

FCC TEST REPORT for Low Power Radio Solutions Ltd

Radio Transceiver Module Model No.: eRIC9

Prepared for : Low Power Radio Solutions Ltd

Address : Two Rivers Ind Est, Station Lane, Witney, OX28 4BH, United

Kingdom

Prepared By : Shenzhen Anbotek Compliance Laboratory Limited

Address : 1/F., Building 1, SEC Industrial Park, No.0409 Qianhai Road,

Nanshan District, Shenzhen, Guangdong, China

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Report Number : R011505565I

Date of Test : Jun. 01~ Jul. 02, 2015

Date of Report : Jul. 03, 2015



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TEST REPORT

Applicant : Low Power Radio Solutions Ltd

Manufacturer : Low Power Radio Solutions Ltd

EUT : Radio Transceiver Module

Model No. : eRIC9
Serial No. : N.A.
Trade Mark : N.A.

Rating : DC 5V Via USB Port

Measurement Procedure Used:

FCC Part15 Subpart C 2014, Paragraph 15.247

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Test:	Jun. 01∼ Jul. 02, 2015
Prepared by :	keloo zhavy
	(Tested Engineer / Kebo Zhang)
Reviewer:	Amy Ding
	(Project Manager / Amy Ding)
	Ton Jen
Approved & Authorized Signer :	(Manager / Tom Chen)



1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : Radio Transceiver Module

Model Number : eRIC9

Test Power Supply: DC 5V Via USB Port

RF Transmission : 908-922MHz

Frequency

Channels : 15

Channel Space : 1MHz

Modulation ASK

Antenna Gain: 3dBi Max. for mor details, refer to clause 2.2.

Applicant : Low Power Radio Solutions Ltd

Address : Two Rivers Ind Est, Station Lane, Witney, OX28 4BH, United

Kingdom

Manufacturer : Low Power Radio Solutions Ltd

Address : Two Rivers Ind Est, Station Lane, Witney, OX28 4BH, United

Kingdom

Factory : Low Power Radio Solutions Ltd

Address : Two Rivers Ind Est, Station Lane, Witney, OX28 4BH, United

Kingdom

Date of receipt : Jun. 01, 2015

Date of Test : Jun. 01~ Jul. 02, 2015



1.2. Auxiliary Equipment Used during Test

PC : Manufacturer: DELL

M/N: OPTIPLEX 380

S/N: 1J63X2X CE, FCC: DOC

MONITOR : Manufacturer: DELL

M/N: E170Sc

S/N: CN-00V539-64180-055-0UPS

CE, FCC: DOC

KEYBOARD : Manufacturer: DELL

M/N: SK-8115

S/N: CN-0DJ313-71616-06C-02XN

CE, FCC: DOC Cable: 1m, unshielded

MOUSE : Manufacturer: DELL

M/N: M-UARDEL7

S/N: N/A

CE, FCC: DOC

Cable: 1m, unshielded

Printer : Manufacturer:Brother

M/N: MFC-3360C

S/N: N/A

CE, FCC:DOC

Power Line : Non-Shielded, 1.5m

VGA Cable : Non-Shielded, 1.5m



1.3. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS - LAB Code: L3503

Shenzhen Anbotek Compliance Laboratory Limited., Laboratory has been assessed and in compliance with CNAS/CL01: 2006 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

FCC-Registration No.: 752021

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registed and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 752021, July 10, 2013.

IC-Registration No.: 8058A-1

Shenzhen Anbotek Compliance Laboratory Limited., EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration 8058A, February 22, 2013.

Test Location

All Emissions tests were performed at

Shenzhen Anbotek Compliance Laboratory Limited. at 1/F., Building 1, SEC Industrial Park, No.0409 Qianhai Road, Nanshan District, Shenzhen, Guangdong, China

1.4. Measurement Uncertainty

Radiation Uncertainty : Ur = 4.1 dB (Horizontal)

Ur = 4.3 dB (Vertical)

Conduction Uncertainty : Uc = 3.4dB



2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10: 2013 and FCC Part 15, Paragraph 15.247.

2.1. Summary of Test Results

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.107, 15.207	Conducted Emission Test	PASS	Complies
FCC Part 15, Paragraph 15.247(b)(1)	Maximum Output Power	PASS	Complies
FCC Part 15, Paragraph 15.247(a)(2)	6dB Bandwidth	PASS	Complies
FCC Part 15, Paragraph 15.247(c)	100kHz Bandwidth of Frequency Band Edges	PASS	Complies
FCC Part 15, Paragraph 15.209(a)(f)	Spurious Emission	PASS	Complies
FCC Part 15, Paragraph 15.247(a)(1)	Frequency Separation	<u> </u>	N/A
FCC Part 15, Paragraph 15.247(a)(1)(iii)	Number of Hopping Frequency	/ -	N/A
FCC Part 15, Paragraph 15.247(a)(1)(iii)	Time of Occupancy	-	N/A
FCC Part 15, Paragraph 15.247(c)	Peak Power Density	PASS	Complies

2.2. Description of Antennas Specification

Antenna Type	Model Number	Max. Antenna Gain
Antenna 1	ANT-900MS/MR	3.0dBi
Antenna 2	ANT-WP915SMA-Y	2.5dBi
Antenna 3	ANT-SS/SR900	2.1dBi
Antenna 4	ANT-RP915SMA-Y	2.0dBi

2.3. Description of Test Modes

The EUT has been tested under operating condition.

Software used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Tests with all the four antennas have been evaludated, found that tests with Antenna 1 were the worst case.

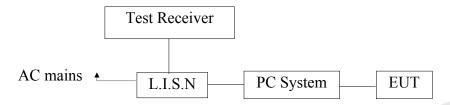
Channel 1(908MHz), Channel 8(915MHz) and Channel 15(922MHz) with Antenna 1 are chosen for the final testing.



3. Conducted Emission Test

3.1. Block Diagram of Test Setup

3.1.1. Block diagram of connection between the EUT and simulators



3.2. Power Line Conducted Emission Measurement Limits (15.207)

Frequency	Limits dB(µV)				
MHz	Quasi-peak Level	Average Level			
0.15 ~ 0.50	66 ~ 56*	56 ~ 46*			
0.50 ~ 5.00	56	46			
5.00 ~ 30.00	60	50			

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3.3. Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4. Operating Condition of EUT

- 3.4.1. Setup the EUT and simulator as shown as Section 3.1.
- 3.4.2. Turn on the power of all equipment.
- 3.4.3. Let the EUT work in test mode (On) and measure it.



3.5. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10-2013 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9KHz.

The frequency range from 150KHz to 30MHz is checked.

The test results are reported on Section 3.6.

3.6. Test equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Two-Line V-network	Rohde & Schwarz	ENV216	100055	Apr. 17, 2015	1 Year
	v-network					
2.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Apr. 17, 2015	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Apr. 17, 2015	1 Year

3.7. Power Line Conducted Emission Measurement Results **PASS.**

The frequency range from 150KHz to 30 MHz is investigated.

Please refer the following pages.



CONDUCTED EMISSION TEST DATA

Test Site: 1# Shielded Room

Operating Condition: On

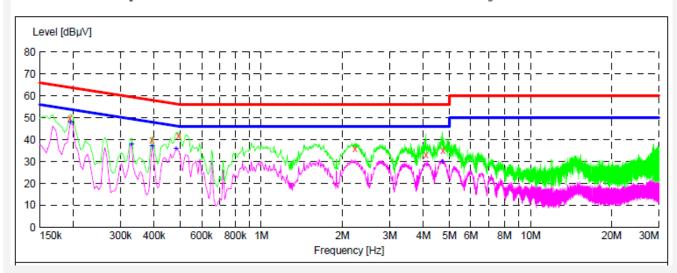
Test Specification: DC 5V Via USB Port

Comment: Live Line

Tem.:25°C Hum.:50%

SCAN TABLE: "Voltage (150K~30M) FIN"

Short Description: 150K-30M Disturbance Voltages



Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.195000	49.90	20.1	64	13.9	QP	L1	GND
0.393000	40.00	20.1	58	18.0		L1	GND
0.492000	41.80	20.1	56	14.3		L1	GND
2.228500	35.80	20.3	56	20.2	QP	L1	GND
4.091500	33.20	20.5	56	22.8	QP	L1	GND
4.721500	35.10	20.5	56	20.9	QP	L1	GND

Frequency MHz	Level dBµV		Limit dBµV	Margin dB	Detector	Line	PE
0.195000	47.80	20.1	54	6.0	AV	L1	GND
0.330000	38.00	20.1	50	11.5	AV	L1	GND
0.393000	37.30	20.1	48	10.7	AV	L1	GND
0.483000	35.80	20.1	46	10.5	AV	L1	GND
4.699000	30.00	20.5	46	16.0	AV	L1	GND



CONDUCTED EMISSION TEST DATA

Test Site: 1# Shielded Room

Operating Condition: On

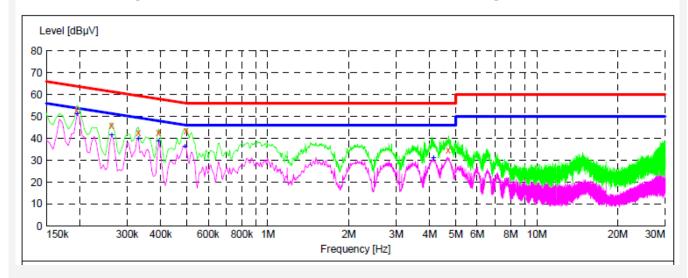
Test Specification: DC 5V Via USB Port

Comment: Neutral Line

Tem.:25°C Hum.:50%

SCAN TABLE: "Voltage (150K~30M) FIN"

Short Description: 150K-30M Disturbance Voltages



Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.195000	53.00	20.1	64	10.8	QP	N	GND
0.262500	46.10	20.1	61	15.3	QP	N	GND
0.330000	42.60	20.1	60	16.9	QP	N	GND
0.393000	42.70	20.1	58	15.3	QP	N	GND
0.496500	43.50	20.1	56	12.6	QP	N	GND
4.681000	34.90	20.5	56	21.1	QP	N	GND
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.195000	50.50	20.1	54	3.4	AV	N	GND
0.262500	41.30	20.1	51	10.1	AV	N	GND
0.330000	39.70	20.1	50	9.8	AV	N	GND
0.393000	38.60	20.1	48	9.4	AV	N	GND
0.492000	36.30	20.1	46	9.8	AV	N	GND
4.127500	31.10	20.5	46	14.9	AV	N	GND



4. FCC Part 15.247 Requirements for DSSS & OFDM Modulation

4.1. Test Setup

EUT System	Attenuator	Test Receiver
201 27000111	1 100011000001	1000110001101

4.2. 6dB Bandwidth

a. Limit

For the direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz.

b.Test Procedure

- 1. Place the EUT on the table and set it in the transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as:

RBW = 100kHz, $VBW \ge 3*RBW = 300kHz$,

Detector= Peak

Trace mode= Max hold.

Sweep- auto couple.

- 4. Mark the peak frequency and –6dB (upper and lower) frequency.
- 5. Repeat until all the rest channels are investigated.

20dB Bandwidth:

C63.10

Occupied Bandwidth (OBW=20dB Bandwidth

- 1. Set RBW=1%~5% OBW
- 2. Set the VBW≥3*RBW
- 3. Set the span range between 2 times and 5 times of the OBW
- 4. Sweep Time= Auto

Detector= Peak

Trace= Max hold

5. Once the reference level is established, the equipment is conditioned with typical modulating signals to produce the worst case (i.e. the widest) bandwidth. Unless otherwise specified for an unlicensed wireless device, measure the bandwidth at the -20dB levels with respect to the reference level.



c. Test Setup See 4.1

d. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analysis	Agilent	E4407B	US39390582	Apr. 17, 2015	1 Year
2.	Preamplifier	Instruments corporation	EMC01183 0	980100	Apr. 17, 2015	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESPI	101604	Apr. 17, 2015	1 Year
4.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Apr. 20, 2015	1 Year
5.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Apr. 20, 2015	1 Year
6.	Pre-amplifier	SONOMA	310N	186860	Apr. 17, 2015	1 Year
7.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A

e. Test Results

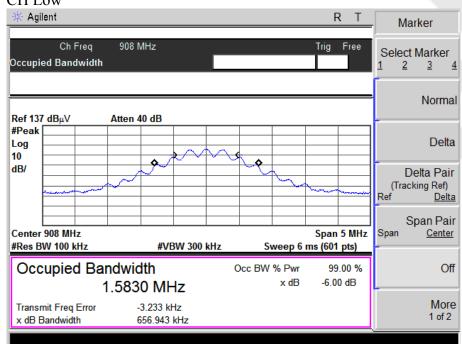
Pass.



f. Test Data 6dB Bandwidth

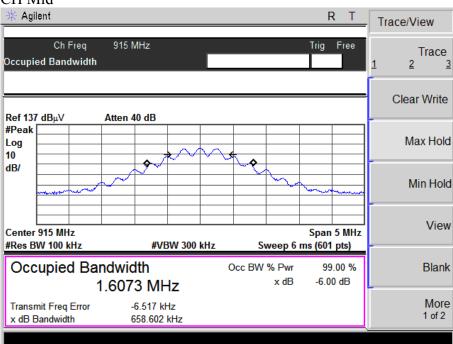
Channel	Frequency	Bandwidth	Limit	Results
	(MHz)	(kHz)	(kHz)	
Low	908	656.943		Pass
Mid	915	658.602	>500	Pass
High	922	658.514		Pass

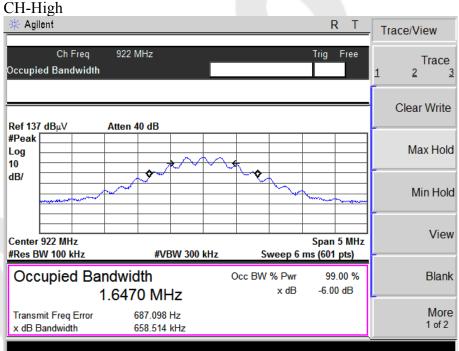
CH Low





CH Mid



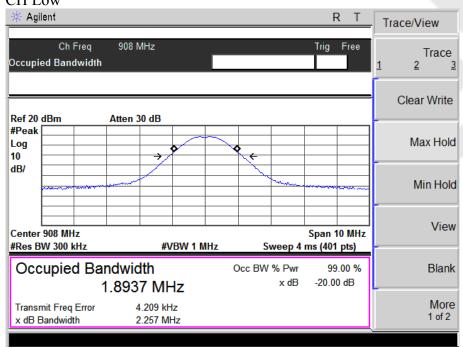




20dB Bandwidth

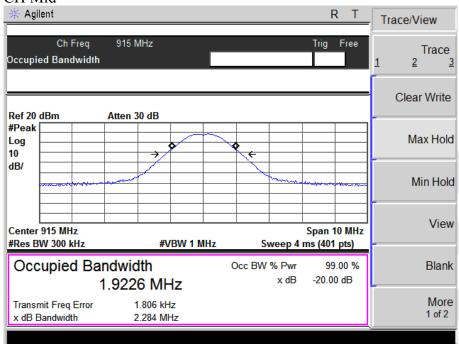
Channel	Frequency (MHz)	Bandwidth (MHz)	Results
Low	908	2.257	Pass
Mid	915	2.284	Pass
High	922	2.323	Pass

CH Low

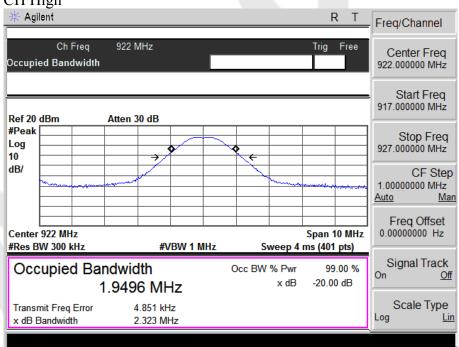




CH Mid



CH High





4.3. Maximum Output Power Test

a. Limit

The maximum output power of the intentional radiator shall not exceed the following:

- 1. For systems using digital modulation in the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz: 1 watt (30dBm).
- 2. Except as shown in paragraphs (b)(3) (i), (ii) and (iii) of this section, if transmitting antenna of directional gain greater than 6 dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1) or (b)(2) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

b. Configuration of Measurement

EUT	DC block	ATT.		Test receiver	
-----	----------	------	--	---------------	--

c. Test Procedure

This test was according the kDB 558074 9.2.2:

- 1. Set span to at least 1.5 times the OBW.
- 2. Set the RBW = $1\sim5\%$ of the OBW, not to exceed 1MHz.
- 3. Set VBW≥3*RBW.
- 4. Detector = Average.
- 5. Sweep time = auto couple.
- 6. Trace mode = max hold.
- 7. Allow trace to fully stabilize.

d. Test Equipment

Same as the equipment listed in 4.2.

e. Test Results

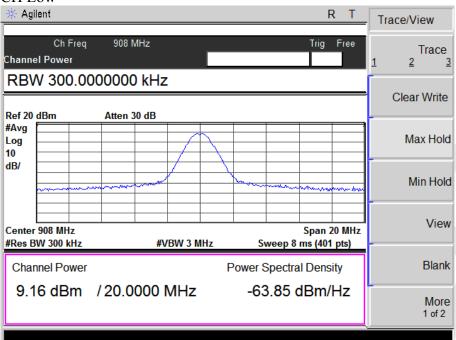
Pass.

g. Test Data

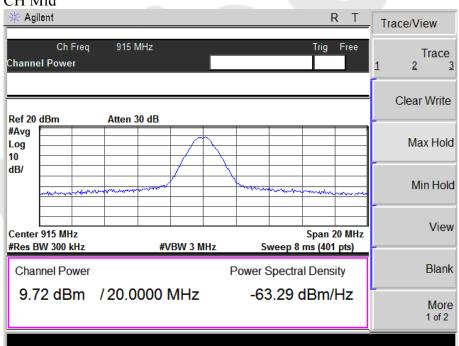
Channel	Frequency	Maximum transmit power	Limit		Result
Chamilei	(MHz)	(dBm)	(dBm)	(watts)	Resuit
Low	908	9.16			Pass
Mid	915	9.72	30	1	Pass
High	922	9.32			Pass



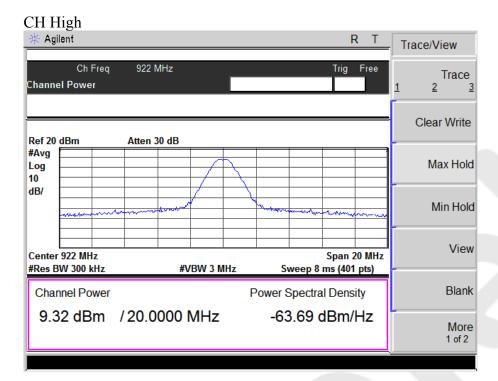
CH Low



CH Mid









4.4. Band Edges Measurement

a. Limit

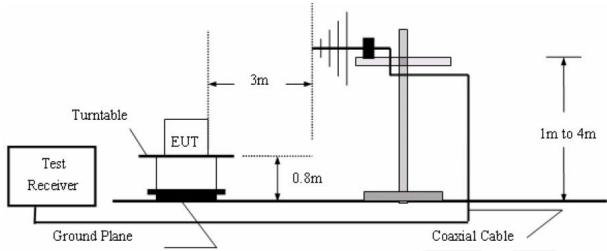
According to §15.247(c), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in15.209(a).

b. Test Procedure

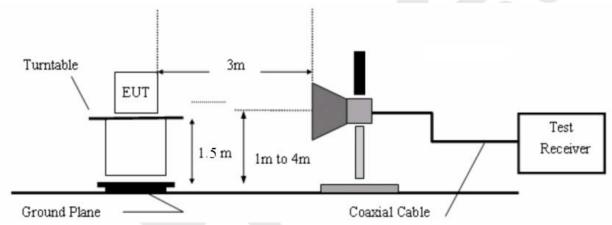
- 1. Conducted Method:
- 1) Set RBW=100KHz, VBW=300KHz
- 2) Detector=peak
- 3) Sweep time= auto
- 4) Trace mode=max hold.
- 2. Radiated Method:
- 1) For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane. The EUT is tested in 9*6*6 Chamber.
 - For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane. The EUT is tested in 9*6*6 Chamber.
- 2) The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3) EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- 4) Peak detector: RBW=1MHz, VBW=3MHz, SWT=AUTO Average detector: RBW=1MHz, VBW=10Hz, SWT=AUTO The EUT is tested in 9*6*6 Chamber.
- 5) Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are measured.



30M to 1G emissions:



1G to 40G emissions:



c. Test Equipment

Same as the equipment listed in 4.2.

d. Test Results

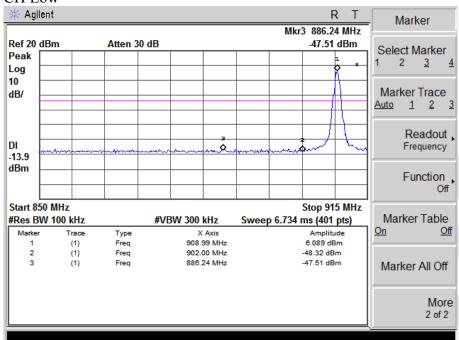
Pass.

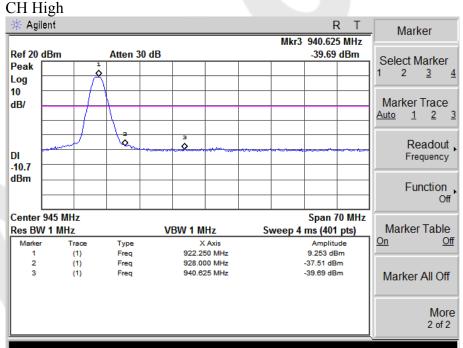
e. Test Plots

See the following page.



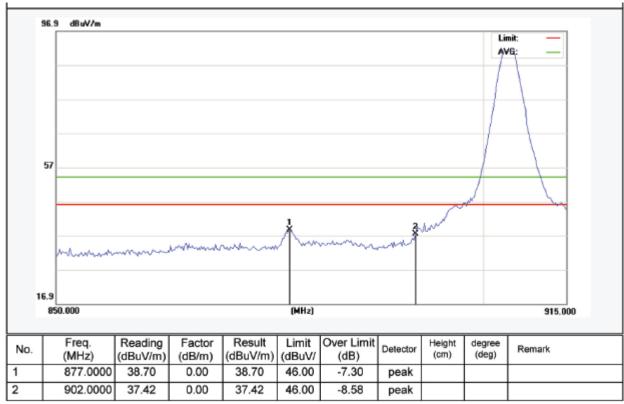
CH Low







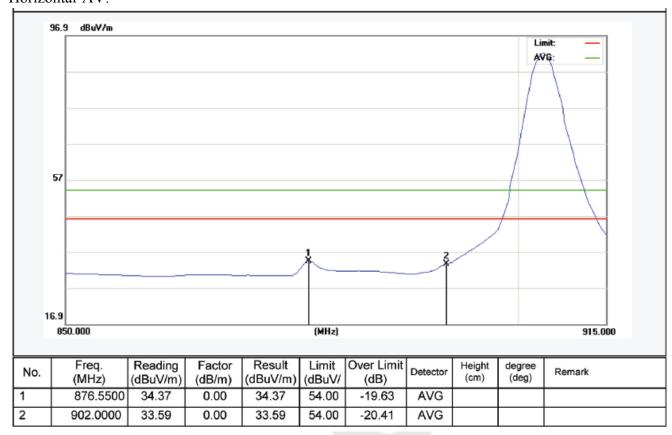
Horizontal-PEAK:





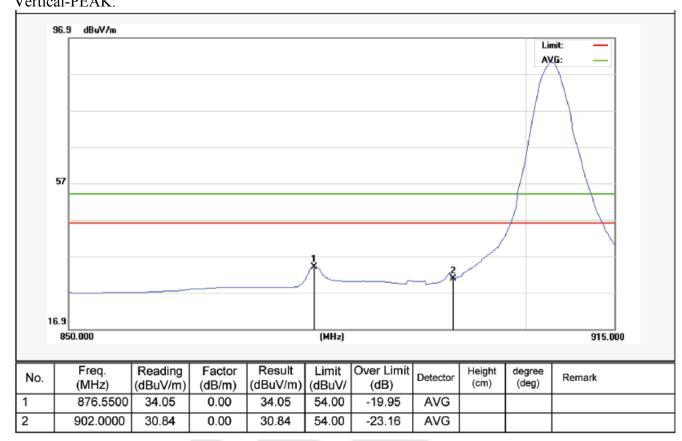
908MHz

Horizontal-AV:



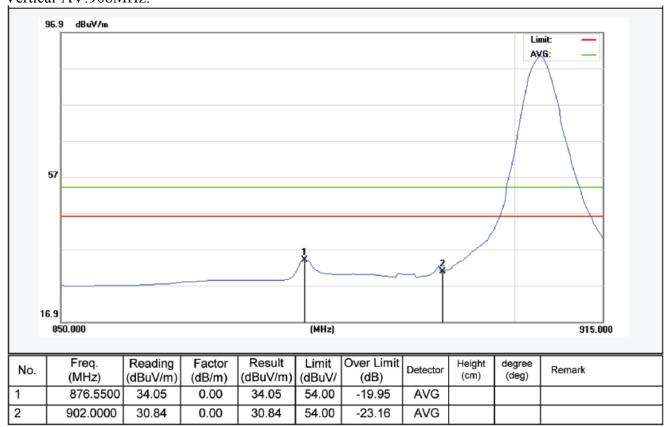


908MHz: Vertical-PEAK:

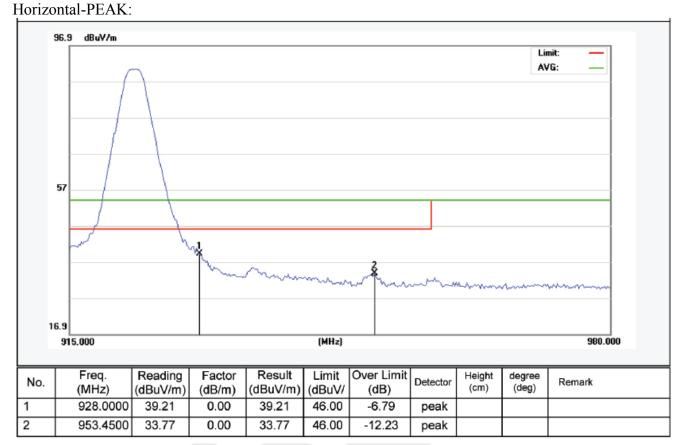




Vertical-AV:908MHz:

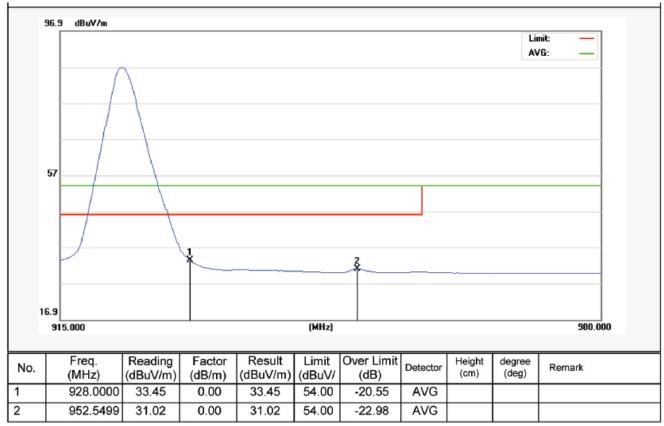






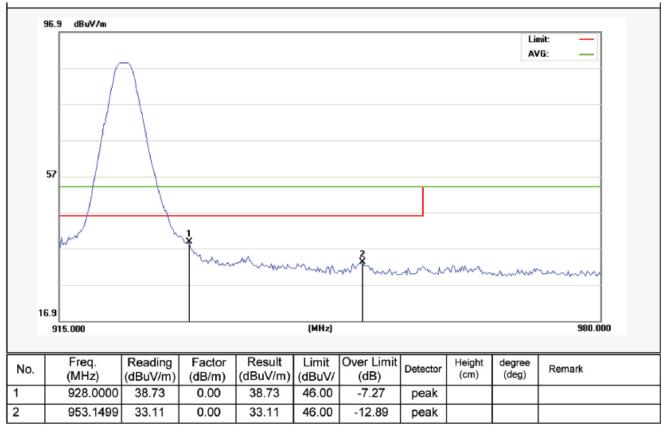


Horizontal-AV:



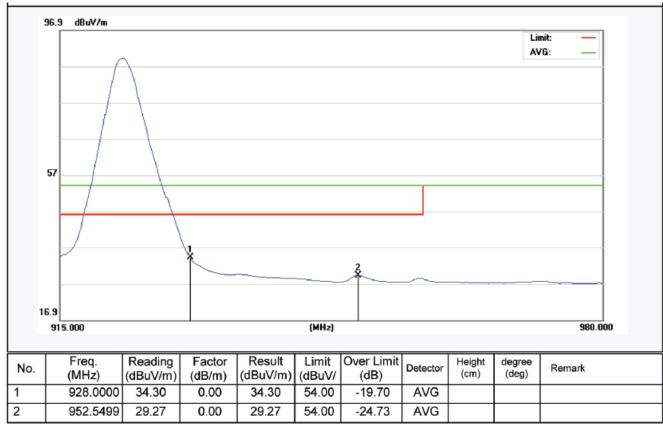


Vertical-PEAK:





Vertical-AV:





4.5. Peak Power Spectral Density

a. Limit

- 1. For direct sequence systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.
- 2. The direct sequence operating of the hybrid system, with the frequency hopping operation turned off, shall comply with the power density requirements of paragraph (d) of this section.

b. Test Procedure

- 1. Place the EUT on the table and set it in transmitting mode. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 2. Set the spectrum analyzer as RBW = 3kHz, VBW = 10kHz, Span = 1.5 times DTS BW, Sweep=500s
- 3. Record the max. reading.
- 4. Repeat the above procedure until the measurements for all frequencies are completed.

c. Test Equipment

Same as the equipment listed in 4.2.

d. Test Setup

See 4.1

e. Test Results

Pass

f. Test Data

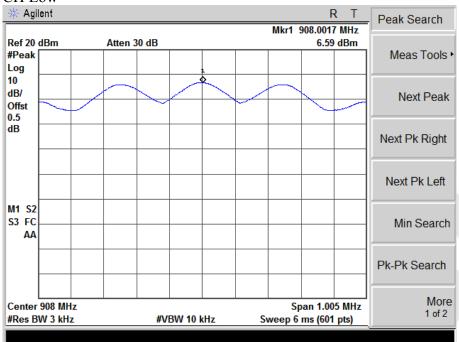
Please refer to the following data.

g. Test Plot See the following pages

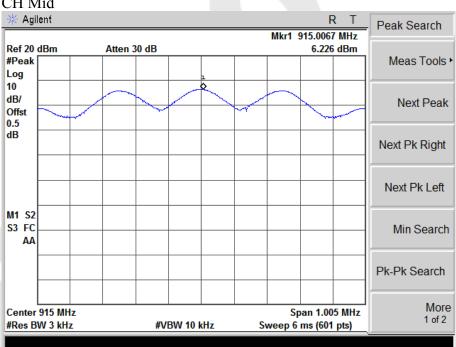
Channel	Frequency (MHz)	PPSD (dBm/3KHz)	Σ PPSD (dBm/3KHz)	Limit (dBm)	Result
Low	908	6.590	-		Pass
Mid	915	6.226	-	8.00	Pass
High	922	6.076	-		Pass



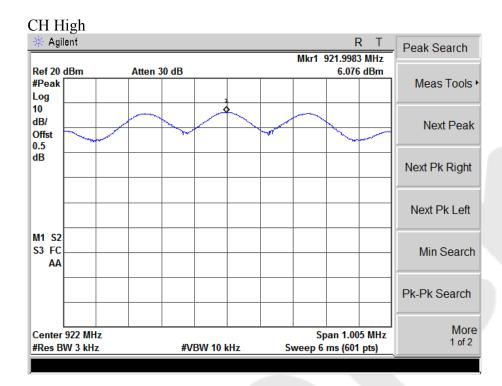




CH Mid









4.6. Radiated Emissions

4.6.1.1. Test Limits (< 30 MHZ)

Frequency	Field Strength	Measurement Distance	
(MHz)	(microvolts/meter)	(meter)	
0.009-0.490	2400/F(kHz)	300	
0.490-1.705	24000/F(kHz)	30	
1.705-30.0	30	30	

4.6.1.2. Test Limits (≥ 30 MHZ)

FIELD STRENGTH	FIELD STRENGTH	S15.209	
of Fundamental:	of Harmonics	30 - 88 MHz	40 dBuV/m
@3M			
902-928 MHZ		88 - 216 MHz	43.5
2.4-2.4835 GHz		216 - 960 MHz	46
94 dBμV/m @3m	54 dBμV/m @3m	ABOVE 960 MHz	54dBuV/m

In any 100 kHz 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 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

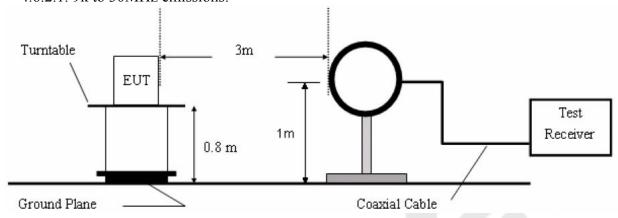
Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analysis	Agilent	E4407B	US39390582	Apr. 17, 2015	1 Year
2.	Preamplifier	Instruments corporation	EMC01183 0	980100	Apr. 17, 2015	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESPI	101604	Apr. 17, 2015	1 Year
4.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Apr. 20, 2015	1 Year
5.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Apr. 20, 2015	1 Year
6.	Pre-amplifier	SONOMA	310N	186860	Apr. 17, 2015	1 Year
7.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A

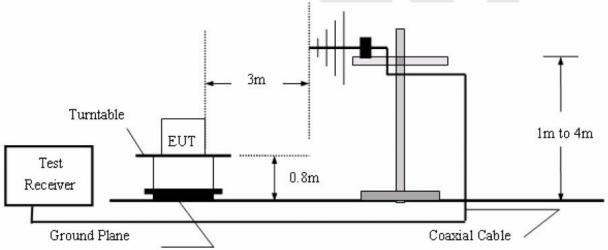


4.6.2. Test Configuration:

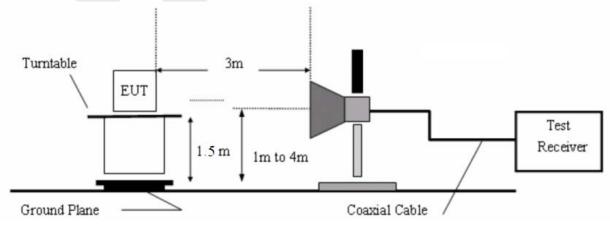
4.6.2.1. 9k to 30MHz emissions:



4.6.2.2. 30M to 1G emissions:



4.6.2.3. 1G to 40G emissions:





4.6.3. Test Procedure

The EUT is placed on a turn table which is 0.8 meter high above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

Measurements are made on 9KHz to 30MHz and 30MHz to 26GHz range with the transmitter set to the lowest, middle, and highest channels.

All readings from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. All reading are above 1GHz, peak & average values with a resolution bandwidth of 1MHz.

The EUT is tested in 9*6*6 Chamber.

The test results are listed in Section 4.6.4.

4.6.4. Test Results

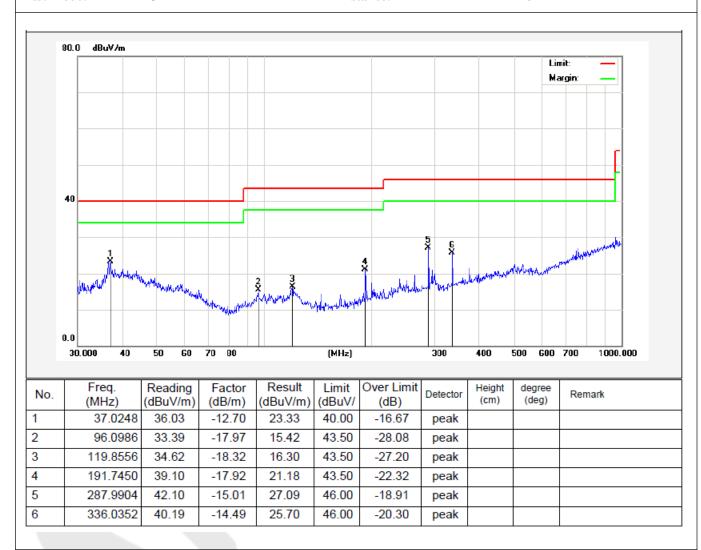
Please refer to the following pages.



Standard: (RE)FCC PART15 C _3m Power Source: DC 5V Via USB Port

Test item: Radiation Test Temp.(C)/Hum.(%RH): 24.3(C)/55%RH

Test Mode: On Distance: 3m



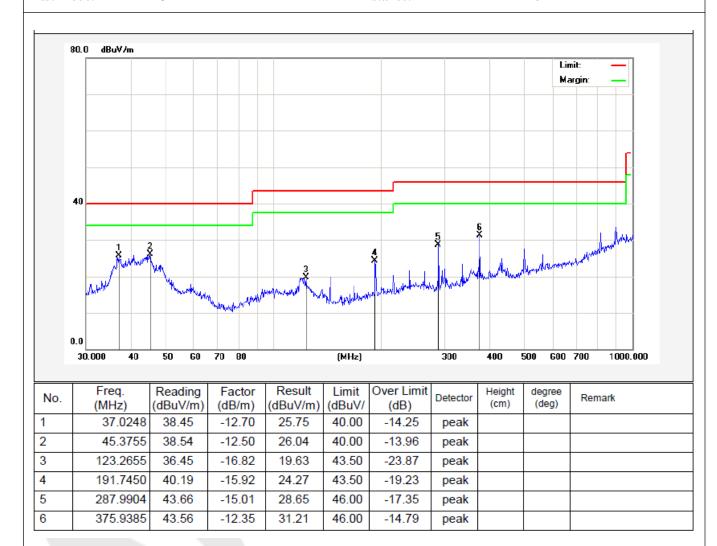


Job No.: 011505565I Polarization: Vertical

Standard: (RE)FCC PART15 C _3m Power Source: DC 5V Via USB Port

Test item: Radiation Test Temp.(C)/Hum.(%RH): 24.3(C)/55%RH

Test Mode: On Distance: 3m

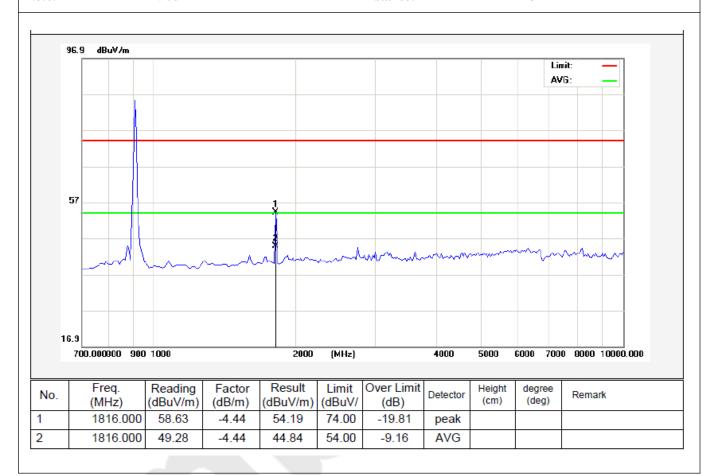




Standard: (RE)FCC PART15 C _3m Power Source: DC 5V Via USB Port

Test item: Radiation Test Temp.(C)/Hum.(%RH): 24.3(C)/55%RH

Note: 908MHz Distance: 3m



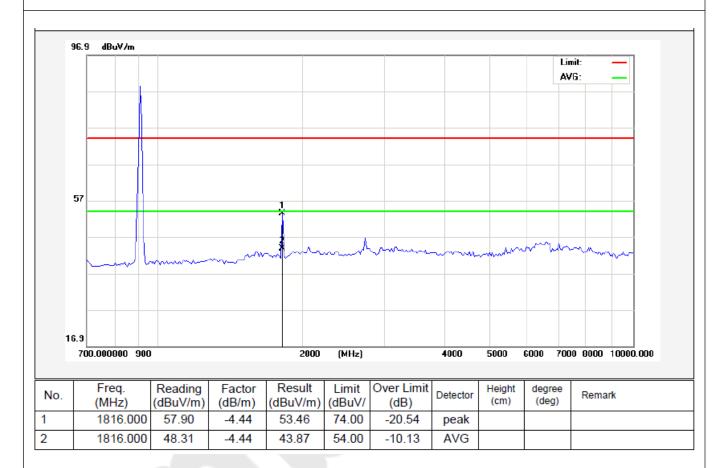


Job No.: 011505565I Polarization: Vertical

Standard: (RE)FCC PART15 C _3m Power Source: DC 5V Via USB Port

Test item: Radiation Test Temp.(C)/Hum.(%RH): 24.3(C)/55%RH

Note: 908MHz Distance: 3m

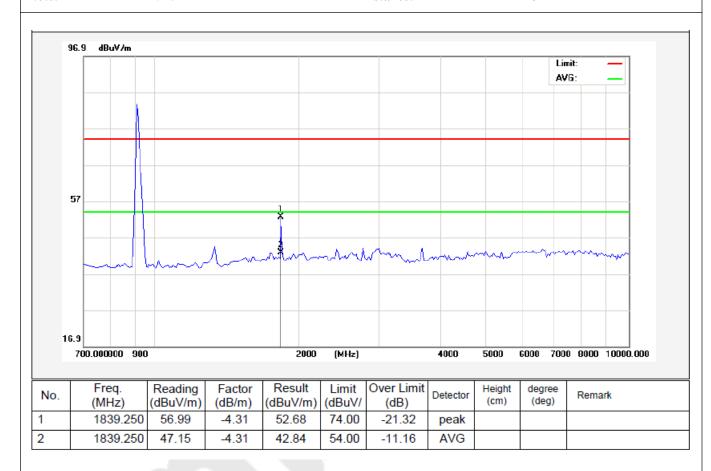




Standard: (RE)FCC PART15 C _3m Power Source: DC 5V Via USB Port

Test item: Radiation Test Temp.(C)/Hum.(%RH): 24.3(C)/55%RH

Note: 915MHz Distance: 3m



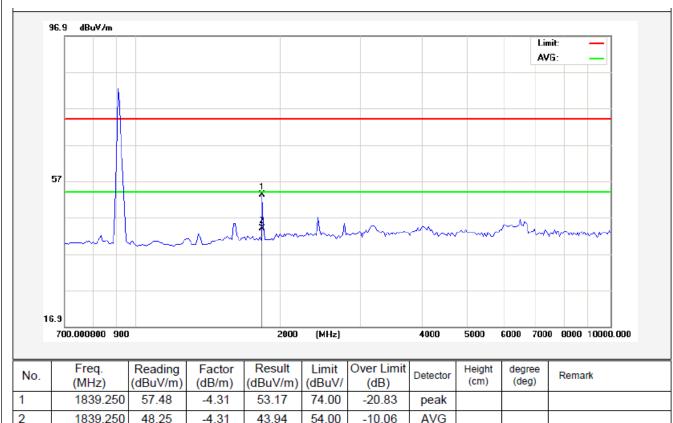


Job No.: **Polarization:** Vertical 011505565I

Standard: (RE)FCC PART15 C _3m **Power Source:** DC 5V Via USB Port

Test item: **Radiation Test** Temp.(C)/Hum.(%RH): 24.3(C)/55%RH

Note: 915MHz **Distance:** 3m

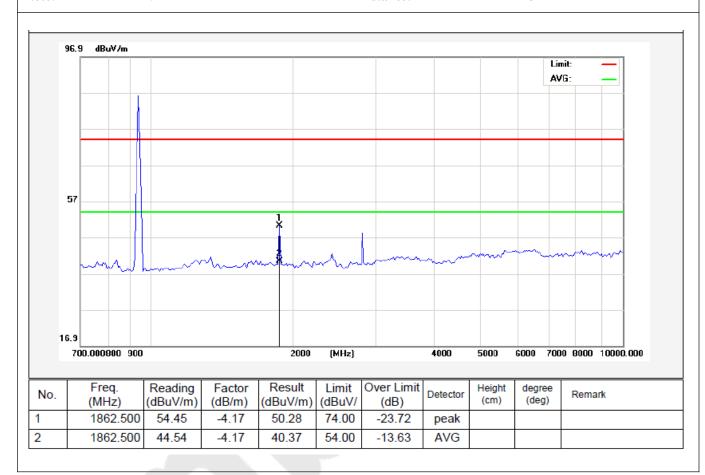




Standard: (RE)FCC PART15 C _3m Power Source: DC 5V Via USB Port

Test item: Radiation Test Temp.(C)/Hum.(%RH): 24.3(C)/55%RH

Note: 922MHz Distance: 3m



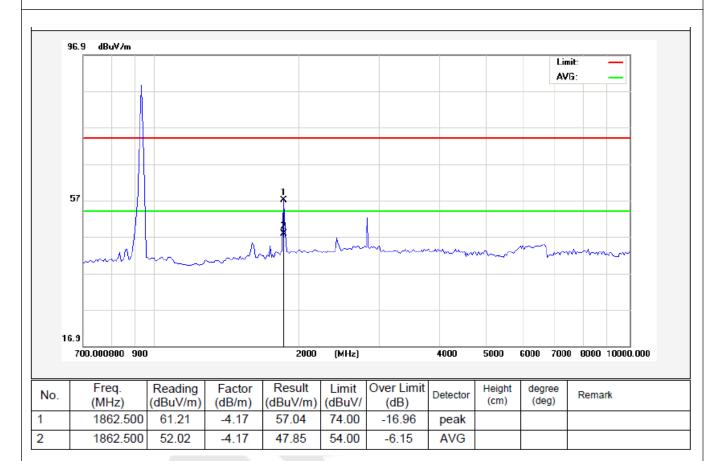


Job No.: 011505565I Polarization: Vertical

Standard: (RE)FCC PART15 C _3m Power Source: DC 5V Via USB Port

Test item: Radiation Test Temp.(C)/Hum.(%RH): 24.3(C)/55%RH

Note: 922MHz Distance: 3m



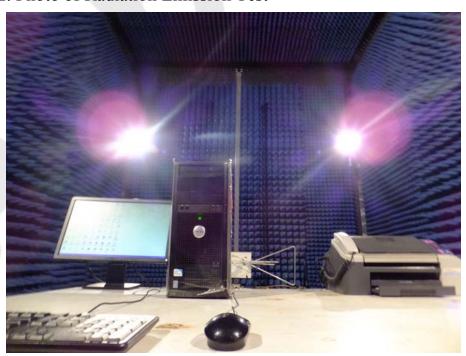


5. PHOTOGRAPH





5.2. Photo of Radiation Emission Test









APPENDIX I (EXTERNAL PHOTOS)

Figure 1 The EUT-Overall View



Figure 2
The Overall View of Antenna 1 (Model No.: ANT-900MS/MR)





Figure 3
The Overall View of Antenna 2 (Model No.: ANT-WP915SMA-Y)



Figure 4
The Overall View of Antenna 3 (Model No.: ANT-SS/SR900)





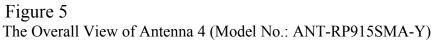
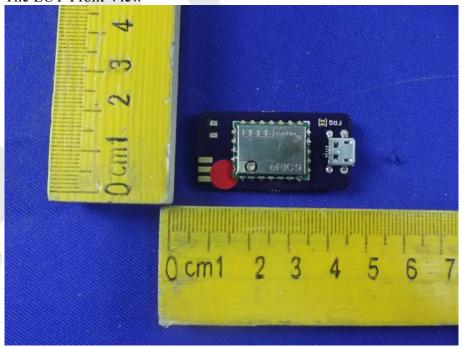
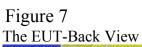




Figure 6
The EUT-Front View











$\textbf{APPENDIX} \quad \text{$ \coprod$ (INTERNAL PHOTOS)$ }$

Figure 8
The EUT-Inside View

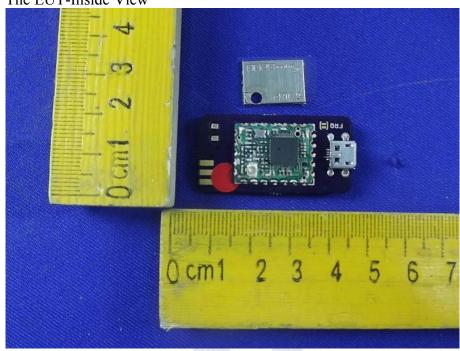


Figure 10 PCB of the EUT-Front View







