

FCC TEST REPORT

Test report
On Behalf of
Guangzhou Forsafe Electronics Technology Co.,Ltd
For
2.4G Wireless Rear View Camera System
Model No.: YW-CC062TX, YW-CM062TX, YW-CM065TX,
YW-CM066TX, YW-CC068TX
FCC ID: 2AMMD-CC062

Prepared for : **Guangzhou Forsafe Electronics Technology Co.,Ltd**
NO.1 Baiyun Rd., Fenghuang Anzhi Area, Huadu District, Guangzhou 510800
China

Prepared By : **Shenzhen WST Testing Co.,Ltd.**
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Date of Test: **Jun. 02, 2017 ~ Jun. 08, 2017**
Date of Report: **Jun. 08, 2017**
Report Number: **WST170602027-E**

TEST RESULT CERTIFICATION

Applicant's name: Guangzhou Forsafe Electronics Technology Co.,Ltd
Address: NO.1 Baiyun Rd., Fenghuang Anzhi Area, Huadu
District, Guangzhou 510800 China
Manufacture's Name.....: Guangzhou Forsafe Electronics Technology Co.,Ltd
Address: NO.1 Baiyun Rd., Fenghuang Anzhi Area, Huadu
District, Guangzhou 510800 China
Product description
Trade Mark: /
Product name.....: 2.4G Wireless Rear View Camera System
Model and/or type reference : YW-CC062TX, YW-CM062TX, YW-CM065TX, YW-CM066TX,
YW-CC068TX
Standards: FCC Rules and Regulations Part 15 Subpart C Section 15.249
ANSI C63.10: 2013

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Date of Test

Date (s) of performance of tests **Jun. 02, 2017 ~ Jun. 08, 2017**

Date of Issue..... **Jun. 08, 2017**

Test Result..... **Pass**

Testing Engineer :



(Eric Xie)

Technical Manager :



(Dora Qin)

Authorized Signatory :



(Kait Chen)

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1. TEST SUMMARY

1.1 TEST PROCEDURES AND RESULTS

DESCRIPTION OF TEST	RESULT
CONDUCTED EMISSIONS TEST	N/A
RADIATED EMISSION TEST	COMPLIANT
BAND EDGE	COMPLIANT
OCCUPIED BANDWIDTH MEASUREMENT	COMPLIANT
ANTENNA REQUIREMENT	COMPLIANT

1.2 TEST FACILITY

Test Firm : QTC Certification & Testing Co., Ltd.
Certificated by FCC, Registration No.: 588523
Address 2nd Floor,B1 Building,Fengyeyuan Industrial Plant, Liuxian 2st. Road,
Xin'an Street, Bao'an District, Shenzhen, China

1.3 MEASUREMENT UNCERTAINTY

Measurement Uncertainty	
Conducted Emission Expanded Uncertainty	= 2.23dB, k=2
Radiated emission expanded uncertainty(9kHz-30MHz)	= 3.08dB, k=2
Radiated emission expanded uncertainty(30MHz-1000MHz)	= 4.42dB, k=2
Radiated emission expanded uncertainty(Above 1GHz)	= 4.06dB, k=2

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	2.4G Wireless Rear View Camera System
Model Name	YW-CC062TX
Serial Model	YW-CM062TX, YW-CM065TX, YW-CM066TX, YW-CC068TX
Model Difference	All model's the function, software and electric circuit are the same, only with a product appearance and model named different. Test sample model: YW-CC062TX.
FCC ID	2AMMD-CC062
Antenna Type	Reverse SMA
Antenna gain	2 dBi
BT Operation frequency	2403-2478MHz
Number of Channels	26CH
Modulation Type	FSK
Power Source	DC Voltage
Power Rating	DC 12V from Battery
Adapter Model	/

2.1.1 Carrier Frequency of Channels

Channel List

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2403	10	2430	19	2457
02	2406	11	2433	20	2460
03	2409	12	2436	21	2463
04	2412	13	2439	22	2466
05	2415	14	2442	23	2469
06	2418	15	2445	24	2472
07	2421	16	2448	25	2475
08	2424	17	2451	26	2478
09	2427	18	2454	/	/

Operation of EUT during testing

Operating Mode

The mode is used: **Transmitting mode**

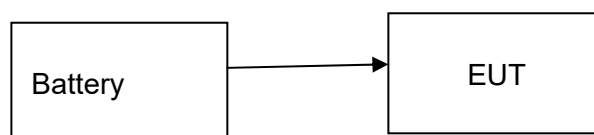
Low Channel: 2403MHz

Middle Channel: 2442MHz

High Channel: 2478MHz

2.2 DESCRIPTION OF TEST SETUP

Operation of EUT during testing



2.3 MEASUREMENT INSTRUMENTS LIST

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1.	EMI Receiver	Rohde & Schwarz	ESCI	100627	Feb. 18, 2017	Feb. 17, 2018
2.	LISN	SchwarzBeck	NSLK 8126	8126377	Feb. 18, 2017	Feb. 17, 2018
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Feb. 18, 2017	1 Year
4.	EMI Test Software ES-K1	Rohde & Schwarz	N/A	N/A	N/A	N/A
5.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Feb. 18, 2017	Feb. 17, 2018
6.	Trilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Feb. 18, 2017	Feb. 17, 2018
7.	Pre-amplifier	Compliance Direction	PAP-0203	22008	Feb. 18, 2017	Feb. 17, 2018
8.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
9.	EMI Receiver	Rohde & Schwarz	ESCI	100627	Feb. 18, 2017	Feb. 17, 2018
10.	LISN	SchwarzBeck	NSLK 8126	8126377	Feb. 18, 2017	Feb. 17, 2018
11.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Feb. 18, 2017	Feb. 17, 2018
12.	EMI Test Software ES-K1	Rohde & Schwarz	N/A	N/A	N/A	N/A
13.	EMI Receiver	Rohde & Schwarz	ESCI	100627	Feb. 18, 2017	Feb. 17, 2018
14.	EMI Receiver	Rohde & Schwarz	ESCI	100627	Feb. 18, 2017	Feb. 17, 2018
15.	LISN	SchwarzBeck	NSLK 8126	8126377	Feb. 18, 2017	Feb. 17, 2018
16.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Feb. 18, 2017	Feb. 17, 2018
17.	EMI Test Software ES-K1	Rohde & Schwarz	N/A	N/A	N/A	N/A
18.	Power Meter	R&S	NRVD	SEL0069	Feb. 18, 2017	Feb. 17, 2018
19.	Power Sensor	R&S	URV5-Z2	SEL0071	Feb. 18, 2017	Feb. 17, 2018
20.	Power Sensor	R&S	URV5-Z2	SEL0072	Feb. 18, 2017	Feb. 17, 2018
21.	Software EMC32	R&S	EMC32-S	SEL0082	N/A	N/A
22.	Log-periodic Antenna	Amplifier Reasearch	APT1.580	SEL0073	Feb. 18, 2017	Feb. 17, 2018
23.	Loop Antenna	Schwarz beck	FMZB 1516	9773	Feb. 18, 2017	Feb. 17, 2018
24.	Broadband Antenna	Schwarz beck	VULB9163	9163-333	Feb. 18, 2017	Feb. 17, 2018
25.	Horn Antenna	ETS	3117	00086197	Feb. 18, 2017	Feb. 17, 2018
26.	Horn Antenna	Schwarzbeck	BBHA9170	BBHA91705 82	Feb. 18, 2017	Feb. 17, 2018
27.	Antenna Tripod	Amplifier Reasearch	TP1000A	SEL0074	Feb. 18, 2017	Feb. 17, 2018
28.	High Gain Horn Antenna	Amplifier Reasearch	AT4002A	SEL0075	Feb. 18, 2017	Feb. 17, 2018
29.	Spectrum analyzer	Agilent	N9020A	MY49911004 8	Feb. 18, 2017	Feb. 17, 2018
30.	Spectrum analyzer	Agilent	E4407B	MY46184326	Feb. 18, 2017	Feb. 17, 2018
31.	Spectrum analyzer	R&S	FSP30	836079/035	Feb. 18, 2017	Feb. 17, 2018
32.	RF Cable	Micable	C10-01-01-1	100309	Feb. 18, 2017	Feb. 17, 2018

3. CONDUCTED EMISSIONS TEST

3.1 Conducted Power Line Emission Limit

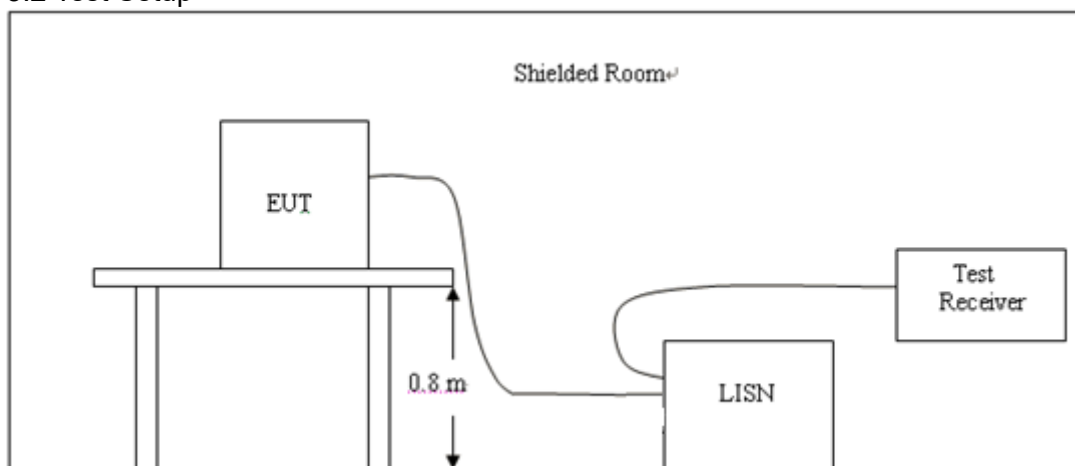
For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following

Frequency (MHz)	Maximum RF Line Voltage (dB μ V)			
	CLASS A		CLASS B	
	Q.P.	Ave.	Q.P.	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

* Decreasing linearly with the logarithm of the frequency

For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

3.2 Test Setup



3.3 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 C63.10.
- 2, Support equipment, if needed, was placed as per ANSI C63.10.
- 3, All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4, If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter 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.

3.4 Test Result

N/A

EUT power supply by battery, so this test item not applicable.

4 RADIATED EMISSION TEST

4.1 Radiation Limit

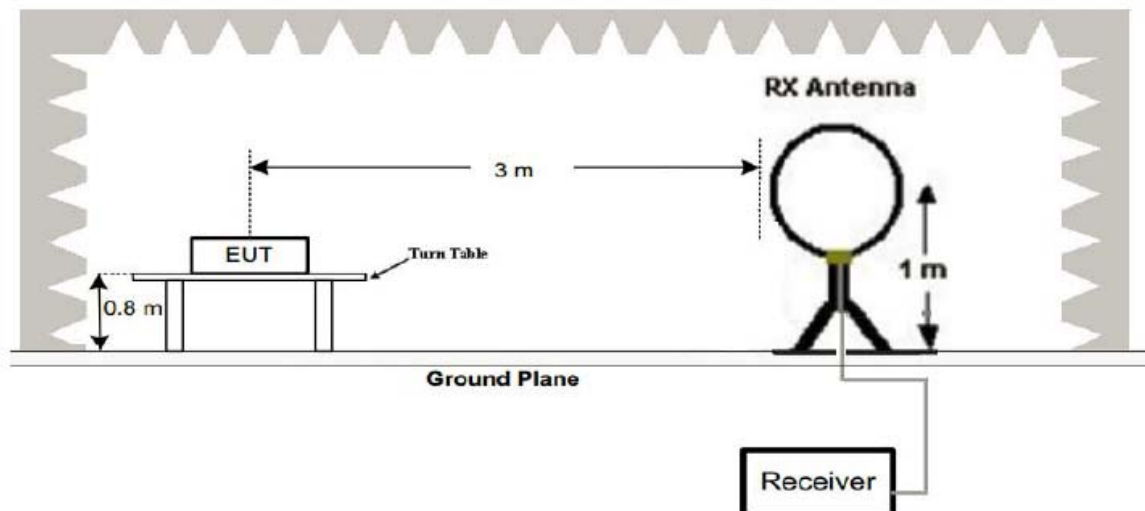
For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance (Meters)	Radiated (dB μ V/m)	Radiated (μ V/m)
30-88	3	40	100
88-216	3	43.5	150
216-960	3	46	200
Above 960	3	54	500

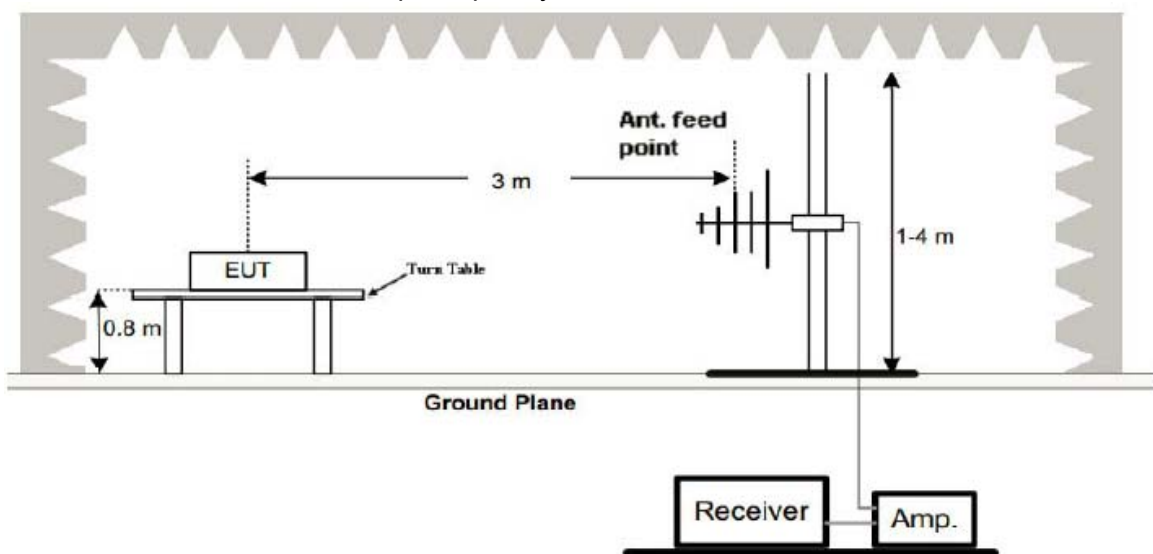
For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

4.2 Test Setup

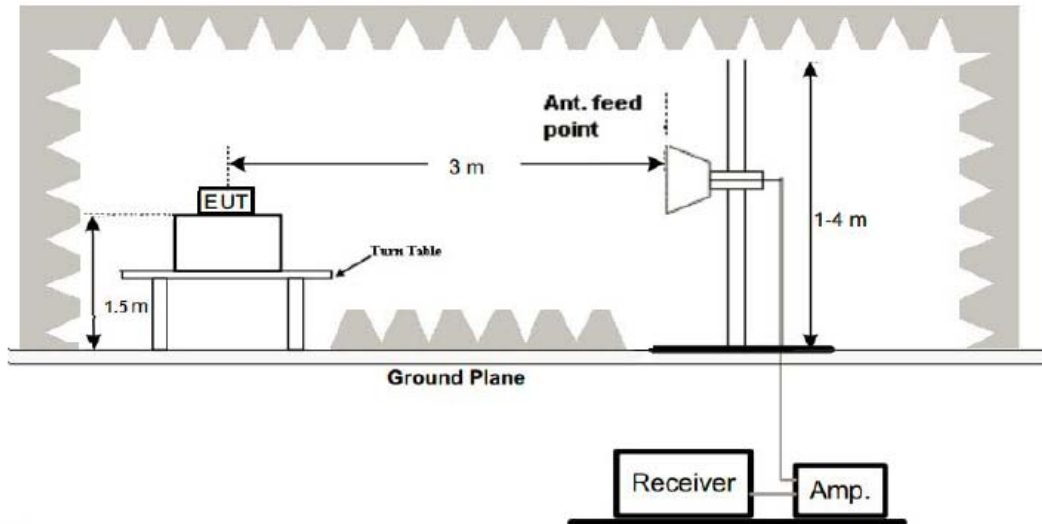
(1) Radiated Emission Test-Up Frequency Below 30MHz



(2) Radiated Emission Test-Up Frequency 30MHz~1GHz



(3) Radiated Emission Test-Up Frequency Above 1GHz



4.3 Test Procedure

- 1, Below 1GHz measurement the EUT is placed on 2.4G Wireless Rear View Camera System which is 0.8m above ground plane.
And above 1GHz measurement EUT was placed on low permittivity and low tangent turn table which is 1.5m above ground plane.
- 2, Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT
- 3, And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4, Repeat above procedures until all frequency measurements have been completed.

Note:

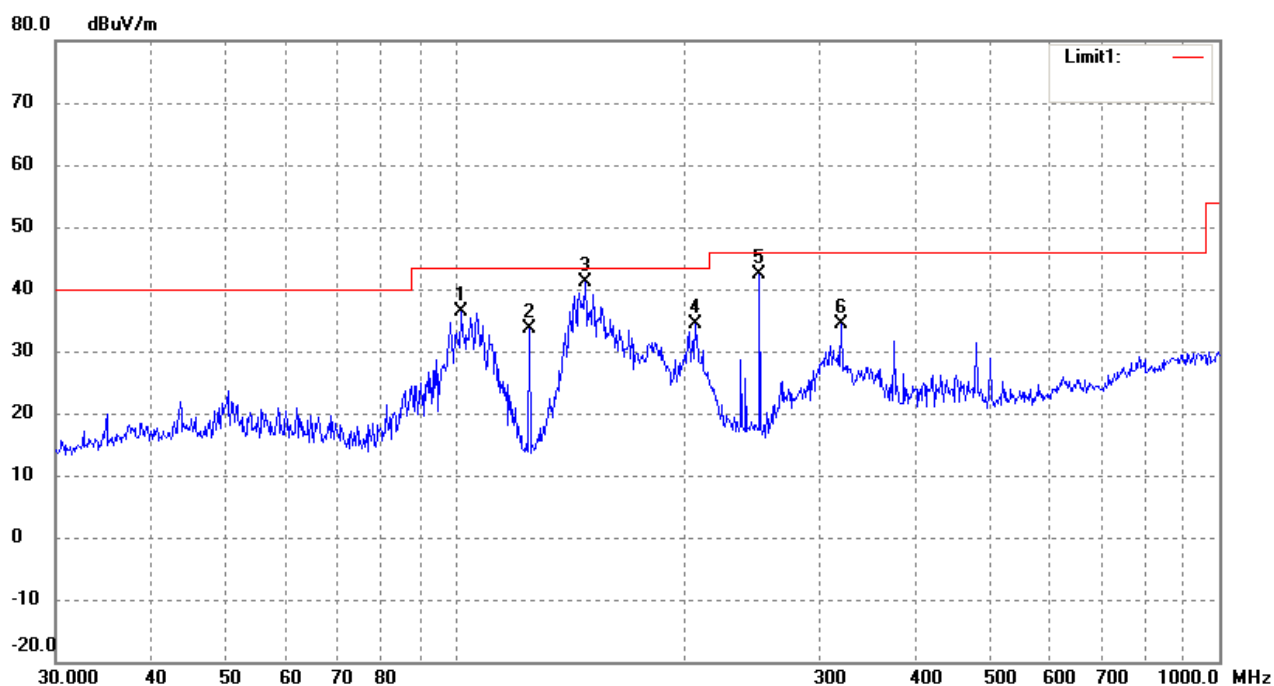
For battery operated equipment, the equipment tests shall be performed using a new battery.

4.4 Test Result

PASS

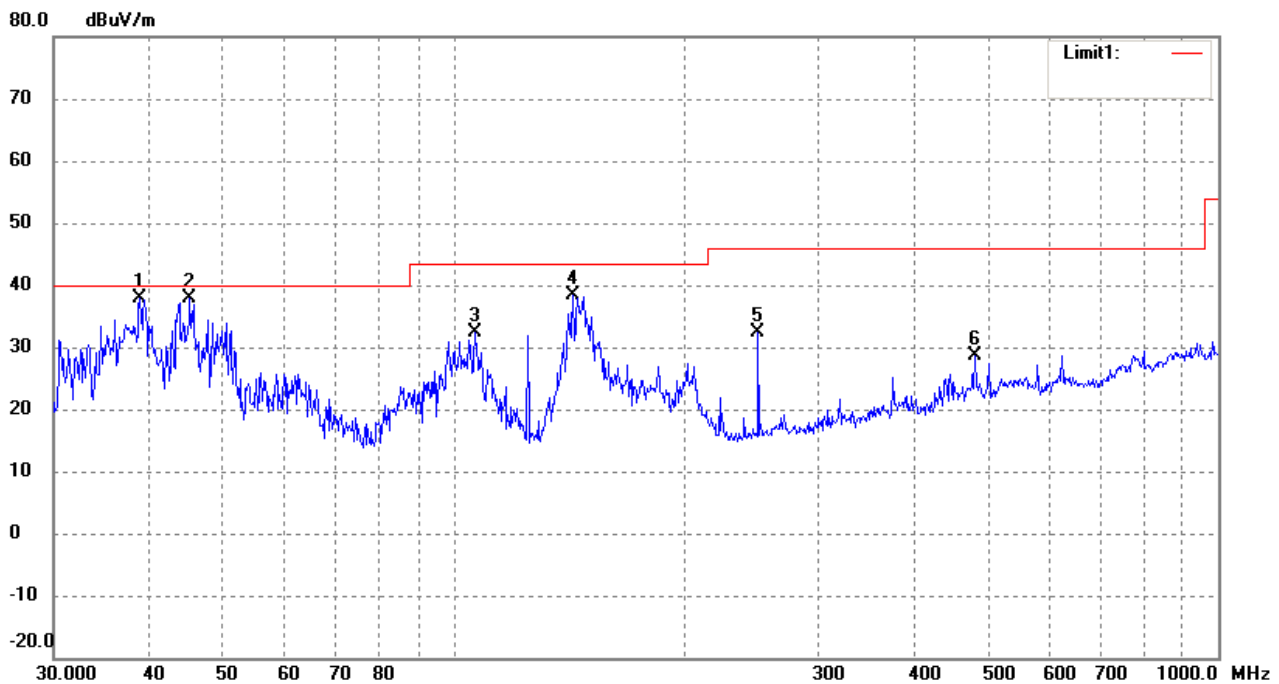
All the test modes completed for test. The worst case of Radiated Emission is CH 2403; the test data of this mode was reported.

Below 1GHz Test Results:
Antenna polarity: H



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	102.0014	47.89	-11.63	36.26	43.50	-7.24	63	100	peak
2	125.0066	47.65	-13.98	33.67	43.50	-9.83	169	100	peak
3	147.9214	56.06	-14.92	41.14	43.50	-2.36	126	100	peak
4	206.3976	46.21	-11.88	34.33	43.50	-9.17	122	100	peak
5	250.3012	52.98	-10.49	42.49	46.00	-3.51	295	100	peak
6	319.9370	43.90	-9.63	34.27	46.00	-11.73	308	100	peak

Antenna polarity: V



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	38.8879	48.62	-10.66	37.96	40.00	-2.04	282	100	peak
2	45.2166	48.39	-10.45	37.94	40.00	-2.06	130	100	peak
3	106.7587	44.54	-12.17	32.37	43.50	-11.13	56	100	peak
4	143.3261	53.12	-14.85	38.27	43.50	-5.23	108	100	peak
5	250.3012	42.98	-10.49	32.49	46.00	-13.51	50	100	peak
6	480.5276	34.01	-5.36	28.65	46.00	-17.35	270	100	peak

Remark:

- (1) Measuring frequencies from 9 KHz to the 1 GHz, Radiated emission test from 9KHz to 30MHz was verified, and no any emission was found except system noise floor.
- (2) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (3) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.

Above 1 GHz Test Results:

CH Low (2403MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2403	113.78	-5.84	107.94	114	-6.06	peak
2403	85.16	-5.84	79.32	94	-14.68	AVG
4806	59.26	-3.64	55.62	74	-18.38	peak
4806	43.34	-3.64	39.7	54	-14.3	AVG
7209	55.22	-0.95	54.27	74	-19.73	peak
7209	42.67	-0.95	41.72	54	-12.28	AVG
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---	---	---	---	---	---	---

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2403	111.25	-5.84	105.41	114	-8.59	peak
2403	85.87	-5.84	80.03	94	-13.97	AVG
4806	58.15	-3.64	54.51	74	-19.49	peak
4806	44.12	-3.64	40.48	54	-13.52	AVG
7209	53.27	-0.95	52.32	74	-21.68	peak
7209	37.87	-0.95	36.92	54	-17.08	AVG
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---	---	---	---	---	---	---

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

CH Middle (2442MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2442	108.24	-5.71	102.53	114	-11.47	peak
2442	86.17	-5.71	80.46	94	-13.54	AVG
4884	56.75	-3.51	53.24	74	-20.76	peak
4884	45.45	-3.51	41.94	54	-12.06	AVG
7326	53.98	-0.82	53.16	74	-20.84	peak
7326	37.43	-0.82	36.61	54	-17.39	AVG
---	---	---	---	---	---	---
---	---	---	---	---	---	---

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2442	107.23	-5.71	101.52	114	-12.48	peak
2442	82.15	-5.71	76.44	94	-17.56	AVG
4884	54.43	-3.51	50.92	74	-23.08	peak
4884	46.16	-3.51	42.65	54	-11.35	AVG
7326	52.45	-0.82	51.63	74	-22.37	peak
7326	33.36	-0.82	32.54	54	-21.46	AVG
---	---	---	---	---	---	---
---	---	---	---	---	---	---

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

CH High (2478MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2478	106.24	-5.65	100.59	114	-13.41	peak
2478	83.26	-5.65	77.61	94	-16.39	AVG
4956	55.65	-3.43	52.22	74	-21.78	peak
4956	45.62	-3.43	42.19	54	-11.81	AVG
7434	54.25	-0.75	53.5	74	-20.5	peak
7434	38.63	-0.75	37.88	54	-16.12	AVG
---	---	---	---	---	---	---
---	---	---	---	---	---	---

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2478	107.23	-5.65	101.58	114	-12.42	peak
2478	83.16	-5.65	77.51	94	-16.49	AVG
4956	56.35	-3.43	52.92	74	-21.08	peak
4956	42.27	-3.43	38.84	54	-15.16	AVG
7434	53.74	-0.75	52.99	74	-21.01	peak
7434	37.27	-0.75	36.52	54	-17.48	AVG
---	---	---	---	---	---	---
---	---	---	---	---	---	---

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.

5.1 Limits

5.2 Test Procedure

5.3 Test Result

PASS

Radiated Band Edge Test:
Operation Mode: TX CH Low (2403MHz)
Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2390	52.13	-5.81	46.32	74	-27.68	peak
2390	/	-5.81	/	54	/	AVG
2399	62.17	-5.84	56.33	74	-17.67	peak
2399	46.59	-5.84	40.75	54	-13.25	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2390	52.17	-5.81	46.36	74	-27.64	peak
2390	/	-5.81	/	54	/	AVG
2399	61.04	-5.84	55.20	74	-18.80	peak
2399	47.25	-5.84	41.41	54	-12.59	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Operation Mode: TX CH High (2478MHz)
Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	53.12	-5.65	47.47	74	-26.53	peak
2483.5	/	-5.65	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	51.34	-5.65	45.69	74	-28.31	peak
2483.5	/	-5.65	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.

6 OCCUPIED BANDWIDTH MEASUREMENT

6.1 Test Setup

Same as Radiated Emission Measurement

6.2 Test Procedure

1. The EUT was placed on a turn table which is 1.5m above ground plane.
2. Set EUT as normal operation.
3. Based on FCC Part15 C Section 15.239(a): RBW= 100KHz. VBW= 300 KHz, Span=1MHz.
4. The useful radiated emission from the EUT was detected by the spectrum analyser with peak detector.

6.3 Measurement Equipment Used

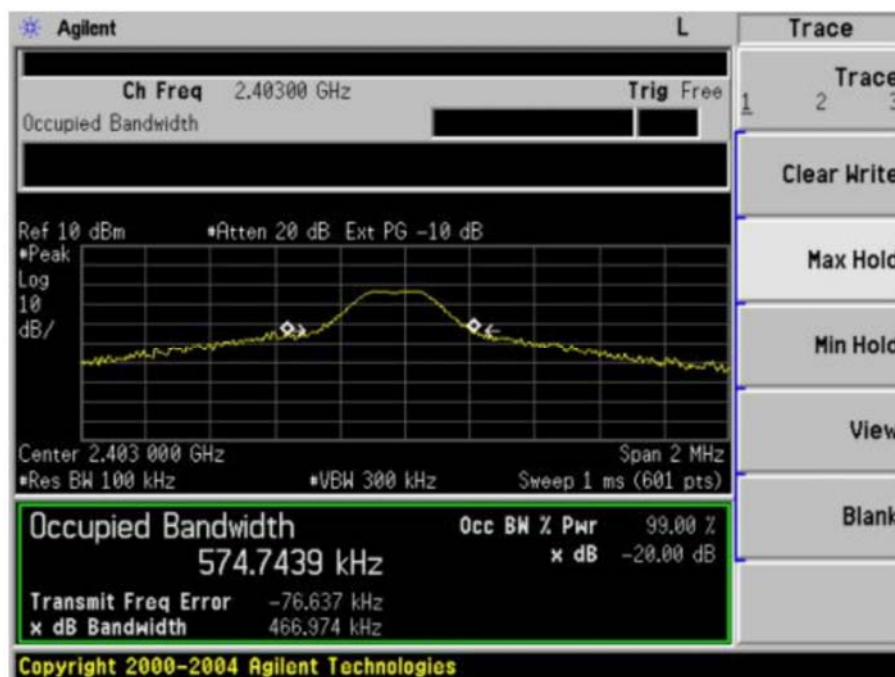
Same as Radiated Emission Measurement

6.4 Test Result

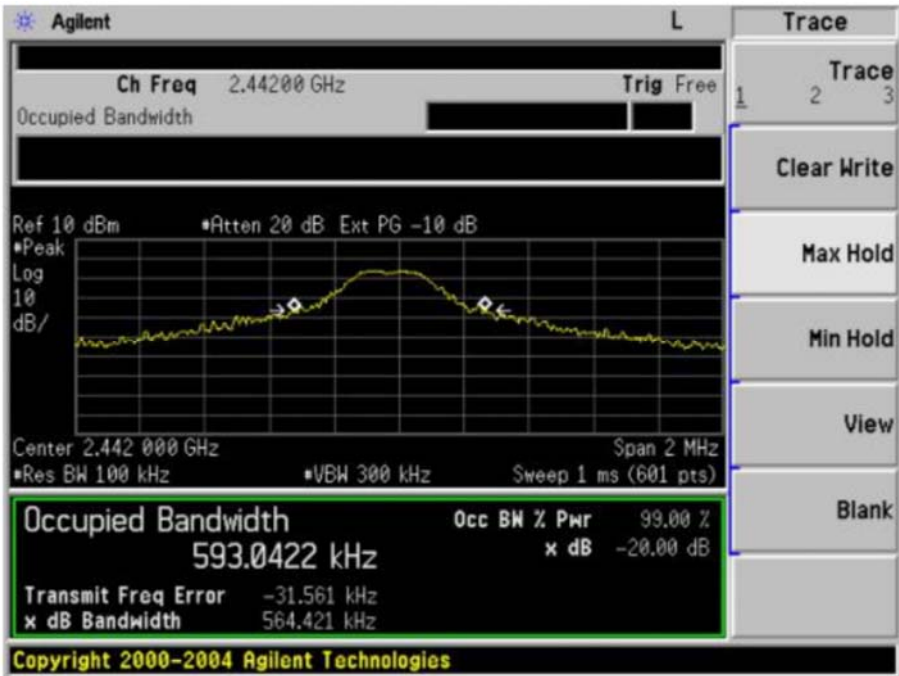
PASS

Frequency	20dB Bandwidth (KHz)	Result
2403 MHz	466.974	PASS
2442 MHz	564.421	PASS
2478 MHz	529.112	PASS

CH: 2403MHz



CH: 2442MHz



CH: 2478MHz



7 ANTENNA REQUIREMENT

Standard Applicable

For intentional device, according to FCC 47 CFR 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. And according to FCC 47 CFR Section 15.249, if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

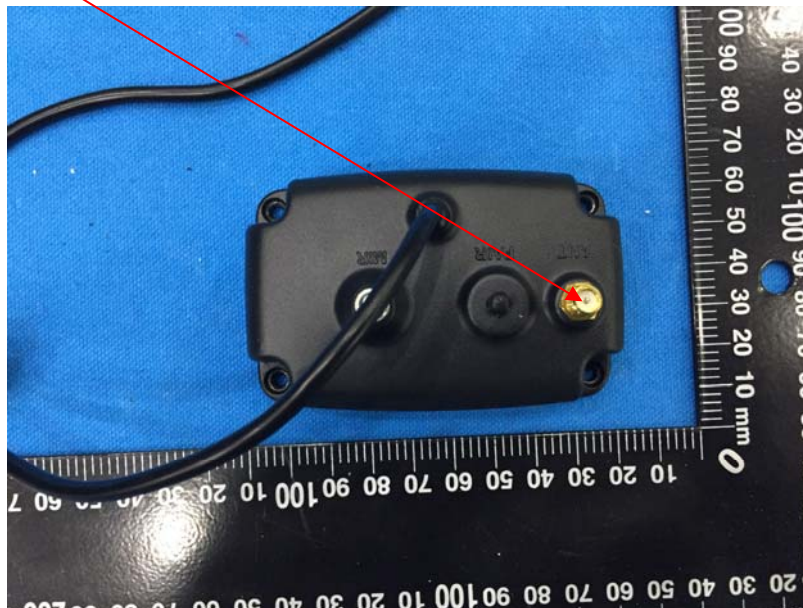
Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

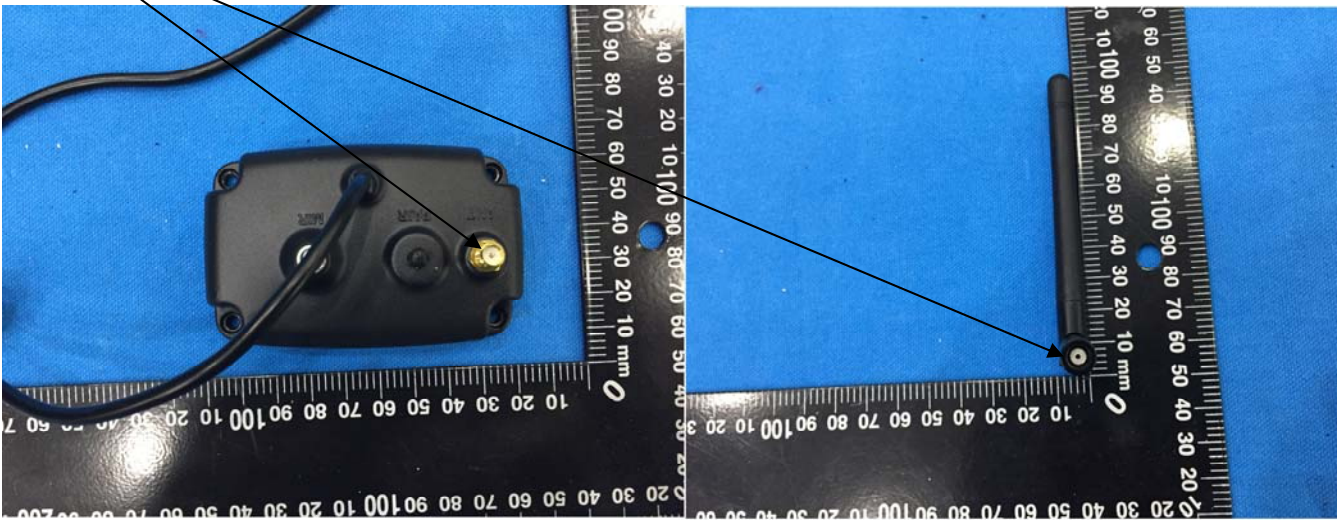
Antenna Connected Construction

The antenna used in this product is a Reverse SMA, The directional gains of antenna used for transmitting is 2dBi.

Antenna



reverse SMA connector



8 PHOTOGRAPH OF TEST

8.1 Radiated Emission

