FCC Test Report

Report No.: AGC06P120902F2A

FCC ID : UOSAM65

PRODUCT DESIGNATION: Mobile Phone

BRAND NAME : AMGOO

MODEL NAME : AM62

CLIENT : Amgoo Telecom Co., Ltd.

DATE OF ISSUE : Sep. 24, 2012

STANDARD(S) : FCC Part 22H & 24E Rules

REPORT VERSION: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd.

CAUTION: This report shall not be reproduced except in full without the written permission of the test laboratory and shall not be quoted out of context.

Page 1 of 63

VERIFICATION OF COMPLIANCE

	Amgoo Telecom Co., Ltd.
Applicant:	6/F,Block 3,Tongjian Building,NO.2013,Middle Shennan Rd.,Futian District, Shenzhen,China
	Topology Communication Technology(Shenzhen)CO.,LTD
Manufacturer:	KaiXinDa Technology Park,No.49 Zhou Shi Road,Shiyan County,Bao'an District,Shenzhen,China
Product Designation:	Mobile Phone
Brand name:	AMGOO
Test Model:	AM65
FCC ID:	UOSAM65
Report Number:	AGC06P120902F2A
Date of Test:	Sep.17, 2012 to Sep.21, 2012

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C 63.4:2003 and TIA/EIA 603. The sample tested as described in this report is in compliance with the FCC Rules Part 22H and 24E.

The test results of this report relate only to the tested sample identified in this report.

Tested By:

Bart Xie Sep. 24, 2012

Reviewed By:

Forrest Lei Sep. 24, 2012

Approved By:

Solger Zhang Sep. 24, 2012

TABLE OF CONTENTS

1. GENERAL INFORMATION	4
1.1 PRODUCT DESCRIPTION	
1.2RELATED SUBMITTAL(S) / GRANT (S)	
1.3 TEST METHODOLOGY	6
1.4 TEST FACILITY	6
1.5 MEASUREMENT INSTRUMENTS	6
1.6 SPECIAL ACCESSORIES	6
1.7 EQUIPMENT MODIFICATIONS	6
2. SYSTEM TEST CONFIGURATION	7
2.1EUT CONFIGURATION	
2.2 EUT EXERCISE	
2.3 GENERAL TECHNICAL REQUIREMENTS	7
2.4 CONFIGURATION OF EUT SYSTEM	
3. SUMMARY OF TEST RESULTS	9
4. DESCRIPTION OF TEST MODES	9
5. OUTPUT POWER	10
5.1 CONDUCTED OUTPUT POWER	10
5.2 RADIATED OUTPUT POWER	13
6. SPURIOUS EMISSION	16
6.1 CONDUCTED SPURIOUS EMISSION	17
6.2 RADIATED SPURIOUS EMISSION	19
7. CONDUCTED EMISSION	21
7.1 MEASUREMENT METHOD	22
7.2 PROVISIONS APPLICABLE	22

7.3 MEASUREMENT RESULT	23
8. FREQUENCY STABILITY	25
8.1 MEASUREMENT METHOD	25
8.2 PROVISIONS APPLICABLE	25
8.3 MEASUREMENT RESULT	26
9. OCCUPIED BANDWIDTH	29
9.1 MEASUREMENT METHOD	29
9.2 PROVISIONS APPLICABLE	29
9.3 MEASUREMENT RESULT	29
10. EMISSION BANDWIDTH	30
10.1 MEASUREMENT METHOD	30
10.2 PROVISIONS APPLICABLE	30
10.3 MEASUREMENT RESULT	30
11. BAND EDGE	31
11.1 MEASUREMENT METHOD	31
11.2 PROVISIONS APPLICABLE	31
11.3 MEASUREMENT RESULT	31
APPENDIX I_TEST PLOTS FOR CONDUCTED SPURIOUS EMISSION	32
APPENDIX II_TEST PLOTS FOR OCCUPIED BANDWIDTH (99%)	45
APPENDIX III_TEST PLOTS FOR BAND EDGES	52
APPENDIX IV_PHOTOGRAPHS OF TEST SETUP	57
APPENDIX V PHOTOGRAPHS OF EUT	58

Page 4 of 63

1. GENERAL INFORMATION

1.1 PRODUCT DESCRIPTION

A major technical description of EUT is described as following:

Product Designation:	Mobile Phone		
Hardware version:	G618-MB-V0.2		
Software version:	AMGOO_AM65_V5_1145_B76_20120908		
FCC ID:	UOSAM65		
Frequency Bands:	☐ GSM 850 ☐ PCS 1900 (U.S. Bands) ☐ GSM 900 ☐ DCS 1800 (Non-U.S. Bands) U.S. Bands: ☐ UMTS FDD Band II ☐ UMTS FDD Band V Non-U.S. Bands: ☐ UMTS FDD Band I ☐ UMTS FDD Band VIII		
Antenna:	Integrated Antenna		
Antenna gain(GSM):	1.0dBi		
Power Supply:	DC 3.7V by battery		
Battery parameter:	DC3.7V/1950mAh		
Adapter Input:	AC100-240V, 50-60Hz,		
Adapter Output:	DC5V,500mA		
Dual Card:	Card 1: WCDMA/GSM Card Slot Card 2: GSM Card Slot		
GPRS Class	12		
Extreme Vol. Limits:	DC3.4 V to 4.2 V (Normal: DC3.7 V)		
Extreme Temp. Tolerance	-10℃ to +50℃		

Other functions have been performed according to verification procedure except for Bluetooth and MS function. Card 1 can't transmit with Card 2 simultaneously.

^{***} Note: The High Voltage DC4.2V and Low Voltage DC3.4V were declared by manufacturer, The EUT couldn't be operating normally with higher or lower voltage.

Page 5 of 63

WCDMA Card Slot:

	Maximum ERP/EIRP	Max. Conducted Power	Max. Average
	(dBm)	(dBm)	Burst Power (dBm)
GSM 850	30.73	32.47	32.23
PCS 1900	28.67	29.50	29.37
UMTS BAND II	20.51	22.72	22.31
UMTS BAND V	21.54	23.33	23.25

GSM Card Slot:

	Maximum ERP/EIRP	Max. Conducted Power	Max. Average
	(dBm)	(dBm)	Burst Power (dBm)
GSM 850	30.64	32.44	31.17
PCS 1900	28.57	29.45	28.30

Page 6 of 63

1.2 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID:UOSAM65**, filing to comply with the FCC Part 22H&24E and RSS-132&133requirements.

1.3 TEST METHODOLOGY

The radiated emission testing was performed according to the procedures of ANSI C 63.4: 2003; TIA/EIA 603 and FCC CFR 47 Rules of 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057.

1.4 TEST FACILITY

The test site used to collect the radiated data is located at:

Attestation of Global Compliance (Shenzhen) Co., Ltd.

2/F., Building 2, No.1-No.4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District, Shenzhen, Guangdong, China

FCC register No.: 259865

1.5 MEASUREMENT INSTRUMENTS

NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	NEXT CAL. DATE
SPECTRUM ANALYZER	AGILENT	E4440A	US44300399	2013.07.17
TEST RECEIVER	R&S	ESCI	A0304218	2013.07.17
COMMUNICATION TESTER	AGILENT	8960	3104A03367	2013.07.17
COMMUNICATION TESTER	R&S	CMU200	A0304247	2013.07.17
TEST RECEIVER	R&S	FCKL1528	A0304230	2013.07.17
LISN	SCHWARZBECK	NSLK8127	A0304233	2013.07.17
CLIMATE CHAMBER	ALBATROSS			2013.07.17
Loop Antenna	Daze	ZN30900N	SEL0097	2013.07.17
Bilogical Antenna	A.H. Systems Inc.	SAS-521-4	N/A	2013.07.17
Horn Antenna	EM	EM-AH-10180	N/A	2013.07.17

1.6 SPECIAL ACCESSORIES

The battery and the charger, earphone supplied by the applicant were used as accessories and being tested with EUT intended for FCC grant together.

1.7 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

Page 7 of 63

2. SYSTEM TEST CONFIGURATION

2.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT EXERCISE

The Transmitter was operated in the maximum output power mode through Communication Tester. The TX frequency was fixed which was for the purpose of the measurements.

2.3 GENERAL TECHNICAL REQUIREMENTS

Item Number		Item Description	FCC Rules
1	Output	Conducted output power	22.012(a) / 24.222 (b)
, I	Power	Radiated output power	22.913(a) / 24.232 (b)
	Spurious	Conducted	
2	Spurious Emission	spurious emission	2.1051 / 22.917 / 24.238
	EIIIISSIOII	Radiated spurious emission	
3	Mains Cond	ucted Emission	15.107 / 15.207
4	Frequency S	Stability	2.1055 /24.235
5	Occupied Ba	andwidth	2.1049 (h)(i)
6	Emission Bandwidth		22.917(b) / 24.238 (b)
7	Band Edge		22.917(b) / 24.238 (b)

Page 8 of 63

2.4 CONFIGURATION OF EUT SYSTEM

Fig. 2-1 Configuration of EUT System



Table 2-1 Equipment Used in EUT System

Item	Equipment	Model No.	ID or Specification	Note
1	MOBILE PHONE	AM65	FCC ID: UOSAM65	EUT
2	Adapter	CH7	DC5V/500mA	Accessory
3	Battery	AM-G19	DC3.7V/1950mAh	Accessory
4	Earphone	N/A	N/A	Accessory
5	USB Cable	N/A	N/A	Accessory

^{***}Note: All the accessories have been used during the test. The following "EUT" in setup diagram means EUT system.

Page 9 of 63

3. SUMMARY OF TEST RESULTS

Item Number	Item Description		FCC Rules	Result	
1	Output	Conducted Output Power	22.913(a) / 24.232 (b) Pass		
,	Power	Radiated Output Power		. 455	
2	Spurious Emission	Conducted Spurious Emission Radiated Spurious Emission	2.1051 / 22.917 / 24.238	Pass	
3	Mains Con	ducted Emission	15.107 / 15.207	Pass	
4	Frequency Stability		2.1055 /24.235	Pass	
5	Occupied Bandwidth		2.1049 (h)(i)	Pass	
6	Emission E	Bandwidth	22.917(b) / 24.238 (b)	Pass	
7	Band Edge	•	22.917(b) / 24.238 (b)	Pass	

4. DESCRIPTION OF TEST MODES

During the testing, the EUT was controlled via Rhode & Schwarz Digital Radio Communication Tester (CMU 200) to ensure max power transmission and proper modulation. Three channels (The top channel, the middle channel and the bottom channel) were chosen for testing on both GSM and PCS frequency band.

***Note: GSM /GPRS850, GSM/GPRS1900, HSPA band II, HSPA band V, mode have been tested during the test.

The worst condition was recorded in the test report if no other modes test data.

Page 10 of 63

5. OUTPUT POWER

5.1 Conducted Output Power

5.1.1 MEASUREMENT METHOD

The EUT was setup for the max output power with pseudo random data modulation. Power was measured with Spectrum Analyzer. The measurements were performed on all modes (GSM/GPRS850, GSM/GPRS1900, HSPA band II, HSPA band V) at 3 typical channels (the Top Channel, the Middle Channel and the Bottom Channel) for each band.

5.1.2 MEASUREMENT RESULT

	Conducted Output Power Limits for GSM850 band				
Mode	Nominal Peak Power	Tolerance(dB)			
GSM	33 dBm (2W)	- 1			
	Conducted Output Power Limits for Po	CS1900 band			
Mode	Nominal Peak Power	Tolerance(dB)			
GSM	30 dBm (1W)	- 1			
	Conducted Output Power Limits for U	MTS band II			
Mode	Nominal Peak Power	Tolerance(dB)			
HSPA	24 dBm (0.25W)	- 2			
	Conducted Output Power Limits for UMTS band V				
Mode	Nominal Peak Power	Tolerance(dB)			
HSPA	24 dBm (0.25W)	- 2			

Page 11 of 63

GSM 850:

Mode	Frequency	Reference	Peak	Tolerance	Avg.Burst	Duty cycle	Frame
Mode	(MHz)	Power	Power		Power	Factor(dB)	Power(dBm)
	824.2	33	32.47	-0.53	32.23	-9	23.23
GSM850	836.6	33	32.41	-0.59	32.17	-9	23.17
	848.8	33	32.37	-0.63	32.14	-9	23.14
CDDC050	824.2	33	32.43	-0.57	32.13	-9	23.13
GPRS850	836.6	33	32.39	-0.61	32.09	-9	23.09
(1 Slot)	848.8	33	32.36	-0.64	32.07	-9	23.07
CDDC050	824.2	30	29.54	-0.46	29.44	-6	23.44
GPRS850	836.6	30	29.51	-0.49	29.41	-6	23.41
(2 Slot)	848.8	30	29.47	-0.53	29.37	-6	23.37
CDDC050	824.2	28.23	27.43	-0.8	27.32	-4.26	23.32
GPRS850	836.6	28.23	27.39	-0.84	27.29	-4.26	23.29
(3 Slot)	848.8	28.23	27.36	-0.87	27.26	-4.26	23.26
CDDC0E0	824.2	27	26.55	-0.45	26.43	-3	23.43
GPRS850	836.6	27	26.51	-0.49	26.39	-3	23.39
(4 Slot)	848.8	27	26.47	-0.53	26.36	-3	23.36

PCS 1900:

Mode	Frequency (MHz)	Reference Power	Peak Power	Tolerance	Avg.Burst Power	Duty cycle Factor(dB)	Frame Power(dBm)
	1850.2	30	29.50	-0.53	29.37	-9	20.37
GSM1900	1880	30	29.43	-0.57	29.33	-9	20.33
	1909.8	30	29.39	-0.61	29.29	-9	20.29
CDDC1000	1850.2	30	29.49	-0.49	29.21	-9	20.21
GPRS1900 (1 Slot)	1880	30	29.47	-0.53	29.17	-9	20.17
	1909.8	30	29.44	-0.56	29.14	-9	20.14
GPRS1900	1850.2	27	26.36	-0.64	26.27	-6	20.27
	1880	27	26.32	-0.68	26.26	-6	20.26
(2 Slot)	1909.8	27	26.29	-0.71	26.21	-6	20.21
CDDC1000	1850.2	25.23	25.11	-0.12	24.96	-4.26	20.70
GPRS1900	1880	25.23	25.07	-0.16	24.94	-4.26	20.68
(3 Slot)	1909.8	25.23	25.04	-0.19	24.91	-4.26	20.65
CDDC1000	1850.2	24	23.51	-0.49	23.39	-3	20.39
GPRS1900 (4 Slot)	1880	24	23.47	-0.53	23.36	-3	20.36
	1909.8	24	23.46	-0.54	23.34	-3	20.34

Page 12 of 63

UMTS BAND II

Mode	Frequency (MHz)	Reference power	Peak Power	Tolerance	Avg.Burst Power
WODMA 4000	1852.4	24	22.72	-1.28	22.31
WCDMA 1900 - RMC	1880	24	22.61	-1.39	22.29
RIVIC	1907.6	24	22.57	-1.43	22.27
\\(CD\\\\\ 1000	1852.4	24	22.55	-1.45	22.21
WCDMA 1900	1880	24	22.51	-1.49	22.19
AMR -	1907.6	24	22.47	-1.53	22.17
LIODA	1852.4	24	22.41	-1.59	22.14
HSPA	1880	24	22.38	-1.62	22.11
Subtest 1	1907.6	24	22.34	-1.66	22.07
LICDA	1852.4	24	22.31	-1.69	22.05
HSPA	1880	24	22.29	-1.71	22.03
Subtest 2	1907.6	24	22.26	-1.74	22.01
LIODA	1852.4	24	22.27	-1.73	22.04
HSPA	1880	24	22.25	-1.75	22.02
Subtest 3	1907.6	24	22.23	-1.77	22.00
LICDA	1852.4	24	22.31	-1.69	22.04
HSPA Subtest 4	1880	24	22.27	-1.73	22.05
	1907.6	24	22.33	-1.67	22.06
LIODA	1852.4	24	22.37	-1.63	22.09
HSPA	1880	24	22.39	-1.61	22.10
Subtest 5	1907.6	24	22.43	-1.57	22.15

Page 13 of 63

UMTS BAND V

Mode	Frequency (MHz)	Reference power	Peak Power	tolerance	Avg.Burst Power
MODMA 050	826.4	24	23.33	-0.67	23.25
WCDMA 850 RMC	835.0	24	23.31	-0.69	23.23
RIVIC	846.6	24	23.29	-0.71	23.16
\\\\CD\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	826.4	24	23.27	-0.73	23.07
WCDMA 850	835.0	24	23.23	-0.77	22.94
AMR	846.6	24	23.19	-0.81	22.89
LICDA	826.4	24	22.69	-1.31	22.51
HSPA	835.0	24	22.66	-1.34	22.47
Subtest 1	846.6	24	22.63	-1.37	22.43
	826.4	24	22.61	-1.39	22.37
HSPA	835.0	24	22.56	-1.44	22.41
Subtest 2	846.6	24	22.53	-1.47	22.42
LIODA	826.4	24	22.51	-1.49	22.39
HSPA	835.0	24	22.52	-1.48	22.41
Subtest 3	846.6	24	22.47	-1.53	22.37
LICDA	826.4	24	22.46	-1.54	22.35
HSPA Subtest 4	835.0	24	22.49	-1.51	22.37
	846.6	24	22.48	-1.52	22.36
LIODA	826.4	24	22.51	-1.49	22.41
HSPA	835.0	24	22.54	-1.46	22.44
Subtest 5	846.6	24	22.57	-1.43	22.43

According to 3GPP 25.101 sub-clause 6.2.2 , the maximum output power is allowed to be reduced by following the table.

Table 6.1aA: UE maximum output power with HS-DPCCH and E-DCH

UE Transmit Channel Configuration	CM(db)	MPR(db)	
For all combinations of ,DPDCH,DPCCH	0< CM<2 F	MANY(CNA 4 O)	
HS-DPDCH,E-DPDCH and E-DPCCH	0≤ CM≤3.5	MAX(CM-1,0)	

Note: CM=1 for β_c/β_d =12/15, β_{hs}/β_c =24/15.For all other combinations of DPDCH, DPCCH,

HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Page 14 of 63

The device supports MPR to solve linearity issues (ACLR or SEM) due to the higher peak-to average ratios (PAR) of the HSUPA signal. This prevents saturating the full range of the TX DAC inside of device and provides a reduced power output to the RF transceiver chip according to the Cubic Metric (a function of the combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH).

When E-DPDCH channels are present the beta gains on those channels are reduced firsts to try to get the power under the allowed limit. If the beta gains are lowered as far as possible, then a hard limiting is applied at the maximum allowed level.

The SW currently recalculates the cubic metric every time the beta gains on the E-DPDCH are reduced. The cubic metric will likely get lower each time this is done .However, there is no reported reduction of maximum output power in the HSUPA mode since the device also provides a compensate for the power back-off by increasing the gain of TX_AGC in the transceiver (PA) device.

The end effect is that the DUT output power is identical to the case where there is no MPR in the device.

Page 15 of 63

5.2 RADIATED OUTPUT POWER

5.2.1 MEASUREMENT METHOD

The measurements procedures specified in TIA-603C-2004 were applied.

- In an anechoic antenna test chamber, a half-wave dipole antenna for the frequency band of interest is placed at the reference centre of the chamber. An RF Signal source for the frequency band of interest is connected to the dipole with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A known (measured) power (Pin) is applied to the input of the dipole, and the power received (Pr) at the chamber's probe antenna is recorded.
- The substitution method is used. Substitution values at each frequency are measured before and saved to the test software. A "reference path loss" is established as ARpl=Pin + 2.15 Pr. The ARpl is the attenuation of "reference path loss", and including the gain of receive antenna, the cable loss and the air loss. The measurement results are obtained as described below: Power=PMea+ARpl
- 3 The EUT is substituted for the dipole at the reference centre of the chamber and a scan is performed to obtain the radiation pattern.
- 4 From the radiation pattern, the co-ordinates where the maximum antenna gain occurs are identified.
- 5 The EUT is then put into continuously transmitting mode at its maximum power level.
- Power mode measurements are performed with the receiving antenna placed at the coordinates determined in Step 3 to determine the output power as defined in Rule 24.232 (b) and (c). The "reference path loss" from Step1 is added to this result.
- 7 This value is EIRP since the measurement is calibrated using a half-wave dipole antenna of known gain (2.15 dBi) and known input power (Pin).
- 8 ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dBi..

5.2.2 PROVISIONS APPLICABLE

This is the test for the maximum radiated power from the EUT. Rule Part 24.232(b) specifies, "Mobile/portable stations are limited to 2 watts e.i.r.p. Peak power" and 24.232(c) specifies that "Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage." Rule Part 22.913(a) specifies "Maximum ERP. The effective radiated power (ERP) of base transmitters and cellular repeaters must not exceed 500 Watts. The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts."

Mode	Nominal Peak Power
GSM 850	<=38.45 dBm (7W)
PCS 1900	<=33 dBm (2W)
UMTS BAND II	<=33 dBm (2W)
UMTS BANDV	<=38.45 dBm (7W)

Page 16 of 63

5.2.3 MEASUREMENT RESULT

	Radiated Power (ERP) for GSM 850 MHZ						
	Result						
Mode	Frequency	Max. Peak ERP	Polarization	Conclusion			
		(dBm)	Of Max. ERP				
	824.2	30.73	Horizontal	Pass			
GSM850	836.6	30.62	Horizontal	Pass			
	848.8	30.54	Horizontal	Pass			

Radiated Power (E.I.R.P) for PCS 1900 MHZ					
	Result				
Mode	Frequency	Max. Peak	Polarization	Conclusion	
		E.I.R.P.(dBm)	Of Max. E.I.R.P.		
	1850.2	28.67	Horizontal	Pass	
GSM 1900	1880.0	28.62	Horizontal	Pass	
	1909.8	28.61	Horizontal	Pass	

Radiated Power (E.I.R.P) for UMTS band II					
		Res	ult		
Mode	Frequency	Max. Peak ERP	Polarization		
		(dBm)	Of Max. ERP		
DMC	1852.4	20.51	Horizontal	Pass	
RMC 12.2kbps	1880	20.44	Horizontal	Pass	
12.28005	1907.6	20.42	Horizontal	Pass	

	Radiated Power (ERP) for UMTS band V					
Result						
Mode	Frequency	Max. Peak	Polarization	Conclusion		
		E.I.R.P.(dBm)	Of Max. E.I.R.P.			
RMC	826.4	21.54	Horizontal	Pass		
	835.0	21.47	Horizontal	Pass		
12.2kbps	846.6	21.45	Horizontal	Pass		

Note: Above is worst mode data.

Page 17 of 63

6. SPURIOUS EMISSION

6.1 CONDUCTED SPURIOUS EMISSION

6.1.1 MEASUREMENT METHOD

The following steps outline the procedure used to measure the conducted emissions from the FUT

- 1, Determine frequency range for measurements: From CFR 2.1057 the spectrum should be investigated from the lowest radio frequency generated in the equipment up to at least the 10th harmonic of the carrier frequency. For the equipment of PCS1900 band, this equates to a frequency range of 30 MHz to 19.1 GHz, data taken from 30 MHz to 20 GHz. For GSM850, data taken from 30 MHz to 9 GHz.
- 2, Determine EUT transmit frequencies: the following typical channels were chosen to conducted emissions testing.

Typical Channels for testing of GSM 850 MHz				
Channel	Frequency (MHz)			
128	824.2			
190	836.6			
251	848.8			

Typical Channels for testing of PCS 1900 MHz				
Channel	Frequency (MHz)			
512	1850.2			
661	1880.0			
810	1909.8			

Typical Channels for testing of UMTS band II				
Channel	Frequency (MHz)			
9262	1852.4			
9400	1880.0			
9538	1907.6			

Typical Channels for testing of UMTS band V							
Channel	Frequency (MHz)						
4132	826.4						
4175	835.0						
4233	846.6						

Page 18 of 63

6.1.2 PROVISIONS APPLICABLE

On any frequency outside frequency band of the USPCS spectrum, the power of any emission shall be attenuated below the transmitter power (P, in Watts) by at least 43+10Log(P) dB. For all power levels +30 dBm to 0 dBm, this becomes a constant specification limit of -13 dBm.

6.1.3 MEASUREMENT RESULT

PLEASE REFER TO: APPENDIX I TEST PLOTS FOR CONDUCTED SPURIOUS EMISSION

Note: 1. Below 30MHZ no Spurious found and The GSM modes is the worst condition.

2. As no emission found in standby or receive mode, no recording in this report.

Page 19 of 63

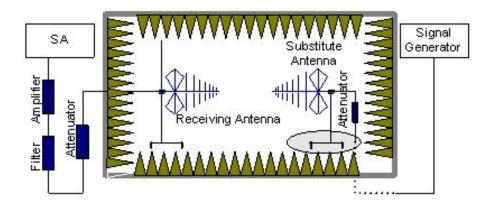
6.2 Radiated Spurious Emission

6.2.1 MEASUREMENT METHOD

The measurements procedures specified in TIA-603C-2004 were used for testing. The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment. The resolution bandwidth is set 1MHz as outlined in Part 24.238. The measurements were performed on all modes(GPRS850, GPRS1900, HSDPA band II, HSDPA band V) at 3 typical channels (the Top Channel, the Middle Channel and the Bottom Channel) for each band.

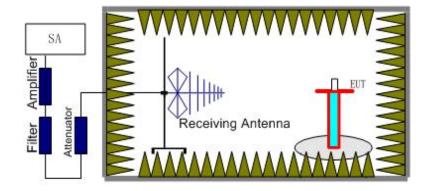
The procedure of radiated spurious emissions is as follows:

a) Pre-calibration With pre-calibration method, the Radiated Spurious Emissions(RSE) is calculated as, RSE=Rx (dBuV) +CL (dB) +SA (dB) +Gain (dBi) -107 (dBuV to dBm) The SA is calibrated using following setup.



b) EUT was placed on a 0.8 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the test item for emission measurements. The height of receiving antenna is 0.8m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the test item and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic were measured with peak detector and 1MHz bandwidth.

Page 20 of 63



Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies of the PCS 1900 band (1850.2 MHz, 1880 MHz and 1909.8 MHz) ,GSM850 band (824.2MHz, 836.6MHz, 848.8MHz), UMTS band II(1852.4MHz, 1880MHz, 1907.6MHz), UMTS band V(826.4MHz, 835.0MHz, 846.6MHz) . It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of any band into any of the other blocks.

The substitution method is used. Substitution values at each frequency are measured before and saved to the test software. A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss and the air loss. The measurement results are obtained as described below: Power=P_{Mea}+A_{Rpl}

6.2.2 PROVISIONS APPLICABLE

(a) On any frequency outside a licensee's frequency block (e.g. A, D, B, etc.) within the USPCS spectrum, the power of any emission shall be attenuated below the transmitter power (P, in Watts) by at least 43+10Log(P) dB. The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

Note: only result the worst condition of each test mode:

Page 21 of 63

6.2.3 MEASUREMENT RESULT

GSM 850:

The Worst Test Results for Channel 251/848.8 MHz									
Frequency(MHz)	Power(dBm)	A _{Rpl} (dBm)	Р _{меа} (dВm)	Limit(dBm)	Polarity				
1685.23	-36.69	-5.01	-41.70	-13.00	Horizontal				
2456.12	-36.61	-2.18	-38.79	-13.00	Vertical				
3645.78	-36.57	3.46	-33.11	-13.00	Vertical				
4536.58	-37.24	2.79	-34.45	-13.00	Horizontal				

PCS 1900:

The Worst Test Results for Channel 881/1909.8MHz									
Frequency(MHz)	Power(dBm)	A _{Rpl} (dBm)	P _{Mea} (dBm)	Limit (dBm)	Polarity				
1429.36	-41.33	-3.22	-44.55	-13.00	Vertical				
2563.47	-39.74	-0.24	-39.98	-13.00	Vertical				
3645.26	-37.85	3.98	-33.87	-13.00	Horizontal				
4563.56	-38.67	-2.26	-40.93	-13.00	Vertical				
5689.25	-37.91	-3.12	-41.03	-13.00	Horizontal				

UMTS band II:

The Worst Test Results for Channel 9538/1907.6MHz								
Frequency(MHz)	Power(dBm)	A _{Rpl} (dBm)	P _{Mea} (dBm)	Limit (dBm)	Polarity			
1536.98	-38.67	-2.25	-40.92	-13.00	Vertical			
2536.41	-41.37	-3.03	-44.4	-13.00	Horizontal			
3786.52	-44.61	-1.87	-46.48	-13.00	Horizontal			
5123.56	-39.59	8.52	-31.07	-13.00	Vertical			
6615.32	-55.64	18.7	-36.94	-13.00	Horizontal			

UMTS band V:

The Worst Test Results for Channel 4233/846.6MHz								
Frequency(MHz)	Power(dBm)	A _{Rpl} (dBm)	Р _{меа} (dВm)	Limit (dBm)	Polarity			
1598.26	-39.79	-2.26	-39.79	-13.00	Vertical			
2365.78	-38.66	-3.12	-38.66	-13.00	Horizontal			
4967.65	-41.37	-1.74	-41.37	-13.00	Horizontal			
6457.86	-38.43	8.74	-38.43	-13.00	Vertical			
7896.56	-41.36	17.89	-41.36	-13.00	Horizontal			

Note: Below 30MHZ no Spurious found and The GSM modes is the worst condition.

Page 22 of 63

7. MAINS CONDUCTED EMISSION

7.1 MEASUREMENT METHOD

The measurement procedure specified in ANSI C63.4-2003 was used for testing. Conducted Emission was measured with travel charger.

7.2 PROVISIONS APPLICABLE

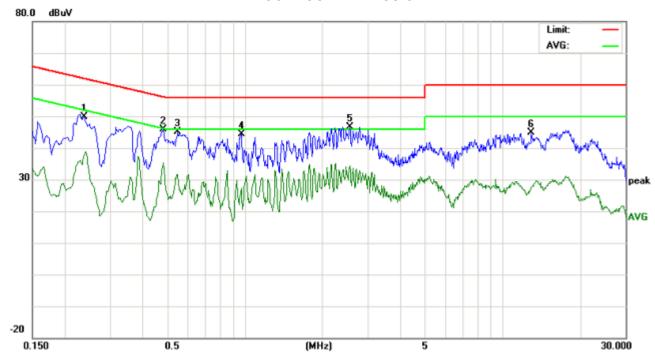
Frequency of Emission (MHz)	Conducted Limit(dBuV)					
, , ,	Quasi-Peak	Average				
0.15 – 0.5	66 to 56 *	56 to 46 *				
0.5 – 5	56	46				
5 – 30	60	50				
*Decreases with the logarithm of the frequency.						
*The lower limit shall apply at the transition frequency.						

Note: The GSM850 mode is the worst condition and the test result as following:

Page 23 of 63

7.3 MEASUREMENT RESULT

LINE CONDUCTED EMISSION - L



Site: Conduction Phase: L1 Temperature: 26
Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 60 %

EUT: Mobile Phone

M/N: AM65

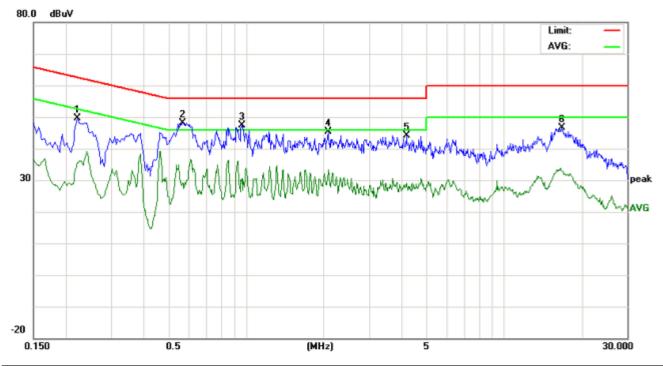
Mode: Call GSM850

Note:

No.	Freq.	Rea	ding_L (dBuV)		Correct Factor		asuren (dBuV)			nit uV)		rgin IB)	P/F	Comment
	(MHz)	Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.2404	35.15		23.25	10.26	45.41		33.51	62.08	52.08	-16.67	-18.57	Р	
2	0.4819	35.39		25.10	10.39	45.78		35.49	56.31	46.31	-10.53	-10.82	Р	
3	0.5500	34.78		21.03	10.35	45.13		31.38	56.00	46.00	-10.87	-14.62	Р	
4	0.9699	34.07		17.04	10.38	44.45		27.42	56.00	46.00	-11.55	-18.58	Р	
5	2.5579	36.20		23.92	10.44	46.64		34.36	56.00	46.00	-9.36	-11.64	Р	
6	12.9419	34.72		17.40	10.14	44.86		27.54	60.00	50.00	-15.14	-22.46	Р	

Page 24 of 63

LINE CONDUCTED EMISSION - N



Site: Conduction Phase: N Temperature: 26
Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 60 %

EUT: Mobile Phone

M/N: AM65

Mode: Call GSM850

Note:

No.	Freq.	1	ding_L (dBuV)		Correct Factor		asuren (dBuV)			nit uV)	Mai (d	rgin fB)	P/F	Comment
	(MHz)	Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.2220	39.34		25.33	10.24	49.58		35.57	62.74	52.74	-13.16	-17.17	Р	
2	0.5700	37.91		18.89	10.34	48.25		29.23	56.00	46.00	-7.75	-16.77	Р	
3	0.9660	37.11		20.21	10.38	47.49		30.59	56.00	46.00	-8.51	-15.41	Р	
4	2.0860	35.19		22.72	10.26	45.45		32.98	56.00	46.00	-10.55	-13.02	Р	
5	4.1819	33.79		18.76	10.35	44.14		29.11	56.00	46.00	-11.86	-16.89	Р	
6	16.7819	36.46		22.83	10.13	46.59		32.96	60.00	50.00	-13.41	-17.04	Р	

Page 25 of 63

8. FREQUENCY STABILITY

8.1 MEASUREMENT METHOD

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a "call mode". This is accomplished with the use of R&S CMU200 DIGITAL RADIO COMMUNICATION TESTER.

- 1 , Measure the carrier frequency at room temperature.
- 2 , Subject the EUT to overnight soak at -10℃.
- 3 , With the EUT, powered via nominal voltage, connected to the CMU200 and in a simulated call on channel 661 for PCS 1900 band , channel 190 for GSM 850 band, channel 9400 for UMTS band II and channel 4175 for UMTS band V measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
- 4 , Repeat the above measurements at 10° C increments from -10°C to +50°C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
- 5 , Re-measure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments re-measuring carrier frequency at each voltage. Pause at nominal voltage for 1 1/2 hours unpowered, to allow any self-heating to stabilize, before continuing.
- 6 , Subject the EUT to overnight soak at +50°C.
- 7 , With the EUT, powered via nominal voltage, connected to the CMU200 and in a simulated call on the centre channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
- 8 , Repeat the above measurements at 10° C increments from +50°C to -10°C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
- 9 , At all temperature levels hold the temperature to +/- 0.5°C during the measurement procedure.

8.2 PROVISIONS APPLICABLE

8.2.1 For Hand carried battery powered equipment

According to the JTC standard the frequency stability of the carrier shall be accurate to within 0.1 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 24.235, Frequency Stability. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. As this transceiver is considered "Hand carried, battery powered equipment" Section 2.1055(d)(2) applies. This requires that the lower voltage for frequency stability testing be specified by the manufacturer. This transceiver is specified to operate with an input voltage of between 6.3VDC and 8.5VDC, with a nominal voltage of 7.4VDC. Operation above or below these voltage limits is prohibited by transceiver software in order to prevent improper operation as well as to protect components from overstress. These voltages represent a tolerance of -10 % and +12.5 %. For the purposes of measuring frequency stability these voltage limits are to be used.

Page 26 of 63

8.2.2 For equipment powered by primary supply voltage

According to the JTC standard the frequency stability of the carrier shall be accurate to within 0.1 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 24.235, Frequency Stability. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. For this EUT section 2.1055(d)(1) applies. This requires varying primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment, the normal environment temperature is 20°C.

8.3 MEASUREMENT RESULT

	Frequency Error Against Voltage for GSM850 band									
Voltage(V)	Frequency error(Hz)	Frequency error(ppm)								
6.3	34	0.041								
7.4	35	0.042								
8.5	41	0.049								

Frequenc	Frequency Error Against Temperature for GSM850 band								
temperature(°C)	Frequency error(Hz)	Frequency error(ppm)							
-10	42	0.050							
0	37	0.044							
10	33	0.039							
20	44	0.053							
30	36	0.043							
40	35	0.042							
50	41	0.049							

Note: The EUT doesn't work below -10 $^{\circ}\mathrm{C}$

Page 27 of 63

Frequency Error Against Voltage for PCS1900 band								
Voltage(V) Frequency error(Hz) Frequency error(ppm)								
6.3	42	0.022						
7.4	39	0.021						
8.5	43	0.023						

Frequency Error Against Temperature for PCS1900 band								
temperature(°C)	Frequency error(Hz)	Frequency error(ppm)						
-10	55	0.029						
0	48	0.026						
10	38	0.020						
20	34	0.018						
30	32	0.017						
40	45	0.024						
50	55	0.029						

Note: The EUT doesn't work below -10°C

Frequency Error Against Voltage for UMTS band II			
Voltage(V) Frequency error(Hz) Frequency error(ppm)			
6.3	43	0.023	
7.4	36	0.019	
8.5	37	0.020	

Frequency Error Against Temperature for UMTS band II		
temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-10	60	0.032
0	55	0.029
10	47	0.025
20	38	0.020
30	45	0.024
40	42	0.022
50	54	0.029

Note: The EUT doesn't work below -10 $^{\circ}\mathrm{C}$

Page 28 of 63

Frequency Error Against Voltage for UMTS band V			
Voltage(V) Frequency error(Hz) Frequency error(ppm)			
6.3	39	0.047	
7.4	42	0.050	
8.5	34	0.041	

Frequency Error Against Temperature for UMTS band V		
temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-10	46	0.055
0	43	0.051
10	34	0.041
20	33	0.040
30	26	0.031
40	37	0.044
50	44	0.053

Note: The EUT doesn't work below -10 $^{\circ}\mathrm{C}$

Page 29 of 63

9. OCCUPIED BANDWIDTH

9.1 MEASUREMENT METHOD

The test set up and general procedure is similar to conducted peak output power test. Only different for setting the measurement configuration of the measuring instrument of Spectrum Analyzer.

9.2 PROVISIONS APPLICABLE

The emission bandwidth is defined as two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26dB below the transmitter power

9.3 MEASUREMENT RESULT

Occupied Bandwidth (99%) for GSM850 band			
Mode	Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
Low Channel	824.2	248.65	
Middle Channel	836.6	246.27	
High Channel	848.8	247.76	

Occupied Bandwidth (99%) for PCS1900 band			
Mode	Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
Low Channel	1850.2	242.95	
Middle Channel	1880.0	245.09	
High Channel	1909.8	247.74	

Occupied Bandwidth (99%) for UMTS band II			
Mode	Frequency(MHz)	Occupied Bandwidth (99%)(MHz)	
Low Channel	1852.4	4.16	
Middle Channel	1880	4.17	
High Channel	1907.6	4.16	

Occupied Bandwidth (99%) for UMTS band V			
Mode	Frequency(MHz)	Occupied Bandwidth (99%)(MHz)	
Low Channel	826.4	4.24	
Middle Channel	835.0	4.29	
High Channel	846.6	4.24	

Page 30 of 63

10. EMISSION BANDWIDTH

10.1 MEASUREMENT METHOD

The test set up and general procedure is similar to conducted peak output power test. Only different for setting the measurement configuration of the measuring instrument of Spectrum Analyzer.

10.2 PROVISIONS APPLICABLE

The emission bandwidth is defined as two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26dB below the transmitter power

10.3 MEASUREMENT RESULT

Emission Bandwidth (-26dBc) for GSM850 band			
Mode	Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
Low Channel	824.2	307.59	
Middle Channel	836.6	303.63	
High Channel	848.8	305.58	

Emission Bandwidth (-26dBc) for PCS1900 band			
Mode	Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
Low Channel	1850.2	306.90	
Middle Channel	1880.0	309.30	
High Channel	1909.8	308.20	

Emission Bandwidth (-26dBc) for UMTS band II		
Mode	Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)
Low Channel	1852.4	4.63
Middle Channel	1880.0	4.69
High Channel	1907.6	4.66

Emission Bandwidth (-26dBc) for UMTS band V			
Mode	Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
Low Channel	826.4	4.68	
Middle Channel	835.0	4.67	
High Channel	846.6	4.45	

Page 31 of 63

11. BAND EDGE

11.1 MEASUREMENT METHOD

The test set up and general procedure is similar to conducted peak output power test. Only different for setting the measurement configuration of the measuring instrument of Spectrum Analyzer.

11.2 PROVISIONS APPLICABLE

As Specified in FCC rules of 22.917(b) and 24.238(b)

11.3 MEASUREMENT RESULT

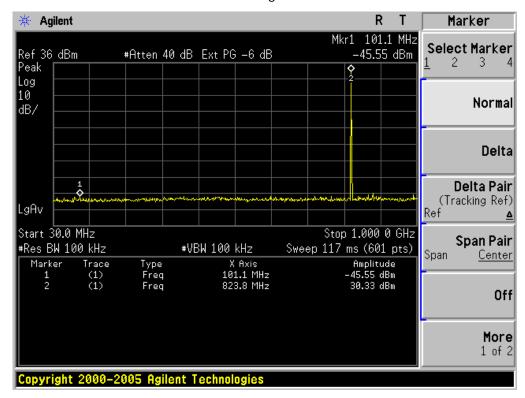
Please refers to Appendix III for compliance test plots for band edges

Page 32 of 63

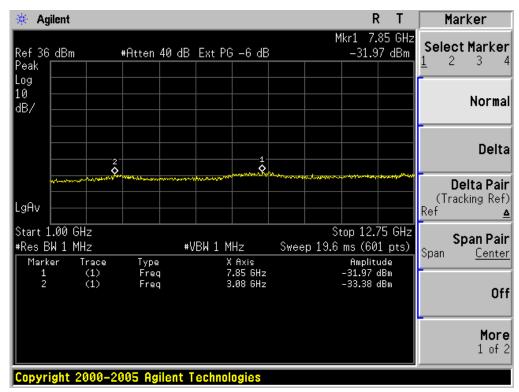
APPENDIX I TEST PLOTS FOR CONDUCTED SPURIOUS EMISSION

Page 33 of 63

CONDUCTED EMISSION IN GSM850 BAND Conducted Emission Transmitting Mode CH 128 30MHz – 1GHz

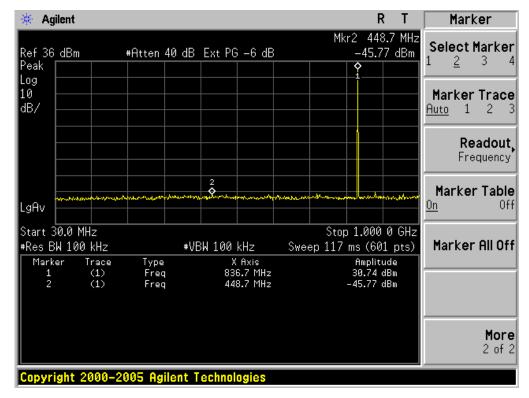


Conducted Emission Transmitting Mode CH 128 1GHz – 9GHz

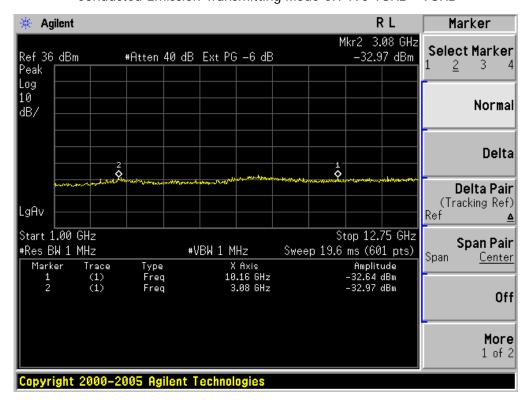


Page 34 of 63

Conducted Emission Transmitting Mode CH 190 30MHz - 1GHz

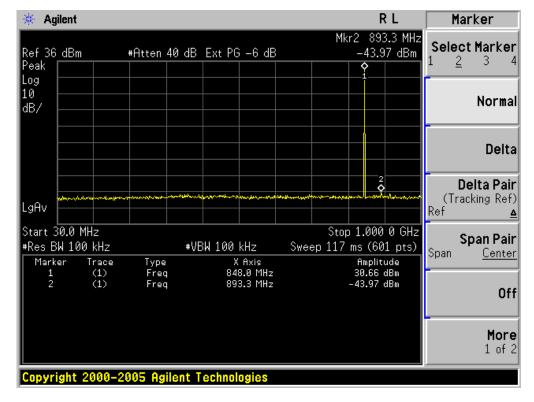


Conducted Emission Transmitting Mode CH 190 1GHz - 9GHz

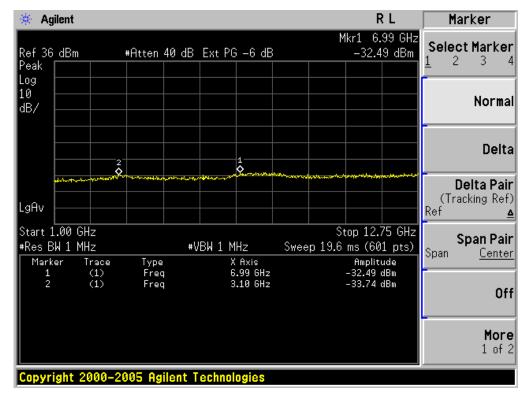


Page 35 of 63

Conducted Emission Transmitting Mode CH 251 30MHz - 1GHz

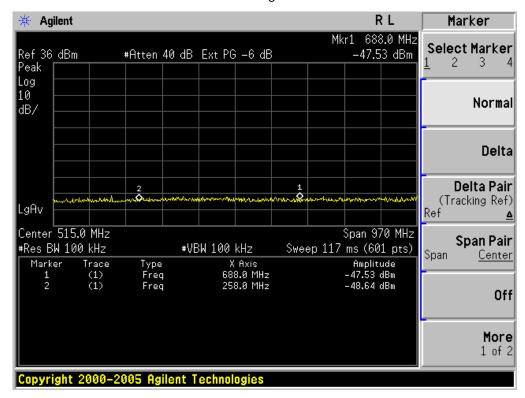


Conducted Emission Transmitting Mode CH 251 1GHz – 9GHz

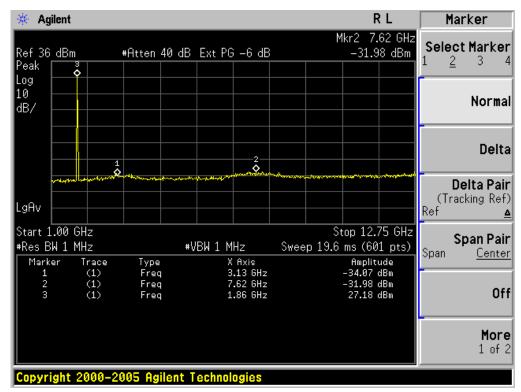


Page 36 of 63

CONDUCTED EMISSION IN PCS1900 BAND Conducted Emission Transmitting Mode CH 512 30MHz – 1GHz

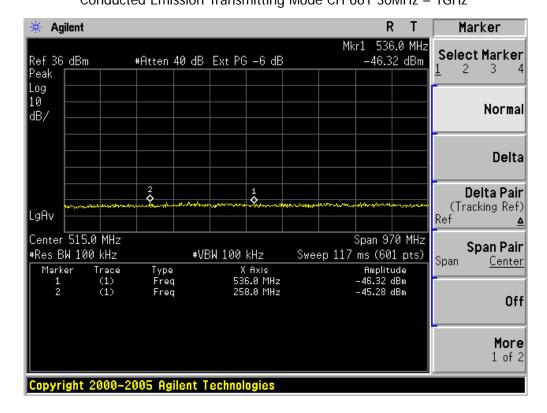


Conducted Emission Transmitting Mode CH 512 1GHz – 20GHz

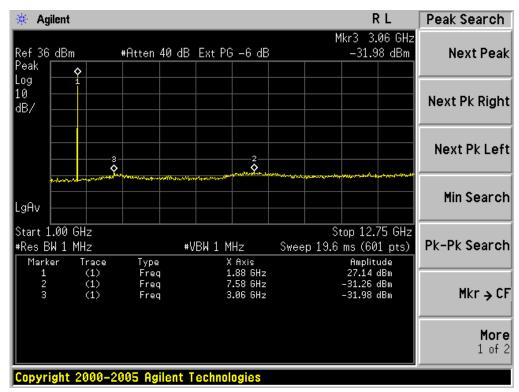


Report No.: AGC 06P120902F2A Page 37 of 63

Conducted Emission Transmitting Mode CH 661 30MHz – 1GHz

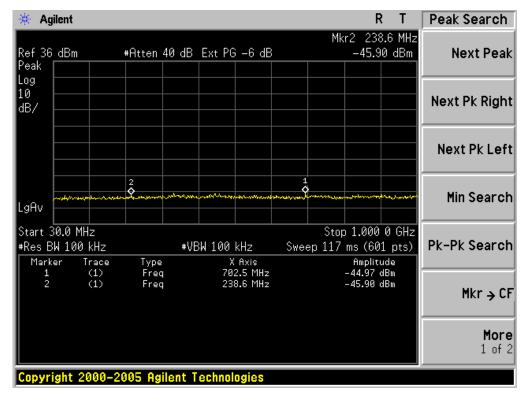


Conducted Emission Transmitting Mode CH 661 1GHz - 20GHz

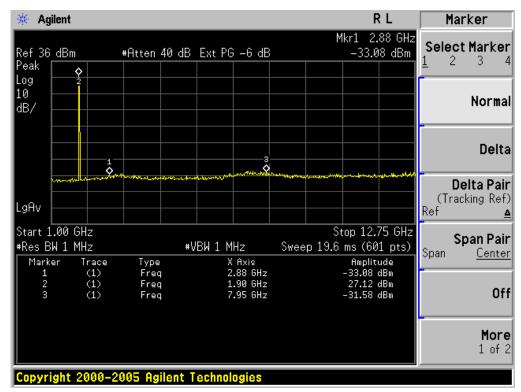


Page 38 of 63

Conducted Emission Transmitting Mode CH 810 30MHz – 1GHz

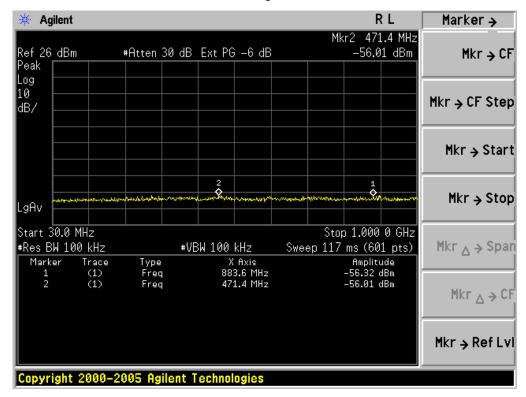


Conducted Emission Transmitting Mode CH 810 1GHz - 20GHz

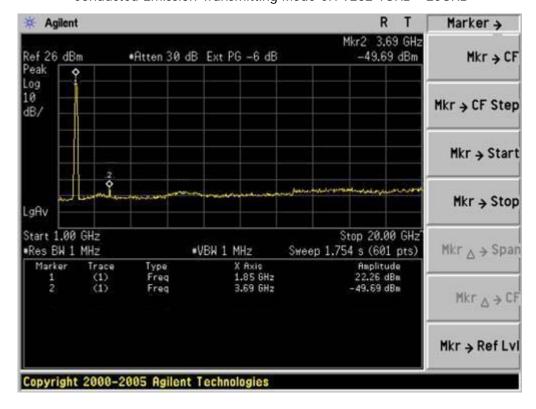


Page 39 of 63

CONDUCTED EMISSION IN UMTS band II Conducted Emission Transmitting Mode CH 9262 30MHz – 1GHz

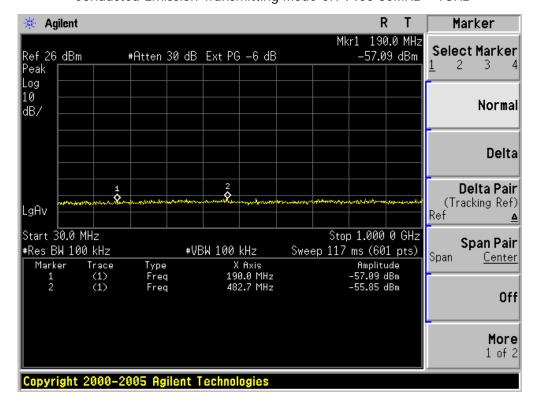


Conducted Emission Transmitting Mode CH 9262 1GHz - 20GHz

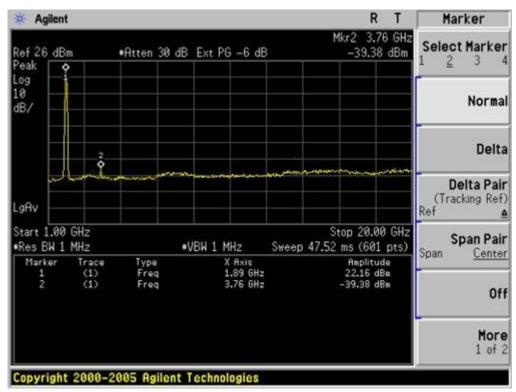


Report No.: AGC 06P120902F2A Page 40 of 63

Conducted Emission Transmitting Mode CH 9400 30MHz – 1GHz

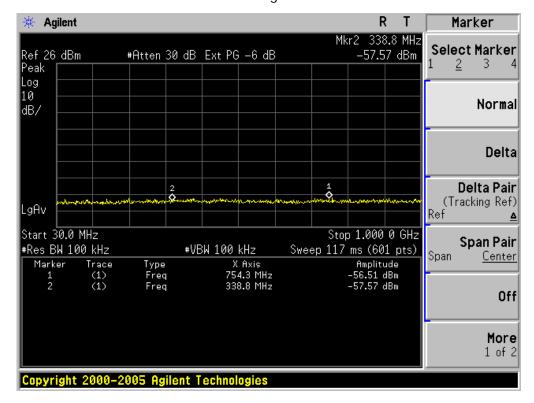


Conducted Emission Transmitting Mode CH 9400 1GHz – 20GHz

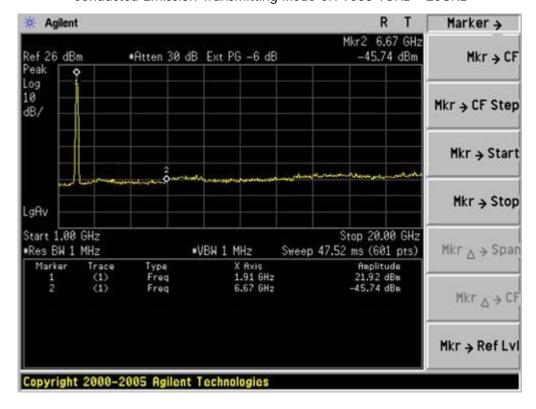


Report No.: AGC 06P120902F2A Page 41 of 63

Conducted Emission Transmitting Mode CH 9538 30MHz - 1GHz

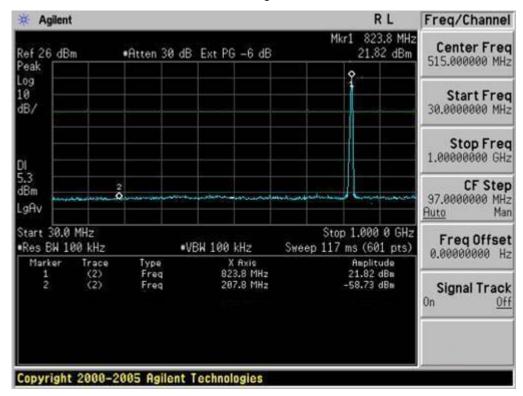


Conducted Emission Transmitting Mode CH 9538 1GHz - 20GHz

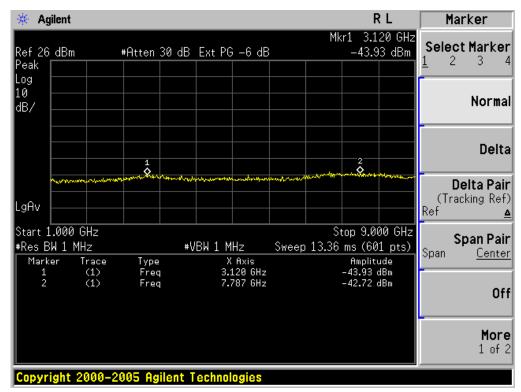


Page 42 of 63

CONDUCTED EMISSION IN UMTS band V Conducted Emission Transmitting Mode CH 4132 30MHz – 1GHz

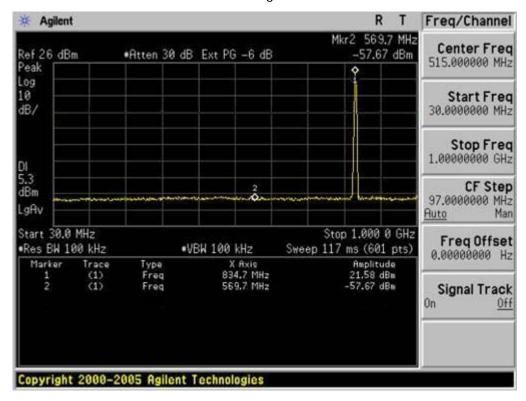


Conducted Emission Transmitting Mode CH 4132 1GHz – 9GHz

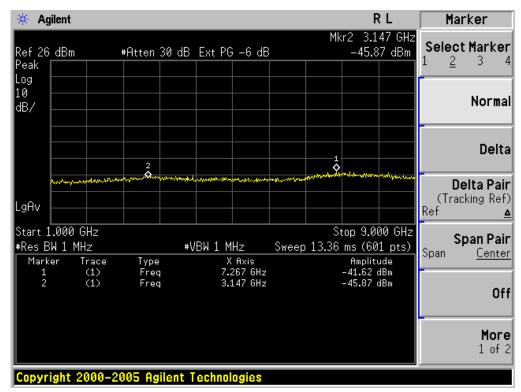


Report No.: AGC 06P120902F2A Page 43 of 63

Conducted Emission Transmitting Mode CH 4175 30MHz - 1GHz

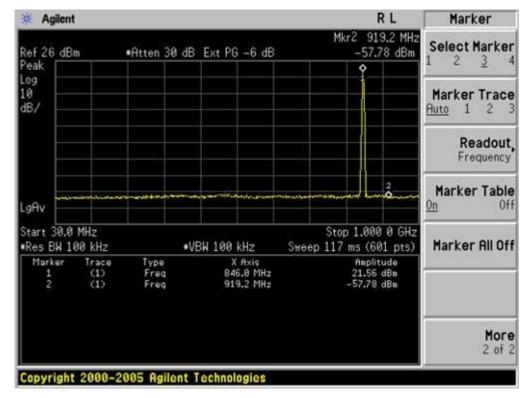


Conducted Emission Transmitting Mode CH 4175 1GHz – 20GHz

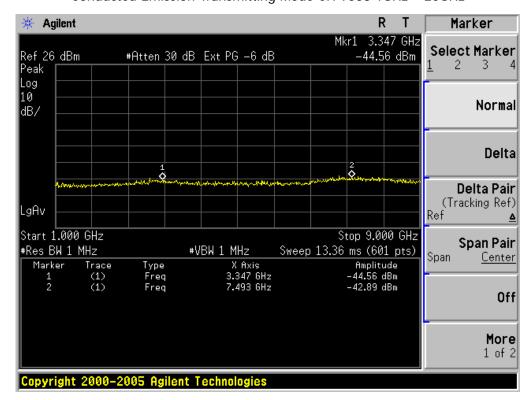


Page 44 of 63

Conducted Emission Transmitting Mode CH 9538 30MHz - 1GHz



Conducted Emission Transmitting Mode CH 9538 1GHz - 20GHz

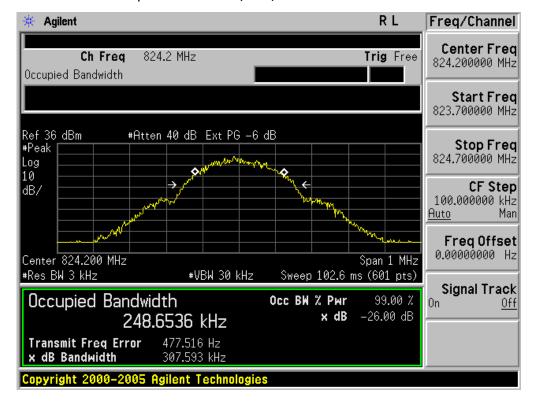


Page 45 of 63

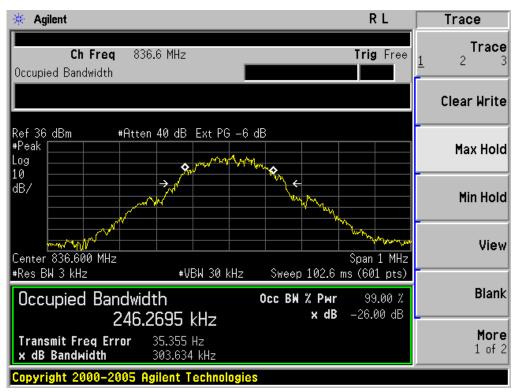
APPENDIX II TEST PLOTS FOR OCCUPIED BANDWIDTH (99%) EMISSION BANDWIDTH (-26dBC)

Page 46 of 63

Occupied Bandwidth (99%) GSM 850 BAND CH 128

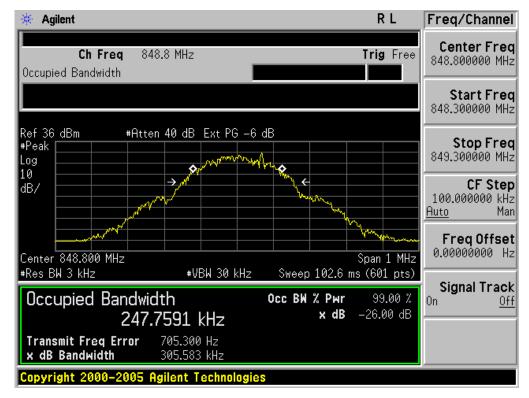


Occupied Bandwidth (99%) GSM 850 BAND CH 190

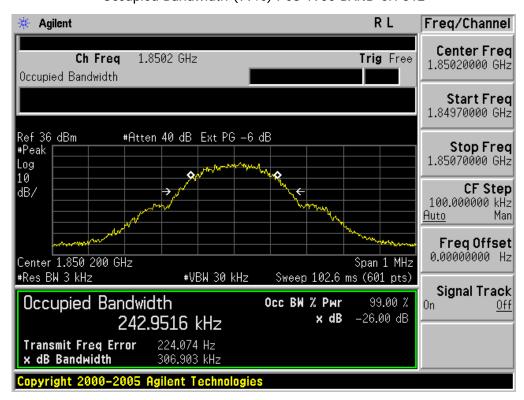


Page 47 of 63

Occupied Bandwidth (99%) GSM 850 BAND CH 251

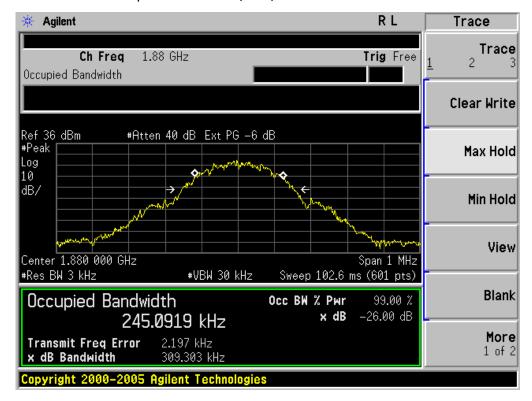


Occupied Bandwidth (99%) PCS 1900 BAND CH 512

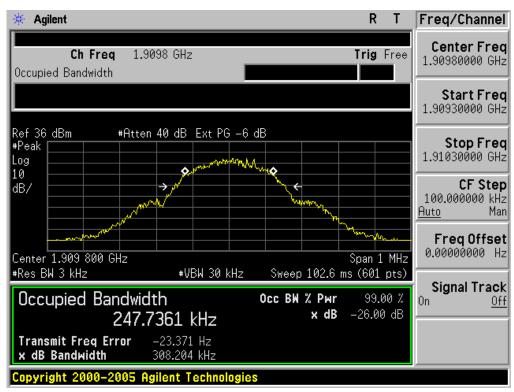


Page 48 of 63

Occupied Bandwidth (99%) PCS 1900 BAND CH 661

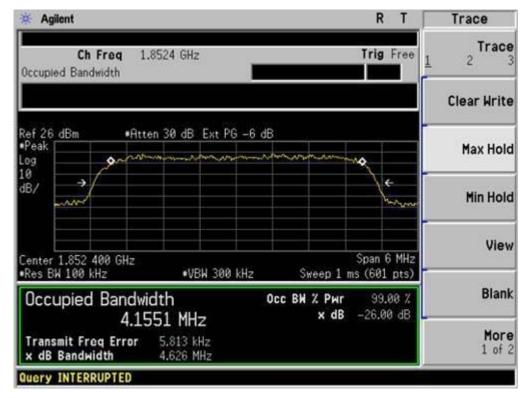


Occupied Bandwidth (99%) PCS 1900 BAND CH 810

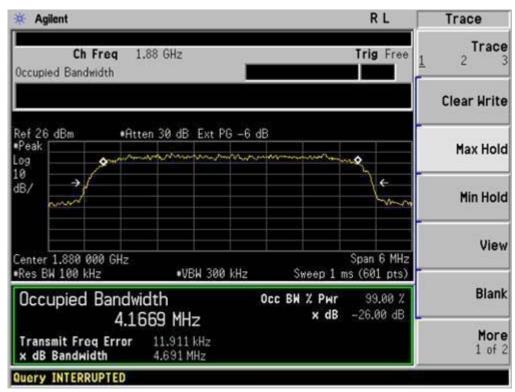


Page 49 of 63

Occupied Bandwidth (99%) UMTS band II CH 9262

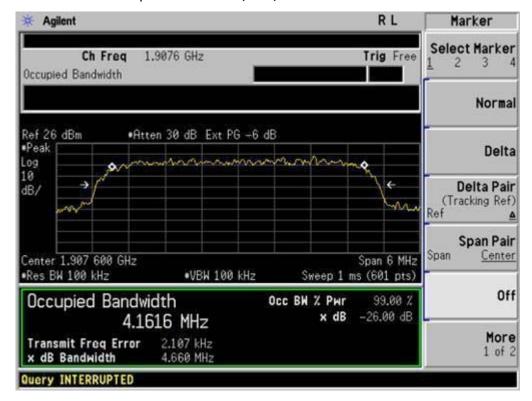


Occupied Bandwidth (99%) UMTS band II CH 9400

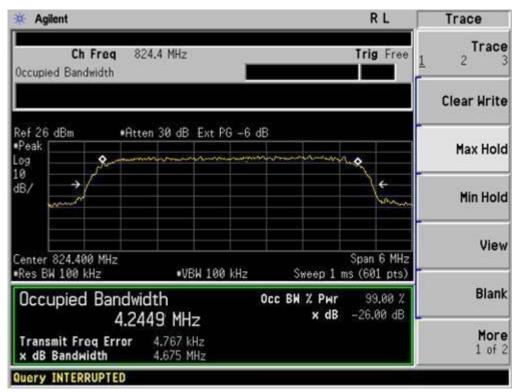


Page 50 of 63

Occupied Bandwidth (99%) UMTS band II CH 9538

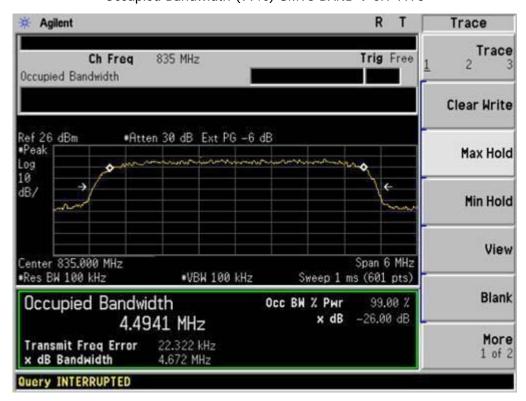


Occupied Bandwidth (99%) UMTS BAND V CH 4132

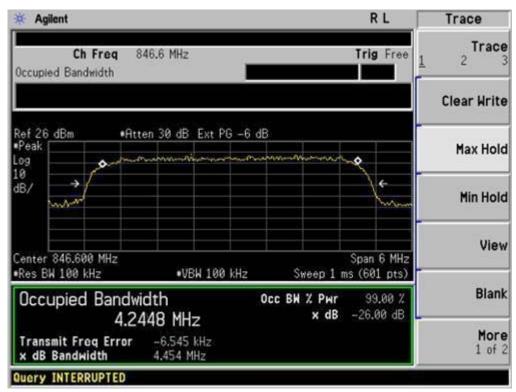


Page 51 of 63

Occupied Bandwidth (99%) UMTS BAND V CH 4175



Occupied Bandwidth (99%) UMTS BAND V CH 4233



Page 52 of 63

APPENDIX III TEST PLOTS FOR BAND EDGES

Page 53 of 63

Low Band Edge GSM 850 BAND CH 128

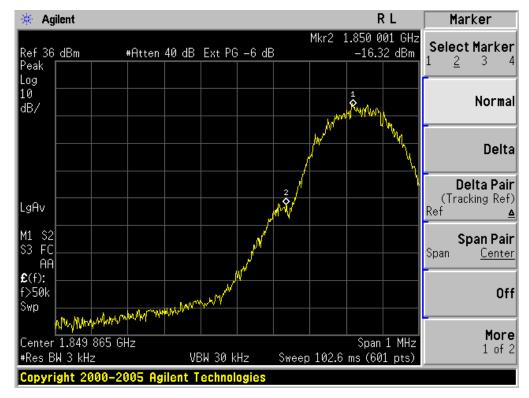


High Band Edge GSM 850 BAND CH 251

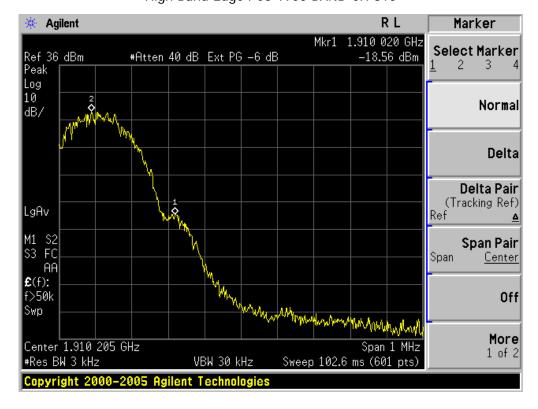


Page 54 of 63

Low Band Edge PCS 1900 BAND CH 512

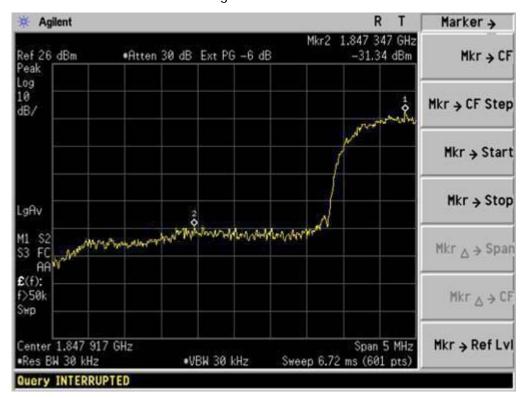


High Band Edge PCS 1900 BAND CH 810

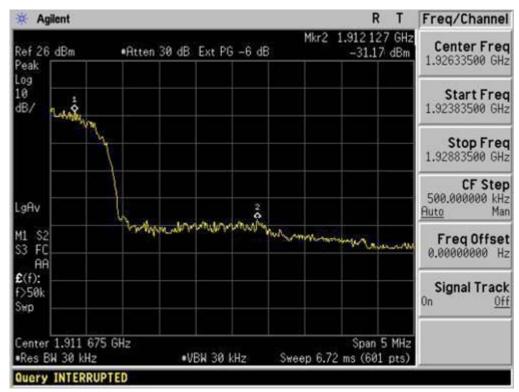


Report No.: AGC 06P120902F2A Page 55 of 63

Low Band Edge UMTS BAND II CH 9262

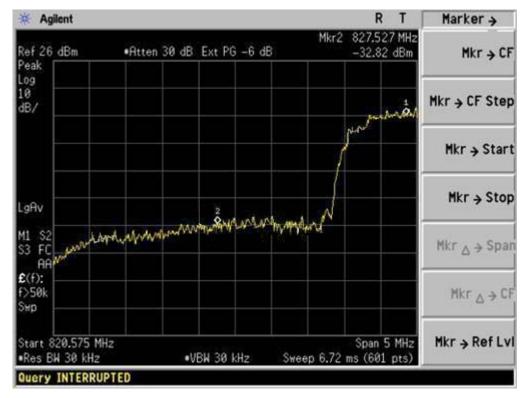


High Band Edge UMTS BAND II CH 9538

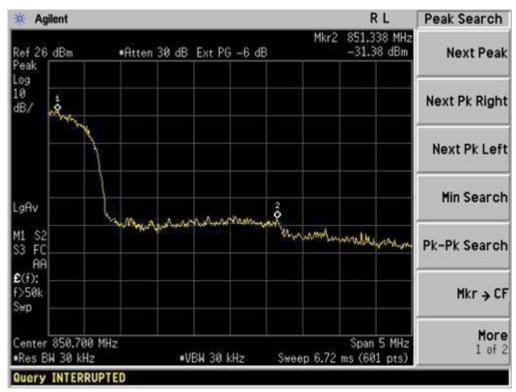


Page 56 of 63

Low Band Edge UMTS BAND V CH 4132



High Band Edge UMTS BAND II CH 9538



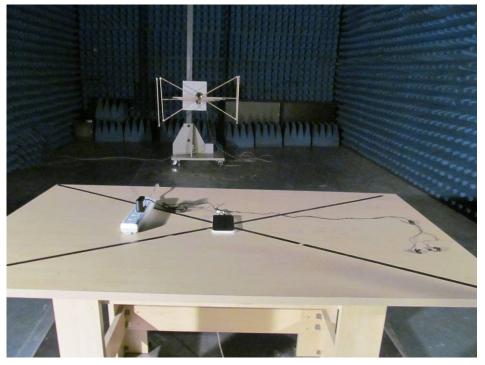
Page 57 of 63

APPENDIX IV PHOTOGRAPHS OF TEST SETUP

CONDUCTED EMISSION



RADIATED SPURIOUS EMISSION



Report No.: AGC 06P120902F2A Page 58 of 63

APPENDIX V PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT



TOP VIEW OF EUT



Page 59 of 63

BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



Page 60 of 63

BACK VIEW OF EUT

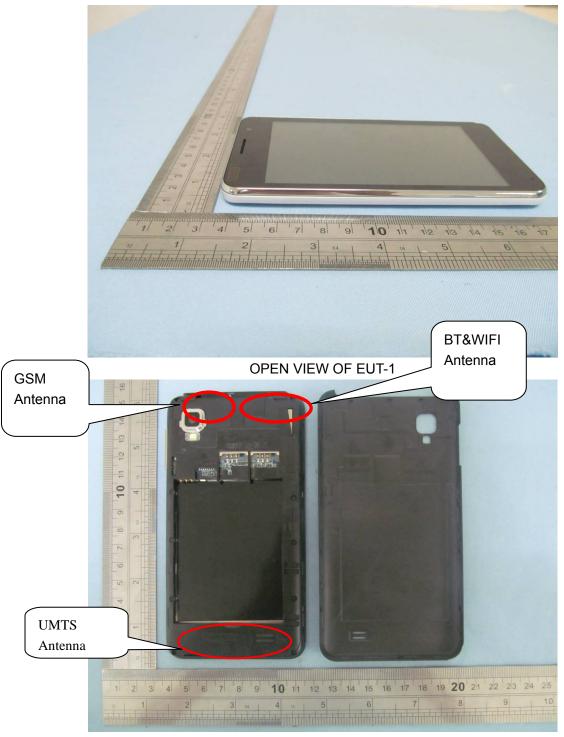


LEFT VIEW OF EUT



Page 61 of 63





Page 62 of 63

INTERNAL VIEW OF EUT-1

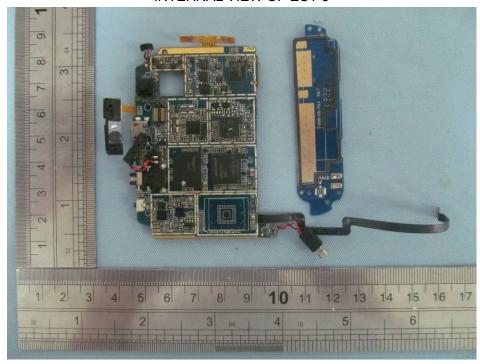


INTERNAL VIEW OF EUT-2

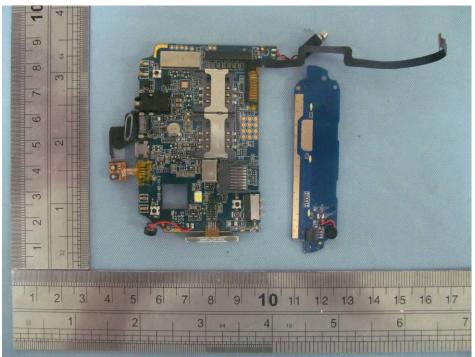


Page 63 of 63

INTERNAL VIEW OF EUT-3



INTERNAL VIEW OF EUT-4



----END OF REPORT----