



ELECTRONIC TECHNOLOGY SYSTEMS
DR. GENZ GMBH

GSM PHASE II TEST - REPORT

EN 301 419-1
EN 301 420

Test report no.: G0M20110-5602-T-51



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ELECTRONIC TECHNOLOGY SYSTEMS
DR. GENZ GMBH

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1 General Information

1.1 Notes

The test results of this test report relate exclusively to the test item specified in 1.5. The Electronic Technology Systems Dr. Genz GmbH does not assume responsibility for any conclusions and generalisations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publications of extracts from the test report requires the prior written approval of the Electronic Technology Systems Dr. Genz GmbH.

- Only applicable to protocol testing services -

The purpose of conformity testing is to increase the probability of adherence to essential requirements or conformity specifications, as appropriate. The complexity of the technical specifications, however, means that the full and thorough testing is impracticable for both technical and economic reasons. Furthermore, there is no guarantee that a test sample which has passed all the relevant tests conforms to a specification. Neither is there any guarantee that such a test sample will interwork with other genuinely open systems. The existence of the test nevertheless provides the confidence that the test sample possess the qualities as maintained and that is performance generally conforms to representative cases of communications equipment.

A declaration by the manufacturer has to been submitted for all non tested required parameters and technical procedures which certifies the conformation to the corresponding subclauses of the EN 301 419-1 and EN 301 420.

Tester:

26.09.2001

B. Kramer

Date

Name

Signature

Technical responsibility for area of testing:

26.09.2001

Dr. D. Genz

Date

Name

Signature

1.2 Testing laboratory

1.2.1 Location

ELECTRONIC TECHNOLOGY SYSTEM DR. GENZ GMBH (ETS)
Storkower Straße 38c
D-15526 Reichenwalde b. Berlin
Germany
Telefon : +49 33631 888-0
Telefax : +49 33631 888-66

1.2.2 Details of accreditation status

ACCREDITED TESTING LABORATORY

Accredited by: Bundesamt für Post und Telekommunikation (BAPT)

DAR-REGISTRATION NUMBER: TTL-P-G 126/96-30

ACCREDITED COMPETENT BODY

Accredited by: Bundesamt für Post und Telekommunikation (BAPT)

DAR-REGISTRATION NUMBER: BPT-ZE-026/96-00

1.2.3 Test location, where different from ETS



1.3 Details of applicant

Name : WAVECOM S.A.
 Street : 39, rue du Gouverneur Général Fiboué
 Town : ISSY les MOULINEAUX
 Country : France
 Telephone : +33 1 46 29 08 00
 Fax : +33 1 46 29 08 08
 Contact : Mr. Laurent Girault
 Email : laurent.girault@wavecom.com

1.4 Application details

Date of receipt of application : 22.03.2001
 Date of receipt of test item : 22.03.2001
 Date of test : 22.03.2001-12.04.2001
 Date of re-test :

1.5 Test item

Description of test item : WAVECOM Embedded modem with XXXXXXXXXX
 Phase Identification : Phase II
 Type identification : WMOI3 2 900/1800
 Serial number : without serial number
 Software : 420_09gm.2C2
 Hardware : V2.0

Manufacturer : (if applicable)

Name :
 Street :
 Town :
 Country :

Photos of the test item: see annex 1

1.6 Test standard

- EN 301 419-1, (GSM 13.01) April 2000 version 4.1.1
- EN 301 420, (GSM 13.02) December 1999 version 4.0.1
- ETS 300 607-1, (GSM 11.10-1) September 2000 version 4.28.1
- GT.01, December 2000, version 4.7.0

1.7 Additional information

This test report is not a complete one and therefore not all test cases of EN 301 419-1 and EN 301 420 are listed. The test cases listed within this report are those which the customer has requested for.

1.8 Abbreviations used for the test results

PASS	EUT passed this test case
PASS(*)	EUT passed this test case, but verdict passed by the test engineer
FAIL	EUT failed this test case
INC.	EUT did not pass and did not fail this test case, therefore the verdict "INCONCLUSIVE"
n.a.	Test case not applicable for the EUT
M1	Either GSM 900 or 1800 testing should be performed for multiband testing
M2	Both GSM 900 and 1800 testing should be performed for multiband testing
C	Manufactures declaration with evidence
D	Manufactures declaration without evidence

2 Technical Test

2.1 Summary of test results

No deviations from the requirements were ascertained in the course of the test performed.

The deviations from the requirements as shown in clause 3 were ascertained in the course of the test performed.

2.2 Test environment

Temperature	: 18 ... 25 °C
Relative humidity content	: 20 ... 75 %
Air pressure	: 860 ... 1030 hPa
Details of power supply	: 220 ... 240 V AC
Other parameter	:
- Extreme test conditions	: Operating voltage of the mobile $V_{nom} = 5.00 \text{ V DC}$ $V_{min} = 4.75 \text{ V DC}$ $V_{max} = 5.25 \text{ V DC}$

- Extreme temperature : - 20 / 55 °C

2.3 Measurement and test set-up

GSM/ PCN/ PCS Test System TS8916B by Rohde&Schwarz
 GSM System Simulator FTA by Rohde&Schwarz

Test configuration and procedures in accordance to the GSM 11.10

2.4 Test equipment utilized

1. Type: GSM System Simulator FTA
Software: SCS Version 02.12 (Phase 2)
Hardware: 494246/001
Manufacturer: Rohde&Schwarz
Applied standard: MoU permanent reference document GT.01
2. Type: GSM/PCN/PCS TS8916B
Software: CRIC System SW CR02PH2 Rev. 2.03
Hardware: TS8916B Operation SW Rev. 1.45
Manufacturer: Rohde&Schwarz
Applied standard: MoU permanent reference document GT.01
3. Type: GSM/PCN/PCS Standalone Tester CRIC02
Software: D02PH2 Rev 1.45
Hardware: DU 848202/003 / AU 848228/003
Manufacturer: Rohde&Schwarz
Applied standard: MoU permanent reference document GT.01
4. Type: GSM SIM Simulator
Software: V 2.05
Hardware: V 2.03 Rev. 01
Manufacturer: Orga Kartensysteme
Applied standard: MoU permanent reference document GT.01
5. Anechoic chamber by the ETS Dr. Genz GmbH
6. Vibration table by the ETS Dr. Genz GmbH
7. Climatic chamber by the ETS Dr. Genz GmbH

3 Test Results

3.1 Test group overview

- 12 Transceiver
- 13 Transmitter
- 14 Receiver
- 15 Timing advance and absolute delay
- 16 Reception time tracking speed
- 19 Channel release after unrecoverable errors
- 20 Cell selection and Reselection
- 21 Received signal measurements
- 26 Tests of layer 3 functions
- 30 Speech teleservices
- 31 Test of supplementary services
- 34 Short messages services



3.2 Tests under normal and extreme test conditions

Test case	DESCRIPTION	Category		Verdict		Comments
		GSM 900	MULTI Band	GSM 900	MULTI Band	
12						
12.1.1	Conducted spurious emissions - MS allocated a channel - NTC	A	A	passed	passed	
	VH			passed	passed	
	VL			passed	passed	
12.1.2	Conducted spurious emissions - MS in idle mode NTC	A	A	passed	passed	
	VH			passed	passed	
	VL			passed	passed	
12.2.1	Radiated spurious emissions - MS allocated a channel - NTC	A	A	passed	passed	
	VH			passed	passed	
	VL			passed	passed	
12.2.2	Radiated spurious emissions - MS in idle mode	A	A	passed	passed	
	VH			passed	passed	
	VL			passed	passed	
13						
13.1	Transmitter - Frequency error and phase error - NTC	A	A	passed	passed	
	TH/VH			passed	passed	
	TH/VI			passed	passed	
	TL/VH			passed	passed	
	TL/VI			passed	passed	
	vibration			passed	passed	
13.3-1	Transmitter output power and burst timing - MS with permanent antenna connector - NTC	A	A	passed	passed	
	TH/VH			passed	passed	
	TH/VI			passed	passed	
	TL/VH			passed	passed	
	TL/VI			passed	passed	
14						
14.2.1	Receiver / Reference sensitivity - TCH/FS - NTC	A	A	passed	passed	
	TH/VH			passed	passed	
	TH/VI			passed	passed	
	TL/VH			passed	passed	
	TL/VI			passed	passed	



Test case	DESCRIPTION	Category		Verdict		Comments
		GSM 900	MULTI Band	GSM 900	MULTI Band	
14.3	Receiver / Usable receiver input level range - NTC	A	A	passed	passed	
	TH/VH			passed	passed	
	TH/VI			passed	passed	
	TL/VH			passed	passed	
	TL/VI			passed	passed	
14.5.1	Adjacent channel rejection - speech channels - NTC	A	A/C	passed	passed	
	TH/VH			passed	passed	
	TH/VI			passed	passed	
	TL/VH			passed	passed	
	TL/VI			passed	passed	
15						
15	Timing advance and absolute delay	A/C	A	passed	passed	
16						
16	Reception time tracking spread	A	A	passed	passed	
19						
19.2	Channel release after unrecoverable errors - 2	A	A	passed	passed	
20						
20.1	Cell Selection	A	A	passed	passed	
20.2	Cell selection with varying signal strength values.	A	A	passed	passed	
20.3	Basic Cell Reselection	A	A	passed	passed	
20.5	Cell reselection using parameters transmitted in the SYSTEM INFORMATION TYPE 2X, 7 and 8 messages	A	A	passed	passed	
20.8	Cell Reselection when CI (serving cell) < 0 for 5 secs	A	A	passed	passed	
20.11	Updating list of 6 strongest neighbour carriers and decoding BCCH sub of a new carrier on the list.	A	A	passed	passed	
20.12	Decoding the BCCH information of the neighbour carriers on the list of six strongest neighbour carriers.	A	A	passed	passed	
21						
21.1	Received signal measurements - Signal strength - NTC	A	A	passed	passed	
	TH/VH			passed	passed	



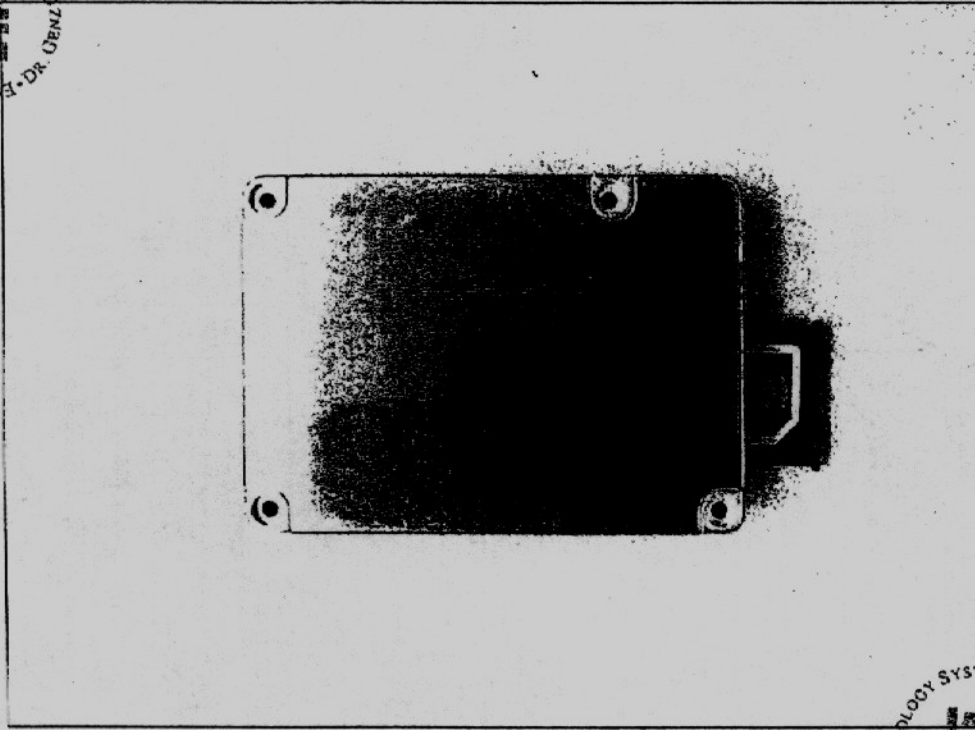
Test case	DESCRIPTION	Category				Verdict				Comments
		GSM 900	GSM 1800	MULTI Band	GSM 1000	GSM 900	GSM 1800	MULTI Band	GSM 1000	
	TH/VL				passed	passed			passed	
	TL/VH				passed	passed			passed	
	TL/VL				passed	passed			passed	
21.3.1	Received signal measurements - Signal quality under static conditions - TCH/FPS	A	A	M2	passed	passed			passed	
26										
26.6.3.1	Measurement / no neighbours	A	A	M2	passed	passed			passed	
26.6.3.2	Measurement / all neighbours present	A	A	M2	passed	passed			passed	
26.6.3.3	Measurement / barred cells and non permitted NCC's	A	A	M2	passed	passed			passed	
26.6.3.4	Measurement / DTX	A	A	M2	passed	passed			passed	
26.6.3.6	Measurement / Multiband environment	A	A	N	passed	passed			passed	
26.6.5.1-1	Handover / successful / active call / non-synchronized / procedure 1	A	A	M2	passed	passed			passed	
26.6.5.1-3	Handover / successful / active call / non-synchronized / procedure 3	A	A	M2	passed	passed			passed	
26.6.5.2-1	Handover / successful / cell under establishment / non-synchronized / procedure 1	A	A	M2	passed	passed			passed	
26.6.5.2-4	Handover / successful / cell under establishment / non-synchronized / procedure 4	A	A	M2	passed	passed			passed	
26.6.5.2-8	Handover / successful / cell under establishment / non-synchronized / procedure 8	A	A	M2	passed	passed			passed	
26.6.5.3-1	Handover / successful / active call / finely synchronized / procedure 1	A	A	M2	passed	passed			passed	
26.6.5.4-2	Handover / successful / call under establishment / finely synchronized / procedure 2	A	A	M2	passed	passed			passed	
26.6.5.5.1	Handover / successful / active call / pro-synchronized / Timing Advances 1B not included	A	A	M2	passed	passed			passed	
26.6.5.9	Handover / L1 failure	A	A	M2	passed	passed			passed	
26.8.1.2.2.2	Outgoing call / 10.1 MM connection pending / CM server accepted	A	A	M1	passed	passed			passed	
26.8.1.2.3.6	Outgoing call / U1 call initiated / entering state U10	A	A	M1	passed	passed			passed	
26.8.1.2.4.4	Outgoing call / U3 MS originating call proceeding / PROGRESS with in band information	A	A	M1	passed	passed			passed	
26.8.1.2.5.3	Outgoing call / U4 call deinitialized / DISCONNECT with in band tones	A	A	M1	passed	passed			passed	
26.8.1.2.6.3	U10 call active / DISCONNECT with in band tones	A	A	M1	passed	passed			passed	
26.8.1.2.7.3	U11 disconnect request / timer T305 timeout	A	A	M1	passed	passed			passed	
26.8.1.3.1.1	Incoming call / U0 null state / SETUP received with a non supported bearer capability	A	A	M1	passed	passed			passed	
26.8.1.3.4.2	Incoming call / U7 call received / termination requested by the user	A	A	M1	passed	passed			passed	
26.8.1.3.5.2	Incoming call / U8 connect request / timer T313 timeout	A	A	M1	passed	passed			passed	

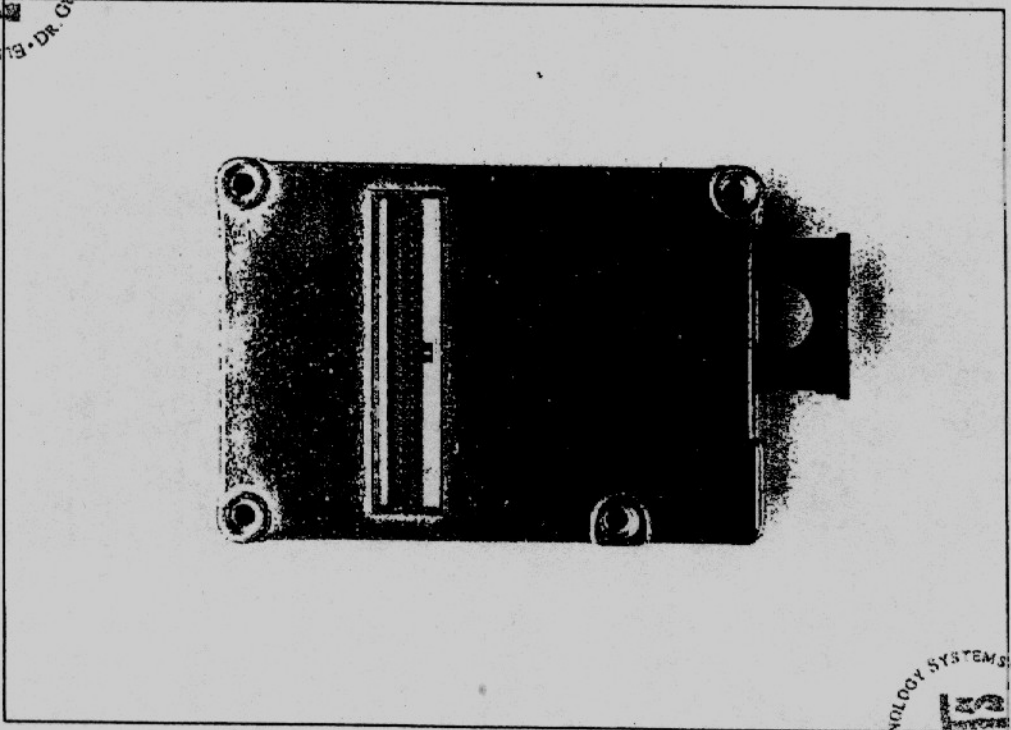
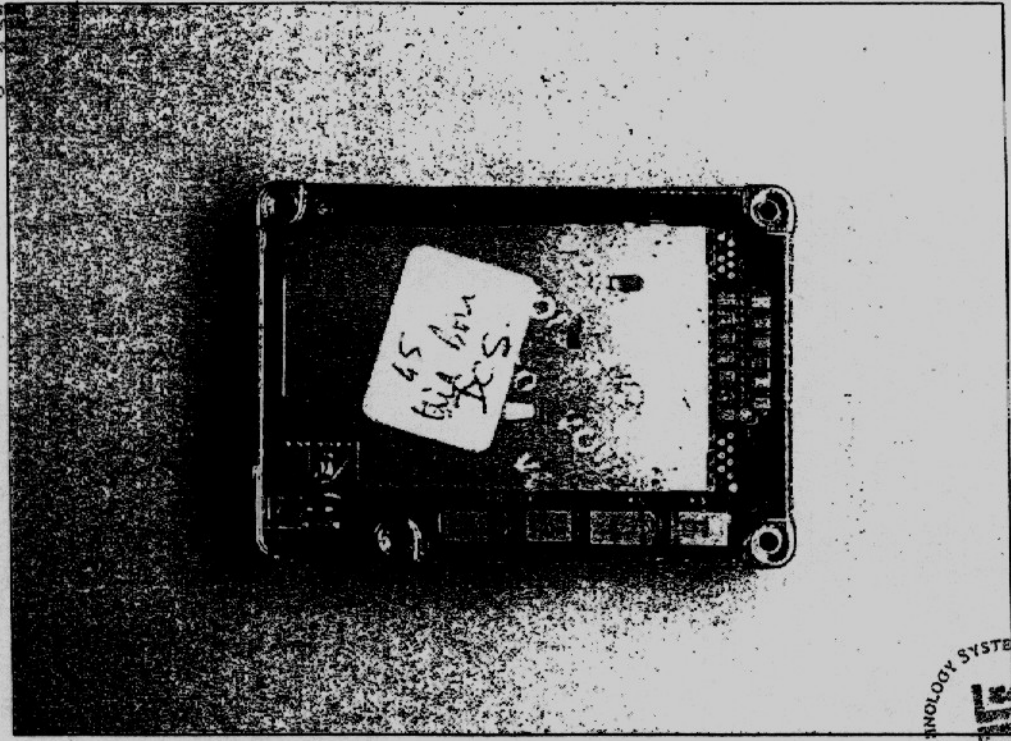


Test case	DESCRIPTION	Category				Verdict				Comments
		GSM 900	GSM 1800	MULTI Band	GSM 1800	GSM 900	GSM 1800	MULTI Band	GSM 1800	
26.8.1.4.5.1	In-call functions / MS originated in-call modification / A successful case of modifying	A	A	M1	passed	passed			passed	
26.8.2.1	Call Re-establishment / Call Present, re-establishment allowed.	A	A	M2	passed	passed			passed	
26.8.2.2	Call Re-establishment / Call Present, re-establishment not allowed.	A	A	M2	passed	passed			passed	
26.8.2.3	Call Re-establishment / Call under establishment, transmission stopped.	A	A	M2	passed	passed			passed	
26.8.3	User to user signalling	A	A	M1	passed	passed			passed	
26.9.3	Structured procedures / MS originated call / late assignment	A	A	M2	passed	passed			passed	
26.9.4	Structured procedures / MS terminated call / early assignment	A	A	M2	passed	passed			passed	
26.9.6.1.1	Structured procedures / emergency call / idle updated / preferred channel rate	A/C	A	M2	passed	passed			passed	
26.9.6.1.2	Structured procedures / emergency call / idle updated, non-preferred channel rate	A	A	M2	passed	passed			passed	
26.9.6.2.1	Structured procedures / emergency call / idle, no IMSI / accept case	A	A	M2	passed	passed			passed	
26.9.6.2.2	Structured procedures / emergency call / idle, no IMSI / reject case	A	A	M2	passed	passed			passed	
30										
30.1	Sending sensitivity / Frequency response	A	A	M1	passed	passed			passed	
30.2	Sending loudness rating	A	A	M1	passed	passed			passed	
30.3	Receiving sensitivity / frequency response	A	A	M1	passed	passed			passed	
30.4	Receiving loudness rating	A	A	M1	passed	passed			passed	
30.5.1	Side Tone Masking Rating (STMR)	A	A	M1	passed	passed			passed	
30.6.2	Telephone acoustic coupling loss (TAL) Stability margin	A	A/C	M1	passed	passed			passed	
30.7.1	Distortion - Sending	A	A/C	M1	passed	passed			passed	
31										
31.6.1.1	AOC time related charging / MS originated call	A	A	M1	passed	passed			passed	
31.6.1.2	AOC time related charging / MS terminated call	A	A	M1	passed	passed			passed	
31.6.1.5	Change in charging information during a call	A	A	M1	passed	passed			passed	
31.6.1.8	AOC on a Multi Party call	A	A	M1	passed	passed			passed	
31.6.2.1	Charge Storage - Removal of SIM during an active call	A	A	M1	passed	passed			passed	
31.6.2.2	Charge Storage - Interruption of power supply during an active call	A	A	M1	passed	passed			passed	
31.6.2.3	Charge Storage - MS going out of coverage during an active AOC Call	A	A	M1	passed	passed			passed	
31.6.2.4	Charge Storage - ACMmax operation / Mobile Originating	A	A	M1	passed	passed			passed	
31.6.2.5	Charge Storage - ACMmax operation / Mobile Terminating	A	A	M1	passed	passed			passed	
34										

Test case	DESCRIPTION	Category		Verdict		Comments
		GSM 900	GSM 1800	GSM 900	MULTI Band	
34.2.1	Short message service / SMS point to point - SMS mobile terminated	A	A	passed		
34.2.2	Short message service / SMS point to point - SMS mobile originated	A	A	passed		
34.2.3	Short message service / SMS point to point - Test of memory full condition and memory available notification:	A	A	passed		
34.2.5.3	Short message service / Test of message class 0 to 3 - Test of Class 2 Short Message	A	A	passed		
34.3	Short message service cell broadcast	A	A	passed		

Annex I: Photos of the EUT







Annex II: PIXIT Information of the EUT

Mobile type Dual Band Integrated Modem WMO3-2 900/1800

TYPES OF MOBILE STATION (Table A.1)

1)	Standard GSM Band	Y
2)	Extended GSM Band	Y
3)	DCS 1800	Y
4)	GSM Power Class 2	N
5)	GSM Power Class 3	N
6)	GSM Power Class 4	Y
7)	GSM Power Class 5	N
8)	DCS Power Class 1	Y
9)	DCS Power Class 2	N
10)	DCS Power Class 3	N
11)	Small Mobile Station	N

MOBILE STATION FEATURES (Table A.2)

1)	Display of Called Number	Y
2)	Indication of Call Progress Signals	N
3)	Country / PLMN Indication	Y
4)	Country / PLMN Selection	Y
5)	Keypad	N
6)	IMEI	Y
7)	Short Message Overflow	Y
8)	DTX / DCF Interface	Y
9)	ISDN 'S' Interface	N
10)	International Access Function	Y
11)	Service Indicator	Y
12)	Autocalling restriction capabilities	Y
13)	Dual Tone Multi Frequency function	Y
14)	Subscription Identity Management	Y
15)	On / Off Switch	Y
16)	Sub-address	N
17)	Support of Encryption A5/1	Y
18)	Support of Encryption A5/2	Y
19)	Short Message Service Cell Broadcast DRX..	Y
20)	Abbreviated Dialling	Y
21)	Fixed Number Dialling	Y
22)	Barring of Outgoing Calls	N
23)	DTMF Control Digits Separator	N
24)	Selection of Dir. No In Short Messages	N
25)	Last Numbers Dialed	Y
26)	At least one Autocalling Feature	N
27)	Human interface provided	N



TELESERVICES (Table A.3)

1)	Telephony	Y
2)	Emergency Call	Y
3)	Short Message MT/PP	Y
4)	Short Message MO/PP	Y
5)	SMS Cell Broadcast	Y
6)	Telex, Alternate Speech and G3 fax	N
7)	Telex Automatic G3 fax	Y

BEARER SERVICES (Table A.4)

1)	Data cct. duplex async. 300 bit/s	Y
2)	Data cct. duplex async. 1200 bit/s	Y
3)	Data cct. duplex async. 1200/7.5bit/s	Y
4)	Data cct. duplex async. 2400 bit/s	Y
5)	Data cct. duplex async. 4800 bit/s	Y
6)	Data cct. duplex async. 9600 bit/s	Y
7)	Data cct. duplex sync. 1200 bit/s	N
8)	Data cct. duplex sync. 2400 bit/s	N
9)	Data cct. duplex sync. 4800 bit/s	N
10)	Data cct. duplex sync. 9600 bit/s	N
11)	PAD Access 300 bit/s	N
12)	PAD Access 1200 bit/s	N
13)	PAD Access 1200/7.5bit/s	N
14)	PAD Access 2400 bit/s	N
15)	PAD Access 4800 bit/s	N
16)	PAD Access 9600 bit/s	N
17)	Packet Access 2400 bit/s	N
18)	Packet Access 4800 bit/s	N
19)	Packet Access 9600 bit/s	N
20)	Alternate Speech/Data	N
21)	Speech Followed by Data	N

SUPPLEMENTARY SERVICES (Table A.5)

1)	Calling Line Identification Presentation	Y
2)	Calling Line Identification Restriction	Y
3)	Connected Line Identification Presentation	Y
4)	Connected Line Identification Restriction	Y
5)	Call Forwarding Unconditional	Y
6)	Call Forwarding on Mobile Subscriber Busy	Y
7)	Call Forwarding on No Reply	Y
8)	Call Forw. on Mobile Subscr. Not Reachable	Y
9)	Call Waiting	Y
10)	Call Hold	Y
11)	Multi Party Service	Y
12)	Closed User Group	Y
13)	Advice of Charge (into)	Y
14)	Advice of Charge (charging)	Y
15)	Barring of All Outgoing Calls	Y
16)	Barring of Outgoing International Calls	Y
17)	Barring of Outgoing International Calls except those directed to Home PLMN Country	Y
18)	Barring of All Incoming Calls	Y
19)	Barring of Incoming Calls when Roaming Outside Home PLMN Country	Y
20)	Unstructured SS Data	Y

GROUPS FOR POSSIBLE BEARER CAPABILITIES (Table A.6)

1)	Bearer Service 21..26, unrestricted dig. info Transfer Capability	Y
2)	B.S. 21..26, 3.1 kHz audio ex-PLMN info Transfer Capability	Y
3)	B.S. 31..34, unresr. digital info Transfer Capability; Non-X-32 Cases (BS 31..BS 34)	N
4)	B.S. 31..34, unresr. digital info Transfer Capability; X-32 Cases	N
5)	B.S. 31..34, 3.1 kHz audio ex-PLMN info Transf. Capab.; Non-X-32 Cases (BS 31..BS 34)	N
6)	B.S. 31..34, 3.1 kHz audio ex-PLMN info Transf. Capab.; X-32 Cases	N
7)	B.S. 41..46, PAD Access Async	N
8)	B.S. 51..53, Data Paket Dupl. Sync	N
9)	Alternate Speech/Data, "Speech"	N
10)	Alt. Speech/Data, 3.1 kHz audio ex-PLMN info Transf. Cap.; Asynchronous	N
11)	Alt. Speech/Data, 3.1 kHz audio ex-PLMN info Transf. Cap.; Synchronous	N
12)	Speech followed by Data, "Speech"	N
13)	Speech fol. by Data, 3.1 kHz audio ex-PLMN info Transf. Cap.; Asynchronous	N
14)	Speech fol. by Data, 3.1 kHz audio ex-PLMN info Transf. Cap.; Synchronous	N
15)	Teleservice 11..12, Speech	Y
16)	Alternate Speech and Facsimile group 3; Speech	N
17)	Alternate Speech and Facsimile group 3; Facsimile group 3	N



Bearer Service 21.26, UDI (Table A.7)

1)	Signalling Access Protocol (SAP)	Y
2)	Connection Element (CE)	Y
3)	User Info Layer 2 Protocol (UIL2P)	Y
4)	Number of Data Bits(NDB)	Y
5)	Parity Information (NPI)	Y
6)	Number of Stop Bits (NSB)	Y
7)	Radio Channel Requirement (RCR)	Y
8)	Intermediate Rate (IR)	Y
9)	User Rate (UR)	Y
10)	all allowed combinations according to GSM 07.01 B.1.2.1 Implemented (if not, provide detailed description)	Y

Bearer Service 21.26, 3.1 KHz (Table A.8)

1)	Signalling Access Protocol (SAP)	Y
2)	Connection Element (CE)	Y
3)	User Info Layer 2 Protocol (UIL2P)	Y
4)	Number of Data Bits(NDB)	Y
5)	Parity Information (NPI)	Y
6)	Number of Stop Bits (NSB)	Y
7)	Radio Channel Requirement (RCR)	Y
8)	Intermediate Rate (IR)	Y
9)	User Rate (UR)	Y
10)	Modem Type (MT)	Y
11)	all allowed combinations according to GSM 07.01 B.1.2.2 Implemented (if not, provide detailed description)	Y

Teleservice 11.12, Speech (Table A.21)

1)	Radio Channel Requirement (RCR)	Y
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Teleservice 62, Automatic G3 fax (Table A.24)

1)	Connection Element (CE)	Y
2)	User Info Layer 2 Protocol (UIL2P)	Y
3)	Intermediate Rate (IR)	Y
4)	User Rate (UR)	Y
5)	all allowed combinations according to GSM 07.01 B.1.11 Implemented (if not, provide detailed description)	Y

ADDITIONAL INFORMATION (Table A.25)

1)	At least one half Rate Service	Y
2)	Full Rate Speech Mode	Y
3)	Half Rate Speech Mode	Y
4)	At least one Data Service	Y
5)	At least one Full Rate Data Service	Y
6)	At least one Half Rate Data Service	Y
7)	At least one Non-Transparent Data Service.	Y
8)	At least one Transparent Data Service	Y
9)	Only Transparent Data Service	N
10)	At least one asyn. Data Service	Y
11)	At least one asyn. non Transp. Data Serv	Y
12)	2.4k full Rate Data Mode	Y
13)	2.4k half Rate Data Mode	Y
14)	4.8k full Rate Data Mode	Y
15)	4.8k half Rate Data Mode	Y
16)	9.6k full Rate Data Mode	Y
17)	Non transp. Serv. with full Rate Channel at a User Rate of 4.8kbit/s	N
18)	At least one Bearer Capability	Y
19)	At least one MT cct. switched basic Service	Y
20)	At least one MO cct. switched basic Service	Y
21)	Only SDCCCH	N
22)	At least one Service on Traffic Channel	Y
23)	Dual Rate Channel Types	Y
24)	Only Full Rate Channel Type	N
25)	At least one Teleservice	Y
26)	CC Protocol for at least one BC	Y
27)	Only cct. switched basic Serv. supported by the Mobile is Emergency Call	N
28)	Fax Error Correction Mode	N
29)	At least one Supplementary Service	Y
30)	Non Call Related Supplementary Service	N
31)	At least one Short Message Service	Y
32)	(SMS) Reply Procedure	N
33)	Replace SMS	Y
34)	Display of Received SMS	Y
35)	SMS Status Report Capabilities	Y
36)	Storing of Short Messages in the SIM	Y
37)	Storing of Short Messages in the ME	N
38)	Detach on Power Down	Y



39)	Detach on SIM Remove	Y
40)	SIM removable without Power down	Y
41)	ID-1 SIM	N
42)	Plug In SIM	Y
43)	Disable PIN Feature	Y
44)	PIN2 Feature	Y
45)	Feature Requiring Entry of PIN2	Y
46)	Chars 0-9, *, #	Y
47)	A, B, C, D Chars	N
48)	Autom. Enter Automatic Sel. of PLMN Mode	N
49)	Alerting Indication to the User	Y
50)	Appl. Layer is always Running	Y
51)	Immediate Connect	N
52)	In-Call Modification	Y
53)	Follow-On Request Procedure	Y
54)	Refusal of Call	Y
55)	RF amplification	N
56)	No. of B-party no. for Autocalling is greater than no. of Entries in Blacklist	N
57)	Handset MS supporting Speech	Y
58)	MT2 Configuration	Y
59)	MT2 Conf. or any other Possibility to send Data over Um Interface	Y
60)	Permanent Antenna Connector	Y
61)	Pseudo HO synchronization capability	Y
62)	5V only SIM/ME interface	N
63)	3V only SIM/ME interface	Y
64)	5V/3V SIM/ME interface	N
65)	3V/5V SIM/ME interface	N
66)	Enhanced full rate speech supported	Y
67)	Controlled Early Classmark Sending	Y
68)	Round Trip Delay for loop C 0..25 bursts	1

Receiver Intermediate Frequencies

	DCS 1800	GSM 900
Flo - oscillator frequency applied to first receiver mixer	1	0
{ 0 = Flo variable and > FR }		
{ 1 = Flo variable and < FR }		
number of intermediate frequencies	1	1
1. IF	440 MHz	440 MHz
2. IF	0 MHz	0 MHz
3. IF	0 MHz	0 MHz
4. IF	0 MHz	0 MHz