



RADIO TEST REPORT

Report No: STS1604183F04

Issued for

INTERGLOBE CONNECTION CORP

7500 NW 25th Street 112 Miami, Florida 33122 United States

L A B

Product Name:	MOBILE PHONE
Brand Name:	EKO
Model Name:	EKO Omega Q50
Series Model:	EKO Omega
FCC ID:	2AC7IEKOQ50
Test Standard:	FCC Part 15.247

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Shenzhen STS Test Services Co., Ltd.

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TEST RESULT CERTIFICATION

Applicant's name...... INTERGLOBE CONNECTION CORP

Address...... 7500 NW 25th Street 112 Miami, Florida 33122 United States

Manufacture's Name: Shenzhen Heng Da Infinite Communication Equipments Limited

Address...... Room14H Taibang Building ,4Rd Hi-Tech South,Hi-tech Industrial

Park, Nanshan District, Shenzhen

Product description

Product name MOBILE PHONE

Model and/or type reference : EKO Omega Q50

Series Model..... EKO Omega

Standards FCC Part15.247

Test procedure...... ANSI C63.10-2013

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

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Date of Test.....

Date of Issue 16 May. 2016

Test Result Pass

Testing Engineer :

(Jin Ming)

Technical Manager:

(Vita Li)

Authorized Signatory: Lowy [or

(Bovey Yang)



Table of Contents	Page
1. SUMMARY OF TEST RESULTS	6
1.1 TEST FACTORY	6
1.2 MEASUREMENT UNCERTAINTY	7
2. GENERAL INFORMATION	8
2.1 GENERAL DESCRIPTION OF EUT	8
2.2 DESCRIPTION OF TEST MODES	10
2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	11
2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)	12
2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS	13
3. EMC EMISSION TEST	14
3.1 CONDUCTED EMISSION MEASUREMENT	14
3.2 TEST PROCEDURE	15
3.3 TEST SETUP	15
3.4 EUT OPERATING CONDITIONS	15
3.5 TEST RESULTS	16
4. RADIATED EMISSION MEASUREMENT	18
4.1 RADIATED EMISSION LIMITS	18
4.2 TEST PROCEDURE	19
4.3 TEST SETUP	20
4.4 EUT OPERATING CONDITIONS	20
4.5 TEST RESULTS	21
4.6 TEST RESULTS (RESTRICTED BANDS REQUIREMENTS)	30
5. CONDUCTED SPURIOUS & BAND EDGE EMISSION	31
5.1 REQUIREMENT	31
5.2 TEST PROCEDURE	31
5.3 TEST SETUP	31
5.4 EUT OPERATION CONDITIONS	31
5.5 TEST RESULTS	32
6. POWER SPECTRAL DENSITY TEST	35
6.1 APPLIED PROCEDURES / LIMIT	35
6.2 TEST PROCEDURE	35
6.3 TEST SETUP	35



Table of Contents	Page
6.4 EUT OPERATION CONDITIONS	35
6.5 TEST RESULTS	36
7. BANDWIDTH TEST	38
7.1 APPLIED PROCEDURES / LIMIT	38
7.2 TEST PROCEDURE	38
7.3 TEST SETUP	38
7.4 EUT OPERATION CONDITIONS	38
7.5 TEST RESULTS	39
8. PEAK OUTPUT POWER TEST	41
8.1 APPLIED PROCEDURES / LIMIT	41
8.2 TEST PROCEDURE	41
8.3 TEST SETUP	41
8.4 EUT OPERATION CONDITIONS	41
8.5 TEST RESULTS	42
9. ANTENNA REQUIREMENT	43
9.1 STANDARD REQUIREMENT	43
9.2 EUT ANTENNA	43
10. EUT TEST PHOTO	44





Revision History

Rev.	Issue Date Report NO.		Effect Page	Contents
00	00 16 May. 2016 STS1604183F04		ALL	Initial Issue





1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards: KDB 558074 D01 DTS Meas Guidance v03r04

FCC Part15 (15.247) , Subpart C						
Standard Section	I IPST ITEM					
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	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

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.: 842334; IC Registration No.: 12108A-1



1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately 95 % $^{\circ}$

No.	Item	Uncertainty
1	Conducted Emission (9KHz-150KHz)	±2.88dB
2	Conducted Emission (150KHz-30MHz)	±2.67dB
3	RF power,conducted	±0.70dB
4	Spurious emissions,conducted	±1.19dB
5	All emissions,radiated(<30M) (9KHz-30MHz)	±2.45dB
6	All emissions,radiated(<1G) 30MHz-200MHz	±2.83dB
7	All emissions,radiated(<1G) 200MHz-1000MHz	±2.94dB
8	All emissions,radiated(>1G)	±3.03dB
9	Temperature	±0.5°C
10	Humidity	±2%



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	MOBILE PHONE			
Trade Name	EKO			
Model Name	EKO Omega Q50			
Series Model	EKO Omega			
Model Difference	Only different in mod	del name		
	The EUT is a MOBIL	_E PHONE		
	Operation Frequency:	2402~2480 MHz		
	Modulation Type:	GFSK		
	Radio Technology	BLE		
Product Description	Number Of Channel	40		
	Antenna Designation:	Please see Note 3.		
	Antenna Gain (dBi)	2 dbi		
	Duty Cycle	>98%		
Channel List	Please refer to the N	lote 2.		
	Input: AC100-240V, 150mA, 50/60 Hz			
Adapter	Output: DC 5V, 1000mA			
Dettem	Rated Voltage: 3.7V			
Battery	capacity :1600mAh			
Hardware version number	3195AMB01			
Software version number	N/A			
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.



2

	Channel List							
Channel	Frequenc y (MHz)	Channel	Frequenc y (MHz)	Channel	Frequenc y (MHz)	Channel	Frequency (MHz)	
01	2402	11	2422	21	2442	31	2462	
02	2404	12	2424	22	2444	32	2464	
03	2406	13	2426	23	2446	33	2466	
04	2408	14	2428	24	2448	34	2468	
05	2410	15	2430	25	2450	35	2470	
06	2412	16	2432	26	2452	36	2472	
07	2414	17	2434	27	2454	37	2474	
08	2416	18	2436	28	2456	38	2476	
09	2418	19	2438	29	2458	39	2478	
10	2420	20	2440	30	2460	40	2480	

3.

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
А	EKO	EKO Omega Q50	PIFA Antenna	N/A	2	BT 4.0 ANT



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..

Pretest Mode	Description	Data/Modulation
Mode 1	TX CH1(2402MHz)	1 MHz/GFSK
Mode 2 TX CH20(2440MHz)		1 MHz/GFSK
Mode 3	TX CH40(2480MHz)	1 MHz/GFSK

Note:

- (1) All above mode have been measurement, only 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.
- (3) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

For AC Conducted Emission

1 01710 001100000	Of AC Conducted Emission			
Test Case				
AC Conducted	Mode 4 : Keeping BT TX			
Emission	mode i i i i i i i i i i i i i i i i i i i			

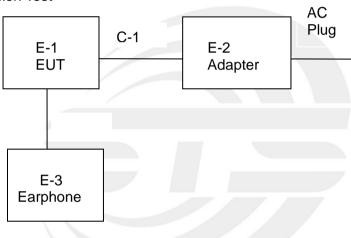


2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test

E-1 EUT

Conducted Emission Test





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-1	MOBILE PHONE	EKO	EKO Omega Q50	N/A	EUT
E-2	Adapter	EKO	EKO Omega Q50	N/A	EUT
E-3 Earphone		N/A	N/A	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable unshielded	NO	100cm	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 <code>"Length_"</code> column.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

reduction rest equipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Spectrum Analyzer	Agilent	E4407B	MY50140340	2015.10.25	2016.10.24
Test Receiver	R&S	ESCI	101427	2015.10.25	2016.10.24
Bilog Antenna	TESEQ	CBL6111D	34678	2015.11.25	2016.11.24
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-1343	2016.03.06	2017.03.05
Horn Antenna	Schwarzbeck	BBHA 9170	9170-0741	2016.03.06	2017.03.05
50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2015.06.06	2016.06.05
PreAmplifier	Agilent	8449B	60538	2015.10.25	2016.10.24
Loop Antenna	ARA	PLA-1030/B	1029	2015.06.08	2016.06.07
Preamplifier	Agilent	8449B	60538	2015.11.05	2016.11.05
Low frequency cable	EM	R01	N/A	N/A	N/A
High frequency cable	SCHWARZBECK	AK9515H	SN-96286/96287	N/A	N/A

Conduction Test equipment

Conduction rest equipment						
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	
EMI Test Receiver	R&S	ESPI	102086	2015.11.20	2016.11.19	
LISN	R&S	ENV216	101242	2015.10.25	2016.10.24	
LISN	EMCO	3810/2NM	000-23625	2015.10.25	2016.10.24	
Conduction Cable	EM	C01	N/A	N/A	N/A	

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
USB RF power sensor	DARE	RPR3006W	15I00041SNO03	2015.10.25	2016.10.24
Spectrum Analyzer	Agilent	E4407B	MY50140340	2015.10.25	2016.10.24
Signal Analyzer	Agilent	N9020A	MY49100060	2015.11.18	2016.11.17





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 15.247&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

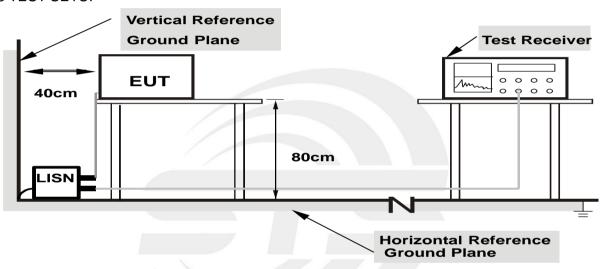
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

Report No.: STS1604183F04

3.2 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.3 TEST SETUP



Note: 1.Support units were connected to second LISN.

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

3.4 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.



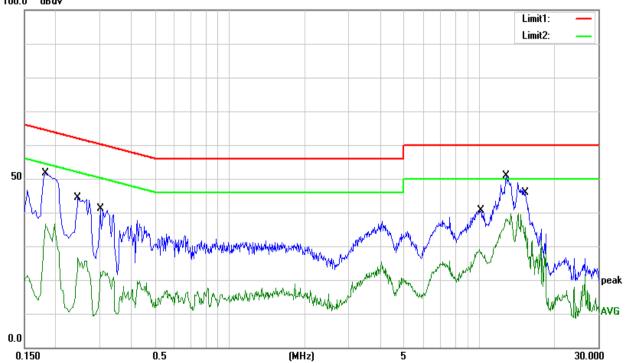
3.5 TEST RESULTS

Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	L
Test Mode:	Mode 4		

Frequency	Reading	Correct	Result	Limit	Margin	Damark
(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	Remark
0.1820	42.43	9.23	51.66	64.39	-12.73	QP
0.1820	27.36	9.23	36.59	54.39	-17.80	AVG
0.2460	35.24	9.18	44.42	61.89	-17.47	QP
0.2460	17.45	9.18	26.63	51.89	-25.26	AVG
0.3020	32.09	9.14	41.23	60.19	-18.96	QP
0.3020	13.39	9.14	22.53	50.19	-27.66	AVG
10.1300	31.21	9.50	40.71	60.00	-19.29	QP
10.1300	19.59	9.50	29.09	50.00	-20.91	AVG
12.8460	41.40	9.46	50.86	60.00	-9.14	QP
12.8460	30.05	9.46	39.51	50.00	-10.49	AVG
15.4340	34.38	9.48	43.86	60.00	-16.14	QP
15.4340	26.10	9.48	35.58	50.00	-14.42	AVG

Remark:

1. Margin = Result (Result =Reading + Factor)-Limit 100.0 dBuV



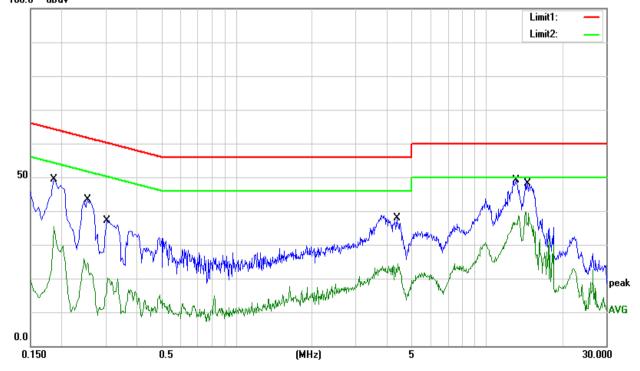


Temperature:	26 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	N
Test Mode:	Mode 4		

Frequency	Reading	Correct	Result	Limit	Margin	Domork
(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	Remark
0.1864	40.00	9.23	49.23	64.20	-14.97	QP
0.1864	26.16	9.23	35.39	54.20	-18.81	AVG
0.2540	34.07	9.18	43.25	61.63	-18.38	QP
0.2540	16.60	9.18	25.78	51.63	-25.85	AVG
0.3020	28.06	9.13	37.19	60.19	-23.00	QP
0.3020	10.91	9.13	20.04	50.19	-30.15	AVG
4.3660	28.54	9.27	37.81	56.00	-18.19	QP
4.3660	15.00	9.27	24.27	46.00	-21.73	AVG
13.1220	39.79	9.42	49.21	60.00	-10.79	QP
13.1220	27.22	9.42	36.64	50.00	-13.36	AVG
14.5780	38.70	9.43	48.13	60.00	-11.87	QP
14.5780	30.30	9.43	39.73	50.00	-10.27	AVG

Remark:

1. Margin = Result (Result =Reading + Factor)-Limit 100.0 dBuV





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 Part 15. 205(a)&209(a) limit in the table 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)

	Class C (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		
Start Frequency	1000 MHz(Peak/AV)		
Stop Frequency	10 th carrier hamonic(Peak/AV)		
RB / VB (emission in restricted	1 MH= /1 MH= A\/ 1 MH= /10 H=		
band)	1 MHz / 1 MHz, AV=1 MHz /10 Hz		

For Band edge

Spectrum Parameter	Setting		
Detector	Peak		
Ctart/Ctan Fraguency	Lower Band Edge: 2300 to 2430 MHz		
Start/Stop Frequency	Upper Band Edge: 2450 to 2500 MHz		
RB / VB (emission in restricted band)	1 MHz / 1 MHz, AV=1 MHz /10 Hz		

Report No.: STS1604183F04



Receiver Parameter	Setting
Attenuation	Auto
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

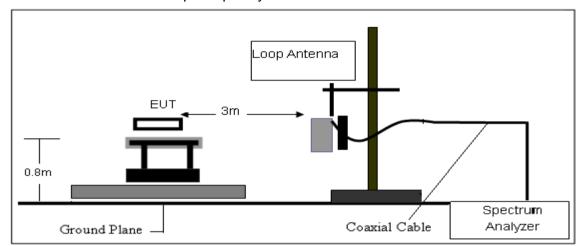
- a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters(above 1GHz is 1.5 m) above the ground at a 3 meter anechoic 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.

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

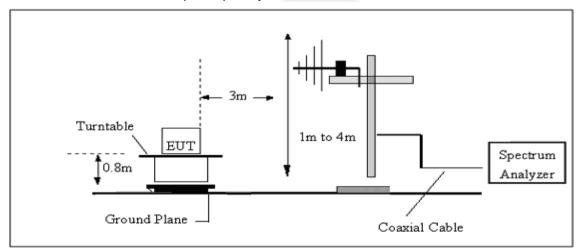


4.3 TEST SETUP

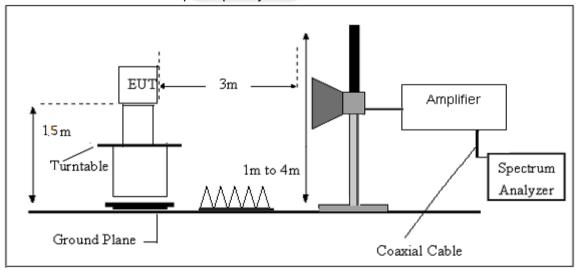
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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.

Report No.: STS1604183F04



4.5 TEST RESULTS

(Between 9KHz - 30 MHz)

Temperature:	20 ℃	Relative Humidtity:	48%	
Pressure:	1010 hPa	Test Voltage:	3.7V from Battery	
Test Mode:	TX Mode	Polarization :		

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.



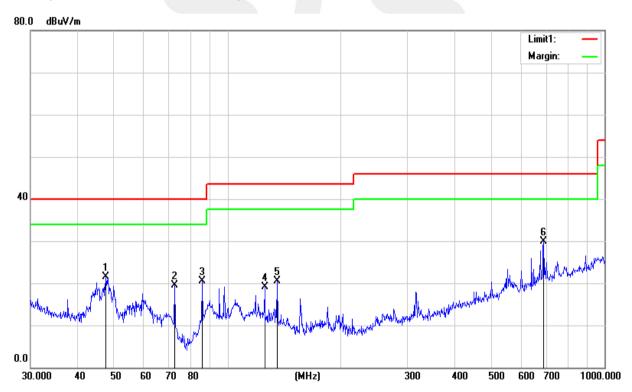
(30MHz -1000MHz)

Temperature:	26 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	Horizontal
Test Voltage:	3.7V from Battery	LIDCT IVIDAD :	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)	
47.4918	41.61	-20.19	21.42	40.00	-18.58	QP
72.3376	43.34	-23.78	19.56	40.00	-20.44	QP
85.5977	41.85	-21.30	20.55	40.00	-19.45	QP
125.4457	36.81	-17.61	19.20	43.50	-24.30	QP
135.5062	37.97	-17.52	20.45	43.50	-23.05	QP
689.5644	35.53	-5.57	29.96	46.00	-16.04	QP

Remark:

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





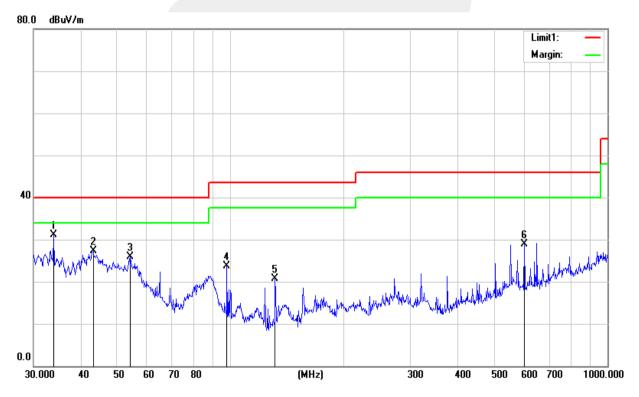
Page 23 of 45 Report No.: STS1604183F04

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	Vertical
Test Voltage:	3.7V from Battery	LIACT IVIANA '	Mode1/2/3 (Mode 3-1M worst mode)

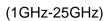
Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
33.9174	44.22	-13.20	31.02	40.00	-8.98	QP
43.2017	45.22	-17.97	27.25	40.00	-12.75	QP
54.2610	48.53	-22.70	25.83	40.00	-14.17	QP
97.7983	43.19	-19.41	23.78	43.50	-19.72	QP
131.2965	38.26	-17.55	20.71	43.50	-22.79	QP
601.4265	36.01	-7.12	28.89	46.00	-17.11	QP

Remark:

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







Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V

GFSK Low Channel

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
3265.26	50.04	-9.80	40.24	74.00	-33.76	PK	Vertical
3265.26	40.01	-9.80	30.21	54.00	-23.79	AV	Vertical
3265.23	50.06	-9.80	40.26	74.00	-33.74	PK	Horizontal
3265.23	40.05	-9.80	30.25	54.00	-23.75	AV	Horizontal
3334.84	52.76	-9.75	43.01	74.00	-30.99	PK	Vertical
3334.84	42.80	-9.75	33.05	54.00	-20.95	AV	Vertical
3334.82	52.76	-9.75	43.01	74.00	-30.99	PK	Horizontal
3334.82	42.76	-9.75	33.01	54.00	-20.99	AV	Horizontal
3349.89	52.52	-9.75	42.77	74.00	-31.23	PK	Vertical
3349.89	42.55	-9.75	32.80	54.00	-21.20	AV	Vertical
3349.92	52.58	-9.75	42.83	74.00	-31.17	PK	Horizontal
3349.92	42.54	-9.75	32.79	54.00	-21.21	AV	Horizontal
4000.22	52.91	-6.60	46.31	74.00	-27.69	PK	Vertical
4000.22	44.91	-6.60	38.31	54.00	-15.69	AV	Vertical
4000.21	51.95	-6.60	45.35	74.00	-28.65	PK	Horizontal
4000.21	44.87	-6.60	38.27	54.00	-15.73	AV	Horizontal
4803.93	60.34	-3.56	56.78	74.00	-17.22	PK	Vertical
4803.93	50.33	-3.56	46.77	54.00	-7.23	AV	Vertical
4804.91	60.34	-3.56	56.78	74.00	-17.22	PK	Horizontal
4804.91	50.31	-3.56	46.75	54.00	-7.25	AV	Horizontal
5360.20	47.27	-2.34	44.93	74.00	-29.07	PK	Vertical
5360.20	39.21	-2.34	36.87	54.00	-17.13	AV	Vertical
5360.20	47.22	-2.34	44.88	74.00	-29.12	PK	Horizontal
5360.20	39.24	-2.34	36.90	54.00	-17.10	AV	Horizontal
7206.29	52.73	3.40	56.13	74.00	-17.87	PK	Vertical
7206.29	44.67	3.40	48.07	54.00	-5.93	AV	Vertical
7206.33	52.74	3.40	56.14	74.00	-17.86	PK	Horizontal
7206.33	44.71	3.40	48.11	54.00	-5.89	AV	Horizontal
8124.42	45.20	4.80	50.00	74.00	-24.00	PK	Vertical



8124.42	35.16	4.80	39.96	54.00	-14.04	AV	Vertical
8124.36	45.20	4.80	50.00	74.00	-24.00	PK	Horizontal
8124.36	35.19	4.80	39.99	54.00	-14.01	AV	Horizontal
9105.09	45.97	5.00	50.97	74.00	-23.03	PK	Vertical
9105.09	35.96	5.00	40.96	54.00	-13.04	AV	Vertical
9105.45	45.95	5.00	50.95	74.00	-23.05	PK	Horizontal
9105.45	35.99	5.00	40.99	54.00	-13.01	AV	Horizontal
11036.36	41.97	10.20	52.17	74.00	-21.83	PK	Vertical
11036.36	31.95	10.20	42.15	54.00	-11.85	AV	Vertical
11036.59	41.92	10.20	52.12	74.00	-21.88	PK	Horizontal
11036.59	31.96	10.20	42.16	54.00	-11.84	AV	Horizontal
13299.74	41.74	12.20	53.94	74.00	-20.06	PK	Vertical
13299.74	31.80	12.20	44.00	54.00	-10.00	AV	Vertical
13299.88	41.81	12.20	54.01	74.00	-19.99	Pk	Horizontal
13299.88	30.76	12.20	42.96	54.00	-11.04	AV	Horizontal
14480.21	41.73	13.40	55.13	74.00	-18.87	PK	Vertical
14480.21	30.72	13.40	44.12	54.00	-9.88	AV	Vertical
14480.20	41.68	13.40	55.08	74.00	-18.92	PK	Horizontal
14480.20	30.71	13.40	44.11	54.00	-9.89	AV	Horizontal
16000.29	41.89	12.40	54.29	74.00	-19.71	PK	Vertical
16000.29	31.78	12.40	44.18	54.00	-9.82	AV	Vertical
16000.20	41.87	12.40	54.27	74.00	-19.73	PK	Horizontal
16000.20	31.10	12.40	43.50	54.00	-10.50	AV	Horizontal
17998.30	31.98	23.10	55.08	74.00	-18.92	PK	Vertical
17998.30	22.02	23.10	45.12	54.00	-8.88	AV	Vertical
17998.16	32.02	23.10	55.12	74.00	-18.88	PK	Horizontal
17998.16	22.01	23.10	45.11	54.00	-8.89	AV	Horizontal



GFSK Mid Channel

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
3265.16	50.03	-9.80	40.23	74.00	-33.77	PK	Vertical
3265.16	40.02	-9.80	30.22	54.00	-23.78	AV	Vertical
3265.17	50.06	-9.80	40.26	74.00	-33.74	PK	Horizontal
3265.17	40.06	-9.80	30.26	54.00	-23.74	AV	Horizontal
3334.80	52.79	-9.75	43.04	74.00	-30.96	PK	Vertical
3334.80	42.80	-9.75	33.05	54.00	-20.95	AV	Vertical
3334.75	52.80	-9.75	43.05	74.00	-30.95	PK	Horizontal
3334.75	42.79	-9.75	33.04	54.00	-20.96	AV	Horizontal
3349.77	52.56	-9.75	42.81	74.00	-31.19	PK	Vertical
3349.77	42.51	-9.75	32.76	54.00	-21.24	AV	Vertical
3349.81	52.57	-9.75	42.82	74.00	-31.18	PK	Horizontal
3349.81	42.55	-9.75	32.80	54.00	-21.20	AV	Horizontal
4000.12	52.92	-6.60	46.32	74.00	-27.68	PK	Vertical
4000.12	44.94	-6.60	38.34	54.00	-15.66	AV	Vertical
4000.63	51.93	-6.60	45.33	74.00	-28.67	PK	Horizontal
4000.63	44.89	-6.60	38.29	54.00	-15.71	AV	Horizontal
4880.85	60.32	-3.56	56.76	74.00	-17.24	PK	Vertical
4880.85	50.31	-3.56	46.75	54.00	-7.25	AV	Vertical
4880.80	60.31	-3.56	56.75	74.00	-17.25	PK	Horizontal
4880.80	50.30	-3.56	46.74	54.00	-7.26	AV	Horizontal
5360.10	47.23	-2.34	44.89	74.00	-29.11	PK	Vertical
5360.10	39.22	-2.34	36.88	54.00	-17.12	AV	Vertical
5360.02	47.26	-2.34	44.92	74.00	-29.08	PK	Horizontal
5360.02	39.21	-2.34	36.87	54.00	-17.13	AV	Horizontal
7320.20	52.74	3.40	56.14	74.00	-17.86	PK	Vertical
7320.20	44.64	3.40	48.04	54.00	-5.96	AV	Vertical
7320.58	52.72	3.40	56.12	74.00	-17.88	PK	Horizontal
7320.58	44.70	3.40	48.10	54.00	-5.90	AV	Horizontal
8124.37	45.19	4.80	49.99	74.00	-24.01	PK	Vertical
8124.37	35.18	4.80	39.98	54.00	-14.02	AV	Vertical
8124.69	45.18	4.80	49.98	74.00	-24.02	PK	Horizontal
8124.69	35.21	4.80	40.01	54.00	-13.99	AV	Horizontal
9105.36	45.98	5.00	50.98	74.00	-23.02	PK	Vertical
9105.36	36.01	5.00	41.01	54.00	-12.99	AV	Vertical
9105.63	45.97	5.00	50.97	74.00	-23.03	PK	Horizontal
9105.63	35.98	5.00	40.98	54.00	-13.02	AV	Horizontal



Page 27 of 45 Report No.: STS1604183F04

41.98	10.20	52.18	74.00	-21.82	PK	Vertical
31.96	10.20	42.16	54.00	-11.84	AV	Vertical
41.96	10.20	52.16	74.00	-21.84	PK	Horizontal
31.95	10.20	42.15	54.00	-11.85	AV	Horizontal
41.76	12.20	53.96	74.00	-20.04	PK	Vertical
31.78	12.20	43.98	54.00	-10.02	AV	Vertical
41.78	12.20	53.98	74.00	-20.02	Pk	Horizontal
30.79	12.20	42.99	54.00	-11.01	AV	Horizontal
41.70	13.40	55.10	74.00	-18.90	PK	Vertical
30.73	13.40	44.13	54.00	-9.87	AV	Vertical
41.70	13.40	55.10	74.00	-18.90	PK	Horizontal
30.72	13.40	44.12	54.00	-9.88	AV	Horizontal
41.86	12.40	54.26	74.00	-19.74	PK	Vertical
31.81	12.40	44.21	54.00	-9.79	AV	Vertical
41.86	12.40	54.26	74.00	-19.74	PK	Horizontal
31.11	12.40	43.51	54.00	-10.49	AV	Horizontal
31.98	23.10	55.08	74.00	-18.92	PK	Vertical
22.03	23.10	45.13	54.00	-8.87	AV	Vertical
32.02	23.10	55.12	74.00	-18.88	PK	Horizontal
21.98	23.10	45.08	54.00	-8.92	AV	Horizontal
	31.96 41.96 31.95 41.76 31.78 41.78 30.79 41.70 30.73 41.70 30.72 41.86 31.81 41.86 31.11 31.98 22.03 32.02	31.96 10.20 41.96 10.20 31.95 10.20 41.76 12.20 31.78 12.20 41.78 12.20 41.70 13.40 30.73 13.40 41.70 13.40 30.72 13.40 41.86 12.40 31.81 12.40 41.86 12.40 31.11 12.40 31.98 23.10 22.03 23.10 32.02 23.10	31.96 10.20 42.16 41.96 10.20 52.16 31.95 10.20 42.15 41.76 12.20 53.96 31.78 12.20 43.98 41.78 12.20 53.98 30.79 12.20 42.99 41.70 13.40 55.10 30.73 13.40 44.13 41.70 13.40 55.10 30.72 13.40 44.12 41.86 12.40 54.26 31.81 12.40 44.21 41.86 12.40 54.26 31.11 12.40 43.51 31.98 23.10 55.08 22.03 23.10 55.12	31.96 10.20 42.16 54.00 41.96 10.20 52.16 74.00 31.95 10.20 42.15 54.00 41.76 12.20 53.96 74.00 31.78 12.20 43.98 54.00 41.78 12.20 53.98 74.00 30.79 12.20 42.99 54.00 41.70 13.40 55.10 74.00 30.73 13.40 44.13 54.00 41.70 13.40 55.10 74.00 30.72 13.40 44.12 54.00 41.86 12.40 54.26 74.00 31.81 12.40 44.21 54.00 31.11 12.40 43.51 54.00 31.98 23.10 55.08 74.00 22.03 23.10 55.12 74.00	31.96 10.20 42.16 54.00 -11.84 41.96 10.20 52.16 74.00 -21.84 31.95 10.20 42.15 54.00 -11.85 41.76 12.20 53.96 74.00 -20.04 31.78 12.20 43.98 54.00 -10.02 41.78 12.20 53.98 74.00 -20.02 30.79 12.20 42.99 54.00 -11.01 41.70 13.40 55.10 74.00 -18.90 30.73 13.40 44.13 54.00 -9.87 41.70 13.40 55.10 74.00 -18.90 30.72 13.40 44.12 54.00 -9.88 41.86 12.40 54.26 74.00 -19.74 31.81 12.40 54.26 74.00 -19.74 31.11 12.40 43.51 54.00 -19.74 31.98 23.10 55.08 74.00 -18.92	31.96 10.20 42.16 54.00 -11.84 AV 41.96 10.20 52.16 74.00 -21.84 PK 31.95 10.20 42.15 54.00 -11.85 AV 41.76 12.20 53.96 74.00 -20.04 PK 31.78 12.20 43.98 54.00 -10.02 AV 41.78 12.20 53.98 74.00 -20.02 Pk 30.79 12.20 42.99 54.00 -11.01 AV 41.70 13.40 55.10 74.00 -18.90 PK 30.73 13.40 44.13 54.00 -9.87 AV 41.70 13.40 55.10 74.00 -18.90 PK 30.72 13.40 44.12 54.00 -9.88 AV 41.86 12.40 54.26 74.00 -19.74 PK 31.81 12.40 44.21 54.00 -9.79 AV 41.86



GFSK High Channel

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Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	
3265.16	50.02	-9.80	40.22	74.00	-33.78	PK	Vertical
3265.16	40.04	-9.80	30.24	54.00	-23.76	AV	Vertical
3265.16	50.04	-9.80	40.24	74.00	-33.76	PK	Horizontal
						AV	Horizontal
3265.16	40.02	-9.80	30.22	54.00	-23.78		
3334.77	52.77	-9.75	43.02	74.00	-30.98	PK	Vertical
3334.77	42.80	-9.75	33.05	54.00	-20.95	AV	Vertical
3334.74	52.83	-9.75	43.08	74.00	-30.92	PK	Horizontal
3334.74	42.80	-9.75	33.05	54.00	-20.95	AV	Horizontal
3349.79	52.51	-9.75	42.76	74.00	-31.24	PK	Vertical
3349.79	42.52	-9.75	32.77	54.00	-21.23	AV	Vertical
3349.78	52.58	-9.75	42.83	74.00	-31.17	PK	Horizontal
3349.78	42.58	-9.75	32.83	54.00	-21.17	AV	Horizontal
4000.16	52.94	-6.60	46.34	74.00	-27.66	PK	Vertical
4000.16	44.94	-6.60	38.34	54.00	-15.66	AV	Vertical
4000.12	51.91	-6.60	45.31	74.00	-28.69	PK	Horizontal
4000.12	44.92	-6.60	38.32	54.00	-15.68	AV	Horizontal
4960.84	60.32	-3.56	56.76	74.00	-17.24	PK	Vertical
4960.84	50.33	-3.56	46.77	54.00	-7.23	AV	Vertical
4960.83	60.31	-3.56	56.75	74.00	-17.25	PK	Horizontal
4960.83	50.30	-3.56	46.74	54.00	-7.26	AV	Horizontal
5360.14	47.24	-2.34	44.90	74.00	-29.10	PK	Vertical
5360.14	39.26	-2.34	36.92	54.00	-17.08	AV	Vertical
5360.14	47.22	-2.34	44.88	74.00	-29.12	PK	Horizontal
5360.14	39.24	-2.34	36.90	54.00	-17.10	AV	Horizontal
7440.16	52.75	3.40	56.15	74.00	-17.85	PK	Vertical
7440.16	44.68	3.40	48.08	54.00	-5.92	AV	Vertical
7440.23	52.75	3.40	56.15	74.00	-17.85	PK	Horizontal
7440.23	44.75	3.40	48.15	54.00	-5.85	AV	Horizontal
8124.37	45.15	4.80	49.95	74.00	-24.05	PK	Vertical
8124.37	35.16	4.80	39.96	54.00	-14.04	AV	Vertical
8124.38	45.20	4.80	50.00	74.00	-24.00	PK	Horizontal
8124.38	35.21	4.80	40.01	54.00	-13.99	AV	Horizontal
9105.01	46.00	5.00	51.00	74.00	-23.00	PK	Vertical
9105.01	35.99	5.00	40.99	54.00	-13.01	AV	Vertical
9105.05	45.99	5.00	50.99	74.00	-23.01	PK	Horizontal
9105.05	35.96	5.00	40.96	54.00	-13.04	AV	Horizontal



11036.26	41.98	10.20	52.18	74.00	-21.82	PK	Vertical
11036.26	31.95	10.20	42.15	54.00	-11.85	AV	Vertical
11036.30	41.93	10.20	52.13	74.00	-21.87	PK	Horizontal
11036.30	31.99	10.20	42.19	54.00	-11.81	AV	Horizontal
13299.77	41.81	12.20	54.01	74.00	-19.99	PK	Vertical
13299.77	31.78	12.20	43.98	54.00	-10.02	AV	Vertical
13299.79	41.85	12.20	54.05	74.00	-19.95	Pk	Horizontal
13299.79	30.78	12.20	42.98	54.00	-11.02	AV	Horizontal
14480.16	41.67	13.40	55.07	74.00	-18.93	PK	Vertical
14480.16	30.72	13.40	44.12	54.00	-9.88	AV	Vertical
14480.08	41.74	13.40	55.14	74.00	-18.86	PK	Horizontal
14480.08	30.72	13.40	44.12	54.00	-9.88	AV	Horizontal
16000.14	41.86	12.40	54.26	74.00	-19.74	PK	Vertical
16000.14	31.80	12.40	44.20	54.00	-9.80	AV	Vertical
16000.15	41.86	12.40	54.26	74.00	-19.74	PK	Horizontal
16000.15	31.10	12.40	43.50	54.00	-10.50	AV	Horizontal
17998.29	31.98	23.10	55.08	74.00	-18.92	PK	Vertical
17998.29	22.03	23.10	45.13	54.00	-8.87	AV	Vertical
17998.17	32.06	23.10	55.16	74.00	-18.84	PK	Horizontal
17998.17	22.03	23.10	45.13	54.00	-8.87	AV	Horizontal

Note:

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

Emission Level = Meter Reading + Factor

Margin = Limit - Emission Leve

2) Above did not show the frequency of the emission peaks form is at least 20 decibel limits, transmitting frequency noise mainly comes from the environment.



4.6 TEST RESULTS (RESTRICTED BANDS REQUIREMENTS)

Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission Level (dBµV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
			GFSI	<			
2340.0	69.17	-12.99	56.18	74	-17.82	PK	Vertical
2340.0	55.00	-12.99	42.01	54	-11.99	AV	Vertical
2340.0	70.20	-12.99	57.21	74	-16.79	PK	Horizontal
2340.0	54.07	-12.99	41.08	54	-12.92	AV	Horizontal
2483.5	70.97	-12.78	58.19	74	-15.81	PK	Vertical
2483.5	53.96	-12.78	41.18	54	-12.82	AV	Vertical
2483.5	71.08	-12.78	58.30	74	-15.70	PK	Horizontal
2483.5	53.99	-12.78	41.21	54	-12.79	AV	Horizontal

Remark:

Low measurement frequencies is range from 2310 to 2400 MHz, high measurement frequencies is range from 2483.5 to 2500 MHz.

Only show the worst point data of the emissions in the frequency 2310-2400 MHz and 2483.5-2500 MHz.

^{1.} Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Report No.: STS1604183F04

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.

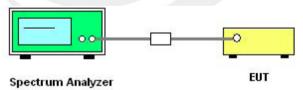
5.2 TEST PROCEDURE

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		
Ctart/Stan Fraguency	Lower Band Edge: 2310 – 2404 MHz		
Start/Stop Frequency	Upper Band Edge: 2478 – 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%	
Pressure :	1012 hPa	Test Voltage :	DC 3.7V	
Test Mode :	TX Mode /CH01, CH20, CH40			

01 CH

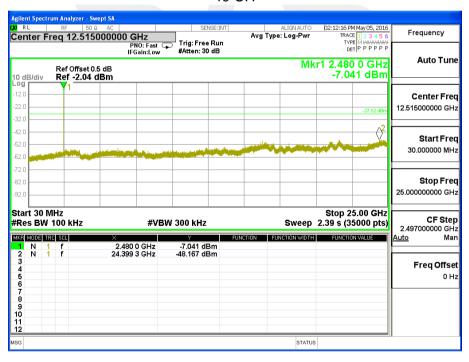




20 CH

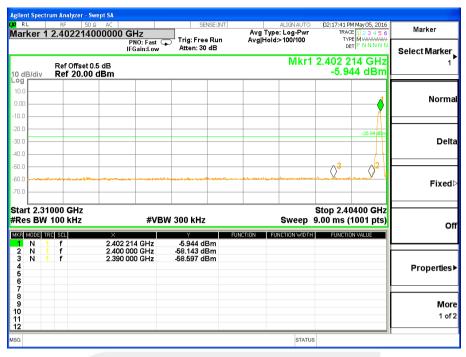


40 CH





01 CH



40 CH





Report No.: STS1604183F04

6. POWER SPECTRAL DENSITY TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (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: $100 \text{ kHz} \ge \text{RBW} \ge 3 \text{ kHz}$.
- 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.



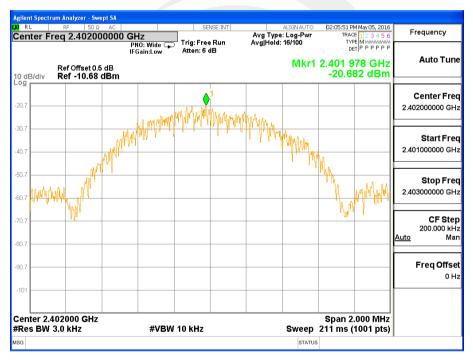


6.5 TEST RESULTS

Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX Mode /CH01, CH20, CH40		

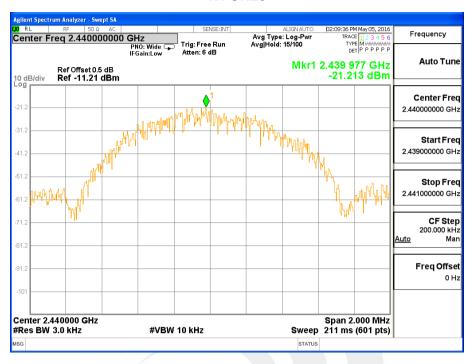
Frequency	Power Density (dBm/3kHz)	Limit (dBm)	Result
2402 MHz	-20.682	≤8	PASS
2440 MHz	-21.213	≤8	PASS
2480 MHz	-20.924	≤8	PASS

TX CH01





TX CH20



TX CH40



Report No.: STS1604183F04



7. BANDWIDTH TEST

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (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 \geqslant 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 \geqslant 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.: STS1604183F04



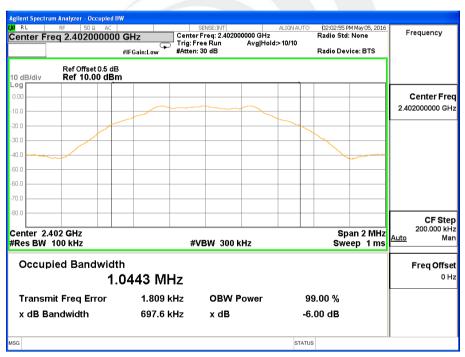
7.5 TEST RESULTS

Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX Mode /CH01, CH20, CH40		

Remark: PEAK DETECTOR IS USED

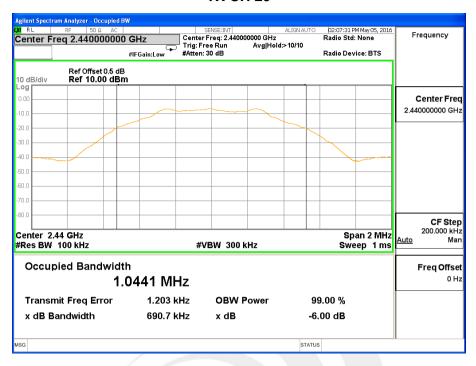
Frequency	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2402 MHz	0.698	>=500KHz	PASS
2440 MHz	0.691	>=500KHz	PASS
2480 MHz	0.697	>=500KHz	PASS

TX CH 01

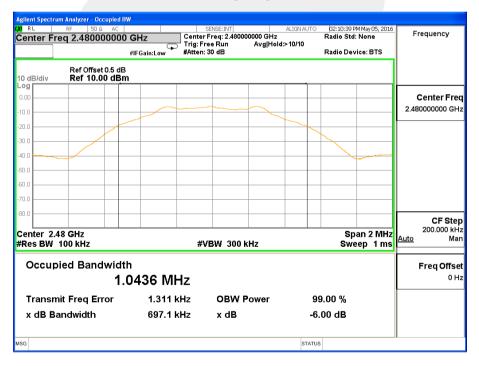




TX CH 20



TX CH 40







8. PEAK OUTPUT POWER TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (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 Sensor&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.



Report No.: STS1604183F04



8.5 TEST RESULTS

Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX Mode /CH01, CH20, CH40		

TX Mode				
Test Channe	Frequency	Conducted Output Power		LIMIT
lest Charme	(MHz)	Peak (dBm)	AVG (dBm)	dBm
CH01	2402	-4.921	-7.125	30
CH20	2440	-4.714	-6.925	30
CH40	2480	-4.632	-6.847	30



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 PIFA Antenna. It comply with the standard requirement.





Radiated Measurement Photos







Conducted Measurement Photos



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