

# FCC CERTIFICATION REPORT

Test Report No.: EI/2012/40005

Applicant : Sony Mobile Communications AB

Address of Applicant : Nya Vattentornet 22188 Lund/SWEDEN

**Equipment Under Test (EUT) :**

Product Name: Mobile Phone

Brand Name : Sony

Marketing Name : ST23a

Model No. : PM-0190-BV

Added Model(s) : N/A

FCC ID : PY7PM-0190

IC: 4170B-PM0190

Standards : FCC Part 15:2010, Subpart B, Class B  
ICES-003(Feb. 2004)

Date of Receipt : Apr. 16, 2012

Date of Test : Apr. 16 ~ May 25, 2012

Date of Issue : Aug. 17, 2012

Test Result :	PASS
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In the configuration tested, the EUT complied with the standards specified above.

**Remarks :**

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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Test By: Jimmy Liu Date: Aug. 17, 2012

Jimmy Liu / Engineer

Prepared By: Jessie Li Date: Aug. 17, 2012

Jessie Li (Clerk)

Approved By: Jim Chang Date: Aug. 17, 2012

Jim Chang / Supervisor

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## Version

Version No.	Description	Date
00	Original report	Jul. 12, 2012
01	Revised the IC	Jul. 20, 2012
02	Revised the interior photo	Aug. 17, 2012

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## 1. General Information

### 1.1 Applicant & Manufacturer Information

Applicant : Sony Mobile Communications AB

Address of Applicant : Nya Vattentorget 22188 Lund/SWEDEN

### 1.2 General Description of EUT

Name : Mobile Phone

Brand Name : Sony

Marketing Name : ST23a

Model No. : PM-0190-BV

Added Model(s) : N/A

FCC ID : PY7PM-0190

IC: 4170B-PM0190

Model Difference : N/A

Filing Type : Certification

### 1.3 Details of EUT

Data Cable (USB):	Model No.: EC450, Supplier: K-one, Part No.: 1242-6715	
Simple Hands-free (SHF):	Model No.: MH410C, Supplier: Foster Electric, Type No.: CCA-0004017	
Car Charger:	Model No.: AN400, Supplier: Salcomp Type No.: CCA-0003013	
Hardware Version:	A	
Software Version:	2.3.J.3.8_userdebug	
Power Supply:	3.7Vdc form Li-Ion battery or 5Vdc form adapter.	
	Battery:	1. Model No.: BA700, Supplier: LG Type No.: CBA-0002025 2. Model No.: BA700, Supplier: Samsung Type No.: CBA-0002026
	Adapter :	1. Model No.: EP800, Supplier: Salcomp Type No.: CAA-0002016-US, CAA-0002016-BV 2. Model No.: EP800, Supplier: EMERSON Type No.: CAA-0002022-US, CAA-0002022-BV

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### 1.4 EUT description

The equipment under test (EUT) is the GSM/GPRS 850,1900, WCDMA/HSDPA Band 2, Band 5, FM, BT,WiFi and GPS. The test data contained in this report pertains only to the emissions due to digital circuitry of the EUT.

Test Plan:

<b>ST23a</b>	<b>Operation :</b>		<b>Unintentional radiation mode</b>	
	<b>Config 1</b>		<b>Config 2</b>	
			<b>Config 3</b>	
Applicable standard (FCC)	FCC 15B			
Accessories	UE + Battery +USB Cable + SHF	UE + Battery + AC Adaptor +USB Cable + SHF	UE + Battery + AC Adaptor +USB Cable + SHF	
Main Function	<b>Data link</b>	<b>Camera</b>	<b>FM Mode</b>	
Additional Function	Data link	FULL SYSTEM	FM Mode	
<b>Description</b>				
radiated emission	Data link	Recording&Play Recording&MP3	FM Mode (FM87.6 & FM98 & FM107.9 )	
conducted emission (DC Power)	N/A	N/A	N/A	
conducted emission (AC Power)	Data link	Recording&Play Recording&MP3	FM Mode (FM87.6 & FM98 & FM107.9 )	

### 1.5 Operation Procedure

1. Set down EUT with support units and turn on the power of all equipment.
2. Pre-test the EUT in all modes by each model, then figure the worst case out.
3. Tests under the normal operation due to unintentional radiation mode.

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### 1.6 Description of Support Units

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
NOTEBOOK	IBM	L412	LR-ZYMYD
USB Mouse	HP	M-UAE96	390938-001
Printer	HP	DJ3820	CN34L181B1
Signal Generator	Levear	VP-8194D	N/A

### 1.7 Modification List

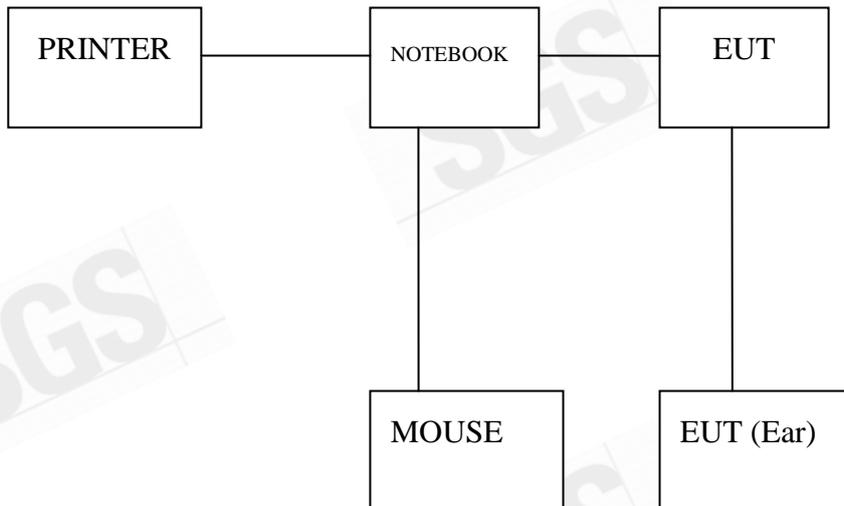
No modification by SGS Taiwan Electronics & Communication Laboratory.

### 1.8 Cable List

Cable Type	Length	Shield
Power cable	1.5m	Non-shielding

### 1.9 Test Set-Up Configuration

Config1

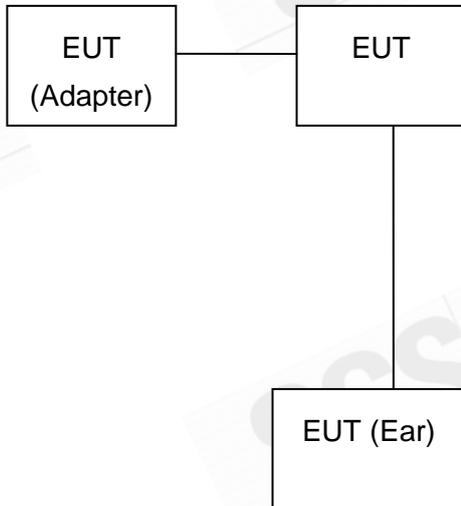


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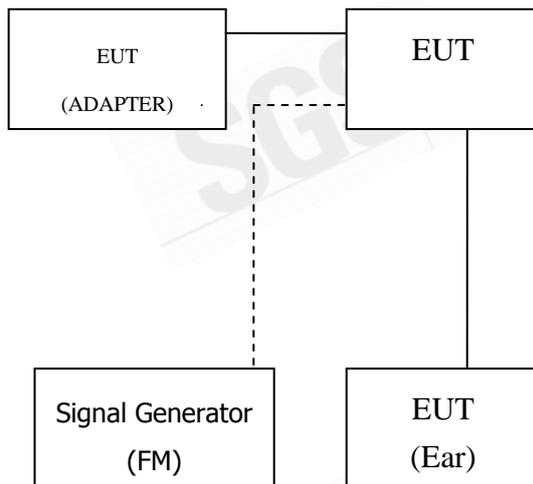
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Config2



Config3



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### 1.10 Measurement Procedure

Conducted Emission Testing was performed according ANSI C63.4:2003 in a shielded room with peripherals placed on a table, 0.8m high over a metal floor. It was located more than required distance away from the shielded room wall.

Radiated Emission Testing was performed according to ANSI C63.4:2003 at the 9\*6\*6 3m Semi-Anechoic chamber test site. The EUT was placed in a 0.8m high table along with the peripherals. The turn table was separated from the antenna distance 3meters. Cables were placed in a position to produce maximum emissions as determined by experimentation, and operation mode was selected for maximum. The frequencies and amplitudes of maximum emission were measured at varying azimuths, antenna heights and antenna polarities. Reported are maximized emission levels.

### 1.11 Standards Applicable for Testing

Table of tests to be carried out under FCC Part 15, Subpart B

Test Standards	Status
FCC Part 15, Subpart B	Applicable
Deviation from Standard	No Deviation

### 1.12 Summary of Results

Highest Emission					
Standard	Test Type	Result	Phase/Polar.	Frequency (MHz)	Margin(dB)
FCC Part 15 Subpart B Class B/CISPR 22 ICES-003(Feb. 2004)	Conducted Emission	PASS	Line	4.5400	-11.70(QP)
			Neutral	4.1500	-11.39(QP)
	Radiated Emission	PASS	Ver.	30.0000	-6.44(QP)

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## 2. Radio Disturbance

### 2.1 Test Results

	Results
Conducted Emission	Pass
Radiated Emission	Pass

### 2.2 Frequency Range

Conducted Emission : 150 kHz - 30 MHz

Radiated Emission : See below table

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

### 2.3 Limits Of Conducted And Radiated Emission

#### 2.3.1 Limit Of Conducted Emission Of FCC Part 15, Subpart B/CISPR 22

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi - peak	Average	Quasi - peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

Note : (1) The lower limit shall apply at the transition frequencies.

(2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

(3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected there to, shall not exceed the level of field strengths specified above.

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### 2.3.2 Limit Of Radiated Emissions Of FCC Part 15, Subpart B/CISPR 22

**FCC Limit:**

- Detector Function : Quasi – Peak

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 3m)
	dBuV/m	dBuV/m
30~88	39	40
88~216	43.5	43.5
216~960	46.44	46
Above 960	49.54	54

- Detector Function : Peak , Average

FREQUENCY (MHz)	Class A (dBuV) (at 3m)		Class B (dBuV) (at 3m)	
	Peak	Average	Peak	Average
Above 1000	79.3	59.3	73.9	53.9

**CISPR Limit:**

- Detector Function : Quasi – Peak

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 10m)
	dBuV/m	dBuV/m
30-230	40	30
230-1000	47	37

- Detector Function : Peak , Average – Class A

Frequency range GHz	Average Limit dB(μV/m)	Peak Limit dB(μV/m)
1 to 3	56	76
3 to 6	60	80

- Detector Function : Peak , Average – Class B

Frequency range GHz	Average Limit dB(μV/m)	Peak Limit dB(μV/m)
1 to 3	50	70
3 to 6	54	74

Note : The lower limit applies at the transition frequency.

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## 2.4. Test of Conducted Emission

### 2.4.1 Test Equipments

Description	Manufacturer	Model No.	Serial No.	Last Calibration Date	Next Calibration Date
EMI Test Receiver	ROHDE&SCHWARZ	ESCS 30	828985/004	Sep. 23, 2011	Sep. 22, 2012
Coaxial Cables	N/A	WK CE Cable	N/A	Jan. 04, 2012	Jan. 03, 2013
L.I.S.N	Rolf-Heine	NNB-2/16Z	99012	Mar. 23, 2012	Mar. 22, 2013
L.I.S.N	FCC	FCC-LISN-50/250-25-2-01	04034	Mar. 23, 2012	Mar. 22, 2013
Software	Farad	EZ-EMC-VER2A1.1(USB)	N/A	N/A	N/A

### 2.4.2 Test Site

SGS Taiwan LTD. Electronics & Communication Laboratory  
 No.134, Wu Kung Road. Wuku Industrial Zone, Taipei County 248, Taiwan (R.O.C.)

### 2.4.3 Operating Environment

Temperature : 26 degree C

Humidity : 60 %RH

Atmospheric Pressure : 996 mBar

### 2.4.4 Uncertainty of Conducted Emission

Expanded uncertainty (k=2) of Conducted Emission measurement is 0.98dB.

### 2.4.5 Measurement level and Factor calculate method

Factor = LISN insertion loss + Cable loss

Measurement Level = Reading Level + Factor

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## 2.4.6 Measurement Data

### Config 1:Data link

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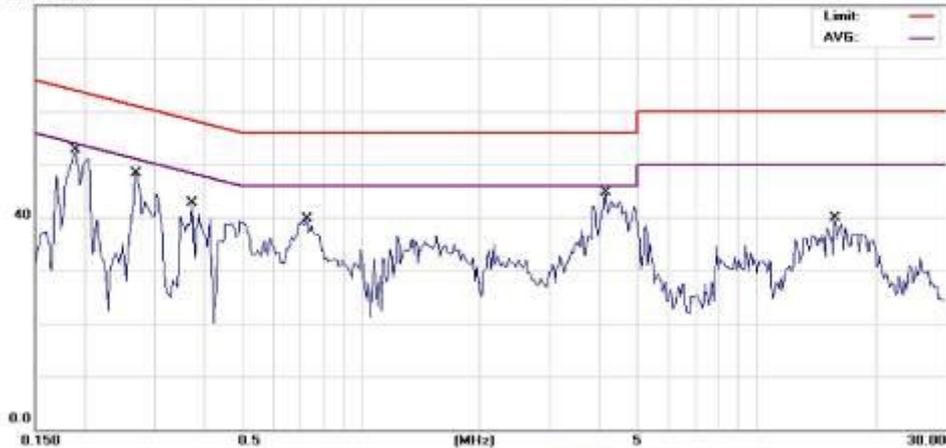
**Conducted Emission Measurement**

File : EI40005  
 80.0 dBuV

Data #29

Date: 2012/5/11

Time: 下午 03:47:30



Site site#1 Phase: **N** Temperature: 25 °C  
 Limit: CISPR22/11/EN55022 Class B (QP) Power: AC 120V/60Hz Humidity: 60%  
 EUT: MobilePhone Distance:  
 MN: ST23a  
 Mode: Config 1: UE+Battery+USB Cable+SHF ; DATA Link  
 Note: 10% battery capacity

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1900	52.29	0.32	52.61	64.04	-11.43	QP	
2		0.2700	47.91	0.32	48.23	61.12	-12.89	QP	
3		0.3750	42.38	0.33	42.71	58.39	-15.68	QP	
4		0.7300	39.38	0.32	39.70	56.00	-16.30	QP	
5	*	4.1500	44.26	0.35	44.61	56.00	-11.39	QP	
6		15.7400	39.20	0.63	39.83	60.00	-20.17	QP	

\*:Maximum data x:Over limit !:over margin

●Reference Only

File : EI40005\Data : #29

Page: 1

Engineer Signature:

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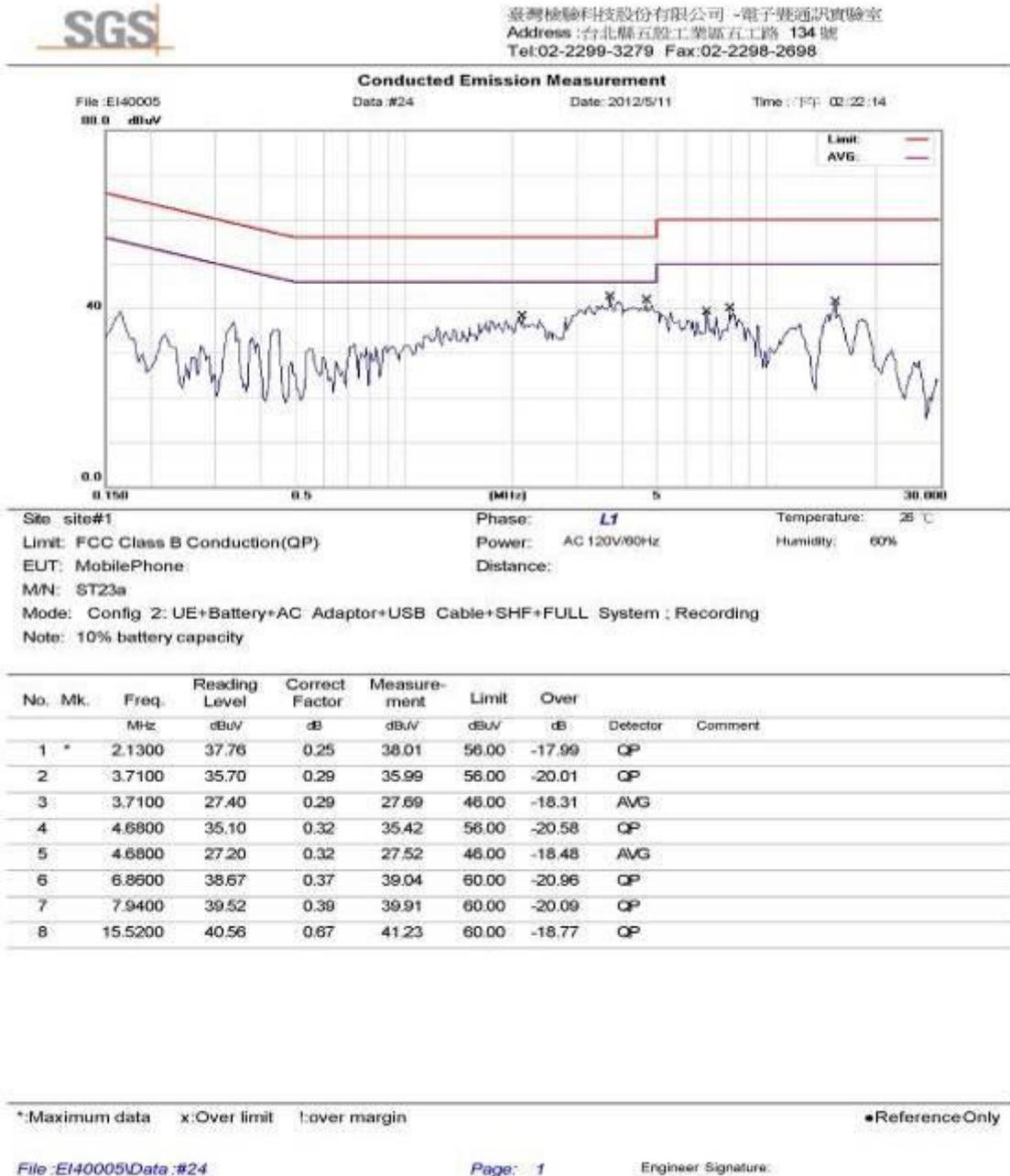
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**Config 2: Recording**

**Main:Salcomp**

**L**



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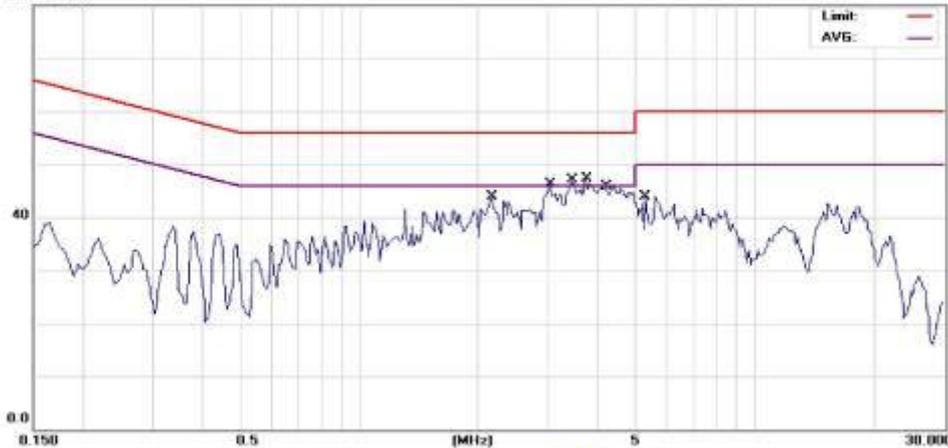
**Conducted Emission Measurement**

File: EI40005  
 80.0 dBuV

Data: #23

Date: 2012/5/11

Time: 下午 02:17:27



Site: site#1 Phase: **N** Temperature: 28 °C  
 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 60%  
 EUT: MobilePhone Distance:  
 MN: ST23a  
 Mode: Config 2: UE+Battery+AC Adaptor+USB Cable+SHF+FULL System ; Recording  
 Note: 10% battery capacity

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		2.1700	39.60	0.33	39.93	56.00	-16.07	QP	
2		2.1700	28.10	0.33	28.43	46.00	-17.57	AVG	
3		3.0400	40.30	0.34	40.64	56.00	-15.36	QP	
4		3.0400	31.20	0.34	31.54	46.00	-14.46	AVG	
5		3.4700	40.90	0.34	41.24	56.00	-14.76	QP	
6	*	3.4700	31.90	0.34	32.24	46.00	-13.76	AVG	
7		3.7400	40.70	0.35	41.05	56.00	-14.95	QP	
8		3.7400	31.80	0.35	32.15	46.00	-13.85	AVG	
9		4.2200	39.90	0.36	40.26	56.00	-15.74	QP	
10		4.2200	31.30	0.36	31.66	46.00	-14.34	AVG	
11		5.3000	43.54	0.38	43.92	60.00	-16.08	QP	

\*:Maximum data x:Over limit !:over margin

●Reference Only

File:EI40005>Data:#23

Page: 1

Engineer Signature:

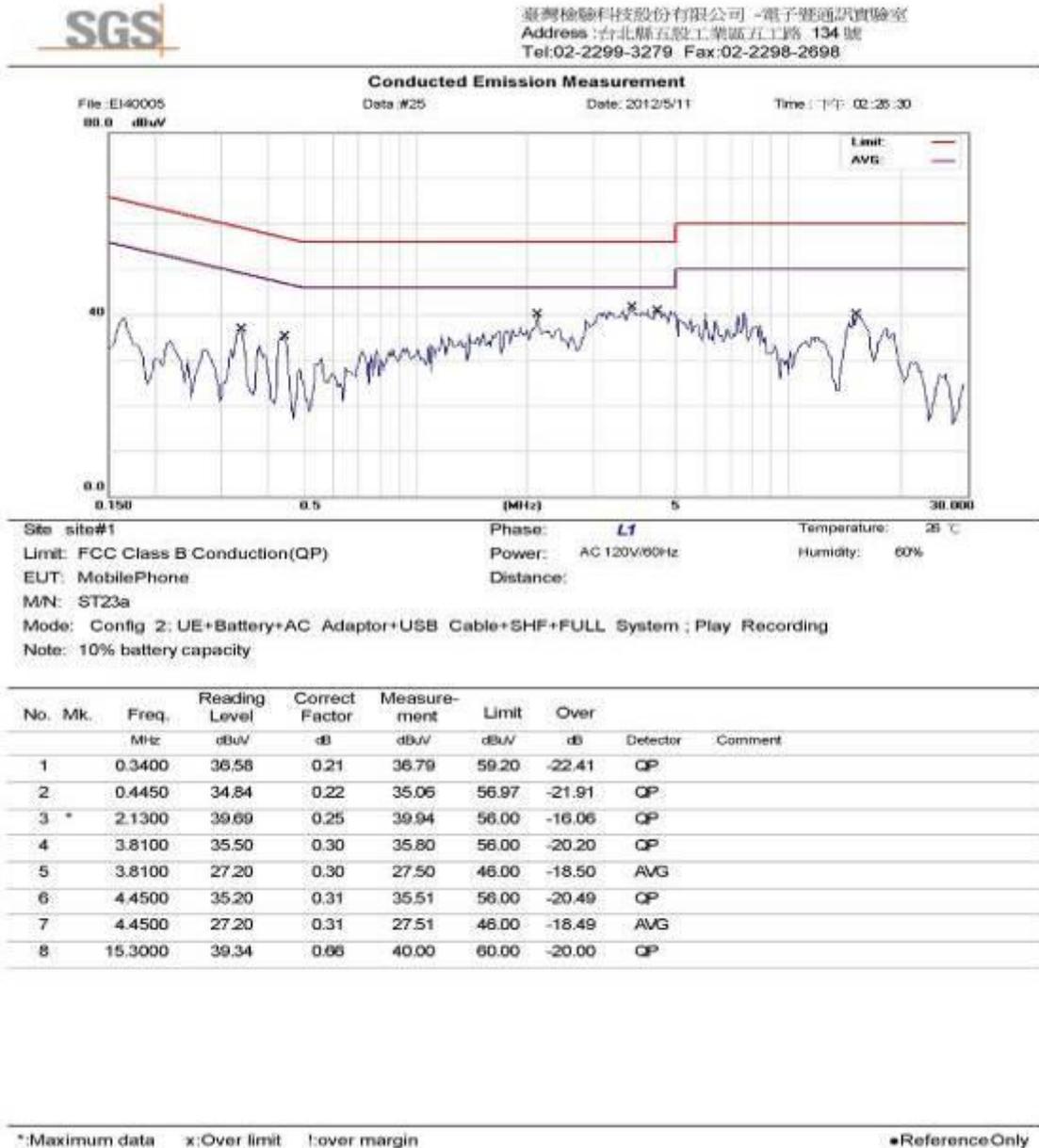
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**Config 2: Play Recording**  
**Main:Salcomp**  
**L**



File:EI40005>Data:#25

Page: 1

Engineer Signature:

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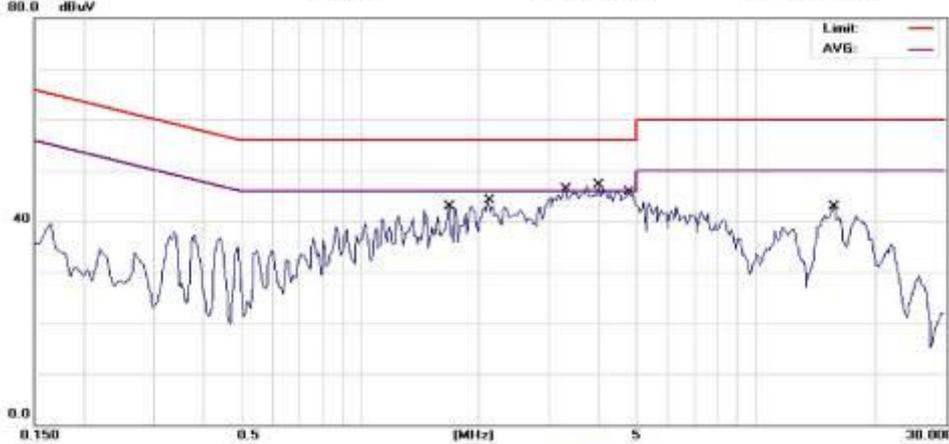
N



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**Conducted Emission Measurement**

File :EI40005 Data :#26 Date: 2012/5/11 Time : 11:02:31



Site :site#1 Phase: **N** Temperature: 25 °C  
 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 60%  
 EUT: MobilePhone Distance:  
 MN: ST23a  
 Mode: Config 2: UE+Battery+AC Adaptor+USB Cable+SHF+FULL System ; Play Recording  
 Note: 10% battery capacity

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		1.6800	38.80	0.32	39.12	56.00	-16.88	QP	
2		1.6800	28.10	0.32	28.42	46.00	-17.58	AVG	
3		2.1200	39.60	0.33	39.93	56.00	-16.07	QP	
4		2.1200	28.80	0.33	29.13	46.00	-16.87	AVG	
5		3.3000	39.90	0.34	40.24	56.00	-15.76	QP	
6		3.3000	31.40	0.34	31.74	46.00	-14.26	AVG	
7		4.0200	40.40	0.35	40.75	56.00	-15.25	QP	
8	*	4.0200	31.60	0.35	31.95	46.00	-14.05	AVG	
9		4.7800	39.30	0.37	39.67	56.00	-16.33	QP	
10		4.7800	30.40	0.37	30.77	46.00	-15.23	AVG	
11		15.8000	42.29	0.63	42.92	60.00	-17.08	QP	

\*:Maximum data x:Over limit :over margin ●Reference Only

File :EI40005\Data :#26

Page: 1

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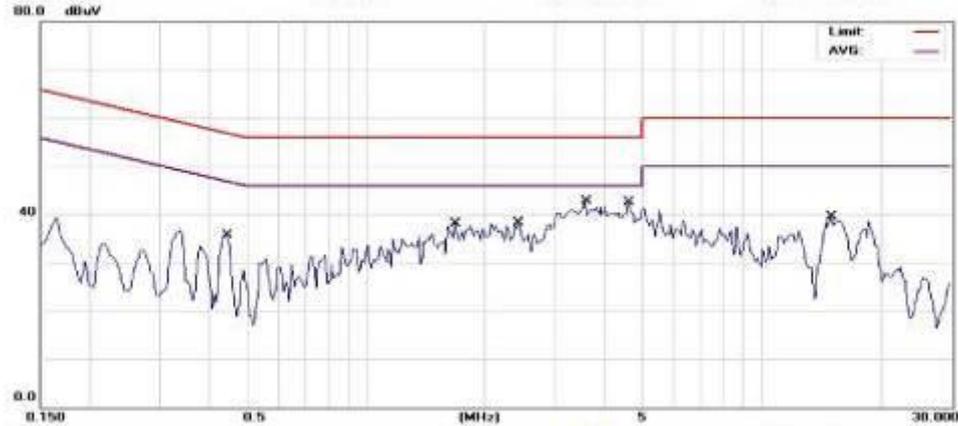
Config 2: MP3  
Main:Salcomp  
L



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### Conducted Emission Measurement

File: EI40005 Data: #28 Date: 2012/5/11 Time: 下午 02:38:24



Site: site#1 Phase: **L1** Temperature: 28 °C  
Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 60%  
EUT: MobilePhone Distance:  
M/N: ST23a  
Mode: Config 2: UE+Battery+AC Adaptor+USB Cable+SHF+FULL System ; MP3  
Note: 10% battery capacity

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.4450	35.50	0.22	35.72	56.97	-21.25	QP	
2		1.6800	37.79	0.24	38.03	56.00	-17.97	QP	
3	*	2.4300	38.08	0.26	38.34	56.00	-17.66	QP	
4		3.6000	35.80	0.29	36.09	56.00	-19.91	QP	
5		3.6000	27.40	0.29	27.69	46.00	-18.31	AVG	
6		4.6100	35.10	0.32	35.42	56.00	-20.58	QP	
7		4.6100	27.20	0.32	27.52	46.00	-18.48	AVG	
8		15.0200	38.93	0.65	39.58	60.00	-20.42	QP	

\*:Maximum data x:Over limit t:over margin

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File: EI40005Data: #28

Page: 1

Engineer Signature:

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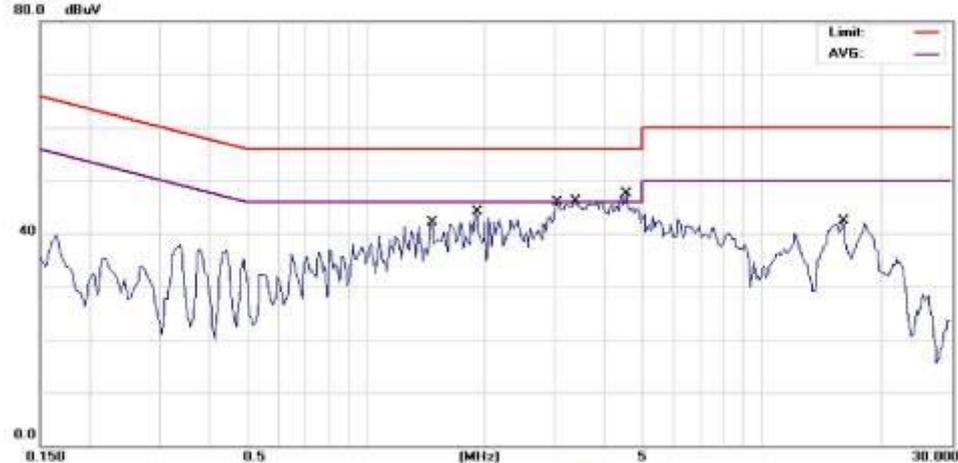
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**Conducted Emission Measurement**

File: EI40005 Data: #27 Date: 2012/5/11 Time: 下午 02:35:07



Site: site#1 Phase: **N** Temperature: 25 °C  
 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 60%  
 EUT: MobilePhone Distance:  
 MN: ST23a  
 Mode: Config 2: UE+Battery+AC Adaptor+USB Cable+SHF+FULL System ; MP3  
 Note: 10% battery capacity

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		1.4700	37.30	0.32	37.62	56.00	-18.38	QP	
2		1.4700	27.10	0.32	27.42	46.00	-18.58	AVG	
3		1.9000	40.00	0.33	40.33	56.00	-15.67	QP	
4		1.9000	29.00	0.33	29.33	46.00	-16.67	AVG	
5		3.0400	40.70	0.34	41.04	56.00	-14.96	QP	
6		3.0400	31.40	0.34	31.74	46.00	-14.26	AVG	
7		3.3700	40.60	0.34	40.94	56.00	-15.06	QP	
8	*	3.3700	32.00	0.34	32.34	46.00	-13.66	AVG	
9		4.5600	40.00	0.36	40.36	56.00	-15.64	QP	
10		4.5600	31.00	0.36	31.36	46.00	-14.64	AVG	
11		16.1000	41.74	0.64	42.38	60.00	-17.62	QP	

\*:Maximum data x:Over limit !:over margin ●Reference Only

File: EI40005>Data: #27

Page: 1

Engineer Signature:

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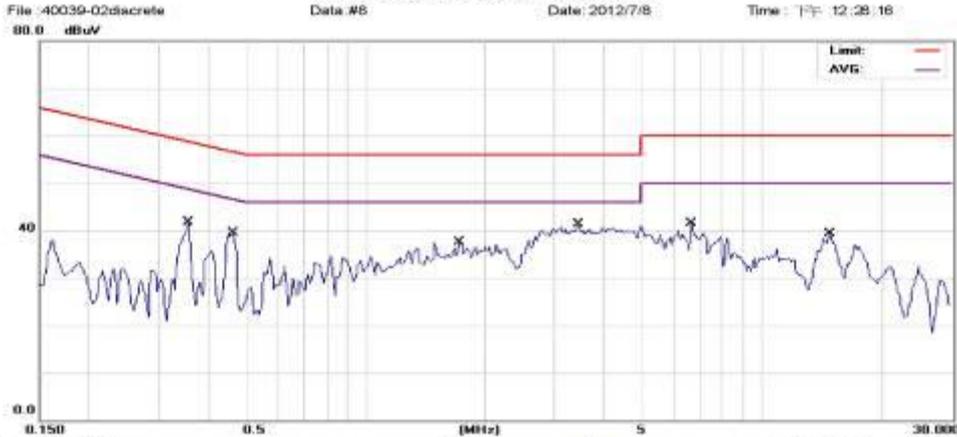
Config 3 : FM 87.6

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Conducted Emission Measurement



File :40039-02discrete Data #8 Date: 2012/7/8 Time : 12:28:16  
Site :ConductionRoom Phase: **L1** Temperature: 25 °C  
Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 60%  
EUT: MobilePhone Distance:  
M/N: PM-0190-BV(ST23a)  
Mode: FM87.6  
Note: 10% battery capacity

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.3572	41.39	0.22	41.61	58.79	-17.18	QP	
2	*	0.4628	39.33	0.22	39.55	56.64	-17.09	QP	
3		1.7277	37.29	0.24	37.53	56.00	-18.47	QP	
4		3.4403	36.60	0.28	36.88	56.00	-19.12	QP	
5		3.4403	28.40	0.28	28.68	46.00	-17.32	AVG	
6		6.6305	41.15	0.36	41.51	60.00	-18.49	QP	
7		14.8297	38.59	0.63	39.22	60.00	-20.78	QP	

\*:Maximum data x:Over limit !:over margin ●Reference Only

File :40039-02discrete\Data :#8

Page: 1

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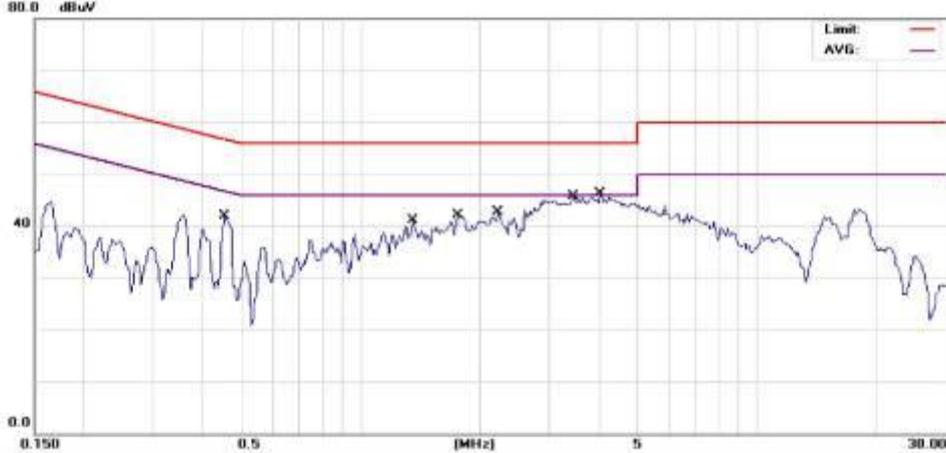
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 Tel:02-2299-3279 Fax:02-2298-2698

**Conducted Emission Measurement**

File :40039-02discrete Data #7 Date: 2012/7/8 Time : 下午 12:22:09



Site: ConductionRoom Phase: **N** Temperature: 25 °C  
 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 60%  
 EUT: MobilePhone Distance:  
 M/N: PM-0190-BV(ST23a)  
 Mode: FM87.6  
 Note: 10% battery capacity

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.4550	39.80	0.34	40.14	56.78	-16.64	QP	
2		0.4550	32.00	0.34	32.34	46.78	-14.44	AVG	
3		1.3563	38.10	0.31	38.41	56.00	-17.59	QP	
4		1.3563	26.60	0.31	26.91	46.00	-19.09	AVG	
5		1.7590	37.50	0.33	37.83	56.00	-18.17	QP	
6		1.7590	27.70	0.33	28.03	46.00	-17.97	AVG	
7		2.2165	37.40	0.33	37.73	56.00	-18.27	QP	
8		2.2165	27.20	0.33	27.53	46.00	-18.47	AVG	
9		3.4442	40.20	0.34	40.54	56.00	-15.46	QP	
10	*	3.4442	31.80	0.34	32.14	46.00	-13.86	AVG	
11		4.0268	39.10	0.35	39.45	56.00	-16.55	QP	
12		4.0268	31.40	0.35	31.75	46.00	-14.25	AVG	

\*:Maximum data x:Over limit !:over margin ●Reference Only

File :40039-02discrete\Data :#7

Page: 1

Engineer Signature:

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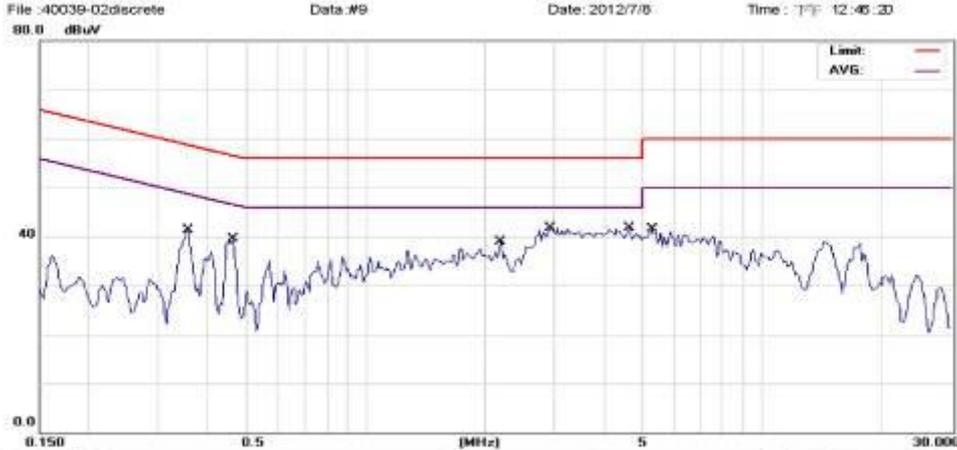
Config 3 : FM 98

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Conducted Emission Measurement



File :40039-02discrete Data :#9 Date: 2012/7/6 Time: 下午 12:45:20  
Site: ConductionRoom Phase: L1 Temperature: 28 °C  
Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 60%  
EUT: MobilePhone Distance:  
MN: PM-0190-BV(ST23a)  
Mode: FM98.0  
Note: 10% battery capacity

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.3572	41.05	0.22	41.27	58.79	-17.52	QP	
2	*	0.4628	39.37	0.22	39.59	56.64	-17.05	QP	
3		2.2008	38.68	0.25	38.93	56.00	-17.07	QP	
4		2.9203	36.20	0.27	36.47	56.00	-19.53	QP	
5		2.9203	27.40	0.27	27.67	46.00	-18.33	AVG	
6		4.6407	34.70	0.32	35.02	56.00	-20.98	QP	
7		4.6407	26.90	0.32	27.22	46.00	-18.78	AVG	
8		5.2815	41.27	0.33	41.60	60.00	-18.40	QP	

\*:Maximum data x:Over limit !:over margin ■ReferenceOnly

File :40039-02discrete>Data :#9

Page: 1

Engineer Signature:

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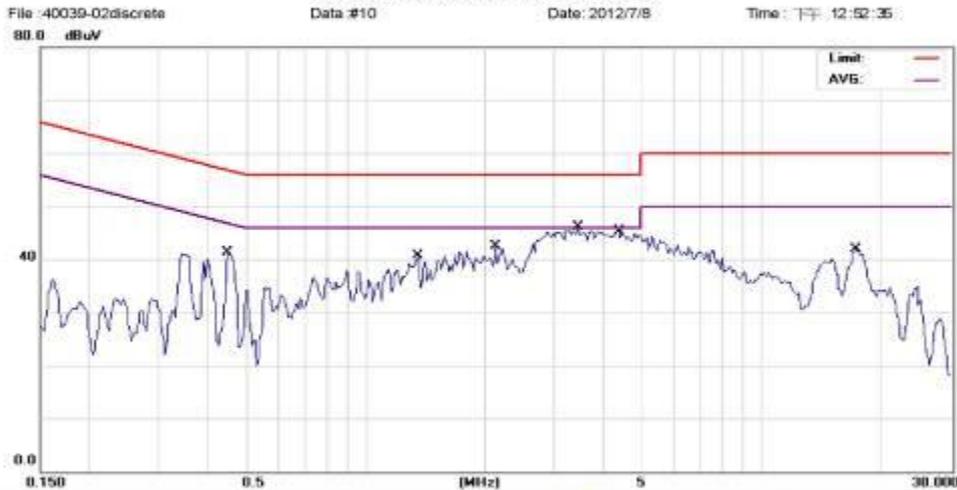
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### Conducted Emission Measurement



File :40039-02discrete Data #10 Date: 2012/7/8 Time: 下午 12:52:35

Site: ConductionRoom Phase: N Temperature: 25 °C  
Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 60%  
EUT: MobilePhone Distance:  
MN: PM-0190-BV(ST23a)  
Mode: FM98.0  
Note: 10% battery capacity

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.4472	39.10	0.34	39.44	56.93	-17.49	QP	
2		0.4472	28.70	0.34	29.04	46.93	-17.89	AVG	
3		1.3524	37.10	0.31	37.41	56.00	-18.59	QP	
4		1.3524	25.10	0.31	25.41	46.00	-20.59	AVG	
5		2.1422	36.70	0.33	37.03	56.00	-18.97	QP	
6		2.1422	25.90	0.33	26.23	46.00	-19.77	AVG	
7		3.4403	40.00	0.34	40.34	56.00	-15.66	QP	
8	*	3.4403	31.90	0.34	32.24	46.00	-13.76	AVG	
9		4.3631	38.70	0.35	39.05	56.00	-16.95	QP	
10		4.3631	30.60	0.35	30.95	46.00	-15.05	AVG	
11		17.4221	41.30	0.68	41.98	60.00	-18.02	QP	

\*:Maximum data x:Over limit !:over margin ●ReferenceOnly

File :40039-02discrete\Data :#10

Page: 1

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Config 3 : FM 107.9

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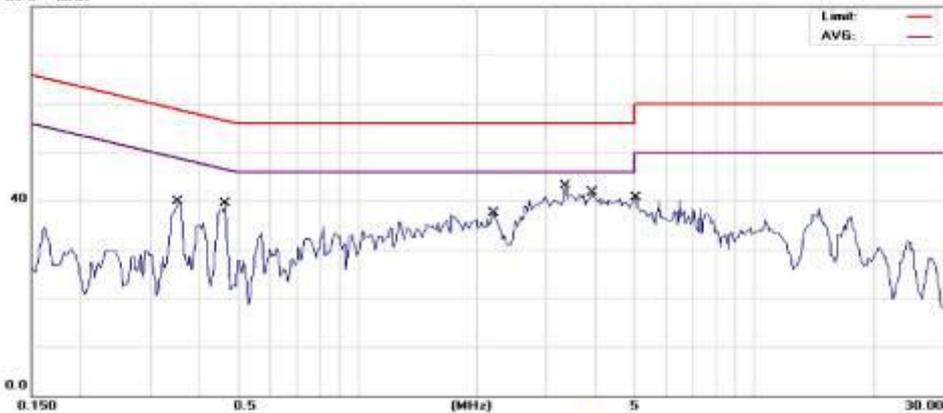
Conducted Emission Measurement

File :40039-02discrete  
80.0 dBuV

Data #12

Date: 2012/7/8

Time: 下午 01:03:55



Site: ConductionRoom  
Limit: FCC Class B Conduction(QP)  
EUT: MobilePhone  
MN: PM-0190-BV(ST23a)  
Mode: FM107.9  
Note: 10% battery capacity

Phase: L1  
Power: AC 120V/60Hz  
Distance:  
Temperature: 25 °C  
Humidity: 60%

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.3533	39.74	0.22	39.96	58.88	-18.92	QP	
2	*	0.4628	39.26	0.22	39.48	56.64	-17.16	QP	
3		2.2087	37.17	0.25	37.42	56.00	-18.58	QP	
4		3.3504	35.10	0.28	35.38	56.00	-20.62	QP	
5		3.3504	27.00	0.28	27.28	46.00	-18.72	AVG	
6		3.9056	35.40	0.30	35.70	56.00	-20.30	QP	
7		3.9056	27.10	0.30	27.40	46.00	-18.60	AVG	
8		5.0313	40.29	0.33	40.62	60.00	-19.38	QP	

\*:Maximum data x:Over limit l:over margin

●Reference Only

File :40039-02discrete\Data :#12

Page: 1

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### Conducted Emission Measurement

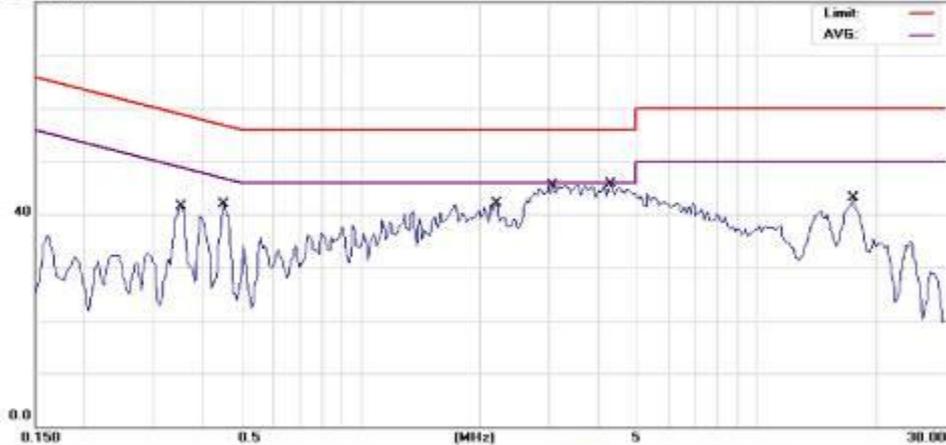
File :40039-02discrete

Data :#11

Date :2012/7/8

Time : 下午 12:59:15

80.0 dBuV



Site :ConductionRoom

Phase: N

Temperature: 25 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 60%

EUT: MobilePhone

Distance:

MN: PM-0190-BV(ST23a)

Mode: FM107.9

Note: 10% battery capacity

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.3533	41.15	0.34	41.49	58.88	-17.39	QP	
2		0.4511	39.90	0.34	40.24	56.85	-16.61	QP	
3		0.4511	30.70	0.34	31.04	46.85	-15.81	AVG	
4		2.2087	34.80	0.33	35.13	56.00	-20.87	QP	
5		2.2087	25.90	0.33	26.23	46.00	-19.77	AVG	
6		3.0493	40.30	0.34	40.64	56.00	-15.36	QP	
7	*	3.0493	31.60	0.34	31.94	46.00	-14.06	AVG	
8		4.2810	39.00	0.35	39.35	56.00	-16.65	QP	
9		4.2810	30.90	0.35	31.25	46.00	-14.75	AVG	
10		17.6449	42.39	0.69	43.08	60.00	-16.92	QP	

\*:Maximum data x:Over limit !:over margin

●ReferenceOnly

File :40039-02discrete\Data :#11

Page: 1

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## 2.5 Test of Radiated Emission

### 2.5.1 Test Instruments

#### Below 1G

Description	Manufacturer	Model No.	Serial No.	Last Calibration Date	Next Calibration Date
Site NSA	TDK	966 Chamber	N/A	Nov. 06, 2011	Nov. 05, 2012
EMI Test Receiver	ROHDE&SCHWARZ	ESCI	100335	Feb. 01, 2012	Jan. 31, 2013
Spectrum Analyzer	Agilent	E4440A	MY45304525	Mar. 17, 2012	Mar. 16, 2014
Broadband Antenna	SCHWAZBECK	VULB9160	9160-3136	Dec. 28, 2011	Dec. 27, 2012
RF-Amplifier	HP	8447D	2944A09469	Nov. 26, 2011	Nov. 25, 2012
Antenna Master	HD GmbH	MA240-N	240/657	N/A	N/A
Turn Table	HD GmbH	DS420	420/542	N/A	N/A
Controller	HD GmbH	HD 100	100/803	N/A	N/A
CCD Video Camera System	N/A	VCS-04	N/A	N/A	N/A
Color Monitor	Lenovo	16dcpw5-1	N/A	N/A	N/A
Software	Farad	EZ-EMC-VER2A1.1(USB)	N/A	N/A	N/A

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**Above 1G**

Description	Manufacturer	Model No.	Serial No.	Last Calibration Date	Next Calibration Date
Site NSA	Chamost	966II Chamber	N/A	Dec. 30, 2011	Dec. 29, 2012
Site VSWR	Chamost	966II Chamber	N/A	Dec. 30, 2011	Dec. 29, 2012
EMI Test Receiver	ROHDE&SCHWARZ	ESCI 7	1166.5950K07 -10760-GK	Feb. 01, 2012	Jan. 31, 2013
Spectrum Analyzer	Agilent	E4440A	MY45304525	Mar. 17, 2012	Mar. 16, 2014
RF-Amplifier (0.1-1300MHz)	HP	8447D	1937A02774	Nov. 26, 2011	Nov. 25, 2012
RF-Amplifier (1-26.5GHz)	HP	8449B	3008A00578	Dec. 27, 2011	Dec. 26, 2012
RF-Amplifier (26-40GHz)	EM Electronics Corp.	EM26400	N/A	Dec. 28, 2011	Dec. 27, 2012
Coaxial Cables (For 9kHz~26.5GHz)	SUCOFLEX	104PEA	N/A	Dec. 28, 2011	Dec. 27, 2012
Re Cables (966II) (For 1~40GHz)	HUBER SUHNER	SUCCOFLEX 102	22962/2	Dec. 28, 2011	Dec. 27, 2012
Re Cables (966II) (For 1~40GHz)	HUBER SUHNER	SUCCOFLEX 102	23051/2	Dec. 28, 2011	Dec. 27, 2012
Antenna Master	MF.	N/A	N/A	N/A	N/A
Turn Table	MF.	N/A	N/A	N/A	N/A
Controller	MF.	3000	MF780208153	N/A	N/A
Antenna	SCHWAZBECK	VULB9160	3068	Nov. 01, 2011	Oct. 31, 2012
Horn Antenna (For 1~18G )	ETS-Lindgren	3117	00135200	Oct. 06, 2011	Oct. 05, 2012
Horn Antenna (For 18~40G )	SCHWAZBECK	BBHA 9170	BBHA9170185	Jul. 11, 2011	Jul. 10, 2013
Software	Farad	EZ-EMC- VER2A1.1(USB)	N/A	N/A	N/A

**2.5.2 Test Site**

SGS Taiwan LTD. Electronics & Communication Laboratory  
No.134, Wu Kung Road. Wuku Industrial Zone, Taipei County 248, Taiwan (R.O.C.)

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### 2.5.3 Operating Environment

Temperature : 25 degree C

Humidity : 60 %RH

Atmospheric Pressure : 996 mBar

### 2.5.4 Uncertainty of Radiated Emission

Expanded uncertainty (k=2) of radiated emission measurement is 3.70dB.(30-1000MHz)

Expanded uncertainty (k=2) of radiated emission measurement is 5.63dB.(1-40GHz)

### 2.5.5 Measurement level and Factor calculate method

Factor = Antenna loss + Cable loss + Amplifier Compensate

Measurement Level = Reading Level + Factor

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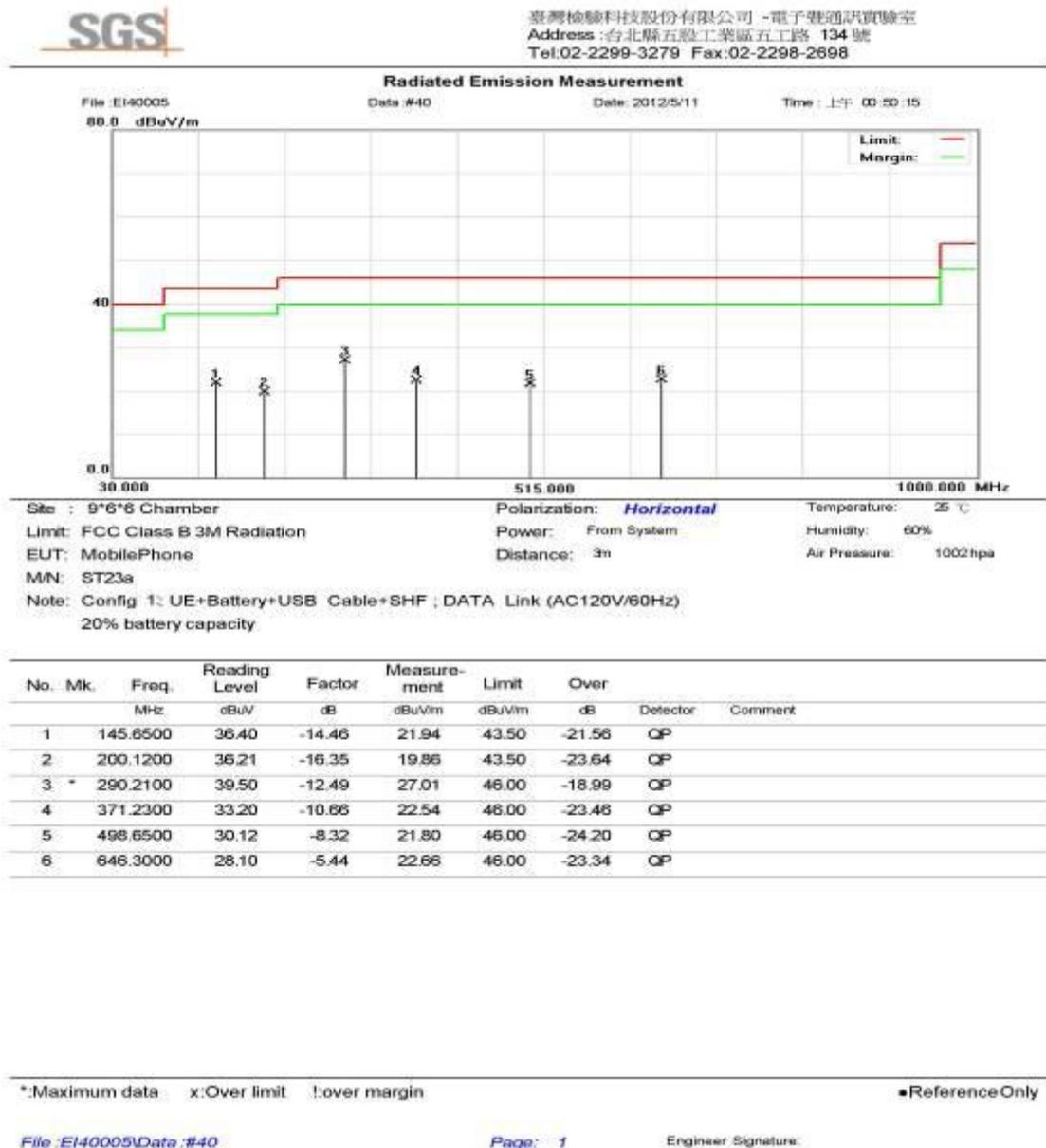
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## 2.5.6 Measurement Data

Below 1G

Config 1:Data Link

H



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### Radiated Emission Measurement



Site : 9'6" Chamber Polarization: **Vertical** Temperature: 25 °C  
Limit: FCC Class B 3M Radiation Power: From System Humidity: 60%  
EUT: MobilePhone Distance: 3m Air Pressure: 1002 hpa  
MN: ST23a  
Note: Config 1: UE+Battery+USB Cable+SHF ; DATA Link (AC120V/60Hz)  
20% battery capacity

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		130.1200	35.60	-15.58	20.02	43.50	-23.48	QP	
2		200.1300	37.35	-16.35	21.00	43.50	-22.50	QP	
3		285.3500	34.32	-12.61	21.71	46.00	-24.29	QP	
4		500.1000	32.51	-8.30	24.21	46.00	-21.79	QP	
5		623.2000	29.20	-5.80	23.40	46.00	-22.60	QP	
6	*	750.1000	28.10	-2.08	26.02	46.00	-19.98	QP	

\*:Maximum data x:Over limit :over margin

•Reference Only

File :EI40005Data :#39

Page : 1

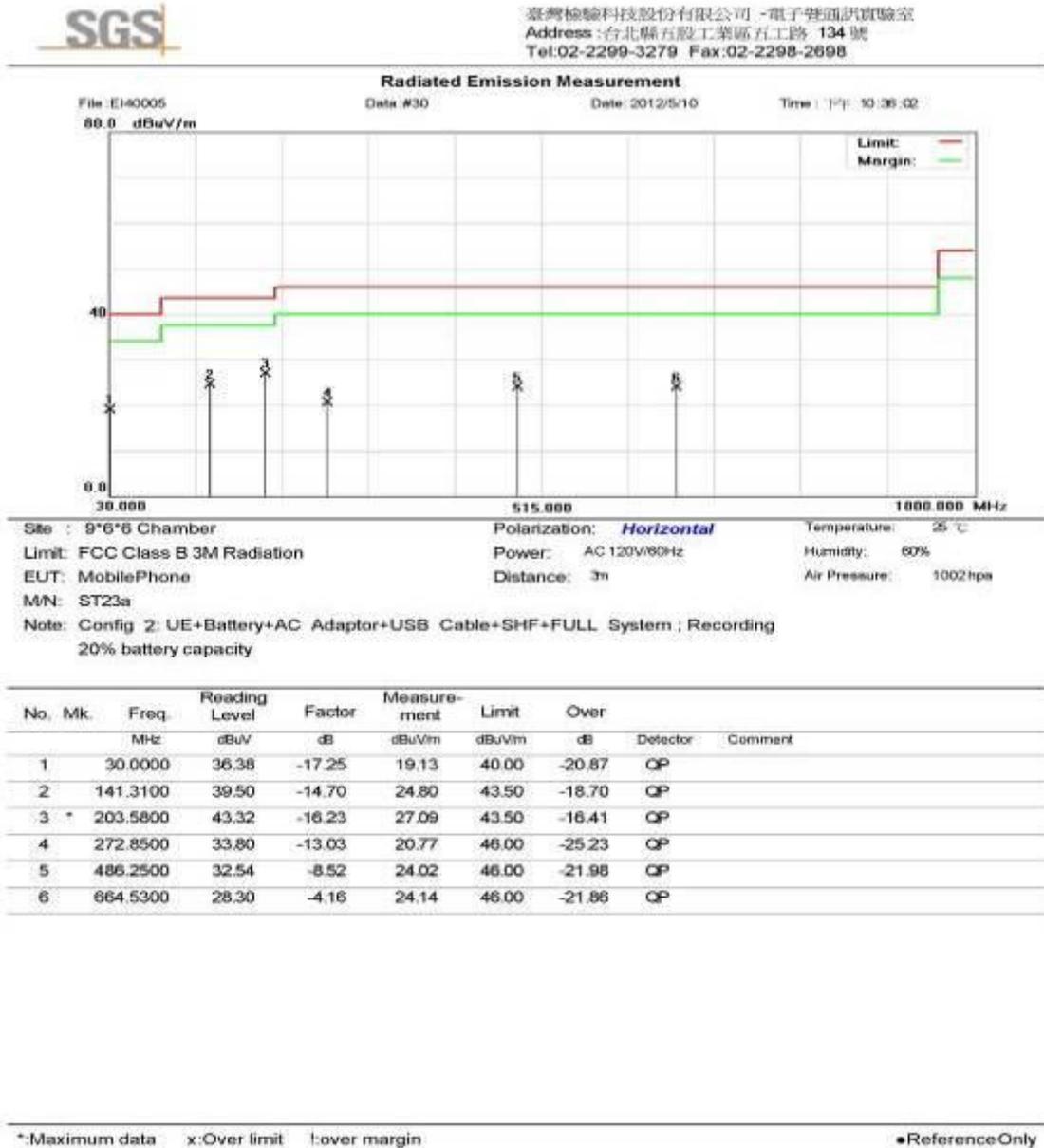
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**Config 2:Recording**  
**Main:Salcomp**  
**H**



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### Radiated Emission Measurement



Site : 9'6" Chamber Polarization: **Vertical** Temperature: 25 °C  
Limit: FCC Class B 3M Radiation Power: AC 120V/60Hz Humidity: 60%  
EUT: MobilePhone Distance: 3m Air Pressure: 1002 hpa  
MN: ST23a  
Note: Config 2: UE+Battery+AC Adaptor+USB Cable+SHF+FULL System ; Recording  
20% battery capacity

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	30.0000	50.61	-17.25	33.36	40.00	-6.64	QP	
2		66.1000	42.68	-17.43	25.25	40.00	-14.75	QP	
3		157.3000	35.65	-14.23	21.42	43.50	-22.08	QP	
4		193.2500	39.50	-16.06	23.44	43.50	-20.06	QP	
5		466.3600	28.63	-8.69	19.94	46.00	-26.06	QP	
6		617.4500	29.30	-6.02	23.28	46.00	-22.72	QP	

\*:Maximum data x:Over limit !:over margin

●Reference Only

File : EI40005Data : #29

Page : 1

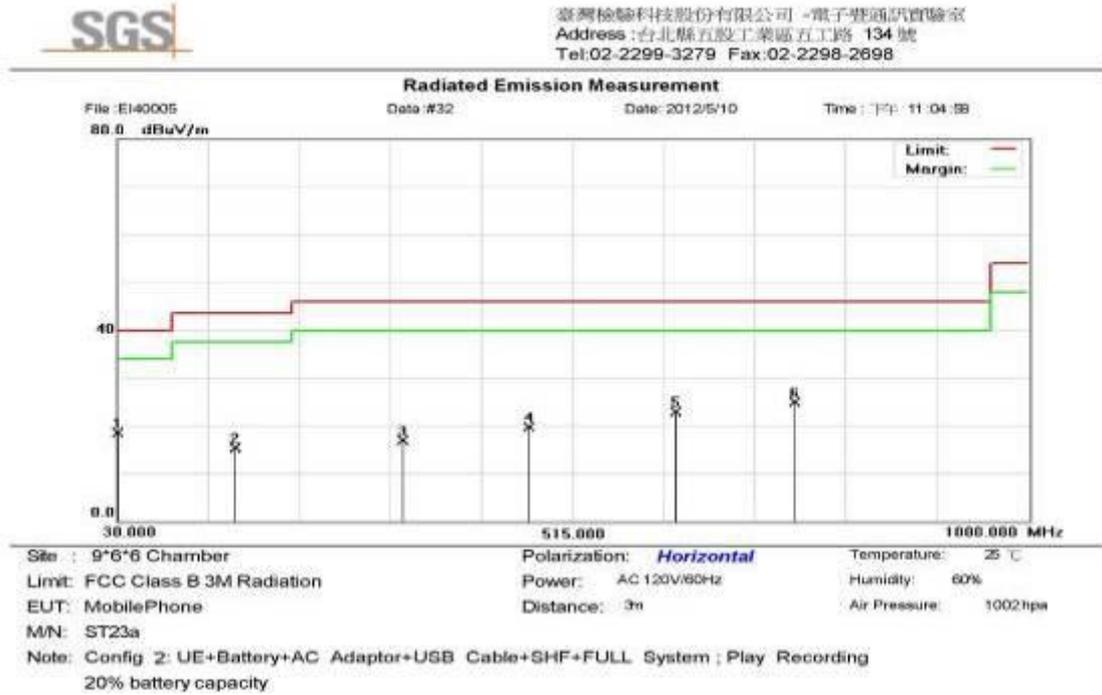
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**Config 2:Play Recording**  
**Main:Salcomp**  
**H**



No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		30.0000	35.83	-17.25	18.58	40.00	-21.42	OP	
2		155.3800	29.60	-14.23	15.37	43.50	-28.13	OP	
3		334.1500	28.50	-11.57	16.93	46.00	-29.07	OP	
4		467.1300	28.41	-8.71	19.70	46.00	-26.30	OP	
5		625.3500	28.65	-5.70	22.95	46.00	-23.05	OP	
6	*	751.3100	27.10	-2.14	24.96	46.00	-21.04	OP	

\*:Maximum data x:Over limit !:over margin •ReferenceOnly

File:EI40005>Data:#32

Page: 1

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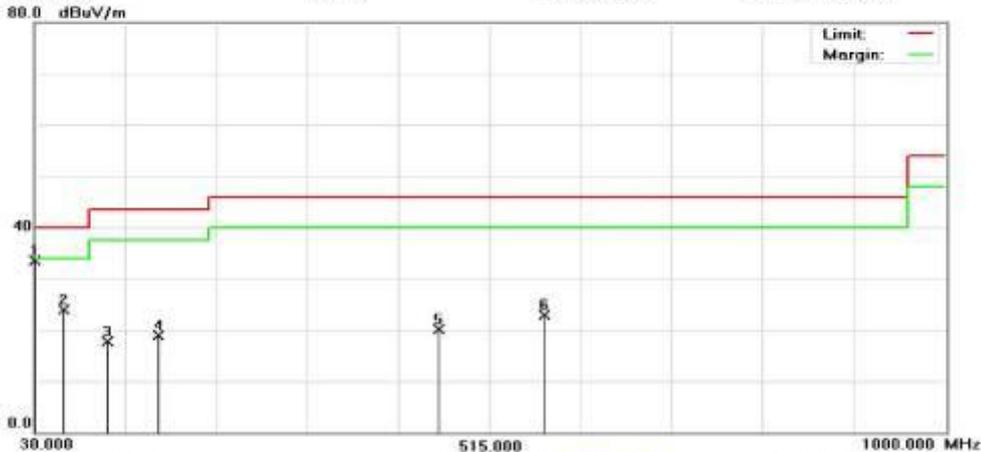
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Tel:02-2299-3279 Fax:02-2298-2698

### Radiated Emission Measurement

File : EI40005 Data : #31 Date : 2012/5/10 Time : 10:50:03



Site : 9'6" x 6' Chamber Polarization: **Vertical** Temperature: 25 °C  
Limit: FCC Class B 3M Radiation Power: AC 120V/60Hz Humidity: 60%  
EUT: MobilePhone Distance: 3m Air Pressure: 1002 hpa  
MN: ST23a  
Note: Config 2: UE+Battery+AC Adaptor+USB Cable+SHF+FULL System ; Play Recording  
20% battery capacity

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	30.0000	50.81	-17.25	33.56	40.00	-6.44	QP	
2		59.3300	40.21	-16.31	23.90	40.00	-16.10	QP	
3		107.1200	35.56	-17.78	17.78	43.50	-25.72	QP	
4		161.2300	33.10	-14.22	18.88	43.50	-24.62	QP	
5		460.1200	28.60	-8.54	20.06	46.00	-25.94	QP	
6		572.2600	29.50	-6.58	22.92	46.00	-23.08	QP	

\*:Maximum data x:Over limit !:over margin ●:Reference Only

File : EI40005\Data : #31

Page : 1

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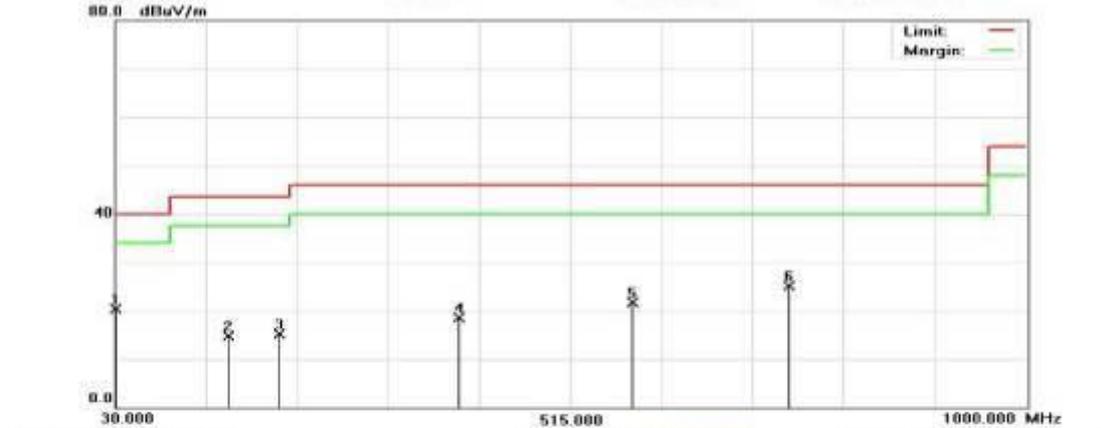
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Config 2:MP3  
Main:Salcomp  
H

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Tel:02-2299-3279 Fax:02-2298-2698

**Radiated Emission Measurement**  
File :EI40005 Data :#34 Date :2012/5/10 Time :下午 11:30:00



Site : 9'6"6 Chamber Polarization: **Horizontal** Temperature: 25 °C  
Limit: FCC Class B 3M Radiation Power: AC 120V/60Hz Humidity: 60%  
EUT: MobilePhone Distance: 3m Air Pressure: 1002 hpa  
MN: ST23a  
Note: Config 2: UE+Battery+AC Adaptor+USB Cable+SHF+FULL System ; MP3  
20% battery capacity

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	30.0000	37.51	-17.25	20.26	40.00	-19.74	OP	
2		148.3500	28.95	-14.31	14.64	43.50	-28.86	OP	
3		203.6500	31.40	-16.22	15.18	43.50	-28.32	OP	
4		395.2500	28.53	-10.10	18.43	46.00	-27.57	OP	
5		579.2100	27.90	-6.17	21.73	46.00	-24.27	OP	
6		746.3500	27.40	-2.36	25.04	46.00	-20.96	OP	

\*:Maximum data x:Over limit !:over margin #Reference Only

File :EI40005>Data :#34 Page: 1 Engineer Signature:

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**Radiated Emission Measurement**



File : EI40005 Data : #33 Date : 2012/5/10 Time : 11:18:12

Site : 9'6" Chamber Polarization: **Vertical** Temperature: 25 °C  
 Limit: FCC Class B 3M Radiation Power: AC 120V/60Hz Humidity: 60%  
 EUT: MobilePhone Distance: 3m Air Pressure: 1002 hpa  
 MN: ST23a  
 Note: Config 2: UE+Battery+AC Adaptor+USB Cable+SHF+FULL System ; MP3  
 20% battery capacity

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	30.0000	50.45	-17.25	33.20	40.00	-6.80	QP	
2		61.2300	39.53	-16.56	22.97	40.00	-17.03	QP	
3		107.1200	35.20	-17.78	17.42	43.50	-26.08	QP	
4		161.2300	33.15	-14.22	18.93	43.50	-24.57	QP	
5		225.3000	34.10	-15.06	19.04	46.00	-26.96	QP	
6		585.3600	29.20	-6.35	22.85	46.00	-23.15	QP	

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File : EI40005\Data : #33

Page : 1

Engineer Signature:

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Config 3 : FM 87.6

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 Tel:02-2299-3279 Fax:02-2298-2698

Radiated Emission Measurement



File : Mesona\_2012-07-07 Data : #16 Date : 2012/7/7 Time : 下午 03:33:49  
 Site : 968 Chamber Polarization: **Horizontal** Temperature: 25 °C  
 Limit: FCC Class B 3M Radiation Power: AC 120V/60Hz Humidity: 60%  
 EUT: MobilePhone Distance: 3m  
 MN: PM-0190-BV  
 Mode: FM:87.6  
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	45.3600	34.67	-15.89	18.78	40.00	-21.22	QP	
2		109.5600	34.62	-17.36	17.26	43.50	-26.24	QP	
3		137.4300	35.18	-14.98	20.20	43.50	-23.30	QP	
4		172.8400	28.76	-14.37	14.39	43.50	-29.11	QP	
5		316.5900	27.51	-11.99	15.52	46.00	-30.48	QP	
6		382.1600	27.68	-10.27	17.41	46.00	-28.59	QP	

\*:Maximum data x:Over limit !:over margin ●ReferenceOnly

File : Mesona\_2012-07-07>Data : #16

Page : 1

Engineer Signature:

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Tel:02-2299-3279 Fax:02-2298-2698

### Radiated Emission Measurement



File : Mesona\_2012-07-07 Data : #14 Date : 2012/7/7 Time : 下午 05:31:14  
Site : 968 Chamber Polarization: **Vertical** Temperature: 25 °C  
Limit: FCC Class B 3M Radiation Power: AC 120V/60Hz Humidity: 60%  
EUT: MobilePhone Distance: 3m  
MN: PM-0190-BV  
Mode: FM:87.6  
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	32.6000	46.25	-17.13	29.12	40.00	-10.88	QP	
2		45.1600	44.86	-15.91	28.95	40.00	-11.05	QP	
3		122.0300	35.64	-16.22	19.42	43.50	-24.08	QP	
4		263.7500	28.91	-13.42	15.49	46.00	-30.51	QP	
5		341.2900	27.52	-11.30	16.22	46.00	-29.78	QP	
6		380.5400	31.60	-10.29	21.31	46.00	-24.69	QP	

\*:Maximum data x:Over limit !:over margin ●Reference Only

File : Mesona\_2012-07-07>Data : #14

Page : 1

Engineer Signature:

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Config 3 : FM 98

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 Tel:02-2299-3279 Fax:02-2298-2698

Radiated Emission Measurement



File : Mesona\_2012-07-07 Data : #20 Date : 2012/7/7 Time : 下午 05:44:13

Site : 966 Chamber Polarization: **Horizontal** Temperature: 25 °C  
 Limit: FCC Class B 3M Radiation Power: AC 120V/60Hz Humidity: 60%  
 EUT: MobilePhone Distance: 3m  
 MN: PM-0190-BV  
 Mode: FM98  
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	43.2900	36.49	-16.07	20.42	40.00	-19.58	QP	
2		127.4900	34.68	-15.79	18.89	43.50	-24.61	QP	
3		176.5300	30.71	-14.67	16.04	43.50	-27.46	QP	
4		278.4900	27.38	-12.78	14.60	46.00	-31.40	QP	
5		451.7600	27.69	-8.83	18.86	46.00	-27.14	QP	
6		671.9700	28.69	-4.43	24.26	46.00	-21.74	QP	

\*:Maximum data x:Over limit !:over margin •Reference Only

File : Mesona\_2012-07-07>Data : #20

Page: 1

Engineer Signature:

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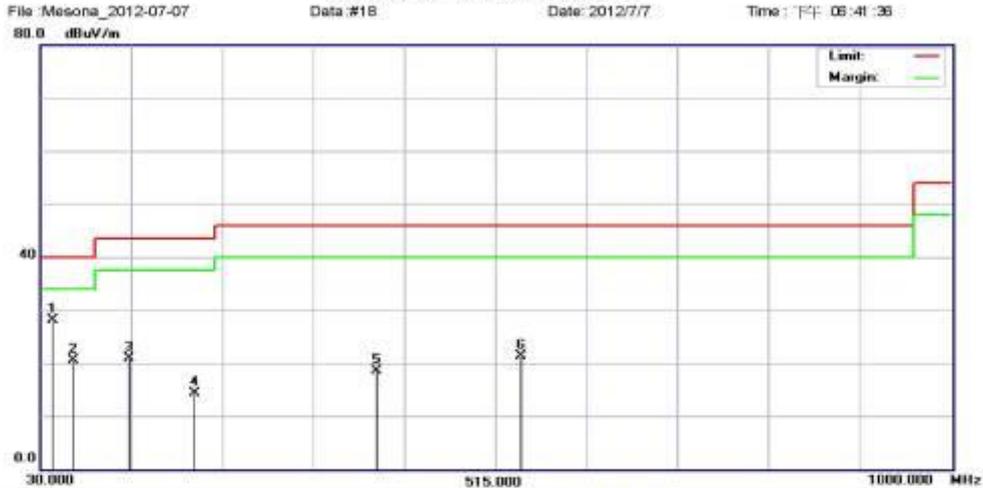
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### Radiated Emission Measurement



File : Mesona\_2012-07-07 Data : #18 Date : 2012/7/7 Time : 下午 05:41:35

Site : 966 Chamber Polarization: **Vertical** Temperature: 25 °C  
 Limit: FCC Class B 3M Radiation Power: AC 120V/60Hz Humidity: 60%  
 EUT: MobilePhone Distance: 3m  
 MN: PM-0190-BV  
 Mode: FM98  
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	42.1300	44.23	-16.18	28.05	40.00	-11.95	QP	
2		63.8600	37.45	-17.03	20.42	40.00	-19.58	QP	
3		124.9200	36.89	-15.99	20.90	43.50	-22.60	QP	
4		193.5600	30.47	-16.08	14.39	43.50	-29.11	QP	
5		387.6300	28.72	-10.20	18.52	46.00	-27.48	QP	
6		541.9800	28.40	-7.15	21.25	46.00	-24.75	QP	

\*:Maximum data x:Over limit !:over margin Reference Only

File : Mesona\_2012-07-07>Data : #18

Page : 1

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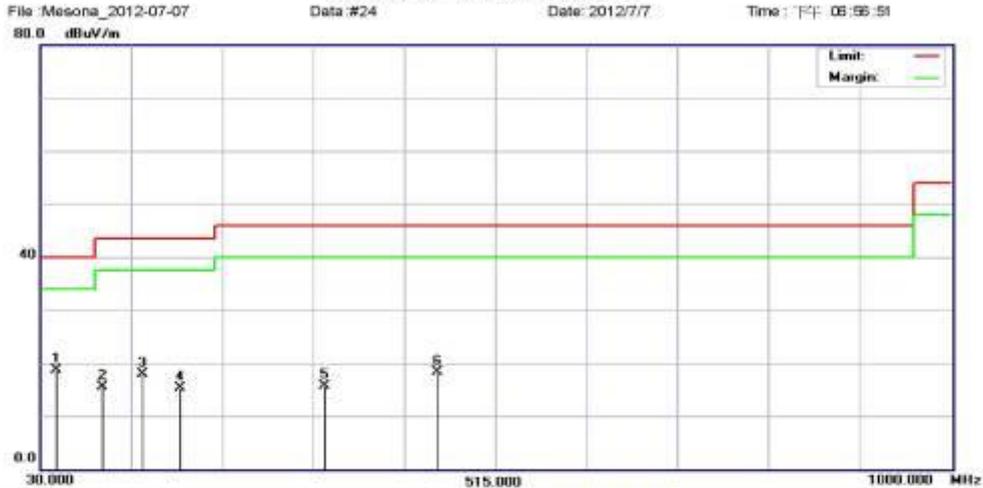
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Config 3 : FM 107.9

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Radiated Emission Measurement



File : Mesona\_2012-07-07 Data #24 Date: 2012/7/7 Time : 下午 05:55:51  
 Site : 96B Chamber Polarization: **Horizontal** Temperature: 25 °C  
 Limit: FCC Class B 3M Radiation Power: AC 120V/60Hz Humidity: 60%  
 EUT: MobilePhone Distance: 3m  
 MN: PM-0190-BV  
 Mode: FM:107.9  
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	46.7600	34.60	-15.82	18.78	40.00	-21.22	QP	
2		95.6300	35.31	-19.76	15.55	43.50	-27.95	QP	
3		137.4100	32.96	-14.98	17.98	43.50	-25.52	QP	
4		178.9000	30.26	-14.88	15.38	43.50	-28.12	QP	
5		331.6300	27.46	-11.70	15.76	46.00	-30.24	QP	
6		452.4300	27.19	-8.81	18.38	46.00	-27.62	QP	

\*:Maximum data x:Over limit !:over margin ●Reference Only

File : Mesona\_2012-07-07>Data :#24

Page: 1

Engineer Signature:

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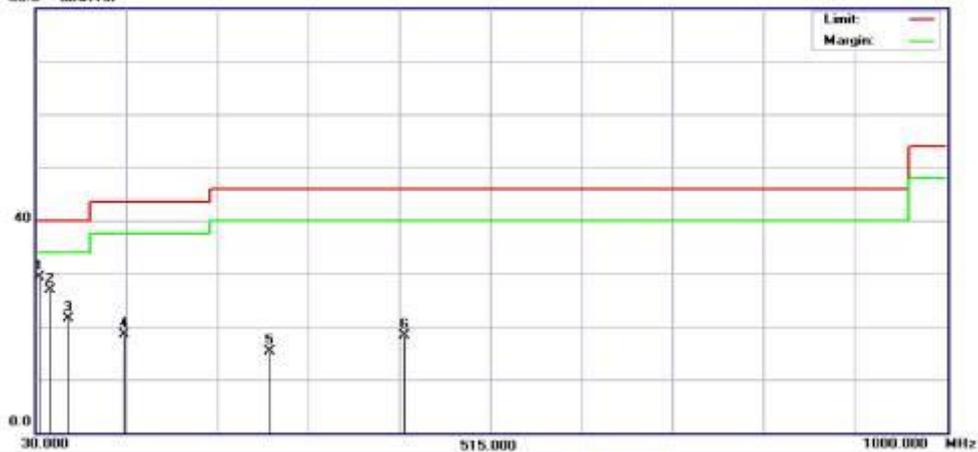
### Radiated Emission Measurement

File : Mesona\_2012-07-07  
 80.0 dBuV/m

Data : #22

Date : 2012/7/7

Time : 下午 05:54:13



Site : 966 Chamber      Polarization: **Vertical**      Temperature: 25 °C  
 Limit: FCC Class B 3M Radiation      Power: AC 120V/60Hz      Humidity: 60%  
 EUT: MobilePhone      Distance: 3m  
 MN: PM-0190-BV  
 Mode: FM:107.9  
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	32.4900	46.53	-17.13	29.40	40.00	-10.60	QP	
2		43.7600	42.84	-16.03	26.81	40.00	-13.19	QP	
3		64.5200	38.73	-17.15	21.58	40.00	-18.42	QP	
4		124.9300	34.42	-15.99	18.43	43.50	-25.07	QP	
5		279.6100	28.06	-12.74	15.32	46.00	-30.68	QP	
6		422.8600	27.69	-9.46	18.23	46.00	-27.77	QP	

\*:Maximum data    x:Over limit    !:over margin

■Reference Only

File : Mesona\_2012-07-07\Data :#22

Page: 1

Engineer Signature:

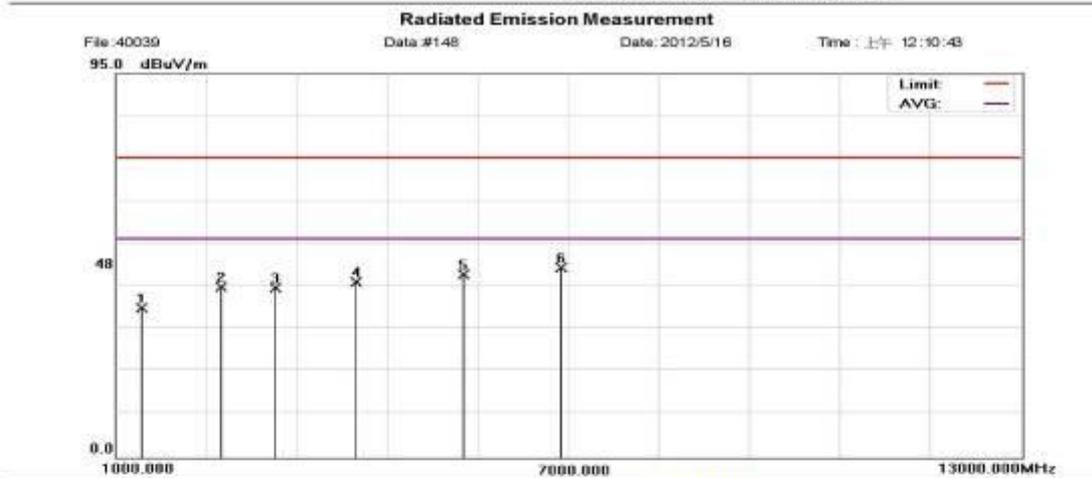
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Above 1G  
Config 1:Data Link  
H

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File:40039 Data:#148 Date:2012/5/16 Time:上午 12:10:43  
Site :966-2 Chamber Polarization: **Horizontal** Temperature: 25 °C  
Limit: FCC Class B 3M Radiation(1G-40G)(Pea Power: From System Humidity: 60%  
EUT: MobilePhone Distance:  
M/N: ST23a  
Mode: Config 1: UE+Battery+USB Cable+SHF : Data Link (120V/60Hz)  
Note: 30% battery capacity

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		1336.000	39.82	-2.80	37.02	74.00	-36.98	peak	
2		2392.000	40.09	2.14	42.23	74.00	-31.77	peak	
3		3112.000	38.49	3.53	42.02	74.00	-31.98	peak	
4		4192.000	37.98	5.35	43.33	74.00	-30.67	peak	
5		5608.000	37.65	7.62	45.27	74.00	-28.73	peak	
6	*	6904.000	37.60	9.28	46.88	74.00	-27.14	peak	

\*:Maximum data x:Over limit l:over margin ●ReferenceOnly

File:40039\Data:#148

Page: 1

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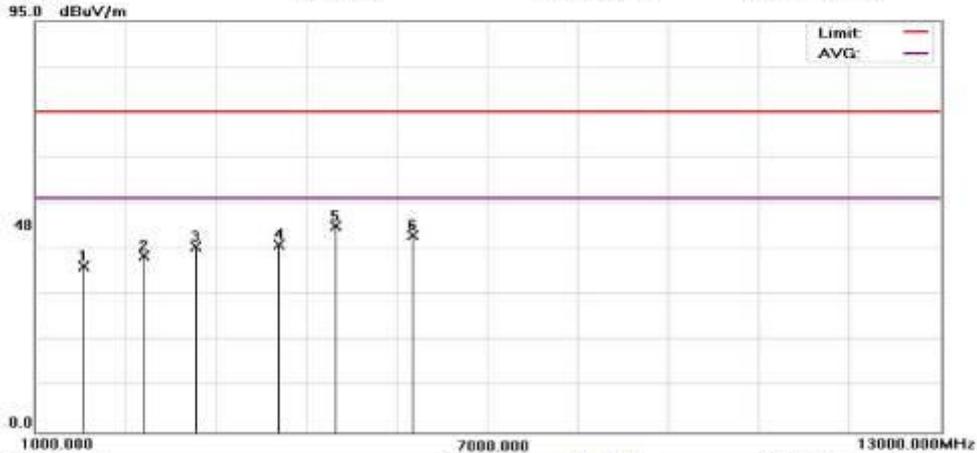
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### Radiated Emission Measurement

File :40039 Data #:147 Date: 2012/5/16 Time : 上午 12:00:34



Site :966-2 Chamber Polarization: **Vertical** Temperature: 25 °C  
Limit: FCC Class B 3M Radiation(1G-40G)(Pea Power: From System Humidity: 60%  
EUT: MobilePhone Distance:  
MN: ST23a  
Mode: Config 1: UE+Battery+USB Cable+SHF ; Data Link (120V/60Hz)  
Note: 30% battery capacity

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		1648.000	39.84	-1.60	38.24	74.00	-35.76	peak	
2		2440.000	38.36	2.26	40.62	74.00	-33.38	peak	
3		3136.000	39.22	3.56	42.78	74.00	-31.22	peak	
4		4240.000	37.95	5.40	43.35	74.00	-30.65	peak	
5	*	4984.000	40.99	6.72	47.71	74.00	-26.29	peak	
6		6016.000	37.14	8.46	45.60	74.00	-28.40	peak	

\*:Maximum data x:Over limit !:over margin ●ReferenceOnly

File :40039\Data:#147

Page: 1

Engineer Signature:

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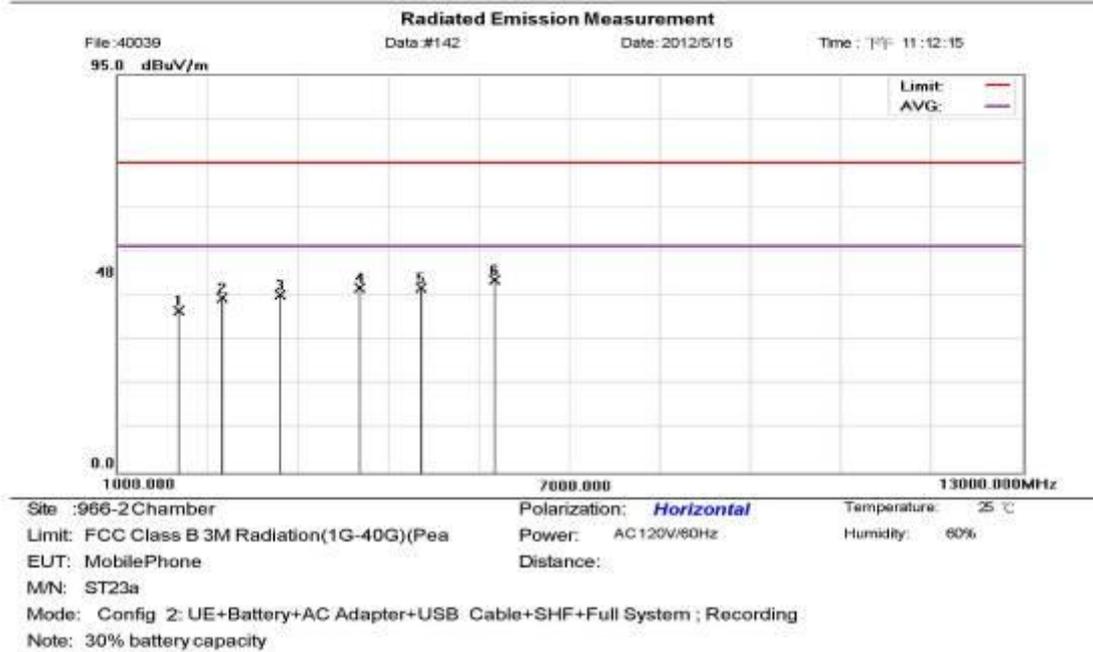
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**Main:Salcomp**  
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		1816.000	39.03	-0.43	38.60	74.00	-35.40	peak	
2		2392.000	39.65	2.14	41.79	74.00	-32.21	peak	
3		3160.000	38.84	3.60	42.44	74.00	-31.56	peak	
4		4216.000	38.57	5.38	43.95	74.00	-30.05	peak	
5		5032.000	37.38	6.78	44.16	74.00	-29.84	peak	
6	*	6016.000	37.58	8.46	46.04	74.00	-27.96	peak	

\*:Maximum data    x:Over limit    !:over margin

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File:40039\Data:#142

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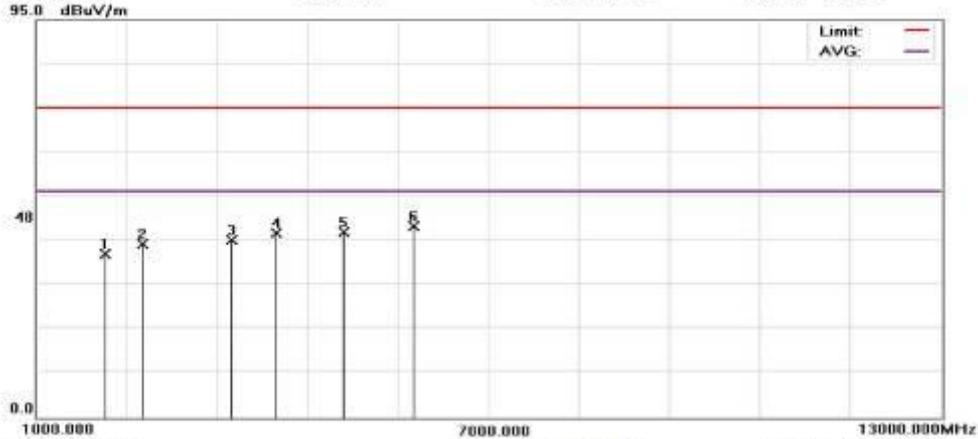
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**Radiated Emission Measurement**

File:40039 Data:#141 Date:2012/5/15 Time:下午 11:03:35



Site :966-2 Chamber Polarization: **Vertical** Temperature: 25 °C  
 Limit: FCC Class B 3M Radiation(1G-40G)(Pea Power: AC120V/60Hz Humidity: 60%  
 EUT: MobilePhone Distance:  
 MN: ST23a  
 Mode: Config 2: UE+Battery+AC Adapter+USB Cable+SHF+Full System ; Recording  
 Note: 30% battery capacity

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		1912.000	38.80	0.37	39.17	74.00	-34.83	peak	
2		2416.000	39.31	2.21	41.52	74.00	-32.48	peak	
3		3592.000	37.85	4.43	42.28	74.00	-31.72	peak	
4		4192.000	38.63	5.35	43.98	74.00	-30.02	peak	
5		5080.000	37.50	6.85	44.35	74.00	-29.65	peak	
6	*	6016.000	37.27	8.46	45.73	74.00	-28.27	peak	

\*:Maximum data x:Over limit !:over margin ●ReferenceOnly

File :40039\Data:#141

Page: 1

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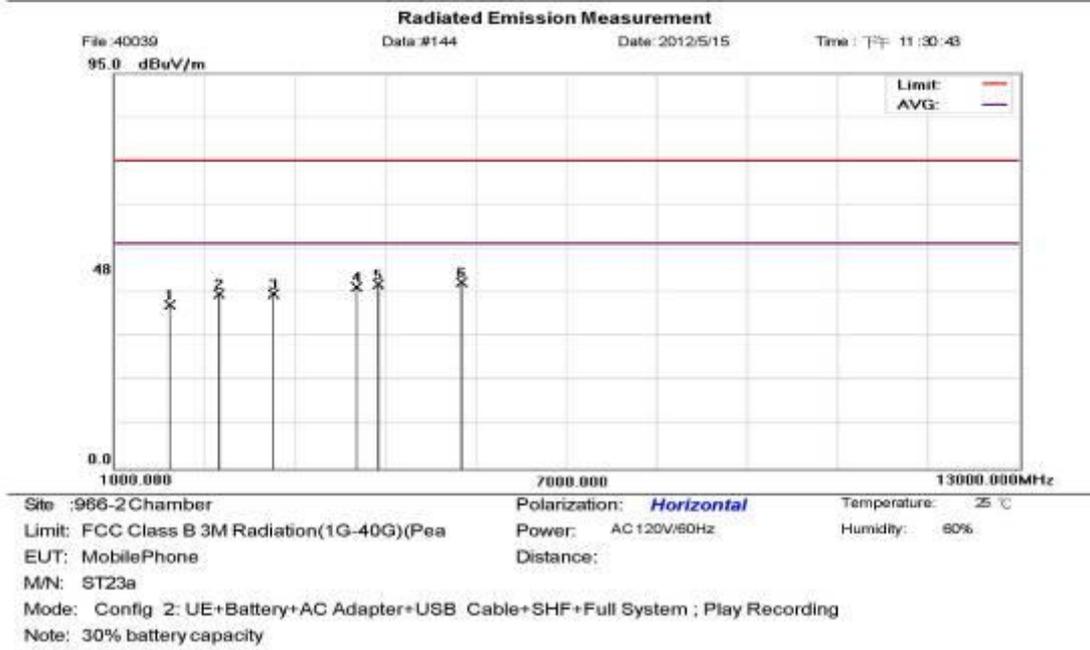
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		1744.000	40.42	-1.03	39.39	74.00	-34.61	peak	
2		2392.000	39.79	2.14	41.93	74.00	-32.07	peak	
3		3112.000	38.34	3.53	41.87	74.00	-32.13	peak	
4		4216.000	38.14	5.38	43.52	74.00	-30.48	peak	
5		4504.000	38.19	6.00	44.19	74.00	-29.81	peak	
6	*	5608.000	37.26	7.62	44.88	74.00	-29.12	peak	

\*:Maximum data    x:Over limit    !:over margin      ■:ReferenceOnly

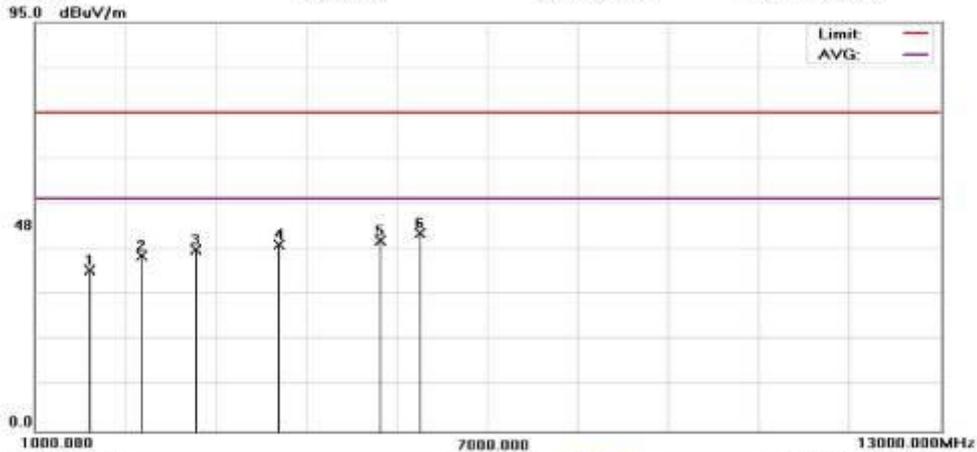
File:40039>Data:#144      Page: 1      Engineer Signature:

V

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 Address : 台北縣五股工業區五工路 134 號  
 Tel:02-2299-3279 Fax:02-2298-2698

**Radiated Emission Measurement**

File :40039 Data #143 Date: 2012/5/15 Time : 下午 11:21:13



Site :966-2 Chamber Polarization: **Vertical** Temperature: 25 °C  
 Limit: FCC Class B 3M Radiation(1G-40G)(Pea Power: AC120V/60Hz Humidity: 60%  
 EUT: MobilePhone Distance:  
 MN: ST23a  
 Mode: Config 2: UE+Battery+AC Adapter+USB Cable+SHF+Full System ; Play Recording  
 Note: 30% battery capacity

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		1720.000	38.67	-1.17	37.50	74.00	-36.50	peak	
2		2416.000	38.57	2.21	40.78	74.00	-33.22	peak	
3		3136.000	38.55	3.56	42.11	74.00	-31.89	peak	
4		4240.000	37.97	5.40	43.37	74.00	-30.63	peak	
5		5584.000	36.77	7.59	44.36	74.00	-29.64	peak	
6	*	6112.000	37.27	8.60	45.87	74.00	-28.13	peak	

\*:Maximum data x:Over limit !:over margin ●ReferenceOnly

File:40039>Data:#143

Page: 1

Engineer Signature:

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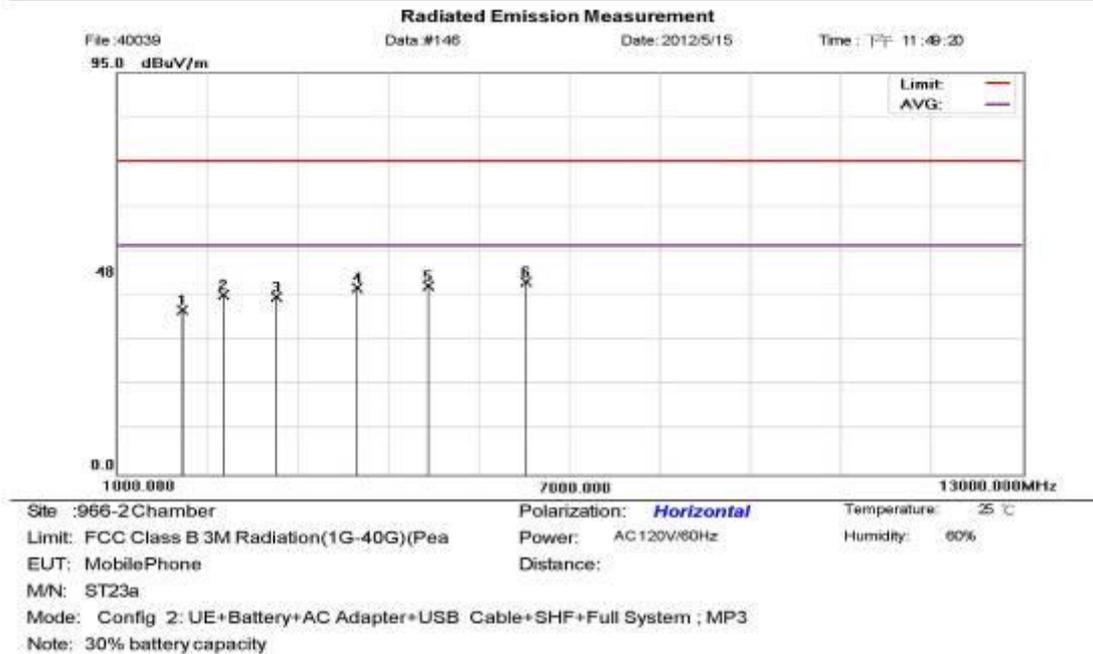
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Config 2:MP3  
Main:Salcomp  
H

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Tel:02-2299-3279 Fax:02-2298-2698



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		1864.000	38.97	-0.02	38.95	74.00	-35.05	peak	
2		2416.000	40.10	2.21	42.31	74.00	-31.69	peak	
3		3112.000	38.32	3.53	41.85	74.00	-32.15	peak	
4		4192.000	38.62	5.35	43.97	74.00	-30.03	peak	
5		5128.000	37.56	6.92	44.48	74.00	-29.52	peak	
6	*	6424.000	36.61	8.91	45.52	74.00	-28.48	peak	

\*:Maximum data    x:Over limit    !:over margin      ●ReferenceOnly

File :40039\Data :#146

Page: 1

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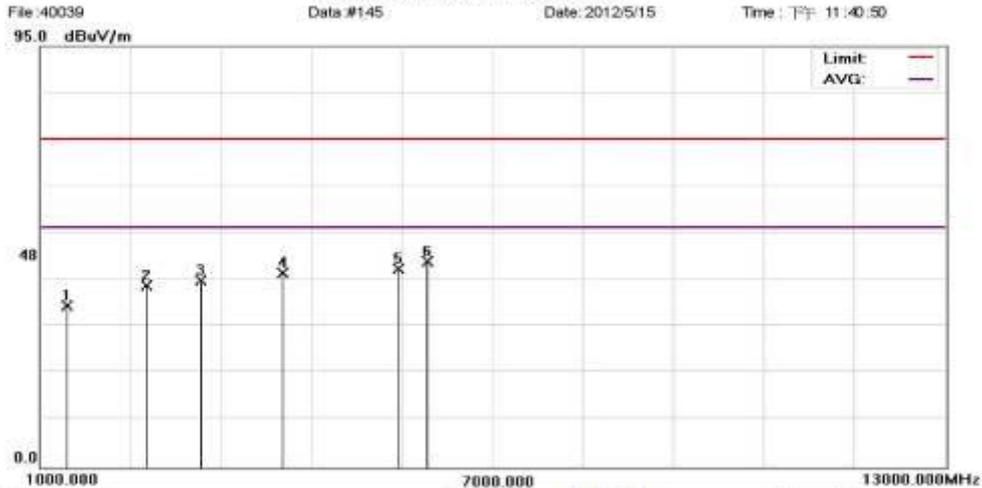
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 Address : 台北縣五股工業區五工路 134 號  
 Tel:02-2299-3279 Fax:02-2298-2698

**Radiated Emission Measurement**



Site : 966-2 Chamber      Polarization: **Vertical**      Temperature: 25 °C  
 Limit: FCC Class B 3M Radiation(1G-40G)(Pea      Power: AC120V/60Hz      Humidity: 80%  
 EUT: MobilePhone      Distance:  
 M/N: ST23a  
 Mode: Config 2: UE+Battery+AC Adapter+USB Cable+SHF+Full System ; MP3  
 Note: 30% battery capacity

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		1360.000	39.29	-2.75	36.54	74.00	-37.46	peak	
2		2416.000	38.72	2.21	40.93	74.00	-33.07	peak	
3		3136.000	38.52	3.56	42.08	74.00	-31.92	peak	
4		4216.000	38.49	5.38	43.87	74.00	-30.13	peak	
5		5752.000	36.91	7.81	44.72	74.00	-29.28	peak	
6	*	6136.000	37.79	8.63	46.42	74.00	-27.58	peak	

\*:Maximum data    x:Over limit    !:over margin      ●:ReferenceOnly

File :40039\Data:#145

Page: 1

Engineer Signature:

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### 3. Photographs of Test

CE:

Config 1



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## Config 2



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### Config 3

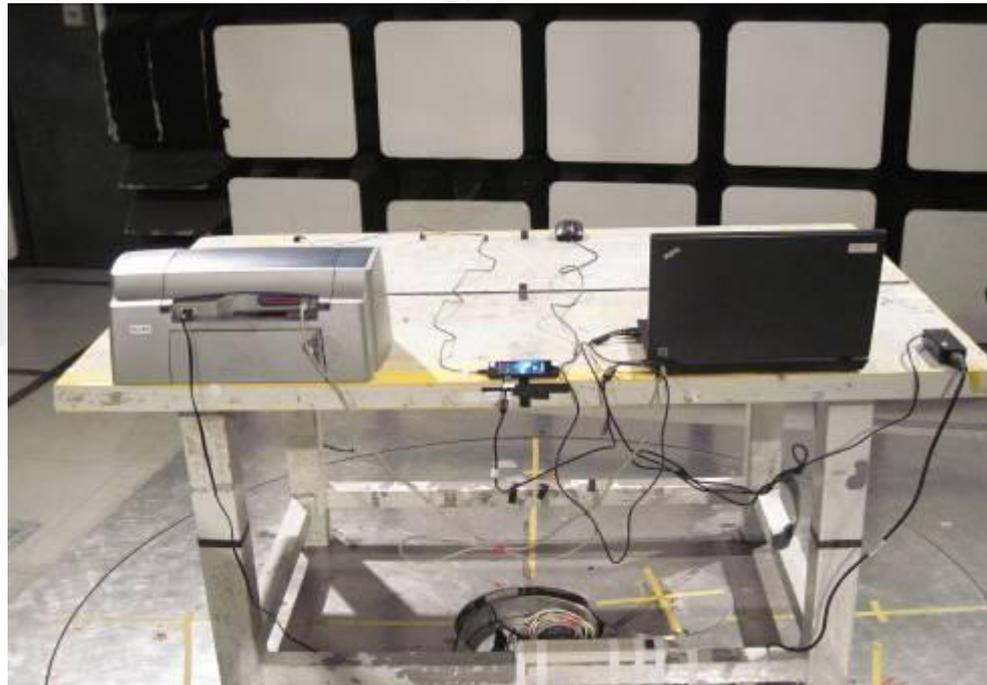


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RE:  
Below 1G  
Config 1

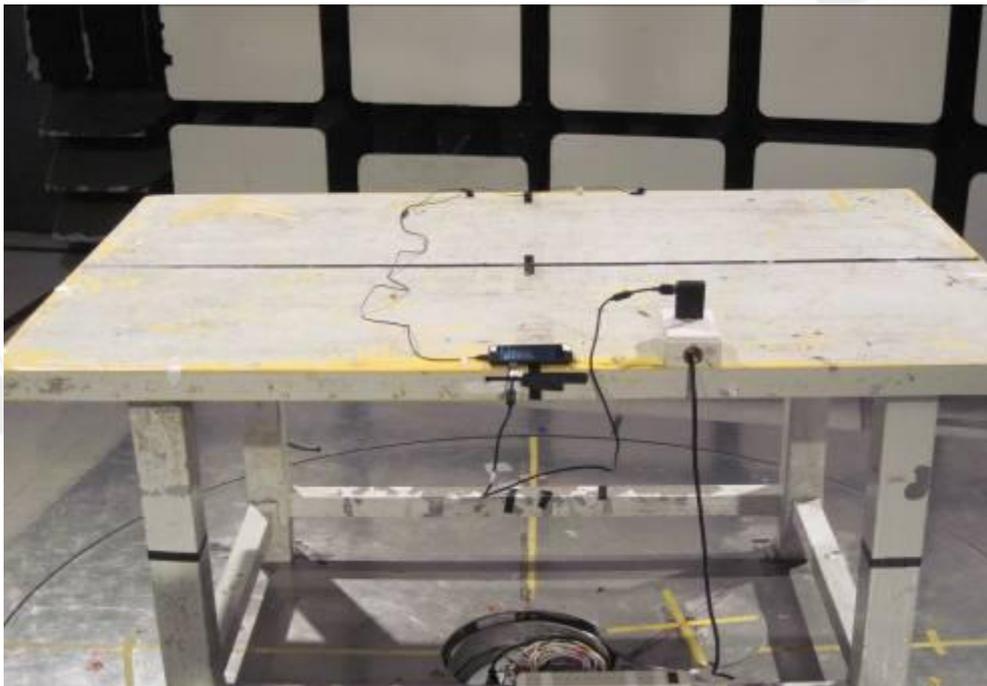


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## Config 2

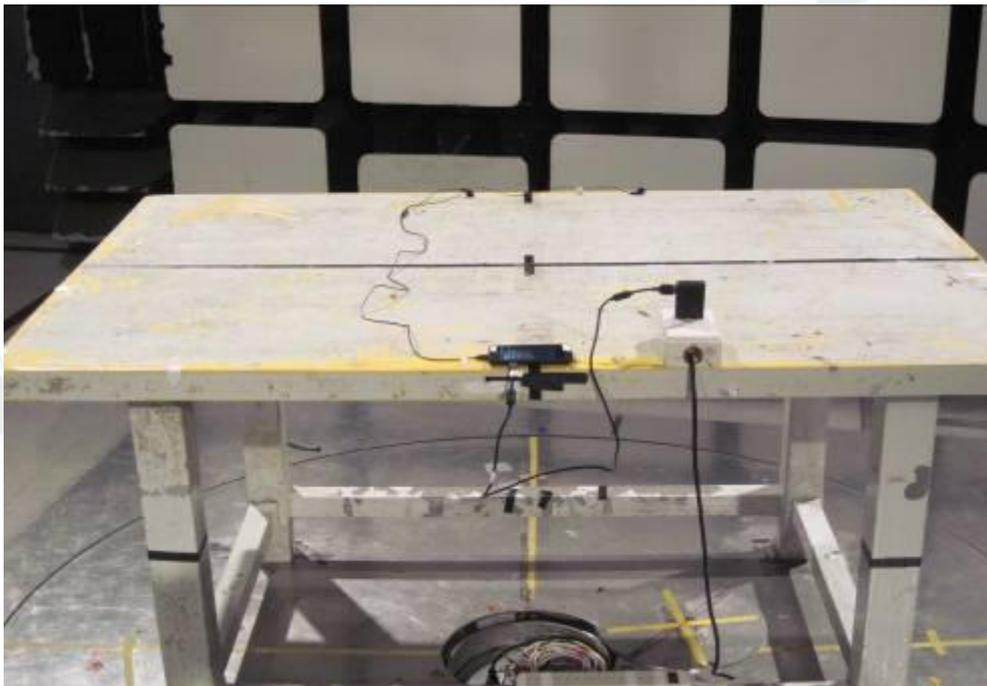


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## Config 3



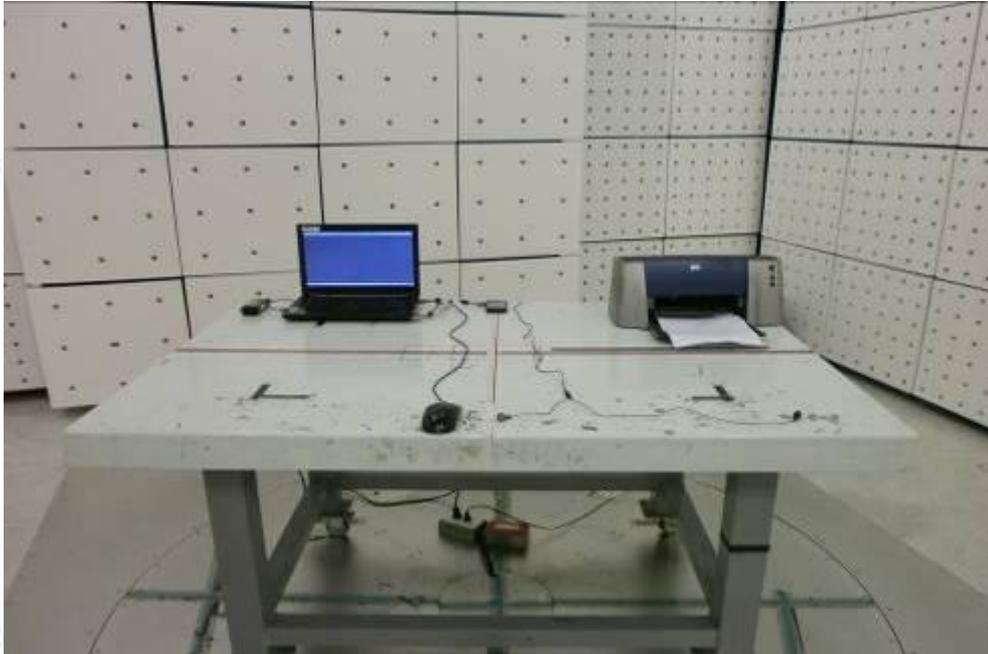
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Above 1G

Config 1

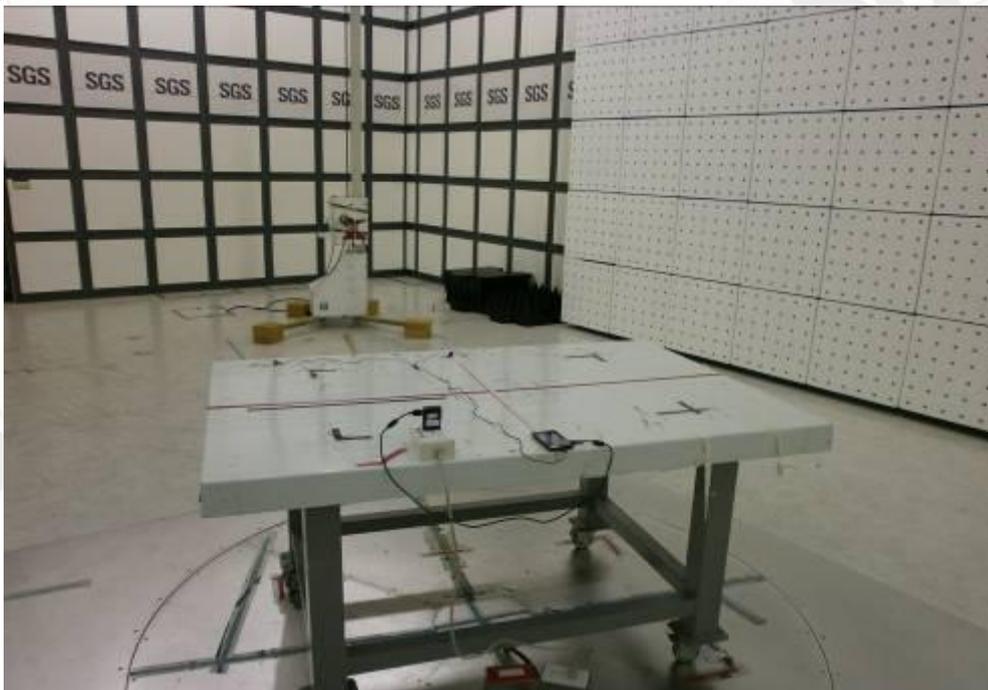


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## Config 2

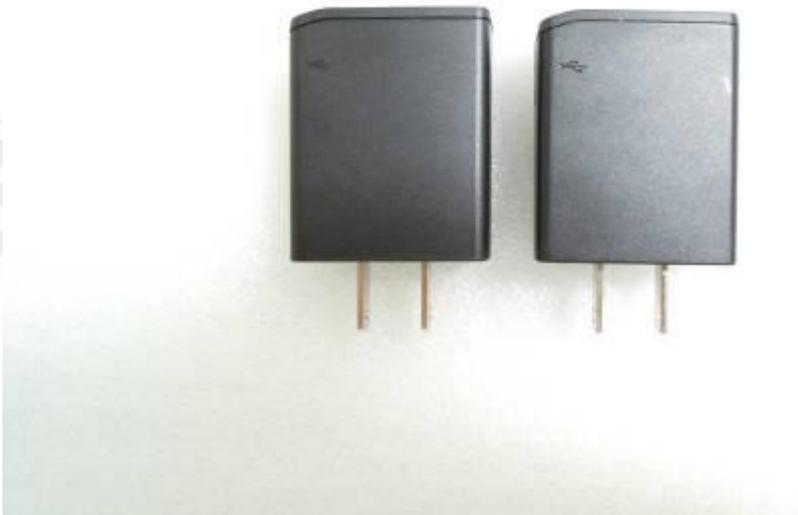


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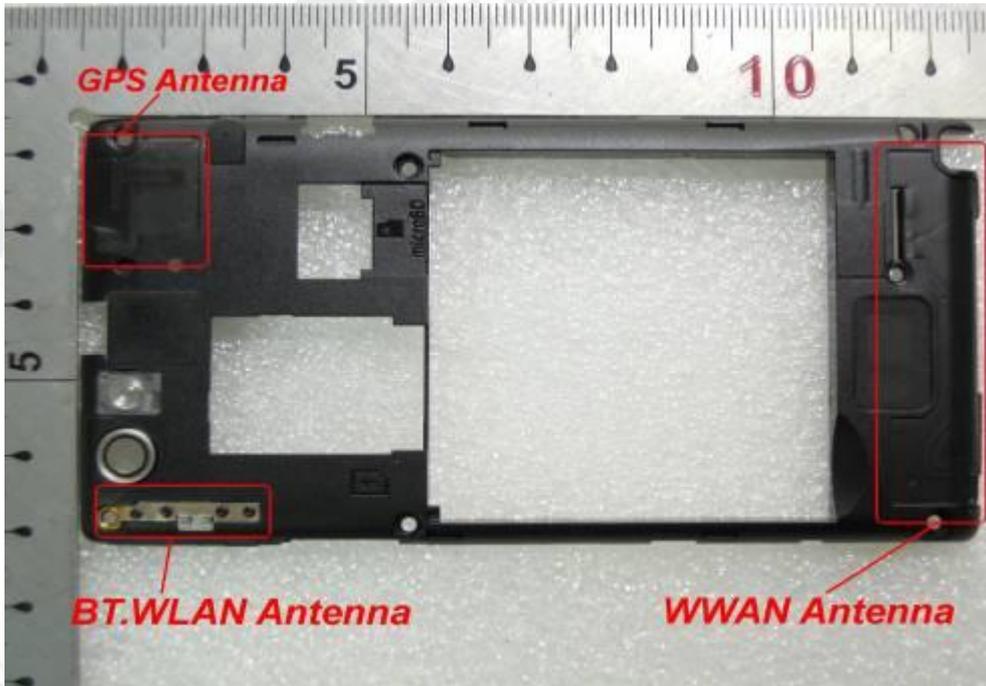


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## Interior



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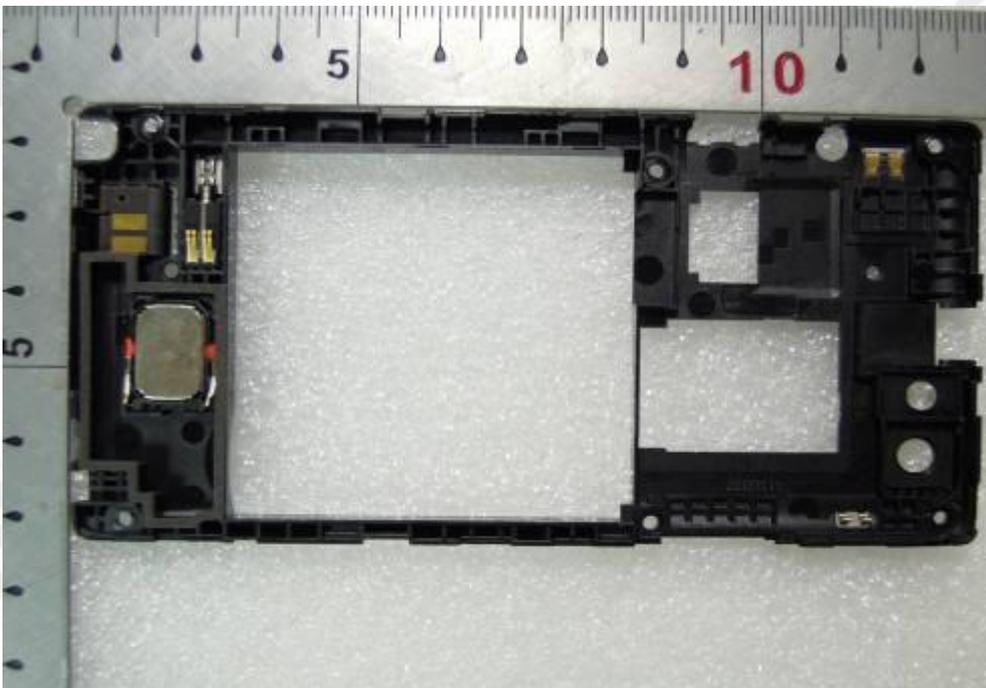
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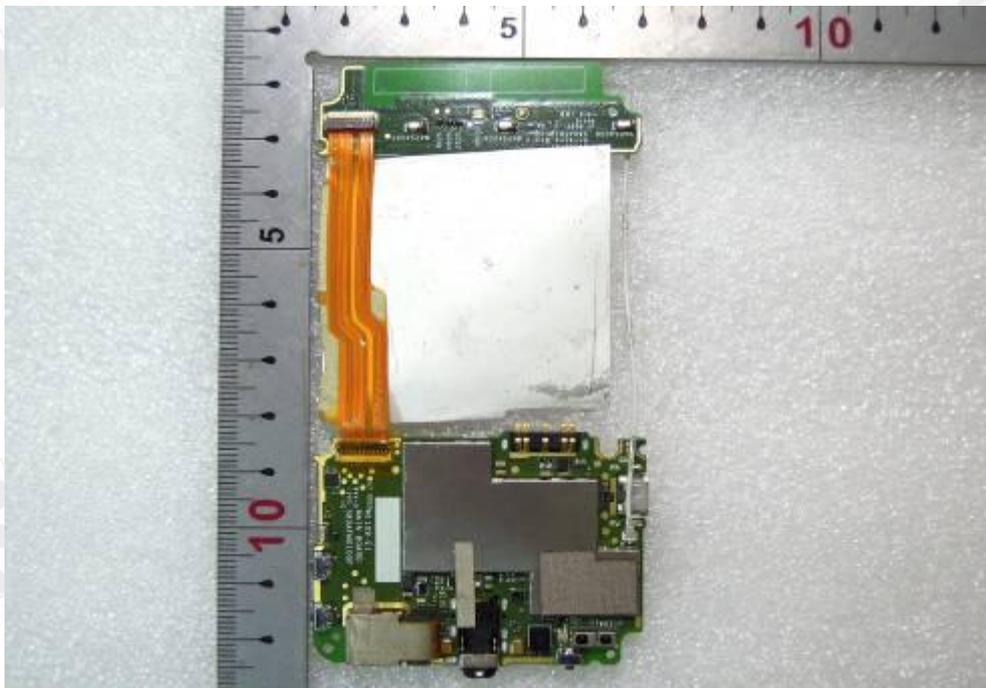
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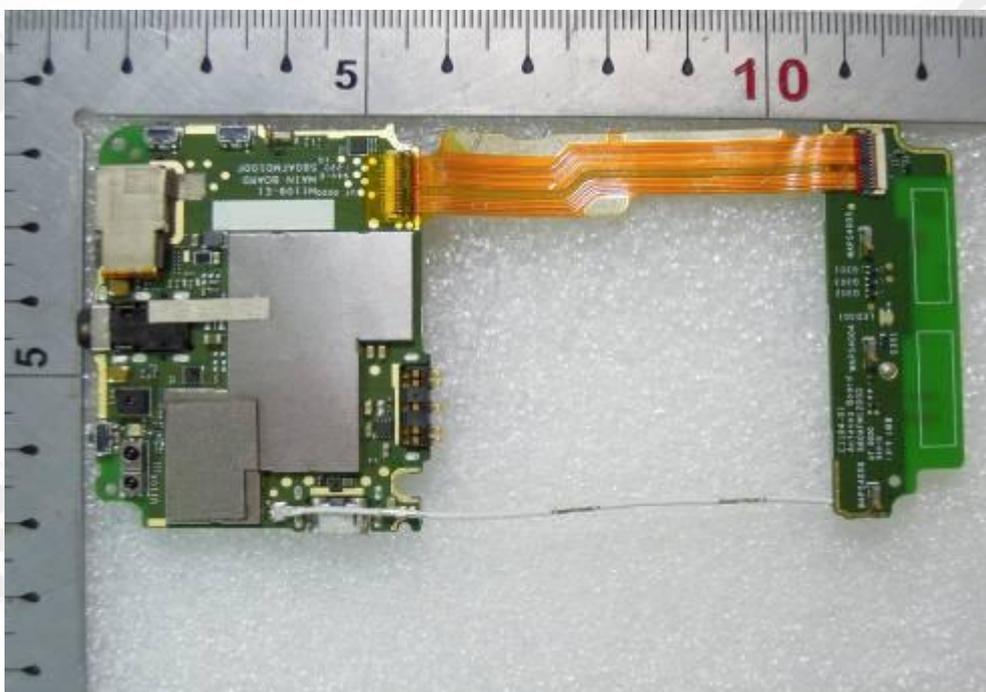
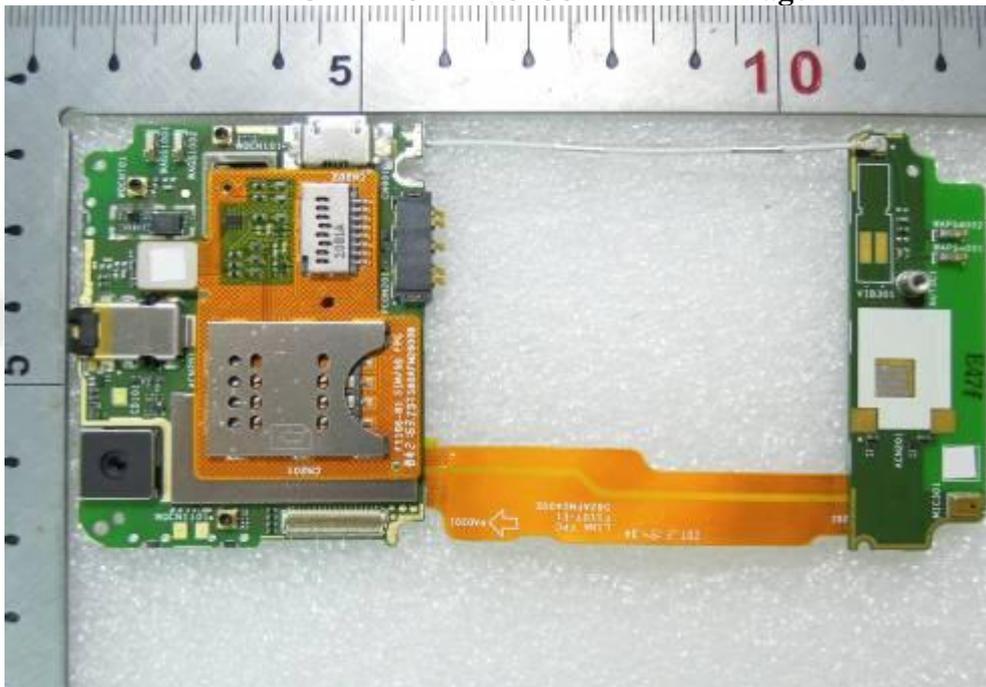
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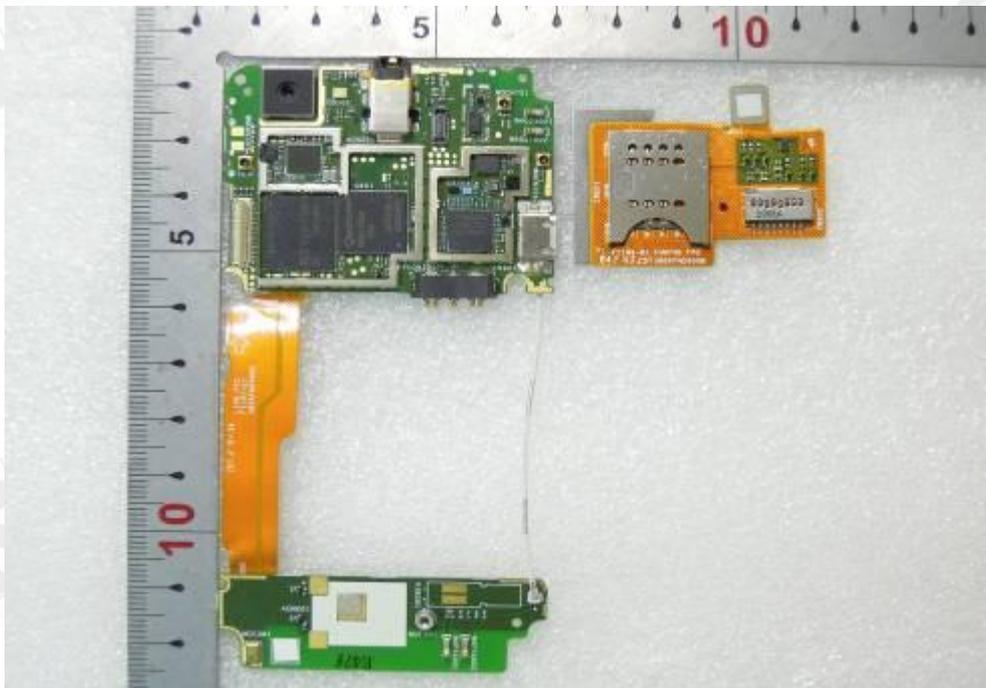
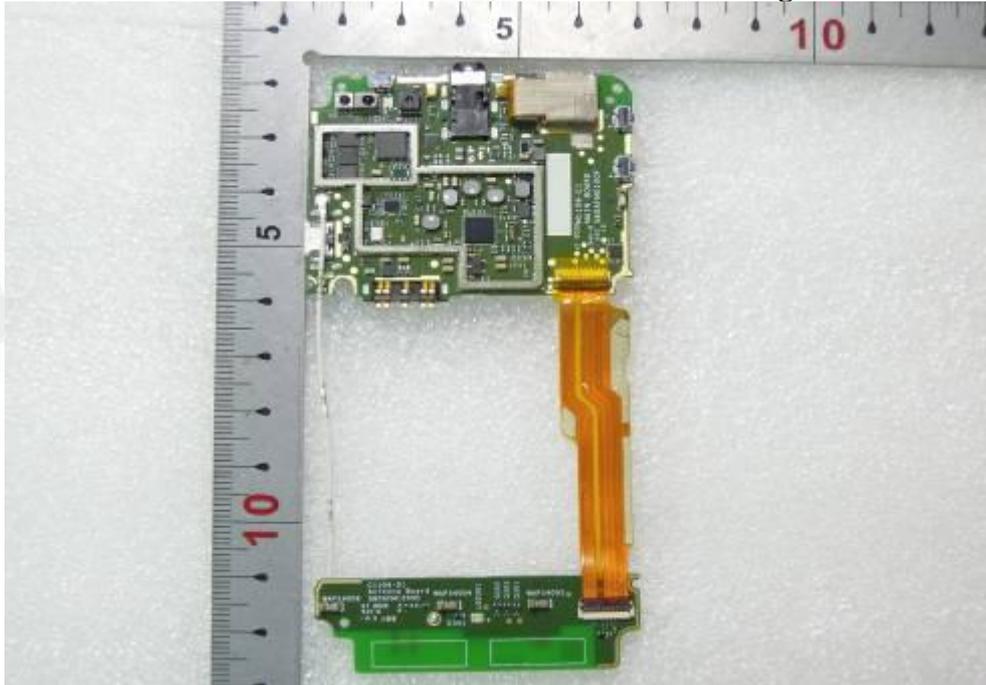
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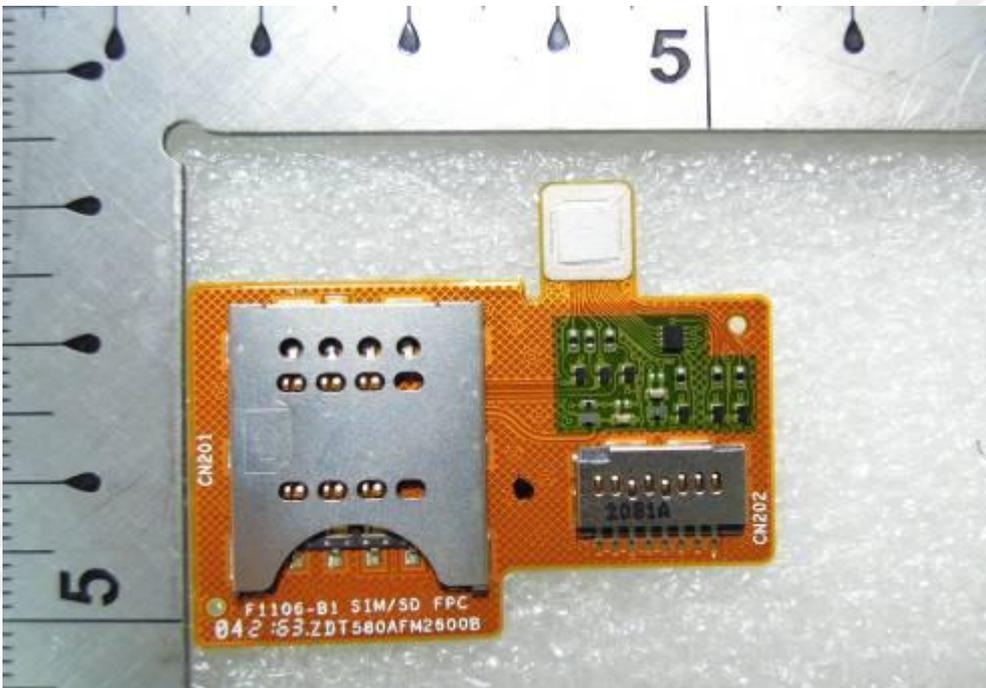
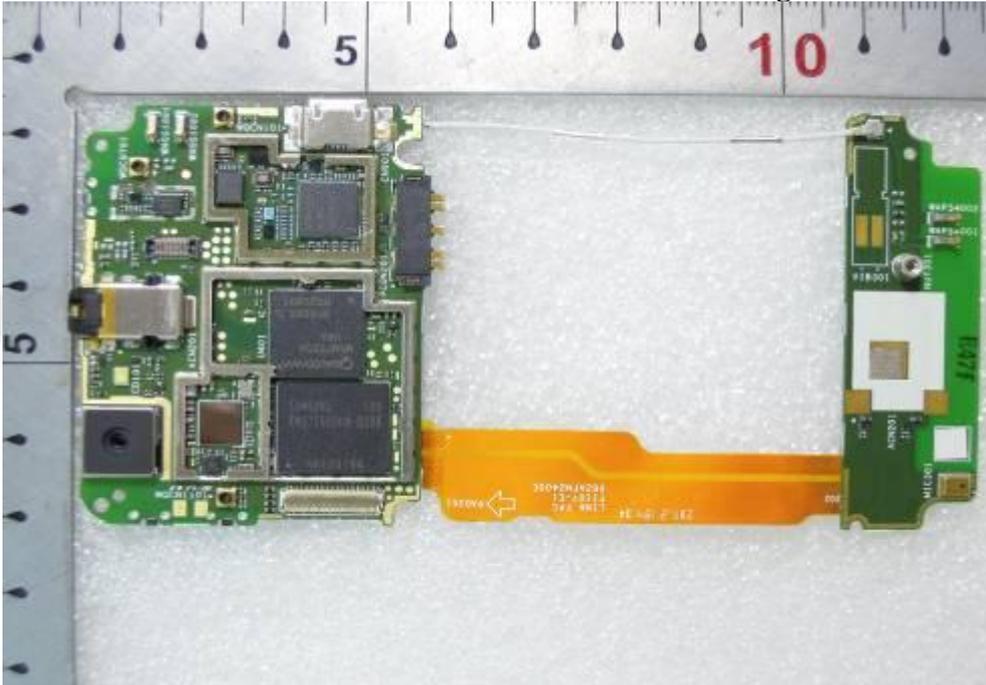
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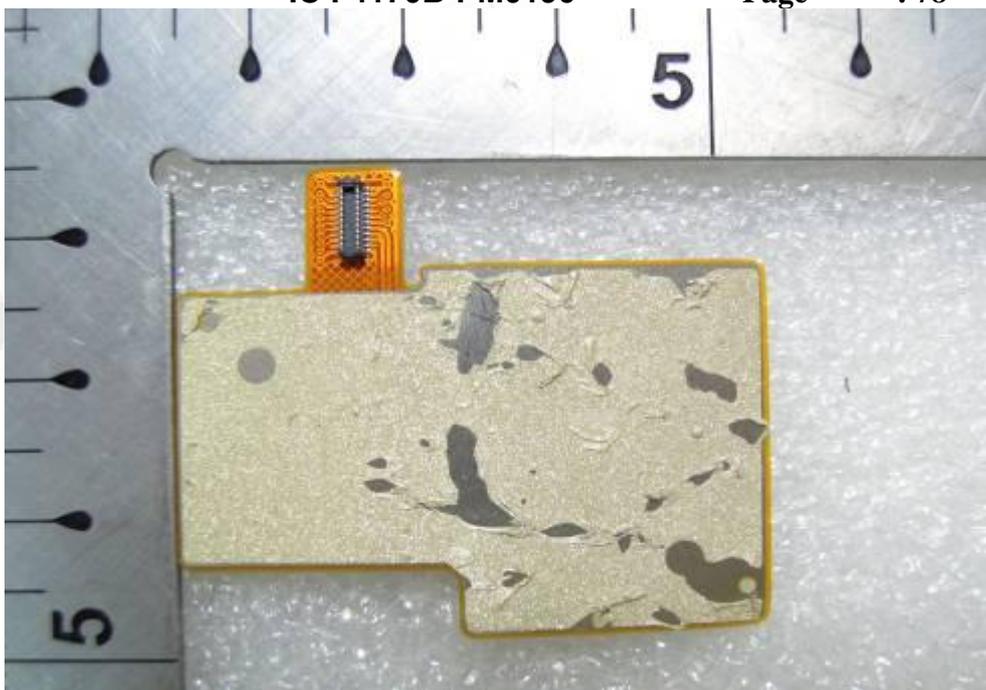
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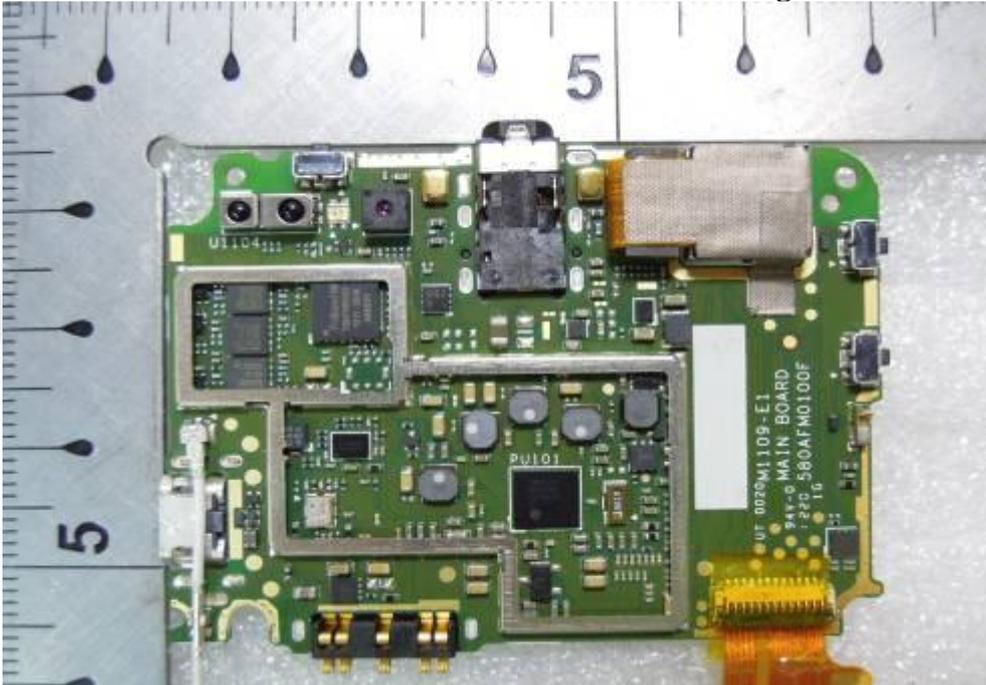
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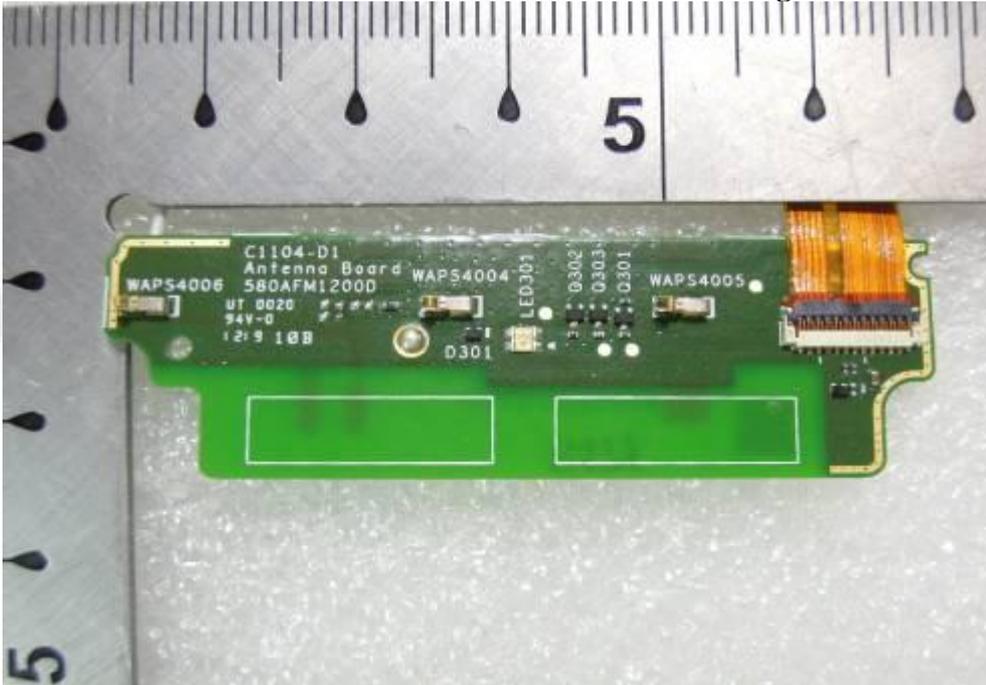
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