



RADIO TEST REPORT

Report No: STS1609122F03

Issued for

Santok Limited

Santok House, Unit L, Braintree Industrial Estate, Braintree Road, South Ruislip, Middlesex, United Kingdom

L A B

Product Name:	Smart Phone
Brand Name:	stk
Model Name:	Storm 2e X
Series Model:	N/A
FCC ID:	2AE7RSTKSTORM2EX
Test Standard:	FCC Part 15.247

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Report No.: STS1609122F03

TEST RESULT CERTIFICATION

Applica	ant's name	 :	Santok	Limited
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Address...... Santok House, Unit L, Braintree Industrial Estate, Braintree Road,

South Ruislip, Middlesex, United Kingdom

Manufacture's Name Santok Limited

Address Santok House, Unit L, Braintree Industrial Estate, Braintree Road,

South Ruislip, Middlesex, United Kingdom

Product description

Product name...... Smart Phone

Model and/or type reference : Storm 2e X

Series Model: N/A

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 (s) of performance of tests.....: 18 Sep. 2016~28 Sep. 2016

Date of Issue 29 Sep. 2016

Test Result: Pass

Testing Engineer :

(Tony Liu)

Technical Manager:

Authorized Signatory:

(Vita Li)

1900

(Bovey Yang)



Table of Contents	Page
1. SUMMARY OF TEST RESULTS	6
1.1 TEST FACTORY	7
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	12
2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS	13
3. EMC EMISSION TEST	14
3.1 CONDUCTED EMISSION MEASUREMENT	14
3.2 RADIATED EMISSION MEASUREMENT	18
4. CONDUCTED SPURIOUS & BAND EDGE EMISSION	28
4.1 APPLIED PROCEDURES / LIMIT	28
4.2 TEST PROCEDURE	28
4.3 DEVIATION FROM STANDARD	28
4.4 TEST SETUP	28
4.5 EUT OPERATION CONDITIONS	28
4.6 TEST RESULTS	29
5. POWER SPECTRAL DENSITY TEST	38
5.1 APPLIED PROCEDURES / LIMIT	38
5.2 TEST PROCEDURE	38
5.3 DEVIATION FROM STANDARD	38
5.4 TEST SETUP	38
5.5 EUT OPERATION CONDITIONS	38
5.6 TEST RESULTS	39
6. BANDWIDTH TEST	45
6.1 APPLIED PROCEDURES / LIMIT	45
6.2 TEST PROCEDURE	45
6.3 DEVIATION FROM STANDARD	45
6.4 TEST SETUP	45
6.5 EUT OPERATION CONDITIONS	45
6.6 TEST RESULTS	46



Report No.: STS1609122F03



Table of Contents	Page
7. PEAK OUTPUT POWER TEST	52
7.1 APPLIED PROCEDURES / LIMIT	52
7.2 TEST PROCEDURE	52
7.3 DEVIATION FROM STANDARD	52
7.4 TEST SETUP	52
7.5 EUT OPERATION CONDITIONS	52
7.6 TEST RESULTS	53
8. ANTENNA REQUIREMENT	54
8.1 STANDARD REQUIREMENT	54
8.2 EUT ANTENNA	54
APPENDIX - PHOTOS OF TEST SETUP	55



Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	29 Sep. 2016	STS1609122F03	ALL	Initial Issue





1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards: KDB 558074 D01 DTS Meas Guidance v03r05

FCC Part 15.247,Subpart C				
Standard Section	Test Item	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 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 y \pm U \cdot where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2 \cdot 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	Smart Phone			
Trade Name	stk			
Model Name	Storm 2e X	Storm 2e X		
Series Model	N/A			
Model Difference	N/A			
Product Description	The EUT is a Smare Operation Frequency: Modulation Type: Bit Rate of Transmitter Number Of Channel Antenna Designation: Antenna Gain (dBi) Duty Cycle	802.11b/g/n 20: 2412~2462 MHz CCK/BPSK/QPSK/16QAM 802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps 802.11n(20MHz): 65/58.5/52/39/26/19.5/13/6.5 Mbps 802.11b/g/n20: 11CH Please see Note 3. -0.48 dbi >98%		
Channel List	Please refer to the	Note 2.		
Adapter	Input: AC 100-240V, 400mA, 50/60 Hz Output: DC 5V, 1A			
Battery	Rated Voltage: 3.7V			
,	Capacity: 1300mAh			
Hardware version number	Z157_E1_BOM_V1.0			
Software version number	Storm_2e+_DS_921_V0.0.1_20160830			
Connecting I/O Port(s)	Please refer to the	User's Manual		

Note:

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



2

Operation Frequency of channel		
8	02.11b/g/n(20MHz)	
Channel	Frequency	
01	2412	
02	2417	
03	2422	
04	2427	
05	2432	
06	2437	
07	2442	
08	2447	
09	2452	
10	2457	
11	2462	

3 Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Carrier Frequency Channel

2.4GHz Test Frequency:

For 802.11b/g/n (HT20)		
Channel Freq.(MHz)		
01	2412	
06	2437	
11	2462	

3

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	stk	Storm 2e X	PIFA Antenna	N/A	-0.48	WIFI Antenna



2.2 DESCRIPTION OF TEST MODES

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

Worst Mode	Description	Data Rate
Mode 1	TX IEEE 802.11b CH1	1 Mbps
Mode 2	TX IEEE 802.11b CH6	1 Mbps
Mode 3	TX IEEE 802.11 b CH11	1 Mbps
Mode 4	TX IEEE 802.11g CH1	6 Mbps
Mode 5	TX IEEE 802.11g CH6	6 Mbps
Mode 6	TX IEEE 802.11g CH11	6 Mbps
Mode 7	TX IEEE 802.11n HT20 CH1	MCS 0
Mode 8	TX IEEE 802.11n HT20 CH6	MCS 0
Mode 9	TX IEEE 802.11n HT20 CH11	MCS 0

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.
- (3) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

AC Conducted Emission

Test Case			
AC Conducted	ModelO: Keeping WIFLTY		
Emission	Mode10: Keeping WIFI TX		

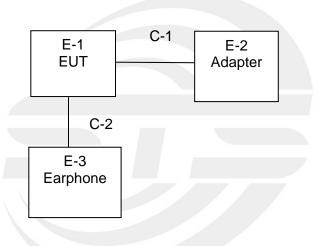


2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious EmissionTest

E-1 EUT

Conducted Emission Test





2.4 DESCRIPTION OF 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
E-1	Smart Phone	stk	Storm 2e X	N/A	EUT
E-2	Adapter	stk	Storm 2e X	N/A	EUT
E-3	Earphone	N/A	N/A	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable shielded line (Charging)	NO	100cm	N/A
C-2	Earphone line	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".



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
	Manadatato	1,750 110.	Conditio.	Last calibration	Canbratoa artii
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	2016.06.06	2017.06.05
PreAmplifier	Agilent	8449B	60538	2015.10.25	2016.10.24
Loop Antenna	ARA	PLA-1030/B	1029	2016.06.08	2017.06.07
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
Semi-anechoic chamber	Changling	966	N/A	2015.10.25	2016.10.24

Conduction Test 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
Shielding Room	Changling	854	N/A	2015.10.25	2016.10.24

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. 207(a) limit in the table below has to be followed.

FREQUENCY (MHz)	Conducted Emission limit (dBuV)		
FREQUENCT (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

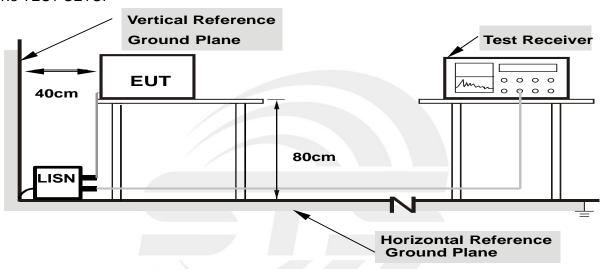
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



3.1.2 TEST PROCEDURE

- a. The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. 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.

3.1.3 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

3.1.4 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.



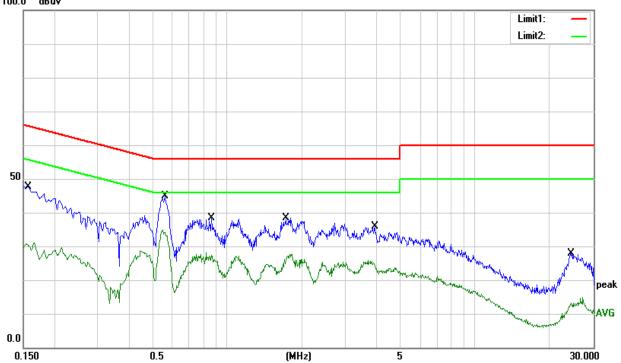
3.1.5 TEST RESULT

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	L
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 10

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	Remark
0.1580	38.52	9.23	47.75	65.57	-17.82	QP
0.1580	20.88	9.23	30.11	55.57	-25.46	AVG
0.5620	35.70	9.17	44.87	56.00	-11.13	QP
0.5620	24.84	9.17	34.01	46.00	-11.99	AVG
0.8620	29.15	9.20	38.35	56.00	-17.65	QP
0.8620	18.09	9.20	27.29	46.00	-18.71	AVG
1.7180	29.25	9.22	38.47	56.00	-17.53	QP
1.7180	16.69	9.22	25.91	46.00	-20.09	AVG
3.9340	26.68	9.26	35.94	56.00	-20.06	QP
3.9340	15.10	9.26	24.36	46.00	-21.64	AVG
24.3460	18.07	9.73	27.80	60.00	-32.20	QP
24.3460	3.27	9.73	13.00	50.00	-37.00	AVG

Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Margin = Result (Result = Reading + Factor)-Limit 100.0 dBuV





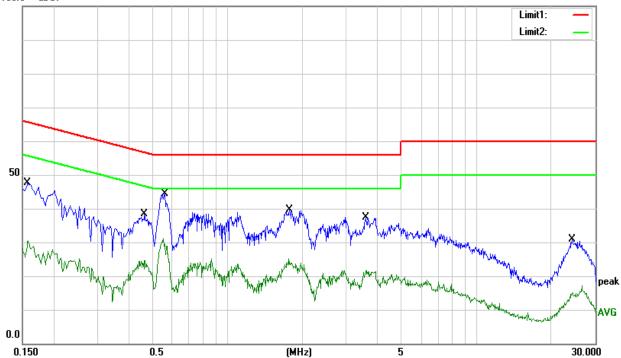
Page 17 of 56 Report No.: STS1609122F03

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	Ν
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 10

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	Remark
0.1580	38.30	9.23	47.53	65.57	-18.04	QP
0.1580	21.15	9.23	30.38	55.57	-25.19	AVG
0.4660	29.17	9.17	38.34	56.58	-18.24	QP
0.4660	15.47	9.17	24.64	46.58	-21.94	AVG
0.5620	35.31	9.17	44.48	56.00	-11.52	QP
0.5620	20.16	9.17	29.33	46.00	-16.67	AVG
1.7740	30.33	9.25	39.58	56.00	-16.42	QP
1.7740	14.61	9.25	23.86	46.00	-22.14	AVG
3.5900	28.06	9.26	37.32	56.00	-18.68	QP
3.5900	12.40	9.26	21.66	46.00	-24.34	AVG
24.1740	20.90	9.87	30.77	60.00	-29.23	QP
24.1740	4.99	9.87	14.86	50.00	-35.14	AVG

Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Margin = Result (Result = Reading + Factor)-Limit 100.0 dBuV





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 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 (0.009MHz - 1000MHz)

Frequencies	Field Strength	Measurement Distance
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 (1000MHz-25GHz)

FREQUENCY (MHz)	Class B (dBuV/m) (at 3M)		
FREQUENCT (MITZ)	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 MHz /3MHz		
band)	I WINZ /SIVINZ		

For Band edge

Spectrum Parameter	Setting		
Detector	Peak		
Stort/Ston 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 /3MHz		



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

3.2.2 TEST PROCEDURE

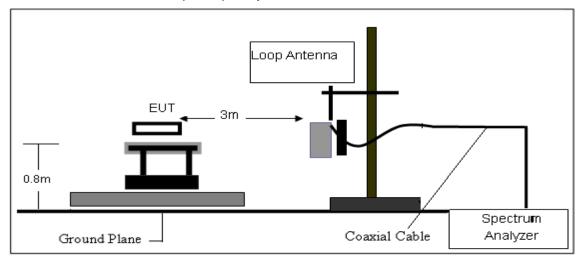
- a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz
- b. The EUT was placed on the top of a rotating table 0.8 meters(above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the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

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

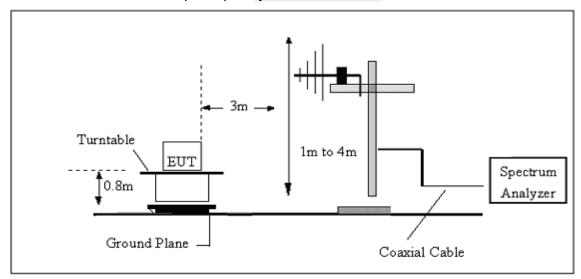


3.2.3 TEST SETUP

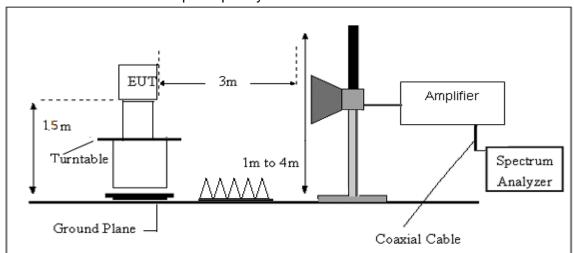
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



3.2.4 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.



3.2.5 TEST RESULT

9KHz-30MHz

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

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



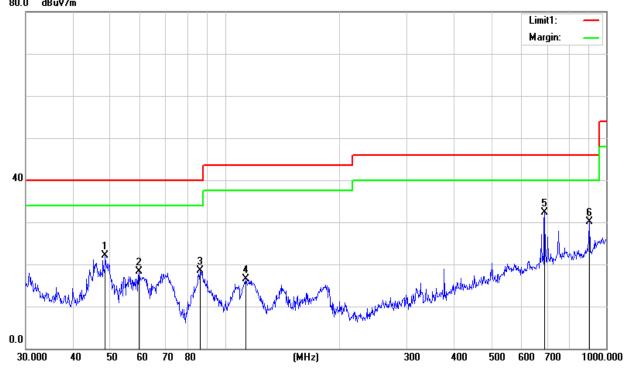
(30MHz - 1000MHz)

Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	LIEST VOITAGE •	DC 3.7V from battery
1 1 A ST 1 1 1 1 1 2 A 1	Mode 1/2/3/4/5/6/7/8/9 (Mode 3-1M worst mode)	Polarization:	Horizontal

Frequency	Reading	Correct	rect Result Li		Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
48.5016	42.77	-20.71	22.06	40.00	-17.94	QP
59.4405	42.56	-24.18	18.38	40.00	-21.62	QP
86.2001	39.73 -21.15 18.58 40.00		40.00	-21.42	QP	
113.3163	3.3163 34.60 -18.13		16.47	43.50	-27.03	QP
689.5644	37.88	-5.57	32.31 46.00		-13.69	QP
903.3094	32.27	-2.14	30.13	46.00	-15.87	QP

Remark:

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





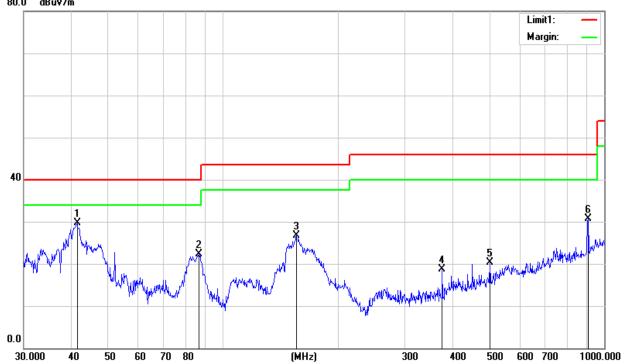
Page 23 of 56 Report No.: STS1609122F03

Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Hest Voltage •	DC 3.7V from battery
11001 1/1000 .	Mode 1/2/3/4/5/6/7/8/9 (Mode 3-1M worst mode)	Polarization :	Vertical

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
41.4215	46.70	-17.06	29.64	40.00	-10.36	QP
86.5030	43.47	-21.07	22.40	40.00	-17.60	QP
155.9101	45.05	-18.28	26.77	43.50	-16.73	QP
375.9385	31.39	-12.73	18.66	46.00	-27.34	QP
501.1790	29.15	-8.90	20.25	46.00	-25.75	QP
909.6667	32.54	-1.93	30.61	46.00	-15.39	QP

Remark:.

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





(1000MHz-25GHz)

802.11b Low Channel

					COV OII					
	Meter			Antenna	Orrected	Emission				
Frequency	Reading	Amplifier	Loss	Factor	Factor	Level	Limits	Margin	Detector	
(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	Comment
		1		Low Cl	hannel (2412 N	MHz)	1			T
3265.10	49.94	44.70	6.70	28.20	-9.80	40.14	74.00	-33.86	PK	Vertical
3265.10	39.93	44.70	6.70	28.20	-9.80	30.13	54.00	-23.87	AV	Vertical
3265.06	49.93	44.70	6.70	28.20	-9.80	40.13	74.00	-33.87	PK	Horizontal
3265.06	39.97	44.70	6.70	28.20	-9.80	30.17	54.00	-23.83	AV	Horizontal
4824.78	60.23	44.20	9.04	31.60	-3.56	56.67	74.00	-17.33	PK	Vertical
4824.78	50.25	44.20	9.04	31.60	-3.56	46.69	54.00	-7.31	AV	Vertical
4824.81	60.27	44.20	9.04	31.60	-3.56	56.71	74.00	-17.29	PK	Horizontal
4824.81	50.23	44.20	9.04	31.60	-3.56	46.67	54.00	-7.33	AV	Horizontal
5360.09	47.14	44.20	9.86	32.00	-2.34	44.80	74.00	-29.20	PK	Vertical
5360.09	39.14	44.20	9.86	32.00	-2.34	36.80	54.00	-17.20	AV	Vertical
5360.07	47.23	44.20	9.86	32.00	-2.34	44.89	74.00	-29.11	PK	Horizontal
5360.07	39.18	44.20	9.86	32.00	-2.34	36.84	54.00	-17.16	AV	Horizontal
7236.18	52.66	43.50	11.40	35.50	3.40	56.06	74.00	-17.94	PK	Vertical
7236.18	44.62	43.50	11.40	35.50	3.40	48.02	54.00	-5.98	AV	Vertical
7236.16	52.65	43.50	11.40	35.50	3.40	56.05	74.00	-17.95	PK	Horizontal
7236.16	44.62	43.50	11.40	35.50	3.40	48.02	54.00	-5.98	AV	Horizontal
11036.22	41.90	43.60	14.30	39.50	10.20	52.10	74.00	-21.90	PK	Vertical
11036.22	31.86	43.60	14.30	39.50	10.20	42.06	54.00	-11.94	AV	Vertical
11036.47	41.86	43.60	14.30	39.50	10.20	52.06	74.00	-21.94	PK	Horizontal
11036.47	31.90	43.60	14.30	39.50	10.20	42.10	54.00	-11.90	AV	Horizontal
13299.62	41.72	42.60	15.90	38.90	12.20	53.92	74.00	-20.08	PK	Vertical
13299.62	31.76	42.60	15.90	38.90	12.20	43.96	54.00	-10.04	AV	Vertical
13299.74	41.76	42.60	15.90	38.90	12.20	53.96	74.00	-20.04	PK	Horizontal
13299.74	30.69	42.60	15.90	38.90	12.20	42.89	54.00	-11.11	AV	Horizontal
16000.15	41.76	42.70	18.00	37.10	12.40	54.16	74.00	-19.84	PK	Vertical
16000.15	31.76	42.70	18.00	37.10	12.40	44.16	54.00	-9.84	AV	Vertical
16000.04	41.74	42.70	18.00	37.10	12.40	54.14	74.00	-19.86	PK	Horizontal
16000.04	31.03	42.70	18.00	37.10	12.40	43.43	54.00	-10.57	AV	Horizontal
17998.14	31.86	42.70	19.40	46.50	23.20	55.06	74.00	-18.94	PK	Vertical
17998.14	21.89	42.70	19.40	46.50	23.20	45.09	54.00	-8.91	AV	Vertical
17998.01	31.93	42.70	19.40	46.50	23.20	55.13	74.00	-18.87	PK	Horizontal
17998.01	21.94	42.70	19.40	46.50	23.20	45.14	54.00	-8.86	AV	Horizontal
		I	I	-	<u> </u>	<u> </u>	I			l .



802.11b Mid Channel

	Meter			Antenna	Orrected	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 (2437 MHz)									
3265.00	49.87	44.70	6.70	28.20	-9.80	40.07	74.00	-33.93	PK	Vertical
3265.00	39.84	44.70	6.70	28.20	-9.80	30.04	54.00	-23.96	AV	Vertical
3264.95	49.84	44.70	6.70	28.20	-9.80	40.04	74.00	-33.96	PK	Horizontal
3264.95	39.88	44.70	6.70	28.20	-9.80	30.08	54.00	-23.92	AV	Horizontal
4874.76	60.17	44.20	9.04	31.60	-3.56	56.61	74.00	-17.39	PK	Vertical
4874.76	50.17	44.20	9.04	31.60	-3.56	46.61	54.00	-7.39	AV	Vertical
4874.70	60.18	44.20	9.04	31.60	-3.56	56.62	74.00	-17.38	PK	Horizontal
4874.70	50.16	44.20	9.04	31.60	-3.56	46.60	54.00	-7.40	AV	Horizontal
5359.97	47.09	44.20	9.86	32.00	-2.34	44.75	74.00	-29.25	PK	Vertical
5359.97	39.07	44.20	9.86	32.00	-2.34	36.73	54.00	-17.27	AV	Vertical
5360.00	47.11	44.20	9.86	32.00	-2.34	44.77	74.00	-29.23	PK	Horizontal
5360.00	39.05	44.20	9.86	32.00	-2.34	36.71	54.00	-17.29	AV	Horizontal
7336.05	52.57	43.50	11.40	35.50	3.40	55.97	74.00	-18.03	PK	Vertical
7336.05	44.54	43.50	11.40	35.50	3.40	47.94	54.00	-6.06	AV	Vertical
7336.04	52.59	43.50	11.40	35.50	3.40	55.99	74.00	-18.01	PK	Horizontal
7336.04	44.53	43.50	11.40	35.50	3.40	47.93	54.00	-6.07	AV	Horizontal
11036.11	41.84	43.60	14.30	39.50	10.20	52.04	74.00	-21.96	PK	Vertical
11036.11	31.79	43.60	14.30	39.50	10.20	41.99	54.00	-12.01	AV	Vertical
11036.11	41.84	43.60	14.30	39.50	10.20	52.04	74.00	-21.96	PK	Horizontal
11036.11	31.81	43.60	14.30	39.50	10.20	42.01	54.00	-11.99	AV	Horizontal
13299.71	41.60	42.60	15.90	38.90	12.20	53.80	74.00	-20.20	PK	Vertical
13299.71	31.67	42.60	15.90	38.90	12.20	43.87	54.00	-10.13	AV	Vertical
13299.62	41.69	42.60	15.90	38.90	12.20	53.89	74.00	-20.11	PK	Horizontal
13299.62	30.67	42.60	15.90	38.90	12.20	42.87	54.00	-11.13	AV	Horizontal
15999.98	41.71	42.70	18.00	37.10	12.40	54.11	74.00	-19.89	PK	Vertical
15999.98	31.70	42.70	18.00	37.10	12.40	44.10	54.00	-9.90	AV	Vertical
15999.99	41.72	42.70	18.00	37.10	12.40	54.12	74.00	-19.88	PK	Horizontal
15999.99	30.98	42.70	18.00	37.10	12.40	43.38	54.00	-10.62	AV	Horizontal
17998.13	31.82	42.70	19.40	46.50	23.20	55.02	74.00	-18.98	PK	Vertical
17998.13	21.87	42.70	19.40	46.50	23.20	45.07	54.00	-8.93	AV	Vertical
17998.00	31.88	42.70	19.40	46.50	23.20	55.08	74.00	-18.92	PK	Horizontal
17998.00	21.86	42.70	19.40	46.50	23.20	45.06	54.00	-8.94	AV	Horizontal





802.11b High Channel

	Meter			Antenna	Orrected	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 (2462 MHz)									
3265.07	49.81	44.70	6.70	28.20	-9.80	40.01	74.00	-33.99	PK	Vertical
3265.07	39.76	44.70	6.70	28.20	-9.80	29.96	54.00	-24.04	AV	Vertical
3265.04	49.72	44.70	6.70	28.20	-9.80	39.92	74.00	-34.08	PK	Horizontal
3265.04	39.78	44.70	6.70	28.20	-9.80	29.98	54.00	-24.02	AV	Horizontal
4924.82	60.08	44.20	9.04	31.60	-3.56	56.52	74.00	-17.48	PK	Vertical
4924.82	50.11	44.20	9.04	31.60	-3.56	46.55	54.00	-7.45	AV	Vertical
4924.78	60.13	44.20	9.04	31.60	-3.56	56.57	74.00	-17.43	PK	Horizontal
4924.78	50.05	44.20	9.04	31.60	-3.56	46.49	54.00	-7.51	AV	Horizontal
5360.04	46.96	44.20	9.86	32.00	-2.34	44.62	74.00	-29.38	PK	Vertical
5360.04	38.97	44.20	9.86	32.00	-2.34	36.63	54.00	-17.37	AV	Vertical
5360.03	47.04	44.20	9.86	32.00	-2.34	44.70	74.00	-29.30	PK	Horizontal
5360.03	39.00	44.20	9.86	32.00	-2.34	36.66	54.00	-17.34	AV	Horizontal
7386.16	52.47	43.50	11.40	35.50	3.40	55.87	74.00	-18.13	PK	Vertical
7386.16	44.50	43.50	11.40	35.50	3.40	47.90	54.00	-6.10	AV	Vertical
7386.20	52.51	43.50	11.40	35.50	3.40	55.91	74.00	-18.09	PK	Horizontal
7386.20	44.46	43.50	11.40	35.50	3.40	47.86	54.00	-6.14	AV	Horizontal
11036.21	41.75	43.60	14.30	39.50	10.20	51.95	74.00	-22.05	PK	Vertical
11036.21	31.72	43.60	14.30	39.50	10.20	41.92	54.00	-12.08	AV	Vertical
11036.19	41.77	43.60	14.30	39.50	10.20	51.97	74.00	-22.03	PK	Horizontal
11036.19	31.77	43.60	14.30	39.50	10.20	41.97	54.00	-12.03	AV	Horizontal
16000.09	41.60	42.70	18.00	37.10	12.40	54.00	74.00	-20.00	PK	Vertical
16000.09	31.60	42.70	18.00	37.10	12.40	44.00	54.00	-10.00	AV	Vertical
16000.05	41.60	42.70	18.00	37.10	12.40	54.00	74.00	-20.00	PK	Horizontal
16000.05	30.91	42.70	18.00	37.10	12.40	43.31	54.00	-10.69	AV	Horizontal
17998.22	31.71	42.70	19.40	46.50	23.20	54.91	74.00	-19.09	PK	Vertical
17998.22	21.79	42.70	19.40	46.50	23.20	44.99	54.00	-9.01	AV	Vertical
17998.09	31.79	42.70	19.40	46.50	23.20	54.99	74.00	-19.01	PK	Horizontal
17998.09	21.78	42.70	19.40	46.50	23.20	44.98	54.00	-9.02	AV	Horizontal

Remark:

- 1. Factor = Antenna Factor + Cable Loss Pre-amplifier.
- 2. Scan with 802.11b, 802.11g, 802.11n (HT-20) the worst case is 802.11b. Emission Level = Meter Reading + Factor Margin = Limit Emission Leve
- 3. 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.



3.2.6 TEST RESULTS (Band edge)

	Meter			Antenna	Orrected	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
					802.11b					
2400.00	69.18	43.80	4.91	25.90	-12.99	56.19	74	-17.81	PK	Vertical
2400.00	55.02	43.80	4.91	25.90	-12.99	42.03	54	-11.97	AV	Vertical
2400.00	70.22	43.80	4.91	25.90	-12.99	57.23	74	-16.77	PK	Horizontal
2400.00	54.14	43.80	4.91	25.90	-12.99	41.15	54	-12.85	AV	Horizontal
2483.50	71.00	43.80	5.12	25.90	-12.78	58.22	74	-15.78	PK	Vertical
2483.50	54.03	43.80	5.12	25.90	-12.78	41.25	54	-12.75	AV	Vertical
2483.50	71.08	43.80	5.12	25.90	-12.78	58.30	74	-15.70	PK	Horizontal
2483.50	54.05	43.80	5.12	25.90	-12.78	41.27	54	-12.73	AV	Horizontal
					802.11g					
2400.00	67.96	43.80	4.91	25.90	-12.99	54.97	74	-19.03	PK	Vertical
2400.00	54.10	43.80	4.91	25.90	-12.99	41.11	54	-12.89	AV	Vertical
2400.00	67.13	43.80	4.91	25.90	-12.99	54.14	74	-19.86	PK	Horizontal
2400.00	54.95	43.80	4.91	25.90	-12.99	41.96	54	-12.04	AV	Horizontal
2483.50	67.07	43.80	5.12	25.90	-12.78	54.29	74	-19.71	PK	Vertical
2483.50	54.27	43.80	5.12	25.90	-12.78	41.49	54	-12.51	AV	Vertical
2483.50	67.04	43.80	5.12	25.90	-12.78	54.26	74	-19.74	PK	Horizontal
2483.50	54.18	43.80	5.12	25.90	-12.78	41.40	54	-12.60	AV	Horizontal
					802.11n20					
2400.00	67.09	43.80	4.91	25.90	-12.99	54.10	74	-19.90	PK	Vertical
2400.00	54.03	43.80	4.91	25.90	-12.99	41.04	54	-12.96	AV	Vertical
2400.00	67.03	43.80	4.91	25.90	-12.99	54.04	74	-19.96	PK	Horizontal
2400.00	54.08	43.80	4.91	25.90	-12.99	41.09	54	-12.91	AV	Horizontal
2483.50	67.17	43.80	5.12	25.90	-12.78	54.39	74	-19.61	PK	Vertical
2483.50	54.08	43.80	5.12	25.90	-12.78	41.30	54	-12.70	AV	Vertical
2483.50	67.01	43.80	5.12	25.90	-12.78	54.23	74	-19.77	PK	Horizontal
2483.50	54.03	43.80	5.12	25.90	-12.78	41.25	54	-12.75	AV	Horizontal

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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.



4. CONDUCTED SPURIOUS & BAND EDGE EMISSION

4.1 APPLIED PROCEDURES / 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.

4.2 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/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)	100 KHz/300 KHz		
Trace-Mode:	Max hold		

4.3 DEVIATION FROM STANDARD

No deviation.

4.4 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 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.

4.5 EUT OPERATION CONDITIONS

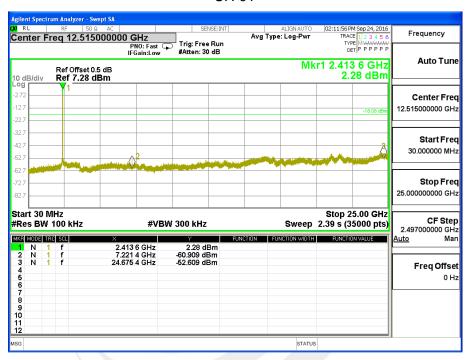
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



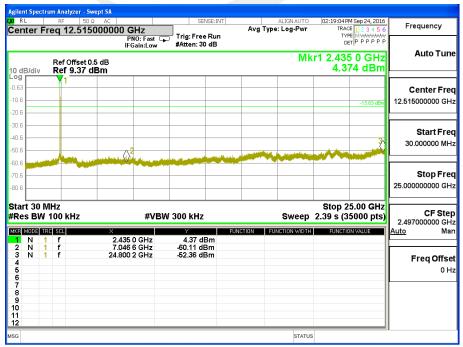
4.6 TEST RESULTS

Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX b Mode /CH01, CH06, CH1	1	

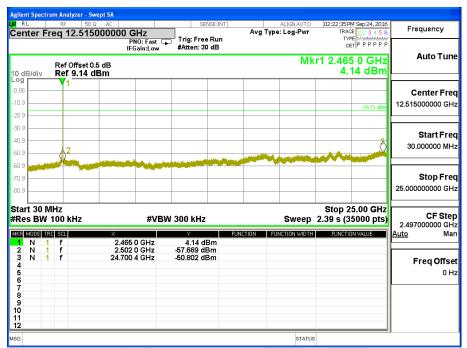
CH 01



CH 06



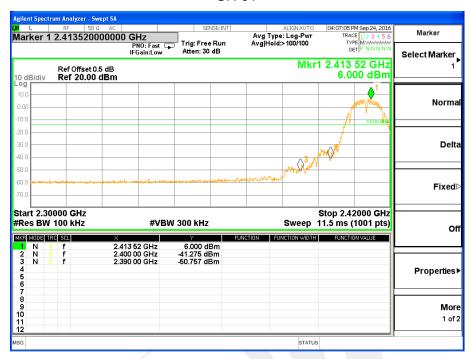


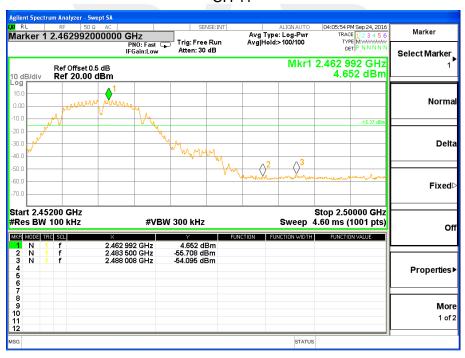




Band edge

CH 01



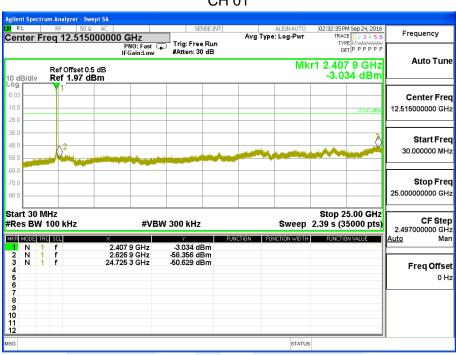


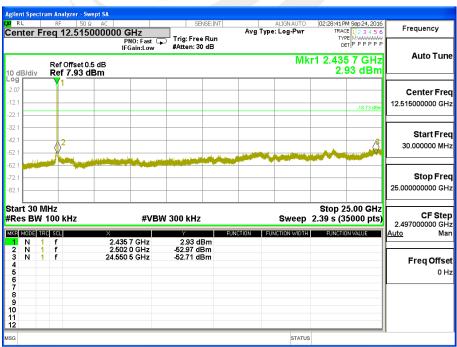


Page 32 of 56 Report No.: STS1609122F03

Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX g Mode /CH01, CH06, CH1	1	

CH 01











Band edge

CH 01



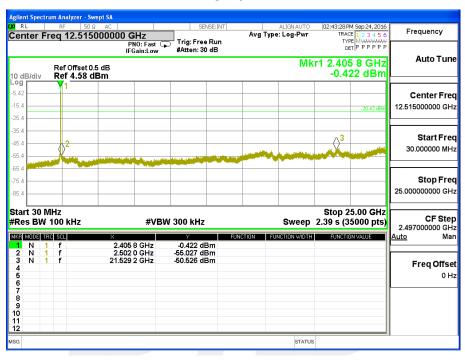


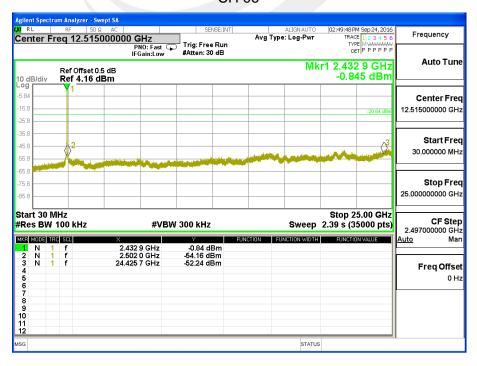


Page 35 of 56 Report No.: STS1609122F03

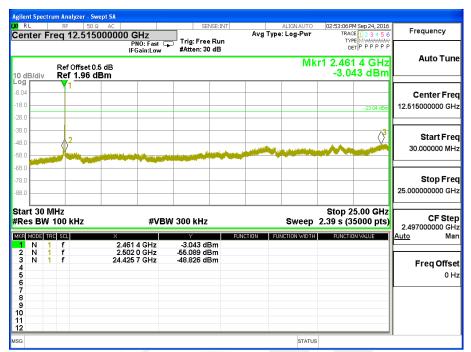
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX n Mode(20M) /CH01, CH06	, CH11	

CH 01











Band edge

CH 01



CH 11





5. POWER SPECTRAL DENSITY TEST

5.1 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

5.2 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 100 kHz \geq RBW \geq 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.

5.3 DEVIATION FROM STANDARD No deviation.

5.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

5.5 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.



5.6 TEST RESULTS

Temperature:	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX b Mode /CH01, CH06, CH11		

Frequency	Power Density (dBm/3kHz)	Limit (dBm)	Result
2412 MHz	-9.853	8≥	PASS
2437 MHz	-10.173	≤8	PASS
2462 MHz	-9.690	≤8	PASS







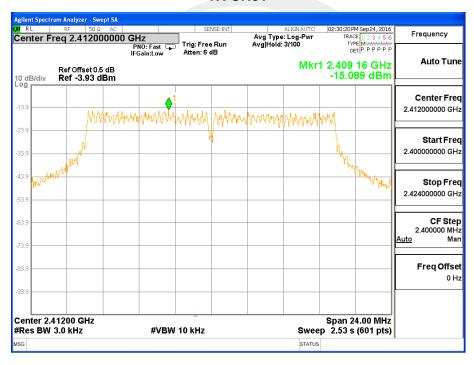




Page 41 of 56 Report No.: STS1609122F03

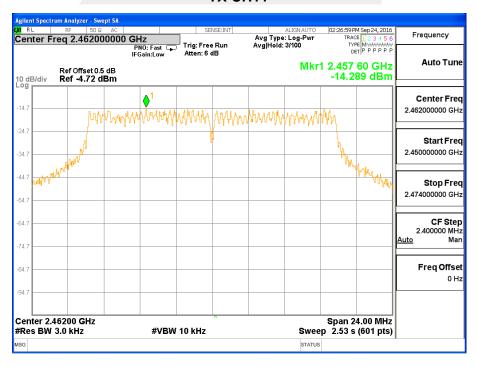
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX g Mode /CH01, CH06, CH11		

Frequency	Power Density (dBm/3kHz)	Limit (dBm)	Result
2412 MHz	-15.089	≤8	PASS
2437 MHz	-14.143	≤8	PASS
2462 MHz	-14.289	≤8	PASS











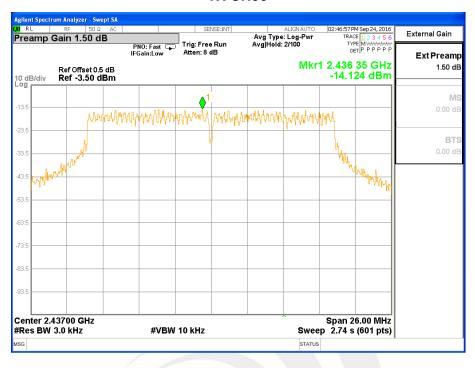
Page 43 of 56 Report No.: STS1609122F03

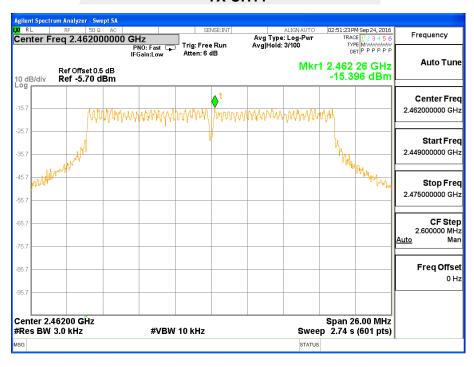
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

Frequency	Power Density (dBm/3kHz)	Limit (dBm)	Result
2412 MHz	-14.419	≤8	PASS
2437 MHz	-14.124	≤8	PASS
2462 MHz	-15.396	≤8	PASS











6. BANDWIDTH TEST

6.1 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

6.2 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≥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≥6 dB.

6.3 DEVIATION FROM STANDARD No deviation.

6.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

6.5 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.





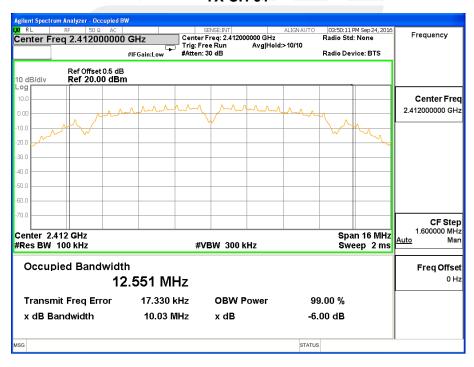


6.6 TEST RESULTS

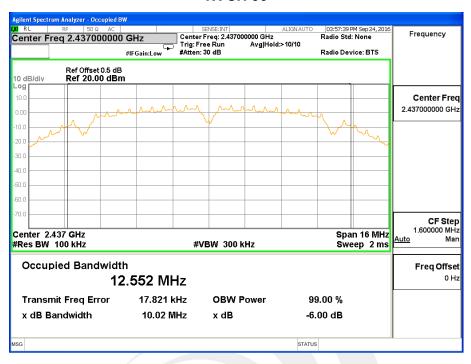
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX b Mode /CH01, CH06, CH11		

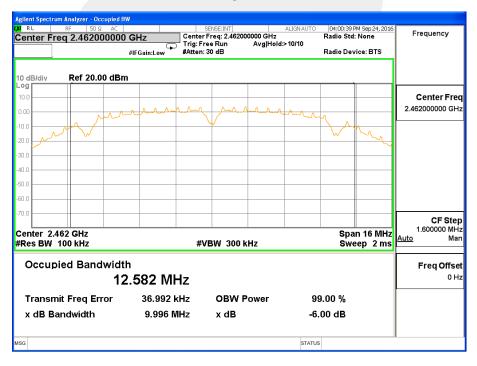
Remark: PEAK DETECTOR IS USED

Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2412 MHz	10.03	≥500KHz	PASS
2437 MHz	10.02	≥500KHz	PASS
2462 MHz	9.996	≥500KHz	PASS







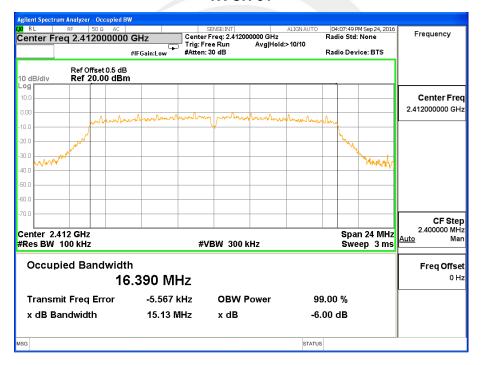




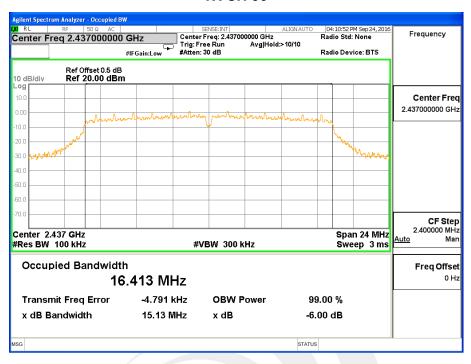
Page 48 of 56 Report No.: STS1609122F03

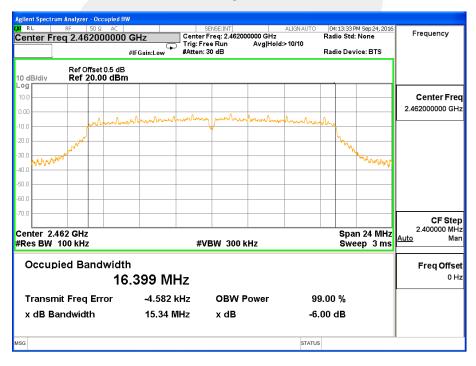
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX g Mode /CH01, CH06, CH11		

Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2412 MHz	15.13	≥500KHz	PASS
2437 MHz	15.13	≥500KHz	PASS
2462 MHz	15.34	≥500KHz	PASS







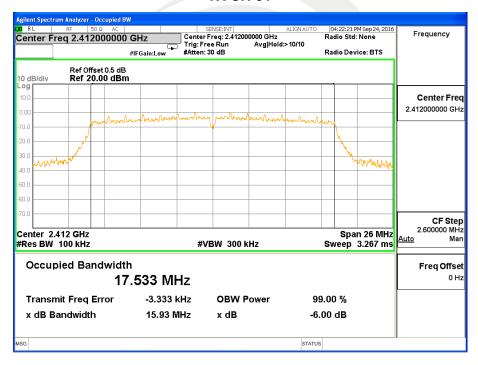




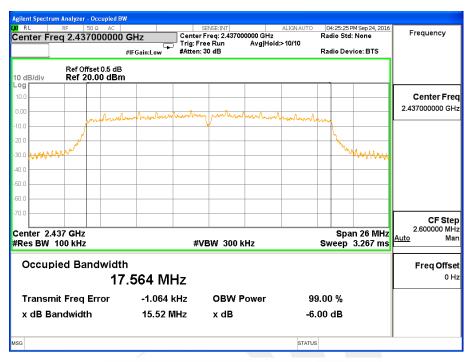
Page 50 of 56 Report No.: STS1609122F03

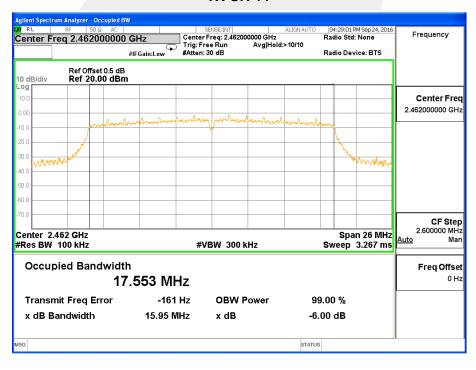
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2412 MHz	15.93	≥500KHz	PASS
2437 MHz	15.52	≥500KHz	PASS
2462 MHz	15.95	≥500KHz	PASS













7. PEAK OUTPUT POWER TEST

7.1 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				

7.2 TEST PROCEDURE

a. The EUT was directly connected to the Power Sensor&PC

7.3 DEVIATION FROM STANDARD No deviation.

7.4 TEST SETUP

EUT	Power Sensor
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7.5 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.



7.6 TEST RESULTS

Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V

TX 802.11b Mode					
Test	Frequency	Conducted	LIMIT		
Channe	(MHz)	Peak(dBm)	AVG(dBm)	dBm	
CH01	2412	15.30	15.20	30	
CH06	2437	16.10	16.00	30	
CH11	2462	16.60	16.50	30	

TX 802.11g Mode					
Test	Frequency	Conducted (Output Power	LIMIT	
Channe	(MHz)	Peak(dBm)	AVG(dBm)	dBm	
CH01	2412	13.10	13.00	30	
CH06	2437	13.50	13.40	30	
CH11	2462	14.10	13.90	30	

TX 802.11n20 Mode					
Test	Frequency	Conducted Output Power		LIMIT	
Channe	(MHz)	Peak(dBm)	AVG(dBm)	dBm	
CH01	2412	12.50	12.40	30	
CH06	2437	13.40	13.30	30	
CH11	2462	13.90	13.80	30	



8. ANTENNA REQUIREMENT

8.1 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.

8.2 EUT ANTENNA

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





APPENDIX - PHOTOS OF TEST SETUP









Conducted Measurement Photos



****END OF THE REPORT***