

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan

District Shenzhen, China 518057

Telephone: +86 (0) 755 2601 2053 Report No.:SZEM110800306001

FCC Test Report (Verification)

Application No.: SZEM1108003060IT

Applicant: Kenxen Limited

Address of Applicant: 26/F., Lever Tech Center, 69-71 King Yip St., Kwun Tong, H.K.

Manufacturer/Factory: Kenxen Electronic (SZ) Limited

Address of Manufacturer 3/F, BIK.6 HuaXinRuiMing Industrial Park, Lang Rong Road, XinWei DaLang

/Factory: Community, Bao'an District, Shenzhen, China

FCC ID: ZVTA4X00

Equipment Under Test (EUT):

EUT Name: Portable Scanner

Item No.: A4A, A4B, A4C, A4D, A4E, A4F.♣

Please refer to section 2 of this report which indicates which item was actually

tested and which were electrically identical.

Standards: FCC PART15 SUBPART B:2010

Date of Receipt: 2011-08-17

Date of Test: 2011-08-24 to 2011-08-30

Date of Issue: 2011-09-01

Test Result : Pass*

* In the configuration tested, the EUT complied with the standards specified above. Authorized Signature:

Authorized Signature.

Jack Zhang EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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2 Test Summary

| Test | Test Requirement | Test Method | Class / Severity | Result |
|--------------------------------------|---------------------------------|-----------------|------------------|--------|
| Radiated Emission (30MHz to 1GHz) | FCC PART 15, SUBPART B: 2010 | ANSI C63.4:2009 | Class B | PASS |
| Conducted Emission (150kHz to 30MHz) | FCC PART 15, SUBPART B: 2010 | ANSI C63.4:2009 | Class B | PASS |

Remark:

Item No.: A4A, A4B, A4C, A4D, A4E, A4F

Only the item A4A was tested, since the electrical circuit design, layout, component used and internal wiring were identical for all above items. The only difference is model name and cosmetic part.



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4 General Information

4.1 Details of E.U.T.

Power Supply: 4.5V DC (1.5V x 3 "AAA" Size Batteries)

Work voltage: DC 3.3V-5V

USB Cable 100cm

4.2 Description of Support Units

The EUT has been tested with associated equipment below.

| Description | Manufacturer | Model No. |
|----------------|-------------------|--------------|
| PC | DELL | OPTIPLEX 755 |
| LCD-displaying | DELL | E1909WF |
| KEYBOARD | DELL | SK-8115 |
| MOUSE | DELL | MOC5110 |
| PC | DELL | OPTIDLEX 330 |
| LCD-displaying | DELL | SP2208WFPT |
| KEYBOARD | DELL | SK-8115 |
| MOUSE | DELL | MOC5110 |
| Coder | HengTong ELECTRON | HT4000 |
| Printer | Canon | BJC-1000SP |

4.3 Standards Applicable for Testing

The customer requested FCC tests for Portable Scanner. The standard used was FCC PART 15, SUBPART B, CLASS B.

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch E&E Lab,

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.



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4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

VCCI

The 3m Semi-anechoic chamber and Shielded Room (7.5m \times 4.0m \times 3.0m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2197 and C-2383 respectively.

Date of Registration: September 29, 2008. Valid until September 28, 2011.

• FCC – Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 556682, March 16, 2011

Industry Canada (IC)

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1.

4.6 Deviation from Standards

None.

4.7 Abnormalities from Standard Conditions

None.



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5 Equipments Used during Test

| | RE in Chamber | | | | | |
|------|-----------------------------------|-------------------------|-----------|------------------|-----------------------|---------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date (yyyy-mm-dd) | Cal.Due date (yyyy-mm-dd) |
| 1 | 3m Semi-Anechoic Chamber | ETS-LINDGREN | N/A | SEL0017 | 2011-06-10 | 2012-06-10 |
| 2 | EMI Test Receiver | Rohde & Schwarz | ESIB26 | SEL0023 | 2011-03-11 | 2012-03-11 |
| 3 | EMI Test software | AUDIX | E3 | SEL0050 | N/A | N/A |
| 4 | Coaxial cable | SGS | N/A | SEL0028 | 2011-05-29 | 2012-05-29 |
| 5 | BiConiLog Antenna (26-3000MHz) | ETS-LINDGREN | 3142C | SEL0015 | 2010-11-09 | 2011-11-09 |
| 6 | Pre-amplifier (0.1-1300MHz) | Agilent Technologies | 8447D | SEL0053 | 2011-05-26 | 2012-05-26 |
| 7 | Double-ridged horn (1-18GHz) | ETS-LINDGREN | 3117 | SEL0006 | 2010-11-09 | 2011-11-09 |
| 8 | Horn Antenna (18-26GHz) | ETS-LINDGREN | 3160 | SEL0076 | 2010-11-09 | 2011-11-09 |
| 9 | Band filter | Amindeon | Asi 3314 | SEL0094 | 2011-05-26 | 2012-05-26 |
| 10 | Active Loop Antenna | Beijing Daze | ZN30900A | SEL0097 | 2010-11-09 | 2011-11-09 |

| | Conducted Emiss | ion | | | | |
|------|-------------------|--|-----------------|------------------|-----------------------|---------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date (yyyy-mm-dd) | Cal.Due date (yyyy-mm-dd) |
| 1 | Shielding Room | ZhongYu Electron | GB-88 | SEL0042 | 2011-06-10 | 2012-06-10 |
| 2 | LISN | Rohde & Schwarz | ENV216 | SEL0152 | 2010-10-27 | 2011-10-26 |
| 3 | 8 Line ISN | Fischer Custom Communications Inc. | FCC-TLISN-T8-02 | EMC0120 | 2011-01-17 | 2012-01-17 |
| 4 | 4 Line ISN | Fischer Custom Communications Inc. | FCC-TLISN-T4-02 | EMC0121 | 2011-01-17 | 2012-01-17 |
| 5 | 2 Line ISN | Fischer Custom Communications Inc. | FCC-TLISN-T2-02 | EMC0122 | 2011-01-17 | 2012-01-17 |
| 6 | EMI Test Receiver | Rohde & Schwarz | ESCI | SEL0022 | 2011-05-26 | 2012-05-26 |
| 7 | Coaxial Cable | SGS | N/A | SEL0024 | 2011-05-29 | 2012-05-29 |



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| | General used equipment | | | | | | | | | | |
|------|---------------------------------------|--------------|-----------|-----------------------|-----------------------|---------------------------|--|--|--|--|--|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date (yyyy-mm-dd) | Cal.Due date (yyyy-mm-dd) | | | | | |
| 1 | Humidity/ Temperature Indicator | Shanghai | ZJ1-2B | SEL0102 to SEL0103 | 2010-11-04 | 2011-11-04 | | | | | |
| 2 | Humidity/ Temperature Indicator | Shanghai | ZJ1-2B | SEL0101 | 2011-03-10 | 2012-03-10 | | | | | |
| 3 | Barometer | ChangChun | DYM3 | SEL0088 | 2011-05-18 | 2012-05-18 | | | | | |



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6 Test Results

6.1 Conducted Emissions Mains Terminals, 150kHz to 30MHz

Test Requirement: FCC Part15 B
Test Method: ANSI C 63.4

Frequency Range: 150kHz to 30MHz

Class / Severity: Class B

Detector: Peak for pre-scan (9kHz Resolution Bandwidth)

Quasi-Peak if maximised peak within 6dB of Quasi-Peak limit

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

EUT Operation: Test the EUT in read and write SD card mode(Pretest PC scanner mode, read and

write SD card mode to find the worst case, the compliance test was performed at read and write SD card mode since no worst case was found), build the connection

between the EUT and PC, keep the EUT exchanging data with SD card.

6.1.2 Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

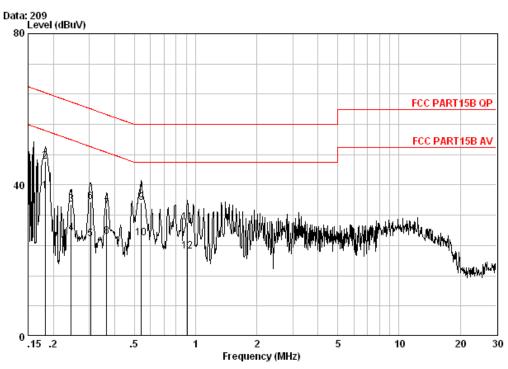
Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



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Live Line



Site : Shielding Room

Condition : FCC PART15B QP CE-20101216 LINE

Job No. : 3060IT

Mode : Read & Write SD card

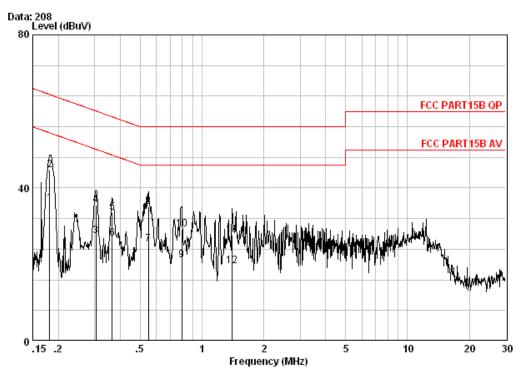
| | Freq | Cable Loss | LISN Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|-----|---------|---------------|----------------|---------------|-------|---------------|---------------|---------|
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| 1 0 | 0.18249 | 0.14 | 9.60 | 28.60 | 38.34 | 54.37 | -16.03 | Average |
| 2 | 0.18249 | 0.14 | 9.60 | 36.45 | 46.19 | 64.37 | -18.18 | QP |
| 3 | 0.24422 | 0.15 | 9.60 | 25.16 | 34.91 | 61.95 | -27.04 | QP |
| 4 | 0.24422 | 0.15 | 9.60 | 17.50 | 27.25 | 51.95 | -24.70 | Average |
| 5 | 0.30509 | 0.16 | 9.60 | 16.04 | 25.80 | 50.10 | -24.30 | Average |
| 6 | 0.30509 | 0.16 | 9.60 | 25.80 | 35.56 | 60.10 | -24.54 | QP |
| 7 | 0.36531 | 0.16 | 9.60 | 24.13 | 33.89 | 58.61 | -24.72 | QP |
| 8 | 0.36531 | 0.16 | 9.60 | 16.67 | 26.43 | 48.61 | -22.18 | Average |
| 9 | 0.54068 | 0.16 | 9.62 | 25.47 | 35.26 | 56.00 | -20.74 | QP |
| 10 | 0.54068 | 0.16 | 9.62 | 16.16 | 25.94 | 46.00 | -20.06 | Average |
| 11 | 0.91357 | 0.19 | 9.70 | 20.16 | 30.05 | 56.00 | -25.95 | QP |
| 12 | 0.91357 | 0.19 | 9.70 | 12.57 | 22.46 | 46.00 | -23.54 | Average |



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Neutral Line



Site : Shielding Room

Condition : FCC PART15B QP CE-20101216 NEUTRAL

Job No. : 3060IT

Mode: Read & Write SD card

| | | Cable | LISN | Read | | Limit | Over | |
|----|---------|-------|--------|-------|-------|-------|--------|---------|
| | Freq | Loss | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| 1 | 0.18152 | 0.14 | 9.60 | 26.28 | 36.02 | 54.42 | -18.40 | Average |
| 2 | 0.18152 | 0.14 | 9.60 | 34.94 | 44.68 | 64.42 | -19.74 | QP |
| 3 | 0.30509 | 0.16 | 9.60 | 17.63 | 27.39 | 50.10 | -22.71 | Average |
| 4 | 0.30509 | 0.16 | 9.60 | 25.76 | 35.52 | 60.10 | -24.59 | QP |
| 5 | 0.36531 | 0.16 | 9.60 | 23.81 | 33.57 | 58.61 | -25.03 | QP |
| 6 | 0.36531 | 0.16 | 9.60 | 16.95 | 26.71 | 48.61 | -21.90 | Average |
| 7 | 0.54934 | 0.16 | 9.63 | 15.57 | 25.36 | 46.00 | -20.64 | Average |
| 8 | 0.54934 | 0.16 | 9.63 | 25.31 | 35.10 | 56.00 | -20.90 | QP |
| 9 | 0.79600 | 0.18 | 9.70 | 11.16 | 21.04 | 46.00 | -24.96 | Average |
| 10 | 0.79600 | 0.18 | 9.70 | 19.29 | 29.17 | 56.00 | -26.83 | QP |
| 11 | 1.403 | 0.20 | 9.70 | 17.69 | 27.59 | 56.00 | -28.41 | QP |
| 12 | 1.403 | 0.20 | 9.70 | 9.64 | 19.54 | 46.00 | -26.46 | Average |



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6.2 Radiated Emissions, 30MHz to 1GHz

Test Requirement: FCC Part15 B
Test Method: ANSI C63.4
Frequency Range: 30MHz to 1GHz

Measurement Distance: 3m
Class / Severity: Class B

Limit: 40.0 dBμV/m between 30MHz & 88MHz

 $43.5~dB\mu V/m$ between 88MHz~&~216MHz $46.0~dB\mu V/m$ between 216MHz~&~960MHz

54.0 dBµV/m above 960MHz

Detector: Peak for pre-scan (120kHz resolution bandwidth)

Quasi-Peak if maximised peak within 6dB of limit

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

EUT Operation: Test the EUT in scanner mode, keep the EUT working as a scanner.

Test the EUT in PC scanner mode, build the connection between the EUT and PC,

keep the EUT scanning image to PC software.

Test the EUT in read and write SD card mode, build the connection between the

EUT and PC, keep the EUT exchanging data with SD card.

6.2.2 Measurement Data

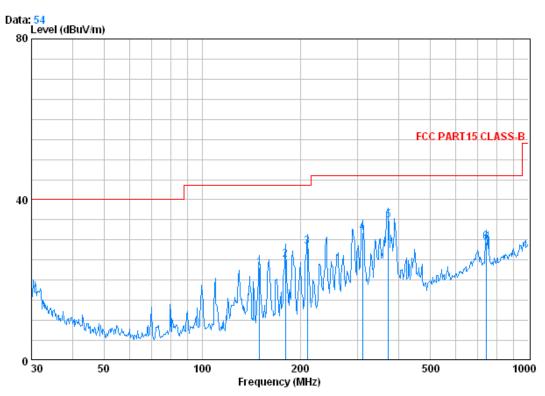
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.



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Scanner mode Horizontal



Condition : FCC PART15 CLASS-B 3m 0042673 HORIZONTAL

Job No. : 3060IT Test mode : SCANNER

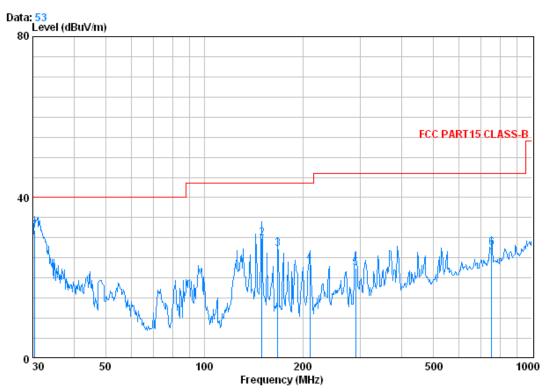
| | | Cablei | lntenna | Preamp | Read | | Limit | Over |
|---|---------|--------|---------|--------|-------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit |
| | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 150.011 | 1.32 | 9.00 | 26.91 | 30 71 | 23.12 | 43 50 | -20.38 |
| _ | | | | | | | | |
| 2 | 180.017 | 1.37 | 9.90 | 26.77 | 40.49 | 24.99 | 43.50 | -18.51 |
| 3 | 210.048 | 1.46 | 10.73 | 26.66 | 42.76 | 28.28 | 43.50 | -15.22 |
| 4 | 309.998 | 1.93 | 14.29 | 26.48 | 42.13 | 31.86 | 46.00 | -14.14 |
| 5 | 372.005 | 2.12 | 15.94 | 26.95 | 43.77 | 34.88 | 46.00 | -11.12 |
| 6 | 742.259 | 3.03 | 21.67 | 27.36 | 32.09 | 29.43 | 46.00 | -16.57 |



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Vertical



Condition : FCC PART15 CLASS-B 3m 0042673 VERTICAL

Job No. : 3060IT Test mode : SCANNER

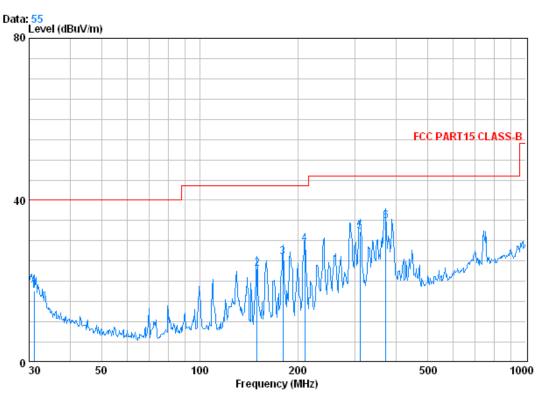
| | | Cable | intenna | Preamp | Read | | Limit | Over |
|---|---------|-------|---------|--------|-------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit |
| | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| | | | | | | | | |
| 1 | 30.424 | 0.60 | 15.17 | 27.36 | 43.45 | 31.87 | 40.00 | -8.13 |
| 2 | 150.011 | 1.32 | 9.00 | 26.91 | 46.55 | 29.95 | 43.50 | -13.55 |
| 3 | 167.824 | 1.35 | 9.52 | 26.82 | 43.12 | 27.17 | 43.50 | -16.33 |
| 4 | 210.048 | 1.46 | 10.73 | 26.66 | 38.21 | 23.74 | 43.50 | -19.76 |
| 5 | 290.017 | 1.86 | 13.44 | 26.43 | 33.66 | 22.53 | 46.00 | -23.47 |
| 6 | 752.743 | 3.07 | 21.73 | 27.35 | 29.96 | 27.41 | 46.00 | -18.59 |



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PC scanner mode Horizontal



Condition : FCC PART15 CLASS-B 3m 0042673 HORIZONTAL

Job No. : 3060IT Test mode : PC SCANNER

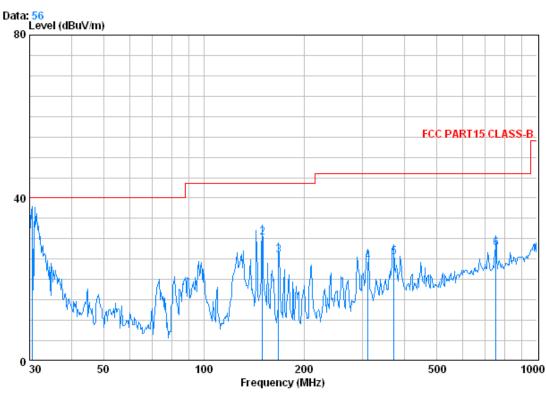
| | | Cablei | Antenna | Preamp | Read | | Limit | Over |
|---|---------|--------|---------|--------|-------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit |
| | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| | | | | | | | | |
| 1 | 31.071 | 0.60 | 14.68 | 27.35 | 29.76 | 17.68 | 40.00 | -22.32 |
| 2 | 150.011 | 1.32 | 9.00 | 26.91 | 39.71 | 23.12 | 43.50 | -20.38 |
| 3 | 180.017 | 1.37 | 9.90 | 26.77 | 41.49 | 25.99 | 43.50 | -17.51 |
| 4 | 210.048 | 1.46 | 10.73 | 26.66 | 43.76 | 29.28 | 43.50 | -14.22 |
| 5 | 309.998 | 1.93 | 14.29 | 26.48 | 42.49 | 32.22 | 46.00 | -13.78 |
| 6 | 372.005 | 2.12 | 15.94 | 26.95 | 43.77 | 34.88 | 46.00 | -11.12 |



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Vertical



Condition : FCC PART15 CLASS-B 3m 0042673 VERTICAL

Job No. : 3060IT Test mode : PC SCANNER

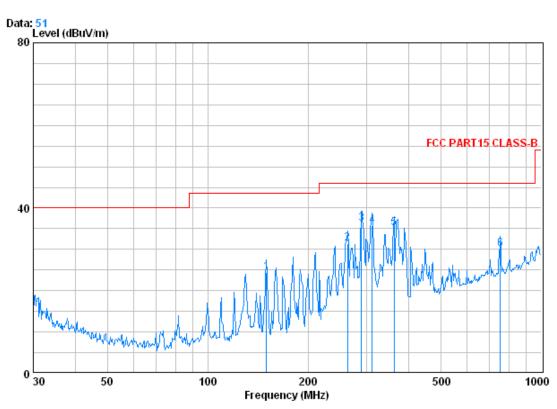
| | | Cable | intenna | Preamp | Read | | Limit | Over |
|---|---------|-------|---------|--------|-------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 30.638 | 0.60 | 15.06 | 27.35 | 44.54 | 32.84 | 40.00 | -7.16 |
| 2 | 150.011 | 1.32 | 9.00 | 26.91 | 46.96 | 30.37 | 43.50 | -13.13 |
| 3 | 167.824 | 1.35 | 9.52 | 26.82 | 41.97 | 26.02 | 43.50 | -17.48 |
| 4 | 311.087 | 1.94 | 14.29 | 26.48 | 34.73 | 24.47 | 46.00 | -21.53 |
| 5 | 372.005 | 2.12 | 15.94 | 26.95 | 34.45 | 25.56 | 46.00 | -20.44 |
| 6 | 752.743 | 3.07 | 21.73 | 27.35 | 30.30 | 27.76 | 46.00 | -18.24 |



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Read and Write SD card mode Horizontal



Condition : FCC PART15 CLASS-B 3m 0042673 HORIZONTAL

Job No. : 3060IT

Test mode : READ & WRITE SD CARD

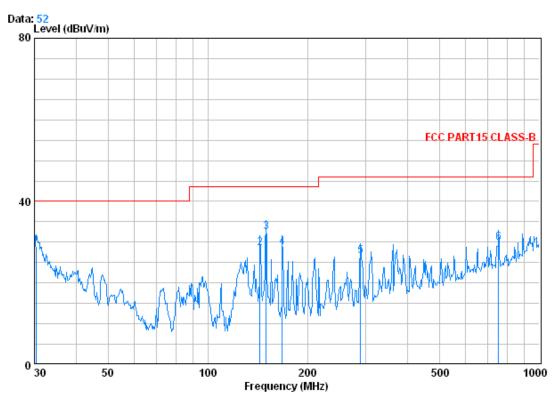
| | | CableAntenna | | Preamp Read | | | Limit | Over |
|---|---------|--------------|--------|-------------|-------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 150.011 | 1.32 | 9.00 | 26.91 | 40.96 | 24.37 | 43.50 | -19.13 |
| 2 | 262.896 | 1.74 | 12.57 | 26.50 | 43.63 | 31.43 | 46.00 | -14.57 |
| 3 | 289.002 | 1.85 | 13.40 | 26.43 | 47.35 | 36.17 | 46.00 | -9.83 |
| 4 | 311.087 | 1.94 | 14.29 | 26.48 | 45.97 | 35.71 | 46.00 | -10.29 |
| 5 | 361.714 | 2.09 | 15.68 | 26.87 | 44.12 | 35.03 | 46.00 | -10.97 |
| 6 | 752.743 | 3.07 | 21.73 | 27.35 | 32.64 | 30.09 | 46.00 | -15.91 |



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Vertical



Condition : FCC PART15 CLASS-B 3m 0042673 VERTICAL

Job No. : 3060IT

Test mode : READ & WRITE SD CARD

| | | | Cablei | lntenna | Preamp | Read | | Limit | Over |
|---|---|---------|--------|---------|--------|-------|--------|--------|--------|
| | | Freq | Loss | Factor | Factor | Level | Level | Line | Limit |
| | | | | | | | | | |
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| | | | | | | | | | |
| : | L | 30.317 | 0.60 | 15.23 | 27.36 | 40.43 | 28.91 | 40.00 | -11.09 |
| 2 | 2 | 143.830 | 1.31 | 8.43 | 26.94 | 45.81 | 28.61 | 43.50 | -14.89 |
| 3 | } | 150.011 | 1.32 | 9.00 | 26.91 | 49.00 | 32.40 | 43.50 | -11.10 |
| 4 | ł | 167.824 | 1.35 | 9.52 | 26.82 | 44.63 | 28.68 | 43.50 | -14.82 |
| 5 | 5 | 289.002 | 1.85 | 13.40 | 26.43 | 37.74 | 26.56 | 46.00 | -19.44 |
| 6 | 5 | 752.743 | 3.07 | 21.73 | 27.35 | 32.39 | 29.84 | 46.00 | -16.16 |
| | | | | | | | | | |