



# FCC EMI TEST REPORT

**FCC ID** : GKRAOW4PXC1  
**Equipment** : Outdoor Radio Unit  
**Brand Name** : Compal  
**Model Name** : Cypress AOW4P-XC1  
**Applicant** : Compal Electronics, Inc.  
No.581 & 581-1, Ruiguang Rd., Neihu District, Taipei, (114) Taiwan  
**Manufacturer** : Compal Electronics, Inc.  
No.581 & 581-1, Ruiguang Rd., Neihu District, Taipei, (114) Taiwan  
**Standard** : FCC 47 CFR FCC Part 15 Subpart B Class A

The product was received on Jul. 20, 2023 and testing was performed from Sep. 18, 2023 to Sep. 21, 2023. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Louis Wu

**Sporton International Inc. EMC & Wireless Communications Laboratory**

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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### History of this test report

Report No.	Version	Description	Issue Date
FC372001	01	Initial issue of report	Oct. 04, 2023



### Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.107	AC Conducted Emission	Pass	19.98 dB under the limit at 0.65 MHz
3.2	15.109	Radiated Emission	Pass	8.26 dB under the limit at 63.04 MHz for Quasi-Peak

Conformity Assessment Condition:
1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".
Disclaimer:
The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

**Reviewed by: William Chen**  
**Report Producer: Rebecca Wu**

# 1. General Description

## 1.1. Product Feature of Equipment Under Test

Product Feature	
<b>General Specs</b>	5G NR
<b>Antenna Type</b>	WWAN
	<Ant. 1>: Patch Antenna
	<Ant. 2>: Patch Antenna
	<Ant. 3>: Patch Antenna
	<Ant. 4>: Patch Antenna

**Remark:** The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

## 1.2. Modification of EUT

No modifications made to the EUT during the testing.

## 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 333, 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

<b>Test Site</b>	Sporton International Inc. EMC & Wireless Communications Laboratory
<b>Test Site Location</b>	No.30-2, Dingfu Tsuen, Linkou District, New Taipei City, Taiwan 244 (R.O.C.) TEL: +886-2-2603-5367 / +886-2-2601-1640 FAX: +886-2-2601-1695
<b>Test Site No.</b>	<b>Sporton Site No.</b> OS04-LK

FCC designation No.: TW1093 and TW1095

## 1.4. Applicable Standards

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

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

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

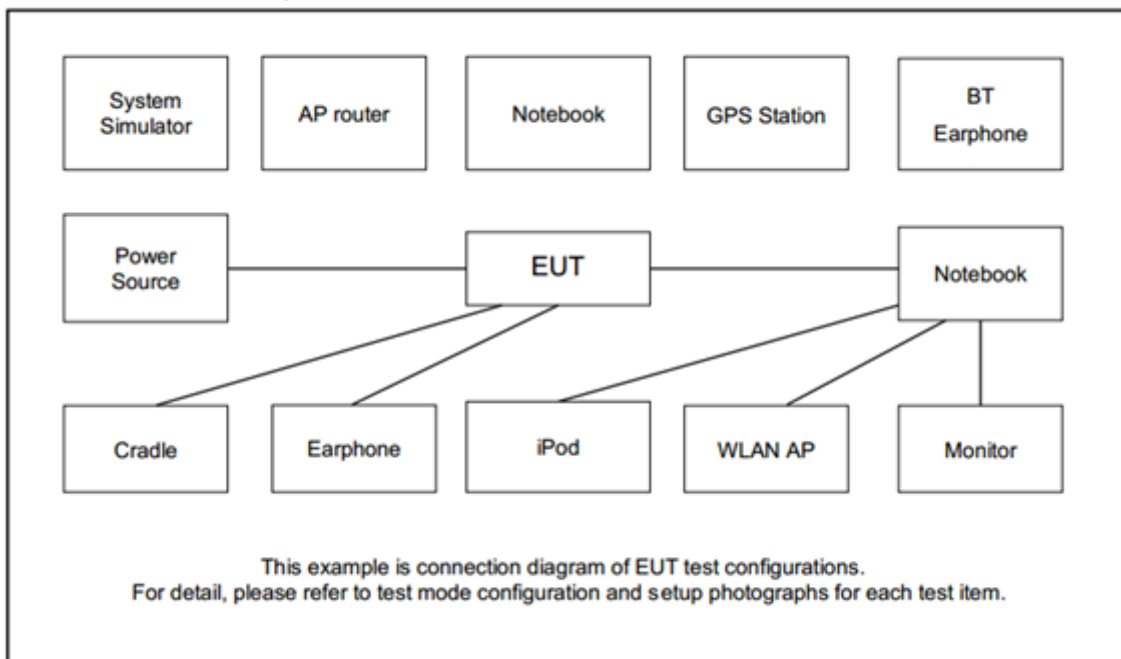
## 2. Test Configuration of Equipment Under Test

### 2.1. Test Mode

The EUT is tested along with the peripherals, operating under possible configurations in compliant with normal operation. The maximum emissions can be identified by a pre-scan carried out in different orientations of placement pursuant to ANSI C63.4-2014. Frequency range covered: Conduction Emission (150 kHz to 30 MHz), Radiation Emission (30 MHz to the 5<sup>th</sup> harmonics of the highest fundamental frequency or to 40 GHz, whichever is lower).

Test Items	Functions Enabled
<b>AC Conducted Emission</b>	Mode 1: 5G NR n48 + Antenna*4
<b>Radiated Emissions</b>	Mode 1: 5G NR n48 + Antenna*4

### 2.2. Connection Diagram of Test System





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

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
2.	Notebook	DELL	Latitude 3420	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	Server	Quanta	D52Y-2U	ITE 142692	N/A	Unshielded,1.8m

### 2.4. EUT Operation Test Setup

The EUT is in 5G NR idle mode during the test. The EUT is synchronized with the BCCH, and has been continuous receiving mode by setting paging reorganization of the system simulator.



### 3. Test Result

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

##### 3.1.1. Limits of AC Conducted Emission

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

<Class A>

Frequency of emission (MHz)	Conducted limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	79	66
0.5-30	73	60

##### 3.1.2. Measuring Instruments

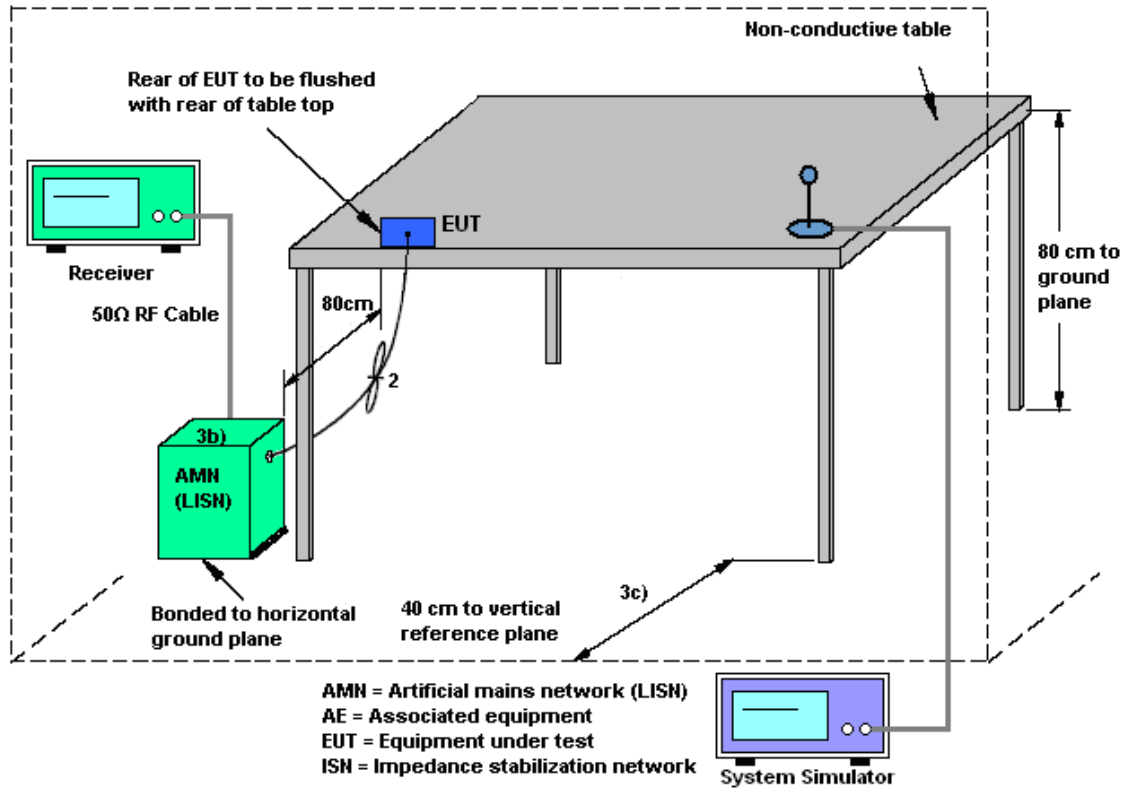
Please refer to the measuring equipment list in this test report.

##### 3.1.3. Test Procedure

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



### 3.1.4. Test Setup



### 3.1.5. Test Result of AC Conducted Emission

Please refer to Appendix A.

### 3.2. Test of Radiated Emission Measurement

#### 3.2.1. Limit of Radiated Emission

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

<Class A>

Frequency (MHz)	Field Strength (microvolts/meter)	Field strength (dBuV/m)	Measurement Distance (meters)
30-88	90	39.08	10
88-216	150	43.52	10
216-960	210	46.44	10

Frequency (MHz)	Field Strength (microvolts/meter) at 10m	Field strength (dBuV/m) at 10m	Field Strength (microvolts/meter) at 3m	Field strength (dBuV/m) at 3m
Above 960	300	49.54	1000	60

**Note:**

1. The RSE test results above 18GHz are measured at a test distance of 1m. According to the test rules, the distance extrapolation factor should be used and the test results of 3m should be reported in this report.
2. Distance extrapolation factor = 20 log (specific distance / test distance) (dB)

#### 3.2.2. Measuring Instruments

Please refer to the measuring equipment list in this test report.

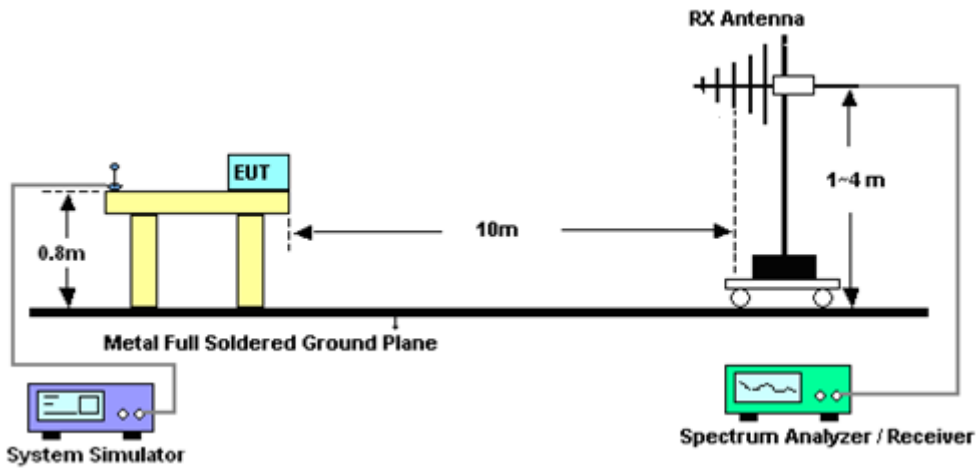


### **3.2.3. Test Procedures**

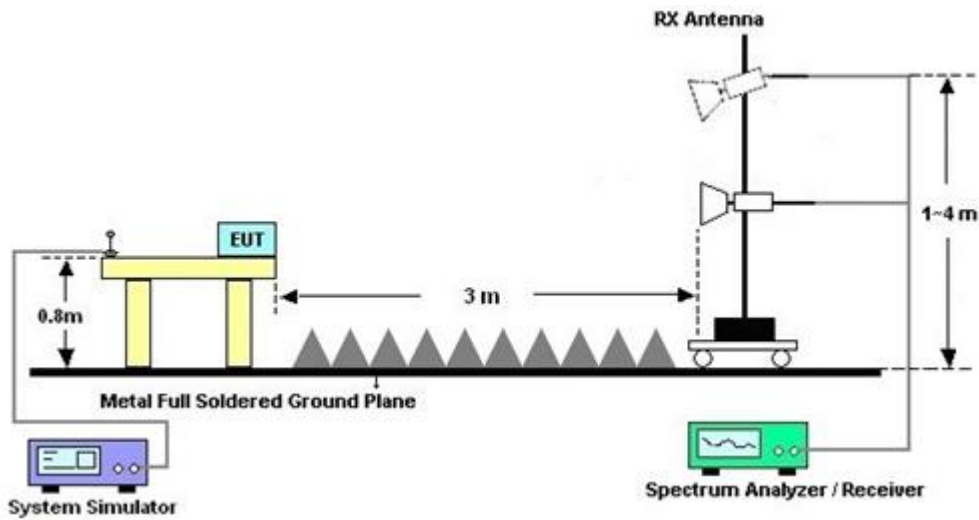
1. The EUT is placed on a turntable with 0.8 meter above ground.
2. The EUT is set 10 meters (30 M~1 G), 3 meters (1 G~ 18 G) and 1 meters (18GHz~40GHz) from the interference receiving antenna, which is mounted on the top of a variable height antenna tower.
3. The table is rotated 360 degrees to determine the position of the highest radiation.
4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT is arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120 kHz/VBW=300 kHz for frequency below 1 GHz; RBW=1 MHz VBW=3 MHz (Peak), RBW=1 MHz/VBW=10 Hz (Average) for frequency above 1 GHz).
7. If the emission level of the EUT in peak mode is 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.

### 3.2.4. Test Setup of Radiated Emission

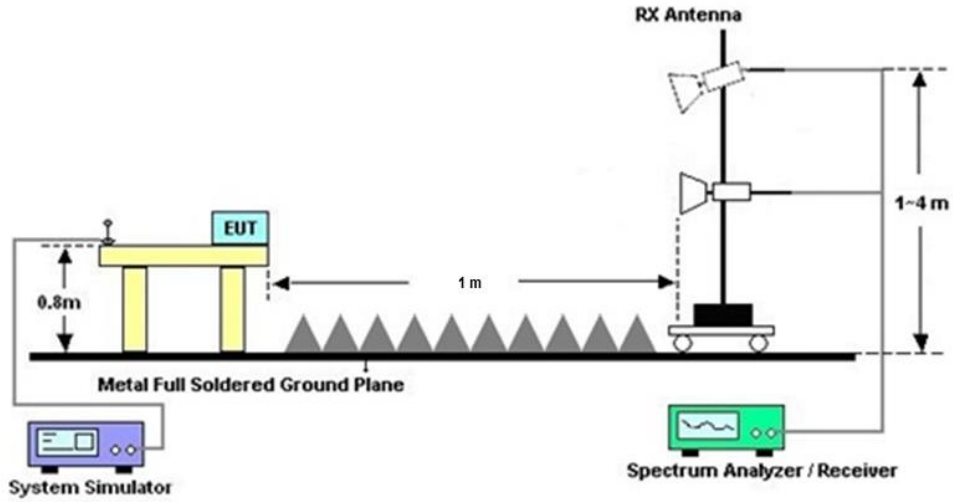
For Radiated Emissions from 30 MHz to 1 GHz



For Radiated Emissions from 1GHz to 18GHz



For Radiated Emissions above 18GHz



### 3.2.5. Test Result of Radiated Emission

Please refer to Appendix B.



## 4. List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02037	1GHz~18GHz	Dec. 30, 2022	Sep. 18, 2023	Dec. 29, 2023	Radiation (03CH06-HY)
Preamplifier	Jet-Power	JPA00101800-30-10P	1601180001	1GHz~18GHz	Jul. 16, 2023	Sep. 18, 2023	Jul. 15, 2024	Radiation (03CH06-HY)
RF Cable	HUBER + SUHNER	104 SF102_2000mm SF102_3000mm SF102_7000mm	802433/4 532421/2 532422/2 532299/2	30Mhz to 18Ghz	Jul. 03, 2023	Sep. 18, 2023	Jul. 02, 2024	Radiation (03CH06-HY)
Hygrometer	TECEPEL	DTM-303B	TP210018	N/A	Oct. 27, 2022	Sep. 18, 2023	Oct. 26, 2023	Radiation (03CH06-HY)
Controller	INN-CO	EM1000	060782	Control Turn table & Ant Mast	N/A	Sep. 18, 2023	N/A	Radiation (03CH06-HY)
Antenna Mast	MF	MF-7802	MF780208212	1m~4m	N/A	Sep. 18, 2023	N/A	Radiation (03CH06-HY)
Turn Table	INN-CO	DS2000	420/650/00	0-360 degree	N/A	Sep. 18, 2023	N/A	Radiation (03CH06-HY)
Software	Audix	E3 6.2009-8-24(k5)	N/A	N/A	N/A	Sep. 18, 2023	N/A	Radiation (03CH06-HY)
Signal Analyzer	R&S	FSV3044	101104	10Hz~44GHz	Feb. 21, 2023	Sep. 18, 2023	Feb. 20, 2024	Radiation (03CH06-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	18~40GHz	Nov. 24, 2022	Sep. 18, 2023	Nov. 23, 2023	Radiation (03CH06-HY)
Preamplifier	EMEC	EM18G40G	0600789	18~40GHz	Jul. 25, 2023	Sep. 18, 2023	Jul. 24, 2024	Radiation (03CH06-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/2	9KHz ~ 40GHz	Apr. 20, 2023	Sep. 18, 2023	Apr. 19, 2024	Radiation (03CH06-HY)
Preamplifier	COM-POWER	PAM-103	18020199	1MHz-1000MHz	Jan. 06, 2023	Sep. 21, 2023	Jan. 05, 2024	Radiation (OS04-LK)
Test Receiver	Rohde & Schwarz	ESU26	100390	9 kHz ~ 2.75 GHz	May 30, 2023	Sep. 21, 2023	May 29, 2024	Radiation (OS04-LK)
Bilog Antenna	TESEQ	CBL 6111D&00802N1 D01N-06	54682 & AT-N0603	30 MHz ~ 1 GHz	Sep. 17, 2023	Sep. 21, 2023	Sep. 16, 2024	Radiation (OS04-LK)
Turn Table	EMCO	2080	9711-2021	0 ~ 360 degree	NCR	Sep. 21, 2023	NCR	Radiation (OS04-LK)
Antenna Mast	EMCO	2075	9711-2115	1 m ~ 4 m	NCR	Sep. 21, 2023	NCR	Radiation (OS04-LK)
RF Cable-R10m	Woken	CFD400NL-LW	CB011	30 MHz ~ 1 GHz	Dec. 07, 2022	Sep. 21, 2023	Dec. 06, 2023	Radiation (OS04-LK)
Software	Audix	E3	Version:4	-	NCR	Sep. 21, 2023	NCR	Radiation (OS04-LK)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Sep. 19, 2023	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Dec. 01, 2022	Sep. 19, 2023	Nov. 30, 2023	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 17, 2022	Sep. 19, 2023	Nov. 16, 2023	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 17, 2022	Sep. 19, 2023	Nov. 16, 2023	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Sep. 19, 2023	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	00691	9kHz-200MHz	Jul. 28, 2023	Sep. 19, 2023	Jul. 27, 2024	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 29, 2022	Sep. 19, 2023	Dec. 28, 2023	Conduction (CO05-HY)



## 5. Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	3.5 dB
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### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.5 dB
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### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	4.7 dB
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### Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	4.6 dB
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### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.2 dB
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## Appendix A. AC Conducted Emission Test Results

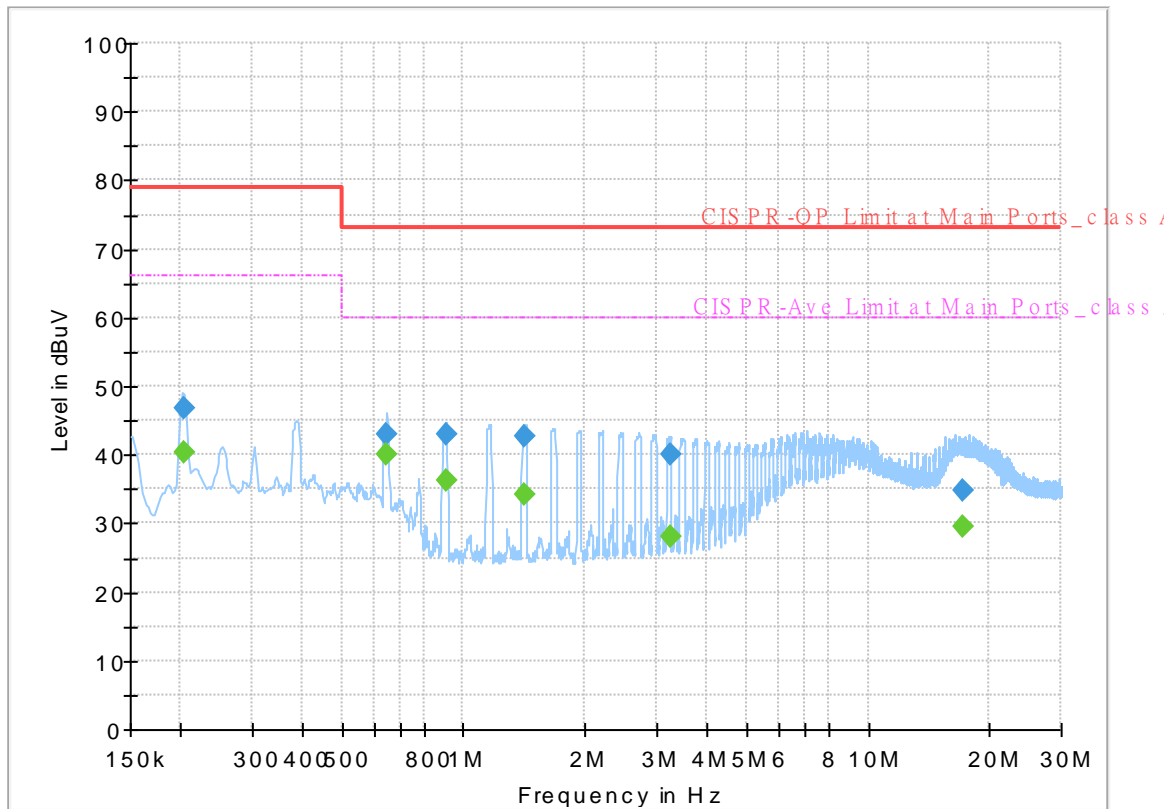
Test Engineer :	Calvin Wang	Temperature :	23~26°C
		Relative Humidity :	45~55%



## EUT Information

Report NO : 372001  
 Test Mode : Mode 1  
 Test Voltage : 120Vac/60Hz  
 Phase : Line

Full Spectrum



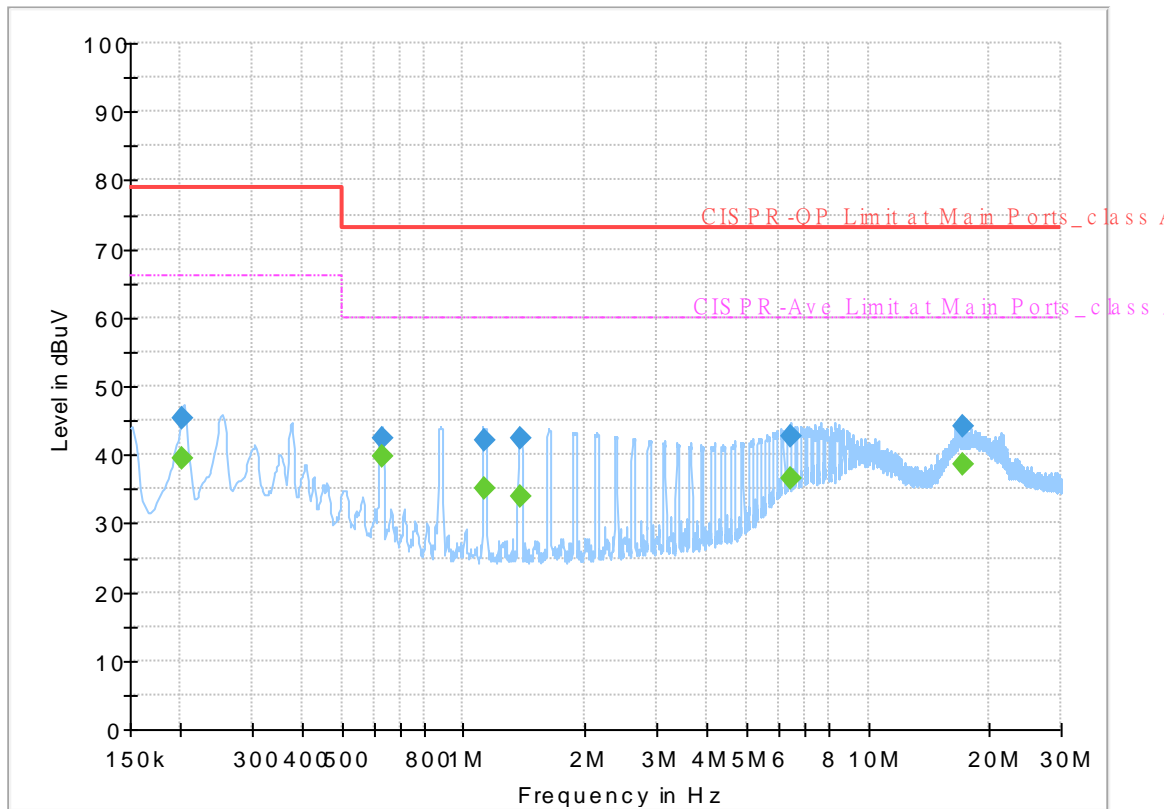
## Final\_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.204000	---	40.39	66.00	25.61	L1	OFF	19.8
0.204000	46.76	---	79.00	32.24	L1	OFF	19.8
0.645000	---	40.02	60.00	19.98	L1	OFF	19.8
0.645000	43.05	---	73.00	29.95	L1	OFF	19.8
0.908250	---	36.37	60.00	23.63	L1	OFF	19.8
0.908250	42.90	---	73.00	30.10	L1	OFF	19.8
1.410000	---	34.09	60.00	25.91	L1	OFF	19.8
1.410000	42.76	---	73.00	30.24	L1	OFF	19.8
3.239250	---	28.17	60.00	31.83	L1	OFF	19.9
3.239250	40.05	---	73.00	32.95	L1	OFF	19.9
17.164500	---	29.61	60.00	30.39	L1	OFF	19.9
17.164500	34.79	---	73.00	38.21	L1	OFF	19.9

## EUT Information

Report NO : 372001  
 Test Mode : Mode 1  
 Test Voltage : 120Vac/60Hz  
 Phase : Neutral

Full Spectrum



## Final Result

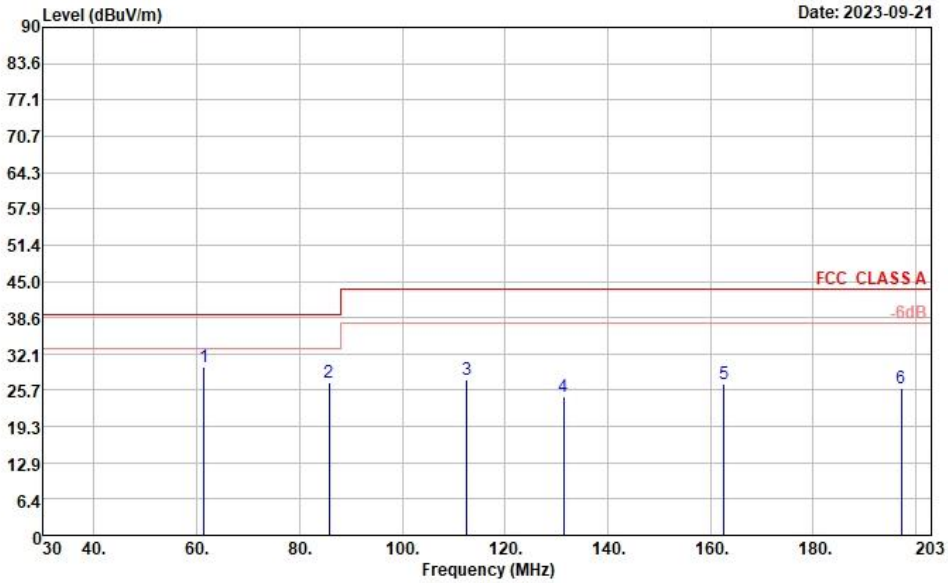
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.201750	---	39.36	66.00	26.64	N	OFF	19.8
0.201750	45.45	---	79.00	33.55	N	OFF	19.8
0.627000	---	39.67	60.00	20.33	N	OFF	19.8
0.627000	42.51	---	73.00	30.49	N	OFF	19.8
1.128750	---	34.96	60.00	25.04	N	OFF	19.8
1.128750	42.20	---	73.00	30.80	N	OFF	19.8
1.387500	---	33.80	60.00	26.20	N	OFF	19.8
1.387500	42.44	---	73.00	30.56	N	OFF	19.8
6.429750	---	36.67	60.00	23.33	N	OFF	19.9
6.429750	42.67	---	73.00	30.33	N	OFF	19.9
17.164500	---	38.60	60.00	21.40	N	OFF	20.0
17.164500	44.27	---	73.00	28.73	N	OFF	20.0



## Appendix B. Radiated Emission Test Result

Test Engineer :	Giant Chen	Temperature :	21.4~26.3°C
		Relative Humidity :	40.3~45.8%
Test Distance :	10m	Polarization :	Horizontal

■ Emission level (dBμV/m) = 20 log Emission level (μV/m)  
 ■ Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level



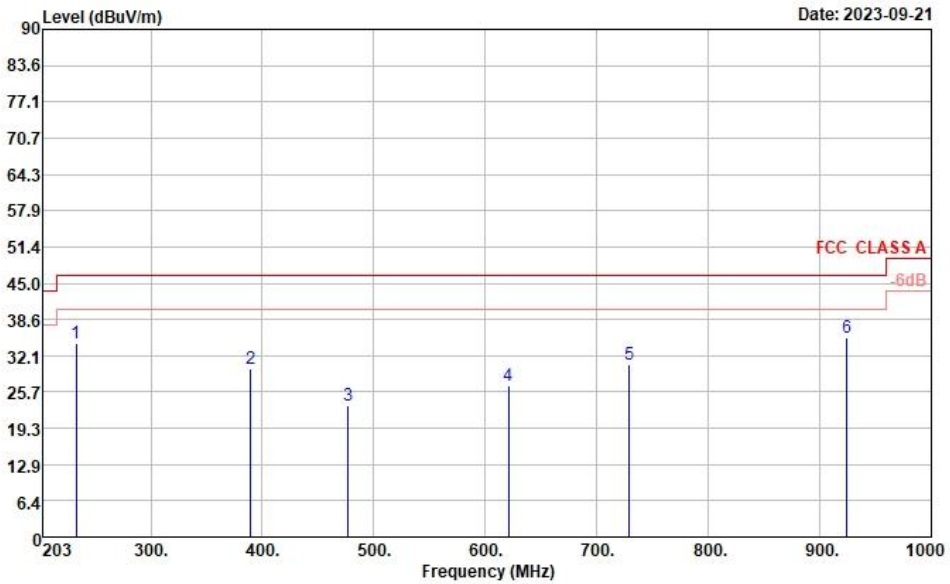
Site : OS04-LK  
 Condition : FCC CLASS A 10m HORIZONTAL  
 Project : 372001  
 Power : 120Vac/60Hz  
 Mode : 1

	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	61.49	29.87	-9.13	39.00	52.30	12.09	1.20	35.72	390	228	QP
2	85.71	27.12	-11.88	39.00	47.15	14.26	1.41	35.70	---	---	Peak
3	112.52	27.65	-15.85	43.50	44.08	17.53	1.63	35.59	---	---	Peak
4	131.38	24.61	-18.89	43.50	40.66	17.80	1.74	35.59	---	---	Peak
5	162.69	26.75	-16.75	43.50	44.15	16.29	1.86	35.55	---	---	Peak
6	197.12	26.02	-17.48	43.50	44.08	15.16	2.16	35.38	---	---	Peak



Test Engineer :	Giant Chen	Temperature :	21.4~26.3°C
		Relative Humidity :	40.3~45.8%
Test Distance :	10m	Polarization :	Horizontal

- Emission level (dBµV/m) = 20 log Emission level (µV/m)
- Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level



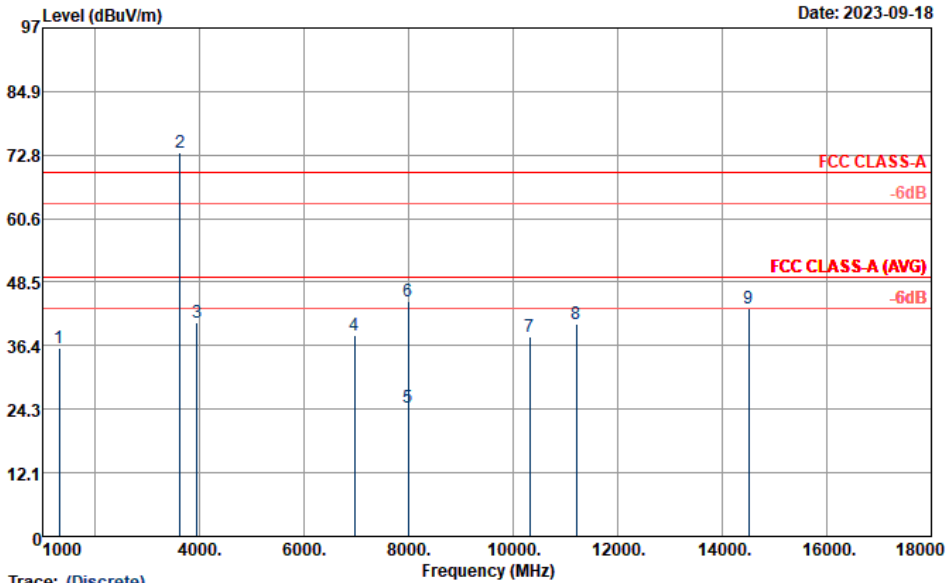
Site : OS04-LK  
 Condition : FCC CLASS A 10m HORIZONTAL  
 Project : 372001  
 Power : 120Vac/60Hz  
 Mode : 1

	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	233.29	34.36	-12.04	46.40	50.61	16.73	2.43	35.41	---	---	Peak
2	389.50	29.89	-16.51	46.40	40.37	21.51	3.02	35.01	---	---	Peak
3	477.17	23.41	-22.99	46.40	31.08	23.64	3.45	34.76	---	---	Peak
4	620.63	26.85	-19.55	46.40	31.01	25.96	4.16	34.28	---	---	Peak
5	729.02	30.68	-15.72	46.40	32.33	27.53	4.66	33.84	---	---	Peak
6	924.29	35.30	-11.10	46.40	33.42	29.55	5.51	33.18	---	---	Peak



Test Engineer :	Bor-Shiang Huang	Temperature :	23~26°C
		Relative Humidity :	43~47%
Test Distance :	3m	Polarization :	Horizontal

- Distance extrapolation factor = 20 log (specific distance / test distance) (dB)
- Factor(dB) = Antenna Factor + Cable Loss - Preamp Factor
- Level = Read Level + Factor(dB) - Distance extrapolation factor



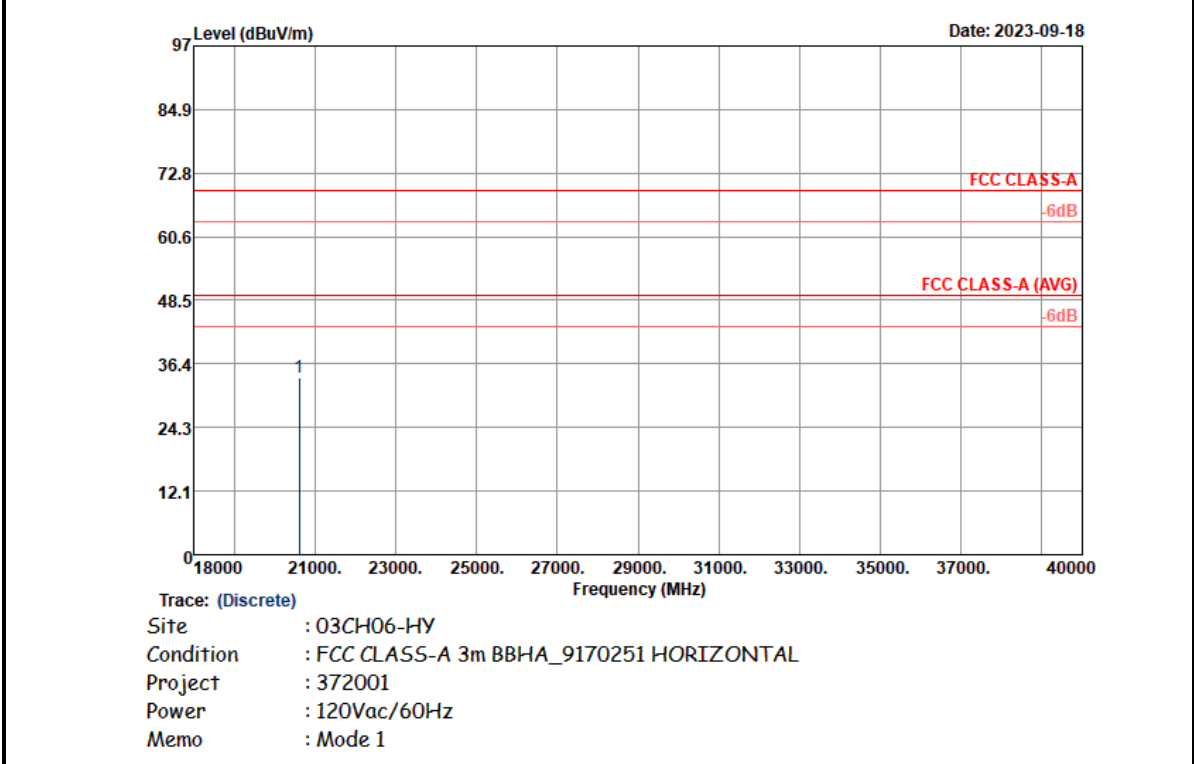
Trace: (Discrete)  
 Site : 03CH06-HY  
 Condition : FCC CLASS-A 3m 9120D\_02037 HORIZONTAL  
 Project : 372001  
 Power : 120Vac/60Hz  
 Memo : Mode 1

Frequency	Level	Distance extrapolation	Over	Limit	Read	Antenna	Preamp	Path	Ant	Table	Peak
( MHz )	( dBμV/m )	( dB )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )
1314	36.01	10.45	-33.53	69.54	77.16	25.76	63.65	7.19	-	-	P
3946	40.87	10.45	-28.67	69.54	71.93	30.79	63.47	12.07	-	-	P
6964	38.37	10.45	-31.17	69.54	62.59	35.63	64.15	14.75	-	-	P
7992	24.46	10.45	-25.08	69.54	47.3	36.9	64.28	14.99	-	-	A
7992	44.86	10.45	-24.68	69.54	67.7	36.9	64.28	14.99	-	-	P
10312	38.09	10.45	-31.45	69.54	57.4	38.35	64.11	16.9	-	-	P
11216	40.61	10.45	-28.93	69.54	58.65	38.73	63.82	17.5	-	-	P
14500	43.4	10.45	-26.14	69.54	55.8	40.7	63.71	21.06	-	-	P



<b>Test Engineer :</b>	Bor-Shiang Huang	<b>Temperature :</b>	23~26°C
		<b>Relative Humidity :</b>	43~47%
<b>Test Distance :</b>	1m	<b>Polarization :</b>	Horizontal

- Distance extrapolation factor = 20 log (specific distance / test distance) (dB)
- Factor(dB) = Antenna Factor + Cable Loss - Preamp Factor
- Level = Read Level + Factor(dB) - Distance extrapolation factor

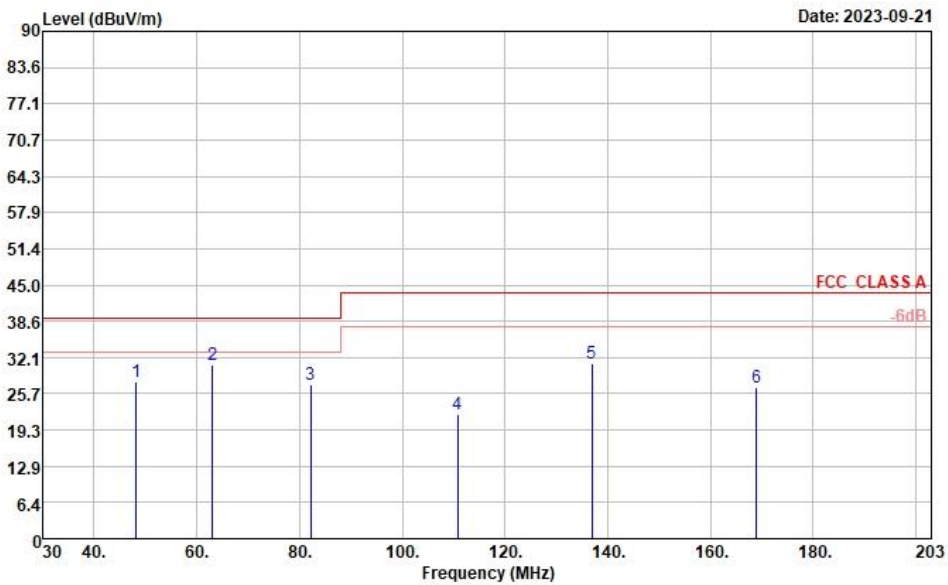


Frequency	Level	Distance extrapolation	Over	Limit	Read	Antenna	Preamp	Path	Ant	Table	Peak
( MHz )	( dBμV/m )	( dB )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )
20618	33.9	19.99	--35.64	69.54	50.34	37.59	60	25.96	-	-	P



Test Engineer :	Giant Chen	Temperature :	21.4~26.3°C
		Relative Humidity :	40.3~45.8%
Test Distance :	10m	Polarization :	Vertical

- Emission level (dBμV/m) = 20 log Emission level (μV/m)
- Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level



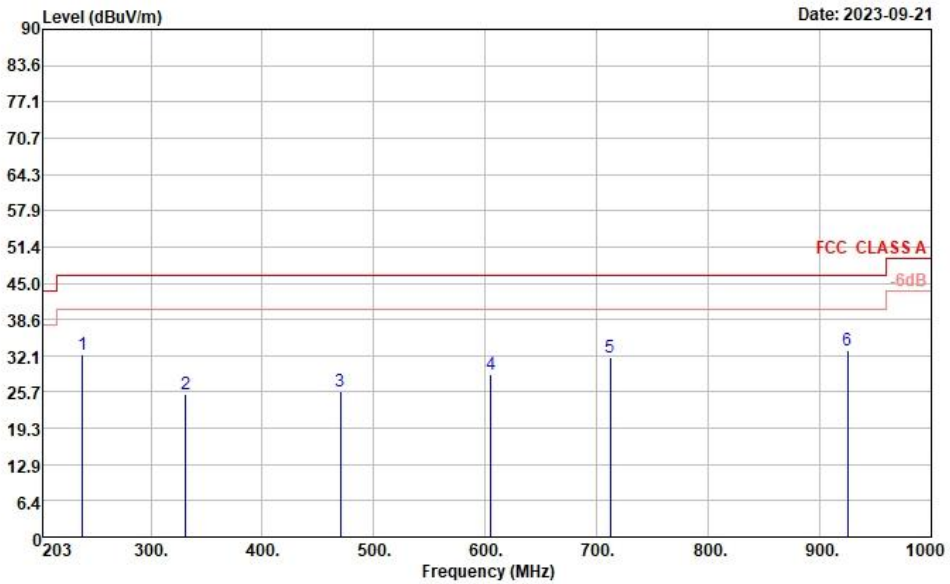
Site : OS04-LK  
 Condition : FCC CLASS A 10m VERTICAL  
 Project : 372001  
 Power : 120Vac/60Hz  
 Mode : 1

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	48.17	27.86	-11.14	39.00	47.10	15.35	1.10	35.69	103	280	QP
2	63.04	30.74	-8.26	39.00	53.23	12.01	1.21	35.71	325	142	QP
3	82.25	27.38	-11.62	39.00	47.98	13.74	1.37	35.71	---	---	Peak
4	110.79	22.11	-21.39	43.50	38.58	17.50	1.63	35.60	---	---	Peak
5	136.91	31.16	-12.34	43.50	47.11	17.89	1.77	35.61	---	---	Peak
6	168.92	26.74	-16.76	43.50	44.60	15.78	1.90	35.54	---	---	Peak



Test Engineer :	Giant Chen	Temperature :	21.4~26.3°C
		Relative Humidity :	40.3~45.8%
Test Distance :	10m	Polarization :	Vertical

- Emission level (dBμV/m) = 20 log Emission level (μV/m)
- Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level



Site : OS04-LK  
 Condition : FCC CLASS A 10m VERTICAL  
 Project : 372001  
 Power : 120Vac/60Hz  
 Mode : 1

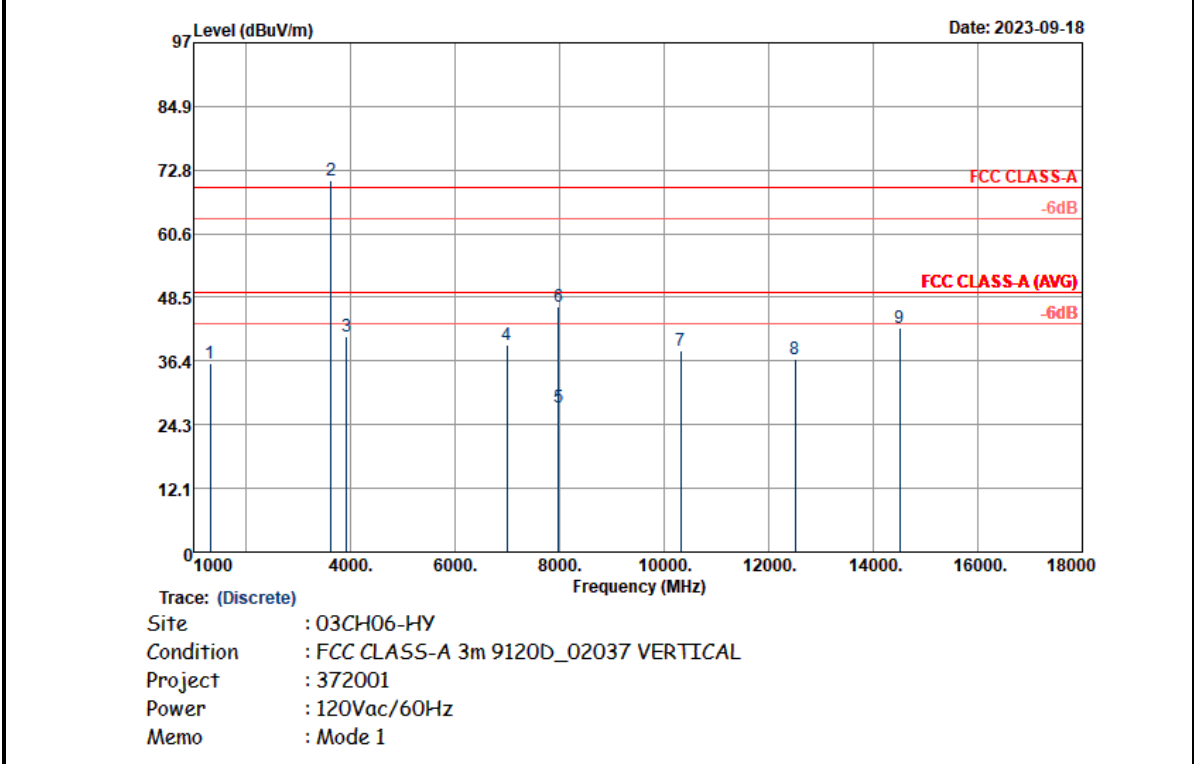
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	238.87	32.45	-13.95	46.40	48.09	17.32	2.46	35.42	---	---	Peak
2	331.32	25.23	-21.17	46.40	37.69	19.84	2.85	35.15	---	---	Peak
3	470.00	25.93	-20.47	46.40	33.71	23.56	3.43	34.77	---	---	Peak
4	604.69	28.94	-17.46	46.40	33.20	25.84	4.14	34.24	---	---	Peak
5	712.28	31.80	-14.60	46.40	34.43	26.82	4.59	34.04	---	---	Peak
6	925.08	33.12	-13.28	46.40	31.23	29.57	5.51	33.19	---	---	Peak





Test Engineer :	Bor-Shiang Huang	Temperature :	23~26°C
		Relative Humidity :	43~47%
Test Distance :	3m	Polarization :	Vertical

- Distance extrapolation factor = 20 log (specific distance / test distance) (dB)
- Factor(dB) = Antenna Factor + Cable Loss - Preamp Factor
- Level = Read Level + Factor(dB) - Distance extrapolation factor

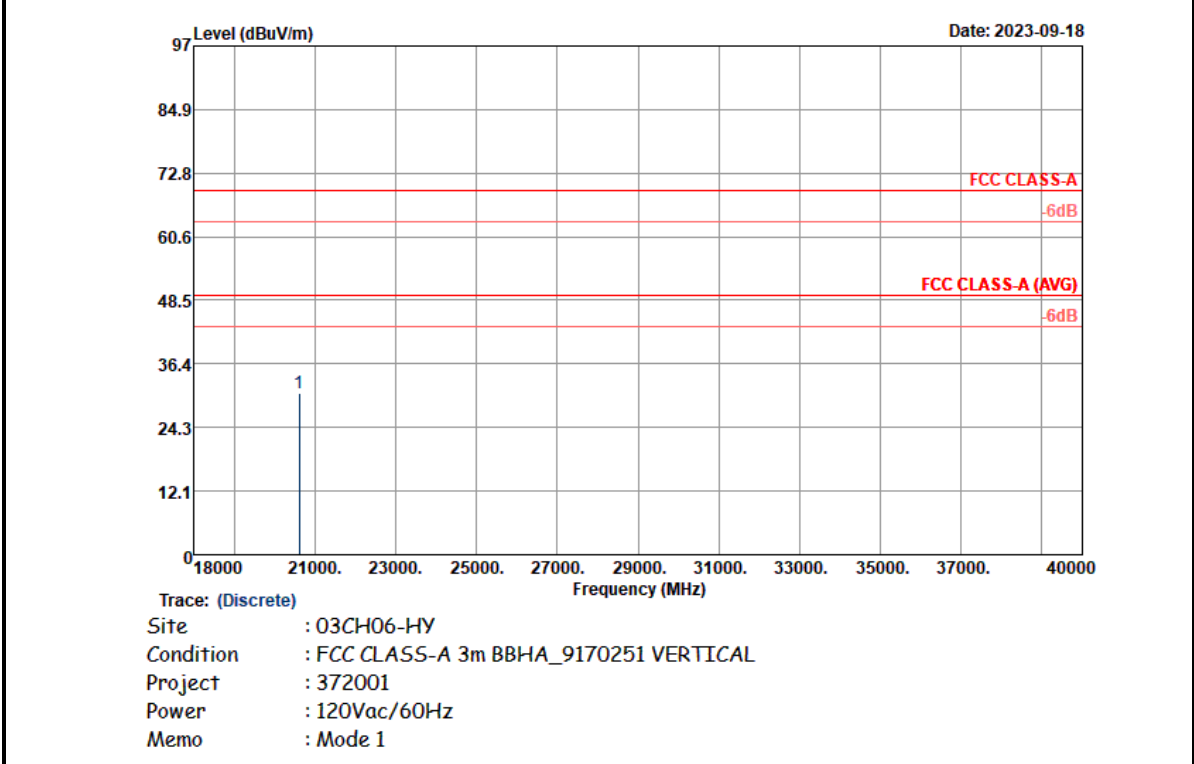


Frequency	Level	Distance extrapolation	Over	Limit	Read	Antenna	Preamp	Path	Ant	Table	Peak
( MHz )	( dBμV/m )	( dB )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )
1312	35.9	10.45	-33.64	69.54	77.03	25.78	63.65	7.19	-	-	P
3920	41	10.45	-28.54	69.54	72.14	30.74	63.47	12.04	-	-	P
6994	39.39	10.45	-30.15	69.54	63.55	35.69	64.16	14.76	-	-	P
7986	27.56	10.45	-21.98	69.54	50.4	36.9	64.28	14.99	-	-	A
7986	46.62	10.45	-22.92	69.54	69.46	36.9	64.28	14.99	-	-	P
10312	38.42	10.45	-31.12	69.54	57.73	38.35	64.11	16.9	-	-	P
12504	36.8	10.45	-32.74	69.54	53.63	38.91	63.99	18.7	-	-	P
14500	42.81	10.45	-26.73	69.54	55.21	40.7	63.71	21.06	-	-	P



<b>Test Engineer :</b>	Bor-Shiang Huang	<b>Temperature :</b>	23~26°C
		<b>Relative Humidity :</b>	43~47%
<b>Test Distance :</b>	1m	<b>Polarization :</b>	Vertical

- Distance extrapolation factor = 20 log (specific distance / test distance) (dB)
- Factor(dB) = Antenna Factor + Cable Loss - Preamp Factor
- Level = Read Level + Factor(dB) - Distance extrapolation factor



Frequency	Level	Distance extrapolation	Over	Limit	Read	Antenna	Preamp	Path	Ant	Table	Peak
( MHz )	( dBμV/m )	( dB )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )
20618	30.74	19.99	-38.8	69.54	47.18	37.59	60	25.96	-	-	P