

RADIO TEST REPORT

S T S

Report No.:STS2002010W04

Issued for

KINGTA TECHNOLOGY CO., LTD

4F, Building 2, HaoJingDa Science Park, Shangmugu, Shenzhen, China

Product Name:	Bluetooth Speaker		
Brand Name:	N/A		
Model Name:	Q18P		
Series Model:	Q18S, Q18C, Q18V, Q18M		
FCC ID:	N7KQ18P		
Test Standard:	FCC Part 15.247		

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TEST RESULT CERTIFICATION

Applicant's Name	KINGTA TECHNOLOGY CO., LTD
Address	4F, Building 2, HaoJingDa Science Park, Shangmugu, Shenzhen, China
Manufacture's Name	KINGTA TECHNOLOGY CO., LTD
Address	Floor 4, Building 9 & Floor 6, Building C, Futing , Zhucun, Guanlan, Longhua, Shenzhen, China
Product Description	
Product Name:	Bluetooth Speaker
Brand Name:	N/A
Model Name:	Q18P
SeriesModel	Q18S, Q18C, Q18V, Q18M
Test Standards	FCC Part15.247
Test Procedure:	ANSI C63.10-2013

This device described above has been tested by STS, 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.

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Date of Test

Date of receipt of test item:	06 Feb. 2020
Date (s) of performance of tests:	06 Feb. 2020 ~ 04 Mar. 2020
Date of Issue	04 Mar. 2020
Test Result	Pass

Testing Engineer

Technical Manager

(ChrisChen) he

(Sean she)



Authorized Signatory :

(Vita Li)

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Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	04 Mar. 2020	STS2002010W04	0W04 ALL Initial Issue	



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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards: KDB 558074 D01 15.247 Meas Guidance v05r02.

FCC Part15.247,Subpart C						
Standard Section	Judgment	Remark				
15.207	Conducted Emission	PASS				
15.247 (a)(2)	6dB Bandwidth	PASS				
15.247 (b)(3)	Output Power	PASS				
15.247 (c)	Radiated Spurious Emission	PASS				
15.247 (d)	Conducted Spurious & Band Edge Emission	PASS				
15.247 (e)	Power Spectral Density	PASS				
15.205	Restricted bands of operation	PASS				
Part 15.247(d)/part 15.209(a)	Band Edge Emission PASS					
15.203	Antenna Requirement	PASS				

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. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District,Bao'an District, Shenzhen, Guang Dong, China FCC test Firm Registration Number: 625569 IC test Firm Registration Number: 12108A A2LA Certificate No.: 4338.01

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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 %.

No.	Item	Uncertainty
1	RF output power, conducted	±0.68dB
2	Unwanted Emissions, conducted	±2.988dB
3	All emissions, radiated 30-1GHz	±6.7dB
4	All emissions, radiated1G-6GHz	±5.5dB
5	All emissions, radiated>6G	±5.8dB
6	Conducted Emission (9KHz-150KHz)	±4.43dB
7	Conducted Emission (150KHz-30MHz)	±5dB

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2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Bluetooth Speaker		
Trade Name	N/A		
Model Name	Q18P		
Series Model	Q18S, Q18C, Q18V	, Q18M	
Model Difference	Only different in mo	del name and colors	
	The EUT is a Blueto	ooth Speaker	
	Operation Frequency:	2402~2480 MHz	
	Modulation Type:	GFSK	
	Radio Technology:	BLE	
	Bluetooth Version:	5.0	
Product Description	Bluetooth		
	Configuration:	LE(support 1M PHY)	
	Number Of Channel:	40	
	Antenna Designation:	Please refer to the Note 3.	
	AntennaGain (dBi)	0 dBi	
Channel List	Please refer to the N	Note 2.	
Power Rating	Input: DC5V 2A		
Battery	Rated Voltage: 7.2V Charge Limit: 8.4V Capacity: 2000mAh		
Hardware version number	V1.6		
Software version number	V1.0		
Connecting I/O Port(s)	Please refer to the I	Note 1.	

Note:

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



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

3.

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	Q18P	РСВ	N/A	0 dBi	BLE ANT



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2.2 DESCRIPTION OF THE TEST MODES

Forconducted 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 CH00(2402MHz)	1 Mbps/GFSK
Mode 2	TX CH19(2440MHz)	1 Mbps/GFSK
Mode 3	TX CH39(2480MHz)	1 Mbps/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.

ForACConductedEmission

	Test Case
AC Conducted Emission	Mode 4 : Keeping BT TX

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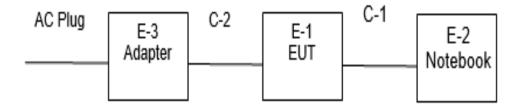
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2.3BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious EmissionTest



Conducted Emission Test



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2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND 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.

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
N/A	N/A	N/A	N/A	N/A	N/A

Necessary accessories

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
E-2	Notebook	DELL	VOSTRO.3800	N/A	N/A
E-3	Adapter	LITEON	PA-1650-86	N/A	N/A
C-1	USB Cable	N/A	100cm	N/A	N/A
C-1	DC Cable	N/A	110cm	N/A	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.

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2.5EQUIPMENTS LIST

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	
Test Receiver	R&S	ESCI	101427	2019.07.29	2020.07.28	
Signal Analyzer	Agilent	N9020A	MY51110105	2019.03.02 2020.02.29	2020.03.01 2021.02.28	
Active loop Antenna	ZHINAN	ZN30900C	16035	2018.03.11	2021.03.10	
Bilog Antenna	TESEQ	CBL6111D	34678	2017.11.02	2020.11.01	
Horn Antenna	SCHWARZBECK	BBHA 9120D(1201)	9120D-1343	2018.10.19	2021.10.18	
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	J211020657	2018.03.11	2021.03.10	
Pre-Amplifier(0.1M-3G Hz)	EM	EM330	060665	2019.10.09	2020.10.08	
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK201808090 1	2019.10.12	2020.10.11	
Temperature & Humidity	HH660	Mieo	N/A	2019.10.12	2020.10.11	
Turn table	EM	SC100_1	60531	N/A	N/A	
Antenna mast	EM	SC100	N/A	N/A	N/A	
Test SW	FARAD	EZ-EMC(Ver.STSLAB-03A1 RE)				

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2019.07.29	2020.07.28
LISN	R&S	ENV216	101242	2019.10.09	2020.10.08
LISN	EMCO	3810/2NM	23625	2019.10.09	2020.10.08
Temperature & Humidity	HH660	Mieo	N/A	2019.10.12	2020.10.11
Test SW	FARAD	EZ-EMC(Ver.STSLAB-03A1 CE)			

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
USB RF power sensor	DARE	RPR3006W	15100041SNO03	2019.10.09	2020.10.08
Signal Analyzer	Agilent	N9020A	MY49100060	2019.10.09	2020.10.08
Temperature & Humidity	HH660	Mieo	N/A	2019.10.12	2020.10.11
Test SW	FARAD	LZ-RF /LzRf-3A3			

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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) limit in the table below has to be followed.

FREQUENCY (MHz)	Conducted Emissionlimit (dBuV)		
FREQUENCT (MIDZ)	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		

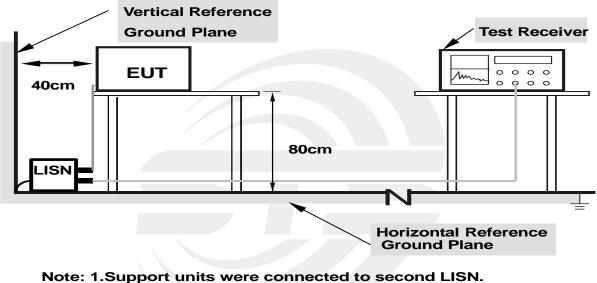
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3.2 TEST PROCEDURE

- 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

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.4EUT 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.



3.5TEST RESULTS

Temperature:	22.9(C)	Relative Humidity:	47%RH
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 4		

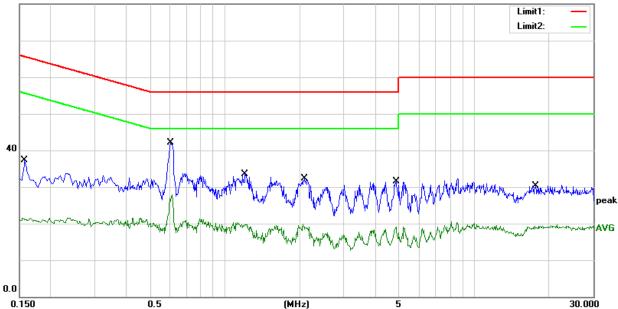
No.	Frequen cy	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(d B)	(dBuV)	(dBuV)	(dB)	
1	0.1580	17.45	19.79	37.24	65.57	-28.33	QP
2	0.1580	1.28	19.79	21.07	55.57	-34.50	AVG
3	0.6060	22.20	19.93	42.13	56.00	-13.87	QP
4	0.6060	6.19	19.93	26.12	46.00	-19.88	AVG
5	1.2060	13.78	19.80	33.58	56.00	-22.42	QP
6	1.2060	-0.18	19.80	19.62	46.00	-26.38	AVG
7	2.0900	12.46	19.79	32.25	56.00	-23.75	QP
8	2.0900	-0.76	19.79	19.03	46.00	-26.97	AVG
9	4.8660	11.63	19.85	31.48	56.00	-24.52	QP
10	4.8660	-1.66	19.85	18.19	46.00	-27.81	AVG
11	17.5860	9.98	20.35	30.33	60.00	-29.67	QP
12	17.5860	-1.74	20.35	18.61	50.00	-31.39	AVG

Remark:

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

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





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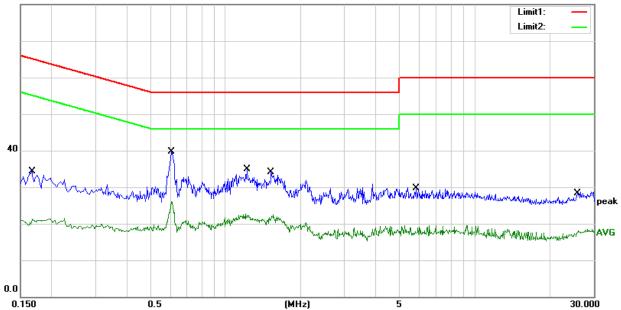
Temperature:	22.9(C)	Relative Humidity:	47%RH
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 4		

No.	Frequen cy	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(d B)	(dBuV)	(dBuV)	(dB)	
1	0.1668	14.46	19.79	34.25	65.12	-30.87	QP
2	0.1668	1.37	19.79	21.16	55.12	-33.96	AVG
3	0.6060	19.83	19.92	39.75	56.00	-16.25	QP
4	0.6060	6.14	19.92	26.06	46.00	-19.94	AVG
5	1.2220	15.16	19.82	34.98	56.00	-21.02	QP
6	1.2220	2.48	19.82	22.30	46.00	-23.70	AVG
7	1.5220	14.27	19.84	34.11	56.00	-21.89	QP
8	1.5220	2.20	19.84	22.04	46.00	-23.96	AVG
9	5.8100	9.82	19.90	29.72	60.00	-30.28	QP
10	5.8100	-2.47	19.90	17.43	50.00	-32.57	AVG
11	25.6020	7.29	20.31	27.60	60.00	-32.40	QP
12	25.8020	-2.55	20.32	17.77	50.00	-32.23	AVG

Remark:

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

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



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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) limit in the table and according to ANSI C63.10-2013below 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).

LIMITS OF RESTRICTED FREQUENCY BANDS

	-	-	-
FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			

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For Radiated Emission

Spectrum Parameter	Setting		
Attenuation	Auto		
Detector	Peak/QP/AV		
Start Frequency	9 KHz/150KHz(Peak/QP/AV)		
Stop Frequency	150KHz/30MHz(Peak/QP/AV)		
	200Hz (From 9kHz to 0.15MHz)/		
RB / VB (emission in restricted	9KHz (From 0.15MHz to 30MHz);		
band)	200Hz (From 9kHz to 0.15MHz)/		
	9KHz (From 0.15MHz to 30MHz)		

Spectrum Parameter	Setting	
Attenuation	Auto	
Detector	Peak/QP	
Start Frequency	30 MHz(Peak/QP)	
Stop Frequency	1000 MHz (Peak/QP)	
RB / VB (emission in restricted band)	120 KHz / 300 KHz	

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

For Restricted band

Spectrum Parameter	Setting		
Detector	Peak		
Stort/Stop Eroguopov	Lower Band Edge: 2310to 2410 MHz		
Start/Stop Frequency	Upper Band Edge: 2476to 2500 MHz		
	1 MHz / 3 MHz(Peak)		
RB / VB	1 MHz/1/T MHz(AVG)		

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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

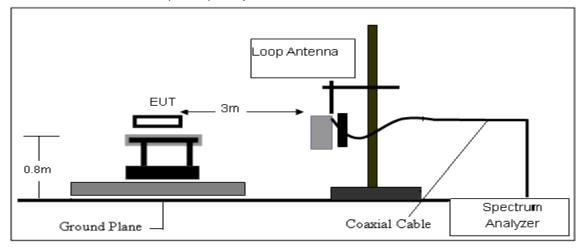
- a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz,and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 meters(above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the 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 testedand performed pretest to three orthogonal axis. The worst case emissions were reported.

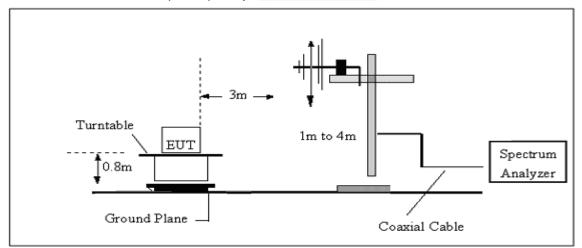


4.3 TEST SETUP

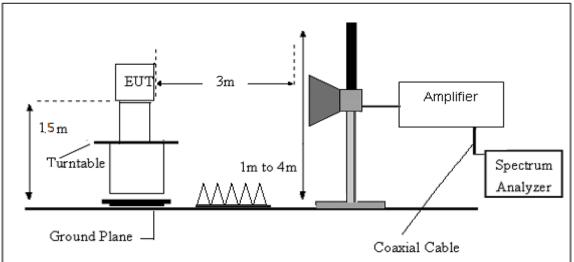
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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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4.6TEST RESULTS

(Between 9KHz - 30 MHz)

Temperature:	24.8(C)	Relative Humidtity:	52%RH
Test Voltage:	DC 7.2V	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.



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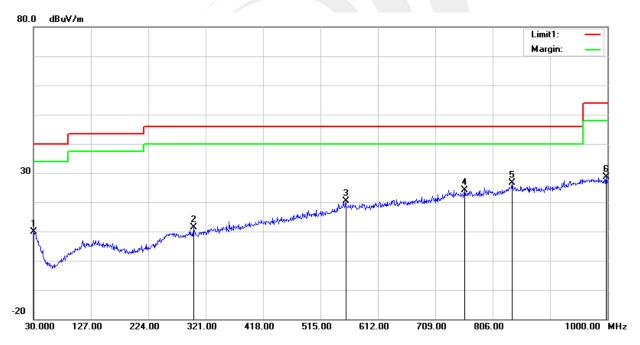
(30MHz-1000MHz)

Temperature:	24.8(C)	Relative Humidity:	52%RH			
Test Voltage:	DC 7.2V	Phase:	Horizontal			
Test Mode:	Mode 1/2/3 (Mode 3 worst mo	Mode 1/2/3 (Mode 3 worst mode)				

No.	Frequenc y	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/ m)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.9700	23.24	-13.35	9.89	40.00	-30.11	QP
2	300.6300	26.12	-14.79	11.33	46.00	-34.67	QP
3	557.6800	25.90	-5.55	20.35	46.00	-25.65	QP
4	758.4700	26.28	-2.17	24.11	46.00	-21.89	QP
5	838.9800	26.93	-0.39	26.54	46.00	-19.46	QP
6	998.0600	26.71	2.04	28.75	54.00	-25.25	QP

Remark:

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



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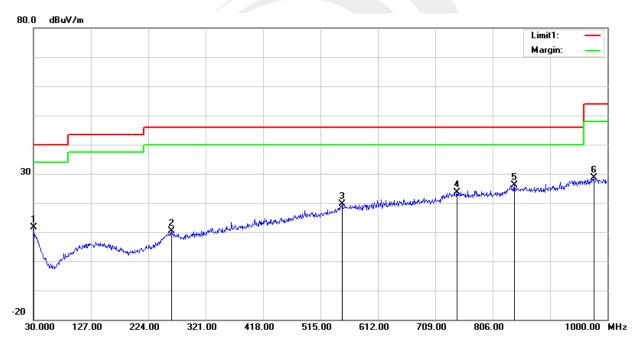
Page 25 of 44 Report No.: STS2002010W04

Temperature:	24.8(C)	Relative Humidity:	52%RH		
Test Voltage:	DC 7.2V	Phase:	Vertical		
Test Mode:	Mode 1/2/3 (Mode 3 worst mode)				

No.	Frequenc y	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/ m)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.0000	24.36	-12.85	11.51	40.00	-28.49	QP
2	263.7700	25.07	-14.75	10.32	46.00	-35.68	QP
3	551.8600	25.43	-5.72	19.71	46.00	-26.29	QP
4	745.8600	25.69	-2.14	23.55	46.00	-22.45	QP
5	842.8600	26.48	-0.46	26.02	46.00	-19.98	QP
6	976.7200	26.30	2.45	28.75	54.00	-25.25	QP

Remark:

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



Shenzhen STS Test Services Co., Ltd.



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Report No.: STS2002010W04

(1GHz-25GHz) Spurious emission Requirements

GFSK

Frequency	Meter Reading	Amplifier	Loss	Antenna Factor	Orrected Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
				Low C	hannel (2402	MHz)	•			
3264.86	61.03	44.70	6.70	28.20	-9.80	51.23	74.00	-22.77	PK	Vertical
3264.86	49.88	44.70	6.70	28.20	-9.80	40.08	54.00	-13.92	AV	Vertical
3264.75	62.12	44.70	6.70	28.20	-9.80	52.32	74.00	-21.68	PK	Horizontal
3264.75	50.63	44.70	6.70	28.20	-9.80	40.83	54.00	-13.17	AV	Horizontal
4804.32	58.18	44.20	9.04	31.60	-3.56	54.62	74.00	-19.38	PK	Vertical
4804.32	50.38	44.20	9.04	31.60	-3.56	46.82	54.00	-7.18	AV	Vertical
4804.44	58.63	44.20	9.04	31.60	-3.56	55.07	74.00	-18.93	PK	Horizontal
4804.44	49.38	44.20	9.04	31.60	-3.56	45.82	54.00	-8.18	AV	Horizontal
5359.75	49.40	44.20	9.86	32.00	-2.34	47.06	74.00	-26.94	PK	Vertical
5359.75	40.24	44.20	9.86	32.00	-2.34	37.90	54.00	-16.10	AV	Vertical
5359.75	47.77	44.20	9.86	32.00	-2.34	45.43	74.00	-28.57	PK	Horizontal
5359.75	38.34	44.20	9.86	32.00	-2.34	36.00	54.00	-18.00	AV	Horizontal
7205.92	53.52	43.50	11.40	35.50	3.40	56.92	74.00	-17.08	PK	Vertical
7205.92	44.13	43.50	11.40	35.50	3.40	47.53	54.00	-6.47	AV	Vertical
7205.92	54.52	43.50	11.40	35.50	3.40	57.92	74.00	-16.08	PK	Horizontal
7205.92	44.35	43.50	11.40	35.50	3.40	47.75	54.00	-6.25	AV	Horizontal
			1	Middle	Channel (244	0 MHz)		•	•	•
3264.71	61.80	44.70	6.70	28.20	-9.80	52.00	74.00	-22.00	PK	Vertical
3264.71	50.24	44.70	6.70	28.20	-9.80	40.44	54.00	-13.56	AV	Vertical
3264.63	61.47	44.70	6.70	28.20	-9.80	51.67	74.00	-22.33	PK	Horizontal
3264.63	51.13	44.70	6.70	28.20	-9.80	41.33	54.00	-12.67	AV	Horizontal
4880.47	58.30	44.20	9.04	31.60	-3.56	54.74	74.00	-19.26	PK	Vertical
4880.47	50.54	44.20	9.04	31.60	-3.56	46.98	54.00	-7.02	AV	Vertical
4880.45	59.15	44.20	9.04	31.60	-3.56	55.59	74.00	-18.41	PK	Horizontal
4880.45	49.68	44.20	9.04	31.60	-3.56	46.12	54.00	-7.88	AV	Horizontal
5359.67	48.72	44.20	9.86	32.00	-2.34	46.38	74.00	-27.62	PK	Vertical
5359.67	40.23	44.20	9.86	32.00	-2.34	37.88	54.00	-16.12	AV	Vertical
5359.81	47.93	44.20	9.86	32.00	-2.34	45.59	74.00	-28.41	PK	Horizontal
5359.81	38.57	44.20	9.86	32.00	-2.34	36.23	54.00	-17.77	AV	Horizontal
7320.94	54.13	43.50	11.40	35.50	3.40	57.53	74.00	-16.47	PK	Vertical
7320.94	44.61	43.50	11.40	35.50	3.40	48.01	54.00	-5.99	AV	Vertical
7320.77	54.64	43.50	11.40	35.50	3.40	58.04	74.00	-15.96	PK	Horizontal
7320.77	43.68	43.50	11.40	35.50	3.40	47.08	54.00	-6.92	AV	Horizontal



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				High C	hannel (248	0 MHz)				
3264.70	61.61	44.70	6.70	28.20	-9.80	51.81	74.00	-22.19	PK	Vertical
3264.70	51.36	44.70	6.70	28.20	-9.80	41.56	54.00	-12.44	AV	Vertical
3264.64	61.35	44.70	6.70	28.20	-9.80	51.55	74.00	-22.45	PK	Horizontal
3264.64	50.33	44.70	6.70	28.20	-9.80	40.53	54.00	-13.47	AV	Horizontal
4960.38	58.86	44.20	9.04	31.60	-3.56	55.30	74.00	-18.70	PK	Vertical
4960.38	49.45	44.20	9.04	31.60	-3.56	45.89	54.00	-8.11	AV	Vertical
4960.49	58.71	44.20	9.04	31.60	-3.56	55.15	74.00	-18.85	PK	Horizontal
4960.49	49.94	44.20	9.04	31.60	-3.56	46.38	54.00	-7.62	AV	Horizontal
5359.62	48.83	44.20	9.86	32.00	-2.34	46.48	74.00	-27.52	PK	Vertical
5359.62	40.03	44.20	9.86	32.00	-2.34	37.69	54.00	-16.31	AV	Vertical
5359.80	47.40	44.20	9.86	32.00	-2.34	45.06	74.00	-28.94	PK	Horizontal
5359.80	38.23	44.20	9.86	32.00	-2.34	35.89	54.00	-18.11	AV	Horizontal
7439.82	54.67	43.50	11.40	35.50	3.40	58.07	74.00	-15.93	PK	Vertical
7439.82	44.84	43.50	11.40	35.50	3.40	48.24	54.00	-5.76	AV	Vertical
7439.67	54.35	43.50	11.40	35.50	3.40	57.75	74.00	-16.25	PK	Horizontal
7439.67	44.73	43.50	11.40	35.50	3.40	48.13	54.00	-5.87	AV	Horizontal

Note:

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

Emission Level = Reading + Factor

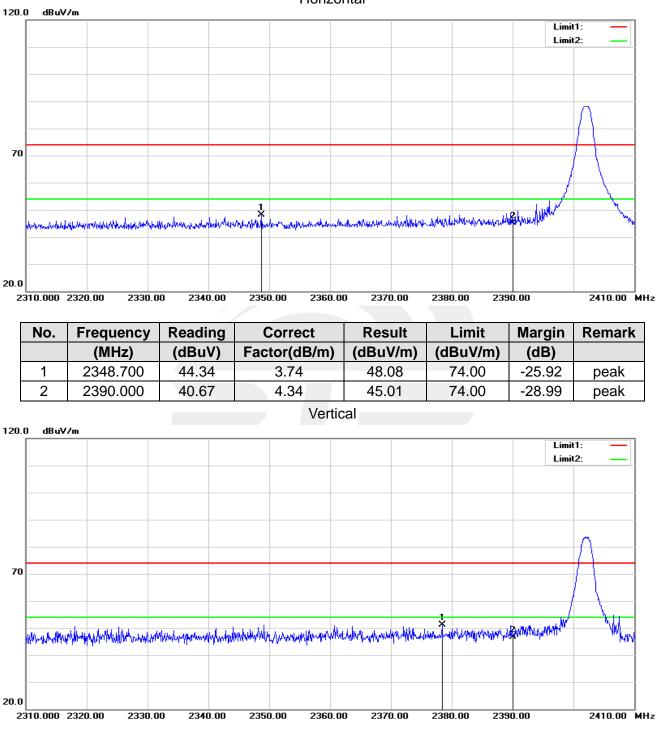
2) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.





4.6 TEST RESULTS(Restricted Bands Requirements)

GFSK-Low Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2378.400	47.07	4.17	51.24	74.00	-22.76	peak
2	2390.000	42.38	4.34	46.72	74.00	-27.28	peak

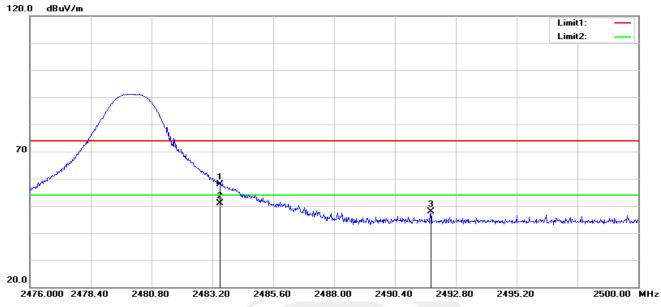
Shenzhen STS Test Services Co., Ltd.



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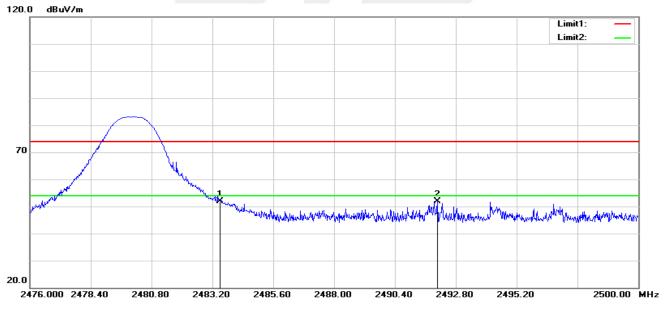
Report No.: STS2002010W04

GFSK-High Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	53.37	4.60	57.97	74.00	-16.03	peak
2	2483.500	46.25	4.60	50.85	54.00	-3.15	AVG
3	2491.816	43.34	4.63	47.97	74.00	-26.03	peak

Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	47.21	4.60	51.81	74.00	-22.19	peak
2	2492.080	47.36	4.63	51.99	74.00	-22.01	peak

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5. CONDUCTED SPURIOUS & BAND EDGE EMISSION

5.1 LIMIT

According to FCC section 15.247(d), 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.

5.2TEST 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		
Stort/Stop Fraguenay	Lower Band Edge: 2300 – 2407 MHz		
Start/Stop Frequency	Upper Band Edge: 2475 – 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 connected to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 500hm; 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.

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5.5 TEST RESULTS

Temperature:	25℃	Relative Humidity:	50%
Test Voltage:	DC 7.2V		TX Mode /CH00, CH19, CH39

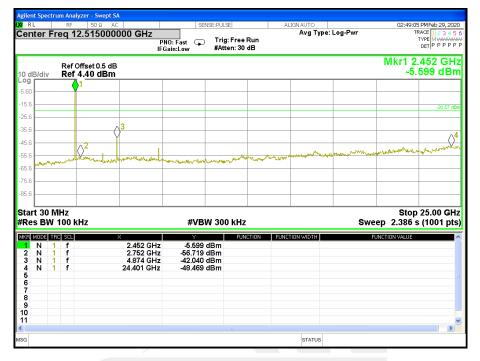
00 CH

RL		RF 50	Ω AC		SE	NSE:PULSE		ALIGN AUTO			55 PM Feb 29, 202
enter	Frec	12.51 נ	5000000 G	PNO	:Fast 🖵 n:Low	Trig: Free I #Atten: 30		Avg Ty	oe: Log-Pwr		TRACE 1 2 3 4 5 TYPE MWWWWW DET P P P P P
) dB/di		tef Offset (tef 6.49									2.402 GH 8.509 dBr
.51		<u><u></u> </u>									
3.5											-21.00 dB
3.5											
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2 N 3 N	1	f f	4.79	2 GHz 9 GHz	-56.902 -41.656	dBm					
4 N	1	f	24.82	5 GHz	-48.239	dBm					
5											
3											
3 9 0 1											>

Shenzhen STS Test Services Co., Ltd.



19 CH



39 CH

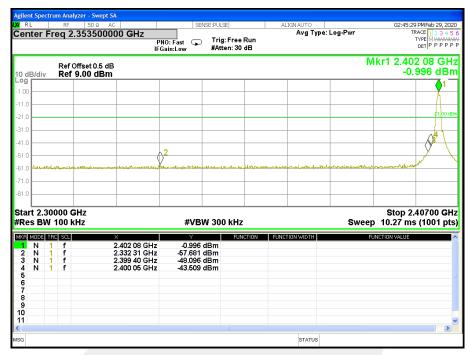


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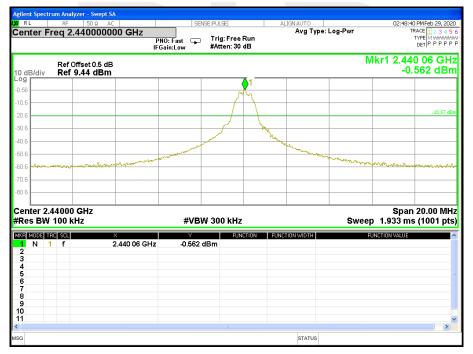


For Band edge(it's also the reference level for conducted spurious emission)



00CH

19CH



Shenzhen STS Test Services Co., Ltd.



39CH

	Analyzer - Swept S								
	RF 50 Ω AC 2.4875000	00 GHz	NO: Fast 🗭 Gain:Low	E:PULSE Trig: Free Ru #Atten: 30 dE	ın	IGNAUTO Avg Type:	Log-Pwr		3 PM Feb 29, 20 RACE 1 2 3 4 9 TYPE MWWWW DET P P P P
	ef Offset 0.5 dB ef 9.84 dBm	.					М	kr1 2.480 -0.	050 GH 157 dB
16		\mathcal{X}_{1}							
.2									-20.16 c
.2	- /	how							
1.2		han a	$\sim \sqrt{2} \sqrt{3}$						
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art 2.4750 tes BW 10		· · · · ·	#VBW	/ 300 kHz			Swee	Stop 2 p 2.400 m	.50000 GI s (1001 pt
R MODE TRC S		× .480 050 GHz	-0.157 d	FUNCT	ON FUNCT	TION WIDTH		UNCTION VALUE	
2 N 1 1 3 N 1 1	f 2 f 2	.483 500 GHz .484 050 GHz .497 475 GHz	-51.623 d -52.546 d -58.458 d	Bm Bm					
)									
3 9 1 1									>



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6. POWER SPECTRAL DENSITY TEST

6.1LIMIT

FCC Part15.247,Subpart C						
Section	Test Item	Limit	Frequency Range (MHz)	Result		
15.247(e)	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

EUT	SPECTRUM
	ANALYZER

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:	25 ℃	Relative Humidity:	60%
Test Voltage:	DC 7.2V		TX Mode /CH00, CH19, CH39

Fraguanay	Power Density	Limit (dBm/3KHz)	Result	
Frequency	(dBm/3kHz)			
2402 MHz	-19.21	≤8	PASS	
2440 MHz	-19.132	≤8	PASS	
2480 MHz	-19.286	≤8	PASS	

TX CH00



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TX CH19



TX CH39



Shenzhen STS Test Services Co., Ltd.



7. BANDWIDTH TEST

7.1LIMIT

FCC Part15.247,Subpart C						
Section	Test Item	Limit	Frequency Range (MHz)	Result		
15.247(a)(2)	Bandwidth	>= 500KHz (6dB 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 \geq 3RBW, 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 \geq 6 dB.

7.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

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:	25 ℃	Relative Humidity:	60%
Test Voltage:	DC 7.2V		TX Mode /CH00, CH19, CH39

Frequency	6dB Bandwidth (KHz)	Channel Separation (KHz)	Result
2402 MHz	681.900	≥500KHz	PASS
2440 MHz	706.000	≥500KHz	PASS
2480 MHz	703.900	≥500KHz	PASS

TX CH 00

Agilent Spectrum Analyzer - Occupied B	W			
α RL RF 50 Ω AC		ENSE:PULSE Center Freg: 2.402000	ALIGNAUTO	02:43:23 PM Feb 29, 2020 Radio Std: None
Center Freq 2.40200000	#IFGain:Low		Avg Hold:>10/10	Radio Device: BTS
10 dB/div Ref 20.00 dBn	n			-
10.0				
0.00				
-10.0	- martin	- man		
-20.0	and a man			
-30.0				Mannahar
-40.0				
-50.0				
-60.0				
-70.0				
Center 2.402 GHz #Res BW 100 kHz		#VBW 300 k	Hz	Span 2 MHz Sweep 1 ms
Occupied Bandwidt	h	Total Power	4.16 dBm	
1.	1038 MHz			
Transmit Freq Error	33.683 kHz	OBW Power	99.00 %	
x dB Bandwidth	681.9 kHz	x dB	-6.00 dB	
ISG			STATUS	

Shenzhen STS Test Services Co., Ltd.



TX CH 19

	AC	SE	NSE:PULSE	ALIGNAUTO	02:47:46 PM Feb 29, 202
enter Freq 2.440000	000 GHz		Center Freq: 2.440000 Trig: Free Run	000 GHz Avg Hold:>10/10	Radio Std: None
	#IFGai	in:Low 🖵	#Atten: 30 dB	Avginold.>10/10	Radio Device: BTS
dB/div Ref 20.00	dBm				
9					
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0 www.					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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0					
0					
enter 2.44 GHz					Span 2 MH
tes BW 100 kHz			#VBW 300 k	Hz	Sweep 1 m
Occupied Bandw	ridth		Total Power	4.65 dBm	
	1.0995 M	Hz			
Transmit Freq Erro	37.676	kHz	OBW Power	99.00 %	
x dB Bandwidth	706.0	kHz	x dB	-6.00 dB	

TX CH 39

STATUS



Shenzhen STS Test Services Co., Ltd.



8. PEAK OUTPUT POWER TEST

8.1LIMIT

FCC Part15.247,Subpart C						
Section	Test Item	Limit	Frequency Range (MHz)	Result		
15.247(b)(3)	Output Power	1 watt or 30dBm	2400-2483.5	PASS		

8.2 TEST PROCEDURE

One of the following procedures may be used to determine the maximum peak conducted output power of aDTS EUT.

 $RBW \ge DTS$ bandwidth

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:

a) Set the RBW \geq DTS bandwidth.

b) Set VBW \geq [3 \times RBW].

c) Set span \geq [3 × RBW].

d) Sweep time = auto couple.

e) Detector = peak.

f) Trace mode = max hold.

g) Allow trace to fully stabilize.

h) Use peak marker function to determine the peak amplitude level.

Integrated band power method:

The following procedure can be used when the maximum available RBW of the instrument is less than the

DTS bandwidth:

a) Set the RBW = 1 MHz.

b) Set the VBW \geq [3 \times RBW].

c) Set the span \geq [1.5 × DTS bandwidth].

d) Detector = peak.

e) Sweep time = auto couple.

f) Trace mode = max hold.

g) Allow trace to fully stabilize.

h) Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select the peak detector). If the instrument does not have a band power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS channel bandwidth.

PKPM1 Peak power meter method:

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shalluse a fast-responding diode detector.

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.

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8.5 TEST RESULTS

Temperature:	25 ℃	Relative Humidity:	60%
Test Voltage:	DC 7.2V		TX Mode /CH00, CH19, CH39

Test Channe	Frequency	Peak Conducted Output Power	Average Conducted Output Power
	(MHz)	(dBm)	(dBm)
CH0	2402	-0.13	-7.81
CH19	2440	0.47	-7.21
CH39	2480	1.05	-6.65





9. ANTENNA REQUIREMENT

9.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shallbe designed to ensure that no antenna other than that furnished by the responsible partyshall be used with the device.

9.2 EUT ANTENNA

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



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10. EUT TEST PHOTO

Note: See test photos in setup photo document for the actual connections between Product and support equipment.



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