FCC EMI TEST REPORT

FCC ID	:	**PY7-45077R**
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 Nov. 13, 2019 and testing was started from Dec. 30, 2019 and completed on Jan. 11, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 and has been in compliance with the applicable technical standards.

The 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.

Louis Wu

Approved by: Louis Wu

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

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History of this test report

Report No.	Version	Description	Issued Date
FC9O1524-02	01	Initial issue of report	Feb. 03, 2020

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.107	AC Conducted Emission	Pass	Under limit 8.18 dB at 0.188 MHz
3.2	15.109	Radiated Emission	Pass	Under limit 3.24 dB at 49.400 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: Dara Chiu

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: Inverted-F Type Antenna WLAN: Inverted-F Type Antenna Bluetooth: Inverted-F Type Antenna GPS/Glonass/Galileo/ BDS: Loop Antenna NFC: Loop Antenna

EUT Information List			
HW Version	SW Version	S/N	Performed Test Item
A	2.39	BH95000VJL	Conducted Emission Radiated Emission

Accessory List	
AC Adapter	Model Name : UCH20
	S/N: 3515W45302494 (for Conducted Emission) 3515W45302520 (for Radiated Emission)
Earphone	Model Name : STH40D
	S/N : N/A
Bluetooth Earphone	Model Name : SBH82D
	S/N : N/A
USB Cable	Model Name : UCB20
	S/N : N/A

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.

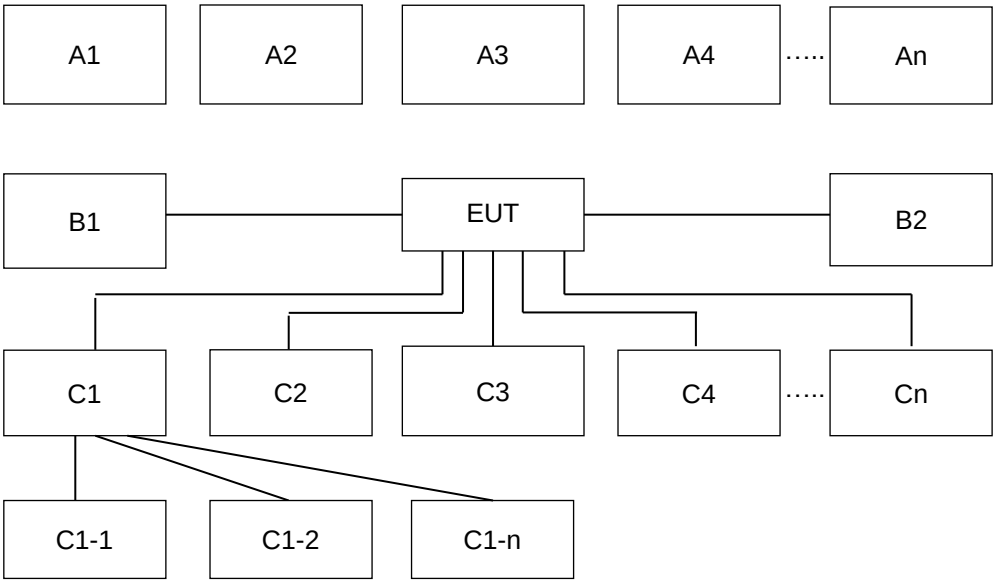
2. Test Configuration of Equipment Under Test

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 + Camera (Front) + Earphone + USB Cable (Charging from Adapter) + Battery Mode 2 : GSM850 (Middle Channel) Idle + Bluetooth Idle + WLAN (5GHz) Idle + Camera (Rear) + Earphone + USB Cable (Charging from Adapter) + Battery Mode 3 : GSM850 (High Channel) Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + MPEG4 + Earphone + USB Cable (Charging from Adapter) + Battery Mode 4 : LTE Band 12 (Low Channel) Idle + Bluetooth Idle + WLAN (5GHz) Idle + FM (88MHz) + Earphone + USB Cable (Charging from Adapter) + Battery Mode 5 : LTE Band 12 (Middle Channel) Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + GPS RX + Earphone + USB Cable (Charging from Adapter) + Battery Mode 6 : LTE Band 12 (High Channel) Idle + Bluetooth Idle + WLAN (5GHz) Idle + NFC On + Earphone + USB Cable (Charging from Adapter) + Battery Mode 7 : Flight Mode + Earphone + USB Cable (Data Link with Notebook) + Battery
Radiated Emissions	Mode 1 : GSM850 (Low Channel) Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + Camera (Front) + Earphone + USB Cable (Charging from Adapter) + Battery Mode 2 : GSM850 (Middle Channel) Idle + Bluetooth Idle + WLAN (5GHz) Idle + Camera (Rear) + Earphone + USB Cable (Charging from Adapter) + Battery Mode 3 : GSM850 (High Channel) Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + MPEG4 + Earphone + USB Cable (Charging from Adapter) + Battery Mode 4 : LTE Band 12 (Low Channel) Idle + Bluetooth Idle + WLAN (5GHz) Idle + FM (88MHz) + Earphone + USB Cable (Charging from Adapter) + Battery Mode 5 : LTE Band 12 (Middle Channel) Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + GPS RX + Earphone + USB Cable (Charging from Adapter) + Battery Mode 6 : LTE Band 12 (High Channel) Idle + Bluetooth Idle + WLAN (5GHz) Idle + NFC On + Earphone + USB Cable (Charging from Adapter) + Battery Mode 7 : Flight Mode + Earphone + USB Cable (Data Link with Notebook) + Battery
Remark: **1.** Data Linking with Notebook means data application transferred mode between EUT and Notebook. **2.** For radiation emission after pre-scanned the cellular band and FM receiver between 30MHz ~ 960MHz (GSM850/WCDMA Band V/LTE Band 5/12/FM 88/98/108 MHz), only the worst case for cellular band test data of this mode was reported.	

2.2. Connection Diagram of Test System



Test Setup								
No.	Wireless Station	Connection Type	Test Mode						
			1	2	3	4	5	6	7
A1	BT Earphone	Bluetooth	X	X	X	X	X	X	-
A2	System Simulator	GSM GSM/UMTS/CDMA/ WCDMA/LTE /LTE	X	X	X	X	X	X	-
A3	GPS Station	GPS	-	-	-	-	X	-	-
A4	AP router	WiFi	X	X	X	X	X	X	-
A5	System Simulator	LTE	-	-	-	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	iPod	USB Cable to C1	-	-	-	-	-	-	X
C1-2	AP router	RJ-45 Cable to C1	-	-	-	-	-	-	X
C2	Earphone	Earphone jack	X	X	X	X	X	X	X
C3	SD card	SD I/O interface without Cable	X	X	X	X	X	X	X

2.3. Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	8820C	N/A	N/A	Unshielded, 1.8 m
2.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
3.	System Simulator	R&S	CMW 500	N/A	N/A	Unshielded, 1.8 m
4.	GPS Station	Pendulum	GSG-54	N/A	N/A	Unshielded, 1.8 m
5.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
6.	Music Player	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A
7.	Notebook	DELL	Latitude E3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
8.	Notebook	DELL	Latitude E5480	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
9.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

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. Turn on FM receiver function.
7. 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.

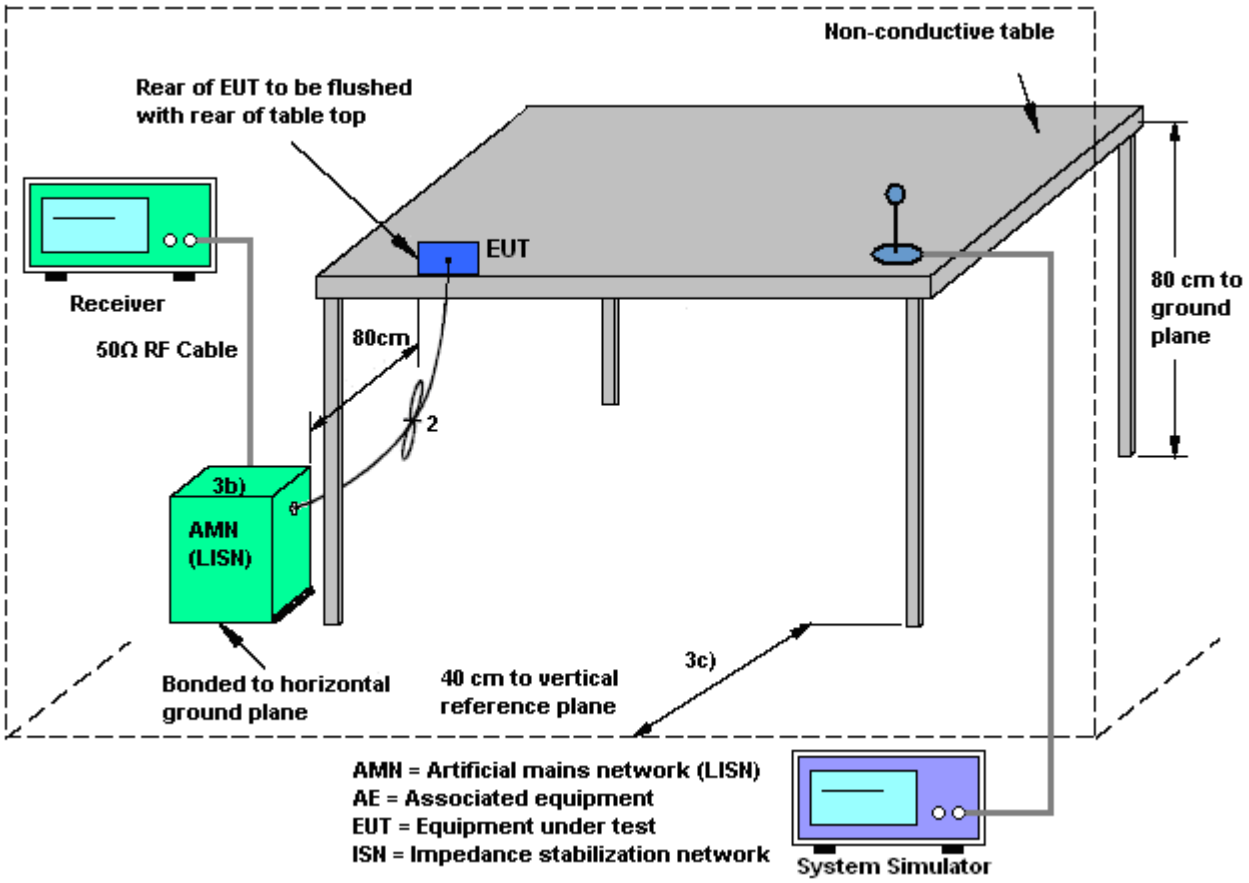
3.1.2 Measuring Instruments

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

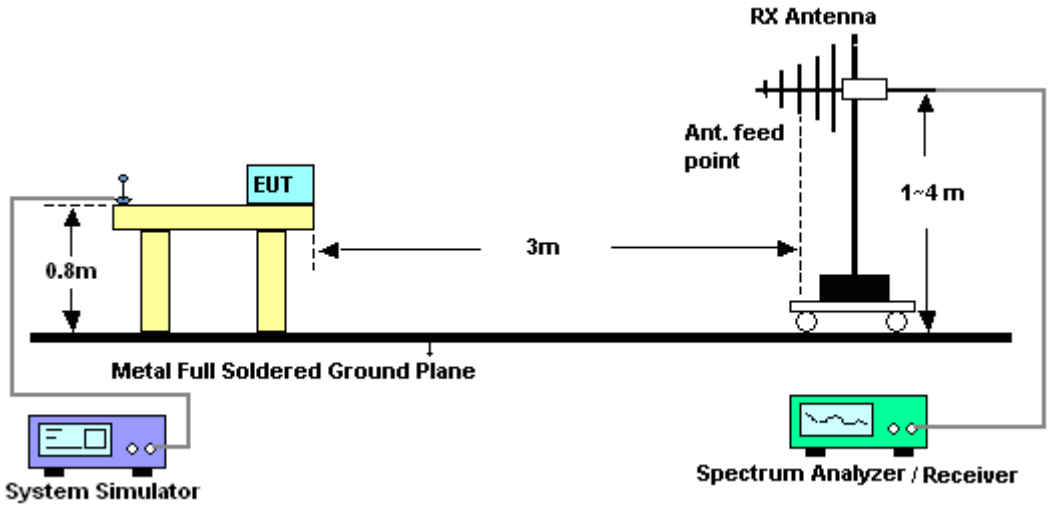
Refer a test equipment and calibration data table in this test report.

3.2.3. Test Procedures

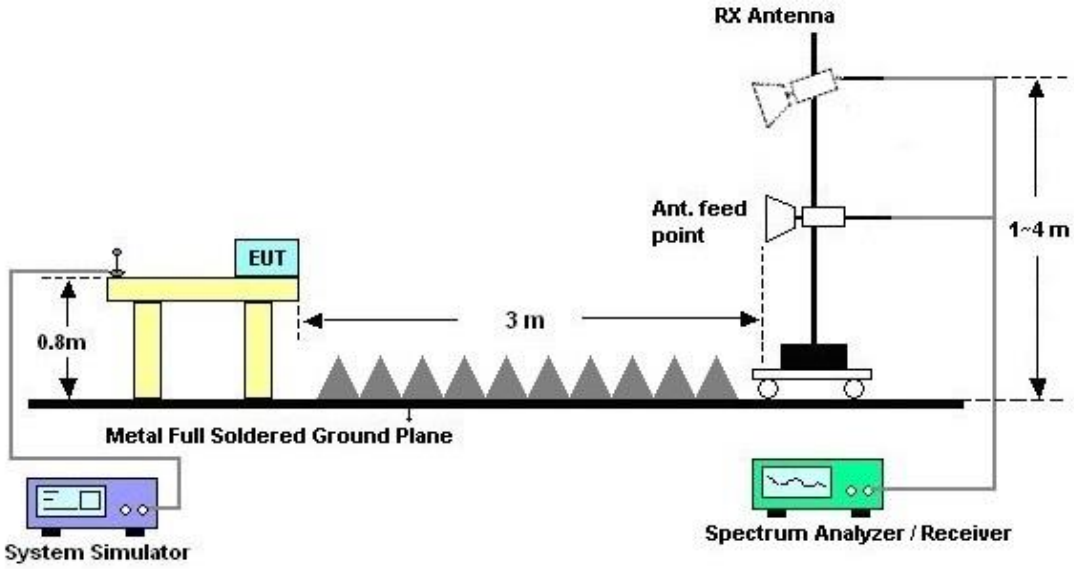
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna 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
Amplifier	SONOMA	310N	187311	9kHz~1GHz	Oct. 22, 2019	Jan. 06, 2020~ Jan. 11, 2020	Oct. 21, 2020	Radiation (03CH10-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	35413 & 02	30MHz~1GHz	Feb. 12, 2019	Jan. 06, 2020~ Jan. 11, 2020	Feb. 11, 2020	Radiation (03CH10-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1325	1GHz~18GHz	Oct. 09, 2019	Jan. 06, 2020~ Jan. 11, 2020	Oct. 08, 2020	Radiation (03CH10-HY)
Preamplifier	Jet-Power	JAP00101800-30-10P	160118550004	1GHz~18GHz	Sep. 27, 2019	Jan. 06, 2020~ Jan. 11, 2020	Sep. 26, 2020	Radiation (03CH10-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Jan. 06, 2020~ Jan. 11, 2020	N/A	Radiation (03CH10-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Jan. 06, 2020~ Jan. 11, 2020	N/A	Radiation (03CH10-HY)
Turn Table	EMEC	TT 2200	N/A	0~360 Degree	N/A	Jan. 06, 2020~ Jan. 11, 2020	N/A	Radiation (03CH10-HY)
Software	Audix	E3 6.2009-8-24	RK-001042	N/A	N/A	Jan. 06, 2020~ Jan. 11, 2020	N/A	Radiation (03CH10-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290045	20MHz~8.4GHz	Jan. 19, 2019	Jan. 06, 2020~ Jan. 11, 2020	Jan. 18, 2020	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104 / 102	MY11692/4PE, MY11693/4PE, MY2855/2	30MHz~1GHz	Nov. 07, 2019	Jan. 06, 2020~ Jan. 11, 2020	Nov. 06, 2020	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104 / 102	MY11692/4PE, MY11693/4PE, MY2855/2	1GHz~18GHz	Nov. 07, 2019	Jan. 06, 2020~ Jan. 11, 2020	Nov. 06, 2020	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30MHz-40GHz	Mar. 13, 2019	Jan. 06, 2020~ Jan. 11, 2020	Mar. 12, 2020	Radiation (03CH10-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170576	18GHz- 40GHz	May 14, 2019	Jan. 06, 2020~ Jan. 11, 2020	May 13, 2020	Radiation (03CH10-HY)
Signal Analyzer	R&S	FSV3044	101009	10Hz~44GHz	Nov. 11, 2019	Jan. 06, 2020~ Jan. 11, 2020	Nov. 10, 2020	Radiation (03CH10-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 13, 2019	Jan. 06, 2020~ Jan. 11, 2020	Dec. 12, 2020	Radiation (03CH10-HY)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Dec. 30, 2019~ Dec. 31, 2019	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 15, 2019	Dec. 30, 2019~ Dec. 31, 2019	Nov. 14, 2020	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Mar. 19, 2019	Dec. 30, 2019~ Dec. 31, 2019	Mar. 18, 2020	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 20, 2019	Dec. 30, 2019~ Dec. 31, 2019	Nov. 19, 2020	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 15, 2019	Dec. 30, 2019~ Dec. 31, 2019	Nov. 14, 2020	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Dec. 30, 2019~ Dec. 31, 2019	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 03, 2019	Dec. 30, 2019~ Dec. 31, 2019	Jan. 02, 2020	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 03, 2019	Dec. 30, 2019~ Dec. 31, 2019	Jan. 02, 2020	Conduction (CO05-HY)

5. Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.0**

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

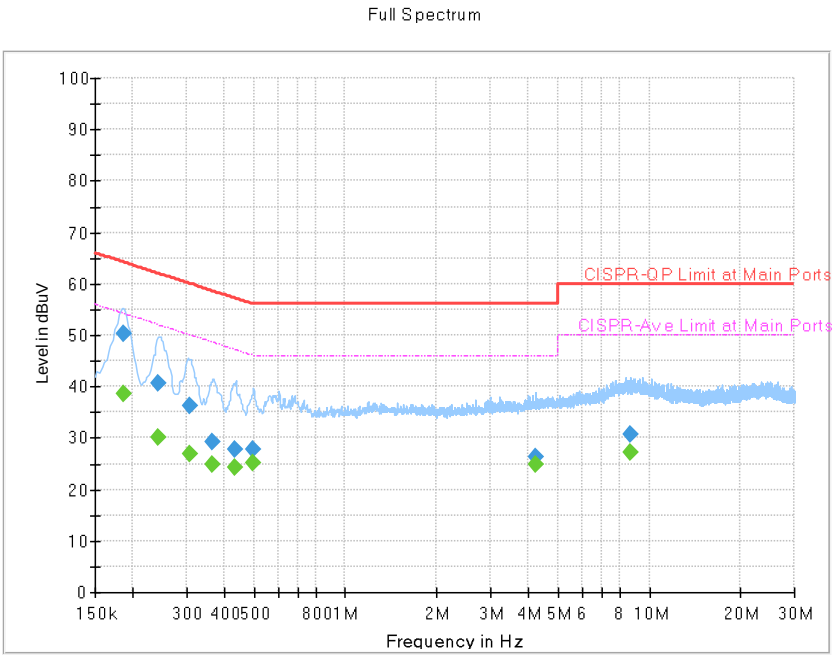
Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.8**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.3**

Appendix A. AC Conducted Emission Test Results

Test Mode :	Mode 1	**Temperature :**	22~25℃
Test Engineer :	Tom Lee	**Relative Humidity :**	45~51%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

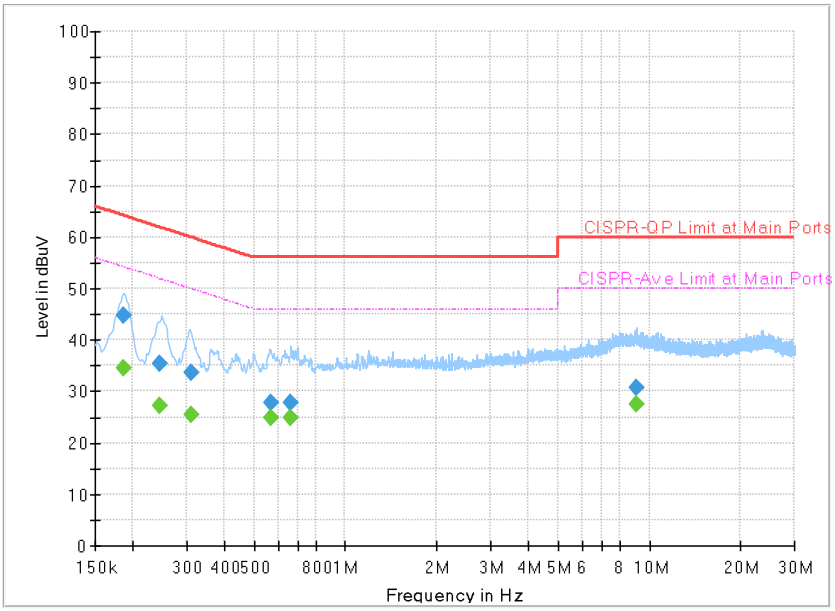


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.185370	---	38.71	54.24	15.53	L1	OFF	19.5
0.185370	50.24	---	64.24	14.00	L1	OFF	19.5
0.242250	---	30.20	52.02	21.82	L1	OFF	19.5
0.242250	40.51	---	62.02	21.51	L1	OFF	19.5
0.307500	---	26.86	50.04	23.18	L1	OFF	19.5
0.307500	36.20	---	60.04	23.84	L1	OFF	19.5
0.362760	---	24.91	48.67	23.76	L1	OFF	19.5
0.362760	29.17	---	58.67	29.50	L1	OFF	19.5
0.431250	---	24.31	47.23	22.92	L1	OFF	19.5
0.431250	27.89	---	57.23	29.34	L1	OFF	19.5
0.494250	---	25.19	46.10	20.91	L1	OFF	19.5
0.494250	27.73	---	56.10	28.37	L1	OFF	19.5
4.222500	---	24.91	46.00	21.09	L1	OFF	19.7
4.222500	26.23	---	56.00	29.77	L1	OFF	19.7
8.687940	---	27.31	50.00	22.69	L1	OFF	19.8
8.687940	30.72	---	60.00	29.28	L1	OFF	19.8

Test Mode :	Mode 1	Temperature :	22~25℃
Test Engineer :	Tom Lee	Relative Humidity :	45~51%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

Full Spectrum

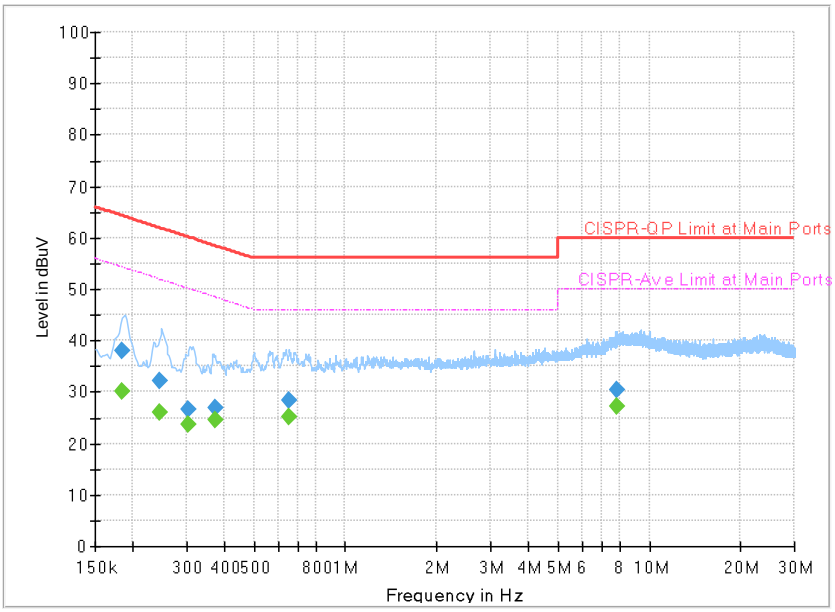


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.186810	---	34.52	54.18	19.66	N	OFF	19.5
0.186810	44.77	---	64.18	19.41	N	OFF	19.5
0.244500	---	27.22	51.94	24.72	N	OFF	19.5
0.244500	35.25	---	61.94	26.69	N	OFF	19.5
0.312000	---	25.34	49.92	24.58	N	OFF	19.5
0.312000	33.51	---	59.92	26.41	N	OFF	19.5
0.568500	---	24.78	46.00	21.22	N	OFF	19.6
0.568500	27.78	---	56.00	28.22	N	OFF	19.6
0.658500	---	24.94	46.00	21.06	N	OFF	19.6
0.658500	27.91	---	56.00	28.09	N	OFF	19.6
9.111750	---	27.35	50.00	22.65	N	OFF	19.9
9.111750	30.63	---	60.00	29.37	N	OFF	19.9

Test Mode :	Mode 2	**Temperature :**	22~25℃
Test Engineer :	Tom Lee	**Relative Humidity :**	45~51%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

Full Spectrum

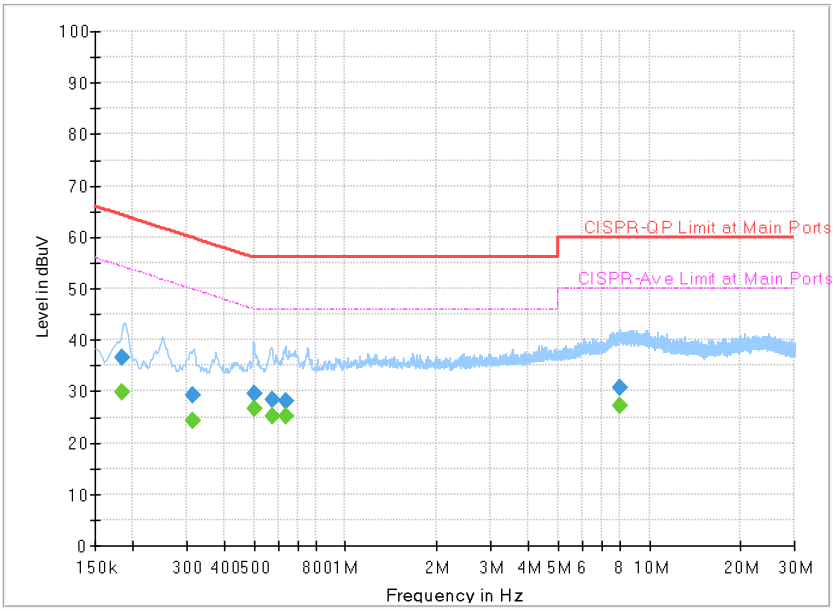


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.184470	---	30.10	54.28	24.18	L1	OFF	19.5
0.184470	38.10	---	64.28	26.18	L1	OFF	19.5
0.246210	---	25.94	51.88	25.94	L1	OFF	19.5
0.246210	32.20	---	61.88	29.68	L1	OFF	19.5
0.303000	---	23.62	50.16	26.54	L1	OFF	19.5
0.303000	26.64	---	60.16	33.52	L1	OFF	19.5
0.371310	---	24.58	48.47	23.89	L1	OFF	19.5
0.371310	26.78	---	58.47	31.69	L1	OFF	19.5
0.654540	---	25.23	46.00	20.77	L1	OFF	19.5
0.654540	28.47	---	56.00	27.53	L1	OFF	19.5
7.809360	---	27.17	50.00	22.83	L1	OFF	19.8
7.809360	30.44	---	60.00	29.56	L1	OFF	19.8

Test Mode :	Mode 2	Temperature :	22~25℃
Test Engineer :	Tom Lee	Relative Humidity :	45~51%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

Full Spectrum

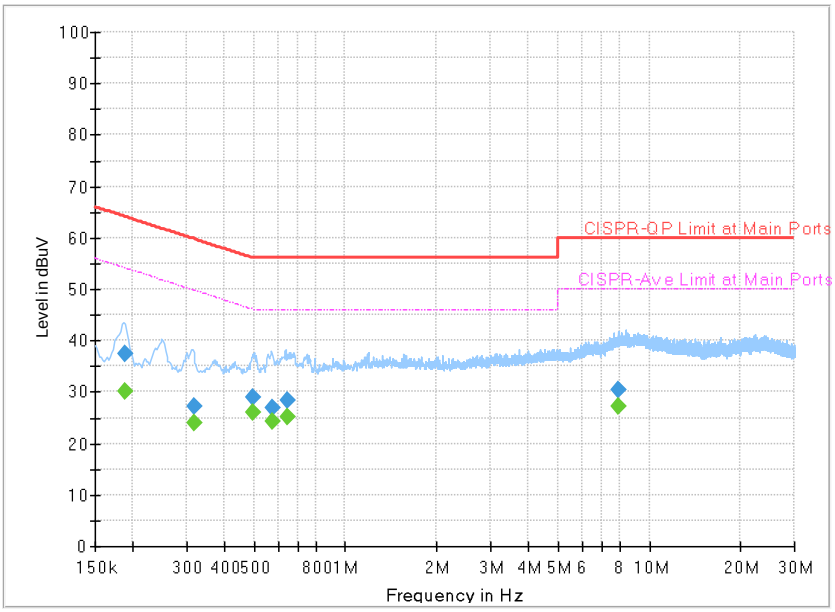


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.185100	---	29.74	54.25	24.51	N	OFF	19.5
0.185100	36.48	---	64.25	27.77	N	OFF	19.5
0.313260	---	24.28	49.88	25.60	N	OFF	19.5
0.313260	29.24	---	59.88	30.64	N	OFF	19.5
0.501990	---	26.73	46.00	19.27	N	OFF	19.6
0.501990	29.49	---	56.00	26.51	N	OFF	19.6
0.573000	---	25.22	46.00	20.78	N	OFF	19.6
0.573000	28.41	---	56.00	27.59	N	OFF	19.6
0.640500	---	25.15	46.00	20.85	N	OFF	19.6
0.640500	27.97	---	56.00	28.03	N	OFF	19.6
8.022750	---	27.33	50.00	22.67	N	OFF	19.9
8.022750	30.82	---	60.00	29.18	N	OFF	19.9

Test Mode :	Mode 3	**Temperature :**	22~25℃
Test Engineer :	Tom Lee	**Relative Humidity :**	45~51%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

Full Spectrum

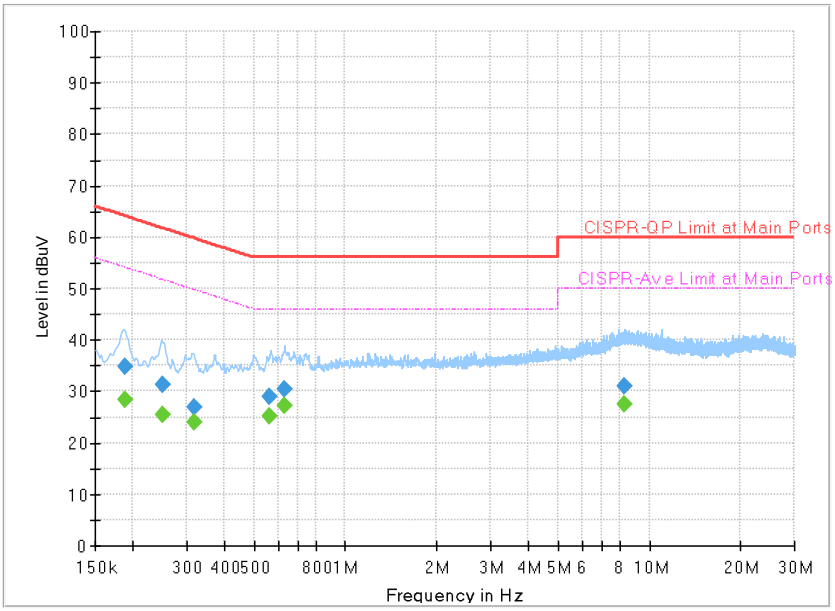


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.187350	---	30.01	54.15	24.14	L1	OFF	19.5
0.187350	37.55	---	64.15	26.60	L1	OFF	19.5
0.316500	---	23.88	49.80	25.92	L1	OFF	19.5
0.316500	27.25	---	59.80	32.55	L1	OFF	19.5
0.497400	---	25.99	46.04	20.05	L1	OFF	19.5
0.497400	28.86	---	56.04	27.18	L1	OFF	19.5
0.575250	---	24.38	46.00	21.62	L1	OFF	19.5
0.575250	26.99	---	56.00	29.01	L1	OFF	19.5
0.647250	---	25.04	46.00	20.96	L1	OFF	19.5
0.647250	28.41	---	56.00	27.59	L1	OFF	19.5
7.887750	---	27.30	50.00	22.70	L1	OFF	19.8
7.887750	30.45	---	60.00	29.55	L1	OFF	19.8

Test Mode :	Mode 3	Temperature :	22~25℃
Test Engineer :	Tom Lee	Relative Humidity :	45~51%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

Full Spectrum

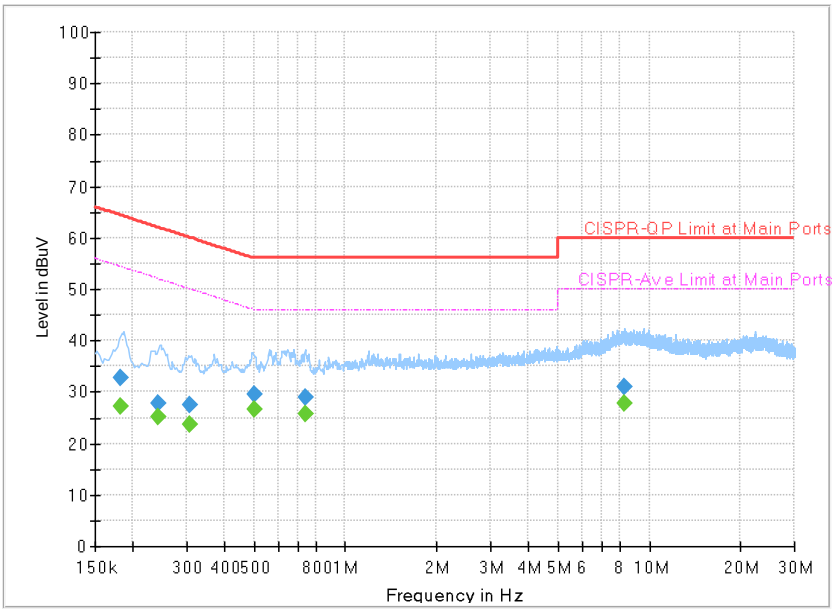


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.189150	---	28.49	54.07	25.58	N	OFF	19.5
0.189150	34.70	---	64.07	29.37	N	OFF	19.5
0.251250	---	25.37	51.72	26.35	N	OFF	19.5
0.251250	31.32	---	61.72	30.40	N	OFF	19.5
0.316500	---	23.90	49.80	25.90	N	OFF	19.5
0.316500	26.84	---	59.80	32.96	N	OFF	19.5
0.564000	---	25.20	46.00	20.80	N	OFF	19.6
0.564000	28.83	---	56.00	27.17	N	OFF	19.6
0.630690	---	27.16	46.00	18.84	N	OFF	19.6
0.630690	30.54	---	56.00	25.46	N	OFF	19.6
8.234700	---	27.55	50.00	22.45	N	OFF	19.9
8.234700	31.11	---	60.00	28.89	N	OFF	19.9

Test Mode :	Mode 4	**Temperature :**	22~25℃
Test Engineer :	Tom Lee	**Relative Humidity :**	45~51%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

Full Spectrum

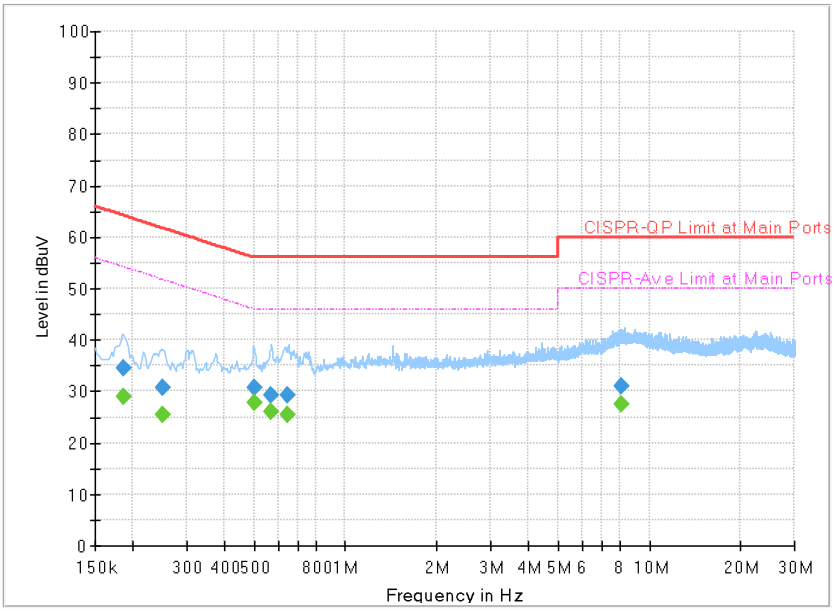


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.181500	---	27.22	54.42	27.20	L1	OFF	19.5
0.181500	32.69	---	64.42	31.73	L1	OFF	19.5
0.242250	---	25.03	52.02	26.99	L1	OFF	19.5
0.242250	27.85	---	62.02	34.17	L1	OFF	19.5
0.306780	---	23.82	50.06	26.24	L1	OFF	19.5
0.306780	27.42	---	60.06	32.64	L1	OFF	19.5
0.503250	---	26.73	46.00	19.27	L1	OFF	19.5
0.503250	29.51	---	56.00	26.49	L1	OFF	19.5
0.741390	---	25.69	46.00	20.31	L1	OFF	19.5
0.741390	29.07	---	56.00	26.93	L1	OFF	19.5
8.261250	---	27.65	50.00	22.35	L1	OFF	19.8
8.261250	30.99	---	60.00	29.01	L1	OFF	19.8

Test Mode :	Mode 4	Temperature :	22~25℃
Test Engineer :	Tom Lee	Relative Humidity :	45~51%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

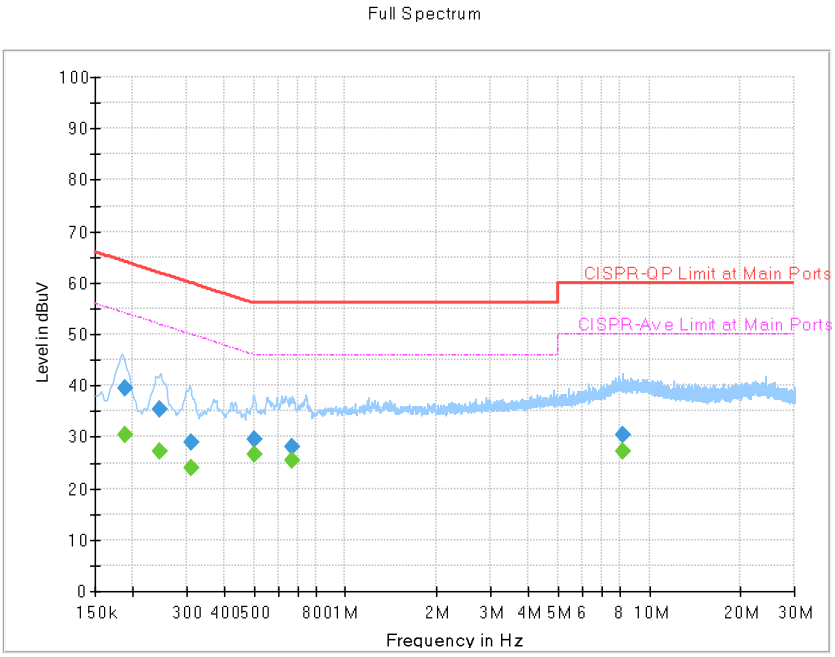
Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.185460	---	29.09	54.24	25.15	N	OFF	19.5
0.185460	34.64	---	64.24	29.60	N	OFF	19.5
0.249990	---	25.46	51.76	26.30	N	OFF	19.5
0.249990	30.82	---	61.76	30.94	N	OFF	19.5
0.500100	---	27.86	46.00	18.14	N	OFF	19.6
0.500100	30.83	---	56.00	25.17	N	OFF	19.6
0.570120	---	26.05	46.00	19.95	N	OFF	19.6
0.570120	29.22	---	56.00	26.78	N	OFF	19.6
0.645000	---	25.54	46.00	20.46	N	OFF	19.6
0.645000	29.36	---	56.00	26.64	N	OFF	19.6
8.130210	---	27.59	50.00	22.41	N	OFF	19.9
8.130210	31.10	---	60.00	28.90	N	OFF	19.9

Test Mode :	Mode 5	**Temperature :**	22~25℃
Test Engineer :	Tom Lee	**Relative Humidity :**	45~51%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

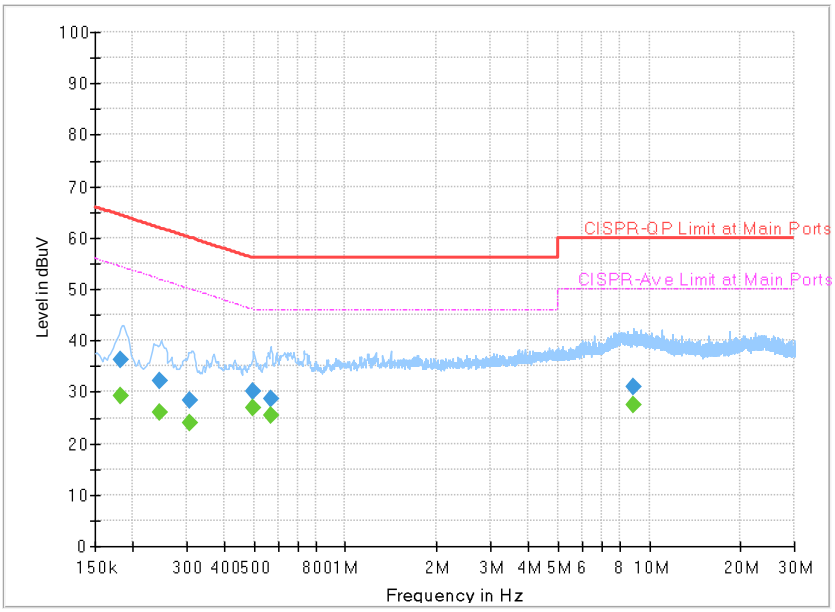


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.187440	---	30.46	54.15	23.69	L1	OFF	19.5
0.187440	39.34	---	64.15	24.81	L1	OFF	19.5
0.246030	---	27.28	51.89	24.61	L1	OFF	19.5
0.246030	35.39	---	61.89	26.50	L1	OFF	19.5
0.312000	---	24.04	49.92	25.88	L1	OFF	19.5
0.312000	28.91	---	59.92	31.01	L1	OFF	19.5
0.503250	---	26.68	46.00	19.32	L1	OFF	19.5
0.503250	29.39	---	56.00	26.61	L1	OFF	19.5
0.665070	---	25.31	46.00	20.69	L1	OFF	19.5
0.665070	28.14	---	56.00	27.86	L1	OFF	19.5
8.215350	---	27.28	50.00	22.72	L1	OFF	19.8
8.215350	30.48	---	60.00	29.52	L1	OFF	19.8

Test Mode :	Mode 5	**Temperature :**	22~25℃
Test Engineer :	Tom Lee	**Relative Humidity :**	45~51%
Test Voltage :	120Vac / 60Hz	**Phase :**	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

Full Spectrum

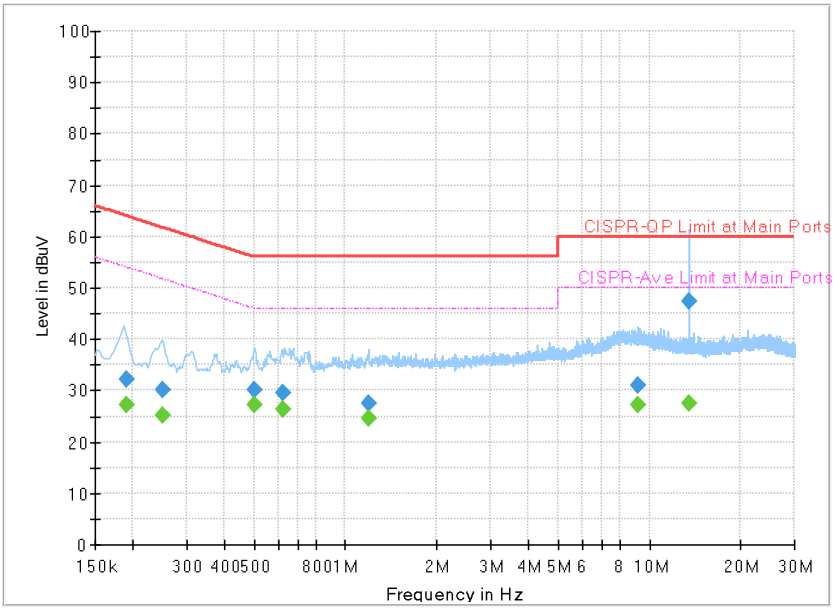


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.182670	---	29.19	54.36	25.17	N	OFF	19.5
0.182670	36.19	---	64.36	28.17	N	OFF	19.5
0.245220	---	26.13	51.92	25.79	N	OFF	19.5
0.245220	32.07	---	61.92	29.85	N	OFF	19.5
0.307500	---	24.10	50.04	25.94	N	OFF	19.5
0.307500	28.50	---	60.04	31.54	N	OFF	19.5
0.498030	---	26.98	46.03	19.05	N	OFF	19.6
0.498030	30.17	---	56.03	25.86	N	OFF	19.6
0.570480	---	25.38	46.00	20.62	N	OFF	19.6
0.570480	28.72	---	56.00	27.28	N	OFF	19.6
8.869200	---	27.45	50.00	22.55	N	OFF	19.9
8.869200	30.94	---	60.00	29.06	N	OFF	19.9

Test Mode :	Mode 6	Temperature :	22~25℃
Test Engineer :	Tom Lee	Relative Humidity :	45~51%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

Full Spectrum

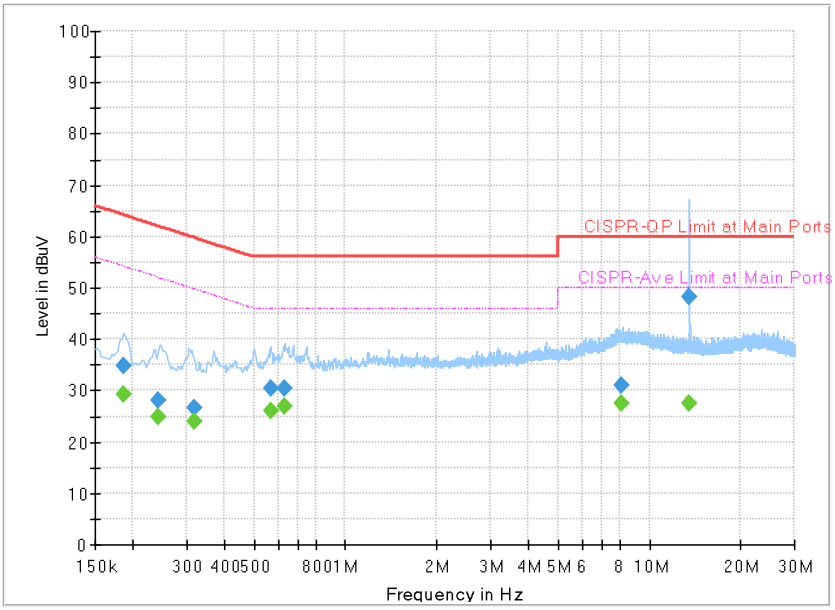


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.190500	---	27.19	54.02	26.83	L1	OFF	19.5
0.190500	32.27	---	64.02	31.75	L1	OFF	19.5
0.251250	---	25.03	51.72	26.69	L1	OFF	19.5
0.251250	30.26	---	61.72	31.46	L1	OFF	19.5
0.501720	---	27.27	46.00	18.73	L1	OFF	19.5
0.501720	30.22	---	56.00	25.78	L1	OFF	19.5
0.626370	---	26.32	46.00	19.68	L1	OFF	19.5
0.626370	29.67	---	56.00	26.33	L1	OFF	19.5
1.191840	---	24.68	46.00	21.32	L1	OFF	19.6
1.191840	27.45	---	56.00	28.55	L1	OFF	19.6
9.192750	---	27.33	50.00	22.67	L1	OFF	19.9
9.192750	30.85	---	60.00	29.15	L1	OFF	19.9
13.560000	---	27.37	50.00	22.63	L1	OFF	20.0
13.560000	47.27	---	60.00	12.73	L1	OFF	20.0

Test Mode :	Mode 6	Temperature :	22~25℃
Test Engineer :	Tom Lee	Relative Humidity :	45~51%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

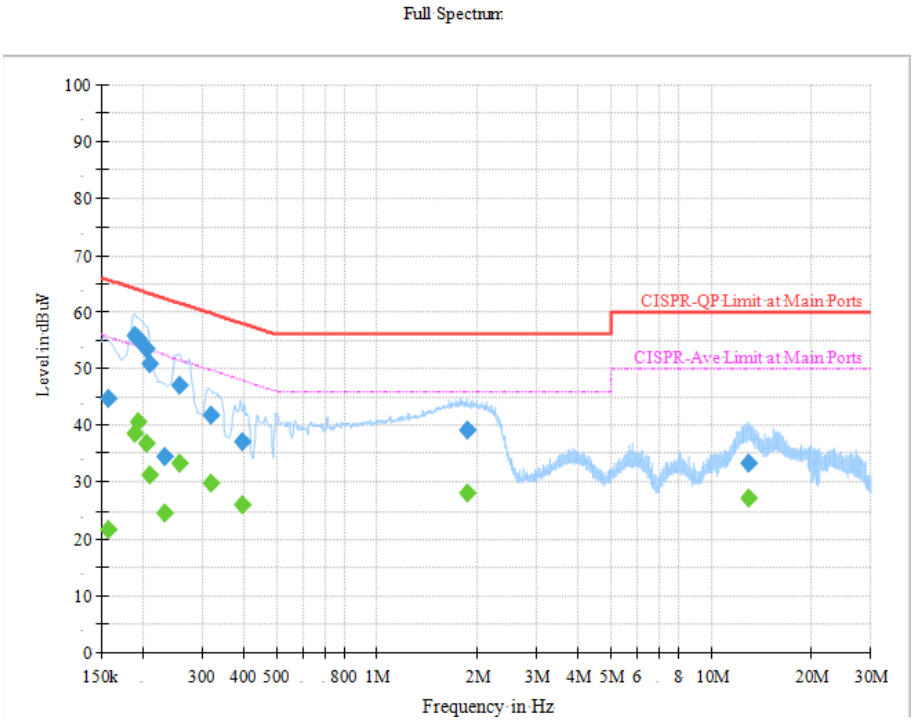
Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.185730	---	29.10	54.23	25.13	N	OFF	19.5
0.185730	34.81	---	64.23	29.42	N	OFF	19.5
0.242790	---	24.89	52.00	27.11	N	OFF	19.5
0.242790	28.12	---	62.00	33.88	N	OFF	19.5
0.316500	---	23.93	49.80	25.87	N	OFF	19.5
0.316500	26.47	---	59.80	33.33	N	OFF	19.5
0.569490	---	26.02	46.00	19.98	N	OFF	19.6
0.569490	30.33	---	56.00	25.67	N	OFF	19.6
0.627090	---	26.98	46.00	19.02	N	OFF	19.6
0.627090	30.51	---	56.00	25.49	N	OFF	19.6
8.137500	---	27.47	50.00	22.53	N	OFF	19.9
8.137500	31.07	---	60.00	28.93	N	OFF	19.9
13.560000	---	27.37	50.00	22.63	N	OFF	20.1
13.560000	48.23	---	60.00	11.77	N	OFF	20.1

Test Mode :	Mode 7	Temperature :	22~25℃
Test Engineer :	Tom Lee	Relative Humidity :	45~51%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

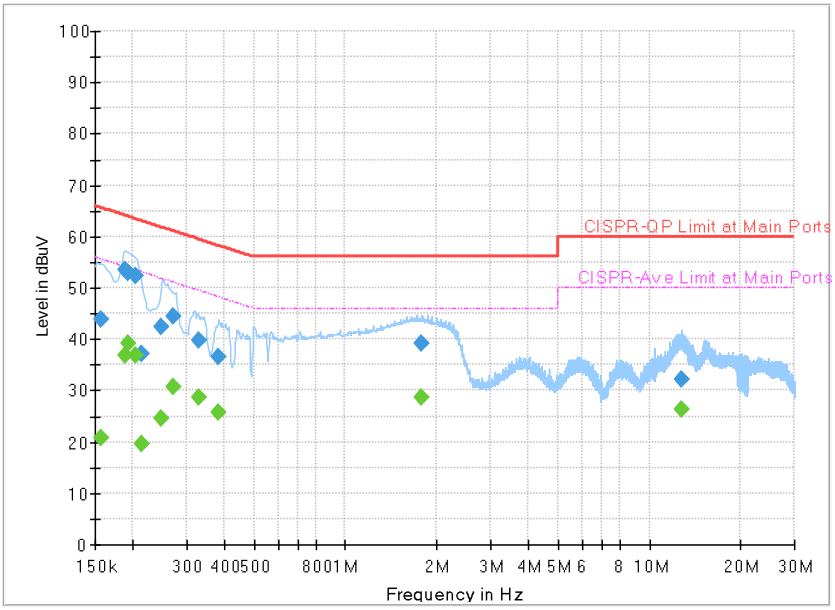


Final Result

Frequency	QuasiPeak	CAverage	Limit	Margin	Line	Filter	Corr.
0.156345	---	21.54	55.66	34.12	L1	OFF	19.5
0.156345	44.86	---	65.66	20.80	L1	OFF	19.5
0.188250	---	38.49	54.11	15.62	L1	OFF	19.5
0.188250	55.93	---	64.11	8.18	L1	OFF	19.5
0.192750	---	40.66	53.92	13.26	L1	OFF	19.5
0.192750	55.13	---	63.92	8.79	L1	OFF	19.5
0.204000	---	36.96	53.45	16.49	L1	OFF	19.5
0.204000	53.54	---	63.45	9.91	L1	OFF	19.5
0.207780	---	31.15	53.29	22.14	L1	OFF	19.5
0.207780	50.95	---	63.29	12.34	L1	OFF	19.5
0.231000	---	24.45	52.41	27.96	L1	OFF	19.5
0.231000	34.36	---	62.41	28.05	L1	OFF	19.5
0.257190	---	33.26	51.52	18.26	L1	OFF	19.5
0.257190	47.17	---	61.52	14.35	L1	OFF	19.5
0.318750	---	29.81	49.74	19.93	L1	OFF	19.5
0.318750	41.70	---	59.74	18.04	L1	OFF	19.5
0.395250	---	26.12	47.95	21.83	L1	OFF	19.5
0.395250	37.00	---	57.95	20.95	L1	OFF	19.5
1.856670	---	27.93	46.00	18.07	L1	OFF	19.6
1.856670	39.32	---	56.00	16.68	L1	OFF	19.6
12.921360	---	27.21	50.00	22.79	L1	OFF	19.7
12.921360	33.32	---	60.00	26.68	L1	OFF	19.7

Test Mode :	Mode 7	Temperature :	22~25℃
Test Engineer :	Tom Lee	Relative Humidity :	45~51%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

Full Spectrum

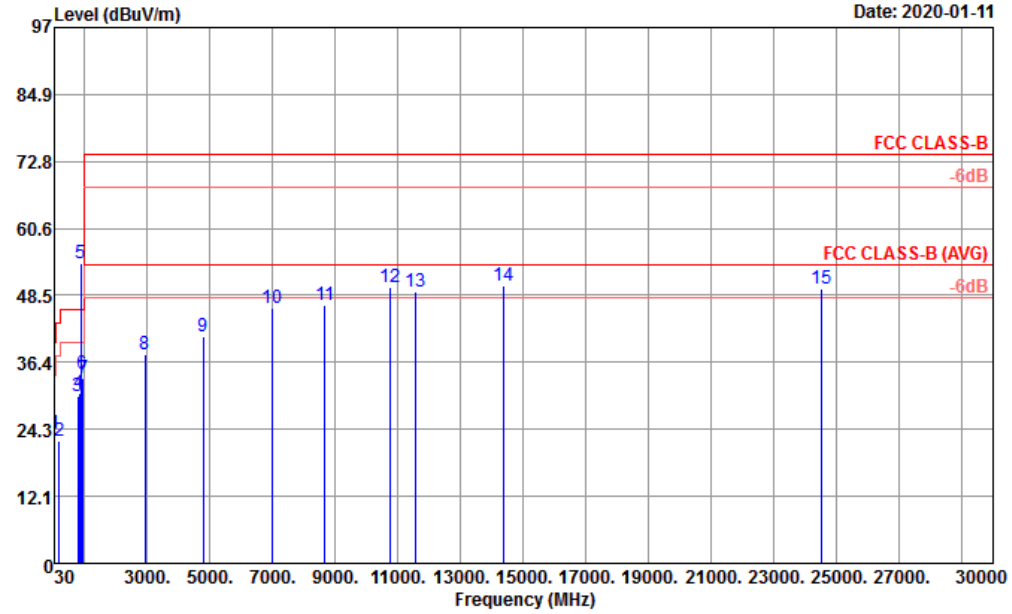


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.156750	---	20.75	55.63	34.88	N	OFF	19.5
0.156750	43.73	---	65.63	21.90	N	OFF	19.5
0.188250	---	36.80	54.11	17.31	N	OFF	19.5
0.188250	53.64	---	64.11	10.47	N	OFF	19.5
0.192750	---	39.20	53.92	14.72	N	OFF	19.5
0.192750	53.04	---	63.92	10.88	N	OFF	19.5
0.204000	---	36.94	53.45	16.51	N	OFF	19.5
0.204000	52.44	---	63.45	11.01	N	OFF	19.5
0.213000	---	19.55	53.09	33.54	N	OFF	19.5
0.213000	37.19	---	63.09	25.90	N	OFF	19.5
0.246840	---	24.64	51.86	27.22	N	OFF	19.5
0.246840	42.40	---	61.86	19.46	N	OFF	19.5
0.271500	---	30.64	51.07	20.43	N	OFF	19.5
0.271500	44.48	---	61.07	16.59	N	OFF	19.5
0.329370	---	28.67	49.47	20.80	N	OFF	19.5
0.329370	39.62	---	59.47	19.85	N	OFF	19.5
0.379770	---	25.68	48.28	22.60	N	OFF	19.5
0.379770	36.49	---	58.28	21.79	N	OFF	19.5
1.783500	---	28.54	46.00	17.46	N	OFF	19.5
1.783500	39.12	---	56.00	16.88	N	OFF	19.5
12.786000	---	26.26	50.00	23.74	N	OFF	19.8
12.786000	32.14	---	60.00	27.86	N	OFF	19.8

Appendix B. Radiated Emission Test Result

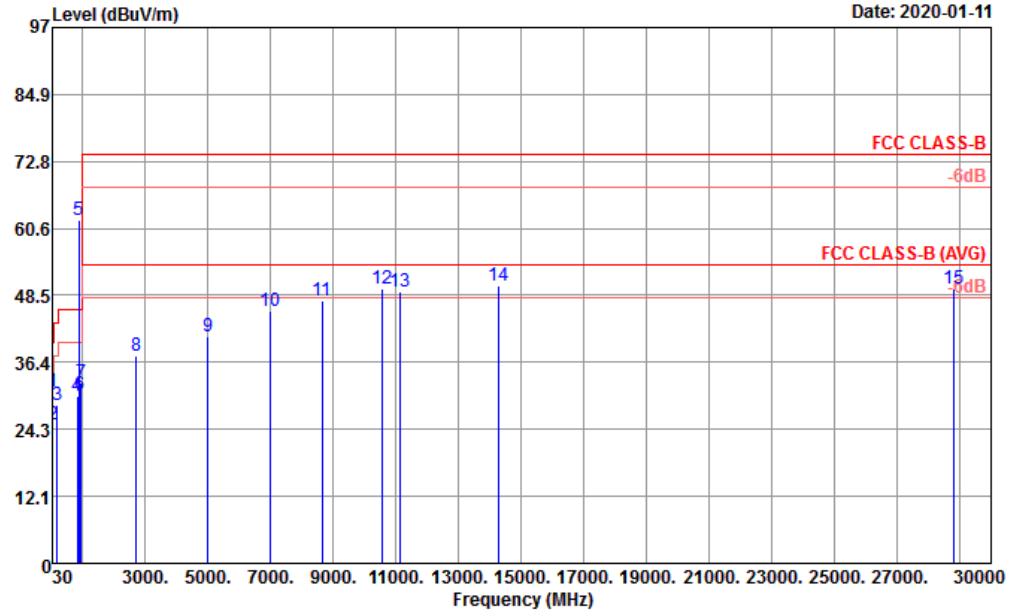
Mode :	Mode 1	Temperature :	22~24°C
Test Engineer :	Donny Tang	Relative Humidity :	54~55%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#5 is system simulator signal which can be ignored.		



Site : 03CH10-HY
Condition : FCC CLASS-B 3m HORN_9170_406_0584 HORIZONTAL

		Freq	Level	Over Limit	Limit Line	Antenna Factor	Read Level	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	dB/m	dBuV	dB	dB	cm	deg	
1		30.00	23.49	-16.51	40.00	25.30	30.10	0.58	32.49	---	---	Peak
2		180.35	22.21	-21.29	43.50	14.96	38.09	1.44	32.28	---	---	Peak
3		786.60	30.26	-15.74	46.00	28.30	31.08	3.11	32.23	---	---	Peak
4		837.04	30.76	-15.24	46.00	28.82	30.67	3.23	31.96	---	---	Peak
5	*	869.20	54.39			29.20	53.65	3.29	31.75	---	---	Peak
6		909.79	34.27	-11.73	46.00	29.10	33.23	3.37	31.43	100	173	Peak
7		955.38	33.44	-12.56	46.00	31.21	29.70	3.46	30.93	---	---	Peak
8		2914.00	37.93	-36.07	74.00	28.47	64.99	6.54	62.07	---	---	Peak
9		4788.00	40.97	-33.03	74.00	31.20	63.88	8.45	62.56	---	---	Peak
10		6970.00	46.33	-27.67	74.00	35.28	64.28	10.25	63.48	---	---	Peak
11		8664.00	46.87	-27.13	74.00	37.53	61.98	11.59	64.23	---	---	Peak
12		10742.00	49.90	-24.10	74.00	39.91	60.89	12.65	63.55	---	---	Peak
13		11570.00	49.25	-24.75	74.00	39.66	59.89	13.20	63.50	---	---	Peak
14		14375.00	50.16	-23.84	74.00	41.60	56.44	14.42	62.30	100	184	Peak
15		24540.00	49.58	-24.42	74.00	40.39	41.40	21.19	53.40	---	---	Peak

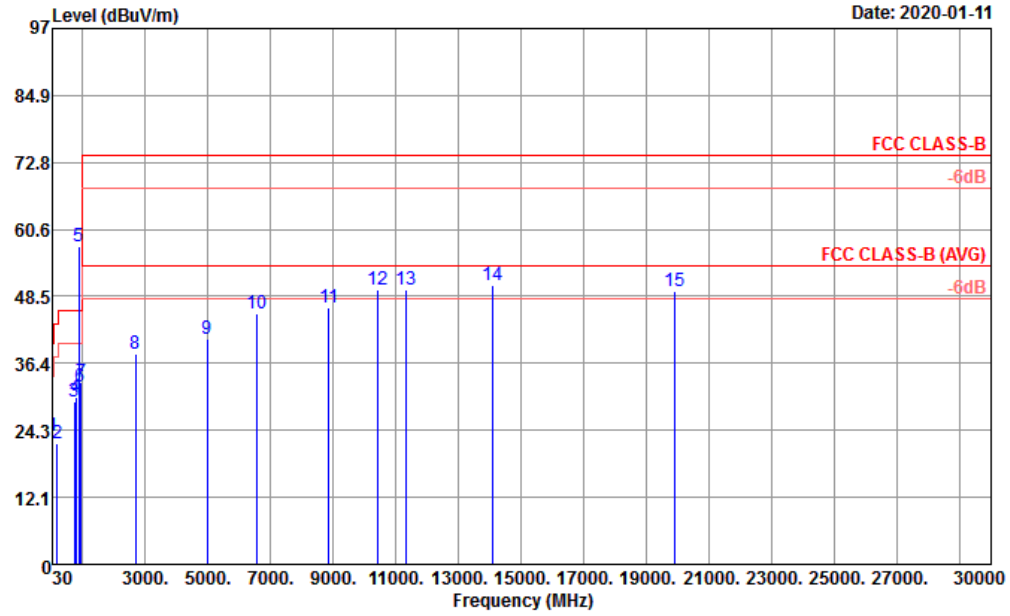
Mode :	Mode 1	Temperature :	22~24℃
Test Engineer :	Donny Tang	Relative Humidity :	54~55%
Test Distance :	3m	Polarization :	Vertical
Remark :	#5 is system simulator signal which can be ignored.		



Site : 03CH10-HY
Condition : FCC CLASS-B 3m HORN_9170_406_0584 VERTICAL

		Freq	Level	Over Limit	Limit Line	Antenna Factor	Read Level	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	dB/m	dBuV	dB	dB	cm	deg	
1		30.00	30.95	-9.05	40.00	25.30	37.56	0.58	32.49	100	105	Peak
2		39.70	25.00	-15.00	40.00	19.81	36.99	0.68	32.48	---	---	Peak
3		180.35	28.52	-14.98	43.50	14.96	44.40	1.44	32.28	---	---	Peak
4		826.37	30.24	-15.76	46.00	28.28	30.79	3.20	32.03	---	---	Peak
5	*	869.20	62.25			29.20	61.51	3.29	31.75	---	---	Peak
6		898.15	30.45	-15.55	46.00	28.90	29.75	3.35	31.55	---	---	Peak
7		947.62	32.70	-13.30	46.00	30.81	29.46	3.45	31.02	---	---	Peak
8		2706.00	37.64	-36.36	74.00	27.81	65.49	6.32	61.98	---	---	Peak
9		4988.00	40.97	-33.03	74.00	31.35	63.49	8.73	62.60	---	---	Peak
10		6976.00	45.54	-28.46	74.00	35.30	63.46	10.27	63.49	---	---	Peak
11		8654.00	47.69	-26.31	74.00	37.51	62.81	11.59	64.22	---	---	Peak
12		10544.00	49.69	-24.31	74.00	39.81	61.04	12.51	63.67	---	---	Peak
13		11136.00	49.27	-24.73	74.00	39.69	60.10	12.91	63.43	---	---	Peak
14		14265.00	50.30	-23.70	74.00	41.49	56.74	14.37	62.30	100	130	Peak
15		28812.00	49.70	-24.30	74.00	40.16	40.02	24.13	54.61	---	---	Peak

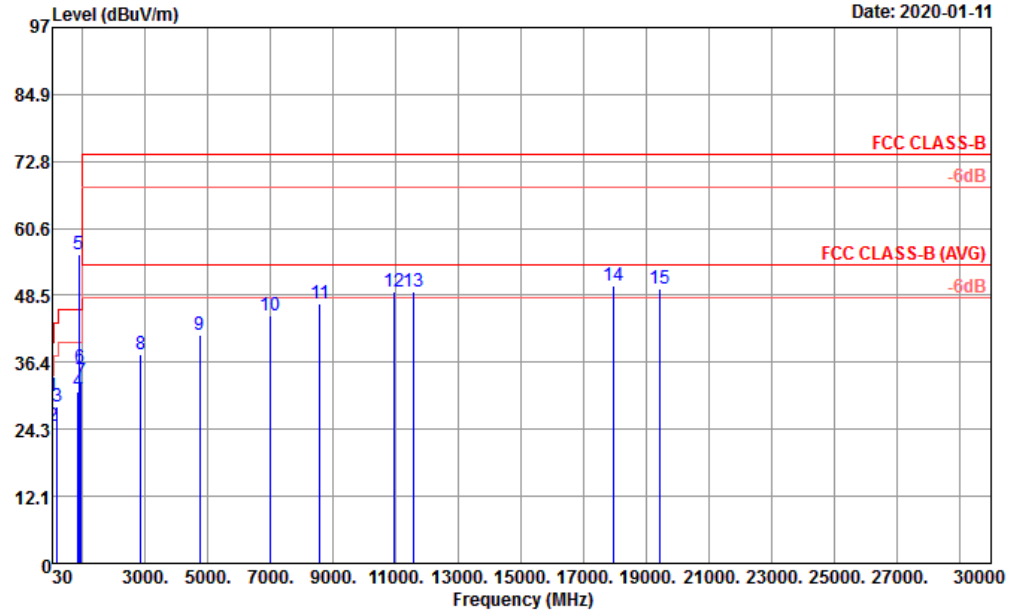
Mode :	Mode 2	Temperature :	22~24℃
Test Engineer :	Donny Tang	Relative Humidity :	54~55%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#5 is system simulator signal which can be ignored.		



Site : 03CH10-HY
Condition : FCC CLASS-B 3m HORN_9170_406_0584 HORIZONTAL

	Freq	Level	Over Limit	Limit Line	Antenna Factor	Read Level	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dBuV	dB	dB	cm	deg	
1	30.00	23.32	-16.68	40.00	25.30	29.93	0.58	32.49	---	---	Peak
2	180.35	21.98	-21.52	43.50	14.96	37.86	1.44	32.28	---	---	Peak
3	730.34	29.51	-16.49	46.00	27.71	31.15	2.99	32.34	---	---	Peak
4	785.63	30.29	-15.71	46.00	28.30	31.12	3.11	32.24	---	---	Peak
5 *	881.40	57.48			29.07	56.75	3.32	31.66	---	---	Peak
6	892.33	32.15	-13.85	46.00	28.90	31.50	3.34	31.59	---	---	Peak
7	952.47	32.91	-13.09	46.00	31.10	29.32	3.45	30.96	100	109	Peak
8	2696.00	38.10	-35.90	74.00	27.79	65.98	6.31	61.98	---	---	Peak
9	4964.00	40.75	-33.25	74.00	31.26	63.38	8.70	62.59	---	---	Peak
10	6572.00	45.32	-28.68	74.00	34.44	64.11	10.01	63.24	---	---	Peak
11	8866.00	46.52	-27.48	74.00	37.97	61.33	11.61	64.39	---	---	Peak
12	10404.00	49.69	-24.31	74.00	39.71	61.38	12.42	63.82	---	---	Peak
13	11344.00	49.79	-24.21	74.00	39.69	60.52	13.05	63.47	---	---	Peak
14	14080.00	50.55	-23.45	74.00	41.22	57.33	14.30	62.30	100	145	Peak
15	19908.00	49.53	-24.47	74.00	37.53	46.41	19.10	53.51	---	---	Peak

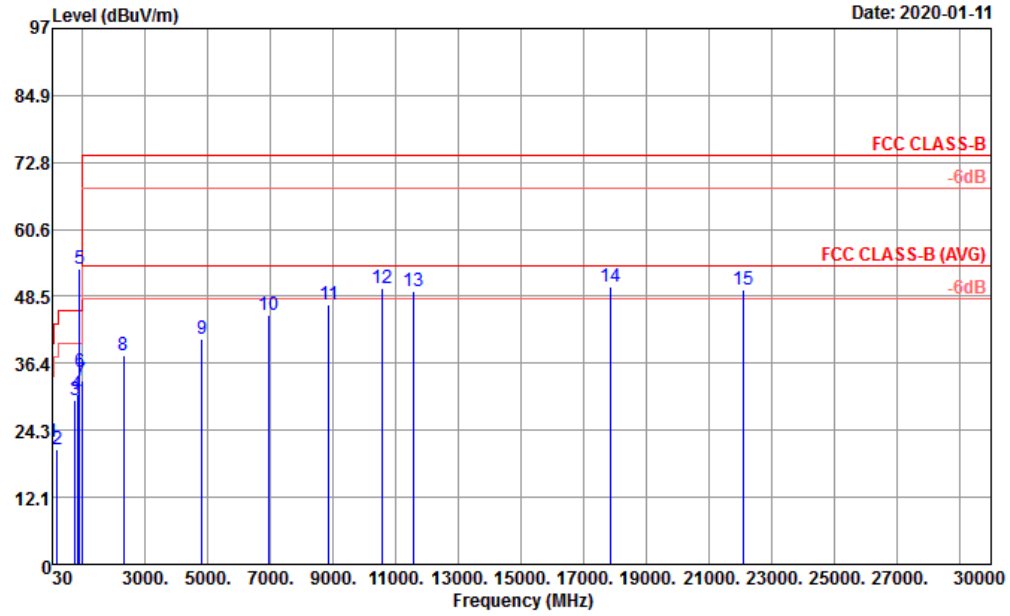
Mode :	Mode 2	Temperature :	22~24℃
Test Engineer :	Donny Tang	Relative Humidity :	54~55%
Test Distance :	3m	Polarization :	Vertical
Remark :	#5 is system simulator signal which can be ignored.		



Site : 03CH10-HY
Condition : FCC CLASS-B 3m HORN_9170_406_0584 VERTICAL

		Freq	Level	Over Limit	Limit Line	Antenna Factor	Read Level	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	dB/m	dBuV	dB	dB	cm	deg	
1		30.00	30.16	-9.84	40.00	25.30	36.77	0.58	32.49	100	184	Peak
2		42.61	24.98	-15.02	40.00	18.30	38.46	0.70	32.48	---	---	Peak
3		180.35	28.42	-15.08	43.50	14.96	44.30	1.44	32.28	---	---	Peak
4		855.47	31.06	-14.94	46.00	29.29	30.34	3.27	31.84	---	---	Peak
5	*	881.40	55.84			29.07	55.11	3.32	31.66	---	---	Peak
6		908.82	35.35	-10.65	46.00	29.08	34.34	3.37	31.44	---	---	Peak
7		953.44	33.08	-12.92	46.00	31.14	29.43	3.46	30.95	---	---	Peak
8		2860.00	37.83	-36.17	74.00	28.34	65.05	6.48	62.04	---	---	Peak
9		4742.00	41.22	-32.78	74.00	31.22	64.15	8.40	62.55	---	---	Peak
10		6992.00	44.72	-29.28	74.00	35.37	62.55	10.30	63.50	---	---	Peak
11		8560.00	46.96	-27.04	74.00	37.24	62.38	11.49	64.15	---	---	Peak
12		10948.00	49.26	-24.74	74.00	40.20	59.70	12.79	63.43	---	---	Peak
13		11554.00	49.11	-24.89	74.00	39.69	59.73	13.19	63.50	---	---	Peak
14		17940.00	50.30	-23.70	74.00	46.98	49.08	15.36	61.12	100	170	Peak
15		19404.00	49.85	-24.15	74.00	37.72	47.25	18.96	54.08	---	---	Peak

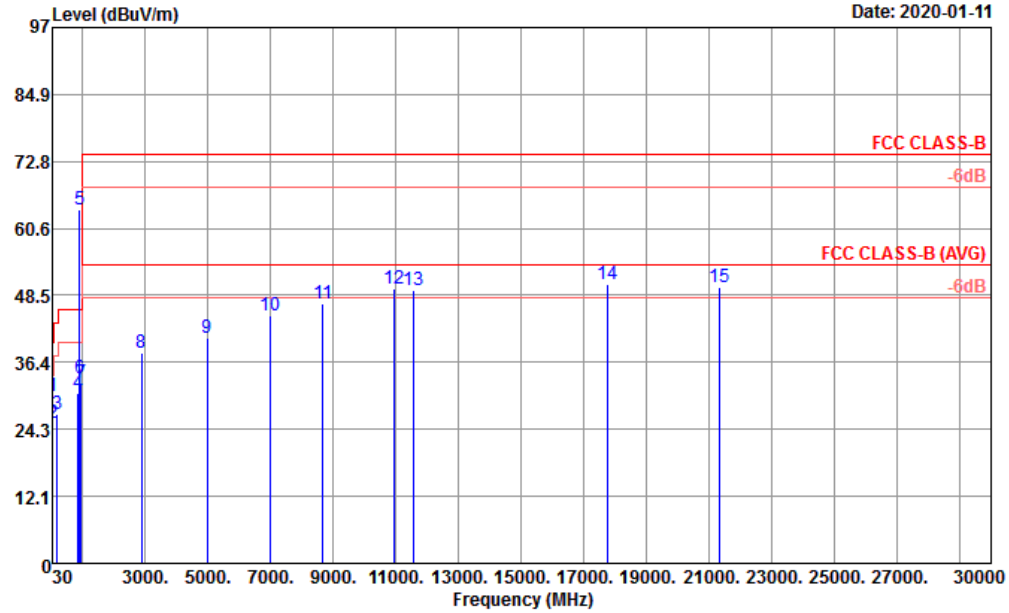
Mode :	Mode 3	Temperature :	22~24℃
Test Engineer :	Donny Tang	Relative Humidity :	54~55%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#5 is system simulator signal which can be ignored.		



Site : 03CH10-HY
Condition : FCC CLASS-B 3m HORN_9170_406_0584 HORIZONTAL

		Freq	Level	Over Limit	Limit Line	Antenna Factor	Read Level	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	dB/m	dBuV	dB	dB	cm	deg	
1		30.00	22.10	-17.90	40.00	25.30	28.71	0.58	32.49	---	---	Peak
2		181.32	20.93	-22.57	43.50	14.87	36.89	1.45	32.28	---	---	Peak
3		748.77	29.80	-16.20	46.00	28.28	30.80	3.02	32.30	---	---	Peak
4		821.52	30.75	-15.25	46.00	28.13	31.50	3.19	32.07	---	---	Peak
5	*	893.80	53.55			28.90	52.89	3.34	31.58	---	---	Peak
6		908.82	34.83	-11.17	46.00	29.08	33.82	3.37	31.44	100	117	Peak
7		959.26	33.20	-12.80	46.00	31.29	29.33	3.47	30.89	---	---	Peak
8		2306.00	37.72	-36.28	74.00	27.80	66.02	5.80	61.90	---	---	Peak
9		4814.00	40.79	-33.21	74.00	31.20	63.67	8.48	62.56	---	---	Peak
10		6942.00	45.21	-28.79	74.00	35.18	63.30	10.20	63.47	---	---	Peak
11		8866.00	47.07	-26.93	74.00	37.97	61.88	11.61	64.39	---	---	Peak
12		10540.00	50.00	-24.00	74.00	39.82	61.35	12.51	63.68	---	---	Peak
13		11552.00	49.38	-24.62	74.00	39.70	59.99	13.19	63.50	---	---	Peak
14		17845.00	50.18	-23.82	74.00	44.97	51.02	15.35	61.16	100	187	Peak
15		22104.00	49.77	-24.23	74.00	38.48	43.15	21.16	53.02	---	---	Peak

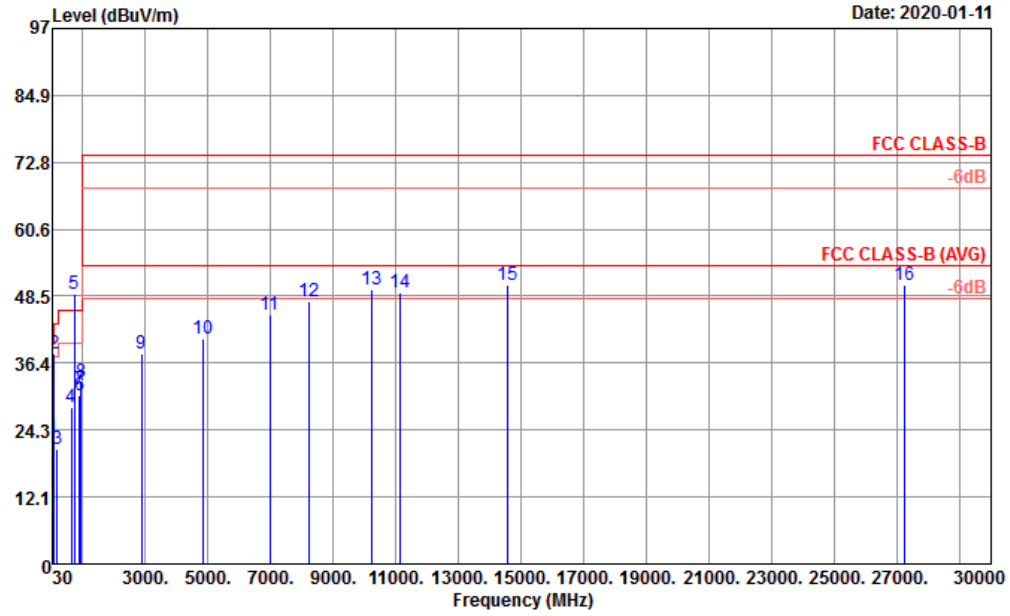
Mode :	Mode 3	Temperature :	22~24℃
Test Engineer :	Donny Tang	Relative Humidity :	54~55%
Test Distance :	3m	Polarization :	Vertical
Remark :	#5 is system simulator signal which can be ignored.		



Site : 03CH10-HY
Condition : FCC CLASS-B 3m HORN_9170_406_0584 VERTICAL

		Freq	Level	Over Limit	Limit Line	Antenna Factor	Read Level	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	dB/m	dBuV	dB	dB	cm	deg	
1		30.00	30.14	-9.86	40.00	25.30	36.75	0.58	32.49	100	186	Peak
2		39.70	25.41	-14.59	40.00	19.81	37.40	0.68	32.48	---	---	Peak
3		181.32	27.07	-16.43	43.50	14.87	43.03	1.45	32.28	---	---	Peak
4		844.80	30.82	-15.18	46.00	29.19	30.29	3.25	31.91	---	---	Peak
5	*	893.80	63.93			28.90	63.27	3.34	31.58	---	---	Peak
6		909.79	33.42	-12.58	46.00	29.10	32.38	3.37	31.43	---	---	Peak
7		945.68	32.57	-13.43	46.00	30.65	29.52	3.44	31.04	---	---	Peak
8		2886.00	38.15	-35.85	74.00	28.44	65.25	6.51	62.05	---	---	Peak
9		4974.00	40.85	-33.15	74.00	31.30	63.43	8.71	62.59	---	---	Peak
10		6972.00	44.94	-29.06	74.00	35.29	62.87	10.26	63.48	---	---	Peak
11		8674.00	47.05	-26.95	74.00	37.55	62.14	11.60	64.24	---	---	Peak
12		10964.00	49.79	-24.21	74.00	40.20	60.21	12.80	63.42	---	---	Peak
13		11562.00	49.42	-24.58	74.00	39.68	60.04	13.20	63.50	---	---	Peak
14		17760.00	50.56	-23.44	74.00	43.72	52.71	15.33	61.20	100	144	Peak
15		21336.00	50.11	-23.89	74.00	38.32	44.50	20.49	53.20	---	---	Peak

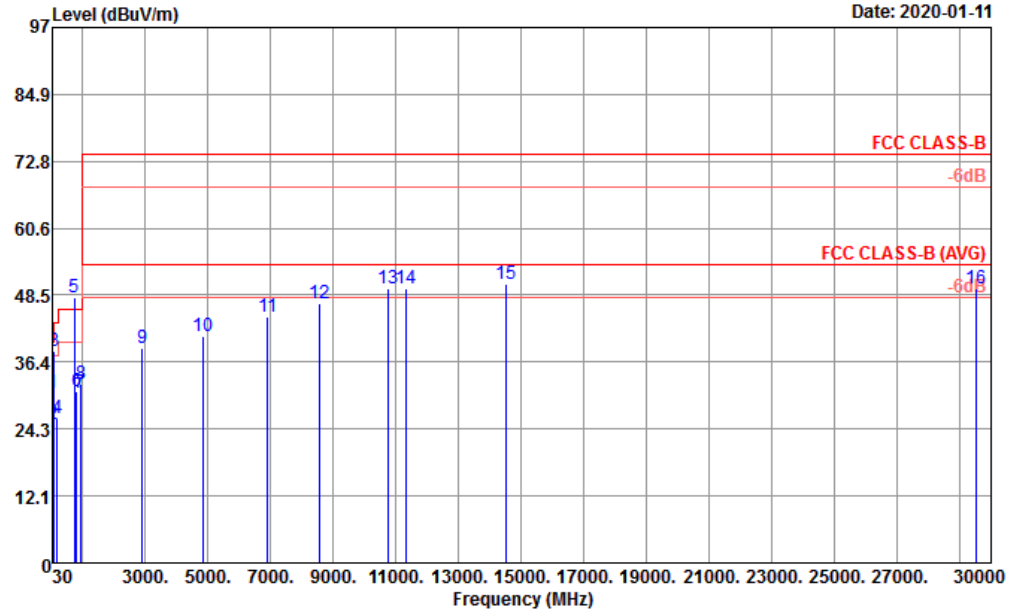
Mode :	Mode 4	**Temperature :**	22~24℃
Test Engineer :	Donny Tang	**Relative Humidity :**	54~55%
Test Distance :	3m	**Polarization :**	Horizontal
Remark :	#2 is FM signal which can be ignored. #5 is system simulator signal which can be ignored.		



Site : 03CH10-HY
Condition : FCC CLASS-B 3m HORN_9170_406_0584 HORIZONTAL

		Freq	Level	Over Limit	Limit Line	Antenna Factor	Read Level	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	dB/m	dBuV	dB	dB	cm	deg	
1		30.00	22.71	-17.29	40.00	25.30	29.32	0.58	32.49	---	---	Peak
2		88.00	38.22			14.50	55.11	1.00	32.39	---	---	Peak
3		180.35	20.74	-22.76	43.50	14.96	36.62	1.44	32.28	---	---	Peak
4		640.13	28.37	-17.63	46.00	26.60	31.45	2.80	32.48	---	---	Peak
5	*	731.50	48.83			27.76	50.41	2.99	32.33	---	---	Peak
6		888.45	30.61	-15.39	46.00	28.93	29.97	3.33	31.62	---	---	Peak
7		919.49	31.58	-14.42	46.00	29.38	30.14	3.39	31.33	---	---	Peak
8		958.29	32.84	-13.16	46.00	31.27	29.00	3.47	30.90	100	116	Peak
9		2866.00	38.11	-35.89	74.00	28.36	65.31	6.49	62.05	---	---	Peak
10		4820.00	40.80	-33.20	74.00	31.20	63.67	8.49	62.56	---	---	Peak
11		6980.00	45.03	-28.97	74.00	35.32	62.93	10.27	63.49	---	---	Peak
12		8228.00	47.55	-26.45	74.00	36.69	63.84	10.90	63.88	---	---	Peak
13		10224.00	49.70	-24.30	74.00	39.27	62.16	12.30	64.03	---	---	Peak
14		11138.00	49.13	-24.87	74.00	39.69	59.96	12.91	63.43	---	---	Peak
15		14550.00	50.59	-23.41	74.00	41.60	56.78	14.49	62.28	100	141	Peak
16		27252.00	50.56	-23.44	74.00	39.60	41.39	22.87	53.30	---	---	Peak

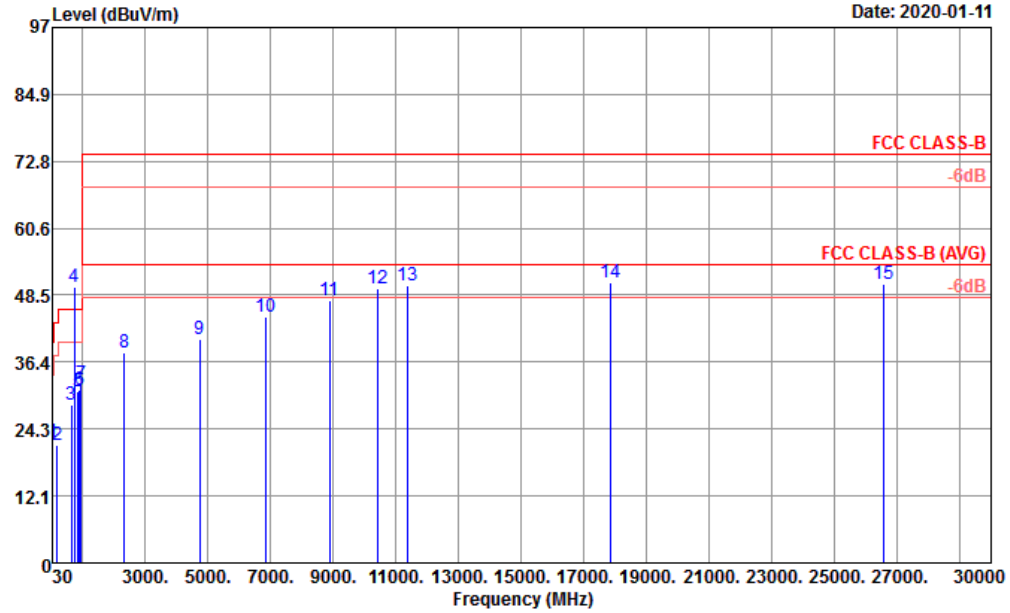
Mode :	Mode 4	Temperature :	22~24℃
Test Engineer :	Donny Tang	Relative Humidity :	54~55%
Test Distance :	3m	Polarization :	Vertical
Remark :	#3 is FM signal which can be ignored. #5 is system simulator signal which can be ignored.		



Site : 03CH10-HY
Condition : FCC CLASS-B 3m HORN_9170_406_0584 VERTICAL

		Freq	Level	Over Limit	Limit Line	Antenna Factor	Read Level	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	dB/m	dBuV	dB	dB	cm	deg	
1		30.00	30.92	-9.08	40.00	25.30	37.53	0.58	32.49	100	108	Peak
2		38.73	25.01	-14.99	40.00	20.43	36.40	0.66	32.48	---	---	Peak
3		88.00	38.46			14.50	55.35	1.00	32.39	---	---	Peak
4		180.35	26.27	-17.23	43.50	14.96	42.15	1.44	32.28	---	---	Peak
5	*	731.50	48.22			27.76	49.80	2.99	32.33	---	---	Peak
6		800.18	30.96	-15.04	46.00	28.20	31.83	3.14	32.21	---	---	Peak
7		911.73	30.79	-15.21	46.00	29.13	29.70	3.37	31.41	---	---	Peak
8		954.41	32.53	-13.47	46.00	31.18	28.83	3.46	30.94	---	---	Peak
9		2900.00	38.90	-35.10	74.00	28.50	65.93	6.53	62.06	---	---	Peak
10		4822.00	41.04	-32.96	74.00	31.20	63.91	8.49	62.56	---	---	Peak
11		6894.00	44.45	-29.55	74.00	35.06	62.72	10.11	63.44	---	---	Peak
12		8568.00	47.13	-26.87	74.00	37.27	62.51	11.50	64.15	---	---	Peak
13		10752.00	49.81	-24.19	74.00	39.96	60.75	12.65	63.55	---	---	Peak
14		11340.00	49.60	-24.40	74.00	39.68	60.34	13.05	63.47	---	---	Peak
15		14520.00	50.51	-23.49	74.00	41.66	56.66	14.48	62.29	100	149	Peak
16		29544.00	49.62	-24.38	74.00	40.05	40.11	24.49	55.03	---	---	Peak

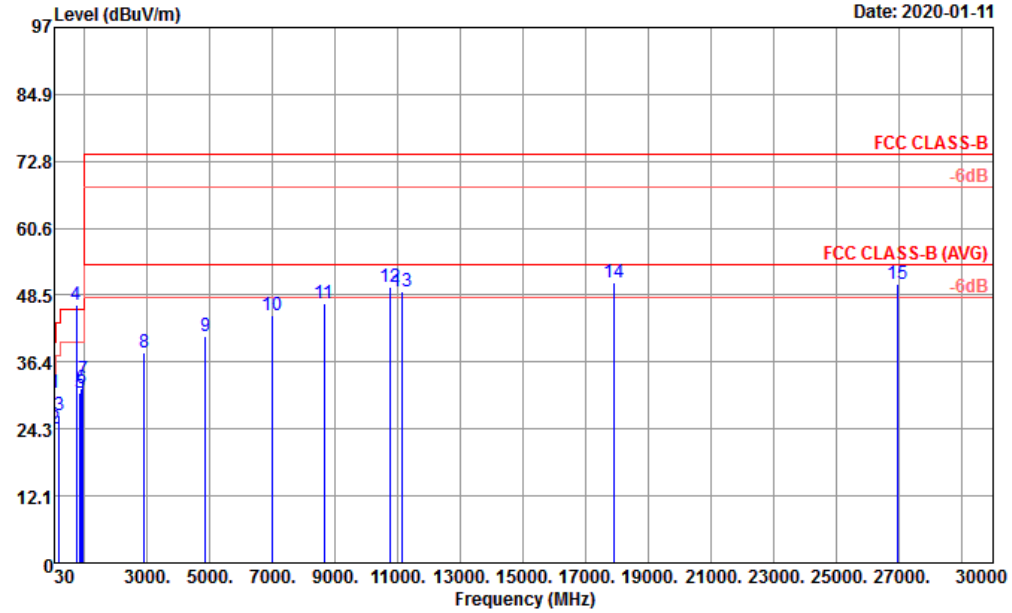
Mode :	Mode 5	Temperature :	22~24℃
Test Engineer :	Donny Tang	Relative Humidity :	54~55%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#4 is system simulator signal which can be ignored.		



Site : 03CH10-HY
Condition : FCC CLASS-B 3m HORN_9170_406_0584 HORIZONTAL

		Freq	Level	Over Limit	Limit Line	Antenna Factor	Read Level	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	dB/m	dBuV	dB	dB	cm	deg	
1		30.00	21.80	-18.20	40.00	25.30	28.41	0.58	32.49	---	---	Peak
2		181.32	21.31	-22.19	43.50	14.87	37.27	1.45	32.28	---	---	Peak
3		634.31	28.61	-17.39	46.00	26.59	31.72	2.79	32.49	---	---	Peak
4	*	737.50	50.01			28.00	51.33	3.00	32.32	---	---	Peak
5		853.53	31.01	-14.99	46.00	29.30	30.29	3.27	31.85	---	---	Peak
6		909.79	31.43	-14.57	46.00	29.10	30.39	3.37	31.43	---	---	Peak
7		937.92	32.29	-13.71	46.00	30.18	29.80	3.43	31.12	100	171	Peak
8		2328.00	38.07	-35.93	74.00	27.80	66.33	5.84	61.90	---	---	Peak
9		4728.00	40.64	-33.36	74.00	31.24	63.57	8.38	62.55	---	---	Peak
10		6862.00	44.59	-29.41	74.00	34.87	63.09	10.05	63.42	---	---	Peak
11		8878.00	47.68	-26.32	74.00	37.94	62.54	11.60	64.40	---	---	Peak
12		10400.00	49.68	-24.32	74.00	39.70	61.38	12.42	63.82	---	---	Peak
13		11356.00	50.28	-23.72	74.00	39.71	60.98	13.06	63.47	---	---	Peak
14		17835.00	50.73	-23.27	74.00	44.80	51.76	15.34	61.17	100	127	Peak
15		26592.00	50.43	-23.57	74.00	39.62	41.72	22.11	53.02	---	---	Peak

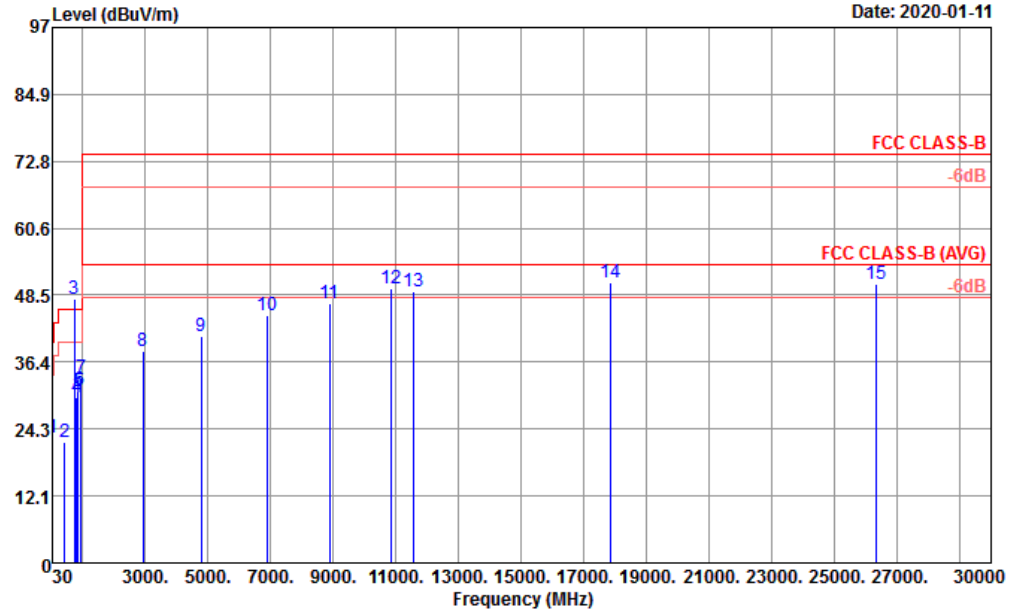
Mode :	Mode 5	Temperature :	22~24℃
Test Engineer :	Donny Tang	Relative Humidity :	54~55%
Test Distance :	3m	Polarization :	Vertical
Remark :	#4 is system simulator signal which can be ignored.		



Site : 03CH10-HY
Condition : FCC CLASS-B 3m HORN_9170_406_0584 VERTICAL

		Freq	Level	Over Limit	Limit Line	Antenna Factor	Read Level	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	dB/m	dBuV	dB	dB	cm	deg	
1		30.00	30.90	-9.10	40.00	25.30	37.51	0.58	32.49	100	110	Peak
2		43.58	24.36	-15.64	40.00	17.64	38.49	0.70	32.47	---	---	Peak
3		181.32	26.63	-16.87	43.50	14.87	42.59	1.45	32.28	---	---	Peak
4	*	737.50	46.62			28.00	47.94	3.00	32.32	---	---	Peak
5		842.86	30.83	-15.17	46.00	29.11	30.40	3.24	31.92	---	---	Peak
6		892.33	31.56	-14.44	46.00	28.90	30.91	3.34	31.59	---	---	Peak
7		950.53	33.13	-12.87	46.00	31.02	29.64	3.45	30.98	---	---	Peak
8		2912.00	38.08	-35.92	74.00	28.48	65.12	6.54	62.06	---	---	Peak
9		4860.00	41.09	-32.91	74.00	31.20	63.91	8.55	62.57	---	---	Peak
10		6982.00	44.82	-29.18	74.00	35.33	62.70	10.28	63.49	---	---	Peak
11		8648.00	47.11	-26.89	74.00	37.50	62.25	11.58	64.22	---	---	Peak
12		10752.00	49.94	-24.06	74.00	39.96	60.88	12.65	63.55	---	---	Peak
13		11150.00	49.29	-24.71	74.00	39.65	60.15	12.92	63.43	---	---	Peak
14		17885.00	50.87	-23.13	74.00	45.65	51.02	15.35	61.15	100	113	Peak
15		26964.00	50.47	-23.53	74.00	39.69	41.33	22.54	53.09	---	---	Peak

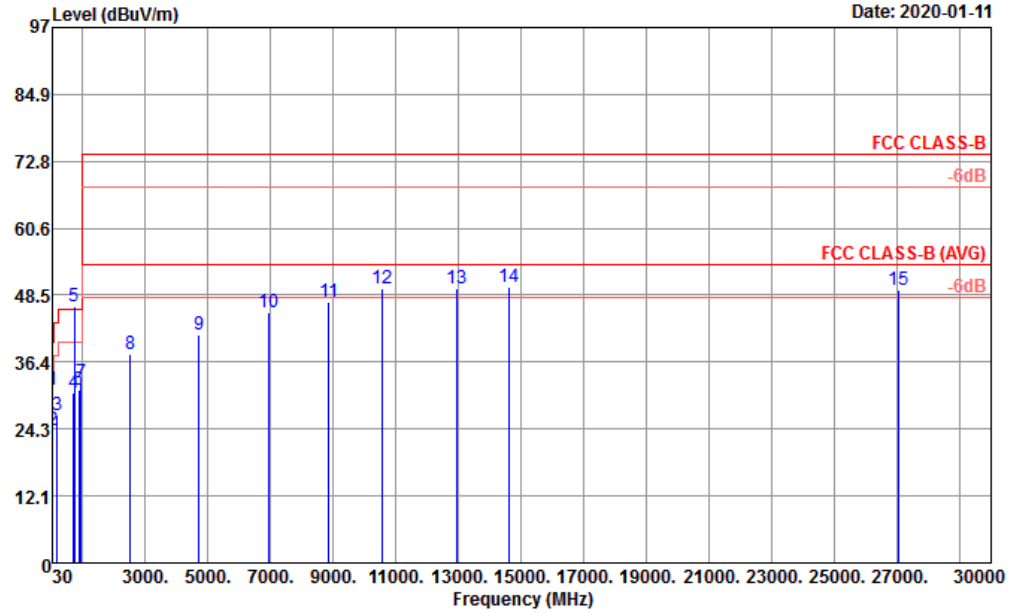
Mode :	Mode 6	Temperature :	22~24℃
Test Engineer :	Donny Tang	Relative Humidity :	54~55%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#3 is system simulator signal which can be ignored.		



Site : 03CH10-HY
Condition : FCC CLASS-B 3m HORN_9170_406_0584 HORIZONTAL

		Freq	Level	Over Limit	Limit Line	Antenna Factor	Read Level	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	dB/m	dBuV	dB	dB	cm	deg	
1		30.00	22.62	-17.38	40.00	25.30	29.23	0.58	32.49	---	---	Peak
2		412.18	21.79	-24.21	46.00	22.29	29.58	2.22	32.30	---	---	Peak
3	*	743.50	47.88			28.17	49.01	3.01	32.31	---	---	Peak
4		807.94	29.95	-16.05	46.00	28.14	30.81	3.16	32.16	---	---	Peak
5		847.71	31.04	-14.96	46.00	29.25	30.43	3.25	31.89	---	---	Peak
6		917.55	31.31	-14.69	46.00	29.30	29.97	3.39	31.35	---	---	Peak
7		957.32	33.38	-12.62	46.00	31.25	29.58	3.46	30.91	100	162	Peak
8		2914.00	38.40	-35.60	74.00	28.47	65.46	6.54	62.07	---	---	Peak
9		4794.00	41.09	-32.91	74.00	31.20	64.00	8.45	62.56	---	---	Peak
10		6910.00	44.96	-29.04	74.00	35.12	63.15	10.14	63.45	---	---	Peak
11		8878.00	47.06	-26.94	74.00	37.94	61.92	11.60	64.40	---	---	Peak
12		10834.00	49.72	-24.28	74.00	40.20	60.31	12.71	63.50	---	---	Peak
13		11548.00	49.08	-24.92	74.00	39.70	59.69	13.19	63.50	---	---	Peak
14		17860.00	50.85	-23.15	74.00	45.22	51.44	15.35	61.16	100	115	Peak
15		26328.00	50.59	-23.41	74.00	39.60	42.29	21.80	53.10	---	---	Peak

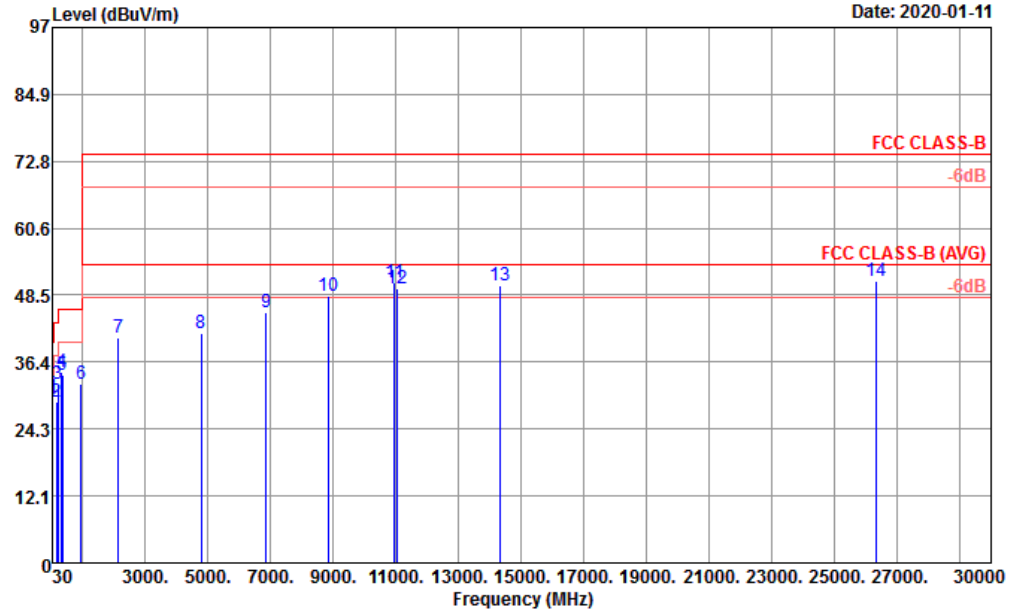
Mode :	Mode 6	Temperature :	22~24℃
Test Engineer :	Donny Tang	Relative Humidity :	54~55%
Test Distance :	3m	Polarization :	Vertical
Remark :	#5 is system simulator signal which can be ignored.		



Site : 03CH10-HY
Condition : FCC CLASS-B 3m HORN_9170_406_0584 VERTICAL

		Freq	Level	Over Limit	Limit Line	Antenna Factor	Read Level	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	dB/m	dBuV	dB	dB	cm	deg	
1		30.00	31.29	-8.71	40.00	25.30	37.90	0.58	32.49	100	171	Peak
2		42.61	24.10	-15.90	40.00	18.30	37.58	0.70	32.48	---	---	Peak
3		181.32	26.73	-16.77	43.50	14.87	42.69	1.45	32.28	---	---	Peak
4		711.91	30.86	-15.14	46.00	26.78	33.49	2.96	32.37	---	---	Peak
5	*	743.50	46.49			28.17	47.62	3.01	32.31	---	---	Peak
6		870.02	31.45	-14.55	46.00	29.20	30.69	3.30	31.74	---	---	Peak
7		954.41	32.64	-13.36	46.00	31.18	28.94	3.46	30.94	---	---	Peak
8		2514.00	37.87	-36.13	74.00	27.43	66.25	6.10	61.91	---	---	Peak
9		4700.00	41.25	-32.75	74.00	31.30	64.14	8.35	62.54	---	---	Peak
10		6928.00	45.44	-28.56	74.00	35.16	63.56	10.18	63.46	---	---	Peak
11		8866.00	47.25	-26.75	74.00	37.97	62.06	11.61	64.39	---	---	Peak
12		10558.00	49.67	-24.33	74.00	39.78	61.04	12.52	63.67	---	---	Peak
13		12920.00	49.62	-24.38	74.00	39.10	59.38	13.85	62.71	---	---	Peak
14		14605.00	50.12	-23.88	74.00	41.51	56.36	14.51	62.26	100	188	Peak
15		27024.00	49.53	-24.47	74.00	39.69	40.35	22.61	53.12	---	---	Peak

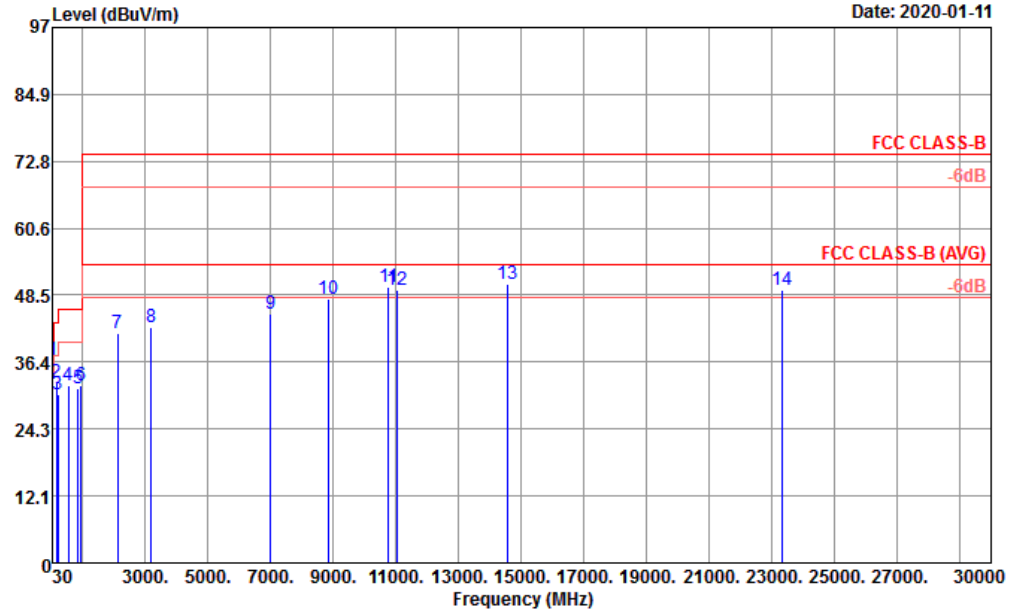
Mode :	Mode 7	Temperature :	22~24℃
Test Engineer :	Donny Tang	Relative Humidity :	54~55%
Test Distance :	3m	Polarization :	Horizontal



Site : 03CH10-HY
Condition : FCC CLASS-B 3m HORN_9170_406_0584 HORIZONTAL

	Freq	Level	Over Limit	Limit Line	Antenna Factor	Read Level	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dBuV	dB	dB	cm	deg	
1	49.40	30.05	-9.95	40.00	14.60	47.17	0.75	32.47	100	145	Peak
2	157.07	29.28	-14.22	43.50	16.60	43.64	1.34	32.30	---	---	Peak
3	215.27	32.31	-11.19	43.50	14.92	48.05	1.58	32.24	---	---	Peak
4	325.85	34.70	-11.30	46.00	19.62	45.31	1.96	32.19	---	---	Peak
5	353.98	34.16	-11.84	46.00	20.48	43.86	2.05	32.23	---	---	Peak
6	957.32	32.53	-13.47	46.00	31.25	28.73	3.46	30.91	---	---	Peak
7	2130.00	40.83	-33.17	74.00	27.32	69.88	5.53	61.90	---	---	Peak
8	4772.00	41.63	-32.37	74.00	31.20	64.55	8.43	62.55	---	---	Peak
9	6854.00	45.36	-28.64	74.00	34.82	63.91	10.04	63.41	---	---	Peak
10	8858.00	48.45	-25.55	74.00	37.98	63.24	11.62	64.39	---	---	Peak
11	10952.00	50.68	-23.32	74.00	40.20	61.12	12.79	63.43	100	132	Peak
12	11026.00	49.77	-24.23	74.00	40.10	60.24	12.84	63.41	---	---	Peak
13	14310.00	50.32	-23.68	74.00	41.60	56.63	14.39	62.30	---	---	Peak
14	26316.00	51.16	-22.84	74.00	39.60	42.88	21.79	53.11	---	---	Peak

Mode :	Mode 7	Temperature :	22~24℃
Test Engineer :	Donny Tang	Relative Humidity :	54~55%
Test Distance :	3m	Polarization :	Vertical



Site : 03CH10-HY
Condition : FCC CLASS-B 3m HORN_9170_406_0584 VERTICAL

	Freq	Level	Over Limit	Limit Line	Antenna Factor	Read Level	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dB/m	dBuV	dB	dB	cm	deg	
1	49.40	36.76	-3.24	40.00	14.60	53.88	0.75	32.47	100	78	QP
2	159.01	32.73	-10.77	43.50	16.60	47.08	1.35	32.30	---	---	Peak
3	214.30	30.67	-12.83	43.50	14.94	46.41	1.57	32.25	---	---	Peak
4	531.49	32.05	-13.95	46.00	24.00	37.96	2.54	32.45	---	---	Peak
5	855.47	31.54	-14.46	46.00	29.29	30.82	3.27	31.84	---	---	Peak
6	953.44	32.28	-13.72	46.00	31.14	28.63	3.46	30.95	---	---	Peak
7	2124.00	41.63	-32.37	74.00	27.24	70.77	5.52	61.90	---	---	Peak
8	3184.00	42.68	-31.32	74.00	28.83	69.15	6.84	62.14	---	---	Peak
9	6988.00	45.01	-28.99	74.00	35.35	62.86	10.29	63.49	---	---	Peak
10	8848.00	47.92	-26.08	74.00	38.00	62.68	11.62	64.38	---	---	Peak
11	10762.00	49.99	-24.01	74.00	40.01	60.86	12.66	63.54	---	---	Peak
12	11020.00	49.50	-24.50	74.00	40.12	59.95	12.83	63.40	---	---	Peak
13	14585.00	50.41	-23.59	74.00	41.53	56.65	14.50	62.27	100	159	Peak
14	23352.00	49.33	-24.67	74.00	39.17	42.30	21.12	53.26	---	---	Peak

THE END