

**FCC Radio Test Report** 

# FCC ID: 2ABW2GX1301-NA

FCC 47 CFR Part 15 Subpart C

**Product**: Tablet Pc

Trade Name: N/A

Model Number: GX1301-NA

#### Issued for

Swisscom Hospitality Services 22710 Executive Drive, Dulles, VA 20166, U.S.A.

#### Issued by

Shenzhen STONE Testing Technology Co., Ltd.

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# **TEST RESULT CERTIFICATION**

Product		: Tablet Pc							
Applicant		: Swisscom Hospitality	Service	S					
Address		: 22710 Executive Drive,	22710 Executive Drive, Dulles, VA 20166, U.S.A.						
Manufacturer		: Swisscom Hospitality	Swisscom Hospitality Services						
Address		: 22710 Executive Drive, Dulles, VA 20166, U.S.A.							
Model No		: GX1301-NA							
Standards		: FCC Part 15 Subpart	C (15.	247)					
Test Method		: ANSI C63.4: 2003							
and found complia mentioned above. which was tested. due to production t	nce The Oth	has been tested by Shenzher with the requirements set forth results of testing in this reporter similar equipment will not no rance and measurement unce	h in the t apply ecessa	teclonly	nnical standards to the product/system,				
Date(s) of performan	ice d	of test 2014-02-10 to	2014-0	2-24					
Test Result		: Pass							
Testing by	:	Linna lin	Date	:	2014-02-24				
	-	(Linna Liu)		-					
Check by	:	(Andy Huang)	Date	:	2014-02-25				
Approved by	:	Sthan chen (Ethan Chen)	Date	:	2014-02-26				



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1. TEST SUMMARY

Test procedures according to the technical standards:

	FCC Part 15 Subpart C (15.247)				
Standard Section	Test Item	Judgment	Remark		
15.207	AC Power Conducted Emission	PASS			
15.247(d)	Transmitter Radiated Emissions	PASS			
15.247(b)(3)	Output Power	PASS			
15.247(a)(2)	6dB RF Bandwidht	PASS			
15.247(e)	Power Spectral Density	PASS			
15.247(c)	Out of Band Conducted Spurious Emission	PASS			
15.247(d)	Band Edge Measurement	PASS			
15.247(c)	Occupied Bandwidth Measurement	PASS			
15.203	Antenna Requirement	PASS			

# NOTE:

- (1)" N/A" denotes test is not applicable in this Test Report
- (2) The test results of this report relate only to the tested sample(s) identified in this report.

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#### 1.1 TEST FACILITY

Shenzhen STONE Testing Technology Co., Ltd.

Add.: F/6, Bldg.12, Zhongxing Industrial City, Chuangye Rd., Nanshan District, Shenzhen, Guangdong, China

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

FCC Registration No.: 323508

#### 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 %.

#### A. Conducted Emission:

The measurement uncertainty is evaluated as  $\pm$  3.2 dB.

#### B. Radiated Measurement:

The measurement uncertainty is evaluated as  $\pm$  3.7 dB.



# 2. GENERAL INFORMATION

# 2.1 GENERAL DESCRIPTION OF EUT

Equipment	Tablet Pc
Model Name	GX1301-NA
Additional Model Number(s)	N/A
Model Difference	N/A
Frequency Range	IEEE 802.11b/g/n(HT20): 2412~2462 MHz Bluetooth(Version: 3.0): 2402~2480 MHz
Modulation Type	IEEE 802.11b: DSSS IEEE 802.11g:OFDM IEEE 802.11n:OFDM Bluetooth: GFSK/ $\pi$ /4-DQPSK/8-DPSK
RF Output Power	IEEE 802.11b: 8.54 dBm IEEE 802.11g: 8.13 dBm IEEE 802.11n: 8.26 dBm
Antenna Type	PIFA Antenna (Gain: 0 dBi)
Power Source	DC power from AC/DC Adapter  DC power from USB cable by host system  DC power by Li-ion Battery
Power Rating	AC/DC Adapter: Input: AC 120~240V 50/60 Hz Output: DC5V 2A DC 5.0V from USB cable Li-ion Battery DC 3.7V
Remark	Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.

#### Note:

- (1) This Test Report is FCC Part 15 Subpart C, 15.247 for IEEE 802.11b/g/n. And the Test procedure follows the FCC KDB 558075 D01 DTS Meas Guidance V02.
- (2) For 15B and 15C(Bluetooth) compliance please refer the 15B test report and Bluetooth radio test report.

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2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	WiFi TX Mode
Mode 2	WiFi TX 802.11b Mode
Mode 3	WiFi TX 802.11g Mode
Mode 4	WiFi TX 802.11n Mode

For Conducted Test				
Final Test Mode	Description			
Mode 2	WiFi TX Mode			

For Radiated Test				
Final Test Mode	Description			
Mode 1	WiFi TX Mode			
Mode 2	WiFi TX 802.11b Mode			
Mode 3	WiFi TX 802.11g Mode			
Mode 4	WiFi TX 802.11n Mode			

### Note:

- (1) Software used to control the EUT for staying in continuous transmitting mode was programmed. After verification, all tests were carried out with the worst case test modes as shown below.
- (2) IEEE 802.11b Mode: Channel (2412/2437/2462 MHz) with 1 Mbps data rate were chosen for full testing.
- (3) IEEE 802.11g Mode: Channel (2412/2437/2462 MHz) with 6 Mbps data rate were chosen for full testing.
- (4) IEEE 802.11n(HT20) Mode:
  Channel (2412/2437/2462 MHz) with 6.5 Mbps data rate were chosen for full testing.
- (5) By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that "X axis" position was the worst, then the final test was executed the worst condition and test data were recorded in this report.

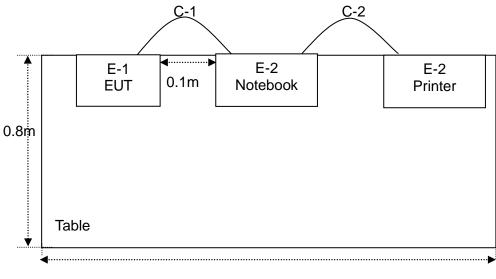
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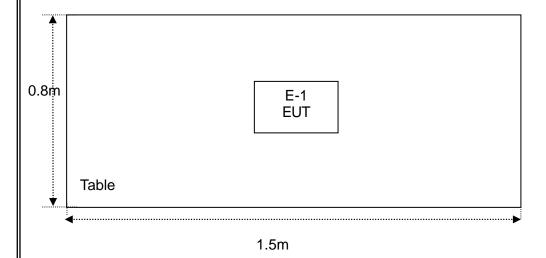
# 2.3 DESCRIPTION OF TEST SETUP

# **Conducted Emission**



#### 1.5m

# **Radiated Emission**



2.4 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL



configuration during the tests.

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

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Tablet PC	/	GX1301-NA	N/A	EUT
E-2	Notebook	LENOVO	E430C	VDN33651J8	
E-3	Printer	HP	5015N	H5004E612	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	0.5m	USB Cable
C-2	YES	NO	1.5m	USB Cable

#### 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>FLength</code> <code>\_ column</code>.
- (3) "YES" means "shielded" "with core"; "NO" means "unshielded" "without core".

#### 2.5 EUT Exercise Software

Test Software: WIFIRF TEST.exe

IEEE 802.11b:The command set for RF power-DEF IEEE 802.11g:The command set for RF power-DEF IEEE 802.11n:The command set for RF power-DEF

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3. CONDUCTED EMISSION TEST

### 3.1 CONDUCTED EMISSION MEASUREMENT (Frequency Range 150KHz-30MHz)

	Quasi-peak	Average
FREQUENCY (MHz)	dBuV	dBuV
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

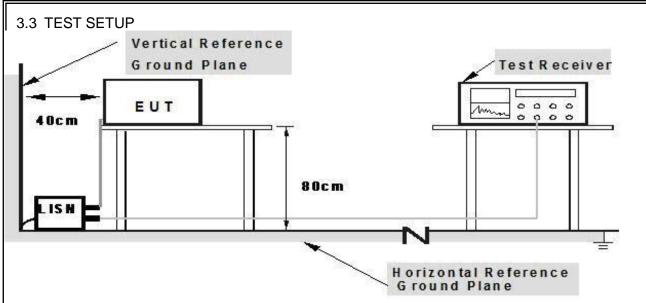
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

#### 3.2 TEST PROCEDURE

- a. The EUT was placed 0.8 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.

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

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

#### 3.4 TEST INSTRUMENTS

Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
LISN	R&S	NSLK81	8126466	Jul. 06, 2012	Jul. 05, 2014	1 year
LISN	R&S	NSLK81	8126487	Dec. 25, 2012	Dec. 24, 2013	1 year
50Ω Switch	ANRITSU CORP	MP59B	6200983704	Jul. 06, 2012	Jul. 05, 2014	1 year
Test Cable	N/A	C01	N/A	Jul. 06, 2012	Jul. 05, 2014	1 year
Test Cable	N/A	C02	N/A	Jul. 06, 2012	Jul. 05, 2014	1 year
Test Cable	N/A	C03	N/A	Jul. 06, 2012	Jul. 05, 2014	1 year
EMI Test Receiver	R&S	ESCI	1166.595	Jul. 06, 2012	Jul. 05, 2014	1 year
Passive Voltage Probe	ESH2-Z3	R&S	100196	Jul. 06, 2012	Jul. 05, 2014	1 year

#### 3.5 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.

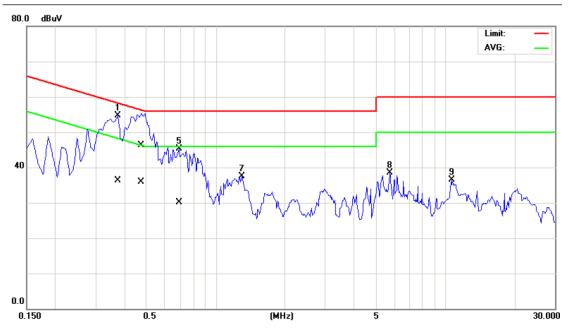


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# 3.6 TEST RESULTS

EUT:	Tablet Pc	Model Name. :	GX1301-NA
Temperature :	<b>26</b> ℃	Relative Humidity:	56%
Pressure:	1010hPa	Test Date :	2014-02-20
Test Mode:	Mode 1	Phase :	Line
Test Voltage :	120V/ 60Hz		

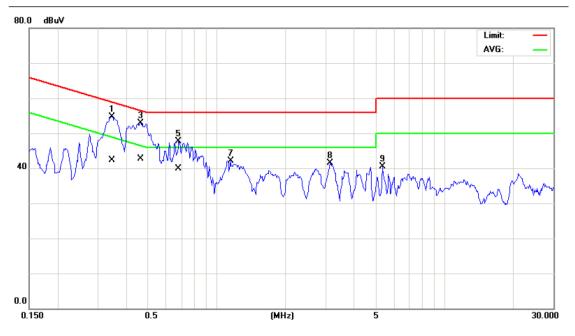
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∀	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.3750	44.96	9.70	54.66	58.39	-3.73	peak	
2		0.3750	26.60	9.70	36.30	48.39	-12.09	AVG	
3		0.4740	36.70	9.70	46.40	56.44	-10.04	QP	
4		0.4740	26.20	9.70	35.90	46.44	-10.54	AVG	
5		0.6900	35.56	9.71	45.27	56.00	-10.73	peak	
6		0.6900	20.40	9.71	30.11	46.00	-15.89	AVG	
7		1.3020	27.82	9.78	37.60	56.00	-18.40	peak	
8		5.7300	28.48	9.97	38.45	60.00	-21.55	peak	
9		10.6198	26.41	10.19	36.60	60.00	-23.40	peak	





EUT:	Tablet Pc	Model Name. :	GX1301-NA
Temperature:	<b>26</b> ℃	Relative Humidity:	56%
Pressure:	1010hPa	Test Date :	2014-02-20
Test Mode:	Mode 1	Phase :	Neutral
Test Voltage :	120V/ 60Hz		

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.3480	45.06	9.70	54.76	59.01	-4.25	peak	
2	0.3480	32.62	9.70	42.32	49.01	-6.69	AVG	
3 *	0.4611	43.21	9.70	52.91	56.67	-3.76	peak	
4	0.4611	33.10	9.70	42.80	46.67	-3.87	AVG	
5	0.6810	38.09	9.71	47.80	56.00	-8.20	peak	
6	0.6810	30.17	9.71	39.88	46.00	-6.12	AVG	
7	1.1490	32.44	9.76	42.20	56.00	-13.80	peak	
8	3.1560	31.65	9.92	41.57	56.00	-14.43	peak	
9	5.3610	30.46	9.96	40.42	60.00	-19.58	peak	



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# 4. RADIATED EMISSION MEASUREMENT

#### 4.1 RADIATED EMISSION LIMIT (Frequency Range 9KHz-1000MHz)

20 dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table bellow has to be followed.

EDECUENCY (MILL)	Field Strength	Measurement Distance
FREQUENCY (MHz)	(uV/m at 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

### RADIATED EMISSION LIMITS (Above 1000MHz)

FREQUENCY (MHz)	Class A (dBu	V/m)(at 3 M)	Class B (dBuV/m)(at 3 M)		
FREQUENCT (MITZ)	Peak	Average		Peak	
Above 1000	80	60	74	54	

#### Note:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (2) Emission Level(dBuV/m)=20log Emission Level(uV/m)

The following table is the setting of the receiver for test frequency below 1GHz:

	1 7
Receiver Parameter	Setting
Attenuation	Auto
Start Frequency~ Stop Frequency	9kHz~150kHz/ RB 200Hz for QP
Start Frequency~ Stop Frequency	150kHz~30MHz/ RB 9kHz for QP
Start Frequency~ Stop Frequency	30MHz~1000MHz/ RB120kHz for QP

The following table is the setting of the spectrum for test frequency above 1GHz:

The fellowing table to the cetting of the operation for test hequelley above ferris.					
Spectrum Parameter	Setting				
Attenuation	Auto				
Start Frequency	1000 MHz				
Stop Frequency	10 <sup>th</sup> carrier harmonic				
RB/ VB (emission in restricted band)	1MHz/ 3 MHz for Peak, 1MHz/ 10Hz for Average				

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#### 4.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency 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 the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both 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, above 1G Average detector mode will be instead.
- 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.

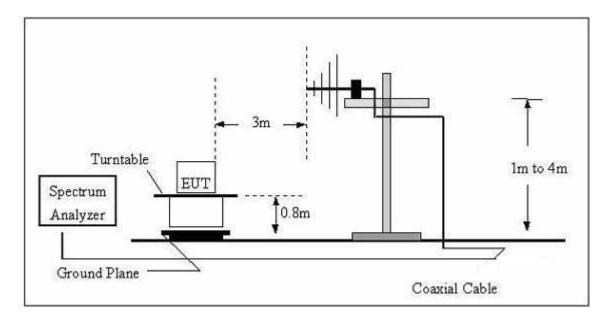
#### Note:

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

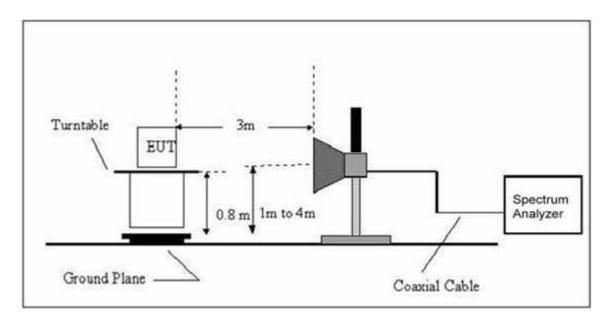
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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(B) Radiated Emission Test Set-Up Frequency Above 1GHz



# 4.4 TEST INSTRUMENTS

Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
Broadband Antenna	R&S	VULB 9168	VULB 9168-456	Jul. 06, 2012	Jul. 05, 2014	1 year
Test Cable	N/A	R-01	N/A	Dec. 25, 2012	Dec. 24, 2013	1 year
Test Cable	N/A	R-02	N/A	Dec. 25, 2012	Dec. 24, 2013	1 year
EMI Test Receiver	R&S	ESCI	101324	Jul. 06, 2012	Jul. 05, 2014	1 year
Antenna Mast	EM	SC100_1	N/A	N/A	N/A	N/A
Turn Table	EM	SC100	060531	N/A	N/A	N/A
50Ω Switch	Anritsu Corp	MP59B	6200983705	Jul. 06, 2012	Jul. 05, 2014	1 year
Spectrum Analyzer	R&S	FSP40	100154	Jul. 06, 2012	Jul. 05. 2014	1 year
Horn Antenna	R&S	HF906	10029	Jul. 06, 2012	Jul. 05. 2014	1 year
Amplifier	EM	EM-30180	060538	Jul. 06, 2012	Jul. 05. 2014	1 year

# 4.5 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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# 4.6 TEST RESULTS

# 4.6.1 TEST RESULTS (Bellow 1GHz)

EUT:	Tablet Pc	Model Name. :	GX1301-NA
Temperature:	26 ℃	Relative Humidity:	56%
Pressure :	1010hPa	Test Date :	2014-02-24
Test Mode :	Mode 1	Polarization:	Horizontal
Test Power :	AC 120V/60 Hz		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		98.7100	52.47	-13.18	39.29	43.50	-4.21	peak	
2		165.3900	55.35	-16.75	38.60	43.50	-4.90	peak	
3		197.4200	53.78	-14.71	39.07	43.50	-4.43	peak	
4		328.4700	52.36	-10.95	41.41	46.00	-4.59	peak	
5	*	479.6200	50.06	-8.21	41.85	46.00	-4.15	peak	
6		678.2200	46.28	-5.25	41.03	46.00	-4.97	peak	

#### Remark:

Factor = Antenna Factor + Cable Loss.



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EUT:	Tablet Pc	Model Name. :	GX1301-NA
Temperature:	<b>26</b> ℃	Relative Humidity:	56%
Pressure :	1010hPa	Test Date :	2014-02-24
Test Mode :	Mode 1	Polarization:	Vertical
Test Power :	AC 120V/60 Hz		

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	30.0000	50.06	-13.65	36.41	40.00	-3.59	peak	
2		89.6200	53.25	-14.48	38.77	43.50	-4.73	peak	
3		240.1300	54.71	-12.90	41.81	46.00	-4.19	peak	
4		352.1600	50.39	-10.24	40.15	46.00	-5.85	peak	
5		469.0200	50.47	-8.49	41.98	46.00	-4.02	peak	
6		640.0200	47.39	-5.42	41.97	46.00	-4.03	peak	

# Remark:

Factor = Antenna Factor + Cable Loss.

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# 4.6.2 TEST RESULTS (Above 1GHz)

EUT:	Tablet Pc	Model Name. :	GX1301-NA
Temperature :	<b>26</b> ℃	Relative Humidity:	56%
Pressure :	1010hPa	Test Date :	2014-02-24
Test Mode :	B Mode 2412 TX Mode	Polarization:	Horizontal
Test Power :	AC 120V/60 Hz		

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.110	48.71	6.77	55.48	74.00	-18.52	peak	
2	*	4824.110	41.48	6.77	48.25	54.00	-5.75	AVG	
3		7236.280	39.43	7.74	47.17	74.00	-26.83	peak	
4		7236.280	32.49	7.74	40.23	54.00	-13.77	AVG	

EUT:	Tablet Pc	Model Name. :	GX1301-NA
Temperature:	<b>26</b> ℃	Relative Humidity:	56%
Pressure :	1010hPa	Test Date :	2014-02-24
Test Mode :	B Mode 2412 TX Mode	Polarization:	Vertical
Test Power :	AC 120V/60 Hz		

_	No.	Mł	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1		4824.560	44.26	8.77	53.03	74.00	-20.97	peak	
_	2	*	4824.560	38.47	8.77	47.24	54.00	-6.76	AVG	
_	3		7236.280	35.47	9.74	45.21	74.00	-28.79	peak	
	4		7236.280	28.74	9.74	38.48	54.00	-15.52	AVG	
_										

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EUT:	Tablet Pc	Model Name. :	GX1301-NA
Temperature :	<b>26</b> ℃	Relative Humidity:	56%
Pressure:	1010hPa	Test Date :	2014-02-24
Test Mode :	B Mode 2437 TX Mode	Polarization:	Horizontal
Test Power :	AC 120V/60 Hz		

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.250	49.27	6.78	56.05	74.00	-17.95	peak	
2	*	4874.250	42.39	6.78	49.17	54.00	-4.83	AVG	
3		7311.280	39.64	7.75	47.39	74.00	-26.61	peak	
4		7311.280	33.27	7.75	41.02	54.00	-12.98	AVG	

EUT:	Tablet Pc	Model Name. :	GX1301-NA
Temperature:	<b>26</b> ℃	Relative Humidity:	56%
Pressure:	1010hPa	Test Date :	2014-02-24
Test Mode :	B Mode 2437 TX Mode	Polarization:	Vertical
Test Power :	AC 120V/60 Hz		

No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4874.210	44.89	8.78	53.67	74.00	-20.33	peak	
2 *	4874.210	38.50	8.78	47.28	54.00	-6.72	AVG	
3	7311.350	36.09	9.78	45.87	74.00	-28.13	peak	
4	7311.350	29.27	9.78	39.05	54.00	-14.95	AVG	

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EUT:	Tablet Pc	Model Name. :	GX1301-NA
Temperature:	<b>26</b> ℃	Relative Humidity:	56%
Pressure:	1010hPa	Test Date :	2014-02-24
Test Mode :	B Mode 2462 TX Mode	Polarization:	Horizontal
Test Power :	AC 120V/60 Hz		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.510	49.37	6.80	56.17	74.00	-17.83	peak	
2	*	4924.510	42.83	6.80	49.63	54.00	-4.37	AVG	
3		7386.960	40.78	7.77	48.55	74.00	-25.45	peak	
4		7386.960	32.50	7.77	40.27	54.00	-13.73	AVG	

EUT:	Tablet Pc	Model Name. :	GX1301-NA
Temperature:	<b>26</b> ℃	Relative Humidity:	56%
Pressure:	1010hPa	Test Date :	2014-02-24
Test Mode :	B Mode 2462 TX Mode	Polarization:	Vertical
Test Power :	AC 120V/60 Hz		

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.510	45.26	8.80	54.06	74.00	-19.94	peak	
2	*	4924.510	39.91	8.80	48.71	54.00	-5.29	AVG	
3		7386.960	36.26	9.82	46.08	74.00	-27.92	peak	
4		7386.960	29.35	9.82	39.17	54.00	-14.83	AVG	

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EUT:	Tablet Pc	Model Name. :	GX1301-NA
Temperature:	<b>26</b> ℃	Relative Humidity:	56%
Pressure:	1010hPa	Test Date :	2014-02-24
Test Mode :	G Mode 2412 TX Mode	Polarization:	Horizontal
Test Power :	AC 120V/60 Hz		

No.	Mk.	Freq.			Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4	4925.280	43.89	6.80	50.69	74.00	-23.31	peak	
2	* 4	4925.280	35.38	6.80	42.18	54.00	-11.82	AVG	

EUT:	Tablet Pc	Model Name. :	GX1301-NA
Temperature:	<b>26</b> ℃	Relative Humidity:	56%
Pressure:	1010hPa	Test Date :	2014-02-24
Test Mode :	G Mode 2412 TX Mode	Polarization:	Vertical
Test Power :	AC 120V/60 Hz		

No.	Mk.	Freq.	_	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	49	25.280	39.87	8.80	48.67	74.00	-25.33	peak	
2	* 49	25.280	31.79	8.80	40.59	54.00	-13.41	AVG	

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EUT:	Tablet Pc	Model Name. :	GX1301-NA
Temperature:	<b>26</b> ℃	Relative Humidity:	56%
Pressure:	1010hPa	Test Date :	2014-02-24
Test Mode :	G Mode 2437 TX Mode	Polarization:	Horizontal
Test Power :	AC 120V/60 Hz		

No. I	Mk.	Freq.		Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	48	875.170	42.87	6.79	49.66	74.00	-24.34	peak	
2	* 48	875.170	34.92	6.79	41.71	54.00	-12.29	AVG	

EUT:	Tablet Pc	Model Name. :	GX1301-NA
Temperature:	<b>26</b> ℃	Relative Humidity:	56%
Pressure:	1010hPa	Test Date :	2014-02-24
Test Mode :	G Mode 2437 TX Mode	Polarization :	Vertical
Test Power :	AC 120V/60 Hz		

No.	Mk.	. Freq.	Reading Level		Measure- ment	Limit	Over		
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4875.170	39.03	8.79	47.82	74.00	-26.18	peak	
2	*	4875.170	31.25	8.79	40.04	54.00	-13.96	AVG	

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EUT:	Tablet Pc	Model Name. :	GX1301-NA
Temperature :	<b>26</b> ℃	Relative Humidity:	56%
Pressure:	1010hPa	Test Date :	2014-02-24
Test Mode :	G Mode 2462 TX Mode	Polarization:	Horizontal
Test Power :	AC 120V/60 Hz		

No. IV	1k. Freq.			Measure- ment	Limit	Over		
	MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4825.080	44.11	6.77	50.88	74.00	-23.12	peak	
2 *	4825.080	36.47	6.77	43.24	54.00	-10.76	AVG	

EUT:	Tablet Pc	Model Name. :	GX1301-NA
Temperature:	<b>26</b> ℃	Relative Humidity:	56%
Pressure:	1010hPa	Test Date :	2014-02-24
Test Mode :	G Mode 2462 TX Mode	Polarization:	Vertical
Test Power :	AC 120V/60 Hz		

No. I	Mk.	Freq.		Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	48	325.080	40.13	8.77	48.90	74.00	-25.10	peak	
2	* 48	325.080	32.92	8.77	41.69	54.00	-12.31	AVG	

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EUT:	Tablet Pc	Model Name. :	GX1301-NA
Temperature:	<b>26</b> ℃	Relative Humidity:	56%
Pressure:	1010hPa	Test Date :	2014-02-24
Test Mode :	N Mode 2412 TX Mode	Polarization:	Horizontal
Test Power :	AC 120V/60 Hz		

No. M	k. Freq.			Measure- ment	Limit	Over		
	MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4826.280	41.90	6.77	48.67	74.00	-25.33	peak	
2 *	4826.280	33.72	6.77	40.49	54.00	-13.51	AVG	

EUT:	Tablet Pc	Model Name. :	GX1301-NA
Temperature:	<b>26</b> ℃	Relative Humidity:	56%
Pressure:	1010hPa	Test Date :	2014-02-24
Test Mode :	N Mode 2412 TX Mode	Polarization:	Vertical
Test Power :	AC 120V/60 Hz		

No. Mk	. Freq.			Measure- ment		Over		
	MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4826.280	37.62	8.77	46.39	74.00	-27.61	peak	
2 *	4826.280	30.00	8.77	38.77	54.00	-15.23	AVG	

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EUT:	Tablet Pc	Model Name. :	GX1301-NA
Temperature:	<b>26</b> ℃	Relative Humidity:	56%
Pressure:	1010hPa	Test Date :	2014-02-24
Test Mode :	N Mode 2437 TX Mode	Polarization:	Horizontal
Test Power :	AC 120V/60 Hz		

No.	Mk	. Freq.		Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4876.110	41.72	6.79	48.51	54.00	-5.49	AVG	
2		4876.110	34.29	6.79	41.08	54.00	-12.92	AVG	

EUT:	Tablet Pc	Model Name. :	GX1301-NA
Temperature:	<b>26</b> ℃	Relative Humidity:	56%
Pressure:	1010hPa	Test Date :	2014-02-24
Test Mode :	N Mode 2437 TX Mode	Polarization:	Vertical
Test Power :	AC 120V/60 Hz		

No. M	lk. Freq.	•	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4876.110	37.48	8.79	46.27	74.00	-27.73	peak	
2 *	4876.110	30.26	8.79	39.05	54.00	-14.95	AVG	

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EUT:	Tablet Pc	Model Name. :	GX1301-NA
Temperature:	<b>26</b> ℃	Relative Humidity:	56%
Pressure:	1010hPa	Test Date :	2014-02-24
Test Mode :	N Mode 2462 TX Mode	Polarization:	Horizontal
Test Power :	AC 120V/60 Hz		

No. M	k. Freq.	_	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4926.190	42.81	6.80	49.61	74.00	-24.39	peak	
2 *	4926.190	35.37	6.80	42.17	54.00	-11.83	AVG	

EUT:	Tablet Pc	Model Name. :	GX1301-NA
Temperature:	26 ℃	Relative Humidity:	56%
Pressure:	1010hPa	Test Date :	2014-02-24
Test Mode :	N Mode 2462 TX Mode	Polarization:	Vertical
Test Power :	AC 120V/60 Hz		

No.	Mk	. Freq.			Measure- ment	Limit	Over		
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4926.190	38.59	8.80	47.39	74.00	-26.61	peak	
2	*	4926.190	30.78	8.80	39.58	54.00	-14.42	AVG	

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# 5. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

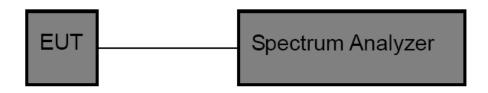
#### 5.1 LIMITS

Peak Output Power	For systems using digital modulation in 2400~2483.5MHz, the
	Limit for peak output power is 30dBm.

# 5.2 TEST PROCEDURE

The EUT was directly connected to the power meter and antenna output port as show in the block diagram as bellow.

#### 5.3 TEST SETUP



#### 5.4 TEST INSTRUMENTS

Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
Spectrum Analyzer	R&S	FSP40	100154	Jul. 06, 2012	Jul. 05. 2014	1 year

# 5.5 EUT OPERATING CONDITIONS

The EUT was set to continuously transmitting in the maximum power during the test.

# 5.6 TEST RESULTS



801.11b Mode (CCK 1Mbps)					
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)		
CH01	2412	8.42			
CH 06	2437	8.14	<30		
CH11	2462	8.77			

#### B Mode 2412MHz

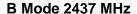


Date: 21.FEB.2014 16:56:45

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Date: 21.FEB.2014 16:59:54

# B Mode 2462MHz



Date: 21.FEB.2014 17:00:24



801.11g Mode (OFDM 6Mbps)					
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)		
CH01	2412	8.83			
CH 06	2437	8.60	<30		
CH11	2462	8.76			

# G Mode 2412MHz

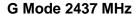


Date: 21.FEB.2014 17:23:01

Version: STT-FCCRF-13V01









Date: 21.FEB.2014 17:26:16

# G Mode 2462MHz



Date: 21.FEB.2014 17:26:36



801.11n(HT20) Mode (MCS0 6.5 Mbps)					
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)		
CH01	2412	8.71			
CH 06	2437	8.76	<30		
CH11	2462	8.75			

### N Mode 2412MHz



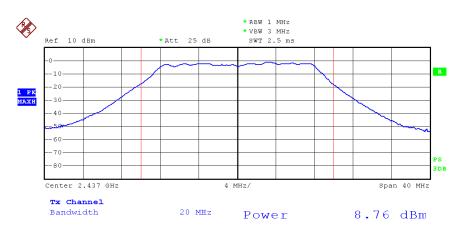
Date: 21.FEB.2014 17:37:16

Version: STT-FCCRF-13V01



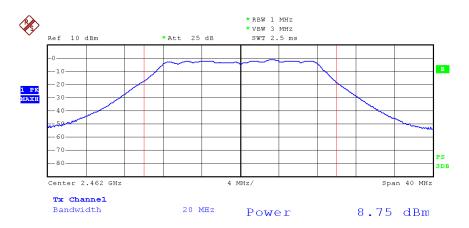






Date: 21.FEB.2014 17:41:56

# N Mode 2462MHz



Date: 21.FEB.2014 17:45:01

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# **6. OCCUPIED BANDWIDTH MEASUREMENT**

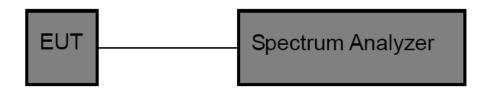
#### 6.1 LIMITS

6dB Bandwidth	For systems using digital modulation in 2400~2483.5MHz, the minimum 6 dB band-width shall be at least 500 kHz.
99% Occupied Bandwidth	N/A

#### 6.2 TEST PROCEDURE

The EUT was directly connected to the power meter and antenna output port as show in the block diagram as bellow.

# 6.3 TEST SETUP



# 6.4 TEST INSTRUMENTS

Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
Spectrum Analyzer	R&S	FSP40	100154	Jul. 06, 2012	Jul. 05. 2014	1 year

#### 6.5 EUT OPERATING CONDITIONS

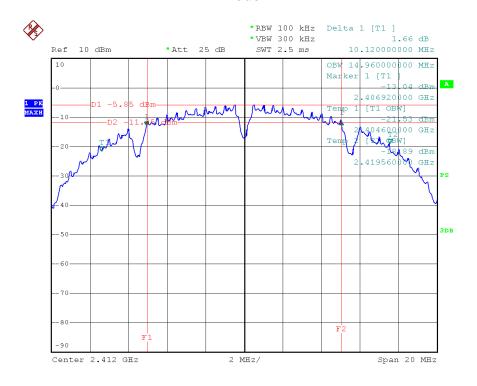
The EUT was set to continuously transmitting in the maximum power during the test.

# 6.6 TEST RESULTS



801.11b Mode (1Mbps)					
Frequency (MHz)	Limit				
2412	10.12	14.96			
2437	10.08	14.96	>=500 kHz		
2462	10.08	14.96			

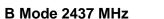
### B Mode 2412 MHz

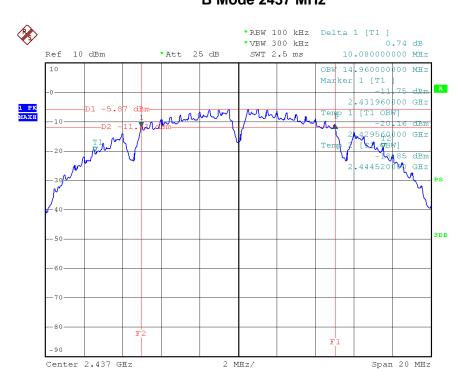


Date: 21.FEB.2014 16:58:42

Version: STT-FCCRF-13V01

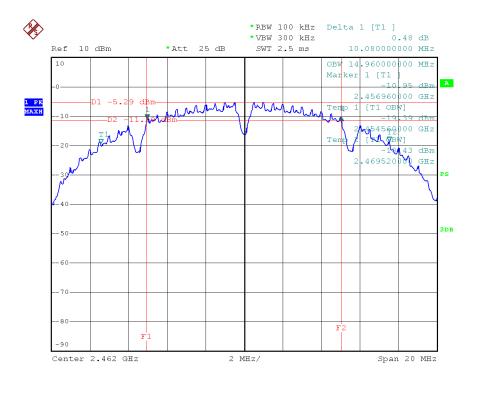






Date: 21.FEB.2014 16:59:31

### B Mode 2462 MHz



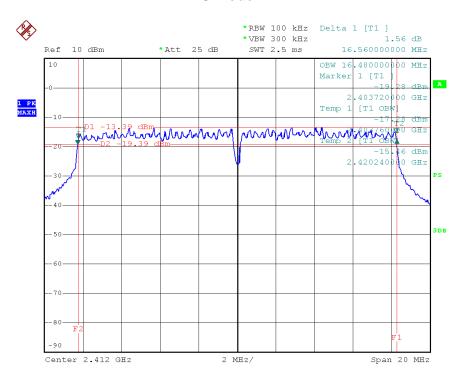
Date: 21.FEB.2014 17:01:12

Version: STT-FCCRF-13V01



801.11g Mode (6 Mbps)					
Frequency (MHz)	Limit				
2412	16.56	16.48			
2437	16.56	16.48	>=500 kHz		
2462	16.56	16.48			

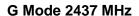
### G Mode 2412 MHz

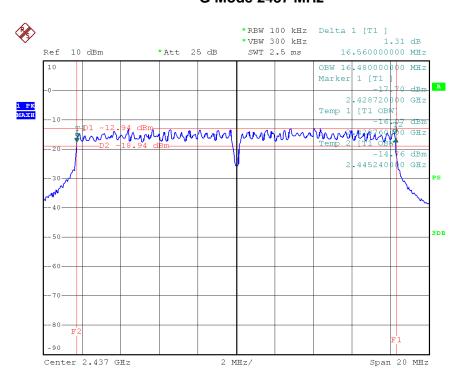


Date: 21.FEB.2014 17:30:31

Version: STT-FCCRF-13V01

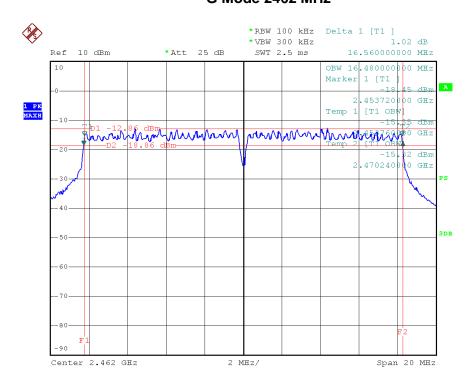






Date: 21.FEB.2014 17:31:23

# G Mode 2462 MHz



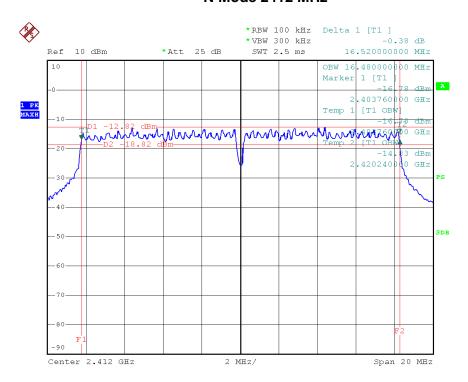
Date: 21.FEB.2014 17:32:24

Version: STT-FCCRF-13V01



801.11n Mode (6.5 Mbps)					
Frequency (MHz)	Limit				
2412	16.52	16.48			
2437	16.56	16.48	>=500 kHz		
2462	16.56	16.48			

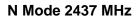
### N Mode 2412 MHz

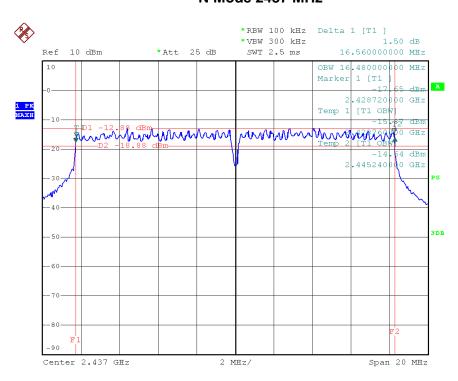


Date: 21.FEB.2014 17:38:29

Version: STT-FCCRF-13V01

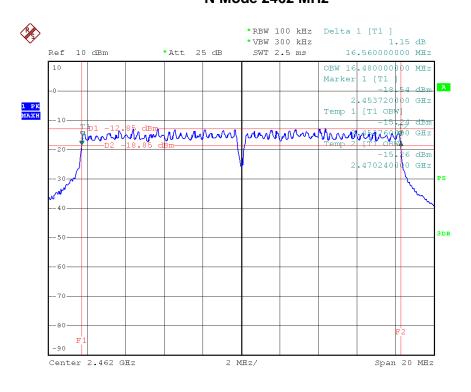






Date: 21.FEB.2014 17:42:46

# N Mode 2462 MHz



Date: 21.FEB.2014 17:44:39

Version: STT-FCCRF-13V01

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# 7. POWER DENSITY

### 7.1 LIMITS

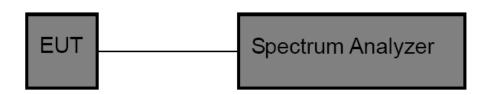
Power Density	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time
	interval of continuous transmission
	interval of continuous transmission

### 7.2 TEST PROCEDURE

The EUT was directly connected to the power meter and antenna output port as show in the block diagram as bellow.

- a. Set spectrum center frequency to DTS channel center frequency.
- b. Set the span to 1.5 times the DTS bandwidth.
- c. Set the RBW to: 3kHz≤RBW≤100kHz
- d. Set the VBW to: VBW ≥ 3 RBW
- e. Detector= Peak.
- f. Sweep time= auto couple
- g. Trace mode= maxhold.
- h. Allow trace to fully stabilize.
- i. Use the peak marker function to determine the maximum amplitude level within the RBW.
- j. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

#### 7.3 TEST SETUP



### 7.4 TEST INSTRUMENTS

Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
Spectrum Analyzer	R&S	FSP40	100154	Jul. 06, 2012	Jul. 05. 2014	1 year

### 7.5 EUT OPERATING CONDITIONS

The EUT was set to continuously transmitting in the maximum power during the test.

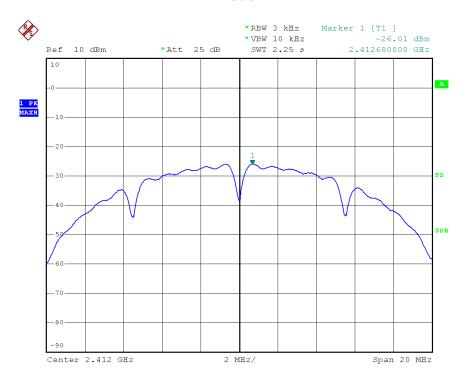
### 7.6 TEST RESULTS

Version: STT-FCCRF-13V01



801.11b Mode (1 Mbps)					
Frequency (MHz)	Power Density (dBm/ 3kHz)	Limit (dBm)			
2412	-26.01				
2437	-26.02	<8			
2462	-25.38				

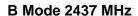
# B Mode 2412 MHz



Date: 21.FEB.2014 17:08:25

Version: STT-FCCRF-13V01







Date: 21.FEB.2014 17:09:03

# B Mode 2462 MHz

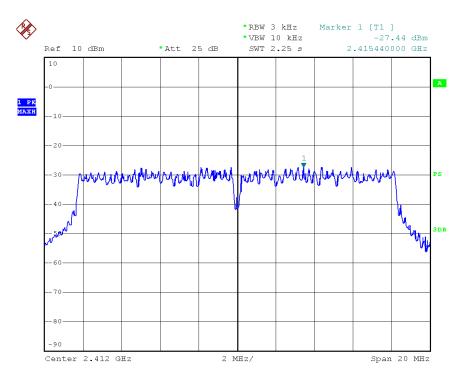


Date: 21.FEB.2014 17:09:40



801.11g Mode (6 Mbps)					
Frequency (MHz)	Power Density (dBm/ 3kHz)	Limit (dBm)			
2412	-27.44				
2437	-26.64	<8			
2462	-26.54				

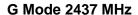
# G Mode 2412 MHz

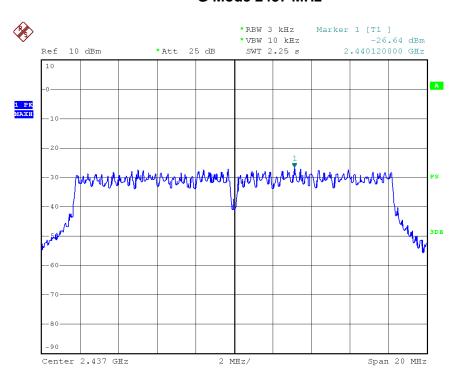


Date: 21.FEB.2014 17:23:34

Version: STT-FCCRF-13V01

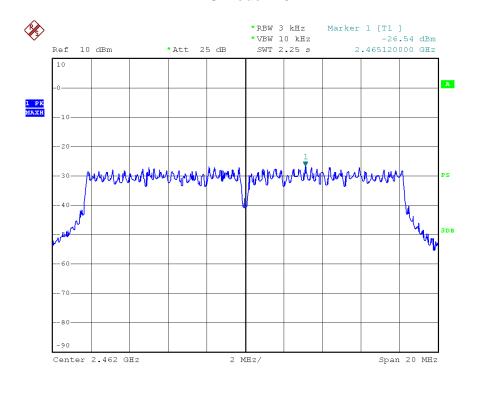






Date: 21.FEB.2014 17:25:58

# G Mode 2462 MHz

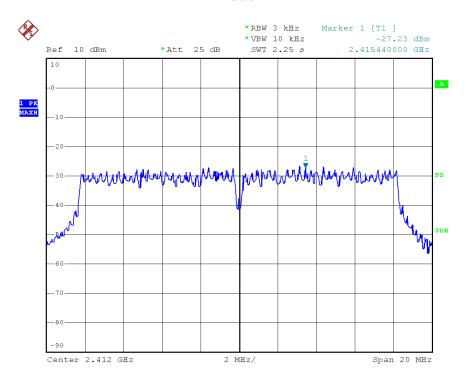


Date: 21.FEB.2014 17:27:06



801.11n Mode (6.5 Mbps)					
Frequency (MHz)	Power Density (dBm/ 3kHz)	Limit (dBm)			
2412	-27.23				
2437	-26.72	<8			
2462	-26.61				

# N Mode 2412 MHz



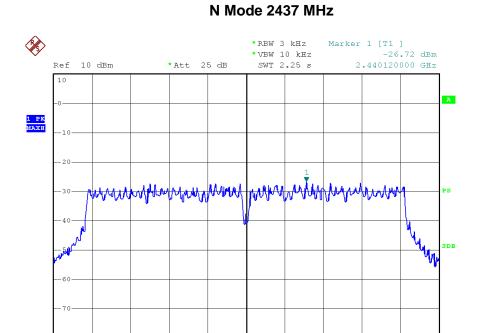
Date: 21.FEB.2014 17:48:05

Version: STT-FCCRF-13V01





Span 20 MHz

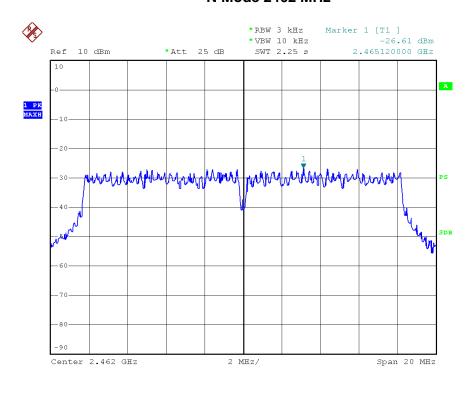


Date: 21.FEB.2014 17:48:32

Center 2.437 GHz

# N Mode 2462 MHz

2 MHz/



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### 8. BAND EDGES MEASUREMENT

### 8.1 LIMITS

Band Edges Requirement In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.

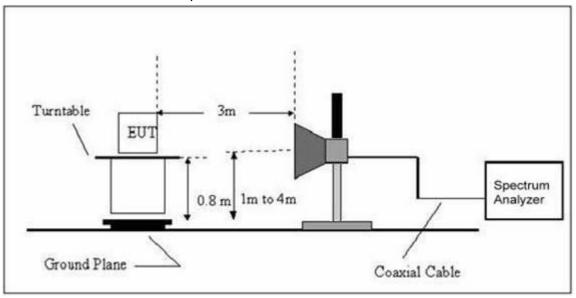
### 8.2 TEST PROCEDURE

The EUT was directly connected to the power meter and antenna output port as show in the block diagram as bellow.

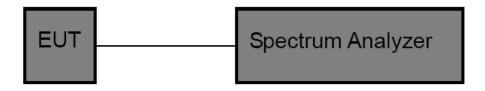
- Set frequency range to capture low band-edge from 2310 MHz up to 2390 MHz, and for up band-edge from 2483.5 MHz up to 2500 MHz
- b. For low band-edge set the equipment transmit at the lowest channel, and for up band-edge set the equipment transmit at the highest channel
- c. Set the VBW ≥3 RBW (100kHz/ 300kHz) for conducted measurement
- d. For radiated measurements the RBW set to 1 MHz, and the VBW set to 1 MHz for peak measurements and 10 Hz for average measurement

### 8.3 TEST SETUP

(A) Radiated Emission Test Set-Up



(B) Conducted Emission Test Setup



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# 8.4 TEST INSTRUMENTS

Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
Spectrum Analyzer	R&S	FSP40	100154	Jul. 06, 2012	Jul. 05. 2014	1 year

# 8.5 EUT OPERATING CONDITIONS

The EUT was set to continuously transmitting in the maximum power during the test.

# 8.6 TEST RESULTS

B Mode (1Mbps)						
Conducted Emission						
Frequency (MHz)	Peak Power (dBm)	Emission Level (dBm)	Ratio (dBC)	Limit (dBc)		
Bellow 2400	-6.00	-57.61	51.61	20		
Up 2483.5	-5.38	-57.11	51.73	20		

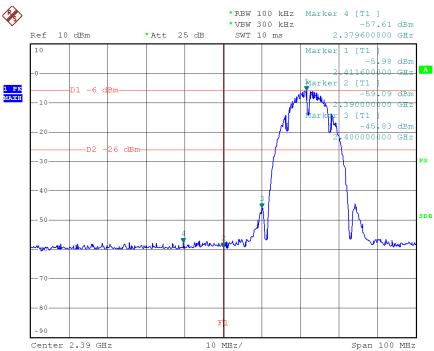
Radiated Emission						
Frequency (MHz)	Polarization	Emission (dBuV/m)		Limit (dBuV/m)		
	(H/V)	PEAK	AVERAGE	PEAK	AVERAGE	
2200	Н	55.98	46.49	74	5.4	
2390	V	55.14	46.07			
2483.5	Н	54.29	45.39		54	
	V	53.55	44.72			

Remark: RBW=1MHz/VBW=3MHz for Peak RBW=1MHz/VBW=10Hz for Average

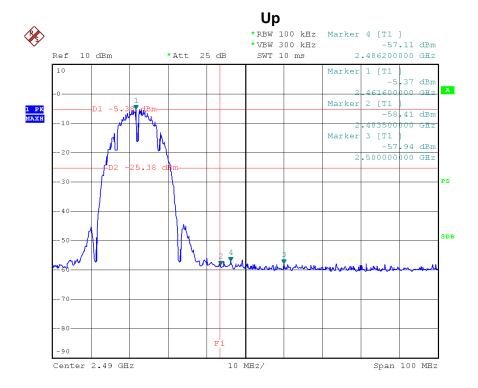
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G Mode (6 Mbps)						
Conducted Emission						
Frequency (MHz)	Peak Power (dBm)	Emission Level (dBm)	Ratio (dBC)	Limit (dBc)		
Bellow 2400	-13.32	-58.45	45.13	20		
Up 2483.5	-12.67	-57.96	45.29	20		

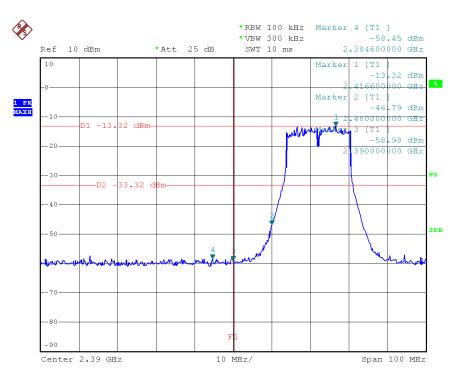
Radiated Emission					
Frequency (MHz)	Polarization	Emission (dBuV/m)		Limit (dBuV/m)	
	(H/V)	PEAK	AVERAGE	PEAK	AVERAGE
2390 2483.5	Н	54.27	45.16		EA
	V	53.88	44.30	74	
	Н	53.81	44.25	74 5	54
	V	52.47	43.08		

Remark: RBW=1MHz/VBW=3MHz for Peak RBW=1MHz/VBW=10Hz for Average

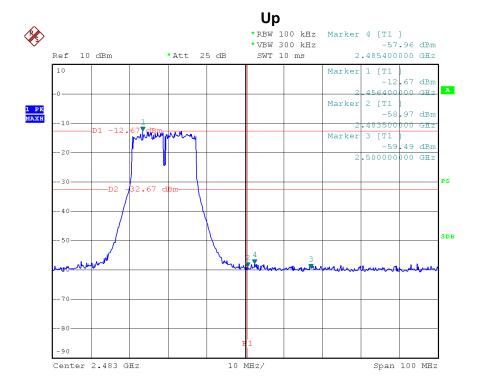
Version: STT-FCCRF-13V01







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Date: 21.FEB.2014 17:28:10



N Mode (6.5 Mbps)					
Conducted Emission					
Frequency (MHz)	Peak Power (dBm)	Emission Level (dBm)	Ratio (dBC)	Limit (dBc)	
Bellow 2400	-12.91	-58.31	45.40	20	
Up 2483.5	-13.00	-57.95	44.95	20	

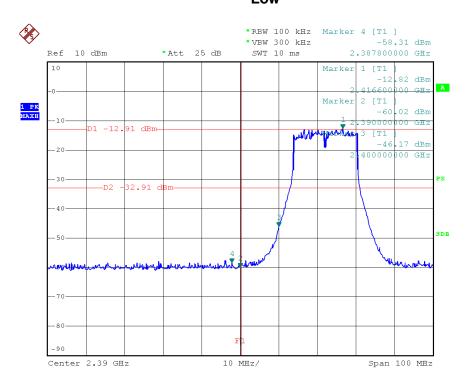
Radiated Emission					
Frequency (MHz)	Polarization	Emission (dBuV/m)		Limit (dBuV/m)	
	(H/V)	PEAK	AVERAGE	PEAK	AVERAGE
2390 2483.5	Н	54.06	45.51		F.4
	V	53.61	44.37	74	
	Н	53.25	44.80	74 54	54
	V	52.91	43.26		

Remark: RBW=1MHz/VBW=3MHz for Peak RBW=1MHz/VBW=10Hz for Average

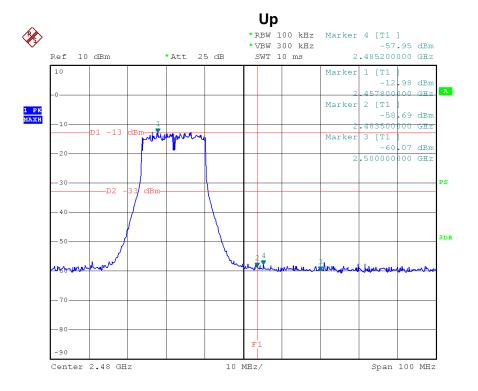
Version: STT-FCCRF-13V01







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Date: 21.FEB.2014 17:46:28

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### 9. OUT OF BAND CONDUCTED EMISSIONS MEASUREMENT

### 9.1 LIMITS

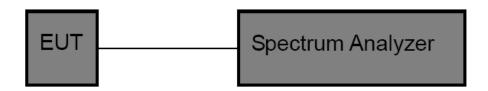
	In any 100 kHz bandwidth outside the frequency band in which
	the spread spectrum or digitally modulated intentional radiator
Requirement	in operating, the radio frequency power that is produced by the
Requirement	intentional radiator shall be at least 20 dB below that in the 100
	kHz bandwidth within the band that contains the highest level of
	the desired power

### 9.2 TEST PROCEDURE

The EUT was directly connected to the power meter and antenna output port as show in the block diagram as bellow.

- a. Set spectrum frequency range from 30 MHz~26.5 GHz.
- b. Set spectrum RBW=100 kHz, RBW=300 kHz.
- c. Detector= Peak.
- d. Sweep time= auto couple
- e. Trace mode= maxhold.
- f. Allow trace to fully stabilize.
- g. Use the peak marker function to determine the maximum amplitude level within the RBW.

### 9.3 TEST SETUP



### 9.4 TEST INSTRUMENTS

Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
Spectrum Analyzer	R&S	FSP40	100154	Jul. 06, 2012	Jul. 05. 2014	1 year

### 9.5 EUT OPERATING CONDITIONS

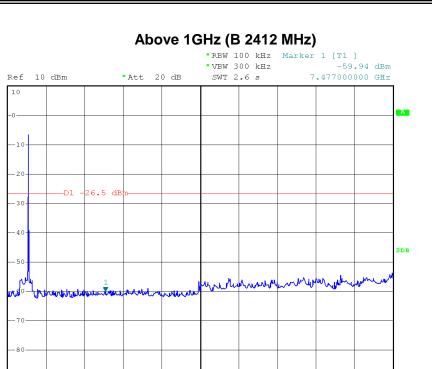
The EUT was set to continuously transmitting in the maximum power during the test.

### 9.6 TEST RESULTS

Version: STT-FCCRF-13V01

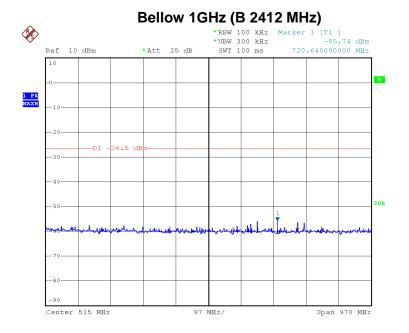


1 PK MAXH



Date: 15.JUL.2013 17:05:39

Center 13.75 GHz



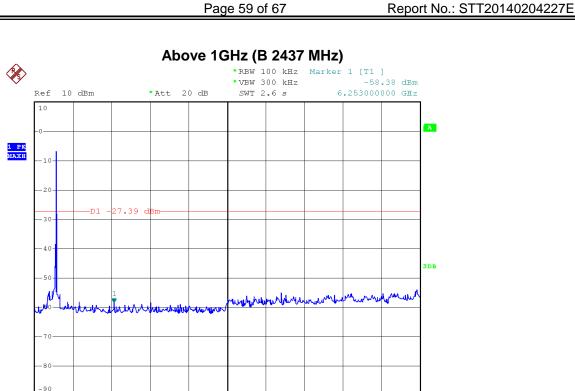
2.55 GHz/

Span 25.5 GHz

Date: 15.JUL.2013 17:56:42

Version: STT-FCCRF-13V01



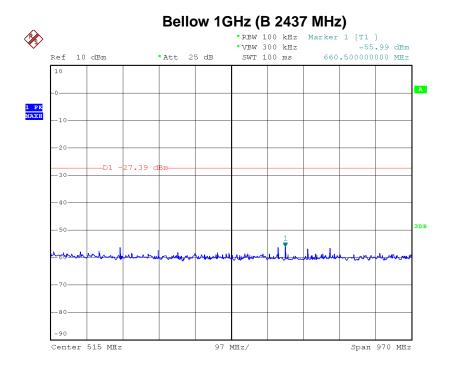


2.55 GHz/

Stop 26.5 GHz

Date: 15.JUL.2013 17:27:26

Start 1 GHz

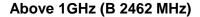


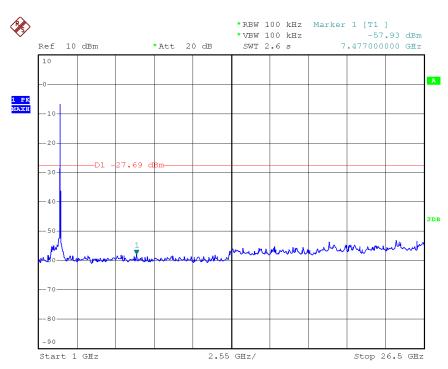
Date: 15.JUL.2013 17:50:01

Version: STT-FCCRF-13V01



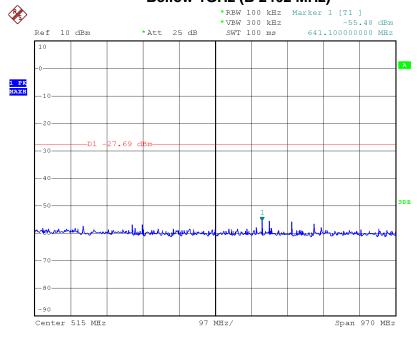






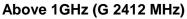
Date: 15.JUL.2013 18:03:11

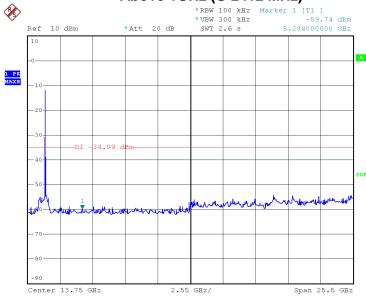
# Bellow 1GHz (B 2462 MHz)



Date: 15.JUL.2013 18:01:24

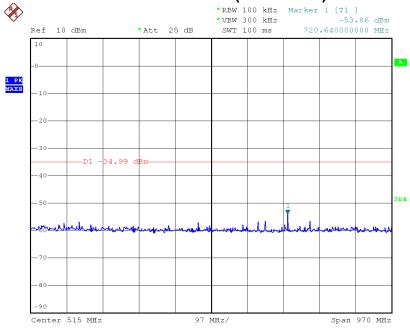






Date: 15.JUL.2013 17:45:43

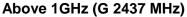
# Bellow 1GHz (G 2412 MHz)

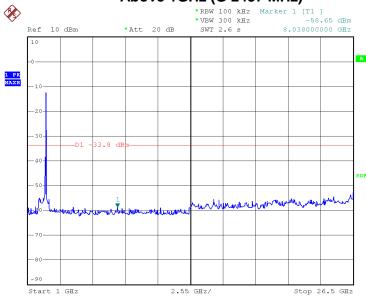


Date: 15.JUL.2013 17:54:39

Version: STT-FCCRF-13V01

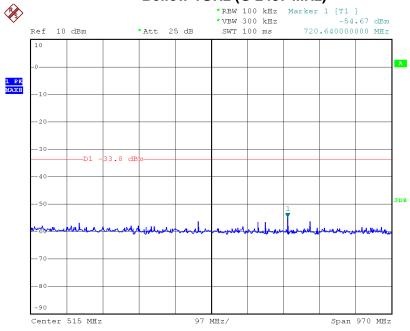






Date: 15.JUL.2013 17:47:38

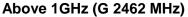
# Bellow 1GHz (G 2437 MHz)

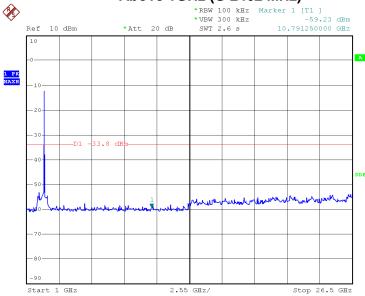


Date: 15.JUL.2013 17:55:27

Version: STT-FCCRF-13V01

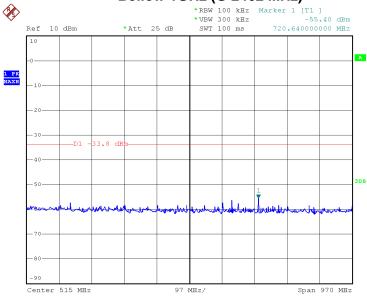






Date: 15.JUL.2013 17:44:36

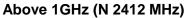
# Bellow 1GHz (G 2462 MHz)

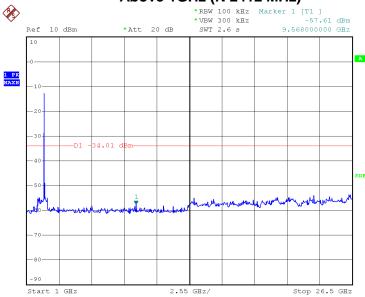


Date: 15.JUL.2013 17:55:53

Version: STT-FCCRF-13V01

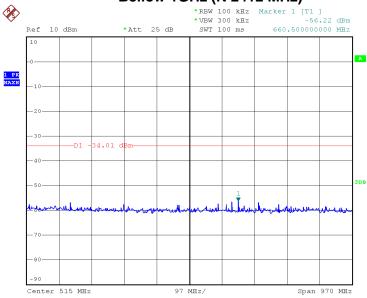






Date: 15.JUL.2013 17:59:20

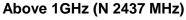
# Bellow 1GHz (N 2412 MHz)



Date: 15.JUL.2013 17:52:18

Version: STT-FCCRF-13V01

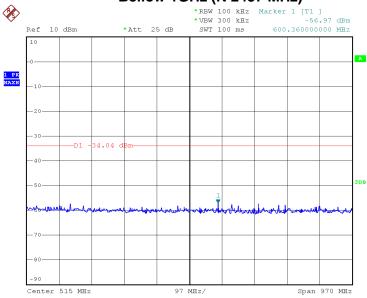






Date: 15.JUL.2013 17:00:17

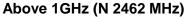
# Bellow 1GHz (N 2437 MHz)

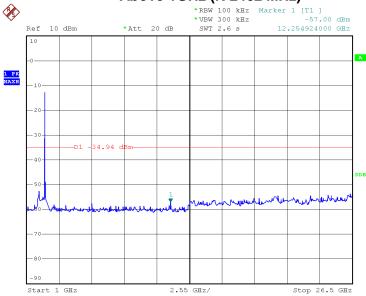


Date: 15.JUL.2013 17:52:51

Version: STT-FCCRF-13V01

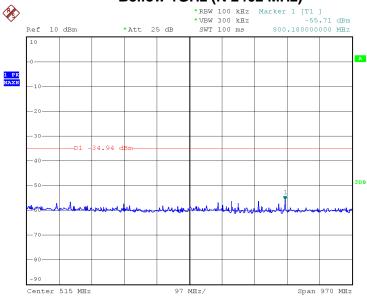






Date: 15.JUL.2013 17:11:57

# Bellow 1GHz (N 2462 MHz)



Date: 15.JUL.2013 17:53:34

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# 10. ANTENNA REQUIREMENT

# 10.1 REQUIREMENT

Antenna Requirement (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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.
Antenna Requirement	If transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

# 10.2 ANTENNA CONNECTOR CONSTRUCTION

The EUT antenna is a PIFA Antenna. And the maximum gain of this antenna is 0 dBi. It complies with the standard requirement.

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