

Report No.: SZEM200700601701

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TEST REPORT

Application No.: SZEM2007006017CR **Applicant:** Navico Auckland Ltd.

Address of Applicant: 44 Arrenway Drive, Rosedale, Auckland 0632, New Zealand

Manufacturer: Navico Auckland Ltd.

Address of Manufacturer: 44 Arrenway Drive, Rosedale, Auckland 0632, New Zealand

Factory: Shenzhen Fastrain Technology Co., Ltd.

Address of Factory: No.3 Baolong 4th Rd., Baolong Industrial Area, Longgang District,

Shenzhen, China

Equipment Under Test (EUT):

EUT Name: MARINE BLACK BOX DSC/AIS VHF RADIO SYSTEM

Model No.: NRS-1, NRS-2 .

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

Trade mark: NAVICO

Standard(s): EN 60945:2002

IEC 60945:2002

Date of Receipt: 2020-07-29

Date of Test: 2020-07-29 to 2020-09-18

Date of Issue: 2020-09-19

Test Result: Pass*

The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EU Declaration of Conformity and compliance with all relevant EU Directives.

Keny Xu EMC Laboratory Manager

Ceny. Ku



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



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| | Revision Record | | | |
|---------|-----------------|------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2020-09-19 | | Original |
| | | | | |
| | | | | |

| Authorized for issue by: | | |
|--------------------------|-----------------------------|---|
| | Roberti | |
| | Edison Li /Project Engineer | _ |
| | EvicFu | |
| | Eric Fu /Reviewer | _ |



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2 Test Summary

| EN 60945:2002/IEC 60945:2002 Section 9, Electromagnetic Emission | | | | | |
|--|----------------|---------------|-----------------------|--------|--|
| Item | Standard | Method | Requirement | Result | |
| Conducted Emissions | EN 60945:2002 | | | | |
| at DC Power Input Port (150kHz-30MHz) | IEC 60945:2002 | EN 60945:2002 | EN 60945 clause 9.2.3 | Pass | |
| | Section 9.2 | | | | |
| D : | EN 60945:2002 | | | | |
| Radiated Emissions (Below 1GHz) | IEC 60945:2002 | EN 60945:2002 | EN 60945 clause 9.3.3 | Pass | |
| (Below TOTIZ) | Section 9.3 | | | | |
| | EN 60945:2002 | | | | |
| Radiated Emissions (Above 1GHz) | IEC 60945:2002 | EN 60945:2002 | EN 60945 clause 9.3.3 | Pass | |
| (7.0000 10112) | Section 9.3 | | | | |

| | EN 60945:2002/IEC 60945:2002 Section 10, Immunity to electromagnetic environment | | | | |
|--|--|---------------------------------------|--|--------|--|
| Item | Standard | Method | Requirement | Result | |
| Electrostatic Discharge | EN 60945:2002 IEC 60945:2002 Section 10.9 | EN 61000-4-2:2009 | 6kV Contact Discharge 8kV Air Discharge | Pass | |
| Radiated Immunity (80MHz-2.7GHz) | EN 60945:2002 IEC 60945:2002 Section 10.4 | EN 61000-4-3:2006 +A1:2008+A2:2010 | 10V/m, 80%, 400Hz Amp. Mod. | Pass | |
| Electrical Fast Transients/Burst at DC Power Port | EN 60945:2002 IEC 60945:2002 Section 10.5 | EN 61000-4-4:2012 | 1kV 5/50ns Tr/Td 5kHz Repetition Frequency | Pass | |
| Conducted Immunity at DC Power port (150kHz-80MHz) | EN 60945:2002 IEC 60945:2002 Section 10.3 | EN 61000-4-6:2014 | 3Vrms (emf),80%,400Hz Amp. Mod. For 150KHz- 80MHz 10Vrms (emf),80%,400Hz Amp. Mod. For 2MHz, 3MHz, 4MHz, 6.2MHz, 8.2MHz, 12.2MHz, 16.5MHz, 18.8MHz, 22MHz, 25MHz | Pass | |
| Power Supply Failure | EN 60945:2002 IEC 60945:2002 Section 10.8 | EN 61000-4-11:2004 +A1:2017 | The EUT shall be subjected to three breaks in power supply of duration 60 s each. | Pass | |



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| EN 60945:2002/IEC 60945:2002 Section 11, Special purpose tests | | | | |
|--|---|-------------------------------------|--|--------|
| Item | Standard | Method | Requirement | Result |
| Compass Safe Distance | EN 60945:2002 IEC 60945:2002 Section 11.2 | EN 61000-4-8:2010 & ISO 694:2001 | The greatest distance obtained under all these conditions is the safe distance. Distances are to be rounded up to the nearest 50 mm or 100 mm. | Pass |

| EN 60945:2002/IEC 60945:2002 Section 12, Safety precautions | | | | |
|---|---|---|--|--------|
| Item | Standard | Method | Requirement | Result |
| Protection against accidental access to dangerous voltages | EN 60945:2002 IEC 60945:2002 Section 12.1 | IEC 60529:1989+AMD2:20 13+COR1:2019 | Adequate clearance shall be found between the access probe and the hazardous parts. For the low voltage test, the lamp shall not light. For the high voltage test, the EUT shall be capable of withstanding the dielectric test. | N/A |

Remark:

Model No.: NRS-1, NRS-2

The model and NRS-1 NRS-2 was tested fully, since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, with only differences are the trade name, model no. and AIS board(NRS2 has AIS board inside the main unit and while NRS-1 not).



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4 General Information

4.1 Details of E.U.T.

| Power supply: | 12 VDC battery system |
|----------------------------------|--|
| Sample Type: | Mobile device |
| Internal Source: | More than 108MHz |
| Transmitter Frequency Range: | VHF:156.025MHz-157.425MHz |
| | 802.11b/g/n HT20: 2412MHz-2472MHz |
| Receiver Frequency Range: | 156.05MHz-163.275MHz |
| AIS Transmitter Frequency Range: | 161.975MHz(CH87), 162.025MHz(CH88) |
| DSC Transmitter Frequency Range: | 156.525MHz(CH70) |
| GNSS Receiver Frequency Range: | 1559MHz-1610MHz(GLONASS:G1, GPS:L1) |
| Modulation Type: | VHF:FM for Analog; |
| | DSC: FSK; |
| | AIS: GMSK; |
| | GNSS: BPSK; |
| | 802.11b: DSSS (CCK, DQPSK, DBPSK) |
| | 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) |
| | 802.11n(HT20): OFDM (BPSK, QPSK, 16QAM, 64QAM) |
| Frequency Spacing: | VHF: 25KHz |
| | 802.11b/g/n HT20: 5MHz |
| Channel Numbers: | 802.11b/g/n HT20: 13 Channels |
| Emission Type: | 16K0G3E for VHF; |
| | 16K0G2B for DSC; |
| Rated Output Power: | 25W/1W for VHF/DSC; |
| | 2W for AIS; |
| VHF/DSC Antenna Connectors: | SO-239(50ohm, External Antenna) |
| AIS Antenna Connectors: | SO-239(50ohm, External Antenna) |
| VHF/DSC Antenna Gain: | 6dBi |
| AIS Antenna Gain: | 6dBi |
| GNSS Antenna Connector: | SMA for External antenna; |
| GNSS Antenna Gain: | 1.5dBi |
| WiFi Antenna Type: | External |
| WiFi Antenna Gain: | 5.3dBi |



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4.2 Cable

| Cable | Length | Shielding | Core |
|----------|-------------------|------------|----------|
| DC cable | longer than 300cm | Unshielded | Non-Core |

4.3 Description of Support Units

| Description | Manufacturer/ Trade mark | Model No. | Serial No. |
|--------------------|-----------------------------|-----------|-----------------|
| DC power | ZHAOXIN | RXN-305D | REF. No.SEA2700 |
| Coaxial Attenuator | Provided by client | TS4 | HYT168793 |
| Cell Site Test Set | HP | 8921A | 3633A04615 |
| Audio Analyzer | Rohde & Schwarz | UPV | SEM008-03 |
| Wired Handset | SIMRAD | HS100 | / |
| Wired Speaker | / | SP100 | / |
| Wired Handset | B&G | H100 | / |
| Wired Speaker | / | SP100 | / |

4.4 Measurement Uncertainty

| Test Item | Measurement Uncertainty |
|--|-------------------------|
| Conducted Emissions at DC Power Input Port (150kHz-30MHz) | ± 3.0dB |
| Radiated Emissions (Below 1GHz) | ± 4.5dB |
| Radiated Emissions (Above 1GHz) | ± 4.8 |
| Radiated Emissions (Below 30MHz) | ± 3.1dB |
| Electrostatic Discharge | ± 6 % |
| Radiated Immunity (80MHz-2GHz) | ± 1.64dB |
| Electrical Fast Transients-Burst at Power Port | ± 5 % |
| Conducted Immunity at Power port (150kHz-80MHz) | ± 0.96dB |
| Power Supply Failure | ± 4 % |
| Compass Safe Distance | ± 5 % |
| Protection against accidental access to dangerous voltages | ± 5 % |

Remark:

The Ulab (lab Uncertainty) is less than Ucispr (CISPR Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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4.5 Test Location

All tests were performed at:

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

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.

4.6 Test Facility

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

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC -Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None

4.9 EMS Monitor

Visual: Monitored the display of the EUT Audio: Monitored the Sound of the EUT



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5 Equipment List

| Conducted Emissions at DC Power Input Port (150kHz-30MHz) | | | | | |
|---|--------------------------|---------------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Shielding Room | ZhongYu Electron | GB-88 | SEM001-06 | 2019-06-13 | 2022-06-12 |
| EMI Test Receiver | Rohde&Schwarz | ESCI | SEM004-02 | 2020-03-24 | 2021-03-23 |
| Switch | WEINSCHEL ENGINEERING | 1506A | SEN009-01 | N/A | N/A |
| Matching Pad | anzac | PT-75 | SEN009-02 | N/A | N/A |
| Measurement Software | AUDIX | e3 V8.2014-6- 27 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM024-01 | 2020-07-10 | 2021-07-09 |
| LISN | Schwarzebck | NNBM8124 | SEM007-08 | 2019-09-24 | 2020-09-23 |
| LISN | Schwarzebck | NNBM8124 | SEM007-09 | 2019-09-24 | 2020-09-23 |
| Current Sensor Probe | TESEQ | CSP9160A | SEM009-12 | 2019-09-24 | 2020-09-23 |

| Radiated Emissions (Below 30MHz) | | | | | |
|----------------------------------|-------------------------|---------------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| 10m Semi-Anechoic Chamber | SAEMC | FSAC1018 | SEM001-03 | 2018-03-31 | 2021-03-30 |
| MXE EMI receiver | KEYSIGHT | N9038A | SEM004-16 | 2019-12-16 | 2020-12-15 |
| Trilog-Broadband Antenna | Schwarzbeck | VULB9168 | SEM003-18 | 2019-08-08 | 2022-08-07 |
| Pre-amplifier | Sonoma Instrument Co | 310N | SEM005-04 | 2020-04-09 | 2021-04-08 |
| Loop Antenna | ETS-Lindgren | 6502 | SEM003-08 | 2017-08-22 | 2020-08-21 |
| Measurement Software | AUDIX | e3 V8.2014-6- 27 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM029-01 | 2020-07-10 | 2021-07-09 |

| Radiated Emissions (Below 1GHz) | | | | | |
|---------------------------------|----------------------|---------------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| 3m Semi-Anechoic Chamber | ETS-LINDGREN | N/A | SEM001-01 | 2020-07-19 | 2023-07-18 |
| MXE EMI Receiver | Agilent Technologies | N9038A | SEM004-15 | 2019-12-16 | 2020-12-15 |
| BiConiLog Antenna | ETS-LINDGREN | 3142C | SEM003-02 | 2019-05-24 | 2022-05-23 |
| Pre-Amplifier | Agilent Technologies | 8447D | SEM005-01 | 2020-04-01 | 2021-03-31 |
| Measurement Software | AUDIX | e3 V8.2014-6- 27 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM025-01 | 2020-07-10 | 2021-07-09 |



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| Radiated Emissions (Al | oove 1GHz) | | | | |
|-----------------------------|--|---------------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| 3m Semi-Anechoic Chamber | AUDIX | N/A | SEM001-02 | 2018-03-13 | 2021-03-12 |
| EXA Signal Analyzer | Agilent Technologies Inc | N9010A | SEM004-12 | 2020-04-09 | 2021-04-08 |
| Horn Antenna | Rohde&Schwarz | HF907 | SEM003-07 | 2018-04-13 | 2021-04-12 |
| Pre-Amplifier | Compliance Directions Systems Inc. | PAP-0126 | SEM004-11 | 2019-09-24 | 2020-09-23 |
| Measurement Software | AUDIX | e3 V8.2014-6- 27 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM026-01 | 2020-07-10 | 2021-07-09 |
| Horn Antenna | Schwarzbeck | BBHA 9170 | SEM003-15 | 2017-10-17 | 2020-10-16 |
| Pre-Amplifier | Compliance Directions Systems Inc. | PAP-2640-50 | SEM005-08 | 2020-04-01 | 2021-03-31 |

| Electrostatic Discharge | | | | | |
|-------------------------|--------------|----------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| ESD Ground Plane | SGS(3m*3m) | N/A | SEN006-01 | N/A | N/A |
| ESD Generator | TESEQ AG | NSG 437 | SEM019-02 | 2020-04-16 | 2021-04-15 |

| Electrical Fast Transients-Burst at Power Port | | | | | |
|--|--------------|--------------------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Ultra Compact Simulator | EM Test | UCS 500N7 | SEM018-02 | 2020-03-26 | 2021-03-25 |
| Measurement Software | EM TEST | IEC CONTROL V6.0.1 | N/A | N/A | N/A |

| Conducted Immunity at Power port (150kHz-80MHz) | | | | | |
|---|-----------------|----------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Shielding Room | AUDIX | N/A | SEM001-08 | 2019-06-13 | 2022-06-12 |
| RF-Generator | SCHAFFNER | NSG 2070 | SEM006-01 | 2019-09-24 | 2020-09-23 |
| Coupling/Decoupling Network | SCHAFFNER | CDN M016 | SEM007-03 | 2020-04-09 | 2021-04-08 |
| EM Clamp | SCHAFFNER | KEMZ 801 | SEM013-01 | 2019-09-25 | 2020-09-24 |
| Conditioning Amplifier | Brüel & Kjaer | 2690-OS2 | SEM005-10 | 2020-04-20 | 2021-04-19 |
| Audio Analyzer | Rohde & Schwarz | UPV | SEM008-03 | 2019-09-25 | 2020-09-24 |



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| Radiated Immunity (80MHz-2GHz) | | | | | |
|---|--------------------------|-------------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Fully-Anechoic Chamber 2 | Chang Zhou Zhong Shuo | 854 | SEM001-05 | 2020-07-10 | 2021-07-09 |
| Power Sensor | Rohde&Schwarz | NRP-Z91 | SEM009-09 | 2020-03-23 | 2021-03-22 |
| Stacked LogPer Broadband Antenna | Schwarzbeck | STLP 9129 | SEM003-25 | N/A | N/A |
| Signal Generator | Rohde&Schwarz | SMB100A | SEM006-11 | 2020-03-23 | 2021-03-22 |
| Broadband Amplifier | Rohde&Schwarz | BBA150- BC250 | SEM005-12 | 2019-09-24 | 2020-09-23 |
| Broadband Amplifier | Rohde&Schwarz | BBA150-D110 | SEM005-13 | 2020-04-01 | 2021-03-31 |
| Broadband Amplifier | Rohde&Schwarz | BBA150-E60 | SEM005-16 | 2020-05-21 | 2021-05-20 |
| Measurement Software | Rohde&Schwarz | EMC32 V9.25.00 | N/A | N/A | N/A |
| Amplifier | Amplifier Research | 75A250A | SEM005-11 | 2020-04-01 | 2021-03-31 |
| Wire ISN | Rohde&Schwarz | ENY 22 | EMC0114 | 2019-09-24 | 2020-09-23 |
| Audio Analyzer | Rohde&Schwarz | UPL | SEM008-01 | 2019-09-24 | 2020-09-23 |
| Conditioning Amplifier | Brüel&Kjaer | 2690-OS2 | SEM005-10 | 2020-04-14 | 2021-04-13 |
| Mouth Simulator | Brüel&Kjaer | 4227 | SEM017-01 | 2020-04-14 | 2021-04-13 |
| Signal Source | Brüel&Kjaer | 4231 | SEM017-02 | 2020-03-25 | 2021-03-24 |
| Coupling/Decoupling Network | SCHLODER | CDN-M2+3 | SEM007-10 | 2019-09-24 | 2020-09-23 |
| Universal Radio Communication Tester | Rohde&Schwarz | CMU 200 | SEM010-06 | 2019-09-24 | 2020-09-23 |

| Power Supply Failure | | | | | |
|-------------------------|--------------|--------------------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Ultra Compact Simulator | EM Test | UCS 500N7 | SEM018-02 | 2020-03-26 | 2021-03-25 |
| Measurement Software | EM TEST | IEC CONTROL V6.0.1 | N/A | N/A | N/A |

| Compass Safe Distance | | | | | |
|---|--------------|--------------------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Magnetic Field Test | EM TEST | MS100N | SEM018-04 | 2020-05-07 | 2021-05-06 |
| Electric and Magnetic Field Analyzer | Narda | EHP-50F | EMC092 | 2020-02-06 | 2021-02-05 |
| Measurement Software | EM TEST | IEC CONTROL V6.0.1 | N/A | N/A | N/A |



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| General used equipmen | t | | | | |
|------------------------------------|---|----------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Humidity/ Temperature Indicator | Shanghai Meteorological Industry Factory | ZJ1-2B | SEM002-03 | 2019-09-26 | 2020-09-25 |
| Humidity/ Temperature Indicator | Shanghai Meteorological Industry Factory | ZJ1-2B | SEM002-04 | 2019-09-26 | 2020-09-25 |
| Humidity/ Temperature Indicator | Mingle | N/A | SEM002-08 | 2019-09-26 | 2020-09-25 |
| Barometer | Changchun Meteorological Industry Factory | DYM3 | SEM002-01 | 2020-04-07 | 2021-04-06 |



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6 Emission Test Results

6.1 Conducted Emissions at DC Power Input Port (150kHz-30MHz)

Test Requirement: IEC/EN 60945:2002 clause 9.2

Test Method: EN 60945 clause 9.2.2

Limit:

0.01MHz-0.15MHz 96dB(μ V)-50dB(μ V) quasi-peak 0.15MHz-0.35MHz 60dB(μ V)-50dB(μ V) quasi-peak

0.35MHz-30MHz 50dB(µV) quasi-peak

Detector: Peak for pre-scan (200Hz resolution bandwidth) 0.01MHz to 0.15MHz and

(9kHz resolution bandwidth) 0.15MHz to 30MHz

6.1.1 E.U.T. Operation

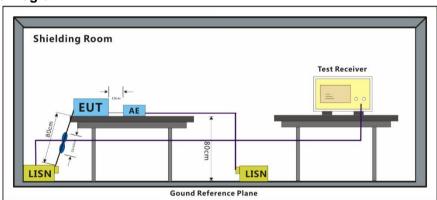
Operating Environment:

Temperature: 23 °C Humidity: 56 % RH Atmospheric Pressure: 1010 mbar

6.1.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|-----------|--|
| Final test | 05 | On mode, keep EUT working normally. |
| Pre-scan | 06 | Idle mode, Keep the EUT at standby mode. |

6.1.3 Test Setup Diagram



6.1.4 Measurement Procedure and Data

An initial pre-scan was performed with peak detector. Quasi-Peak measurement were performed at the frequencies with maximized peak emission were detected.



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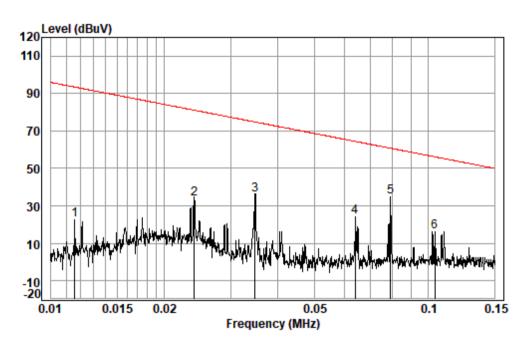


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Test data for NRS2

Test Mode: 05: Line: Live line



Site : Shielding Room

Condition: Line Job No. : 06017CR

Test mode: 05

| | Freq | | LISN Factor | | | | | Remark |
|---|--------|------|----------------|-------|-------|-------|--------|--------|
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| 1 | 0.0116 | 0.01 | 10.44 | 12.16 | 22.61 | 93.52 | -70.91 | QP |
| 2 | 0.0240 | 0.01 | 9.92 | 23.77 | 33.70 | 81.14 | -47.44 | QP |
| 3 | 0.0348 | 0.01 | 9.77 | 26.24 | 36.02 | 74.84 | -38.82 | QP |
| 4 | 0.0641 | 0.01 | 9.63 | 14.55 | 24.19 | 64.44 | -40.25 | QP |
| 5 | 0.0794 | 0.01 | 9.61 | 25.35 | 34.97 | 60.81 | -25.84 | QP |
| 6 | 0.1041 | 0.02 | 9.60 | 6.77 | 16.39 | 56.21 | -39.82 | OP |



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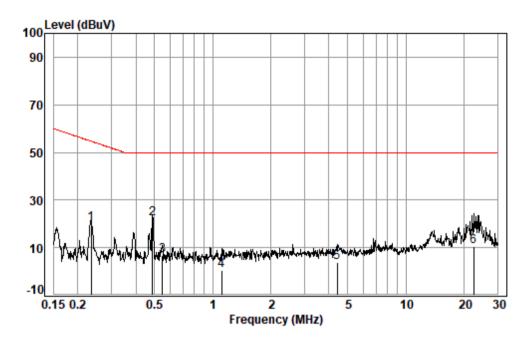
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Test Mode: 05: Line: Live line



Site : Shielding Room

Condition: Line Job No. : 06017CR

Test mode: 05

| | | Cable | LISN | Read | | Limit | 0ver | |
|---|---------|-------|--------|-------|-------|-------|--------|--------|
| | Freq | Loss | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | |
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| | | | | | | | | |
| 1 | 0.2353 | 0.03 | 9.68 | 10.46 | 20.17 | 54.68 | -34.51 | QP |
| 2 | 0.4889 | 0.06 | 9.69 | 12.59 | 22.34 | 50.00 | -27.66 | QP |
| 3 | 0.5493 | 0.06 | 9.69 | -2.84 | 6.91 | 50.00 | -43.09 | QP |
| 4 | 1.1114 | 0.10 | 9.71 | -9.47 | 0.34 | 50.00 | -49.66 | QP |
| 5 | 4.4071 | 0.16 | 9.80 | -6.06 | 3.90 | 50.00 | -46.10 | QP |
| 6 | 22.5354 | 0.25 | 10.96 | -0.51 | 10.70 | 50.00 | -39.30 | OP |



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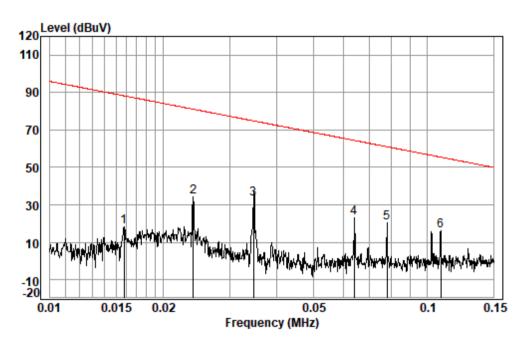


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Test data for NRS1

Test Mode: 05: Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 06017CR

Test mode: 05

| | Freq | | LISN Factor | | | | | Remark |
|---|--------|------|----------------|-------|-------|-------|--------|--------|
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| 1 | 0.0158 | 0.01 | 10.09 | 7.98 | 18.08 | 88.27 | -70.19 | QP |
| 2 | 0.0240 | 0.01 | 9.85 | 24.68 | 34.54 | 81.14 | -46.60 | QP |
| 3 | 0.0347 | 0.01 | 9.71 | 23.69 | 33.41 | 74.89 | -41.48 | QP |
| 4 | 0.0641 | 0.01 | 9.60 | 13.74 | 23.35 | 64.44 | -41.09 | QP |
| 5 | 0.0783 | 0.01 | 9.58 | 11.05 | 20.64 | 61.04 | -40.40 | QP |
| 6 | 0.1084 | 0.02 | 9.56 | 6.55 | 16.13 | 55.52 | -39.39 | OP |



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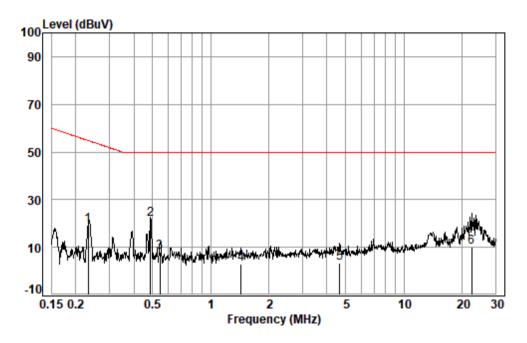
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Test Mode: 05; Line: Neutral Line



Site : Shielding Room

Condition: Neutral Job No. : 06017CR

Test mode: 05

| | mouc. os | | | | | | | |
|---|----------|-------|--------|-------|-------|-------|--------|--------|
| | | Cable | LISN | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | |
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| | | | | | | | | |
| 1 | 0.2329 | 0.03 | 9.66 | 9.58 | 19.27 | 54.81 | -35.54 | QP |
| 2 | 0.4889 | 0.06 | 9.67 | 12.02 | 21.75 | 50.00 | -28.25 | QP |
| 3 | 0.5464 | 0.06 | 9.67 | -1.73 | 8.00 | 50.00 | -42.00 | QP |
| 4 | 1.4409 | 0.13 | 9.71 | -6.67 | 3.17 | 50.00 | -46.83 | QP |
| 5 | 4.6715 | 0.17 | 9.83 | -6.67 | 3.33 | 50.00 | -46.67 | QP |
| 6 | 22.5354 | 0.25 | 10.82 | -0.80 | 10.27 | 50.00 | -39.73 | OP |



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6.2 Radiated Emissions (Below 30MHz)

Test Requirement: IEC/EN 60945 :2002 clause 9.3

Test Method: EN 60945 clause 9.3.2

Measurement Distance:

Limit:

150KHz-300KHz 80 dB(μ V/m) to 52 dB(μ V/m) quasi-peak 52 dB(μV/m) to 34 dB(μV/m) quasi-peak 300KHz-30MHz

Detector: Peak for pre-scan (9KHz resolution bandwidth) 150KHz to 30MHz.

6.2.1 E.U.T. Operation

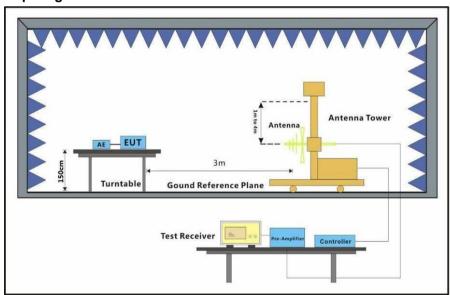
Operating Environment:

Temperature: 25 Atmospheric Pressure: 1010 mbar °C Humidity: 45 % RH

6.2.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|-----------|--|
| Final test | 05 | On mode, keep EUT working normally. |
| Pre-scan | 06 | Idle mode, Keep the EUT at standby mode. |

6.2.3 Test Setup Diagram



6.2.4 Measurement Procedure and 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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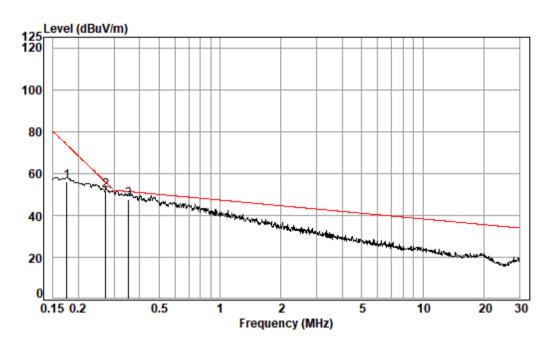
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Test data for NRS2 Test Mode: 05



Condition: 3m

Job No. : 06017CR

Test Mode: 05

| | Freq | | Preamp Factor | | | | | | Remark |
|------|-------|-------|------------------|------|-------|--------|--------|--------|--------|
| _ | MHz | dB/m | dB | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 0.176 | 13.92 | 32.21 | 0.02 | 74.14 | 55.87 | 73.58 | -17.71 | QP |
| 2 | 0.273 | 13.82 | 32.22 | 0.03 | 70.11 | 51.74 | 55.81 | -4.07 | QP |
| 3 pp | 0.354 | 13.80 | 32.23 | 0.04 | 66.05 | 47.66 | 51.35 | -3.69 | QP |



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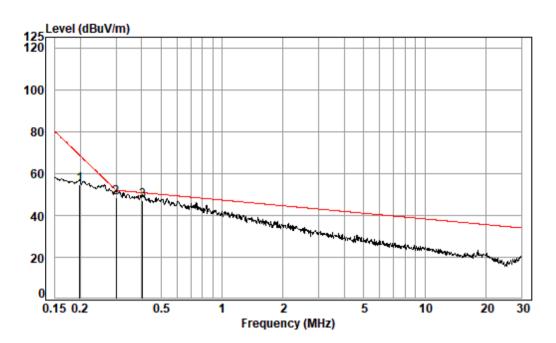
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Test data for NRS1 Test Mode: 05



Condition: 3m

Job No. : 06017CR

Test Mode: 05 Difference

| | Freq | | Preamp Factor | | | | | | Remark |
|------|-------|-------|------------------|------|-------|--------|--------|--------|--------|
| - | MHz | dB/m | dB | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 0.199 | 13.90 | 32.21 | 0.03 | 73.14 | 54.86 | 68.66 | -13.80 | QP |
| 2 pp | 0.300 | 13.80 | 32.23 | 0.04 | 66.99 | 48.60 | 52.00 | -3.40 | QP |
| 3 | 0.406 | 13.80 | 32.24 | 0.04 | 65.23 | 46.83 | 50.82 | -3.99 | QP |



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6.3 Radiated Emissions (Below 1GHz)

Test Requirement: IEC/EN 60945 :2002 clause 9.3

Test Method: EN 60945 clause 9.3.2

Measurement Distance: 3m

Limit:

30MHz-1GHz 54 dB(µV/m) quasi-peak

156MHz-165MHz 24 dB(μV/m) quasi-peak, 30 dB(μV/m) peak

Detector: Peak for pre-scan (9KHz resolution bandwidth) 156MHz to 165MHz,

(120kHz resolution bandwidth) 30MHz to 1000MHz.

6.3.1 E.U.T. Operation

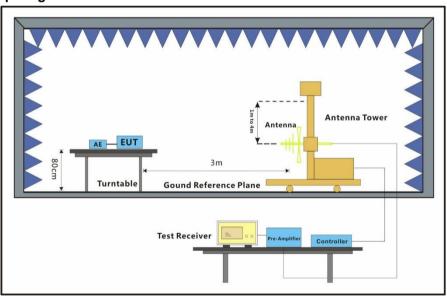
Operating Environment:

Temperature: 25 °C Humidity: 51 % RH Atmospheric Pressure: 1010 mbar

6.3.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|-----------|--|
| Final test | 05 | On mode, keep EUT working normally. |
| Pre-scan | 06 | Idle mode, Keep the EUT at standby mode. |

6.3.3 Test Setup Diagram



6.3.4 Measurement Procedure and 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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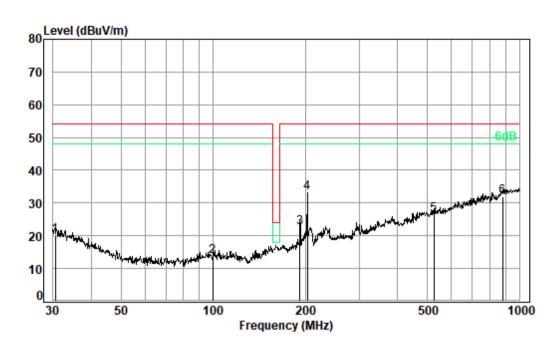


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Test data for NRS2

Test Mode: 05; Polarity: Horizontal



Condition: 3m HORIZONTAL

Job No. : 06017CR

Test Mode: 05 : 1#

> Cable Ant Preamp Read limit Over Loss Factor Factor Level Line Limit Remark Frea Level dBuV dBuV/m dBuV/m MHz dB dB/m dB dB 30.53 0.61 22.59 24.72 20.19 54.00 -33.81 QP 1 27.73 2 99.88 1.10 13.99 27.61 26.30 13.78 54.00 -40.22 QP 3 191.75 1.19 15.55 27.17 32.94 22.51 54.00 -31.49 QP 4 pp 202.81 1.23 15.66 27.13 43.34 33.10 54.00 -20.90 QP 5 526.40 2.56 24.66 27.89 27.07 26.40 54.00 -27.60 QP 3.46 29.09 27.27 26.80 32.08 54.00 -21.92 QP 6 881.41



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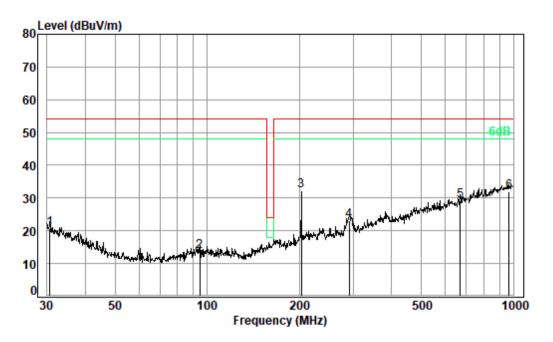
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Test Mode: 05; Polarity: Vertical



Condition: 3m VERTICAL Job No. : 06017CR

968.93

Test Mode: 05 : 1#

> 1 2

> 4

5

3 рр

Cable Ant Preamp Read Limit Over Loss Factor Factor Level Line Limit Remark Freq Level dBuV dBuV/m dBuV/m MHz dB dB/m dB dB 30.64 0.61 22.51 27.73 25.31 20.70 54.00 -33.30 QP 94.76 1.20 13.61 27.62 26.41 13.60 54.00 -40.40 QP 202.81 1.23 15.66 27.13 42.59 32.35 54.00 -21.65 QP 291.04 1.94 18.38 26.89 29.61 23.04 54.00 -30.96 QP 670.49 2.84 27.10 27.98 27.13 29.09 54.00 -24.91 QP

3.57 29.50 26.81 25.73 31.99 54.00 -22.01 QP



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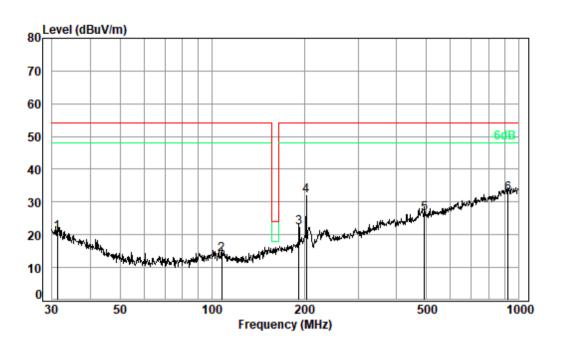


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Test data for NRS1

Test Mode: 05; Polarity: Horizontal



Condition: 3m HORIZONTAL

Job No. : 06017CR

Test Mode: 05

: 2#

| | | | | Preamp | | | | | |
|------|--------|------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 31.29 | 0.61 | 22.02 | 27.73 | 25.91 | 20.81 | 54.00 | -33.19 | QP |
| 2 | 107.51 | 1.11 | 13.77 | 27.56 | 26.56 | 13.88 | 54.00 | -40.12 | QP |
| 3 | 191.75 | 1.19 | 15.55 | 27.17 | 32.78 | 22.35 | 54.00 | -31.65 | QP |
| 4 | 202.81 | 1.23 | 15.66 | 27.13 | 42.16 | 31.92 | 54.00 | -22.08 | QP |
| 5 | 492.47 | 2.49 | 24.25 | 27.77 | 27.57 | 26.54 | 54.00 | -27.46 | QP |
| 6 рр | 925.76 | 3.53 | 29.20 | 27.03 | 26.77 | 32.47 | 54.00 | -21.53 | QP |



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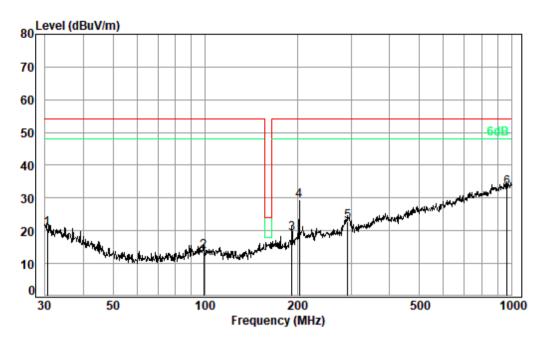
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Test Mode: 05; Polarity: Vertical



Condition: 3m VERTICAL Job No. : 06017CR

Test Mode: 05

: 2#

| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|------|--------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 30.53 | 0.61 | 22.59 | 27.73 | 25.22 | 20.69 | 54.00 | -33.31 | QP |
| 2 | 98.83 | 1.12 | 13.88 | 27.61 | 26.20 | 13.59 | 54.00 | -40.41 | QP |
| 3 | 191.75 | 1.19 | 15.55 | 27.17 | 29.68 | 19.25 | 54.00 | -34.75 | QP |
| 4 | 202.81 | 1.23 | 15.66 | 27.13 | 39.57 | 29.33 | 54.00 | -24.67 | QP |
| 5 | 292.06 | 1.95 | 18.47 | 26.89 | 29.22 | 22.75 | 54.00 | -31.25 | QP |
| 6 рр | 968.93 | 3.57 | 29.50 | 26.81 | 26.75 | 33.01 | 54.00 | -20.99 | QP |



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6.4 Radiated Emissions (Above 1GHz)

Test Requirement: IEC/EN 60945 :2002 clause 9.3

Test Method: EN 60945 clause 9.3.2

Measurement Distance: 3m

Limit:

1GHz-2GHz 54 dB(µV/m) peak

Detector: Peak for pre-scan (120KHz resolution bandwidth) 1GHz to 2GHz

6.4.1 E.U.T. Operation

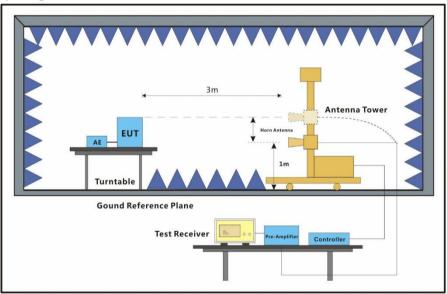
Operating Environment:

Temperature: 23.5 °C Humidity: 55.4 % RH Atmospheric Pressure: 1010 mbar

6.4.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|-----------|--|
| Final test | 05 | On mode, keep EUT working normally. |
| Pre-scan | 06 | Idle mode, Keep the EUT at standby mode. |

6.4.3 Test Setup Diagram



6.4.4 Measurement Procedure and Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. The EUT was measured by Horn antenna with 2 orthogonal polarities.



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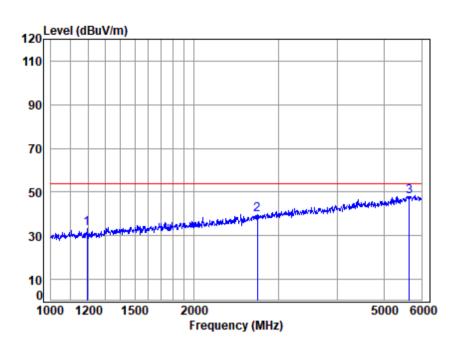


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Test data for NRS2

Test Mode: 05; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 06017CR

Mode : 05 Note

> 1 2 3

| | Freq | | | Preamp Factor | | | | | Remark | |
|---|----------|------|-------|------------------|-------|--------|--------|--------|--------|---|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | | - |
| L | 1191.952 | 2.75 | 24.55 | 40.28 | 46.06 | 33.08 | 54.00 | -20.92 | Peak | |
| 2 | 2712.878 | 4.67 | 29.69 | 41.10 | 46.60 | 39.86 | 54.00 | -14.14 | Peak | |
| 3 | 5655 516 | 8 21 | 34 76 | 42 45 | 47 59 | 48 11 | 54 00 | -5 89 | Peak | |



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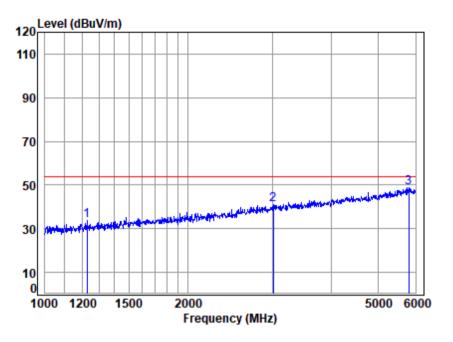
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Test Mode: 05; Polarity: Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 06017CR Mode : 05

Note

| | Freq | | | Preamp Factor | | | | | Remark |
|---|----------|------|-------|------------------|-------|--------|--------|--------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1226.618 | 2.81 | 24.71 | 40.30 | 46.72 | 33.94 | 54.00 | -20.06 | Peak |
| 2 | 3015.374 | 4.88 | 30.93 | 41.22 | 46.28 | 40.87 | 54.00 | -13.13 | Peak |
| 3 | 5809.577 | 8.23 | 34.91 | 42.36 | 47.94 | 48.72 | 54.00 | -5.28 | Peak |



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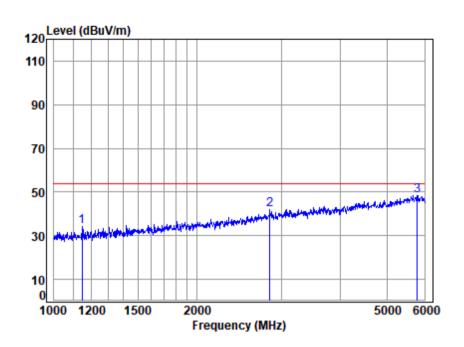


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Test data for NRS1

Test Mode: 05; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 06017CR

Mode : 05 Note

> 1 2 3

| Freq | | | Preamp Factor | | | | | Remark |
|----------|------|---------|------------------|-------|--------|--------|--------|--------|
| MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1145.881 | 2.66 | 24.34 | 40.24 | 47.55 | 34.31 | 54.00 | -19.69 | Peak |
| 2837.161 | 4.76 | 30.23 | 41.14 | 47.92 | 41.77 | 54.00 | -12.23 | Peak |
| 5799 177 | 8 23 | 3/1 9/0 | 12 36 | 17 79 | 48 56 | 5/1 00 | -5 11 | Poak |



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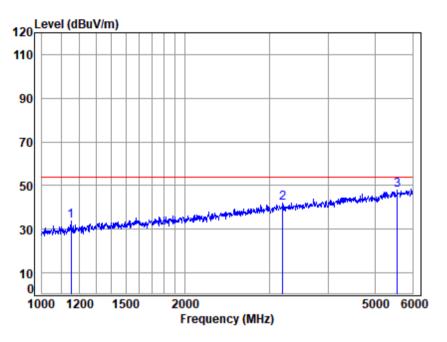
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Test Mode: 05; Polarity: Vertical



Site : chamber Condition: 3m VERTICAL Job No : 06017CR

Mode : 05 Note

1

2

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark Freq dBuV dBuV/m dBuV/m MHz dB dB/m dB dB 1152.057 2.67 24.37 40.24 46.84 33.64 54.00 -20.36 Peak 3204.781 5.14 31.24 41.42 47.11 42.07 54.00 -11.93 Peak 5575.028 8.19 34.68 42.51 47.52 47.88 54.00 -6.12 Peak



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Immunity Test Results

General Performance Criteria Description in EN 60945

Performance criteria A the EUT shall continue to operate as intended during and after the test. No

> degradation of performance or loss of function is allowed, as defined in the relevant equipment standard and in the technical specification published by the

manufacturer:

Performance criteria B the EUT shall continue to operate as intended after the test. No degradation of

performance or loss of function is allowed, as defined in the relevant equipment standard and in the technical specification published by the manufacturer.

During the test, degradation or loss of function or performance which is selfrecoverable is however, allowed, but no change of actual operating state or stored

data is allowed.

Performance criteria C temporary degradation or loss of function or performance is allowed during the test,

provided the function is self-recoverable, or can be restored at the end of the test by

the operation of the controls, as defined in the relevant equipment

standard and in the technical specification published by the manufacturer.



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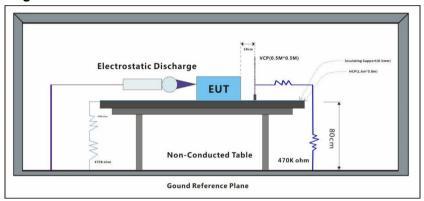
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7.2 Electrostatic Discharge

Test Requirement: IEC/EN 60945 :2002 clause 10.9

Test Method: EN 61000-4-2:2009

7.2.1 Test Setup Diagram



7.2.2 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 51 % RH Atmospheric Pressure: 1000 mbar

7.2.3 Test Mode Description

| Pre-scan / Final test | Mode Code | Description | | | | |
|--------------------------|-----------|--|--|--|--|--|
| Final test | 05 | On mode, keep EUT working normally. | | | | |
| Final test | 06 | Idle mode, Keep the EUT at standby mode. | | | | |

7.2.4 Test Condition and Results:

Performance Criterion: B

Discharge Impedance: 330Ω/150pF

Number of Discharge: Minimum 10 times at each test point

Discharge Mode: Single Discharge Discharge Period: 1 second minimum

Test Point: 1. All insulated enclosure and seams.

2. All accessible metal parts of the enclosure.

3. All side



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| Discharge type | Level (kV) | Polarity | Test Point | Result / Observations |
|---------------------|------------|----------|------------|-----------------------|
| Air Discharge | 2,4,8 | + | 1 | Α |
| Air Discharge | 2,4,8 | - | 1 | А |
| Contact Discharge | 6 | + | 2 | А |
| Contact Discharge | 6 | - | 2 | Α |
| Horizontal Coupling | 4 | + | 3 | Α |
| Horizontal Coupling | 4 | - | 3 | Α |
| Vertical Coupling | 4 | + | 3 | A |
| Vertical Coupling | 4 | - | 3 | А |

Results:

A: No degradation in the performance of the EUT was observed.

No false alarms or other malfunctions were observed during or after the test.



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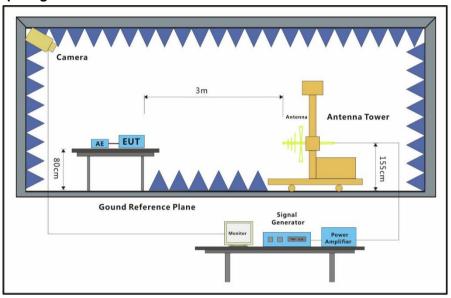
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7.3 Radiated Immunity (80MHz-2GHz)

Test Requirement: IEC/EN 60945 :2002 clause 10.4 Test Method: EN 61000-4-3:2006+A1:2008+A2:2010

7.3.1 Test Setup Diagram



7.3.2 E.U.T. Operation

Operating Environment:

Temperature: 25 Humidity: % RH Atmospheric Pressure: 1000 mbar °C 51

7.3.3 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|-----------|--|
| Final test | 05 | On mode, keep EUT working normally. |
| Final test | 06 | Idle mode, Keep the EUT at standby mode. |

7.3.4 Test Condition and Results:

Performance Criterion: A

Frequency Range: 80MHz to 2GHz

Antenna Polarisation: Vertical and Horizontal Modulation: 400Hz,80% Amp. Mod,10% increment



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| Frequency | Level (V/m) | EUT Face | Dwell time | Result / Observations |
|------------|-------------|-----------|------------|--------------------------|
| 80MHz-2GHz | 10 | Front | 2s | А |
| 80MHz-2GHz | 10 | Back | 2s | Α |
| 80MHz-2GHz | 10 | Left | 2s | А |
| 80MHz-2GHz | 10 | Right | 2s | А |
| 80MHz-2GHz | 10 | Тор | 2s | A |
| 80MHz-2GHz | 10 | Underside | 2s | A |

A: No degradation in the performance of the EUT was observed

No false alarms or other malfunctions were observed during or after the test.



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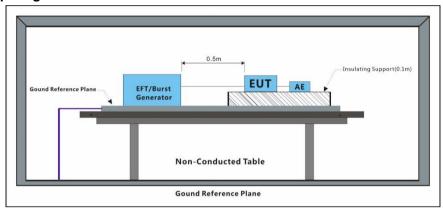
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7.4 Electrical Fast Transients-Burst at Power Port

Test Requirement: IEC/EN 60945 :2002 clause 10.5

Test Method: EN 61000-4-4:2012

7.4.1 Test Setup Diagram



7.4.2 E.U.T. Operation

Operating Environment:

Temperature: 21.7 Humidity: 76.9 % RH Atmospheric Pressure: 1000 mbar

7.4.3 Test Mode Description

| Pre-scan / Final test | Mode Code | Description | | |
|--------------------------|-----------|--|--|--|
| Final test | 05 | On mode, keep EUT working normally. | | |
| Final test | 06 | Idle mode, Keep the EUT at standby mode. | | |

7.4.4 Test Condition and Results:

Performance Criterion: B Repetition Frequency: 5kHz

Burst Period: 300ms

Test Duration: 3 minute per level & polarity

| Test Line | Level (kV) | Polarity | CDN/Clamp | Result / Observations | |
|---------------|------------|----------|-----------|--------------------------|--|
| DC power port | 1 | + | CDN | А | |
| DC power port | 1 | - | CDN | А | |

A: No degradation in the performance of the EUT was observed

No false alarms or other malfunctions were observed during or after the test.



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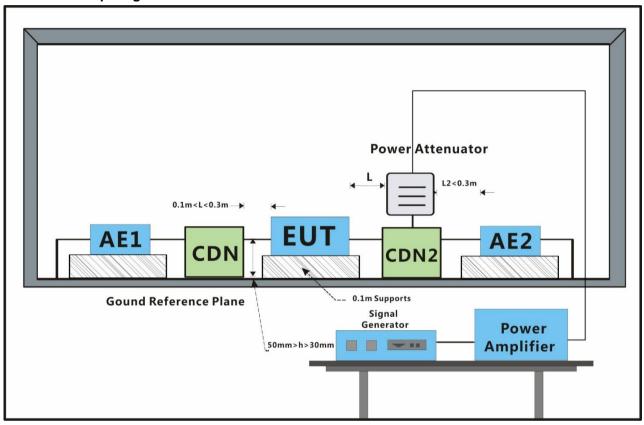
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7.5 Conducted Immunity at Power port (150kHz-80MHz)

Test Requirement: IEC/EN 60945 :2002 clause 10.3

Test Method: EN 61000-4-6:2014

7.5.1 Test Setup Diagram



7.5.2 E.U.T. Operation

Operating Environment:

Temperature: 21.7 °C Humidity: 76.9 % RH Atmospheric Pressure: 1000 mbar

7.5.3 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|-----------|--|
| Final test | 05 | On mode, keep EUT working normally. |
| Final test | 06 | Idle mode, Keep the EUT at standby mode. |

7.5.4 Test Condition and Results:

Performance Criterion: A

Frequency Range: 0.15MHz to 80MHz

Modulation: 80%, 400Hz Amplitude Modulation

Step Size: 1%



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| Frequency Range | Level (Vrms) | CDN/Clamp Dwell time | | Result / Observations |
|-----------------|--------------|----------------------|----|--------------------------|
| 150KHz to 80MHz | 3 | CDN | 2s | Α |
| 2MHz | 10 | CDN | 2s | Α |
| 3MHz | 10 | CDN | 2s | Α |
| 4MHz | 10 | CDN | 2s | Α |
| 6.2MHz | 10 | CDN | 2s | Α |
| 8.2MHz | 10 | CDN | 2s | Α |
| 12.6MHz | 10 | CDN | 2s | Α |
| 16.5MHz | 10 | CDN | 2s | Α |
| 18.8MHz | 10 | CDN | 2s | Α |
| 22MHz | 10 | CDN | 2s | Α |
| 25MHz | 10 | CDN | 2s | А |

A: No degradation in the performance of the EUT was observed

No false alarms or other malfunctions were observed during or after the test.



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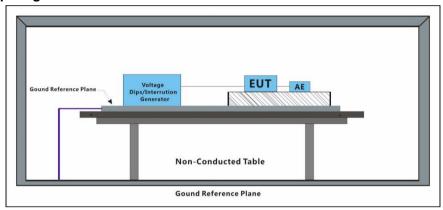
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7.6 Power Supply Failure

IEC/EN 60945 :2002 clause 10.3 Test Requirement: Test Method: EN 61000-4-11:2004 +A1:2017

7.6.1 Test Setup Diagram



7.6.2 E.U.T. Operation

Operating Environment:

Temperature: 21.8 Humidity: 76.8 % RH Atmospheric Pressure: 1000 mbar

7.6.3 Test Mode Description

| Pre-scan / Final test | Mode Code | Description | | |
|--------------------------|-----------|--|--|--|
| Final test | 05 | On mode, keep EUT working normally. | | |
| Final test | 06 | Idle mode, Keep the EUT at standby mode. | | |

7.6.4 Test Condition and Results:

Performance Criterion: C Test duration time: 60s Requirement: 3Times

| Voltage (& Reduction) | Duration(Sec) | Performance Criterion | Observation | Test Result |
|--------------------------|---------------|--------------------------|-------------|-------------|
| 100 | 60 | С | Note1 | Α |

Note1: During power supply failure tests, EUT operates automatically and normally each time after power is

A: No degradation in the performance of the EUT was observed

No false alarms or other malfunctions were observed during or after the test.



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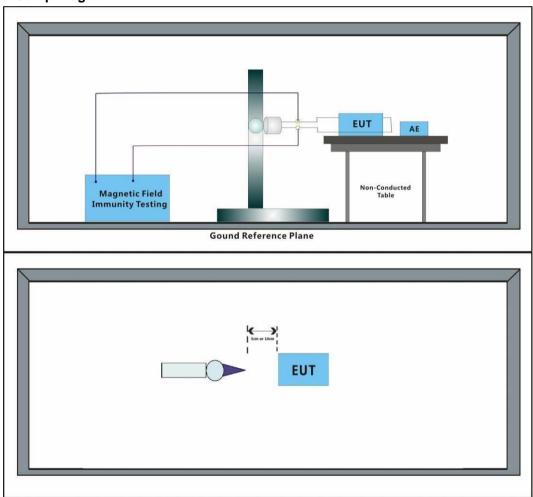
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7.7 Compass Safe Distance

Test Requirement: IEC/EN 60945 :2002 clause 11.2
Test Method: EN 61000-4-8:2010 & ISO 694:2001

7.7.1 Test Setup Diagram



7.7.2 E.U.T. Operation

Operating Environment:

Temperature: 21.8 °C Humidity: 76.8 % RH Atmospheric Pressure: 1000 mbar

7.7.1 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|-----------|--|
| Final test | 06 | Idle mode, Keep the EUT at standby mode. |
| Final test | 07 | Power Off, keep the EUT unpowered. |
| Final test | 80 | Power On, Keep the EUT powered. |



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7.7.2 Test Condition and Results:

Compass safe distance is the distance between the nearest point of the EUT and the subject compass, where an unacceptable compass deviation occur.

For a standard compass, the horizontal magnetic flux shall be less than 0.942 mGauss (compass deviation of 5.4°/H).

For a steering/standby/emergency compass, the horizontal magnetic flux shall be less than 3.142 mGauss (compass deviation of 18°/H).

The compass safe distance is measured with a DC milligaussmeter. The EUT is first rotated to determine the worst case direction. Secondly the EUT is moved towards/away from the measurement probe until the required field is measured. The distance is then measured.

| EUT mode | Front | Rear | Left | Right | Тор | Bottom |
|------------|-------|------|------|-------|------|--------|
| Power Off | 5cm | 5cm | 5cm | 5cm | 10cm | 5cm |
| Power On | 5cm | 5cm | 5cm | 5cm | 10cm | 5cm |
| Normalised | 5cm | 5cm | 5cm | 5cm | 10cm | 5cm |

Note:

All distances rounded up to the nearest 5cm or 10cm.

The EUT was measured before after being normalized, it was normalised by placing it in a Helmholtz coil and applying a a d.c. field of 1x 1 000 / 4π A/m with a superimposed stabilizing a.c. field of 50 Hz of 18x 1 000/ 4π A/m r.m.s.



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Test Setup Photo

Conducted Emissions at DC Power Input Port (150kHz-30MHz)



Radiated Emissions (Below 30MHz)





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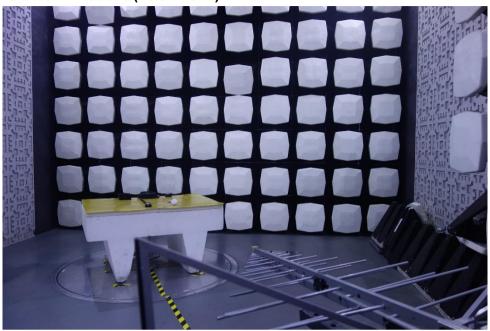
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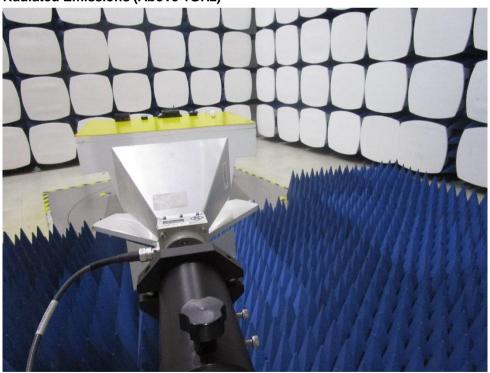
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Radiated Emissions (Below 1GHz)



Radiated Emissions (Above 1GHz)





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Electrostatic Discharge



Radiated Immunity (80MHz-2GHz)





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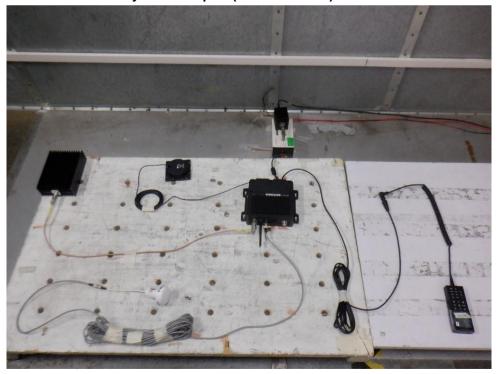
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Electrical Fast Transients-Burst at Power Port



Conducted Immunity at Power port (150kHz-80MHz)





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Power Supply Failure



Compass Safe Distance—General Setup





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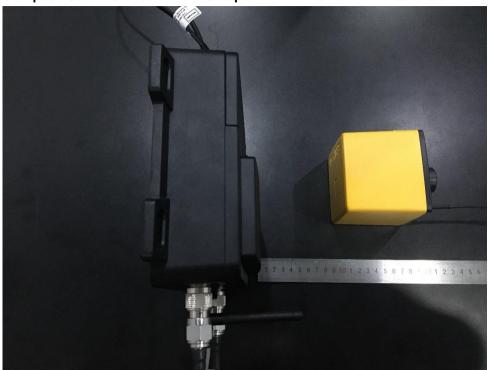
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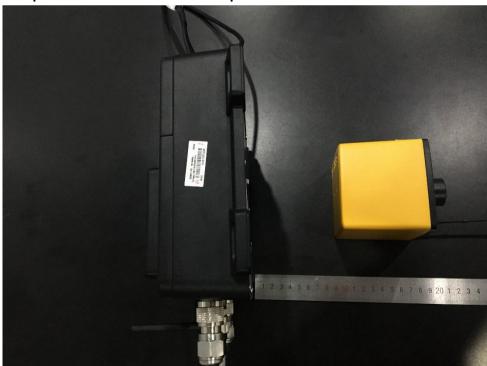
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Compass Safe Distance—Front Setup



Compass Safe Distance—Rear Setup





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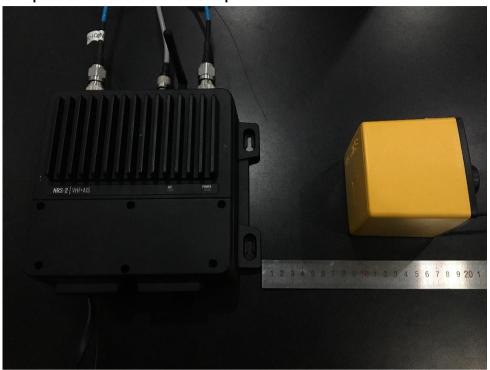
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Compass Safe Distance—Left Setup



Compass Safe Distance—Right Setup





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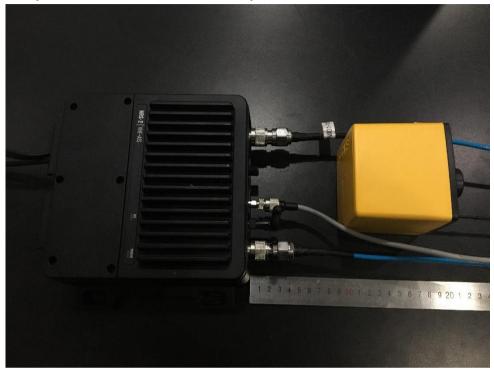
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Compass Safe Distance—Bottom Setup



EUT Constructional Details (EUT Photos)

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM2007006017CR.

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