# **FCC Test Report**

APPLICANT : Commtiva Technology Limited

**EQUIPMENT**: Smart Phone

BRAND NAME : InFocus

MODEL NAME : VZU

MARKETING NAME : InFocus VZU FCC ID : 2AL86VZU

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

**CLASSIFICATION**: Certification

The product was received on May 07, 2017 and testing was completed on May 28, 2017. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by: Louis Wu / Manager

Louis Win

Approved by: Jones Tsai / Manager



No. 52, Hwa Ya 1<sup>st</sup> Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.

SPORTON INTERNATIONAL INC.

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Report Issued Date : Jun. 09, 2017
Report Version : Rev. 01

Testing Laboratory 1190

Report No.: FC721738-02

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## **REVISION HISTORY**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC721738-02	Rev. 01	Initial issue of report	Jun. 09, 2017

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## **SUMMARY OF TEST RESULT**

Report Section	FCC Rule	Description	Limit	Result	Remark
					Under limit
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	12.30 dB at
					0.158 MHz
					Under limit
2.2	15.109	15.109 Radiated Emission	< 15.109 limits	PASS	2.15 dB at
3.2					80.800 MHz
					for Quasi-Peak

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## 1. General Description

## 1.1. Applicant

#### **Commtiva Technology Limited**

Grand Pavilion, Hibiscus Way, 802 West Bay Road, P. O. Box 31119, Grand Cayman, KY1-1205 Cayman Islands

### 1.2. Manufacturer

#### SHENZHEN HONGFUJIN PRECISION INDURSTY CO., LTD

AREA B, HONGGUAN TECHNOLOGY PARK, FOXCONN, GUANLAN, LONGHUA NEW DISTRICT, SHENZHEN, GUANGDONG PROVINCE, P.R.CHINA

### 1.3. Product Feature of Equipment Under Test

WCDMA/LTE, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, NFC, and GPS.

WODW/VETE, Blackoutt, WITT 2:401/2 002:110/9/11, WI O, and OT O.						
Product Specification subjective to this standard						
	WWAN: Fixed Internal Antenna					
	WLAN: Monopole Antenna					
Antenna Type	Bluetooth: Monopole Antenna					
	GPS / Glonass : Monopole Antenna					
	NFC: Loop Antenna					

#### 1.4. Modification of EUT

No modifications are made to the EUT during all test items.

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#### 1.5. Test Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW1190 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.			
	No. 52, Hwa Ya 1 <sup>st</sup> Rd., Hwa Ya Technology Park,			
Toot Site Leastion	Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.			
Test Site Location	TEL: +886-3-327-3456			
	FAX: +886-3-328-4978			
Took Site No	Sporton	Site No.		
Test Site No.	CO05-HY	03CH06-HY		

Test Site	SPORTON INTERNATIONAL INC.			
	No. 30-2, Dingfu Tsuen, Linkou District,			
Took Site Leastion	New Taipei City, Taiwan 244, R.O.C.			
Test Site Location	TEL: +886-2-2603-5367 / +886-2-2601-1640			
	FAX: +886-2-2601-1695			
Toot Site No	Sporton Site No. FCC Registration No.			
Test Site No.	OS03-LK	TW1023		

### 1.6. 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.

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## 2. Test Configuration of Equipment Under Test

### 2.1. Test Mode

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

Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

Test Items	Function Type
	Mode 1: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + NFC On + Earphone + USB Cable (Charging from Adapter)
AC Conducted	Mode 2: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + MPEG4 + Earphone + USB Cable (Charging from Adapter)
Emission	Mode 3: LTE Band 4 Idle + Bluetooth Idle + WLAN Idle + Camera + Earphone + USB Cable (Charging from Adapter)
	Mode 4: LTE Band 12 Idle + Bluetooth Idle + WLAN Idle + GPS Rx + Earphone + USB Cable (Data Link with Notebook)
	Mode 1: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + NFC On + Earphone + USB Cable (Charging from Adapter)
Radiated	Mode 2: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + MPEG4 + Earphone + USB Cable (Charging from Adapter)
Emissions	Mode 3: LTE Band 4 Idle + Bluetooth Idle + WLAN Idle + Camera + Earphone + USB Cable (Charging from Adapter)
	Mode 4: LTE Band 12 Idle + Bluetooth Idle + WLAN Idle + GPS Rx + Earphone + USB Cable (Data Link with Notebook)

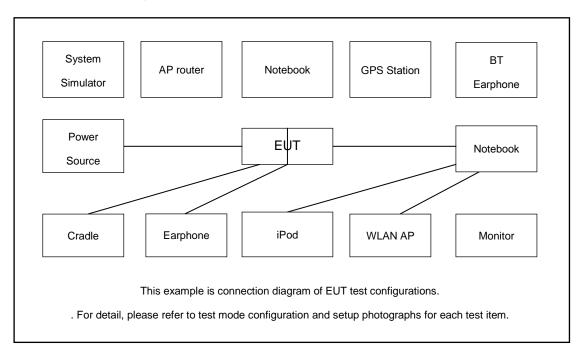
#### Remark:

- 1. The worst case of AC is mode 4; only the test data of this mode was reported.
- 2. The worst case of RE is mode 1; only the test data of this mode was reported.
- Data Link with Notebook means data application transferred mode between EUT and Notebook.

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## 2.2.Connection Diagram of Test System



## 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.	GPS Station	Pendulum	GSG-54	N/A	N/A	Unshielded, 1.8 m
3.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
4.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
5.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
6.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A
7.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A

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### 2.4. EUT Operation Test Setup

The EUT was in WCDMA or LTE idle mode during the testing. The EUT was synchronized to the BCCH, and is in continuous receiving mode by setting system simulator's paging reorganization.

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. Turned on NFC function.

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### 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	Conducted limit (dBuV)			
(MHz)	Quasi-peak	Average		
0.15-0.5	66 to 56*	56 to 46*		
0.5-5	56	46		
5-30	60	50		

<sup>\*</sup>Decreases with the logarithm of the frequency.

#### 3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

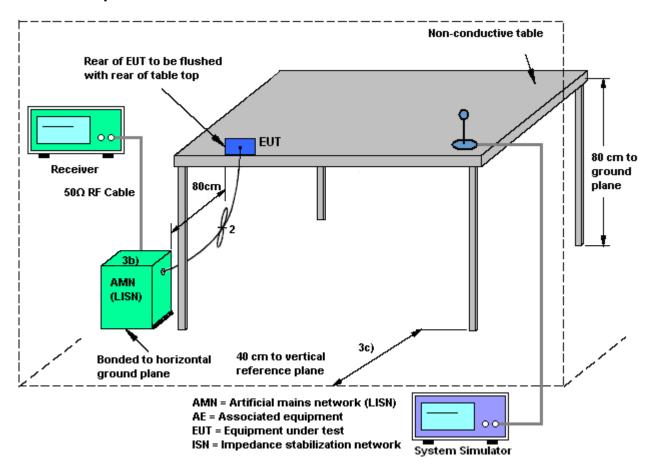
#### 3.1.3 Test Procedure

- 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.
- 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.

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### 3.1.4 Test Setup

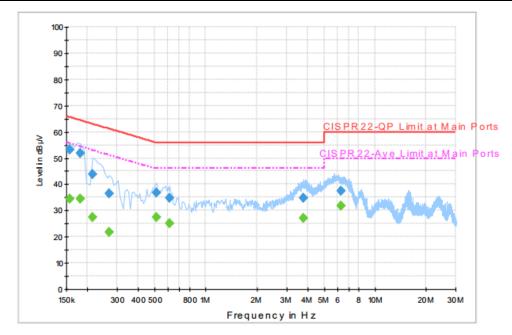


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### 3.1.5 Test Result of AC Conducted Emission

Toot Engineer	Arthur Haigh	Temperature :	<b>24~26</b> ℃
Test Engineer :	Arthur Asien	Relative Humidity :	51~55%
Test Voltage :	120Vac / 60Hz	Phase :	Line



#### Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	53.3	Off	L1	19.5	12.3	65.6
0.182000	51.9	Off	L1	19.5	12.5	64.4
0.214000	43.7	Off	L1	19.5	19.3	63.0
0.270000	36.3	Off	L1	19.5	24.8	61.1
0.510000	36.7	Off	L1	19.5	19.3	56.0
0.614000	34.8	Off	L1	19.5	21.2	56.0
3.774000	34.9	Off	L1	19.6	21.1	56.0
6.310000	37.6	Off	L1	19.6	22.4	60.0

#### Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	34.6	Off	L1	19.5	21.0	55.6
0.182000	34.6	Off	L1	19.5	19.8	54.4
0.214000	27.3	Off	L1	19.5	25.7	53.0
0.270000	21.8	Off	L1	19.5	29.3	51.1
0.510000	27.4	Off	L1	19.5	18.6	46.0
0.614000	25.2	Off	L1	19.5	20.8	46.0
3.774000	26.9	Off	L1	19.6	19.1	46.0
6.310000	31.9	Off	L1	19.6	18.1	50.0

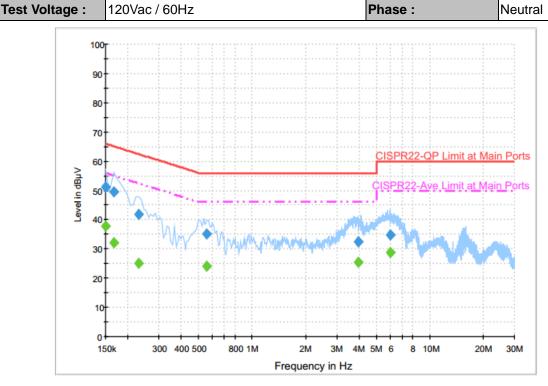
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Test Engineer : Arthur Hsieh

| Temperature : 24~26°C |
| Relative Humidity : 51~55% |



#### Final Result : Quasi-Peak

Frequency	Quasi-Peak	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	Filter	Line	(dB)	(dB)	(dBµV)
0.150000	51.2	Off	N	19.5	14.8	66.0
0.166000	49.7	Off	N	19.5	15.5	65.2
0.230000	42.0	Off	N	19.5	20.4	62.4
0.558000	35.3	Off	N	19.5	20.7	56.0
3.950000	32.5	Off	N	19.6	23.5	56.0
6.022000	34.8	Off	N	19.6	25.2	60.0

### Final Result : Average

Frequency	Average	F:14	1 :	Corr.	Margin	Limit
(MHz)	(dBµV)	Filter	Line	(dB)	(dB)	(dBµV)
0.150000	37.7	Off	N	19.5	18.3	56.0
0.166000	32.0	Off	N	19.5	23.2	55.2
0.230000	25.0	Off	N	19.5	27.4	52.4
0.558000	24.1	Off	N	19.5	21.9	46.0
3.950000	25.4	Off	N	19.6	20.6	46.0
6.022000	28.8	Off	N	19.6	21.2	50.0

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#### 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	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meters)
Above 960	500	3

Note: Measurement below 1GHz follows the CISPR 22 limit line as below:

15.109 (g) As an alternative to the radiated emission limits shown in paragraphs (a) and (b) of this section, digital devices may be shown to comply with the standards contained in Third Edition of the International Special Committee on Radio Interference (CISPR), Pub. 22, "Information Technology Equipment - Radio Disturbance Characteristics - Limits and Methods of Measurement"

Frequency	Field Strength	Measurement Distance
(MHz)	(dBuV/meter)	(meters)
30 – 230	30	10
230 – 1000	37	10

#### 3.2.2. Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

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#### 3.2.3. Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter above ground.
- 2. The EUT was set 10 meters (30M~1G) and 3 meters (1G~ 13G) from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiation.
- 4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- 5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- 6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=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 (dB $\mu$ V/m) = 20 log Emission level ( $\mu$ V/m)
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level

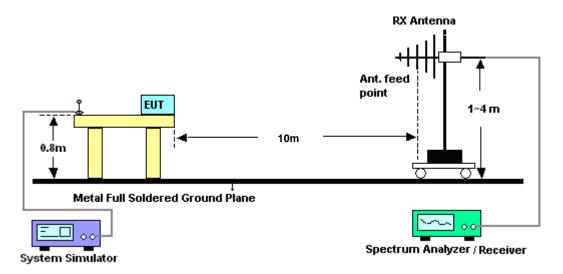
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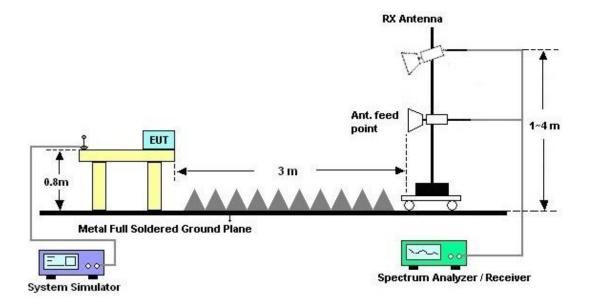
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### 3.2.4. Test Setup of Radiated Emission

#### For radiated emissions from 30MHz to 1GHz



#### For radiated emissions above 1GHz

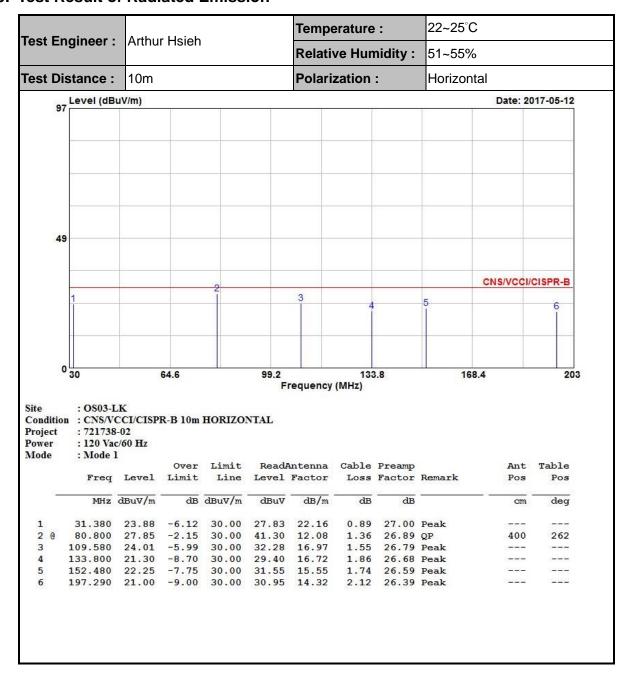


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#### 3.2.5. Test Result of Radiated Emission



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22~25°C Temperature: Test Engineer: Arthur Hsieh **Relative Humidity:** 51~55% Test Distance: 10m Polarization: Horizontal Remark: #7 is system simulator signal which can be ignored. Level (dBuV/m) Date: 2017-05-12 49 CNS/VCCI/CISPR-B 200 360. 840. 1000 Frequency (MHz) : OS03-LK Condition : CNS/VCCI/CISPR-B 10m HORIZONTAL Project : 721738-02 : 120 Vac/60 Hz Power Mode : Mode 1 Over Limit ReadAntenna Cable Preamp Ant Table Line Level Factor Freq Level Limit Loss Factor Remark Pos Pos MHz dBuV/m dB dBuV/m dBuV dB/m dB dB deg 209.600 20.97 -9.03 30.00 31.00 14.23 2.11 26.37 Peak

257.600 25.15 -11.85 37.00 30.55 18.43 2.51 26.34 Peak

30.08 18.58

30.17 19.73

54.70 25.54

2.64 26.42 Peak 3.11 26.79 Peak

3.36 27.18 Peak 3.49 27.47 Peak

5.86 27.39 Peak

24.88 -12.12 37.00

422.400 27.11 -9.89 37.00 29.33 21.60 475.200 27.62 -9.38 37.00 29.29 22.31

364.000 26.22 -10.78 37.00

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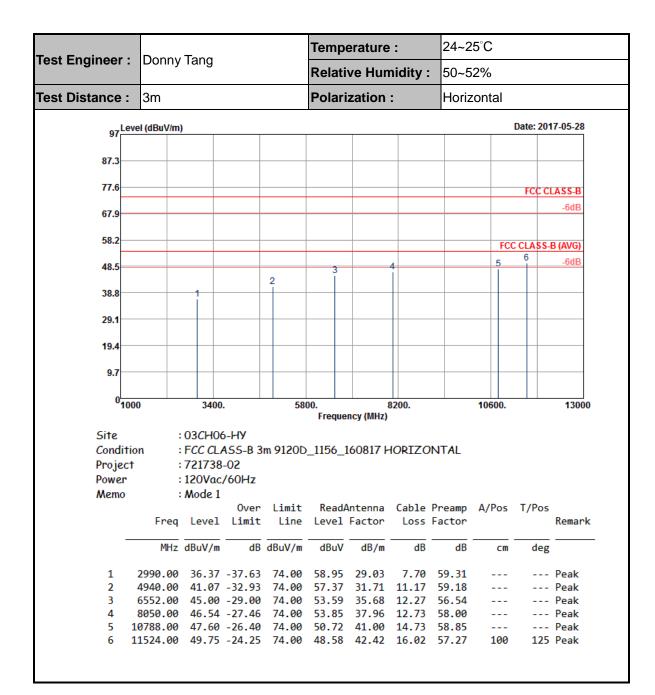
313.600

7 @ 881.400 58.71

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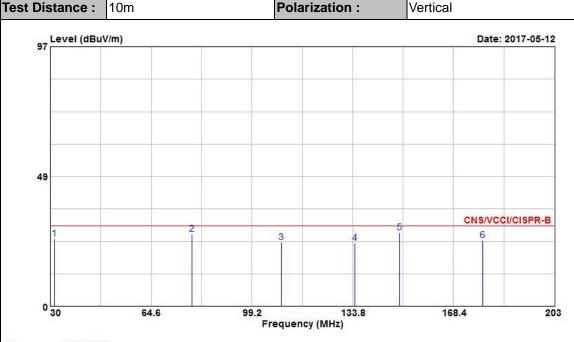


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Test Engineer : Arthur Hsieh

Temperature : 22~25°C

Relative Humidity : 51~55%



Site : OS03-LK

Condition : CNS/VCCI/CISPR-B 10m VERTICAL

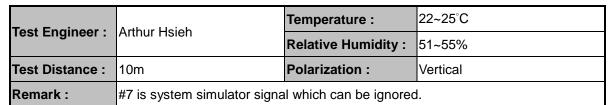
Project : 721738-02 Power : 120 Vac/60 Hz Mode : Mode 1

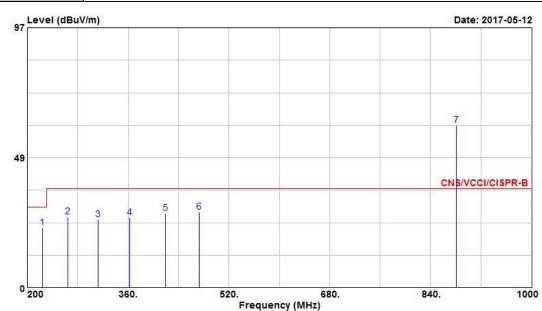
	Freq	Level	Over Limit			Antenna Factor				Ant Pos	Table Pos
10	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	31.380	25.13	-4.87	30.00	29.08	22.16	0.89	27.00	Peak	10-1-1-	
2 @	78.610	26.90	-3.10	30.00	40.60	11.85	1.35	26.90	QP		3
3	109.230	23.80	-6.20	30.00	32.07	16.97	1.55	26.79	Peak	· · · · ·	
4	134.490	23.60	-6.40	30.00	31.78	16.64	1.86	26.68	Peak		
5 @	150.000	27.36	-2.64	30.00	36.60	15.66	1.71	26.61	QP	100	281
6	178.430	24.71	-5.29	30.00	34.62	14.45	2.11	26.47	Peak		

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Site : OS03-LK

Condition : CNS/VCCI/CISPR-B 10m VERTICAL

Project : 721738-02
Power : 120 Vac/60 Hz
Mode : Mode 1

vioue	. Mode	1									
			Over	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
•	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	<u> </u>	cm	deg
1	224.000	22.39	-7.61	30.00	31.74	14.70	2.31	26.36	Peak	N <del>-1</del> -1-1	1
2	264.000	26.54	-10.46	37.00	31.97	18.37	2.54	26.34	Peak		
3	312.800	25.38	-11.62	37.00	30.57	18.58	2.64	26.41	Peak	0	
4	362.400	26.10	-10.90	37.00	30.04	19.72	3.11	26.77	Peak		
5	419.200	27.63	-9.37	37.00	29.88	21.57	3.34	27.16	Peak		
6	472.800	28.36	-8.64	37.00	30.09	22.24	3.48	27.45	Peak		
7 @	881.400	60.46			56.45	25.54	5.86	27.39	Peak		

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Test Engineer : Donny Tang

Temperature : 24~25°C

Relative Humidity : 50~52%

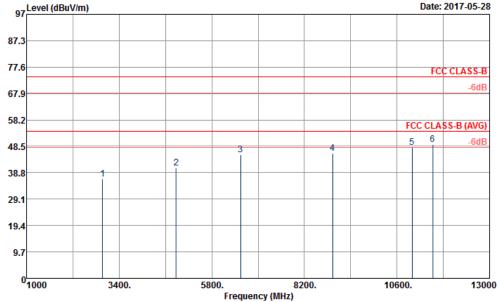
Test Distance : 3m

Polarization : Vertical

97

Level (dBuV/m)

Date: 2017-05-28



Site : 03CH06-HY

Condition : FCC CLASS-B 3m 9120D\_1156\_160817 VERTICAL

Project : 721738-02 Power : 120Vac/60Hz Memo : Mode 1

								A/Pos	T/Pos	
Freq	Level	Limit	Line	Level	Factor	Loss	Factor			Remark
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
2968.00	36.35	-37.65	74.00	59.03	28.97	7.66	59.31			Peak
4876.00	40.55	-33.45	74.00	57.20	31.58	11.06	59.29			Peak
6546.00	45.34	-28.66	74.00	53.91	35.66	12.27	56.50			Peak
8928.00	45.90	-28.10	74.00	52.29	38.17	14.27	58.83			Peak
10988.00	48.00	-26.00	74.00	50.53	41.00	15.07	58.60			Peak
11522.00	49.11	-24.89	74.00	47.94	42.42	16.02	57.27	100	189	Peak
	MHz 2968.00 4876.00 6546.00 8928.00 10988.00	MHz dBuV/m 2968.00 36.35 4876.00 40.55 6546.00 45.34 8928.00 45.90 10988.00 48.00	Freq Level Limit  MHz dBuV/m dB  2968.00 36.35 -37.65 4876.00 40.55 -33.45 6546.00 45.34 -28.66 8928.00 45.90 -28.10 10988.00 48.00 -26.00	Freq Level Limit Line  MHz dBuV/m dB dBuV/m  2968.00 36.35 -37.65 74.00 4876.00 40.55 -33.45 74.00 6546.00 45.34 -28.66 74.00 8928.00 45.90 -28.10 74.00 10988.00 48.00 -26.00 74.00	Freq Level Limit Line Level  MHz dBuV/m dB dBuV/m dBuV  2968.00 36.35 -37.65 74.00 59.03 4876.00 40.55 -33.45 74.00 57.20 6546.00 45.34 -28.66 74.00 53.91 8928.00 45.90 -28.10 74.00 52.29 10988.00 48.00 -26.00 74.00 50.53	Freq Level Limit Line Level Factor  MHz dBuV/m dB dBuV/m dBuV dBuV  2968.00 36.35 -37.65 74.00 59.03 28.97 4876.00 40.55 -33.45 74.00 57.20 31.58 6546.00 45.34 -28.66 74.00 53.91 35.66 8928.00 45.90 -28.10 74.00 52.29 38.17 10988.00 48.00 -26.00 74.00 50.53 41.00	Freq         Level         Limit         Line         Level         Factor         Loss           MHz         dBuV/m         dB         dBuV/m         dBuV         dB/m         dB           2968.00         36.35         -37.65         74.00         59.03         28.97         7.66           4876.00         40.55         -33.45         74.00         57.20         31.58         11.06           6546.00         45.34         -28.66         74.00         53.91         35.66         12.27           8928.00         45.90         -28.10         74.00         52.29         38.17         14.27           10988.00         48.00         -26.00         74.00         50.53         41.00         15.07	Freq         Level         Limit         Line         Level         Factor         Loss         Factor           MHz         dBuV/m         dB         dBuV/m         dBuV         dB/m         dB         dB           2968.00         36.35         -37.65         74.00         59.03         28.97         7.66         59.31           4876.00         40.55         -33.45         74.00         57.20         31.58         11.06         59.29           6546.00         45.34         -28.66         74.00         53.91         35.66         12.27         56.50           8928.00         45.90         -28.10         74.00         52.29         38.17         14.27         58.83	Freq         Level         Limit         Line         Level         Factor         Loss         Factor           MHz         dBuV/m         dB         dBuV         dB/m         dB         dB         cm           2968.00         36.35         -37.65         74.00         59.03         28.97         7.66         59.31            4876.00         40.55         -33.45         74.00         57.20         31.58         11.06         59.29            6546.00         45.34         -28.66         74.00         53.91         35.66         12.27         56.50            8928.00         45.90         -28.10         74.00         52.29         38.17         14.27         58.83            10988.00         48.00         -26.00         74.00         50.53         41.00         15.07         58.60	MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg  2968.00 36.35 -37.65 74.00 59.03 28.97 7.66 59.31 4876.00 40.55 -33.45 74.00 57.20 31.58 11.06 59.29 6546.00 45.34 -28.66 74.00 53.91 35.66 12.27 56.50 8928.00 45.90 -28.10 74.00 52.29 38.17 14.27 58.83 10988.00 48.00 -26.00 74.00 50.53 41.00 15.07 58.60

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## 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	May 14, 2017	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Aug. 30, 2016	May 14, 2017	Aug. 29, 2017	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 29, 2016	May 14, 2017	Nov. 28, 2017	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Dec. 06, 2016	May 14, 2017	Dec. 05, 2017	Conduction (CO05-HY)
Amplifier	HP	8447D	2944A09068	0.1MHz ~ 1.3GHz	Dec. 12, 2016	May 12, 2017	Dec. 11, 2017	Radiation (OS03-LK)
Test Receiver	R&S	ESR3	102052	9 kHz ~ 3.6 GHz	Apr. 05, 2017	May 12, 2017	Apr. 04, 2018	Radiation (OS03-LK)
Bilog Antenna with 5dB Attenuator	TESEQ & WOKEN	CBL6112D & 00800N1D01N -05	25236 & 007	30 MHz ~ 1 GHz	Jul. 30, 2016	May 12, 2017	Jul. 29, 2017	Radiation (OS03-LK)
Turn Table	EMCO	2080	9711-2021	0 ~ 360 degree	NCR	May 12, 2017	NCR	Radiation (OS03-LK)
Antenna Mast	EMCO	2075	9711-2115	1 m ~ 4 m	NCR	May 12, 2017	NCR	Radiation (OS03-LK)
EMI Test Receiver	Rohde & Schwarz	ESU26	100472	20Hz~26.5GHz	Dec. 29, 2016	May 28, 2017	Dec. 28, 2017	Radiation (03CH06-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1156	1GHz~18GHz	Aug. 05, 2016	May 28, 2017	Aug. 04, 2017	Radiation (03CH06-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1850117	1GHz ~ 18GHz	May 22, 2017	May 28, 2017	May 21, 2018	Radiation (03CH06-HY)
Antenna Mast	MF	MF-7802	MF780208212	1m~4m	N/A	May 28, 2017	N/A	Radiation (03CH06-HY)
Turn Table	INN-CO	DS2000	420/650/00	0-360 degree	N/A	May 28, 2017	N/A	Radiation (03CH06-HY)

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## 5. Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence	2.7
of 95% (U = 2Uc(y))	2.1

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

Measuring Uncertainty for a Level of Confidence	4.4
of 95% (U = 2Uc(y))	4.1

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

Measuring Uncertainty for a Level of Confidence	4.7
of 95% (U = 2Uc(y))	<b>4.</b> 7

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