



Report No.: TW2210013E

Applicant: ABN SYSTEMS INTERNATIONAL S.A.

Product: 2.4G Wireless Mouse

Model No.: ST-800, TLL491161

Trademark: N/A

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: October 19, 2022

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

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Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

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

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of testing Laboratories.

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

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Test Report Conclusion

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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 Sates

Registration Number: 744189 For 3m Anechoic Chamber

1.2 Applicant Details

Applicant: ABN SYSTEMS INTERNATIONAL S.A.

Address: Str. Marinarilor, nr. 31, Sector 1 Bucuresti, Romania

Telephone: --Fax: --

1.3 Description of EUT

Product: 2.4G Wireless Mouse

Manufacturer: Star Technology Industrial Co., Ltd.

Address: Room 2102, Block 1st, Yi Luan Building, Xixiang Road 230, BaoAn District,

Shenzhen, China

Trademark: N/A
Model Number: ST-800
Additional Model Name TLL491161

Rating: DC3.0V, 1pc AA battery

Modulation Type: GFSK

Operation Frequency: 2402-2480MHz

Channel Number: 40
Channel Separation: 2MHz
Hardware Version: V7.0
Software Version: V6.9.1
Serial No.: TL61

Antenna Designation PCB antenna with gain -1.52dBi Max (Get from the antenna specification)

1.4 Submitted Sample: 2 Samples

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1.5 Test Duration

2022-10-09 to 2022-10-19

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

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	2022-07-15	2023-07-14
LISN	R&S	EZH3-Z5	100294	2022-07-18	2023-07-17
LISN	R&S	EZH3-Z5	100253	2022-07-18	2023-07-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2022-07-18	2023-07-17
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2022-07-15	2023-07-14
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	2024-07-17
Power meter	Anritsu	ML2487A	6K00003613	2022-07-18	2023-07-17
Power sensor	Anritsu	MA2491A	32263	2022-07-18	2023-07-17
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	2022-07-15	2023-07-14
EMI Test Receiver	RS	ESCS 30	834115/006	2022-07-15	2023-07-14
Spectrum	HP/Agilent	E4407B	MY50441392	2022-07-15	2023-07-14
Spectrum	RS	FSP	1164.4391.38	2022-07-15	2023-07-14
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2022-07-15	2023-07-14
RF Cable	Zhengdi	7m		2022-07-15	2023-07-14
Pre-Amplifier	Schwarebeck	BBV9743	#218	2022-07-15	2023-07-14
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2022-07-15	2023-07-14
LISN	SCHAFFNER	NNB42	00012	2022-08-18	2023-07-17

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

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.203	Antenna Requirement	Pass	Complies
FCC Part 15, Paragraph 15.207	Conducted Emission Test	N/A	N/A
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	Pass	Complies
FCC Part 15, Paragraph 15.209	Radiated Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	Pass	Complies

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

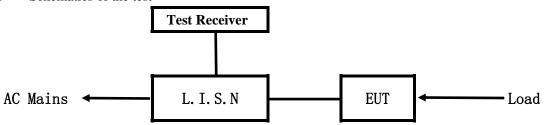
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5. Power Line Conducted Emission Test

5.1 Schematics of the test

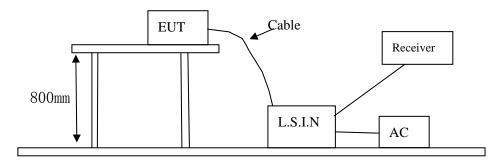


EUT: Equipment Under Test

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.

40 channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID
2.4G Wireless Mouse	Stor Tooknology Industrial Co. Ltd.	CT 900 TH 40116	2A74I-TLL4
2.4G wireless Mouse	Star Technology Industrial Co., Ltd.	ology Industrial Co., Ltd. ST-800, TLL49116	

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B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	Rating
N/A			

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	Limits (dB µ V)			
(MHz)	Quasi-peak Level	Average Level		
0.15 ~ 0.50	66.0~56.0*	56.0~46.0*		
$0.50 \sim 5.00$	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:

N/A

Note: EUT powered by AA battery, this test item not applicable.

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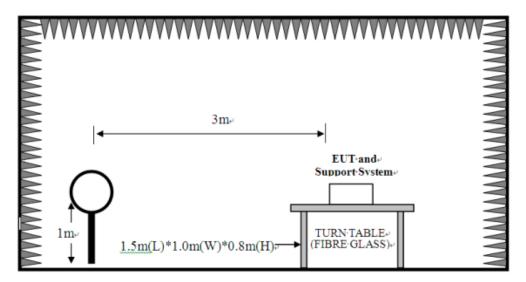


6 Radiated Emission Test

- 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 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz (Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz). Measurements were made at 3 meters.
- (4) The antenna high 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

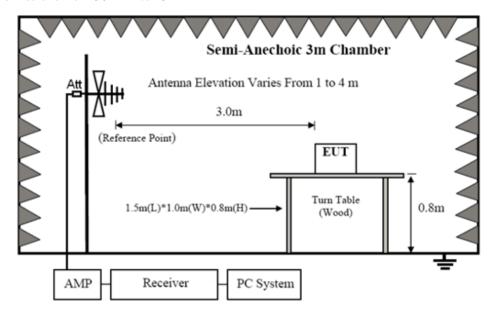


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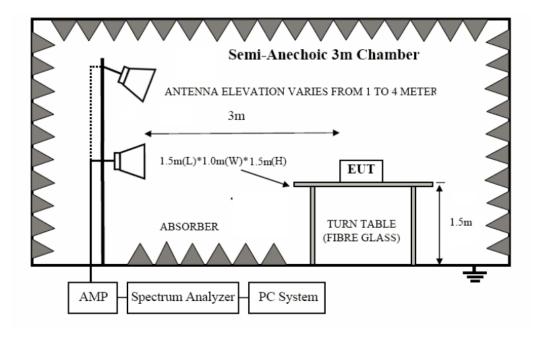
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For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



6.2 Configuration of The EUT Same as section 5.3 of this report

6.3 EUT Operating Condition

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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:

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

Fundamental Frequency	Field Stre	ngth of Fundame	ntal (3m)	Field S	trength of Harmo	onics (3m)
(MHz)	mV/m	dBuV/m		uV/m	dBu	V/m
2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)

Note:

- 1. RF Field Strength $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 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 μ V/m)
0.009-0.490	3	20log(2400/F(kHz)) +40log (300/3)
0.490-1.705	3	20log(24000/F(kHz)) +40log (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 $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 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. For radiated emissions from 9kHz to 30MHz, the emission level is much less than the limit for more than 20dB. No necessary to take down the record.
- 6. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.
- 7. New battery was used during tests.

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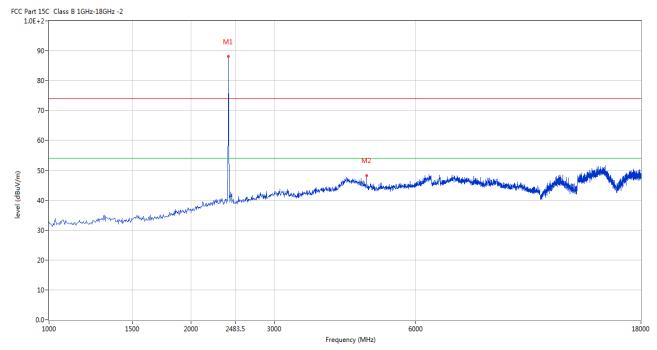


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



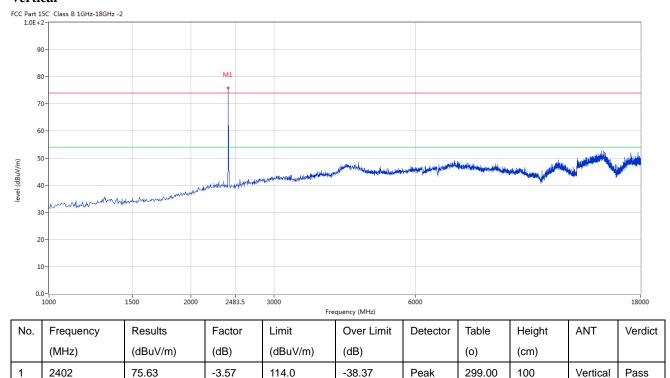
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	88.12	-3.57	114.0	-25.88	Peak	135.00	100	Horizontal	Pass
2	4717.821	48.28	2.92	74.0	-25.72	Peak	224.00	100	Horizontal	Pass

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Vertical



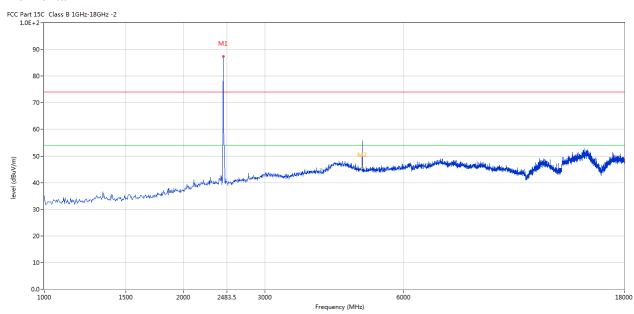
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Please refer to the following test plots for details: Middle Channel-2440MHz

Horizontal



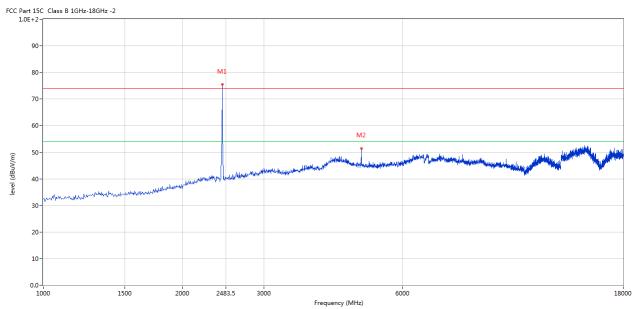
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2440	87.42	-3.57	114.0	-26.58	Peak	52.00	100	Horizontal	Pass
2	4879.280	55.68	3.20	74.0	-18.32	Peak	177.00	100	Horizontal	Pass
2**	4879.280	45.65	3.20	54.0	-8.35	AV	177.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2440	75.47	-3.57	114.0	-38.53	Peak	104.00	100	Vertical	Pass
2	4879.280	51.45	3.20	74.0	-22.55	Peak	0.00	100	Vertical	Pass

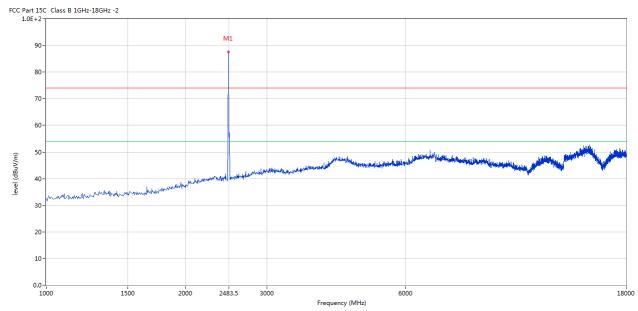
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



Ī	No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
	1	2480	87.58	-3.57	114.0	-26.42	Peak	278.00	100	Horizontal	Pass

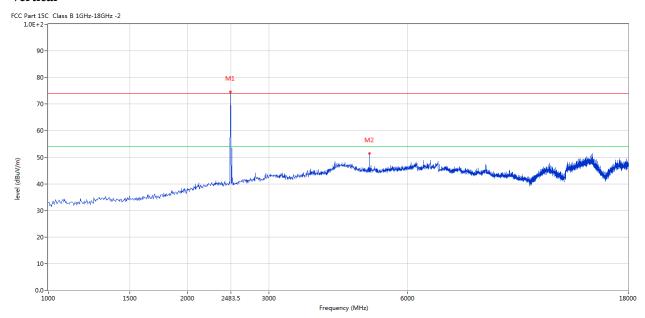
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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	74.66	-3.57	114.0	-39.34	Peak	329.00	100	Vertical	Pass
2	4960.010	51.51	3.36	74.0	-22.49	Peak	193.00	100	Vertical	Pass

Note: (2) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

- (3)Margin=Emission-Limits
- (4)According to section 15.35(b), the peak limit is 20dB higher than the average limit
- (5) For test purpose, keep EUT continuous transmitting
- (5) For emission above 18GHz and Below 30MHz, It is only the floor noise. 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	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	136.188	22.72	-17.16	43.5	-20.78	Peak	306.00	200	Horizontal	Pass
2	178.130	25.00	-15.51	43.5	-18.50	Peak	15.00	200	Horizontal	Pass
3	223.467	27.06	-13.14	46.0	-18.94	Peak	244.00	100	Horizontal	Pass
4	269.288	32.79	-11.74	46.0	-13.21	Peak	244.00	100	Horizontal	Pass
5	359.718	27.65	-9.44	46.0	-18.35	Peak	206.00	100	Horizontal	Pass
6	500.090	32.29	-6.91	46.0	-13.71	Peak	268.00	200	Horizontal	Pass

200

Frequency (MHz)

400

1000

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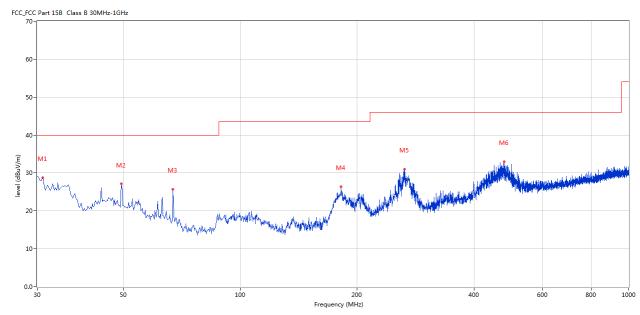


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	30.970	28.77	-14.59	40.0	-11.23	Peak	309.00	100	Vertical	Pass
2	49.395	27.17	-11.28	40.0	-12.83	Peak	0.00	200	Vertical	Pass
3	67.093	25.70	-14.32	40.0	-14.30	Peak	271.00	100	Vertical	Pass
4	181.767	26.36	-15.05	43.5	-17.14	Peak	303.00	100	Vertical	Pass
5	264.924	31.02	-11.85	46.0	-14.98	Peak	0.00	200	Vertical	Pass
6	477.543	33.00	-7.44	46.0	-13.00	Peak	0.00	200	Vertical	Pass

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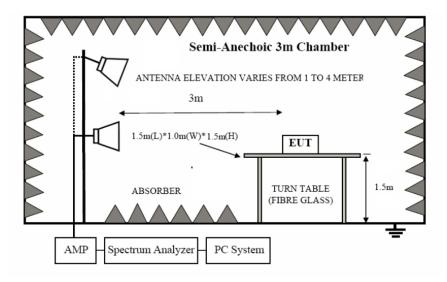


7. Band Edge

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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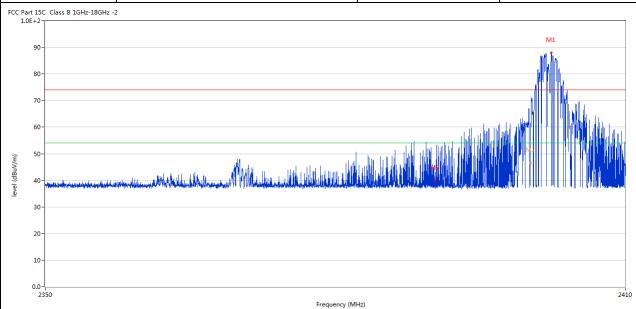
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7.6 Test Result

Product:	2.4G Wireless Mouse	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.0V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



No	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402.262	87.89	-3.57	74.0	13.89	Peak	150.00	100	Horizontal	N/A
2	2400.087	61.58	-3.57	74.0	-12.42	Peak	37.00	100	Horizontal	Pass
2**	2400.087	46.54	-3.57	54.0	-7.46	AV	37.00	100	Horizontal	Pass
3	2390.175	39.88	-3.53	74.0	-34.12	Peak	15.00	100	Horizontal	Pass

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3

2390.115

33.64

-3.53

74.0



	roduct: Mode		4G Wirele			Detect			Vertical DC3.0V	
		K	eeping Tra			Test Vol				
	nperature st Result:		24 deg			Humid	ity	•	56% RH	
	C Class B 1GHz-18GHz -		Pas	as .						
90 - 80 - 70 -								M	1	
50- 40- 30- 20- 10-	prografia nghi da Jasainin a ca high aji sebi ndi da nda agam	ines. Lide left lance to any distributive delay for a fine shoring	marinas as as as debit struit		equency (MHz)					2410
50- 40- 30- 20- 10- 0.0- 23	mand the survey of the survey	Results				Detector	Table	Height	ANT	ı
50- 40- 30- 20- 10- 0.0- 23	pong o she she dha an a san a she al firebh she dha an an		Factor (dB)	Fre	equency (MHz)		Table (o)	Height (cm)	ANT	2410 Verd
50- 40- 30- 20- 10-	350 Frequency	Results	Factor	Fre	equency (MHz) Over Limit				ANT	ı

-40.36

Peak

92.00

100

Vertical

Pass

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2

2**

2483.347

2483.347

63.51

48.49

-3.57

-3.57

74.0

54.0



Product:		2.4G W	Vireless Mou	se		Polari	ty	Horizo	ntal
Mode		Keepin	g Transmittii	ng		Test Voltage		DC3.0)V
Temperature		2	4 deg. C,			Humid	ity	56% F	RH
Test Result:		Pass							
C Part 15C Class B 1GHz-1 1.0E+2 - 90 - 80 - 70 -	3GHz -2	M1							
30-								اعليه المالية	Mandaland
50 - 40 -			2483.5	Frequency (MHz)					2500
30- 20- 10-	Results (dBuV/m)	Factor (dB)			Detector	Table (o)	Height (cm)	ANT	2500 Verdid

-10.49

-5.51

Peak

ΑV

148.00

148.00

100

100

Horizontal

Horizontal

Pass

Pass

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]	Product:		2.4G \	Wireless Mou	se		Detecto	or	Vertic	al
	Mode		Keepii	ng Transmitti	ng		Test Volt	age	DC3.0)V
Te	mperature		2	24 deg. C,			Humidi	ty	56% F	RH
Te	est Result:			Pass						
Part 1	15C Class B 1GHz-18GHz	-2								
9	10-									
8	-		M1							
7	70-			l h						
6	60-									
	60-									
5	10-111111111111111111111111111111111111					<u> </u>	#	1.11.		
5	10-							بالباباليلياب	handalla dhadaldh	
5 4 3	0-							برالياسا لواسياليا	الهرمادياك يادباره عادالها	dh.
3	10-							برالا مارا المارا الماريان	المحمونة والمحاملة والمحام	dant Lelle
3	0-							باللمام المام ا	haveeld and the sheet sheet sheet	dd oo Lell
5 4 3 2	10-			2483.5 Fr	equency (MHz)			, de la d	h, wish ash a ship a ship	2500
5 4 3 2 1	00-	Results	Factor		equency (MHz) Over Limit	Detector	Table	Height	ANT	
5 4 3 2 1	0-2470	Results (dBuV/m)	Factor (dB)	Fre	1					2500
5 4 3 2	00- 00- 00- 00- 00- 00- 00- 00- 00- 00-			Limit	Over Limit		Table	Height		2500
5 4 3 2 1 0.	Frequency (MHz)	(dBuV/m)	(dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	2500 Verdic

Note: 1. The PK emission level less than the AV limit. No necessary to record the AV emission level.

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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. The antenna gain is -1.52dBi Max. It fulfills the requirement of this section. Test Result: Pass

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Product:	2.4G	Wireless M	Iouse		Te	est Mode:		Keep tran	nsmitti	ng	
Mode	Keepi	ng Transm	itting		Te	est Voltage		DC3			
Temperature		24 deg. C,			F	Humidity		56%	RH		
Test Result:		Pass]	Detector		P	K		
OdB Bandwidth	,	2.164MHz									
<u> </u>	Delta :	Delta 1 [T1]			BW	100 k	Hz RF Att 20 di			dВ	
Ref Lvl		0.	64 dB	V	BW	300 k	Hz				
10 dBm		2.164328	866 MHz	SI	TW	5 m	s (Jnit		dBm	1
10						\mathbf{v}_1	[T1]	-2	9.87	dBm	
								2.4009	5293	GHz	Z
0						<u>^</u> 1	[T1]		0.64	dВ	
				2		∇_2		2.1643			
-10			/_/	<u> </u>		v 2	[T1]	2.40204		dBm	
					2			2.4020	2009	GHZ	
-20			/			\					
1MAX	1	^~~				~ /	1				11
-30 <u>D1 -29 79</u>	dBm	V					1		+		
-40											
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~							1	A VIII		
-50									•	-	
-60									1		
-70									1		
-80									1		
-90											
Center 2.4	02 GHz		500	kHz/				Spa	an 5	MHz	

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Product:	2.4G Wireless Mouse				Test Mode:			Keep transmitting				
Mode	Keeping Transmitting				Test Voltage			DC3.0V				
Temperature	24		Humidity			56% RH						
Test Result:			Detector			PK						
20dB Bandwidth	2.											
R.	Delta 1 [T1]				RBW 100 kHz RF Att 20					20 dB		
Ref Lvl	-0.00 dB				VBW 300 kHz							
10 dBm	2.20841683 MHz			S	SWT 5 ms Unit					dBn	ı	
10						▼:	L ['	г1]	-29	.74 dBm	A	
									2.43894	289 GHz		
0						<u> </u>	L [ '	Г1]	- (	.00 dB	1	
				2		$\nabla_{\beta}$		r1 l	2.20841	683 MHz		
-10				7				<u> </u>	2.44004			
-20			<i>f</i>			Λ.,					1MA	
	19 dBm					~~	1	1				
-30 <u>D1 -29.4</u>	19 aBm						,	<b>V</b> 1				
Muliny	my Mark							Mu	4.11			
-40									the	Vul.		
										- MIL		
-50												
-60												
-70							+					
-80												
-90											ļ	
Center 2.44 GHz 500 kHz/ Span 5 MH								ın 5 MHz				
Date: 14	.OCT.2022 14	:14:32										

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Product:	2.4G Wireless Mouse					Т	est Mod	e:		Keep transmitting					
Mode	Keeping Transmitting					Test Voltage				DC3.0V					
Temperature	24 deg. C,				Humidity				56% RH						
Test Result:	Pass					Detector				PK					
20dB Bandwidth	2.214MHz														
	D	elta 1	[T1]		R	BW	100	kŀ	łz	RF Att	20	dВ			
Ref Lvl	0.32 dB				/BW 300 kHz										
10 dBm		2	.214428	886 MHz	S	WT	5	ms	5	Unit		dBm			
10							•	1	[T1]	_	29.45	dBm	A		
										2.478	93287	GHz			
0							<u> </u>	1	[T1]		0.32	dB			
					2 <b>V</b>		$\nabla$		[T1]	2.214	42886	MHz dBm			
-10					كر			4	1 4 4 1	2.480	04509				
				$\int$		$\mathcal{N}$									
-20			_~~	/									1MA		
		1	$\mathcal{N}$				**	7	1				IMA		
-30 <del>-D1 -29.</del>	13 dBm—	7							+						
-40									7	W					
-40	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\										~~				
50	~										_				
-50															
-60															
-70															
-80															
-90 Conton 3	40 011			F.0.0	1-11- /							N/TT-			
Center 2.48 GHz 500 kHz/ Span 5 MHz															
Date: 14	1.OCT.20	22 14	:20:37												

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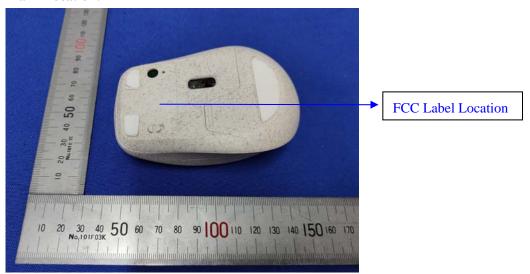


#### 10.0 FCC ID Label

#### FCC ID: 2A74I-TLL491161

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



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# Photographs-EUT



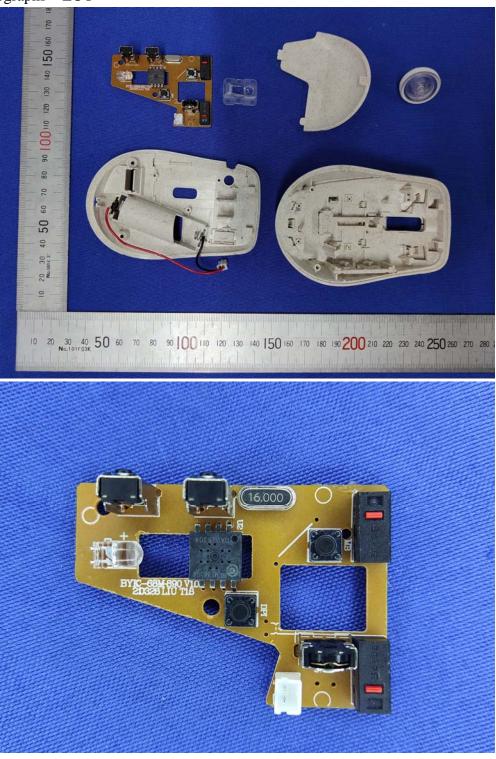
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# Photographs - EUT



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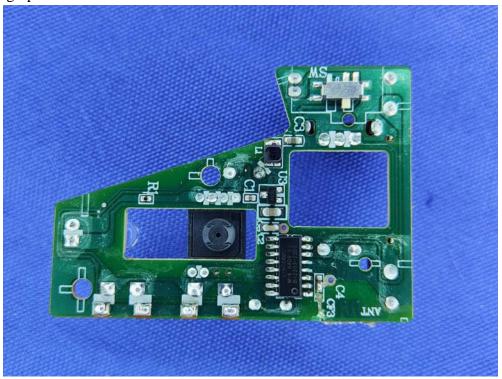
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---End of the Report--