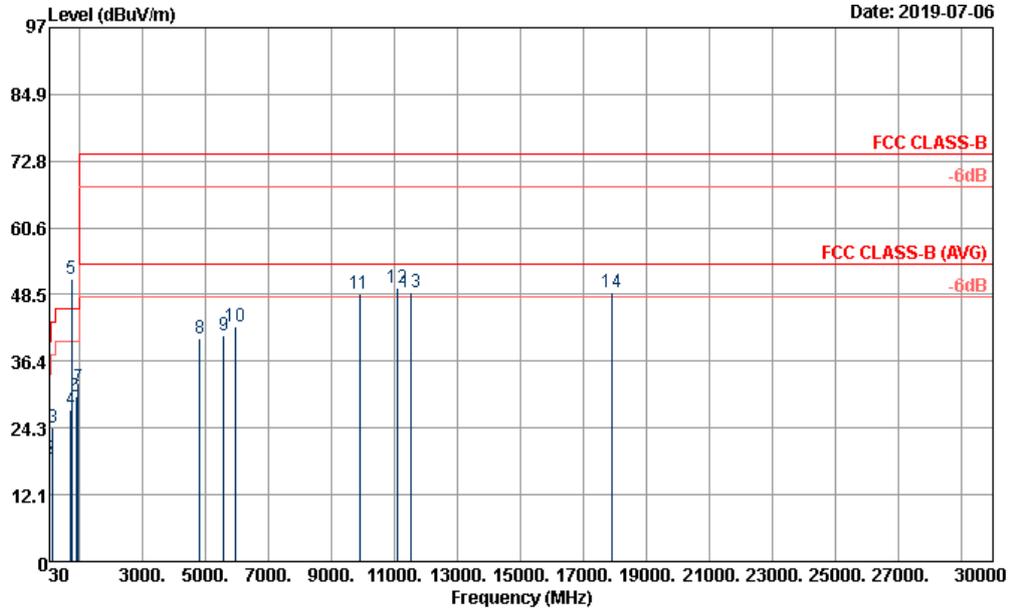


Site : 03CH06-HY  
 Condition : FCC CLASS-B 3m 9120D\_1156\_180824 VERTICAL

	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	40.53	25.60	-14.40	40.00	37.80	18.81	0.62	31.63	---	---	Peak
2	145.56	29.74	-13.76	43.50	42.76	17.23	1.36	31.61	---	---	Peak
3	174.72	29.78	-13.72	43.50	44.56	15.26	1.54	31.58	100	132	Peak
4	661.20	27.91	-18.09	46.00	30.51	26.18	3.07	31.85	---	---	Peak
5	800.50	28.94	-17.06	46.00	29.17	27.96	3.50	31.69	---	---	Peak
6 *	891.50	51.94			50.83	28.80	3.67	31.36	---	---	Peak
7	950.30	31.82	-14.18	46.00	28.51	30.39	3.79	30.87	---	---	Peak
8	4730.00	40.61	-33.39	74.00	58.96	31.00	9.62	59.52	---	---	Peak
9	5150.00	41.14	-32.86	74.00	57.02	31.80	9.78	58.01	---	---	Peak
10	5960.00	42.07	-31.93	74.00	55.72	32.57	11.19	58.12	---	---	Peak
11	9696.00	49.28	-24.72	74.00	52.84	38.90	14.50	58.26	---	---	Peak
12	10788.00	49.58	-24.42	74.00	50.03	40.30	15.02	56.97	---	---	Peak
13	12825.00	49.81	-24.19	74.00	51.48	39.13	16.78	58.73	100	324	Peak
14	17745.00	48.73	-25.27	74.00	38.28	43.95	21.72	55.22	---	---	Peak



Mode :	Mode 3	Temperature :	24~26°C
Test Engineer :	Brad Liu, Yuan Lee, Eric Jeng, Nick Yu	Relative Humidity :	48~50%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#5 is system simulator signal which can be ignored.		

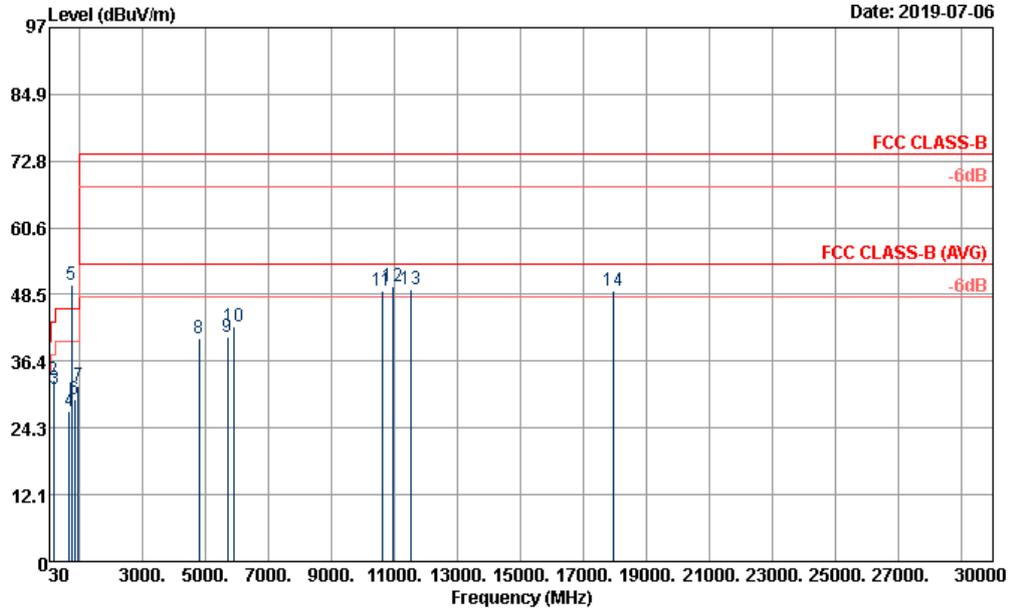


Site : 03CH06-HY  
 Condition : FCC CLASS-B 3m 9120B\_1156\_180824 HORIZONTAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	31.35	22.05	-17.95	40.00	28.98	24.09	0.62	31.64	---	---	Peak
2	48.09	18.53	-21.47	40.00	34.24	15.07	0.84	31.62	---	---	Peak
3	148.53	24.37	-19.13	43.50	37.45	17.10	1.43	31.61	---	---	Peak
4	710.20	27.52	-18.48	46.00	29.60	26.49	3.28	31.85	---	---	Peak
5 *	741.00	51.26			52.05	27.69	3.32	31.80	---	---	Peak
6	878.90	29.92	-16.08	46.00	28.75	28.91	3.67	31.41	---	---	Peak
7	958.70	31.72	-14.28	46.00	27.73	30.80	3.98	30.79	100	149	Peak
8	4815.00	40.62	-33.38	74.00	58.45	31.00	9.79	59.16	---	---	Peak
9	5580.00	40.97	-33.03	74.00	55.01	31.70	11.10	57.45	---	---	Peak
10	5925.00	42.74	-31.26	74.00	56.47	32.53	11.14	58.08	---	---	Peak
11	9871.00	48.75	-25.25	74.00	51.71	39.23	14.71	58.22	---	---	Peak
12	11082.00	49.75	-24.25	74.00	49.60	40.17	15.22	56.43	100	164	Peak
13	11495.00	48.85	-25.15	74.00	48.42	39.88	15.47	56.10	---	---	Peak
14	17900.00	49.03	-24.97	74.00	35.71	46.20	21.96	54.84	---	---	Peak



Mode :	Mode 3	Temperature :	24~26°C
Test Engineer :	Brad Liu, Yuan Lee, Eric Jeng, Nick Yu	Relative Humidity :	48~50%
Test Distance :	3m	Polarization :	Vertical
Remark :	#5 is system simulator signal which can be ignored.		

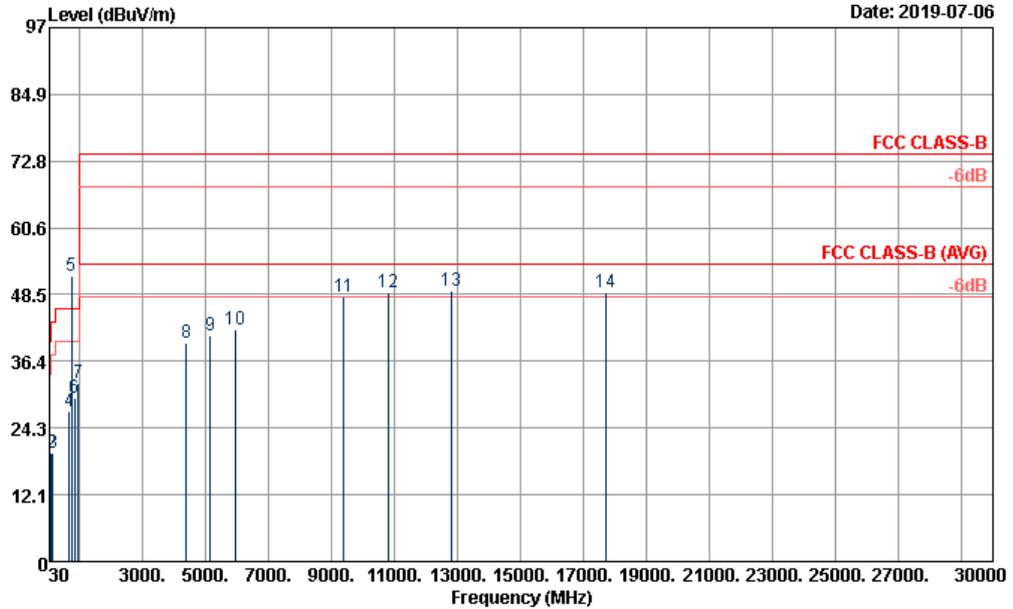


Site : 03CH06-HY  
 Condition : FCC CLASS-B 3m 9120D\_1156\_180824 VERTICAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	
1	45.93	26.96	-13.04	40.00	41.44	16.30	0.84	31.62	---	Peak
2	149.61	33.01	-10.49	43.50	46.13	17.06	1.43	31.61	100	Peak
3	179.58	31.41	-12.09	43.50	46.41	15.04	1.54	31.58	---	Peak
4	661.20	27.30	-18.70	46.00	29.90	26.18	3.07	31.85	---	Peak
5 *	741.00	50.38			51.17	27.69	3.32	31.80	---	Peak
6	834.10	29.46	-16.54	46.00	29.18	28.30	3.55	31.57	---	Peak
7	957.30	31.81	-14.19	46.00	27.89	30.75	3.98	30.81	---	Peak
8	4790.00	40.49	-33.51	74.00	58.44	31.00	9.73	59.22	---	Peak
9	5690.00	40.82	-33.18	74.00	55.07	31.80	11.02	57.65	---	Peak
10	5900.00	42.67	-31.33	74.00	56.55	32.40	11.10	58.03	---	Peak
11	10606.00	49.30	-24.70	74.00	50.56	40.00	14.91	57.38	---	Peak
12	10956.00	49.97	-24.03	74.00	49.75	40.47	15.14	56.59	100	Peak
13	11516.00	49.56	-24.44	74.00	49.14	39.87	15.49	56.12	---	Peak
14	17930.00	49.24	-24.76	74.00	35.16	46.83	22.00	54.75	---	Peak



Mode :	Mode 4	Temperature :	24~26°C
Test Engineer :	Brad Liu, Yuan Lee, Eric Jeng, Nick Yu	Relative Humidity :	48~50%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#5 is system simulator signal which can be ignored.		

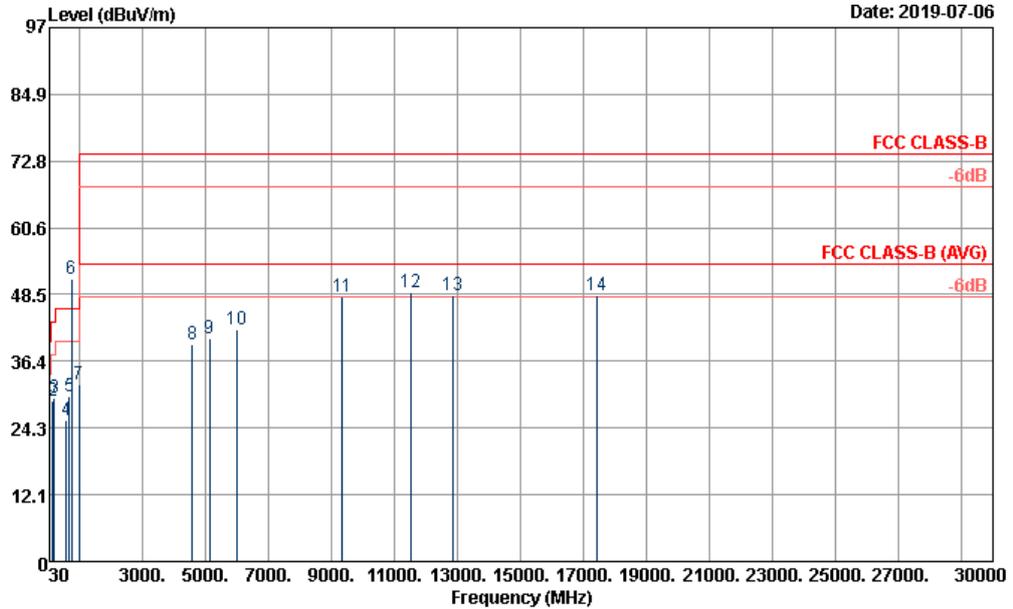


Site : 03CH06-HY  
 Condition : FCC CLASS-B 3m 9120b\_1156\_180824 HORIZONTAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.00	20.91	-19.09	40.00	27.33	24.60	0.62	31.64	---	---	Peak
2	85.89	19.72	-20.28	40.00	36.31	14.03	1.03	31.65	---	---	Peak
3	144.75	19.70	-23.80	43.50	32.69	17.26	1.36	31.61	---	---	Peak
4	661.20	27.30	-18.70	46.00	29.90	26.18	3.07	31.85	---	---	Peak
5 *	741.00	51.81			52.60	27.69	3.32	31.80	---	---	Peak
6	827.80	29.72	-16.28	46.00	29.70	28.06	3.55	31.59	---	---	Peak
7	951.70	32.35	-13.65	46.00	28.97	30.44	3.79	30.85	100		49 Peak
8	4380.00	39.76	-34.24	74.00	60.11	30.33	9.57	60.78	---	---	Peak
9	5150.00	41.17	-32.83	74.00	57.05	31.80	9.78	58.01	---	---	Peak
10	5935.00	42.10	-31.90	74.00	55.83	32.53	11.14	58.08	---	---	Peak
11	9388.00	47.99	-26.01	74.00	51.59	38.80	14.31	58.21	---	---	Peak
12	10816.00	48.89	-25.11	74.00	49.24	40.32	15.04	56.91	---	---	Peak
13	12818.00	49.08	-24.92	74.00	50.78	39.12	16.75	58.72	100		71 Peak
14	17700.00	48.80	-25.20	74.00	39.11	43.40	21.64	55.35	---	---	Peak



Mode :	Mode 4	Temperature :	24~26°C
Test Engineer :	Brad Liu, Yuan Lee, Eric Jeng, Nick Yu	Relative Humidity :	48~50%
Test Distance :	3m	Polarization :	Vertical
Remark :	#6 is system simulator signal which can be ignored.		

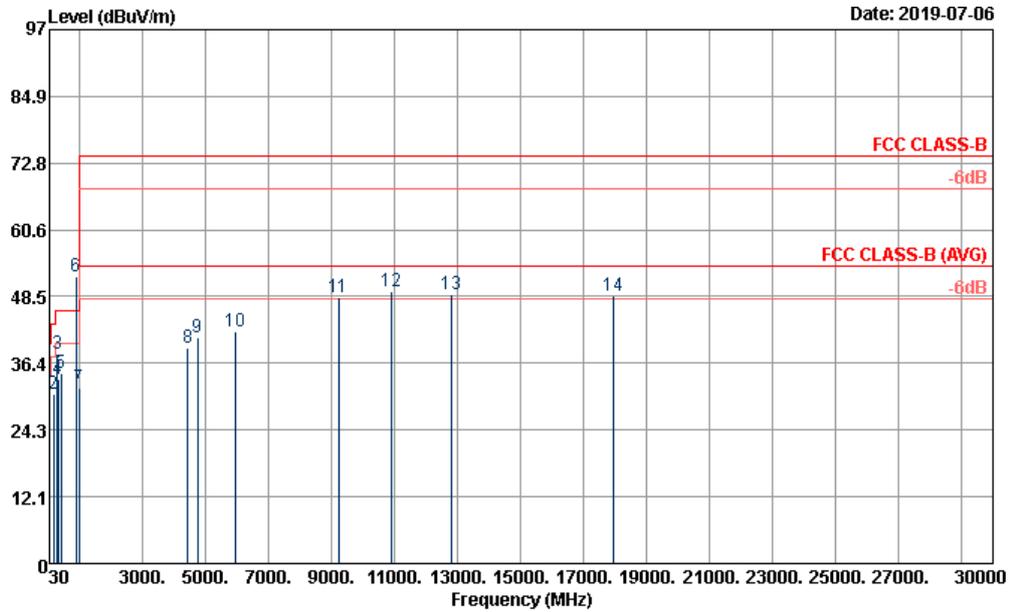


Site : 03CH06-HY  
 Condition : FCC CLASS-B 3m 9120D\_1156\_180824 VERTICAL

	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	41.34	25.86	-14.14	40.00	38.59	18.28	0.62	31.63	---	---	Peak
2	146.64	29.26	-14.24	43.50	42.32	17.19	1.36	31.61	---	---	Peak
3	177.69	29.68	-13.82	43.50	44.59	15.13	1.54	31.58	100	245	Peak
4	569.50	25.60	-20.40	46.00	28.86	25.66	2.91	31.83	---	---	Peak
5	661.20	29.99	-16.01	46.00	32.59	26.18	3.07	31.85	---	---	Peak
6 *	741.00	51.41			52.20	27.69	3.32	31.80	---	---	Peak
7	959.40	32.13	-13.87	46.00	28.09	30.85	3.98	30.79	---	---	Peak
8	4575.00	39.46	-34.54	74.00	58.98	30.73	9.38	60.19	---	---	Peak
9	5120.00	40.58	-33.42	74.00	56.75	31.80	9.60	58.07	---	---	Peak
10	5970.00	42.28	-31.72	74.00	55.90	32.57	11.23	58.15	---	---	Peak
11	9339.00	48.14	-25.86	74.00	51.81	38.80	14.20	58.18	---	---	Peak
12	11530.00	49.00	-25.00	74.00	48.59	39.87	15.51	56.15	100	137	Peak
13	12825.00	48.29	-25.71	74.00	49.96	39.13	16.78	58.73	---	---	Peak
14	17425.00	48.32	-25.68	74.00	41.09	41.87	21.24	55.88	---	---	Peak



Mode :	Mode 5	Temperature :	24~26°C
Test Engineer :	Brad Liu, Yuan Lee, Eric Jeng, Nick Yu	Relative Humidity :	48~50%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#6 is system simulator signal which can be ignored.		

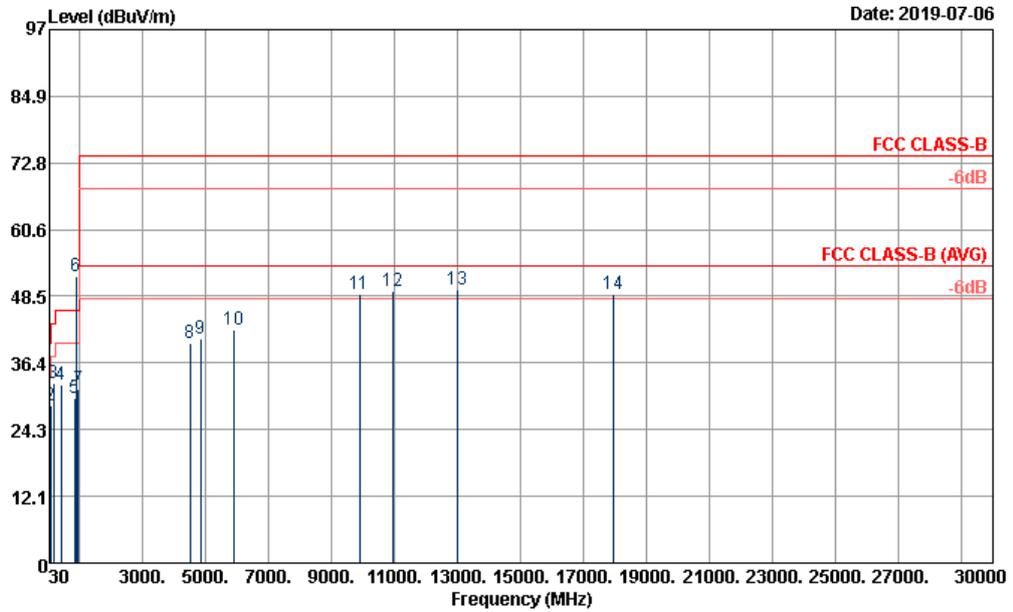


Site : 03CH06-HY  
 Condition : FCC CLASS-B 3m 9120B\_1156\_180824 HORIZONTAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg		
1	37.83	23.75	-16.25	40.00	34.34	20.42	0.62	31.63	---	---	Peak
2	161.76	30.87	-12.63	43.50	44.68	16.36	1.43	31.60	---	---	Peak
3	289.74	38.07	-7.93	46.00	48.62	18.95	2.04	31.54	100	140	Peak
4	300.00	33.50	-12.50	46.00	43.84	19.16	2.04	31.54	---	---	Peak
5	400.10	34.48	-11.52	46.00	42.05	21.71	2.39	31.67	---	---	Peak
6 *	869.10	52.10			50.96	28.97	3.61	31.44	---	---	Peak
7	959.40	31.78	-14.22	46.00	27.74	30.85	3.98	30.79	---	---	Peak
8	4430.00	39.21	-34.79	74.00	59.32	30.47	9.54	60.65	---	---	Peak
9	4735.00	41.09	-32.91	74.00	59.38	31.00	9.62	59.46	---	---	Peak
10	5925.00	42.21	-31.79	74.00	55.94	32.53	11.14	58.08	---	---	Peak
11	9206.00	48.39	-25.61	74.00	52.44	38.57	13.91	58.07	---	---	Peak
12	10914.00	49.37	-24.63	74.00	49.33	40.42	15.11	56.69	100	48	Peak
13	12818.00	48.82	-25.18	74.00	50.52	39.12	16.75	58.72	---	---	Peak
14	17930.00	48.65	-25.35	74.00	34.57	46.83	22.00	54.75	---	---	Peak



Mode :	Mode 5	Temperature :	24~26°C
Test Engineer :	Brad Liu, Yuan Lee, Eric Jeng, Nick Yu	Relative Humidity :	48~50%
Test Distance :	3m	Polarization :	Vertical
Remark :	#6 is system simulator signal which can be ignored.		

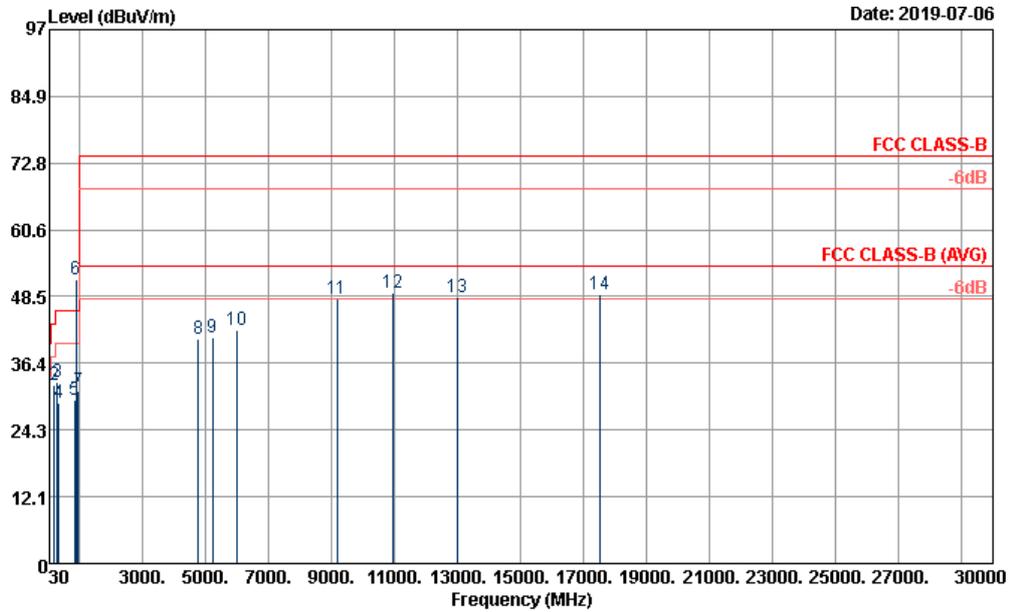


Site : 03CH06-HY  
 Condition : FCC CLASS-B 3m 9120D\_1156\_180824 VERTICAL

	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	38.37	31.35	-8.65	40.00	42.48	19.88	0.62	31.63	100	340 Peak	
2	57.27	28.64	-11.36	40.00	47.31	12.12	0.84	31.63	---	---	Peak
3	161.76	32.73	-10.77	43.50	46.54	16.36	1.43	31.60	---	---	Peak
4	400.10	32.29	-13.71	46.00	39.86	21.71	2.39	31.67	---	---	Peak
5	830.60	29.90	-16.10	46.00	29.77	28.16	3.55	31.58	---	---	Peak
6 *	869.10	52.01			50.87	28.97	3.61	31.44	---	---	Peak
7	949.60	31.68	-14.32	46.00	28.43	30.33	3.79	30.87	---	---	Peak
8	4490.00	39.92	-34.08	74.00	59.94	30.50	9.46	60.53	---	---	Peak
9	4820.00	40.78	-33.22	74.00	58.49	31.05	9.79	59.09	---	---	Peak
10	5885.00	42.45	-31.55	74.00	56.39	32.37	11.06	58.00	---	---	Peak
11	9878.00	48.95	-25.05	74.00	51.91	39.23	14.71	58.22	---	---	Peak
12	10942.00	49.38	-24.62	74.00	49.24	40.45	15.12	56.63	---	---	Peak
13	12993.00	49.78	-24.22	74.00	51.37	39.20	16.96	58.90	100	138 Peak	
14	17925.00	49.03	-24.97	74.00	34.95	46.83	22.00	54.75	---	---	Peak



Mode :	Mode 6	Temperature :	24~26°C
Test Engineer :	Brad Liu, Yuan Lee, Eric Jeng, Nick Yu	Relative Humidity :	48~50%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#6 is system simulator signal which can be ignored.		

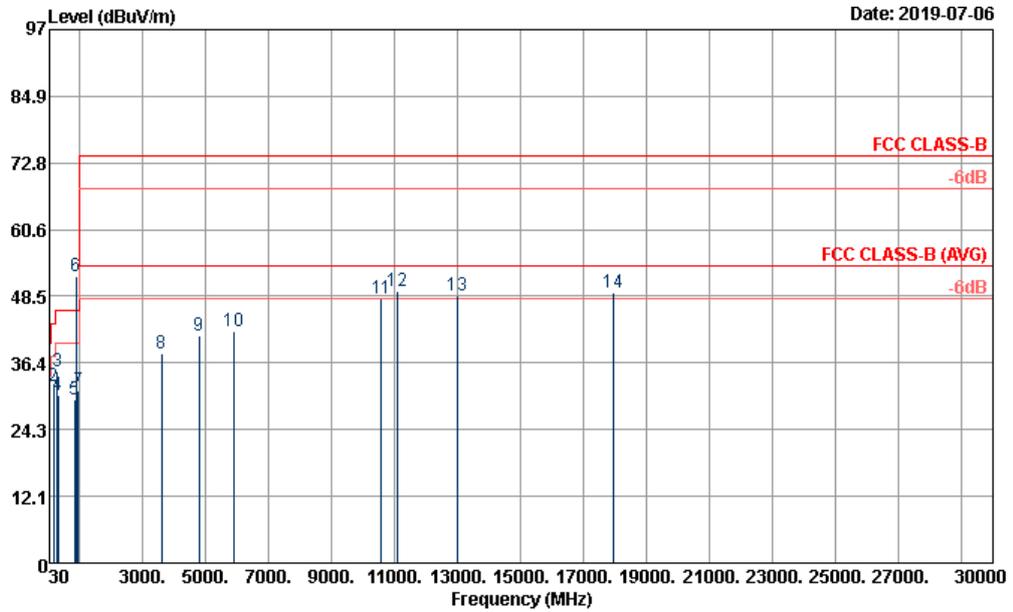


Site : 03CH06-HY  
 Condition : FCC CLASS-B 3m 9120B\_1156\_180824 HORIZONTAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	A/Pos	T/Pos	Remark	
	MHz	dBUV/m	dB	dBUV/m	dBuV	dB/m	dB	cm	deg		
1	30.81	31.21	-8.79	40.00	38.14	24.09	0.62	31.64	100	69 Peak	
2	174.45	32.54	-10.96	43.50	47.33	15.26	1.54	31.59	---	---	Peak
3	281.64	32.84	-13.16	46.00	43.58	18.76	2.04	31.54	---	---	Peak
4	322.40	29.28	-16.72	46.00	39.26	19.47	2.12	31.57	---	---	Peak
5	825.00	29.84	-16.16	46.00	29.90	27.99	3.55	31.60	---	---	Peak
6 *	881.70	51.50			50.78	28.44	3.67	31.39	---	---	Peak
7	953.10	31.29	-14.71	46.00	27.61	30.54	3.98	30.84	---	---	Peak
8	4755.00	40.87	-33.13	74.00	59.04	31.00	9.68	59.40	---	---	Peak
9	5210.00	41.00	-33.00	74.00	56.80	31.30	10.13	57.87	---	---	Peak
10	6000.00	42.35	-31.65	74.00	56.02	32.50	11.27	58.20	---	---	Peak
11	9171.00	48.18	-25.82	74.00	52.33	38.43	13.93	58.04	---	---	Peak
12	10921.00	49.23	-24.77	74.00	49.15	40.43	15.11	56.66	100	49	Peak
13	13000.00	48.49	-25.51	74.00	50.08	39.20	16.96	58.90	---	---	Peak
14	17510.00	48.94	-25.06	74.00	41.20	42.20	21.36	55.82	---	---	Peak



Mode :	Mode 6	Temperature :	24~26°C
Test Engineer :	Brad Liu, Yuan Lee, Eric Jeng, Nick Yu	Relative Humidity :	48~50%
Test Distance :	3m	Polarization :	Vertical
Remark :	#6 is system simulator signal which can be ignored.		

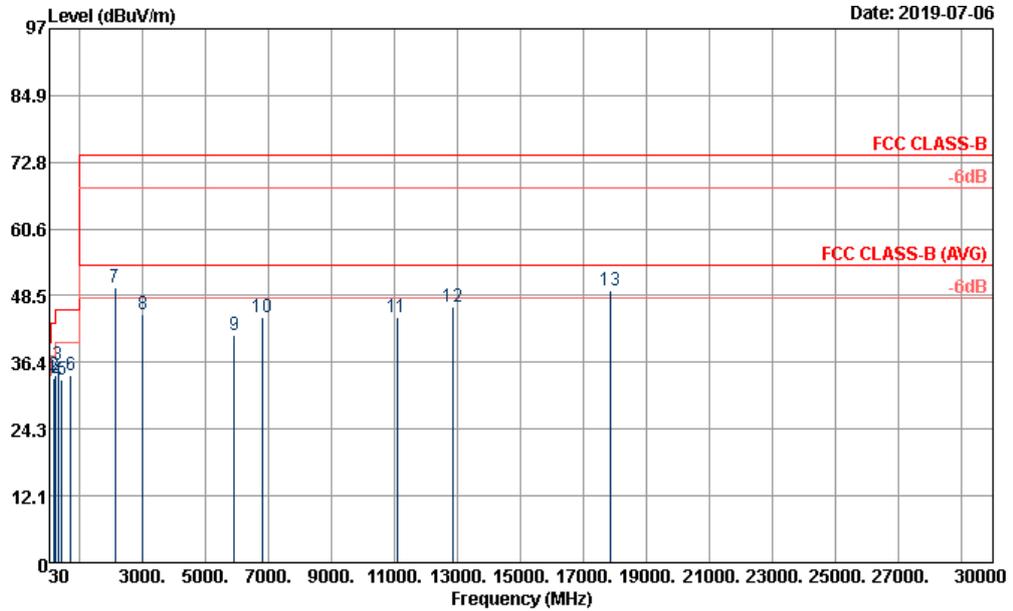


Site : 03CH06-HY  
 Condition : FCC CLASS-B 3m 9120D\_1156\_180824 VERTICAL

	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	30.54	36.87	-3.13	40.00	43.80	24.09	0.62	31.64	100	355 QP
2	158.52	32.27	-11.23	43.50	45.77	16.67	1.43	31.60	---	---
3	281.91	34.95	-11.05	46.00	45.67	18.78	2.04	31.54	---	---
4	302.10	30.46	-15.54	46.00	40.76	19.20	2.04	31.54	---	---
5	832.00	29.74	-16.26	46.00	29.53	28.23	3.55	31.57	---	---
6	881.70	52.27			51.55	28.44	3.67	31.39	---	---
7	958.00	31.44	-14.56	46.00	27.46	30.80	3.98	30.80	---	---
8	3600.00	37.99	-36.01	74.00	61.46	29.20	8.36	61.60	---	---
9	4790.00	41.37	-32.63	74.00	59.32	31.00	9.73	59.22	---	---
10	5900.00	42.28	-31.72	74.00	56.16	32.40	11.10	58.03	---	---
11	10571.00	48.09	-25.91	74.00	49.43	40.00	14.89	57.44	---	---
12	11103.00	49.42	-24.58	74.00	49.32	40.10	15.22	56.41	100	184 Peak
13	12979.00	48.66	-25.34	74.00	50.24	39.20	16.96	58.89	---	---
14	17950.00	49.26	-24.74	74.00	34.78	47.15	22.04	54.71	---	---



Mode :	Mode 7	Temperature :	24~26°C
Test Engineer :	Brad Liu, Yuan Lee, Eric Jeng, Nick Yu	Relative Humidity :	48~50%
Test Distance :	3m	Polarization :	Horizontal



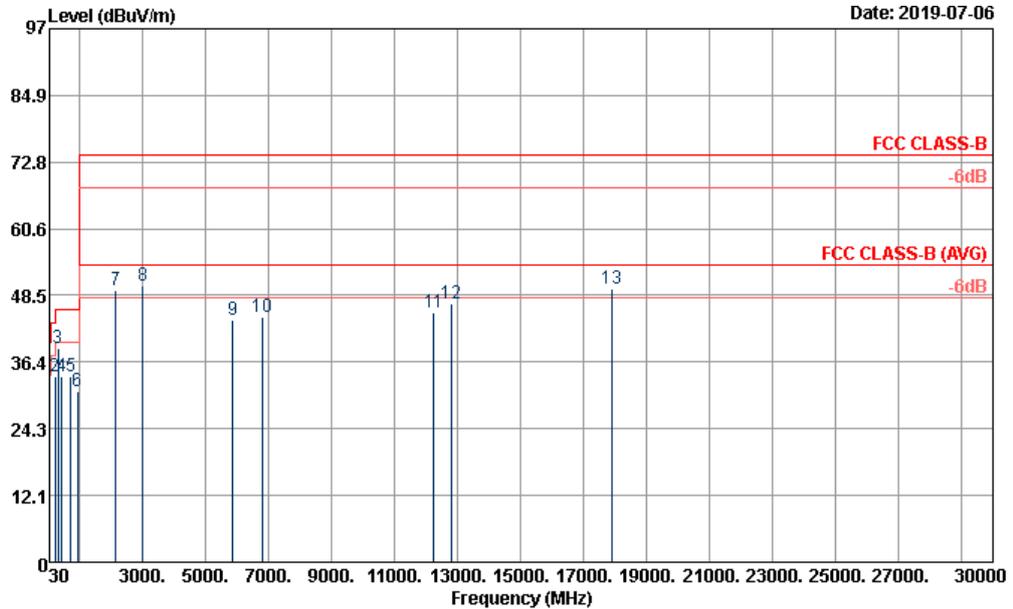
Site : 03CH06-HY  
 Condition : FCC CLASS-B 3m 9120D\_1156\_180824 HORIZONTAL

: NB to SD

	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	168.78	33.60	-9.90	43.50	47.86	15.90	1.43	31.59	---	---	Peak
2	200.91	34.09	-9.41	43.50	48.17	15.86	1.62	31.56	100	0	Peak
3	294.33	35.93	-10.07	46.00	46.03	19.40	2.04	31.54	---	---	Peak
4	300.00	32.95	-13.05	46.00	42.95	19.50	2.04	31.54	---	---	Peak
5	421.80	33.10	-12.90	46.00	39.58	22.76	2.46	31.70	---	---	Peak
6	711.60	34.07	-11.93	46.00	36.10	26.54	3.28	31.85	---	---	Peak
7	2125.00	50.01	-23.99	74.00	75.90	27.40	6.11	59.40	100	0	Peak
8	3005.00	45.11	-28.89	74.00	68.73	28.50	7.24	59.36	---	---	Peak
9	5905.00	41.34	-32.66	74.00	53.84	32.47	11.10	56.07	---	---	Peak
10	6777.00	44.64	-29.36	74.00	53.73	34.40	13.84	57.33	---	---	Peak
11	11082.00	44.67	-29.33	74.00	47.45	40.17	15.22	58.17	---	---	Peak
12	12839.00	46.48	-27.52	74.00	48.37	39.13	16.78	57.80	---	---	Peak
13	17865.00	49.39	-24.61	74.00	36.76	45.63	21.92	54.92	---	---	Peak



Mode :	Mode 7	Temperature :	24~26°C
Test Engineer :	Brad Liu, Yuan Lee, Eric Jeng, Nick Yu	Relative Humidity :	48~50%
Test Distance :	3m	Polarization :	Vertical



Site : 03CH06-HY  
 Condition : FCC CLASS-B 3m 9120D\_1156\_180824 VERTICAL

: NB to SD

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg		
1	31.35	30.46	-9.54	40.00	36.18	25.30	0.62	31.64	---	---	Peak
2	201.72	33.72	-9.78	43.50	47.74	15.92	1.62	31.56	---	---	Peak
3	292.17	38.77	-7.23	46.00	48.87	19.40	2.04	31.54	100	23	Peak
4	430.90	33.85	-12.15	46.00	40.41	22.70	2.46	31.72	---	---	Peak
5	713.70	33.69	-12.31	46.00	35.67	26.58	3.28	31.84	---	---	Peak
6	934.20	31.19	-14.81	46.00	28.84	29.58	3.79	31.02	---	---	Peak
7	2130.00	49.53	-24.47	74.00	75.42	27.40	6.11	59.40	---	---	Peak
8	3005.00	50.31	-23.69	74.00	73.93	28.50	7.24	59.36	100	0	Peak
9	5860.00	44.01	-29.99	74.00	56.83	32.33	11.02	56.17	---	---	Peak
10	6812.00	44.66	-29.34	74.00	53.59	34.50	14.02	57.45	---	---	Peak
11	12244.00	45.34	-28.66	74.00	47.42	38.87	16.08	57.03	---	---	Peak
12	12818.00	47.07	-26.93	74.00	48.97	39.12	16.75	57.77	---	---	Peak
13	17895.00	49.75	-24.25	74.00	36.43	46.20	21.96	54.84	---	---	Peak

—————THE END—————