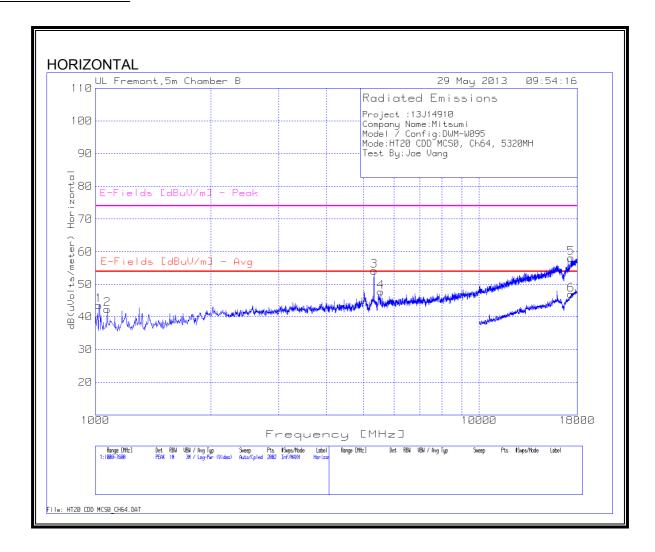
# **MID CHANNEL 60 DATA**

| Marker No.     | 0 - 7600MHz<br>Test        | Meter                      | Detector | T345 Ant                     | T145 Preamp              | Cable Factor         | T159 BRF [dB] | dB(uVolts/m          | E-Fields                   | Average                | E-Fields                    | Peak Margin         | Height [cm] | Polarity |
|----------------|----------------------------|----------------------------|----------|------------------------------|--------------------------|----------------------|---------------|----------------------|----------------------------|------------------------|-----------------------------|---------------------|-------------|----------|
|                | Frequency<br>(MHz)         | Reading<br>(dBuV)          |          | Factor<br>[dB/m]             | Gain [dB]                | [dB]                 |               | eter)                | [dBuV/m] - Avg             | Margin (dB)            | [dBuV/m] - Peak             | (dB)                |             |          |
| 1              | 1023.088                   | 46.76                      | PK       | 27.5                         | -36                      | 3.2                  | 0             | 41.46                | 53.97                      | -12.51                 | 74                          | -32.54              | 100         | Horz     |
| 3              | 1075.862<br>5004.198       | 46.54<br>41.28             | PK<br>PK | 27.8<br>34.6                 | -35.9<br>-34.9           | 7.2                  | 0.7           | 41.64<br>48.88       | 53.97<br>53.97             | -12.33<br>-5.09        | 74<br>74                    | -32.36<br>-25.12    | 100<br>200  | Horz     |
| *4             | 5307.646                   | 46.31                      | PK       | 34.9                         | -34.9                    | 7.4                  | 0.9           | 54.61                | -                          | - 3.03                 |                             | -20122              | 200         | Horz     |
| 5              | 5522.039                   | 39.55                      | PK       | 34.9                         | -34.9                    | 7.6                  | 0.7           | 47.85                | 527                        | 14 /                   | 68.2                        | -20.35              | 100         | Horz     |
| ertical 1000 - | 7600MHz                    | l                          |          |                              |                          |                      |               |                      |                            |                        |                             |                     |             |          |
| Marker No.     | Test<br>Frequency<br>(MHz) | Meter<br>Reading<br>(dBuV) | Detector | T345 Ant<br>Factor<br>[dB/m] | T145 Preamp<br>Gain [dB] | Cable Factor<br>[dB] | T159 BRF [dB] | dB(uVolts/m<br>eter) | E-Fields<br>[dBuV/m] - Avg | Average<br>Margin (dB) | E-Fields<br>[dBuV/m] - Peak | Peak Margin<br>(dB) | Height [cm] | Polarity |
| 6              | 1000                       | 49.64                      | PK       | 27.4                         | -36                      | 3.2                  | 0             | 44.24                | 53.97                      | -9.73                  | 74                          | -29.76              | 200         | Vert     |
| 7              | 5000.9<br>5301.049         | 41.04<br>47.61             | PK       | 34.6                         | -34.9<br>-34.9           | 7.2                  | 0.7           | 48.64                | 53.97                      | -5.33                  | 74                          | -25.36              | 200         | Vert     |
| *8             | 3301.049                   | 47.01                      | PK       | 34.9                         | -54.9                    | 7.4                  | 0.9           | 55.91                |                            | -                      |                             | -                   | 200         | Vert     |
|                | 0 - 18000MHz               |                            |          |                              |                          |                      |               |                      |                            |                        |                             |                     |             |          |
| Marker No.     | Test<br>Frequency<br>(MHz) | Meter<br>Reading<br>(dBuV) | Detector | T345 Ant<br>Factor<br>[dB/m] | T145 Preamp<br>Gain [dB] | Cable Factor<br>[dB] | T192 BRF [dB] | dB(uVolts/m<br>eter) | E-Fields<br>[dBuV/m] - Avg | Average<br>Margin (dB) | E-Fields<br>[dBuV/m] - Peak | Peak Margin<br>(dB) | Height [cm] | Polarity |
| 9              | 10600.098                  | 36.63                      | PK       | 38.2                         | -34.3                    | 10.8                 | 0.4           | 51.73                |                            |                        | 74                          | -22.27              | 100         | Horz     |
| 10             | 15905.447                  | 34.68                      | PK       | 41.5                         | -32.9                    | 13.7                 | 0.2           | 57.18                | 140                        | -                      | 74                          | -16.82              | 100         | Horz     |
| ertical 7600 - | 18000MHz                   |                            |          |                              |                          |                      |               |                      |                            |                        |                             |                     |             |          |
| Marker No.     | Test<br>Frequency<br>(MHz) | Meter<br>Reading<br>(dBuV) | Detector | T345 Ant<br>Factor<br>[dB/m] | T145 Preamp<br>Gain [dB] | Cable Factor<br>[dB] | T192 BRF [dB] | dB(uVolts/m<br>eter) | E-Fields<br>[dBuV/m] - Avg | Average<br>Margin (dB) | E-Fields<br>[dBuV/m] - Peak | Peak Margin<br>(dB) | Height [cm] | Polarity |
| 13             | 10604.098                  | 36.74                      | PK       | 38.2                         | -34.3                    | 10.8                 | 0.4           | 51.84                | 928                        |                        | 74                          | -22.16              | 100         | Vert     |
| 14             | 15900.25                   | 37.24                      | PK       | 41.5                         | -32.9                    | 13.7                 | 0.2           | 59.74                | -                          |                        | 74                          | -14.26              | 200         | Vert     |
| 11             | (MHz)                      | Reading<br>(dBuV)          | PK       | [dB/m]                       | -34.3                    | [dB]                 | 0.4           | 40.95                | [dBuV/m] - Avg             | -                      | [dBuV/m] - Peak             | (dB)                | 200         | Horz     |
| 12             | 15901.049                  | 26.39                      | PK       | 41.5                         | -32.9                    | 13.7                 | 0.2           | 48.89                | 53.97                      | -5.08                  | 74                          | -25.11              | 100         | Horz     |
| ertical 10000  |                            |                            |          |                              |                          |                      |               |                      |                            |                        |                             |                     |             |          |
| Marker No.     | Test<br>Frequency<br>(MHz) | Meter<br>Reading<br>(dBuV) | Detector | T345 Ant<br>Factor<br>[dB/m] | Gain [dB]                | [dB]                 | T192 BRF [dB] | dB(uVolts/m<br>eter) | E-Fields<br>[dBuV/m] - Avg | Average<br>Margin (dB) | E-Fields<br>[dBuV/m] - Peak | Peak Margin<br>(dB) | Height [cm] | Polarity |
| 15             | 10599.7                    | 27.05                      | PK       | 38.2                         | -34.3                    | 10.8                 | 0.4           | 42.15                |                            | -                      | 68.2                        | -26.05              | 200         | Vert     |
| 16             | 15901.049                  | 28.96                      | PK       | 41.5                         | -32.9                    | 13.7                 | 0.2           | 51.46                | 53.97                      | -2.51                  | 74                          | -22.54              | 200         | Vert     |
| Iorizontal 100 |                            |                            |          |                              |                          |                      |               |                      |                            |                        |                             |                     |             |          |
| Marker No.     | Test<br>Frequency<br>(MHz) | Meter<br>Reading<br>(dBuV) | Detector | T345 Ant<br>Factor<br>[dB/m] | T145 Preamp<br>Gain [dB] | [dB]                 | T159 BRF [dB] | eter)                | E-Fields<br>[dBuV/m] - Avg | Average<br>Margin (dB) | E-Fields<br>[dBuV/m] - Peak | Peak Margin<br>(dB) | Height [cm] | Polarity |
| 3              | 5000.32                    | 27.61                      | Av       | 34.6                         | -34.9                    | 7.2                  | 0.6           | 36.11                | 53.97                      | -17.86                 |                             |                     | 158         | Horz     |
| ertical 1000 - |                            |                            |          |                              |                          |                      |               |                      |                            |                        |                             |                     |             |          |
| Marker No.     | Test<br>Frequency<br>(MHz) | Meter<br>Reading<br>(dBuV) | Detector | T345 Ant<br>Factor<br>[dB/m] | T145 Preamp<br>Gain [dB] | [dB]                 | T159 BRF [dB] | eter)                | E-Fields<br>[dBuV/m] - Avg | Average<br>Margin (dB) | E-Fields<br>[dBuV/m] - Peak | Peak Margin<br>(dB) | Height [cm] | Polarity |
| 7              | 4998.25                    | 33.3                       | Av       | 34.6                         | -34.9                    | 7.2                  | 0.6           | 40.8                 | 53.97                      | -13.17                 |                             | -                   | 140         | Vert     |
|                | 00 - 18000MHz              |                            |          |                              |                          |                      |               |                      |                            |                        |                             |                     |             |          |
| Marker No.     | Test<br>Frequency<br>(MHz) | Meter<br>Reading<br>(dBuV) | Detector | T345 Ant<br>Factor<br>[dB/m] | Gain [dB]                | [dB]                 | T192 BRF [dB] | eter)                | E-Fields<br>[dBuV/m] - Avg | Average<br>Margin (dB) | E-Fields<br>[dBuV/m] - Peak | Peak Margin<br>(dB) |             | Polarity |
| 12             | 15902.75                   | 26.77                      | Av       | 41.5                         | -32.9                    | 13.7                 | 0.2           | 49.27                | 53.97                      | -4.7                   | -                           | -                   | 158         | Horz     |
| ertical 10000  | - 18000MHz                 |                            |          |                              |                          |                      |               |                      |                            |                        |                             |                     |             |          |
| Marker No.     | Test<br>Frequency          | Meter<br>Reading           | Detector | T345 Ant<br>Factor<br>[dB/m] | T145 Preamp<br>Gain [dB] | Cable Factor<br>[dB] | T192 BRF [dB] | dB(uVolts/m<br>eter) | E-Fields<br>[dBuV/m] - Avg | Average<br>Margin (dB) | E-Fields<br>[dBuV/m] - Peak | Peak Margin<br>(dB) | Height [cm] | Polarity |
|                | (MHz)                      | (dBuV)                     |          | [do/iii]                     |                          |                      |               |                      |                            |                        |                             |                     |             |          |

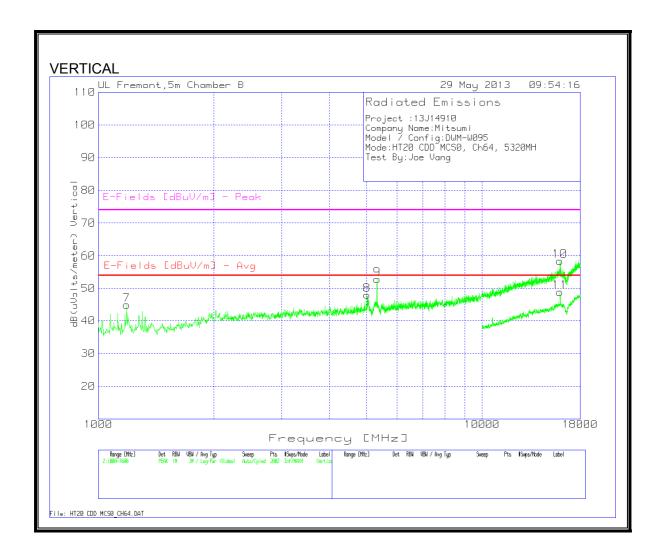
Page 312 of 429

### **HIGH CHANNEL GRAPH**



47173 BENICIA STREET, FREMONT, CA 94538, USA

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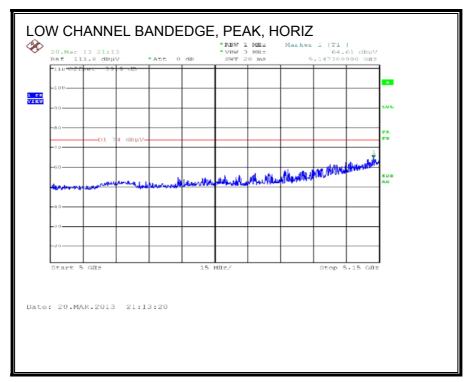


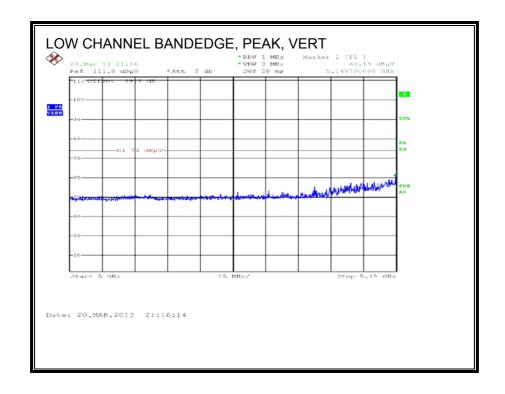
# **HIGH CHANNEL 64 DATA**

| Marker No.                 |                                   |                  |          |                    |                          |                      |               |                      |                        |                        |                        |                     |               |          |
|----------------------------|-----------------------------------|------------------|----------|--------------------|--------------------------|----------------------|---------------|----------------------|------------------------|------------------------|------------------------|---------------------|---------------|----------|
|                            | Test                              | Meter            | Detector | T345 Ant           | T145 Preamp              |                      | T159 BRF [dB] |                      | E-Fields               | Average                | E-Fields               | Peak Margin         | Height [cm]   | Polarity |
|                            | Frequency<br>(MHz)                | (dBuV)           |          | Factor<br>[dB/m]   | Gain [dB]                | [dB]                 |               | meter)               | [dBuV/m] -<br>Avg      | Margin (dB)            | [dBuV/m] -<br>Peak     | (dB)                |               |          |
| 1                          | 1023.088                          | 48.85            | PK       | 27.5               | -36                      | 3.2                  | 0             | 43.55                | 53.97                  | -10.42                 | 74                     | -30.45              | 100           | Horz     |
| 2                          | 1075.862                          | 47.27            | PK       | 27.8               | -35.9                    | 3.2                  | 0             | 42.37                | 53.97                  | -11.6                  | 74                     | -31.63              | 100           | Horz     |
| *3                         | 5327.436                          | 45.83            | PK       | 34.9               | -34.9                    | 7.5                  | 0.9           | 54.23                | -                      | -                      |                        |                     | 100           | Horz     |
| 4                          | 5541.829                          | 39.57            | PK       | 35                 | -34.9                    | 7.6                  | 0.4           | 47.67                | -                      | -                      | 68.2                   | -20.53              | 100           | Horz     |
| ertical 1000               | - 7600MHz                         |                  |          |                    |                          |                      |               | 2.                   |                        |                        |                        |                     |               |          |
| Marker No.                 | Test                              | Meter            | Detector | T345 Ant           | T145 Preamp              | Cable Factor         | T159 BRF [dB] | dB(uVolts/           | E-Fields               | Average                | E-Fields               | Peak Margin         | Height [cm]   | Polarity |
|                            | Frequency                         | Reading          |          | Factor             | Gain [dB]                | [dB]                 |               | meter)               | [dBuV/m] -             | Margin (dB)            | [dBuV/m] -             | (dB)                |               |          |
| 7                          | (MHz)                             | (dBuV)           | PK       | [dB/m]             | -35.7                    | 3.4                  | -             | 44.87                | Avg                    | 0.1                    | Peak                   | -29.13              | 200           | Vert     |
| 8                          | 1184.708<br>5017.391              | 48.87            | PK<br>PK | 28.3<br>34.6       | -35.7                    | 7.2                  | 0.9           | 48.04                | 53.97<br>53.97         | -9.1<br>-5.93          | 74<br>74               | -29.13<br>-25.96    | 200           | Vert     |
| *9                         | 5320.84                           | 44.44            | PK       | 34.9               | -34.9                    | 7.5                  | 0.9           | 52.84                | -                      |                        | -                      | -23.50              | 200           | Vert     |
|                            |                                   |                  |          |                    |                          |                      |               |                      |                        |                        |                        |                     |               |          |
|                            | 00 - 18000MHz                     |                  |          |                    |                          |                      | ween non r    | tet at h             |                        |                        |                        |                     |               |          |
| Marker No.                 | Test<br>Frequency                 | Meter<br>Reading | Detector | T345 Ant<br>Factor | T145 Preamp<br>Gain [dB] | Cable Factor<br>[dB] | T159 BRF [dB] | dB(uVolts/<br>meter) | E-Fields<br>[dBuV/m] - | Average<br>Margin (dB) | E-Fields<br>[dBuV/m] - | Peak Margin<br>(dB) | Height [cm]   | Polarity |
|                            | (MHz)                             | (dBuV)           |          | [dB/m]             | Gain [ub]                | [ub]                 |               | metery               | Avg                    | margin (ub)            | Peak                   | (ub)                |               |          |
| 5                          | 17339.93                          | 33.25            | PK       | 41.7               | -31.6                    | 14.5                 | 0.3           | 58.15                | -                      |                        | 68.2                   | -10.05              | 100           | Horz     |
|                            |                                   |                  |          |                    |                          |                      |               |                      |                        |                        |                        |                     |               |          |
| ertical 7600<br>Marker No. | - 18000MHz<br>Test                | Meter            | Detector | T345 Ant           | T145 Preamp              | Cable Easter         | T159 BRF [dB] | dB(uVolts/           | E-Fields               | Average                | E-Fields               | Peak Margin         | Height [cm]   | Polarity |
| widikei ivo.               | Frequency                         | Reading          | Detector | Factor             | Gain [dB]                | [dB]                 | 1139 BKF [UB] | meter)               | [dBuV/m] -             | Margin (dB)            | [dBuV/m] -             | (dB)                | neight [chil] | Polarity |
|                            | (MHz)                             | (dBuV)           |          | [dB/m]             |                          | ,                    |               | ,                    | Avg                    |                        | Peak                   | (==)                |               |          |
| 10                         | 15957.421                         | 35.67            | PK       | 41.5               | -32.9                    | 13.7                 | 0.4           | 58.37                | -                      | -                      | 74                     | -15.63              | 200           | Vert     |
|                            | 000 - 18000MHz                    |                  |          |                    |                          |                      |               |                      |                        |                        |                        |                     |               |          |
| orizontai 10<br>Marker No. | Test                              | Meter            | Detector | T345 Ant           | T145 Preamp              | Cable Factor         | T159 BRF [dB] | dB(uVolts/           | E-Fields               | Average                | E-Fields               | Peak Margin         | Height [cm]   | Polarity |
| marker 140.                | Frequency                         | Reading          | Detector | Factor             | Gain [dB]                | [dB]                 | 1133 Dia [ab] | meter)               | [dBuV/m] -             | Margin (dB)            | [dBuV/m] -             | (dB)                | neight [em]   | rolanty  |
|                            | (MHz)                             | (dBuV)           |          | [dB/m]             |                          |                      |               |                      | Avg                    |                        | Peak                   |                     |               |          |
| 6                          | 17356.322                         | 21.89            | PK       | 41.8               | -31.6                    | 14.5                 | 0.3           | 46.89                | -                      | -                      | 68.2                   | -21.31              | 100           | Horz     |
| ertical 10000              | - 18000MHz                        |                  |          |                    |                          |                      |               |                      |                        |                        |                        |                     |               |          |
| Marker No.                 | Test                              | Meter            | Detector | T345 Ant           | T145 Preamp              | Cable Factor         | T159 BRF [dB] | dB(uVolts/           | E-Fields               | Average                | E-Fields               | Peak Margin         | Height [cm]   | Polarity |
|                            | Frequency                         | Reading          |          | Factor             | Gain [dB]                | [dB]                 | ,,            | meter)               | [dBuV/m] -             | Margin (dB)            | [dBuV/m] -             | (dB)                |               |          |
|                            | (MHz)                             | (dBuV)           |          | [dB/m]             |                          |                      |               |                      | Avg                    |                        | Peak                   |                     |               |          |
|                            |                                   | 26.2             | PK       | 41.5               | -32.9                    | 13.7                 | 0.4           | 48.9                 | 53.97                  | -5.07                  | 74                     | -25.1               | 200           | Vert     |
| 11                         | 15957.021                         |                  |          | L                  |                          |                      |               |                      |                        |                        |                        |                     |               |          |
|                            |                                   |                  |          |                    |                          |                      |               |                      |                        |                        | 1-14-                  |                     |               |          |
|                            | 15957.021<br>0 - 18000MHz<br>Test | Meter            | Detector | T345 Ant           | T145 Preamp              | Cable Factor         | T159 BRF [dB] | dB(uVolts/           | E-Fields               | Average                | E-Fields               | Peak Margin         | Height [cm]   | Polarity |
| ertical 10000              | - 18000MHz<br>Test<br>Frequency   | Reading          | Detector | Factor             | T145 Preamp<br>Gain [dB] | Cable Factor<br>[dB] | T159 BRF [dB] | dB(uVolts/<br>meter) | [dBuV/m] -             | Average<br>Margin (dB) | [dBuV/m] -             | (dB)                | Height [cm]   | Polarity |
| ertical 10000              | - 18000MHz<br>Test                |                  | Detector |                    |                          |                      | T159 BRF [dB] |                      |                        |                        |                        |                     | Height [cm]   | Polarity |

# 9.9. 802.11n HT20 SDM MCS8 2TX MODE IN THE 5.3 GHz BAND

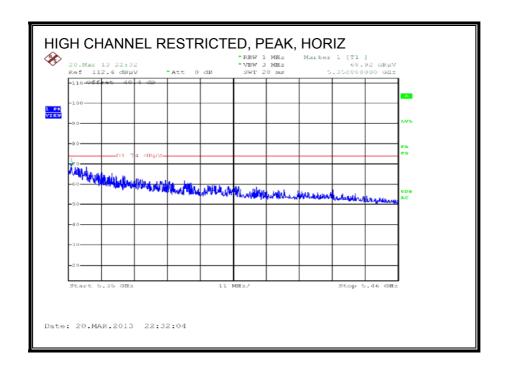
# **AUTHORIZED BANDEDGE (LOW CHANNEL)**

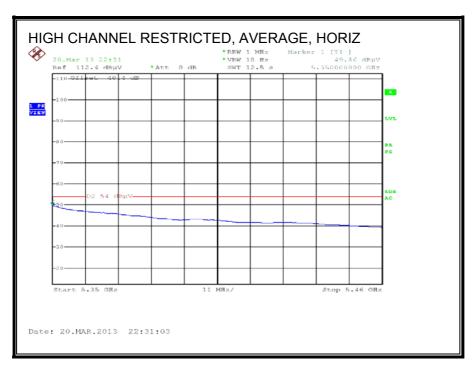


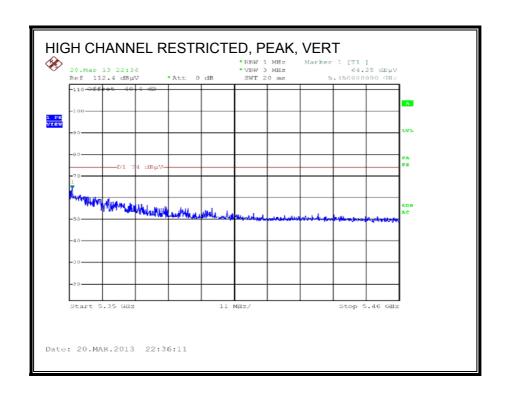


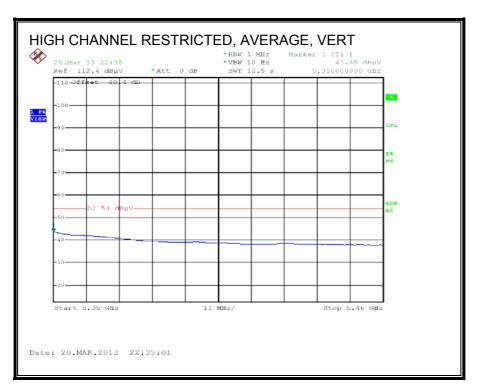
Page 316 of 429

#### **RESTRICTED BANDEDGE (HIGH CHANNEL)**

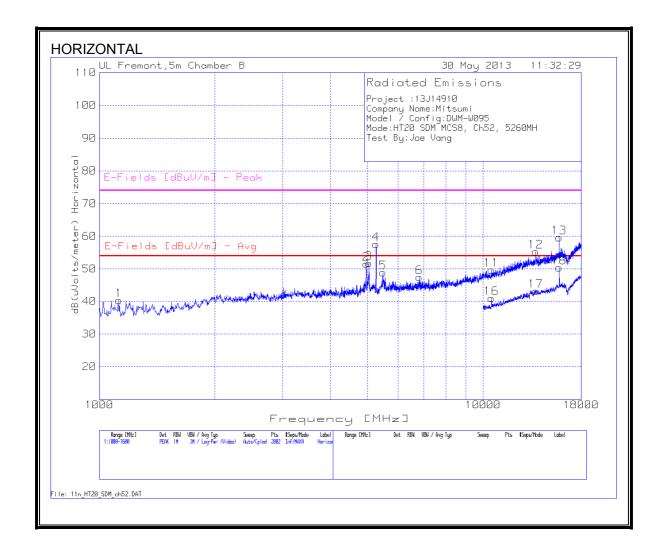


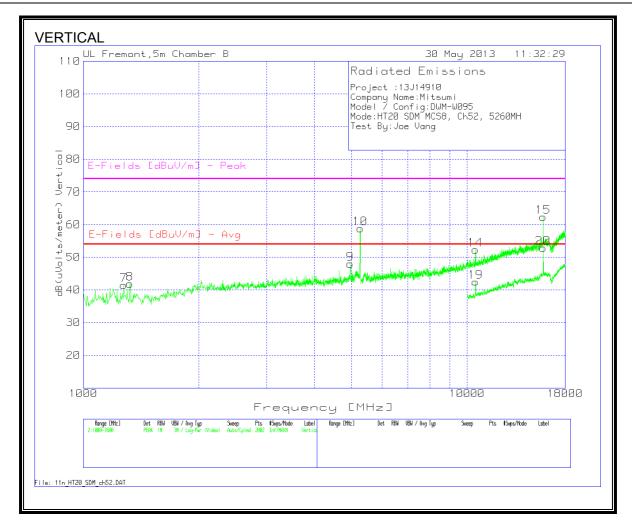






### **LOW CHANNEL GRAPH**



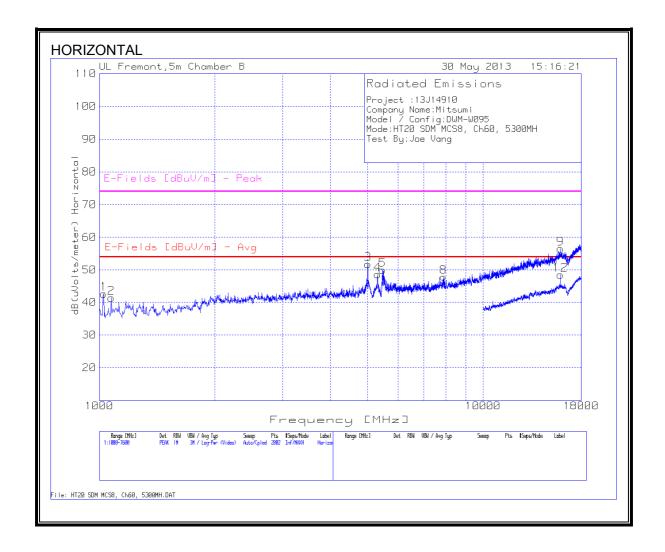


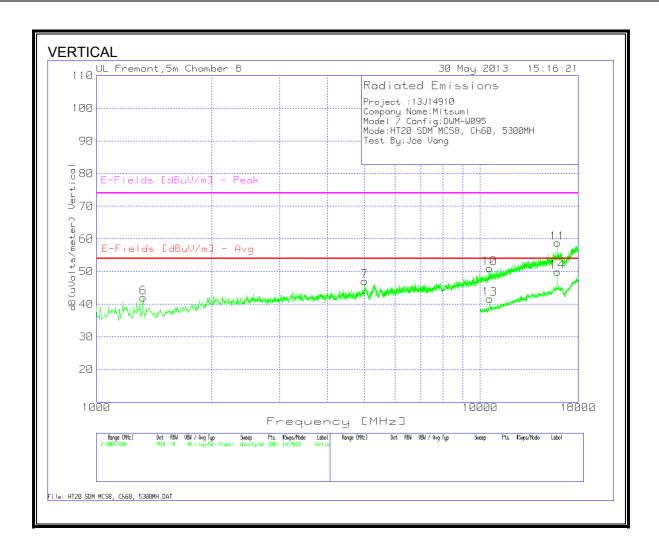
# **LOW CHANNEL 52 DATA**

| Marker No.               | Test Frequency                        | Meter                      | Detector                                | T345 Ant                     | T145 Preamp              | Cable Factor         | T159 BRF [dB] | dB(uVolts/           | E-Fields                      | Average                | E-Fields                       | Peak Margin         | Height [cm]   | Polarity         |
|--------------------------|---------------------------------------|----------------------------|---|------------------------------|--------------------------|----------------------|---------------|----------------------|-------------------------------|------------------------|--------------------------------|---------------------|---------------|------------------|
|                          | (MHz)                                 | Reading<br>(dBuV)          |   | Factor<br>[dB/m]             | Gain (dB)                | [dB]                 |               | meter)               | [dBuV/m] -<br>Avg             | Margin (dB)            | [dBuV/m] -<br>Peak             | (dB)                | 20000 100 000 |                  |
| 1                        | 1125.337                              | 44.74                      | PK                                      | 28                           | -35.8                    | 3.3                  | 0             | 40.24                | 53.97                         | -13.73                 | 74                             | -33.76              | 200           | Horz             |
| 2                        | 4961.319                              | 44.38                      | PK                                      | 34.6                         | -34.9                    | 7.2                  | 0.3           | 51.58                | 53.97                         | -2.39                  | 74                             | -22.42              | 172           | Horz             |
| 3<br>*4                  | 5043.778<br>5258.171                  | 43.94<br>49.28             | PK<br>PK                                | 34.7<br>34.9                 | -34.9<br>-34.9           | 7.2                  | 0.9           | 51.84<br>57.58       | 53.97                         | -2.13                  | 74                             | -22.16              | 172<br>172    | Horz             |
| 5                        | 5479.16                               | 40.49                      | PK                                      | 34.9                         | -34.9                    | 7.6                  | 0.9           | 48.99                | -                             |                        | 68.2                           | -19.21              | 172           | Horz             |
| 6                        | 6814.993                              | 38                         | PK                                      | 35.8                         | -35                      | 8.5                  | 0.1           | 47.4                 |                               |                        | 68.2                           | -20.8               | 200           | Horz             |
| ertical 1000 -           | 7600MHz                               |                            |   |                              |                          |                      |               |                      |                               |                        |                                |                     |               |                  |
| Marker No.               | Test Frequency                        | Meter                      | Detector                                | T345 Ant                     | T145 Preamp              |                      | T159 BRF [dB] | dB(uVolts/           | E-Fields                      | Average                | E-Fields                       | Peak Margin         | Height [cm]   | Polarity         |
|                          | (MHz)                                 | (dBuV)                     |   | Factor<br>[dB/m]             | Gain [dB]                | [dB]                 |               | meter)               | [dBuV/m] -                    | Margin (dB)            | [dBuV/m] -<br>Peak             | (dB)                |               |                  |
| 7                        | 1273.763                              | 45.12                      | PK                                      | 28.6                         | -35.6                    | 3.4                  | 0             | 41.52                | Avg<br>-                      |                        | 68.2                           | -26.68              | 100           | Vert             |
| 8                        | 1323.238                              | 45.42                      | PK                                      | 28.5                         | -35.5                    | 3.5                  | 0             | 41.92                | 53.97                         | -12.05                 | 74                             | -32.08              | 200           | Vert             |
| *10                      | 4964.618<br>5264.768                  | 40.81<br>50.53             | PK<br>PK                                | 34.6<br>34.9                 | -34.9<br>-34.9           | 7.2                  | 0.3           | 48.01<br>58.83       | 53.97                         | -5.96                  | 74                             | -25.99              | 200           | Vert<br>Vert     |
| 10                       | 3204.700                              | 50.55                      | FR                                      | 34.5                         | -34.5                    | - /                  | 0.5           | 50.05                |                               |                        |                                |                     | 200           | veit             |
|                          | 0 - 18000MHz                          |                            |   |                              | Taxaa a                  |                      |               | ter con t            |                               |                        |                                | I                   |               |                  |
| Marker No.               | Test Frequency<br>(MHz)               | Meter<br>Reading<br>(dBuV) | Detector                                | T345 Ant<br>Factor<br>[dB/m] | T145 Preamp<br>Gain [dB] | [dB]                 | T159 BRF [dB] | dB(uVolts/<br>meter) | E-Fields<br>[dBuV/m] -<br>Avg | Average<br>Margin (dB) | E-Fields<br>[dBuV/m] -<br>Peak | Peak Margin<br>(dB) | Height [cm]   | Polarity         |
| 11                       | 10515.742                             | 35.02                      | PK                                      | 38.2                         | -34.4                    | 10.7                 | 0.2           | 49.72                |                               | 2                      | 68.2                           | -18.48              | 200           | Horz             |
| 12<br>13                 | 13717.341<br>15785.907                | 35.36<br>37.4              | PK<br>PK                                | 39.1<br>41.3                 | -32<br>-32.9             | 12.5<br>13.6         | 0.4           | 55.36<br>59.6        |                               | -                      | 68.2<br>74                     | -12.84<br>-14.4     | 200<br>100    | Horz             |
| 15                       | 15785.907                             | 37.4                       | PK                                      | 41.3                         | -32.3                    | 13.0                 | 0.2           | 39.0                 |                               |                        | /4                             | -14.4               | 100           | HOIZ             |
| ertical 7600 -           |                                       |                            |   |                              | 2211111                  |                      |               |                      |                               |                        |                                |                     |               |                  |
| Marker No.               | Test Frequency<br>(MHz)               | Meter<br>Reading           | Detector                                | T345 Ant<br>Factor           | T145 Preamp<br>Gain [dB] | Cable Factor<br>[dB] | T159 BRF [dB] | dB(uVolts/<br>meter) | E-Fields<br>[dBuV/m] -        | Average<br>Margin (dB) | E-Fields<br>[dBuV/m] -         | Peak Margin<br>(dB) | Height [cm]   | Polarity         |
|                          | (WITZ)                                | (dBuV)                     |   | [dB/m]                       | Gain [ub]                | [ub]                 |               | metery               | Avg                           | Maigii (ub)            | Peak                           | (ub)                |               |                  |
| 14                       | 10520.94                              | 37.58                      | PK                                      | 38.2                         | -34.4                    | 10.7                 | 0.2           | 52.28                | -                             | -                      | 74                             | -21.72              | 200           | Vert             |
| 15                       | 15780.71                              | 40.1                       | PK                                      | 41.3                         | -32.9                    | 13.6                 | 0.2           | 62.3                 |                               | -                      | 68.2                           | -5.9                | 200           | Vert             |
| orizontal 100            | 00 - 18000MHz                         |                            |   |                              |                          |                      |               |                      |                               |                        |                                |                     |               |                  |
| Marker No.               | Test Frequency                        | Meter                      | Detector                                | T345 Ant                     | T145 Preamp              |                      | T159 BRF [dB] | dB(uVolts/           | E-Fields                      | Average                | E-Fields                       | Peak Margin         | Height [cm]   | Polarity         |
|                          | (MHz)                                 | (dBuV)                     |   | [dB/m]                       | Gain [dB]                | [dB]                 |               | meter)               | [dBuV/m] -<br>Avg             | Margin (dB)            | [dBuV/m] -<br>Peak             | (dB)                |               |                  |
| 16                       | 10519.74                              | 26.24                      | PK                                      | 38.2                         | -34.4                    | 10.7                 | 0.2           | 40.94                |                               | -                      | 68.2                           | -27.26              | 100           | Horz             |
| 17                       | 13722.139<br>15785.107                | 23.04<br>28.17             | PK<br>PK                                | 39.1<br>41.3                 | -32<br>-32.9             | 12.5<br>13.6         | 0.5           | 43.14<br>50.37       | 53.97                         | -3.6                   | 68.2<br>74                     | -25.06<br>-23.63    | 200<br>100    | Horz             |
| 10                       | 13763.107                             | 20.17                      |   | 41.5                         | -32.3                    | 13.0                 | 0.2           | 50.57                | 33.37                         | -3.0                   | 74                             | -23.03              | 100           | HOIZ             |
| ertical 10000            |                                       |                            |   |                              | T                        |                      |               |                      |                               |                        |                                | I                   |               |                  |
| Marker No.               | Test Frequency<br>(MHz)               | Meter<br>Reading<br>(dBuV) | Detector                                | T345 Ant<br>Factor<br>[dB/m] | T145 Preamp<br>Gain [dB] | Cable Factor<br>[dB] | T159 BRF [dB] | dB(uVolts/<br>meter) | E-Fields<br>[dBuV/m] -<br>Avg | Average<br>Margin (dB) | E-Fields<br>[dBuV/m] -<br>Peak | Peak Margin<br>(dB) | Height [cm]   | Polarity         |
| 19                       | 10523.738                             | 27.81                      | PK                                      | 38.2                         | -34.4                    | 10.7                 | 0.2           | 42.51                |                               |                        | 68.2                           | -25.69              | 200           | Vert             |
| 20                       | 15781,109                             | 30.66                      | PK                                      | 41.3                         | -32.9                    | 13.6                 | 0.2           | 52.86                | 53.97                         | -1.11                  | 74                             | -21.14              | 200           | Vert             |
| orizontal 100            | 0 - 7600MHz                           |                            |   |                              | -                        |                      |               |                      |                               |                        |                                |                     |               |                  |
| Marker No.               | Test Frequency<br>(MHz)               | Meter<br>Reading           | Detector                                | T345 Ant<br>Factor           | T145 Preamp<br>Gain [dB] | Cable Factor<br>[dB] | T159 BRF [dB] | dB(uVolts/<br>meter) | E-Fields<br>[dBuV/m] -        | Average<br>Margin (dB) | E-Fields<br>[dBuV/m] -         | Peak Margin<br>(dB) | Height [cm]   | Polarity         |
| 2                        | 4959.97                               | (dBuV)<br>31.74            | Av                                      | [dB/m]<br>34.6               | -34.9                    | 7.2                  | 0.3           | 38.94                | Avg<br>53.97                  | -15.03                 | Peak                           | -                   | 127           | Horz             |
| 3                        | 5040.73                               | 37.84                      | Av                                      | 34.6                         | -34.9                    | 7.2                  | 0.9           | 45.64                | 53.97                         | -8.33                  | 2                              | 21                  | 146           | Horz             |
| orizontal 100            | 00 - 18000MHz                         |                            |   |                              |                          |                      |               |                      |                               |                        |                                |                     |               |                  |
| Marker No.               | Test Frequency                        | Meter                      | Detector                                | T345 Ant                     | T145 Preamp              | Cable Factor         | T159 BRF [dB] | dB(uVolts/           | E-Fields                      | Average                | E-Fields                       | Peak Margin         | Height [cm]   | Polarity         |
| a sala no solido solido. | (MHz)                                 | Reading                    | 100 00 00 00 00 00 00 00 00 00 00 00 00 | Factor                       | Gain [dB]                | [dB]                 |               | meter)               | [dBuV/m] -                    | Margin (dB)            | [dBuV/m]-                      | (dB)                |               | court de la fait |
| 18                       | 15782.11                              | (dBuV)<br>25.9             | Av                                      | [dB/m]<br>41.3               | -32.9                    | 13.6                 | 0.2           | 48.1                 | Avg<br>53.97                  | -5.87                  | Peak<br>-                      |                     | 133           | Horz             |
|                          |                                       |                            |   |                              | -4.0                     | -5.0                 |               |                      |                               |                        |                                |                     |               |                  |
| ertical 10000            |                                       |                            | D-t-                                    | T245                         | TARE                     | C-N                  | THEO DOE ! !  | doles to             | e et                          |                        | e et it                        | D-skr.              | Halaker . I   | D-1 11           |
| Marker No.               | Test Frequency<br>(MHz)               | Meter<br>Reading           | Detector                                | T345 Ant<br>Factor           | T145 Preamp<br>Gain [dB] | [dB]                 | T159 BRF [dB] | dB(uVolts/<br>meter) | E-Fields<br>[dBuV/m] -        | Average<br>Margin (dB) | E-Fields<br>[dBuV/m] -         | Peak Margin<br>(dB) | Height [cm]   | Polarity         |
|                          |                                       | (dBuV)                     |   | [d8/m]                       |                          |                      |               |                      | Avg                           |                        | Peak                           | 1                   |               |                  |
| 20                       | 15777.86                              | 28.54                      | Av                                      | 41.3                         | -32.9                    | 13.6                 | 0.2           | 50.74                | 53.97                         | -3.23                  |                                | -                   | 133           | Vert             |
|                          | I Frequencies<br>ector<br>ak detector | 28,54                      | AV                                      | 41.5                         | -52.9                    | 13.0                 | 0.2           | 30,74                | 23.9/                         | -3.23                  |                                |                     | 135           | vert             |

Page 321 of 429

### **MID CHANNEL GRAPH**



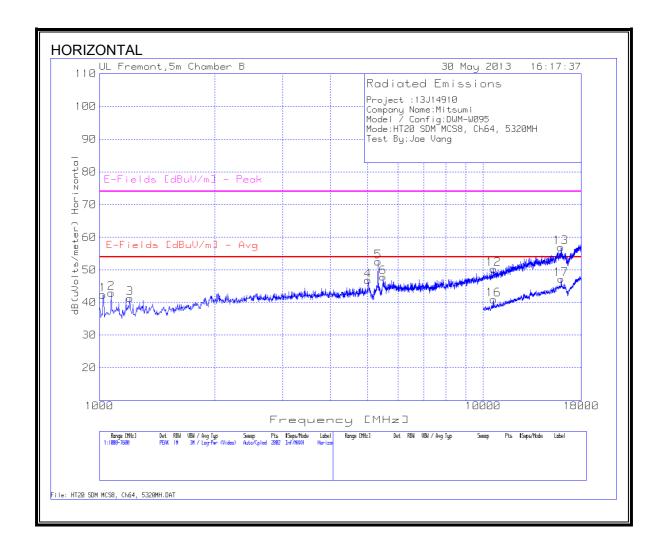


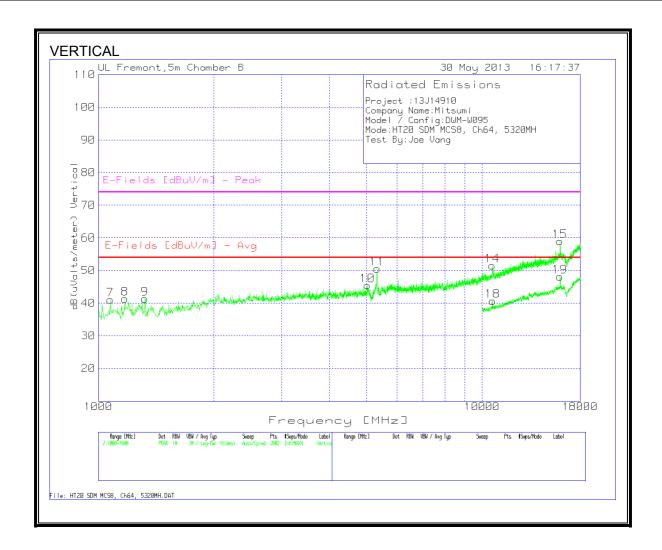
# MID CHANNEL 60 DATA

| Marker No.   | 00 - 7600MHz   |   |                                  |  |   |  |  |   |   |   |  |   |   |  |
|--|--|---|----------------------------------|--|---|--|--|---|---|---|--|---|---|--|
|  | Test   | Meter   | Detector                         | T345 Ant   | T145 Preamp   |  | T159 BRF [dB]  |   | E-Fields  | Average   | E-Fields   | Peak Margin   | Height [cm]   | Polarity                                       |
|  | Frequency  | Reading   |                                  | Factor   | Gain [dB]   | [dB]   |  | meter)  | [dBuV/m] -  | Margin (dB)   | [dBuV/m] -   | (dB)  |   |  |
|  | (MHz)  | (dBuV)  |                                  | [dB/m]   |   |  |  |   | Avg   |   | Peak   |   |   |  |
| 1  | 1026.387   | 47.94   | PK                               | 27.5   | -36   | 3.2  | 0  | 42.64   | 53.97   | -11.33  | 74   | -31.36  | 162   | Horz   |
| 2  | 1075.862   | 46.22   | PK                               | 27.8   | -35.9   | 3.2  | 0  | 41.32   | 53.97   | -12.65  | 74   | -32.68  | 162   | Horz   |
| 3  | 5007.496   | 44.06   | PK                               | 34.6   | -34.9   | 7.2  | 0.8  | 51.76   | 53.97   | -2.21   | 74   | -22.24  | 162   | Horz   |
| *4   | 5307.646<br>5475.862   | 40.35<br>41.53  | PK<br>PK                         | 34.9<br>34.9   | -34.9<br>-34.9  | 7.4  | 0.9  | 48.65<br>50.03  |   |   | 68.2   | -18.17  | 162<br>162  | Horz   |
|  | 3473.002   | 41.33   | FK                               | 54.5   | *34.3   | 7.0  | 0.5  | 30.03   |   |   | 00.2   | -10.17  | 102   | HOIZ   |
| ertical 1000   | - 7600MHz  |   |                                  |  |   |  |  |   |   |   |  |   |   |  |
| Marker No.   | Test   | Meter   | Detector                         | T345 Ant   | T145 Preamp   |  | T159 BRF [dB]  | dB(uVolts/  | E-Fields  | Average   | E-Fields   | Peak Margin   | Height [cm]   | Polarity                                       |
|  | Frequency<br>(MHz)   | (dBuV)  |                                  | Factor<br>[dB/m]   | Gain [dB]   | [dB]   |  | meter)  | [dBuV/m] -<br>Avg   | Margin (dB)   | [dBuV/m] -<br>Peak   | (dB)  |   |  |
| 6  | 1326.537   | 45.55   | PK                               | 28.5   | -35.5   | 3.5  | 0  | 42.05   | 53.97   | -11.92  | 74   | -31.95  | 200   | Vert   |
| 7  | 5004.198   | 39.47   | PK                               | 34.6   | -34.9   | 7.2  | 0.7  | 47.07   | 53.97   | -6.9  | 74   | -26.93  | 200   | Vert   |
| lorizontal 76  | 00 - 18000MHz  |   |                                  |  |   |  |  |   |   |   |  |   |   |  |
| Marker No.   | Test   | Meter   | Detector                         | T345 Ant   | T145 Preamp   | Cable Factor   | T159 BRF [dB]  | dB(uVolts/  | E-Fields  | Average   | E-Fields   | Peak Margin   | Height [cm]   | Polarity                                       |
|  | Frequency<br>(MHz)   | Reading<br>(dBuV)   |                                  | Factor<br>[dB/m]   | Gain [dB]   | [dB]   |  | meter)  | [dBuV/m] -<br>Avg   | Margin (dB)   | [dBuV/m] -<br>Peak   | (dB)  |   |  |
| 8  | 7880.66  | 37.12   | PK                               | 36.1   | -35.1   | 9.2  | 0.5  | 47.82   | -   |   | 68.2   | -20.38  | 100   | Horz   |
| 9  | 15900.25   | 34.06   | PK                               | 41.5   | -32.9   | 13.7   | 0.2  | 56.56   | -   | -   | 74   | -17.44  | 100   | Horz   |
| ertical 7600   | 19000014117  |   |                                  |  |   |  |  | -   |   |   |  |   |   |  |
| Marker No.   | Test   | Meter   | Detector                         | T345 Ant   | T145 Preamp   | Cable Factor   | T159 BRF [dB]  | dB(uVolts/  | E-Fields  | Average   | E-Fields   | Peak Margin   | Height [cm]   | Polarity                                       |
|  | Frequency  | Reading<br>(dBuV)   |                                  | Factor<br>[dB/m]   | Gain [dB]   | [dB]   |  | meter)  | [dBuV/m] -  | Margin (dB)   | [dBuV/m] -<br>Peak   | (dB)  |   |  |
| 10   | (MHz)<br>10598.901   | 35.87   | PK                               | 38.2   | -34.3   | 10.8   | 0.4  | 50.97   | Avg   | -   | 68.2   | -17.23  | 100   | Vert   |
| 11   | 15905.447  | 36.26   | PK                               | 41.5   | -32.9   | 13.7   | 0.2  | 58.76   | -   |   | 74   | -15.24  | 200   | Vert   |
|  |  |   |                                  |  |   |  |  |   |   |   |  |   |   |  |
| lorizontal 10<br>Marker No.  | 000 - 18000MHz   | Meter   | Detector                         | T345 Ant   |   |  | T192 BRF [dB]  | Int as to f   | E-Fields  | •   | F-Fields   |   |   | Polarity                                       |
| Marker No.   | Test<br>Frequency  | Reading   | Detector                         | Factor   | T145 Preamp<br>Gain [dB]  | [dB]   | 1192 BKF [dB]  | eter)   | [dBuV/m] -  | Average<br>Margin (dB)  | [dBuV/m] -   | Peak Margin<br>(dB)   | Height [cm]   | Polarity                                       |
|  | (MHz)  | f. to . rd  |                                  | [dB/m]   | ***************************************   |  |  | 122000  | Avg   |   | Peak   |   |   |  |
|  |  | (dBuV)  |                                  |  |   |  |  |   |   |   |  |   |   | Horz   |
| 12   | 15901.049  | 26.06   | PK                               | 41.5   | -32.9   | 13.7   | 0.2  | 48.56   | 53.97   | -5.41   | 74   | -25.44  | 100   | 11012  |
|  | 15901.049  |   | PK                               |  | -32.9   | 13.7   | 0.2  | 48.56   | 53.97   | -5.41   | 74   | -25.44  | 100   | Hore   |
| ertical 10000  |  | 26.06   |                                  | 41.5   |   |  |  |   |   | 6   |  |   |   |  |
| ertical 10000  | 15901.049<br>0 - 18000MHz<br>Test<br>Frequency   | 26.06  Meter Reading  | PK                               | 41.5<br>T345 Ant<br>Factor   | -32.9<br>T145 Preamp<br>Gain [dB]   |  | 0.2<br>T192 BRF [dB]                                       |   | E-Fields<br>[dBuV/m] -  | -5.41 Average Margin (dB)   | E-Fields<br>[dBuV/m] -   | -25.44 Peak Margin (dB)   | Height [cm]   | Polarity                                       |
| ertical 10000<br>Marker No.  | 15901.049<br>- 18000MHz<br>Test<br>Frequency<br>(MHz)  | Meter<br>Reading<br>(dBuV)  | Detector                         | 41.5<br>T345 Ant<br>Factor<br>[dB/m]   | T145 Preamp<br>Gain [dB]  | Cable Factor<br>[dB]   | T192 BRF [dB]  | dB(uVolts/m<br>eter)  | E-Fields  | Average   | E-Fields<br>[dBuV/m] -<br>Peak   | Peak Margin<br>(dB)   | Height [cm]   | Polarity                                       |
| ertical 10000  | 15901.049<br>0 - 18000MHz<br>Test<br>Frequency   | 26.06  Meter Reading  |                                  | 41.5<br>T345 Ant<br>Factor   | T145 Preamp   | Cable Factor   |  | dB(uVolts/m   | E-Fields<br>[dBuV/m] -  | Average   | E-Fields<br>[dBuV/m] -   | Peak Margin   |   | Polarity                                       |
| Vertical 10000<br>Marker No.   | 15901.049<br>0 - 18000MHz<br>Test<br>Frequency<br>(MHz)<br>10599.7<br>15897.051  | Meter<br>Reading<br>(dBuV)<br>26.52   | Detector                         | 41.5<br>T345 Ant<br>Factor<br>[dB/m]<br>38.2   | T145 Preamp<br>Gain [dB]  | Cable Factor<br>[dB]   | T192 BRF [dB]  | dB(uVolts/m<br>eter)  | E-Fields<br>[dBuV/m] -<br>Avg   | Average<br>Margin (dB)  | E-Fields<br>[dBuV/m] -<br>Peak<br>68.2   | Peak Margin<br>(dB)   | Height [cm]   | Polarity                                       |
| Vertical 10000<br>Marker No.<br>13<br>14   | 15901.049<br>D - 18000MHz<br>Test<br>Frequency<br>(MHz)<br>10599.7<br>15897.051<br>00 - 7600MHz  | 26.06  Meter Reading (dBuV) 26.52 27.38   | Detector PK PK                   | 41.5<br>T345 Ant<br>Factor<br>[dB/m]<br>38.2<br>41.5   | T145 Preamp<br>Gain [dB]<br>-34.3<br>-32.9  | Cable Factor<br>[dB]<br>10.8<br>13.7   | 0.4<br>0.2   | dB(uVolts/m<br>eter)<br>41.62<br>49.88  | E-Fields<br>[dBuV/m] -<br>Avg<br>-<br>53.97   | Average<br>Margin (dB)  | E-Fields<br>[dBuV/m] -<br>Peak<br>68.2<br>74   | Peak Margin<br>(dB)<br>-26.58<br>-24.12   | Height [cm]   | Polarity  Vert  Vert                           |
| Vertical 10000<br>Marker No.   | 15901.049  - 18000MHz  Test Frequency (MHz) 10599.7 15897.051  00 - 7600MHz  Test Frequency  | Meter<br>Reading<br>(dBuV)<br>26.52<br>27.38  | Detector                         | 41.5  T345 Ant Factor [dB/m] 38.2 41.5  T345 Ant Factor  | T145 Preamp<br>Gain [dB]  | Cable Factor<br>[dB]<br>10.8<br>13.7   | T192 BRF [dB]  | dB(uVolts/m<br>eter)<br>41.62<br>49.88  | E-Fields [dBuV/m] - Avg - 53.97  E-Fields [dBuV/m] -  | Average<br>Margin (dB)  | E-Fields [dBuV/m] - Peak 68.2 74  E-Fields [dBuV/m] -  | Peak Margin<br>(dB)   | Height [cm]   | Polarity                                       |
| Marker No.  13 14  Iorizontal 10  Marker No.   | 15901.049  2 - 18000MHz  Test Frequency (MHz)  10599.7  15897.051  00 - 7600MHz  Test Frequency (MHz)  | Meter<br>Reading<br>(dBuV)<br>26.52<br>27.38<br>Meter<br>Reading<br>(dBuV)                      | PK PK                            | 41.5  T345 Ant Factor [dB/m] 38.2 41.5  T345 Ant Factor [dB/m]                                   | T145 Preamp<br>Gain [dB]<br>-34.3<br>-32.9<br>T145 Preamp<br>Gain [dB]                                      | Cable Factor [dB]  10.8  13.7  Cable Factor [dB]   | 0.4<br>0.2<br>T159 BRF [dB]                                | dB(uVolts/m<br>eter)<br>41.62<br>49.88<br>dB(uVolts/m<br>eter)  | E-Fields [dBuV/m] - Avg - 53.97  E-Fields [dBuV/m] - Avg  | Average<br>Margin (dB) 4.09  Average Margin (dB)                                    | E-Fields [dBuV/m] - Peak 68.2 74  E-Fields [dBuV/m] - Peak   | Peak Margin<br>(dB)  -26.58  -24.12  Peak Margin<br>(dB)                              | Height [cm]   | Polarity  Vert  Vert  Polarity                 |
| ertical 10000<br>Marker No.<br>13<br>14  | 15901.049  - 18000MHz  Test Frequency (MHz) 10599.7 15897.051  00 - 7600MHz  Test Frequency  | Meter<br>Reading<br>(dBuV)<br>26.52<br>27.38  | Detector PK PK                   | 41.5  T345 Ant Factor [dB/m] 38.2 41.5  T345 Ant Factor  | T145 Preamp<br>Gain [dB]<br>-34.3<br>-32.9  | Cable Factor [dB]  10.8  13.7  Cable Factor  | 0.4<br>0.2   | dB(uVolts/m<br>eter)<br>41.62<br>49.88<br>dB(uVolts/m   | E-Fields [dBuV/m] - Avg - 53.97  E-Fields [dBuV/m] -  | Average<br>Margin (dB)  | E-Fields [dBuV/m] - Peak 68.2 74  E-Fields [dBuV/m] -  | Peak Margin<br>(dB)<br>-26.58<br>-24.12   | Height [cm]   | Polarity  Vert  Vert                           |
| Vertical 10000<br>Marker No.<br>13<br>14<br>Iorizontal 10<br>Marker No.                      | 15901.049  2 - 18000MHz  Test Frequency (MHz)  10599.7  15897.051  00 - 7600MHz  Test Frequency (MHz)  | Meter<br>Reading<br>(dBuV)<br>26.52<br>27.38<br>Meter<br>Reading<br>(dBuV)<br>33.74             | PK PK                            | 41.5  T345 Ant Factor [dB/m] 38.2 41.5  T345 Ant Factor [dB/m]                                   | T145 Preamp<br>Gain [dB]<br>-34.3<br>-32.9<br>T145 Preamp<br>Gain [dB]                                      | Cable Factor [dB]  10.8  13.7  Cable Factor [dB]   | 0.4<br>0.2<br>T159 BRF [dB]                                | dB(uVolts/m<br>eter)<br>41.62<br>49.88<br>dB(uVolts/m<br>eter)  | E-Fields [dBuV/m] - Avg - 53.97  E-Fields [dBuV/m] - Avg  | Average<br>Margin (dB) 4.09  Average Margin (dB)                                    | E-Fields [dBuV/m] - Peak 68.2 74  E-Fields [dBuV/m] - Peak   | Peak Margin<br>(dB)  -26.58  -24.12  Peak Margin<br>(dB)                              | Height [cm]   | Polarity  Vert  Vert  Polarity                 |
| Vertical 10000 Marker No.  13 14  Iorizontal 10 Marker No.  3                                | 15901.049  D - 18000MHz  Test Frequency (MHz) 10599.7 15897.051  00 - 7600MHz  Test Frequency (MHz) 5003.55  | Meter<br>Reading<br>(dBuV)<br>26.52<br>27.38<br>Meter<br>Reading<br>(dBuV)<br>33.74             | PK PK                            | 41.5  T345 Ant Factor [d8/m] 38.2 41.5  T345 Ant Factor [d8/m] 34.6                              | T145 Preamp Gain [dB]  -34.3  -32.9  T145 Preamp Gain [dB]  -34.9   | Cable Factor [dB]  10.8  13.7  Cable Factor [dB]  7.2  Cable Factor                            | 0.4<br>0.2<br>T159 BRF [dB]                                | dB(uVolts/m<br>eter) 41.62 49.88  dB(uVolts/m<br>eter) 41.34  | E-Fields [dBuV/m] - Avg - 53.97  E-Fields [dBuV/m] - Avg 53.97  | Average Margin (dB) 4.09  Average Margin (dB)  -12.63                               | E-Fields [dBuV/m] - Peak 68.2 74  E-Fields [dBuV/m] - Peak -   | Peak Margin<br>(dB)  -26.58  -24.12  Peak Margin<br>(dB)                              | Height [cm]   | Polarity  Vert  Vert  Polarity                 |
| rertical 10000<br>Marker No.  13 14  Iorizontal 10  Marker No.  3  Iorizontal 10  Marker No. | 15901.049  - 18000MHz  Test Frequency (MHz) 10599.7 15897.051  Test Frequency (MHz) 5003.55  Test Frequency (MHz) Test Frequency (MHz) Test Frequency (MHz)  | Meter<br>Reading<br>(dBuV)<br>26.52<br>27.38<br>Meter<br>Reading<br>(dBuV)<br>33.74             | PK PK Detector                   | 1345 Ant Factor [d8/m] 38.2 41.5 1345 Ant Factor [d8/m] 34.6 1345 Ant Factor [d8/m] 34.6         | T145 Preamp Gain [d8] -34.3 -32.9  T145 Preamp Gain [d8] -34.9  T145 Preamp Gain [d8]                       | Cable Factor [dB]  10.8  13.7  Cable Factor [dB]  7.2  Cable Factor [dB]                       | T192 BRF [dB]  0.4  0.2  T159 BRF [dB]  0.7                | dB(uVolts/m<br>eter) 41.62 49.88 dB(uVolts/m<br>eter) 41.34 dB(uVolts/m<br>eter)                      | E-Fields [dBuV/m] - Avg - 53.97  E-Fields [dBuV/m] - Avg - 53.97  E-Fields [dBuV/m] - Avg | Average Margin (dB)  -4.09  Average Margin (dB)  -12.63  Average Margin (dB)        | E-Fields [dBuV/m] - Peak 68.2 74  E-Fields [dBuV/m] - Peak   | Peak Margin<br>(dB)<br>-26.58<br>-24.12<br>Peak Margin<br>(dB)                        | Height [cm] 200 200 Height [cm] 169                 | Polarity  Vert  Vert  Polarity  Horz           |
| Vertical 10000<br>Marker No.<br>13<br>14<br>Iorizontal 10<br>Marker No.                      | 15901.049 - 18000MHz Test Frequency (MHz) 10599.7 15897.051 00 - 7600MHz Test Frequency (MHz) 5003.55 Test Frequency | Meter Reading (dBuV) 26.52 27.38  Meter Reading (dBuV) 33.74                                    | PK<br>PK<br>PK<br>Detector       | T345 Ant Factor [d8/m] 38.2 41.5  T345 Ant Factor [d8/m] 34.6                                    | T145 Preamp Gain [dB]  -34.3  -32.9  T145 Preamp Gain [dB]  -34.9   | Cable Factor [dB]  10.8  13.7  Cable Factor [dB]  7.2  Cable Factor                            | 0.4<br>0.2<br>T159 BRF [dB]                                | dB(uVolts/m<br>eter)<br>41.62<br>49.88<br>dB(uVolts/m<br>eter)<br>41.34                               | E-Fields [dBuV/m] - Avg - 53.97  E-Fields [dBuV/m] - Avg 53.97  | Average Margin (dB) 4.09  Average Margin (dB)  -12.63                               | E-Fields [dBuV/m] - Peak 68.2 74  E-Fields [dBuV/m] - Peak   | Peak Margin (dB)  -26.58 -24.12  Peak Margin (dB)  -                                  | Height [cm]  200 200  Height [cm]                   | Polarity  Vert  Vert  Polarity  Horz           |
| ertical 10000<br>Marker No.  13 14  orizontal 10  Marker No.  3  orizontal 10  Marker No.    | 15901.049  - 18000MHz  Test Frequency (MHz) 10599.7 15897.051  Test Frequency (MHz) 5003.55  Test Frequency (MHz) Test Frequency (MHz) Test Frequency (MHz)  | Meter<br>Reading<br>(dBuV)<br>26.52<br>27.38<br>Meter<br>Reading<br>(dBuV)<br>33.74             | PK PK Detector                   | 1345 Ant Factor [d8/m] 38.2 41.5 1345 Ant Factor [d8/m] 34.6 1345 Ant Factor [d8/m] 34.6         | T145 Preamp Gain [d8] -34.3 -32.9  T145 Preamp Gain [d8] -34.9  T145 Preamp Gain [d8]                       | Cable Factor [dB]  10.8  13.7  Cable Factor [dB]  7.2  Cable Factor [dB]                       | T192 BRF [dB]  0.4  0.2  T159 BRF [dB]  0.7                | dB(uVolts/m<br>eter) 41.62 49.88 dB(uVolts/m<br>eter) 41.34 dB(uVolts/m<br>eter)                      | E-Fields [dBuV/m] - Avg - 53.97  E-Fields [dBuV/m] - Avg - 53.97  E-Fields [dBuV/m] - Avg | Average Margin (dB)  -4.09  Average Margin (dB)  -12.63  Average Margin (dB)        | E-Fields [dBuV/m] - Peak 68.2 74  E-Fields [dBuV/m] - Peak   | Peak Margin (dB)  -26.58 -24.12  Peak Margin (dB)  Peak Margin (dB)                   | Height [cm] 200 200 Height [cm] 169                 | Polarity  Vert  Vert  Polarity  Horz           |
| rertical 10000<br>Marker No.  13 14  Iorizontal 10  Marker No.  3  Iorizontal 10  Marker No. | 15901.049  - 18000MHz  Test Frequency (MHz) 10599.7  15897.051  00 - 76000MHz  Test Frequency (MHz) 5003.55  000 - 18000MHz  Test Frequency (MHz) 11898.2  | Meter Reading (dBuV) 26.52 27.38  Meter Reading (dBuV) 33.74  Meter Reading (dBuV) 44.84  Meter | PK PK Detector                   | 1345 Ant Factor [d8/m] 38.2 41.5 1345 Ant Factor [d8/m] 34.6 1345 Ant Factor [d8/m] 34.6         | T145 Preamp Gain [d8] -34.3 -32.9  T145 Preamp Gain [d8] -34.9  T145 Preamp Gain [d8]                       | Cable Factor [dB]  10.8  13.7  Cable Factor [dB]  7.2  Cable Factor [dB]  13.7                 | T192 BRF [dB]  0.4  0.2  T159 BRF [dB]  0.7                | dB(uvolts/m eter) 41.62 49.88 dB(uvolts/m eter) 41.34 dB(uvolts/m eter) 47.34                         | E-Fields [dBuV/m] - Avg - 53.97  E-Fields [dBuV/m] - Avg 53.97  E-Fields [dBuV/m] - Avg 53.97  E-Fields [dBuV/m] - E-Fields   | Average Margin (dB)  -4.09  Average Margin (dB)  -12.63  Average Margin (dB)        | E-Fields [dBuV/m] - Peak 68.2 74  E-Fields [dBuV/m] - Peak E-Fields [dBuV/m] - Peak E-Fields [dBuV/m] - Peak | Peak Margin (dB)  -26.58 -24.12  Peak Margin (dB)  Peak Margin (dB)                   | Height [cm] 200 200 Height [cm] 169                 | Polarity  Vert  Vert  Polarity  Horz           |
| rertical 10000 Marker No.  13 14 Iorizontal 10 Marker No.  3 Iorizontal 19 Marker No.        | 15901.049  - 18000MHz  Test Frequency (MHz) 10599.7 15897.051 5897.051 00 - 7600MHz  Test Frequency (MHz) 5003.55  Test Frequency (MHz) 15898.2  - 18000MHz  Test Frequency (MHz)  | 26.06  Meter Reading (dBuV) 26.52 27.38  Meter Reading (dBuV) 33.74  Meter Reading (dBuV) 24.84 | Detector  PK PK PK  Detector  Av | 41.5  T345 Ant Factor [d8/m] 38.2 41.5  T345 Ant Factor [d8/m] 41.6  T345 Ant Factor [d8/m] 41.5 | T145 Preamp<br>Gain [d8]<br>-34.3<br>-32.9<br>T145 Preamp<br>Gain [d8]<br>-34.9<br>T145 Preamp<br>Gain [d8] | Cable Factor [dB]  10.8  13.7  Cable Factor [dB]  7.2  Cable Factor [dB]  13.7                 | T192 BRF [dB]  0.4  0.2  T159 BRF [dB]  0.7  T192 BRF [dB] | dB(uvolts/m eter) 41.62 49.88 dB(uvolts/m eter) 41.34 dB(uvolts/m eter) 47.34                         | E-Fields [dBuV/m] - Avg - 53.97  E-Fields [dBuV/m] - Avg 53.97  E-Fields [dBuV/m] - Avg 53.97   | Average Margin (dB) 4.09  Average Margin (dB)  -12.63  Average Margin (dB)  -6.63   | E-Fields [dBuV/m] - Peak 68.2 74  E-Fields [dBuV/m] - Peak E-Fields [dBuV/m] E-Fields [dBuV/m] -             | Peak Margin (dB)  -26.58  -24.12  Peak Margin (dB)  -  Peak Margin (dB)  -            | Height [cm]  200 200  Height [cm]  169  Height [cm] | Polarity  Vert  Vert  Polarity  Horz  Polarity |
| rertical 10000 Marker No.  13 14 Iorizontal 10 Marker No.  3 Iorizontal 19 Marker No.        | 15901.049  - 18000MHz  Test Frequency (MHz) 10599.7 15897.051  07-7600MHz Test Frequency (MHz) 5003.55  000 - 18000MHz Test Frequency (MHz) 15898.2  - 18000MHz Test Test - 15898.2  | Meter Reading (dBuV) 26.52 27.38  Meter Reading (dBuV) 33.74  Meter Reading (dBuV) 44.84  Meter | Detector  PK PK PK  Detector  Av | 41.5  T345 Ant Factor [d8/m] 38.2 41.5  T345 Ant Factor [d8/m] 34.6  T345 Ant Factor [d8/m] 41.5 | T145 Preamp<br>Gain [d8] -34.3 -32.9  T145 Preamp<br>Gain [d8] -34.9  T145 Preamp<br>Gain [d8] -32.9        | Cable Factor [d8]  10.8 13.7  Cable Factor [d8] 7.2  Cable Factor [d8] 13.7  Cable Factor [d8] | T192 BRF [dB]  0.4  0.2  T159 BRF [dB]  0.7  T192 BRF [dB] | dB{uVolts/m eter}  41.62 49.88  dB{uVolts/m eter}  41.34  dB{uVolts/m eter}  47.34  dB{uVolts/m eter} | E-Fields [dBuV/m] - Avg - 53.97  E-Fields [dBuV/m] - Avg 53.97  E-Fields [dBuV/m] - Avg 53.97  E-Fields [dBuV/m] - E-Fields   | Average Margin (dB)  -4.09  Average Margin (dB)  -12.63  Average Margin (dB)  -6.63 | E-Fields [dBuV/m] - Peak 68.2 74  E-Fields [dBuV/m] - Peak E-Fields [dBuV/m] - Peak E-Fields [dBuV/m] - Peak | Peak Margin (dB)  -26.58 -24.12  Peak Margin (dB)  Peak Margin (dB)  Peak Margin (dB) | Height [cm]  200 200  Height [cm]  169  Height [cm] | Polarity  Vert  Vert  Polarity  Horz  Polarity |

Page 324 of 429

### **HIGH CHANNEL GRAPH**





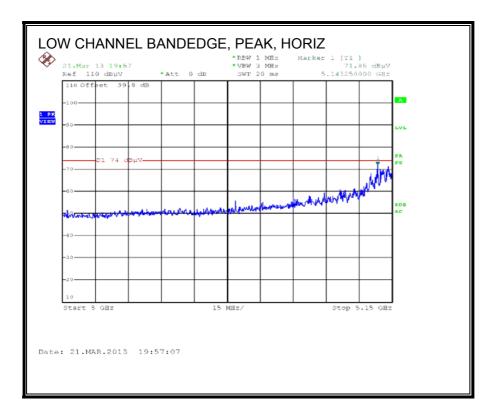
# **HIGH CHANNEL 64 DATA**

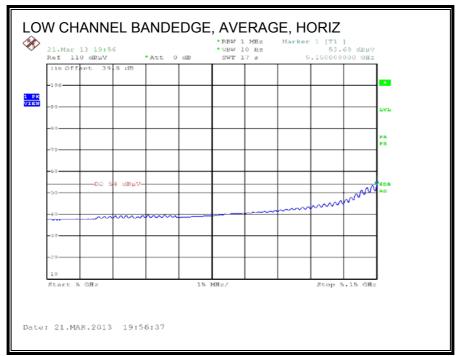
| roject :1<br>Company | Name:Mits              | umi              |          |                    |           |                 |          |           |                        |                   |                        |                |                |          |
|----------------------|------------------------|------------------|----------|--------------------|-----------|-----------------|----------|-----------|------------------------|-------------------|------------------------|----------------|----------------|----------|
|                      | onfig:DWM              |                  |          |                    |           |                 |          |           |                        |                   |                        |                |                |          |
| /lode:HT             | 20 SDM MCS             | 8, Ch64, 53      | 320MH    |                    |           |                 |          |           |                        |                   |                        |                |                |          |
| est By:Jo            | e Vang                 |                  |          |                    |           |                 |          |           |                        |                   |                        |                |                |          |
|                      |                        |                  |          |                    |           |                 |          |           |                        |                   |                        |                |                |          |
| Iorizonta            | l 1000 - 7600          | MHz              |          |                    |           |                 |          |           |                        |                   |                        |                |                |          |
| Marker               | Test                   | Meter            | Detector | T345 Ant           | T145      | Cable           | T159 BRF | dB(uVolts | E-Fields               | Average           | E-Fields               | Peak           | Height         | Polarity |
| No.                  | Frequency              | Reading          |          | Factor             | Preamp    | Factor          | [dB]     | / meter)  | [dBuV/m] -             | Margin            | [dBuV/m] -             | Margin         | [cm]           |          |
|                      | (MHz)                  | (dBuV)           |          | [dB/m]             | Gain [dB] | [dB]            |          |           | Avg                    | (dB)              | Peak                   | (dB)           |                |          |
|                      |                        |                  |          |                    |           |                 |          |           |                        |                   |                        |                |                |          |
| 1                    | 1023.088               | 47.5             | PK       | 27.5               | -36       | 3.2             | 0.1      | 42.3      | 53.97                  | -11.67            | 74                     | -31.7          | 101            | Horz     |
| 2                    | 1075.862               | 47.62            | PK       | 27.8               | -35.9     | 3.2             | 0.1      | 42.82     | 53.97                  | -11.15            | 74                     | -31.18         | 101            | Horz     |
| 3                    | 1201.199               | 45.01            | PK       | 28.4               | -35.7     | 3.4             | 0.1      | 41.21     | 53.97                  | -12.76            | 74                     | -32.79         | 101            | Horz     |
| 4                    | 5017.391               | 39.72            | PK       | 34.6               | -34.9     | 7.2             | 0.1      | 46.72     | 53.97                  | -7.25             | 74                     | -27.28         | 200            | Horz     |
| *5                   | 5324.138               | 44.11            | PK<br>PK | 34.9               | -34.9     | 7.5             | 1        | 52.61     | -                      | -                 |                        | - 20.4         | 101            | Horz     |
| 6                    | 5492.354               | 39.2             | PK       | 34.9               | -34.9     | 7.6             | 1        | 47.8      | -                      | -                 | 68.2                   | -20.4          | 101            | Horz     |
| fortical 1           | 000 - 7600MI           |                  |          |                    |           |                 |          |           |                        |                   |                        |                |                |          |
|                      | Test                   |                  | Detector | TO AE Amb          | T145      | Cable           | T159 BRF | dB(uVolts | E Fields               | A                 | E Fields               | Dools          | Halabt         | Dolovite |
| Marker<br>No.        | Frequency              | Meter<br>Reading | Detector | T345 Ant<br>Factor | Preamp    | Cable<br>Factor | [dB]     | /meter)   | E-Fields<br>[dBuV/m] - | Average<br>Margin | E-Fields<br>[dBuV/m] - | Peak<br>Margin | Height<br>[cm] | Polarit  |
| 140.                 | (MHz)                  | (dBuV)           |          | [dB/m]             | Gain [dB] | [dB]            | [ub]     | /meter/   | Avg                    | (dB)              | Peak                   | (dB)           | [ciii]         |          |
|                      | (IVIIIZ)               | (ubuv)           |          | [ub/iii]           | Gain [ub] | [ub]            |          |           | Avg                    | (ив)              | Peak                   | (ub)           |                |          |
| 7                    | 1075.862               | 45.85            | PK       | 27.8               | -35.9     | 3.2             | 0.1      | 41.05     | 53.97                  | -12.92            | 74                     | -32.95         | 100            | Vert     |
| 8                    | 1174.813               | 45.48            | PK       | 28.2               | -35.7     | 3.3             | 0.1      | 41.38     | 53.97                  | -12.59            | 74                     | -32.62         | 200            | Vert     |
| 9                    | 1323.238               | 44.73            | PK       | 28.5               | -35.5     | 3.5             | 0.1      | 41.33     | 53.97                  | -12.64            | 74                     | -32.67         | 200            | Vert     |
| 10                   | 5020.69                | 38.49            | PK       | 34.6               | -34.9     | 7.2             | 0.1      | 45.49     | 53.97                  | -8.48             | 74                     | -28.51         | 200            | Vert     |
| *11                  | 5327.436               | 42.09            | PK       | 34.9               | -34.9     | 7.5             | 1        | 50.59     | -                      | -                 | -                      | -              | 200            | Vert     |
|                      |                        |                  |          |                    |           |                 |          |           |                        |                   |                        |                |                |          |
| lorizonta            | l 7600 - 1800          | 0MHz             |          |                    |           |                 |          |           |                        |                   |                        |                |                |          |
| Marker               | Test                   | Meter            | Detector | T345 Ant           | T145      | Cable           | T192 BRF | dB(uVolts | E-Fields               | Average           | E-Fields               | Peak           | Height         | Polarity |
| No.                  | Frequency              | Reading          |          | Factor             | Preamp    | Factor          | [dB]     | /meter)   | [dBuV/m] -             | Margin            | [dBuV/m] -             | Margin         | [cm]           |          |
|                      | (MHz)                  | (dBuV)           |          | [dB/m]             | Gain [dB] | [dB]            |          |           | Avg                    | (dB)              | Peak                   | (dB)           |                |          |
|                      |                        |                  |          |                    |           |                 |          |           |                        |                   |                        |                |                |          |
| 12                   | 10640.48               | 35.34            | PK       | 38.3               | -34.3     | 10.8            | 0.2      | 50.34     | -                      | -                 | 74                     | -23.66         | 100            | Horz     |
| 13                   | 15952.224              | 34.25            | PK       | 41.5               | -32.9     | 13.7            | 0.4      | 56.95     | -                      | -                 | 74                     | -17.05         | 100            | Horz     |
|                      |                        |                  |          |                    |           |                 |          |           |                        |                   |                        |                |                |          |
|                      | 600 - 18000N           |                  |          |                    |           |                 |          |           |                        |                   |                        |                |                |          |
| Marker               | Test                   | Meter            | Detector | T345 Ant           | T145      | Cable           | T192 BRF | dB(uVolts | E-Fields               | Average           | E-Fields               | Peak           | Height         | Polarity |
| No.                  | Frequency              | Reading          |          | Factor             | Preamp    | Factor          | [dB]     | /meter)   | [dBuV/m] -             | Margin            | [dBuV/m] -             | Margin         | [cm]           |          |
|                      | (MHz)                  | (dBuV)           |          | [dB/m]             | Gain [dB] | [dB]            |          |           | Avg                    | (dB)              | Peak                   | (dB)           |                |          |
|                      | 10525 202              | 25.54            | DI       | 20.2               | 24.2      | 10.0            | 0.0      | 54.54     |                        |                   | 74                     | 22.46          | 200            | \/       |
| 14<br>15             | 10635.282<br>15957.421 | 36.54            | PK       | 38.3<br>41.5       | -34.3     | 10.8            | 0.2      | 51.54     | -                      | -                 | 74<br>74               | -22.46         | 200            | Vert     |
| 15                   | 15957.421              | 36.28            | PK       | 41.5               | -32.9     | 13.7            | 0.4      | 58.98     | -                      | -                 | 74                     | -15.02         | 200            | Vert     |
| lorizonta            | l 10000 - 180          | OOMALI 7         |          |                    |           |                 |          |           |                        | l                 |                        |                |                |          |
| Marker               | Test                   | Meter            | Detector | T345 Ant           | T145      | Cable           | T192 BRF | dB(uVolts | E-Fields               | Average           | E-Fields               | Peak           | Height         | Polarit  |
| No.                  | Frequency              | Reading          | Detector | Factor             | Preamp    | Factor          | [dB]     | /meter)   | [dBuV/m] -             | Average<br>Margin | [dBuV/m] -             | Margin         | [cm]           | Polaric  |
| NO.                  | (MHz)                  | (dBuV)           |          | [dB/m]             | Gain [dB] | [dB]            | Lapi     | /meter)   | I                      | (dB)              | Peak                   | (dB)           | [Citi]         |          |
|                      | (IVIIIZ)               | (abav)           |          | [ub/iii]           | Gain [GD] | [ub]            |          |           | Avg                    | (ub)              | Feak                   | (ub)           |                |          |
| 16                   | 10639.68               | 25.79            | PK       | 38.3               | -34.3     | 10.8            | 0.2      | 40.79     | 53.97                  | -13.18            | 74                     | -33.21         | 200            | Horz     |
| 17                   | 15965.017              | 24.28            | PK       | 41.6               | -32.9     | 13.7            | 0.5      | 47.18     | 53.97                  | -6.79             | 74                     | -26.82         | 100            | Horz     |
|                      | 2000000                | 21120            |          | 72.0               | 52.5      | 2017            |          | 17120     | 00.07                  | 0.175             |                        | Loide          | 200            |          |
| ertical 1            | 0000 - 18000           | MHz              |          |                    |           |                 |          |           |                        |                   |                        |                |                |          |
| Marker               | Test                   | Meter            | Detector | T345 Ant           | T145      | Cable           | T192 BRF | dB(uVolts | E-Fields               | Average           | E-Fields               | Peak           | Height         | Polarit  |
| No.                  | Frequency              | Reading          |          | Factor             | Preamp    | Factor          | [dB]     | /meter)   | [dBuV/m] -             | Margin            | [dBuV/m] -             | Margin         | [cm]           |          |
|                      | (MHz)                  | (dBuV)           |          | [dB/m]             | Gain [dB] | [dB]            |          |           | Avg                    | (dB)              | Peak                   | (dB)           |                |          |
|                      |                        | _ ′              |          |                    |           | _               |          |           |                        |                   |                        |                |                |          |
| 18                   | 10639.68               | 25.7             | PK       | 38.3               | -34.3     | 10.8            | 0.2      | 40.7      | 53.97                  | -13.27            | 74                     | -33.3          | 200            | Vert     |
| 19                   | 15957.021              | 25.47            | PK       | 41.5               | -32.9     | 13.7            | 0.4      | 48.17     | 53.97                  | -5.8              | 74                     | -25.83         | 200            | Vert     |
|                      |                        |                  |          |                    |           |                 |          |           |                        |                   |                        |                |                |          |
| ertical 1            | 0000 - 18000           | MHz              |          |                    |           |                 |          |           |                        |                   |                        |                |                |          |
| Marker               | Test                   | Meter            | Detector | T345 Ant           | T145      | Cable           | T192 BRF | dB(uVolts | E-Fields               | Average           | E-Fields               | Peak           | Height         | Polarity |
|                      | Frequency              | Reading          |          | Factor             | Preamp    | Factor          | [dB]     | /meter)   | [dBuV/m] -             | Margin            | [dBuV/m] -             | Margin         | [cm]           |          |
| No.                  | (MHz)                  | (dBuV)           |          | [dB/m]             | Gain [dB] | [dB]            |          |           | Avg                    | (dB)              | Peak                   | (dB)           |                |          |
| No.                  |                        |                  | 1        | I                  | 1         |                 | 1        | 1         | I                      | I                 | I                      |                | 1              |          |
|                      |                        |                  |          |                    |           |                 |          |           |                        |                   |                        |                |                |          |
| No.                  | 15957.081              | 8.83             | Av       | 41.5               | -32.9     | 13.7            | 0.4      | 31.53     | 53.97                  | -22.44            | -                      | -              | 212            | Vert     |

PK - Peak detector QP - Quasi-Peak detector Av - Average detector

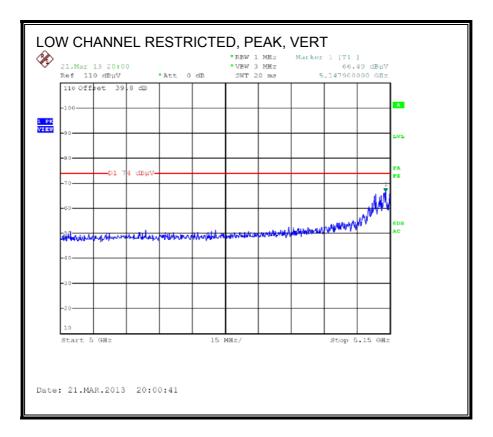
# 9.10. 802.11n HT40 CDD MCS0 2TX MODE IN THE 5.3 GHz BAND

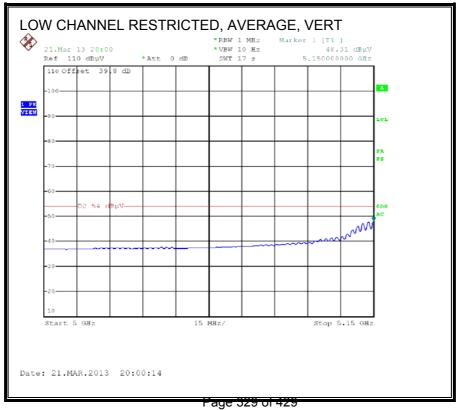
# **AUTHORIZED BANDEDGE (LOW CHANNEL)**



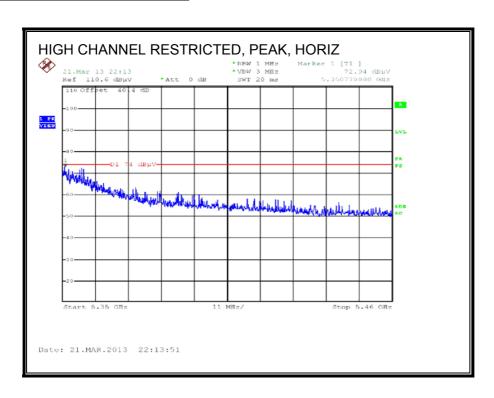


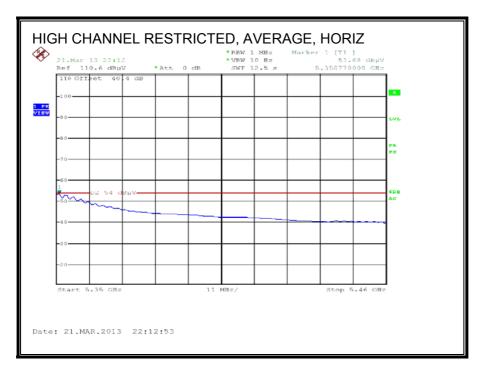
Page 328 of 429

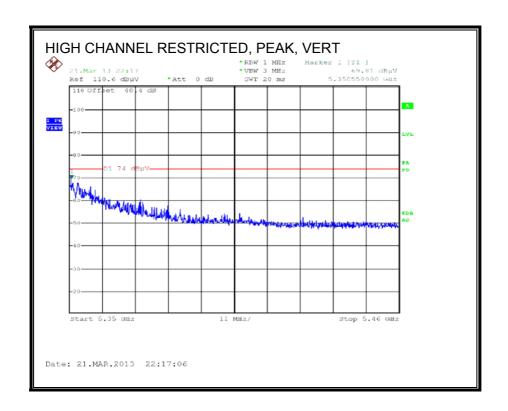


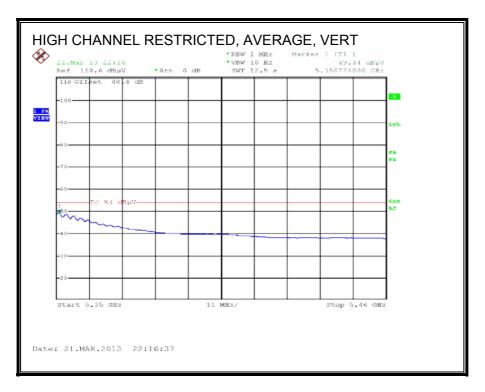


#### **RESTRICTED BANDEDGE (HIGH CHANNEL)**

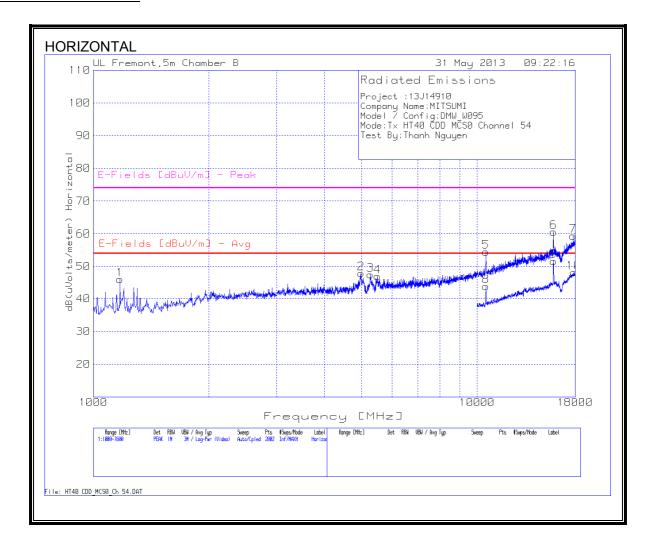


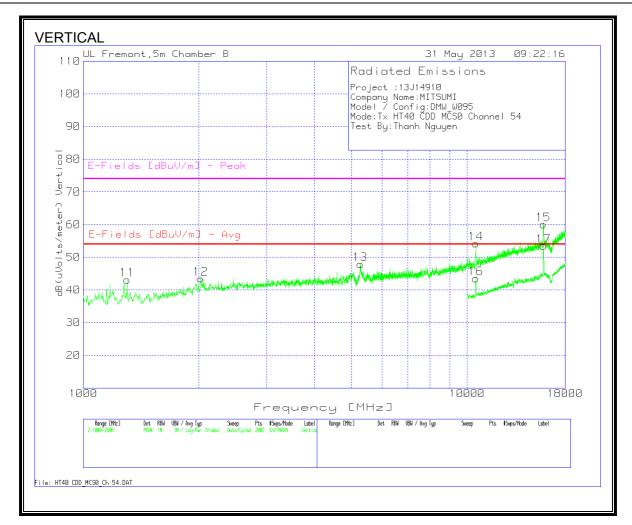






#### LOW CHANNEL GRAPH



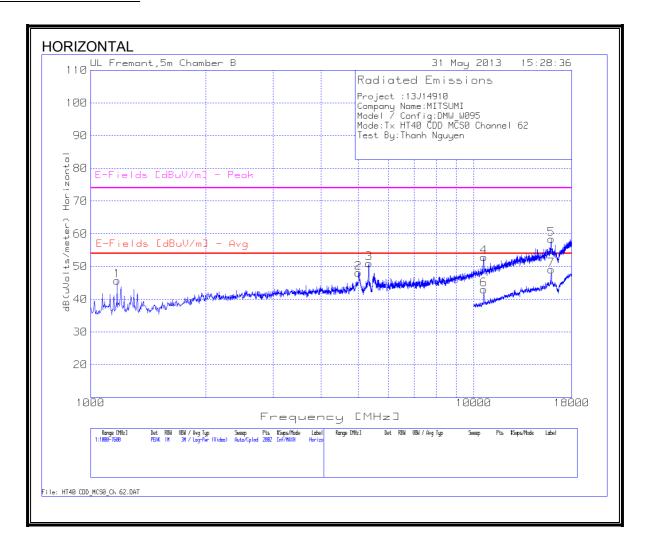


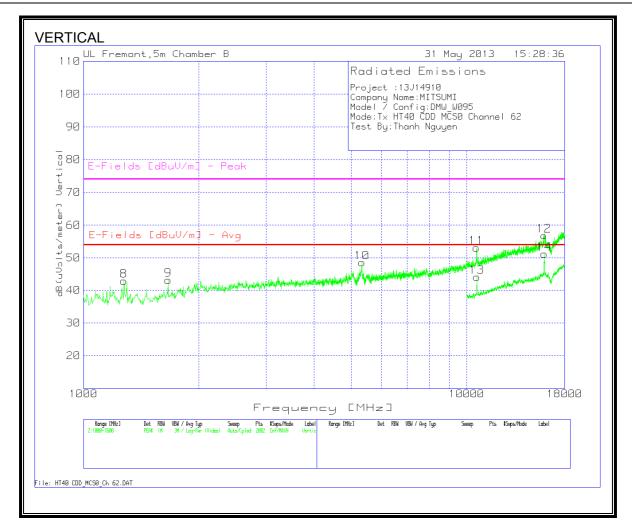
### **LOW CHANNEL 54 DATA**

|                | g:DMW_W095<br>CDD MCS0 Channe | 154                        |          |                              |                          |                      |               |                      |                               |                        |                                |                     |             |          |
|----------------|-------------------------------|----------------------------|----------|------------------------------|--------------------------|----------------------|---------------|----------------------|-------------------------------|------------------------|--------------------------------|---------------------|-------------|----------|
| est By:Thanh   | Nguyen                        |                            |          |                              |                          |                      |               |                      |                               |                        |                                |                     |             |          |
| orizontal 100  |                               |                            |          |                              | 1                        |                      |               |                      |                               |                        |                                |                     |             |          |
| Marker No.     | Test Frequency<br>(MHz)       | Meter<br>Reading           | Detector | T345 Ant<br>Factor           | T145 Preamp<br>Gain [dB] | Cable Factor<br>[dB] | T159 BRF [dB] | dB(uVolts/m<br>eter) | E-Fields<br>[dBuV/m] -        | Average<br>Margin (dB) | E-Fields<br>[dBuV/m] -         | Peak Margin<br>(dB) | Height [cm] | Polarity |
|                | ***** 012                     | (dBuV)                     | PK       | [dB/m]                       | 25.7                     |                      | 0             | ** 04                | Avg                           | -8.03                  | Peak<br>74                     | 20.06               | 120         | · item   |
| 2              | 1174.813<br>4984.408          | 50.14<br>40.54             | PK<br>PK | 28.2<br>34.6                 | -35.7<br>-34.9           | 3.3<br>7.2           | 0.4           | 45.94<br>47.84       | 53.97<br>53.97                | -8.03<br>-6.13         | 74                             | -28.06<br>-26.16    | 100<br>100  | Horz     |
| *3             | 4984.408<br>5274.663          | 39.12                      | PK<br>PK | 34.6                         | -34.9                    | 7.2                  | 0.4           | 47.84                | 53.97                         | -0.13                  | /4                             | -20.10              | 100         | Horz     |
| 4              | 5502.249                      | 38.46                      | PK       | 34.9                         | -34.9                    | 7.6                  | 0.8           | 46.86                | -                             | -                      | 68.2                           | -21.34              | 100         | Horz     |
| ertical 1000 - | 7600MHz                       |                            |          |                              |                          |                      |               |                      |                               |                        |                                |                     |             |          |
| Marker No.     | Test Frequency                | Meter                      | Detector | T345 Ant                     | T145 Preamp              | Cable Factor         | T159 BRF [dB] | dB(uVolts/m          | E-Fields                      | Average                | E-Fields                       | Peak Margin         | Height [cm] | Polarity |
|                | (MHz)                         | Reading<br>(dBuV)          |          | Factor<br>[dB/m]             | Gain [dB]                | [dB]                 |               | eter)                | [dBuV/m] -<br>Avg             | Margin (dB)            | [dBuV/m] -<br>Peak             | (dB)                | ,           | ,        |
| 11             | 1300.15                       | 46.57                      | PK       | 28.5                         | -35.5                    | 3.5                  | 0             | 43.07                | 53.97                         | -10.9                  | 74                             | -30.93              | 100         | Vert     |
| 12             | 2022.489                      | 42.46                      | PK       | 31.8                         | -35                      | 4.2                  | 0             | 43.46                | -                             | -10.5                  | 68.2                           | -24.74              | 100         | Vert     |
| *13            | 5264.768                      | 39.55                      | PK       | 34.9                         | -34.9                    | 7.4                  | 0.9           | 47.85                | -                             | -                      | -                              | -                   | 200         | Vert     |
| Iorizontal 760 | 00 - 18000MHz                 |                            |          |                              |                          |                      |               |                      |                               |                        |                                |                     |             |          |
| Marker No.     | Test Frequency                | Meter                      | Detector | T345 Ant                     | T145 Preamp              |                      | T192 BRF [dB] |                      | E-Fields                      | Average                | E-Fields                       | Peak Margin         | Height [cm] | Polarity |
|                | (MHz)                         | Reading<br>(dBuV)          |          | Factor<br>[dB/m]             | Gain [dB]                | [dB]                 |               | eter)                | [dBuV/m] -<br>Avg             | Margin (dB)            | [dBuV/m] -<br>Peak             | (dB)                |             |          |
| 5              | 10546.927                     | 39.6                       | PK       | 38.2                         | -34.3                    | 10.8                 | 0.2           | 54.5                 |                               |                        | 68.2                           | -13.7               | 200         | Horz     |
| 6              | 15817.091                     | 38.24                      | PK       | 41.4                         | -32.9                    | 13.6                 | 0.3           | 60.64                |                               | -                      | 74                             | -13.36              | 100         | Horz     |
| 7              | 17792.104                     | 33.87                      | PK       | 42.2                         | -31.4                    | 14.7                 | 0             | 59.37                | •                             |                        | 74                             | -14.63              | 100         | Horz     |
| ertical 7600 - | 190008444                     |                            |          |                              |                          |                      |               |                      |                               |                        |                                |                     | $\vdash$    |          |
| Marker No.     | Test Frequency                | Meter                      | Detector | T345 Ant                     | T145 Preamp              | Cable Factor         | T192 BRF [dB] | dR/uVolts/m          | E-Fields                      | Average                | E-Fields                       | Peak Margin         | Height [cm] | Polarity |
| marker No.     | (MHz)                         | Reading<br>(dBuV)          | Detector | Factor                       | Gain [dB]                | [dB]                 | TISE DIG [GD] | eter)                | [dBuV/m] -                    | Margin (dB)            | [dBuV/m] -<br>Peak             | (dB)                | neight (em) | rolant   |
| 14             | 10536.532                     | 39.48                      | PK       | [dB/m]<br>38.2               | -34.4                    | 10.7                 | 0.2           | 54.18                | Avg                           |                        | 68.2                           | -14.02              | 200         | Vert     |
| 15             | 15796.302                     | 37.6                       | PK       | 41.4                         | -32.9                    | 13.6                 | 0.3           | 60                   | -                             |                        | 74                             | -14.02              | 200         | Vert     |
|                |                               |                            |          |                              |                          |                      |               |                      |                               |                        |                                |                     |             |          |
|                | 000 - 18000MHz                |                            |          |                              | I                        |                      |               |                      |                               |                        |                                |                     |             |          |
| Marker No.     | Test Frequency<br>(MHz)       | Meter<br>Reading<br>(dBuV) | Detector | T345 Ant<br>Factor<br>[dB/m] | T145 Preamp<br>Gain [dB] | [dB]                 | T192 BRF [dB] | eter)                | E-Fields<br>[dBuV/m] -<br>Avg | Average<br>Margin (dB) | E-Fields<br>[dBuV/m] -<br>Peak | Peak Margin<br>(dB) | Height [cm] | Polarity |
| 8              | 10546.927                     | 28.91                      | PK       | 38.2                         | -34.3                    | 10.8                 | 0.2           | 43.81                | -                             | -                      | 68.2                           | -24.39              | 200         | Horz     |
| 9              | 15817.091                     | 29.27                      | PK       | 41.4                         | -32.9                    | 13.6                 | 0.3           | 51.67                | 53.97                         | -2.3                   | 74                             | -22.33              | 100         | Horz     |
| 10             | 17792.104                     | 22.06                      | PK       | 42.2                         | -31.3                    | 14.8                 | 0.4           | 48.16                | 53.97                         | -5.81                  | 74                             | -25.84              | 200         | Horz     |
| ertical 10000  | - 18000MHz                    |                            |          |                              |                          |                      |               |                      |                               |                        |                                |                     |             |          |
| Marker No.     | Test Frequency                | Meter                      | Detector | T345 Ant                     | T145 Preamp              | Cable Factor         | T192 BRF [dB] | dB(uVolts/m          | E-Fields                      | Average                | E-Fields                       | Peak Margin         | Height [cm] | Polarity |
|                | (MHz)                         | Reading<br>(dBuV)          |          | Factor<br>[dB/m]             | Gain [dB]                | [dB]                 |               | eter)                | [dBuV/m] -<br>Avg             | Margin (dB)            | [dBuV/m] -<br>Peak             | (dB)                |             |          |
| 16             | 10536.532                     | 28.85                      | PK       | 38.2                         | -34.4                    | 10.7                 | 0.2           | 43.55                | 53.97                         | -10.42                 | 74                             | -30.45              | 200         | Vert     |
| 17             | 15796.302                     | 31.08                      | PK       | 41.4                         | -32.9                    | 13.6                 | 0.3           | 53.48                | 53.97                         | -0.49                  | 74                             | -20.52              | 200         | Vert     |
| lorizontal 100 | 000 - 18000MHz                |                            |          |                              |                          |                      |               |                      |                               |                        |                                |                     |             |          |
| Marker No.     | Test Frequency                | Meter                      | Detector | T345 Ant                     | T145 Preamp              | Cable Factor         | T159 BRF [dB] | dB(uVolts/m          | E-Fields                      | Average                | E-Fields                       | Peak Margin         | Height [cm] | Polarity |
|                | (MHz)                         | Reading                    | 221200   | Factor                       | Gain [dB]                | [dB]                 | Las em [de]   | eter)                | [dBuV/m] -                    | Margin (dB)            | [dBuV/m] -                     | (dB)                |             | . Junity |
| 9              | 15812.834                     | (dBuV)<br>26.11            | Av       | [dB/m]<br>41.4               | -32.9                    | 13.6                 | 0.3           | 48.51                | Avg<br>53.97                  | -5.46                  | Peak<br>-                      | -                   | 129         | Horz     |
|                |                               |                            |          |                              |                          |                      |               |                      |                               |                        |                                |                     |             |          |
| ertical 10000  |                               |                            |          |                              |                          |                      |               |                      |                               |                        |                                |                     |             |          |
| Marker No.     | Test Frequency<br>(MHz)       | Meter<br>Reading           | Detector | T345 Ant<br>Factor           | T145 Preamp<br>Gain [dB] | Cable Factor<br>[dB] | T159 BRF [dB] | dB(uVolts/m<br>eter) | E-Fields<br>[dBuV/m] -        | Average<br>Margin (dB) | E-Fields<br>[dBuV/m] -         | Peak Margin<br>(dB) | Height [cm] | Polarity |
|                | 45705 70                      | (dBuV)                     |          | [dB/m]                       |                          |                      |               | 27.07                | Avg                           |                        | Peak                           |                     |             | 14       |
| 17             | 15796.79                      | 30.38                      | Av       | 38.2                         | -34.4                    | 10.7                 | 0.2           | 37.97                | 53.97                         | -16                    | _                              |                     | 200         | Vert     |

PK - Peak detector QP - Quasi-Peak detector Av - Average detector

### **HIGH CHANNEL GRAPH**



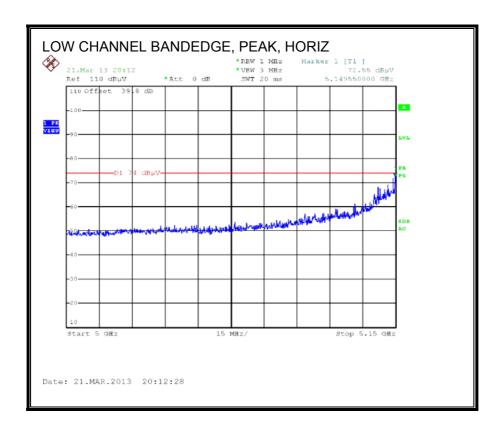


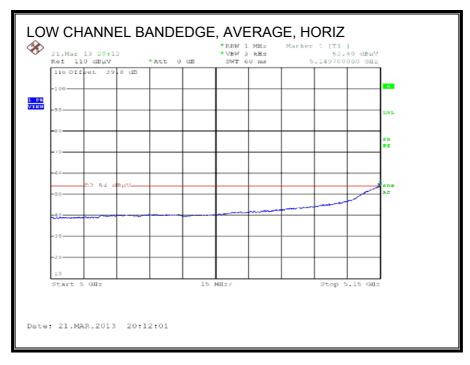
# **HIGH CHANNEL 62 DATA**

|                              | fig:DMW_W095<br>0 CDD MCS0 Ch   |                  |             |                    |                |              |               |                      |                   |                        |                    |                     |                                       |               |
|------------------------------|---------------------------------|------------------|-------------|--------------------|----------------|--------------|---------------|----------------------|-------------------|------------------------|--------------------|---------------------|---------------------------------------|---------------|
| Mode:Tx HT40<br>est By:Thanh |                                 | 52, 5310Win      |             |                    |                |              |               |                      |                   |                        |                    |                     |                                       |               |
| •                            | • •                             |                  |             |                    |                |              |               |                      |                   |                        |                    |                     |                                       |               |
|                              | 00 - 7600MHz                    | *                | T           |                    |                |              | Torr (dp)     | 1- lm                |                   | 1                      | T months           |                     | *                                     |               |
| Marker No.                   | Test                            | Meter            | Detector    | T345 Ant           | T145 Preamp    |              | T159 BRF [dB] |                      |                   | Average                | E-Fields           | Peak Margin         | Height [cm]                           | Polarity      |
| 1                            | Frequency                       | Reading          | 1           | Factor             | Gain [dB]      | [dB]         | 1             | eter)                | [dBuV/m] -        | Margin (dB)            |                    | (dB)                | 1                                     | i .           |
|                              | (MHz)                           | (dBuV)           | <del></del> | [dB/m]             |                | <del></del>  | <b>↓</b>      |                      | Avg               | 1 224                  | Peak               | 30.04               |                                       |               |
| 1                            | 1174.813                        | 49.86            | PK          | 28.2               | -35.7          | 3.3          | 0             | 45.66                | 53.97             | -8.31                  | 74                 | -28.34              | 100                                   | Horz          |
| 2                            | 5000.9                          | 40.47            | PK          | 34.6               | -34.9          | 7.2          | 0.7           | 48.07                | 53.97             | -5.9                   | 74<br>69.2         | -25.93              | 200                                   | Horz          |
| 3                            | 5324.138                        | 42.63            | PK          | 34.9               | -34.9          | 7.5          | 0.9           | 51.03                | -                 | -                      | 68.2               | -17.17              | 200                                   | Horz          |
| ertical 1000 -               | TOORALLY                        |                  |             |                    |                |              |               |                      |                   |                        |                    |                     | 1                                     |               |
| Marker No.                   | Test                            | Meter            | Detector    | T345 Ant           | T145 Preamp    | Cable Factor | T159 BRF [dB] | de/us/olts/m         | E-Fields          | Average                | E-Fields           | Peak Margin         | Height [cm]                           | Polarity      |
| Marker I.c.                  | Frequency                       | Meter<br>Reading | Detecto.    | T345 Ant<br>Factor | Gain [dB]      | [dB]         | 112a per fac. | dB(uVolts/m<br>eter) | [dBuV/m] -        | Average<br>Margin (dB) |                    | Peak Margin<br>(dB) | Height te                             | Poterra,      |
| 1                            | (MHz)                           | (dBuV)           | 1           | [dB/m]             | Gam ten.       | land         | 1             | ( eter,              | [dBuV/m] -<br>Avg | Margin (u.,            | [dBuV/m] -<br>Peak | (uo)                | 1                                     | į.            |
| 8                            | (MHz)<br>1273.763               | (dBuV)<br>46.51  | PK          | 28.6               | -35.6          | 3.4          | 0             | 42.91                | мъв               | +                      | 68.2               | -25.29              | 100                                   | Vert          |
| 9                            | 1662.969                        | 46.51            | PK<br>PK    | 28.6               | -35.6<br>-35.1 | 3.4          | 0             | 42.91                | 53.97             | -10.86                 | 74                 | -25.29              | 100                                   | Vert          |
| 10                           | 1662.969<br>5327.436            | 44.91            | PK<br>PK    | 34.9               | -35.1<br>-34.9 | 7.5          | 0.9           | 43.11                | 53.97             | -10.86                 | 68.2               | -30.89<br>-19.59    | 200                                   | Vert          |
| 10                           | 5527.400                        | 40.22            | Fn          | 34.5               | -04.5          | /100         | 0.5           | 40.01                | <del></del>       | +                      | U0-2               | -15:00              | 200                                   | V 10.1.       |
| izontal 760                  | 00 - 18000MHz                   |                  |             |                    |                |              |               |                      |                   |                        |                    |                     | <del></del>                           |               |
| Marker No.                   | Test                            | Meter            | Detector    | T345 Ant           | T145 Preamp    | Cable Factor | T192 BRF [dB] | 4n/uVolts/m          | E-Fields          | Average                | E-Fields           | Peak Margin         | Height [cm]                           | Polarity      |
| Walker 140.                  | Frequency                       | Reading          | Detector    | Factor             | Gain [dB]      | [dB]         | 1192 pur fan, | eter)                | [dBuV/m] -        | Margin (dB)            | 1                  | (dB)                | Height (cm)                           | Polari,       |
|                              | (MHz)                           | (dBuV)           | 1 '         | [dB/m]             | Gamilan        | [uo]         | 1 -           | etery                | Avg               | Ividigin (up)          | Peak               | (ub)                | 1 1                                   | i .           |
| 4                            | 10614.493                       | 37.82            | PK          | 38.2               | -34.3          | 10.8         | 0.4           | 52.92                | Avg               | +                      | 74                 | -21.08              | 200                                   | Horz          |
| 5                            | 15921.039                       | 35.84            | PK          | 41.5               | -34.3          | 13.7         | 0.4           | 58.44                | -                 | -                      | 74                 | -21.08              | 100                                   | Horz          |
|                              | 13322                           | 35.0.            |             | -                  | -              |              |               | 3000                 |                   |                        |                    |                     |                                       |               |
| /ertical 7600 -              | - 18000MHz                      |                  |             |                    |                |              |               |                      |                   |                        |                    |                     |                                       |               |
| Marker No.                   | Test                            | Meter            | Detector    | T345 Ant           | T145 Preamp    | Cable Factor | T192 BRF [dB] | dB(uVolts/m          | E-Fields          | Average                | E-Fields           | Peak Margin         | Height [cm]                           | Polarity      |
|                              | Frequency                       | Reading          | 1           | Factor             | Gain [dB]      | [dB]         | 1             | eter)                | [dBuV/m] -        | Margin (dB)            |                    | (dB)                |                                       | 1             |
| !                            | (MHz)                           | (dBuV)           | 1'          | [dB/m]             |                | 1            | 1/            | 1                    | Avg               |                        | Peak               | · · · _ ·           |                                       |               |
| 11                           | 10609.295                       | 38.01            | PK          | 38.2               | -34.3          | 10.8         | 0.4           | 53.11                |                   |                        | 74                 | -20.89              | 200                                   | Vert          |
| 12                           | 15905.447                       | 34.36            | PK          | 41.5               | -32.9          | 13.7         | 0.2           | 56.86                | -                 | -                      | 74                 | -17.14              | 100                                   | Vert          |
|                              |                                 |                  |             |                    |                |              |               |                      |                   |                        |                    |                     |                                       | $\overline{}$ |
|                              | 000 - 18000MHz                  |                  |             |                    | _              |              |               |                      |                   | _                      |                    | _                   |                                       |               |
| Marker No.                   | Test                            | Meter            | Detector    | T345 Ant           | T145 Preamp    |              | T192 BRF [dB] | 1 ' '                | E-Fields          | Average                | E-Fields           | Peak Margin         | Height [cm]                           | Polarity      |
| ,                            | Frequency                       | Reading          | 1           | Factor             | Gain [dB]      | [dB]         | 1 1           | eter)                | [dBuV/m] -        | Margin (dB)            |                    | (dB)                | 1                                     | i .           |
|                              | (MHz)                           | (dBuV)           | Ĺ'          | [dB/m]             |                | L            |               |                      | Avg               |                        | Peak               | L                   |                                       | L             |
| 6                            | 10619.69                        | 27.97            | PK          | 38.2               | -34.3          | 10.8         | 0.3           | 42.97                | 53.97             | -11                    | 74                 | -31.03              | 200                                   | Horz          |
| 7                            | 15933.033                       | 26.49            | PK          | 41.5               | -32.9          | 13.7         | 0.3           | 49.09                | 53.97             | -4.88                  | 74                 | -24.91              | 100                                   | Horz          |
|                              |                                 |                  |             |                    |                |              |               | لست                  |                   |                        |                    |                     |                                       |               |
| /ertical 10000               |                                 |                  |             |                    |                |              |               |                      |                   |                        |                    |                     |                                       |               |
| Marker No.                   | Test                            | Meter            | Detector    | T345 Ant           | T145 Preamp    |              | T192 BRF [dB] |                      | E-Fields          | Average                | E-Fields           | Peak Margin         | Height [cm]                           | Polarity      |
| ,                            | Frequency                       | Reading          | 1           | Factor             | Gain [dB]      | [dB]         | 1 1           | eter)                | [dBuV/m] -        | Margin (dB)            |                    | (dB)                | 1                                     | i.            |
|                              | (MHz)                           | (dBuV)           | <u> </u>    | [dB/m]             | <u> </u>       | <del></del>  | <del></del>   |                      | Avg               | 1                      | Peak               |                     | 1                                     |               |
| 13                           | 10619.69                        | 29.09            | PK          | 38.2               | -34.3          | 10.8         | 0.3           | 44.09                | 53.97             | -9.88                  | 74                 | -29.91              | 200                                   | Vert          |
| 14                           | 15937.031                       | 28.59            | PK          | 41.5               | -32.9          | 13.7         | 0.3           | 51.19                | 53.97             | -2.78                  | 74                 | -22.81              | 200                                   | Vert          |
|                              |                                 |                  |             |                    |                |              |               |                      |                   |                        |                    |                     | $\perp$                               |               |
|                              | 000 - 18000MHz                  |                  |             |                    |                | ter          | (dp)          |                      |                   |                        | 1 11 14            |                     | · · · · · · · · · · · · · · · · · · · | - t-de        |
| Marker No.                   | Test                            | Meter            | Detector    | T345 Ant           | T145 Preamp    |              | T192 BRF [dB] | 1 ' '                | E-Fields          | Average                | E-Fields           | Peak Margin         | Height [cm]                           | Polarity      |
|                              | Frequency                       | Reading          | 1           | Factor             | Gain [dB]      | [dB]         | 1             | eter)                | [dBuV/m] -        | Margin (dB)            |                    | (dB)                | 1                                     | i.            |
|                              | (MHz)                           | (dBuV)           | <del></del> | [dB/m]             |                |              | <del></del>   |                      | Avg               | <u> </u>               | Peak               |                     | 1                                     |               |
| 7                            | 15939.846                       | 26.67            | Av          | 41.5               | -32.9          | 13.7         | 0.4           | 49.37                | 53.97             | -4.6                   |                    |                     | 168                                   | Horz          |
|                              |                                 |                  |             |                    |                |              |               |                      |                   |                        |                    |                     | $\perp$                               |               |
| 1.0000                       |                                 |                  | -           |                    |                | ·to-         | - r f dp.)    | **- I                |                   |                        | * ***              |                     | 1 1 1 1 mal 1                         | te            |
|                              | Test                            | Meter            | Detector    | T345 Ant           | T145 Preamp    |              | T192 BRF [dB] |                      | E-Fields          | Average                | E-Fields           | Peak Margin         | Height [cm]                           | Polarity      |
| Vertical 10000<br>Marker No. |                                 | Reading          | 1 .         | Factor             | Gain [dB]      | [dB]         | 1             | eter)                | [dBuV/m] -        | Margin (dB)            |                    | (dB)                | 1                                     | i.            |
|                              | Frequency                       |                  | ١.,         |                    |                |              | 4             | 4                    | f Aug             | 1 .                    | Peak               | 1                   | 1                                     |               |
|                              | Frequency<br>(MHz)<br>10634.909 | (dBuV)<br>34.45  | Av          | [dB/m]<br>38.3     | -34.3          | 10.8         | 0.2           | 49.45                | Avg<br>53.97      | -4.52                  | Peak               | $\leftarrow$        | 126                                   | Vert          |

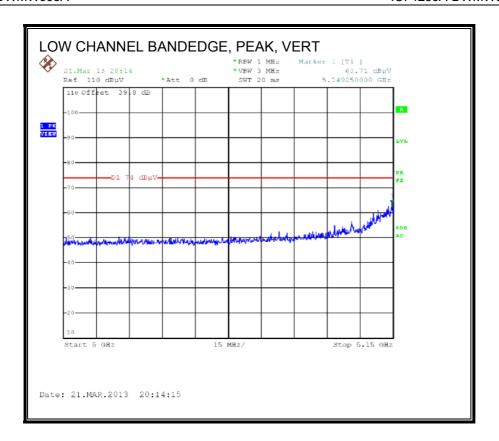
### 9.11. 802.11n HT40 SDM MCS8 2TX MODE IN THE 5.3 GHz BAND

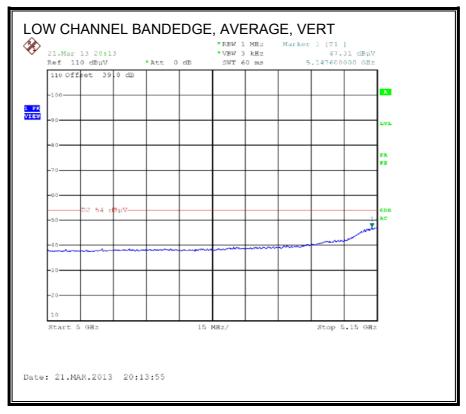
# **AUTHORIZED BANDEDGE (LOW CHANNEL)**



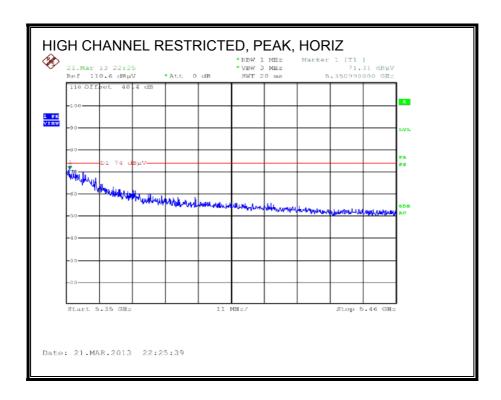


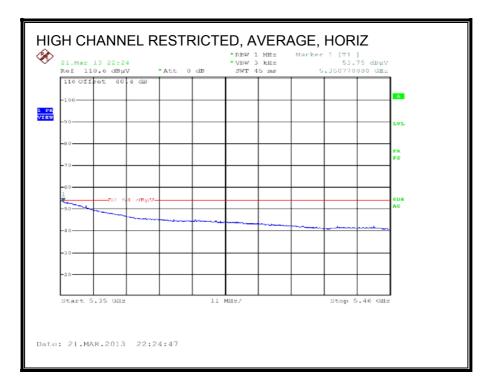
Page 338 of 429

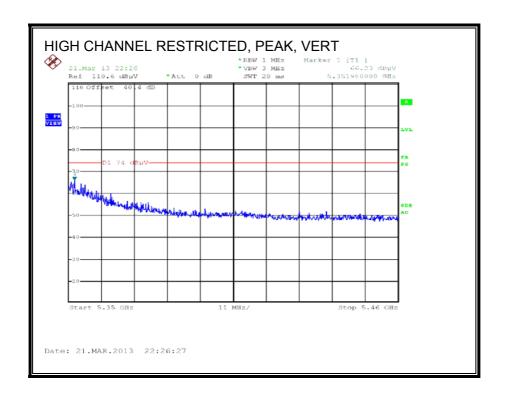


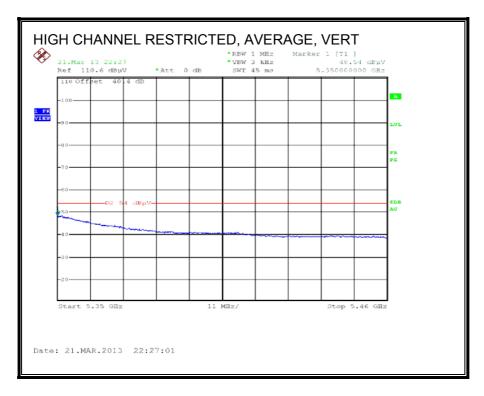


#### **RESTRICTED BANDEDGE (HIGH CHANNEL)**

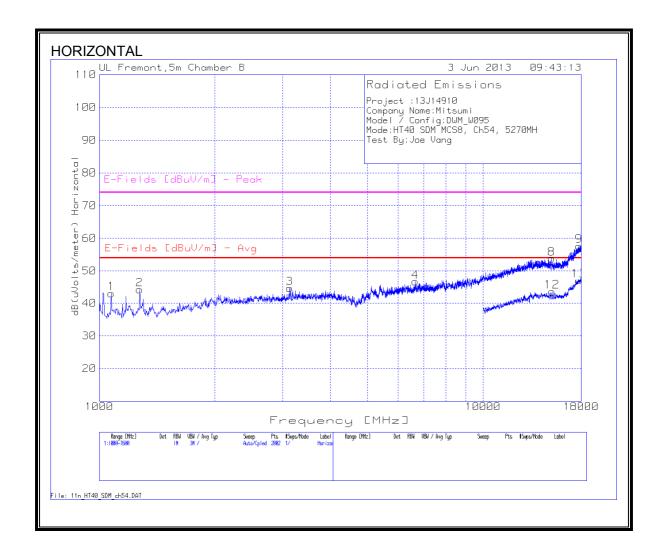


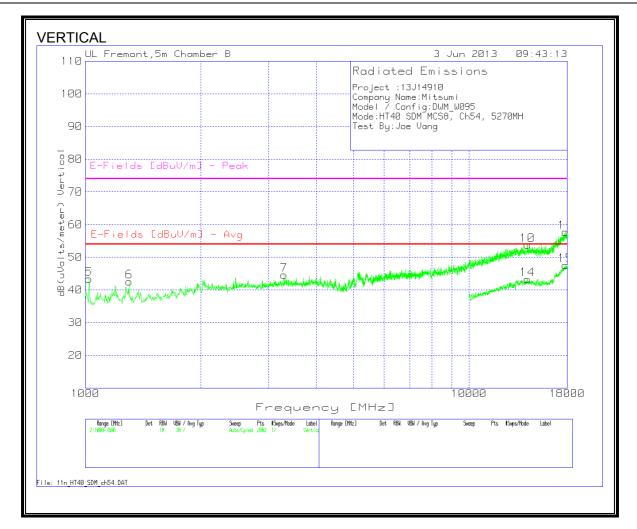






### **LOW CHANNEL GRAPH**





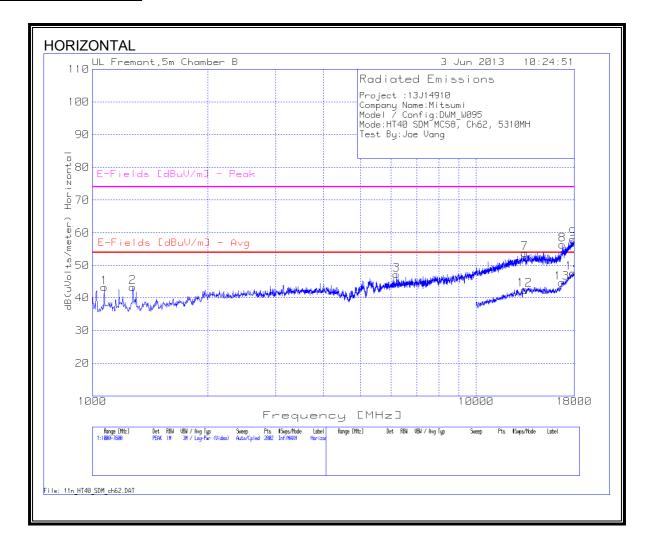
### **LOW CHANNEL 54 DATA**

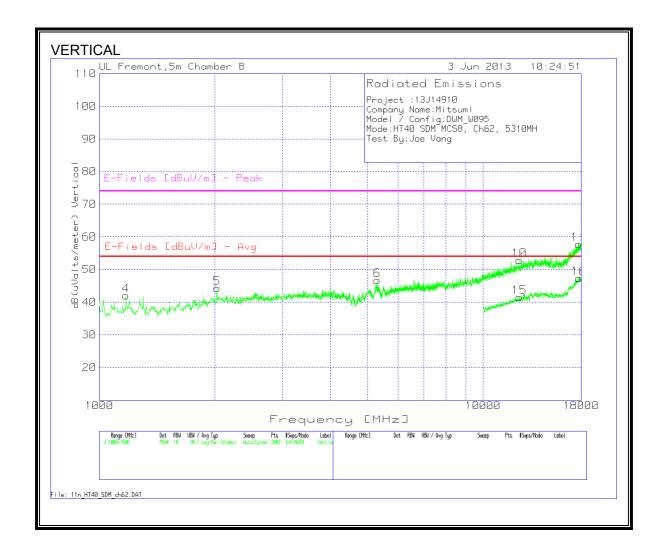
|                            | Name:Mits                                      |                                  |          |                    |                     |                 |                  |                |                        |                |                   |                  |                |              |
|----------------------------|--|----------------------------------|----------|--------------------|---------------------|-----------------|------------------|----------------|------------------------|----------------|-------------------|------------------|----------------|--------------|
|                            | Config:DWM                                     | _                                |          |                    |                     |                 |                  |                |                        |                |                   |                  |                |              |
| Mode:HT<br>Fest By:Jo      | 40 SDM MCS                                     | 58, Ch54, 5                      | 270MH    |                    |                     |                 |                  |                |                        |                |                   |                  |                |              |
| rest by 50                 | oe valig                                       |                                  |          |                    |                     |                 |                  |                |                        |                |                   |                  |                |              |
| Horizonta                  | al 1000 - 7600                                 | MHz                              |          |                    |                     |                 |                  |                |                        |                |                   |                  |                |              |
| Marker                     | Test   | Meter                            | Detector | T345 Ant           | T145                | Cable           | T159 BRF         | dB(uVolts      | E-Fields               | Margin         | E-Fields          | Margin           | Height         | Polarit      |
| No.                        | Frequency                                      | Reading                          |          | Factor             | Preamp              | Factor          | [dB]             | /meter)        | [dBuV/m] -             | (dB)           | [dBuV/m]          | (dB)             | [cm]           |              |
|                            | (MHz)  | (dBuV)                           |          | [dB/m]             | Gain [dB]           | [dB]            |                  |                | Avg                    |                | Peak              |                  |                |              |
| 1                          | 1075.862                                       | 47.93                            | PK       | 27.8               | -35.9               | 3.2             | 0                | 43.03          | 53.97                  | -10.94         | 74                | -30.97           | 100            | Horz         |
| 2                          | 1273.763                                       | 47.83                            | PK       | 28.6               | -35.6               | 3.4             | 0                | 44.23          | 53.97                  | -9.74          | 74                | -29.77           | 100            | Horz         |
| 3                          | 3137.331                                       | 41.16                            | PK       | 33.2               | -35.2               | 5.4             | 0                | 44.56          | -                      | -              | 68.2              | -23.64           | 100            | Horz         |
| 4                          | 6650.075                                       | 37.38                            | PK       | 35.8               | -35                 | 8.4             | 0.1              | 46.68          | -                      | -              | 68.2              | -21.52           | 100            | Horz         |
|                            |  |                                  |          |                    |                     |                 |                  |                |                        |                |                   |                  |                |              |
|                            | .000 - 7600M                                   |                                  |          |                    |                     |                 |                  |                |                        | •              |                   |                  |                |              |
| Marker<br>No.              | Test   | Meter<br>Reading                 | Detector | T345 Ant<br>Factor | T145                | Cable<br>Factor | T159 BRF<br>[dB] | dB(uVolts      | E-Fields<br>[dBuV/m] - | Margin         | E-Fields [dBuV/m] | Margin           | Height         | Polarity     |
| NO.                        | Frequency<br>(MHz)                             | (dBuV)                           |          | [dB/m]             | Preamp<br>Gain [dB] | [dB]            | Labi             | /meter)        | Avg                    | (dB)           | Peak              | (dB)             | [cm]           |              |
|                            | ()   | (abat)                           |          | [00,]              | Guiii [ub]          | [uo]            |                  |                | A. B                   |                | l can             |                  |                |              |
| 5                          | 1023.088                                       | 48.68                            | PK       | 27.5               | -36                 | 3.2             | 0                | 43.38          | 53.97                  | -10.59         | 74                | -30.62           | 200            | Vert         |
| 6                          | 1300.15  | 46.1                             | PK       | 28.5               | -35.5               | 3.5             | 0                | 42.6           | 53.97                  | -11.37         | 74                | -31.4            | 100            | Vert         |
| 7                          | 3292.354                                       | 40.77                            | PK       | 33.3               | -35.1               | 5.5             | 0.1              | 44.57          | -                      | -              | 68.2              | -23.63           | 200            | Vert         |
| Horizonts                  | l 7600 - 1800                                  | OMU2                             |          |                    |                     |                 |                  |                |                        |                |                   |                  |                |              |
| Marker                     | Test   | Meter                            | Detector | T345 Ant           | T145                | Cable           | T192 BRF         | dB(uVolts      | E-Fields               | Margin         | E-Fields          | Margin           | Height         | Polarit      |
| No.                        | Frequency                                      | Reading                          | Detector | Factor             | Preamp              | Factor          | [dB]             | /meter)        | [dBuV/m] -             | (dB)           | [dBuV/m]          | (dB)             | [cm]           | loiding      |
|                            | (MHz)  | (dBuV)                           |          | [dB/m]             | Gain [dB]           | [dB]            |                  | ,              | Avg                    | , ,            | Peak              |                  |                |              |
|                            |  |                                  |          |                    |                     |                 |                  |                |                        |                |                   |                  |                |              |
| 8                          | 15089.455                                      | 32.75                            | PK       | 40.1               | -32.9               | 13.2            | 0.6              | 53.75          | -                      | -              | 68.2              | -14.45           | 200            | Horz         |
| 9                          | 17766.117                                      | 31.83                            | PK       | 42.2               | -31.4               | 14.7            | 0.3              | 57.63          | -                      | -              | 74                | -16.37           | 200            | Horz         |
| Vertical 7                 | 600 - 18000N                                   | ИHz                              |          | l                  |                     |                 |                  |                |                        |                |                   |                  |                |              |
| Marker                     | Test   | Meter                            | Detector | T345 Ant           | T145                | Cable           | T192 BRF         | dB(uVolts      | E-Fields               | Margin         | E-Fields          | Margin           | Height         | Polarity     |
| No.                        | Frequency                                      | Reading                          |          | Factor             | Preamp              | Factor          | [dB]             | /meter)        | [dBuV/m] -             | (dB)           | [dBuV/m]          | (dB)             | [cm]           |              |
|                            | (MHz)  | (dBuV)                           |          | [dB/m]             | Gain [dB]           | [dB]            |                  |                | Avg                    |                | Peak              |                  |                |              |
| 10                         | 14105 502                                      | 22.25                            | DV       | 20.5               | 22.2                | 12.0            | 0.4              | E2 7E          | -                      | _              | 60.2              | 14 AE            | 100            | Vort         |
| 10<br>11                   | 14195.502<br>17818.091                         | 33.35<br>32.18                   | PK<br>PK | 39.5<br>42.2       | -32.3<br>-31.4      | 12.8<br>14.7    | 0.4              | 53.75<br>57.68 | -                      | -              | 68.2<br>74        | -14.45<br>-16.32 | 100<br>200     | Vert<br>Vert |
|                            | 170201032                                      | 52.120                           |          | 72.12              | 52.7                | 2417            | <u> </u>         | 07.00          |                        |                |                   | 20.02            | 200            | 70.0         |
| Horizonta                  | l 10000 - 180                                  | 000MHz                           |          |                    |                     |                 |                  |                |                        |                |                   |                  |                |              |
| Marker                     | Test   | Meter                            | Detector | T345 Ant           | T145                | Cable           | T192 BRF         | dB(uVolts      | E-Fields               | Margin         | E-Fields          | Margin           | Height         | Polarity     |
| No.                        | Frequency                                      | Reading                          |          | Factor             | Preamp              | Factor          | [dB]             | /meter)        | [dBuV/m] -             | (dB)           | [dBuV/m]          | (dB)             | [cm]           |              |
|                            | (MHz)  | (dBuV)                           |          | [dB/m]             | Gain [dB]           | [dB]            |                  |                | Avg                    |                | Peak              |                  |                |              |
|                            | 1  | 22.72                            | PK       | 40.1               | -32.9               | 13.2            | 0.4              | 43.58          | _                      |                | 68.2              | -24.62           | 100            | Horz         |
| 12                         | 15105 447                                      | 22.7X                            |          |                    | 52.5                |                 | 0.2              | 47.02          | 53.97                  | -6.95          | 74                | -26.98           | 100            | Horz         |
| 12<br>13                   | 15105.447<br>17776.112                         | 22.78<br>21.32                   | PK       | 42.2               | -31.4               | 14.7            | 0.2              |                |                        |                |                   |                  |                | _            |
|                            | 15105.447<br>17776.112                         | 21.32                            |          | 42.2               | -31.4               | 14.7            | 0.2              | 47.102         |                        |                |                   |                  |                |              |
| 13<br>Vertical 1           |  | 21.32<br>MHz                     | PK       |                    |                     |                 |                  |                |                        |                |                   |                  |                |              |
| 13<br>Vertical 1<br>Marker | 17776.112<br>0000 - 18000<br>Test              | 21.32<br>MHz<br>Meter            |          | T345 Ant           | T145                | Cable           | T192 BRF         | dB(uVolts      | E-Fields               | Margin         | E-Fields          | Margin           | Height         | Polarity     |
| 13<br>Vertical 1           | 17776.112<br>0000 - 18000<br>Test<br>Frequency | 21.32<br>MHz<br>Meter<br>Reading | PK       | T345 Ant<br>Factor | T145<br>Preamp      | Cable<br>Factor |                  |                | E-Fields<br>[dBuV/m] - | Margin<br>(dB) | [dBuV/m]          | Margin<br>(dB)   | Height<br>[cm] | Polarit      |
| 13<br>Vertical 1<br>Marker | 17776.112<br>0000 - 18000<br>Test              | 21.32<br>MHz<br>Meter            | PK       | T345 Ant           | T145                | Cable           | T192 BRF         | dB(uVolts      | E-Fields               |                |                   |                  |                | Polarity     |
| 13<br>Vertical 1<br>Marker | 17776.112<br>0000 - 18000<br>Test<br>Frequency | 21.32<br>MHz<br>Meter<br>Reading | PK       | T345 Ant<br>Factor | T145<br>Preamp      | Cable<br>Factor | T192 BRF         | dB(uVolts      | E-Fields<br>[dBuV/m] - |                | [dBuV/m]          |                  |                | Polarity     |

Page 344 of 429

PK - Peak detector QP - Quasi-Peak detector Av - Average detector

HIGH CHANNEL GRAPH





#### **HIGH CHANNEL 62 DATA**

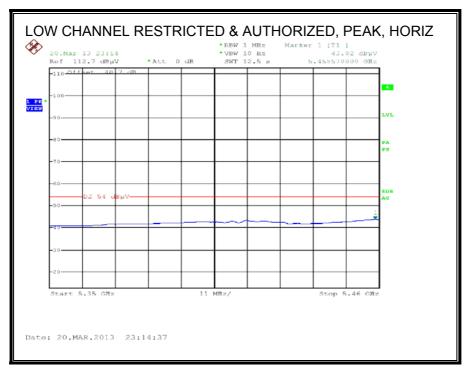
| Config:DWM   | umi<br>I_W095   |   |   |  |  |  |   |   |                    |  |   |   |  |
|--|---|---|---|--|--|--|---|---|--------------------|--|---|---|--|
| 40 SDM MCS   | _   | 310MH   |   |  |  |  |   |   |                    |  |   |   |  |
| oe Vang  |   |   |   |  |  |  |   |   |                    |  |   |   |  |
| 11000 7600   | ORALI-  |   |   |  |  |  |   |   |                    |  |   |   |  |
|  |   | Detector  | T24E Ant  | T1/IE  | Cable  | T1E0 DDE   | dP/uVolte   | E-Eiolde  | Margin             | E-Eiolde   | Margin  | Height  | Polarit  |
|  |   | Detector  |   |  |  | 1  |   |   | _                  |  | _   | _   | Folanic  |
| (MHz)  | (dBuV)  |   | [dB/m]  | Gain [dB]  | [dB]   | ,  | ,,  | - Avg   | ()                 | - Peak   | ()  | ,   |  |
| 1075.862   | 48.09   | PK  | 27.8  | -35.9  | 3.2  | 0  | 43.19   | 53.97   | -10.78             | 74   | -30.81  | 100   | Horz   |
| 1273.763   | 46.82   | PK  | 28.6  | -35.6  | 3.4  | 0  | 43.22   | 53.97   | -10.75             | 74   | -30.78  | 100   | Horz   |
| 6204.798   | 38.01   | PK  | 36  | -34.9  | 8.1  | 0  | 47.21   | 53.97   | -6.76              | 74   | -26.79  | 100   | Horz   |
|  |   |   |   |  |  |  |   |   |                    |  |   |   |  |
| _  |   | Dotostor  | T24F Ant  | Т14Г   | Cablo  | T1FO DDF   | dD/uV/olts  | r riolds  | Margin             | r riolds   | Margin  | Unight  | Polarit  |
| 1  | 1   | Detector  |   |  |  | 1  |   |   | _                  |  | _   | _   | Polaric  |
| (MHz)  | (dBuV)  |   | [dB/m]  | Gain [dB]  | [dB]   | [db]   | , meter,  | - Avg   | (db)               | - Peak   | (db)  | [ciii]  |  |
| 1174.813   | 46.28   | PK  | 28.2  | -35.7  | 3.3  | 0  | 42.08   | 53.97   | -11.89             | 74   | -31.92  | 100   | Vert   |
| 2025.787   | 43.35   | PK  | 31.8  | -35  | 4.2  | 0  | 44.35   | -   | -                  | 68.2   | -23.85  | 200   | Vert   |
| 5294.453   | 38.47   | PK  | 34.9  | -34.9  | 7.4  | 0.9  | 46.77   | -   | -                  | 68.2   | -21.43  | 100   | Vert   |
|  |   |   |   |  |  |  |   |   |                    |  |   |   |  |
| _  |   | Detector  | T24F Ant  | TAAF   | Cabla  | T402 DDF   | dD/v3/alta  | r cialda  | Marrin             | r rialda   | Marrin  | Height  | Polarit  |
| Frequency  | Reading   | Detector  | Factor  | Preamp   | Factor   | [dB]   | /meter)   | [dBuV/m]  | (dB)               | [dBuV/m]   | (dB)  | [cm]  | Polaric  |
| (IVIHZ)  | (aBuv)  |   | [aB/m]  | Gain [dB]  | [aB]   |  |   | - AVg   |                    | - Peak   |   |   |  |
| 13384.708  | 34.06   | PK  | 39.1  | -31.9  | 12.3   | 0.2  | 53.76   | -   | -                  | 74   | -20.24  | 100   | Horz   |
| 16752.624  | 32.34   | PK  | 41.6  | -32.1  | 14.1   | 0.4  | 56.34   | -   | -                  | 68.2   | -11.86  | 100   | Horz   |
| 17859.67   | 31.97   | PK  | 42.2  | -31.3  | 14.8   | 0.4  | 58.07   | -   | -                  | 74   | -15.93  | 200   | Horz   |
|  |   |   |   |  |  |  |   |   |                    |  |   |   |  |
| 600 - 12000F   | ALI-  |   |   |  |  |  |   |   |                    |  |   |   |  |
| _  |   |   |   |  |  |  |   |   |                    |  |   |   |  |
| Test   | Meter   | Detector  | T345 Ant  | T145   | Cable  | T192 BRF   | dB(uVolts   | E-Fields  | Margin             | E-Fields   | Margin  | Height  | Polarit  |
| _  | Meter   | Detector  | T345 Ant<br>Factor<br>[dB/m]  | T145<br>Preamp<br>Gain [dB]  | Cable<br>Factor<br>[dB]  | T192 BRF<br>[dB]   | dB(uVolts<br>/meter)  | E-Fields<br>[dBuV/m]<br>- Avg   | Margin<br>(dB)     | E-Fields<br>[dBuV/m]<br>- Peak   | Margin<br>(dB)  | Height<br>[cm]                                | Polarit  |
| Test<br>Frequency<br>(MHz)   | Meter<br>Reading<br>(dBuV)  |   | Factor<br>[dB/m]  | Preamp<br>Gain [dB]  | Factor<br>[dB]   | [dB]   | /meter)   | [dBuV/m]  | _                  | [dBuV/m]<br>- Peak   | (dB)  | [cm]  |  |
| Test<br>Frequency  | Meter<br>Reading  | PK<br>PK  | Factor  | Preamp   | Factor   | 1  | 1 . 1   | [dBuV/m]<br>- Avg   | _                  | [dBuV/m]   | _   | _   | Vert   |
| Test<br>Frequency<br>(MHz)   | Meter<br>Reading<br>(dBuV)  | PK  | Factor<br>[dB/m]  | Preamp<br>Gain [dB]  | Factor<br>[dB]   | [dB]   | /meter)   | [dBuV/m]<br>- Avg<br>-  | (dB)               | [dBuV/m]<br>- Peak<br>74   | (dB)  | [cm]  | Vert   |
| Test<br>Frequency<br>(MHz)<br>12412.794<br>17750.525   | Meter<br>Reading<br>(dBuV)<br>34.26<br>32   | PK<br>PK  | Factor<br>[dB/m]<br>39.2<br>42.2  | Preamp<br>Gain [dB]<br>-32.7<br>-31.4  | Factor [dB]  11.8  14.7  | (dB)<br>0.3<br>0.3   | /meter)  52.86  57.8  | [dBuV/m]<br>- Avg<br>-<br>-   | (dB)<br>-<br>-     | [dBuV/m]<br>- Peak<br>74<br>74   | -21.14<br>-16.2   | [cm]  | Vert   |
| Test<br>Frequency<br>(MHz)<br>12412.794<br>17750.525<br>al 10000 - 180<br>Test   | Meter<br>Reading<br>(dBuV)<br>34.26<br>32<br>000MHz<br>Meter  | PK  | Factor [dB/m] 39.2 42.2 T345 Ant  | Preamp<br>Gain [dB]<br>-32.7<br>-31.4  | 11.8<br>14.7<br>Cable  | 0.3<br>0.3   | /meter)  52.86  57.8  dB(uVolts   | [dBuV/m] - Avg  | (dB)               | [dBuV/m]<br>- Peak<br>74<br>74<br>E-Fields                                       | -21.14<br>-16.2   | [cm] 100 100 Height                           | Vert<br>Vert   |
| Test<br>Frequency<br>(MHz)<br>12412.794<br>17750.525   | Meter<br>Reading<br>(dBuV)<br>34.26<br>32   | PK<br>PK  | Factor<br>[dB/m]<br>39.2<br>42.2  | Preamp<br>Gain [dB]<br>-32.7<br>-31.4  | Factor [dB]  11.8  14.7  | (dB)<br>0.3<br>0.3   | /meter)  52.86  57.8  | [dBuV/m]<br>- Avg<br>-<br>-   | (dB)<br>-<br>-     | [dBuV/m]<br>- Peak<br>74<br>74   | -21.14<br>-16.2   | [cm]  | Vert<br>Vert   |
| Test Frequency (MHz)  12412.794 17750.525  al 10000 - 180 Test Frequency (MHz)   | Meter<br>Reading<br>(dBuV)<br>34.26<br>32<br>000MHz<br>Meter<br>Reading<br>(dBuV)   | PK PK Detector  | Factor [dB/m]  39.2  42.2  T345 Ant Factor [dB/m]   | Preamp<br>Gain [dB]<br>-32.7<br>-31.4<br>T145<br>Preamp<br>Gain [dB]   | 11.8<br>14.7<br>Cable<br>Factor  | 0.3<br>0.3<br>T192 BRF<br>[dB]                                     | /meter)  52.86  57.8  dB(uVolts /meter)   | [dBuV/m] - Avg E-Fields [dBuV/m] - Avg                                    | (dB)               | [dBuV/m] - Peak  74 74  E-Fields [dBuV/m] - Peak                                 | -21.14<br>-16.2<br>Margin<br>(dB)                               | 100<br>100<br>Height<br>[cm]                  | Vert<br>Vert<br>Polarit  |
| Test Frequency (MHz)  12412.794 17750.525  al 10000 - 180 Test Frequency   | Meter<br>Reading<br>(dBuV)<br>34.26<br>32<br>000MHz<br>Meter<br>Reading   | PK<br>PK  | Factor [dB/m]  39.2  42.2  T345 Ant Factor  | Preamp<br>Gain [dB]<br>-32.7<br>-31.4<br>T145<br>Preamp  | 11.8<br>14.7<br>Cable  | 0.3<br>0.3   | /meter)  52.86  57.8  dB(uVolts   | [dBuV/m] - Avg E-Fields [dBuV/m]  | (dB)               | [dBuV/m] - Peak  74 74  E-Fields [dBuV/m]  | -21.14<br>-16.2   | [cm] 100 100 Height                           | Vert   |
| Test Frequency (MHz)  12412.794 17750.525  al 10000 - 180 Test Frequency (MHz)  13398.301  | Meter<br>Reading<br>(dBuV)<br>34.26<br>32<br>000MHz<br>Meter<br>Reading<br>(dBuV)   | PK PK Detector  | Factor [dB/m]  39.2  42.2  T345 Ant Factor [dB/m]  39.1   | Preamp Gain [dB]  -32.7  -31.4  T145 Preamp Gain [dB]  -31.9   | 11.8<br>14.7<br>Cable<br>Factor<br>[dB]  | (dB)  0.3  0.3  T192 BRF [dB]                                      | /meter)  52.86  57.8  dB(uVolts /meter)   | [dBuV/m] - Avg E-Fields [dBuV/m] - Avg 53.97                              | (dB)               | [dBuV/m] - Peak  74 74  E-Fields [dBuV/m] - Peak  74                             | -21.14<br>-16.2<br>Margin<br>(dB)                               | 100<br>100<br>Height<br>[cm]                  | Vert Vert Polarit Horz Horz  |
| Test Frequency (MHz)  12412.794  17750.525  al 10000 - 180  Test Frequency (MHz)  13398.301  16744.628                                     | Meter<br>Reading<br>(dBuV)<br>34.26<br>32<br>DOOMHz<br>Meter<br>Reading<br>(dBuV)<br>22.64<br>20.46<br>21.59  | PK PK Detector  | T345 Ant Factor [dB/m] 39.2 42.2 T345 Ant Factor [dB/m] 39.1 41.6   | Preamp<br>Gain [dB]<br>-32.7<br>-31.4<br>T145<br>Preamp<br>Gain [dB]<br>-31.9<br>-32.1   | 11.8<br>14.7<br>Cable<br>Factor<br>[dB]  | 0.3<br>0.3<br>0.3<br>T192 BRF<br>[dB]                              | /meter)  52.86  57.8  dB(uVolts /meter)  42.44  44.56   | [dBuV/m] - Avg  E-Fields [dBuV/m] - Avg  53.97                            | (dB)               | [dBuV/m]<br>- Peak<br>74<br>74<br>E-Fields<br>[dBuV/m]<br>- Peak<br>74<br>68.2   | -21.14<br>-16.2<br>Margin<br>(dB)                               | [cm]  100 100  Height [cm]  100 200           | Vert Vert Polarit  |
| Test Frequency (MHz)  12412.794 17750.525  al 10000 - 180 Test Frequency (MHz)  13398.301 16744.628 17856.072                              | Meter<br>Reading<br>(dBuV)<br>34.26<br>32<br>000MHz<br>Meter<br>Reading<br>(dBuV)<br>22.64<br>20.46<br>21.59  | PK PK Detector  | Factor [dB/m] 39.2 42.2  T345 Ant Factor [dB/m] 39.1 41.6 42.2  | Preamp<br>Gain [dB]<br>-32.7<br>-31.4<br>T145<br>Preamp<br>Gain [dB]<br>-31.9<br>-32.1<br>-31.3  | Factor [dB]  11.8 14.7  Cable Factor [dB]  12.3 14.1 14.8  | [dB]  0.3  0.3  T192 BRF [dB]  0.3  0.5  0.4                       | /meter)  52.86 57.8  dB(uVolts /meter)  42.44 44.56 47.69  dB(uVolts  | E-Fields [dBuV/m] - Avg  E-Fields [dBuV/m] - Avg  53.97  E-Fields         | (dB)               | [dBuV/m] - Peak  74 74  E-Fields [dBuV/m] - Peak  74  68.2 74  E-Fields          | (dB)  -21.14 -16.2  Margin (dB)  -31.56 -23.64 -26.31           | [cm]  100 100 Height [cm]  100 200 200 Height | Vert Vert Polarit Horz Horz  |
| Test Frequency (MHz)  12412.794  17750.525  al 10000 - 180  Test Frequency (MHz)  13398.301  16744.628  17856.072                          | Meter<br>Reading<br>(dBuV)<br>34.26<br>32<br>000MHz<br>Meter<br>Reading<br>(dBuV)<br>22.64<br>20.46<br>21.59  | PK PK  Detector  PK PK PK   | Factor [dB/m] 39.2 42.2  T345 Ant Factor [dB/m] 39.1 41.6 42.2  | Preamp<br>Gain [dB]<br>-32.7<br>-31.4<br>T145<br>Preamp<br>Gain [dB]<br>-31.9<br>-32.1<br>-31.3  | Factor [dB]  11.8  14.7  Cable Factor [dB]  12.3  14.1  14.8   | 0.3<br>0.3<br>1.3<br>0.3<br>1.192 BRF<br>[dB]<br>0.3<br>0.5<br>0.4 | /meter) 52.86 57.8  dB(uVolts /meter) 42.44 44.56 47.69   | [dBuV/m] - Avg  | (dB)               | [dBuV/m] - Peak  74 74  E-Fields [dBuV/m] - Peak  74  68.2  74                   | -21.14<br>-16.2<br>Margin<br>(dB)<br>-31.56<br>-23.64<br>-26.31 | [cm] 100 100 Height [cm] 100 200 200          | Vert Vert Polarit Horz Horz  |
| Test Frequency (MHz)  12412.794 17750.525  al 10000 - 180 Test Frequency (MHz)  13398.301 16744.628 17856.072  0000 - 18000 Test Frequency | Meter<br>Reading<br>(dBuV)<br>34.26<br>32<br>000MHz<br>Meter<br>Reading<br>(dBuV)<br>22.64<br>20.46<br>21.59<br>00MHz   | PK PK  Detector  PK PK PK   | Factor [dB/m] 39.2 42.2  T345 Ant Factor [dB/m] 39.1 41.6 42.2  T345 Ant Factor   | Preamp<br>Gain [dB]<br>-32.7<br>-31.4<br>T145<br>Preamp<br>Gain [dB]<br>-31.9<br>-32.1<br>-31.3  | Factor [dB]  11.8  14.7  Cable Factor [dB]  12.3  14.1  14.8  Cable Factor   | [dB]  0.3  0.3  T192 BRF [dB]  0.3  0.5  0.4                       | /meter)  52.86 57.8  dB(uVolts /meter)  42.44 44.56 47.69  dB(uVolts  | E-Fields<br>[dBuV/m]<br>- Avg<br>53.97<br>- 53.97<br>E-Fields<br>[dBuV/m] | (dB)               | [dBuV/m] - Peak  74 74  E-Fields [dBuV/m] - Peak  74  68.2 74  E-Fields [dBuV/m] | (dB)  -21.14 -16.2  Margin (dB)  -31.56 -23.64 -26.31           | [cm]  100 100 Height [cm]  100 200 200 Height | Vert Vert Polarit Horz Horz  |
|  | 1000 - 7600<br>Test<br>Frequency<br>(MHz)<br>1075.862<br>1273.763<br>6204.798<br>0000 - 7600M<br>Test<br>Frequency<br>(MHz)<br>1174.813<br>2025.787<br>5294.453<br>17600 - 1800<br>Test<br>Frequency<br>(MHz) | Test Reading (dBuV)  1075.862 48.09 1273.763 46.82 6204.798 38.01  1000 - 7600MHz  Test Reading (dBuV)  1075.862 48.09 1273.763 46.82 6204.798 38.01  1000 - 7600MHz  Test Meter Reading (dBuV)  1174.813 46.28 2025.787 43.35 5294.453 38.47  17600 - 18000MHz  Test Meter Reading (dBuV)  13384.708 34.06 16752.624 32.34 | Test Reading (dBuV)  1075.862 48.09 PK 1273.763 46.82 PK 6204.798 38.01 PK  000 - 7600MHz  Test Meter Reading (dBuV)  1174.813 46.28 PK 2025.787 43.35 PK 5294.453 38.47 PK  17600 - 18000MHz  Test Meter Frequency (dBuV)  1174.813 46.28 PK 17600 - 18000MHz  Test Meter Frequency (dBuV)  1384.708 34.06 PK 16752.624 32.34 PK 17859.67 31.97 PK | Test Reading (dBuV) PK 27.8  1075.862 48.09 PK 27.8  1273.763 46.82 PK 28.6  6204.798 38.01 PK 36  000 - 7600MHz  Test Meter Frequency (dBuV)  1174.813 46.28 PK 28.2  2025.787 43.35 PK 31.8  5294.453 38.47 PK 34.9  17600 - 18000MHz  Test Meter Frequency (dBuV)  13384.708 Meter Frequency (dBuV)  13384.708 34.06 PK 39.1  16752.624 32.34 PK 41.6  17859.67 31.97 PK 42.2 | Test Reading (dBuV) R | 1000 - 7600MHz   | Test Reading (MHz)   Detector   T345 Ant Frequency (MHz)   Frequency (MHz)   PK   PK   PK   PK   PK   PK   PK   P | 1000 - 7600MHz  | 1   1000 - 7600MHz | 1   1000 - 7600MHz   |   | 1   1000 - 7600MHz                            | 1000 - 7600MHz   Test   Meter   Frequency (MHz)   (dBvV)   (dBvVV)   (dB |

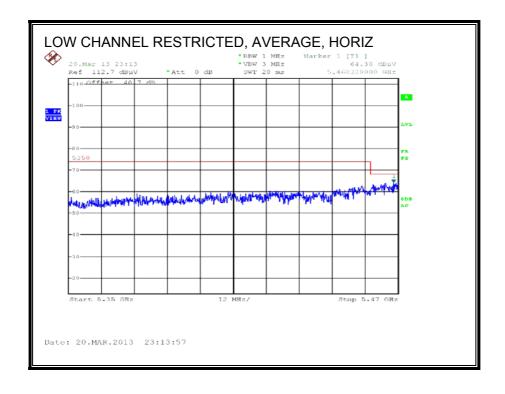
Page 347 of 429

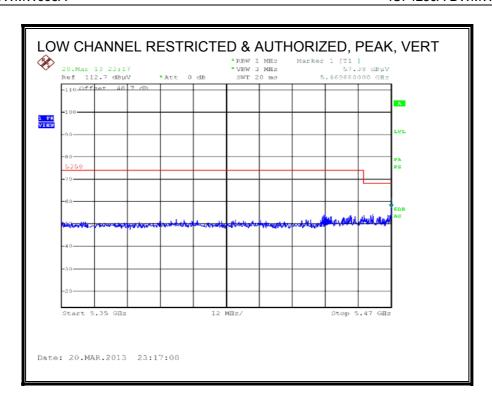
Av - Average detector

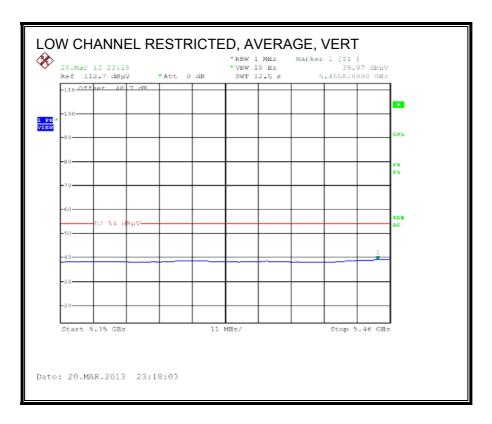
# 9.12. 802.11a CDD 6Mbps 2TX MODE IN THE 5.6 GHz BAND

## RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL)

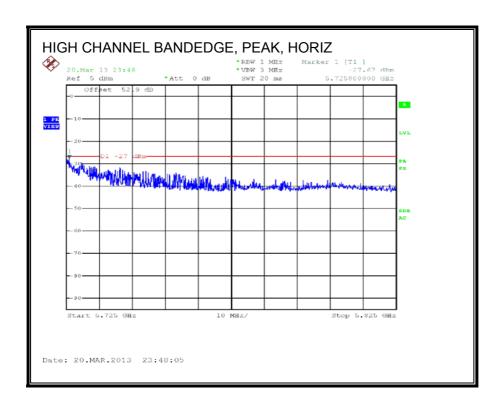


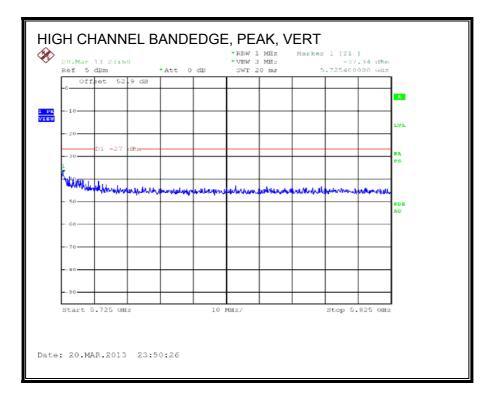






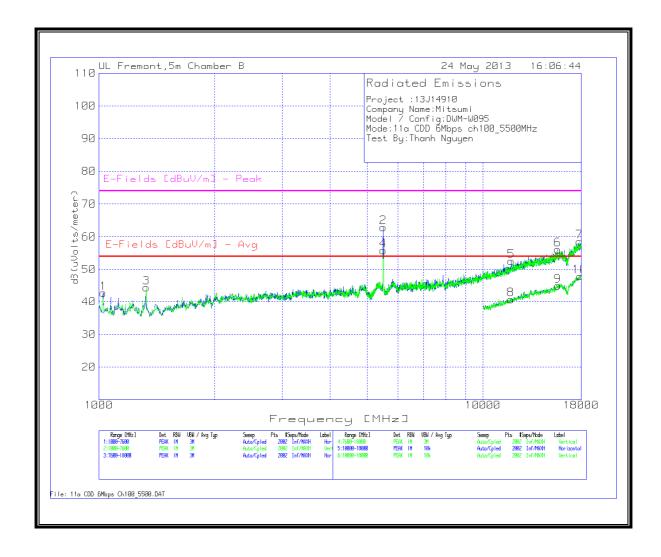
#### **AUTHORIZED BANDEDGE (HIGH CHANNEL)**





### **HARMONICS AND SPURIOUS EMISSIONS**

### **Low Channel**



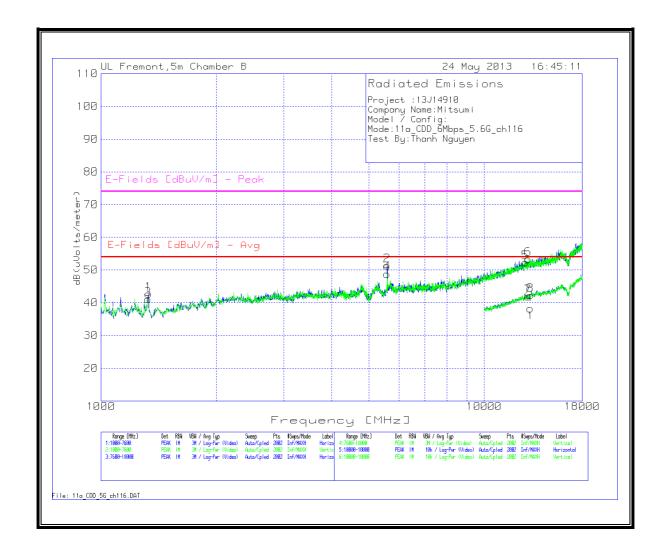
FORM NO: CCSUP4701J

### **LOW CHANNEL 100 DATA**

| Project :13J1491<br>Company Name |                        |              |          |               |                |               |                                       |                      |              |               |             |   |              |          |
|----------------------------------|------------------------|--------------|----------|---------------|----------------|---------------|---------------------------------------|----------------------|--------------|---------------|-------------|---|--------------|----------|
| lodel / Config                   | g:DWM-W095             |              |          |               |                |               |                                       |                      |              |               |             |   |              |          |
|                                  | 6Mbps ch100_5          | 500MHz       |          |               |                |               |                                       |                      |              |               |             |   |              |          |
| est By:Thanh N                   | Aguyen                 |              |          |               |                |               |                                       |                      |              |               |             |   |              |          |
|                                  |                        |              |          |               |                |               |                                       |                      |              |               |             |   |              |          |
| orizontal 1000                   | o . 7600MHz            |              |          |               |                |               |                                       |                      |              |               |             |   |              |          |
| Marker No.                       | Test                   | Meter        | Detector | T345 Ant      | T145 Preamp    | Cable Factor  | T161 BRF [dB]                         | Corrected            | E-Fields     | Average       | E-Fields    | Peak Margin                             | Height [cm]  | Polarity |
| Warker No.                       | Frequency              | Reading      | Detecto. | Factor [dB/m] |                | [dB]          | I I I I I I I I I I I I I I I I I I I | Reading              | [dBuV/m] -   | Margin        | [dBuV/m] -  | reak mana                               | Height [c]   | 1        |
| ,                                | (MHz)                  | (dBuV)       | i.       | 1             | 1              | 1             | 1 7                                   | dB(uVolts/me         |              | 1             | Peak        | 1                                       | ( )          | Ĺ        |
|                                  | ,                      | (            |          | !             | 1!             | 1'            | 17                                    | ter)                 |              | 1'            |             | 1!                                      | 1/           | í        |
| 1                                | 1026.387               | 47.85        | PK       | 27.5          | -36            | 3.2           | 0.1                                   | 42.65                | 53.97        | -11.32        | 74          | -31.35                                  | 121          | Horz     |
| *2                               | 5502.249               | 54.24        | PK       | 34.9          | -34.9          | 7.6           | 1                                     | 62.84                | -            | -             | -           |   | 121          | Horz     |
|                                  |                        |              |          |               |                |               |                                       |                      |              |               |             |   |              |          |
| ertical 1000 - 7                 |                        |              |          |               |                |               |                                       |                      |              |               |             |   |              |          |
| Marker No.                       | Test                   | Meter        | Detector | T345 Ant      | T145 Preamp    |               | T161 BRF [dB]                         |                      | E-Fields     | Average       | E-Fields    | Peak Margin                             | Height [cm]  | Polarity |
| ,                                | Frequency              | Reading(dBuV | i .      | Factor [dB/m] | Gain [dB]      | [dB]          | 1 7                                   | Reading              | [dBuV/m] -   | Margin        | [dBuV/m] -  | 1                                       | 1 1          | í.       |
| ,                                | (MHz)                  | )            | i .      | 1             | 1              | 1 '           | 1 7                                   | dB(uVolts/me<br>ter) | Avg          | 1             | Peak        | 1                                       | 1 1          | Ĺ        |
| 3                                | 1329.835               | 47.71        | PK       | 28.5          | -35.5          | 3.5           | 0.1                                   | 44.31                | 53.97        | -9.66         | 74          | -29.69                                  | 100          | Vert     |
| *4                               | 5498.951               | 47.22        | PK       | 34.9          | -34.9          | 7.6           | 1                                     | 55.82                | -            | -5.00         | -           | -25.05                                  | 200          | Vert     |
|                                  |                        |              |          |               |                |               |                                       |                      |              |               |             |   |              |          |
| orizontal 7600                   |                        |              |          |               |                |               |                                       |                      |              |               |             |   |              | _        |
| Marker No.                       | Test                   | Meter        | Detector | T345 Ant      | T145 Preamp    | Cable Factor  | T192 HPF [dB]                         | Corrected            | E-Fields     | Average       | E-Fields    | Peak Margin                             | Height [cm]  | Polarity |
| ,                                | Frequency              | Reading(dBuV | i .      | Factor [dB/m] | Gain [dB]      | [dB]          | 1 7                                   | Reading              | [dBuV/m] -   | Margin        | [dBuV/m] -  | ļ ,                                     | ( J          | Ĺ        |
| ,                                | (MHz)                  | )            | i .      | 1             | 1 7            | 1 '           | 1 7                                   | dB(uVolts/me         | Avg          | 1             | Peak        | 1                                       | 1 1          | í.       |
|                                  |                        | 1            |          | <del></del>   | <u> </u>       | <del></del> ' |                                       | ter)                 | $\leftarrow$ |               | <del></del> | <u> </u>                                | <del></del>  | -        |
| 5                                | 11835.882<br>15655.972 | 35.33        | PK<br>PK | 39.1<br>41.1  | -33.4<br>-32.9 | 11.5<br>13.5  | 0.1                                   | 52.63<br>56.07       | -            | -             | 74<br>74    | -21.37<br>-17.93                        | 100          | Horz     |
| 6                                | 13035.972              | 34.07        | PK       | 41.1          | -52.7          | 13.5          | 0.5                                   | 56.07                | $\vdash$     |               | /4          | -17.93                                  | 100          | Horz     |
| ertical 7600 - 1                 | 18000MHz               | <del></del>  |          |               |                |               |                                       |                      |              |               |             |   |              |          |
| Marker No.                       | Test                   | Meter        | Detector | T345 Ant      | T145 Preamp    | Cable Factor  | T192 HPF [dB]                         | Corrected            | E-Fields     | Average       | E-Fields    | Peak Margin                             | Height [cm]  | Polarity |
| ,                                | Frequency              | Reading(dBuV | i .      | Factor [dB/m] |                | [dB]          | 1 7                                   | Reading              | [dBuV/m] -   | Margin        | [dBuV/m] -  | 1                                       | 1            | í        |
| ,                                | (MHz)                  | )            | i .      | 1             | 1 7            | 1 '           | 1 7                                   | dB(uVolts/me         |              | 1             | Peak        | 1                                       | 1 1          | í        |
|                                  |                        |              |          | <u> </u>      | <u> </u>       | '             |                                       | ter)                 |              |               |             |   | لـــــــــا  |          |
| 7                                | 17818.091              | 33.03        | PK       | 42.2          | -31.4          | 14.7          | 0                                     | 58.53                |              | -             | 74          | -15.47                                  | 100          | Vert     |
|                                  |                        | $\perp$      |          |               |                |               | $\overline{}$                         |                      |              |               |             | لــــــــــــــــــــــــــــــــــــــ |              |          |
| Horizontal 1000<br>Marker No.    | 00 - 18000MHz<br>Test  | Meter        | Detector | T345 Ant      | T145 Preamp    | Cable Factor  | T192 HPF [dB]                         | Corrected            | E-Fields     | Average       | E-Fields    | Peak Margin                             | Height [cm]  | Polarity |
| Marker No.                       | Frequency              | Reading(dBuV |          | Factor [dB/m] |                | [dB]          | Lyas Her ford                         | Reading              | [dBuV/m] -   | Margin        | [dBuV/m] -  | Peak margin                             | Height (tim) | Forum,   |
| ,                                | (MHz)                  | )            | i .      | Pactor (uc,,  | Gain (a,       | []            | 1 7                                   | dB(uVolts/me         |              | Wilder Breeze | Peak        | 1                                       | 1 7          | í        |
| ,                                | ,,                     | 1 ' )        | i .      | 1             | 1              | 1 '           | [                                     | ter)                 |              | 1             |             | 1                                       | 1 1          | 1        |
| 8                                | 11815.092              | 23.44        | PK       | 39.1          | -33.4          | 11.4          | 0.1                                   | 40.64                | 53.97        | -13.33        | 74          | -33.36                                  | 100          | Horz     |
| 9                                | 15649.175              | 23           | PK       | 41.1          | -32.9          | 13.5          | 0.2                                   | 44.9                 | 53.97        | -9.07         | 74          | -29.1                                   | 200          | Horz     |
|                                  |                        |              |          |               |                |               | س                                     |                      |              |               |             |   | لست          |          |
| Vertical 10000 -                 |                        | 1            |          |               | T              | T             | T                                     |                      |              |               | 1           | 1 - 1 - 1 - 1 - 1 - 1                   |              | - 1-1    |
| Marker No.                       | Test                   | Meter        | Detector | T345 Ant      | T145 Preamp    |               | T192 HPF [dB]                         | Corrected            | E-Fields     | Average       | E-Fields    | Peak Margin                             | Height [cm]  | Polarity |
| ,                                | Frequency<br>(MHz)     | Reading(dBuV | i .      | Factor [dB/m] | Gain [dB]      | [dB]          | 1 '                                   | Reading              | [dBuV/m] -   | Margin        | [dBuV/m] -  | ļ ,                                     | 1            | í        |
| ,                                | (MHz)                  | )            | i .      | 1             | 1              | 1 '           | 1 7                                   | dB(uVolts/me<br>ter) | Avg          | 1             | Peak        | 1                                       | 1 1          | Ĺ        |
| 10                               | 17856.072              | 21.76        | PK       | 42.2          | -31.3          | 14.8          | 0.4                                   | 47.86                | 53.97        | -6.11         | 74          | -26.14                                  | 100          | Vert     |
|                                  |                        |              |          |               |                |               |                                       |                      |              |               |             | 20                                      |              |          |

PK - Peak detector QP - Quasi-Peak detector Av - Average detector

#### **Mid Channel**



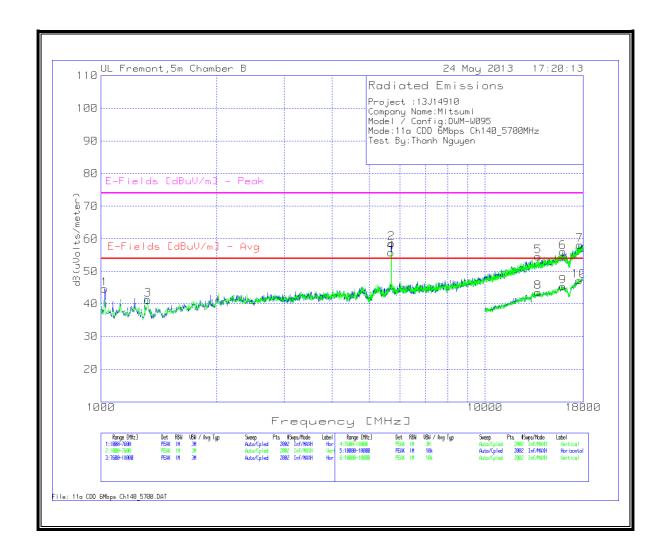
#### MID CHANNEL 116 DATA

Project :13J14910 Company Name:Mitsumi Model / Config: Mode:11a\_CDD\_6Mbps\_5.6G\_ch116 Test By:Thanh Nguyen Horizontal 1000 -Marker No. 7600MHz Test Meter T345 Ant Factor [dB/m] T145 Pream volts ter) E-Fields [dBuV/m] -E-Fields [dBuV/m] Height [cm] Frequency (MHz) 1329.835 5578.111 [dB] Peak 74 -35.5 -34.9 28.5 Vertical 1000 - 7600MHz E-Fields [dBuV/m] -Avg Test T345 Ant Factor [dB/m] T145 Pream Gain [dB] able Fac [dB] ter) [dBuV/m] Peak (MHz) 1326.537 5578.111 44.49 40.11 Vert Vert Horizontal 7600 - 18000MHz Marker No. Test E-Fields [dBuV/m] -Avg T145 Pream E-Fields ter) Frequenc (MHz) Reading (dBuV) Factor [dB/m] Gain [dB] [dB] [dBuV/m] Peak 12807.796 32.61 -32.1 12 52.31 -15.89 Horz Vertical 7600 - 18000MHz Marker No. Test [dBuV/m] Avg Frequence (MHz) Factor [dB/m] Gain [dB] [dB] ter) [dBuV/m] Peak (dBuV) 12994.903 39.2 -31.8 53.42 Horizontal 10000 - 18000MI E-Fields [dBuV/m] E-Fields [dBuV/m] Gain [dB] Frequence (MHz) Reading (dBuV) Factor [dB/m] [dB] ter) Avg Peak 12998.501 22.12 39.2 -31.8 12.1 41.92 68.2 -26.28 Test Frequency (MHz) Reading (dBuV) actor [dB/m] Gain [dB] [dB] ter) [dBuV/m] Avg Peak 13198.401 22.96 39.1 -31.8 12.2 42.36 68.2 -25.84 Vert

PK - Peak detector QP - Quasi-Peak detector

Av - Average detector

### **High Channel**

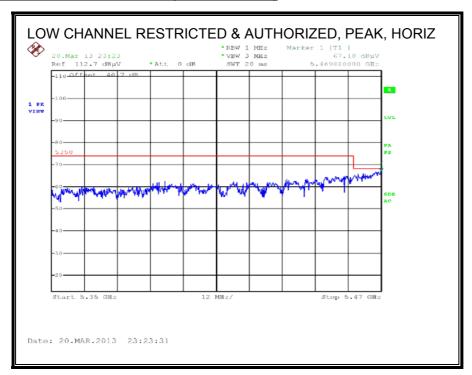


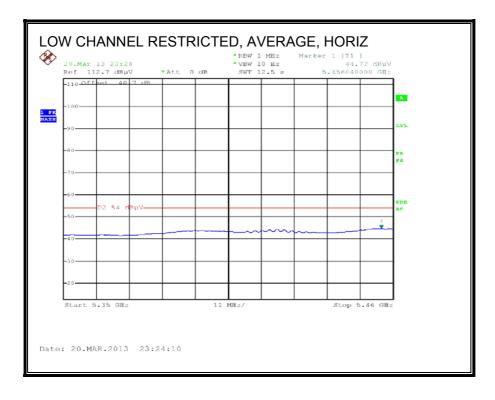
### HIGH CHANNEL 140 DATA

|                  | - 7600MHz                  |                            |          |                           |                          |                      |               |  |                               |             |                                |                  |             |          |
|------------------|----------------------------|----------------------------|----------|---------------------------|--------------------------|----------------------|---------------|--|-------------------------------|-------------|--------------------------------|------------------|-------------|----------|
| Marker No.       | Test<br>Frequency<br>(MHz) | Meter<br>Reading<br>(dBuV) | Detector | T345 Ant<br>Factor [dB/m] | T145 Preamp<br>Gain [dB] | Cable Factor<br>[dB] | T161 BRF [dB] | Corrected<br>Reading<br>dB(uVolts/me<br>ter) | E-Fields<br>[dBuV/m] -<br>Avg | Margin (dB) | E-Fields<br>[dBuV/m] -<br>Peak | Margin (dB)      | Height [cm] | Polarity |
| 1                | 1023.088                   | 49.81                      | PK       | 27.5                      | -36                      | 3.2                  | 0.1           | 44.61  | 53.97                         | -9.36       | 74                             | -29.39           | 100         | Horz     |
| *2               | 5703.448                   | 49.74                      | PK       | 35.1                      | -34.9                    | 7.7                  | 1             | 58.64  | -                             | -           | -                              | -                | 100         | Horz     |
| ertical 1000 - 7 | 7600MHz                    |                            |          |                           |                          |                      |               |  |                               |             |                                |                  |             |          |
| Marker No.       | Test<br>Frequency<br>(MHz) | Meter<br>Reading(dBuV<br>) | Detector | T345 Ant<br>Factor [dB/m] | T145 Preamp<br>Gain [dB] | Cable Factor<br>[dB] | T161 BRF [dB] | Corrected<br>Reading<br>dB(uVolts/me<br>ter) | E-Fields<br>[dBuV/m] -<br>Avg | Margin (dB) | E-Fields<br>[dBuV/m] -<br>Peak | Margin (dB)      | Height [cm] | Polarity |
| 3                | 1326.537                   | 44.6                       | PK       | 28.5                      | -35.5                    | 3.5                  | 0.1           | 41.2   | 53.97                         | -12.77      | 74                             | -32.8            | 200         | Vert     |
| *4               | 5696.852                   | 46.97                      | PK       | 35.1                      | -34.9                    | 7.7                  | 1             | 55.87  |                               |             |                                |                  | 200         | Vert     |
| Iorizontal 7600  | - 18000MHz                 |                            |          |                           |                          |                      |               |  |                               |             |                                |                  |             |          |
| Marker No.       | Test<br>Frequency<br>(MHz) | Meter<br>Reading(dBuV<br>) | Detector | T345 Ant<br>Factor [dB/m] | T145 Preamp<br>Gain [dB] | Cable Factor<br>[dB] | T192 HPF [dB] | Corrected<br>Reading<br>dB(uVolts/me<br>ter) | E-Fields<br>[dBuV/m] -<br>Avg | Margin (dB) | E-Fields<br>[dBuV/m] -<br>Peak | Margin (dB)      | Height [cm] | Polarity |
| 5                | 13738.131                  | 34.49                      | PK       | 39.1                      | -32.1                    | 12.5                 | 0.6           | 54.59  |                               |             | 68.2                           | -13.61           | 100         | Horz     |
| 6                | 15947.026                  | 33.35                      | PK       | 41.5                      | -32.9                    | 13.7                 | 0.4           | 56.05  |                               |             | 74                             | -17.95           | 100         | Horz     |
| ertical 7600 - 1 | 19000MU2                   |                            |          |                           |                          |                      |               |  |                               |             |                                |                  |             |          |
| Marker No.       | Test<br>Frequency<br>(MHz) | Meter<br>Reading(dBuV<br>) | Detector | T345 Ant<br>Factor [dB/m] | T145 Preamp<br>Gain [dB] | Cable Factor<br>[dB] | T192 HPF [dB] | Corrected<br>Reading<br>dB(uVolts/me<br>ter) | E-Fields<br>[dBuV/m] -<br>Avg | Margin (dB) | E-Fields<br>[dBuV/m] -<br>Peak | Margin (dB)      | Height [cm] | Polarity |
| 7                | 17636.182                  | 32.9                       | PK       | 42.1                      | -31.5                    | 14.6                 | 0             | 58.1   | -                             | -           | 68.2                           | -10.1            | 100         | Vert     |
| Iorizontal 1000  | 0 - 18000MHz               |                            |          |                           |                          |                      |               |  |                               |             |                                |                  |             |          |
| Marker No.       | Test<br>Frequency<br>(MHz) | Meter<br>Reading(dBuV<br>) | Detector | T345 Ant<br>Factor [dB/m] | T145 Preamp<br>Gain [dB] | Cable Factor<br>[dB] | T192 HPF [dB] | Corrected<br>Reading<br>dB(uVolts/me<br>ter) | E-Fields<br>[dBuV/m] -<br>Avg | Margin (dB) | E-Fields<br>[dBuV/m] -<br>Peak | Margin (dB)      | Height [cm] | Polarity |
| 8                | 13742.129<br>15945.027     | 23.48                      | PK<br>PK | 39.1<br>41.5              | -32.1                    | 12.5<br>13.7         | 0.6           | 43.58  | -<br>53.97                    | -8.65       | 68.2<br>74                     | -24.62<br>-28.68 | 200<br>100  | Horz     |
| 3                | 15945.027                  | 22.62                      | PK       | 41.5                      | -32.9                    | 15./                 | 0.4           | 45.32  | 33.37                         | -8.03       | /4                             | -28.08           | 100         | HOTZ     |
| ertical 10000 -  |                            |                            |          |                           |                          |                      |               |  |                               |             |                                |                  |             |          |
| Marker No.       | Test<br>Frequency<br>(MHz) | Meter<br>Reading(dBuV<br>) | Detector | T345 Ant<br>Factor [dB/m] | T145 Preamp<br>Gain [dB] | Cable Factor<br>[dB] | T192 HPF [dB] | Corrected<br>Reading<br>dB(uVolts/me<br>ter) | E-Fields<br>[dBuV/m] -<br>Avg | Margin (dB) | E-Fields<br>[dBuV/m] -<br>Peak | Margin (dB)      | Height [cm] | Polarity |
| 10               | 17580.21                   | 21.65                      | PK       | 42.1                      | -31.5                    | 14.6                 | 0.3           | 47.15  | -                             | -           | 68.2                           | -21.05           | 200         | Vert     |

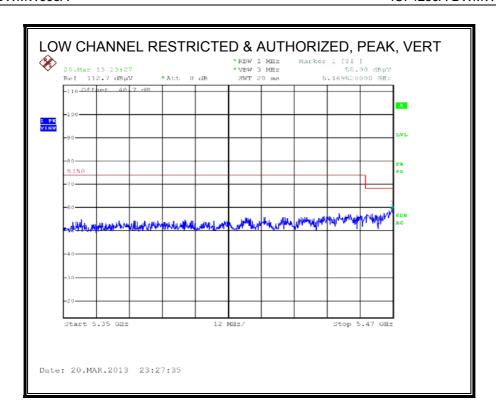
### 9.13. 802.11n HT20 CDD MCS0 2TX MODE IN THE 5.6 GHz BAND

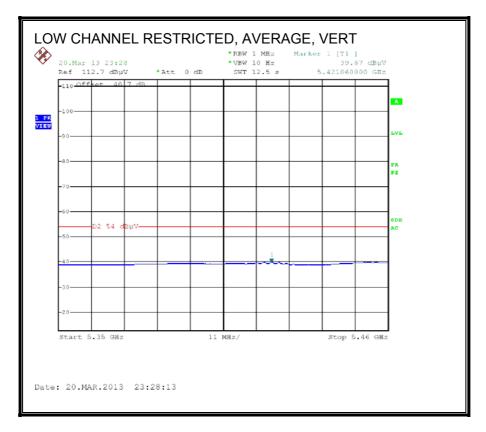
#### **RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL)**



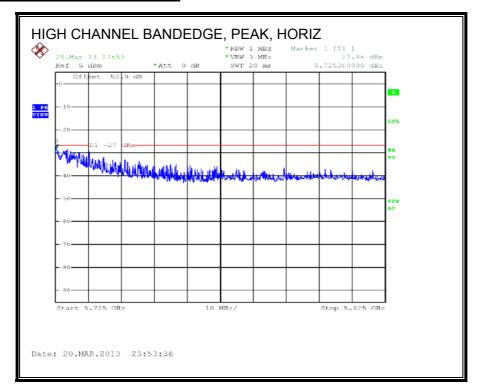


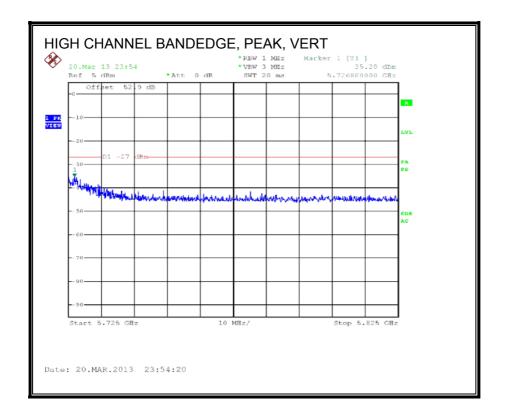
Page 357 of 429





#### **AUTHORIZED BANDEDGE (HIGH CHANNEL**





## **HARMONICS AND SPURIOUS EMISSIONS**

### **Low Channel**

