

File reference No.: 2022-07-11

Applicant: Shenzhen Star Sources Electronic Technology Co., Ltd.

Product: 2.4G Wireless Mouse

Model No.: ST-201, 2WXMS1581A0L2, 2WXMS1585A0L2, ST-836,

ST-800, ST-801, ST-515, ST-339, ST-370, ST-870, ST-206, ST-321, ST-368, ST-397, ST-xyz (x=0~9, y=0~9, z=0~9)

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: July 11, 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



Report No.: TW2206330E Page 2 of 36

Date: 2022-07-11



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

31

Report No.: TW2206330E

Date: 2022-07-11



Test Report Conclusion

Content 1.0 General Details 4 4 1.1 Test Lab Details.... 1.2 Applicant Details. 4 1.3 Description of EUT 1.4 Submitted Sample.... 4 Test Duration. 1.5 5 1.6 5 Test Uncertainty. 1.7 Test By..... 5 2.0 List of Measurement Equipment..... 6 3.0 7 Technical Details..... 3.1 Summary of Test Results.... 7 3.2 7 Test Standards.... 4.0 EUT Modification. 7 Power Line Conducted Emission Test. 5.0 Schematics of the Test..... 5.1 8 5.2 Test Method and Test Procedure. 8 Configuration of the EUT..... 5.3 8 5.4 EUT Operating Condition.... 9 Conducted Emission Limit. 9 5.5 5.6 Test Result. 6.0 Radiated Emission test.... 10 Test Method and Test Procedure. 6.1 10 6.2 Configuration of the EUT..... 11 6.3 EUT Operation Condition.... 11 Radiated Emission Limit. 6.4 11 Test Result..... 6.5 13 7.0 Band Edge 21 7.1 Test Method and Test Procedure. 21 7.2 Radiated Test Setup. 21 7.3 Configuration of the EUT..... 21 7.4 EUT Operating Condition.... 21 7.5 21 Band Edge Limit. 7.6 Band Edge Test Result. 22 8.0 Antenna Requirement..... 26 9.0 20dB bandwidth measurement. 27 10.0 30 FCC ID Label. Photo of Test Setup and EUT View.

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

11.0

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Report No.: TW2206330E Page 4 of 36

Date: 2022-07-11



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: Shenzhen Star Sources Electronic Technology Co., Ltd.

Address: Room2102, Block 1st, Yi Luan Building, Xixiang Road 230, BaoAn District, Shenzhen, China

Telephone: +86-755-86397260 Fax: +86-755-26609516

1.3 Description of EUT

Product: 2.4G Wireless Mouse

Manufacturer: Shenzhen Star Sources Electronic Technology Co., Ltd.

Address: Room2102, Block 1st, Yi Luan Building, Xixiang Road 230, BaoAn District,

Shenzhen, China

Trademark: N/A Model Number: ST-201

Additional Model Name 2WXMS1581A0L2, 2WXMS1585A0L2, ST-836, ST-800, ST-801, ST-515,

ST-339, ST-370, ST-870, ST-206, ST-321, ST-368, ST-397, ST-xyz (x=0~9,

y=0~9, z=0~9)

Rating: 1.5V AA battery

Modulation Type: GFSK

Operation Frequency: 2402-2480MHz

Channel Number: 40
Channel Separation: 2MHz
Hardware Version: RF-8821
Software Version: 7008

Serial No.: 16799LW100001

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

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Report No.: TW2206330E Page 5 of 36

Date: 2022-07-11



1.4 Submitted Sample: 1 Sample

1.5 Test Duration

2022-06-25 to 2022-07-11

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

Page 6 of 36

Report No.: TW2206330E

Date: 2022-07-11



2.0 Test Equipment								
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date			
ESPI Test Receiver	R&S	ESPI 3	100379	2022-06-17	2023-06-16			
LISN	R&S	EZH3-Z5	100294	2022-06-17	2023-06-16			
LISN	R&S	EZH3-Z5	100253	2022-06-17	2023-06-16			
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2022-06-17	2023-06-16			
Loop Antenna	EMCO	6507	00078608	2021-06-18	2024-06-17			
Spectrum	R&S	FSIQ26	100292	2022-06-17	2023-06-16			
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2021-07-02	2024-07-01			
Horn Antenna	R&S	BBHA 9120D	9120D-631	2021-07-02	2024-07-01			
Power meter	Anritsu	ML2487A	6K00003613	2022-06-17	2023-06-16			
Power sensor	Anritsu	MA2491A	32263	2022-06-17	2023-06-16			
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2021-07-02	2024-07-01			
9*6*6 Anechoic			N/A	2022-06-17	2023-06-16			
EMI Test Receiver	RS	ESVB	826156/011	2022-06-17	2023-06-16			
EMI Test Receiver	RS	ESH3	860904/006	2022-06-17	2023-06-16			
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2022-06-17	2023-06-16			
Spectrum	HP/Agilent	E4407B	MY50441392	2022-06-17	2023-06-16			
Spectrum	RS	FSP	1164.4391.38	2022-01-15	2023-01-14			
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2022-06-17	2023-06-16			
RF Cable	Zhengdi	7m		2022-06-17	2023-06-16			
RF Switch	EM	EMSW18	060391	2022-06-17	2023-06-16			
Pre-Amplifier	Schwarebeck	BBV9743	#218	2022-06-17	2023-06-16			
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2022-06-17	2023-06-16			
LISN	SCHAFFNER	NNB42	00012	2022-01-05	2023-01-04			

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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Report No.: TW2206330E Page 7 of 36

Date: 2022-07-11



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

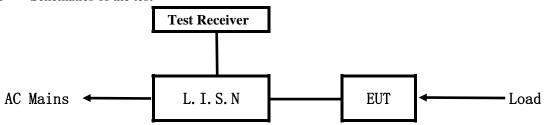
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

Date: 2022-07-11



5. Power Line Conducted Emission Test

5.1 Schematics of the test

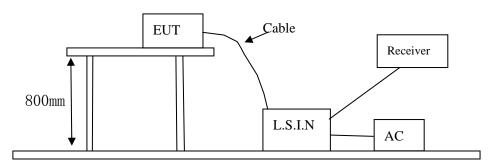


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2014. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 500hm/50uH as specified by section 5.1 of ANSI C63.4 -2014.

Test Voltage: 120V~, 60Hz Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2014. 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	Shenzhen Star Sources Electronic Technology Co., Ltd.	ST-201, 2WXMS1581A0L2, 2WXMS1585A0L2, ST-836, ST-800, ST-801, ST-515, ST-339, ST-370, ST-870, ST-206, ST-321, ST-368,	ZJEST-201
		ST-397, $ST-xyz(x=0~9, y=0~9, z=0~9)$	

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Report No.: TW2206330E Page 9 of 36

Date: 2022-07-11



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 C63.4 -2014

- 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 batteries, this test item not applicable.

Date: 2022-07-11

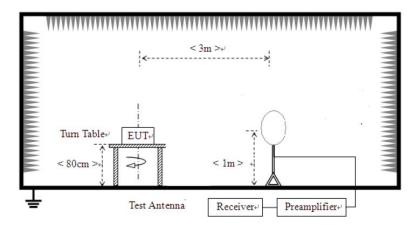


6 Radiated Emission Test

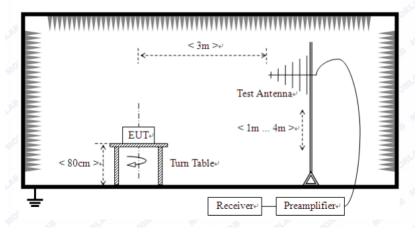
- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size 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



For radiated emissions from 30MHz to1GHz



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

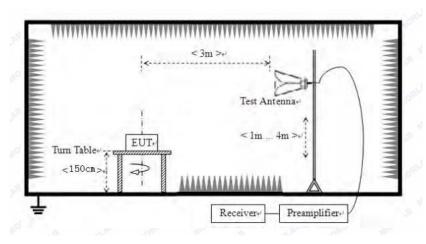
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Date: 2022-07-11



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:

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

Fundamental Frequency	Field Strength of Fundamental (3m)				Field Strength of Harmonics (3m)		
(MHz)	mV/m	dBuV/m		uV/m	dBuV/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.

Report No.: TW2206330E Page 12 of 36

Date: 2022-07-11



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 60	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. 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.
- 5. 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.
- 6. 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.
- 7. New battery was used during tests.

Report No.: TW2206330E Page 13 of 36

Date: 2022-07-11

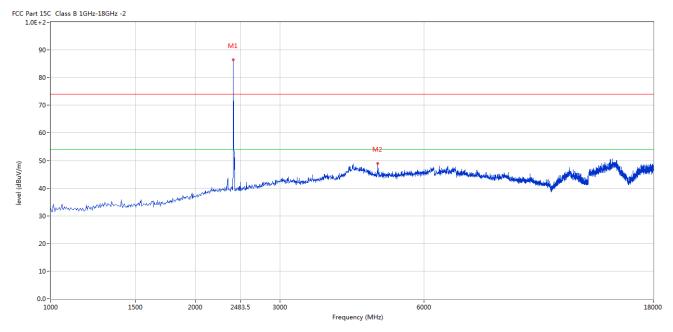


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



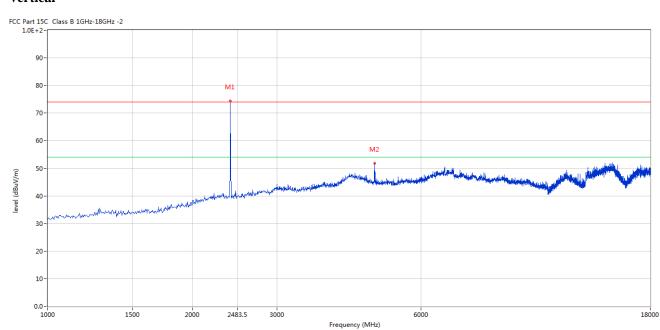
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(0)	(cm)		
1	2402	86.94	-3.57	114.0	-27.06	Peak	143.00	100	Horizontal	Pass
2	4802.799	48.98	3.12	74.0	-25.02	Peak	74.00	100	Horizontal	Pass

Report No.: TW2206330E Page 14 of 36

Date: 2022-07-11



Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402	74.51	-3.57	114.0	-39.49	Peak	160.00	100	Vertical	Pass
2	4802.799	51.82	3.12	74.0	-22.18	Peak	165.00	100	Vertical	Pass

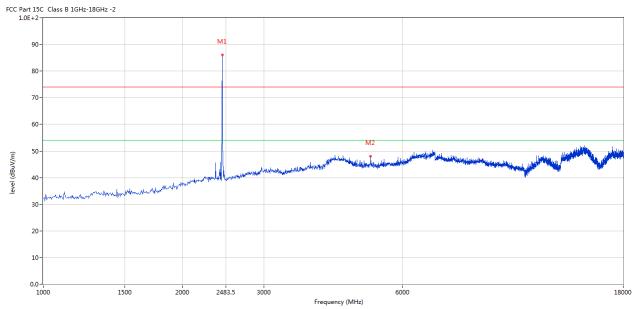
Report No.: TW2206330E Page 15 of 36

Date: 2022-07-11



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

Horizontal



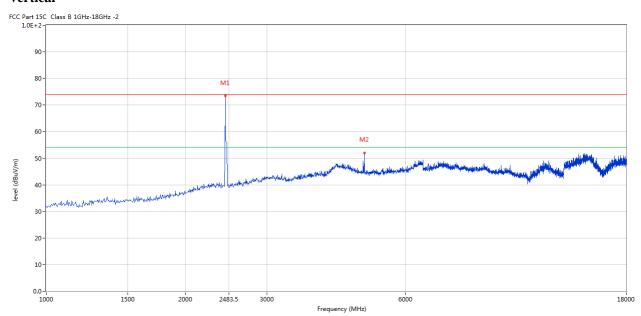
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2440	86.12	-3.57	114.0	-27.88	Peak	96.00	100	Horizontal	Pass
2	5112.972	48.02	3.79	74.0	-25.98	Peak	121.00	100	Horizontal	Pass

Report No.: TW2206330E Page 16 of 36

Date: 2022-07-11



Vertical



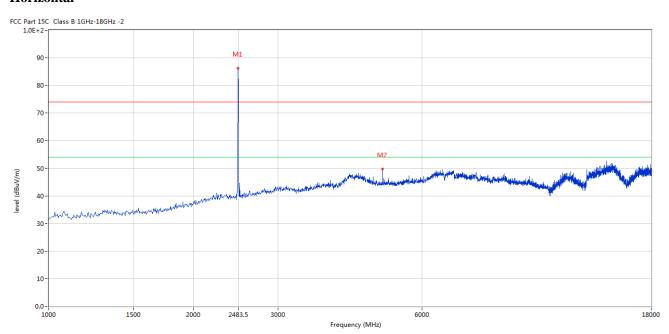
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2440	73.49	-3.57	114.0	-40.51	Peak	269.00	100	Vertical	Pass
2	4879.280	51.92	3.20	74.0	-22.08	Peak	219.00	100	Vertical	Pass

Report No.: TW2206330E Page 17 of 36

Date: 2022-07-11



Horizontal



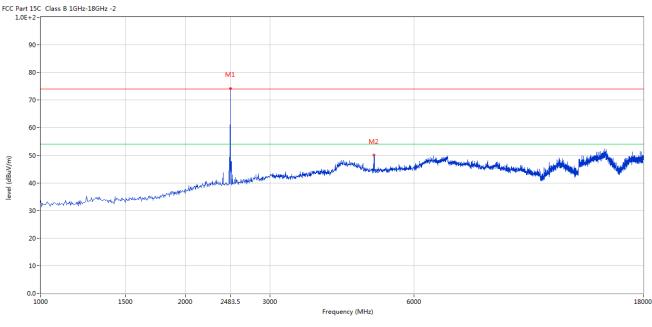
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(0)	(cm)		
1	2480	86.32	-3.57	114.0	-27.68	Peak	149.00	100	Horizontal	Pass
2	4960.010	49.73	3.36	74.0	-24.27	Peak	327.00	100	Horizontal	Pass

Date: 2022-07-11



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

Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(0)	(cm)		
1	2480	75.11	-3.57	114.0	-38.89	Peak	196.00	100	Vertical	Pass
2	4960.010	49.66	3.36	74.0	-24.34	Peak	359.00	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.

Report No.: TW2206330E Page 19 of 36

Date: 2022-07-11

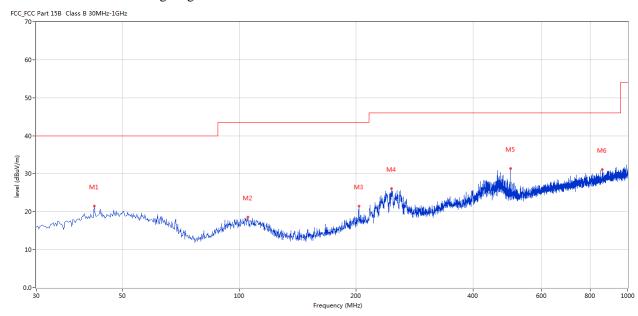


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

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	42.364	21.44	-11.59	40.0	-18.56	Peak	77.00	100	Horizontal	Pass
2	105.156	18.63	-13.23	43.5	-24.87	Peak	205.00	100	Horizontal	Pass
3	203.102	21.45	-13.44	43.5	-22.05	Peak	108.00	100	Horizontal	Pass
4	246.498	26.07	-12.15	46.0	-19.93	Peak	275.00	100	Horizontal	Pass
5	500.090	31.35	-6.91	46.0	-14.65	Peak	87.00	100	Horizontal	Pass
6	858.900	31.15	-2.34	46.0	-14.85	Peak	83.00	100	Horizontal	Pass

Report No.: TW2206330E Page 20 of 36

Date: 2022-07-11

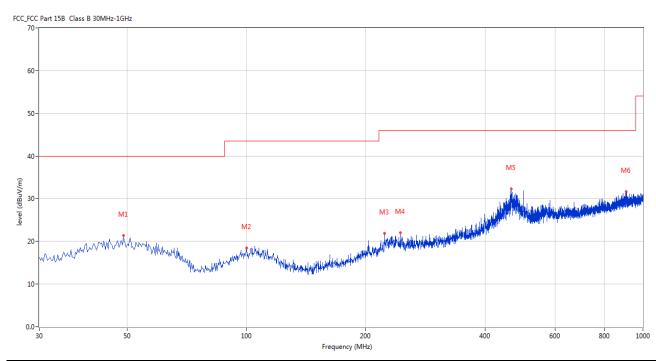


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	48.910	21.34	-11.21	40.0	-18.66	Peak	117.00	100	Vertical	Pass
2	100.065	18.50	-13.52	43.5	-25.00	Peak	94.00	100	Vertical	Pass
3	222.739	21.86	-13.19	46.0	-24.14	Peak	23.00	100	Vertical	Pass
4	244.559	21.96	-12.24	46.0	-24.04	Peak	59.00	100	Vertical	Pass
5	464.694	32.26	-7.74	46.0	-13.74	Peak	164.00	100	Vertical	Pass
6	905.934	31.64	-1.78	46.0	-14.36	Peak	292.00	100	Vertical	Pass

Date: 2022-07-11

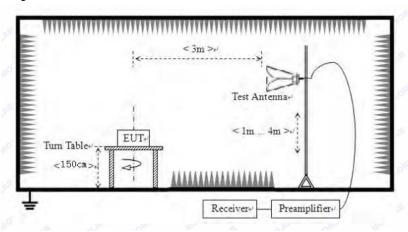


7. Band Edge

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.

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

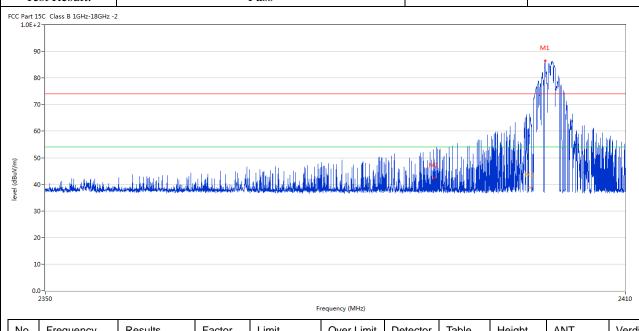
Report No.: TW2206330E Page 22 of 36

Date: 2022-07-11



7.6 Test Result

Product:	2.4G Wireless Mouse	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC1.5V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		

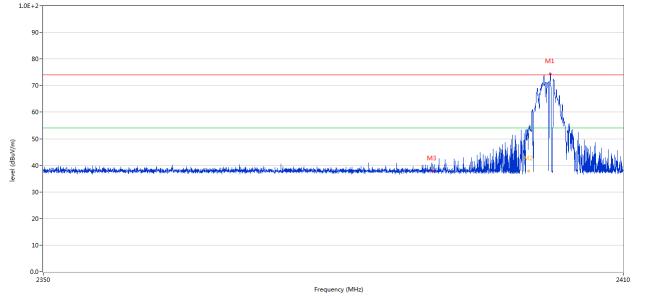


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2401.632	86.37	-3.57	74.0	12.37	Peak	112.00	100	Horizontal	N/A
2	2399.998	55.14	-3.57	74.0	-18.86	Peak	296.00	100	Horizontal	Pass
2**	2399.998	38.77	-3.57	54.0	-15.23	AV	296.00	100	Horizontal	Pass
3	2390.070	42.29	-3.53	74.0	-31.71	Peak	141.00	100	Horizontal	Pass

Page 23 of 36 Report No.: TW2206330E



	2.4G Wireless Mouse	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC1.5V
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	2402.367	74.36	-3.57	74.0	0.36	Peak	173.00	100	Vertical	N/A
2	2400.087	54.24	-3.57	74.0	-19.76	Peak	130.00	100	Vertical	Pass
2**	2400.087	37.85	-3.57	54.0	-16.15	AV	130.00	100	Vertical	Pass
3	2390.040	37.85	-3.53	74.0	-36.15	Peak	337.00	100	Vertical	Pass

Report No.: TW2206330E Page 24 of 36



I	Product:		2.4G W	ireless Mous	e		Polarity	7	Horizon	tal
	Mode		Keeping	g Transmittin	g	-	Test Volta	ige	DC1.5	V
Te	mperature		24	deg. C,			Humidit	y	56% R	Н
Te	est Result:			Pass						
C Part 1	.5C Class B 1GHz-18GHz -2	2				•		•		,
91 81 71	0-	. di								
56 44 34 20										
30 30 20 10	0-			1	requency (MHz)					2500
36 36 20	o- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0-	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	2500 Verd
30 30 20 10	0-	Results (dBuV/m)	Factor (dB)	Fi	1	Detector	Table (o)	Height (cm)	ANT	ı
30 30 20 10	o- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0-			Limit	Over Limit	Detector Peak		•	ANT Horizontal	ı
31 24 0.4 No.	Frequency (MHz)	(dBuV/m)	(dB)	Limit (dBuV/m)	Over Limit (dB)		(o)	(cm)		Verd

Report No.: TW2206330E Page 25 of 36



I	Product:		2.4G V	Vireless Mou	se		Detecto	r	Vertica	al
	Mode		Keepir	ng Transmittii	ng	r	Test Volta	ıge	DC1.5	V
Te	mperature		2	24 deg. C,			Humidit	у	56% R	Н
Te	est Result:			Pass						
C Part 1	5C Class B 1GHz-18GHz 2-	-2								
90	n-									
80	0-									
70	0-		100	Ala						
	0-		- MIIII							
60			4	I I II TIKAKA						
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50	0-44444						A Medicana di Alexandri	hadiradeanahainne	kidajuselfrahang bisnopada, ada	Ang a
50 40 30						aldete of lands and the second of the second	delistratura de septembro	ingdored (manifestures	kidalmatikinkand Perripide, ada	Annero ul
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30 30 20 10		Results	Factor			Detector	Table	Height	ANT	Ī
30 20	0-2470	Results (dBuV/m)	Factor (dB)	Fre	equency (MHz)			- Additional Control	ANT	Ī
30 30 20 10	o-2470 Frequency			Limit	equency (MHz) Over Limit		Table	Height	ANT Vertical	2500 Verdic

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

Report No.: TW2206330E Page 26 of 36

Date: 2022-07-11



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

Report No.: TW2206330E Page 27 of 36



9.0 20dB Bandwidt	th Measurement					
Product:				Test Mode:	Keep transmittin	ıg
Mode				Test Voltage	DC1.5V 56% RH	
Temperature				Humidity		
Test Result:		Pass			PK	
20dB Bandwidth		2.184MHz				
Ŕ	Marker	1 [T1 ndB]	RBW	100 kHz R	F Att 20 dB	
Ref Lvl	ndB	20.00 dB	VBW	300 kHz		
10 dBm	BW :	2.18436874 MHz	SWT	5 ms U	nit dBm	
				▼1 [T1]	-9.08 dBm	Α
					2.40214529 GHz	
0				ndB	20.00 dB	
			1	BW ▼ _{T1 [T1]}	2.18436874 MHz -29.20 dBm	
-10		1		14 (11)	2.40104309 GHz	
			\sim	∇_{T2} [T1]	-29.07 dBm	
-20			7	~	2.40322745 GHz	
- 30				T ₂		1MA
- 30				4		
-40						
	man				1 mm	
-50						
-60						
-70						
-80						
-90 Center 2.	402 GHz	500	kHz/		Span 5 MHz	
Date: 11.JUL.2022 09:06:29						

Report No.: TW2206330E Page 28 of 36



Product:	2.4G Wireless Mouse			Test Mode:	Keep transmitting	
Mode	Keeping Transmitting			Test Voltage	DC1.5V	
Temperature	24 deg. C,			Humidity	56% RH	
Test Result:	Pass			Detector	PK	
20dB Bandwidth	2.184MHz					
Ref Lvl	Marker 1 [T1 ndB] RBW ndB 20.00 dB VBW		100 kHz RE	F Att 20 dB		
10 dBm	BW	2.18436874 MHz	SWT	5 ms Ur	nit dBm	
10				▼ 1 [T1]	-8.83 dBm A	
0			1	ndB BW	20.00 dB 2.18436874 MHz	
-10				▼ _{T1 [T1]} ▼ _{T2 [T1]}	-28.59 dBm 2.43904309 GHz -28.64 dBm	
-20				V 12	2.44122745 GHz	
-30						
-40	~~~~ <u>~</u>					
-50						
-60						
-70						
-80						
-90						
Center 2.44 GHz 500 kHz/ Span 5 MHz Date: 11.JUL.2022 09:22:00						

Report No.: TW2206330E Page 29 of 36



Product:	2.4G Wireless Mouse			Test Mode:	Keep transmitting	
Mode	Keeping Transmitting			Test Voltage	DC1.5V	
Temperature	24 deg. C,			Humidity	56% RH	
Test Result:	Pass			Detector	PK	
20dB Bandwidth	2.204MHz					
(s)	Marker	1 [T1 ndB]	RBW	100 kHz RE	Att 20 dB	
Ref Lvl	ndB	20.00 dB	VBW	300 kHz		
10 dBm	BW :	2.20440882 MHz	SWT	5 ms Ur	nit dBm	
10				▼ 1 [T1]	-7.91 dBm	
					2.48011523 GHz	
0				ndB	20.00 dB	
			1	BW	2.20440882 MHz	
-10	+			∇ _{T1} [T1]	-28.01 dBm	
			\n	, ∇ _{T2 [T1]}	2.47903307 GHz -28.23 dBm	
-20		- W		1 [11]	-28.23 dBm 2.48123747 GHz	
1MAX				T2	1MA	
-30		7		Y		
				7		
-40	A-A				N .	
-40						
W					~~~	
-50						
-60						
-70						
-80						
-90						
Center 2.48 GHz 500 kHz/ Span 5 MHz						
Date: 11.JUL.2022 09:26:21						

Report No.: TW2206330E Page 30 of 36

Date: 2022-07-11

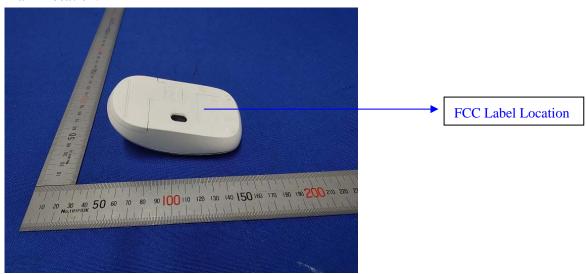


10.0 FCC ID Label

FCC ID: ZJEST-201

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:



Date: 2022-07-11



11.0 Photo of testing

11.1 Conducted test View-N/A

Radiated emission test view





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

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11.2 Photographs – EUT

Outside View



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Page 33 of 36

Report No.: TW2206330E

Date: 2022-07-11



Outside View





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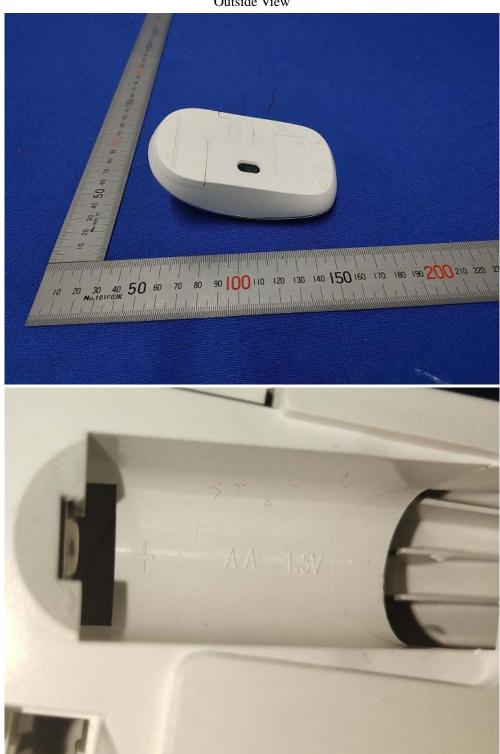
Page 34 of 36

Report No.: TW2206330E

Date: 2022-07-11



Outside View



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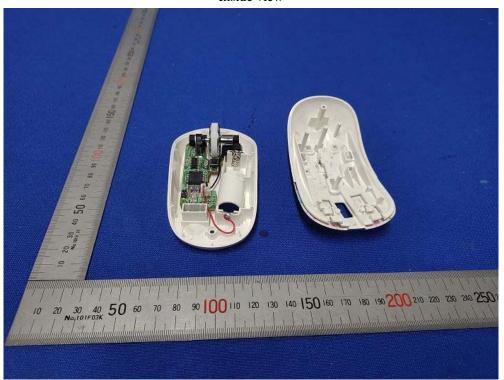
Page 35 of 36

Report No.: TW2206330E

Date: 2022-07-11



Inside view





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Report No.: TW2206330E Page 36 of 36



Inside view



-- End of the report--