



Report No: FCC 1608211-04 File reference No: 2016-09-14

Applicant: Shenzhen Jingwah Information Technology Co., Ltd.

Product: Tablet PC

Model No: M1015GR, Makka i103G

Trademark: N/A

Test Standards: FCC 47 CFR Part 2, 22(H), 24(E)

Test result: It is herewith confirmed and found to comply with the

requirements set up by ANSI C63.4, FCC Part 22H and 24E

for the evaluation of electromagnetic compatibility

Approved By

Jack Chung

Jack Chung Manager

Dated: September 14, 2016

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Room 512-519, 5/F., East Tower, Building 4, Anhua Industrial Zone, Futian District, Shenzhen, Guangdong, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com

Date: 2016-09-14



Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

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The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAL. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAL-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAL/AC01:2002 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:1999 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 899988

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 899988.

IC- Registration No.: IC5205A-02

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-02.



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any other remedies which may be appropriate.

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1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.

Address: Room 512-519,5/F., East Tower, Building 4, Anhua Industrial Zone, Futian

District, Shenzhen, Guangdong China

Telephone: (755) 83448688 Fax: (755) 83442996

Site on File with the Federal Communications Commission – United Sates

Registration Number: 899988

For 3m & 10 m OATS

Site Listed with Industry Canada of Ottawa, Canada

Registration Number: IC: 5205A-02

For 3m & 10 m OATS

1.2 Applicant Details

Applicant: Shenzhen Jingwah Information Technology Co., Ltd.

Address: 4F, Bldg 4, Jinghua Square, No.1 Huafa North Road, Futian District, Shenzhen, China

Telephone: --Fax: --

1.3 Description of EUT

Product: Tablet PC

Manufacturer: Shenzhen Jingwah Information Technology Co., Ltd.

Address: 4F, Bldg 4, Jinghua Square, No.1 Huafa North Road, Futian

District, Shenzhen, China

Brand Name: N/A
Model Number: M1015GR
Additional Model Number: Makka i103G

Tx Frequency GSM850 : 824.2 MHz ~ 848.8 MHz

GSM1900 : 1850.2 MHz ~ 1909.8 MHz WCDMA Band V : 826.4 MHz ~ 846.6 MHz WCDMA Band II : 1852.4 MHz ~ 1907.6 MHz

Rx Frequency GSM850: 869.2 MHz ~ 893.8 MHz

GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz

Maximum Output Power to Antenna GSM850 : 32.85dBm

GSM1900 : 29.22 dBm

WCDMA Band V: 21.61 dBm WCDMA Band II: 20.99 dBm

Antenna Type Integral Antenna

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Antenna Peak Gain 824 ~ 849 MHz : 1.12 dBi

1850~1910 MHz: 1.75dBi

Type of Modulation GSM / GPRS : GMSK

EDGE: GMSK/8PSK

WCDMA: QPSK

HSDPA: QPSK / 16QAM

HSUPA: QPSK

EMISSION DESIGNATOR GSM: 254KGXW

EGPRS: 253KG7W

WCDMA: 4M11F9W
Dual Card SIM Card 1: WCDMA/GSM Card Slot

SMI Card 2: GSM Card Slot

Note: Card 1 can't transmit with Card 2 simultaneously.

FCC ID: RBD-M1015GR

1.4 Submitted Sample: 2 Samples

1.5 Test Duration

2016-08-30 to 2016-09-14

1.6 Test Uncertainty

Conducted Emissions Uncertainty = 3.6dB Radiated Emissions Uncertainty = 4.7dB

1.7 Test Engineer

The sample tested by

Print Name: Terry Tang

Date: 2016-09-14



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	§2.1046	Conducted Output Power	N/A	PASS	-
3.2	§22.913(a)(2)	Effective Radiated Power	< 7 Watts	PASS	-
3.2	§24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
3.3	\$2.1049 \$22.917(a) \$24.238(a)	Occupied Bandwidth	N/A	PASS	-
3.4	\$2.1051 \$22.917(a) \$24.238(a)	Band Edge Measurement	< 43+10log10(P[Watts])	PASS	-
3.5	\$2.1051 \$22.917(a) \$24.238(a)	Conducted Emission	< 43+10log10(P[Watts])	PASS	-
3.6	\$2.1053 \$22.917(a) \$24.238(a)	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	-
3.7	\$2.1055 \$22.355 \$24.235	Frequency Stability for Temperature & Voltage	< 2.5 ppm	PASS	-
3.8	§24.232(d)	Peak-to-Average Ratio	< 13 dB	PASS	-
3.9	Part 15B	Main Conducted Emissions	See part 15.107 and 207	PASS	-

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2 Test Configuration of Equipment Under Test

2.1 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range. Frequency range investigated for radiated emission is as follows:

1. 30 MHz to 9000 MHz for GSM850 and WCDMA Band V.

30 MHz to 19000 MHz for GSM1900 and WCDMA Band II.

Test Modes							
Band	Radiated TCs	Conducted TCs					
CCM 950	■ GSM Link	■ GSM Link					
GSM 850	■ EDGE 8 Link	■ EDGE 8 Link					
CCM 1000	■ GSM Link	■ GSM Link					
GSM 1900	■ EDGE 8 Link	■ EDGE 8 Link					
WCDMA Band V	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link					
WCDMA Band II	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link					

Note: The maximum power levels are GSM mode for GMSK link, EDGE multi-slot class 8 mode for 8PSK link, RMC 12.2Kbps mode for WCDMA band V, and RMC 12.2Kbps mode for WCDMA band II, only these modes were used for all tests.

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The conducted power tables are as follows: For SIM Card 1

Conducted Power (*Unit: dBm)								
Band		GSM850			GSM1900			
Channel	128	190	251	512	661	810		
Frequency	824.2	836.6	848.8	1850.2	1880.0	1909.8		
GSM	31.87	31.83	31.75	28.77	28.58	28.62		
GPRS 8	32.65	32.61	32.52	29.22	29.07	29.16		
GPRS 10	31.70	31.62	31.53	28.41	28.27	28.33		
GPRS 12	30.12	30.02	29.86	26.73	26.57	26.64		
EGPRS 8	28.87	28.79	28.72	25.29	25.11	25.15		
EGPRS 10	27.26	27.20	27.13	24.06	23.92	24.03		
EGPRS 12	26.52	26.45	26.36	23.35	23.20	23.25		

Conducted Power (*Unit: dBm)									
Band	W	CDMA Band	V	WCDMA Band II					
Channel	4132	4183	4233	9262	9400	9538			
Frequency	826.4	836.6	846.6	1852.4	1880.0	1907.6			
RMC 12.2K	21.44	21.61	21.56	20.99	20.61	20.78			
HSDPA Subtest-1	21.36	21.52	21.49	20.85	20.56	20.67			
HSDPA Subtest-2	21.22	21.30	21.28	20.55	20.24	20.35			
HSDPA Subtest-3	21.12	21.19	21.16	20.38	20.10	20.23			
HSDPA Subtest-4	21.23	21.35	21.27	20.64	20.37	20.46			
HSUPA Subtest-1	20.76	20.83	20.80	20.63	20.41	20.50			
HSUPA Subtest-2	20.63	20.75	20.65	20.71	20.56	20.59			
HSUPA Subtest-3	20.43	20.58	20.50	20.43	20.19	20.28			
HSUPA Subtest-4	20.29	20.41	20.39	20.52	20.27	20.38			
HSUPA Subtest-5	20.57	20.70	20.63	20.23	20.02	20.10			

adopt any other remedies which may be appropriate.

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The conducted power tables are as follows: For SIM Card 2 (Only support GSM)

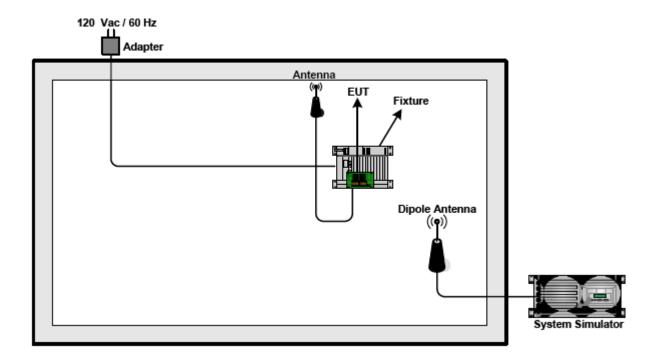
Conducted Power (*Unit: dBm)								
Band		GSM850			GSM1900			
Channel	128	190	251	512	661	810		
Frequency	824.2	836.6	848.8	1850.2	1880.0	1909.8		
GSM	31.67	31.51	31.41	28.70	28.56	28.50		
GPRS 8	32.49	32.37	32.33	29.12	28.90	28.83		
GPRS 10	31.53	31.40	31.35	28.32	28.17	28.14		
GPRS 12	28.61	28.52	28.43	25.56	25.41	25.30		
EGPRS 8	27.22	27.08	27.11	24.18	24.03	23.97		
EGPRS 10	26.29	26.22	26.23	23.67	23.52	23.50		
EGPRS 12	23.34	23.30	23.19	21.76	21.63	21.56		

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2.2 Connection Diagram of Test System



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3 Test Result

3.1 Conducted Output Power Measurement

3.1.1 Description of the Conducted Output Power Measurement

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals shall be reported.

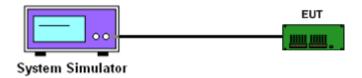
3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedures

- 1. The transmitter output port was connected to base station.
- 2. Set EUT at maximum power through base station.
- 3. Select lowest, middle, and highest channels for each band and different modulation.

3.1.4 Test Setup



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3.1.5 Test Result of Conducted Output Power

Cellular Band								
Modes	Channel Frequency (MHz)		Conducted Power (dBm)	Conducted Power (Watts)				
	128 (Low)	824.2	32.65	1.841				
GSM850 (GSM)	190 (Mid)	836.6	32.61	1.824				
	251 (High)	848.8	32.52	1.786				
	128 (Low)	824.2	27.26	0.532				
GSM850 (EDGE 8)	190 (Mid)	836.4	27.20	0.525				
	251 (High)	848.8	27.13	0.516				
	4132 (Low)	826.4	21.44	0.139				
WCDMA Band V (RMC 12.2Kbps)	4183 (Mid)	836.6	21.61	0.145				
	4233 (High)	846.6	21.56	0.143				

PCS Band								
Modes	Channel Frequency (MHz)		Conducted Power (dBm)	Conducted Power (Watts)				
	512 (Low)	1850.2	29.22	0.836				
GSM1900 (GSM)	661 (Mid)	1880.0	29.07	0.807				
	810 (High)	1909.8	29.16	0.824				
	512 (Low)	1850.2	24.06	0.255				
GSM1900 (EDGE 8)	661 (Mid)	1880.0	23.92	0.247				
	810 (High)	1909.8	24.03	0.253				
	9262 (Low)	1852.4	20.99	0.126				
WCDMA Band II (RMC 12.2Kbps)	9400 (Mid)	1880.0	20.61	0.115				
	9538 (High)	1907.6	20.78	0.120				

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3.2 Effective Radiated Power and Effective Isotropic Radiated Power Measurement

3.2.1 Description of the ERP/EIRP Measurement

The substitution method, in ANSI / TIA / EIA-603-C-2004, was used for ERP/EIRP measurement, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v02r01. The ERP of mobile transmitters must not exceed 7 Watts and the EIRP of mobile transmitters are limited to 2 Watts.

3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 Test Procedures

- 1. The EUT was placed on a turntable with 1.5 meter height in a fully anechoic chamber.
- The EUT was set at 3 meters from the receiving antenna, which was mounted on the antenna tower.
- GSM operating modes: Set RBW= 1MHz, VBW= 3MHz, RMS detector over burst;
 UMTS operating modes: Set RBW= 100 kHz, VBW= 300 kHz, RMS detector over frame, and use channel power option with bandwidth=5MHz, per KDB 971168 D01.
- 4. The table was rotated 360 degrees to determine the position of the highest radiated power.
- 5. The height of the receiving antenna is adjusted to look for the maximum ERP/EIRP.
- 6. Taking the record of maximum ERP/EIRP.
- 7. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
- 8. The conducted power at the terminal of the dipole antenna is measured.
- 9. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
- 10. ERP/EIRP = Ps + Et Es + Gs = Ps + Rt Rs + Gs

Ps (dBm): Input power to substitution antenna.

Gs (dBi or dBd): Substitution antenna Gain.

Et = Rt + AF

Es = Rs + AF

AF (dB/m): Receive antenna factor

Rt: The highest received signal in spectrum analyzer for EUT.

Rs: The highest received signal in spectrum analyzer for substitution antenna.

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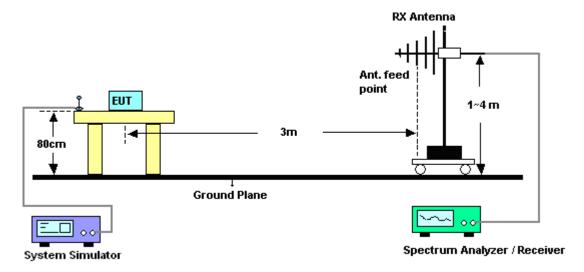
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3.2.4 **Test Setup**



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3.3.5 Test Result of ERP

GSM850 (GSM) Radiated Power ERP								
Frequency (MHz)		ERP (dBm) ERP (W) Polarization Polarization		Result				
	Н	V	Н	V				
824.20	28.59	27.87	0.723	0.612	Pass			
836.60	28.52	27.78	0.711	0.600	Pass			
848.80	28.46	27.65	0.701	0.582	Pass			

GSM850 (EDGE8) Radiated Power ERP								
Frequency	`	(dBm)	ERP (W)		Result			
(IVITZ)	(MHz) Polarization Polarization		ation					
	Н	V	Н	V				
824.20	23.28	22.07	0.213	0.161	Pass			
836.60	23.19	22.02	0.208	0.159	Pass			
848.80	23.16	21.95	0.207	0.157	Pass			

WCDMA Band V (RMC 12.2Kbps) Radiated Power ERP								
Frequency ERP (dBm) (MHz) Polarization		ERP (Result					
	Н	V	Н	V				
826.40	18.18	17.63	0.066	0.058	Pass			
836.60	18.30	17.72	0.068	0.059	Pass			
846.60	18.22	17.66	0.066	0.058	Pass			

adopt any other remedies which may be appropriate.

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3.3.6 Test Result of EIRP

GSM1900 (GSM) Radiated Power EIRP									
Frequency (MHz)	EIRP (dBm) Polarization		EIRP Polariz	Result					
	Н	V	Н	V					
1850.20	27.23	26.55	0.528	0.452	Pass				
1880.00	27.09	26.38	0.512	0.435	Pass				
1909.80	27.15	26.41	0.519	0.438	Pass				

GSM1900 (EDGE class 8) Radiated Power EIRP							
Frequency (MHz)		(dBm) ization	EIRP Polariz	Result			
	Н	V	Н	V			
1850.20	22.07	21.17	0.161	0.131	Pass		
1880.00	21.86	21.02	0.153	0.126	Pass		
1909.80	21.96	21.10	0.157	0.129	Pass		

WCDMA Band II (RMC 12.2Kbps) Radiated Power EIRP							
Frequency	EIRP (dBm)		EIRP	Result			
(MHz)	Polari	zation	Polariza				
	Н	V	Н	V			
1852.40	19.49	18.77	0.089	0.075	Pass		
1880.00	19.05	18.38	0.080	0.069	Pass		
1907.60	19.28	18.63	0.085	0.073	Pass		

adopt any other remedies which may be appropriate.

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3.3 Occupied Bandwidth Measurement

3.3.1 Description of Occupied Bandwidth Measurement

The 99% occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The emission bandwidth is defined as the width of the signal between two points, located at the 2 sides of the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

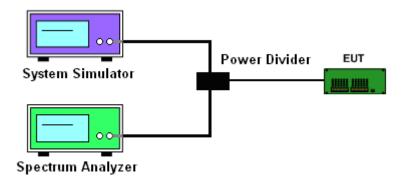
3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

3.3.3 Test Procedures

- 1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. The 99% occupied bandwidth were measured, set RBW= 1% of span, VBW= 10*RBW, Peak detector, trace maximum hold.
- 4. The 26dB bandwidth were measured, set RBW= 1% of EBW, VBW= 3*RBW, peak detector, trace maximum hold.

3.3.4 Test Setup



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3.4.5 Test Result of Occupied Bandwidth and 26dB Bandwidth

Cellular Band							
Modes	GSM850 (GSM)			GSM850 (EDGE class 8)			
O	128	190	251	128	190	251	
Channel	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	
Frequency (MHz)	824.2	836.6	848.8	824.2	836.6	848.8	
99% OBW (kHz)	235.26	245.54	247.95	233.94	246.31	245.96	
26dB BW (kHz)	313.09	317.43	321.94	312.66	323.70	321.12	

PCS Band						
Modes	GS	6M1900 (GS	M)	GSM1900 (EDGE class 8)		
Channel	512	661	810	512	661	810
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8
99% OBW (kHz)	247.71	246.18	254.11	239.65	252.08	252.70
26dB BW (kHz)	315.10	313.73	327.74	312.50	320.39	324.16

Cellular Band							
Modes	WCDMA Band V (RMC 12.2Kbps)						
Channel	4132 (Low) 4182 (Mid) 4233 (High)						
Frequency (MHz)	826.4	836.4	846.6				
99% OBW (MHz)	4.05	4.08	4.03				
26dB BW (MHz)	4.58	4.63	4.61				

PCS Band							
Modes	WCDMA Band II (RMC 12.2Kbps)						
Channel	9262 (Low) 9400 (Mid) 9538 (High)						
Frequency (MHz)	1852.4	1880	1907.6				
99% OBW (MHz)	4.11	4.06	4.08				
26dB BW (MHz)	4.70	4.67	4.65				

The report refers only to the sample tested and does not apply to the bulk.

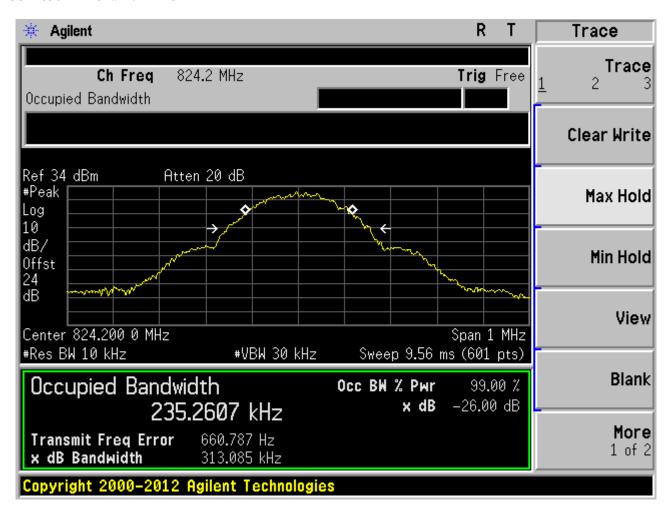
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Date: 2016-09-14



3.4.6 Test Result (Plots) of Occupied Bandwidth and 26dB Bandwidth

GSM 850MHz Channel = 128



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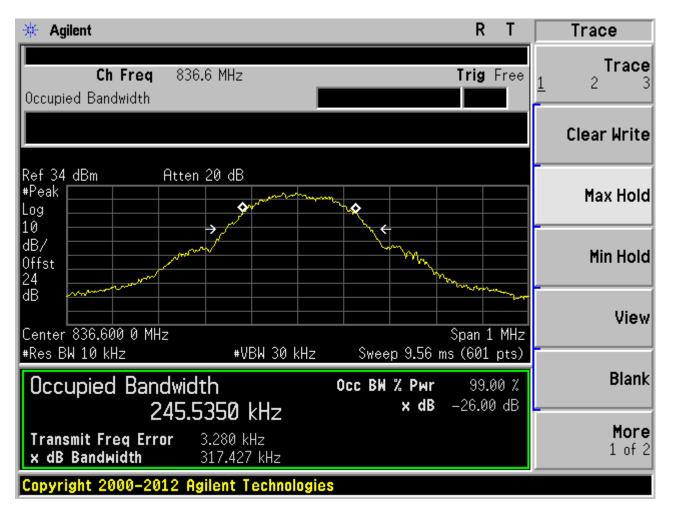
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Report No.: FCC1608211-04

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GSM 850MHz Channel = 190



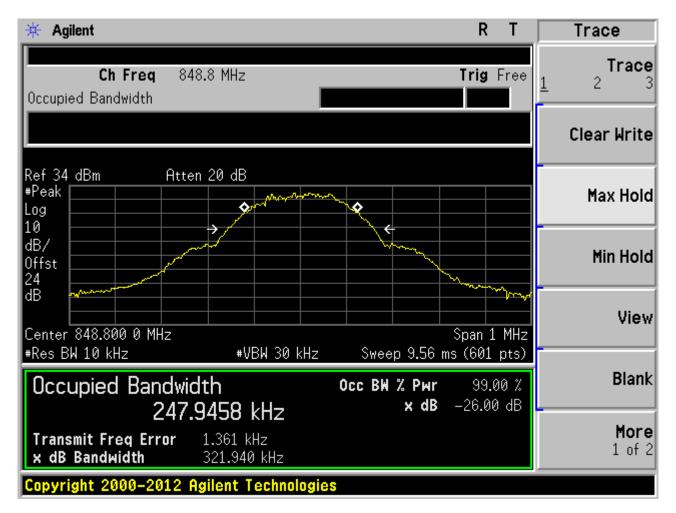
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GSM 850MHz Channel = 251



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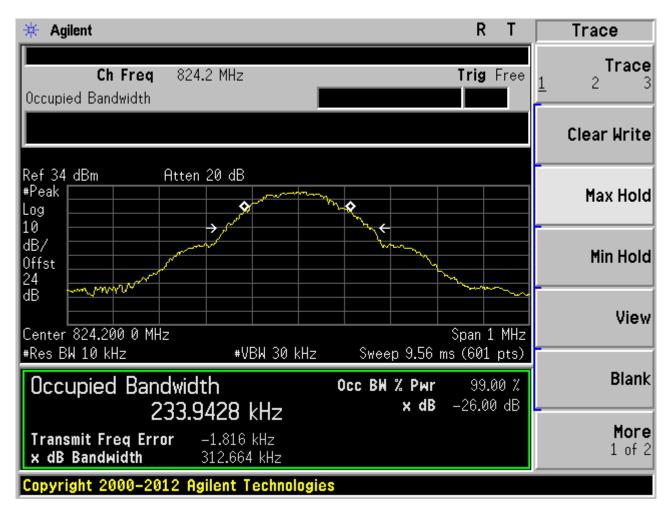
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Date: 2016-09-14



GSM850 EDGE Class8 Channel = 128



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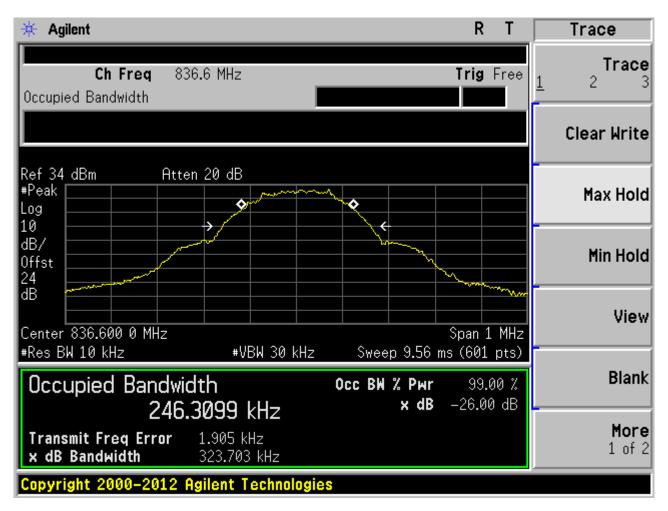
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Date: 2016-09-14



GSM850 EDGE Class8 EDGE Channel = 190



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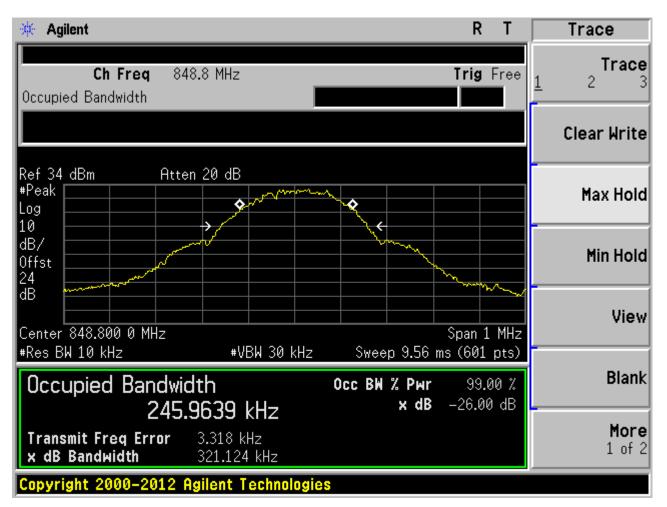
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GSM850 EDGE Class8 EDGE Channel = 251

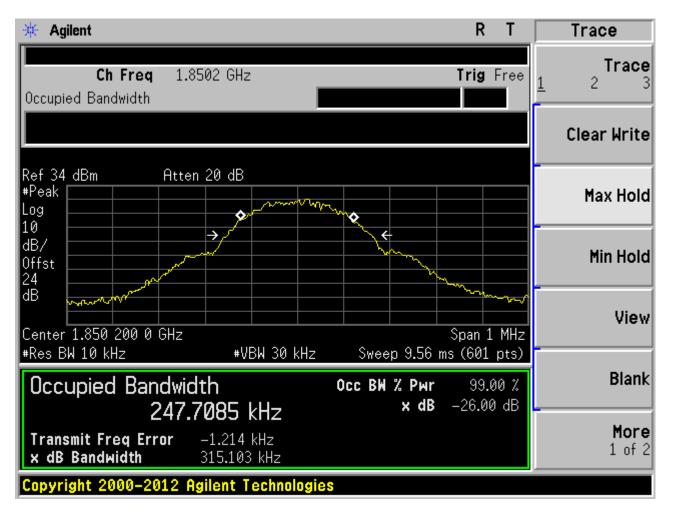


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GSM 1900MHz Channel = 512



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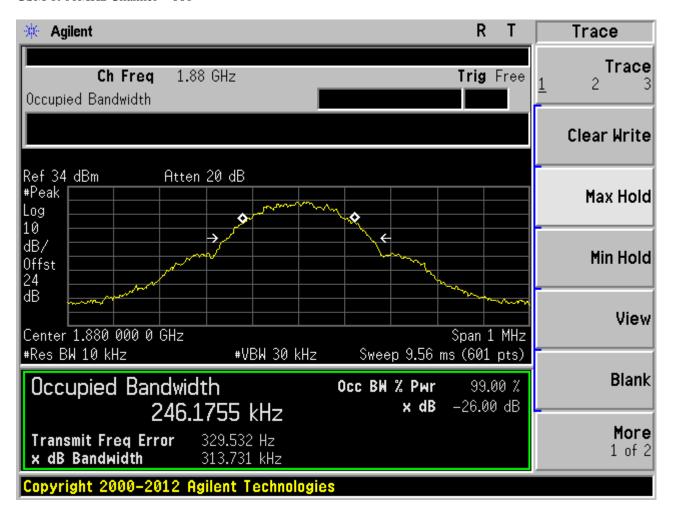
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Date: 2016-09-14



GSM 1900MHz Channel = 661



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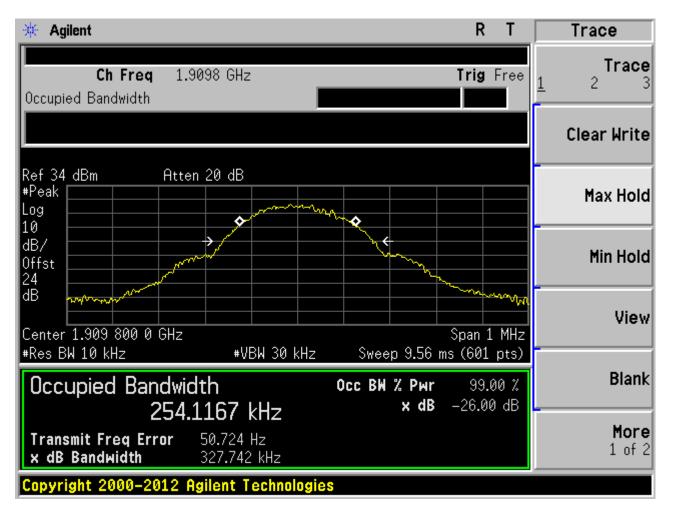
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Date: 2016-09-14



GSM 1900MHz Channel = 810



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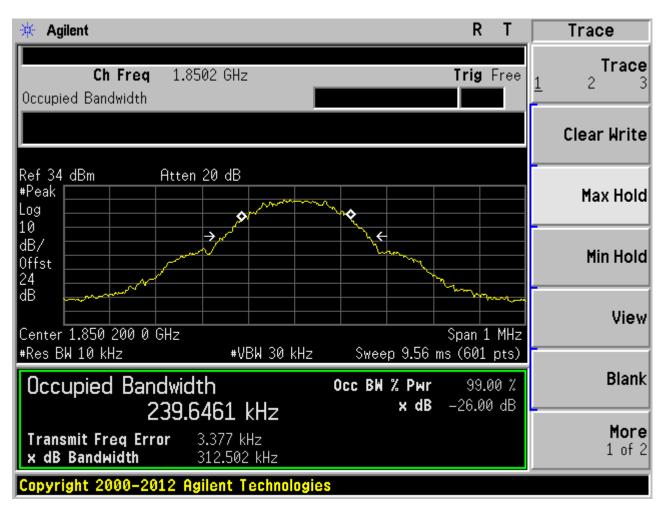
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Report No.: FCC1608211-04

Date: 2016-09-14



GSM1900 EDGE Class8 Channel =512



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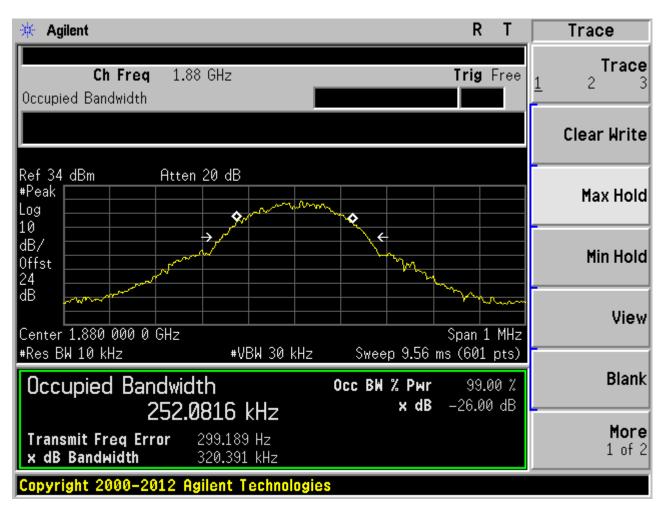
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GSM1900 EDGE Class8 Channel =661



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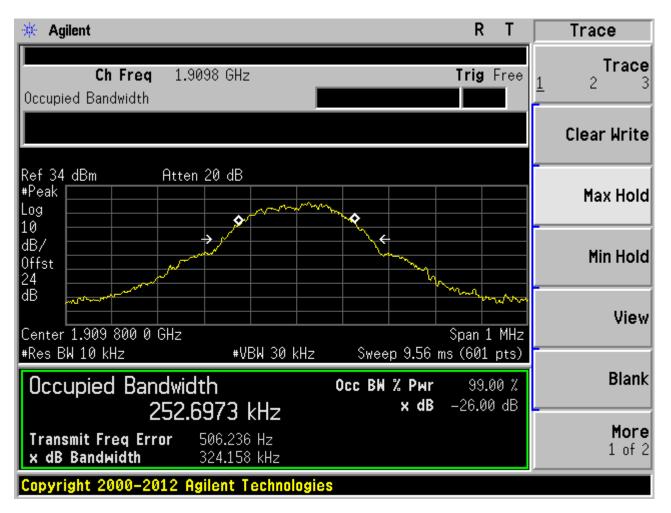
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GSM1900 EDGE Class8 Channel =810

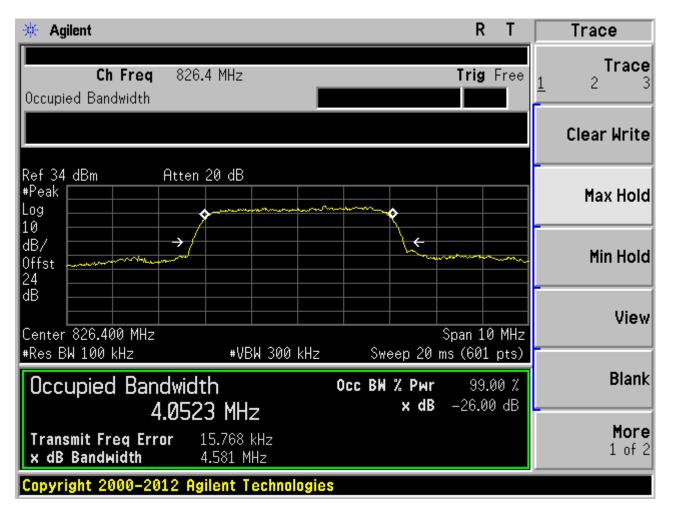


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Date: 2016-09-14



WCDMA 850MHz Channel = 4132

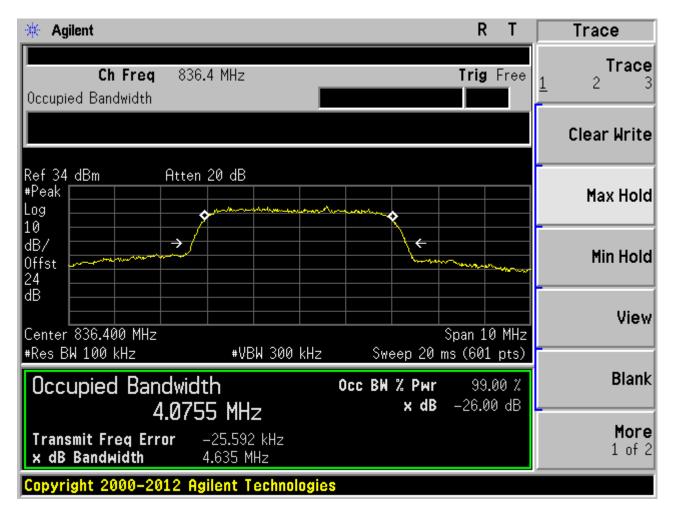


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WCDMA 850MHz Channel = 4182



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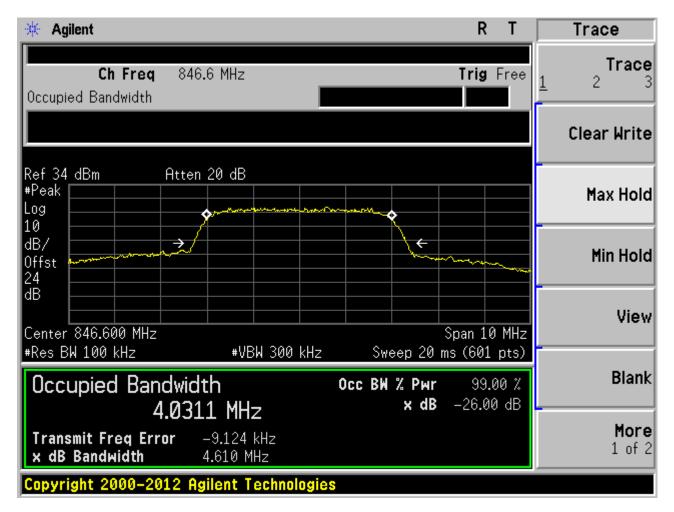
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WCDMA 850MHz Channel = 4233



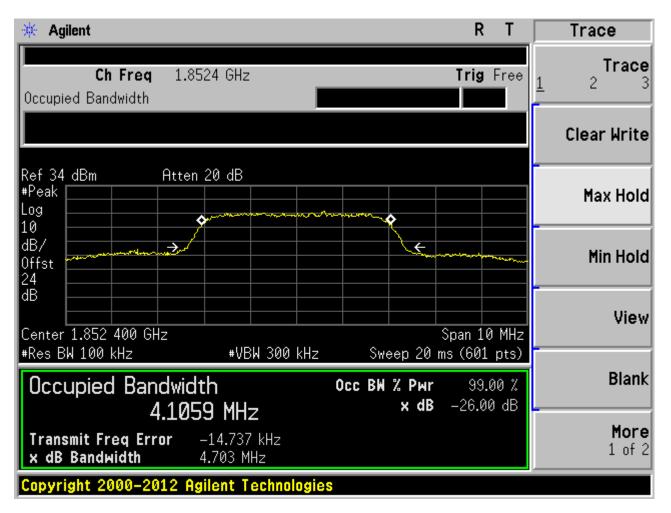
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WCDMA 1900MHz Channel = 9262

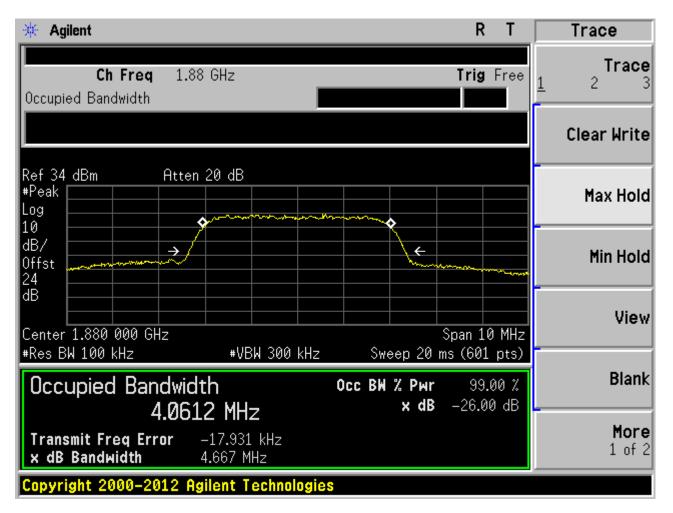


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WCDMA 1900MHz Channel = 9400

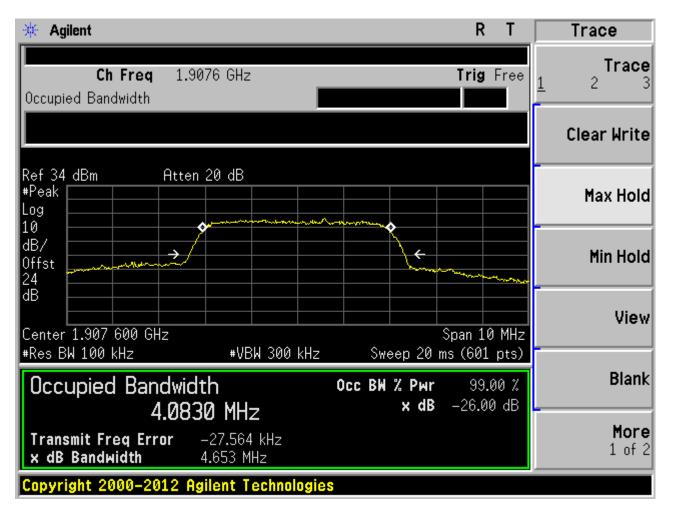


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WCDMA 1900MHz Channel = 9538



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3.4 Band Edge Measurement

3.4.1 Description of Band Edge Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

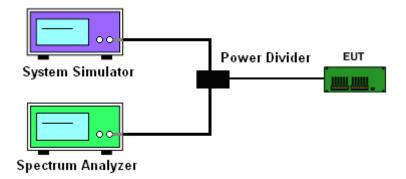
3.4.2 Measuring Instruments

See list of measuring instruments of this test report.

3.4.3 Test Procedures

- 1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
- The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
 The path loss was compensated to the results for each measurement.
- The band edges of low and high channels for the highest RF powers were measured. Setting RBW as roughly BW/100.
- The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 5. The limit line is derived from 43 + 10log (P) dB below the transmitter power P(Watts)
 - = P(W) [43 + 10log(P)] (dB)
 - = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
 - = -13dBm.

3.4.4 Test Setup



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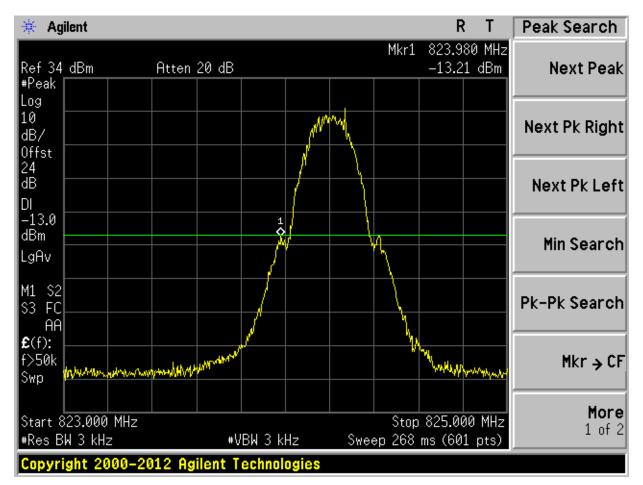
Date: 2016-09-14



3.4.5 Test Result (Plots) of Conducted Band Edge

Band:	GSM850	Power Stage :	High
Test Mode :	GSM Link		

Lower Band Edge Plot on Channel 128



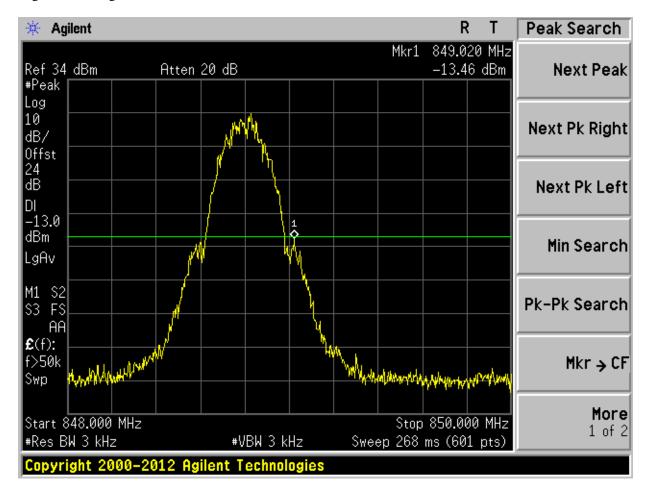
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Higher Band Edge Plot on Channel 251

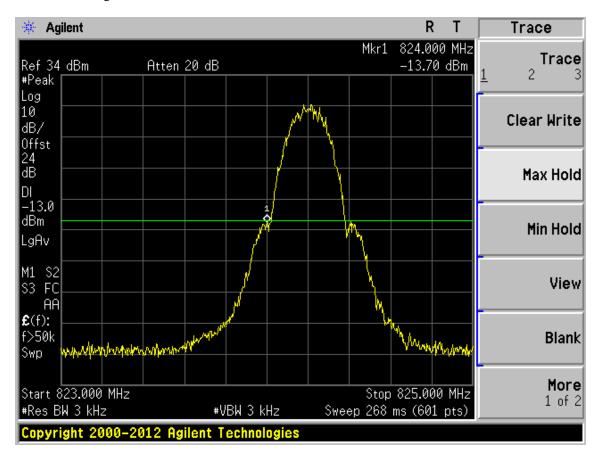


Date: 2016-09-14



Band:	GSM850	Power Stage:	High
Test Mode:	EDGE Class 8 Link		

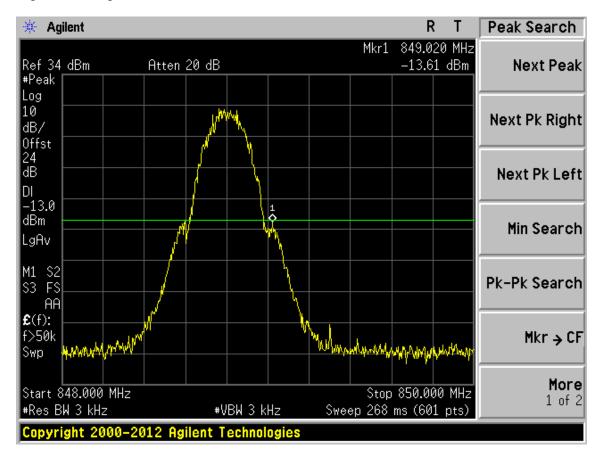
Lower Band Edge Plot on Channel 128



Date: 2016-09-14



Higher Band Edge Plot on Channel 251



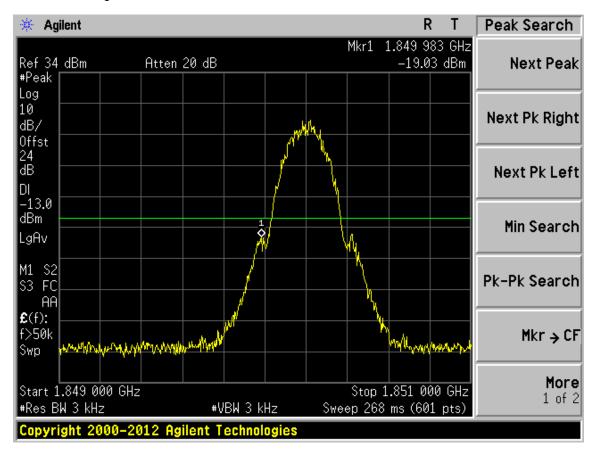
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Date: 2016-09-14



Band:	GSM1900	Power Stage :	High
Test Mode :	GSM Link		

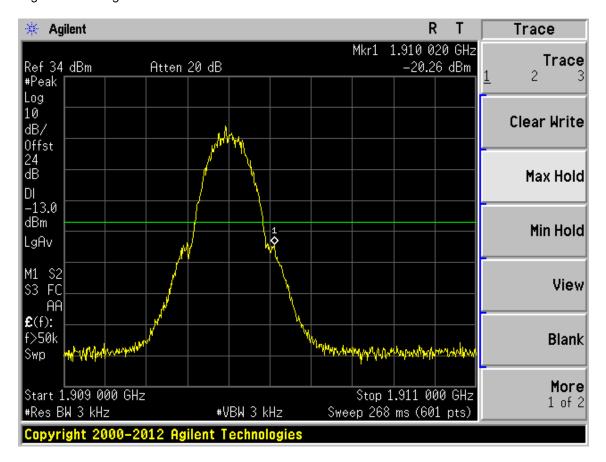
Lower Band Edge Plot on Channel 512



Date: 2016-09-14



Higher Band Edge Plot on Channel 810

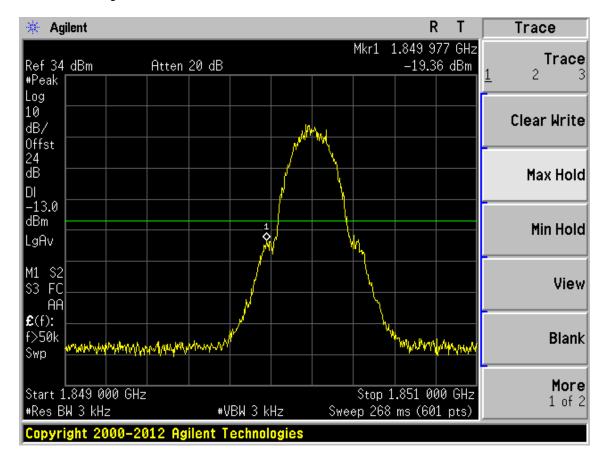


Date: 2016-09-14



Band:	GSM1900	Power Stage:	High
Test Mode:	EDGE Class 8 Link		

Lower Band Edge Plot on Channel 512



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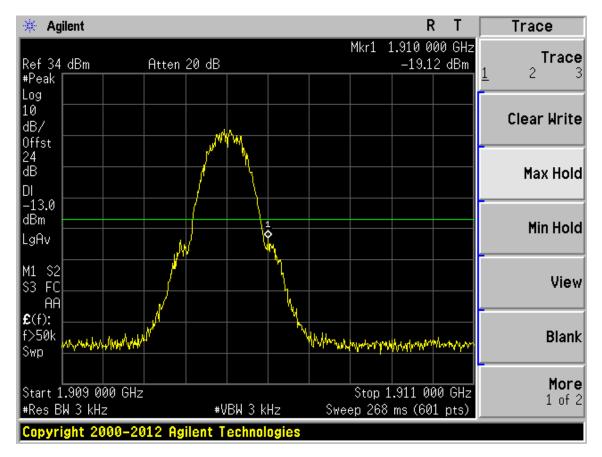
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Date: 2016-09-14



Higher Band Edge Plot on Channel 810

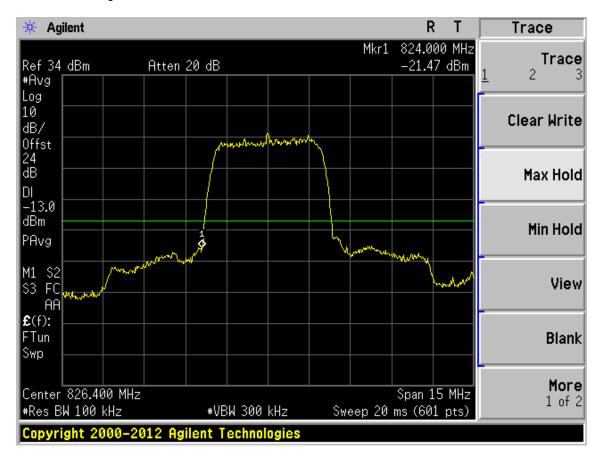


Date: 2016-09-14



Band:	WCDMA Band V	Power Stage:	High
Test Mode:	RMC 12.2Kbps Link		

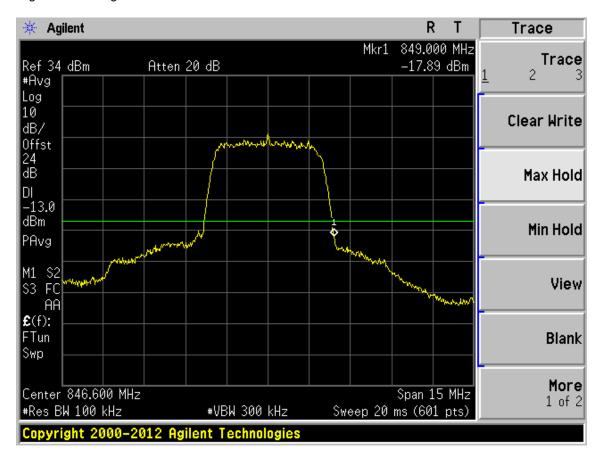
Lower Band Edge Plot on Channel 4132



Date: 2016-09-14



Higher Band Edge Plot on Channel 4233

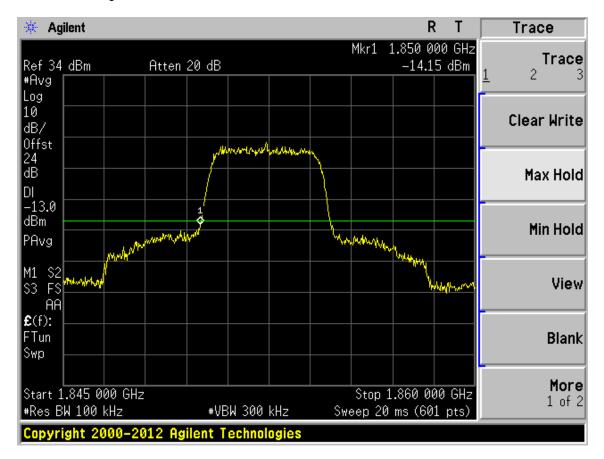


Date: 2016-09-14



Band:	WCDMA Band II	Power Stage:	High
Test Mode:	RMC 12.2Kbps Link		

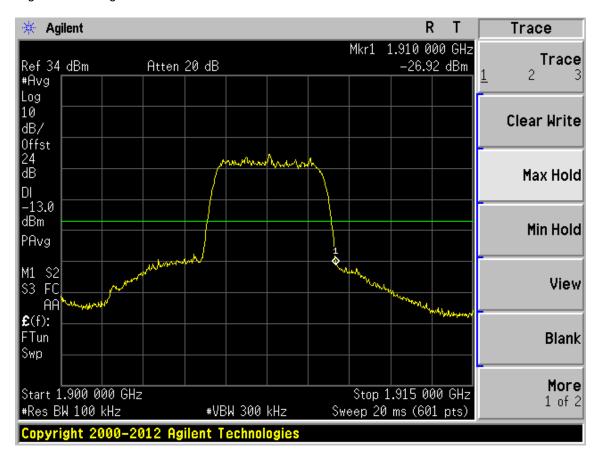
Lower Band Edge Plot on Channel 9262



Date: 2016-09-14



Higher Band Edge Plot on Channel 9538



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Date: 2016-09-14



3.5 Conducted Emission Measurement

3.5.1 Description of Conducted Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

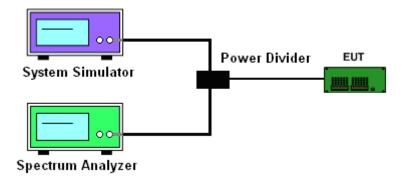
3.5.2 Measuring Instruments

See list of measuring instruments of this test report.

3.5.3 Test Procedures

- 1. The EUT was connected to spectrum analyzer and base station via power divider.
- The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.The path loss was compensated to the results for each measurement.
- 3. The middle channel for the highest RF power within the transmitting frequency was measured.
- 4. The conducted spurious emission for the whole frequency range was taken.
- The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 6. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)
 - = P(W) [43 + 10log(P)] (dB)
 - $= [30 + 10\log(P)] (dBm) [43 + 10\log(P)] (dB)$
 - = -13dBm

3.5.4 Test Setup



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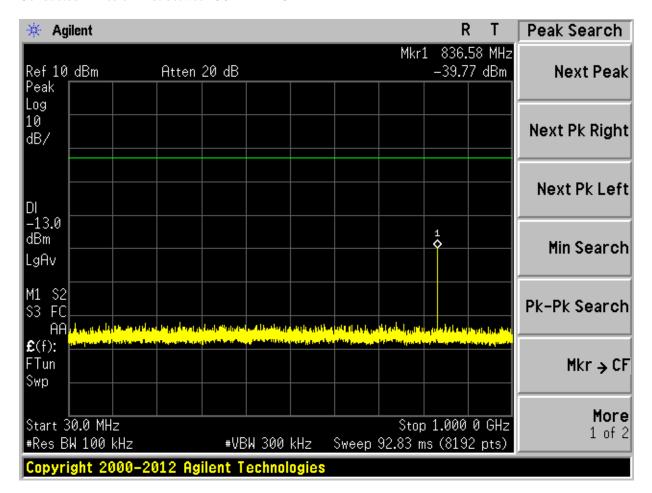
Date: 2016-09-14



3.5.5 Test Result (Plots) of Conducted Emission

Band:	GSM850	Channel:	CH190
Test Mode:	GSM Link		

Conducted Emission Plot between 30MHz ~ 1GHz



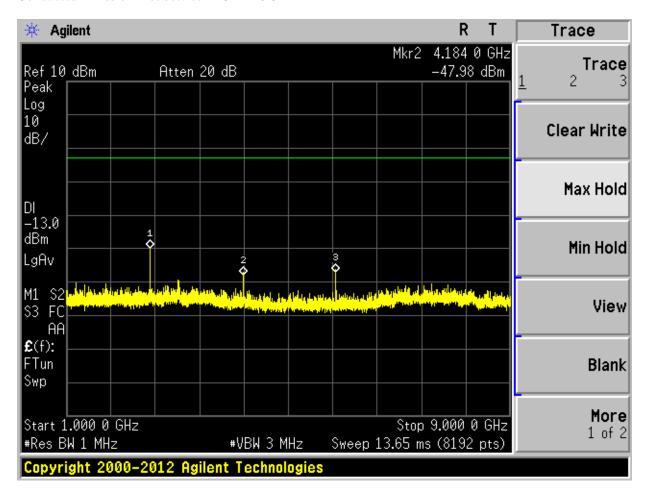
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Conducted Emission Plot between 1GHz ~ 9GHz

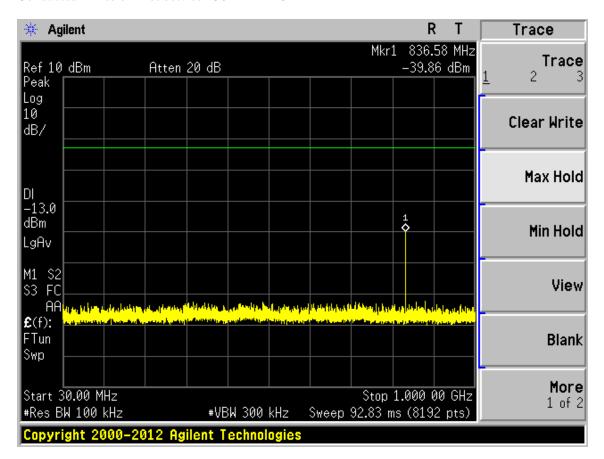


Date: 2016-09-14



Band:	GSM850	Channel:	CH190
Test Mode:	EDGE Class 8 Link		

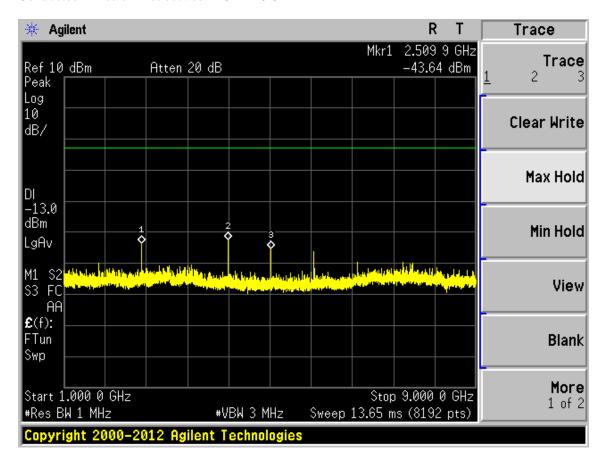
Conducted Emission Plot between 30MHz ~ 1GHz



Date: 2016-09-14



Conducted Emission Plot between 1GHz ~ 9GHz

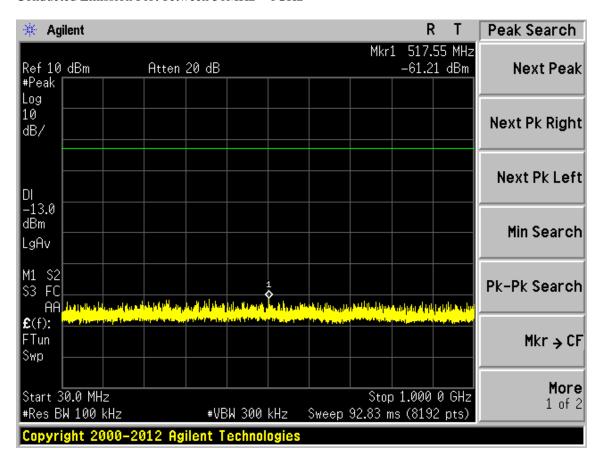


Date: 2016-09-14



Band:	GSM1900	Channel:	СН661
Test Mode:	GSM Link		

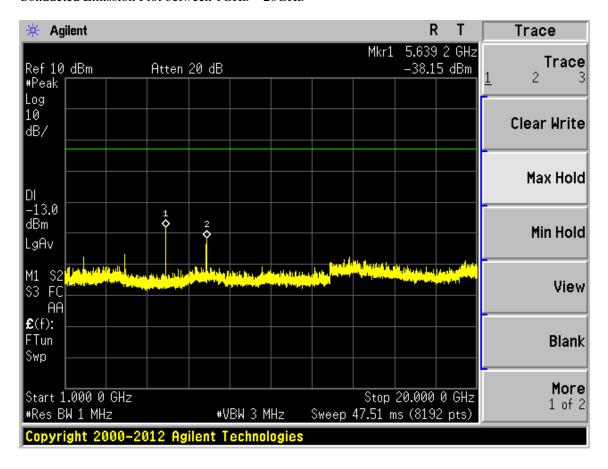
Conducted Emission Plot between 30MHz ~ 1GHz



Date: 2016-09-14



Conducted Emission Plot between 1GHz ~ 20GHz

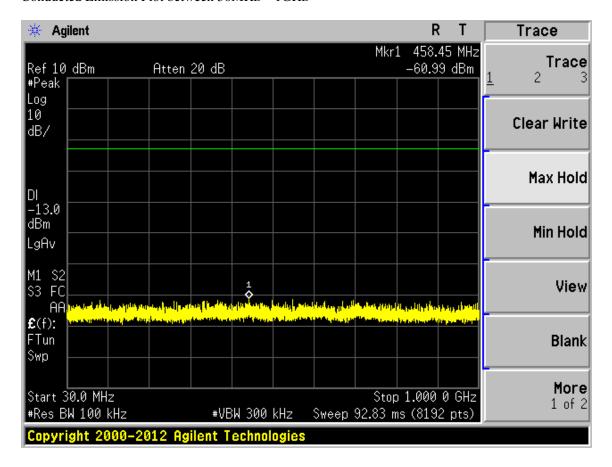


Date: 2016-09-14



Band:	GSM1900	Channel:	CH661
Test Mode:	EDGE Class 8 Link		

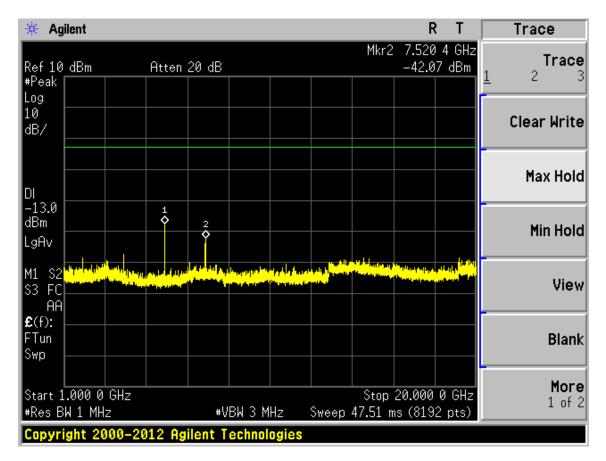
Conducted Emission Plot between 30MHz ~ 1GHz



Date: 2016-09-14



Conducted Emission Plot between 1GHz ~ 20GHz

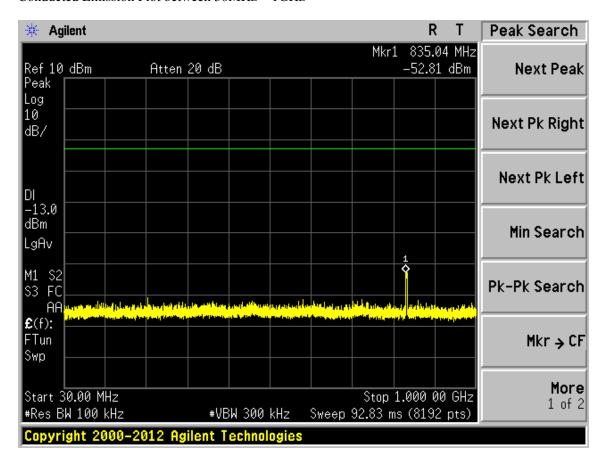


Date: 2016-09-14



Band:	WCDMA Band V	Channel:	CH4183
Test Mode:	RMC 12.2Kbps Link		

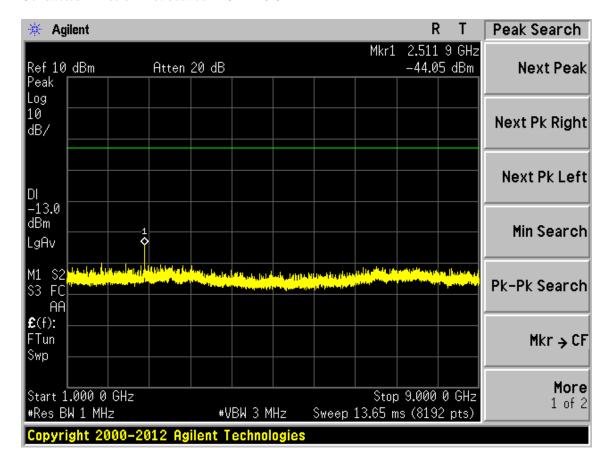
Conducted Emission Plot between 30MHz ~ 1GHz



Date: 2016-09-14



Conducted Emission Plot between 1GHz ~ 9GHz

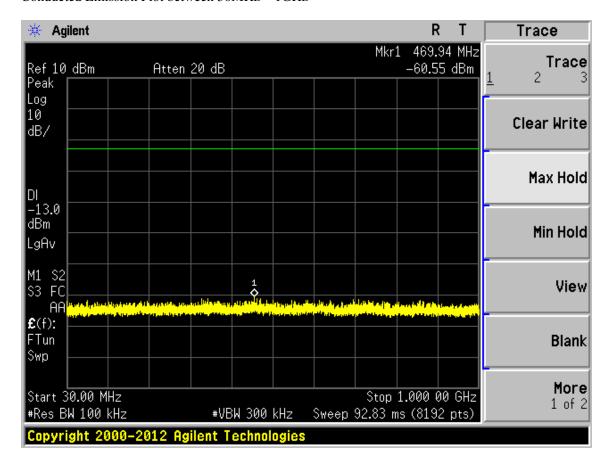


Date: 2016-09-14



Band:	WCDMA Band II	Channel:	CH9400
Test Mode:	RMC 12.2Kbps Link		

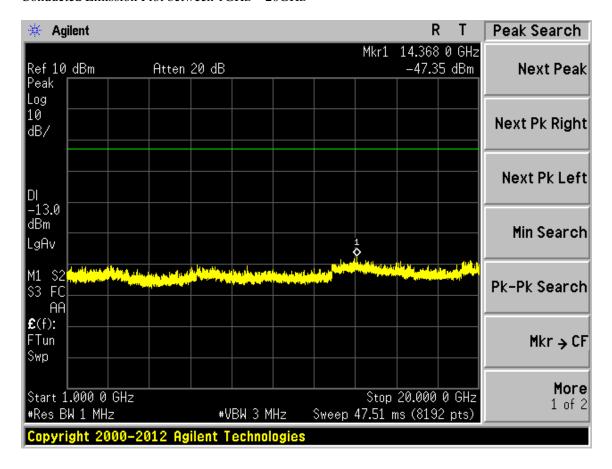
Conducted Emission Plot between 30MHz ~ 1GHz



Date: 2016-09-14



Conducted Emission Plot between 1GHz ~ 20GHz



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3.6 Field Strength of Spurious Radiation Measurement

3.6.1 Description of Field Strength of Spurious Radiated Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.6.2 Measuring Instruments

See list of measuring instruments of this test report.

3.6.3 Test Procedures

- 1. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- 5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
- 6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 8. Taking the record of output power at antenna port.
- 9. Repeat step 7 to step 8 for another polarization.
- 10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 11. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)
 - = P(W) [43 + 10log(P)] (dB)
 - = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
 - = -13dBm.
- 12. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 13. ERP (dBm) = EIRP 2.15

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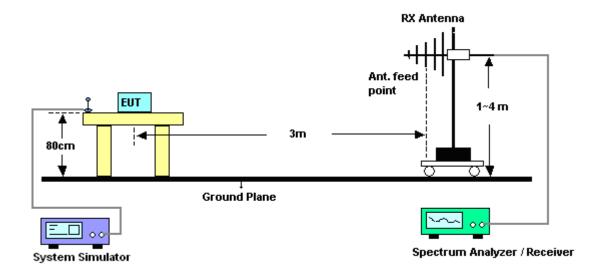
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3.6.4 Test Setup



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Test Result of Field Strength of Spurious Radiated

Test Mode	GSM850 GSM		Test Channel	Low
Frequency (MHz)	Spurious Emissions		Limit (dDm)	Dooult
	Polarization	Level(dBm)	Limit (dBm)	Result
1648.40	Vertical	-35.26	-13	Pass
2472.60	Vertical	-40.80	-13	Pass
1648.40	Horizontal	-32.16	-13	Pass
2472.60	Horizontal	-46.77	-13	Pass

Test Mode	GSM850 GSM		Test Channel	Middle
Frequency (MHz)	Spurious Emissions		Limit (dPm)	Dogult
	Polarization	Level(dBm)	Limit (dBm)	Result
1673.20	Vertical	-36.19	-13	Pass
2509.80	Vertical	-41.28	-13	Pass
1673.20	Horizontal	-33.07	-13	Pass
2509.80	Horizontal	-45.96	-13	Pass

Test Mode	GSM850 GSM		Test Channel	High
Frequency (MHz)	Spurious Emissions		Limit (dDm)	Dooult
	Polarization	Level(dBm)	Limit (dBm)	Result
1697.60	Vertical	-36.38	-13	Pass
2546.41	Vertical	-41.77	-13	Pass
1697.60	Horizontal	-33.56	-13	Pass
2546.41	Horizontal	-46.51	-13	Pass

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Test Mode	GSM1900 GSM		Test Channel	Low
Frequency (MHz)	Spurious Emissions		Limit (dPm)	Dogult
	Polarization	Level(dBm)	Limit (dBm)	Result
3700.40	Vertical	-40.22	-13	Pass
5550.60	Vertical	-45.61	-13	Pass
3700.40	Horizontal	-36.27	-13	Pass
5550.60	Horizontal	-41.46	-13	Pass

Test Mode	GSM1900 GSM		Test Channel	Middle
Frequency (MHz)	Spurious Emissions		Limit (dPm)	Dogult
	Polarization	Level(dBm)	Limit (dBm)	Result
3760.00	Vertical	-40.65	-13	Pass
5640.00	Vertical	-46.19	-13	Pass
3760.00	Horizontal	-37.02	-13	Pass
5640.00	Horizontal	-42.25	-13	Pass

Test Mode	GSM1900 GSM		Test Channel	High
Frequency (MHz)	Spurious Emissions		Limit (dPm)	Dogult
	Polarization	Level(dBm)	Limit (dBm)	Result
3819.60	Vertical	-40.36	-13	Pass
5729.40	Vertical	-46.25	-13	Pass
3819.60	Horizontal	-36.73	-13	Pass
5729.40	Horizontal	-42.09	-13	Pass

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Test Mode	WCDMA Band V RMC 12.2Kbps		Test Channel	Low
Frequency (MHz)	Spurious E	missions	Limit (dDm)	Dogult
	Polarization	Level(dBm)	Limit (dBm)	Result
1652.80	Vertical	-43.13	-13	Pass
2479.20	Vertical	-48.28	-13	Pass
1652.80	Horizontal	-41.37	-13	Pass
2479.20	Horizontal	-44.95	-13	Pass

Test Mode	WCDMA Band V RMC 12.2Kbps		Test Channel	Middle
Frequency (MHz)	Spurious Emissions		Lineit (alDine)	Daguilt
	Polarization	Level(dBm)	Limit (dBm)	Result
1673.20	Vertical	-42.58	-13	Pass
2509.80	Vertical	-47.08	-13	Pass
1673.20	Horizontal	-40.65	-13	Pass
2509.80	Horizontal	-44.32	-13	Pass

Test Mode	WCDMA Band V RMC 12.2Kbps		Test Channel	High
Frequency (MHz)	Spurious Emissions		Limit (dDm)	Dooult
	Polarization	Level(dBm)	Limit (dBm)	Result
1693.20	Vertical	-42.82	-13	Pass
2539.80	Vertical	-47.37	-13	Pass
1693.20	Horizontal	-41.29	-13	Pass
2539.80	Horizontal	-45.21	-13	Pass

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Test Mode	WCDMA Band II RMC 12.2Kbps		Test Channel	Low
Frequency (MHz)	Spurious E	Emissions	Limit (dDm)	Dogult
	Polarization	Level(dBm)	Limit (dBm)	Result
3704.80	Vertical	-43.67	-13	Pass
5557.20	Vertical	-49.15	-13	Pass
3704.80	Horizontal	-42.10	-13	Pass
5557.20	Horizontal	-46.26	-13	Pass

Test Mode	WCDMA Band V RMC 12.2Kbps		Test Channel	Middle
Frequency (MHz)	Spurious E	Emissions	Lineit (alDine)	Dooult
	Polarization	Level(dBm)	Limit (dBm)	Result
3760	Vertical	-43.22	-13	Pass
5640	Vertical	-48.79	-13	Pass
3760	Horizontal	-42.02	-13	Pass
5640	Horizontal	-45.77	-13	Pass

Test Mode	WCDMA Band V RMC 12.2Kbps		Test Channel	High
Frequency (MHz)	Spurious E	Emissions	Limit (dDm)	Dooult
	Polarization	Level(dBm)	Limit (dBm)	Result
3815.20	Vertical	-43.93	-13	Pass
5722.80	Vertical	-49.86	-13	Pass
3815.20	Horizontal	-42.23	-13	Pass
5722.80	Horizontal	-46.69	-13	Pass

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3.7 Frequency Stability Measurement

3.7.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.

3.7.2 Measuring Instruments

See list of measuring instruments of this test report.

3.7.3 Test Procedures for Temperature Variation

- 1. The EUT was set up in the thermal chamber and connected with the base station.
- With power OFF, the temperature was decreased to -30℃ and the EUT was stabilized for three
 hours. Power was applied and the maximum change in frequency was recorded within one
 minute.
- 3. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.
- 4. If the EUT can not be turned on at -30°C, the testing lowest temperature will be raised in 10°C step until the EUT can be turned on.

3.7.4 Test Procedures for Voltage Variation

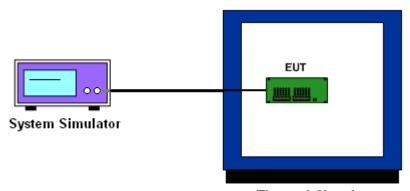
- 1. The EUT was placed in a temperature chamber at 25±5° C and connected with the base station.
- 2. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
- 3. The variation in frequency was measured for the worst case.

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3.7.5 Test Setup



Thermal Chamber

Date: 2016-09-14



Test Result of Temperature and Voltage Variation

GSM850, Middle Channel

Middle channel, fo =836.6MHz						
Temperature	Power Supplied	Frequency Error	Error	Limit		
(℃)	(V)	(Hz)	(ppm)	(ppm)		
-30	3.1	-42	-0.05	2.5		
	3.7	-40	-0.05	2.5		
	4.3	-31	-0.04	2.5		
-20	3.1	-29	-0.03	2.5		
	3.7	-26	-0.03	2.5		
	4.3	-28	-0.03	2.5		
-10	3.1	-44	-0.05	2.5		
	3.7	-36	-0.04	2.5		
	4.3	-23	-0.03	2.5		
0	3.1	-39	-0.05	2.5		
	3.7	-32	-0.04	2.5		
	4.3	-35	-0.04	2.5		
10	3.1	-34	-0.04	2.5		
	3.7	-25	-0.03	2.5		
	4.3	-30	-0.04	2.5		
20	3.1	-45	-0.05	2.5		
	3.7	-26	-0.03	2.5		
	4.3	-38	-0.05	2.5		
30	3.1	-53	-0.06	2.5		
	3.7	-33	-0.04	2.5		
	4.3	-47	-0.06	2.5		
40	3.1	-36	-0.04	2.5		
	3.7	-39	-0.05	2.5		
	4.3	-28	-0.03	2.5		
50	3.1	-45	-0.05	2.5		
	3.7	-46	-0.05	2.5		
	4.3	-51	-0.06	2.5		

Note: The extreme voltage was declared by the manufacturer.

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EDGE Class 8, Middle Channel

Middle channel, fo =836.6MHz						
Temperature (°C)	Power Supplied (V)	Frequency Error (Hz)	Error (ppm)	Limit (ppm)		
-30	3.1	-60	-0.07	2.5		
	3.7	-48	-0.06	2.5		
	4.3	-30	-0.04	2.5		
-20	3.1	-32	-0.04	2.5		
	3.7	-39	-0.05	2.5		
	4.3	-26	-0.03	2.5		
-10	3.1	-45	-0.05	2.5		
	3.7	-34	-0.04	2.5		
	4.3	-47	-0.06	2.5		
0	3.1	-40	-0.05	2.5		
	3.7	-34	-0.04	2.5		
	4.3	-40	-0.05	2.5		
10	3.1	-23	-0.03	2.5		
	3.7	-28	-0.03	2.5		
	4.3	-30	-0.04	2.5		
20	3.1	-36	-0.04	2.5		
	3.7	-42	-0.05	2.5		
	4.3	-46	-0.05	2.5		
30	3.1	-50	-0.06	2.5		
	3.7	-55	-0.07	2.5		
	4.3	-44	-0.05	2.5		
40	3.1	-37	-0.04	2.5		
	3.7	-34	-0.04	2.5		
	4.3	-56	-0.07	2.5		
50	3.1	-50	-0.06	2.5		
	3.7	-43	-0.05	2.5		
	4.3	-58	-0.07	2.5		

Note: The extreme voltage was declared by the manufacturer.

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GSM1900 Middle Channel:

Middle channel, fo =1880.0MHz									
Temperature	Power Supplied	Frequency Error	Error	Limit					
(℃)	(V)	(Hz)	(ppm)	(ppm)					
20	3.1	-67	-0.04	2.5					
-30	3.7	-73	-0.04	2.5					
	4.3	-69	-0.04	2.5					
	3.1	-55	-0.03	2.5					
-20	3.7	-68	-0.04	2.5					
	4.3	-64	-0.03	2.5					
	3.1	-53	-0.03	2.5					
-10	3.7	-36	-0.02	2.5					
	4.3	-51	-0.03	2.5					
	3.1	-66	-0.04	2.5					
0	3.7	-69	-0.04	2.5					
	4.3	-42	-0.02	2.5					
	3.1	-45	-0.02	2.5					
10	3.7	-59	-0.03	2.5					
	4.3	-46	-0.02	2.5					
	3.1	-50	-0.03	2.5					
20	3.7	-57	-0.03	2.5					
	4.3	-34	-0.02	2.5					
	3.1	-38	-0.02	2.5					
30	3.7	-60	-0.03	2.5					
	4.3	-51	-0.03	2.5					
	3.1	-48	-0.03	2.5					
40	3.7	-45	-0.02	2.5					
	4.3	-65	-0.03	2.5					
	3.1	-40	-0.02	2.5					
50	3.7	-56	-0.03	2.5					
	4.3	-63	-0.03	2.5					

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EDGE Class 8 Middle Channel:

Middle channel, fo =1880.0MHz								
Temperature (°C)	Power Supplied (V)	Frequency Error (Hz)	Error (ppm)	Limit (ppm)				
	3.3	-72	-0.04	2.5				
-30	3.7	-80	-0.04	2.5				
	4.3	-71	-0.04	2.5				
	3.3	-56	-0.03	2.5				
-20	3.7	-65	-0.03	2.5				
	4.3	-53	-0.03	2.5				
	3.3	-67	-0.04	2.5				
-10	3.7	-55	-0.03	2.5				
10	4.3	-58	-0.03	2.5				
	3.3	-62	-0.03	2.5				
0	3.7	-60	-0.03	2.5				
	4.3	-47	-0.03	2.5				
	3.3	-61	-0.03	2.5				
10	3.7	-58	-0.03	2.5				
	4.3	-53	-0.03	2.5				
	3.3	-49	-0.03	2.5				
20	3.7	-54	-0.03	2.5				
	4.3	-66	-0.04	2.5				
	3.3	-59	-0.03	2.5				
30	3.7	-68	-0.04	2.5				
	4.3	-56	-0.03	2.5				
	3.3	-42	-0.02	2.5				
40	3.7	-57	-0.03	2.5				
	4.3	-66	-0.04	2.5				
	3.3	-86	-0.05	2.5				
50	3.7	-69	-0.04	2.5				
	4.3	-73	-0.04	2.5				

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WCDMA Band V

	Mide	dle channel, fo =836.6MF	Iz	
Temperature	Power Supplied	Frequency Error	Error	Limit
(℃)	(V)	(Hz)	(ppm)	(ppm)
	3.3	-32	-0.04	2.5
-30	3.7	-58	-0.07	2.5
	4.3	-37	-0.04	2.5
	3.3	-49	-0.06	2.5
-20	3.7	-46	-0.05	2.5
	4.3	-50	-0.06	2.5
	3.3	-48	-0.06	2.5
-10	3.7	-36	-0.04	2.5
	4.3	-35	-0.04	2.5
	3.3	-42	-0.05	2.5
0	3.7	-33	-0.04	2.5
	4.3	-45	-0.05	2.5
	3.3	-37	-0.04	2.5
10	3.7	-25	-0.03	2.5
	4.3	-34	-0.04	2.5
	3.3	-30	-0.04	2.5
20	3.7	-44	-0.05	2.5
	4.3	-31	-0.04	2.5
	3.3	-46	-0.05	2.5
30	3.7	-49	-0.06	2.5
	4.3	-35	-0.04	2.5
	3.3	-32	-0.04	2.5
40	3.7	-36	-0.04	2.5
-	4.3	-45	-0.05	2.5
	3.3	-60	-0.07	2.5
50	3.7	-53	-0.06	2.5
	4.3	-38	-0.05	2.5

Note: The extreme voltage was declared by the manufacturer.

any other remedies which may be appropriate.

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WCDMA Band II

Middle channel, fo =1880.0MHz								
Temperature (°C)	Power Supplied (V)	Frequency Error (Hz)	Error (ppm)	Limit (ppm)				
	3.3	-52	-0.03	2.5				
-30	3.7	-73	-0.04	2.5				
	4.3	-70	-0.04	2.5				
	3.3	-56	-0.03	2.5				
-20	3.7	-75	-0.04	2.5				
	4.3	-42	-0.02	2.5				
	3.3	-57	-0.03	2.5				
-10	3.7	-60	-0.03	2.5				
	4.3	-67	-0.04	2.5				
	3.3	-71	-0.04	2.5				
0	3.7	-46	-0.02	2.5				
	4.3	-58	-0.03	2.5				
10	3.3	-45	-0.02	2.5				
	3.7	-72	-0.04	2.5				
	4.3	-44	-0.02	2.5				
	3.3	-49	-0.03	2.5				
20	3.7	-46	-0.02	2.5				
	4.3	-63	-0.03	2.5				
	3.3	-54	-0.03	2.5				
30	3.7	-75	-0.04	2.5				
	4.3	-57	-0.03	2.5				
	3.3	-44	-0.02	2.5				
40	3.7	-64	-0.03	2.5				
	4.3	-76	-0.04	2.5				
	3.3	-66	-0.03	2.5				
50	3.7	-65	-0.03	2.5				
	4.3	-74	-0.04	2.5				

Note: The extreme voltage was declared by the manufacturer.

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3.8 Peak-to-Average Ratio

3.8.1 Description of the PAR Measurement

The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

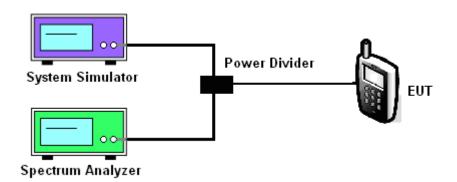
3.8.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.8.3 Test Procedures

- 1. The EUT was connected to Spectrum Analyzer and System Simulator via power divider.
- 2. For GSM/EGPRS operating modes:
 - a. Set EUT in maximum power output.
 - b. Set the RBW = 1MHz, VBW = 3MHz, Peak detector in spectrum analyzer for first trace.
 - c. Set the RBW = 1MHz, VBW = 3MHz, RMS detector in spectrum analyzer for second trace.
 - d. The wanted burst signal is triggered by spectrum analyzer, and measured respectively the peak level and Mean level without burst-off time, after system simulator synchronized with the spectrum analyzer.
- 3. For UMTS operating modes:
 - a. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
 - b. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
- 4. Record the deviation as Peak to Average Ratio.

3.8.4 Test Setup



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3.8.5 Test Result of Peak-to-Average Ratio

PCS Band										
Modes	GS	GSM1900 (GSM) GSM1900 (EDGE class 8)				WCDMA Band II (RMC 12.2Kbps)				
Channel	512 (Low)	661 (Mid)	810 (High)	512 (Low)	661 (Mid)	810 (High)	9262 (Low)	9400 (Mid)	9538 (High)	
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	1852.4	1880	1907.6	
Peak-to-Average Ratio (dB)	1.56	1.62	1.59	2.18	2.20	2.25	2.67	2.72	2.63	

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3.9 Mains Conducted Emissions

3.9.1 Measurement Method

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

3.9.2 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 frequent				

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

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A: Conducted Emission on Live Terminal (150kHz to 30MHz)

EUT Operating Environment

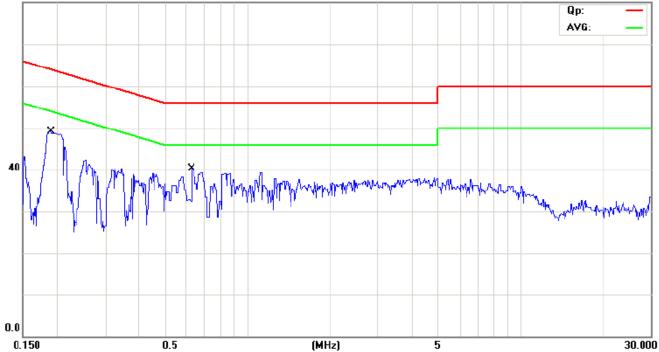
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Charging and Communication by GSM850

Equipment Level: Class B

Results: PASS

Please refer to following diagram for individual



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBu∀	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.1881	35.50	11.04	46.54	64.12	-17.58	QP	
2	0.1881	2.00	11.04	13.04	54.12	-41.08	AVG	
3	0.6332	23.60	11.51	35.11	56.00	-20.89	QP	
4	0.6332	-2.50	11.51	9.01	46.00	-36.99	AVG	

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

EUT Operating Environment

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

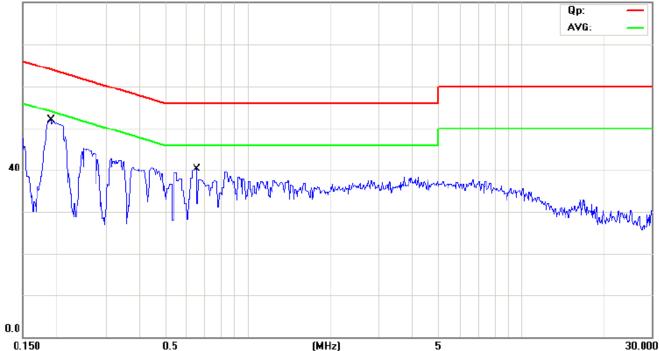
EUT set Condition: Charging and Communication by GSM850

Equipment Level: Class B

Results: PASS

Please refer to following diagram for individual

80.0	dBu∀
------	------



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.1890	37.60	11.04	48.64	64.08	-15.44	QP	
2	0.1890	1.40	11.04	12.44	54.08	-41.64	AVG	
3	0.6481	22.80	11.53	34.33	56.00	-21.67	QP	
4	0.6481	-3.40	11.53	8.13	46.00	-37.87	AVG	

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4 **List of Measuring Equipment**

	easuring Equip				
2.0 Test Equipments					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2016-08-22	2017-08-21
TWO Line-V-NETW	R&S	EZH3-Z5	100294	2016-08-22	2017-08-21
TWO Line-V-NETW	R&S	EZH3-Z5	100253	2016-08-22	2017-08-21
Ultra Broadband ANT	R&S	HL562	100157	2016-08-23	2017-08-22
ESDV Test Receiver	R&S	ESDV	100008	2016-08-22	2017-08-21
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2016-08-22	2017-08-21
System Controller	CT	SC100	-		
Printer	EPSON	PHOTO EX3	CFNH234850		
Computer	IBM	8434	1S8434KCE99BLXLO*	-	-
Loop Antenna	EMCO	6502	00042960	2016-08-23	2017-08-22
ESPI Test Receiver	R&S	ESI26	838786/013	2016-08-22	2017-08-21
3m OATS			N/A	2016-08-24	2017-08-23
Horn Antenna	R&S	BBHA 9170	BBHA9170265	2016-08-24	2017-08-23
Horn Antenna	R&S	BBHA 9120D	9120D-631	2016-08-24	2017-08-23
Power meter	Anritsu	ML2487A	6K00003613	2016-08-22	2017-08-21
Power sensor	Anritsu	MA2491A	32263	2016-08-22	2017-08-21
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2016-08-23	2017-08-21
LISN	AFJ	LS16C	10010947251	2016-08-22	2017-08-21
LISN (Three Phase)	Schwarebeck	NSLK 8126	8126453	2016-08-23	2017-08-22
9*6*6 Anechoic			N/A	2016-08-24	2017-08-23
EMI Test Receiver	RS	ESCS30	100139	2016-08-22	2017-08-21

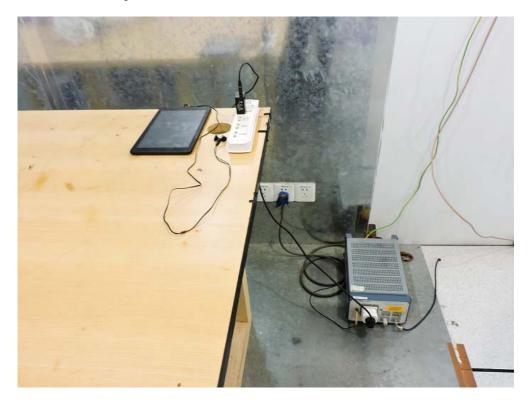
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5.0 Photographs

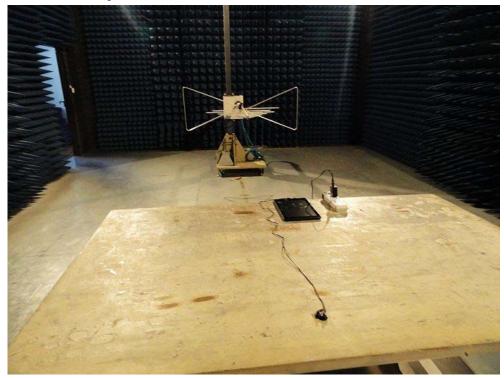
Conducted Emission Test Setup:



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Radiated Emission Test Setup:





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Photographs - EUT







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Outside view





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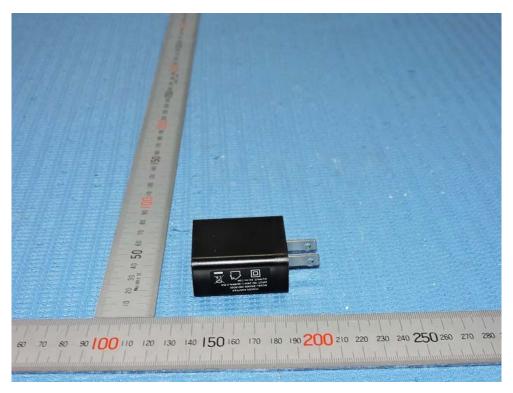
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Inside view





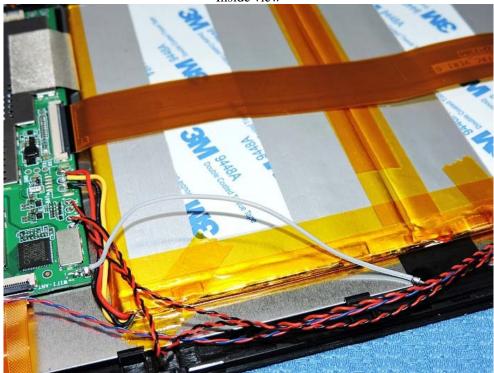
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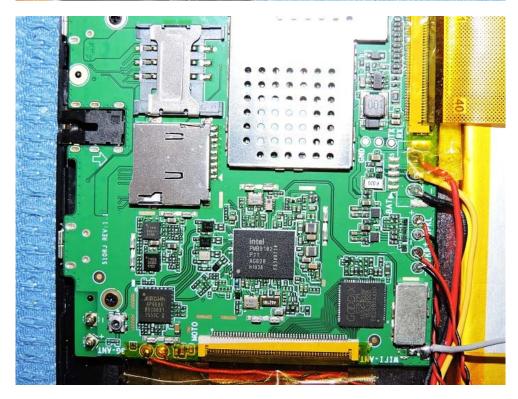
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Inside view





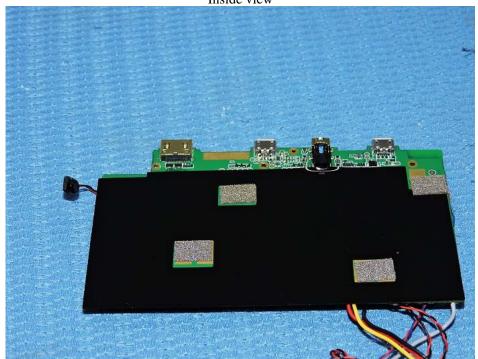
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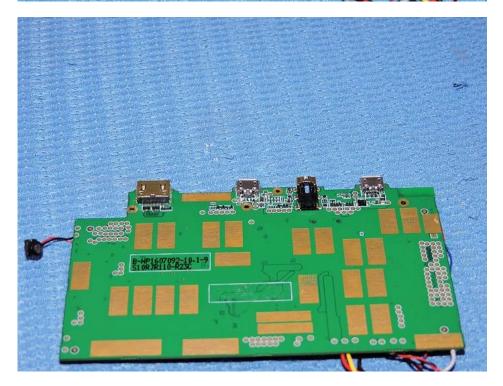
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