



InterLab®

Final Report on

EM820W

HW: MD1EM820WM

SW: 11.810.09.04.00 (SVN: 04)

Report Reference: 4-RC009a-2011

Date: March 21, 2011

Test Laboratory:

Beijing 7 layers Huarui Communications Technology Co., Ltd.
No.11 Yue Tan Nan Street, Xi Cheng District
Beijing 100045
China P.R.



Note:

The following test results relate only to the devices specified in this document. This report shall not be reproduced in parts without the written approval of the test laboratory.

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Chairman of the Board:
Mr. Yang Zemin
Vice Chairman of Board:
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1 Administrative Data

1.1 Project Data

Project Responsible: Li Yunzhuo
Date of Test Report: 2011/03/21
Date of first test: 2011/03/01
Date of last test: 2011/03/17

1.2 Applicant Data

Company Name: Huawei Technologies Co.,Ltd.
Street: Huawei Base, Bantian Longgang, Shenzhen, PRC
City: 518057 Shenzhen
Country: China
Contact Person: Mrs. kangying
Phone: 0755-36834347
Fax: 0755-36839014
E-Mail: kangying@huawei.com

1.3 Test Laboratory Data

The following list shows all places and laboratories involved for test result generation:

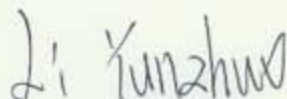
7 layers US

Company Name : 7 layers, Inc.
Street : 15 Musick
City : Irvine, CA 92618
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Laboratory Details

Lab ID	Identification	Responsible	Accreditation Info
Lab 1	TP059 - Spirent ULTS UMTS Location Test System	Mr. Ricardo Bernas Mrs. Shubha Gopalakrishna	DAR-Registration No. DGA-PL-192/99-A1 - (In relation to DGA-PL-192/99-02)

1.4 Signature of the Testing Responsible



Li Yunzhuo
responsible for tests performed in: Lab 1

1.5 Signature of the Accreditation Responsible


Accreditation Scope Responsible Person
responsible for Lab 1

2 Test Object Data

2.1 General OUT Description

The following section lists all OUTs (Object's Under Test) involved during testing.

OUT: EM820W

Type / Model / Family: EM820W
HW: MD1EM820WM
SW: 11.810.09.04.00 (SVN: 04)

Manufacturer:

Company Name: Huawei Technologies Co., Ltd.
Street: Huawei Base, Bantian Longgang, Shenzhen, PRC
City: 518057 Shenzhen
Country: China
Country Code: 86
Contact Person: Mrs. kangying
Phone: 0755-36834347
Fax: 0755-36839014
E-Mail: kangying@huawei.com

Parameter List:

Parameter name	Value
Antenna Connector	True
Auto ReAttach	false
Early_classmark_sending	true
GPRS Compression	false
Length Indicator	false
Max number of SMS Characters	160
Maximum number of CP-DATA retransmissions	1
MMI GPRS detach	false
Number of MS initiated PDP contexts	1
Number of Network initiated PDP contexts	1
parameter_20_2_a	2.0
parameter_20_2_b	1.5
SMS over EGPRS	false
Timer TC1M	20

2.2 Detailed Description of OUT Samples

Sample : a01

<i>OUT Identifier</i>	EM820W		
<i>Sample Description</i>	test sample #01		
<i>HW Status</i>	MD1EM820WM		
<i>SW Status</i>	11.810.09.04.00		
<i>Low Voltage</i>	3.0 V	<i>Low Temp.</i>	-10 °C
<i>High Voltage</i>	3.6 V	<i>High Temp.</i>	55 °C
<i>Nominal Voltage</i>	3.3 V	<i>Normal Temp.</i>	25 °C

Parameter for Scope GERAN_v1

IMEI	354283040001004
IMEISV	3542830400010004
IMSI	001010123456063
IMSI 2	001011012345063
Intermediate Frequency 1	0
Intermediate Frequency 2	0
Intermediate Frequency 3	0
Intermediate Frequency 4	0
Intermediate Frequency 5	0
Ki	5E4AB35891375D2AEE812E67C309A629
Local Oscillator Frequency	0
Number of Intermediate Frequencies	1
Sample location	Beijing
Sample responsibility	Li Yunzhuo

Parameter for Scope UTRA_v2

IMEI	354283040001004
px_IMEI_Def	no default
px_IMEISV_Def	no default
SAMPLE LOCATION	Beijing
SAMPLE RESPONSIBILITY	Li Yunzhuo

2.3 OUT Features

Features for OUT: EM820W

Designation	Description	Allowed Values	Supported Value(s)
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Features for scope: AE_v1

SUPL_B.3/1	IPV4 in SLP session ID supported		
SUPL_B.3/3	FQDN in SLP session ID supported		
SUPL_B.3/7	AGPS SET assisted supported		
SUPL_B.3/8	AGPS SET based supported		
SUPL_B.3/1	Autonomous GPS in Network initiated call flows supported		
0			
SUPL_B.3/1	ECID supported		
2			
SUPL_B.3/1	Notification supported		
5			
SUPL_B.3/1	QoP in SUPL INIT supported		
6			
SUPL_B.3/1	QoP in SUPL START supported		
7			
SUPL_B.3/1	SET supports 3GPP standards		
8			
SUPL_B.3/2	WAP Push for delivery of SUPL INIT supported		
2			
SUPL_B.3/2	Proxy mode supported		
3			
SUPL_B.3/2	H-SLP address stored in the SET supported		
5			
SUPL_B.3/2	Reception of Velocity supported		
7			
SUPL_B.3/2	Altitude (3D positioning) supported		
8			
SUPL_B.3/2	AGPS SET assisted in Network initiated call flows supported		
9			
SUPL_B.3/3	AGPS SET based in Network initiated call flows supported		
0			
SUPL_B.3/3	ECID in Network initiated call flows supported		
1			

Additional information for scope: AE_v1

A
CatA
CatB
CatE
SUPL

Features for scope: GERAN_v1

34123_A.1	FDD: Frequency band: 1 920-1 980, 2 110-2 170 MHz		
5/2			
34123_A.1	FDD: Frequency band: 1 850-1 910, 1 930-1 990 MHz		
5/3			
34123_A.1	FDD: Frequency band: 824 - 849, 869-894 MHz		
5/16			
34123_A.1	Frequency band: 880-915, 925-960 MHz		
5/19			
A	Feature "A" is used for "applicability" that is referenced in 51.010-2 for many test cases. You will find the description in Annex B of this specification.		
A.1/1	Standard GSM Band (P-GSM)		
A.1/2	Extended GSM Band (E-GSM), (including standard Band)		
A.1/4	DCS 1800 band		

Features for OUT: EM820W

<i>Designation</i>	<i>Description</i>	<i>Allowed Values</i>	<i>Supported Value(s)</i>
A.1/6	Multiple-band, simultaneously		
A.1/7	Small Mobile Station		
A.1/10	GSM Power Class 4		
A.1/12	DCS Power Class 1		
A.1/18	PCS 1900 band		
A.1/19	PCS Power Class 1		
A.1/51	GPRS Multislot operation		
A.1/52	EGPRS capable of 8PSK in Uplink, of all Multislot Classes		
A.1/55	GSM 850 band		
A.1/56	Support of UTRAN Radio Access Technology		
A.1/57	Support of GPRS Multislot class on the uplink		
A.1/63	Support of UTRAN FDD		
A.1/65	Support of Conventional GPS		
A.1/66	EGPRS Multislot operation		
A.1/78	GPRS Multislot Class12		
A.1/107	EGPRS Multislot Class12		
A.1/127	GSM 850 Power Class 4		
A.1/130	8-PSK GSM Power Class E2		
A.1/133	8-PSK DCS Power Class E2		
A.1/136	8-PSK PCS Power Class E2		
A.1/139	8-PSK GSM 850 Power Class E2		
A.1/141	GSM850 and GSM1800 Band Interworking		
A.1/142	GSM900 and GSM1900 Band Interworking		
A.1/143	GSM850 and GSM900 Band Interworking		
A.1/146	DTM/EGPRS Multislot Class 9		
A.1/188	EGPRS Multislot Operation in Uplink Direction		
A.1/200	Revision Level GSM Phase 1		
A.1/201	Revision Level GSM Phase 2		
A.1/202	Revision Level MS supporting R99 or later		
A.1/204	8-PSK RF Power Capability 1		
A.1/205	8-PSK RF Power Capability 2		
A.1/259	DTM EGPRS Multislot Class10		
A.1b/1	Release of GPRS supported	R97, R98, R99, Release 4, Release 5, Release 6, Release 7, Release 8, Release 9	Release 6
A.1b/3	Release of EGPRS supported	R99, Release 4, Release 5, Release 6, Release 7, Release 8, Release 9	Release 6
A.1b/4	Release of RRLP supported.	R98, R99, Release 4, Release 5, Release 6, Release 7, Release 8, Release 9	Release 5
A.1b/5	Release of Higher Layer supported.	R97, R98, R99, Release 4, Release 5, Release 6, Release 7, Release 8, Release 9	Release 6
A.2/4	Country / PLMN Selection.		
A.2/6	IMEI.		
A.2/7	Short Message Overflow Indication.		
A.2/8	DTE /DCE Interface.		
A.2/14	Subscription Identity Management.		
A.2/15	On / Off switch.		
A.2/17	Support of Encryption A5/1.		
A.2/19	Short Message Service Cell Broadcast DRX.		

Features for OUT: EM820W

<i>Designation</i>	<i>Description</i>	<i>Allowed Values</i>	<i>Supported Value(s)</i>
A.2/35	ME-SIM lock		
A.2/41	Support of GPRS		
A.2/42	Support of EGPRS		
A.2/43	Support of GPRS Encryption		
A.2/45	Short message		
A.2/48	GPRS operation mode class B		
A.2/49	GPRS operation mode class C		
A.2/50	MS supporting SMS over GPRS		
A.2/54	GPRS test mode A		
A.2/55	GPRS test mode B		
A.2/56	EGPRS test mode		
A.2/58	Non-zero value of Non_DRX_Timer		
A.2/59	Support of MS-Based A-GPS L1 C/A		
A.2/60	Support of MS-Assisted A-GPS L1 C/A		
A.2/65	Support of EGPRS Packet Access enhancement		
A.2/67	Support of MT SMS over GPRS		
A.2/70	Support of Extended dynamic allocation		
A.2/72	Support of GERAN FEATURE PACKAGE 1		
A.2/73	Support of Encryption A5/3		
A.2/75	Support of Encryption GEA2		
A.2/76	Support of Encryption GEA3		
A.2/81	Support of Enhanced DTM CS		
A.2/82	Support of PS Handover		
A.3/3	Short Message MT/PP.		
A.3/4	Short Message MO/PP.		
A.3/5	SMS Cell Broadcast.		
A.3/10	SMS description		
A.4/6	Data circuit duplex async. 9 600 bit/s.		
A.4/22	GPRS		
A.6/1	Bearer Service 21(20) .. 26, unrestricted digital information transfer capability.		
A.6/2	Bearer Service 21(20) .. 26, 3.1 kHz audio ex-PLMN information transfer capability.		
A.7/1	Signalling Access Protocol (SAP).	I.440, X.28nond	I.440
A.7/2	Connection Element (CE).	NT, bothNT, T, bothT	NT
A.7/3	User Info Layer 2 Protocol (UIL2P).	ISO6429, COPnoFICT, NAV	ISO6429, COPnoFICT, NAV
A.7/4	Number of Data Bits(NDB).	7 bits, 8 bits	7 bits, 8 bits
A.7/5	Parity Information (NPB).	odd, even, 0, 1, none	none
A.7/6	Number of Stop Bits (NSB).	1 bit, 2 bits	2 bits, 1 bit
A.7/7	Radio Channel Requirement (RCR).	dualHR, FR, dualFR	FR
A.7/8	Intermediate Rate (IR).	8 kbps, 16 kbps	16 kbps
A.7/9	User Rate (UR).	0.3, 1.2, 2.4, 4.8, 9.6, 1.2/0.075	9.6
A.7/10	Fixed Network User Rate (FNUR)	9.6, 14.4, 19.2, 28.8, 38.4, 48, 56, NAV	14.4, 9.6
A.7/10a	all allowed combinations according to GSM 07.01 B.1.2.1 (3GPP TS 27.001) implemented (if not, provide detailed description).		
A.7/11	Wanted Air Interface User Rate (WAIUR)	9.6, 14.4, 19.2, 28.8, 38.4, 43.2, 57.6, NAV	14.4, 9.6
A.7/12	User Initiated Modification Indication (UIMI)	not req., upto1, upto2, upto3, upto4, NAV	NAV
A.7/13	Maximum number of Traffic Channels (MaxNumTCH)	1, 2, 3, 4, NAV	1
A.8/1	Signalling Access Protocol (SAP).	I.440, X.28nond	I.440

Features for OUT: EM820W

<i>Designation</i>	<i>Description</i>	<i>Allowed Values</i>	<i>Supported Value(s)</i>
A.8/2	Connection Element (CE).	NT, bothNT, T, bothT	NT
A.8/3	User Info Layer 2 Protocol (UIL2P).	ISO6429, COPnoFICt, NAV	NAV, ISO6429, COPnoFICt
A.8/4	Number of Data Bits(NDB).	7 bits, 8 bits	7 bits, 8 bits
A.8/5	Parity Information (NPB).	odd, even, 0, 1, none	none
A.8/6	Number of Stop Bits (NSB).	1 bit, 2 bits	2 bits, 1 bit
A.8/7	Radio Channel Requirement (RCR).	dualHR, FR, dualFR	FR
A.8/8	Intermediate Rate (IR).	8 kbps, 16 kbps	16 kbps
A.8/9	User Rate (UR).	0.3, 1.2, 2.4, 4.8, 9.6, 1.2/0.075	9.6
A.8/10	Modem Type (MT).	V.21, V.22, V.22bis, V.26ter, V.32, V.23, auto	auto, V.32
A.8/11	Fixed Network User Rate (FNUR)	9.6, 14.4, 19.2, 28.8, NAV	9.6, 14.4
A.8/11a	all allowed combinations according to GSM 07.01 B.1.2.2 (3GPP TS 27.001) implemented (if not, provide detailed description).		
A.8/12	Wanted Air Interface User Rate (WAIUR)	9.6, 14.4, 19.2, 28.8, 38.4, 43.2	14.4, 9.6
A.8/13	Acceptable channel codings (ACC)	4.8, 9.6, 14.4, NAV	14.4, 9.6
A.8/14	User Initiated Modification Indication (UIMI)	not req., upto1, upto2, upto3, upto4, NAV	NAV
A.8/15	Maximum number of Traffic Channels (MaxNumTCH)	1, 2, 3, 4, NAV	1
A.25.1/2	Loop C delay Full rate (round trip delay, in number of TDMA frames)	0 ... inf	
A.25.1/7	Averaging time Tav This time is the time between the first and the last measurement sample taken on one carrier during one averaging period when measuring received signal strength	0 ... inf	
A.25.1/10	MS LCS Notification timeout timer (units: seconds)	1 ... inf	
A.25/4	at least one data service.		
A.25/5	at least one full rate data service.		
A.25/7	at least one non transparent data service.		
A.25/10	at least one asynchronous data service.		
A.25/11	at least one asynchronous non transparent data service.		
A.25/16	9.6 k full rate data mode.		
A.25/18	at least one bearer capability.		
A.25/19	at least one MT circuit switched basic service.		
A.25/20	at least one MO circuit switched basic service.		
A.25/22	at least one service on traffic channel supported		
A.25/24	only full rate radio channel type (no relation to supported speech codecs)		
A.25/25	at least one teleservice.		
A.25/26	CC protocol for at least one BC.		
A.25/31	at least one short message service.		
A.25/32	(SMS) reply procedure.		
A.25/34	display of received SMS.		
A.25/35	SMS status report capabilities.		
A.25/36	Storing of short messages in the SIM.		
A.25/38	detach on power down.		
A.25/42	Plug-In SIM.		
A.25/43	Disable PIN feature.		

Features for OUT: EM820W

<i>Designation</i>	<i>Description</i>	<i>Allowed Values</i>	<i>Supported Value(s)</i>
A.25/48	automatically enter automatic selection of PLMN mode.		
A.25/53	follow-on request procedure.		
A.25/58	MT2 Configuration.		
A.25/59	MT2 Configuration or any other possibility to send data over Um interface.		
A.25/60	Permanent Antenna Connector.		
A.25/61	Pseudo-synchronized handover supported.		
A.25/66a	RLP supports non default parameters		
A.25/72	14.4 k data mode		
A.25/83	Support of one PDP context activation		
A.25/84	Support of more than one PDP context activation		
A.25/85	Support of more than one PDP context activation simultaneously on the same SAPI		
A.25/86	Support of GPRS data compression		
A.25/87	Support of GPRS header compression		
A.25/89	Support for user settings of minimum QoS		
A.25/90	Automatic GPRS attach procedure at switch-on/power-on		
A.25/91	MMI controlled attach/detach procedures for non-GPRS services		
A.25/92	Automatic attach procedure when MS identity cannot derived by the network		
A.25/93	Automatic MM IMSI attach procedure at switch-on / power-on		
A.25/96	1,8V/3V SIM/ME interface.		
A.25/97	Multiple SM MO/PP on same RR link		
A.25/98	Support of stored list cell selection		
A.25/99	at least one service not support immediate connection		
A.25/109	Support of Multiple SMS		
A.25/110	Cell Reselection after T3184 Expiry		
A.25/111	GPRS attach attempted automatically due to outstanding request		
A.25/116	Support of MO SMS Concatenation		
A.25/117	Support of MT SMS Concatenation		
A.25/122	Support of GPRS header compression algorithm type RFC 1144		
A.25/123	Support of GPRS header compression algorithm type RFC 2507		
A.25/128	The way to trigger transferring of new user data in a different PDP context while an uplink transfer is in progress		
A.25/132	MS with improved receiver performance		
A.25/139	Support of Repeated SACCH		
A.25/140	Support for a method for resetting stored A-GPS assistance data		
A.25/149	Support of Repeated FACCH		
A.25/150	Support of HATS		
A.25/151	Controlled Early Classmark Sending		
A.25/155	Classmark 3 options available		
A.25/156	LCS VA Capability		
A.25/157	UCS2 treatment		
A.27/2	see 51.010-2, UL/DL: 14.4 kbps		
A.27/3	see 51.010-2; UL/DL: 28.8 kbps		
A.27/4	see 51.010-2; UL/DL: 57.6 kbps		
E.1/1	Profile Download		

Features for OUT: EM820W

<i>Designation</i>	<i>Description</i>	<i>Allowed Values</i>	<i>Supported Value(s)</i>
E.1/2	SMS-PP data download		
E.1/5	9EXX response code for SIM data download error		
E.1/9	Command result		
E.1/12	MO short message control by SIM		
E.1/20	MORE TIME		
E.1/22	POLL INTERVAL		
E.1/23	POLLING OFF		
E.1/24	REFRESH		
E.1/25	SELECT ITEM		
E.1/26	SEND SHORT MESSAGE		
E.1/27	SEND SS		
E.1/31	PROVIDE LOCAL INFORMATION (LOCI & IMEI)		
E.1/57	TIMER MANAGEMENT (start, stop)		
E.1/58	TIMER MANAGEMENT (get current value)		
E.1/59	PROVIDE LOCAL INFORMATION (date, time and time zone)		
E.1/67	PROVIDE LOCAL INFORMATION - BCCH		
E.1/68	PROVIDE LOCAL INFORMATION (language)		
E.1/69	PROVIDE LOCAL INFORMATION (Timing Advance)		
E.1/98	GPRS supported by ME		
E.1/129	TCP		
E.1/130	UDP		

Additional information for scope: GERAN_v1

CatA
 CatB
 CatE
 FDD1
 FDD2
 FDD5
 FDD8
 TH
 TL
 TN
 VH
 VL
 VN

Features for scope: UTRA_v2

31121_A.1/1	Support of CS
31121_A.1/3	Support of UTRAN access
31121_A.1/4	Support of GERAN access
31121_A.1/7	Support of Higher priority PLMN selector with Access Technology service (Implementation is optional in Rel-6 and onwards)
31121_A.1/10	Support of "Receive SMS" functionality
31124_A.1/4	Extended Text String
31124_A.1/16	Mobile supporting GPRS
31124_A.1/17	Mobile supporting UDP

Features for OUT: EM820W

<i>Designation</i>	<i>Description</i>	<i>Allowed Values</i>	<i>Supported Value(s)</i>
31124_A.1/ 18	Mobile supporting TCP		
31124_A.1/ 20	Mobile decision to respond with "No response from user" in finite time		
31124_A.1/ 23	Immediate response		
31124_A.1/ 24	Variable Timeout		
31124_A.1/ 44	Mobile supporting Barred Dialling Numbers		
31124_A.1/ 45	Mobile supporting Fixed dialling numbers		
31124_A.1/ 63	Terminal supports Long ForwardToNumber		
31124_A.1/ 64	Mobile supporting GERAN		
31124_A.1/ 65	Support of global phonebook		
31124_A.1/ 66	HSDPA Support		
31124_A.1/ 134	Terminal supports UTRAN		
31124_E.1/ 1	Profile Download		
31124_E.1/ 2	SMS-PP data download		
31124_E.1/ 3	Cell Broadcast data download		
31124_E.1/ 5	Bit =1 if SMS-PP data Download supported		
31124_E.1/ 6	Timer expiration		
31124_E.1/ 7	Bit=1 if Call control supported		
31124_E.1/ 8	Bit=1 if Call control supported		
31124_E.1/ 9	Command result		
31124_E.1/ 10	Call Control by USIM		
31124_E.1/ 11	Bit=1 if Call control supported		
31124_E.1/ 12	MO short message control by USIM		
31124_E.1/ 13	Bit=1 if Call control supported		
31124_E.1/ 16	Bit=1 if Display Text supported		
31124_E.1/ 17	DISPLAY TEXT		
31124_E.1/ 18	GET INKEY		
31124_E.1/ 19	GET INPUT		
31124_E.1/ 20	MORE TIME		
31124_E.1/ 21	PLAY TONE		
31124_E.1/ 22	POLL INTERVAL		
31124_E.1/ 23	POLLING OFF		

Features for OUT: EM820W

<i>Designation</i>	<i>Description</i>	<i>Allowed Values</i>	<i>Supported Value(s)</i>
31124_E.1/ 24	REFRESH		
31124_E.1/ 25	SELECT ITEM		
31124_E.1/ 26	SEND SHORT MESSAGE		
31124_E.1/ 27	SEND SS		
31124_E.1/ 28	SEND USSD		
31124_E.1/ 29	SET UP CALL		
31124_E.1/ 30	SET UP MENU		
31124_E.1/ 31	PROVIDE LOCAL INFORMATION (LOCI & IMEI)		
31124_E.1/ 32	PROVIDE LOCAL INFORMATION (NMR)		
31124_E.1/ 33	SET UP EVENT LIST		
31124_E.1/ 34	Event: MT call		
31124_E.1/ 35	Event: Call connected		
31124_E.1/ 36	Event: Call disconnected		
31124_E.1/ 37	Event: Location status		
31124_E.1/ 38	Event: User activity		
31124_E.1/ 39	Event: Idle screen available		
31124_E.1/ 41	Event: Language selection		
31124_E.1/ 45	Event: Access Technology Change		
31124_E.1/ 48	Event: Network Search Mode Change		
31124_E.1/ 57	TIMER MANAGEMENT (start, stop)		
31124_E.1/ 58	TIMER MANAGEMENT (get current value)		
31124_E.1/ 59	PROVIDE LOCAL INFORMATION (date, time and time zone)		
31124_E.1/ 60	Bit=1 if Get Inkey		
31124_E.1/ 61	SET UP IDLE MODE TEXT		
31124_E.1/ 63	Bit=1 if Set UpCall		
31124_E.1/ 64	Bit=1 if Call Control		
31124_E.1/ 65	Bit=1 if Display Text		
31124_E.1/ 66	SEND DTMF command		
31124_E.1/ 67	Bit = 1 if Provide Local Information (NMR) supported		
31124_E.1/ 68	PROVIDE LOCAL INFORMATION (language)		
31124_E.1/ 69	PROVIDE LOCAL INFORMATION (Timing Advance)		

Features for OUT: EM820W

<i>Designation</i>	<i>Description</i>	<i>Allowed Values</i>	<i>Supported Value(s)</i>
31124_E.1/ 70	LANGUAGE NOTIFICATION		
31124_E.1/ 72	PROVIDE LOCAL INFORMATION (Access Technology)		
31124_E.1/ 136	HSDPA supported by ME		
31124_E.1/ 137	DISPLAY TEXT (Variable time out)		
31124_E.1/ 140	GET INKEY (Variable time out)		
31124_E.1/ 142	CALL CONTROL on GPRS		
31124_E.1/ 182	Reserved for 3GPP2: PROVIDE LOCAL INFORMATION (MEID)		
34121_A.1/ 1	FDD (DS)		
34121_A.1/ 4	GSM		
34121_A.1/ 5	GPRS		
34121_A.2/ 1	Circuit Switched		
34121_A.2/ 2	Packet Switched		
34121_A.2/ 3	UE supports UE operation mode A: PS and CS simultaneously		
34121_A.4/ 1	Call Control		
34121_A.4/ 2	Mobility Management		
34121_A.4/ 3	Session Management		
34121_A.4/ 4	GPRS Mobility Management		
34121_A.4/ 5	Radio Resource Control		
34121_A.4/ 7	Broadcast/Multicast Control		
34121_A.4/ 8	Radio Link Control		
34121_A.4/ 9	Medium Access Control		
34121_A.4/ 10	Physical Layer		
34121_A.5/ 1	UE test loop		
34121_A.5/ 2	Support of UE test loop mode 1 with UL RLC SDU size bigger than 12160 bits (1520 octets)		
34121_A.6/ 1	Chip rate 3,84 Mcps		
34121_A.6/ 2	Frequency band: 1 920-1 980, 2 110-2 170 MHz		
34121_A.6/ 3	Frequency band: 1 850-1 910, 1 930-1 990 MHz		
34121_A.6/ 5	TX-RX Freq. Sep: 190 MHz		
34121_A.6/ 6	TX-RX Freq. Sep: 80 MHz		
34121_A.6/ 8	Carrier raster: 200 kHz		
34121_A.6/ 11	UE Power Class 3 for Operation Band I (+24 dBm)		

Features for OUT: EM820W

<i>Designation</i>	<i>Description</i>	<i>Allowed Values</i>	<i>Supported Value(s)</i>
34121_A.6/13	Output RF spectrum emissions		
34121_A.6/16	Frequency band: 824 - 849, 869-894 MHz		
34121_A.6/19	Frequency band: 880-915, 925-960 MHz		
34121_A.6/a/1	UE Power Class 3 for Operation Band II (+24 dBm)		
34121_A.6/a/10	UE Power Class 3 for Operation Band V (+24 dBm)		
34121_A.6/a/19	UE Power Class 3 for Operation Band VIII (+24 dBm)		
34121_A.7/1	Support of turbo decoding		
34121_A.7/2	Support of turbo encoding		
34121_A.7/10	Support of uplink and downlink compressed mode		
34121_A.7/14	Support of HS-PDSCH		
34121_A.7/15	Support of E-DPDCH		
34121_A.8/6	Category 6		
34121_A.8/8	Category 8		
34121_A.8/10	Category 10		
34121_A.8/12	Category 12		
34121_A.8/14	Category 14		
34121_A.9/5	Category 5		
34121_A.9/6	Category 6		
34121_A.10/1	Up-link reference measurement channel 12.2 kbps (FDD)		
34121_A.10/2	Down-link reference measurement channel 12.2 kbps (FDD)		
34121_A.10/3	Up-link reference measurement channel 64 kbps (FDD)		
34121_A.10/4	Down-link reference measurement channel 64 kbps (FDD)		
34121_A.10/5	Up-link reference measurement channel 144 kbps (FDD)		
34121_A.10/6	Down-link reference measurement channel 144 kbps (FDD)		
34121_A.10/7	Up-link reference measurement channel 384 kbps (FDD)		
34121_A.10/8	Down-link reference measurement channel 384 kbps (FDD)		
34121_A.10/10	Down-link reference measurement channel 2 64 kbps (FDD)		
34121_A.11/1	Enhanced performance requirements type 1		
34121_A.11/2	Enhanced performance requirements type 2		
34121_A.11/3	Enhanced performance requirements type 3		
34121_A.11/4	Enhanced performance requirements type 1 for E-DCH		

Features for OUT: EM820W

<i>Designation</i>	<i>Description</i>	<i>Allowed Values</i>	<i>Supported Value(s)</i>
34121_A.1 1/6	Enhanced performance requirements Type 3i		
34171_G.2 /1	FDD (DS)		
34171_G.2 /4	GSM		
34171_G.2 /5	GPRS		
34171_G.2 /6	MultirAT_Capability		
34171_G.3 /1	Support of turbo decoding		
34171_G.3 /2	Support of turbo encoding		
34171_G.3 /10	Support of uplink and downlink compressed mode		
34171_G.3 /12	Support of UE based Network Assisted GPS		
34171_G.3 /13	Support of UE assisted Network Assisted GPS		
34171_G.3 /14	Support of HS-PDSCH		
34171_G.3 /15	Support of E-DPDCH		
A.1/1	FDD (DS); this feature is mandatory for all UTRA FDD UE		
A.1/1_GER AN	Standard GSM Band (P-GSM)		
A.1/2_GER AN	Extended GSM Band (E-GSM), (including standard Band)		
A.1/4	GSM		
A.1/4_GER AN	DCS 1800 band		
A.1/10_GE RAN	GSM Power Class 4		
A.1/12_GE RAN	DCS Power Class 1		
A.1/18_GE RAN	PCS 1900 band		
A.1/19_GE RAN	PCS Power Class 1		
A.1/55_GE RAN	GSM 850 band		
A.1/65_GE RAN	Support of Conventional GPS		
A.1/127_G ERAN	GSM 850 Power Class 4		
A.1/146_G ERAN	DTM/EGPRS Multislot Class 9		
A.2/3	Short Message Service (SMS) MT over CS		
A.2/4	Short Message Service (SMS) MO over CS		
A.2/5	Short Message Service (SMS) MT over PS		
A.2/6	Short Message Service (SMS) MO over PS		
A.2/7	Cell Broadcast Service (CBS)		
A.2/17_GE RAN	Support of Encryption A5/1.		
A.2/41_GE RAN	Support of GPRS		
A.2/48_GE RAN	GPRS operation mode class B		
A.2/49_GE RAN	GPRS operation mode class C		

Features for OUT: EM820W

<i>Designation</i>	<i>Description</i>	<i>Allowed Values</i>	<i>Supported Value(s)</i>
A.2/59_GE RAN	Support of MS-Based GPS		
A.2/60_GE RAN	Support of MS-Assisted GPS		
A.3/1	Circuit Switched		
A.3/2	Packet Switched		
A.3/3	UE supports UE operation mode A: PS and CS simultaneously		
A.3/3_GER AN	Short Message MT/PP.		
A.4/2	3,1 kHz Audio 14 400 bit/s		
A.4/4	3,1 kHz Audio 28 800 bit/s		
A.4/5	3,1 kHz Audio Modem AutoBauding1		
A.4/7	V.110 UDI 14 400 bit/s		
A.4/9	V.110 UDI 28 800 bit/s		
A.4/10	V.110 UDI 38 400 bit/s		
A.4/12	V.120 14 400 bit/s		
A.4/14	V.120 28 800 bit/s		
A.4/17	V.120 56 000 bit/s		
A.5/23	Bit Transparent mode 64 000 bit/s		
A.6/1	Conversational		
A.6/2	Streaming		
A.6/3	Interactive		
A.6/4	Background		
A.7/31	Support of molr-Type parameter □psAssistanceData		
A.8/2	Location Service (LCS)		
A.8a/4	Standalone location method is supporting by UE		
A.11/1	Call Control		
A.11/2	Mobility Management		
A.11/3	Session Management		
A.11/4	GPRS Mobility Management		
A.11/5	Radio Resource Control		
A.11/7	Broadcast/Multicast Control		
A.11/8	Radio Link Control		
A.11/9	Medium Access Control		
A.11/10	Physical Layer		
A.12/1	Up-link reference measurement channel 12.2 kbps (FDD)		
A.12/2	Down-link reference measurement channel 12.2 kbps (FDD)		
A.13/1	UE test loop		
A.13/2	Support of UE test loop mode 1 with UL RLC SDU size bigger than 12160 bits (1520 octets)		
A.14/1	Electrical Man Machine Interface (EMMI)		
A.14/2	UICC/ME test interface		
A.15/1	FDD: Chip rate 3,84 Mcps		
A.15/2	FDD: Frequency band: 1 920-1 980, 2 110-2 170 MHz		
A.15/3	FDD: Frequency band: 1 850-1 910, 1 930-1 990 MHz		
A.15/5	FDD: TX-RX Freq. Sep: 190 MHz		
A.15/6	FDD: TX-RX Freq. Sep: 80 MHz		
A.15/8	FDD: Carrier raster: 200 kHz		
A.15/11	FDD: UE Power Class 3 (+24 dBm)		
A.15/13	FDD: Output RF spectrum emissions		

Features for OUT: EM820W

<i>Designation</i>	<i>Description</i>	<i>Allowed Values</i>	<i>Supported Value(s)</i>
A.15/16	FDD: Frequency band: 824 - 849, 869-894 MHz		
A.15/19	Frequency band: 880-915, 925-960 MHz		
A.15/21	Multiple FDD bands simultaneously		
A.18a.1/6	Category 6		
A.18a.1/8	Category 8		
A.18a.1/10	Category 10		
A.18a.1/12	Category 12		
A.18a.1a/14	Category 14		
A.18a.2/5	Category 5		
A.18a.2/6	Category 6		
A.18a/1	Support of turbo decoding		
A.18a/2	Support of turbo encoding		
A.18a/8	Need of inter-frequency uplink compressed mode		
A.18a/8a	Need of interRAT uplink compressed mode		
A.18a/9a	Need of interRAT downlink compressed mode		
A.18a/12	Support of UE based Network Assisted GPS		
A.18a/13	Support of UE assisted Network Assisted GPS		
A.18a/14	Support of HS-PDSCH		
A.18a/17	Capability with simultaneous HS-DSCH configuration	kbps32, kbps64, kbps128, kbps384	kbps64
A.18a/18	Support of E-DPDCH		
A.18a/24	Support for MAC-e-hs		
A.18c/2	Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH		
A.18c/3	Stand-alone UL:13.6 DL:13.6 kbps SRBs for DCCH		
A.18c/12	Conversational / unknown / UL:28.8 DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH		
A.18c/13.1	Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI		
A.18c/13.2	Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 40 ms TTI		
A.18c/14.1	Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI		
A.18c/14.2	Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 40 ms TTI		
A.18c/15	Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH		
A.18c/16	Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH		
A.18c/17	Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH		
A.18c/18	Streaming / unknown / UL:0 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH		
A.18c/19	Streaming / unknown / UL:64 DL:0 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH		
A.18c/23.1	Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (TC, 10 ms TTI)		
A.18c/23.2	Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (TC, 20 ms TTI)		

Features for OUT: EM820W

<i>Designation</i>	<i>Description</i>	<i>Allowed Values</i>	<i>Supported Value(s)</i>
A.18c/23.3	Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (CC, 10 ms TTI)		
A.18c/23.4	Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (CC, 20 ms TTI)		
A.18c/23a.1	Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (CC)		
A.18c/23a.2	Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (TC)		
A.18c/23b	Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.		
A.18c/23c	Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.		
A.18c/23d	Interactive or background / UL:32 DL:32 kbps / PS RAB (20 ms TTI) + UL:3.4 DL:3.4 kbps SRBs for DCCH.		
A.18c/24.1	Interactive or background / UL:64 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / TC		
A.18c/24.2	Interactive or background / UL:64 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / CC		
A.18c/25.1	Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH/ (TC, 10 ms TTI)		
A.18c/25.2	Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (TC, 20 ms TTI)		
A.18c/25.3	Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (CC, 10 ms TTI)		
A.18c/25.4	Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / (CC, 20 ms TTI)		
A.18c/26	Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH		
A.18c/27	Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH		
A.18c/28	Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH		
A.18c/29	Interactive or background / UL:64 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH		
A.18c/30	Interactive or background / UL:144 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH		
A.18c/31.1	Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH /10 ms TTI		
A.18c/31.2	Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH /20 ms TTI		
A.18c/32.1	Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH / 10 ms TTI		
A.18c/33.1	Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI		
A.18c/34.1	Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI		

Features for OUT: EM820W

<i>Designation</i>	<i>Description</i>	<i>Allowed Values</i>	<i>Supported Value(s)</i>
A.18c/51.1	Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 20 ms TTI + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH		
A.18c/51.2	Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 40 ms TTI + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH		
A.18c/51a	Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or Background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.		
A.18c/51b	Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or Background / UL:16 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.		
A.18c/52.1	Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 20 ms TTI + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH		
A.18c/52.2	Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 40 ms TTI + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH		
A.18c/53.1	Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 20 ms TTI + Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH		
A.18c/53.2	Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 40 ms TTI + Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH		
A.18c/56	Interactive or background / UL:8 DL:8 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH		
A.18c/57	Interactive or background / UL:64 DL:64 kbps / PS RAB + interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH		
A.18c/58	Streaming / unknown / UL:16 DL:64 kbps / PS RAB + interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH		
A.18c/58a	Streaming / unknown / UL:16 DL:128 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.		
A.18e/1	Stand-alone signalling RB for PCCH		
A.18e/2	Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH		
A.18e/3	Interactive/Background 32 kbps RAB + SRBs for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH		
A.18e/4	RB for CTCH + SRB for CCCH +SRB for BCCH		
A.18e/5	Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH		
A.18f.1/1	Interactive or Background / UL:64 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH		
A.18f.1/1a	Interactive or Background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH		

Features for OUT: EM820W

<i>Designation</i>	<i>Description</i>	<i>Allowed Values</i>	<i>Supported Value(s)</i>
A.18f.1/2	Interactive or background / UL:384 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH		
A.18f.1/4	Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH		
A.18f.1/4a	Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH		
A.18f.1/5	Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH		
A.18f.1/5a	Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH		
A.18f.1/6	Streaming / unknown / UL:128 DL: [guaranteed 128, max bit rate depending on UE category] kbps / PS RAB + Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH		
A.18f.2/1	Streaming / unknown / UL:16 DL:64 kbps / PS RAB + Interactive or background / UL:16 DL:64 kbps / PS RAB + UL:13.6 DL:13.6 kbps SRBs for DCCH		
A.18f.3/1	Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL: 3.4 DL:3.4 kbps SRBs for DCCH on DCH		
A.18f.3/2	Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:[max bit rate depending on UE category and TTI] DL:3.4 kbps SRBs for DCCH on E-DCH and DL DCH		
A.18f.3/5	Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max b		
A.18f/1	Interactive/Background 32 kbps PS RAB + SRB for CCCH + SRB for DCCH		
A.18f/2	Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB + SRB for CCCH + SRB for DCCH		
A.18f/3	Interactive/Background / UL:32 DL: [max bit rate depending on UE category] with fixed RLC and MAC-e-hs / PS RAB + SRBs for DCCH on RACH and SRB with ..		
A.19a/4	Support of UM RB and AM RB		
A.19a/6	Maximum header compression context space	by16384, by32768, by65536, by131072	by16384
A.19b/1	Support of BMC		
A.19b/2	Support of BMC Scheduling		

Features for OUT: EM820W

<i>Designation</i>	<i>Description</i>	<i>Allowed Values</i>	<i>Supported Value(s)</i>
A.19c/1	Total RLC AM and MAC-hs buffer size	kb2, kb10, kb50, kb100, kb150, kb200, kb300, kb400, kb500, kb750, kb1000, kb2000	kb400
A.20/1	At least one bearer service		
A.20/3	Inter-system measurement for GSM		
A.20/4	At least one MO circuit switched basic service		
A.20/5	At lease one MT circuit switched basic service		
A.20/7	Activation of one or more PDP contexts simultaneously		
A.20/8	Sending of correct acknowledgement of memory full condition		
A.20/9	Status report capability		
A.20/11	Storing of received Class 1 short messages		
A.20/12	Storing of received Class 2 short messages in the SIM		
A.20/15	Sending of concatenated multiple short messages on the same RR connection when there is no call in progress		
A.20/16	Sending of concatenated multiple short messages on the same RR connection when there is a call in progress		
A.20/19	Poll_PU based polling mode of AM RLC		
A.20/20	Timer based polling mode of AM RLC		
A.20/21	Discard mode of AM RLC		
A.20/22	At least one MO circuit switched basic service		
A.20/23	At least one MO circuit switched basic service for which immediate connect is not used		
A.20/26	Secondary PDP context activation procedure		
A.20/32	Support of Follow On Proceed		
A.20/35	Support switch on/off		
A.20/38	Support of automatic PS attach procedure at switch on.		
A.20/39	User requested combined PS and non-PS detached without powering off		
A.20/41	Support for user setting of minimum QoS		
A.20/42	PS attach attempted automatically by outstanding request		
A.20/43	Support for making an outgoing PS call by AT commands		
A.20/45	Controlled Early Classmark Sending option implementation		
A.20/47	Void		
A.20/52	Void		
A.20/53	Void		
A.20/54	Void		
A.20/55	Void		
A.20/62	Access technology priority supported in HPLMNwACT field		
A.20/63	User requested PS detach without powering off		
A.20/65	AT command +CHUP supported		
A.20/66	UE which supports follow-on request procedure (PS)		
A.20/67	UE which supports Inter-RAT network assisted cell change from UTRAN		
A.20/68	RLP supported		
A.20/72	Support of DSAC		
A.20/75	Automatic attach procedure when UE identity cannot be derived by the network		

Features for OUT: EM820W

<i>Designation</i>	<i>Description</i>	<i>Allowed Values</i>	<i>Supported Value(s)</i>
A.20/76	GMM Information Supported		
A.20/77	Multiplexer protocol supported		
A.20/80	Support for being configured to discover the Home Agent address via DNS		
A.25/4_GE RAN	at least one data service.		
A.25/5_GE RAN	at least one full rate data service.		
A.25/38_G ERAN	detach on power down.		
A.25/61_G ERAN	Pseudo-synchronized handover supported.		
A.25/72_G ERAN	14.4 k data mode		
A.27/3_GE RAN	see 51.010-2; UL/DL: 28.8 kbps		
A.27/4_GE RAN	see 51.010-2; UL/DL: 57.6 kbps		
R	recommended - the test case is recommended		
Rel6 (VOID)	UE supporting Release 6		
UICC_Class _B	Voltage Class B (3V) of UICC - Terminal interface		
UICC_Class _C	Voltage Class C (1,8V) of UICC - Terminal interface		

Additional information for scope: UTRA_v2

CatA
 CatB
 CatE
 Rel7
 Service_Co
 nversationa
 I
 TH
 TL
 TN
 VH
 VL
 VN
 VX
 VY
 VZ

2.4 Setups used for Testing

For each setup a relation is given to determine if and which samples and auxiliary equipment is used. The left side list all OUT samples and the right side lists all auxiliary equipment for the given setup.

<i>Setup No.</i>	<i>List of OUT samples</i>	<i>List of auxiliary equipment</i>
<i>Sample No.</i>	<i>Sample Description</i>	<i>AE No.</i> <i>AE Description</i>

a01 (Test sample #01)

Sample: a01 test sample #01

3 Results

3.1 General

Documentation of tested devices:

Available at the test laboratory.

Interpretation of the test results:

The results of the inspection are described on the following pages, where 'Conformity' or 'Passed' means that the certification criteria were verified and that the tested device is conform to the applied standard.

In cases where 'Declaration' is printed, the required documents are available in the manufacturers product documentation.

In cases where 'not applicable' is printed, the test case requirements are not relevant to the specific equipment implementation.

3.2 List of the Applicable Body

(Body for Scope: AE_v1)

<i>Designation</i>	<i>Description</i>
NAPRD.03 v5.4 bis	Official PTCRB NAPRD.03 Version 5.4 plus new 5-day-rule PVG changes.

3.3 List of Test Specification

<i>Test Specification:</i>	OMA-ETS-SUPL
<i>Date / Version</i>	2009/07/21 Version: 1.0
<i>Title:</i>	Enabler Test Specification for Secure User Plane for Location (SUPL)
<i>Description:</i>	OMA-ETS-SUPL-V1_0-20090721-C

3.4 Summary

Test Case Identifier / Name Test (condition)	Cat	Result	Date of Test	Lab Ref.	Setup
SUPL-1.0-con-010 WAP Push and, or MT SMS support					
SUPL-1.0-con-010; Test 1	A	Passed	2011/03/01	Lab 1	a01
SUPL-1.0-con-013 Incorrect WAP Push message content					
SUPL-1.0-con-013	A	Passed	2011/03/01	Lab 1	a01
SUPL-1.0-con-023 Alternative H-SLP Addresses					
SUPL-1.0-con-023; Test 3	A	Passed	2011/03/01	Lab 1	a01
SUPL-1.0-con-023; Test 4	A	Passed	2011/03/01	Lab 1	a01
SUPL-1.0-con-023; Test 5	A	Passed	2011/03/01	Lab 1	a01
SUPL-1.0-con-030 Common Positioning method					
SUPL-1.0-con-030; Test 1	A	Passed	2011/03/01	Lab 1	a01
SUPL-1.0-con-030; Test 2	A	Passed	2011/03/01	Lab 1	a01
SUPL-1.0-con-030; Test 3	A	Passed	2011/03/01	Lab 1	a01
SUPL-1.0-con-030; Test 5	A	Passed	2011/03/02	Lab 1	a01
SUPL-1.0-con-031 Preferred or fallback Positioning method					
SUPL-1.0-con-031; Test 3	A	Passed	2011/03/01	Lab 1	a01
SUPL-1.0-con-066 Timeout UT2 - non Cell ID					
SUPL-1.0-con-066	A	Passed	2011/03/15	Lab 1	a01
SUPL-1.0-con-068 Timeout UT3					
SUPL-1.0-con-068	A	Passed	2011/03/15	Lab 1	a01
SUPL-1.0-con-130 Common Positioning method					
SUPL-1.0-con-130; Test 1	A	Passed	2011/03/01	Lab 1	a01
SUPL-1.0-con-130; Test 2	A	Passed	2011/03/02	Lab 1	a01
SUPL-1.0-con-131 Common Positioning method (Cell ID methods)					
SUPL-1.0-con-131; Test 1	A	Passed	2011/03/02	Lab 1	a01
SUPL-1.0-con-166 Timeout UT2 - non Cell ID					
SUPL-1.0-con-166	A	Passed	2011/03/15	Lab 1	a01
SUPL-1.0-con-168 Timeout UT3					
SUPL-1.0-con-168	A	Passed	2011/03/15	Lab 1	a01
SUPL-1.0-con-271 Notification only					
SUPL-1.0-con-271	A	Passed	2011/03/15	Lab 1	a01
SUPL-1.0-con-272 Notification and verification (Allowed on no answer). User accepts					
SUPL-1.0-con-272	A	Passed	2011/03/15	Lab 1	a01
SUPL-1.0-con-273 Notification and verification (Allowed on no answer). User rejects					
SUPL-1.0-con-273	A	Passed	2011/03/15	Lab 1	a01
SUPL-1.0-con-274 Notification and verification (Allowed on no answer). No response					
SUPL-1.0-con-274	A	Passed	2011/03/15	Lab 1	a01
SUPL-1.0-con-275 Notification and verification (Denied on no answer). User accepts					
SUPL-1.0-con-275	A	Passed	2011/03/15	Lab 1	a01
SUPL-1.0-con-276 Notification and verification (Denied on no answer). User rejects					
SUPL-1.0-con-276	A	Passed	2011/03/15	Lab 1	a01
SUPL-1.0-con-277 Notification and verification (Denied on no answer). No response					
SUPL-1.0-con-277	A	Passed	2011/03/15	Lab 1	a01

					Reference: 4-RC009a-2011	
Test Case Identifier / Name					Lab	
Test (condition)		Cat	Result	Date of Test	Ref.	Setup
SUPL-1.0-con-278	Privacy override					
SUPL-1.0-con-278		A	Passed	2011/03/17	Lab 1	a01
SUPL-1.0-con-381	Previous position stored in SLP meets QoP					
SUPL-1.0-con-381		A	Passed	2011/03/02	Lab 1	a01

4 Test Equipment Details

4.1 List of Used Test Equipment

The calibration, hardware and software states are shown for the testing period.

Test Equipment Chamber 4

Lab ID:	Lab 1
<i>Description:</i>	RF Shielded Enclosure including thermo/hydrometer
<i>Serial Number:</i>	see single devices

Single Devices for Chamber 4

<i>Single Device Name</i>	<i>Type</i>	<i>Serial Number</i>	<i>Manufacturer</i>
DC Power Supply	E3631A	KR81912230	Agilent/HP
	<i>Calibration Details</i>		
	Certificate #: 4864160 Incoming: Within manufacturer's specification. Outgoing: Calibrated to manufacturer's specification and cleaned.		
Digital Thermo Hygrometer	VWR 35519-047	101499528	VWR International
	<i>Calibration Details</i>		
	Certificate No.: 4096-2758858 Incoming: Standard calibration for new unit. Outgoing: Within specification		
Digital Thermo Hygrometer	VWR 35519-047	90835645	VWR International
	<i>Calibration Details</i>		
	Certificate No.: Incoming: Standard calibration for new unit. Outgoing: Within specification		
RF Shielded Enclosure	Model # 18-2/2-0	17692-D	ETS-Lindgren

Test Equipment U-LTS

Lab ID:

Manufacturer:

Description:

Serial Number:

Lab 1

Spirent Communication

Spirent ULTS UMTS Location Test System

4467

HW/SW Status

Test Drive ULTS: v5.10.108
Air Access WCDMA-HS: v4.10.107
Spirent SMLC Emulator: v5.10.108
Positioning Application (aka SimGen): v2.90
3GPP-TS-34.171-TP
3GPP-TS-51.010-MP-TP
OMA - ETS SUPL V1.0

Date of Start

2010/07/07

Date of End

Single Devices for U-LTS

Single Device Name	Type	Serial Number	Manufacturer
Cisco 2610 - XM Router	Cisco 2610	FTX1002C1E6	
EPM-P Series Power Meter, dual channel	E4417A	GB41292298	Spirent Communication
Calibration Details			Last Execution
Calibration Certificate# 1-2374920999-1 Received IN-SPECIFICATION Returned IN-SPECIFICATION			2010/01/08
Multi-Channel GPS/SBAS Simulator	GSS6560	9158	Spirent Communication
Peak and Average Sensor	E9325A	MY44420130	Agilent
Calibration Details			Last Execution
Calibration Certificate# 1-2374921352-1 Received IN-SPECIFICATION Returned IN-SPECIFICATION			2010/01/10
Peak and Average Sensor	E9325A	MY44420138	Agilent
Calibration Details			Last Execution
Calibration Certificate# 1-2374921218-1 Received IN-SPECIFICATION Returned IN-SPECIFICATION			2010/01/10
Spirent U-LTS Desktop PC	Dell OPTIPLEX GX620	5H11Y81 (Spirent ID: 4975)	Dell Inc.
Switch Control Mainframe	3499A	MY42002362	Agilent
Symmetricom Rubidium Frequency Standard	8040C Frequency Standard	0520013173	Spirent Communication
Test Configuration Unit	SR5048	TCU280G2	Spirent Communication
WCDMA Universal Network Emulator	SR3420	UNE290A2	Spirent Communication

5 Annex

5.1 Additional Information for OUT Description

Annex A

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Photos of OUT



1. Front View of OUT



2. Back View of OUT

5.2 Additional Information for Report

5.2.1 Assessment of Project

Annex B

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Assessment of Project

1 General

The Huawei Technologies Co.,Ltd.'s GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA/HSPA+ 900/1800/850/1900/FDDI/FDDII/FDDV/FDDVIII terminal equipment type EM820W ECO is a new member of the Huawei Technologies Co.,Ltd.'s type family. And it is based on the already type tested Huawei's GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA/HSPA+ 900/1800/850/1900/FDDI/FDDII/FDDIV/FDDV terminal equipment type EM820U and Huawei's GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA/HSPA+ 900/1800/850/1900/FDDI/FDDII/FDDV/FDDVIII terminal equipment type EM820W.

ritt7layers has generated this Conformity Assessment Report in order to confirm the successful evaluation of all product changes against Product EM820W and EM820U which are explained within this document.

During the assessment process, all available documentation has been reviewed.

2 Technical Assessment

(1) Technical Assessment of Software Changes

The software of the terminal equipment type EM820W ECO is based on EM820U and EM820W.

The main software change is:

- EM820W ECO adds SUPL function.

The previous software version of EM820U was: 11.808.07.03.00

The final software version is: 11.810.09.04.00

Official software version number is 11.810.09.04.00 for EM820W ECO.

The decision to repeat specific tests was made according to the ritt7layers technical assessment of the applicant software changing documentation and the declaration of conformity.

The results are listed in the referenced Test Report .

(2) Technical Assessment of Hardware

The hardware of the terminal equipment type EM820W ECO based on EM820U and EM820W.

The main changes of Hardware is none.

The decision to repeat specific tests was made according to the ritt7layers technical assessment of the applicant hardware changing documentation.

The results are listed in the referenced Test Report.

3 Assessment Summary

As the result of the assessment, ritt7layers assumes that the product conformity of the GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA/HSPA+ 900/1800/850/1900/FDDI/FDDII/FDDV/FDDVIII terminal equipment type

EM820W ECO

With Hardware version: MD1EM820WM, Basic Software version: 11.810.09.04.00 is valid according to the standards referenced in the related Test Report .

ritt7layers maintains the delivered product documentation as a part of the assessment process.

5.2.2 Accreditation Certificate

Annex C

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ISO/IEC 17025

Accreditation Certificate



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