

FCC CERTIFICATION  
On Behalf of  
Comat Electronic (Shenzhen) Co., Ltd.

2.4G Wireless Mouse  
Model No.: Q7G

FCC ID: RTX-Q7G

Prepared for : Comat Electronic (Shenzhen) Co., Ltd.  
Address : No.2 Lane 1, Xin'an 3<sup>rd</sup> 28 District, Baoan, Shenzhen,  
China

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Date of Test : August 17-31, 2012  
Date of Report : August 31, 2012

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APPENDIX I ( TEST CURVES) (28 pages)

## Test Report Certification

### Measurement Procedure Used:

**FCC Rules and Regulations Part 15 Subpart C Section 15.249  
ANSI C63.4: 2009**

The device described above is tested by ACCURATE TECHNOLOGY CO. LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.249 limits. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of ACCURATE TECHNOLOGY CO. LTD.

Date of Test : August 17-31, 2012

Prepared by :

Apple C  
(Engineer)

(Engineer)

**Approved & Authorized Signer :**

George

(Manager)

## 1. GENERAL INFORMATION

### 1.1. Description of Device (EUT)

EUT : 2.4G Wireless Mouse  
 Model Number : Q7G  
 Trade Name : COMAT  
 Power Supply : 3V DC (“AA” batteries 2×)  
 Operate Frequency : 2402.000-2480.000MHz  
 Applicant : Comat Electronic (Shenzhen) Co., Ltd.  
 Address : No.2 Lane 1, Xin'an 3<sup>rd</sup> 28 District, Baoan, Shenzhen, China  
 Manufacturer : Comat Electronic (Shenzhen) Co., Ltd.  
 Address : No.2 Lane 1, Xin'an 3<sup>rd</sup> 28 District, Baoan, Shenzhen, China  
 Date of sample received : August 17, 2012  
 Date of Test : August 17-31, 2012

### 1.2. Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen  
 Listed by FCC  
 The Registration Number is 752051  
 Listed by Industry Canada  
 The Registration Number is 5077A-2  
 Accredited by China National Accreditation Committee  
 for Laboratories  
 The Certificate Registration Number is L3193  
 Name of Firm : ACCURATE TECHNOLOGY CO. LTD  
 Site Location : F1, Bldg. A, Changyuan New Material Port, Keyuan Rd.  
 Science & Industry Park, Nanshan, Shenzhen, Guangdong  
 P.R. China

### 1.3.Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

Radiated emission expanded uncertainty (9kHz-30MHz) = 3.08dB, k=2

Radiated emission expanded uncertainty (30MHz-1000MHz) = 4.42dB, k=2

Radiated emission expanded uncertainty (Above 1GHz) = 4.06dB, k=2

## 2. MEASURING DEVICE AND TEST EQUIPMENT

**Table 1: List of Test and Measurement Equipment**

Kind of equipment	Manufacturer	Type	S/N	Calibrated <a href="#">dates</a>	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 8, 2012	Jan. 7, 2013
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 8, 2012	Jan. 7, 2013
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 8, 2012	Jan. 7, 2013
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 8, 2012	Jan. 7, 2013
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 8, 2012	Jan. 7, 2013
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 8, 2012	Jan. 7, 2013
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 8, 2012	Jan. 7, 2013
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 8, 2012	Jan. 7, 2013
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 8, 2012	Jan. 7, 2013
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 8, 2012	Jan. 7, 2013

### 3. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
Section 15.207	Conducted Emission	N/A
Section 15.249(a)	Fundamental and Harmonics Radiated Emission	Compliant
Section 15.249(d)	Spurious Radiated Emission	Compliant
Section 15.249(d)	Band Edge	Compliant
Section 15.203	Antenna Requirement	Compliant

Remark: “N/A” means “Not applicable”.

## 4. FUNDAMENTAL AND HARMONICS RADIATED EMISSION FOR SECTION 15.249(A)

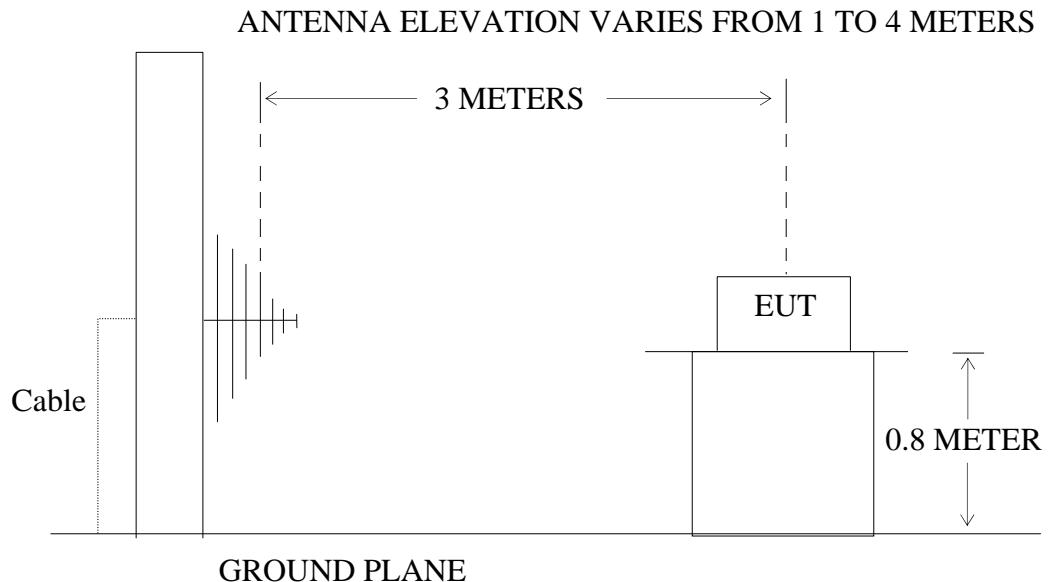
### 4.1. Block Diagram of Test Setup

#### 4.1.1. Block diagram of connection between the EUT and simulators



(EUT: 2.4G Wireless Mouse)

#### 4.1.2. Semi-Anechoic Chamber Test Setup Diagram



(EUT: 2.4G Wireless Mouse)

## 4.2.The Emission Limit

4.2.1.For intentional radiators, According to section 15.249(a), Operation within the frequency band of 2.4 to 2.4835GHz, The fundamental field strength shall not exceed 94 dB $\mu$ V/m and the harmonics shall not exceed 54 dB $\mu$ V/m.

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of harmonics (microvolts/meter)
902-928MHz	50	500
2400-2483.5MHz	50	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

4.2.2.According to section 15.249(e), as shown in section 15.35(b), the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

## 4.3.Configuration of EUT on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

### 4.3.1. 2.4G Wireless Mouse (EUT)

Model Number : Q7G  
 Serial Number : N/A  
 Manufacturer : Comat Electronic (Shenzhen) Co., Ltd.

## 4.4.Operating Condition of EUT

4.4.1.Setup the EUT and simulator as shown as Section 4.1.

4.4.2.Turn on the power of all equipment.

4.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2402.000 - 2480.000 MHz MHz. We are select 2402.000MHz, 2440.000MHz, 2480.000MHz TX frequency to transmit.

#### 4.5. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bi-log antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2009 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The bandwidth of test receiver is set at 120kHz in 30-1000MHz. and set at 1MHz in above 1000MHz.

The frequency range from 30MHz to 25000MHz is checked.

**4.6.The Field Strength of Radiation Emission Measurement Results  
PASS.**

Date of Test:	August 18, 2012	Temperature:	25°C
EUT:	2.4G Wireless Mouse	Humidity:	50%
Model No.:	Q7G	Power Supply:	DC 3V
Test Mode:	TX 2402.000MHz	Test Engineer:	Pei

**Fundamental Radiated Emissions**

Frequency (MHz)	Reading(dB $\mu$ V/m)		Factor(dB) Corr.	Result(dB $\mu$ V/m)		Limit(dB $\mu$ V/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2402.000	95.14	100.24	-7.45	87.69	92.79	94.00	114.00	-6.31	-21.21	Vertical
2402.000	100.92	109.97	-7.45	93.50	102.52	94.00	114.00	-0.50	-8.52	Horizontal

**Harmonics Radiated Emissions**

Frequency (MHz)	Reading(dB $\mu$ V/m)		Factor(dB) Corr.	Result(dB $\mu$ V/m)		Limit(dB $\mu$ V/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
4804.000	51.86	57.13	-0.30	51.56	56.83	54.00	74.00	-2.44	-17.17	Vertical
4804.000	51.08	56.68	-0.30	50.78	56.38	54.00	74.00	-3.22	-17.62	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain

3. The spectral diagrams in appendix I display the measurement of peak values.

Date of Test:	August 18, 2012	Temperature:	25°C
EUT:	2.4G Wireless Mouse	Humidity:	50%
Model No.:	Q7G	Power Supply:	DC 3V
Test Mode:	TX 2440.000MHz	Test Engineer:	Pei

### Fundamental Radiated Emissions

Frequency (MHz)	Reading(dB $\mu$ V/m)		Factor(dB) Corr.	Result(dB $\mu$ V/m)		Limit(dB $\mu$ V/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2440.000	97.25	102.69	-7.36	89.89	95.33	94.00	114.00	-4.11	-18.67	Vertical
2440.000	100.36	112.88	-7.36	93.00	105.52	94.00	114.00	-1.00	-8.48	Horizontal

### Harmonics Radiated Emissions

Frequency (MHz)	Reading(dB $\mu$ V/m)		Factor(dB) Corr.	Result(dB $\mu$ V/m)		Limit(dB $\mu$ V/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
4880.000	51.02	56.13	0.13	51.15	56.26	54.00	74.00	-2.85	-17.74	Vertical
4880.000	49.28	54.00	0.13	49.41	54.13	54.00	74.00	-4.59	-19.87	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain

3. The spectral diagrams in appendix I display the measurement of peak values.

Date of Test:	August 18, 2012	Temperature:	25°C
EUT:	2.4G Wireless Mouse	Humidity:	50%
Model No.:	Q7G	Power Supply:	DC 3V
Test Mode:	TX 2480.000MHz	Test Engineer:	Pei

### Fundamental Radiated Emissions

Frequency (MHz)	Reading(dB $\mu$ V/m)		Factor(dB) Corr.	Result(dB $\mu$ V/m)		Limit(dB $\mu$ V/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2480.000	96.25	101.20	-7.37	88.88	93.83	94.00	114.00	-5.12	-20.17	Vertical
2480.000	99.25	112.31	-7.37	91.88	104.94	94.00	114.00	-2.12	-9.06	Horizontal

### Harmonics Radiated Emissions

Frequency (MHz)	Reading(dB $\mu$ V/m)		Factor(dB) Corr.	Result(dB $\mu$ V/m)		Limit(dB $\mu$ V/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
4960.000	51.47	56.79	0.52	51.99	57.31	54.00	74.00	-2.01	-16.69	Vertical
4960.000	50.00	55.66	0.52	50.52	56.18	54.00	74.00	-3.48	-17.82	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain

3. The spectral diagrams in appendix I display the measurement of peak values.

## 5. SPURIOUS RADIATED EMISSION FOR SECTION 15.249(D)

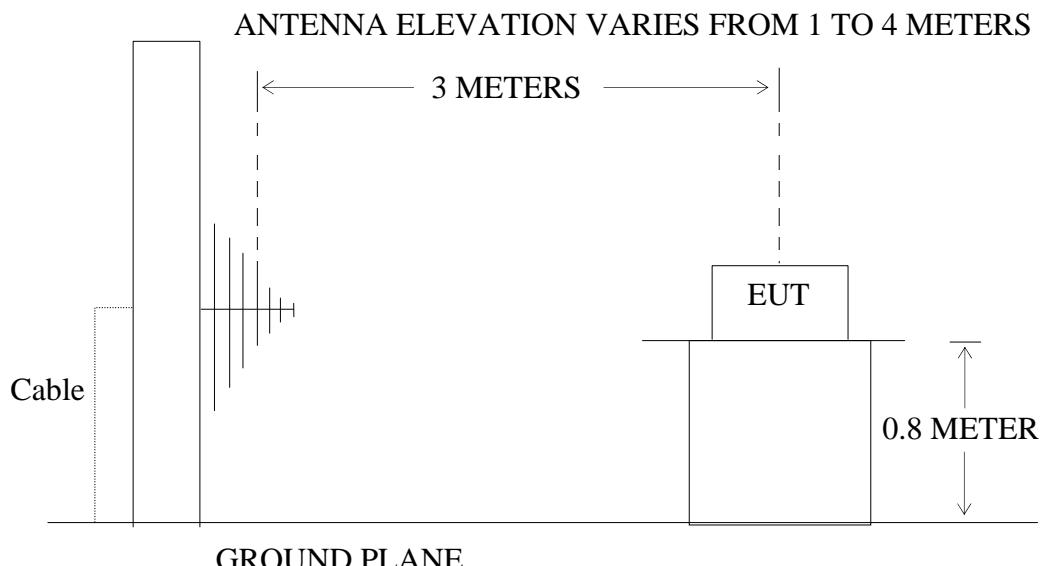
### 5.1. Block Diagram of Test Setup

#### 5.1.1. Block diagram of connection between the EUT and simulators



(EUT: 2.4G Wireless Mouse)

#### 5.1.2. Semi-Anechoic Chamber Test Setup Diagram



(EUT: 2.4G Wireless Mouse)

### 5.2. The Emission Limit For Section 15.249(d)

#### 5.2.1. Emission radiated outside of the specified frequency bands, except for harmonics, shall be comply with the general radiated emission limits in Section 15.209.

##### Radiation Emission Measurement Limits According to Section 15.209

Frequency (MHz)	Limit		
	Field Strength (microvolts/meter)	Measurement Distance (meters)	The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is performed with Average detector.
0.009 – 0.490	2400/F(kHz)	300	

0.490 – 1.705	24000/F(kHz)	30	Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.
1.705 – 30.0	30	30	
30 - 88	100	3	
88 - 216	150	3	
216 - 960	200	3	
Above 960	500	3	

### 5.3.EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

#### 5.3.1. 2.4G Wireless Mouse (EUT)

Model Number : Q7G  
 Serial Number : N/A  
 Manufacturer : Comat Electronic (Shenzhen) Co., Ltd.

### 5.4.Operating Condition of EUT

5.4.1. Setup the EUT and simulator as shown as Section 5.1.

5.4.2. Turn on the power of all equipment.

5.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2402.000 - 2480.000 MHz. We are select 2402.000MHz, 2440.000MHz, 2480.000MHz TX frequency to transmit.

## 5.5. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2009 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The bandwidth of test receiver is set at 9kHz in below 30MHz. and set at 120kHz in 30-1000MHz, and 1MHz in above 1000MHz.

The frequency range from 9kHz to 25GHz is checked.

The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

## 5.6.The Emission Measurement Result

**PASS.**

Date of Test:	August 18, 2012	Temperature:	25°C
EUT:	2.4G Wireless Mouse	Humidity:	50%
Model No.:	Q7G	Power Supply:	DC 3V
Test Mode:	TX 2402.000MHz	Test Engineer:	Pei

Below 30MHz

Frequency (MHz)	Reading (dB $\mu$ V/m)	Factor(dB) Corr.	Result	Limit	Margin	Polarization
			QP	QP	QP	
-	-	-	-	-	-	X
-	-	-	-	-	-	Y
-	-	-	-	-	-	Z

30MHz-25GHz

Frequency (MHz)	Reading (dB $\mu$ V/m)	Factor(dB) Corr.	Result	Limit	Margin	Polarization
			QP	QP	QP	
-	-	-	-	-	-	Vertical
-	-	-	-	-	-	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain

3. The spectral diagrams in appendix I display the measurement of peak values.

Date of Test:	August 18, 2012	Temperature:	25°C
EUT:	2.4G Wireless Mouse	Humidity:	50%
Model No.:	Q7G	Power Supply:	DC 3V
Test Mode:	TX 2440.000MHz	Test Engineer:	Pei

Below 30MHz

Frequency (MHz)	Reading (dB $\mu$ V/m)	Factor(dB) Corr.	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	X
-	-	-	-	-	-	Y
-	-	-	-	-	-	Z

30MHz-25GH

Frequency (MHz)	Reading (dB $\mu$ V/m)	Factor(dB) Corr.	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	Vertical
-	-	-	-	-	-	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain

3. The spectral diagrams in appendix I display the measurement of peak values.

Date of Test:	August 18, 2012	Temperature:	25°C
EUT:	2.4G Wireless Mouse	Humidity:	50%
Model No.:	Q7G	Power Supply:	DC 3V
Test Mode:	TX 2480.000MHz	Test Engineer:	Pei

Below 30MHz

Frequency (MHz)	Reading (dB $\mu$ V/m)	Factor(dB) Corr.	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	X
-	-	-	-	-	-	Y
-	-	-	-	-	-	Z

30MHz-25GH

Frequency (MHz)	Reading (dB $\mu$ V/m)	Factor(dB) Corr.	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	Vertical
-	-	-	-	-	-	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain

3. The spectral diagrams in appendix I display the measurement of peak values.

## 6. BAND EDGES

### 6.1. The Requirement

6.1.1. Band Edge from 2400MHz to 2483.5MHz. Emission 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.

### 6.2. EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

#### 6.2.1. 2.4G Wireless Mouse (EUT)

Model Number : Q7G  
 Serial Number : N/A  
 Manufacturer : Comat Electronic (Shenzhen) Co., Ltd.

### 6.3. Operating Condition of EUT

6.3.1. Setup the EUT and simulator as shown as Section 4.1.

6.3.2. Turn on the power of all equipment.

6.3.3. Let the EUT work in TX modes measure it. The transmit frequency are 2402.000-2480.000MHz MHz. We are select 2402.000MHz, 2480.000MHz TX frequency to transmit.

### 6.4. Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:  
 RBW=1MHz, VBW=1MHz

## 6.5.The Measurement Result

**Pass.**

Date of Test:	August 18, 2012	Temperature:	25°C
EUT:	2.4G Wireless Mouse	Humidity:	50%
Model No.:	Q7G	Power Supply:	DC 3V
Test Mode:	TX 2402.000MHz	Test Engineer:	Pei

Frequency (MHz)	Reading(dB $\mu$ V/m)		Factor(dB) Corr.	Result(dB $\mu$ V/m)		Limit(dB $\mu$ V/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2310.000	35.25	43.08	-7.81	30.44	35.27	54.00	74.00	-23.56	-38.73	Vertical
2330.017	40.58	46.32	-7.80	32.78	38.52	54.00	74.00	-21.22	-35.48	Vertical
2390.000	43.25	49.26	-7.53	35.72	41.73	54.00	74.00	-18.28	-32.27	Vertical
2310.000	37.89	45.71	-7.81	30.08	37.90	54.00	74.00	-23.92	-36.10	Horizontal
2330.017	39.22	46.32	-7.80	31.42	38.52	54.00	74.00	-22.58	-35.48	Horizontal
2390.000	45.12	51.70	-7.53	37.59	44.17	54.00	74.00	-16.41	-29.83	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain

3. The spectral diagrams in appendix I display the measurement of peak values.

Date of Test:	August 18, 2012	Temperature:	25°C
EUT:	2.4G Wireless Mouse	Humidity:	50%
Model No.:	Q7G	Power Supply:	DC 3.0V
Test Mode:	TX 2480.000MHz	Test Engineer:	Pei

Frequency (MHz)	Reading(dB $\mu$ V/m)		Factor(dB) Corr.	Result(dB $\mu$ V/m)		Limit(dB $\mu$ V/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2483.500	37.82	45.14	-7.37	30.45	37.77	54.00	74.00	-23.55	-36.23	Vertical
2490.834	40.18	47.58	-7.38	32.80	40.20	54.00	74.00	-21.20	-33.80	Vertical
2500.000	38.15	44.79	-7.40	30.75	37.39	54.00	74.00	-23.25	-36.61	Vertical
2483.500	41.00	46.99	-7.37	33.63	39.62	54.00	74.00	-20.37	-34.38	Horizontal
2490.993	44.28	50.40	-7.38	36.90	43.02	54.00	74.00	-17.10	-30.98	Horizontal
2500.000	37.05	43.67	-7.40	29.65	36.27	54.00	74.00	-24.35	-37.73	Horizontal

## Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain

3. The spectral diagrams in appendix I display the measurement of peak values.

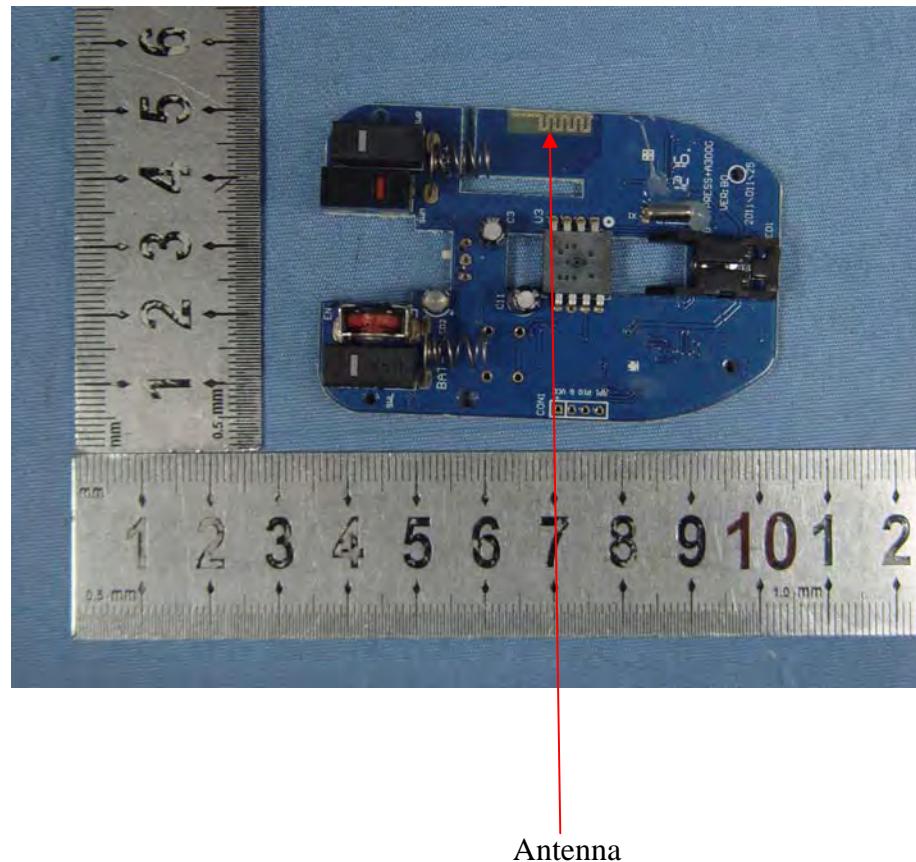
## 7. ANTENNA REQUIREMENT

### 7.1. The Requirement

7.1.1. According to Section 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.

### 7.2. Antenna Construction

The antenna is PCB Layout antenna, no consideration of replacement.



## APPENDIX I (Test Curves)


**ACCURATE TECHNOLOGY CO., LTD.**

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR #2032

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 3V

Test item: Radiation Test

Date: 12/08/18/

Temp. ( C)/Hum.(%) 24 C / 48 %

Time: 8/42/01

EUT: 2.4G Wireless mouse

Engineer Signature:

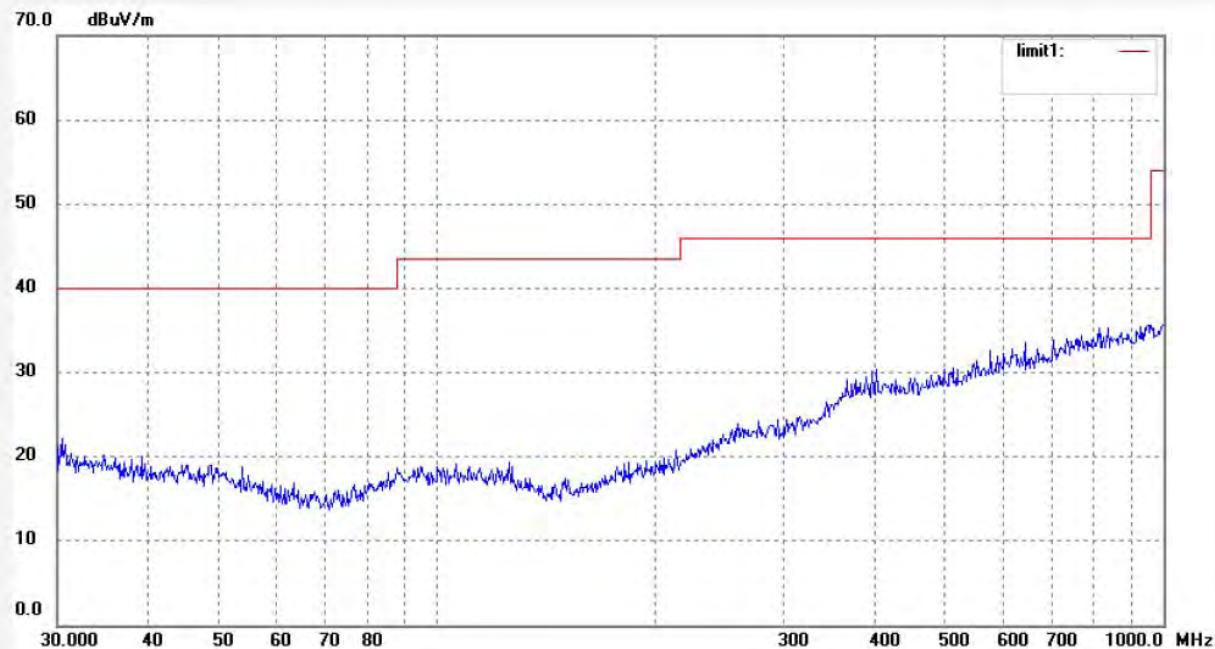
Mode: TX 2402MHz

Distance: 3m

Model: Q7G

Manufacturer: COMAT

Note: Report No.:ATE20121911



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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**ACCURATE TECHNOLOGY CO., LTD.**

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR #2031

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 3V

Test item: Radiation Test

Date: 12/08/18/

Temp.( C)/Hum.(%) 24 C / 48 %

Time: 8/41/11

EUT: 2.4G Wireless mouse

Engineer Signature:

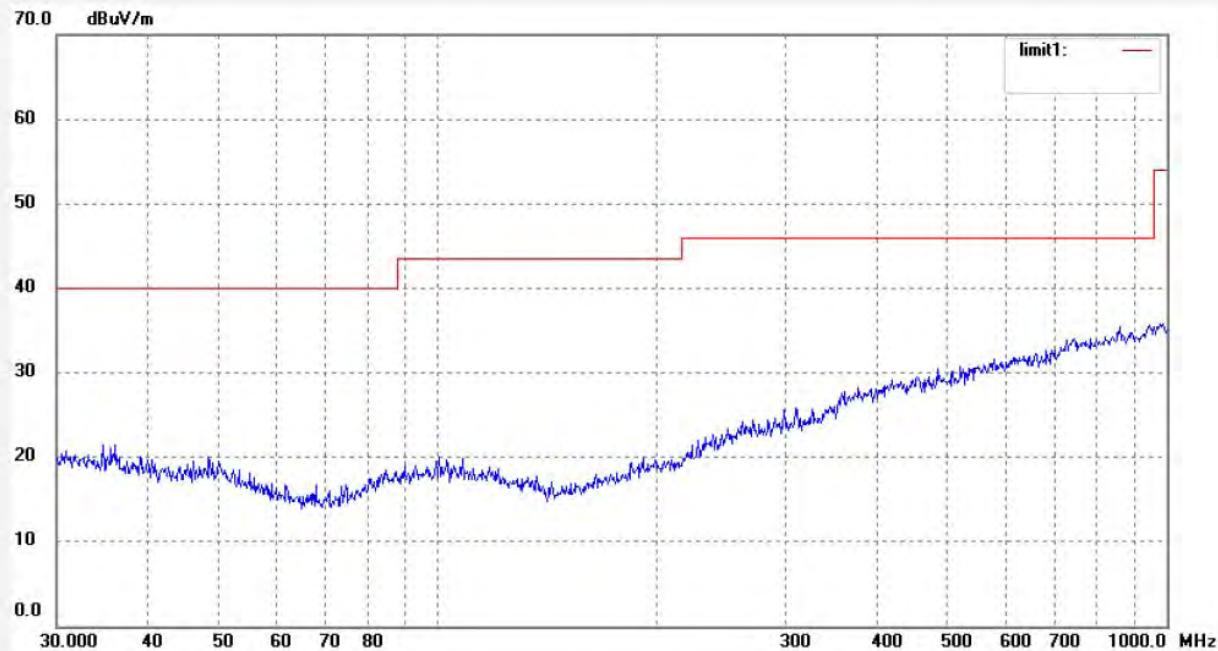
Mode: TX 2402MHz

Distance: 3m

Model: Q7G

Manufacturer: COMAT

Note: Report No.:ATE20121911



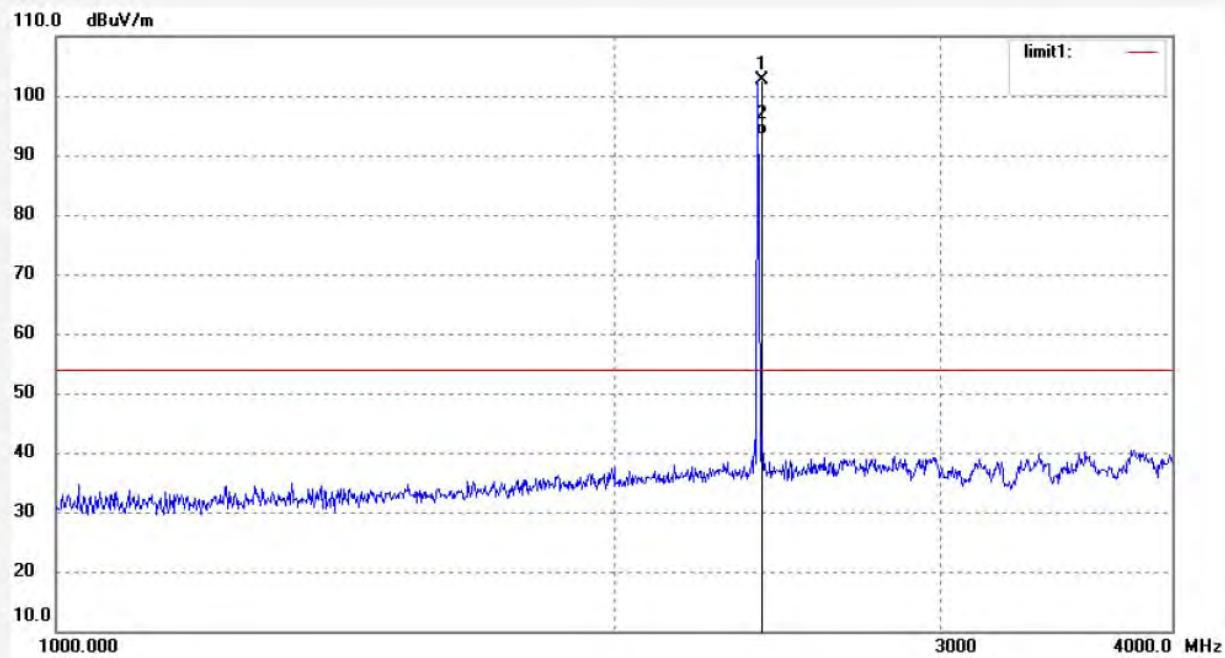
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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**ACCURATE TECHNOLOGY CO., LTD.**

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.:	STAR #2065	Polarization:	Horizontal
Standard:	FCC Class B 3M Radiated	Power Source:	DC 3V
Test item:	Radiation Test	Date:	12/08/18/
Temp. (C)/Hum.(%)	24 C / 48 %	Time:	9/37/09
EUT:	2.4G Wireless mouse	Engineer Signature:	
Mode:	TX 2402MHz	Distance:	3m
Model:	Q7G		
Manufacturer:	COMAT		
Note:	Report No.:ATE20121911		



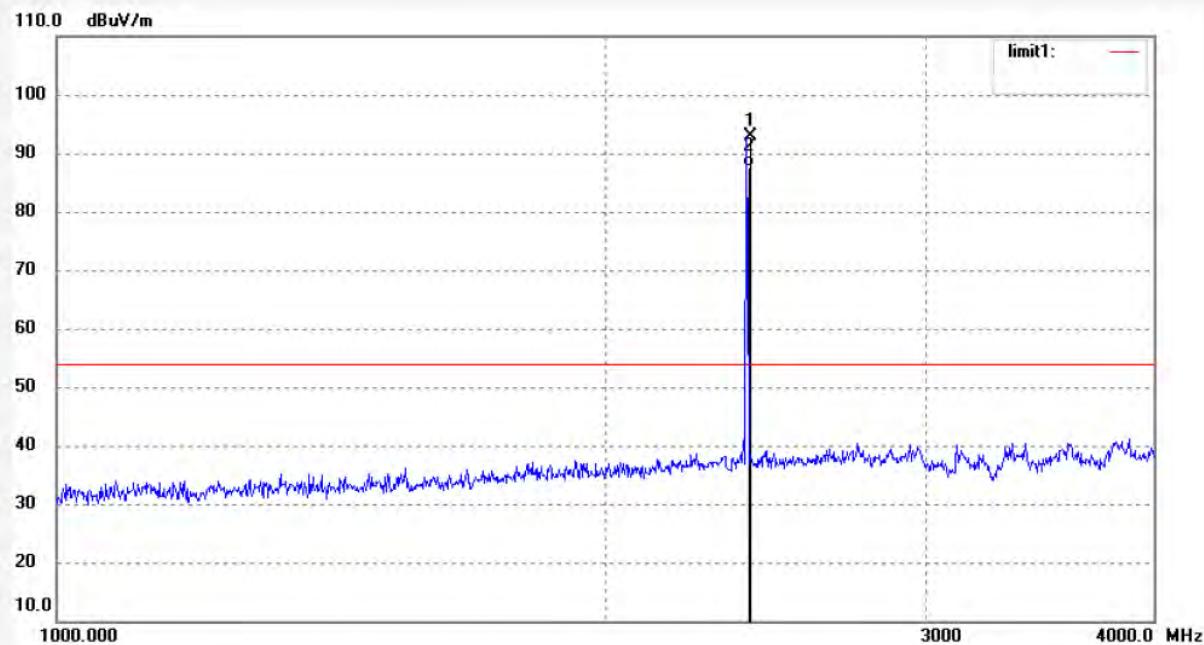
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	109.97	-7.45	102.52	114.00	-8.52	peak			
2	2402.004	100.95	-7.45	93.50	94.00	-0.50	AVG			


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 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: STAR #2066	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 12/08/18/
Temp. ( C)/Hum.(%) 24 C / 48 %	Time: 9/40/39
EUT: 2.4G Wireless mouse	Engineer Signature:
Mode: TX 2402MHz	Distance: 3m
Model: Q7G	
Manufacturer: COMAT	
Note: Report No.:ATE20121911	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	100.24	-7.45	92.79	114.00	-21.21	peak			
2	2402.000	95.14	-7.45	87.69	94.00	-6.31	AVG			


**ACCURATE TECHNOLOGY CO., LTD.**

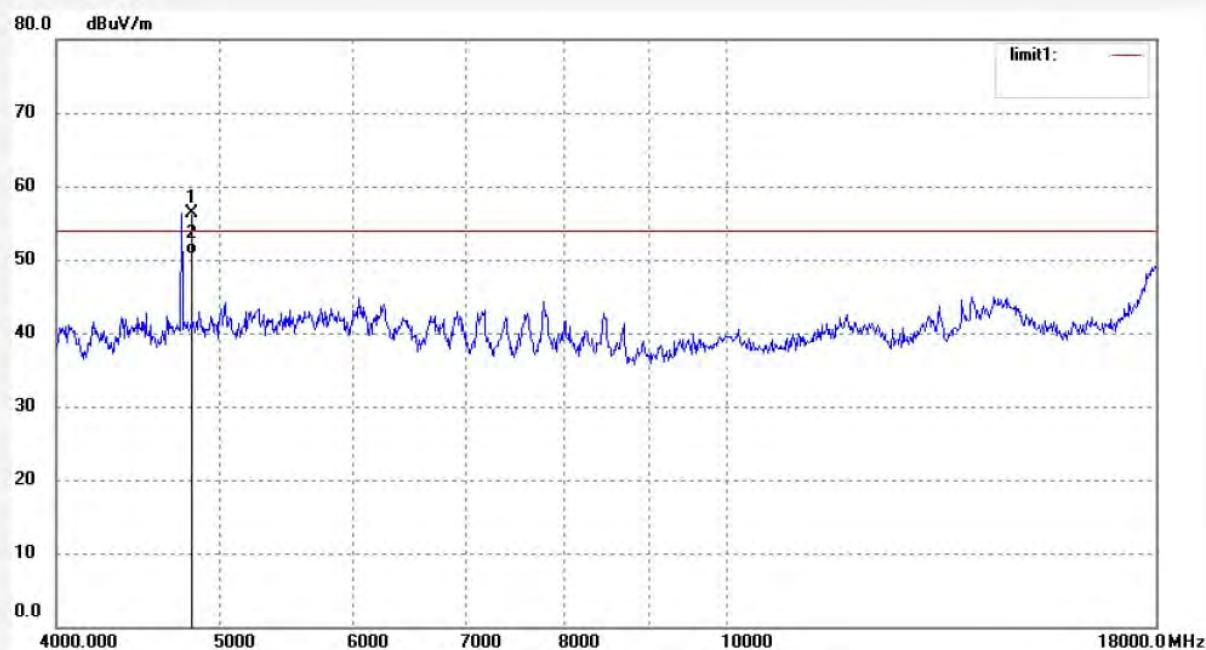
 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: STAR #2072  
 Standard: FCC Class B 3M Radiated  
 Test item: Radiation Test  
 Temp. ( C)/Hum.(%) 24 C / 48 %  
 EUT: 2.4G Wireless mouse  
 Mode: TX 2402MHz  
 Model: Q7G  
 Manufacturer: COMAT

Polarization: Horizontal  
 Power Source: DC 3V  
 Date: 12/08/18/  
 Time: 9:51:54  
 Engineer Signature:  
 Distance: 3m

Note: Report No.:ATE20121911



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4804.000	56.68	-0.30	56.38	74.00	-17.62	peak			
2	4804.000	51.08	-0.30	50.78	54.00	-3.22	AVG			


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 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR #2071

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 3V

Test item: Radiation Test

Date: 12/08/18/

Temp.( C)/Hum.(%) 24 C / 48 %

Time: 9/50/45

EUT: 2.4G Wireless mouse

Engineer Signature:

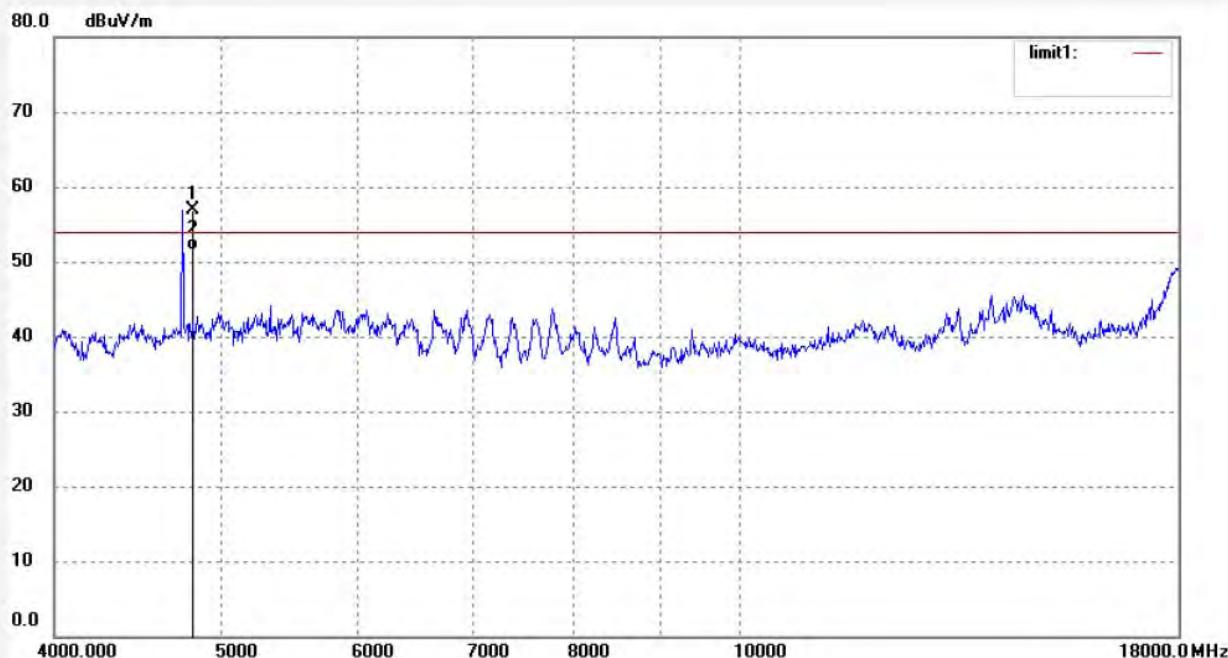
Mode: TX 2402MHz

Distance: 3m

Model: Q7G

Manufacturer: COMAT

Note: Report No.:ATE20121911



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4804.000	57.13	-0.30	56.83	74.00	-17.17	peak			
2	4804.000	51.86	-0.30	51.56	54.00	-2.44	AVG			


**ACCURATE TECHNOLOGY CO., LTD.**

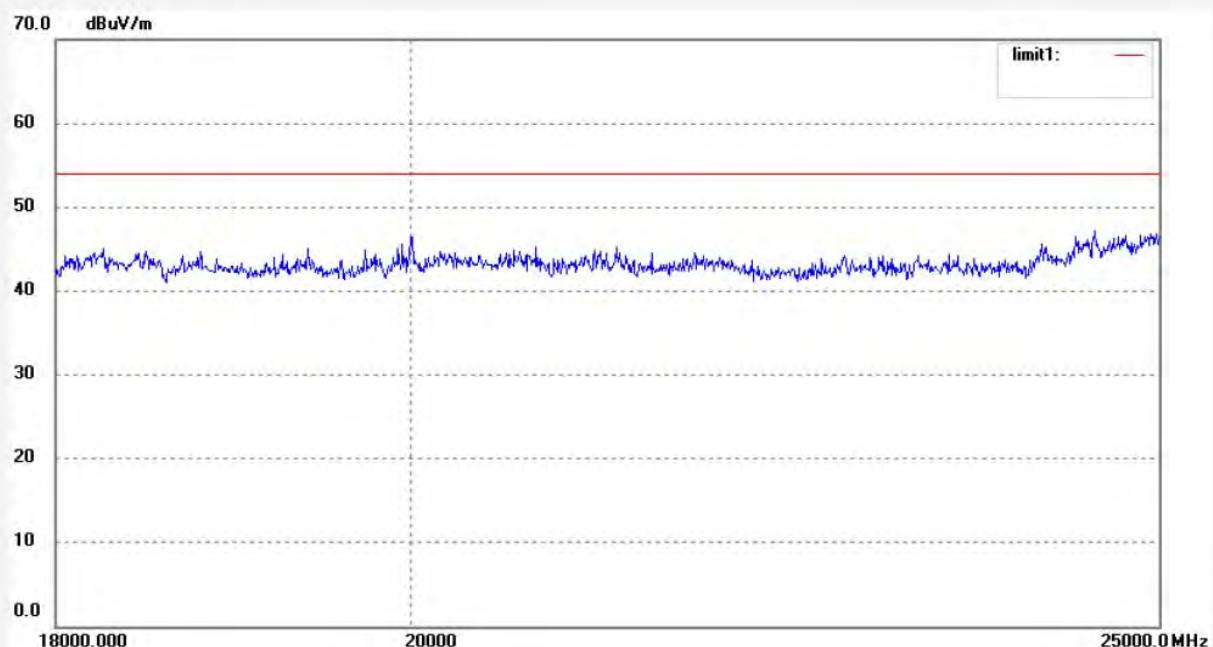
 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: Star\_tmp #201  
 Standard: FCC Class B 3M Radiated  
 Test item: Radiation Test  
 Temp.( C)/Hum.(%) 25 C / 51 %  
 EUT: 2.4G Wireless mouse  
 Mode: TX 2402MHz  
 Model: Q7G  
 Manufacturer: COMAT

Polarization: Horizontal  
 Power Source: DC 3V  
 Date: 2012/08/22  
 Time: 18:46:04  
 Engineer Signature: Star  
 Distance:

Note: Report No.:ATE20121911



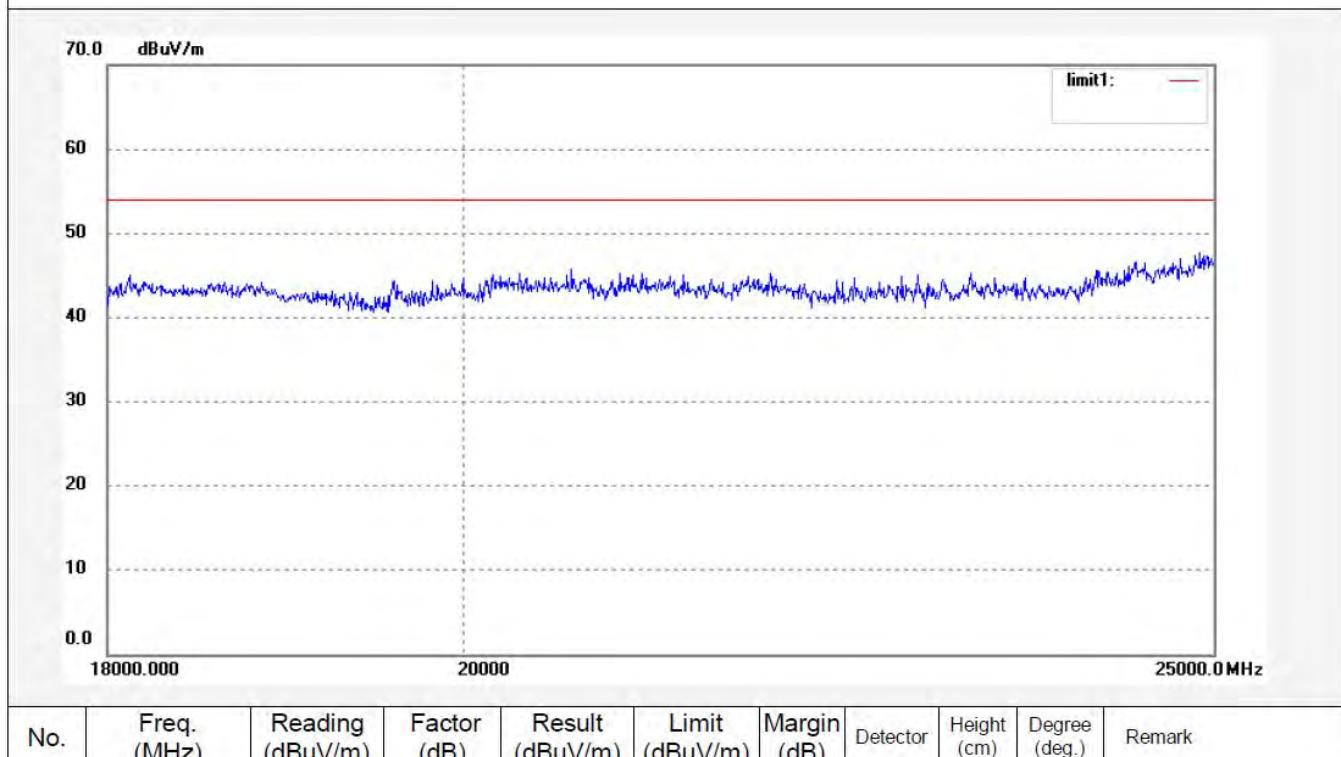
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.:	Star_tmp #200	Polarization:	Vertical
Standard:	FCC Class B 3M Radiated	Power Source:	DC 3V
Test item:	Radiation Test	Date:	2012/08/22
Temp.( C)/Hum.(%)	25 C / 51 %	Time:	18:45:42
EUT:	2.4G Wireless mouse	Engineer Signature:	Star
Mode:	TX 2402MHz	Distance:	
Model:	Q7G		
Manufacturer:	COMAT		
Note:	Report No.:ATE20121911		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark


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 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR #2033

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 3V

Test item: Radiation Test

Date: 12/08/18/

Temp. ( C)/Hum.(%) 24 C / 48 %

Time: 8/42/33

EUT: 2.4G Wireless mouse

Engineer Signature:

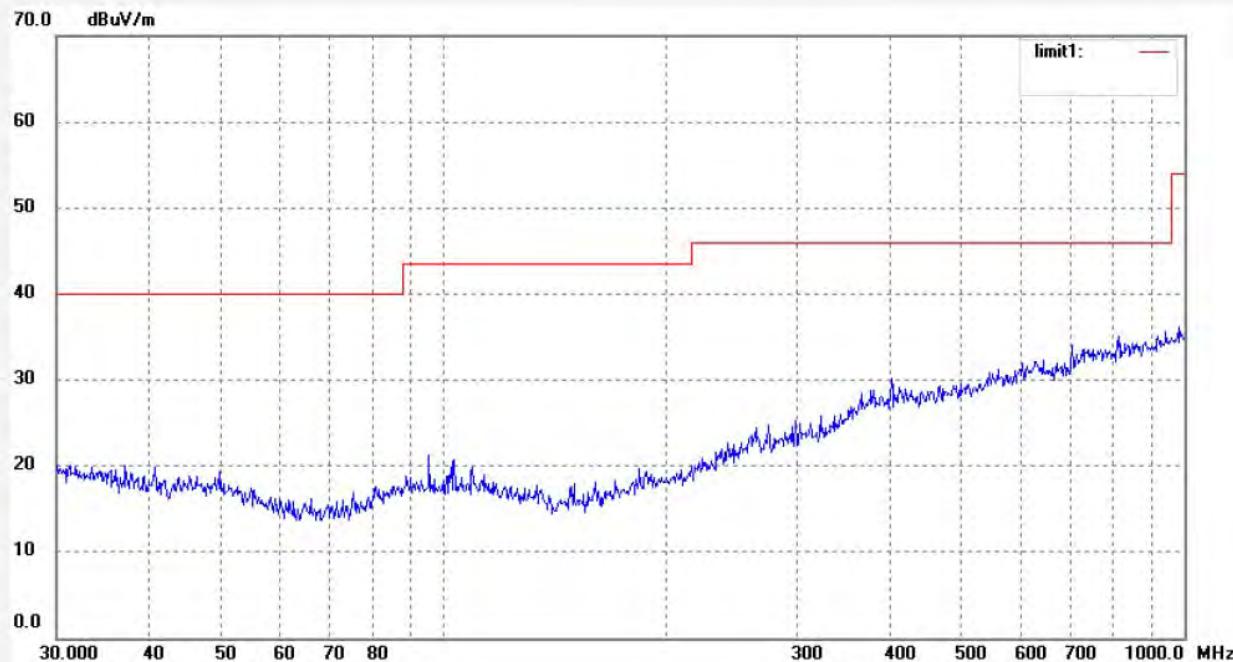
Mode: TX 2440MHz

Distance: 3m

Model: Q7G

Manufacturer: COMAT

Note: Report No.:ATE20121911



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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**ACCURATE TECHNOLOGY CO., LTD.**

 F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR #2034

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 3V

Test item: Radiation Test

Date: 12/08/18/

Temp.( C)/Hum.(%) 24 C / 48 %

Time: 8/43/21

EUT: 2.4G Wireless mouse

Engineer Signature:

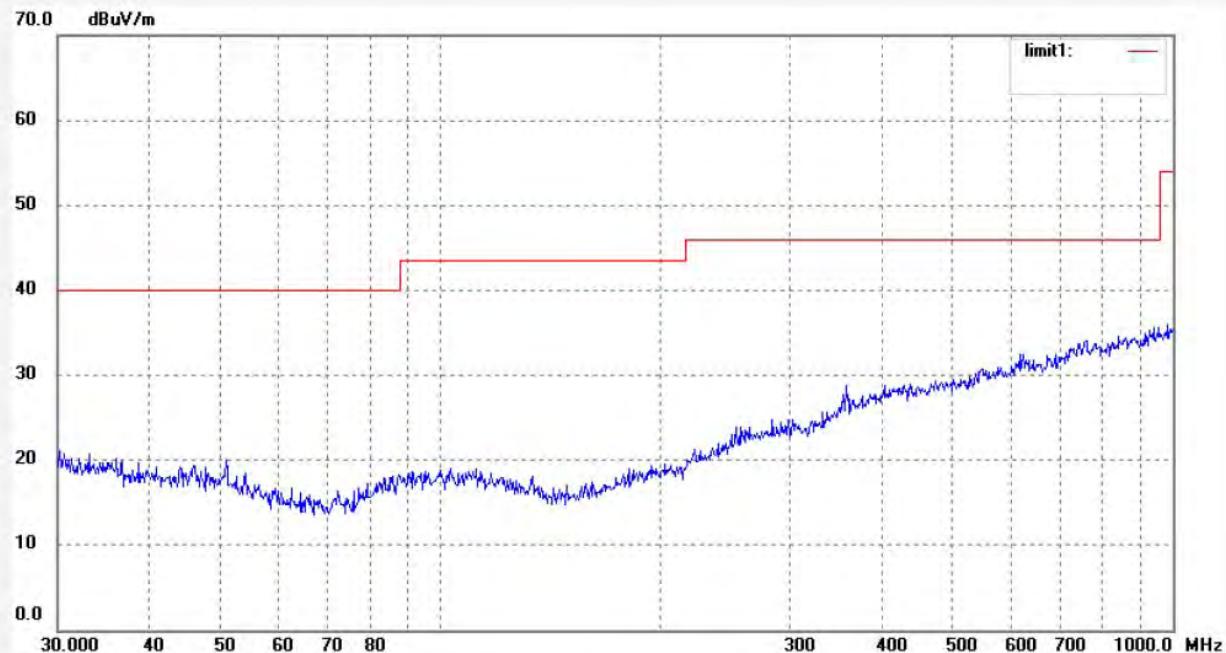
Mode: TX 2440MHz

Distance: 3m

Model: Q7G

Manufacturer: COMAT

Note: Report No.:ATE20121911



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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**ACCURATE TECHNOLOGY CO., LTD.**

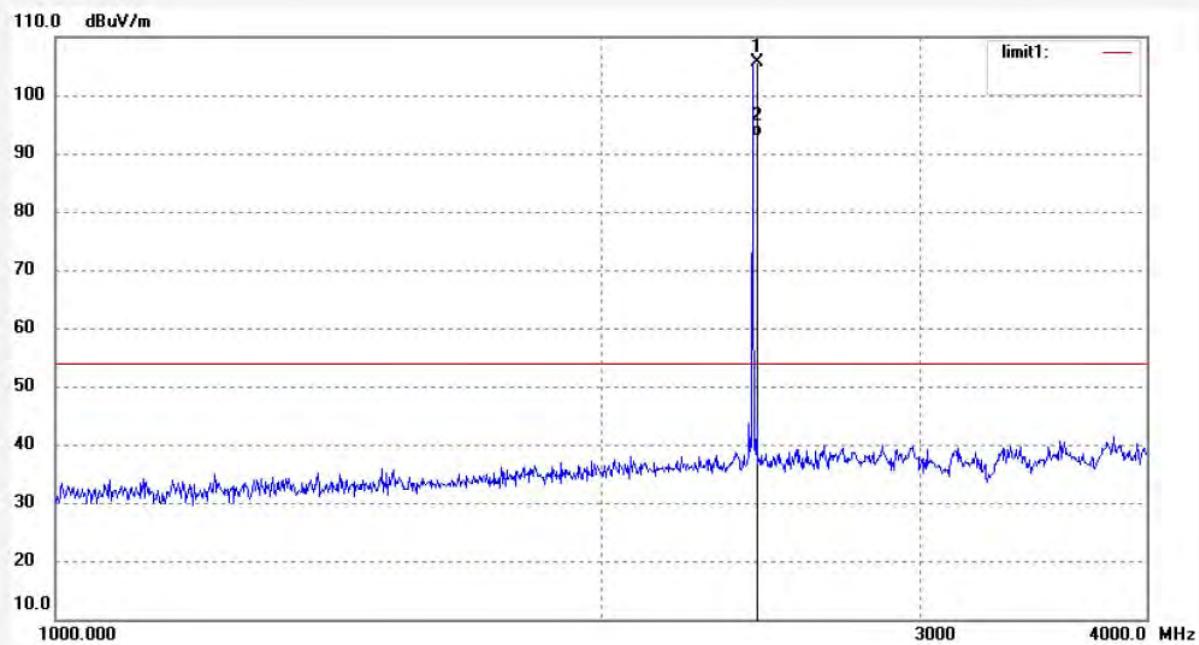
 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: STAR #2068  
 Standard: FCC Class B 3M Radiated  
 Test item: Radiation Test  
 Temp. ( C)/Hum.(%) 24 C / 48 %  
 EUT: 2.4G Wireless mouse  
 Mode: TX 2440MHz  
 Model: Q7G  
 Manufacturer: COMAT

Polarization: Horizontal  
 Power Source: DC 3V  
 Date: 12/08/18/  
 Time: 9:44:36  
 Engineer Signature:  
 Distance: 3m

Note: Report No.:ATE20121911



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.000	112.88	-7.36	105.52	114.00	-8.48	peak			
2	2440.000	100.36	-7.36	93.00	94.00	-1.00	AVG			


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 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: STAR #2067

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 3V

Test item: Radiation Test

Date: 12/08/18/

Temp.( C)/Hum.(%) 24 C / 48 %

Time: 9/43/06

EUT: 2.4G Wireless mouse

Engineer Signature:

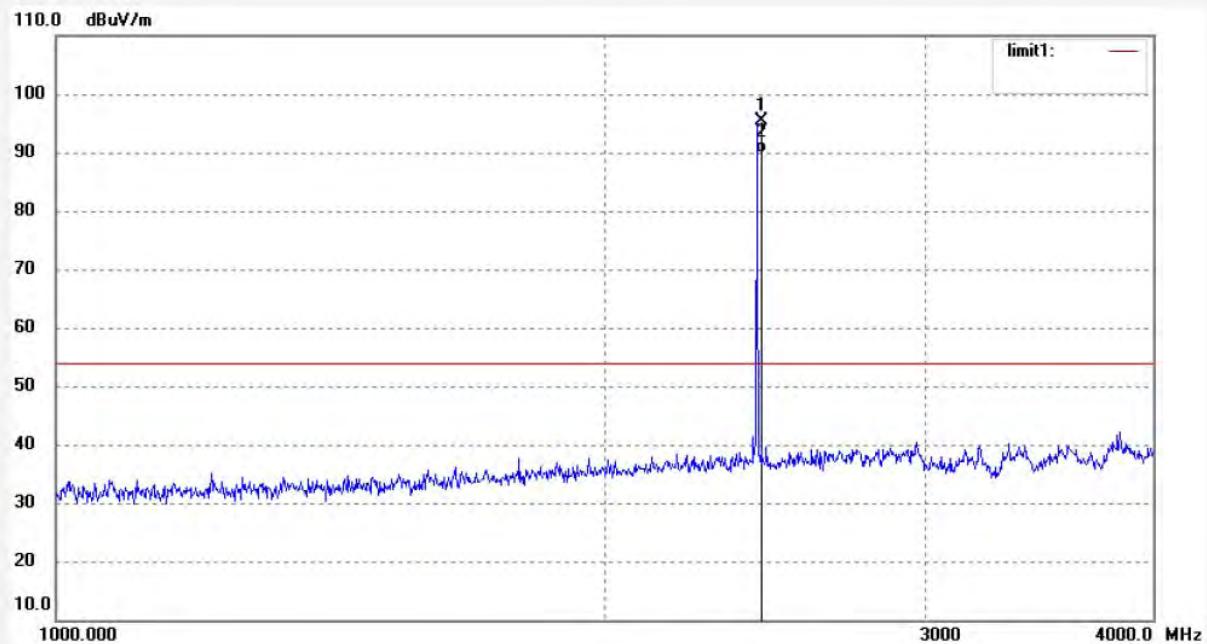
Mode: TX 2440MHz

Distance: 3m

Model: Q7G

Manufacturer: COMAT

Note: Report No.:ATE20121911



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.000	102.69	-7.36	95.33	114.00	-18.67	peak			
2	2440.000	97.25	-7.36	89.89	94.00	-4.11	AVG			


**ACCURATE TECHNOLOGY CO., LTD.**

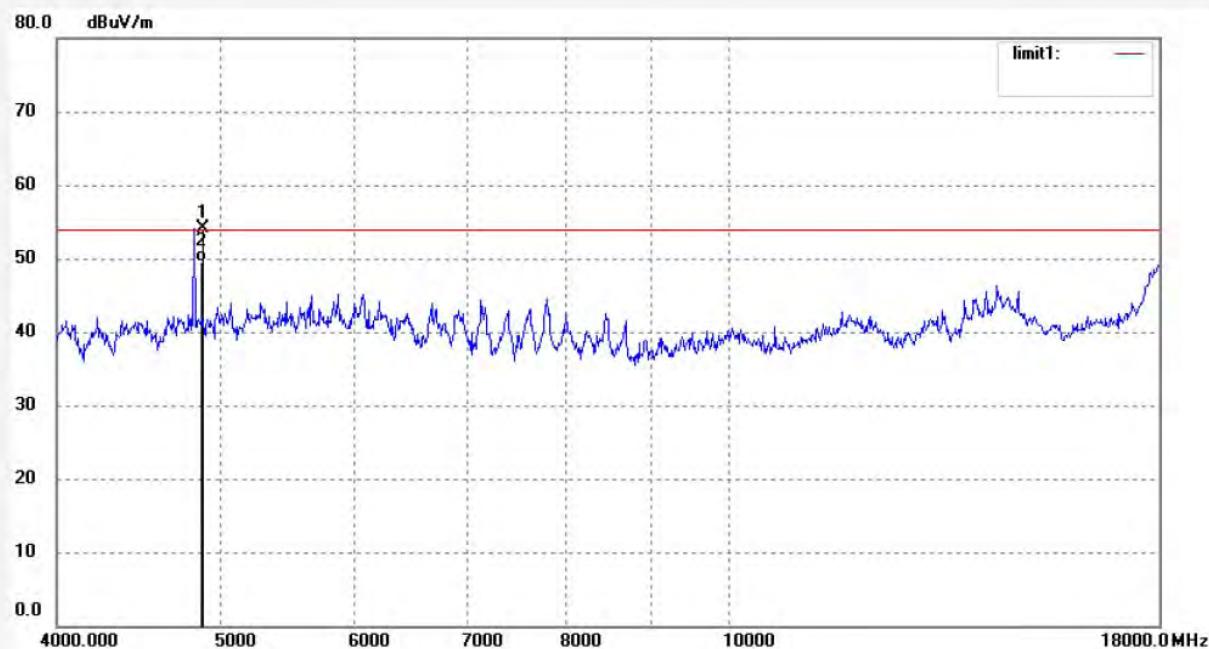
 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: STAR #2073  
 Standard: FCC Class B 3M Radiated  
 Test item: Radiation Test  
 Temp.( C)/Hum.(%) 24 C / 48 %  
 EUT: 2.4G Wireless mouse  
 Mode: TX 2440MHz  
 Model: Q7G  
 Manufacturer: COMAT

Polarization: Horizontal  
 Power Source: DC 3V  
 Date: 12/08/18/  
 Time: 9/53/02  
 Engineer Signature:  
 Distance: 3m

Note: Report No.:ATE20121911



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4880.000	54.00	0.13	54.13	74.00	-19.87	peak			
2	4880.000	49.28	0.13	49.41	54.00	-4.59	AVG			


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 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR #2074

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 3V

Test item: Radiation Test

Date: 12/08/18/

Temp. ( C)/Hum.(%) 24 C / 48 %

Time: 9/54/12

EUT: 2.4G Wireless mouse

Engineer Signature:

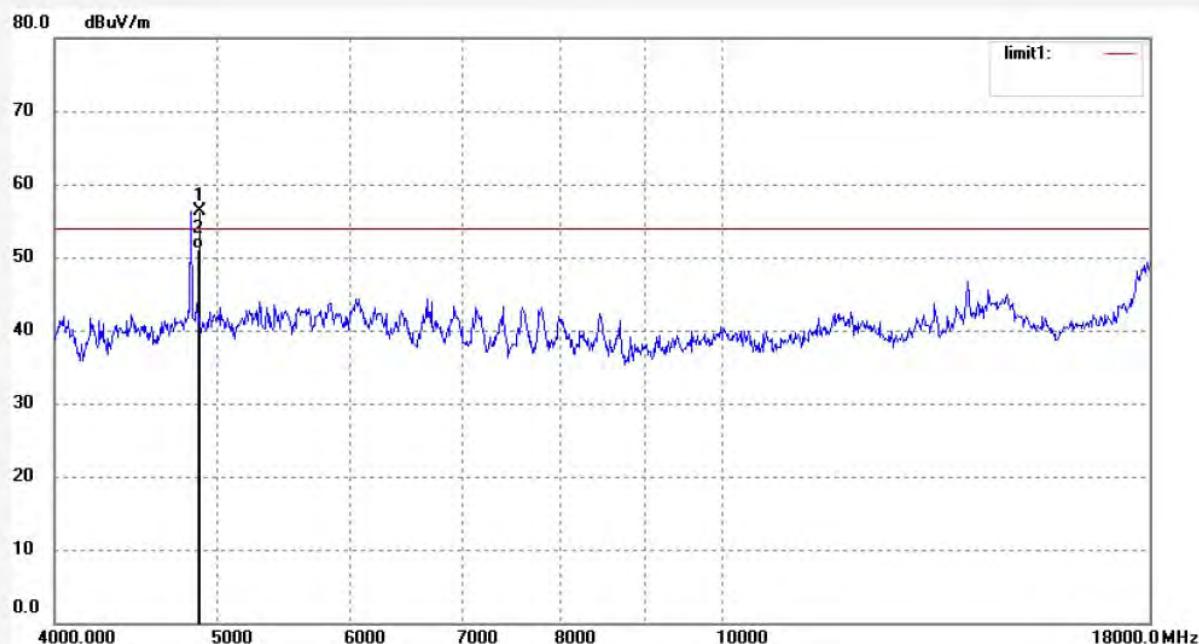
Mode: TX 2440MHz

Distance: 3m

Model: Q7G

Manufacturer: COMAT

Note: Report No.:ATE20121911



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4880.000	56.13	0.13	56.26	74.00	-17.74	peak			
2	4880.000	51.02	0.13	51.15	54.00	-2.85	AVG			


**ACCURATE TECHNOLOGY CO., LTD.**

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: Star\_tmp #202

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 3V

Test item: Radiation Test

Date: 2012/08/22

Temp.( C)/Hum.(%) 25 C / 51 %

Time: 18:46:17

EUT: 2.4G Wireless mouse

Engineer Signature: Star

Mode: TX 2440MHz

Distance:

Model: Q7G

Manufacturer: COMAT

Note: Report No.:ATE20121911

70.0 dB<sub>u</sub>V/m

60

50

40

30

20

10

0.0

18000.000

20000

25000.0 MHz

limit1: 

No.	Freq. (MHz)	Reading (dB <sub>u</sub> V/m)	Factor (dB)	Result (dB <sub>u</sub> V/m)	Limit (dB <sub>u</sub> V/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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**ACCURATE TECHNOLOGY CO., LTD.**

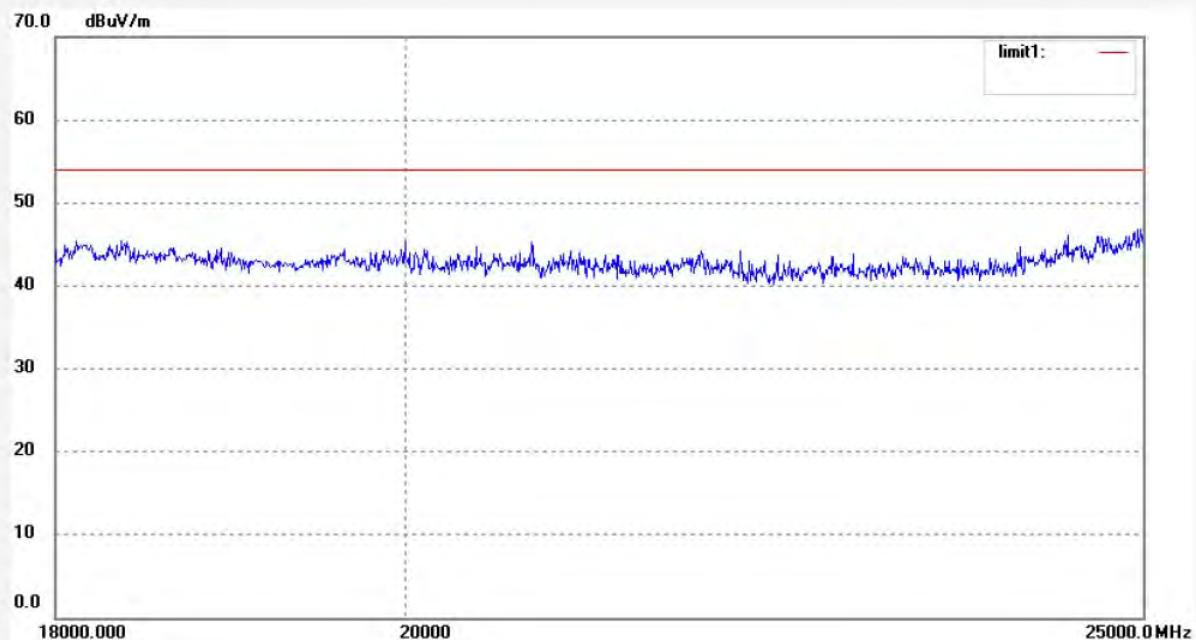
 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: Star\_tmp #203  
 Standard: FCC Class B 3M Radiated  
 Test item: Radiation Test  
 Temp.( C)/Hum.(%) 25 C / 51 %  
 EUT: 2.4G Wireless mouse  
 Mode: TX 2440MHz  
 Model: Q7G  
 Manufacturer: COMAT

Polarization: Vertical  
 Power Source: DC 3V  
 Date: 2012/08/22  
 Time: 18:46:33  
 Engineer Signature: Star  
 Distance:

Note: Report No.:ATE20121911



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
-----	----------------	---------------------	----------------	--------------------	-------------------	----------------	----------	----------------	------------------	--------


**ACCURATE TECHNOLOGY CO., LTD.**

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: STAR #2036

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 3V

Test item: Radiation Test

Date: 12/08/18/

Temp.( C)/Hum.(%) 24 C / 48 %

Time: 8/44/15

EUT: 2.4G Wireless mouse

Engineer Signature:

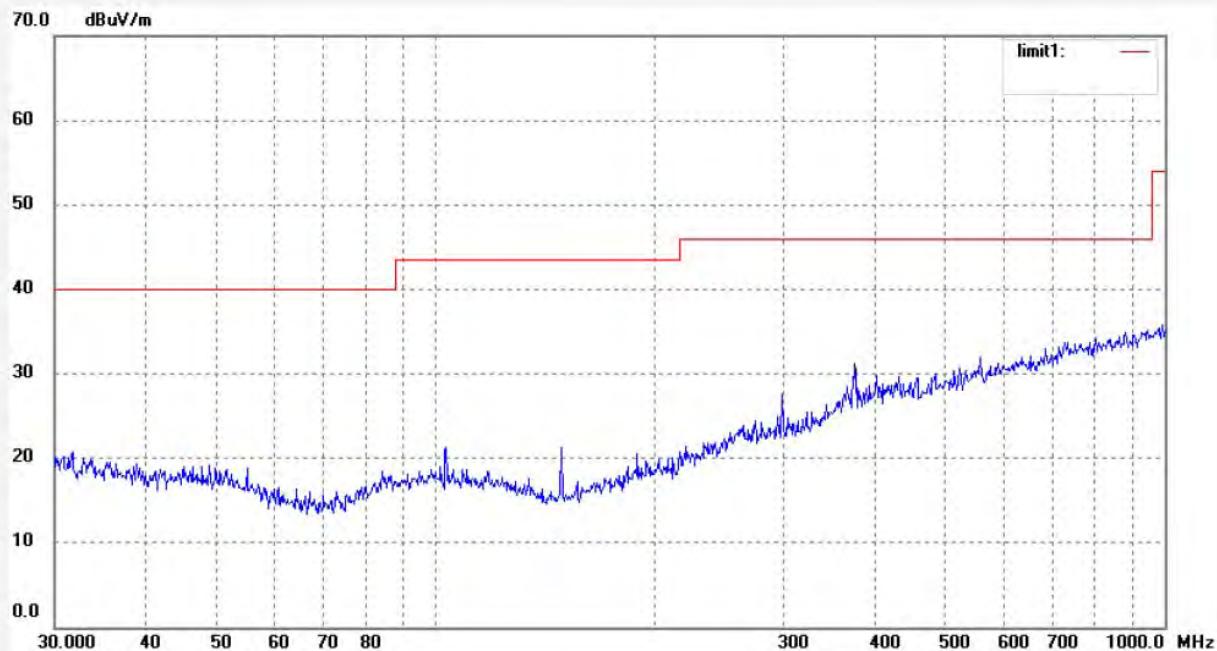
Mode: TX 2480MHz

Distance: 3m

Model: Q7G

Manufacturer: COMAT

Note: Report No.:ATE20121911



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
-----	----------------	---------------------	----------------	--------------------	-------------------	----------------	----------	----------------	------------------	--------


**ACCURATE TECHNOLOGY CO., LTD.**

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: STAR #2035

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 3V

Test item: Radiation Test

Date: 12/08/18/

Temp.( C)/Hum.(%) 24 C / 48 %

Time: 8/43/38

EUT: 2.4G Wireless mouse

Engineer Signature:

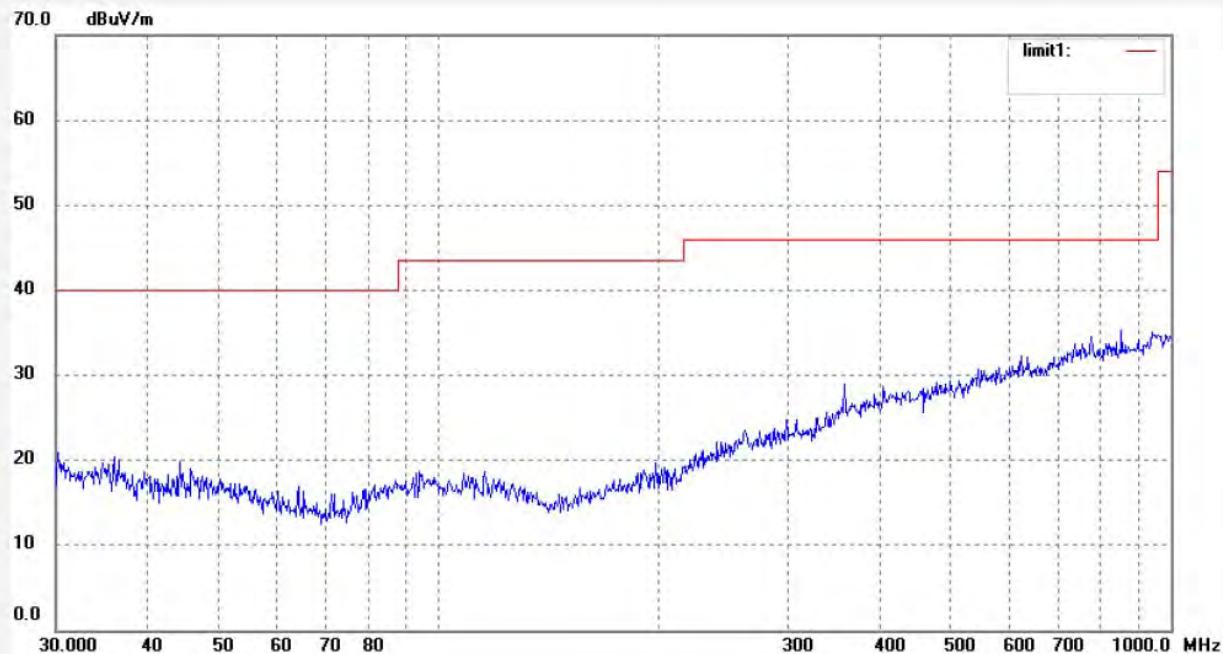
Mode: TX 2480MHz

Distance: 3m

Model: Q7G

Manufacturer: COMAT

Note: Report No.:ATE20121911



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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**ACCURATE TECHNOLOGY CO., LTD.**

 F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: STAR #2069

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 3V

Test item: Radiation Test

Date: 12/08/18/

Temp.( C)/Hum.(%) 24 C / 48 %

Time: 9/46/04

EUT: 2.4G Wireless mouse

Engineer Signature:

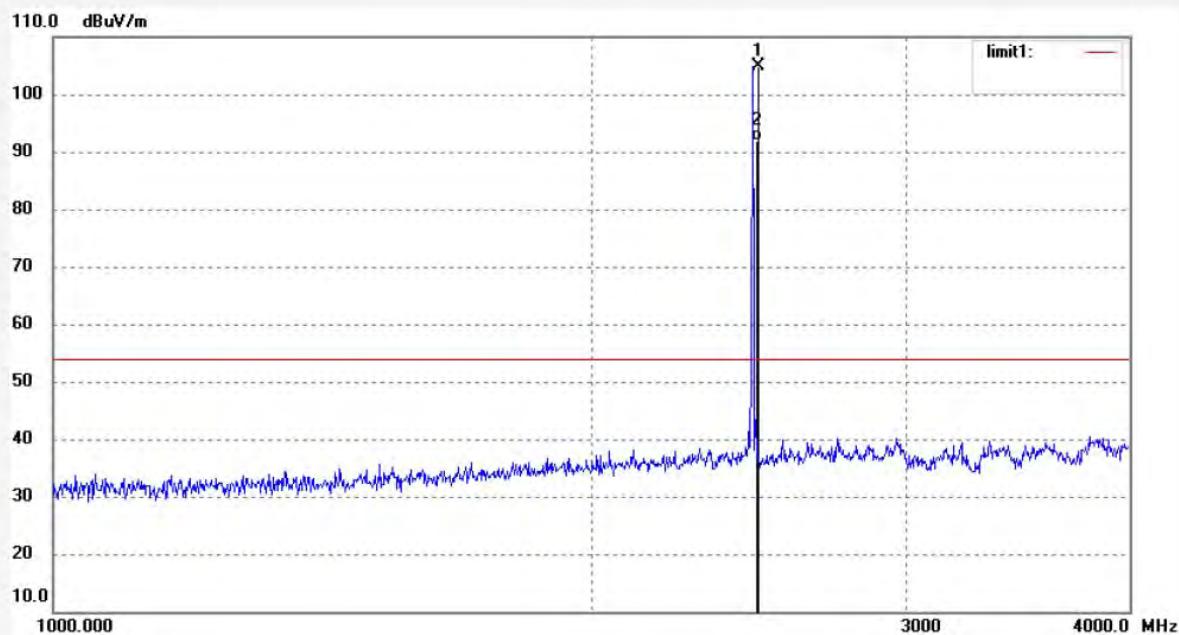
Mode: TX 2480MHz

Distance: 3m

Model: Q7G

Manufacturer: COMAT

Note: Report No.:ATE20121911



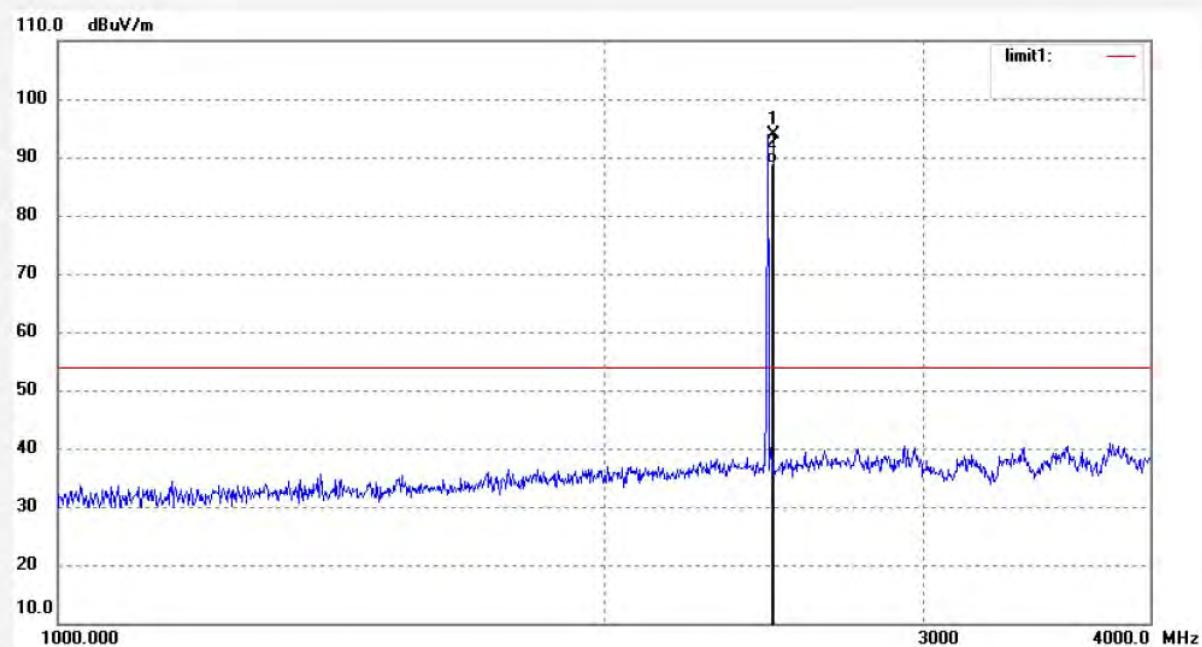
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	112.31	-7.37	104.94	114.00	-9.06	peak			
2	2480.000	99.25	-7.37	91.88	94.00	-2.12	AVG			


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 Site: 966 chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: STAR #2070	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 12/08/18/
Temp.( C)/Hum.(%) 24 C / 48 %	Time: 9/47/44
EUT: 2.4G Wireless mouse	Engineer Signature:
Mode: TX 2480MHz	Distance: 3m
Model: Q7G	
Manufacturer: COMAT	
Note: Report No.:ATE20121911	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	101.20	-7.37	93.83	114.00	-16.69	peak			
2	2480.000	96.25	-7.37	88.88	94.00	-2.01	AVG			


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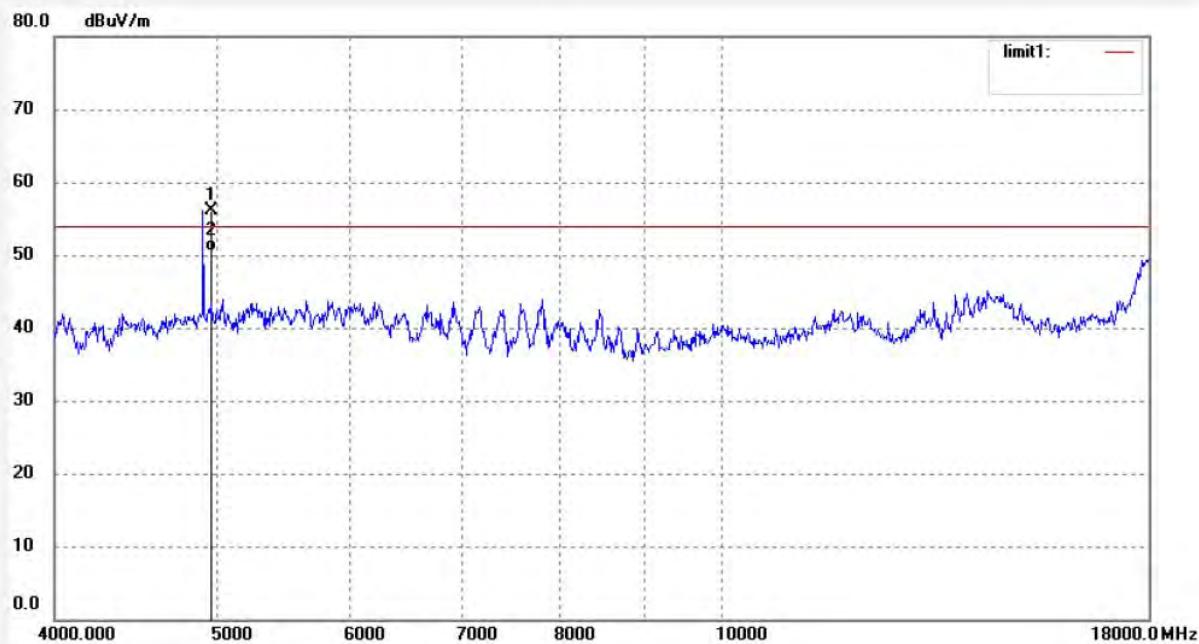
 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: STAR #2076  
 Standard: FCC Class B 3M Radiated  
 Test item: Radiation Test  
 Temp. ( C)/Hum.(%) 24 C / 48 %  
 EUT: 2.4G Wireless mouse  
 Mode: TX 2480MHz  
 Model: Q7G  
 Manufacturer: COMAT

Polarization: Horizontal  
 Power Source: DC 3V  
 Date: 12/08/18/  
 Time: 9:56:37  
 Engineer Signature:  
 Distance: 3m

Note: Report No.:ATE20121911



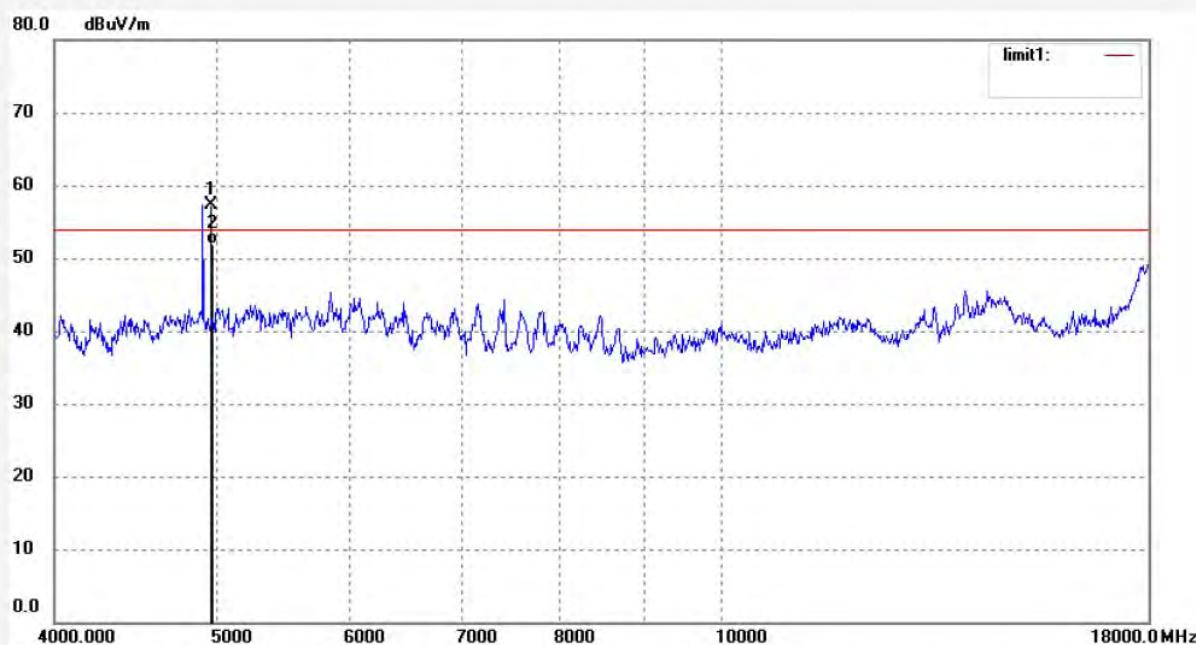
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1	4960.000	55.66	0.52	56.18	74.00	-17.82	peak			
2	4960.000	50.00	0.52	50.52	54.00	-3.48	AVG			


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 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.:	STAR #2075	Polarization:	Vertical
Standard:	FCC Class B 3M Radiated	Power Source:	DC 3V
Test item:	Radiation Test	Date:	12/08/18/
Temp.( C)/Hum.(%)	24 C / 48 %	Time:	9/55/26
EUT:	2.4G Wireless mouse	Engineer Signature:	
Mode:	TX 2480MHz	Distance:	3m
Model:	Q7G		
Manufacturer:	COMAT		
Note:	Report No.:ATE20121911		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4960.000	56.79	0.52	57.31	74.00	-16.69	peak			
2	4960.000	51.47	0.52	51.99	54.00	-2.01	AVG			


**ACCURATE TECHNOLOGY CO., LTD.**

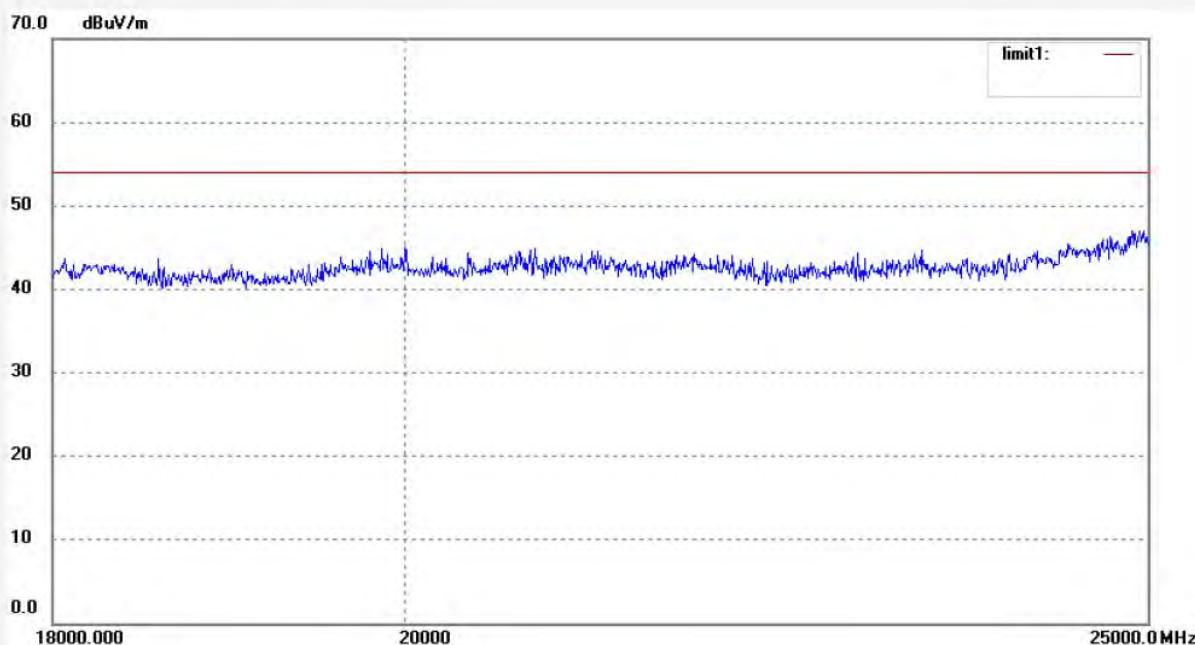
 F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: Star\_tmp #205  
 Standard: FCC Class B 3M Radiated  
 Test item: Radiation Test  
 Temp.( C)/Hum.(%) 25 C / 51 %  
 EUT: 2.4G Wireless mouse  
 Mode: TX 2480MHz  
 Model: Q7G  
 Manufacturer: COMAT

Polarization: Horizontal  
 Power Source: DC 3V  
 Date: 2012/08/22  
 Time: 18:47:12  
 Engineer Signature: Star  
 Distance:

Note: Report No.:ATE20121911



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: Star\_tmp #204

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 3V

Test item: Radiation Test

Date: 2012/08/22

Temp.( C)/Hum.(%) 25 C / 51 %

Time: 18:46:56

EUT: 2.4G Wireless mouse

Engineer Signature: Star

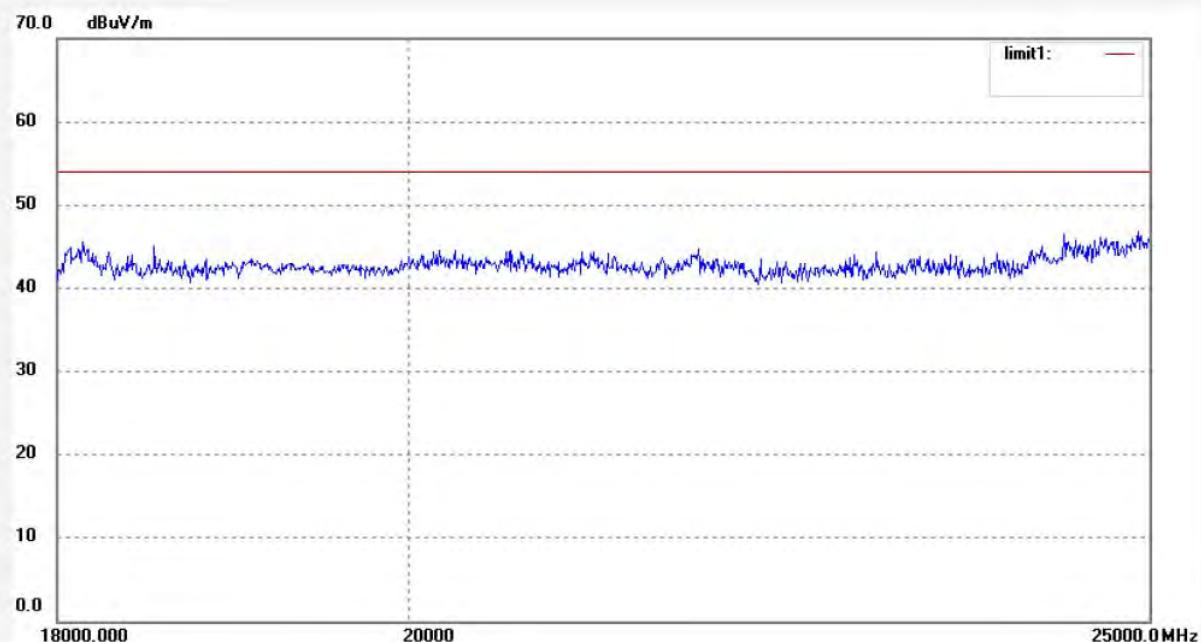
Mode: TX 2480MHz

Distance:

Model: Q7G

Manufacturer: COMAT

Note: Report No.:ATE20121911



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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**ACCURATE TECHNOLOGY CO., LTD.**

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 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: STAR #2080

Polarization: Horizontal

Standard: FCC 15C PK

Power Source: DC 3V

Test item: Radiation Test

Date: 12/08/18/

Temp.( C)/Hum.(%) 24 C / 48 %

Time: 10/03/21

EUT: 2.4G Wireless mouse

Engineer Signature:

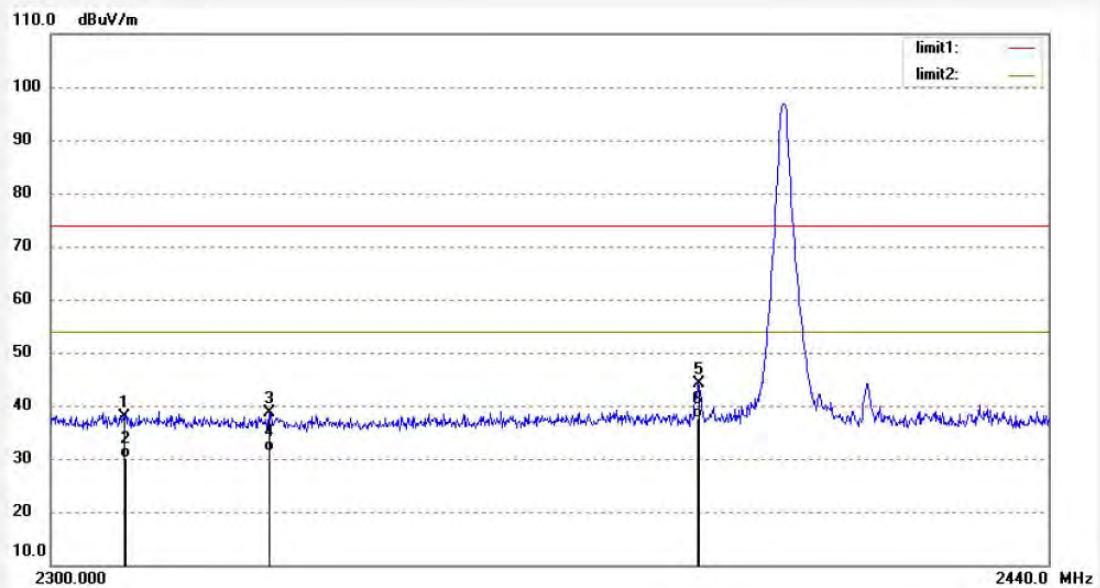
Mode: TX 2402MHz

Distance: 3m

Model: Q7G

Manufacturer: COMAT

Note: Report No.:ATE20121911



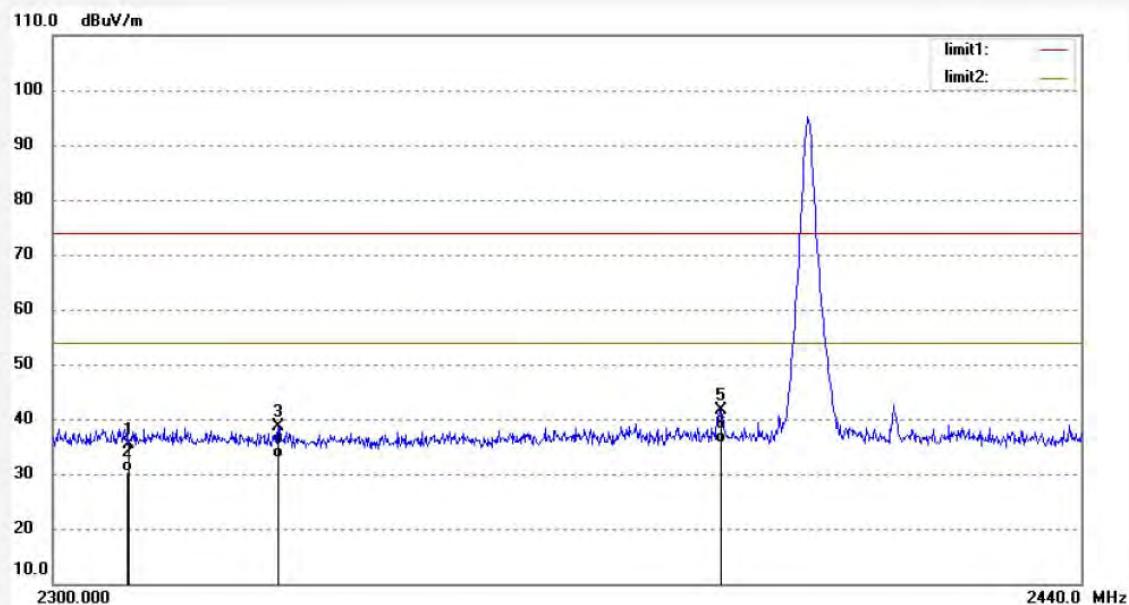
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2310.000	45.71	-7.81	37.90	74.00	-36.10	peak			
2	2310.000	37.89	-7.81	30.08	54.00	-23.92	AVG			
3	2330.017	46.32	-7.80	38.52	74.00	-35.48	peak			
4	2330.017	39.22	-7.80	31.42	54.00	-22.58	AVG			
5	2390.000	51.70	-7.53	44.17	74.00	-29.83	peak			
6	2390.000	45.12	-7.53	37.59	54.00	-16.41	AVG			


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 Site: 966 chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: STAR #2079	Polarization: Vertical
Standard: FCC 15C PK	Power Source: DC 3V
Test item: Radiation Test	Date: 12/08/18/
Temp.( C)/Hum.(%) 24 C / 48 %	Time: 10/02/23
EUT: 2.4G Wireless mouse	Engineer Signature:
Mode: TX 2402MHz	Distance: 3m
Model: Q7G	
Manufacturer: COMAT	
Note: Report No.:ATE20121911	



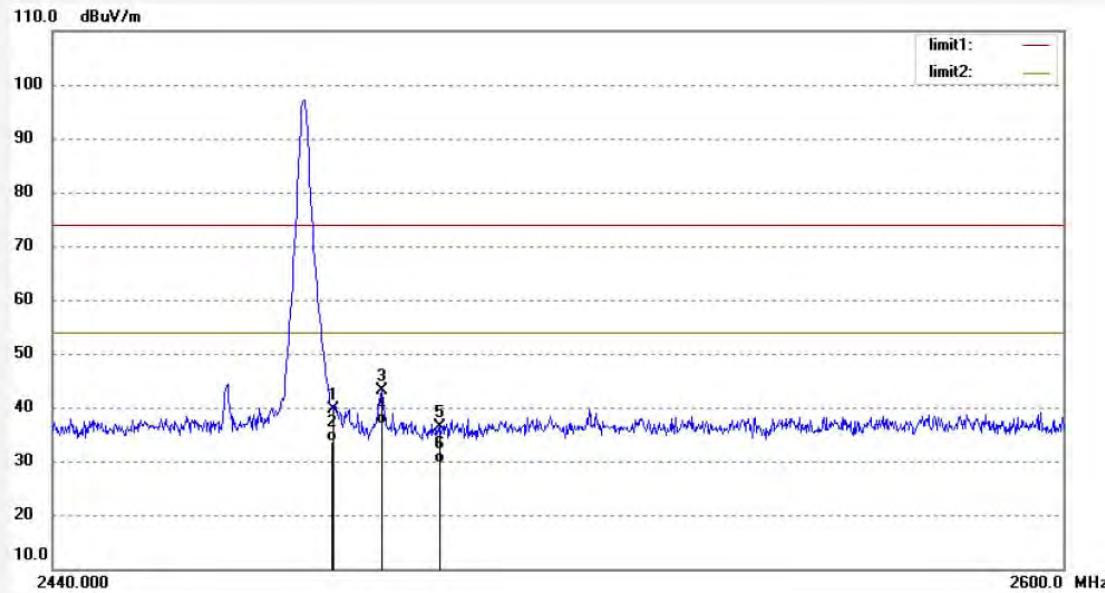
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2310.000	43.08	-7.81	35.27	74.00	-38.73	peak			
2	2310.000	38.25	-7.81	30.44	54.00	-23.56	AVG			
3	2330.017	46.32	-7.80	38.52	74.00	-35.48	peak			
4	2330.017	40.58	-7.80	32.78	54.00	-21.22	AVG			
5	2390.000	49.26	-7.53	41.73	74.00	-32.27	peak			
6	2390.000	43.25	-7.53	35.72	54.00	-18.28	AVG			


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 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: STAR #2077	Polarization: Horizontal
Standard: FCC 15C PK	Power Source: DC 3V
Test item: Radiation Test	Date: 12/08/18/
Temp. ( C)/Hum.(%) 24 C / 48 %	Time: 9/59/41
EUT: 2.4G Wireless mouse	Engineer Signature:
Mode: TX 2480MHz	Distance: 3m
Model: Q7G	
Manufacturer: COMAT	
Note: Report No.:ATE20121911	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	46.99	-7.37	39.62	74.00	-34.38	peak			
2	2483.500	41.00	-7.37	33.63	54.00	-20.37	AVG			
3	2490.993	50.40	-7.38	43.02	74.00	-30.98	peak			
4	2490.993	44.28	-7.38	36.90	54.00	-17.10	AVG			
5	2500.000	43.67	-7.40	36.27	74.00	-37.73	peak			
6	2500.000	37.05	-7.40	29.65	54.00	-24.35	AVG			


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 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: STAR #2078

Polarization: Vertical

Standard: FCC 15C PK

Power Source: DC 3V

Test item: Radiation Test

Date: 12/08/18/

Temp.( C)/Hum.(%) 24 C / 48 %

Time: 10/00/52

EUT: 2.4G Wireless mouse

Engineer Signature:

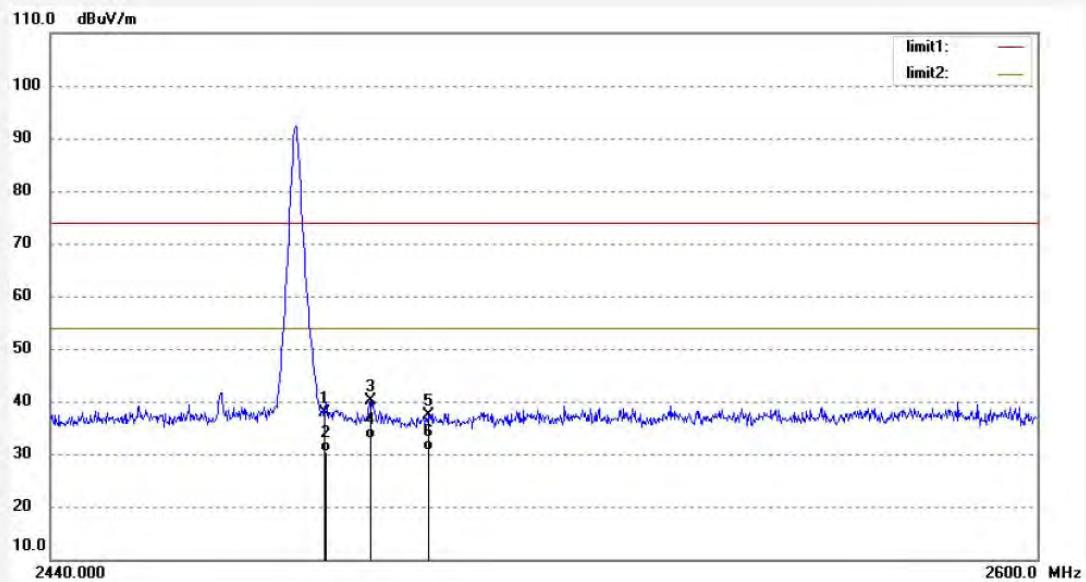
Mode: TX 2480MHz

Distance: 3m

Model: Q7G

Manufacturer: COMAT

Note: Report No.:ATE20121911



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	45.14	-7.37	37.77	74.00	-36.23	peak			
2	2483.500	37.82	-7.37	30.45	54.00	-23.55	AVG			
3	2490.834	47.58	-7.38	40.20	74.00	-33.80	peak			
4	2490.834	40.18	-7.38	32.80	54.00	-21.20	AVG			
5	2500.000	44.79	-7.40	37.39	74.00	-36.61	peak			
6	2500.000	38.15	-7.40	30.75	54.00	-23.25	AVG			