

JianYan Testing Group Shenzhen Co., Ltd.

Report No: JYTSZB-R01-2100555

FCC REPORT

Applicant: Eluktronics Inc

Address of Applicant: 861 Newtown Yardley Road Newtown, Pennsylvania, USA

18940

Equipment Under Test (EUT)

Product Name: Wireless eSports Gaming Mouse

Model No.: Covert Varmint

FCC ID: 2A3CGCOVERTVARMI

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 31 Aug., 2021

Date of Test: 31 Aug., to 16 Sep., 2021

Date of report issued: 17 Sep., 2021

Test Result: PASS *

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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^{*} In the configuration tested, the EUT complied with the standards specified above.





Version

Version No.	Date	Description
00	17 Sep., 2021	Original

Tested by:	Mike ou	Date:	17 Sep., 2021	
	Test Engineer			

Winner Thang
Project Engineer Reviewed by: Date: 17 Sep., 2021





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Project No.: JYTSZE2108130



4 Test Summary

Test Item	Section in CFR 47	Result	
Conducted Emission	Part 15.107	Pass	
Radiated Emission	Part 15.109	Pass	

Remark:

- 1. Pass: The EUT complies with the essential requirements in the standard.
- 2. N/A: The EUT not applicable of the test item.

Test Method: ANSI C63.4:2014

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5 General Information

5.1 Client Information

Applicant:	Eluktronics Inc	
Address:	861 Newtown Yardley Road Newtown, Pennsylvania, USA 18940	
Manufacturer:	Eluktronics Inc	
Address:	861 Newtown Yardley Road Newtown, Pennsylvania, USA 18940	

5.2 General Description of E.U.T.

Product Name:	Wireless eSports Gaming Mouse
Model No.:	Covert Varmint
Power supply:	Rechargeable Li-ion Battery DC3.7V, 500mAh
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

5.3 Test Mode and test samples plans

Operating mode	Detail description
PC mode	Keep the EUT in Downloading mode(Worst case)

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

Test Samples Plans:

Samples Number	Used for Test Items
1#	Conducted Emission
1#	Radiated Emission
1#	EUT constructional details
Pomark: Jian Van Testing Group She	anzhan Co. I td. is anly responsible for the test project data of the above samples

Remark: JianYan Testing Group Shenzhen Co., Ltd. is only responsible for the test project data of the above samples, and will keep the above samples for a month.

5.4 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%)
Conducted Emission (9kHz ~ 150KHz) for V-AMN	3.11 dB
Conducted Emission (150kHz ~ 30MHz) for V-AMN	2.62 dB
Conducted Emission (150kHz ~ 30MHz) for AAN	3.54 dB
Radiated Emission (9kHz ~ 30MHz electric field) for 3m SAC	3.13 dB
Radiated Emission (9kHz ~ 30MHz magnetic field) for 3m SAC	3.13 dB
Radiated Emission (30MHz ~ 1GHz) for 3m SAC	4.45 dB
Radiated Emission (1GHz ~ 18GHz) for 3m SAC	5.34 dB
Radiated Emission (18GHz ~ 40GHz) for 3m SAC	5.34 dB
Radiated Emission (30MHz ~ 1GHz) for 10m SAC	4.32 dB

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5.5 Description of Support Units

Manufacturer	Description	scription Model S		FCC ID/DoC
DELL	PC	OPTIPLEX7070	2J8XSZ2	DoC
DELL	MONITOR	SE2018HR	3M7QPY2	DoC
DELL	KEYBOARD	KB216d	N/A	DoC

5.6 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.

5.7 Description of Cable Used

Cable Type Description		Length	From	То
Detached USB Cable	Shielding	2.05m	EUT	PC/Adapter

5.8 Additions to, deviations, or exclusions from the method

No

5.9 Laboratory Facility

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

• FCC - Designation No.: CN1211

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

• ISED - CAB identifier.: CN0021

The 3m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

5.10 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

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Email: info-JYTee@lets.com, Website: http://www.ccis-cb.com

JianYan Testing Group Shenzhen Co., Ltd.

No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

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5.11 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
3m SAC	ETS	RFD-100	Q1984	04-14-2021	04-13-2024
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-044	03-07-2021	03-06-2022
BiConiLog Antenna	SCHWARZBECK	VULB9163	9163-1246	03-07-2021	03-06-2022
Biconical Antenna	SCHWARZBECK	VUBA 9117	9117#359	06-17-2021	06-17-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	912D-916	03-07-2021	03-06-2022
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1067	04-02-2021	04-01-2022
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1068	04-02-2021	04-01-2022
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-03-2021	03-02-2022
Spectrum analyzer	Keysight	N9010B	MY60240202	11-27-2020	11-26-2021
Simulated Station	Anritsu	MT8820C	6201026545	03-03-2021	03-02-2022
Low Pre-amplifier	SCHWARZBECK	BBV9743B	00305	03-07-2021	03-06-2022
High Pre-amplifier	SKET	LNPA_0118G-50	MF280208233	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-1G-NN-8M	JYT3M-1	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-18G-NN-8M	JYT3M-2	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-1G-BB-5M	JYT3M-3	03-07-2021	03-06-2022
Cable	Bost	JYT3M-40G-SS-8M	JYT3M-4	04-02-2021	04-01-2022
EMI Test Software	Tonscend	TS+		Version:3.0.0.1	
10m SAC	ETS	RFSD-100-F/A	Q2005	04-28-2021	04-27-2024
BiConiLog Antenna	SCHWARZBECK	VULB 9168	1249	04-02-2021	04-01-2022
BiConiLog Antenna	SCHWARZBECK	VULB 9168	1250	04-02-2021	04-01-2022
EMI Test Receiver	R&S	ESR 3	102800	04-08-2021	04-07-2022
EMI Test Receiver	R&S	ESR 3	102802	04-08-2021	04-07-2022
Low Pre-amplifier	Bost	LNA 0920N	2016	04-06-2021	04-05-2022
Low Pre-amplifier	Bost	LNA 0920N	2019	04-06-2021	04-05-2022
Cable	Bost	JYT10M-1G-NN-10M	JYT10M-1	04-02-2021	04-01-2022
Cable	Bost	JYT10M-1G-NN-10M	JYT10M-2	04-02-2021	04-01-2022
Test Software	R&S	EMC32	Version: 10.50.40		

Conducted Emission:										
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)					
EMI Test Receiver	Rohde & Schwarz	ESCI 3	101189	03-03-2021	03-02-2022					
LISN	Rohde & Schwarz	ENV432	101602	04-06-2021	04-05-2022					
LISN	Rohde & Schwarz	ESH3-Z5	843862/010	06-18-2020	06-17-2022					
ISN	Schwarzbeck	CAT3 8158	#96	03-03-2021	03-02-2022					
ISN	Schwarzbeck	CAT5 8158	#166	03-03-2021	03-02-2022					
ISN	Schwarzbeck	NTFM 8158	#126	03-03-2021	03-02-2022					
RF Switch	TOP PRECISION	RSU0301	N/A	03-03-2021	03-02-2022					
Cable	Bost	JYTCE-1G-NN-2M	JYTCE-1	03-03-2021	03-02-2022					
Cable	Bost	JYTCE-1G-BN-3M	JYTCE-2	03-03-2021	03-02-2022					
EMI Test Software	AUDIX	E3	Version: 6.110919b							

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Test results and Measurement Data

6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.107					
Test Frequency Range:	150kHz to 30MHz					
Class / Severity:	Class B					
Receiver setup:	RBW=9kHz, VBW=30kHz					
Limit:	Frequency range (MHz)	Limit	(dBµV)			
	,	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56 60	46			
	0.5-30		50			
Test setup:	* Decreases with the logarithm Reference Plane	or the frequency.				
Test procedure	AUX Equipment E.U.T Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	EMI Receiver				
rest procedure	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4(latest version) on conducted measurement. 					
Test Instruments:	Refer to section 5.11 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Pass					

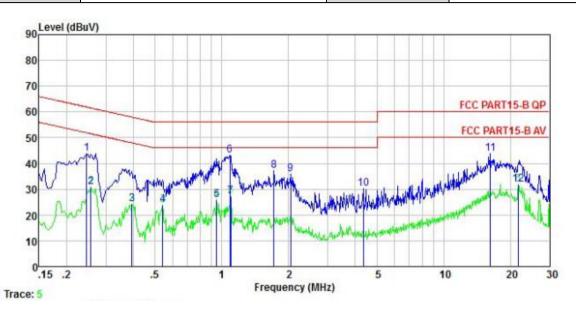
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Measurement data:

Product name:	Wireless eSports Gaming Mouse	Product model:	Covert Varmint
Test by:	Mike	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
6.	MHz	dBu∀	d₿	<u>dB</u>	d₿	dBu₹	dBu∜	dB	
1	0.246	33.69	10.25	-0.21	0.01	43.74	61.91	-18.17	QP
2	0.258	20.80	10.25	-0.22	0.01	30.84	51.51	-20.67	Average
3	0.393	13.41	10.28	0.38	0.04	24.11	47.99	-23.88	Average
1 2 3 4 5 6 7 8 9	0.541	13.88	10.29	-0.36	0.03	23.84	46.00	-22.16	Average
5	0.948	15.15	10.32	0.32	0.05	25.84	46.00	-20.16	Average
6	1.088	32.31	10.32	0.37	0.07	43.07	56.00	-12.93	QP
7	1.100	16.39	10.32	0.36	0.07	27.14	46.00	-18.86	Average
8	1.716	26.99	10.33	-0.15	0.17	37.34	56.00	-18.66	QP
9	2.044	25.56	10.33	-0.31	0.20	35.78	56.00	-20.22	QP
10	4.338	19.88	10.40	0.00	0.08	30.36	56.00	-25.64	QP
11	16.226	29.91	10.81	2.91	0.16	43.79	60.00	-16.21	QP
12	21.715	19.84	10.93	0.92	0.16	31.85	50.00	-18.15	Average

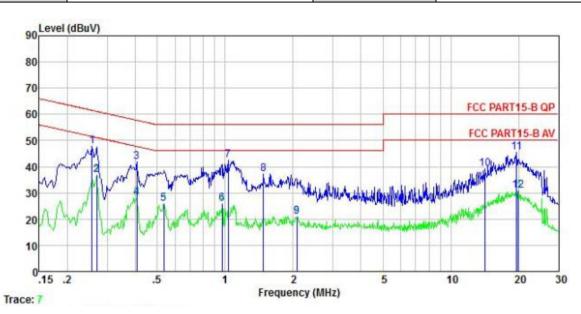
Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss.

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Product name:	Wireless eSports Gaming Mouse	Product model:	Covert Varmint
Test by:	Mike	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu∜	dB	<u>dB</u>	d₿	dBu₹	dBu∜	<u>dB</u>	
1	0.258	37.56	10.24	0.01	0.01	47.82	61.51	-13.69	QP
2	0.270	26.47	10.24	0.01	0.02	36.74	51.12	-14.38	Average
3	0.406	31.43	10.27	-0.05	0.04	41.69	57.73	-16.04	QP
1 2 3 4 5 6 7 8 9	0.406	17.97	10.27	-0.05	0.04	28.23	47.73	-19.50	Average
5	0.535	15.70	10.28	0.03	0.03	26.04	46.00	-19.96	Average
6	0.968	15.38	10.31	0.08	0.05	25.82	46.00	-20.18	Average
7	1.032	32.03	10.31	0.08	0.06	42.48	56.00	-13.52	QP
8	1.480	26.61	10.32	0.13	0.14	37.20	56.00	-18.80	QP
9	2.077	10.35	10.32	0.18	0.20	21.05	46.00	-24.95	Average
10	14.138	25.59	10.71	2.84	0.12	39.26		-20.74	
11	19.532	33.91	10.87	0.48	0.15	45.41	60.00	-14.59	QP
12	19.950	19.53	10.88	0.23	0.19	30.83			Average

Notes

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss.

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6.2 Radiated Emission

Test Requirement:	FCC Part 15 B Section 15.109									
Test Frequency Range:	30MHz to 6000MHz									
Test site:		Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)								
		Detecto		RBW	VBW	Remark				
Receiver setup:	Frequency 30MHz-1GHz	Quasi-pe		120kHz	300kHz	Quasi-peak Value				
		Peak		1MHz	3MHz	Peak Value				
	Δρογο 1(ΞΗ7					Average Value				
Limit:	Frequenc		Lim	it (dBuV/m @		Remark				
	30MHz-88MHz 30.0 Quasi-peak Val									
	88MHz-216	MHz		33.5		Quasi-peak Value				
	216MHz-960			36.0		Quasi-peak Value				
	960MHz-10			44.0		Quasi-peak Value				
	Frequenc	;y	Lim	nit (dBuV/m	@3m)	Remark				
	Above 1G	Hz		54.0		Average Value				
Test setup:	131376			74.0		Peak Value				
Test Procedure:	Ground Plane Above 1GHz	EUT able) Gr		Pre- Amplifier C	Antenna Tower Antenna Tower Antenna Tower Antenna Tower					
rest Flocedule.	ground at a 2 1GHz). The s the highest r 2. The EUT wa	10 meter chable was roadiation.	ambe otated eters(er (below 1G d 360 degree below 1GHz	Hz)or 3 mes to deter	neters above the neter chamber (above mine the position of ters (above 1GHz) the was mounted on				

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	the top of a variable-height antenna tower.			
	 The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 			
	4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.			
	5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.			
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.			
Test Instruments:	Refer to section 5.11 for details			
Test mode:	Refer to section 5.3 for details			
Test results:	Passed			
Remark:	All of the observed value above 6GHz ware the niose floor , which were no recorded			

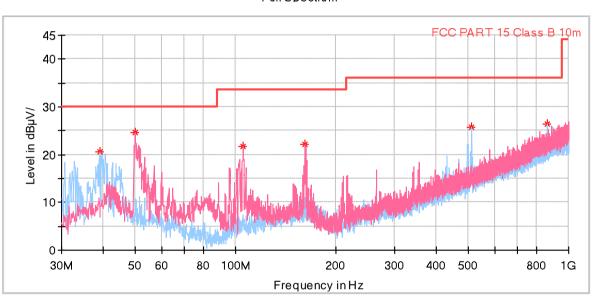


Measurement Data:

Below 1GHz:

Product Name:	Wireless eSports Gaming Mouse	Product Model:	Covert Varmint
Test By:	Mike	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical & Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%





Critical Fregs

-	Frequency↓	MaxPeak↓	Limit↓	Margin↓	Height↓	Pol. ₁	Azimuth↓	Corr.↓
	(MHz).s	(dB # V/m).	(dB # V/m).	(dB). ₁	(cm). ₁		(deg)	(dB/m). ₃
•	39.021000 _{.1}	20.64.	30.00 .,	9.36.	100.0.		286.0.	-15.9.
-	49.885000 _{.1}	24.66 .1	30.00 .1	5.34.	100.0 .1	V .1	322.0.	-15.8.
•	105.466000 _{.1}	21.73.	33.50 _{.1}	11.77.	100.0 .5	V.,	132.0.	-18.4.
-	161.144000 _{.1}	22.22.	33.50.	11.28.	100.0.1	V .1	91.0.	-15.5.
•	509.762000 _{.1}	25.76.	36.00 _{.1}	10.24.	100.0.	Ha	310.0.	-8.9.
•	864.103000 _{.1}	26.48 . ₁	36.00 _{.1}	9.52.	100.0 .1	Ha	18.0.	- 1.9 .,

Remark:

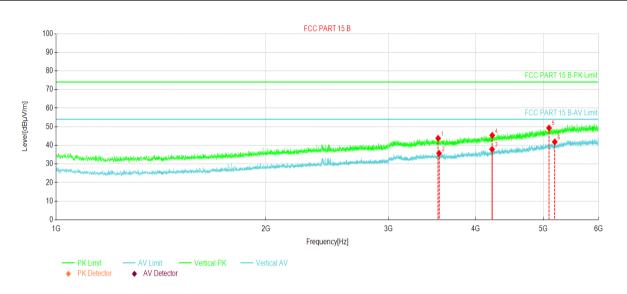
- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3. The Aux Factor is a notch filter switch box loss, this item is not used.

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Above 1GHz:

Product Name:	Wireless eSports Gaming Mouse	Product Model:	Covert Varmint
Test By:	Mike	Test mode:	PC mode
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



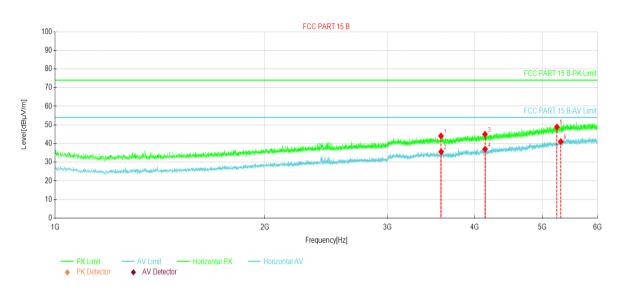
Suspe	Suspected Data List∂											
NO.∂	Freq.⊌	Reading⊬	Level⊬	Factor	Limit⊬	Margin⊬	Trace	Delerity				
NO.₽	[MHz]∂	[dBµV/m]∂	[dBµV/m]∂	[dB]∂	[dBµV/m]∂	[dB]∂	Trace₽	Polarity∉				
1₽	3532.50	58.62₽	43.76₽	-14.86₽	74.00₽	30.24	PK₽	Vertical∉				
2₽	3543.75	50.57₽	35.70₽	-14.87₽	54.00₽	18.30₽	AV₽	Vertical₽				
3₽	4221.87	49.68₽	37.83₽	-11.85₽	54.00₽	16.17₽	AV₽	Vertical₽				
4₽	4223.75	57.23₽	45.38₽	-11.85₽	74.00₽	28.62₽	PK₽	Vertical∉⊸				
5₽	5095.62	57.24₽	49.33₽	-7.91₽	74.00₽	24.67₽	PK₽	Vertical∉⊸				
6₽	5193.12	49.25₽	41.83₽	-7. 42 ₽	54.00₽	12.17₽	AV₽	Vertical∉⊸				

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



Product Name:	Wireless eSports Gaming Mouse	Product Model: Covert Varmint			
Test By:	Mike	Test mode:	PC mode		
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Horizontal		
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%		



Suspe	Suspected Data List⊮									
NO -	Freq.⊌	Reading⊬	Level⊬	Factor⊌	Limit⊬	Margin⊬	Trans	Dolority		
NO.₽	[MHz]∂	[dBµV/m]₽	[dBµV/m]∂	[dB]∂	[dBµV/m]∂	[dB] <i>₀</i>	Trace	Polarity₽		
1₽	3577.50	58.94₽	44.05₽	-14.89₽	74.00₽	29.95₽	PK₽	Horizontal₽		
2₽	3580.00	50.51₽	35.61₽	-14.90₽	54.00₽	18.39₽	AV₽	Horizontal₽		
3₽	4137.50	57.27₽	44.97₽	-12.30₽	74.00₽	29.03	PK₽	Horizontal₽		
4₽	4138.75	49.28₽	36.98₽	-12.30₽	54.00₽	17.02₽	AV₽	Horizontal -		
5₽	5248.12	55.88₽	48.85₽	-7.03₽	74.00₽	25.15₽	PK₽	Horizontal₽		
6₽	5314.37	47.60₽	41.05₽	-6.55₽	54.00₽	12.95₽	AV₽	Horizontal₽		

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.