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Report On

FCC and Industry Canada Testing of the
Albert Hall Meetings
CLiKAPAD Prioritizer

COMMERCIAL-IN-CONFIDENCE

FCC ID: SMP PRIORITIZER
IC ID: 5716A-PRIORITIZER

Document 75902648 Report 01 Issue 2

March 2009



Product Service

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DATED

17 March 2009

This report has been up Issued to correct a Typographical Error in the Radiated Emissions Results

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 CFR 47: Parts 15 B, C and Industry Canada RSS-210 and RSS-Gen. The sample tested was found to comply with the requirements defined in the applied rules.

Test Engineer(s);

A Guy

S Hartley



G Lawler

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SECTION 1

REPORT SUMMARY

FCC and Industry Canada Testing of the
Albert Hall Meetings
CLiKAPAD Prioritizer



1.1 INTRODUCTION

The information contained in this report is intended to show verification of the Albert Hall Meetings CLiKAPAD Prioritizer to the requirements of FCC CFR 47 Part 15B: 2006, FCC CFR 47 Part 15C: 2006, Industry Canada RSS-210: 2007 and Industry Canada RSS-Gen: 2007.

Objective	To perform FCC and Industry Canada Testing to determine the Equipment Under Test's (EUT's) compliance with the Test Specification, for the series of tests carried out.
Manufacturer	Albert Hall Meetings Limited
Model Number(s)	PRIORITIZER
Serial Number(s)	000133251, 000133252, 000133253 and 000133254
Software Version	Not Applicable
Hardware Version	CP-01-01
Number of Samples Tested	Four
Test Specification/Issue/Date	FCC CFR 47 Part 15B: 2006 FCC CFR 47 Part 15C: 2006 Industry Canada RSS-210: 2007 Industry Canada RSS-Gen: 2007
Incoming Release Date	Declaration of Build Status 10 January 2008
Disposal Reference Number Date	Held Pending Disposal Not Applicable Not Applicable
Order Number Date	PO5088r2 27 November 2007
Start of Test	29 November 2007
Finish of Test	27 July 2008
Name of Engineer(s)	A Guy S C Hartley G Lawler



Product Service

1.2 BRIEF SUMMARY OF RESULTS

A brief summary of results for each configuration, in accordance with FCC CFR 47 Part 15B: 2006 and Industry Canada RSS-Gen: 2007, is shown below.

Configuration 1 – Prioritizer							
Section	FCC Spec Clause	IC Spec Clause	Test Description	Mode	Mod State	Result	Base Standard
2.1	15.109	6(a), 7.3.2	Radiated Emissions (Enclosure Port)	Transmit	-	N/A	-
				Receive	0	Pass	

A brief summary of results for each configuration, in accordance with FCC CFR 47 Part 15C: 2006 and Industry Canada RSS-210: 2007, is shown below.

Configuration 1 - Prioritizer							
Section	FCC Spec Clause	IC Spec Clause	Test Description	Mode	Mod State	Result	Base Standard
2.3	15.205	A8.5, 2.2	Measurement at Band Edge	Transmit	0	Pass	-
				Receive	-	N/A	
2.2	15.209, 15.249 (a) 15.249 (d)	A8.5	Radiated Emissions (Enclosure Port)	Transmit	0	Pass	-
				Receive	-	N/A	



1.3 DECLARATION OF BUILD STATUS

MAIN EUT	
MANUFACTURING DESCRIPTION	Voting System Keypad
MANUFACTURER	AHM Ltd (Albert Hall Meetings Limited)
TYPE	CLIKAPAD PRIORITIZER
PART NUMBER	PRIORITIZER
SERIAL NUMBER	000133251, 000133252, 000133253 and 000133254
HARDWARE VERSION	CP-01-01
TRANSMITTER OPERATING RANGE	2400-2483.5MHz (Restricted to 2401-2482MHz)
COUNTRY OF ORIGIN	UK
RECEIVER OPERATING RANGE	2400-2483.5MHz (Restricted to 2401-2482MHz)
INTERMEDIATE FREQUENCIES	
ITU DESIGNATION OF EMISSION	
HIGHEST INTERNALLY GENERATED FREQUENCY	48MHz
POWER	0dBm
FCC ID	SMP PRIORITIZER
INDUSTRY CANADA ID	5716A-PRIORITIZER
TECHNICAL DESCRIPTION	A Keypad transceiver for operation in the 2.4-2.5GHz ISM Band. This unit is for use in a Voting System
BATTERY/POWER SUPPLY	
MANUFACTURING DESCRIPTION	Integral
MANUFACTURER	VARTA Microbattery GmBH
TYPE	Lithium Polymer (Polyflex)
PART NUMBER	VARTA Polyflex 263441.03.8016/3555F
VOLTAGE	3.7V
COUNTRY OF ORIGIN	Germany

Signature
Date
D of B S Serial No

10 January 2008
75902648/02



1.4 PRODUCT INFORMATION

1.4.1 Technical Description

The Equipment Under Test (EUT) was a Albert Hall Meetings CLiKAPAD Prioritizer as shown in the photograph below. A full technical description can be found in the Manufacturers documentation.



Equipment Under Test



Product Service

1.4.2 Test Configuration

Configuration 1: Prioritizer

The EUT was configured in accordance with FCC CFR 47 Part 15B: 2006, FCC CFR 47 Part 15C: 2006, Industry Canada RSS-210: 2007 and Industry Canada RSS-Gen: 2007.

1.4.3 Modes of Operation

Modes of operation of each EUT during testing were as follows:

Mode 1 - Transmit

Mode 2 - Receive

Information on the specific test modes utilised are detailed in the test procedure for each individual test.



Product Service

1.5 TEST CONDITIONS

For all tests the EUT was set up in accordance with the relevant test standard and to represent typical operating conditions. Tests were applied with the EUT situated in a shielded enclosure, test laboratories or an open test area as appropriate.

The EUT was powered via an in-built Lithium Polymer cell: 3.7 volts DC.

FCC Accreditation
90987 Octagon House, Fareham Test Laboratory

Industry Canada Accreditation
IC2932B-1 Octagon House, Fareham Test Laboratory

1.6 DEVIATIONS FROM THE STANDARD

No deviations from the applicable test standards or test plan were made during testing.

1.7 MODIFICATION RECORD

No modifications were made to the EUT during testing.



Product Service

SECTION 2

TEST DETAILS

FCC and Industry Canada Testing of the
Albert Hall Meetings
CLiKAPAD Prioritizer



Product Service

2.1 RADIATED EMISSIONS (ENCLOSURE PORT)**2.1.1 Specification Reference**

FCC CFR 47 Part 15B: 2006, Clause 15.109
Industry Canada RSS-Gen: 2007, Clause 6(a), 7.2.3

2.1.2 Equipment Under Test

CLiKAPAD Prioritizer, S/N: 000133254

2.1.3 Date of Test and Modification State

26 and 27 July 2008 – Modification State 0

2.1.4 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.1.5 Test Method and Operating Modes

The test was applied in accordance with the test method requirements of
FCC CFR 47 Part 15: 2006 and Industry Canada RSS-Gen: 2007

The test was performed with the EUT in the following configurations and modes of operation:

Configuration 1 - Mode 2

2.1.6 Environmental Conditions

	26 July 2008	27 July 2008
Ambient Temperature	21°C	21°C
Relative Humidity	59%	50%
Atmospheric Pressure	1012mbar	1014mbar



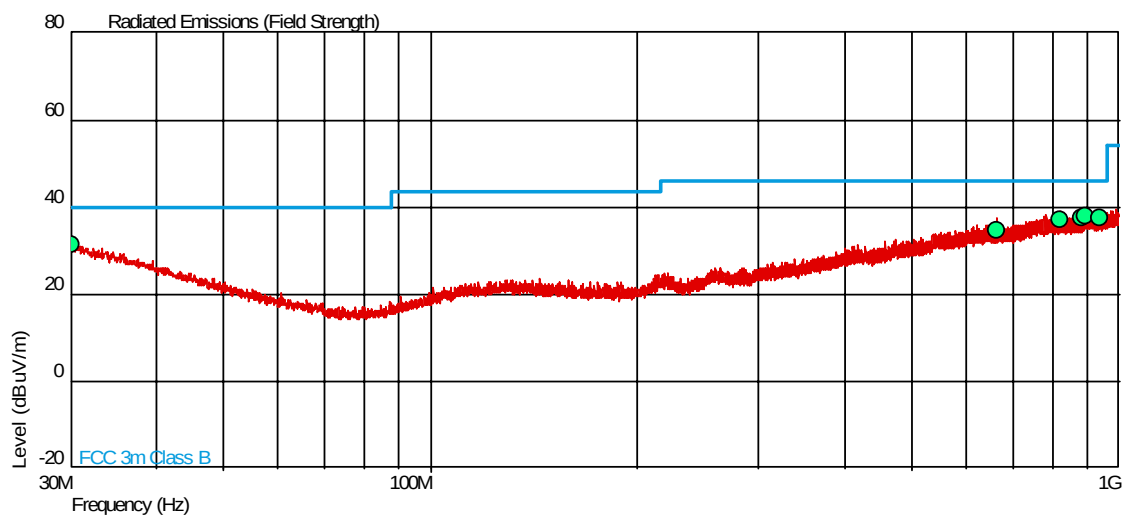
2.1.7 Test Results

For the period of test the EUT met the requirements of FCC CFR 47 Part 15B: 2006 and Industry Canada RSS-Gen: 2007 for Radiated Emissions (Enclosure Port).

The test results are shown below.

Configuration 1 - Mode 2

30MHz to 1GHz



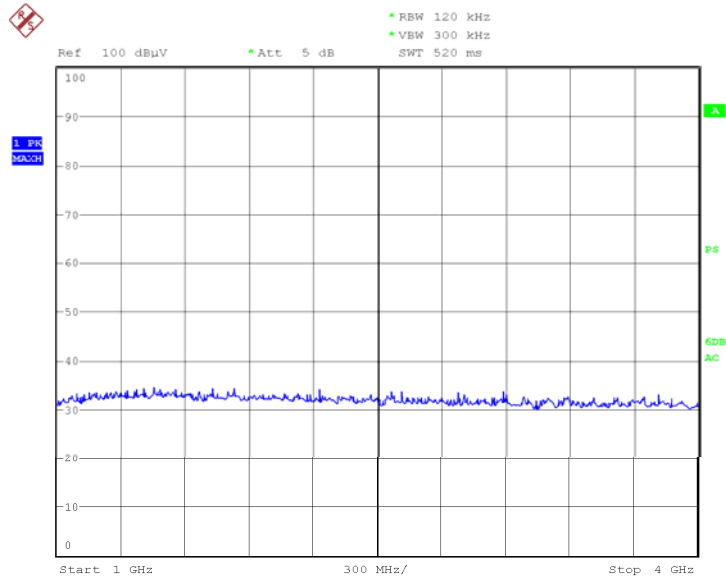
Frequency (MHz)	QP Level (dBuV/m)	QP Level (uV/m)	QP Limit (dBuV/m)	QP Limit (uV/m)	QP Margin (dBuV/m)	QP Margin (uV/m)	Angle (Deg)	Height (m)	Polarity
30.179	31.5	37.6	40.0	100	-8.5	-62.4	91	1.00	Vertical
665.895	34.8	55.0	46.0	199.5	-11.2	-144.6	231	1.00	Horizontal
822.499	37.0	70.1	46.0	199.5	-9.0	-128.7	199	1.00	Horizontal
884.728	37.4	74.1	46.0	199.5	-8.6	-125.4	55	1.00	Horizontal
896.298	37.8	77.6	46.0	199.5	-8.2	-121.9	1	1.00	Horizontal
940.705	37.7	76.7	46.0	199.5	-8.3	-122.8	207	1.00	Vertical

1MHz to 12.5GHz

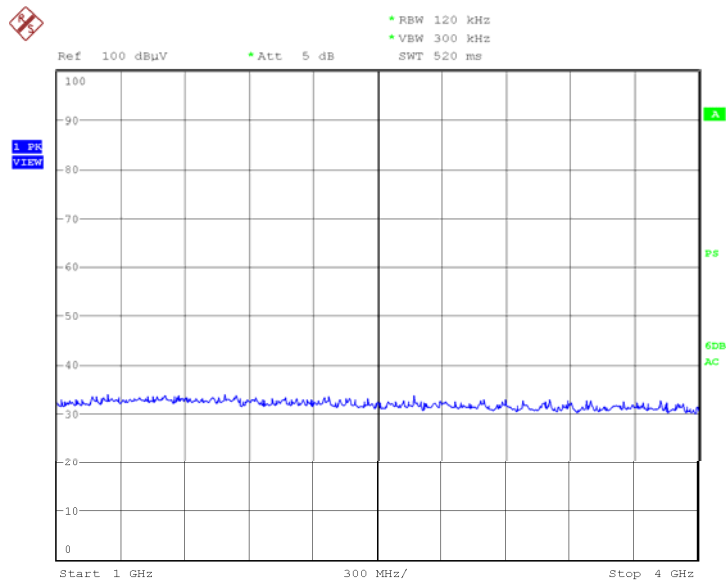
Frequency GHz	Antenna Polarisation.	Antenna Height cm	EUT Arc degrees	Result Peak dBuV/m	Result Average dBuV/m	Peak Limit dBuV/m	Average Limit dBuV/m
4.881	Horizontal	100	118	54.3	50.8	74.0	54.0
4.881	Vertical	100	33	56.0	53.9	74.0	54.0



Product Service

1GHz to 4GHzVertical

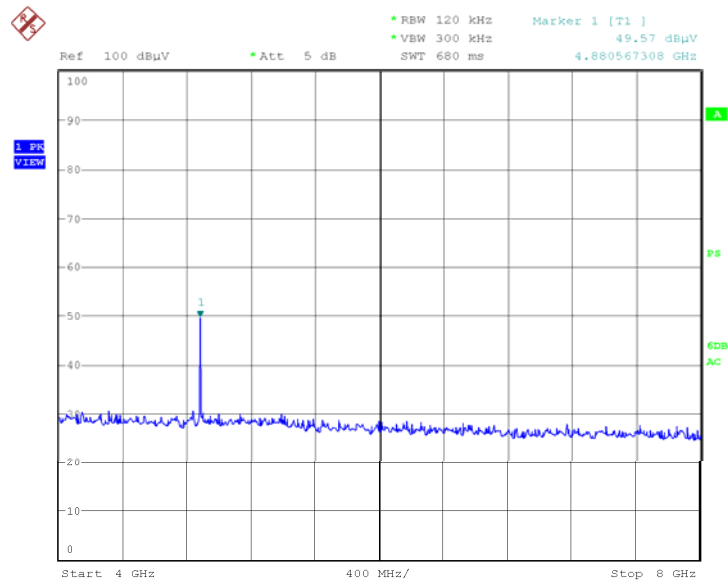
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Horizontal

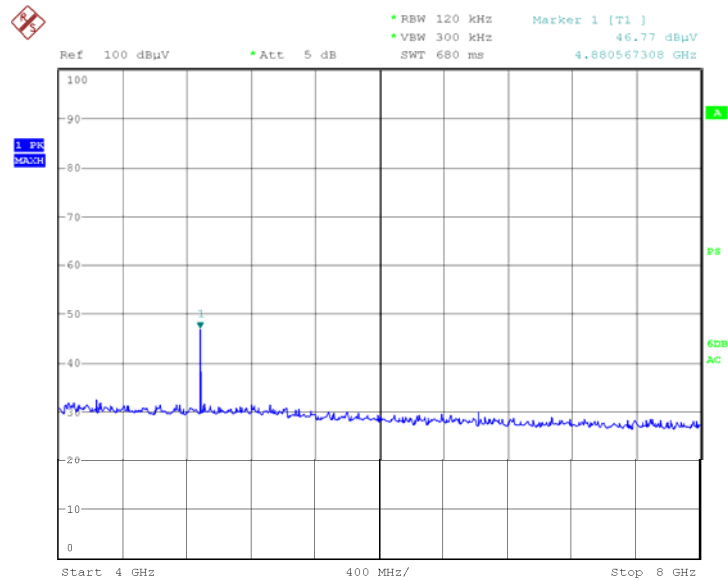
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Product Service

4GHz to 8GHzVertical

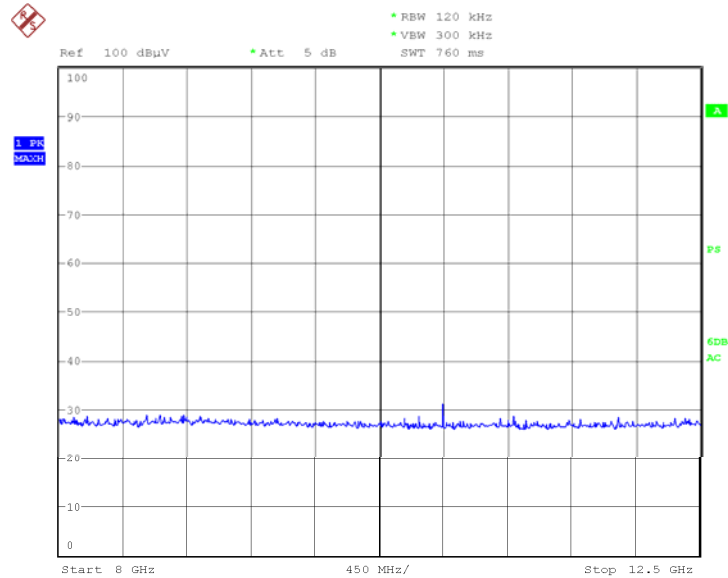
Date: 26.JUL.2008 16:41:48

Horizontal

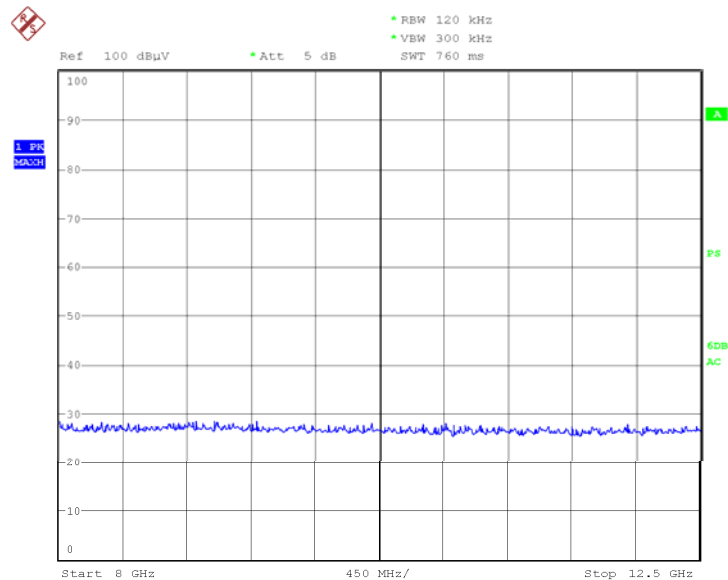
Date: 26.JUL.2008 16:45:10



Product Service

8GHz to 12GHzVertical

Date: 26.JUL.2008 16:57:52

Horizontal

Date: 26.JUL.2008 17:00:09



Product Service

2.2 RADIATED EMISSIONS (ENCLOSURE PORT)

2.2.1 Specification Reference

FCC CFR 47 Part 15C: 2006, Clause 15.209, 15.249(a), 15.249(d)
Industry Canada RSS-210: 2007, Clause A8.5

2.2.2 Equipment Under Test

Clickapad Pritortiser, S/N: 000133251, 000133252 and 000133253

2.2.3 Date of Test and Modification State

29 November and 02 December 2007 and 06 January 2008 - Modification State 0

2.2.4 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.2.5 Test Method and Operating Modes

The test was applied in accordance with the test method requirements of
FCC CFR 47 Part 15: 2006 and Industry Canada RSS-210:2007

The test was performed with the EUT in the following configurations and modes of operation:

Configuration 1 - Mode 1

2.2.6 Environmental Conditions

	29 November 2007	02 December 2007	05 January 2008
Ambient Temperature	18°C	19°C	20°C
Relative Humidity	48%	44%	35%
Atmospheric Pressure	1003mbar	993mbar	995mbar



2.2.7 Test Results

For the period of test the EUT met the requirements of FCC CFR 47 Part 15C: 2006 and Industry Canada RSS-210: 2007 for Radiated Emissions (Enclosure Port).

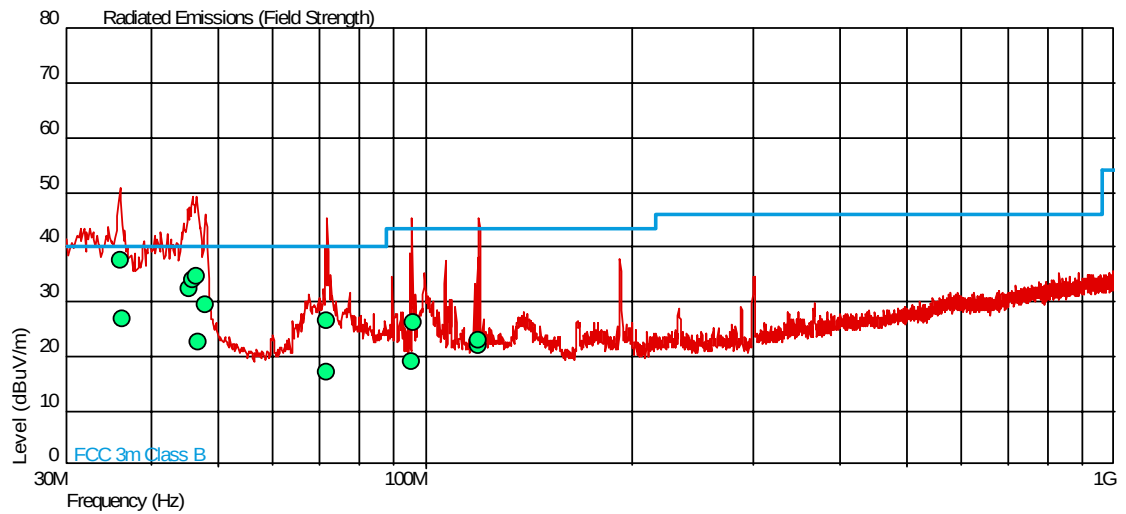
The test results are shown below.

Configuration 1 - Mode 1

Bottom Channel

Maximum Carrier Field Strength

Frequency GHz	Antenna Polarisation.	Antenna Height cm	EUT Arc degrees	Result Peak dB μ V/m	Result Average dB μ V/m	Peak Limit dB μ V/m	Average Limit dB μ V/m
2.401	Horizontal	122	63	90.8	58.0	114.0	94.0

30MHz to 1GHz

Frequency (MHz)	QP Level (dBuV/m)	QP Level (uV/m)	QP Limit (dBuV/m)	QP Limit (uV/m)	QP Margin (dBuV/m)	QP Margin (uV/m)	Angle (Deg)	Height (m)	Polarity
36.017	37.7	76.7	40.0	100	-2.3	-23.3	163	1.00	Vertical
36.290	27.0	22.4	40.0	100	-13.0	-77.6	317	1.00	Horizontal
45.461	32.2	40.7	40.0	100	-7.8	-59.3	122	1.00	Vertical
45.900	34.1	50.7	40.0	100	-5.9	-49.3	301	1.00	Vertical
46.496	34.6	53.7	40.0	100	-5.4	-46.3	355	1.00	Vertical
46.797	22.5	13.3	40.0	100	-17.5	-86.7	0	1.00	Horizontal
47.861	29.4	29.5	40.0	100	-10.6	-70.5	69	1.00	Vertical
72.004	17.0	7.1	40.0	100	-23.0	-92.9	28	1.00	Horizontal
72.015	26.4	20.9	40.0	100	-13.6	-79.1	46	1.00	Vertical
95.547	18.9	8.8	43.5	150	-24.6	-140.8	152	1.00	Horizontal
95.809	26.3	20.7	43.5	150	-17.2	-129.0	160	1.00	Vertical
119.554	21.8	12.3	43.5	150	-21.7	-137.3	47	1.00	Horizontal
119.556	22.9	14.0	43.5	150	-20.6	-135.7	3	1.00	Vertical

1GHz to 25GHz

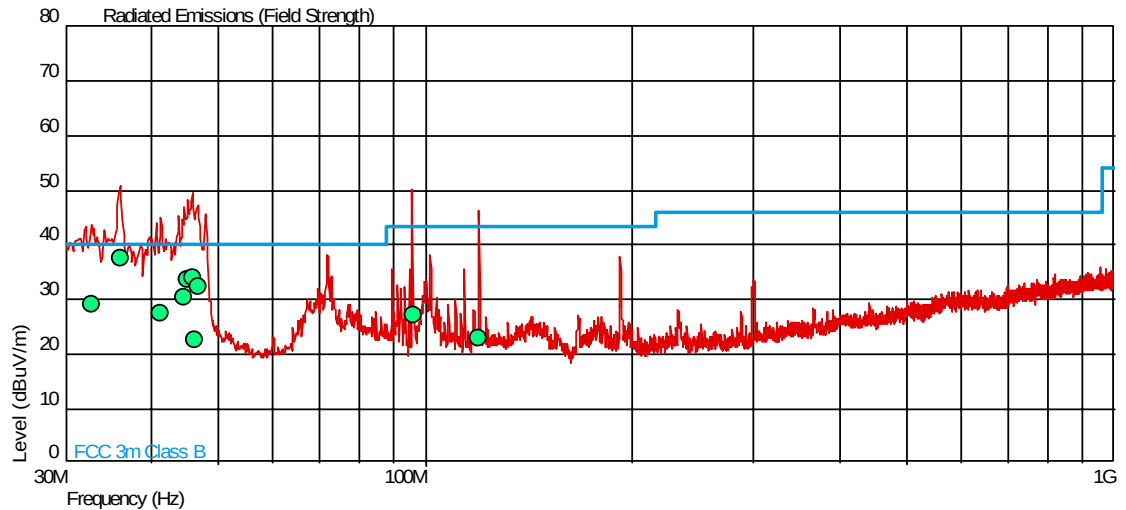
Frequency GHz	Antenna Polarisation.	Antenna Height cm	EUT Arc degrees	Result Peak dBuV/m	Result Average dBuV/m	Peak Limit dBuV/m	Average Limit dBuV/m
4.803	Horizontal	100	325	64.0	33.3	74.0	54.0
7.203	Vertical	162	293	58.6	36.0	74.0	54.0



Product Service

Middle ChannelMaximum Carrier Field Strength

Frequency GHz	Antenna Polarisation.	Antenna Height cm	EUT Arc degrees	Result Peak dB μ V/m	Result Average dB μ V/m	Peak Limit dB μ V/m	Average Limit dB μ V/m
2.4405	Horizontal	109	74	90.3	58.8	114.0	94.0

30MHz to 1GHz

Frequency (MHz)	QP Level (dBuV/m)	QP Level (uV/m)	QP Limit (dBuV/m)	QP Limit (uV/m)	QP Margin (dBuV/m)	QP Margin (uV/m)	Angle (Deg)	Height (m)	Polarity
32.702	29.0	28.2	40.0	100.0	-11.0	-71.8	359	1.00	Vertical
36.001	37.5	75.0	40.0	100.0	-2.5	-25.0	0	1.00	Vertical
41.257	27.4	23.4	40.0	100.0	-12.6	-76.5	204	1.00	Vertical
44.699	30.4	33.1	40.0	100.0	-9.6	-66.9	198	1.00	Vertical
45.153	33.5	47.3	40.0	100.0	-6.5	-52.7	92	1.00	Vertical
45.902	34.0	50.1	40.0	100.0	-6.0	-49.9	17	1.00	Vertical
46.358	22.6	13.5	40.0	100.0	-17.4	-86.5	248	1.00	Horizontal
46.649	32.3	41.2	40.0	100.0	-7.7	-58.8	121	1.00	Vertical
95.818	27.0	22.4	43.5	150.0	-16.5	-127.2	77	1.00	Vertical
119.689	22.8	13.8	43.5	150.0	-20.7	-135.8	358	1.00	Vertical

1GHz to 25GHz

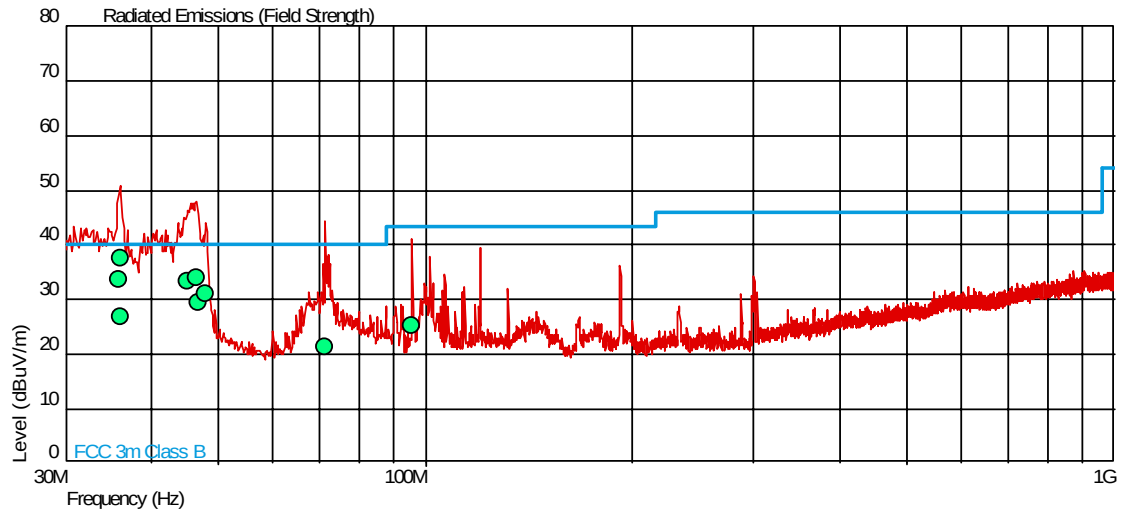
Frequency GHz	Antenna Polarisation.	Antenna Height cm	EUT Arc degrees	Result Peak dBuV/m	Result Average dBuV/m	Peak Limit dBuV/m	Average Limit dBuV/m
4.882	Horizontal	105	277	66.1	34.7	74.0	54.0
7.322	Vertical	100	086	54.0	35.2	74.0	54.0



Product Service

Top ChannelMaximum Carrier Field Strength

Frequency GHz	Antenna Polarisation. V/H	Antenna Height cm	EUT Arc degrees	Result Peak dB μ V/m	Result Average dB μ V/m	Peak Limit dB μ V/m	Average Limit dB μ V/m
2.478	Horizontal	114	73.7	89.9	58.1	114.0	94.0

30MHz to 1GHz

Frequency (MHz)	QP Level (dBμV/m)	QP Level (μV/m)	QP Limit (dBμV/m)	QP Limit (μV/m)	QP Margin (dBμV/m)	QP Margin (μV/m)	Angle (Deg)	Height (m)	Polarity
35.831	33.6	47.9	40.0	100.0	-6.4	-52.1	2	1.00	Vertical
36.004	37.5	75.0	40.0	100.0	-2.5	-25.0	17	1.00	Vertical
36.152	27.0	22.4	40.0	100.0	-13.0	-77.6	219	1.00	Horizontal
45.152	33.4	46.8	40.0	100.0	-6.6	-53.2	185	1.00	Vertical
46.499	33.9	49.5	40.0	100.0	-6.1	-50.5	85	1.19	Vertical
46.801	29.3	29.2	40.0	100.0	-10.7	-70.8	354	1.00	Vertical
47.998	31.2	36.3	40.0	100.0	-8.8	-63.7	57	1.00	Vertical
71.548	21.3	11.6	40.0	100.0	-18.7	-88.4	101	1.00	Vertical
95.760	25.3	18.4	43.5	150.0	-18.2	-131.2	323	1.00	Vertical

1GHz to 25GHz

Frequency GHz	Antenna Polarisation.	Antenna Height cm	EUT Arc degrees	Result Peak dBμV/m	Result Average dBμV/m	Peak Limit dBμV/m	Average Limit dBμV/m
4.956	Horizontal	100	326	63.2	33.3	74.0	54.0
7.434	Vertical	100	305	50.2	33.5	74.0	54.0



Product Service

2.3 RADIATED EMISSIONS - BAND EDGE (ENCLOSURE PORT)

2.3.1 Specification Reference

FCC CFR 47 Part 15C: 2006, Clause 15.205
Industry Canada RSS-210 Issue: 2007, Clause A8.5, 2.2

2.3.2 Equipment Under Test

CLiKAPAD Prioritizer, S/N: 000133251 and 000133253

2.3.3 Date of Test and Modification State

02 December 2007 - Modification State 0

2.3.4 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.3.5 Test Method and Operating Modes

The test was applied in accordance with the test method requirements of FCC CFR 47 Part 15: 2006 and Industry Canada RSS-210: 2007

The test was performed with the EUT in the following configurations and modes of operation:

Configuration 1 - Mode 1

2.3.6 Environmental Conditions

02 December 2007
Ambient Temperature 19°C
Relative Humidity 44%
Atmospheric Pressure 993mbar

2.3.7 Test Results

For the period of test the EUT met the requirements of FCC CFR 47 Part 15C: 2006 and Industry Canada RSS-210: 2007 for Radiated Emissions – Band Edge (Enclosure Port).

The test results are shown below.

Configuration 1 - Mode 1

Frequency (GHz)	Peak Result (dBμV/m)	Peak Result (μV/m)	Peak Limit (dBμV/m)	Peak Limit (μV/m)	Average Result (dBμV/m)	Average Result (μV/m)	Average Limit (dBμV/m)	Average Limit (μV/m)
2.401	44.70	171.79	74.00	5000.00	8.40	2.63	54.00	500.00
2.478	42.10	127.35	74.00	5000.00	8.50	2.66	54.00	500.00



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SECTION 3

TEST EQUIPMENT USED



3.1 TEST EQUIPMENT USED

List of absolute measuring and other principal items of test equipment.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Due
Section 2.1, 2.2 and 2.3 EMC - Radiated Emissions					
Spectrum Analyser	Hewlett Packard	8542E	18	12	09-Feb-2008
Signal Generator	Hewlett Packard	8672A	223	12	22-Feb-2008
Antenna (Double Ridge Guide)	Link Microtek Ltd	AM180HA-K-TU2	230	24	22-Jun-2008
Antenna (Double Ridge Guide, 1GHz-18GHz)	EMCO	3115	234	12	6-Sep-2009
Antenna (Double Ridge Guide, 1GHz-18GHz)	EMCO	3115	235	12	29-Jun-2008
Antenna (Bilog)	Schaffner	CBL6143	287	24	13-Jan-2008
Dual Power Supply Unit	Thurlby	PL320	288	-	TU
Test Receiver	Rohde & Schwarz	ESIB40	1006	12	21-Apr-2008
Antenna (Double Ridge Guide)	Q-Par Angus Ltd	QSH 180K	1511	24	17-Jul-2010
Pre-Amplifier	Phase One	PS04-0085	1532	-	TU
Pre-Amplifier	Phase One	PS04-0086	1533	-	TU
Pre-Amplifier	Phase One	PS04-0087	1534	12	30-Jul-2009
Screened Room (5)	Rainford	Rainford	1545	36	11-Feb-2011
Mast Controller	Inn-Co GmbH	CO 1000	1606	-	TU
Turntable/Mast Controller	EMCO	2090	1607	-	TU
Signal Generator	Marconi	2031	2015	12	8-Dec-2008
EMI Test Receiver	Rohde & Schwarz	ESIB26	2028	12	25-Jun-2008
High Pass Filter (4GHz)	RLC Electronics	F-100-4000-5-R	2773	-	TU
Antenna (Bilog)	Chase	CBL6143	2904	24	28-Nov-2009
Signal Generator (10MHz to 40GHz)	Rohde & Schwarz	SMR40	3171	12	25-Jul-2009
Compliance 3 Emissions	Schaffner	C3e Software V.4.00.00	3274	-	N/A - Software
High Pass Filter (3GHz)	RLC Electronics	F-100-3000-5-R	3349	12	23-May-2009
Signal Generator, 9kHz to 6GHz	Rohde & Schwarz	SMB 100A	3499	12	22-May-2009
EMI Receiver	Rohde & Schwarz	ESU26	3581	12	20-Jul-2009

TU – Traceability Unscheduled



3.2 MEASUREMENT UNCERTAINTY

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

Test Discipline	Frequency / Parameter	MU
Radiated Emissions, Bilog Antenna, AOATS	30MHz to 1GHz Amplitude	5.1dB*
Radiated Emissions, Horn Antenna, AOATS	1GHz to 40GHz Amplitude	6.3dB*
Conducted Emissions, LISN	150kHz to 30MHz Amplitude	3.2dB*
Conducted Emissions, ISN	150kHz to 30MHz Amplitude	2.1dB
Substitution Antenna, Radiated Field	30MHz to 18GHz Amplitude	2.6dB
Discontinuous Interference	150kHz to 30MHz Amplitude	3.0dB*
Interference Power	30MHz to 300MHz Amplitude	3.0dB*
Radiated E-Field Susceptibility	26MHz to 2.5GHz Test Amplitude	1.4dB†
Conducted Susceptibility	100kHz to 250MHz Amplitude	1.8dB†
Power Frequency Magnetic Field	50Hz/60Hz Amplitude	0.45%
Magnetic Emissions	9kHz to 30MHz Amplitude	3.4dB*
Magnetic Field/Flux iaw EN 50366	10Hz to 400kHz	2.64%
Harmonics and Flicker	The test was applied using proprietary equipment that meets the requirements of EN 61000-3-2 and EN 61000-3-3	—
Mains Voltage Variations and Interrupts	The test was applied using proprietary equipment that meets the requirements of EN 61000-4-11	—
Fast Transient Burst	The test was applied using proprietary equipment that meets the requirements of EN 61000-4-4	—
Electrostatic Discharge	The test was applied using proprietary equipment that meets the requirements of EN 61000-4-2	—
Surge	The test was applied using proprietary equipment that meets the requirements of EN 61000-4-5	—
Vehicle Transients	The test was applied using proprietary equipment that meets the requirements of ISO 7637-1 and 2	—
Compass Safe Distance	Azimuth Accuracy	0.10°

Worst case error for both Time and Frequency measurement 12 parts in 10^6 .

* In accordance with CISPR 16-4

† In accordance with UKAS Lab 34



Product Service

SECTION 4

ACCREDITATION, DISCLAIMERS AND COPYRIGHT



Product Service

4.1 ACCREDITATION, DISCLAIMERS AND COPYRIGHT



This report relates only to the actual item/items tested.

Our UKAS Accreditation does not cover opinions and interpretations and any expressed are outside the scope of our UKAS Accreditation.

Results of tests not covered by our UKAS Accreditation Schedule are marked NUA
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