

**ELECTROMAGNETIC COMPATIBILITY
SUPPLIER'S DECLARATION OF CONFORMITY (SDoC)
to
47 CFR PART 15, SUBPART B**

Tested For: Tait International Ltd
Test Sample: TBCB2X
Model Number: TBCB2X
Serial Number: 18278398

Report Number: S180815-1

Date of Issue: 19 September 2018

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ELECTROMAGNETIC COMPATIBILITY SUPPLIER'S DECLARATION OF CONFORMITY (SDoC)

47 CFR PART 15, SUBPART B

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ELECTROMAGNETIC COMPATIBILITY CERTIFICATE OF COMPLIANCE

Device under Test: TBCB2X
Model Number: TBCB2X
Serial Number: 18278398

Manufacturer: Tait International Limited

Tested for: Tait International Limited
Address: 245 Wooldridge Road, Christchurch, 8051.
New Zealand

Contact: Mr Marcos Louzada
Phone: +64 3 358 0309

Email: Marcos.louzada@taitradio.com

Responsible Party: Signature _____
(located in US) Company _____

Standards: **47 CFR Part 15** – Radio Frequency Devices
Subpart B – Unintentional Radiators

ANSI C63.4: 2014 *American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz*

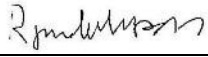
Result: The Test Sample complied with the applicable requirements of the above standards. Refer to Report S180815-1 for full details

Test Dates: 3rd September 2018 to 4th September 2018

Issued by: [EMC Technologies Pty. Ltd.](#),
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Phone: +61 2 9624 2777, Web: www.emctech.com.au

Issue Date: 19 September 2018

Test Engineers:  **Rheyjane Zano**  **James Guo**

Authorised Signatory:  **Robert Middleton**
Sydney Branch Manager
EMC TECHNOLOGIES PTY. LTD.



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47 CFR PART 15, SUBPART B

1.0 INTRODUCTION

This report details the results of Electromagnetic Interference (EMI) tests performed on the TBCB2X. The measurements were made in accordance with:

- Federal Communications Commission (FCC) regulations as detailed in Title 47 CFR, Part 15 Subpart B for a Class B device, unintentional radiator.

The results and technical details of the test sample are detailed in this report. The test sample was found to comply with the Class B limits.

The test sample was provided by the Client. The results herein apply only to the test sample.

1.1 Test Procedure

Emission measurements were performed in accordance with the procedures of ANSI C63.4: 2014. Radiated emissions tests were performed at a distance of 3 metres from the EUT.

1.2 Summary of Test Results

Test results and procedures were performed in accordance with the following Federal Communications Commission (FCC) standards/regulations:

FCC 15B

15.107	Conducted Emissions: Tested on Telecom Line	0.15-30 MHz	Complies Class B, margin of greater than 10dB.
15.109	Radiated Emissions:	30-1000 MHz	Complies Class B, margin of at least 7.4dB.
15.109	Radiated Emissions: Peak Measurements Average Measurements	Above 1 GHz	Complies Class B, margin of greater than 10dB. Complies Class B, margin of at least 3.4dB*.

* Within measurement uncertainty. Results are below the limit therefore comply with 15.109/107 as the laboratory measurement uncertainty is below the ANSI requirement. Refer to section 7.0.

The measurement procedure applied was in accordance with ANSI C63.4: 2014. The instrumentation conformed to the requirements of ANSI C63.2: 2016.



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2.0 GENERAL INFORMATION

(Information supplied by the Client)

The Equipment Under Test (EUT) was identified as follows:

Manufacturer	:	Tait International Limited
Device	:	TBCB2X
Model Number	:	TBCB2X
Serial Number	:	18278398
Operating Band	:	136-156MHz
Equipment Type	:	Unintentional Radiator

2.1 Description supplied by Client

The Device under test is a Base Station with Receive Mode only.

2.2 Operating Conditions

The test sample was operated in accordance with the standard and the Customers testing requirements.

2.3 Support Equipment

No support equipment was required.

2.4 Modifications

No modifications were required on the EUT in order to comply with the standard.



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2.5 Test Facility

2.5.1 General

Measurements were performed at EMC Technologies' laboratory in Seven Hills, NSW, 2147 Australia.

EMC Technologies Pty Ltd has been accredited as a Conformity Assessment Body (CAB) by Australian Communications and Media Authority (ACMA) under the APECTEL MRA and is designated to perform compliance testing on equipment subject to Supplier's Declaration of Conformity (SDoC) and Certification under Parts 15 and 18 of the FCC Commission's rules – **Designation number AU0001**.

2.5.2 NATA Accreditation

NATA is the Australian National laboratory accreditation body and has accredited EMC Technologies to operate to the IEC/ISO17025 requirements. A major requirement for accreditation is the assessment of the company and its personnel as being technically competent in testing to the standards. This requires fully documented test procedures, continued calibration of all equipment to the National Standard at the National Measurements Institute (NMI) and an internal quality system to ISO 17025. NATA is an ILAC member and has mutual recognition agreements with the National Voluntary Laboratory Accreditation Program (NVLAP) and the American Association for Laboratory Accreditation (A²LA).

All testing in this report has been conducted in accordance with EMC Technologies' scope of NATA accreditation.

The current full scope of accreditation can be found on the NATA website: www.nata.com.au

The scope also includes a large number of emissions, immunity, SAR, EMR and Safety standards.

2.6 Units of Measurements

Conducted Emissions

Measurements are reported in units of dB relative to one microvolt (dBμV).

Radiated Emissions

Measurements are reported in units of dB relative to one microvolt per metre (dBμV/m).

2.7 Test Equipment Calibration

Measurement instrumentation and transducers were calibrated in accordance with the applicable standards by a NATA accredited laboratory such as Keysight Technologies (Australia) Pty Ltd or the National Measurement Institute (NMI). All equipment calibration is traceable to Australia national standards at the National Measurements Institute. The reference antenna calibration was performed by Liberty Labs LLC and the working antennas (biconilog and horn) calibrated by Liberty Labs LLC and EMC Technologies respectively. The complete list of test equipment used for the measurements, including calibration dates and traceability is contained in Appendix A

3.0 TEST CONFIGURATION

Refer to Appendix B for photographs of the tested system.



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4.0 CONDUCTED EMISSION MEASUREMENTS

4.1 Test Procedure

The arrangement specified in ANSI C63.4: 2014 was adhered to for the conducted EMI measurements. The EUT was placed in the RF screened enclosure and a CISPR EMI Receiver as defined in ANSI C63.2: 2016 was used to perform the measurements.

The EMI Receiver was operated under program control using the Max-Hold function and automatic frequency scanning, measurement and data logging techniques. The specified 0.15 MHz to 30 MHz frequency range was sub-divided into sub-ranges to ensure that all short duration peaks were captured.

4.2 Peak Maximising Procedure

The various operating modes of the system were investigated. For each of the sub-ranges, the EMI receiver was set to continuous scan with the Peak detector set to Max-Hold mode. The Quasi-Peak detector and the Average detector were then invoked to measure the actual Quasi-Peak and Average level of the most significant peaks, which were detected.

4.3 Calculation of Voltage Levels

The voltage levels were automatically measured in software and compared to the test limit. The method of calculation was as follows:

$$V_{EMI} = V_{Rx} + L$$

Where:

V_{EMI}	= The Measured EMI voltage in dB μ V to be compared to the limit.
V_{Rx}	= The Voltage in dB μ V read directly at the EMI receiver.
L	= The insertion loss in dB of the LISN, cables and transient Limiter.

4.4 Plotting of Conducted Emission Measurement Data

The measurement data pertaining to each frequency sub-range were concatenated to form a single graph of (peak) amplitude versus frequency. This was performed for both Active and Neutral lines and the composite graph was subsequently plotted. A list of the highest relevant peaks and the respective Quasi-Peak and Average values were also plotted on the graph.

4.5 Test Climatic Conditions

Shielded Room Temperature:	19°C
Relative Humidity:	63%



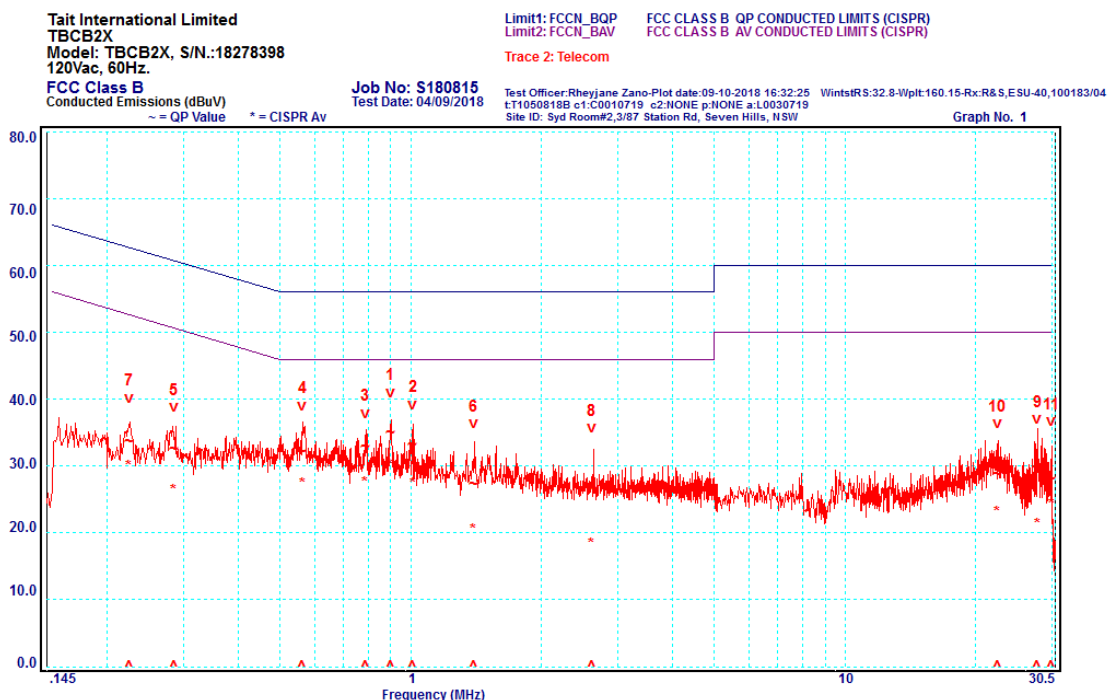
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4.6 Results of Conducted Emission Measurements

Graph 1 Telecom Line

0.145 to 30.5MHz



All measured frequencies complied with the Class B limits by a margin of greater than 10dB.

5.0 RADIATED EMISSION MEASUREMENTS

5.1 Test Procedure

The EUT was set up on the table top (placed on turntable) of total height 80 cm above the ground plane, and operated as described in section 2 of this report. The EMI Receiver was operated under software control via the PC Controller through the IEEE.488 Interface Bus Card Adaptor. The test frequency range was sub-divided into smaller bands with sufficient frequency resolution to permit reliable display and identification of possible EMI peaks while also permitting fast frequency scan times. A calibrated Biconilog antenna was used for measurements between 30 MHz and 1000 MHz. A calibrated double-ridged horn antenna was used for measurements over 1000 MHz.

Testing was performed at a distance of 3 metres. The measurement of emissions between 30 - 1000 MHz was measured with the resolution bandwidth of 120 kHz and the video bandwidth of 300 kHz.

The measurement of emissions above 1000 MHz was measured with the resolution bandwidth of 1000 kHz and the video bandwidth of 10 Hz for average measurements. The video bandwidth of 3000 kHz was used for peak measurements.

The receiver bandwidth was set to 6 dB.

The EUT was slowly rotated with the Peak Detector set to Max-Hold. This was performed for two antenna heights. Each significant peak was then investigated and maximised with the Quasi-Peak detector. The measurement data for each frequency range was automatically corrected by the software for cable losses, antenna factors and preamplifier gain and all data was then stored on disk in sequential data files. This process was performed for both horizontal and vertical antenna polarisations.

5.2 Plotting of Measurement Data for Radiated Emissions

The stored measurement data was combined to form a single graph which comprised of all the frequency sub-ranges. The accumulated EMI (EUT ON) was plotted as the Red trace.

The highest recorded EMI signals are shown on the Peaks List. For radiated EMI, each numbered peak is listed as a frequency, peak field strength, quasi-peak field strength and the margin relative to the limit in dB. A negative margin is the deviation of the recorded value below the limit.

5.3 Calculation of Field Strength

The field strength was calculated automatically by the software using all the pre-stored calibration data. The method of calculation is shown below:

$$E = V + AF - G + L$$

Where:

- E** = Radiated Field Strength in dB μ V/m.
- V** = EMI Receiver Voltage in dB μ V. (measured value)
- AF** = Antenna Factor in dB(m⁻¹). (stored as a data array of factor versus frequency)
- G** = Preamplifier Gain in dB. (stored as a data array of gain versus frequency)
- L** = Cable insertion loss in dB. (stored as a data array of insertion loss versus frequency)



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- **Example Field Strength Calculation**

Assuming a receiver reading of 34.0 dBμV is obtained at 90 MHz, the Antenna Factor at that frequency is 9.2 dB. The cable loss is 1.9 dB while the preamplifier gain is 20.0 dB. The resulting Field Strength is therefore as follows:

$$34.0 + 9.2 + 1.9 - 20.0 = 25.1 \text{ dB}\mu\text{V/m}$$

5.4 Test Climatic Conditions

Shielded Room Temperature: 17°C
Relative Humidity: 65%



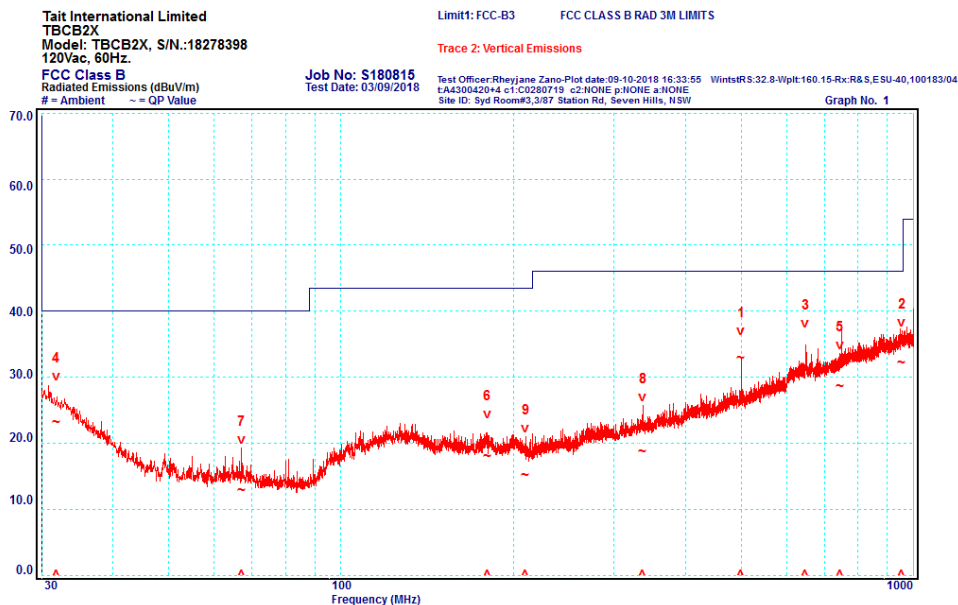
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5.5 Radiated EMI Results

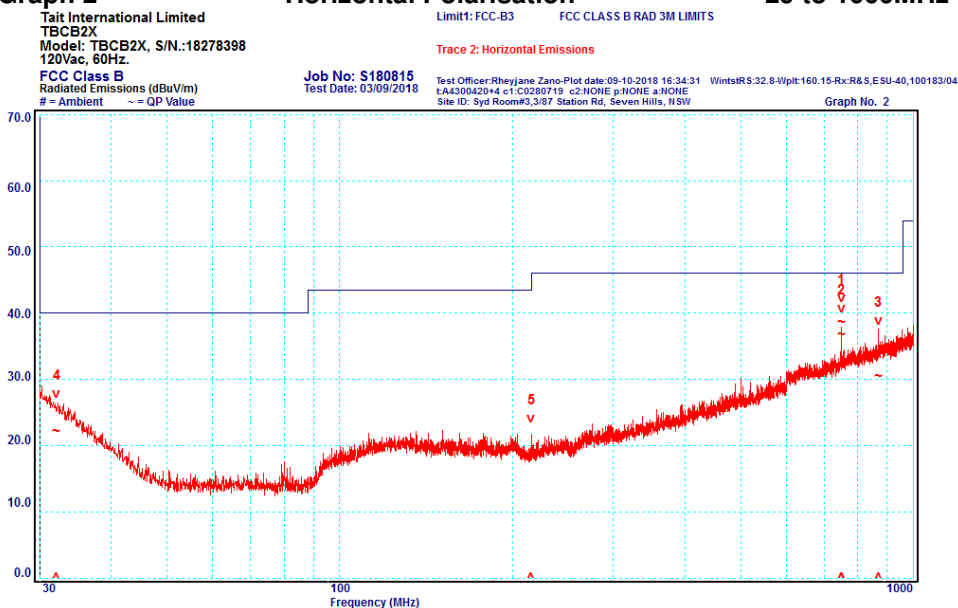
5.5.1 30 to 1000 MHz

Graph 1 Vertical Polarisation 29 to 1000MHz



All measured frequencies complied with the Class B, quasi peak limit by a margin of greater than 10dB.

Graph 2 Horizontal Polarisation 29 to 1000MHz



Plot	Frequency [MHz]	Quasi-Peak [dBuV/m]	Limit [dBuV/m]	Margin [± dB]
1	749.99	38.6	46.0	-7.4
2	750.00	36.8	46.0	-9.2

All measured frequencies complied with the Class B, quasi peak limit by a margin of at least 7.4dB.



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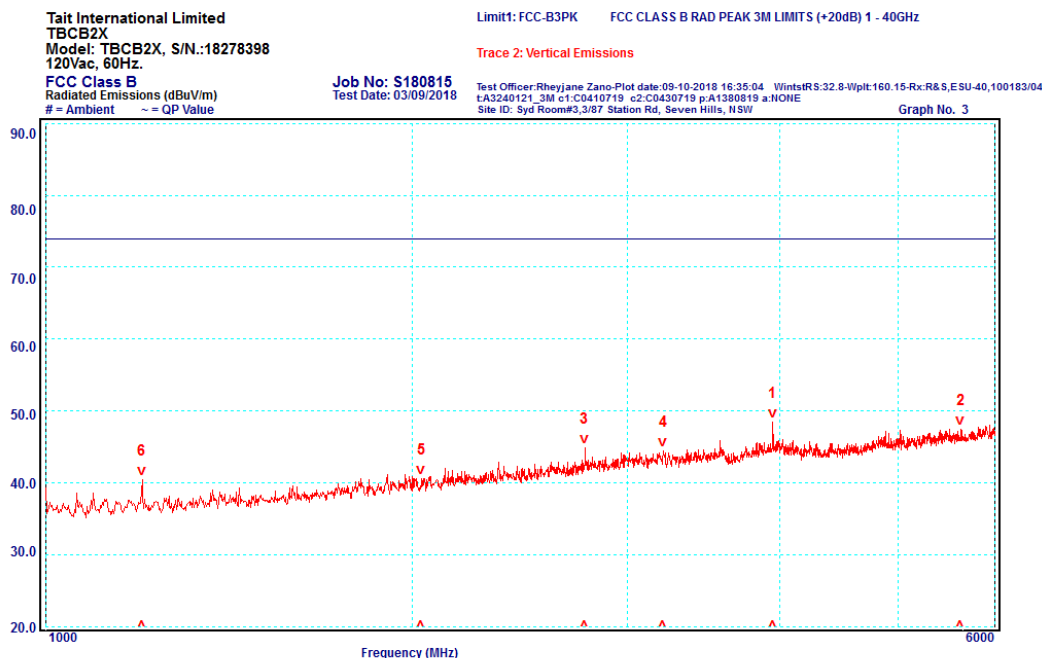
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5.5.2 Above 1 GHz

5.5.2.1 Peak Measurements

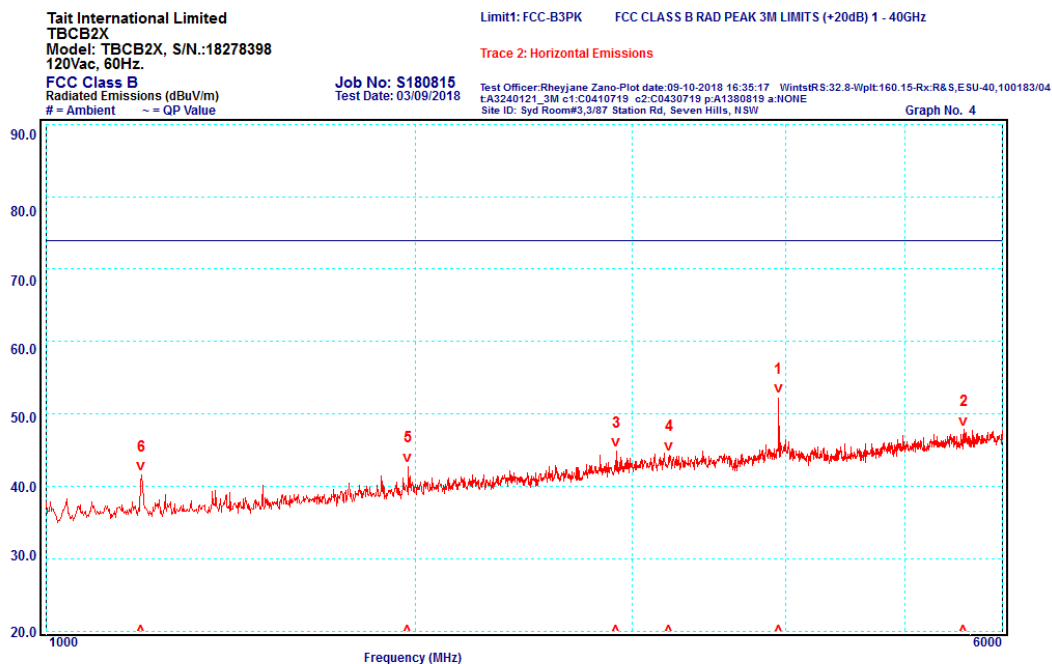
Testing was performed to 6GHz as the highest operating frequency is below 1 GHz.

Graph 3: Vertical Polarisation 1000 to 6000MHz



All Peak measurements complied with the Class B Peak limit by a margin of greater than 10 dB.

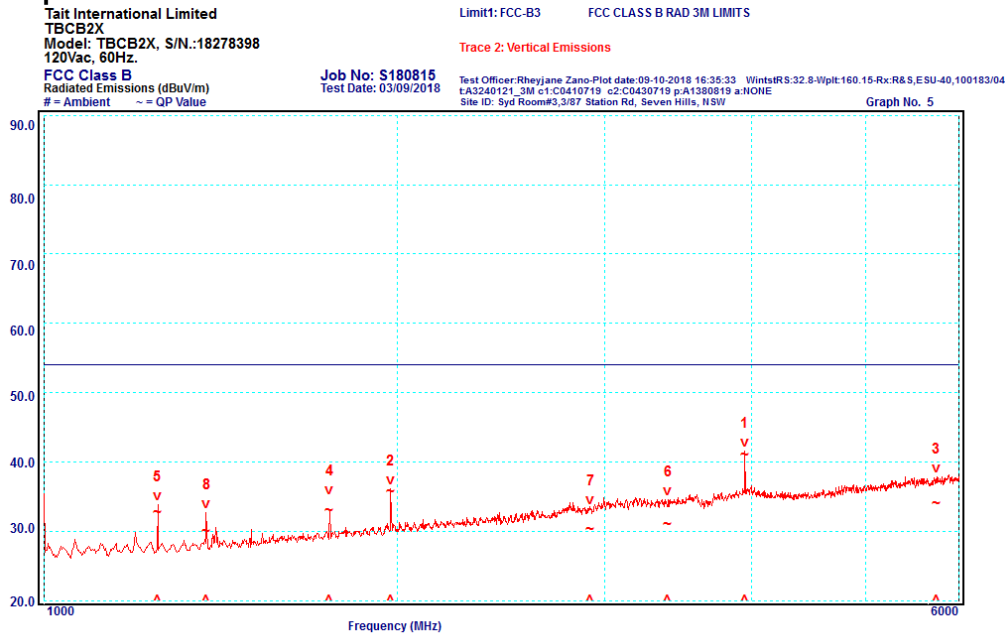
Graph 4: Horizontal Polarisation 1000 to 6000MHz



All Peak measurements complied with the Class B Peak limit by a margin of greater than 10 dB.

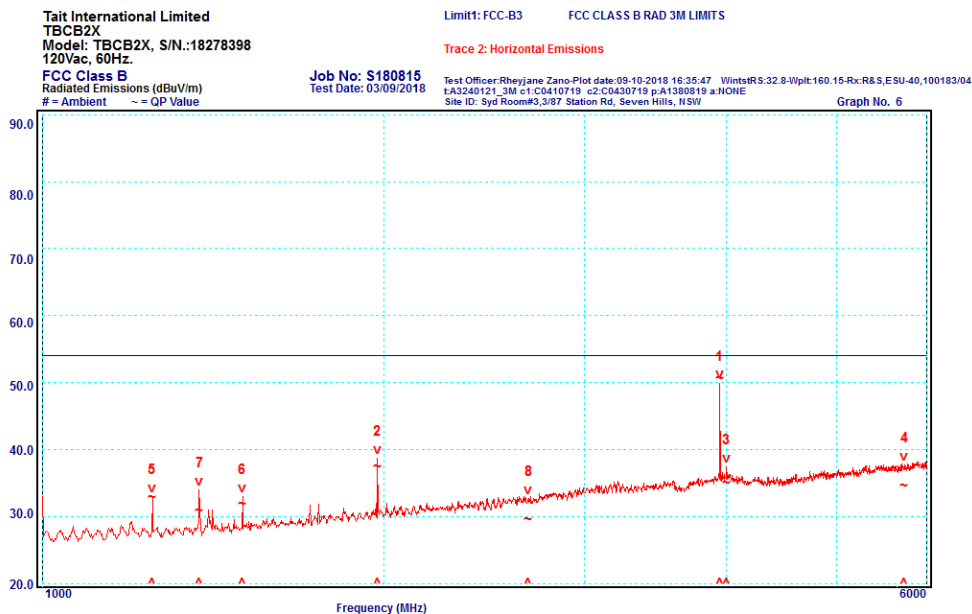
5.5.2.2 Average Measurements

Graph 5: Vertical Polarisation 1000 to 6000MHz



All measured frequencies complied with the Class B, quasi-peak limit by a margin of greater than 10dB.

Graph 6: Horizontal Polarisation 1000 to 6000MHz



Plot	Frequency [MHz]	Quasi-Peak [dBuV/m]	Limit [dBuV/m]	Margin [± dB]
1	3944.83	50.6	54.0	-3.4*

All measured frequencies complied with the Class B, quasi peak limit by a margin of at least 3.4dB*.

* This measurement falls within the laboratory's measurement uncertainty.

6.0 COMPLIANCE STATEMENT

The TBCB2X with Model Number: TBCB2X tested on behalf of Tait International Limited complied with the conducted and radiated EMI requirements of the 47 CFR Part 15 Subpart B Rules for a Class B device (unintentional radiator).

7.0 MEASUREMENT UNCERTAINTY

EMC Technologies has evaluated the equipment and the methods used to perform the emissions testing. The estimated measurement uncertainties for emissions tests shown within this report are as follows:

Conducted Emissions

Mains Port

9 kHz to 30 MHz	± 3.2 dB
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Radiated Emissions

9 kHz to 30 MHz	± 4.1 dB
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30 MHz to 300 MHz	± 5.1 dB
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300 MHz to 1000 MHz	± 4.7 dB
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Above 1000 MHz	± 4.6 dB
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The above expanded uncertainties are based on standard uncertainties multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

Application of measurement uncertainty for this report:

The referenced uncertainty standard specifies that determination of compliance shall be based on measurements without taking into account measurement uncertainty. However, the measurement uncertainty shall appear in the test report.



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APPENDIX A MEASUREMENT INSTRUMENTATION DETAILS

Equipment Type	Make/Model Serial Number	Last Cal. DD/MM/YY	Due Date DD/MM/YY
EMI Receivers	Model: ESU40 (Asset No: R038) S/N: 100183 20Hz – 40GHz	06/04/18	06/04/19 *1
LISN	Rohde & Schwarz ESH3-Z5 (Asset No: L036) S/N 832479/014	29/01/18	29/01/20 *3
	EMCO 25A LISN Model: 3825/2 (Asset No: L015) S/N: 9506-2379	30/01/18	30/01/19 *3
TLISN	Cat5 LISN Model: FCC-TLISN-T4-02 (Asset No: T105b) S/N: 091191.02	23/08/16	23/10/18 *3
Antennas	Sunar RF Motion Antenna Model: JB1 (Asset No: A430) S/N: A021318	08/03/18	08/03/21 *2
	Double Ridged Horn Antenna 1-18GHz (Asset No: A324) Model: EMCO 3115 S/N: 3823	29/01/18	29/01/21 *3
Limiter Transient	Limiter Transient 9kHz to 200MHz (Asset No: L003) Model: 11947A S/N: 3107A00857	17/07/18	17/07/19 *3
Cable	13m RG214 N-Type, 0.1 - 6000MHz (Asset No: SC028)	18/07/18	18/07/19 *3
	SC1=SC1A+SC1B (0.01 to 1000 MHz) (Asset No: SC001) S/N: C001	17/07/18	17/07/19 *3
Test Software	Add software, build revision	WinTst RS	Revision: B032R8

Note *1 : NATA Calibration by VMS International Pty Ltd.

Note *2: NATA Calibration by Keysight Technologies Inc..

Note *3 : In-house calibration. Traceable to Australian National Standards.

TEST SITES

Equipment Type	Make/Model Serial Number	Last Cal. DD/MM/YY	Due Date DD/MM/YY
Shielded Room/ Test Laboratory	7.23m × 4.83m × 2.45m	N/A	N/A
Indoor Open Area Test Site (iOATS)	RFI Industries S800 Serial Number: 876, 3 metre site iOATS situated at Seven Hills, NSW	02/07/18	02/07/19



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APPENDIX B1 TEST SETUP PHOTOGRAPHS

Conducted Emissions - Telecommunication Port



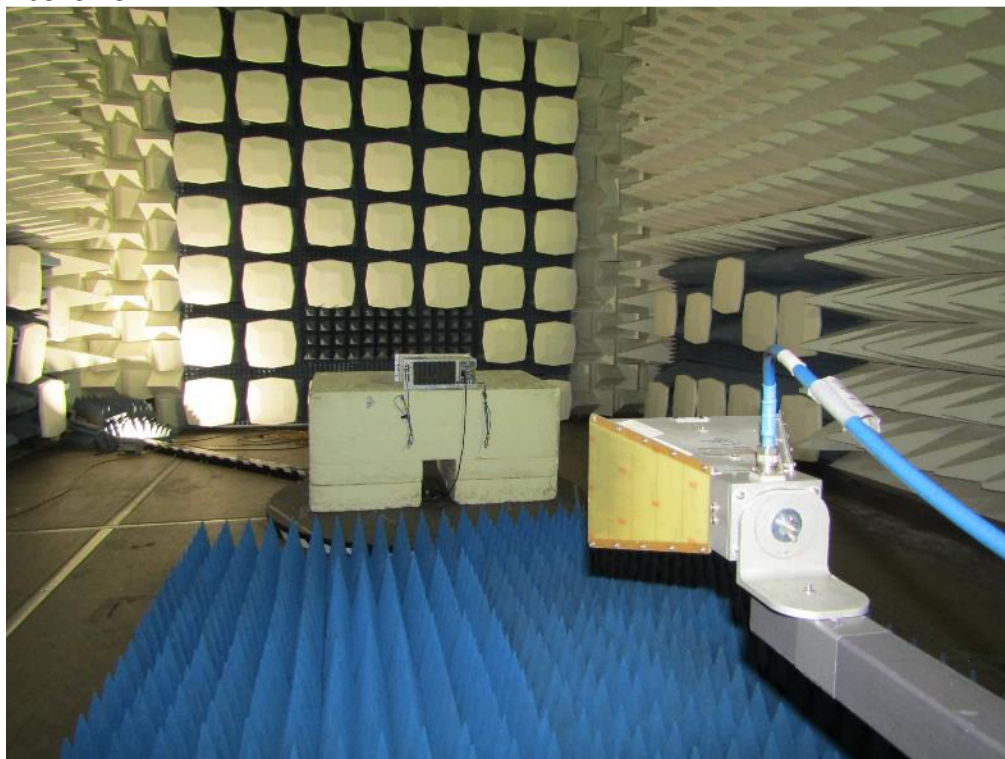
APPENDIX B2 TEST SETUP PHOTOGRAPHS

Radiated Emissions Test Setup Below 1GHz



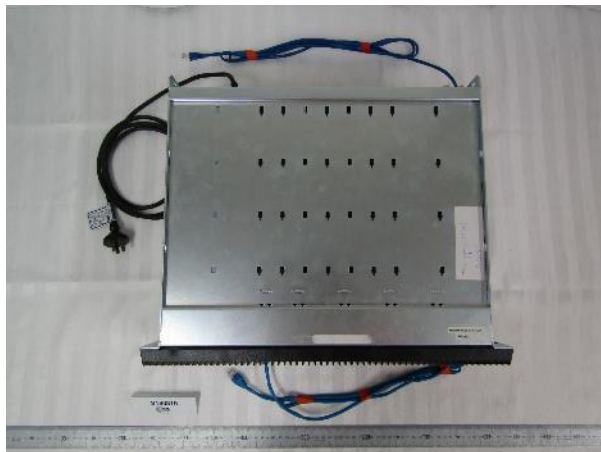
APPENDIX B3 TEST SETUP PHOTOGRAPHS

Radiated Emissions Test Setup Above 1GHz



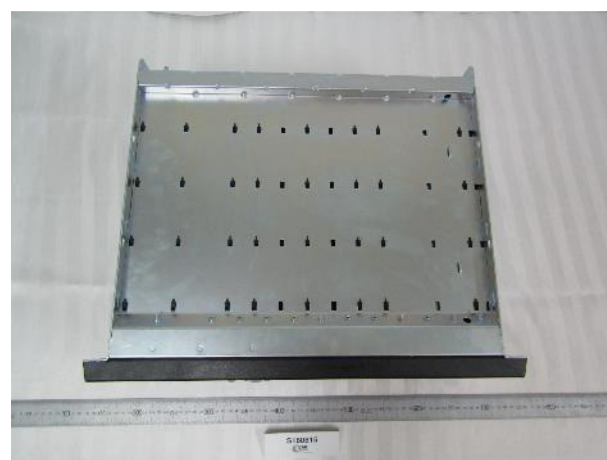
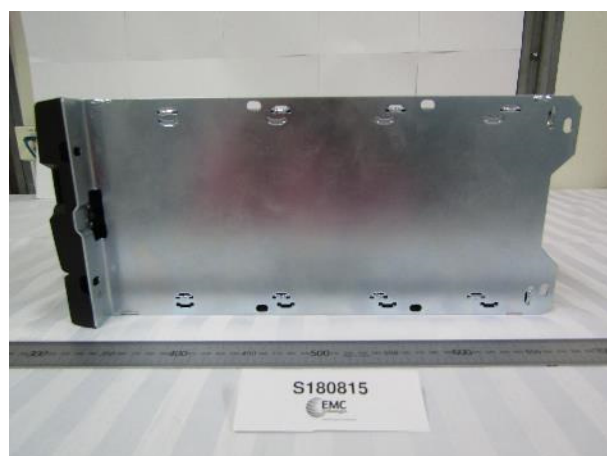
APPENDIX B4 TEST SAMPLE PHOTOGRAPHS

EUT



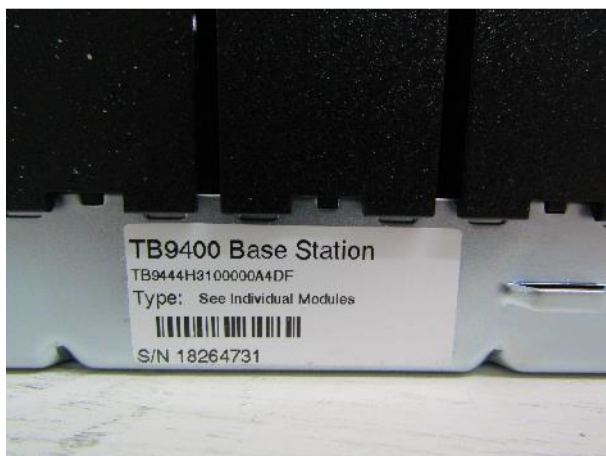
APPENDIX B5 TEST SAMPLE PHOTOGRAPHS

EUT External



APPENDIX B6 TEST SAMPLE PHOTOGRAPHS

EUT Surface Label



APPENDIX B7 TEST SAMPLE PHOTOGRAPHS

EUT Internal



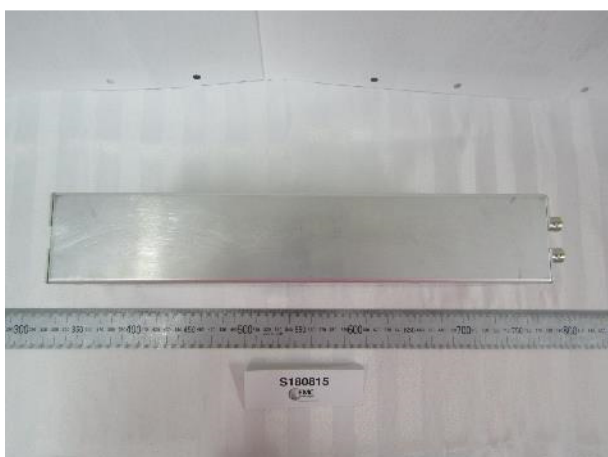
APPENDIX B8 TEST SAMPLE PHOTOGRAPHS

Main Unit Labels



APPENDIX B9 TEST SAMPLE PHOTOGRAPHS

Main Unit

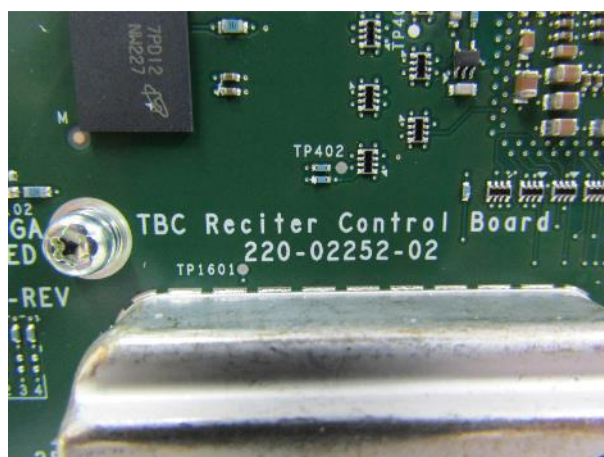


APPENDIX B10 TEST SAMPLE PHOTOGRAPHS

Main Unit Internal: PCB No. 1



TBC Reciter Control Board PCB

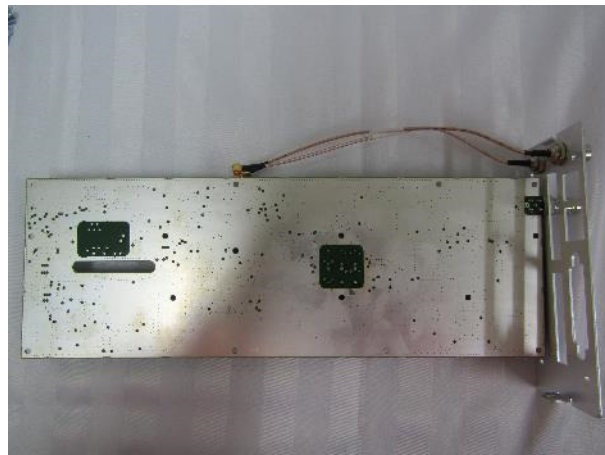


T01-01118-AAAC Internal PCB



APPENDIX B11 TEST SAMPLE PHOTOGRAPHS

Main Unit Internal: PCB No. 2

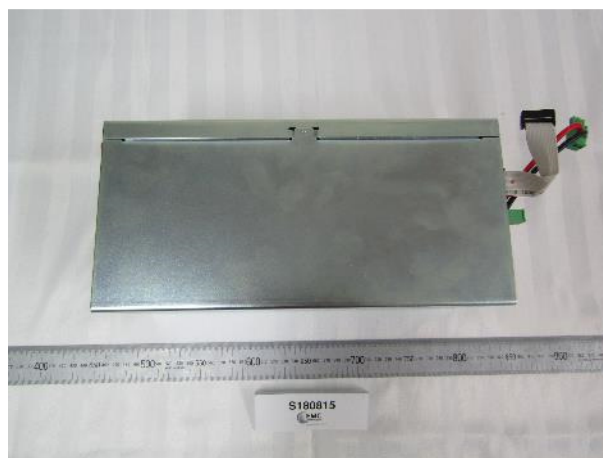
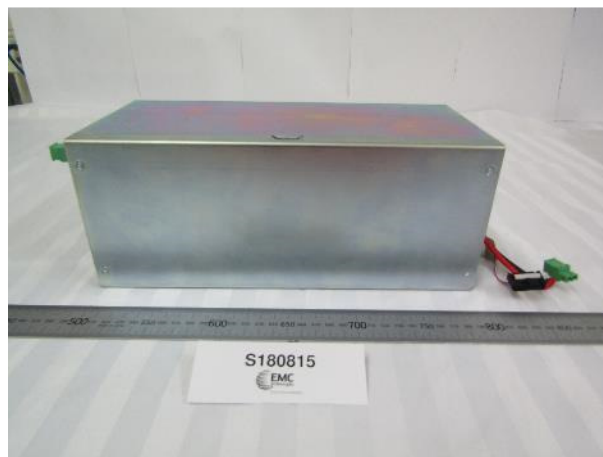


Main Unit Internal Cables



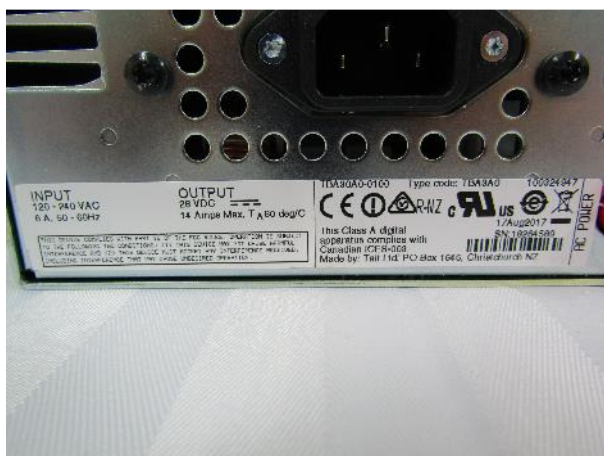
APPENDIX B12 TEST SAMPLE PHOTOGRAPHS

Power Supply Unit

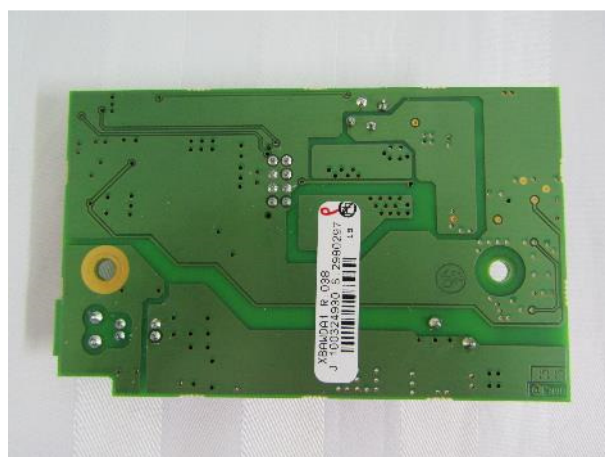


APPENDIX B13 TEST SAMPLE PHOTOGRAPHS

Power Supply Unit Label

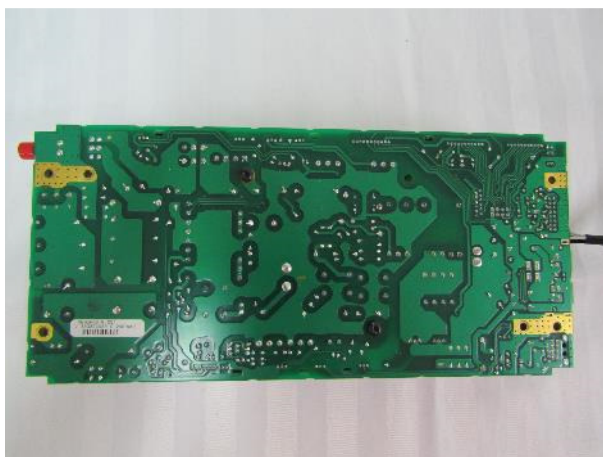


Power Supply Unit Internal: PCB No. 1



APPENDIX B14 TEST SAMPLE PHOTOGRAPHS

Power Supply Unit Internal: PCB No. 2



APPENDIX B15 TEST SAMPLE PHOTOGRAPHS

Power Supply Unit Internal: PCB No. 3

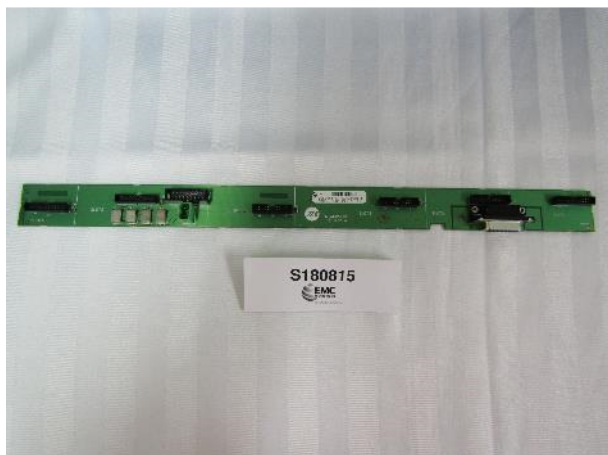


Power Supply Unit Internal: PCB No. 4



APPENDIX B16 TEST SAMPLE PHOTOGRAPHS

EUT Internal: PCB

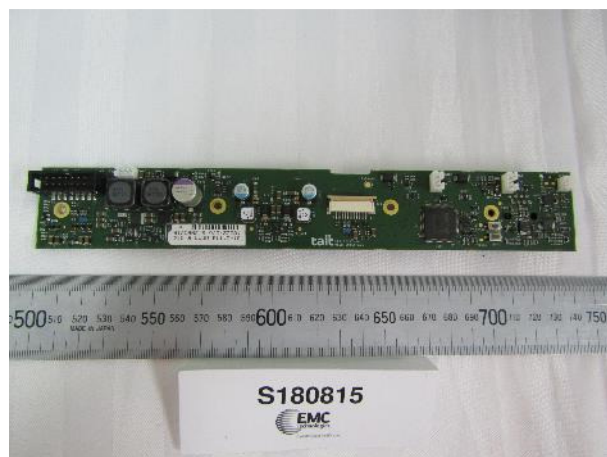
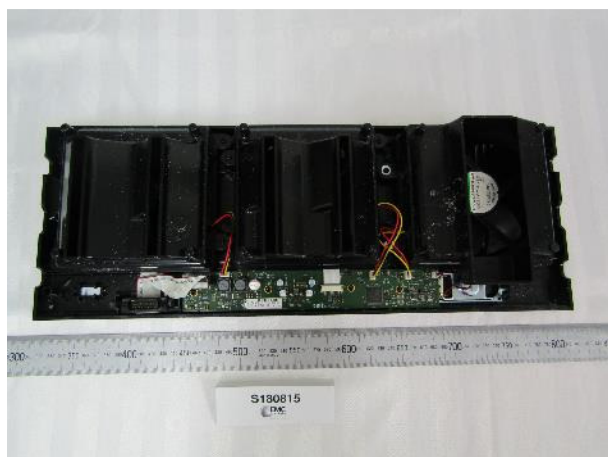
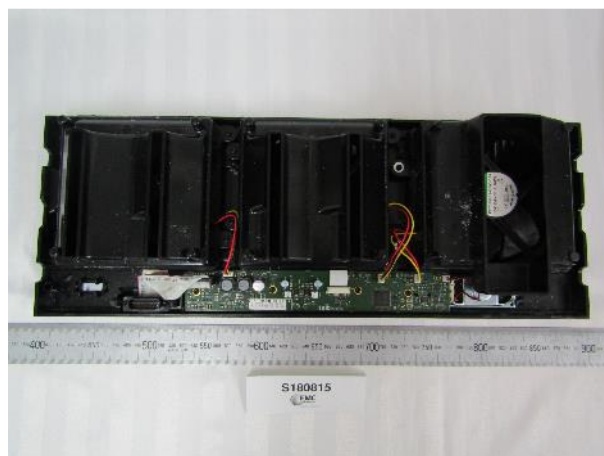


LCD Display



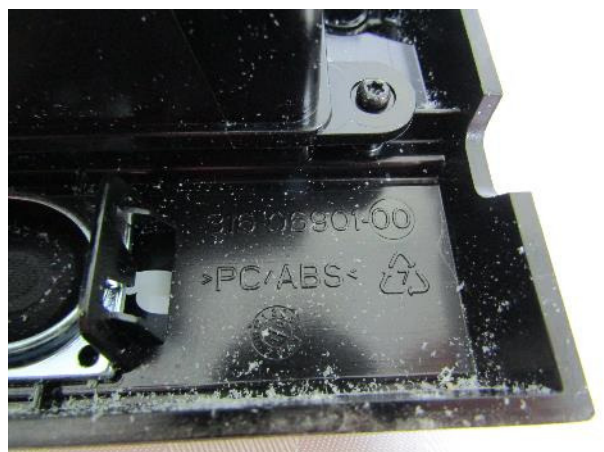
APPENDIX B17 TEST SAMPLE PHOTOGRAPHS

Fan Unit



APPENDIX B18 TEST SAMPLE PHOTOGRAPHS

Fan Unit Labels



APPENDIX C

LABELLING AND USER INFORMATION REQUIREMENTS

The following information is believed to be true and accurate, however we advise that the current FCC rules/regulations be consulted. EMC Technologies accepts no responsibility for any consequences arising from the use of the following information. It is the manufacturer's/suppliers' responsibility to ensure that all applicable FCC and ISEDC Rules are identified and adhered to.

If other parts of the FCC and ISEDC Rules apply, there may be requirements for additional or different forms of labelling and user information.

1. FCC REQUIREMENTS (Summarised)

FCC 2.955 Retention of records

A copy of the measurement report showing compliance with FCC standards must be retained and, if requested, submitted to the commission.

The following documentation pertaining to the equipment tested must be kept with the test report for up to 2 years after manufacturing has discontinued:

- A record of the original design drawings and specifications and all changes that have been made that may affect compliance
- A record of the procedures used for production inspection and testing (if tests were performed) to insure the conformance

FCC 15.19 Labelling requirements

The following statement shall be placed in a conspicuous location:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

When the device is so small or for such use that it is not practicable to place the statement on it, the information required shall be placed in a prominent location in the instruction manual or pamphlet supplied to the user or, alternatively, shall be placed on the container in which the device is marketed.

FCC 15.21 and 15.105 Information to user

The user's manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For a Class A digital device or peripheral, the instructions shall include the following or similar statement, placed in a prominent location in the text of the manual:

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



Accreditation No. 5292

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For a Class B digital device or peripheral, the instructions shall include the following or similar statement, placed in a prominent location in the text of the manual:

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.*
- Increase the separation between the equipment and receiver.*
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.*
- Consult the dealer or an experienced radio/TV technician for help.*

2. ISED CANADA REQUIREMENTS (Summarised)

ICES-003, Label

A record of the measurements and results (this report), showing the date that the measurements were completed, shall be retained by the manufacturer or importer for **a period of at least five years** from the date shown in the record and made available for examination on the request of the Minister.

The manufacturer, importer or supplier shall meet the labelling requirements for every ITE unit:

1. Prior to marketing in Canada, for ITE manufactured in Canada, and;
2. Prior to importation into Canada, for imported ITE.

The presence of the label on the ITE represents the manufacturer's or importer's Self-Declaration of Compliance (SDoC) to Industry Canada ICES-003. Each unit of an ITE model shall bear a label indicating the model's compliance with ICES-003.

Label: *CAN ICES-3(*)/NMB-3(*)*

Where * is either "A" or "B".

The label is not required if the apparatus is subject to an RSS standard, the labelling requirements of that standard are applied.

The label shall be permanently affixed to the ITE or displayed electronically and its text must be clearly legible. When the dimension of the device is too small or it is otherwise not practical to place the label on the ITE, the label shall be placed in a prominent location in the user manual supplied with the ITE. The user manual may be in an electronic format and must be readily available.

RSS-Gen, User information

User manuals for licence-exempt radio apparatus shall contain the following text, or an equivalent notice that shall be displayed in a conspicuous location, either in the user manual or on the device, or both:

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

- (1) This device may not cause interference; and*
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.*



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3. EXAMPLE OF COMBINED USER INFORMATION

If EUT size permits:

The label must display the following statement (in English) and the French version may be included in the user manual.

(Device size bigger than palm of hand is believed to be large enough to include the compliance statement).

If EUT size does not permit:

The required statement – in English and French must be displayed in the user manual.

“This device complies with Part 15 of the FCC Rules and Innovation, Science and Economic Development (ISED) Canada’s licence-exempt RSS standards. Operation is subject to the following two conditions:

(1) This device may not cause interference; and

(2) This device must accept any interference, including interference that may cause undesired operation of the device.”

Cet appareil est conforme avec Partie 15 des règlements de la FCC et Innovation, Sciences et Développement économique Canada RSS standard exempts de licence(s).

Son utilisation est soumise à Les deux conditions suivantes:

1. cet appareil ne peut pas provoquer d’interférences et

2. cet appareil doit accepter Toute interférence, y compris les interférences qui peuvent causer un mauvais fonctionnement du dispositif

https://www.ecfr.gov/cgi-bin/text-idx?SID=229493cfbe66acc95f42b817a626a4b0&mc=true&node=se47.1.2_1906&rgn=div8

https://www.ecfr.gov/cgi-bin/text-idx?SID=229493cfbe66acc95f42b817a626a4b0&mc=true&node=sg47.1.2_11060.sg5&rgn=div7

https://www.ecfr.gov/cgi-bin/text-idx?SID=229493cfbe66acc95f42b817a626a4b0&mc=true&node=se47.1.15_1101&rgn=div8

https://www.ecfr.gov/cgi-bin/text-idx?SID=229493cfbe66acc95f42b817a626a4b0&mc=true&node=se47.1.15_1105&rgn=div8

https://www.ecfr.gov/cgi-bin/text-idx?SID=229493cfbe66acc95f42b817a626a4b0&mc=true&node=se47.1.15_119&rgn=div8

https://www.ecfr.gov/cgi-bin/text-idx?SID=229493cfbe66acc95f42b817a626a4b0&mc=true&node=se47.1.15_121&rgn=div8



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