

# **RADIO TEST REPORT**

S T S

Report No: STS1804130W08

Issued for

Linkplay Technology Inc.

8F-8036, Qianren Building, No.7, Yingcui Road, Jiangning District, Nanjing, China

Product Name:	Wireless Smart Audio Module	
Brand Name:	Linkplay	
Model Name:	A88	
Series Model:	A88-2	
FCC ID:	2ANOG-A88	
IC ID:	23153-A88	
Toot Stondards	FCC Part 15.247	
Test Standard:-	RSS-247 Issue 2, February 2017	

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# **TEST RESULT CERTIFICATION**

Applicant's name Linkplay	Technology Inc
	Qianren Building, No.7, Yingcui Road, Jiangning District,
Manufacture's Name Linkplay	
	Qianren Building, No.7, Yingcui Road, Jiangning District,
Product description	
Product Name Wireless	Smart Audio Module
Brand Name Linkplay	
Model Name A88	
Series Model A88-2	
Test Standards FCC Part	15.247
RSS-247	Issue 2, February 2017
Test procedure ANSI C63	3.10-2013
test (EUT) is in compliance with the FCC/I sample identified in the report. This report shall not be reproduced except	sted by STS, the test results show that the equipment under IC requirements. And it is applicable only to the tested t in full, without the written approval of STS, this document al only, and shall be noted in the revision of the document.
Date (s) of performance of tests	13 Apr. 2018 ~26 Apr. 2018
Date of Issue	26 Apr. 2018
Test Result	Pass
Testing Engineer : Technical Manager :	(Chris chen) (Chris chen) Sean She
Authorized Signatory :	(Sean she)

(Vita Li)

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### **Revision History**

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	26 Apr. 2018	STS1804130W08	ALL	Initial Issue



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# 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards: KDB 558074 D01 DTS Meas Guidance v04

FCC Part 15.247,Subpart C RSS-247 Issue 2				
Standard Section	Test Item	Judgment	Remark	
15.207 RSS-Gen Issue 5 April 2018	Conducted Emission	PASS		
15.247 (a)(2) RSS-247 Issue 2, February 2017	6dB&99% Bandwidth	PASS		
15.247 (b)(3) RSS-247 Issue 2, February 2017 (5.4)	Output Power	PASS		
15.247 (c) RSS-247 Issue 2, February 2017 (5.5)	Radiated Spurious Emission	PASS		
15.247 (d) RSS-247 Issue 2, February 2017 (5.5)	Conducted Spurious & Band Edge Emission	PASS		
15.247 (e) RSS-247 Issue 2, February 2017	Power Spectral Density	PASS		
15.205	Restricted Band Edge Emission	PASS		
Part 15.247(d)/part 15.209(a) RSS-247 Issue 2, February 2017	Band Edge Emission	PASS		
15.203 RSS-Gen Issue 5 April 2018	Antenna Requirement PAS			

NOTE:

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

(2) All tests are according to ANSI C63.10-2013

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### 1.1 TEST FACTORY

Shenzhen STS Test Services Co., Ltd. Add. : 1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road, Fuyong Street, Bao'an District, Shenzhen, Guangdong, China CNAS Registration No.: L7649; FCC Registration No.: 625569 IC Registration No.: 12108A; 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 approximately 95 %  $^{\circ}$ 

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No.	Item	Uncertainty
1	Conducted Emission (9KHz-150KHz)	±2.88dB
2	Conducted Emission (150KHz-30MHz)	±2.67dB
3	RF power,conducted	±0.71dB
4	Spurious emissions, conducted	±0.63dB
5	All emissions, radiated (9KHz-30MHz)	±3.02dB
6	All emissions, radiated (30MHz-200MHz)	±3.80dB
7	All emissions,radiated (200MHz-1000MHz)	±3.97dB
8	All emissions,radiated(>1G)	±3.03dB



# 2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product Name	Wireless Smart Audio Module		
Trade Name	Linkplay		
Model Name	A88		
Series Model	A88-2		
Model Difference	The shipping package labels are different.		
Product Description	The EUT is a Wireless Smart Audio ModuleOperation Frequency:2402~2480 MHzModulation Type:GFSKRadio TechnologyBLENumber Of Channel40Antenna Designation:Please see Note 3.Antenna Gain (dBi)1.43 dBi		
Channel List	Please refer to the Note 2.		
Power Rating	DC 5V		
Hardware version number	V04		
Software version number	WMB20170414		
Radio Hardware version	MPLY.LR9.W1444,MD.LWTG.MP.V79.P4		
Radio Software version	SC6531_W13.04.05_Release		
Test Software	3.18.19		
RF Power Setting TEST Software (power class)	(1)2.4 GHz:GFSK(1Mbps):-6.5		
Connecting I/O Port(s)	Please refer to the User's Manual		

Note:

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



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/	

	Channel List						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequenc y (MHz)
37	2402	09	2422	18	2442	28	2462
00	2404	10	2424	19	2444	29	2464
01	2406	38	2426	20	2446	30	2466
02	2408	11	2428	21	2448	31	2468
03	2410	12	2430	22	2450	32	2470
04	2412	13	2432	23	2452	33	2472
05	2414	14	2434	24	2454	34	2474
06	2416	15	2436	25	2456	35	2476
07	2418	16	2438	26	2458	36	2478
08	2420	17	2440	27	2460	39	2480

### 3.

### Table for Filed Antenna

Ar	nt.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1		Linkplay	A88	PIFA Antenna	N/A	1.43	BLE ANT



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# 2.2 DESCRIPTION OF TEST MODES

For conducted test items and radiated spurious emissions

Each of these EUT operation mode(s) or test configuration mode(s) mentioned below was evaluated respectively.

Worst Mode	Description	Data/Modulation
Mode 1	TX CH37(2402MHz)	1 MHz/GFSK
Mode 2	TX CH17(2440MHz)	1 MHz/GFSK
Mode 3	TX CH39(2480MHz)	1 MHz/GFSK

Note:

(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

(2) We have be tested for all avaiable U.S. voltage and frequencies(For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V/60Hz is shown in the report

(3) Controlled using a bespoke application on the laptop PC supplied by the customer. The application was used to enable a continuous transmission mode and to select the test channels, data rates and modulation schemes as required.

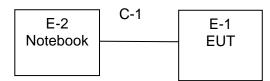
### For AC Conducted Emission

	Test Case				
	AC Conducted Emission	Mode 4 : Keeping BT TX			
L	Emission				

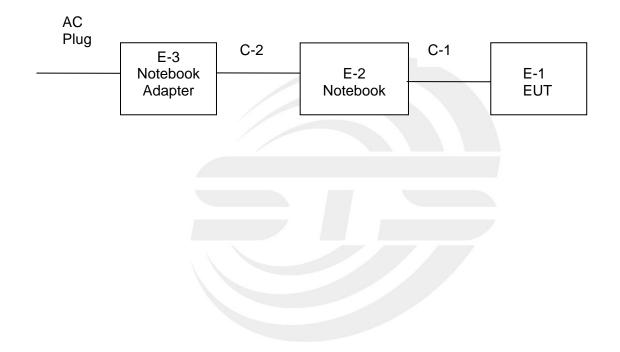


# 2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

# Radiated Spurious Emission Test



# **Conduction Test Set**



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# 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.	Serial No.	Note
E-2	Notebook	HP	500-320cx	N/A	N/A
E-3	Notebook Adapter	HP	HSTNN-CA15	N/A	N/A

Item	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable	NO	100cm	N/A
C-2	DC Cable	NO	110cm	N/A

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".



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# 2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

### Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until		
EMI Test Receiver	R&S	ESW	101535	2017.06.01	2018.05.31		
Bilog Antenna	Bilog Antenna TESEQ		34678	2017.11.02	2018.11.01		
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-1343	2017.10.27	2018.10.26		
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	N/A	2018.03.11	2019.03.10		
Temperature & Humitidy	HH660	Mieo	N/A	2017.10.15	2018.10.14		
Temperature & Humitidy	HH660	Mieo	N/A	2017.10.15	2018.10.14		
Pre-mplifier (0.1M-3GHz)	EM	EM330	60538	2018.03.11	2019.03.10		
PreAmplifier (1G-26.5GHz)	Agilent	8449B	60538	2017.10.15	2018.10.14		
Passive Loop (9K30MHz)	ZHNAN	ZN3090C	16035	2018.03.11	2019.03.10		
Low frequency cable	EM	R01	N/A	2018.03.11	2019.03.10		
Low frequency cable	EM	R06	N/A	2018.03.11	2019.03.10		
High frequency cable	SCHWARZBECK	R04	N/A	2018.03.11	2019.03.10		
High frequency cable	SCHWARZBECK	R02	N/A	2018.03.11	2019.03.10		
Semi-anechoic chamber	Changling	966	N/A	2017.10.15	2018.10.14		
trun table	EM	SC100_1	60531	N/A	N/A		
Antnna mast	EM	SC100	N/A	N/A	N/A		
Max-full Antenna Corp	MF	MFA-440H	N/A	N/A	N/A		

# Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2017.10.15	2018.10.14
LISN	R&S	ENV216	101242	2017.10.15	2018.10.14
conduction Cable	EM	C01	N/A	2018.03.11	2019.03.10
Temperature & Humitidy	Mieo	HH660	N/A	2017.10.15	2018.10.14



### **RF** Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
USB RF power sensor	DARE	RPR3006W	15100041SNO03	2017.10.15	2018.10.14
Power Meter	R&S	NRP	100510	2017.10.15	2018.10.14
Spectrum Analyzer	Agilent	N9020A	MY51110105	2018.03.08	2019.03.07
Signal Analyzer	Agilent	N9020A	MY49100060	2017.10.15	2018.10.14



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### 3. EMC EMISSION TEST

# 3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

operating frequency band. In case the emission fall within the restricted band specified on Part 207(a) and RSS-Gen Issue 5 limit in the table below has to be followed.

FREQUENCY (MHz)	Conducted Emission limit (dBuV)		
FREQUENCT (MILZ)	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	
0.50 -5.0	56.00	46.00	
5.0 -30.0	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		

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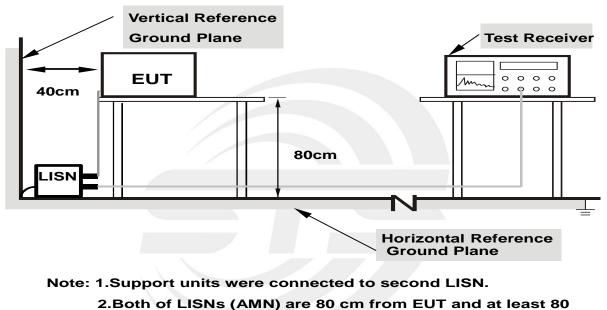
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# 3.2 TEST PROCEDURE

- 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. 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.



### 3.3 TEST SETUP

### 3.4 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.

from other units and other metal planes



# 3.5 TEST RESULTS

Temperature:	<b>24</b> ℃	Relative Humidity:	60%
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 4		

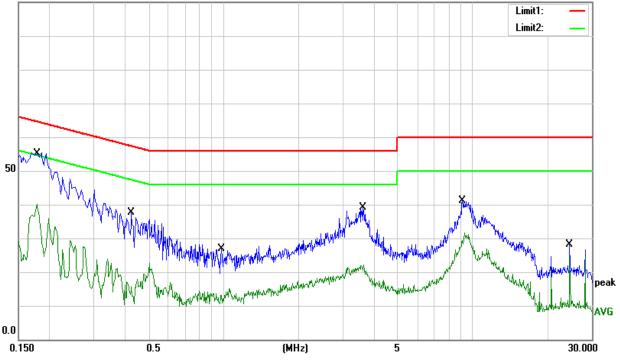
Frequency	Reading	Correct	Result	Limit	Margin	Domork
(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	Remark
0.1785	44.98	9.78	54.76	64.56	-9.80	QP
0.1785	30.47	9.78	40.25	54.56	-14.31	AVG
0.4260	27.57	10.03	37.60	57.33	-19.73	QP
0.4260	5.63	10.03	15.66	47.33	-31.67	AVG
0.9820	16.98	9.80	26.78	56.00	-29.22	QP
0.9820	3.24	9.80	13.04	46.00	-32.96	AVG
3.6060	29.30	9.82	39.12	56.00	-16.88	QP
3.6060	10.46	9.82	20.28	46.00	-25.72	AVG
9.0980	31.03	10.11	41.14	60.00	-18.86	QP
9.0980	18.17	10.11	28.28	50.00	-21.72	AVG
24.4620	18.05	10.19	28.24	60.00	-31.76	QP
24.4620	14.62	10.19	24.81	50.00	-25.19	AVG

# Remark:

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

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

100.0 dBuV



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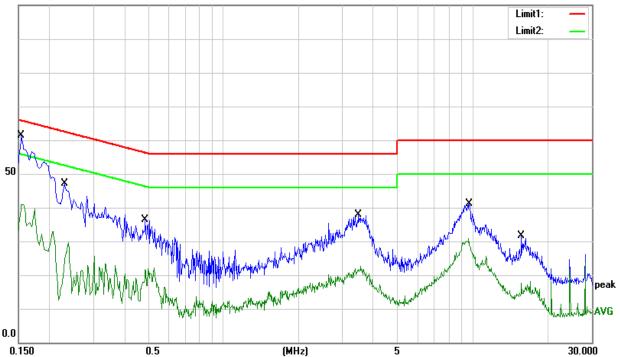
Temperature:	<b>24</b> ℃	Relative Humidity:	60%
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 4		

Frequency	Reading	Correct	Result	Limit	Margin	Domork
(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	Remark
0.1540	51.50	9.79	61.29	65.78	-4.49	QP
0.1540	31.09	9.79	40.88	55.78	-14.90	AVG
0.2300	37.24	9.91	47.15	62.45	-15.30	QP
0.2300	15.60	9.91	25.51	52.45	-26.94	AVG
0.4860	26.23	10.03	36.26	56.24	-19.98	QP
0.4860	11.35	10.03	21.38	46.24	-24.86	AVG
3.4820	28.15	9.82	37.97	56.00	-18.03	QP
3.4820	11.68	9.82	21.50	46.00	-24.50	AVG
9.6580	31.02	10.17	41.19	60.00	-18.81	QP
9.6580	18.49	10.17	28.66	50.00	-21.34	AVG
15.6940	21.37	10.27	31.64	60.00	-28.36	QP
15.6940	4.46	10.27	14.73	50.00	-35.27	AVG

### Remark:

All readings are Quasi-Peak and Average values.
 Margin = Result (Result = Reading + Factor )–Limit

100.0 dBuV



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# 4. RADIATED EMISSION MEASUREMENT

# 4.1 RADIATED EMISSION LIMITS

in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) and RSS-247 Issue 2 limit in the table and according to ANSI C63.10-2013 below has to be followed.

### LIMITS OF RADIATED EMISSION MEASUREMENT (Frequency Range 9kHz-1000MHz)

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(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)	(dBuV/m) (at 3M)		
	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

### For Radiated Emission

Spectrum Parameter	Setting	
Attenuation	Auto	
Detector	Peak	
Start Frequency	1000 MHz(Peak/AV)	
Stop Frequency	10th carrier hamonic(Peak/AV)	
RB / VB (emission in restricted		
band)	1 MHz / 3 MHz	

### For Band edge

Spectrum Parameter	Setting	
Detector	Peak	
	Lower Band Edge: 2300 to 2403 MHz	
Start/Stop Frequency	Upper Band Edge: 2479 to 2500 MHz	
RB / VB (emission in restricted band)	1 MHz / 3 MHz	

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Receiver Parameter	Setting
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

### 4.2 TEST PROCEDURE

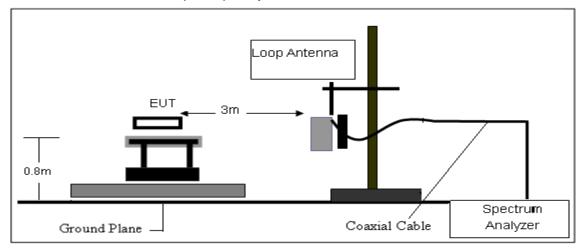
- a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 meters(above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. 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.

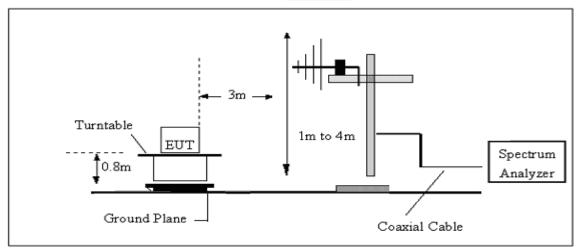


# 4.3 TEST SETUP

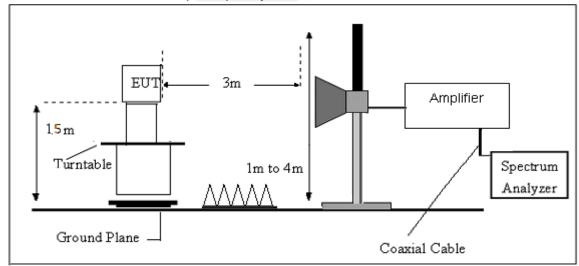
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



# 4.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

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# 4.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG Where FS = Field Strength CL = Cable Attenuation Factor (Cable Loss) RA = Reading Amplitude AG = Amplifier Gain AF = Antenna Factor

For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

Factor=AF+CL-AG



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# 4.6 TEST RESULTS

### (Between 9KHz - 30 MHz)

Temperature:	<b>24</b> ℃	Relative Humidtity:	60%
Test Voltage:	DC 5V	Polarization:	
Test Mode:	TX Mode		

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				PASS
				PASS

### Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB); Limit line = specific limits(dBuv) + distance extrapolation factor.





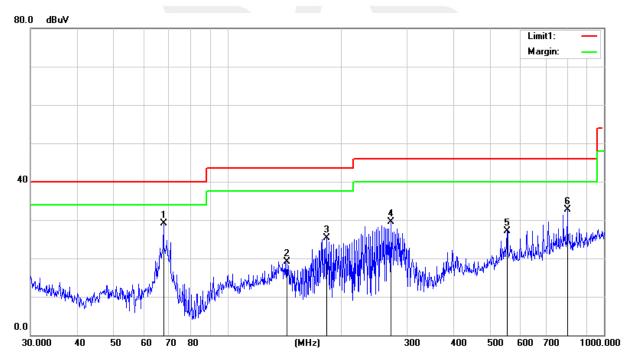
# (30MHz -1000MHz)

Temperature:	<b>24.5</b> ℃	Relative Humidity:	63%	
Test Voltage:	DC 5V	Phase:	Horizontal	
Test Mode:	Mode1/2/3(Mode 3-1M worst mode)			

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
67.6751	53.35	-24.16	29.19	40.00	-10.81	QP
143.8295	36.86	-17.69	19.17	43.50	-24.33	QP
183.2005	44.91	-19.70	25.21	43.50	-18.29	QP
271.3246	45.11	-15.52	29.59	46.00	-16.41	QP
552.8832	33.83	-6.71	27.12	46.00	-18.88	QP
798.9797	36.18	-3.45	32.73	46.00	-13.27	QP

### Remark:

1. Margin = Result (Result = Reading + Factor )–Limit





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Report No.: STS1804130W08

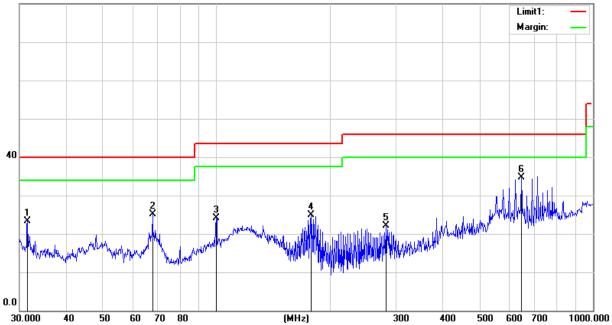
Temperature:	24.5 °C	Relative Humidity:	63%		
Test Voltage:	DC 5V	Phase:	Vertical		
Test Mode:	Mode1/2/3(Mode 3-1M worst mode)				

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
31.5094	35.27	-11.96	23.31	40.00	-16.69	QP
67.6751	49.20	-24.16	25.04	40.00	-14.96	QP
99.8777	43.36	-19.20	24.16	43.50	-19.34	QP
178.1326	44.31	-19.42	24.89	43.50	-18.61	QP
281.9945	37.84	-15.72	22.12	46.00	-23.88	QP
645.1195	41.00	-6.33	34.67	46.00	-11.33	QP

#### Remark:

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

#### 80.0 dBuV





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Report No.: STS1804130W08

# (1GHz-25GHz)Restricted band and Spurious emission Requirements

# Low Channel

				Antenna	Corrected	Emission				
Frequency	Reading	Amplifier	Loss	Factor	Factor	Level	Limits	Margin	Detector	
(MHz)	(dBµV)	( <b>dB</b> )	(dB)	( <b>dB/m</b> )	( <b>dB</b> )	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
	Low Channel (2402 MHz)									
3264.84	48.27	44.70	6.70	28.20	-9.80	38.47	74.00	-35.53	PK	Vertical
3264.84	38.60	44.70	6.70	28.20	-9.80	28.80	54.00	-25.20	AV	Vertical
3264.62	49.12	44.70	6.70	28.20	-9.80	39.32	74.00	-34.68	PK	Horizontal
3264.62	38.30	44.70	6.70	28.20	-9.80	28.50	54.00	-25.50	AV	Horizontal
4804.36	58.20	44.20	9.04	31.60	-3.56	54.64	74.00	-19.36	PK	Vertical
4804.36	39.24	44.20	9.04	31.60	-3.56	35.68	54.00	-18.32	AV	Vertical
4804.38	59.01	44.20	9.04	31.60	-3.56	55.45	74.00	-18.55	PK	Horizontal
4804.38	38.73	44.20	9.04	31.60	-3.56	35.17	54.00	-18.83	AV	Horizontal
5359.87	45.87	44.20	9.86	32.00	-2.34	43.53	74.00	-30.47	PK	Vertical
5359.87	37.42	44.20	9.86	32.00	-2.34	35.08	54.00	-18.92	AV	Vertical
5359.75	45.25	44.20	9.86	32.00	-2.34	42.91	74.00	-31.09	PK	Horizontal
5359.75	38.18	44.20	9.86	32.00	-2.34	35.84	54.00	-18.16	AV	Horizontal
7205.95	51.53	43.50	11.40	35.50	3.40	54.93	74.00	-19.07	PK	Vertical
7205.95	32.55	43.50	11.40	35.50	3.40	35.95	54.00	-18.05	AV	Vertical
7205.69	51.46	43.50	11.40	35.50	3.40	54.86	74.00	-19.14	PK	Horizontal
7205.69	32.78	43.50	11.40	35.50	3.40	36.18	54.00	-17.82	AV	Horizontal



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### Report No.: STS1804130W08

# Mid Channel

				Antenna	Corrected	Emission				
Frequency	Reading	Amplifier	Loss	Factor	Factor	Level	Limits	Margin	Detector	
(MHz)	(dBµV)	(dB)	(dB)	( <b>dB/m</b> )	( <b>dB</b> )	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
	Mid Channel (2440 MHz)									
3264.68	48.60	44.70	6.70	28.20	-9.80	38.80	74.00	-35.20	PK	Vertical
3264.68	38.09	44.70	6.70	28.20	-9.80	28.29	54.00	-25.71	AV	Vertical
3264.85	48.35	44.70	6.70	28.20	-9.80	38.55	74.00	-35.45	PK	Horizontal
3264.85	39.27	44.70	6.70	28.20	-9.80	29.47	54.00	-24.53	AV	Horizontal
4880.33	59.46	44.20	9.04	31.60	-3.56	55.90	74.00	-18.10	PK	Vertical
4880.33	39.43	44.20	9.04	31.60	-3.56	35.87	54.00	-18.13	AV	Vertical
4880.32	58.98	44.20	9.04	31.60	-3.56	55.42	74.00	-18.58	PK	Horizontal
4880.32	39.27	44.20	9.04	31.60	-3.56	35.71	54.00	-18.29	AV	Horizontal
5359.76	46.27	44.20	9.86	32.00	-2.34	43.93	74.00	-30.07	PK	Vertical
5359.76	38.07	44.20	9.86	32.00	-2.34	35.73	54.00	-18.27	AV	Vertical
5359.74	46.14	44.20	9.86	32.00	-2.34	43.80	74.00	-30.20	PK	Horizontal
5359.74	37.51	44.20	9.86	32.00	-2.34	35.17	54.00	-18.83	AV	Horizontal
7310.69	50.78	43.50	11.40	35.50	3.40	54.18	74.00	-19.82	PK	Vertical
7310.69	32.61	43.50	11.40	35.50	3.40	36.01	54.00	-17.99	AV	Vertical
7310.89	51.44	43.50	11.40	35.50	3.40	54.84	74.00	-19.16	PK	Horizontal
7310.89	33.36	43.50	11.40	35.50	3.40	36.76	54.00	-17.24	AV	Horizontal

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# High Channel

riigh onamioi										
				Antenna	Corrected	Emission				
Frequency	Reading	Amplifier	Loss	Factor	Factor	Level	Limits	Margin	Detector	
(MHz)	(dBµV)	( <b>dB</b> )	(dB)	( <b>dB/m</b> )	( <b>dB</b> )	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
	High Channel (2480 MHz)									
3264.74	48.56	44.70	6.70	28.20	-9.80	38.76	74.00	-35.24	PK	Vertical
3264.74	38.25	44.70	6.70	28.20	-9.80	28.45	54.00	-25.55	AV	Vertical
3264.59	47.85	44.70	6.70	28.20	-9.80	38.05	74.00	-35.95	PK	Horizontal
3264.59	38.47	44.70	6.70	28.20	-9.80	28.67	54.00	-25.33	AV	Horizontal
4960.33	58.76	44.20	9.04	31.60	-3.56	55.20	74.00	-18.80	PK	Vertical
4960.33	39.19	44.20	9.04	31.60	-3.56	35.63	54.00	-18.37	AV	Vertical
4960.55	58.80	44.20	9.04	31.60	-3.56	55.24	74.00	-18.76	PK	Horizontal
4960.55	38.75	44.20	9.04	31.60	-3.56	35.19	54.00	-18.81	AV	Horizontal
5359.80	46.04	44.20	9.86	32.00	-2.34	43.70	74.00	-30.30	PK	Vertical
5359.80	38.23	44.20	9.86	32.00	-2.34	35.89	54.00	-18.11	AV	Vertical
5359.58	46.11	44.20	9.86	32.00	-2.34	43.77	74.00	-30.23	PK	Horizontal
5359.58	37.49	44.20	9.86	32.00	-2.34	35.15	54.00	-18.85	AV	Horizontal
7439.98	50.80	43.50	11.40	35.50	3.40	54.20	74.00	-19.80	PK	Vertical
7439.98	33.45	43.50	11.40	35.50	3.40	36.85	54.00	-17.15	AV	Vertical
7439.91	51.10	43.50	11.40	35.50	3.40	54.50	74.00	-19.50	PK	Horizontal
7439.91	33.33	43.50	11.40	35.50	3.40	36.73	54.00	-17.27	AV	Horizontal
Noto										

Note:

1) Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Emission Level = Reading + Factor

2) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.



Report No.: STS1804130W08

# 4.6 TEST RESULTS (Restricted Bands Requirements)

				Antenna	Corrected	Emission				
Frequency	Reading	Amplifier	Loss	Factor	Factor	Level	Limits	Margin	Detector	
(MHz)	(dBµV)	( <b>dB</b> )	(dB)	( <b>dB/m</b> )	( <b>dB</b> )	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
					GFSK					
2390.00	67.32	43.80	4.91	25.90	-12.99	54.33	74.00	-19.67	PK	Vertical
2390.00	54.00	43.80	4.91	25.90	-12.99	41.01	54.00	-12.99	AV	Vertical
2390.00	69.20	43.80	4.91	25.90	-12.99	56.21	74.00	-17.79	PK	Horizontal
2390.00	52.59	43.80	4.91	25.90	-12.99	39.60	54.00	-14.40	AV	Horizontal
2483.50	70.38	43.80	5.12	25.90	-12.78	57.60	74.00	-16.40	PK	Vertical
2483.50	52.96	43.80	5.12	25.90	-12.78	40.18	54.00	-13.82	AV	Vertical
2483.50	70.02	43.80	5.12	25.90	-12.78	57.24	74.00	-16.76	PK	Horizontal
2483.50	52.99	43.80	5.12	25.90	-12.78	40.21	54.00	-13.79	AV	Horizontal

Low measurement frequencies is range from 2300 to 2403 MHz, high measurement frequencies is range from 2479 to 2500 MHz.

Only show the worst point data of the emissions in the frequency 2300-2403 MHz and 2479-2500 MHz.



Shenzhen STS Test Services Co., Ltd.



# 5. CONDUCTED SPURIOUS & BAND EDGE EMISSION

### 5.1 REQUIREMENT

According to FCC section 15.247(d) and RSS-247 Issue 2, in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

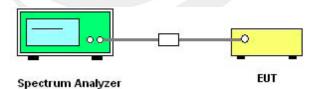
### 5.2 TEST PROCEDURE

Spectrum Parameter	Setting			
Detector	Peak			
Start/Stop Frequency	30 MHz to 10th carrier harmonic			
RB / VB (emission in restricted band)	100 KHz/300 KHz			
Trace-Mode:	Max hold			

### For Band edge

Spectrum Parameter	Setting			
Detector	Peak			
Start/Stop Eraguanay	Lower Band Edge: 2300 – 2403 MHz			
Start/Stop Frequency	Upper Band Edge: 2479 – 2500 MHz			
RB / VB (emission in restricted band)	100 KHz/300 KHz			
Trace-Mode:	Max hold			

### 5.3 TEST SETUP



The EUT which is powered by the Battery, is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. Make the measurement with the spectrum analyzer's resolution bandwidth(RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

### 5.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



# 5.5 TEST RESULTS

Temperature:	<b>25</b> ℃	Relative Humidity:	50%
Test Voltage:	DC 5V		TX Mode /CH37, CH17, CH39

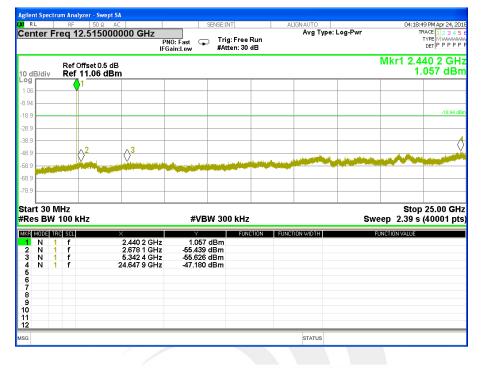
# 37 CH

gilent Spect	rum Ana RE	l <mark>iyzer - Swept S</mark> 50 Ω AC			SENSE:INT		IGN AUTO		04:15	:07 PM Apr 24, 20
		12.515000	000 GHz	PNO: Fast Gain:Low	TrimEnse	Run	Avg Type:	Log-Pwr		IRACE 1 2 3 4 5 TYPE M WARW DET P P P P
0 dB/div		Offset 0.5 dB 11.57 dBn							Mkr1 2.4 1	l02 2 GH .574 dBi
og 1.57		1								
8.4										-18.43 d
8.4										
8.4										
B.4				3	- In the second second					
B.4										
8.4										
tart 30 I Res BW		kHz		#VB	W 300 kHz			Sw	Stop eep 2.39 s	25.00 GH (40001 pt
KR MODE T	RC SCL		× 2.402 2 GHz	Y 1.574		CTION FUNCT	TION WIDTH	F	UNCTION VALUE	
2 N 3 N	1 f 1 f 1 f 1 f		2.402 2 GHz 3.256 7 GHz 7.506 0 GHz 24.706 0 GHz	-55.831 -56.663 -47.679	dBm dBm					
6 7										
8 9 0										
1										
G							STATUS			

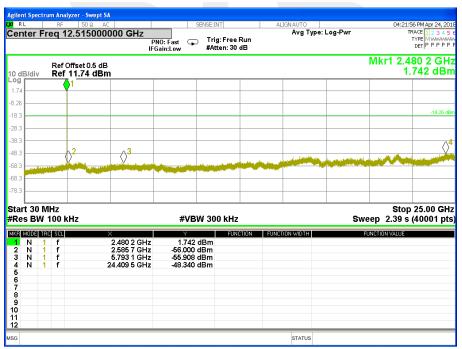
Shenzhen STS Test Services Co., Ltd.



#### 17 CH



39 CH



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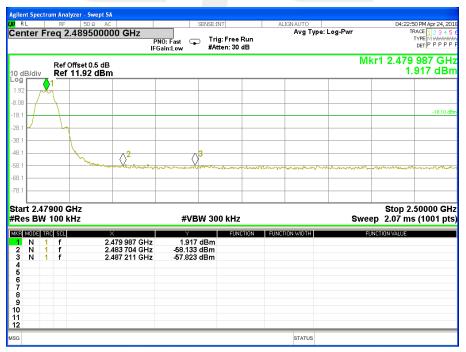


For Band edge

PNO: Fast Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.401 9		RF 5	50 Ω AC		SENSE:INT	ALIGN AUTO		04:16:01 PM Apr 24,3
Algorithm       Ref 13.31 dBm       3.3         9	nter Fi	req 2.351	500000 GHz			Avg Type: L	.og-Pwr	TRACE 1 2 3 4 TYPE M WWW DET P P P F
31     33     34     35       69     36     36     36       69     37     36     36       67     37     36     36       77     37     36     36       78     37     36     36       77     37     37     37       77     37     37     37       78     37     37     37       77     37     37     37       78     37     37     37       79     37     37     37       79     37     37     37       70     37     37     37       71     37     37     37       71     37     37     37       72     37     37     37       73     37     37     37       74     37     37     37       75     37     37     37       76     37     37     37       77     37     37     37       77     37     37     37       77     37     37     37       77     37     37     37       78     1     1     1							Mkr1 2	2.401 970 G 3.309 dE
Image: state of the s	1							
X         X         Y         FUNCTION         FUNCTION VALUE           N         1         f         2.399 807 GHz         -555.105 dBm         -								
X         X         X         Y         FUNCTION         FUNCTION VALUE           N         1         f         2.399 807 GHz         -55.105 dBm         - <td>· —</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-16.69</td>	· —							-16.69
Ministry	-							
X         Y         FUNCTION         FUNCTION         FUNCTION WIDTH         FUNCTION WIDT	· —							
X         X         Y         FUNCTION         FUNCTION NUMBER         Stop 2.41           N         1         f         2.401 970 GHz         3.309 dBm         FUNCTION         FUNCTION NUMBER         FUNCTION NUMER         FUNCTION NUMBER         FUNCT	· —							/
X         X         Y         FUNCTION         FUNCTION VIDIT								
X         Y         Function         Function width         Function value           N         1         f         2.401 970 GHz         3.309 dBm         Function         Function value           N         1         f         2.399 GHz         57.526 dBm         55.105 dBm           N         1         f         2.399 807 GHz         55.105 dBm         55.105 dBm		acer cyclosed with a statest	and the second second and the	A Maria and a construction of the second sec	We want the state of the state	and a second descent of the second seco	oldin from a selection of and	Charlen and and and an
es BW 100 kHz #VBW 300 kHz Sweep 9.87 ms ( 20002 1760 Set X FUNCTION FUNCTION WIDTH FUNCTION VALUE N 1 f 2.401 970 GHz 3.309 dBm N 1 f 2.394 039 GHz 57.526 dBm N 1 f 2.399 807 GHz -55.105 dBm	·							
es BW 100 kHz         #VBW 300 kHz         Sweep 9.87 ms (           N         1         f         2.401 970 GHz         3.309 dBm           N         1         f         2.394 039 GHz         57.526 dBm           N         1         f         2.399 037 GHz         -57.526 dBm           N         1         f         2.399 807 GHz         -55.105 dBm	L	000 011-						to a 0 10000 0
N 1 f 2.401 970 GHz 3.309 dBm N 1 f 2.394 039 GHz 57.526 dBm N 1 f 2.399 807 GHz 55.105 dBm				#VB	W 300 kHz			
N 1 f 2.394 039 GHz 57.526 dBm N 1 f 2.399 807 GHz 55.105 dBm		RC SCL				FUNCTION WIDTH	FUNCTION	VALUE
	N 1	f	2.394 039 GH	z -57.526	dBm			
	N 1							
	N 1							
	N 1							
	N 1							

37 CH

39 CH



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# 6. POWER SPECTRAL DENSITY TEST

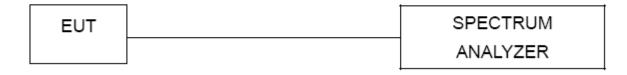
### 6.1 APPLIED PROCEDURES / LIMIT

FCC Part 15.247,Subpart C RSS-247 Issue 2							
Section Test Item Limit Frequency Range (MHz) Result							
15.247(e) RSS-247 lssue 2	Power Spectral Density	≤8 dBm (RBW≥3KHz)	2400-2483.5	PASS			

### 6.2 TEST PROCEDURE

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. Set the RBW to: 100 kHz  $\ge$  RBW  $\ge$  3 kHz.
- 4. Set the VBW  $\geq$  3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

### 6.3 TEST SETUP



### 6.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



6.5 TEST RESULTS

Temperature:	<b>25</b> ℃	Relative Humidity:	60%
Test Voltage:	DC 5V		TX Mode /CH37, CH17, CH39

Frequency	Power Density (dBm/3kHz)	Limit (dBm/3KHz)	Result
2402 MHz	-10.364	≤8	PASS
2440 MHz	-10.957	≤8	PASS
2480 MHz	-11.736	≤8	PASS

# TX CH37



Shenzhen STS Test Services Co., Ltd.

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 Tel: + 86-755
 3688
 6287
 Http://www.stsapp.com
 E-mail: sts@stsapp.com



### TX CH17



### **TX CH39**



# Shenzhen STS Test Services Co., Ltd.



# 7. BANDWIDTH TEST

# 7.1 APPLIED PROCEDURES / LIMIT

FCC Part 15.247,Subpart C					
	RSS-247 Issue 2				
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247(a)(2) RSS-247 Issue 2	Bandwidth	>= 500KHz (6dB&99% bandwidth)	2400-2483.5	PASS	

### 7.2 TEST PROCEDURE

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW $\ge$ RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be  $\ge$ 6 dB.

### 7.3 TEST SETUP



### 7.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



# 7.5 TEST RESULTS

Temperature:	<b>25</b> ℃	Relative Humidity:	60%
Test Voltage:	DC 5V		TX Mode /CH37, CH17, CH39

Frequency	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Channel Separation (MHz)	Result
2402 MHz	0.715	1.0818	>=500KHz	PASS
2440 MHz	0.711	1.0820	>=500KHz	PASS
2480 MHz	0.713	1.0823	>=500KHz	PASS

# TX CH 37

gilent Spectrum Analyzer - Occupie RL RF 50 Q A		SENSE:INT	ALIGNAUTO	04:14:27 PM Apr 24, 20
Center Freq 2.402000		Center Freq: 2.402000	000 GHz	Radio Std: None
		Trig: Free Run #Atten: 30 dB	Avg Hold:>10/10	Radio Device: BTS
Ref Offset 0.5 0 dB/div Ref 20.00 d				
0.0				
00				
.0				
.0				
0.0				
0.0				
10				
enter 2.402 GHz Res BW 100 kHz		#VBW 300 ki	Hz	Span 2 MH Sweep 1 m
Occupied Bandwi	dth			
	1.0818 MHz			
Transmit Freq Error	-12.295 kHz	OBW Power	99.00 %	
x dB Bandwidth	714.5 kHz	x dB	-6.00 dB	
i i			STATUS	

Shenzhen STS Test Services Co., Ltd.



# TX CH 17



# TX CH 39





Report No.: STS1804130W08

# 8. PEAK OUTPUT POWER TEST

# 8.1 APPLIED PROCEDURES / LIMIT

FCC Part 15.247,Subpart C				
RSS-247 Issue 2				
Section Test Item Limit Frequency Range (MHz) Result				
15.247(b)(3) RSS 247 Issue 2	Output Power	1 watt or 30dBm	2400-2483.5	PASS

### 8.2 TEST PROCEDURE

### a. The EUT was directly connected to the Power Meter

# 8.3 TEST SETUP



# **8.4 EUT OPERATION CONDITIONS**

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



8.5 TEST RESULTS

Temperature:	<b>25</b> ℃	Relative Humidity:	60%
Test Voltage:	DC 5V		TX Mode /CH37, CH17, CH39

TX Mode					
Test Channel	Frequency	Conducted Output Power		LIMIT	
	(MHz)	Peak (dBm)	AVG (dBm)	dBm	
CH37	2402	4.45	3.48	30	
CH17	2440	6.51	5.54	30	
CH39	2480	8.71	7.69	30	



Shenzhen STS Test Services Co., Ltd.



# 9. ANTENNA REQUIREMENT

# 9.1 STANDARD REQUIREMENT

15.203 and RSS-Genlssue 5 requirement: For intentional device, according to 15.203 and RSS-Genlssue 5: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

# 9.2 EUT ANTENNA

The EUT antenna is PIFA Antenna. It comply with the standard requirement.



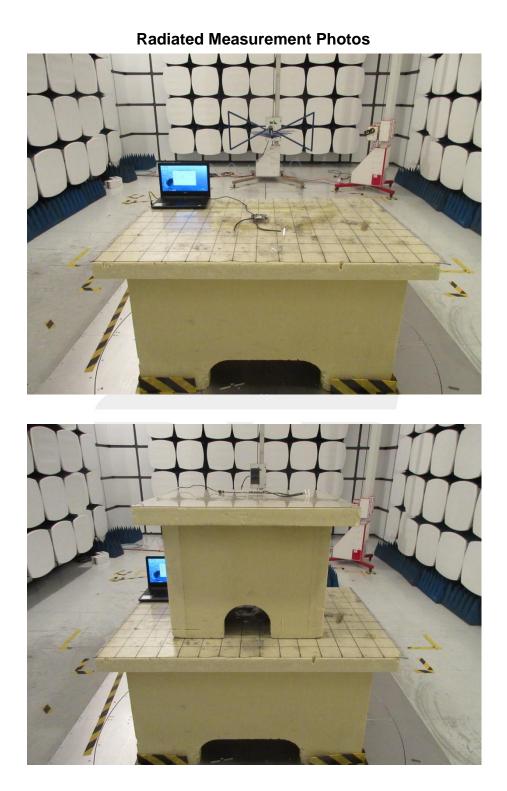
Shenzhen STS Test Services Co., Ltd.





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# **Conducted Measurement Photos**



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

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