



RF Exposure evaluation

Report Reference No.....: GTSR16020030-03

FCC ID.....: 2ALGI-CC-001

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Date of issue.....: Apr. 05, 2017

Representative Laboratory Name .: Shenzhen Global Test Service Co.,Ltd.

Address: 1F, Building No. 13A, Zhonghaixin Science and Technology City, No.12,6 Road, Ganli Industrial Park, Buji Street, Longgang District, Shenzhen, Guangdong

Applicant's name.....: Nanjing Mythware Information Technology Co.,Ltd.

Address: Level 13, Unit 3,Zijin Entrepreneur R&D Centre, No.89 Shengli Road, Jiangning District, Nanjing, China

Test specification

Standard: **47CFR §1.1310**
47CFR §2.1091
KDB447498 v06

TRF Originator.....: Shenzhen Global Test Service Co.,Ltd.

Master TRF.....: Dated 2014-12

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Test item description Mythware Classroom Cloud AP

Trade Mark: Mythware

Manufacturer: **Nanjing Yansheng Electronics Co.,Ltd.**

Model/Type reference.....: CC-001

Listed Models: CCE-6010X,CCU-6010X,CCHE-6010X,CCHU-6010X,CCW-6010X

Exposure category.....: General population/uncontrolled environment

EUT Type: Production Unit

Hardware Version: AP_MB_REV_C1

Software Version: V1.0

Rating: Input: AC 100-240V~50/60Hz 1.5A

Result.....: **PASS**

TEST REPORT

Test Report No. :	GTSR17020073-03	Apr. 05, 2017
		Date of issue

Equipment under Test : Mythware Classroom Cloud AP

Model /Type : CC-001

Listed Models : CCE-6010X,CCU-6010X,CCHE-6010X,CCHU-6010X,CCW-6010X

Applicant : **Nanjing Mythware Information Technology Co.,Ltd.**

Address : Level 13, Unit 3,Zijin Entrepreneur R&D Centre, No.89 Shengli Road, Jiangning District, Nanjing, China

Manufacturer : **Nanjing Yansheng Electronics Co.,Ltd.**

Address : No.9 Gaohu Road, Jiangning District, Nanjing, China.

Test Result:	PASS
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The test report merely corresponds to the test sample.
 It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. SUMMARY

1.1. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

● - supplied by the manufacturer

○ - supplied by the lab

○ Power Cable	Length (m) :	/
	Shield :	/
	Detachable :	/

1.2. Product Description

Name of EUT	Mythware Classroom Cloud AP
Trade Mark:	Mythware
Model Number	CC-001
Listed Models	CCE-6010X,CCU-6010X,CCHE-6010X,CCHU-6010X,CCW-6010X
FCC ID	2ALGI-CC001
Power Supply	DC 12V PoE Port Power Supply(802.3at Standard)
Adapter information:	Model: SK05T-1200300U Input: AC 100-240V~50/60Hz 1.5A Output:DC 12V/3A
WLAN	Supported 802.11ac/802.11b/802.11g/802.11n HT20/802.11n HT40
Modulation Type	IEEE 802.11ac: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK,BPSK)
Operation frequency	IEEE 802.11ac:5180MHz-5240MHz/5745MHz-5825MHz IEEE 802.11b:2412-2462MHz IEEE 802.11g:2412-2462MHz IEEE 802.11n HT20:2412-2462MHz/5180MHz-5240MHz/5745MHz-5825MHz IEEE 802.11n HT40:2422-2452MHz
Antenna Type	Internal Antenna
Antenna gain	1.06dBi
Remark: The products are identical in interior structure, electrical circuits and components, just model names and antenna numbers are different.	

2. TEST ENVIRONMENT

2.1. Address of the test laboratory

Shenzhen Global Test Service Co.,Ltd.

1F, Building No. 13A, Zhonghaixin Science and Technology City, No.12,6 Road, Ganli Industrial Park, Buji Street, Longgang District, Shenzhen, Guangdong

2.2. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 964637

Shenzhen Global Test Service Co.,Ltd EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 964637, Jul 24, 2015.

CNAS-Lab Code: L8169

Shenzhen Global Test Service Co.,Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories. Date of Registration: Dec. 11, 2015. Valid time is until Dec. 10, 2018.

2.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15-35 ° C
Humidity:	30-60 %
Atmospheric pressure:	950-1050mbar

2.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen Global Test Service Co.,Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen GTS laboratory is reported:

Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.57 dB	(1)

- (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3. Method of measurement

3.1. Applicable Standard

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to §1.1310 and §2.1091 RF exposure is calculated.

KDB447498 v06: Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies

3.2. Requirement

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

In accordance with KDB447498D01 for Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modeled or measured field strengths or power density, is ≤ 1.0 . The MPE ratio of each antenna is determined at the minimum test separation distance required by the operating configurations and exposure conditions of the host device, according to the ratio of field strengths or power density to MPE limit, at the test frequency. Either the maximum peak or spatially averaged results from measurements or numerical simulations may be used to determine the MPE ratios. Spatial averaging does not apply when MPE is estimated using simple calculations based on far-field plane-wave equivalent conditions. The antenna installation and operating requirements for the host device must meet the minimum test separation distances required by all antennas, in both standalone and simultaneous transmission operations, to satisfy compliance.

3.3. Limit

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100) *	6
3.0 – 30	1842/f	4.89/f	(900/f ²)*	6
30 – 300	61.4	0.163	1.0	6
300 – 1500	/	/	f/300	6
1500 – 100,000	/	/	5	6

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100) *	30
3.0 – 30	824/f	2.19/f	(180/f ²)*	30
30 – 300	27.5	0.073	0.2	30
300 – 1500	/	/	f/1500	30
1500 – 100,000	/	/	1.0	30

F=frequency in MHz

*=Plane-wave equivalent power density

3.4. Conducted Power Results

2.4G WLAN

Antenna 1

Mode	Channel	Frequency (MHz)	Worst case Data rate	Conducted Output Power (dBm)	
				PK	Average
802.11b	01	2412	1Mbps	12.78	9.55
	06	2437	1Mbps	13.80	10.32
	11	2462	1Mbps	13.39	10.71
802.11g	01	2412	6Mbps	13.90	9.25
	06	2437	6Mbps	14.04	10.44
	11	2462	6Mbps	13.49	9.97
802.11n HT20	01	2412	6.5 Mbps	13.38	9.82
	06	2437	6.5 Mbps	13.22	9.68
	11	2462	6.5 Mbps	13.69	9.06
802.11n HT40	03	2422	6.5 Mbps	8.41	3.74
	06	2437	6.5 Mbps	8.55	3.99
	09	2452	6.5 Mbps	8.74	3.83

Antenna 2

Mode	Channel	Frequency (MHz)	Worst case Data rate	Conducted Output Power (dBm)	
				PK	Average
802.11b	01	2412	1Mbps	14.00	11.14
	06	2437	1Mbps	14.37	11.35
	11	2462	1Mbps	14.80	11.01
802.11g	01	2412	6Mbps	14.06	10.51
	06	2437	6Mbps	14.28	10.64
	11	2462	6Mbps	14.68	10.71
802.11n HT20	01	2412	6.5 Mbps	14.03	10.43
	06	2437	6.5 Mbps	14.32	10.78
	11	2462	6.5 Mbps	14.51	10.92
802.11n HT40	03	2422	6.5 Mbps	9.98	5.14
	06	2437	6.5 Mbps	10.14	5.69
	09	2452	6.5 Mbps	9.93	5.21

Antenna 3

Mode	Channel	Frequency (MHz)	Worst case Data rate	Conducted Output Power (dBm)	
				PK	Average
802.11b	01	2412	1Mbps	13.98	10.17
	06	2437	1Mbps	13.65	10.89
	11	2462	1Mbps	13.74	10.31
802.11g	01	2412	6Mbps	13.99	9.11
	06	2437	6Mbps	13.85	9.31
	11	2462	6Mbps	13.67	9.28
802.11n HT20	01	2412	6.5 Mbps	13.75	9.17
	06	2437	6.5 Mbps	13.81	9.22
	11	2462	6.5 Mbps	13.49	9.75
802.11n HT40	03	2422	6.5 Mbps	8.91	4.04
	06	2437	6.5 Mbps	8.74	3.92
	09	2452	6.5 Mbps	8.68	3.86

Antenna 4

Mode	Channel	Frequency (MHz)	Worst case Data rate	Conducted Output Power (dBm)	
				PK	Average
802.11b	01	2412	1Mbps	14.28	11.87
	06	2437	1Mbps	14.28	11.77
	11	2462	1Mbps	14.61	11.69
802.11g	01	2412	6Mbps	15.62	11.92
	06	2437	6Mbps	15.41	11.65
	11	2462	6Mbps	15.39	11.47
802.11n HT20	01	2412	6.5 Mbps	14.32	10.65
	06	2437	6.5 Mbps	14.28	10.81
	11	2462	6.5 Mbps	14.64	10.88
802.11n HT40	03	2422	6.5 Mbps	9.87	5.14
	06	2437	6.5 Mbps	9.68	5.05
	09	2452	6.5 Mbps	9.53	4.82

5GWLAN**Antenna 1**

Mode	Channel	Frequency (MHz)	Worst case Data rate	Conducted Output Power (dBm)	
				PK	Average
802.11ac	36	5180	6 Mbps	14.49	11.693
	40	5200	6 Mbps	14.62	11.409
	48	5240	6 Mbps	13.54	10.825
	149	5745	6 Mbps	7.41	4.952
	157	5785	6 Mbps	6.79	3.795
	165	5825	6 Mbps	6.13	4.322
802.11n HT20	36	5180	6.5Mbps	14.57	11.789
	40	5200	6.5Mbps	14.58	11.738
	48	5240	6.5Mbps	13.42	10.797
	149	5745	6.5Mbps	8.31	6.131
	157	5785	6.5Mbps	7.20	5.362
	165	5825	6.5Mbps	7.70	5.022

Antenna 2

Mode	Channel	Frequency (MHz)	Worst case Data rate	Conducted Output Power (dBm)	
				PK	Average
802.11ac	36	5180	6 Mbps	15.39	12.308
	40	5200	6 Mbps	15.24	12.628
	48	5240	6 Mbps	15.14	12.877
	149	5745	6 Mbps	7.75	5.427
	157	5785	6 Mbps	7.81	5.579
	165	5825	6 Mbps	7.55	5.087
802.11n HT20	36	5180	6.5Mbps	15.20	12.720
	40	5200	6.5Mbps	15.20	12.631
	48	5240	6.5Mbps	14.16	11.919
	149	5745	6.5Mbps	7.48	5.021
	157	5785	6.5Mbps	8.03	5.561
	165	5825	6.5Mbps	7.47	4.958

Antenna 3

Mode	Channel	Frequency (MHz)	Worst case Data rate	Conducted Output Power (dBm)	
				PK	Average
802.11ac	36	5180	6 Mbps	15.21	12.243
	40	5200	6 Mbps	15.99	12.842
	48	5240	6 Mbps	14.45	11.532
	149	5745	6 Mbps	7.94	4.887
	157	5785	6 Mbps	8.05	5.623
	165	5825	6 Mbps	7.86	4.783
802.11n HT20	36	5180	6.5Mbps	15.08	12.969
	40	5200	6.5Mbps	15.52	12.552
	48	5240	6.5Mbps	14.32	11.789
	149	5745	6.5Mbps	7.25	4.795
	157	5785	6.5Mbps	7.83	5.018
	165	5825	6.5Mbps	7.17	5.347

Antenna 4

Mode	Channel	Frequency (MHz)	Worst case Data rate	Conducted Output Power (dBm)	
				PK	Average
802.11ac	36	5180	6 Mbps	14.42	11.615
	40	5200	6 Mbps	14.69	11.203
	48	5240	6 Mbps	15.74	12.843
	149	5745	6 Mbps	7.05	5.233
	157	5785	6 Mbps	6.89	4.122
	165	5825	6 Mbps	6.72	4.609
802.11n HT20	36	5180	6.5Mbps	14.99	11.159
	40	5200	6.5Mbps	14.86	12.007
	48	5240	6.5Mbps	14.03	11.547
	149	5745	6.5Mbps	6.95	4.253
	157	5785	6.5Mbps	7.11	5.372
	165	5825	6.5Mbps	6.84	4.066

Manufacturing tolerance**Antenna 1**

IEEE 802.11b (Average)			
Frequency	2412	2437	2462
Target (dBm)	10.0	10.0	10.0
Tolerance \pm (dB)	1.0	1.0	1.0
IEEE 802.11g (Average)			
Frequency	2412	2437	2462
Target (dBm)	10.0	10.0	10.0
Tolerance \pm (dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Frequency	2412	2437	2462
Target (dBm)	9.0	9.0	9.0
Tolerance \pm (dB)	1.0	1.0	1.0
IEEE 802.11n HT40 (Average)			
Frequency	2422	2437	2452
Target (dBm)	3.0	3.0	3.0
Tolerance \pm (dB)	1.0	1.0	1.0
IEEE802.11ac(Average)			
Frequency	5180	5200	5240
Target (dBm)	11.0	11.0	11.0
Tolerance \pm (dB)	1.0	1.0	1.0
IEEE802.11ac(Average)			
Frequency	5745	5785	5825

Target (dBm)	4.0	4.0	4.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE802.11 n HT20 (Average)			
Frequency	5180	5200	5240
Target (dBm)	11.0	11.0	11.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE802.11 n HT20 (Average)			
Frequency	5745	5785	5825
Target (dBm)	6.0	6.0	6.0
Tolerance ±(dB)	1.0	1.0	1.0

Antenna 2

IEEE 802.11b (Average)			
Frequency	2412	2437	2462
Target (dBm)	11.0	11.0	11.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11g (Average)			
Frequency	2412	2437	2462
Target (dBm)	10.0	10.0	10.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Frequency	2412	2437	2462
Target (dBm)	10.0	10.0	10.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n HT40 (Average)			
Frequency	2422	2437	2452
Target (dBm)	5.0	5.0	5.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE802.11ac(Average)			
Frequency	5180	5200	5240
Target (dBm)	12.0	12.0	12.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE802.11ac(Average)			
Frequency	5745	5785	5825
Target (dBm)	5.0	5.0	5.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE802.11 n HT20 (Average)			
Frequency	5180	5200	5240
Target (dBm)	12.0	12.0	12.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE802.11 n HT20 (Average)			
Frequency	5745	5785	5825
Target (dBm)	5.0	5.0	5.0
Tolerance ±(dB)	1.0	1.0	1.0

Antenna 3

IEEE 802.11b (Average)			
Frequency	2412	2437	2462
Target (dBm)	10.0	10.0	10.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11g (Average)			
Frequency	2412	2437	2462
Target (dBm)	9.0	9.0	9.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Frequency	2412	2437	2462
Target (dBm)	9.0	9.0	9.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n HT40 (Average)			

Frequency	2422	2437	2452
Target (dBm)	4.0	4.0	4.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE802.11ac(Average)			
Frequency	5180	5200	5240
Target (dBm)	12.0	12.0	12.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE802.11ac(Average)			
Frequency	5745	5785	5825
Target (dBm)	5.0	5.0	5.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE802.11 n HT20 (Average)			
Frequency	5180	5200	5240
Target (dBm)	12.0	12.0	12.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE802.11 n HT20 (Average)			
Frequency	5745	5785	5825
Target (dBm)	5.0	5.0	5.0
Tolerance ±(dB)	1.0	1.0	1.0

Antenna 4

IEEE 802.11b (Average)			
Frequency	2412	2437	2462
Target (dBm)	11.0	11.0	11.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11g (Average)			
Frequency	2412	2437	2462
Target (dBm)	11.0	11.0	11.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Frequency	2412	2437	2462
Target (dBm)	10.0	10.0	10.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n HT40 (Average)			
Frequency	2422	2437	2452
Target (dBm)	5.0	5.0	5.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE802.11ac(Average)			
Frequency	5180	5200	5240
Target (dBm)	12.0	12.0	12.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE802.11ac(Average)			
Frequency	5745	5785	5825
Target (dBm)	5.0	5.0	5.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE802.11 n HT20 (Average)			
Frequency	5180	5200	5240
Target (dBm)	12.0	12.0	12.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE802.11 n HT20 (Average)			
Frequency	5745	5785	5825
Target (dBm)	5.0	5.0	5.0
Tolerance ±(dB)	1.0	1.0	1.0

MIMO*4

IEEE 802.11n HT20 (Average)			
Frequency	2412	2437	2462
Target (dBm)	15.55	15.55	15.55
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n HT40 (Average)			
Frequency	2422	2437	2452
Target (dBm)	10.35	10.35	10.35
Tolerance ±(dB)	1.0	1.0	1.0
IEEE802.11ac(Average)			
Frequency	5180	5200	5240
Target (dBm)	17.79	17.79	17.79
Tolerance ±(dB)	1.0	1.0	1.0
IEEE802.11ac(Average)			
Frequency	5745	5785	5825
Target (dBm)	10.79	10.79	10.79
Tolerance ±(dB)	1.0	1.0	1.0
IEEE802.11 n HT20 (Average)			
Frequency	5180	5200	5240
Target (dBm)	17.79	17.79	17.79
Tolerance ±(dB)	1.0	1.0	1.0
IEEE802.11 n HT20 (Average)			
Frequency	5745	5785	5825
Target (dBm)	11.29	11.29	11.29
Tolerance ±(dB)	1.0	1.0	1.0

3.5. MPE Calculation Method

Predication of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{PG}{4\pi R^2}$$

Where: S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna

As declared by the Applicant, the EUT transmits with the maximum source-based Duty Cycle of 100%-see the User manual, and the EUT is a wireless device used in a mobile application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum mobile separation distance, $r = 20\text{cm}$, as well as the gain of the used antenna is 1.06dBi for WLAN, and the power drift from Turn-up Procedure provide by manufacturer as following states, the RF power density can be obtained..

4. Evaluation Result

4.1. Standalone MPE

	Minimum Separation Distance (cm)	Output Power (Turn-up Procedure)		Antenna Gain (Numeric)	Power Density At 20 cm (mW/cm^2)	Power Density Limit (mW/cm^2)	Test Results
		dBm	mW				
2.4GWLAN	20.00	16.55	45.1856	1.2764	0.011	1.0000	PASS
5GWLAN	20.00	18.79	75.6833	1.2764	0.019	1.0000	PASS

4.2. Simultaneous transmission MPE Considerations

According to KDB447498 :For mobile exposure host platform to qualify for simultaneous transmission MPE test exclusion, all transmitters and antennas in the host must be either evaluated for MPE compliance, by measurement or computational modeling, or qualify for the standalone MPE test exclusion in section 7.1. Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modeled or measured field strengths or power density, is ≤ 1.0 .

This means that:

Σ of MPE ratios ≤ 1.0

The EUT is Not Applicable.

5. Conclusion

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

.....**End of Report**.....