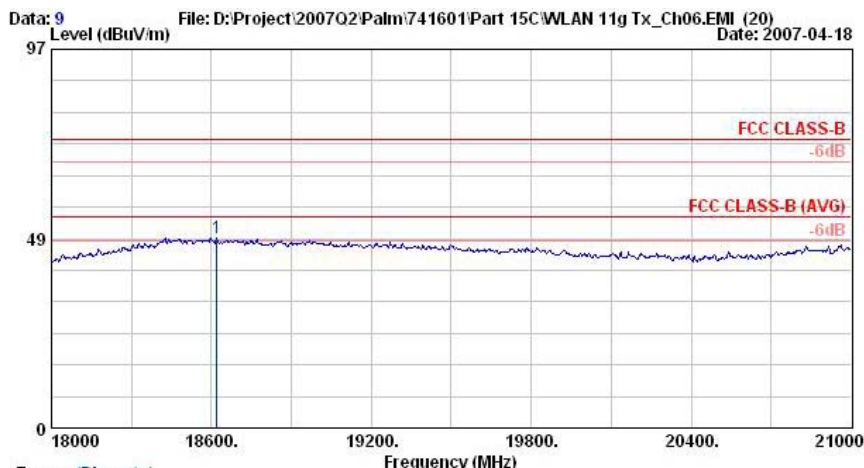




# FCC/IC TEST REPORT

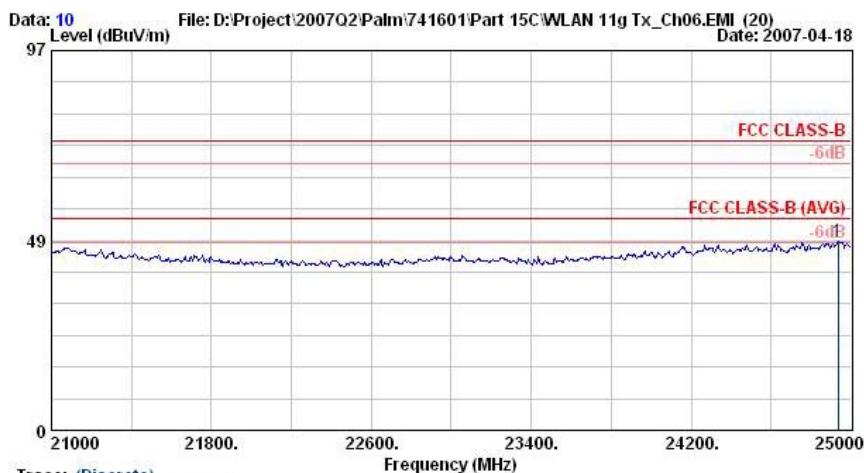
Report No. : FR741601A



Trace: (Discrete)

Condition : SHF-EHF HORN HORIZONTAL  
EUT : PDA Phone  
Power : 120Vac/60Hz  
Model : FR 741601  
Memo : WLAN 11g Tx\_Ch06;2437MHz  
Plane : H  
Adaptor : I

|     | Freq     | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table |      |
|-----|----------|--------|--------|--------|-------------|-------|--------|-------|-------|------|
|     | MHz      | dBuV/m | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    | cm    | deg  |
| 1 @ | 18621.00 | 48.84  | -25.16 | 74.00  | 44.47       | 21.21 | 19.04  | 35.88 | ---   | ---  |
|     |          |        |        |        |             |       |        |       |       | Peak |



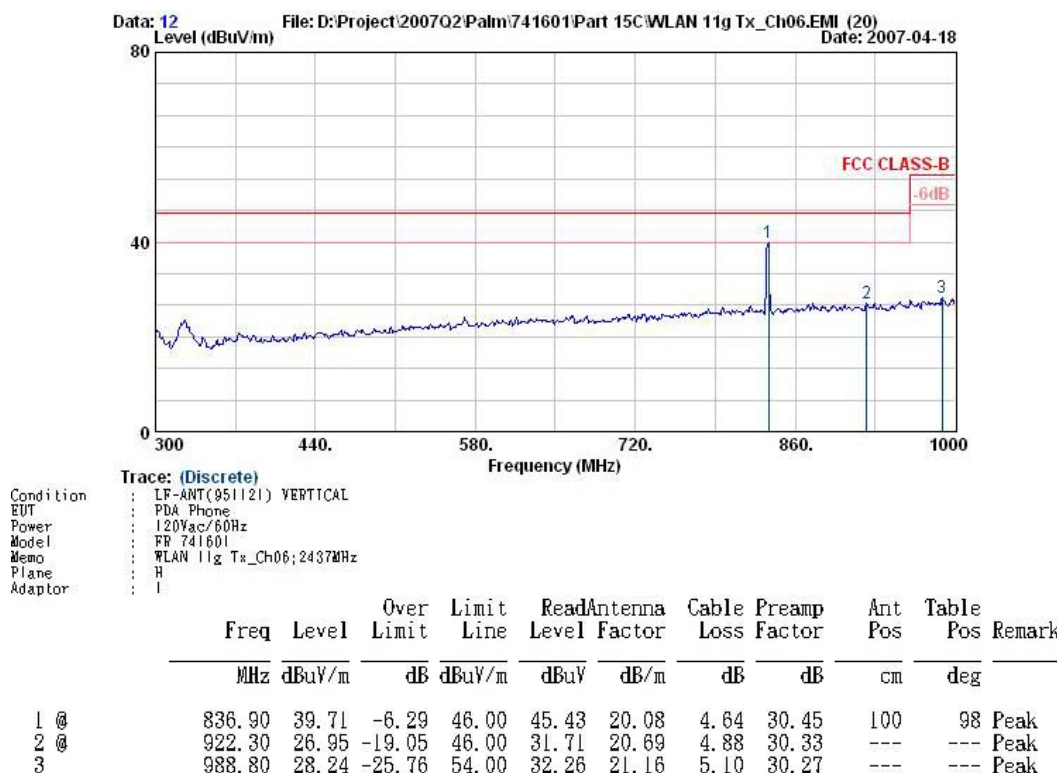
Trace: (Discrete)

Condition : SHF-EHF HORN HORIZONTAL  
EUT : PDA Phone  
Power : 120Vac/60Hz  
Model : FR 741601  
Memo : WLAN 11g Tx\_Ch06;2437MHz  
Plane : H  
Adaptor : I

|   | Freq     | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table |      |
|---|----------|--------|--------|--------|-------------|-------|--------|-------|-------|------|
|   | Hz       | dBuV/m | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    | cm    | deg  |
| 1 | 24936.00 | 48.37  | -25.63 | 74.00  | 46.44       | 21.83 | 18.64  | 38.53 | ---   | ---  |
|   |          |        |        |        |             |       |        |       |       | Peak |



Polarization : Vertical

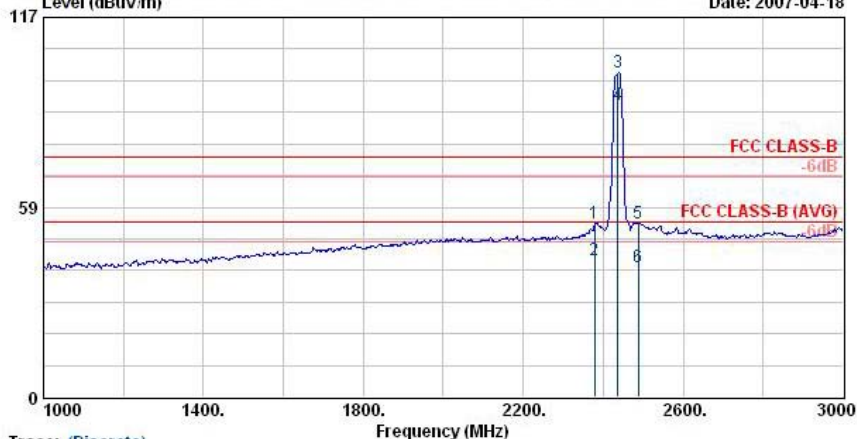
**The test that passed at minimum margin was marked by the frame in the following table.**



# FCC/IC TEST REPORT

Report No. : FR741601A

Data: 13 File: D:\Project\2007Q2\Palm\741601\Part 15C\WLAN 11g Tx\_Ch06.EMI (20) Date: 2007-04-18  
Level (dBuV/m)

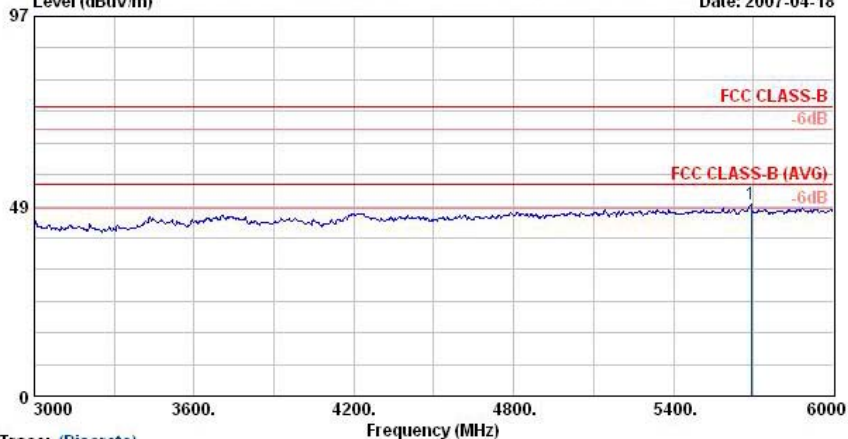


Condition : HF-ANT-060410 VERTICAL  
EUT : PDA Phone  
Power : 120Vac/60Hz  
Model : FR 741601  
Memo : WLAN 11g Tx\_Ch06;2437MHz  
Plane : H  
Adaptor : I

|     | Freq    | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table |            |
|-----|---------|--------|--------|--------|-------------|-------|--------|-------|-------|------------|
|     | MHz     | dBuV/m | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    | cm    | deg        |
| 1 @ | 2378.00 | 53.52  | -20.48 | 74.00  | 54.95       | 30.25 | 3.75   | 35.44 | 100   | 0 Peak     |
| 2 @ | 2378.00 | 42.36  | -11.64 | 54.00  | 43.80       | 30.25 | 3.75   | 35.44 | 104   | 89 Average |
| 3 @ | 2437.00 | 100.03 |        |        | 101.41      | 30.28 | 3.82   | 35.47 | 100   | 0 Peak     |
| 4 @ | 2437.00 | 89.98  |        |        | 91.36       | 30.28 | 3.82   | 35.47 | 104   | 89 Average |
| 5 @ | 2488.00 | 53.45  | -20.55 | 74.00  | 54.80       | 30.30 | 3.86   | 35.51 | 100   | 0 Peak     |
| 6 @ | 2488.00 | 40.23  | -13.77 | 54.00  | 41.58       | 30.30 | 3.86   | 35.51 | 104   | 89 Average |

Remark: #3 and #4 Fundamental Signal

Data: 14 File: D:\Project\2007Q2\Palm\741601\Part 15C\WLAN 11g Tx\_Ch06.EMI (20) Date: 2007-04-18  
Level (dBuV/m)



Condition : HF-ANT-060410 VERTICAL  
EUT : PDA Phone  
Power : 120Vac/60Hz  
Model : FR 741601  
Memo : WLAN 11g Tx\_Ch06;2437MHz  
Plane : H  
Adaptor : I

|     | Freq    | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table |     |
|-----|---------|--------|--------|--------|-------------|-------|--------|-------|-------|-----|
|     | MHz     | dBuV/m | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    | cm    | deg |
| 1 @ | 5691.00 | 48.89  | -25.11 | 74.00  | 44.08       | 33.79 | 6.90   | 35.88 | ---   | --- |

SPORTON International Inc.

TEL : 886-2-2696-2468

FAX : 886-2-2696-2255

FCC ID : O8F-715

IC ID : 3905A-715

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Report Issued Date : Jun. 20, 2007

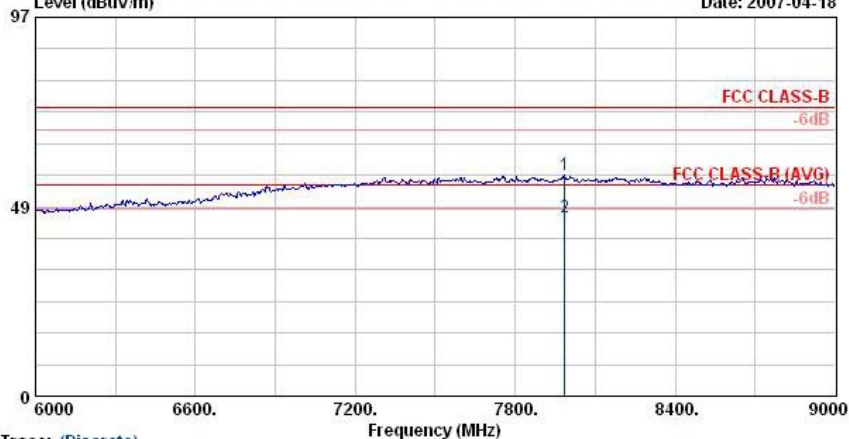
Report Version : Rev. 01



# FCC/IC TEST REPORT

Report No. : FR741601A

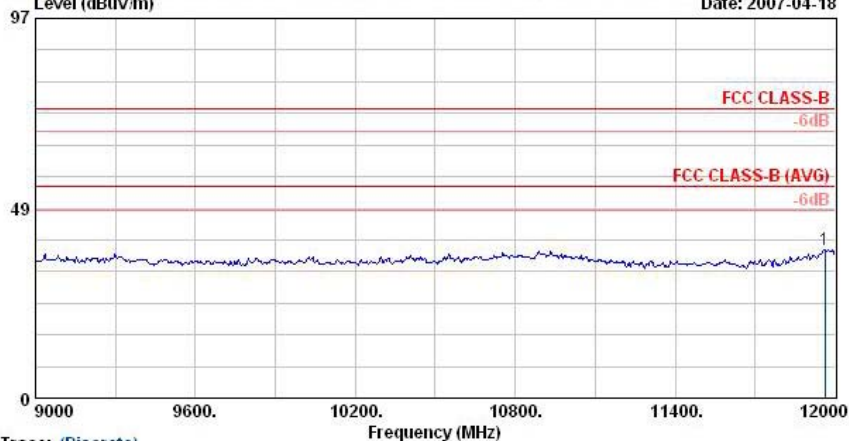
Data: 15 File: D:\Project\2007Q2\Palm\741601\Part 15C\WLAN 11g Tx\_Ch06.EMI (20) Date: 2007-04-18  
Level (dBuV/m)



Trace: (Discrete)  
Condition : HF-ANT-060410 VERTICAL  
EUT : PDA Phone  
Power : 120Vac/60Hz  
Model : FR 741601  
Memo : WLAN 11g Tx\_Ch06; 2437MHz  
Plane : H  
Adaptor : I

|     | Freq    | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table |     |
|-----|---------|--------|--------|--------|-------------|-------|--------|-------|-------|-----|
|     | MHz     | dBuV/m | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    | cm    | deg |
| 1 @ | 7986.00 | 56.54  | -17.46 | 74.00  | 45.02       | 39.58 | 7.79   | 35.85 | ---   | --- |
| 2 @ | 7986.00 | 45.92  | -8.08  | 54.00  | 34.40       | 39.58 | 7.79   | 35.85 | 100   | 110 |

Data: 16 File: D:\Project\2007Q2\Palm\741601\Part 15C\WLAN 11g Tx\_Ch06.EMI (20) Date: 2007-04-18  
Level (dBuV/m)



Trace: (Discrete)  
Condition : HF-ANT(8-18)-060918 VERTICAL  
EUT : PDA Phone  
Power : 120Vac/60Hz  
Model : FR 741601  
Memo : WLAN 11g Tx\_Ch06; 2437MHz  
Plane : H  
Adaptor : I

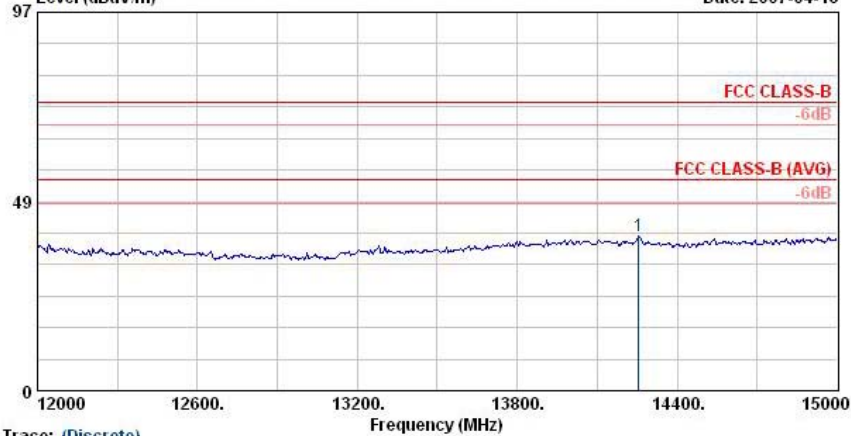
|   | Freq     | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table |     |
|---|----------|--------|--------|--------|-------------|-------|--------|-------|-------|-----|
|   | MHz      | dBuV/m | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    | cm    | deg |
| 1 | 11961.00 | 38.01  | -35.99 | 74.00  | 73.73       | -9.78 | 10.61  | 36.56 | ---   | --- |



# FCC/IC TEST REPORT

Report No. : FR741601A

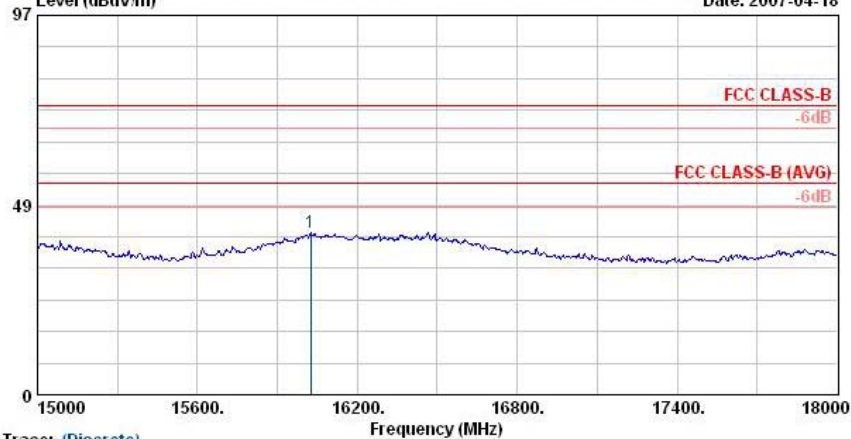
Data: 17 File: D:\Project\2007Q2\Palm\741601\Part 15C\WLAN 11g Tx\_Ch06.EMI (20) Date: 2007-04-18  
Level (dBuV/m)



Trace: (Discrete)  
Condition : HF-ANT(8-18)-060918 VERTICAL  
EUT : PDA Phone  
Power : 120Vac/60Hz  
Model : FR 741601  
Memo : WLAN 11g Tx\_Ch06;2437MHz  
Plane : H  
Adaptor : I

|   | Freq     | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table |      |
|---|----------|--------|--------|--------|-------------|-------|--------|-------|-------|------|
|   | MHz      | dBuV/m | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    | cm    | deg  |
| 1 | 14256.00 | 39.57  | -34.43 | 74.00  | 69.28       | -6.36 | 11.68  | 35.04 | ---   | ---  |
|   |          |        |        |        |             |       |        |       |       | Peak |

Data: 18 File: D:\Project\2007Q2\Palm\741601\Part 15C\WLAN 11g Tx\_Ch06.EMI (20) Date: 2007-04-18  
Level (dBuV/m)



Trace: (Discrete)  
Condition : HF-ANT(8-18)-060918 VERTICAL  
EUT : PDA Phone  
Power : 120Vac/60Hz  
Model : FR 741601  
Memo : WLAN 11g Tx\_Ch06;2437MHz  
Plane : H  
Adaptor : I

|   | Freq     | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table |      |
|---|----------|--------|--------|--------|-------------|-------|--------|-------|-------|------|
|   | MHz      | dBuV/m | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    | cm    | deg  |
| 1 | 16026.00 | 41.46  | -32.54 | 74.00  | 70.08       | -4.27 | 11.78  | 36.13 | ---   | ---  |
|   |          |        |        |        |             |       |        |       |       | Peak |

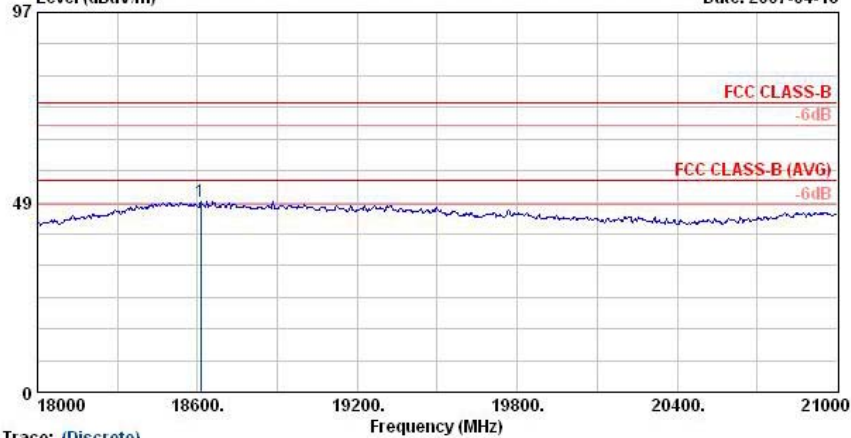




# FCC/IC TEST REPORT

Report No. : FR741601A

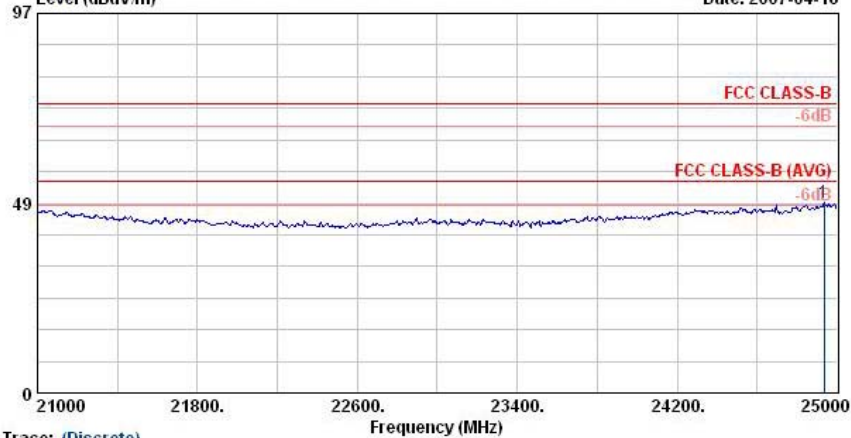
Data: 19 File: D:\Project\2007Q2\Palm\741601\Part 15C\WLAN 11g Tx\_Ch06.EMI (20) Date: 2007-04-18  
Level (dBuV/m)



Trace: (Discrete)  
Condition : SHF-EHF HORN VERTICAL  
EUT : PDA Phone  
Power : 120Vac/60Hz  
Model : FR 741601  
Memo : WLAN 11g Tx\_Ch06;2437MHz  
Plane : H  
Adaptor : I

|     | Freq     | Level  | Over<br>Limit | Limit<br>Line | ReadAntenna<br>Level Factor | Cable<br>Loss | Preamp<br>Factor | Ant<br>Pos | Table<br>Pos | Remark |      |
|-----|----------|--------|---------------|---------------|-----------------------------|---------------|------------------|------------|--------------|--------|------|
|     | MHz      | dBuV/m | dB            | dBuV/m        | dBuV                        | dB/m          | dB               | dB         | cm           | deg    |      |
| 1 @ | 18612.00 | 48.64  | -25.36        | 74.00         | 44.29                       | 21.19         | 19.04            | 35.88      | ---          | ---    | Peak |

Data: 20 File: D:\Project\2007Q2\Palm\741601\Part 15C\WLAN 11g Tx\_Ch06.EMI (20) Date: 2007-04-18  
Level (dBuV/m)



Trace: (Discrete)  
Condition : SHF-EHF HORN VERTICAL  
EUT : PDA Phone  
Power : 120Vac/60Hz  
Model : FR 741601  
Memo : WLAN 11g Tx\_Ch06;2437MHz  
Plane : H  
Adaptor : I

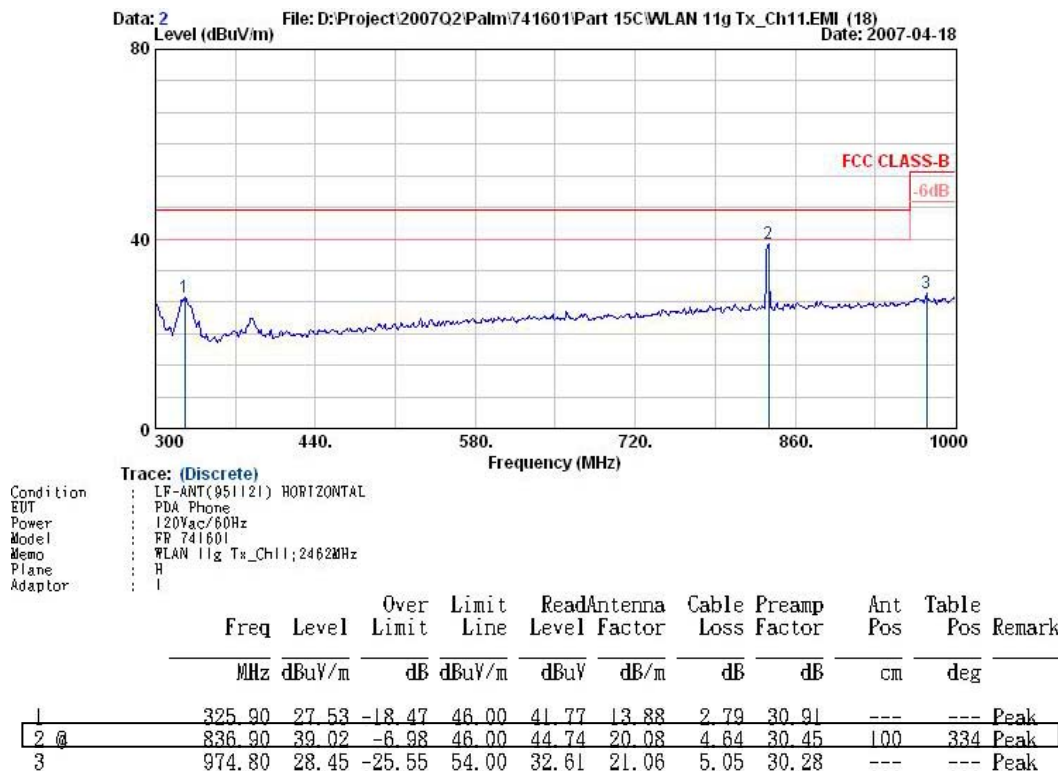
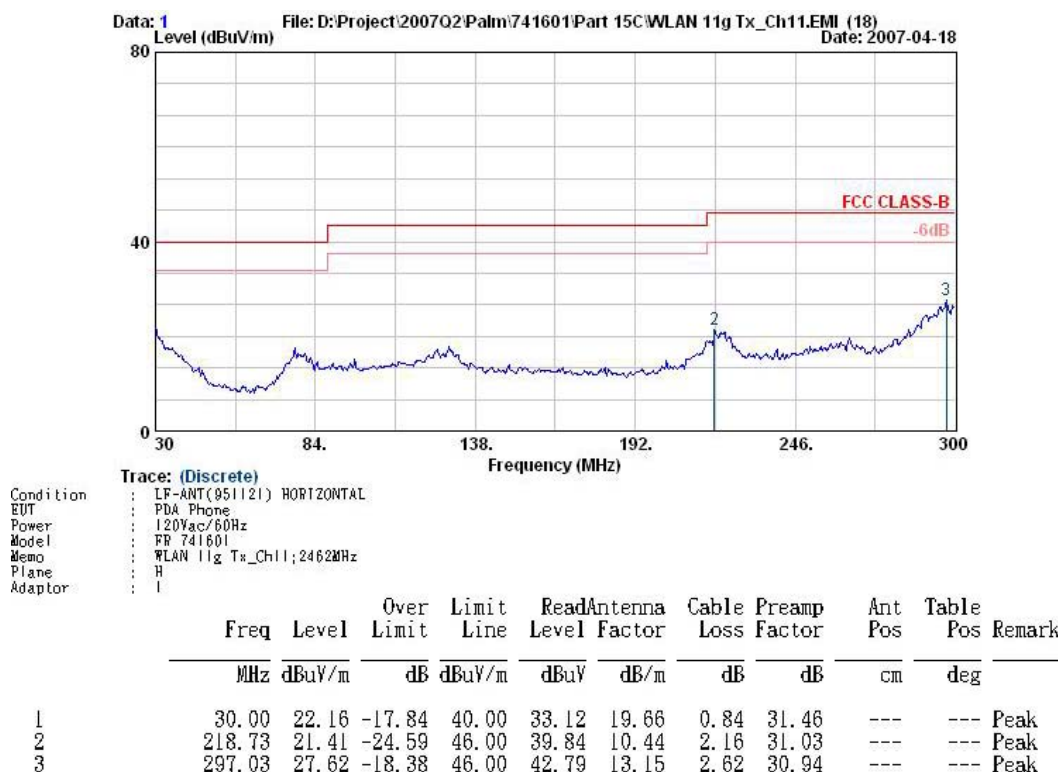
|     | Freq     | Level  | Over<br>Limit | Limit<br>Line | ReadAntenna<br>Level Factor | Cable<br>Loss | Preamp<br>Factor | Ant<br>Pos | Table<br>Pos | Remark |      |
|-----|----------|--------|---------------|---------------|-----------------------------|---------------|------------------|------------|--------------|--------|------|
|     | Hz       | dBuV/m | dB            | dBuV/m        | dBuV                        | dB/m          | dB               | dB         | cm           | deg    |      |
| 1 @ | 24936.00 | 48.62  | -25.38        | 74.00         | 46.69                       | 21.83         | 18.64            | 38.53      | ---          | ---    | Peak |

Remark: There is no more obvious spurious emission except the listings above.



- Test Mode : Mode 6
- Polarization : Horizontal

The test that passed at minimum margin was marked by the frame in the following table.

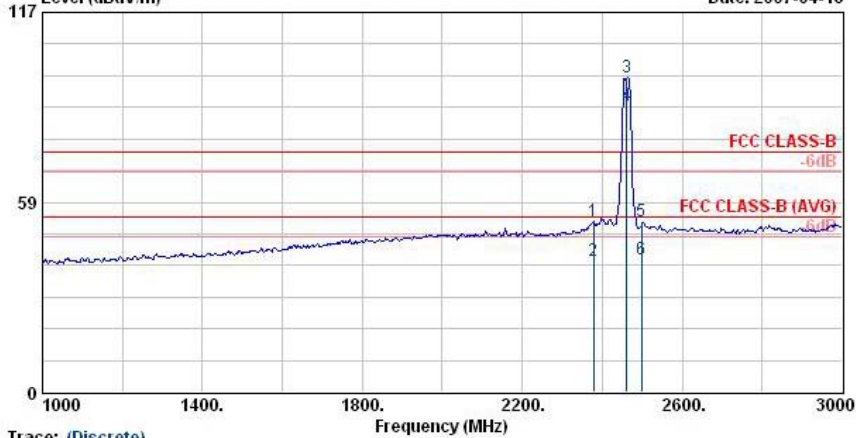




# FCC/IC TEST REPORT

Report No. : FR741601A

Data: 3 File: D:\Project\2007Q2\Palm\741601\Part 15C\WLAN 11g Tx\_Ch11.EMI (18) Date: 2007-04-18  
Level (dBuV/m)

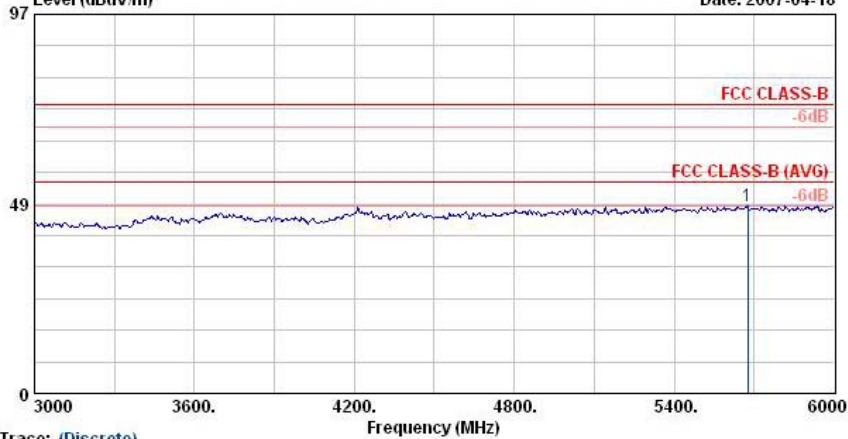


Trace: (Discrete)  
Condition : HF-ANT-060410 HORIZONTAL  
EUT : PDA Phone  
Power : 120Vac/60Hz  
Model : FR 741601  
Memo : WLAN 11g Tx\_Ch11;2462MHz  
Plane : H  
Adaptor : I

|     | Freq    | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table |             |
|-----|---------|--------|--------|--------|-------------|-------|--------|-------|-------|-------------|
|     | MHz     | dBuV/m | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    | cm    | deg         |
| 1   | 2378.00 | 52.60  | -21.40 | 74.00  | 54.03       | 30.25 | 3.75   | 35.44 | 100   | 0 Peak      |
| 2   | 2378.00 | 40.39  | -13.61 | 54.00  | 41.83       | 30.25 | 3.75   | 35.44 | 105   | 227 Average |
| 3 @ | 2462.00 | 96.98  |        |        | 98.35       | 30.29 | 3.84   | 35.49 | 100   | 0 Peak      |
| 4 @ | 2462.00 | 88.10  |        |        | 89.47       | 30.29 | 3.84   | 35.49 | 105   | 227 Average |
| 5   | 2498.96 | 52.75  | -21.25 | 74.00  | 54.11       | 30.29 | 3.86   | 35.51 | 100   | 0 Peak      |
| 6   | 2498.96 | 41.10  | -12.90 | 54.00  | 42.45       | 30.30 | 3.88   | 35.53 | 105   | 227 Average |

Remark: #3 and #4 Fundamental Signal

Data: 4 File: D:\Project\2007Q2\Palm\741601\Part 15C\WLAN 11g Tx\_Ch11.EMI (18) Date: 2007-04-18  
Level (dBuV/m)



Trace: (Discrete)  
Condition : HF-ANT-060410 HORIZONTAL  
EUT : PDA Phone  
Power : 120Vac/60Hz  
Model : FR 741601  
Memo : WLAN 11g Tx\_Ch11;2462MHz  
Plane : H  
Adaptor : I

|   | Freq    | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table |          |
|---|---------|--------|--------|--------|-------------|-------|--------|-------|-------|----------|
|   | MHz     | dBuV/m | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    | cm    | deg      |
| 1 | 5676.00 | 47.97  | -26.03 | 74.00  | 43.20       | 33.77 | 6.89   | 35.90 | ---   | --- Peak |

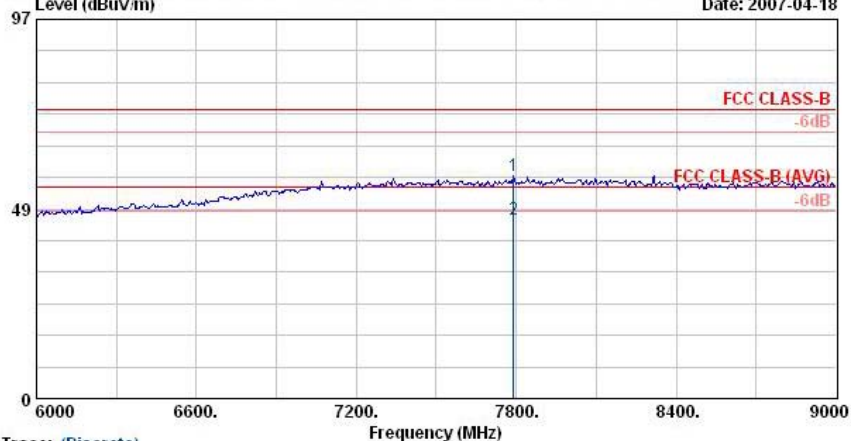




# FCC/IC TEST REPORT

Report No. : FR741601A

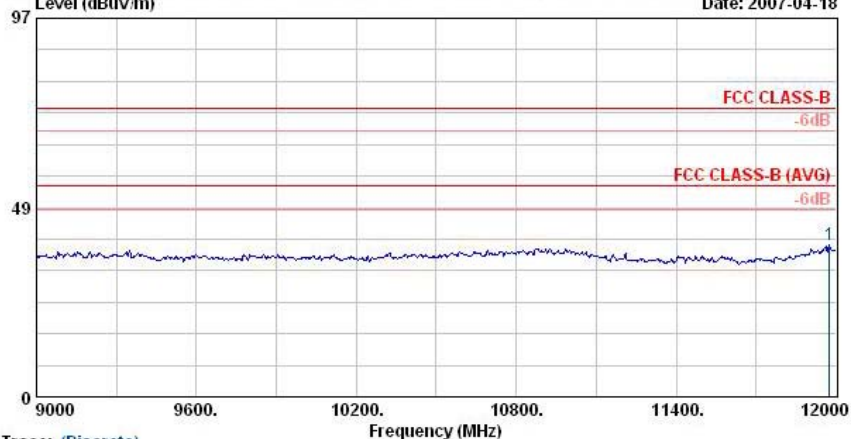
Data: 5 File: D:\Project\2007Q2\Palm\741601\Part 15C\WLAN 11g Tx\_Ch11.EMI (18) Date: 2007-04-18



Trace: (Discrete)  
Condition : HF-ANT-060410 HORIZONTAL  
EUT : PDA Phone  
Power : 120Vac/60Hz  
Model : FR 741601  
Memo : WLAN 11g Tx\_Ch11;2462MHz  
Plane : H  
Adaptor : I

|     | Freq    | Level  | Over   | Limit  | ReadAntenna | Cable Preamp | Ant  | Table |         |
|-----|---------|--------|--------|--------|-------------|--------------|------|-------|---------|
|     | MHz     | dBuV/m | dB     | dBuV/m | Level       | Loss         | Pos  | Pos   | Remark  |
|     |         |        |        |        | Factor      | Factor       | cm   | deg   |         |
| 1   | 7791.00 | 56.87  | -17.13 | 74.00  | 45.79       | 39.30        | 7.71 | 35.94 | Peak    |
| 2 @ | 7791.00 | 45.87  | -8.13  | 54.00  | 34.80       | 39.30        | 7.71 | 35.94 | Average |

Data: 6 File: D:\Project\2007Q2\Palm\741601\Part 15C\WLAN 11g Tx\_Ch11.EMI (18) Date: 2007-04-18



Trace: (Discrete)  
Condition : HF-ANT(8-18)-060918 HORIZONTAL  
EUT : PDA Phone  
Power : 120Vac/60Hz  
Model : FR 741601  
Memo : WLAN 11g Tx\_Ch11;2462MHz  
Plane : H  
Adaptor : I

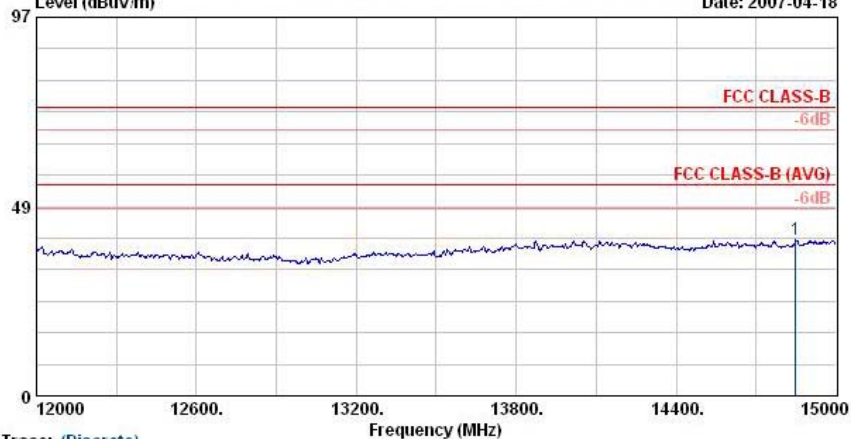
|   | Freq     | Level  | Over   | Limit  | ReadAntenna | Cable Preamp | Ant   | Table |        |
|---|----------|--------|--------|--------|-------------|--------------|-------|-------|--------|
|   | MHz      | dBuV/m | dB     | dBuV/m | Level       | Loss         | Pos   | Pos   | Remark |
|   |          |        |        |        | Factor      | Factor       | cm    | deg   |        |
| 1 | 11976.00 | 39.06  | -34.94 | 74.00  | 74.68       | -9.69        | 10.63 | 36.56 | Peak   |



# FCC/IC TEST REPORT

Report No. : FR741601A

Data: 7 File: D:\Project\2007Q2\Palm\741601\Part 15C\WLAN 11g Tx\_Ch11.EMI (18) Date: 2007-04-18

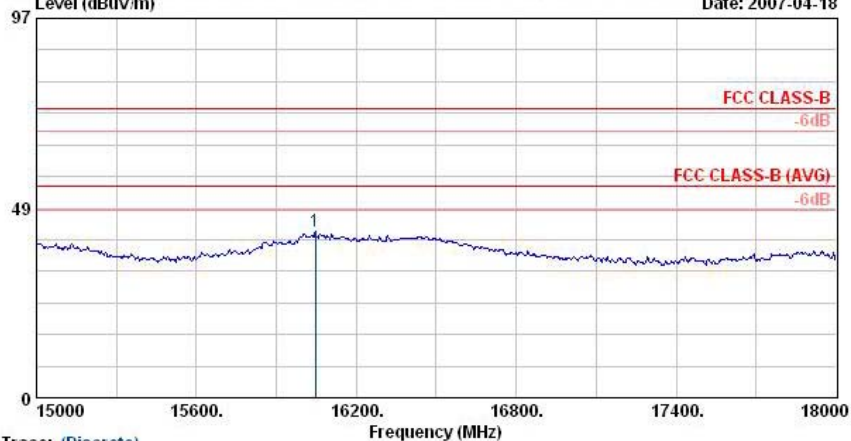


Trace: (Discrete)  
Condition : HF-ANT(8-18)-060918 HORIZONTAL  
EUT : PDA Phone  
Power : 120Vac/60Hz  
Model : FR 741601  
Memo : WLAN 11g Tx\_Ch11;2462MHz  
Plane : H  
Adaptor : I

|   | Freq     | Level  | Over   | Limit  | ReadAntenna | Cable  | Preamp | Ant    | Table |     |
|---|----------|--------|--------|--------|-------------|--------|--------|--------|-------|-----|
|   | MHz      | dBuV/m | Limit  | Line   | Level       | Factor | Loss   | Factor | Pos   | Pos |
|   |          |        | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB     | cm    | deg |
| 1 | 14847.00 | 39.96  | -34.04 | 74.00  | 70.75       | -6.32  | 11.40  | 35.87  | ---   | --- |

Peak

Data: 8 File: D:\Project\2007Q2\Palm\741601\Part 15C\WLAN 11g Tx\_Ch11.EMI (18) Date: 2007-04-18



Trace: (Discrete)  
Condition : HF-ANT(8-18)-060918 HORIZONTAL  
EUT : PDA Phone  
Power : 120Vac/60Hz  
Model : FR 741601  
Memo : WLAN 11g Tx\_Ch11;2462MHz  
Plane : H  
Adaptor : I

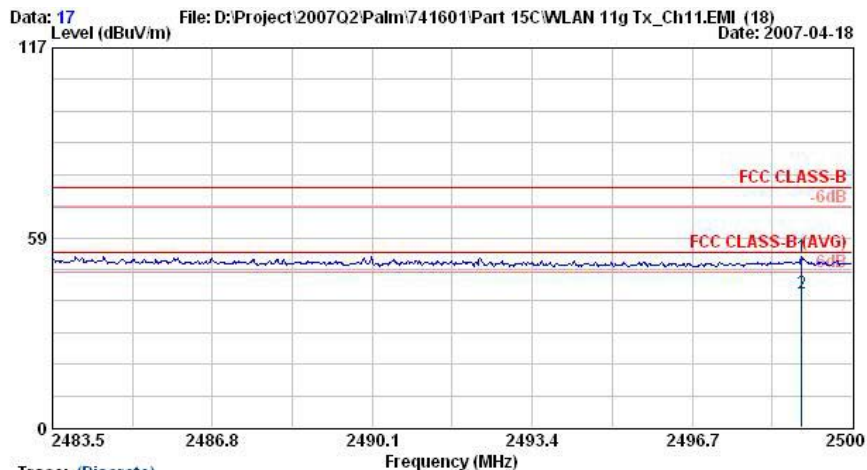
|   | Freq     | Level  | Over   | Limit  | ReadAntenna | Cable  | Preamp | Ant    | Table |     |
|---|----------|--------|--------|--------|-------------|--------|--------|--------|-------|-----|
|   | MHz      | dBuV/m | Limit  | Line   | Level       | Factor | Loss   | Factor | Pos   | Pos |
|   |          |        | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB     | cm    | deg |
| 1 | 16047.00 | 42.57  | -31.43 | 74.00  | 71.14       | -4.52  | 11.78  | 35.83  | ---   | --- |

Peak



# FCC/IC TEST REPORT

Report No. : FR741601A



Trace: (Discrete)

Condition : HF-ANT-060410 HORIZONTAL

EUT : PDA Phone

Power : 120Vac/60Hz

Model : FR 741601

Memo : WLAN 11g Tx\_Ch11; 2462MHz

Plane : H

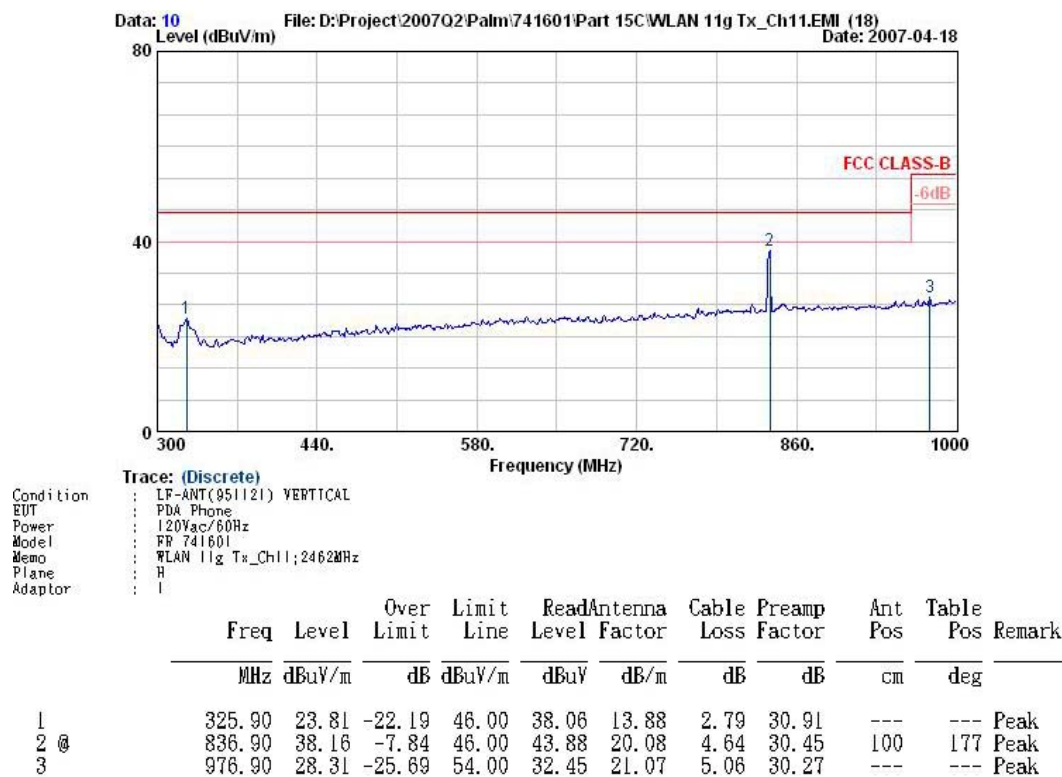
Adaptor : I

| Antenna |         |        | Over   | Limit  | ReadAntenna | Cable  | Preamp | Ant    | Table | Remark |         |
|---------|---------|--------|--------|--------|-------------|--------|--------|--------|-------|--------|---------|
|         | Freq    | Level  | Limit  | Line   | Level       | Factor | Loss   | Factor | Pos   |        | Pos     |
|         | MHz     | dBuV/m | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB     | cm    |        | deg     |
| 1       | 2498.96 | 52.75  | -21.25 | 74.00  | 54.10       | 30.30  | 3.88   | 35.53  | 100   | 0      | Peak    |
| 2       | 2498.96 | 41.10  | -12.90 | 54.00  | 42.45       | 30.30  | 3.88   | 35.53  | 105   | 227    | Average |



- Polarization : Vertical

■ The test that passed at minimum margin was marked by the frame in the following table.

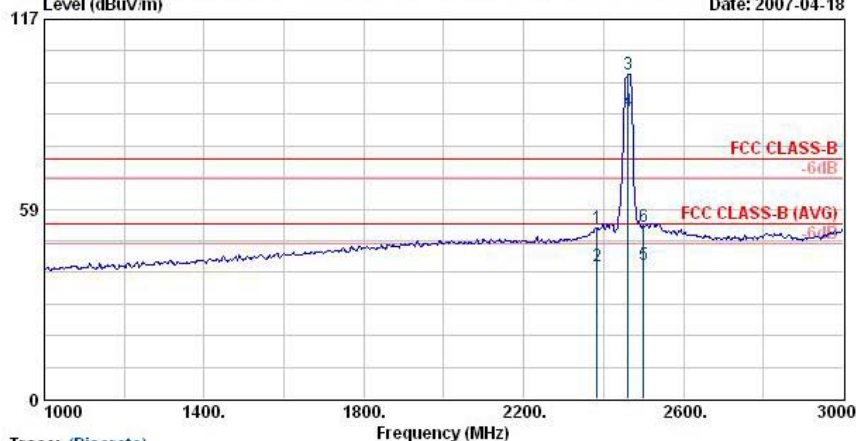




# FCC/IC TEST REPORT

Report No. : FR741601A

Data: 11 File: D:\Project\2007Q2\Palm\741601\Part 15C\WLAN 11g Tx\_Ch11.EMI (18) Date: 2007-04-18

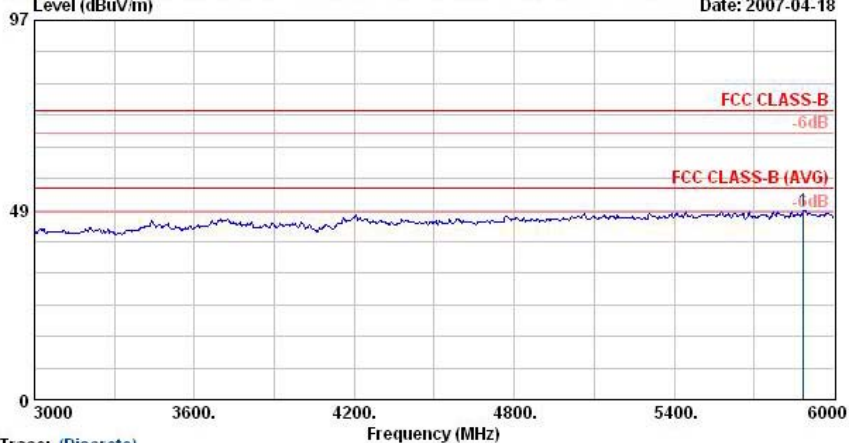


Trace: (Discrete)  
Condition : HF-ANT-060410 VERTICAL  
EUT : PDA Phone  
Power : 120Vac/60Hz  
Model : FR 741601  
Memo : WLAN 11g Tx\_Ch11; 2462MHz  
Plane : H  
Adaptor : I

|     | Freq    | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table |            |
|-----|---------|--------|--------|--------|-------------|-------|--------|-------|-------|------------|
|     | MHz     | dBuV/m | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    | cm    | deg        |
| 1   | 2384.00 | 52.74  | -21.26 | 74.00  | 54.17       | 30.25 | 3.75   | 35.44 | 100   | 0 Peak     |
| 2   | 2384.00 | 40.70  | -13.30 | 54.00  | 42.14       | 30.25 | 3.75   | 35.44 | 104   | 84 Average |
| 3 @ | 2462.00 | 100.24 |        |        | 101.61      | 30.29 | 3.84   | 35.49 | 100   | 0 Peak     |
| 4 @ | 2462.00 | 88.69  |        |        | 90.06       | 30.29 | 3.84   | 35.49 | 104   | 84 Average |
| 5   | 2499.54 | 41.26  | -12.74 | 54.00  | 42.62       | 30.29 | 3.86   | 35.51 | 104   | 84 Average |
| 6   | 2499.54 | 53.05  | -20.95 | 74.00  | 54.40       | 30.30 | 3.86   | 35.51 | 100   | 0 Peak     |

Remark: #3 and #4 Fundamental Signal

Data: 12 File: D:\Project\2007Q2\Palm\741601\Part 15C\WLAN 11g Tx\_Ch11.EMI (18) Date: 2007-04-18



Trace: (Discrete)  
Condition : HF-ANT-060410 VERTICAL  
EUT : PDA Phone  
Power : 120Vac/60Hz  
Model : FR 741601  
Memo : WLAN 11g Tx\_Ch11; 2462MHz  
Plane : H  
Adaptor : I

|   | Freq    | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table |          |
|---|---------|--------|--------|--------|-------------|-------|--------|-------|-------|----------|
|   | MHz     | dBuV/m | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    | cm    | deg      |
| 1 | 5886.00 | 48.49  | -25.51 | 74.00  | 43.33       | 33.98 | 6.92   | 35.75 | ---   | --- Peak |

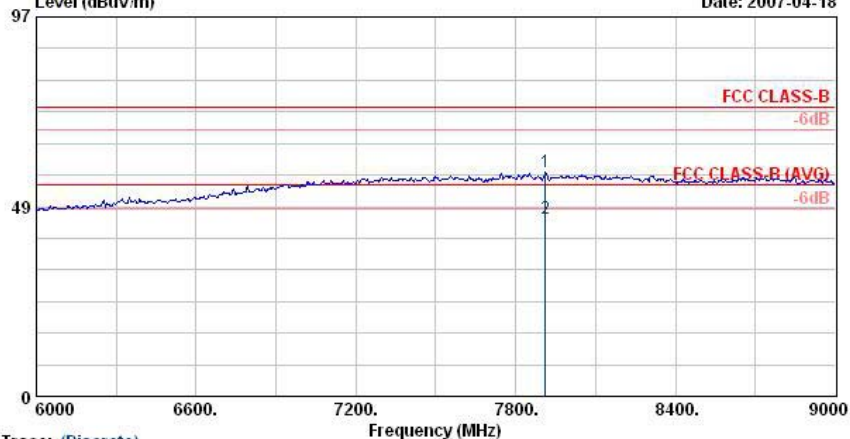




# FCC/IC TEST REPORT

Report No. : FR741601A

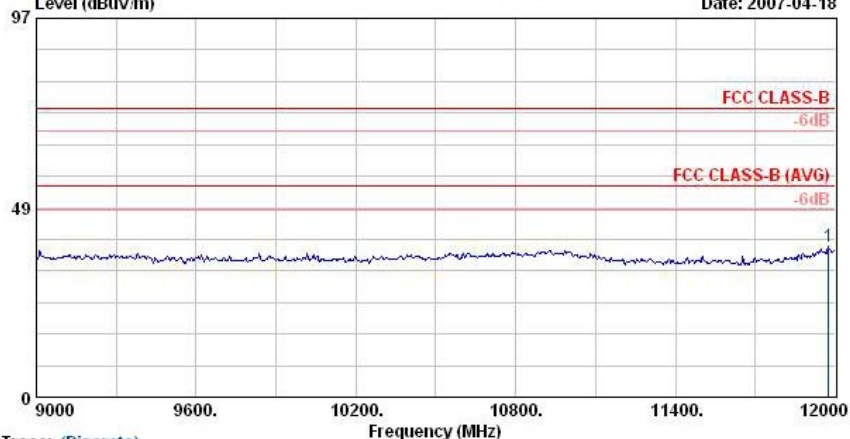
Data: 13 File: D:\Project\2007Q2\Palm\741601\Part 15C\WLAN 11g Tx\_Ch11.EMI (18) Date: 2007-04-18



Trace: (Discrete)  
Condition : HF-ANT-060410 VERTICAL  
EUT : PDA Phone  
Power : 120Vac/60Hz  
Model : FR 741601  
Memo : WLAN 11g Tx\_Ch11;2462MHz  
Plane : H  
Adaptor : I

|     | Freq    | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table |     |
|-----|---------|--------|--------|--------|-------------|-------|--------|-------|-------|-----|
|     | MHz     | dBuV/m | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    | cm    | deg |
| 1   | 7911.00 | 57.19  | -16.81 | 74.00  | 45.82       | 39.48 | 7.76   | 35.88 | ---   | --- |
| 2 @ | 7911.00 | 45.57  | -8.43  | 54.00  | 34.20       | 39.48 | 7.76   | 35.88 | 100   | 330 |

Data: 14 File: D:\Project\2007Q2\Palm\741601\Part 15C\WLAN 11g Tx\_Ch11.EMI (18) Date: 2007-04-18



Trace: (Discrete)  
Condition : HF-ANT(8-16)-060918 VERTICAL  
EUT : PDA Phone  
Power : 120Vac/60Hz  
Model : FR 741601  
Memo : WLAN 11g Tx\_Ch11;2462MHz  
Plane : H  
Adaptor : I

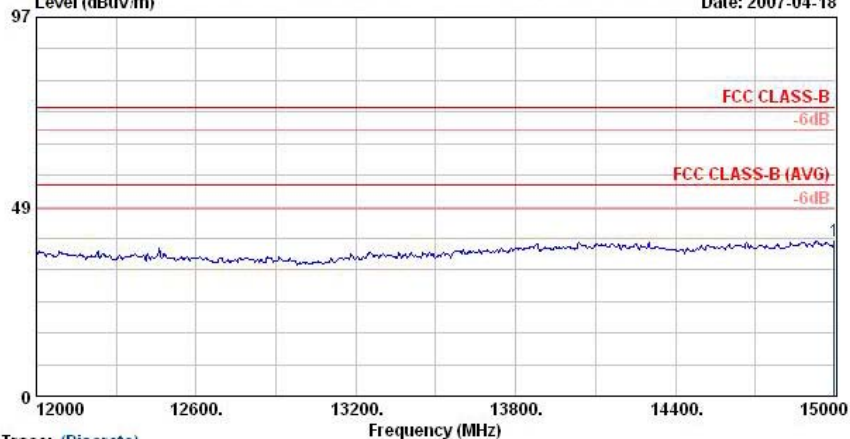
|   | Freq     | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table |     |
|---|----------|--------|--------|--------|-------------|-------|--------|-------|-------|-----|
|   | MHz      | dBuV/m | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    | cm    | deg |
| 1 | 11976.00 | 38.76  | -35.24 | 74.00  | 74.37       | -9.69 | 10.63  | 36.56 | ---   | --- |



# FCC/IC TEST REPORT

Report No. : FR741601A

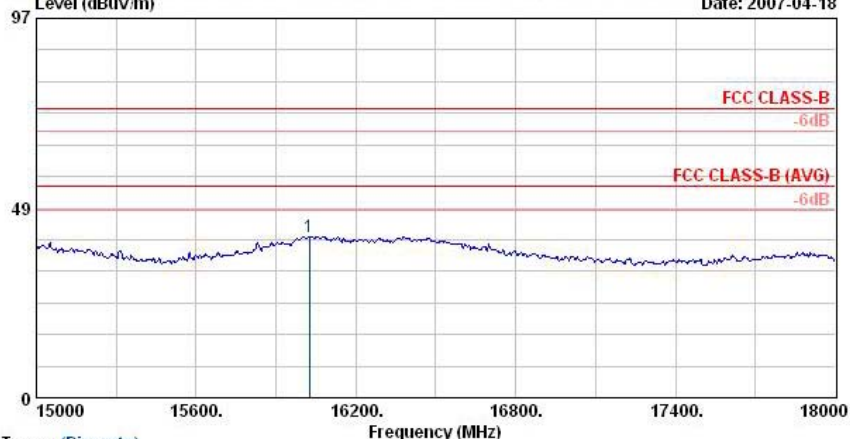
Data: 15 File: D:\Project\2007Q2\Palm\741601\Part 15C\WLAN 11g Tx\_Ch11.EMI (18) Date: 2007-04-18



Trace: (Discrete)  
: HF-ANT(8-18)-060918 VERTICAL  
: PDA Phone  
: 120Vac/60Hz  
: FR 741601  
: WLAN 11g Tx\_Ch11;2462MHz  
: H  
: I

|   | Freq     | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table |      |
|---|----------|--------|--------|--------|-------------|-------|--------|-------|-------|------|
|   | MHz      | dBuV/m | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    | cm    | deg  |
| 1 | 14997.00 | 39.71  | -34.29 | 74.00  | 70.69       | -6.20 | 11.25  | 36.03 | ---   | ---  |
|   |          |        |        |        |             |       |        |       |       | Peak |

Data: 16 File: D:\Project\2007Q2\Palm\741601\Part 15C\WLAN 11g Tx\_Ch11.EMI (18) Date: 2007-04-18



Trace: (Discrete)  
: HF-ANT(8-18)-060918 VERTICAL  
: PDA Phone  
: 120Vac/60Hz  
: FR 741601  
: WLAN 11g Tx\_Ch11;2462MHz  
: H  
: I

|   | Freq     | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table |      |
|---|----------|--------|--------|--------|-------------|-------|--------|-------|-------|------|
|   | MHz      | dBuV/m | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    | cm    | deg  |
| 1 | 16026.00 | 41.28  | -32.72 | 74.00  | 69.90       | -4.27 | 11.78  | 36.13 | ---   | ---  |
|   |          |        |        |        |             |       |        |       |       | Peak |

SPORTON International Inc.

TEL : 886-2-2696-2468

FAX : 886-2-2696-2255

FCC ID : O8F-715

IC ID: 3905A-715

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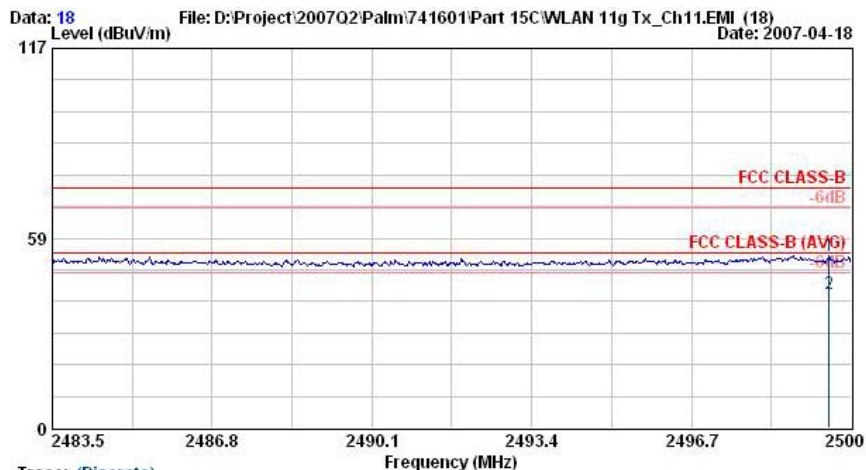
Report Issued Date : Jun. 20, 2007

Report Version : Rev. 01



# FCC/IC TEST REPORT

Report No. : FR741601A



Trace: (Discrete)  
Condition : HF-ANT-060410 VERTICAL  
EUT : PDA Phone  
Power : 120Vac/60Hz  
Model : FR 741601  
Memo : WLAN 11g Tx\_Ch11; 2462MHz  
Plane : H  
Adaptor : I

|     | Freq    | Level  | Over   | Limit  | ReadAntenna | Cable  | Preamp | Ant    | Table |            |
|-----|---------|--------|--------|--------|-------------|--------|--------|--------|-------|------------|
|     | MHz     | dBuV/m | Limit  | Line   | Level       | Factor | Loss   | Factor | Pos   | Pos Remark |
|     |         |        | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB     | cm    | deg        |
| 1   | 2499.54 | 53.05  | -20.95 | 74.00  | 54.40       | 30.30  | 3.88   | 35.53  | 100   | 0 Peak     |
| 2 @ | 2499.54 | 41.26  | -12.74 | 54.00  | 42.61       | 30.30  | 3.88   | 35.53  | 104   | 84 Average |

Remark: There is no more obvious spurious emission except the listings above.



## **5.8 Antenna Requirements**

### **5.8.1 Standard Applicable**

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no other antenna except assembled by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

### **5.8.2 Antenna Connected Construction**

The antennas used in this product are PIFA antenna for WLAN and BT without antenna connector and it is considered to meet antenna requirement of FCC.

### **5.8.3 Antenna Gain**

The antenna gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

## 6 List of Measuring Equipments Used

| Instrument                           | Manufacturer      | Model No.      | Serial No.    | Characteristics | Calibration Date | Due Date      | Remark                |
|--------------------------------------|-------------------|----------------|---------------|-----------------|------------------|---------------|-----------------------|
| EMC Receiver                         | R&S               | ESCS 30        | 100359        | 9kHz – 2.75GHz  | Mar. 01, 2007    | Mar. 01, 2008 | Conduction (CO04-HY)  |
| LISN                                 | MessTec           | NNB-2/16Z      | 99079         | 9kHz – 30MHz    | Mar. 31, 2007    | Mar. 31, 2008 | Conduction (CO04-HY)  |
| LISN (Support Unit)                  | EMCO              | 3810/2NM       | 9703-1839     | 9kHz – 30MHz    | Mar. 22, 2007    | Mar. 22, 2008 | Conduction (CO04-HY)  |
| RF Cable-CON                         | UTIFLEX           | 3102-26886-4   | CB049         | 9kHz – 30MHz    | Apr. 20, 2007    | Apr. 20, 2008 | Conduction (CO04-HY)  |
| ISN                                  | SCHAFFNER         | ISN T400       | 21653         | 9kHz – 30MHz    | Mar. 27, 2007    | Mar. 27, 2008 | Conduction (CO04-HY)  |
| EMI Filter                           | LINDGREN          | LRE-2030       | 2651          | < 450 Hz        | N/A              | N/A           | Conduction (CO04-HY)  |
| Isolation Transformer                | Erika Fiedler OHG | D-65396 Walluf | 58            | 45MHz-2.15GHz   | N/A              | N/A           | Conduction (CO04-HY)  |
| Spectrum analyzer                    | Agilent           | E4408B         | MY44211030    | 9KHz-26.5GHz    | Oct. 05, 2006    | Oct. 04, 2007 | Radiation (03CH06-HY) |
| EMI Test Receiver                    | R&S               | ESCS30         | 100356        | 9KHz-2.75GHz    | Jul. 13, 2006    | Jul. 12, 2007 | Radiation (03CH06-HY) |
| Bilog Antenna                        | SCHAFFNER         | CBL6112B       | 2885          | 30MHz -2GHz     | Nov. 20, 2006    | Nov. 19, 2007 | Radiation (03CH06-HY) |
| Double Ridge Horn Antenna            | Com-Power         | AH118          | 10094         | 1G~18G          | Dec. 26, 2006    | Dec. 25, 2007 | Radiation (03CH06-HY) |
| SHF-EHF Horn                         | SCHWARZBECK       | BBHA 9170      | 9170-249      | 14G - 40G       | Nov. 20, 2006    | Nov. 19, 2008 | Radiation (03CH06-HY) |
| Pre Amplifier                        | Agilent           | 8449B          | 3008A01917    | 1G - 26.5G      | Nov. 15, 2006    | Nov. 14, 2007 | Radiation (03CH06-HY) |
| Pre Amplifier                        | Mini Circuits     | ZKL-2          | D092004-1     | 10~2500MHz      | Nov. 15, 2006    | Nov. 14, 2007 | Radiation (03CH06-HY) |
| Controller                           | INN-CO            | CO2000         | N/A           | N/A             | N/A              | N/A           | Radiation (03CH06-HY) |
| Turn Table                           | INN-CO            | DS2000         | 420/650/00    | 0 ~ 360 degree  | N/A              | N/A           | Radiation (03CH06-HY) |
| Antenna Mast                         | INN-CO            | MM3000         | 114/8000604/L | 1 m - 4 m       | N/A              | N/A           | Radiation (03CH06-HY) |
| Universal Radio Communication Tester | Agilent           | E5515C         | GB43460754    | CDMA2000        | Feb. 21, 2006    | Feb. 20, 2009 | Radiation (03CH06-HY) |



## 7 Uncertainty Evaluation

### Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

| Contribution                                                           | Uncertainty of $x_i$ |                          | $u(x_i)$ |
|------------------------------------------------------------------------|----------------------|--------------------------|----------|
|                                                                        | dB                   | Probability Distribution |          |
| Receiver reading                                                       | 0.10                 | Normal(k=2)              | 0.05     |
| Cable loss                                                             | 0.10                 | Normal(k=2)              | 0.05     |
| AMN insertion loss                                                     | 2.50                 | Rectangular              | 0.63     |
| Receiver Spec                                                          | 1.50                 | Rectangular              | 0.43     |
| Site imperfection                                                      | 1.39                 | Rectangular              | 0.80     |
| Mismatch                                                               | +0.34/-0.35          | U-shape                  | 0.24     |
| <b>combined standard uncertainty Uc(y)</b>                             | <b>1.13</b>          |                          |          |
| <b>Measuring uncertainty for a level of confidence of 95% U=2Uc(y)</b> | <b>2.26</b>          |                          |          |

### Uncertainty of Radiated Emission Measurement (30MHz ~ 1000MHz)

| Contribution                                                           | Uncertainty of $x_i$ |                          | $u(x_i)$ |
|------------------------------------------------------------------------|----------------------|--------------------------|----------|
|                                                                        | dB                   | Probability Distribution |          |
| Receiver reading                                                       | 0.41                 | Normal(k=2)              | 0.21     |
| Antenna factor calibration                                             | 0.83                 | Normal(k=2)              | 0.42     |
| Cable loss calibration                                                 | 0.25                 | Normal(k=2)              | 0.13     |
| Pre Amplifier Gain calibration                                         | 0.27                 | Normal(k=2)              | 0.14     |
| RCV/SPA specification                                                  | 2.50                 | Rectangular              | 0.72     |
| Antenna Factor Interpolation for Frequency                             | 1.00                 | Rectangular              | 0.29     |
| Site imperfection                                                      | 1.43                 | Rectangular              | 0.83     |
| Mismatch                                                               | +0.39/-0.41          | U-shaped                 | 0.28     |
| <b>combined standard uncertainty Uc(y)</b>                             | <b>1.27</b>          |                          |          |
| <b>Measuring uncertainty for a level of confidence of 95% U=2Uc(y)</b> | <b>2.54</b>          |                          |          |

**Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)**

| Contribution                                                                                                                                  | Uncertainty of $x_i$ |                          | $u(x_i)$ | $C_i$ | $C_i * u(x_i)$ |
|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------|----------|-------|----------------|
|                                                                                                                                               | dB                   | Probability Distribution |          |       |                |
| Receiver reading                                                                                                                              | ±0.10                | Normal(k=1)              | 0.10     | 1     | 0.10           |
| Antenna factor calibration                                                                                                                    | ±1.70                | Normal(k=2)              | 0.85     | 1     | 0.85           |
| Cable loss calibration                                                                                                                        | ±0.50                | Normal(k=2)              | 0.25     | 1     | 0.25           |
| Receiver Correction                                                                                                                           | ±2.00                | Rectangular              | 1.15     | 1     | 1.15           |
| Antenna Factor Directional                                                                                                                    | ±1.50                | Rectangular              | 0.87     | 1     | 0.87           |
| Site imperfection                                                                                                                             | ±2.80                | Triangular               | 1.14     | 1     | 1.14           |
| Mismatch<br>Receiver VSWR $\Gamma_1 = 0.197$<br>Antenna VSWR $\Gamma_2 = 0.194$<br>Uncertainty = $20\log(1 - \Gamma_1 * \Gamma_2 * \Gamma_3)$ | +0.34/-0.35          | U-shaped                 | 0.244    | 1     | 0.244          |
| <b>Combined standard uncertainty <math>U_c(y)</math></b>                                                                                      | <b>2.36</b>          |                          |          |       |                |
| <b>Measuring uncertainty for a level of confidence of 95% <math>U = 2U_c(y)</math></b>                                                        | <b>4.72</b>          |                          |          |       |                |