

FCC Report

Application Purpose : Original grant

Applicant Name: : SHENZHEN DXZC TECHNOLOGIES CO., Ltd.

FCC ID : 2ALWI-UC2000VE

Equipment Type : VOIP Gateway

Model Name : UC2000-VE

Report Number : FCC17040268A-1

Standard(S) : FCC Part 15 Subpart B

Date Of Receipt : April 14, 2017

Date Of Issue : April 25, 2017

Test By : 
(Dekun Liu)

Reviewed By : 
(Sol Qin)

Authorized by : 
(Michal Ling)

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Registration Number: 588523

REPORT REVISE RECORD				
Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	April 25, 2017	Valid	Original Report

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1. GENERAL INFORMATION

Test Model	UC2000-VE
Applicant	SHENZHEN DXZC TECHNOLOGIES CO., Ltd.
Address	8 floor,science and technology building,yongqi C area,yintian industrial district,xixiang street,baoan district,shenzhen city
Manufacturer	SHENZHEN DXZC TECHNOLOGIES CO., Ltd.
Address	8 floor,science and technology building,yongqi C area,yintian industrial district,xixiang street,baoan district,shenzhen city
Equipment Type	VOIP Gateway
Brand Name	N/A
Hardware	PCB 2
Software	02231220 2016-12-16 17:36:05 , 02231220
Battery information:	N/A
Adapter Information:	Adapter:FJ-SW1204000 Input: AC 100~240V 50/60Hz 1.5A Output: DC 12V-4000mA
Data of receipt	April 14, 2017
Date of test	April 14, 2017 to April 23 , 2017
Deviation	None
Condition of Test Sample	Normal

We hereby certify that:

The above equipment was tested by QTC Certification & Testing Co., Ltd.

2nd Floor,B1 Building,Fengyeyuan Industrial Plant,, Liuxian 2st. Road, Xin'an Street, Bao'an District,,Shenzhen,518000

Registration Number: 588523

The data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C 63.4:2014. The sample tested as described in this report is in compliance with the FCC Rules Part15 Subpart B.

The test results of this report relate only to the tested sample identified in this report.

2. TEST DESCRIPTION

2.1 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 3.2\text{dB}$
2	RF power, conducted	$\pm 0.16\text{dB}$
3	Spurious emissions, conducted	$\pm 0.21\text{dB}$
4	All emissions, radiated(<1G)	$\pm 4.7\text{dB}$
5	All emissions, radiated(>1G)	$\pm 4.7\text{dB}$
6	Temperature	$\pm 0.5^\circ\text{C}$
7	Humidity	$\pm 2\%$

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

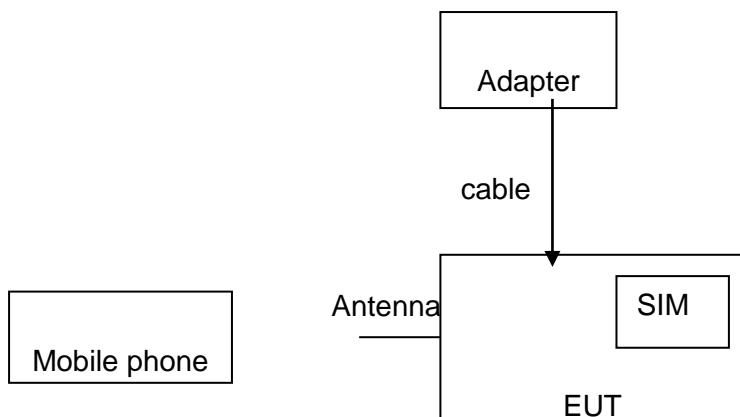
Pretest Mode	Description
Mode 1	Exchange data with mobile phone
Mode 2	Exchange data with compute

For Conducted Emission	
Final Test Mode	Test with Keyboard and Mouse
Mode 1	Exchange data with mobile phone
Mode 2	Exchange data with compute

For Radiated Emission	
Final Test Mode	Test with Keyboard and Mouse
Mode 1	Exchange data with mobile phone
Mode 2	Exchange data with compute

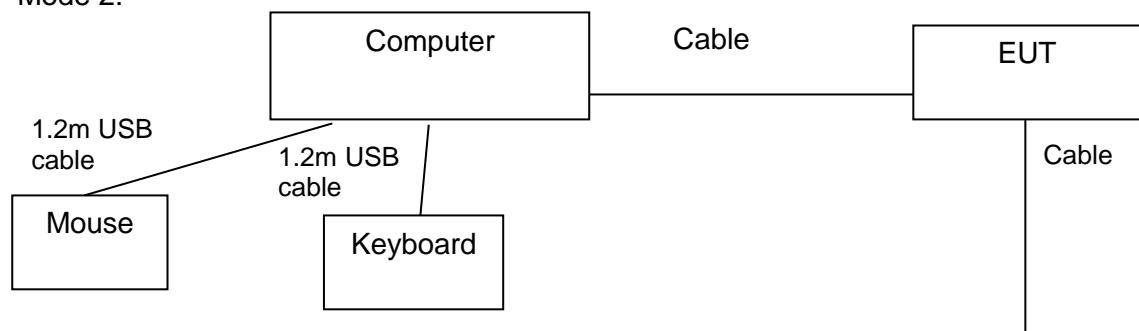
2.3 CONFIGURATION OF SYSTEM UNDER TEST

Mode 1:



(EUT: VOIP Gateway)

Mode 2:



(EUT: VOIP Gateway)

I/O Port of EUT			
I/O Port Type	Q'TY	Cable	Tested with
Power	1	1m cable,	1

2.4 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
1	Adapter	/	FJ-SW120400	/	/
2	Keyboard	HP	SK-2880	435302-AA-	/
3	Mouse	DELL	MS111-1	/	/
4	Mobile phone	HUAWEI	H60-L01,		

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

3. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 , Subpart B			
Standard Section	Test Item	Judgment	Remark
15.107	CONDUCTED EMISSION	PASS	
15.109	RADIATED EMISSION	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this test report.

4. MEASUREMENT INSTRUMENTS

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibrated	Calibrated until
ESCI Test Receiver	R&S	ESCI	100005	08/19/2016	08/18/2017
LISN	AFJ	LS16	16010222119	08/19/2016	08/18/2017
LISN(EUT)	Mestec	AN3016	04/10040	08/19/2016	08/18/2017
pre-amplifier	CDSI	PAP-1G18-38	--	08/19/2016	08/18/2017
System Controller	CT	SC100	-	08/19/2016	08/18/2017
Bi-log Antenna	Chase	CBL6111C	2576	08/19/2016	08/18/2017
Spectrum analyzer	R&S	FSU26	200409	08/19/2016	08/18/2017
Horn Antenna	SCHWARZBECK	9120D	1141	08/19/2016	08/18/2017
Bi-log Antenna	SCHWARZBECK	VULB9163	9163/340	08/19/2016	08/18/2017
Pre Amplifier	H.P.	HP8447E	2945A02715	10/13/2016	10/12/2017
9*6*6 Anechoic	--	--	--	08/21/2016	08/20/2017

5. EMC EMISSION TEST

5.1 CONDUCTED EMISSION MEASUREMENT

5.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
	Quasi-peak	Average	Quasi-peak	Average	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

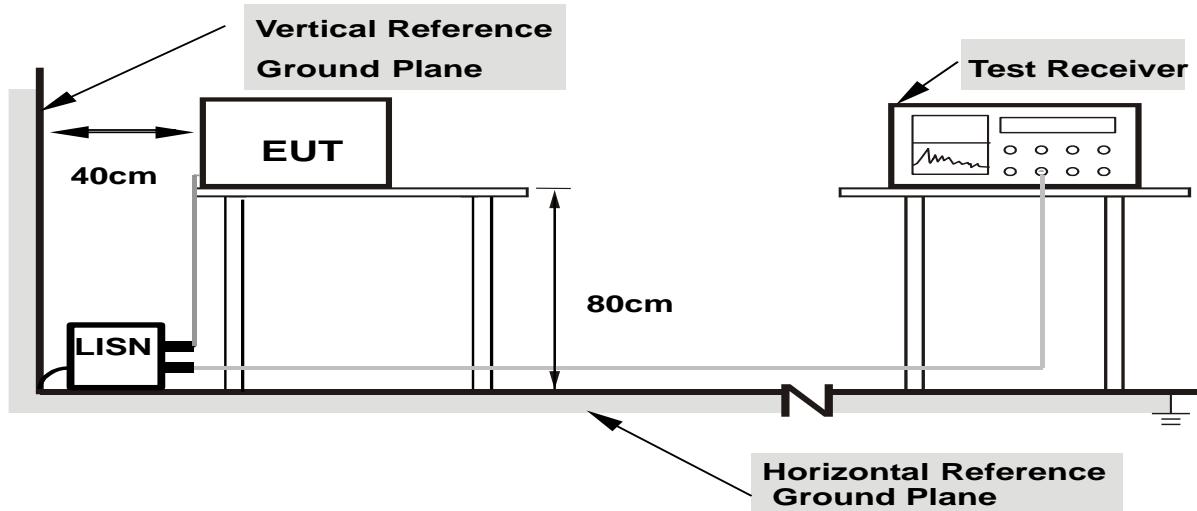
5.1.2 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

5.1.3 DEVIATION FROM TEST STANDARD

No deviation

5.1.4 TEST SETUP



Note:

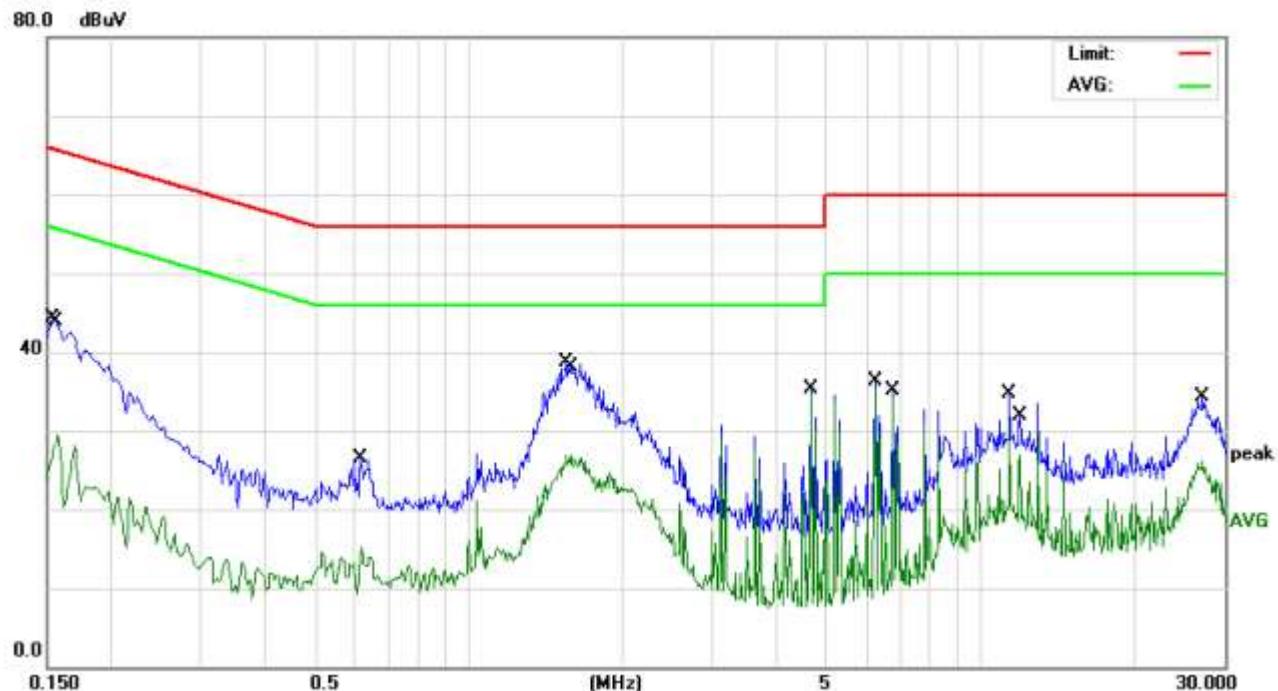
1. Support units were connected to second LISN.
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

5.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

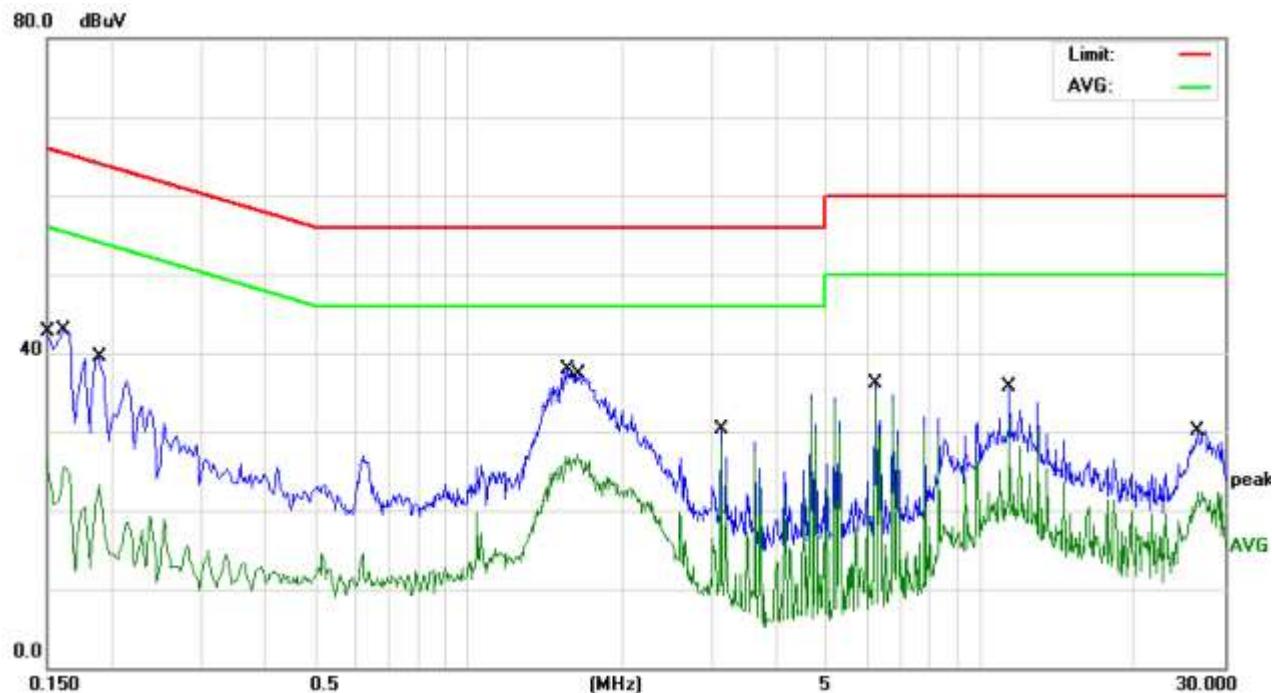
5.1.6 TEST RESULTS

EUT	VOIP Gateway	Model Name	UC2000-VE
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	L
Test Date	April 20, 2017	Test Mode	Mode 1



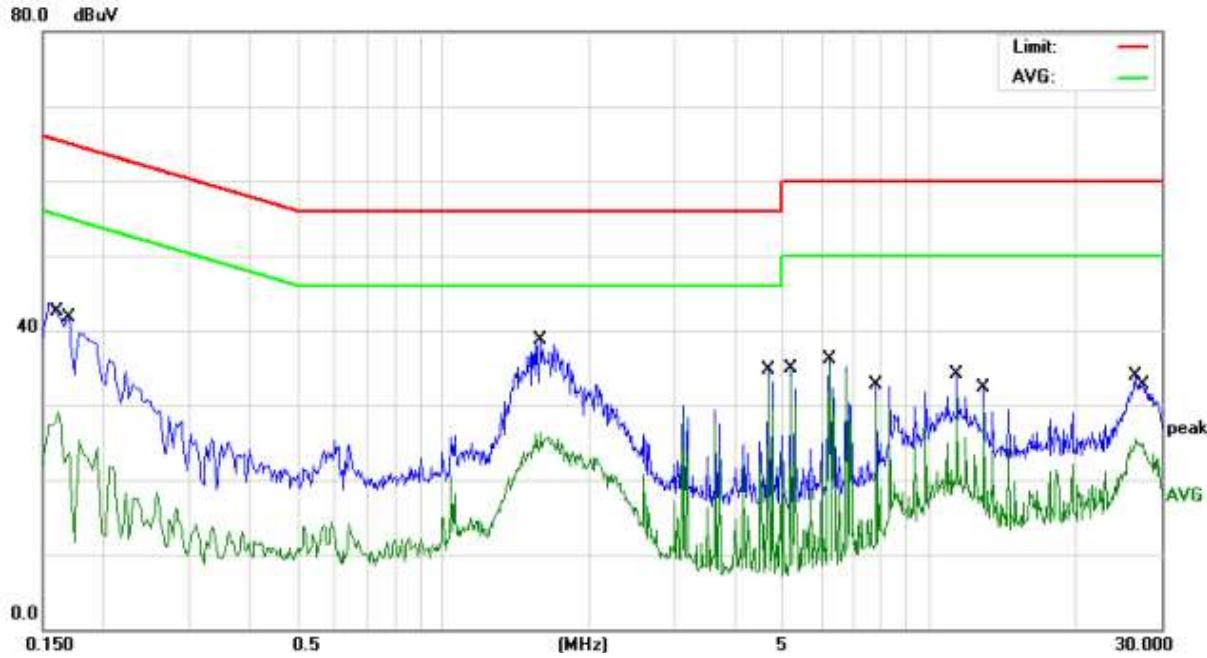
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Over Detector
1	0.1539	32.36	11.85	44.21	65.78	-21.57	QP
2	0.1580	17.67	11.79	29.46	55.56	-26.10	AVG
3	0.6140	15.82	10.78	26.60	56.00	-29.40	QP
4	0.6180	4.59	10.78	15.37	46.00	-30.63	AVG
5	1.5580	28.04	10.60	38.64	56.00	-17.36	QP
6	1.5859	16.30	10.60	26.90	46.00	-19.10	AVG
7 *	4.6698	23.87	10.54	34.41	46.00	-11.59	AVG
8	6.2259	25.77	10.55	36.32	60.00	-23.68	QP
9	6.7459	23.45	10.56	34.01	50.00	-15.99	AVG
10	11.4139	24.15	10.59	34.74	60.00	-25.26	QP
11	11.9339	16.29	10.58	26.87	50.00	-23.13	AVG
12	27.1580	23.75	10.62	34.37	60.00	-25.63	QP

EUT	VOIP Gateway	Model Name	UC2000-VE
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	N
Test Date	April 20, 2017	Test Mode	Mode 1



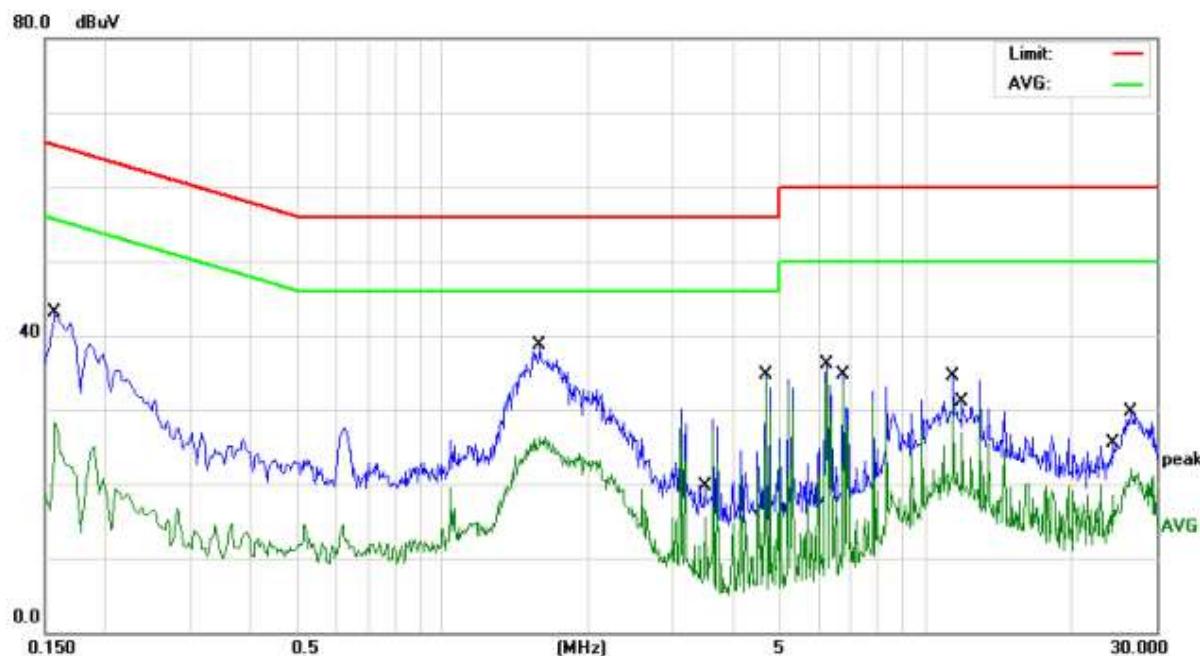
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV	dBuV	dB	
1		1.5620	27.34	10.60	37.94	56.00	-18.06	QP
2		0.1620	31.07	11.74	42.81	65.36	-22.55	QP
3		0.1900	28.13	11.34	39.47	64.03	-24.56	QP
4		6.2299	25.48	10.55	36.03	60.00	-23.97	QP
5		11.4219	25.06	10.59	35.65	60.00	-24.35	QP
6		26.6100	19.49	10.61	30.10	60.00	-29.90	QP
7		0.1499	14.55	11.90	26.45	56.00	-29.55	AVG
8		1.6340	16.54	10.60	27.14	46.00	-18.86	AVG
9		3.1140	17.86	10.57	28.43	46.00	-17.57	AVG
10	*	6.2299	24.61	10.55	35.16	50.00	-14.84	AVG
11		11.4219	21.20	10.59	31.79	50.00	-18.21	AVG
12		26.6100	11.76	10.61	22.37	50.00	-27.63	AVG

EUT	VOIP Gateway	Model Name	UC2000-VE
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	L
Test Date	April 20, 2017	Test Mode	Mode 2



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Over Detector
1		0.1700	30.08	11.62	41.70	64.96	-23.26	QP
2		1.5859	28.17	10.60	38.77	56.00	-17.23	QP
3		6.2219	25.58	10.55	36.13	60.00	-23.87	QP
4		11.4098	23.51	10.59	34.10	60.00	-25.90	QP
5		27.4860	22.11	10.62	32.73	60.00	-27.27	QP
6		4.6659	24.24	10.54	34.78	56.00	-21.22	QP
7		0.1620	17.30	11.74	29.04	55.36	-26.32	AVG
8		1.5859	15.60	10.60	26.20	46.00	-19.80	AVG
9	*	5.1859	23.20	10.53	33.73	50.00	-16.27	AVG
10		7.7779	20.14	10.58	30.72	50.00	-19.28	AVG
11		12.9659	19.18	10.60	29.78	50.00	-20.22	AVG
12		26.6100	14.97	10.61	25.58	50.00	-24.42	AVG

EUT	VOIP Gateway	Model Name	UC2000-VE
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	N
Test Date	April 20, 2017	Test Mode	Mode 2



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Over Detector
1		0.1582	31.00	11.79	42.79	65.55	-22.76	QP
2		1.5859	28.13	10.60	38.73	56.00	-17.27	QP
3		6.7419	24.19	10.56	34.75	60.00	-25.25	QP
4		11.9259	20.58	10.58	31.16	60.00	-28.84	QP
5		26.6100	19.11	10.61	29.72	60.00	-30.28	QP
6		4.6659	24.26	10.54	34.80	56.00	-21.20	QP
7		0.1580	16.55	11.79	28.34	55.56	-27.22	AVG
8		1.5859	15.67	10.60	26.27	46.00	-19.73	AVG
9		3.4980	4.98	10.56	15.54	46.00	-30.46	AVG
10	*	6.2219	24.83	10.55	35.38	50.00	-14.62	AVG
11		11.4059	20.59	10.59	31.18	50.00	-18.82	AVG
12		24.3700	7.94	10.59	18.53	50.00	-31.47	AVG

5.2 RADIATED EMISSION MEASUREMENT

5.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

The field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15B.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 1Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

5.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

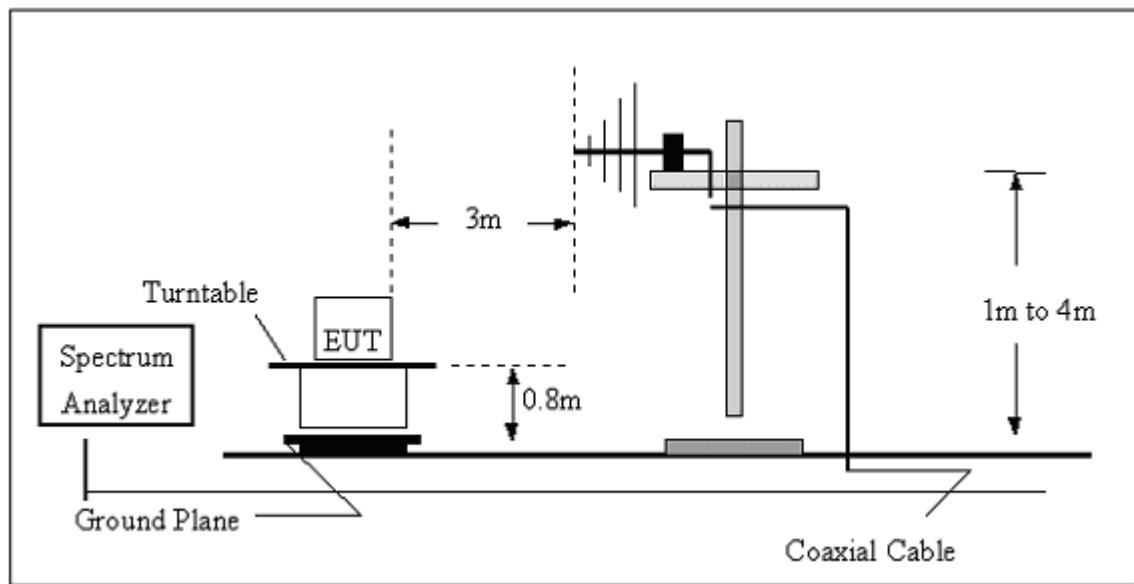
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

5.2.3 DEVIATION FROM TEST STANDARD

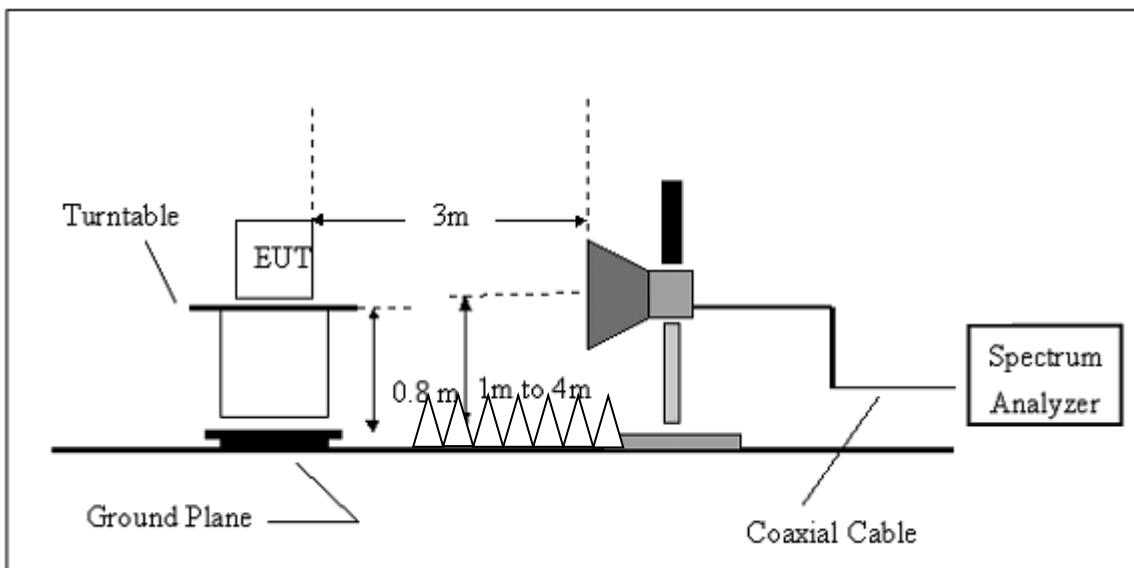
No deviation

5.2.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency 30MHz~1GHz



(B) Radiated Emission Test-Up Frequency Above 1GHz



5.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

5.2.5.1 TEST RESULTS (BETWEEN 30M – 1000 MHZ)

EUT	VOIP Gateway	Model Name	UC2000-VE
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Horizontal
Test Mode	Mode 1	Test Date	April 20, 2017



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Over Detector
1		87.1117	44.50	-7.97	36.53	40.00	-3.47	QP
2		122.8340	40.71	-2.22	38.49	43.50	-5.01	QP
3		146.3735	42.43	-3.51	38.92	43.50	-4.58	QP
4	*	374.6225	46.42	-3.47	42.95	46.00	-3.05	QP
5		550.9480	40.22	0.46	40.68	46.00	-5.32	QP
6		625.0780	38.17	1.31	39.48	46.00	-6.52	QP

EUT	VOIP Gateway	Model Name	UC2000-VE
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Vertical
Test Mode	Mode 1	Test Date	April 20, 2017



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		35.2511	36.27	-0.06	36.21	40.00	-3.79	QP
2		43.6584	42.38	-5.85	36.53	40.00	-3.47	QP
3		58.6126	45.65	-9.42	36.23	40.00	-3.77	QP
4	*	83.5221	44.78	-7.90	36.88	40.00	-3.12	QP
5		125.0066	42.02	-2.13	39.89	43.50	-3.61	QP
6		550.9479	41.76	0.46	42.22	46.00	-3.78	QP

EUT	VOIP Gateway	Model Name	UC2000-VE
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Horizontal
Test Mode	Mode 2	Test Date	April 20, 2017

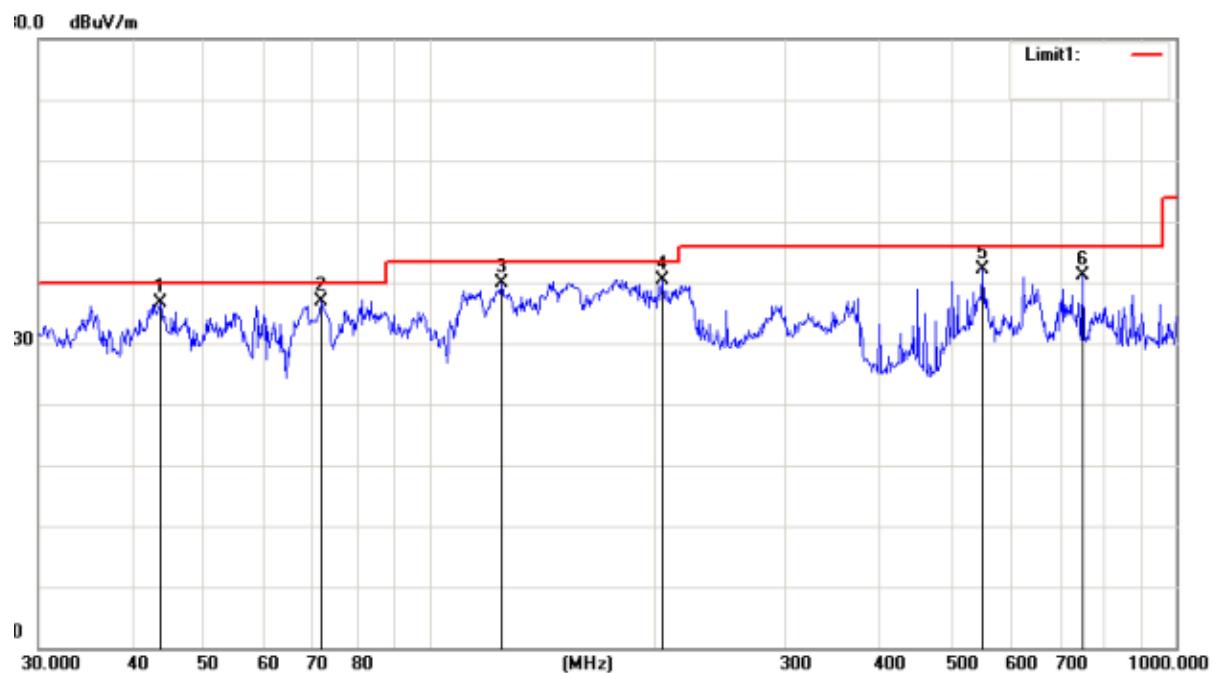


FIGURE 1

No.	Mk.	Freq. MHz	Reading	Correct	Measure-	Limit dBuV/m	Over dB	Over Detector
			Level dBuV	Factor dB	ment dBuV/m			
1		43.6584	42.38	-5.85	36.53	40.00	-3.47	QP
2	*	71.5806	44.51	-7.73	36.78	40.00	-3.22	QP
3		125.0066	42.02	-2.13	39.89	43.50	-3.61	QP
4		204.9550	45.26	-5.00	40.26	43.50	-3.24	QP
5		550.9479	41.76	0.46	42.22	46.00	-3.78	QP
6		750.1082	37.42	3.71	41.13	46.00	-4.87	QP

EUT	VOIP Gateway	Model Name	UC2000-VE
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Vertical
Test Mode	Mode 2	Test Date	April 20, 2017



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	A Detector
			Level	Factor	ment			
1		87.1115	44.50	-7.97	36.53	40.00	-3.47	QP
2		122.8340	40.71	-2.22	38.49	43.50	-5.01	QP
3		146.3735	42.43	-3.51	38.92	43.50	-4.58	QP
4	*	374.6225	46.42	-3.47	42.95	46.00	-3.05	QP
5		550.9479	40.22	0.46	40.68	46.00	-5.32	QP
6		642.8613	37.92	1.52	39.44	46.00	-6.56	QP

5.2.5.2 TEST RESULTS (1GHZ TO 6GHZ)

EUT	VOIP Gateway			Model Name	UC2000-VE	
Temperature	20 °C			Relative Humidity	48%	
Pressure	1010 hPa			Test Mode	Mode 1	
Test Date	April 20, 2017					

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		H/V	PK	AV	PK	AV	PK
1632.45	V	59.50	41.54	74	54	-14.50	-12.46
2829.27	V	59.65	39.52	74	54	-14.35	-14.48
1684.52	H	59.01	40.08	74	54	-14.99	-13.92
2831.6	H	58.13	39.13	74	54	-15.87	-14.87

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

EUT	VOIP Gateway			Model Name	UC2000-VE	
Temperature	20 °C			Relative Humidity	48%	
Pressure	1010 hPa			Test Mode	Mode 2	
Test Date	April 20, 2017					

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		H/V	PK	AV	PK	AV	PK
1583.35	V	60.33	40.21	74	54	-13.67	-13.79
2641.52	V	59.95	40.48	74	54	-14.05	-13.52
1628.42	H	58.61	39.43	74	54	-15.39	-14.57
2810.39	H	58.01	39.01	74	54	-15.99	-14.99

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

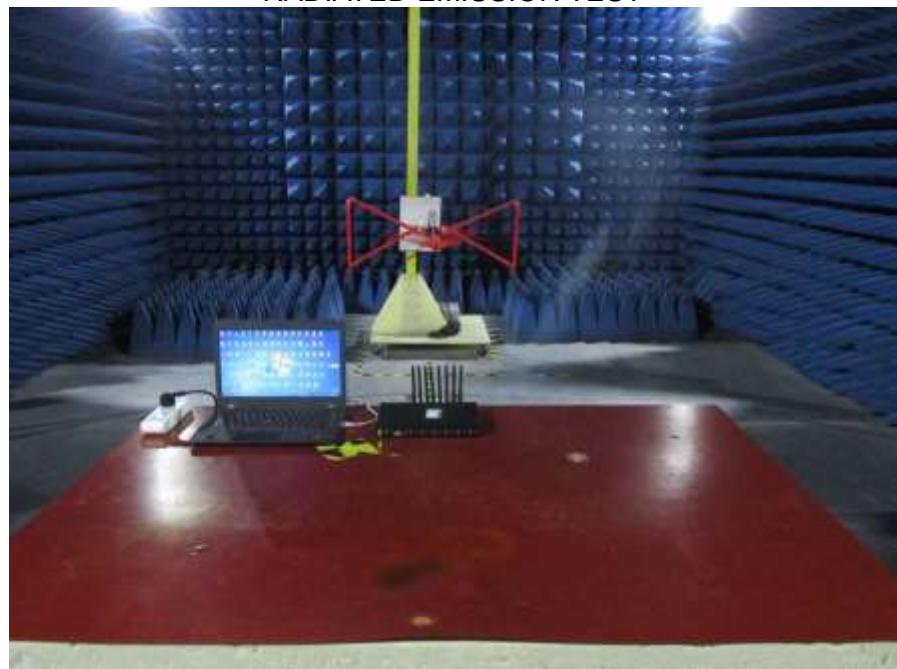
All the x/y/z orientation has been investigated, and only worst case is presented in this report.

6. EUT TEST PHOTO

CONDUCTED EMISSION TEST



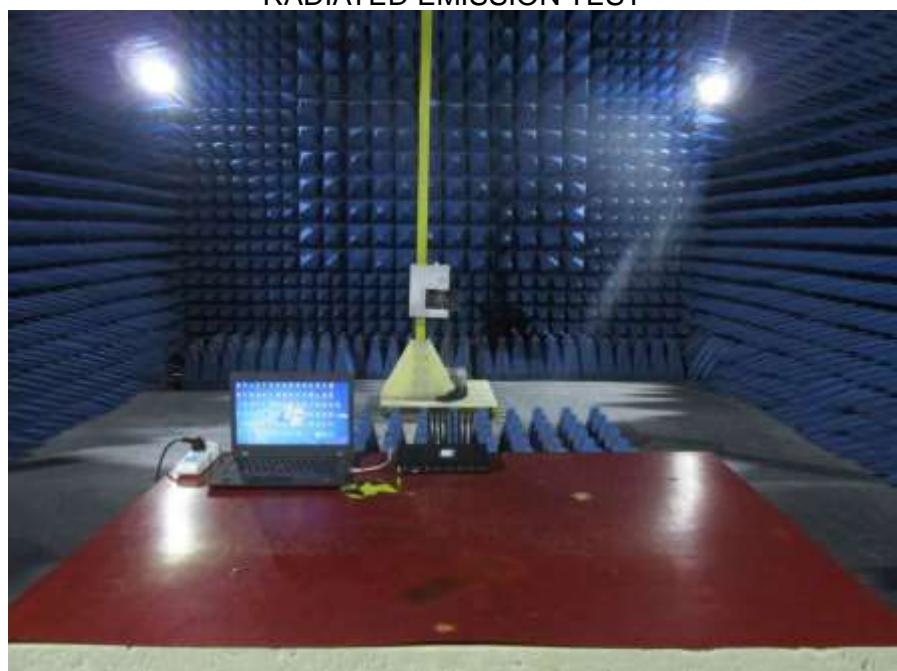
RADIATED EMISSION TEST



RADIATED EMISSION TEST



RADIATED EMISSION TEST



7. PHOTOGRAPHS OF EUT

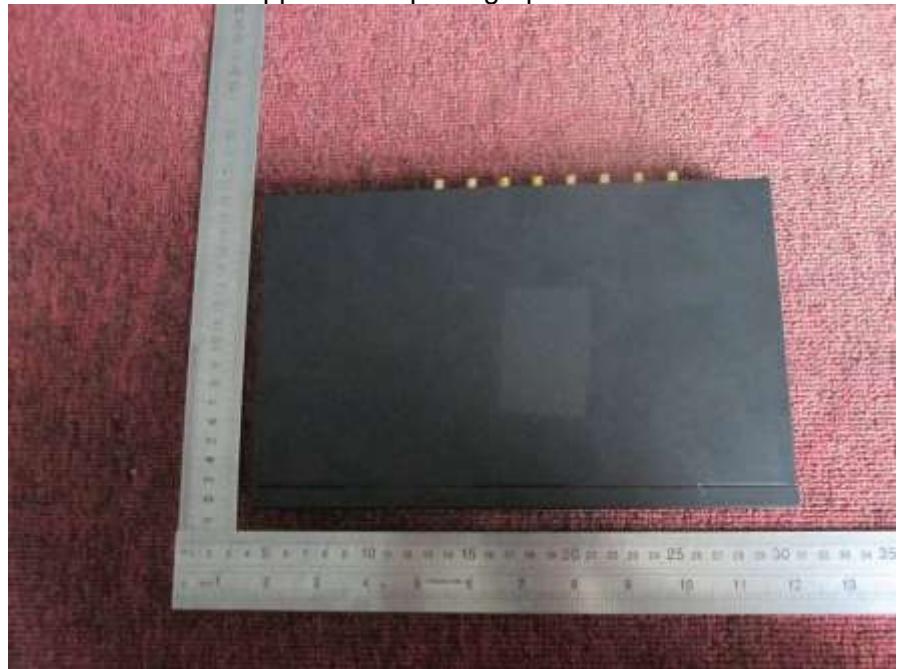
Appearance photograph of EUT



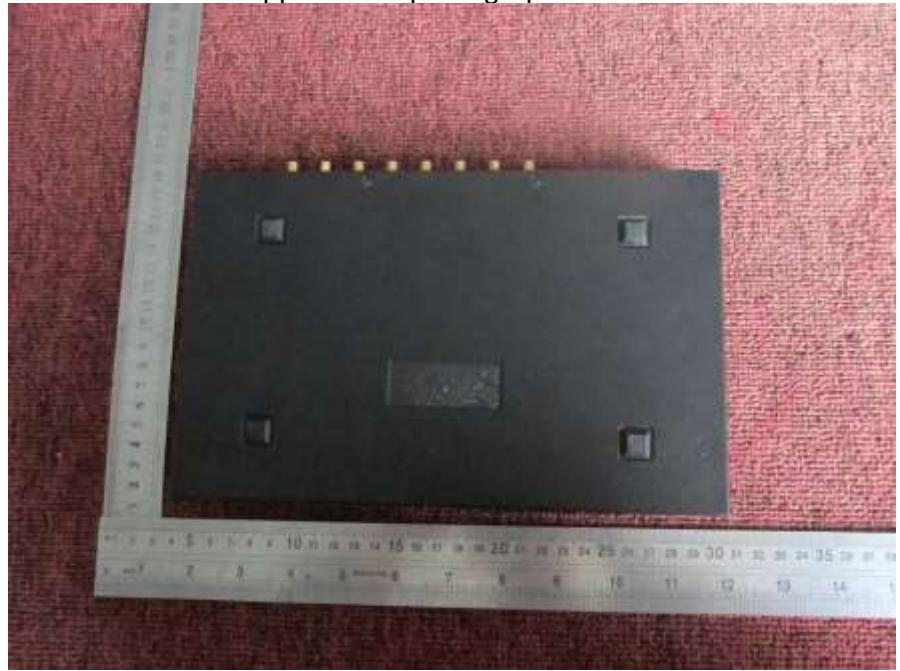
Appearance photograph of EUT



Appearance photograph of EUT



Appearance photograph of EUT



Appearance photograph of EUT



Appearance photograph of EUT



Appearance photograph of EUT



Appearance photograph of EUT



Appearance photograph of EUT



Internal photograph of EUT



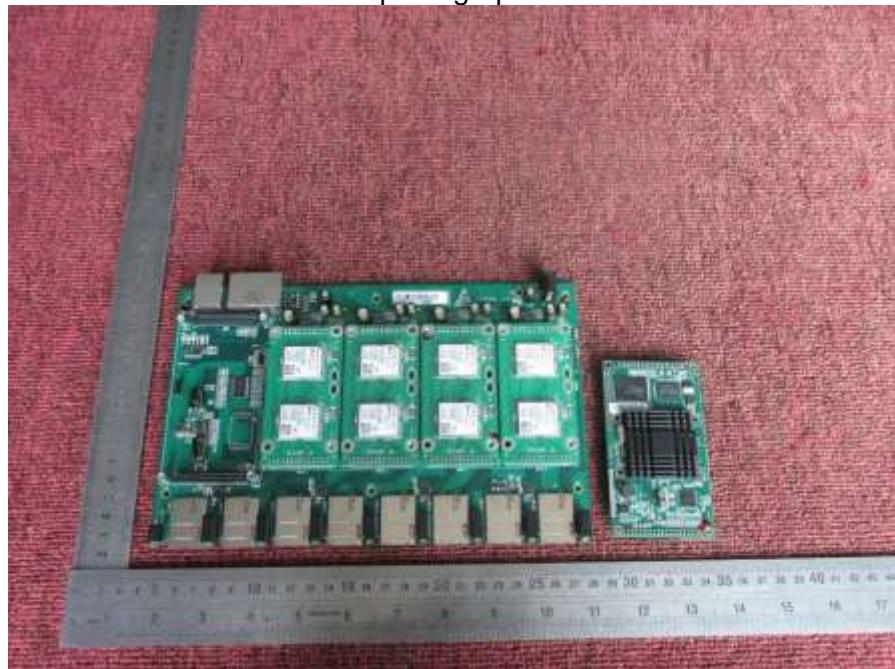
Internal photograph of EUT



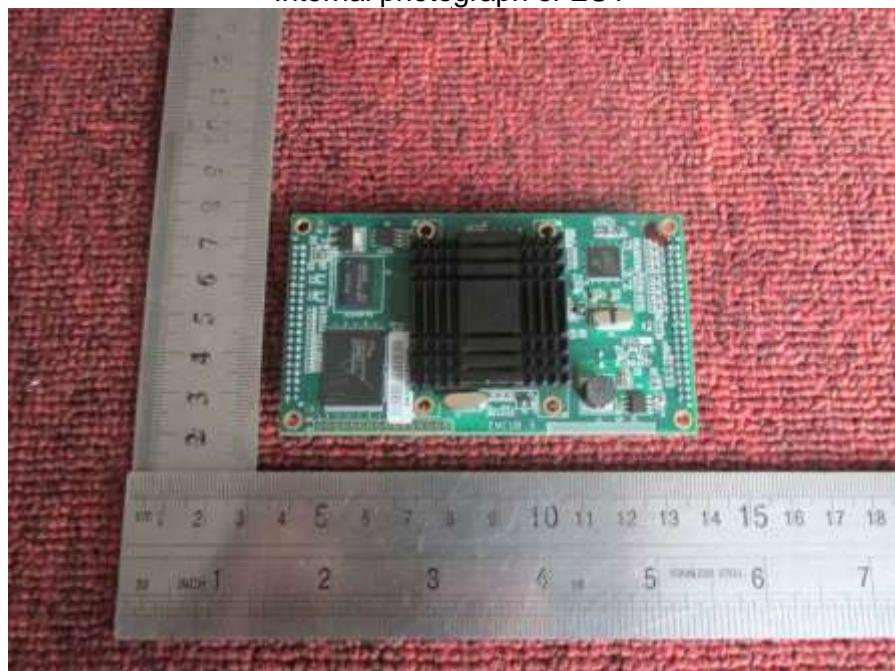
Internal photograph of EUT



Internal photograph of EUT



Internal photograph of EUT



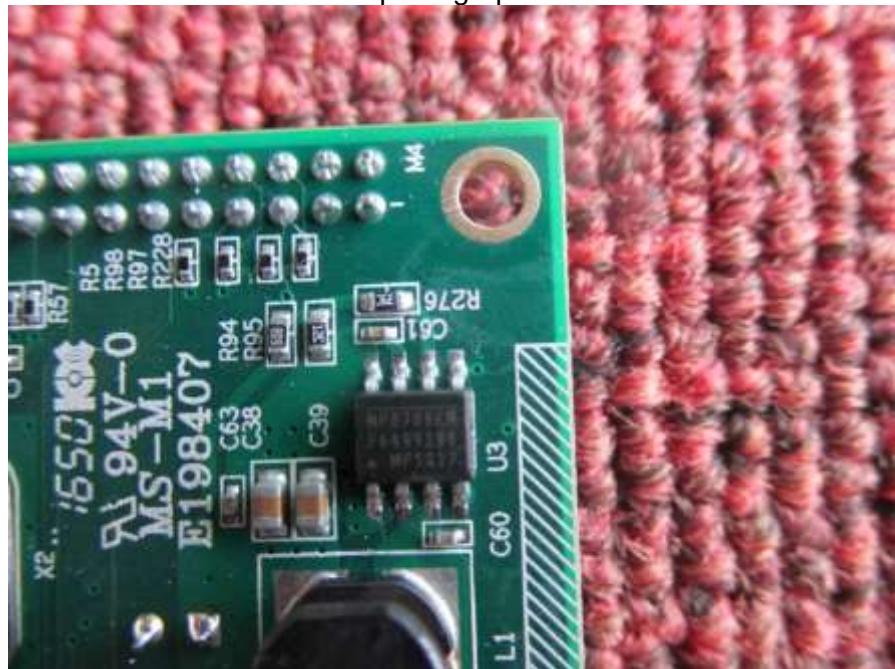
Internal photograph of EUT



Internal photograph of EUT



Internal photograph of EUT



Internal photograph of EUT



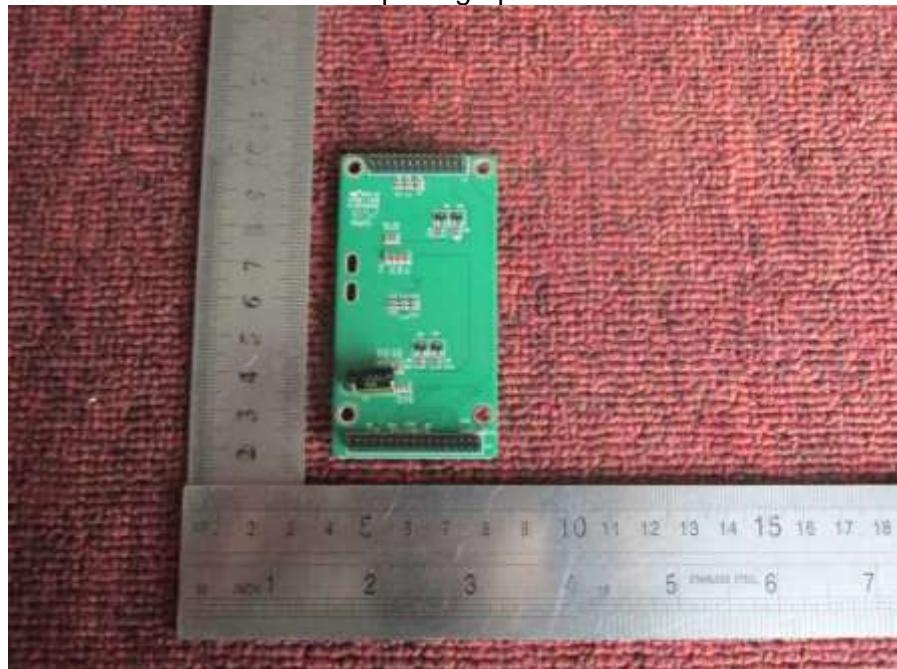
Internal photograph of EUT



Internal photograph of EUT



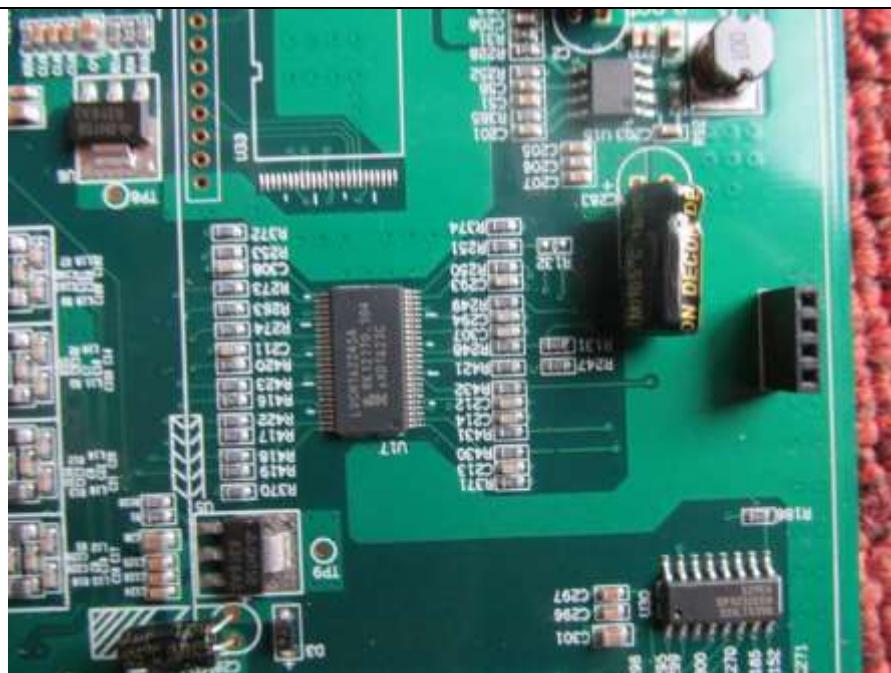
Internal photograph of EUT



Internal photograph of EUT



Internal photograph of EUT



Internal photograph of EUT



---END OF REPORT---