RADIO TEST REPORT

Report No: 1707029W03

Issued for

SD MOBILE SAS

CRA 34#43-110 LC B C 01 BARRANQUILLA ,COLOMBIA.

Product Name:	smart phone	
Brand Name:	7 Step	
Model Name:	Obelix	
Series Model:	N/A	
FCC ID:	2ALHPOBELIX	
Test Standard:	FCC Part 15.247	

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TEST RESULT CERTIFICATION

Applicant's name:	SD MOBILE SAS		
Address:	CRA 34#43-110 LC B C 01 BARRANQUILLA ,COLOMBIA.		
Manufacture's Name:	SD MOBILE SAS		
Address:	CRA 34#43-110 LC B C 01 BARRANQUILLA ,COLOMBIA.		
Product description			
Product name:	smart phone		
Model and/or type reference .:	Obelix		
Series Model:	N/A		
Standards:	FCC Part15.247		
Test procedure	. ANSI C63.10-2013		
test (EUT) is in compliance with identified in the report. This report shall not be reproduct	s been tested by BZT, the test results show that the equipment under the FCC requirements. And it is applicable only to the tested sample sed except in full, without the written approval of BZT, this document T, personal only, and shall be noted in the revision of the document		
Date of Test	:		
Date (s) of performance of tests.			
Date of Issue			
Test Result	Pass		
Testing Engine	Jen swe		
	(Sean she)		
Technical Man	hager: hatim. hou		
	(Hakim.hou)		
Authorized Sig	gnatory:		

(Vita Li)

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 15 3.1 CONDUCTED EMISSION MEASUREMENT 15 3.2 RADIATED EMISSION MEASUREMENT 19 4. CONDUCTED SPURIOUS & BAND EDGE EMISSION 29 4.1 APPLIED PROCEDURES / LIMIT 29 **4.2 TEST PROCEDURE** 29 4.3 DEVIATION FROM STANDARD 29 4.4 TEST SETUP 29 4.5 EUT OPERATION CONDITIONS 29 4.6 TEST RESULTS 30 5. POWER SPECTRAL DENSITY TEST 39 5.1 APPLIED PROCEDURES / LIMIT 39 **5.2 TEST PROCEDURE** 39 5.3 DEVIATION FROM STANDARD 39 5.4 TEST SETUP 39 5.5 EUT OPERATION CONDITIONS 39 5.6 TEST RESULTS 40 6. BANDWIDTH TEST 46 6.1 APPLIED PROCEDURES / LIMIT 46 **6.2 TEST PROCEDURE** 46 6.3 DEVIATION FROM STANDARD 46 6.4 TEST SETUP 46 **6.5 EUT OPERATION CONDITIONS** 46 **6.6 TEST RESULTS** 47

	Page 4 of 57	Report No.: 1707029W03
Table of Con	tents	Page
7. PEAK OUTPUT POWER TEST		53
7.1 APPLIED PROCEDURES / LIMIT		53
7.2 TEST PROCEDURE		53
7.3 DEVIATION FROM STANDARD		53
7.4 TEST SETUP		53
7.5 EUT OPERATION CONDITIONS		53
7.6 TEST RESULTS		54
8. ANTENNA REQUIREMENT		55
8.1 STANDARD REQUIREMENT		55
8.2 EUT ANTENNA		55
APPENDIX - PHOTOS OF TEST SETUP		56

Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	12 July. 2017	1707029W03	ALL	Initial Issue

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards: KDB 558074 D01 DTS Meas Guidance v04

FCC Part 15.247,Subpart C				
Standard Section	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 Edge Emission	PASS		
Part 15.247(d)/part 15.209(a)	Band Edge Emission	PASS		
15.203	Antenna Requirement	PASS		

NOTE:

- (1)" N/A" denotes test is not applicable in this Test Report
- (2) all tests are according to ANSI C63.10-2013.

Report No.: 1707029W03

1.1 TEST FACTORY

BZT Testing Technology Co., Ltd.

Add.: Buliding 17, Xinghua Road Xingwei industrial Park Fuyong,

Baoan District, Shenzhen, Guangdong, China

FCC Registration No.: 701733

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Conducted Emission (9KHz-150KHz)	±2.88dB
2	Conducted Emission (150KHz-30MHz)	±2.67dB
3	RF power,conducted	±0.71dB
4	Spurious emissions,conducted	±0.63dB
5	All emissions,radiated(<30M) (9KHz-30MHz)	±3.02dB
6	All emissions,radiated(<1G) 30MHz-200MHz	±3.80dB
7	All emissions,radiated(<1G) 200MHz-1000MHz	±3.97dB
8	All emissions,radiated(>1G)	±3.03dB

Page 8 of 57 Report No.: 1707029W03

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	smart phone		
Trade Name	7 Step		
Model Name	Obelix		
Series Model	N/A		
Model Difference	N/A		
	The EUT is a smart Operation Frequency:	phone 802.11b/g/n 20: 2412~2462 MHz	
	Modulation Type:	CCK/BPSK/QPSK/16QAM	
Product Description	Bit Rate of Transmitter:	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	
	Number Of Channel:	802.11b/g/n20: 11CH	
	Antenna Designation:	Please see Note 3.	
	Antenna Gain(dBi):	-1.8dBi	
	Duty Cycle:	>98%	
Adapter	Input: AC 100-240V, 150mA, 50/60 Hz Output: DC 5V, 1000mA		
	Rated Voltage: 3.7V	,	
Battery	Charge Limit: 4.2V		
	Capacity: 2000mA		
Channel List	Please refer to the Note 2.		
Power rating	DC 5V, 1000mA		
Hardware version number	D200C13_THX_X12_Bello_WEL_45_HD_ GPS_M02_20170509_1441		
Software version number	D200_V4.1		
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.

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802.11b/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

Αr	t Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	7 Step	Obelix	PIFA Antenna	N/A	-1.8	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

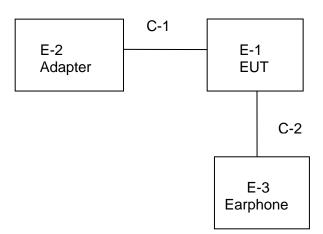
Test Case				
AC Conducted	Mode 10: Keeping WIELTY			
Mode10: Keeping WIFI TX Emission				

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiation Test Set

E-1 EUT

conduction Test Set



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	7 Step	Obelix	N/A	EUT
E-2	Adapter	7 Step	N/A	N/A	N/A
E-3	Earphone	N/A	N/A	N/A	N/A

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 <code>"Length_"</code> 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

Radiation Test equipment							
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until		
EMI Test Receiver	R&S	ESW	101535	2017.06.01	2018.05.31		
Bilog Antenna	TESEQ	CBL6111D	34678	2017.03.24	2018.03.23		
Horn Antenna	Schwarzbeck	BBHA 9120D (1201)	9120D-1343	2017.03.06	2018.03.05		
SHF-EHF Horn Antenna (15G-40GHz)	BBHA 9170	SCHWARZBECK	BBHA9170367	2017.05.02	2018.05.01		
Temperature & Humitidy	HH660	Mieo	N/A	2016.10.25	2017.10.24		
Temperature & Humitidy	HH660	Mieo	N/A	2016.10.25	2017.10.24		
Pre-mplifier (0.1M-3GHz)	EM	EM330	60538	2017.03.12	2018.03.11		
PreAmplifier (1G-26.5GHz)	Agilent	8449B	60538	2016.10.23	2017.10.22		
Pre-mplifier (18G-40G)	MINI-CIRCUITS	AP-040G	1382501	2017.05.15	2018.05.14		
Operational Manual Passive Loop (9K30MHz)	ETS	6512	00165355	2017.03.06	2018.03.05		
Low frequency cable	EM	R01	N/A	2017.03.12	2018.03.11		
Low frequency cable	EM	R06	N/A	2017.03.12	2018.03.11		
High frequency cable	SCHWARZBECK	R04	N/A	2017.03.12	2018.03.11		
High frequency cable	SCHWARZBECK	R02	N/A	2017.03/12	2018.03.11		
Semi-anechoic chamber	Changling	966	N/A	2016.10.23	2017.10.22		
trun table	EM	SC100_1	60531	N/A	N/A		
Antnna mast	EM	SC100	N/A	N/A	N/A		
Max-full Antenna Corp	MF	MFA-440H	N/A	N/A	N/A		

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2016.10.23	2017.10.22
LISN	R&S	ENV216	101242	2016.10.26	2017.10.25
conduction Cable	EM	C01	N/A	2017.03.12	2018.03.11
Temperature & Humitidy	Mieo	HH660	N/A	2016.10.23	2017.10.22

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
USB RF power sensor	DARE	RPR3006W	15I00041SNO03	2016.10.23	2017.10.22
Spectrum Analyzer	Agilent	E4407B	MY50140340	2017.03.11	2018.03.10
Signal Analyzer	Agilent	N9020A	MY49100060	2017.03.11	2018.03.10
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
USB RF power sensor	DARE	RPR3006W	15I00041SNO03	2016.10.23	2017.10.22
Spectrum Analyzer	Agilent	E4407B	MY50140340	2017.03.11	2018.03.10
Signal Analyzer	Agilent	N9020A	MY49100060	2016.10.23	2017.10.22

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.

EDECLIENCY (MH-)	Conducted Emission limit (dBuV)		
FREQUENCY (MHz)	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	
0.50 -5.0	56.00	46.00	
5.0 -30.0	60.00	50.00	

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

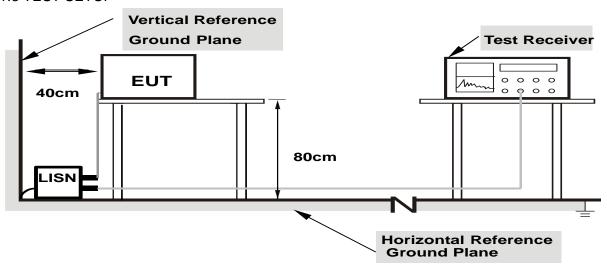
The following table is the setting of the receiver

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

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.

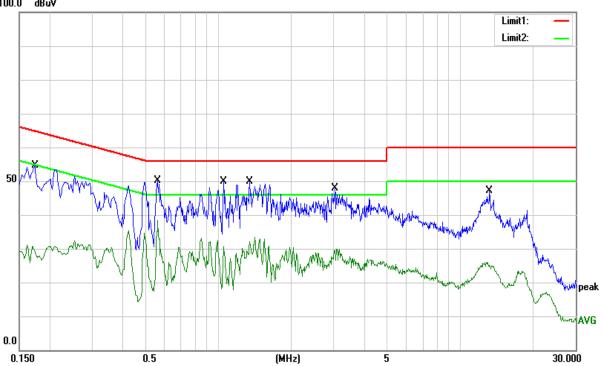
3.1.5 TEST RESULT

Temperature:	25.4 ℃	Relative Humidity:	61%
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
0.1740	44.75	9.81	54.56	64.77	-10.21	QP
0.1740	18.98	9.81	28.79	54.77	-25.98	AVG
0.5620	40.11	9.94	50.05	56.00	-5.95	QP
0.5620	28.39	9.94	38.33	46.00	-7.67	AVG
1.0540	40.07	9.80	49.87	56.00	-6.13	QP
1.0540	20.72	9.80	30.52	46.00	-15.48	AVG
1.3460	40.08	9.82	49.90	56.00	-6.10	QP
1.3460	22.28	9.82	32.10	46.00	-13.90	AVG
3.0260	37.84	9.91	47.75	56.00	-8.25	QP
3.0260	19.62	9.91	29.53	46.00	-16.47	AVG
13.2060	37.00	10.02	47.02	60.00	-12.98	QP
13.2060	14.77	10.02	24.79	50.00	-25.21	AVG

Remark:

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



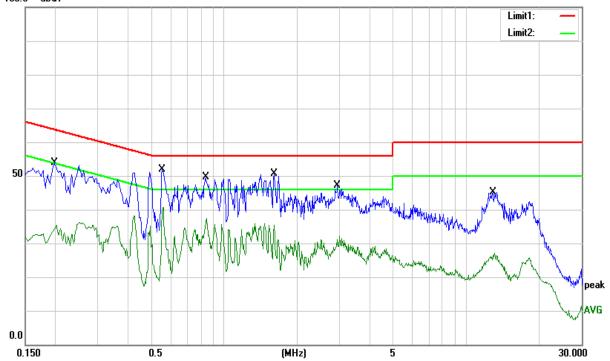
Danie 40 of F7	Damest No. 4707000M00
Page 18 of 57	Report No.: 1707029W03

Temperature:	25.4 ℃	Relative Humidity:	61%
Pressure:	1010hPa	Phase:	N
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 10

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	Remark
0.1980	44.11	9.87	53.98	63.69	-9.71	QP
0.1980	24.60	9.87	34.47	53.69	-19.22	AVG
0.5540	41.88	9.95	51.83	56.00	-4.17	QP
0.5540	30.69	9.95	40.64	46.00	-5.36	AVG
0.8380	39.73	9.84	49.57	56.00	-6.43	QP
0.8380	26.87	9.84	36.71	46.00	-9.29	AVG
1.6020	40.67	9.84	50.51	56.00	-5.49	QP
1.6020	25.65	9.84	35.49	46.00	-10.51	AVG
2.9380	37.30	9.91	47.21	56.00	-8.79	QP
2.9380	20.04	9.91	29.95	46.00	-16.05	AVG
12.8660	35.11	10.01	45.12	60.00	-14.88	QP
12.8660	15.57	10.01	25.58	50.00	-24.42	AVG

Remark:

- All readings are Quasi-Peak and Average values.
 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 Part15.205(a)&209(a) limit in the table and according to ANSI C63.10-2013 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

EIMITO OT TO IDITALED	EMICOIOTT ME/TOOTTEMETT	(0.000111112 1000111112)
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)	(dBuV/m) (at 3M)		
FREQUENCT (MIDZ)	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	10th carrier hamonic(Peak/AV)	
RB / VB (emission in restricted	1 MHz /3MHz	
band)	I IVIHZ /3IVIHZ	

For Band edge

or Barra dage					
Spectrum Parameter	Setting				
Detector	Peak				
Start/Stan Eraguanay	Lower Band Edge: 2300 to 2412 MHz				
Start/Stop Frequency	Upper Band Edge: 2462 to 2500 MHz				
RB / VB (emission in restricted band)	1 MHz /3MHz				

Receiver Parameter	Setting
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

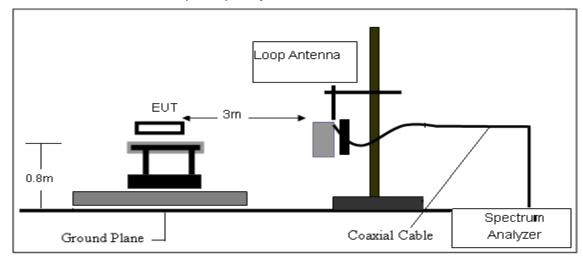
3.2.2 TEST PROCEDURE

- 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.

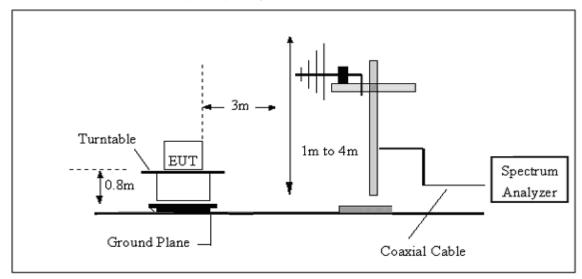
Both horizontal and vertical antenna polarities were tested and performed test to three orthogonal axis. The worst case emissions were reported

3.2.3 TEST SETUP

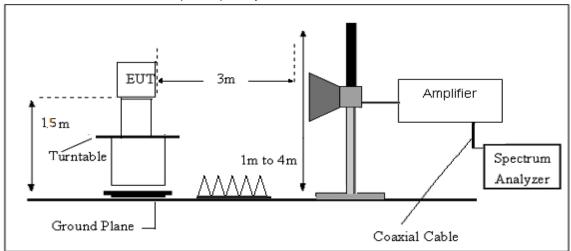
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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.

Page 22 of 57 Report No.: 1707029W03

3.2.5 TEST RESULT

9KHz-30MHz

Temperature:	26 ℃	Relative Humidtity:	60%
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.

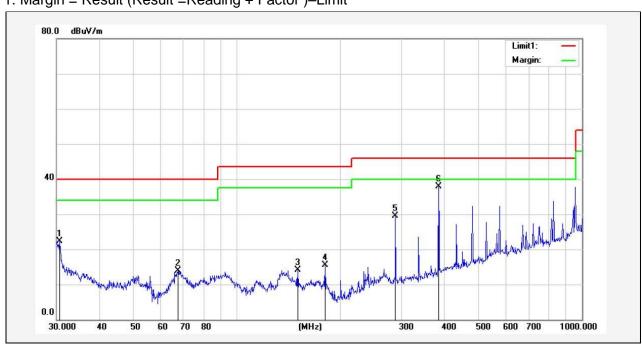
(30MHz - 1000MHz)

Temperature:	26 ℃	Relative Humidtity:	60%
Pressure:	1010 hPa	Test Voltage:	DC 3.7V From Battery
LIACT IVIDAD.	Mode 1/2/3/4/5/6/7/8/9 (Mode1-1M worst mode)	Polarization:	Horizontal

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
30.6380	33.92	-11.52	22.40	40.00	-17.60	QP
67.4382	38.04	-24.16	13.88	40.00	-26.12	QP
150.0108	32.01	-17.97	14.04	43.50	-29.46	QP
180.0165	34.86	-19.44	15.42	43.50	-28.08	QP
287.9904	44.95	-15.49	29.46	46.00	-16.54	QP
383.9318	50.20	-12.35	37.85	46.00	-8.15	QP

Remark:

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

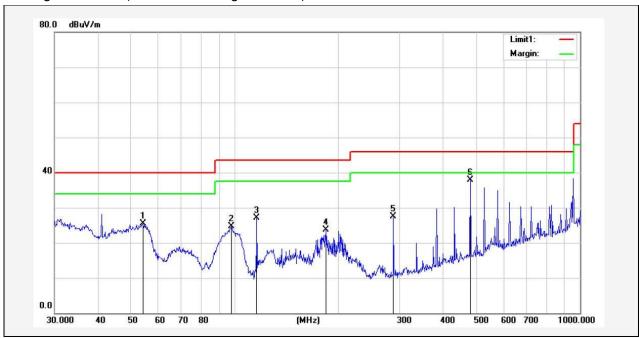


Temperature:	26 ℃	Relative Humidtity:	60%
Pressure:	1010 hPa	Test Voltage:	DC 3.7V From Battery
LIACT IVIDAD.	Mode 1/2/3/4/5/6/7/8/9 (Mode 1-1M worst mode)	Polarization:	Vertical

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
54.0711	48.05	-22.64	25.41	40.00	-14.59	QP
97.4560	44.08	-19.44	24.64	43.50	-18.86	QP
115.7256	45.10	-17.97	27.13	43.50	-16.37	QP
183.8440	43.39	-19.76	23.63	43.50	-19.87	QP
287.9904	43.02	-15.49	27.53	46.00	-18.47	QP
480.5276	47.38	-9.38	38.00	46.00	-8.00	QP

Remark:.

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



(1000MHz-25GHz) Restricted band and Spurious emission Requirements

802.11b Low Channel

				Antenna	Corrected	Emission				
Frequency	Reading	Amplifier	Loss	Factor	Factor	Level	Limits	Margin	Detector	
(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
				Low	Channel (2412 N	⁄/Hz)				
3264.86	48.01	44.70	6.70	28.20	-9.80	38.21	74.00	-35.79	PK	Vertical
3264.86	38.37	44.70	6.70	28.20	-9.80	28.57	54.00	-25.43	AV	Vertical
3264.77	49.20	44.70	6.70	28.20	-9.80	39.40	74.00	-34.60	PK	Horizontal
3264.77	38.03	44.70	6.70	28.20	-9.80	28.23	54.00	-25.77	AV	Horizontal
4824.51	58.66	44.20	9.04	31.60	-3.56	55.10	74.00	-18.90	PK	Vertical
4824.51	38.35	44.20	9.04	31.60	-3.56	34.79	54.00	-19.21	AV	Vertical
4824.53	58.28	44.20	9.04	31.60	-3.56	54.72	74.00	-19.28	PK	Horizontal
4824.53	38.75	44.20	9.04	31.60	-3.56	35.19	54.00	-18.81	AV	Horizontal
5359.74	46.35	44.20	9.86	32.00	-2.34	44.01	74.00	-29.99	PK	Vertical
5359.74	37.86	44.20	9.86	32.00	-2.34	35.52	54.00	-18.48	AV	Vertical
5359.66	46.56	44.20	9.86	32.00	-2.34	44.22	74.00	-29.78	PK	Horizontal
5359.66	37.35	44.20	9.86	32.00	-2.34	35.01	54.00	-18.99	AV	Horizontal
7235.90	51.65	43.50	11.40	35.50	3.40	55.05	74.00	-18.95	PK	Vertical
7235.90	33.89	43.50	11.40	35.50	3.40	37.29	54.00	-16.71	AV	Vertical
7235.86	51.58	43.50	11.40	35.50	3.40	54.98	74.00	-19.02	PK	Horizontal
7235.86	33.42	43.50	11.40	35.50	3.40	36.82	54.00	-17.18	AV	Horizontal
11035.81	39.99	43.60	14.30	39.50	10.20	50.19	74.00	-23.81	PK	Vertical
11035.81	29.73	43.60	14.30	39.50	10.20	39.93	54.00	-14.07	AV	Vertical
11036.08	40.42	43.60	14.30	39.50	10.20	50.62	74.00	-23.38	PK	Horizontal
11036.08	29.99	43.60	14.30	39.50	10.20	40.19	54.00	-13.81	AV	Horizontal
13299.14	40.03	42.60	15.90	38.90	12.20	52.23	74.00	-21.77	PK	Vertical
13299.14	28.54	42.60	15.90	38.90	12.20	40.74	54.00	-13.26	AV	Vertical
13299.31	39.76	42.60	15.90	38.90	12.20	51.96	74.00	-22.04	PK	Horizontal
13299.31	28.77	42.60	15.90	38.90	12.20	40.97	54.00	-13.03	AV	Horizontal
15999.85	40.97	42.70	18.00	37.10	12.40	53.37	74.00	-20.63	PK	Vertical
15999.85	28.64	42.70	18.00	37.10	12.40	41.04	54.00	-12.96	AV	Vertical
15999.70	40.74	42.70	18.00	37.10	12.40	53.14	74.00	-20.86	PK	Horizontal
15999.70	29.47	42.70	18.00	37.10	12.40	41.87	54.00	-12.13	AV	Horizontal
17997.78	31.11	42.70	19.40	46.50	23.20	54.31	74.00	-19.69	PK	Vertical
17997.78	19.12	42.70	19.40	46.50	23.20	42.32	54.00	-11.68	AV	Vertical
17997.64	30.67	42.70	19.40	46.50	23.20	53.87	74.00	-20.13	PK	Horizontal
17997.64	18.08	42.70	19.40	46.50	23.20	41.28	54.00	-12.72	AV	Horizontal

802.11b Mid Channel

				Antenna	Corrected	Emission				
Frequency	Reading	Amplifier	Loss	Factor	Factor	Level	Limits	Margin	Detector	
(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
	Mid Channel (2437 MHz)									
3264.66	48.73	44.70	6.70	28.20	-9.80	38.93	74.00	-35.07	PK	Vertical
3264.66	38.57	44.70	6.70	28.20	-9.80	28.77	54.00	-25.23	AV	Vertical
3264.72	48.09	44.70	6.70	28.20	-9.80	38.29	74.00	-35.71	PK	Horizontal
3264.72	38.00	44.70	6.70	28.20	-9.80	28.20	54.00	-25.80	AV	Horizontal
4874.37	58.54	44.20	9.04	31.60	-3.56	54.98	74.00	-19.02	PK	Vertical
4874.37	38.38	44.20	9.04	31.60	-3.56	34.82	54.00	-19.18	AV	Vertical
4874.37	58.69	44.20	9.04	31.60	-3.56	55.13	74.00	-18.87	PK	Horizontal
4874.37	38.69	44.20	9.04	31.60	-3.56	35.13	54.00	-18.87	AV	Horizontal
5359.71	45.85	44.20	9.86	32.00	-2.34	43.51	74.00	-30.49	PK	Vertical
5359.71	37.34	44.20	9.86	32.00	-2.34	35.00	54.00	-19.00	AV	Vertical
5359.81	45.42	44.20	9.86	32.00	-2.34	43.08	74.00	-30.92	PK	Horizontal
5359.81	38.08	44.20	9.86	32.00	-2.34	35.74	54.00	-18.26	AV	Horizontal
7310.90	51.28	43.50	11.40	35.50	3.40	54.68	74.00	-19.32	PK	Vertical
7310.90	33.77	43.50	11.40	35.50	3.40	37.17	54.00	-16.83	AV	Vertical
7310.92	51.43	43.50	11.40	35.50	3.40	54.83	74.00	-19.17	PK	Horizontal
7310.92	32.75	43.50	11.40	35.50	3.40	36.15	54.00	-17.85	AV	Horizontal
9747.84	40.44	43.60	14.30	39.50	10.20	50.64	74.00	-23.36	PK	Vertical
9747.84	30.00	43.60	14.30	39.50	10.20	40.20	54.00	-13.80	AV	Vertical
9748.10	40.24	43.60	14.30	39.50	10.20	50.44	74.00	-23.56	PK	Horizontal
9748.10	31.12	43.60	14.30	39.50	10.20	41.32	54.00	-12.68	AV	Horizontal
13299.34	40.69	42.60	15.90	38.90	12.20	52.89	74.00	-21.11	PK	Vertical
13299.34	28.54	42.60	15.90	38.90	12.20	40.74	54.00	-13.26	AV	Vertical
13299.26	40.12	42.60	15.90	38.90	12.20	52.32	74.00	-21.68	PK	Horizontal
13299.26	30.05	42.60	15.90	38.90	12.20	42.25	54.00	-11.75	AV	Horizontal
15999.85	40.26	42.70	18.00	37.10	12.40	52.66	74.00	-21.34	PK	Vertical
15999.85	28.64	42.70	18.00	37.10	12.40	41.04	54.00	-12.96	AV	Vertical
15999.62	39.89	42.70	18.00	37.10	12.40	52.29	74.00	-21.71	PK	Horizontal
15999.62	29.62	42.70	18.00	37.10	12.40	42.02	54.00	-11.98	AV	Horizontal
17997.91	30.60	42.70	19.40	46.50	23.20	53.80	74.00	-20.20	PK	Vertical
17997.91	19.70	42.70	19.40	46.50	23.20	42.90	54.00	-11.10	AV	Vertical
17997.57	30.37	42.70	19.40	46.50	23.20	53.57	74.00	-20.43	PK	Horizontal
17997.57	18.86	42.70	19.40	46.50	23.20	42.06	54.00	-11.94	AV	Horizontal

802.11b High Channel

				Antenna	Corrected	Emission				Antenna Corrected Emission								
Frequency	Reading	Amplifier	Loss	Factor	Factor	Level	Limits	Margin	Detector									
(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment								
High Channel (2462 MHz)																		
3264.66	48.76	44.70	6.70	28.20	-9.80	38.96	74.00	-35.04	PK	Vertical								
3264.66	37.92	44.70	6.70	28.20	-9.80	28.12	54.00	-25.88	AV	Vertical								
3264.65	48.82	44.70	6.70	28.20	-9.80	39.02	74.00	-34.98	PK	Horizontal								
3264.65	38.46	44.70	6.70	28.20	-9.80	28.66	54.00	-25.34	AV	Horizontal								
4924.39	59.52	44.20	9.04	31.60	-3.56	55.96	74.00	-18.04	PK	Vertical								
4924.39	39.03	44.20	9.04	31.60	-3.56	35.47	54.00	-18.53	AV	Vertical								
4924.59	59.16	44.20	9.04	31.60	-3.56	55.60	74.00	-18.40	PK	Horizontal								
4924.59	38.28	44.20	9.04	31.60	-3.56	34.72	54.00	-19.28	AV	Horizontal								
5359.78	45.47	44.20	9.86	32.00	-2.34	43.13	74.00	-30.87	PK	Vertical								
5359.78	37.41	44.20	9.86	32.00	-2.34	35.07	54.00	-18.93	AV	Vertical								
5359.70	45.71	44.20	9.86	32.00	-2.34	43.37	74.00	-30.63	PK	Horizontal								
5359.70	37.54	44.20	9.86	32.00	-2.34	35.20	54.00	-18.80	AV	Horizontal								
7385.75	52.01	43.50	11.40	35.50	3.40	55.41	74.00	-18.59	PK	Vertical								
7385.75	33.45	43.50	11.40	35.50	3.40	36.85	54.00	-17.15	AV	Vertical								
7385.72	51.63	43.50	11.40	35.50	3.40	55.03	74.00	-18.97	PK	Horizontal								
7385.72	32.96	43.50	11.40	35.50	3.40	36.36	54.00	-17.64	AV	Horizontal								
9847.74	40.17	43.60	14.30	39.50	10.20	50.37	74.00	-23.63	PK	Vertical								
9847.74	30.21	43.60	14.30	39.50	10.20	40.41	54.00	-13.59	AV	Vertical								
9848.21	40.19	43.60	14.30	39.50	10.20	50.39	74.00	-23.61	PK	Horizontal								
9848.21	29.88	43.60	14.30	39.50	10.20	40.08	54.00	-13.92	AV	Horizontal								
13299.38	40.81	42.70	18.00	37.10	12.40	53.21	74.00	-20.79	PK	Vertical								
13299.38	28.54	42.70	18.00	37.10	12.40	40.94	54.00	-13.06	AV	Vertical								
13299.27	41.08	42.70	18.00	37.10	12.40	53.48	74.00	-20.52	PK	Horizontal								
13299.27	28.66	42.70	18.00	37.10	12.40	41.06	54.00	-12.94	AV	Horizontal								
17997.92	30.68	42.70	19.40	46.50	23.20	53.88	74.00	-20.12	PK	Vertical								
17997.92	19.59	42.70	19.40	46.50	23.20	42.79	54.00	-11.21	AV	Vertical								
17997.79	29.92	42.70	19.40	46.50	23.20	53.12	74.00	-20.88	PK	Horizontal								
17997.79	18.63	42.70	19.40	46.50	23.20	41.83	54.00	-12.17	AV	Horizontal								

Remark:

- 1. Corrected Factor = Amplifier.-Antenna Factor Cable Loss
- 2. Scan with 802.11b, 802.11g, 802.11n (HT-20) the worst case is 802.11b.

Emission Level = 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 Requirements)

				Antenna	Corrected	Emission				
Frequency	Reading	Amplifier	Loss	Factor	Factor	Level	Limits	Margin	Detector	
(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
					802.11b					
2390.00	68.20	43.80	4.91	25.90	-12.99	55.21	74.00	-18.79	PK	Vertical
2390.00	54.44	43.80	4.91	25.90	-12.99	41.45	54.00	-12.55	AV	Vertical
2390.00	68.99	43.80	4.91	25.90	-12.99	56.00	74.00	-18.00	PK	Horizontal
2390.00	52.31	43.80	4.91	25.90	-12.99	39.32	54.00	-14.68	AV	Horizontal
2483.50	69.08	43.80	5.12	25.90	-12.78	56.30	74.00	-17.70	PK	Vertical
2483.50	52.73	43.80	5.12	25.90	-12.78	39.95	54.00	-14.05	AV	Vertical
2483.50	69.38	43.80	5.12	25.90	-12.78	56.60	74.00	-17.40	PK	Horizontal
2483.50	52.57	43.80	5.12	25.90	-12.78	39.79	54.00	-14.21	AV	Horizontal
	802.11g									
2390.00	66.65	43.80	4.91	25.90	-12.99	53.66	74.00	-20.34	PK	Vertical
2390.00	53.24	43.80	4.91	25.90	-12.99	40.25	54.00	-13.75	AV	Vertical
2390.00	66.28	43.80	4.91	25.90	-12.99	53.29	74.00	-20.71	PK	Horizontal
2390.00	53.23	43.80	4.91	25.90	-12.99	40.24	54.00	-13.76	AV	Horizontal
2483.50	66.54	43.80	5.12	25.90	-12.78	53.76	74.00	-20.24	PK	Vertical
2483.50	52.65	43.80	5.12	25.90	-12.78	39.87	54.00	-14.13	AV	Vertical
2483.50	66.36	43.80	5.12	25.90	-12.78	53.58	74.00	-20.42	PK	Horizontal
2483.50	52.97	43.80	5.12	25.90	-12.78	40.19	54.00	-13.81	AV	Horizontal
					802.11n20			•		
2390.00	66.46	43.80	4.91	25.90	-12.99	53.47	74.00	-20.53	PK	Vertical
2390.00	52.36	43.80	4.91	25.90	-12.99	39.37	54.00	-14.63	AV	Vertical
2390.00	65.22	43.80	4.91	25.90	-12.99	52.23	74.00	-21.77	PK	Horizontal
2390.00	54.09	43.80	4.91	25.90	-12.99	41.10	54.00	-12.90	AV	Horizontal
2483.50	66.55	43.80	5.12	25.90	-12.78	53.77	74.00	-20.23	PK	Vertical
2483.50	53.05	43.80	5.12	25.90	-12.78	40.27	54.00	-13.73	AV	Vertical
2483.50	66.07	43.80	5.12	25.90	-12.78	53.29	74.00	-20.71	PK	Horizontal
2483.50	53.33	43.80	5.12	25.90	-12.78	40.55	54.00	-13.45	AV	Horizontal

Remark: Corrected Factor = Amplifier.-Antenna Factor - Cable Loss.

Low measurement frequencies is range from 2300 to 2412 MHz, high measurement frequencies is range from 2462 to 2500 MHz.

Only show the worst point data of the emissions in the frequency 2300-2412 MHz and 2462-2500 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

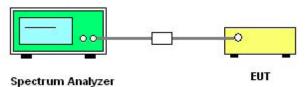
Spectrum Parameter	Setting		
Detector	Peak		
Start/Stop Frequency	30 MHz to 10th carrier harmonic		
RB / VB (emission in restricted band)	100 KHz/300 KHz		
Trace-Mode:	Max hold		

For Band edge

Spectrum Parameter	Setting		
Detector	Peak		
Stort/Ston Fraguency	Lower Band Edge: 2300 to 2412 MHz		
Start/Stop Frequency	Upper Band Edge: 2462 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.

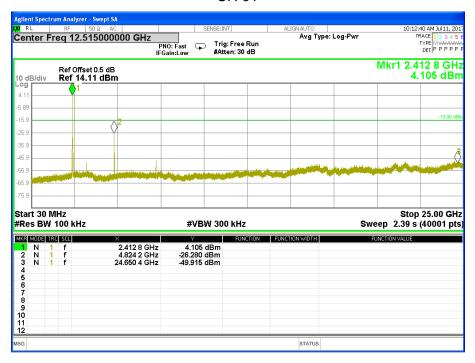
4.5 EUT OPERATION CONDITIONS

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.

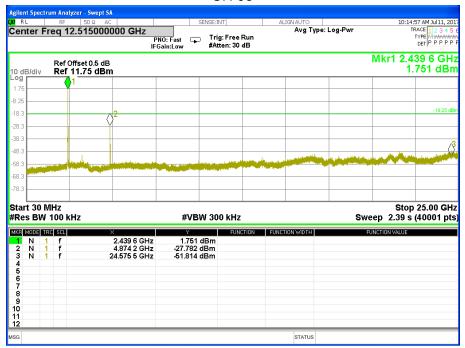
4.6 TEST RESULTS

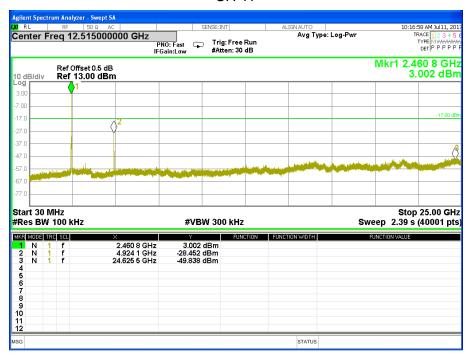
Temperature:	25 ℃	Relative Humidity:	60%			
Pressure:	1015 hPa	Test Voltage:	DC 3.7V			
Test Mode: TX b Mode /CH01, CH06, CH11						

CH 01



CH 06





CH 01

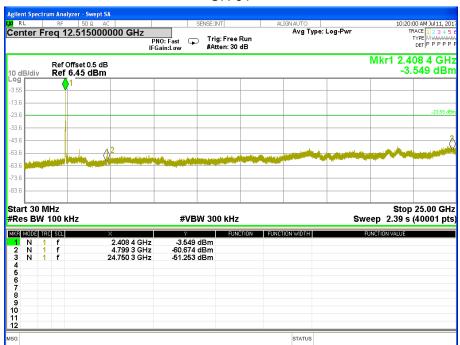


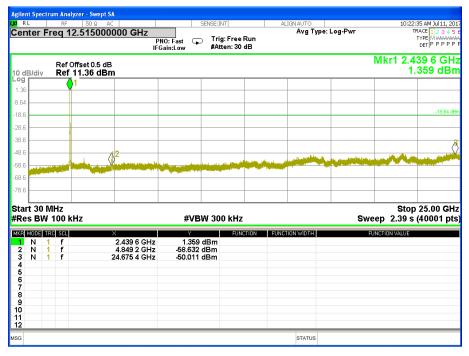


Page 33 of 57 Report No.: 1707029W03

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

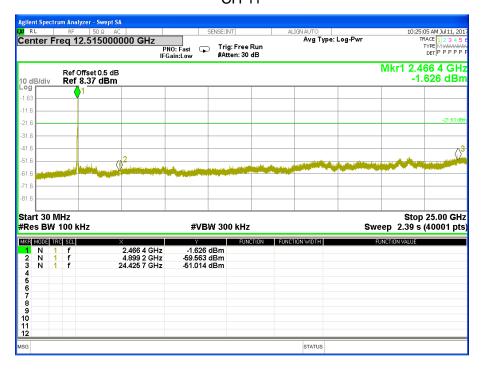
CH 01





CH 11

Page 34 of 57



CH 01

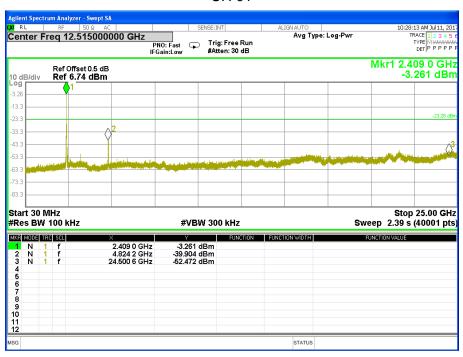


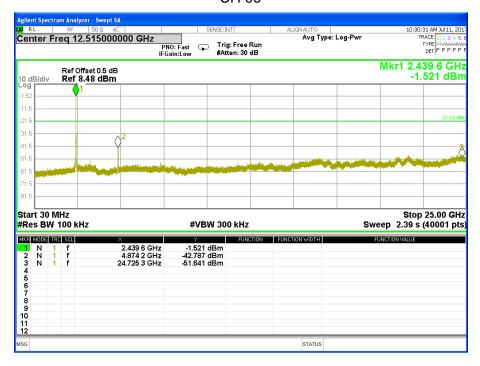


Page 36 of 57 Report No.: 1707029W03

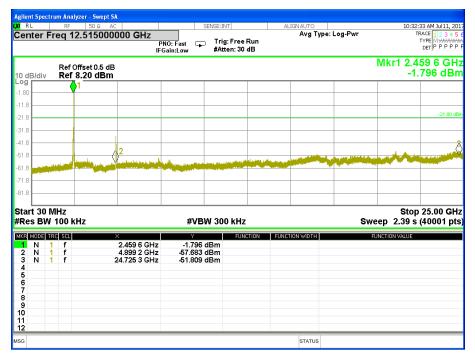
Temperature:	25 ℃	Relative Humidity:	60%				
Pressure:	1015 hPa	Test Voltage:	DC 3.7V				
Test Mode:	e: TX n Mode(20M) /CH01, CH06, CH11						

CH 01

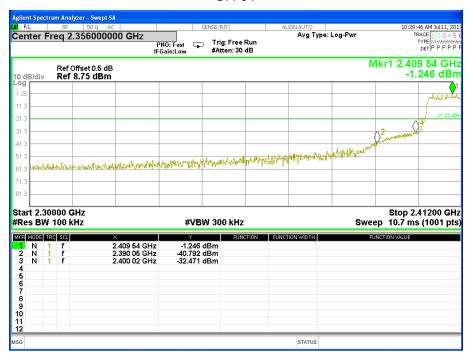




CH 11



CH 01



CH 11



5. POWER SPECTRAL DENSITY TEST

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15.247 , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e)	Power Spectral Density	≤8 dBm (RBW ≥ 3KHz)	2400-2483.5	PASS

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 ≥ 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



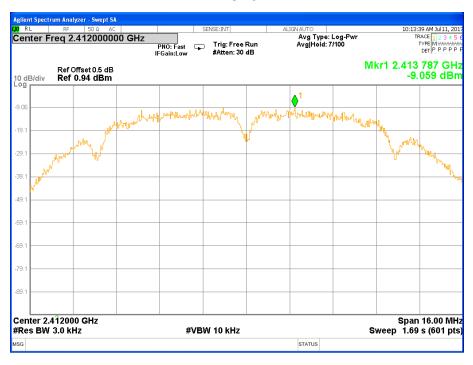
5.5 EUT OPERATION CONDITIONS

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	-9.059	≤8	PASS
2437 MHz	-10.023	≤8	PASS
2462 MHz	-10.055	≤8	PASS





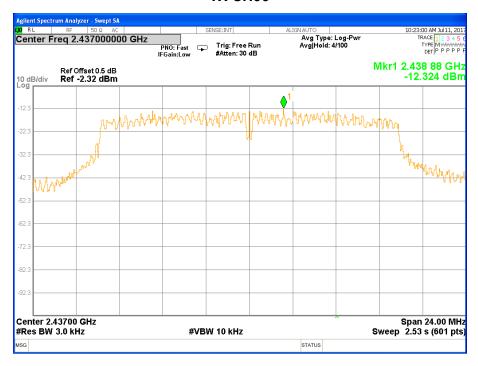


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Page 42 of 57	Report No.:	1707029W03

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	-14.133	≥8	PASS
2437 MHz	-12.324	≤8	PASS
2462 MHz	-13.184	≤8	PASS





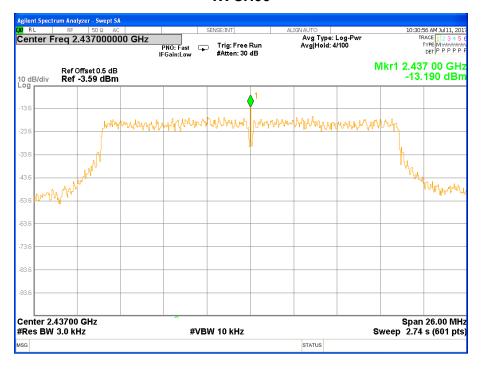


Page 44 of 57	Report No.: 1707029W03
Page 44 or 57	REDOIT NO 1/U/U/9WU3

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	-13.188	≤8	PASS
2437 MHz	-13.190	≤8	PASS
2462 MHz	-13.988	≤8	PASS







6. BANDWIDTH TEST

6.1 APPLIED PROCEDURES / LIMIT

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

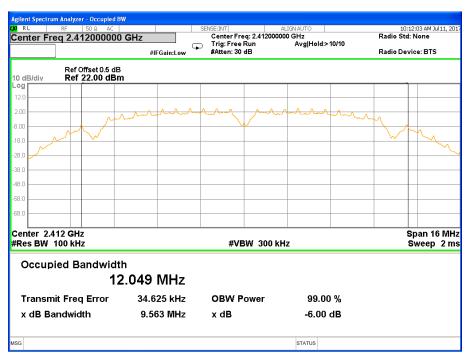
6.6 TEST RESULTS

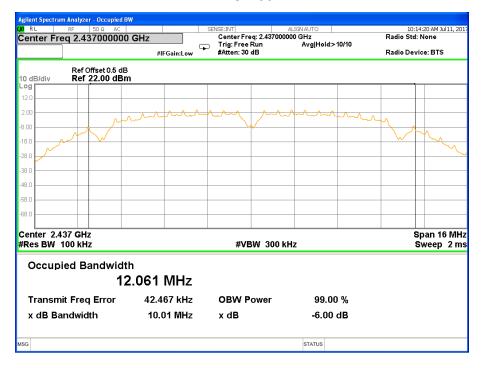
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage:	DC 3.7V
Test Mode:	TX b Mode /CH01, CH06, CH11		

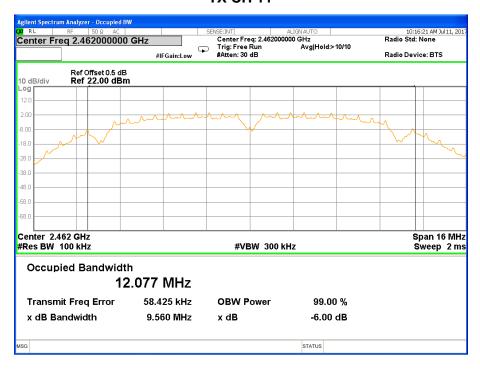
Remark: PEAK DETECTOR IS USED

Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2412 MHz	9.56	≥500KHz	PASS
2437 MHz	10.01	≥500KHz	PASS
2462 MHz	9.56	≥500KHz	PASS

TX CH 01



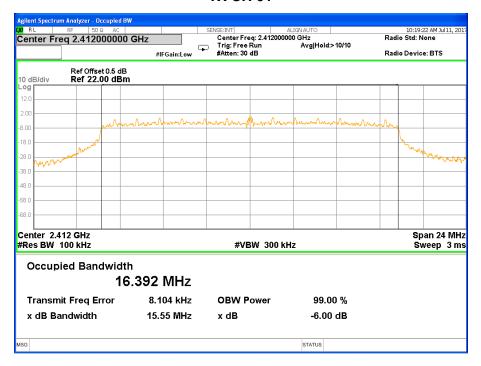


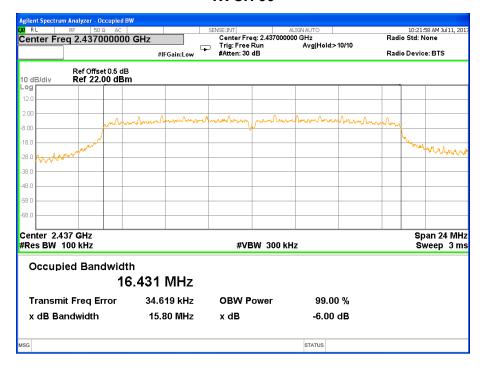


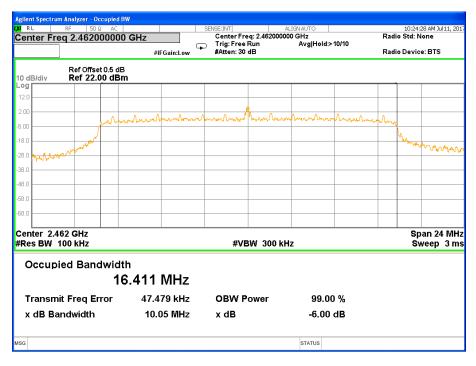
Page 49 of 57	Report No.: 1707029W03
Page /lu of 5/	RAPORT NO : 1/11/11/24W113
laue To Ol ol	NEDULI NO I / U / UZ3 V / US

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	15.55	≥500KHz	PASS
2437 MHz	15.80	≥500KHz	PASS
2462 MHz	10.05	≥500KHz	PASS



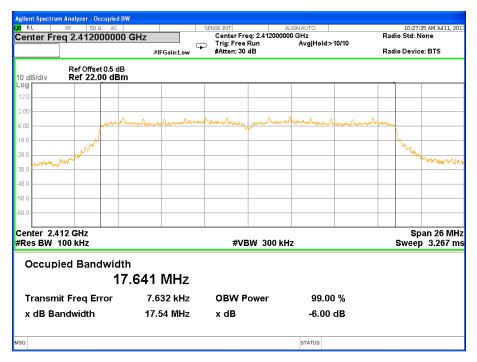


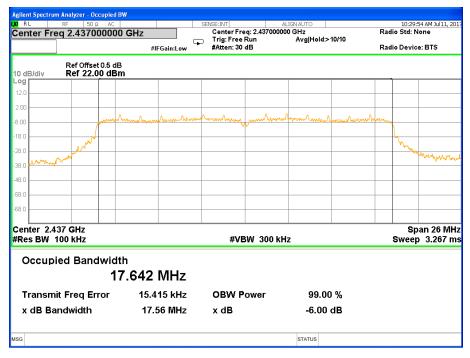


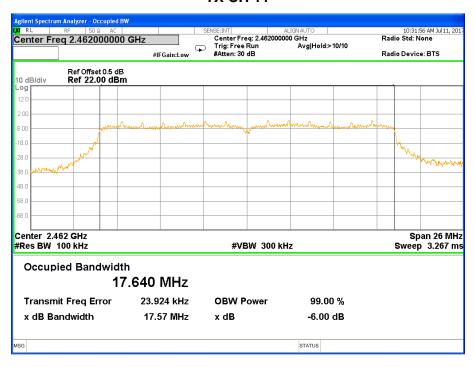
Page 51 of 57	Report No.: 1707029W03
Page 51 of 5/	RADORT NO 1/11/11/99VIIX

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	17.54	≥500KHz	PASS
2437 MHz	17.56	≥500KHz	PASS
2462 MHz	17.57	≥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				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	Output Power	LIMIT	
Channel	(MHz)	Peak(dBm)	AVG(dBm)	dBm	
CH01	2412	14.25	13.23	30	
CH06	2437	13.63	12.61	30	
CH11	2462	13.48	12.47	30	

	TX 802.11g Mode				
Test	Frequency	Conducted (Output Power	LIMIT	
Channel	(MHz)	Peak(dBm)	AVG(dBm)	dBm	
CH01	2412	13.02	12.01	30	
CH06	2437	12.61	11.59	30	
CH11	2462	12.53	11.51	30	

TX 802.11n20 Mode				
Test Channel	Frequency	Conducted Output Power		LIMIT
	(MHz)	Peak(dBm)	AVG(dBm)	dBm
CH01	2412	9.79	7.78	30
CH06	2437	9.68	7.67	30
CH11	2462	9.52	7.51	30

Report No.: 1707029W03

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 Internal PIFA Antenna. It comply with the standard requirement.

APPENDIX - PHOTOS OF TEST SETUP







Conducted Measurement Photos



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