



Report No.: TWN2505869-02E  
Applicant: PC-coolers SRL  
Product: AQIRYS AGENA Wireless Gaming Keyboard  
Model No.: AGENA, AGENAW, AGENAWWH, AGENAWBK, ST-MK18W  
Trademark: AQIRYS

Test Standards: FCC Part 15.249

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10 & FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of electromagnetic compatibility

Approved By

Terry Tang

Manager

Dated: June 18, 2025

**Results appearing herein relate only to the sample tested**  
**The technical reports is issued errors and omissions exempt and is subject to withdrawal at**

**SHENZHEN TIMEWAY TESTING LABORATORIES**

**Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China**

**Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com**



## Special Statement:

### **FCC-Registration No.: 744189**

The 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 No.: 744189.

### **Industry Canada (IC) —Registration No.:5205A**

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

### **A2LA (Certification Number:5013.01)**

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

### **CAB identifier: CN0033**

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## Test Report Conclusion

### Content

<b>1.0</b>	<b>General Details</b>	4
1.1	Test Lab Details	4
1.2	Applicant Details	4
1.3	Description of EUT	4
1.4	Submitted Sample	4
1.5	Test Duration	5
1.6	Test Uncertainty	5
1.7	Test By	5
<b>2.0</b>	<b>List of Measurement Equipment</b>	6
<b>3.0</b>	<b>Technical Details</b>	7
3.1	Summary of Test Results	7
3.2	Test Standards	7
<b>4.0</b>	<b>EUT Modification</b>	7
<b>5.0</b>	<b>Power Line Conducted Emission Test</b>	8
5.1	Schematics of the Test	8
5.2	Test Method and Test Procedure	8
5.3	Configuration of the EUT	8
5.4	EUT Operating Condition	9
5.5	Conducted Emission Limit	9
5.6	Test Result	9
<b>6.0</b>	<b>Radiated Emission test</b>	12
6.1	Test Method and Test Procedure	12
6.2	Configuration of the EUT	13
6.3	EUT Operation Condition	13
6.4	Radiated Emission Limit	13
6.5	Test Result	15
<b>7.0</b>	<b>Band Edge</b>	23
7.1	Test Method and Test Procedure	23
7.2	Radiated Test Setup	23
7.3	Configuration of the EUT	23
7.4	EUT Operating Condition	23
7.5	Band Edge Limit	23
7.6	Band Edge Test Result	24
<b>8.0</b>	<b>Antenna Requirement</b>	28
<b>9.0</b>	<b>20dB bandwidth measurement</b>	29
<b>10.0</b>	<b>FCC ID Label</b>	33
<b>11.0</b>	<b>Photo of Test Setup and EUT View</b>	34

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## 1.0 General Details

### 1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.  
Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China  
Telephone: (755) 83448688  
Fax: (755) 83442996  
Site on File with the Federal Communications Commission – United States  
Registration Number: 744189  
For 3m Anechoic Chamber

### 1.2 Applicant Details

Applicant: PC-coolers SRL  
Address: MATEI BASARAB STR, NO.98, 3RD DISTRICT, BUCHAREST Romania

### 1.3 Description of EUT

Product:	AQIRYS AGENA Wireless Gaming Keyboard
Manufacturer:	PC-coolers SRL
Address:	MATEI BASARAB STR, NO.98, 3RD DISTRICT, BUCHAREST Romania
Trademark:	AQIRYS
Model Number:	AGENA
Additional Model Name	AGENAW, AGENAWWH, AGENAWBK, ST-MK18W
Rating:	Input: DC5V, 1A
Battery:	DC3.7V, 2000mAh Li-ion battery
Hardware Version:	V1.2
Software Version:	V1.0
Serial No.:	N/A
Operation Frequency:	2402-2480MHz
Modulation Type:	GFSK
Number of Channels:	79
Channel Separation:	1MHz
Antenna Designation	PCB antenna with gain 2.34dBi maximum (Declared by the Manufacturer)

### 1.4 Submitted Sample: 2 Samples

### 1.5 Test Duration

2025-05-26 to 2025-06-18

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#### 1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

Conducted Emissions Uncertainty =3.6dB

Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

#### 1.7 Test Engineer

The sample tested by \_\_\_\_\_

A handwritten signature in black ink that reads "Andy Xing".

Print Name: Andy Xing

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100253	2024-07-12	2025-07-11
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2024-07-12	2025-07-11
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2024-07-12	2025-07-11
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2025-07-17
Power meter	Anritsu	ML2487A	6K00003613	2024-07-12	2025-07-11
Power sensor	Anritsu	MA2491A	32263	2024-07-12	2025-07-11
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17
9*6*6 Anechoic	--	--	N/A	2022-07-26	2025-07-25
EMI Test Receiver	RS	ESVB	826156/011	2024-07-12	2025-07-11
EMI Test Receiver	RS	ESCS 30	834115/006	2024-07-12	2025-07-11
Spectrum	HP/Agilent	E4407B	MY50441392	2024-07-12	2025-07-11
Spectrum	RS	FSP	1164.4391.38	2024-07-12	2025-07-11
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	--	2024-07-12	2025-07-11
RF Cable	Zhengdi	7m	--	2024-07-12	2025-07-11
Pre-Amplifier	Schwarebeck	BBV9743	#218	2024-07-12	2025-07-11
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2024-07-12	2025-07-11
LISN	SCHAFFNER	NNB42	00012	2024-07-12	2025-07-11
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11

## 2.2 Automation Test Software

For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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### 3.0 Technical Details

#### 3.1 Summary of test results

<b>The EUT has been tested according to the following specifications:</b>			
<b>Standard</b>	<b>Test Type</b>	<b>Result</b>	<b>Notes</b>
<b>FCC Part 15, Paragraph 15.203</b>	<b>Antenna Requirement</b>	<b>Pass</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.207</b>	<b>Conducted Emission Test</b>	<b>Pass</b>	<b>Complies</b>
<b>FCC Part 15 Subpart C Paragraph 15.249(a) &amp; 15.249(b) Limit</b>	<b>Field Strength of Fundamental</b>	<b>Pass</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.209</b>	<b>Radiated Emission Test</b>	<b>Pass</b>	<b>Complies</b>
<b>FCC Part 15 Subpart C Paragraph 15.249(d) Limit</b>	<b>Band Edge Test</b>	<b>Pass</b>	<b>Complies</b>
<b>FCC Part 15.215(c)</b>	<b>20dB bandwidth</b>	<b>Pass</b>	<b>Complies</b>

#### 3.2 Test Standards

**FCC Part 15 Subpart C, Paragraph 15.249, ANSI C63.4 :2014 and ANSI C63.10 :2013**

#### 4.0 EUT Modification

**No modification by SHENZHEN TIMEWAY TESTING LABORATORIES**

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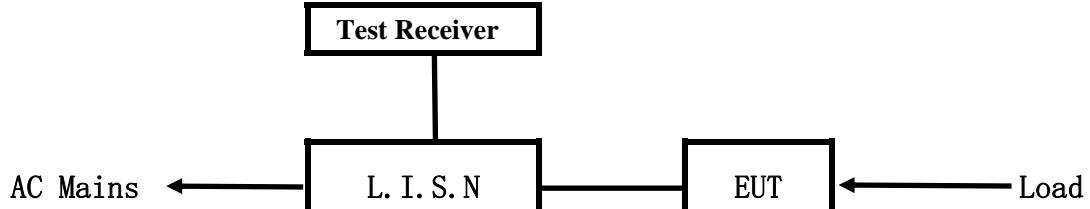
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## 5.0 Power Line Conducted Emission Test

### 5.1 Schematics of the test



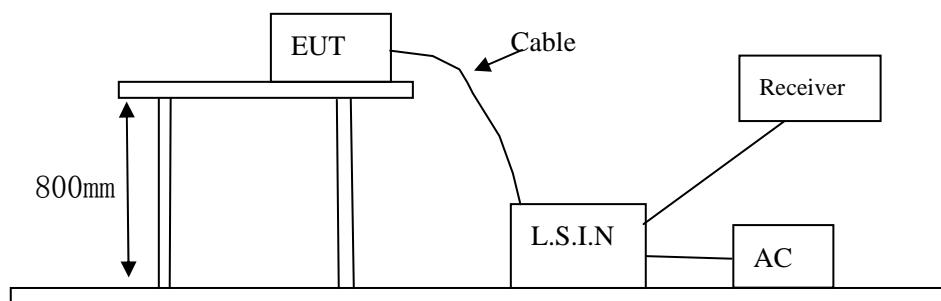
EUT: Equipment Under Test

### 5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10-2013.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



### 5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

#### A. EUT

Device	Manufacturer	Model	FCC ID
AQIRYS AGENA Wireless Gaming Keyboard	PC-coolers SRL	AGENA, AGENAW, AGENAWWH, AGENAWBK, ST-MK18W	2BG42-AGENA

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B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	Xiaomi	CDQ02ZM	Input: 100-240V~, 50/60Hz, 1.2A; Output: DC5V, 3A; DC9V, 3A; DC12V, 3A; DC15V, 3A; DC20V, 2.25A;

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013

A Setup the EUT and simulators as shown on follow  
B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency (MHz)	Limits (dB $\mu$ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	56.0	46.0
5.00 ~ 30.00	60.0	50.0

Notes: 1. \*Decreasing linearly with logarithm of frequency.  
2. The tighter limit shall apply at the transition frequencies

5.6 Test Results:

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**A: Conducted Emission on Live Terminal (150kHz to 30MHz)**

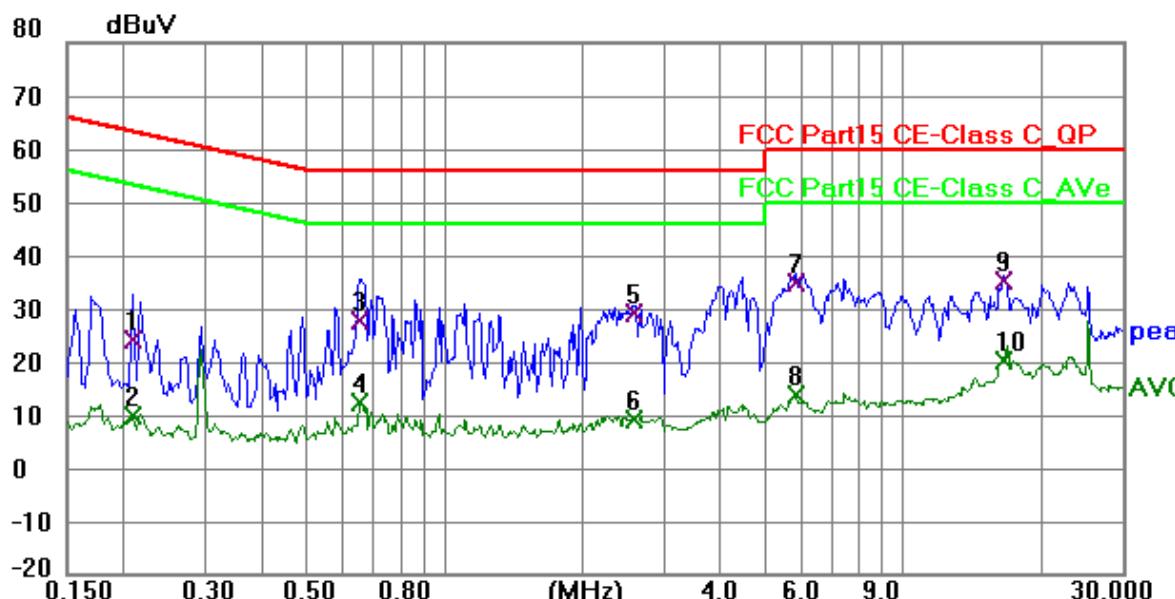
**EUT Operating Environment**

Temperature: 25°C      Humidity: 65%RH      Atmospheric Pressure: 101 kPa

**EUT set Condition: Charging + Communication by BT**

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2085	13.89	10.32	24.21	63.26	-39.05	QP	P
2	0.2085	-0.34	10.32	9.98	53.26	-43.28	AVG	P
3	0.6531	17.17	10.45	27.62	56.00	-28.38	QP	P
4	0.6531	2.01	10.45	12.46	46.00	-33.54	AVG	P
5	2.5807	17.57	11.53	29.10	56.00	-26.90	QP	P
6	2.5807	-2.58	11.53	8.95	46.00	-37.05	AVG	P
7	5.8080	22.17	12.52	34.69	60.00	-25.31	QP	P
8	5.8080	1.19	12.52	13.71	50.00	-36.29	AVG	P
9	16.5525	19.69	15.54	35.23	60.00	-24.77	QP	P
10	16.5525	4.51	15.54	20.05	50.00	-29.95	AVG	P

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## B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

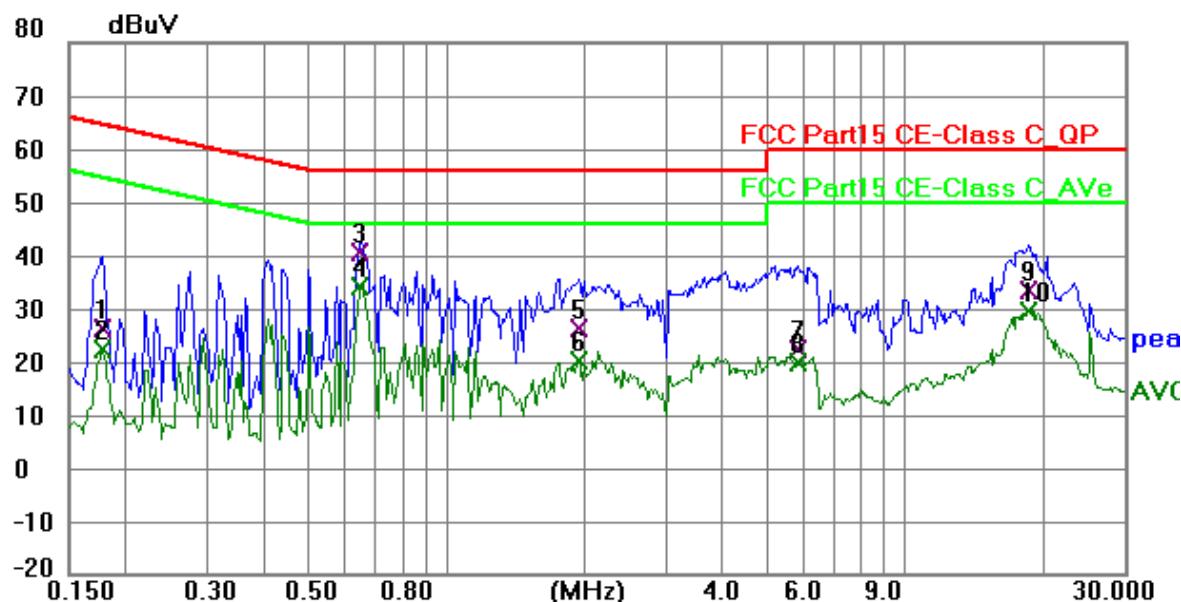
### EUT Operating Environment

Temperature: 25°C      Humidity: 65%RH      Atmospheric Pressure: 101 kPa

### EUT set Condition: Charging + Communication by BT

#### Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1773	16.01	10.33	26.34	64.61	-38.27	QP	P
2	0.1773	12.02	10.33	22.35	54.61	-32.26	AVG	P
3	0.6492	30.12	10.44	40.56	56.00	-15.44	QP	P
4	0.6492	23.74	10.44	34.18	46.00	-11.82	AVG	P
5	1.9401	15.13	11.27	26.40	56.00	-29.60	QP	P
6	1.9401	8.80	11.27	20.07	46.00	-25.93	AVG	P
7	5.8431	9.87	12.53	22.40	60.00	-37.60	QP	P
8	5.8431	7.13	12.53	19.66	50.00	-30.34	AVG	P
9	18.5181	17.36	16.05	33.41	60.00	-26.59	QP	P
10	18.5181	13.24	16.05	29.29	50.00	-20.71	AVG	P

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## 6 Radiated Emission Test

### 6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 9kHz to 25 GHz was investigated. The frequency spectrum is set as follows:

Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

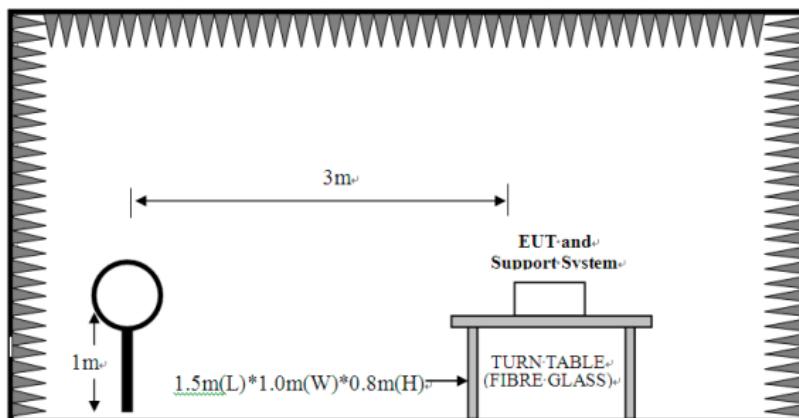
(Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz).

Measurements were made at 3 meters.

- (4) The antenna height is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.

### Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



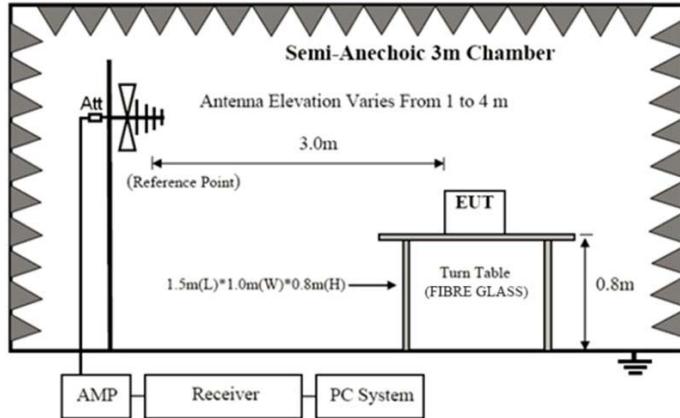
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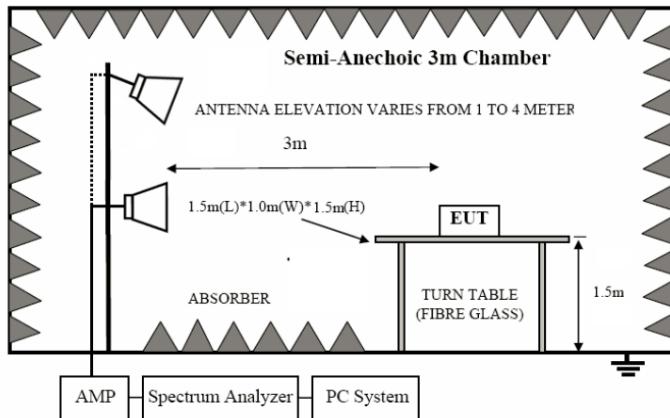
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For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



#### 6.2 Configuration of the EUT

Same as section 5.3 of this report

#### 6.3 EUT Operating Condition

Same as section 5.4 of this report.

#### 6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

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.

#### A FCC Part 15 Subpart C Paragraph 15.249(a) Limit

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Fundamental Frequency (MHz)	Field Strength of Fundamental (3m)			Field Strength of Harmonics (3m)		
	<b>mV/m</b>	<b>dBuV/m</b>		<b>uV/m</b>	<b>dBuV/m</b>	
2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)

Note:

1. RF Field Strength (dBuV) =  $20 \log_{10} \text{RF Voltage (uV)}$
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

**B. Frequencies in restricted band are complied to limit on Paragraph 15.209.**

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
0.009-0.490	3	$20\log_{10}(2400/F(\text{kHz})) + 40\log_{10}(300/3)$
0.490-1.705	3	$20\log_{10}(24000/F(\text{kHz})) + 40\log_{10}(30/3)$
1.705-30	3	69.5
30-80	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

1. RF Voltage (dBuV) =  $20 \log_{10} \text{RF Voltage (uV)}$
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
4. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz. As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.
5. Battery fully charged was used during the test.

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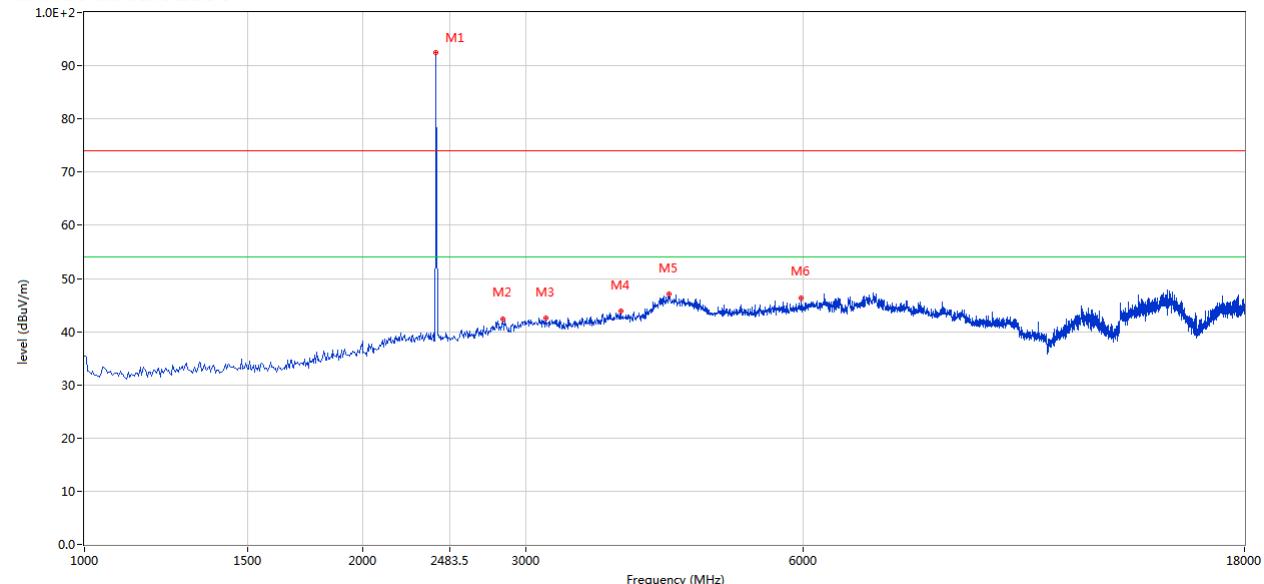
## 6.5 Test result

### A Fundamental & Harmonics Radiated Emission Data

Please refer to the following test plots for details: Low Channel-2402MHz

#### Horizontal

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	92.45	-3.57	114.0	-21.55	Peak	228.00	100	Horizontal	Pass
2	2835.541	42.29	-2.69	74.0	-31.71	Peak	90.00	100	Horizontal	Pass
3	3154.211	42.53	-2.07	74.0	-31.47	Peak	249.00	100	Horizontal	Pass
4	3804.299	43.89	0.33	74.0	-30.11	Peak	50.00	100	Horizontal	Pass
5	4288.678	47.06	1.81	74.0	-26.94	Peak	228.00	100	Horizontal	Pass
6	5967.008	46.24	3.79	74.0	-27.76	Peak	39.00	100	Horizontal	Pass

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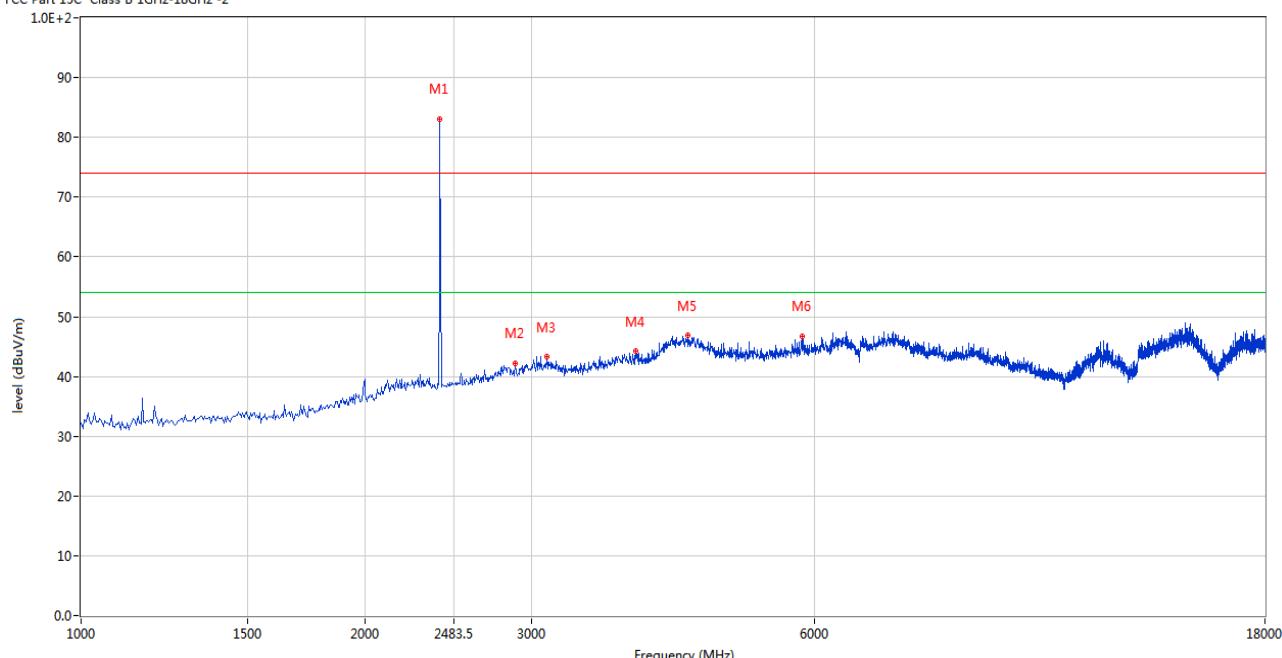
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## Vertical

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	83.12	-3.57	114.0	-30.88	Peak	88.00	100	Vertical	Pass
2	2886.528	42.20	-2.68	74.0	-31.80	Peak	41.00	100	Vertical	Pass
3	3120.220	43.36	-2.15	74.0	-30.64	Peak	214.00	100	Vertical	Pass
4	3876.531	44.20	0.70	74.0	-29.80	Peak	296.00	100	Vertical	Pass
5	4403.399	46.84	2.01	74.0	-27.16	Peak	10.00	100	Vertical	Pass
6	5814.046	46.72	3.83	74.0	-27.28	Peak	41.00	100	Vertical	Pass

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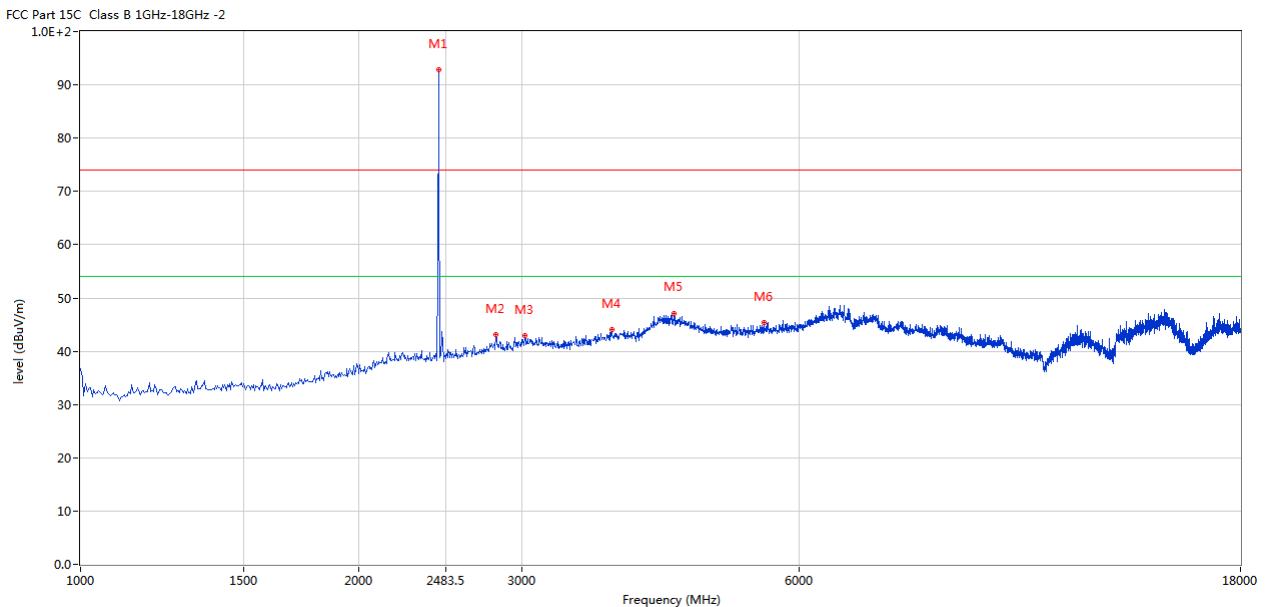
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Please refer to the following test plots for details: Middle Channel-2441MHz

### Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2441	92.78	-3.57	114.0	-21.22	Peak	164.00	100	Horizontal	Pass
2	2814.296	43.07	-2.69	74.0	-30.93	Peak	128.00	100	Horizontal	Pass
3	3026.743	42.84	-2.52	74.0	-31.16	Peak	75.00	100	Horizontal	Pass
4	3757.561	44.04	0.08	74.0	-29.96	Peak	258.00	100	Horizontal	Pass
5	4386.403	47.11	1.98	74.0	-26.89	Peak	360.00	100	Horizontal	Pass
6	5486.878	45.42	3.89	74.0	-28.58	Peak	118.00	100	Horizontal	Pass

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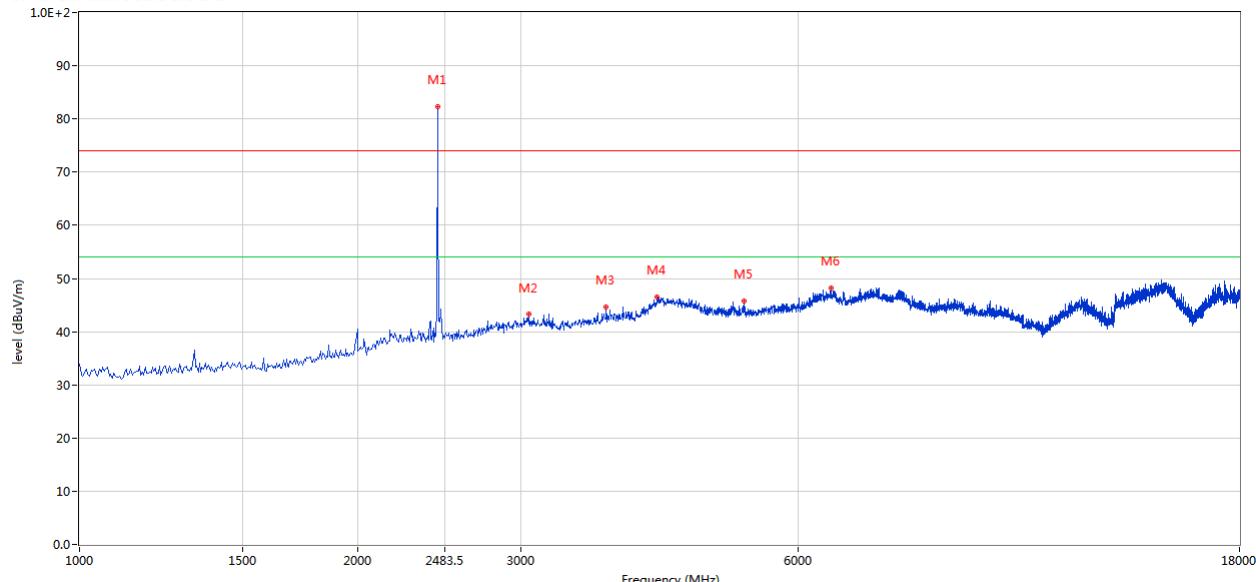
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## Vertical

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2441	82.27	-3.57	114.0	-31.73	Peak	297.00	100	Vertical	Pass
2	3060.735	43.22	-2.37	74.0	-30.78	Peak	360.00	100	Vertical	Pass
3	3715.071	44.60	-0.14	74.0	-29.40	Peak	64.00	100	Vertical	Pass
4	4216.446	46.52	1.64	74.0	-27.48	Peak	302.00	100	Vertical	Pass
5	5231.942	45.77	3.59	74.0	-28.23	Peak	80.00	100	Vertical	Pass
6	6506.623	48.26	5.79	74.0	-25.74	Peak	107.00	100	Vertical	Pass

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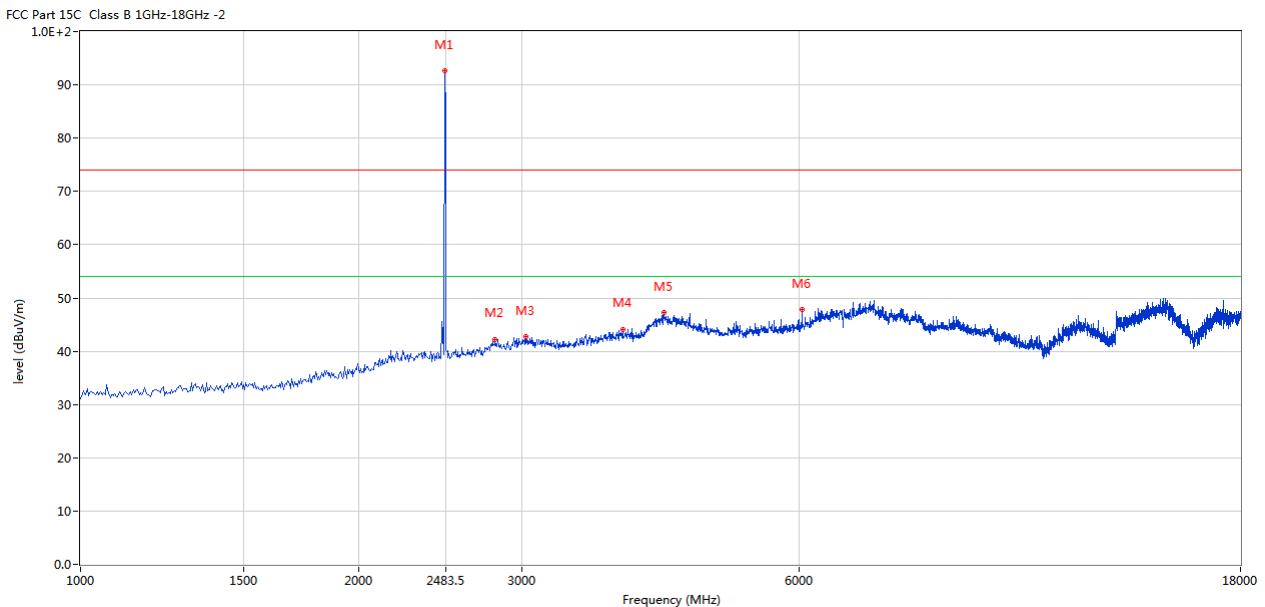
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Please refer to the following test plots for details: High Channel-2480MHz

### Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	92.61	-3.57	114.0	-21.39	Peak	119.00	100	Horizontal	Pass
2	2810.047	42.13	-2.69	74.0	-31.87	Peak	211.00	100	Horizontal	Pass
3	3035.241	42.81	-2.48	74.0	-31.19	Peak	243.00	100	Horizontal	Pass
4	3859.535	44.05	0.61	74.0	-29.95	Peak	89.00	100	Horizontal	Pass
5	4275.931	47.20	1.78	74.0	-26.80	Peak	104.00	100	Horizontal	Pass
6	6034.991	47.83	3.92	74.0	-26.17	Peak	22.00	100	Horizontal	Pass

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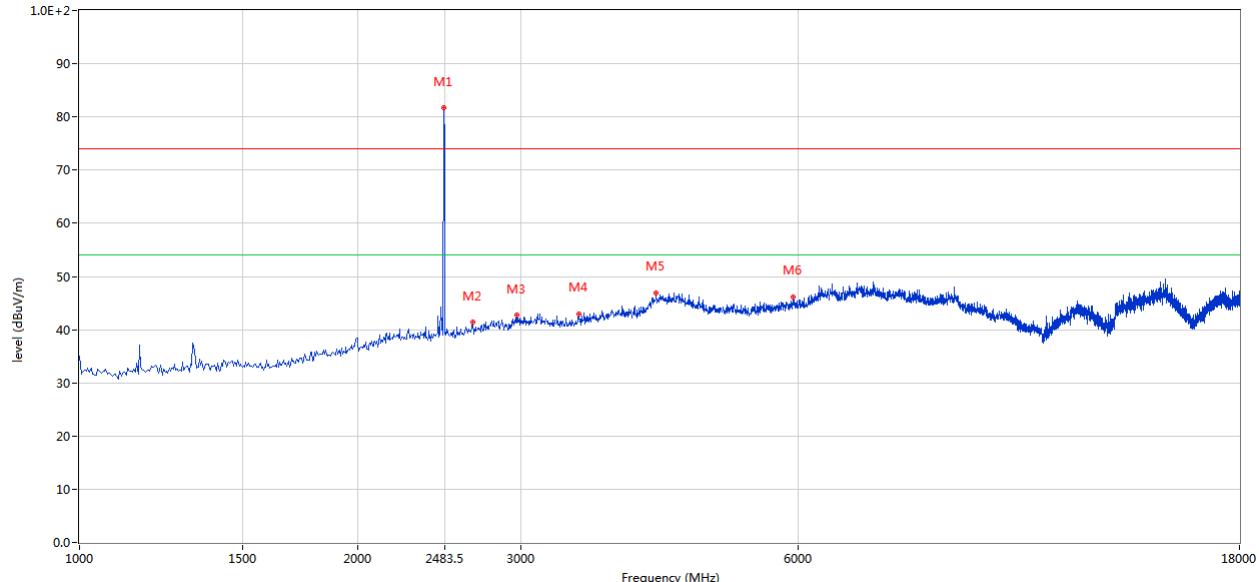
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## Vertical

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	81.75	-3.57	114.0	-32.25	Peak	83.00	100	Vertical	Pass
2	2665.584	41.38	-3.08	74.0	-32.62	Peak	165.00	100	Vertical	Pass
3	2975.756	42.78	-2.65	74.0	-31.22	Peak	11.00	100	Vertical	Pass
4	3472.882	42.89	-1.28	74.0	-31.11	Peak	99.00	100	Vertical	Pass
5	4207.948	46.91	1.62	74.0	-27.09	Peak	275.00	100	Vertical	Pass
6	5924.519	46.20	3.81	74.0	-27.80	Peak	265.00	100	Vertical	Pass

Note:

- (1) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier
- (2) Margin=Emission-Limits
- (3) According to section 15.35(b), the peak limit is 20dB higher than the average limit
- (4) For test purpose, keep EUT continuous transmitting
- (5) For emission above 18GHz and Below 30MHz, It is only the floor noise and less than the limit for more than 20dB. No necessary to take down.
- (6) the measured PK value less than the AV limit.

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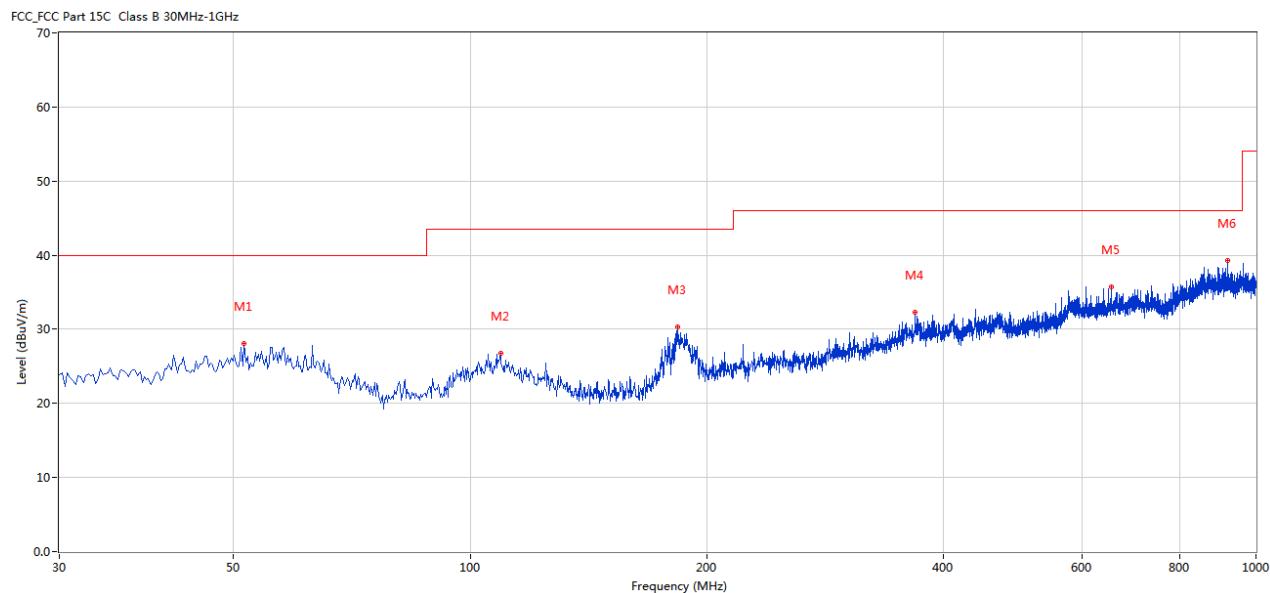
## B. General Radiated Emission Data

### Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	51.577	28.10	-4.90	40.0	11.90	Peak	340.00	100	Horizontal	Pass
2	109.278	26.73	-5.98	43.5	16.77	Peak	35.00	100	Horizontal	Pass
3	183.464	30.28	-7.33	43.5	13.22	Peak	285.00	100	Horizontal	Pass
4	368.203	32.29	-1.70	46.0	13.71	Peak	43.00	100	Horizontal	Pass
5	653.797	35.70	2.11	46.0	10.30	Peak	242.00	100	Horizontal	Pass
6	919.753	39.34	5.55	46.0	6.66	Peak	0.00	100	Horizontal	Pass

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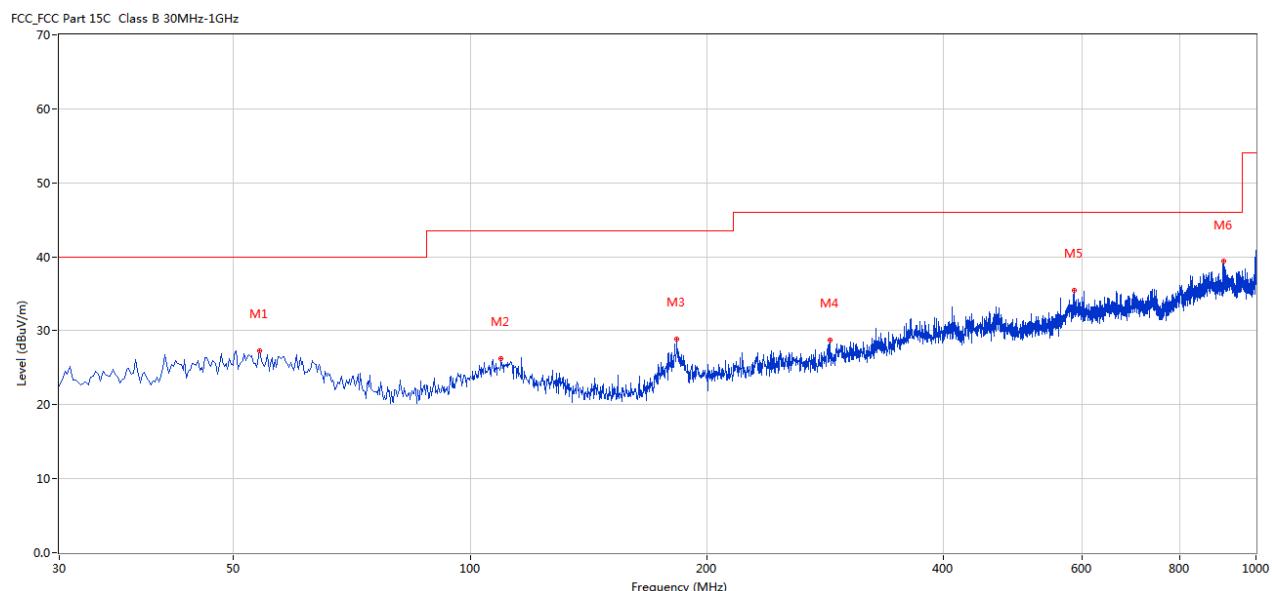


### Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	54.002	27.28	-5.20	40.0	12.72	Peak	75.00	100	Vertical	Pass
2	109.520	26.19	-5.98	43.5	17.31	Peak	306.00	100	Vertical	Pass
3	183.222	28.87	-7.35	43.5	14.63	Peak	224.00	100	Vertical	Pass
4	287.228	28.78	-4.50	46.0	17.22	Peak	152.00	100	Vertical	Pass
5	587.611	35.44	1.55	46.0	10.56	Peak	211.00	100	Vertical	Pass
6	909.813	39.36	5.19	46.0	6.64	Peak	261.00	100	Vertical	Pass

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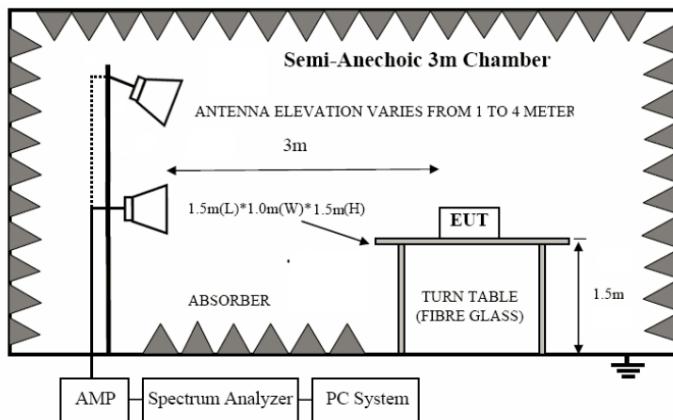


## 7. Band Edge

### 7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) Set Spectrum as RBW=1MHz, VBW=3MHz and Peak detector used for PK value. RBW=1MHz, VBW=10Hz and Peak detector used for AV value.
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

### 7.2 Radiated Test Setup



For the actual test configuration, please refer to the related items – Photos of Testing

### 7.3 Configuration of the EUT

Same as section 5.3 of this report

### 7.4 EUT Operating Condition

Same as section 5.4 of this report.

### 7.5 Band Edge Limit

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 Section 15.209, whichever is the lesser attenuation.

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## 7.6 Test Result

Product:	AQIRYS AGENA Wireless Gaming Keyboard	Polarity	Horizontal							
Mode	Keeping Transmitting	Test Voltage	DC3.7V							
Temperature	24 deg. C,	Humidity	56% RH							
Test Result:	Pass	--	--							
FCC Part 15C Class B 1GHz-18GHz -2 										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402.312	90.37	-3.57	74.0	16.37	Peak	190.00	100	Horizontal	N/A
2	2400.000	68.50	-3.57	74.0	-5.50	Peak	155.78	100	Horizontal	Pass
2**	2400.000	53.24	-3.57	54.0	-0.76	AV	155.78	100	Horizontal	Pass
3	2390.000	36.96	-3.53	74.0	-37.04	Peak	149.00	100	Horizontal	Pass

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Product:	AQIRYS AGENA Wireless Gaming Keyboard	Detector	Vertical							
Mode	Keeping Transmitting	Test Voltage	DC3.7V							
Temperature	24 deg. C,	Humidity	56% RH							
Test Result:	Pass	--	--							
FCC Part 15C Class B 1GHz-18GHz -2										
No.	Frequency (MHz)	Results (dBmV/m)	Factor (dB)	Limit (dBmV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402.352	81.96	-3.57	74.0	7.96	Peak	299.00	100	Vertical	N/A
2	2400.000	59.86	-3.57	74.0	-14.14	Peak	113.89	100	Vertical	Pass
2**	2400.000	45.04	-3.57	54.0	-8.96	AV	113.89	100	Vertical	Pass
3	2390.000	41.80	-3.53	74.0	-32.20	Peak	0.00	100	Vertical	Pass
4	2396.283	44.42	-3.55	74.0	-29.58	Peak	0.00	100	Vertical	Pass

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Product:	AQIRYS AGENA Wireless Gaming Keyboard			Polarity	Horizontal					
Mode	Keeping Transmitting			Test Voltage	DC3.7V					
Temperature	24 deg. C,			Humidity	56% RH					
Test Result:	Pass			--	--					
FCC Part 15C Class B 1GHz-18GHz -2 										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480.205	91.60	-3.57	74.0	17.60	Peak	111.00	100	Horizontal	N/A
2	2483.500	55.22	-3.57	74.0	-18.78	Peak	113.86	100	Horizontal	Pass
2**	2483.500	40.63	-3.57	54.0	-13.37	AV	113.86	100	Horizontal	Pass

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Product:	AQIRYS AGENA Wireless Gaming Keyboard		Detector	Vertical						
Mode	Keeping Transmitting		Test Voltage	DC3.7V						
Temperature	24 deg. C,		Humidity	56% RH						
Test Result:	Pass		--	--						
FCC Part 15C Class B 1GHz-18GHz -2 										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480.152	81.29	-3.57	74.0	7.29	Peak	36.00	100	Vertical	N/A
2	2483.500	44.06	-3.57	74.0	-29.94	Peak	41.00	100	Vertical	Pass

Note: The PK emission level less than the AV limit. No necessary to record the AV emission level.

The report refers only to the sample tested and does not apply to the bulk.

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## 8.0 Antenna Requirement

### Applicable Standard

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

This product has a PCB antenna with gain 2.34dBi maximum. It fulfills the requirement of this section.

Test Result: Pass

The report refers only to the sample tested and does not apply to the bulk.

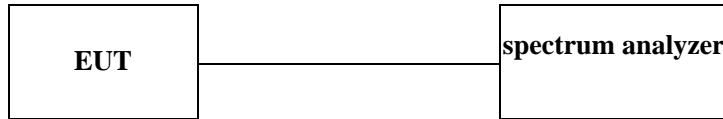
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## 9.0 20dB Bandwidth Measurement

### Test Configuration



### Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW.

The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

### Limit

N/A

The report refers only to the sample tested and does not apply to the bulk.

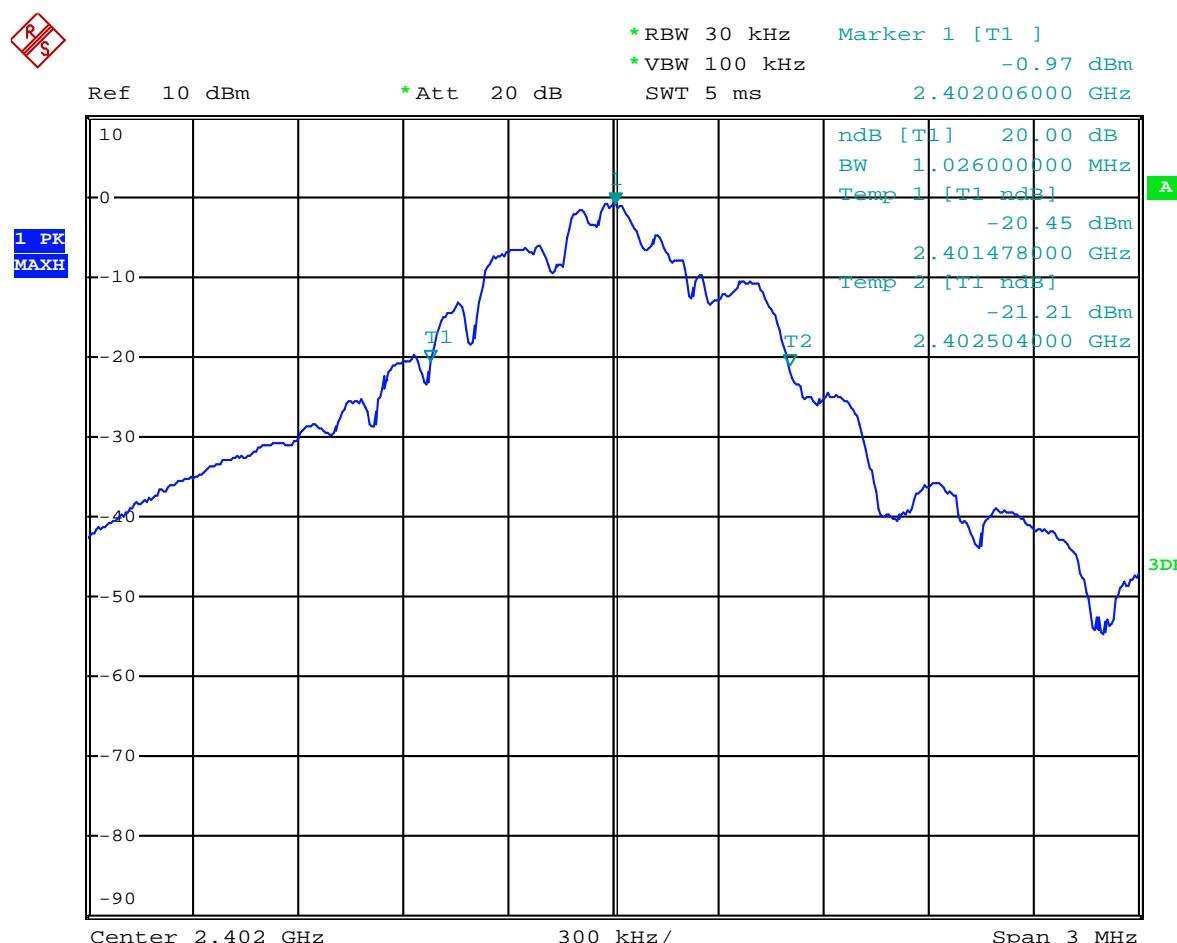
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## Test Result

Product:	AQIRYS AGENA Wireless Gaming Keyboard	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1026MHz	--	--



Date: 12.JUN.2025 12:34:23

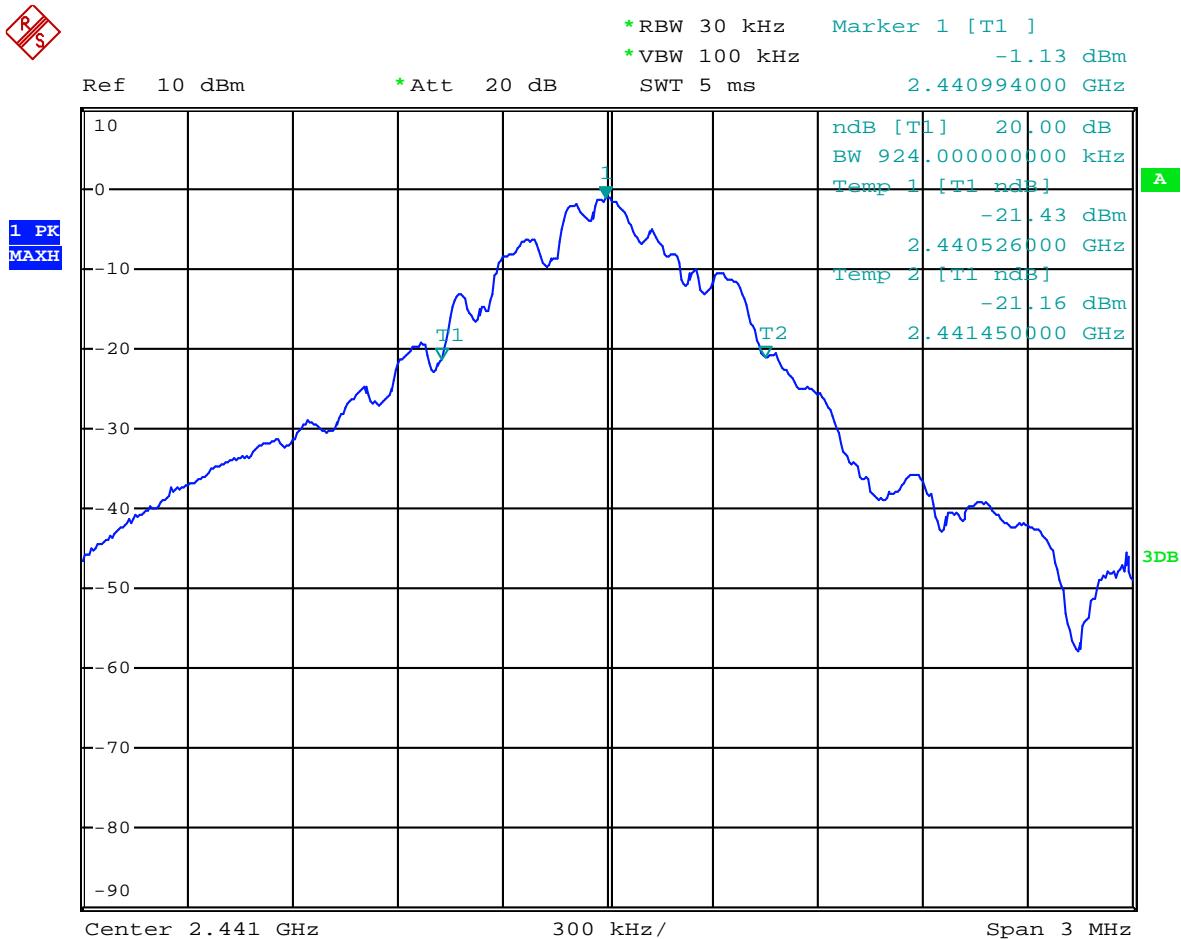
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Product:	AQIRYS AGENA Wireless Gaming Keyboard	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	924kHz	--	--



Date: 12.JUN.2025 12:35:08

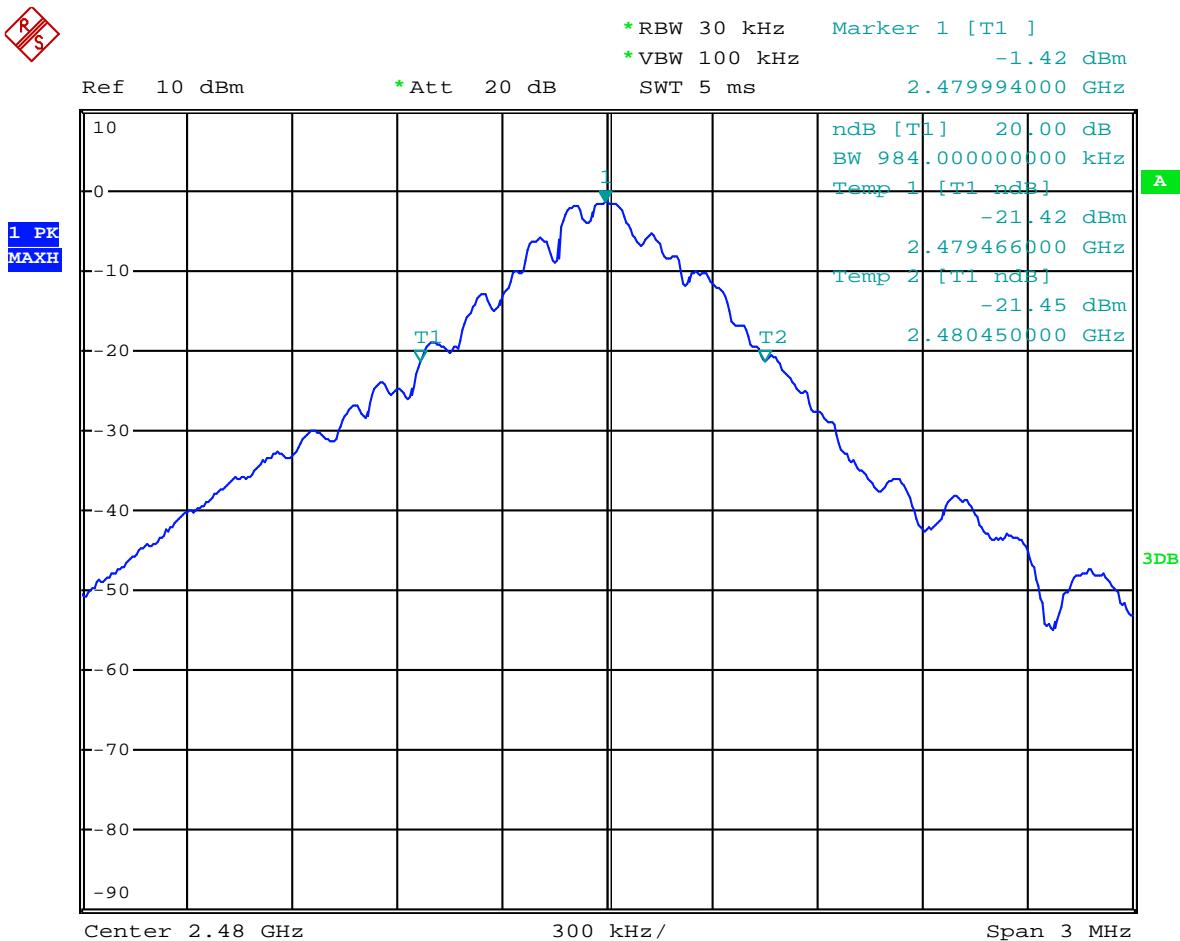
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Product:	AQIRYS AGENA Wireless Gaming Keyboard	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	984kHz	--	--



Date: 12.JUN.2025 12:44:13

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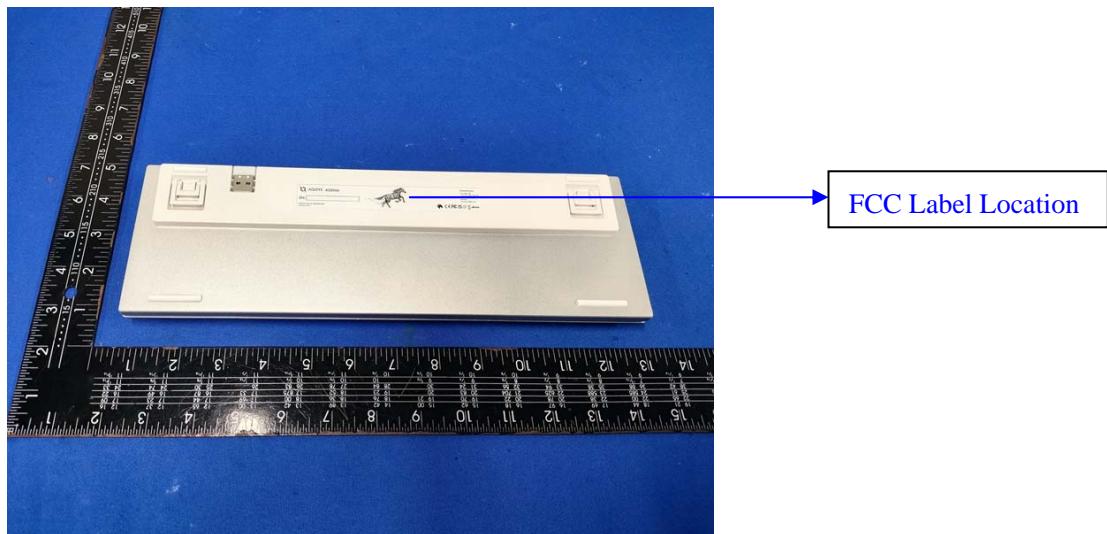
## 10.0 FCC ID Label

**FCC ID: 2BG42-AGENA**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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**11.0** Photo of testing

**11.1** Conducted test View



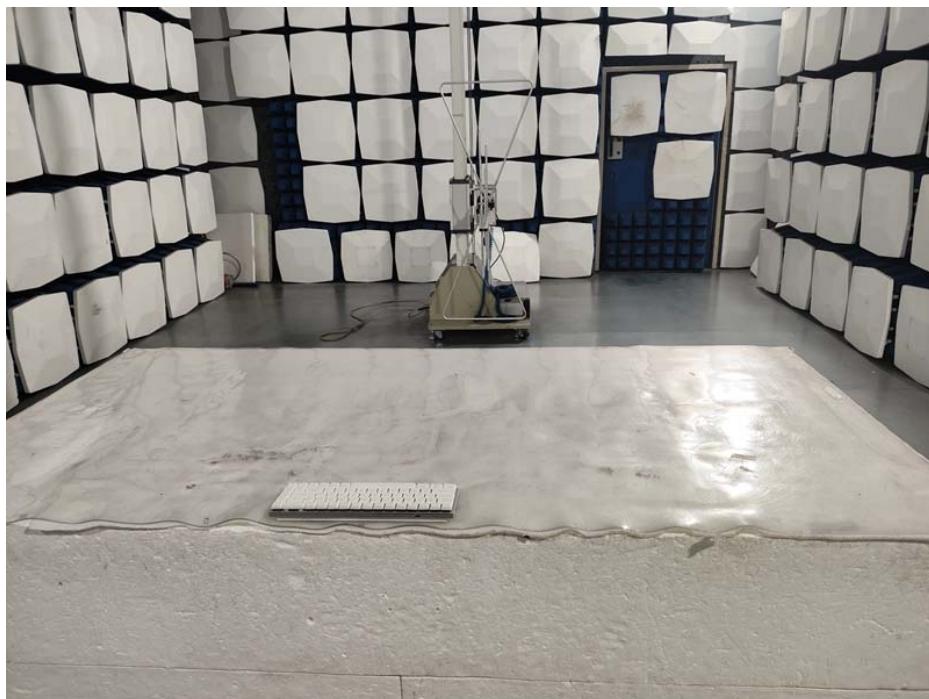
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Radiated emission test view



## 11.2 Photographs – EUT

Please refer test report TWN2505869-01E

**--End of the report--**

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