

FCC Part 15B TEST REPORT

S T S

Report No.: STS1906285E01

Issued for

Shenzhen Exceed Technology Co., Ltd.

Rm2209, Leizhen Building, Futian District, Shenzhen, China

Product Name:	VitalCare	
Brand Name:	N/A	
Model Name:	EX4M02-S	
Series Model:	N/A	
FCC ID:	2APQOEX4M02-S	
Contains FCC ID:	2AJFN-RTL00-01,2AD9QX4M05	
Test Standard:	FCC 47 CFR Part 15: Subpart B	

Any reproduction of this document must be done in full. No single part of this document may be reproduced with permission from STS, All Test Data Presented in this report is only applicable to presented Test Sample/AL



Page 2 of 22

Report No.: STS1906285E01

TEST RESULT CERTIFICATION

Applicant's Name:	Shenzhen Exceed Technology Co., Ltd.	
Address:	Rm2209, Leizhen Building, Futian District, Shenzhen, China	
Manufacture's Name:	Shenzhen Exceed Technology Co., Ltd.	
Address:	Rm2209, Leizhen Building, Futian District, Shenzhen, China	
Product Description		
Product Name:	VitalCare	
Brand Name:	N/A	
Model Name:	EX4M02-S	
Series Model:	N/A	
Standards	FCC 47 CFR Part 15: Subpart B	
Test Procedure::	ANSI C63.4-2014	

This device described above has been tested by STS, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

This report shall not be reproduced except in full, without the written approval of STS, this document may be altered or revised by STS, personal only, and shall be noted in the revision of the document.

Date of Test:

 Date of Performance of Tests
 31 May. 2019~30 June. 2019

 Date of Issue
 01 July. 2019

 Test Result
 Pass

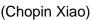
:

Compiled by

Mickey Ven

(Mickey Deng)

Technical Manager



APPROVAL 6

Authorized Signatory :

(Vita Li)

Shenzhen STS Test Services Co., Ltd.

Report No.: STS1906285E01



Table of Contents

Page 3 of 22

1. SUMMARY OF THE TEST RESULTS	5
1.1 TEST FACTORY	5
1.2 MEASUREMENT UNCERTAINTY	5
2. GENERAL INFORMATION	6
2.1 GENERAL DESCRIPTION OF THE EUT	6
2.2 DESCRIPTION OF THE TEST MODES	7
2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF THE SYSTEM	TESTED7
2.4 DESCRIPTION OF THE SUPPORT UNITS	8
2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS	9
3. EMC EMISSION TEST	10
3.1 CONDUCTED EMISSION MEASUREMENT	10
3.2 RADIATED EMISSION MEASUREMENT	14



Page 4 of 22

Report No.: STS1906285E01

Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	01 July. 2019	STS1906285E01	ALL	Initial Issue



Shenzhen STS Test Services Co., Ltd.



1. SUMMARY OF THE TEST RESULTS

Test procedures according to the technical standards:

EMISSION			
Standard	ltem	Result	Remarks
FCC 47 CFR Part 15: Subpart B	Conducted Emission	PASS	Meet Class B limit
1 CC 47 CF X Fait 15. Subpart B	Radiated Emission	PASS	Meet Class B limit

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report

1.1 TEST FACTORY

Company Name:	Shenzhen STS Test Services Co. Ltd.	
Address: 1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road, Fuyong Street, Bao'an District, Shenzhen, Guangdong, China		
Telephone: +86-755 3688 6288		
Fax: +86-755 3688 6277		
Desistration No.	FCC test Firm Registration Number: 625569	
Registration No.:	A2LA Certificate No.: 4338.01;	

1.2 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 approximately95 % $^{\circ}$

No.	Item	Uncertainty
1	Conducted Emission (9KHz-150KHz)	±3.18dB
2	Conducted Emission (150KHz-30MHz)	±2.70dB
3	All emissions,radiated(<1G) 30MHz-200MHz	±3.43dB
4	All emissions,radiated(<1G) 200MHz-1000MHz	±3.57dB
5	All emissions, radiated (>1G)	±4.13dB
6	All emissions,radiated(<1G) 9KHz-30MHz	±2.50dB

Shenzhen STS Test Services Co., Ltd.



Report No.: STS1906285E01

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	VitalCare
Brand Name	N/A
Model Name	EX4M02-S
Series Model	N/A
Product Differences	N/A
Test Sample Number	190530001
Product Description	The EUT is a VitalCare Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Digital Apparatus. More details of EUT technical specification, please refer to the User's Manual.
Power Source	Input: 5V 2A
Power Rating	Input: AC 100-240V, 350mA,50-60Hz Output: DC5V, 2000mA

Note: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

Shenzhen STS Test Services Co., Ltd.





2.2 DESCRIPTION OF THE 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	WLAN Connecting Mode	

For Conducted Test			
Final Test Mode Description			
Mode 1	WLAN Connecting Mode		

For Radiated Test			
Final Test Mode Description			
Mode 1 WLAN Connecting Mode			

NOTE: The test modes were carried out for all operation modes. Only worst case will be show in this report.

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF THE SYSTEM TESTED



Page 8 of 22



2.4 DESCRIPTION OF THE SUPPORT UNITS

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.

Accessories equipment

Item	Equipment	Mfr/Brand	Model/Type No.
E-1	Adapter	N/A	JZB012-050200UX

Auxiliary equipment

Item	Equipment	Mfr/Brand	Model/Type No.
E-2	Phone	UNNECTO	U730

Cable

Item	Туре	Shielded Type	Ferrite Core	Length
C-1	N/A	Shielded	NO	170cm

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) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

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.

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
EMI Test Receiver	R&S	ESCI	101427	2018.10.13	2019.10.12
Bi-log Antenna	TESEQ	CBL6111D	34678	2017.11.02	2020.11.01
Horn Antenna	SCHWARZB ECK	BBHA 9120D	9120D-1343	2018.10.19	2021.10.18
Pre-amplifier(1G-18 G)	SKET	LNPA-01018G- 45	SK2018080901	2018.10.13	2019.10.12
Pre-amplifier(0.1M-3 GHz)	EM	EM330	060665	2018.10.13	2019.10.12
Spectrum Analyzer	Agilent	N9020A	MY49100060	2018.10.13	2019.10.12
RE Cable (9K-1G)	N/A	R01	N/A	2018.10.13	2019.10.12
RE Cable (1G-18G)	N/A	R02	N/A	2018.10.13	2019.10.12
Temperature & Humidity	Mieo	HH660	N/A	2018.10.11	2019.10.10
Horn Antenna(18-40GHz)	A-INFO	LB-180400-KF	J211020657	2018.03.11	2021.03.10
Testing Software	EZ-EMC(Ver.STSLAB-03A1 RE)				

Radiation Test equipment

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
EMI Test Receiver	R&S	ESCI	101427	2018.10.13	2019.10.12
LISN	R&S	ENV216	101242	2018.10.11	2019.10.10
LISN	ETS	3810/2NM	00023625	2018.10.11	2019.10.10
Absorbing Clamp	R&S	MDS-21	100668	2018.10.17	2019.10.16
CE Cable	N/A	C01	N/A	2018.10.13	2019.10.12
Temperature & Humidity	Mieo HH660 N/A 2018.10.11 2019.10.10				
Testing Software	EZ-EMC(Ver.STSLAB-03A1 CE)				

Page 10 of 22

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits

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

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		

Page 11 of 22



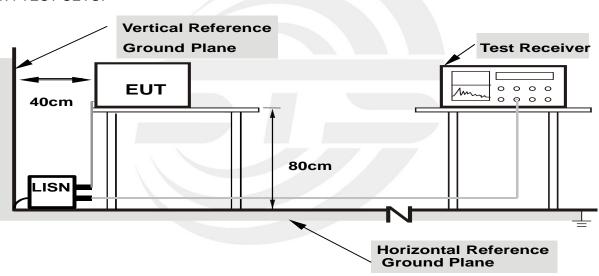
3.1.2 TEST PROCEDURE

- a. The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical 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. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 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 from other units and other metal planes

3.1.5 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.



3.1.6 TEST RESULTS

Temperature:	25.4 ℃	Relative Humidity:	65%
Phase:	L	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.5500	31.17	20.39	51.56	56.00	-4.44	QP
2	0.5500	22.40	20.39	42.79	46.00	-3.21	AVG
3	1.0980	18.32	20.16	38.48	56.00	-17.52	QP
4	1.0980	6.02	20.16	26.18	46.00	-19.82	AVG
5	1.8420	17.06	20.15	37.21	56.00	-18.79	QP
6	1.8420	5.96	20.15	26.11	46.00	-19.89	AVG
7	2.8380	15.30	20.10	35.40	56.00	-20.60	QP
8	2.8380	4.02	20.10	24.12	46.00	-21.88	AVG
9	4.9140	14.24	20.03	34.27	56.00	-21.73	QP
10	4.9140	2.13	20.03	22.16	46.00	-23.84	AVG
11	7.4620	12.87	19.89	32.76	60.00	-27.24	QP
12	7.4620	1.33	19.89	21.22	50.00	-28.78	AVG

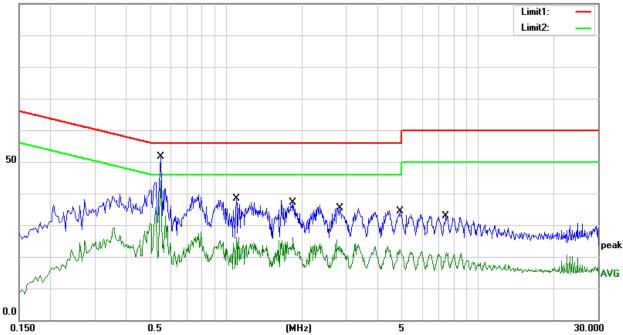
Remark:

1. All readings are Quasi-Peak and Average values.

2. Margin = Result (Result = Reading + Factor)-Limit

3. Factor= Cable Loss +Antenna Factor-Amplifier Gain

100.0 dBuV



Shenzhen STS Test Services Co., Ltd.

 1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road, Fuyong Street, Bao'an District, Shenzhen, Guangdong, China

 Tel: + 86-755
 3688
 6288
 Fax:+ 86-755
 3688
 6277
 Http://www.stsapp.com
 E-mail: sts@stsapp.com



Page 13 of 22 Report No.: STS1906285E01

Temperature:	25.4 ℃	Relative Humidity:	65%
Phase:	Ν	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.5500	27.43	20.39	47.82	56.00	-8.18	QP
2	0.5500	22.56	20.39	42.95	46.00	-3.05	AVG
3	1.2660	12.91	20.16	33.07	56.00	-22.93	QP
4	1.2660	3.90	20.16	24.06	46.00	-21.94	AVG
5	2.3780	11.88	20.12	32.00	56.00	-24.00	QP
6	2.3780	2.15	20.12	22.27	46.00	-23.73	AVG
7	3.3300	11.37	20.07	31.44	56.00	-24.56	QP
8	3.3300	2.81	20.07	22.88	46.00	-23.12	AVG
9	5.9300	10.87	19.93	30.80	60.00	-29.20	QP
10	5.9300	-0.16	19.93	19.77	50.00	-30.23	AVG
11	9.9980	8.06	19.85	27.91	60.00	-32.09	QP
12	9.9980	-2.83	19.85	17.02	50.00	-32.98	AVG

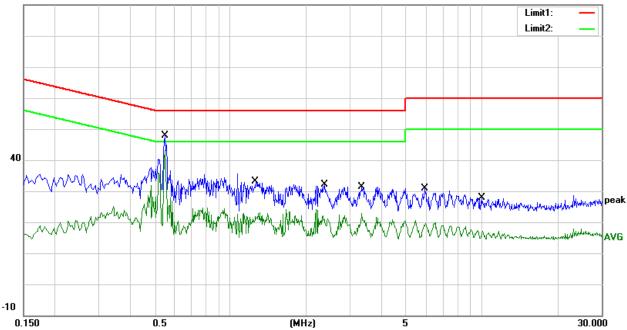
Remark:

1. All readings are Quasi-Peak and Average values.

2. Margin = Result (Result = Reading + Factor)-Limit

3. Factor= Cable Loss +Antenna Factor-Amplifier Gain

90.0 dBuV



Note: The test voltage is 100-240V, both of which have assessment tests, and the worst test data is in the report.

3.2 RADIATED EMISSION MEASUREMENT

3.2.1 Radiated Emission Limits

Class A: ITE that meets the conditions for Class A operation defined in Section 2.2 shall comply with the Class A radiated limits set out in Table 4 determined at a distance of 3 metres.

Class A Radiated Limits Below 1 GHz:

Frequencies	Class A (dBµV/m)	
(MHz)	Quasi-peak	
30~88	49.5	
88~216	53.9	
216~960	56.9	
960~1000	60	

Class B: ITE that does not meet the conditions for Class A operation shall comply with the Class B radiated limits set out in Table 5 determined at a distance of 3 metres.

Class B Radiated Limits Below 1 GHz:

Frequencies	Class B (dBµV/m)		
(MHz)	Quasi-peak		
30~88	40		
88~216	43.5		
216~960	46		
960~1000	54		

In case the emission 109(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3



LIMITS OF RADIATED EMISSION MEASUREMENT

	Class A (d	BuV/m) (at 3M)	Class B (dBuV/m) (at 3M)		
FREQUENCY (MHz)	PEAK AVERAGE		PEAK	AVERAGE	
Above 1000	80	60	74	54	

Note:

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

FREQUENCY RANGE OF THE RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper	
frequency of measurement used in the device or on which the device operates or tunes	Range (MHz)
(MHz)	
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

Shenzhen STS Test Services Co., Ltd.



Page 16 of 22 Report No.: STS1906285E01

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	5th harmonic (Peak/AV)
RB / VB (emission in restricted	30MHz to 1000MHz: 100 KHz / 300 KHz
band)	Above 1000MHz: 1 MHz / 3 MHz

Receiver Parameter	Setting		
Attenuation	Auto		
Start ~ Stop Frequency	30MHz to 1000MHz: 100 KHz / 300 KHz		
Start ~ Stop Frequency	Above 1000MHz: 1 MHz / 3 MHz		

3.2.2 TEST PROCEDURE

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from 1 meter to 4 meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1GHz.
- 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

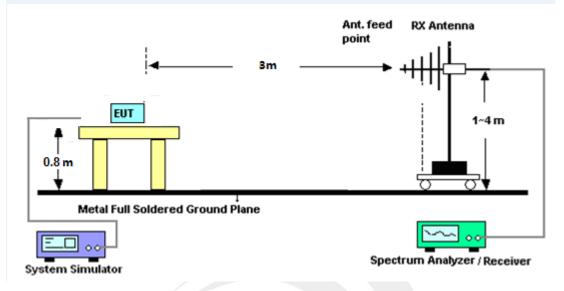
3.2.3 DEVIATION FROM TEST STANDARD

No deviation

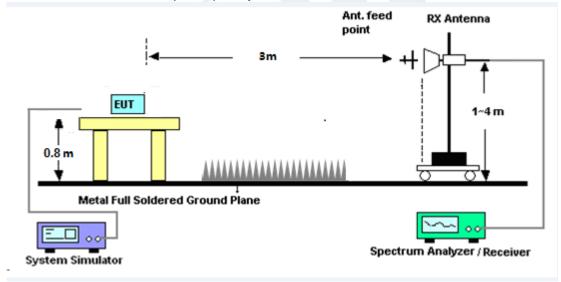


3.2.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 1 GHz



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



3.2.5 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 following during the testing.



3.2.6 TEST RESULTS

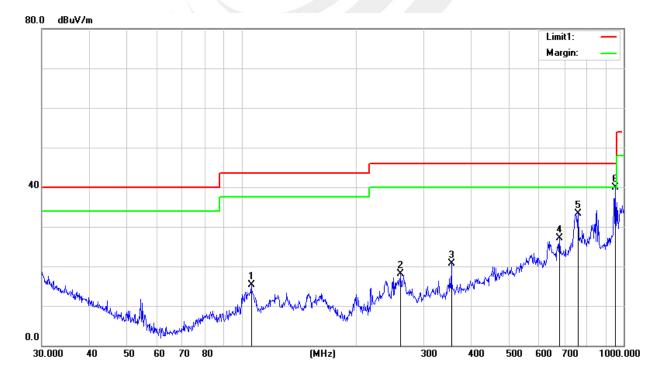
30MHz -1000MHz

Temperature:	25.1 ℃	Relative Humidity:	62%
Phase:	Horizontal	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	106.0126	33.51	-18.22	15.29	43.50	-28.21	QP
2	261.0583	31.55	-13.50	18.05	46.00	-27.95	QP
3	354.1831	33.55	-12.81	20.74	46.00	-25.26	QP
4	679.9600	33.22	-6.05	27.17	46.00	-18.83	QP
5	760.7036	36.66	-3.31	33.35	46.00	-12.65	QP
6	952.0937	39.71	0.18	39.89	46.00	-6.11	QP

Remark:

- 1. All readings are Quasi-Peak.
- 2. Margin = Result (Result = Reading + Factor)-Limit
- 3. Factor= Cable Loss +Antenna Factor-Amplifier Gain



Shenzhen STS Test Services Co., Ltd.



Page 19 of 22 Report No.: STS1906285E01

Temperature:	25.1 ℃	Relative Humidity:	62%
Phase:	Vertical	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.0000	34.37	-11.19	23.18	40.00	-16.82	QP
2	106.0126	40.63	-18.68	21.95	43.50	-21.55	QP
3	451.1350	40.41	-10.46	29.95	46.00	-16.05	QP
4	642.8613	41.00	-6.34	34.66	46.00	-11.34	QP
5	758.0407	43.54	-3.60	39.94	46.00	-6.06	QP
6	949.1537	43.08	-0.44	42.64	46.00	-3.36	QP

Remark:

1. All readings are Quasi-Peak.

2. Margin = Result (Result = Reading + Factor)-Limit

3. Factor= Cable Loss +Antenna Factor-Amplifier Gain

80.0 dBuV/m



Shenzhen STS Test Services Co., Ltd.



(1 GHz to 25GHz.)

Temperature:	22.4 °C	Relative Humidity:	68%
Phase:	Horizontal	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	3832.000	36.17	0.91	37.08	74.00	-36.92	Peak
2	3832.000	26.57	0.91	27.48	54.00	-26.52	AVG
3	7072.000	34.87	9.87	44.74	74.00	-29.26	Peak
4	7072.000	26.17	9.87	36.04	54.00	-17.96	AVG
5	14176.000	12.54	41.27	53.81	74.00	-20.19	Peak
6	14176.000	3.07	41.27	44.34	54.00	-9.66	AVG
7	18112.000	17.29	40.50	57.79	74.00	-16.21	Peak
8	18112.000	7.19	40.50	47.69	54.00	-6.31	AVG
9	20272.000	17.76	40.50	58.26	74.00	-15.74	Peak
10	20272.000	7.69	40.50	48.19	54.00	-5.81	AVG
11	24016.000	18.51	40.50	59.01	74.00	-14.99	Peak
12	24016.000	8.02	40.50	48.52	54.00	-5.48	AVG

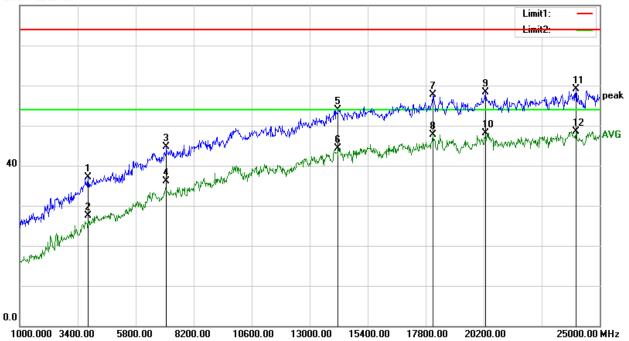
Remark:

1. All readings are Peak and Average values.

2. Margin = Result (Result = Reading + Factor)-Limit

3. Factor= Cable Loss +Antenna Factor-Amplifier Gain

80.0 dBu¥/m





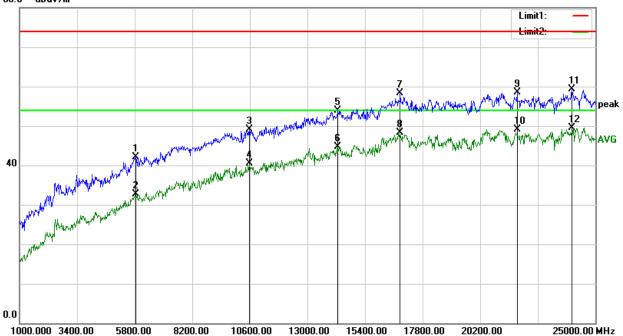
Page 21 of 22 Report No.: STS1906285E01

Temperature:	22.4 ℃	Relative Humidity:	68%
Phase:	Vertical	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	5848.000	36.28	5.92	42.20	74.00	-31.80	Peak
2	5848.000	26.84	5.92	32.76	54.00	-21.24	AVG
3	10576.000	34.27	14.75	49.02	74.00	-24.98	Peak
4	10576.000	25.83	14.75	40.58	54.00	-13.42	AVG
5	14272.000	12.83	41.15	53.98	74.00	-20.02	Peak
6	14272.000	3.51	41.15	44.66	54.00	-9.34	AVG
7	16864.000	18.90	39.43	58.33	74.00	-15.67	Peak
8	16864.000	8.79	39.43	48.22	54.00	-5.78	AVG
9	21736.000	18.05	40.50	58.55	74.00	-15.45	Peak
10	21736.000	8.53	40.50	49.03	54.00	-4.97	AVG
11	24016.000	18.88	40.50	59.38	74.00	-14.62	Peak
12	24016.000	8.98	40.50	49.48	54.00	-4.52	AVG

Remark:

- 1. All readings are Peak and Average values.
- 2. Margin = Result (Result = Reading + Factor)-Limit
- 3. Factor= Cable Loss +Antenna Factor-Amplifier Gain
- 80.0 dBu∀/m



Page 22 of 22



Report No.: STS1906285E01

Notes:

- 1. Measuring frequencies from 1 GHz to 25GHz.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode of the emission shown in Actual FS column.



* * * * * END OF THE REPORT * * * * *

Shenzhen STS Test Services Co., Ltd.