

**SGS-CSTC Standards  
Technical Services  
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Report No.: SHEM110700097309

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## ***TEST REPORT***

**Application No.:** SHEM110700097309  
**Applicant:** Panasonic Mobile Communications CO.,LTD.  
**FCC ID:** UCE211044A

**Equipment Under Test (EUT):**

**NOTE:** The following sample(s) submitted was/were identified on behalf of the client as

**Product Name:** WCDMA Digital Mobile Phone

**Model:** EB-4052

**Serial No.:** D26B729N3351208

**Standards:** FCC PART 15: 2009 Subpart B

**Date of Receipt:** Jul. 28, 2011

**Date of Test:** Aug. 15, 2011

**Date of Issue:** Sep. 16. , 2011

<b>Test Result :</b>	<b>PASS*</b>
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\* In the configuration tested, the EUT complied with the standards specified above



E&E Section Head  
SGS-CSTC(Shanghai) Co., Ltd.



E&E Project Engineer  
SGS-CSTC(Shanghai)Co.,Ltd

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## 2 Test Summary

Test	Test Requirement	Test Method	Result
Radiated Emission 30MHz-1000MHz	CFR 47 Part 15.109	ANSI C63.4: 2003	PASS
Conducted Emission 150KHz-30MHz	CFR 47 Part 15.107	ANSI C63.4: 2003	PASS

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## 4 General Information

### 4.1 Client Information

Applicant: Panasonic Mobile communications Co.,LTD  
 Address of Applicant: 600 Saedo-cho,Tsuzuki-ku,Yokohama;224-8539,Japan  
 Manufacturer: Shanghai Sunrise Simcom Limited  
 Address of Manufacturer: No.888 shengli RD. Qingpu district, SHANGHAI, China

### 4.2 General Description of E.U.T.

EUT Name: WCDMA Digital Mobile Phone  
 Brand Name: NTT DOCOMO  
 Model No: EB-4052  
 Supported Frequency Bands: GSM850/900/1800/1900, WCDMA Band I/V  
 Bluetooth support: V2.1 (EDR)  
 WiFi: 802.11 b/g/n  
 Test Frequency Bands: GSM850/1900, WCDMA Band V, BT, WiFi

### 4.3 Details of E.U.T.

Hardware Version: V2.2  
 Software Version: ponyo-ginger-dcm-07-0033  
 M7630A-ABBQMAZM-4.1.30T V0.25  
 AC Adaptor (with USB cable): Model: P01(UHA)  
 (Input :110-240V~ 50/60 Hz, 0.14A, Output : 5.0 VDC, 1.0A)  
 (Cable Length:1.34m)  
 Battery: Model: P25  
 S/N:Unknown  
 3.7V 1200mAh

### 4.4 Standards Applicable for Testing

The standards used were CFR 47 Part 15B:

**Table 1 : Tests Carried Out Under CFR 47 Part 15B :**

Standard		Status
FCC Part 15 Subpart B	Radiated Emission	√
FCC Part 15 Subpart B	Conducted Emission	√

× Indicates that the test is not applicable  
 √ Indicates that the test is applicable

#### **4.5 Test Location**

All the tests were performance at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.  
No.588 West Jindu Road, Songjiang District, Shanghai, China. 201612.  
Tel: +86 21 6191 5666 Fax: +86 21 6191 5655

#### **4.6 Test Confident level**

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

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing. Date of expiry: 2014-07-26.

- **FCC – Registration No.: 402683**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683, Expiry Date: 2012-03-17.

- **Industry Canada (IC) – IC Assigned Code: 8617A**

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A. Expiry Date: 2011-09-29.

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-3172 and C-3514 respectively. Date of Registration: 2009-11-30. Date of Expiry: 2012-03-17.

## 5 Equipment Used during Test

### Radiated Emission

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal.Due date
1	EMI test receiver	Rohde & Schwarz	ESU40	100109	2011-06-04	2012-06-03
2	ANTENNA	SCHWARZBECK	VULB9168	9168-313	2011-06-04	2012-06-03
3	ANTENNA	SCHWARZBECK	BBHA9120D	9120D-679	2011-06-04	2012-06-03
4	Controller	INSCO	CO200	474	/	/
5	UNIVERSAL RADIO COMMUNICATION TESTER	Rohde & Schwarz	CMU 200	112012	2011-04-13	2012-04-12

### Conducted Emission

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due date
1	EMI test receiver	Rohde & Schwarz	ESCS30	100086	2011-06-04	2012-06-03
2	Line impedance stabilization network	SCHWARZBECK	NSLK8127	8127-490	2011-05-07	2012-05-06
3	UNIVERSAL RADIO COMMUNICATION TESTER	Rohde & Schwarz	CMU 200	112012	2011-04-13	2012-04-12

### General Equipment

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal.Due date
1	Atmosphere pressure meter	Shanghai ZhongXuan Electronic Co;Ltd	BY-2003P	/	2010-10-15	2011-10-14
2	Digital Multimeter	FLUKE	17B	10560713	2010-09-16	2011-09-15
3	Temperature & humidity recorder	ShangHai weather meter work	ZJ 1-2B	0804181	2011-07-22	2012-07-21
4	Digital illuminance meter	TES electrical electronic Corp.	TES-1330A	050602219	2010-10-16	2011-10-15

## 6 Emission Test Results

### 6.1 Radiated Emissions

Test Requirement: CFR 47 Part 15.109  
Test Method: ANSI C63.4:2003  
Test Date: Aug 15, 2011  
Frequency Range: 30MHz to 1GHz  
Measurement Distance: 3m  
Detector: Peak for pre-scan (120kHz resolution bandwidth)  
Result: **PASS**

#### 6.1.1 E.U.T. Operation

Operating Environment:

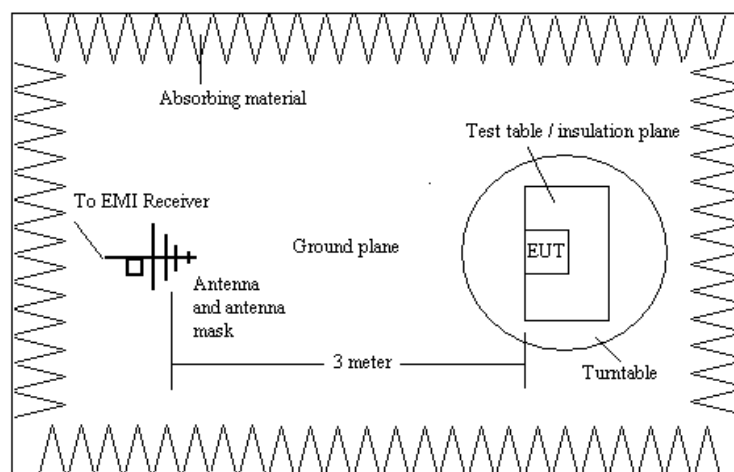
Temperature: 24.0°C Humidity: 48 % RH Atmospheric Pressure: 1012 mbar

EUT Operation: Test EUT connected with laptop in idle mode.

Test EUT connected with AC adaptor in idle mode.

Test EUT connected with earphone in idle mode.

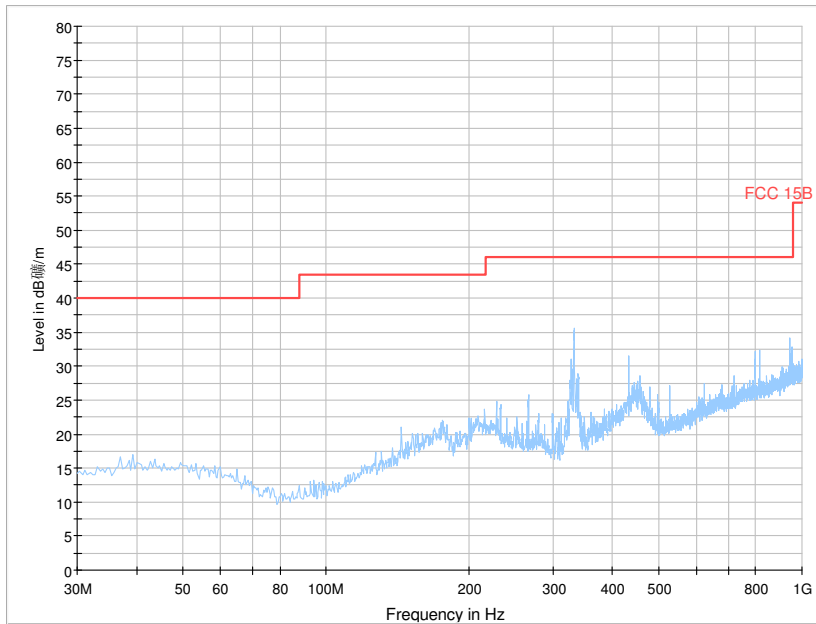
#### 6.1.2 Test setup:



**6.1.3 Measurement Data:**

**Note:** Red limit line - Quasi-peak limit;  
Blue plots - Peak detector scan plots.

Test with laptop in idle mode.  
Horizontal(30MHz -1GHz)

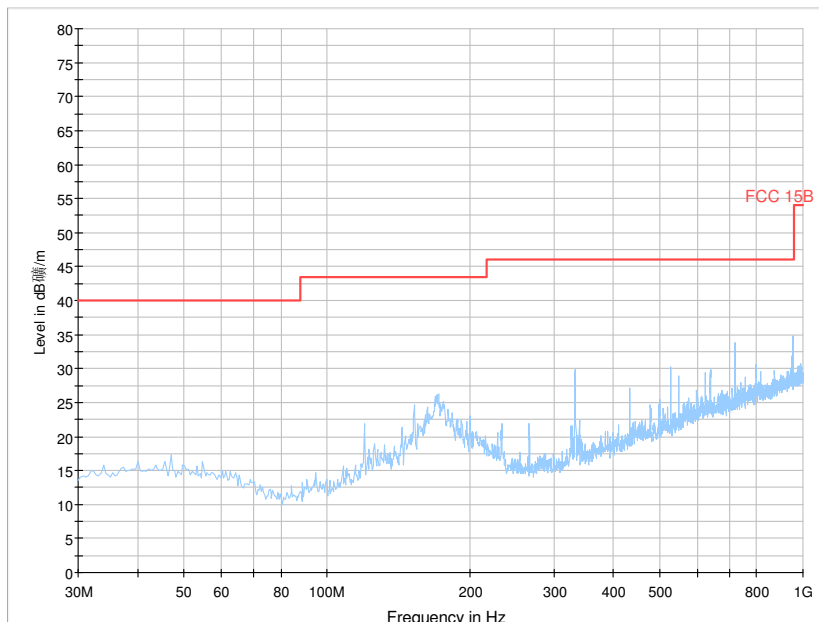


Frequency (MHz)	Actual Level QP (dBuV/m)	Limit (dBuV/m)	Margin (dB)
30.00	*	40.0	*
100.00	*	43.5	*
160.00	*	43.5	*
200.00	*	43.5	*
800.00	*	46.0	*
1000.00	*	54.0	*

“\*” means the emission level is 6dB lower than the relevant limit.



Vertical (30MHz -1GHz):



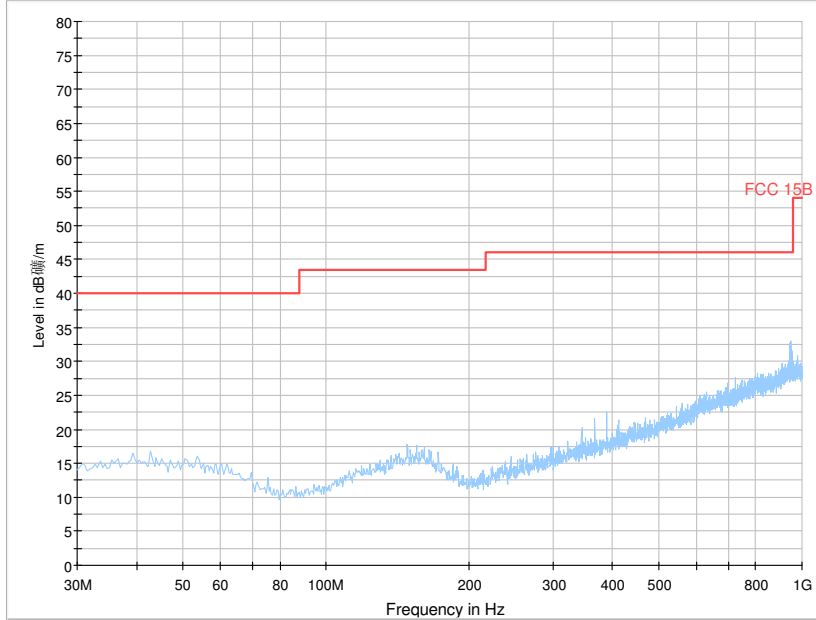
Frequency (MHz)	Actual Level QP (dBuV/m)	Limit (dBuV/m)	Margin (dB)
30.00	*	40.0	*
100.00	*	43.5	*
160.00	*	43.5	*
200.00	*	43.5	*
800.00	*	46.0	*
1000.00	*	54.0	*

“\*” means the emission level is 6dB lower than the relevant limit.

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Test with AC adaptor in idle mode.  
Horizontal(30MHz -1GHz)



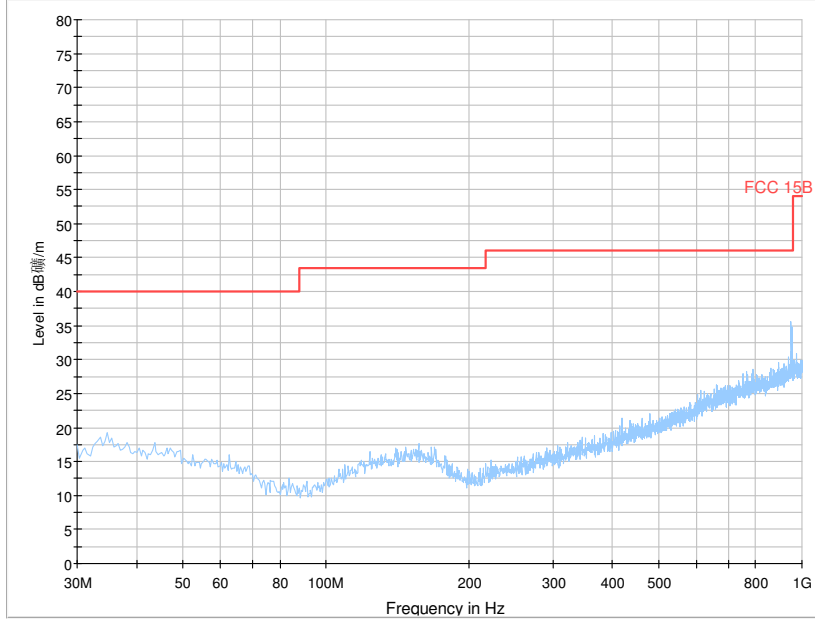
Frequency (MHz)	Actual Level QP (dBuV/m)	Limit (dBuV/m)	Margin (dB)
30.00	*	40.0	*
100.00	*	43.5	*
160.00	*	43.5	*
200.00	*	43.5	*
800.00	*	46.0	*
1000.00	*	54.0	*

“\*” means the emission level is 6dB lower than the relevant limit.

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Vertical (30MHz -1GHz):



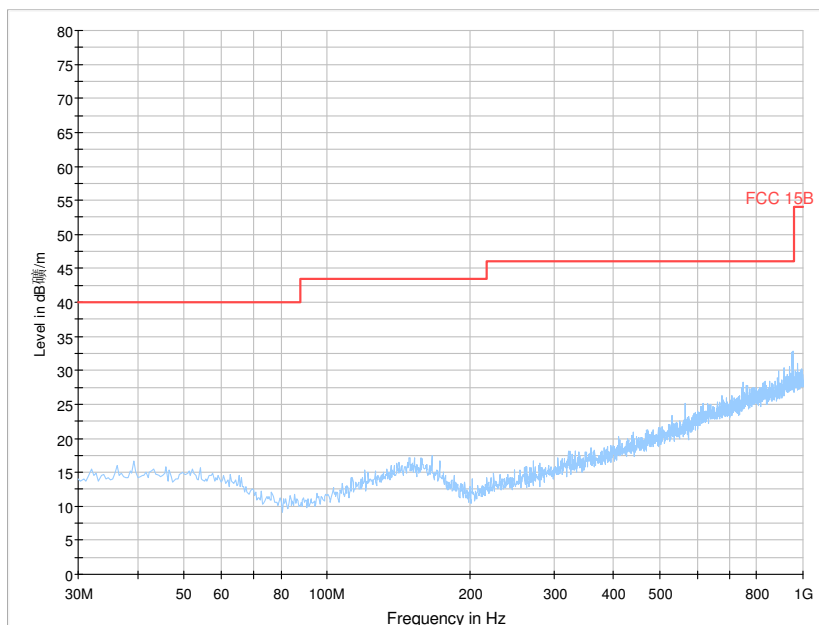
Frequency (MHz)	Actual Level QP (dBuV/m)	Limit (dBuV/m)	Margin (dB)
30.00	*	40.0	*
100.00	*	43.5	*
160.00	*	43.5	*
200.00	*	43.5	*
800.00	*	46.0	*
1000.00	*	54.0	*

“\*” means the emission level is 6dB lower than the relevant limit.

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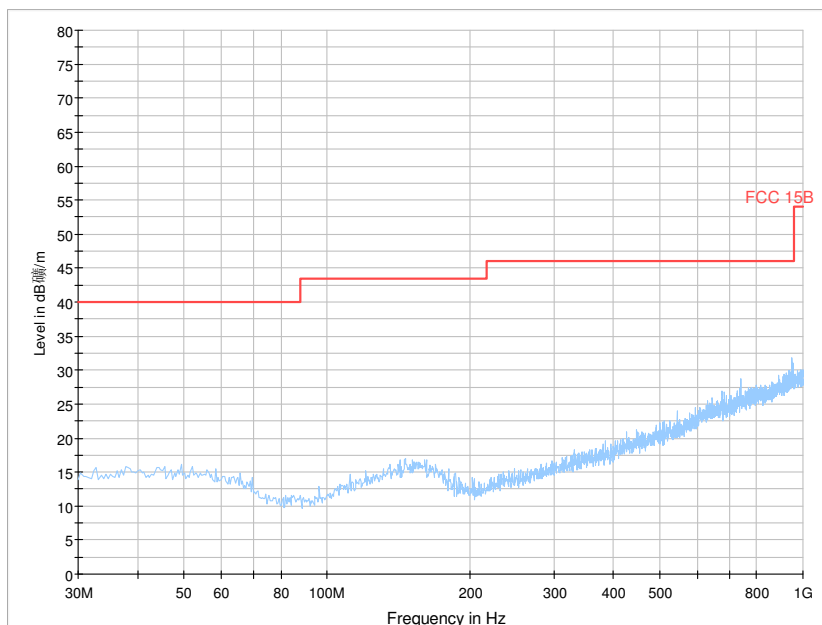
Test with earphone in idle mode.  
Horizontal(30MHz -1GHz)



Frequency (MHz)	Actual Level QP (dBuV/m)	Limit (dBuV/m)	Margin (dB)
30.00	*	40.0	*
100.00	*	43.5	*
160.00	*	43.5	*
200.00	*	43.5	*
800.00	*	46.0	*
1000.00	*	54.0	*

“\*” means the emission level is 6dB lower than the relevant limit.

Vertical (30MHz -1GHz):



Frequency (MHz)	Actual Level QP (dBuV/m)	Limit (dBuV/m)	Margin (dB)
30.00	*	40.0	*
100.00	*	43.5	*
160.00	*	43.5	*
200.00	*	43.5	*
800.00	*	46.0	*
1000.00	*	54.0	*

“\*” means the emission level is 6dB lower than the relevant limit.

## 6.2 Conducted Emissions

Test Requirement: CFR 47 part 15.107  
Test Method: ANSI C63.4:2003  
Test Date: Aug 15, 2011  
Frequency Range: 150kHz to 30MHz  
Limit:

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\* Decreases with the logarithm of the frequency.

Result: **PASS**

### 6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.0°C Humidity: 45% RH Atmospheric Pressure: 1010 mbar

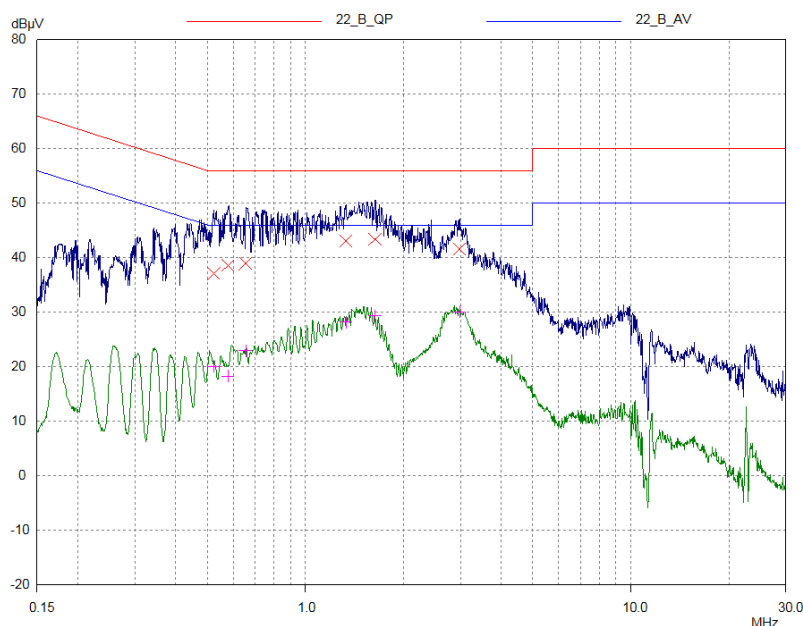
EUT Operation: Test EUT connected with AC adaptor in idle mode.

### 6.2.2 Test Result and Measurement Data

**Note:** Blue limit line - AV limit, Red limit line - Quasi-peak limit;  
Blue plots - Peak detector scan plots, Green plots - AV detector scan plots.

Test with AC adaptor in idle mode.

L Line

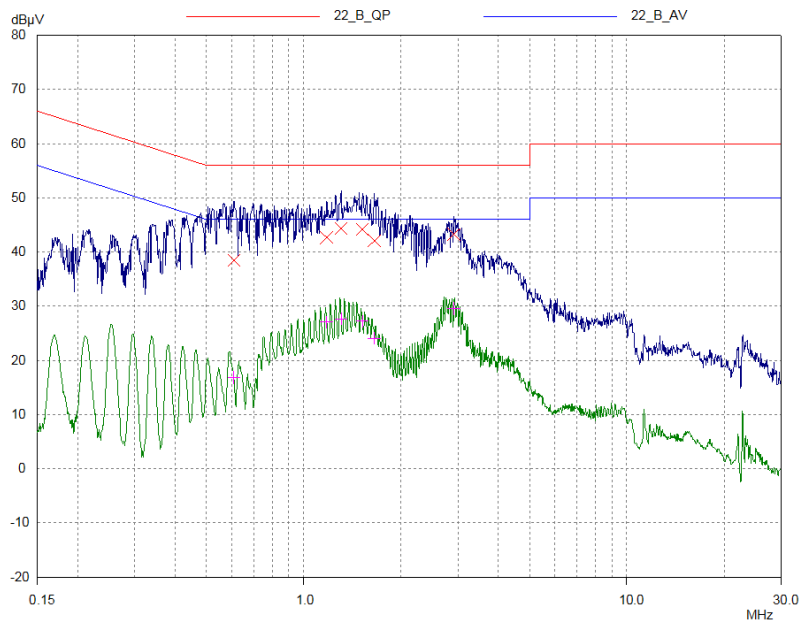


**Final Measurement Results**

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.52329	37.17	56.00	18.83
0.57821	38.63	56.00	17.37
0.65438	38.95	56.00	17.05
1.33177	43.08	56.00	12.92
1.63249	43.40	56.00	12.60
2.97103	41.60	56.00	14.40

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.52329	20.10	46.00	25.90
0.57821	18.23	46.00	27.77
0.65438	22.98	46.00	23.02
1.33177	28.21	46.00	17.79
1.63249	29.32	46.00	16.68
2.97103	30.09	46.00	15.91

N Line:



**Final Measurement Results**

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.60901	38.45	56.00	17.55
1.17675	42.68	56.00	13.32
1.30546	44.34	56.00	11.66
1.5193	44.18	56.00	11.82
1.65216	42.08	56.00	13.92
2.91232	43.26	56.00	12.74

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.60901	16.88	46.00	29.12
1.17675	27.13	46.00	18.87
1.30546	27.66	46.00	18.34
1.5193	27.18	46.00	18.82
1.65216	24.05	46.00	21.95
2.91232	29.50	46.00	16.50

***End of Report~***

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