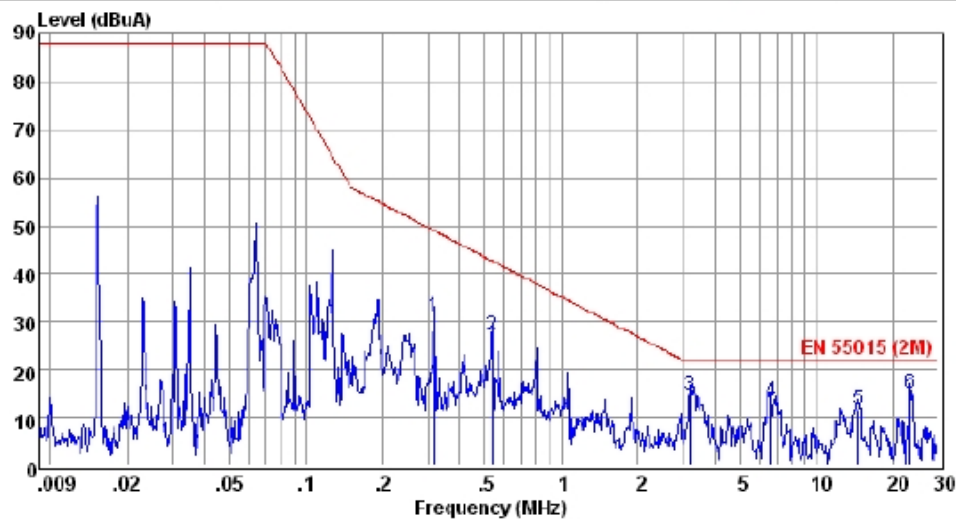


# 1. EMC TEST REPORT

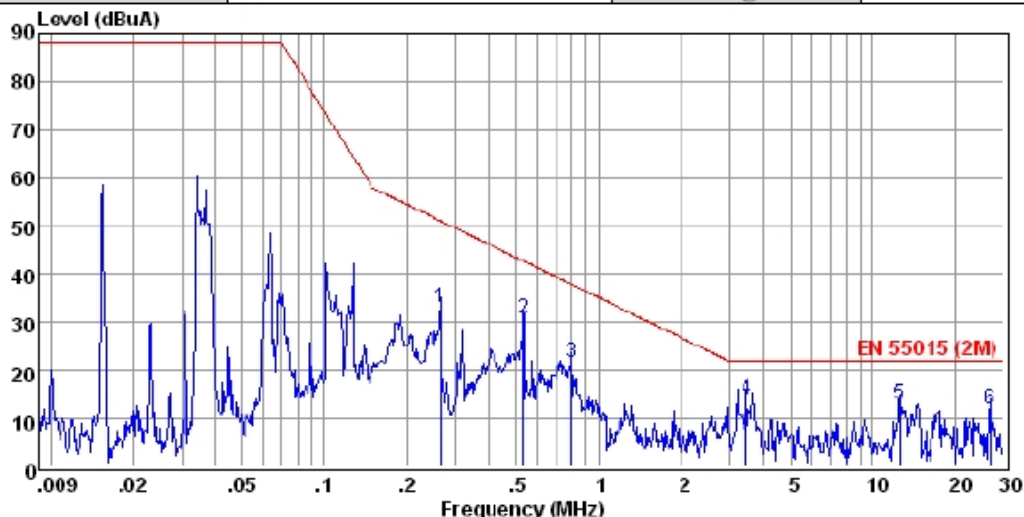
|                          |              |               |               |
|--------------------------|--------------|---------------|---------------|
| Model No.                |              | Test Date     | July 15, 2014 |
| Environmental Conditions | 24°C, 56% RH | Test Mode     | ON            |
| Pol                      | Y            | Test Engineer |               |



|   | Freq  | Reading | LisnFac | CabLos | Measured | Limit | Over   | Remark |
|---|-------|---------|---------|--------|----------|-------|--------|--------|
|   | MHz   | dBuA    | dB      | dB     | dBuA     | dBuA  | dB     |        |
| 1 | 0.32  | -29.44  | 59.04   | 0.60   | 31.20    | 40.92 | -17.72 | QP     |
| 2 | 0.54  | -32.64  | 59.12   | 0.63   | 27.11    | 42.68 | -15.57 | QP     |
| 3 | 3.20  | -42.58  | 56.56   | 0.70   | 14.68    | 22.00 | -7.32  | QP     |
| 4 | 6.64  | -38.70  | 51.32   | 0.76   | 13.38    | 22.00 | -8.62  | QP     |
| 5 | 14.57 | -37.15  | 48.07   | 0.84   | 11.76    | 22.00 | -10.24 | QP     |
| 6 | 23.14 | -33.19  | 47.24   | 0.88   | 14.93    | 22.00 | -7.07  | QP     |

Remarks: 1. Measured = Reading + Lisn Factor +Cable Loss.  
2. The emission levels that are 20dB below the official limit are not reported.

|                          |              |               |               |
|--------------------------|--------------|---------------|---------------|
| Model No.                |              | Test Date     | July 15, 2014 |
| Environmental Conditions | 24°C, 56% RH | Test Mode     | ON            |
| Pol                      | Z            | Test Engineer |               |



|   | Freq  | Reading | LisnFac | CabLos | Measured | Limit | Over   | Remark |
|---|-------|---------|---------|--------|----------|-------|--------|--------|
|   | MHz   | dBuA    | dB      | dB     | dBuA     | dBuA  | dB     |        |
| 1 | 0.27  | -26.24  | 58.71   | 0.58   | 33.05    | 51.06 | -18.01 | QP     |
| 2 | 0.53  | -28.76  | 58.80   | 0.63   | 30.67    | 42.78 | -12.11 | QP     |
| 3 | 0.80  | -37.74  | 58.70   | 0.65   | 21.61    | 37.90 | -16.29 | QP     |
| 4 | 3.47  | -42.76  | 56.20   | 0.71   | 14.15    | 22.00 | -7.85  | QP     |
| 5 | 12.49 | -37.07  | 49.42   | 0.83   | 13.18    | 22.00 | -8.82  | QP     |
| 6 | 26.56 | -36.12  | 47.15   | 0.89   | 11.92    | 22.00 | -10.08 | QP     |

Remarks: 1. Measured = Reading + Lisn Factor +Cable Loss.  
2. The emission levels that are 20dB below the official limit are not reported.

2. POWER LINE CONDUCTED MEASUREMENT

Block diagram of test setup:

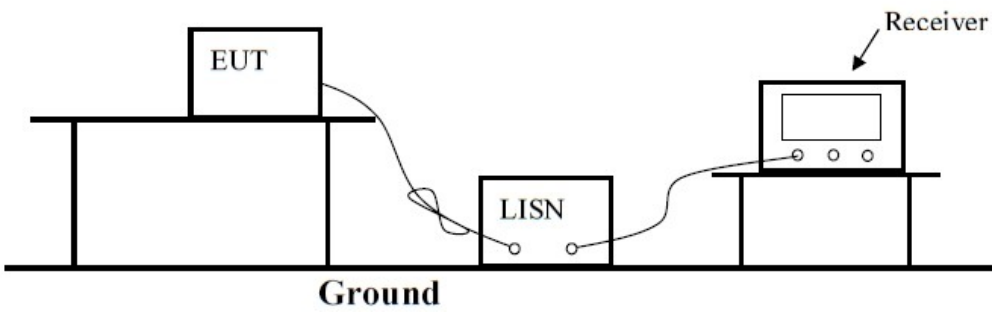


Photo of testing station:



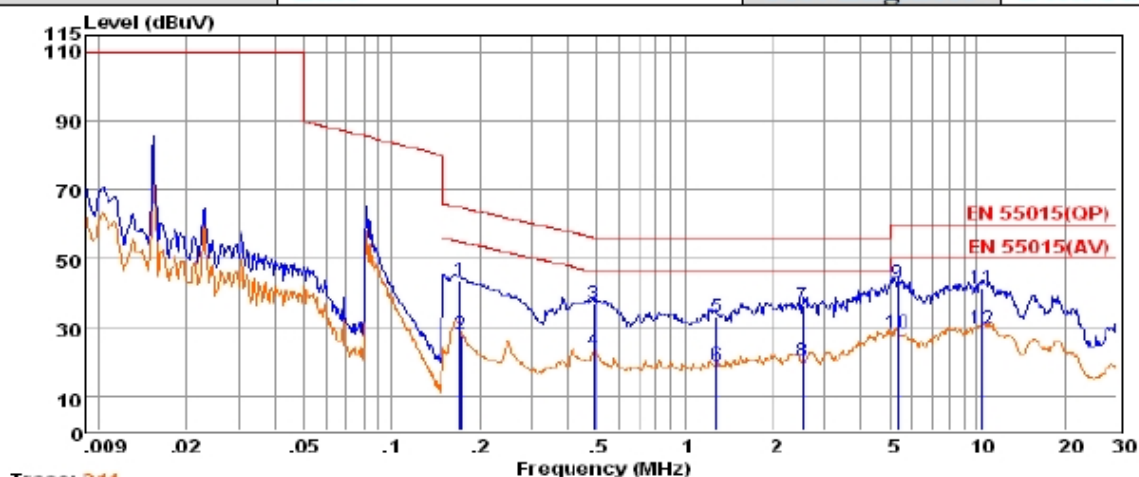
Test standard: EN 55015:2013

Test limits:

| Frequency       | At mains terminals (dBμV) |               |
|-----------------|---------------------------|---------------|
|                 | Quasi-peak Level          | Average Level |
| 9kHz ~ 50kHz    | 110                       | --            |
| 50kHz ~ 150kHz  | 90 ~ 80*                  | --            |
| 150kHz ~ 0.5MHz | 66 ~ 56*                  | 56 ~ 46*      |
| 0.5MHz ~ 5.0MHz | 56                        | 46            |
| 5.0MHz ~ 30MHz  | 60                        | 50            |

Test results: PASS

|                          |              |               |               |
|--------------------------|--------------|---------------|---------------|
| Model No.                |              | Test Date     | July 15, 2014 |
| Environmental Conditions | 24°C, 56% RH | Test Mode     | ON            |
| Pol                      | Line         | Test Engineer |               |

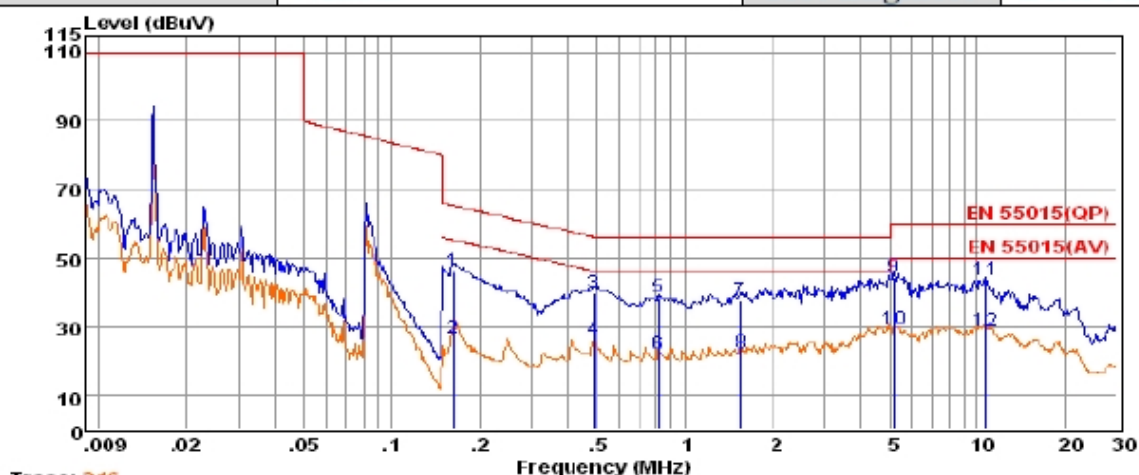


Trace: 214

|    | Freq  | Reading | LisnFac | CabLos | Measured | Limit | Over   | Remark  |
|----|-------|---------|---------|--------|----------|-------|--------|---------|
|    | MHz   | dBpW    | dB      | dB     | dBpW     | dBpW  | dB     |         |
| 1  | 0.17  | 24.17   | 9.60    | 0.02   | 43.79    | 64.84 | -21.05 | QP      |
| 2  | 0.17  | 8.34    | 9.60    | 0.02   | 27.96    | 54.84 | -26.88 | Average |
| 3  | 0.49  | 17.09   | 9.62    | 0.04   | 36.75    | 56.15 | -19.40 | QP      |
| 4  | 0.49  | 3.46    | 9.62    | 0.04   | 23.12    | 46.15 | -23.03 | Average |
| 5  | 1.29  | 13.36   | 9.63    | 0.05   | 33.04    | 56.00 | -22.96 | QP      |
| 6  | 1.29  | -0.91   | 9.63    | 0.05   | 18.77    | 46.00 | -27.23 | Average |
| 7  | 2.53  | 16.69   | 9.64    | 0.05   | 36.38    | 56.00 | -19.62 | QP      |
| 8  | 2.53  | 0.45    | 9.64    | 0.05   | 20.14    | 46.00 | -25.86 | Average |
| 9  | 5.33  | 23.00   | 9.66    | 0.06   | 42.72    | 60.00 | -17.28 | QP      |
| 10 | 5.33  | 8.65    | 9.66    | 0.06   | 28.37    | 50.00 | -21.63 | Average |
| 11 | 10.37 | 21.81   | 9.69    | 0.08   | 41.58    | 60.00 | -18.42 | QP      |
| 12 | 10.37 | 9.79    | 9.69    | 0.08   | 29.56    | 50.00 | -20.44 | Average |

Remarks: 1. Measured = Reading + Lisn Factor +Cable Loss.  
2. The emission levels that are 20dB below the official limit are not reported.

|                          |              |               |               |
|--------------------------|--------------|---------------|---------------|
| Model No.                |              | Test Date     | July 15, 2014 |
| Environmental Conditions | 24°C, 56% RH | Test Mode     | ON            |
| Pol                      | Neutral      | Test Engineer |               |



Trace: 216

|    | Freq  | Reading | LisnFac | CabLos | Measured | Limit | Over   | Remark  |
|----|-------|---------|---------|--------|----------|-------|--------|---------|
|    | MHz   | dBpW    | dB      | dB     | dBpW     | dBpW  | dB     |         |
| 1  | 0.16  | 26.63   | 9.67    | 0.02   | 46.32    | 65.31 | -18.99 | QP      |
| 2  | 0.16  | 6.89    | 9.67    | 0.02   | 26.58    | 55.31 | -28.73 | Average |
| 3  | 0.49  | 19.93   | 9.62    | 0.04   | 39.59    | 56.15 | -16.56 | QP      |
| 4  | 0.49  | 6.33    | 9.62    | 0.04   | 25.99    | 46.15 | -20.16 | Average |
| 5  | 0.82  | 18.74   | 9.63    | 0.04   | 38.41    | 56.00 | -17.59 | QP      |
| 6  | 0.82  | 2.24    | 9.63    | 0.04   | 21.91    | 46.00 | -24.09 | Average |
| 7  | 1.55  | 18.15   | 9.63    | 0.05   | 37.83    | 56.00 | -18.17 | QP      |
| 8  | 1.55  | 2.74    | 9.63    | 0.05   | 22.42    | 46.00 | -23.58 | Average |
| 9  | 5.16  | 24.94   | 9.66    | 0.06   | 44.66    | 60.00 | -15.34 | QP      |
| 10 | 5.16  | 9.31    | 9.66    | 0.06   | 29.03    | 50.00 | -20.97 | Average |
| 11 | 10.71 | 23.68   | 9.72    | 0.08   | 43.48    | 60.00 | -16.52 | QP      |
| 12 | 10.71 | 8.78    | 9.72    | 0.08   | 28.58    | 50.00 | -21.42 | Average |

Remarks: 1. Measured = Reading + Lisn Factor +Cable Loss.  
2. The emission levels that are 20dB below the official limit are not reported.

3.MAGNETIC FIELD EMISSION MEASUREMENT

Block diagram of test report:

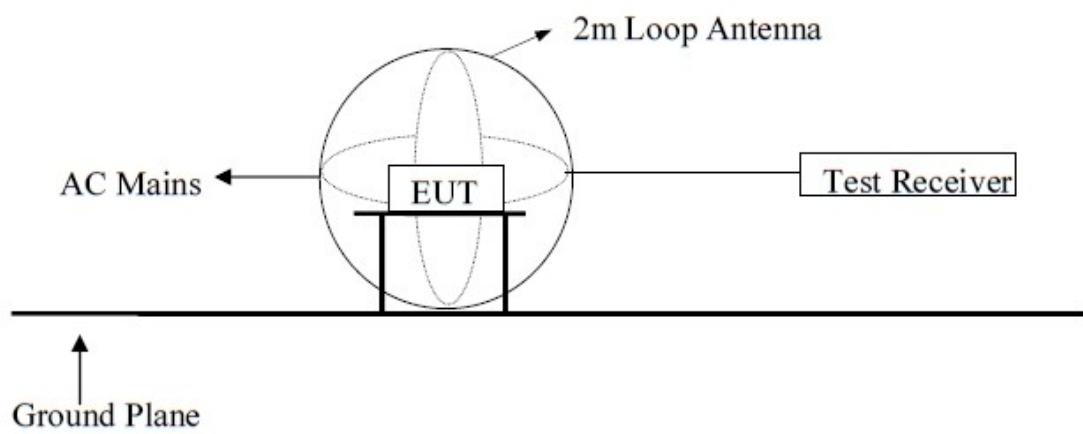


Photo of testing station:



Test standard: EN 55015:2013

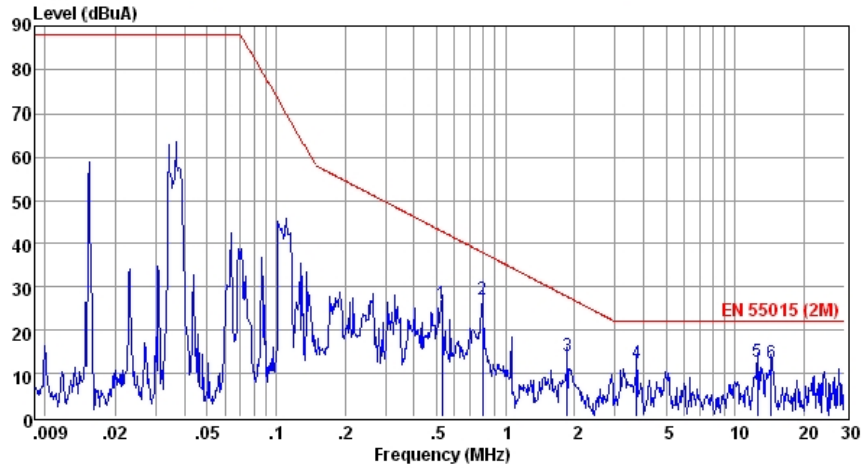
Test limits:

| Frequency       | Limits for loop diameter (dBμA) |
|-----------------|---------------------------------|
|                 | 2m                              |
| 9kHz ~ 70kHz    | 88                              |
| 70kHz ~ 150kHz  | 88 ~ 58*                        |
| 150kHz ~ 3.0MHz | 58 ~ 22*                        |
| 3.0MHz ~ 30MHz  | 22                              |

1. At the transition frequency the lower limit applies.
2. \* decreasing linearly with logarithm of the frequency.

Test results: PASS

|                          |              |               |               |
|--------------------------|--------------|---------------|---------------|
| Model No.                | BR-FL50W-01  | Test Date     | July 15, 2014 |
| Environmental Conditions | 24°C, 56% RH | Test Mode     | ON            |
| Pol                      | X            | Test Engineer | Dick Su       |



|   | Freq  | Reading | LisnFac | CabLos | Measured | Limit | Over   | Remark |
|---|-------|---------|---------|--------|----------|-------|--------|--------|
|   | MHz   | dBuA    | dB      | dB     | dBuA     | dBuA  | dB     |        |
| 1 | 0.53  | -35.54  | 60.93   | 0.63   | 26.02    | 42.87 | -16.85 | QP     |
| 2 | 0.79  | -34.08  | 60.51   | 0.65   | 27.08    | 38.00 | -10.92 | QP     |
| 3 | 1.86  | -45.19  | 58.59   | 0.68   | 14.08    | 27.77 | -13.69 | QP     |
| 4 | 3.73  | -43.34  | 54.90   | 0.71   | 12.27    | 22.00 | -9.73  | QP     |
| 5 | 12.49 | -35.90  | 47.86   | 0.83   | 12.79    | 22.00 | -9.21  | QP     |
| 6 | 14.34 | -35.97  | 47.59   | 0.84   | 12.46    | 22.00 | -9.54  | QP     |

Remarks: 1. Measured = Reading + Lisn Factor +Cable Loss.  
2. The emission levels that are 20dB below the official limit are not reported.

4. RADIATED EMISSION MEASUREMENT

Block diagram of test setup:

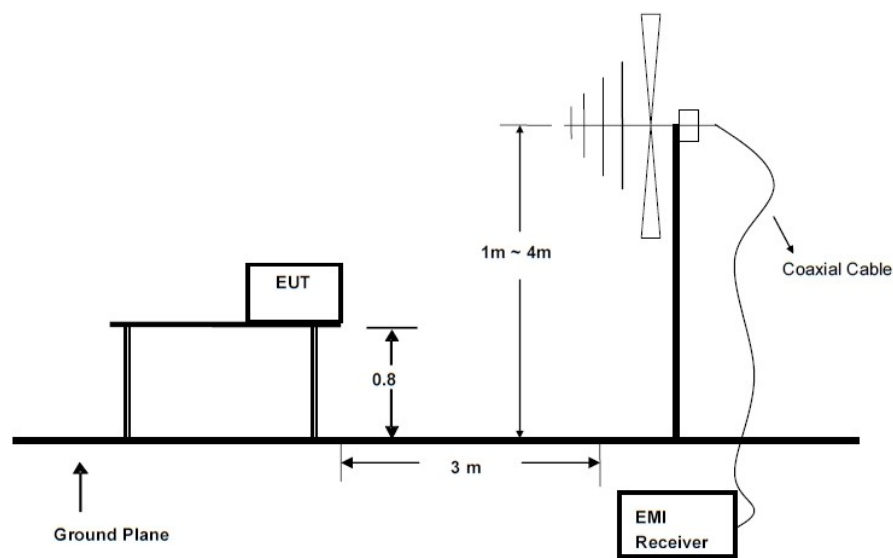
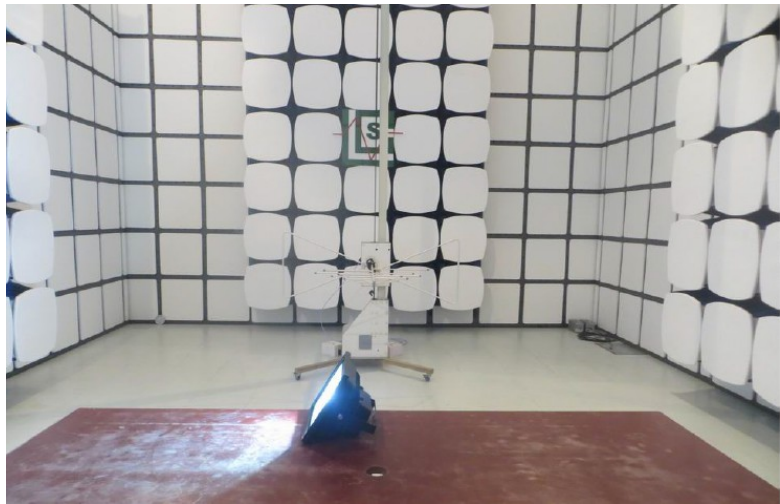


Photo of testing station:



Test standard: EN 55015:2013

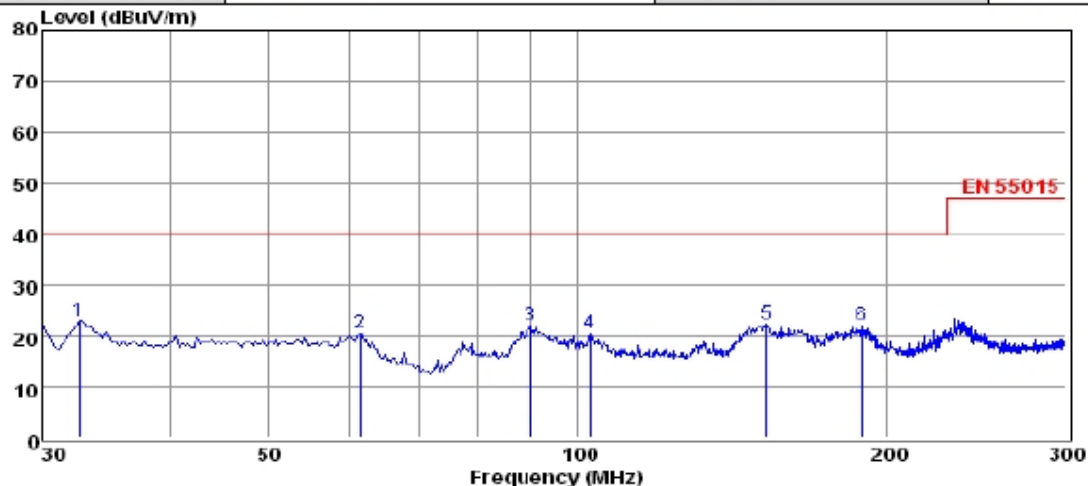
Radiated emission limits:

| FREQUENCY<br>(MHz) | DISTANCE<br>(Meters) | FIELD STRENGTHS LIMIT<br>(dBμV/m) |
|--------------------|----------------------|-----------------------------------|
| 30 ~ 230           | 3                    | 40                                |
| 230 ~ 300          | 3                    | 47                                |

Test results: PASS



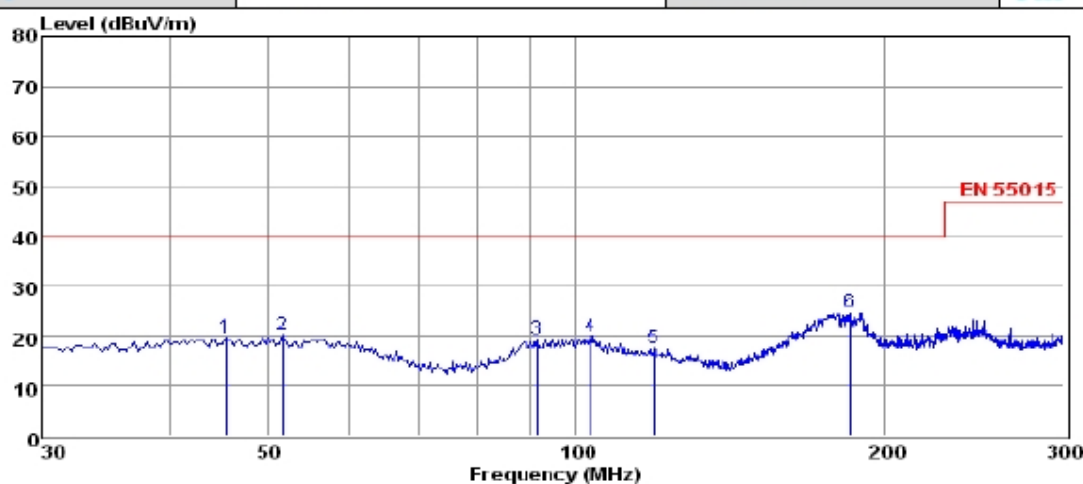
|                          |              |                   |               |
|--------------------------|--------------|-------------------|---------------|
| Model No.                |              | Test Date         | July 15, 2014 |
| Environmental Conditions | 24°C, 56% RH | Test Mode         | ON            |
| Pol                      | Vertical     | Detector Function | Quasi-peak    |
| Test Engineer            |              | Distance          | 3m            |



|   | Freq   | Reading | CabLos | Antfac | Measured | Limit  | Over   | Remark |
|---|--------|---------|--------|--------|----------|--------|--------|--------|
|   | MHz    | dBuV    | dB     | dB/m   | dBuV/m   | dBuV/m | dB     |        |
| 1 | 32.70  | 10.32   | 0.37   | 12.31  | 23.00    | 40.00  | -17.00 | QP     |
| 2 | 61.32  | 7.74    | 0.48   | 12.17  | 20.39    | 40.00  | -19.61 | QP     |
| 3 | 89.94  | 9.32    | 0.68   | 11.88  | 21.88    | 40.00  | -18.12 | QP     |
| 4 | 102.63 | 6.86    | 0.60   | 12.92  | 20.38    | 40.00  | -19.62 | QP     |
| 5 | 152.85 | 13.21   | 0.73   | 8.38   | 22.32    | 40.00  | -17.68 | QP     |
| 6 | 189.84 | 10.56   | 0.86   | 10.55  | 21.97    | 40.00  | -18.03 | QP     |

Note: 1. All readings are Quasi-peak values.  
2. Measured= Reading + Antenna Factor + Cable Loss  
3. The emission that are 20db below the official limit are not reported

|                          |              |                   |               |
|--------------------------|--------------|-------------------|---------------|
| Model No.                |              | Test Date         | July 15, 2014 |
| Environmental Conditions | 24°C, 56% RH | Test Mode         | ON            |
| Pol                      | Horizontal   | Detector Function | Quasi-peak    |
| Test Engineer            |              | Distance          | 3m            |



|   | Freq   | Reading | CabLos | Antfac | Measured | Limit  | Over   | Remark |
|---|--------|---------|--------|--------|----------|--------|--------|--------|
|   | MHz    | dBuV    | dB     | dB/m   | dBuV/m   | dBuV/m | dB     |        |
| 1 | 45.39  | 5.78    | 0.41   | 13.53  | 19.72    | 40.00  | -20.28 | QP     |
| 2 | 51.60  | 6.64    | 0.54   | 13.18  | 20.36    | 40.00  | -19.64 | QP     |
| 3 | 91.56  | 6.71    | 0.56   | 12.19  | 19.46    | 40.00  | -20.54 | QP     |
| 4 | 103.44 | 6.40    | 0.61   | 12.85  | 19.86    | 40.00  | -20.14 | QP     |
| 5 | 119.10 | 6.40    | 0.64   | 10.64  | 17.68    | 40.00  | -22.32 | QP     |
| 6 | 185.25 | 13.82   | 0.70   | 10.14  | 24.66    | 40.00  | -15.34 | QP     |

Note: 1. All readings are Quasi-peak values.  
2. Measured= Reading + Antenna Factor + Cable Loss  
3. The emission that are 20db below the official limit are not reported

## 5. HARMONIC CURRENT MEASUREMENT

Block diagram of test setup:

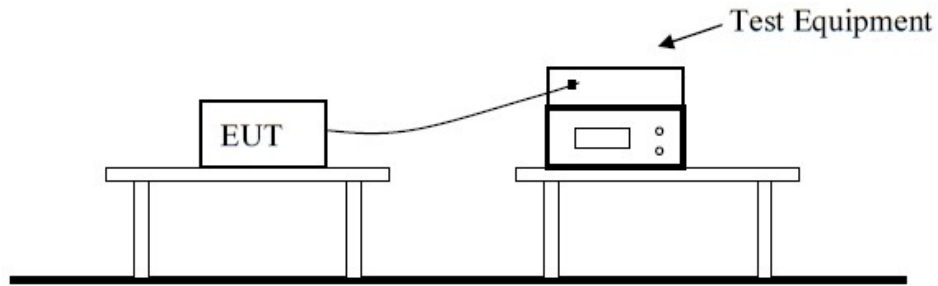


Photo of testing station:



Test standard: EN 61000-3-2: 2006+AI: 2009+A2:2009

Test results: PASS



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                     |                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------|-----------------|
| <b>Model No.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | <b>Test Date</b>    | July 15, 2014   |
| <b>Test Engineer</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                     |                 |
| <b>Type of Test:</b> EN61000:2006 Harmonics inc. interharmonics to EN61000-4-7:2002<br><b>Limits:</b> Class C > 25W<br><b>Power Analyzer:</b> Voltech PM6000 SN: 200006700523 Firmware version: v1.21.07RC2<br><b>Channel(s):</b><br>1. SN: 090015502053, 28 Adjusted Date: 22 JUN 2011. 2. SN:None Adjusted Date:None<br>3. SN:None Adjusted Date:None 4. SN:None Adjusted Date:None<br>5. SN:None Adjusted Date:None 6. SN:None Adjusted Date:None<br><b>Shunt(s):</b><br>1. SN: 091024301916, 4 Adjusted Date: 23 JUN 2011. 2. SN:None Adjusted Date:None<br>3. SN:None Adjusted Date:None 4. SN:None Adjusted Date:None<br>5. SN:None Adjusted Date:None 6. SN:None Adjusted Date:None<br><b>AC Source:</b> Mains / Manual Source |  |                     |                 |
| <b>Harmonic Results</b><br><b>Against Chosen Limits:</b><br><br><div style="font-size: 2em; color: green; text-align: center;">PASS</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | <b>Notes:</b>       |                 |
| <b>Test Parameter Details</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | <b>User Entered</b> | <b>Measured</b> |
| Operating Frequency:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | 50                  | 49.9840         |
| Operating Voltage:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | 230                 | 229.1867        |
| Specified Power:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | 0.0000              | 48.0039         |
| Fundamental Current:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | 1.8800              | 0.2094          |
| Power Factor:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | 0.9840              | 0.9793          |
| Average Input Current:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                     | 2.1347          |
| Maximum POHC:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                     | 0.0441          |
| POHC Limit:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                     | 0.1784          |
| Maximum THC:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                     | 0.2131          |
| Minimum Power:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | 75                  |                 |
| Class Multiplier:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | 1.0000              |                 |
| Test Duration:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | 00:02:30            |                 |

|                                                                                   |                                                               |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------|
| Voltech IEC61000-3 Windows Software 1.14.06RC1                                    |                                                               |
| Type of Test:                                                                     | Fluctuating Harmonics Test - Source Qualification (2006)      |
| Power Analyzer:                                                                   | Voltech PM6000 SN: 200006700523 Firmware version: v1.21.07RC2 |
| Channel(s):                                                                       |                                                               |
| 1. SN: 090015502053, 28 Adjusted Date: 22 JUN 2011. 2. SN:None Adjusted Date:None |                                                               |
| 3. SN:None Adjusted Date:None 4. SN:None Adjusted Date:None                       |                                                               |
| 5. SN:None Adjusted Date:None 6. SN:None Adjusted Date:None                       |                                                               |
| Shunt(s):                                                                         |                                                               |
| 1. SN: 091024301916, 4 Adjusted Date: 23 JUN 2011. 2. SN:None Adjusted Date:None  |                                                               |
| 3. SN:None Adjusted Date:None 4. SN:None Adjusted Date:None                       |                                                               |
| 5. SN:None Adjusted Date:None 6. SN:None Adjusted Date:None                       |                                                               |
| AC Source:                                                                        | Mains / Manual Source                                         |
| Overall Result:                                                                   | Notes:                                                        |
| <b>PASS</b>                                                                       |                                                               |

|                  | Nominal | Measured | Deviation | Allowed Deviation | Result |
|------------------|---------|----------|-----------|-------------------|--------|
| Supply Voltage   | 230.00V | 229.19V  | 0.81V     | 4.60V             | Pass   |
| Supply Frequency | 50.00Hz | 49.98Hz  | 0.02Hz    | 0.25Hz            | Pass   |
| Crest Factor     | 1.4100  | 1.4188   | 0.0088    | +/- 0.01          | Pass   |

| Harmonic | Reading | Limit | Result | Harmonic | Reading | Limit | Result |
|----------|---------|-------|--------|----------|---------|-------|--------|
| 2        | 0.11%   | 0.20% | Pass   | 3        | 0.05%   | 0.90% | Pass   |
| 4        | 0.03%   | 0.20% | Pass   | 5        | 0.04%   | 0.40% | Pass   |
| 6        | 0.01%   | 0.20% | Pass   | 7        | 0.05%   | 0.30% | Pass   |
| 8        | 0.03%   | 0.20% | Pass   | 9        | 0.03%   | 0.20% | Pass   |
| 10       | 0.01%   | 0.20% | Pass   | 11       | 0.03%   | 0.10% | Pass   |
| 12       | 0.01%   | 0.10% | Pass   | 13       | 0.01%   | 0.10% | Pass   |
| 14       | 0.01%   | 0.10% | Pass   | 15       | 0.03%   | 0.10% | Pass   |
| 16       | 0.01%   | 0.10% | Pass   | 17       | 0.01%   | 0.10% | Pass   |
| 18       | 0.01%   | 0.10% | Pass   | 19       | 0.03%   | 0.10% | Pass   |
| 20       | 0.01%   | 0.10% | Pass   | 21       | 0.03%   | 0.10% | Pass   |
| 22       | 0.01%   | 0.10% | Pass   | 23       | 0.01%   | 0.10% | Pass   |
| 24       | 0.01%   | 0.10% | Pass   | 25       | 0.02%   | 0.10% | Pass   |
| 26       | 0.01%   | 0.10% | Pass   | 27       | 0.03%   | 0.10% | Pass   |
| 28       | 0.01%   | 0.10% | Pass   | 29       | 0.02%   | 0.10% | Pass   |
| 30       | 0.00%   | 0.10% | Pass   | 31       | 0.01%   | 0.10% | Pass   |
| 32       | 0.01%   | 0.10% | Pass   | 33       | 0.02%   | 0.10% | Pass   |
| 34       | 0.01%   | 0.10% | Pass   | 35       | 0.01%   | 0.10% | Pass   |
| 36       | 0.01%   | 0.10% | Pass   | 37       | 0.04%   | 0.10% | Pass   |
| 38       | 0.01%   | 0.10% | Pass   | 39       | 0.04%   | 0.10% | Pass   |
| 40       | 0.01%   | 0.10% | Pass   |          |         |       |        |

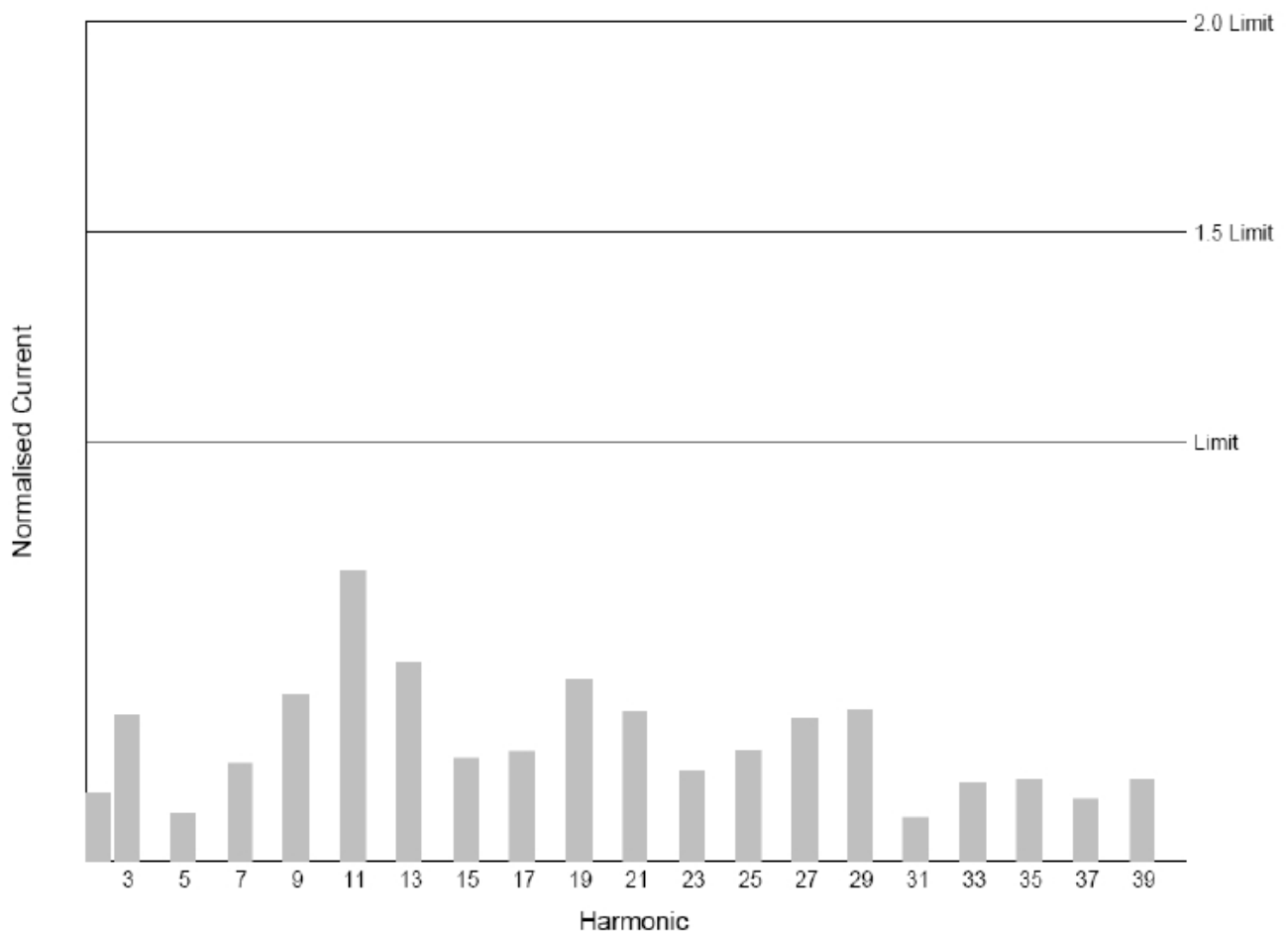
Type of Test: Fluctuating Harmonics Test - Normalised Worst Case Bar Chart (2006)  
Power Analyzer: Voltech PM6000 SN: 200006700523 Firmware version: v1.21.07RC2  
Channel(s):  
1. SN: 090015502053, 28 Adjusted Date: 22 JUN 2011. 2. SN:None Adjusted Date:None  
3. SN:None Adjusted Date:None 4. SN:None Adjusted Date:None  
5. SN:None Adjusted Date:None 6. SN:None Adjusted Date:None  
Shunt(s):  
1. SN: 091024301916, 4 Adjusted Date: 23 JUN 2011. 2. SN:None Adjusted Date:None  
3. SN:None Adjusted Date:None 4. SN:None Adjusted Date:None  
5. SN:None Adjusted Date:None 6. SN:None Adjusted Date:None  
AC Source: Mains / Manual Source

Overall Result:

**PASS**

Notes:

|                  |               |
|------------------|---------------|
| Class            | Class C > 25W |
| Class Multiplier | 1             |



Type of Test: Fluctuating Harmonics Test - Worst Case Table (2006)

Power Analyzer: Voltech PM6000 SN: 200006700523 Firmware version: v1.21.07RC2

Channel(s):

1. SN: 090015502053, 28 Adjusted Date: 22 JUN 2011. 2. SN: None Adjusted Date: None

3. SN: None Adjusted Date: None 4. SN: None Adjusted Date: None

5. SN: None Adjusted Date: None 6. SN: None Adjusted Date: None

Shunt(s):

1. SN: 091024301916, 4 Adjusted Date: 23 JUN 2011. 2. SN: None Adjusted Date: None

3. SN: None Adjusted Date: None 4. SN: None Adjusted Date: None

5. SN: None Adjusted Date: None 6. SN: None Adjusted Date: None

AC Source: Mains / Manual Source

Overall Result: Notes:

**PASS**

Class Class C > 25W

Class Multiplier 1

| Harm | Limit 1 | Limit 2 | Average Reading | <L1 <L2 | Max Reading | <L2 | Pass FAIL | Harm | Limit 1 | Limit 2 | Average Reading | <L1 <L2 | Max Reading | <L2 | Pass FAIL |
|------|---------|---------|-----------------|---------|-------------|-----|-----------|------|---------|---------|-----------------|---------|-------------|-----|-----------|
| 2    | 37.59mA | 58.40mA | 5.397mA         | ✓ ✓     | 8.141mA     | ✓   | N/A       | 3    | 554.9mA | 832.4mA | 192.8mA         | ✓ ✓     | 193.7mA     | ✓   | Pass      |
| 4    | None    | None    | 1.775mA         |         | 2.104mA     |     | N/A       | 5    | 188.0mA | 282.0mA | 21.00mA         | ✓ ✓     | 21.71mA     | ✓   | Pass      |
| 6    | None    | None    | 1.021mA         |         | 1.336mA     |     | N/A       | 7    | 131.5mA | 197.3mA | 30.17mA         | ✓ ✓     | 30.65mA     | ✓   | Pass      |
| 8    | None    | None    | 1.213mA         |         | 1.638mA     |     | N/A       | 9    | 94.00mA | 141.0mA | 37.00mA         | ✓ ✓     | 37.44mA     | ✓   | Pass      |
| 10   | None    | None    | 1.343mA         |         | 1.714mA     |     | N/A       | 11   | 58.39mA | 84.59mA | 38.70mA         | ✓ ✓     | 39.14mA     | ✓   | Pass      |
| 12   | None    | None    | 1.310mA         |         | 1.518mA     |     | N/A       | 13   | 58.39mA | 84.59mA | 26.21mA         | ✓ ✓     | 26.86mA     | ✓   | Pass      |
| 14   | None    | None    | 1.501mA         |         | 1.824mA     |     | N/A       | 15   | 58.39mA | 84.59mA | 13.49mA         | ✓ ✓     | 13.82mA     | ✓   | Pass      |
| 16   | None    | None    | 1.140mA         |         | 1.534mA     |     | N/A       | 17   | 58.39mA | 84.59mA | 14.39mA         | ✓ ✓     | 14.80mA     | ✓   | Pass      |
| 18   | None    | None    | 1.350mA         |         | 1.724mA     |     | N/A       | 19   | 58.39mA | 84.59mA | 24.13mA         | ✓ ✓     | 24.80mA     | ✓   | Pass      |
| 20   | None    | None    | 1.444mA         |         | 1.839mA     |     | N/A       | 21   | 58.39mA | 84.59mA | 18.81mA         | ✓ ✓     | 20.10mA     | ✓   | Pass      |
| 22   | None    | None    | 1.313mA         |         | 1.582mA     |     | N/A       | 23   | 58.39mA | 84.59mA | 11.67mA         | ✓ ✓     | 12.00mA     | ✓   | N/A       |
| 24   | None    | None    | 1.793mA         |         | 2.233mA     |     | N/A       | 25   | 58.39mA | 84.59mA | 14.62mA         | ✓ ✓     | 14.89mA     | ✓   | Pass      |
| 26   | None    | None    | 1.614mA         |         | 2.016mA     |     | N/A       | 27   | 58.39mA | 84.59mA | 18.55mA         | ✓ ✓     | 19.12mA     | ✓   | Pass      |
| 28   | None    | None    | 1.501mA         |         | 1.758mA     |     | N/A       | 29   | 58.39mA | 84.59mA | 20.13mA         | ✓ ✓     | 20.40mA     | ✓   | Pass      |
| 30   | None    | None    | 1.252mA         |         | 1.495mA     |     | N/A       | 31   | 58.39mA | 84.59mA | 5.559mA         | ✓ ✓     | 5.896mA     | ✓   | N/A       |
| 32   | None    | None    | 1.268mA         |         | 1.592mA     |     | N/A       | 33   | 58.39mA | 84.59mA | 10.16mA         | ✓ ✓     | 10.43mA     | ✓   | N/A       |
| 34   | None    | None    | 1.209mA         |         | 1.474mA     |     | N/A       | 35   | 58.39mA | 84.59mA | 10.78mA         | ✓ ✓     | 11.01mA     | ✓   | N/A       |
| 36   | None    | None    | 1.054mA         |         | 2.107mA     |     | N/A       | 37   | 58.39mA | 84.59mA | 8.180mA         | ✓ ✓     | 8.384mA     | ✓   | N/A       |
| 38   | None    | None    | 1.320mA         |         | 1.517mA     |     | N/A       | 39   | 58.39mA | 84.59mA | 10.61mA         | ✓ ✓     | 10.96mA     | ✓   | N/A       |
| 40   | None    | None    | 1.375mA         |         | 1.576mA     |     | N/A       |      |         |         |                 |         |             |     |           |

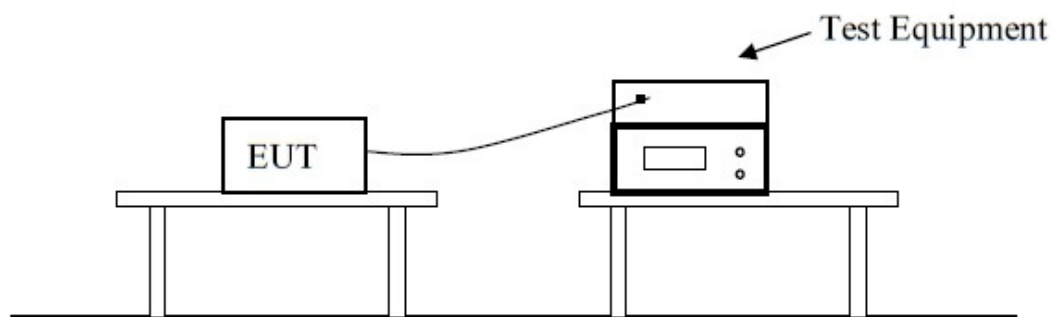
<L1 : Reading is below limit 1.

<L2 : Reading is below limit 2.

N/A : Harmonic current below 0.6% of rated current or 5mA, whichever is greater, are disregarded.

## 8. VOLTAGE FLUCTUATIONS & FLICKER MEASUREMENT

Block diagram of test setup:



Test standard: EN 61000-3-3:2013

Test results: PASS

|                                                                                   |                                                               |           |               |                 |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------|-----------|---------------|-----------------|
| Model No.                                                                         |                                                               | Test Date | July 15, 2014 |                 |
| Test Engineer                                                                     |                                                               |           |               |                 |
| Voltech IEC61000-3 Windows Software 1.14.06RC1                                    |                                                               |           |               |                 |
| Type of Test:                                                                     | Flickermeter Test - Table                                     |           |               |                 |
| Power Analyzer:                                                                   | Voltech PM6000 SN: 200006700523 Firmware Version: v1.21.07RC2 |           |               |                 |
| Channel(s):                                                                       |                                                               |           |               |                 |
| 1. SN: 090015502053, 28 Adjusted Date: 22 JUN 2011. 2. SN:None Adjusted Date:None |                                                               |           |               |                 |
| 3. SN:None Adjusted Date:None 4. SN:None Adjusted Date:None                       |                                                               |           |               |                 |
| 5. SN:None Adjusted Date:None 6. SN:None Adjusted Date:None                       |                                                               |           |               |                 |
| Shunt(s):                                                                         |                                                               |           |               |                 |
| 1. SN: 091024301916, 4 Adjusted Date: 23 JUN 2011. 2. SN:None Adjusted Date:None  |                                                               |           |               |                 |
| 3. SN:None Adjusted Date:None 4. SN:None Adjusted Date:None                       |                                                               |           |               |                 |
| 5. SN:None Adjusted Date:None 6. SN:None Adjusted Date:None                       |                                                               |           |               |                 |
| AC Source:                                                                        | Mains / Manual Source                                         |           |               |                 |
| Overall Result:                                                                   | Notes:                                                        |           |               |                 |
| <b>PASS</b>                                                                       | Measurement method - Voltage                                  |           |               |                 |
|                                                                                   | Pst                                                           | dc (%)    | dmax (%)      | d(t) > 3.3%(ms) |
| Limit                                                                             | 1.000                                                         | 3.300     | 4.000         | 500             |
| Reading 1                                                                         | 0.089                                                         | 0.012     | 0.157         | 0               |

9. ELECTROSTATIC DISCHARGE TEST

Block diagram of test setup:

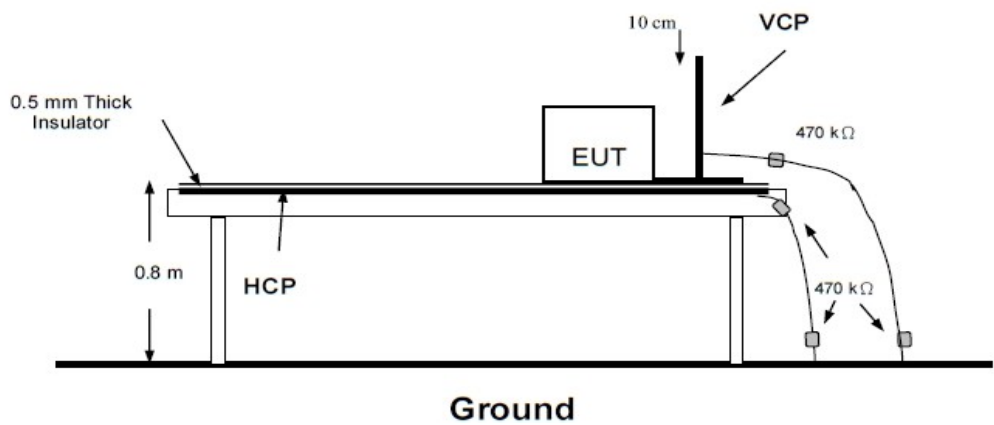


Photo of testing station:



Test standard:

EN 61547:2009 (EN61000-4-2: 2009, Severity Level: Air Discharge: Level 3,  $\pm 8 \text{ kV}$ , Contact Discharge: Level 2,  $\pm 4 \text{ kV}$ )

Severity level:

| Level | Test Voltage<br>Contact Discharge (KV) | Test Voltage<br>Air Discharge (KV) |
|-------|----------------------------------------|------------------------------------|
| 1.    | $\pm 2$                                | $\pm 2$                            |
| 2.    | $\pm 4$                                | $\pm 4$                            |
| 3.    | $\pm 6$                                | $\pm 8$                            |
| 4.    | $\pm 8$                                | $\pm 15$                           |
| X     | Special                                | Special                            |

Test results: PASS



# Electrostatic Discharger Test Results

|               |                                                                                         |             |               |
|---------------|-----------------------------------------------------------------------------------------|-------------|---------------|
| Standard      | <input type="checkbox"/> IEC 61000-4-2 <input checked="" type="checkbox"/> EN 61000-4-2 |             |               |
| Applicant     | -                                                                                       |             |               |
| EUT           | LED Flood Light                                                                         | Temperature | 26°C          |
| M/N           |                                                                                         | Humidity    | 51%           |
| Criterion     | B                                                                                       | Pressure    | 1021mbar      |
| Test Mode     | ON                                                                                      | Test Date   | July 15, 2014 |
| Test Engineer |                                                                                         |             |               |

| Air Discharge |                                     |                                     |                                     |                                     |                          |                                                                  |
|---------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|------------------------------------------------------------------|
| Test Points   | Test Levels                         |                                     |                                     | Results                             |                          |                                                                  |
|               | ± 2KV                               | ± 4KV                               | ± 8KV                               | Pass                                | Fail                     | Performance Criterion                                            |
| Front         | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> A <input checked="" type="checkbox"/> B |
| Back          | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> A <input checked="" type="checkbox"/> B |
| Left          | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> A <input checked="" type="checkbox"/> B |
| Right         | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> A <input checked="" type="checkbox"/> B |
| Top           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> A <input checked="" type="checkbox"/> B |
| Bottom        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> A <input checked="" type="checkbox"/> B |

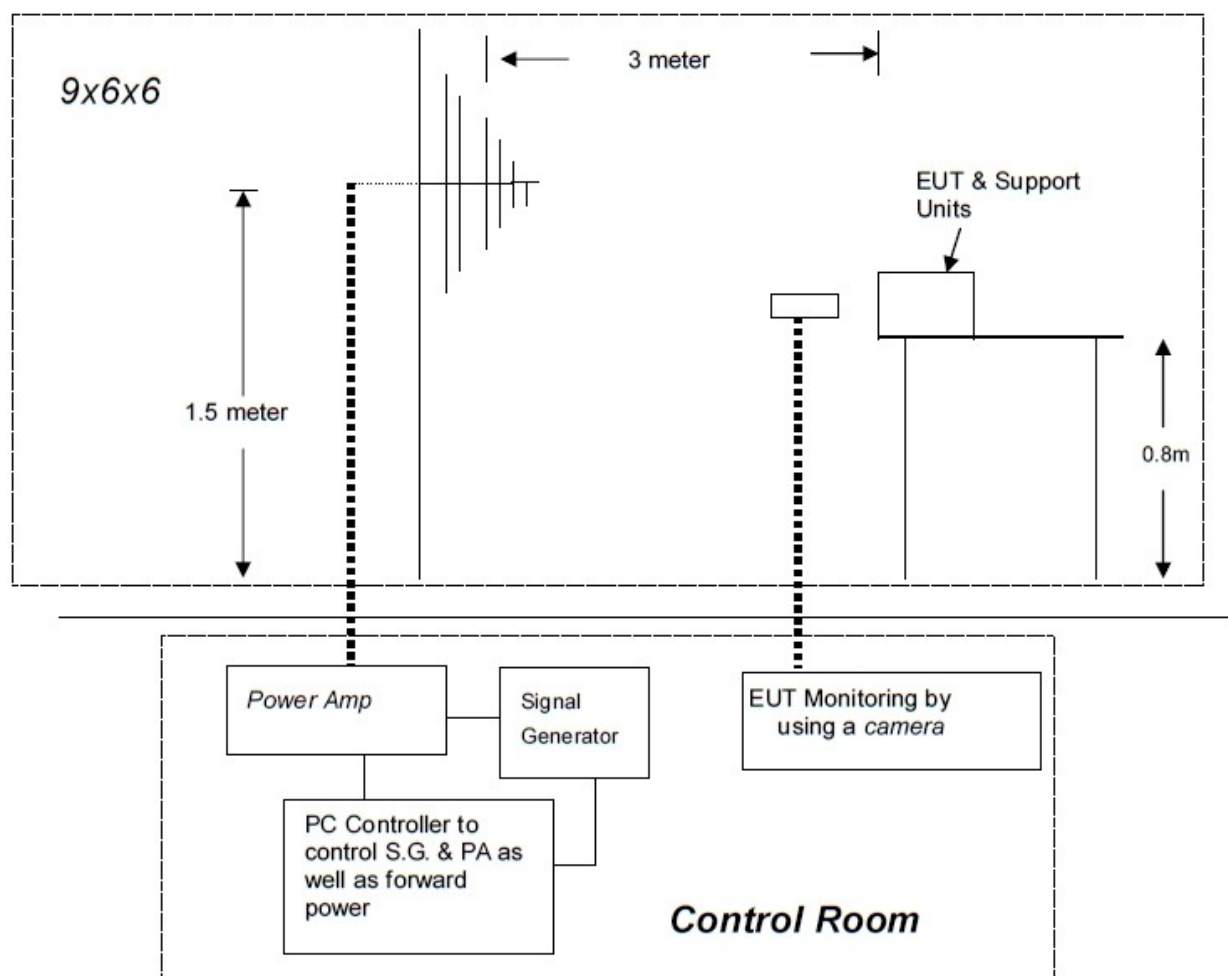
| Contact Discharge |                                     |                                     |                                     |                          |                            |                                       |
|-------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|----------------------------|---------------------------------------|
| Test Points       | Test Levels                         |                                     | Results                             |                          |                            |                                       |
|                   | ± 2 KV                              | ±4 KV                               | Pass                                | Fail                     | Performance Criterion      |                                       |
| Front             | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> A | <input checked="" type="checkbox"/> B |
| Back              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> A | <input checked="" type="checkbox"/> B |
| Left              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> A | <input checked="" type="checkbox"/> B |
| Right             | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> A | <input checked="" type="checkbox"/> B |
| Top               | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> A | <input checked="" type="checkbox"/> B |
| Bottom            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> A | <input checked="" type="checkbox"/> B |

| Discharge To Horizontal Coupling Plane |                                     |                                     |                                     |                          |                            |                                       |
|----------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|----------------------------|---------------------------------------|
| Side of EUT                            | Test Levels                         |                                     | Results                             |                          |                            |                                       |
|                                        | ± 2 KV                              | ± 4 KV                              | Pass                                | Fail                     | Performance Criterion      |                                       |
| Front                                  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> A | <input checked="" type="checkbox"/> B |
| Back                                   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> A | <input checked="" type="checkbox"/> B |
| Left                                   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> A | <input checked="" type="checkbox"/> B |
| Right                                  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> A | <input checked="" type="checkbox"/> B |

| Discharge To Vertical Coupling Plane |                                     |                                     |                                     |                          |                            |                                       |
|--------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|----------------------------|---------------------------------------|
| Side of EUT                          | Test Levels                         |                                     | Results                             |                          |                            |                                       |
|                                      | ± 2 KV                              | ± 4 KV                              | Pass                                | Fail                     | Performance Criterion      |                                       |
| Front                                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> A | <input checked="" type="checkbox"/> B |
| Back                                 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> A | <input checked="" type="checkbox"/> B |
| Left                                 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> A | <input checked="" type="checkbox"/> B |
| Right                                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> A | <input checked="" type="checkbox"/> B |

## 10. RF FIELD STRENGTH SUSCEPTABILITY TEST

Block diagram of test setup



Test standard:

EN 61547: 2009 (EN61000-4-3: 2006+A1:2008, Severity level: 2, 3V/m)

Severity level:

# RF Field Strength Susceptibility Test Results

|                 |                                                                                                              |               |               |
|-----------------|--------------------------------------------------------------------------------------------------------------|---------------|---------------|
| Standard        | <input type="checkbox"/> IEC 61000-4-3 <input checked="" type="checkbox"/> EN 61000-4-3                      |               |               |
| Applicant       |                                                                                                              |               |               |
| EUT             | LED Flood Light                                                                                              | Temperature   | 26°C          |
| M/N             |                                                                                                              | Humidity      | 51%           |
| Field Strength  | 3 V/m                                                                                                        | Criterion     | A             |
| Test Mode       | ON                                                                                                           | Test Engineer |               |
| Frequency Range | 80 MHz to 1000 MHz                                                                                           | Test Date     | July 15, 2014 |
| Modulation      | <input type="checkbox"/> None <input type="checkbox"/> Pulse <input checked="" type="checkbox"/> AM 1KHz 80% |               |               |
| Steps           | 1%                                                                                                           |               |               |

|       | Horizontal | Vertical |
|-------|------------|----------|
| Front | PASS       | PASS     |
| Right | PASS       | PASS     |
| Rear  | PASS       | PASS     |
| Left  | PASS       | PASS     |

## Test Equipment:

1. Signal Generator: 2031 (MARCONI)
2. Power Amplifier: 500A100 & 100W/1000M1 (A&R)
3. Power Antenna: 3108 (EMCO) & AT1080 (A&R)
4. Field Monitor: FM2000 (A&R)

## Note:

11. ELECTRICAL FAST TRANSIENT/BURST TEST

Block diagram of setup:

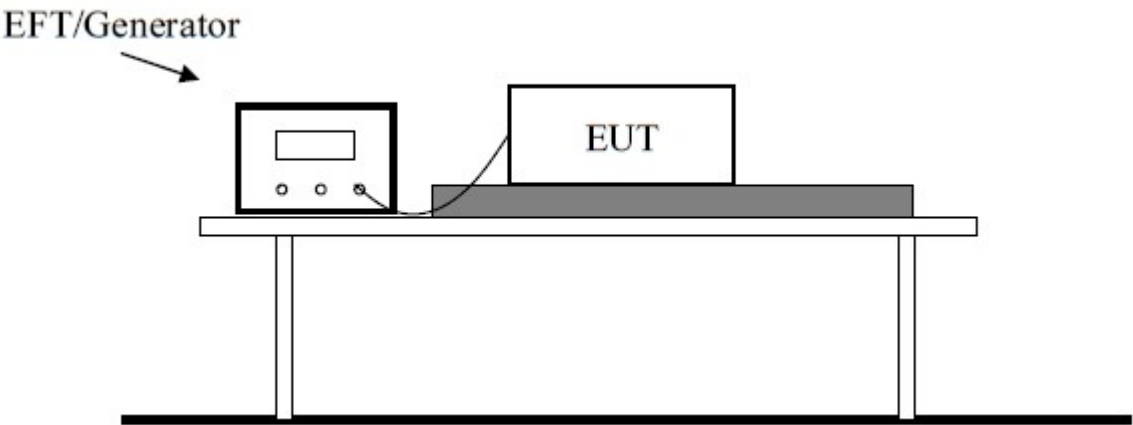


Photo of testing station:



Test standard:

EN 61547: 2009 (EN 61000-4-4: 2004+A1:2010, Severity Level: Level 2: 1kV)

Test result: PASS

Severity Level:

| Open Circuit Output Test Voltage $\pm 10\%$ |                          |                                                     |
|---------------------------------------------|--------------------------|-----------------------------------------------------|
| Level                                       | On LED Flood Light Lines | On I/O (Input/Output) Signal data and control lines |
| 1.                                          | 0.5 KV                   | 0.25 KV                                             |
| 2.                                          | 1 KV                     | 0.5 KV                                              |
| 3.                                          | 2 KV                     | 1 KV                                                |
| 4.                                          | 4 KV                     | 2 KV                                                |
| X                                           | Special                  | Special                                             |

# Electrical Fast Transient/Burst Test Results

|                      |                                                                                         |                    |               |
|----------------------|-----------------------------------------------------------------------------------------|--------------------|---------------|
| <b>Standard</b>      | <input type="checkbox"/> IEC 61000-4-4 <input checked="" type="checkbox"/> EN 61000-4-4 |                    |               |
| <b>Applicant</b>     |                                                                                         |                    |               |
| <b>EUT</b>           | LED Flood Light                                                                         | <b>Temperature</b> | 26°C          |
| <b>M/N</b>           |                                                                                         | <b>Humidity</b>    | 51%           |
| <b>Test Mode</b>     | ON                                                                                      | <b>Criterion</b>   | B             |
| <b>Test Engineer</b> |                                                                                         | <b>Test Date</b>   | July 15, 2014 |

| Line        | Test Voltage | Result (+) | Result (-) |
|-------------|--------------|------------|------------|
| L           | 1KV          | PASS       | PASS       |
| N           | 1KV          | PASS       | PASS       |
| PE          | 1KV          | PASS       | PASS       |
| L-N         | 1KV          | PASS       | PASS       |
| L-PE        | 1KV          | PASS       | PASS       |
| N-PE        | 1KV          | PASS       | PASS       |
| L-N-PE      | 1KV          | PASS       | PASS       |
| Signal Line |              |            |            |
| I/O Cable   |              |            |            |
| Note:       |              |            |            |

12. SURGE IMMUNITY TEST

Block diagram of test setup:

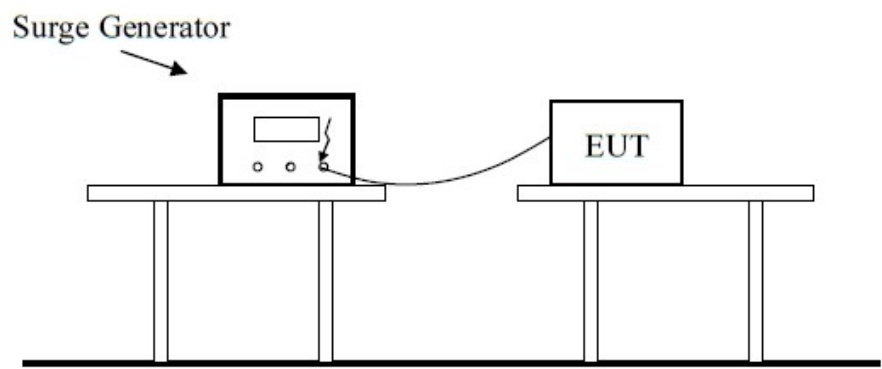


Photo of testing station:



Test standard:

EN61547:2009 (EN61000-4-5: 2006, Severity Level: Line to line: Level 2, 1.0 kV; Line to earth: level 3, 2.0 kV)

Severity level:

| Severity Level | Open-Circuit Test Voltage (KV) |
|----------------|--------------------------------|
| 1              | 0.5                            |
| 2              | 1.0                            |
| 3              | 2.0                            |
| 4              | 4.0                            |
| *              | Special                        |

Test results: PASS



# Surge Immunity Test Result

|               |                                                                                         |             |               |
|---------------|-----------------------------------------------------------------------------------------|-------------|---------------|
| Standard      | <input type="checkbox"/> IEC 61000-4-5 <input checked="" type="checkbox"/> EN 61000-4-5 |             |               |
| Applicant     |                                                                                         |             |               |
| EUT           | LED Flood Light                                                                         | Temperature | 26℃           |
| M/N           |                                                                                         | Humidity    | 51 %          |
| Test Mode     | ON                                                                                      | Criterion   | B             |
| Test Engineer |                                                                                         | Test Date   | July 15, 2014 |

| Location    | Polarity | Phase Angle | Number of Pulse | Pulse Voltage (KV) | Result |
|-------------|----------|-------------|-----------------|--------------------|--------|
| L-N         | +        | 0°          | 5               | 1.0                | PASS   |
|             | +        | 90°         | 5               | 1.0                | PASS   |
|             | +        | 180°        | 5               | 1.0                | PASS   |
|             | +        | 270°        | 5               | 1.0                | PASS   |
|             | -        | 0°          | 5               | 1.0                | PASS   |
|             | -        | 90°         | 5               | 1.0                | PASS   |
|             | -        | 180°        | 5               | 1.0                | PASS   |
|             | -        | 270°        | 5               | 1.0                | PASS   |
| L-PE        | +        | 0°          | 5               | 2.0                | PASS   |
|             | +        | 90°         | 5               | 2.0                | PASS   |
|             | +        | 180°        | 5               | 2.0                | PASS   |
|             | +        | 270°        | 5               | 2.0                | PASS   |
|             | -        | 0°          | 5               | 2.0                | PASS   |
|             | -        | 90°         | 5               | 2.0                | PASS   |
|             | -        | 180°        | 5               | 2.0                | PASS   |
|             | -        | 270°        | 5               | 2.0                | PASS   |
| N-PE        | +        | 0°          | 5               | 2.0                | PASS   |
|             | +        | 90°         | 5               | 2.0                | PASS   |
|             | +        | 180°        | 5               | 2.0                | PASS   |
|             | +        | 270°        | 5               | 2.0                | PASS   |
|             | -        | 0°          | 5               | 2.0                | PASS   |
|             | -        | 90°         | 5               | 2.0                | PASS   |
|             | -        | 180°        | 5               | 2.0                | PASS   |
|             | -        | 270°        | 5               | 2.0                | PASS   |
| Signal Line |          |             |                 |                    |        |
|             |          |             |                 |                    |        |
| Note        |          |             |                 |                    |        |



13. INJECTED CURRENTS SUSCEPTABILITY TEST

Block diagram of test setup

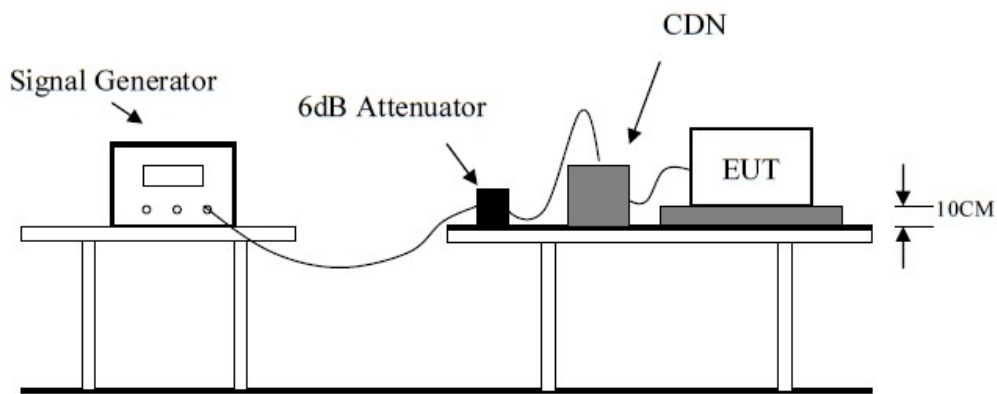
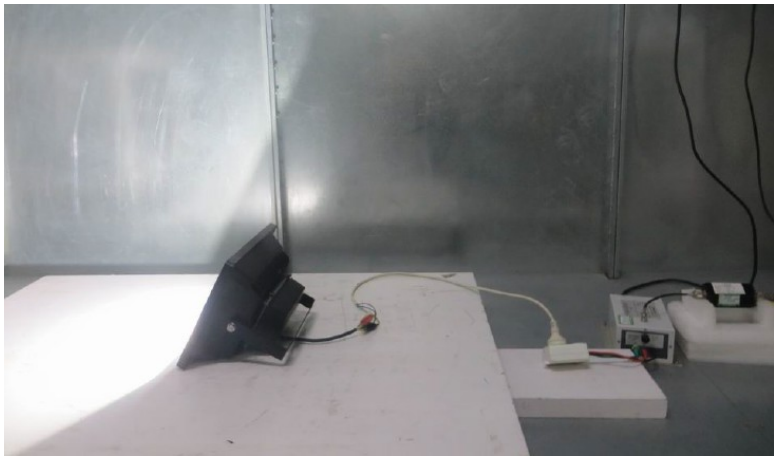


Photo of testing station:



Test standard

EN 61547:2009 (EN61000-4-6:2009, Severity Level: 3V (rms), 0.15 MHz – 80 MHz)

Severity level:

| Level | Field Strength (V) |
|-------|--------------------|
| 1.    | 1                  |
| 2.    | 3                  |
| 3.    | 10                 |
| X     | Special            |

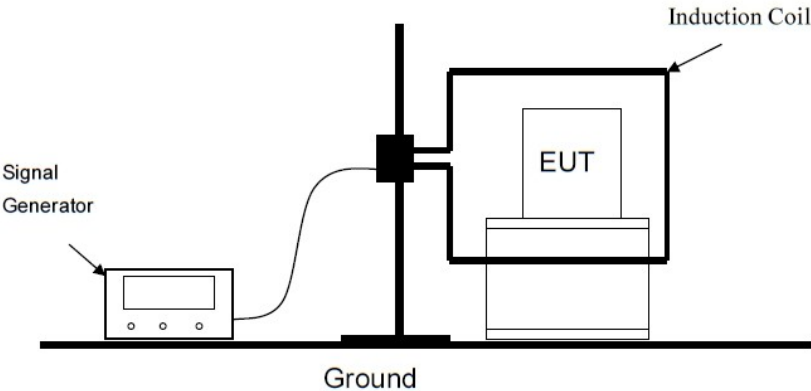
Test results: PASS

| Injected Currents Susceptibility Test Results |                                                                                         |             |               |
|-----------------------------------------------|-----------------------------------------------------------------------------------------|-------------|---------------|
| Standard                                      | <input type="checkbox"/> IEC 61000-4-6 <input checked="" type="checkbox"/> EN 61000-4-6 |             |               |
| Applicant                                     |                                                                                         |             |               |
| EUT                                           | LED Flood Light                                                                         | Temperature | 26℃           |
| M/N                                           |                                                                                         | Humidity    | 51%           |
| Test Mode                                     | ON                                                                                      | Criterion   | A             |
| Test Engineer                                 |                                                                                         | Test Date   | July 15, 2014 |

| Frequency Range (MHz)                                                                                                                                                                                                    | Injected Position | Strength (Unmodulated) | Criterion | Result |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------------|-----------|--------|
| 0.15 ~ 80                                                                                                                                                                                                                | AC Mains          | 3V                     | A         | PASS   |
| Remark:<br>1. Modulation Signal:1kHz 80% AM<br>2. Measurement Equipment:<br>Simulator: CIT-10 (FRANKONIA)<br>CDN : <input type="checkbox"/> CDN-M2 (FRANKONIA)<br><input checked="" type="checkbox"/> CDN-M3 (FRANKONIA) |                   |                        |           |        |
| Note:                                                                                                                                                                                                                    |                   |                        |           |        |

14. MAGNETIC FIELD IMMUNITY TEST

Block diagram of test setup



Test standard:  
EN 61547:2009 (EN 61000-4-8: 2010, Severity Level 2: 3A/m)  
Severity level:

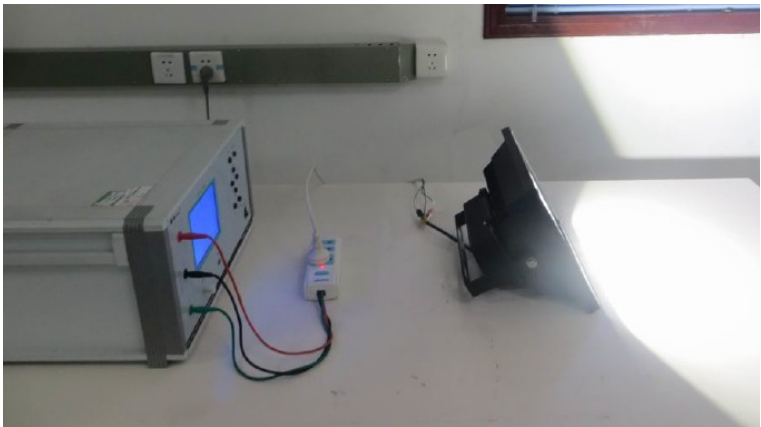
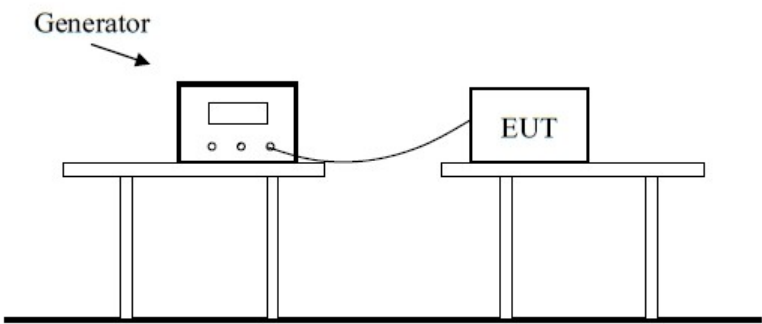
| Level | Magnetic Field Strength (A/m) |
|-------|-------------------------------|
| 1.    | 1                             |
| 2.    | 3                             |
| 3.    | 10                            |
| 4.    | 30                            |
| 5.    | 100                           |
| X     | Special                       |

Test results: PASS

| Magnetic Field Immunity Test Result |                                                                                         |                  |               |        |
|-------------------------------------|-----------------------------------------------------------------------------------------|------------------|---------------|--------|
| Standard                            | <input type="checkbox"/> IEC 61000-4-8 <input checked="" type="checkbox"/> EN 61000-4-8 |                  |               |        |
| Applicant                           |                                                                                         |                  |               |        |
| EUT                                 | LED Flood Light                                                                         | Temperature      | 26℃           |        |
| M/N                                 |                                                                                         | Humidity         | 51%           |        |
| Test Mode                           | ON                                                                                      | Criterion        | A             |        |
| Test Engineer                       |                                                                                         | Test Date        | July 15, 2014 |        |
| Test Level (A/M)                    | Testing Duration                                                                        | Coil Orientation | Criterion     | Result |
| 3                                   | 5 mins                                                                                  | X                | A             | PASS   |
| 3                                   | 5 mins                                                                                  | Y                | A             | PASS   |
| 3                                   | 5 mins                                                                                  | Z                | A             | PASS   |
| Note:                               |                                                                                         |                  |               |        |

15. VOLTAGE DIPS AND INTERRUPTIONS TEST

Block diagram of test setup:



Test standard:

EN 61547:2009 (EN 61000-4-11:2004)

Severity level:

| Test Level<br>(%U <sub>T</sub> ) | Voltage dip and short<br>interruptions<br>(%U <sub>T</sub> ) | Duration<br>(in period) |
|----------------------------------|--------------------------------------------------------------|-------------------------|
| 0                                | 100                                                          | 0.5                     |
| 70                               | 30                                                           | 10                      |

Test results: PASS

| Voltage Dips And Interruptions Test Results |                                                                                           |             |               |
|---------------------------------------------|-------------------------------------------------------------------------------------------|-------------|---------------|
| Standard                                    | <input type="checkbox"/> IEC 61000-4-11 <input checked="" type="checkbox"/> EN 61000-4-11 |             |               |
| Applicant                                   |                                                                                           |             |               |
| EUT                                         | LED Flood Light                                                                           | Temperature | 26°C          |
| M/N                                         |                                                                                           | Humidity    | 51%           |
| Test Mode                                   | ON                                                                                        | Criterion   | B&C           |
| Test Engineer                               |                                                                                           | Test Date   | July 15, 2014 |

| Test Level<br>% U <sub>T</sub> | Voltage Dips & Short<br>Interruptions<br>% U <sub>T</sub> | Duration<br>(in periods) | Criterion | Result |
|--------------------------------|-----------------------------------------------------------|--------------------------|-----------|--------|
| 0                              | 100                                                       | 0.5P                     | B         | PASS   |
| 70                             | 30                                                        | 10P                      | C         | PASS   |

Note: