

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

## UN-INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART B CERTIFICATION REQUIREMENT

OF

**Product Name:** mIDentity 3G

**Brand Name:** Option

**Model Name:** GI0653

**Model Difference:** N/A

**FCC ID:** NCMOGI0653

**Report No.:** EI/2010/90006

**Issue Date:** Oct. 29, 2010

**FCC Rule Part:** Part 15 B, Class B

**Filing Type:** Certification

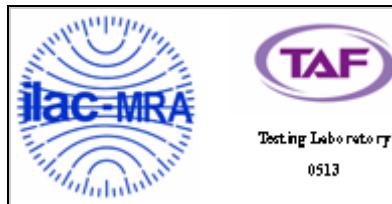
**Prepared for:** Option NV

Gaston Geenslaan 14, 3001 Leuven, Belgium

**Prepared by:** SGS Taiwan Ltd.

Electronics & Communication Laboratory

No. 134, Wu Kung Rd., Wuku Industrial  
Zone, Taipei County, Taiwan.



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## VERIFICATION OF COMPLIANCE

**Applicant:** Option NV  
Gaston Geenslaan 14, 3001 Leuven, Belgium

**Product Description:** mIDentity 3G

**Brand Name:** Option

**Model No.:** GI0653

**Model Difference:** N/A

**FCC ID:** NCMOGI0653

**File Number:** EI/2010/90006

**Date of test:** Sep. 15, 2010 ~ Oct. 25, 2010

**Date of EUT Receive:** Sep. 15, 2010

### We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 :2003 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15B, Class B.

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

*Test By:*

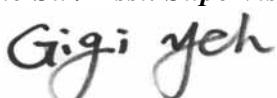


*Date:*

Oct. 29, 2010

*Eric Su / Asst. Supervisor*

*Prepared By:*

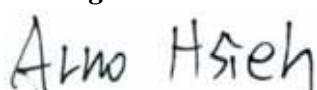


*Date:*

Oct. 29, 2010

*Gigi Yeh/ Clerk*

*Approved By:*



*Date:*

Oct. 29, 2010

*Arno Hsieh / Asst. Supervisor*

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## Version

Version No.	Date	Description
00	Oct. 26, 2010	Initial creation of document
01	Oct. 29, 2010	According to Option comments on Oct. 29, 2010

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## 1. GENERAL INFORMATION

### 1.1. Product Description

General:

Product Name:	mIDentity 3G
Brand Name:	Option
Model Name:	GI0653
Model Difference:	N/A
Power Supply:	5 V from USB port

GSM and WCDMA:

Cellular Phone Standards Frequency Range and Power:	Operating Frequency		Rated Power
	GRPS 850, Class 12	824 MHz– 849MHz	33 dBm
	EDGE 850, Class 12	824.2 MHz– 848.8 MHz	27 dBm
	GRPS 1900, Class 12	1850MHz – 1910MHz	30 dBm
	EDGE 1900, Class 12	1850.2MHz – 1909.8MHz	26 dBm
	WCDMA/HSUPA/HSDPA Band II	1852.4MHz – 1907.6MHz	21 dBm
Hardware Version:	2.0.2.0		
Software Version:	N/A		
IMEI:	004400013070006		

This test report applies for GPRS/EDGE 850/1900, WCDMA/HSDPA/HSUPA band II function.

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## 1.2. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: NCMOGI0653** filing to comply with Part15 Subpart B, class B of the FCC CFR 47 Rules.

## 1.3. Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.4: 2003. Radiated testing was performed at an antenna to EUT distance 3 meters.

## 1.4. Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003. FCC Registration Number are: 990257 and 236194, Canada Registration Number: 4620A-4

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 29, Pau-Tou-Tsuo Valley Chia-Pau Tsuen, Linkou Hsiang, Taipei county, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 &10 meters) and FCC Registration Number: 94644

## 1.5. Special Accessories

Not available for this EUT intended for grant.

## 1.6. Equipment Modifications

Not available for this EUT intended for grant.

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## 2. System Test Configuration

### 2.1. EUT Configuration

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

### 2.2. EUT Exercise

The EUT was operated in the normal continuous transmitting and all function.

### 2.3. Test Procedure

#### 2.3.1 Conducted Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. According to the requirements in Section 7 of ANSI C63.4: 2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode.

#### 2.3.2 Radiated Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna. according to the requirements in Section 8 of ANSI C63.4: 2003.

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## 2.4. Limitation

### (1) Conducted Emission

According to section 15.107(a) Conducted Emission Limits is as following.

Frequency range MHz	Class B Limits dB (uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	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 MHz to 0.50 MHz.

### (2) Radiated Emission

According to section 15.109(a) Radiated Emission Class B Limits is as following:

Frequency (MHz)	Field strength μV/m	Distance (m)	Field strength at 3m dBμV/m
30-88	100	3	40
88-216	150	3	43.5
216-960	200	3	46
Above 960	500	3	54

Standard	Date	Description
EN55022	2006	Limits and methods of measurement of radio interference characteristics of information technology equipment.

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## CISPR 22 Limit:

Frequency range MHz	Limits dBuV/m (10m)	
	Quasi-peak	
30 to 230		30
230 to 1000		37

Remark: 1. Emission level in dBuV/m=20 log (uV/m)  
2. Measurement was performed at an antenna to the closed point of EUT distance of 3 meters.

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## 2.5. Configuration of Tested System

Fig. 2-1 Configuration of Tested System (Radiation)

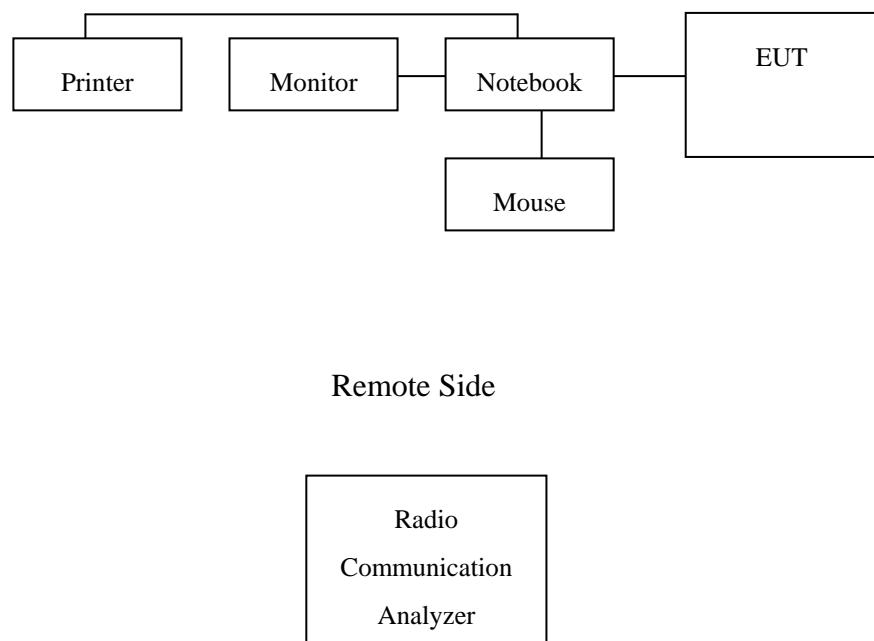


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	Radio Communication Analyzer	R&S	CMU200	102189	N/A	N/A
2.	Notebook	IBM	R61	L3A9050	N/A	Un-shielded
3.	Mouse	HP	MO42KOA	0307012110	Shielded 1.8m	N/A
4.	Monitor	HP	HSTND-2F02	CND7122S7B	Shielded 1.2m	Un-shielded
5.	Printer	HP	DJ3820	CN34L181B1	Shielded 1.6m	Shielded

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### 3. Summary of Test Results

FCC Rules	Description Of Test	Result
§15.107	Conducted Emission Class B	Compliant
§15.109	Radiated Emission Class B	Compliant

### 4. Description of test modes

The EUT was stayed in normal operation mode with all its ancillary functions being operated.(GPRS link with simulator).

Test Mode:

	<b><i>mIdentity 3G</i></b>	Config 1	Config 2
	Applicable standard (FCC )	<b>Part 15B</b>	
	Accessories	UE	UE
		Full function	Data
<b>EN No.</b>	<b>Description</b>		
8.2	radiated emission (30MHz to 1GHz & 1GHz to 6GHz)	Full function	Data link
8.3	conducted emission (DC Power)	N/A	N/A
8.4	conducted emission (AC Power)	Full function	Data link

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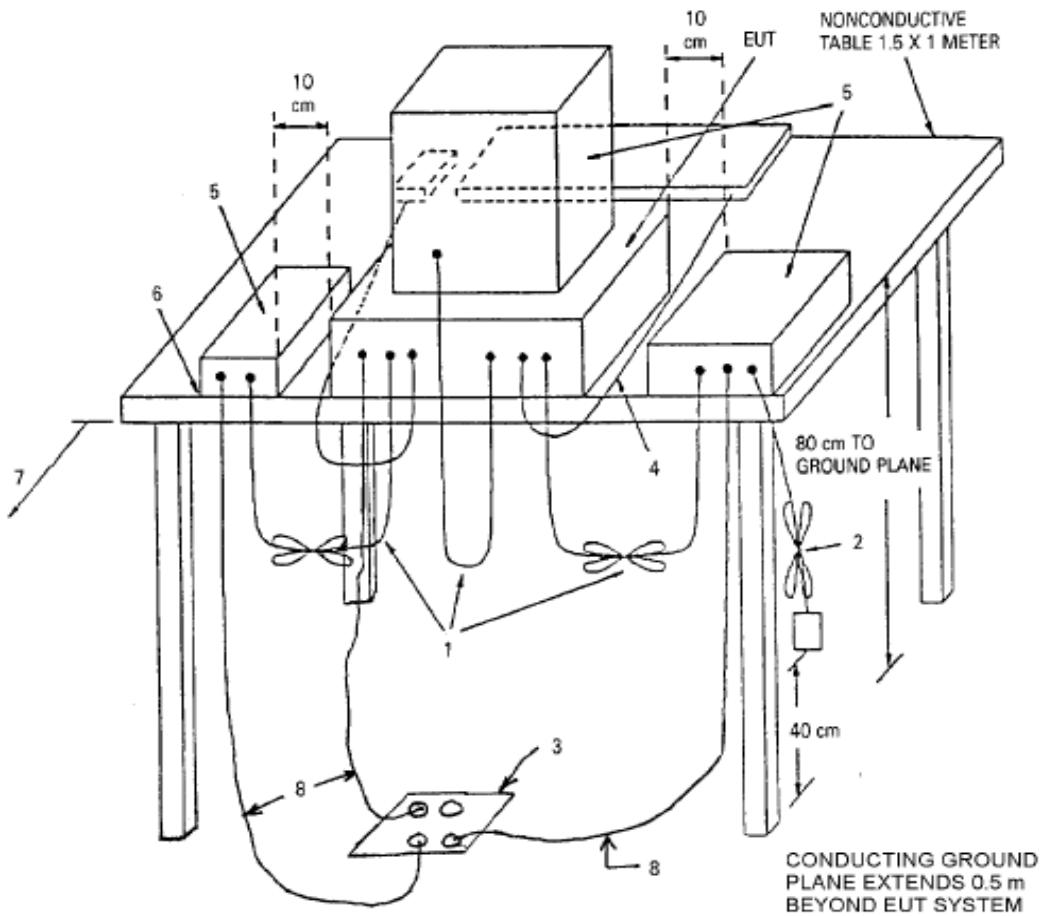
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## 5. Conducted Emissions Test

### 5.1. Measurement Procedure:

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

### 5.2. Test SET-UP (Block Diagram of Configuration)



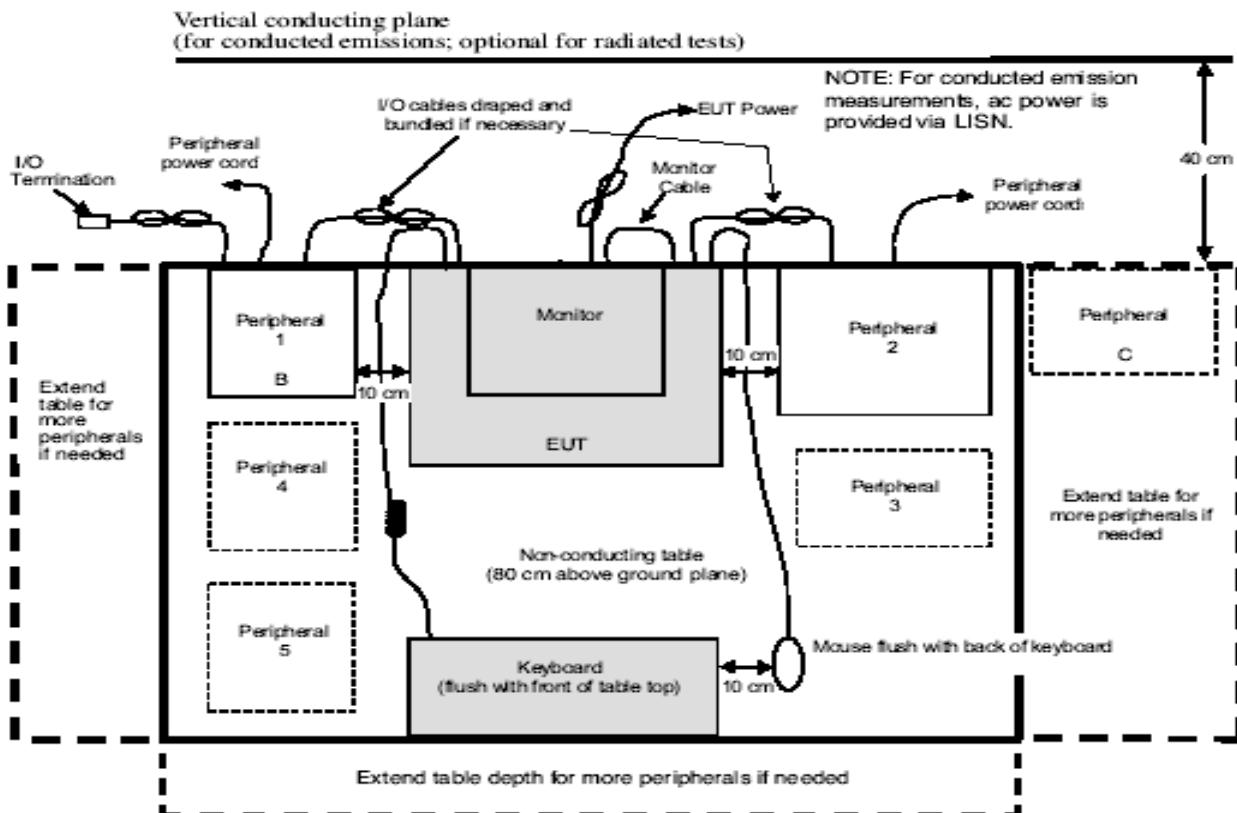
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**LEGEND:**

- 1) Interconnecting cables that hang closer than 40 cm to the groundplane shall be folded back and forth in the center, forming a bundle 30 to 40 cm long (see 6.1.4 and 11.2.4).
- 2) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated if required using the correct terminating impedance. The total length shall not exceed 1 m (see 6.1.4).
- 3) If LISNs are kept in the test setup for radiated emissions, it is preferred that they be installed under the groundplane with the receptacle flush with the groundplane (see 6.1.4).
- 4) Cables of hand-operated devices, such as keyboards, mice, etc., shall be placed as for normal use (see 6.2.1.3 and 11.2.4).
- 5) Non-EUT components of EUT system being tested (see also Figure 13).
- 6) Rear of EUT, including peripherals, shall all be aligned and flush with rear of tabletop (see 6.2.1.1 and 6.2.1.2).
- 7) No vertical conducting plane used (see 5.2.2).

**Figure 11a—Test arrangement for radiated emissions tabletop equipment**



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### 5.3. Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCS30	828985/004	09/15/2010	09/14/2011
LISN	Rolf-Heine	NNB-2/16Z	99012	02/02/2010	02/01/2011
LISN	FCC	FCC-LISN-50/250-25-2-01	04034	02/02/2010	02/01/2011
Coaxial Cables	N/A	WK CE Cable	N/A	11/28/2009	11/27/2010

### 5.4. Measurement Result:

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

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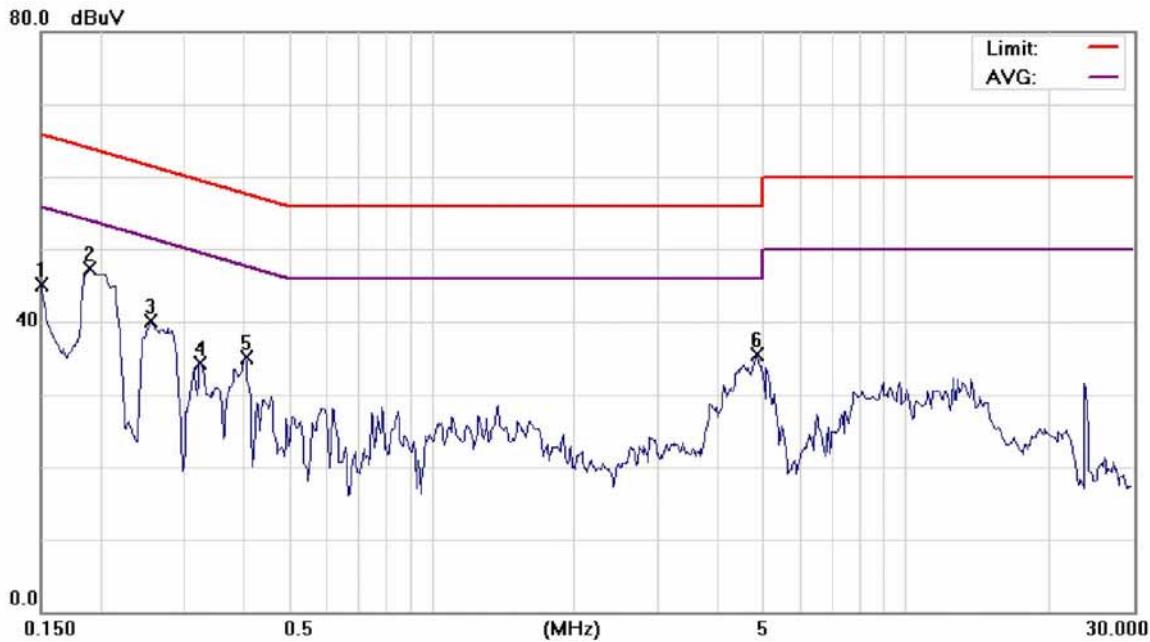
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## AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 1	Test Date:	Oct. 21, 2010
		Test By:	Eric

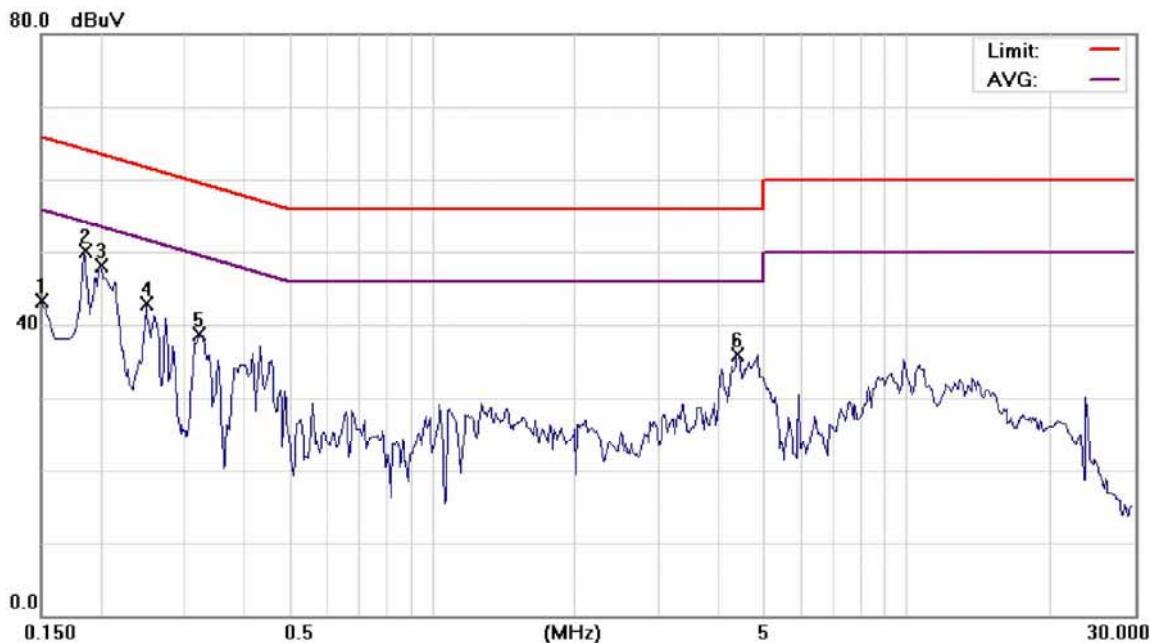


Site: SGS CONDUCTED #1	Phase: <b>L1</b>	Temperature: 23 °C
Limit: FCC Class B Conduction	Power: AC 120V/60Hz	Humidity: 56 %
EUT: mIDentity 3G	Distance:	Air Pressure: hpa
M/N: GI0653		
Note: Full function		

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
							dB	Detector	Comment
1		0.1500	45.01	0.14	45.15	66.00	-20.85	peak	
2 *		0.1900	47.13	0.12	47.25	64.04	-16.79	peak	
3		0.2550	39.99	0.12	40.11	61.59	-21.48	peak	
4		0.3250	34.20	0.12	34.32	59.58	-25.26	peak	
5		0.4050	35.03	0.12	35.15	57.75	-22.60	peak	
6		4.8600	35.34	0.22	35.56	56.00	-20.44	peak	

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Site SGS CONDUCTED #1      Phase: **N**      Temperature: 23 °C  
 Limit: FCC Class B Conduction      Power: AC 120V/60Hz      Humidity: 56 %  
 EUT: mIDentity 3G      Distance:      Air Pressure: hpa  
 M/N: GI0653  
 Note: Full function

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over	
							Detector	Comment
1		0.1500	43.20	0.15	43.35	66.00	-22.65	peak
2 *		0.1850	49.90	0.13	50.03	64.26	-14.23	peak
3		0.2000	48.05	0.13	48.18	63.61	-15.43	peak
4		0.2500	42.87	0.13	43.00	61.76	-18.76	peak
5		0.3217	38.51	0.12	38.63	59.66	-21.03	peak
6		4.4071	35.70	0.21	35.91	56.00	-20.09	peak

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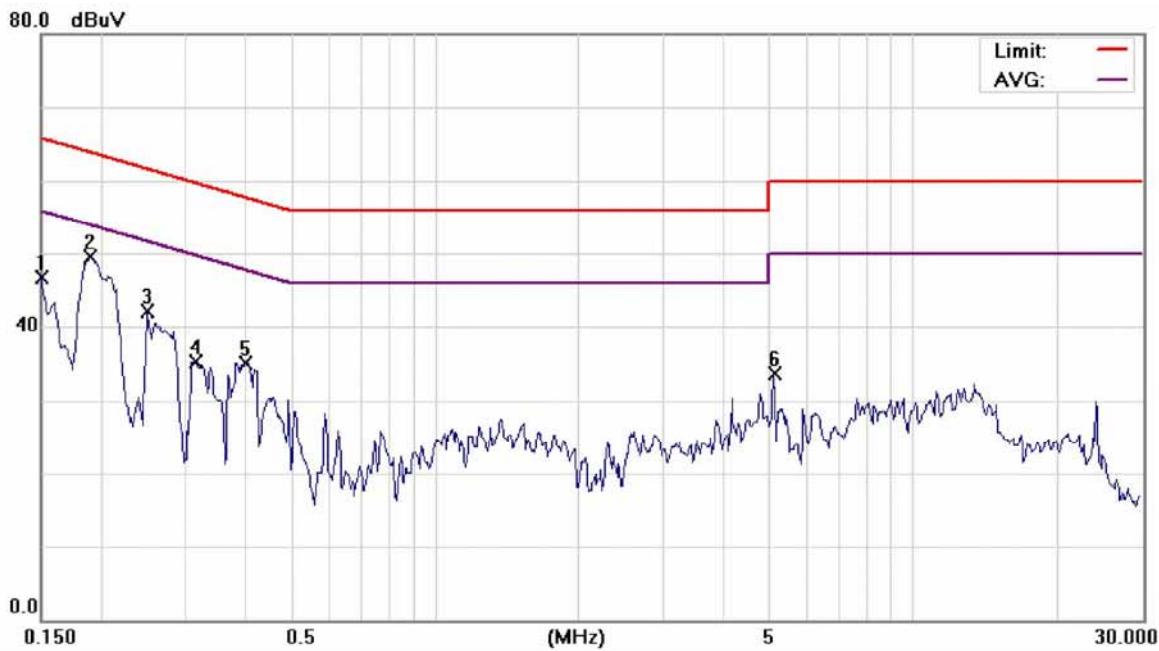
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## AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 2	Test Date:	Oct. 21, 2010
		Test By:	Eric

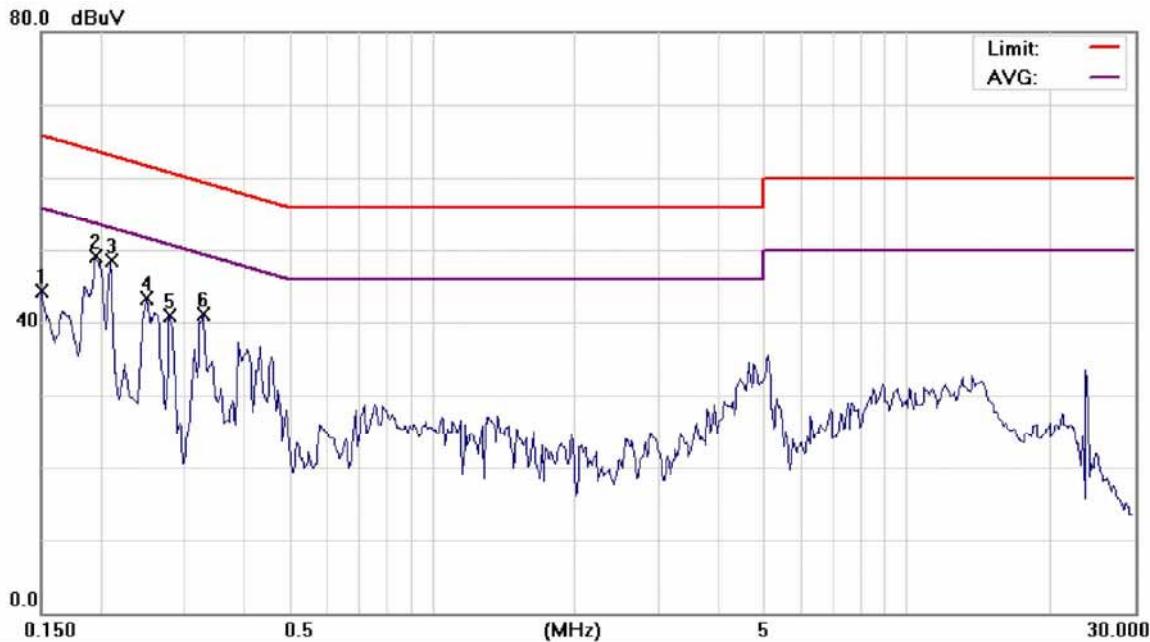


Site SGS CONDUCTED #1	Phase: <b>L1</b>	Temperature: 23 °C
Limit: FCC Class B Conduction	Power: AC 120V/60Hz	Humidity: 56 %
EUT: mIDentity 3G	Distance:	Air Pressure: hpa
M/N: GI0653		
Note: Data link		

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
							dB	Detector	Comment
1		0.1500	46.51	0.14	46.65	66.00	-19.35	peak	
2 *		0.1900	49.37	0.12	49.49	64.04	-14.55	peak	
3		0.2500	42.07	0.12	42.19	61.76	-19.57	peak	
4		0.3150	35.23	0.12	35.35	59.84	-24.49	peak	
5		0.4019	35.07	0.12	35.19	57.81	-22.62	peak	
6		5.1200	33.38	0.23	33.61	60.00	-26.39	peak	

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Site SGS CONDUCTED #1

Phase: **N**

Temperature: 23 °C

Limit: FCC Class B Conduction

Power: AC 120V/60Hz

Humidity: 56 %

EUT: mIDentity 3G

Distance:

Air Pressure: hpa

M/N: GI0653

Note: Data link

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over	
							Detector	Comment
1		0.1500	44.24	0.15	44.39	66.00	-21.61	peak
2		0.1950	48.89	0.13	49.02	63.82	-14.80	peak
3 *		0.2100	48.29	0.13	48.42	63.21	-14.79	peak
4		0.2500	43.17	0.13	43.30	61.76	-18.46	peak
5		0.2800	40.83	0.12	40.95	60.82	-19.87	peak
6		0.3300	40.93	0.12	41.05	59.45	-18.40	peak

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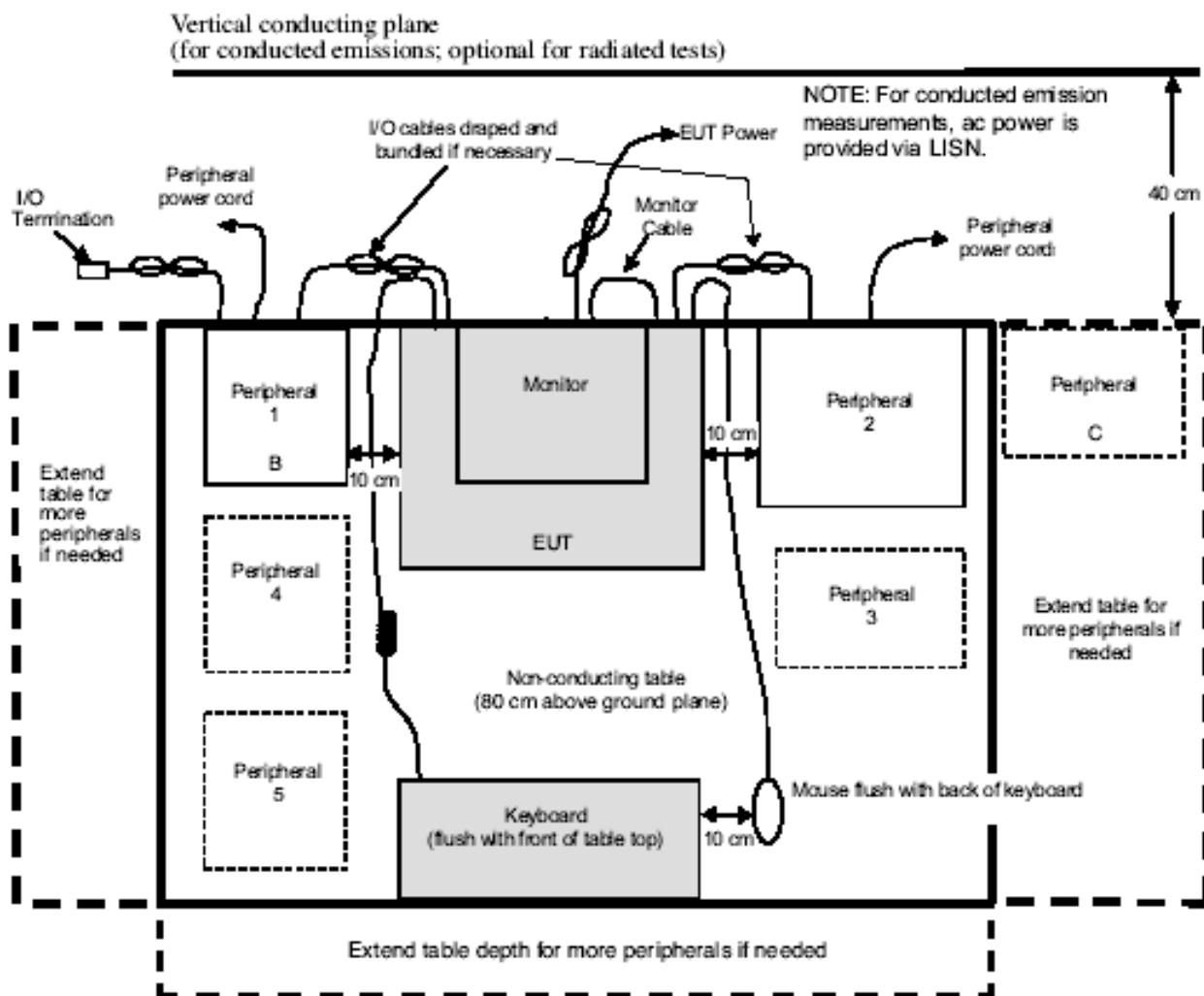
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## 6. Radiated Emission Test

## 6.1. Measurement Procedure

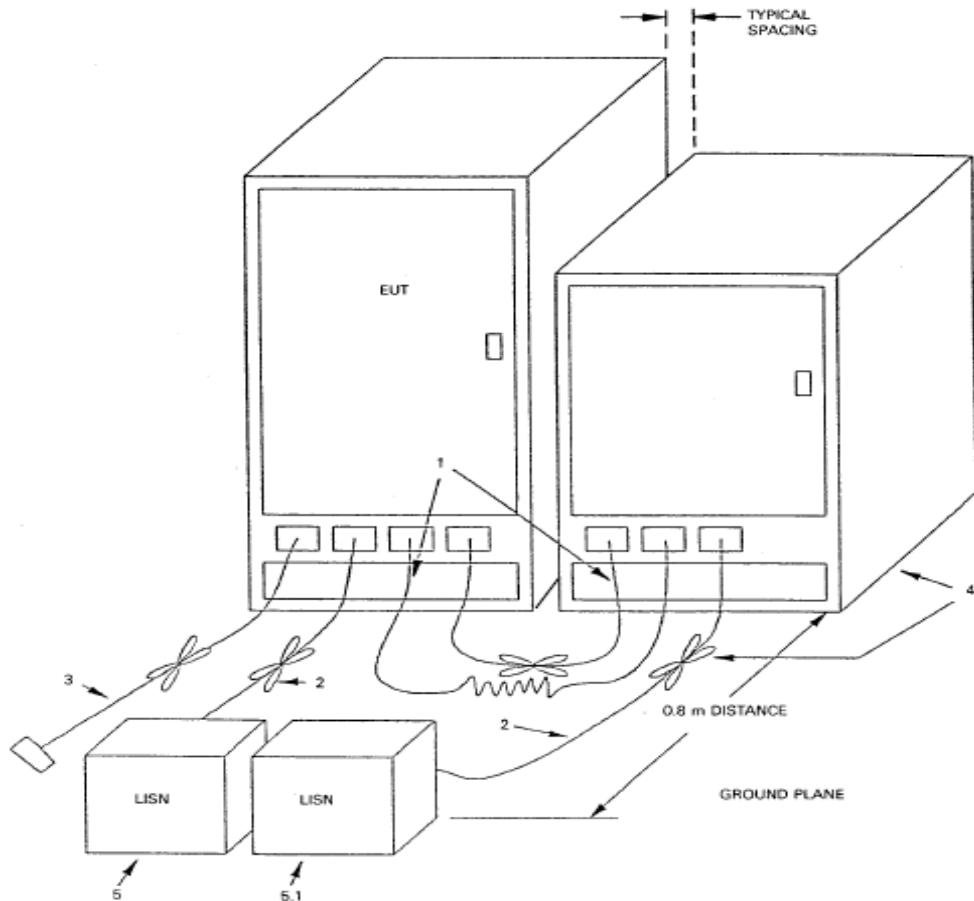
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.

## 6.2. Test SET-UP (Block Diagram of Configuration)



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## LEGEND:

- 1) Excess I/O cables shall be bundled in the center. If bundling is not possible, the cables shall be arranged in serpentine fashion. Bundling shall not exceed 40 cm in length (see 6.1.4 and 11.2.4).
- 2) Excess power cords shall be bundled in the center or shortened to appropriate length (see 7.2.1).
- 3) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. If bundling is not possible, the cable shall be arranged in serpentine fashion (see 6.1.4).
- 4) EUT and all cables shall be insulated, if required, from the groundplane by up to 12 mm of insulating material (see 6.1.4 and 6.2.2).
- 5) EUT connected to one LISN. LISN can be placed on top of, or immediately beneath, the groundplane. 5.1) All other equipment powered from a second LISN or additional LISN(s) (see 5.2.3 and 7.2.1). 5.2) Multiple outlet strip can be used for multiple power cords of non-EUT equipment.

**Figure 10b—Test arrangement for conducted emissions floor-standing equipment**

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### 6.3. Measurement Equipment Used:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	02/12/2010	02/11/2011
Bilog Antenna	SCHWAZBECK	VULB9160	3136	11/19/2009	11/18/2010
Horn antenna	SCHWAZBECK	BBHA 9120D	309/320	03/09/2009	03/08/2011
Pre-Amplifier	Agilent	8447D	1937A02834	11/28/2009	11/28/2010
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2010	01/04/2011
Radio Communication Analyzer	R & S	CMU200	111787	10/31/2008	10/30/2010
DC Block	Agilent	BLK-18	155452	07/05/2010	07/04/2011
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	01/05/2010	01/04/2011
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2010	01/04/2011
3m Site	SGS	966 chamber	N/A	11/08/2009	11/09/2010

### 6.4. Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

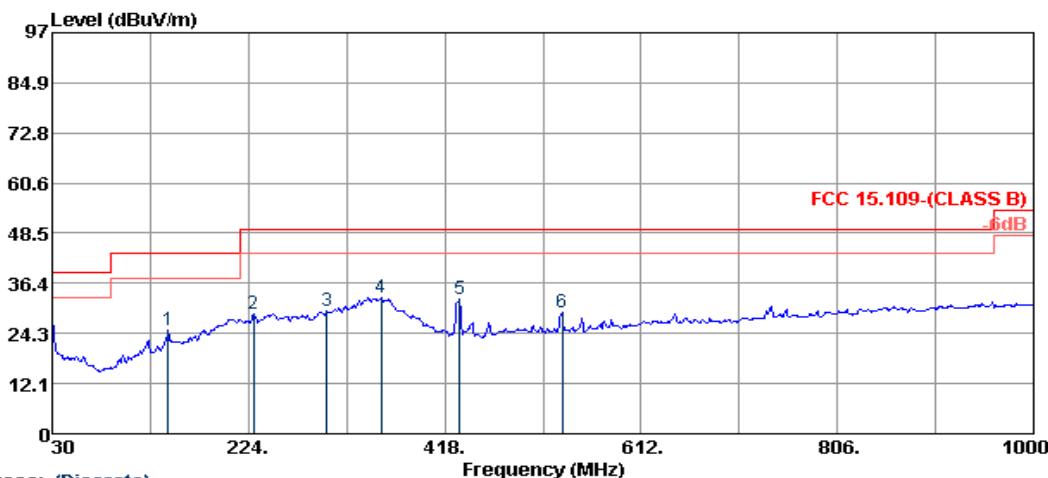
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## 6.5. Measurement Result:

Test Mode: Config 1  
Detector Function: QP  
Frequency Range: 30MHz-1000MHz

Test Date : Oct. 22, 2010  
Test By: Eric  
Pol: Vertical



Trace: (Discrete)  
Site : RF site 3  
Condition : FCC 15.109-(CLASS B) 3m VULB9168(20M~2G)-966 VERTICAL  
Project No. : EI-2010-90006  
Applicant : Option NV  
EUT Description: mIDentity 3G  
EUT Model : GI0653  
Test Mode : Full function  
Temp./Humid. : 24/61  
Operator : Eric

	Freq	Read Level	Cable Loss	Factor	Level	Limit Line	Over Line	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dBuV/m	dB	
1	144.46	37.67	0.95	-12.66	25.01	43.52	-18.51	QP	
2	228.85	43.43	1.23	-14.56	28.87	46.02	-17.15	QP	
3	301.60	42.11	1.48	-12.41	29.70	46.02	-16.32	QP	
4 p	354.95	44.36	1.64	-11.50	32.86	46.02	-18.16	QP	
5	432.55	42.71	1.82	-10.21	32.50	46.02	-18.52	QP	
6	534.40	37.70	2.03	-8.44	29.26	46.02	-16.76	QP	

### Remark :

- (1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

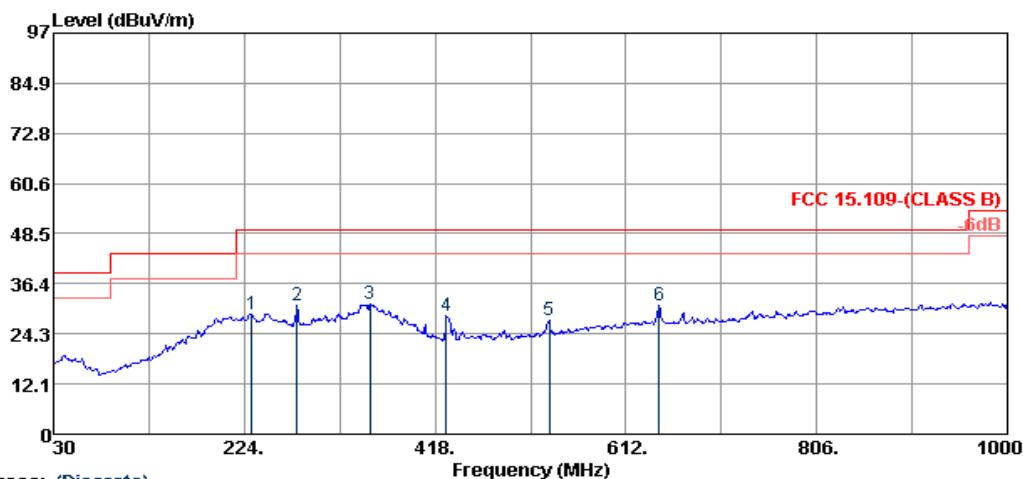
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**Measurement Result:**

Test Mode: Config 1  
Detector Function: QP  
Frequency Range: 30MHz-1000MHz

Test Date : Oct. 22, 2010  
Test By: Eric  
Pol.: Horizontal



Trace: (Discrete)  
Site : RF site 3  
Condition : FCC 15.109-(CLASS B) 3m VULB9168(20M~2G)-966 HORIZONTAL  
Project No. : EI-2010-90006  
Applicant : Option NV  
EUT Description: mIDentity 3G  
EUT Model : GI0653  
Test Mode : Full function  
Temp./Humid. : 24/61  
Operator : Eric

	Read Freq	Cable Level	Loss Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	231.76	43.33	1.23	-14.38	28.95	46.02	-17.07 QP
2	277.35	44.18	1.43	-13.01	31.17	46.02	-14.85 QP
3 p	352.04	42.88	1.64	-11.52	31.36	46.02	-14.66 QP
4	429.64	38.85	1.82	-10.25	28.60	46.02	-17.42 QP
5	534.40	36.14	2.03	-8.44	27.70	46.02	-18.32 QP
6	645.95	37.26	2.25	-6.08	31.18	46.02	-14.84 QP

**Remark :**

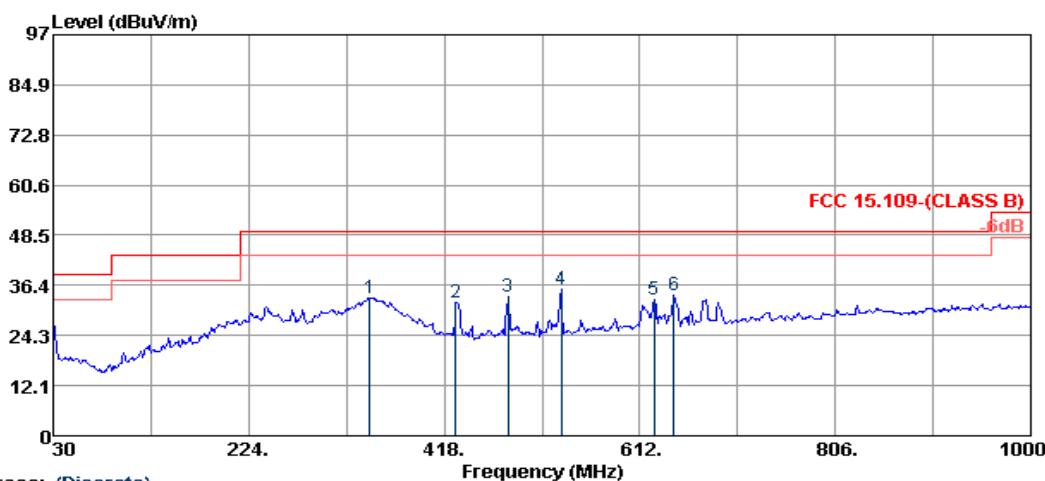
- (1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

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Test Mode: Config 2  
Detector Function: QP  
Frequency Range: 30MHz-1000MHz

Test Date : Oct. 22, 2010  
Test By: Eric  
Pol.: Vertical



Trace: (Discrete)  
Site : RF site 3  
Condition : FCC 15.109-(CLASS B) 3m VULB9168(20M~2G)-986 VERTICAL  
Project No. : EI-2010-90006  
Applicant : Option NV  
EUT Description: mIDentity 3G  
EUT Model : GI0653  
Test Mode : Data link  
Temp./Humid. : 24/61  
Operator : Eric

	Read Freq MHz	Level dBuV	Cable Loss dB	Factor dB/m	Level dBuV/m	Limit Line dBuV/m	Over Line dB	Over Limit dB	Remark
	MHz	dBuV		dB/m	dBuV/m	dBuV/m			
1	344.28	44.77	1.64	-11.60	33.17	46.02	-12.85	QP	
2	429.64	42.33	1.82	-10.25	32.08	46.02	-13.94	QP	
3	481.05	42.91	1.93	-9.40	33.51	46.02	-12.51	QP	
4 p	534.40	43.87	2.03	-8.44	35.43	46.02	-10.59	QP	
5	626.55	39.49	2.18	-6.47	33.02	46.02	-13.00	QP	
6	645.95	40.05	2.25	-6.08	33.97	46.02	-12.05	QP	

#### Remark :

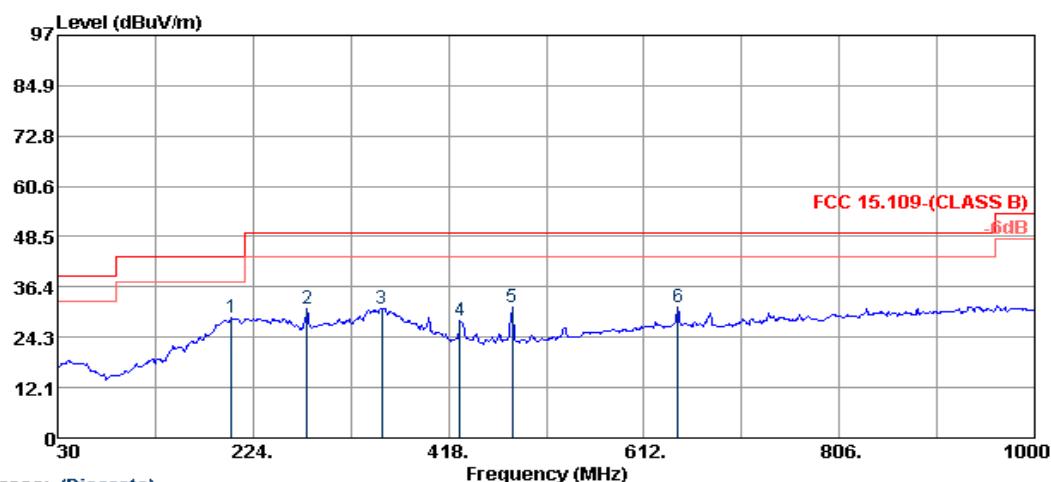
- (1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

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Test Mode: Config 2  
Detector Function: QP  
Frequency Range: 30MHz-1000MHz

Test Date : Oct. 22, 2010  
Test By: Eric  
Pol.: Horizontal



Trace: (Discrete)  
Site : RF site 3  
Condition : FCC 15.109-(CLASS B) 3m VULB9168(20M~2G)-986 HORIZONTAL  
Project No. : EI-2010-90006  
Applicant : Option NV  
EUT Description: mIDentity 3G  
EUT Model : GI0653  
Test Mode : Data link  
Temp./Humid. : 24/61  
Operator : Eric

	Freq	Read Level	Cable Loss	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	202.66	44.81	1.17	-15.94	28.87	43.52	-14.65	QP
2	277.35	44.08	1.43	-13.01	31.07	46.02	-14.95	QP
3	352.04	42.82	1.64	-11.52	31.30	46.02	-14.72	QP
4	429.64	38.53	1.82	-10.25	28.28	46.02	-17.74	QP
5	481.05	40.73	1.93	-9.40	31.33	46.02	-14.69	QP
6 p	645.95	37.61	2.25	-6.08	31.53	46.02	-14.49	QP

Remark :

- (1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

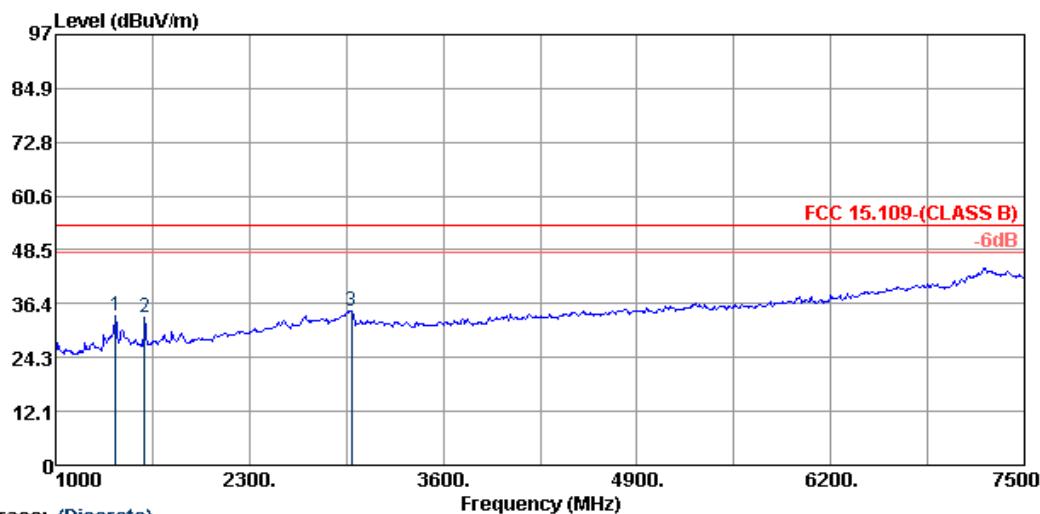
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### Measurement Result Above 1GHz :

Test Mode : Config 1  
Detector Function: Peak  
Frequency Range: Over 1 – 7.5GHz

Test Date : Oct. 22, 2010  
Test By: Eric  
Pol. Vertical



Trace: (Discrete)  
Site : RF site 3  
Condition : FCC 15.109-(CLASS B) 3m BBHA8120D VERTICAL  
Project No. : EI-2010-90006  
Applicant : Option NV  
EUT Description: mlDentity 3G  
EUT Model : GI0653  
Test Mode : Full function  
Temp./Humid. : 24/61  
Operator : Eric

	Read Freq	Level dBuV	Cable Loss dB	Factor dB/m	Level dBuV/m	Limit Line dBuV/m	Over Line dB	Over Limit dB	Remark
	MHz								
1	1403.00	8.77	0.00	24.79	33.56	54.00	-20.44	Peak	
2	1598.00	8.14	0.00	25.10	33.24	54.00	-20.76	Peak	
3 p	2982.50	6.54	0.00	28.22	34.76	54.00	-19.24	Peak	

### Remark :

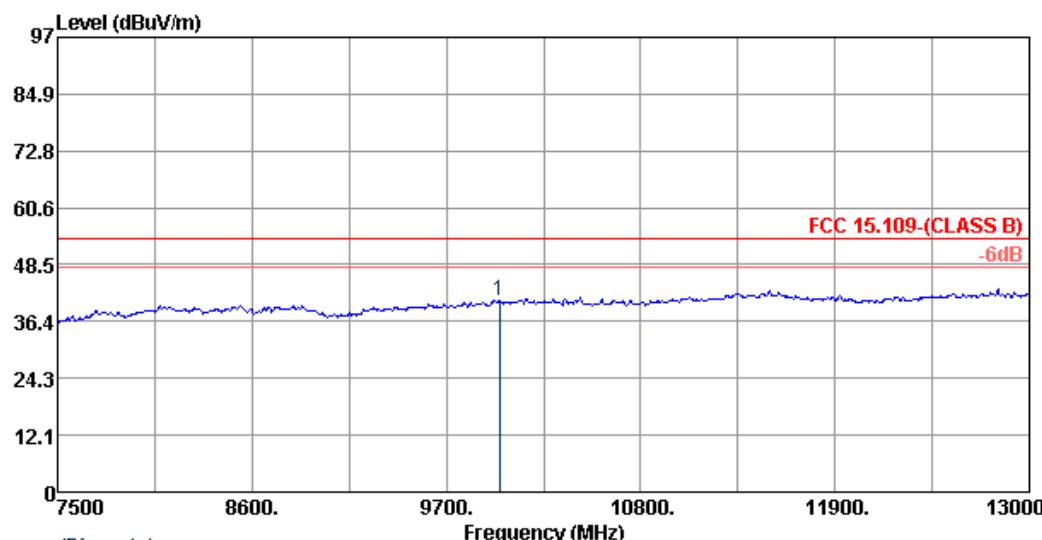
- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

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Test Mode : Config 1  
Detector Function: Peak  
Frequency Range: Over 7.5 – 13GHz

Test Date : Oct. 22, 2010  
Test By: Eric  
Pol. Vertical



Trace: (Discrete)  
Site : RF site 3  
Condition : FCC 15.109-(CLASS B) 3m BBHA9120D VERTICAL  
Project No. : EI-2010-90006  
Applicant : Option NV  
EUT Description: mIDentity 3G  
EUT Model : GI0653  
Test Mode : Full function  
Temp./Humid. : 24/61  
Operator : Eric

Freq	Read Level	Cable Loss	Factor	Level	Limit Line	Over Line	Remark
MHz	dBuV	dB		dB/m	dBuV/m	dBuV/m	dB
1 p 10002.50	2.66	0.00	38.16	40.82	54.00	-13.18	Peak

#### Remark :

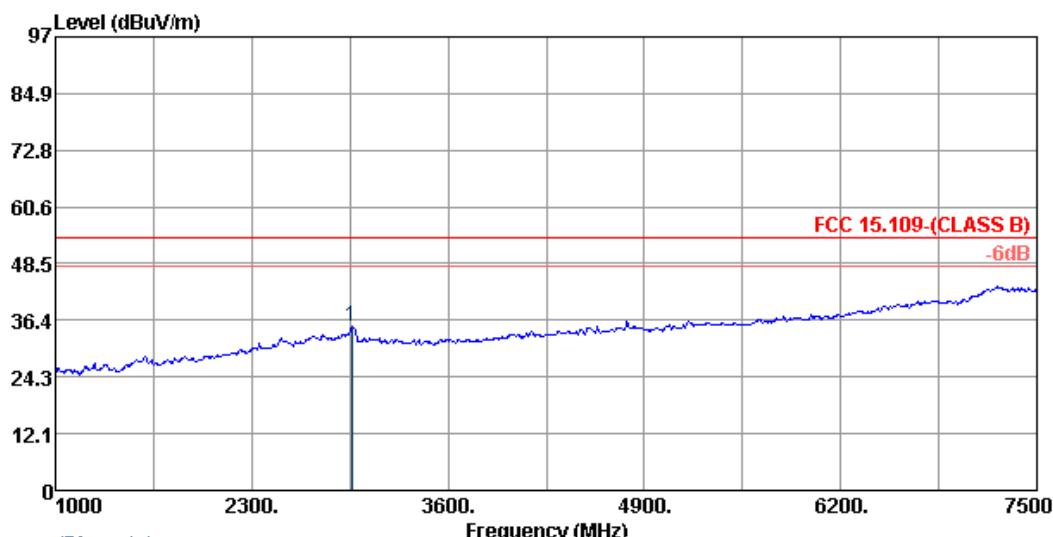
- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

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Test Mode : Config 1  
 Detector Function: Peak  
 Frequency Range: 1 – 7.5GHz

Test Date : Oct. 22, 2010  
 Test By: Eric  
 Pol. Horizontal



Trace: (Discrete)  
 Site : RF site 3  
 Condition : FCC 15.109-(CLASS B) 3m BBHA9120D HORIZONTAL  
 Project No. : EI-2010-90006  
 Applicant : Option NV  
 EUT Description: mIDentity 3G  
 EUT Model : GI0653  
 Test Mode : Full function  
 Temp./Humid. : 24/61  
 Operator : Eric

Read	Cable	Limit	Over				
Freq	Level	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB		dB/m	dBuV/m	dBuV/m	dB
1 p	2963.00	6.84	0.00	28.17	35.01	54.00	-18.99 Peak

#### Remark :

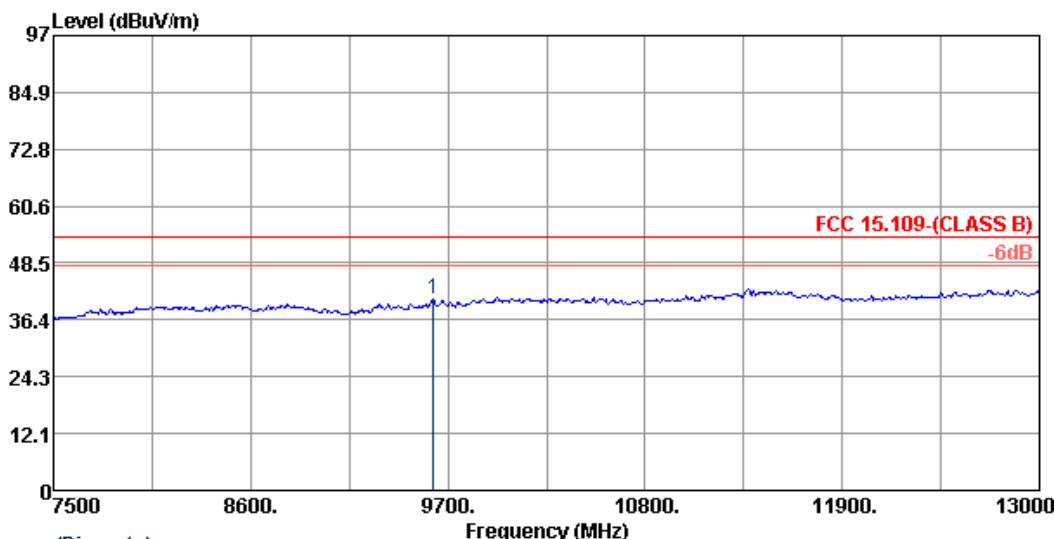
- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

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Test Mode : Config 1  
 Detector Function: Peak  
 Frequency Range: 7.5 - 13GHz

Test Date : Oct. 22, 2010  
 Test By: Eric  
 Pol. Horizontal



Trace: (Discrete)  
 Site : RF site 3  
 Condition : FCC 15.109-(CLASS B) 3m BBHA9120D HORIZONTAL  
 Project No. : EI-2010-90006  
 Applicant : Option NV  
 EUT Description: mlDentity 3G  
 EUT Model : GI0653  
 Test Mode : Full function  
 Temp./Humid. : 24/61  
 Operator : Eric

Read	Cable	Limit	Over				
Freq	Level	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1 p	9617.50	3.03	0.00	37.98	40.96	54.00	-13.04 Peak

#### Remark :

- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

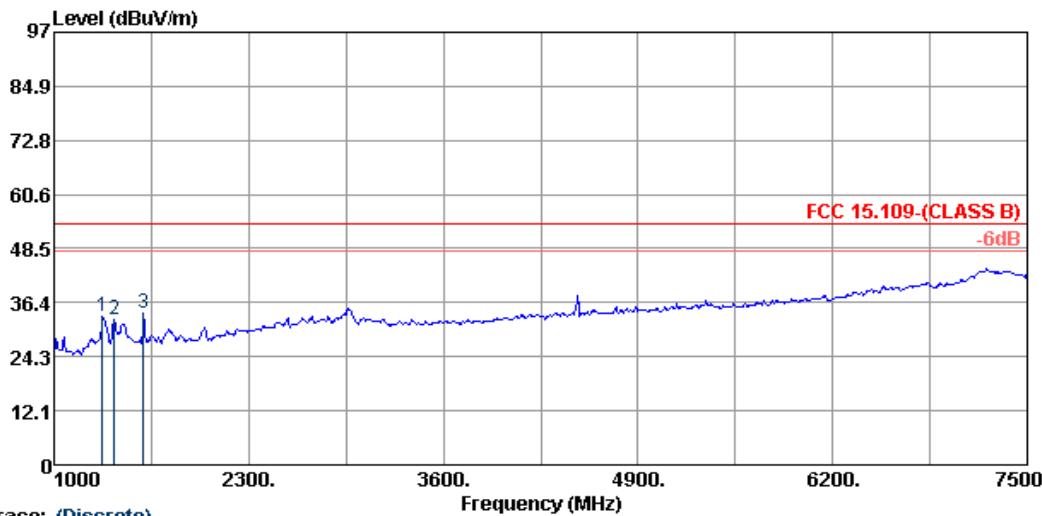
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### Measurement Result Above 1GHz :

Test Mode : Config 2  
Detector Function: Peak  
Frequency Range: 1 – 7..5GHz

Test Date : Oct. 22, 2010  
Test By: Eric  
Pol. Vertical



Trace: (Discrete)  
Site : RF site 3  
Condition : FCC 15.109-(CLASS B) 3m BBHA9120D VERTICAL  
Project No. : EI-2010-90006  
Applicant : Option NV  
EUT Description: mlDentity 3G  
EUT Model : GI0653  
Test Mode : Data link  
Temp./Humid. : 24/61  
Operator : Eric

	Read Freq	Cable Level	Line Loss	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB		dB/m	dBuV/m	dBuV/m	
1	1325.00	38.06	3.43	-4.80	33.26	54.00	-20.74	Peak
2	1403.00	37.72	3.52	-5.02	32.70	54.00	-21.30	Peak
3 p	1598.00	37.94	3.75	-4.11	38.83	54.00	-20.17	Peak

### Remark :

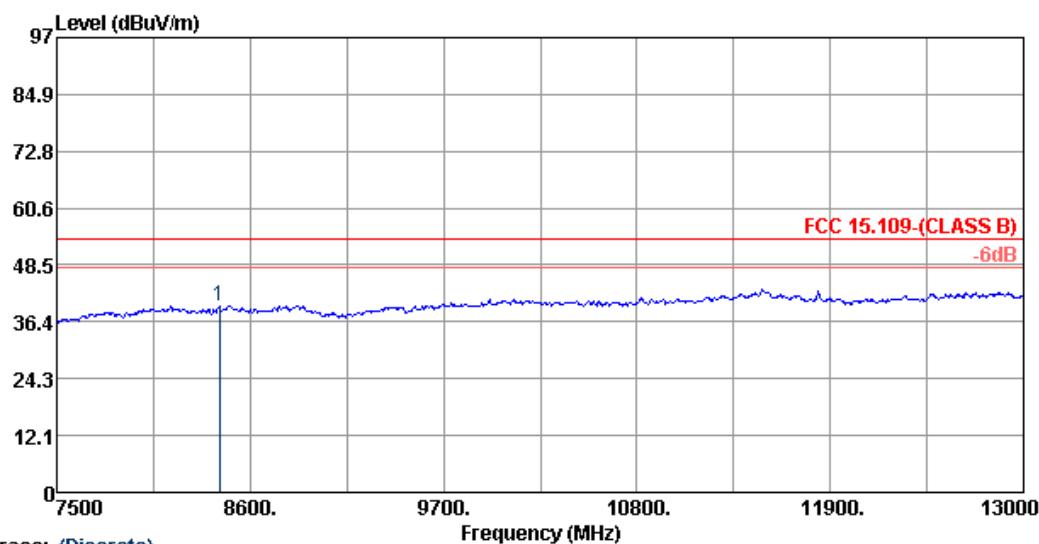
- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

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Test Mode : Config 2  
 Detector Function: Peak  
 Frequency Range: 7..5 – 13GHz

Test Date : Oct. 22, 2010  
 Test By: Eric  
 Pol. Vertical



Trace: (Discrete)  
 Site : RF site 3  
 Condition : FCC 15.109-(CLASS B) 3m BBHA9120D VERTICAL

Project No. : EI-2010-90006

Applicant : Option NV

EUT Description: mlDentity 3G

EUT Model : GI0653

Test Mode : Data link

Temp./Humid. : 24/61

Operator : Eric

Freq	Read Level	Cable Loss	Factor	Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB		dBuV/m	dBuV/m	dBuV/m	dB
1 p	8424.00	2.78	0.00	37.15	39.88	54.00	-14.12 Peak

#### Remark :

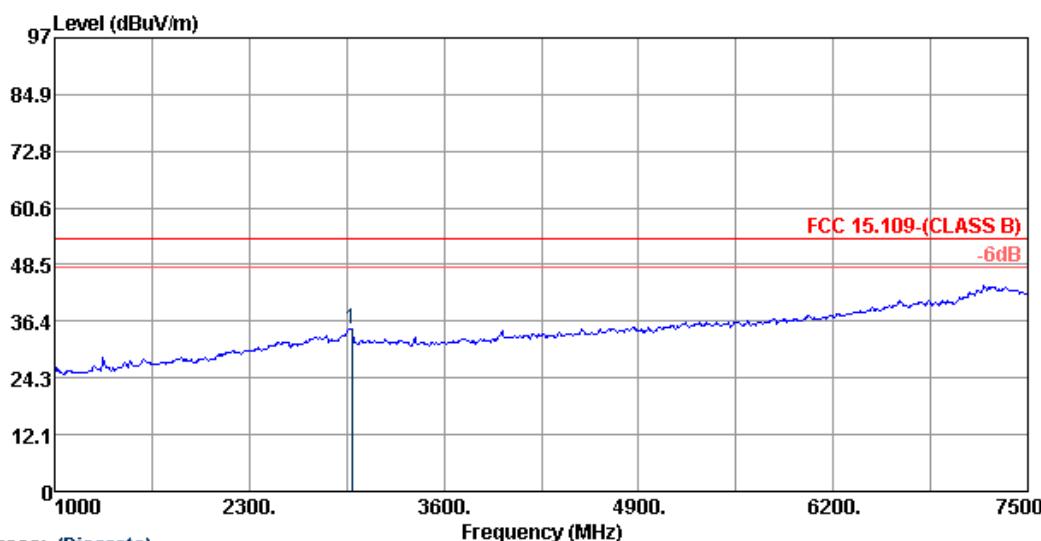
- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

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Test Mode : Config 2  
Detector Function: Peak  
Frequency Range: 1 – 7.5GHz

Test Date : Oct. 22, 2010  
Test By: Eric  
Pol. Horizontal



Trace: (Discrete)  
Site : RF site 3  
Condition : FCC 15.109-(CLASS B) 3m BBHA9120D HORIZONTAL

Project No. : EI-2010-90006

Applicant : Option NV

EUT Description: mlDentity 3G

EUT Model : GI0653

Test Mode : Data link

Temp./Humid. : 24/61

Operator : Eric

Freq	Read Level	Cable Loss	Factor	Level	Limit Line	Over Line	Remark
MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1 p	2982.50	33.98	5.38	0.78	34.76	54.00	-19.24 Peak

#### Remark :

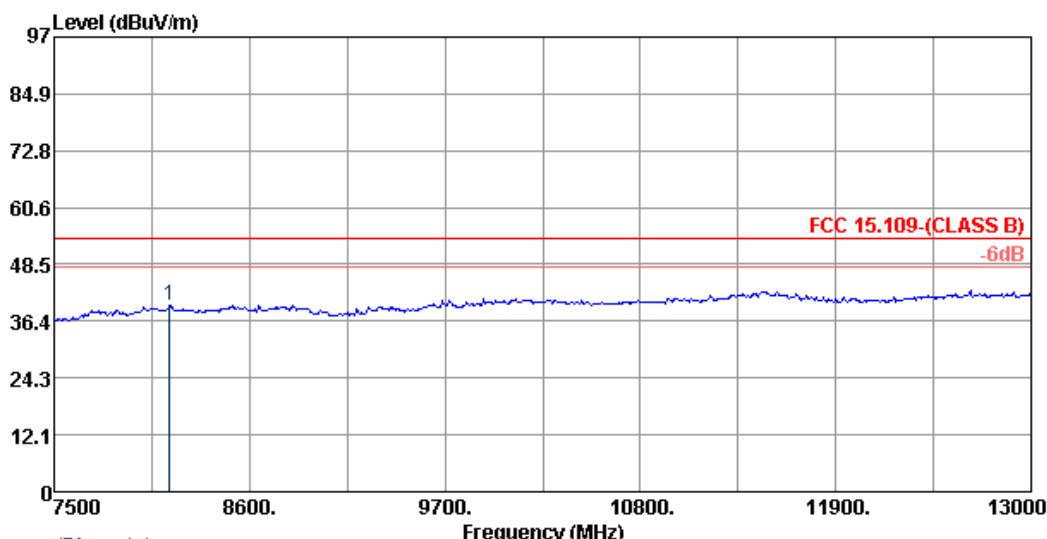
- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

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Test Mode : Config 2  
Detector Function: Peak  
Frequency Range: 7.5 – 13GHz

Test Date : Oct. 22, 2010  
Test By: Eric  
Pol. Horizontal



Trace: (Discrete)  
Site : RF site 3  
Condition : FCC 15.109-(CLASS B) 3m BBHA9120D HORIZONTAL

Project No. : EI-2010-90006

Applicant : Option NV

EUT Description: mlIdentity 3G

EUT Model : GI0653

Test Mode : Data link

Temp./Humid. : 24/61

Operator : Eric

Freq	Read Level	Cable Loss	Factor	Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB		dBuV/m	dBuV/m	dB	
1 p 8149.00	2.70	0.00	37.07	39.77	54.00	-14.23	Peak

#### Remark :

- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

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