

# FCC Radio TEST Report FCC ID: HQXAKM-012

This report concerns (check one): Original Grant Class I Change

Issued Date : Oct. 06, 2008

Project No. : 0809C068

Equipment : 2.4G Wireless Keyboard

Model Name : AKM-012;PCL-WOD1

Applicant : Sysgration Ltd.

Address: 10Fl., No. 868-3, Chung Cheng Rd., Chung Ho, Taipei,

Taiwan, R.O.C.

Manufacturer: Sysgration (shenzhen) Ltd.

Address : Egongling Village Pinghu Town Longgang Dist.

Shenzhen City.China.

Tested by:

Neutron Engineering Inc. EMC Laboratory

Date of Test:

Sep. 05, 2008 ~ Oct. 06, 2008

Testing Engineer

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Authorized Signatory

(Steven Lui

# NEUTRON ENGINEERING INC.

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#### **Declaration**

**Neutron** represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measuremen Laboratory (**NML**) of **R.O.C.**, or National Institute of Standards and Technology (**NIST**) of **U.S.A.** 

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#### 1. CERTIFICATION

Equipment: 2.4G Wireless Keyboard Trade Name: Sysgration;PC LINE Model Name.: AKM-012;PCL-WOD1

Applicant: Sysgration Ltd.

F a c t o r y: Sysgration (shenzhen) Ltd.

A d d r e s s: Egongling Village.Pinghu Town.Longgang Dist.Shenzhen City.China.

Date of Test: Sep. 05, 2008 ~ Oct. 06, 2008 Test Item: ENGINEERING SAMPLE

Standards: FCC Part15, Subpart C(15.249)/ ANCI C63.4: 2003

The above equipment has been tested and found compliance with the requirement of the relative standards by Neutron Engineering Inc. EMC Laboratory.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FCCP-1-0809C068) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP and TAF according to the ISO-17025 quality assessment standard and technical standard(s).

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# 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15, Subpart C (15.249)				
Standard Section	Test Item	Judgment	Remark	
15.207	Conducted Emission	-	Note(1)	
15.249	Radiated Spurious Emission	PASS		

# NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

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#### 2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **C01/OS02** at the location of No.132-1, Lane 329, Sec. 2, Palian Road, Shijr City, Taipei, Taiwan.

Neutron's test firm number is 95335

#### 2.2 MEASUREMENT UNCERTAINTY

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

# A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U , (dB)	NOTE
C01	ANSI	150 KHz ~ 30MHz	1.94	

#### B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U , (dB)	NOTE
OS-01	ANSI	30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	Н	3.60	
		200MHz ~ 1,000MHz	V	3.86	
		200MHz ~ 1,000MHz	Н	3.94	
OS-02	ANSI	30MHz ~ 200MHz	V	2.48	
		30MHz ~ 200MHz	Н	2.16	
		200MHz ~ 1,000MHz	V	2.50	
		200MHz ~ 1,000MHz	Н	2.66	

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# 3. GENERAL INFORMATION

# 3.1 GENERAL DESCRIPTION OF EUT

Equipment	2.4G Wireless Keyboard		
Trade Name	Sysgration;PC LINE		
Model Name.	AKM-012;PCL-WOD1		
OEM Brand/Model Name	N/A		
Model Difference	Different models for diff	erent customers.	
	The EUT is a 2.4G Wire	eless Keyboard.	
	Product Type	Low Power Communication	
		Device	
	Operation Frequency:	2402~2480 MHz	
	Modulation Type:	GFSK	
	Number Of Channel	16CH	
Product Description	Antenna Designation:	Printed antenna	
	Antenna Gain(Peak)	2.43 dBi	
	Output Power:	87.13 dBuV/m (AV Max.)	
		n, features, or specification	
		ual, the EUT is considered as an	
		More details of EUT technical	
	specification, please refer to the User's Manual.		
Channel List	Please refer to the Note 2.		
Power Source	DC Voltage supplied from 2*AAA size Battery		
Power Rating	DC 3.0V		
Connecting I/O Port(s)	Please refer to the User's Manual		

# Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

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Neutron Engineering Inc.

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Frequency Band	Channel No.	Frequency
	1	2402 MHz
	2	2425 MHz
	3	2440 MHz
	4	2471 MHz
	5	2405 MHz
	6	2428 MHz
	7	2451 MHz
2400~2483.5MHz	8	2474 MHz
2400~2463.5WII IZ	9	2408 MHz
	10	2431 MHz
	11	2454 MHz
	12	2477 MHz
	13	2411 MHz
	14	2434 MHz
	15	2457 MHz
	16	2480 MHz

# 3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Printed Antenna	N/A	2.43

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#### 3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	CH Lower - 2402MHz
Mode 2	CH Middle - 2440MHz
Mode 3	CH Highest -2480MHz

For Conducted Test		
Final Test Mode Description		
	" N/A" denotes test is not applicable in this Test Report	

For Radiated Test		
Final Test Mode	Description	
Mode 1	CH Lower - 2402MHz	
Mode 2	CH Middle - 2440MHz	
Mode 3	CH Highest -2480MHz	

Note:

(1) The Keyboard used the new battery

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MEUTRUM	<u>Neutron Engineering II</u>
3	
3.3 BLOCK DIGRAM SHOWING TH	HE CONFIGURATION OF SYSTEM TESTED
	E-1 EUT

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#### 3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
E-1	2.4G Wireless Keyboard	Sysgration	AKM-012	HQXAKM-012	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note

#### Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>"Length\_"</code> column.

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#### 4. EMC EMISSION TEST

#### 4.1 CONDUCTED EMISSION MEASUREMENT

# 4.1.1 POWER LINE CONDUCTED EMISSION LIMITS (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B	Standard	
TREQUENCT (IVII 12)	Quasi-peak	Average	Quasi-peak	Average	Stariuaru
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

#### Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

#### 4.1.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	00042991	Jan. 24, 2009
2	LISN	EMCO	3816/2	00042990	Jan. 24, 2009
3	Pulse Limiter	Electro-Metrics	EM-7600	112644	Nov. 27, 2008
4	50Ω Terminator	N/A	N/A	N/A	May.12, 2009
5	Test Cable	N/A	C01	N/A	Nov. 27, 2008
6	EMI Test Receiver	R&S	ESCI	100082	Mar. 07, 2009

Remark: "N/A" denotes No Model Name., Serial No. or No Calibration specified.

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

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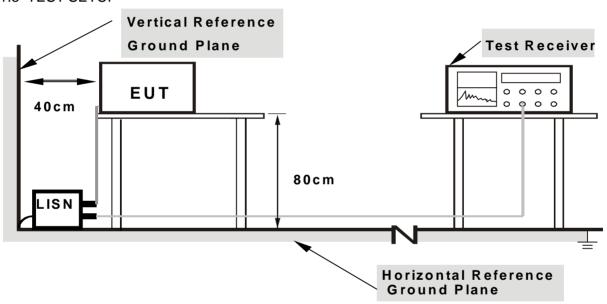
#### 4.1.3 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. 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.
- c. 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.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

#### 4.1.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.1.5 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

# 4.1.6 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.

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#### 4.1.7 TEST RESULTS

EUT:	2.4G Wireless Keyboard	Model Name. :	AKM-012		
Temperature:	<b>29</b> ℃	Relative Humidity:	62 %		
Pressure :	1010 hPa	Test Power :	DC 3.0V		
Test Mode :	" N/A" denotes test is not applicable in this Test Report				

#### Remark

- (1) All readings are QP Mode value unless otherwise stated AVG in column of Note I the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform In this case, a " \* " marked in AVG Mode column of Interference Voltage Measured In the Note of Interference Voltage Measured Interference Interference Voltage Measured Int
- (2) Measuring frequency range from 150KHz to 30MHz.
- (3) " N/A" denotes test is not applicable in this Test Report

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#### 4.2 RADIATED EMISSION MEASUREMENT

# 4.2.1 RADIATED EMISSION LIMITS (FCC 15.209)

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

Harmonic emissions limits comply with below 54 dBuV/m at 3m. Other 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 comply with the radiated emissions limits specified in section 15.209(a) limit in the table below has to be followed.

#### Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).

# LIMITS OF RADIATED EMISSION MEASUREMENT (FCC 15.209)

FREQUENCY (MHz)	Class A (dBuV/m) (at 3n			ıV/m) (at 3m)
PREQUENCT (WITZ)	PEAK AVERAGE		PEAK	AVERAGE
Above 1000	80	60	74	54

#### Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

#### LIMITS OF RADIATED EMISSION MEASUREMENT (FCC Part 15.249)

FCC Part15 (15.249), Subpart C			
Limit Frequency Range (MHz)			
Field strength of fundamental 50000 μV/m (94 dBμV/m) @ 3 m	2400-2483.5		
Field strength of harmonics 500 μV/m (54 dBμV/m) @ 3 m	Above 2483.5		

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# 4.2.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Log-Bicon Antenna	Schwarzbeck	VULB 9160	3058	Nov. 27, 2008
2	Test Cable	N/A	10M_OS02	N/A	Nov. 27, 2008
3	Test Cable	N/A	OS02-1/-2/-3	N/A	Nov. 27, 2008
4	Pre-Amplifier	Anritsu	MH648A	M09961	Nov. 27, 2008
5	EMI Test Receiver	R&S	ESCI	100082	Jan. 30, 2009
6	Antenna Mast	Chance Most	CMTB-1.5	N/A	N/A
7	Turn Table	Chance Most	CMTB-1.5	N/A	N/A
8	Spectrum Analyzer	R&S	FSP_40	100129	Jan. 07, 2009
9	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-325	Oct. 24, 2008
10	Horn Antenna	Schwarzbeck	BBHA9170	9170187	Oct. 24, 2008
11	Microwave Pre_amplifier	Agilent	8449B	3008A01714	Mar. 09, 2009
12	Microflex Cable	United Microwave	57793	1m	Mar. 09, 2009
13	Microflex Cable	United Microwave	A30A30-5006	10M	Jul. 06, 2009

Remark: "N/A" denotes No Model Name. / Serial No. and No Calibration specified.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1MHz / 3MHz for Peak, 1 MHz / 10Hz for Average

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

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#### 4.2.3 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

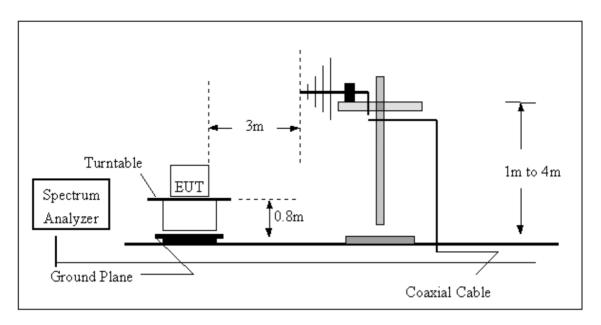
4.2.4 DEVIATION FROM TEST STANDARD
No deviation

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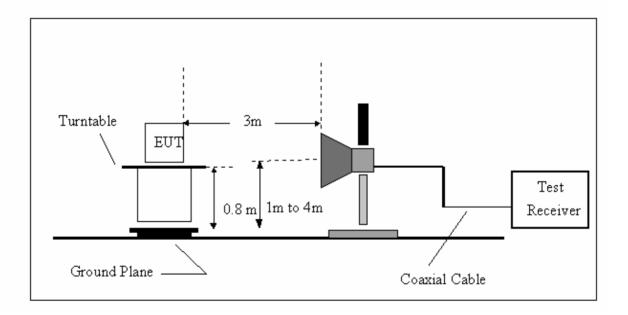


#### 4.2.5 TEST SETUP

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



#### 4.2.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **4.1.6** Unless otherwise a special operating condition is specified in the follows during the testing.

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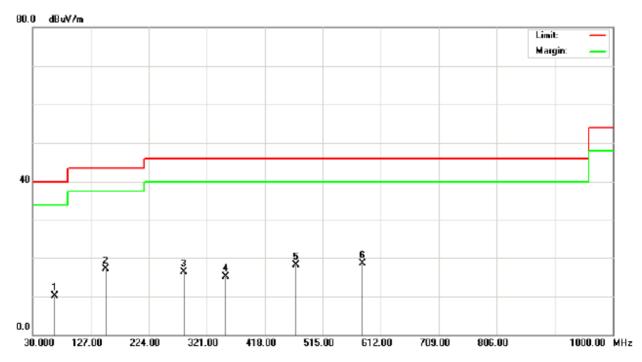
# 4.2.7 TEST RESULTS (BETWEEN 30 - 1000 MHz)

EUT:	2.4G Wireless Keyboard	Model Name. :	AKM-012
Temperature:	30 ℃	Relative Humidity:	63 %
Pressure:	1010hPa	Test Power :	DC 3.0V
Test Mode :	TX Mode		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Note
66.86	V	32.65	-22.55	10.10	40.00	- 29.90	
152.22	V	37.18	-20.11	17.07	43.50	- 26.43	
282.20	V	32.08	-15.78	16.30	46.00	- 29.70	
352.04	V	28.43	-13.34	15.09	46.00	- 30.91	
470.38	V	28.88	-10.82	18.06	46.00	- 27.94	
580.96	V	27.47	-8.90	18.57	46.00	- 27.43	

#### Remark:

- (1) All readings are Peak unless otherwise stated QP in column of  $^{\mathbb{F}}$ Note $_{\mathbb{J}}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $_{\circ}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency  $\circ$  "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission
- (4) Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



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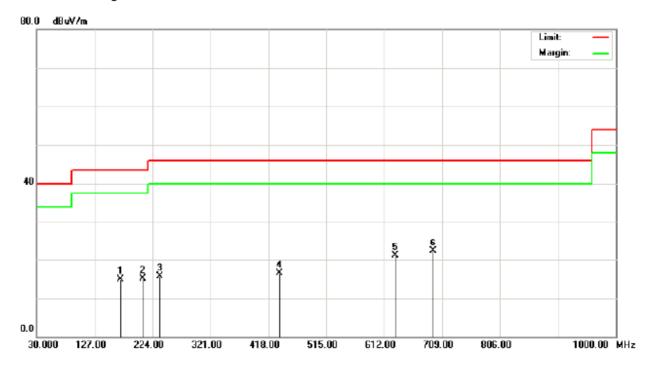


EUT:	2.4G Wireless Keyboard	Model Name. :	AKM-012
Temperature:	30 ℃	Relative Humidity:	63 %
Pressure:	1010 hPa	Test Power :	DC 3.0V
Test Mode :	TX Mode		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Note
170.65	Η	34.63	-19.79	14.84	43.50	- 28.66	
207.51	Ι	33.69	-18.59	15.10	43.50	- 28.40	
236.61	Н	32.87	-17.19	15.68	46.00	- 30.32	
436.43	Н	28.39	-11.96	16.43	46.00	- 29.57	
630.43	Η	28.43	-7.24	21.19	46.00	- 24.81	
693.28	Н	28.73	-6.33	22.40	46.00	- 23.60	

#### Remark:

- (1) All readings are Peak unless otherwise stated QP in column of  $^{\mathbb{C}}$  Note  $_{\mathbb{Z}}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $_{\circ}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission
- (4) Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



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#### 4.2.8 TEST RESULTS (ABOVE 1000 MHz)

EUT:	2.4G Wireless Keyboard	Model Name :	AKM-012
Temperature:	30 ℃	Relative Humidity:	63 %
Pressure:	1010 hPa	Test Power :	DC 3.0V
Test Mode :	TX 2402MHz		

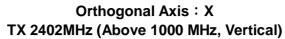
Freq.	Ant.Pol.	Rea	ding	Ant./CF	A	ct.	Lir	nit	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	21.19	10.09	32.05	53.24	42.14	74.00	54.00	X/E
2402.28	V	49.73	49.21	32.09	81.82	81.30	114.00	94.00	X/F
4804.66	V	53.89	49.11	3.51	57.40	52.62	74.00	54.00	X/H

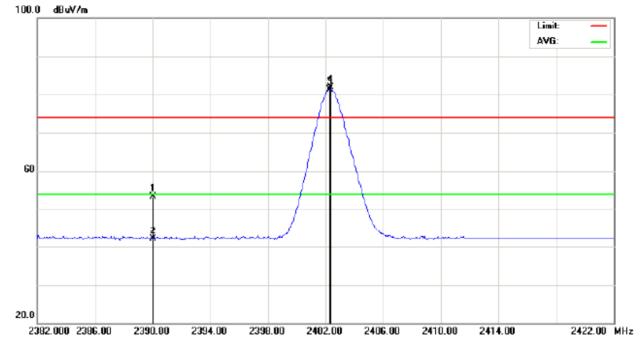
#### Remark:

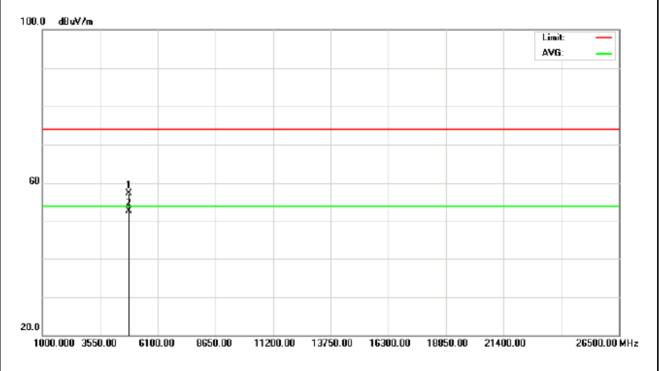
- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ∘
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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EUT:	2.4G Wireless Keyboard	Model Name. :	AKM-012
Temperature:	30 ℃	Relative Humidity:	63 %
Pressure :	1010 hPa	Test Power :	DC 3.0V
Test Mode :	TX 2402MHz		

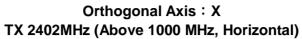
Freq.	Ant.Pol.	Rea	ding	Ant./CF	A	ct.	Lir	mit	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	Н	20.50	10.48	32.05	52.55	42.53	74.00	54.00	X/E
2402.28	Н	53.64	53.25	32.09	85.73	85.34	114.00	94.00	X/F
4804.56	Н	53.24	49.03	3.51	56.75	52.54	74.00	54.00	X/H

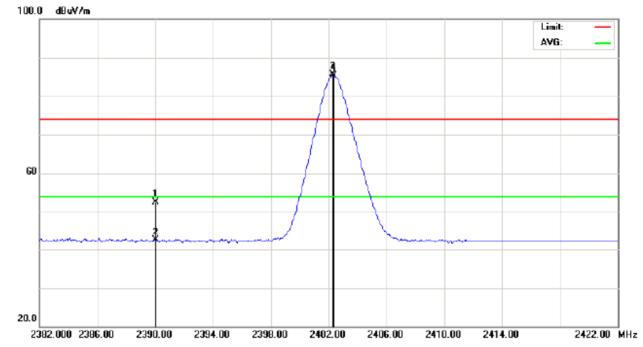
#### Remark:

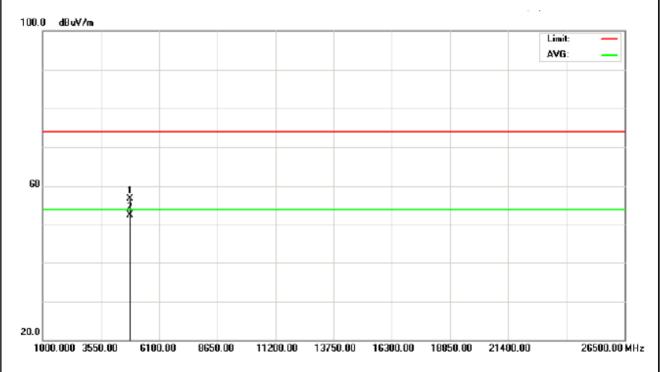
- (1) All readings are Peak unless otherwise stated QP in column of  ${}^{\mathbb{F}}$ Note  ${}_{\mathbb{J}}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  ${}_{\circ}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission •
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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EUT:	2.4G Wireless Keyboard	Model Name. :	AKM-012
Temperature:	30 ℃	Relative Humidity:	63 %
Pressure:	1010 hPa	Test Power :	DC 3.0V
Test Mode :	TX 2448MHz		

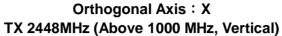
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2448.32	V	52.62	52.19	32.24	84.86	84.43	114.00	94.00	X/F
4896.60	V	52.42	49.57	3.79	56.21	53.36	74.00	54.00	X/H

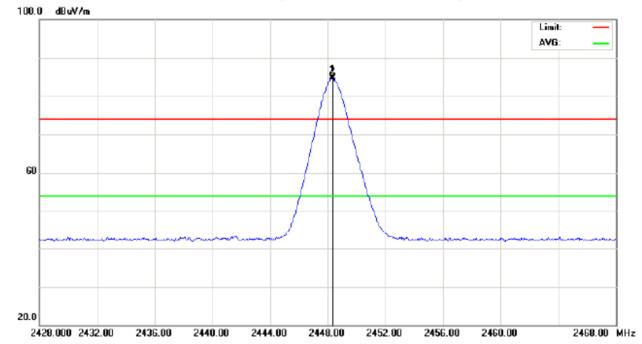
#### Remark:

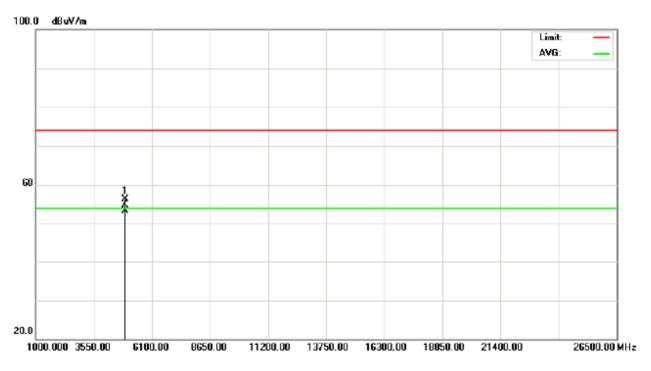
- (1) All readings are Peak unless otherwise stated QP in column of  $^{\mathbb{F}}$  Note  $_{\mathbb{J}}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $_{\circ}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission •
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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EUT:	2.4G Wireless Keyboard	Model Name. :	AKM-012
Temperature:	30 ℃	Relative Humidity:	63 %
Pressure:	1010 hPa	Test Power :	DC 3.0V
Test Mode :	TX 2448MHz		

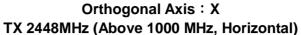
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2448.32	Н	54.40	53.99	32.24	86.64	86.23	114.00	94.00	X/F
4896.64	Н	52.97	49.72	3.79	56.76	53.51	74.00	54.00	X/H

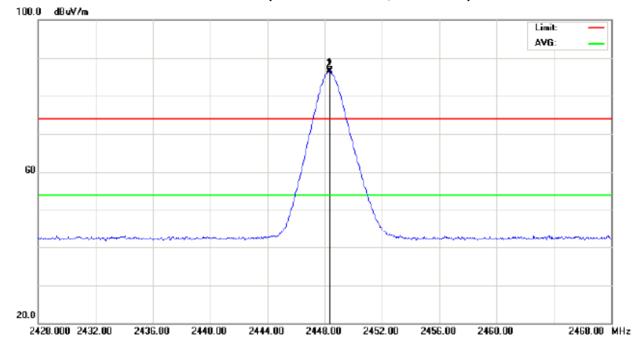
#### Remark:

- (1) All readings are Peak unless otherwise stated QP in column of  ${}^{\mathbb{F}}$ Note  ${}_{\mathbb{J}}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  ${}_{\circ}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission •
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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EUT:	2.4G Wireless Keyboard	Model Name. :	AKM-012
Temperature:	30 ℃	Relative Humidity:	63 %
Pressure:	1010 hPa	Test Power :	DC 3.0V
Test Mode :	TX 2480MHz		

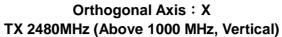
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2480.30	V	55.18	54.79	32.34	87.52	87.13	114.00	94.00	X/F
2483.50	V	21.63	16.55	32.34	53.97	48.89	74.00	54.00	X/E
4960.62	V	52.35	49.40	3.98	56.33	53.38	74.00	54.00	X/H

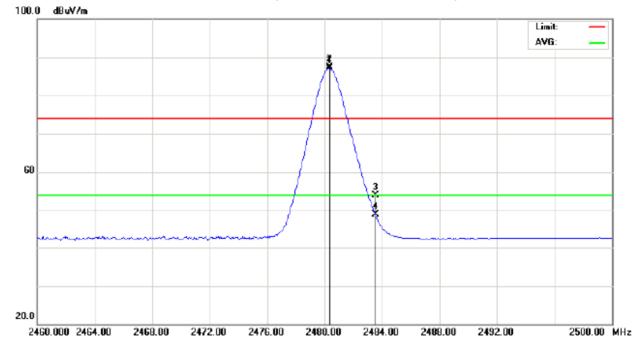
#### Remark:

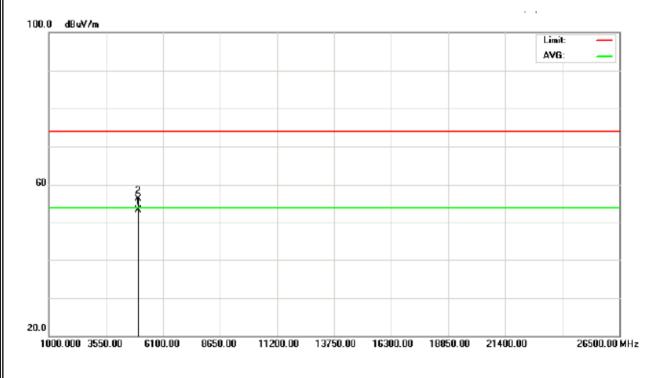
- (1) All readings are Peak unless otherwise stated QP in column of  ${}^{\mathbb{F}}$ Note  ${}_{\mathbb{J}}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  ${}_{\circ}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission •
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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EUT:	2.4G Wireless Keyboard	Model Name. :	AKM-012
Temperature:	30 ℃	Relative Humidity:	63 %
Pressure:	1010 hPa	Test Power :	DC 3.0V
Test Mode :	TX 2480MHz		

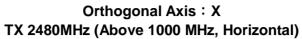
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2480.32	Н	53.05	52.68	32.34	85.39	85.02	114.00	94.00	X/F
2483.50	Н	22.02	14.84	32.34	54.36	47.18	74.00	54.00	X/E
4960.64	Н	50.38	46.08	3.98	54.36	50.06	74.00	54.00	X/H

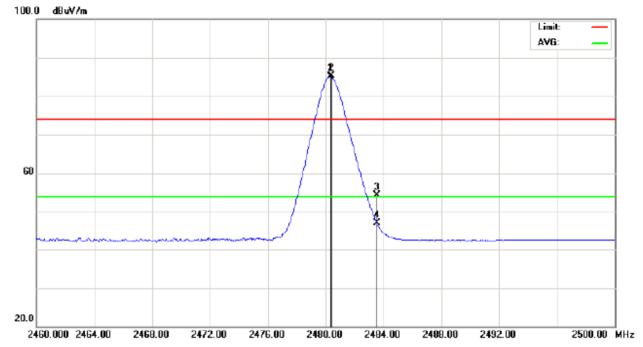
#### Remark:

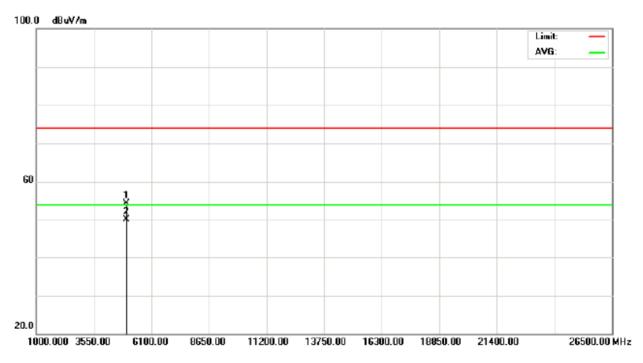
- (1) All readings are Peak unless otherwise stated QP in column of  ${}^{\mathbb{F}}$ Note  ${}_{\mathbb{J}}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  ${}_{\circ}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission •
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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## 4.2.9 TEST RESULTS (2400 - 2483.5 MHz)

EUT:	2.4G Wireless Keyboard	Model Name. :	AKM-012				
Temperature:	<b>30</b> ℃	Relative Humidity:	63 %				
Pressure :	1010 hPa Test Power : DC 3.0V						
Test Mode :	TX CH 2402MHz/2448MHz/2480MHz						

		Peak	AV		Peak	AV	Peak	AV	
Freq.	Ant.Pol.	Rea	ding	Ant./CL/	Actua	al FS	Limit3m		
(MHz)	(H/V)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	NOTE
2402.28	V	49.73	49.21	32.09	81.82	81.30	114.00	94.00	CH01
2402.28	Н	53.64	53.25	32.09	85.73	85.34	114.00	94.00	CH01
2448.32	V	52.62	52.19	32.24	84.86	84.43	114.00	94.00	CH03
2448.32	Н	54.40	53.99	32.24	86.64	86.23	114.00	94.00	CH03
2480.30	V	55.18	54.79	32.34	87.52	87.13	114.00	94.00	CH16
2480.32	Н	53.05	52.68	32.34	85.39	85.02	114.00	94.00	CH16

#### Remark:

- (1) All readings are Peak unless otherwise stated QP in column of  $^{\mathbb{C}}$  Note  $_{\mathbb{Z}}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $_{\circ}$
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission •
- (3) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (5) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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# 4.2.10 TEST RESULTS (Restricted Bands Requirements)

EUT:	2.4G Wireless Keyboard	Model Name. :	AKM-012				
Temperature:	<b>30</b> ℃	Relative Humidity:	63 %				
Pressure:	1010 hPa	Test Power :	DC 3.0V				
Test Mode :	TX CH 2402MHz/2480MHz(Vertical)						
Note:	<ul> <li>The emission of the carrier radial</li> <li>AV) as following:</li> <li>1. The transmitter was then corto transmit at the lowest charmeasured at 2310-2390 MH;</li> <li>2. The transmitter was configurationsmit at the highest charmeasured at 2483.5-2500 M</li> </ul>	nfigured with the wor nnel (CH01). Then th z. red with the worst can nel (CH16). Then the	st case antenna and setup ne field strength was se antenna and setup to				

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	21.19	10.09	32.05	53.24	42.14	74.00	54.00	CH01
2483.50	V	21.63	16.55	32.34	53.97	48.89	74.00	54.00	CH16

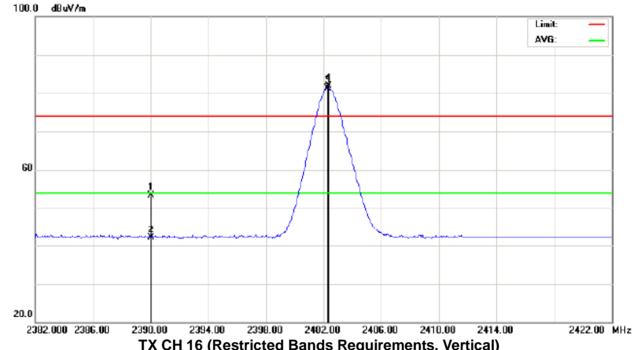
#### Remark:

- (1) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission  $\,^{\circ}$
- (2) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (3) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

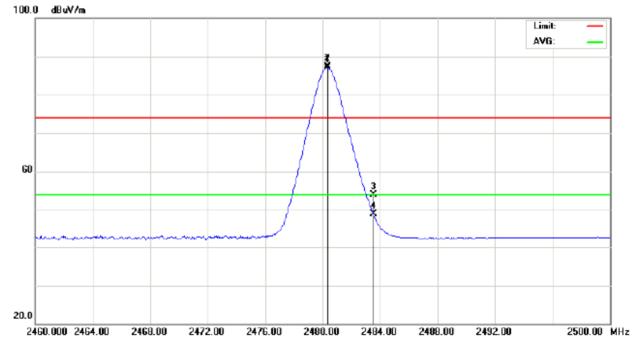
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EUT:	2.4G Wireless Keyboard	Model Name. :	AKM-012				
Temperature:	30 ℃	Relative Humidity:	63 %				
Pressure :	1010 hPa	Test Power :	DC 3.0V				
Test Mode :	TX CH 2402MHz/2480MHz (Horizontal)						
Note:	<ul> <li>The emission of the carrier radial</li> <li>AV) as following:</li> <li>1. The transmitter was then conto transmit at the lowest charmeasured at 2310-2390 MHz</li> <li>2. The transmitter was configurationsmit at the highest charmeasured at 2483.5-2500 M</li> </ul>	nfigured with the wor nnel (CH01). Then th z. red with the worst can nel (CH16). Then the	st case antenna and setup ne field strength was se antenna and setup to				

Freq.	Ant.Pol.	Rea	ding	Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	Н	20.50	10.48	32.05	52.55	42.53	74.00	54.00	CH01
2483.50	Н	22.02	14.84	32.34	54.36	47.18	74.00	54.00	CH16

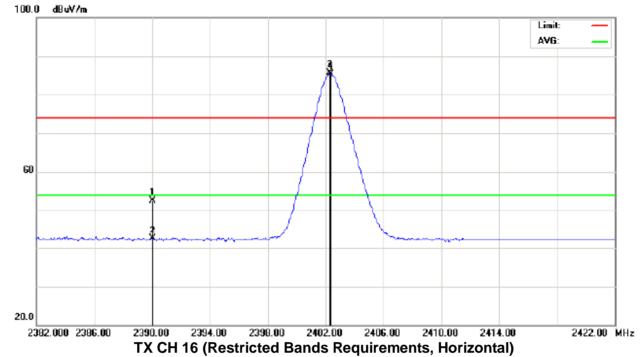
#### Remark

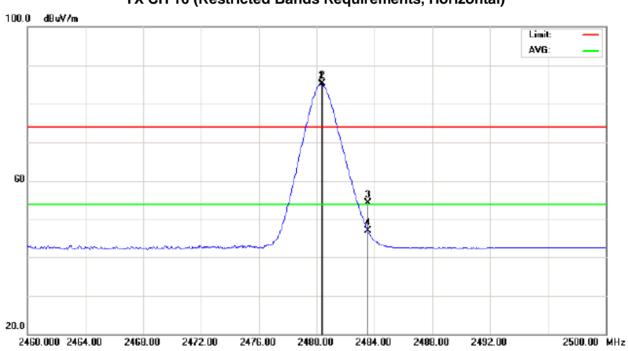
- (1) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission
- (2) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (3) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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# TX CH 01 (Restricted Bands Requirements, Horizontal)





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#### 5. BANDWIDTH TEST

## 5.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP_40	100129	Jan. 07, 2009

Remark: "N/A" denotes No Model Name., Serial No. or No Calibration specified.

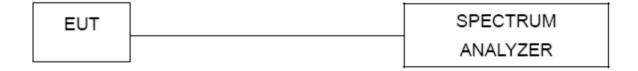
#### 5.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=100KHz, Sweep time = 2.5 ms.

#### 5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



# 5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

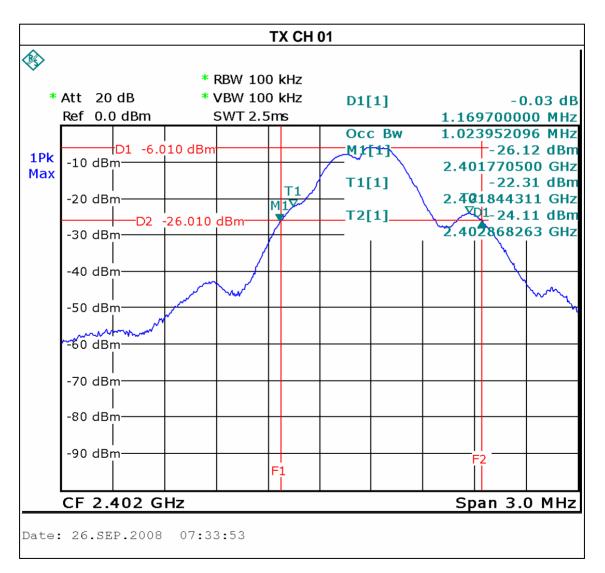
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#### 5.6 TEST RESULTS

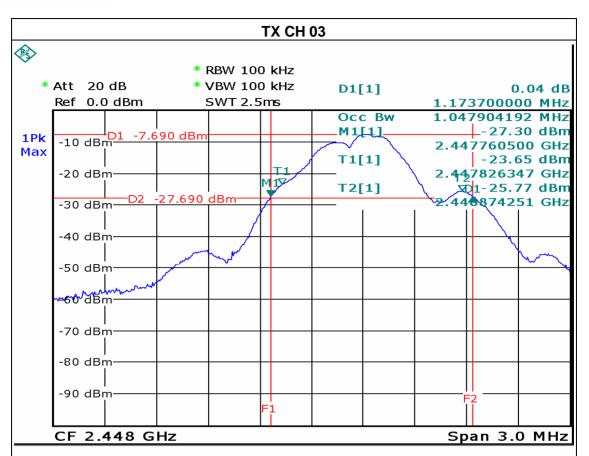
EUT:	2.4G Wireless Keyboard	Model Name. :	AKM-012
Temperature:	<b>30</b> ℃	Relative Humidity:	63%
Pressure:	1010 hPa	Test Power :	DC 3.0V
Test Mode :	TX CH 01/03/16		

Test Channel	Frequency (MHz)	20 dBc Bandwidth (MHz)	99% occupied Bandwidth(MHz)
CH 01	2402	1.1697	1.0240
CH 03	2440	1.1737	1.0479
CH 16	2480	1.1737	1.0359

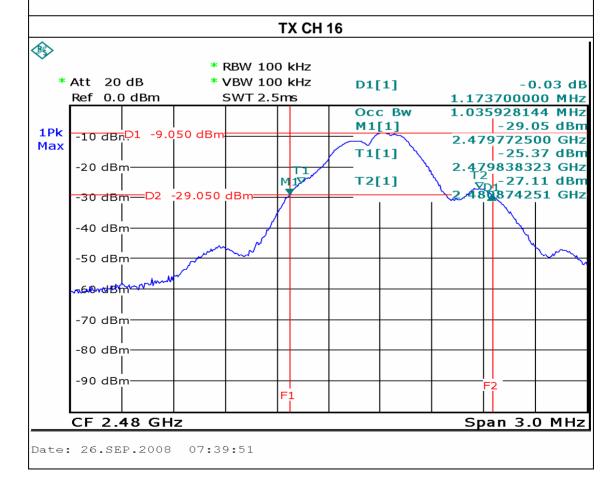


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#### 6. ANTENNA CONDUCTED SPURIOUS EMISSION

#### 6.1 APPLIED PROCEDURES / LIMIT

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

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

#### 6.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
8	Spectrum Analyzer	R&S	FSP_40	100129	Jan. 07, 2009

Remark: "N/A" denotes No Model Name., Serial No. or No Calibration specified.

The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	100 MHz
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (other emission)	100 KHz /100 KHz for Peak

# 6.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=100KHz, Sweep time = 10 ms.

#### 6.1.3 DEVIATION FROM STANDARD

No deviation.

#### 6.1.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

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# 6.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

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# 6.1.6 TEST RESULTS

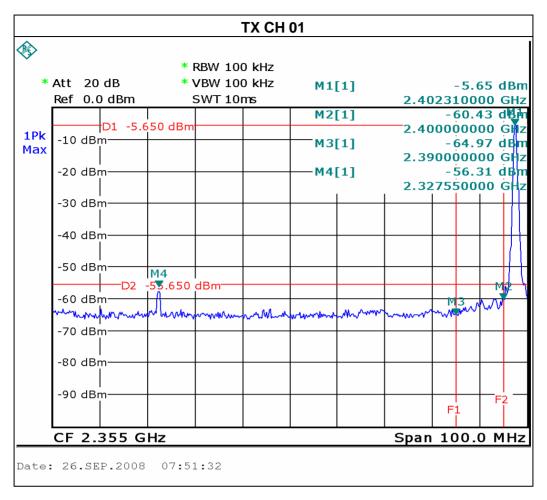
EUT:	2.4G Wireless Keyboard	Model Name. :	AKM-012
Temperature:	30℃	Relative Humidity:	63 %
Pressure:	1010 hPa	Test Power :	DC 3.0V
Test Mode :	TX CH01, CH16		

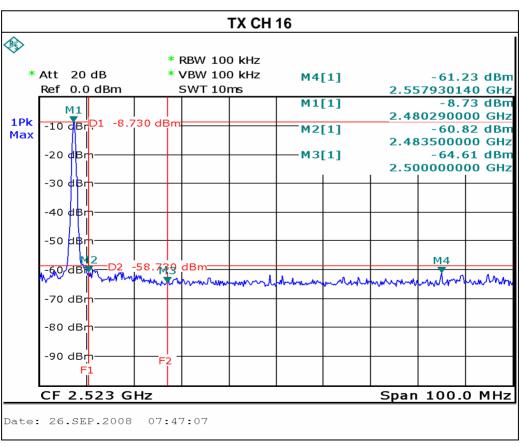
Channel of Worst Data: CH01				
The max. radio frequent bandwidth outside		The max. radio frequence bandwidth within the		
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)	
2327.55 -56.31 2483.50 -60.82				
Result				

In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 50dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.

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# 7. EUT TEST PHOTO

# **Radiated Measurement Photos**





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