

TEST REPORT

ACCORDING TO:

FCC CFR 47 PART 15 subpart B;

RSS-Gen Issue 2 / ICES-003 issue 4

FOR:

Given Imaging Ltd.

**Data Recorder with a connected
Sensor Array**

Data Recorder model: DR3

Sensor Array model: DR3-Colon

Mode: Recording

This report is in conformity with ISO/ IEC 17025. The "A2LA Accredited" symbol endorsement applies only to the tests and calibrations that are listed in the scope of Hermon Laboratories accreditation. The test results relate only to the items tested. This test report shall not be reproduced in any form except in full with the written approval of Hermon Laboratories Ltd.

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1 Applicant information

Client name: Given Imaging Ltd.
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Telephone: +972 4909 7746
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E-mail: tuvi@givenimaging.com
Contact name: Mr. Tuvi Moalem

2 Equipment under test attributes

Product name: Data Recorder, model DR3, hardware version E, software release FFFF, serial number 2002 with a connected Sensor Array, model DR3-Colon
Mode: Recording
Operating frequency: 434.1 MHz (Rx) / 13.56 MHz (Tx)
Receipt date: 8/12/2009

3 Manufacturer information

Manufacturer name: Given Imaging Ltd.
Address: P.O.Box 258, Hermon Building, New Industrial Park, Yokneam, 20692, Israel
Telephone: +972 4909 7746
Fax: +972 4993 8060
E-mail: tuvi@givenimaging.com
Contact name: Mr. Tuvi Moalem

4 Test details

Project ID: 19944
Location: Hermon Laboratories Ltd. Harakevet Industrial Zone, Binyamina 30500, Israel
Test started: 8/12/2009
Test completed: 8/31/2009
Test specifications: FCC CFR 47 PART 15 subpart B;
RSS-Gen Issue 2 / ICES-003 issue 4

5 Tests summary

Test	Status
FCC 47 CFR part 15, subpart B / RSS-Gen / ICES-003	
FCC 47 CFR Part 15 Subpart B, Section 15.107; RSS-Gen, Section 7.2.2, ICES-003, Section 5.3, Conducted emissions, Class B	Not required
FCC Part 15, Section 109 / ICES-003, Section 5.5, / RSS-Gen, Section 7.2.3.2 Radiated emissions, Class B	Pass
FCC Part 15, Section 111 / RSS-Gen, Section 7.2.3.1, Conducted emission at receiver antenna port	Not required

Testing was completed against all relevant requirements of the test standard. The results obtained indicate that the product under test complies in full with the requirements tested.
The test results relate only to the items tested. Pass/ fail decision was based on nominal values.

	Name and Title	Date	Signature
Tested by:	Mrs. E. Pitt, test engineer	August 31, 2009	
Reviewed by:	Ms. N. Averin, certification engineer	September 1, 2009	
Approved by:	Mr. M. Nikishin, EMC and radio group leader	September 8, 2009	

6 EUT description

6.1 General information

The EUT is a data recorder in combination with a sensor array. The EUT was tested in recording mode (receiving at 434.1 MHz and transmitting at 13.56 MHz). The EUT includes receiver class 3, transmitter class 1. The data recorder is equipped with a 16GB SD card manufactured by SanDisk. The EUT is powered from internal 3.7 V battery.

6.2 Ports and lines

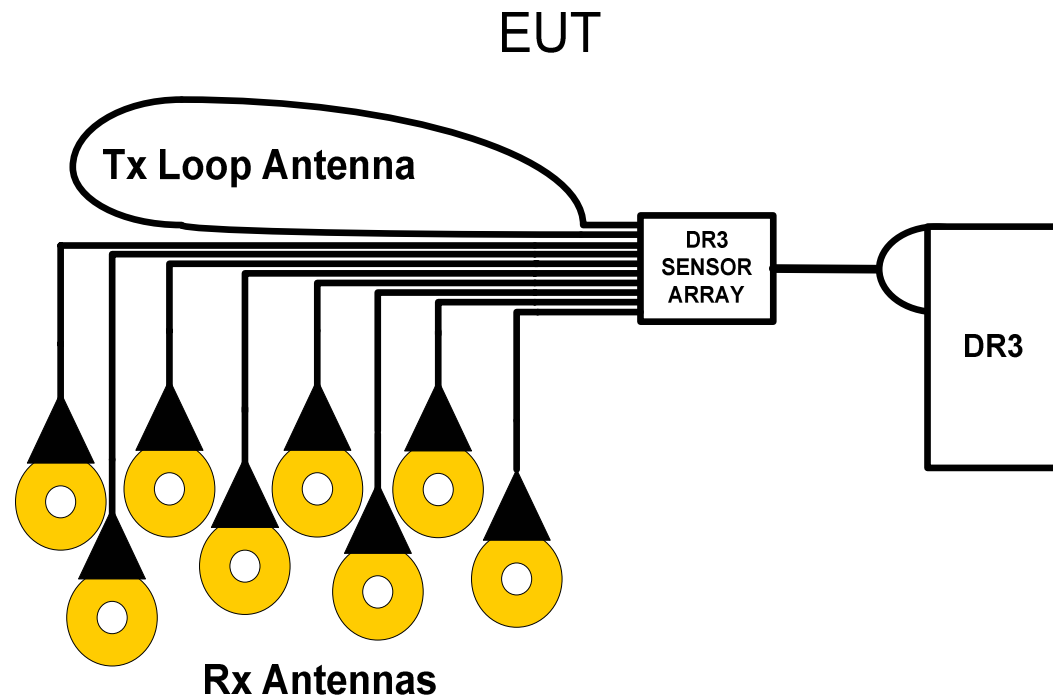
Port type	Port description	Connected from	Connected to	Qty.	Cable type	Cable length	Indoor / outdoor
RF / signal	Sensor Array connector	DR3	Sensor Array	1	Shielded	2.9 m*	Indoor
Signal	SD card	SD card	DR3	1	NA	NA	Indoor

* Always shorter than 3 m.

6.3 Operating frequencies

Source	Frequency, MHz					
Clock	27	24	64.1	NA	NA	NA
Internal generator	162	202	404	480	NA	NA
LO	846.6	NA	NA	NA	NA	NA
Tx	13.56	NA	NA	NA	NA	NA
Rx	434.1	NA	NA	NA	NA	NA

6.4 Test configuration





Test specification:	FCC Section 15.109 /ICES-003 Section 5.5/ RSS-Gen Section 7.2.3.2, Class B Radiated emission measurements		
Test procedure:	ANSI C63.4, Section 11.6/CAN/CSA-CEI/IEC CISPR 22, Section 6		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	8/31/2009 9:37:00 AM		
Temperature: 22 °C	Air Pressure: 1013 hPa	Relative Humidity: 44 %	Power Supply: 3.7 V battery
Remarks:			

7 Emissions tests according to FCC 47CFR part 15 subpart B / RSS-Gen / ICES-003 requirements

7.1 Radiated emission measurements

7.1.1 General

This test was performed to measure radiated emissions from the EUT enclosure. The specification test limits are given in Table 7.1.1, Table 7.1.2, Table 7.1.3.

Table 7.1.1 Radiated emission test limits according to FCC Part 15, Section 109

Frequency, MHz	Class B limit, dB(μV/m)		Class A limit, dB(μV/m)	
	10 m distance	3 m distance	10 m distance	3 m distance
30 - 88	29.5*	40.0	39.0	49.5*
88 - 216	33.0*	43.5	43.5	54.0*
216 - 960	35.5*	46.0	46.4	56.9*
Above 960	43.5*	54.0	49.5	60.0*

* - The limit for a test distance other than specified was calculated using the inverse linear distance extrapolation factor as follows: $\text{Lim}_{S_2} = \text{Lim}_{S_1} + 20 \log(S_1/S_2)$, where S_1 and S_2 – the standard defined and the test distance respectively in meters.

Table 7.1.2 Radiated disturbance test limits according to ICES-003, Section 5

Frequency, MHz	Class B limit, dB(μV/m)		Class A limit, dB(μV/m)	
	10 m distance	3 m distance	10 m distance	3 m distance
30 - 230	30.0	40.5*	40.0	50.5*
230 - 1000	37.0	47.5*	47.0	57.5*

* The limit for test distance other than specified was calculated using the inverse linear distance extrapolation factor as follows: $\text{Lim}_{S_2} = \text{Lim}_{S_1} + 20 \log(S_1/S_2)$, where S_1 and S_2 – standard defined and test distance respectively in meters.

Table 7.1.3 Radiated emission limits according to RSS-Gen, Section 7.2.3.2

Frequency, MHz	Field strength limit at 3 m test distance, dB(μV/m)
30 - 88	40.0
88 - 216	43.5
216 - 960	46.0
960 - 3 rd harmonic**	54.0

** - harmonic of the highest frequency the EUT generates, uses, operates or tunes to.

7.1.2 Test procedure

7.1.2.1 The EUT was set up as shown in Figure 7.1.1, energized and the EUT performance was checked.

7.1.2.2 The measurements were performed in the anechoic chamber at 3 m test distance. The specified frequency range was investigated with the antenna connected to the EMI receiver. To find the highest emission the turntable was rotated 360° and the measuring antenna height was swept from 1 to 4 m in both, vertical and horizontal polarizations. The EUT cables position was varied to maximize emission.

7.1.2.3 The worst test results with respect to the limits were recorded in Table 7.1.4, Table 7.1.5 and shown in the associated plots.

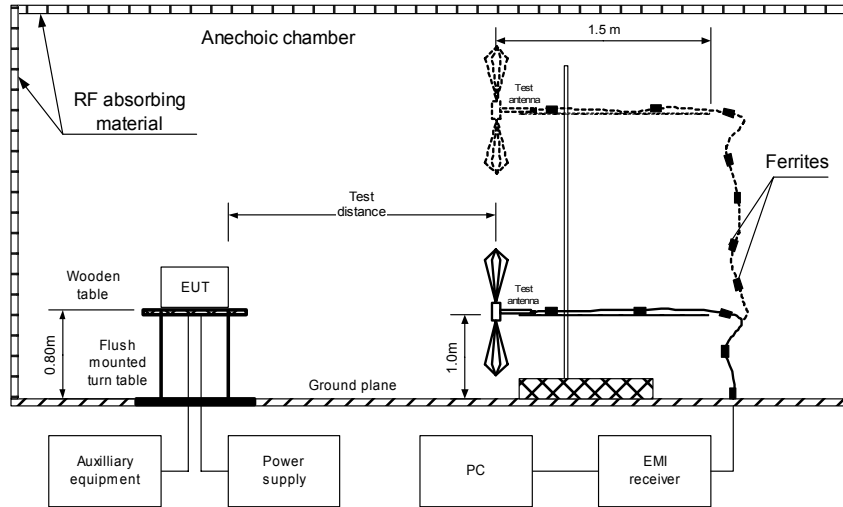


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Report ID: GIVEMC_FCC.19944.doc
Date of Issue: 8/31/2009

Test specification:	FCC Section 15.109 /ICES-003 Section 5.5/ RSS-Gen Section 7.2.3.2, Class B Radiated emission measurements		
Test procedure:	ANSI C63.4, Section 11.6/CAN/CSA-CEI/IEC CISPR 22, Section 6		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	8/31/2009 9:37:00 AM		
Temperature: 22 °C	Air Pressure: 1013 hPa	Relative Humidity: 44 %	Power Supply: 3.7 V battery
Remarks:			

Figure 7.1.1 Setup for radiated emission measurements in anechoic chamber, table-top EUT



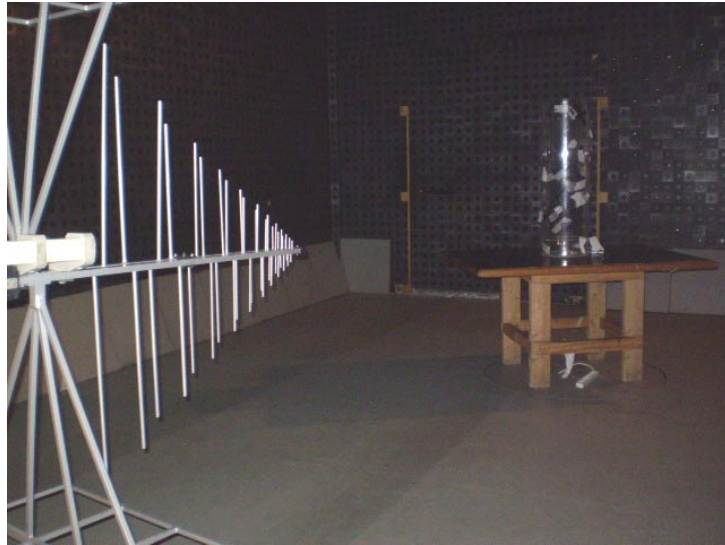


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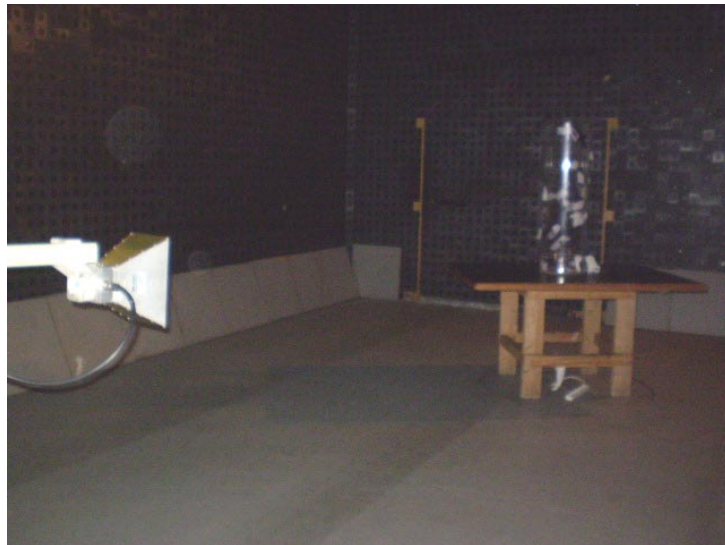
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Test procedure:	ANSI C63.4, Section 11.6/CAN/CSA-CEI/IEC CISPR 22, Section 6		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	8/31/2009 9:37:00 AM		
Temperature: 22 °C	Air Pressure: 1013 hPa	Relative Humidity: 44 %	Power Supply: 3.7 V battery
Remarks:			

Photograph 7.1.1 Setup for radiated emission measurements below 1 GHz



Photograph 7.1.2 Setup for radiated emission measurements above 1 GHz





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Test procedure:	ANSI C63.4, Section 11.6/CAN/CSA-CEI/IEC CISPR 22, Section 6		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	8/31/2009 9:37:00 AM		
Temperature: 22 °C	Air Pressure: 1013 hPa	Relative Humidity: 44 %	Power Supply: 3.7 V battery
Remarks:			

Table 7.1.4 Radiated emission test results according to FCC part 15 / RSS-Gen, Section 7.2.3.2 limit

EUT SET UP: TABLE-TOP
 EUT OPERATING MODE: Receive / standby
 TEST SITE: SEMI ANECHOIC CHAMBER
 TEST DISTANCE: 3 m
 FREQUENCY RANGE: 30 MHz – 1000 MHz
 DETECTORS USED: PEAK / QUASI-PEAK
 RESOLUTION BANDWIDTH: 120 kHz

Frequency, MHz	Peak emission, dB(μV/m)	Quasi-peak			Antenna polarization	Antenna height, m	Turn-table position**, degrees	Verdict
		Measured emission, dB(μV/m)	Limit, dB(μV/m)	Margin, dB*				
72.92	37.1	29.9	40.0	-10.1	Vertical	1.2	0	Pass
89.12	32.3	28.0	43.5	-15.5	Vertical	1.2	0	
105.32	29.1	26.1	43.5	-17.4	Vertical	1.2	0	
121.50	28.5	24.8	43.5	-18.7	Vertical	1.2	0	
137.70	31.2	23.2	43.5	-20.3	Horizontal	1.2	30	
234.90	32.5	26.7	46.0	-19.3	Horizontal	1.2	30	

FREQUENCY RANGE: 1000 MHz – 4000 MHz

DETECTORS USED: PEAK / AVERAGE

RESOLUTION BANDWIDTH: 1000 kHz

Frequency, MHz	Peak			Average			Antenna polarization	Antenna height, m	Turn-table position**, degrees	Verdict
	Measured emission, dB(μV/m)	Limit, dB(μV/m)	Margin, dB*	Measured emission, dB(μV/m)	Limit, dB(μV/m)	Margin, dB*				
No emissions were found.										Pass

*- Margin = Measured emission - specification limit.

**- EUT front panel refer to 0 degrees position of turntable.

Table 7.1.5 Radiated emission test results according to ICES-003, Section 5 limit

EUT SET UP: TABLE-TOP
 EUT OPERATING MODE: Receive / standby
 TEST SITE: SEMI ANECHOIC CHAMBER
 TEST DISTANCE: 3 m
 FREQUENCY RANGE: 30 MHz – 1000 MHz
 DETECTORS USED: PEAK / QUASI-PEAK
 RESOLUTION BANDWIDTH: 120 kHz

Frequency, MHz	Peak emission, dB(μV/m)	Quasi-peak			Antenna polarization	Antenna height, m	Turn-table position**, degrees	Verdict
		Measured emission, dB(μV/m)	Limit, dB(μV/m)	Margin, dB*				
72.92	37.1	29.9	40.5	-10.6	Vertical	1.2	0	Pass
89.12	32.3	28.0	40.5	-12.5	Vertical	1.2	0	
105.32	29.1	26.1	40.5	-14.4	Vertical	1.2	0	
121.50	28.5	24.8	40.5	-15.7	Vertical	1.2	0	
137.70	31.2	23.2	40.5	-17.3	Horizontal	1.2	30	
234.90	32.5	26.7	47.5	-20.8	Horizontal	1.2	30	

*- Margin = Measured emission - specification limit.

**- EUT front panel refer to 0 degrees position of turntable.

Reference numbers of test equipment used

HL 0465	HL 0521	HL 0589	HL 0593	HL 0594	HL 0604	HL 1947	HL 1984
HL 2009							

Full description is given in Appendix A.



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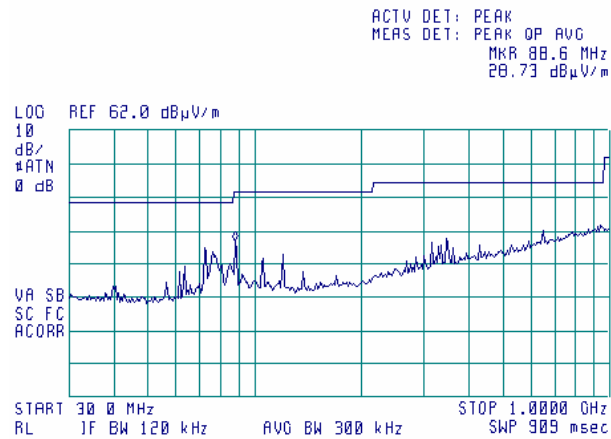
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Test specification:	FCC Section 15.109 /ICES-003 Section 5.5/ RSS-Gen Section 7.2.3.2, Class B Radiated emission measurements		
Test procedure:	ANSI C63.4, Section 11.6/CAN/CSA-CEI/IEC CISPR 22, Section 6		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	8/31/2009 9:37:00 AM		
Temperature: 22 °C	Air Pressure: 1013 hPa	Relative Humidity: 44 %	Power Supply: 3.7 V battery
Remarks:			

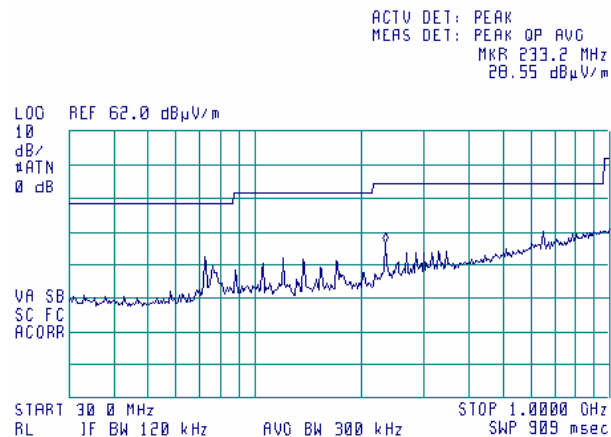
Plot 7.1.1 Radiated emission measurements in 30 - 1000 MHz range, vertical antenna polarization

TEST SITE: Semi anechoic chamber
TEST DISTANCE: 3 m
EUT OPERATING MODE: Receive / standby



Plot 7.1.2 Radiated emission measurements in 30 - 1000 MHz range, horizontal antenna polarization

TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
EUT OPERATING MODE: Receive / standby





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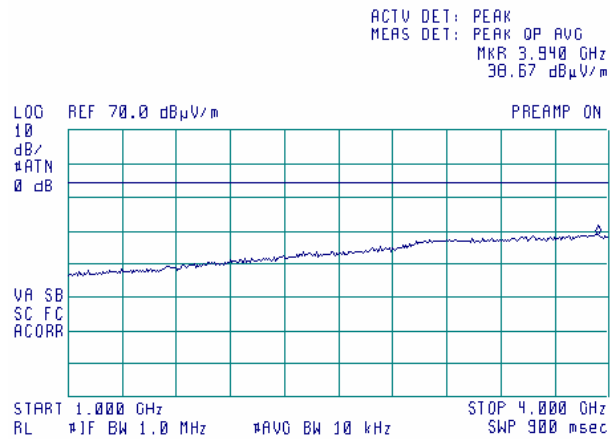
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Date of Issue: 8/31/2009

Test specification:	FCC Section 15.109 /ICES-003 Section 5.5/ RSS-Gen Section 7.2.3.2, Class B Radiated emission measurements		
Test procedure:	ANSI C63.4, Section 11.6/CAN/CSA-CEI/IEC CISPR 22, Section 6		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	8/31/2009 9:37:00 AM		
Temperature: 22 °C	Air Pressure: 1013 hPa	Relative Humidity: 44 %	Power Supply: 3.7 V battery
Remarks:			

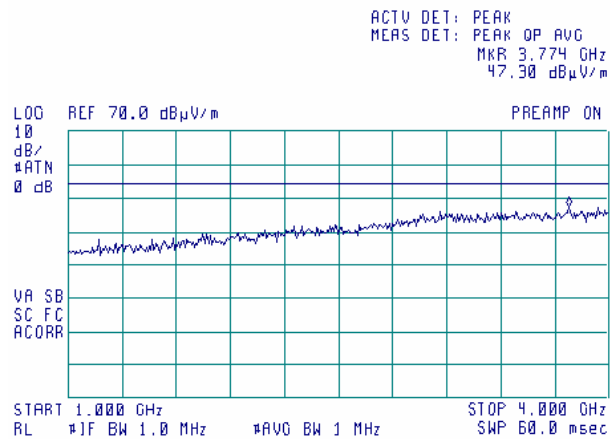
Plot 7.1.3 Radiated emission measurements in 1000 - 4000 MHz range, vertical antenna polarization

TEST SITE: Semi anechoic chamber
TEST DISTANCE: 3 m
EUT OPERATING MODE: Receive / standby



Plot 7.1.4 Radiated emission measurements in 1000 - 4000 MHz range, horizontal antenna polarization

TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
EUT OPERATING MODE: Receive / standby



**8 APPENDIX A Test equipment and ancillaries used for tests**

HL No	Description	Manufacturer	Model	Ser. No.	Last Cal.	Due Cal.
0465	Anechoic Chamber 9(L) x 6.5(W) x 5.5(H) m	Hermon Laboratories	AC - 1	023	11-Nov-08	11-Nov-09
0521	EMI Receiver (Spectrum Analyzer) with RF filter section 9 kHz-6.5 GHz	Agilent Technologies	8546A	3617A 00319, 3448A002 53	27-Aug-09	27-Aug-10
0589	Cable Coaxial, GORE A2P01POL118, 2.3 m, 6.5 GHz	Hermon Laboratories	GORE-3	176	01-Jan-09	01-Jan-10
0593	Antenna Mast, 1-4 m Pneumatic	Madgesh	AM-F1	101	03-Feb-09	03-Feb-10
0594	Turn Table FOR ANECHOIC CHAMBER flush mount d=1.2 m Pneumatic	Hermon Laboratories	TT-WDC1	102	12-Oct-08	12-Oct-09
0604	Antenna BiconiLog Log-Periodic/T Bow-TIE, 26 - 2000 MHz	EMCO	3141	9611-1011	11-Jan-09	11-Jan-10
1947	Cable 18GHz, 6.5 m, blue	Rhophase Microwave Limited	NPS-1803A-6500-NPS	T4974	01-Jan-09	01-Jan-10
1984	Antenna, Double-Ridged Waveguide Horn, 1-18 GHz, 300 W	EMC Test Systems	3115	9911-5964	23-Jan-09	23-Jan-10
2009	Cable RF, 8 m	Alpha Wire	RG-214	C-56	01-Jan-09	01-Jan-10

9 APPENDIX B Test laboratory description

Tests were performed at Hermon Laboratories Ltd., which is a fully independent, private, EMC, safety, environmental and telecommunication testing facility.

Hermon Laboratories is listed by the Federal Communications Commission (USA) for all parts of Code of Federal Regulations 47 (CFR 47), Registration Numbers 90624 for OATS and 90623 for the anechoic chamber; by Industry Canada for electromagnetic emissions (file numbers IC 2186A-1 for OATS and IC 2186A-2 for anechoic chamber), certified by VCCI, Japan (the registration numbers are R-808 for OATS, R-1082 for anechoic chamber, C-845 for conducted emissions site), has a status of a Telefication - Listed Testing Laboratory, Certificate No. L138/00; assessed by TNO Certification EP&S (Netherlands) for a number of EMC, telecommunications, environmental, safety standards, and by AMTAC (UK) for safety of medical devices. The laboratory is accredited by American Association for Laboratory Accreditation (USA) according to ISO/IEC 17025 for electromagnetic compatibility, product safety, telecommunications testing and environmental simulation (for exact scope please refer to Certificate No. 839.01).

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Person for contact: Mr. Alex Usoskin, CEO.

10 APPENDIX C Abbreviations and acronyms

A	ampere
AC	alternating current
A/m	ampere per meter
AM	amplitude modulation
AVRG	average (detector)
BB	broad band
cm	centimeter
dB	decibel
dBm	decibel referred to one milliwatt
dB(μV)	decibel referred to one microvolt
dB(μV/m)	decibel referred to one microvolt per meter
dB(μA)	decibel referred to one microampere
dBΩ	decibel referred to one Ohm
DC	direct current
EIRP	equivalent isotropically radiated power
ERP	effective radiated power
EUT	equipment under test
F	frequency
GHz	gigahertz
GND	ground
H	height
HL	Hermon laboratories
Hz	hertz
ITE	information technology equipment
k	kilo
kHz	kilohertz
LISN	line impedance stabilization network
LO	local oscillator
m	meter
MHz	megahertz
min	minute
mm	millimeter
ms	millisecond
μs	microsecond
NA	not applicable
NB	narrow band
NT	not tested
OATS	open area test site
Ω	Ohm
PCB	printed circuit board
PM	pulse modulation
PS	power supply
ppm	part per million (10 ⁻⁶)
QP	quasi-peak
RE	radiated emission
RF	radio frequency
rms	root mean square
Rx	receive
s	second
T	temperature
Tx	transmit
V	volt
VA	volt-ampere
WB	wideband



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11 APPENDIX D Test equipment correction factors

Antenna factor
Biconilog antenna EMCO Model 3141
Ser.No.1011, HL 0604

Frequency, MHz	Antenna Factor, dB(1/m)	Frequency, MHz	Antenna Factor, dB(1/m)
26	7.8	940	24.0
28	7.8	960	24.1
30	7.8	980	24.5
40	7.2	1000	24.9
60	7.1	1020	25.0
70	8.5	1040	25.2
80	9.4	1060	25.4
90	9.8	1080	25.6
100	9.7	1100	25.7
110	9.3	1120	26.0
120	8.8	1140	26.4
130	8.7	1160	27.0
140	9.2	1180	27.0
150	9.8	1200	26.7
160	10.2	1220	26.5
170	10.4	1240	26.5
180	10.4	1260	26.5
190	10.3	1280	26.6
200	10.6	1300	27.0
220	11.6	1320	27.8
240	12.4	1340	28.3
260	12.8	1360	28.2
280	13.7	1380	27.9
300	14.7	1400	27.9
320	15.2	1420	27.9
340	15.4	1440	27.8
360	16.1	1460	27.8
380	16.4	1480	28.0
400	16.6	1500	28.5
420	16.7	1520	28.9
440	17.0	1540	29.6
460	17.7	1560	29.8
480	18.1	1580	29.6
500	18.5	1600	29.5
520	19.1	1620	29.3
540	19.5	1640	29.2
560	19.8	1660	29.4
580	20.6	1680	29.6
600	21.3	1700	29.8
620	21.5	1720	30.3
640	21.2	1740	30.8
660	21.4	1760	31.1
680	21.9	1780	31.0
700	22.2	1800	30.9
720	22.2	1820	30.7
740	22.1	1840	30.6
760	22.3	1860	30.6
780	22.6	1880	30.6
800	22.7	1900	30.6
820	22.9	1920	30.7
840	23.1	1940	30.9
860	23.4	1960	31.2
880	23.8	1980	31.6
900	24.1	2000	32.0
920	24.1		

Antenna factor in dB(1/m) is to be added to receiver meter reading in dB(μ V) to convert it into field intensity in dB(μ V/m).

Antenna factor
Double-ridged wave guide horn antenna
Model 3115
Serial number: 9911-5964

Frequency, MHz	Antenna factor. dB(1/m)
1000.0	24.5
1500.0	24.8
2000.0	27.6
2500.0	28.7
3000.0	30.8
3500.0	32.9
4000.0	32.7
4500.0	32.0
5000.0	33.6
5500.0	35.3
6000.0	35.7
6500.0	35.8
7000.0	36.2
7500.0	37.2
8000.0	37.2
8500.0	38.1
9000.0	38.6
9500.0	38.3
10000.0	38.4
10500.0	38.3
11000.0	38.8
11500.0	39.9
12000.0	39.6
12500.0	39.5
13000.0	40.5
13500.0	41.1
14000.0	41.5
14500.0	40.8
15000.0	39.5
15500.0	38.1
16000.0	38.1
16500.0	40.1
17000.0	42.6
17500.0	45.4
18000.0	48.7

Antenna factor is to be added to receiver meter reading in dB(μ V) to convert it into field intensity in dB(μ V/m).

12 APPENDIX E Measurement uncertainties

Expanded uncertainty at 95% confidence in Hermon Labs EMC measurements

Test description	Expanded uncertainty
Conducted emissions with LISN	9 kHz to 150 kHz: ± 3.9 dB 150 kHz to 30 MHz: ± 3.8 dB
Radiated emissions at 10 m measuring distance Horizontal polarization Vertical polarization	Biconilog antenna: ± 5.0 dB Biconical antenna: ± 5.0 dB Log periodic antenna: ± 5.1 dB Double ridged horn antenna: ± 5.3 dB Biconilog antenna: ± 5.5 dB Biconical antenna: ± 5.5 dB Log periodic antenna: ± 5.6 dB Double ridged horn antenna: ± 5.8 dB
Radiated emissions at 3 m measuring distance Horizontal polarization Vertical polarization	Biconilog antenna: ± 5.3 dB Biconical antenna: ± 5.0 dB Log periodic antenna: ± 5.3 dB Double ridged horn antenna: ± 5.3 dB Biconilog antenna: ± 6.0 dB Biconical antenna: ± 5.7 dB Log periodic antenna: ± 6.0 dB Double ridged horn antenna: ± 6.0 dB

Hermon Laboratories is accredited by A2LA for calibration according to present requirements of ISO/IEC 17025 and NCSL Z540-1. The accreditation is granted to perform calibration of parameters that are listed in the Scope of Hermon Laboratories Accreditation.

Hermon Laboratories calibrates its reference and transfer standards by calibration laboratories accredited to ISO/IEC 17025 by a mutually recognized Accreditation Body or by a recognized national metrology institute. All reference and transfer standards used in the calibration system are traceable to national or international standards.

In-house calibration of all test and measurement equipment is performed on a regular basis according to Hermon Laboratories calibration procedures, manufacturer calibration/verification procedures or procedures defined in the relevant standards. The Hermon Laboratories test and measurement equipment is calibrated within the tolerances specified by the manufacturers and/or by the relevant standards.

13 APPENDIX F Specification references

FCC 47CFR part 15: 2008	Radio Frequency Devices.
ANSI C63.2: 1996	American National Standard for Instrumentation-Electromagnetic Noise and Field Strength, 10 kHz to 40 GHz-Specifications.
ANSI C63.4: 2003	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.
RSS-Gen Issue 2, September 2007	General Requirements and Information for the certification of Radiocommunication Equipment
ICES-003 Issue 4: 2004	Digital Apparatus
CAN/CSA-CEI/IEC CISPR 22: 2002	Information Technology Equipment- Radio Disturbance Characteristics- Limits and Methods of measurement
CISPR 16-1-1: 2006	Specification for radio disturbance and immunity measuring apparatus and methods. Part 1-1: Radio disturbance and immunity measuring apparatus – Measuring apparatus

END OF DOCUMENT