

# **FCC Test Report**

FCC Part 15.247 for FHSS systems/ CANADA RSS-210

## For

**Psion Teklogix Inc.** 

**Handheld Computer** 

Model Number: 7505-BTSDCMHC25

FCC ID: GM37505BTSDCMHC25 IC ID: 2739D-7505BSHC

TEST REPORT #: EMC\_PSION\_001\_07502\_15.247BT\_GM37505BTSDCMHC25 DATE: 2007-12-3







FCC listed# A2LA Accredited

IC recognized # 3462B

#### CETECOM Inc.

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Board of Directors: Dr. Harald Ansorge, Dr. Klaus Matkey, Hans Peter May

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## 1 Assessment

The following is in compliance with the applicable criteria specified in FCC rules Part 15.247 of the Code of Federal Regulations and in compliance with the applicable criteria specified in Industry Canada rules RSS210.

| Company            | Description       | Model #         |
|--------------------|-------------------|-----------------|
| Psion Teklogix Inc | Handheld Computer | 7505-BTSDCMHC25 |

Technical responsibility for area of testing:

## **Lothar Schmidt**

(Director Regulatory and

| 2007-12-3 | EMC & Radio | Antenna Services |           |
|-----------|-------------|------------------|-----------|
| Date      | Section     | Name             | Signature |

This report is prepared by:

Peter Mu

|   | 2007-12-3 | EMC & Radio | (EMC Project Engineer) |           |
|---|-----------|-------------|------------------------|-----------|
| _ | Date      | Section     | Name                   | Signature |

The test results of this test report relate exclusively to the test item specified in Identification of the Equipment under Test. The CETECOM Inc. USA does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the CETECOM Inc USA.

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# 2 Administrative Data

# 2.1 Identification of the Testing Laboratory Issuing the EMC Test Report

| Company Name:                    | CETECOM Inc.   |
|----------------------------------|--|
| Department:                      | EMC  |
| Address:                         | 411 Dixon Landing Road<br>Milpitas, CA 95035<br>U.S.A. |
| Telephone:                       | +1 (408) 586 6200                                      |
| Fax:                             | +1 (408) 586 6299                                      |
| Responsible Test Lab<br>Manager: | Lothar Schmidt   |
| Responsible Project<br>Leader:   | Peter Mu   |
| Date of test:                    | 2007-11-13 to 2007-11-21                               |

## 2.2 Identification of the Client

| APPLICANT                   |                                   |  |  |
|-----------------------------|-----------------------------------|--|--|
| Applicant (Company<br>Name) | Psion Teklogix Inc                |  |  |
| Street Address              | 2100 Meadowvale Boulevard         |  |  |
| City/Zip Code               | Mississauga, Ontario, L5N 7J9     |  |  |
| Country                     | USA                               |  |  |
| <b>Contact Person</b>       | Sada Dharwarkar                   |  |  |
| Telephone                   | 905-812-6200 ex 3358              |  |  |
| Fax                         | 905-812-6301                      |  |  |
| e-mail                      | Sada.dharwarkar@psionteklogix.com |  |  |

## 2.3 Identification of the Manufacturer

Same as above applicant

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# 3 Equipment under Test (EUT)

# 3.1 Specification of the Equipment under Test

| Marketing Name:                             | Handheld Computer                                    |
|---|--|
| Description:                                | Handheld Computer                                    |
| Model No:                                   | 7505-BTSDCMHC25                                      |
| Antenna Type:                               | 1.1dBi MAX PIFA                                      |
| Type(s) of Modulation:                      | GFSK   |
| Frequency Band(s) of Operation:             | 2400~2483.5MHz                                       |
| Numbers of Channels:                        | 79   |
| Equipment Classification: (CLASS)           | □FIXED □VEHICULAR ■PORTABLE □MODULE                  |
| Equipment Classification: (POWER(AC MAINS)) | □230VAC (GROUND) □230VAC (NO GROUND) ■ 3.7VDC □24VDC |

# 3.2 Identification of the Equipment Under Test (EUT)

| EUT# | TYPE | MANF.              | MODEL           | SERIAL# |
|------|------|--------------------|-----------------|---------|
| 1    | EUT  | Psion Teklogix Inc | 7505-BTSDCMHC25 | N/A     |

## 3.3 Identification of Accessory equipment

| AE# | TYPE             | MANF.   | MODEL       | SERIAL# |
|-----|------------------|---------|-------------|---------|
| 1   | AC/DC<br>ADAPTER | Phihong | PSA15R-050P | N/A     |

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## 4 Subject Of Investigation

All testing was performed on the product referred to in Section 3 as EUT. This test report contains full radiated and conducted testing as per FCC15.247 on the EUT with the Bluetooth module.

The Bluetooth module is tested with host device handheld computer 7505. A control software provided by Psion is used to operate the module on desired channel and power level while the measurement took place.

During the testing process the EUT was tested on a single channel using PRBS9 payload using DH5, 2DH5 or 3DH5 packets, all data in this report shows the worst case between horizontal and vertical polarization for above 1GHz.

The objective of the measurements done by Cetecom Inc. was to measure the performance of the EUT as specified by requirements listed in FCC rules Part 15.247 of Title 47 of the Code of Federal Regulations and Industry Canada rules RSS210. The maximization of portable equipment is conducted in accordance with ANSI C63.4.

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# 5 Measurements (Radiated)

# 5.1 MAXIMUM PEAK OUTPUT POWER

## **EIRP: GFSK**

| TEST CONDITIONS         |                      | MAXIMUM PEAK OUTPUT POWER (dBm) |       |       |
|-------------------------|----------------------|---------------------------------|-------|-------|
| Frequenc                | cy (MHz)             | 2402                            | 2441  | 2480  |
| T <sub>nom</sub> (23)°C | V <sub>nom</sub> VDC | -5.56                           | -4.03 | -3.30 |
| Measurement uncertainty |                      | ±0.5dBm                         |       |       |

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## **EIRP LOW CHANNEL-GFSK**

Customer:: Pscion Test Mode: BT GFSK

ANT Orientation: H EUT Orientation: V Test Engineer: Sam

Voltage: AC adaptor TT@57° Comments:

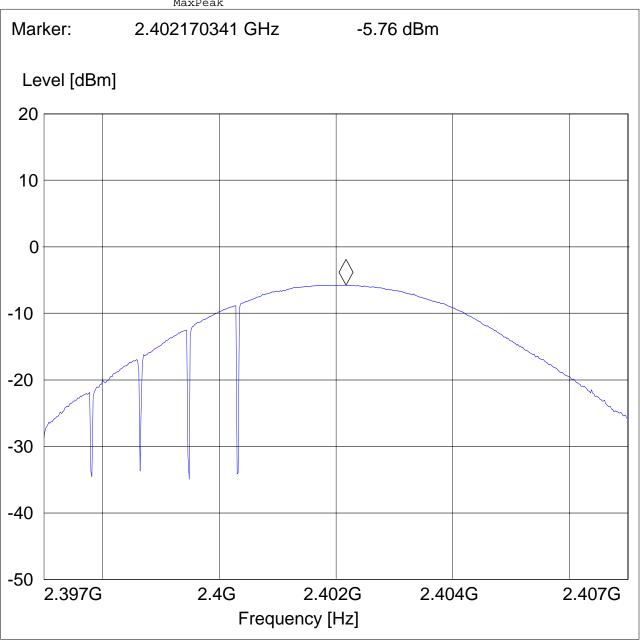
#### SWEEP TABLE: "EIRP BT low channel"

Short Description: EIRP Bluetooth channel-2402MHz Detector Meas. IF Transducer Start Stop

Bandw. Frequency Frequency Time

2.4 GHz MaxPeak Coupled 3 MHz DUMMY-DBM 2.4 GHz

MaxPeak



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## **EIRP MIDDLE CHANNEL-GFSK**

HC25

Customer:: Pscion

BT GFSK CH39 Test Mode:

ANT Orientation: H EUT Orientation: V Test Engineer: Sam

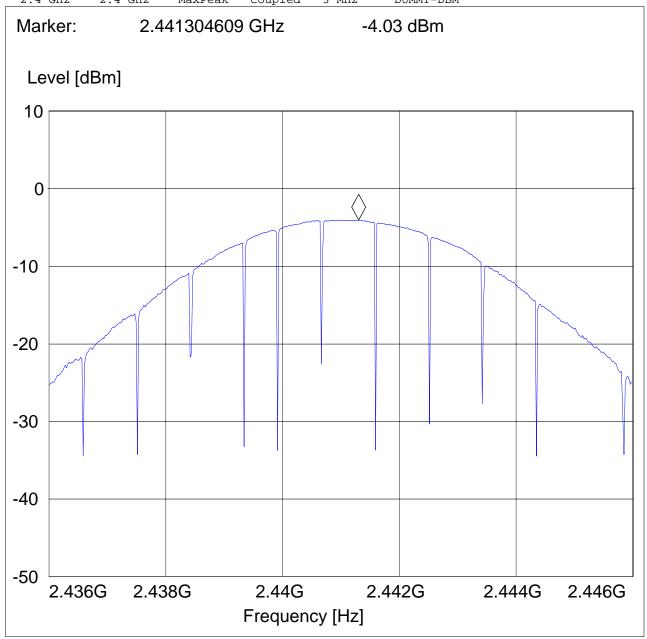
Voltage: AC adaptor TT@57° Comments:

#### SWEEP TABLE: "EIRP BT mid channel"

Short Description: EIRP Bluetooth channel-2441MHz Detector Meas. IF Transducer Start Stop Bandw.

Frequency Frequency Time

2.4 GHz MaxPeak Coupled DUMMY-DBM 2.4 GHz 3 MHz



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#### **EIRP HIGH CHANNEL-GFSK**

EUT: HC25 Customer:: Psion

Test Mode: BT GFSK CH78

ANT Orientation: H
EUT Orientation: V
Test Engineer: Sam
Voltage: AC ac

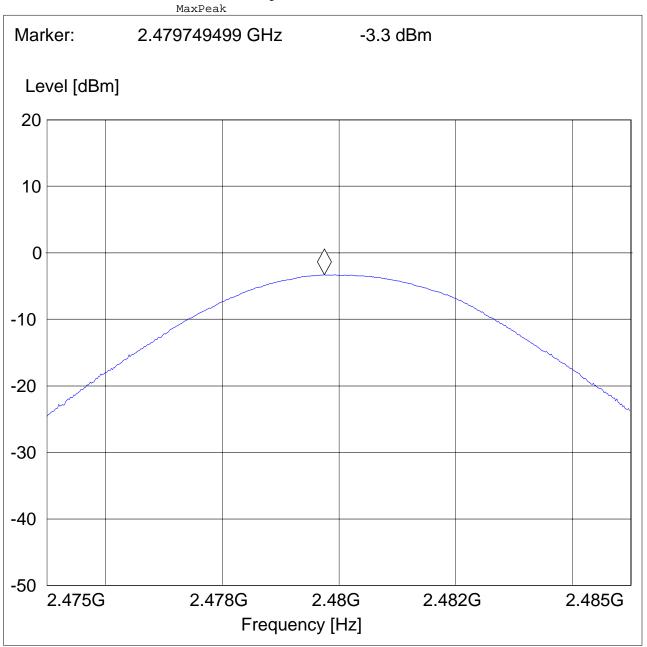
Voltage: AC adaptor Comments: TT@57°

#### SWEEP TABLE: "EIRP BT high channel"

Short Description: EIRP Bluetooth channel-2480MHz
Start Stop Detector Meas. IF Transducer

Frequency Frequency Time Bandw.

2.5 GHz 2.5 GHz MaxPeak Coupled 3 MHz DUMMY-DBM



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## 5.2 RESTRICTED BAND EDGE COMPLIANCE RADIATED §15.247/15.205

## **5.2.1 LIMITS**

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

| MHz                 | MHz                   | MHz             | GHz           |
|---------------------|-----------------------|-----------------|---------------|
| 0.090 - 0.110       | 16.42 - 16.423        | 399.9 - 410     | 4.5 - 5.15    |
| 10.495 - 0.505      | 16.69475 - 16.69525   | 608 - 614       | 5.35 - 5.46   |
| 2.1735 - 2.1905     | 16.80425 - 16.80475   | 960 - 1240      | 7.25 - 7.75   |
| 4.125 - 4.128       | 25.5 - 25.67          | 1300 - 1427     | 8.025 - 8.5   |
| 4.17725 - 4.17775   | 37.5 - 38.25          | 1435 - 1626.5   | 9.0 - 9.2     |
| 4.20725 - 4.20775   | 73 - 74.6             | 1645.5 - 1646.5 | 9.3 - 9.5     |
| 6.215 - 6.218       | 74.8 - 75.2           | 1660 - 1710     | 10.6 - 12.7   |
| 6.26775 - 6.26825   | 108 - 121.94          | 1718.8 - 1722.2 | 13.25 - 13.4  |
| 6.31175 - 6.31225   | 123 - 138             | 2200 - 2300     | 14.47 - 14.5  |
| 8.291 - 8.294       | 149.9 - 150.05        | 2310 - 2390     | 15.35 - 16.2  |
| 8.362 - 8.366       | 156.52475 - 156.52525 | 2483.5 - 2500   | 17.7 - 21.4   |
| 8.37625 - 8.38675   | 156.7 - 156.9         | 2690 - 2900     | 22.01 - 23.12 |
| 8.41425 - 8.41475   | 162.0125 - 167.17     | 3260 - 3267     | 23.6 - 24.0   |
| 12.29 - 12.293      | 167.72 - 173.2        | 3332 - 3339     | 31.2 - 31.8   |
| 12.51975 - 12.52025 | 240 - 285             | 3345.8 - 3358   | 36.43 - 36.5  |
| 12.57675 - 12.57725 | 322 - 335.4           | 3600 - 4400     | (2)           |
| 13.36 - 13.41       |                       |                 |               |

<sup>\*</sup>PEAK LIMIT= 74dBuV/m

<sup>\*</sup>AVG. LIMIT= 54dBuV/m

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#### 5.2.2 RESULTS: GFSK

#### (2402MHz) LOWER BAND EDGE PEAK -GFSK MODULATION

EUT: HC25
Customer:: Psion
Test Mode: BT CH 0
ANT Orientation: H
EUT Orientation: V

Test Engineer: peter
Voltage: AC ADAPTER

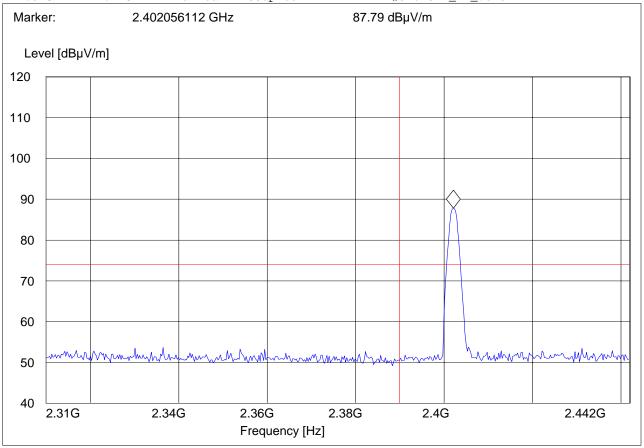
Comments:

SWEEP TABLE: "FCC15.247 LBE\_PK"

Start Stop Detector Meas. IF Transducer

Frequency Frequency Time Bandw.

2.3 GHz 2.4 GHz MaxPeak Coupled 1 MHz #326horn\_AF\_vert



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## (2402MHz) LOWER BAND EDGE AVERAGE -GFSK MODULATION

EUT: HC25

Customer:: Psion
Test Mode: BT CH 0
ANT Orientation: H

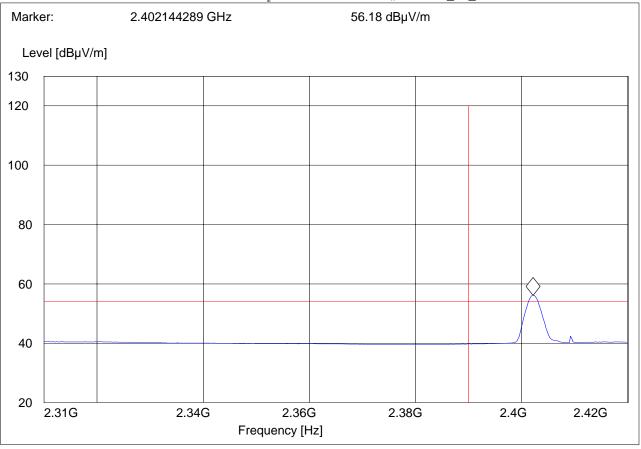
EUT Orientation: V
Test Engineer: peter
Voltage: AC ADAPTER

Comments:

#### SWEEP TABLE: "FCC15.247 LBE\_AVG"

Start Stop Detector Meas. IF Transducer Frequency Frequency Time Bandw.

Frequency Frequency Time Bandw.
2.3 GHz 2.4 GHz MaxPeak Coupled 1 MHz #326horn\_AF\_vert



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## (2480MHz) HIGHER BAND EDGE PEAK -GFSK MODULATION

EUT: HC25
Customer:: Psion
Test Mode: BT CH 0

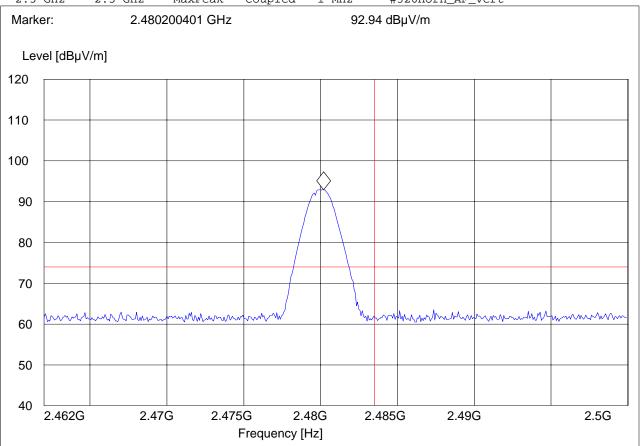
ANT Orientation: H
EUT Orientation: V
Test Engineer: peter
Voltage: AC ADAPTER

Comments:

#### SWEEP TABLE: "FCC15.247 HBE\_PK"

Start Stop Detector Meas. IF Transducer

Frequency Frequency Time Bandw.
2.5 GHz 2.5 GHz MaxPeak Coupled 1 MHz #326horn\_AF\_vert



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## HIGHER BAND EDGE AVERAGE-GFSK MODULATION

EUT: HC25
Customer:: Psion
Test Mode: BT CH 0

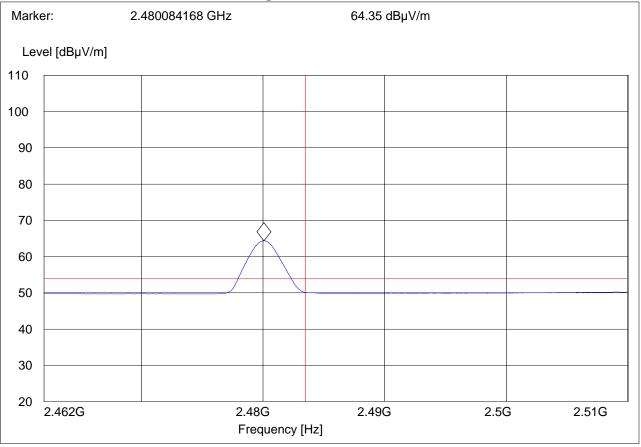
ANT Orientation: H
EUT Orientation: V
Test Engineer: peter
Voltage: AC ADAPTER

Comments:

## SWEEP TABLE: "FCC15.247 HBE\_AVG"

Start Stop Detector Meas. IF Transducer Frequency Frequency Time Bandw.

Frequency Frequency Time Bandw.
2.5 GHz 2.5 GHz MaxPeak Coupled 1 MHz #326horn\_AF\_horz



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# 5.3 TRANSMITTER SPURIOUS EMISSIONS RADIATED § 15.247/15.205/15.209

#### **5.3.1 LIMITS**

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

| MHz                 | MHz                            | MHz             | GHz              |  |
|---------------------|--------------------------------|-----------------|------------------|--|
| 0.090 - 0.110       | 16.42 - 16.423                 | 399.9 - 410     | 4.5 - 5.15       |  |
| 10.495 - 0.505      | 16.69475 - 16.69525            | 608 - 614       | 5.35 - 5.46      |  |
| 2.1735 - 2.1905     | 16.80425 - 16.80475            | 960 - 1240      | 7.25 - 7.75      |  |
| 4.125 - 4.128       | 25.5 - 25.67                   | 1300 - 1427     | 8.025 - 8.5      |  |
| 4.17725 - 4.17775   | 37.5 - 38.25                   | 1435 - 1626.5   | 9.0 - 9.2        |  |
| 4.20725 - 4.20775   | 73 - 74.6                      | 1645.5 - 1646.5 | 9.3 - 9.5        |  |
| 6.215 - 6.218       | 74.8 - 75.2                    | 1660 - 1710     | 10.6 - 12.7      |  |
| 6.26775 - 6.26825   | 6.26775 - 6.26825 108 - 121.94 |                 | 13.25 - 13.4     |  |
| 6.31175 - 6.31225   | 5.31175 - 6.31225 123 - 138    |                 | 14.47 - 14.5     |  |
| 8.291 - 8.294       | 149.9 - 150.05                 | 2310 - 2390     | 15.35 - 16.2     |  |
| 8.362 - 8.366       | 156.52475 - 156.52525          | 2483.5 - 2500   | 17.7 - 21.4      |  |
| 8.37625 - 8.38675   | 156.7 - 156.9                  | 2690 - 2900     | 22.01 - 23.12    |  |
| 8.41425 - 8.41475   | 162.0125 - 167.17              | 3260 - 3267     | 23.6 - 24.0      |  |
| 12.29 - 12.293      | 167.72 - 173.2                 | 3332 - 3339     | 31.2 - 31.8      |  |
| 12.51975 - 12.52025 | 240 - 285                      | 3345.8 - 3358   | 36.43 - 36.5     |  |
| 12.57675 - 12.57725 | 322 - 335.4                    | 3600 - 4400     | ( <sup>2</sup> ) |  |
| 13.36 - 13.41       |                                |                 |                  |  |

<sup>\*</sup>PEAK LIMIT= 74dBuV/m

## **NOTE:**

- 1. The radiated emissions were done with different settings, using the relevant pre-amplifiers for the relevant frequency ranges. This is the reason that the graphs show different noise levels. In the range between 3 and 25 GHz very short cable connections to the antenna was used to minimize the noise level.
- 2. All measurements are done in peak mode using an average limit, unless specified with the plots.

## Results for the radiated measurements below 30MHz according § 15.33

| Frequency |              | Measured values                       | Remarks                                   |  |
|-----------|--------------|---------------------------------------|---|--|
|           | 9KHz – 30MHz | No emissions found, caused by the EUT | This is valid for all the tested channels |  |

<sup>\*</sup>AVG. LIMIT= 54dBuV/m

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#### 5.3.2 RESULTS

## 30MHz – 1GHz Antenna: vertical

Note: This plot is valid for low, mid, high channels (worst-case plot)

EUT: HC25
Customer:: Psion
Test Mode: BT CH 39

ANT Orientation: V EUT Orientation: V Test Engineer: Sam

Voltage: AC ADAPTER

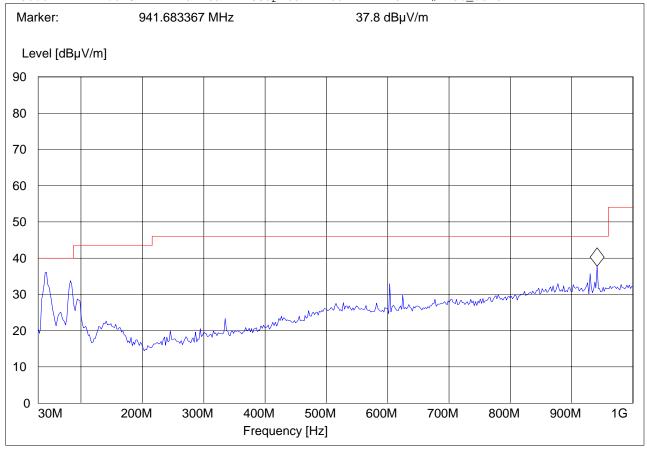
Comments:

#### SWEEP TABLE: "FCC15.247\_30M-1G\_Ver"

Start Stop Detector Meas. IF Transducer

Frequency Frequency Time Bandw.

30.0 MHz 1.0 GHz MaxPeak Coupled 100 kHz 3141-#1186\_Vert



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## **30MHz - 1GHz**

## Antenna: horizontal

Note: This plot is valid for low, mid, high channels (worst-case plot)

HC25 EUT: Customer:: Psion Test Mode: BT CH 39

ANT Orientation: H EUT Orientation: V Test Engineer:

AC ADAPTER Voltage:

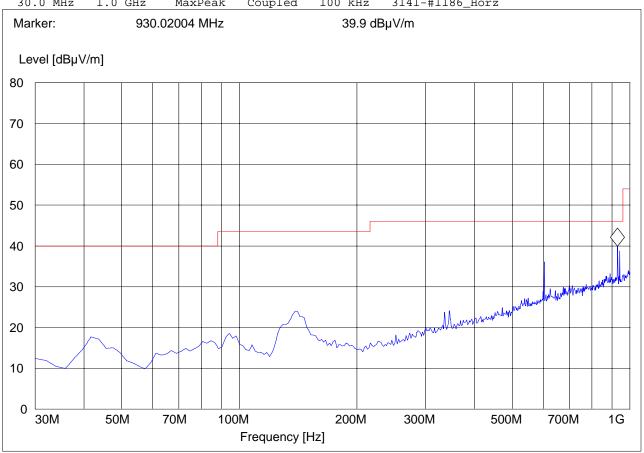
Comments:

#### SWEEP TABLE: "FCC15.247\_30M-1G\_Hor"

Stop Detector Meas. Transducer Start IF

Frequency Frequency Bandw. Time

30.0 MHz Coupled 100 kHz 3141-#1186\_Horz 1.0 GHz MaxPeak



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## 1-3GHz (2402MHz)

Note: The peak above the limit line is the carrier freq.

Note: Peak Reading vs. Average limit

HC25 EUT: Customer:: Psion Test Mode: BT CH 0 ANT Orientation: H EUT Orientation: V Test Engineer: Sam

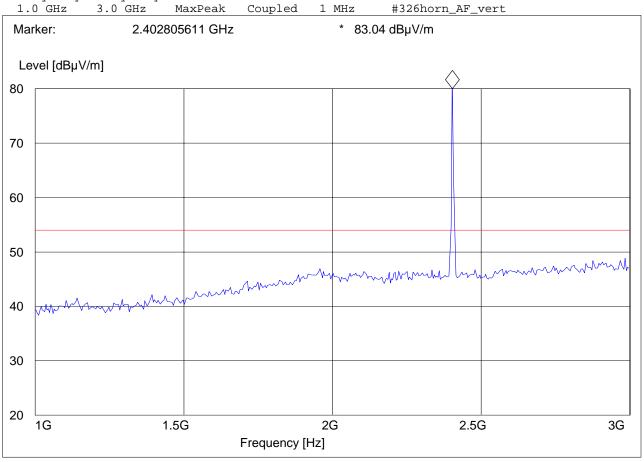
AC ADAPTER Voltage:

Comments:

#### SWEEP TABLE: "FCC15.247\_1-3G"

Start Stop Detector Meas. IF Transducer Frequency Frequency Time Bandw.

Coupled



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## 1-3GHz (2441MHz)

Note: The peaks above the limit line is the carrier freq.

Note: Peak Reading vs. Average limit

EUT: HC25 Customer:: Psion Test Mode: BT CH 39

ANT Orientation: H
EUT Orientation: V
Test Engineer: Sam

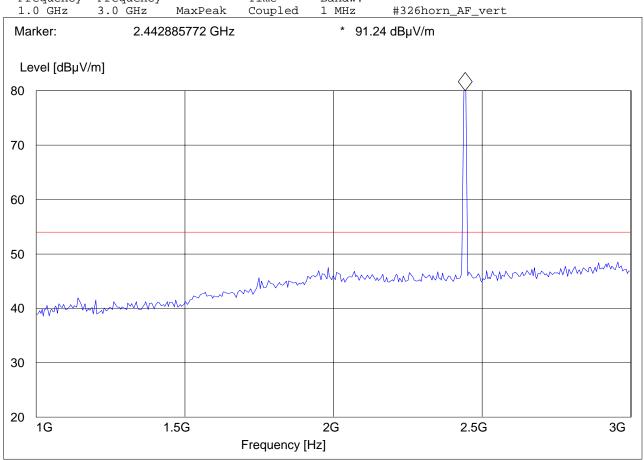
Voltage: AC ADAPTER

Comments:

#### SWEEP TABLE: "FCC15.247\_1-3G"

Start Stop Detector Meas. IF Transducer

Frequency Frequency Time Bandw.



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## 1-3GHz (2480MHz)

Note: The peaks above the limit line is the carrier freq.

Note: Peak Reading vs. Average limit

EUT: HC25 Customer:: Psion Test Mode: BT CH 78

ANT Orientation: H
EUT Orientation: V
Test Engineer: Sam

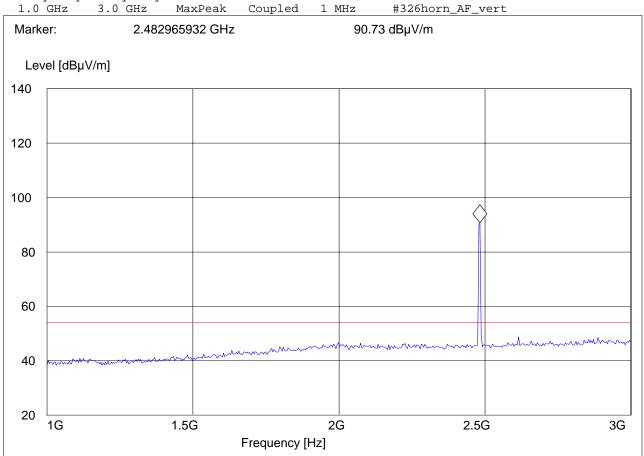
Voltage: AC ADAPTER

Comments:

#### SWEEP TABLE: "FCC15.247\_1-3G"

Start Stop Detector Meas. IF Transducer

Frequency Frequency Time Bandw.



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## 3-18GHz (2402MHz)

## Note: Peak Reading vs. Average limit

EUT: HC25
Customer:: Psion
Test Mode: BT CH 0
ANT Orientation: H

EUT Orientation: V Test Engineer: Sam

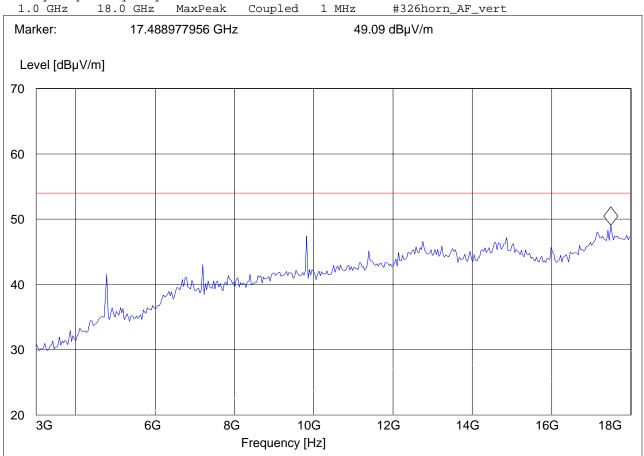
Voltage: AC ADAPTER

Comments:

#### SWEEP TABLE: "FCC15.247\_3-18G"

Start Stop Detector Meas. IF Transducer

Frequency Frequency Time Bandw.



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## 3-18GHz (2441MHz)

Note: Peak Reading vs. Average limit

HC25 EUT: Customer:: Psion Test Mode: BT CH 0 ANT Orientation: H EUT Orientation: V Test Engineer: Sam

Voltage: AC ADAPTER

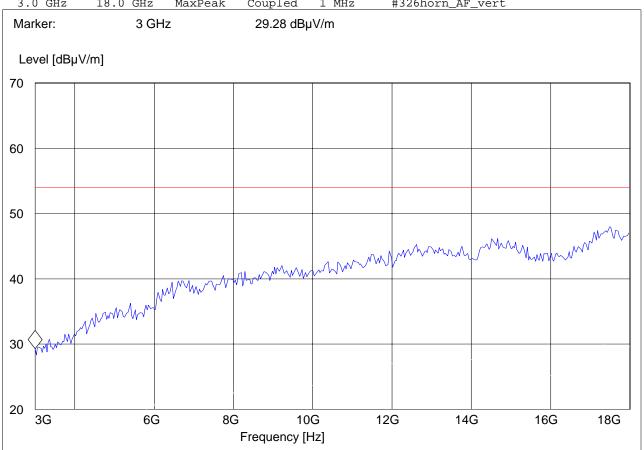
Comments:

#### SWEEP TABLE: "FCC15.247\_3-18G"

Stop Detector IF Transducer Start Meas.

Frequency Frequency Time Bandw.

3.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz #326horn\_AF\_vert



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## 3-18GHz (2480MHz)

Note: Peak Reading vs. Average limit

HC25 EUT: Customer:: Psion Test Mode: BT CH 0 ANT Orientation: H

EUT Orientation: V Test Engineer:

AC ADAPTER Voltage:

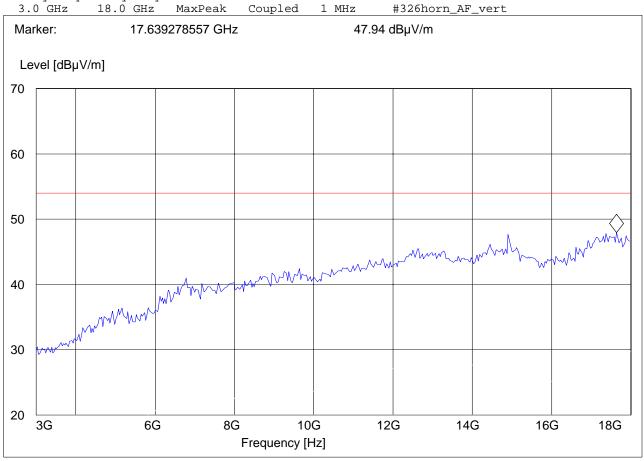
Comments:

#### SWEEP TABLE: "FCC15.247\_3-18G"

Start Stop Detector Meas. IF Transducer

Frequency Frequency Time Bandw.

Coupled #326horn\_AF\_vert



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## 18-25GHz

Note: This plot is valid for low, mid, high channels (worst-case plot)

Note: Peak Reading vs. Average limit

EUT: HC25 Customer:: Psion Test Mode: BT CH 39

ANT Orientation: H
EUT Orientation: V
Test Engineer: Sam

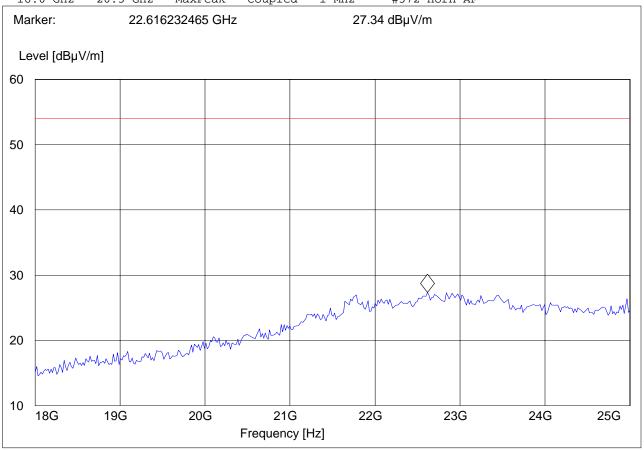
Voltage: AC ADAPTER

Comments:

#### SWEEP TABLE: "FCC15.247\_18-26.5G"

Start Stop Detector Meas. IF Transducer Frequency Frequency Time Bandw.

18.0 GHz 26.5 GHz MaxPeak Coupled 1 MHz #572 horn AF



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# 5.4 RECEIVER RADIATED EMISSIONS & 133

§ 2.1053 / RSS-132

#### **NOTE:**

1. The radiated emissions were done with different settings, using the relevant pre-amplifiers for the relevant frequency ranges. This is the reason that the graphs show different noise levels. In the range between 3GHz and 26.5GHz very short cable connections to the antenna was used to minimize the noise level.

#### Limits

## **SUBCLAUSE § RSS-133**

| Frequency (MHz) | Field strength (μV/m) | Measurement distance (m) |
|-----------------|-----------------------|--------------------------|
| 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                        |

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## **30MHz - 1GHz Antenna: vertical**

Note: This plot is valid for low, mid, high channels (worst-case plot)

EUT: 7505 Customer:: Psion Test Mode: BT CH 39

ANT Orientation: H EUT Orientation: V Test Engineer: Sam

AC ADAPTER Voltage:

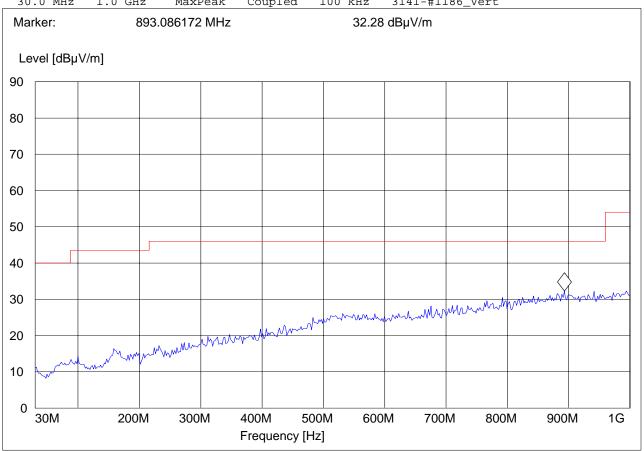
Comments:

#### SWEEP TABLE: "FCC15.247\_30M-1G\_Ver"

Stop Start Detector Meas. IF Transducer

Frequency Frequency Bandw. Time

30.0 MHz 1.0 GHz Coupled 100 kHz 3141-#1186\_Vert MaxPeak



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## **30MHz - 1GHz**

## **Antenna: horizontal**

Note: This plot is valid for low, mid, high channels (worst-case plot)

HC25 EUT: Customer:: Psion Test Mode: BT CH 39

ANT Orientation: H EUT Orientation: V Test Engineer: Sam

AC ADAPTER Voltage:

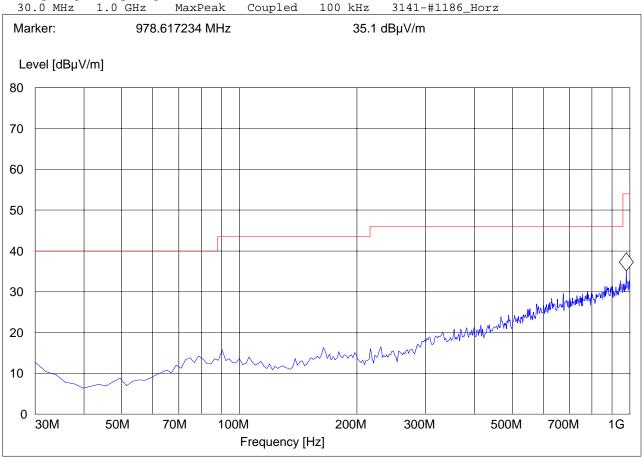
Comments:

#### SWEEP TABLE: "FCC15.247\_30M-1G\_Hor"

Stop Start Detector Meas. IF Transducer

Frequency Frequency Bandw. Time

30.0 MHz 3141-#1186\_Horz 1.0 GHz MaxPeak 100 kHz



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#### **1-3GHz**

## Note: Peak Reading vs. Average limit

Customer:: Psion Test Mode: BT CH 39 ANT Orientation: H

EUT Orientation: V Test Engineer: Sam

Voltage: AC ADAPTER

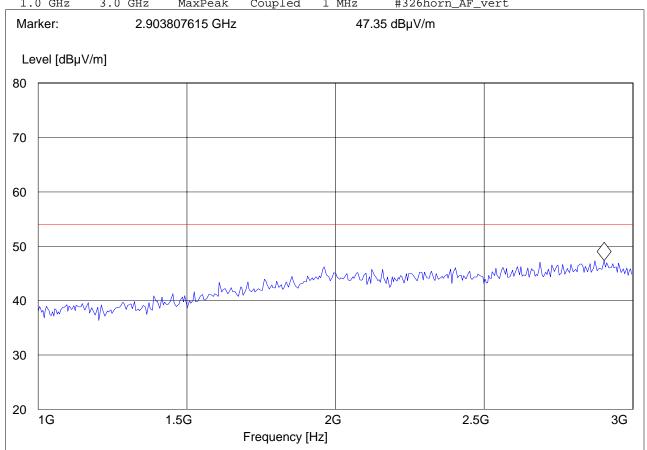
Comments:

#### SWEEP TABLE: "FCC15.247\_1-3G"

Stop IF Transducer Start Detector Meas.

Frequency Frequency Time Bandw.

1.0 GHz 3.0 GHz MaxPeak Coupled 1 MHz #326horn\_AF\_vert



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## 3-18GHz

## Note: Peak Reading vs. Average limit

Customer:: Psion Test Mode: BT CH 39 ANT Orientation: H

EUT Orientation: V Test Engineer: Sam

Voltage: AC ADAPTER

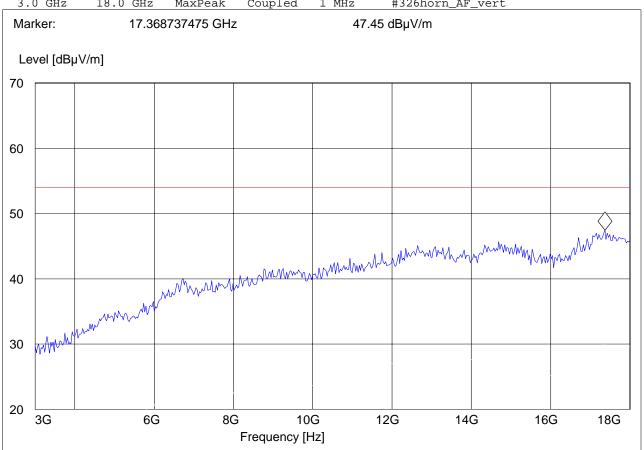
Comments:

#### SWEEP TABLE: "FCC15.247\_3-18G"

Stop IF Transducer Start Detector Meas.

Frequency Frequency Time Bandw.

3.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz #326horn\_AF\_vert



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# 6 Measurements (CONDUCTED)

# 6.1 MAXIMUM PEAK OUTPUT POWER § 15.247 (CONDUCTED)

## 6.1.1 LIMIT SUB CLAUSE § 15.247 (b) (1)

| Frequency range | RF power output |
|-----------------|-----------------|
| 2400-2483.5 MHz | 30dBm           |

<sup>\*</sup>limit is based upon antenna gain of less than or equal to 6dBi.

## 6.1.2 RESULTS: GFSK

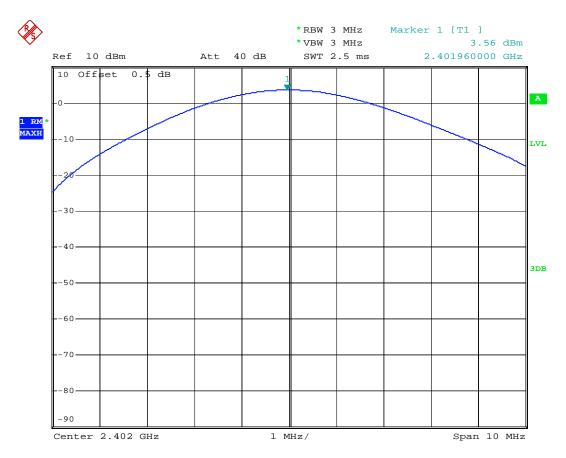
| TEST CONDITIONS         |                      | MAXIMUM PEAK OUTPUT POWER (dBm) |          |          |
|-------------------------|----------------------|---------------------------------|----------|----------|
| Frequency (MHz)         |                      | 2402 MHz                        | 2441 MHz | 2480 MHz |
| T <sub>nom</sub> (23)°C | V <sub>nom</sub> VDC | 3.56                            | 3.97     | 3.93     |

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# (2402 MHz) **GFSK**



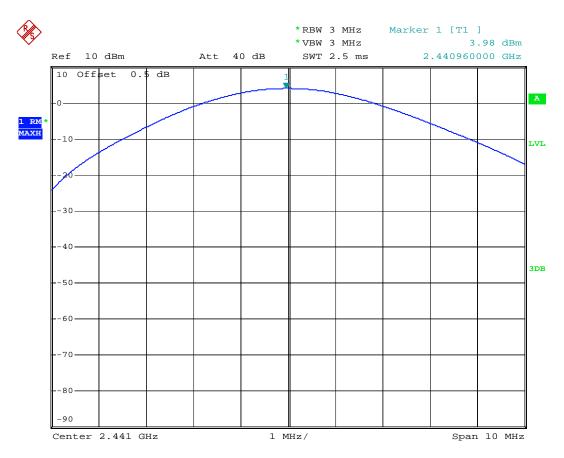
Date: 14.NOV.2007 19:45:19

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# (2441 MHz) **GFSK**



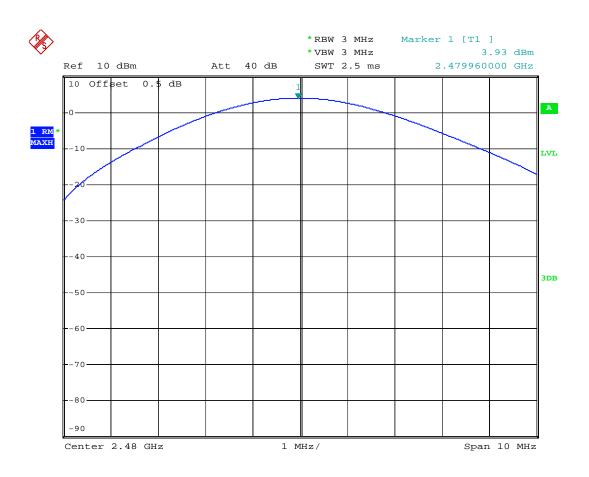
Date: 14.NOV.2007 19:44:37

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# (2480 MHz) **GFSK**



Date: 14.NOV.2007 19:46:01

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## 6.2 20dB BANDWIDTH

## 6.2.1 LIMIT SUB CLAUSE § 15.247 (a) (1) (i) (ii) (iii)

Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

## 6.2.2 RESULTS: GFSK

| TEST CONDITIONS         |                      | BANDWIDTH<br>(KHz) |          |          |
|-------------------------|----------------------|--------------------|----------|----------|
| Frequency (MHz)         |                      | 2402 MHz           | 2441 MHz | 2480 MHz |
| T <sub>nom</sub> (23)°C | V <sub>nom</sub> VDC | 872                | 872      | 876      |

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## (2402 MHz) **GFSK**



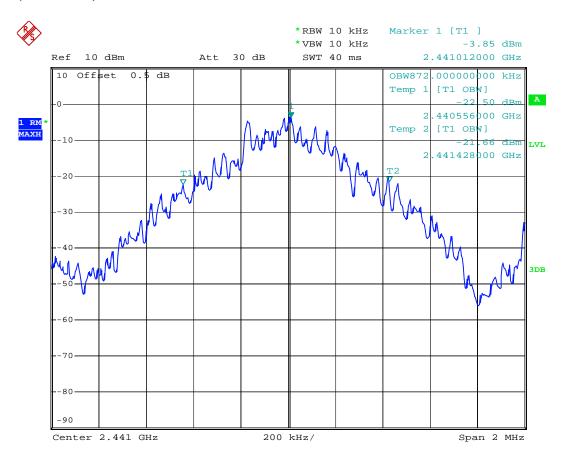
Date: 14.NOV.2007 19:51:56

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## (2441 MHz) **GFSK**



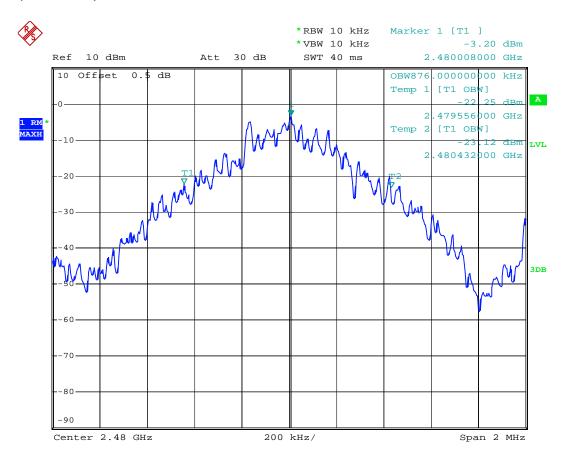
Date: 14.NOV.2007 19:51:14

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## (2480 MHz) **GFSK**



Date: 14.NOV.2007 19:50:19

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# 6.3 CARRIER FREQUENCY SEPARATION

# **6.3.1** LIMIT SUB CLAUSE § 15.247 (a) (1) (i) (ii) (iii)

| SEPARATION                    |  |
|-------------------------------|--|
| > 25 KHz or > 20 dB BANDWIDTH |  |

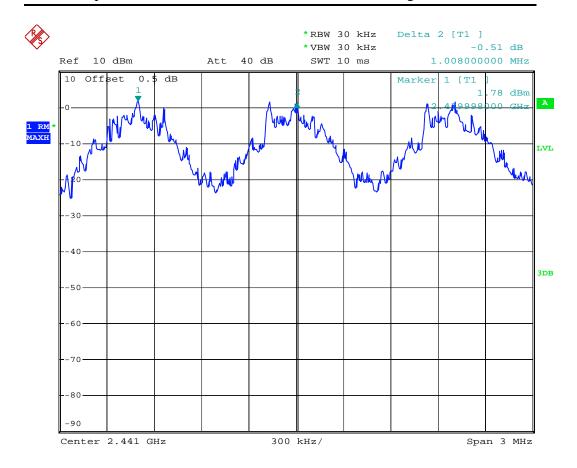
## **6.3.2 RESULTS:**

| TEST CON                | NDITIONS             | SEPARATION<br>(MHz) |
|-------------------------|----------------------|---------------------|
| T <sub>nom</sub> (23)°C | V <sub>nom</sub> VDC | 1.008               |

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# 6.4 NUMBER OF HOPPING CHANNELS

## 6.4.1 LIMIT SUB CLAUSE § 15.247 (a) (1) (iii)

| NUMBER OF CHANNELS |
|--------------------|
| > 15               |

## **6.4.2 RESULTS:**

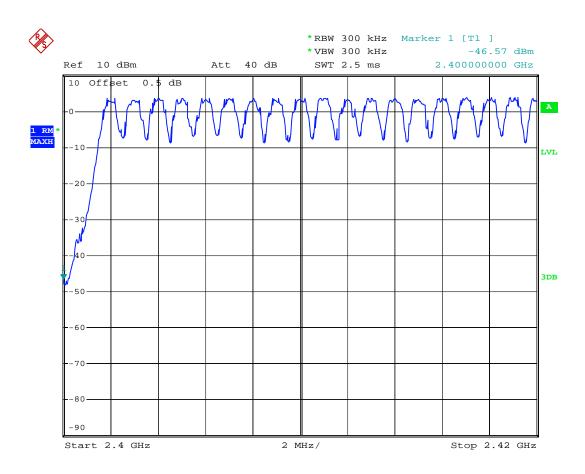
| TEST CONDITIONS         |                      | NUMBER OF CHANNELS |
|-------------------------|----------------------|--------------------|
| T <sub>nom</sub> (23)°C | V <sub>nom</sub> VDC | 79                 |

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# PLOT 1



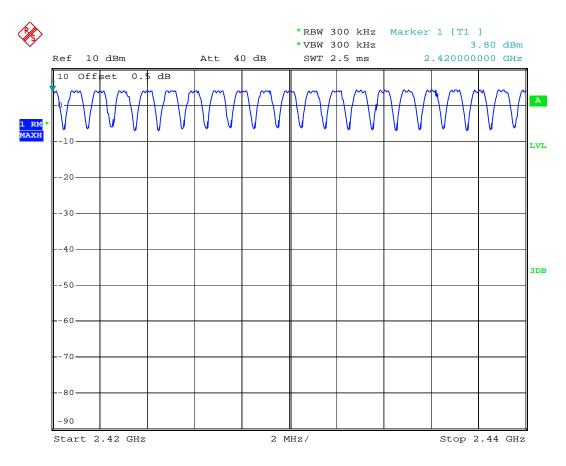
Date: 14.NOV.2007 19:58:46

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## PLOT 2



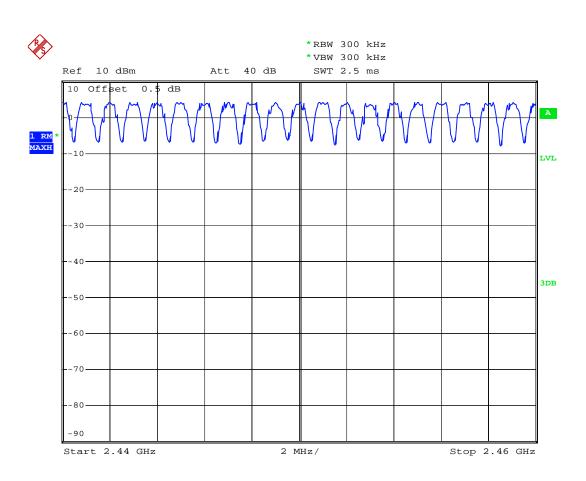
Date: 14.NOV.2007 20:04:50

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# PLOT 3



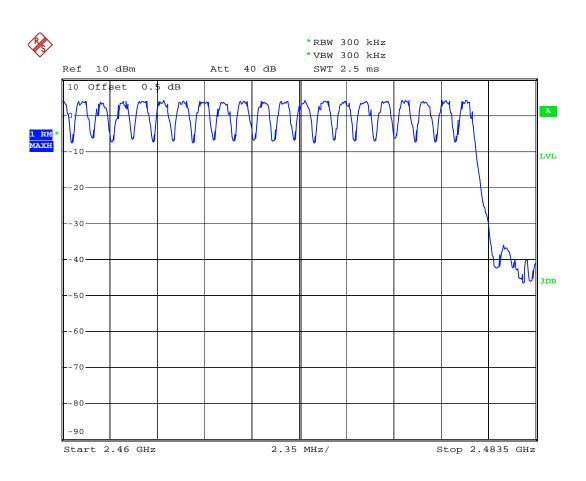
Date: 14.NOV.2007 20:07:08

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# PLOT 4



Date: 14.NOV.2007 20:08:52

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### **6.5** TIME OF OCCUPANCY (DWELL TIME)

### 6.5.1 LIMIT SUB CLAUSE § 15.247 (a) (1) (i) (ii) (iii)

| FREQUENCY RANGE | AVERAGE TIME OF OCCUPANCY |
|-----------------|---------------------------|
|                 | PER                       |
|                 | 31.6 SECONDS (LIMIT)      |
| 2400-2483.5     | < 0.4 Seconds             |

#### **6.5.2 RESULTS:**

| T <sub>nom</sub> (23)°C | V <sub>nom</sub> VDC |
|-------------------------|----------------------|
|-------------------------|----------------------|

#### For Bluetooth devices:

The dwell time of 0.4 s within a 31.6 second period in data mode is independent from the packet type (packet length). The calculation for a 31.6 second period is a follows:

Dwell time = time slot length \* hop rate / number of hopping channels \*31.6 s

Example for a DH1 packet (with a maximum length of one time slot) Dwell time =  $625 \mu s * 1600 1/s / 79 * 31.6 s = 0.4 s$  (in a 31.6 s period)

For multi-slot packet the hopping is reduced according to the length of the packet.

**Example for a DH5 packet (with a maximum length of five time slots)** 

Dwell time =  $5 * 625 \mu s * 1600 * 1/5 * 1/s / 79 * 31.6 s = 0.4 s$  (in a 31.6 s period)

This is the same for all BT devices and therefore all BT devices satisfy FCC requirement on time of occupancy (dwell time).

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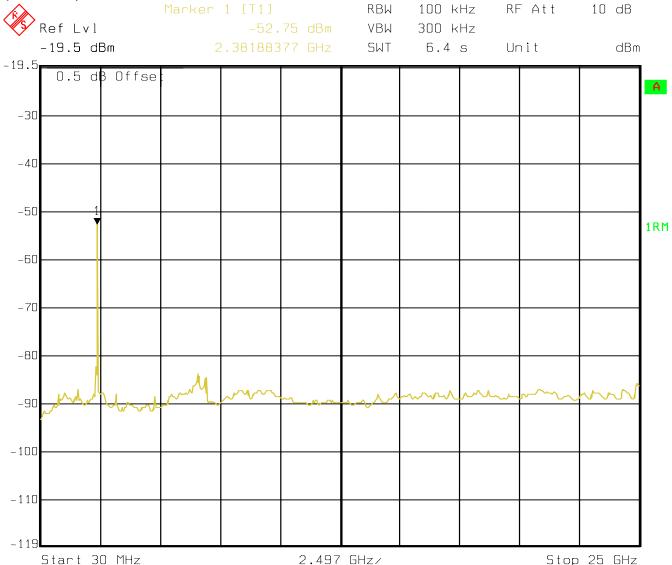
### 6.6 CONDUCTED SPURIOUS EMISSION

### 6.6.1 LIMIT SUB CLAUSE § 15.247 (d)

| FREQUENCY RANGE | limit  |
|-----------------|--------|
| 30M-25GHz       | -20dBc |

### 6.6.2 RESULTS: Tnom(23)°C VnomVDC

## (2402MHz)



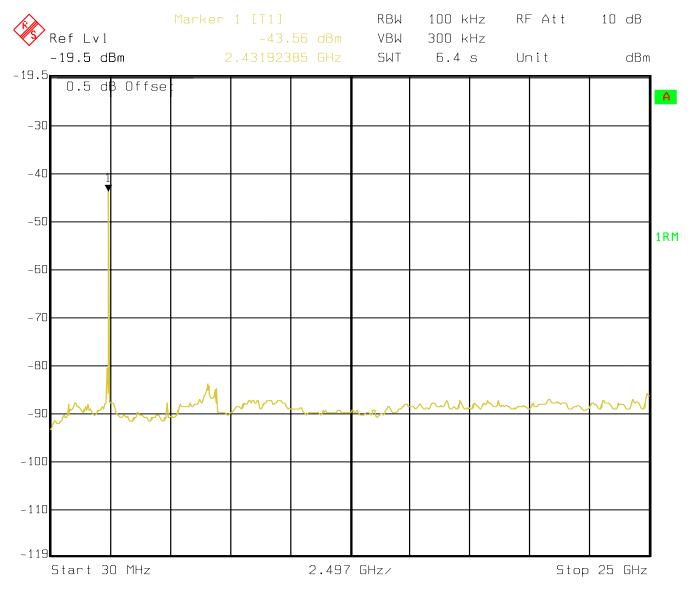
Date: 20.NOV.2007 08:24:24

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## (2441MHz)



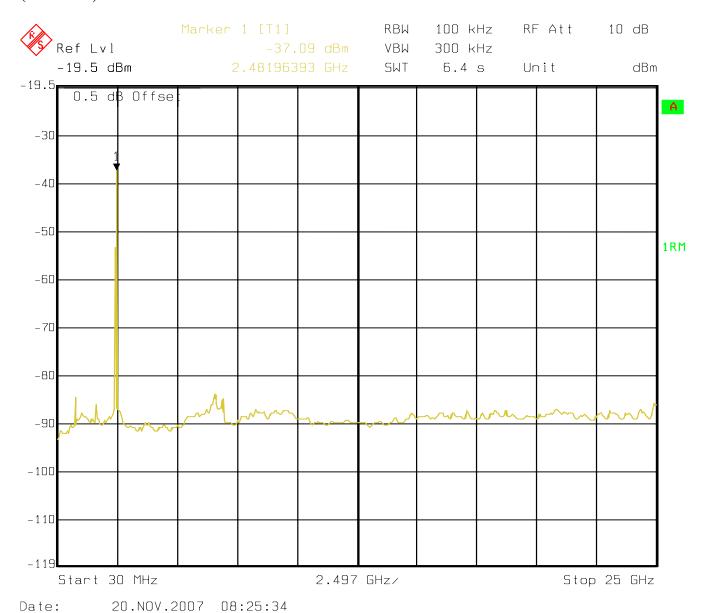
Date: 20.NOV.2007 08:24:58

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# (2480MHz)



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### 6.7 AC POWER LINE CONDUCTED EMISSIONS § 15.107/207

### **6.7.1** Limits

Technical specification: 15.107 / 15.207 (Revised as of August 20, 2002)

 $\S15.107$  (a) Except for Class A digital devices, for equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50  $\mu$ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

### 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        |  |  |
| * Decreases with logarithm of the fre | quency                 |           |  |  |

ANALYZER SETTINGS: RBW = 10KHz

VBW = 10KHz

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## 6.7.2 Results, TX Transmit Line:

EUT: HC25 Manufacturer: PSION

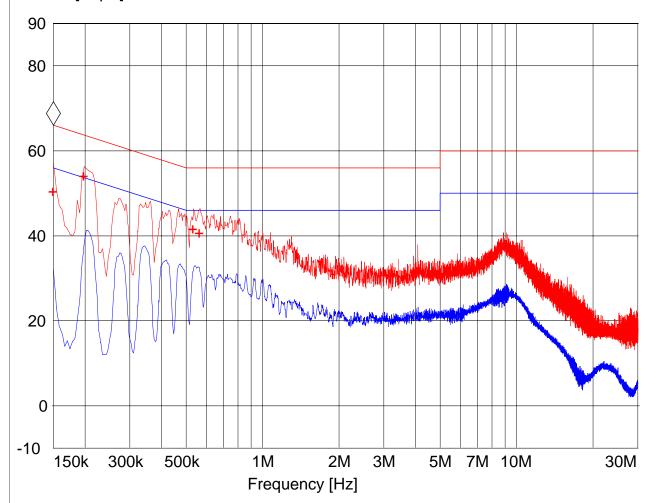
Operating Condition: GSM 850 Ch 190; WLAN CH 11; BT 2480MHz

ANT Orientation:: Conducted

EUT Orientation:: H
Test Engineer:: Marc
Power Supply:: AC Adapter
Comments:: Line

Marker: 150 kHz 66 dBµV

# Level [dBµV]



- + MES 55022 V AV QPk
  - MES 55022 cond MaxPk
- MES 55022 cond Avg
- LIM EN 55022 V QP Voltage QP Limit
  UNITED TO VOLTAGE AV Limit

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### MEASUREMENT RESULT: "55022 V AV QPk"

| 11/26 | /2007 10: | 57AM  |        |       |        |      |    |
|-------|-----------|-------|--------|-------|--------|------|----|
| Fr    | equency   | Level | Transd | Limit | Margin | Line | PΕ |
|       | MHz       | dΒμV  | dВ     | dΒμV  | dВ     |      |    |
|       |           |       |        |       |        |      |    |
| 0     | .150000   | 50.60 | 0.0    | 66    | 15.4   |      |    |
| 0     | .198000   | 54.30 | 0.0    | 64    | 9.4    |      |    |
| 0     | .534000   | 41.70 | 0.0    | 56    | 14.3   |      |    |
| 0     | .566000   | 40.90 | 0.0    | 56    | 15.1   |      |    |

#### LIMIT LINE: "EN 55022 V AV"

| ription: | Voltage AV Limit  |
|----------|---|
| 24PM     |   |
| Level    |   |
| dΒμV     |   |
| 56.00    |   |
| 46.00    |   |
| 46.00    |   |
| 50.00    |   |
| 50.00    |   |
|          | 24PM<br>Level<br>dBμV<br>56.00<br>46.00<br>46.00<br>50.00 |

### LIMIT LINE: "EN 55022 V QP"

| Short Description: 4/27/1998 2:24PM |         |       | Voltage | QP | Limit |
|-------------------------------------|---------|-------|---------|----|-------|
| Fr                                  | equency | Level |         |    |       |
|                                     | MHz     | dΒμV  |         |    |       |
| 0                                   | .150000 | 66.00 |         |    |       |
| 0                                   | .500000 | 56.00 |         |    |       |
| 5                                   | .000000 | 56.00 |         |    |       |
| 5                                   | .000000 | 60.00 |         |    |       |
| 30                                  | .000000 | 60.00 |         |    |       |
|                                     |         |       |         |    |       |

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### **6.7.3** TX Transmit Neutral:

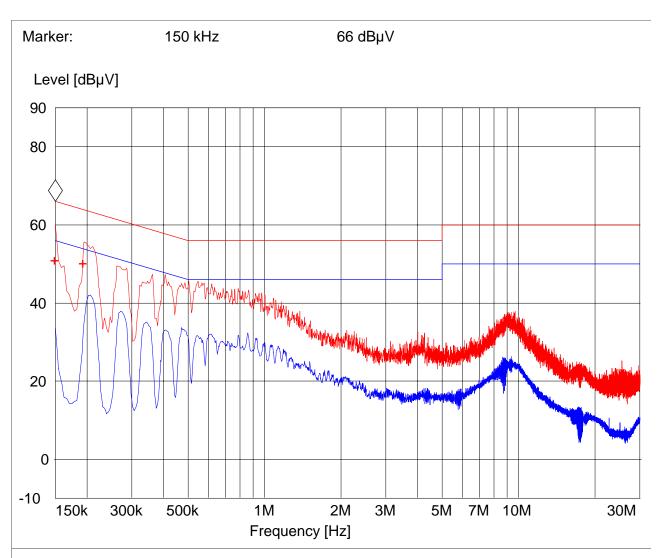
EUT: HC25 Manufacturer: PSION

Operating Condition: GSM 850 Ch 190; WLAN CH 11; BT 2480MHz

ANT Orientation:: Conducted EUT Orientation:: H
Test Engineer:: Marc

Power Supply: : AC Adapter

Comments: : N



- + MES 55022 V AV QPk
  - MES 55022 cond MaxPk
  - MES 55022 cond Avg
    - LIM EN 55022 V QP Voltage QP Limit Voltage AV Limit

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#### MEASUREMENT RESULT: "55022 V AV QPk"

| 11/26/2007 10:50A | IVI |
|-------------------|-----|

| Frequency<br>MHz     | Level<br>dBµV  |     | Limit<br>dBµV | Margin<br>dB | Line | PE |
|----------------------|----------------|-----|---------------|--------------|------|----|
| 0.150000<br>0.194000 | 51.10<br>50.30 | 0.0 | 66<br>64      | 14.9<br>13.5 |      |    |

#### LIMIT LINE: "EN 55022 V AV"

Voltage AV Limit Short Description: 4/27/1998 2:24PM Frequency Level MHz dΒμV 56.00 0.150000 0.500000 46.00 46.00 5.000000 50.00 50.00 5.000000

#### LIMIT LINE: "EN 55022 V QP"

30.000000

| Short Des<br>4/27/1998 | cription:<br>2:24PM | Voltage | QP | Limit |
|------------------------|---------------------|---------|----|-------|
| Frequenc               | y Level             | -       |    |       |
| MH                     | z dBµV              | Ţ       |    |       |
| 0 15000                |                     |         |    |       |
| 0.15000                | 0 66.00             | )       |    |       |
| 0.50000                | 0 56.00             | )       |    |       |
| 5.00000                | 0 56.00             | )       |    |       |
| 5.00000                | 0 60.00             | )       |    |       |
| 30.00000               | 0 60.00             | )       |    |       |
|                        |                     |         |    |       |

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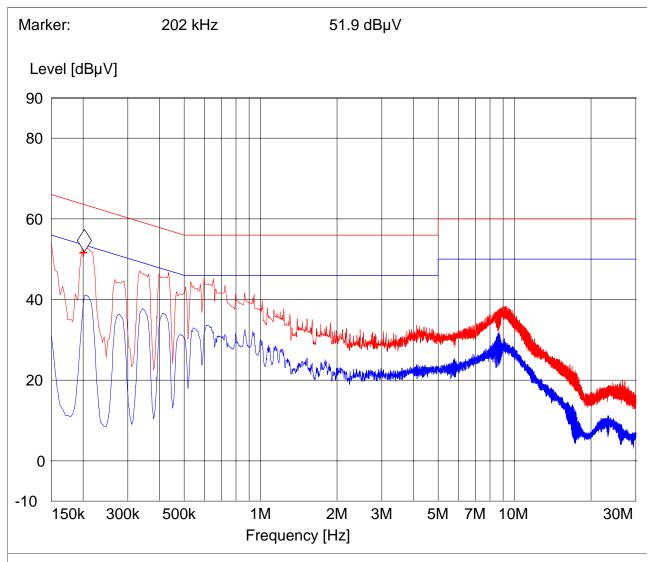
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## 6.7.4 Results, Idle Line:

EUT: 7505
Manufacturer: PSION
Operating Condition: IDLE
ANT Orientation:: Conducted

EUT Orientation:: H
Test Engineer:: Marc
Power Supply:: AC Adapter
Comments:: line; idle



MES 55022 V AV QPkMES 55022 cond MaxPk

MES 55022 cond Avg

- LIM EN 55022 V QP Voltage QP Limit - LIM EN 55022 V AV Voltage AV Limit

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#### MEASUREMENT RESULT: "55022 V AV QPK"

11/26/2007 12:32PM

| Frequency<br>MHz | Level<br>dBµV |     | Limit<br>dBµV | Margin<br>dB | Line | PE |
|------------------|---------------|-----|---------------|--------------|------|----|
| 0.202000         | 51.90         | 0.0 | 64            | 11.6         |      |    |

#### LIMIT LINE: "EN 55022 V AV"

| Short Descr<br>4/27/1998 2: | -              | Voltage | AV | Limit |
|-----------------------------|----------------|---------|----|-------|
| Frequency<br>MHz            | Level<br>dBuV  |         |    |       |
|                             | ,              |         |    |       |
| 0.150000<br>0.500000        | 56.00<br>46.00 |         |    |       |
| 5.000000                    | 46.00          |         |    |       |
| 5.000000                    | 50.00          |         |    |       |
| 30.000000                   | 50.00          |         |    |       |

#### LIMIT LINE: "EN 55022 V QP"

| QP Limit | Voltage | -     | Short Descr<br>4/27/1998 2: |
|----------|---------|-------|-----------------------------|
|          |         | Level | Frequency                   |
|          |         | dΒμV  | MHz                         |
|          |         | 66.00 | 0.150000                    |
|          |         | 56.00 | 0.500000                    |
|          |         | 56.00 | 5.000000                    |
|          |         | 60.00 | 5.000000                    |
|          |         | 60.00 | 30.000000                   |

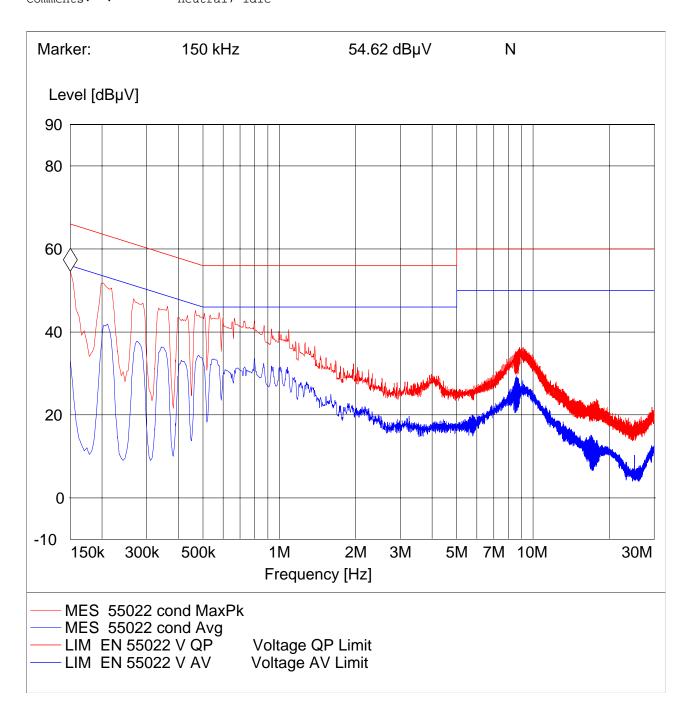
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### 6.7.5 TX Idle Neutral:

EUT: 7505
Manufacturer: PSION
Operating Condition: IDLE
ANT Orientation:: Conducted



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#### LIMIT LINE: "EN 55022 V AV"

Short Description: Voltage AV Limit 4/27/1998 2:24PM Frequency Level MHzdΒμV 0.150000 56.00 0.500000 46.00 46.00 5.000000 5.000000 50.00 30.000000 50.00

#### LIMIT LINE: "EN 55022 V QP"

| 4 | Short Descr | -     | Voltage | QP | Limit |
|---|-------------|-------|---------|----|-------|
|   | Frequency   | Level |         |    |       |
|   | MHz         | dΒμV  |         |    |       |
|   | 0.150000    | 66.00 |         |    |       |
|   | 0.500000    | 56.00 |         |    |       |
|   | 5.000000    | 56.00 |         |    |       |
|   | 5.000000    | 60.00 |         |    |       |
|   | 30.000000   | 60.00 |         |    |       |

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# 7 TEST EQUIPMENT AND ANCILLARIES USED FOR TESTS

| No | Instrument/Ancillar | Type                          | Manufacturer    | Serial No.   | Cal Due    | Interva |
|----|---------------------|-------------------------------|-----------------|--------------|------------|---------|
|    | $\mathbf{y}$        |                               |                 |              |            | l       |
| 01 | Spectrum Analyzer   | ESIB 40                       | Rohde &         | 100107       | May 2008   | 1 year  |
|    |                     |                               | Schwarz         |              |            |         |
| 02 | Spectrum Analyzer   | FSEM 30                       | Rohde &         | 100017       | August     | 1 year  |
|    |                     |                               | Schwarz         |              | 2008       |         |
| 03 | Signal Generator    | SMY02                         | Rohde &         | 836878/011   | May 2008   | 1 year  |
|    |                     |                               | Schwarz         |              |            |         |
| 04 | Power-Meter         | NRVD                          | Rohde &         | 0857.8008.02 | May 2008   | 1 year  |
|    |                     |                               | Schwarz         |              |            |         |
| 05 | Biconilog Antenna   | 3141                          | EMCO            | 0005-1186    | June 2008  | 1 year  |
| 06 | Horn Antenna (1-    | SAS-                          | AH Systems      | 325          | June 2008  | 1 year  |
|    | 18GHz)              | 200/571                       |                 |              |            |         |
| 07 | Horn Antenna (18-   | 3160-09                       | EMCO            | 1240         | June 2008  | 1 year  |
|    | 26.5GHz)            |                               |                 |              |            |         |
| 08 | Power Splitter      | 11667B                        | Hewlett Packard | 645348       | n/a        | n/a     |
| 09 | Climatic Chamber    | VT4004                        | Voltsch         | G1115        | May 2008   | 1 year  |
| 10 | High Pass Filter    | 5HC2700                       | Trilithic Inc.  | 9926013      | n/a        | n/a     |
| 11 | High Pass Filter    | 4HC1600                       | Trilithic Inc.  | 9922307      | n/a        | n/a     |
| 12 | Pre-Amplifier       | JS4-                          | Miteq           | 00616        | May 2008   | 1 year  |
|    |                     | 00102600                      |                 |              |            |         |
| 13 | Power Sensor        | URV5-Z2                       | Rohde &         | DE30807      | May 2008   | 1 year  |
| 13 |                     |                               | Schwarz         |              |            |         |
| 14 | Digital Radio Comm. | CMD-55                        | Rohde &         | 847958/008   | May 2008   | 1 year  |
|    | Tester              | CMD-33                        | Schwarz         | 04/930/000   | May 2008   |         |
| 15 | Universal Radio     | CMU 200                       | Rohde &         | 832221/06    | May 2008   | 1 year  |
|    | Comm. Tester        | CN10 200                      | Schwarz         | 032221/00    | 141ay 2006 |         |
| 16 | LISN                | SN ESH3-Z5 Rohde & 836679/003 |                 | 836679/003   | May 2008   | 1 year  |
|    |                     |                               | Schwarz         |              | ,          |         |
| 17 | Loop Antenna        | 6512                          | EMCO            | 00049838     | July 2008  | 2 years |

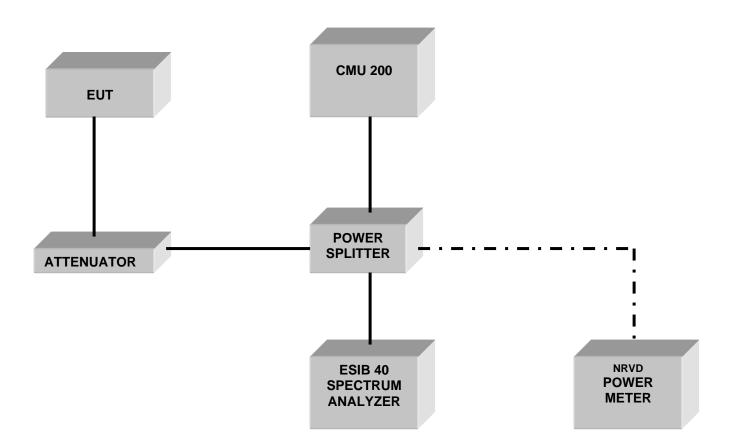
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# 8 BLOCK DIAGRAMS

# **Conducted Testing**



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# **Radiated Testing**

### **ANECHOIC CHAMBER**

