FCC and ISEDC Test Report

SRT Marine Systems AIS Class B Transceiver, Model: VMS-100s

In accordance with FCC 47 CFR Part 15B and ISEDC RSS-GEN

Prepared for: SRT Marine Systems plc Wireless House Westfield Industrial Estate Midsomer Norton Bath BA3 4BS United Kingdom SUD

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FCC ID: UYW-4290002 IC: 7075A-4290002A

COMMERCIAL-IN-CONFIDENCE

Document Number: 75946230-06 | Issue: 01

| SIGNATURE | | | |
|------------|---------------|----------------------|-----------------|
| KARCES | | | |
| NAME | JOB TITLE | RESPONSIBLE FOR | ISSUE DATE |
| Kim Archer | Sales Manager | Authorised Signatory | 14 October 2019 |

Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD document control rules.

ENGINEERING STATEMENT

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported testing was carried out on a sample equipment to demonstrate limited compliance with FCC 47 CFR Part 15B and ISEDC RSS-GEN. The sample tested was found to comply with the requirements defined in the applied rules.

| SIGNATURE | | |
|---|-----------------|-------------------------------|
| Gt.Manutar. | | |
| NAME | RESPONSIBLE FOR | DATE |
| Graeme Lawler | Testing | 14 October 2019 |
| FCC Accreditation | | Industry Canada Accreditation |
| 90987 Octagon House, Fareham Test Laboratory IC2932B-1 Octagon House, Fareham Test Laboratory | | |
| EXECUTIVE SUMMA | ARY | |

A sample of this product was tested and found to be compliant with FCC 47 CFR Part 15B: 2018 and ISEDC RSS-GEN: Issue 04 (2014-11) for the tests detailed in section 1.3.



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1 Report Summary

1.1 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

| Issue | Description of Change | Date of Issue |
|-------|-----------------------|-----------------|
| 1 | First Issue | 14 October 2019 |

Table 1

1.2 Introduction

| Applicant | SRT Marine Systems plc |
|-------------------------------|--|
| Manufacturer | SRT Marine Systems plc |
| Model Number(s) | VMS-100s |
| Serial Number(s) | EP2-15 |
| Hardware Version(s) | V3 |
| Software Version(s) | 150201.01.xx.xx |
| Number of Samples Tested | 1 |
| Test Specification/Issue/Date | FCC 47 CFR Part 15B: 2018 ISEDC RSS-GEN: Issue 04 (2014-11) |
| Order Number Date | POR007580 06-June-2019 |
| Date of Receipt of EUT | 25-July-2019 |
| Start of Test | 04-September-2019 |
| Finish of Test | 24-September-2019 |
| Name of Engineer(s) | Graeme Lawler |



1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with FCC 47 CFR Part 15B and ISEDC RSS-GEN is shown below.

| Section | Specification Clause | | Test Description | Result | Comments/Base Standard |
|---------------|---|---------|----------------------|--------|------------------------|
| | Part 15B | RSS-GEN | | | |
| Configuration | Configuration and Mode: DC Powered - AIS Transmitter off, 2.4 GHz (WiFi/BT) On, 5 GHz WiFi On | | | | |
| 2.1 | 15.109 | 7.1 | Radiated Disturbance | Pass | Class A Limits Applied |

Table 2



1.4 Declaration of Build Status

Equipment Description

| Technical Description: (Please provide a brief description of the intended use of the equipment) | Class B SOTDMA AIS Transceiver |
|--|--------------------------------|
| Manufacturer: | SRT Marine Systems plc |
| Model: | VMS-100s |
| Part Number: | 429-0002 |
| Hardware Version: | V3 |
| Software Version: | 150201.01.xx.xx |
| FCC ID (if applicable) | UYW-4290002 |
| IC ID (if applicable) | 7075A-4290002A |

Intentional Radiators

| Technology | AIS | WiFi / Bluetooth | WiFi |
|--|-----------|------------------|-------------|
| Frequency Band (MHz) | 156 - 162 | 2400 - 2500 | 5180 - 5825 |
| Conducted Declared Output Power (dBm) | 37 | 15 | 15 |
| Antenna Gain (dBi) | 3 | 0.5 | 0.5 |
| Supported Bandwidth(s) (MHz) | 0.015 | 20 | 20 |
| Modulation Scheme(s) | GMSK | CCK/DSSS | OFDM |
| ITU Emission Designator | 25K0G1B | 12M2GXW | 17M9GXW |
| Bottom Frequency (MHz) | 156.025 | 2400 | 5180 |
| Middle Frequency (MHz) | 159.025 | 2450 | 5502.5 |
| Top Frequency (MHz) | 162.025 | 2500 | 5825 |

Un-intentional Radiators

| Highest frequency generated or used in the device or on which the device operates or tunes | 5825 MHz | |
|--|------------|--|
| Lowest frequency generated or used in the device or on which the device operates or tunes | 136.37 MHz | |
| Class A Digital Device (Use in commercial, industrial or business environment) | | |
| Class B Digital Device (Use in residential environment only) | | |

AC Power Source

| AC supply frequency: | N/A | Hz |
|------------------------------|-----|----|
| Voltage | | V |
| Max current: | | A |
| Single Phase □ Three Phase □ | | |



DC Power Source

| Nominal voltage: | 12 – 24 | V |
|------------------------|---------|---|
| Extreme upper voltage: | 31.2 | V |
| Extreme lower voltage: | 9.6 | V |
| Max current: | 6 | А |

Battery Power Source

| Voltage: | | | V | |
|--|----------------|--|---|--|
| End-point voltage: | | | V (Point at which the battery will terminate) | |
| Alkaline Leclanche Lithium Nickel Cadmium Lead Acid* *(Vehicle regulated) | | | | |
| Other | Please detail: | | | |

Charging

| Can the EUT transmit whilst being charged | Yes 🗆 No 🗆 |
|---|------------|
|---|------------|

Temperature

| Minimum temperature: | -15 | °C |
|----------------------|-----|----|
| Maximum temperature: | 55 | ٦° |

Antenna Characteristics

| Antenna connector | | State impedance | 50 | Ohm | |
|-----------------------------|-------|---------------------|-----------------|-----|-----|
| Temporary antenna connector | | State impedance | | Ohm | |
| Integral antenna \Box | Type: | | State impedance | | dBI |
| External antenna 🖂 | Type: | Marine VHF vertical | State impedance | 3 | dBI |

Ancillaries (if applicable)

| Manufacturer: | Part Number: | |
|---------------|--------------------|--|
| Model: | Country of Origin: | |

I hereby declare that the information supplied is correct and complete.

Name: Abdul Mohammed Position held: Compliance Engineer Date: 09/10/2019



1.5 Product Information

1.5.1 Technical Description

The Equipment Under Test (EUT) was an SRT Marine Systems plc, AIS Class B Transceiver, Model: VMS-100s

A full description and detailed product specification details are available from the manufacturer.



Figure 1 - General View



Figure 2 - Rear View



1.5.2 EUT Port/Cable Identification

| Port | Max Cable Length specified | Usage | Туре | Screened |
|------------------------|----------------------------|---|------------------------------|----------|
| Configuration and Mode | e: DC Powered - AIS Tra | nsmitter off, WiFi on | | |
| VHF Antenna Port | Unlimited | To connect VHF Antenna to AIS Transceiver | PL-259 | Yes |
| GNSS Antenna | Unlimited | Receive of GNSS Data | TNC Coaxial | No |
| DC Power Lead | Unlimited | Supply of Power to EUT | 2-pin Circular Connector | No |
| Serial Cable (NMEA) | Unlimited | Transmission of Serial Data | 12-pin Circular Connector | No |

Table 3

1.5.3 Test Configuration

| Configuration | Description |
|---------------|--|
| DC Powered | The EUT was powered from a 12 V DC external supply (The device can operate at 24 V DC but 12 V DC was considered worst case as this results in the highest current draw). The VHF Antenna Port was connected to a 50 ohm Load. The GNSS Antenna port was connected to a suitable GNSS Antenna. The serial cable was connected to a laptop. |

Table 4

1.5.4 Modes of Operation

| Mode | Description |
|---|--|
| AIS Transmitter off, 2.4 GHz (WiFi/BT) On, 5 GHz WiFi On | The AIS Transmitter was disabled using test commands. The 2.4 GHz WiFi/BT and 5 GHz WiFi was enabled on the EUT but not connected to an access point or paired to another device Transmissions from the 2.4 GHz transmitters were intermittent, this band was notched out during the test. The GNSS receiver was in a state of trying to acquire a position. NMEA data from the EUT was logging on a laptop running Tera-Term. |

Table 5



1.6 Deviations from the Standard

No deviations from the applicable test standard were made during testing.

1.7 EUT Modification Record

The table below details modifications made to the EUT during the test programme.

The modifications incorporated during each test are recorded on the appropriate test pages.

| Modification State Description of Modification still fitted to EUT | | Modification Fitted By | Date Modification Fitted | |
|--|-----------------------------|------------------------|-----------------------------|--|
| Model: VMS-100S: Serial Number: EP2-15 | | | | |
| 0 | As supplied by the customer | Not Applicable | Not Applicable | |

Table 6

1.8 Test Location

TÜV SÜD conducted the following tests at our Fareham Test Laboratory.

| Test Name Name of Engineer(s) Accreditation | | | | | |
|---|--|--|--|--|--|
| Configuration and Mode: DC Powered - AIS Transmitter off, 2.4 GHz (WiFi/BT) On, 5 GHz WiFi On | | | | | |
| Radiated Disturbance Graeme Lawler UKAS | | | | | |

Table 7

Office Address:

Octagon House Concorde Way Segensworth North Fareham Hampshire PO15 5RL United Kingdom



2 Test Details

2.1 Radiated Disturbance

2.1.1 Specification Reference

FCC 47 CFR Part 15B, Clause 15.109 ISEDC RSS-GEN, Clause 7.1

2.1.2 Equipment Under Test and Modification State

VMS-100S, S/N: EP2-15 - Modification State 0

2.1.3 Date of Test

04-September-2019 to 10-September-2019

2.1.4 Test Method

The EUT was set up in a semi-anechoic chamber on a remotely controlled turntable and placed on a non-conductive table 0.8m above a reference ground plane.

For an EUT which could reasonably be used in multiple planes, pre-scans were performed with the EUT orientated in X, Y and Z planes with reference to the ground plane.

A pre-scan of the EUT emissions profile was made at a 3m distance while varying the antenna-to-EUT azimuth and polarisation using a peak detector.

Using a list of the highest emissions detected during the pre-scan along with their bearing and associated antenna polarisation, the EUT was formally measured using a Quasi-Peak, Peak or CISPR Average detector as appropriate.

The readings were maximised by adjusting the antenna height, polarisation and turntable azimuth, in accordance with the specification.

2.1.5 Example Calculation

Below 1 GHz:

Quasi-Peak level (dB μ V/m) at 3m = Receiver level (dB μ V) + 3m Correction Factor (dB) Margin (dB) = Limit (dB μ V/m) – Quasi-Peak level (dB μ V/m)

Above 1 GHz:

CISPR Average level (dB μ V/m) at 3m = Receiver level (dB μ V) + 3m Correction Factor (dB) Margin (dB) = Limit (dB μ V/m) – CISPR Average level (dB μ V/m)

Peak level (dB μ V/m) at 3m = Receiver level (dB μ V) + 3m Correction Factor (dB) Margin (dB) = Limit (dB μ V/m) – Peak level (dB μ V/m)



2.1.6 Example Test Setup Diagram

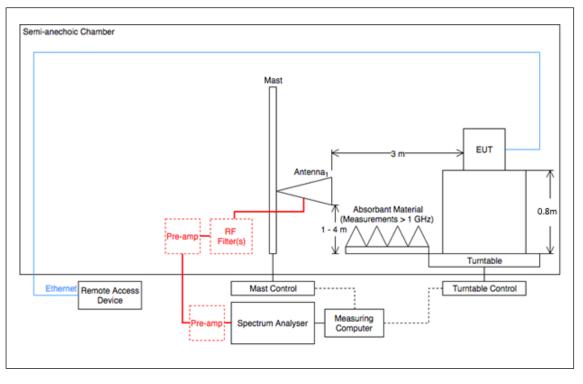


Figure 3 - Example Test Setup

2.1.7 Environmental Conditions

| Ambient Temperature | 16.2 °C |
|---------------------|---------|
| Relative Humidity | 80.0 % |

2.1.8 Specification Limits

| Required Specification Limits, Field Strength (Class A @ 10m) | | | | | |
|---|-----|------|--|--|--|
| Frequency Range (MHz)(μV/m)(dBμV/m) | | | | | |
| 30 to 88 | 90 | 39.1 | | | |
| 88 to 216 | 150 | 43.5 | | | |
| 216 to 960 | 210 | 46.4 | | | |
| Above 960 | 300 | 49.5 | | | |
| Supplementary information: Quasi-peak detector to be used for measurements below 1 GHz CISPR Average detector to be used for measurements above 1 GHz | | | | | |

Peak test limit above 1 GHz is 20 dB higher than the CISPR Average test limit.

Table 8



2.1.9 Test Results

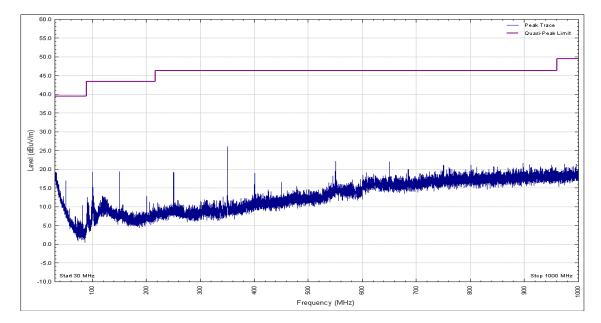
Results for Configuration and Mode: DC Powered - AIS Transmitter off, 2.4 GHz (WiFi/BT) On, 5 GHz WiFi On.

Performance assessment of the EUT made during this test: Pass.

Tested to Class A Test Limits.

Detailed results are shown below.

Highest frequency generated or used within the EUT: 5825 MHz Which necessitates an upper frequency test limit of: 30 GHz



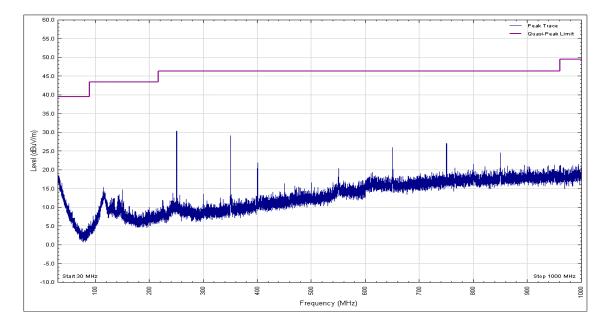
Frequency Range of Test: 30 MHz to 1 GHz - X Orientation

Figure 4 - Graphical Results - Vertical Polarity

| Frequency (MHz) | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|-------------------|-------------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 9





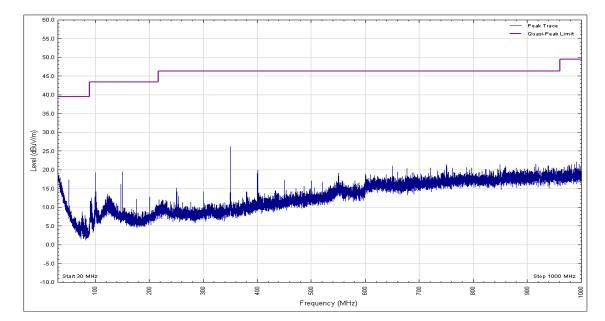
Frequency Range of Test: 30 MHz to 1 GHz - X Orientation

Figure 5 - Graphical Results - Horizontal Polarity

| Frequency (MHz) | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|-------------------|-------------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 10





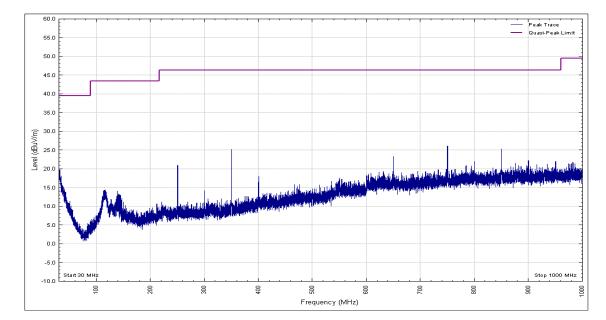
Frequency Range of Test: 30 MHz to 1 GHz - Y Orientation

Figure 6 - Graphical Results - Vertical Polarity

| Frequency (MHz) | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|-------------------|-------------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 11





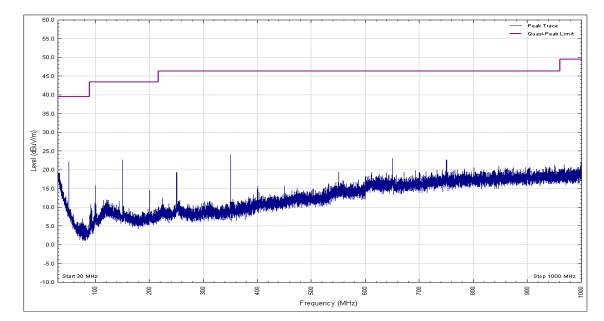
Frequency Range of Test: 30 MHz to 1 GHz - Y Orientation

Figure 7 - Graphical Results - Horizontal Polarity

| Fr | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|----|-----------------------|-------------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 12





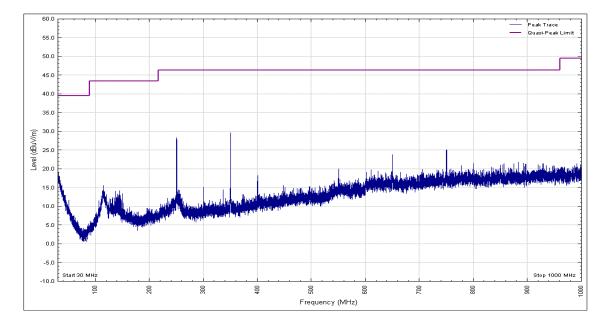
Frequency Range of Test: 30 MHz to 1 GHz - Z Orientation

Figure 8 - Graphical Results - Vertical Polarity

| Frequency (MHz) | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|-------------------|-------------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 13





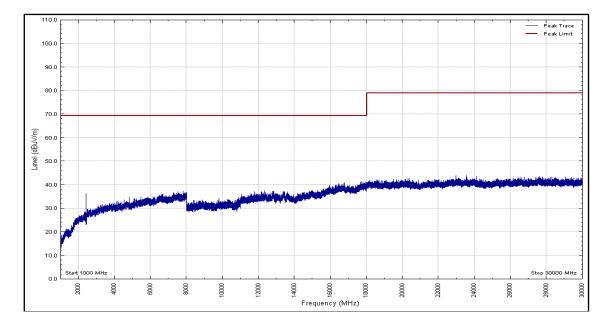
Frequency Range of Test: 30 MHz to 1 GHz - Z Orientation

Figure 9 - Graphical Results - Horizontal Polarity

| Frequency (MHz) | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|-------------------|-------------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 14





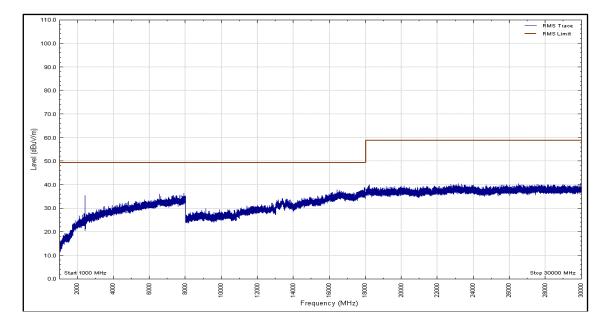
Frequency Range of Test: 1 GHz to 30 GHz - X Orientation Peak

Figure 10 - Graphical Results - Vertical Polarity

| Frequency (MHz) | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|-------------------|-------------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 15





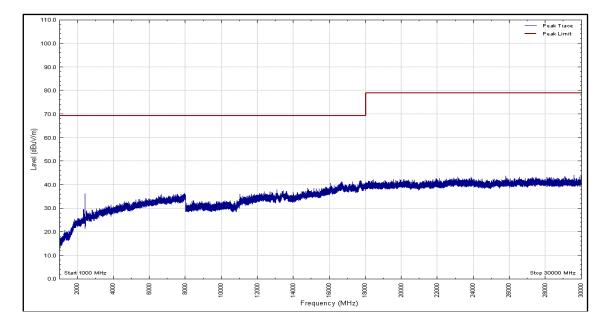
Frequency Range of Test: 1 GHz to 30 GHz - X Orientation Average

Figure 11 - Graphical Results - Vertical Polarity

| Frequency (MHz) | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|-------------------|-------------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 16





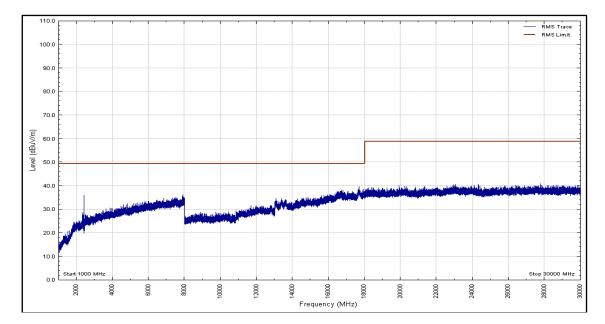
Frequency Range of Test: 1 GHz to 30 GHz - X Orientation Peak

Figure 12 - Graphical Results - Horizontal Polarity

| Frequency (MHz) | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|-------------------|-------------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 17





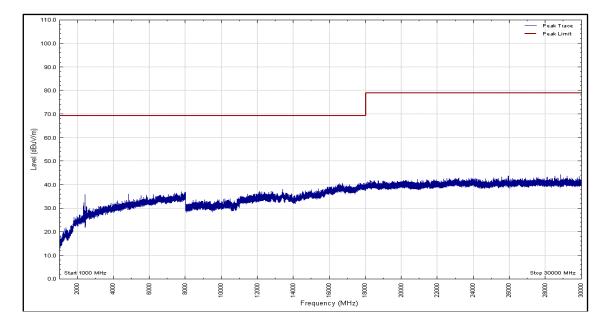
Frequency Range of Test: 1 GHz to 30 GHz - X Orientation Average

Figure 13 - Graphical Results - Horizontal Polarity

| Frequency (MHz) | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|-------------------|-------------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 18





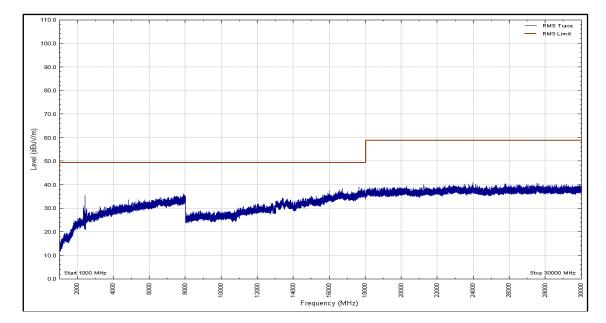
Frequency Range of Test: 1 GHz to 30 GHz - Y Orientation Peak

Figure 14 - Graphical Results - Vertical Polarity

| Frequency (MHz) | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|-------------------|-------------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 19





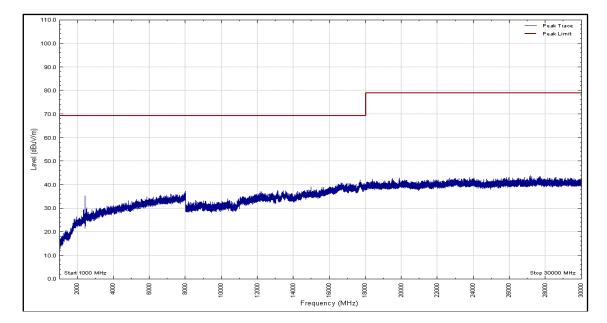
Frequency Range of Test: 1 GHz to 30 GHz - Y Orientation Average

Figure 15 - Graphical Results - Vertical Polarity

| Frequency (MHz) | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|-------------------|-------------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 20





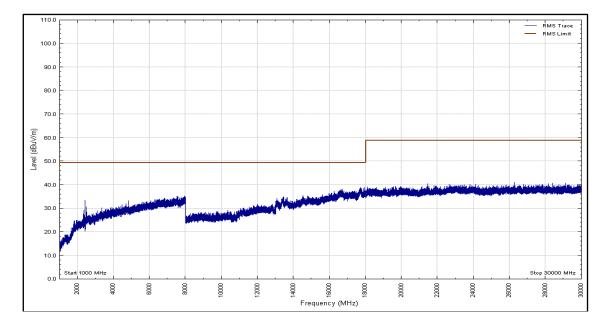
Frequency Range of Test: 1 GHz to 30 GHz - Y Orientation Peak

Figure 16 - Graphical Results - Horizontal Polarity

| Frequency (MHz) | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|-------------------|-------------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 21





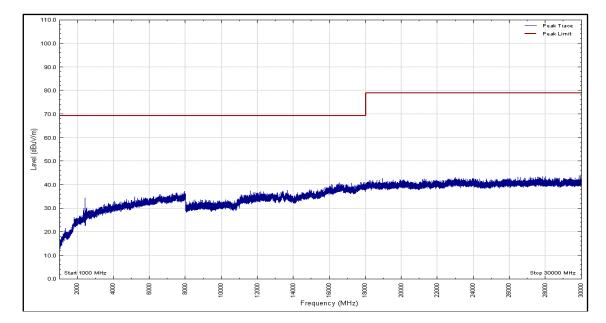
Frequency Range of Test: 1 GHz to 30 GHz - Y Orientation Average

Figure 17 - Graphical Results - Horizontal Polarity

| Fre | equency (MHz) | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----|---------------|-------------------|-------------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | | |

Table 22





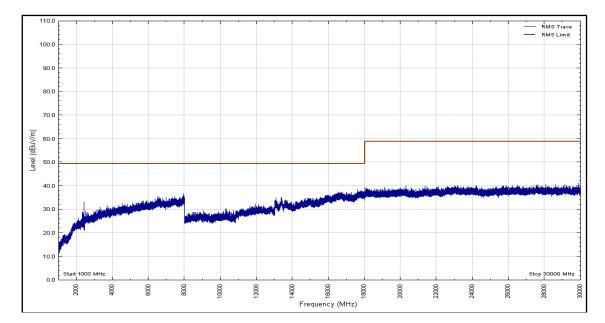
Frequency Range of Test: 1 GHz to 30 GHz - Z Orientation Peak

Figure 18 - Graphical Results - Vertical Polarity

| Frequency (MHz) | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|-------------------|-------------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 23





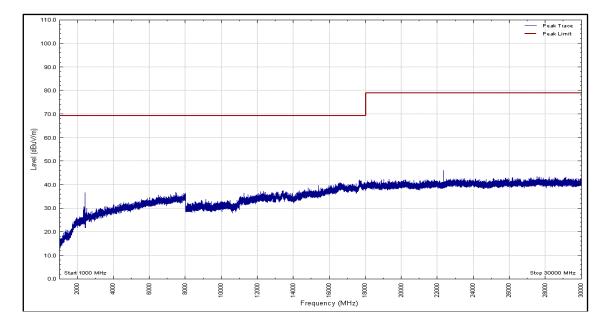
Frequency Range of Test: 1 GHz to 30 GHz - Z Orientation Average

Figure 19 - Graphical Results - Vertical Polarity

| Frequency (MHz) | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|-------------------|-------------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 24





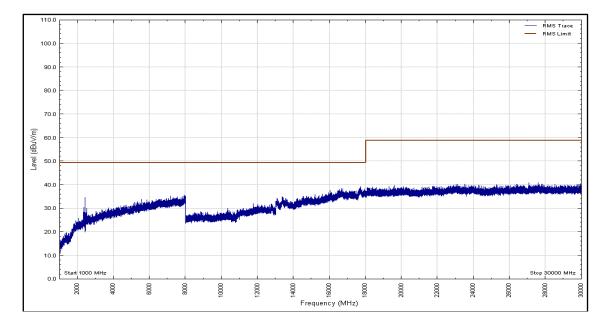
Frequency Range of Test: 1 GHz to 30 GHz - Z Orientation Peak

Figure 20 - Graphical Results - Horizontal Polarity

| Frequency (MHz) | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|-------------------|-------------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 25





Frequency Range of Test: 1 GHz to 30 GHz - Z Orientation Average

Figure 21 - Graphical Results - Horizontal Polarity

| Frequency (MHz) | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|-------------------|-------------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 26





Figure 22 - Test Setup 30 MHz to 1 GHz - X Orientation



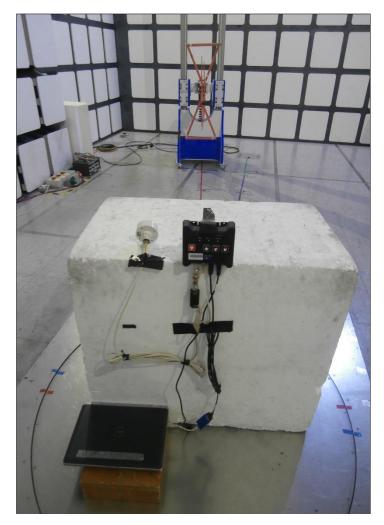


Figure 23 - Test Setup 30 MHz to 1 GHz - Y Orientation





Figure 24 - Test Setup 30 MHz to 1 GHz - Z Orientation





Figure 25 - Test Setup 1 GHz to 18 GHz - X Orientation



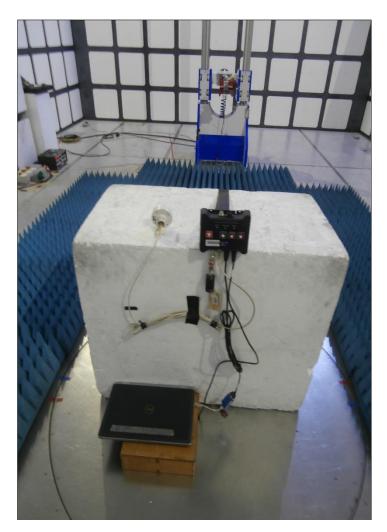


Figure 26 - Test Setup 1 GHz to 18 GHz - Y Orientation



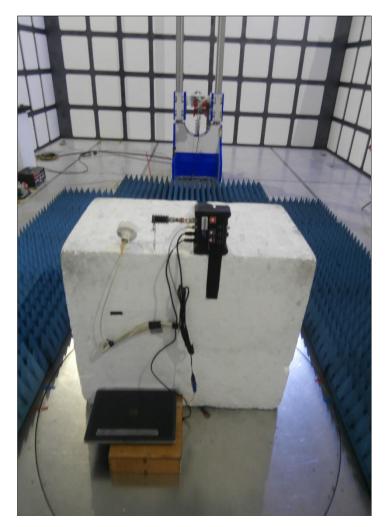


Figure 27 – Test Setup 1 GHz to 18 GHz - Z Orientation





Figure 6 – Test Setup 18 GHz to 30 GHz - X Orientation





Figure 7 – Test Setup 18 GHz to 30 GHz - Y Orientation





Figure 8 – Test Setup 18 GHz to 30 GHz - Z Orientation



2.1.10 Test Location and Test Equipment Used

This test was carried out in EMC Chamber 5.

| Instrument | Manufacturer | Туре No | TE No | Calibration Period (months) | Calibration Due |
|---|---------------------|--|-------|-----------------------------------|-----------------|
| Power Supply Unit | Hewlett Packard | 6282A | 132 | - | TU |
| Termination (50ohm) | Diamond Antenna | DL-30N | 226 | 12 | 14-Dec-2019 |
| Antenna 18-40GHz (Double Ridge Guide) | Link Microtek Ltd | AM180HA-K-TU2 | 230 | 24 | 02-May-2020 |
| Antenna with permanent attenuator (Bilog) | Schaffner | CBL6143 | 287 | 24 | 15-May-2020 |
| Pre-Amplifier | Phase One | PS04-0086 | 1533 | 12 | 08-Feb-2020 |
| 18GHz - 40GHz Pre- Amplifier | Phase One | PSO4-0087 | 1534 | 12 | 05-Feb-2020 |
| Screened Room (5) | Rainford | Rainford | 1545 | 36 | 23-Jan-2021 |
| Turntable Controller | Inn-Co GmbH | CO 1000 | 1606 | - | TU |
| Hygromer | Rotronic | A1 | 2677 | 12 | 20-Feb-2020 |
| Cable 1503 2M 2.92(P)m 2.92(P)m | Rhophase | KPS-1503A-2000- KPS | 4293 | 12 | 26-Oct-2019 |
| 1GHz to 8GHz Low Noise Amplifier | Wright Technologies | APS04-0085 | 4365 | 12 | 25-Oct-2019 |
| Cable (Rx, Km-Km 2m) | Scott Cables | KPS-1501-2000- KPS | 4526 | 6 | 11-Dec-2019 |
| Double Ridged Waveguide Horn Antenna | ETS-Lindgren | 3117 | 4722 | 12 | 05-Mar-2020 |
| Mast Controller | Maturo Gmbh | NCD | 4810 | - | TU |
| Tilt Antenna Mast | Maturo Gmbh | TAM 4.0-P | 4811 | - | TU |
| Double Ridge Broadband Horn Antenna | Schwarzbeck | BBHA 9120 B | 4848 | 12 | 11-Mar-2020 |
| Band Reject Filter - 2.425 GHz | Wainwright | WRCGV14-2390- 2400-2450-2460- 50SS | 5067 | 12 | 02-Oct-2019 |
| 8m N-Type RF Cable | Teledyne | PR90-088-8MTR | 5093 | 12 | 04-Oct-2019 |
| EmX Software | TUV SUD | EmX | 5125 | - | Software |
| 1.5m 40GHz RF Cable | Scott Cables | KPS-1501-2000- KPS | 5127 | 6 | 11-Dec-2019 |
| 3 GHz High pass filter | Wainwright | WHKX12-2580- 3000-18000-80SS | 5219 | 12 | 15-Feb-2020 |
| Test Receiver (ESW) | Rohde & Schwarz | ESW44 | 5351 | 12 | 31-Jul-2020 |

Table 27

TU - Traceability Unscheduled



3 Incident Reports

No incidents reports were raised.



4 Measurement Uncertainty

For a 95% confidence level, the measurement uncertainties for defined systems are:

| Test Name | Measurement Uncertainty |
|----------------------|---|
| Radiated Disturbance | 30 MHz to 1 GHz, Bilog Antenna, ±5.2 dB 1 GHz to 40 GHz, Horn Antenna, ±6.3 dB |

Table 28

Worst case error for both Time and Frequency measurement 12 parts in 10⁶. All measurement uncertainties have been calculated using CISPR guidelines.