



FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

TCL Technoly Electronics (Huizhou) Co., Ltd.

HOME THEATRE SYSTEM

Brand Name	Model No.
Sony	HT-XT100

FCC ID: ZVASB000016

Prepared for : TCL Technoly Electronics (Huizhou) Co., Ltd.
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TEST REPORT CERTIFICATION

Applicant : TCL Technoly Electronics (Huizhou) Co., Ltd.
 Manufacturer : Sony Corporation
 EUT Description : HOME THEATRE SYSTEM
 FCC ID : ZVASB000016

(A) MODEL NO.& BRAND NAME :	Brand Name	Model No.
	Sony	HT-XT100

(B) SERIAL NO. : N/A
 (C) TEST VOLTAGE : AC 120V/60Hz

Tested for comply with:
 FCC Rules and Regulations Part 15 Subpart C: 2013
 Test procedure used:
 ANSI C63.10: 2009

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. To confirm comply with all the FCC Part 15 Subpart C requirements. 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. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC and IC requirements. This report contains data that are not covered by the NVLAP accreditation.

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 : Sep.11~22, 2014 Report of date: Oct.23, 2014

Prepared by : Kayli He Reviewed by : [Signature]
 Kayli He / Assistant Manager Sunny Lu / Assistant Manager
 Audix Technology (Shenzhen) Co., Ltd.

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 10.22

Approved & Authorized Signer : David Jin
 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
Power Line Conducted Emission Test	FCC Part 15 : 15.207 ANSI C63.10 :2009	PASS
Radiated Emission Test	FCC Part 15 : 15.209 FCC Part 15 : 15.247(d) ANSI C63.10 :2009	PASS
Conducted Spurious Emissions	FCC Part 15: 15.247(a)(1) ANSI C63.10 :2009	PASS
Carrier Frequency Separation Test	FCC Part 15: 15.247(a)(1) ANSI C63.10 :2009	PASS
20dB Bandwidth Test	FCC Part 15: 15.215 ANSI C63.10 :2009	PASS
Number Of Hopping Frequency Test	FCC Part 15: 15.247(a)(1)(iii) ANSI C63.10 :2009	PASS
Dwell Time Test	FCC Part 15: 15.247(a)(1)(iii) ANSI C63.10 :2009	PASS
Maximum Peak Output Power Test	FCC Part 15 : 15.247(b)(1)\ ANSI C63.10 :2009	PASS
Band Edge Compliance Test	FCC Part 15 : 15.247(d) ANSI C63.10 :2009	PASS

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Product Name : HOME THEATRE SYSTEM

Model Number & Brand Name :	Brand Name	Model No.
	Sony	HT-XT100

IC ID : ZVASB000016

Radio : Bluetooth V3.0+EDR; Bluetooth V4.0;

Operation Frequency : 2402-2480MHz

Channel Number : Bluetooth V3.0+EDR: 79
Bluetooth V4.0: 40

Modulation Technology : Bluetooth V3.0+EDR: GFSK, /4DQPSK, 8-DPSK
Bluetooth V4.0: GFSK

Antenna Assembly Gain : PIFA antenna, 1.78dBi PK Gain

Applicant : TCL Technoly Electronics (Huizhou) Co., Ltd.
Secion 37, Zhongkai High-tech Development Zone, Huizhou City,
Guangdong Province, P.R. China.

Manufacturer : Sony Corporation
1-7-1 Konan, Minato-ku, Tokyo, 108-0075 Japan

Power Cord : Unshielded, Undetectable, 1.5m

Optical In Cable : Unshielded, Detectable, 1.0m

Remote : M/N: RMT-AH102U

Date of Test : Sep.11~22, 2014

Date of Receipt : Sep.09, 2014

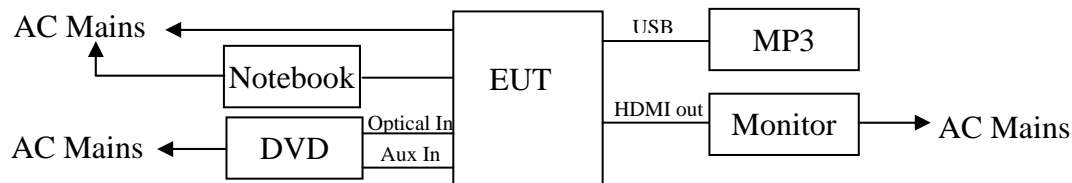
Sample Type : Prototype production

Remark : This test report only for Bluetooth V3.0+EDR struction as below:

2.2. Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number	Approved type
1.	Monitor	ACS-EMC-LM01R	ViewSonic	VLCDS26064-2W	A210521A0131	<input checked="" type="checkbox"/> FCC DoC <input checked="" type="checkbox"/> BSMI ID:R33002
		Power Cord: Unshielded, Detachable, 1.8m. VGA Cable: Shielded, Detachable, 2.0m DVI Cable: Shielded, Detachable, 2.0m				
2.	Notebook	N/A	DELL	PP09S	N/A	<input checked="" type="checkbox"/> FCC DoC <input checked="" type="checkbox"/> BSMI ID: R41108
		Power Cord: Unshielded, Detachable, 1.8m Power Adapter: Manufacturer: DELL, M/N: LA65NS1-00 Cable: Unshielded, Detachable, 4.0m(Bond one ferrite core)				
3.	DVD Player	ACS-EMC-DVD01	DENON	DVD-3910	4098400342E	<input type="checkbox"/> FCC ID <input type="checkbox"/> BSMI ID
4.	MP3	N/A	Sony	BNP-1	N/A	<input type="checkbox"/> FCC ID <input type="checkbox"/> BSMI ID

2.3. Block Diagram of connection between EUT and simulators



(EUT: HOME THEATRE SYSTEM)

2.4. Test information

The test software “bluesuite.exe” was used to control EUT work in Continuous TX mode, and select test channel.

Tested mode, channel, and data rate information			
Mode	data rate (Mbps)	Channel	Frequency (MHz)
Tx Mode GFSK modulation	1	Low :CH 0	2402
	1	Middle: CH39	2441
	1	High: CH78	2480
Tx Mode 8-DPSK modulation	3	Low :CH 0	2402
	3	Middle: CH39	2441
	3	High: CH78	2480

Note: $\pi/4$ DQPSK modulation is same type modulation with 8-DPSK, and according exploratory test, 8-DPSK will have worse emissions, so the final test were only performed with GFSK and 8-DPSK modulation.

2.5. 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 Industry Canada Registration Number: IC 5183A-1 Valid Date: May.14, 2017
	:	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

2.6. Measurement Uncertainty (95% confidence levels, k=2)

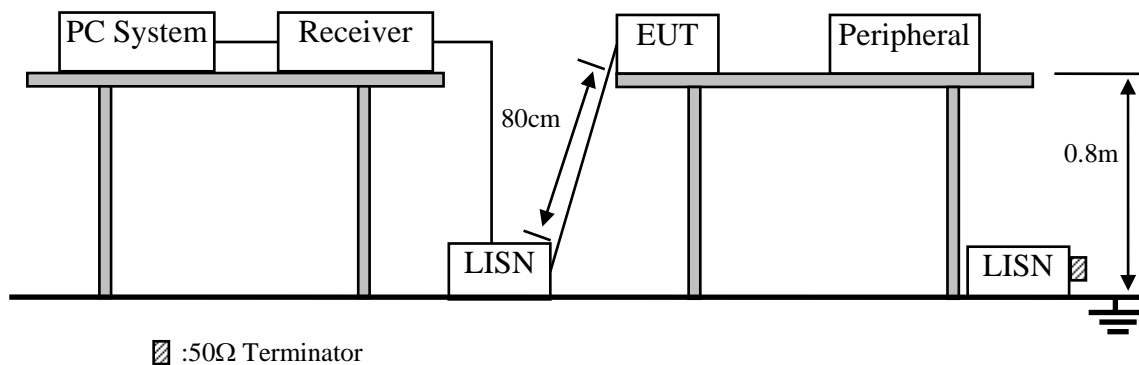
Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	3.10dB (150KHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	3.22 dB(30~200MHz, Polarize: H)
	3.23 dB(30~200MHz, Polarize: V)
	3.49 dB(200M~1GHz, Polarize: H)
	3.39 dB(200M~1GHz, Polarize: V)
Uncertainty 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 Radiated Spurious Emission test in RF chamber	3.57 dB
Uncertainty for Conduction Spurious emission test	2.00 dB
Uncertainty for Output power test	0.73 dB
Uncertainty for Bandwidth test	83 kHz
Uncertainty for DC power test	0.038 %
Uncertainty for test site temperature and humidity	0.6°C
	3%

3. POWER LINE CONDUCTED EMISSION MEASUREMENT

3.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	1# Shielding Room	AUDIX	N/A	N/A	Apr.17,14	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	Apr. 28,14	1 Year
5.	Terminator	Hubersuhner	50Ω	No. 1	Apr. 28,14	1 Year
6.	Terminator	Hubersuhner	50Ω	No. 2	Apr. 28,14	1 Year
7.	RF Cable	Hubersuhner	RG58	0100.6954.20#	Jan.22, 14	1 Year
8.	Coaxial Switch	Anritsu	MP59B	6200298346	Apr. 28,14	1 Year
9.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	101838	Jan.22, 14	1 Year

3.2. Block Diagram of Test Setup



3.3. Power Line Conducted Emission Test 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. Configuration of EUT on Test

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. HOME THEATRE SYSTEM (EUT)

Model Number : HT-XT100
Serial Number : N/A

3.5. Operating Condition of EUT

- 3.5.1. Setup the EUT and simulator as shown as Section 3.2.
- 3.5.2. Turn on the power of all equipment.
- 3.5.3. Let the EUT work in test mode (TX Mode) and measure it.

3.6. Test Procedure

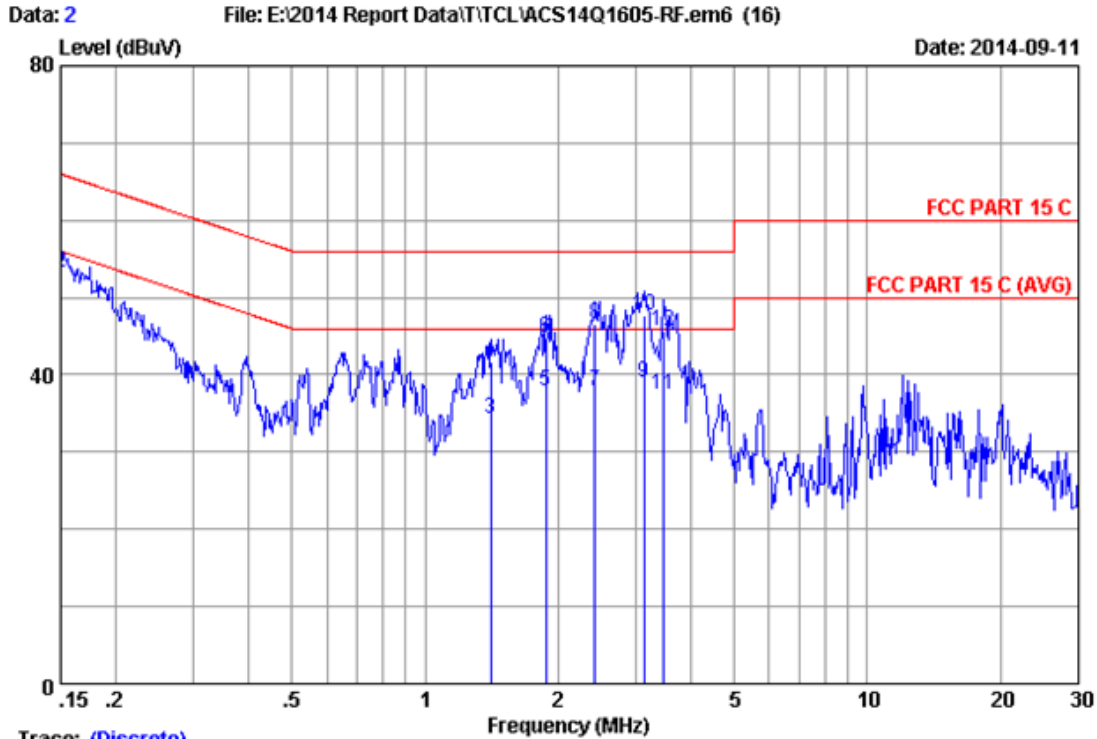
The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). 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 test receiver (R&S TEST RECEIVER ESHS10) is set at 9kHz.

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

3.7. Conducted Emission at Mains Terminals Test Results

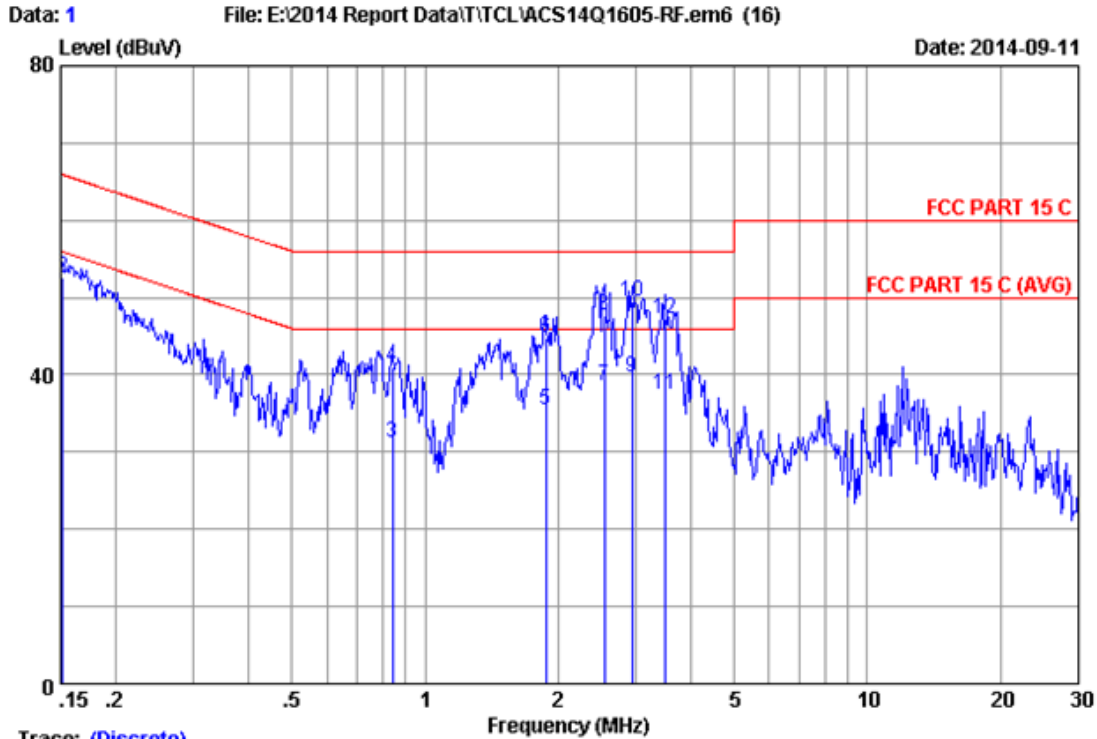
PASS. (All emissions not reported below are too low against the prescribed limits.)



Trace: (Discrete)
 Site no :1# Conduction Data No :2
 Dis./Ant. :2014 KNW-242C-VA
 Limit :FCC PART 15 C
 Env./Ins. :25.8*C/54% Engineer :Danny_Liu
 EUT :HOME THEATRE SYSTEM M/N:HT-XT100
 Power Rating :AC 120V/60Hz
 Test Mode :TX Mode (BT)

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15000	0.34	9.87	33.87	44.08	56.00	11.92	Average
2	0.15000	0.34	9.87	43.00	53.21	66.00	12.79	QP
3	1.411	0.41	9.90	24.02	34.33	46.00	11.67	Average
4	1.411	0.41	9.90	31.35	41.66	56.00	14.34	QP
5	1.878	0.41	9.91	27.62	37.94	46.00	8.06	Average
6	1.878	0.41	9.91	34.39	44.71	56.00	11.29	QP
7	2.422	0.42	9.91	27.50	37.83	46.00	8.17	Average
8	2.422	0.42	9.91	36.17	46.50	56.00	9.50	QP
9	3.123	0.44	9.92	28.74	39.10	46.00	6.90	Average
10	3.123	0.44	9.92	37.37	47.73	56.00	8.27	QP
11	3.472	0.45	9.93	27.15	37.53	46.00	8.47	Average
12	3.472	0.45	9.93	35.31	45.69	56.00	10.31	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+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 :1
 Dis./Ant. :2014 KNW-242C-VB
 Limit :FCC PART 15 C
 Env./Ins. :25.8°C/54% Engineer :Danny_Liu
 EUT :HOME THEATRE SYSTEM M/N:HT-XT100
 Power Rating :AC 120V/60Hz
 Test Mode :TX Mode (BT)

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15160	0.06	9.87	31.07	41.00	55.91	14.91	Average
2	0.15160	0.06	9.87	42.66	52.59	65.91	13.32	QP
3	0.84378	0.06	9.89	21.35	31.30	46.00	14.70	Average
4	0.84378	0.06	9.89	31.04	40.99	56.00	15.01	QP
5	1.878	0.06	9.91	25.47	35.44	46.00	10.56	Average
6	1.878	0.06	9.91	34.73	44.70	56.00	11.30	QP
7	2.540	0.07	9.92	28.51	38.50	46.00	7.50	Average
8	2.540	0.07	9.92	37.79	47.78	56.00	8.22	QP
9	2.931	0.08	9.92	29.64	39.64	46.00	6.36	Average
10	2.931	0.08	9.92	39.37	49.37	56.00	6.63	QP
11	3.491	0.09	9.93	27.45	37.47	46.00	8.53	Average
12	3.491	0.09	9.93	37.26	47.28	56.00	8.72	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+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 Equipment

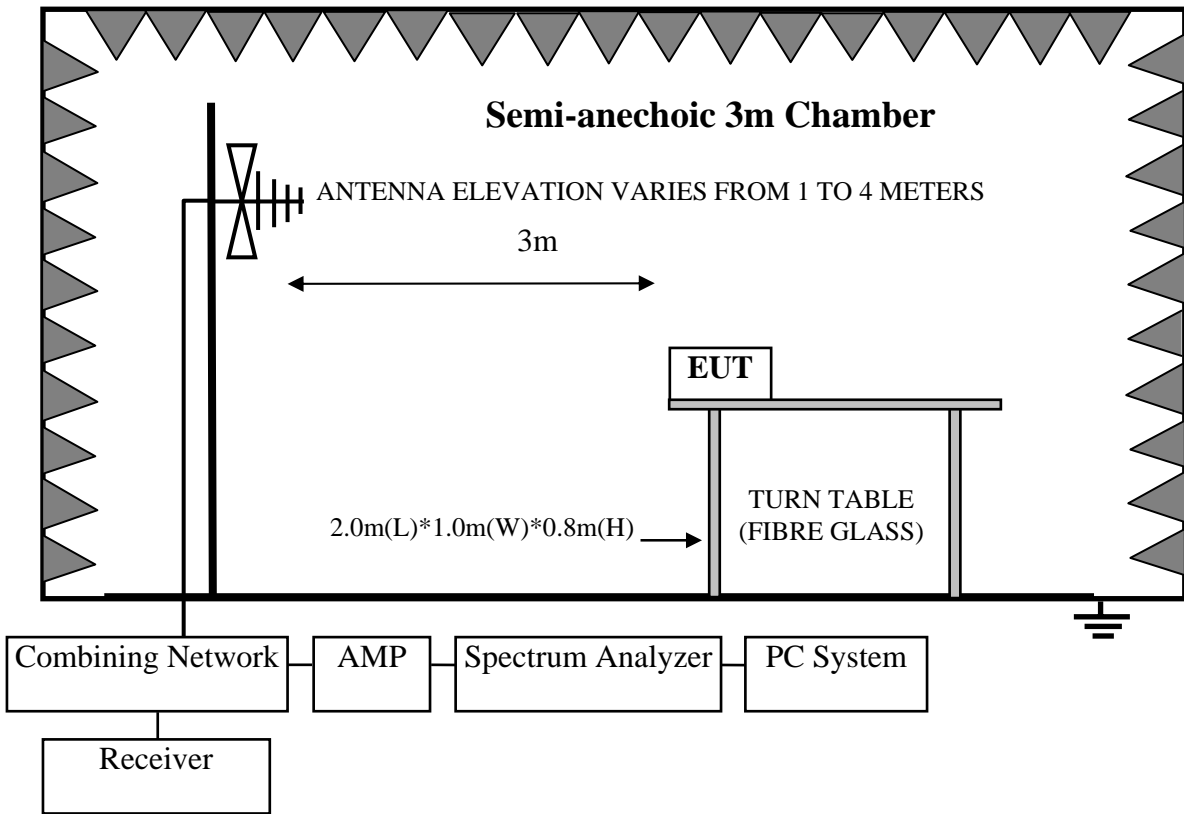
Frequency rang: 30~1000MHz

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	Apr. 28,14	1 Year
3.	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	Apr. 28,14	1 Year
4.	Amplifier	HP	8447D	2648A04738	Apr. 28,14	1 Year
5.	Bilog Antenna	TESEQ	CBL6112D	35375	Jun. 18, 14	1 Year
6.	RF Cable	MIYAZAKI	CFD400-NL	3# Chamber No.1	Apr. 28,14	1 Year
7.	Coaxial Switch	Anritsu	MP59B	6200313662	Apr. 28,14	1 Year

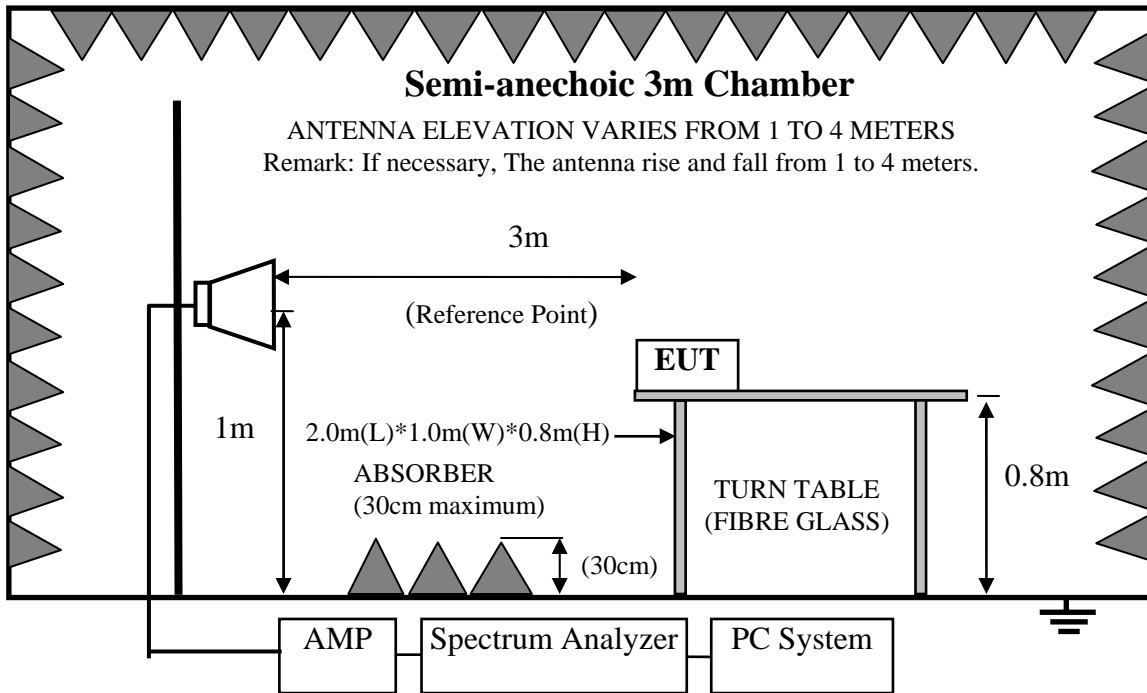
Frequency rang: above 1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber	AUDIX	N/A	N/A	Nov.03, 13	1 Year
2.	Spectrum Analyzer	Agilent	E4407B	MY41440292	Apr. 28,14	1 Year
3.	Horn Antenna	ETS	3115	9607-4877	Sep.20, 14	1 Year
4.	Amplifier	Agilent	8449B	3008A00863	Apr. 28,14	1 Year
5.	RF Cable	Hubersuhner	SUCOFLEX106	77977/6	Apr. 28,14	1 Year
6.	RF Cable	Hubersuhner	SUCOFLEX106	28616/2	Apr. 28,14	1 Year
7.	Horn Antenna	ETS	3116	00060089	Sep.20, 14	1 Year

4.2. Block Diagram of Test Setup
For frequency range 30MHz-1000MHz



For frequency range 1GHz-25GHz



4.3. Radiated Emission Limit Standard: FCC 15.209

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000MHz	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

- Remark :
- (1) Emission level $\text{dB}\mu\text{V} = 20 \log$ Emission level $\mu\text{V}/\text{m}$
 - (2) The smaller limit shall apply at the cross point between two frequency bands.
 - (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.
 - (4) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

4.4. EUT Configuration on Test

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

4.4.1. HOME THEATRE SYSTEM (EUT)

Model Number : HT-XT100
Serial Number : N/A

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 EUT work in Tx mode.

4.6. Test Procedure

The EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10-2009 on radiated emission Test.

This test was performed with EUT in X, Y, Z position, and the worse case was found when EUT in X position as the test photo indicated.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's RBW is set at 1MHz and VBW is set at 3MHz for peak emissions measurement above 1GHz

This device is pulse Modulated, a duty cycle factor was used to calculated average level based measured peak level.

The frequency range from 30MHz to 10th harmonic (25GHz) are checked. and no any emissions were found from 18GHz to 25 GHz, So the radiated emissions from 18GHz to 25GHz were not record.

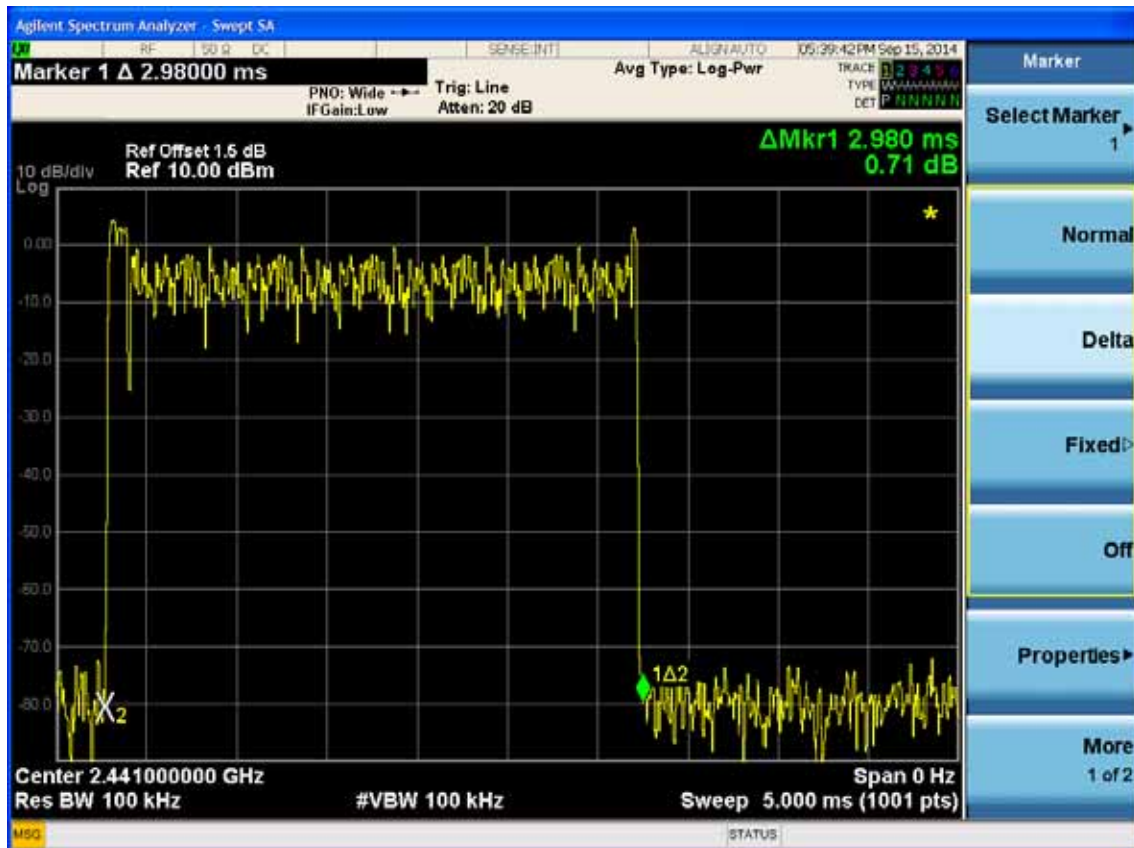
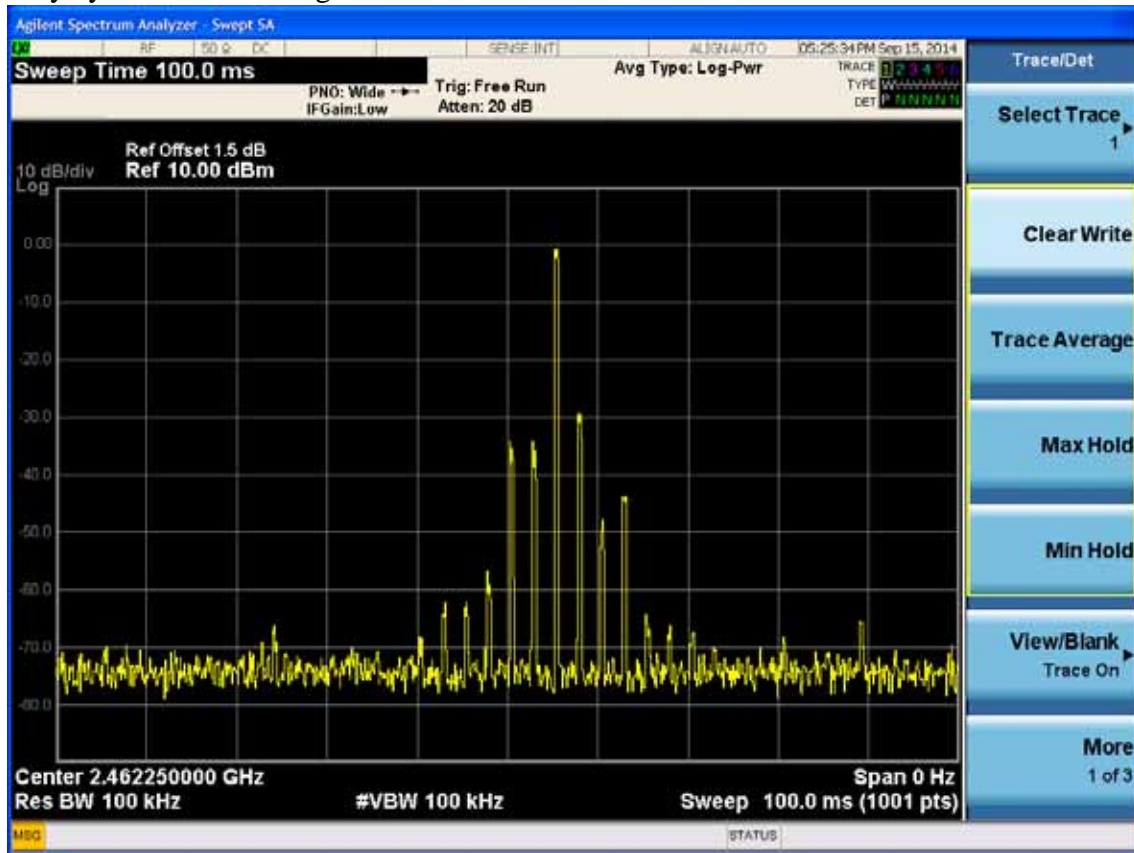
4.7.Radiated Emission Test Results

PASS.

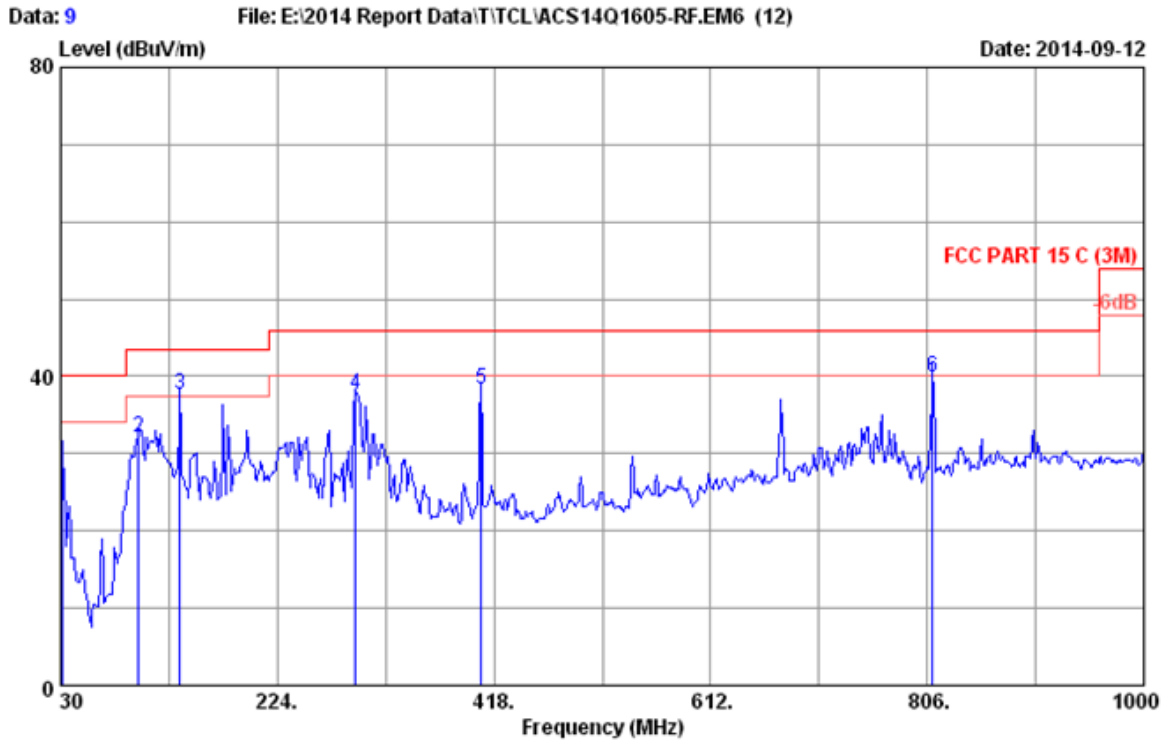
All the emissions from 30MHz to 25GHz were comply with the 15.209 Limit.

Note: The duty cycle factor for calculate average level is -30.515 dB, and average limit is 20dB below peak limit, so if peak measured level comply with average limit, the average level was deemed to comply with average limit.

Duty cycle factor = $20\log (\text{Dwell time}/100\text{ms}) = -30.515$



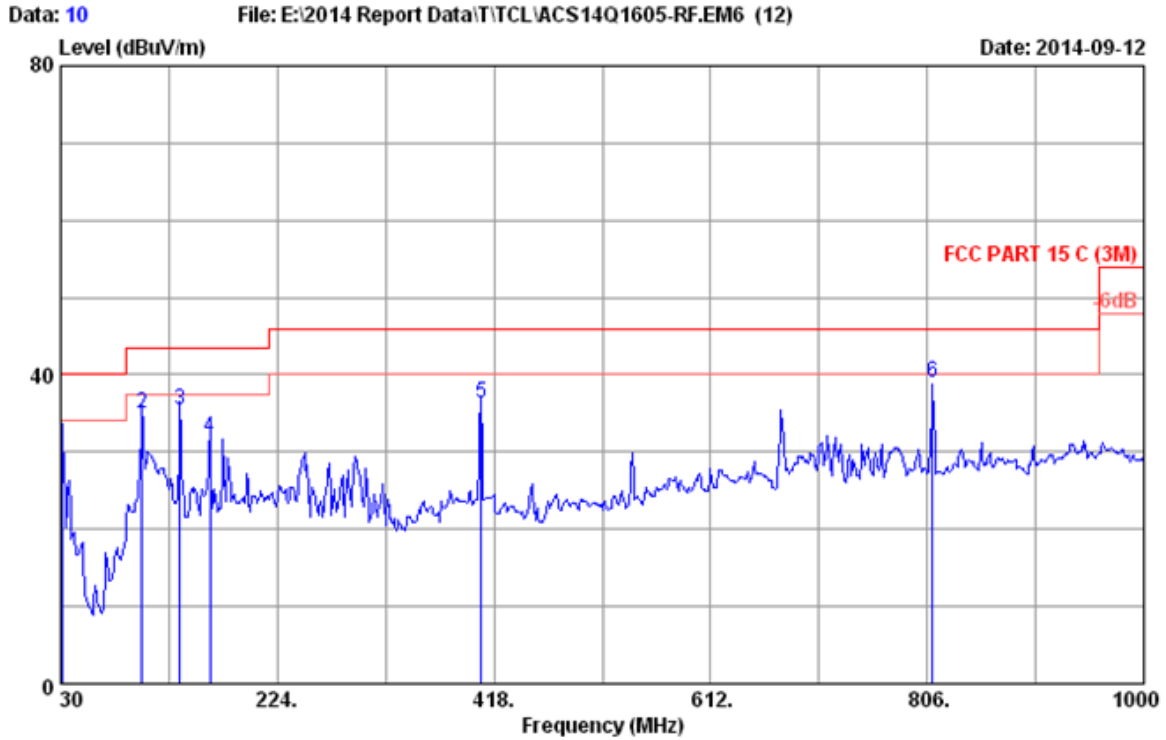
Frequency: 30MHz~1GHz



Site no. : 3m Chamber Data no. : 9
 Dis. / Ant. : 3m 2014 CBL6112D 35375 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 26.5°C/60% Engineer : Bery_Guo
 EUT : HOME THEATRE SYSTEM M/N:HT-XT100
 Power rating : AC 120V/60Hz
 Test Mode : TX Mode (BT)

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.940	18.82	0.62	9.60	29.04	40.00	10.96	QP
2	99.840	11.18	1.11	19.70	31.99	43.50	11.51	QP
3	136.700	12.19	1.44	24.01	37.64	43.50	5.86	QP
4	293.840	13.80	2.25	21.60	37.65	46.00	8.35	QP
5	406.360	17.15	2.83	18.41	38.39	46.00	7.61	QP
6	810.850	21.00	4.52	14.30	39.82	46.00	6.18	QP

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

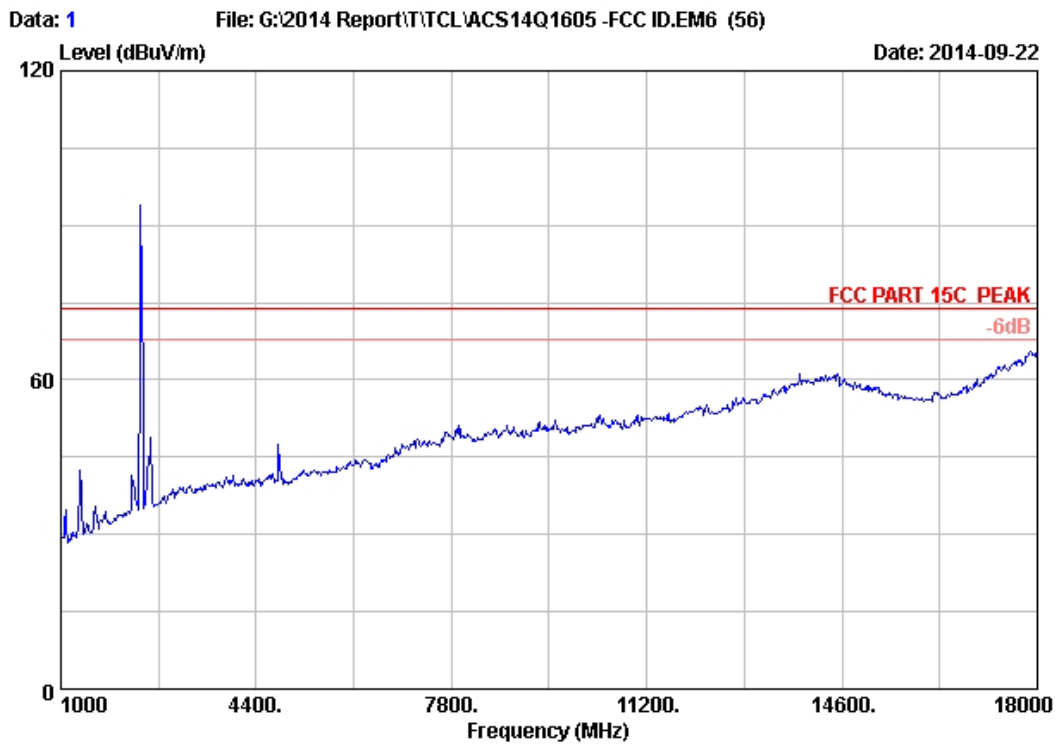


Site no. : 3m Chamber Data no. : 10
 Dis. / Ant. : 3m 2014 CBL6112D 35375 Ant. pol. : VERTICAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 26.5°C/60% Engineer : Bery_Guo
 EUT : HOME THEATRE SYSTEM M/N:HT-XT100
 Power rating : AC 120V/60Hz
 Test Mode : TX Mode (BT)

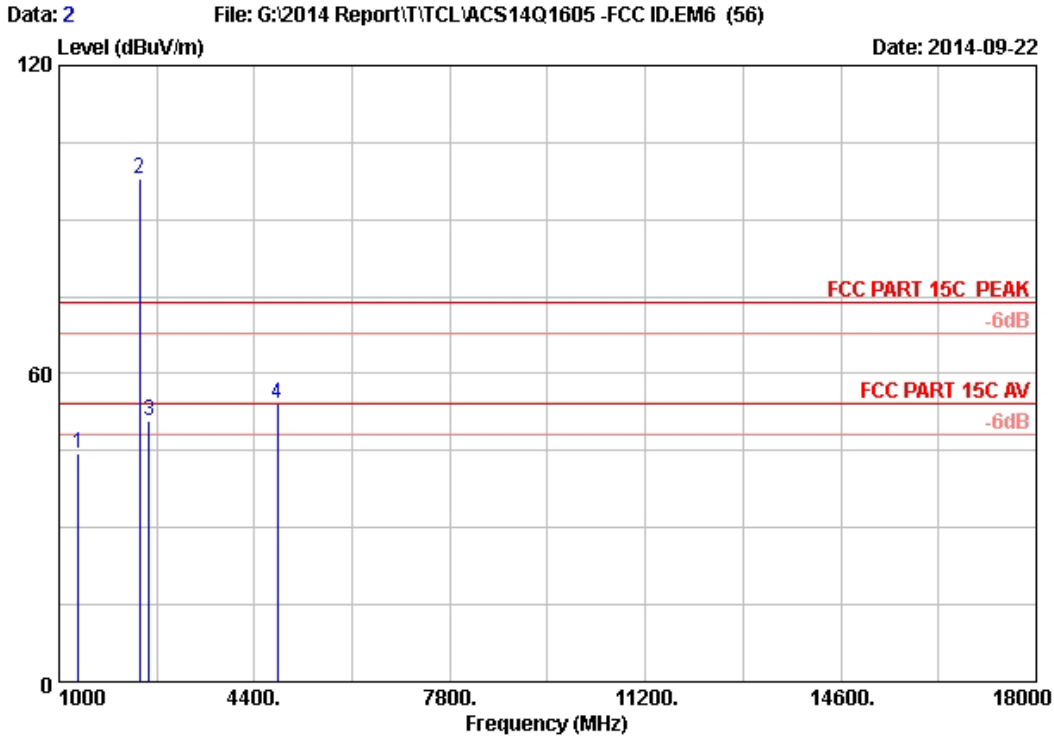
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.940	18.82	0.62	11.50	30.94	40.00	9.06	QP
2	102.750	11.54	1.14	22.40	35.08	43.50	8.42	QP
3	136.700	12.19	1.44	21.91	35.54	43.50	7.96	QP
4	163.860	10.51	1.63	19.71	31.85	43.50	11.65	QP
5	406.360	17.15	2.83	16.41	36.39	46.00	9.61	QP
6	810.850	21.00	4.52	13.50	39.02	46.00	6.98	QP

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

Frequency: 1GHz~18GHz



Site no.	: 3m Chamber	Data no.	: 1
Dis. / Ant.	: 3m 2014 3115 (4580)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 24°C/56%	Engineer	: Kobe-Huang
EUT	: HOME THEATRE SYSTEM		
Power Rating	: AC 120V/60Hz		
Test Mode	: GFSK 2402MHz		
M/N	: HT-XT100		

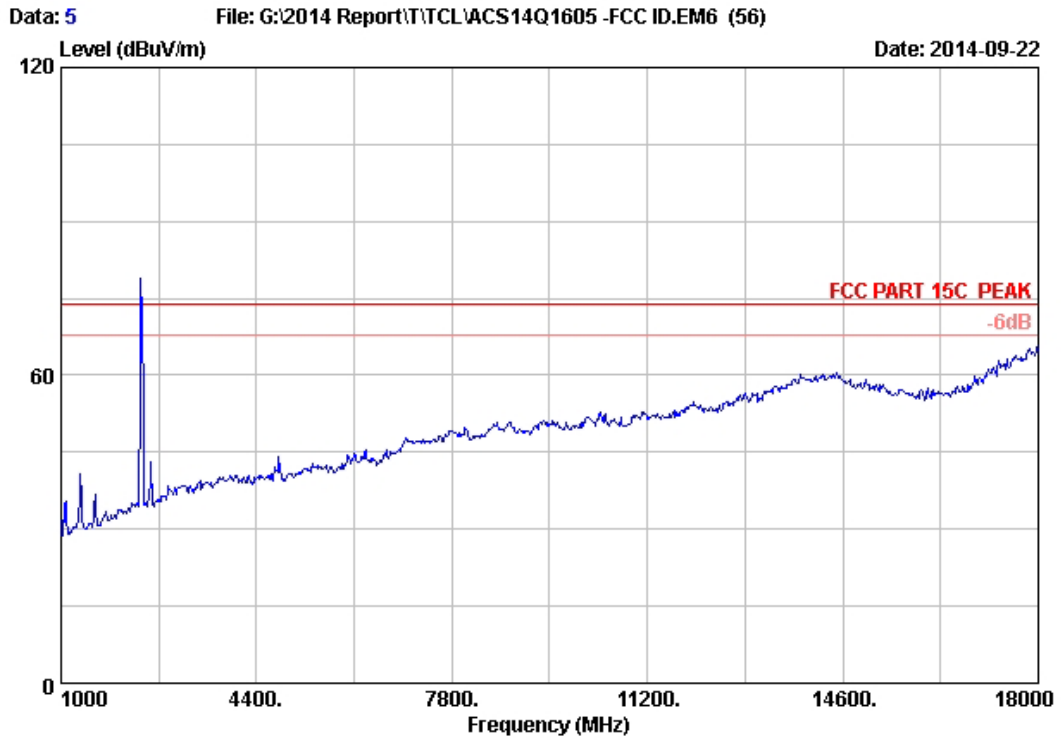


Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Kobe-Huang
 EUT : HOME THEATRE SYSTEM
 Power Rating : AC 120V/60Hz
 Test Mode : GFSK 2402MHz
 M/N : HT-XT100

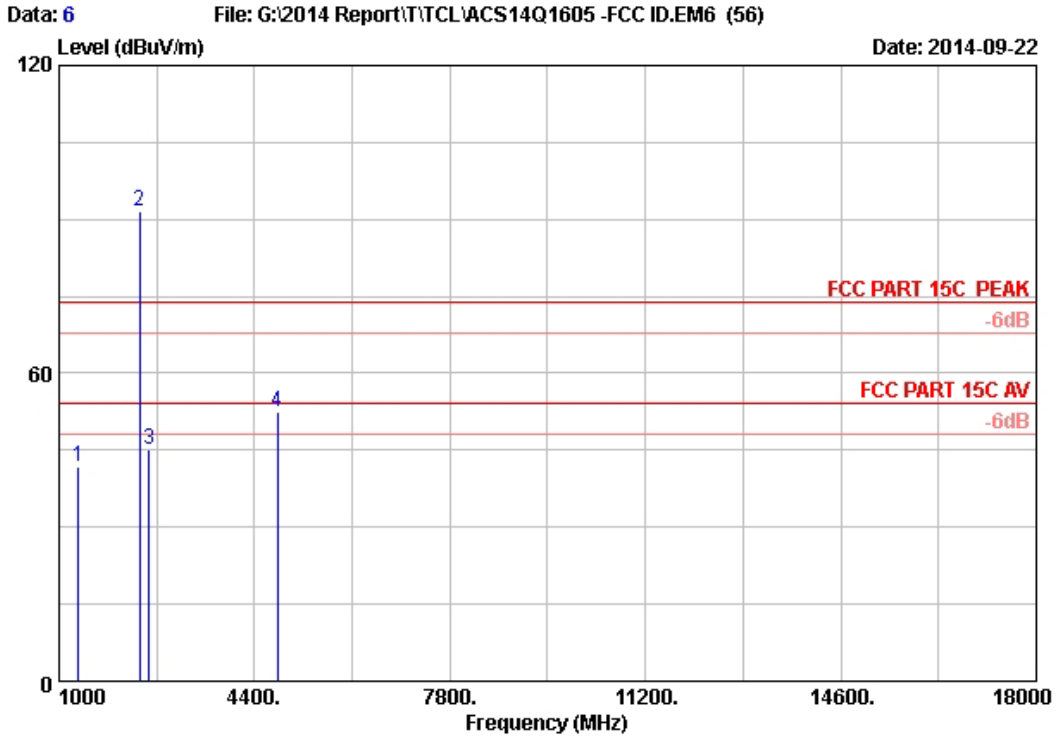
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1340.000	24.62	4.25	36.43	51.87	44.31	74.00	29.69	Peak
2	2402.000	28.18	5.80	35.70	99.56	97.84	74.00	-23.84	Peak
3	2564.000	28.66	6.04	35.70	51.81	50.81	74.00	23.19	Peak
4	4804.000	32.85	8.56	35.70	48.45	54.16	74.00	19.84	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.

Frequency (MHz)	Peak level (dBuV/m)	Duty cycle factor (dB)	AV level (dBuV/m)	Limit(dBuv/m)	Conclusion
4804	54.16	-30.515	23.645	54	Pass



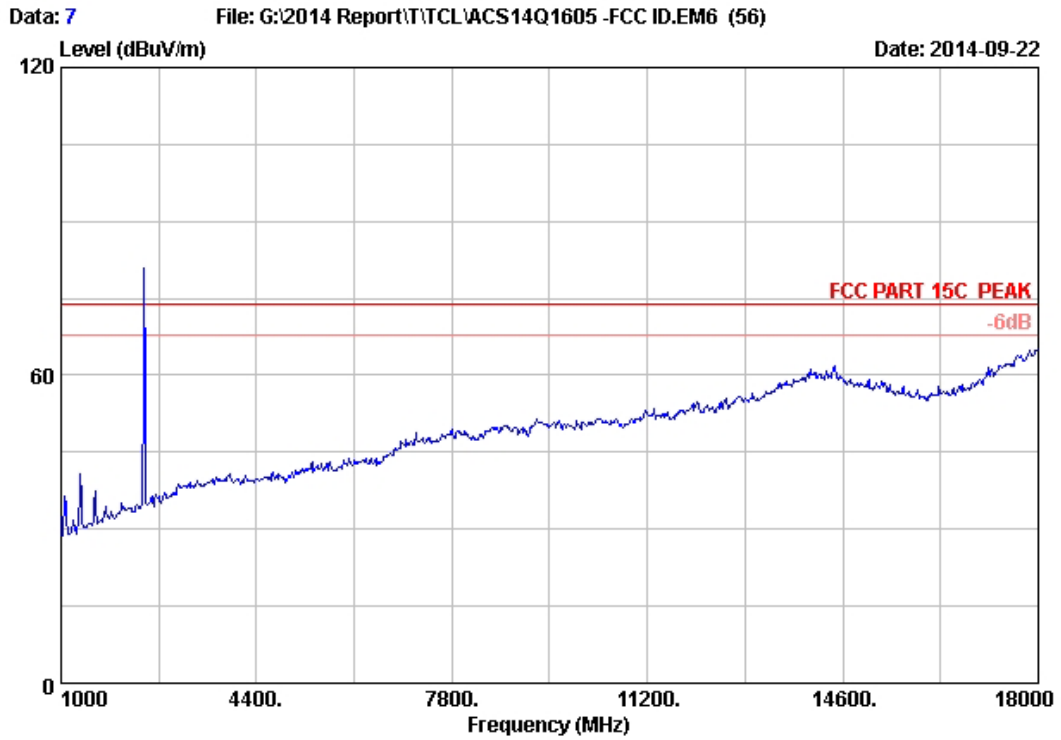
Site no.	: 3m Chamber	Data no.	: 5
Dis. / Ant.	: 3m 2014 3115 (4580)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 24°C/56%	Engineer	: Kobe-Huang
EUT	: HOME THEATRE SYSTEM		
Power Rating	: AC 120V/60Hz		
Test Mode	: GFSK 2402MHz		
M/N	: HT-XT100		



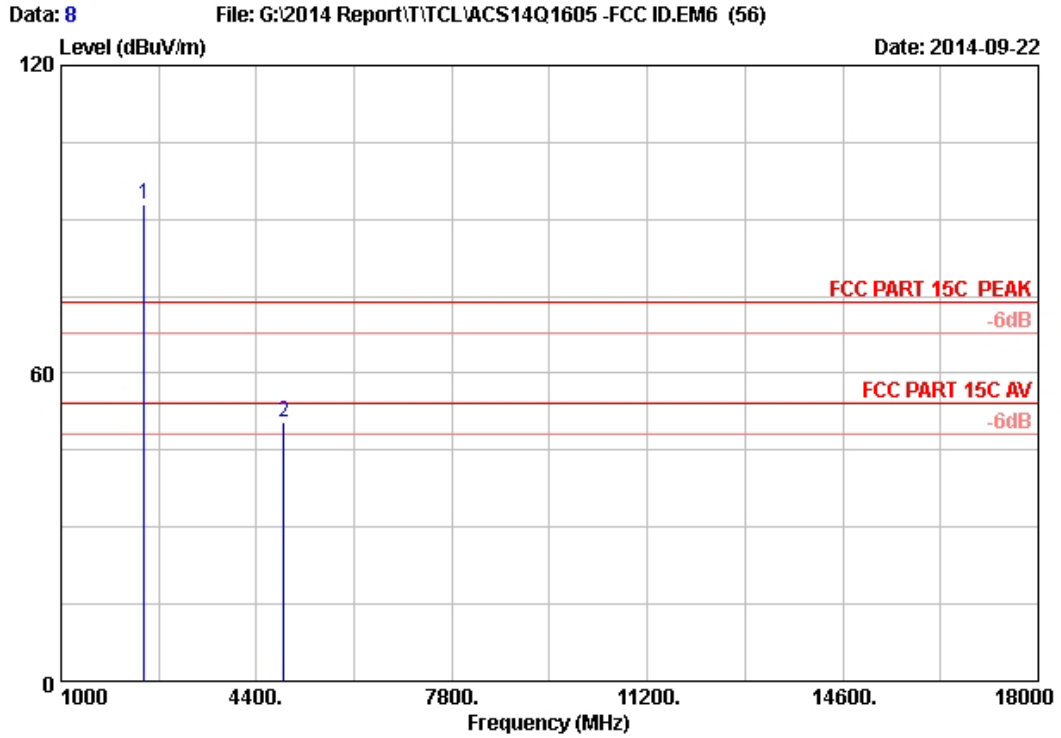
Site no. : 3m Chamber Data no. : 6
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Kobe-Huang
 EUT : HOME THEATRE SYSTEM
 Power Rating : AC 120V/60Hz
 Test Mode : GFSK 2402MHz
 M/N : HT-XT100

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	1340.000	24.62	4.25	36.43	49.20	41.64	74.00	32.36	Peak
2	2402.000	28.18	5.80	35.70	93.25	91.53	74.00	-17.53	Peak
3	2564.000	28.66	6.04	35.70	46.19	45.19	74.00	28.81	Peak
4	4804.000	32.85	8.56	35.70	46.63	52.34	74.00	21.66	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.



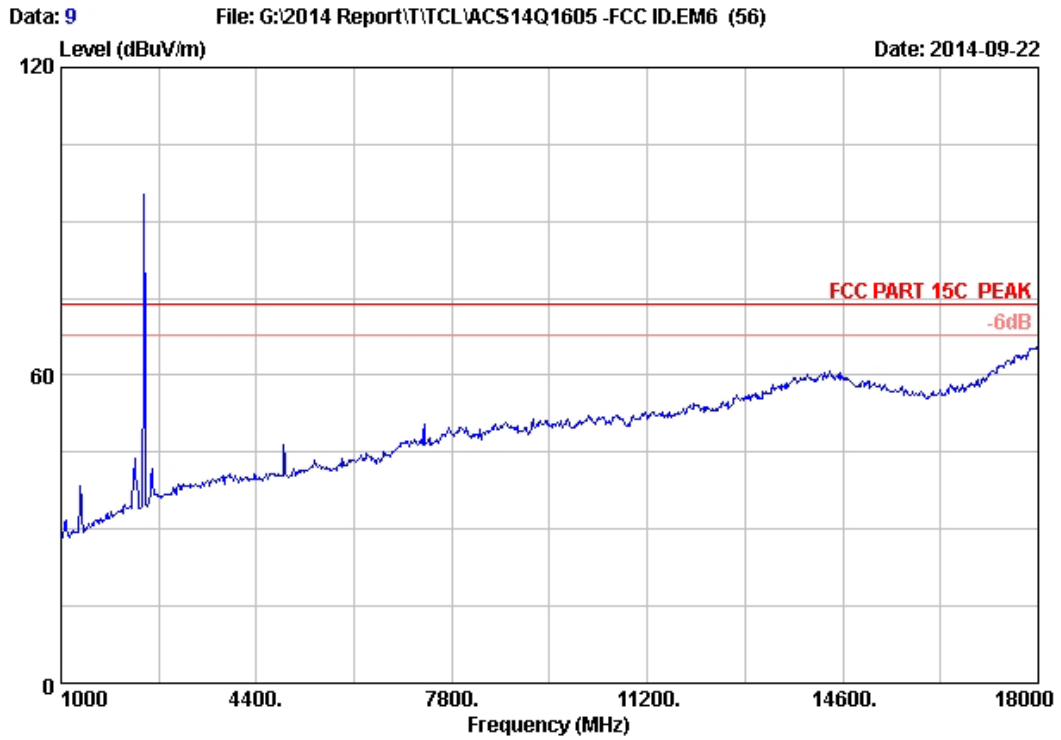
Site no.	: 3m Chamber	Data no.	: 7
Dis. / Ant.	: 3m 2014 3115 (4580)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK	Engineer	: Kobe-Huang
Env. / Ins.	: 24°C/56%		
EUT	: HOME THEATRE SYSTEM		
Power Rating	: AC 120V/60Hz		
Test Mode	: GFSK 2441MHz		
M/N	: HT-XT100		



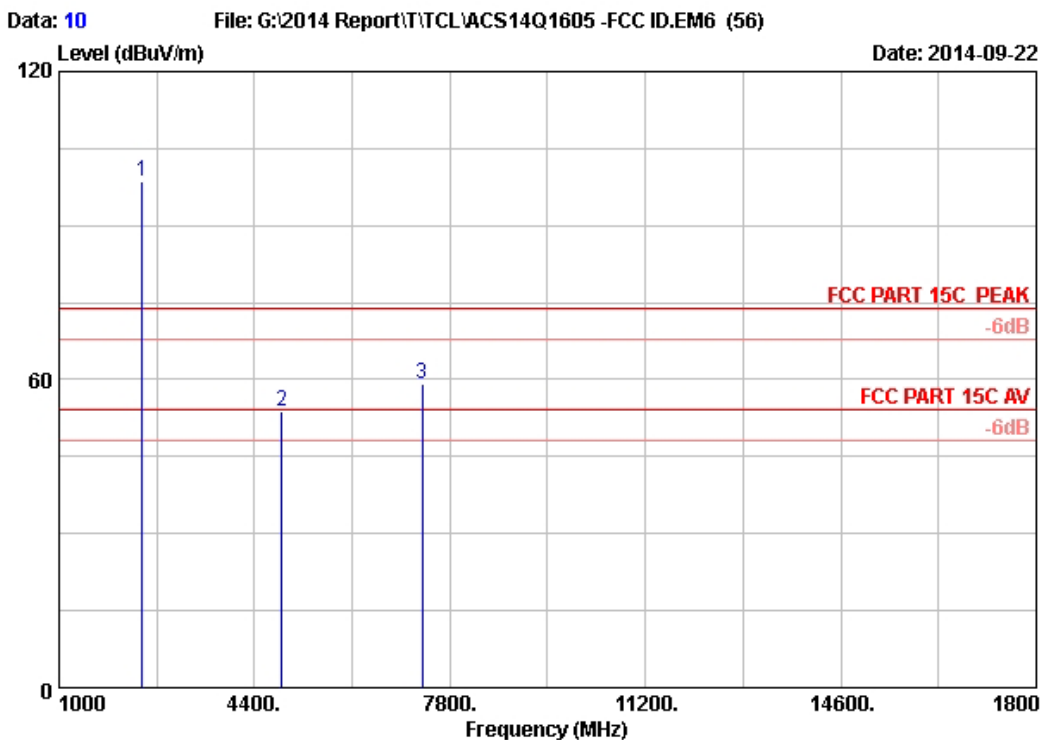
Site no. : 3m Chamber Data no. : 8
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Kobe-Huang
 EUT : HOME THEATRE SYSTEM
 Power Rating : AC 120V/60Hz
 Test Mode : GFSK 2441MHz
 M/N : HT-XT100

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	2441.000	28.27	5.86	35.70	94.42	92.85	74.00	-18.85	Peak
2	4882.000	32.99	8.64	35.70	44.61	50.54	74.00	23.46	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.	: 9
Dis. / Ant.	: 3m 2014 3115 (4580)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 24°C/56%	Engineer	: Kobe-Huang
EUT	: HOME THEATRE SYSTEM		
Power Rating	: AC 120V/60Hz		
Test Mode	: GFSK 2441MHz		
M/N	: HT-XT100		

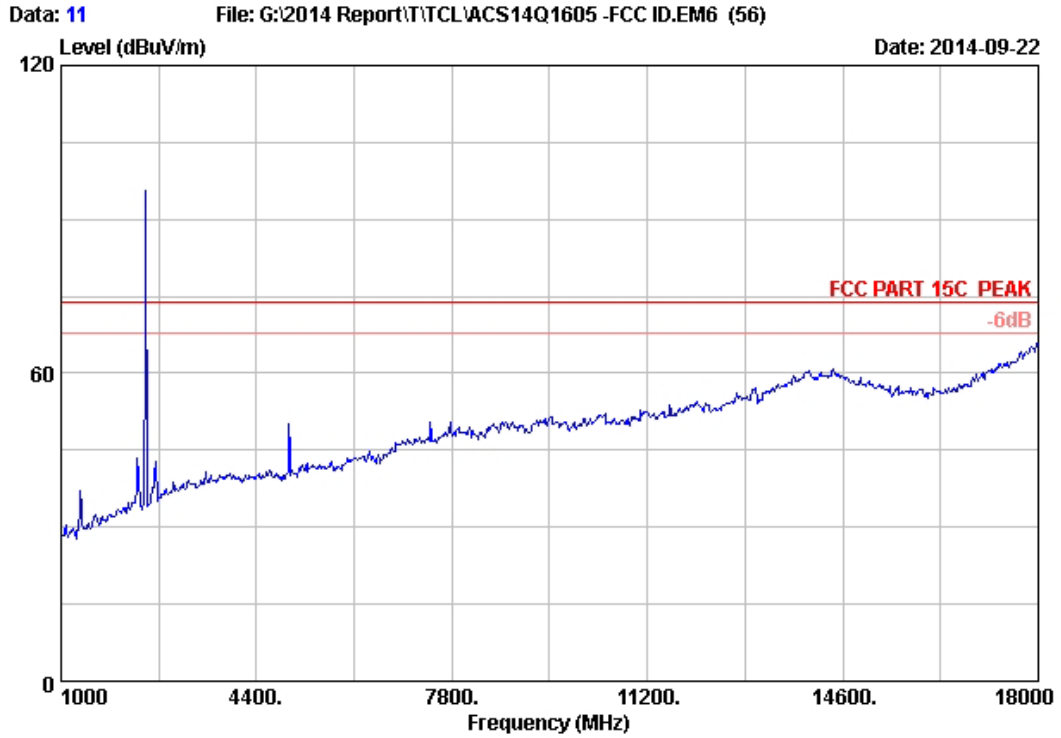


Site no. : 3m Chamber Data no. : 10
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Kobe-Huang
 EUT : HOME THEATRE SYSTEM
 Power Rating : AC 120V/60Hz
 Test Mode : GFSK 2441MHz
 M/N : HT-XT100

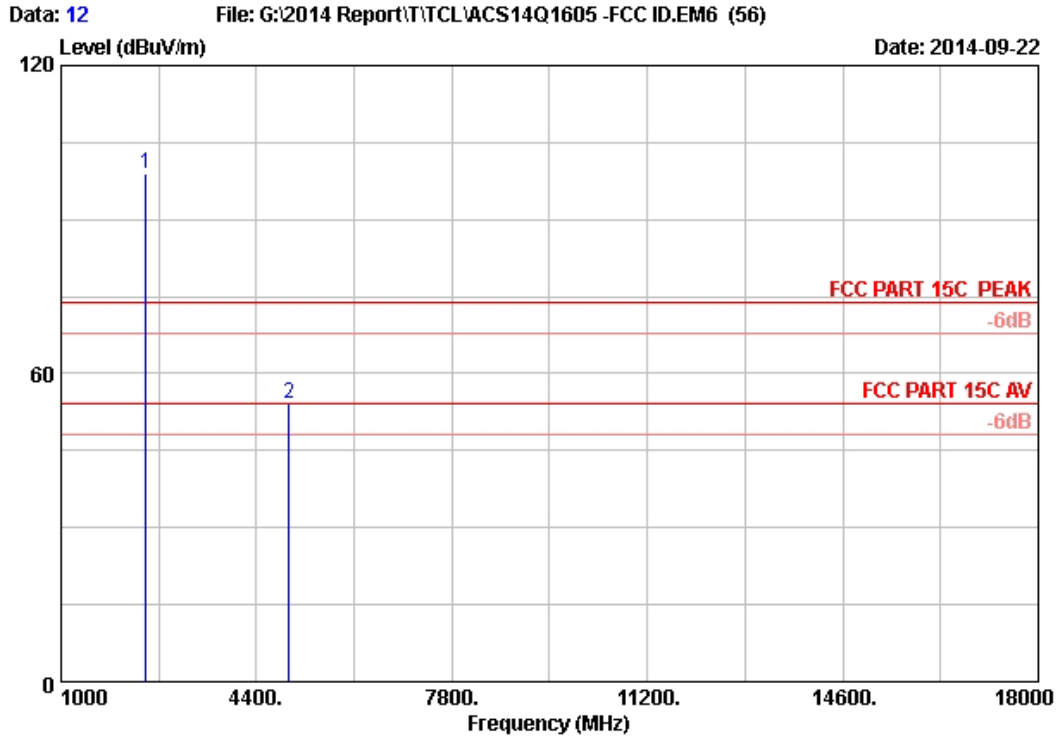
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2441.000	28.27	5.86	35.70	100.28	98.71	74.00	-24.71	Peak
2	4882.000	32.99	8.64	35.70	47.85	53.78	74.00	20.22	Peak
3	7323.000	36.21	11.03	35.44	47.21	59.01	74.00	14.99	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.

Frequency (MHz)	Peak level (dBUV/m)	Duty cycle factor (dB)	AV level (dBUV/m)	Limit(dBUV/m)	Conclusion
7323	59.01	-30.515	28.495	54	Pass



Site no.	: 3m Chamber	Data no.	: 11
Dis. / Ant.	: 3m 2014 3115 (4580)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 24°C/56%	Engineer	: Kobe-Huang
EUT	: HOME THEATRE SYSTEM		
Power Rating	: AC 120V/60Hz		
Test Mode	: GFSK 2480MHz		
M/N	: HT-XT100		

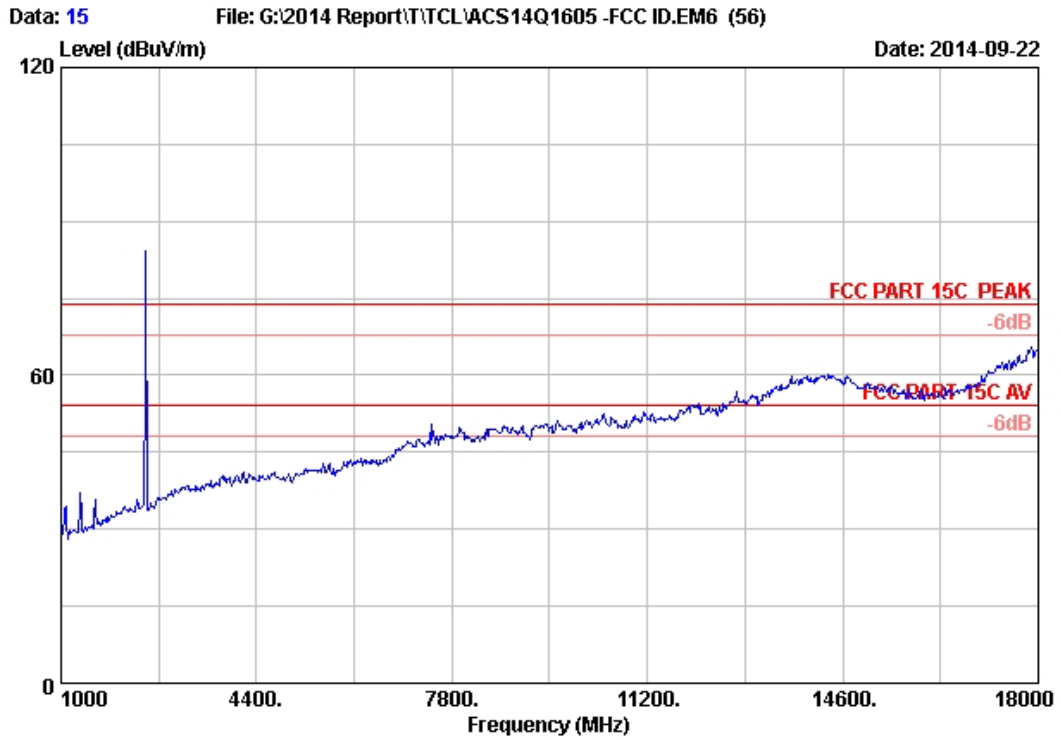


Site no. : 3m Chamber Data no. : 12
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Kobe-Huang
 EUT : HOME THEATRE SYSTEM
 Power Rating : AC 120V/60Hz
 Test Mode : GFSK 2480MHz
 M/N : HT-XT100

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	2480.000	28.36	5.91	35.70	100.26	98.83	74.00	-24.83	Peak
2	4960.000	33.13	8.72	35.70	47.88	54.03	74.00	19.97	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.

Frequency (MHz)	Peak level (dBuV/m)	Duty cycle factor (dB)	AV level (dBuV/m)	Limit(dBuV/m)	Conclusion
4960	54.03	-30.515	23.515	54	Pass



Site no.	: 3m Chamber	Data no.	: 15
Dis. / Ant.	: 3m 2014 3115 (4580)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK	Engineer	: Kobe-Huang
Env. / Ins.	: 24°C/56%		
EUT	: HOME THEATRE SYSTEM		
Power Rating	: AC 120V/60Hz		
Test Mode	: GFSK 2480MHz		
M/N	: HT-XT100		