

Report on the FCC Testing of the
 Monica Healthcare Ltd
 Interface unit. Model: Novii System Interface Unit
 POD. Model: Novii System Pod
 In accordance with FCC 47 CFR Parts 15 and 18
 (Simultaneous Transmission)



Product Service

Choose certainty.
 Add value.

Prepared for: Monica Healthcare Ltd
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 Unit 8
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FCC ID:
 YOM-6960-MON (Novii Pod) YOM -6961-MON (Novii Interface Unit)

COMMERCIAL-IN-CONFIDENCE

Date: December 2017
 Document Number: 75941097-05 | Issue: 01

| RESPONSIBLE FOR | NAME | DATE | SIGNATURE |
|----------------------|-----------------|------------------|-----------|
| Project Management | Clare Wright | 13 December 2017 | |
| Authorised Signatory | Matthew Russell | 13 December 2017 | |

Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD Product Service 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 Parts 15 and 18 (Simultaneous Transmission). The sample tested was found to comply with the requirements defined in the applied rules.

| RESPONSIBLE FOR | NAME | DATE | SIGNATURE |
|-----------------|---------------|------------------|-----------|
| Testing | Jack Tuckwell | 13 December 2017 | |

FCC Accreditation
 90987 Octagon House, Fareham Test Laboratory

EXECUTIVE SUMMARY

A sample of this product was tested and found to be compliant with FCC 47 CFR Part 15:2016 and FCC 47 CFR Part 18:2016.

| | |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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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 | 13 December 2017 |

Table 1

1.2 Introduction

| | |
|-------------------------------|--------------------------------------------------------|
| Applicant | Monica Healthcare Ltd |
| Manufacturer | Monica Healthcare Ltd |
| Model Number(s) | Interface and Pod |
| Serial Number(s) | Interface: TA1772 Pod: AA5425, AA5431 |
| Hardware Version(s) | Interface Rev L Pod Rev H |
| Software Version(s) | Interface V2.71 Pod V2.54 |
| Number of Samples Tested | 1 interface and 1 pod |
| Test Specification/Issue/Date | FCC 47 CFR Parts 15: 2016 FCC 47 CFR Parts 18: 2016 |
| Order Number | Issue 2 501559 |
| Date | 30-November-2017 |
| Date of Receipt of EUT | 04-December-2017 |
| Start of Test | 07-December-2017 |
| Finish of Test | 07-December-2017 |
| Name of Engineer(s) | Jack Tuckwell |
| Related Document(s) | ANSI C63.10 (2013) |



Product Service

1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with FCC 47 CFR Parts 15 and 18 is shown below.

| Section | Specification Clause | | Test Description | Result | Comments/Base Standard |
|----------------------------------------------------------------|--------------------------|-------------|------------------------------------------------------------|--------|------------------------|
| | FCC Part 15 | FCC Part 18 | | | |
| Configuration and Mode: Wireless Charging + Bluetooth Transmit | | | | | |
| 2.1 | 15.247 (d) and 15.205 | 18.305(b) | Radiated Spurious Emissions (Simultaneous Transmission) | Pass | ANSI C63.10 |

Table 2



1.4 Application Form

| EQUIPMENT DESCRIPTION | |
|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model Name/Number | Novii Interface Unit |
| Part Number | 107-PT-001 |
| Hardware Version | Rev L |
| Software Version | Rev 2.71 |
| FCC ID (if applicable) | YOM-6961_MON |
| Industry Canada ID (if applicable) | |
| Technical Description (Please provide a brief description of the intended use of the equipment) | The Novii System Interface Unit is part of the Novii Wireless Patch System: a Maternal/Fetal monitor that records Fetal heart rate, Maternal Heart Rate and Uterine Contractions from a pregnant subject. |

| INTENTIONAL RADIATORS | | | | | | | | | |
|---------------------------------|----------------------|---------------------------------------|--------------------|-------------------------------|----------------------|-------------------------|---------------------|--------|------|
| Technology | Frequency Band (MHz) | Conducted Declared Output Power (dBm) | Antenna Gain (dBi) | Supported Bandwidth (s) (MHz) | Modulation Scheme(s) | ITU Emission Designator | Test Channels (MHz) | | |
| | | | | | | | Bottom | Middle | Top |
| Bluetooth (Left Side) | 2042-2408 | 10 | 1.18 | 1 MHz/ channel | V2.1+ EDR | 1M00F1D | 2402 | 2440 | 2480 |
| Bluetooth (Right Side) | 2042-2408 | 10 | 3.24 | 1 MHz/ channel | V2.1+ EDR | 1M00F1D | 2402 | 2440 | 2480 |
| QI Wireless Charger transmitter | 0.110 to 0.205 | 37 | | 0.095 | Frequency Modulation | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

| UN-INTENTIONAL RADIATOR | |
|--------------------------------------------------------------------------------------------|-------|
| Highest frequency generated or used in the device or on which the device operates or tunes | 26MHz |
| Lowest frequency generated or used in the device or on which the device operates or tunes | 0Hz |

| Power Source | | | |
|----------------------------------------|-----------------|-------------|---------------------------------------------------------------------|
| AC | Single Phase | Three Phase | Nominal Voltage |
| | x | | 100-240 |
| External DC | Nominal Voltage | | Maximum Current |
| | 5V | | 2.5A |
| Battery | Nominal Voltage | | Battery Operating End Point Voltage |
| | N/A | | |
| Can EUT transmit whilst being charged? | | | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |



| EXTREME CONDITIONS | | | | | |
|---------------------|----|----|---------------------|----|----|
| Maximum temperature | 30 | °C | Minimum temperature | 10 | °C |

| Ancillaries |
|-----------------------------------------------------------------|
| Please list all ancillaries which will be used with the device. |
| Novii System Pod |

| ANTENNA CHARACTERISTICS | | | | |
|-------------------------------------|-----------------------------|------|----------------------------|-----|
| <input type="checkbox"/> | Antenna connector | | State impedance | Ohm |
| <input type="checkbox"/> | Temporary antenna connector | | State impedance | Ohm |
| <input checked="" type="checkbox"/> | Integral antenna | Type | Ceramic (Antenova SRCW004) | |
| <input type="checkbox"/> | External antenna | Type | | |

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

Name: Jean-Francois Pieri

Position held: CTO

Date: 12th December 2017



| EQUIPMENT DESCRIPTION | |
|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model Name/Number | Novii System Interface Unit / Novii System Pod |
| Part Number | 107-PT-001 / 107-PT-003 |
| Hardware Version | Interface Rev_L / Pod Rev_H |
| Software Version | Interface v2.71 / Pod v2.54 |
| FCC ID (if applicable) | Interface: YOM-6961-MON Pod: YOM-6960-MON |
| Industry Canada ID (if applicable) | N/A |
| Technical Description (Please provide a brief description of the intended use of the equipment) | The Novii Wireless Patch System is a small, reliable, accurate intrapartum Maternal/Fetal monitor. It monitors the Maternal and Fetal heart rate and Uterine Contractins during labour and delivery. |

| EQUIPMENT SUPPLIED | |
|----------------------------------------------------------------------|-------------------------------------|
| WPT Source | <input type="checkbox"/> |
| WPT Client | <input type="checkbox"/> |
| WPT System (Client and source designed to work exclusively together) | <input checked="" type="checkbox"/> |

| WPT SOURCE | | |
|-------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> | Type 1 | No intelligent communication transmitted wirelessly |
| <input checked="" type="checkbox"/> | Type 2 | Transmission is modulated including load modulation techniques where: <ol style="list-style-type: none"> 1. Fundamental is < 490 kHz and ; 2. All emissions are > 40 dB below RSS-GEN field strength limits. |
| <input type="checkbox"/> | Type 3 | Neither type 1 or type 2, but uses some form of modulation to transmit intelligent communication. |
| Is the device intended for us in any of the following?: | | |
| <input type="checkbox"/> | High power WPT device (e.g charging electric vehicles) | |
| <input type="checkbox"/> | WPT over a distance of > 10 cm | |
| <input checked="" type="checkbox"/> | Medical Device | |
| <input type="checkbox"/> | WPT source operating at a frequency > 400 MHz | |
| Does the device support power management transfer? | | Yes |
| Can the source and client operate at different separation distances? | | No |
| Minimum Distance: | 5 mm | Maximum Distance: 5 mm |
| Does the EUT contain any other wireless modules (excluding WPT device)? | | Yes |
| Can the device transmit secondary frequencies? | | Yes Bluetooth |
| State Frequencies: | 2402 to 2480MHz | |

| WPT SOURCE DESIGN | |
|-------------------------------------|--------------------------------------------------------|
| <input type="checkbox"/> | Single fixed power transfer zone – single client |
| <input checked="" type="checkbox"/> | Multiple fixed power transfer zone – single client |
| <input type="checkbox"/> | Multiple non-fixed power transfer zone – single client |
| <input type="checkbox"/> | Multiple power transfer zone – multiples clients |



| POWER SOURCE | | | |
|-------------------------------------------------------|--------------------------|--------------------------|-------------------------------|
| <input type="checkbox"/> | AC mains | State voltage | |
| | AC supply frequency (Hz) | | |
| | VAC | | |
| | Max Current | | |
| | Hz | | |
| <input type="checkbox"/> | Single phase | <input type="checkbox"/> | Three phase |
| And / Or | | | |
| <input checked="" type="checkbox"/> | External DC supply | | |
| | Nominal voltage | 5 V | Max Current 2.5 A |
| | Extreme upper voltage | 5.125 V | |
| | Extreme lower voltage | 4.875 V | |
| Battery | | | |
| <input type="checkbox"/> | Nickel Cadmium | <input type="checkbox"/> | Lead acid (Vehicle regulated) |
| <input type="checkbox"/> | Alkaline | <input type="checkbox"/> | Leclanche |
| <input type="checkbox"/> | Lithium | <input type="checkbox"/> | Other Details: |
| | Volts nominal. | | |
| End point voltage as quoted by equipment manufacturer | | | V |

| FREQUENCY INFORMATION | | | |
|-----------------------------------------|---------------|-----|--------------------------------|
| Frequency Range | 0.11 to 0.205 | MHz | |
| Channel Spacing (where applicable) | | | |
| Receiver Frequency Range (if different) | to | MHz | |
| Channel Spacing (if different) | | | |
| Test Frequencies* | Bottom | MHz | Channel Number (if applicable) |
| | Middle | MHz | Channel Number (if applicable) |
| | Top | MHz | Channel Number (if applicable) |
| Intermediate Frequencies | | MHz | |
| Highest Internally Generated Frequency: | | MHz | |

| POWER CHARACTERISTICS | | | |
|----------------------------------|---|-----------------------------------------|-----------------------------|
| Maximum TX power | 5 | W | |
| Minimum TX power | | W (if variable) | |
| Is transmitter intended for: | | | |
| Continuous duty | | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Intermittent duty | | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| If intermittent state DUTY CYCLE | | | |
| Transmitter ON | | seconds | |
| Transmitter OFF | | seconds | |



| ANTENNA CHARACTERISTICS | | | |
|--------------------------|-----------------------------|------|---------------------|
| <input type="checkbox"/> | Antenna connector | | State impedance Ohm |
| <input type="checkbox"/> | Temporary antenna connector | | State impedance Ohm |
| <input type="checkbox"/> | Integral antenna | Type | State impedance dBi |
| <input type="checkbox"/> | External antenna | Type | State impedance dBi |

| MODULATION CHARACTERISTICS | | | |
|-------------------------------------------|-----------|-------------------------------------|----------------------------------------------------------|
| <input type="checkbox"/> | Amplitude | <input checked="" type="checkbox"/> | Frequency |
| <input type="checkbox"/> | Phase | <input type="checkbox"/> | Other (please provide details): |
| Can the transmitter operate un-modulated? | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |

| CLASS OF EMISSION USED | |
|----------------------------------------------------------|--|
| ITU designation or Class of Emission: | |
| 1 | |
| (if applicable) 2 | |
| (if applicable) 3 | |
| If more than three classes of emission, list separately: | |

| BATTERY POWER SUPPLY | |
|----------------------|----------------------------|
| Model name/number | Identification/Part number |
| Manufacturer | Country of Origin |

| ANCILLARIES (If applicable) | |
|-----------------------------|----------------------------|
| Model name/number | Identification/Part number |
| Manufacturer | Country of Origin |

| EXTREME CONDITIONS | | | |
|-----------------------------|-------------|----|-------------------------------|
| Extreme test voltages (Max) | 5.125 / 4.2 | V | Extreme test voltages (Mix) V |
| Nominal DC Voltage | 5/4.2 | V | DC Maximum Current 2.5 A |
| Maximum temperature | 43 | °C | Minimum temperature 10 °C |

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

Name: Simon Branson
 Date: 08/12/17

Position held: Engineering Manager



1.5 Product Information

1.5.1 Technical Description

The Monica Novii POD is an intrapartum Maternal/Fetal Monitor that non-invasively measures and displays fetal heart rate (FHR), uterine activity (UA) and maternal heart rate (MHR).

The Novii POD acquires and displays the FHR tracing from abdominal surface electrodes that pick up the fetal ECG (fECG) signal. Using the same surface electrodes, the POD also acquires and displays the UA tracing from the uterine electromyography (EMG) signal and the MHR tracing from the maternal ECG signal (mECG).

The POD is indicated for use on women who are at >36 completed weeks, in labor, with singleton pregnancies, using surface electrodes on the maternal abdomen.

The Novii Patch is an accessory to the Novii POD that connects directly to the Novii POD and contains the surface electrodes that attach to the abdomen. The Novii Interface is an accessory to the Novii POD which provides a means of interfacing the wireless output of the Novii POD to the transducer inputs of a Maternal/Fetal Monitor.

The Novii Interface enables signals collected by the Novii POD to be printed and displayed on a Maternal/Fetal Monitor and sent on to a central network, if connected.

The Novii Interface is the WPT transmitter and was tested with the Novii POD which is a WPT client only device.

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 |
|-----------------------|-------------------------------------------------|------------------------|--------------------------|
| Serial Number: TA1772 | | | |
| 0 | As supplied by the customer | Not Applicable | Not Applicable |
| Serial Number: AA5425 | | | |
| 0 | As supplied by the customer | Not Applicable | Not Applicable |

Table 3



Product Service

1.8 Test Location

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

| Test Name | Name of Engineer(s) | Accreditation |
|----------------------------------------------------------------|---------------------|---------------|
| Configuration and Mode: Wireless Charging + Bluetooth Transmit | | |
| Radiated Spurious Emissions (Simultaneous Transmission) | Jack Tuckwell | UKAS |

Table 4

Office Address:

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



2 Test Details

2.1 Radiated Spurious Emissions (Simultaneous Transmission)

2.1.1 Specification Reference

FCC 47 CFR Part 15, Clause 15.247 (d) and 15.205
FCC 47 CFR Part 18, Clause 18.305(b)

2.1.2 Equipment Under Test and Modification State

Interface, S/N: TA1772 - Modification State 0
Pod, S/N: AA5425 - Modification State 0

2.1.3 Date of Test

07-December-2017

2.1.4 Test Method

The test was performed in accordance with ANSI C63.10, clauses 6.5 and 6.6.

2.1.5 Environmental Conditions

Ambient Temperature 18.1 °C
Relative Humidity 41.0 %

2.1.6 Test Results

Wireless Charging + Bluetooth Transmit

The EUT was configured for simultaneous transmission in the following mode of operation:

| Technology | Frequency Band | Channel Frequency |
|----------------------|------------------------|-------------------|
| Wireless Charging | 100 kHz to 300 kHz | 172 kHz |
| Bluetooth (GFSK/DH5) | 2400 MHz to 2483.5 MHz | 2441 MHz |

Table 5 - Modes of Operation

The Interface and POD were both configured for Bluetooth transmissions at maximum power on 2441 MHz. The Interface wireless charger was configured in a test mode to output at maximum amplitude. The POD was placed on the Interface unit to exercise the WPT.

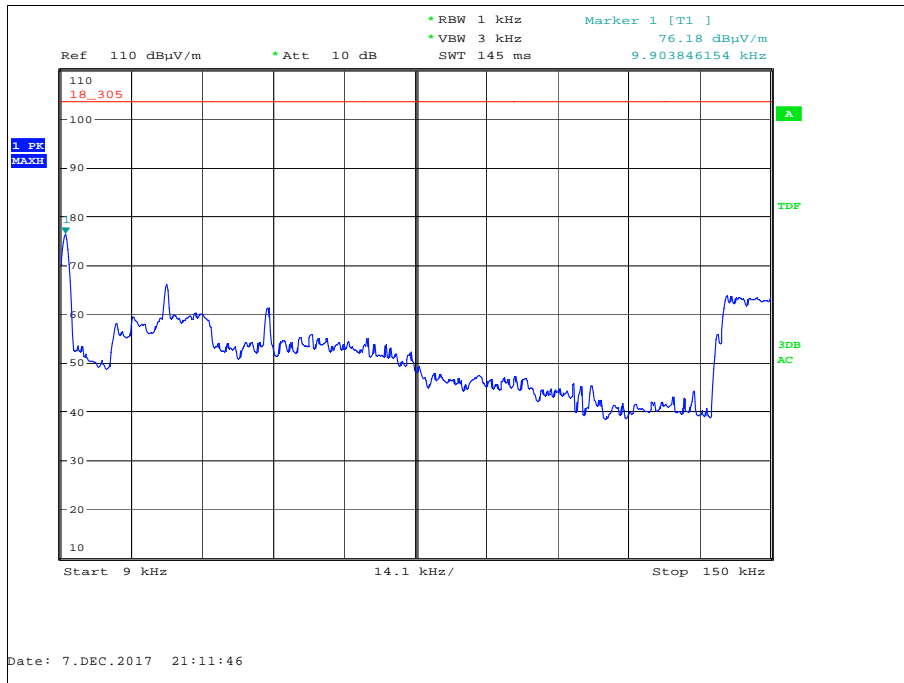


Figure 1 – 9 kHz to 150 kHz - Horizontal and Vertical

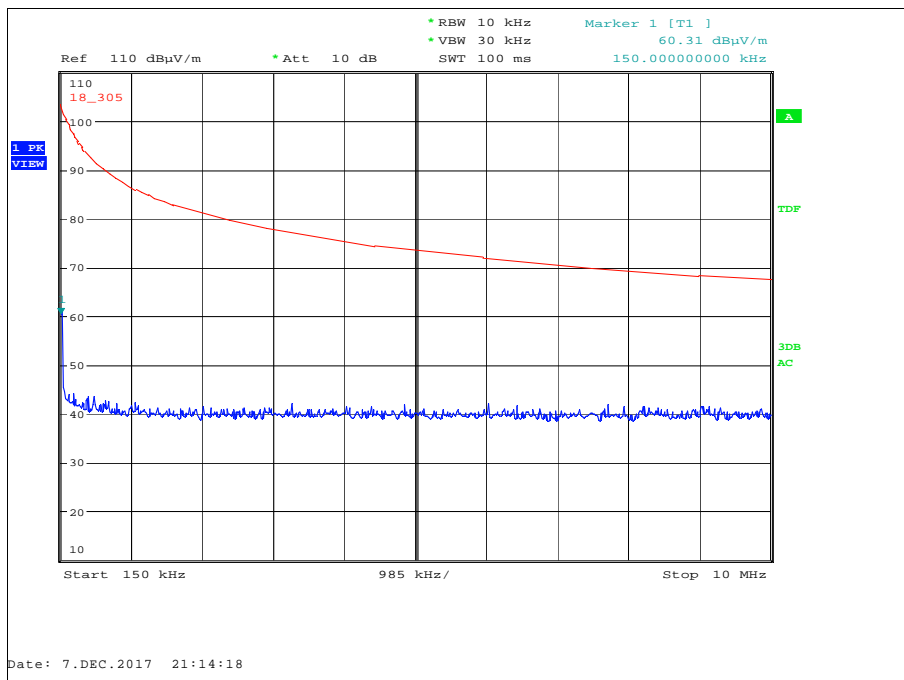


Figure 2 – 150 kHz to 10 MHz - Horizontal and Vertical

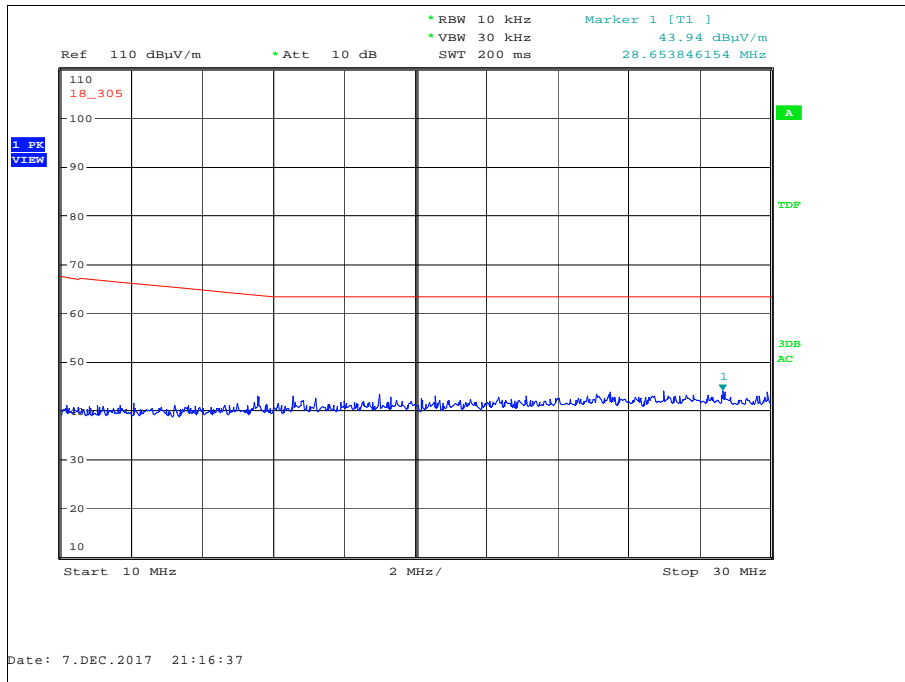


Figure 3 – 10 MHz to 30 MHz - Horizontal and Vertical



| Frequency (MHz) | QP Level (dBuV/m) | QP Limit (dBuV/m) | QP Margin (dBuV/m) | Angle(Deg) | Height(m) | Polarity |
|-----------------|-------------------|-------------------|--------------------|------------|-----------|------------|
| 52.724 | 32.1 | 40.0 | -7.9 | 360 | 1.00 | Vertical |
| 163.096 | 40.5 | 43.5 | -3.0 | 211 | 1.00 | Vertical |
| 295.891 | 39.4 | 46.0 | -6.6 | 245 | 1.18 | Horizontal |
| 509.438 | 29.1 | 46.0 | -16.9 | 28 | 1.00 | Vertical |
| 690.434* | 48.3 | | | 159 | 1.71 | Vertical |
| 887.668* | 49.0 | | | 253 | 1.73 | Horizontal |

Table 6 - 30 MHz to 1 GHz Emissions Results

*Emission is above -6 dB of the limit in the restricted band of 46 dB μ V/m (Quasi-Peak) however the frequency does not fall in a restricted band and therefore the limit is -20 dBc of which there is more than 6 dB margin hence the emission was not further investigated.

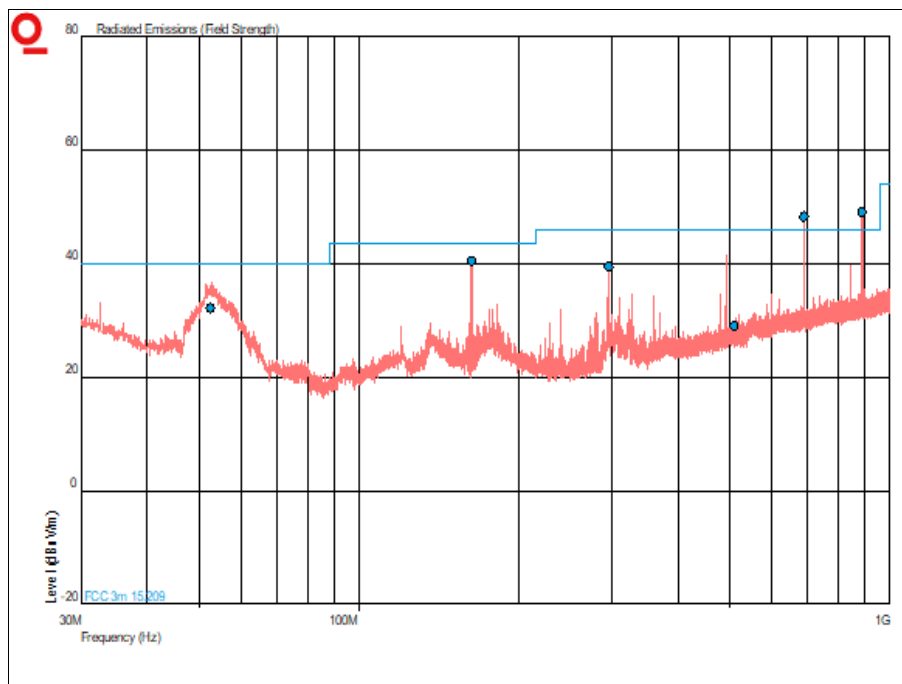


Figure 4 - 30 MHz to 1 GHz - Horizontal and Vertical



| Frequency (GHz) | Result ($\mu\text{V}/\text{m}$) | | Limit ($\mu\text{V}/\text{m}$) | | Margin ($\mu\text{V}/\text{m}$) | |
|-----------------|-----------------------------------|---------|----------------------------------|---------|-----------------------------------|---------|
| | Peak | Average | Peak | Average | Peak | Average |
| 1.085 | 54.82 | 50.17 | 74.00 | 54.00 | 19.18 | 3.83 |
| 1.282* | | | | | | |
| 4.88 | 54.97 | 46.80 | 74.00 | 54.00 | 19.03 | 7.20 |
| 7.3195 | 56.19 | 47.02 | 74.00 | 54.00 | 17.81 | 6.98 |

Table 7 - 1 GHz to 25 GHz Emissions Results

*Emission is above -6 dB of the limit in the restricted band of 74 dB $\mu\text{V}/\text{m}$ (Peak) or 54 dB $\mu\text{V}/\text{m}$ (Average) however the frequency does not fall in a restricted band and therefore the limit is -20 dBc of which there is more than 6 dB margin hence the emission was not further investigated.

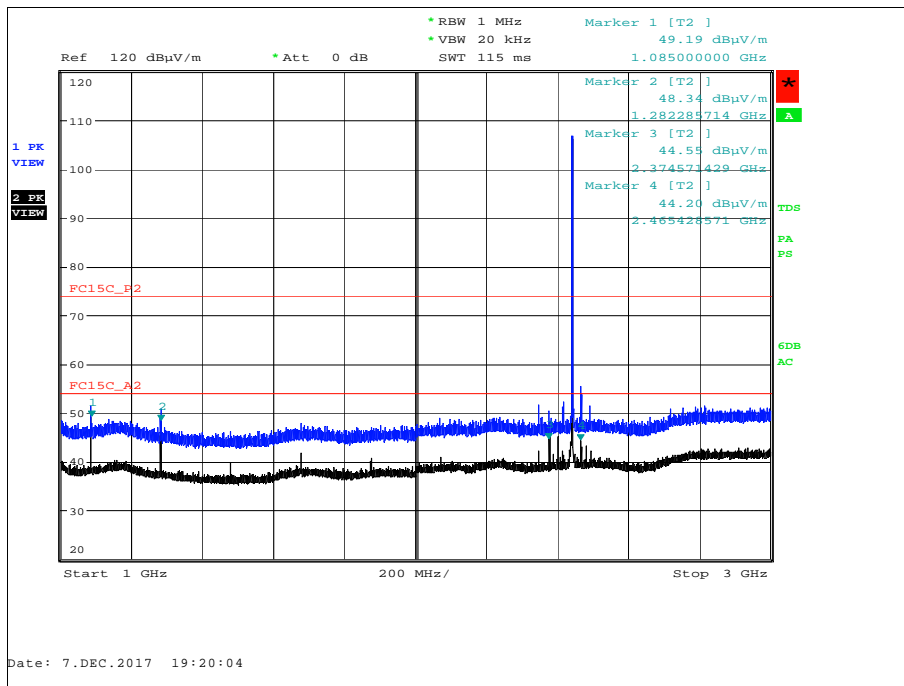


Figure 5 - 1 GHz to 3 GHz - Horizontal and Vertical

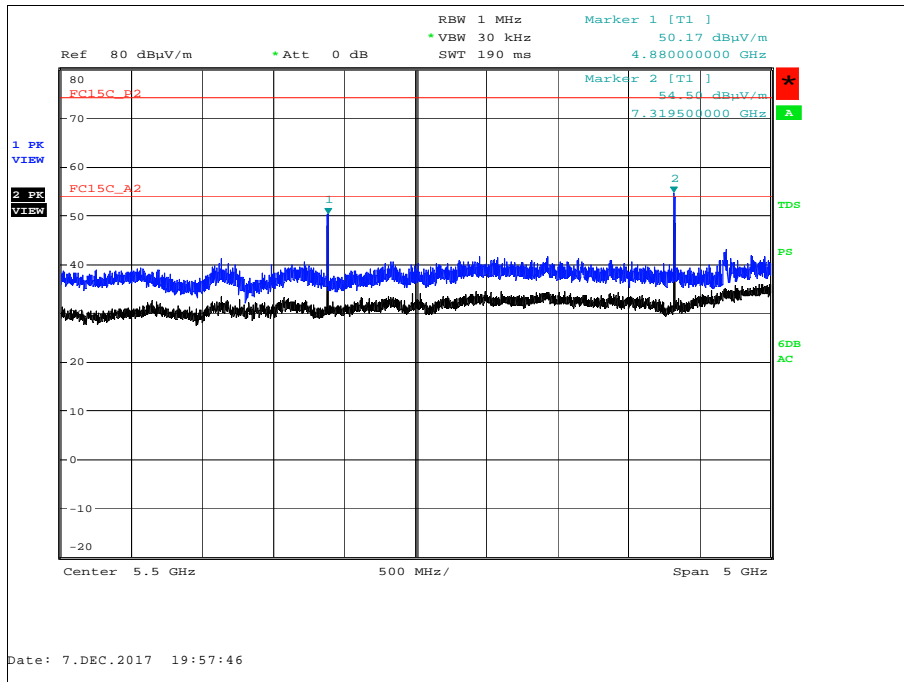


Figure 6 - 3 GHz to 8 GHz - Horizontal and Vertical

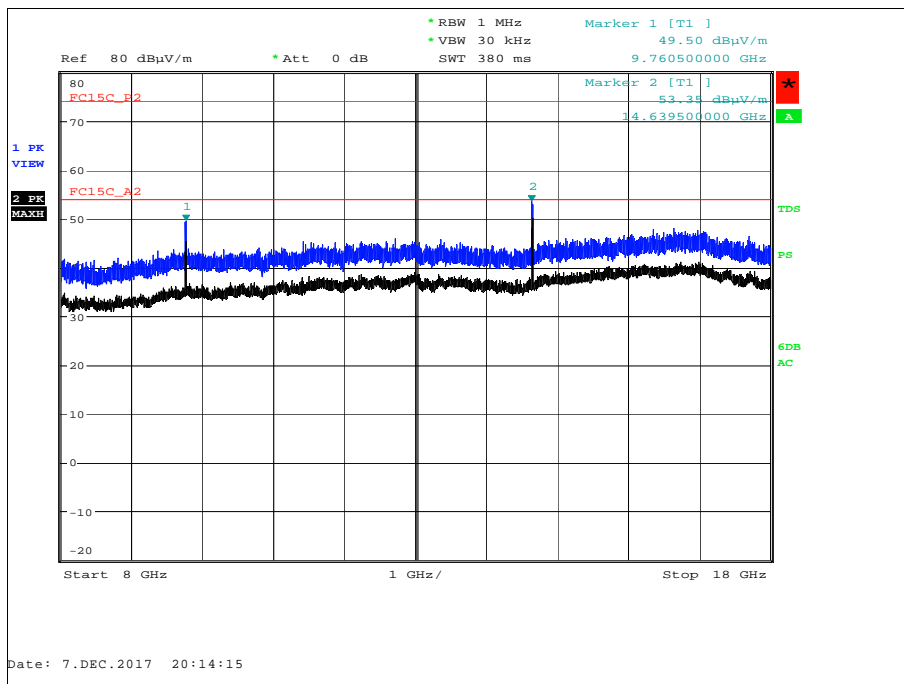


Figure 7 - 8 GHz to 18 GHz - Horizontal and Vertical

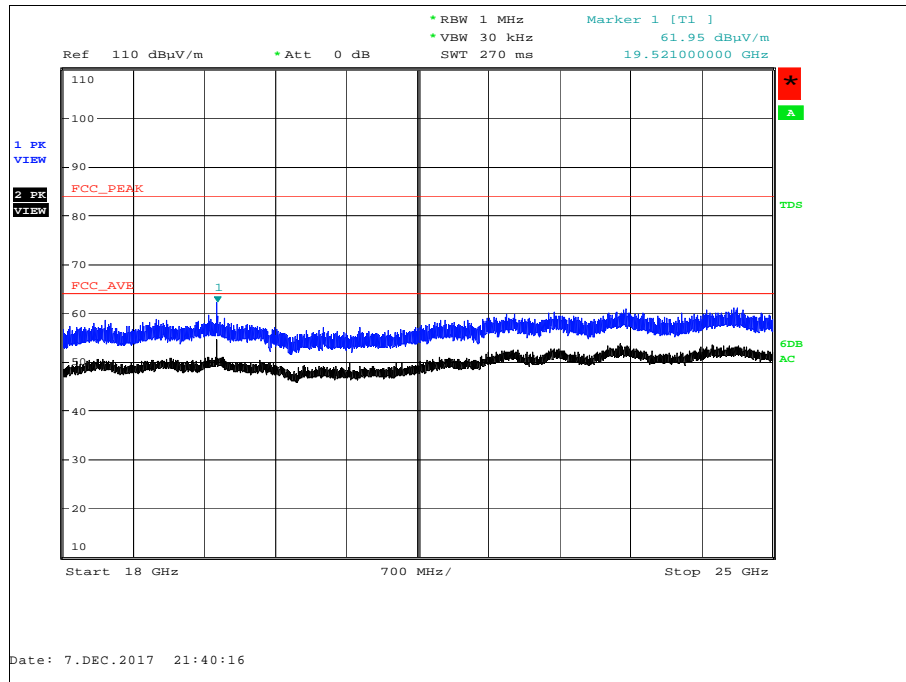


Figure 8 - 18 GHz to 25 GHz - Horizontal and Vertical

FCC 47 CFR Parts 15.247(d), 15.205, 18.305(b)

The least stringent limits from the applicable rule parts were used to determine compliance for Radiated Emissions testing of multiple transmission sources.

The least stringent applicable limit was:

| Rule Part | Limit |
|-----------------|------------------------------------------------|
| Part 15.247 (d) | -20 dBc |
| Part 15.205 | Peak: 74 dBμV/m at 3m, Average 54 dBμV/m at 3m |
| Part 18.302(b) | 15 μV/m at 300m |

Table 8 - Limit Table



2.1.7 Test Location and Test Equipment Used

This test was carried out in EMC Chamber 5.

| Instrument | Manufacturer | Type No | TE No | Calibration Period (months) | Calibration Due |
|---------------------------------------|---------------------|-------------------|-------|-----------------------------|-----------------|
| Antenna (Bilog) | Schaffner | CBL6143 | 287 | 24 | 18-Apr-2018 |
| Antenna (Active Loop, 9kHz-30MHz) | Rohde & Schwarz | HFH2-Z2 | 333 | 24 | 09-Dec-2018 |
| Antenna 18-40GHz (Double Ridge Guide) | Q-Par Angus Ltd | QSH 180K | 1511 | 24 | 07-Dec-2018 |
| Pre-Amplifier | Phase One | PS04-0086 | 1533 | 12 | 31-Jul-2018 |
| Screened Room (5) | Rainford | Rainford | 1545 | 36 | 20-Dec-2017 |
| Turntable Controller | Inn-Co GmbH | CO 1000 | 1606 | - | TU |
| Hygrometer | Rotronic | HYGROPALM 1 | 2338 | 12 | 24-Oct-2018 |
| Cable (N-N, 8m) | Rhophase | NPS-2302-8000-NPS | 3248 | 12 | 02-May-2018 |
| Compliance 5 Emissions | Schaffner | C5e Software | 3275 | - | Software |
| EMI Test Receiver | Rohde & Schwarz | ESU40 | 3506 | 12 | 22-Nov-2018 |
| Tilt Antenna Mast | matur GmbH | TAM 4.0-P | 3916 | - | TU |
| Mast Controller | matur GmbH | NCD | 3917 | - | TU |
| 1GHz to 8GHz Low Noise Amplifier | Wright Technologies | APS04-0085 | 4365 | 12 | 18-Oct-2018 |
| Cable (Rx, Km-Km 2m) | Scott Cables | KPS-1501-2000-KPS | 4526 | 6 | 22-May-2018 |
| Double Ridged Waveguide Horn Antenna | ETS-Lindgren | 3117 | 4722 | 12 | 17-Feb-2018 |
| Double Ridge Broadband Horn Antenna | Schwarzbeck | BBHA 9120 B | 4848 | 12 | 17-Feb-2018 |

Table 9

TU - Traceability Unscheduled



3 Measurement Uncertainty

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

| Test Name | Measurement Uncertainty |
|---------------------------------------------------------|----------------------------------------------------------------|
| Radiated Spurious Emissions (Simultaneous Transmission) | 30 MHz to 1 GHz: ± 5.2 dB 1 GHz to 40 GHz: ± 6.3 dB |

Table 10