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# TEST REPORT

ACCORDING TO: FCC part 15 §15.207; subpart B

FOR:

**Motorola Israel Ltd.**  
**R765 iDEN, MOTotalk**  
**Transceiver with Bluetooth**  
**Model:H06XCN6JS9AN**

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:** Motorola Israel Ltd.  
**Address:** 3 Kremenetski street, P.O.B. 25016, 67899 Tel Aviv, Israel  
**Telephone:** +972 3565 8888  
**Fax:** +972 3565 9968  
**E-mail:** Teddy.Neeman@motorola.com  
**Contact name:** Mr. Teddy Neeman

## 2 Equipment under test attributes

**Product name:** r765 iDEN, MOTOtalk Transceiver with Bluetooth  
**Product type:** Transceiver  
**Model(s):** H06XCN6JS9AN  
**Receipt date:** 9/4/2008

## 3 Manufacturer information

**Manufacturer name:** Motorola Israel Ltd.  
**Address:** 3 Kremenetski street, P.O.B. 25016, 67899 Tel Aviv, Israel  
**Telephone:** +972 3565 8888  
**Fax:** +972 3565 9968  
**E-Mail:** Teddy.Neeman@motorola.com  
**Contact name:** Mr. Teddy Neeman

## 4 Test details

**Project ID:** 19051  
**Location:** Hermon Laboratories Ltd. Harakevet Industrial Zone, Binyamina 30500, Israel  
**Test started:** 9/4/2008  
**Test completed:** 9/25/2008  
**Test specification(s):** FCC part 15 §15.207, subpart B



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### 5 Tests summary

Test	Status
Section 15.207(a), Conducted emission	Pass
Section 15.107, Conducted emission	Pass
Section 15.109, Radiated emission	Pass

The test results relate only to the items tested. Pass/ fail decision was based on nominal values.

	Name and Title	Date	Signature
<b>Tested by:</b>	Mr. L. Markel, test engineer	September 25, 2008	
<b>Reviewed by:</b>	Mrs. M. Cherniavsky, certification engineer	September 25, 2008	
<b>Approved by:</b>	Mr. M. Nikishin, EMC and radio group leader	September 26, 2008	

## 6 EUT description

### 6.1 General information

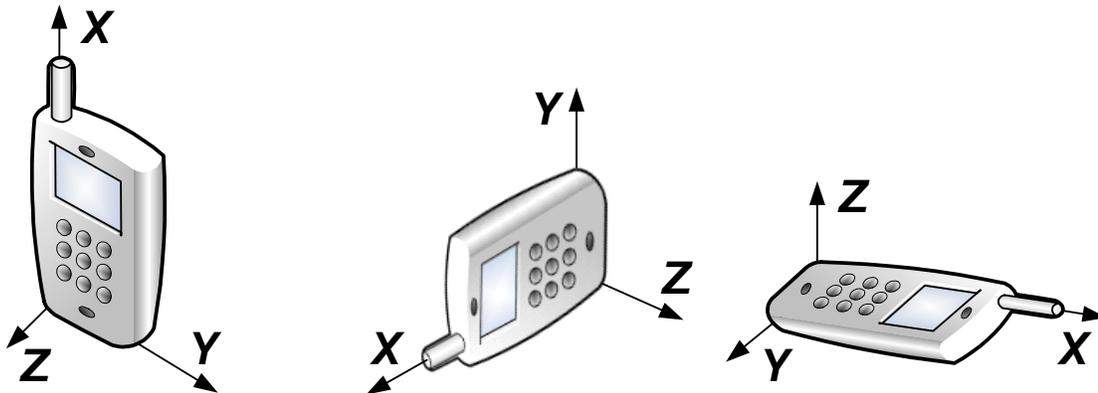
The EUT is a battery-powered hand-held radio transceiver for iDEN digital cellular networks. It also includes MOTOtalk digital walkie-talkie option and Bluetooth (R).

The devices are rugged and durable monolith handsets targeted towards industrial, petrochemical and utility companies. Industries that use these handsets are manufacturing, construction, transportation and distribution. The handsets shall be certified for military specification requirements including humidity, shock and vibration and blowing rain.

The EUT is powered by 7.4 V rechargeable battery.

### 6.2 EUT positions

The EUT was tested in 3 orthogonal positions and maximum power was found at Z-axis orientation.



<b>Test specification:</b>		<b>Sections 15.207(a), 15.107, Conducted emission</b>	
<b>Test procedure:</b>		ANSI C63.4, Section 13.1.3	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date &amp; Time:</b>	9/23/2008 2:07:20 PM		
<b>Temperature:</b> 26°C	<b>Air Pressure:</b> 1014 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> 6 units cradle			

## 7 Emission tests

### 7.1 Conducted emissions

#### 7.1.1 General

This test was performed to measure common mode conducted emissions at the power port. Specification test limits are given in Table 7.1.1.

**Table 7.1.1 Limits for conducted emissions**

Frequency, MHz	Class B limit, dB(μV)	
	QP	AVRG
0.15 - 0.5	66 - 56*	56 - 46*
0.5 - 5.0	56	46
5.0 - 30	60	50

\* The limit decreases linearly with the logarithm of frequency.

#### 7.1.2 Test procedure

**7.1.2.1** The EUT was set up as shown in Figure 7.1.1 and associated photographs, energized and the performance check was conducted.

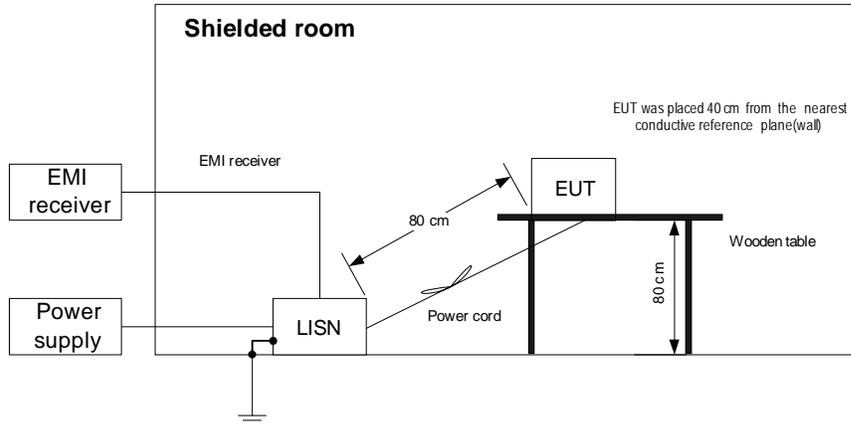
**7.1.2.2** The measurements were performed at power terminals with the LISN, connected to a spectrum analyzer in the frequency range referred to in Table 7.1.2. Unused coaxial connector of the LISN was terminated with 50 Ohm. Quasi-peak and average detectors were used throughout the testing.

**7.1.2.3** The position of the device cables was varied to determine maximum emission level.

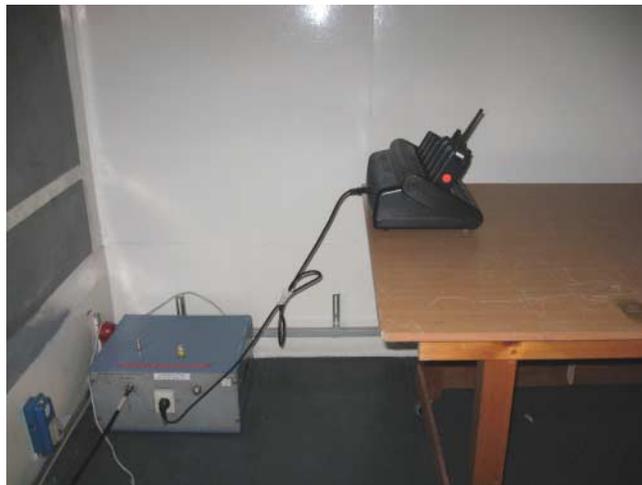
**7.1.2.4** The worst test results (the lowest margins) were recorded in Table 7.1.2 and shown in the associated plots.

<b>Test specification:</b>	<b>Sections 15.207(a), 15.107, Conducted emission</b>		
<b>Test procedure:</b>	ANSI C63.4, Section 13.1.3		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date &amp; Time:</b>	9/23/2008 2:07:20 PM		
<b>Temperature:</b> 26°C	<b>Air Pressure:</b> 1014 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> 6 units cradle			

Figure 7.1.1 Setup for conducted emission measurements, table-top equipment



Photograph 7.1.1 Setup for conducted emission measurements





<b>Test specification:</b>	<b>Sections 15.207(a), 15.107, Conducted emission</b>		
<b>Test procedure:</b>	ANSI C63.4, Section 13.1.3		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date &amp; Time:</b>	9/23/2008 2:07:20 PM		
<b>Temperature:</b> 26°C	<b>Air Pressure:</b> 1014 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> 6 units cradle			

Photograph 7.1.2 Setup for conducted emission measurements, EUT close view





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<b>Test specification:</b> Sections 15.207(a), 15.107, Conducted emission			
<b>Test procedure:</b> ANSI C63.4, Section 13.1.3			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date &amp; Time:</b> 9/23/2008 2:07:20 PM			
<b>Temperature:</b> 26°C	<b>Air Pressure:</b> 1014 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> 6 units cradle			

Table 7.1.2 Conducted emission test results

LINE: AC mains  
 EUT OPERATING MODE: Transmit/Receive  
 EUT SET UP: TABLE-TOP  
 TEST SITE: SHIELDED ROOM  
 DETECTORS USED: PEAK / QUASI-PEAK / AVERAGE  
 FREQUENCY RANGE: 150 kHz - 30 MHz  
 RESOLUTION BANDWIDTH: 9 kHz

Frequency, MHz	Peak emission, dB(μV)	Quasi-peak			Average			Line ID	Verdict
		Measured emission, dB(μV)	Limit, dB(μV)	Margin, dB*	Measured emission, dB(μV)	Limit, dB(μV)	Margin, dB*		
0.181425	51.37	47.89	64.47	-16.58	40.94	54.47	-13.53	L1	Pass
0.272338	58.70	54.56	61.11	-6.55	47.20	51.11	-3.91		
0.363000	60.38	52.02	58.71	-6.69	41.91	48.71	-6.80		
0.454876	53.08	49.44	56.84	-7.40	43.75	46.84	-3.09		
0.545300	43.10	38.67	56.00	-17.33	33.59	46.00	-12.41		
0.826950	45.79	41.25	56.00	-14.75	34.93	46.00	-11.07		
1.105375	43.50	38.50	56.00	-17.50	32.90	46.00	-13.10	L2	Pass
0.183025	51.99	48.12	64.39	-16.27	39.73	54.39	-14.66		
0.273875	58.84	54.52	61.06	-6.54	45.76	51.06	-5.30		
0.365450	51.52	55.10	58.66	-3.56	48.00	48.66	-0.66		
0.457150	52.59	49.20	56.80	-7.60	44.00	46.80	-2.80		
0.829238	44.75	41.53	56.00	-14.47	35.19	46.00	-10.81		
0.921100	43.56	39.34	56.00	-16.66	32.24	46.00	-13.76		

\*- Margin = Measured emission - specification limit.

Reference numbers of test equipment used

HL 0447	HL 1430	HL 1500					
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Full description is given in Appendix A.

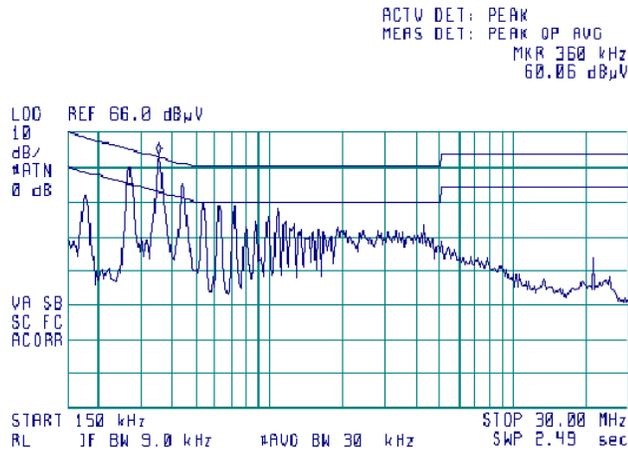


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<b>Test specification:</b> Sections 15.207(a), 15.107, Conducted emission			
<b>Test procedure:</b> ANSI C63.4, Section 13.1.3			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date &amp; Time:</b> 9/23/2008 2:07:20 PM			
<b>Temperature:</b> 26°C	<b>Air Pressure:</b> 1014 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> 6 units cradle			

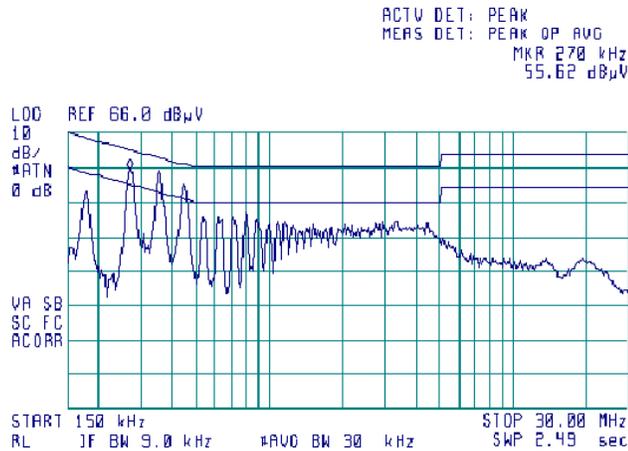
**Plot 7.1.1 Conducted emission measurements**

LINE: L1  
EUT OPERATING MODE: 6-units cradle, 6 empty batteries  
LIMIT: QUASI-PEAK, AVERAGE  
DETECTOR: PEAK



**Plot 7.1.2 Conducted emission measurements**

LINE: L2  
EUT OPERATING MODE: 6-units cradle, 6 empty batteries  
LIMIT: QUASI-PEAK, AVERAGE  
DETECTOR: PEAK



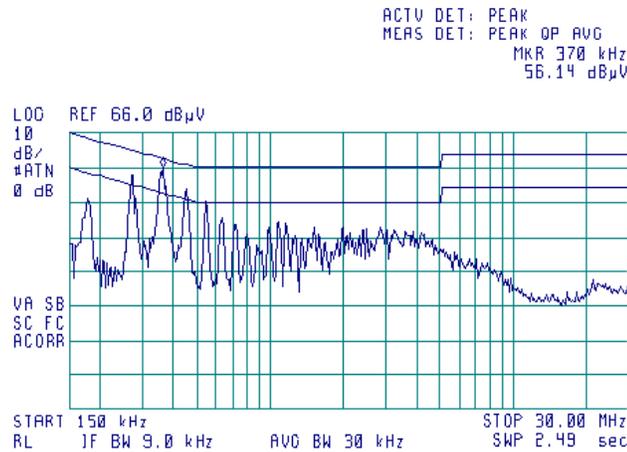


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<b>Test specification:</b>	<b>Sections 15.207(a), 15.107, Conducted emission</b>		
<b>Test procedure:</b>	ANSI C63.4, Section 13.1.3		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date &amp; Time:</b>	9/23/2008 2:07:20 PM		
<b>Temperature:</b> 26°C	<b>Air Pressure:</b> 1014 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> 6 units cradle			

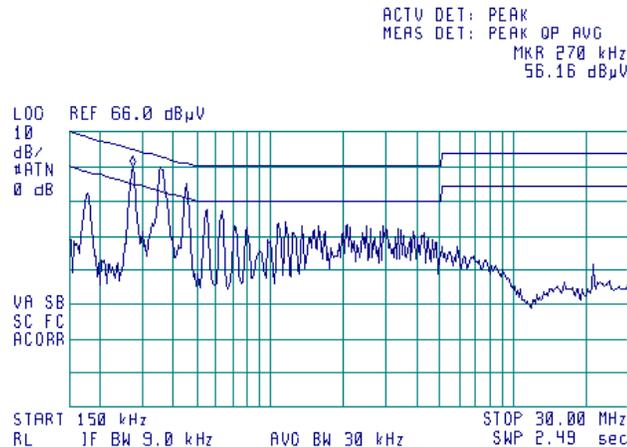
**Plot 7.1.3 Conducted emission measurements**

LINE: L1  
EUT OPERATING MODE: 6-units cradle, 1 empty battery  
LIMIT: QUASI-PEAK, AVERAGE  
DETECTOR: PEAK



**Plot 7.1.4 Conducted emission measurements**

LINE: L2  
EUT OPERATING MODE: 6-units cradle, 1 empty battery  
LIMIT: QUASI-PEAK, AVERAGE  
DETECTOR: PEAK



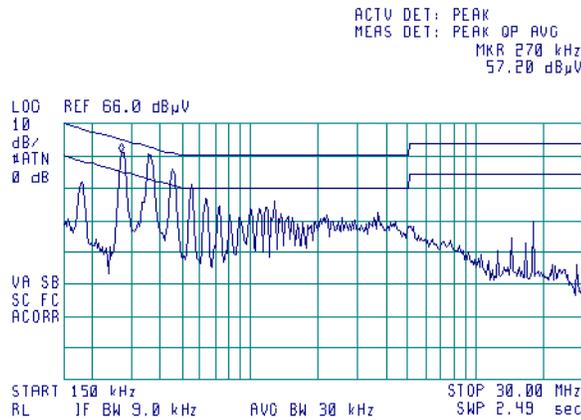


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<b>Test specification:</b> Sections 15.207(a), 15.107, Conducted emission			
<b>Test procedure:</b> ANSI C63.4, Section 13.1.3			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date &amp; Time:</b> 9/23/2008 2:07:20 PM			
<b>Temperature:</b> 26°C	<b>Air Pressure:</b> 1014 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> 6 units cradle			

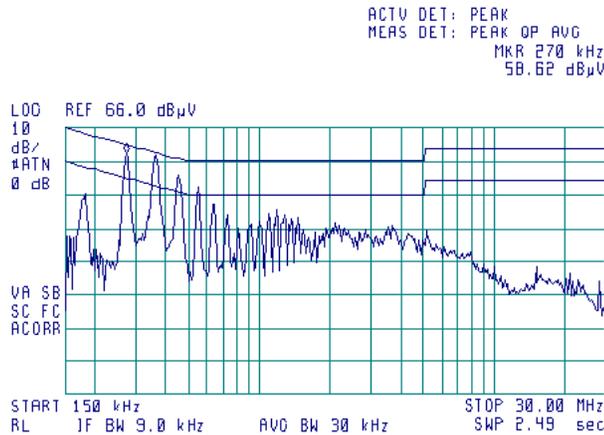
**Plot 7.1.5 Conducted emission measurements**

LINE: L1  
EUT OPERATING MODE: 6-units cradle, 6 fully charged batteries, one EUT in transmit mode, one EUT in receive mode  
LIMIT: QUASI-PEAK, AVERAGE  
DETECTOR: PEAK



**Plot 7.1.6 Conducted emission measurements**

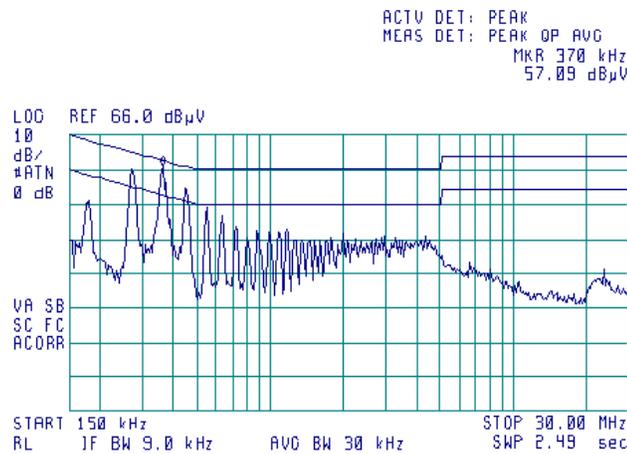
LINE: L2  
EUT OPERATING MODE: 6-units cradle, 6 fully charged batteries, one EUT in transmit mode, one EUT in receive mode  
LIMIT: QUASI-PEAK, AVERAGE  
DETECTOR: PEAK



<b>Test specification:</b> Sections 15.207(a), 15.107, Conducted emission			
<b>Test procedure:</b> ANSI C63.4, Section 13.1.3			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date &amp; Time:</b> 9/23/2008 2:07:20 PM			
<b>Temperature:</b> 26°C	<b>Air Pressure:</b> 1014 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> 6 units cradle			

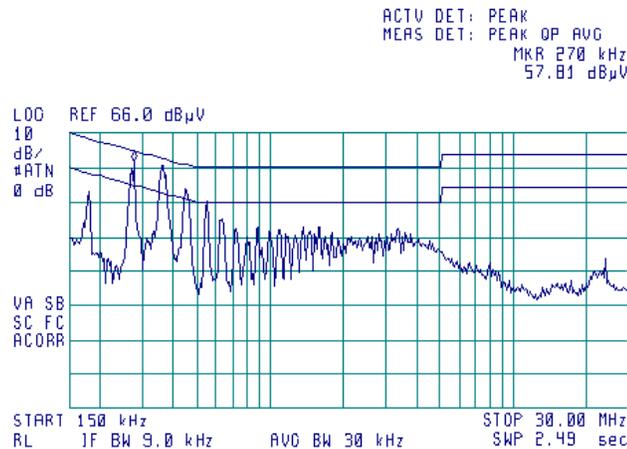
**Plot 7.1.7 Conducted emission measurements**

LINE: L1  
 EUT OPERATING MODE: 6-units cradle, 1 fully charged battery, one EUT in Tx mode  
 LIMIT: QUASI-PEAK, AVERAGE  
 DETECTOR: PEAK



**Plot 7.1.8 Conducted emission measurements**

LINE: L2  
 EUT OPERATING MODE: 6-units cradle, 1 fully charged battery one EUT in Tx mode  
 LIMIT: QUASI-PEAK, AVERAGE  
 DETECTOR: PEAK



<b>Test specification:</b>		<b>Sections 15.207(a), 15.107, Conducted emission</b>	
<b>Test procedure:</b>		ANSI C63.4, Section 13.1.3	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date &amp; Time:</b>	9/23/2008 2:20:58 PM		
<b>Temperature:</b> 26°C	<b>Air Pressure:</b> 1014 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> Single charger			

## 7.2 Conducted emissions

### 7.2.1 General

This test was performed to measure common mode conducted emissions at the power port. Specification test limits are given in Table 7.2.1.

**Table 7.2.1 Limits for conducted emissions**

Frequency, MHz	Class B limit, dB(μV)	
	QP	AVRG
0.15 - 0.5	66 - 56*	56 - 46*
0.5 - 5.0	56	46
5.0 - 30	60	50

\* The limit decreases linearly with the logarithm of frequency.

### 7.2.2 Test procedure

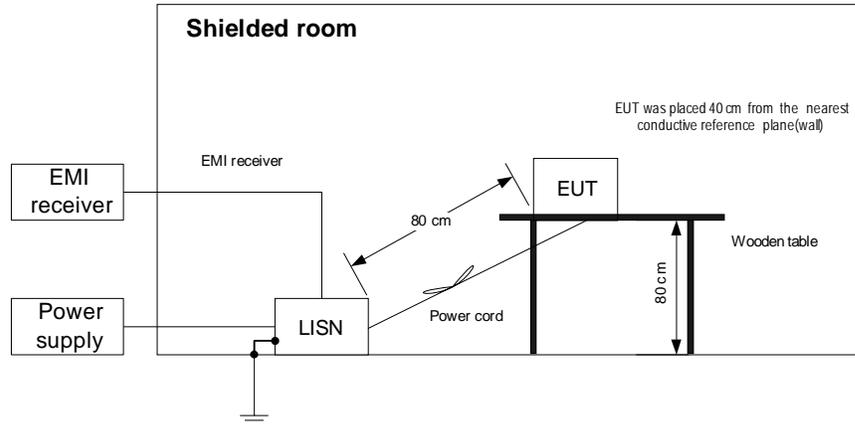
**7.2.2.1** The EUT was set up as shown in Figure 7.2.1 and associated photographs, energized and the performance check was conducted.

**7.2.2.2** The measurements were performed at power terminals with the LISN, connected to a spectrum analyzer in the frequency range referred to in Table 7.2.2. Unused coaxial connector of the LISN was terminated with 50 Ohm. Quasi-peak and average detectors were used throughout the testing.

**7.2.2.3** The position of the device cables was varied to determine maximum emission level. The worst test results (the lowest margins) were recorded in Table 7.2.2 and shown in the associated plots.

<b>Test specification:</b>	<b>Sections 15.207(a), 15.107, Conducted emission</b>		
<b>Test procedure:</b>	ANSI C63.4, Section 13.1.3		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date &amp; Time:</b>	9/23/2008 2:20:58 PM		
<b>Temperature:</b> 26°C	<b>Air Pressure:</b> 1014 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> Single charger			

Figure 7.2.1 Setup for conducted emission measurements, table-top equipment



Photograph 7.2.1 Setup for conducted emission measurements





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<b>Test specification:</b>	<b>Sections 15.207(a), 15.107, Conducted emission</b>		
<b>Test procedure:</b>	ANSI C63.4, Section 13.1.3		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date &amp; Time:</b>	9/23/2008 2:20:58 PM		
<b>Temperature:</b> 26°C	<b>Air Pressure:</b> 1014 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> Single charger			

Photograph 7.2.2 Setup for conducted emission measurements





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<b>Test specification:</b> Sections 15.207(a), 15.107, Conducted emission			
<b>Test procedure:</b> ANSI C63.4, Section 13.1.3			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date &amp; Time:</b> 9/23/2008 2:20:58 PM			
<b>Temperature:</b> 26°C	<b>Air Pressure:</b> 1014 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> Single charger			

Table 7.2.2 Conducted emission test results

LINE: AC mains  
 EUT OPERATING MODE: Transmit/Full/Empty battery/Stand-by/Receive  
 EUT SET UP: TABLE-TOP  
 TEST SITE: SHIELDED ROOM  
 DETECTORS USED: PEAK / QUASI-PEAK / AVERAGE  
 FREQUENCY RANGE: 150 kHz - 30 MHz  
 RESOLUTION BANDWIDTH: 9 kHz

Frequency, MHz	Peak emission, dB(μV)	Quasi-peak			Average			Line ID	Verdict
		Measured emission, dB(μV)	Limit, dB(μV)	Margin, dB*	Measured emission, dB(μV)	Limit, dB(μV)	Margin, dB*		
0.177730	49.54	46.72	64.65	-17.93	35.93	54.65	-18.72	L1	Pass
0.193730	48.54	47.57	63.90	-16.33	38.98	53.90	-14.92		
0.258513	44.17	41.36	61.53	-20.17	32.47	51.53	-19.06		
0.451850	41.97	40.28	56.90	-16.62	37.37	46.90	-9.53		
0.581100	37.07	34.94	56.00	-21.06	33.11	46.00	-12.89		
0.150000	48.80	47.89	66.00	-18.11	35.41	56.00	-20.59	L2	Pass
0.157650	48.53	45.70	65.60	-19.90	30.70	55.60	-24.90		
0.192851	50.76	48.04	63.93	-15.89	38.09	53.93	-15.84		
0.200375	43.49	42.05	63.64	-21.59	32.23	53.64	-21.41		
0.247230	44.98	42.04	61.87	-19.83	29.61	51.87	-22.26		
0.291028	38.97	36.62	60.54	-23.92	25.90	50.54	-24.64		
0.451305	41.91	40.23	56.91	-16.68	37.32	46.91	-9.59		

\*- Margin = Measured emission - specification limit.

Reference numbers of test equipment used

HL 0415	HL 0477	HL 0580	HL 1430	HL 3175			
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Full description is given in Appendix A.

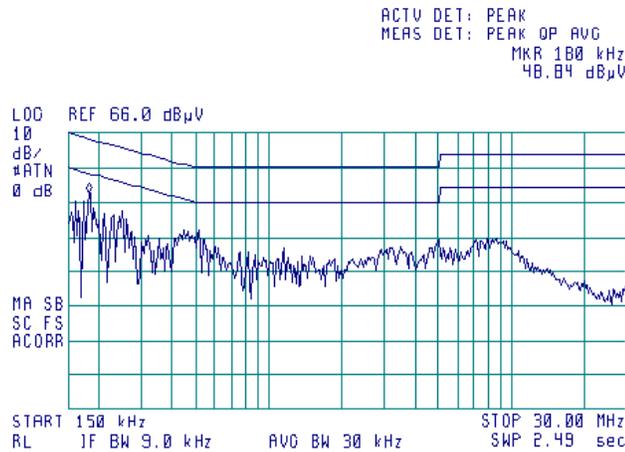


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<b>Test specification:</b> Sections 15.207(a), 15.107, Conducted emission			
<b>Test procedure:</b> ANSI C63.4, Section 13.1.3			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date &amp; Time:</b> 9/23/2008 2:20:58 PM			
<b>Temperature:</b> 26°C	<b>Air Pressure:</b> 1014 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> Single charger			

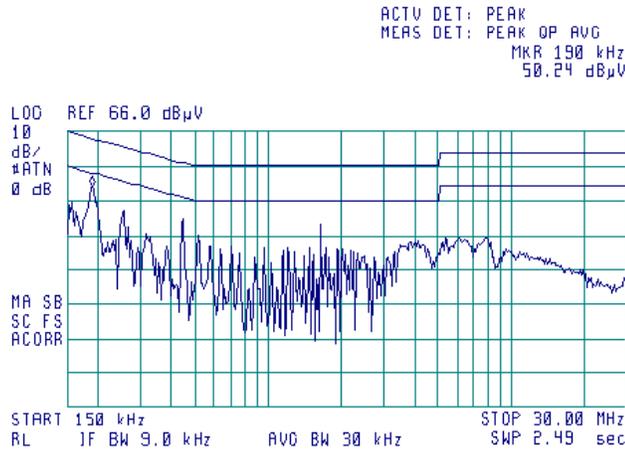
**Plot 7.2.1 Conducted emission measurements**

LINE: L1  
EUT OPERATING MODE: Empty battery alone  
LIMIT: QUASI-PEAK, AVERAGE  
DETECTOR: PEAK



**Plot 7.2.2 Conducted emission measurements**

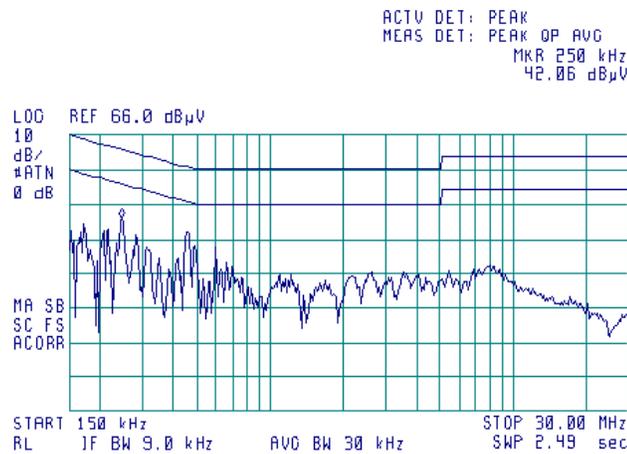
LINE: L2  
EUT OPERATING MODE: Empty battery alone  
LIMIT: QUASI-PEAK, AVERAGE  
DETECTOR: PEAK



<b>Test specification:</b> Sections 15.207(a), 15.107, Conducted emission			
<b>Test procedure:</b> ANSI C63.4, Section 13.1.3			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date &amp; Time:</b> 9/23/2008 2:20:58 PM			
<b>Temperature:</b> 26°C	<b>Air Pressure:</b> 1014 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> Single charger			

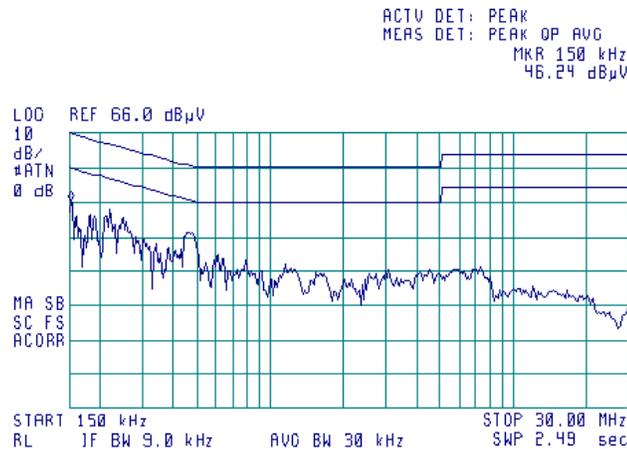
**Plot 7.2.3 Conducted emission measurements**

LINE: L1  
EUT OPERATING MODE: Full battery alone  
LIMIT: QUASI-PEAK, AVERAGE  
DETECTOR: PEAK



**Plot 7.2.4 Conducted emission measurements**

LINE: L2  
EUT OPERATING MODE: Full battery alone  
LIMIT: QUASI-PEAK, AVERAGE  
DETECTOR: PEAK





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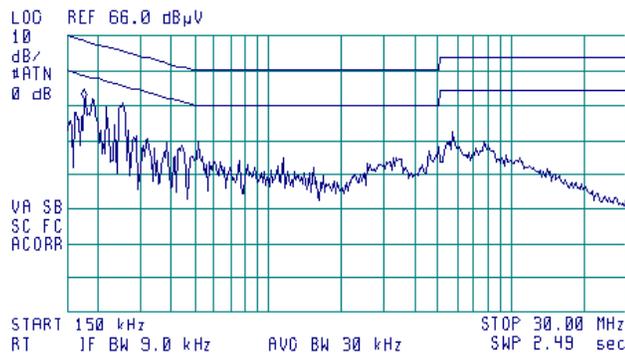
<b>Test specification:</b> Sections 15.207(a), 15.107, Conducted emission			
<b>Test procedure:</b> ANSI C63.4, Section 13.1.3			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date &amp; Time:</b> 9/23/2008 2:20:58 PM			
<b>Temperature:</b> 26°C	<b>Air Pressure:</b> 1014 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> Single charger			

**Plot 7.2.5 Conducted emission measurements**

LINE: L1  
 EUT OPERATING MODE: Full battery, Transmit mode  
 LIMIT: QUASI-PEAK, AVERAGE  
 DETECTOR: PEAK



ACTV DET: PEAK  
 MEAS DET: PEAK QP AVG  
 MKR 180 kHz  
 47.73 dBμV

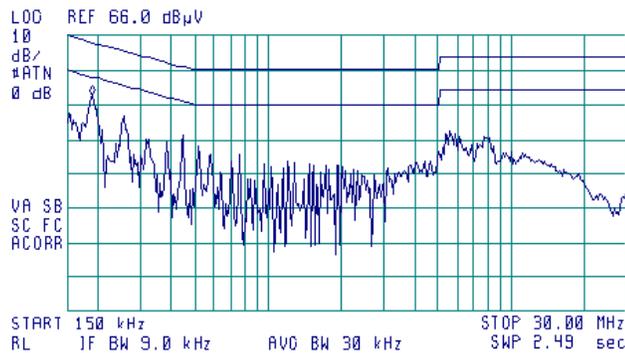


**Plot 7.2.6 Conducted emission measurements**

LINE: L2  
 EUT OPERATING MODE: Full battery, Transmit mode  
 LIMIT: QUASI-PEAK, AVERAGE  
 DETECTOR: PEAK



ACTV DET: PEAK  
 MEAS DET: PEAK QP AVG  
 MKR 190 kHz  
 48.74 dBμV





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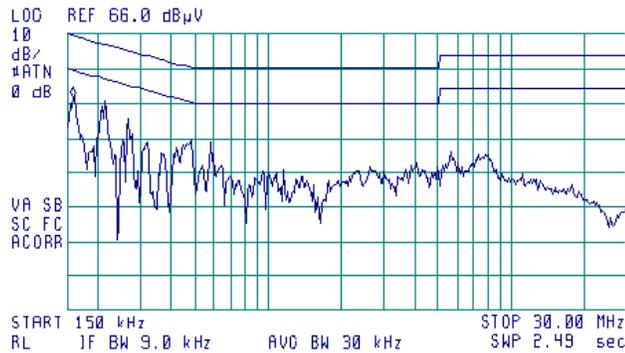
<b>Test specification:</b> Sections 15.207(a), 15.107, Conducted emission			
<b>Test procedure:</b> ANSI C63.4, Section 13.1.3			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date &amp; Time:</b> 9/23/2008 2:20:58 PM			
<b>Temperature:</b> 26°C	<b>Air Pressure:</b> 1014 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> Single charger			

Plot 7.2.7 Conducted emission measurements

LINE: L1  
 EUT OPERATING MODE: Full battery, Idle mode  
 LIMIT: QUASI-PEAK, AVERAGE  
 DETECTOR: PEAK



ACTV DET: PEAK  
 MEAS DET: PEAK QP AVG  
 MKR 150 kHz  
 47.82 dBµV

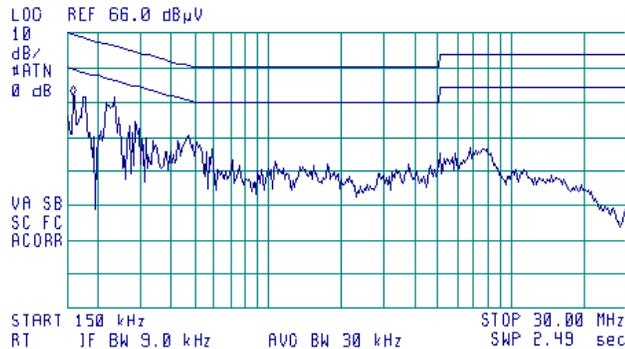


Plot 7.2.8 Conducted emission measurements

LINE: L2  
 EUT OPERATING MODE: Full battery, Idle mode  
 LIMIT: QUASI-PEAK, AVERAGE  
 DETECTOR: PEAK



ACTV DET: PEAK  
 MEAS DET: PEAK QP AVG  
 MKR 150 kHz  
 48.13 dBµV



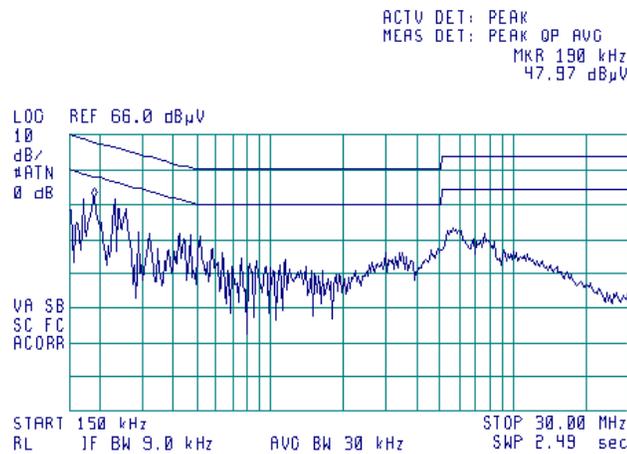


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<b>Test specification:</b> Sections 15.207(a), 15.107, Conducted emission			
<b>Test procedure:</b> ANSI C63.4, Section 13.1.3			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date &amp; Time:</b> 9/23/2008 2:20:58 PM			
<b>Temperature:</b> 26°C	<b>Air Pressure:</b> 1014 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> Single charger			

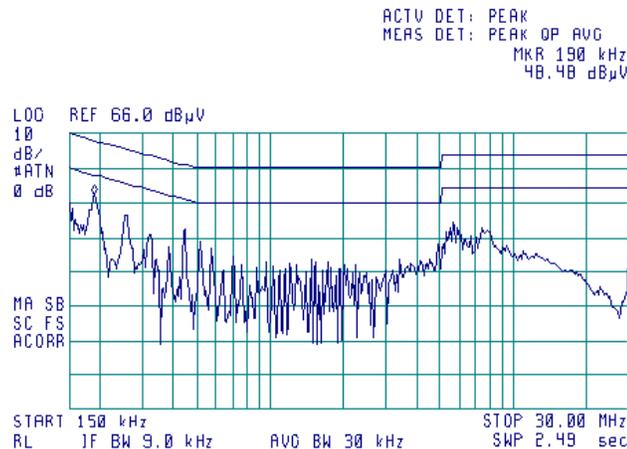
Plot 7.2.9 Conducted emission measurements

LINE: L1  
 EUT OPERATING MODE: Empty battery, stand by mode  
 LIMIT: QUASI-PEAK, AVERAGE  
 DETECTOR: PEAK



Plot 7.2.10 Conducted emission measurements

LINE: L2  
 EUT OPERATING MODE: Empty battery, stand by mode  
 LIMIT: QUASI-PEAK, AVERAGE  
 DETECTOR: PEAK



<b>Test specification:</b> Section 15.109, Radiated emission			
<b>Test procedure:</b> ANSI C63.4, Sections 11.6 and 12.1.4			
<b>Test mode:</b> Compliance			<b>Verdict:</b> PASS
<b>Date &amp; Time:</b> 9/23/2008 2:29:46 PM			
<b>Temperature:</b> 26°C	<b>Air Pressure:</b> 1014 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> Battery
<b>Remarks:</b> BT receive mode			

### 7.3 Radiated emission measurements

#### 7.3.1 General

This test was performed to measure radiated emissions from the EUT enclosure. Specification test limits are given in Table 7.3.1.

Table 7.3.1 Radiated emission test limits

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*

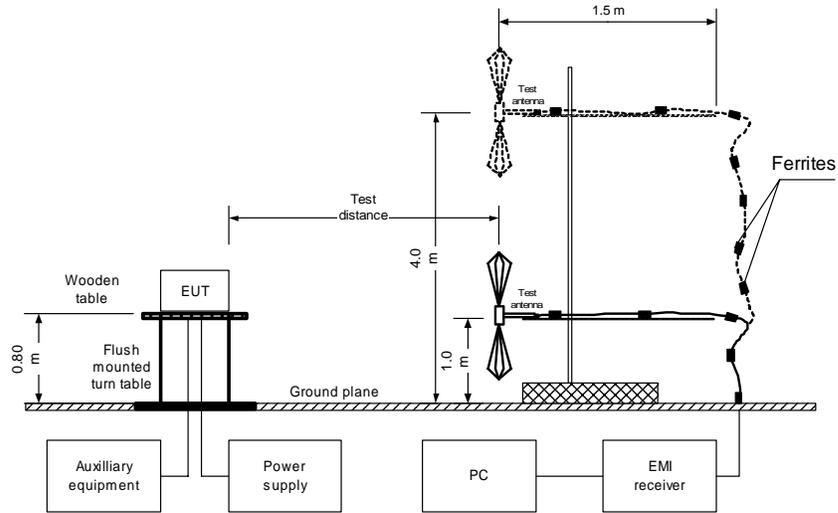
\* The limit for test distance other than specified was calculated using the inverse linear distance extrapolation factor as follows:  $Lim_{S_2} = Lim_{S_1} + 20 \log(S_1/S_2)$ , where  $S_1$  and  $S_2$  – standard defined and test distance respectively in meters.

#### 7.3.2 Test procedure for measurements in semi-anechoic chamber

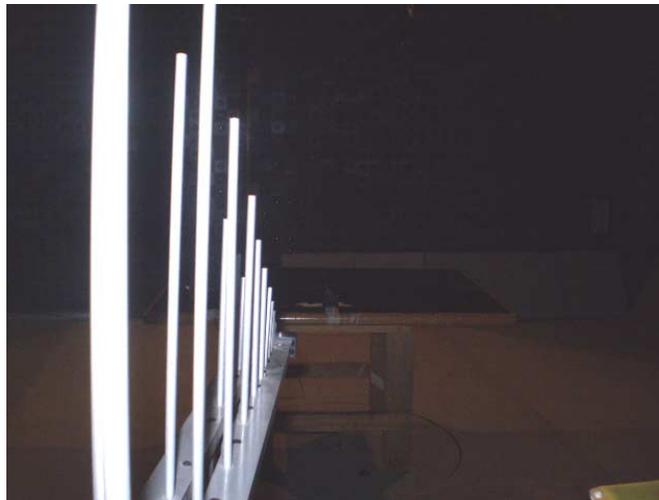
- 7.3.2.1 The EUT was set up as shown in Figure 7.3.1 and associated photographs, energized and the performance check was conducted.
- 7.3.2.2 The specified frequency range was investigated with biconilog antenna connected to EMI receiver. To find maximum radiation the turntable was rotated 360°, the measuring antenna height was changed from 1 to 4 m, its polarization was switched from vertical to horizontal and the EUT cables position was varied.
- 7.3.2.3 The worst test results (the lowest margins) were recorded in Table 7.3.2 and shown in the associated plots.

<b>Test specification:</b> Section 15.109, Radiated emission			
<b>Test procedure:</b> ANSI C63.4, Sections 11.6 and 12.1.4			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date &amp; Time:</b> 9/23/2008 2:29:46 PM			
<b>Temperature:</b> 26°C	<b>Air Pressure:</b> 1014 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> Battery
<b>Remarks:</b> BT receive mode			

Figure 7.3.1 Setup for radiated emission measurements at Semi Anechoic Chamber, table-top equipment



Photograph 7.3.1 Setup for radiated emission measurements, general view



<b>Test specification:</b>	<b>Section 15.109, Radiated emission</b>		
<b>Test procedure:</b>	ANSI C63.4, Sections 11.6 and 12.1.4		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date &amp; Time:</b>	9/23/2008 2:29:46 PM		
<b>Temperature:</b> 26°C	<b>Air Pressure:</b> 1014 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> Battery
<b>Remarks:</b> BT receive mode			

Photograph 7.3.2 Setup for radiated emission measurements, general view



Photograph 7.3.3 Setup for radiated emission measurements, EUT close view





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<b>Test specification:</b>		<b>Section 15.109, Radiated emission</b>	
<b>Test procedure:</b>		ANSI C63.4, Sections 11.6 and 12.1.4	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date &amp; Time:</b>	9/23/2008 2:29:46 PM		
<b>Temperature:</b> 26°C	<b>Air Pressure:</b> 1014 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> Battery
<b>Remarks:</b> BT receive mode			

Table 7.3.2 Radiated emission test results

EUT SET UP: TABLE-TOP  
LIMIT: Class B  
EUT OPERATING MODE: Receive  
TEST SITE: SEMI ANECHOIC CHAMBER  
TEST DISTANCE: 3 m  
DETECTORS USED: PEAK / QUASI-PEAK  
FREQUENCY RANGE: 30 MHz – 1000 MHz  
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*				
All emissions are at least 20 dB below the specified limit								Pass

TEST SITE: SEMI ANECHOIC CHAMBER  
TEST DISTANCE: 3 m  
DETECTORS USED: PEAK / AVERAGE  
FREQUENCY RANGE: 1000 MHz – 5000 MHz  
RESOLUTION BANDWIDTH: 1000 kHz

Frequency, MHz	Peak emission, dB(µV/m)	Average			Antenna polarization	Antenna height, m	Turn-table position**, degrees	Verdict
		Measured emission, dB(µV/m)	Limit, dB(µV/m)	Margin, dB*				
2439.550	48.2	41.40	54.00	-12.60	H	1.5	340	Pass

\*- Margin = Measured emission - specification limit.  
\*\*- EUT front panel refer to 0 degrees position of turntable.

Reference numbers of test equipment used

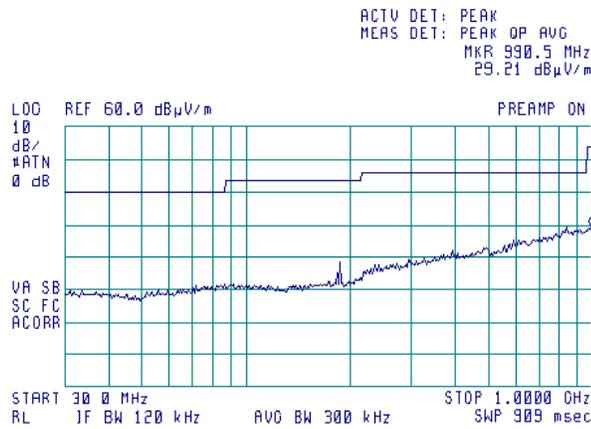
HL 0521	HL 0604	HL 1947	HL 2432	HL 3123			
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Full description is given in Appendix A.

<b>Test specification:</b> Section 15.109, Radiated emission			
<b>Test procedure:</b> ANSI C63.4, Sections 11.6 and 12.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date &amp; Time:</b> 9/23/2008 2:29:46 PM			
<b>Temperature:</b> 26°C	<b>Air Pressure:</b> 1014 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> Battery
<b>Remarks:</b> BT receive mode			

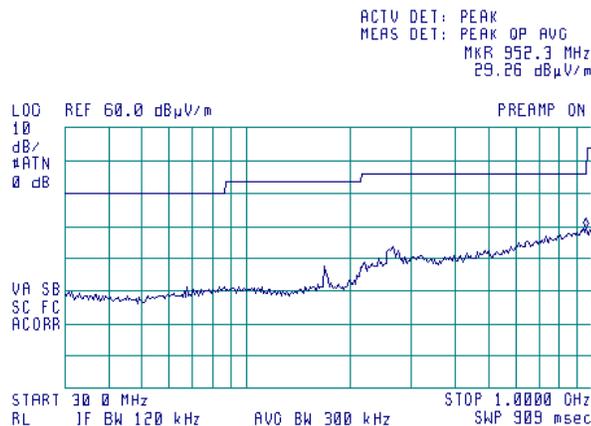
**Plot 7.3.1 Radiated emission measurements from 30 to 1000 MHz at the receive mode**

TEST SITE: Semi anechoic chamber  
 TEST DISTANCE: 3 m  
 ANTENNA POLARIZATION: Vertical  
 EUT ORIENTATION: Z-axis  
 EUT ANTENNA: Long and Short



**Plot 7.3.2 Radiated emission measurements from 30 to 1000 MHz at the receive mode**

TEST SITE: Semi anechoic chamber  
 TEST DISTANCE: 3 m  
 ANTENNA POLARIZATION: Horizontal  
 EUT ORIENTATION: Z-axis  
 EUT ANTENNA: Long and Short



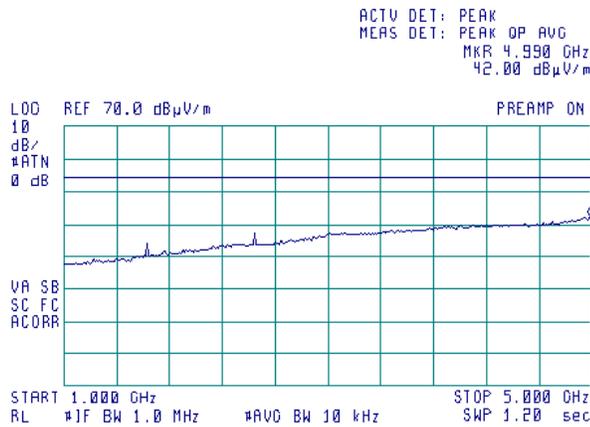
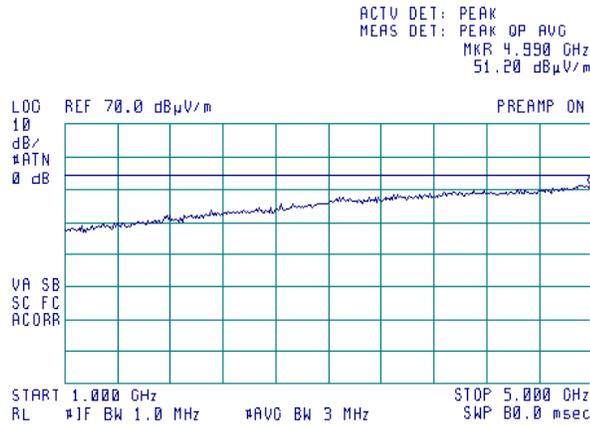


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<b>Test specification:</b> Section 15.109, Radiated emission			
<b>Test procedure:</b> ANSI C63.4, Sections 11.6 and 12.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date &amp; Time:</b> 9/23/2008 2:29:46 PM			
<b>Temperature:</b> 26°C	<b>Air Pressure:</b> 1014 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> Battery
<b>Remarks:</b> BT receive mode			

**Plot 7.3.3 Radiated emission measurements above 1000 MHz, vertical antenna polarization**

TEST SITE: Semi anechoic chamber  
LIMIT: Class B  
TEST DISTANCE: 3 m  
EUT OPERATING MODE: Receive  
EUT ORIENTATION: Z-axis  
EUT ANTENNA: Long and Short



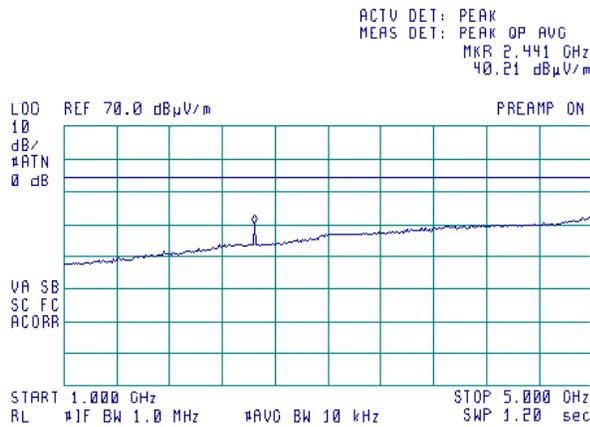
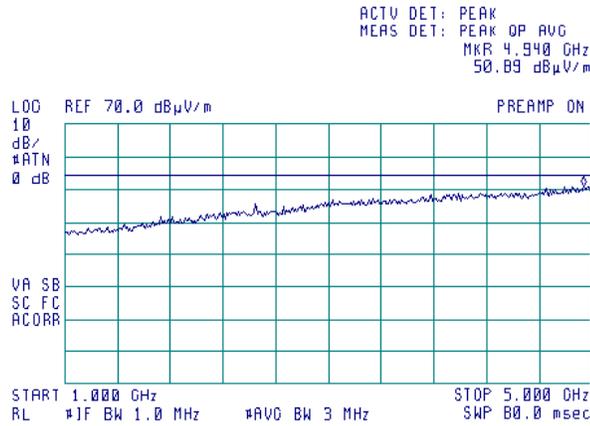


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<b>Test specification:</b> Section 15.109, Radiated emission			
<b>Test procedure:</b> ANSI C63.4, Sections 11.6 and 12.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date &amp; Time:</b> 9/23/2008 2:29:46 PM			
<b>Temperature:</b> 26°C	<b>Air Pressure:</b> 1014 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> Battery
<b>Remarks:</b> BT receive mode			

**Plot 7.3.4 Radiated emission measurements above 1000 MHz, horizontal antenna polarization**

TEST SITE: Semi anechoic chamber  
LIMIT: Class B  
TEST DISTANCE: 3 m  
EUT OPERATING MODE: Receive  
EUT ORIENTATION: Z-axis  
EUT ANTENNA: Long and Short



<b>Test specification:</b> Section 15.109, Radiated emission	
<b>Test procedure:</b> ANSI C63.4, Sections 11.6 and 12.1.4	
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS
<b>Date &amp; Time:</b> 9/23/2008 2:34:25 PM	
<b>Temperature:</b> 26°C	<b>Air Pressure:</b> 1014 hPa
<b>Relative Humidity:</b> 47 %	
<b>Power Supply:</b> Battery	
<b>Remarks:</b> PCS high frequency tuned	

## 7.4 Radiated emission measurements

### 7.4.1 General

This test was performed to measure radiated emissions from the EUT enclosure. Specification test limits are given in Table 7.4.1.

Table 7.4.1 Radiated emission test limits

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

### 7.4.2 Test procedure for measurements in semi-anechoic chamber

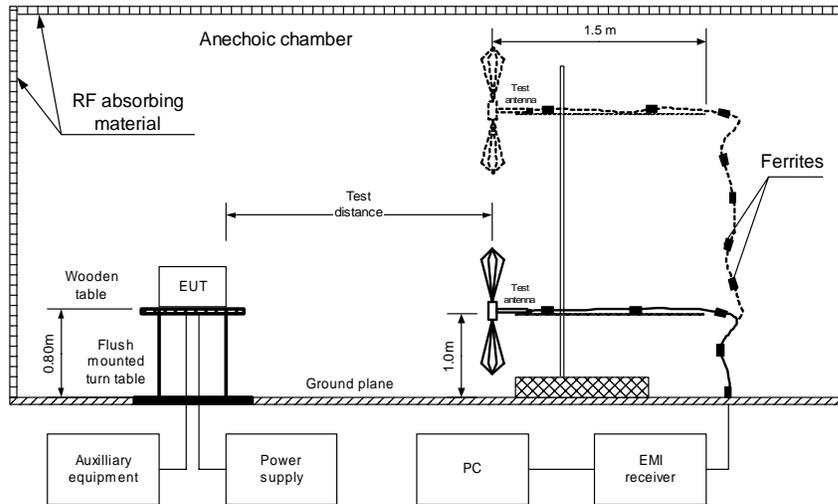
7.4.2.1 The EUT was set up as shown in Figure 7.4.1 and associated photograph/s, energized and the performance check was conducted.

7.4.2.2 The specified frequency range was investigated with biconilog antenna connected to EMI receiver. To find maximum radiation the turntable was rotated 360°, the measuring antenna height was changed from 1 to 4 m, its polarization was switched from vertical to horizontal and the EUT cables position was varied.

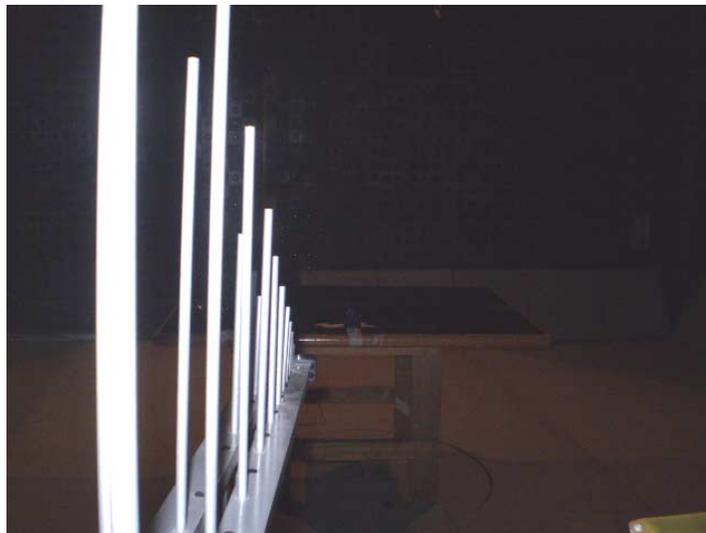
7.4.2.3 The worst test results (the lowest margins) were recorded in Table 7.4.2 and shown in the associated plots.

<b>Test specification:</b>	<b>Section 15.109, Radiated emission</b>		
<b>Test procedure:</b>	ANSI C63.4, Sections 11.6 and 12.1.4		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date &amp; Time:</b>	9/23/2008 2:34:25 PM		
<b>Temperature:</b> 26°C	<b>Air Pressure:</b> 1014 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> Battery
<b>Remarks:</b> PCS high frequency tuned			

Figure 7.4.1 Setup for radiated emission measurements in anechoic chamber, table-top equipment



Photograph 7.4.1 Setup for radiated emission measurements, general view



<b>Test specification:</b>		<b>Section 15.109, Radiated emission</b>	
<b>Test procedure:</b>		ANSI C63.4, Sections 11.6 and 12.1.4	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date &amp; Time:</b>	9/23/2008 2:34:25 PM		
<b>Temperature:</b> 26°C	<b>Air Pressure:</b> 1014 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> Battery
<b>Remarks:</b> PCS high frequency tuned			

Photograph 7.4.2 Setup for radiated emission measurements, general view



Photograph 7.4.3 Setup for final radiated emission measurements, EUT close viewg





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<b>Test specification:</b> Section 15.109, Radiated emission			
<b>Test procedure:</b> ANSI C63.4, Sections 11.6 and 12.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date &amp; Time:</b> 9/23/2008 2:34:25 PM			
<b>Temperature:</b> 26°C	<b>Air Pressure:</b> 1014 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> Battery
<b>Remarks:</b> PCS high frequency tuned			

Table 7.4.2 Radiated emission test results

EUT SET UP: TABLE-TOP  
 LIMIT: Class B  
 EUT OPERATING MODE: Receive  
 TEST SITE: ANECHOIC CHAMBER  
 TEST DISTANCE: 3 m  
 DETECTORS USED: PEAK / QUASI-PEAK  
 FREQUENCY RANGE: 30 MHz – 1000 MHz  
 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*				
No emissions were found								Pass

TEST SITE: SEMI ANECHOIC CHAMBER  
 TEST DISTANCE: 3 m  
 DETECTORS USED: PEAK / AVERAGE  
 FREQUENCY RANGE: 1000 MHz -  
 RESOLUTION BANDWIDTH: 1000 kHz

Frequency, MHz	Peak emission, dB(µV/m)	Average			Antenna polarization	Antenna height, m	Turn-table position**, degrees	Verdict
		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.

Reference numbers of test equipment used

HL 0521	HL 0604	HL 1947	HL 3123				
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Full description is given in Appendix A.

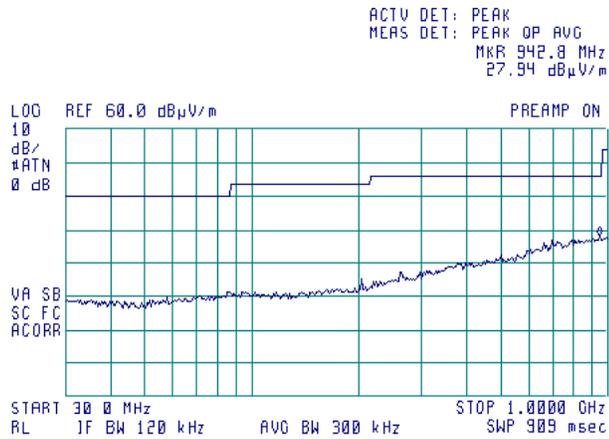


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<b>Test specification:</b> Section 15.109, Radiated emission			
<b>Test procedure:</b> ANSI C63.4, Sections 11.6 and 12.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date &amp; Time:</b> 9/23/2008 2:34:25 PM			
<b>Temperature:</b> 26°C	<b>Air Pressure:</b> 1014 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> Battery
<b>Remarks:</b> PCS high frequency tuned			

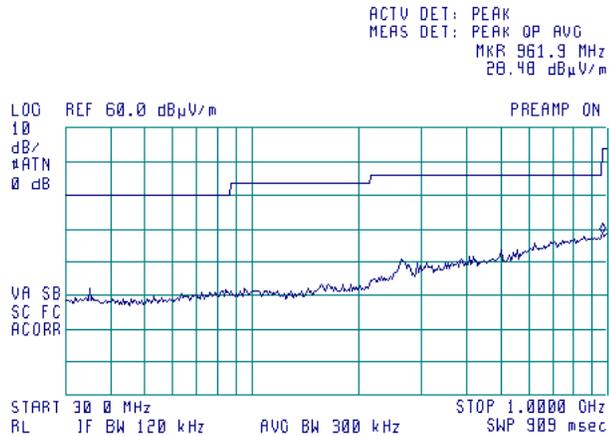
**Plot 7.4.1 Radiated emission measurements in 30 - 1000 MHz range, vertical antenna polarization**

TEST SITE: Semi anechoic chamber  
LIMIT: Class B  
TEST DISTANCE: 3 m  
EUT OPERATING MODE: Receive, tuned to 940.98125 MHz



**Plot 7.4.2 Radiated emission measurements in 30 - 1000 MHz range, horizontal antenna polarization**

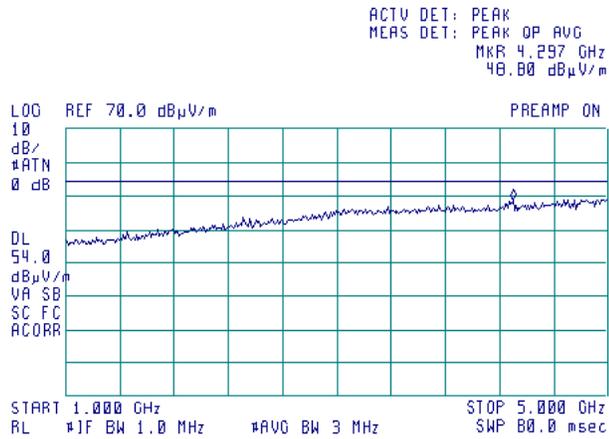
TEST SITE: Semi anechoic chamber  
LIMIT: Class B  
TEST DISTANCE: 3 m  
EUT OPERATING MODE: Receive, tuned to 940.98125 MHz



<b>Test specification:</b> Section 15.109, Radiated emission			
<b>Test procedure:</b> ANSI C63.4, Sections 11.6 and 12.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date &amp; Time:</b> 9/23/2008 2:34:25 PM			
<b>Temperature:</b> 26°C	<b>Air Pressure:</b> 1014 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> Battery
<b>Remarks:</b> PCS high frequency tuned			

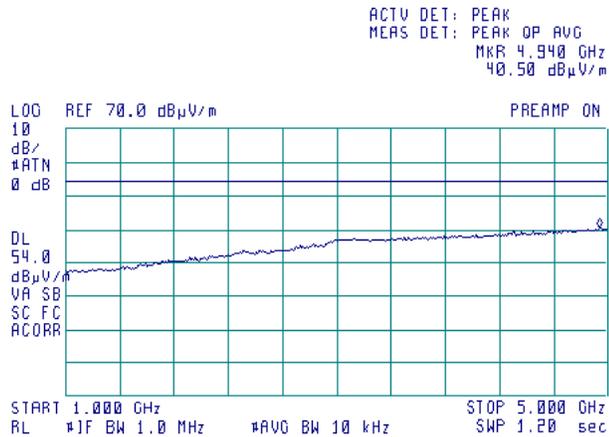
Plot 7.4.3 Radiated emission measurements above 1000 MHz, vertical antenna polarization

TEST SITE: Semi anechoic chamber  
LIMIT: Class B  
TEST DISTANCE: 3 m  
EUT OPERATING MODE: Receive, tuned to 940.98125 MHz



Plot 7.4.4 Radiated emission measurements above 1000 MHz, vertical antenna polarization

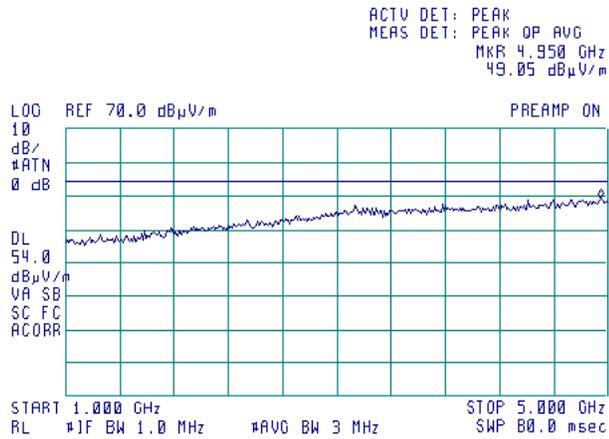
TEST SITE: Semi anechoic chamber  
LIMIT: Class B  
TEST DISTANCE: 3 m  
EUT OPERATING MODE: Receive, tuned to 940.98125 MHz



<b>Test specification:</b> Section 15.109, Radiated emission			
<b>Test procedure:</b> ANSI C63.4, Sections 11.6 and 12.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date &amp; Time:</b> 9/23/2008 2:34:25 PM			
<b>Temperature:</b> 26°C	<b>Air Pressure:</b> 1014 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> Battery
<b>Remarks:</b> PCS high frequency tuned			

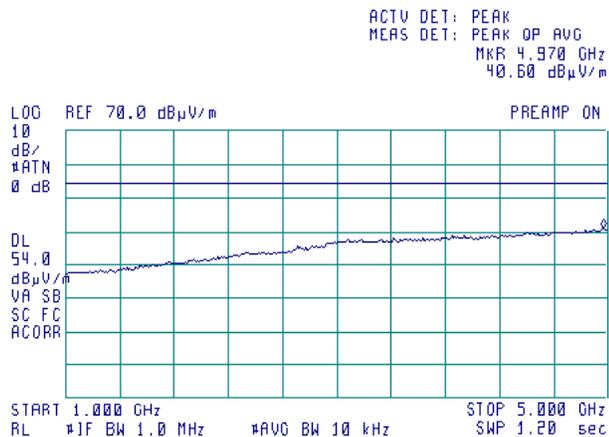
**Plot 7.4.5 Radiated emission measurements above 1000 MHz, horizontal antenna polarization**

TEST SITE: Semi anechoic chamber  
LIMIT: Class B  
TEST DISTANCE: 3 m  
EUT OPERATING MODE: Receive, tuned to 940.98125 MHz



**Plot 7.4.6 Radiated emission measurements above 1000 MHz, horizontal antenna polarization**

TEST SITE: Semi anechoic chamber  
LIMIT: Class B  
TEST DISTANCE: 3 m  
EUT OPERATING MODE: Receive, tuned to 940.98125 MHz



<b>Test specification:</b> Section 15.109, Radiated emission	
<b>Test procedure:</b> ANSI C63.4, Sections 11.6 and 12.1.4	
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS
<b>Date &amp; Time:</b> 9/23/2008 2:41:20 PM	
<b>Temperature:</b> 26°C	<b>Air Pressure:</b> 1014 hPa
<b>Relative Humidity:</b> 47 %	
<b>Power Supply:</b> Battery	
<b>Remarks:</b> iDEN/WiDEN 800/900	

## 7.5 Radiated emission measurements

### 7.5.1 General

This test was performed to measure radiated emissions from the EUT enclosure. Specification test limits are given in Table 7.5.1.

Table 7.5.1 Radiated emission test limits

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

### 7.5.2 Test procedure for measurements in semi-anechoic chamber

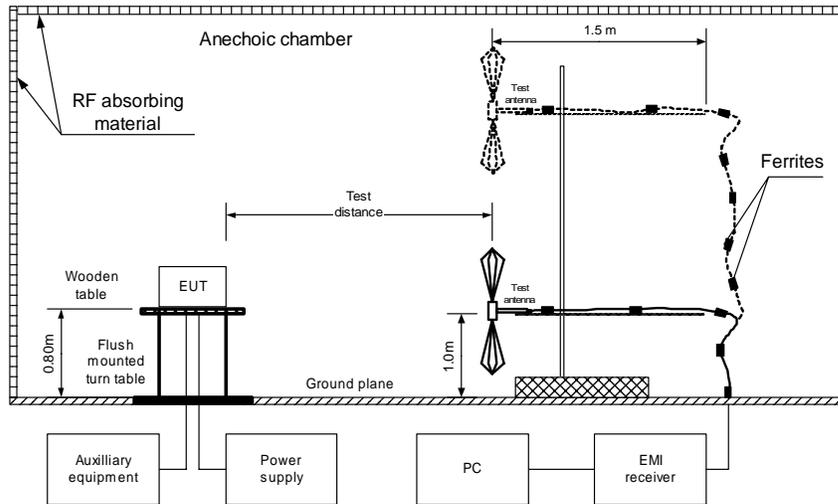
**7.5.2.1** The EUT was set up as shown in Figure 7.5.1 and associated photograph/s, energized and the performance check was conducted.

**7.5.2.2** The specified frequency range was investigated with biconilog antenna connected to EMI receiver. To find maximum radiation the turntable was rotated 360°, the measuring antenna height was changed from 1 to 4 m, its polarization was switched from vertical to horizontal and the EUT cables position was varied.

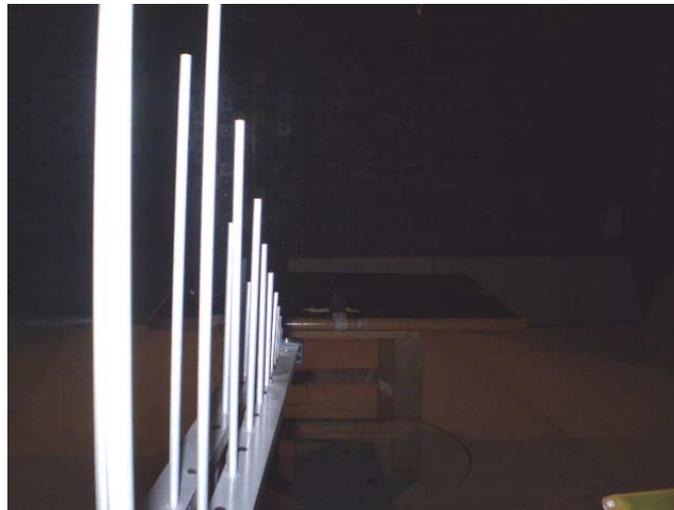
**7.5.2.3** The worst test results (the lowest margins) were recorded in Table 7.5.2 and shown in the associated plots.

<b>Test specification:</b> Section 15.109, Radiated emission			
<b>Test procedure:</b> ANSI C63.4, Sections 11.6 and 12.1.4			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date &amp; Time:</b> 9/23/2008 2:41:20 PM			
<b>Temperature:</b> 26°C	<b>Air Pressure:</b> 1014 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> Battery
<b>Remarks:</b> iDEN/WiDEN 800/900			

Figure 7.5.1 Setup for radiated emission measurements in anechoic chamber, table-top equipment



Photograph 7.5.1 Setup for final radiated emission measurements, general view



<b>Test specification:</b>		<b>Section 15.109, Radiated emission</b>	
<b>Test procedure:</b>		ANSI C63.4, Sections 11.6 and 12.1.4	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date &amp; Time:</b>	9/23/2008 2:41:20 PM		
<b>Temperature:</b> 26°C	<b>Air Pressure:</b> 1014 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> Battery
<b>Remarks:</b> iDEN/WiDEN 800/900			

Photograph 7.5.2 Setup for final radiated emission measurements, general view



Photograph 7.5.3 Setup for final radiated emission measurements, EUT close view





<b>Test specification:</b>	<b>Section 15.109, Radiated emission</b>		
<b>Test procedure:</b>	ANSI C63.4, Sections 11.6 and 12.1.4		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date &amp; Time:</b>	9/23/2008 2:41:20 PM		
<b>Temperature:</b> 26°C	<b>Air Pressure:</b> 1014 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> Battery
<b>Remarks:</b> iDEN/WiDEN 800/900			

Table 7.5.2 Radiated emission test results

EUT SET UP: TABLE-TOP  
LIMIT: Class B  
EUT OPERATING MODE: Receive  
TEST SITE: SEMI ANECHOIC CHAMBER  
TEST DISTANCE: 3 m  
DETECTORS USED: PEAK / QUASI-PEAK  
FREQUENCY RANGE: 30 MHz – 1000 MHz  
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*				
No emissions were found								Pass

TEST SITE: OATS / SEMI ANECHOIC CHAMBER  
TEST DISTANCE: 3 m  
DETECTORS USED: PEAK / AVERAGE  
FREQUENCY RANGE: 1000 MHz -  
RESOLUTION BANDWIDTH: 1000 kHz

Frequency, MHz	Peak emission, dB(µV/m)	Average			Antenna polarization	Antenna height, m	Turn-table position**, degrees	Verdict
		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.

Reference numbers of test equipment used

HL 0521	HL 0604	HL 1947	HL 3123			
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Full description is given in Appendix A.

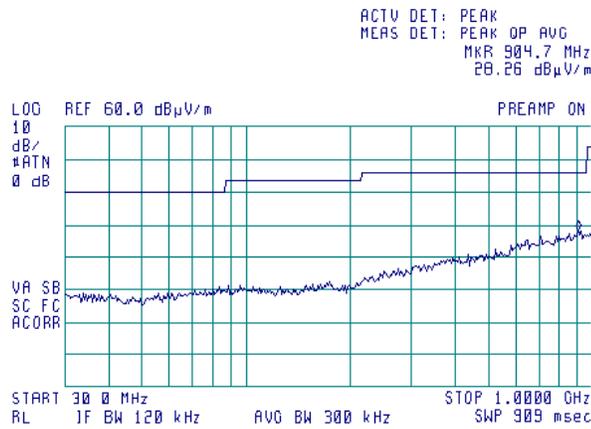


HERMON LABORATORIES

<b>Test specification:</b> Section 15.109, Radiated emission			
<b>Test procedure:</b> ANSI C63.4, Sections 11.6 and 12.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date &amp; Time:</b> 9/23/2008 2:41:20 PM			
<b>Temperature:</b> 26°C	<b>Air Pressure:</b> 1014 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> Battery
<b>Remarks:</b> iDEN/WiDEN 800/900			

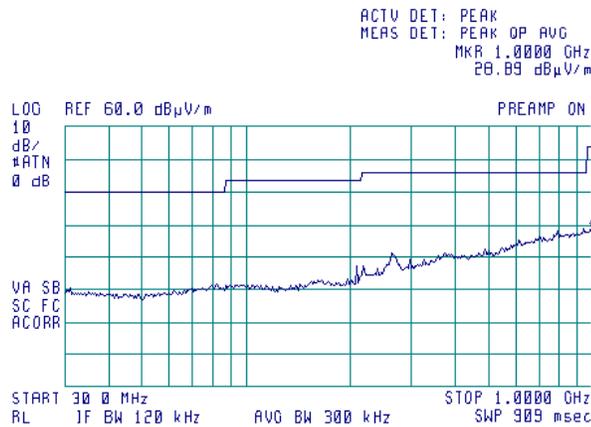
**Plot 7.5.1 Radiated emission measurements in 30 - 1000 MHz range, vertical antenna polarization**

TEST SITE: Semi anechoic chamber  
LIMIT: Class B  
TEST DISTANCE: 3 m  
EUT OPERATING MODE: Receive, tuned to 851.0625 MHz  
IDEN/WiDEN 800



**Plot 7.5.2 Radiated emission measurements in 30 - 1000 MHz range, horizontal antenna polarization**

TEST SITE: Semi anechoic chamber  
LIMIT: Class B  
TEST DISTANCE: 3 m  
EUT OPERATING MODE: Receive, tuned to 851.0625 MHz  
IDEN/WiDEN 800



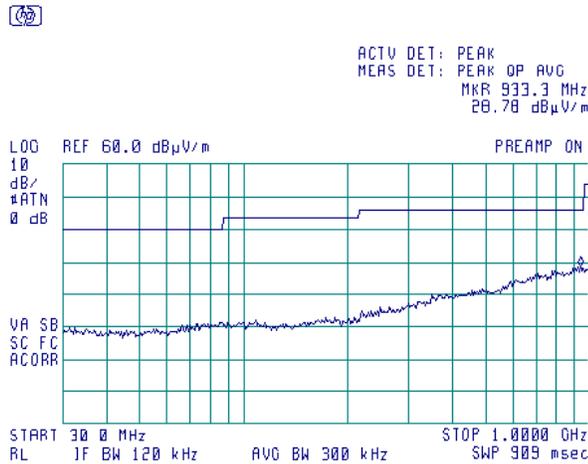


HERMON LABORATORIES

<b>Test specification:</b> Section 15.109, Radiated emission			
<b>Test procedure:</b> ANSI C63.4, Sections 11.6 and 12.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date &amp; Time:</b> 9/23/2008 2:41:20 PM			
<b>Temperature:</b> 26°C	<b>Air Pressure:</b> 1014 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> Battery
<b>Remarks:</b> iDEN/WiDEN 800/900			

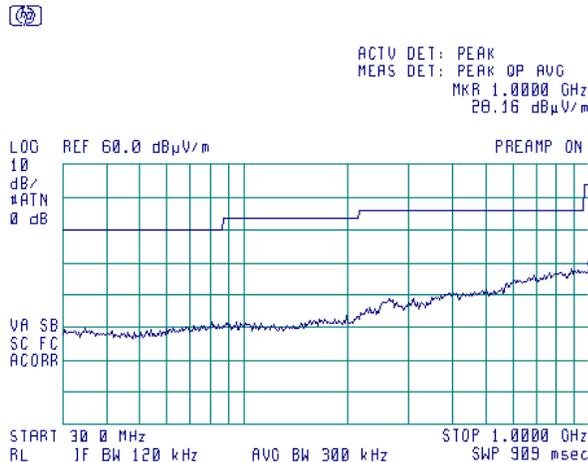
**Plot 7.5.3 Radiated emission measurements in 30 - 1000 MHz range, vertical antenna polarization**

TEST SITE: Semi anechoic chamber  
LIMIT: Class B  
TEST DISTANCE: 3 m  
EUT OPERATING MODE: Receive, tuned to 935.01875 MHz  
iDEN/WiDEN 900



**Plot 7.5.4 Radiated emission measurements in 30 - 1000 MHz range, horizontal antenna polarization**

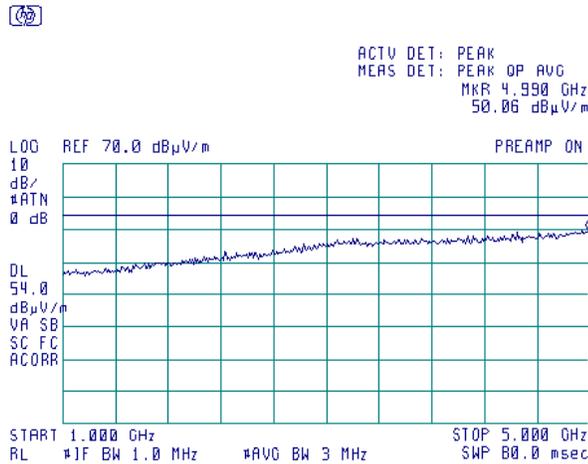
TEST SITE: Semi anechoic chamber  
LIMIT: Class B  
TEST DISTANCE: 3 m  
EUT OPERATING MODE: Receive, tuned to 935.01875 MHz  
iDEN/WiDEN 900



<b>Test specification:</b> Section 15.109, Radiated emission			
<b>Test procedure:</b> ANSI C63.4, Sections 11.6 and 12.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date &amp; Time:</b> 9/23/2008 2:41:20 PM			
<b>Temperature:</b> 26°C	<b>Air Pressure:</b> 1014 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> Battery
<b>Remarks:</b> iDEN/WiDEN 800/900			

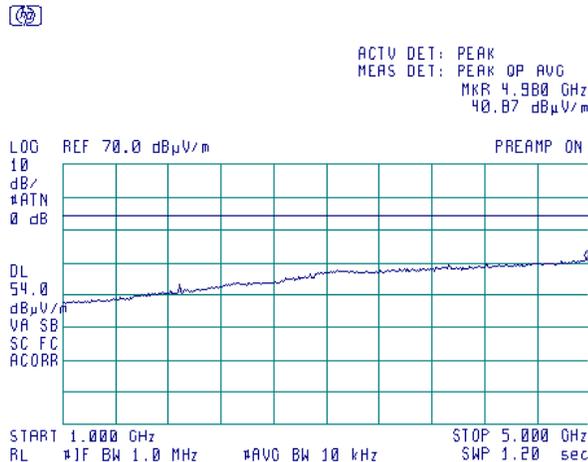
**Plot 7.5.5 Radiated emission measurements above 1000 MHz, vertical antenna polarization**

TEST SITE: Semi anechoic chamber  
LIMIT: Class B  
TEST DISTANCE: 3 m  
EUT OPERATING MODE: Receive, tuned to 851.0625 MHz  
IDEN/WiDEN 800



**Plot 7.5.6 Radiated emission measurements above 1000 MHz, vertical antenna polarization**

TEST SITE: Semi anechoic chamber  
LIMIT: Class B  
TEST DISTANCE: 3 m  
EUT OPERATING MODE: Receive, tuned to 851.0625 MHz  
IDEN/WiDEN 800



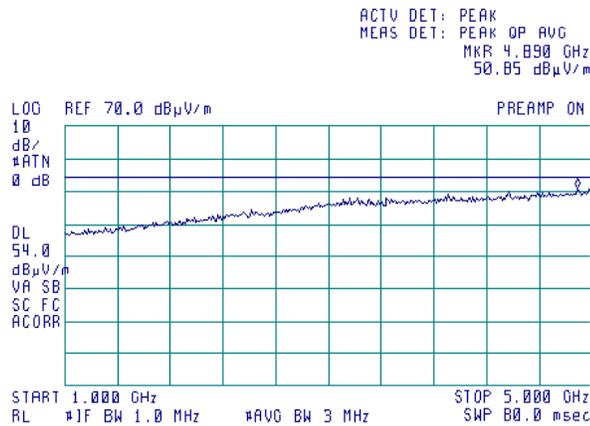


HERMON LABORATORIES

<b>Test specification:</b> Section 15.109, Radiated emission			
<b>Test procedure:</b> ANSI C63.4, Sections 11.6 and 12.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date &amp; Time:</b> 9/23/2008 2:41:20 PM			
<b>Temperature:</b> 26°C	<b>Air Pressure:</b> 1014 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> Battery
<b>Remarks:</b> iDEN/WiDEN 800/900			

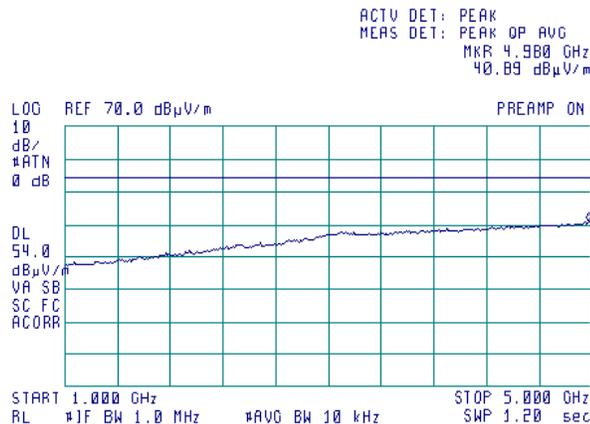
Plot 7.5.7 Radiated emission measurements above 1000 MHz, horizontal antenna polarization

TEST SITE: Semi anechoic chamber  
LIMIT: Class B  
TEST DISTANCE: 3 m  
EUT OPERATING MODE: Receive, tuned to 851.0625 MHz  
IDEN/WiDEN 800



Plot 7.5.8 Radiated emission measurements above 1000 MHz, horizontal antenna polarization

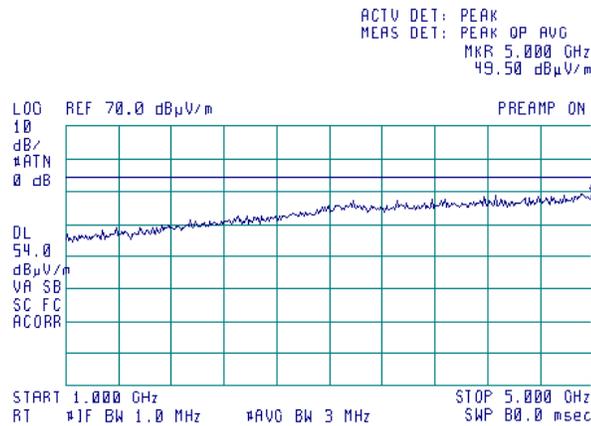
TEST SITE: Semi anechoic chamber  
LIMIT: Class B  
TEST DISTANCE: 3 m  
EUT OPERATING MODE: Receive, tuned to 851.0625 MHz  
IDEN/WiDEN 800



<b>Test specification:</b> Section 15.109, Radiated emission			
<b>Test procedure:</b> ANSI C63.4, Sections 11.6 and 12.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date &amp; Time:</b> 9/23/2008 2:41:20 PM			
<b>Temperature:</b> 26°C	<b>Air Pressure:</b> 1014 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> Battery
<b>Remarks:</b> iDEN/WiDEN 800/900			

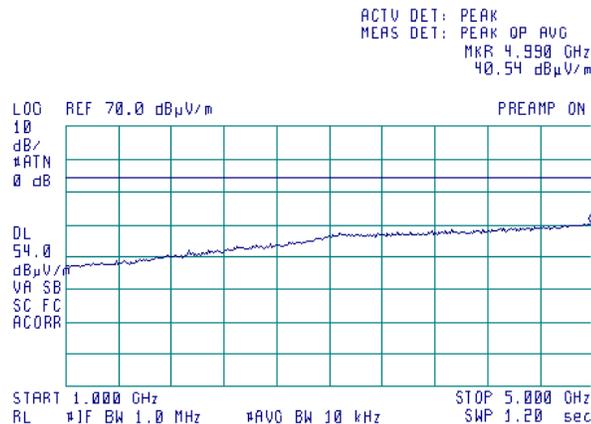
**Plot 7.5.9 Radiated emission measurements above 1000 MHz, vertical antenna polarization**

TEST SITE: Semi anechoic chamber  
LIMIT: Class B  
TEST DISTANCE: 3 m  
EUT OPERATING MODE: Receive, tuned to 935.01875 MHz  
IDEN/WiDEN 900



**Plot 7.5.10 Radiated emission measurements above 1000 MHz, vertical antenna polarization**

TEST SITE: Semi anechoic chamber  
LIMIT: Class B  
TEST DISTANCE: 3 m  
EUT OPERATING MODE: Receive, tuned to 935.01875 MHz  
IDEN/WiDEN 900



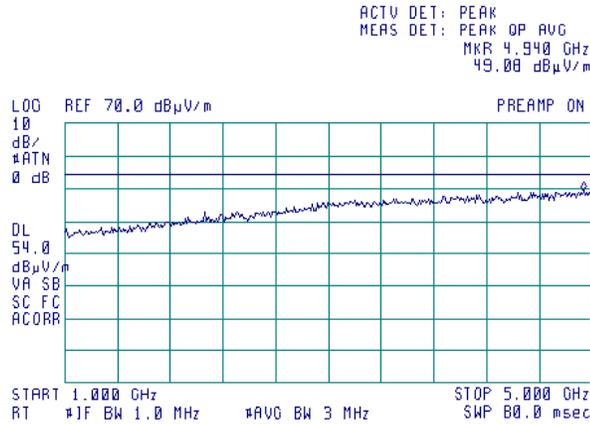


HERMON LABORATORIES

<b>Test specification:</b> Section 15.109, Radiated emission			
<b>Test procedure:</b> ANSI C63.4, Sections 11.6 and 12.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date &amp; Time:</b> 9/23/2008 2:41:20 PM			
<b>Temperature:</b> 26°C	<b>Air Pressure:</b> 1014 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> Battery
<b>Remarks:</b> iDEN/WiDEN 800/900			

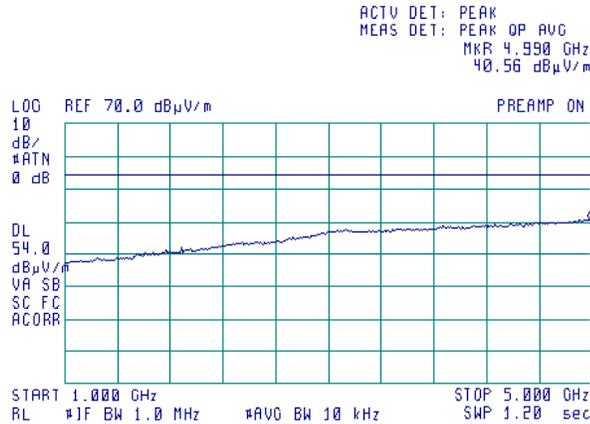
Plot 7.5.11 Radiated emission measurements above 1000 MHz, horizontal antenna polarization

TEST SITE: Semi anechoic chamber  
LIMIT: Class B  
TEST DISTANCE: 3 m  
EUT OPERATING MODE: Receive, tuned to 935.01875 MHz  
iDEN/WiDEN 900



Plot 7.5.12 Radiated emission measurements above 1000 MHz, horizontal antenna polarization

TEST SITE: Semi anechoic chamber  
LIMIT: Class B  
TEST DISTANCE: 3 m  
EUT OPERATING MODE: Receive, tuned to 935.01875 MHz  
iDEN/WiDEN 900



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

HL No	Description	Manufacturer	Model	Ser. No.	Last Cal.	Due Cal.
0415	Cable, Coax, RF, RG-214	Hermon Laboratories	CC-3	056	02-Dec-07	02-Dec-08
0447	LISN, 16/2, 300V RMS, 50 Ohm/50 uH + 5 Ohm, STD CISPR 16-1	Hermon Laboratories	LISN 16 - 1	066	03-Nov-07	03-Nov-08
0477	Filter low pass, fc - 0.5 MHz, -100dB, 50 Ohm	Solar Electronics	6623-05	NA	09-Oct-07	09-Oct-09
0521	EMI Receiver (Spectrum Analyzer) with RF filter section 9 kHz-6.5 GHz	Hewlett Packard Co	8546A	3617A 00319, 3448A002 53	29-Aug-08	29-Aug-09
0580	DC block adaptor 10 kHz - 2.2 GHz	Anritsu	MA8601 A	580	21-Nov-07	21-Nov-08
0604	Antenna BiconiLog Log-Periodic/T Bow-TIE, 26 - 2000 MHz	EMCO	3141	9611-1011	10-Jan-08	10-Jan-09
1430	EMI Receiver, 9 kHz - 2.9 GHz, System: HL1431, HL1432	Agilent Technologies	8542E	3807A002 62,3705A0 0217	31-Aug-08	31-Aug-09
1500	Cable RF, 15 m, N/N-type	Suhner Switzerland	RG 214/U	1500	08-Sep-08	08-Sep-09
1947	Cable 18GHz, 6.5 m, blue	Rhophase Microwave Limited	NPS-1803A-6500-NPS	T4974	05-Oct-07	05-Oct-08
2432	Antenna, Double-Ridged Waveguide Horn 1-18 GHz	EMC Test Systems	3115	00027177	03-Mar-08	03-Mar-09
3123	Microwave Cable Assembly, 18 GHz, 6.4 m, SMA - SMA	Huber-Suhner	198-9155-00	3123	13-Dec-07	13-Dec-08
3175	Attenuator, N-type, 10 dB, DC to 18 GHz, 5 W	Mini-Circuits	BW-N10W5+	0708	07-May-08	07-May-09

## 9 APPENDIX B Measurement uncertainties

### Expanded uncertainty at 95% confidence in Hermon Labs EMC measurements

Test description	Expanded uncertainty
Conducted carrier power at RF antenna connector	Below 12.4 GHz: $\pm 1.7$ dB 12.4 GHz to 40 GHz: $\pm 2.3$ dB
Conducted emissions at RF antenna connector	9 kHz to 2.9 GHz: $\pm 2.6$ dB 2.9 GHz to 6.46 GHz: $\pm 3.5$ dB 6.46 GHz to 13.2 GHz: $\pm 4.3$ dB 13.2 GHz to 22.0 GHz: $\pm 5.0$ dB 22.0 GHz to 26.8 GHz: $\pm 5.5$ dB 26.8 GHz to 40.0 GHz: $\pm 4.8$ dB
Duty cycle, timing (Tx ON / OFF) and average factor measurements	$\pm 1.0$ %
Conducted emissions with LISN	9 kHz to 150 kHz: $\pm 3.9$ dB 150 kHz to 30 MHz: $\pm 3.8$ dB
Radiated emissions at 3 m measuring distance Horizontal polarization  Vertical polarization	Biconilog antenna: $\pm 5.3$ dB Biconical antenna: $\pm 5.0$ dB Log periodic antenna: $\pm 5.3$ dB Double ridged horn antenna: $\pm 5.3$ dB Biconilog antenna: $\pm 6.0$ dB Biconical antenna: $\pm 5.7$ dB Log periodic antenna: $\pm 6.0$ dB Double ridged horn antenna: $\pm 6.0$ 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.

## 10 APPENDIX C 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) and by Industry Canada for electromagnetic emissions (file numbers IC 2186-1 for OATS and IC 2186-2 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), 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).

Address: P.O. Box 23, Binyamina 30500, Israel.  
Telephone: +972 4628 8001  
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e-mail: mail@hermonlabs.com  
website: www.hermonlabs.com

Person for contact: Mr. Alex Usoskin, CEO.

## 11 APPENDIX D Specification references

FCC 47CFR part 15: 2007	Radio Frequency Devices.
Public notice DA 00- 705: 2000	Filing and measurement guidelines for frequency hopping spread spectrum systems.
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.
FCC 47CFR part 90: 2007	Private Land Mobile Radio Services
FCC 47CFR part 24: 2007	Personal Communications services
FCC 47CFR part 2: 2007	Frequency allocations and radio treaty matters; general rules and regulations
ANSI/TIA/EIA-603-A:2001	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards

## 12 APPENDIX E Test equipment correction factors

Correction factor  
Line impedance stabilization network  
Model LISN 16 - 1  
Hermon Laboratories, HL 0447

Frequency, kHz	Correction factor, dB
10	4.9
15	2.86
20	1.83
25	1.25
30	0.91
35	0.69
40	0.53
50	0.35
60	0.25
70	0.18
80	0.14
90	0.11
100	0.09
125	0.06
150	0.04

The correction factor in dB is to be added to meter readings of an interference analyzer or a spectrum analyzer.

**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(μV) to convert it into field intensity in dB(μV/m).

**Antenna factor**  
**Double-ridged guide horn antenna**  
**Model 3115, serial number: 00027177, HL 2432**

Frequency, MHz	Antenna factor. dB(1/m)
1000.0	24.7
1500.0	25.7
2000.0	27.8
2500.0	28.9
3000.0	30.7
3500.0	31.8
4000.0	33.0
4500.0	32.8
5000.0	34.2
5500.0	34.9
6000.0	35.2
6500.0	35.4
7000.0	36.3
7500.0	37.3
8000.0	37.5
8500.0	38.0
9000.0	38.3
9500.0	38.3
10000.0	38.7
10500.0	38.7
11000.0	38.9
11500.0	39.5
12000.0	39.5
12500.0	39.4
13000.0	40.5
13500.0	40.8
14000.0	41.5
14500.0	41.3
15000.0	40.2
15500.0	38.7
16000.0	38.5
16500.0	39.8
17000.0	41.9
17500.0	45.8
18000.0	49.1

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

**Cable loss**  
**Cable Coaxial, RG-58/RG-214, s/n 056, HL 0415**  
**+ Cable Coaxial, RG-214, 11.5m, s/n 148, HL 0812**

No.	Frequency, MHz	Cable loss, dB	Measured uncertainty, dB
1	20	0.73	±0.12
2	30	0.91	
3	50	1.2	
4	80	1.56	
5	100	1.76	
6	200	2.59	
7	300	3.26	
8	400	3.93	
9	500	4.42	
10	600	4.92	
11	700	5.36	
12	800	5.88	
13	900	6.41	
14	1000	6.71	
15	1500	8.63	
16	2000	10.39	

**Cable loss**  
**Cable 18 GHz, 6.5 m, blue, model: NPS-1803A-6500-NPS, S/N T4974, HL 1947**

Frequency, GHz	Cable loss, dB
0.03	0.30
0.05	0.38
0.10	0.53
0.20	0.74
0.30	0.91
0.40	1.05
0.50	1.18
0.60	1.29
0.70	1.40
0.80	1.50
0.90	1.59
1.00	1.68
1.10	1.77
1.20	1.86
1.30	1.94
1.40	2.01
1.50	2.08
1.60	2.16
1.70	2.22
1.80	2.29
1.90	2.36
2.00	2.42
2.10	2.48
2.20	2.54
2.30	2.60
2.40	2.66
2.50	2.71
2.60	2.77
2.70	2.83
2.80	2.89
2.90	2.95
3.10	3.06
3.30	3.17
3.50	3.28
3.70	3.39
3.90	3.51
4.10	3.62
4.30	3.76
4.50	3.87
4.70	4.01
4.90	4.10
5.10	4.21
5.30	4.31
5.50	4.43
5.70	4.56
5.90	4.71

Frequency, GHz	Cable loss, dB
6.10	4.87
6.30	4.95
6.50	4.94
6.70	4.88
6.90	4.87
7.10	4.83
7.30	4.85
7.50	4.86
7.70	4.91
7.90	4.96
8.10	5.03
8.30	5.08
8.50	5.13
8.70	5.21
8.90	5.22
9.10	5.34
9.30	5.35
9.50	5.52
9.70	5.51
9.90	5.66
10.10	5.70
10.30	5.78
10.50	5.79
10.70	5.82
10.90	5.86
11.10	5.94
11.30	6.06
11.50	6.21
11.70	6.44
11.90	6.61
12.10	6.76
12.40	6.68
13.00	6.66
13.50	6.81
14.00	6.90
14.50	6.90
15.00	6.97
15.50	7.17
16.00	7.28
16.50	7.27
17.00	7.38
17.50	7.68
18.00	7.92

**Cable loss**  
**Microwave Cable Assembly, 18 GHz, 6.4 m, SMA – SMA, Huber-Suhner, model 198-9155-00**  
**HL 3123**

Frequency, MHz	Cable loss, dB								
10.0	0.11	3600	1.97	7400	3.12	11200	3.90	15100	4.74
30	0.17	3700	1.97	7500	3.13	11300	3.93	15200	4.70
50	0.25	3800	2.03	7600	3.16	11400	3.88	15300	4.73
100	0.32	3900	2.04	7700	3.18	11500	3.87	15400	4.78
200	0.46	4000	2.10	7800	3.20	11600	3.90	15500	4.75
300	0.58	4100	1.97	7900	3.23	11700	3.86	15600	4.76
400	0.65	4200	1.97	8000	3.25	11800	3.88	15700	4.75
500	0.74	4300	2.03	8100	3.26	11900	3.86	15800	4.78
600	0.82	4400	2.04	8200	3.28	12000	3.89	15900	4.79
700	0.89	4500	2.10	8300	3.31	12100	3.94	16000	4.73
800	0.95	4600	1.97	8400	3.31	12200	3.92	16100	4.78
900	1.01	4700	1.97	8500	3.32	12300	3.96	16200	4.84
1000	1.07	4800	2.03	8600	3.34	12400	4.01	16300	4.90
1100	1.11	4900	2.04	8700	3.35	12500	4.07	16400	4.87
1200	1.17	5000	2.10	8800	3.37	12600	4.08	16500	4.90
1300	1.22	5100	2.53	8900	3.39	12700	4.17	16600	4.98
1400	1.27	5200	2.55	9000	3.42	12800	4.26	16700	5.05
1500	1.29	5300	2.60	9100	3.43	12900	4.16	16800	5.04
1600	1.35	5400	2.61	9200	3.51	13000	4.21	16900	5.02
1700	1.40	5500	2.64	9300	3.52	13100	4.24	17000	5.09
1800	1.44	5600	2.70	9400	3.54	13200	4.27	17100	5.07
1900	1.51	5700	2.67	9500	3.63	13300	4.31	17200	5.10
2000	1.49	5800	2.71	9600	3.61	13400	4.33	17300	5.13
2100	1.55	5900	2.74	9700	3.71	13500	4.25	17400	5.23
2200	1.58	6000	2.80	9800	3.66	13600	4.27	17500	5.21
2300	1.62	6100	2.79	9900	3.77	13700	4.33	17600	5.22
2400	1.72	6200	2.81	10000	3.75	13800	4.33	17700	5.36
2500	1.76	6300	2.83	10100	3.77	13900	4.31	17800	5.35
2600	1.78	6400	2.86	10200	3.80	14000	4.30	17900	5.45
2700	1.80	6500	2.88	10300	3.79	14100	4.30	18000	5.43
2800	1.86	6600	2.90	10400	3.87	14200	4.31		
2900	1.90	6700	2.92	10500	3.83	14300	4.37		
3000	1.90	6800	2.98	10600	3.88	14400	4.35		
3100	1.97	6900	2.98	10700	3.86	14600	4.53		
3200	1.97	7000	3.00	10800	3.87	14700	4.50		
3300	2.03	7100	3.02	10900	3.90	14800	4.62		
3400	2.04	7200	3.04	11000	3.84	14900	4.65		
3500	2.10	7300	3.06	11100	3.88	15000	4.79		

### 13 APPENDIX F Abbreviations and acronyms

A	ampere
AC	alternating current
AM	amplitude modulation
AVRG	average (detector)
BB	broad band
cm	centimeter
dB	decibel
dBm	decibel referred to one milliwatt
dB( $\mu$ V)	decibel referred to one microvolt
dB( $\mu$ V/m)	decibel referred to one microvolt per meter
dB( $\mu$ A)	decibel referred to one microampere
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
k	kilo
kHz	kilohertz
LO	local oscillator
m	meter
MHz	megahertz
mm	millimeter
ms	millisecond
$\mu$ s	microsecond
NA	not applicable
NB	narrow band
OATS	open area test site
$\Omega$	Ohm
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

END OF DOCUMENT