



FCC TEST REPORT

Test report
On Behalf of
Bayou Bar & restaurant Supply
For

CashCow_Killer_Wifi

Model No.: LQK, LQK1, LQK2, LQK3, LQK4, LQK5, LQK6, LQK7, LQK8, LQK9

FCC ID: 2AKLM-LQK

Prepared for: Bayou Bar & restaurant Supply

Bayou Bar & Restaurant Supply, 199 Latino Street, Donaldsonville, Louisiana

70346 USA

Prepared By: Shenzhen HUAK Testing Technology Co., Ltd.

F1-008, Tai Yi Building, No.1, Haicheng West Road, Xixiang Street, Bao'an

District, Shenzhen City, China

Date of Test: December. 1, 2016 ~ December. 8, 2016

Date of Report: December. 9, 2016
Report Number: HK1601201057-E



TEST RESULT CERTIFICATION

Applicant's name:	Bayou Ba	ar & restaurant Supply
Address:	•	ar & Restaurant Supply, 199 Latino Street, onville, Louisiana 70346 USA
Manufacture's Name:	Hangzho	u Sabao Technology Co., Ltd.
Address:		3rd building , No 452 of 6th street, anggan district Hangzhou Zhejiang province China
Product description		
Trade Mark:	来钱快	
Product name:	CashCov	v_Killer_Wifi
Model and/or type reference :	LQK, LQI LQK9	K1, LQK2, LQK3, LQK4, LQK5, LQK6, LQK7, LQK8,
Standards:	FCC Rule ANSI C63	es and Regulations Part 15 Subpart C Section 15.247 3.10: 2013
source of the material. Shenzh	en HUAK for dama lacement	y Co., Ltd. is acknowledged as copyright owner and Testing Technology Co., Ltd. takes no responsibility for ges resulting from the reader's interpretation of the and context.
Date (s) of performance of tests	:	December. 1, 2016 ~ December. 8, 2016
Date of Issue	:	December. 9, 2016
Test Result	:	Pass
Testing Engine	eer :	Zm Xie
		(Eric Xie)
Technical Man	ager :	Dota Qin
		(Dora Qin)
Authorized Sig	gnatory :	town.
		(Kait Chen)



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8.2 Test Procedure

8.3 Measurement Equipment Used

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1. TEST SUMMARY

1.1 TEST PROCEDURES AND RESULTS

DESCRIPTION OF TEST	RESULT
CONDUCTED EMISSIONS TEST	COMPLIANT
RADIATED EMISSION TEST	COMPLIANT
BAND EDGE	COMPLIANT
OCCUPIED BANDWIDTH MEASUREMENT	COMPLIANT
POWER SPECTRAL DENSITY	COMPLIANT
PEAK OUTPUT POWEReak	COMPLIANT
ANTENNA REQUIREMENT	COMPLIANT

1.2 TEST FACILITY

Test Firm : Dongguan Dongdian Testing Service Co., Ltd

Certificated by FCC, Registration No.: 270092

Address No.17 Zongbu road 2, Songshan Lake Sci&Tech Park, DongGuan

City, Guangdong province,523808 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	CashCow_Killer_Wifi
Model Name	LQK
Serial No	LQK1, LQK2, LQK3, LQK4, LQK5, LQK6, LQK7, LQK8,
	LQK9
Model Difference	All model's the function, software and electric circuit are the same, only with a product color and model named different. Test sample model: LQK.
FCC ID	2AKLM-LQK
Antenna Type	Integral Antenna
Antenna Gain	0dBi
Operation frequency	WIFI: 802.11b/g/n 20:2412~2462 MHz
Number of Channels	802.11b/g/n20: 11CH
Modulation Type	CCK/OFDM/DBPSK/DAPSK
Power Source	AC 120V/60Hz
Power Rating	AC 120V/60Hz

Equipment	CashCow_Killer_Wifi
Model Name	LQK
Serial No	LQK1, LQK2, LQK3, LQK4, LQK5, LQK6, LQK7, LQK8,
	LQK9
Model Difference	All model's the function, software and electric circuit are the same, only with a product color and model named different. Test sample model: LQK.
FCC ID	2AKLM -LQK
Antenna Type	Integral Antenna
Antenna Gain	0dBi
Operation frequency	Bluetooth 4.0: 2402-2480MHz
Number of Channels	40CH
Modulation Type	GFSK
Power Source	AC 120V/60Hz
Power Rating	AC 120V/60Hz

Note: This report only BT test report, WIFI transmitters see the other test report.





2.1.1 Carrier Frequency of Channels

	Channel List												
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)						
01	2402	11	2422	21	2442	31	2462						
02	2404	12	2424	22	2444	32	2464						
03	2406	13	2426	23	2446	33	2466						
04	2408	14	2428	24	2448	34	2468						
05	2410	15	2430	25	2450	35	2470						
06	2412	16	2432	26	2452	36	2472						
07	2414	17	2434	27	2454	37	2474						
08	2416	18	2436	28	2456	38	2476						
09	2418	19	2438	29	2458	39	2478						
10	2420	20	2440	30	2460	40	2480						

Operation of EUT during testing

Operating Mode

The mode is used: Transmitting mode for BT

Low Channel: 2402MHz Middle Channel: 2440MHz High Channel: 2480MHz

2.2 DESCRIPTION OF TEST SETUP

Operation of EUT during conducted and Radiation testing:

EUT



2.3 MEASUREMENT INSTRUMENTS LIST

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Receiver	Rohde & Schwarz	ESCI	100627	Feb. 19, 2016	1 Year
2.	LISN	SchwarzBeck	NSLK 8126	8126377	Feb. 19, 2016	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Feb. 19, 2016	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. 19, 2016	1 Year
6.	Trilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Feb. 19, 2016	1 Year
7.	Pre-amplifier	Compliance Direction	PAP-0203	22008	Feb. 19, 2016	1 Year
8.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
9.	EMI Receiver	Rohde & Schwarz	ESCI	100627	Feb. 19, 2016	1 Year
10.	LISN	SchwarzBeck	NSLK 8126	8126377	Feb. 19, 2016	1 Year
11.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Feb. 19, 2016	1 Year
12.	EMI Test Software ES-K1	Rohde & Schwarz	N/A	N/A	N/A	N/A
13.	EMI Receiver	Rohde & Schwarz	ESCI	100627	Feb. 19, 2016	1 Year
14.	EMI Receiver	Rohde & Schwarz	ESCI	100627	Feb. 19, 2016	1 Year
15.	LISN	SchwarzBeck	NSLK 8126	8126377	Feb. 19, 2016	1 Year
16.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Feb. 19, 2016	1 Year
17.	EMI Test Software ES-K1	Rohde & Schwarz	N/A	N/A	N/A	N/A
18.	Power Meter	R&S	NRVD	SEL0069	Feb. 19, 2016	1 Year
19.	Power Sensor	R&S	URV5-Z2	SEL0071	Feb. 19, 2016	1 Year
20.	Power Sensor	R&S	URV5-Z2	SEL0072	Feb. 19, 2016	1 Year
21.	Software EMC32	R&S	EMC32-S	SEL0082	N/A	N/A
22.	Log-periodic Antenna	Amplifier Reasearch	ALQK80	SEL0073	N/A	N/A
23.	Antenna Tripod	Amplifier Reasearch	TP1000A	SEL0074	N/A	N/A
24.	High Gain Horn Antenna(0.8-5GHz)	Amplifier Reasearch	AT4002A	SEL0075	N/A	N/A
25.	Spectrum analyzer	Agilent	N9020A	MY499110 048	Feb. 19, 2016	1 Year
26.	Spectrum analyzer	Agilent	E4407B	MY461843 26	Feb. 19, 2016	1 Year



CONDUCTED EMISSIONS TEST

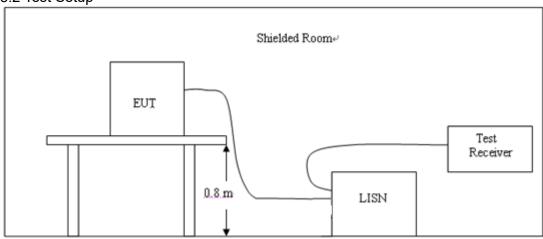
3.1 Conducted Power Line Emission Limit

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

Fraguenav	M	aximum RF Li	ine Voltage (d	BμV)	
Frequency (MHz)	CLAS	SS A	CLASS B		
(11112)	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



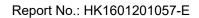
3.3 Test Procedure

- 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.

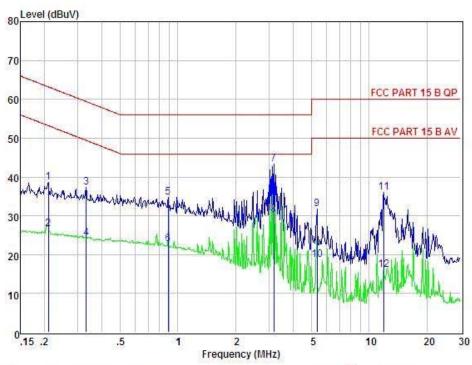
3.4 Test Result

PASS

All the test modes completed for test.





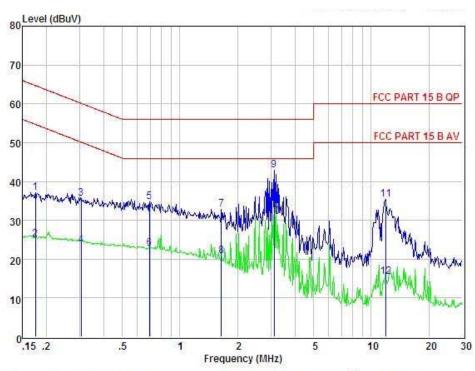


Conditio	n : F(CC PART	15 B QP		POI	: LINE	Ter	mp:24 °C	Hum:56 %
Item	Freq	Read	LISN Factor	Preamp Factor		Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	0.211	28.67	0.03	-9.72	0.10	38.52	63.18	-24.66	QP
2	0.211	16.67	0.03	-9.72	0.10	26.52	53.18	-26.66	Average
3	0.332	27.40	0.03	-9.72	0.10	37.25	59.40	-22.15	QP
4	0.332	14.40	0.03	-9.72	0.10	24.25	49.40	-25.15	Average
5	0.890	24.84	0.04	-9.71	0.10	34.69	56.00	-21.31	QP
6	0.890	12.84	0.04	-9.71	0.10	22.69	46.00	-23.31	Average
7	3.173	33.37	0.07	-9.69	0.12	43.25	56.00	-12.75	QP
8	3.173	20.37	0.07	-9.69	0.12	30.25	46.00	-15.75	Average
9	5,333	21.79	0.10	-9.66	0.13	31.68	60.00	-28,32	QP
10	5.333	8.79	0.10	-9.66	0.13	18.68	50.00	-31.32	Average
11	11.933	26.07	0.26	-9.47	0.22	36.02	60.00	-23.98	QP
12	11.933	6.07	0.26	-9.47	0.22	16.02	50.00	-33.98	Average

Remarks: Level = Read + LISN Factor - Preamp Factor + Cable loss







Conditi	on : F	CC PART	15 B QP		POI	: NEUTR	AL Ter	mp:24 °C	Hum:56 %
Ite	m Freq	Read	LISN Factor	Preamp Factor	Cable Lose	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	0.176	27.32	0.03	-9.72	0.10	37.17	64.68	-27.51	QP
2	0.176	15.32	0.03	-9.72	0.10	25.17	54.68	-29.51	Average
3	0.305	25.76	0.03	-9.72	0.10	35.61	60.10	-24.49	QP
4	0.305	13.76	0.03	-9.72	0.10	23.61	50.10	-26.49	Average
5	0.694	24.87	0.04	-9.72	0.10	34.73	56.00	-21.27	QP
6	0.694	12.87	0.04	-9.72	0.10	22.73	46.00	-23.27	Average
7	1.645	23.03	0.05	-9.71	0.10	32.89	56.00	-23.11	QP
8	1.645	11.03	0.05	-9.71	0.10	20.89	46.00	-25.11	Average
9	3.107	33.10	0.07	-9.69	0.12	42.98	56.00	-13.02	QP
10	3,107	21.10	0.07	-9.69	0.12	30,98	46.00	-15.02	Average
11	11.933	25.46	0.26	-9.47	0.22	35.41	60.00	-24.59	QP
12	11.933	5.46	0.26	-9.47	0.22	15.41	50.00	-34.59	Average

Remarks: Level = Read + LISN Factor - Freamp Factor + Cable loss



4 RADIATED EMISSION TEST

4.1 Radiation Limit

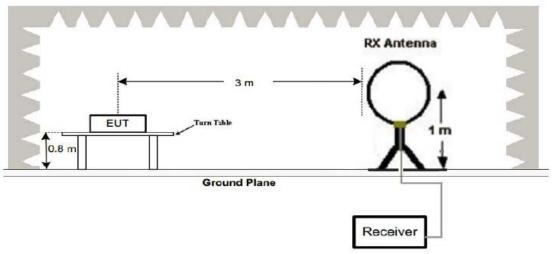
For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

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

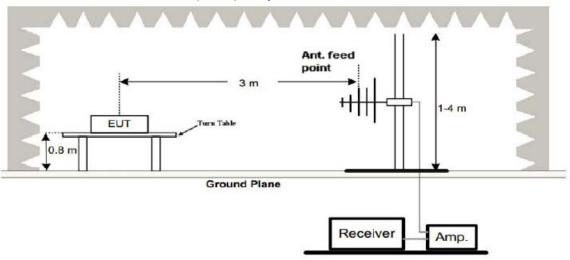
For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

4.2 Test Setup

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

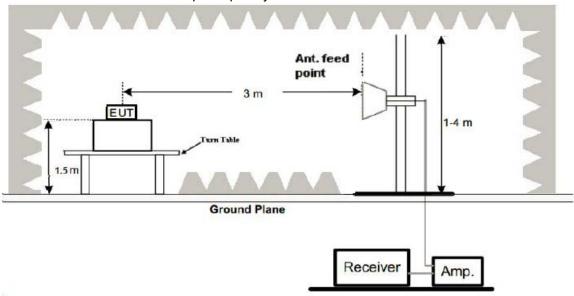


(2) Radiated Emission Test-Up Frequency 30MHz~1GHz





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



4.3 Test Procedure

- 1. Below 1GHz measurement the EUT is placed on turntable 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. 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 test frequency range from 9KHz to 25GHz per FCC PART 15.33(a).

Note:

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

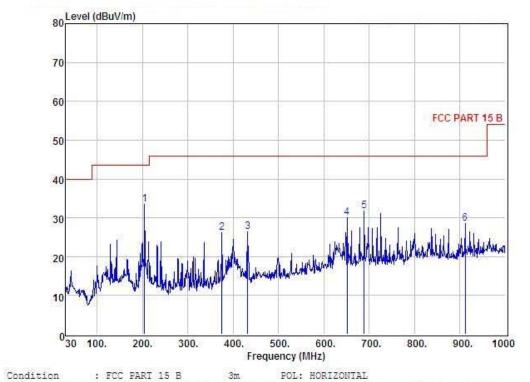
4.4 Test Result

PASS

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



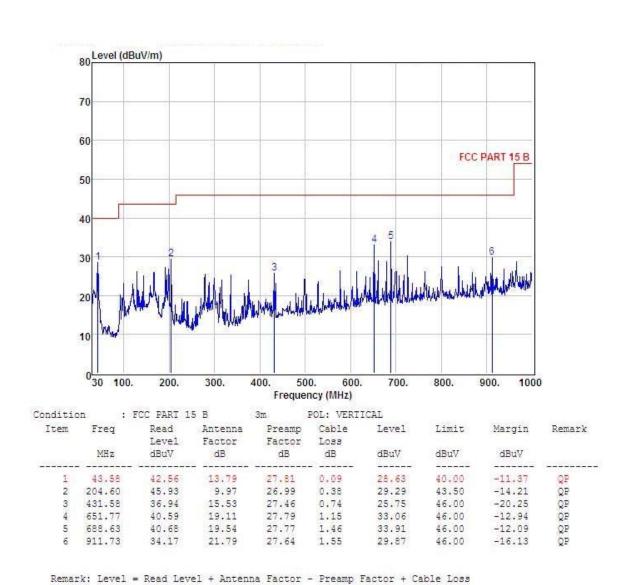
Below 1GHz Test Results: Antenna polarity: H



C	ondition	13 5	FCC PART 1	5 B	3m	POL: HORI	ZONTAL			
	Item	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
		MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
	1	204.60	50.11	9.97	26.99	0.38	33.47	43.50	-10.03	QP
	2	375.32	38.15	14.32	27.35	1.01	26.13	46.00	-19.87	QP
	3	431.58	37.60	15.53	27.46	0.74	26.41	46.00	-19.59	QP
	4	650.80	37.60	19.11	27.79	1.16	30.08	46.00	-15.92	QP
	5	688.63	38.42	19.54	27.77	1.46	31.65	46.00	-14.35	QP
	6	911.73	32.89	21.79	27.64	1.55	28.59	46.00	-17.41	QP



Antenna polarity: V



Remark. Devel - Read Devel + Ambenna lactor - licamp lactor + capie bob

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:

LOW CH1 /2402 Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4804	58.10	-3.64	54.46	74	-19.54	peak
4804	41.81	-3.64	38.17	54	-15.83	AVG
7206	52.23	-0.95	51.28	74	-22.72	peak
7206	36.38	-0.95	35.43	54	-18.57	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)	
4804	57.39	-3.64	53.75	74	-20.25	peak
4804	40.92	-3.64	37.28	54	-16.72	AVG
7206	51.67	-0.95	50.72	74	-23.28	peak
7206	35.41	-0.95	34.46	54	-19.54	AVG

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



MID CH20 /2440 Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4880	59.26	-3.51	55.75	74	-18.25	peak
4880	42.88	-3.51	39.37	54	-14.63	AVG
7320	52.55	-0.82	51.73	74	-22.27	peak
7320	36.10	-0.82	35.28	54	-18.72	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)	, ,
4880	57.98	-3.51	54.47	74	-19.53	peak
4880	41.87	-3.51	38.36	54	-15.64	AVG
7320	51.65	-0.82	50.83	74	-23.17	peak
7320	35.44	-0.82	34.62	54	-19.38	AVG

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



HIGH CH40 /2480 Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4960	58.81	-3.43	55.38	74	-18.62	peak
4960	43.60	-3.43	40.17	54	-1417	AVG
7440	53.22	-0.75	52.47	74	-21.53	peak
7440	37.26	-0.75	36.51	54	-17.49	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)	
4960	56.78	-3.43	53.35	74	-20.65	peak
4960	41.11	-3.43	37.68	54	-16.32	AVG
7440	51.91	-0.75	51.16	74	-22.84	peak
7440	36.49	-0.75	35.74	54	-18.26	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 BAND EDGE

5.1 Limits

Please refer section 15.247

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

5.2 Test Procedure

The band edge compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10 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 100KHz and VBM to 300KHz 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 VBW to 300 KHz, to measure the conducted peak band edge.

5.3 Test Result

PASS

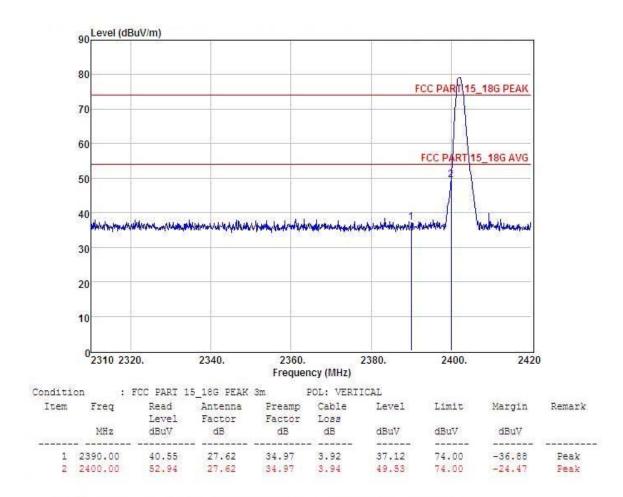
Detailed information please see the following page.



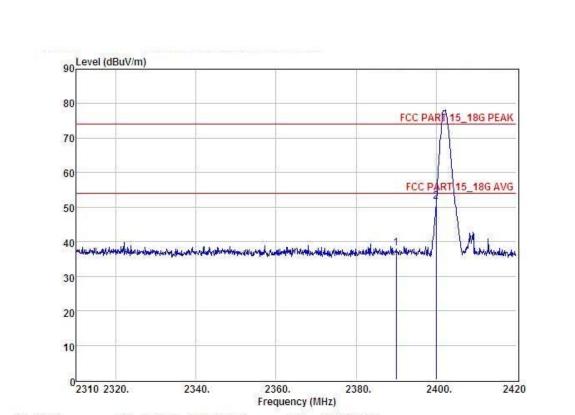


Radiated Band Edge Test:

Operation Mode: TX CH Low (2402MHz)



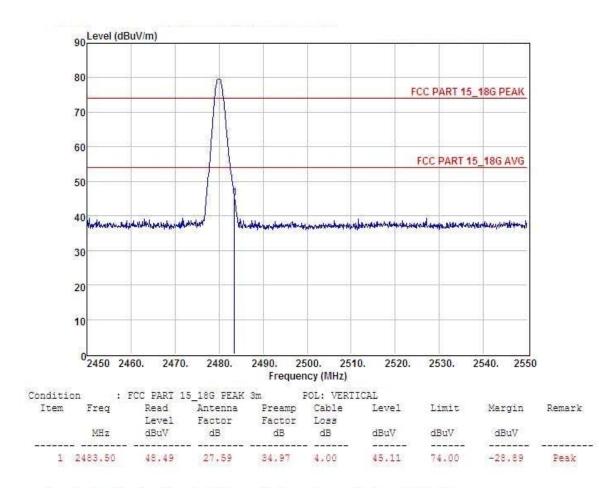




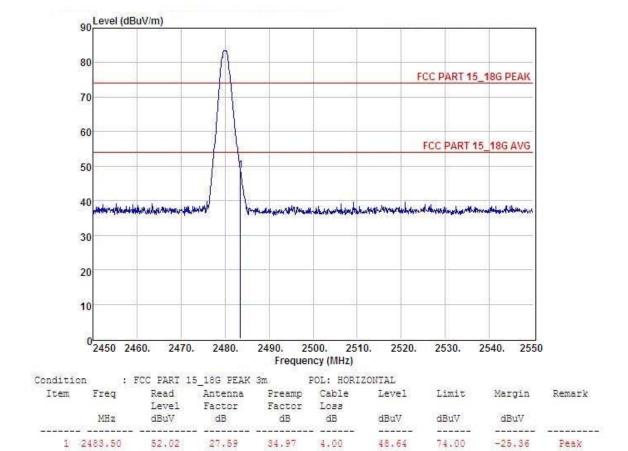
Conditi	on : I	FCC PART 1	5_18G PEAK	3m P	OL: HORIZ	CONTAL			
Item	Freq	Read	Antenna	Preamp	Cable	Level	Limit	Margin	Remark
		Level	Factor	Factor	Loss				
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	2390.00	41.64	27.62	34.97	3.92	38.21	74.00	-35.79	Peak
2	2400.00	54.98	27.62	34.97	3.94	51.57	74.00	-22.43	Peak



Operation Mode: TX CH High (2480MHz)











6 OCCUPIED BANDWIDTH MEASUREMENT

6.1 Test Limit

1 TOOL EIITHE							
	FCC Part15 (15.247) , Subpart C						
Section	Test Item	Limit	Frequency Range (MHz)	Result			
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS			

6.2 Test Procedure

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Set EUT as normal operation.
- 3. Based on FCC Part15 C Section 15.247: RBW= 100KHz. VBW= 300 KHz.
- 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

All the test modes completed for test.



	TX Mode		
Frequency	6dB Bandwidth (KHz)	Channel Separation (MHz)	Result
2402 MHz	694.0	>=500KHz	PASS
2440 MHz	695.8	>=500KHz	PASS
2480 MHz	687.9	>=500KHz	PASS

CH: 2402MHz





CH: 2440MHz



CH: 2480MHz







7 POWER SPECTRAL DENSITY TEST

7.1 Test Limit

'_	TOST EITHE							
	FCC Part15 (15.247) , Subpart C							
	Section	Test Item	Limit	Frequency Range (MHz)	Result			
	15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS			

7.2 Test Procedure

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Set EUT as normal operation.
- 3. Based on FCC Part15 C Section 15.247: RBW= 3KHz. VBW= 10 KHz, Span=3MHz.
- 4. The useful radiated emission from the EUT was detected by the spectrum analyser with peak detector.

7.3 Measurement Equipment Used

Same as Radiated Emission Measurement

7.4 Test Result

PASS

All the test modes completed for test.



	TX Mode		
Frequency	Power Density (dBm)	Limit (dBm)	Result
2402 MHz	-28.503	8	PASS
2440 MHz	-27.841	8	PASS
2480 MHz	-27.445	8	PASS

CH: 2402MHz



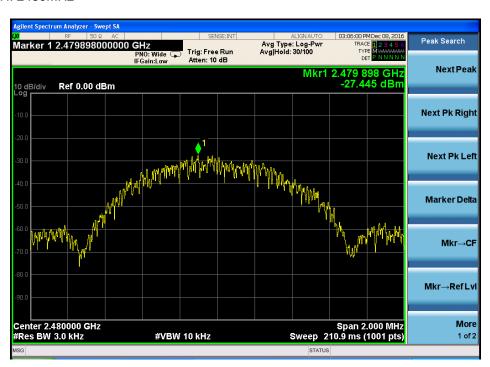




CH: 2440MHz



CH: 2480MHz





8 PEAK OUTPUT POWER TEST

8.1 Test Limit

	Tool Elittik						
	FCC Part15 (15.247) , Subpart C						
Se	ction	Test Item	Limit	Frequency Range (MHz)	Result		
15.24	17(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS		

8.2 Test Procedure

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. The EUT was directly connected to the Power meter.

8.3 Measurement Equipment Used

Same as Radiated Emission Measurement

8.4 Test Result

PASS

All the test modes completed for test

	TX Mode								
Test	Frequency	Maximum Peak Conducted Output Power	LIMIT						
Channe	(MHz)	(dBm)	dBm						
CH01	2402	-1.86	30						
CH20	2440	-1.97	30						
CH40	2480	-2.13	30						





9 CONDUCTED EMISSION TEST

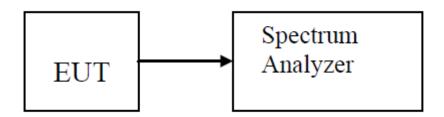
9.1 Test Limit

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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

9.2 Test Procedure

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Set EUT as TX operation and connect directly to the spectrum analyzer.
- 3. Set spectrum analyzer RBW= 100KHz. VBW= 100 KHz
- 4. Set detected by the spectrum analyser with peak detector.

9.3 Test Setup



7.4 Test Result

PASS

All the test modes completed for test.



TX Mode











10 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.

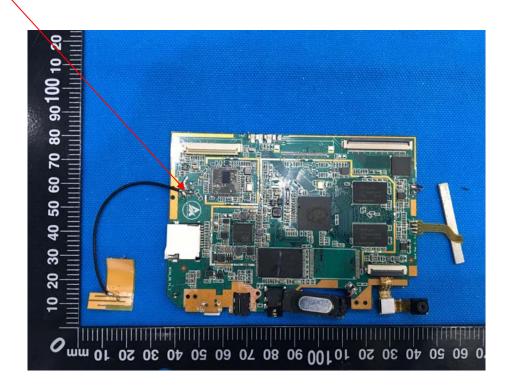
Refer to statement below for compliance.

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 Integral Antenna, The directional gains of antenna used for transmitting is 0dBi.

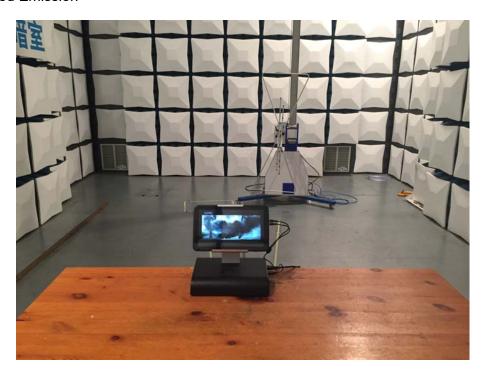
ANTENNA





11 PHOTOGRAPH OF TEST

11.1 Radiated Emission







11.2 Conducted Emission

