

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Brand Name: Motorola

Model Name: MB865

Model Different: N/A

FCC ID: IHDT56MV1

Report No.: EI/2011/50011

Issue Date: Jun. 27, 2011

FCC Rule Part: Part 15 B, Class B

Filing Type: Certification

Prepared for: Motorola Mobility, Inc.
600 North U.S. Highway 45, Libertyville, IL
60048-5343

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: Motorola Mobility, Inc.
600 N. U.S. Highway 45 Libertyville, IL 60048-5343

Brand Name: Motorola

Model No.: MB865

Model Difference: N/A

FCC ID: IHDT56MV1

Model Name: N/A

File Number: EI/2011/50011

Date of test: May. 31, 2011 ~ Jun. 13, 2011

Date of EUT Receive: May. 31, 2011

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:

Nick Lin

Date:

Jun. 27, 2011

Nick Lin / Engineer

Prepared By:

Tiffany Kao

Date:

Jun. 27, 2011

Tiffany Kao / Clerk

Approved By:

Jim Chang

Date:

Jun. 27, 2011

Jim Chang / Supervisor

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Version

Version No.	Date	Description
00	Jun. 27, 2011	Initial creation of document

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1. GENERAL INFORMATION

General:

Brand Name	Motorola	
Model Name	MB865	
Model Difference	N/A	
Data Cable (USB)	Model No.: SKN6378A, Supplier: Motorola	
SHF (Simple Hands-Free)	Model No.: SJYN0234B, Supplier: Motorola	
Power Supply	3.8 Vdc re-chargeable battery or 5Vdc by AC/DC power adapter	
	Battery:	Model No.: SNN5892A, Supplier: Motorola
	Adapter:	Model:FMP5202C, Supplier: Motorola
Processor Speed	1.0 GHz	
Xtal	26MHz, 32.768KHz	
TCXO	26MHz	
Memory Size	1GB LPDDR2 SDRAM, 8GB eMMC.	
Video Resolution	1080p Full HD	
Video Clock	Max 148.5 MHz @ 1080p	
Refresh rate	60Hz	

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GSM and WCDMA:

Cellular Phone Standards Frequency Range and Power:	Operating Frequency		Rated Power
	GSM / GPRS 850, Class 12	824 MHz– 849MHz	33 dBm
	EDGE 850, Class 12	824 MHz– 849MHz	27 dBm
	GSM / GPRS 1900, Class 12	1850MHz – 1910MHz	30 dBm
	EDGE 1900, Class 12	1850MHz – 1910MHz	26 dBm
	WCDMA/HSUPA/HSDPA Band II	1852.4MHz – 1907.6MHz	24 dBm
	WCDMA/HSUPA/HSDPA Band V	826.4MHz – 846.6 MHz	24 dBm
Hardware Version:	P3		
Software Version:	Edison-eng 2.3.3.5.5.1_79eng		
Type of Emission	GPRS 850: 245KGXW, GPRS 1900 :248KGXW EDGE 850: 245KG7W, EDGE 1900:252KG7W WCDMA Band II: 4M18F9W,HSUPA Band II: 4M17F9W WCDMA Band V: 4M17F9W,HSUPA Band V: 4M16F9W		
IMEI:	3563780400400081		

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WLAN:

Wi-Fi	Frequency Range	Channels	Rated Power	Modulation Technology	Type of Emission
11b/g	2412-2462	11	b : 18.74dBm g : 18.88dBm	DSSS, OFDM	b : 13M9G1D g : 16M4G1D
11n	HT20 2412-2462	11	n : 18.80dBm	OFDM	n : 17M6G1D
Antenna Designation:			ILA Antenna, 0dBi.		
Modulation type:			CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM		
Transition Rate:			802.11 b: 1/2/5.5/11 Mbps; 802.11 g: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 72.2Mbps		

Bluetooth:

Bluetooth Version:	V2.1 + EDR (GFSK + $\pi/4$ DQPSK + 8DPSK)
Channel number:	79 channels
Modulation type:	Frequency Hopping Spread Spectrum
Transmit Power:	11.73dBm
Frequency Range:	2.402GHz – 2.480GHz
Dwell Time:	$\leq 0.4s$
Operating Mode:	Point-to-Point
Antenna Designation:	ILA Antenna, 0dBi.

FM Receiver:

Operating Frequency	87.5-108MHz
Modulation Technique	Frequency Modulation
Operating Mode	Point-to-Point

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1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: IHDT56MV1** 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.

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 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 Class B 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 $\mu\text{V/m}$	Distance (m)	Field strength at 3m $\text{dB}\mu\text{V/m}$
30-88	100	3	40
88-216	150	3	43.5
216-960	200	3	46
Above 960	500	3	54

Remark: 1. Emission level in $\text{dB}\mu\text{V/m} = 20 \log (\mu\text{V/m})$

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 (config 1, 2, 3, 5, 7)

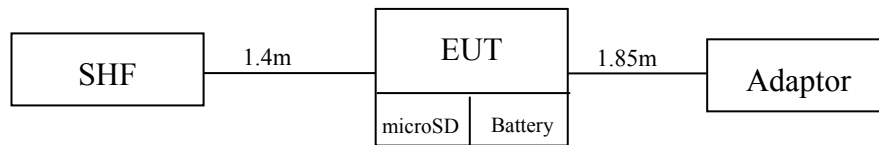


Fig. 2-1 Configuration of Tested System (config 4)

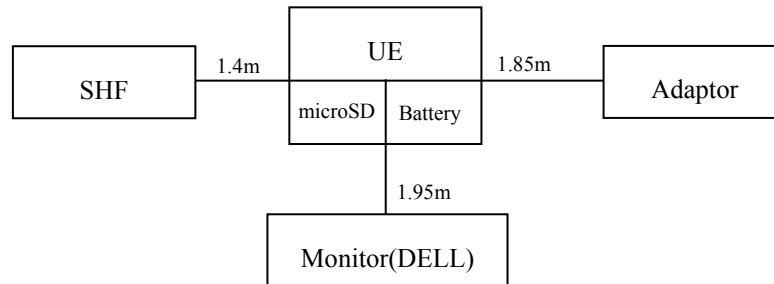
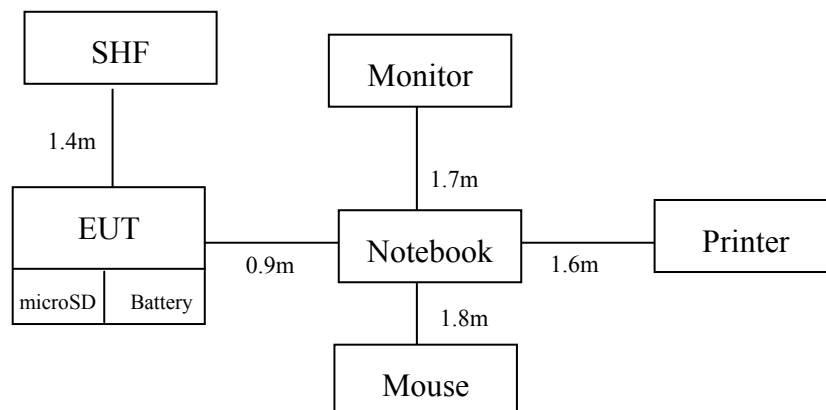


Fig. 2-2 Configuration of Tested System (config 6)



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Fig. 2-3 Configuration of Tested System (Remote Side)

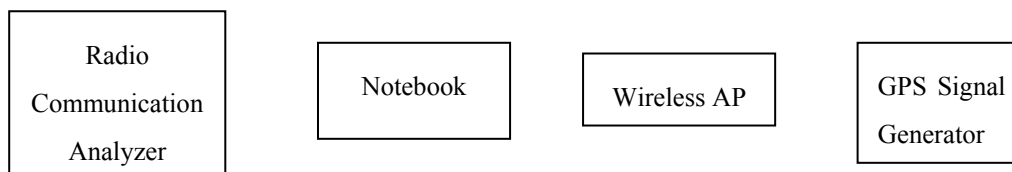


Table 2-1 Support Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	FCC ID	Data Cable	Power Cord
1.	Radio Communication Analyzer	R&S	CMU200	102189	N/A	N/A	N/A
2.	Notebook	Lenovo	L412	LR-ZYMYD 10/12	N/A	0.9m Un-shielded	Un-shielded
3.	Monitor	HP	Vf51	TWTFG01092	N/A	1.9m Un-shielded	Un-shielded
4.	Monitor	DELL	U2410-3Y	082WXD	N/A	Un-shielded	Un-shielded
5.	Printer	HP	DJ640C	TH12QE110Y	N/A	1.6m Un-shielded	Un-shielded
6.	Mouse	HP	MO19UCA	020507020	N/A	1.8m, Un-Shielded	Un-shielded
7.	GPS Signal Generator	WELNAVIGAT E INC.	GS 50	607492	N/A	Un-Shielded	Un-shielded
8.	Wireless AP	D-Link	DIR-300	P1DY29A000 133	KA2DIR300B 1	1.46m, Un-Shielded	Un-shielded

Table 2-2 Support Equipment: Notebook Key Part

NO.	Equipment	Trade Name	Model Name
1	CPU	Intel	M380 (2.53GHz)
2	Memory	N/A	N/A (1.86GHz)

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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.

The data cable was connected to notebook PC and data transferred by program.

Test Plan:

MB865		<i>Config 1</i>	<i>Config 2</i>	<i>Config 3</i>	<i>Config 4</i>
	Applicable standard (FCC)	Part 15B			
	Accessories	UE + Battery + AC Adaptor + SHF	UE + Battery + AC Adaptor + SHF	UE + Battery + AC Adaptor + SHF	UE + Battery + AC Adaptor + SHF + HDMI Cable
		1KHz & Color bar	FM	Camera	HDMI
EN No.	Description				
8.2	radiated emission	Play mode	FM mode	REC mode	Play mode
8.3	conducted emission (DC Power)	NA	N/A	NA	NA
8.4	conducted emission (AC Power)	Play mode	FM mode	REC mode	Play mode

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MB865		Config 5	Config 6	Config 7
	Applicable standard (FCC)	Part 15B		
	Accessories	UE + Battery + AC Adaptor + SHF	UE + Battery + Data cable + SHF	UE + Battery + AC Adaptor
		Data (SD & Internal storage)	Data (PC link)	GPS
		Play Music	Camera REC	Camera REC
EN No.	Description			
8.2	radiated emission	Data link	Data link	GPS mode
8.3	conducted emission (DC Power)	N/A	N/A	N/A
8.4	conducted emission (AC Power)	Data link	Data link	GPS mode

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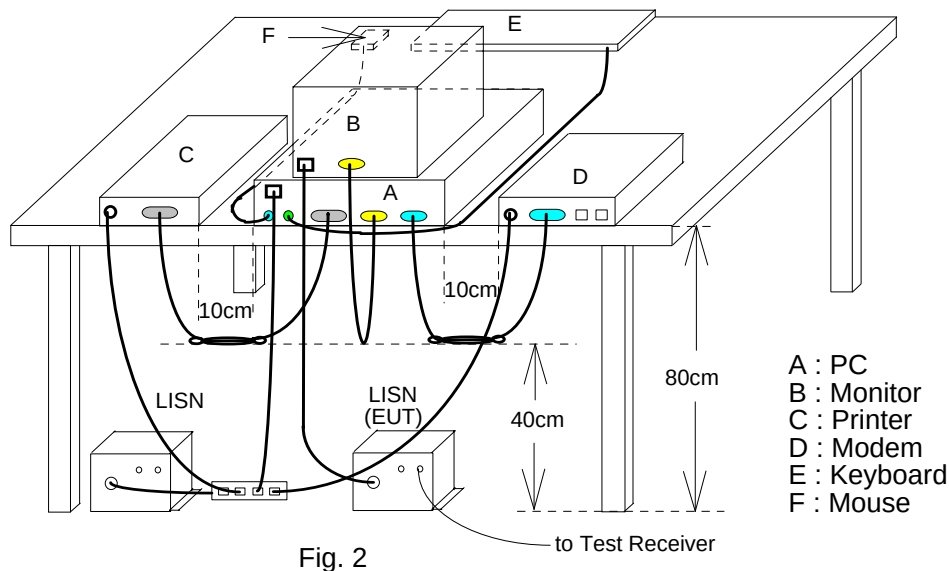
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5. Conducted Emissions Test

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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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	09/23/2010	09/22/2011
LISN	Rolf-Heine	NNB-2/16Z	99012	03/31/2011	03/30/2012
LISN	FCC	FCC-LISN-50/250-25-2-01	04034	03/31/2011	03/30/2012
Coaxial Cables	N/A	WK CE Cable	N/A	11/27/2010	11/26/2011

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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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 1	Test Date:	Jun. 13, 2011
		Test By:	Nick



Site SGS CONDUCTED #1
 Limit: FCC Class B Conduction(QP)
 EUT: Edison
 M/N: MB865
 Note: Full Function (Play mode) _config1

Phase: L1
 Power: AC 120V/60Hz
 Distance:

Temperature: 24 °C
 Humidity: 61%
 Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.4159	43.89	0.12	44.01	57.53	-13.52	QP	
2	*	0.4159	36.99	0.12	37.11	47.53	-10.42	AVG	
3		0.4800	40.77	0.12	40.89	56.34	-15.45	peak	
4		1.4164	35.29	0.13	35.42	56.00	-20.58	QP	
5		1.4164	7.63	0.13	7.76	46.00	-38.24	AVG	
6		2.1581	40.37	0.15	40.52	56.00	-15.48	QP	
7		2.1581	30.33	0.15	30.48	46.00	-15.52	AVG	
8		3.0653	38.67	0.16	38.83	56.00	-17.17	QP	
9		3.0653	22.62	0.16	22.78	46.00	-23.22	AVG	
10		4.7020	34.02	0.18	34.20	56.00	-21.80	QP	
11		4.7020	21.05	0.18	21.23	46.00	-24.77	AVG	

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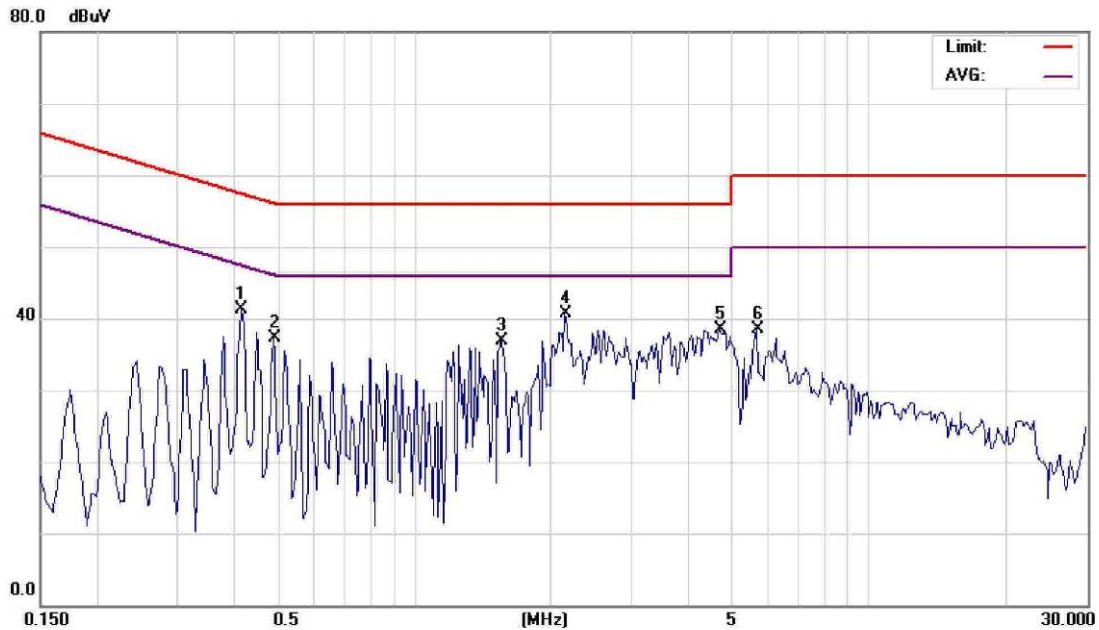
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Site SGS CONDUCTED #1

Phase: **N**

Temperature: 24 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 61%

EUT: Edison

Distance:

Air Pressure: hpa

M/N: MB865

Note: Full Function (Play mode) _config1

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.4150	41.15	0.12	41.27	57.55	-16.28	peak	
2		0.4900	37.23	0.12	37.35	56.17	-18.82	peak	
3		1.5600	36.75	0.13	36.88	56.00	-19.12	peak	
4	*	2.1500	40.54	0.15	40.69	56.00	-15.31	peak	
5		4.7000	38.34	0.18	38.52	56.00	-17.48	peak	
6		5.7000	38.21	0.21	38.42	60.00	-21.58	peak	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 2	Test Date:	Jun. 13, 2011
		Test By:	Nick



Site SGS CONDUCTED #1

Phase: L1

Temperature: 24 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 61%

EUT: Edison

Distance:

Air Pressure: hpa

M/N: MB865

Note: Full Function (FM mode) _config2

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBμV	dB	dBμV	dBμV	dB		
1		0.4200	44.80	0.12	44.92	57.45	-12.53	QP	
2	*	0.4200	36.54	0.12	36.66	47.45	-10.79	AVG	
3		1.5775	38.45	0.13	38.58	56.00	-17.42	QP	
4		1.5775	23.29	0.13	23.42	46.00	-22.58	AVG	
5		2.1352	38.44	0.15	38.59	56.00	-17.41	QP	
6		2.1352	18.83	0.15	18.98	46.00	-27.02	AVG	
7		3.0608	39.30	0.16	39.46	56.00	-16.54	QP	
8		3.0608	26.40	0.16	26.56	46.00	-19.44	AVG	
9		4.4992	40.13	0.18	40.31	56.00	-15.69	QP	
10		4.4992	24.67	0.18	24.85	46.00	-21.15	AVG	
11		7.2400	40.37	0.28	40.65	60.00	-19.35	peak	

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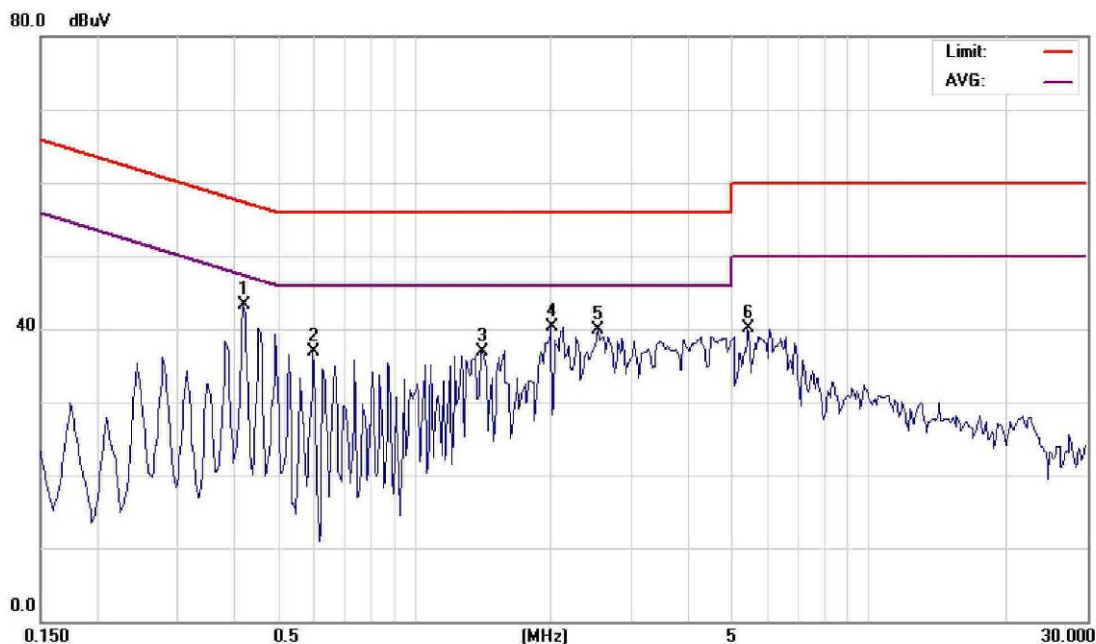
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Site SGS CONDUCTED #1

Phase: **N**

Temperature: 24 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 61%

EUT: Edison

Distance:

Air Pressure: hpa

M/N: MB865

Note: Full Function (FM mode) _config2

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.4200	43.27	0.12	43.39	57.45	-14.06	peak	
2		0.6000	36.70	0.12	36.82	56.00	-19.18	peak	
3		1.4100	36.84	0.13	36.97	56.00	-19.03	peak	
4		2.0100	40.20	0.15	40.35	56.00	-15.65	peak	
5		2.5400	39.68	0.16	39.84	56.00	-16.16	peak	
6		5.4400	39.89	0.20	40.09	60.00	-19.91	peak	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 3	Test Date:	Jun. 13, 2011
		Test By:	Nick



Site SGS CONDUCTED #1
 Limit: FCC Class B Conduction(QP)
 EUT: Edison
 M/N: MB865
 Note: Full Function (REC mode) _config3

Phase: L1
 Power: AC 120V/60Hz
 Distance:

Temperature: 24 °C
 Humidity: 61%
 Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBμV	Factor dB	Measure- ment dBμV	Limit dBμV	Over dB	Detector	Comment
1		0.4149	44.52	0.12	44.64	57.55	-12.91	QP	
2	*	0.4149	37.66	0.12	37.78	47.55	-9.77	AVG	
3		0.5191	40.69	0.12	40.81	56.00	-15.19	QP	
4		0.5191	30.42	0.12	30.54	46.00	-15.46	AVG	
5		1.4108	39.56	0.13	39.69	56.00	-16.31	QP	
6		1.4108	23.80	0.13	23.93	46.00	-22.07	AVG	
7		2.2685	36.94	0.15	37.09	56.00	-18.91	QP	
8		2.2685	18.12	0.15	18.27	46.00	-27.73	AVG	
9		2.8918	37.99	0.16	38.15	56.00	-17.85	QP	
10		2.8918	19.80	0.16	19.96	46.00	-26.04	AVG	
11		4.7324	38.58	0.18	38.76	56.00	-17.24	QP	
12		4.7324	24.02	0.18	24.20	46.00	-21.80	AVG	

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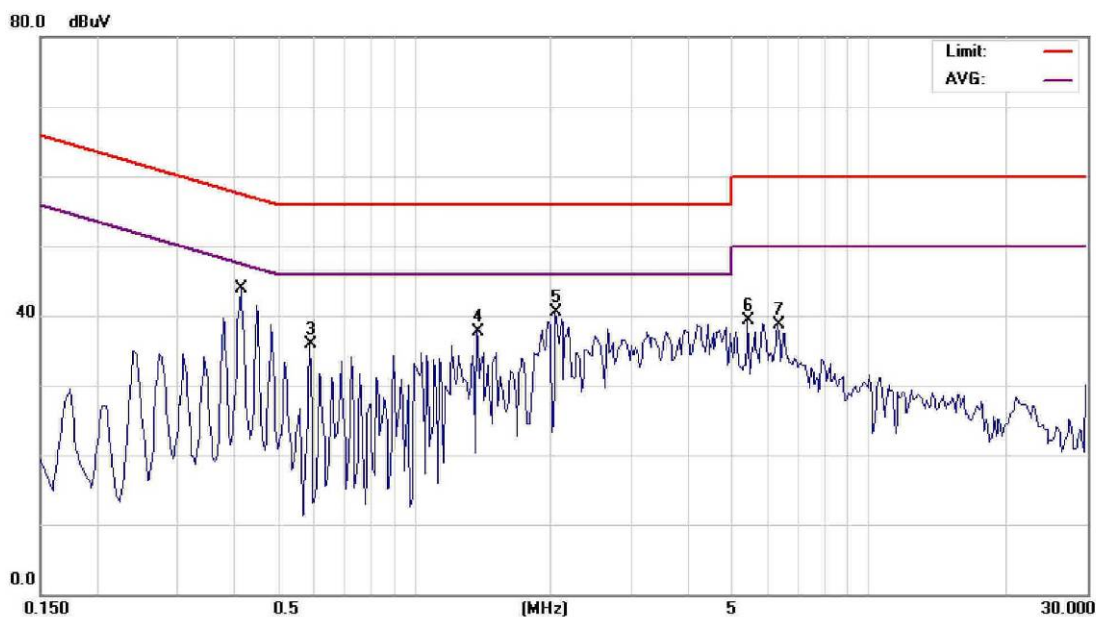
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Site SGS CONDUCTED #1

Phase: **N**

Temperature: 24 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 61%

EUT: Edison

Distance:

Air Pressure: hpa

M/N: MB865

Note: Full Function (REC mode) _config3

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.4147	42.85	0.12	42.97	57.55	-14.58	QP	
2	*	0.4147	35.85	0.12	35.97	47.55	-11.58	AVG	
3		0.5900	35.71	0.12	35.83	56.00	-20.17	peak	
4		1.3800	37.51	0.13	37.64	56.00	-18.36	peak	
5		2.0500	40.27	0.15	40.42	56.00	-15.58	peak	
6		5.4200	39.14	0.20	39.34	60.00	-20.66	peak	
7		6.3200	38.53	0.24	38.77	60.00	-21.23	peak	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 4	Test Date:	Jun. 13, 2011
Resolution:	Low (HD-480-272)	Test By:	Nick



Site SGS CONDUCTED #1
Limit: FCC Class B Conduction(QP)
EUT: Edison
M/N: MB865
Note: Play mode(HDMI-480*272) _config4

Phase: L1
Power: AC 120V/60Hz
Distance:

Temperature: 24 °C
Humidity: 61%
Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.4249	50.99	0.12	51.11	57.35	-6.24	QP	
2		0.4249	40.13	0.12	40.25	47.35	-7.10	AVG	
3		1.4149	42.63	0.13	42.76	56.00	-13.24	QP	
4		1.4149	30.05	0.13	30.18	46.00	-15.82	AVG	
5		2.1213	45.65	0.15	45.80	56.00	-10.20	QP	
6		2.1213	32.40	0.15	32.55	46.00	-13.45	AVG	
7		2.8665	43.40	0.16	43.56	56.00	-12.44	QP	
8		2.8665	29.59	0.16	29.75	46.00	-16.25	AVG	
9		3.7872	43.75	0.17	43.92	56.00	-12.08	QP	
10		3.7872	32.37	0.17	32.54	46.00	-13.46	AVG	
11		4.8917	45.04	0.18	45.22	56.00	-10.78	QP	
12		4.8917	34.03	0.18	34.21	46.00	-11.79	AVG	

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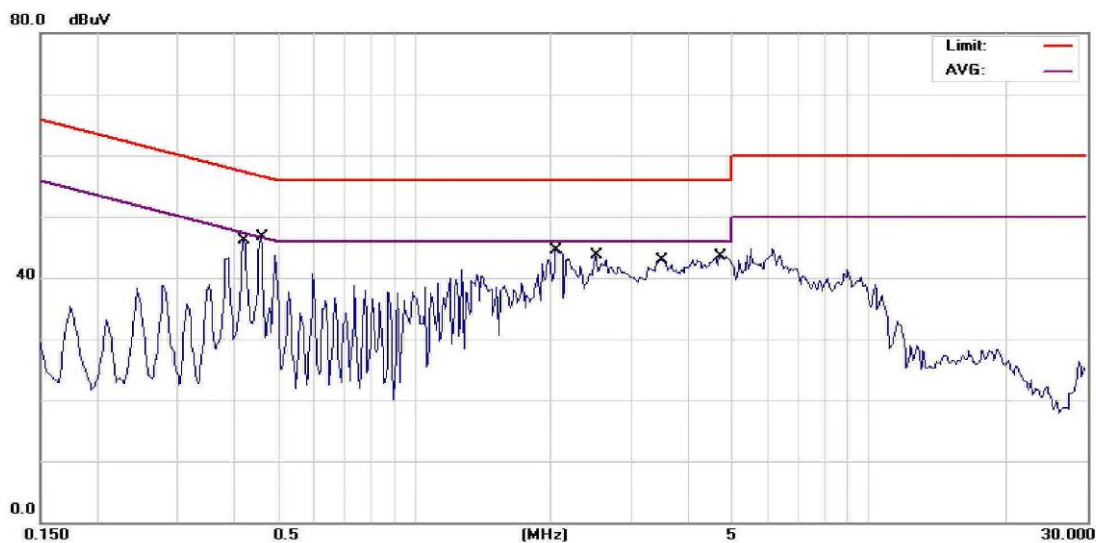
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Site: SGS CONDUCTED #1
 Limit: FCC Class B Conduction(QP)
 EUT: Edison
 M/N: MB865
 Note: Play mode(HDMI-480*272)_config4

Phase: **N**
 Power: AC 120V/60Hz
 Distance:

Temperature: 24 °C
 Humidity: 61%
 Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.4254	45.96	0.16	46.12	57.34	-11.22	QP	
2		0.4254	38.65	0.16	38.81	47.34	-8.53	AVG	
3		0.4597	42.72	0.16	42.88	56.70	-13.82	QP	
4	*	0.4597	38.88	0.16	39.04	46.70	-7.66	AVG	
5		2.0497	42.71	0.18	42.89	56.00	-13.11	QP	
6		2.0497	32.58	0.18	32.76	46.00	-13.24	AVG	
7		2.5142	42.27	0.19	42.46	56.00	-13.54	QP	
8		2.5142	28.18	0.19	28.37	46.00	-17.63	AVG	
9		3.5059	40.60	0.20	40.80	56.00	-15.20	QP	
10		3.5059	28.47	0.20	28.67	46.00	-17.33	AVG	
11		4.6989	37.73	0.22	37.95	56.00	-18.05	QP	
12		4.6989	28.79	0.22	29.01	46.00	-16.99	AVG	

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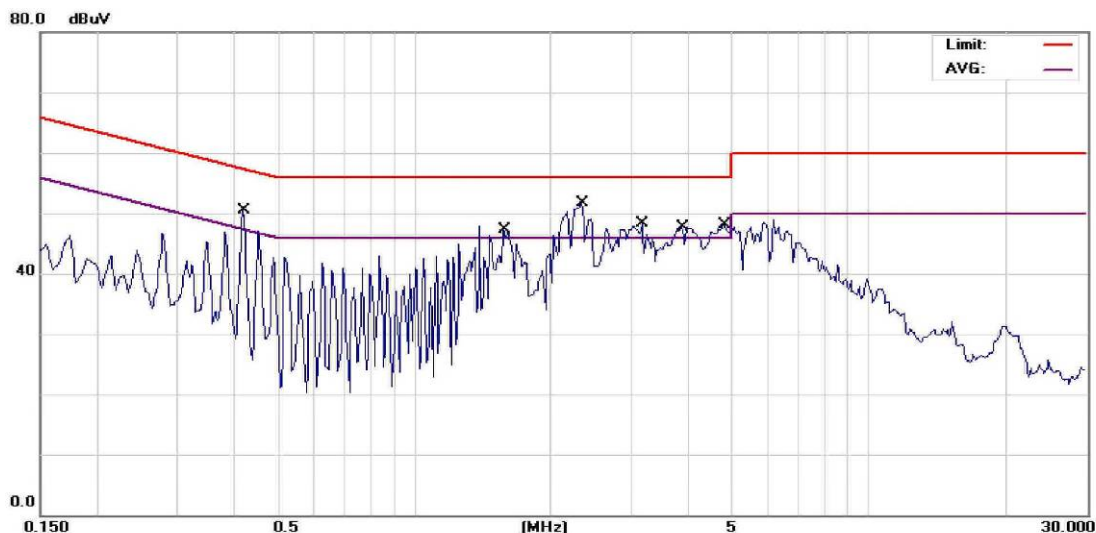
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 4	Test Date:	Jun. 13, 2011
Resolution:	Mid (HD-1280-720)	Test By:	Nick



Site: SGS CONDUCTED #1
 Limit: FCC Class B Conduction(QP)
 EUT: Edison
 M/N: MB865
 Note: Play mode(HDMI-1280*720)_config4

Phase: L1
 Power: AC 120V/60Hz
 Distance:

Temperature: 23 °C
 Humidity: 59%
 Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBμV	Factor dB	Measure- ment dBμV	Limit dBμV	Over dB	Detector	Comment
1		0.4199	48.99	0.12	49.11	57.45	-8.34	QP	
2	*	0.4199	43.35	0.12	43.47	47.45	-3.98	AVG	
3		1.5708	41.82	0.13	41.95	56.00	-14.05	QP	
4		1.5708	35.84	0.13	35.97	46.00	-10.03	AVG	
5		2.3377	48.10	0.15	48.25	56.00	-7.75	QP	
6		2.3377	36.39	0.15	36.54	46.00	-9.46	AVG	
7		3.1535	39.20	0.16	39.36	56.00	-16.64	QP	
8		3.1535	26.55	0.16	26.71	46.00	-19.29	AVG	
9		3.8862	43.94	0.17	44.11	56.00	-11.89	QP	
10		3.8862	24.18	0.17	24.35	46.00	-21.65	AVG	
11		4.8123	37.93	0.18	38.11	56.00	-17.89	QP	
12		4.8123	24.44	0.18	24.62	46.00	-21.38	AVG	

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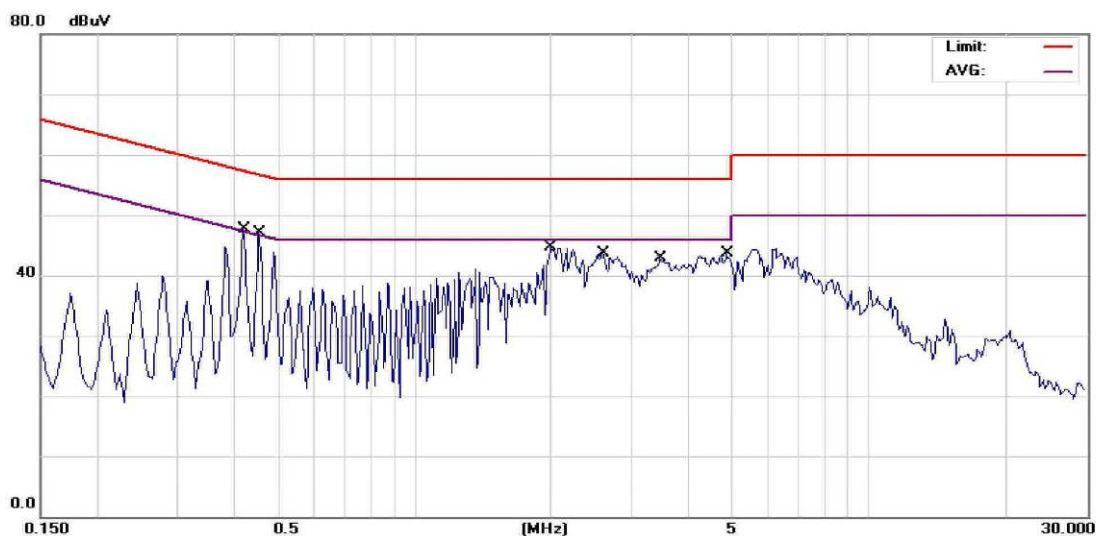
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Site: SGS CONDUCTED #1
 Limit: FCC Class B Conduction(QP)
 EUT: Edison
 M/N: MB865
 Note: Play mode(HDMI-1280*720)_config4

Phase: N
 Power: AC 120V/60Hz
 Distance:

Temperature: 23 °C
 Humidity: 59%
 Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.4224	45.98	0.16	46.14	57.40	-11.26	QP	
2		0.4224	38.77	0.16	38.93	47.40	-8.47	AVG	
3		0.4565	46.23	0.16	46.39	56.76	-10.37	QP	
4	*	0.4565	38.51	0.16	38.67	46.76	-8.09	AVG	
5		2.0030	42.37	0.18	42.55	56.00	-13.45	QP	
6		2.0030	27.49	0.18	27.67	46.00	-18.33	AVG	
7		2.5977	41.02	0.19	41.21	56.00	-14.79	QP	
8		2.5977	31.81	0.19	32.00	46.00	-14.00	AVG	
9		3.4753	39.67	0.20	39.87	56.00	-16.13	QP	
10		3.4753	28.82	0.20	29.02	46.00	-16.98	AVG	
11		4.8701	37.91	0.22	38.13	56.00	-17.87	QP	
12		4.8701	26.95	0.22	27.17	46.00	-18.83	AVG	

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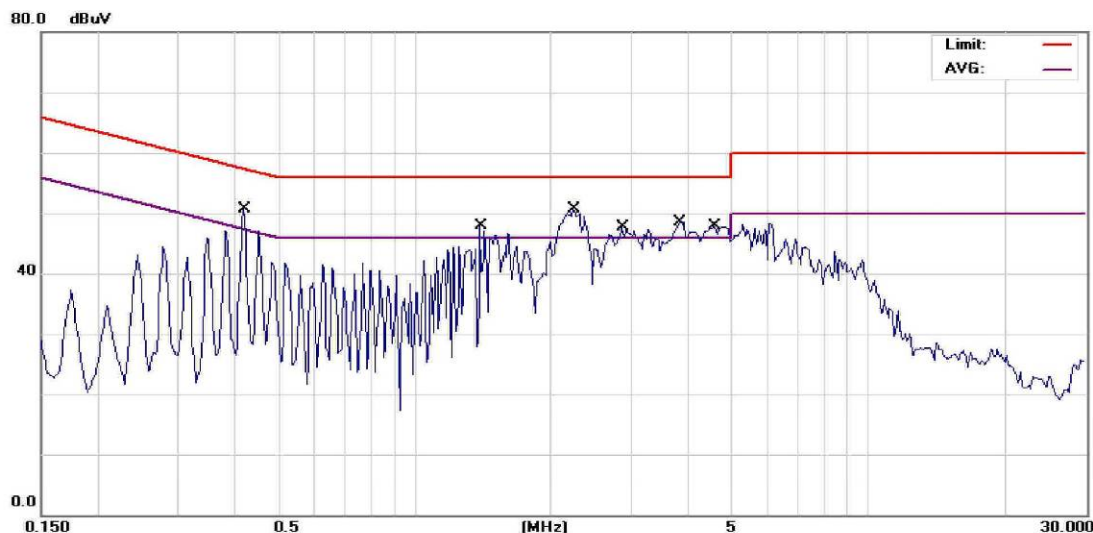
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 4	Test Date:	Jun. 13, 2011
Resolution:	High (HD-1920-1080)	Test By:	Nick



Site: SGS CONDUCTED #1
 Limit: FCC Class B Conduction(QP)
 EUT: Edison
 M/N: MB865
 Note: Play mode(HDMI_1920*1080)_config4

Phase: L1
 Power: AC 120V/60Hz
 Distance:

Temperature: 24 °C
 Humidity: 61%
 Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.4194	45.24	0.12	45.36	57.46	-12.10	QP	
2	*	0.4194	37.37	0.12	37.49	47.46	-9.97	AVG	
3		1.3986	45.36	0.13	45.49	56.00	-10.51	QP	
4		1.3986	35.45	0.13	35.58	46.00	-10.42	AVG	
5		2.2333	41.47	0.15	41.62	56.00	-14.38	QP	
6		2.2333	27.31	0.15	27.46	46.00	-18.54	AVG	
7		2.8691	43.29	0.16	43.45	56.00	-12.55	QP	
8		2.8691	26.24	0.16	26.40	46.00	-19.60	AVG	
9		3.8520	39.65	0.17	39.82	56.00	-16.18	QP	
10		3.8520	24.68	0.17	24.85	46.00	-21.15	AVG	
11		4.5779	44.87	0.18	45.05	56.00	-10.95	QP	
12		4.5779	26.98	0.18	27.16	46.00	-18.84	AVG	

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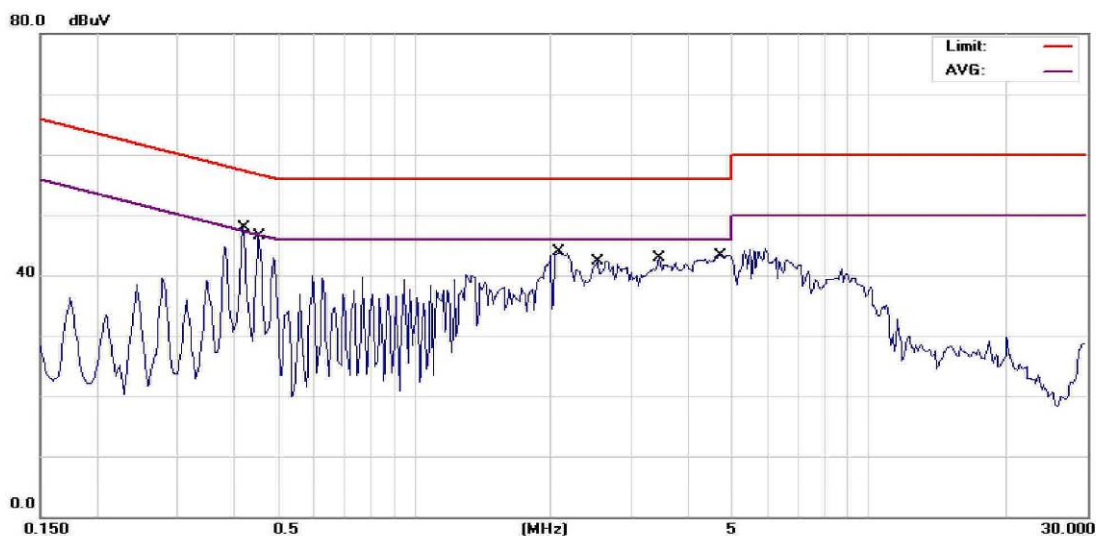
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Site SGS CONDUCTED #1

Phase: N

Temperature: 24 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 61%

EUT: Edison

Distance:

Air Pressure: hpa

M/N: MB865

Note: Play mode(HDMI_1920*1080)_config4

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.4213	46.26	0.16	46.42	57.42	-11.00	QP	
2	*	0.4213	38.12	0.16	38.28	47.42	-9.14	AVG	
3		0.4572	46.05	0.16	46.21	56.74	-10.53	QP	
4		0.4572	36.71	0.16	36.87	46.74	-9.87	AVG	
5		2.0680	41.15	0.18	41.33	56.00	-14.67	QP	
6		2.0680	30.01	0.18	30.19	46.00	-15.81	AVG	
7		2.5326	39.58	0.19	39.77	56.00	-16.23	QP	
8		2.5326	23.72	0.19	23.91	46.00	-22.09	AVG	
9		3.4760	39.65	0.20	39.85	56.00	-16.15	QP	
10		3.4760	28.99	0.20	29.19	46.00	-16.81	AVG	
11		4.7129	39.72	0.22	39.94	56.00	-16.06	QP	
12		4.7129	24.43	0.22	24.65	46.00	-21.35	AVG	

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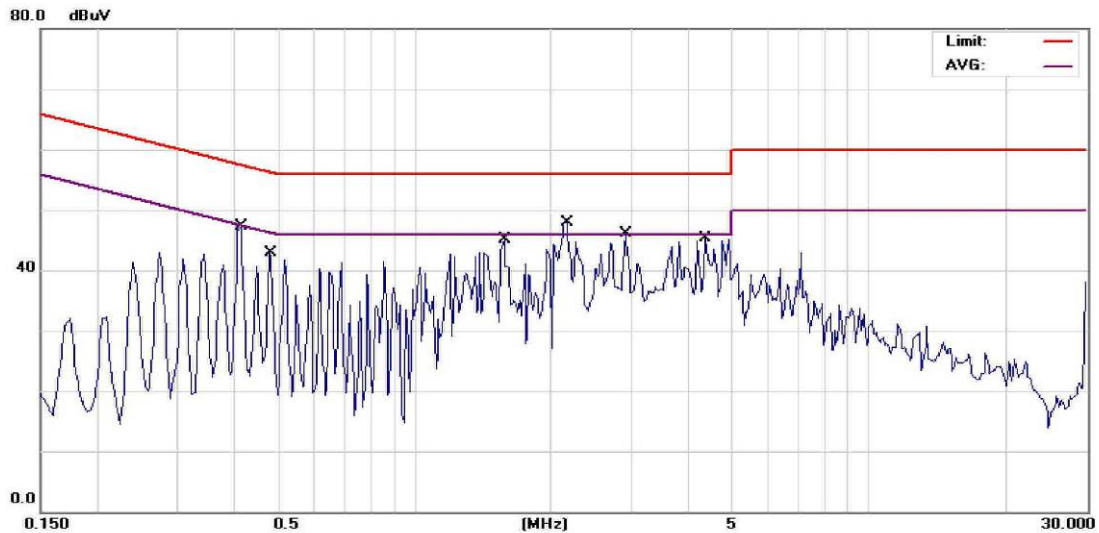
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 5	Test Date:	Jun. 13, 2011
		Test By:	Nick



Site SGS CONDUCTED #1

Phase: L1

Temperature: 24 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 61%

EUT: Edison

Distance:

Air Pressure: hpa

M/N: MB865

Note: Full Function (Data link) _config5 _Flash to SD

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over		
		MHz	dBμV	dB	dBμV	dBμV	dB	Detector	Comment
1		0.4140	43.81	0.12	43.93	57.57	-13.64	QP	
2	*	0.4140	36.54	0.12	36.66	47.57	-10.91	AVG	
3		0.4803	37.87	0.12	37.99	56.33	-18.34	QP	
4		0.4803	28.04	0.12	28.16	46.33	-18.17	AVG	
5		1.5734	37.04	0.13	37.17	56.00	-18.83	QP	
6		1.5734	18.89	0.13	19.02	46.00	-26.98	AVG	
7		2.1561	36.62	0.15	36.77	56.00	-19.23	QP	
8		2.1561	20.18	0.15	20.33	46.00	-25.67	AVG	
9		2.9080	33.81	0.16	33.97	56.00	-22.03	QP	
10		2.9080	27.64	0.16	27.80	46.00	-18.20	AVG	
11		4.3684	36.97	0.18	37.15	56.00	-18.85	QP	
12		4.3684	21.85	0.18	22.03	46.00	-23.97	AVG	

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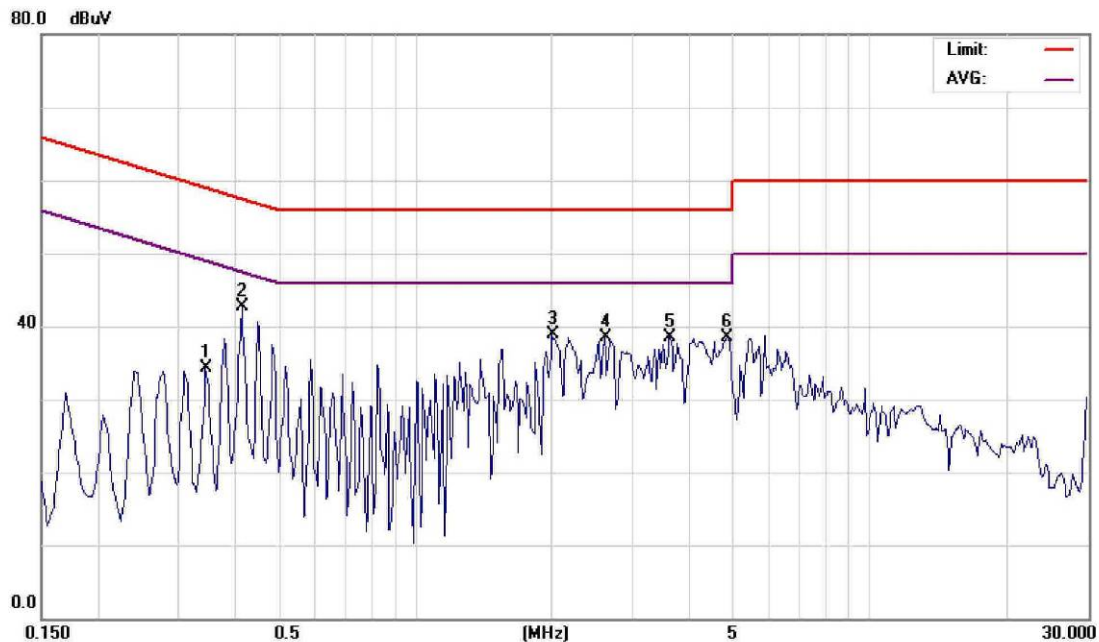
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Site SGS CONDUCTED #1

Phase: N

Temperature: 24 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 61%

EUT: Edison

Distance:

Air Pressure: hpa

M/N: MB865

Note: Full Function (Data link) _config5 _Flash to SD

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.3450	34.17	0.12	34.29	59.08	-24.79	peak	
2	*	0.4150	42.61	0.12	42.73	57.55	-14.82	peak	
3		2.0100	38.75	0.15	38.90	56.00	-17.10	peak	
4		2.6100	38.32	0.16	38.48	56.00	-17.52	peak	
5		3.6400	38.43	0.17	38.60	56.00	-17.40	peak	
6		4.8700	38.33	0.18	38.51	56.00	-17.49	peak	

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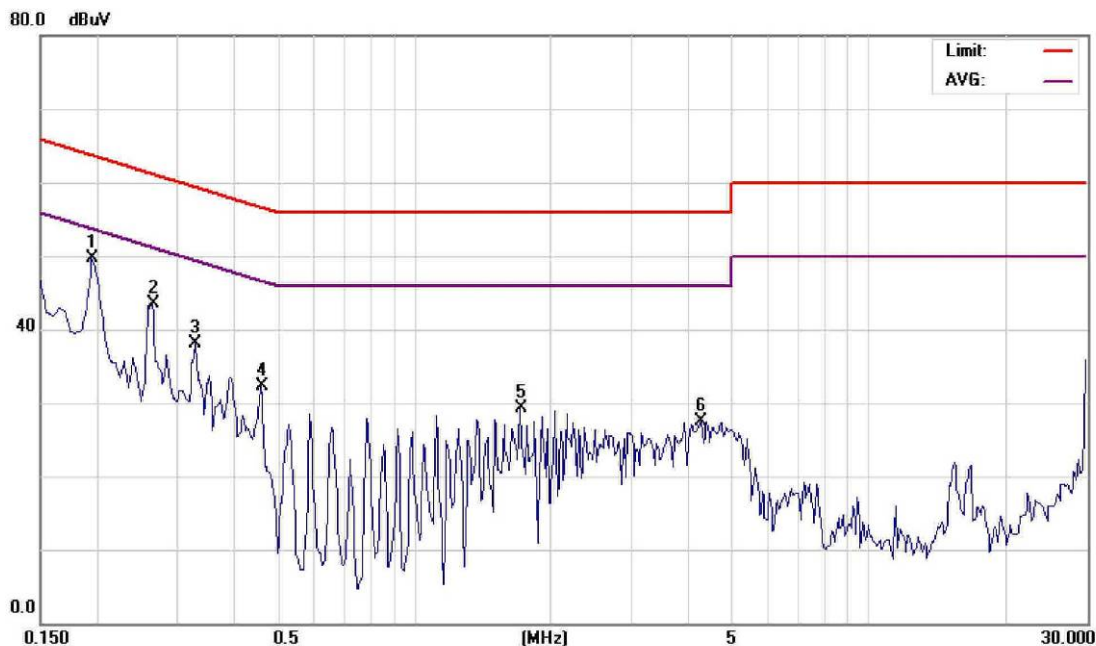
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 6	Test Date:	Jun. 13, 2011
		Test By:	Nick



Site SGS CONDUCTED #1

Phase: L1

Temperature: 24 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 61%

EUT: Edison

Distance:

Air Pressure: hpa

M/N: MB865

Note: Full Function (Data link) _config6

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBμV	dB	dBμV	dBμV	dB		
1	*	0.1950	49.60	0.12	49.72	63.82	-14.10	peak	
2		0.2650	43.37	0.12	43.49	61.27	-17.78	peak	
3		0.3300	37.99	0.12	38.11	59.45	-21.34	peak	
4		0.4600	32.09	0.12	32.21	56.69	-24.48	peak	
5		1.7100	29.21	0.14	29.35	56.00	-26.65	peak	
6		4.2900	27.43	0.17	27.60	56.00	-28.40	peak	

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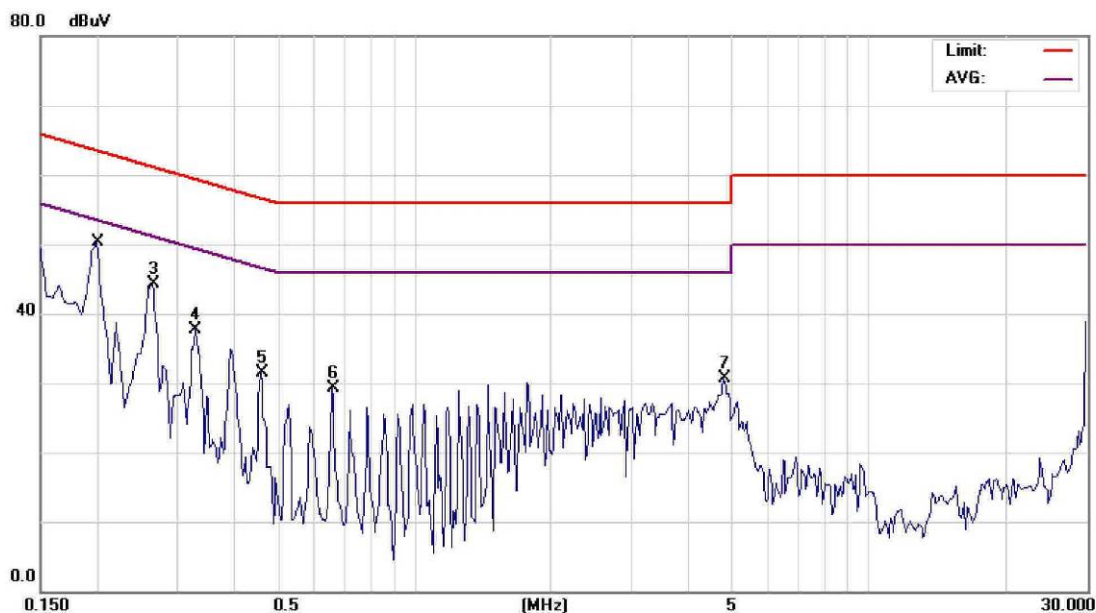
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Site SGS CONDUCTED #1

Phase: **N**

Temperature: 24 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 61%

EUT: Edison

Distance:

Air Pressure: hpa

M/N: MB865

Note: Full Function (Data link) _config6

No.	Mk.	Freq.	Reading	Factor	Measure-	Limit	Over		
		MHz	Level		ment			Detector	Comment
			dBuV	dB	dBuV	dBuV	dB		
1	*	0.1995	48.93	0.12	49.05	63.63	-14.58	QP	
2		0.1995	38.90	0.12	39.02	53.63	-14.61	AVG	
3		0.2650	44.14	0.12	44.26	61.27	-17.01	peak	
4		0.3300	37.63	0.12	37.75	59.45	-21.70	peak	
5		0.4600	31.48	0.12	31.60	56.69	-25.09	peak	
6		0.6600	29.20	0.12	29.32	56.00	-26.68	peak	
7		4.8100	30.56	0.18	30.74	56.00	-25.26	peak	

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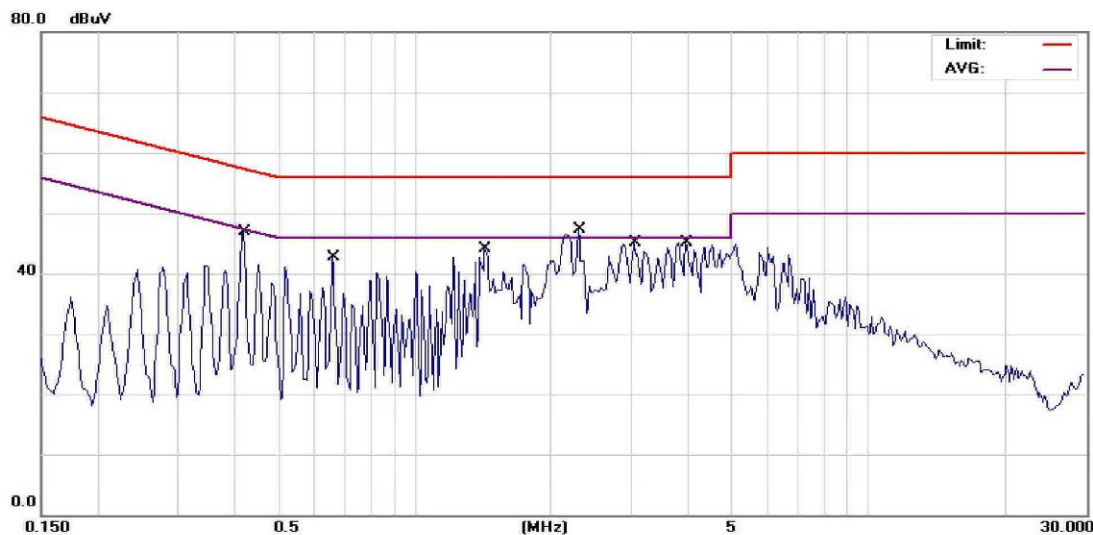
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 7	Test Date:	Jun. 13, 2011
		Test By:	Nick



Site: SGS CONDUCTED #1
 Limit: FCC Class B Conduction(QP)
 EUT: Edison
 M/N: MB865
 Note: GPS mode_config7

Phase: L1
 Power: AC 120V/60Hz
 Distance:

Temperature: 24 °C
 Humidity: 61%
 Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.4178	42.85	0.12	42.97	57.49	-14.52	QP	
2	*	0.4178	37.05	0.12	37.17	47.49	-10.32	AVG	
3		0.6626	38.23	0.12	38.35	56.00	-17.65	QP	
4		0.6626	29.23	0.12	29.35	46.00	-16.65	AVG	
5		1.4292	38.67	0.13	38.80	56.00	-17.20	QP	
6		1.4292	28.45	0.13	28.58	46.00	-17.42	AVG	
7		2.2989	40.58	0.15	40.73	56.00	-15.27	QP	
8		2.2989	29.19	0.15	29.34	46.00	-16.66	AVG	
9		3.0535	33.41	0.16	33.57	56.00	-22.43	QP	
10		3.0535	17.52	0.16	17.68	46.00	-28.32	AVG	
11		3.9665	35.09	0.17	35.26	56.00	-20.74	QP	
12		3.9665	21.45	0.17	21.62	46.00	-24.38	AVG	

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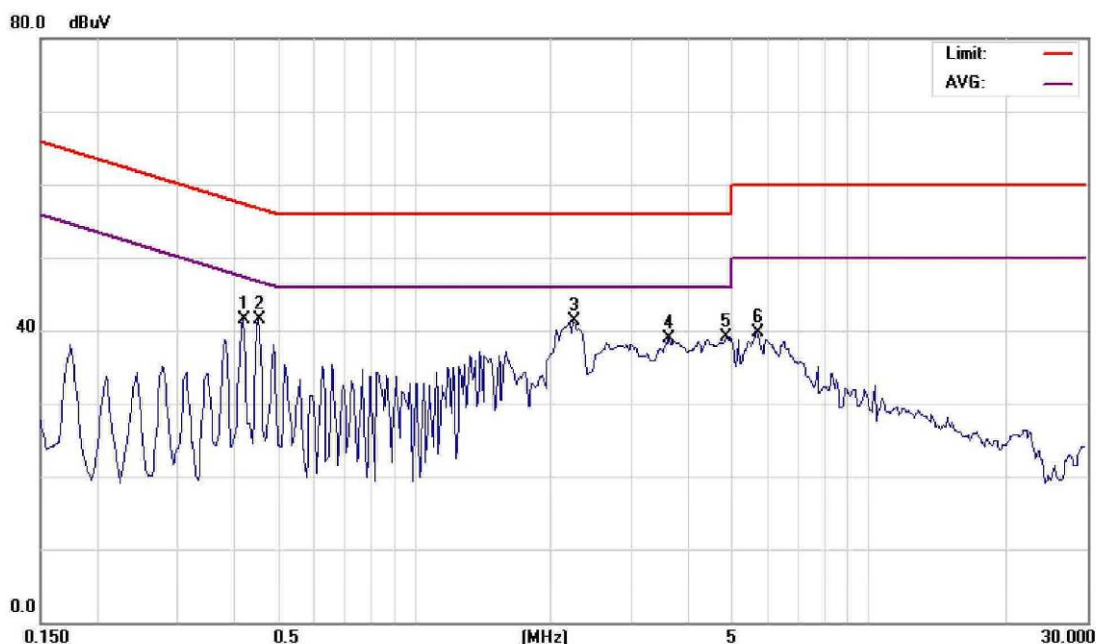
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Site SGS CONDUCTED #1

Phase: N

Temperature: 24 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 61%

EUT: Edison

Distance:

Air Pressure: hpa

M/N: MB865

Note: GPS mode _config7

No.	Mk.	Freq.	Reading	Factor	Measure-	Limit	Over		
		MHz	Level		ment			Detector	Comment
			dBuV	dB	dBuV	dBuV	dB		
1		0.4200	41.40	0.16	41.56	57.45	-15.89	peak	
2		0.4550	41.42	0.16	41.58	56.78	-15.20	peak	
3	*	2.2400	41.13	0.18	41.31	56.00	-14.69	peak	
4		3.6400	38.69	0.20	38.89	56.00	-17.11	peak	
5		4.8600	38.86	0.22	39.08	56.00	-16.92	peak	
6		5.7000	39.46	0.25	39.71	60.00	-20.29	peak	

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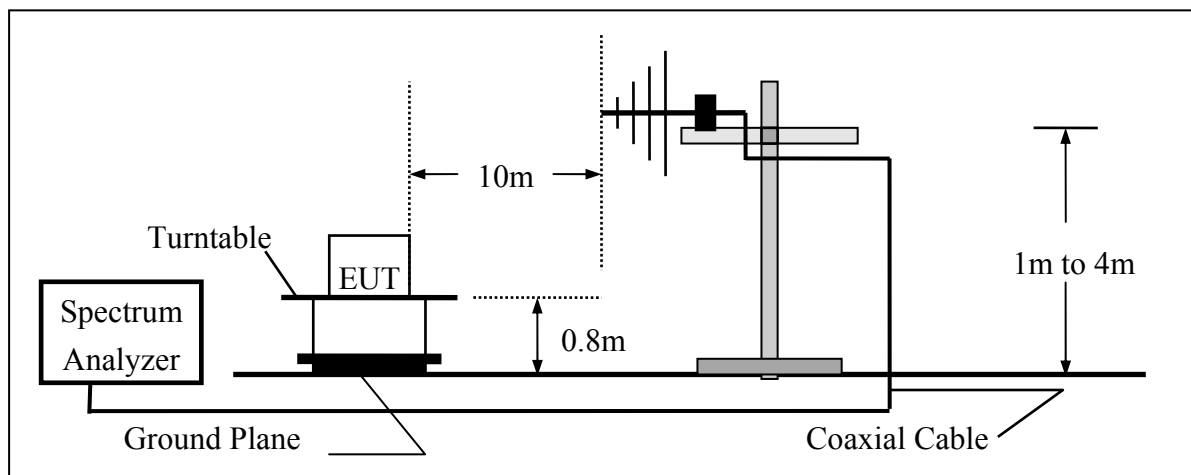
6. Radiated Emission Test

6.1 Measurement Procedure

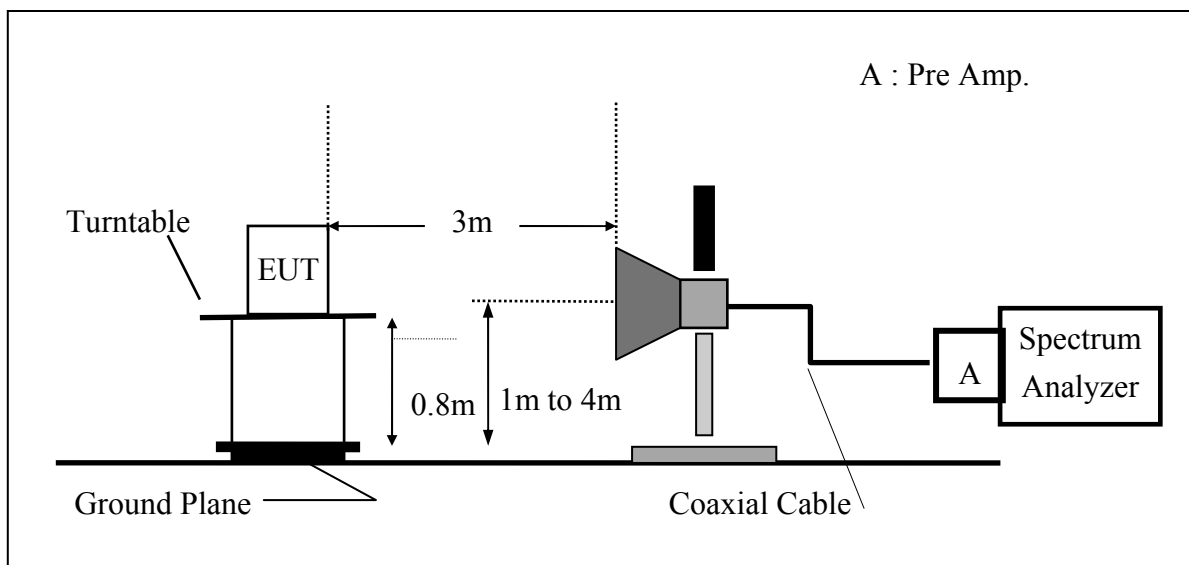
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above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

6.2 Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(B) Radiated Emission Test Set-Up Frequency Over 1 GHz



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6.3 Measurement Equipment Used:

10m Open Area Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI	100335	02/05/2011	02/04/2012
RF-Amplifier	Agilent	8447D	2944A09469	11/27/2010	11/26/2011
Broadband Antenna	SCHWAZBECK	VULB9160	9160-3224	04/21/2011	04/20/2012
Turn Table	HD	DT420	420/542	N/A	N/A
Antenna Master	HD	MA 240	240/515	N/A	N/A
Controller	HD	HD 100	100/589	N/A	N/A
Low Loss Cable	N/A	OS RE Cable	N/A	11/30/2010	11/29/2011

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	03/30/2011	03/29/2012
Bilog Antenna	SCHWAZBECK	VULB9160	3136	11/19/2010	11/18/2011
Horn antenna	SCHWAZBECK	BBHA 9120D	309/320	03/09/2011	03/08/2012
Pre-Amplifier	Agilent	8447D	1937A02834	11/28/2010	11/27/2011
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2011	01/04/2012
Radio Communication Analyzer	R & S	CMU200	102189	08/12/2010	08/11/2012
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	01/05/2011	01/04/2012
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2011	01/04/2012
3m Site	SGS	966 chamber	N/A	09/06/2010	09/05/2011

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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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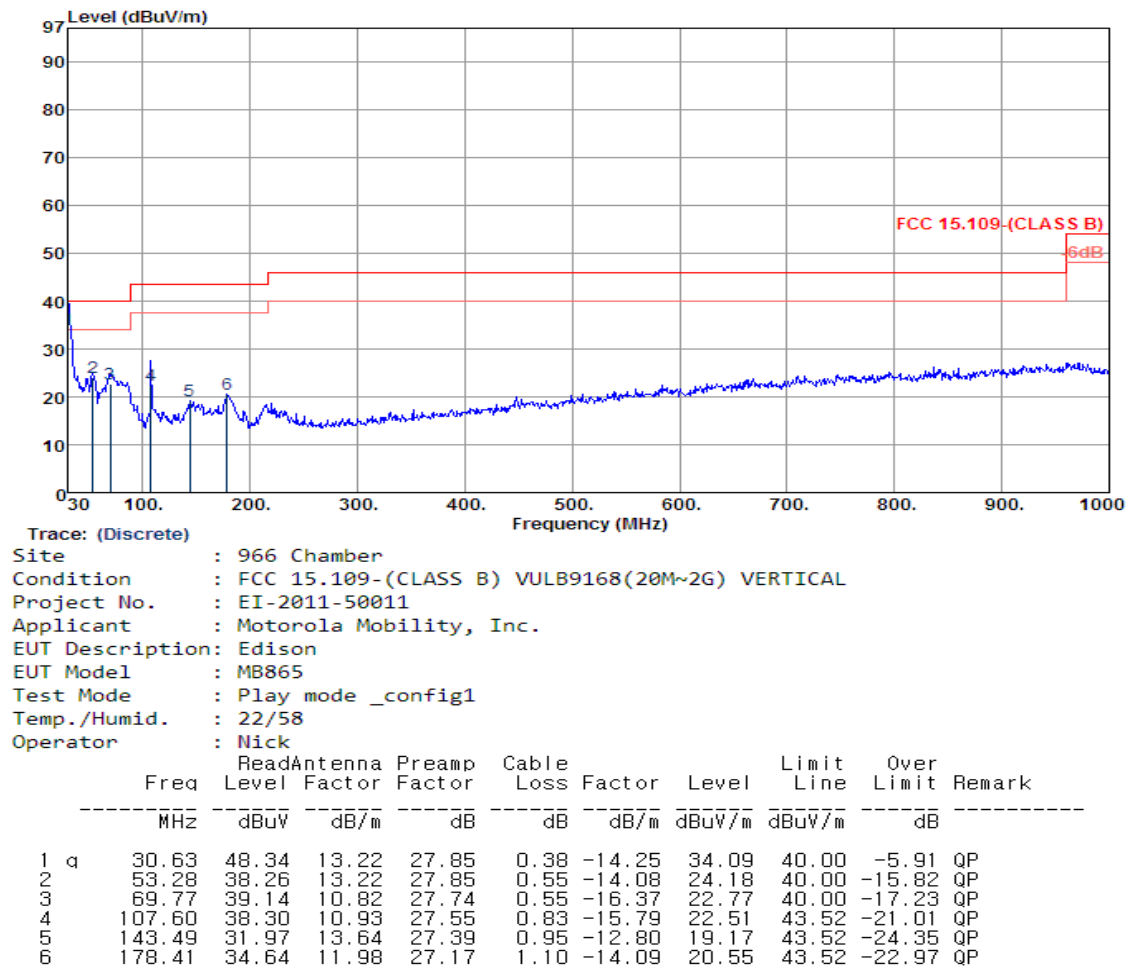
6.5 Measurement Result (below 1G)

Test Mode: Config 1

Test Date : Jun. 13, 2011

Frequency Range: 30MHz-1GHz

Test By: Nick



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

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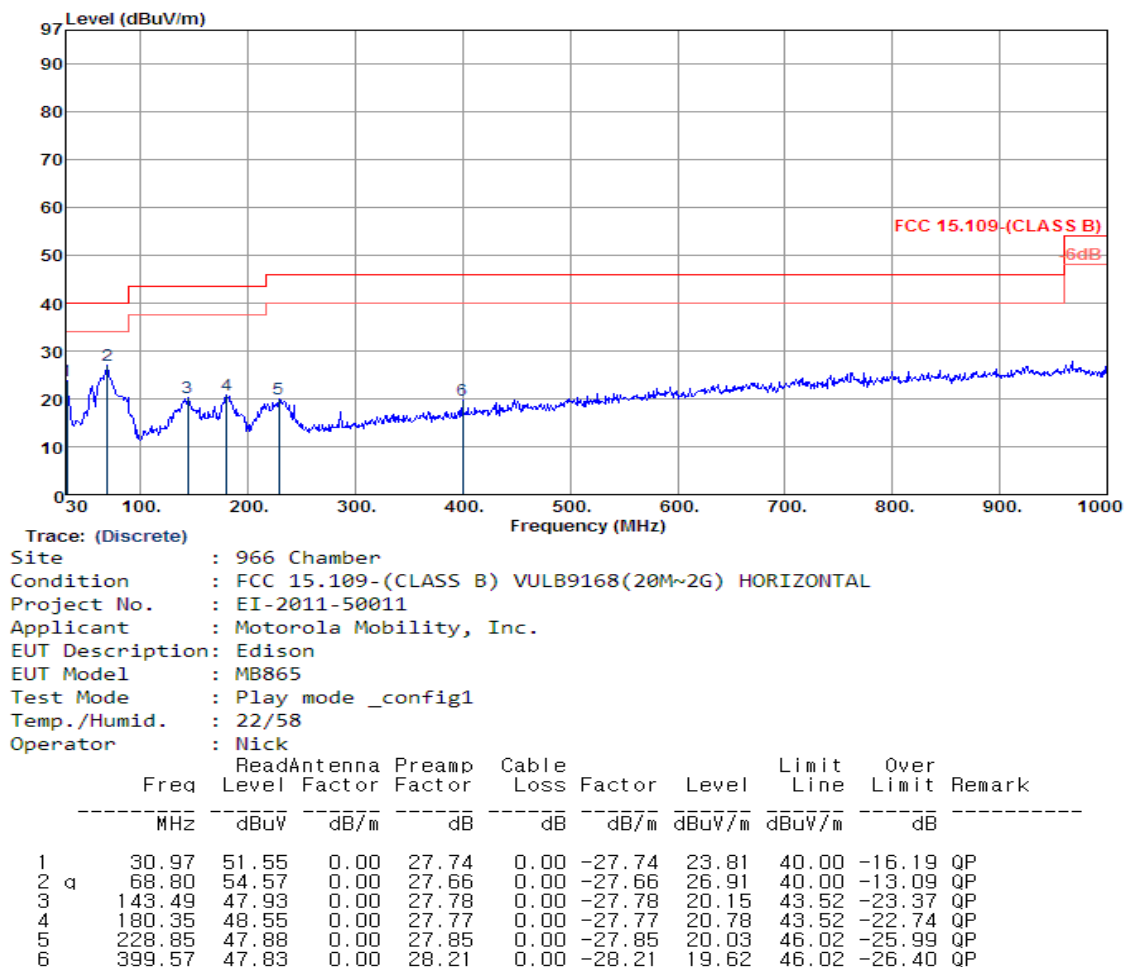
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Test Mode: Config 1
Frequency Range: 30MHz-1GHz

Test Date : Jun. 13, 2011
Test By: Nick



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

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t (886-2) 2299-3279

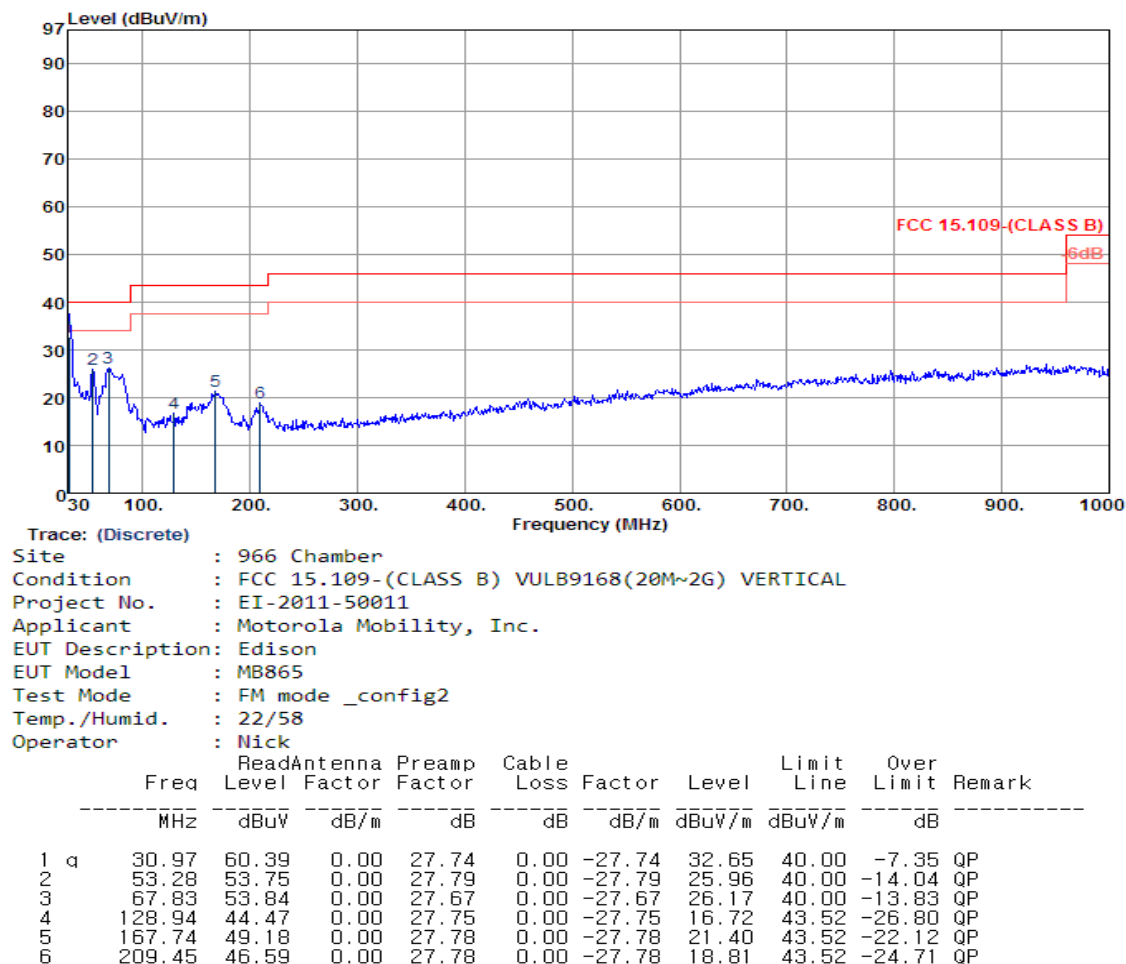
f (886-2) 2298-0488

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Test Mode: Config 2
Frequency Range: 30MHz-1GHz

Test Date : Jun. 13, 2011
Test By: Nick



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

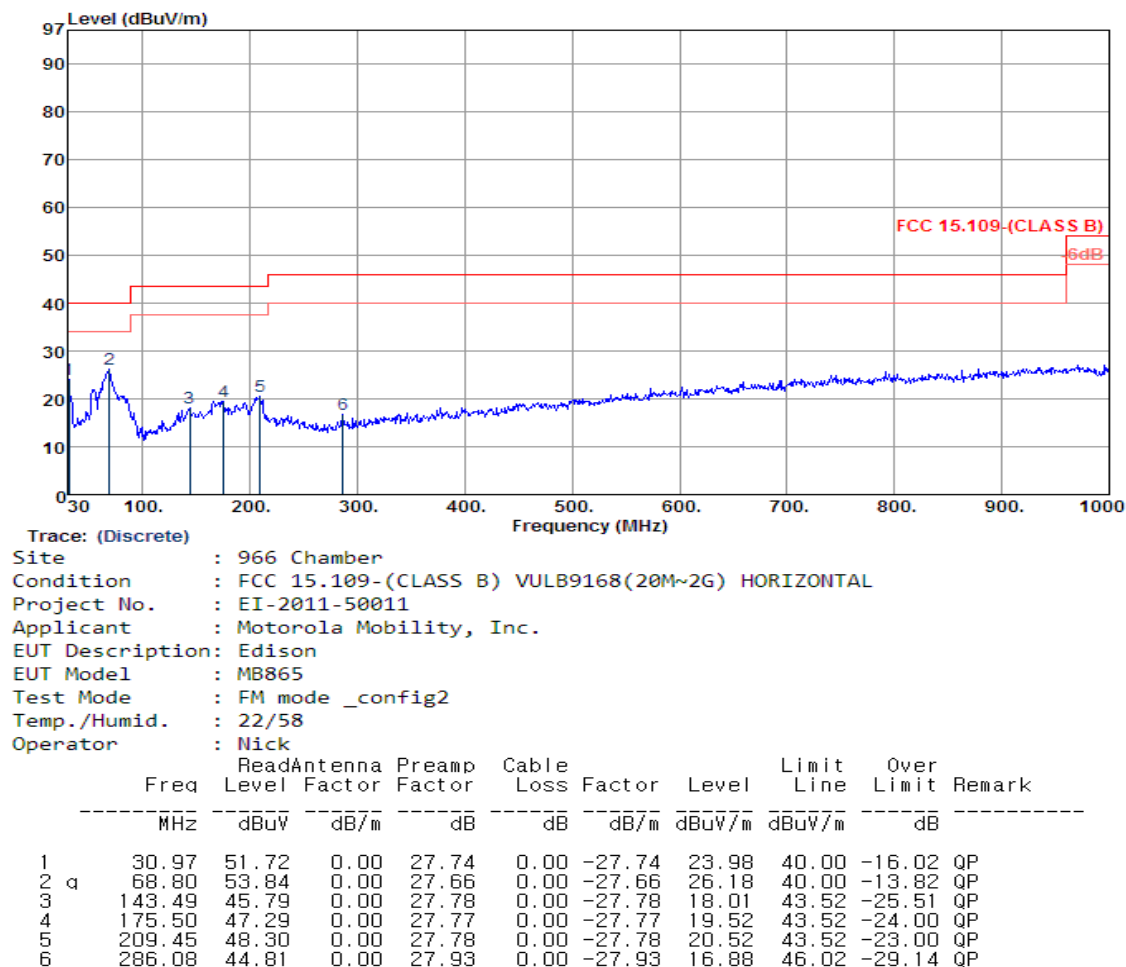
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Test Mode: Config 2
Frequency Range: 30MHz-1GHz

Test Date : Jun. 13, 2011
Test By: Nick



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

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t (886-2) 2299-3279

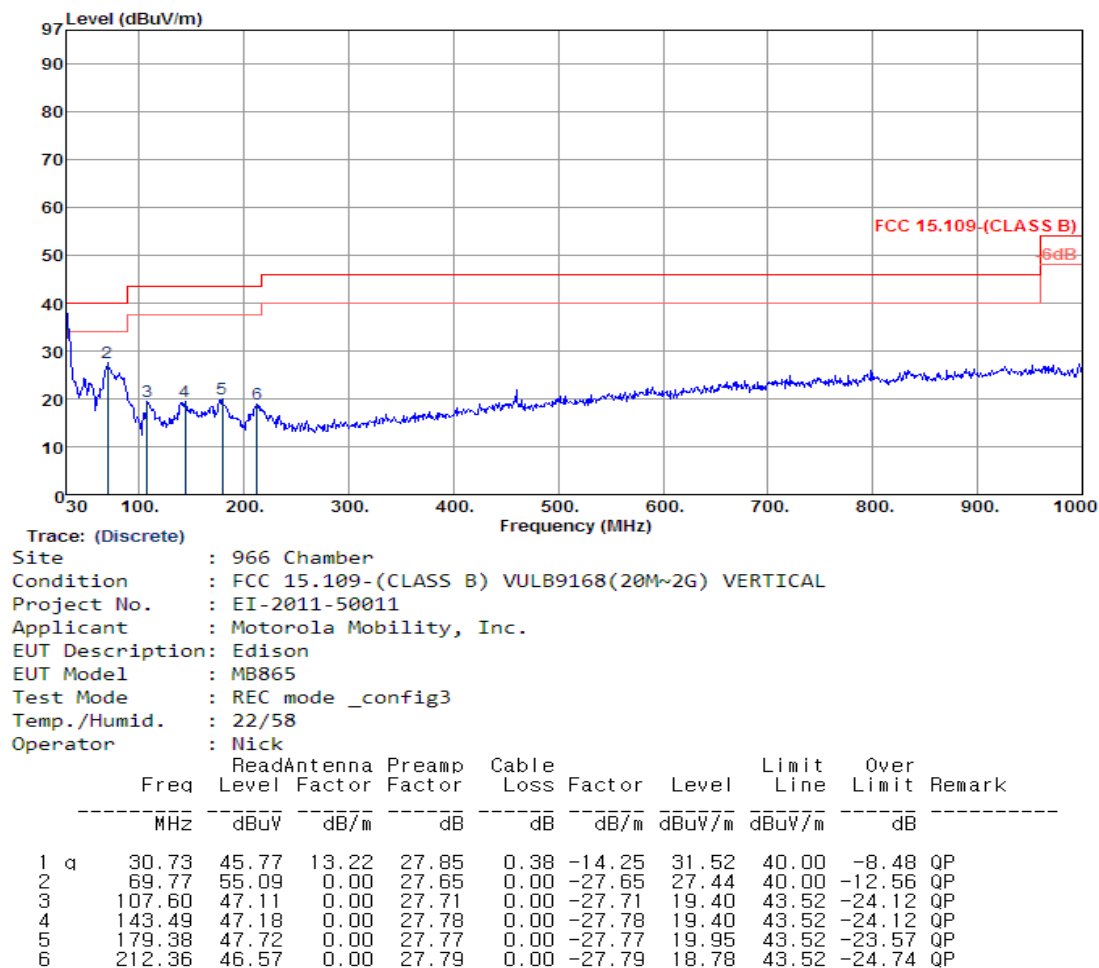
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Test Mode: Config 3
Frequency Range: 30MHz-1GHz

Test Date : Jun. 13, 2011
Test By: Nick



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

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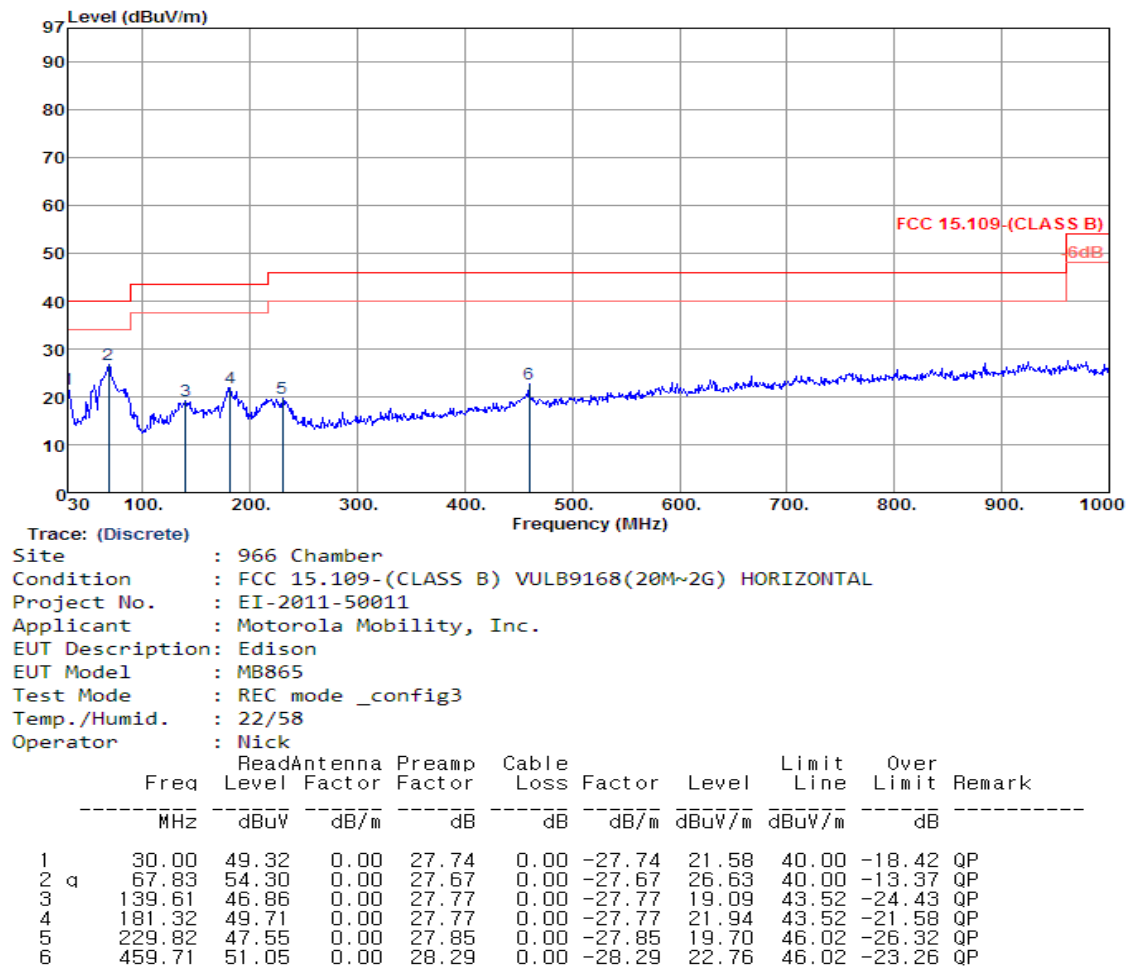
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Test Mode: Config 3
Frequency Range: 30MHz-1GHz

Test Date : Jun. 13, 2011
Test By: Nick



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

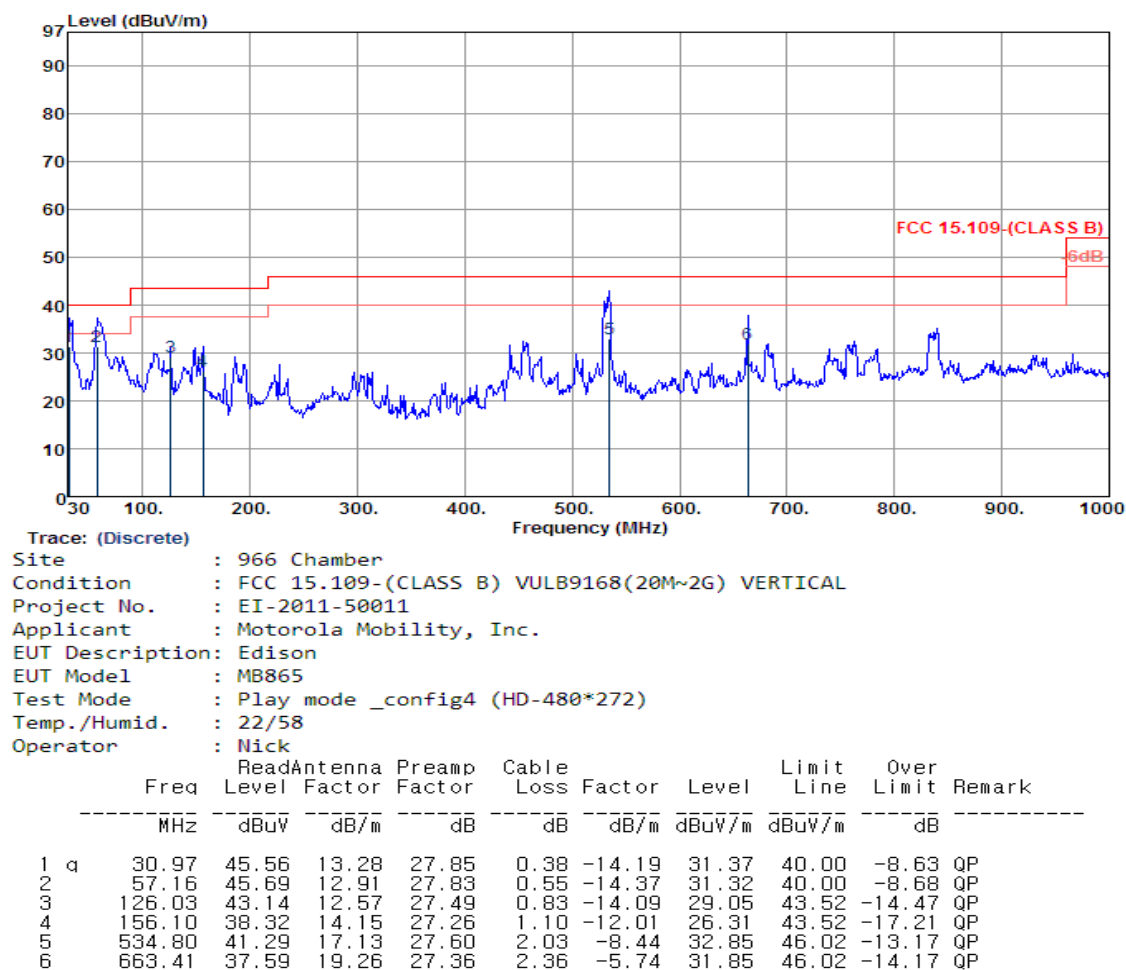
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Test Mode: Config 4
Frequency Range: 30MHz-1GHz

Test Date: Jun. 13, 2011
Test By: Nick
Resolution: Low (HD-480-272)



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

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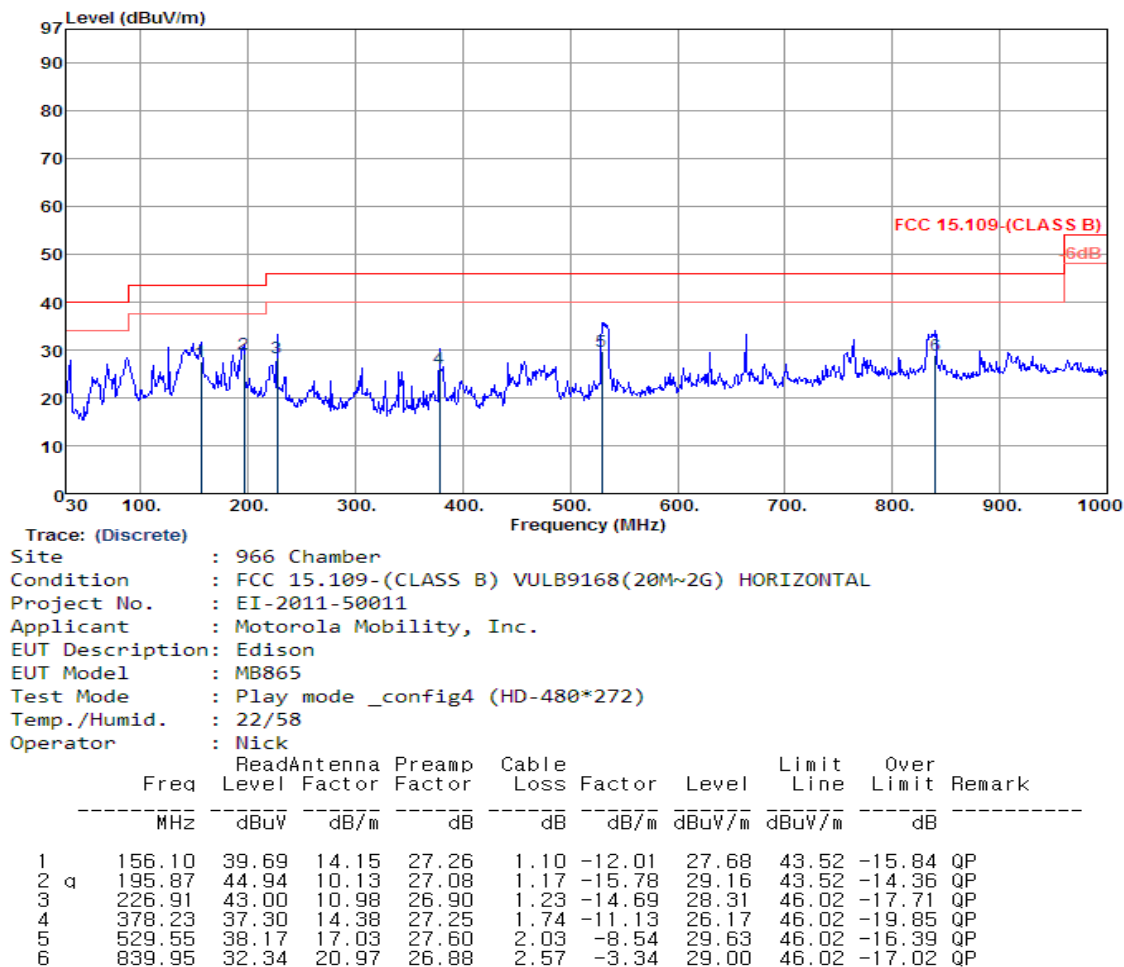
f (886-2) 2298-0488

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Test Mode: Config 4
Frequency Range: 30MHz-1GHz

Test Date : Jun. 13, 2011
Test By: Nick
Resolution: Low (HD-480-272)



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

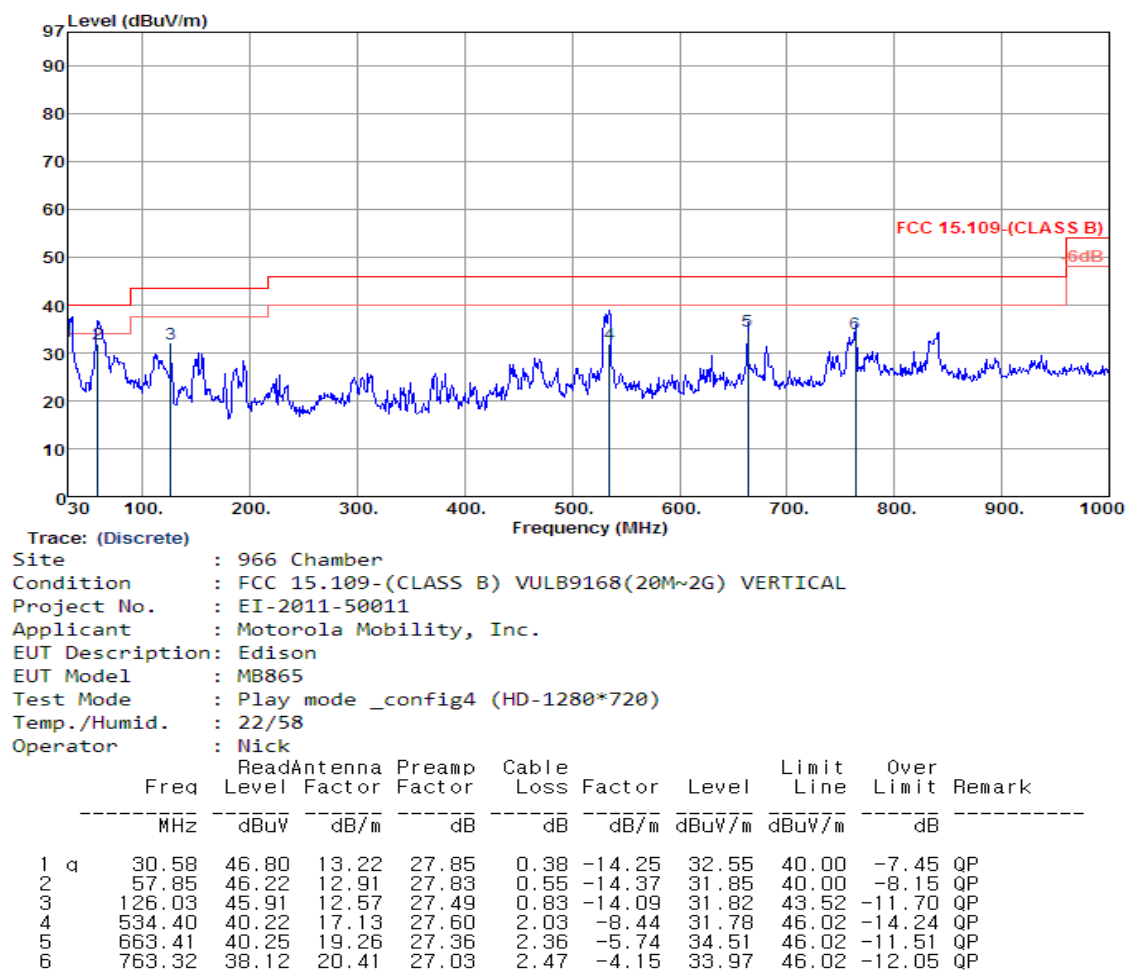
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Test Mode: Config 4
Frequency Range: 30MHz-1GHz

Test Date: Jun. 13, 2011
Test By: Nick
Resolution: Mid (HD-1280-720)



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

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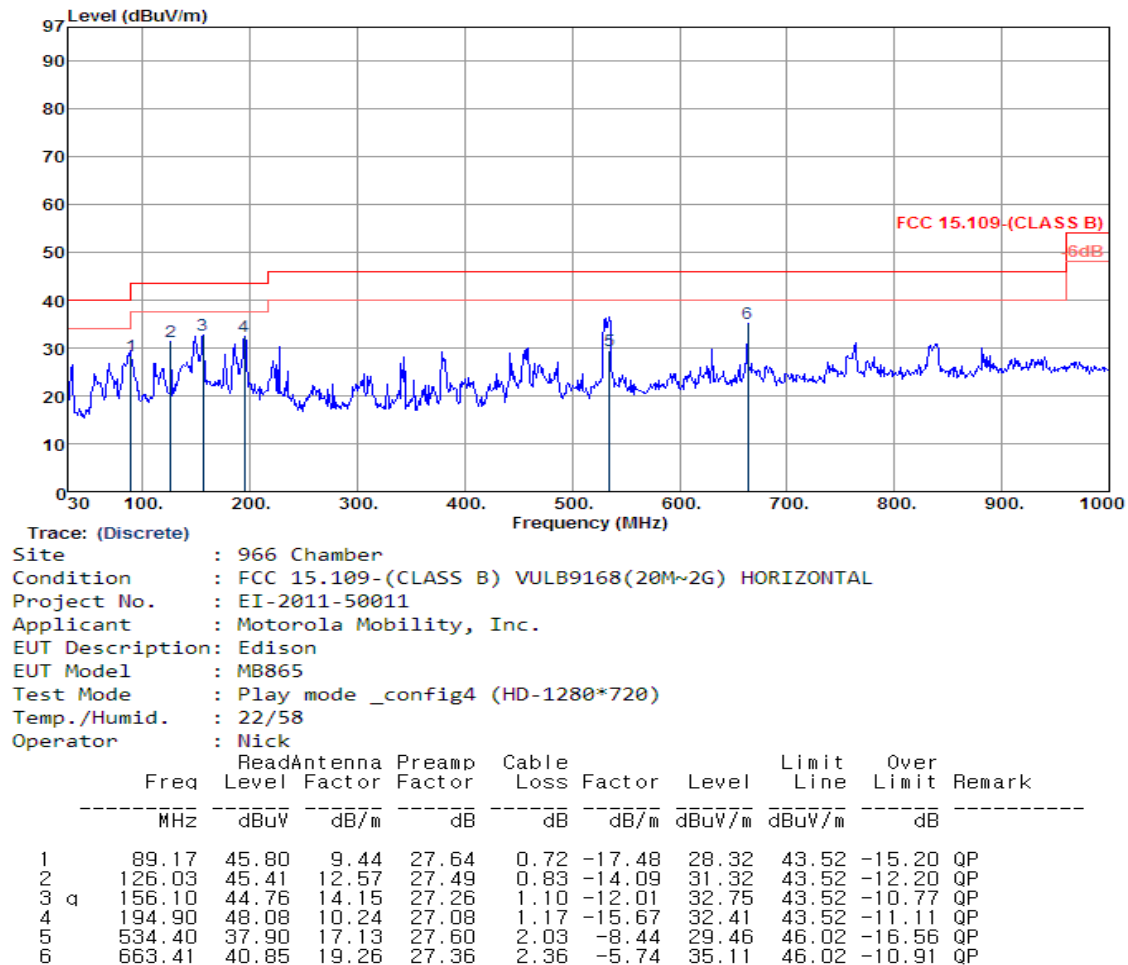
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Test Mode: Config 4
Frequency Range: 30MHz-1GHz

Test Date : Jun. 13, 2011
Test By: Nick
Resolution: Mid (HD-1280-720)



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

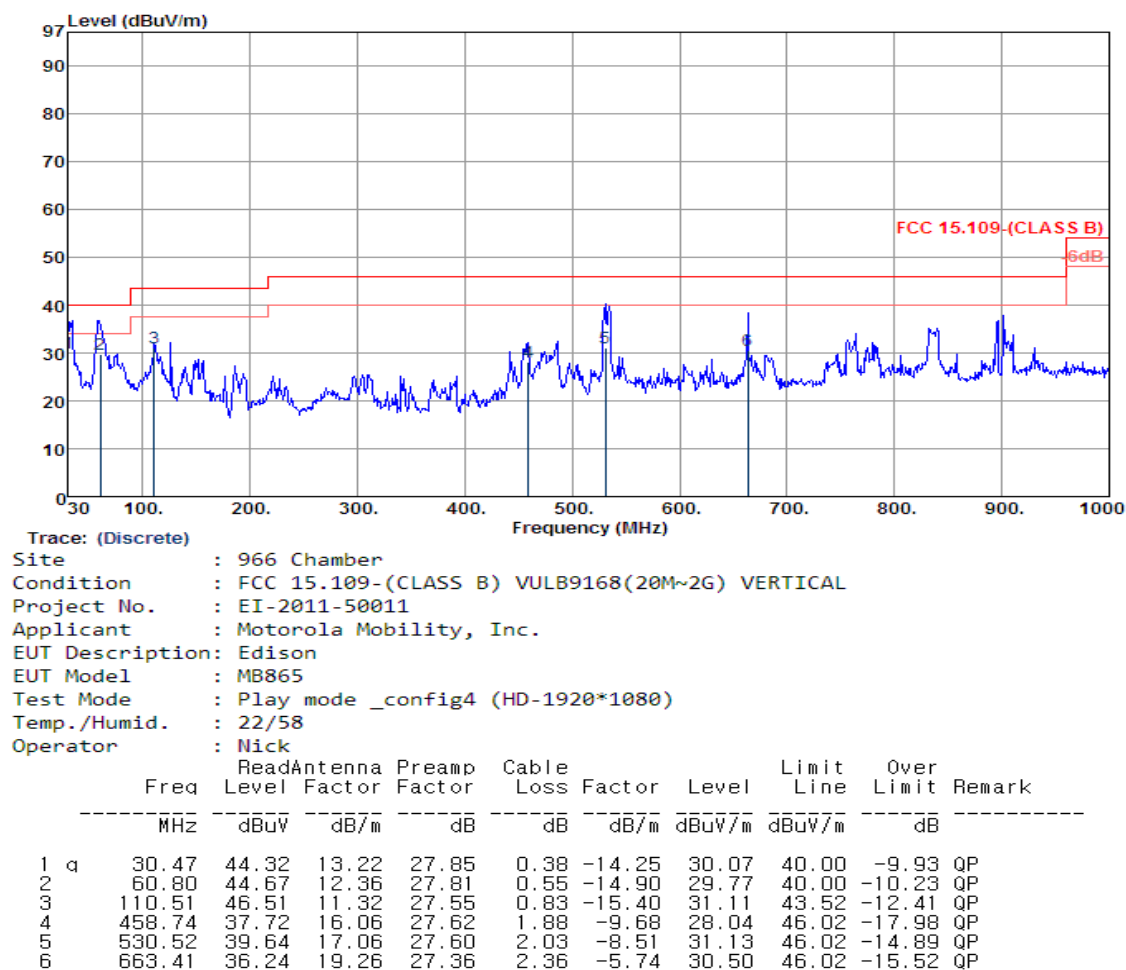
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Test Mode: Config 4
Frequency Range: 30MHz-1GHz

Test Date: Jun. 13, 2011
Test By: Nick
Resolution: High (HD-1920-1080)



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

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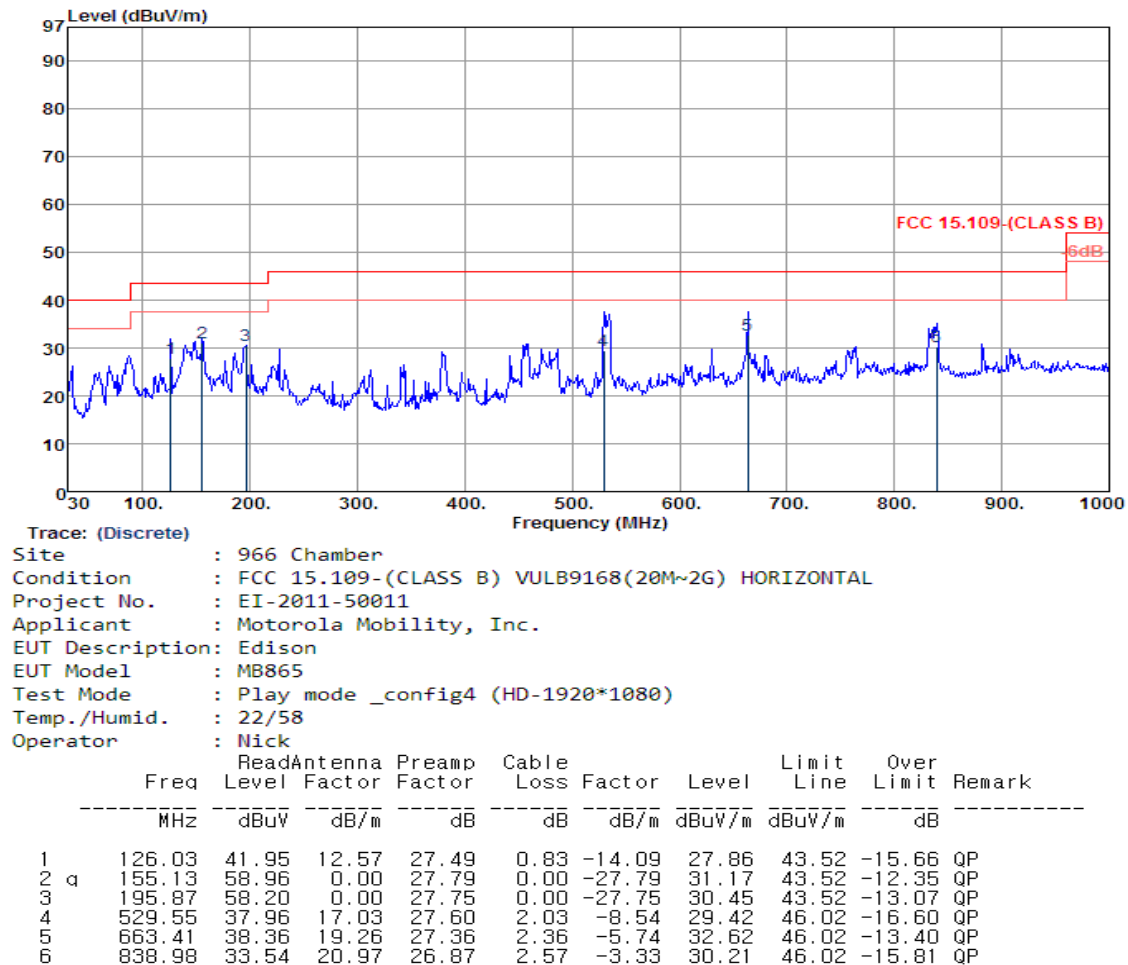
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Test Mode: Config 4
Frequency Range: 30MHz-1GHz

Test Date : Jun. 13, 2011
Test By: Nick
Resolution: High (HD-1920-1080)



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

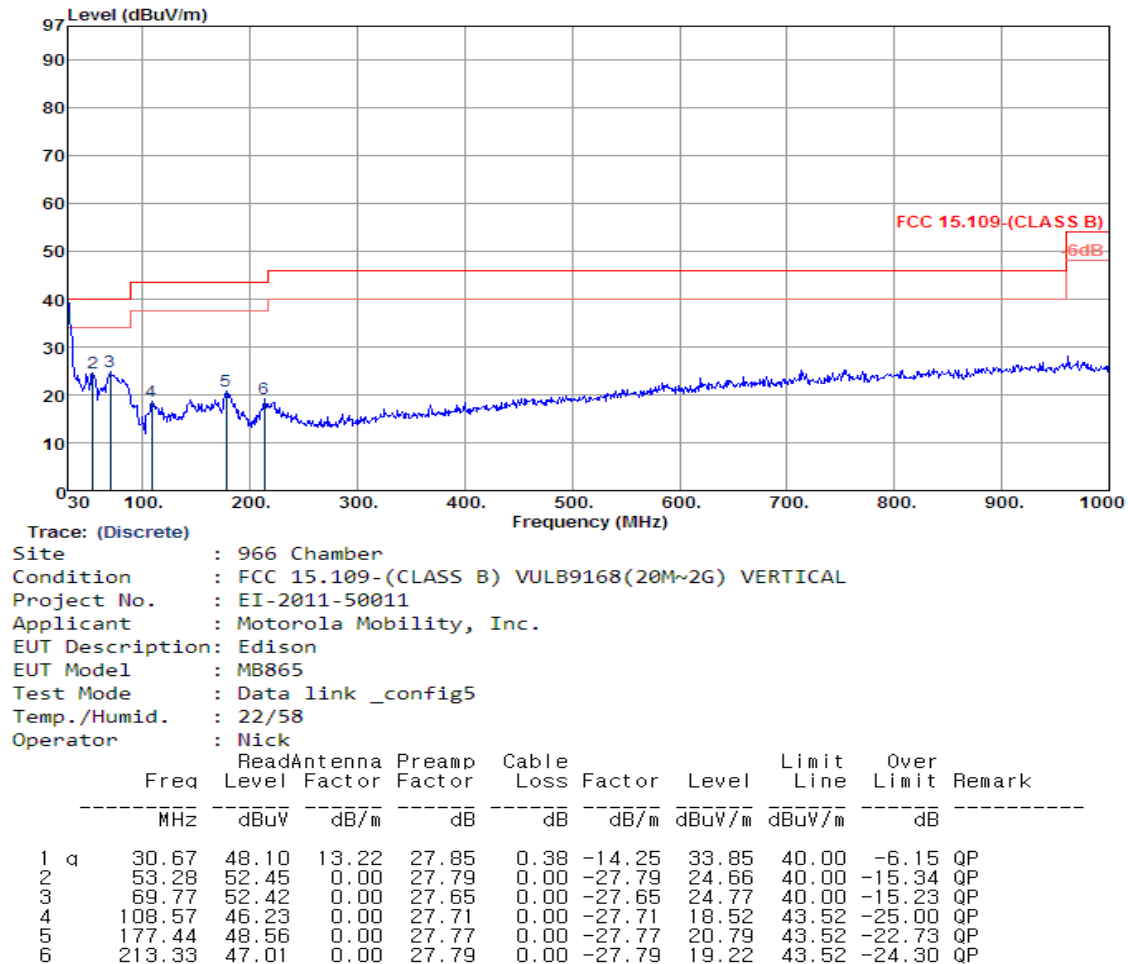
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Test Mode: Config 5
Frequency Range: 30MHz-1GHz

Test Date : Jun. 13, 2011
Test By: Nick



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

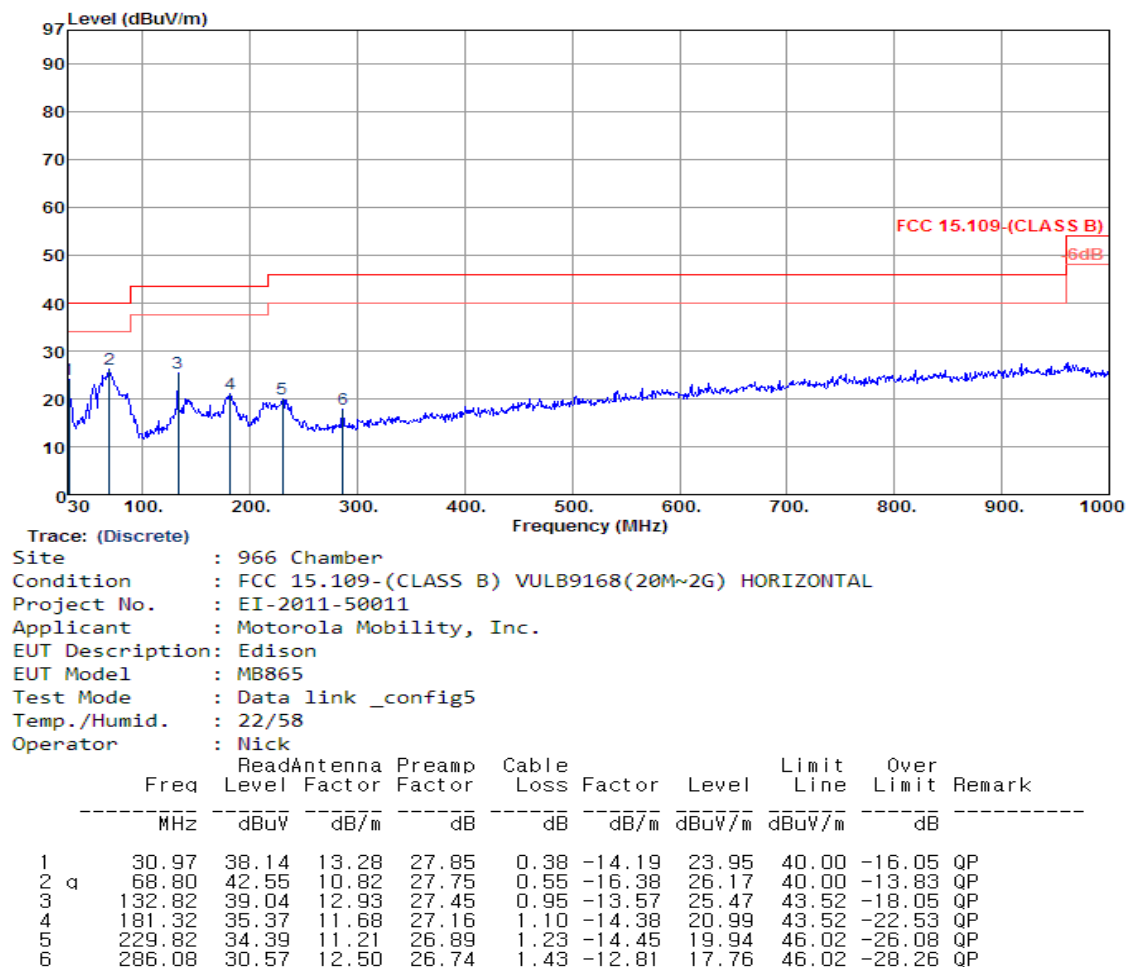
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Test Mode: Config 5
Frequency Range: 30MHz-1GHz

Test Date : Jun. 13, 2011
Test By: Nick



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

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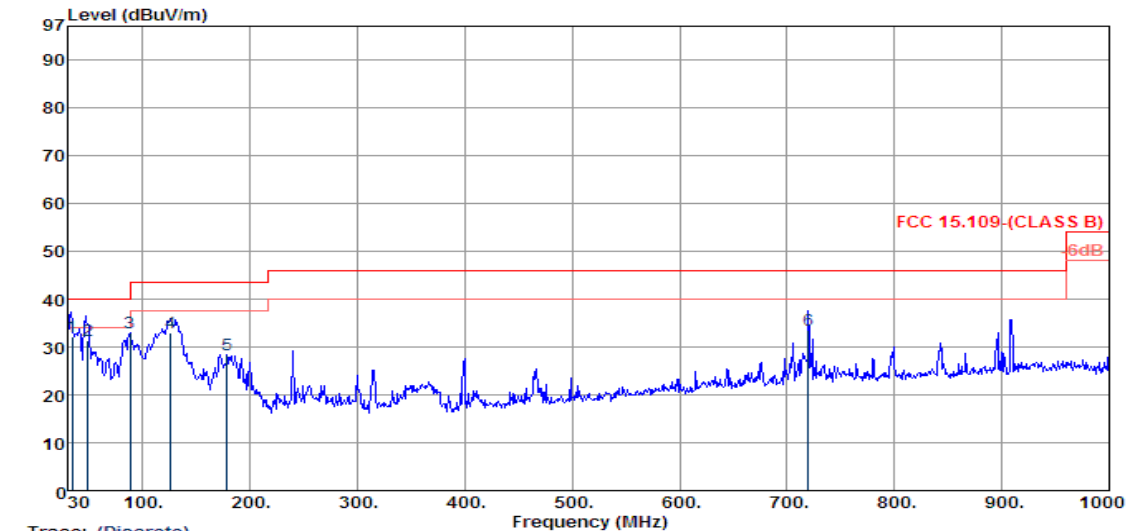
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Test Mode: Config 6
Frequency Range: 30MHz-1GHz

Test Date : Jun. 13, 2011

Test By: Nick



Trace: (Discrete)
Site : 966 Chamber
Condition : FCC 15.109-(CLASS B) VULB9168(20M~2G) VERTICAL
Project No. : EI-2011-50011
Applicant : Motorola Mobility, Inc.
EUT Description: Edison
EUT Model : MB865
Test Mode : Data link _config6
Temp./Humid. : 22/58
Operator : Nick

	Freq	Read	Antenna	Preamp	Cable		Level	Limit	Over	Remark
	MHz	Level	Factor	Factor	Loss	Factor	dBuV/m	Line	Limit	
		dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	
1	34.52	46.20	13.33	27.85	0.38	-14.14	32.06	40.00	-7.94	QP
2	48.56	45.22	13.61	27.84	0.38	-13.85	31.37	40.00	-8.63	QP
3	88.20	50.52	9.41	27.65	0.72	-17.52	33.00	43.52	-10.52	QP
4	126.03	46.94	12.57	27.49	0.83	-14.09	32.85	43.52	-10.67	QP
5	178.41	42.54	11.98	27.17	1.10	-14.09	28.45	43.52	-15.07	QP
6	719.67	38.55	19.89	27.24	2.40	-4.95	33.60	46.02	-12.42	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

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t (886-2) 2299-3279

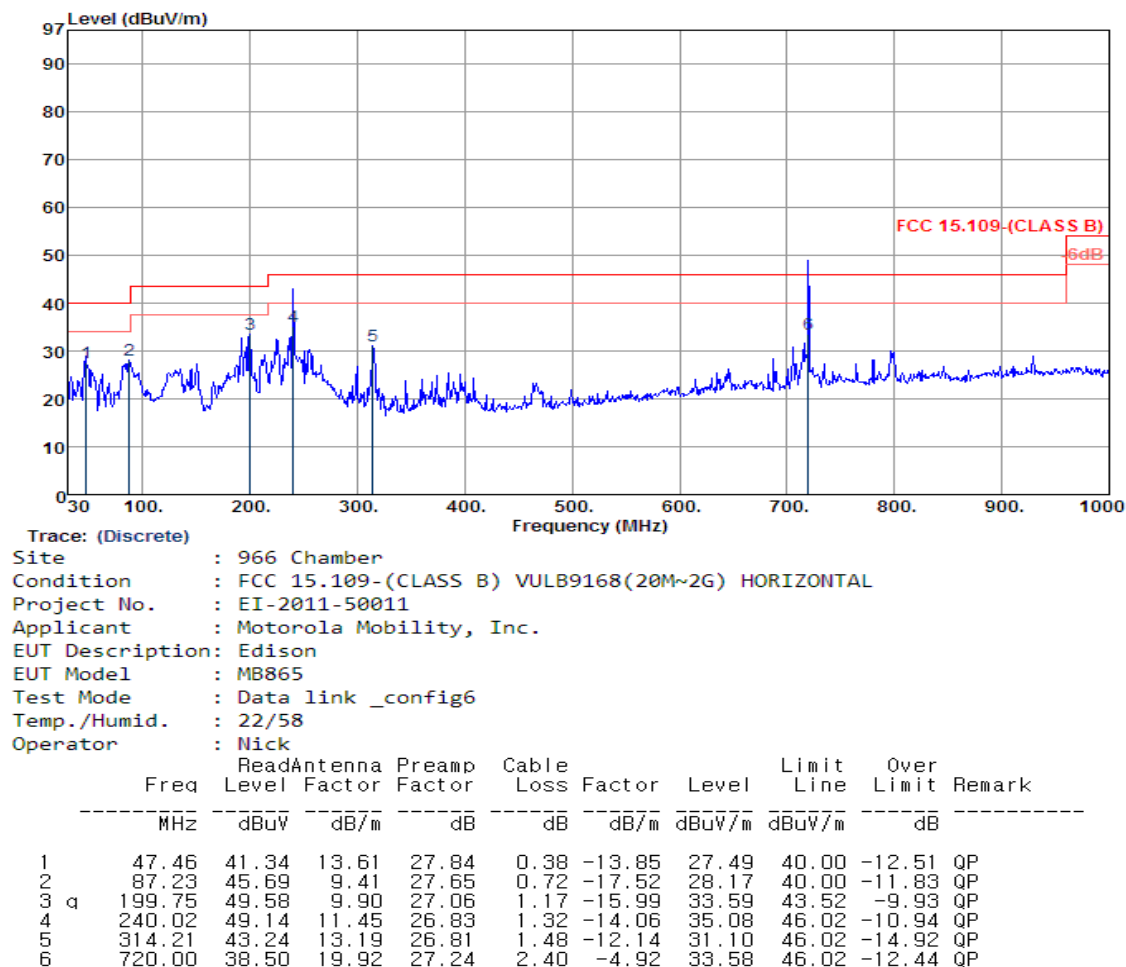
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Test Mode: Config 6
Frequency Range: 30MHz-1GHz

Test Date : Jun. 13, 2011
Test By: Nick



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

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t (886-2) 2299-3279

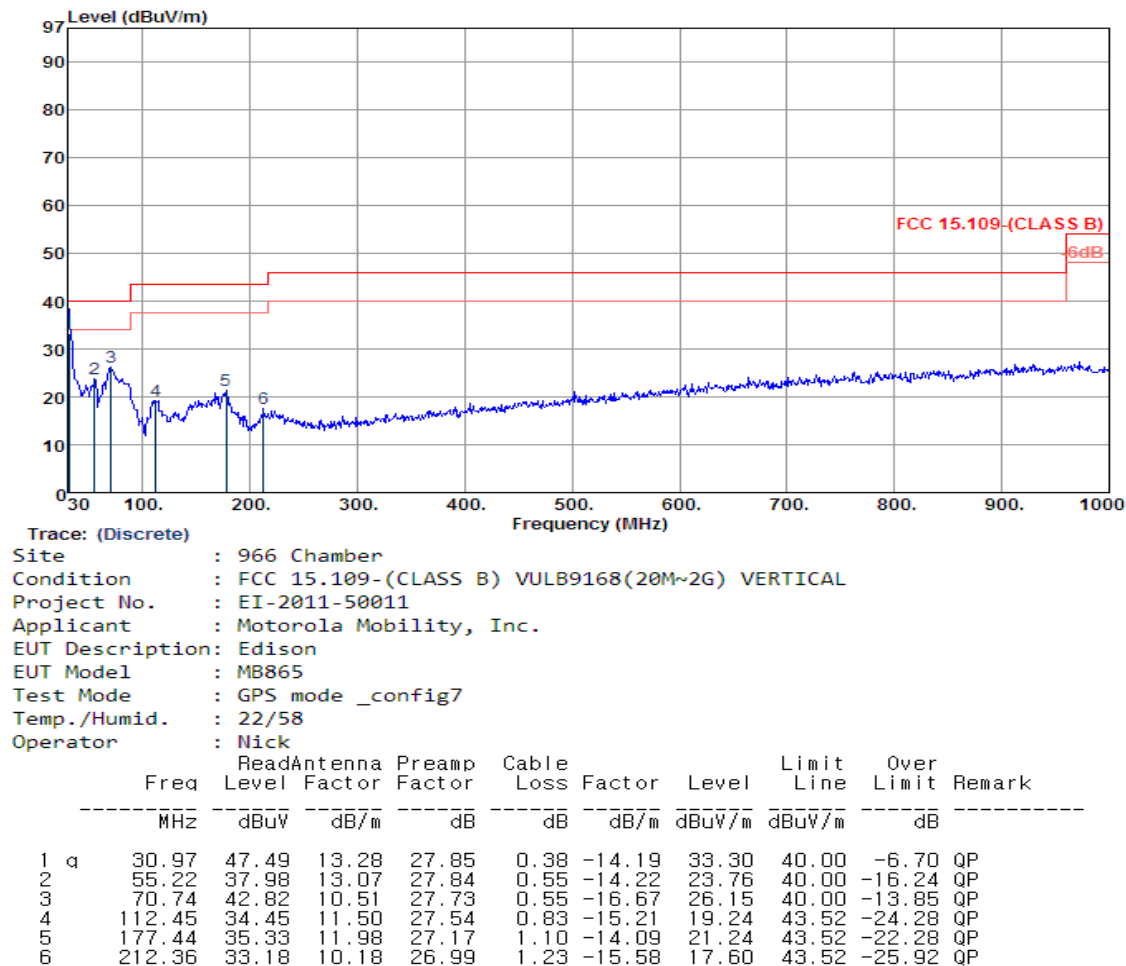
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Test Mode: Config 7
Frequency Range: 30MHz-1GHz

Test Date: Jun. 13, 2011
Test By: Nick



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

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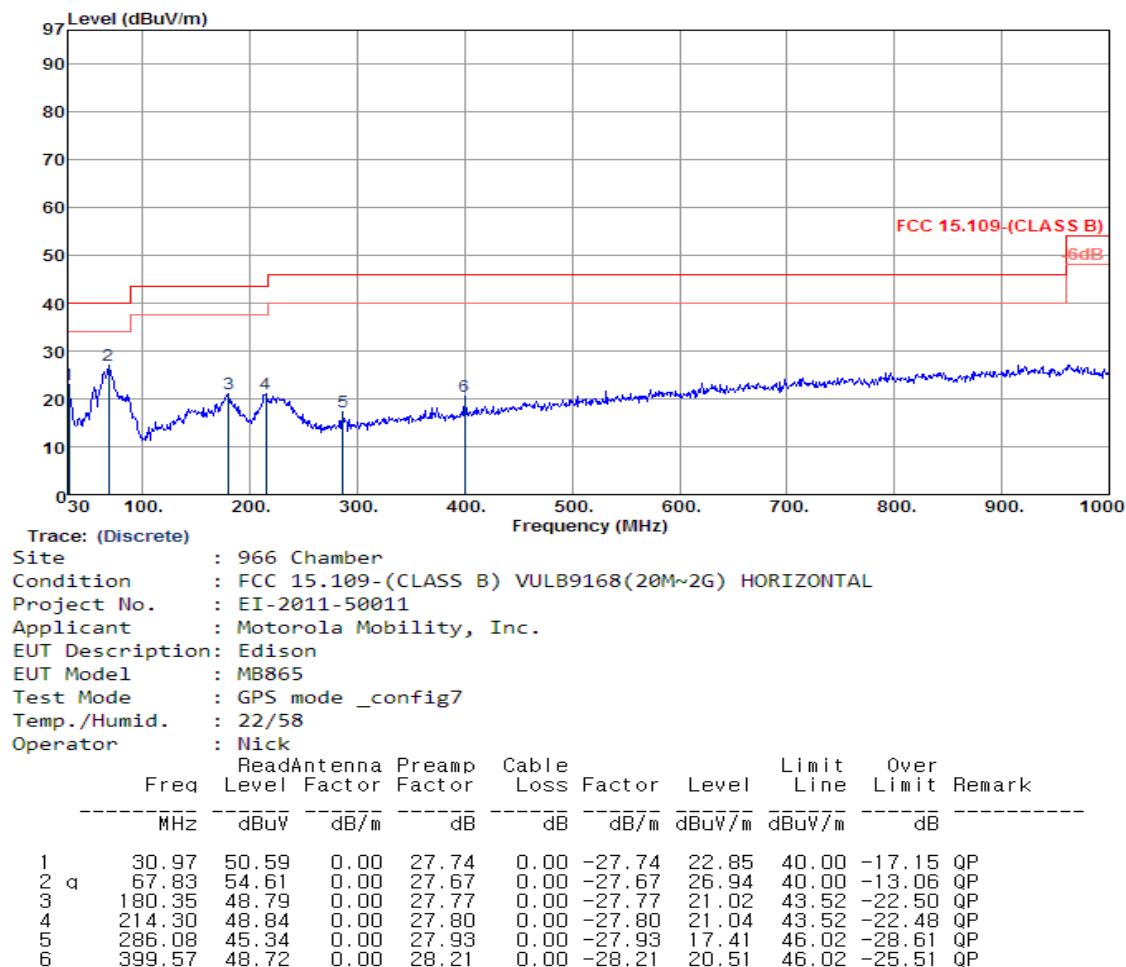
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Test Mode: Config 7
Frequency Range: 30MHz-1GHz

Test Date : Jun. 13, 2011
Test By: Nick



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

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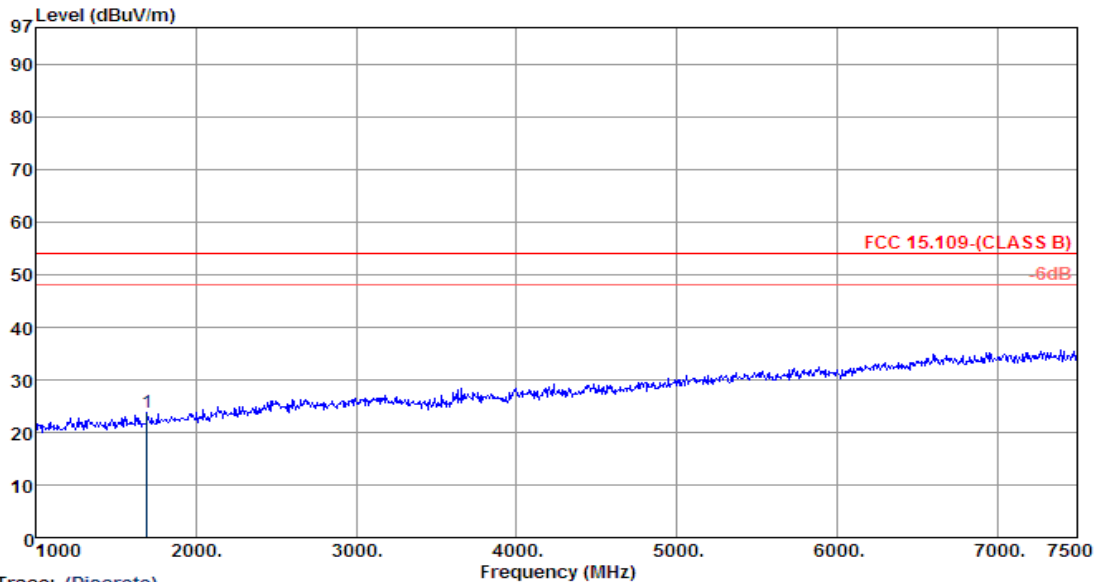
Member of SGS Group

Test Mode: Config 1

Test Date : Jun. 13, 2011

Frequency Range: 1GHz – 7.5GHz

Test By: Nick



Trace: (Discrete)

Site : 966 Chamber
 Condition : FCC 15.109-(CLASS B) BBHA9120D VERTICAL
 Project No. : EI-2011-50011
 Applicant : Motorola Mobility, Inc.
 EUT Description: Edison
 EUT Model : MB865
 Test Mode : Play mode _config1
 Temp./Humid. : 22/58
 Operator : Nick

	Freq	ReadAntenna	Preamp	Cable	Factor	Level	Limit	Over	Remark
	Level	Factor	Factor	Loss	Level	Line	Limit	Limit	Remark
	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	Remark
	MHz	dBuV	dB/m	dB	dB/m	dBuV/m	dBuV/m	dB	Remark
1 p	1695.50	27.92	25.30	33.38	3.94	-4.14	23.78	54.00	-30.22 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

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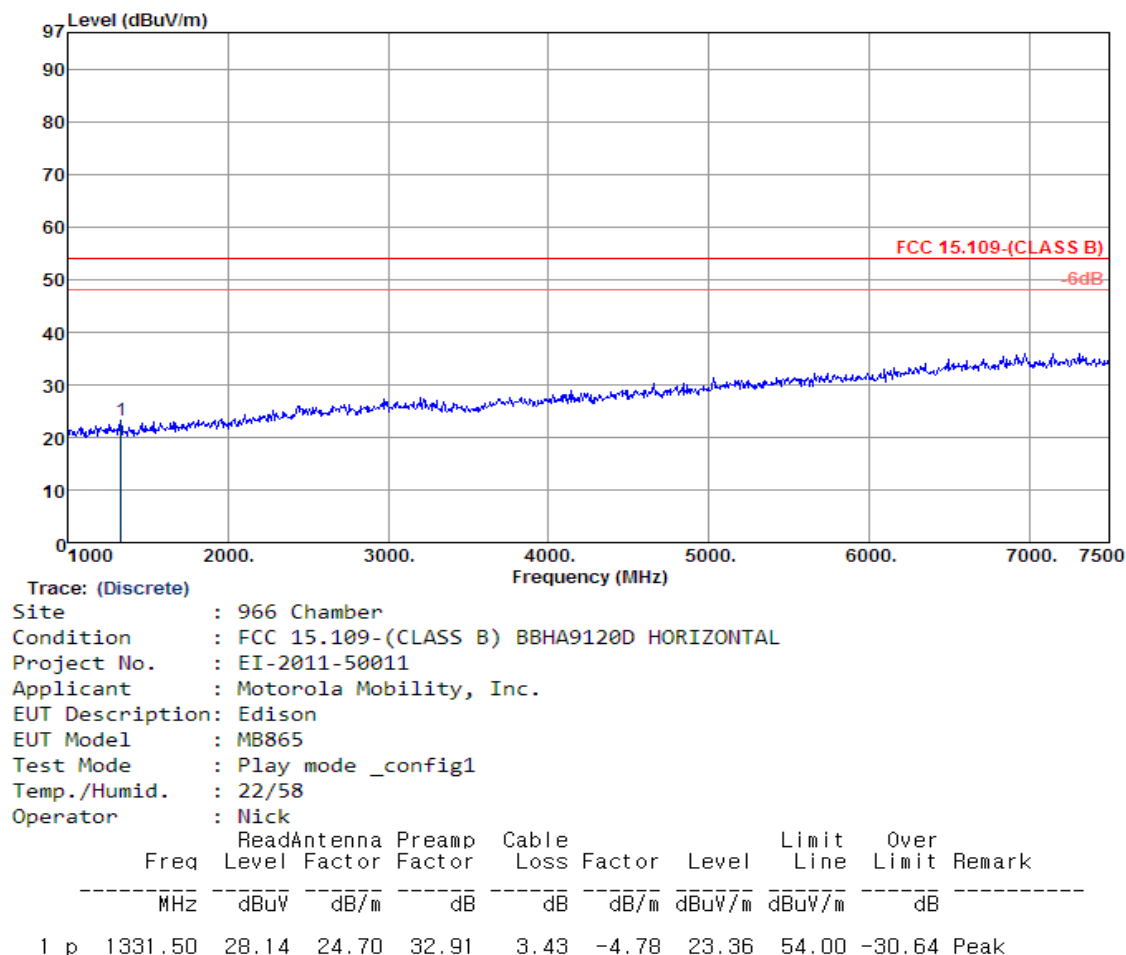
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Test Mode: Config 1
Frequency Range: 1GHz – 7.5GHz

Test Date : Jun. 13, 2011
Test By: Nick



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 7.5GHz was 1MHz

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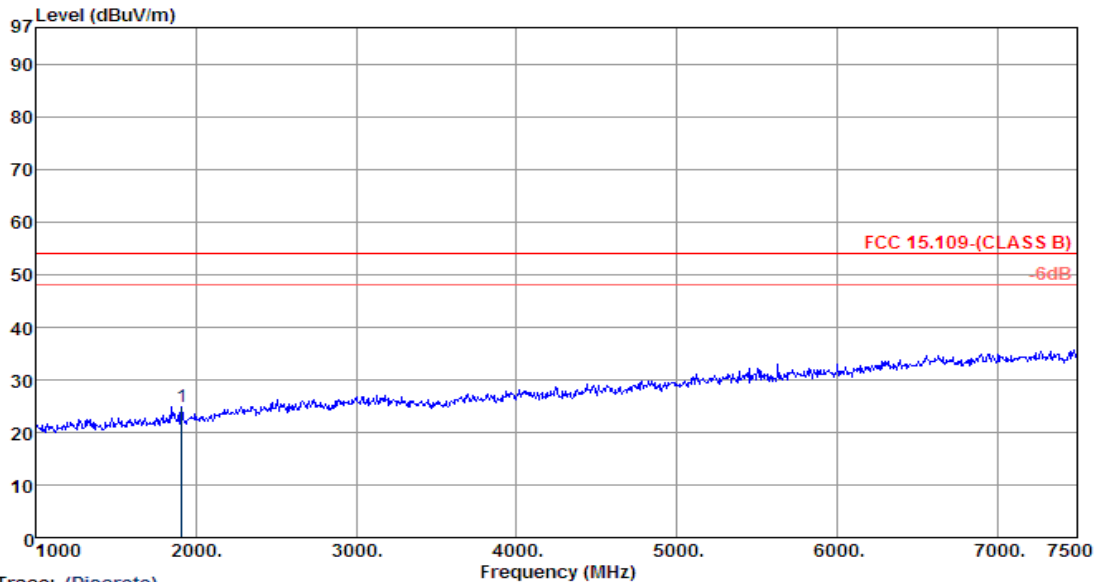
Member of SGS Group

Test Mode: Config 2

Test Date : Jun. 13, 2011

Frequency Range: 1GHz – 7.5GHz

Test By: Nick



Trace: (Discrete)

Site : 966 Chamber
 Condition : FCC 15.109-(CLASS B) BBHA9120D VERTICAL
 Project No. : EI-2011-50011
 Applicant : Motorola Mobility, Inc.
 EUT Description: Edison
 EUT Model : MB865
 Test Mode : FM mode _config2
 Temp./Humid. : 22/58
 Operator : Nick

	Freq	ReadAntenna	Preamp	Cable		Level	Limit	Over	
	Level	Factor	Factor	Loss	Factor		Line	Limit	Remark
	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	
	MHz								
1 p	1910.00	27.87	25.72	32.96	4.14	-3.10	24.77	54.00	-29.23 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 7.5GHz was 1MHz

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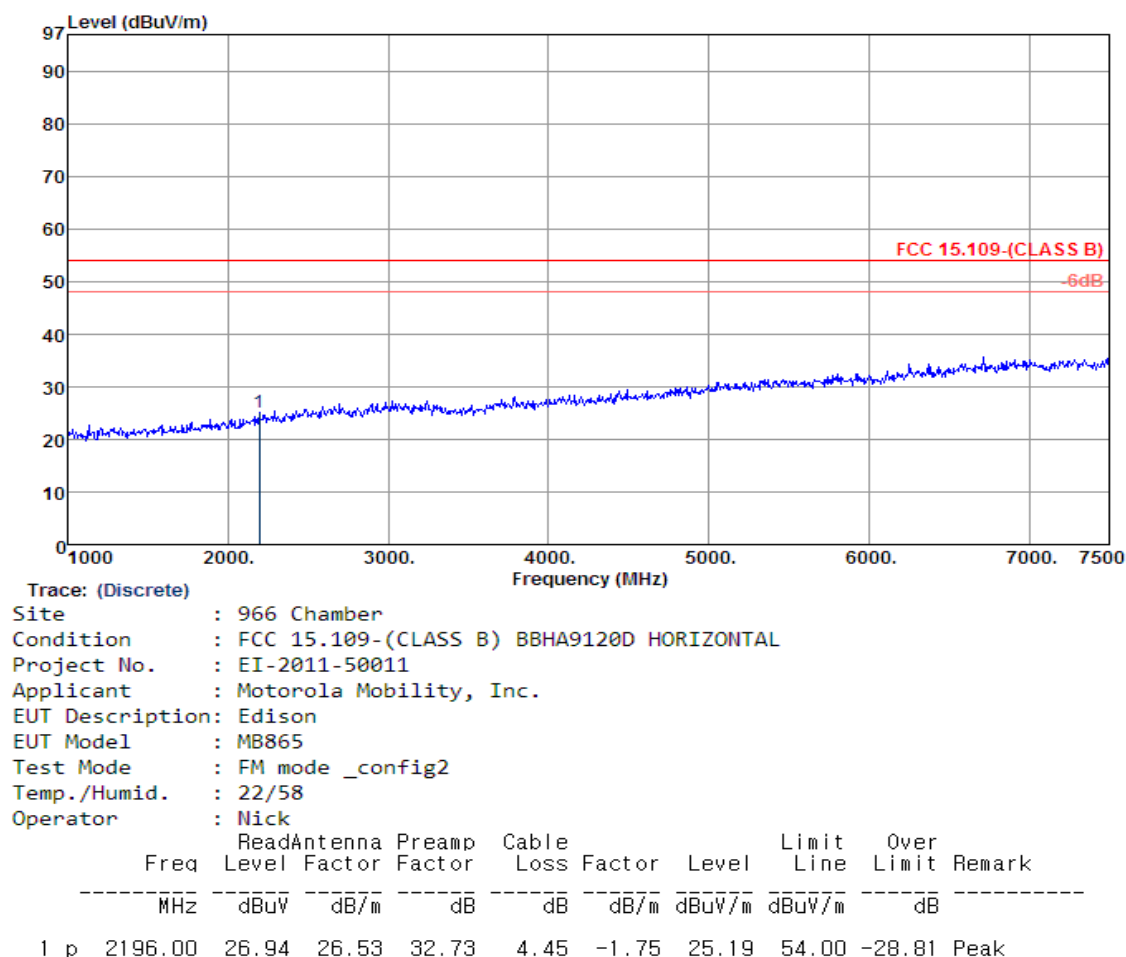
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Test Mode: Config 2
Frequency Range: 1GHz – 7.5GHz

Test Date : Jun. 13, 2011
Test By: Nick



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 7.5GHz was 1MHz

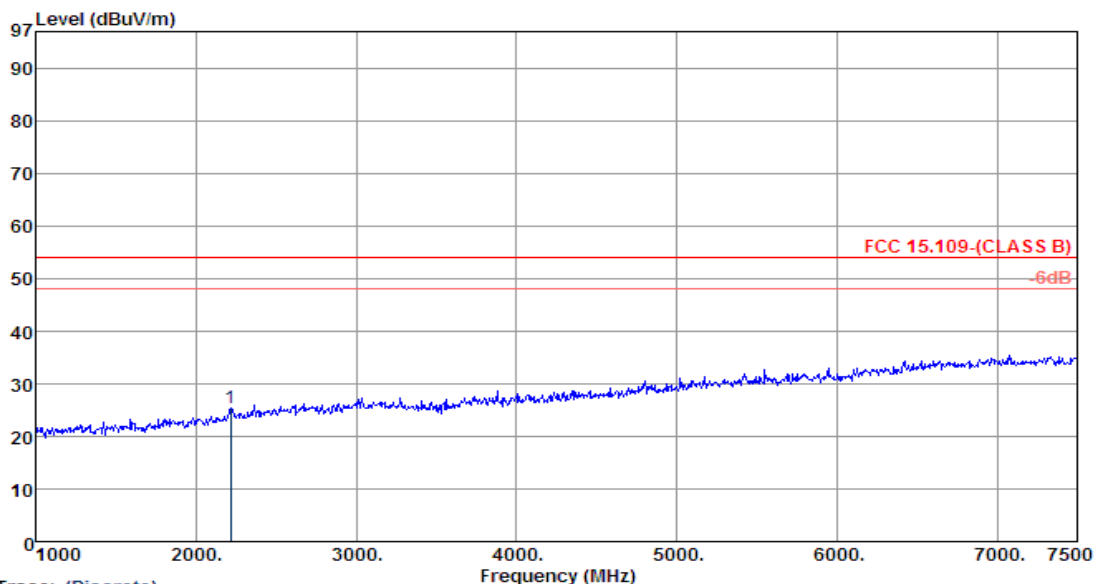
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Test Mode: Config 3
Frequency Range: 1GHz – 7.5GHz

Test Date : Jun. 13, 2011
Test By: Nick



Trace: (Discrete)

Site : 966 Chamber
Condition : FCC 15.109-(CLASS B) BBHA9120D VERTICAL
Project No. : EI-2011-50011
Applicant : Motorola Mobility, Inc.
EUT Description: Edison
EUT Model : MB865
Test Mode : REC mode _config3
Temp./Humid. : 22/58
Operator : Nick

	Freq	ReadAntenna	Preamp	Cable		Level	Limit	Over	
	Level	Factor	Factor	Loss	Factor		Line	Limit	Remark
	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	
	MHz	dBuV	dB/m	dB	dB/m	dBuV/m	dBuV/m	dB	
1 p	2215.50	27.12	26.65	32.81	4.45	-1.71	25.41	54.00	-28.59 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 7.5GHz was 1MHz

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t (886-2) 2299-3279

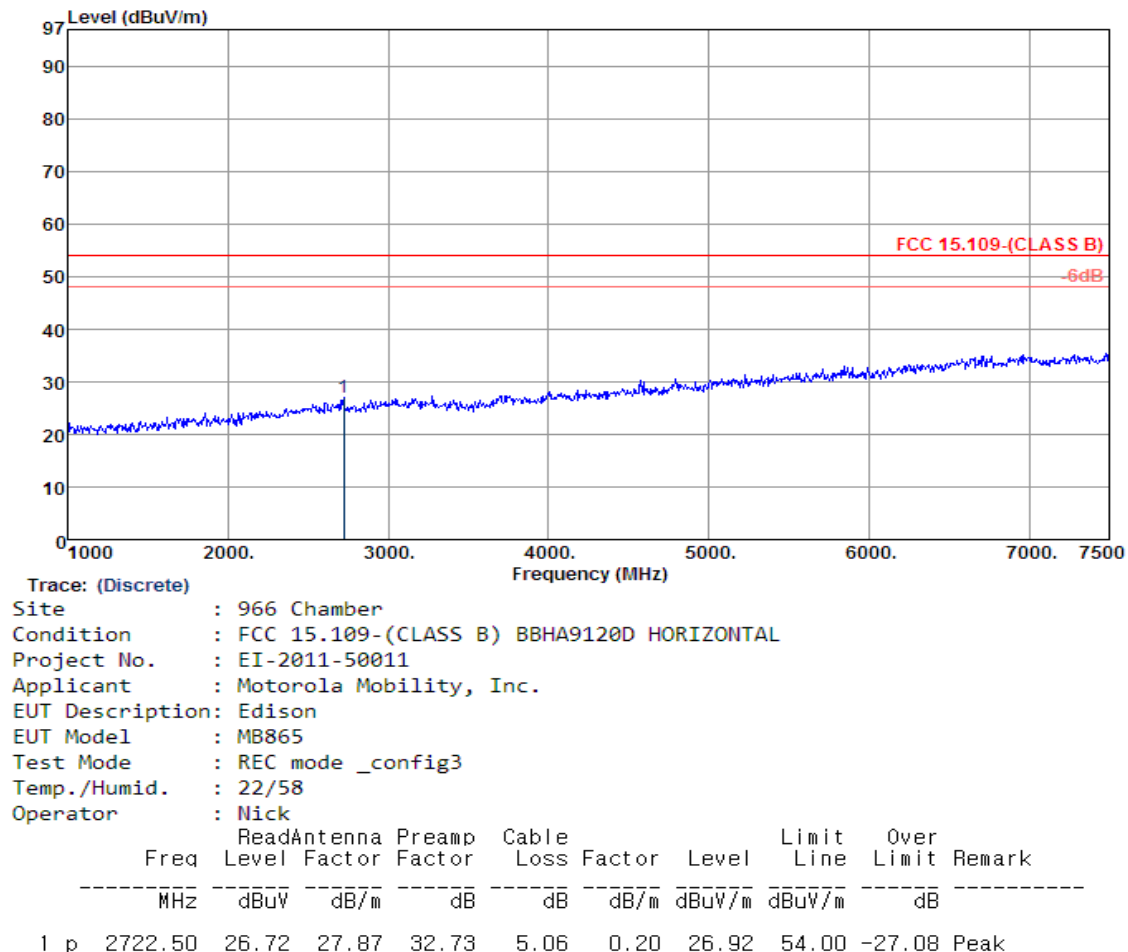
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Test Mode: Config 3
Frequency Range: 1GHz – 7.5GHz

Test Date : Jun. 13, 2011
Test By: Nick



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 7.5GHz was 1MHz

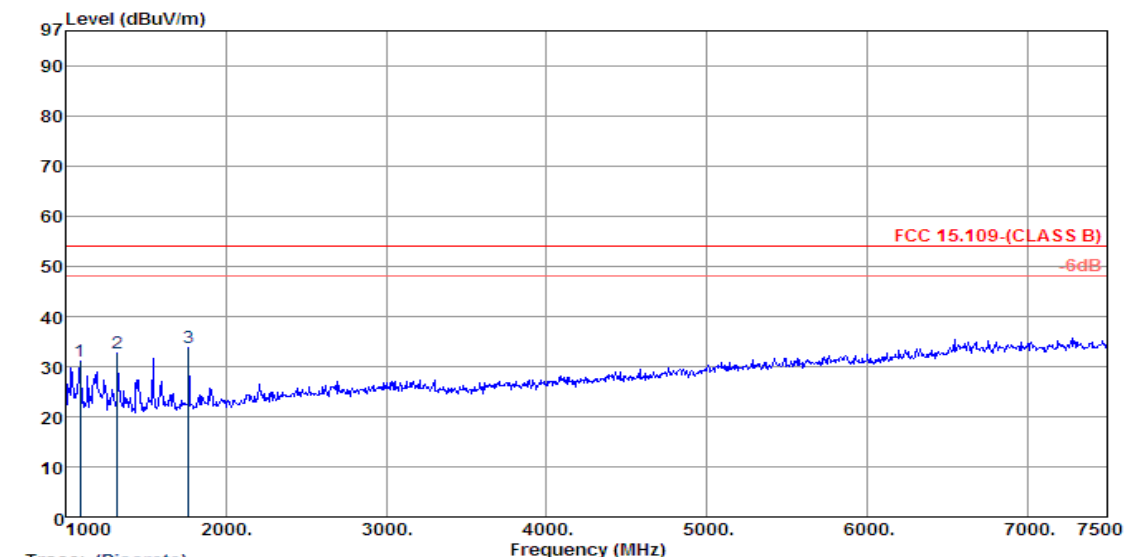
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Test Mode: Config 4
Frequency Range: 1GHz – 7.5GHz
Worst Case:

Test Date : Jun. 13, 2011
Test By: Nick
Resolution: High (HD-1920-1080)



Trace: (Discrete)

Site : 966 Chamber
Condition : FCC 15.109-(CLASS B) BBHA9120D VERTICAL
Project No. : EI-2011-50011
Applicant : Motorola Mobility, Inc.
EUT Description: Edison
EUT Model : MB865
Test Mode : Play mode _config4 (HD-1920*1080)
Temp./Humid. : 22/58
Operator : Nick

	Freq	Read	Antenna	Preamp	Cable		Level	Limit	Over	
	MHz	Level	Factor	Factor	Loss	Factor	dBuV/m	dBuV/m	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	
1	1091.00	37.04	24.36	33.36	3.13	-5.87	31.17	54.00	-22.83	Peak
2	1325.00	37.44	24.68	32.91	3.43	-4.80	32.64	54.00	-21.36	Peak
3 p	1767.00	37.49	25.43	33.06	3.99	-3.64	33.85	54.00	-20.15	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 7.5GHz was 1MHz

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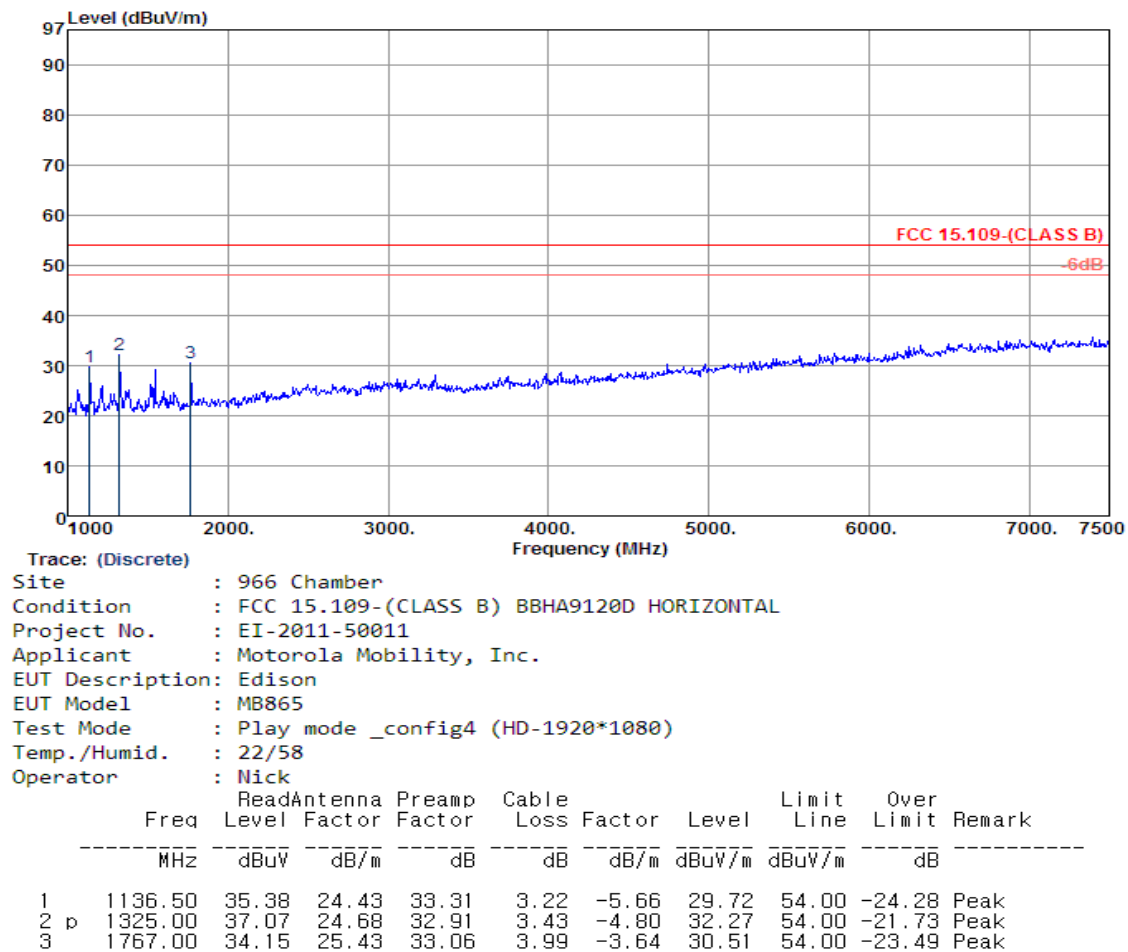
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Test Mode: Config 4
Frequency Range: 1GHz – 7.5GHz
Worst Case:

Test Date : Jun. 13, 2011
Test By: Nick
Resolution: High (HD-1920-1080)



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 7.5GHz was 1MHz

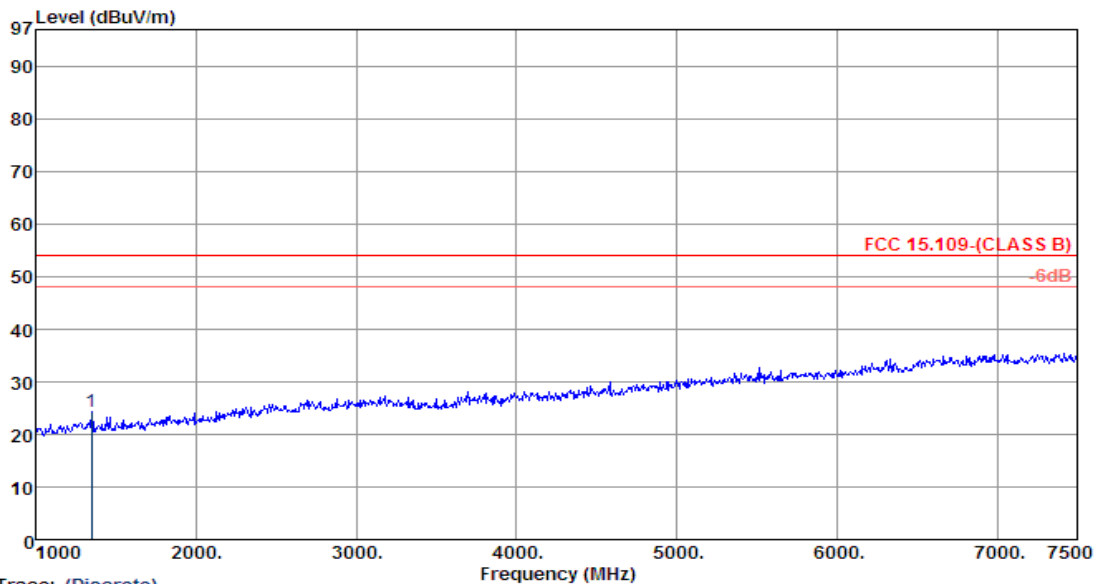
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Test Mode: Config 5
Frequency Range: 1GHz – 7.5GHz

Test Date : Jun. 13, 2011
Test By: Nick



Trace: (Discrete)

Site : 966 Chamber
Condition : FCC 15.109-(CLASS B) BBHA9120D VERTICAL
Project No. : EI-2011-50011
Applicant : Motorola Mobility, Inc.
EUT Description: Edison
EUT Model : MB865
Test Mode : Data link _config5
Temp./Humid. : 22/58
Operator : Nick

	Freq	ReadAntenna	Preamp	Cable		Level	Limit	Over	
	Level	Factor	Factor	Loss	Factor	dBuV/m	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB/m	dBuV/m	dBuV/m	dB	
1 p	1351.00	29.27	24.72	33.05	3.46	-4.87	24.40	54.00	-29.60 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 7.5GHz was 1MHz

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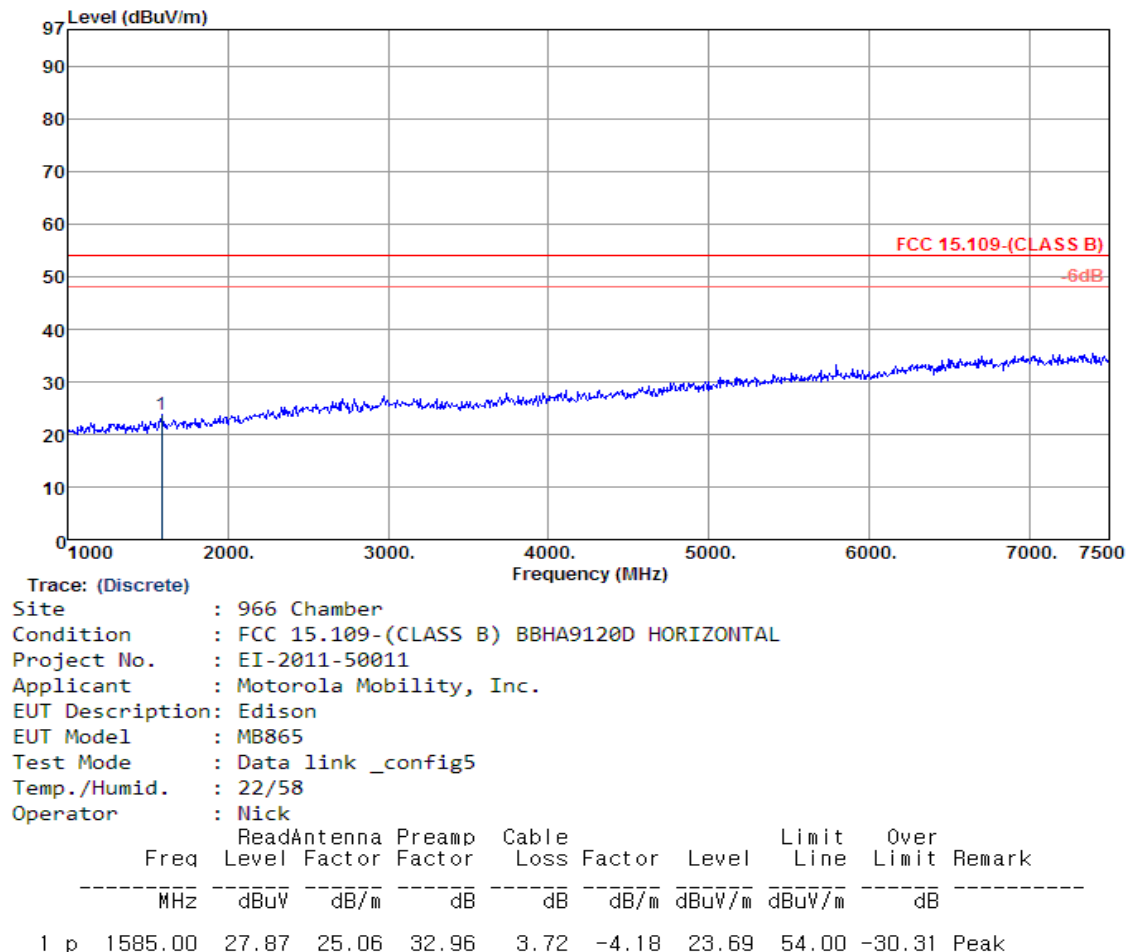
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Test Mode: Config 5
Frequency Range: 1GHz – 7.5GHz

Test Date : Jun. 13, 2011
Test By: Nick



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 7.5GHz was 1MHz

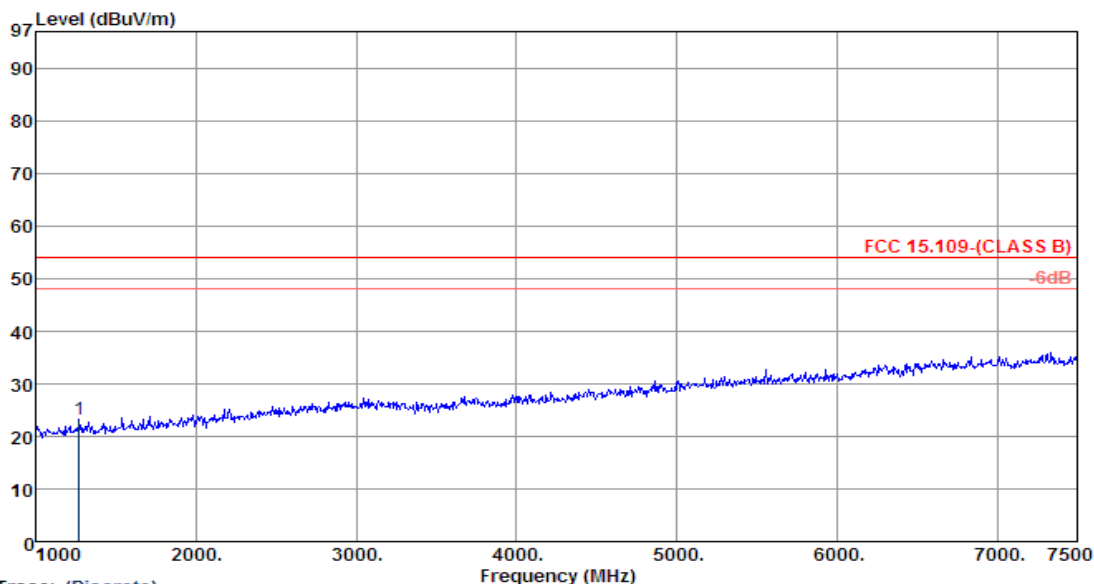
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Test Mode: Config 6
Frequency Range: 1GHz – 7.5GHz

Test Date : Jun. 13, 2011
Test By: Nick



Trace: (Discrete)

Site : 966 Chamber
Condition : FCC 15.109-(CLASS B) BBHA9120D VERTICAL
Project No. : EI-2011-50011
Applicant : Motorola Mobility, Inc.
EUT Description: Edison
EUT Model : MB865
Test Mode : Data link _config6
Temp./Humid. : 22/58
Operator : Nick

	Freq	ReadAntenna	Preamp	Cable		Level	Limit	Over	
	Level	Factor	Factor	Loss	Factor		Line	Limit	Remark
	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1 p	1273.00	28.06	24.61	32.87	3.37	-4.89	23.17	54.00	-30.83 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 7.5GHz was 1MHz

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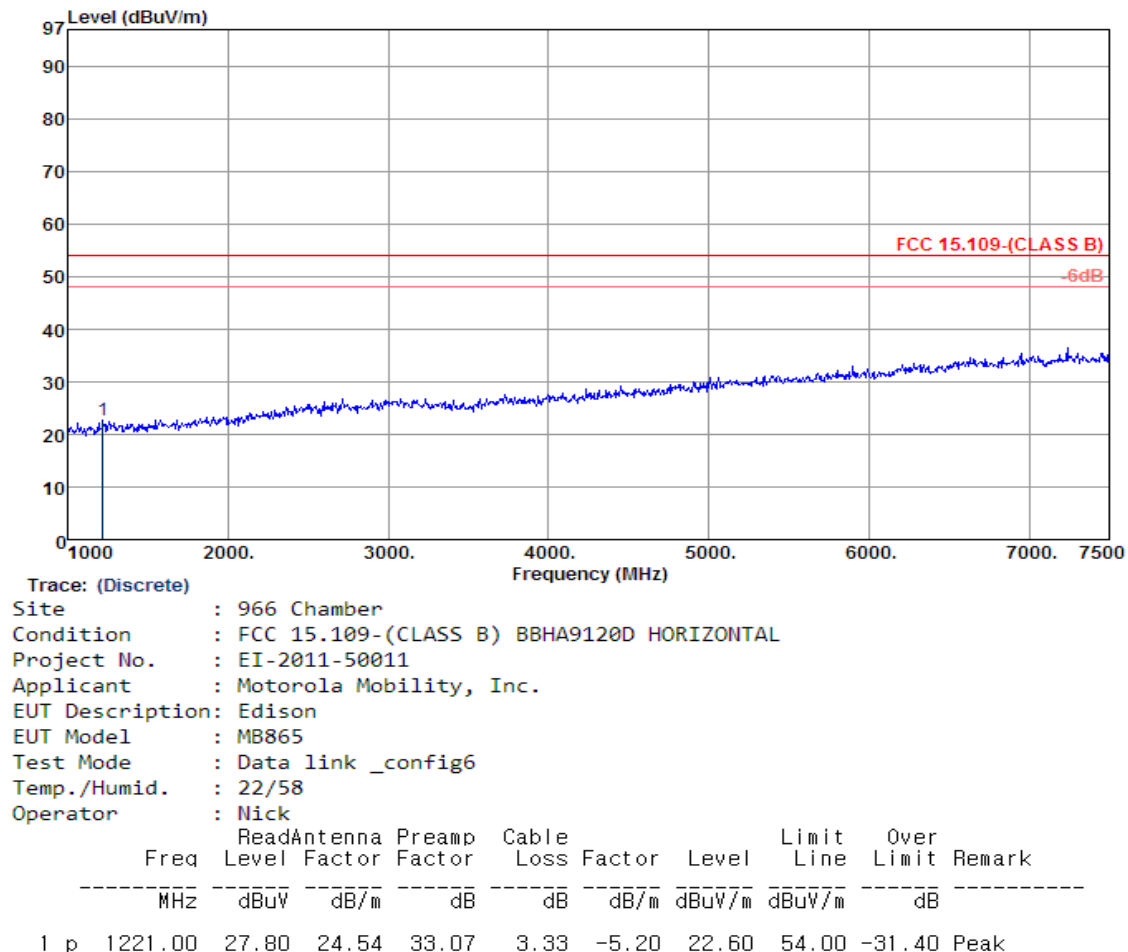
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www.tw.sgs.com

Member of SGS Group

Test Mode: Config 6
Frequency Range: 1GHz – 7.5GHz

Test Date : Jun. 13, 2011
Test By: Nick



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 7.5GHz was 1MHz

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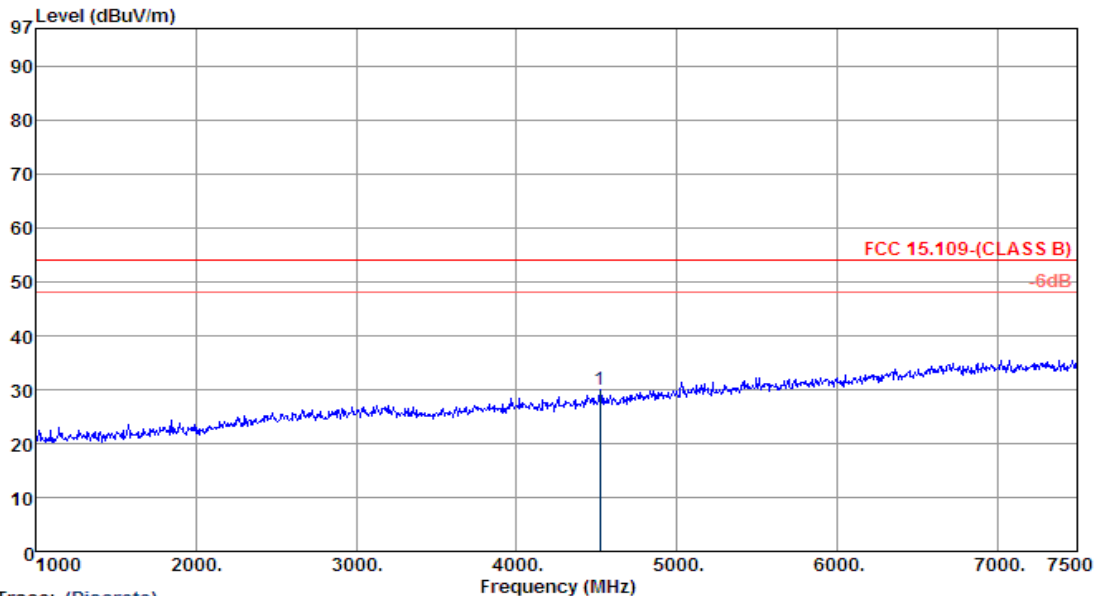
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Test Mode: Config 7

Test Date: Jun. 13, 2011

Frequency Range: 1GHz – 7.5GHz

Test By: Nick



Trace: (Discrete)

Site : 966 Chamber
 Condition : FCC 15.109-(CLASS B) BBHA9120D HORIZONTAL
 Project No. : EI-2011-50011
 Applicant : Motorola Mobility, Inc.
 EUT Description: Edison
 EUT Model : MB865
 Test Mode : GPS mode _config7
 Temp./Humid. : 22/58
 Operator : Nick

	Freq	Read	Antenna	Preamp	Cable		Limit	Over	
	Level	Factor	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB
1	4523.00	25.69	30.65	32.94	6.70	4.41	30.10	54.00	-23.90 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 7.5GHz was 1MHz

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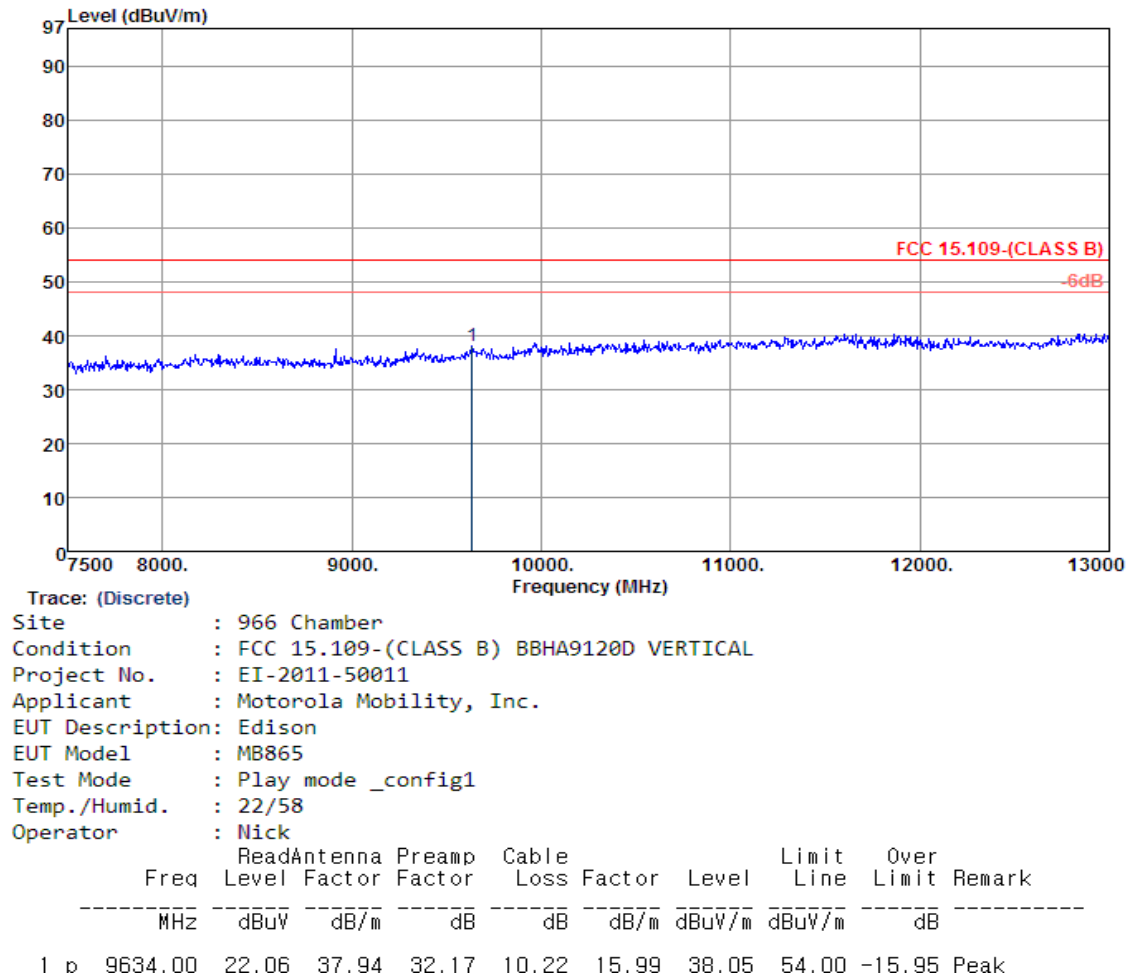
Member of SGS Group

Test Mode: Config 1

Test Date : Jun. 13, 2011

Frequency Range: 7.5GHz – 13GHz

Test By: Nick



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 7.5GHz to 13GHz was 1MHz

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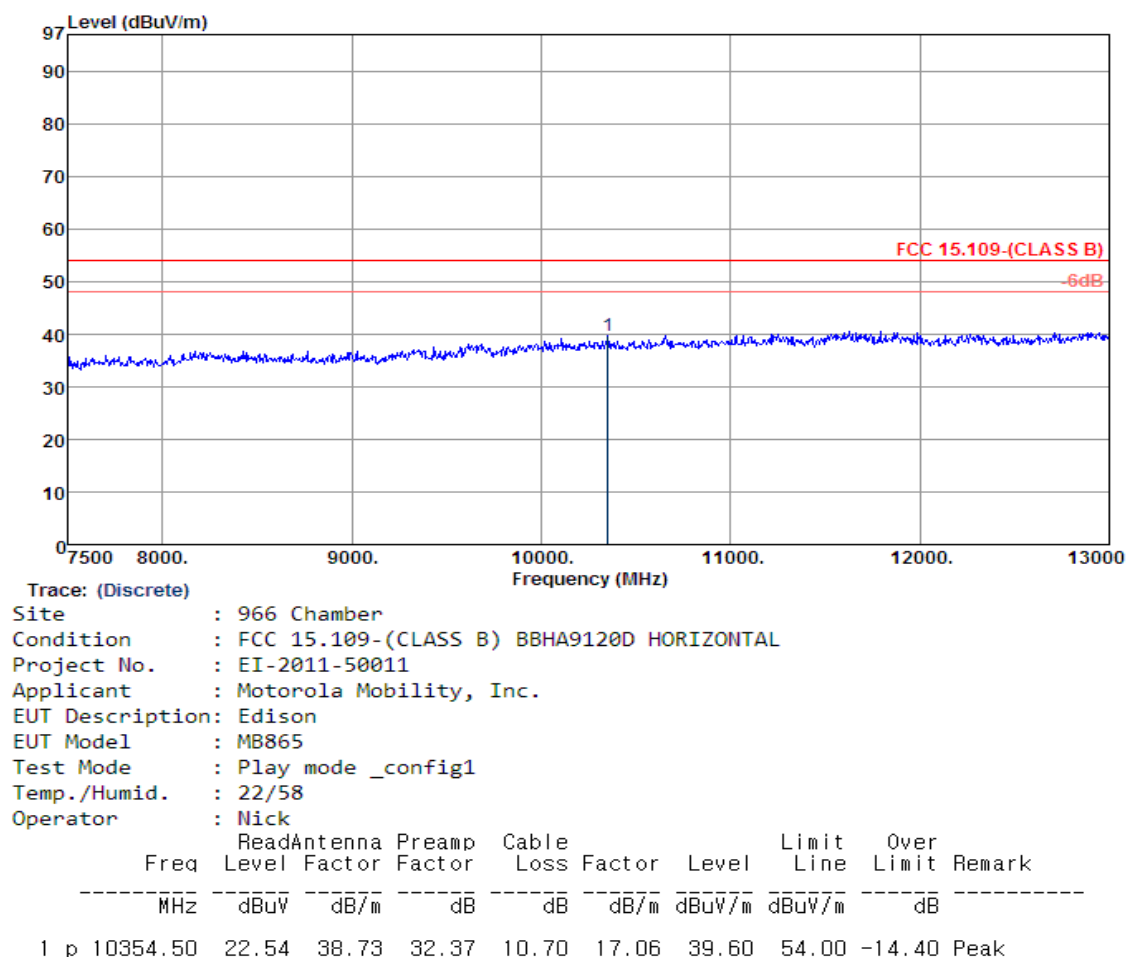
Member of SGS Group

Test Mode: Config 1

Test Date: Jun. 13, 2011

Frequency Range: 7.5GHz – 13GHz

Test By: Nick



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 7.5GHz to 13GHz was 1MHz

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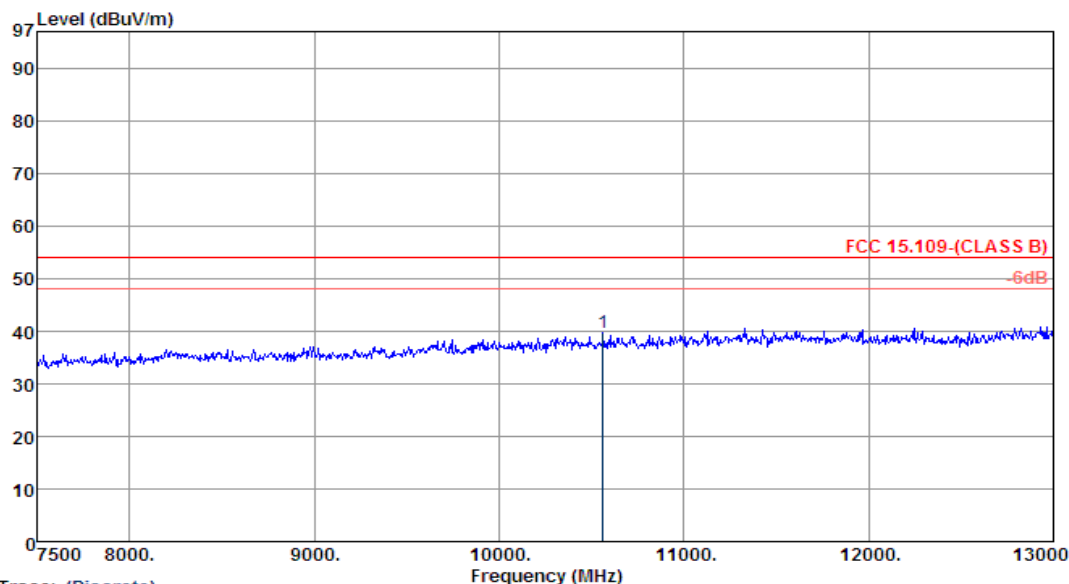
Member of SGS Group

Test Mode: Config 2

Test Date : Jun. 13, 2011

Frequency Range: 7.5GHz – 13GHz

Test By: Nick



Trace: (Discrete)

Site : 966 Chamber
 Condition : FCC 15.109-(CLASS B) BBHA9120D VERTICAL
 Project No. : EI-2011-50011
 Applicant : Motorola Mobility, Inc.
 EUT Description: Edison
 EUT Model : MB865
 Test Mode : FM mode _config2
 Temp./Humid. : 22/58
 Operator : Nick

	Freq	Read Level	Antenna Factor	Preamplifier Factor	Cable Loss	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	
1 p	10563.50	22.39	39.06	32.51	10.84	17.39	39.78	54.00	-14.22	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 7.5GHz to 13GHz was 1MHz

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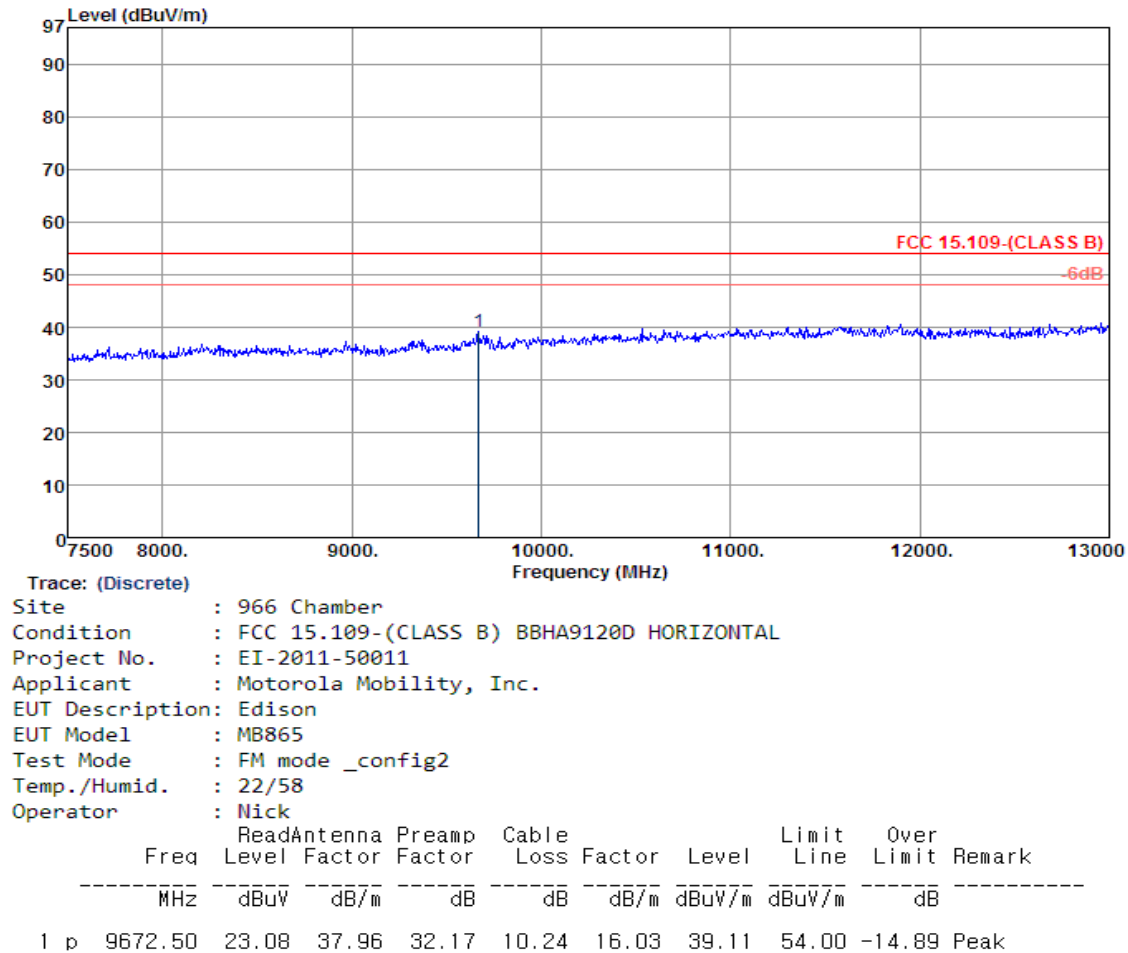
Member of SGS Group

Test Mode: Config 2

Test Date : Jun. 13, 2011

Frequency Range: 7.5GHz – 13GHz

Test By: Nick



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 7.5GHz to 13GHz was 1MHz

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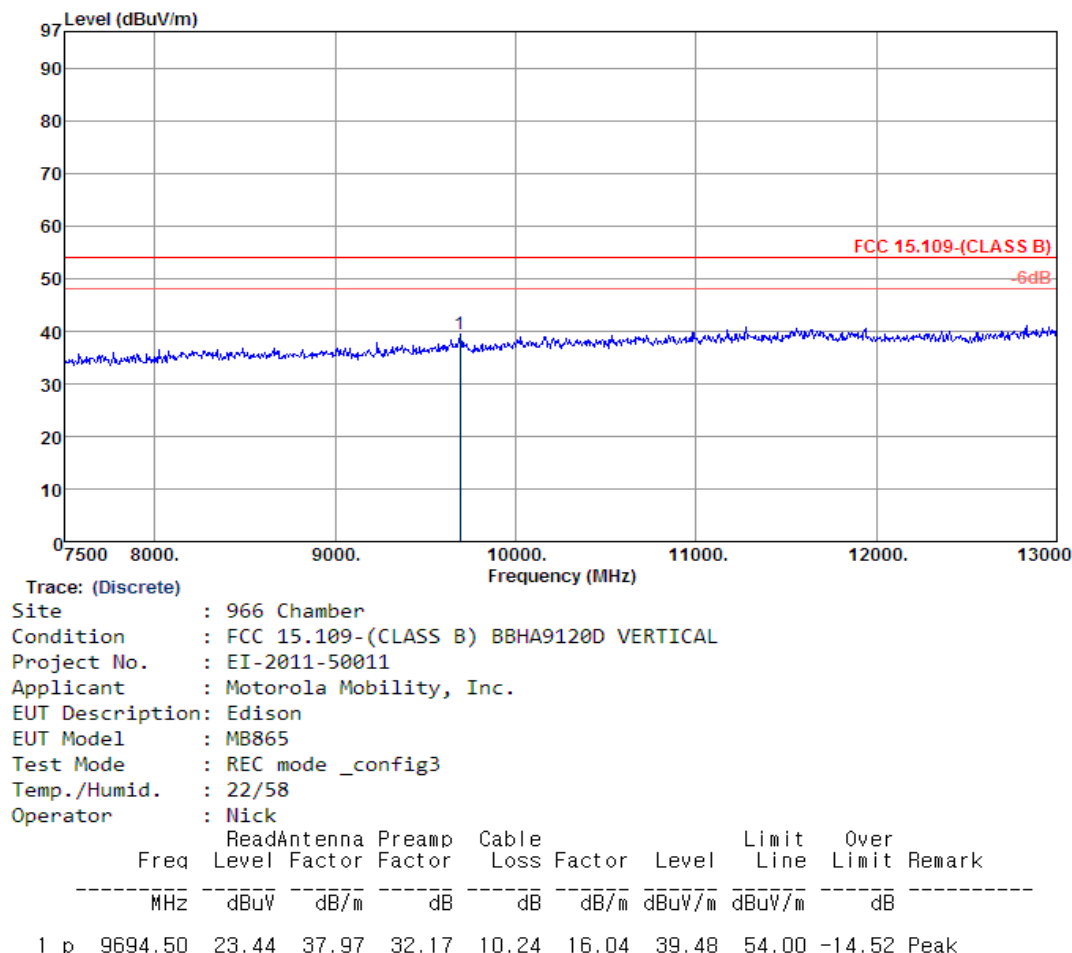
Member of SGS Group

Test Mode: Config 3

Test Date: Jun. 13, 2011

Frequency Range: 7.5GHz – 13GHz

Test By: Nick



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 7.5GHz to 13GHz was 1MHz

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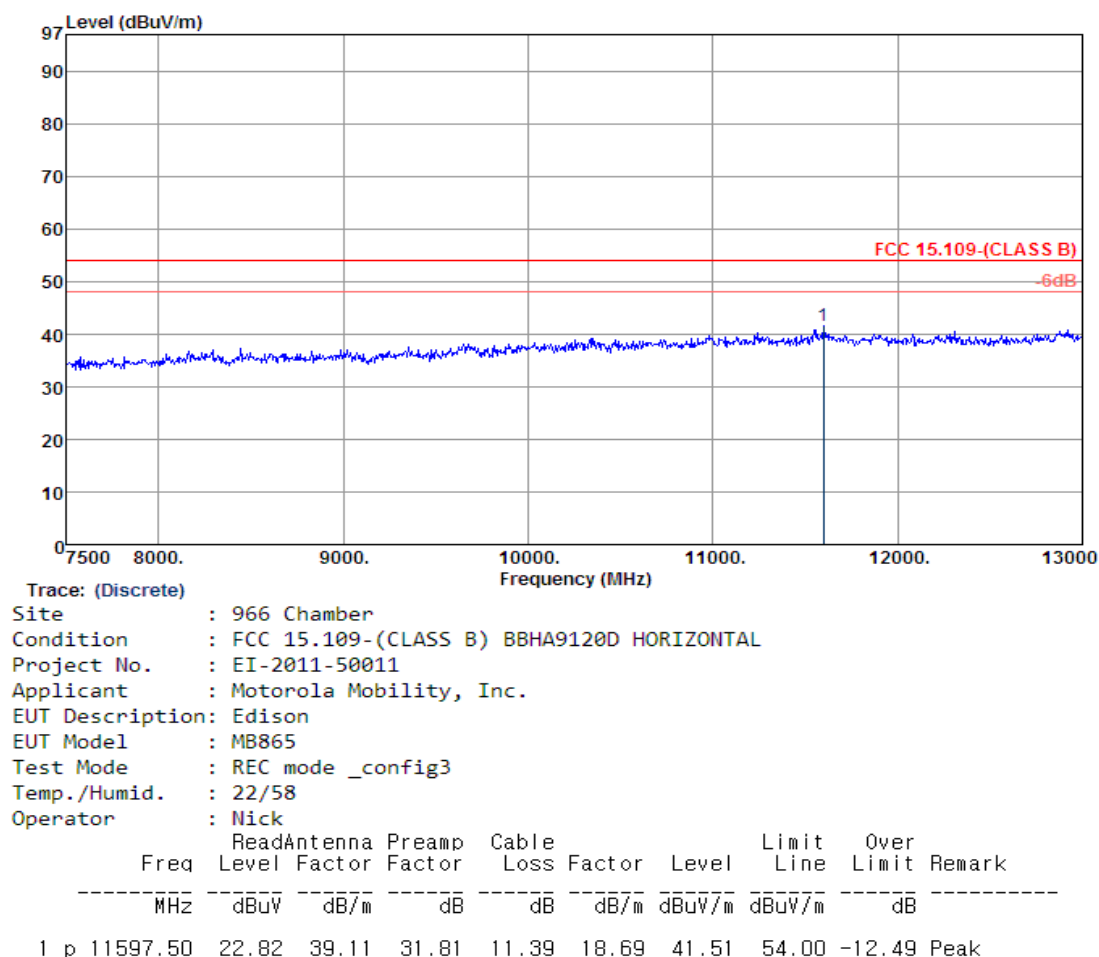
Member of SGS Group

Test Mode: Config 3

Test Date : Jun. 13, 2011

Frequency Range: 7.5GHz – 13GHz

Test By: Nick



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 7.5GHz to 13GHz was 1MHz

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Test Mode: Config 4

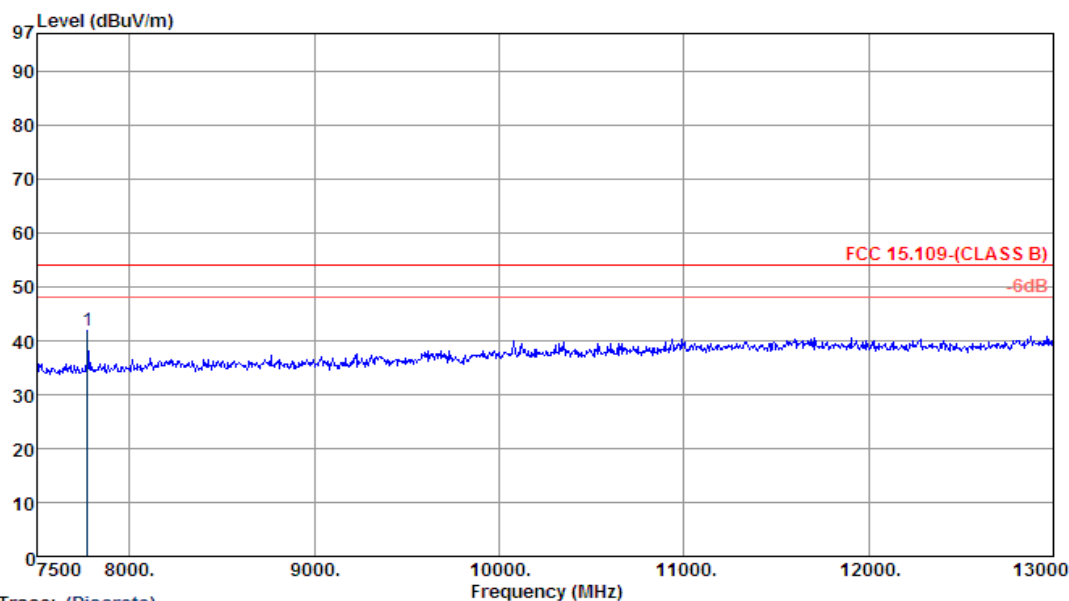
Test Date : Jun. 13, 2011

Frequency Range: 7.5GHz – 13GHz

Test By: Nick

Worst Case:

Resolution: High (HD-1920-1080)



Site : 966 Chamber
 Condition : FCC 15.109-(CLASS B) BBHA9120D VERTICAL
 Project No. : EI-2011-50011
 Applicant : Motorola Mobility, Inc.
 EUT Description: Edison
 EUT Model : MB865
 Test Mode : Play mode _config4 (HD-1920*1080)
 Temp./Humid. : 22/58
 Operator : Nick

	Freq	Read Level	Antenna Factor	Preamplifier Factor	Cable Loss Factor	Level	Limit	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	7775.00	28.79	36.67	32.61	9.11	41.96	54.00	-12.04	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 7.5GHz to 13GHz was 1MHz

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Test Mode: Config 4

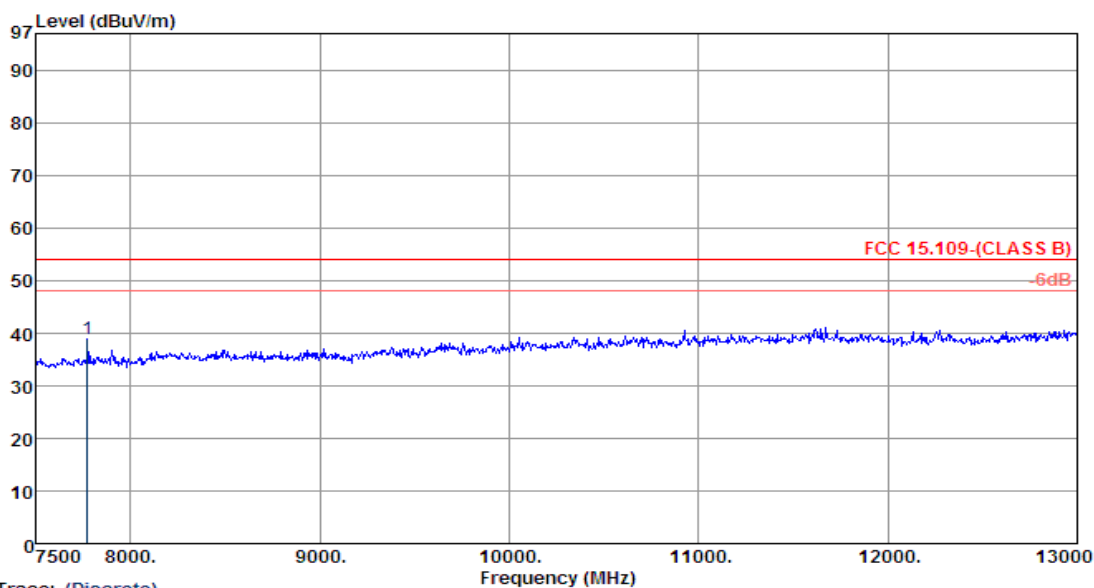
Test Date: Jun. 13, 2011

Frequency Range: 7.5GHz – 13GHz

Test By: Nick

Worst Case:

Resolution: High (HD-1920-1080)



Trace: (Discrete)

Site : 966 Chamber
Condition : FCC 15.109-(CLASS B) BBHA9120D HORIZONTAL
Project No. : EI-2011-50011
Applicant : Motorola Mobility, Inc.
EUT Description: Edison
EUT Model : MB865
Test Mode : Play mode _config4 (HD-1920*1080)
Temp./Humid. : 22/58
Operator : Nick

	Freq	Level	ReadAntenna	Preamp	Cable	Limit	Over	
	MHz	dBuV	Factor	Factor	Loss	Line	Limit	Remark
		dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1 p	7775.00	25.68	36.67	32.61	9.11	13.17	38.85	54.00 -15.15 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 7.5GHz to 13GHz was 1MHz

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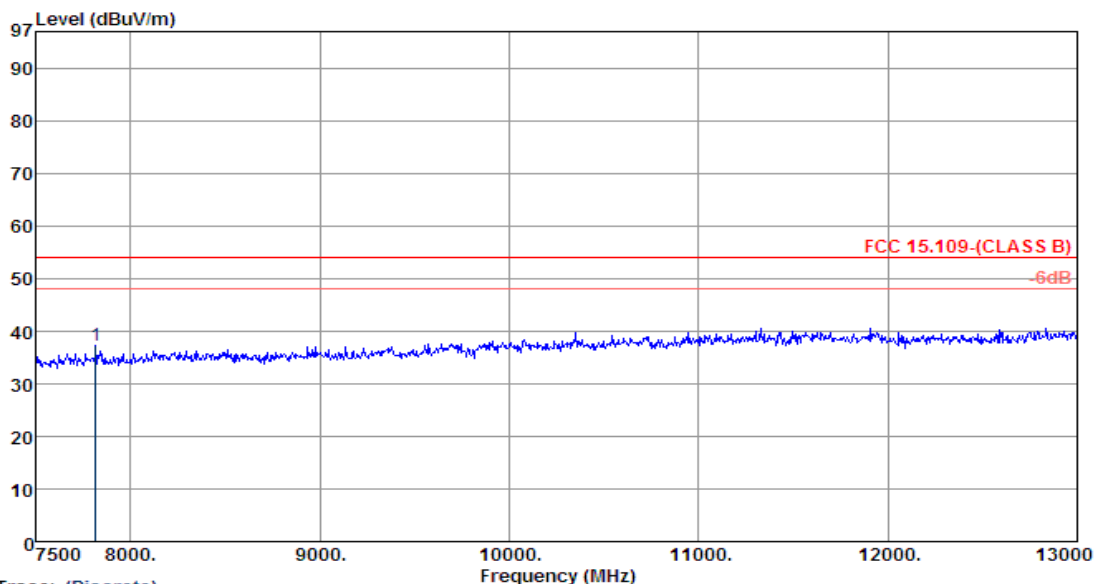
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Test Mode: Config 5

Test Date : Jun. 13, 2011

Frequency Range: 7.5GHz – 13GHz

Test By: Nick



Trace: (Discrete)

Site : 966 Chamber
Condition : FCC 15.109-(CLASS B) BBHA9120D VERTICAL
Project No. : EI-2011-50011
Applicant : Motorola Mobility, Inc.
EUT Description: Edison
EUT Model : MB865
Test Mode : Data link _config5
Temp./Humid. : 22/58
Operator : Nick

	Freq	ReadAntenna	Preamp	Cable			Limit	Over	
	Level	Factor	Factor	Loss	Factor	Level	Line	Limit	Remark
	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	
	MHz								
1 p	7819.00	24.02	36.73	32.59	9.14	13.28	37.30	54.00	-16.70 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 7.5GHz to 13GHz was 1MHz

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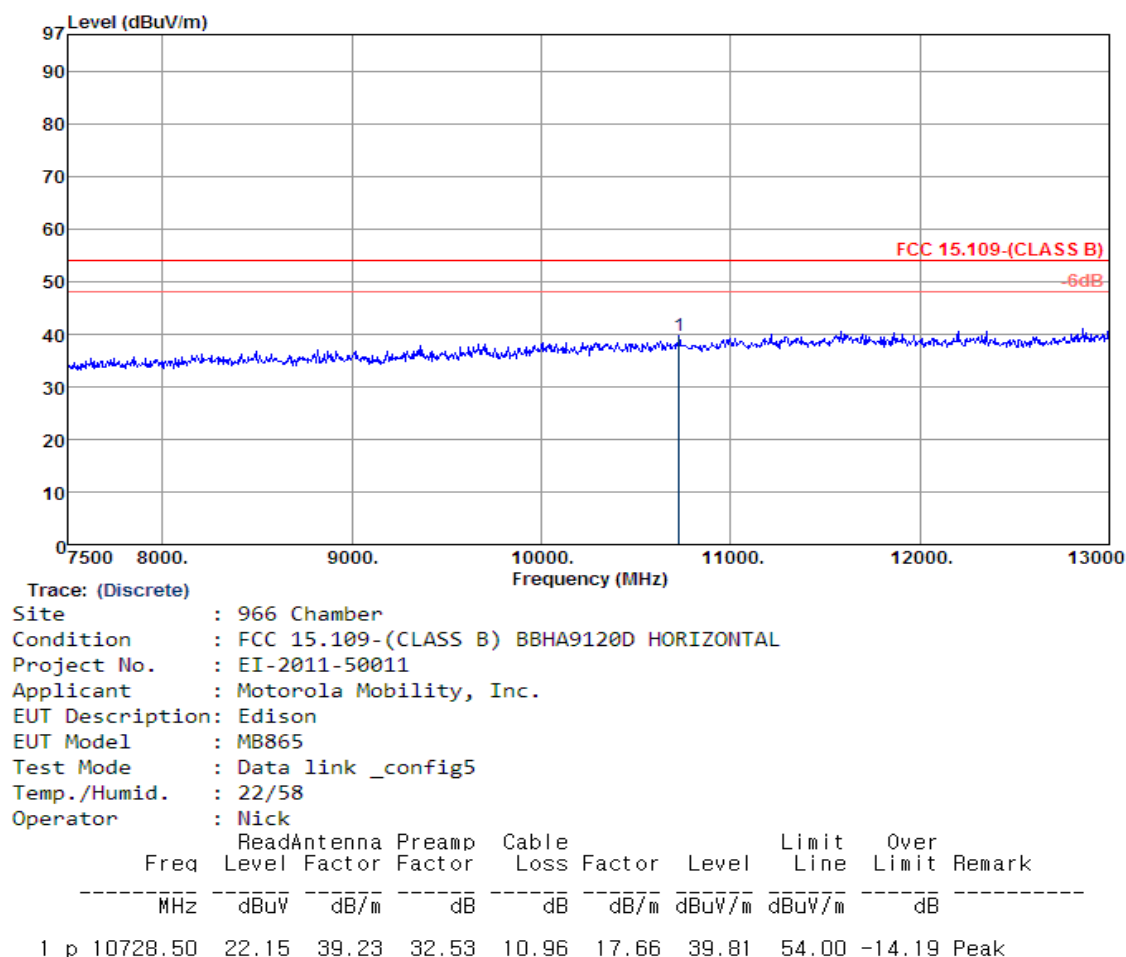
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Test Mode: Config 5
Frequency Range: 7.5GHz – 13GHz

Test Date : Jun. 13, 2011
Test By: Nick



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 7.5GHz to 13GHz was 1MHz

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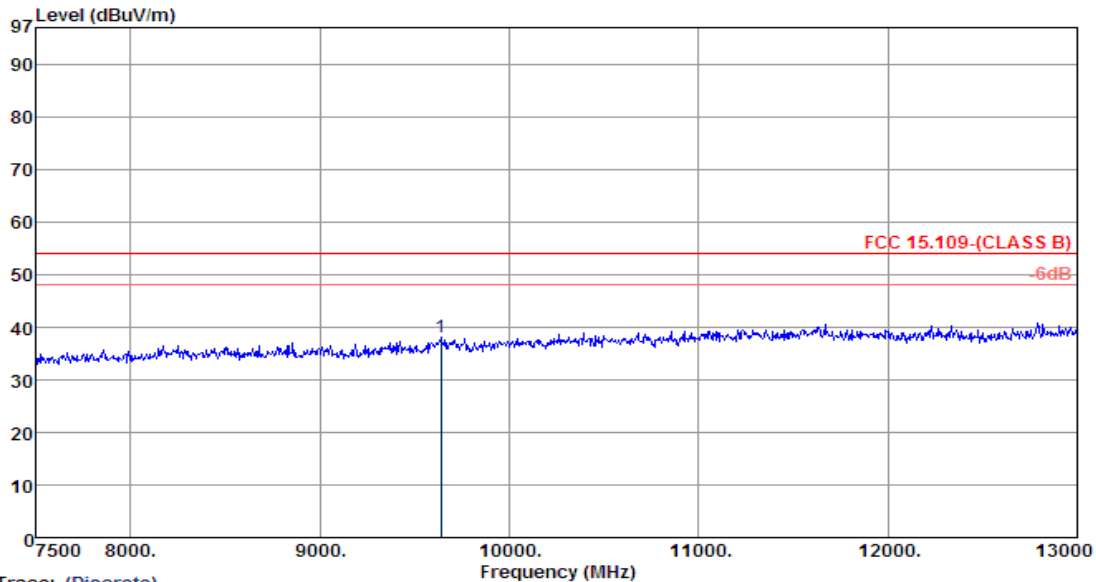
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Test Mode: Config 6

Test Date : Jun. 13, 2011

Frequency Range: 7.5GHz – 13GHz

Test By: Nick



Trace: (Discrete)

Site : 966 Chamber
 Condition : FCC 15.109-(CLASS B) BBHA9120D VERTICAL
 Project No. : EI-2011-50011
 Applicant : Motorola Mobility, Inc.
 EUT Description: Edison
 EUT Model : MB865
 Test Mode : Data link _config6
 Temp./Humid. : 22/58
 Operator : Nick

	Freq	ReadAntenna	Preamp	Cable	Factor	Level	Limit	Over	Remark
	Level	Factor	Factor	Loss	Factor	Level	Line	Limit	
	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	
	MHz	dBuV	dB/m	dB	dB/m	dBuV/m	dBuV/m	dB	
1 p	9639.50	22.12	37.94	32.17	10.23	16.00	38.12	54.00	-15.88 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 7.5GHz to 13GHz was 1MHz

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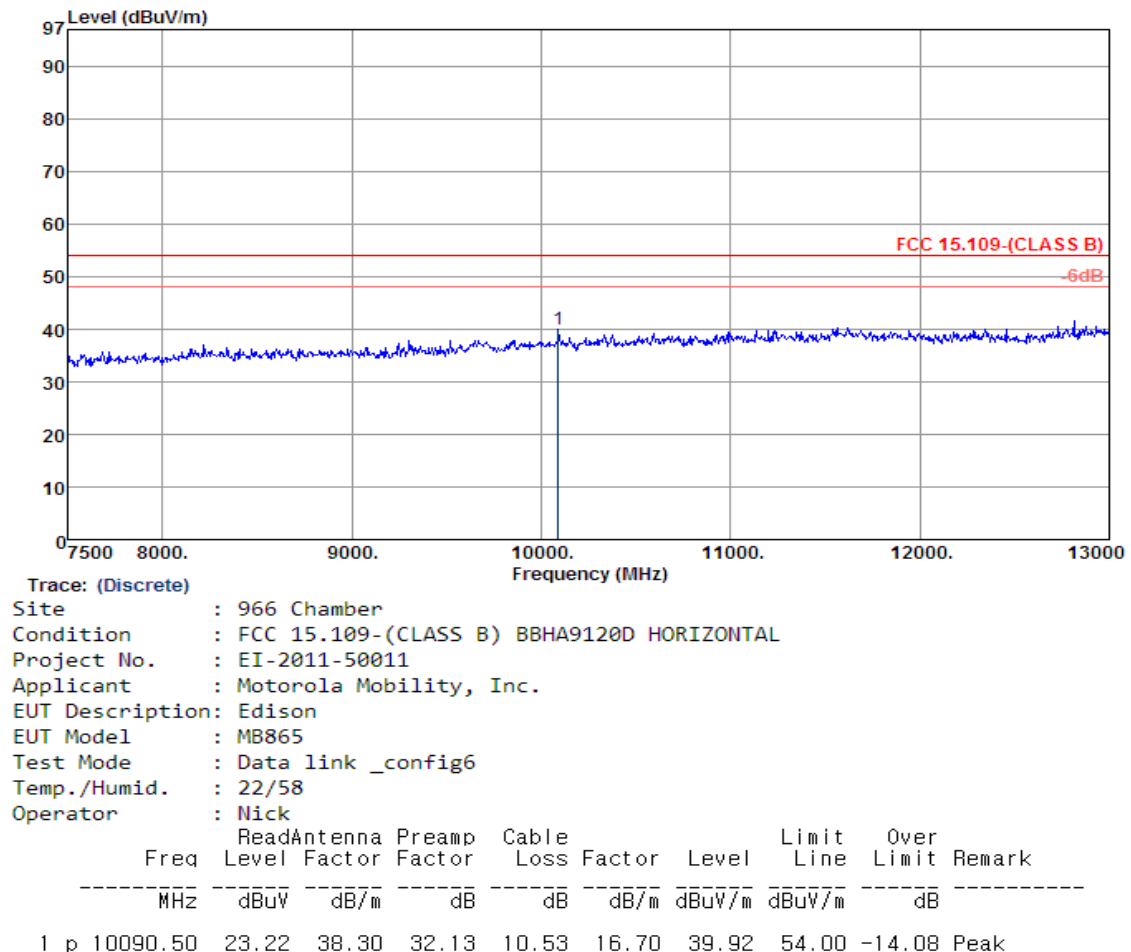
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Test Mode: Config 6

Test Date : Jun. 13, 2011

Frequency Range: 7.5GHz – 13GHz

Test By: Nick



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 7.5GHz to 13GHz was 1MHz

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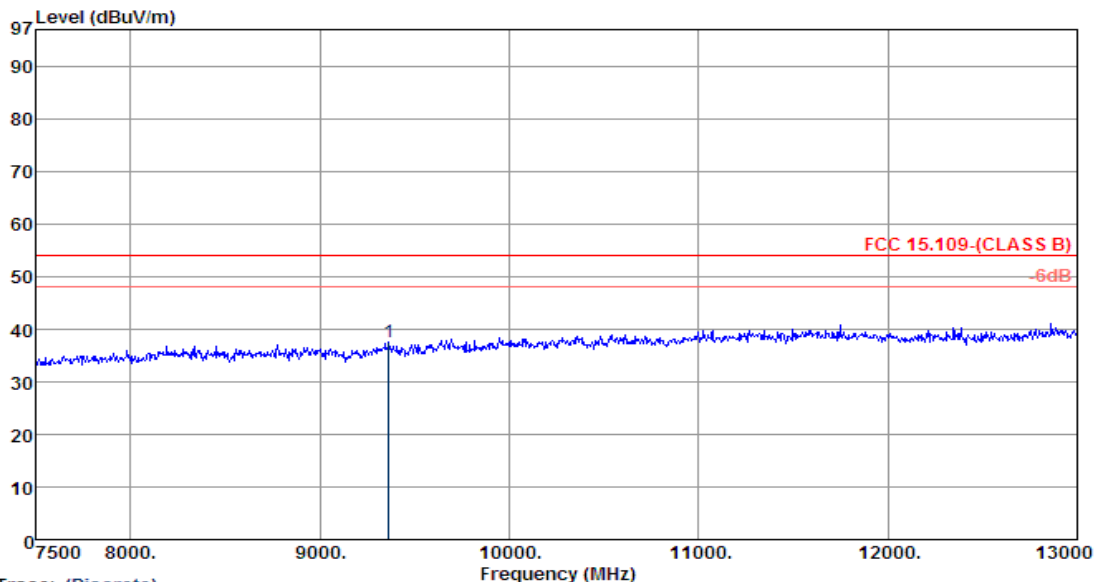
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Test Mode: Config 7

Test Date : Jun. 13, 2011

Frequency Range: 7.5GHz – 13GHz

Test By: Nick



Trace: (Discrete)

Site : 966 Chamber
Condition : FCC 15.109-(CLASS B) BBHA9120D VERTICAL
Project No. : EI-2011-50011
Applicant : Motorola Mobility, Inc.
EUT Description: Edison
EUT Model : MB865
Test Mode : GPS mode _config7
Temp./Humid. : 22/58
Operator : Nick

	Freq	ReadAntenna	Preamp	Cable		Level	Limit	Over	
	Level	Factor	Factor	Loss	Factor		Line	Limit	Remark
	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	
	MHz	dBuV	dB/m	dB	dB/m	dBuV/m	dBuV/m	dB	
1 p	9364.50	22.15	37.72	32.29	10.11	15.54	37.69	54.00	-16.31 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 7.5GHz to 13GHz was 1MHz

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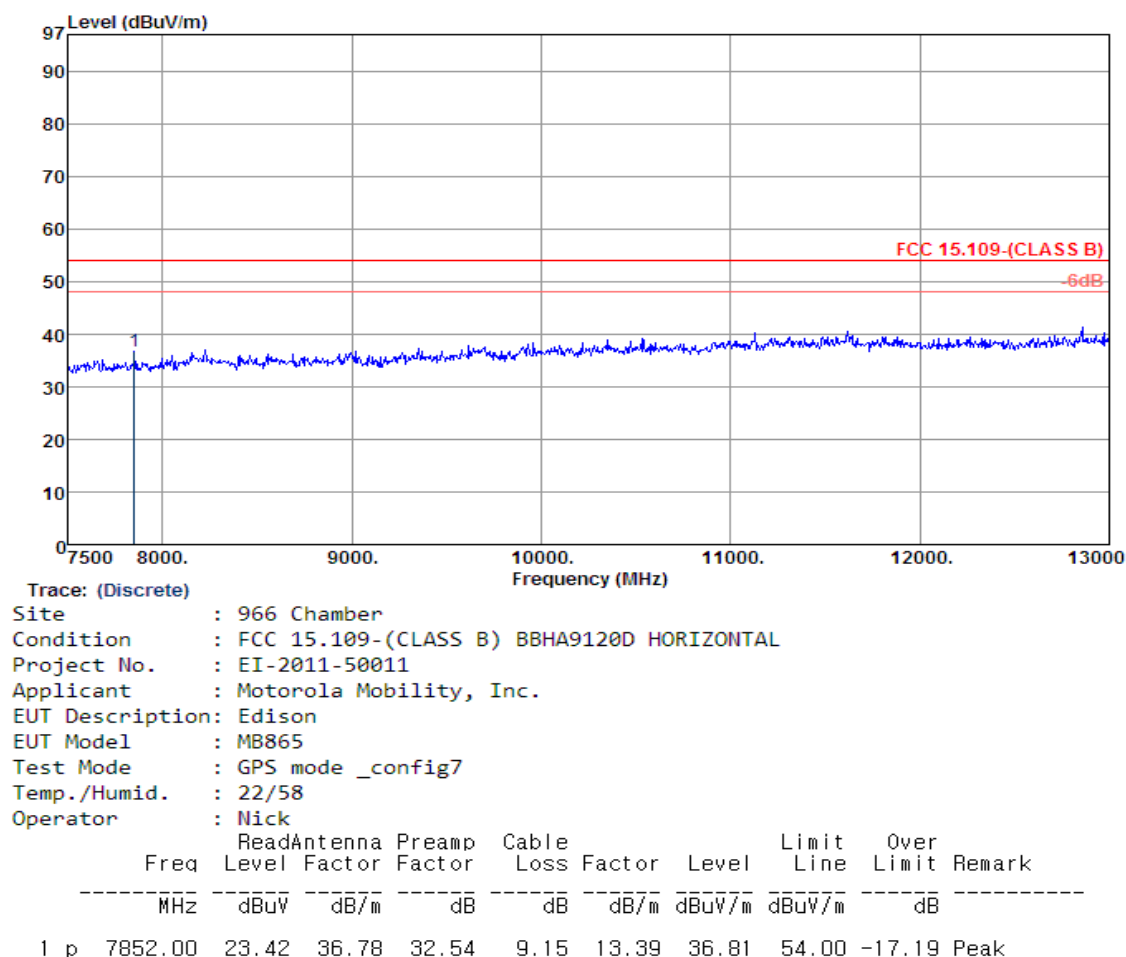
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Test Mode: Config 7

Test Date: Jun. 13, 2011

Frequency Range: 7.5GHz – 13GHz

Test By: Nick



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 7.5GHz to 13GHz was 1MHz

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