

RADIO TEST REPORT

S T S

Report No: STS1809071W02

Issued for

RYEEX Technology Co.,Ltd.

Qianhai Complex A201, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, China

Product Name:	heyplus band			
Brand Name:	heyplus band			
Model Name:	B1800			
Series Model:	N/A			
FCC ID:	2ARDO-B1800			
Test Standard:	FCC Part 15.247			

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TEST RESULT CERTIFICATION

Applicant's name:	RYEEX Technology Co.,Ltd.
Address	Qianhai Complex A201, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, China
Manufacture's Name:	RYEEX Technology Co.,Ltd.
Address	Qianhai Complex A201, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, China
Product description	
Product Name:	heyplus band
Brand Name	heyplus band
Model Name:	B1800
Series Model:	N/A
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 (s) of performance of tests 18 Sept.2018 ~28 Sept.2018

Date of Issue 09 Oct.2018

Test Result..... Pass

Testing Engineer (Chris chen) an She **Technical Manager** (Sean she) Authorized Signatory :

(Vita Li)

Shenzhen STS Test Services Co., Ltd.

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Revision History

Rev.	ev. Issue Date Report NO.		Effect Page	Contents
00	09 Oct.2018	STS1809071W02	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							
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 Band Edge Emission	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. : 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



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2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product Name	heyplus band			
Trade Name	heyplus band			
Model Name	B1800			
Series Model	N/A			
Model Difference	N/A			
	The EUT is heyplus	band		
	Operation Frequency:	2402~2480 MHz		
	Modulation Type:	GFSK		
	Radio Technology	BLE		
Product Description	Bluetooth Version:	4.2 LE		
	Number Of Channe	140		
	Antenna Designation:	Please see Note 3.		
	Antenna Gain (dBi)	0 dBi		
Channel List	Please refer to the N	Note 2.		
Battery	Battery(rating): Rated Voltage: 3.8V Charge Limit: 4.35V Capacity: 120mAh			
Hardware version number	1.0.0			
Software version number	1.0.0			
Connecting I/O Port(s)	Please refer to the L	Jser'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

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	heyplus band	B1800	Ceramics Antenna	N/A	0	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

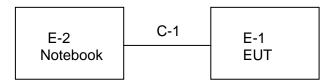
	Test Case
AC Conducted Emission	Mode 4 : Keeping BT TX



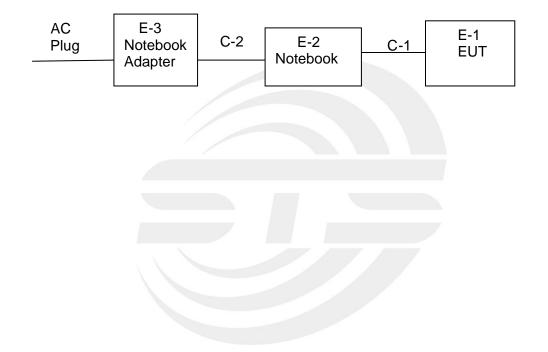
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2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test



Conducted Emission Test



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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

adiation rest equipme					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESCI	102086	2017.10.15	2018.10.14
Bilog Antenna	TESEQ	CBL6111D	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) limit in the table below has to be followed.

	Conducted Emission limit (dBuV)		
FREQUENCY (MHz)	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

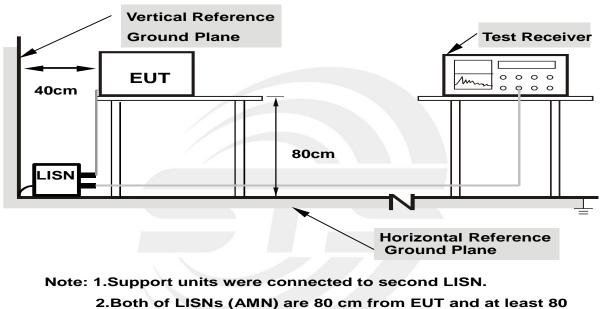
Receiver Parameters	Setting		
Attenuation	10 dB		
Start Frequency	0.15 MHz		
Stop Frequency	30 MHz		
IF Bandwidth	9 kHz		

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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

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



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3.5 TEST RESULTS

Temperature:	24.6 ℃	Relative Humidity:	67%
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 4		

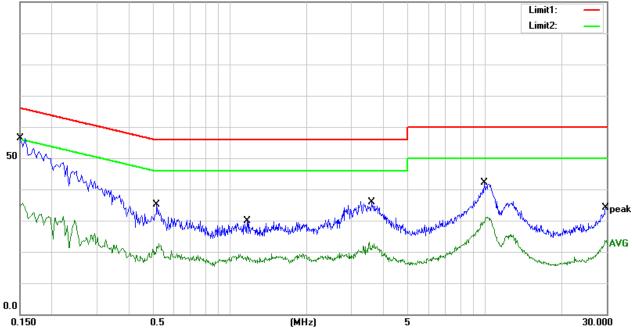
Frequency	Reading	Correct	Result	Limit	Margin	Domork
(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	Remark
0.1500	36.71	19.76	56.47	66.00	-9.53	QP
0.1500	15.81	19.76	35.57	56.00	-20.43	AVG
0.5180	15.04	19.97	35.01	56.00	-20.99	QP
0.5180	2.73	19.97	22.70	46.00	-23.30	AVG
1.1660	10.12	19.75	29.87	56.00	-26.13	QP
1.1660	-0.29	19.75	19.46	46.00	-26.54	AVG
3.5980	16.08	19.76	35.84	56.00	-20.16	QP
3.5980	2.77	19.76	22.53	46.00	-23.47	AVG
9.9420	21.93	20.10	42.03	60.00	-17.97	QP
9.9420	11.01	20.10	31.11	50.00	-18.89	AVG
29.7460	13.94	20.06	34.00	60.00	-26.00	QP
29.7460	3.61	20.06	23.67	50.00	-26.33	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:	24.6 °C	Relative Humidity:	67%
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 4		

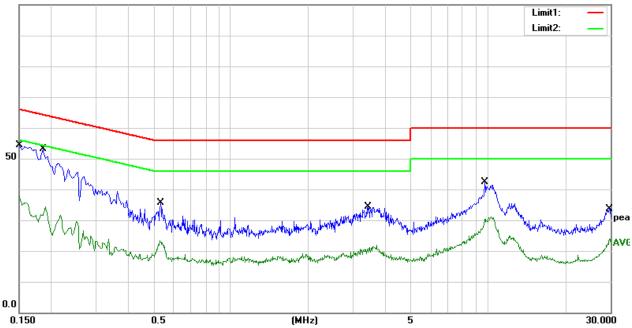
Frequency	Reading	Correct	Result	Limit	Margin	Domork
(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	Remark
0.1500	34.61	19.72	54.33	66.00	-11.67	QP
0.1500	18.13	19.72	37.85	56.00	-18.15	AVG
0.1860	33.23	19.81	53.04	64.21	-11.17	QP
0.1860	14.69	19.81	34.50	54.21	-19.71	AVG
0.5340	15.61	19.92	35.53	56.00	-20.47	QP
0.5340	3.36	19.92	23.28	46.00	-22.72	AVG
3.4180	14.44	19.86	34.30	56.00	-21.70	QP
3.4180	1.96	19.86	21.82	46.00	-24.18	AVG
9.7540	22.47	19.83	42.30	60.00	-17.70	QP
9.7540	11.40	19.83	31.23	50.00	-18.77	AVG
29.8380	13.44	20.30	33.74	60.00	-26.26	QP
29.8380	3.61	20.30	23.91	50.00	-26.09	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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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 C63.10-2013 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)

	(dBuV/m) (at 3M)			
FREQUENCY (MHz)	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/AV	
Start Frequency	1000 MHz(Peak/AV)	
Stop Frequency	10th carrier hamonic(Peak/AV)	
RB / VB (emission in restricted	4 MUL / 2 MUL	
band)	1 MHz / 3 MHz	

For Band edge

Spectrum Parameter	Setting				
Detector	Peak/AV				
	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

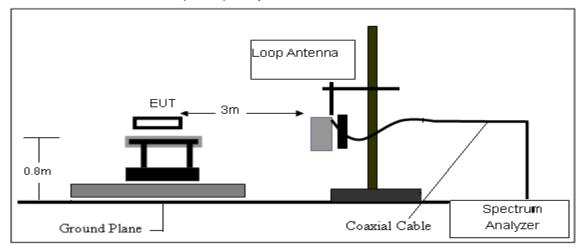
- a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 meters(above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine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

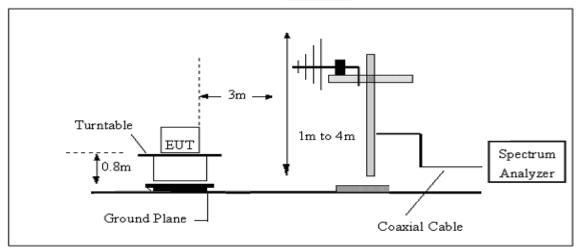


4.3 TEST SETUP

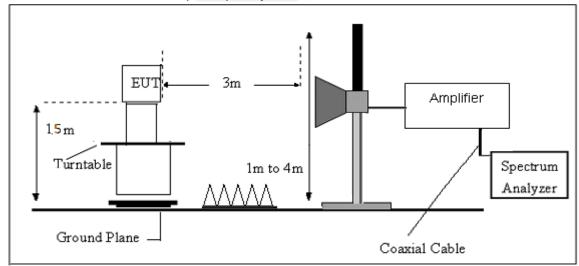
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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 - AGWhere 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:	25.7 ℃	Relative Humidtity:	54%
Test Voltage:	3.8V from Battery	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.





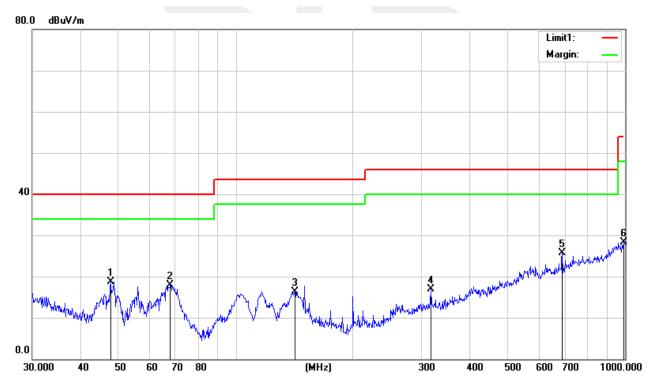
(30MHz -1000MHz)

Temperature:	25.7 ℃	Relative Humidity:	54%			
Test Voltage:	3.8V from Battery	Phase:	Horizontal			
Test Mode:	Mode1/2/3(Mode 2-1M worst mode)					

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
47.6586	38.93	-20.27	18.66	40.00	-21.34	QP
67.9130	42.00	-24.15	17.85	40.00	-22.15	QP
141.8262	33.90	-17.59	16.31	43.50	-27.19	QP
316.5890	31.24	-14.28	16.96	46.00	-29.04	QP
689.5644	31.20	-5.57	25.63	46.00	-20.37	QP
993.0114	28.36	-0.10	28.26	54.00	-25.74	QP
993.0114	28.36	-0.10	28.26	54.00	-25.74	QP

Remark:

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





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Report No.: STS1809071W02

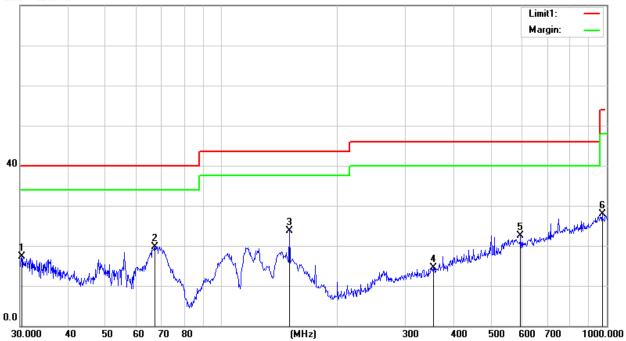
Temperature:	25.7 ℃	Relative Humidity:	54%		
Test Voltage:	3.8V from Battery	Phase:	Vertical		
Test Mode:	Mode1/2/3(Mode 2-1M worst mode)				

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
30.3173	28.64	-11.35	17.29	40.00	-22.71	QP
67.2022	43.93	-24.17	19.76	40.00	-20.24	QP
150.0108	41.65	-17.97	23.68	43.50	-19.82	QP
354.1831	27.85	-13.40	14.45	46.00	-31.55	QP
597.2234	29.55	-7.10	22.45	46.00	-23.55	QP
972.3374	27.96	-0.14	27.82	54.00	-26.18	QP

Remark:

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

80.0 dBu¥/m





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Report No.: STS1809071W02

(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)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
				Low	Channel (2402 I	MHz)				
3264.70	62.17	44.70	6.70	28.20	-9.80	52.37	74.00	-21.63	PK	Vertical
3264.70	50.31	44.70	6.70	28.20	-9.80	40.51	54.00	-13.49	AV	Vertical
3264.75	61.30	44.70	6.70	28.20	-9.80	51.50	74.00	-22.50	PK	Horizontal
3264.75	50.20	44.70	6.70	28.20	-9.80	40.40	54.00	-13.60	AV	Horizontal
4804.58	58.32	44.20	9.04	31.60	-3.56	54.76	74.00	-19.24	PK	Vertical
4804.58	49.41	44.20	9.04	31.60	-3.56	45.85	54.00	-8.15	AV	Vertical
4804.57	58.24	44.20	9.04	31.60	-3.56	54.68	74.00	-19.32	PK	Horizontal
4804.57	50.19	44.20	9.04	31.60	-3.56	46.63	54.00	-7.37	AV	Horizontal
5359.85	48.04	44.20	9.86	32.00	-2.34	45.70	74.00	-28.30	PK	Vertical
5359.85	40.19	44.20	9.86	32.00	-2.34	37.85	54.00	-16.15	AV	Vertical
5359.69	47.20	44.20	9.86	32.00	-2.34	44.86	74.00	-29.14	PK	Horizontal
5359.69	39.41	44.20	9.86	32.00	-2.34	37.07	54.00	-16.93	AV	Horizontal
7205.89	53.75	43.50	11.40	35.50	3.40	57.15	74.00	-16.85	PK	Vertical
7205.89	44.16	43.50	11.40	35.50	3.40	47.56	54.00	-6.44	AV	Vertical
7205.84	53.92	43.50	11.40	35.50	3.40	57.32	74.00	-16.68	PK	Horizontal
7205.84	44.27	43.50	11.40	35.50	3.40	47.67	54.00	-6.33	AV	Horizontal



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Report No.: STS1809071W02

Mid Channel

				Antenna	Corrected	Emission				
Frequency	Reading	Amplifier	Loss	Factor	Factor	Level	Limits	Margin	Detector	
(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
				Mid	Channel (2440 N	//Hz)				
3264.71	61.21	44.70	6.70	28.20	-9.80	51.41	74.00	-22.59	PK	Vertical
3264.71	51.20	44.70	6.70	28.20	-9.80	41.40	54.00	-12.60	AV	Vertical
3264.72	60.81	44.70	6.70	28.20	-9.80	51.01	74.00	-22.99	PK	Horizontal
3264.72	51.30	44.70	6.70	28.20	-9.80	41.50	54.00	-12.50	AV	Horizontal
4880.57	58.30	44.20	9.04	31.60	-3.56	54.74	74.00	-19.26	PK	Vertical
4880.57	49.51	44.20	9.04	31.60	-3.56	45.95	54.00	-8.05	AV	Vertical
4880.48	59.20	44.20	9.04	31.60	-3.56	55.64	74.00	-18.36	PK	Horizontal
4880.48	49.36	44.20	9.04	31.60	-3.56	45.80	54.00	-8.20	AV	Horizontal
5359.71	49.15	44.20	9.86	32.00	-2.34	46.81	74.00	-27.19	PK	Vertical
5359.71	40.39	44.20	9.86	32.00	-2.34	38.05	54.00	-15.95	AV	Vertical
5359.60	47.32	44.20	9.86	32.00	-2.34	44.98	74.00	-29.02	PK	Horizontal
5359.60	39.08	44.20	9.86	32.00	-2.34	36.74	54.00	-17.26	AV	Horizontal
7310.77	54.72	43.50	11.40	35.50	3.40	58.12	74.00	-15.88	PK	Vertical
7310.77	44.15	43.50	11.40	35.50	3.40	47.55	54.00	-6.45	AV	Vertical
7310.83	54.55	43.50	11.40	35.50	3.40	57.95	74.00	-16.05	PK	Horizontal
7310.83	44.50	43.50	11.40	35.50	3.40	47.90	54.00	-6.10	AV	Horizontal



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Report No.: STS1809071W02

High Channel

				1 11 2						
				Antenna	Corrected	Emission				
Frequency	Reading	Amplifier	Loss	Factor	Factor	Level	Limits	Margin	Detector	
(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
				High	Channel (2480	MHz)				
3264.86	61.39	44.70	6.70	28.20	-9.80	51.59	74.00	-22.41	PK	Vertical
3264.86	51.14	44.70	6.70	28.20	-9.80	41.34	54.00	-12.66	AV	Vertical
3264.85	61.52	44.70	6.70	28.20	-9.80	51.72	74.00	-22.28	PK	Horizontal
3264.85	51.29	44.70	6.70	28.20	-9.80	41.49	54.00	-12.51	AV	Horizontal
4960.44	58.31	44.20	9.04	31.60	-3.56	54.75	74.00	-19.25	PK	Vertical
4960.44	49.19	44.20	9.04	31.60	-3.56	45.63	54.00	-8.37	AV	Vertical
4960.57	58.90	44.20	9.04	31.60	-3.56	55.34	74.00	-18.66	PK	Horizontal
4960.57	49.70	44.20	9.04	31.60	-3.56	46.14	54.00	-7.86	AV	Horizontal
5359.85	48.78	44.20	9.86	32.00	-2.34	46.44	74.00	-27.56	PK	Vertical
5359.85	39.92	44.20	9.86	32.00	-2.34	37.58	54.00	-16.42	AV	Vertical
5359.66	48.17	44.20	9.86	32.00	-2.34	45.83	74.00	-28.17	PK	Horizontal
5359.66	38.32	44.20	9.86	32.00	-2.34	35.98	54.00	-18.02	AV	Horizontal
7439.93	54.62	43.50	11.40	35.50	3.40	58.02	74.00	-15.98	PK	Vertical
7439.93	43.94	43.50	11.40	35.50	3.40	47.34	54.00	-6.66	AV	Vertical
7439.89	54.44	43.50	11.40	35.50	3.40	57.84	74.00	-16.16	PK	Horizontal
7439.89	44.03	43.50	11.40	35.50	3.40	47.43	54.00	-6.57	AV	Horizontal
Noto										

Note:

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

Emission Level = Reading + Factor

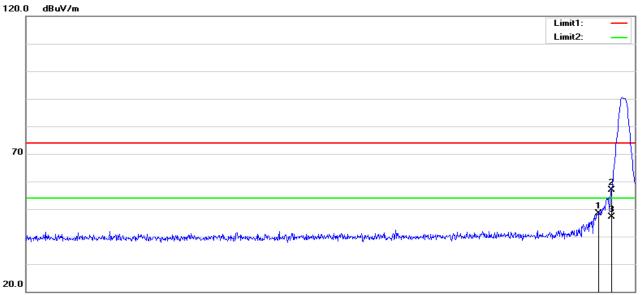
2) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

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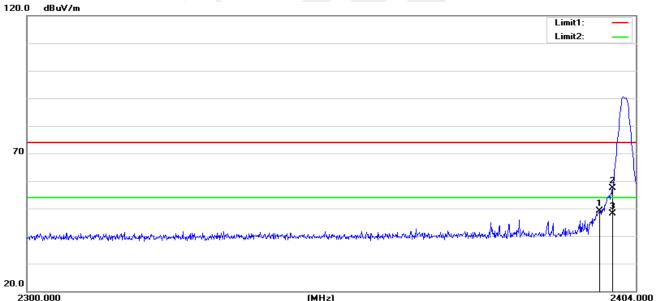
4.6 TEST RESULTS (Restricted Bands Requirements)

GFSK-Low Horizontal



2300.00	0		(MHz)				2404.000
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2397.760	50.46	-1.98	48.48	74.00	-25.52	peak
2	2400.000	58.78	-1.97	56.81	74.00	-17.19	peak
3	2400.000	49.20	-1.97	47.23	54.00	-6.77	AVG

Vertical



2300.0	00		(M12)				2404.000
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2397.656	51.03	-1.98	49.05	74.00	-24.95	peak
2	2400.000	59.26	-1.97	57.29	74.00	-16.71	peak
3	2400.000	50.12	-1.97	48.15	54.00	-5.85	AVG

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

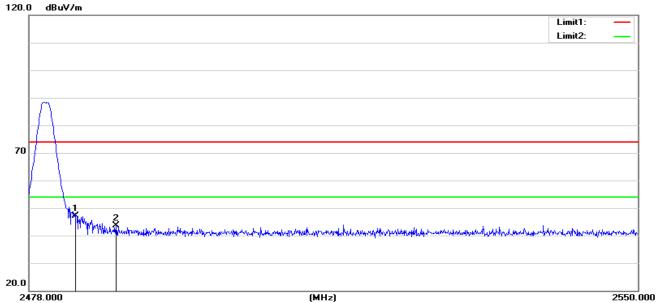
 Tel: + 86-755
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 Http://www.stsapp.com
 E-mail: sts@stsapp.com



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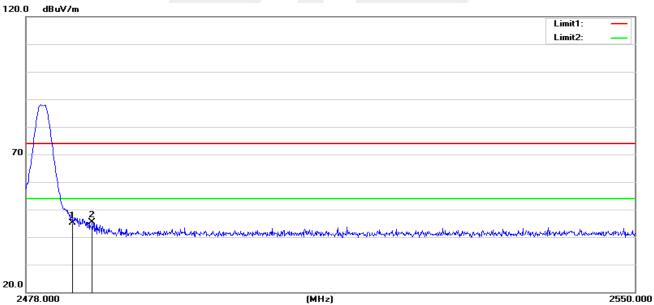
Report No.: STS1809071W02

GFSK-High Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	48.44	-1.20	47.24	74.00	-26.76	peak
2	2488.224	44.76	-1.18	43.58	74.00	-30.42	peak

Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	46.43	-1.20	45.23	74.00	-28.77	peak
2	2485.776	46.52	-1.19	45.33	74.00	-28.67	peak

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5. CONDUCTED SPURIOUS & BAND EDGE EMISSION

5.1 REQUIREMENT

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.

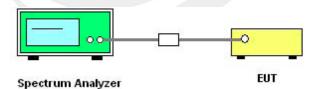
5.2 TEST PROCEDURE

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:	25 ℃	Relative Humidity:	50%
Test Voltage:	DC 3.8V		TX Mode /CH37, CH17, CH39

37 CH

		RF	50 Ω	AC		SENSE:PUI	.SE	AL	IGN AUTO				AM Sep 28, 201
enter	Fre	eq 12	2.51500	0000 GHz	PNO: Fast FGain:Lov		g: Free Run ten: 30 dB		Avg Type	: Log-Pwr		T	ACE 1 2 3 4 5 YPE MWAMAM DET P P P P P
) dB/di			offset 0.5 d 2.90 dBr								Mkr		01 5 GH 100 dBr
.10		- 🔶	1										
7.1													-27.10 df
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7.1			`∕ <mark>2</mark>	¥						والمراجع والمراجع	مربعة المريكة. الأنتخاب المريكة	ter fille forder	
7.1													
7.1		_											
tart 3 Res B			Hz			#VBW 30	0 kHz			S	veep 2.	Stop .387 s (25.00 GH 40001 pt
R MODE	TRC	SCL		× 2.401 5 GHz	,	Y 7.100 dBm	FUNCTION	FUNC	TION WIDTH		FUNCTIO	N VALUE	
2 N	1	f		2.664 3 GHz 4.804 3 GHz	z -5 z -4	6.123 dBm 5.980 dBm							
3 N		f		24.782 1 GHz	z -4	6.924 dBm							
3 N 4 N 5	1												
3 N 4 N 5 7 8													
3 N 4 N													

Shenzhen STS Test Services Co., Ltd.



17 CH

ilent Spectrum Analyzer	- Swept SA 50 Ω AC	SEN	SE:PULSE	ALIGNAUTO		11-17-1	2 AM Sep 28, 201
enter Freq 12.5	15000000 GHz	PNO: Fast 😱 IFGain:Low	Trig: Free Run #Atten: 30 dB	AuditAcito Avg Type:	Log-Pwr	T	RACE 1 2 3 4 5 TYPE MWWWW DET P P P P P
Ref Offs dB/div Ref 1.9						Mkr1 2.4 -8.	40 2 GH 068 dBn
.07							
.1							-28.07 dE
L1							
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						an a	
.1							
3.1							
art 30 MHz tes BW 100 kHz	·	#VBV	V 300 kHz	·	Swe	Stop ep 2.387 s	25.00 GH (40001 pt
R MODE TRC SCL	× 2.440 2 GHz	z -8.068 c	FUNCTION	FUNCTION WIDTH		FUNCTION VALUE	
2 N 1 f 3 N 1 f 4 N 1 f	3.149 4 GHz 4.879 8 GHz 24.863 9 GHz	z -56.479 o z -51.537 o	¦Bm ∕Bm				
3 9 1							
							>
				STATUS			

39 CH

		zer - Swept SA								
enter F	_R ⊧ Freq 12	50 Ω AC 2.51500000	PN	0: Fast 😱	NSE:PULSE Trig: Free Ru #Atten: 30 dE	'n	IGNAUTO Avg Type:	Log-Pwr	11:13:	52 AM Sep 28, 201 TRACE 1 2 3 4 5 TYPE M WWWWW DET P P P P P
) dB/div		ffset 0.5 dB 6 <mark>.20 dBm</mark>								480 2 GH .483 dBr
6.2	Y	1								
.2										
.2										-36.20 df
.2		2	3							
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2		and designed operation (by 11				and the part of				
.2										
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art 30 tes BW	MHz / 100 kH	łz		#VB	₩ 300 kHz			Swe		p 25.00 GH s (40001 pt
2 N	1 f 1 f	2	.480 2 GHz .678 1 GHz	-11.483 -56.798	dBm	ON FUNCT	TION WIDTH		FUNCTION VALUE	
N	1 f 1 f		.418 0 GHz .458 8 GHz	-56.929 -46.559						
										>





For Band edge

37 CH

ilent Spe R L		Analyzer -	Swept SA			SENSE:PULS			IGNAUTO		11.0	D:58 AM Sep 28, 20
		q 2.351			PNO: Fast FGain:Low	Trig	⊨ :FreeRun en:30 dB	ALJ	Avg Type:	-		TRACE 1 2 3 4 TYPE MMMM DET P P P P
dB/div		Ref Offse Ref 4.50								N	1kr1 2.40 -	01 764 GH 5.500 dB
50												
.5												
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5.5 5.5												
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.5												
.5												_
		0 GHz 10 kHz			#	VBW 300	kHz			Swee		2.40300 GH ms (1001 pt
R MODE	1	f		01 764 GHz	5.	500 dBm	FUNCTION	FUNCT	ION WIDTH		FUNCTION VALU	ŧ
2 N 8 N		f f		96 717 GHz 99 910 GHz		707 dBm 924 dBm						
· 												
												>

39 CH





6. POWER SPECTRAL DENSITY TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part 15.247,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 3.8V		TX Mode /CH37, CH17, CH39

Frequency	Power Density (dBm/3kHz)	Limit (dBm/3KHz)	Result
2402 MHz	-24.667	≤8	PASS
2440 MHz	-24.665	≤8	PASS
2480 MHz	-24.674	≤8	PASS

TX CH37

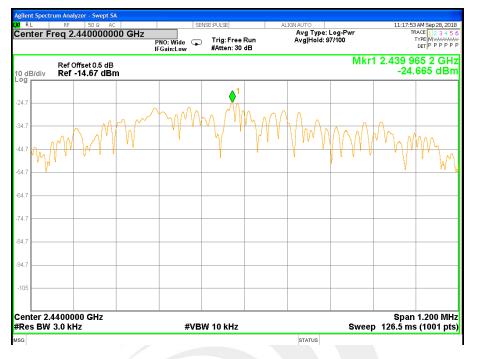


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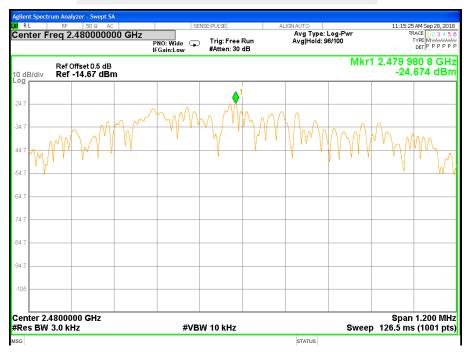
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TX CH17



TX CH39





7. BANDWIDTH TEST

7.1 APPLIED PROCEDURES / LIMIT

FCC Part 15.247,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 \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

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.



Report No.: STS1809071W02

7.5 TEST RESULTS

Temperature:	25 ℃	Relative Humidity:	60%
Test Voltage:	DC 3.8V		TX Mode /CH37, CH17, CH39

Frequency	6dB Bandwidth (MHz)	Channel Separation	Result
2402 MHz	0.524	>=500KHz	PASS
2440 MHz	0.519	>=500KHz	PASS
2480 MHz	0.510	>=500KHz	PASS

TX CH 37

RL RF 50Ω AC			ALIGNAUTO	11:19:27 AM Sep 28, 201
enter Freq 2.40200000		Center Freq: 2.402000 Trig: Free Run	000 GHz Avg Hold:>10/10	Radio Std: None
	#IFGain:Low	#Atten: 30 dB		Radio Device: BTS
dB/div Ref 20.00 dBm				
0				
0				
0				
1 martine and 1				
0				
0				
0				
.0				
enter 2.402 GHz				Span 2 MH
tes BW 100 kHz		#VBW 300 k	Hz	Sweep 1 m
Occupied Bandwidth	า	Total Power	-0.05 dBm	
1.:	3400 MHz			
Transmit Freq Error	93.646 kHz	OBW Power	99.00 %	
x dB Bandwidth	524.0 kHz	x dB	-6.00 dB	

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TX CH 17

RL RF 50Ω AC		ENSE:PULSE	ALIGNAUTO	11:16:34 AM Sep 28, 201
enter Freq 2.440000000	GHz #IFGain:Low	Center Freq: 2.440000 Trig: Free Run #Atten: 30 dB	000 GHz Avg Hold:>10/10	Radio Std: None Radio Device: BTS
0 dB/div Ref 20.00 dBn	1			
og 0.0				
.00				
0.0			Novin La Contra	
.0				
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.0				
enter 2.44 GHz Res BW 100 kHz		#VBW 300 k	Hz	Span 2 MH Sweep 1 m
Occupied Bandwidt	h	Total Power	-0.02 dBm	
1.3	3309 MHz			
Transmit Freq Error	99.480 kHz	OBW Power	99.00 %	
x dB Bandwidth	518.5 kHz	x dB	-6.00 dB	

TX CH 39

STATUS

gilent Spectrum Analyzer - Occupied BV CRL RF 50 Ω AC		ENSE:PULSE	ALIGNAUTO	11:13:14 AM Sep 28, 2018
enter Freq 2.48000000		Center Freq: 2.4800000		Radio Std: None
	#IFGain:Low	Trig: Free Run #Atten: 30 dB	Avg Hold:>10/10	Radio Device: BTS
0 dB/div Ref 20.00 dBm	I.			
og				
0.0				
.00				
0.0				
20.0				
0.0				
10.0				
0.0				
60.0				
70.0				
enter 2.48 GHz				Span 2 MHz
Res BW 100 kHz		#VBW 300 k	Hz	Sweep 1 ms
Occupied Bandwidtl	'n	Total Power	0.03 dBm	
	3193 MHz			
1.				
Transmit Freq Error	101.55 kHz	OBW Power	99.00 %	
x dB Bandwidth	509.5 kHz	x dB	-6.00 dB	
G			STATUS	

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8. PEAK OUTPUT POWER TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part 15.247,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

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:	25 ℃	Relative Humidity:	60%
Test Voltage:	DC 3.8V		TX Mode /CH37, CH17, CH39

TX Mode				
Test Channel	Frequency	Conducted Output Power		LIMIT
Test Channer	(MHz)	Peak (dBm)	AVG (dBm)	dBm
CH37	2402	-2.93	-4.12	30
CH17	2440	-2.76	-4.05	30
CH39	2480	-2.81	-4.24	30



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9. ANTENNA REQUIREMENT

9.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: 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 Ceramics Antenna. It comply with the standard requirement.

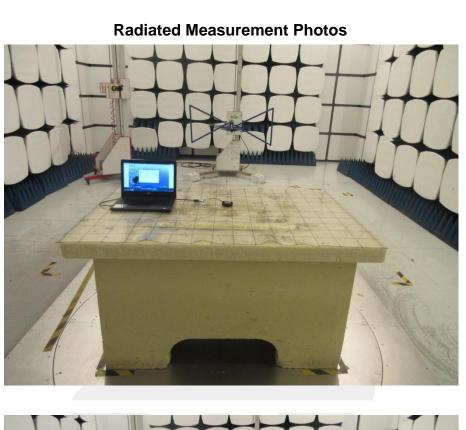


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Conducted Measurement Photos



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

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