

Test Report

Product: Wireless keyboard

Trade Mark: /

Model Number: PC309A

FCC ID: 2A3JH-PC309A

Prepared for

Dongguan Yuzhenrong Trading Co., Ltd.

Room 204, No.74, Humen Xinlian 9th Street, Humen Village, Humen Town,
Dongguan City, Guangdong, China

Prepared by

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TEST RESULT CERTIFICATION

Applicant's Name.....: Dongguan Yuzhenrong Trading Co., Ltd.
Address: Room 204, No.74, Humen Xinlian 9th Street, Humen
Village, Humen Town, Dongguan City, Guangdong, China

Manufacturer's Name: Dongguan Yuzhenrong Trading Co., Ltd.
Address: Room 204, No.74, Humen Xinlian 9th Street, Humen
Village, Humen Town, Dongguan City, Guangdong, China

Product description

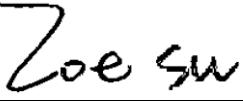
Product name: Wireless keyboard
Model Number: PC309A
Standards: FCC Part 15.249
Test procedure: IEEE/ANSI C63.10-2020

This device described above has been tested by Shenzhen HongBiao Certification& Testing Co., Ltd and the test results show that the equipment under test (EUT) is in compliance with the EMC requirements. And it is applicable only to the tested sample identified in the report.

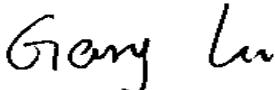
Date of Test

Date (s) of performance of tests: November 13, 2023 ~ November 24, 2023
Test Result: **Pass**

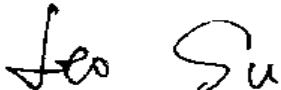
Testing Engineer

: 
(Z o e S u)

Technical Manager

: 
(G a r y L u)

Authorized Signatory

: 
(L e o S u)

Revision History

1 General Description

1.1 Description of EUT

Product name:	Wireless keyboard
Model name:	PC309A
Series Model:	/
Different of series model:	N/A
Operation frequency:	2408 - 2474 MHz
Modulation type:	GFSK
Bit Rate of transmitter:	2 Mbps
Antenna type:	PCB Antenna
Antenna gain:	-0.61dBi
Hardware version:	MA1386N
Software version:	V1.0
Power supply:	DC 3V by AA*2 battery

1.2 Test Mode

Test Mode	Channel	Frequency (MHz)
1	Low	2408
2	Middle	2440
3	High	2474

1.3 Operation Channel list

Channel No.	Frequency (MHz)						
01	2408	10	2426	19	2444	28	2462
02	2410	11	2428	20	2446	29	2464
03	2412	12	2430	21	2448	30	2466
04	2414	13	2432	22	2450	31	2468
05	2416	14	2434	23	2452	32	2470
06	2418	15	2436	24	2454	33	2472
07	2420	16	2438	25	2456	34	2474
08	2422	17	2440	26	2458	-	-
09	2424	18	2442	27	2460	-	-

1.4 Test Setup

See photographs of the test setup in the report for the actual setup and connections between EUT and support equipment.

1.5 Ancillary Equipment

Equipment	Model	S/N	Manufacturer
-	-	-	-

Equipment	Length (cm)	Shielded/Unshielded	With/Without Ferrite
-	-	-	-

2 Summary of Test Result

No.	Standard Section	Test Item	Result	Remark
1	FCC Part15.203	Antenna Requirement	Pass	
2	FCC Part15.207	AC power line conducted emission	N/A	
3	FCC Part15.249(d)	Radiated spurious emission	Pass	
4	FCC Part 15.215	20dB and 99% Bandwidth	Pass	

3 Test Facilities and Accreditations

3.1 Test Laboratory

Test Site	Shenzhen HongBiao Certification& Testing Co., Ltd
Test Site Location	Room 102, 201, Building 2, Yuanwanggu RFID Industrial Park, Tongguan Road, Tianliao Community, Yutang Street, Guangming District, Shenzhen, China
Telephone:	(86-755) 2998 9321
Fax:	(86-755) 2998 5110
FCC Registration No.:	CN1341
A2LA Certificate No.:	6765.01

3.2 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15°C~35°C
Relative Humidity:	20%~75%
Air Pressure:	98kPa~101kPa

3.3 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

Measurement Frequency Range	U, (dB)	Note
RF frequency	2×10^{-5}	
RF power, conducted	± 0.57 dB	
Conducted emission(150kHz~30MHz)	± 2.5 dB	
Radiated emission(30MHz~1GHz)	± 4.2 dB	
Radiated emission (above 1GHz)	± 4.7 dB	
Temperature	± 1 degree	
Humidity	± 5 %	

3.4 Test Software

Software name	Manufacturer	Model	Version
EMI Measurement	Farad	EZ-EMC	V1.1.4.2
Conducted test system	MWRF-test	MTS 8310	V2.0.0

4 List of Test Equipment

Radiation emission							
Item	Equipment No.	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	HB-E001	Horn Antenna	Schwarzbeck	BBHA 9120D	02592	2022-04-02	2024-04-01
2	HB-E002	Biconical log-periodic composite antenna	Schwarzbeck	VULB 9168	01340	2022-04-06	2024-04-05
3	HB-E003	SHF-EHF Horn	Schwarzbeck	BBHA 91270	01193	2022-04-02	2024-04-01
4	HB-E004	Preamplifier	Noyetec	LAN-09 10	NYCM1420 101	2023-05-11	2024-05-10
5	HB-E005	Preamplifier	Noyetec	LAN-011 8	NYCM1420 102	2023-05-12	2024-05-11
6	HB-E006	Preamplifier	Noyetec	LAN-18 40	NYCM1420 103	2023-06-11	2024-06-10
7	HB-E007	EMI TEST RECEIVER	R&S	ESR7	102520	2023-05-12	2024-05-11
8	HB-E009	POSITINAL COTROLLE R	Noyetec	N/A	N/A	/	/
9	HB-E013	RF switch	Noyetec	NY-RF4	NY0CM142 0204	/	/
10	HB-E066	Illuminance Tester	TASI	TA8121	N/A	2023-05-11	2024-05-10
11	HB-E075	Active loop antenna	Schwarzbeck	FMZB 1519B	1519B-245	2022-07-24	2024-07-23

Conduction emission							
Item	Equipment No.	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	HB-E014	4 Path V-LISN	Schwarzbeck	NNLK 8121	00770	2023-05-12	2024-05-11
2	HB-E015	Pulse Limiter	Schwarzbeck	VTSD 9561-F	00949	2023-05-12	2024-05-11
3	HB-E016	ZN23201	Noyetec	ZN23201	N/A	2023-05-11	2024-05-10
4	HB-E059	Attenuator	Xianghua	TS2-6-1	220215166	2023-05-12	2024-05-11
5	HB-E069	EMI TEST RECEIVER	R&S	ESCI	N/A	2023-05-12	2024-05-11

RF							
Item	Equipment No.	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	HB-E041	MXG Analog Signal Generator	Agilent	N5181A	MY47070421	2023-05-11	2024-05-10
2	HB-E042	WIDEBAND RADIO COMMUNICA	R&S	CMW500	132108	2023-05-11	2024-05-10

		TION TESTER					
3	HB-E043	MXG Analog Signal Generator	Agilent	N5182A	US46240335	2023-05-11	2024-05-10
4	HB-E044	Signal& spectrum Analyzer	R&S	FSV3044	101264	2023-05-11	2024-05-10
5	HB-E045	RF Control Box	Noyetec	NY100-R FCB	N/A	/	/
6	HB-E058	Thermometer Clock Humidity Monitor	N/A	HTC-1	N/A	/	/
7	HB-E077	PXA Signal Analyzer	Agilent	N9030A	N/A	2023-05-11	2024-05-10

Note: the calibration interval of the above test instruments is 12&24 months and the calibrations are traceable to international system unit (SI).

5 Test Item And Results

5.1 Antenna Requirement

5.1.1 Standard Requirement

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device

5.1.2 Test Result

The antenna is an PCB antenna, which was permanently affixed to the device and un-replaced, complies with 15.203. In addition, the maximum antenna gain is -0.61dBi.

5.2 Conducted Emission

5.2.1 Limits

Limits – Class B		
Frequency (MHz)	Limit (dB μ V)	
	Quasi-Peak	Average
0.15 to 0.5	66 to 56*	56 to 46*
0.5 to 5	56	46
5 to 30	60	50

Note:

- the tighter limit applies at the band edges.
- the limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

5.2.2 Test Procedures

a) EUT Operating Conditions

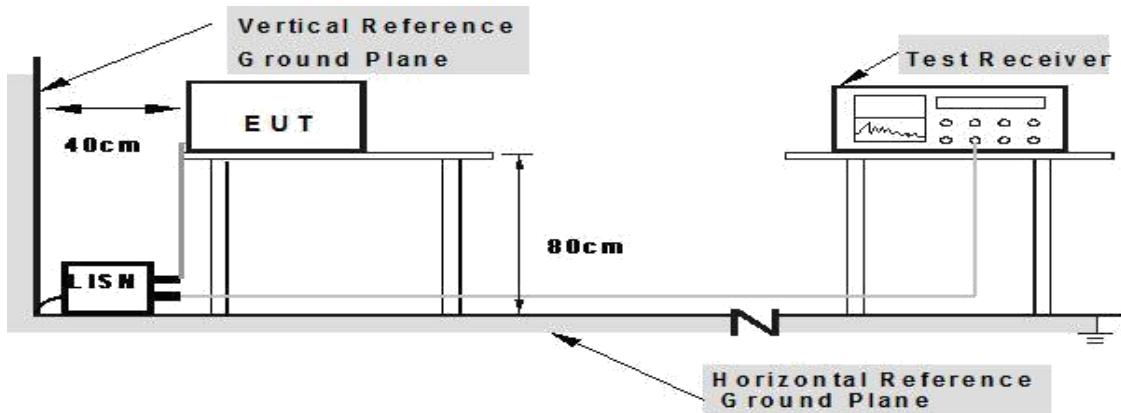
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

b) The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

- c) The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- d) Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- e) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- f) LISN is at least 80 cm from nearest part of EUT chassis.
- g) For the actual test configuration, please refer to the related Item – photographs of the test setup.

5.2.3 Test Setup



5.2.4 Test Result

Because the product power is supply through DC 3V by AA*2 battery, so not applicable.

5.3 Radiated Emission

5.3.1 Limits

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.

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

FCC PART 15.249(a);

Except as provided in paragraph (a) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Frequency (MHz)	Field Strength of Fundamental (mV/m)	Field Strength of Harmonics (μV/m)
902-928	50	500
2400-2483.5	50	500
5725-5875	50	500

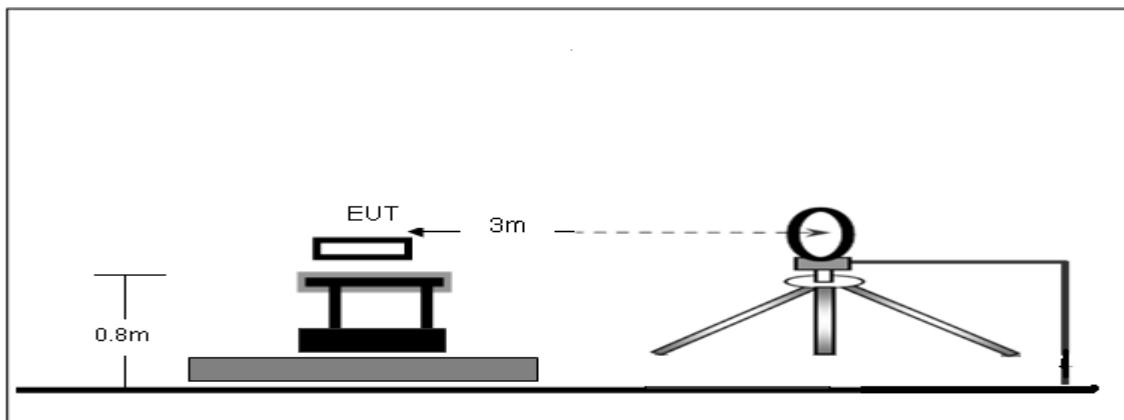
5.3.2 Test Procedures

- The EUT is placed on a turntable, which is 0.8m above ground plane for test frequency range below 1GHz, and 1.5m above ground plane for test frequency range above 1GHz.
- EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- Use the following spectrum analyser settings:

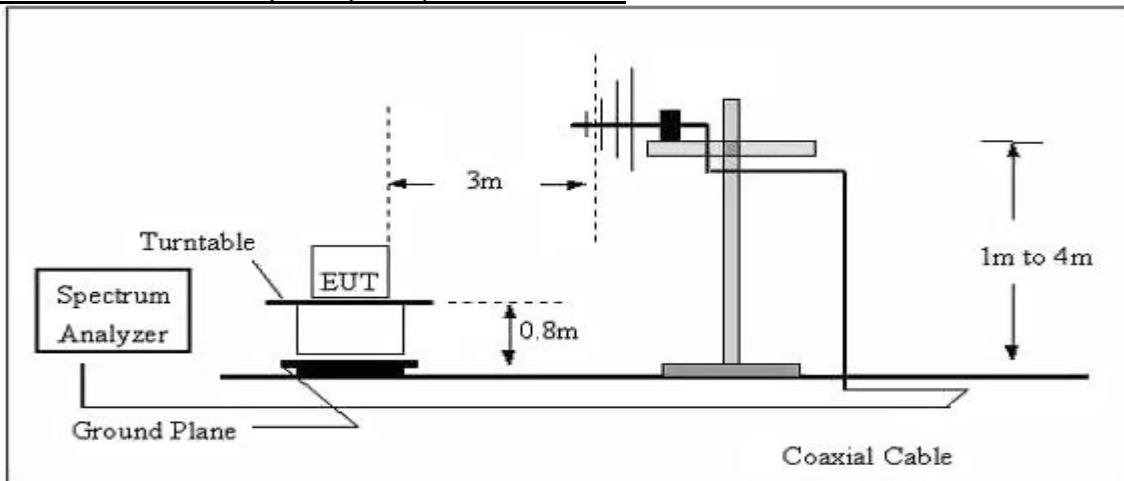
1. Span = wide enough to fully capture the emission being measured
 2. RBW = 1 MHz for $f \geq 1\text{GHz}$, 100 kHz for $f < 1\text{ GHz}$
 3. VBW \geq RBW, Sweep = auto
 4. Detector function = peak
 5. Trace = max hold
- d) Follow the guidelines in ANSI C63.4-2014 with respect to maximizing the emission by rotating the EUT, adjusting the measurement antenna height and polarization, etc. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, submit this data. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- e) The peak level, once corrected, must comply with the limit specified in Section 15.209. Set the RBW = 1MHz, VBW = 10Hz, Detector = PK for AV value, while maintaining all of the other instrument settings.
- f) For the actual test configuration, please refer to the related item – EUT test photos.

5.3.3 Test Setup

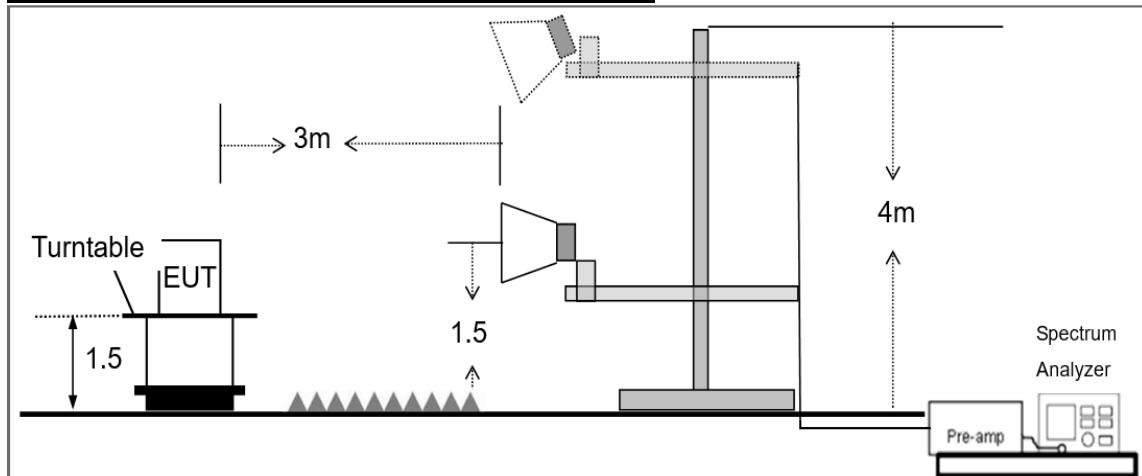
Radiated Emission Test-Up Frequency Below 30MHz



Radiated Emission Test-Up Frequency 30MHz~1GHz



Radiated emission test-up frequency above 1GHz



5.3.4 Test Result

Below 30MHz

EUT:	Wireless keyboard	Model Name:	PC309A
Pressure:	1010 hPa	Test Voltage:	DC 3V from battery
Test Mode:	TX	Polarization:	--

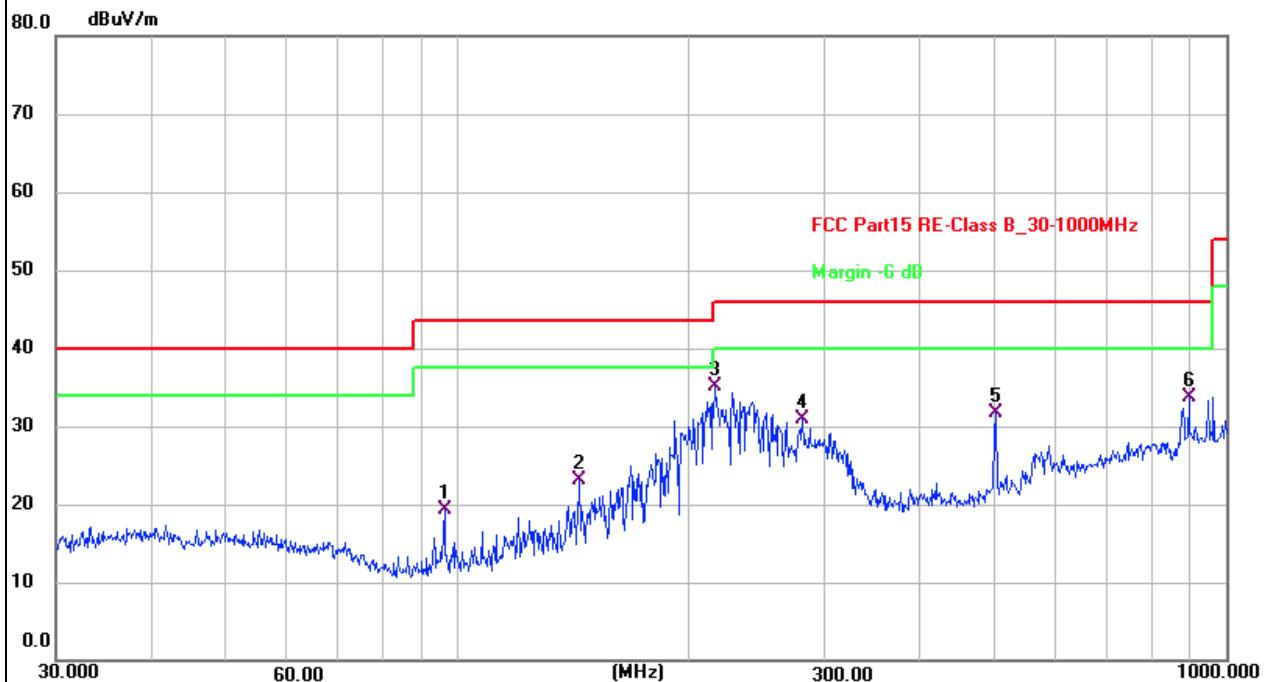
Freq. (MHz)	Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	State
--	--	--	--	Pass
--	--	--	--	Pass

Note:

1. For 9kHz-30MHz, the amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Distance extrapolation factor = $40 \log (\text{specific distance}/\text{test distance})$ (dB);
3. Limit line = specific limits (dBuV) + distance extrapolation factor.

Frequency range (30MHz – 1GHz)

EUT:	Wireless keyboard	Model Name:	PC309A
Test Mode:	TX	Phase :	Horizontal
Test Voltage:	DC 3V from battery		

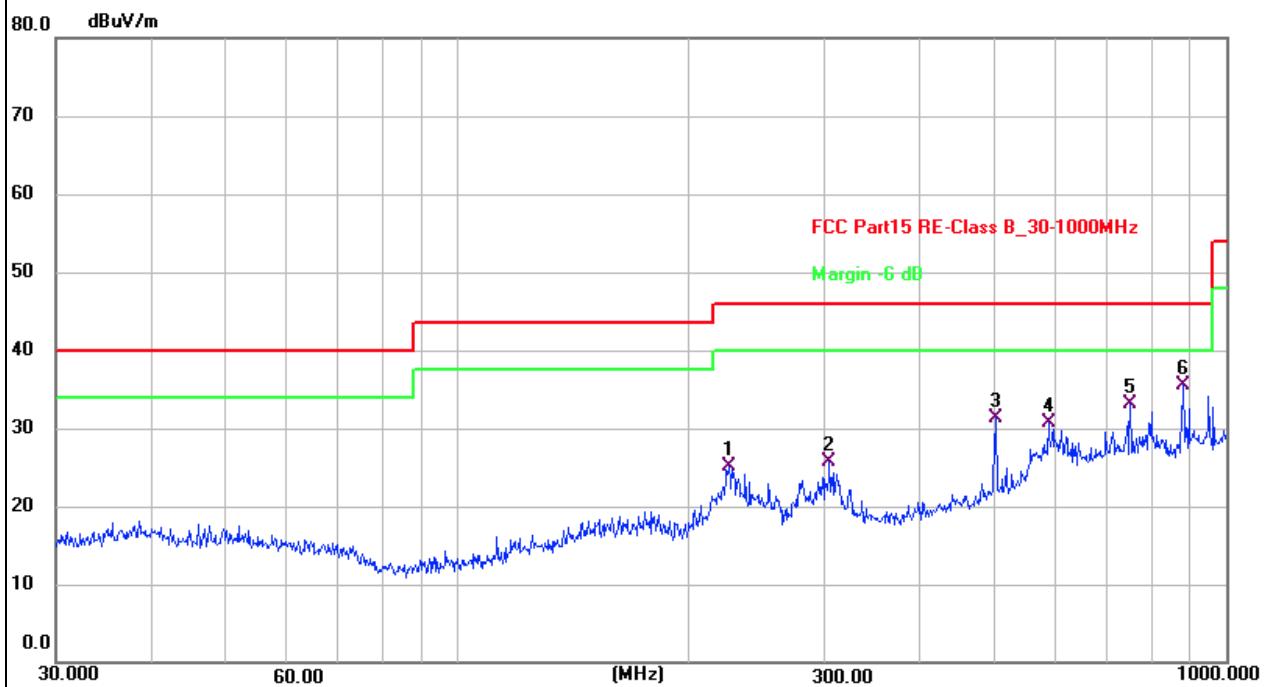


No.	Frequency (MHz)	Reading (dBm)	Factor (dB/m)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	96.0985	32.20	-12.95	19.25	43.50	-24.25	QP	100	19	P	
2	143.8295	32.20	-9.12	23.08	43.50	-20.42	QP	100	5	P	
3 *	216.0240	46.60	-11.44	35.16	46.00	-10.84	QP	100	348	P	
4	281.0074	39.82	-8.82	31.00	46.00	-15.00	QP	100	80	P	
5	501.1790	35.09	-3.45	31.64	46.00	-14.36	QP	100	277	P	
6	893.8566	30.12	3.61	33.73	46.00	-12.27	QP	100	286	P	

Remarks:

1. Mesurement Level = Reading level + Correct Factor, Margin = Mesurement Level – Limit.
- 2.The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3.All test modes were pre-tested, but we only recorded the worst case in this report.

EUT:	Wireless keyboard	Model Name:	PC309A
Test Mode:	TX	Phase :	Vertical
Test Voltage:	DC 3V from battery		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	225.3080	35.96	-10.94	25.02	46.00	-20.98	QP	100	30	P	
2	304.6099	34.00	-8.28	25.72	46.00	-20.28	QP	100	11	P	
3	501.1790	34.80	-3.45	31.35	46.00	-14.65	QP	100	72	P	
4	586.8437	32.17	-1.50	30.67	46.00	-15.33	QP	100	153	P	
5	750.1083	32.18	0.83	33.01	46.00	-12.99	QP	100	328	P	
6 *	878.3214	32.41	3.01	35.42	46.00	-10.58	QP	100	297	P	

Remarks:

1. Mesurement Level = Reading level + Correct Factor, Margin = Mesurement Level – Limit.
- 2.The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3.All test modes were pre-tested, but we only recorded the worst case in this report.

5.3.5 Band edge—Field strength of fundamental

Frequency (MHz)	Ant. Polarization	Emission level dB μ V/m	Limits dB μ V/m	Detector	Result
2408	H	84.25	114		PK
2408	H	75.91	94	AV	PASS
2408	V	81.05	114	PK	PASS
2408	V	73.47	94	AV	PASS

Frequency (MHz)	Ant. Polarization	Emission level dB μ V/m	Limits dB μ V/m	Detector	Result
2440	H	86.74	114		PK
2440	H	76.35	94	AV	PASS
2440	V	82.41	114	PK	PASS
2440	V	73.89	94	AV	PASS

Frequency (MHz)	Ant. Polarization	Emission level dB μ V/m	Limits dB μ V/m	Detector	Result
2474	H	83.94	114		PK
2474	H	72.02	94	AV	PASS
2474	V	80.94	114	PK	PASS
2474	V	70.60	94	AV	PASS

1GHz-25GHz

Frequency (MHz)	Read Level (dB μ V)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Remark	Comment
Low Channel (2408 MHz)(GFSK)--Above 1G									
4816	64.38	5.21	35.59	44.30	60.88	74.00	-13.12	Pk	Vertical
4816	49.57	5.21	35.59	44.30	46.07	54.00	-7.93	AV	Vertical
7224	60.11	6.48	36.27	44.60	58.26	74.00	-15.74	Pk	Vertical
7224	44.28	6.48	36.27	44.60	42.43	54.00	-11.57	AV	Vertical
4816	64.33	5.21	35.55	44.30	60.79	74.00	-13.21	Pk	Horizontal
4816	49.12	5.21	35.55	44.30	45.58	54.00	-8.42	AV	Horizontal
7224	60.60	6.48	36.27	44.52	58.83	74.00	-15.17	Pk	Horizontal
7224	43.51	6.48	36.27	44.52	41.74	54.00	-12.26	AV	Horizontal
Mid Channel (2440 MHz)(GFSK)--Above 1G									
4880	65.77	5.21	35.66	44.20	62.44	74.00	-11.56	Pk	Vertical
4880	49.49	5.21	35.66	44.20	46.16	54.00	-7.84	AV	Vertical
7320	60.05	7.10	36.50	44.43	59.22	74.00	-14.78	Pk	Vertical
7320	43.46	7.10	36.50	44.43	42.63	54.00	-11.37	AV	Vertical
4880	64.51	5.21	35.66	44.20	61.18	74.00	-12.82	Pk	Horizontal
4880	49.11	5.21	35.66	44.20	45.78	54.00	-8.22	AV	Horizontal
7320	60.18	7.10	36.50	44.43	59.35	74.00	-14.65	Pk	Horizontal
7320	44.24	7.10	36.50	44.43	43.41	54.00	-10.59	AV	Horizontal
High Channel (2474 MHz)(GFSK)-- Above 1G									
4948	65.61	5.21	35.52	44.21	62.13	74.00	-11.87	Pk	Vertical
4948	49.49	5.21	35.52	44.21	46.01	54.00	-7.99	AV	Vertical
7422	60.49	7.10	36.53	44.60	59.52	74.00	-14.48	Pk	Vertical
7422	44.78	7.10	36.53	44.60	43.81	54.00	-10.19	AV	Vertical
4948	64.30	5.21	35.52	44.21	60.82	74.00	-13.18	Pk	Horizontal
4948	49.36	5.21	35.52	44.21	45.88	54.00	-8.12	AV	Horizontal
7422	60.62	7.10	36.53	44.60	59.65	74.00	-14.35	Pk	Horizontal
7422	45.09	7.10	36.53	44.60	44.12	54.00	-9.88	AV	Horizontal

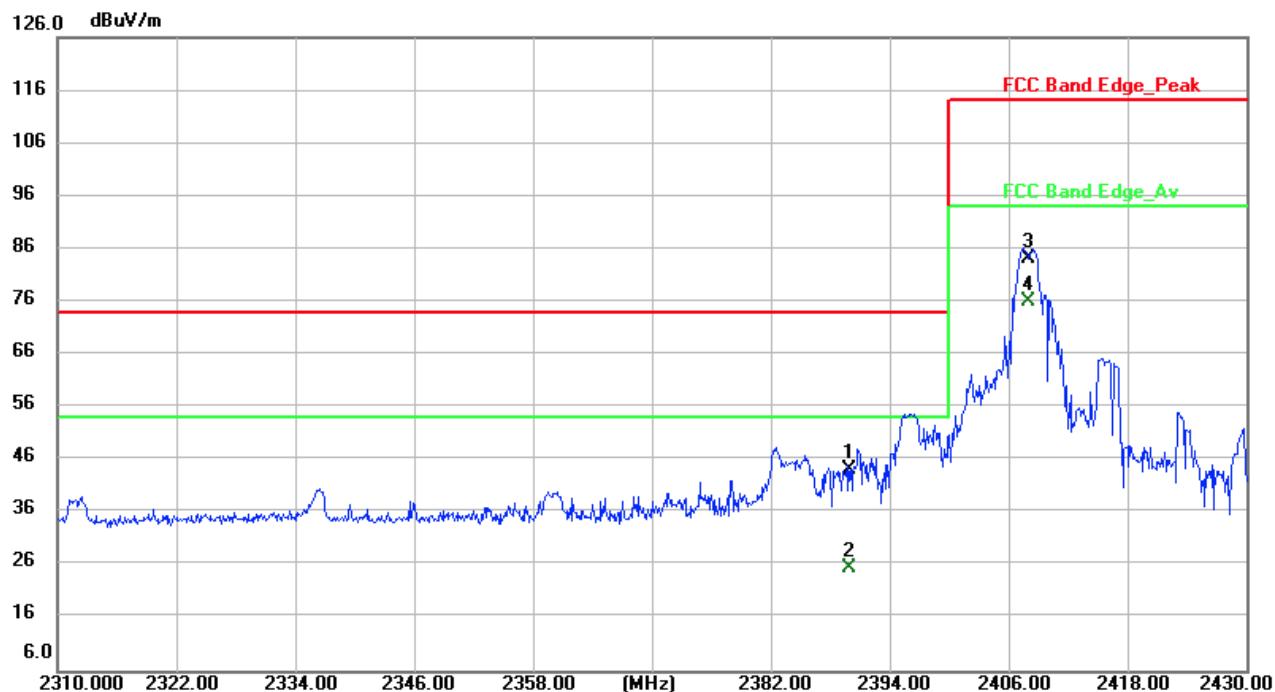
Note:

1. All Readings are Peak Value (VBW=3MHz) and AV Value (VBW=10Hz).
2. Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor.

5.3.6 Band edge-radiated

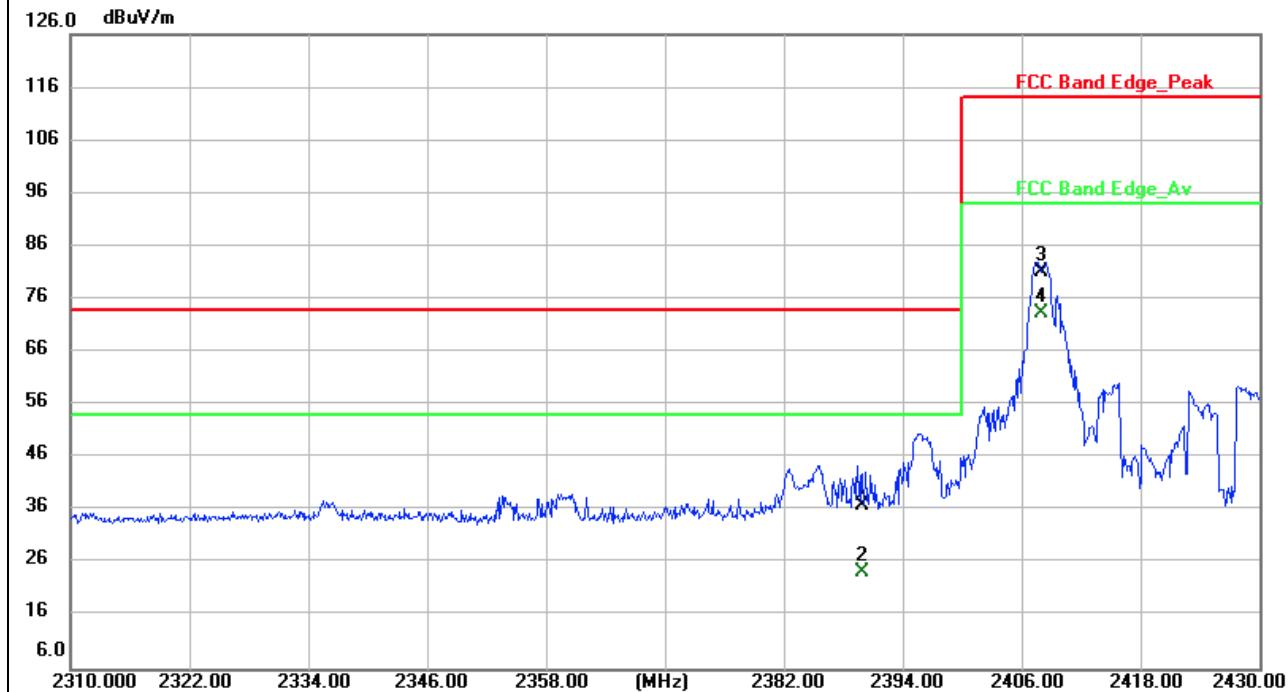
All the modulation modes have been tested, and the worst result was report as below:

EUT:	Wireless keyboard	Model Name:	PC309A
Pressure:	1010 hPa	Polarization:	Horizontal
Test voltage:	DC 3V from battery	Test Mode:	TM1



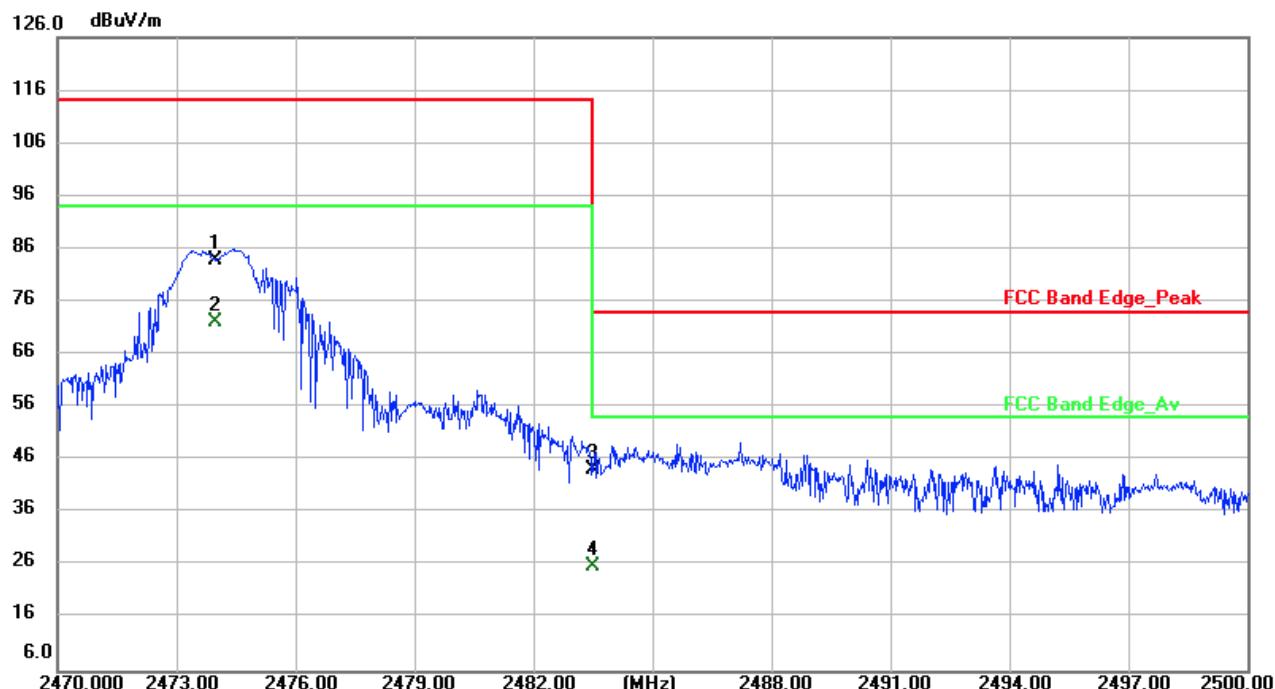
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2390.000	65.32	-20.96	44.36	74.00	-29.64	peak	150	359	P	
2	2390.000	46.63	-20.96	25.67	54.00	-28.33	AVG	150	359	P	
3	2408.000	105.12	-20.87	84.25	114.00	-29.75	peak	150	360	P	
4 *	2408.000	96.78	-20.87	75.91	94.00	-18.09	AVG	150	360	P	

EUT:	Wireless keyboard	Model Name:	PC309A
Pressure:	1010 hPa	Polarization:	Vertical
Test voltage:	DC 3V from battery	Test Mode:	TM1



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2390.000	58.09	-20.96	37.13	74.00	-36.87	peak	150	34	P	
2	2390.000	45.42	-20.96	24.46	54.00	-29.54	AVG	150	34	P	
3	2408.000	101.92	-20.87	81.05	114.00	-32.95	peak	150	55	P	
4 *	2408.000	94.34	-20.87	73.47	94.00	-20.53	AVG	150	55	P	

EUT:	Wireless keyboard	Model Name:	PC309A
Pressure:	1010 hPa	Polarization:	Horizontal
Test voltage:	DC 3V from battery	Test Mode:	TM3



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2474.000	104.49	-20.55	83.94	114.00	-30.06	peak	150	22	P	
2 *	2474.000	92.57	-20.55	72.02	94.00	-21.98	AVG	150	22	P	
3	2483.500	64.83	-20.51	44.32	74.00	-29.68	peak	150	162	P	
4	2483.500	46.36	-20.51	25.85	54.00	-28.15	AVG	150	162	P	

EUT:	Wireless keyboard	Model Name:	PC309A
Pressure:	1010 hPa	Polarization:	Vertical
Test voltage:	DC 3V from battery	Test Mode:	TM3



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2474.000	101.49	-20.55	80.94	114.00	-33.06	peak	150	77	P	
2 *	2474.000	91.15	-20.55	70.60	94.00	-23.40	AVG	150	77	P	
3	2483.500	63.31	-20.51	42.80	74.00	-31.20	peak	150	230	P	
4	2483.500	45.53	-20.51	25.02	54.00	-28.98	AVG	150	230	P	

Note:

1. All Readings are Peak Value (VBW=3MHz) and AV Value (VBW=10Hz).
2. Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor.
3. All other emissions more than 20dB below the limit.

5.4 20dB and 99% Bandwidth

5.4.1 Limit

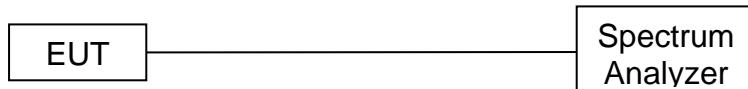
FCC §15.215(c)

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in § 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

5.4.2 Test Procedure

1. Use the following spectrum analyzer settings:
2. For 20 dB bandwidth
3. Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel
4. RBW \geq 1% of the 20 dB bandwidth
5. VBW \geq RBW
6. Sweep = auto
7. Detector function = peak
8. Trace = max hold
9. The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 20 dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 20 dB bandwidth and 99% occupied bandwidth of the emission

5.4.3 Test Setup

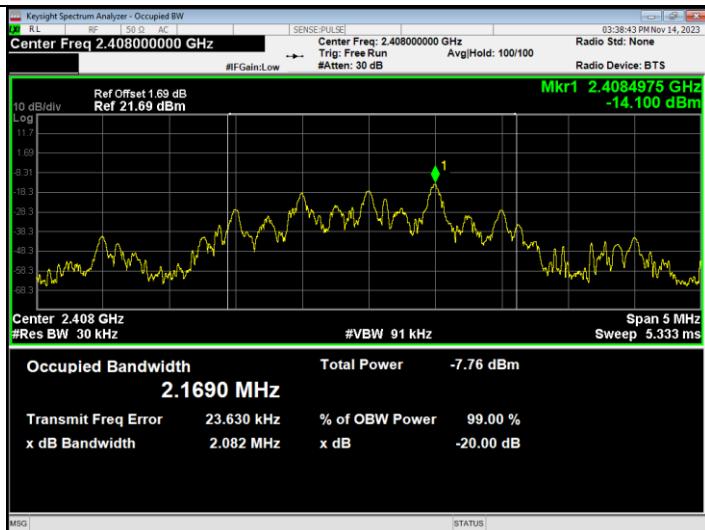


5.4.4 Test Results

Frequency (MHz)	20dB bandwidth (MHz)	99% Bandwidth (MHz)
2408	2.082	2.1690
2440	2.077	2.2391
2474	2.088	2.0769

Test plots

2408



2440



2474



6 Photographs of the Test Setup

Reference to the appendix Test Setup Photos for details.

7 Photographs of the EUT

Reference to the appendix External Photos and Internal Photos for details.

***** END OF REPORT *****