



Test Report

| | |
|--------------|---------------------|
| Product Name | Traveler T925 Laser |
| Model No. | GM-070013/T |
| FCC ID | FSUGMZIB |

| | |
|-----------|--|
| Applicant | KYE SYSTEMS CORP. (Genius) |
| Address | No. 492, Sec. 5, Chung Hsin Rd., San Chung, Taipei Hsien, 24160, Taiwan, R. O. C. |

| | |
|-----------------|--------------------|
| Date of Receipt | Jan. 31 , 2008 |
| Issued Date | Mar. 17, 2008 |
| Report No. | 082058R-RFUSP07V01 |
| Version | V1.0 |

The test results relate only to the samples tested.

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This report must not be used to claim product endorsement by NVLAP any agency of the U.S. Government

Test Report Certification

Issued Date: Mar. 17, 2008

Report No.: 082058R-RFUSP07V01



| | |
|---------------------|---|
| Product Name | Traveler T925 Laser |
| Applicant | KYE SYSTEMS CORP. (Genius) |
| Address | No. 492, Sec. 5, Chung Hsin Rd., San Chung, Taipei Hsien, 24160, Taiwan, R. O. C. |
| Manufacturer | KYE SYSTEMS CORP. (Genius) |
| Model No. | GM-070013/T |
| Rated Voltage | DC 3V(Power by battery) |
| Working Voltage | DC 3V(Power by battery) |
| Trade Name | Genius |
| Applicable Standard | FCC CFR Title 47 Part 15 Subpart C: 2007 ANSI C63.4: 2003 |
| Test Result | Complied |



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Documented By :

Leven Huang

(Adm. Specialist / Leven Huang)



Tested By :

Molin Huang

(Engineer / Molin Huang)

Approved By :

Vincent Lin

(Deputy Manager / Vincent Lin)



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1. GENERAL INFORMATION

1.1. EUT Description

| | |
|--------------------|---------------------|
| Product Name | Traveler T925 Laser |
| Trade Name | Genius |
| Model No. | GM-070013/T |
| FCC ID | FSUGMZIB |
| Frequency Range | 2402~2480MHz |
| Channel Control | Auto |
| Channel Separation | 1MHz |
| Antenna Gain | -3dBi |
| Channel Number | 79 |
| Type of Modulation | GFSK |
| Antenna Type | Printed on PCB |

Frequency of Each Channel

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
| Channel 01: | 2402 MHz | Channel 21: | 2422 MHz | Channel 41: | 2442 MHz | Channel 61: | 2462 MHz |
| Channel 02: | 2403 MHz | Channel 22: | 2423 MHz | Channel 42: | 2443 MHz | Channel 62: | 2463 MHz |
| Channel 03: | 2404 MHz | Channel 23: | 2424 MHz | Channel 43: | 2444 MHz | Channel 63: | 2464 MHz |
| Channel 04: | 2405 MHz | Channel 24: | 2425 MHz | Channel 44: | 2445 MHz | Channel 64: | 2465 MHz |
| Channel 05: | 2406 MHz | Channel 25: | 2426 MHz | Channel 45: | 2446 MHz | Channel 65: | 2466 MHz |
| Channel 06: | 2407 MHz | Channel 26: | 2427 MHz | Channel 46: | 2447 MHz | Channel 66: | 2467 MHz |
| Channel 07: | 2408 MHz | Channel 27: | 2428 MHz | Channel 47: | 2448 MHz | Channel 67: | 2468 MHz |
| Channel 08: | 2409 MHz | Channel 28: | 2429 MHz | Channel 48: | 2449 MHz | Channel 68: | 2469 MHz |
| Channel 09: | 2410 MHz | Channel 29: | 2430 MHz | Channel 49: | 2450 MHz | Channel 69: | 2470 MHz |
| Channel 10: | 2411 MHz | Channel 30: | 2431 MHz | Channel 50: | 2451 MHz | Channel 70: | 2471 MHz |
| Channel 11: | 2412 MHz | Channel 31: | 2432 MHz | Channel 51: | 2452 MHz | Channel 71: | 2472 MHz |
| Channel 12: | 2413 MHz | Channel 32: | 2433 MHz | Channel 52: | 2453 MHz | Channel 72: | 2473 MHz |
| Channel 13: | 2414 MHz | Channel 33: | 2434 MHz | Channel 53: | 2454 MHz | Channel 73: | 2474 MHz |
| Channel 14: | 2415 MHz | Channel 34: | 2435 MHz | Channel 54: | 2455 MHz | Channel 74: | 2475 MHz |
| Channel 15: | 2416 MHz | Channel 35: | 2436 MHz | Channel 55: | 2456 MHz | Channel 75: | 2476 MHz |
| Channel 16: | 2417 MHz | Channel 36: | 2437 MHz | Channel 56: | 2457 MHz | Channel 76: | 2477 MHz |
| Channel 17: | 2418 MHz | Channel 37: | 2438 MHz | Channel 57: | 2458 MHz | Channel 77: | 2478 MHz |
| Channel 18: | 2419 MHz | Channel 38: | 2439 MHz | Channel 58: | 2459 MHz | Channel 78: | 2479 MHz |
| Channel 19: | 2420 MHz | Channel 39: | 2440 MHz | Channel 59: | 2460 MHz | Channel 79: | 2480 MHz |
| Channel 20: | 2421 MHz | Channel 40: | 2441 MHz | Channel 60: | 2461 MHz | | |

Note:

1. The EUT is a Traveler T925 Laser with a built-in 2.4GHz transceiver.
2. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
3. Lowest and highest data rates are tested in each mode. Only worst case is shown in the report.
4. These tests are conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.249 for spread spectrum devices.
5. Part 15 Subpart B compliance for spread spectrum devices is shown on the report no. 082058R-RFUSP01V02.
6. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

1.2. Operational Description

The EUT is 2.4GHz Wireless Mouse built-in 2.4GHz transceiver. The operation frequency is from 2402 MHz to 2480MHz with GFSK modulation. The signal will be transmitted through 2.4 GHz RF signal from the Printed on PCB antenna. DC 3V shall be provided for EUT operation.

| | |
|-----------|---------------------|
| Test Mode | Mode 1: Transmitter |
|-----------|---------------------|

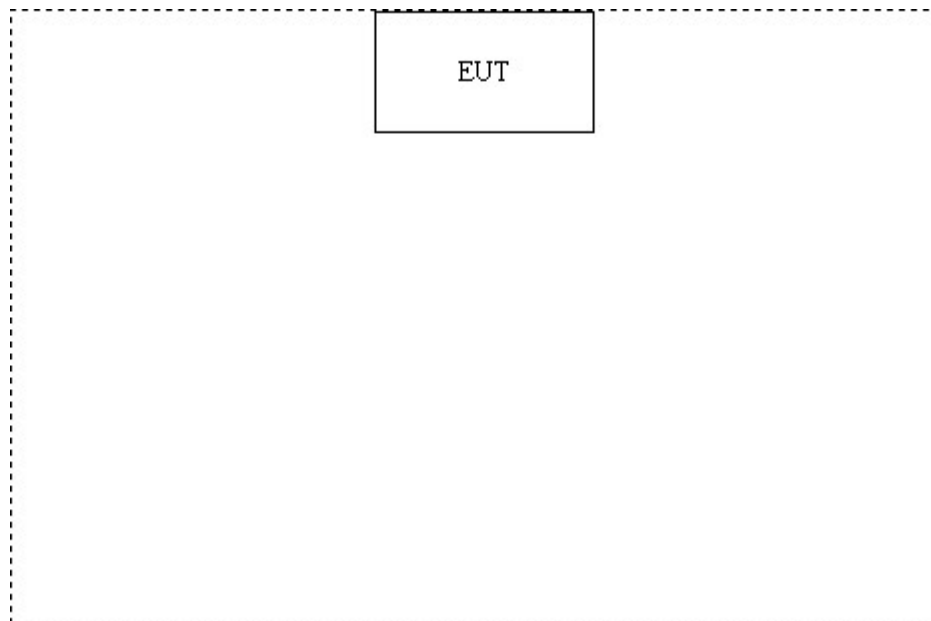
1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

| Product | Manufacturer | Model No. | Serial No. | Power Cord |
|---------|--------------|-----------|------------|------------|
| 1 | N/A | N/A | N/A | N/A |

| Signal Cable Type | Signal cable Description |
|-------------------|--------------------------|
| A | N/A |

1.4. Configuration of Test System



1.5. EUT Exercise Software

| | |
|---|--|
| 1 | Setup the EUT as shown on 1.4. |
| 2 | Turn on the power for EUT. |
| 3 | The EUT to enter RF test mode. |
| 4 | The EUT will continuously receiver the radio signal. |
| 5 | Repeat the above procedure (3) to (4) |

1.6. Test Facility

Ambient conditions in the laboratory:

| Items | Required (IEC 68-1) | Actual |
|----------------------------|---------------------|----------|
| Temperature (°C) | 15-35 | 20-35 |
| Humidity (%RH) | 25-75 | 50-65 |
| Barometric pressure (mbar) | 860-1060 | 950-1000 |

Site Description: File on
Federal Communications Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
Columbia, MD 21046
Registration Number: 92195



Accreditation on NVLAP
NVLAP Lab Code: 200533-0



Site Name: Quietek Corporation

Site Address: No. 5-22, Ruei-Shu Valley, Ruei-Ping Tsuen,
Lin-Kou Shiang, Taipei,
Taiwan, R.O.C.
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E-Mail : service@quietek.com

FCC Accreditation Number: TW1014



2. Radiated Emission

2.1. Test Equipment

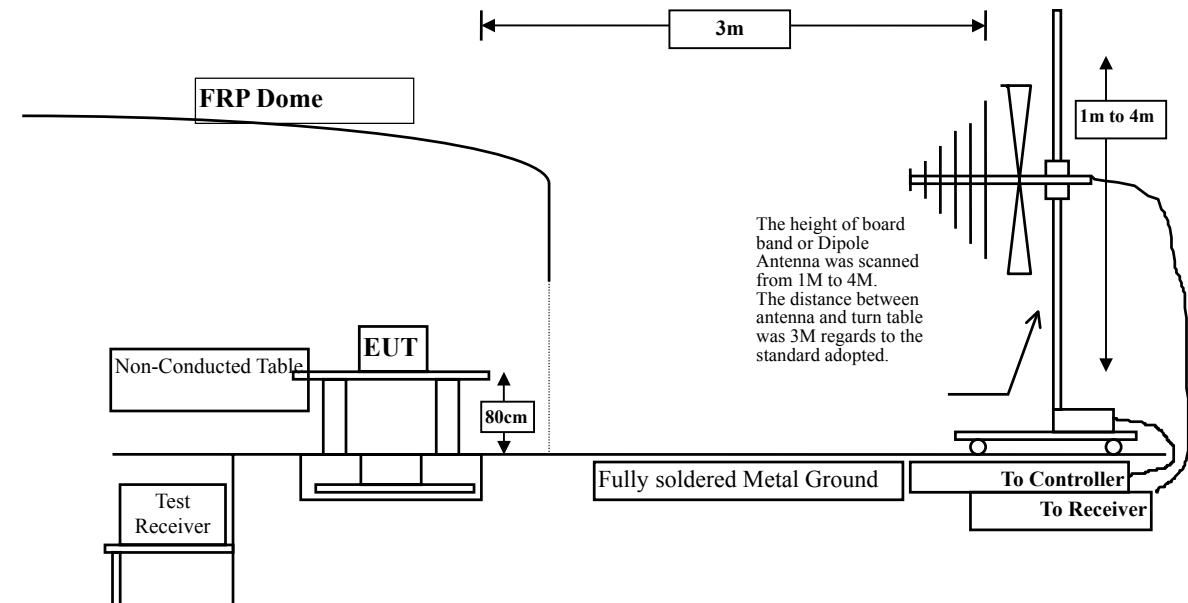
The following test equipment are used during the radiated emission test:

| Test Site | | Equipment | Manufacturer | Model No./Serial No. | Last Cal. |
|--|---|-------------------|--------------|------------------------|------------|
| <input type="checkbox"/> Site # 1 | | Test Receiver | R & S | ESVS 10 / 834468/003 | May, 2007 |
| | | Spectrum Analyzer | Advantest | R3162/ 00803480 | May, 2007 |
| | | Pre-Amplifier | Advantest | BB525C/ 3307A01812 | May, 2007 |
| | | Bilog Antenna | SCHAFFNER | CBL6112B / 2697 | Sep., 2007 |
| <input type="checkbox"/> Site # 2 | | Test Receiver | R & S | ESCS 30 / 836858 / 022 | May, 2007 |
| | | Spectrum Analyzer | Advantest | R3162 / 100803466 | May, 2007 |
| | | Pre-Amplifier | Advantest | BB525C/3307A01814 | May, 2007 |
| | | Bilog Antenna | SCHAFFNER | CBL6112B / 2705 | May, 2007 |
| | | Horn Antenna | ETS | 3115 / 0005-6160 | Sep., 2007 |
| | | Pre-Amplifier | QTK | QTK-AMP-01/ 0001 | May, 2007 |
| <input checked="" type="checkbox"/> Site # 3 | X | Test Receiver | R & S | ESI 26 / 838786/004 | May, 2007 |
| | X | Spectrum Analyzer | Agilent | E4407B / US39440758 | May, 2007 |
| | X | Bilog Antenna | SCHAFFNER | CBL6112B / 2697 | May, 2007 |
| | X | Horn Antenna | Schwarzbeck | BBHA9120D / 305, 306 | July, 2007 |
| | X | Horn Antenna | Schwarzbeck | BBHA9170 / 208, 209 | July, 2007 |
| | X | Pre-Amplifier | QTK | QTK-AMP-01 / 0001 | July, 2007 |
| | X | Pre-Amplifier | QTK | QTK-AMP-03 / 0003 | May, 2007 |
| | X | Pre-Amplifier | HP | 8449B / 3008A01123 | July, 2007 |

Note: 1. All equipments are calibrated every one year.

2. Test equipments marked by "X" are used to measure the final test results.

2.2. Test Setup



2.3. Limits

➤ General Radiated Emission Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

| FCC Part 15 Subpart C Paragraph 15.209(a) Limits | | |
|--|----------|-----------|
| Frequency MHz | uV/m @3m | dBuV/m@3m |
| 30-88 | 100 | 40 |
| 88-216 | 150 | 43.5 |
| 216-960 | 200 | 46 |
| Above 960 | 500 | 54 |

- Remarks :
1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
 2. In the Above Table, the tighter limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

2.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated measurement.

The additional latch filter below 1GHz was used to measure the level of harmonics radiated emission during field strength of harmonics measurement.

The bandwidth below 1GHz setting on the field strength meter is 120 kHz, above 1GHz are 1 MHz. The frequency range from 30MHz to 10th harmonics is checked.

2.5. Uncertainty

± 3.9 dB above 1GHz

± 3.8 dB below 1GHz

2.6. Test Result of Radiated Emission

Product : Traveler T925 Laser
 Test Item : Fundamental Radiated Emission
 Test Site : No.3OATS
 Test Mode : Mode 1: Transmitter (2402MHz)

| Frequency MHz | Correct Factor dB | Reading Level dBuV | Measurement Level dBuV/m | Margin dB | Limit dBuV/m |
|-------------------------|-------------------------|--------------------------|--------------------------------|--------------|-----------------|
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| Channel 01 | | | | | |
| 2402.000 | -6.693 | 88.800 | 82.107 | -31.893 | 114.000 |
| Average Detector | | | | | |
| -- | | | | | |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| Channel 01 | | | | | |
| 2402.000 | -6.693 | 84.710 | 78.017 | -35.983 | 114.000 |
| Average Detector | | | | | |
| -- | | | | | |

Note:

1. Measurement Level = Reading Level + Correct Factor.
2. Correct Factor = Antenna Factor + Cable Loss – PreAMP.

Product : Traveler T925 Laser
 Test Item : Fundamental Radiated Emission
 Test Site : No.3OATS
 Test Mode : Mode 1: Transmitter (2441MHz)

| Frequency MHz | Correct Factor dB | Reading Level dBuV | Measurement Level dBuV/m | Margin dB | Limit dBuV/m |
|-------------------------|-------------------------|--------------------------|--------------------------------|--------------|-----------------|
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| Channel 40 | | | | | |
| 2441.000 | -6.538 | 87.370 | 80.832 | -33.168 | 114.000 |
| Average Detector | | | | | |
| -- | | | | | |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| Channel 40 | | | | | |
| 2441.000 | -6.538 | 84.600 | 78.062 | -35.938 | 114.000 |
| Average Detector | | | | | |
| -- | | | | | |

Note:

1. Measurement Level = Reading Level + Correct Factor.
2. Correct Factor = Antenna Factor + Cable Loss – PreAMP.

Product : Traveler T925 Laser
 Test Item : Fundamental Radiated Emission
 Test Site : No.3OATS
 Test Mode : Mode 1: Transmitter (2480MHz)

| Frequency MHz | Correct Factor dB | Reading Level dBuV | Measurement Level dBuV/m | Margin dB | Limit dBuV/m |
|-------------------------|-------------------------|--------------------------|--------------------------------|--------------|-----------------|
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| Channel 79 | | | | | |
| 2480.000 | -6.427 | 85.840 | 79.413 | -34.587 | 114.000 |
| Average Detector | | | | | |
| -- | | | | | |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| Channel 79 | | | | | |
| 2480.000 | -6.427 | 83.310 | 76.883 | -37.117 | 114.000 |
| Average Detector | | | | | |
| -- | | | | | |

Note:

1. Measurement Level = Reading Level + Correct Factor.
2. Correct Factor = Antenna Factor + Cable Loss – PreAMP.

Product : Traveler T925 Laser
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter (2402MHz)

| Frequency | Correct | Reading | Measurement | Margin | Limit |
|-----------------------|---------|---------|-------------|---------|--------|
| MHz | Factor | Level | Level | | |
| | dB | dBuV | dBuV/m | dB | dBuV/m |
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 4804.000 | 0.643 | 62.210 | 62.853 | -11.117 | 74.000 |
| 7206.000 | 5.014 | 51.220 | 56.234 | -17.736 | 74.000 |
| 9608.000 | 8.255 | 41.220 | 49.474 | -24.496 | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| 4804.000 | 0.643 | 32.620 | 33.263 | -20.707 | 54.000 |
| 7206.000 | 5.014 | 23.950 | 28.964 | -25.006 | 54.000 |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 4804.000 | 0.643 | 60.170 | 60.813 | -13.157 | 74.000 |
| 7206.000 | 5.014 | 55.220 | 60.234 | -13.736 | 74.000 |
| 9608.000 | 8.255 | 40.310 | 48.564 | -25.406 | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| 4804.000 | 0.643 | 40.580 | 41.223 | -12.747 | 54.000 |
| 7206.000 | 5.014 | 34.580 | 39.594 | -14.376 | 54.000 |

Note:

1. The reading levels below 1GHz and above 1GHz are quasi-peak values and peak/average values, respectively.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz °
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:3KHz; Span:20MHz °
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Traveler T925 Laser
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter (2441 MHz)

| Frequency | Correct | Reading | Measurement | Margin | Limit |
|-----------------------|---------|---------|-------------|---------|--------|
| MHz | Factor | Level | Level | dB | dBuV/m |
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 4882.000 | 0.623 | 62.330 | 62.953 | -11.017 | 74.000 |
| 7323.000 | 5.086 | 55.250 | 60.336 | -13.634 | 74.000 |
| 9764.000 | 8.696 | 37.225 | 45.921 | -28.049 | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| 4882.000 | 0.623 | 40.770 | 41.393 | -12.577 | 54.000 |
| 7323.000 | 5.086 | 30.570 | 35.656 | -18.314 | 54.000 |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 4882.000 | 0.623 | 58.920 | 59.543 | -14.427 | 74.000 |
| 7323.000 | 5.086 | 49.540 | 54.626 | -19.344 | 74.000 |
| 9764.000 | 8.696 | 40.790 | 49.486 | -4.484 | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| 4882.000 | 0.623 | 39.120 | 39.743 | -14.227 | 54.000 |
| 7323.000 | 5.086 | 31.090 | 36.176 | -17.794 | 54.000 |

Note:

1. The reading levels below 1GHz and above 1GHz are quasi-peak values and peak/average values, respectively.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz °
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:3KHz; Span:20MHz °
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Traveler T925 Laser
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter (2480 MHz)

| Frequency | Correct | Reading | Measurement | Margin | Limit |
|-----------------------|---------|---------|-------------|---------|--------|
| | Factor | Level | Level | | |
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m |
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 4960.000 | 1.553 | 59.610 | 61.163 | -12.807 | 74.000 |
| 7440.000 | 5.714 | 48.940 | 54.654 | -19.316 | 74.000 |
| 9920.000 | 8.878 | 38.600 | 47.478 | -26.492 | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| 4960.000 | 1.553 | 40.670 | 42.223 | -11.747 | 54.000 |
| 7440.000 | 5.714 | 32.650 | 38.364 | -15.606 | 54.000 |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 4960.000 | 1.553 | 58.960 | 60.513 | -13.457 | 74.000 |
| 7440.000 | 5.714 | 49.060 | 54.774 | -19.196 | 74.000 |
| 9920.000 | 8.878 | 41.470 | 50.348 | -23.622 | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| 4960.000 | 1.553 | 35.212 | 36.765 | -17.205 | 54.000 |
| 7440.000 | 5.714 | 28.650 | 34.364 | -19.606 | 54.000 |

Note:

1. The reading levels below 1GHz and above 1GHz are quasi-peak values and peak/average values, respectively.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz °
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:3KHz; Span:20MHz °
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Traveler T925 Laser
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter (2441 MHz)

| Frequency | Correct | Reading | Measurement | Margin | Limit |
|-------------------|---------|---------|-------------|---------|--------|
| MHz | Factor | Level | Level | | |
| | dB | dBuV | dBuV/m | dB | dBuV/m |
| Horizontal | | | | | |
| 256.980 | 14.097 | 4.321 | 18.418 | -27.582 | 46.000 |
| 400.540 | 16.687 | 6.803 | 23.490 | -22.510 | 46.000 |
| 460.680 | 18.626 | 8.754 | 27.380 | -18.620 | 46.000 |
| 658.560 | 20.823 | -0.452 | 20.371 | -25.629 | 46.000 |
| 827.340 | 21.877 | 3.460 | 25.337 | -20.663 | 46.000 |
| 951.500 | 22.762 | 0.212 | 22.974 | -23.026 | 46.000 |
| Vertical | | | | | |
| 375.320 | 16.615 | 5.630 | 22.245 | -23.755 | 46.000 |
| 528.580 | 18.993 | 4.635 | 23.628 | -22.372 | 46.000 |
| 604.240 | 21.805 | 1.102 | 22.907 | -23.093 | 46.000 |
| 685.720 | 20.300 | 2.897 | 23.197 | -22.803 | 46.000 |
| 827.340 | 21.423 | 1.791 | 23.214 | -22.786 | 46.000 |
| 968.960 | 22.949 | 0.599 | 23.548 | -30.452 | 54.000 |

Note:

1. The reading levels below 1GHz are quasi-peak values.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The radiated emissions below 1GHz of the lowest, middle, highest frequency are pretested. Only the worst case is shown on the report.

3. Band Edge

3.1. Test Equipment

The following test equipments are used during the band edge tests:

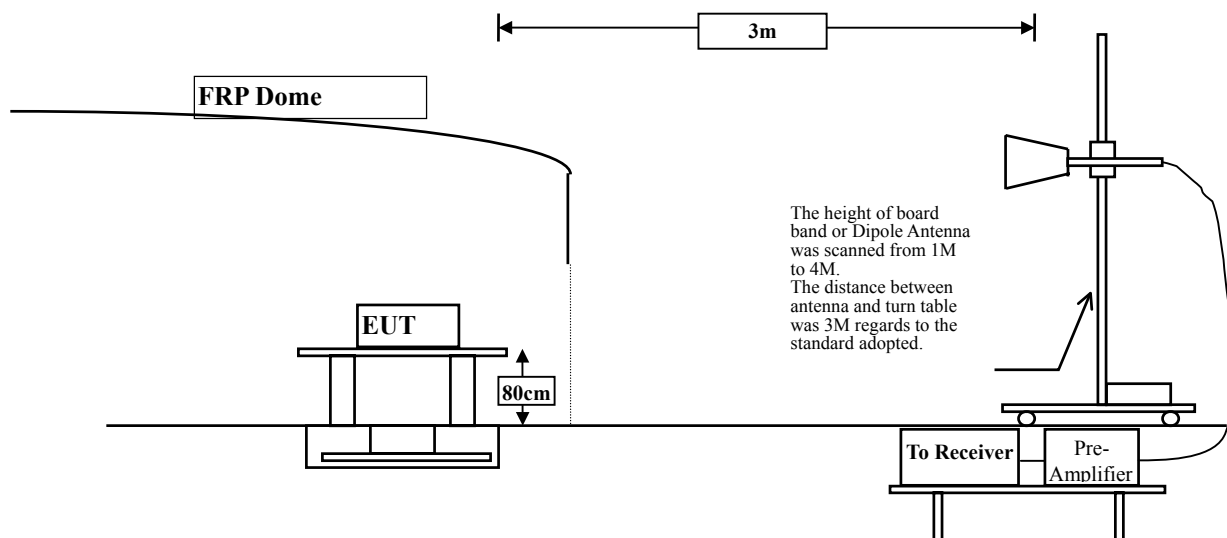
| Equipment | Manufacturer | Model No./Serial No. | Last Cal. |
|---------------------|--------------|----------------------|------------|
| X Test Receiver | R & S | ESI 26 / 838786/004 | May, 2007 |
| X Spectrum Analyzer | Agilent | E4407B / US39440758 | May, 2007 |
| X Bilog Antenna | SCHAFFNER | CBL6112B / 2697 | May, 2007 |
| X Horn Antenna | Schwarzbeck | BBHA9120D / 305, 306 | July, 2007 |
| X Horn Antenna | Schwarzbeck | BBHA9170 / 208, 209 | July, 2007 |
| X Pre-Amplifier | QTK | QTK-AMP-01 / 0001 | July, 2007 |
| X Pre-Amplifier | QTK | QTK-AMP-03 / 0003 | May, 2007 |
| X Pre-Amplifier | HP | 8449B / 3008A01123 | July, 2007 |

Test Site: Site3

- Note:
1. All equipments are calibrated every one year.
 2. The test equipments marked by "X" are used to measure the final test results.

3.2. Test Setup

RF Radiated Measurement:



3.3. Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

3.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated measurement.

The bandwidth setting below 1GHz and above 1GHz on the field strength meter is 120 kHz and 1MHz, respectively.

3.5. Uncertainty

Conducted is ± 1.27 dB

Radiated is ± 3.9 dB

3.6. Test Result of Band Edge

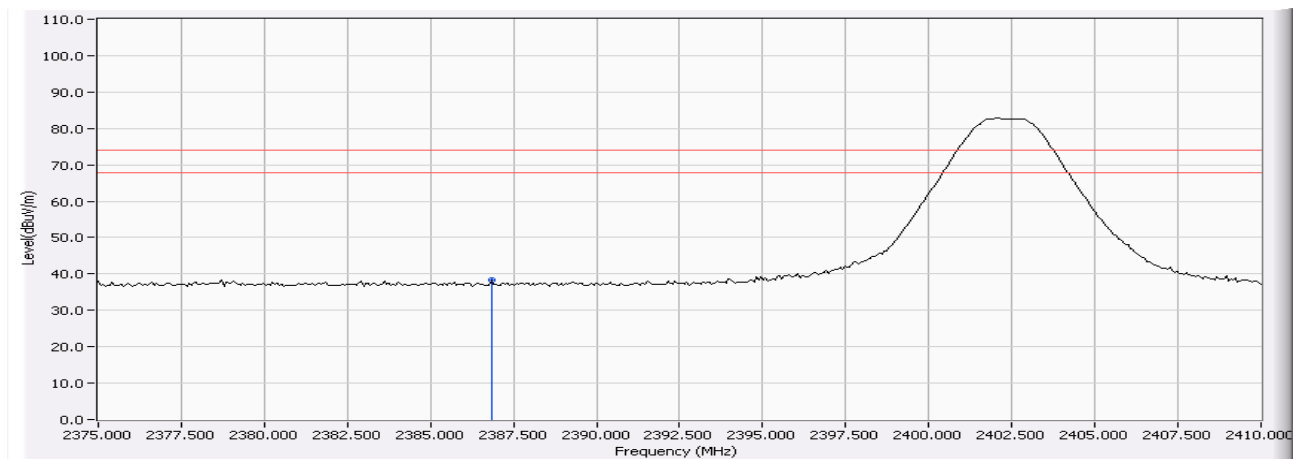
Product : Traveler T925 Laser
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter

RF Radiated Measurement (Horizontal):

| Channel No. | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Emission Level (dBuV/m) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Result |
|-------------|-----------------|---------------------|----------------------|-------------------------|---------------------|------------------------|--------|
| 01 (Peak) | 2386.830 | -6.754 | 45.186 | 38.432 | 74.00 | 54.00 | Pass |
| 01(Average) | -- | -- | -- | -- | 74.00 | 54.00 | Pass |

Figure Channel 01:

Horizontal (Peak)



Note: RBW=1MHz, VBW=1MHz, Sweep=500ms

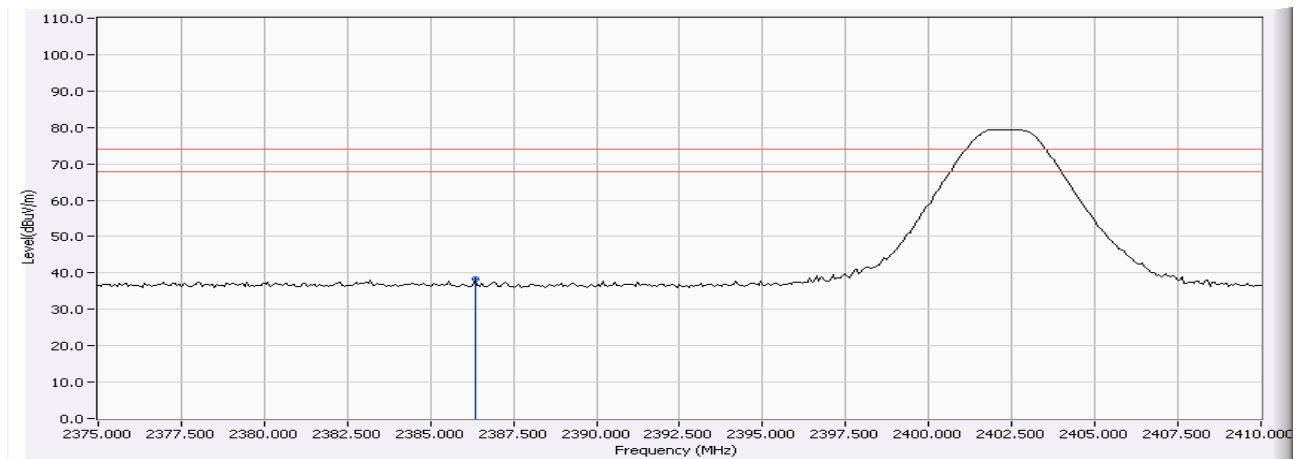
Product : Traveler T925 Laser
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter

RF Radiated Measurement (Vertical):

| Channel No. | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Emission Level (dBuV/m) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Result |
|-------------|-----------------|---------------------|----------------------|-------------------------|---------------------|------------------------|--------|
| 01 (Peak) | 2386.340 | -6.756 | 44.955 | 38.199 | 74.00 | 54.00 | Pass |
| 01(Average) | -- | -- | -- | -- | 74.00 | 54.00 | Pass |

Figure Channel 01:

Vertical (Peak)



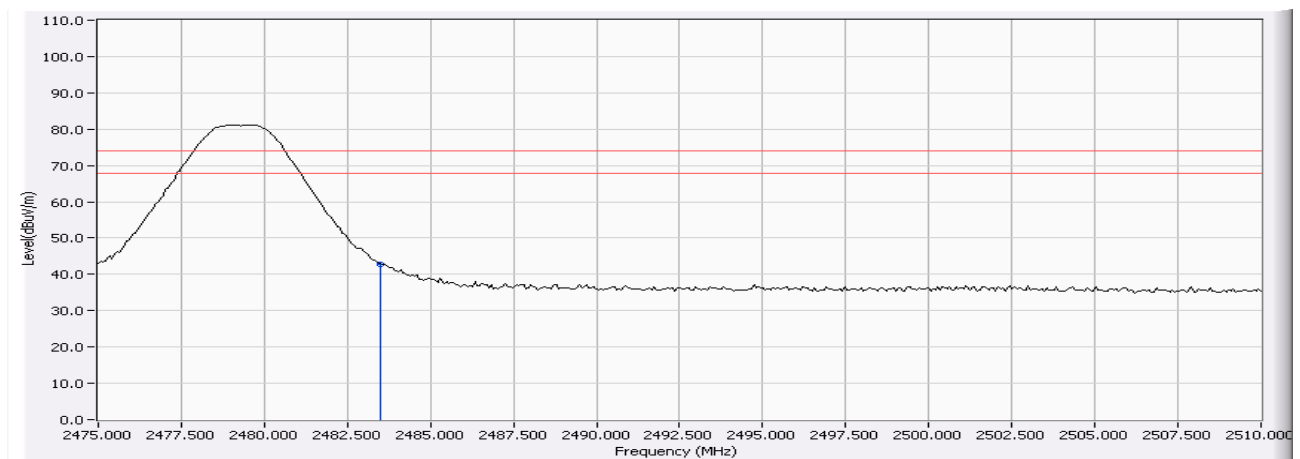
Note: RBW=1MHz, VBW=1MHz, Sweep=500ms

Product : Traveler T925 Laser
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter

RF Radiated Measurement (Horizontal):

| Channel No. | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Emission Level (dBuV/m) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Result |
|-------------|-----------------|---------------------|----------------------|-------------------------|---------------------|------------------------|--------|
| 79(Peak) | 2483.500 | -6.419 | 49.303 | 42.884 | 74.00 | 54.00 | Pass |
| 79(Average) | -- | -- | -- | -- | 74.00 | 54.00 | Pass |

Figure Channel 79: Horizontal (Peak)



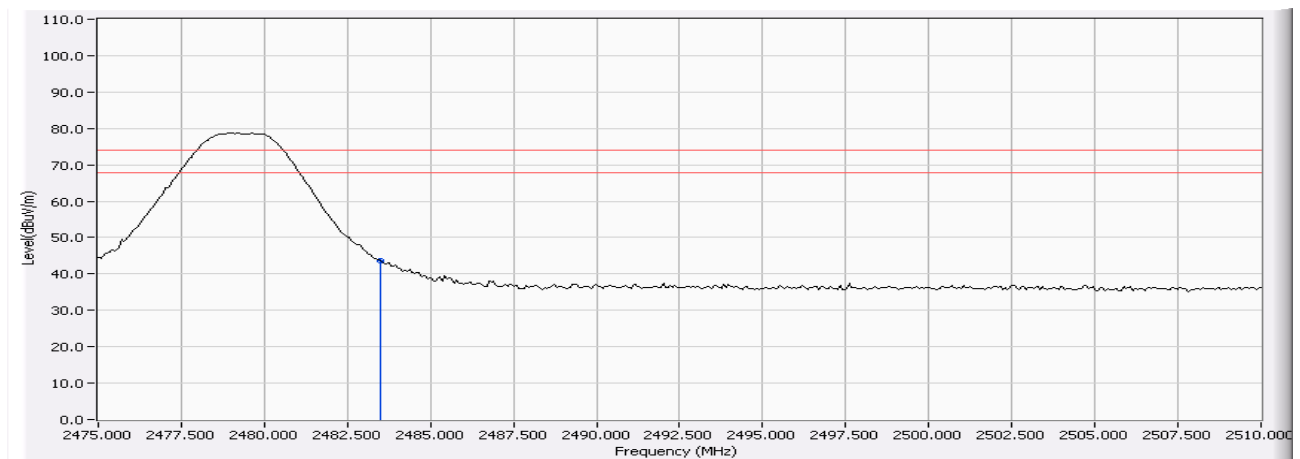
Note: RBW=1MHz, VBW=1MHz, Sweep=500ms

Product : Traveler T925 Laser
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter

RF Radiated Measurement (Vertical):

| Channel No. | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Emission Level (dBuV/m) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Result |
|-------------|-----------------|---------------------|----------------------|-------------------------|---------------------|------------------------|--------|
| 79(Peak) | 2483.500 | -6.419 | 50.088 | 43.669 | 74.00 | 54.00 | Pass |
| 79(Average) | -- | -- | -- | -- | 74.00 | 54.00 | Pass |

Figure Channel 79: Vertical (Peak)



Note: RBW=1MHz, VBW=1MHz, Sweep=500ms

4. EMI Reduction Method During Compliance Testing

No modification was made during testing.