

FCC Report

Application Purpose : Original grant

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

FCC ID : 2ALWI-UC2000VF

Equipment Type : VOIP Gateway

Model Name : UC2000-VF

Report Number : FCC17040275A-1

Standard(S) : FCC Part 15 Subpart B

Date Of Receipt : April 19, 2017

Date Of Issue : April 26, 2017

Test By : 
(Dekun Liu)

Reviewed By : 
(Sol Qin)

Authorized by : 
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Registration Number: 588523

REPORT REVISE RECORD				
Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	April 26, 2017	Valid	Original Report

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1. GENERAL INFORMATION

Test Model	UC2000-VF
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:	N/A
Data of receipt	April 19, 2017
Date of test	April 19, 2017 to April 26 , 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.

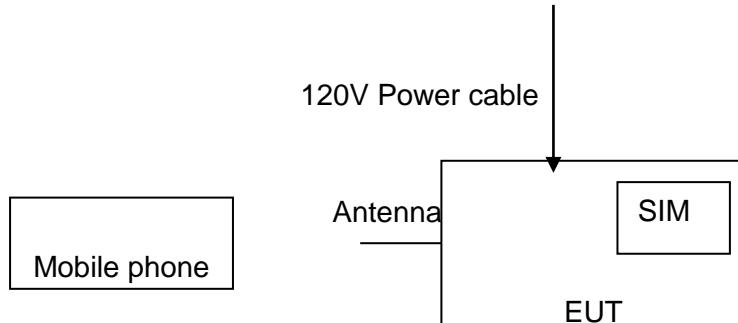
Pretest Mode	Description
Mode 1	Exchange data with mobile phone
Mode 2	Exchange data with compute

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

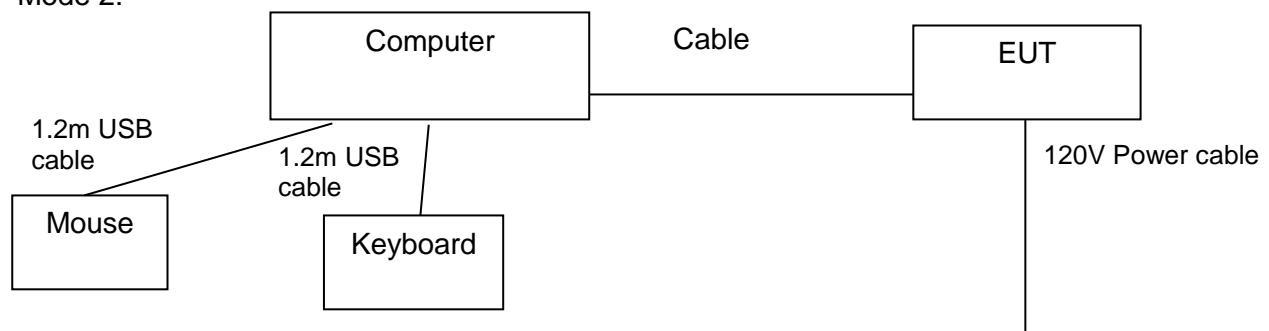
2.3 CONFIGURATION OF SYSTEM UNDER TEST

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	Keyboard	HP	SK-2880	435302-AA-	/
2	Mouse	DELL	MS111-1	/	/
3	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

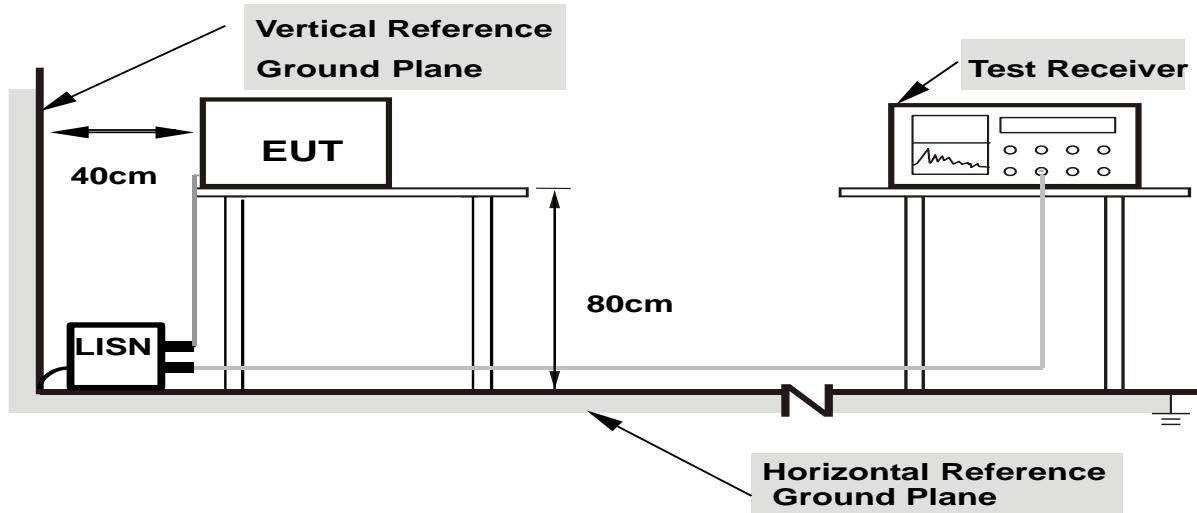
5.1.2 TEST PROCEDURE

- 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:

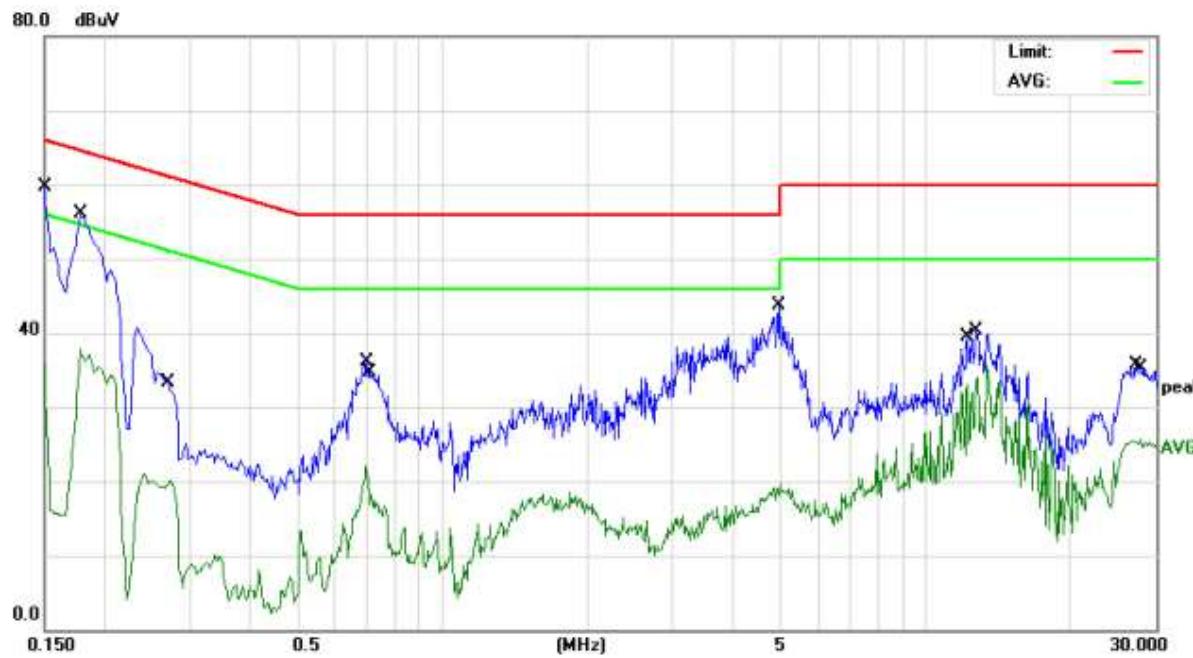
1. Support units were connected to second LISN.
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

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.

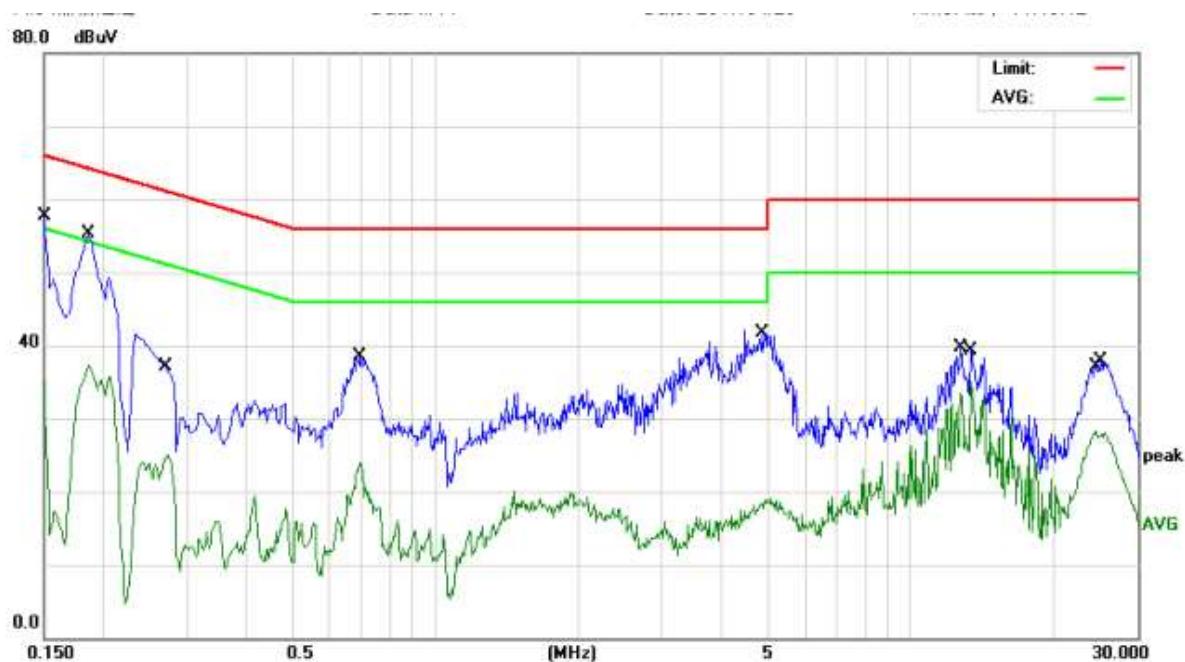
5.1.6 TEST RESULTS

EUT	VOIP Gateway	Model Name	UC2000-VF
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	L
Test Date	April 23, 2017	Test Mode	Mode 1



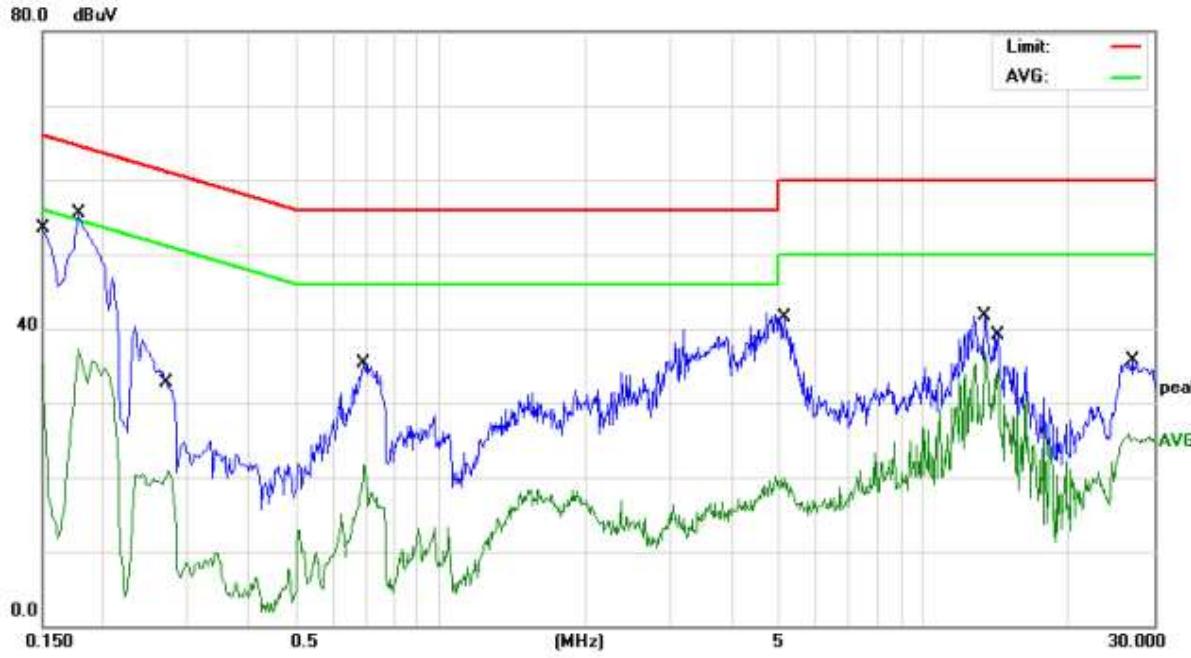
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
			Level	Factor	ment		dB	Detector
		MHz	dBuV	dB	dBuV	dBuV		
1	*	0.1499	47.80	11.90	59.70	66.00	-6.30	QP
2		0.1499	23.98	11.90	35.88	56.00	-20.12	AVG
3		0.1780	44.49	11.52	56.01	64.57	-8.56	QP
4		0.1785	26.00	11.51	37.51	54.55	-17.04	AVG
5		0.2740	8.99	11.10	20.09	50.99	-30.90	AVG
6		0.6980	25.32	10.77	36.09	56.00	-19.91	QP
7		0.7140	7.30	10.76	18.06	46.00	-27.94	AVG
8		4.9659	33.26	10.53	43.79	56.00	-12.21	QP
9		12.1979	22.58	10.58	33.16	50.00	-16.84	AVG
10		12.7459	29.79	10.60	40.39	60.00	-19.61	QP
11		27.3780	25.12	10.62	35.74	60.00	-24.26	QP
12		27.9060	15.00	10.65	25.65	50.00	-24.35	AVG

EUT	VOIP Gateway	Model Name	UC2000-VF
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	N
Test Date	April 23, 2017	Test Mode	Mode 1



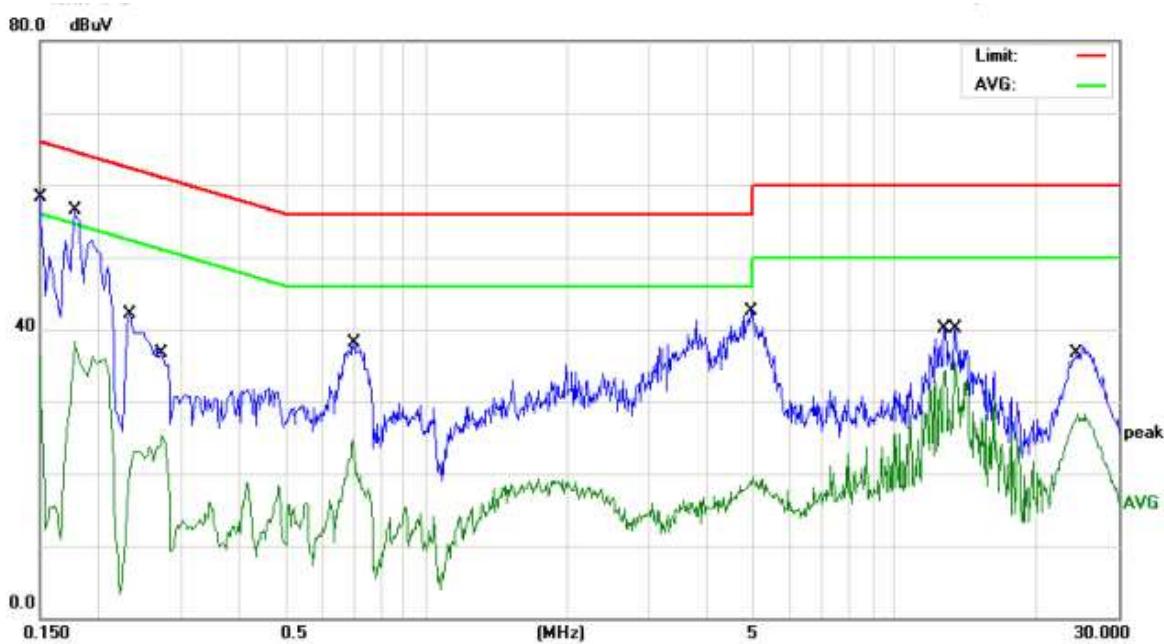
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV	dBuV	dB	
1	*	0.1500	45.88	11.90	57.78	65.99	-8.21	QP
2		0.1500	23.44	11.90	35.34	55.99	-20.65	AVG
3		0.1860	43.82	11.40	55.22	64.21	-8.99	QP
4		0.1860	25.96	11.40	37.36	54.21	-16.85	AVG
5		0.2740	14.01	11.10	25.11	50.99	-25.88	AVG
6		0.6940	27.69	10.77	38.46	56.00	-17.54	QP
7		0.6980	13.11	10.77	23.88	46.00	-22.12	AVG
8		4.8780	31.11	10.53	41.64	56.00	-14.36	QP
9		12.7500	29.12	10.60	39.72	60.00	-20.28	QP
10		13.3580	24.48	10.59	35.07	50.00	-14.93	AVG
11		24.5740	17.68	10.59	28.27	50.00	-21.73	AVG
12		25.0940	27.35	10.59	37.94	60.00	-22.06	QP

EUT	VOIP Gateway	Model Name	UC2000-VF	
Temperature	26 °C	Relative Humidity	54%	
Pressure	1010hPa	Phase	L	
Test Date	April 23, 2017	Test Mode	Mode 2	



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Detector
		MHz	dBuV	dB	dBuV	dBuV	dB	
1		0.1500	41.63	11.90	53.53	65.99	-12.46	QP
2		0.1500	23.46	11.90	35.36	55.99	-20.63	AVG
3	*	0.1780	43.90	11.52	55.42	64.57	-9.15	QP
4		0.1780	25.85	11.52	37.37	54.57	-17.20	AVG
5		0.2740	9.77	11.10	20.87	50.99	-30.12	AVG
6		0.6940	24.53	10.77	35.30	56.00	-20.70	QP
7		0.6940	10.96	10.77	21.73	46.00	-24.27	AVG
8		5.1579	30.99	10.53	41.52	60.00	-18.48	QP
9		13.3580	31.17	10.59	41.76	60.00	-18.24	QP
10		13.3580	26.31	10.59	36.90	50.00	-13.10	AVG
11		14.2140	28.49	10.60	39.09	60.00	-20.91	QP
12		26.7180	14.76	10.61	25.37	50.00	-24.63	AVG

EUT	VOIP Gateway	Model Name	UC2000-VF
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	N
Test Date	April 23, 2017	Test Mode	Mode 2



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV	dBuV	dB	
1	*	0.1500	46.37	11.90	58.27	65.99	-7.72	QP
2		0.1500	24.44	11.90	36.34	55.99	-19.65	AVG
3		0.1780	44.94	11.52	56.46	64.57	-8.11	QP
4		0.1780	26.75	11.52	38.27	54.57	-16.30	AVG
5		0.2340	30.88	11.16	42.04	62.30	-20.26	QP
6		0.2740	14.14	11.10	25.24	50.99	-25.75	AVG
7		0.6980	13.97	10.77	24.74	46.00	-21.26	AVG
8		0.7019	27.34	10.77	38.11	56.00	-17.89	QP
9		4.9899	30.96	10.53	41.49	56.00	-14.51	QP
10		12.7500	29.43	10.60	40.03	60.00	-19.97	QP
11		13.3580	25.07	10.59	35.66	50.00	-14.34	AVG
12		24.5740	17.74	10.59	28.33	50.00	-21.67	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:

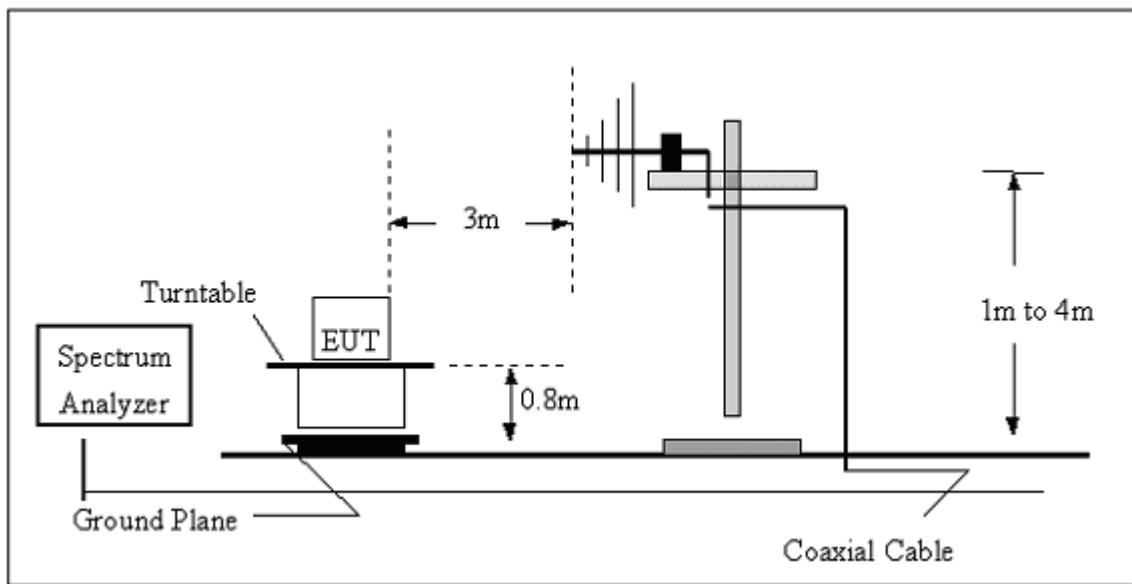
***Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported***

5.2.3 DEVIATION FROM TEST STANDARD

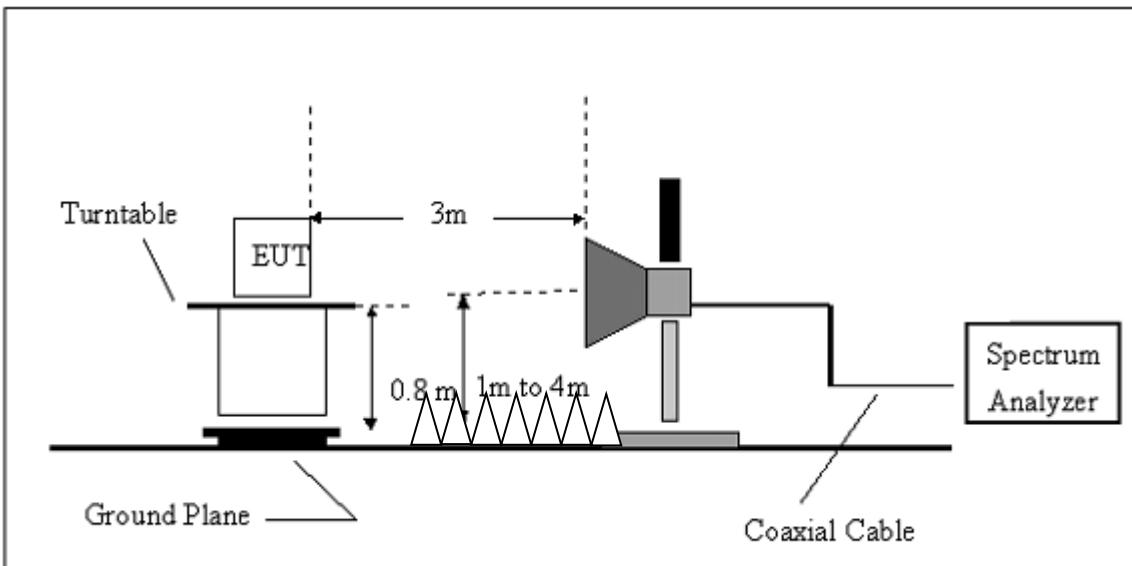
No deviation

5.2.4 TEST SETUP

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



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

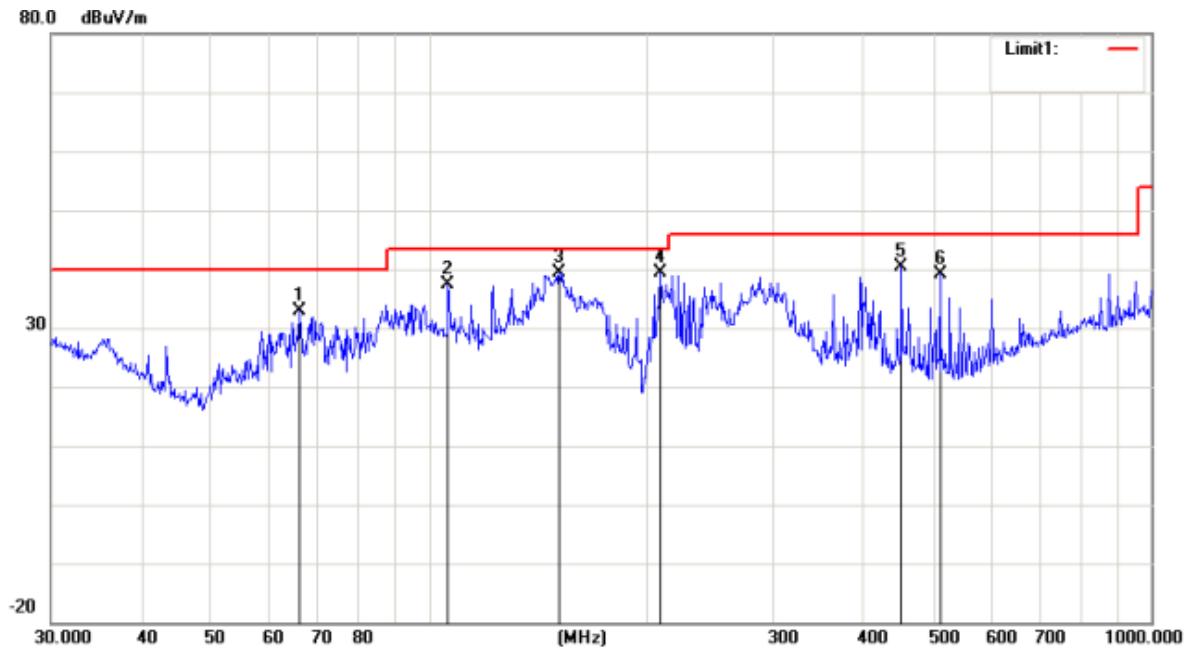


5.2.5 EUT OPERATING CONDITIONS

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-VF
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Horizontal
Test Mode	Mode 1	Test Date	April 23, 2017



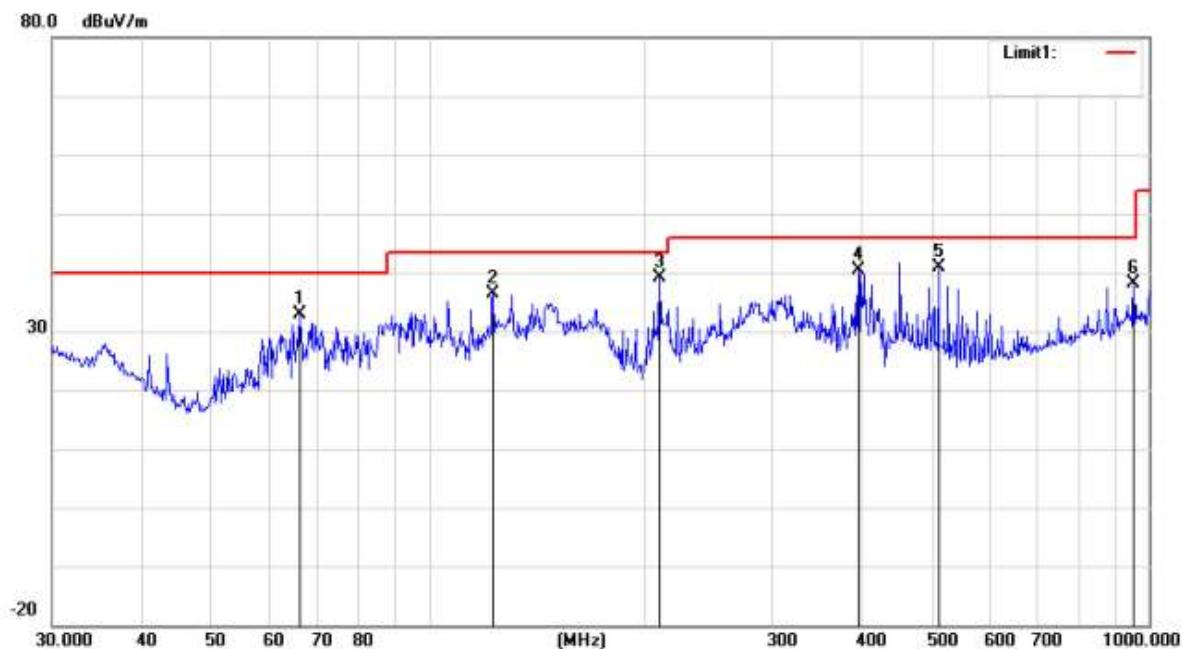
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Over Detector
1		66.2662	41.49	-8.54	32.95	40.00	-7.05	QP
2		106.3850	41.99	-4.57	37.42	43.50	-6.08	QP
3	*	151.5972	43.48	-3.98	39.50	43.50	-4.00	QP
4		209.3129	44.58	-5.15	39.43	43.50	-4.07	QP
5		451.1350	42.33	-2.03	40.30	46.00	-5.70	QP
6		510.0436	39.77	-0.70	39.07	46.00	-6.93	QP

EUT	VOIP Gateway	Model Name	UC2000-VF
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Vertical
Test Mode	Mode 1	Test Date	April 23, 2017



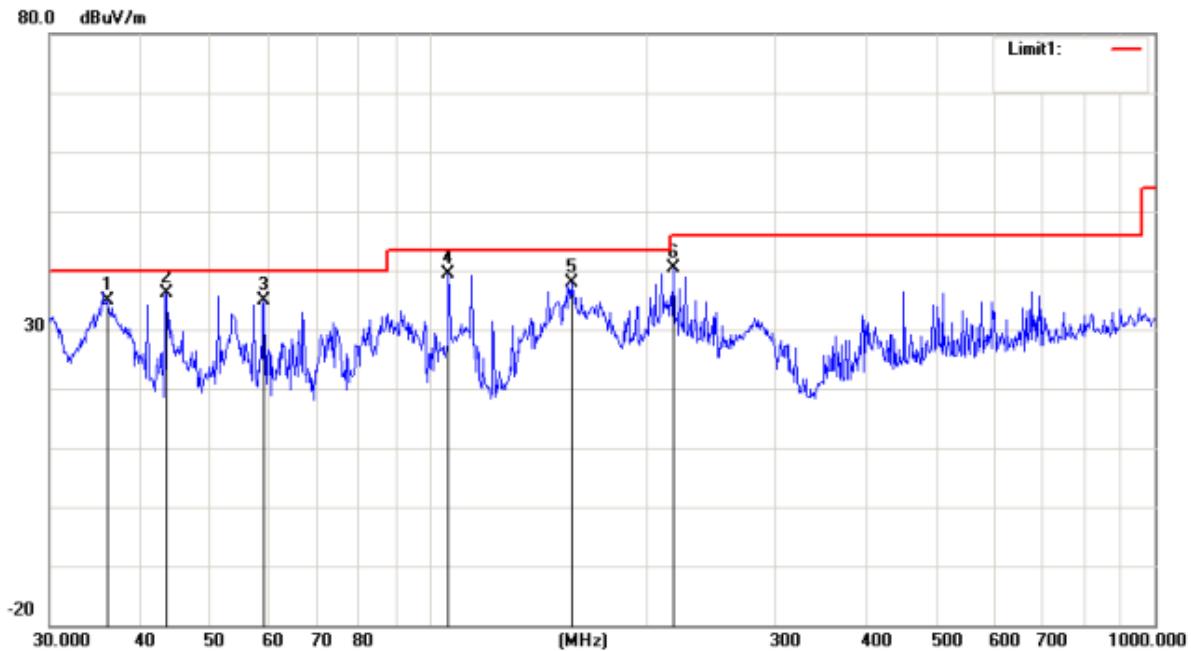
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	*	35.4992	36.59	-0.23	36.36	40.00	-3.64	QP
2		59.2325	45.10	-9.41	35.69	40.00	-4.31	QP
3		106.3850	44.01	-4.57	39.44	43.50	-4.06	QP
4		158.1123	43.21	-4.29	38.92	43.50	-4.58	QP
5		209.3129	44.14	-5.15	38.99	43.50	-4.51	QP
6		675.2078	34.98	1.97	36.95	46.00	-9.05	QP

EUT	VOIP Gateway	Model Name	UC2000-VF
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Horizontal
Test Mode	Mode 2	Test Date	April 23, 2017



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over
			Level	Factor	ment		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB
1		66.2661	41.30	-8.54	32.76	40.00	-7.24
2		122.8340	38.67	-2.22	36.45	43.50	-7.05
3	*	209.3129	44.37	-5.15	39.22	43.50	-4.28
4		394.8544	42.93	-2.65	40.28	46.00	-5.72
5		510.0436	41.46	-0.70	40.76	46.00	-5.24
6		952.0937	15.93	22.19	38.12	46.00	-7.88

EUT	VOIP Gateway	Model Name	UC2000-VF
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Vertical
Test Mode	Mode 2	Test Date	April 23, 2017



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		36.0007	35.48	-0.60	34.88	40.00	-5.12	QP
2	*	43.5057	41.78	-5.75	36.03	40.00	-3.97	QP
3		59.2325	44.18	-9.41	34.77	40.00	-5.23	QP
4		106.3850	44.05	-4.57	39.48	43.50	-4.02	QP
5		157.0074	42.06	-4.26	37.80	43.50	-5.70	QP
6		216.7828	45.90	-5.41	40.49	46.00	-5.51	QP

5.2.5.2 TEST RESULTS (1GHZ TO 6GHZ)

EUT	VOIP Gateway			Model Name	UC2000-VF	
Temperature	20 °C			Relative Humidity	48%	
Pressure	1010 hPa			Test Mode	Mode 1	
Test Date	April 23, 2017					

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		H/V	PK	AV	PK	AV	PK
1632.45	V	59.92	39.71	74	54	-14.08	-14.29
2829.27	V	59.62	39.35	74	54	-14.38	-14.65
1684.52	H	58.14	40.97	74	54	-15.86	-13.03
2831.6	H	59.27	40.27	74	54	-14.73	-13.73

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-VF	
Temperature	20 °C			Relative Humidity	48%	
Pressure	1010 hPa			Test Mode	Mode 2	
Test Date	April 23, 2017					

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		H/V	PK	AV	PK	AV	PK
1583.35	V	59.01	41.13	74	54	-14.99	-12.87
2641.52	V	58.79	40.65	74	54	-15.21	-13.35
1628.42	H	59.27	40.11	74	54	-14.73	-13.89
2810.39	H	58.43	39.43	74	54	-15.57	-14.57

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.

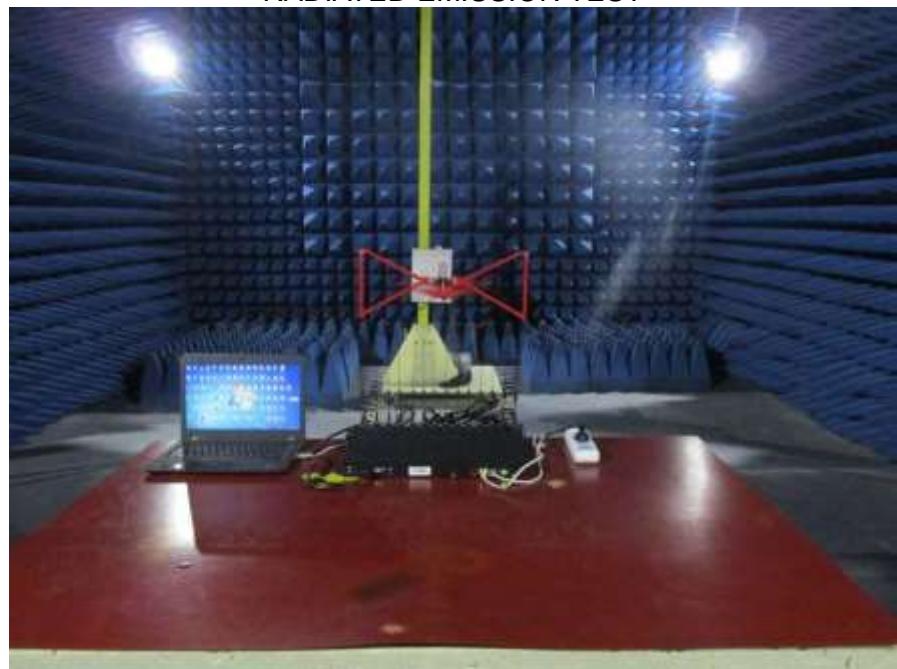
All the x/y/z orientation has been investigated, and only worst case is presented in this report.

6. EUT TEST PHOTO

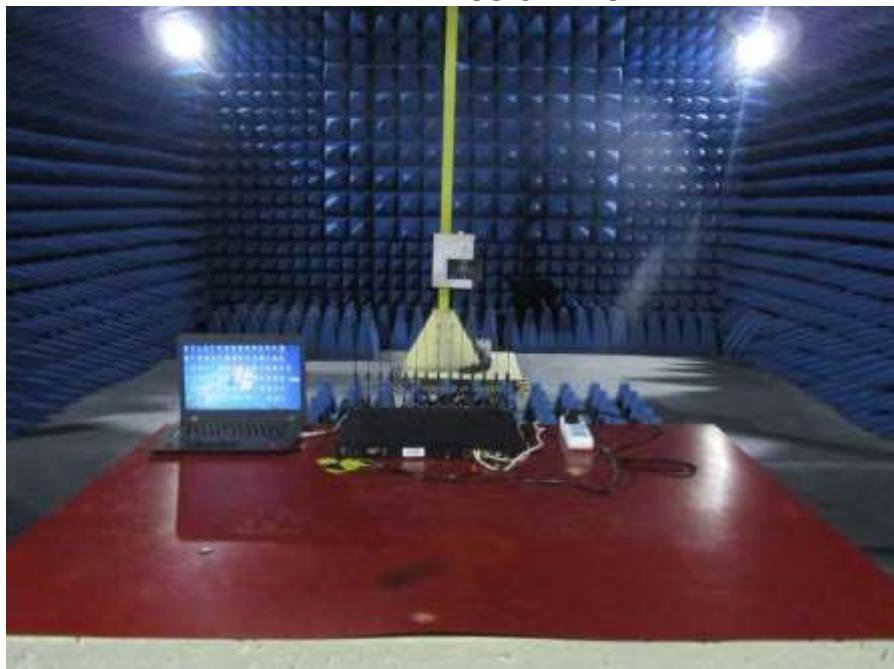
CONDUCTED EMISSION TEST



RADIATED EMISSION TEST



RADIATED EMISSION TEST



7. PHOTOGRAPHS OF EUT

Appearance photograph of EUT



Appearance photograph of EUT



Appearance photograph of EUT



Appearance photograph of EUT



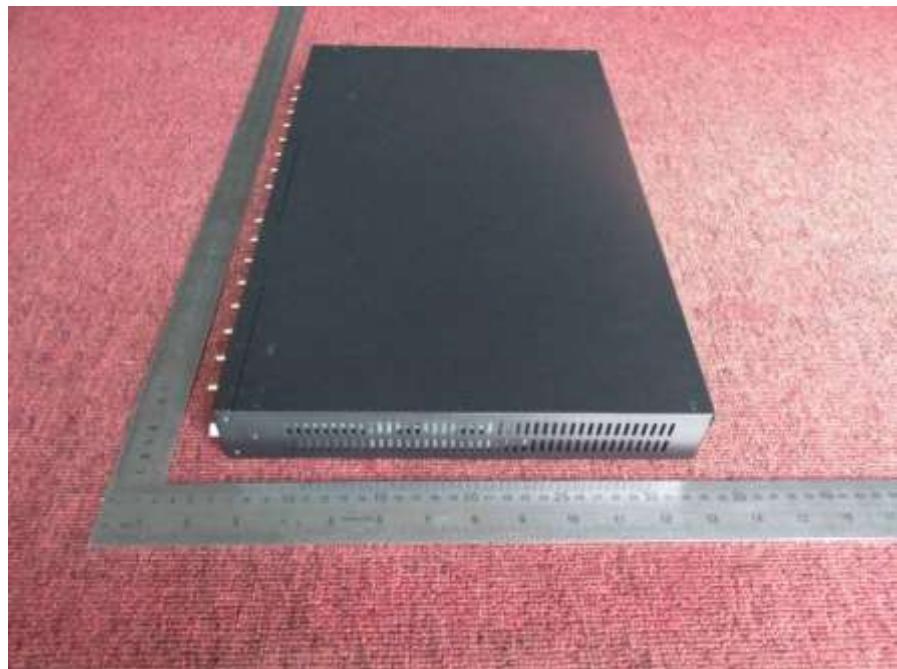
Appearance photograph of EUT



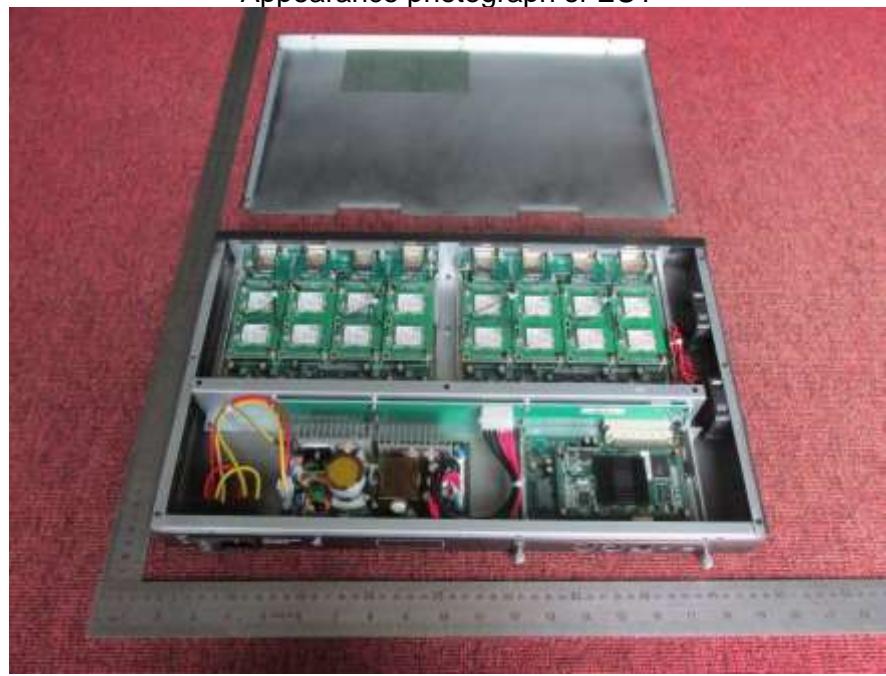
Appearance photograph of EUT



Appearance photograph of EUT



Appearance photograph of EUT



Internal photograph of EUT



Internal photograph of EUT



Internal photograph of EUT



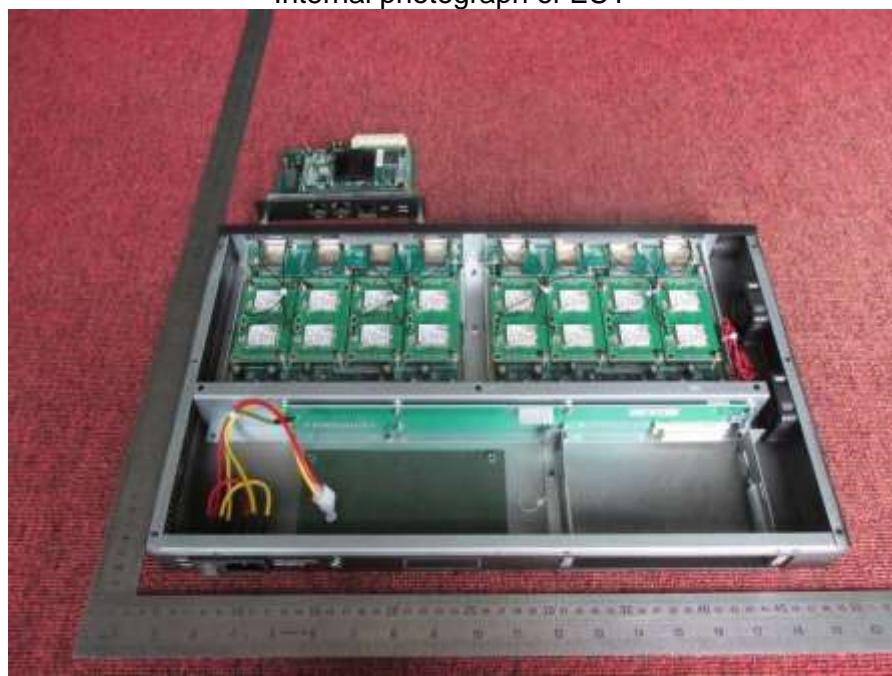
Internal photograph of EUT



Internal photograph of EUT



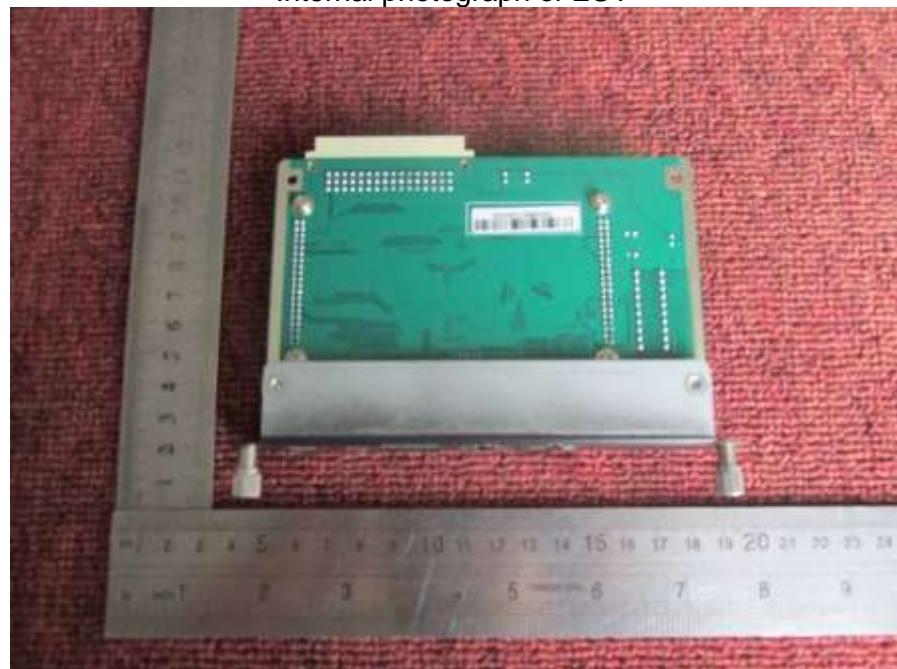
Internal photograph of EUT



Internal photograph of EUT



Internal photograph of EUT



Internal photograph of EUT



Internal photograph of EUT



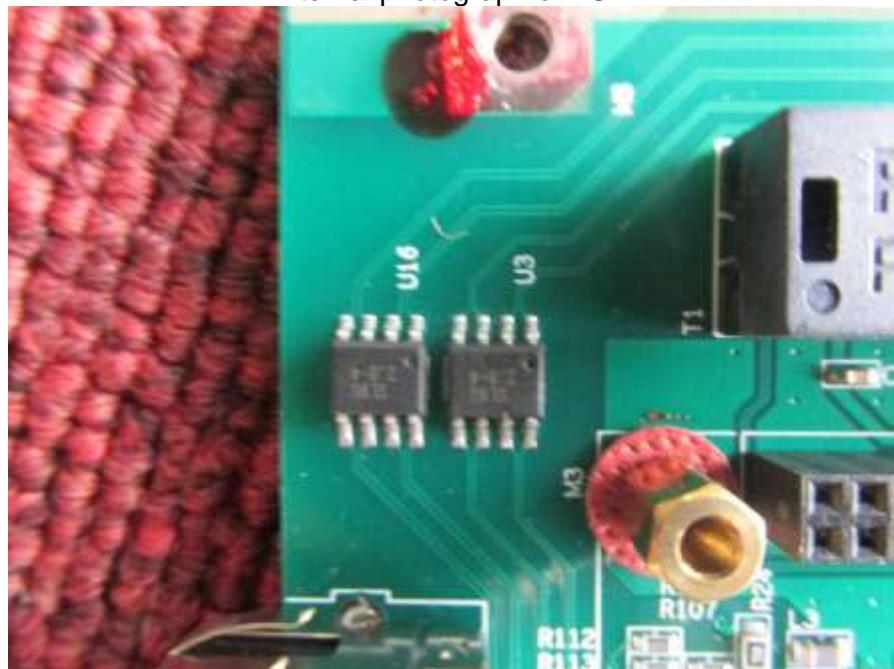
Internal photograph of EUT



Internal photograph of EUT



Internal photograph of EUT



Internal photograph of EUT



Internal photograph of EUT



Internal photograph of EUT



Internal photograph of EUT



---END OF REPORT---