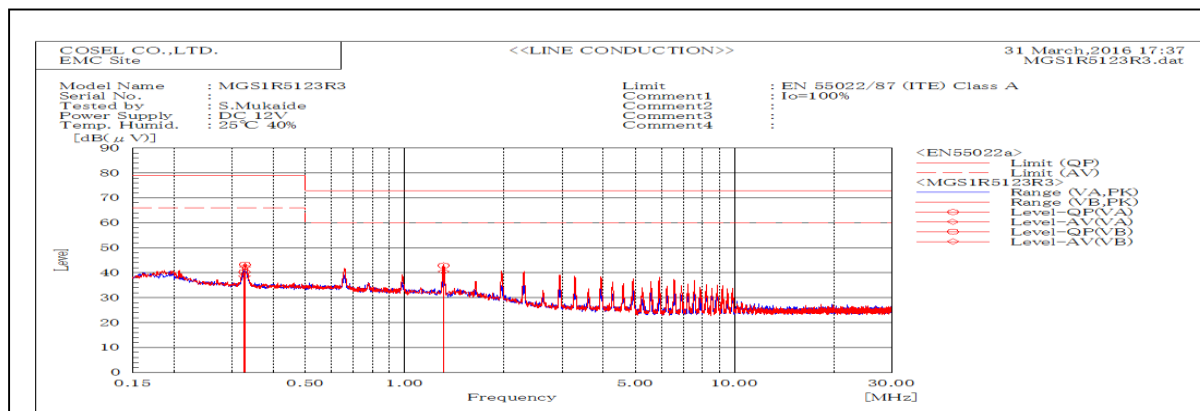
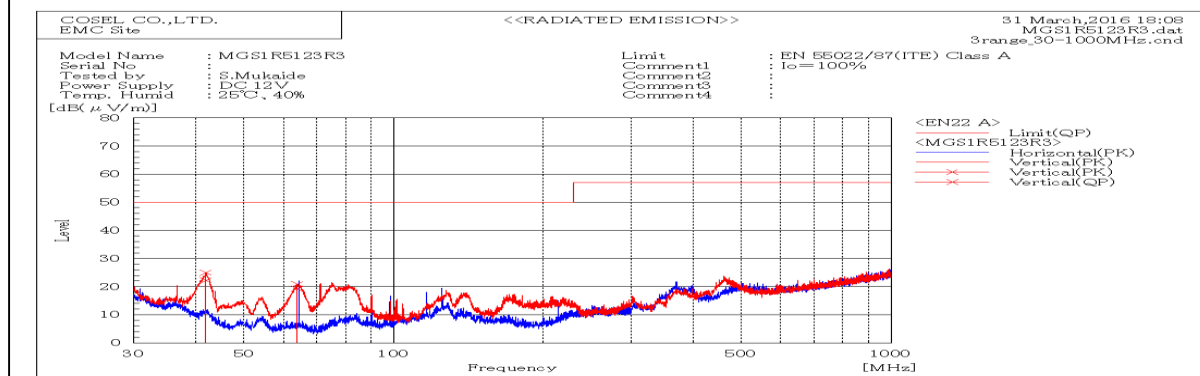


| DATA SHEET | | Date | 31-Mar-16 |
|------------|--|-----------|------------|
| Model | MGS1R5123R3 | Temp. | 25 degreeC |
| Test | EMI Line conduction & Radiated emission | Humid. | 40 %RH |
| | | Tested by | S.Mukaide |



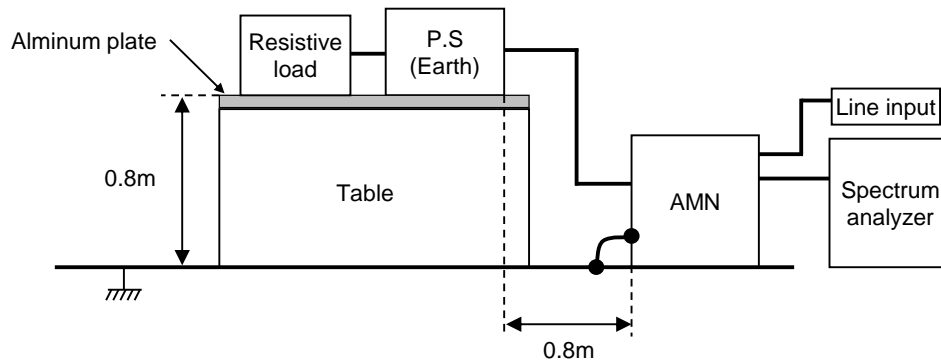
| Frequency MHz | Harm | Line Phase | Reading dB(μV) | | Factor dB | Level dB(μV) | | Limit dB(μV) | | Margin dB | | Pass/ Fail | Remark |
|------------------|------|---------------|-------------------|------|--------------|-----------------|------|-----------------|----|--------------|------|---------------|--------|
| | | | QP | AV | | QP | AV | QP | AV | QP | AV | | |
| 0.32663 | | VA | 20.3 | 18.6 | 20 | 40.3 | 38.6 | 79 | 66 | 38.7 | 27.4 | Pass | |
| 0.32813 | | VB | 23.3 | 22.4 | 20 | 43.3 | 42.4 | 79 | 66 | 35.7 | 23.6 | Pass | |
| 1.31329 | | VB | 22.9 | 20.5 | 20 | 42.9 | 40.5 | 73 | 60 | 30.1 | 19.5 | Pass | |



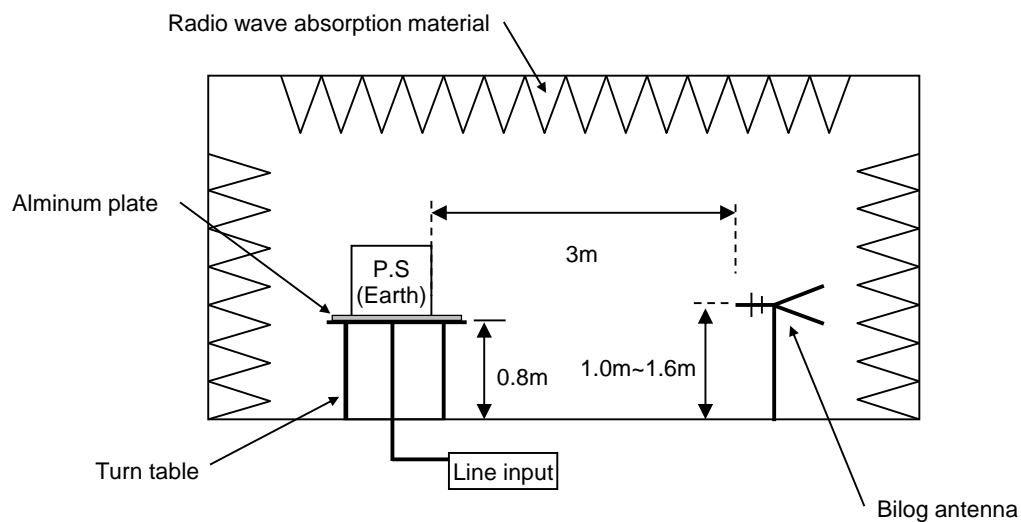
| Frequency MHz | Harm | Polariz ation | Stabilit y | Reading dB(μV) | | Factor dB(1/m) | Level dB(μV/m) | | Limit dB(μV/m) | Margin dB | Pass/ Fail | Height cm | Angle deg | Remark |
|------------------|------|------------------|---------------|-------------------|-------|-------------------|-------------------|----|-------------------|--------------|---------------|--------------|--------------|--------|
| | | | | QP | AV | | QP | AV | | | | | | |
| 41.809 | | V | Stable | 38.2 | -16 | -16 | 22.2 | 50 | 27.8 | 22.2 | Pass | 108 | 259 | |
| 63.859 | | V | Stable | 42.1 | -22.8 | -22.8 | 19.3 | 50 | 30.7 | 19.3 | Pass | 104 | 295 | |

| DATA SHEET | | Date | 31-Mar-16 |
|------------|--|-----------|------------|
| Model | Circuit used for measurement | Temp. | 25 degreeC |
| Test | EMI Line conduction & Radiated emission | Humid. | 40 %RH |
| | | Tested by | S.Mukaide |

1. Line conduction



2. Radiated emission

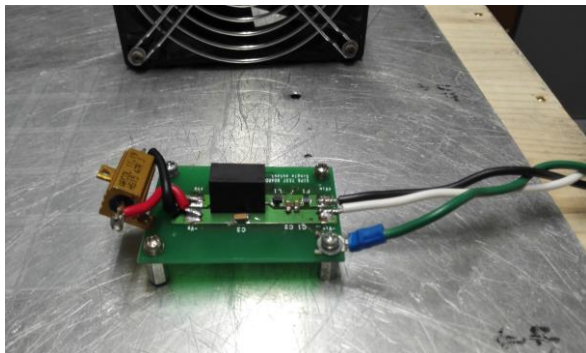


Conditions

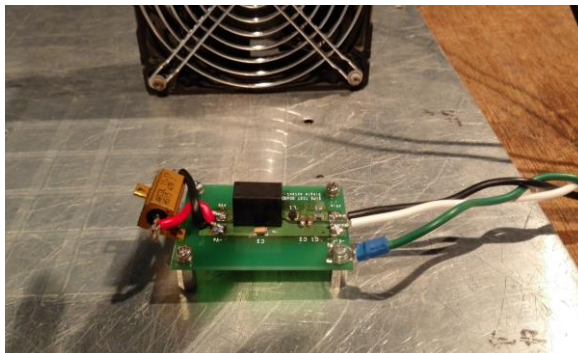
Test : EMI
Model Name : MGS1R5□□

○Photographs of Test Set-Up

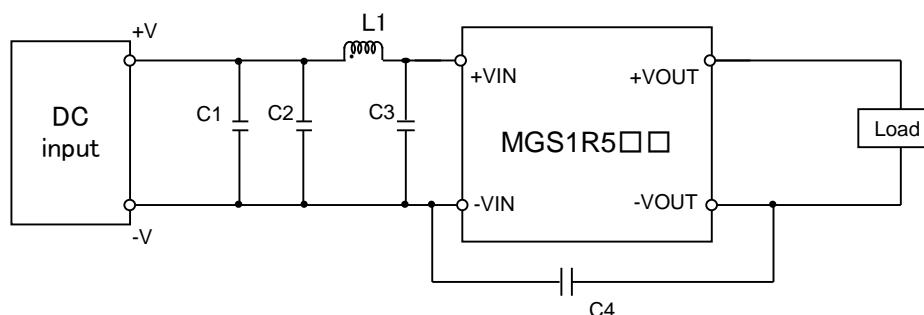
LINE CONDUCTION



RADIATED EMISSION



○Testing circuitry



- C1,C2,C3 : MGS1R505□□ 16V 22 μ F Ceramic capacitor (GRM31CR71C226K MURATA MANUFACTURING)
MGS1R512□□ 25V 10 μ F Ceramic capacitor (GRM31CR71E106K MURATA MANUFACTURING)
MGS1R524□□ 50V 4.7 μ F Ceramic capacitor (GRM31CR71H475K MURATA MANUFACTURING)
MGS1R548□□ 100V 2.2 μ F Ceramic capacitor (GRM31CR72A225K MURATA MANUFACTURING)

- C4 : MGS1R505□□ 2kV 470pF Ceramic capacitor (GR442QR73D471K MURATA MANUFACTURING)
MGS1R512□□ 2kV 470pF Ceramic capacitor (GR442QR73D471K MURATA MANUFACTURING)
MGS1R524□□ 2kV 470pF Ceramic capacitor (GR442QR73D471K MURATA MANUFACTURING)
MGS1R548□□ 2kV 470pF Ceramic capacitor (GR442QR73D471K MURATA MANUFACTURING)

- L1 : MGS1R505□□ 1550mA 3.3 μ H Inductor(LQH32PN3R3NNCL MURATA MANUFACTURING)
MGS1R512□□ 1200mA 4.7 μ H Inductor(LQH32PN4R7NNCL MURATA MANUFACTURING)
MGS1R524□□ 900mA 10 μ H Inductor(LQH32PN100MNCL MURATA MANUFACTURING)
MGS1R548□□ 550mA 22 μ H Inductor(LQH32PN220MNCL MURATA MANUFACTURING)