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# FCC TEST REPORT

Test report On Behalf of Shenzhen Zidoo Technology Co., Ltd. For SMART TV BOX Model No.: H6 PRO, H6

# FCC ID: 2AGN7-H6PRO

Prepared for : Shenzhen Zidoo Technology Co., Ltd. Room 12 D, Block A CENTRAL GREAT SEARCHINGS, Xixiang Avenue, BaoAn District, Shenzhen, Guangdong, P.R.C. 518100

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 Date of Test:
 Jun. 15, 2017 ~ Jun. 26, 2017

 Date of Report:
 Jun. 26, 2017

 Report Number:
 HK1700615039-E



# **TEST RESULT CERTIFICATION**

Applicant's name	Shenzhen Zidoo Technology Co., Ltd.
Address:	Room 12 D, Block A CENTRAL GREAT SEARCHINGS, Xixiang Avenue, BaoAn District, Shenzhen, Guangdong, P.R.C. 518100
Manufacture's Name:	Shenzhen Zidoo Technology Co., Ltd.
Address:	Room 12 D, Block A CENTRAL GREAT SEARCHINGS, Xixiang Avenue, BaoAn District, Shenzhen, Guangdong, P.R.C. 518100
Product description	
Trade Mark:	zidoo
Product name:	SMART TV BOX
Model and/or type reference :	H6 PRO, H6
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. 15, 2017 ~ Jun. 26, 2017
Date of Issue	Jun. 26, 2017
Test Result	Pass

:

2

Testing Engineer

2m Xie

(Eric Xie)

Technical Manager

Dota Qin

(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	COMPLIANT
RADIATED EMISSION TEST	COMPLIANT
BAND EDGE	COMPLIANT
OCCUPIED BANDWIDTH MEASUREMENT	COMPLIANT
ANTENNA REQUIREMENT	COMPLIANT

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# 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	SMART TV BOX
Model Name	H6 PRO
Serial No	H6
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: H6 PRO.
FCC ID	2AGN7-H6PRO
Antenna Type	Integral Antenna
Antenna Gain	2 dBi
Operation frequency	2402-2480Mhz
Number of Channels	40CH
Modulation Type	GFSK
Power Source	DC5V, 2A From Adapter With AC 120V/60Hz
Power Rating	DC5V, 2A From Adapter With AC 120V/60Hz



# 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

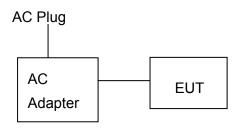
## **Operating Mode**

The mode is used: **Transmitting mode** 

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

# 2.2 DESCRIPTION OF TEST SETUP

Operation of EUT during conducted testing and Radiation and Above1GHz Radiation 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	Feb. 18, 2017	Feb. 17, 2018
27.	Antenna Tripod	Amplifier Reasearch	TP1000A	82 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

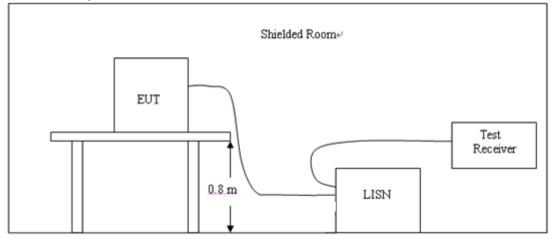
## 3.1 Conducted Power Line Emission Limit

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

Fraguenov	Maximum RF Line Voltage (dBµV)					
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.

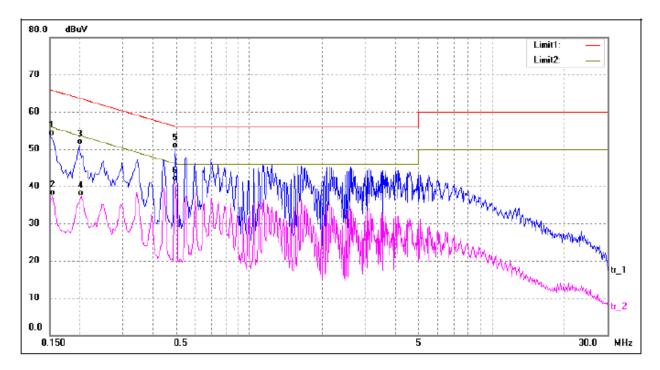
## 3.4 Test Result

#### PASS

All the test modes completed for test.



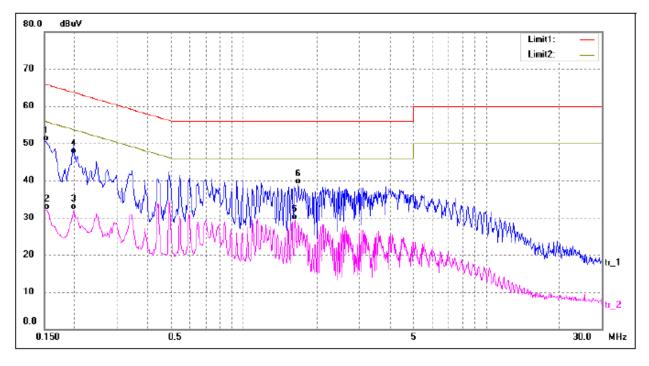
Line



No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV)	(dBuV)	(dB)	
1	0.1500	43.57	9.85	53.42	66.00	-12.58	QP
2	0.1540	27.69	9.85	37.54	55.78	-18.24	AVG
3	0.1980	41.30	9.80	51.10	63.69	-12.59	QP
4	0.2020	27.51	9.80	37.31	53.53	-16.22	AVG
5	0.4940	40.34	9.80	50.14	56.10	-5.96	QP
6*	0.4940	31.48	9.80	41.28	46.10	-4.82	AVG



# Neutral



No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV)	(dBuV)	(dB)	
1*	0.1500	40.63	9.85	50.48	66.00	-15.52	QP
2	0.1540	22.29	9.85	32.14	55.78	-23.64	AVG
3	0.1980	22.30	9.80	32.10	53.69	-21.59	AVG
4	0.1997	37.37	9.80	47.17	63.62	-16.45	QP
5	1.6300	19.56	9.74	29.30	46.00	-16.70	AVG
6	1.6780	29.08	9.74	38.82	56.00	-17.18	QP



# **4 RADIATED EMISSION TEST**

### 4.1 Radiation Limit

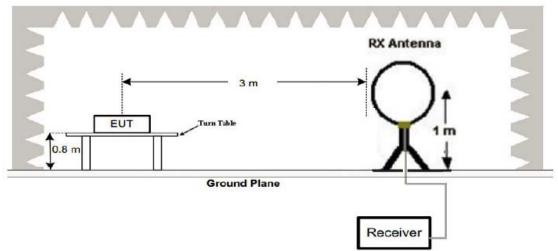
For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

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

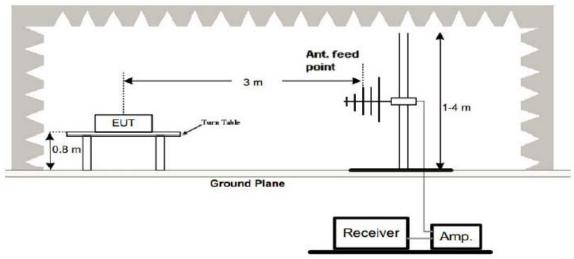
For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

## 4.2 Test Setup

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

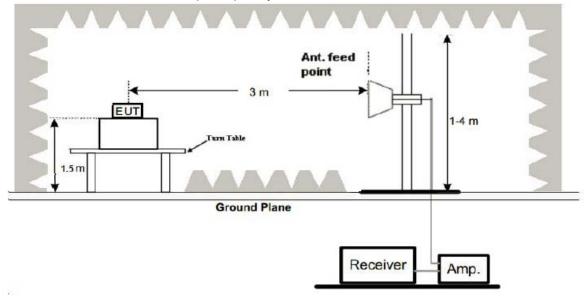


## (2) Radiated Emission Test-Up Frequency 30MHz~1GHz





(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.

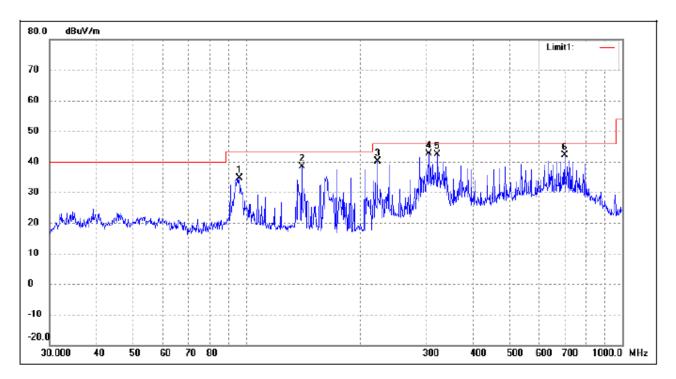
#### 4.4 Test Result

PASS

All the test modes completed for test. The worst case of Radiated Emission below 1 GHz; the test data of this mode was reported.



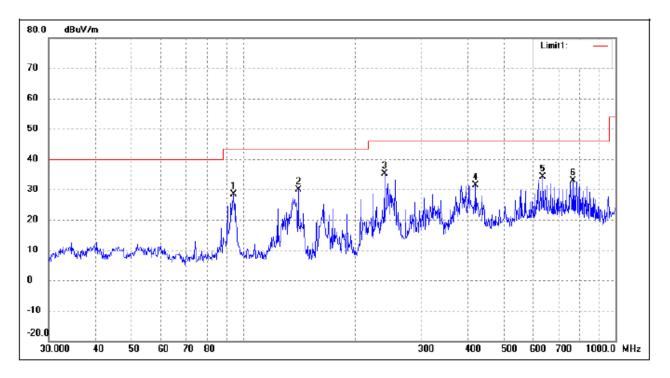
Below 1GHz Test Results: Antenna polarity: H



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	( )	(cm)	
1	95.7622	54.70	-20.19	34.51	43.50	-8.99	327	100	peak
2	140.3420	59.68	-21.35	38.33	43.50	-5.17	93	100	peak
3	222.9501	56.86	-16.66	40.20	46.00	-5.80	120	100	peak
4	305.6800	55.25	-12.53	42.72	46.00	-3.28	111	100	peak
5	322.1886	54.65	-12.38	42.27	46.00	-3.73	281	100	peak
6	701.7609	46.82	-4.76	42.06	46.00	-3.94	262	100	peak



# Antenna polarity: V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	( )	(cm)	
1	94.0979	48.82	-20.44	28.38	43.50	-15.12	212	100	peak
2	140.3421	51.33	-21.35	29.98	43.50	-13.52	100	100	peak
3	239.1473	50.83	-15.60	35.23	46.00	-10.77	181	100	peak
4	420.5803	42.75	-11.32	31.43	46.00	-14.57	95	100	peak
5	636.1340	38.37	-4.15	34.22	46.00	-11.78	163	100	peak
6	768.7482	37.05	-4.10	32.95	46.00	-13.05	274	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 (2402MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2402	112.28	-5.84	106.44	114	-7.56	peak
2402	86.45	-5.84	80.61	94	-13.39	AVG
4804	57.32	-3.64	53.68	74	-20.32	peak
4804	45.71	-3.64	42.07	54	-11.93	AVG
7206	55.26	-0.95	54.31	74	-19.69	peak
7206	41.83	-0.95	40.88	54	-13.12	AVG
Remark: Facto	or = Antenna Fac	tor + Cable Lo	ss – Pre-amplifier.			

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2402	111.76	-5.84	105.92	114	-8.08	peak
2402	85.49	-5.84	79.65	94	-14.35	AVG
4804	56.12	-3.64	52.48	74	-21.52	peak
4804	45.36	-3.64	41.72	54	-12.28	AVG
7206	55.87	-0.95	54.92	74	-19.08	peak
7206	40.55	-0.95	39.6	54	-14.4	AVG

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



# CH Middle (2440MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2440	110.59	-5.71	104.88	114	-9.12	peak
2440	85.43	-5.71	79.72	94	-14.28	AVG
4880	56.71	-3.51	53.2	74	-20.8	peak
4880	45.28	-3.51	41.77	54	-12.23	AVG
7320	53.64	-0.82	52.82	74	-21.18	peak
7320	39.16	-0.82	38.34	54	-15.66	AVG
Remark: Facto	or = Antenna Fac	tor + Cable Lo	ss – Pre-amplifier.			

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2440	109.67	-5.71	103.96	114	-10.04	peak
2440	84.43	-5.71	78.72	94	-15.28	AVG
4880	55.16	-3.51	51.65	74	-22.35	peak
4880	45.82	-3.51	42.31	54	-11.69	AVG
7320	52.64	-0.82	51.82	74	-22.18	peak
7320	36.99	-0.82	36.17	54	-17.83	AVG
Remark: Facto	or = Antenna Fac	tor + Cable Lo	ss – Pre-amplifier.			



Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2480	108.62	-5.65	102.97	114	-11.03	peak
2480	82.35	-5.65	76.7	94	-17.3	AVG
4960	54.19	-3.43	50.76	74	-23.24	peak
4960	44.27	-3.43	40.84	54	-13.16	AVG
7440	53.06	-0.75	52.31	74	-21.69	peak
7440	38.44	-0.75	37.69	54	-16.31	AVG

Antenna Factor + Cable Loss Pre-amplifier. emark. Factor

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2480	107.81	-5.65	102.16	114	-11.84	peak
2480	84.35	-5.65	78.7	94	-15.3	AVG
4960	55.48	-3.43	52.05	74	-21.95	peak
4960	42.13	-3.43	38.7	54	-15.3	AVG
7440	53.66	-0.75	52.91	74	-21.09	peak
7440	37.24	-0.75	36.49	54	-17.51	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

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.

#### 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

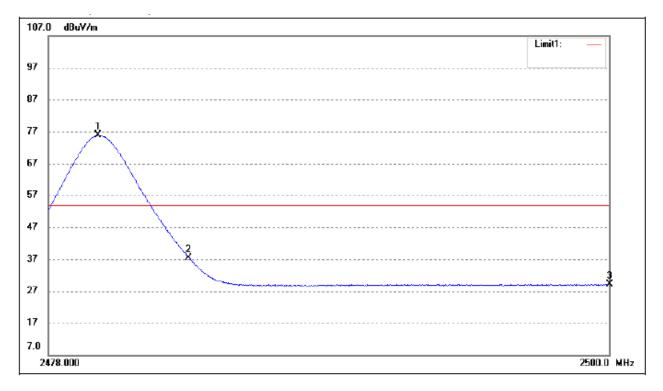
Restricted Bandedge (Radiated) Lowest Bandedge-BLE Horizontal (Worst case)

107.0	) dBuV/m	
		Limit1: —
97		
87		
77		A
67		
57		
47		
37		
27	2 2	
17		
7.0		
23	10.000	2410.0 MH

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	33.55	-3.35	30.20	54.00	-23.80	Average Detector
	2310.000	46.48	-3.35	43.13	74.00	-30.87	Peak Detector
2	2390.000	33.35	-4.29	29.06	54.00	-24.94	Average Detector
	2390.000	46.17	-4.29	41.88	74.00	-32.12	Peak Detector



Highest Bandedge-BLE Horizontal (Worst case)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2479.950	80.16	-4.36	75.80	1	1	Average Detector
	2479.709	85.85	-4.36	81.49	1	1	Peak Detector
2	2483.500	41.74	-4.36	37.38	54.00	-16.62	Average Detector
	2483.500	49.47	-4.36	45.11	74.00	-28.89	Peak Detector
3	2500.000	33.47	-4.34	29.13	54.00	-24.87	Average Detector
	2500.000	46.21	-4.34	41.87	74.00	-32.13	Peak Detector



# 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 0.8m above ground plane.
  - 2. Set EUT as normal operation.
  - 3. Based on FCC Part15 C Section 15.249(a): RBW= 100KHz. VBW= 300 KHz, Span=3MHz.
  - 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
2402 MHz	718.793	PASS
2440 MHz	725.223	PASS
2480 MHz	722.189	PASS

#### CH: 2402MHz

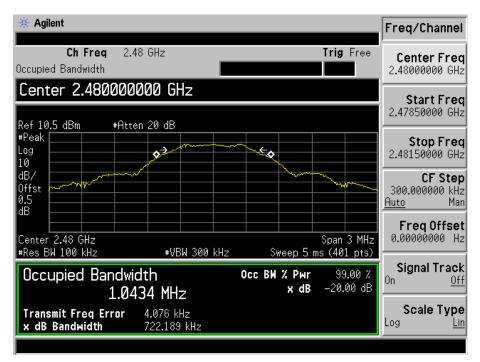
* Agilent	Freq/Channel
Ch Freq 2.402 GHz Trig Free Occupied Bandwidth	Center Freq 2.40200000 GHz
Center 2.402000000 GHz Ref 10.5 dBm #Atten 20 dB	Start Freq 2.40050000 GHz
#Peak Log 10	<b>Stop Freq</b> 2.40350000 GHz
dB/ Offst dB	<b>CF Step</b> 300.000000 kHz <u>Auto</u> Man
Center 2.402 GHz Span 3 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 5 ms (401 pts)	FreqOffset 0.00000000 Hz
Occupied Bandwidth         осс вм % Рыг         99.00 %           1.0566 MHz         × dB         -20.00 dB	<b>Signal Track</b> On <u>Off</u>
Transmit Freq Error2.825 kHzx dB Bandwidth718.793 kHz	Scale Type Log <u>Lin</u>



CH: 2440MHz

* Agilent		Freq/Channel
Ch Freq 2.44 GHz Occupied Bandwidth	Trig Free	Center Freq 2.44000000 GHz
Center 2.440000000 GHz		Start Freq
Ref 10.5 dBm #Atten 20 dB		2.43850000 GHz
*Peak Log 10	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<b>Stop Freq</b> 2.44150000 GHz
dB/ 0ffst 0.5 dB		<b>CF Step</b> 300.000000 kHz <u>Auto</u> Man
Center 2.44 GHz #Res BW 100 kHz #VBW 300 kHz	Span 3 MHz Sweep 5 ms (401 pts)	Freq Offset 0.00000000 Hz
Occupied Bandwidth 1.0537 MHz	Осс ВМ % Рмг 99.00 % х dB -20.00 dB	<b>Signal Track</b> On <u>Off</u>
Transmit Freq Error 2.790 kHz x dB Bandwidth 725.223 kHz		<b>Scale Type</b> Log <u>Lin</u>

#### CH: 2480MHz





# 7 ANTENNA REQUIREMENT

#### **Standard Applicable**

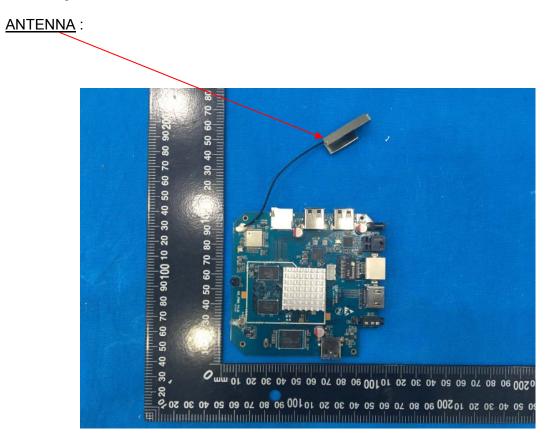
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.249, if transmitting antennas of directional gain 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 Integral Antenna, The directional gains of antenna used for transmitting is 2dBi.

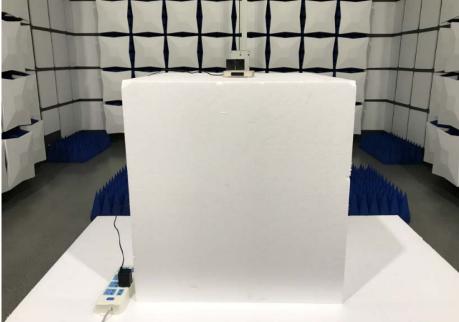




# 8 PHOTOGRAPH OF TEST

# 8.1 Radiated Emission







# 8.2 Conducted Emission

