

Report No.: F-R0908001 Page 1 of

FCC ID: HQKKMEKA7A81

FCC Test Report

Client Information:

Applicant:

KEY MOUSE ELECTRONIC ENTERPRISE CO., LTD.

Applicant add.:

No.3, Wugong 5th Rd., Sinjhuang City, Taipei County 242, Taiwan

EUT Information:

EUT Name:

Wireless Keyboard

Model No .:

KA-7A81,KA-xxyy(x=0~9, A~Z; y=0~9, A~Z)

Brand Name:

N/A

Prepared By:

Asia Institute Technology (Dongguan) Limited

Add.: No.6 Binhe Road, Tianxin Village, Huangjiang,

Dongguan, Guangdong, China.

Date of Receipt: Aug. 20, 2009

Date of Test: Aug.20. ~ Aug.26, 2009

Date of Issue:

Aug. 26, 2009

Test Result:

Pass

Test procedure used: ANSI C63.4-2003

This device described above has been tested by Asia Institute Technology (Dongguan) Limited, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

*This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. government.

NVLAP Lab. Code: 200800-0

: 4 - 6

Reviewed by: Fovey

Asia Institute Technology (Dongguan) Limited No,6.Binhe Road, Tianxin Village, Huangjiang, Dongguan, Guangdong, China.

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2 Test Summary

2.1 Compliance with FCC Part 15 subpart C

| Test | Test Requirement | Stanadard Paragraph | Result |
|----------------------|--------------------|--|--------|
| Antenna requirement | FCC Part 15 C:2008 | Section 15.203 | PASS |
| Conduction Emissions | FCC Part 15 C:2008 | Section 15.249 | N/A |
| Radiated Emissions | FCC Part 15 C:2008 | Section 15.249(a) Section 15.249(d) | PASS |
| Band edges | FCC Part 15 C:2008 | Section 15.249(d) | PASS |
| Occupied Bandwidth | FCC Part 15 C:2008 | Section 15.215 | PASS |

2.2 Measurement Uncertainty

All measurements involve certain levels of uncertainties, The following measurements uncertainty Level have estimated based on ANSI C63.4:2003, the maximum value of the uncertainty as below

| No. Item | | Uncertainty | |
|----------|-------------------------|-------------|--|
| 1 | Conducted Emission Test | ±1.38dB | |
| 2 | Radiated Emission Test | ±3.57dB | |



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3 Test Facility

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

.NVLAP- Lab Code: 200800-0

Asia Institute Technology (Dongguan) Limited has been accredited by NVLAP on April 29, 2008.

.FCC- Registration No: 248337

The 3m Semi-Anechoic Chamber, 3m/10m Open Area Test Site and Shielding Room of Asia Institute Technology (Dong guan) Limited have been registered by Federal Communications Commission (FCC) on Dec.07, 2006.

.Industry Canada(IC)-Registration No: IC6819A-1 & IC6819A-2

The 3m Semi-Anechoic Chamber and 3m/10m Open Area Test Site of Asia Institute Technology (Dongguan) Limited have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing on Nov.07, 2006.

.VCCI- Registration No: R-2482 & C-2730

The 3m/10m Open Area Test Site and Shielding Room of Asia Institute Technology (Dongguan) Limited have been registered by Voluntary Control Council for Interference on Jan.24, 2007.

.TUV Rhineland

Asia Institute Technology (Dongguan) Limited has been assessed on Jan.16, 2007 that it can carry out EMC tests by order and under supervision of TUV Rhineland.

.ITS- Registration No: TMPSHA031

Asia Institute Technology (Dongguan) Limited has been assessed and included in Intertek Shanghai TMP Program regarding Laboratory facilities and test equipment on Nov.10, 2006.

3.1 Deviation from standard

None

3.2 Abnormalities from standard conditions



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4 General Information

4.1 General Description of EUT

| Manufacturer: | DONGGUAN EASTECH ELECTRICAL PRODUCTS CO., LTD. | | |
|------------------------|--|--|--|
| Manufacturer Address: | No.182, Kuiqing Rd., Qinghuang Industrial District, Qingxi Town, Dongguan City, Guangdong, 523650, China | | |
| EUT Name: | Wireless Keyboard | | |
| Model No: | KA-7A81, KA-xxyy(x=0~9, A~Z; y=0~9, A~Z) | | |
| Operation frequency: | 2405 MHz to 2476MHz | | |
| Channel Number: | 16 | | |
| Modulation Technology: | GFSK | | |
| Antenna Type: | extended wire lay on PCB | | |
| Brand Name: | N/A | | |
| Serial No: | N/A | | |
| Power Supply Range: | DC 3V from battery | | |
| Power Supply: | DC 3V from battery | | |
| Power Cord: | N/A | | |
| Madal descriptions (A) | | | |

Model description: KA-xxyy(x=0~9, A~Z; y=0~9, A~Z)

All the models are totally identical, 'x' means the product's color depend on different markets' requirement. 'y' means the export country depend on different markets' requirement.

Description of Channel:

| · | | | | |
|---------|-----------------|---------|-----------------|--|
| channel | Frequency (MHz) | channel | Frequency (MHz) | |
| 0 | 2405 | 9 | 2431 | |
| 1 | 2425 | 10 | 2454 | |
| 2 | 2448 | 11 | 2475 | |
| 3 | 2471 | 12 | 2411 | |
| 4 | 2407 | 13 | 2439 | |
| 5 | 2428 | 14 | 2457 | |
| 6 | 2451 | 15 | 2476 | |
| 7 | 2473 | | | |
| 8 | 2409 | | | |



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4.2 Description of Test conditions

| EUT was tested in normal configuration (Please See following Block diagram) | | | | | |
|---|-----|--|--|--|--|
| Block diagram of EUT configuration | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | EUT | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

(2) E.U.T. test conditions:

15.31(e): For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery operated equipment, the equipment tests shall be performed using a new battery.

(3) Test frequencies:

According to the 15.31(m) Measurements on intentional radiators or receivers, other than TV broadcast receivers, shall be performed and. if required. Reported for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table:

| Frequency range over | Number of | Location in | |
|-----------------------|-------------|-------------------------------|--|
| which device operates | frequencies | the range of operation | |
| 1 MHz or less | 1 | Middle | |
| 1 to 10 MHz | 2 | 1 near top and 1 near bottom | |
| More than 10 MHz | 3 | 1 near top, 1 near middle and | |
| More than 10 MHz | 3 | 1 near bottom | |

(4) Frequency range of radiated measurements:

According to the 15.33, the test range will be up to the tenth harmonic of the highest fundamental frequency



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4.3 Peripheral List

| No. | Equipment | Manufacturer | Model No. | Serial No. | Power cord | signal cable |
|-----|-----------|--------------|-----------|------------|------------|--------------|
| 1 | N/A | N/A | N/A | N/A | N/A | N/A |

5 Equipments List for All Test Items

| No | Test Equipment | Manufacturer | Model No | Serial No | Cal. Date | Cal. Due Date |
|----|---|--------------|------------------|------------|------------|------------------|
| 1 | Spectrum Analyzer | ADVANTEST | R3182 | 150900201 | 2009.04.17 | 2010.04.16 |
| 2 | EMI Measuring Receiver | Schaffner | SCR3501 | 235 | 2009.03.09 | 2009.09.08 |
| 3 | Low Noise Pre Amplifier | Tsj | MLA-10K01-B01-27 | 1205323 | 2009.03.09 | 2009.09.08 |
| 4 | Low Noise Pre Amplifier | Tsj | MLA-0120-A02-34 | 2648A04738 | 2009.04.08 | 2010.04.07 |
| 5 | TRILOG Super Broadband test Antenna | SCHWARZBECK | VULB9160 | 9160-3206 | 2009.07.15 | 2010.07.14 |
| 6 | Broadband Horn Antenna | SCHWARZBECK | BBHA9120A | 451 | 2009.07.15 | 2010.07.14 |
| 7 | 50Ω Coaxial Switch | Anritsu | MP59B | 6200264416 | 2009.03.09 | 2009.09.08 |
| 8 | EMI Test Receiver | R&S | ESCI | 100124 | 2008.12.29 | 2009.12.28 |
| 9 | LISN | Kyoritsu | KNW-242 | 8-837-4 | 2009.04.08 | 2010.04.07 |
| 10 | LISN | Kyoritsu | KNW-407 | 8-1789-3 | 2009.04.08 | 2010.04.07 |
| 11 | 50Ω Coaxial Switch | Anritsu | MP59B | 6200264417 | 2009.03.10 | 2009.09.09 |



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6 Test Result

6.1 Antenna requirement

6.1.1 Standard requirement

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

6.1.2 EUT Antenna

The antenna is integrated on the main PCB and no consideration of replacement.



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6.2 Conduction Emissions Measurement

6.2.1 limit

| Frequency of Emission (MHz) | Conducted Limit (dBµV) | | |
|-----------------------------|------------------------|------------|--|
| | Quasi-peak | Average | |
| 0.15-0.5 | 66 to 56 * | 56 to 46 * | |
| 0.5-5 | 56 | 46 | |
| 5-30 | 60 | 50 | |

Note:Decreases with the logarithm of the frequency.

6.2.2 Test procedure

EUT was placed upon a wooden test table 0.8m above the horizontal metal reference plane and 0.4m from the vertical ground plane, and it was connected to an AMN. The closest distance between the boundary of the EUT and the surface of the AMN is 0.8m. All peripherals were connected to another AMN, and placed at a distance of 10cm from each other. A spectrum and receiver was connected to the RF output port of the AMN. Both average and quasi-peak value were detected.

6.2.3 Test result

Cause the EUT only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines.

Measurements to demonstrate compliance with the conducted limits are not required for devices



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6.3 Radiated Emissions Measurement

6.3.1 Limit

Fcc part15.249 (a) Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

| Frequency of Emission (MHz) | Field Strength of fundamental (dBµV/m) | Field Strength of Harmonics(dBµV/m) |
|-----------------------------|--|--|
| 902-928 | 94 | 54 |
| 2400-2483.5 | 94 | 54 |
| 5725-5875 | 94 | 54 |
| 24000-24250 | 108 | 68 |

Note: Field strength limits are specified at a distance of 3 meters. the above field strength limits in paragraphs of this section are based on average limits. However, 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.

Fcc part15.249 (d)Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

| Fraguency of Emission (MU=) | Field Strength | | Measurement Distance |
|-----------------------------|----------------|--------|----------------------|
| Frequency of Emission (MHz) | μV/m | dBµV/m | (meters) |
| 30-88 | 100 | 40 | 3 |
| 88-216 | 150 | 43.5 | 3 |
| 216-960 | 200 | 46 | 3 |
| Above 960 | 500 | 54 | 3 |

6.3.2 Test procedure

EUT was placed upon a wooden test table which was placed on the turn table 0.8m above the horizontal metal ground plane, and operating in the mode as mentioned above. A receiving antenna was placed 3m away from the EUT. During testing, turn around the turn table and move the antenna from 1m to 4m to find the maximum field-strength reading. All peripherals were placed at a distance of 10cm between each other. Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.



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6.3.3 Test Result

Test Data: 2009-8-24

Frenqucy Range: 30MHz to 1GHz

RBW/VBW: 100KHz/300KHz for spectrum, RBW=120KHz for receiver

Measurement Distance: 3 m

Operating Environment: 25.3°C, 58% RH, 102 Kpa

(a) Antenna polarization: Horizontal

| (- / | (a) / intermal polarization in terizonial | | | | | |
|-----------|---|---------|----------|---------|----------|---------------|
| Frequency | Correct | Reading | Measure | Margin | Limit | Detector Type |
| (MHz) | Factor | Level | Level | (dB) | (dBuV/m) | |
| | (dB) | (dBuV) | (dBuV/m) | | | |
| 55.220 | 13.960 | 0.215 | 14.175 | -25.825 | 40.000 | QUASIPEAK |
| 156.100 | 16.600 | 0.561 | 17.161 | -26.339 | 43.500 | QUASIPEAK |
| 194.900 | 13.830 | 1.972 | 15.802 | -27.698 | 43.500 | QUASIPEAK |
| 286.080 | 16.740 | 0.421 | 17.161 | -28.839 | 46.000 | QUASIPEAK |
| 371.440 | 19.050 | 0.286 | 19.336 | -26.664 | 46.000 | QUASIPEAK |
| *870.020 | 29.120 | 0.280 | 29.400 | -16.600 | 46.000 | QUASIPEAK |

(b) Antenna polarization: vertical

| (-) | o), interma peranadam vertical | | | | | |
|-----------|--------------------------------|---------|----------|---------|----------|---------------|
| Frequency | Correct | Reading | Measure | Margin | Limit | Detector Type |
| (MHz) | Factor | Level | Level | (dB) | (dBuV/m) | |
| | (dB) | (dBuV) | (dBuV/m) | | | |
| 137.670 | 15.730 | 2.550 | 18.280 | -25.220 | 43.500 | QUASIPEAK |
| 211.390 | 13.810 | 2.150 | 15.960 | -27.540 | 43.500 | QUASIPEAK |
| 243.400 | 15.280 | 2.095 | 17.375 | -28.625 | 46.000 | QUASIPEAK |
| 287.050 | 16.760 | 0.722 | 17.482 | -28.518 | 46.000 | QUASIPEAK |
| 366.590 | 18.900 | 0.456 | 19.356 | -26.644 | 46.000 | QUASIPEAK |
| *621.700 | 24.910 | 1.012 | 25.922 | -20.078 | 46.000 | QUASIPEAK |

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss



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Test Data: 2009-8-24

Frenquey Range: 1GHz to 25GHz

RBW/VBW:1MHz/1MHz for Peak, 1MHz/10Hz for Average

Measurement Distance: 3 m

Operating Environment: 25.3°C, 58% RH, 102 Kpa

(a) Antenna polarization: Horizontal

| Frequency | Correct | Reading | Measure | Margin | Limit | Detector Type |
|-----------|---------|---------|----------|---------|----------|---------------|
| (MHz) | Factor | Level | Level | (dB) | (dBuV/m) | |
| | (dB) | (dBuV) | (dBuV/m) | | | |
| 1695.000 | 30.475 | 11.871 | 42.346 | -31.654 | 74.000 | PEAK |
| 2200.000 | 32.850 | 13.650 | 46.500 | -27.500 | 74.000 | PEAK |
| 2400.000 | 33.897 | 11.301 | 45.198 | -28.802 | 74.000 | PEAK |
| 2405.000 | 33.913 | 59.290 | 93.203 | -20.797 | 114.000 | PEAK |
| *2405.000 | 33.913 | 57.893 | 91.806 | -2.194 | 94.000 | AVERAGE |
| 3170.000 | 36.111 | 10.909 | 47.020 | -6.980 | 54.000 | PEAK |
| 3975.000 | 37.698 | -1.881 | 35.817 | -18.183 | 54.000 | PEAK |
| 4804.000 | 40.010 | 6.579 | 46.589 | -27.411 | 74.000 | PEAK |

(b) Antenna polarization: vertical

| Frequency | Correct | Reading | Measure | Margin | Limit | Detector Type |
|-----------|---------|---------|----------|---------|----------|---------------|
| (MHz) | Factor | Level | Level | (dB) | (dBuV/m) | |
| | (dB) | (dBuV) | (dBuV/m) | | | |
| 1490.000 | 29.919 | 11.531 | 41.450 | -32.550 | 74.000 | PEAK |
| 1935.000 | 31.487 | 12.325 | 43.812 | -30.188 | 74.000 | PEAK |
| 2035.000 | 31.877 | 12.726 | 44.603 | -29.397 | 74.000 | PEAK |
| 2400.000 | 33.897 | 11.856 | 45.753 | -28.247 | 74.000 | PEAK |
| 2405.000 | 33.913 | 57.360 | 91.273 | -22.727 | 114.000 | PEAK |
| *2405.000 | 33.913 | 56.360 | 90.273 | -3.727 | 94.000 | AVERAGE |
| 4810.250 | 40.010 | 6.150 | 46.160 | -27.840 | 74.000 | PEAK |

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Low Channel:2405 MHz



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(a) Antenna polarization: Horizontal

| | • | | | | | 1 |
|-----------|---------|---------|----------|---------|----------|---------------|
| Frequency | Correct | Reading | Measure | Margin | Limit | Detector Type |
| (MHz) | Factor | Level | Level | (dB) | (dBuV/m) | |
| | (dB) | (dBuV) | (dBuV/m) | | | |
| 1930.000 | 31.468 | 12.222 | 43.690 | -30.310 | 74.000 | PEAK |
| 2285.000 | 33.299 | 12.971 | 46.271 | -27.729 | 74.000 | PEAK |
| 2439.000 | 33.997 | 58.439 | 92.436 | -21.564 | 114.000 | PEAK |
| *2439.860 | 33.997 | 56.487 | 92.436 | -3.516 | 94.000 | AVERAGE |
| 2935.000 | 35.725 | 10.956 | 46.681 | -27.319 | 74.000 | PEAK |
| 4870.760 | 40.125 | 6.646 | 46.771 | -27.229 | 74.000 | PEAK |

(b) Antenna polarization: vertical

| () | 2), therma polarization vertical | | | | | | |
|-----------|----------------------------------|---------|----------|---------|----------|---------------|--|
| Frequency | Correct | Reading | Measure | Margin | Limit | Detector Type | |
| (MHz) | Factor | Level | Level | (dB) | (dBuV/m) | | |
| | (dB) | (dBuV) | (dBuV/m) | | | | |
| 1715.000 | 30.591 | 11.341 | 41.933 | -32.067 | 74.000 | PEAK | |
| 2160.000 | 32.616 | 14.098 | 46.714 | -27.286 | 74.000 | PEAK | |
| 2439.000 | 33.997 | 56.970 | 90.967 | -23.033 | 114.000 | PEAK | |
| *2439.234 | 33.997 | 54.170 | 90.967 | -8.833 | 94.000 | AVERAGE | |
| 3180.000 | 36.126 | 10.420 | 46.546 | -27.454 | 74.000 | PEAK | |
| 4870.458 | 40.125 | 3.689 | 43.814 | -30.186 | 74.000 | PEAK | |

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Middle Channel :2439 MHz



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(a) Antenna polarization: Horizontal

| Frequency | Correct | Reading | Measure | Margin | Limit | Detector Type |
|-----------|---------|---------|----------|---------|----------|---------------|
| (MHz) | Factor | Level | Level | (dB) | (dBuV/m) | |
| | (dB) | (dBuV) | (dBuV/m) | | | |
| 1400.000 | 29.910 | 12.024 | 41.934 | -32.066 | 74.000 | PEAK |
| 2165.000 | 32.639 | 13.841 | 46.481 | -27.519 | 74.000 | PEAK |
| 2477.000 | 34.107 | 56.770 | 90.877 | -23.123 | 114.000 | PEAK |
| *2477.279 | 34.107 | 56.170 | 90.277 | -3.723 | 94.000 | AVERAGE |
| 2483.500 | 34.135 | 9.856 | 43.991 | -30.009 | 74.000 | PEAK |
| 2810.000 | 35.508 | 11.299 | 46.807 | -27.193 | 74.000 | PEAK |
| 3195.000 | 36.153 | 10.314 | 46.466 | -27.534 | 74.000 | PEAK |
| 4950.000 | 40.263 | 6.075 | 46.338 | -27.662 | 74.000 | PEAK |

(b) Antenna polarization: vertical

| (-) | (b) / Interna peranzation vertical | | | | | | |
|-----------|------------------------------------|---------|----------|---------|----------|---------------|--|
| Frequency | Correct | Reading | Measure | Margin | Limit | Detector Type | |
| (MHz) | Factor | Level | Level | (dB) | (dBuV/m) | | |
| | (dB) | (dBuV) | (dBuV/m) | | | | |
| 1245.000 | 29.423 | 11.787 | 41.211 | -32.789 | 74.000 | PEAK | |
| 2305.000 | 33.391 | 12.742 | 46.133 | -27.867 | 74.000 | PEAK | |
| 2477.000 | 34.107 | 55.409 | 89.516 | -24.484 | 114.000 | PEAK | |
| *2477.128 | 34.107 | 54.809 | 88.916 | -5.084 | 94.000 | AVERAGE | |
| 2483.500 | 34.135 | 9.609 | 43.744 | -30.256 | 74.000 | PEAK | |
| 3070.000 | 35.949 | 11.269 | 47.218 | -26.782 | 74.000 | PEAK | |
| 4950.000 | 40.263 | 4.311 | 44.574 | -29.426 | 74.000 | PEAK | |

Note: '*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

High Channel :2476 MHz



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6.4 Band edges

6.4.1 Limit

Fcc part15.249 (d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

6.4.2 Test procedure

- (1) Connected the antenna port to the Spectrum Analyzer, set the Spectrum Analyzer as RBW=100Hz,VBW≧RBW, Sweep time=Auto, Detector Function=Peak
- (2) The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission.
- (3) The above procedure shall be repeated at the lowest, and the highest frequency of the stated frequency range.

6.4.3 Test Result

Please refer to report section 6.2.3 which met the requirement of limits in 15.209



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6.5 Occupied Bandwidth

6.5.1 Limit

Fcc part15.239 (d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

6.5.2 Test procedure

- (1) Connected the antenna port to the Spectrum Analyzer, set the Spectrum Analyzer as RBW=10Hz,VBW≧RBW, Sweep time=Auto, Detector Function=Peak
- (2) The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission.
- (3) The above procedure shall be repeated at the lowest, and the highest frequency of the stated frequency range with modulated mode.

6.5.3 Test Result

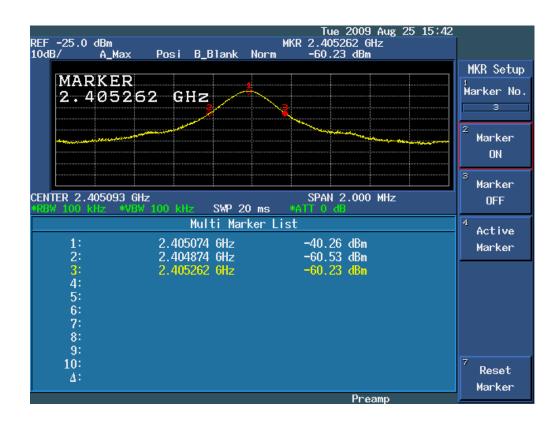
| channel | Channel frenqucy (MHz) | 20dB bandwidth (KHz) | Limit (KHz) | Conclusion |
|---------|---------------------------|-------------------------|----------------|------------|
| Low | 2405 | 388 | N/A | Pass |
| Mid | 2439 | 394 | N/A | Pass |
| High | 2476 | 382 | N/A | Pass |



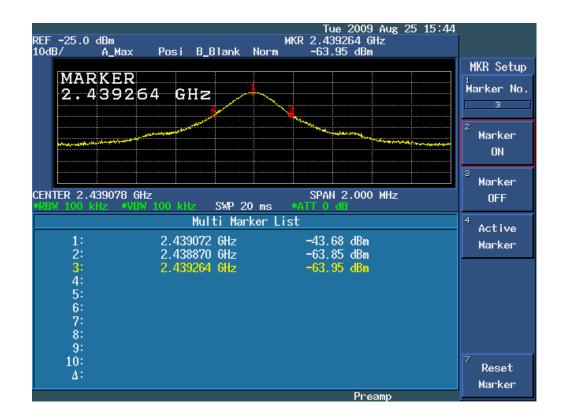
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FCCID: HQKKMEKA7A81

(1) Low: 2405MHz



(2) Mid: 2439MHz



FCCID: HQKKMEKA7A81

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(3) High: 2476MHz

