
REPORT ON

Limited FCC CFR 47: Part 24 Testing in support of an
Application for Grant of Equipment Authorisation
Of a Symbol MC9062 Mobile Computer

COMMERCIAL-IN-CONFIDENCE

FCC ID: H9PMC9062B

Report No OR611528/03 Issue 1

March 2004

REPORT ON

Limited FCC CFR 47: Parts 15 and 24 Testing in support of an
Application for Grant of Equipment Authorisation
Of a Symbol MC9062 Mobile Computer

FCC ID: H9PMC9062B

Report No OR611528/03 Issue 1

March 2004

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DATED

05-03-04

DISTRIBUTION

Symbol Technologies

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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 and 24. The sample tested was found to comply with the requirements defined in the applied rules.

Test Engineers;


S Hartley


A Guy


G Lawler



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SECTION 1

REPORT SUMMARY

Limited FCC CFR 47: Parts 15 and 24 Testing in support of an
Application for Grant of Equipment Authorisation
Of a Symbol MC9062 Mobile Computer



1.1 STATUS

EQUIPMENT UNDER TEST	MC9062 Mobile Computer
OBJECTIVE	To undertake measurements to determine the Equipment Under Test's (EUT's) compliance with the specification.
NAME AND ADDRESS OF CLIENT	Symbol Technologies Inc One Symbol Plaza Holtsville 11742-1300, New York United States of America
TYPE NUMBER	MC9062
PART NUMBER	MC9062-KKBHBEEA7WW
SERIAL NUMBER	ALP76133 & ALP75360
HARDWARE VERSION	Rev 10 (To be released as Rev A)
DECLARED VARIANTS	None
TEST SPECIFICATION / ISSUE / DATE	FCC CFR 47: Part 15, Subpart B, August 2002, and Part 24, Subpart D, January 2001
NUMBER OF ITEMS TESTED	Two
SECURITY CLASSIFICATION OF EUT	Commercial In Confidence
INCOMING RELEASE DATE	Declaration of Build Status 26 th January 2004
DISPOSAL REFERENCE NUMBER DATE	Held pending disposal Not Applicable Not Applicable
ORDER NUMBER DATE	EMEA 13602 3 rd November 2003
START OF TEST	10 th February 2004
FINISH OF TEST	17 th February 2004
RELATED DOCUMENTS	ANSI C63.4 2001. Methods of Measurement of Radio- Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.



1.2 INTRODUCTION

The information contained within this report is intended to show limited verification of compliance of the Symbol Technologies Inc MC9062 Mobile Computer to the requirements of FCC Specification Parts 15 and 24.

Testing was carried out in support of an application for Grant of Equipment Authorisation in the name of Symbol Technologies Inc.



1.2.1 DECLARATION OF BUILD STATUS

MAIN EUT			
MANUFACTURING DESCRIPTION	Mobile Computer		
MANUFACTURER	Symbol Technologies Inc.		
COUNTRY OF ORIGIN	USA		
TYPE	MC9062		
PART NUMBER	MC9062-KKBHBEEA7WW		
SERIAL NUMBER	ALP75354, ALP75379, ALP75372, ALP75571, ALP75071, ALP75073, ALP75521, ALP75375, ALP75360, ALP76133		
HARDWARE VERSION	Rev 10 (Manufactured as Rev A)		
FCC ID	H9PMC9062B		
INDUSTRY CANADA ID	1549D-MC9062B		
RADIO MODULES INTEGRATED	RLAN, (21-64436) and Bluetooth, (21-64381), GSM/GPRS 900/1800/1900, (MC45)		
TECHNICAL DESCRIPTION	The unit supplied for testing is a Symbol MC9062 Mobile Computer, which offers Tri-Band GSM/GPRS 900/1800/1900, 2.4GHz 802.11b Wireless LAN and Bluetooth connectivity with the following options: Pico Imager; Colour (touch) display; 64/64 memory option; 53Keyboard; PPC2003; Audio; Bluetooth		
BATTERY/POWER SUPPLY			
MANUFACTURING DESCRIPTION	Lithium Battery		
MANUFACTURER	Symbol Technologies Inc.		
COUNTRY OF ORIGIN	USA		
TYPE	N/A		
PART NUMBER	21-65587-01		
VOLTAGE	7.2V		
UK AGENT	Symbol Technologies Ltd		
RADIO MODULES			
MANUFACTURING DESCRIPTION	Main Terminal Module with Embedded RLAN Radio	Bluetooth Module	GPRS/GSM Tri-Band Radio Module
MANUFACTURER	Symbol Technologies Inc	Symbol Technologies Inc	Siemens AG
COUNTRY OF ORIGIN	USA	USA	Germany
TYPE	21-64436	21-64381	MC45
POWER	7 - 16V	3.3V	3.2 – 4.5V
TRANSMITTER OPERATING RANGE	2400 – 2483.5MHz	2400 – 2483.5MHz	880-915 / 1710-1785 / 1850-1910
TRANSMITTER POWER	100mW (+20dBm)	100mW (+20dBm)	2W (GSM900) / 1W (GSM1800/1900)
RECEIVER OPERATING RANGE	2400 – 2483.5MHz	2400 – 2483.5MHz	925-960 / 1805-1880 / 1930-1990
INTERMEDIATE FREQUENCIES	374MHz	Direct Conversion	Receiver: 0; Transmitter: 80MHz
EMISSION DESIGNATOR	11M0F1D	1M00F1D	GXW
DHSS/FHSS OR OTHER	DSSS	FHSS	GSM
FCC ID	H9P2164436	H9P2164381	QIPMC45
INDUSTRY CANADA ID	1549D-2164436	1549D-2164381	267W-MC45
ANCILLARIES			
MANUFACTURING DESCRIPTION	Headset		
MANUFACTURER	VXI Corporation		
TYPE	VXI 61-SYB		
PART NUMBER	50-11300-050		
SERIAL NUMBER	Not Serialised		
HARDWARE VERSION	Rev A		
COUNTRY OF ORIGIN	USA		
UK AGENT	Symbol Technologies Inc		

The unit used for the internal photographs in this report was not the EUT, but was supplied as an identical unit for photographs only. It is declared as being the same build status as the EUT.

Signature

Date

D of B S Serial No

Marco Bell
26th January 2004

OR611528

BABT Product Service Limited formally certifies that the manufacturer's declaration as reproduced in this report, is a true and accurate record of the original received from the applicant.



1.3 BRIEF SUMMARY OF RESULTS

A brief summary of the tests carried out is shown below.

Test	Spec Clause	Test Description	Result	Levels/Comments
2.1	15.109	Radiated Emissions (Unintentional Radiator)	Pass	Test Sample Serial No ALP76133
2.2	24.232	Maximum Peak Output Power	Pass	Test Sample Serial No ALP75360
2.3	24.238	Radiated Emissions	Pass	Test Sample Serial No ALP76133



1.4 OPINIONS AND INTERPRETATIONS

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



1.5 PRODUCT INFORMATION

1.5.1 Technical Description

The unit supplied for testing is a Symbol MC9062 Mobile Computer, which offers Tri-Band GSM/GPRS 900/1800/1900, 2.4GHz 802.11b Wireless LAN and Bluetooth connectivity with the following options:

Pico Imager; Colour (touch) display; 64/64 memory option; 53Keyboard; PPC2003; Audio; Bluetooth

The terminal utilizes the approved Siemens AG MC45 GSM/GPRS 900/1800/1900 Module, Symbol 21-64436 Main Terminal Module with embedded RLAN Radio and the Symbol 21-64381 Bluetooth Module. FCC ID numbers are detailed in Section 1.2.1 "Declaration of Build Status".

1.5.2 Modes of Operation

Applicable testing was carried out with the EUT transmitting at maximum power as detailed in Section 1.5.3 "Test Configuration".

The Client has declared that the Symbol 21-64436 and the Symbol 21-64381 Modules are Co-Located, but that they are not capable of Simultaneously Transmitting. The Symbol 21-64436 and the Symbol 21-64381 Modules are both capable of Simultaneously Transmitting with the Tri-Band GSM/GPRS 900/1800/1900 Module individually. Testing for this mode of operation is covered in BABT Test Report Reference Number OR611528/04 Issue 1, dated February 2004.

1.5.3 Test Configuration

1.5.3.1 Test Configuration – Mode 1 (GSM1900)

Bottom Channel 512: 1850.2MHz
Middle Channel 661: 1880.0MHz
Top Channel 810: 1909.8MHz



1.6 TEST CONDITIONS

The EUT was set-up simulating a typical user installation on the Alternative Open Field Test Site identified in Appendix A and tested in accordance with the applicable specification.

For all tests, the Symbol MC9062 Mobile Computer was powered by its own internal battery and was fitted with a headset.

Testing in this report pertains only to the item tested and detailed in Section 1.2.

1.7 DEVIATIONS FROM THE STANDARD

No deviations from the standard were made.

1.8 MODIFICATION RECORD

The table below details modifications made to the EUT during the test programme and applies to all configurations. All testing was performed with the EUT in Modification State 0 unless otherwise stated in Section 1.3 and on the appropriate test pages.

Modification State	Description of Modification still fitted to EUT	Modification Fitted By	Date Modification Fitted
0	As supplied by the customer	N/A	N/A



SECTION 2

TEST DETAILS

Limited FCC CFR 47: Parts 15 and 24 Testing in support of an
Application for Grant of Equipment Authorisation
Of a Symbol MC9062 Mobile Computer



2.1 SPURIOUS RADIATED EMISSIONS

2.1.1 Specification Reference

FCC CFR 47: Part 15 Subpart B, Section 15.109

2.1.2 Equipment Under Test

MC9062 Mobile Computer

2.1.3 Date of Test

17th February 2004

2.1.4 Test Equipment Used

The major items of test equipment used for the above tests are identified as “Section 2.1” within the Test Equipment Used table shown in Section 3.1.

2.1.5 Test Procedure

Test Performed in accordance with ANSI C63.4.

A preliminary profile of the Spurious Radiated Emissions was obtained by operating the EUT on a remotely controlled turntable within a semi-anechoic chamber. Measurements of emissions from the EUT were obtained with the Measurement Antenna in both Horizontal and Vertical Polarisations. The profiling produced a list of the worst-case emissions together with the EUT azimuth and antenna polarisation.

Using the information from the preliminary profiling of the EUT. The list of emissions was then confirmed or updated under Alternative Open Site conditions. Emission levels were maximised by adjusting the antenna height, antenna polarisation and turntable azimuth.

Emissions identified within the range 30MHz – 1GHz were then formally measured using a CISPR Quasi-Peak detector.

The measurements were performed at a 3m distance unless otherwise stated.



2.1 SPURIOUS RADIATED EMISSIONS - continued

2.1.6 Test Results

Equipment Designation: Unintentional Radiator.

The EUT met the requirements of FCC CFR 47: Part 15 Subpart B, Section 15.109 for Spurious Radiated Emissions (30MHz – 1GHz).

EUT Rx on Middle Channel

Measurements were made with the EUT in Idle Mode.

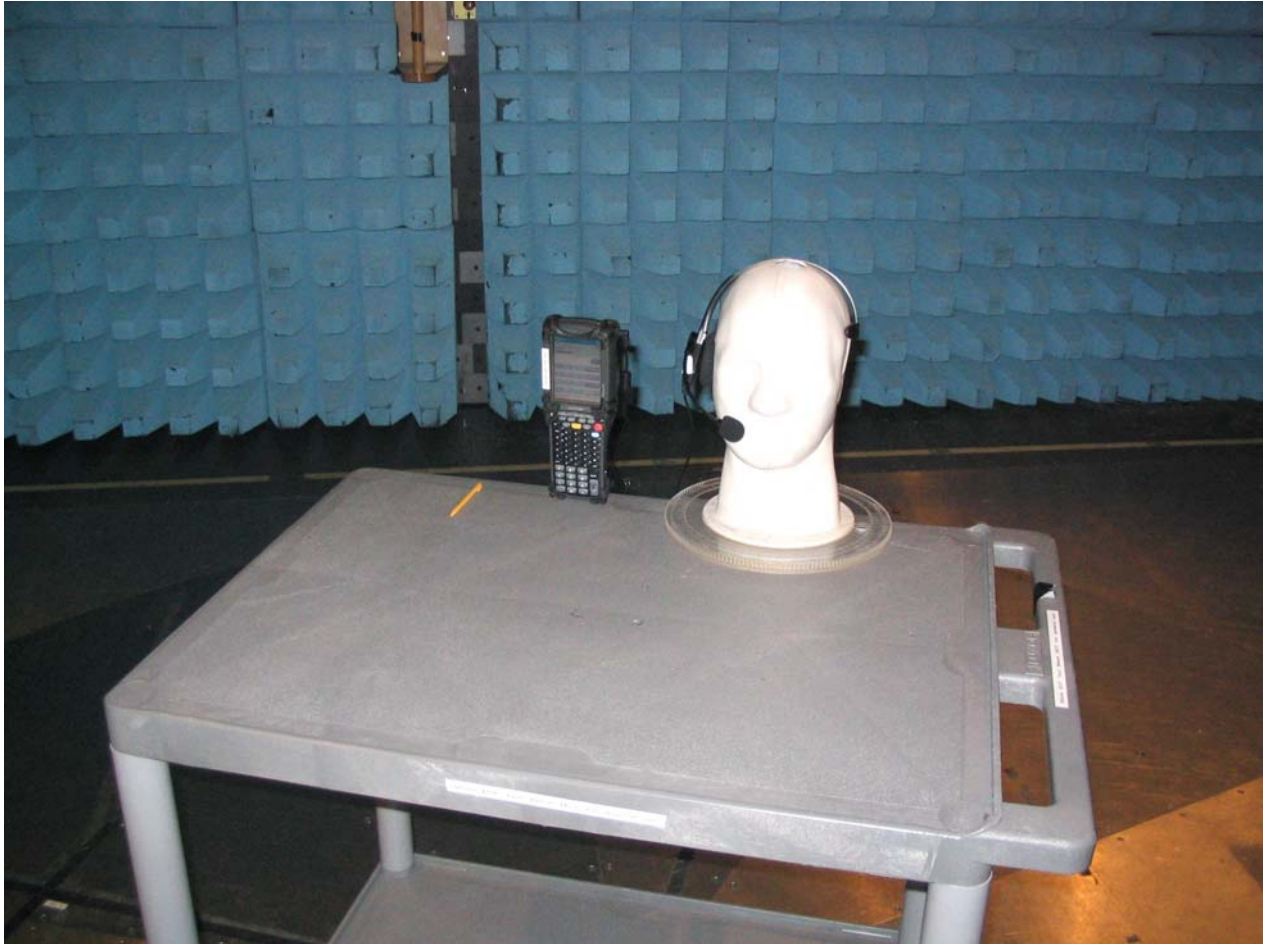
The levels of the six highest emissions measured in accordance with the specification are presented below: -

Emission Frequency	Polarisation	Height	Azimuth	Field Strength		Limit	
MHz	Horizontal/ Vertical	cm	degree	dBµV/m	µV/m	dBµV/m	µV/m
80.88	V	134	90	14.4	5.2	40.0	100.0
88.49	H	400	0	28.8	27.5	40.0	100.0
217.5	V	100	35	24.7	17.2	43.5	150.0
527.2	V	136	280	32.1	40.3	46.0	200.0
736.2	H	100	159	36.9	70.0	46.0	200.0



2.1 SPURIOUS RADIATED EMISSIONS - continued

2.1.7 Set Up Photograph



Set Up Photograph



2.2 MAXIMUM PEAK OUTPUT POWER

2.2.1 Specification Reference

FCC CFR 47: Part 24 Subpart E, Section 24.232

2.2.2 Equipment Under Test

MC9062 Mobile Computer

2.2.3 Date of Test

11th February 2004

2.2.4 Test Equipment Used

The major items of test equipment used for the above tests are identified as "Section 2.2" within the Test Equipment Used table shown in Section 3.1.

2.2.5 Test Procedure

Test Performed in accordance with ANSI C63.4.

The EUT contains an integral antenna and therefore the Maximum Peak Output Power was made using the EIRP method.

The Spectrum Analyser was tuned to the test frequency. The device Output Power setting was controlled as specified in the Product Information, Section 1.5 of this document. The device was then rotated through 360 degrees until the highest power level was observed in both horizontal and vertical polarisation. The device was then replaced with a substitution antenna, whose input signal the antenna was adjusted until the received level matched that of the previously detected emission.



2.2 MAXIMUM PEAK OUTPUT POWER - continued

2.2.6 Test Results

The EUT met the requirements of FCC Part 24, Section 24.232, Power and Antenna Height Limits.

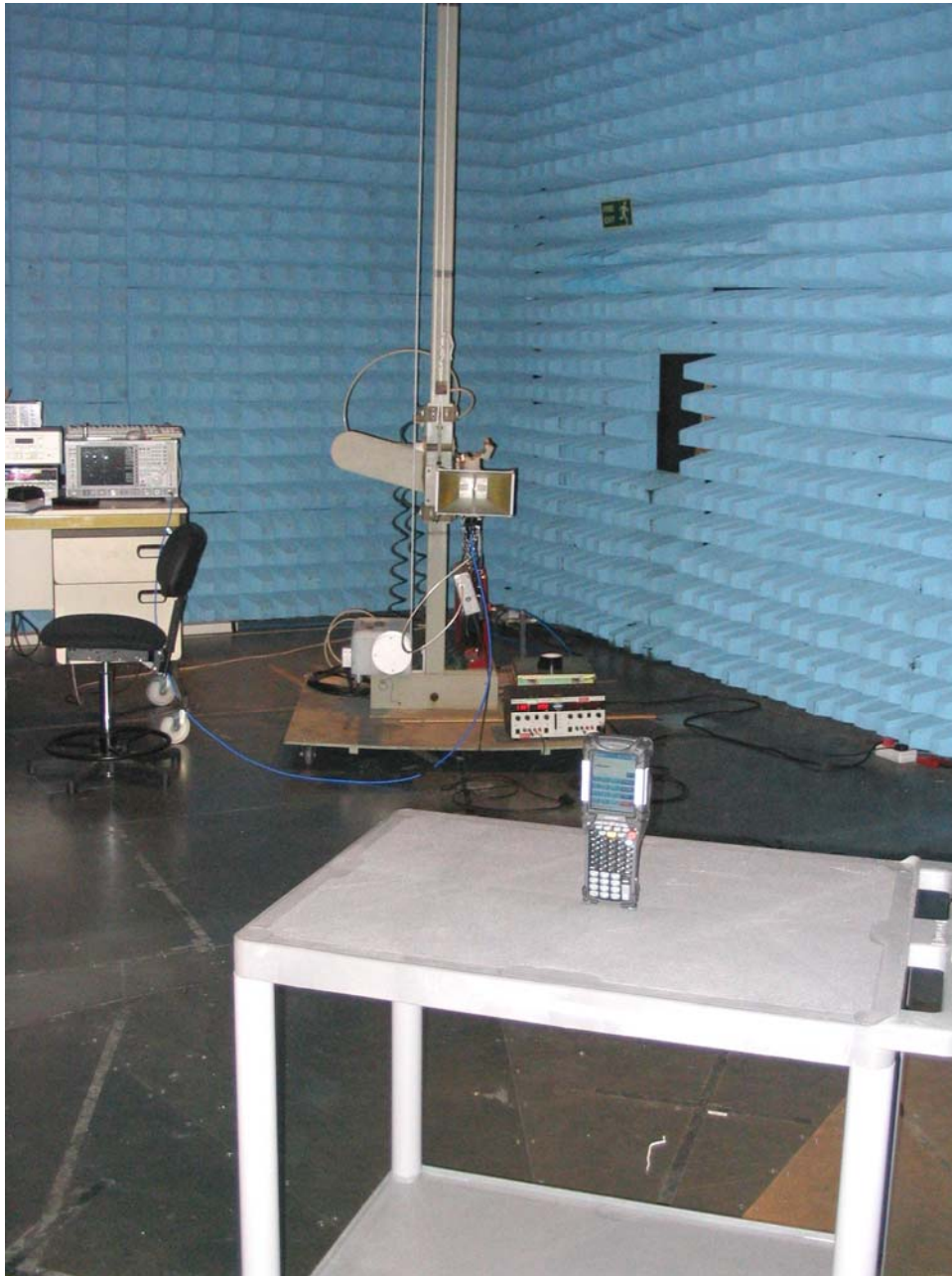
Measurements were made with the EUT in Mode 1 (GSM1900)

Frequency (MHz)	Raw Result (dBm)	Substitution Level (dBm)	Substitution Antenna Gain (dB)	Result EIRP (dBm)	Result EIRP (W)
1850.2	-9.8	-7.1	8.8	31.7	1.479
1880.0	-10.8	-7.4	8.8	31.4	1.380
1909.8	-13.7	-10.2	8.8	28.6	0.724



2.2 MAXIMUM PEAK OUTPUT POWER - continued

2.2.7 Set Up Photograph



Maximum Peak Output Power Set Up Photograph



2.3 RADIATED EMISSIONS

2.3.1 Specification Reference

FCC CFR 47: Part 24 Subpart E, Section 24.238

2.1.2 Equipment Under Test

MC9062 Mobile Computer

2.3.3 Date of Test

10th February 2004

2.3.4 Test Equipment Used

The major items of test equipment used for the above tests are identified as “Section 2.3” within the Test Equipment Used table shown in Section 3.1.

2.3.5 Test Procedure

Test Performed in accordance with ANSI C63.4.

In order to determine the Radiated Emission Limits, measurements of transmitter power (P) were first carried out on the top and bottom channels using a peak detector, and the results are shown in the following table.

A preliminary profile of the Spurious Radiated Emissions was obtained by operating the EUT on a remotely controlled turntable within a semi-anechoic chamber. Measurements of emissions from the EUT were obtained with the Measurement Antenna in both Horizontal and Vertical Polarisations. The profiling produced a list of the worst-case emissions together with the EUT azimuth and antenna polarisation.

Using the information from the preliminary profiling of the EUT. The list of emissions was then confirmed or updated under Alternative Open Site conditions. Emission levels were maximised by adjusting the antenna height, antenna polarisation and turntable azimuth.

Emissions identified within the range 30MHz – 1GHz were then formally measured using a CISPR Quasi-Peak detector.

Emissions identified within the range 1GHz – 20GHz were then formally measured using Peak and Average Detectors, as appropriate.

The measurements were performed at a 3m distance unless otherwise stated.



2.3 RADIATED EMISSIONS - continued

2.3.5 Test Procedure - continued

The limits for Spurious Emissions have been calculated, as shown in the table below using the following formula:

Field Strength of Carrier $-(43 + 10\log(P))$

Where:

Field Strength is measured in dB μ V/m

P is Declared Transmitter Power in Watts

Test Mode	Carrier Frequency GHz	Carrier Field Strength dB μ V/m	Declared Power W	Limit for Spurious Emissions dB μ V/m
Mode 1 (GSM1900)	1850.2	126.6	1.0	83.6
Mode 1 (GSM1900)	1880.0	126.1	1.0	83.1
Mode 1 (GSM1900)	1909.8	125.0	1.0	82.0

These limits have been used to determine Pass or Fail for the harmonics measured and detailed in the following tables.

The declared Power (P) is 1W.



2.3 RADIATED EMISSIONS - continued

2.3.6 Test Results - continued

30MHz – 1GHz Frequency Range

Equipment Designation: Intentional Radiator.

The EUT met the requirements of FCC Part 24.238 for Radiated Emissions (30MHz – 1GHz).

EUT Tx on Bottom Channel (1850.2MHz)

Measurements were made with the EUT in Mode 1. (GSM1900).

Emission Frequency	Pol	Hgt	Azm	Field Strength at 3m	Specification Limit
MHz	H/V	cm	deg	dBμV/m	dBμV/m
30.0	H	100	360	57.0	83.6
902.5	V	100	360	62.2	83.6
942.5	H	100	0	62.6	83.6

EUT Tx on Middle Channel (1880.0MHz)

Measurements were made with the EUT in Mode 1. (GSM1900).

Emission Frequency	Pol	Hgt	Azm	Field Strength at 3m	Specification Limit
MHz	H/V	cm	deg	dBμV/m	dBμV/m
30.0	V	100	360	56.9	83.1
815.9	H	100	360	63.0	83.1
978.7	V	100	0	62.1	83.1



2.3 RADIATED EMISSIONS - continued

2.3.6 Test Results - continued

30MHz – 1GHz Frequency Range

Equipment Designation: Intentional Radiator.

The EUT met the requirements of FCC Part 24.238 for Radiated Emissions (30MHz – 1GHz).

EUT Tx on Top Channel (1909.8MHz)

Measurements were made with the EUT in Mode 1. (GSM1900).

Emission Frequency	Pol	Hgt	Azm	Field Strength at 3m	Specification Limit
MHz	H/V	cm	deg	dBμV/m	dBμV/m
30.0	V	100	360	57.7	82.0
976.3	H	100	360	62.2	82.0
986.3	V	100	0	63.3	82.0



2.3 RADIATED EMISSIONS - continued

2.3.6 Test Results - continued

1GHz – 20GHz Frequency Range

Equipment Designation: Intentional Radiator.

The EUT met the requirements of FCC Part 24.238 for Radiated Emissions (1GHz - 20GHz).

EUT Tx on Bottom Channel (1850.2MHz)

Measurements were made with the EUT in Mode 1. (GSM1900)

Frequency	Antenna Polarisation	Height	Azimuth	Peak Field Strength	Peak Limit
GHz	H/V	cm	deg	dBµV/m	dBµV/m
3.700	V	116	162	72.8	83.6
5.551	V	100	176	62.2	83.6
7.401	V	100	180	61.2	83.6
11.101	H	100	248	67.4	83.6
12.951	H	106	214	68.6	83.6

EUT Tx on Middle Channel (1880.0MHz)

Measurements were made with the EUT in Mode 1. (GSM1900)

Frequency	Antenna Polarisation	Height	Azimuth	Peak Field Strength	Peak Limit
GHz	H/V	cm	deg	dBµV/m	dBµV/m
5.640	V	100	170	62.0	83.1
7.520	V	100	176	62.3	83.1
11.280	H	109	188	68.8	83.1
13.160	H	103	243	66.4	83.1



2.3 RADIATED EMISSIONS - continued

2.3.6 Test Results - continued

1GHz – 25GHz Frequency Range

Equipment Designation: Intentional Radiator.

The EUT met the requirements of FCC Part 24.238 for Radiated Emissions (1GHz - 20GHz).

EUT Tx on Top Channel (1909.8MHz)

Measurements were made with the EUT in Mode 1. (GSM1900)

Frequency	Antenna Polarisation	Height	Azimuth	Peak Field Strength	Peak Limit
GHz	H/V	cm	deg	dBµV/m	dBµV/m
3.819	V	100	199	76.2	82.0
5.729	V	137	179	59.9	82.0
7.724	V	100	199	58.5	82.0
11.458	H	131	218	64.2	82.0
13.368	H	100	248	70.3	82.0

ABBREVIATIONS FOR ABOVE TABLES

H Horizontal Polarisation

V Vertical Polarisation



2.3 RADIATED EMISSIONS - continued

2.3.7 Set Up Photograph



Radiated Emissions Set Up Photograph



SECTION 3

TEST EQUIPMENT USED



3.1 TEST EQUIPMENT USED

Item	Instrument	Manufacturer	Type No	Serial No	EMC / INV No	Cal. Due
Section 2.1						
1	Turntable & Controller	H-D	HD 050	050/396	2528	TU
2	Antenna Mast	EMCO	2070	-	-	TU
3	Antenna Mast Controller	EMCO	2090	-	-	TU
4	Screened Room 5	SIE	EAC54300	NA	2533	TU
5	Receiver	HEW	8542E	-	2286	09/12/2004
6	Bilog Antenna	Chase	Cbl 6143	-	2860	11/04/2004
7	GSM Test Set	HEW	8922M	-	3803	TU
8	DCS Test Set	HEW	8922E	-	3804	TU
Section 2.2						
9	Turntable & Controller	H-D	HD 050	050/396	2528	TU
10	Antenna Mast	EMCO	2070	-	-	TU
11	Antenna Mast Controller	EMCO	2090	-	-	TU
12	Screened Room 5	SIE	EAC54300	NA	2533	TU
13	High Pass Filter	RLC	F-100-3000-5-R	-	4467	TU
14	Test Receiver	ROH	ESIB 40	100181	2972	08/11/2004
15	Horn Antenna	EMC	3115	96964848	2297	04/07/2004
16	Horn Antenna	EMC	3115	97015079	2397	04/07/2004
17	Aneroid Barometer	VAR	DIPLEX	B05/1-04B04	1938	TU
18	Hygromer	RTC	A1	10400016	4066	28/08/2004
19	Signal Generator	ROH	SMT03	848161/006	2449	09/04/2004



3.1 TEST EQUIPMENT USED – Continued

Item	Instrument	Manufacturer	Type No	Serial No	EMC / INV No	Cal. Due
Section 2.3						
20	Turntable & Controller	H-D	HD 050	050/396	2528	TU
21	Antenna Mast	EMCO	2070	-	-	TU
22	Antenna Mast Controller	EMCO	2090	-	-	TU
23	Screened Room 5	SIE	EAC54300	NA	2533	TU
24	High Pass Filter	RLC	F-100-3000-5-R	-	4467	TU
25	Low Noise Amplifier	MIQ	AMF-3D-001080-18-13P	-	2457	TU
26	Low Noise Amplifier	MIQ	AMF-3D-001080-15-10P		2430	TU
27	Test Receiver	ROH	ESIB 40	100181	2972	08/11/2004
28	Horn	EMCO	3115	-	2397	04/07/2004
29	Barometer	DIP	-	-	1938	TU
30	Hygrometer	RTC	A1	10400016	4066	28/08/2004
31	Low Noise Amplifier	AVA	AWT-18036	-	1081	TU
32	Amplifier	AVA	AMT-26177-33	6669	2072	26/06/2004
33	Horn Antenna	FLA	2024-20	164	1396	TU
34	Signal Generator	ROH	SMT03	848161/006	2449	09/04/2004

Key To Manufacturers

AVA	Avantek
DIM	Dimplex
EMC	Emco
FLA	Flann
H-D	No Data
HEW	Hewlett Packard
MIQ	Miteq Corp
ORE	Oregon
RLC	RLC Electronics
ROH	Rohde & Schwarz
RTC	Rotronic
SEM	Sematron
SCH	Schaffner
SIE	Siemens
VAR	Various
TU	Traceability Unscheduled



3.2 MEASUREMENT UNCERTAINTY

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

IN THE FREQUENCY RANGE 30MHz TO 1000MHz		
TEST	FREQUENCY	AMPLITUDE
For Radiated Emissions, Quasi-Peak Measurements taken in Zero Span using the Hewlett Packard EMI Receiver and Bilog Antenna	$\pm 2 \times 10^{-7} \times \text{Centre Frequency}$	5.15dB calculated in accordance with CISPR 16-4
IN THE FREQUENCY RANGE 1GHz TO 20GHz		
TEST	FREQUENCY	AMPLITUDE
For Spurious Radiated Emissions measurements	$\pm 2 \times 10^{-7} \times \text{Centre Frequency}$	$\pm 3.4\text{dB}$
For Effective Radiated Power (ERP) measurements	Not Applicable	$\pm 1.45\text{dBm}$



SECTION 4

EUT PHOTOGRAPH



EUT PHOTOGRAPH



Front View



SECTION 5

ACCREDITATION, DISCLAIMERS AND COPYRIGHT



5.1 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
(Not UKAS Accredited).

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APPENDIX A

TITCHFIELD FCC SITE COMPLIANCE LETTER



FEDERAL COMMUNICATIONS COMMISSION

**Laboratory Division
7435 Oakland Mills Road
Columbia, MD 21046**

October 18, 2002

Registration Number: 90987

TUV Product Service Ltd
Segensworth Road
Titchfield
Fareham, Hampshire, PO15 5RH
United Kingdom
Attention: Kevan Adsetts

Re: Measurement facility located at Titchfield
Anechoic chamber (3 meters) and 3 & 10 meter OATS
Date of Listing: October 18, 2002

Gentlemen:

Your request for registration of the subject measurement facility has been reviewed and found to be in compliance with the requirements of Section 2.948 of the FCC rules. The information has, therefore, been placed on file and the name of your organization added to the list of facilities whose measurement data will be accepted in conjunction with applications for Certification under Parts 15 or 18 of the Commission's Rules. Please note that the file must be updated for any changes made to the facility and the registration must be renewed at least every three years.

Measurement facilities that have indicated that they are available to the public to perform measurement services on a fee basis may be found on the FCC website www.fcc.gov under E-Filing, OET Equipment Authorization Electronic Filing, Test Firms.

Sincerely,

Thomas W Phillips
Electronics Engineer