



**SGS-CSTC Standards
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Report No.: SHEMO10060067802
Page: 1 of 16

TEST REPORT

Application No.: SHEMO10060067802
Applicant: Hisense Communication Co., Ltd.

Equipment Under Test (EUT):

NOTE: The following sample(s) submitted was/were identified on behalf of the client as

EUT Name: CDMA&GSM dual mode phone
Model Name: EG59
Brand Name: Hisense
FCC ID: SARHISENSEEG59
Standards: CFR 47 Part 2: 2009,
CFR 47 Part 15: 2009,
ANSI C63.4: 2003

Date of Receipt: Jun 5, 2010
Date of Test: Jun 6, 2010 to Jun 10, 2010
Date of Issue: Jun 11, 2010

| | |
|----------------------|--------------|
| Test Result : | PASS* |
|----------------------|--------------|

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

Authorized Signature:

Tino Pan
E&E Section Manager
SGS-CSTC (Shanghai) Co., Ltd.

Bruce Zhan
E&E Project Engineer
SGS-CSTC (Shanghai) Co., Ltd

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2 Test Summary

| Test | Test Requirement | Test Method | Class / Severity | Result |
|------------------------------------|----------------------|------------------|------------------|--------|
| Radiated Emission | CFR 47 Part 15: 2009 | ANSI C63.4: 2003 | Class B | PASS |
| Conducted Emission 150KHz-30MHz | CFR 47 Part 15: 2009 | ANSI C63.4: 2003 | Class B | PASS |



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4 General Information

4.1 Client Information

Applicant: Hisense Communication Co., Ltd.
 Address of Applicant: Hisense Infor. Industrial Park, Economic Technology Dev. District, Qingdao, 266510, China.
 Manufacturer: Hisense Communication Co., Ltd.
 Address of Manufacturer: Hisense Infor. Industrial Park, Economic Technology Dev. District, Qingdao, 266510, China.

4.2 General Description of E.U.T.

EUT Name: CDMA&GSM dual mode phone
 Model No.: EG59
 Brand Name: Hisense
 Serial No.: Not supplied by the client

4.3 Details of E.U.T.

Power Supply: DC 3.7V, 10mA
 Charger: Manufacturer: Hisense
 Type: UCT24W5040A
 Input: 100V-240VAC, 50/60Hz, 0.15A
 Output: 5.0VDC, 400mA

4.4 Description of Support Units

| Name / Function | Model No. | Remark |
|-----------------|-----------|--------|
| IBM PC | T40 | N/A |

4.5 Standards Applicable for Testing

The customer requested EMC tests.

The standards used were CFR 47 Part 2: 2009, CFR 47 Part 15: 2009, ANSI C63.4: 2003.

Table 1 : Tests Carried Out Under CFR 47 Part 15: 2009 :

| Standard | | Status |
|-----------------------------|--------------------|--------|
| FCC Part 15 Subpart B: 2009 | Radiated Emission | √ |
| FCC Part 15 Subpart B: 2009 | Conducted Emission | √ |



- × Indicates that the test is not applicable
√ Indicates that the test is applicable

4.6 Abnormalities from Standard Conditions

None.

4.7 Test Location

All tests were performed at:
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
No.588 West Jindu Road, Songjiang District, Shanghai, China. 201612.
Tel: +86 21 6191 5666 Fax: +86 21 6191 5655

4.8 Test Facility

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

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. 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. Date of expiry: 2011-07-29.

- **FCC – Registration No.: 402683**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683, Expiry Date: 2012-03-17.

- **Industry Canada (IC) – IC Assigned Code: 8617A**

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A. Expiry Date: 2011-09-29.

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-3172 and C-3514 respectively. Date of Registration: 2009-11-30. Date of Expiry: 2012-03-17.



5 Equipment Used during Test

Radiated Emission

| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Cal. Date | Cal. Due date |
|------|-------------------|-----------------|-----------|------------|------------|---------------|
| 1 | EMI test receiver | Rohde & Schwarz | ESU40 | 100109 | 2010-06-04 | 2011-06-03 |
| 2 | Antenna | SCHWARZBECK | VULB9168 | 9168-313 | 2010-06-04 | 2011-06-03 |
| 3 | CONTROLLER | INNCO | CO200 | 474 | / | / |
| 4 | Antenna | SCHWARZBECK | BBHA9120D | 9120D-679 | 2010-06-04 | 2011-06-03 |
| 5 | Antenna | SCHWARZBECK | | 9170-373 | 2010-06-04 | 2011-06-03 |

Conducted Emission

| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Cal. Date | Cal. Due date |
|------|--------------------------------------|-----------------|-----------|------------|------------|---------------|
| 1 | EMI test receiver | Rohde & Schwarz | ESCS30 | 100086 | 2010-06-04 | 2011-06-03 |
| 2 | Line impedance stabilization network | SCHWARZBECK | NSLK8127 | 8127-490 | 2010-05-08 | 2011-05-07 |

General Equipment

| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Cal. Date | Cal. Due date |
|------|---------------------------|--------------------------------------|-----------|------------|------------|---------------|
| 1 | Atmosphere pressure meter | Shanghai ZhongXuan Electronic Co;Ltd | BY-2003P | / | 2009-10-15 | 2010-10-14 |
| 2 | Digital Multimeter | FLUKE | 17B | 10560713 | 2009-09-16 | 2010-09-15 |
| 3 | Thermo-Hygrometer | ZHICHEN | ZC1-2 | 01050033 | 2009-10-21 | 2010-10-20 |
| 4 | Digital illuminance meter | TES electrical electronic Corp. | TES-1330A | 050602219 | 2009-10-16 | 2010-10-15 |

6 Emission Test Results

6.1 Radiated Emissions

| | |
|-----------------------|---|
| Test Requirement: | CFR 47 Part 15: 2009 |
| Test Method: | ANSI C63.4:2003, CISPR 22: 2005+A1: 2005 |
| Test Date: | Jun 6, 2010 |
| Frequency Range: | 30MHz to 1GHz |
| Measurement Distance: | 3m |
| Class: | Class B |
| Power Supply: | AC 120V,60Hz |
| Detector: | Peak for pre-scan (120kHz resolution bandwidth) |
| Result: | PASS |

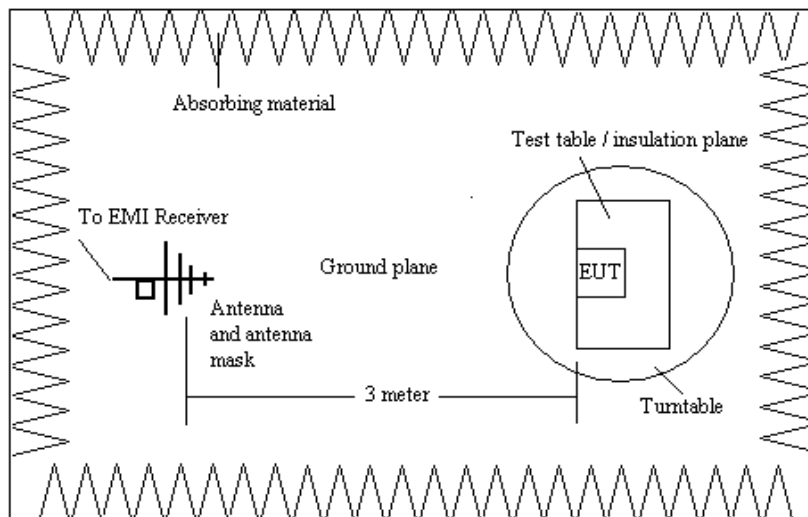
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0°C Humidity: 55 % RH Atmospheric Pressure: 1014 mbar

EUT Operation: Test in connected PC mode and charge mode.

6.1.2 Test setup



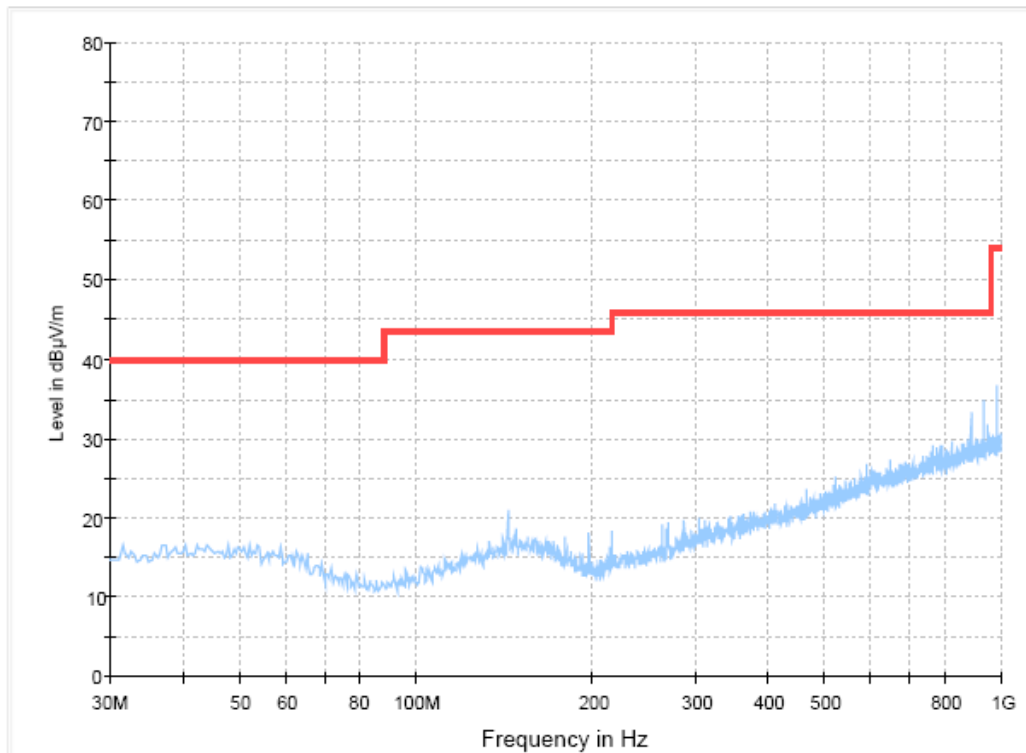


6.1.3 Measurement Data

Note: Red limit line - Quasi-peak limit;
Blue plots - Peak detector scan plots.

Charge mode

Horizontal:



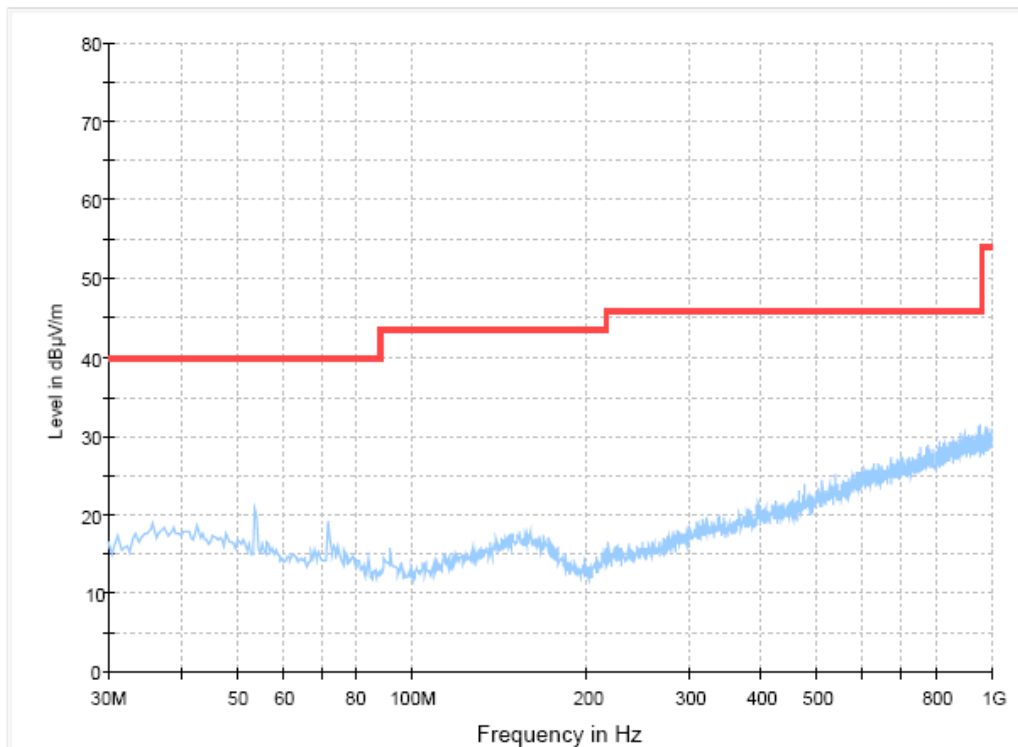
| Frequency (MHz) | Actual Level QP (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|--------------------|--------------------------------|-------------------|----------------|
| 30.00 | * | 40.0 | * |
| 50.00 | * | 40.0 | * |
| 100.00 | * | 43.5 | * |
| 200.00 | * | 43.5 | * |
| 500.00 | * | 46.0 | * |
| 1000.00 | * | 54.0 | * |

“*” means the emission level is 6dB lower than the relevant limit.



Charge mode

Vertical:



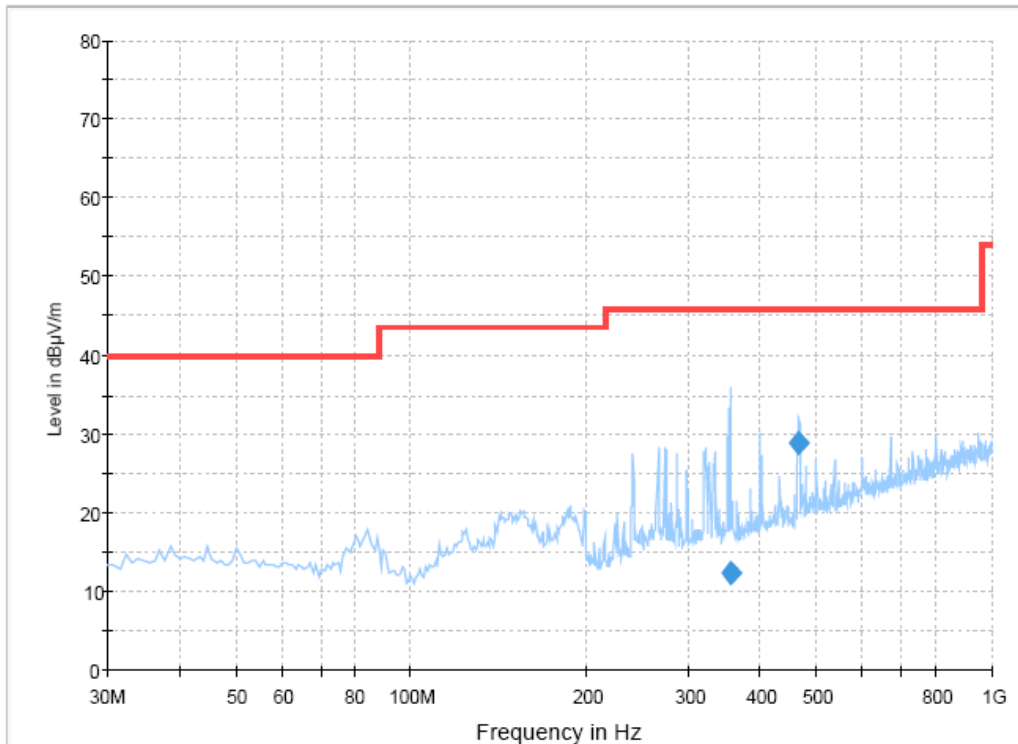
| Frequency (MHz) | Actual Level QP (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|--------------------|--------------------------------|-------------------|----------------|
| 30.00 | * | 40.0 | * |
| 50.00 | * | 40.0 | * |
| 100.00 | * | 43.5 | * |
| 200.00 | * | 43.5 | * |
| 500.00 | * | 46.0 | * |
| 1000.00 | * | 54.0 | * |

“*” means the emission level is 6dB lower than the relevant limit.



Connected PC mode

Horizontal:



Final Result 1

| Frequency (MHz) | QuasiPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Antenna height (cm) | Polarity | Turntable position (deg) | Corr. (dB) | Margin (dB) |
|-----------------|--------------------|-----------------|-----------------|---------------------|----------|--------------------------|------------|-------------|
| 354.817280 | 12.3 | 1000.000 | 120.000 | 100.0 | H | -12.0 | -6.3 | 33.7 |
| 466.186880 | 28.7 | 1000.000 | 120.000 | 100.0 | H | 105.0 | -3.9 | 17.3 |

(continuation of the "Final Result 1" table from column 9 ...)

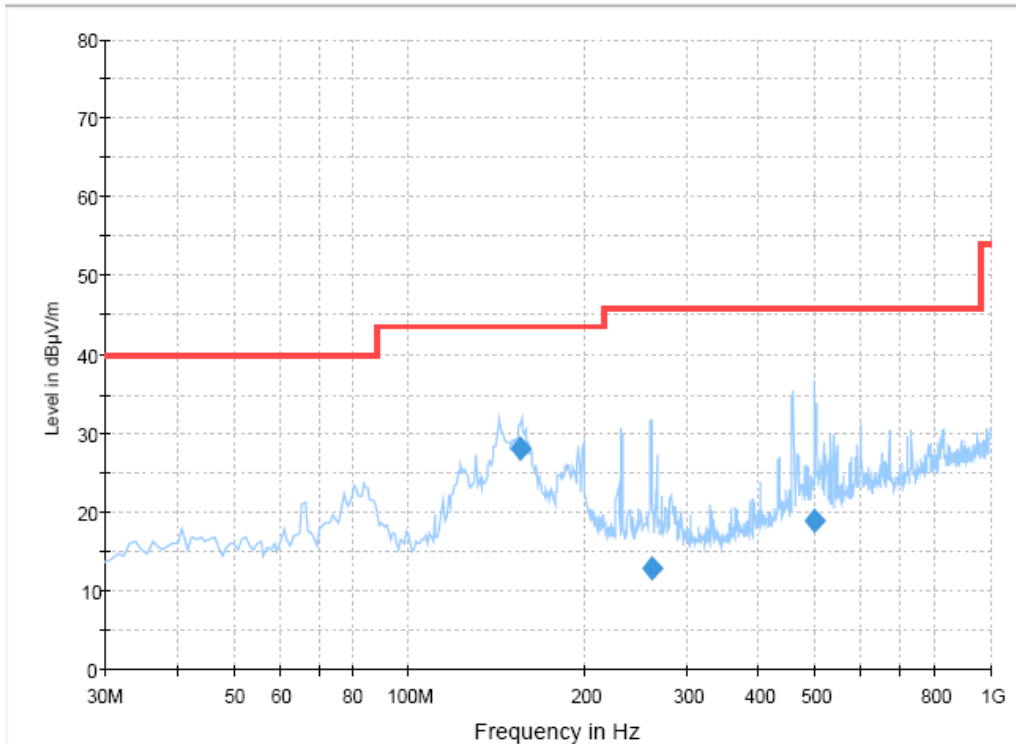
| Frequency (MHz) | Limit (dBµV/m) | Comment |
|-----------------|----------------|---------|
| 354.817280 | 46.0 | |
| 466.186880 | 46.0 | |

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Connected PC mode

Vertical:



Final Result 1

| Frequency (MHz) | QuasiPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Antenna height (cm) | Polarity | Turntable position (deg) | Corr. (dB) | Margin (dB) |
|-----------------|--------------------|-----------------|-----------------|---------------------|----------|--------------------------|------------|-------------|
| 156.012800 | 28.1 | 1000.000 | 120.000 | 100.0 | V | 158.0 | -8.0 | 15.4 |
| 261.954880 | 12.9 | 1000.000 | 120.000 | 100.0 | V | 306.0 | -9.2 | 33.1 |
| 499.647360 | 18.8 | 1000.000 | 120.000 | 100.0 | V | 216.0 | -3.1 | 27.2 |

(continuation of the "Final Result 1" table from column 9 ...)

| Frequency (MHz) | Limit (dBµV/m) | Comment |
|-----------------|----------------|---------|
| 156.012800 | 43.5 | |
| 261.954880 | 46.0 | |
| 499.647360 | 46.0 | |



6.2 Conducted Emissions, 150kHz to 30MHz

Test Requirement: CFR 47 Part 15: 2009 Subpart B
 Test Method: ANSI C63.4:2003
 Test Date: Jun 10, 2010
 Frequency Range: 150kHz to 30MHz
 Class: Class B
 Power Supply: AC 120V,60Hz

Limit:

| Frequency range MHz | Class B Limits dB (μV) | |
|------------------------|---------------------------|----------|
| | Quasi-peak | Average |
| 0.15 to 0.50 | 66 to 56 | 56 to 46 |
| 0.50 to 5 | 56 | 46 |
| 5 to 30 | 60 | 50 |

Result: **PASS**

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.0°C Humidity: 57% RH Atmospheric Pressure: 1012 mbar

EUT Operation: Test in connected PC mode and charge mode.

6.2.2 Test Result and Partial Measurement Data

PASS.

Note: Blue limit line - AV limit, Red limit line - Quasi-peak limit;

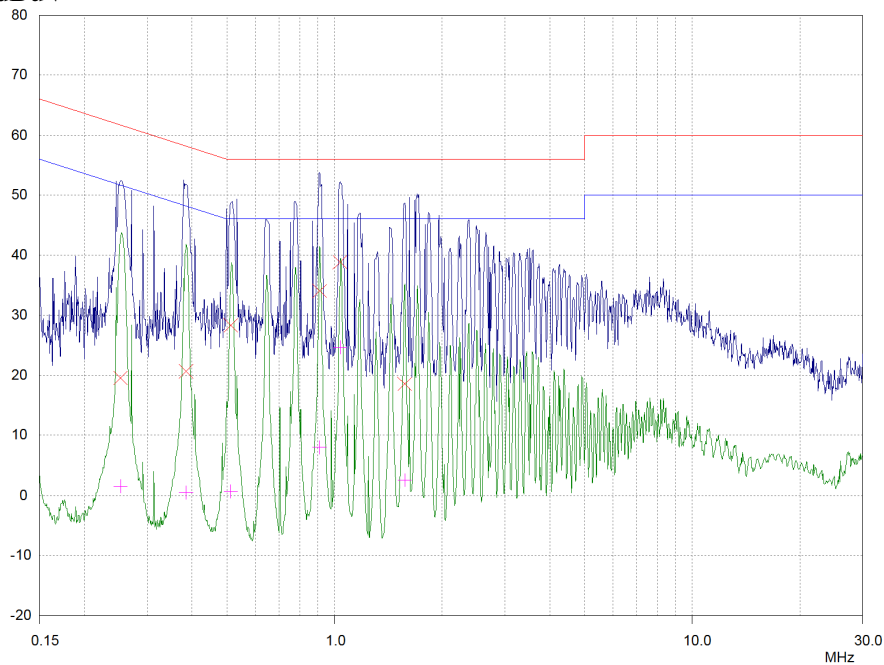
Blue plots - Peak detector scan plots, Green plots - AV detector scan plots.



Charge mode

L Line:

dBuV



| Frequency MHz | QP Level dBμV | QP Limit dBμV | QP Delta dB |
|------------------|------------------|------------------|----------------|
| 0.25204 | 19.54 | 61.69 | 42.15 |
| 0.38481 | 20.65 | 58.17 | 37.52 |
| 0.51293 | 28.32 | 56.00 | 27.68 |
| 0.90781 | 34.03 | 56.00 | 21.97 |
| 1.03563 | 38.85 | 56.00 | 17.15 |
| 1.5686 | 18.55 | 56.00 | 37.45 |

| Frequency MHz | AV Level dBμV | AV Limit dBμV | AV Delta dB |
|------------------|------------------|------------------|----------------|
| 0.25204 | 1.49 | 51.69 | 50.20 |
| 0.38481 | 0.47 | 48.17 | 47.70 |
| 0.51293 | 0.67 | 46.00 | 45.33 |
| 0.90781 | 8.01 | 46.00 | 37.99 |
| 1.03563 | 24.62 | 46.00 | 21.38 |
| 1.5686 | 2.53 | 46.00 | 43.47 |

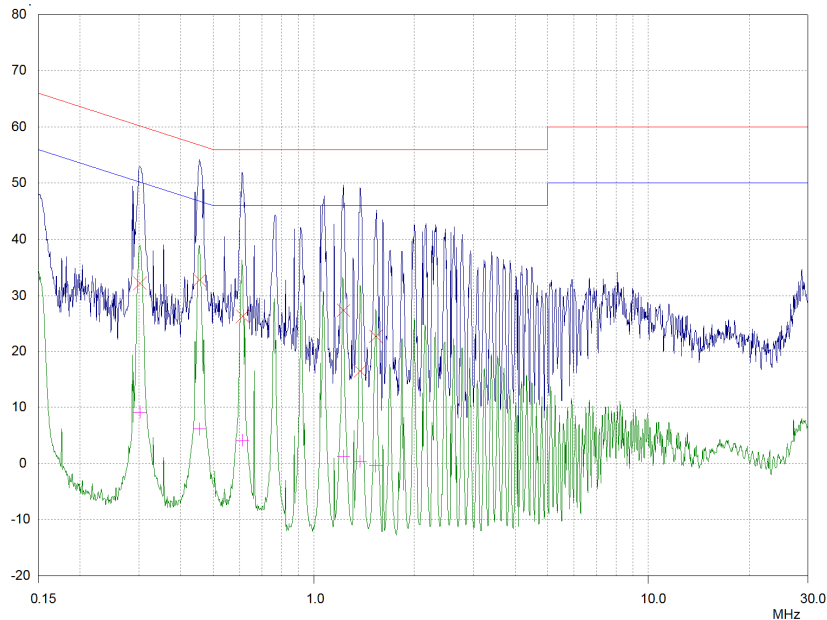
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Charge mode

N Line:

dBuV



| Frequency MHz | QP Level dBμV | QP Limit dBμV | QP Delta dB |
|------------------|------------------|------------------|----------------|
| 0.30164 | 32.23 | 60.20 | 27.97 |
| 0.45505 | 32.78 | 56.78 | 24.00 |
| 0.61144 | 26.33 | 56.00 | 29.67 |
| 1.22468 | 27.39 | 56.00 | 28.61 |
| 1.37499 | 16.38 | 56.00 | 39.62 |
| 1.53148 | 22.59 | 56.00 | 33.41 |

| Frequency MHz | AV Level dBμV | AV Limit dBμV | AV Delta dB |
|------------------|------------------|------------------|----------------|
| 0.30164 | 9.07 | 50.20 | 41.13 |
| 0.45505 | 6.09 | 46.78 | 40.69 |
| 0.61144 | 4.06 | 46.00 | 41.94 |
| 1.22468 | 1.16 | 46.00 | 44.84 |
| 1.37499 | 0.35 | 46.00 | 45.65 |
| 1.53148 | -0.49 | 46.00 | 46.49 |

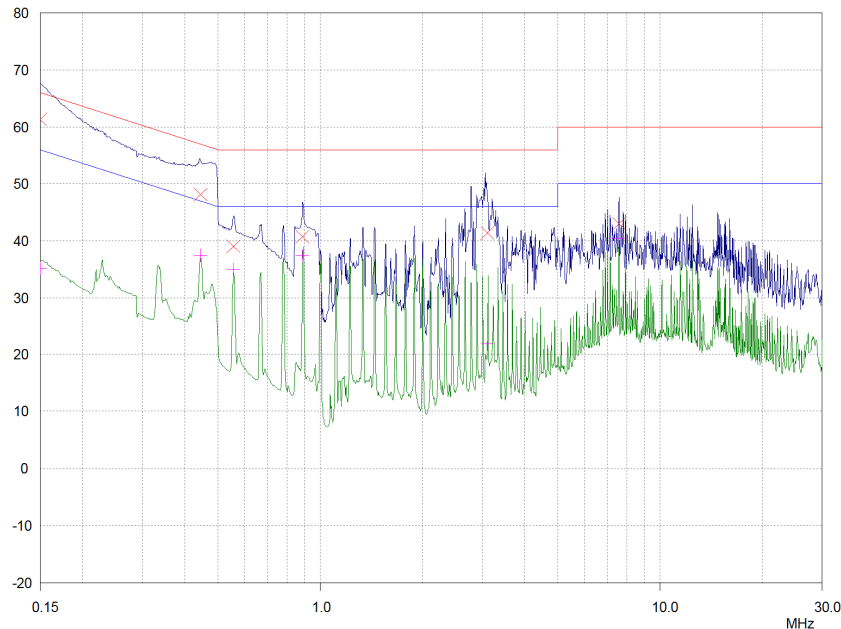
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Connected PC mode

L Line:

dBuV



| Frequency MHz | QP Level dBμV | QP Limit dBμV | QP Delta dB |
|------------------|------------------|------------------|----------------|
| 0.15 | 61.27 | 66.00 | 4.73 |
| 0.44428 | 48.12 | 56.98 | 8.86 |
| 0.55558 | 39.05 | 56.00 | 16.95 |
| 0.88632 | 40.75 | 56.00 | 15.25 |
| 3.10441 | 41.38 | 56.00 | 14.62 |
| 7.56131 | 43.05 | 60.00 | 16.95 |

| Frequency MHz | AV Level dBμV | AV Limit dBμV | AV Delta dB |
|------------------|------------------|------------------|----------------|
| 0.15 | 35.17 | 56.00 | 20.83 |
| 0.44428 | 37.48 | 46.98 | 9.50 |
| 0.55558 | 34.98 | 46.00 | 11.02 |
| 0.88632 | 37.43 | 46.00 | 8.57 |
| 3.10441 | 21.78 | 46.00 | 24.22 |
| 7.56131 | 40.48 | 50.00 | 9.52 |

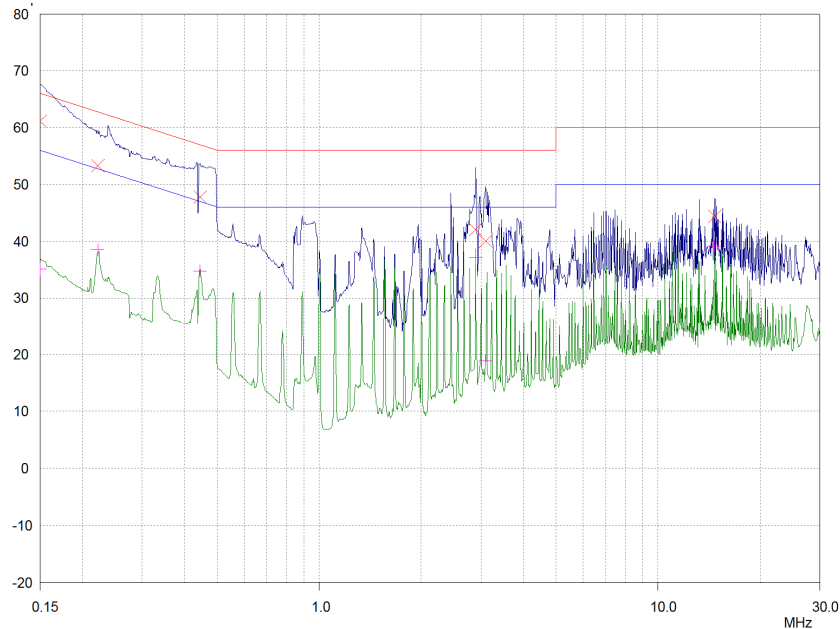
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Connected PC mode

N Line:

dBuV



| Frequency MHz | QP Level dB μ V | QP Limit dB μ V | QP Delta dB |
|------------------|------------------------|------------------------|----------------|
| 0.15 | 61.13 | 66.00 | 4.87 |
| 0.22181 | 53.27 | 62.75 | 9.48 |
| 0.44428 | 47.77 | 56.98 | 9.21 |
| 2.88916 | 42.05 | 56.00 | 13.95 |
| 3.09204 | 40.03 | 56.00 | 15.97 |
| 14.66876 | 44.40 | 60.00 | 15.60 |

| Frequency MHz | AV Level dB μ V | AV Limit dB μ V | AV Delta dB |
|------------------|------------------------|------------------------|----------------|
| 0.15 | 35.09 | 56.00 | 20.91 |
| 0.22181 | 38.55 | 52.75 | 14.20 |
| 0.44428 | 34.77 | 46.98 | 12.21 |
| 2.88916 | 37.15 | 46.00 | 8.85 |
| 3.09204 | 18.80 | 46.00 | 27.20 |
| 14.66876 | 39.13 | 50.00 | 10.87 |

The end of report