# *SECTION 8*

*Test Reports of Human Exposure to Electromagnetic Fields*
*(EN62311 /2008)*

# *EN62311/2008*

## *Assessment criteria to permit evaluation of compatibility of electrical and electronic apparatus with standards for human exposure to electromagnetic fields*

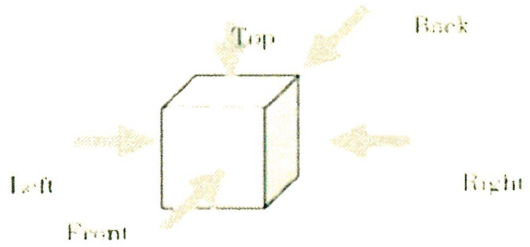
| *Equipment* | *Model* | *Serial No.* |
|---|---|---|
| Multi-Function Printer | TASKalfa 356ci / 406ci | Z795300015 |
| Paper Feeder | PF-5120 | Z7J5300158 |
| | PF-5130 | Z7K5300102 |
| | PF-5140 | Z7L5300058 |
| Document Processor | DP-5100 | Z7N5300057 |
| | DP-5110 | Z7P5300071 |
| Finisher | DF-5100 | Z7T5300071 |
| | DF-5110 | Z7Q5300058 |
| | DF-5120 | Z7R5300051 |
| Punch Unit | PH-5120 | Z7V5300045 |
| Multi Tray | MT-5100 | Z7U5300081 |
| Job Separator | JS-5100 | Z7H5300059 |
| Printer NIC | IB-50 | TEST-1 |
| | IB-51 | TEST-1 |
| Bridge | AK-5100 | Z7G5300125 |
| FAX Kit | FAX System 10 | ZEF5300008 |
| Hard Disk Drive | HD-11 | ZEM5300021 |

This test was applied as follows.

| *Frequency Range* | *E-Field Strength (V/m)* | *H-Field Strength (A/m)* |
|---|---|---|
| Up to 1Hz | --- | $3.2\times10^4$ |
| 1Hz-8Hz | 10,000 | $3.2\times10^4/f^2$ |
| 8Hz-25Hz | 10.000 | 4000/f |
| 0.025kHz-0.8kHz | 250/f | 4/f |
| 0.8kHz-3kHz | 250/f | 5 |
| 3kHz-150kHz | 87 | 5 |
| 0.15MHz-1MHz | 87 | 0.73/f |
| 1MHz-10MHz | $87/f^{1/2}$ | 0.73/f |
| 10MHz-400MHz | 27.5 | 0.073 |
| 400MHz-2000MHz | $1.375f^{1/2}$ | $0.0037f^{1/2}$ |
| 2GHz-300GHz | 61 | 0.16 |

We entrusted this test to Tokin EMC Engineering Co., Ltd.
See the attached documents for details.

| | |
|---|---|
| Date & Location | :2015/4/17 Osaka Big AC |
| Manufacture | :TASKalfa 406ci |
| Product Category | : |
| Model Name (S/N) | :Z795300015 |
| Standard | : ICNIRP Guideline Gen.Pub. *1998* |
| AC Power | : 230 V, 50 Hz |
| Ambient | : 19.2 ℃, 45.5 %, 989.1hPa |
| Operating Mode | :Copy |
| Operator | :S.Takahashi |
| Final Judgment | Pass( 10 cm) |




An operation side is the Front.

| | | Measurement Equipment | Measurement Mode | Result | Result | | Max Point | Judgment (Pass or Fail) |
|---|---|---|---|---|---|---|---|---|
| H-Field | 1Hz ～ 400kHz | NARDA ELT400 | Std Mode 100% | Ambient | 0.198 | % | | |
| | | | | 0cm | 29.04 | | Back | Pass |
| | | | | 10cm | 4.294 | | Back | Pass |
| | | | | 30cm | 0.952 | | Back | Pass |
| | 300kHz ～ 30MHz | NARDA NBM520 (HF3061) | MAX Hold (Peak) 0.073A/m | Ambient | 0.0101 | A/m | | |
| | | | | 0cm | 0.2540 | | Back | Fail |
| | | | | 10cm | 0.0485 | | Back | Pass |
| | | | | 30cm | 0.0132 | | Back | Pass |
| | 27MHz ～ 1GHz | NARDA NBM520 (HF0191) | MAX Hold (Peak) 0.073A/m | Ambient | 0.0037 | A/m | | |
| | | | | 0cm | 0.0303 | | Back | Pass |
| | | | | 10cm | 0.0071 | | Back | Pass |
| | | | | 30cm | 0.0055 | | Back | Pass |
| E-Field | 100kHz ～ 3GHz | NARDA NBM520 (EF0391) | MAX Hold (Peak 27.5V/m | Ambient | 0.15 | V/m | | |
| | | | | 0cm | 56.92 | | Back | Fail |
| | | | | 10cm | 6.45 | | Back | Pass |
| | | | | 30cm | 1.27 | | Back | Pass |
| | 300kHz ～ 50GHz | NARDA NBM520 (ED5091) | MAX Hold (Peak) 20% | Ambient | 0.0222 | % | | |
| | | | | 0cm | 7.068 | | Back | Pass |
| | | | | 10cm | 0.3854 | | Back | Pass |
| | | | | 30cm | 0.1147 | | Back | Pass |