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Technical Compliance Statement

No. ACS-F14108

FCC Verification

For the following equipment

Submitter : Panasonic Corporation
1-15 Matsuo-cho, Kadoma City, Osaka 571-8504,
Japan

Product : Wireless Speaker System

Model Number : SC-ALL3

We hereby certify that the above product has been tested by us and complied with the FCC official limits. These products might be marketed at the US accordance to FCC Rule based on the standard 47 CFR Part 2 and Part 15 Class B Equipment Regulations. The test was performed accordance to the procedures from ANSI C63.4-2009. The test data & results are issued on the test report no. ACS-F14108.



信華科技(深圳)有限公司
Audix Technology (Shenzhen) Co., Ltd.
EMC 部門報告專用章

Stamp only for EMC Dept. Report

Signature: David Jin

David Jin
Manager

Date: Apr.10, 2014



Lab. Code: 200372-0

The statement is based on a single evaluation of one sample of above mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab. Logo.

APPLICATION OF VERIFICATION

for

Panasonic Corporation

Wireless Speaker System

Model Number: SC-ALL3

Prepared for: Panasonic Corporation

1-15 Matsuo-cho, Kadoma City, Osaka 571-8504, Japan

Prepared By: Audix Technology (Shenzhen) Co., Ltd.

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Report Number : ACS-F14108
Date of Test : Mar.25~29, 2014
Date of Report : Apr.10, 2014

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TEST REPORT VERIFICATION

Applicant : Panasonic Corporation
 Manufacturer : Panasonic Corporation
 EUT Description : Wireless Speaker System
 (A) Model No. : SC-ALL3
 (B) Serial No. : N/A
 (C) Test Voltage : AC 120V/60Hz

Measurement Standard Used:

FCC Rules and Regulations Part 15 Subpart B Class B 2012. ANSI C63.4: 2009

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. To determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B Class B limits both radiated and conducted emissions. The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. Is assumed full responsibility for the accuracy and completeness of these tests. This report contains data that are not covered by the NVLAP accreditation.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This Report is made under FCC Part 2.1075. No modifications were required during testing to bring this product into compliance.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : Mar.25~ 29, 2014 Report of date: Apr.10, 2014

Prepared by : Selina Liu / Supervisor Reviewed by : Mario Wu / Assistant Manager

AUDIX[®] 信華科技 (深圳) 有限公司
 Audix Technology (Shenzhen) Co., Ltd.
 EMC 部門 報告 專用章

Stamp only for EMC Dept. Report
 Signature: David Jin 4.10

Approved & Authorized Signer :

David Jin / Manager

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION			
Description of Test Item	Standard	Results	Remarks
Power Line Conducted Emission Test	FCC Part 15: 2012 ANSI C63.4: 2009	PASS	Meets Class B Limit Minimum passing margin is 10.16dB at 0.35300MHz
Radiated Emission Test (30-1000MHz)	FCC Part 15: 2012 ANSI C63.4: 2009	PASS	Meets Class B Limit Minimum passing margin is 6.33dB at 850.000MHz
Radiated Emission Test (1000-18000MHz)	FCC Part 15: 2012 ANSI C63.4: 2009	PASS	Meets Class B Limit Minimum passing margin is 6.52dB at 7425.560MHz

2. GENERAL INFORMATION

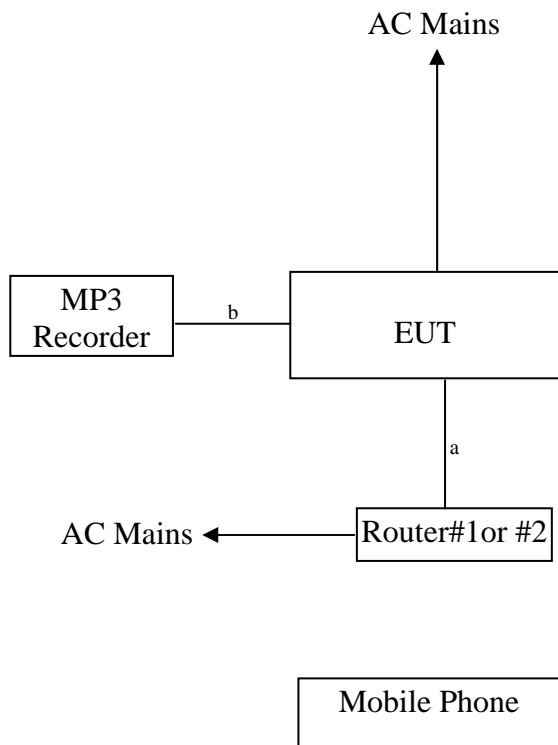
2.1. Description of Device (EUT)

Description	: Wireless Speaker System
Model Number	: SC-ALL3
Applicant	: Panasonic Corporation 1-15 Matsuo-cho, Kadoma City, Osaka 571-8504, Japan
Manufacturer	: Panasonic Corporation 1-15 Matsuo-cho, Kadoma City, Osaka 571-8504, Japan
Power Cord	: Unshielded, Detachable, 1.6m
Date of Test	: Mar.25~29, 2014
Date of Receipt	: Mar.23, 2014
Sample Type	: Prototype production

2.2. Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number	Approved type
1.	Mobile Phone	---	Panasonic	UN-MT300	---	<input checked="" type="checkbox"/> CE/EMC
2.	MP3 Recorder	---	Panasonic	RR-US310	---	<input checked="" type="checkbox"/> CE/EMC
		Audio Cable: Shielded, Detachable, 1.5m				
3.	Router#1	--	NEC	Atern WR8750N	--	<input checked="" type="checkbox"/> FCC DoC <input checked="" type="checkbox"/> CE/EMC
		Audio Cable: Shielded, Detachable, 2.1m				
4.	Router#2	--	TP-LINK	C2	--	<input checked="" type="checkbox"/> FCC DoC <input checked="" type="checkbox"/> CE/EMC
5.	LAN Cable: Shielded Detachable 2.0m					

2.3. Block diagram of connection between the EUT and simulators



a: LAN Cable
b: Audio In Cable

(EUT: Wireless Speaker System)

2.4. Test Facility

Site Description

Name of Firm : Audix Technology (Shenzhen) Co., Ltd.
 No. 6, Ke Feng Rd., 52 Block, Shenzhen
 Science & Industrial Park, Nantou,
 Shenzhen, Guangdong, China

3m Anechoic Chamber : Certificated by FCC, USA
 Registration Number: 90454
 Valid Date: Feb.22, 2015

3m & 10m Anechoic Chamber : Certificated by FCC, USA
 Registration Number: 794232
 Valid Date: Oct.31, 2015

EMC Lab. : Certificated by DAkkS, Germany
 Registration No: D-PL-12151-01-00
 Valid Date: Dec.15, 2016

Accredited by NVLAP, USA
 NVLAP Code: 200372-0
 Valid Date: Mar.31, 2015

2.5. Measurement Uncertainty

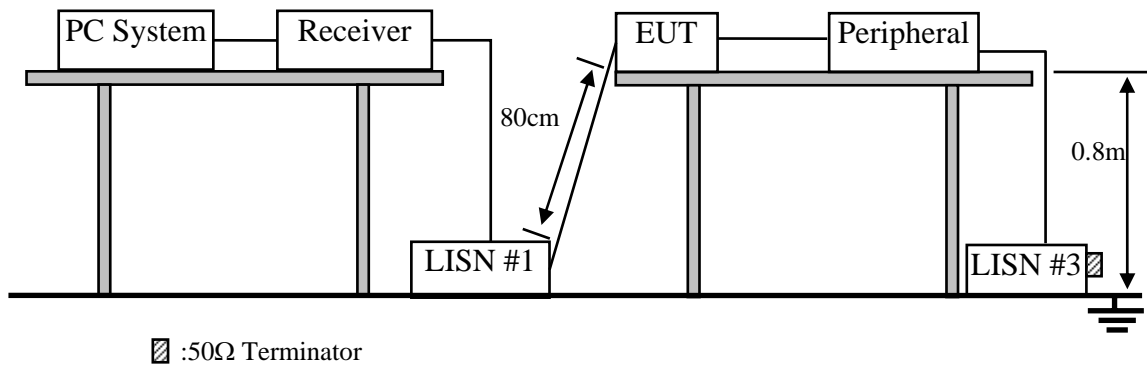
Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	3.10 dB (150kHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	3.22 dB (30~200MHz, Polarize: H)
	3.23 dB (30~200MHz, Polarize: V)
	3.49 dB (200M~1GHz, Polarize: H)
	3.39 dB (200M~1GHz, Polarize: V)
Uncertainty for Radiation Emission test in 3m chamber (1GHz-18GHz)	4.97 dB (1~6GHz, Distance:3m)
	4.99 dB (6~18GHz, Distance:3m)
Uncertainty for test site temperature and humidity	3%
	0.6

3. POWER LINE CONDUCTED EMISSION MEASUREMENT

3.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	1# Shielding Room	AUDIX	N/A	N/A	Apr.18,13	1 Year
2.	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	Oct.31, 13	1 Year
3.	L.I.S.N.#1	Rohde & Schwarz	ESH2-Z5	100429	Jan.22, 14	1 Year
4.	L.I.S.N.#3	Kyoritsu	KNW-242C	8-1920-1	May.08, 13	1 Year
5.	Terminator	Hubersuhner	50Ω	No. 1	May.08, 13	1 Year
6.	Terminator	Hubersuhner	50Ω	No. 2	May.08, 13	1 Year
7.	RF Cable	Hubersuhner	RG58	0100.6954.20#	Jan.22, 14	1 Year
8.	Coaxial Switch	Anritsu	MP59B	M50564	May.08, 13	1 Year
9.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	101838	Jan.22, 14	1 Year
10.	MPEG2 Measurement Generator	ROHDE&SCHWARZ	DVG	100319	Dec.11, 13	1 Year
11.	TV Transmitter	ROHDE&SCHWARZ	SFQ	100521	May.08, 13	1 Year
12.	Signal Generator	HP	8648A	3625U00573	May.08, 13	1 Year
13.	Pattern Generator	Philips	PM5418	LO625020	May.08, 13	1 Year

3.2. Block Diagram of Test Setup



3.3. Power Line Conducted Emission Limits

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

- Notes: 1. * Decreasing linearly with logarithm of frequency.
 2. The lower limit shall apply at the transition frequencies.

3.4. EUT 's Configuration during Compliance Measurement

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4.1. Wireless Speaker System (EUT)

Model Number : SC-ALL3

Serial Number : N/A
 3.4.2.Support Equipment : As Tested Supporting System Detail, in Section 2.2.

3.5.Operating Condition of EUT

- 3.5.1.Setup the EUT and simulator as shown as Section 3.2.
- 3.5.2.Turned on the power of all equipment.
- 3.5.3.Let the EUT worked in test mode (LAN Mode/WLAN Mode/Audio In) and test it.

3.6.Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. #1). This provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N. #3).Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4: 2009 on conducted Emission test.

The bandwidth of the R&S Test Receiver ESHS10 was set at 9kHz.

The frequency range from 150kHz to 30MHz is checked. The test results are reported on Section 3.7.

3.7.Power Line Conducted Emission Measurement Results

PASS. (All emissions not reported below are too low against the prescribed limits.)

The EUT with the following test modes were tested and selected (No.1~3) to read Q.P values, all the test results are listed in next pages.

EUT: Wireless Speaker System Model No. : SC-ALL3

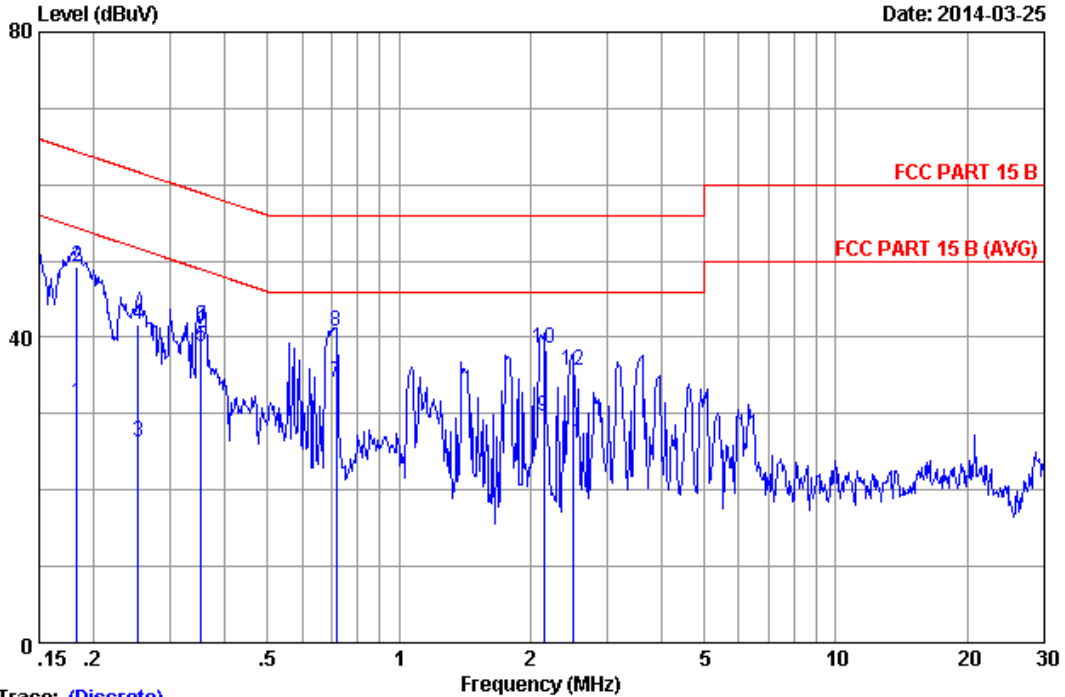
Test Date: Mar.25, 2014 Temperature: 23 Humidity: 46%

The details of test modes are as follows :

No.	Test Mode	Reference Test Data No.	
		LINE	NEUTRAL
1.	LAN Mode	#2	#1
2.	WLAN Mode	#3	#4
3.	Audio In	#6	#5

(Worst test mode)

Data: 2 File: D:\DATA\2014 Report Data\PI\Panasonic\ACS14Q0253.EM6 (12) Date: 2014-03-25



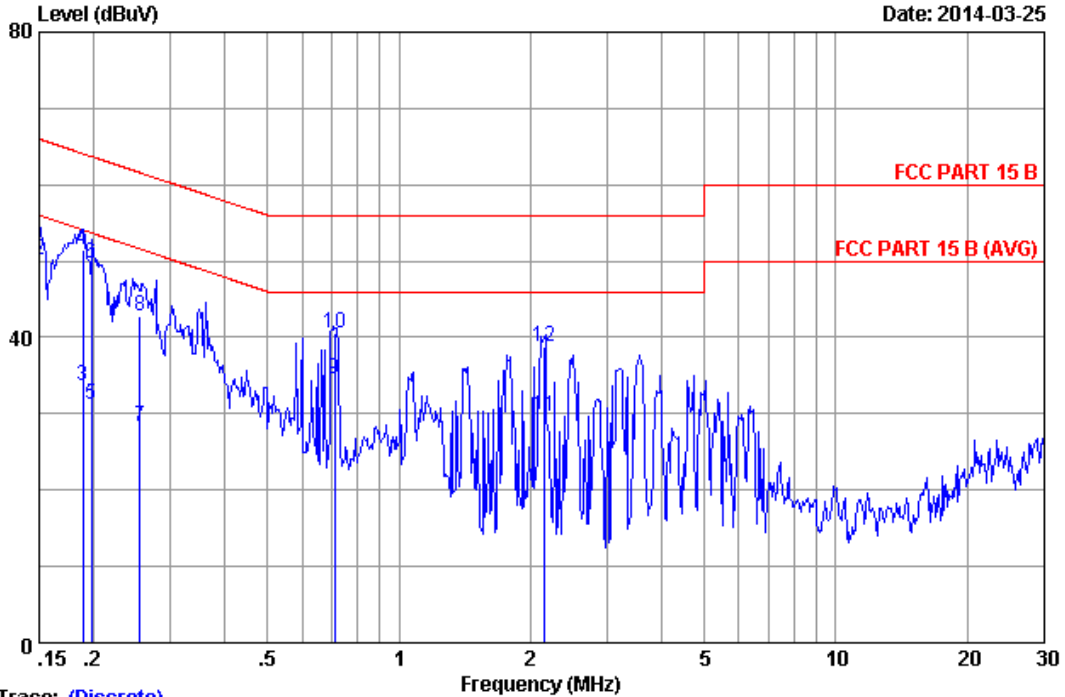
Trace: (Discrete)

Site no :1#conduction Data No :2
 Dis./Ant. :2014 ESH2-25 LINE
 Limit :FCC PART 15 B
 Env./Ins. :23°C/46% Engineer :Dota-YAO
 EUT :Wireless Speaker System M/N:SC-ALL3
 Power Rating :AC 120V/60Hz
 Test Mode :LAN Mode

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.18300	0.13	9.88	21.44	31.45	54.35	22.90	Average
2	0.18300	0.13	9.88	39.13	49.14	64.35	15.21	QP
3	0.25300	0.14	9.88	16.31	26.33	51.66	25.33	Average
4	0.25300	0.14	9.88	31.62	41.64	61.66	20.02	QP
5	0.35300	0.14	9.88	28.71	38.73	48.89	10.16	Average
6	0.35300	0.14	9.88	31.49	41.51	58.89	17.38	QP
7	0.71800	0.16	9.89	23.94	33.99	46.00	12.01	Average
8	0.71800	0.16	9.89	30.72	40.77	56.00	15.23	QP
9	2.148	0.20	9.91	19.52	29.63	46.00	16.37	Average
10	2.148	0.20	9.91	28.51	38.62	56.00	17.38	QP
11	2.509	0.21	9.92	16.26	26.39	46.00	19.61	Average
12	2.509	0.21	9.92	25.44	35.57	56.00	20.43	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
 2.If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

Data: 1 File: D:\DATA\2014 Report Data\PI\Panasonic\ACS14Q0253.EM6 (12) Date: 2014-03-25



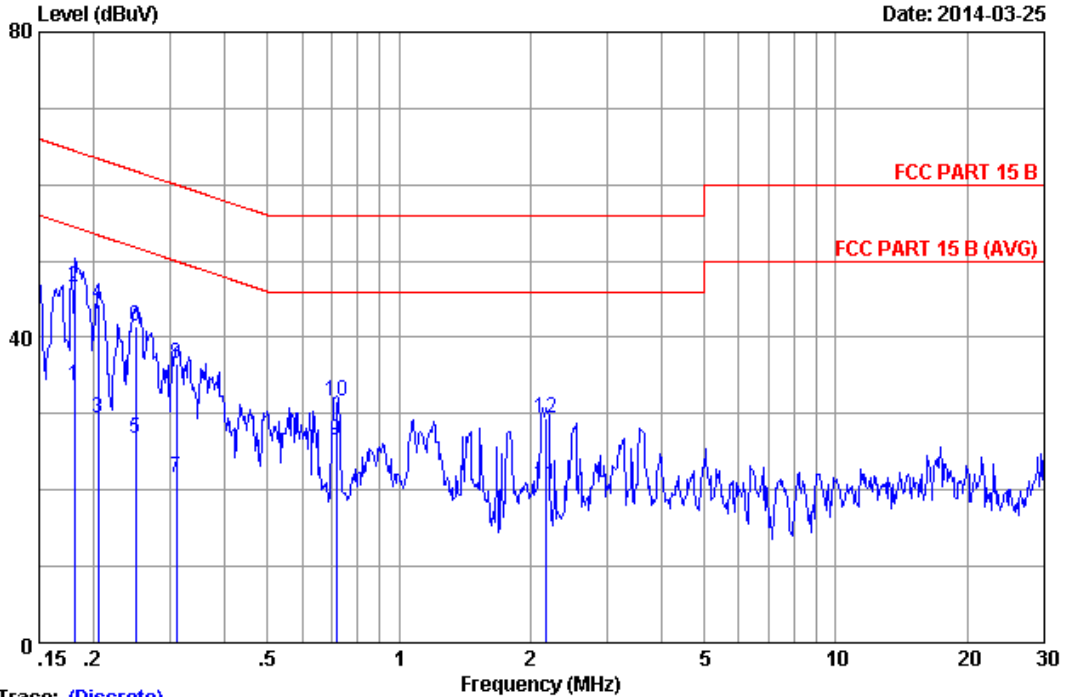
Trace: (Discrete)

Site no :1#conduction Data No :1
 Dis./Ant. :2014 ESH2-25 NEUTRAL
 Limit :FCC PART 15 B
 Env./Ins. :23°C/46% Engineer :Dota-YAO
 EUT :Wireless Speaker System M/N:SC-ALL3
 Power Rating :AC 120V/60Hz
 Test Mode :LAN Mode

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15000	0.13	9.87	19.72	29.72	56.00	26.28	Average
2	0.15000	0.13	9.87	40.23	50.23	66.00	15.77	QP
3	0.18900	0.13	9.88	23.70	33.71	54.08	20.37	Average
4	0.18900	0.13	9.88	41.40	51.41	64.08	12.67	QP
5	0.19800	0.13	9.88	21.25	31.26	53.69	22.43	Average
6	0.19800	0.13	9.88	39.63	49.64	63.69	14.05	QP
7	0.25500	0.14	9.88	18.18	28.20	51.59	23.39	Average
8	0.25500	0.14	9.88	32.72	42.74	61.59	18.85	QP
9	0.71200	0.15	9.89	24.48	34.52	46.00	11.48	Average
10	0.71200	0.15	9.89	30.62	40.66	56.00	15.34	QP
11	2.148	0.21	9.91	19.41	29.53	46.00	16.47	Average
12	2.148	0.21	9.91	28.57	38.69	56.00	17.31	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
 2.If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

Data: 3 File: D:\DATA\2014 Report Data\PI\Panasonic\ACS14Q0253.EM6 (12) Date: 2014-03-25

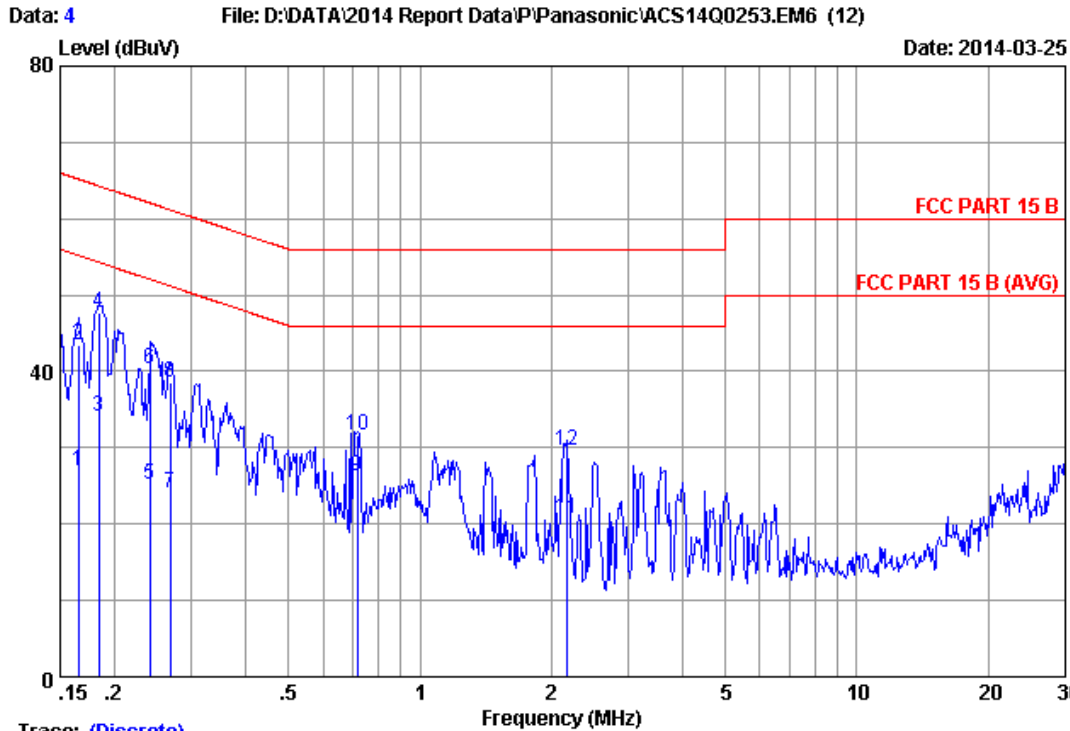


Trace: (Discrete)

Site no :1#conduction Data No :3
 Dis./Ant. :2014 ESH2-25 LINE
 Limit :FCC PART 15 B
 Env./Ins. :23°C/46% Engineer :Dota-YAO
 EUT :Wireless Speaker System M/N:SC-ALL3
 Power Rating :AC 120V/60Hz
 Test Mode :WLAN Mode

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.18100	0.13	9.88	23.56	33.57	54.44	20.87	Average
2	0.18100	0.13	9.88	36.67	46.68	64.44	17.76	QP
3	0.20500	0.13	9.88	19.45	29.46	53.41	23.95	Average
4	0.20500	0.13	9.88	34.42	44.43	63.41	18.98	QP
5	0.24900	0.13	9.88	16.81	26.82	51.79	24.97	Average
6	0.24900	0.13	9.88	31.53	41.54	61.79	20.25	QP
7	0.30900	0.14	9.88	11.63	21.65	50.00	28.35	Average
8	0.30900	0.14	9.88	26.46	36.48	60.00	23.52	QP
9	0.71900	0.16	9.89	16.37	26.42	46.00	19.58	Average
10	0.71900	0.16	9.89	21.52	31.57	56.00	24.43	QP
11	2.169	0.20	9.91	10.52	20.63	46.00	25.37	Average
12	2.169	0.20	9.91	19.34	29.45	56.00	26.55	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
 2.If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

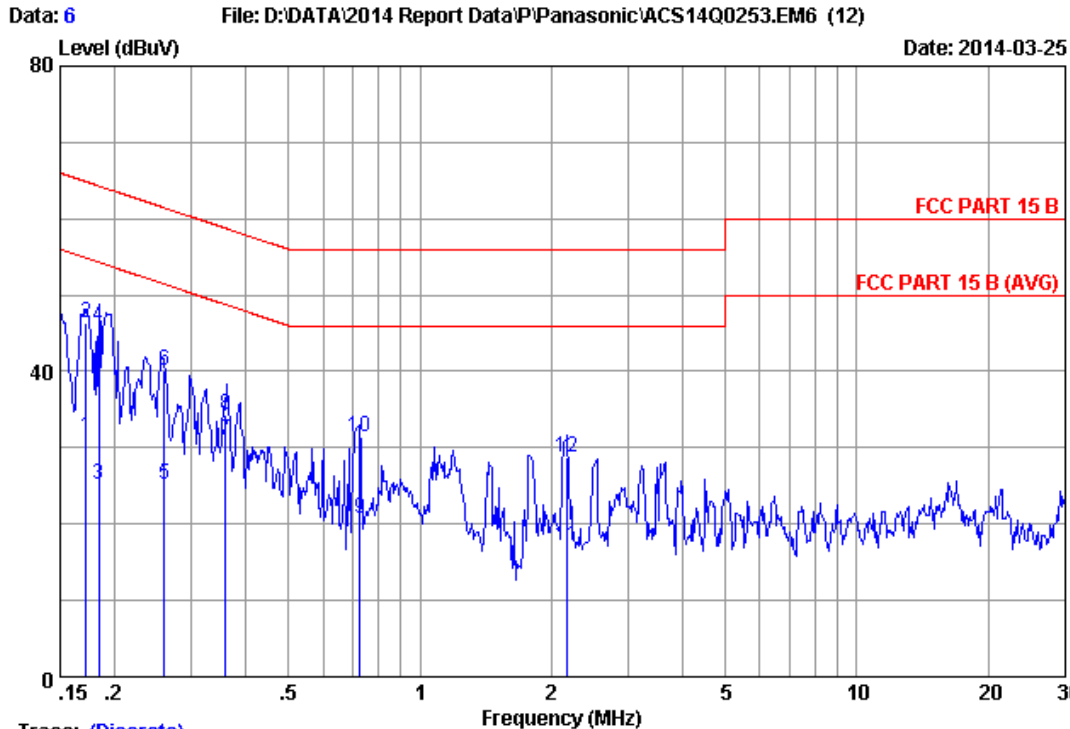


Trace: (Discrete)

Site no :1#conduction Data No :4
 Dis./Ant. :2014 ESH2-25 NEUTRAL
 Limit :FCC PART 15 B
 Env./Ins. :23°C/46% Engineer :Dota-YAO
 EUT :Wireless Speaker System M/N:SC-ALL3
 Power Rating :AC 120V/60Hz
 Test Mode :WLAN Mode

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.16500	0.13	9.87	16.95	26.95	55.21	28.26	Average
2	0.16500	0.13	9.87	33.41	43.41	65.21	21.80	QP
3	0.18400	0.13	9.88	24.08	34.09	54.30	20.21	Average
4	0.18400	0.13	9.88	37.78	47.79	64.30	16.51	QP
5	0.24100	0.13	9.88	15.24	25.25	52.06	26.81	Average
6	0.24100	0.13	9.88	30.29	40.30	62.06	21.76	QP
7	0.26800	0.14	9.88	13.96	23.98	51.18	27.20	Average
8	0.26800	0.14	9.88	28.56	38.58	61.18	22.60	QP
9	0.71900	0.15	9.89	16.27	26.31	46.00	19.69	Average
10	0.71900	0.15	9.89	21.63	31.67	56.00	24.33	QP
11	2.162	0.21	9.91	10.63	20.75	46.00	25.25	Average
12	2.162	0.21	9.91	19.52	29.64	56.00	26.36	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
 2.If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



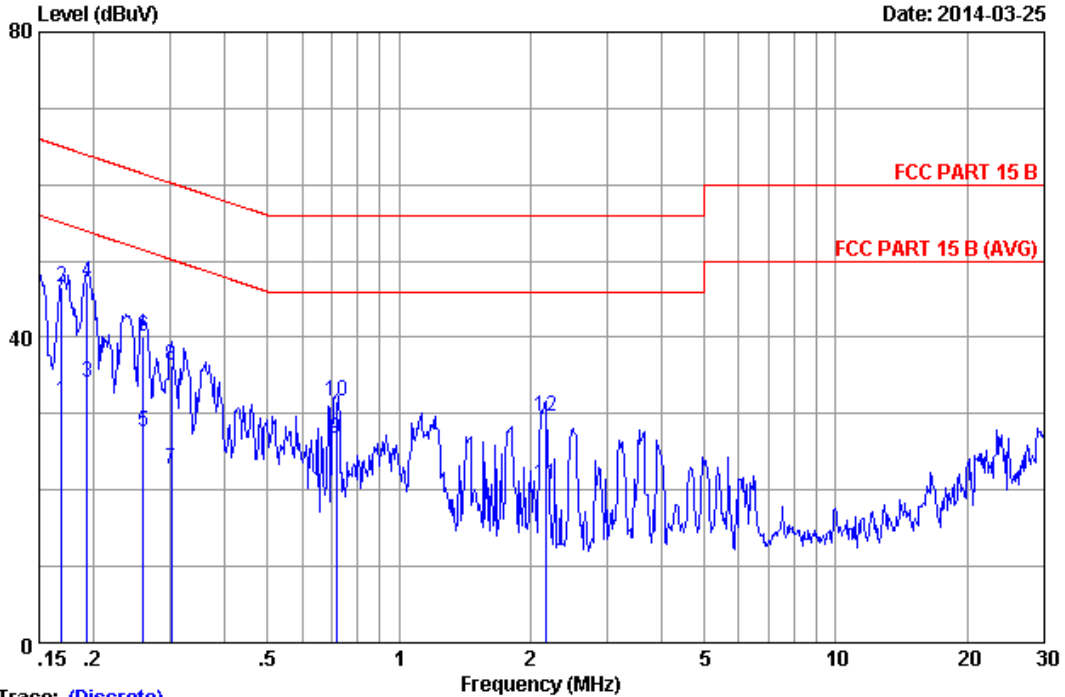
Trace: (Discrete)

Site no :1#conduction Data No :6
 Dis./Ant. :2014 ESH2-25 LINE
 Limit :FCC PART 15 B
 Env./Ins. :23°C/46% Engineer :Dota-YAO
 EUT :Wireless Speaker System M/N:SC-ALL3
 Power Rating :AC 120V/60Hz
 Test Mode :Audio In

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.17200	0.12	9.87	21.48	31.47	54.86	23.39	Average
2	0.17200	0.12	9.87	36.29	46.28	64.86	18.58	QP
3	0.18400	0.13	9.88	15.24	25.25	54.30	29.05	Average
4	0.18400	0.13	9.88	35.93	45.94	64.30	18.36	QP
5	0.26000	0.14	9.88	15.25	25.27	51.43	26.16	Average
6	0.26000	0.14	9.88	30.17	40.19	61.43	21.24	QP
7	0.35900	0.14	9.88	20.98	31.00	48.75	17.75	Average
8	0.35900	0.14	9.88	24.27	34.29	58.75	24.46	QP
9	0.72700	0.16	9.89	10.67	20.72	46.00	25.28	Average
10	0.72700	0.16	9.89	21.36	31.41	56.00	24.59	QP
11	2.178	0.20	9.91	7.12	17.23	46.00	28.77	Average
12	2.178	0.20	9.91	18.69	28.80	56.00	27.20	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
 2.If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

Data: 5 File: D:\DATA\2014 Report Data\PI\Panasonic\ACS14Q0253.EM6 (12) Date: 2014-03-25



Trace: (Discrete)

Site no :1#conduction Data No :5
 Dis./Ant. :2014 ESH2-25 NEUTRAL
 Limit :FCC PART 15 B
 Env./Ins. :23°C/46% Engineer :Dota-YAO
 EUT :Wireless Speaker System M/N:SC-ALL3
 Power Rating :AC 120V/60Hz
 Test Mode :Audio In

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.16900	0.13	9.87	21.63	31.63	55.01	23.38	Average
2	0.16900	0.13	9.87	36.57	46.57	65.01	18.44	QP
3	0.19300	0.13	9.88	23.98	33.99	53.91	19.92	Average
4	0.19300	0.13	9.88	37.13	47.14	63.91	16.77	QP
5	0.26000	0.14	9.88	17.53	27.55	51.43	23.88	Average
6	0.26000	0.14	9.88	30.16	40.18	61.43	21.25	QP
7	0.30100	0.14	9.88	12.78	22.80	50.22	27.42	Average
8	0.30100	0.14	9.88	26.34	36.36	60.22	23.86	QP
9	0.71900	0.15	9.89	16.62	26.66	46.00	19.34	Average
10	0.71900	0.15	9.89	21.68	31.72	56.00	24.28	QP
11	2.166	0.21	9.91	10.71	20.83	46.00	25.17	Average
12	2.166	0.21	9.91	19.43	29.55	56.00	26.45	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
 2.If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

4. RADIATED EMISSION MEASUREMENT

4.1. Test Equipments

4.1.1. For frequency range 30MHz~1000MHz (In 3m Anechoic Chamber)

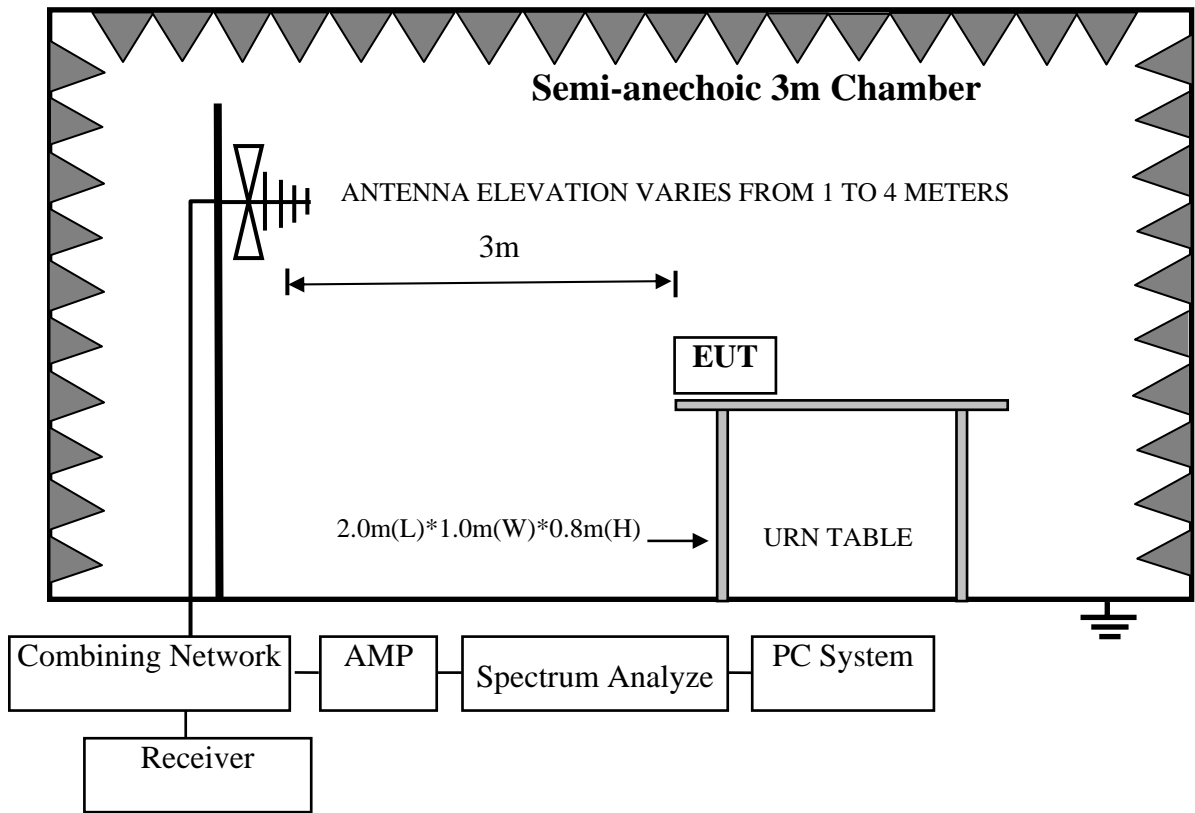
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	3#Chamber	AUDIX	N/A	N/A	Nov.24, 13	1 Year
2	EMI Spectrum	Agilent	E4407B	MY41440292	May.08, 13	1 Year
3	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May.08, 13	1 Year
4	Amplifier	HP	8447D	2648A04738	May.08, 13	1 Year
5	Bilog Antenna	TESEQ	CBL6112D	35375	May.30, 13	1 Year
6	RF Cable	MIYAZAKI	CFD400-NL	3# Chamber No.1	May.08, 13	1 Year
7	Coaxial Switch	Anritsu	MP59B	M74389	May.08, 13	1 Year
8	MPEG2 Measurement Generator	ROHDE&SCHWARZ	DVG	100319	Dec.11, 13	1 Year
9	TV Transmitter	ROHDE&SCHWARZ	SFQ	100521	May.08, 13	1 Year
10	Signal Generator	HP	8648A	3625U00573	May.08, 13	1 Year
11	Pattern Generator	Philips	PM5418	LO625020	May.08, 13	1 Year

4.1.2. For frequency range 1000MHz~18000MHz (In 3m Anechoic Chamber)

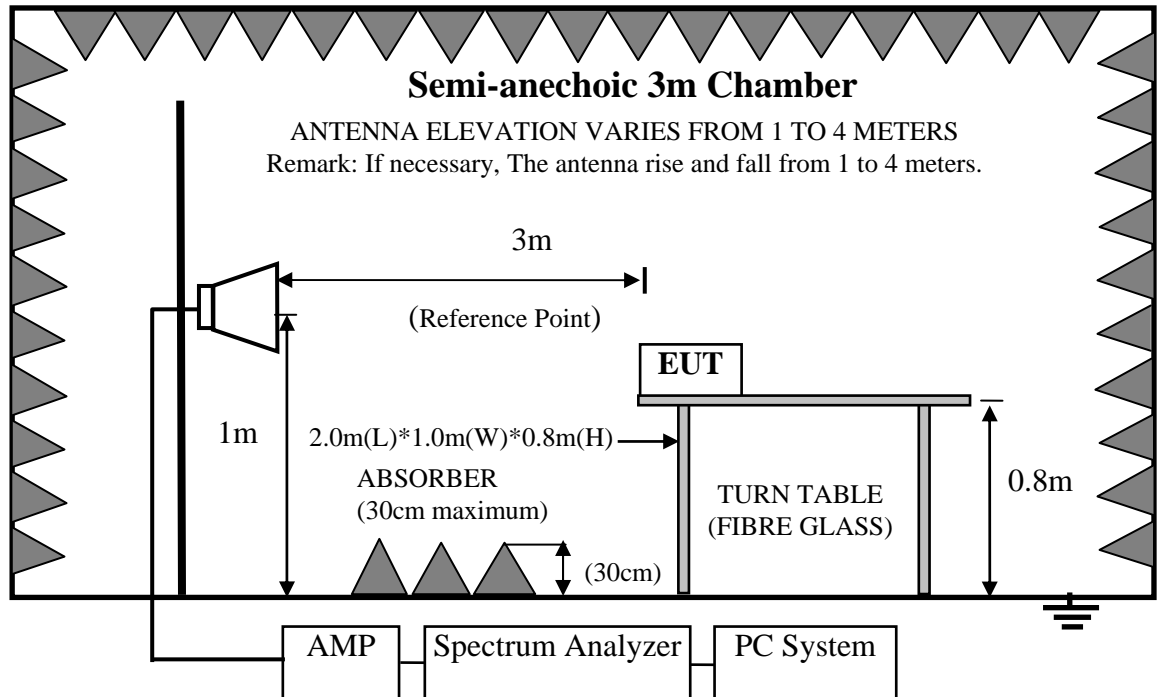
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	3#Chamber	AUDIX	N/A	N/A	Nov.24, 13	1 Year
2	Spectrum Analyzer	Agilent	E4407B	MY41440292	May.08, 13	1 Year
3	Horn Antenna	EMCO	3115	9607-4877	Aug.27, 13	1 Year
4	Amplifier	Agilent	8449B	3008A00863	May.08, 13	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX106	77977/6	May.08, 13	1 Year
6	RF Cable	Hubersuhner	SUCOFLEX106	28616/2	May.08, 13	1 Year
7	MPEG2 Measurement Generator	ROHDE&SCHWARZ	DVG	100319	Dec.11, 13	1 Year
8	TV Transmitter	ROHDE&SCHWARZ	SFQ	100521	May.08, 13	1 Year
9	Pattern Generator	Philips	PM5418	LO625020	May.08, 13	1 Year

4.2. Block Diagram of Test Setup

4.2.1. In 3m Anechoic Chamber Test Setup Diagram for 30MHz~1000MHz



4.2.2. In 3m Anechoic Chamber Test Setup Diagram for 1000MHz~18000MHz



4.3. Radiated Emission Limit

All emanations from a devices or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

Frequency MHz	Distance (Meters)	Field Strengths Limits dB(μV)/m
30 ~ 88	3	40.0
88 ~ 216	3	43.5
216 ~ 960	3	46.0
960 ~ 1000	3	54.0
Above 1000	3	80(Peak) 60(Average)

- Note: (1) Emission level = Antenna Factor + Cable Loss + Reading
 Emission level = Antenna Factor - Amp Factor + Cable Loss + Reading
 (above 1000MHz)
 (2) The tighter limit shall apply at the edge between two frequency bands.
 (3) Distance refers to the distance in meters between the test antenna and the centre of the EUT.

4.4. EUT 's Configuration during Compliance Measurement

The configurations of EUT are listed in Section 3.4.

4.5. Operating Condition of EUT

4.5.1. Setup the EUT and simulator as shown as Section 4.2.

4.5.2. Turned on the power of all equipment.

4.5.3. Let the EUT worked in test mode (LAN Mode/WLAN Mode/Audio In) and test it.

4.6. Test Procedure

The EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber. An antenna was located 3m from the EUT on an adjustable mast. A pre-scan was first performed in order to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4: 2009 on Radiated Emission test.

The bandwidth setting on the test receiver (R&S TEST RECEIVER ESVS10) is 120 kHz.

The resolution bandwidth of the Spectrum Analyzer E4407B was set at 1MHz. (For above 1GHz)

The frequency range from 30MHz to 1000MHz was pre-scanned with a peak detector and all final readings of measurement from Test Receiver are Quasi-Peak values. The frequency range from 1GHz to 18GHz was checked with peak and average detector, measurement distance is 3m in 10m chamber.

For frequency range below 30MHz the Loop antenna was used at 10m measurement distance with antenna heights of 1m and antenna loop front and side faced to the EUT. The axis of the antenna was rotated to maximize the emission. A CISPR quasi-peak

detector is used for measurements below 30MHz and RBW/VBW is 9kHz/30kHz.

Finally, selected operating situations at Anechoic Chamber measurement, all the test results are listed in section 4.7.

4.7. Radiated Emission Measurement Result

PASS. (All emissions not reported below are too low against the prescribed limits.)

The EUT with the following test modes were tested and selected (No.1~3) to read Q.P values, all the test results are listed in next pages.

EUT: Wireless Speaker System Model No. : SC-ALL3

Test Date: Mar.25, 2014 Temperature: 24 Humidity: 65%

The details of test modes are as follows :

No.	Test Mode	Reference Test Data No.	
		Horizontal	Vertical
1.	LAN Mode	#1	#2
2.	WLAN Mode	#4	#3
3.	Audio In	#6	#5

(Worst test mode)

For frequency range 1GHz~18GHz

The EUT with below test mode 1~2 was measured within Anechoic Chamber and the test results listed in next pages

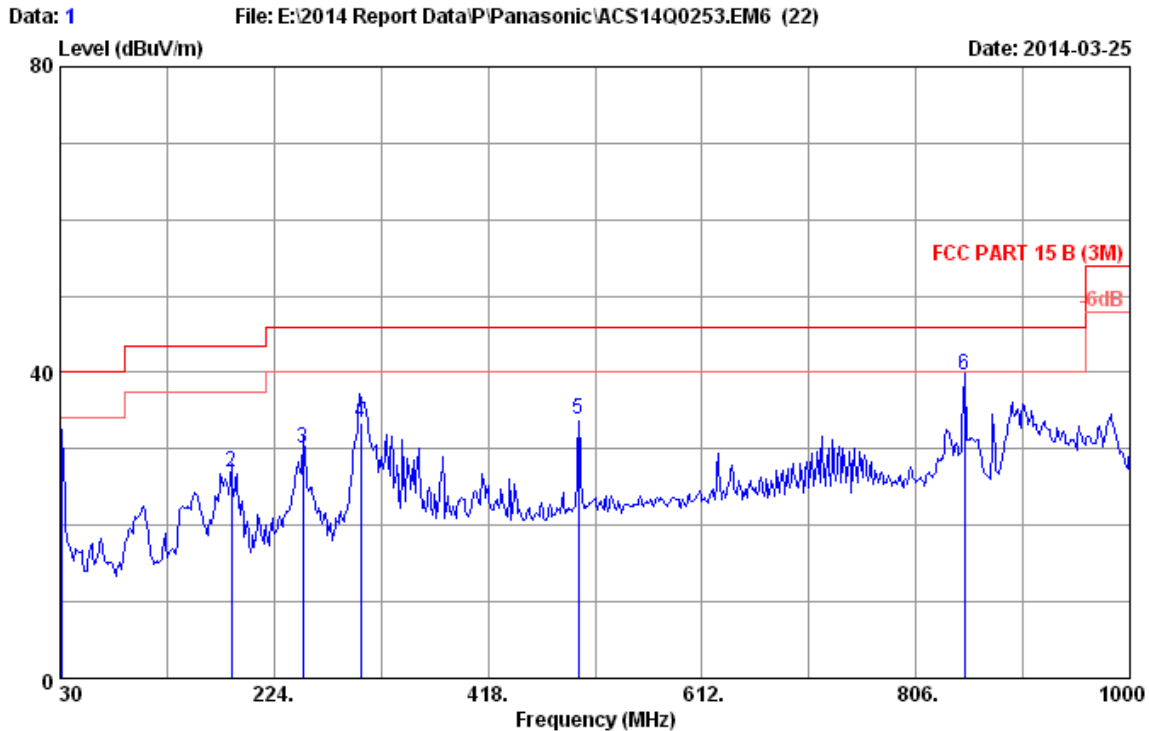
EUT: Wireless Speaker System Model No. : SC-ALL3

Test Date: Mar.29, 2014 Temperature: 24 Humidity: 56%

The details of test modes are as follows :

No.	Test Mode	Reference Test Data No.	
		Horizontal	Vertical
1.	LAN Mode	#17, #18	#15, #16
2.	WLAN Mode	#13, #14	#11, #12
3.	Audio In	#19, #20	#21, #22

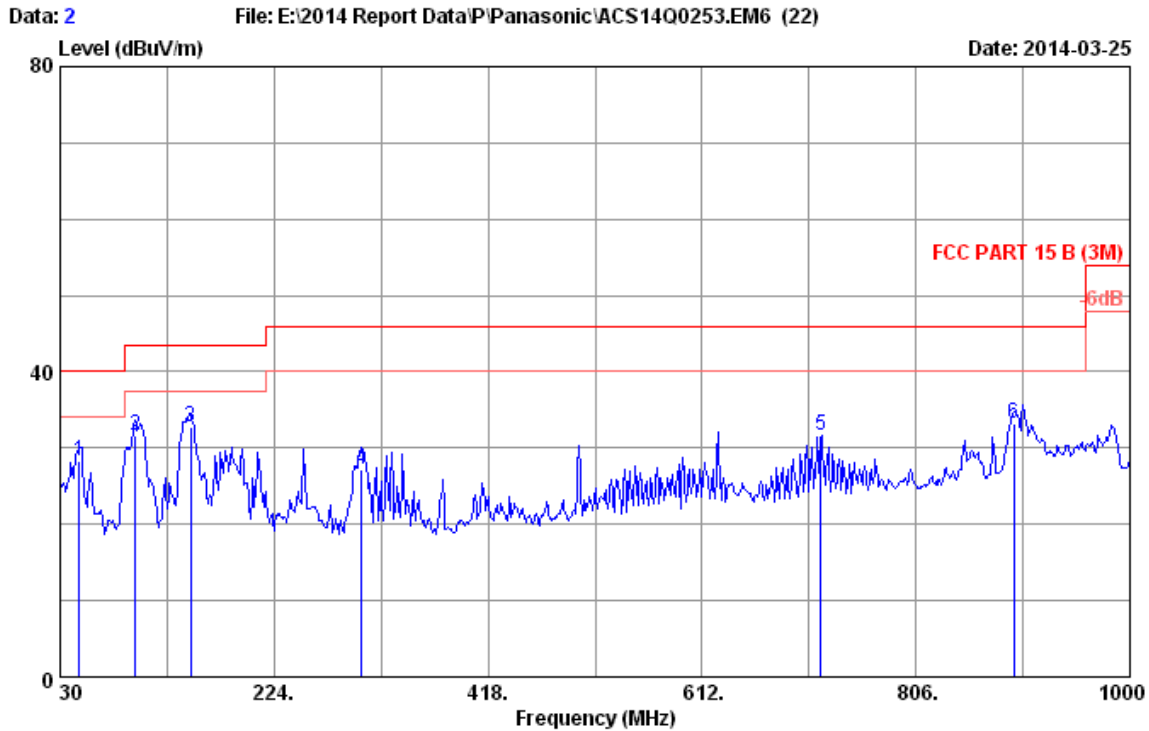
(Worst test mode)



Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m 2013 CBL6112D 35375 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B (3M)
 Env. / Ins. : 24°C/65% Engineer : Jolly_Xu
 EUT : Wireless Speaker System M/N:SC-ALL3
 Power rating : AC 120V/60Hz
 Test Mode : LAN Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.480	19.14	0.86	11.09	31.09	40.00	8.91	QP
2	185.020	9.60	1.73	15.60	26.93	43.50	16.57	QP
3	250.000	13.10	1.98	15.00	30.08	46.00	15.92	QP
4	302.790	14.06	2.18	17.09	33.33	46.00	12.67	QP
5	500.000	18.00	2.75	13.10	33.85	46.00	12.15	QP
6	850.000	21.30	3.77	14.60	39.67	46.00	6.33	QP

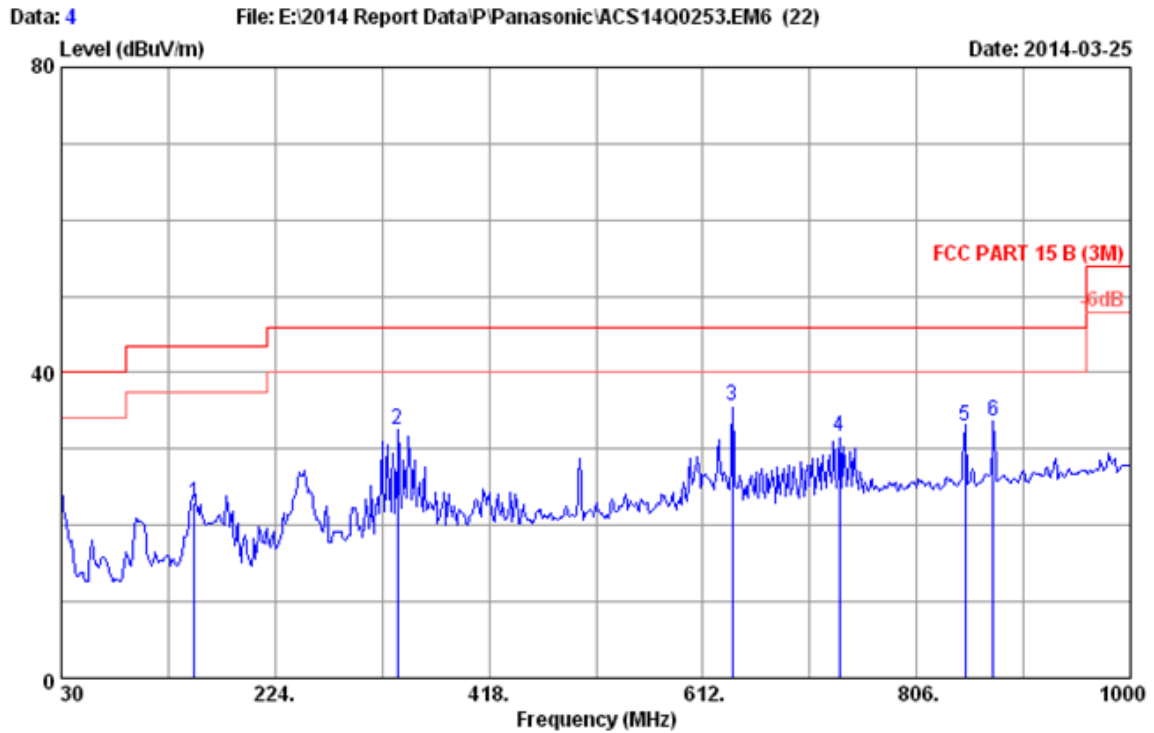
- Remarks:
1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.
 3. The worst emission was detected at 850.000 MHz with corrected signal level of 39.67 dB μ V/m (Limit is 46.00 dB μ V/m) when the antenna was at horizontal polarization and at 1.0m high and the turn table was at 310°.
 4. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.



Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2013 CBL6112D 35375 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B (3M)
 Env. / Ins. : 24°C/65% Engineer : Jolly_Xu
 EUT : Wireless Speaker System M/N:SC-ALL3
 Power rating : AC 120V/60Hz
 Test Mode : LAN Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	47.420	10.16	1.14	16.90	28.20	40.00	11.80	QP
2	98.310	10.95	1.40	19.40	31.75	43.50	11.75	QP
3	148.110	11.39	1.59	19.81	32.79	43.50	10.71	QP
4	303.025	14.06	2.18	11.00	27.24	46.00	18.76	QP
5	720.023	19.90	3.38	8.40	31.68	46.00	14.32	QP
6	895.022	21.50	3.91	7.70	33.11	46.00	12.89	QP

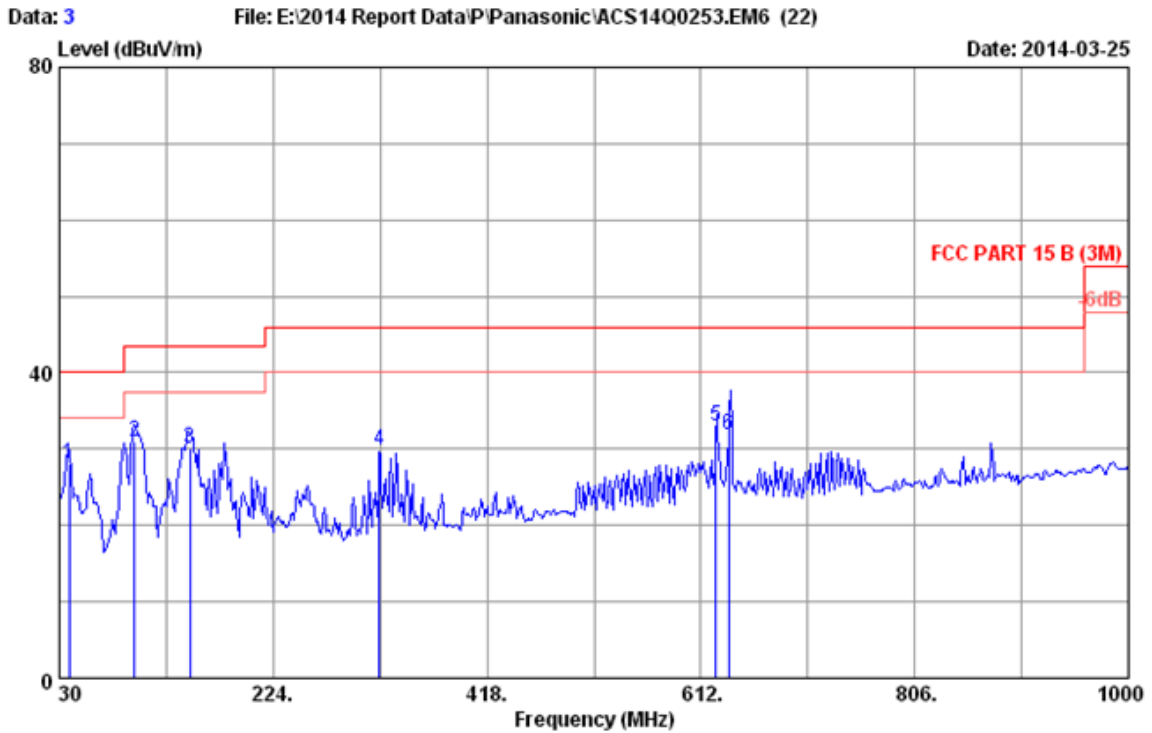
- Remarks:
1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.
 3. The worst emission was detected at 148.110 MHz with corrected signal level of 32.79 dBμV/m (Limit is 43.50 dBμV/m) when the antenna was at vertical polarization and at 1.0m high and the turn table was at 45°.
 4. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.



Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 2013 CBL6112D 35375 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B (3M)
 Env. / Ins. : 24°C/65% Engineer : Jolly_Xu
 EUT : Wireless Speaker System M/N:SC-ALL3
 Power rating : AC 120V/60Hz
 Test Mode : WLAN Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	150.530	11.25	1.60	10.20	23.05	43.50	20.45	QP
2	335.020	14.80	2.27	15.50	32.57	46.00	13.43	QP
3	638.940	19.60	3.15	12.90	35.65	46.00	10.35	QP
4	735.660	20.21	3.43	8.10	31.74	46.00	14.26	QP
5	850.011	21.30	3.77	7.90	32.97	46.00	13.03	QP
6	875.452	21.60	3.85	8.20	33.65	46.00	12.35	QP

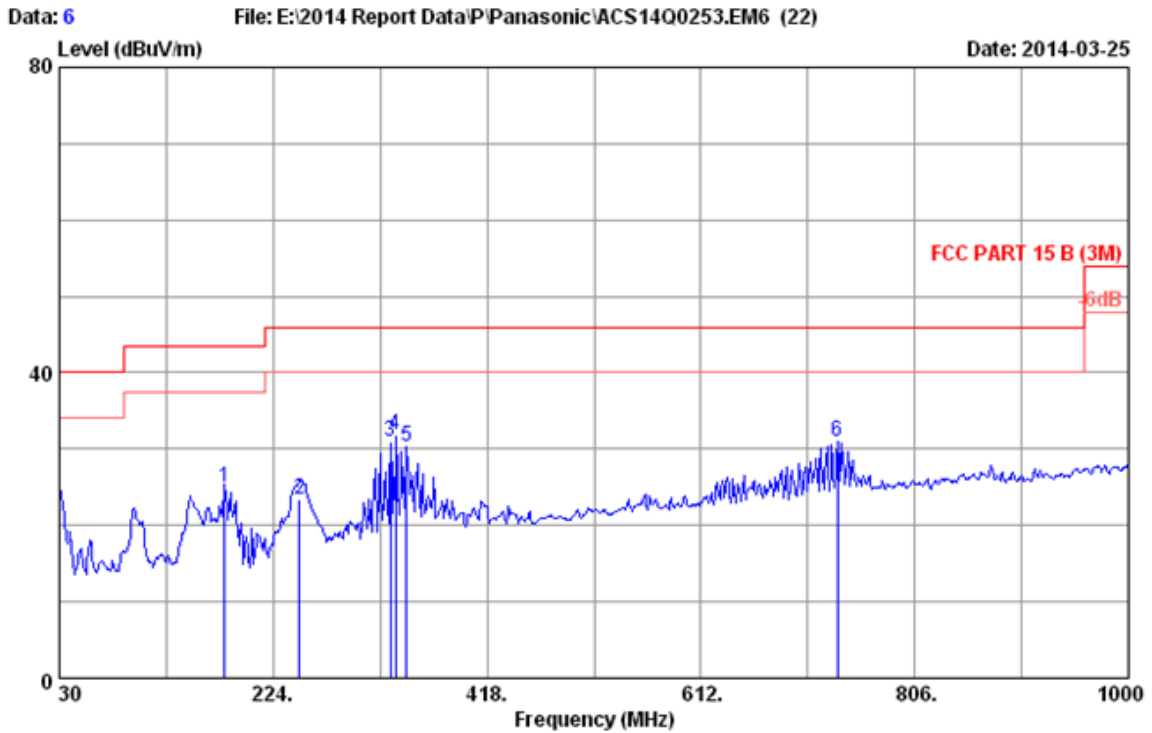
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 3
 Dis. / Ant. : 3m 2013 CBL6112D 35375 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B (3M)
 Env. / Ins. : 24°C/65% Engineer : Jolly_Xu
 EUT : Wireless Speaker System M/N:SC-ALL3
 Power rating : AC 120V/60Hz
 Test Mode : WLAN Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	38.676	14.83	0.99	12.29	28.11	40.00	11.89	QP
2	98.310	10.95	1.40	18.70	31.05	43.50	12.45	QP
3	148.025	11.40	1.59	17.10	30.09	43.50	13.41	QP
4	320.035	14.40	2.23	13.20	29.83	46.00	16.17	QP
5	625.636	19.51	3.11	10.40	33.02	46.00	12.98	QP
6	637.550	19.60	3.14	9.20	31.94	46.00	14.06	QP

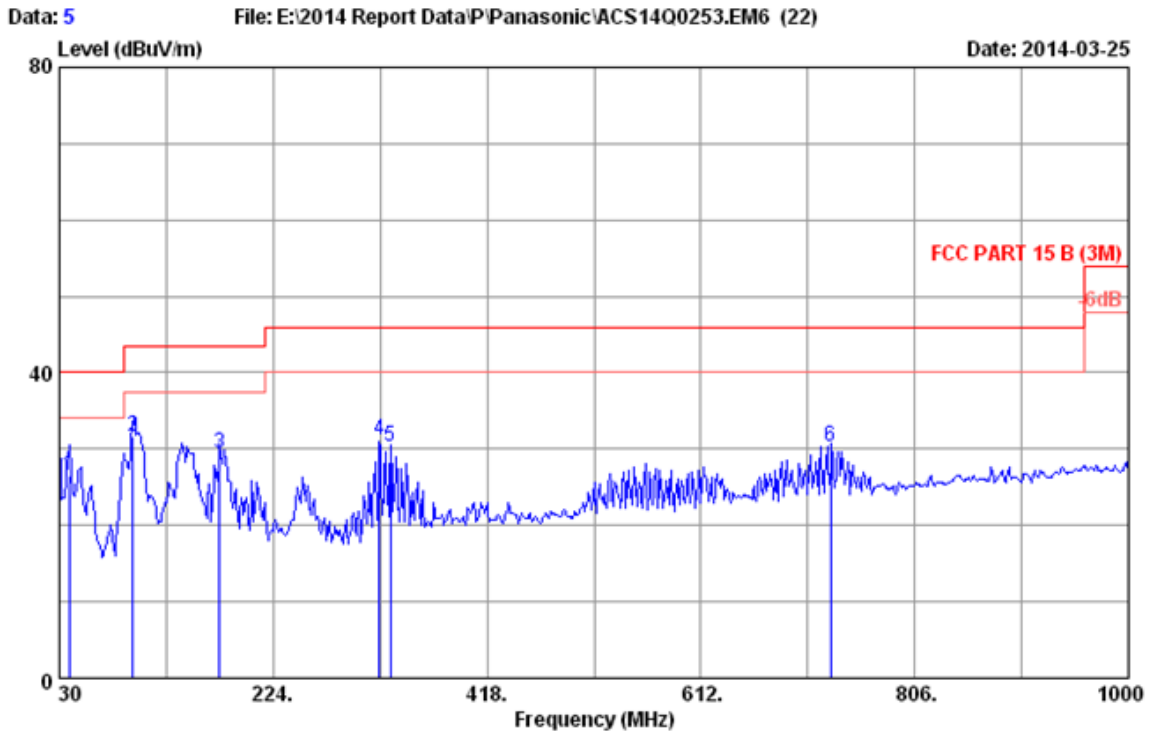
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 6
 Dis. / Ant. : 3m 2013 CBL6112D 35375 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B (3M)
 Env. / Ins. : 24°C/65% Engineer : Jolly_Xu
 EUT : Wireless Speaker System M/N:SC-ALL3
 Power rating : AC 120V/60Hz
 Test Mode : Audio In

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	180.038	9.70	1.71	13.50	24.91	43.50	18.59	QP
2	248.019	12.90	1.97	8.60	23.47	46.00	22.53	QP
3	330.035	14.70	2.26	14.00	30.96	46.00	15.04	QP
4	335.000	14.80	2.27	14.70	31.77	46.00	14.23	QP
5	345.022	15.10	2.30	12.90	30.30	46.00	15.70	QP
6	735.690	20.21	3.43	7.40	31.04	46.00	14.96	QP

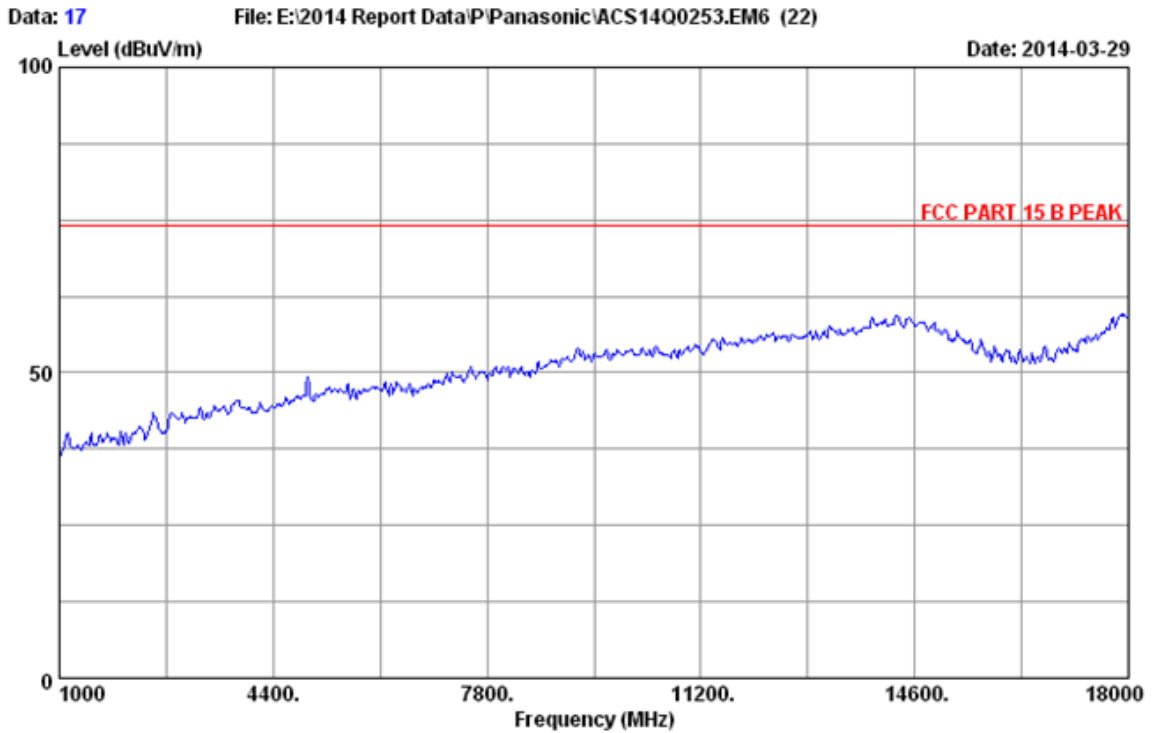
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



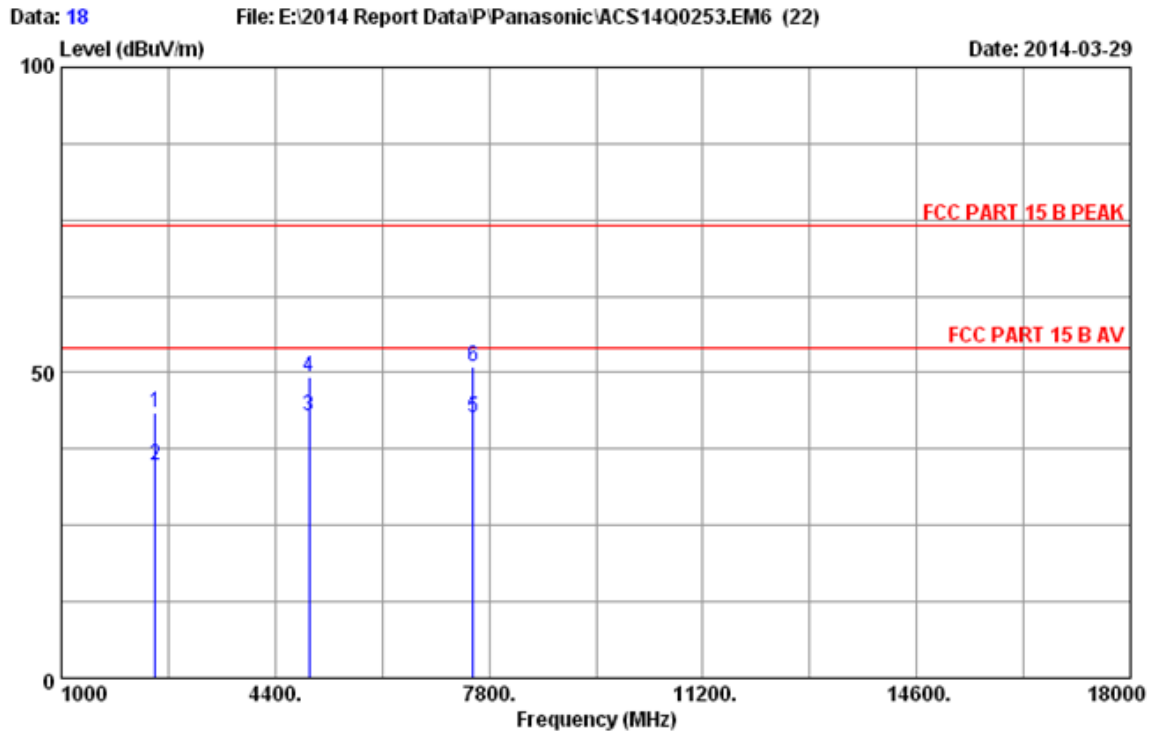
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 Dis. / Ant. : 3m 2013 CBL6112D 35375 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B (3M)
 Env. / Ins. : 24°C/65% Engineer : Jolly_Xu
 EUT : Wireless Speaker System M/N:SC-ALL3
 Power rating : AC 120V/60Hz
 Test Mode : Audio In

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	38.820	14.75	0.99	10.80	26.54	40.00	13.46	QP
2	96.430	10.66	1.39	19.61	31.66	43.50	11.84	QP
3	175.022	9.95	1.70	17.79	29.44	43.50	14.06	QP
4	320.056	14.40	2.23	14.60	31.23	46.00	14.77	QP
5	330.076	14.70	2.26	13.40	30.36	46.00	15.64	QP
6	730.022	20.00	3.41	6.80	30.21	46.00	15.79	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



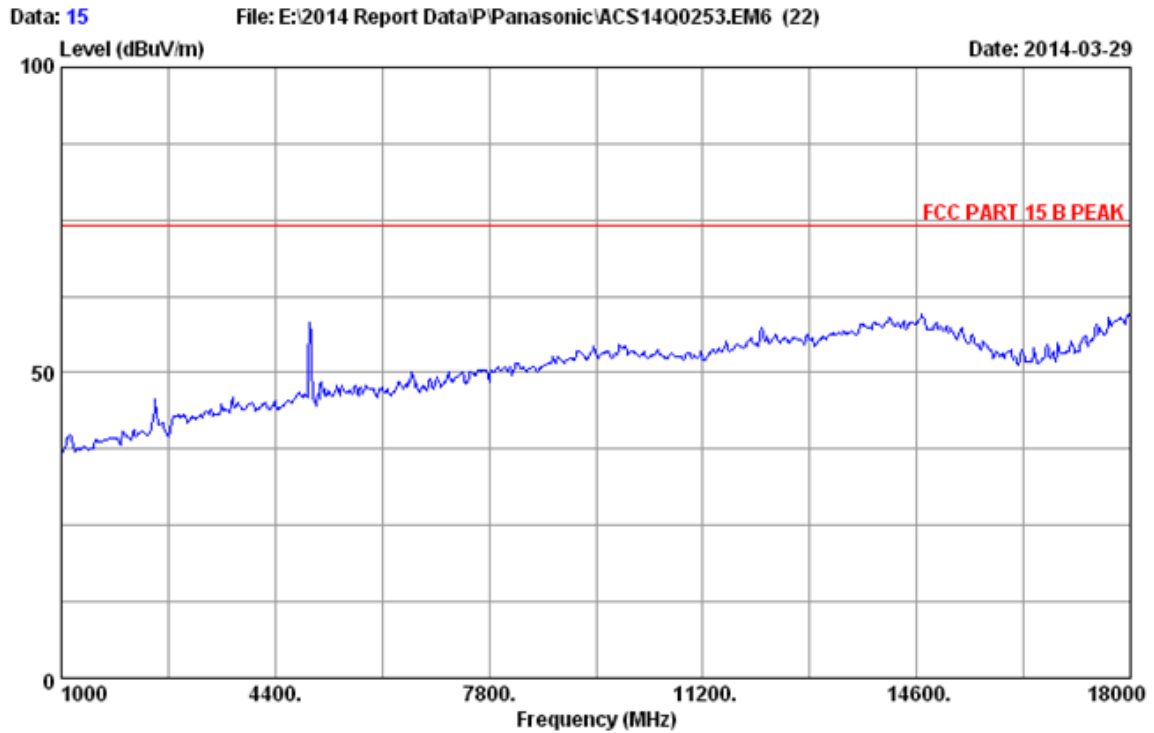
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Dis. / Ant.	: 3m 2013 3115 (4877)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15 B PEAK		
Env. / Ins.	: 24°C/56%	Engineer	: Jolly_Xu
EUT	: Wireless Speaker System	M/N:	SC-ALL3
Power Rating	: AC 120V/60Hz		
Test Mode	: LAN Mode		



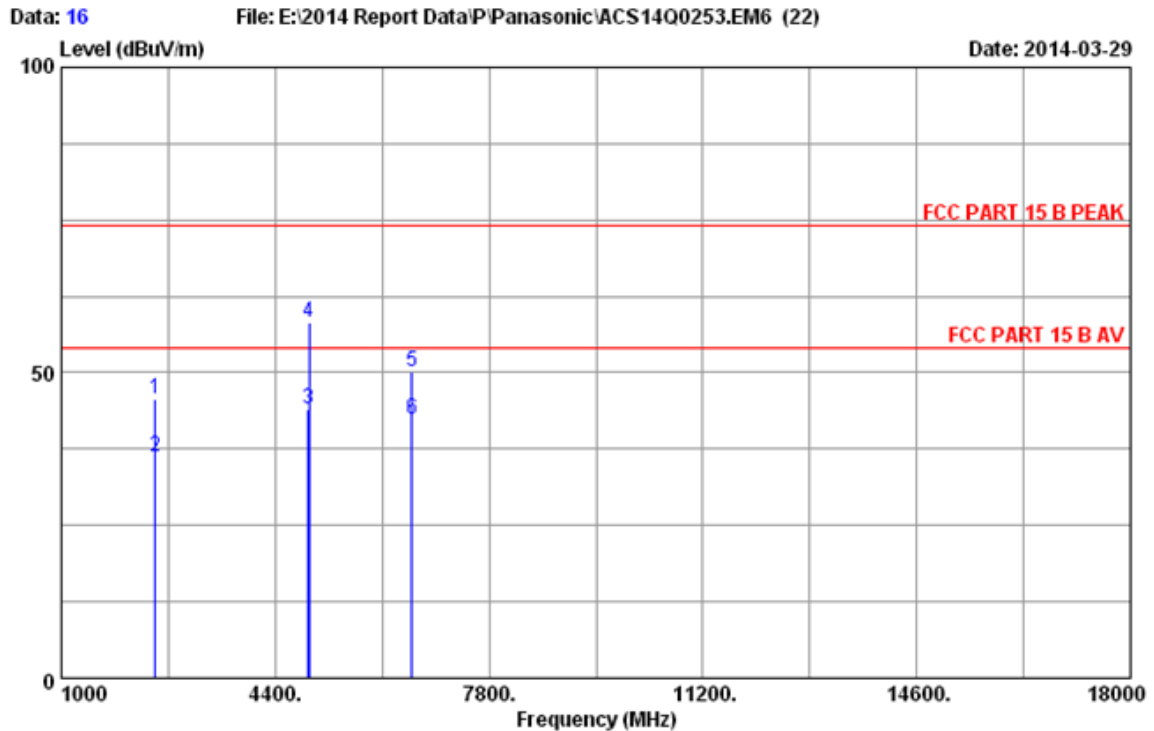
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 Limit : FCC PART 15 B PEAK
 Env. / Ins. : 24°C/56% Engineer : Jolly_Xu
 EUT : Wireless Speaker System M/N:SC-ALL3
 Power Rating : AC 120V/60Hz
 Test Mode : LAN Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2496.445	27.49	2.86	34.73	47.91	43.53	74.00	30.47	Peak
2	2497.496	27.49	2.86	34.73	39.13	34.75	54.00	19.25	Average
3	4932.540	32.82	4.19	34.64	40.61	42.98	54.00	11.02	Average
4	4944.000	32.83	4.20	34.64	46.86	49.25	74.00	24.75	Peak
5	7544.520	36.05	5.70	34.80	35.68	42.63	54.00	11.37	Average
6	7545.632	36.05	5.70	34.80	43.99	50.94	74.00	23.06	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



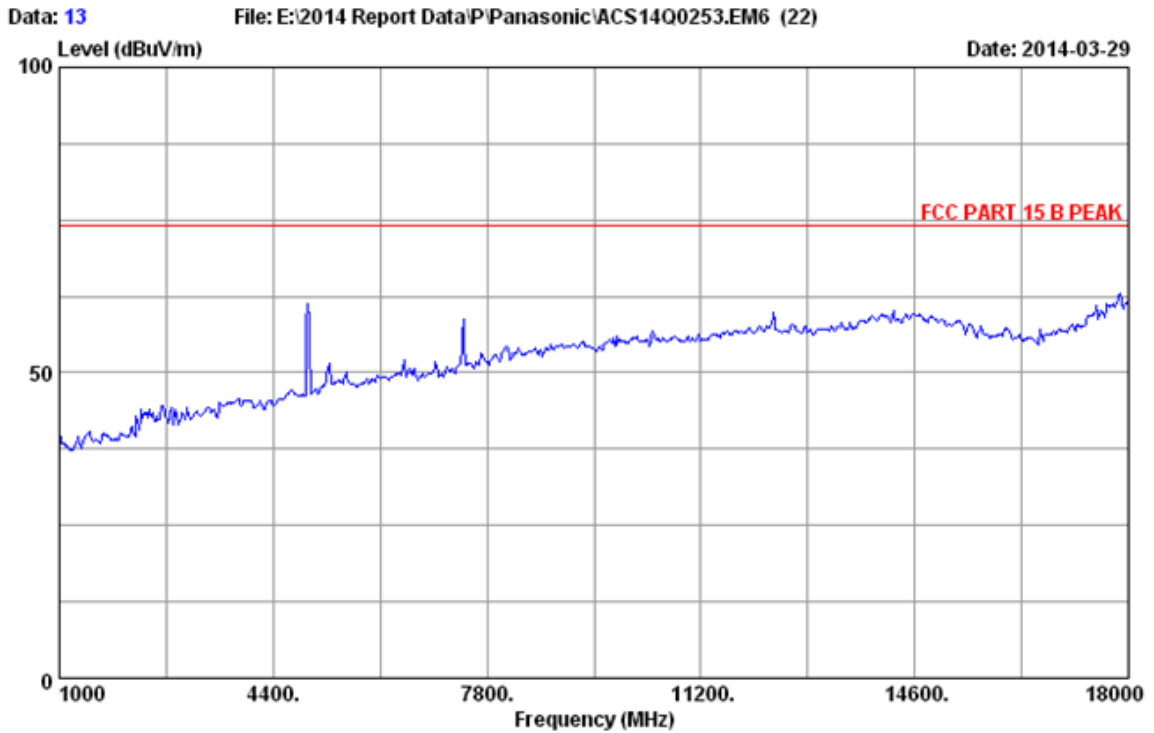
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Dis. / Ant. : 3m 2013 3115 (4877) Ant. pol. : VERTICAL
Limit : FCC PART 15 B PEAK
Env. / Ins. : 24°C/56% Engineer : Jolly_Xu
EUT : Wireless Speaker System M/N:SC-ALL3
Power Rating : AC 120V/60Hz
Test Mode : LAN Mode



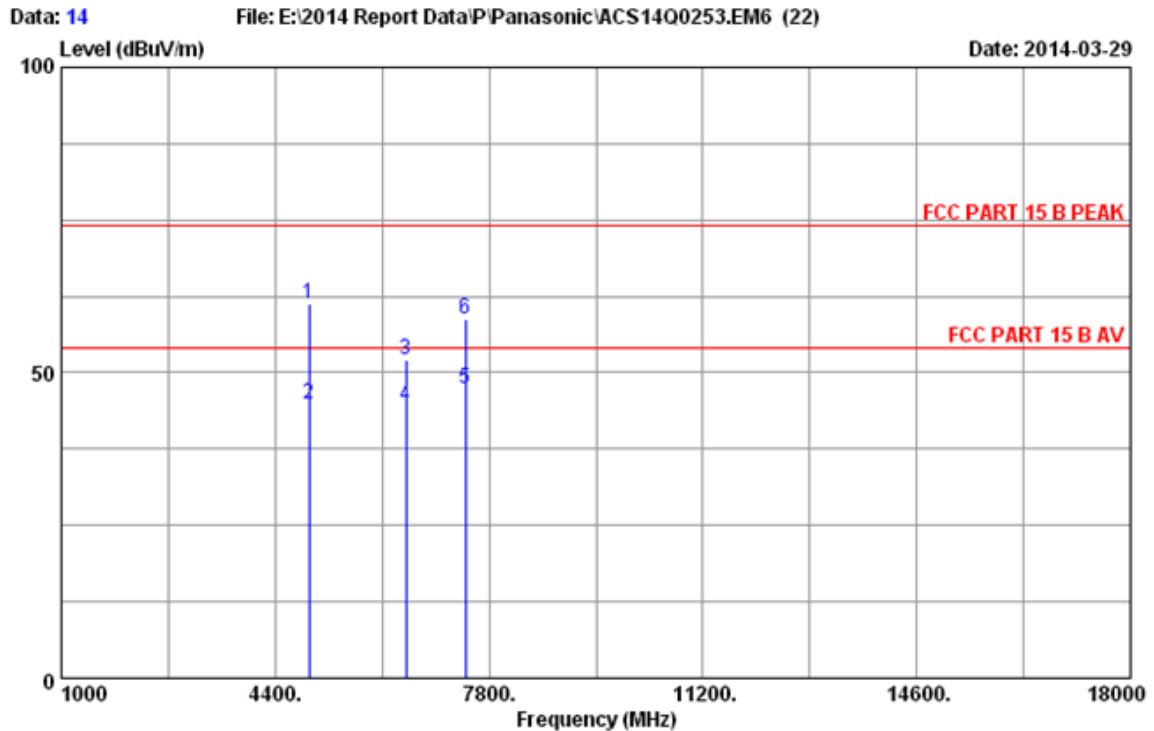
Site no. : 3m Chamber Data no. : 16
 Dis. / Ant. : 3m 2013 3115 (4877) Ant. pol. : VERTICAL
 Limit : FCC PART 15 B PEAK
 Env. / Ins. : 24°C/56% Engineer : Jolly_Xu
 EUT : Wireless Speaker System M/N:SC-ALL3
 Power Rating : AC 120V/60Hz
 Test Mode : LAN Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2496.430	27.49	2.86	34.73	50.01	45.63	74.00	28.37	Peak
2	2497.388	27.49	2.86	34.73	40.64	36.26	54.00	17.74	Average
3	4932.080	32.82	4.19	34.64	41.70	44.07	54.00	9.93	Average
4	4944.340	32.83	4.20	34.64	55.79	58.18	74.00	15.82	Peak
5	6576.330	35.13	5.29	34.80	44.60	50.22	74.00	23.78	Peak
6	6577.850	35.13	5.29	34.80	36.66	42.28	54.00	11.72	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



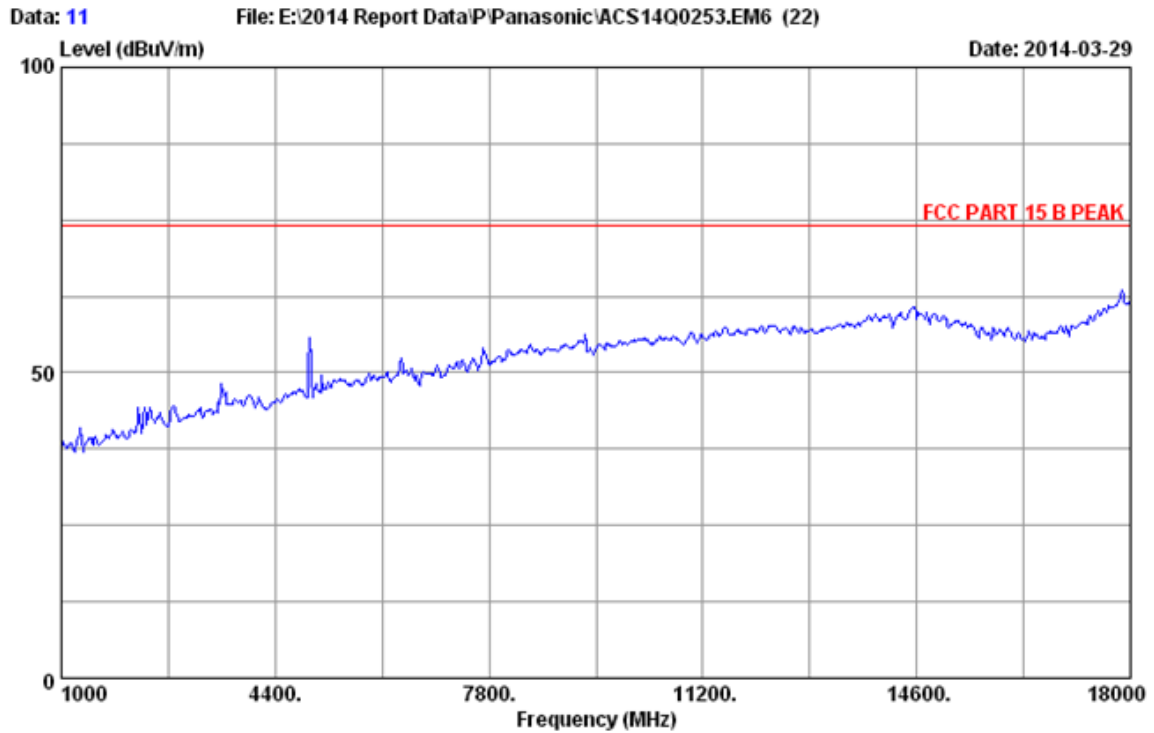
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Dis. / Ant.	: 3m 2013 3115 (4877)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15 B PEAK		
Env. / Ins.	: 24°C/56%	Engineer	: Jolly_Xu
EUT	: Wireless Speaker System	M/N:	SC-ALL3
Power Rating	: AC 120V/60Hz		
Test Mode	: WLAN Mode		



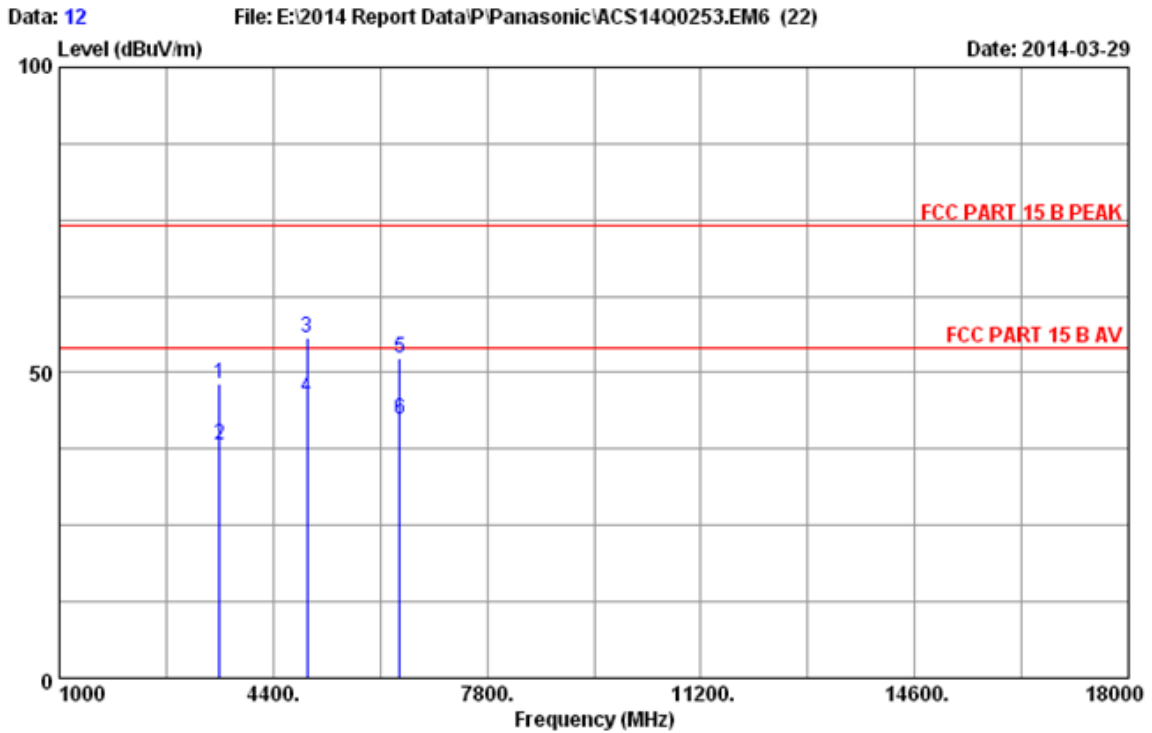
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 Limit : FCC PART 15 B PEAK
 Env. / Ins. : 24°C/56% Engineer : Jolly_Xu
 EUT : Wireless Speaker System M/N:SC-ALL3
 Power Rating : AC 120V/60Hz
 Test Mode : WLAN Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4944.220	32.83	4.20	34.64	59.02	61.41	74.00	12.59	Peak
2	4945.160	32.83	4.20	34.64	42.37	44.76	54.00	9.24	Average
3	6474.240	35.05	5.23	34.80	46.59	52.07	74.00	21.93	Peak
4	6475.530	35.06	5.23	34.80	38.99	44.48	54.00	9.52	Average
5	7425.560	35.90	5.65	34.80	40.73	47.48	54.00	6.52	Average
6	7426.190	35.90	5.65	34.80	52.02	58.77	74.00	15.23	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



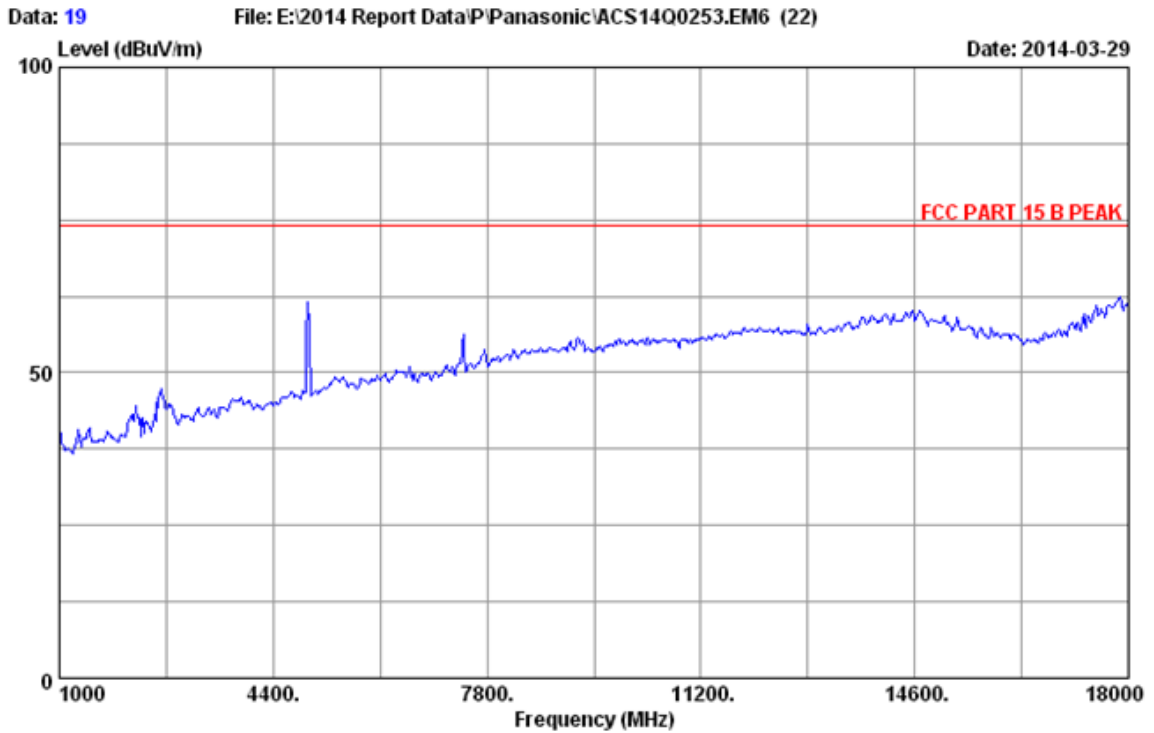
Site no.	: 3m Chamber	Data no.	: 11
Dis. / Ant.	: 3m 2013 3115 (4877)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15 B PEAK		
Env. / Ins.	: 24°C/56%	Engineer	: Jolly_Xu
EUT	: Wireless Speaker System	M/N:	SC-ALL3
Power Rating	: AC 120V/60Hz		
Test Mode	: WLAN Mode		



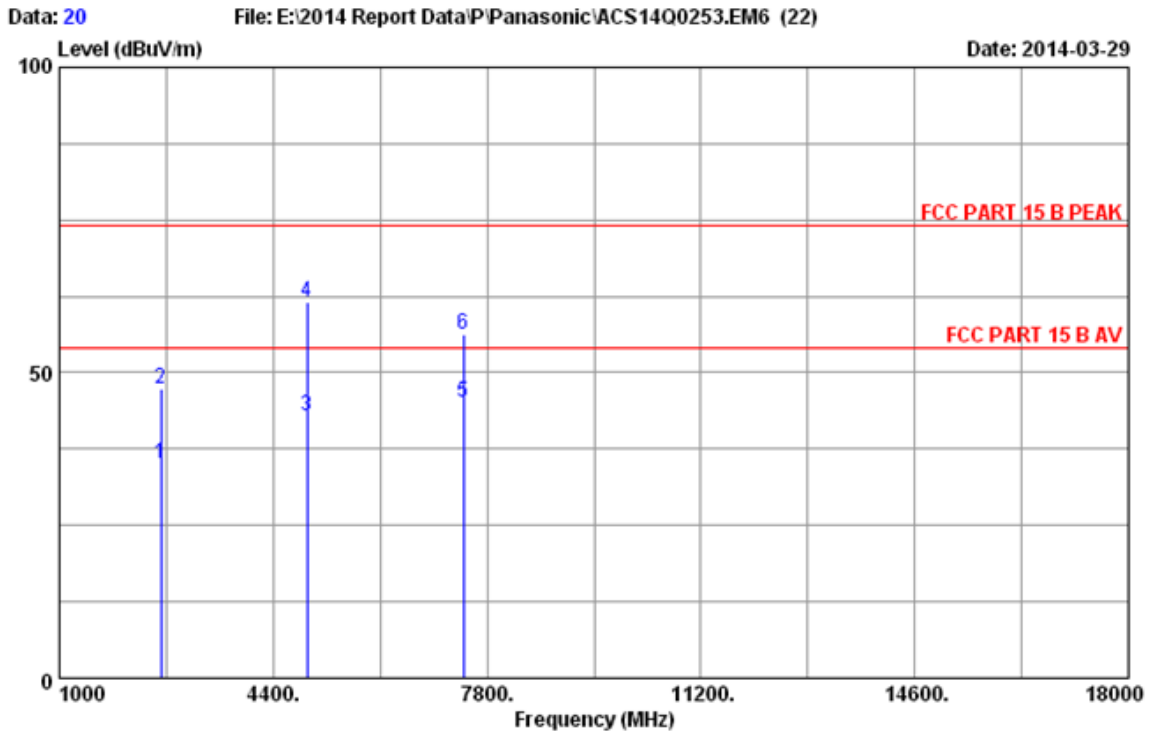
Site no. : 3m Chamber Data no. : 12
 Dis. / Ant. : 3m 2013 3115 (4877) Ant. pol. : VERTICAL
 Limit : FCC PART 15 B PEAK
 Env. / Ins. : 24°C/56% Engineer : Jolly_Xu
 EUT : Wireless Speaker System M/N:SC-ALL3
 Power Rating : AC 120V/60Hz
 Test Mode : WLAN Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	3550.390	31.02	3.46	34.57	48.24	48.15	74.00	25.85	Peak
2	3552.041	31.02	3.47	34.57	38.27	38.19	54.00	15.81	Average
3	4944.240	32.83	4.20	34.64	53.20	55.59	74.00	18.41	Peak
4	4945.360	32.83	4.20	34.64	43.63	46.02	54.00	7.98	Average
5	6406.330	34.93	5.20	34.80	47.02	52.35	74.00	21.65	Peak
6	6407.520	34.93	5.20	34.80	36.90	42.23	54.00	11.77	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



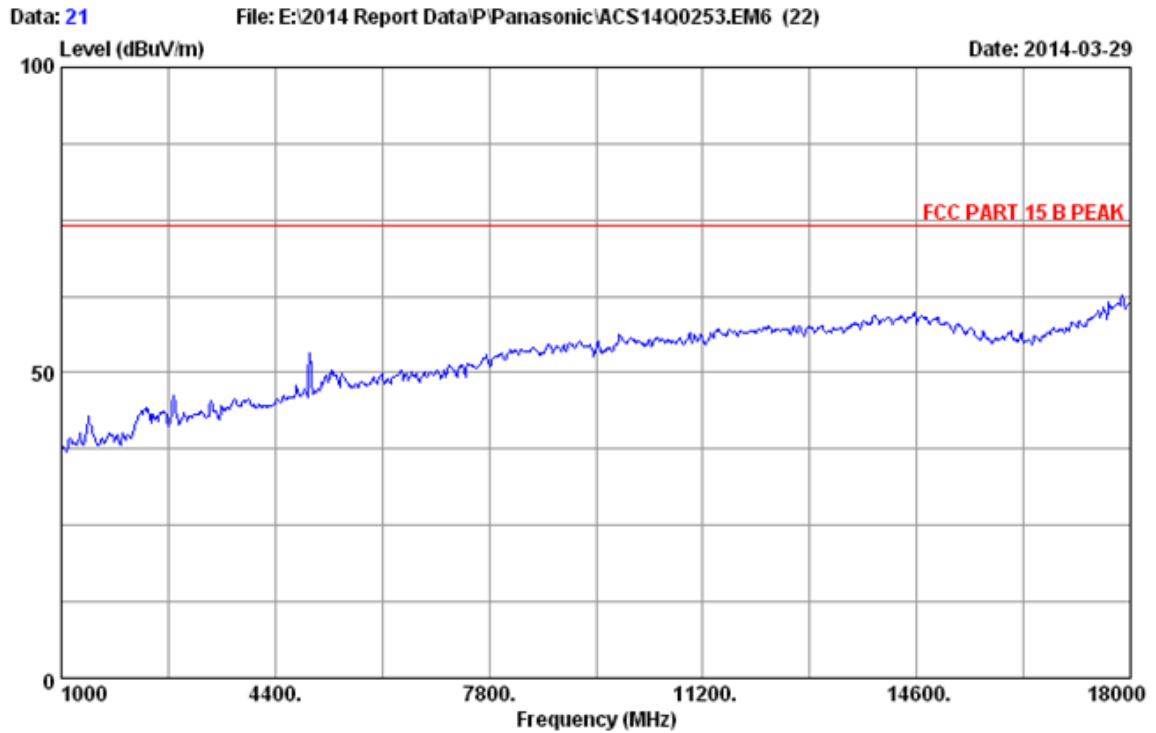
Site no.	: 3m Chamber	Data no.	: 19
Dis. / Ant.	: 3m 2013 3115 (4877)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15 B PEAK		
Env. / Ins.	: 24°C/56%	Engineer	: Jolly_Xu
EUT	: Wireless Speaker System	M/N:	SC-ALL3
Power Rating	: AC 120V/60Hz		
Test Mode	: Audio In		



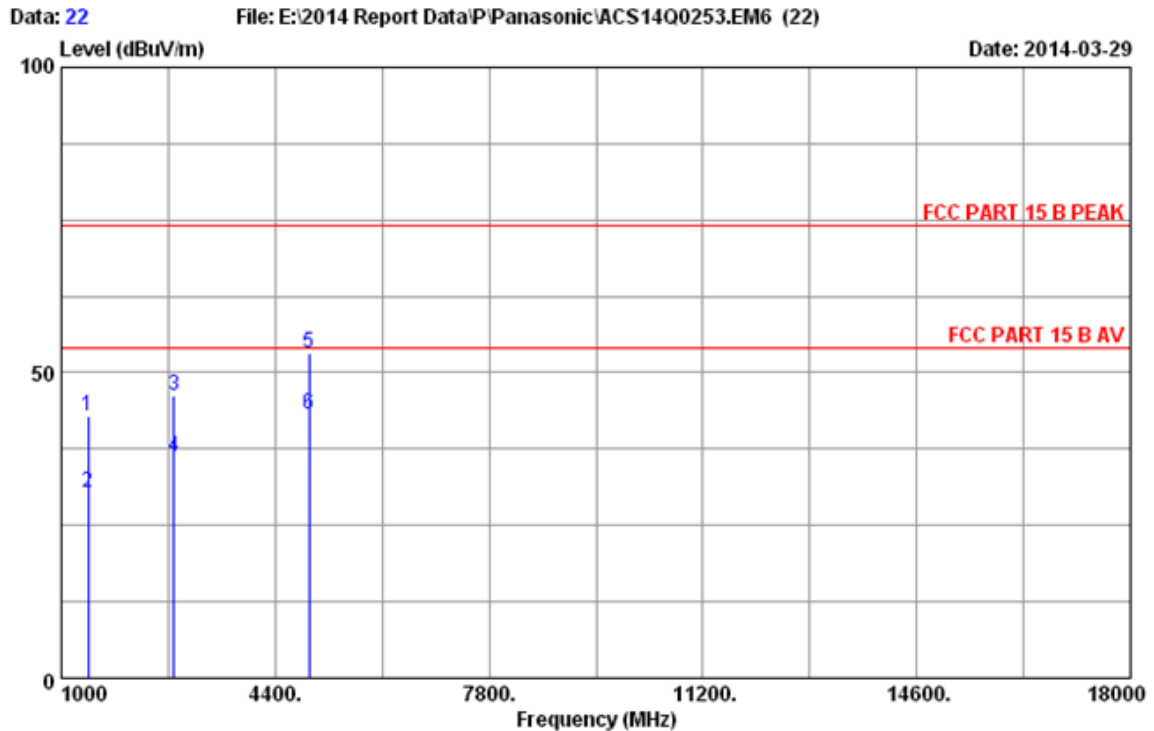
Site no. : 3m Chamber Data no. : 20
 Dis. / Ant. : 3m 2013 3115 (4877) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B PEAK
 Env. / Ins. : 24°C/56% Engineer : Jolly_Xu
 EUT : Wireless Speaker System M/N:SC-ALL3
 Power Rating : AC 120V/60Hz
 Test Mode : Audio In

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2615.110	27.82	2.90	34.71	39.13	35.14	54.00	18.86	Average
2	2615.110	27.82	2.90	34.71	51.48	47.49	74.00	26.51	Peak
3	4944.320	32.83	4.20	34.64	40.55	42.94	54.00	11.06	Average
4	4944.320	32.83	4.20	34.64	59.28	61.67	74.00	12.33	Peak
5	7424.860	35.89	5.65	34.80	38.47	45.21	54.00	8.79	Average
6	7425.630	35.90	5.65	34.80	49.59	56.34	74.00	17.66	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no.	: 3m Chamber	Data no.	: 21
Dis. / Ant.	: 3m 2013 3115 (4877)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15 B PEAK		
Env. / Ins.	: 24°C/56%	Engineer	: Jolly_Xu
EUT	: Wireless Speaker System	M/N:	SC-ALL3
Power Rating	: AC 120V/60Hz		
Test Mode	: Audio In		



Site no. : 3m Chamber Data no. : 22
 Dis. / Ant. : 3m 2013 3115 (4877) Ant. pol. : VERTICAL
 Limit : FCC PART 15 B PEAK
 Env. / Ins. : 24°C/56% Engineer : Jolly_Xu
 EUT : Wireless Speaker System M/N:SC-ALL3
 Power Rating : AC 120V/60Hz
 Test Mode : Audio In

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1425.245	25.27	1.80	35.66	51.62	43.03	74.00	30.97	Peak
2	1426.380	25.28	1.80	35.66	38.96	30.38	54.00	23.62	Average
3	2785.340	28.30	2.96	34.68	49.55	46.13	74.00	27.87	Peak
4	2786.490	28.30	2.96	34.68	39.76	36.34	54.00	17.66	Average
5	4944.250	32.83	4.20	34.64	50.92	53.31	74.00	20.69	Peak
6	4945.640	32.83	4.20	34.64	40.72	43.11	54.00	10.89	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

5. DEVIATION TO TEST SPECIFICATIONS

[NONE]