FCC TEST REPORT

47 CFR FCC Part 15 Subpart C 12.249

Compiled by

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Date of issue...... Aug 20, 2013

Representative Laboratory Name .: Shenzhen Sinco Testing Technology Co., Ltd.

Address 4F, Block B, Famous Industry Products Center Baoyuan Rd.,

Xixiang, Baoan, Shenzhen, China

Testing Laboratory Name Bontek Compliance Testing Laboratory Ltd

Road, Nanshan, Shenzhen, China

Applicant's name...... Dura Gold Ltd.

Hom, Kowloon, Hongkong

Test specification:

Standard 47 CFR FCC Part 15 Subpart C - Intentional Radiators

ANSI C63.10: 2009

TRF Originator...... Shenzhen Sinco Testing Technology Co., Ltd.

Master TRF...... Dated 2012-06

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Test item description Wireless mouse receiver

Trade Mark /

Manufacturer Shenzhen XinBoYing Technology Co.,Ltd.

Listed Models /

Operation Frequency...... From 2402MHz to 2480MHz

Modulation Type GFSK

Result...... Positive

TEST REPORT

Test Report No. :	SKW1307017E	Aug 20, 2013
rest Report No	3KW1307017L	Date of issue

Equipment under Test : Wireless mouse receiver

Model /Type : BY-WQ02,WCM-24/1542,CCM-12/5886,CBWM-001

Listed Models : /

Applicant : Dura Gold Ltd.

Address : Unit 1313, 13/F Peninsula Square, 18 Sung On St., Hung

Hom, Kowloon, Hongkong

Manufacturer Shenzhen XinBoYing Technology Co.,Ltd.

Address : 4 Floor, Building 46 xitian the Second Industrial

Park, Shenzhen City China

Test Result according to the standards on page 4:	Positive
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Contents

SUMMARY	<u></u>
General Remarks	
Equipment Under Test	
EUT operation mode	
Related Submittal(s) / Grant (s)	
Modifications Configuration of Tested System	
NOTE	
TEST ENVIRONMENT	
Address of the test laboratory	
Test Facility	
Environmental conditions	
Statement of the measurement uncertainty	
Equipments Used during the Test	
TEST CONDITIONS AND RESULTS	<u></u>
Conducted Emissions Test (Not Applicable)	
Radiated Emission Test	
Out of band emissions	
20dB Bandwidth Measurement	
ANTENNA REQUIREMENT	
TEST SETUP PHOTOS OF THE EUT	

V1.0 Page 4 of 27 Report No.: SKW1307017E

1. TEST STANDARDS

The tests were performed according to following standards:

47 CFR FCC Part 15 Subpart C - Intentional Radiators

<u>ANSI C63.10: 2009</u> – American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in theRange of 9 kHz to 40GHz

V1.0 Page 5 of 27 Report No.: SKW1307017E

2. SUMMARY

2.1. General Remarks

Date of receipt of test sample	:	July 30,2013
Testing commenced on	:	July 30,2013
Testing concluded on	:	Aug 20, 2013

2.2. Equipment Under Test

Power supply system utilised

Power supply voltage	:	0	120V / 60 Hz	0	115V / 60Hz
		0	12 V DC	0	24 V DC
		•	Other (specified in blank bel	ow)	

DC 5.0V from USB

2.3. EUT operation mode

The EUT has been tested under typical operating condition.

2.4. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: 2AAQT-BY-WQ02-D** filing to comply with the FCC Part 15, Subpart C 15.249 Rules.

2.5. Modifications

No modifications were implemented to meet testing criteria.

2.6. Configuration of Tested System

Configuration of Tested System

EUT

2.7. NOTE

1. The EUT is a 2.4GHz car wireless mouse ,The functions of the EUT listed as below:

	Test Standards	Reference Report
Radio	FCC Part 15 Subpart C (Section15.249)	SKW1307017E

V1.0 Page 6 of 27 Report No.: SKW1307017E

3. TEST ENVIRONMENT

3.1. Address of the test laboratory

Bontek Compliance Testing Laboratory Ltd 1/F, Block East H-3, OCT Eastern Ind. Zone, Qiaocheng East Road, Nanshan, Shenzhen, China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 (2003) and CISPR Publication 22.

3.2. Test Facility

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

IC Registration No.: 7631A

The 3m alternate test site of Bontek Compliance Testing Laboratory Ltd EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 7631A on March, 2008.

FCC-Registration No.: 338263

Bontek Compliance Testing Laboratory Ltd EMC Laboratory has been registered 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 338263, March 24, 2008.

CNAS-Lab Code: L3923

Bontek Compliance Testing Laboratory Ltd has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories, Date of Registration: Mar 22, 2012. Valid time is until Mar 21, 2015.

3.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature: 15-35 ° C

Humidity: 30-60 %

Atmospheric pressure: 950-1050mbar

3.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods — Part 4: Uncertainty in EMC Measurements" and is documented in the Bontek Compliance Testing Laboratory Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Bontek Compliance Testing Laboratory Ltd is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	3.40 dB	(1)
Radiated Emission	1~18GHz	3.40 dB	(1)
Conducted Disturbance	0.15~30MHz	2.30 dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.5. Summary of standards and result

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.207(a)	Conduction Emissions	Compliance
§15.109, §15.205(a), §15.209(a), 15.249(a), §15.249(c), §15.35	Radiated Emissions	Compliance
§15.249(d)	Out of Band Emissions	Compliance
§15.215(c)	20 dB Bandwidth	Compliance

NOTE: 1) The detailed test rusult please see section 4.

- 2) The test report merely corresponds to the test sample.
- 3) It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

3.6. Equipments Used during the Test

Radia	Radiated Emissions						
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.		
1	TRILOG Broadband Test-Antenna	SCHWARZBECK	VULB9163	9163-324	2013-4-9		
2	EMI Test Receiver	R&S	ESPI	100097	2012-7-25		
3	Spectrum Analyzer	R&S	FSP	100397	2012-11-2		
4	Broadband preamplifier	SCH WARZBECK	BBV9718	9718-182	2013-4-5		
5	EMI TEST SOFTWARE	R&S	ESK1	N/A	N/A		
6	Horn Antenna	SCHWARZBECK	BBHA9120D	0499	2012-11-27		
7	Loop Antenna	Rohde&Schwarz	HFH2-Z2	100020	2012-11-27		
8	Horn Antenna	SCHWARZBECK	BBHA9170	25841	2012-11-27		
9	EMI TEST SOFTWARE	Audix	E3	N/A	N/A		

20dB Bandwidth & Deactivation Time & Duty Cycle					
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	R&S	ESPI	100097	2012-7-25
2	Spectrum Analyzer	AGILENT	E4407B	MY44210775	2012-7-25

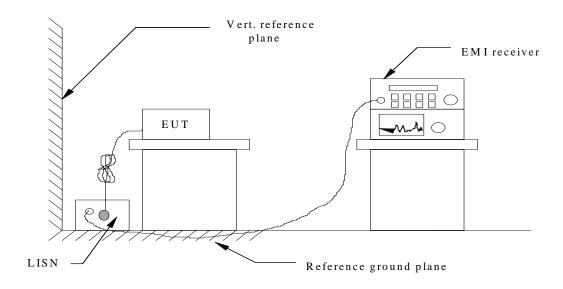
The calibration interval was one year.

V1.0 Page 8 of 27 Report No.: SKW1307017E

4. TEST CONDITIONS AND RESULTS

4.1. Conducted Emissions Test

TEST CONFIGURATION



TEST PROCEDURE

- 1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4-2009.
- 2 Support equipment, if needed, was placed as per ANSI C63.4-2009.
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4-2009.
- 4 The EUT received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5 All support equipments received AC power from a second LISN, if any.
- 6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8 During the above scans, the emissions were maximized by cable manipulation.

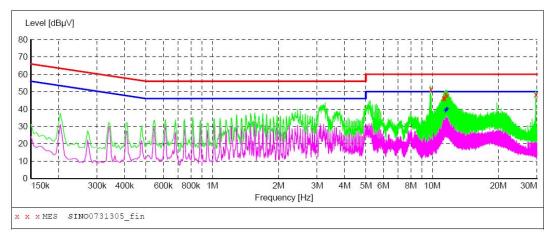
CONDUCTED POWER LINE EMISSION LIMIT

For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following:

Fraguanay	Maximum RF Line Voltage (dBμV)					
Frequency	CLA	SS A	CLASS B			
(IVITIZ)	(MHz) QP Ave		QP	Ave		
0.15 - 0.50	79	66	66-56*	56-46*		
0.50 - 5.00	73	60	56	46		
5.00 - 30.0	73	60	60	50		

TEST RESULTS

SCAN TABLE: "Voltage (9K-30M)FIN"
Short Description: 150K-30M Voltage



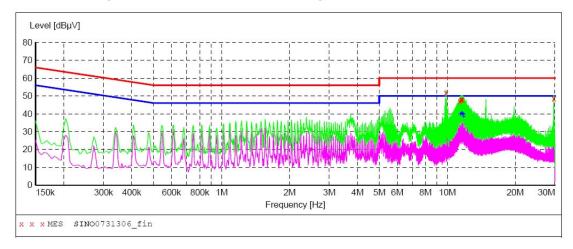
MEASUREMENT RESULT: "SINO0731305_fin"

7/31/2013 9	:28AM						
Frequency MHz		Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
9.874500	51.50	10.4	60	8.5	QP	L1	GND
11.278500	46.10	10.5	60	13.9	QP	L1	GND
11.418000	46.30	10.5	60	13.7	QP	L1	GND
11.548500	48.50	10.5	60	11.5	QP	L1	GND
11.688000	47.80	10.5	60	12.2	QP	L1	GND
29.625000	48.40	11.0	60	11.6	QP	L1	GND

MEASUREMENT RESULT: "SINO0731305 fin2"

7/31/2013 9:2	8AM						
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
11.485500	38.80	10.5	50	11.2	AV	L1	GND
11.553000	39.20	10.5	50	10.8	AV	L1	GND
11.620500	39.80	10.5	50	10.2	AV	L1	GND
11.688000	39.90	10.5	50	10.1	AV	L1	GND
11.755500	40.00	10.5	50	10.0	AV	L1	GND

SCAN TABLE: "Voltage (9K-30M)FIN" Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "SINO0731306_fin"

7/31/2013	9:317	MA						
Frequer N	icy IHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
9.8745	00	51.90	10.4	60	8.1	QP	N	GND
11.3505	00	47.10	10.5	60	12.9	QP	N	GND
11.4855	00	47.90	10.5	60	12.1	QP	N	GND
11.5530	000	48.10	10.5	60	11.9	QP	N	GND
11.6880	000	47.90	10.5	60	12.1	QP	N	GND
29.6250	000	48.70	11.0	60	11.3	QP	N	GND

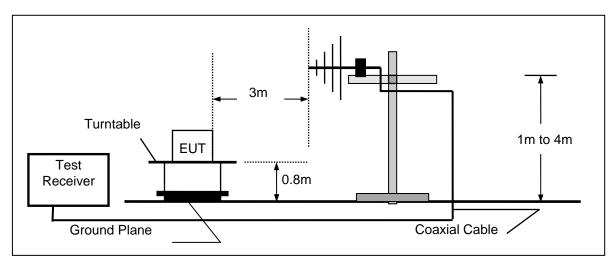
MEASUREMENT RESULT: "SINO0731306 fin2"

7,	/31/2013 9:3 Frequency MHz	1AM Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
	11.418000	39.70	10.5	50	10.3	AV	N	GND
	11.553000	40.10	10.5	50	9.9	AV	N	GND
	11.620500	40.20	10.5	50	9.8	AV	N	GND
	11.688000	39.80	10.5	50	10.2	AV	N	GND
	11.755500	39.50	10.5	50	10.5	AV	N	GND
	11.823000	38.30	10.5	50	11.7	AV	N	GND

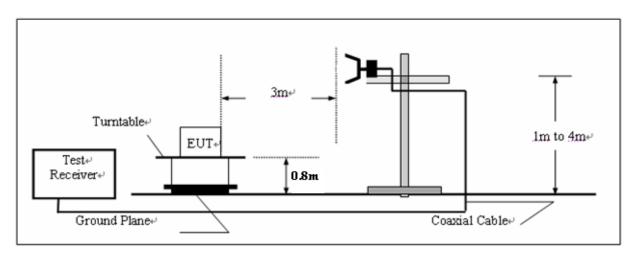
4.2. Radiated Emission Test

TEST CONFIGURATION

a) Radiated Emission Test Set-Up, Frequency below 1000MHz



b) Radiated Emission Test Set-Up, Frequency above 1000MHz



TEST PROCEDURE

- 1. The EUT is placed on a turntable, which is 0.8m above ground plane.
- 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 emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.
- 7. The Highest frequency generated or used in the device or on which the device operates or tunes was 2480MHz and the minimum operation frequency was 34.8KHz,so radiated emissions test frequency from 9KHz to 25GHz.

V1.0 Page 12 of 27 Report No.: SKW1307017E

FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

For example

Frequency	FS	RA AF (dBμV/m) (dB)		CL	AG	Transd
(MHz)	(dBµV/m)			(dB)	(dB)	(dB)
300.00	40	58.1	12.2	1.6	31.90	-18.1

Transd=AF +CL-AG

RADIATION LIMIT

according to § 15.209, the field strength of radiated emissions limits comply with the following:

Frequency (MHz)	Field strength (microvolts/meter)	Measure- ment dis- tance (meters)
0.009–0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705–30.0	30	30

For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)		
30-88	3	40.0	100		
88-216	3	43.5	150		
216-960	3	46.0	200		
Above 960	3	54.0	500		

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

As per §15.249 (a), except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)		
902–928 MHz	50	500		
2400-2483.5 MHz	50	500		
5725-5875 MHz	50	500		
24.0-24.25 GHz	250	2500		

As per §15.249 (c), Field strength limits are specified at a distance of 3 meters.

V1.0 Page 13 of 27 Report No.: SKW1307017E

Note:We tested three(High,Middle,Low) channels' Radiated emission and recored worst case data below 1G

TEST RESULTS

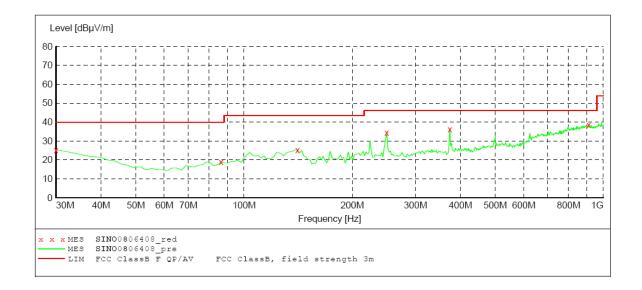
Reark: 1. The radiated emission measurement are for each channel(low,middle,high),and recorded worst case at middle channel.

From 9KHz to 30MHz

Frequency (MHz)	Corrected Reading (dBµV/m)@3m	FCC Limit (dBµV/m) @3m	Margin (dB)	Detector	Result
12.00	35.00	49.54	13.54	QP	PASS
24.00	31.56	49.54	17.98	QP	PASS

For 30MHz to 1GHz

SCAN TABLE: "test (30M-1G)"
Short Description: Field Strength
Start Stop Detector Meas. IF
Frequency Frequency Time Bar
30.0 MHz 1.1 GHz MaxPeak Coupled 100 Transducer Bandw. MaxPeak Coupled 100 kHz VULB9163

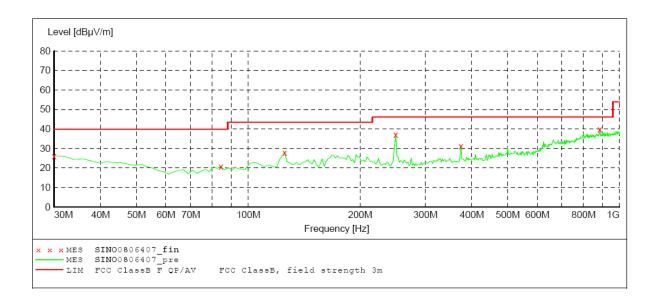


MEASUREMENT RESULT: "SINO0806408 red"

8/6/2013 12:4	13PM							
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.000000	25.30	-10.0	40.0	14.7	OP	300.0	218.00	HORIZONTAL
86.372745	19.00	-19.4	40.0	21.0	ÕР	100.0	12.00	HORIZONTAL
140.801603	25.30	-20.1	43.5	18.2	QP	300.0	18.00	HORIZONTAL
249.659319	34.50	-16.9	46.0	11.5	QP	100.0	130.00	HORIZONTAL
374.068136	36.20	-14.6	46.0	9.8	QP	100.0	65.00	HORIZONTAL
910.581162	38.60	-4.6	46.0	7.4	QP	300.0	277.00	HORIZONTAL

SCAN TABLE: "test (30M-1G)"

Short Description: Field Strength
Start Stop Detector Meas. IF Transducer
Frequency Frequency Time Bandw. Frequency Frequency Time Bandw.
30.0 MHz 1.1 GHz MaxPeak Coupled 100 kHz VULB9163

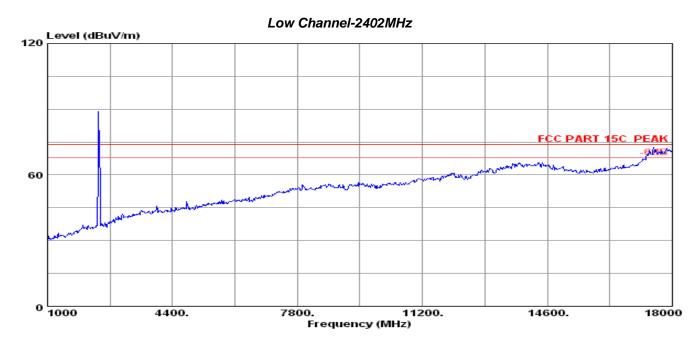


MEASUREMENT RESULT: "SINO0806407 fin"

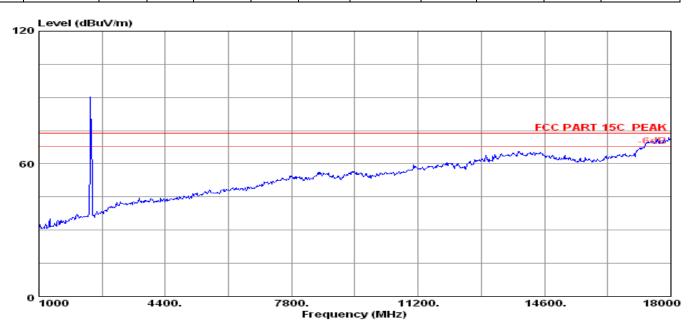
8/6/201	3 12:4	1PM							
Freq	uency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.0	00000	26.20	-10.0	40.0	13.8	OP	100.0	331.00	VERTICAL
84.4	28858	20.70	-19.7	40.0	19.3	QΡ	100.0	99.00	VERTICAL
125.2	50501	27.90	-18.2	43.5	15.6	QP	100.0	170.00	VERTICAL
249.6	59319	37.20	-16.9	46.0	8.8	QP	100.0	236.00	VERTICAL
374.0	68136	31.20	-14.6	46.0	14.8	QP	100.0	357.00	VERTICAL
885.3	10621	39.80	-4.2	46.0	6.2	OP	100.0	206.00	VERTICAL

For 1GHz to 25GHz

The frequency spectrum above 1 GHz for Transmitter was investigated. All emission not reported are much lower than the prescribed limits. Set the RBW=1MHz,VBW=3MHz for Peak Detector while the RBW=1MHz,VBW=10Hz for Average Detector,Readings are both peak and average values. The pre-test have done for the EUT in three axes and found the worst emission at position shown in test setup photos.



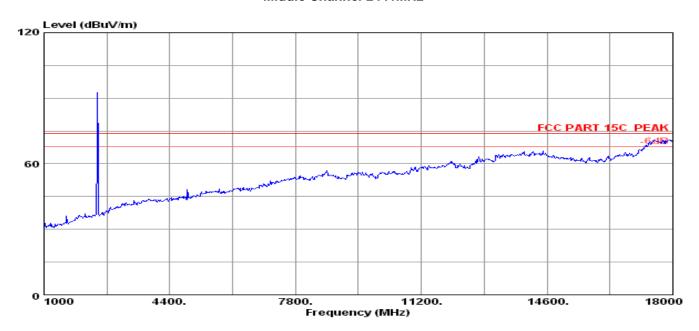
	ANTENNA POLARITY & TEST DISTANCE: VERTICAL 3 M											
No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	
1	*2402.00	95.83	PK	114.00	18.17	1.00	346	93.76	29.44	8.72	36.09	
1	*2402.00	81.10	AV	94.00	12.90	1.00	346	79.03	29.44	8.72	36.09	
2	4804.00	57.09	PK	74.00	16.91	1.00	300	45.81	34.30	12.35	35.37	
2	4804.00	49.89	AV	54.00	4.11	1.00	300	38.61	34.30	12.35	35.37	



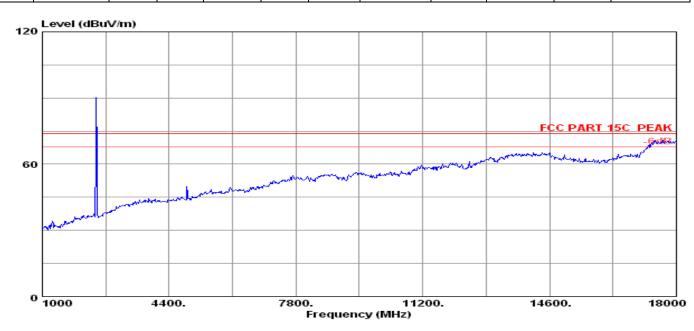
V1.0 Page 16 of 27 Report No.: SKW1307017E

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
No.	Frequency (MHz)	Ems Lev (dBu)	vel	Limit (dBuV/m)	Margin	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)
1	*2402.00	94.75	PK	114.00	19.25	1.00	23	92.68	29.44	8.72	36.09
1	*2402.00	81.00	AV	94.00	13.00	1.00	23	78.93	29.44	8.72	36.09
2	4804.00	55.07	PK	74.00	18.93	1.00	117	43.79	34.30	12.35	35.37
2	4804.00	47.87	AV	54.00	6.13	1.00	117	36.59	34.30	12.35	35.37

Middle Channel-2441MHz



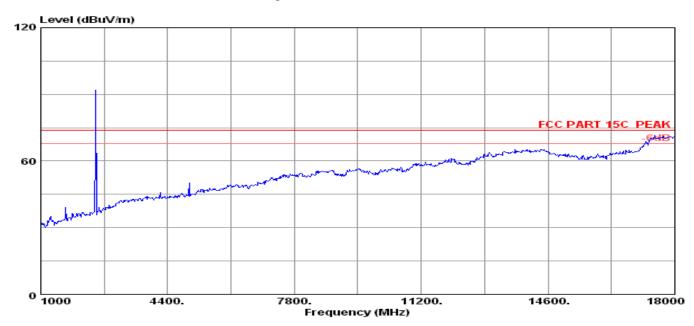
	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
										1	
	Fraguenay	Ems	sion	Limit	Morgin	Antenna	Table	Raw	Antenna	Cable	Pre-amplifier
No.	Frequency	Le	vel		Margin	Height	Angle	Value	Factor	Factor	•
	(MHz)	(dBu		(dBuV/m)	(dB)	(m)	(Degree)	(dBuV)	(dB/m)	(dB)	(dB)
1	*2441.00	94.41	PK	114.00	19.59	1.00	169	92.23	29.47	8.77	36.06
1	*2441.00	82.15	AV	94.00	11.85	1.00	169	79.97	29.47	8.77	36.06
2	4882.00	55.94	PK	74.00	18.06	1.00	356	44.45	34.41	12.44	35.36
2	4882.00	48.74	AV	54.00	5.26	1.00	356	37.25	34.41	12.44	35.36



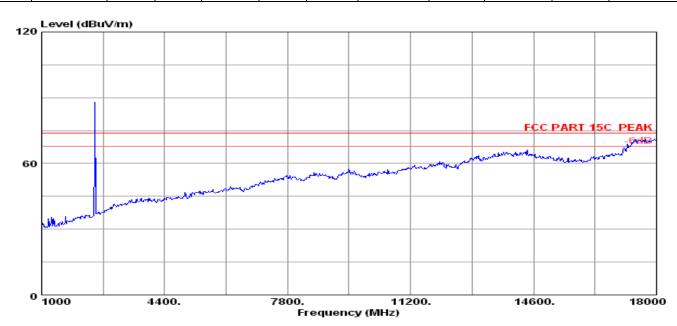
V1.0 Page 17 of 27 Report No.: SKW1307017E

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL 3 M										
No.	Frequency (MHz)	Ems Lev (dBu	vel	Limit (dBuV/m)	Margin	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)
1	*2441.00	93.76	PK	114.00	20.24	1.00	278	91.58	29.47	8.77	36.06
1	*2441.00	80.26	AV	94.00	13.74	1.00	278	78.06	29.47	8.77	36.06
2	4882.00	57.72	PK	74.00	16.28	1.00	165	46.23	34.41	12.44	35.36
2	4882.00	50.49	AV	54.00	3.51	1.00	165	39.00	34.41	12.44	35.36

High Channel-2480MHz



	ANTENNA POLARITY & TEST DISTANCE: VERTICAL 3 M										
No.	Frequency (MHz)	Ems Lev (dBu)	/el	Limit (dBuV/m)	Margin	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)
1	*2480.00	92.64	PK	114.00	21.36	1.00	28	90.25	29.49	8.87	35.97
1	*2480.00	79.08	AV	94.00	14.92	1.00	28	76.68	29.49	8.87	35.97
2	4960.00	58.09	PK	74.00	15.91	1.00	296	46.39	34.54	12.53	35.37
2	4960.00	50.87	AV	54.00	3.13	1.00	296	39.17	34.54	12.53	35.37



V1.0 Page 18 of 27 Report No.: SKW1307017E

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
No.	Frequency (MHz)	Ems Lev (dBu	vel	Limit (dBuV/m)	Margin	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)
1	*2480.00	93.03	PK	114.00	20.97	1.00	28	90.64	29.49	8.87	35.97
1	*2480.00	81.00	AV	94.00	13.00	1.00	28	78.61	29.49	8.87	35.97
2	4960.00	57.70	PK	74.00	16.30	1.00	247	46.00	34.54	12.53	35.37
2	4960.00	50.41	AV	54.00	3.59	1.00	247	38.71	34.54	12.53	35.37

REMARKS: 1. Emission level (dBuV/m) =Raw Value (dBuV) + Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor

- 2. The other emission levels were very low against the limit.
- 3. Margin value = Limit value- Emission level.
- 4. The limit value is defined as per 15.249
- 5. " * ": Fundamental frequency
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

V1.0 Page 19 of 27 Report No.: SKW1307017E

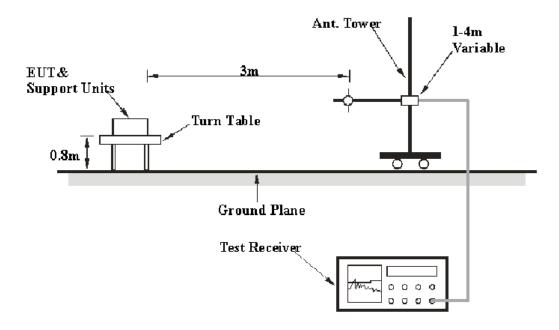
4.3. Out of band emissions

TEST PROCEDURE

The band edge compliance of RF radiated emission should be measured by following the guidance in ANSI C63.4 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW to 1MHz and VBM to 3MHz to measure the peak field strength and set RBW to 1MHz and VBW to 10Hz to measure the average radiated field strength.

The conducted RF band edge was measured by using a spectrum analyzer. Set span wide enough to capture the highest in-band emission and the emission at the band edge. Set RBW to 100 KHz and VBM to 300 KHz, to measure the conducted peak band edge.

TEST CONFIGURATION

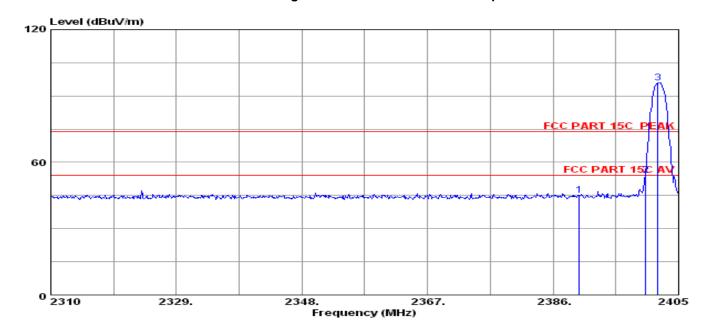


LIMIT

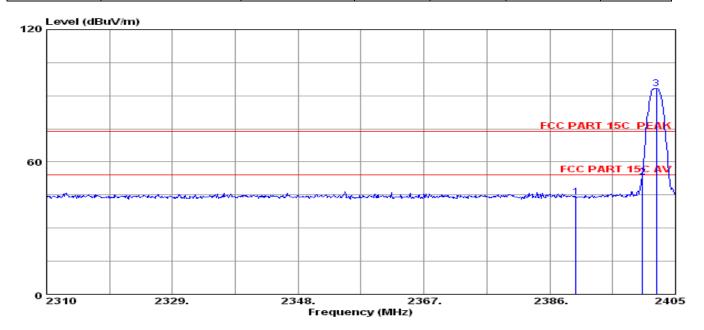
FCC PART 15.249(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

TEST RESULTS

Report No.: SKW1307017E

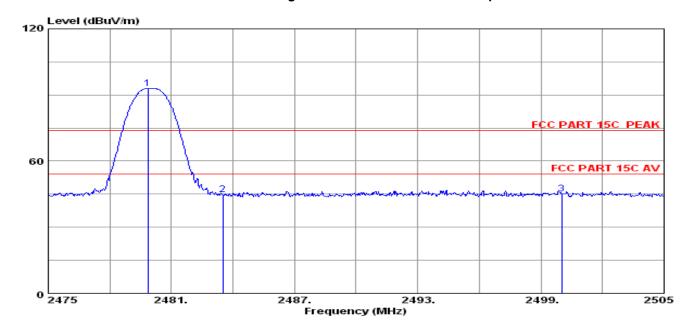


Frequency (MHz)	Corrected Reading (dBµV/m)@3m	FCC Limit (dBµV/m) @3m	Margin (dB)	Detector	Polarization	Results
2390.00	45.02	74.00	28.98	PK	Horizontal	PASS
2400.00	54.16	74.00	19.84	PK	Horizontal	PASS

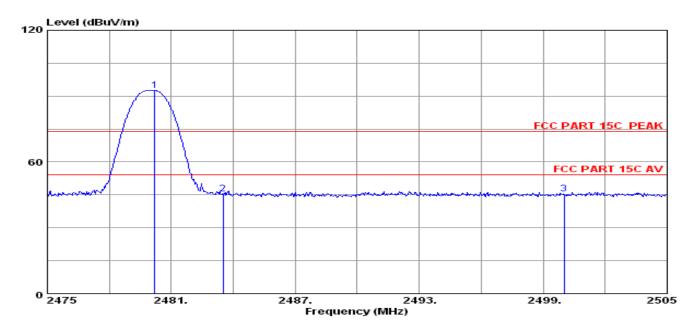


Frequency (MHz)	Corrected Reading (dBµV/m)@3m	FCC Limit (dBµV/m) @3m	Margin (dB)	Detector	Polarization	Results
2390.00	44.19	74.00	29.81	PK	Vertical	PASS
2400.00	53.09	74.00	20.91	PK	Vertical	PASS

Report No.: SKW1307017E



Frequency (MHz)	Corrected Reading (dBµV/m)@3m	FCC Limit (dBµV/m) @3m	Margin (dB)	Detector	Polarization	Results
2483.50	44.68	74.00	29.32	PK	Horizontal	PASS
2500.00	44.99	74.00	29.01	PK	Horizontal	PASS

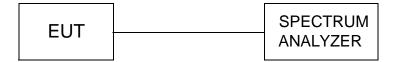


Frequency (MHz)	Corrected Reading (dBµV/m)@3m	FCC Limit (dBµV/m) @3m	Margin (dB)	Detector	Polarization	Results
2483.50	45.33	74.00	28.67	PK	Vertical	PASS
2500.00	45.37	74.00	28.63	PK	Vertical	PASS

V1.0 Page 22 of 27 Report No.: SKW1307017E

4.4. 20dB Bandwidth Measurement

TEST CONFIGURATION



TEST PROCEDURE

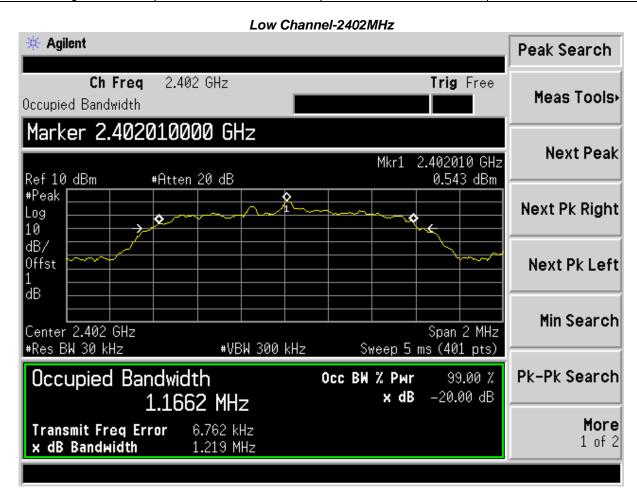
The transmitter output is connected to the spectrum analyzer. The spectrum analyzer center frequency is set to the transmitter frequency. The RBW is set to 100 KHz and VBW is set 300 KHz.

LIMIT

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

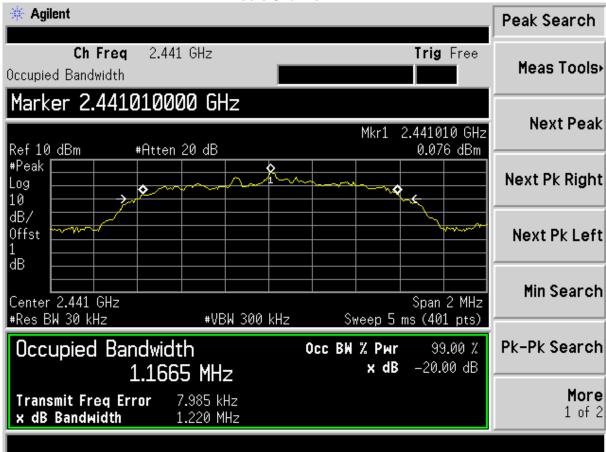
TEST RESULTS

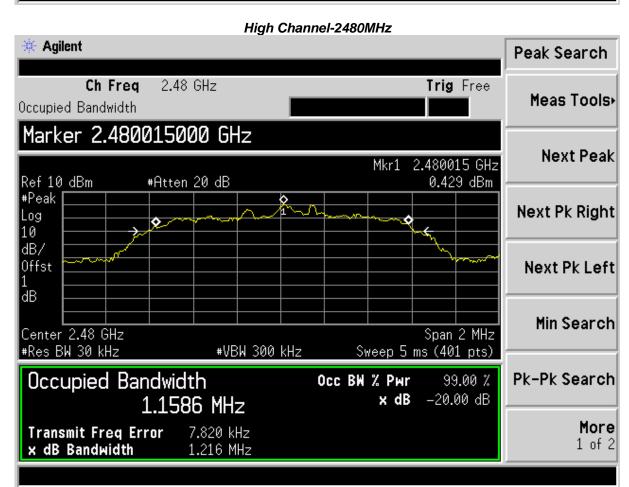
Test Channel	Test Frequency (MHz)	20dB Bandwidth (MHz)	Test Results
Low	2402	1.219	PASS
Middle	2441	1.220	PASS
High	2480	1.216	PASS



V1.0 Page 23 of 27 Report No.: SKW1307017E

Middle Channel-2441MHz



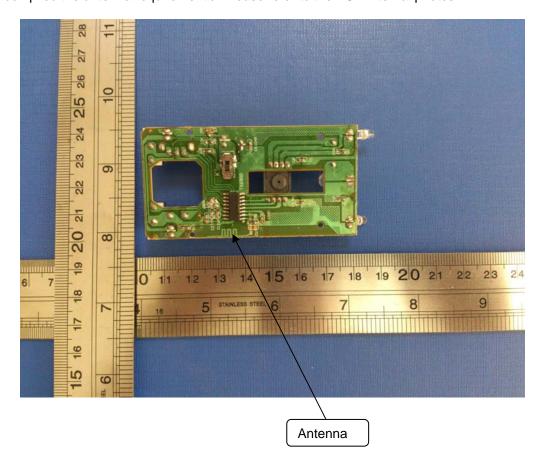


4.5. ANTENNA REQUIREMENT

According to FCC Part 15C § 15.203,

- a), An intentional radiator shall be de-signed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.
- b), 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.

The EUT complied the antenna requirement., Please refer to the EUT Internal photos.



5. Test Setup Photos of the EUT



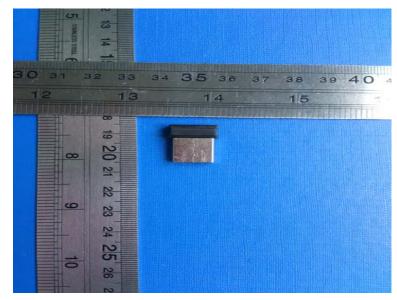


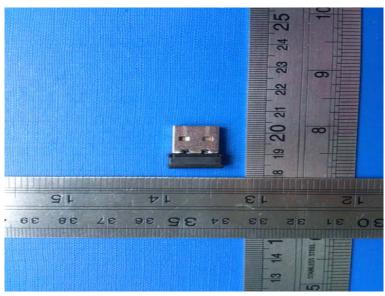


V1.0 Page 26 of 27 Report No.: SKW1307017E

6. External and Internal Photos of the EUT

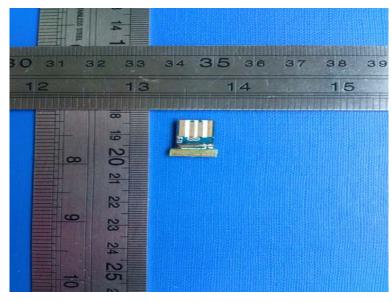
External Photos

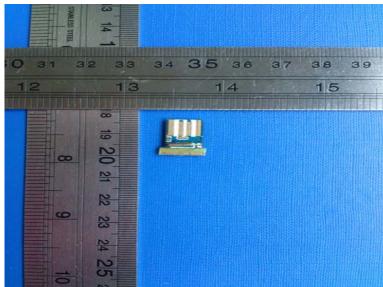




V1.0 Page 27 of 27 Report No.: SKW1307017E

Internal Photos





.....End of Report.....