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Report No.: SHEM151000385603

Page: 1 of 19

1 Cover Page

FCC REPORT

| | |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application No.: | SHEM1510003856CR |
| Applicant: | Hangzhou Hikvision Digital Technology Co., Ltd. |
| FCC ID: | 2ADTD-K1TE |
| Equipment Under Test (EUT): NOTE: The following sample(s) submitted was/were identified on behalf of the client as | |
| Product Name: | Fingerprint Access Control Terminal |
| Model No.(EUT): | DS-K1T105E-C |
| Add Model No.: | DS-K1T105E, DS-K1T801E, DS-K1T802E, DS-K1T803E, DS-K1T804E, DS-K1T805E, DS-K1T806E, DS-K1T807E, DS-K1T808E, DS-K1T809E, DS-K1801E, DS-K1801EK, DS-K1802E, DS-K1802EK, DS-K1803E, DS-K1803EK, DS-K1804E, DS-K1804EK, DS-K1805E, DS-K1805EK, DS-K1806E, DS-K1806EK, DS-K1807E, DS-K1807EK, DS-K1808E, DS-K1808EK, DS-K1809E, DS-K1809EK, DS-K1T106E, DS-K1T106E-C, DS-K1T107E, DS-K1T107E-C, DS-K1T108E, DS-K1T108E-C, DS-K1T10XYZ-X, DS-K1T1XYZ-X, DS-K1TXYZ-X, DS-K1XYZABCD, DS-K1102E, DS-K1102EK, DS-K1102EM, DS-K1102EMK |
| Standards: | FCC PART 15 Subpart C: 2014 |
| Date of Receipt: | October 28, 2015 |
| Date of Test: | December 20, 2015 |
| Date of Issue: | January 14, 2016 |
| Test Result: | Pass* |

*In the configuration tested, the EUT detailed in this report complied with the standards specified above.



Parlam Zhan
E&E Section Manager
SGS-CSTC (Shanghai) Co., Ltd.

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.



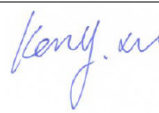
The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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2 Version

| Revision Record | | | | |
|-----------------|---------|------------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 00 | / | January 14, 2016 | / | Original |
| | | | | |
| | | | | |
| | | | | |

| | | | | |
|--------------------------|--|----------------------------------|--|------------------------------------------------------------------------------------------------|
| Authorized for issue by: | | | | |
| Engineer | | Eddy Zong _____ Print Name | |  _____ |
| Clerk | | Susie Liu _____ Print Name | |  _____ |
| Reviewer | | Keny Xu _____ Print Name | |  _____ |



3 Test Summary

| Test Item | Test Requirement | Test method | Result |
|-------------------------------------|---------------------------------------------|--------------------------------------------------|--------|
| Antenna Requirement | 47 CFR Part 15, Subpart C Section 15.203 | - | PASS |
| AC Power Line Conducted Emission | 47 CFR Part 15, Subpart C Section 15.207 | ANSI C63.10(2013) Section 6.2 | PASS |
| Radiated Emissions | 47 CFR Part 15, Subpart C Section 15.209 | ANSI C63.10(2013) Section 6.4&6.5&6.6&6.10 | PASS |
| 20dB Bandwidth | 47 CFR Part 15, Subpart C Section 15.215 | ANSI C63.10(2013) Section 6.9.2 | PASS |

Note: There are 43 models mentioned in this report, and they are the similar in electrical and electronic characters. Only the model DS-K1T105E-C was tested since their differences were the color, their naming and silk.



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5 General Information

5.1 Client Information

| | |
|--------------------------|-----------------------------------------------------------------------|
| Applicant: | Hangzhou Hikvision Digital Technology Co., Ltd. |
| Address of Applicant: | 700 Dongliu Road, Binjiang District, Hangzhou 310052, Zhejiang, China |
| Manufacturer: | Hangzhou Hikvision Digital Technology Co., Ltd. |
| Address of Manufacturer: | 700 Dongliu Road, Binjiang District, Hangzhou 310052, Zhejiang, China |
| Factory: | Hangzhou Hikvision Digital Technology Co., Ltd. |
| Address of Factory: | 700 Dongliu Road, Binjiang District, Hangzhou 310052, Zhejiang, China |

5.2 General Description of E.U.T.

| | | | |
|----------------------|------------------------------------------|---------------------------|-----------------|
| Product Description: | Fixed product with 125kHz RF ID function | | |
| Brand Name: | HIKVISION | | |
| Rated Input: | DC 12V 2A | | |
| Adapter: | Model No.: | KPL-040F | |
| | Rated Input: | AC 100V-240V 50/60Hz 1.7A | |
| | Rated Output: | DC 12V 3.33A | |
| | Cable length: | AC port: | 140 cm(3 wires) |
| | | DC port: | 120 cm |

5.3 Technical Specifications

| | |
|----------------------|-----------------------|
| Operation Frequency: | 125kHz |
| Modulation Type: | ASK |
| Antenna Type: | Integral loop antenna |

5.4 E.U.T Operation Mode

| Test Mode | Description of Test Mode |
|------------------|---------------------------------------------|
| Engineering mode | Keep EUT working in continuous transmitting |

5.5 Description of Support Units

The EUT has been tested independently.

5.6 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 5678

5.7 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: 2017-07-14.

- **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: 2017-09-16.

- **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-1. Expiry Date: 2017-06-18.

- **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-3868, C-4336, T-2221, G-830 respectively. Date of Expiry: 2017-11-16.

6 Equipments List

| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Cal. Date | Cal. Due date |
|------|-------------------------------------------|-------------------------------|-----------------------------|---------------|------------|---------------|
| 1 | EMI test receiver | Rohde & Schwarz | ESCS30 | 100086 | 2015-01-22 | 2016-01-21 |
| 2 | Line impedance stabilization network | SCHWARZBECK | NSLK8127 | 8127490 | 2015-01-22 | 2016-01-21 |
| 3 | Line impedance stabilization network | ETS | 3816/2 | 00034161 | 2015-01-22 | 2016-01-21 |
| 4 | Spectrum Analyzer | Rohde & Schwarz | FSP-30 | 2705121009 | 2015-01-22 | 2016-01-21 |
| 5 | EMI test receiver | Rohde & Schwarz | ESU40 | 100109 | 2015-02-13 | 2016-02-12 |
| 6 | Active Loop Antenna (9kHz to 30MHz) | Schwarzbeck - Mess-Elektronik | FMZB 1519 | 1519-034 | 2015-02-07 | 2016-02-06 |
| 7 | Broadband UHF-VHF ANTENNA (25MHz to 2GHz) | SCHWARZBECK | VULB9168 | 9168-313 | 2015-02-07 | 2016-02-06 |
| 8 | Ultra broadband antenna (25MHz to 3GHz) | Rohde & Schwarz | HL562 | 100227 | 2015-08-30 | 2016-08-29 |
| 9 | Horn Antenna (1GHz to 18GHz) | Rohde & Schwarz | HF906 | 100284 | 2015-02-07 | 2016-02-06 |
| 10 | Horn Antenna (1GHz to 18GHz) | SCHWARZBECK | BBHA9120D | 9120D-679 | 2015-02-07 | 2016-02-06 |
| 11 | Horn Antenna (14GHz to 40GHz) | SCHWARZBECK | BBHA 9170 | BBHA9170373 | 2015-02-13 | 2016-02-12 |
| 12 | Pre-amplifier (9KHz – 2GHz) | LNA6900 | TESEQ | 71033 | / | / |
| 13 | Pre-amplifier (1GHz – 26.5GHz) | Rohde & Schwarz | SCU-F0118-G40-BZ4-CSS(F) | 10001 | 2015-01-22 | 2016-01-21 |
| 14 | Pre-amplifier (14GHz – 40GHz) | Rohde & Schwarz | SCU-F1840-G35-BZ3-CSS(F) | 10001 | 2015-01-22 | 2016-01-21 |
| 15 | Tunable Notch Filter | Wainwright instruments GmbH | WRCT800.0/880.0-0.2/40-5SSK | 9170397 | / | / |
| 16 | High pass Filter | FSCW | HP 12/2800-5AA2 | 19A45-02 | / | / |
| 17 | High-low temperature cabinet | Suzhou Zhihe | TL-40 | 50110050 | 2015-09-11 | 2016-09-10 |
| 18 | AC power stabilizer | WOCEN | 6100 | 51122 | 2016-01-02 | 2017-01-01 |
| 19 | DC power | QJE | QJ30003SII | 611145 | 2016-01-02 | 2017-01-01 |
| 20 | Signal Generator (Interferer) | Agilent | SMR40 | 100555 | 2015-08-13 | 2016-08-12 |
| 21 | Signal Generator (Blocker) | Rohde & Schwarz | SMJ100A | 02.20.360.142 | 2015-01-22 | 2016-01-21 |
| 22 | Splitter | Anritsu | MA1612A | M12265 | / | / |
| 23 | Coupler | e-meca | 803-S-1 | 900-M01 | / | / |

7 Test results and Measurement Data

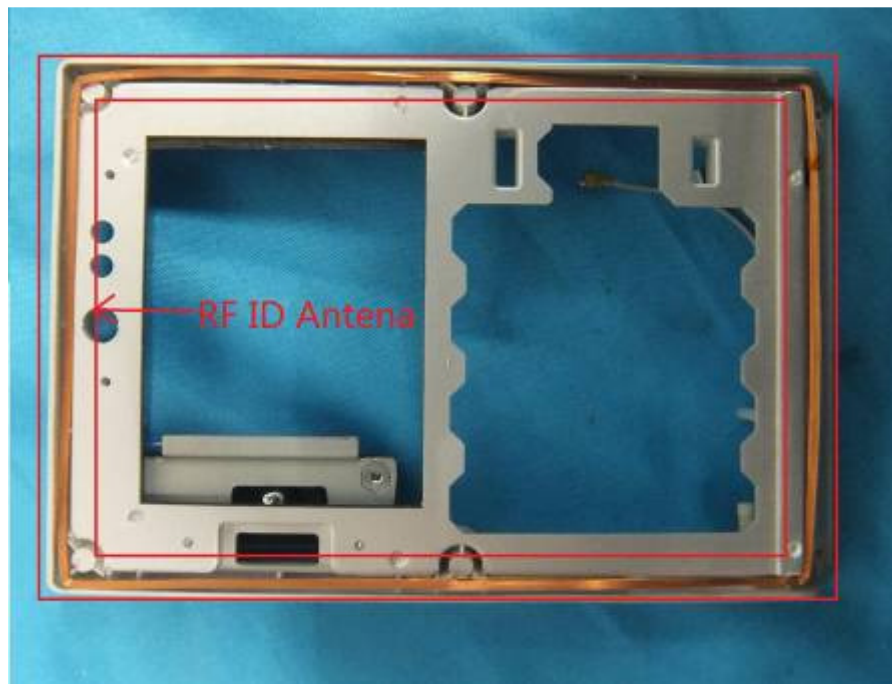
7.1 Antenna Requirement

15.203 Requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated loop antenna and no consideration of replacement.

Antenna Configuration:



7.2 Conducted Emissions

Test Frequency Range: 150kHz to 30MHz

Limit:

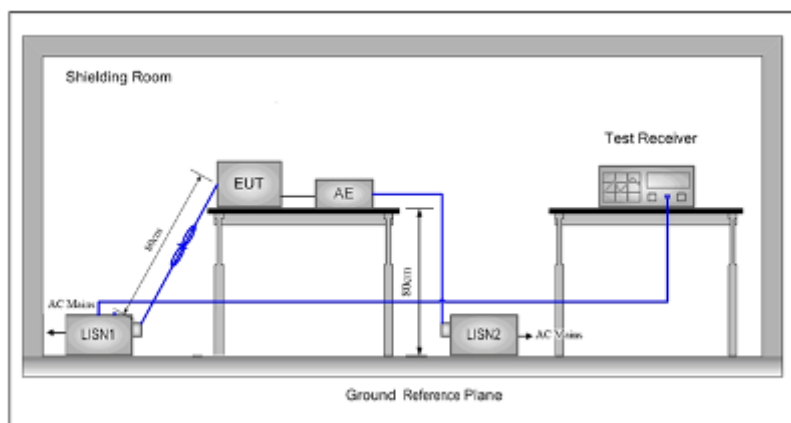
| Frequency range (MHz) | Limit (dBuV) | |
|-----------------------|--------------|-----------|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

* Decreases with the logarithm of the frequency.

Test Procedure:

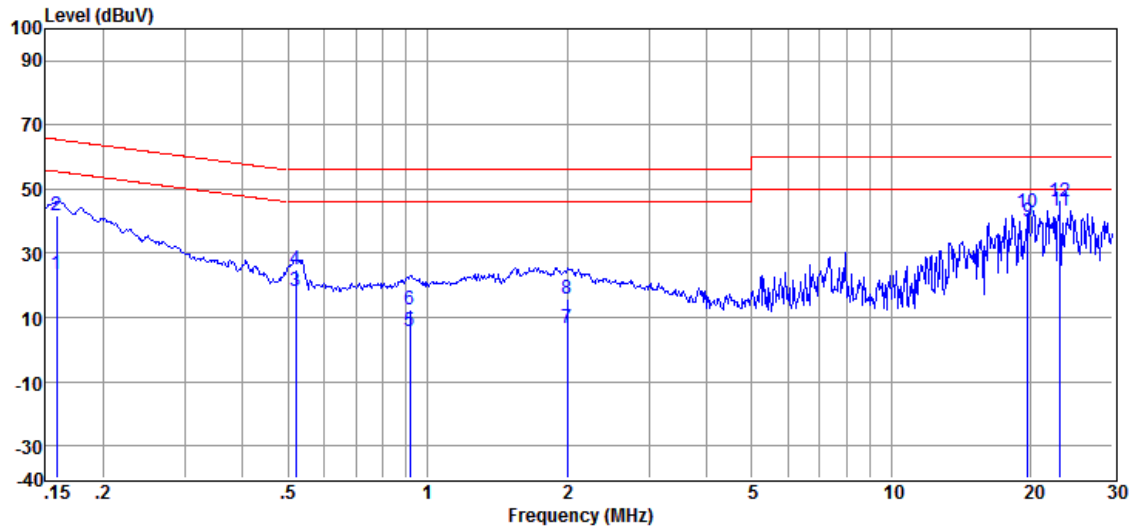
- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Test Setup:



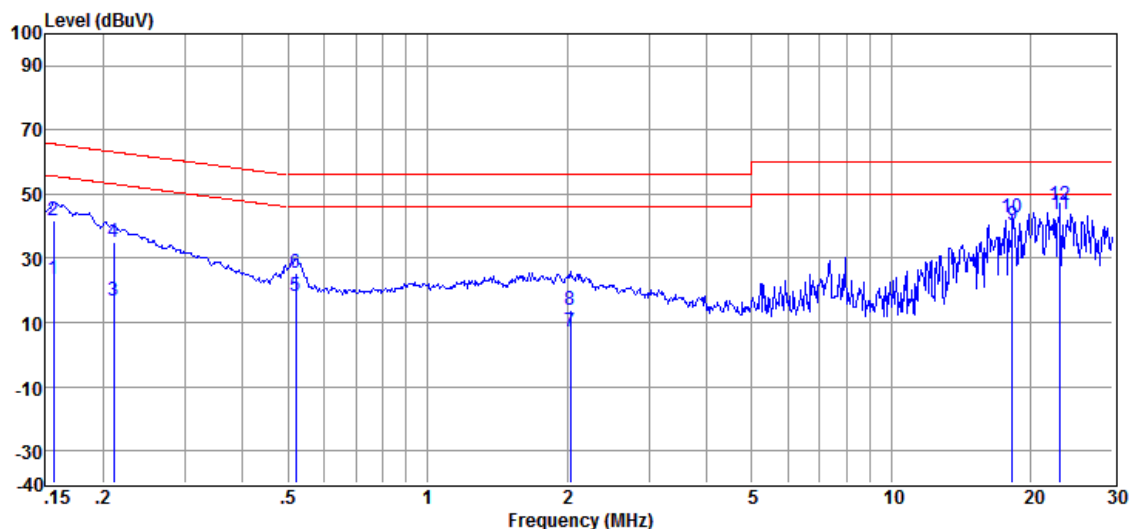
Test Results: Pass

Test Port: AC Live Line



| Item | Freq. | Read Level | LISN Factor | Cable Loss | Level | Limit Line | Over Limit | Detector |
|--------|--------|------------|-------------|------------|--------|------------|------------|----------|
| (Mark) | (MHz) | (dBμV) | (dB) | (dB) | (dBμV) | (dBμV) | (dB) | |
| 1 | 0.159 | 13.41 | 0.32 | 9.86 | 23.59 | 55.52 | -31.93 | Average |
| 2 | 0.159 | 31.63 | 0.32 | 9.86 | 41.81 | 65.52 | -23.71 | QP |
| 3 | 0.521 | 8.00 | 0.25 | 9.86 | 18.11 | 46.00 | -27.89 | Average |
| 4 | 0.521 | 14.64 | 0.25 | 9.86 | 24.75 | 56.00 | -31.25 | QP |
| 5 | 0.918 | -4.51 | 0.18 | 9.87 | 5.54 | 46.00 | -40.46 | Average |
| 6 | 0.918 | 2.42 | 0.18 | 9.87 | 12.47 | 56.00 | -43.53 | QP |
| 7 | 2.001 | -3.46 | 0.36 | 9.87 | 6.77 | 46.00 | -39.23 | Average |
| 8 | 2.001 | 5.81 | 0.36 | 9.87 | 16.04 | 56.00 | -39.96 | QP |
| 9 | 19.709 | 29.46 | 0.41 | 9.96 | 39.83 | 50.00 | -10.17 | Average |
| 10 | 19.709 | 32.48 | 0.41 | 9.96 | 42.85 | 60.00 | -17.15 | QP |
| 11 | 23.129 | 32.70 | 0.41 | 9.97 | 43.08 | 50.00 | -6.92 | Average |
| 12 | 23.129 | 35.77 | 0.41 | 9.97 | 46.15 | 60.00 | -13.85 | QP |

Test Port: AC Neutral Line



| Item | Freq. | Read Level | LISN Factor | Cable Loss | Level | Limit Line | Over Limit | Detector |
|--------|--------|------------|-------------|------------|--------|------------|------------|----------|
| (Mark) | (MHz) | (dBμV) | (dB) | (dB) | (dBμV) | (dBμV) | (dB) | |
| 1 | 0.156 | 13.38 | 0.33 | 9.86 | 23.57 | 55.65 | -32.08 | Average |
| 2 | 0.156 | 31.81 | 0.33 | 9.86 | 42.00 | 65.65 | -23.65 | QP |
| 3 | 0.211 | 6.73 | 0.29 | 9.86 | 16.88 | 53.18 | -36.30 | Average |
| 4 | 0.211 | 24.72 | 0.29 | 9.86 | 34.87 | 63.18 | -28.31 | QP |
| 5 | 0.521 | 8.04 | 0.29 | 9.86 | 18.19 | 46.00 | -27.81 | Average |
| 6 | 0.521 | 15.11 | 0.29 | 9.86 | 25.26 | 56.00 | -30.74 | QP |
| 7 | 2.033 | -3.82 | 0.99 | 9.87 | 7.04 | 46.00 | -38.96 | Average |
| 8 | 2.033 | 3.08 | 0.99 | 9.87 | 13.94 | 56.00 | -42.06 | QP |
| 9 | 18.243 | 29.92 | 0.43 | 9.95 | 40.30 | 50.00 | -9.70 | Average |
| 10 | 18.243 | 32.47 | 0.43 | 9.95 | 42.85 | 60.00 | -17.15 | QP |
| 11 | 23.127 | 33.17 | 0.46 | 9.97 | 43.60 | 50.00 | -6.40 | Average |
| 12 | 23.127 | 36.15 | 0.46 | 9.97 | 46.58 | 60.00 | -13.42 | QP |

Remark: Level = Read Level + LISN/ISN Factor + Cable Loss.

7.3 Radiated Emissions

Test frequency range: 9KHz – 1GHz

Test Site: Measurement Distance: 3m for above 30MHz (Semi-Anechoic Chamber)
10m for below 30MHz (Semi-Anechoic Chamber)

Receiver Setup:

| Frequency (MHz) | RBW | VBW | Detector |
|-----------------|---------|--------|------------|
| 0.009-0.015 | 200Hz | 1KHz | Quasi-peak |
| 0.015-30 | 9kHz | 30KHz | Quasi-peak |
| 30-1000 | 120 kHz | 300KHz | Quasi-peak |

Note: The emission limits shown in the above table are based on measurement instrumentation employing a CISPR quasi-peak detector. For the frequency bands 9~90 kHz, 110~490 kHz and above 1000 MHz, the radiated emission limits are based on measurements employing an average detector.

Limit:

| Frequency (MHz) | Field strength (μV/m) | Measurement distance (m) | Limit @3m (dBμV/m) |
|-----------------|-----------------------|--------------------------|---------------------|
| 0.009-0.490 | 2400/F(kHz) | 300 | 128.5 ~ 93.8 |
| 0.490-1.705 | 24000/F(kHz) | 30 | 73.8 ~63.0 |
| 1.705-30 | 30 | 30 | 69.5 |
| 30-88 | 100 | 3 | 40.0 |
| 88-216 | 150 | 3 | 43.5 |
| 216-960 | 200 | 3 | 46.0 |
| 960-1000 | 500 | 3 | 54.0 |

NOTE:

(1) For test distance other than what is specified, but fulfilling the requirements of section 15.31(f) (2) the field strength is calculated by adding additionally an extrapolation factor of 40dB/decade (inverse linear distance for field strength measurements).

So the Distance Extrapolation Factor in dB is $40 \cdot \log(D_{TEST} / D_{SPEC})$
where D_{TEST} = Test Distance and D_{SPEC} = Specified Distance.

Field strength limit (dBμV/m)@test distance= Field strength limit (dBμV/m)@specified distance -Distance Extrapolation Factor

(2) The lower limit shall apply at the transition frequencies.

Test Procedure:

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set fixed away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1

- meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
 - If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
 - The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.

Test Setup:

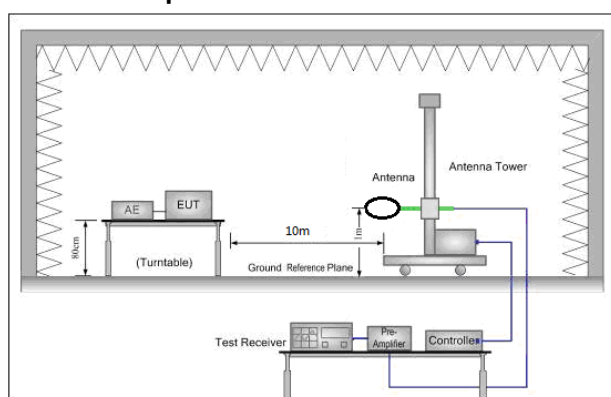


Figure 1. Below 30MHz

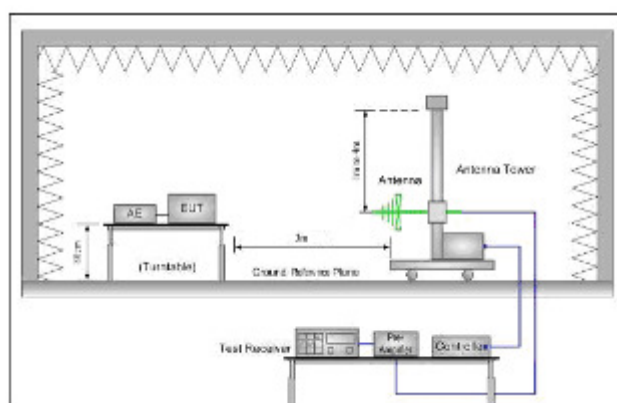


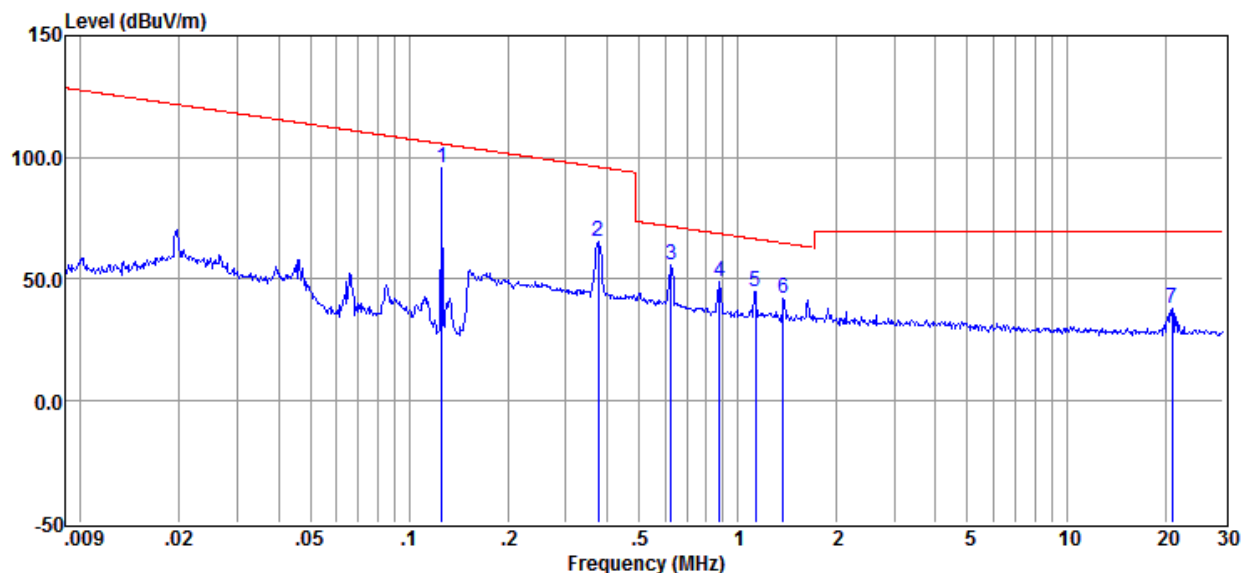
Figure 2. 30MHz to 1GHz

Test Results:

Pass

Test Data:

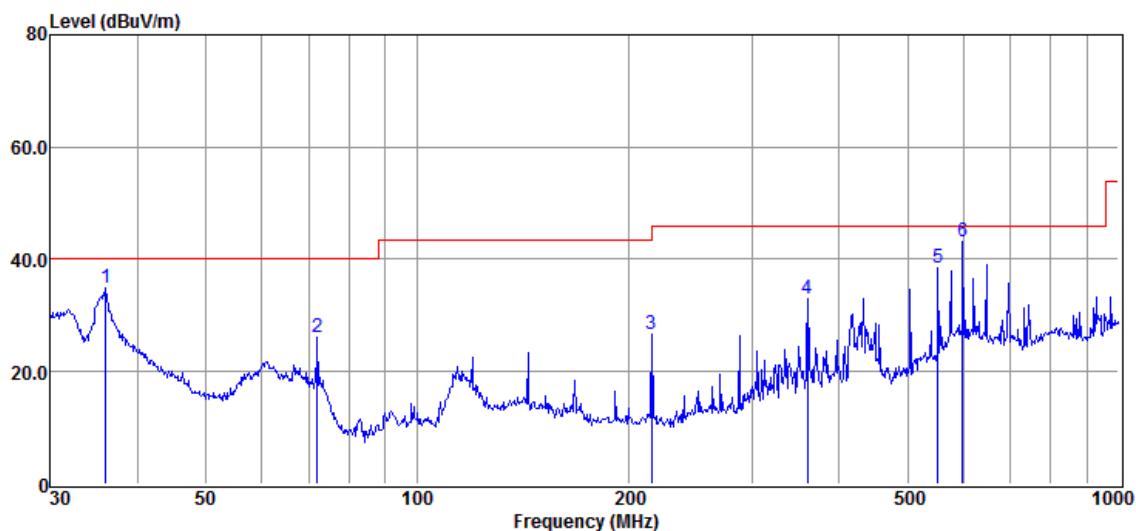
9kHz-30MHz:



| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dBμA/μVm) | Cable Loss (dBμA/m) | Level (dBuA/m) | Limit (dB) | Over Limit (dB) | Polarity |
|-----------------|-------------------|---------------------------|---------------------|----------------|------------|-----------------|----------|
| 0.125 | 75.94 | 19.91 | 0.10 | 95.95 | 105.61 | -9.66 | X |
| 0.38 | 45.63 | 19.80 | 0.10 | 55.92 | 71.68 | -15.76 | X |
| 0.63 | 36.19 | 19.63 | 0.10 | 49.21 | 68.72 | -19.51 | X |
| 0.88 | 29.72 | 19.39 | 0.10 | 44.87 | 66.55 | -21.68 | X |
| 1.13 | 25.45 | 19.32 | 0.10 | 42.05 | 64.86 | -22.81 | X |
| 1.38 | 22.60 | 19.35 | 0.10 | 38.12 | 69.50 | -31.38 | X |
| 21.00 | 18.55 | 19.13 | 0.10 | 55.92 | 71.68 | -15.76 | X |

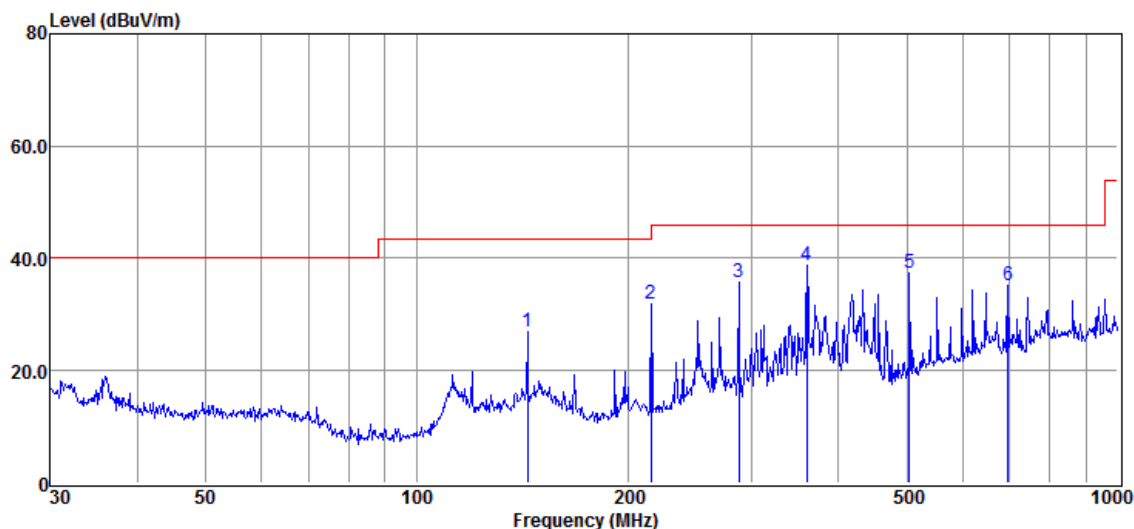
30MHz-1GHz:

Vertical



| Item | Freq. | Read Level | Antenna Factor | Preamplifier Factor | Cable Loss | Result Level | Limit Line | Over Limit | Detector |
|--------|--------|------------|----------------|---------------------|------------|--------------|------------|------------|----------|
| (Mark) | (MHz) | (dBμV) | (dB/m) | (dB) | (dB) | (dBμV/m) | (dBμV/m) | (dB) | |
| 1 | 36.00 | 46.37 | 12.70 | 24.60 | 0.58 | 35.05 | 40.00 | -4.95 | QP |
| 2 | 72.08 | 38.67 | 11.08 | 24.60 | 0.88 | 26.03 | 40.00 | -13.97 | QP |
| 3 | 216.02 | 39.30 | 10.14 | 24.50 | 1.72 | 26.66 | 46.00 | -19.34 | QP |
| 4 | 360.45 | 42.35 | 12.73 | 24.34 | 2.29 | 33.03 | 46.00 | -12.97 | QP |
| 5 | 552.88 | 40.42 | 19.34 | 24.15 | 2.89 | 38.50 | 46.00 | -7.50 | QP |
| 6 | 599.32 | 44.11 | 20.24 | 24.12 | 3.04 | 43.27 | 46.00 | -2.73 | QP |

Horizontal



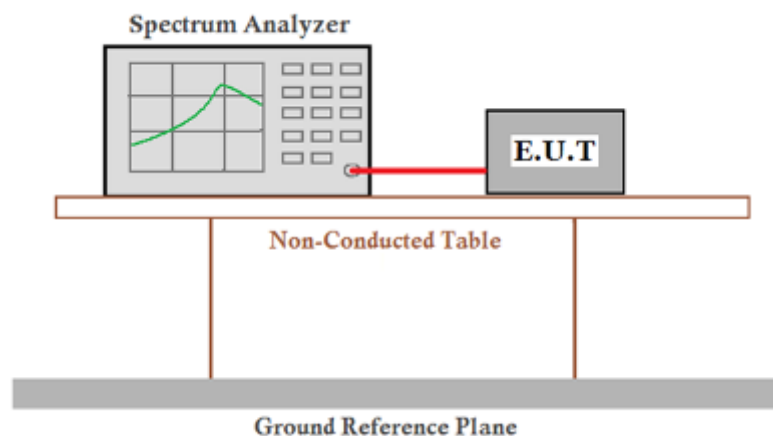
| Item | Freq. | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Result Level | Limit Line | Over Limit | Detector |
|--------|--------|------------|----------------|---------------|------------|--------------|------------|------------|----------|
| (Mark) | (MHz) | (dBμV) | (dB/m) | (dB) | (dB) | (dBμV/m) | (dBμV/m) | (dB) | |
| 1 | 143.83 | 37.58 | 12.49 | 24.52 | 1.34 | 26.89 | 43.50 | -16.61 | QP |
| 2 | 216.02 | 44.54 | 10.14 | 24.50 | 1.72 | 31.90 | 46.00 | -14.10 | QP |
| 3 | 287.99 | 45.63 | 12.44 | 24.43 | 2.02 | 35.66 | 46.00 | -10.34 | QP |
| 4 | 360.45 | 48.22 | 12.73 | 24.34 | 2.29 | 38.90 | 46.00 | -7.10 | QP |
| 5 | 504.71 | 41.55 | 17.32 | 24.19 | 2.79 | 37.47 | 46.00 | -8.53 | QP |
| 6 | 696.86 | 35.17 | 20.71 | 24.05 | 3.35 | 35.18 | 46.00 | -10.82 | QP |

Remark: The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

7.4 20dB Bandwidth

Test Setup:



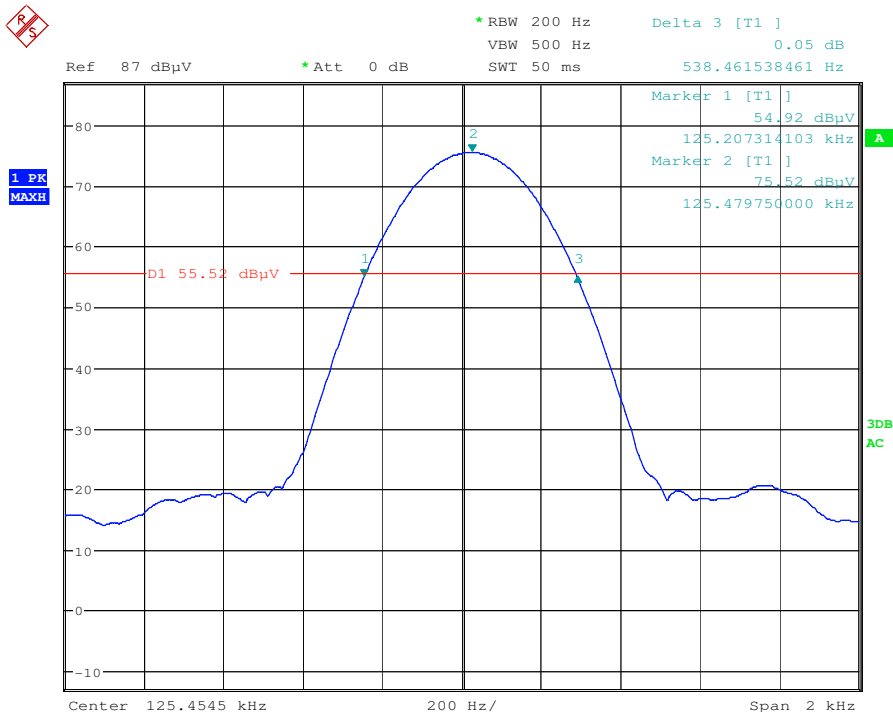
Requirements: Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §15.217 through §15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the 20 dB bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

Test Result: Pass

Measurement Data:

| 20dB bandwidth (kHz) | Result |
|----------------------|--------|
| 0.538 | Pass |

Test plot as follows:





8 Test Setup Photographs

Refer to the < D DS-KIT105E-C_Test Setup Photos-FCC >

9 EUT Constructional Details

Refer to the < DS-KIT105E-C_External Photos > & < DS-KIT105E-C_Internal Photos >.

--End of the Report--