

FCC TEST REPORT for Shenzhen Lenkewi Technology Co., Ltd.

Smart VR Instruction Model No.: G200, G300, G400, G500, G600, G700, G800, G900

Prepared for : Shenzhen Lenkewi Technology Co., Ltd.

Address : 3rd Floor, 1st Block, No.88 Fuqian Road, Guanlan Street, New

Longhua Area, Shenzhen, China

Prepared By : Shenzhen Anbotek Compliance Laboratory Limited

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Report Number : R011608398Y

Date of Test : Aug. 12~Nov. 30, 2016

Date of Report : Nov. 30, 2016



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TEST REPORT

Applicant : Shenzhen Lenkewi Technology Co., Ltd.

Manufacturer : Shenzhen Lenkewi Technology Co., Ltd.

EUT : Smart VR Instruction

Model No. : G200, G300, G400, G500, G600, G700, G800, G900

Serial No. : N.A.

Trade Mark : N.A.

Rating : DC 5V, 2000mA Via Adapter (Input: AC 100-240V, 50/60Hz, 0.5A,

Output: DC 5V, 2000mA)

DC 3.7V, 2500mAh Via Battery *2

Measurement Procedure Used:

FCC Part15 Subpart C 2016, 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:	Aug. 12~Nov. 30, 2016
	Janon Wan
Prepared by:	
	(Tested Engineer / Baron Wen)
D	Dolm mo
Reviewer:	
	(Project Manager / Dolly Mo)
Approved & Authorized Signer :	Jon Chen
	(Manager / Tom Chen)



1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : Smart VR Instruction

Model Number : G200, G300, G400, G500, G600, G700, G800, G900

(Note: All samples are the same except the model number and

colour, so we prepare "G200" for test only.)

Test Power Supply: AC 120V, 60Hz for adapter/

AC 240V, 60Hz for adapter

Frequency : WiFi: 2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20))

BT4.0: 2402~2480MHz

Modulation : WiFi: 802.11b CCK; 802.11g OFDM; 802.11n MCS

BT4.0: GFSK

Channels : WiFi: 11 For (802.11b/802.11g/802.11n(HT20))

BT4.0: 40

Antenna Type : Integrated Antenna

Antenna Gain : 2 dBi (WiFi & BT4.0)

Applicant : Shenzhen Lenkewi Technology Co., Ltd.

Address : 3rd Floor, 1st Block, No.88 Fugian Road, Guanlan Street, New

Longhua Area, Shenzhen, China

Manufacturer : Shenzhen Lenkewi Technology Co., Ltd.

Address : 3rd Floor, 1st Block, No.88 Fuqian Road, Guanlan Street, New

Longhua Area, Shenzhen, China

Factory : Shenzhen Lenkewi Technology Co., Ltd.

Address : 3rd Floor, 1st Block, No.88 Fugian Road, Guanlan Street, New

Longhua Area, Shenzhen, China

Date of receipt : Aug. 12, 2016

Date of Test : Aug. 12~Nov. 30, 2016

Note : This report is for BT4.0 module.



1.2. Auxiliary Equipment Used during Test

Adapter : Manufacturer: Samsung

M/N: ETA-U90CBC S/N: RT6FB17ZS/B-E

Input: AC 100-240V, 50-60Hz, 0.35A

Output: DC 5V, 2A

1.3. Description of Test Facility

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

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 06, 2016.

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, June 13, 2016.

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



1.5. List of channels

Channel	Freq. (MHz)								
00	2402	09	2420	18	2438	27	2456	36	2474
01	2404	10	2422	19	2440	28	2458	37	2476
02	2406	11	2424	20	2442	29	2460	38	2478
03	2408	12	2426	21	2444	30	2462	39	2480
04	2410	13	2428	22	2446	31	2464		
05	2412	14	2430	23	2448	32	2466		
05	2414	15	2432	24	2450	33	2468		
07	2416	16	2434	25	2452	34	2470		
08	2418	17	2436	26	2454	35	2472		



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)	Peak 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	-	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 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.

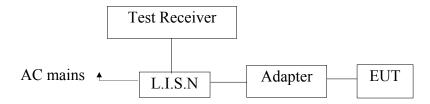
Channel Low(2402MHz), Channel Middle(2440MHz) and Channel High(2480MHz) are chosen for the final testing.



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	s 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 (Charging) 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	Jul. 19, 2016	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Jun. 17, 2016	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Jun. 17, 2016	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.



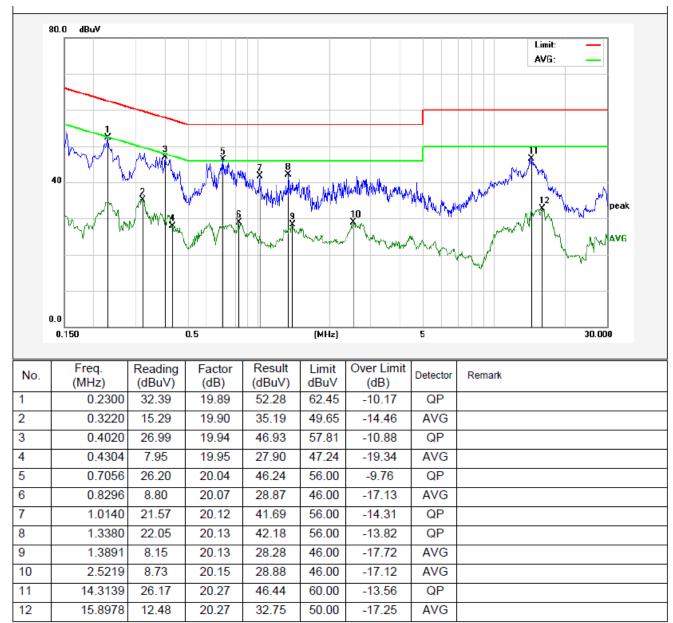
Test Site: 1# Shielded Room

Operating Condition: Charging

Test Specification: AC 120V, 60Hz for adapter

Comment: Live Line

Tem.:25°C Hum.:50%



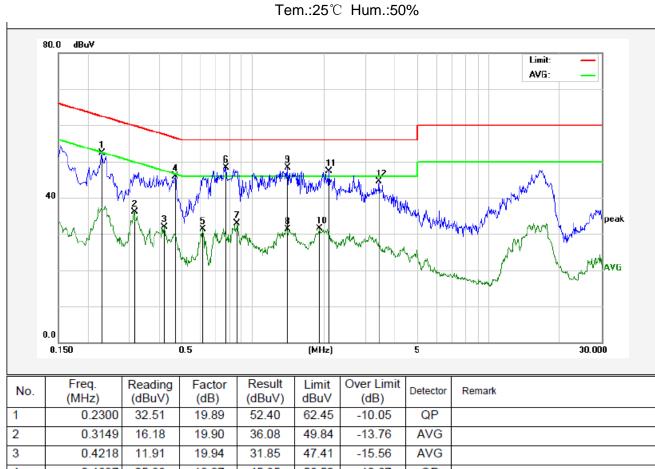


Test Site: 1# Shielded Room

Operating Condition: Charging

Test Specification: AC 120V, 60Hz for adapter

Comment: Neutral Line



No.	Freq.	Reading	Factor	Result	Limit	Over Limit	Detector	Remark
INO.	(MHz)	(dBuV)	(dB)	(dBuV)	dBuV	(dB)	Detector	Remark
1	0.2300	32.51	19.89	52.40	62.45	-10.05	QP	
2	0.3149	16.18	19.90	36.08	49.84	-13.76	AVG	
3	0.4218	11.91	19.94	31.85	47.41	-15.56	AVG	
4	0.4697	25.88	19.97	45.85	56.52	-10.67	QP	
5	0.6139	11.34	20.01	31.35	46.00	-14.65	AVG	
6	0.7740	28.33	20.06	48.39	56.00	-7.61	QP	
7	0.8578	12.76	20.08	32.84	46.00	-13.16	AVG	
8	1.4013	11.18	20.13	31.31	46.00	-14.69	AVG	
9	1.4053	28.12	20.13	48.25	56.00	-7.75	QP	
10	1.9213	11.31	20.14	31.45	46.00	-14.55	AVG	
11	2.1018	27.21	20.14	47.35	56.00	-8.65	QP	
12	3.4260	24.42	20.17	44.59	56.00	-11.41	QP	



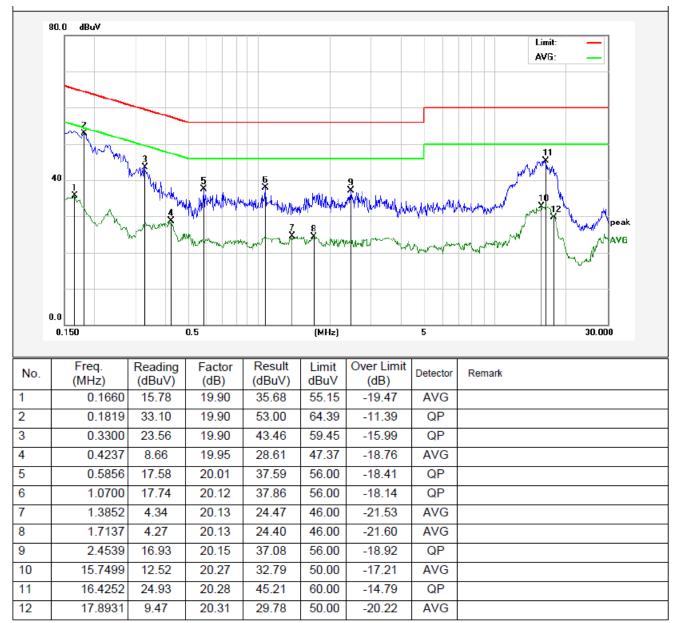
Test Site: 1# Shielded Room

Operating Condition: Charging

Test Specification: AC 240V, 60Hz for adapter

Comment: Live Line

Tem.:25°C Hum.:50%





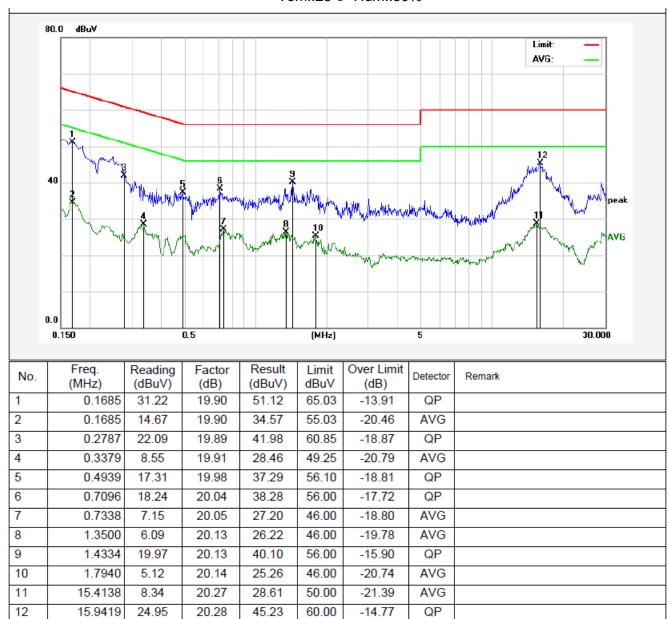
Test Site: 1# Shielded Room

Operating Condition: Charging

Test Specification: AC 240V, 60Hz for adapter

Comment: Neutral Line

Tem.:25°C Hum.:50%





4. FCC Part 15.247 Requirements for DSSS & OFDM Modulation

4.1 Test Setup



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.



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	Jul. 12, 2016	1 Year
2.	Preamplifier	Instruments corporation	EMC01183 0	980100	Jun. 17, 2016	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESPI	101604	Jun. 17, 2016	1 Year
4.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	May 06, 2016	1 Year
5.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	May 06, 2016	1 Year
6.	Pre-amplifier	SONOMA	310N	186860	Jun. 17, 2016	1 Year
7.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
8	Power Sensor	Agilent	KFSW150 502	15I00041SN0 45	Jun. 17, 2016	1 Year
9	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Jun. 17, 2016	1 Year
10	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Jun. 17, 2016	1 Year
11	Signal Generator	Agilent	E4421B	MY41000743	Jun. 17, 2016	1 Year
12	DC Power supply	IV	IV-8080	YQSB0096	Jun. 17, 2016	1 Year
13	TEMP&HUMI 3 PROGRAMMAB Bell Group LE CHAMBER		BE-THK-1 50M8	SE-0137	Jun. 17, 2016	1 Year

e. Test Results

Pass.

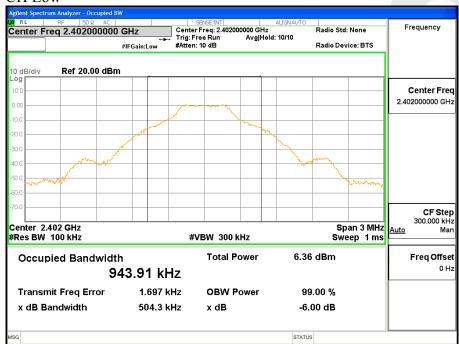


f. Test Data

Channel	Frequency	Bandwidth	Limit	Results
Chamici	(MHz)	(kHz)	(kHz)	Results
Low	2402	504.3		Pass
Mid	2440	508.1	>500	Pass
High	2480	502.4		Pass

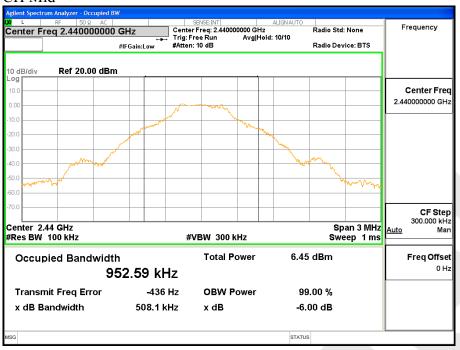
Test Plots See the following page.

CH Low





CH Mid









4.3. Maximum Peak output power test

a. Limit

The maximum peak 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



c. Test Procedure

This test was according the kDB 558074 D01 DTS Meas Guidance v03r05 9.1.1

- 1. This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the DTS bandwidth.
- 2. Set the RBW ≥DTS bandwidth.
- 3. Set the VBW≥3*RBW.
- 4. Set the span $\geq 3*RBW$.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use peak marker function to determine the peak amplitude level.

d. Test Equipment

Same as the equipment listed in 4.2.

e. Test Results

Pass.



f. Test Data

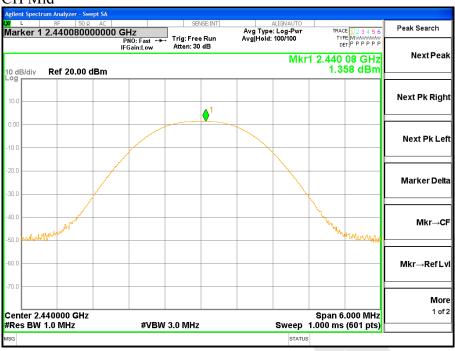
Channel	Frequency	Maximum transmit power	Li	mit	Result
Chamilei	(MHz)	(dBm)	(dBm)	(watts)	Resuit
Low	2402	0.983			Pass
Mid	2440	1.358	30	1	Pass
High	2480	1.963			Pass

















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) Set RBW=100KHz, VBW=300KHz with a convenient frequency span including 100kHz bandwidth from band edge, check the emission of EUT. If pass then set Spectrum Analyzer as below:

For below 1GHz:

The resolution bandwidth and video bandwidth of test receiver/ spectrum analyzer is 120kHz.

Detector: Quasi-Peak

For above 1GHz Peak measurement:

The resolution bandwidth of test receiver/ spectrum analyzer is 1MHz and video bandwidth is 3MHz.

Detector: Peak

For above 1GHz average measurement:

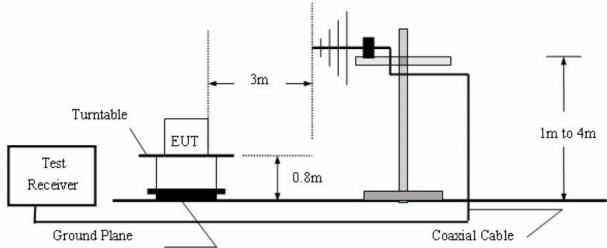
The resolution bandwidth of test receiver/ spectrum analyzer is 1MHz and the video bandwidth is 1kHz.

Detector: Peak

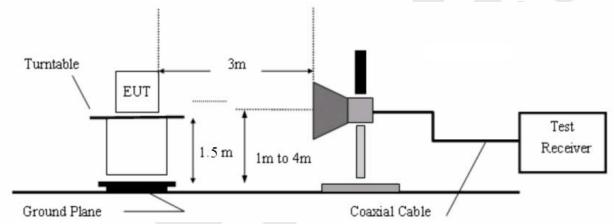
5) Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are measured.



30M to 1G emissions:



1G to 40G emissions:



c. Test Equipment

Same as the equipment listed in 4.2.

d. Test Results

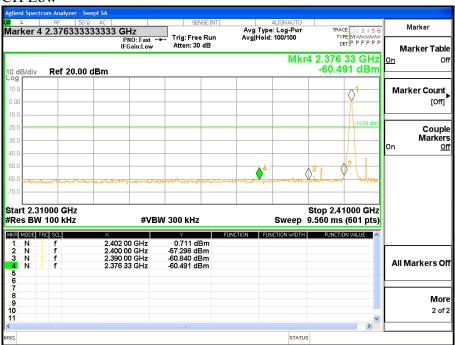
Pass.

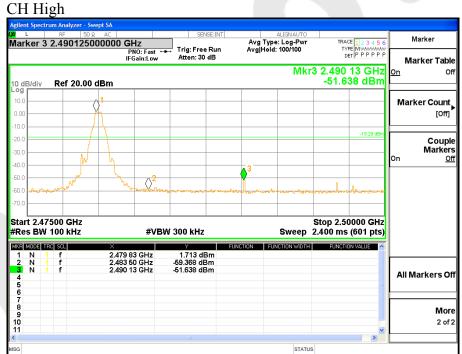
e. Test Plots

See the following page.



CH Low

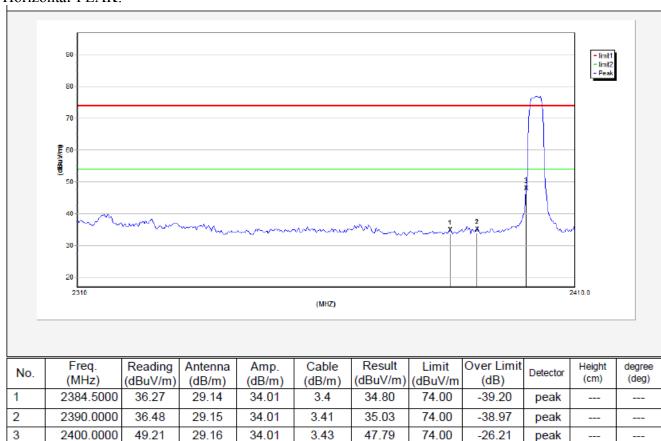






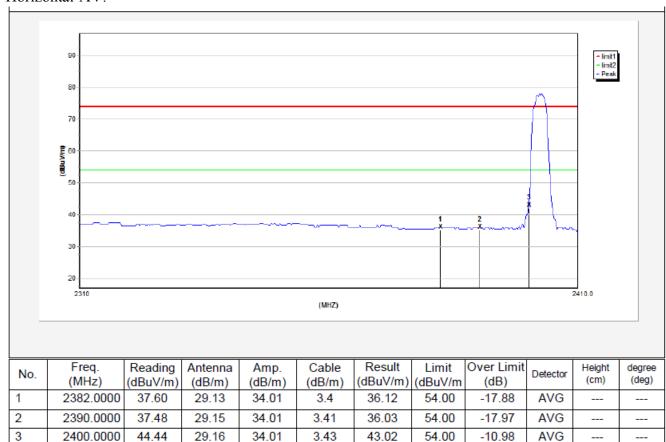
2402MHz

Horizontal-PEAK:



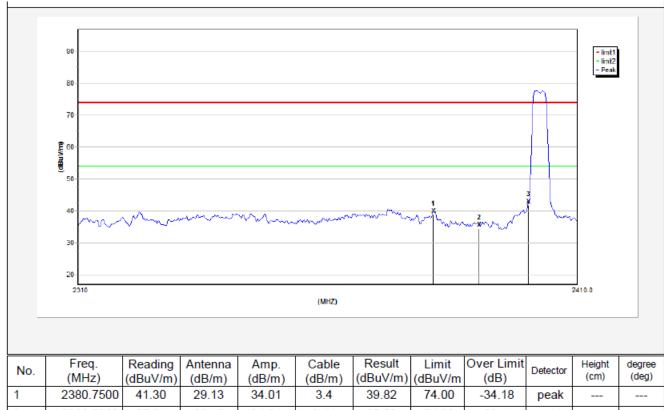


Horizontal-AV:



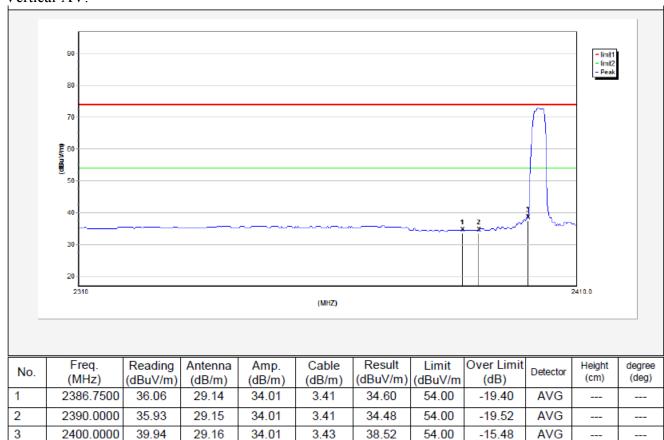


2402MHz Vertical-PEAK:



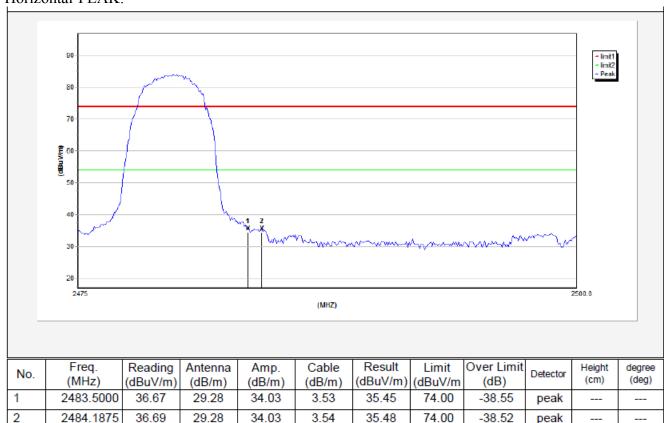


Vertical-AV:



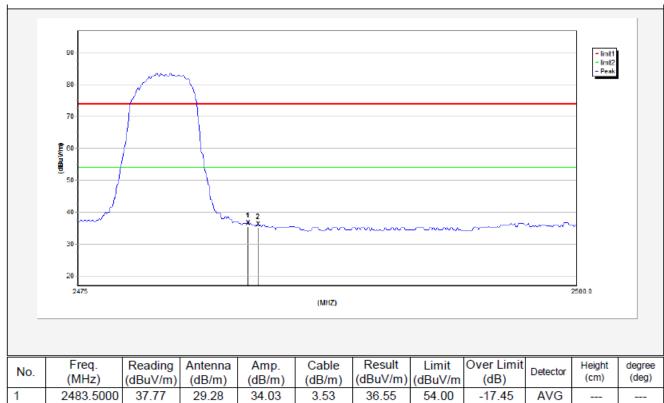


2480MHz Horizontal-PEAK:





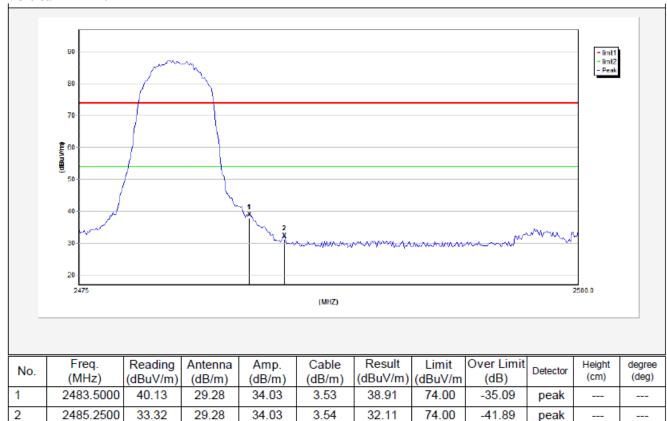
Horizontal-AV:



No.	Freq. (MHz)	Reading (dBuV/m)		Amp. (dB/m)	Cable (dB/m)	Result (dBuV/m)		Over Limit (dB)	Detector	Height (cm)	degree (deg)
1	2483.5000	37.77	29.28	34.03	3.53	36.55	54.00	-17.45	AVG		
2	2484.0000	37.27	29.28	34.03	3.54	36.06	54.00	-17.94	AVG		

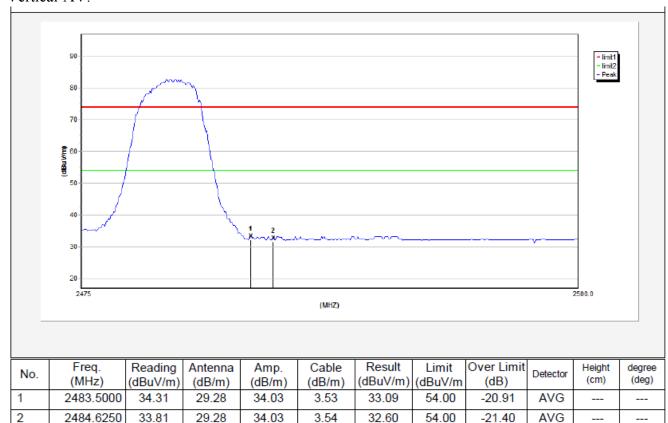


2480MHz Vertical-PEAK:





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 = 1.5xDTS BW
- 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 3.1

e. Test Results

Pass

f. Test Data

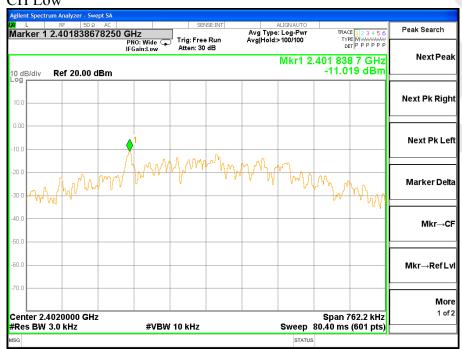
Please refer to the following data.

g. Test Plot See the following pages



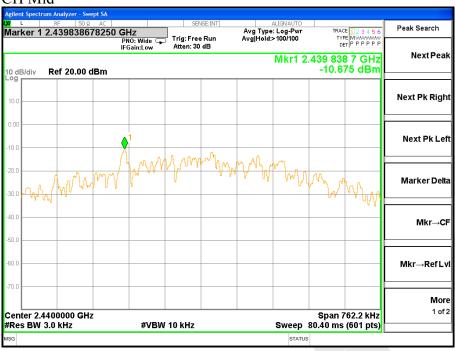
Channel	Frequency	PPSD	\sum PPSD	Limit	Result
Chamici	(MHz)	(dBm/3KHz)	(dBm/3KHz)	(dBm)	Result
Low	2402	-11.019	-	8.00	Pass
Mid	2440	-10.675	-	8.00	Pass
High	2480	-10.009	-	8.00	Pass

CH Low









CH High





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)).

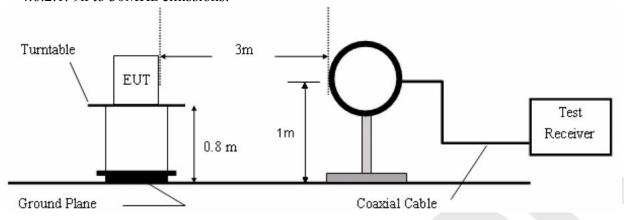
Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analysis	Agilent	E4407B	US39390582	Jul. 12, 2016	1 Year
2.	Preamplifier	Instruments corporation	EMC011830	980100	Jun. 17, 2016	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESPI	101604	Jun. 17, 2016	1 Year
4.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	May 06, 2016	1 Year
5.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	May 06, 2016	1 Year
6.	Pre-amplifier	SONOMA	310N	186860	Jun. 17, 2016	1 Year
7.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
8	Power Sensor	Agilent	KFSW15050 2	15I00041SN045	Jun. 17, 2016	1 Year
9	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Jun. 17, 2016	1 Year
10	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Jun. 17, 2016	1 Year
11	Signal Generator	Agilent	E4421B	MY41000743	Jun. 17, 2016	1 Year
12	DC Power supply	IV	IV-8080	YQSB0096	Jun. 17, 2016	1 Year
13	TEMP&HUMI PROGRAMMABLE CHAMBER	Bell Group	BE-THK-15 0M8	SE-0137	Jun. 17, 2016	1 Year

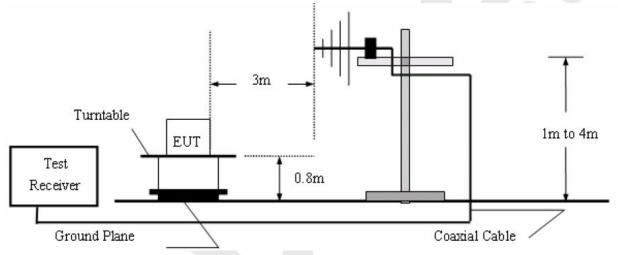


4.6.2. Test Configuration:

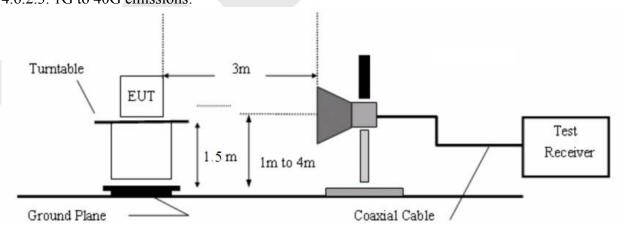
4.6.2.1. 9k to 30MHz emissions:



4.6.2.2. 30M to 1G emissions:



4.6.2.3. 1G to 40G emissions:





4.6.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane. For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane. 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 device is evaluated in xyz orientation.

The test results are listed in Section 4.6.4.

4.6.4. Test Results

PASS.

The EUT was tested on (Charging, BT Mode, WiFi Mode) modes, only the worst data of (WiFi Mode) is attached in the following pages.
Only the worst case (x orientation).

The test results of above 18000MHz are attenuated more than 20dB below the permissible limits, so the results don't record in the report.

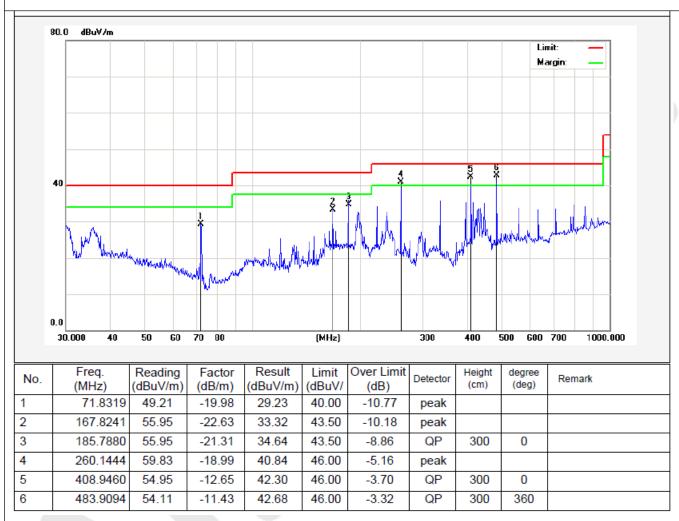


Job No.: 011608398I Polarization: Horizontal

Standard: (RE)FCC PART15 C _3m Power Source: AC 120V, 60Hz for adapter

Test item: Radiation Test Temp.(C)/Hum.(%RH): 24.4(C)/50%RH

Test Mode: WiFi Mode Distance: 3m



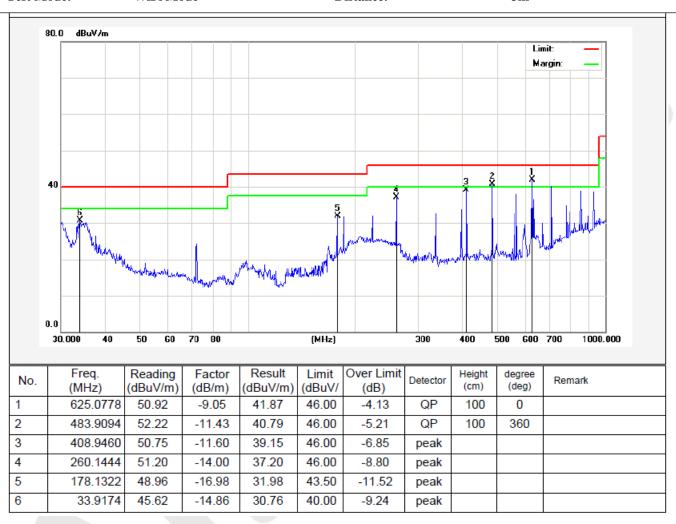


Job No.: 011608398I Polarization: Vertical

Standard: (RE)FCC PART15 C _3m Power Source: AC 120V, 60Hz for adapter

Test item: Radiation Test Temp.(C)/Hum.(%RH): 24.4(C)/50%RH

Test Mode: WiFi Mode Distance: 3m



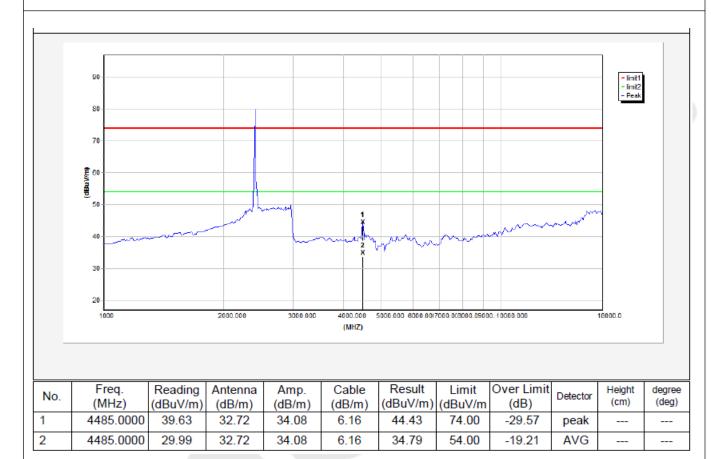


Job No.: 011608398I Polarization: Horizontal

Standard: (RE)FCC PART15 C _3m Power Source: AC 120V, 60Hz for adapter

Test item: Radiation Test Temp.(C)/Hum.(%RH): 24.4(C)/50%RH

Note: 2402MHz Distance: 3m



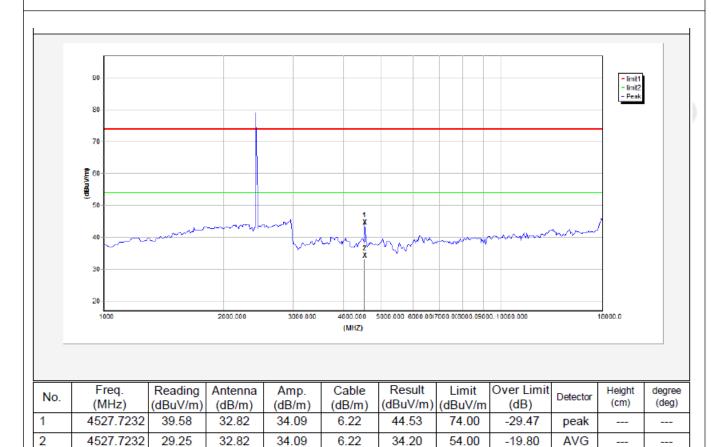


Job No.: 011608398I Polarization: Vertical

Standard: (RE)FCC PART15 C _3m Power Source: AC 120V, 60Hz for adapter

Test item: Radiation Test Temp.(C)/Hum.(%RH): 24.4(C)/50%RH

Note: 2402MHz Distance: 3m



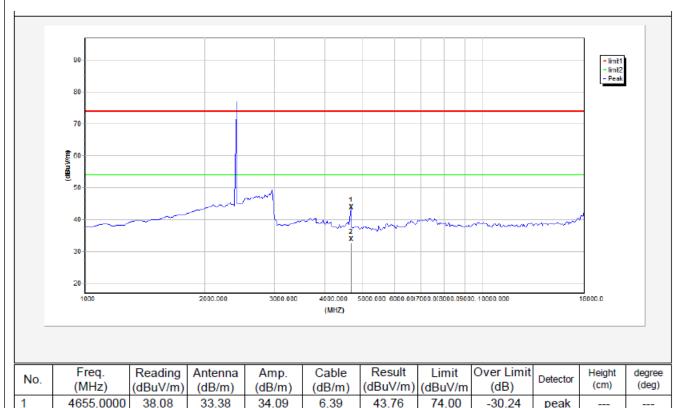


Job No.: 011608398I **Polarization:** Horizontal

Standard: (RE)FCC PART15 C _3m **Power Source:** AC 120V, 60Hz for adapter

Test item: **Radiation Test** Temp.(C)/Hum.(%RH): 24.4(C)/50%RH

Note: 2440MHz **Distance:** 3m



No.	Freq. (MHz)	Reading (dBuV/m)		Amp. (dB/m)	Cable (dB/m)	Result (dBuV/m)		Over Limit (dB)	Detector	Height (cm)	degree (deg)
1	4655.0000	38.08	33.38	34.09	6.39	43.76	74.00	-30.24	peak		
2	4655.0000	28.11	33.38	34.09	6.39	33.79	54.00	-20.21	AVG		

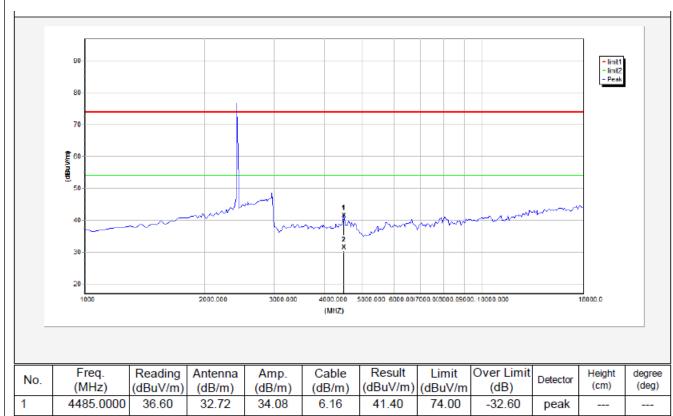


Job No.: 011608398I **Polarization:** Vertical

Standard: (RE)FCC PART15 C _3m **Power Source:** AC 120V, 60Hz for adapter

Test item: **Radiation Test** Temp.(C)/Hum.(%RH): 24.4(C)/50%RH

Note: 2440MHz **Distance:** 3m



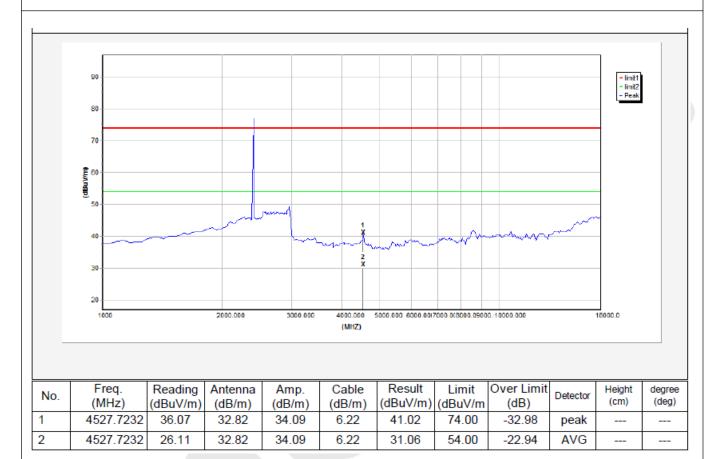


Job No.: 011608398I Polarization: Horizontal

Standard: (RE)FCC PART15 C _3m Power Source: AC 120V, 60Hz for adapter

Test item: Radiation Test Temp.(C)/Hum.(%RH): 24.4(C)/50%RH

Note: 2480MHz Distance: 3m



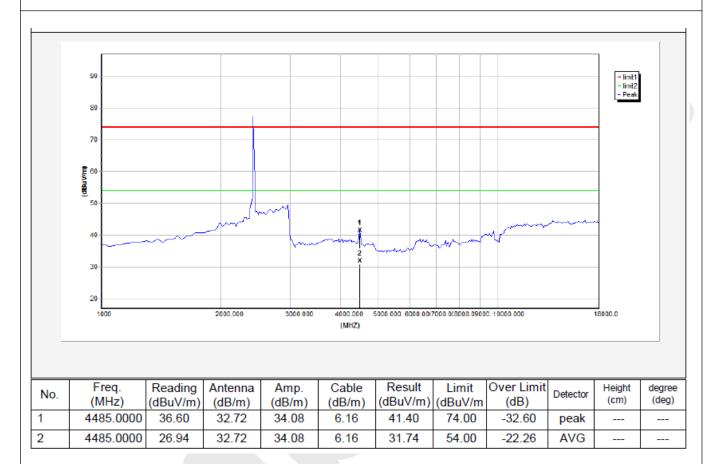


Job No.: 011608398I Polarization: Vertical

Standard: (RE)FCC PART15 C _3m Power Source: AC 120V, 60Hz for adapter

Test item: Radiation Test Temp.(C)/Hum.(%RH): 24.4(C)/50%RH

Note: 2480MHz Distance: 3m





5. ANTENNA APPLICATION

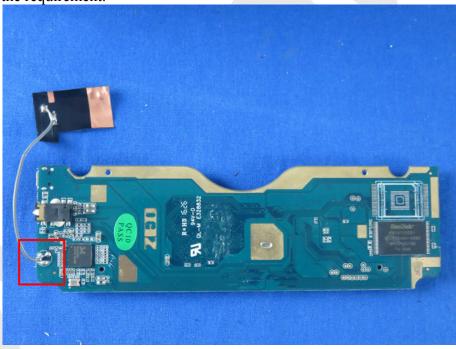
5.1. Antenna requirement

The EUT'S antenna is met the requirement of FCC part 15C section 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

5.2. Result

The EUT's antenna used a Integrated antenna which is permanently attached, The antenna's gain is 2dBi and meets the requirement.



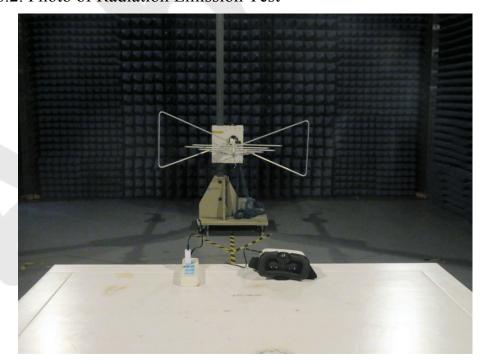


6. PHOTOGRAPH

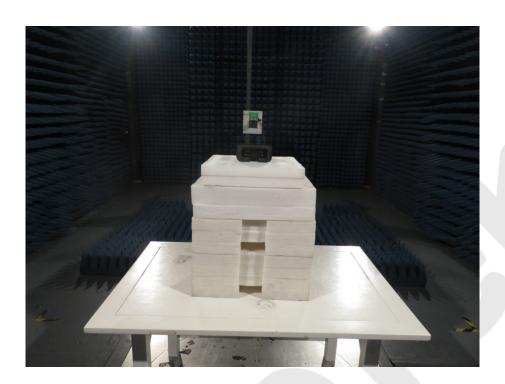
6.1. Photo of Conducted Emission Measurement



6.2. Photo of Radiation Emission Test









APPENDIX I (EXTERNAL PHOTOS)





















APPENDIX II (INTERNAL PHOTOS)

