

APPLICATION FOR CERTIFICATION
On Behalf of

Hip Shing Electronics Ltd.

Internet Radio

Model Number: Timber H

FCC ID: BZATIMBER-H

Prepared for : Hip Shing Electronics Ltd.
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Report Number : ACS-F08431
Date of Test : Oct.16~26, 2008
Date of Report : Oct.27, 2008

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TEST REPORT FOR CERTIFICATION

Applicant : Hip Shing Electronics Ltd.
 Manufacturer : DongGuan Zhi Cheng Electronic Products Co., Ltd.
 EUT Description : Internet Radio

(A) MODEL NO. : Timber H
 (B) FCC ID : BZATIMBER-H
 (C) POWER SUPPLY : AC 120V/60Hz
 (D) TEST VOLTAGE : AC 120V/60Hz

Test Procedure Used:

FCC Rules and Regulations Part 15 Subpart C 2007

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 C 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. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

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.

Date of Test : Oct.16~26, 2008

Prepared by : YoYo Wang
YoYo Wang / Assistant

Reviewer : Jamy Yu
Jamy Yu / Senior Engineer

Approved & Authorized Signer : Ken Lu
Ken Lu / Deputy 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 C63.4: 2003 KDB558074	PASS
Radiated Emission Test	FCC Part 15: 15.209 ANSI C63.4: 2003 KDB558074	PASS
Band Edge Compliance Test	FCC Part 15: 15.247 KDB558074	PASS
Conducted spurious emissions test	FCC Part 15: 15.247 KDB558074	PASS
6dB Bandwidth Test	FCC Part 15: 15.247 KDB558074	PASS
Output Power Test	FCC Part 15: 15.247 KDB558074	PASS
Power Spectral Density Test	FCC Part 15: 15.247 KDB558074	PASS
MPE ESTIMATION	FCC Part 2: 2.1093	PASS
Antenna requirement	FCC Part 15: 15.203	PASS

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Product name	:	Internet Radio
Model Number	:	Timber H
FCC ID	:	BZATIMBER-H
Operation frequency	:	IEEE 802.11b/g: 2412MHz-2462MHz
Channel Number	:	IEEE 802.11b/g:11 Channels
Modulation Type	:	IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE 802.11g: OFDM(64QAM, 16AQM, QPSK, BPSK)
Data Rate	:	IEEE 802.11b: 11/5.5/2/1Mbps. IEEE 802.11g: 54/48/36/24/18/12/9/6Mbps.
PK Output power	:	IEEE 802.11b:19.56 dBm IEEE 802.11g:23.19dBm
Antenna Assembly Gain	:	2dBi (maximum)
Applicant	:	Hip Shing Electronics Ltd. Units 1,2&3, 20/F New Treasure Centre, 10 Ng Fong Street, San Po Kong, Kowloon, Hong Kong
Manufacturer	:	DongGuan Zhi Cheng Electronic Products Co., Ltd. Tangxia Ping San 188 Ind. Zone, Dongguanshi, China
Date of Test	:	Oct.16~26, 2008
Date of Receipt	:	Oct.15, 2008
Sample Type	:	Prototype production

2.2. Test information

The test software “Master_uart.” was used to control EUT work in Continuous TX mode, and select test channel, wireless mode and data rate.

Tested mode, channel, and data rate information			
Mode	data rate (Mbps)(see Note)	Channel	Frequency (MHz)
IEEE 802.11b	2	Low :CH1	2412
	2	Middle: CH6	2437
	2	High: CH11	2462
IEEE 802.11g	24	Low :CH1	2412
	24	Middle: CH6	2437
	24	High: CH11	2462

Note: According exploratory test, EUT will have maximum output power in those data rate. so those data rate were used for all test.

2.3. Date rate VS power

Mode	Data rate(Mbps)	CH	Level(dBm)	Limit (dBm)
11b	1	CH6	19.24	30
	2	CH6	19.11	30
	5.5	CH6	19.20	30
	11	CH6	19.16	30
11g	6	CH6	22.52	30
	9	CH6	22.14	30
	12	CH6	22.23	30
	18	CH6	22.41	30
	24	CH6	22.09	30
	36	CH6	21.98	30
	48	CH6	22.23	30
	54	CH6	22.12	30

When IEEE 802.11b’s data rate was 1Mbps; IEEE 802.11g’s data rate was 6Mbps. EUT have maximum output power and all the test was performed in this data rate set.

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 : Jun. 13, 2006 File on Federal
Communication Commission
Registration Number: 90454
- 3m & 10m Anechoic Chamber : Jan. 31, 2007 File on Federal
Communication Commission
Registration Number: 794232
- EMC Lab. : Accredited by DATech, German
Registration Number: DAT-P-091/99-01
Dec. 20, 2007
- Accredited by NVLAP, USA
NVLAP Code: 200372-0
Apr. 01, 2007

2.5. Measurement Uncertainty

No.	Item	MU	Remark
1	Uncertainty for Conducted Emission Test	2.02dB	
2	Uncertainty for Radiation Emission test in 3m chamber	3.44 dB	Polarize: V
		3.96 dB	Polarize: H
3	Uncertainty for Radiation Emission test in 10m chamber	3.86dB	Distance: 10m Polarize: V
		4.18dB	Distance: 10m Polarize: H
		4.02dB	Distance: 3m Polarize: V
		4.36dB	Distance: 3m Polarize: H
4.	Uncertainty for Frequency measure	0.42×10^{-6}	
5.	Uncertainty for conducted power measure	0.112	

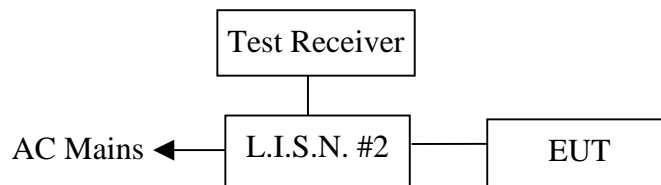
3. POWER LINE CONDUCTED EMISSION TEST

3.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	Dec.19, 07	1 Year
2.	L.I.S.N.#2	Kyoritsu	KNW-407	8-1636-1	May 10,08	1 Year
3.	L.I.S.N.#3	Kyoritsu	KNW-242C	8-1920-1	May 10,08	1 Year
4.	Terminator	Hubersuhner	50Ω	No. 1	May 10,08	1 Year
5.	RF Cable	Fujikura	3D-2W	LISN Cable 1#	Jul.08, 08	1/2 Year
6.	Coaxial Switch	Anritsu	MP59B	M55367	Jul.08, 08	1/2 Year
7.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100340	Jul.08, 08	1/2 Year

3.2. Block Diagram of Test Setup

3.2.1. Block diagram of connection between the EUT and simulators



(EUT: Internet Radio)

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. Internet Radio (EUT)

Model Number : Timber H
 Serial Number : N/A
 Manufacturer : DongGuan Zhi Cheng Electronic Products Co., Ltd.

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 worked in test mode (Tx Mode)

3.6.Test Procedure

The EUT is connected to the power mains through a line impedance stabilization network (L.I.S.N.#2). Let EUT working in test mode, then test it. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2003 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESHS10) is set at 10kHz.

The frequency range from 150kHz to 30MHz is checked.

The test result are reported on Section 3.7.,

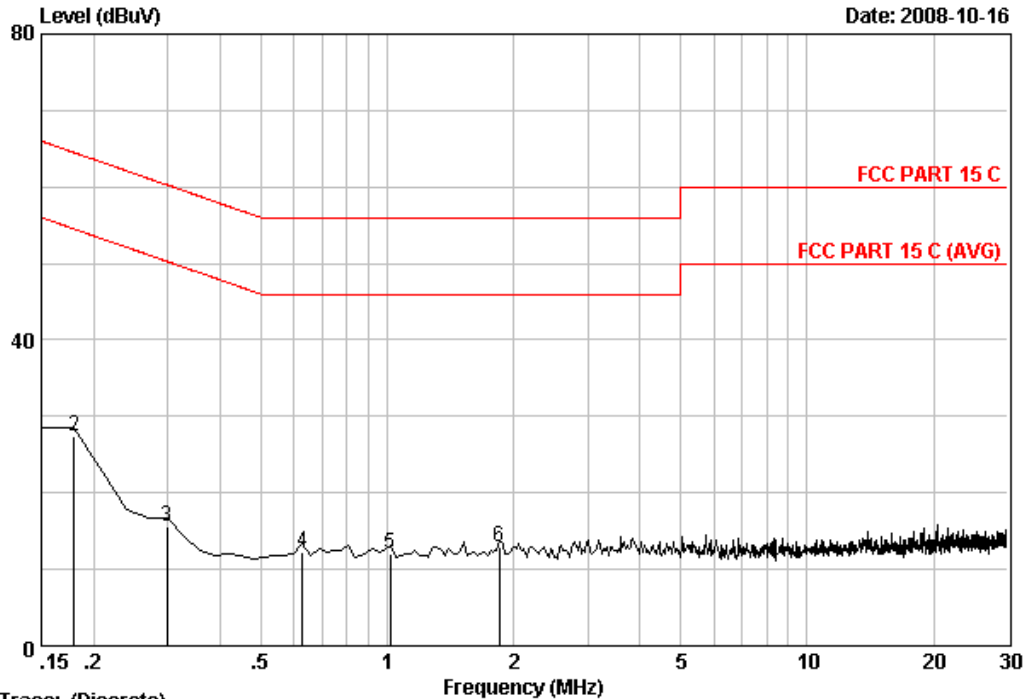
3.7.Power Line Conducted Emission Test Results

PASS.



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Data: 2 File: D:\DATA\2008 Report\H\HIP\ACS8Q1316.EMI (6)



Trace: (Discrete)

Site no :Audix No.1 Conduction Data no :2
 Dis./Ant. :-- KNW407 VA (1#) LISN phase:
 Limit :FCC PART 15 C
 Env./Ins. :25.9*C/55% ESHS10 Engineer :Mark
 EUT :Internet Radio M/N:Timber H
 Power Rating :AC 120V60Hz
 Test Mode :Tx Mode
 Memo :

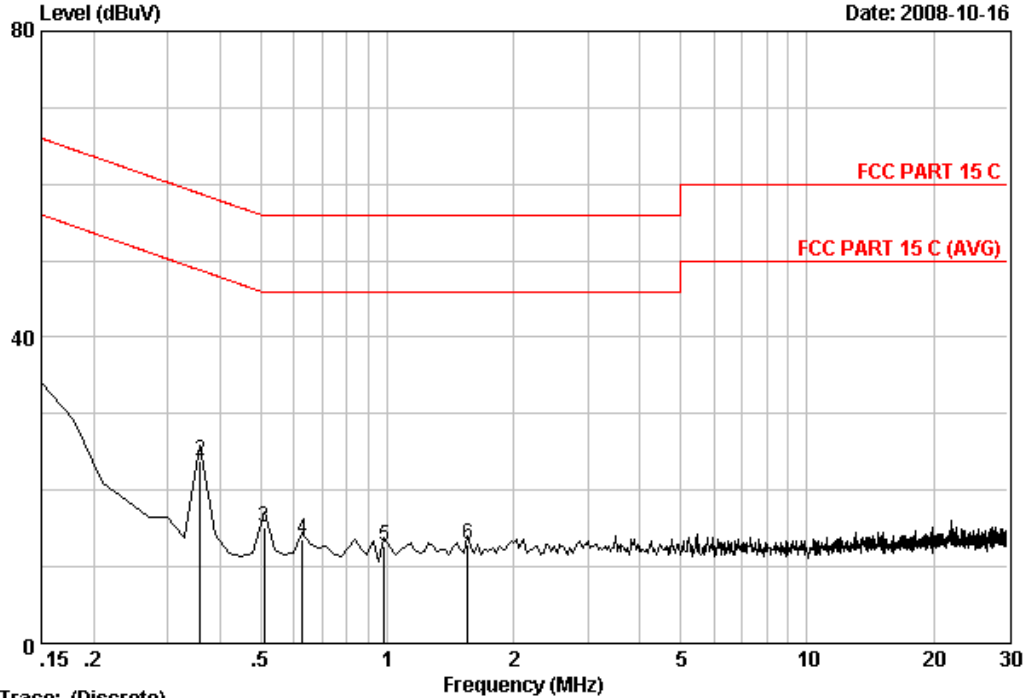
No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	0.22	9.93	16.90	27.05	66.00	38.95	QP
2	0.18	0.18	9.85	17.42	27.45	64.49	37.04	QP
3	0.30	0.12	9.86	5.70	15.68	60.26	44.58	QP
4	0.63	0.05	9.87	2.36	12.28	56.00	43.72	QP
5	1.02	0.04	9.87	2.15	12.06	56.00	43.94	QP
6	1.85	0.05	9.89	2.95	12.89	56.00	43.11	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.



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Trace: (Discrete)

Site no :Audix No.1 Conduction Data no :1
 Dis./Ant. :-- KNW407 VB (1#) LISN phase:
 Limit :FCC PART 15 C
 Env./Ins. :25.9*C/55% ESHS10 Engineer :Mark
 EUT :Internet Radio M/N:Timber H
 Power Rating :AC 120V60Hz
 Test Mode :Tx Mode
 Memo :

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	0.25	9.93	18.60	28.78	66.00	37.22	QP
2	0.36	0.10	9.87	13.90	23.87	58.75	34.88	QP
3	0.51	0.05	9.87	5.14	15.06	56.00	40.94	QP
4	0.63	0.04	9.87	3.58	13.49	56.00	42.51	QP
5	0.99	0.04	9.88	2.88	12.80	56.00	43.20	QP
6	1.55	0.05	9.89	3.07	13.01	56.00	42.99	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 TEST

4.1. Test Equipment

Frequency rang: 30~1000MHz

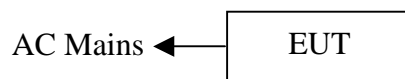
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber	AUDIX	N/A	N/A	Jun.09, 08	1/2 Year
2.	EMI Spectrum	Agilent	E7403A	MY42000106	May.10, 08	1 Year
3.	Test Receiver	Rohde & Schwarz	ESVS20	830350/005	May.10, 08	1 Year
4.	Amplifier	HP	8447D	2648A04738	Jul.08, 08	1/2 Year
5.	Bilog Antenna	Schaffner	CBL6112D	25237	Feb.21, 08	1 Year
6.	RF Cable	JINGCHENG	KLMR400	3# Chamber No.1	Jul.08, 08	1/2 Year
7.	RF Cable	JINGCHENG	JB Y400	3# Chamber No.2	Jul.08, 08	1/2 Year
8.	RF Cable	JINGCHENG	JB Y400	3# Chamber No.3	Jul.08, 08	1/2 Year
9.	RF Cable	JINGCHENG	JB Y400	3# Chamber No.4	Jul.08, 08	1/2 Year
10.	Coaxial Switch	Anritsu	MP59B	M73989	Jul.08, 08	1/2 Year

Frequency rang: above 1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	MY41440292	May 10, 08	1 Year
2.	Amp	HP	8449B	3008A00863	May 10, 08	1 Year
3.	Antenna	EMCO	3115	9607-4877	May 27, 08	1.5 Year
4.	Antenna	EMCO	3116	00060088	May 28, 07	1.5Year
5.	RF Cable	Hubersuhner	SUCOFLEX	182769/4	May 28, 08	1 Year
6.	RF Cable	Hubersuhner	SUCOFLEX	182768/4	May 28, 08	1 Year
7.	RF Cable	Hubersuhner	SUCOFLEX	182771/4	May 28, 08	1 Year

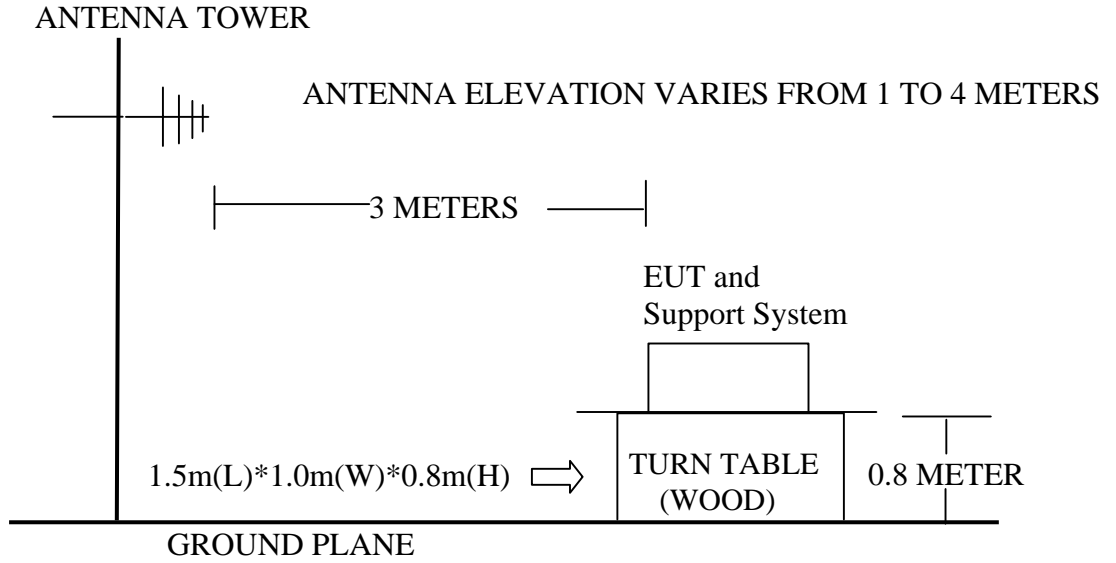
4.2. Block Diagram of Test Setup

4.2.1. Block diagram of connection between the EUT and simulators



(EUT: Internet Radio)

4.2.2. In Anechoic Chamber



4.3. Radiated Emission Limit

4.3.1.15.209 limits

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 1000	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.

4.3.2. 15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

All the emissions appearing within these frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

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. Internet Radio (EUT)

Model Number : Timber H
 Serial Number : N/A
 Manufacturer : DongGuan Zhi Cheng Electronic Products Co., Ltd.

4.5. Operating Condition of EUT

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

4.5.2. Turn on the power of all equipment.

4.5.3. Let the EUT worked in test mode (Tx Mode)

4.6. Test Procedure

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. Power on the EUT and let it work normally, we use a keyboard test soft ware, let EUT working in test mode, then test it. 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 are set on test.

The bandwidth of the EMI test receiver (R&S ESVS20) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 1MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

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

The test modes (IEEE 802.11b TX/ IEEE 802.11g TX) are tested in Anechoic Chamber and all the scanning waveforms are reported with antenna in horizontal and vertical polarization on Section 4.7.

4.7.Radiated Emission Test Results

PASS.

All the emissions from 30MHz to 25 GHz are comply with 15.209 limits

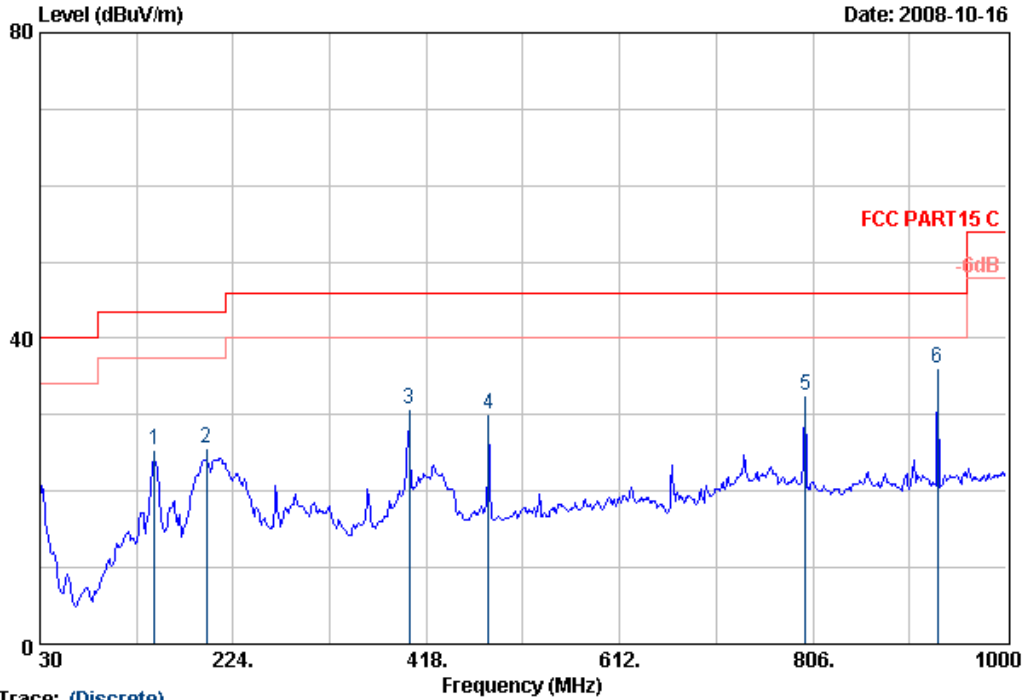
Frequency: 30MHz~1GHz



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Data: 2 File: D:\2008 Report Data\H\HIP\ACS8Q1316.EMI (8)

Date: 2008-10-16



Trace: (Discrete)

Site no. : 3# Chamber Radiation Data no. : 2
 Dis. / Ant. : 3m CBL6112D Ant. pol. : HORIZONTAL
 Limit : FCC PART15 C
 Env. / Ins. : 24°C/56% ESVS20 Engineer : Power
 EUT : Internet Radio M/N: Timber H
 Power Rating : AC 120V/60Hz
 Test Mode : Tx Mode

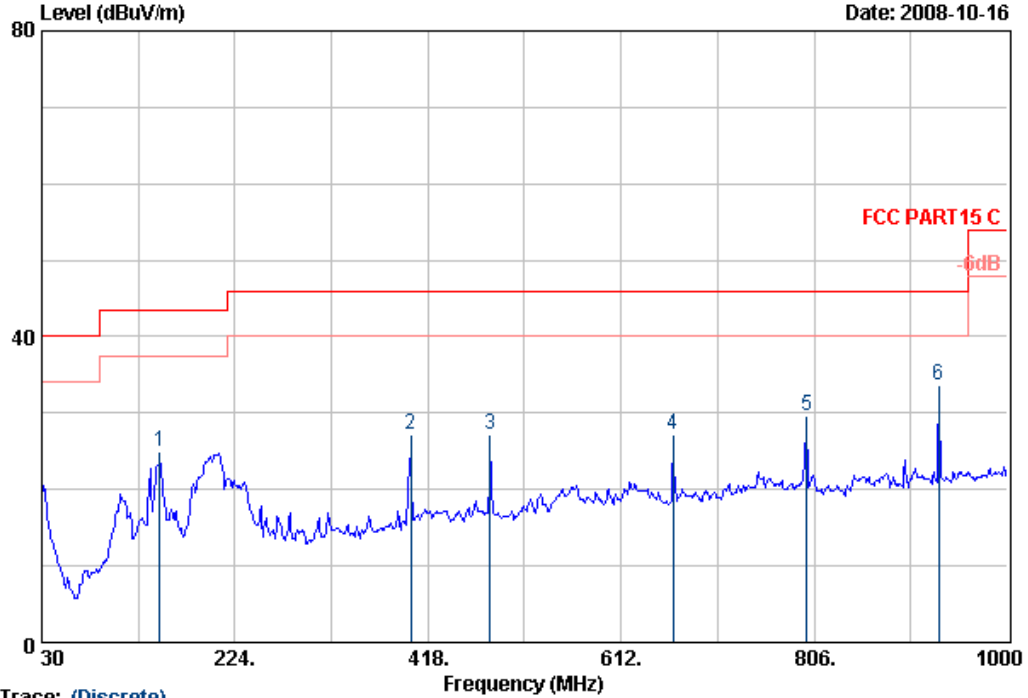
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	145.43	9.85	1.20	14.43	25.48	43.50	18.02	QP
2	196.84	9.25	1.34	14.94	25.53	43.50	17.97	QP
3	400.54	15.03	1.83	13.94	30.80	46.00	15.20	QP
4	480.08	17.60	1.93	10.53	30.06	46.00	15.94	QP
5	798.24	19.52	2.61	10.32	32.45	46.00	13.55	QP
6	931.13	20.36	2.73	13.09	36.18	46.00	9.82	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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Data: 1 File: D:\2008 Report Data\HHP\ACS8Q1316.EMI (8)



Trace: (Discrete)
 Site no. : 3# Chamber Radiation Data no. : 1
 Dis. / Ant. : 3m CBL6112D Ant. pol. : VERTICAL
 Limit : FCC PART15 C
 Env. / Ins. : 24*C/56% ESVS20 Engineer : Power
 EUT : Internet Radio M/N:Timber H
 Power Rating : AC 120V/60Hz
 Test Mode : Tx Mode

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Magin (dB)	Remark
1	148.34	9.98	1.21	13.80	24.99	43.50	18.51	QP
2	400.54	15.03	1.83	10.37	27.23	46.00	18.77	QP
3	480.08	17.60	1.93	7.68	27.21	46.00	18.79	QP
4	664.38	18.93	2.18	6.14	27.25	46.00	18.75	QP
5	798.24	19.52	2.61	7.57	29.70	46.00	16.30	QP
6	931.13	20.36	2.73	10.65	33.74	46.00	12.26	QP

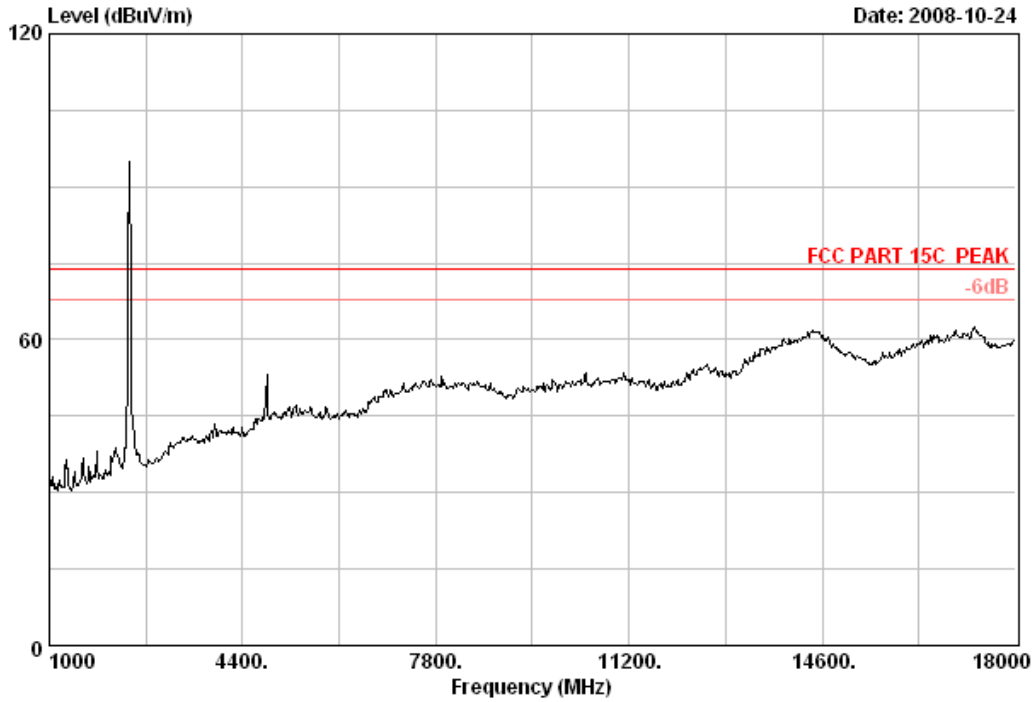
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Frequency: 1GHz~18GHz
 Test Mode: IEEE802.11b TX



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Data: 1 File: E:\2008 report data\H\hip\ACS8Q1316.EMI (40)



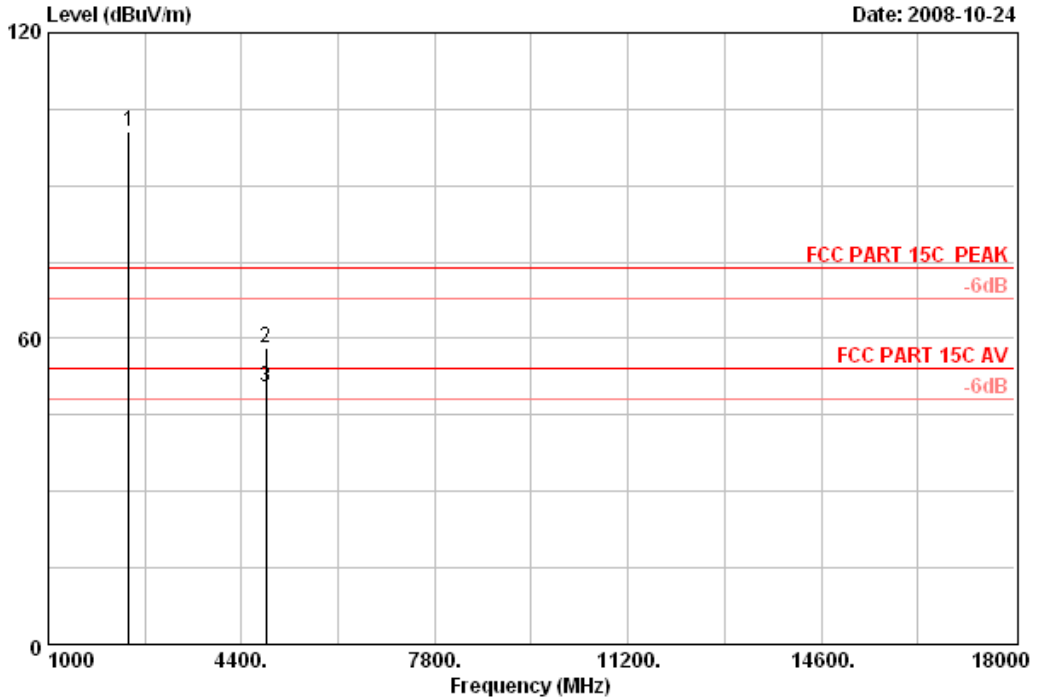
Site no. : 3# Chamber	Data no. : 1
Dis. / Ant. : 3m 3115	Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK	
Env. / Ins. : 23°C/54%	Engineer : Jamy
EUT : Internet Radio M/N: Timber H	
Power Rating: AC 120V/60Hz	
Test mode : IEEE 802.11b Tx CH1 2412MHz	
MEMO :	



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Data: 2 File: E:\2008 report data\Hhip\ACS8Q1316.EMI (40)

Date: 2008-10-24



Site no. : 3# Chamber Data no. : 2
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Internet Radio M/N:Timber H
 Power Rating: AC 120V/60Hz
 Test mode : IEEE 802.11b Tx CH1 2412MHz
 MEMO :

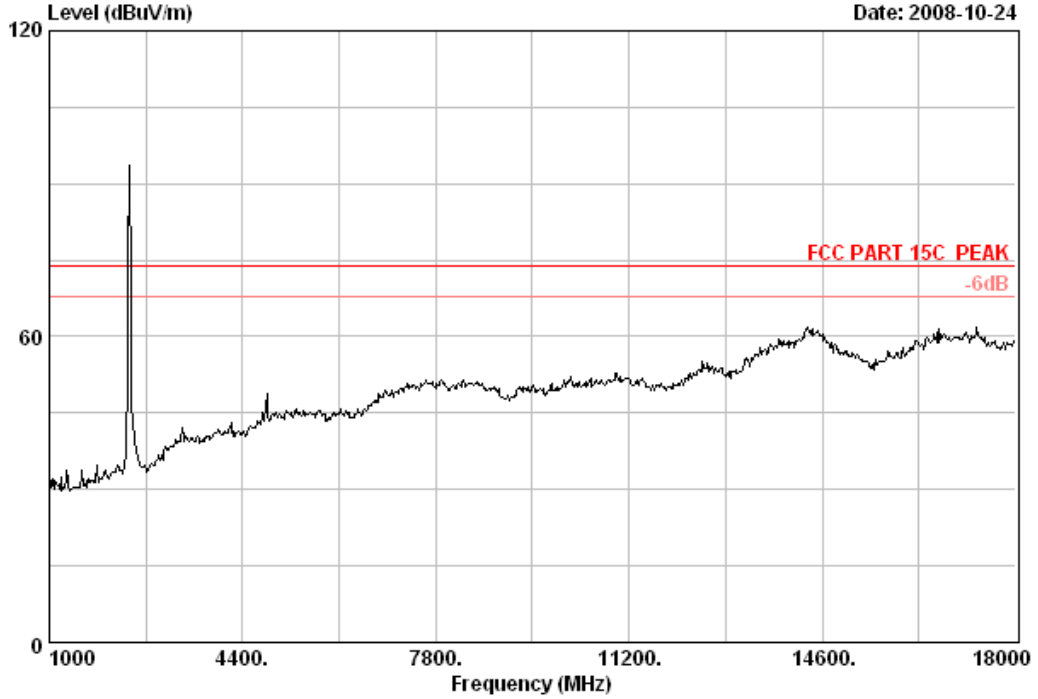
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	28.48	6.73	35.18	100.53	100.56	74.00	-26.56	Peak
2	4824.00	34.47	10.55	34.49	47.63	58.16	74.00	15.84	Peak
3	4824.00	34.47	10.55	34.49	39.91	50.44	54.00	3.56	Average

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



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Data: 3 File: E:\2008 report data\Hhip\ACS8Q1316.EMI (40)



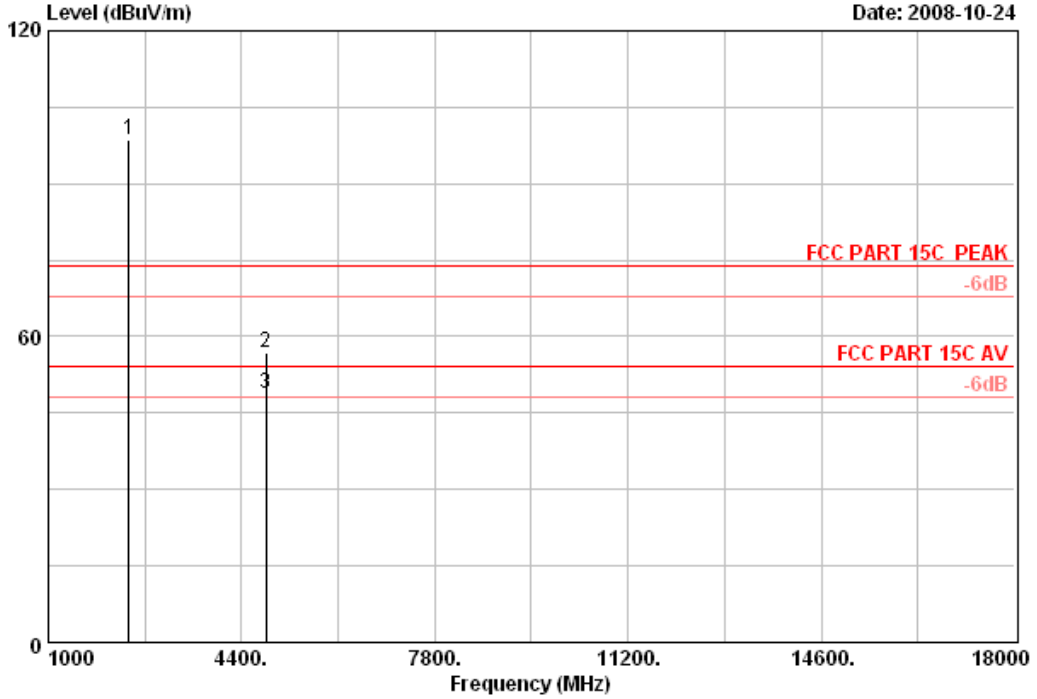
Site no. : 3# Chamber	Data no. : 3
Dis. / Ant. : 3m 3115	Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK	
Env. / Ins. : 23°C/54%	Engineer : Jamy
EUT : Internet Radio M/N:Timber H	
Power Rating: AC 120V/60Hz	
Test mode : IEEE 802.11b Tx CH1 2412MHz	
MEMO :	



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Data: 4 File: E:\2008 report data\Hhip\ACS8Q1316.EMI (40)

Date: 2008-10-24



Site no. : 3# Chamber Data no. : 4
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Internet Radio M/N:Timber H
 Power Rating: AC 120V/60Hz
 Test mode : IEEE 802.11b Tx CH1 2412MHz
 MEMO :

	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	2412.00	28.48	6.73	35.18	98.64	98.67	74.00	-24.67	Peak
2	4824.00	34.47	10.55	34.49	46.27	56.80	74.00	17.20	Peak
3	4824.00	34.47	10.55	34.49	38.43	48.96	54.00	5.04	Average

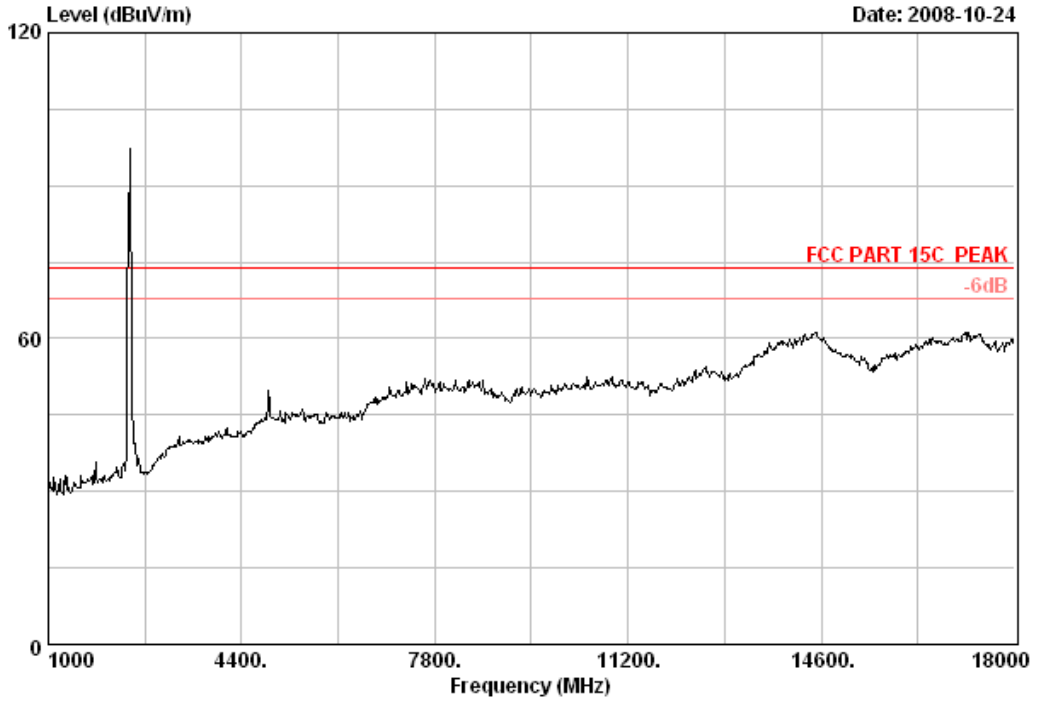
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 5 File: E:\2008 report data\H\hip\ACS801316.EMI (40)

Date: 2008-10-24



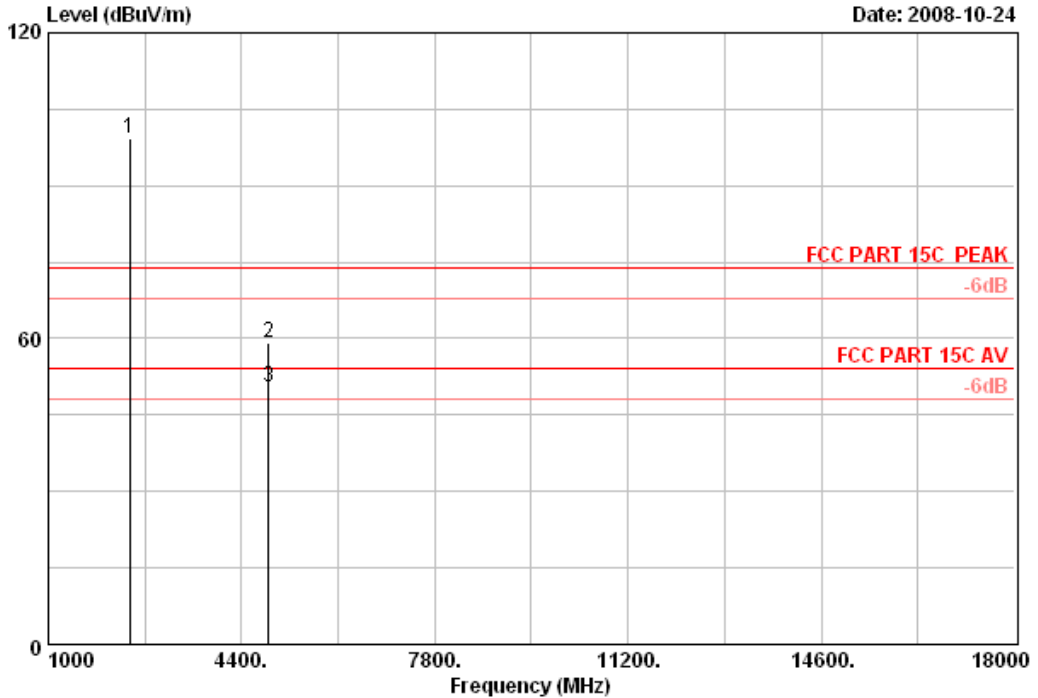
Site no.	: 3# Chamber	Data no.	: 5
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Jamy
EUT	: Internet Radio M/N:Timber H		
Power Rating:	AC 120V/60Hz		
Test mode	: IEEE 802.11b Tx CH6 2437MHz		
MEMO	:		



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Data: 6 File: E:\2008 report data\Hhip\ACS8Q1316.EMI (40)

Date: 2008-10-24



Site no. : 3# Chamber Data no. : 6
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Internet Radio M/N: Timber H
 Power Rating: AC 120V/60Hz
 Test mode : IEEE 802.11b Tx CH6 2437MHz
 MEMO :

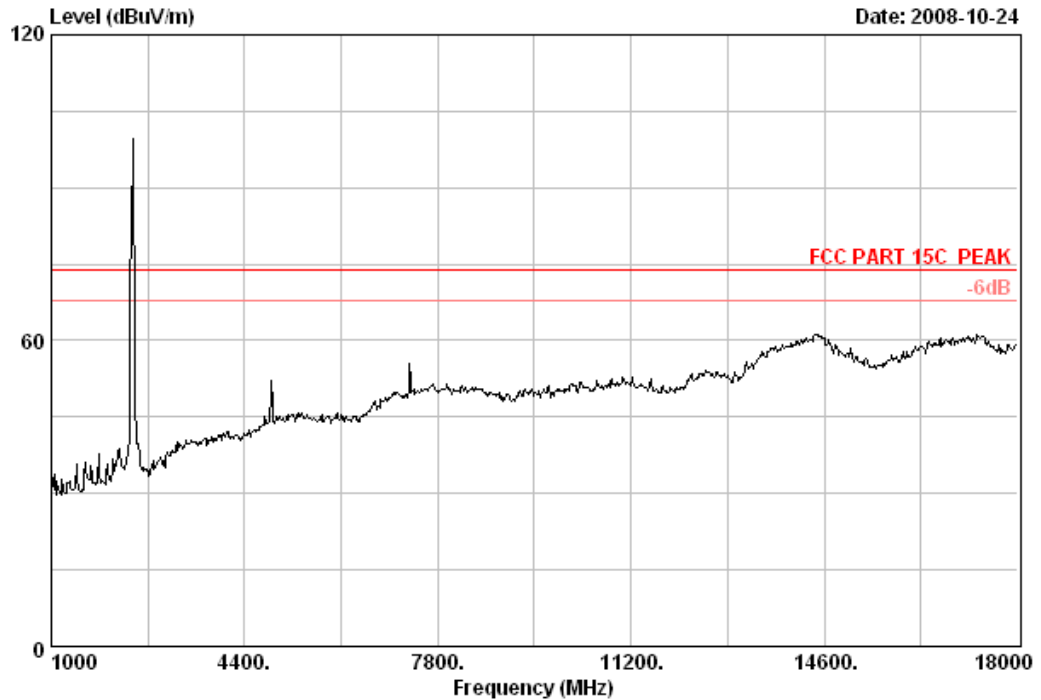
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	28.53	6.80	35.17	99.22	99.38	74.00	-25.38	Peak
2	4874.00	34.78	10.56	34.48	48.36	59.22	74.00	14.78	Peak
3	4874.00	34.78	10.56	34.48	39.61	50.47	54.00	3.53	Average

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



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Data: 7 File: E:\2008 report data\Hhip\ACS801316.EMI (40)



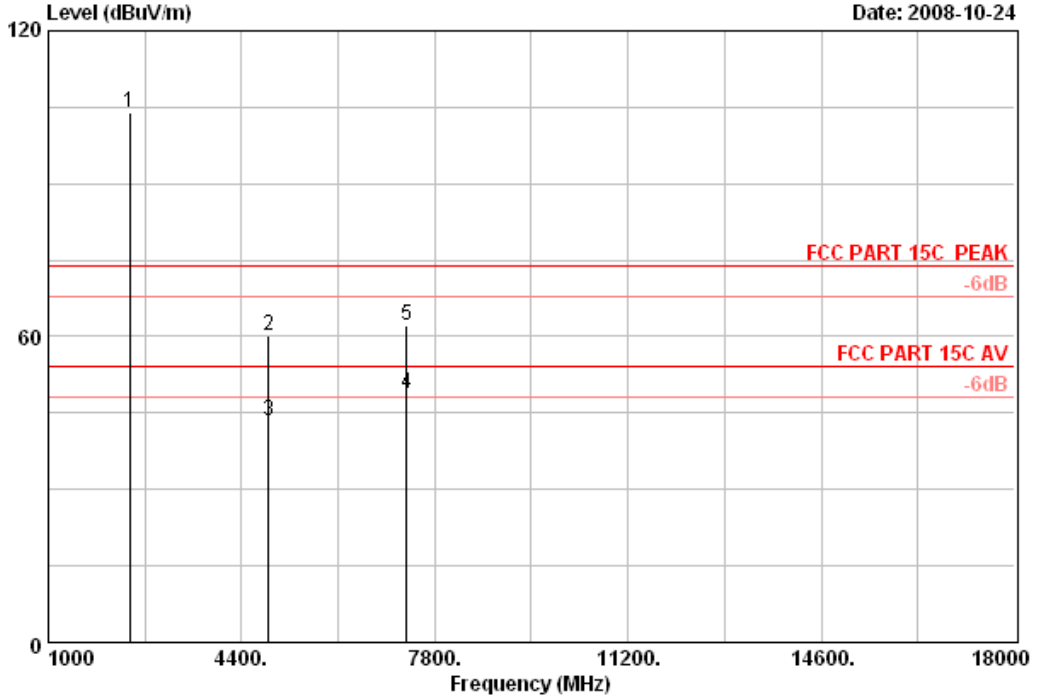
Site no. : 3# Chamber	Data no. : 7
Dis. / Ant. : 3m 3115	Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK	
Env. / Ins. : 23°C/54%	Engineer : Jamy
EUT : Internet Radio M/N:Timber H	
Power Rating: AC 120V/60Hz	
Test mode : IEEE 802.11b Tx CH6 2437MHz	
MEMO :	



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Data: 8 File: E:\2008 report data\Hhip\ACS801316.EMI (40)

Date: 2008-10-24



Site no. : 3# Chamber Data no. : 8
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Internet Radio M/N: Timber H
 Power Rating: AC 120V/60Hz
 Test mode : IEEE 802.11b Tx CH6 2437MHz
 MEMO :

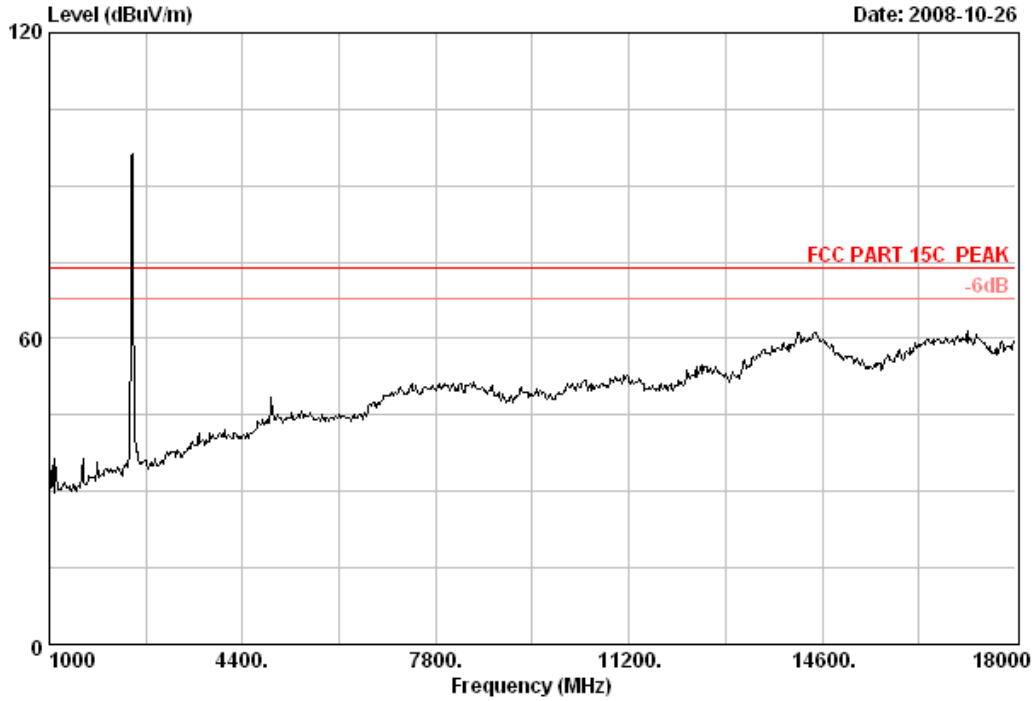
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	28.53	6.80	35.17	103.84	104.00	74.00	-30.00	Peak
2	4874.00	34.78	10.56	34.48	49.21	60.07	74.00	13.93	Peak
3	4874.00	34.78	10.56	34.48	32.74	43.60	54.00	10.40	Average
4	7311.00	38.58	12.17	34.46	32.53	48.82	54.00	5.18	Average
5	7311.00	38.58	12.17	34.46	45.77	62.06	74.00	11.94	Peak

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



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Data: 9 File: E:\2008 report data\Hhip\ACS801316.EMI (40)



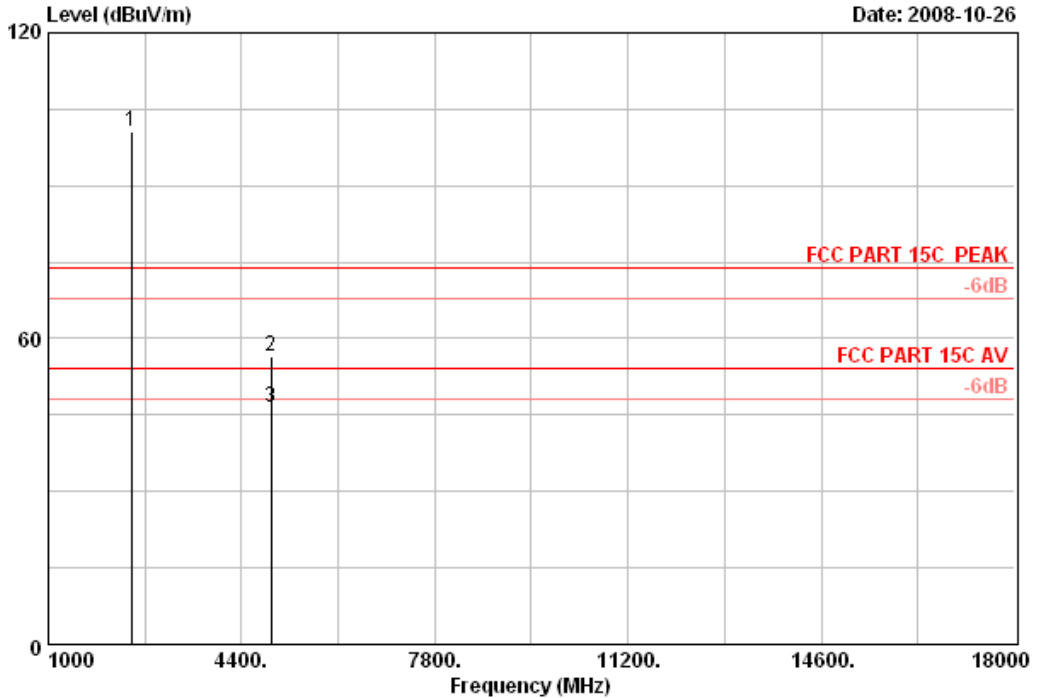
Site no. : 3# Chamber Data no. : 9
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Internet Radio M/N: Timber H
 Power Rating: AC 120V/60Hz
 Test mode : IEEE 802.11b Tx CH11 2462MHz
 MEMO :



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Data: 10 File: E:\2008 report data\Hhip\ACS8Q1316.EMI (40)

Date: 2008-10-26



Site no. : 3# Chamber Data no. : 10
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Internet Radio M/N: Timber H
 Power Rating: AC 120V/60Hz
 Test mode : IEEE 802.11b Tx CH11 2462MHz
 MEMO :

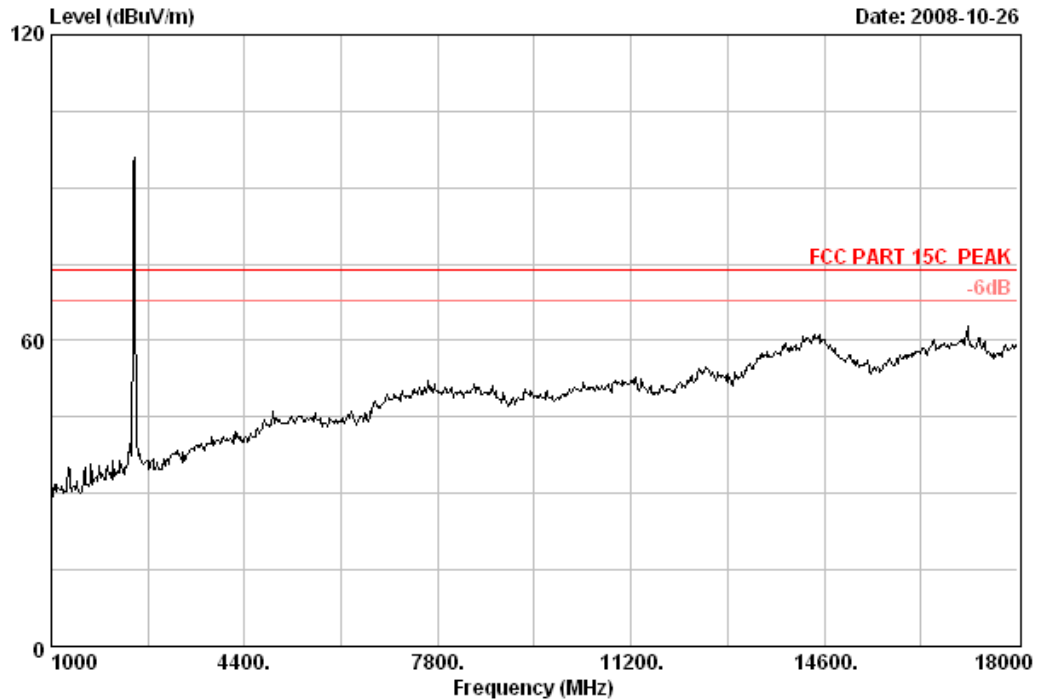
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	28.55	6.84	35.17	100.40	100.62	74.00	-26.62	Peak
2	4924.00	35.09	10.58	34.47	45.25	56.45	74.00	17.55	Peak
3	4924.00	35.09	10.58	34.47	35.21	46.41	54.00	7.59	Average

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



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Data: 11 File: E:\2008 report data\Hhip\ACS801316.EMI (40)



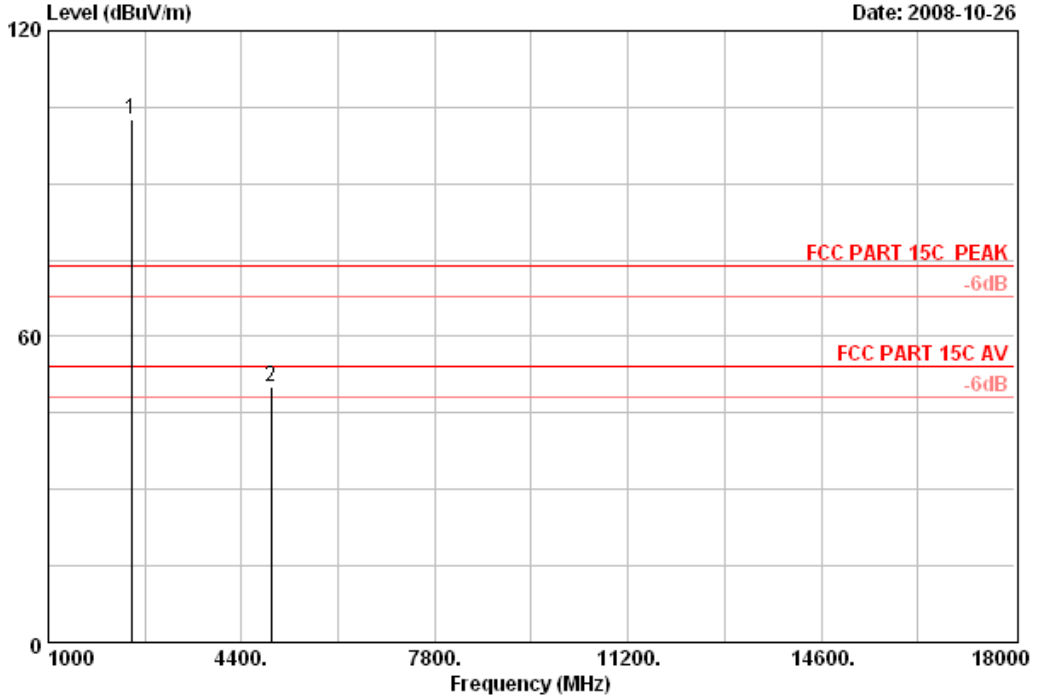
Site no. : 3# Chamber	Data no. : 11
Dis. / Ant. : 3m 3115	Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK	
Env. / Ins. : 23°C/54%	Engineer : Jamy
EUT : Internet Radio M/N: Timber H	
Power Rating: AC 120V/60Hz	
Test mode : IEEE 802.11b Tx CH11 2462MHz	
MEMO :	



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Data: 12 File: E:\2008 report data\Hhip\ACS801316.EMI (40)

Date: 2008-10-26



Site no. : 3# Chamber Data no. : 12
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Internet Radio M/N: Timber H
 Power Rating: AC 120V/60Hz
 Test mode : IEEE 802.11b Tx CH11 2462MHz
 MEMO :

	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	2462.00	28.55	6.84	35.17	102.30	102.52	74.00	-28.52	Peak
2	4924.00	35.09	10.58	34.47	38.78	49.98	74.00	24.02	Peak

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

Test Mode: IEEE802.11g TX

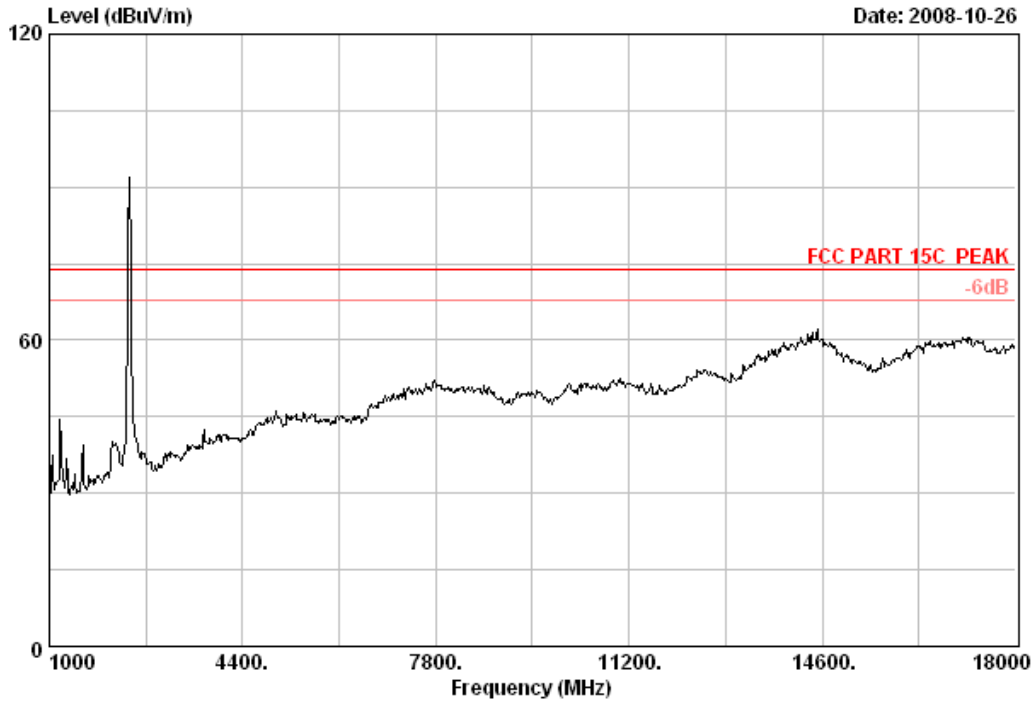


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Data: 13

File: E:\2008 report data\H\hip\ACS8Q1316.EMI (40)

Date: 2008-10-26



Site no. : 3# Chamber
Dis. / Ant. : 3m 3115
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
EUT : Internet Radio M/N: Timber H
Power Rating: AC 120V/60Hz
Test mode : IEEE 802.11g Tx CH1 2412MHz
MEMO :

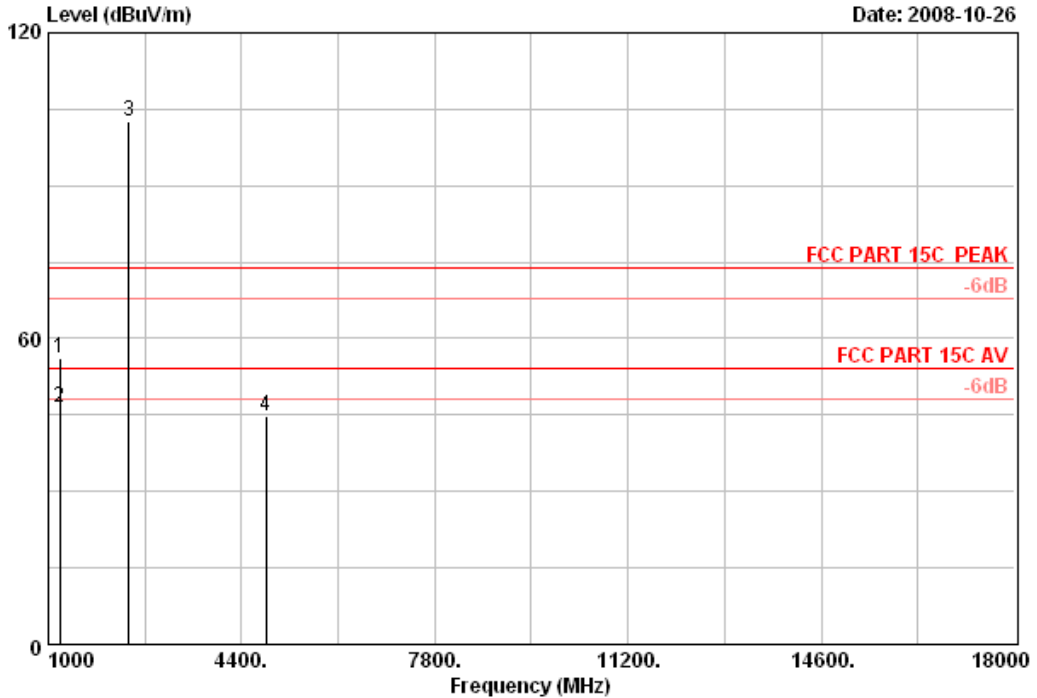
Data no. : 13
Ant. pol. : VERTICAL
Engineer : Jamy



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Data: 14 File: E:\2008 report data\Hhip\ACS801316.EMI (40)

Date: 2008-10-26



Site no. : 3# Chamber Data no. : 14
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Internet Radio M/N: Timber H
 Power Rating: AC 120V/60Hz
 Test mode : IEEE 802.11g Tx CH1 2412MHz
 MEMO :

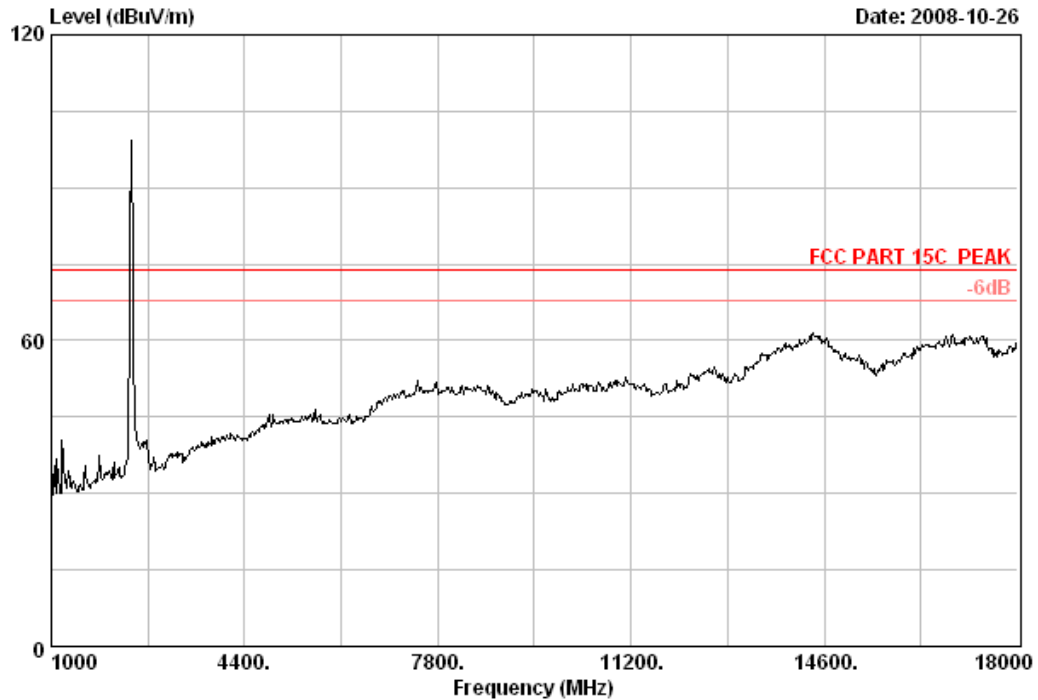
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1204.00	25.49	4.78	36.02	61.85	56.10	74.00	17.90	Peak
2	1204.00	25.49	4.78	36.02	52.12	46.37	54.00	7.63	Average
3	2411.00	28.48	6.73	35.18	102.75	102.78	74.00	-28.78	Peak
4	4824.00	34.47	10.55	34.49	34.24	44.77	74.00	29.23	Peak

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



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Data: 15 File: E:\2008 report data\Hhip\ACS801316.EMI (40)



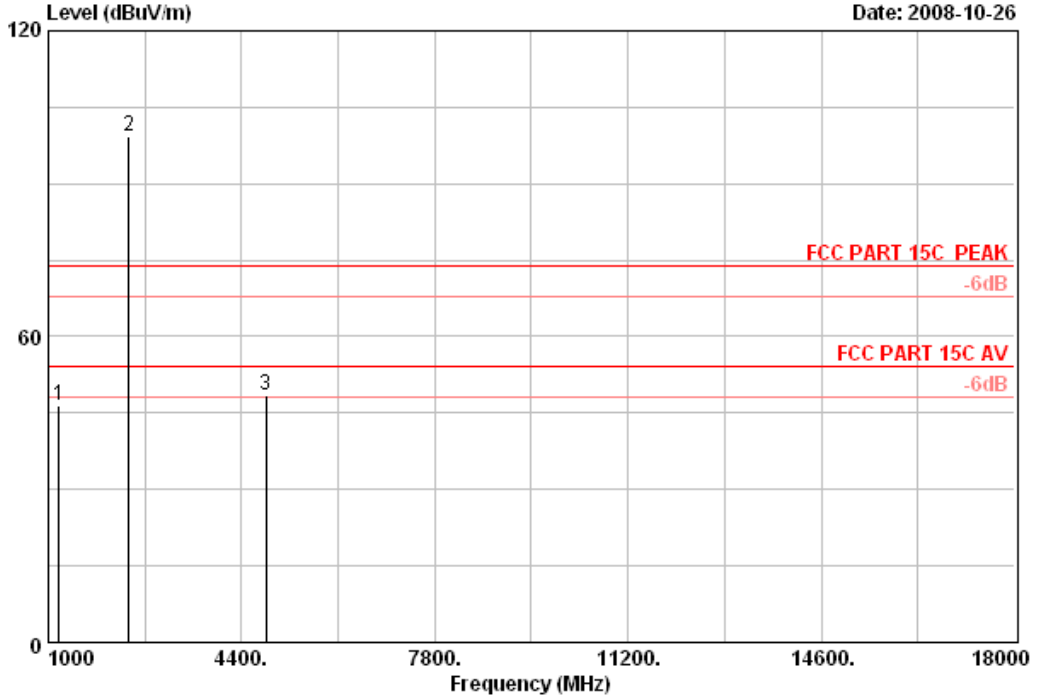
Site no.	: 3# Chamber	Data no.	: 15
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Jamy
EUT	: Internet Radio M/N:Timber H		
Power Rating:	AC 120V/60Hz		
Test mode	: IEEE 802.11g Tx CH1 2412MHz		
MEMO	:		



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Data: 16 File: E:\2008 report data\Hhip\ACS801316.EMI (40)

Date: 2008-10-26



Site no. : 3# Chamber Data no. : 16
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Internet Radio M/N:Timber H
 Power Rating: AC 120V/60Hz
 Test mode : IEEE 802.11g Tx CH1 2412MHz
 MEMO :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1187.00	25.47	4.74	36.04	52.13	46.30	74.00	27.70	Peak
2	2412.00	28.48	6.73	35.18	99.40	99.43	74.00	-25.43	Peak
3	4824.00	34.47	10.55	34.49	38.06	48.59	74.00	25.41	Peak

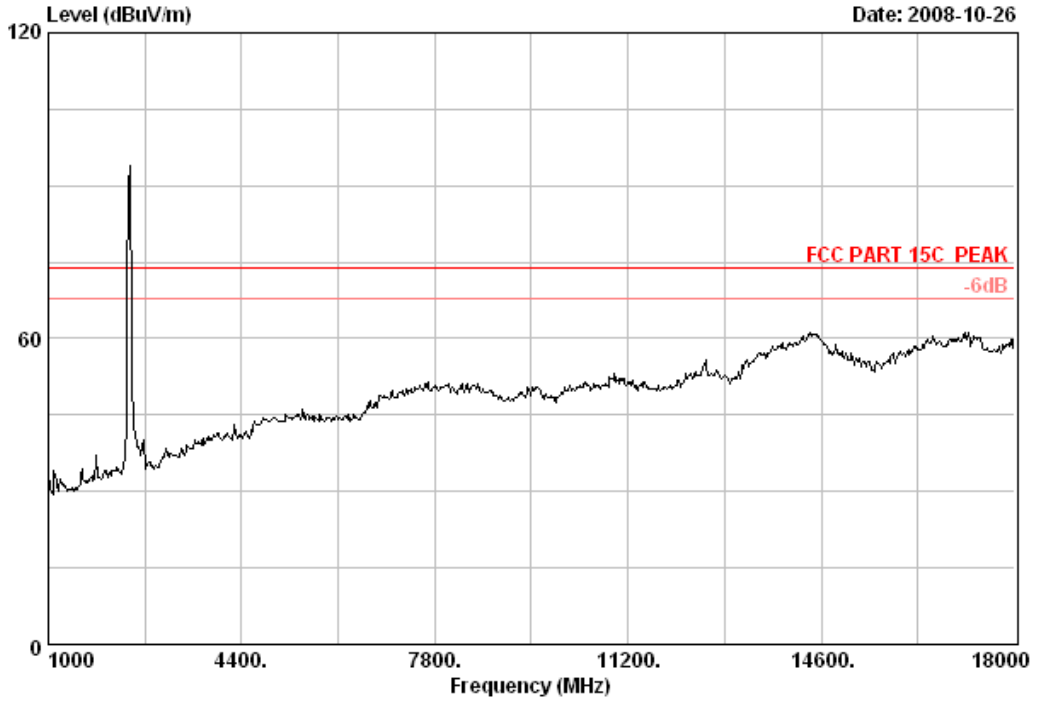
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 17 File: E:\2008 report data\Hhip\ACS8Q1316.EMI (40)

Date: 2008-10-26



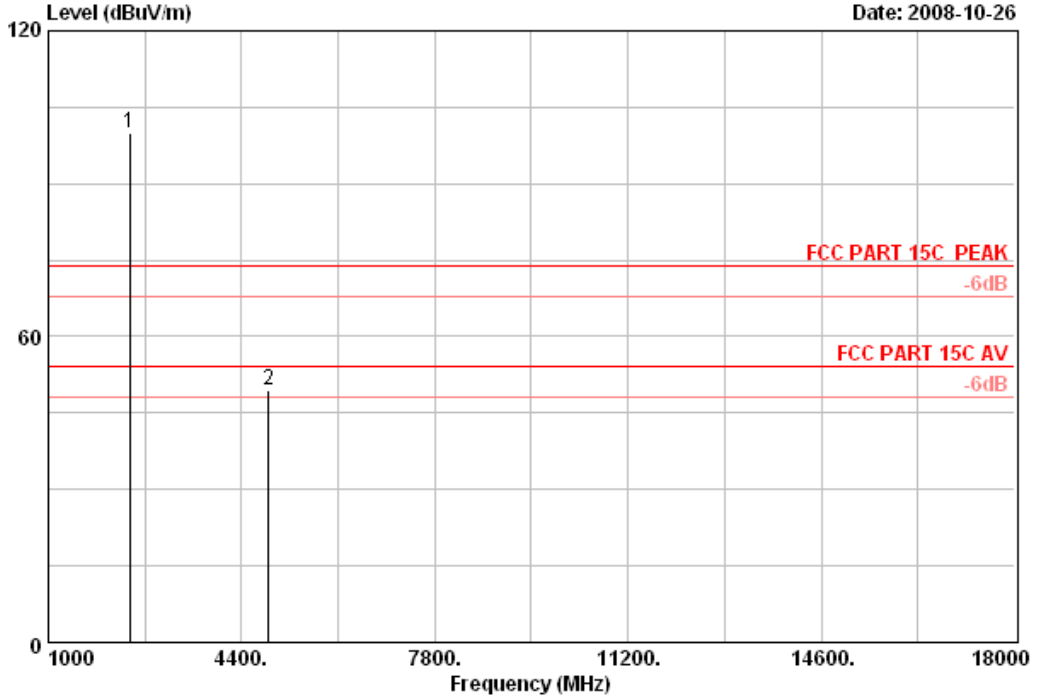
Site no. : 3# Chamber	Data no. : 17
Dis. / Ant. : 3m 3115	Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK	
Env. / Ins. : 23°C/54%	Engineer : Jamy
EUT : Internet Radio M/N:Timber H	
Power Rating: AC 120V/60Hz	
Test mode : IEEE 802.11g Tx CH6 2437MHz	
MEMO :	



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Data: 18 File: E:\2008 report data\Hhip\ACS801316.EMI (40)

Date: 2008-10-26



Site no. : 3# Chamber Data no. : 18
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Internet Radio M/N:Timber H
 Power Rating: AC 120V/60Hz
 Test mode : IEEE 802.11g Tx CH6 2437MHz
 MEMO :

	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	2437.00	28.53	6.80	35.17	99.68	99.84	74.00	-25.84	Peak
2	4874.00	34.78	10.56	34.48	38.52	49.38	74.00	24.62	Peak

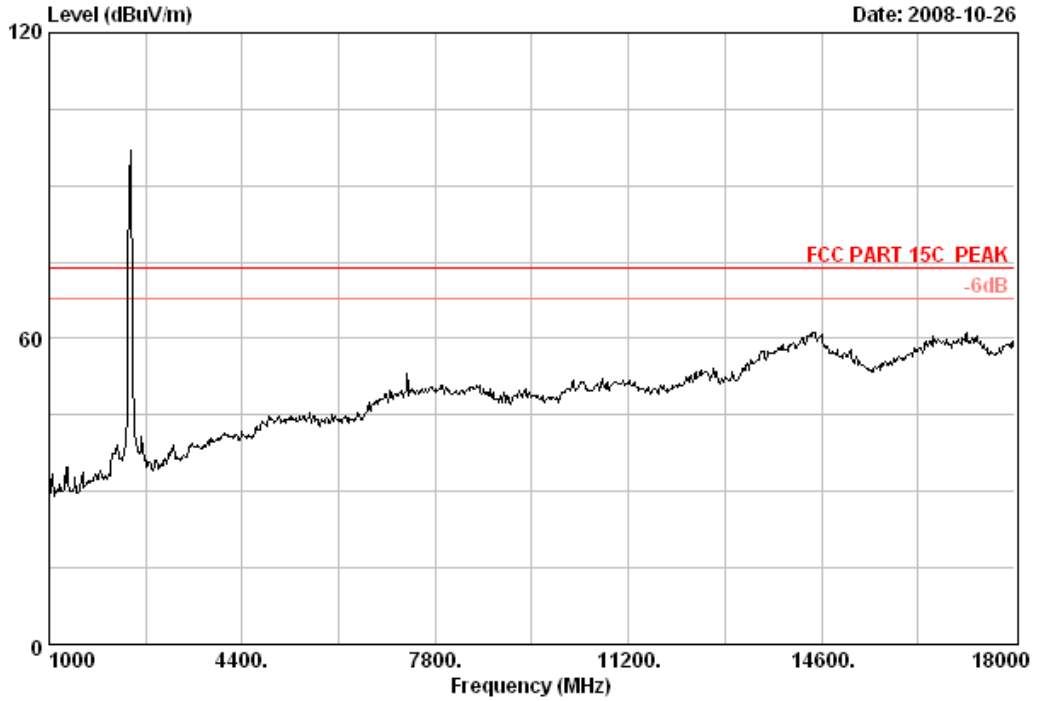
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 19 File: E:\2008 report data\Hhip\ACS8Q1316.EMI (40)

Date: 2008-10-26



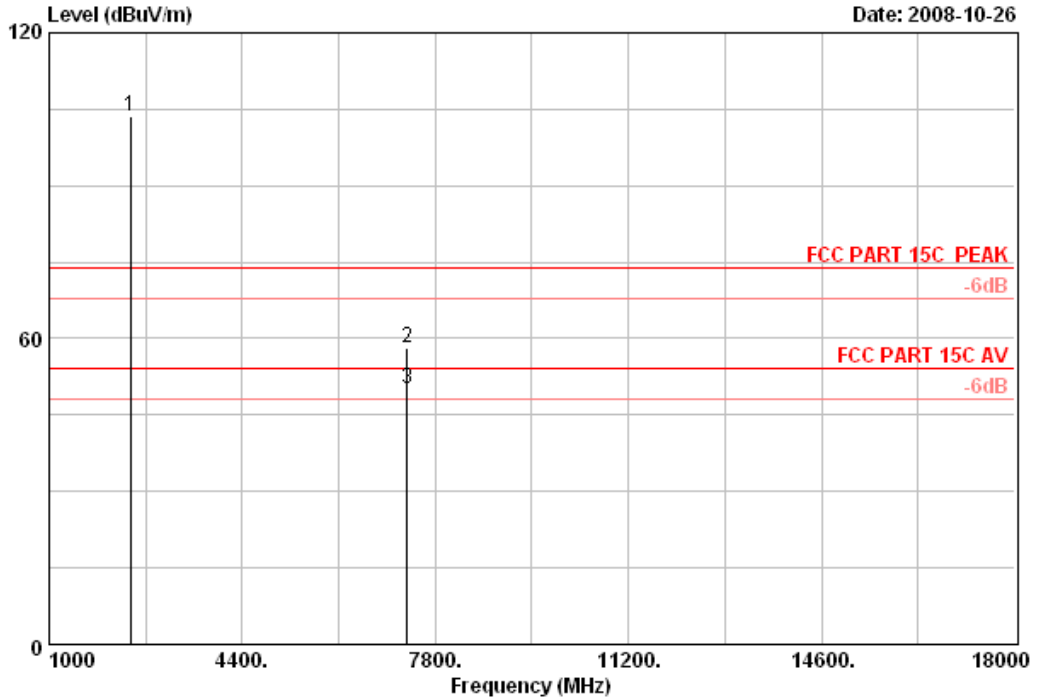
Site no. : 3# Chamber Data no. : 19
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Internet Radio M/N:Timber H
 Power Rating: AC 120V/60Hz
 Test mode : IEEE 802.11g Tx CH6 2437MHz
 MEMO :



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Data: 20 File: E:\2008 report data\Hhip\ACS8Q1316.EMI (40)

Date: 2008-10-26



Site no. : 3# Chamber Data no. : 20
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Internet Radio M/N: Timber H
 Power Rating: AC 120V/60Hz
 Test mode : IEEE 802.11g Tx CH6 2437MHz
 MEMO :

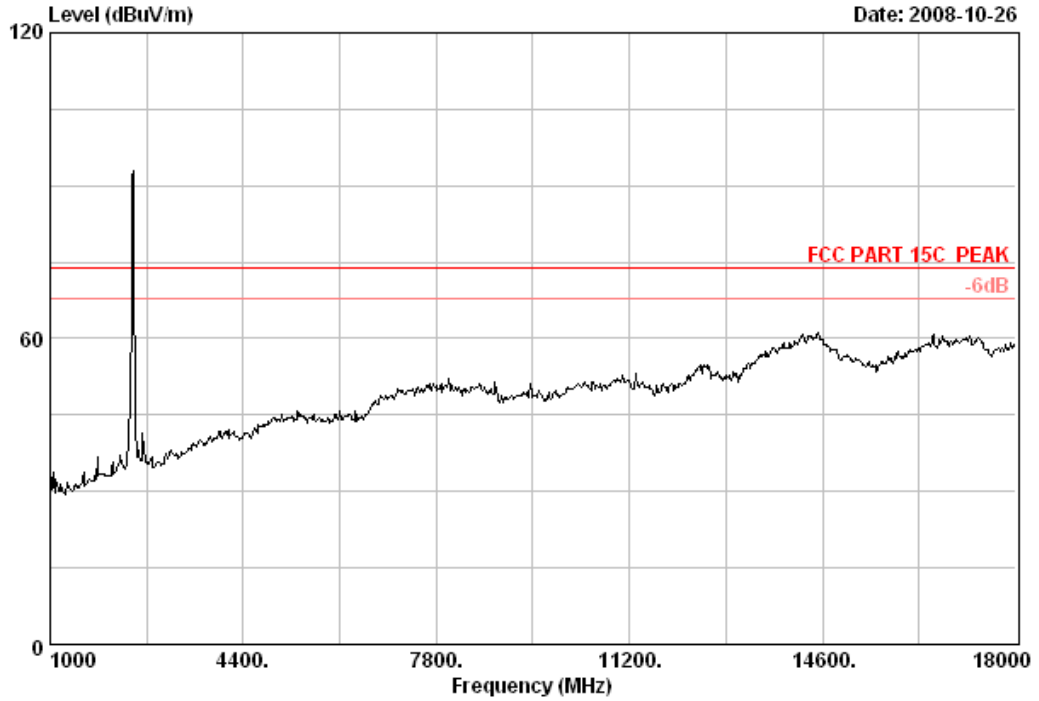
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	28.53	6.80	35.17	103.40	103.56	74.00	-29.56	Peak
2	7311.00	38.58	12.17	34.46	41.76	58.05	74.00	15.95	Peak
3	7311.00	38.58	12.17	34.46	33.69	49.98	54.00	4.02	Average

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



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Data: 21 File: E:\2008 report data\Hhip\ACS8Q1316.EMI (40)



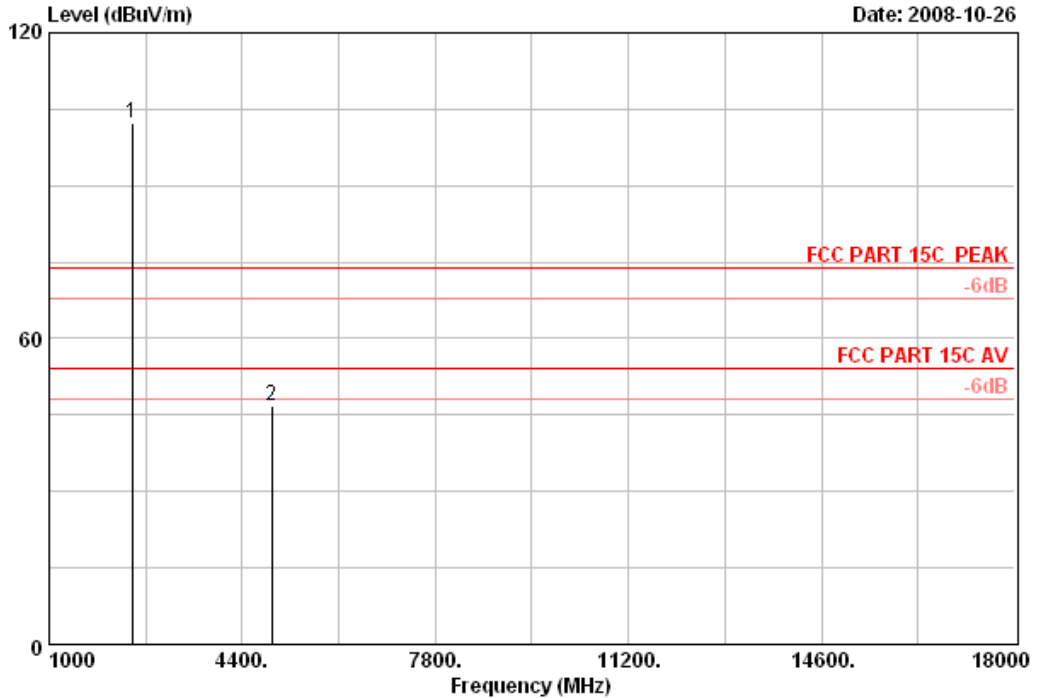
Site no. : 3# Chamber Data no. : 21
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Internet Radio M/N:Timber H
 Power Rating: AC 120V/60Hz
 Test mode : IEEE 802.11g Tx CH11 2462MHz
 MEMO :



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Data: 22 File: E:\2008 report data\Hhip\ACS8Q1316.EMI (40)

Date: 2008-10-26



Site no. : 3# Chamber Data no. : 22
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Internet Radio M/N:Timber H
 Power Rating: AC 120V/60Hz
 Test mode : IEEE 802.11g Tx CH11 2462MHz
 MEMO :

	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	2462.00	28.55	6.84	35.17	102.11	102.33	74.00	-28.33	Peak
2	4924.00	35.09	10.58	34.47	35.67	46.87	74.00	27.13	Peak

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

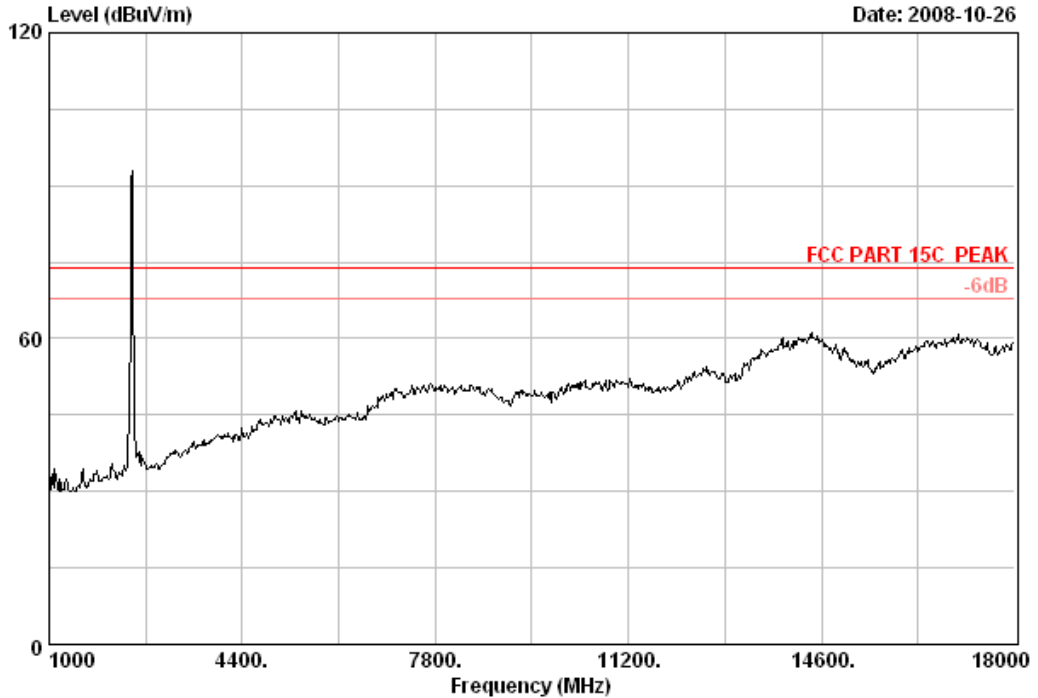


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Postcode:518057

Data: 23

File: E:\2008 report data\Hhip\ACS8Q1316.EMI (40)

Date: 2008-10-26



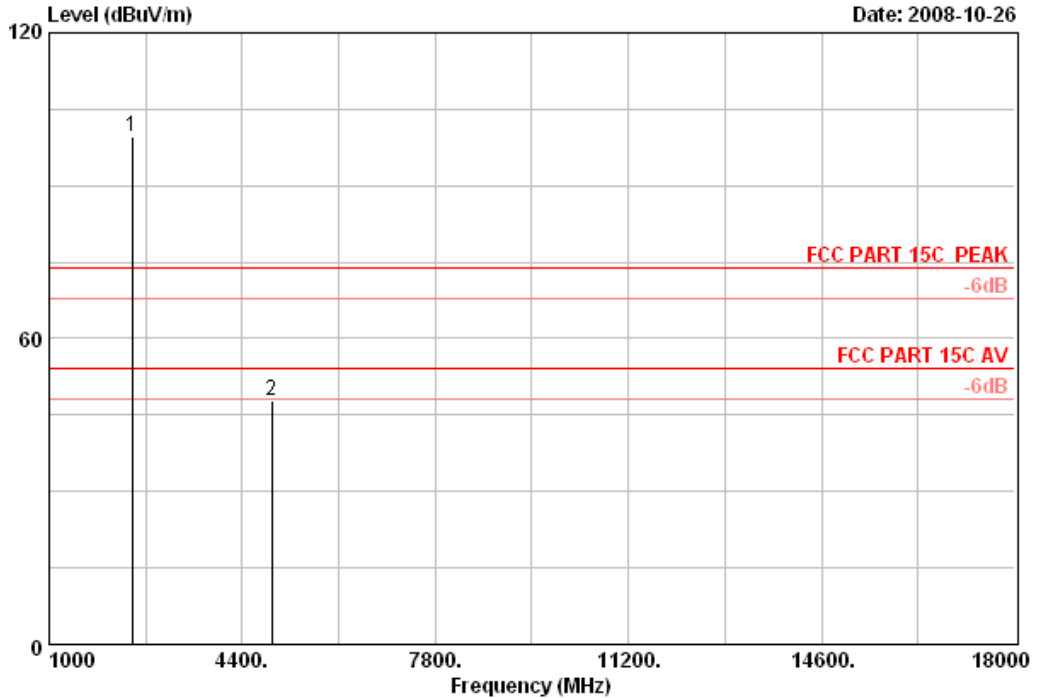
Site no.	: 3# Chamber	Data no.	: 23
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Jamy
EUT	: Internet Radio M/N:Timber H		
Power Rating:	AC 120V/60Hz		
Test mode	: IEEE 802.11g Tx CH11 2462MHz		
MEMO	:		



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Data: 24 File: E:\2008 report data\Hhip\ACS8Q1316.EMI (40)

Date: 2008-10-26



Site no. : 3# Chamber Data no. : 24
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Internet Radio M/N:Timber H
 Power Rating: AC 120V/60Hz
 Test mode : IEEE 802.11g Tx CH11 2462MHz
 MEMO :

	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	2462.00	28.55	6.84	35.17	99.26	99.48	74.00	-25.48	Peak
2	4924.00	35.09	10.58	34.47	36.59	47.79	74.00	26.21	Peak

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

5. BAND EDGE COMPLIANCE

5.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May,10, 08	1 Year
2	Horn Antenna	EMCO	3115	9607-4877	May,27, 08	1.5 Year
3	Amplifier	HP	8449B	3008A00863	May,10, 08	1 Year
4	RF Cable	Hubersuhner	SUCOFLEX	182769/4	May,28, 08	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX	182768/4	May,28, 08	1 Year
6	RF Cable	Hubersuhner	SUCOFLEX	182771/4	May,28, 08	1 Year

5.2. Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

5.3. Test Produce

1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upperband-edges of the emission:
 - (a) PEAK Level measure: RBW=VBW=1MHz / Sweep=AUTO/PK Detector
 - (b) AVERAGE Level measure: RBW=1MHz / VBW=10Hz / Sweep=AUTO /PK Detector.

5.4. Test Results

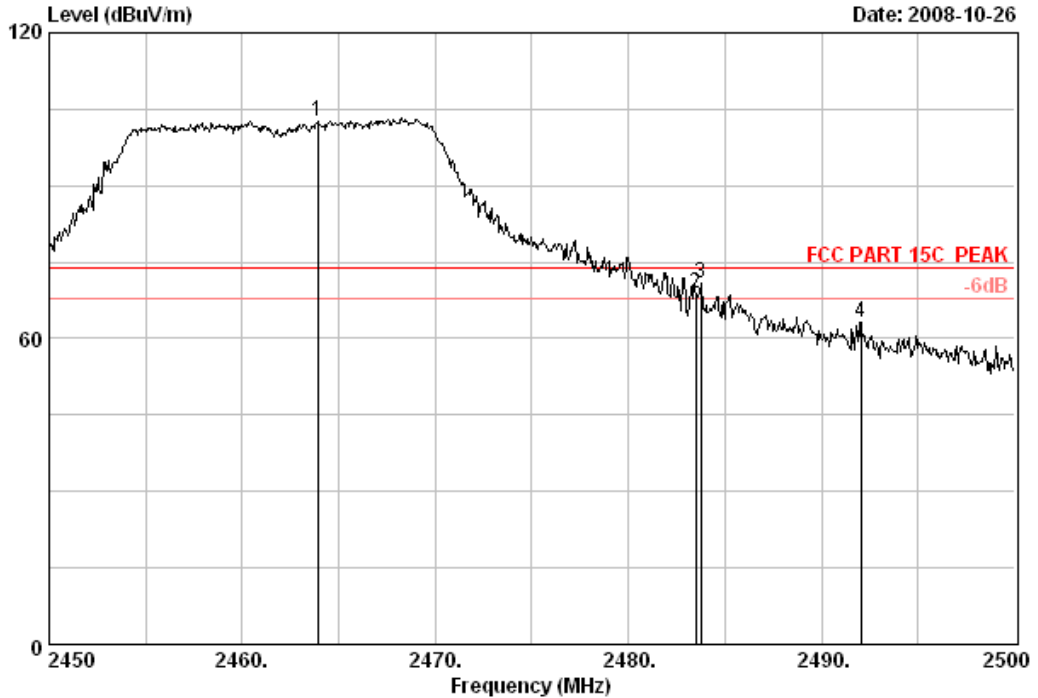
Pass (The testing data was attached in the next pages.)



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Date: 2008-10-26



Site no. : 3# Chamber Data no. : 25
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Internet Radio M/N: Timber H
 Power Rating: AC 120V/60Hz
 Test mode : IEEE 802.11g Tx CH11 2462MHz
 MEMO :

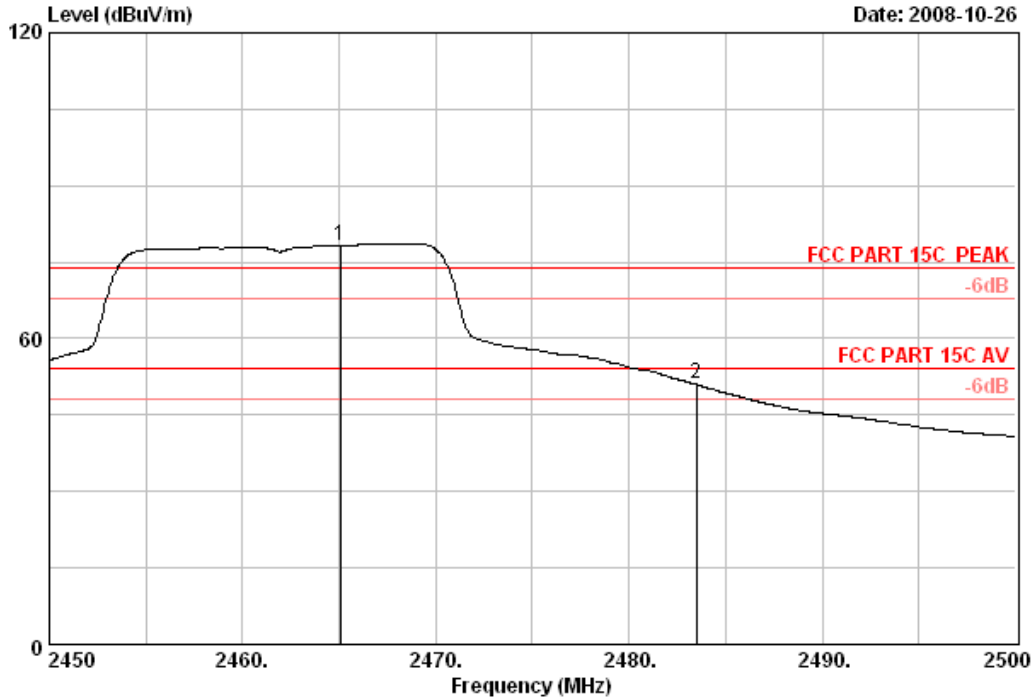
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2463.90	28.55	6.84	35.16	102.50	102.73	74.00	-28.73	Peak
2	2483.50	28.58	6.87	35.16	68.55	68.84	74.00	5.16	Peak
3	2483.75	28.58	6.87	35.16	70.45	70.74	74.00	3.26	Peak
4	2492.05	28.60	6.91	35.15	62.75	63.11	74.00	10.89	Peak

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



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Data: 26 File: E:\2008 report data\Hhip\ACS801316.EMI (40)



Site no. : 3# Chamber Data no. : 26
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Internet Radio M/N: Timber H
 Power Rating: AC 120V/60Hz
 Test mode : IEEE 802.11g Tx CH11 2462MHz
 MEMO :

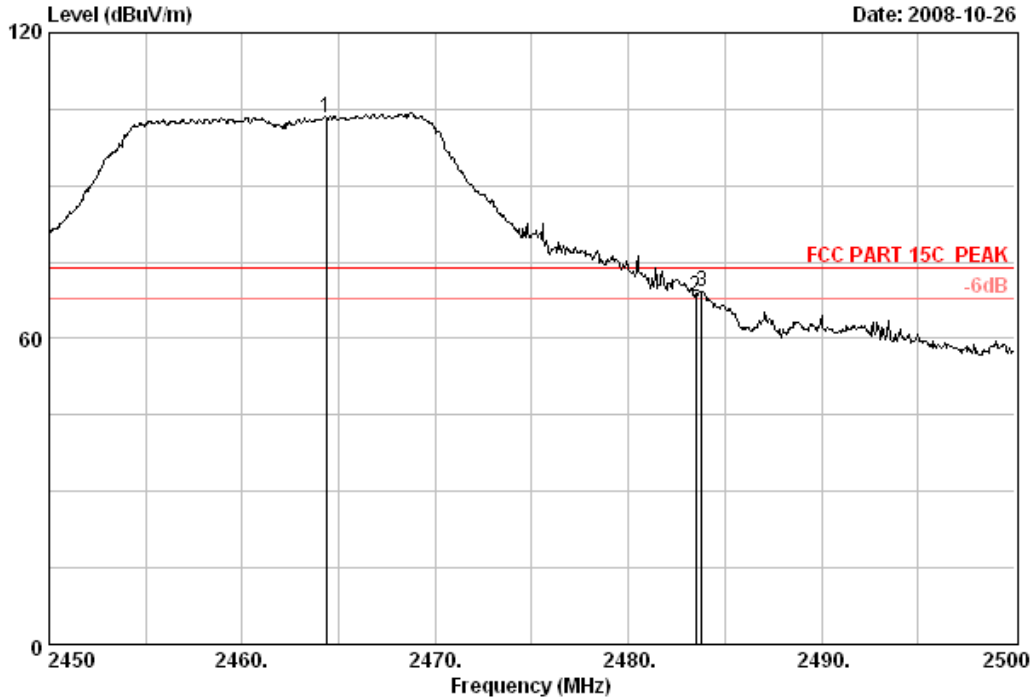
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2465.05	28.55	6.84	35.16	78.06	78.29	54.00	-24.29	Average
2	2483.50	28.58	6.87	35.16	50.72	51.01	54.00	2.99	Average

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



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Data: 27 File: E:\2008 report data\Hhip\ACS8Q1316.EMI (40)



Site no. : 3# Chamber Data no. : 27
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Internet Radio M/N:Timber H
 Power Rating: AC 120V/60Hz
 Test mode : IEEE 802.11g Tx CH11 2462MHz
 MEMO :

	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	2464.35	28.55	6.84	35.16	103.09	103.32	74.00	-29.32	Peak
2	2483.50	28.58	6.87	35.16	67.94	68.23	74.00	5.77	Peak
3	2483.80	28.58	6.87	35.16	68.89	69.18	74.00	4.82	Peak

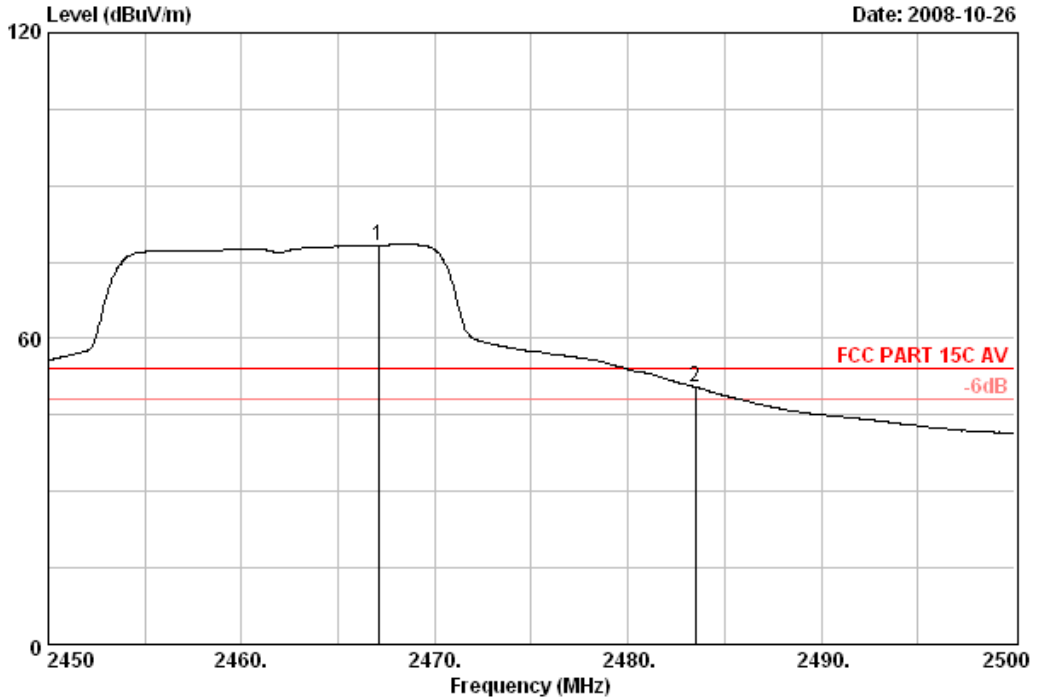
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 28 File: E:\2008 report data\Hhip\ACS801316.EMI (40)

Date: 2008-10-26



Site no. : 3# Chamber Data no. : 28
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Internet Radio M/N:Timber H
 Power Rating: AC 120V/60Hz
 Test mode : IEEE 802.11g Tx CH11 2462MHz
 MEMO :

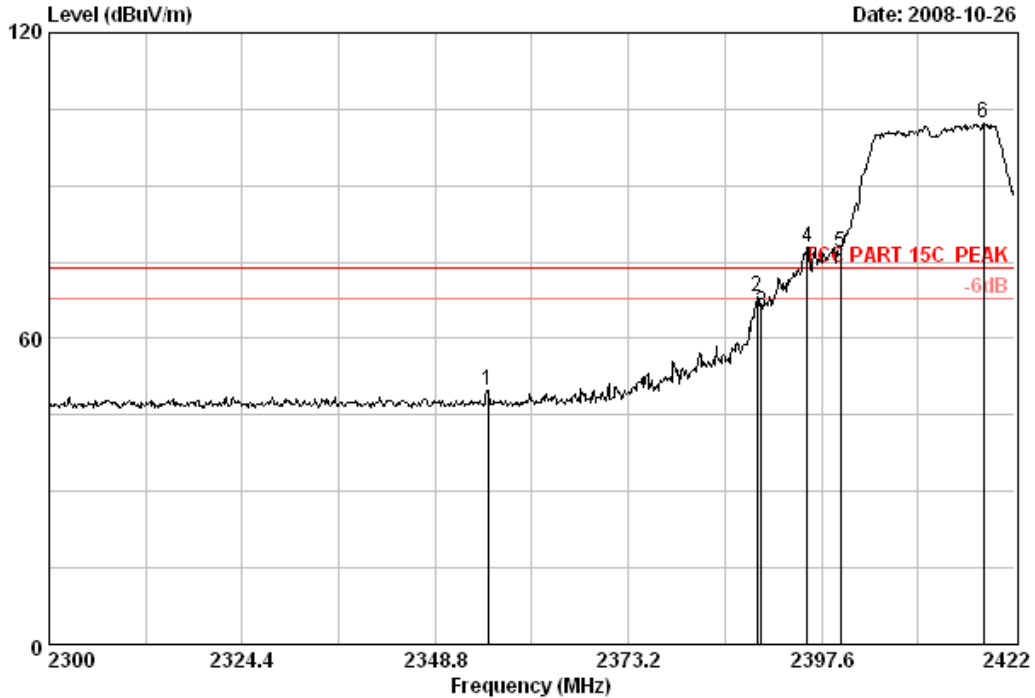
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2467.10	28.55	6.84	35.16	78.13	78.36	54.00	-24.36	Average
2	2483.50	28.58	6.87	35.16	50.25	50.54	54.00	3.46	Average

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



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Data: 29 File: E:\2008 report data\Hhip\ACS8Q1316.EMI (40)



Site no. : 3# Chamber Data no. : 29
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Internet Radio M/N: Timber H
 Power Rating: AC 120V/60Hz
 Test mode : IEEE 802.11g Tx CH1 2412MHz
 MEMO :

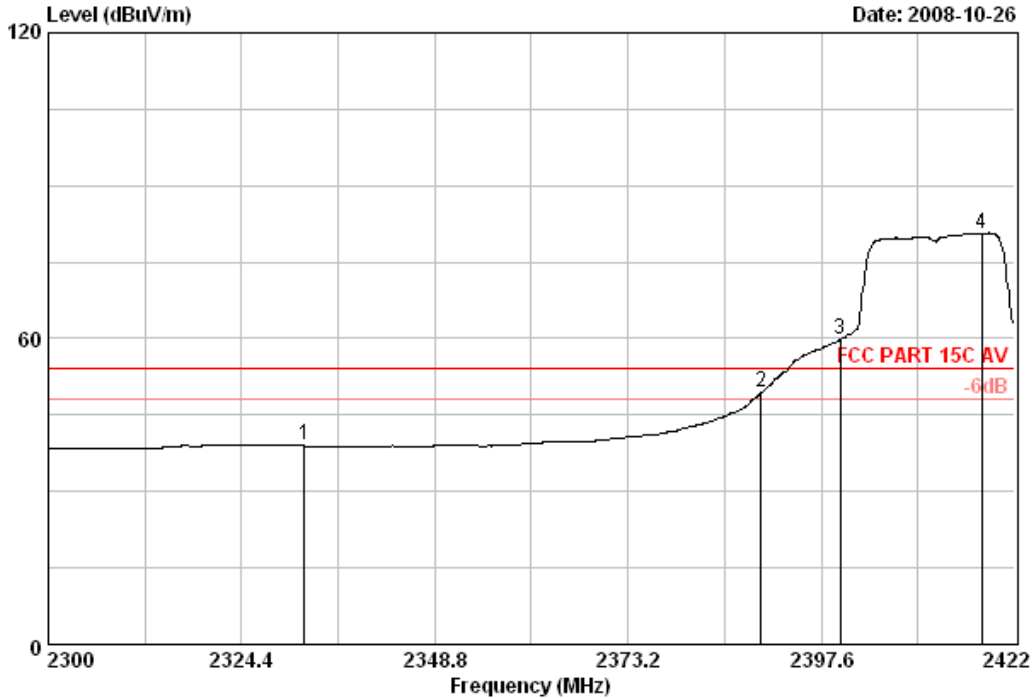
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2355.51	28.41	6.69	35.19	50.01	49.92	74.00	24.08	Peak
2	2389.43	28.46	6.71	35.18	68.10	68.09	74.00	5.91	Peak
3	2390.00	28.46	6.71	35.18	65.07	65.06	74.00	8.94	Peak
4	2395.77	28.46	6.73	35.18	77.72	77.73	74.00	-3.73	Peak
5	2400.00	28.46	6.73	35.18	76.84	76.85	74.00	-2.85	Peak
6	2418.10	28.48	6.77	35.17	102.19	102.27	74.00	-28.27	Peak

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



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Data: 30 File: E:\2008 report data\Hhip\ACS801316.EMI (40)



Site no. : 3# Chamber Data no. : 30
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Internet Radio M/N:Timber H
 Power Rating: AC 120V/60Hz
 Test mode : IEEE 802.11g Tx CH1 2412MHz
 MEMO :

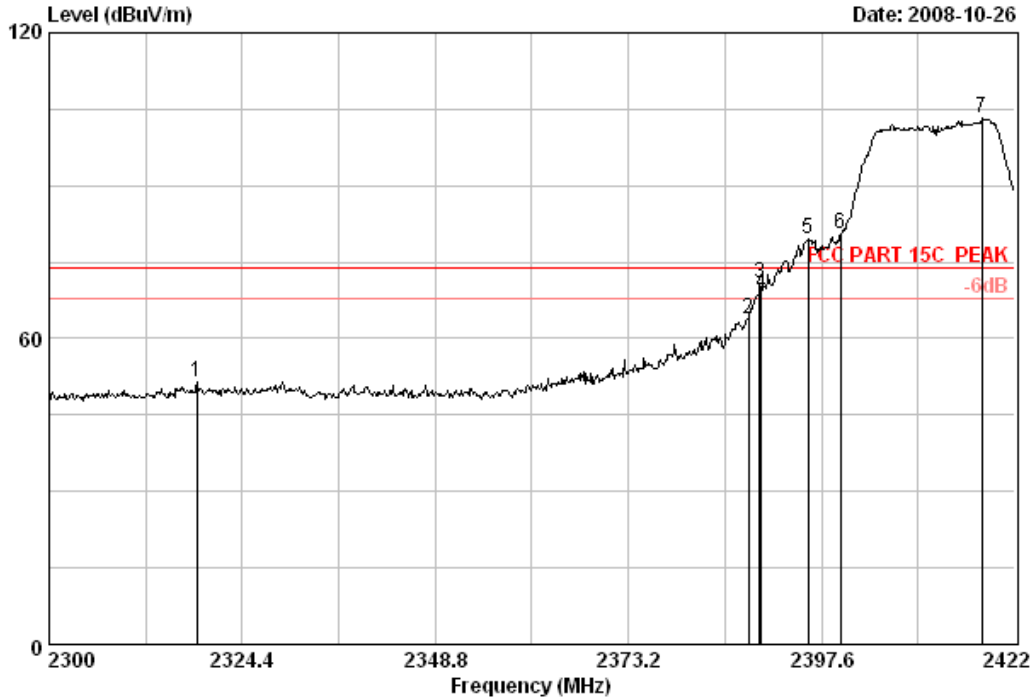
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2332.33	28.36	6.65	35.20	39.13	38.94	54.00	15.06	Average
2	2390.00	28.46	6.71	35.18	49.38	49.37	54.00	4.63	Average
3	2400.00	28.46	6.73	35.18	59.83	59.84	54.00	-5.84	Average
4	2417.85	28.48	6.77	35.17	80.54	80.62	54.00	-26.62	Average

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



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Data: 31 File: E:\2008 report data\Hhip\ACS8Q1316.EMI (40)



Site no. : 3# Chamber Data no. : 31
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Internet Radio M/N: Timber H
 Power Rating: AC 120V/60Hz
 Test mode : IEEE 802.11g Tx CH1 2412MHz
 MEMO :

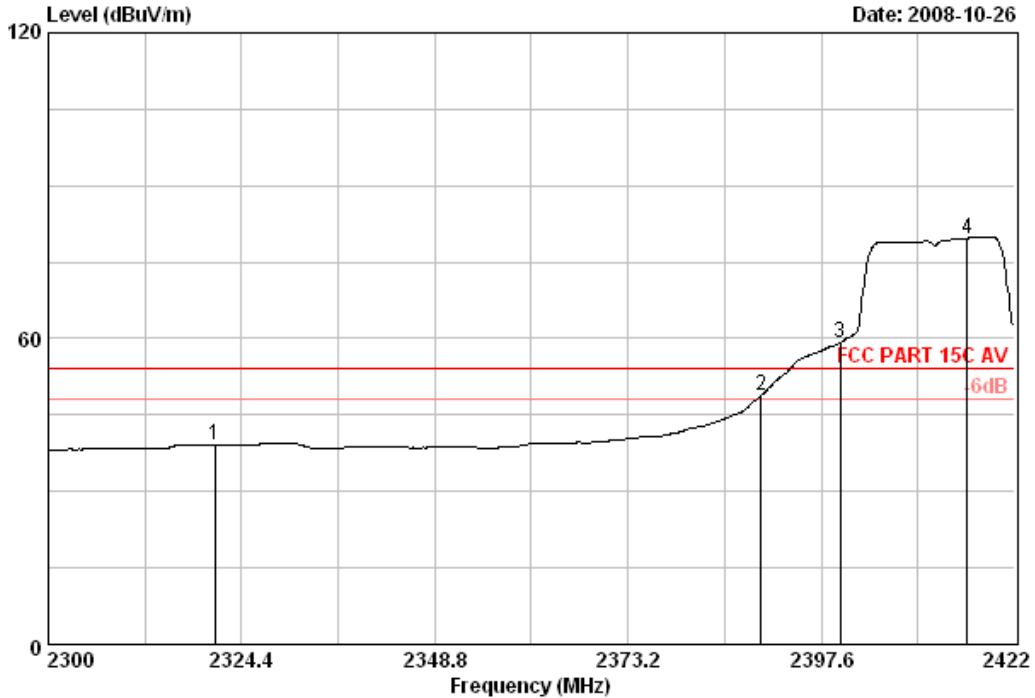
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2318.67	28.36	6.65	35.20	51.59	51.40	74.00	22.60	Peak
2	2388.33	28.46	6.71	35.18	63.92	63.91	74.00	10.09	Peak
3	2389.79	28.46	6.71	35.18	70.94	70.93	74.00	3.07	Peak
4	2390.00	28.46	6.71	35.18	68.82	68.81	74.00	5.19	Peak
5	2395.89	28.46	6.73	35.18	79.41	79.42	74.00	-5.42	Peak
6	2400.00	28.46	6.73	35.18	80.53	80.54	74.00	-6.54	Peak
7	2417.85	28.48	6.77	35.17	103.35	103.43	74.00	-29.43	Peak

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



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Data: 32 File: E:\2008 report data\Hhip\ACS801316.EMI (40)



Site no. : 3# Chamber Data no. : 32
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Internet Radio M/N:Timber H
 Power Rating: AC 120V/60Hz
 Test mode : IEEE 802.11g Tx CH1 2412MHz
 MEMO :

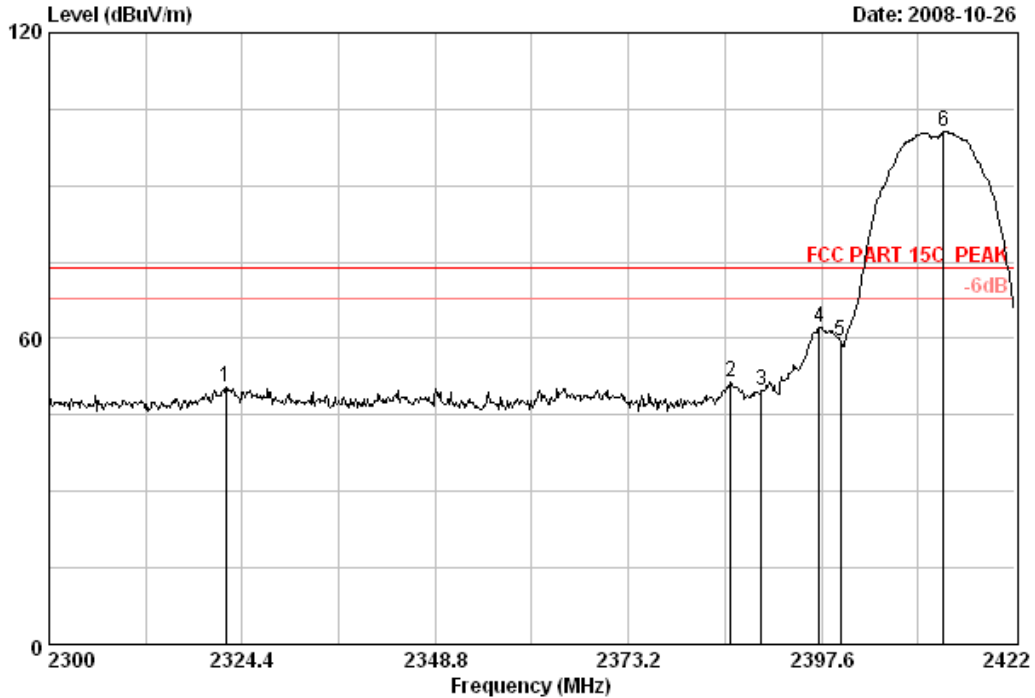
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2320.98	28.36	6.65	35.20	39.34	39.15	54.00	14.85	Average
2	2390.00	28.46	6.71	35.18	48.91	48.90	54.00	5.10	Average
3	2400.00	28.46	6.73	35.18	59.21	59.22	54.00	-5.22	Average
4	2416.02	28.48	6.77	35.17	79.60	79.68	54.00	-25.68	Average

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



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Data: 33 File: E:\2008 report data\Hhip\ACS8Q1316.EMI (40)



Site no. : 3# Chamber Data no. : 33
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Internet Radio M/N:Timber H
 Power Rating: AC 120V/60Hz
 Test mode : IEEE 802.11b Tx CH1 2412MHz
 MEMO :

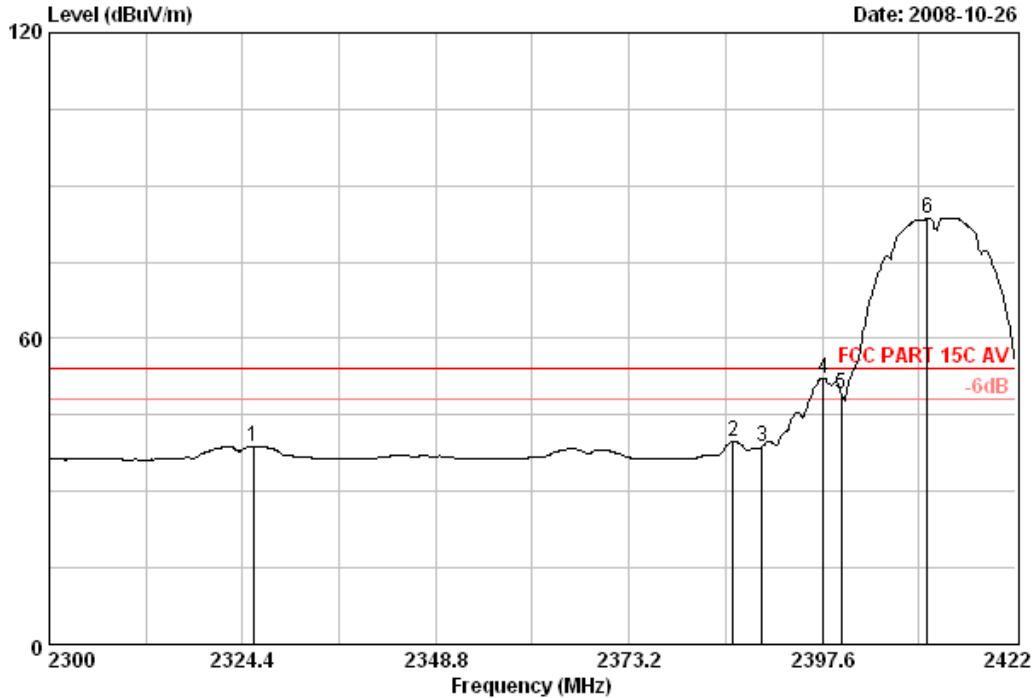
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2322.33	28.36	6.65	35.20	50.52	50.33	74.00	23.67	Peak
2	2386.13	28.46	6.71	35.19	51.52	51.50	74.00	22.50	Peak
3	2390.00	28.46	6.71	35.18	49.93	49.92	74.00	24.08	Peak
4	2397.36	28.46	6.73	35.18	62.12	62.13	74.00	11.87	Peak
5	2400.00	28.46	6.73	35.18	59.44	59.45	74.00	14.55	Peak
6	2412.97	28.48	6.77	35.17	100.55	100.63	74.00	-26.63	Peak

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



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Data: 34 File: E:\2008 report data\Hhip\ACS8Q1316.EMI (40)



Site no. : 3# Chamber Data no. : 34
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Internet Radio M/N:Timber H
 Power Rating: AC 120V/60Hz
 Test mode : IEEE 802.11b Tx CH1 2412MHz
 MEMO :

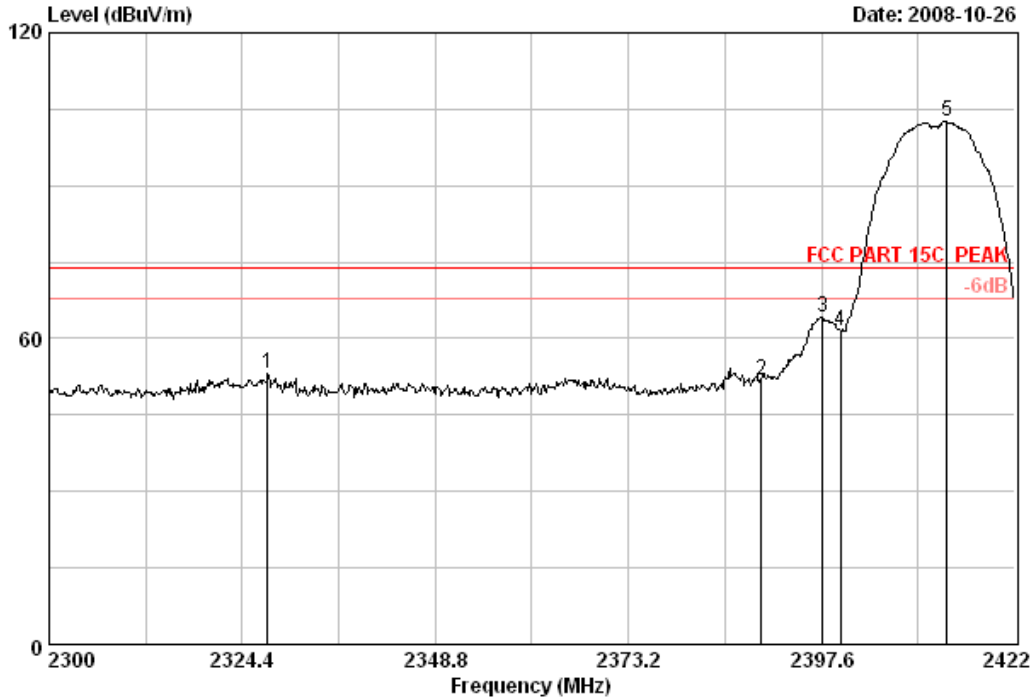
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2325.74	28.36	6.65	35.20	39.11	38.92	54.00	15.08	Average
2	2386.38	28.46	6.71	35.19	39.84	39.82	54.00	14.18	Average
3	2390.00	28.46	6.71	35.18	38.84	38.83	54.00	15.17	Average
4	2397.72	28.46	6.73	35.18	52.20	52.21	54.00	1.79	Average
5	2400.00	28.46	6.73	35.18	49.09	49.10	54.00	4.90	Average
6	2410.90	28.48	6.73	35.18	83.49	83.52	54.00	-29.52	Average

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



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 Fax: +86-755-26632877
 Postcode: 518057

Data: 35 File: E:\2008 report data\Hhip\ACS8Q1316.EMI (40)



Site no. : 3# Chamber Data no. : 35
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Internet Radio M/N: Timber H
 Power Rating: AC 120V/60Hz
 Test mode : IEEE 802.11b Tx CH1 2412MHz
 MEMO :

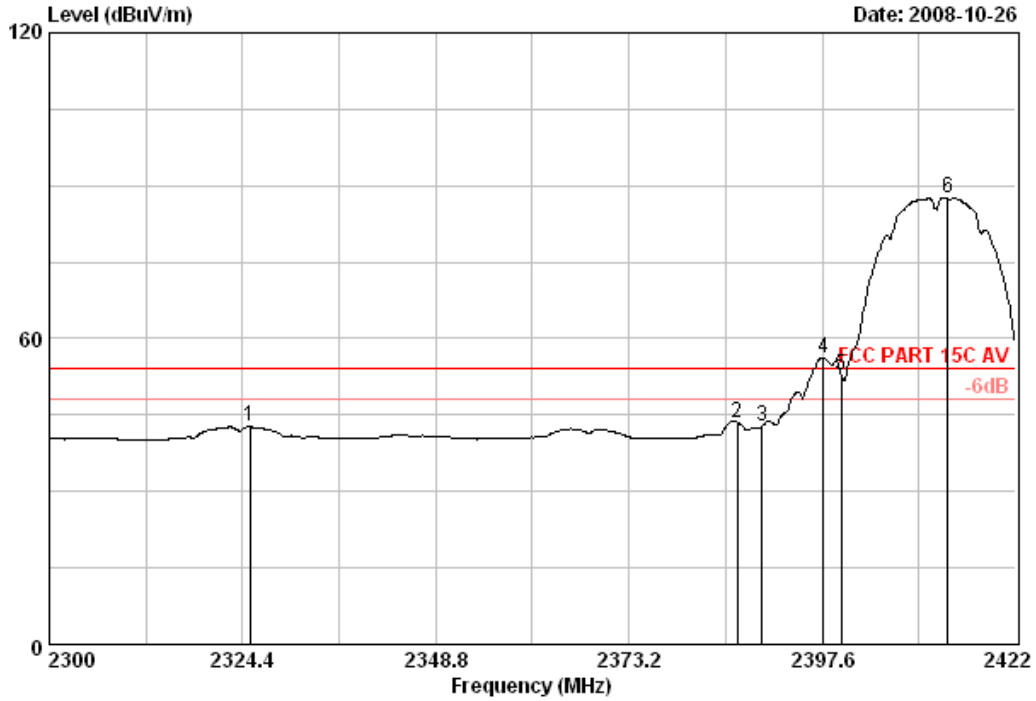
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2327.57	28.36	6.65	35.20	53.29	53.10	74.00	20.90	Peak
2	2390.00	28.46	6.71	35.18	51.74	51.73	74.00	22.27	Peak
3	2397.72	28.46	6.73	35.18	64.21	64.22	74.00	9.78	Peak
4	2400.00	28.46	6.73	35.18	61.64	61.65	74.00	12.35	Peak
5	2413.46	28.48	6.77	35.17	102.45	102.53	74.00	-28.53	Peak

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



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Postcode:518057

Data: 36 File: E:\2008 report data\Hhip\ACS801316.EMI (40)



Site no. : 3# Chamber Data no. : 36
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Internet Radio M/N:Timber H
 Power Rating: AC 120V/60Hz
 Test mode : IEEE 802.11b Tx CH1 2412MHz
 MEMO :

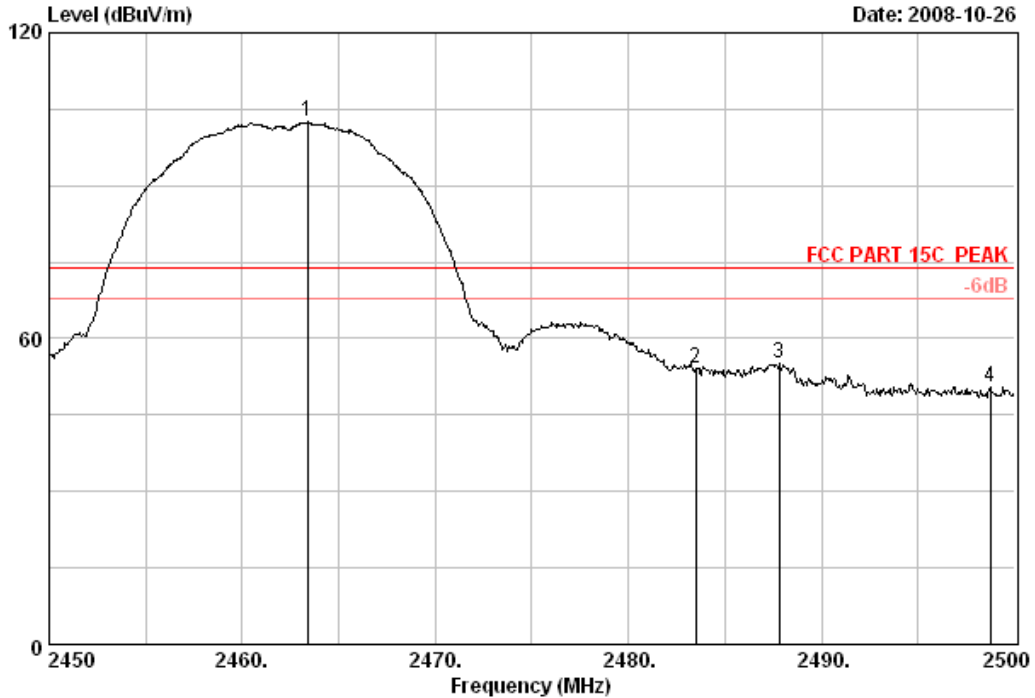
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2325.38	28.36	6.65	35.20	42.91	42.72	54.00	11.28	Average
2	2386.86	28.46	6.71	35.19	43.59	43.57	54.00	10.43	Average
3	2390.00	28.46	6.71	35.18	42.77	42.76	54.00	11.24	Average
4	2397.72	28.46	6.73	35.18	56.13	56.14	54.00	-2.14	Average
5	2400.00	28.46	6.73	35.18	52.90	52.91	54.00	1.09	Average
6	2413.46	28.48	6.77	35.17	87.36	87.44	54.00	-33.44	Average

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



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Data: 37 File: E:\2008 report data\Hhip\ACS801316.EMI (40)



Site no. : 3# Chamber Data no. : 37
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Internet Radio M/N: Timber H
 Power Rating: AC 120V/60Hz
 Test mode : IEEE 802.11b Tx CH11 2462MHz
 MEMO :

	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	2463.40	28.55	6.84	35.16	102.37	102.60	74.00	-28.60	Peak
2	2483.50	28.58	6.87	35.16	53.90	54.19	74.00	19.81	Peak
3	2487.80	28.60	6.87	35.15	54.91	55.23	74.00	18.77	Peak
4	2498.75	28.60	6.91	35.15	50.05	50.41	74.00	23.59	Peak

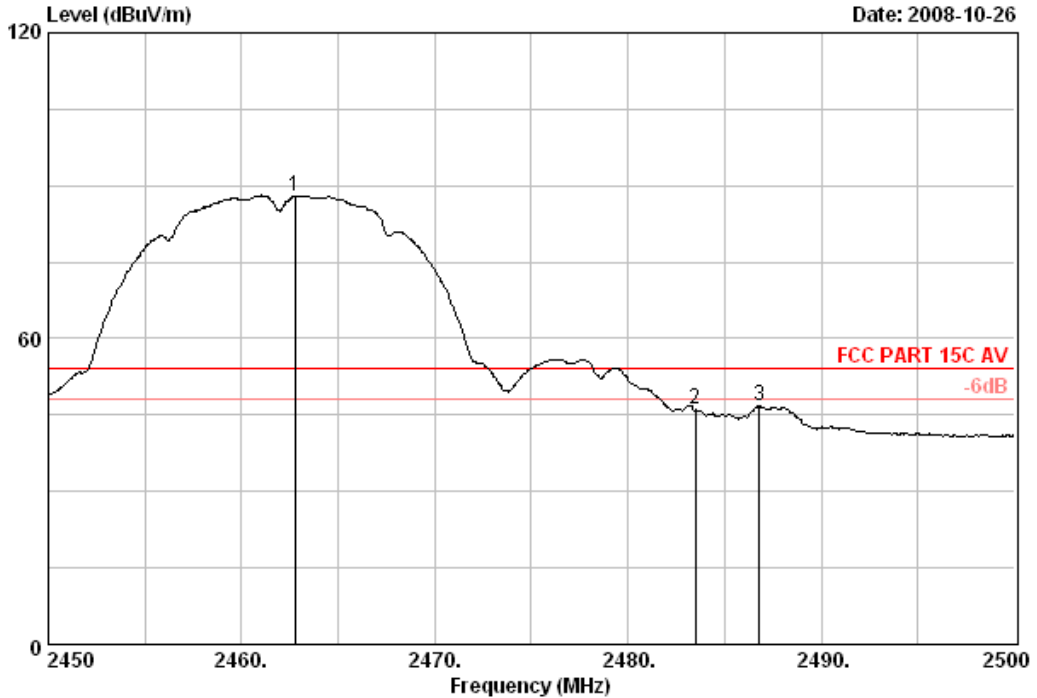
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 38 File: E:\2008 report data\Hhip\ACS801316.EMI (40)

Date: 2008-10-26



Site no. : 3# Chamber Data no. : 38
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Internet Radio M/N:Timber H
 Power Rating: AC 120V/60Hz
 Test mode : IEEE 802.11b Tx CH11 2462MHz
 MEMO :

	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	2462.75	28.55	6.84	35.16	87.72	87.95	54.00	-33.95	Average
2	2483.50	28.58	6.87	35.16	45.68	45.97	54.00	8.03	Average
3	2486.80	28.58	6.87	35.16	46.58	46.87	54.00	7.13	Average

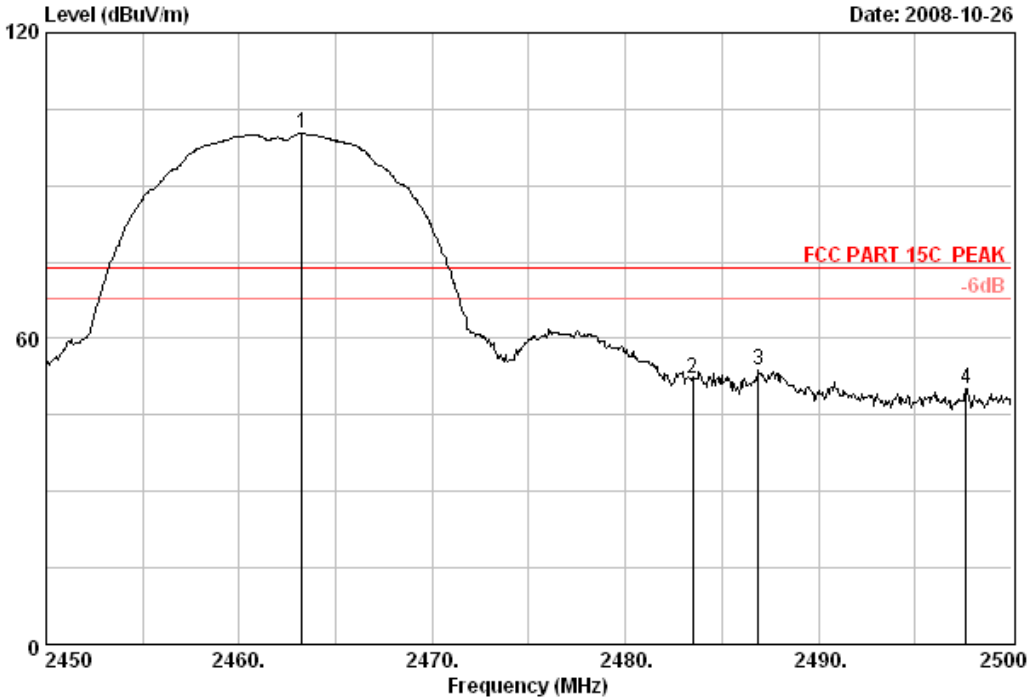
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 39 File: E:\2008 report data\Hhip\ACS8Q1316.EMI (40)

Date: 2008-10-26



Site no. : 3# Chamber Data no. : 39
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Internet Radio M/N:Timber H
 Power Rating: AC 120V/60Hz
 Test mode : IEEE 802.11b Tx CH11 2462MHz
 MEMO :

	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	2463.25	28.55	6.84	35.16	99.95	100.18	74.00	-26.18	Peak
2	2483.50	28.58	6.87	35.16	51.71	52.00	74.00	22.00	Peak
3	2486.90	28.58	6.87	35.16	53.40	53.69	74.00	20.31	Peak
4	2497.65	28.60	6.91	35.15	49.72	50.08	74.00	23.92	Peak

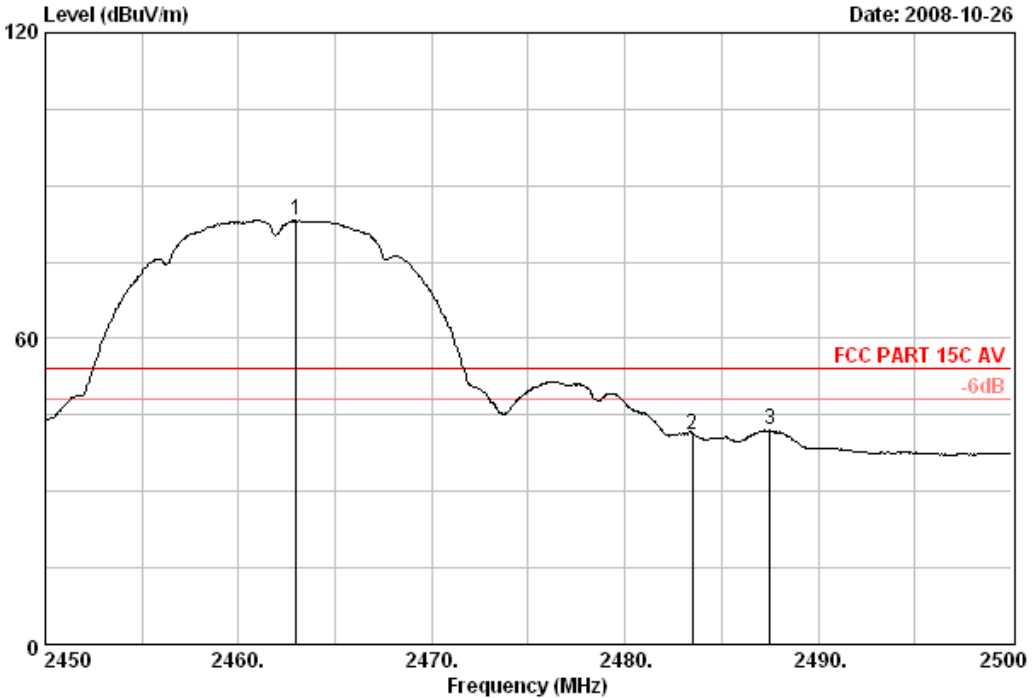
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 40 File: E:\2008 report data\Hhip\ACS801316.EMI (40)

Date: 2008-10-26



Site no. : 3# Chamber Data no. : 40
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Internet Radio M/N:Timber H
 Power Rating: AC 120V/60Hz
 Test mode : IEEE 802.11b Tx CH11 2462MHz
 MEMO :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2463.00	28.55	6.84	35.16	82.94	83.17	54.00	-29.17	Average
2	2483.50	28.58	6.87	35.16	40.98	41.27	54.00	12.73	Average
3	2487.50	28.60	6.87	35.15	41.80	42.12	54.00	11.88	Average

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

6. CONDUCTED SPURIOUS EMISSIONS

6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May,10, 08	1 Year
2	RF Cable	Hubersuhner	SUCOFLEX	182768/4	May,28, 08	1Year

6.2. Limit

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

6.3. Test Procedure

The transmitter output was connected to a spectrum analyzer, The resolution bandwidth is set to 100 kHz, The video bandwidth is set to 300 kHz.

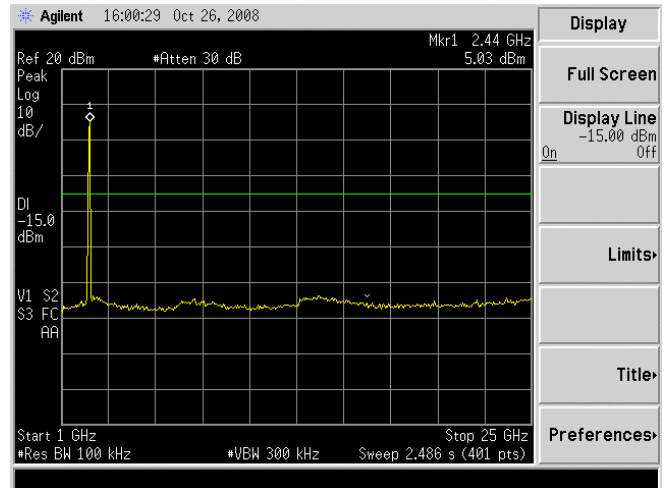
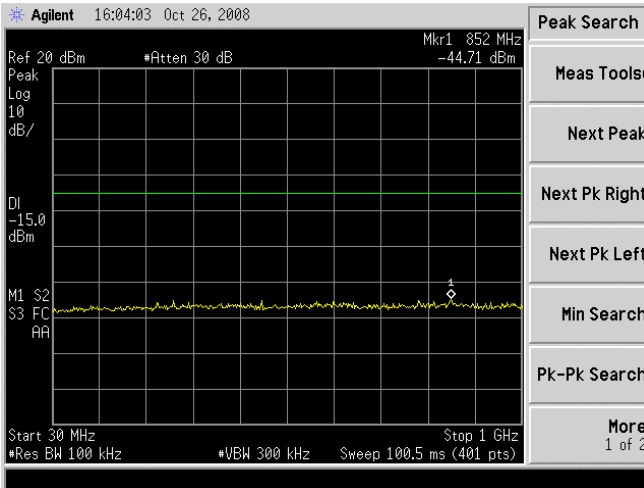
6.4. Test result

PASS (The testing data was attached in the next pages.)

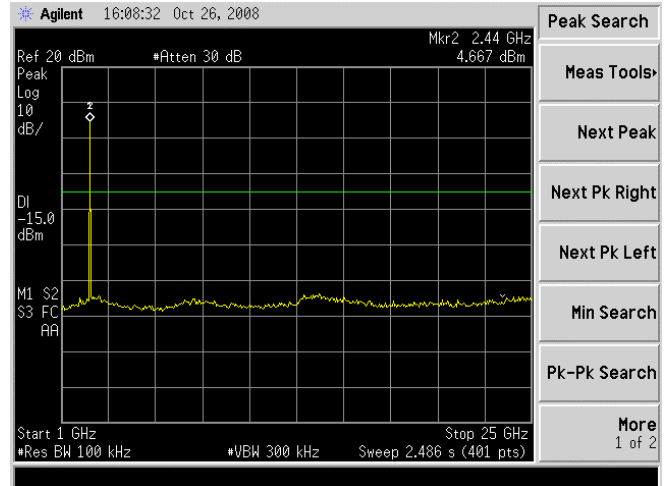
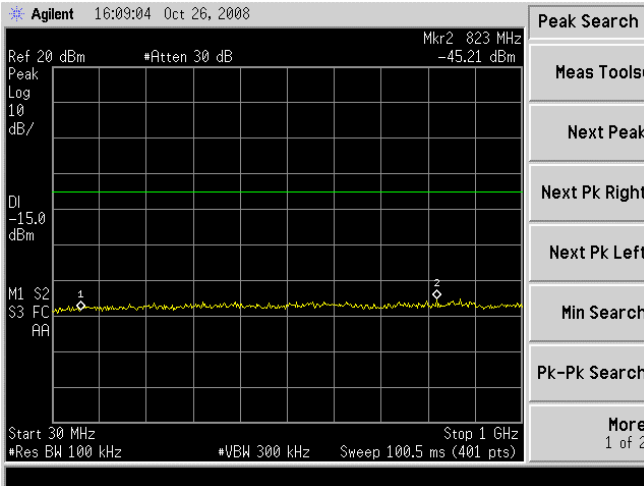
Conducted emission test data:

Test Mode: IEEE 802.11b TX

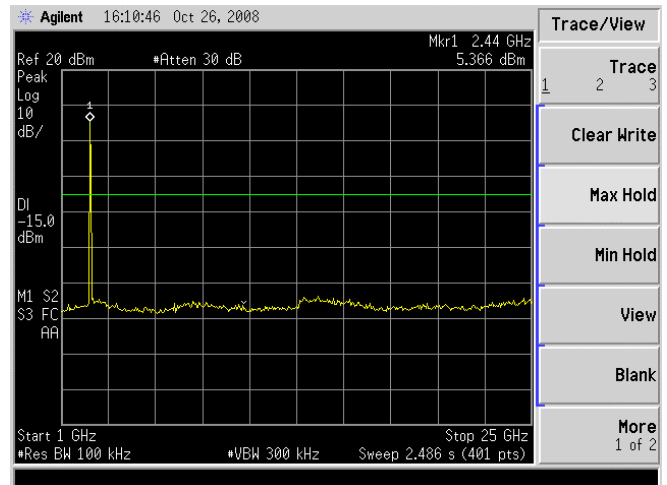
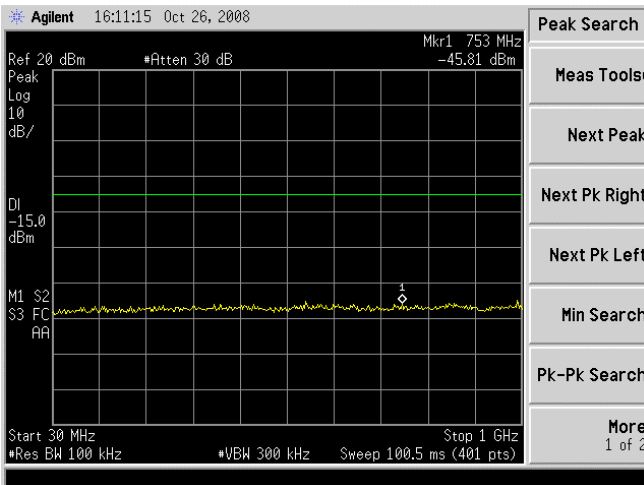
Test CH1: 2412MHz



Test CH6: 2437MHz

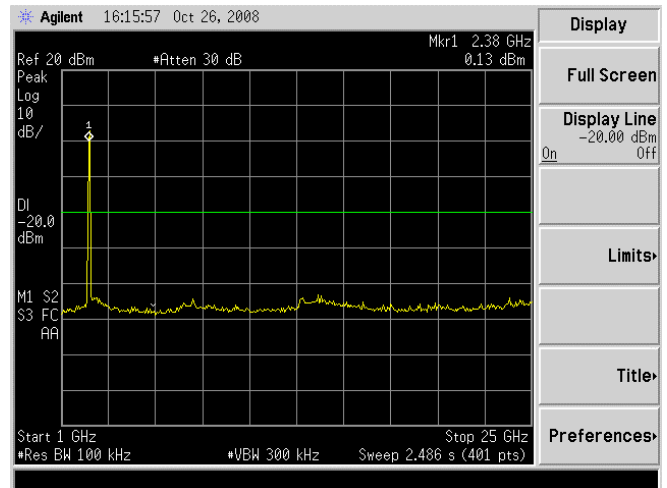
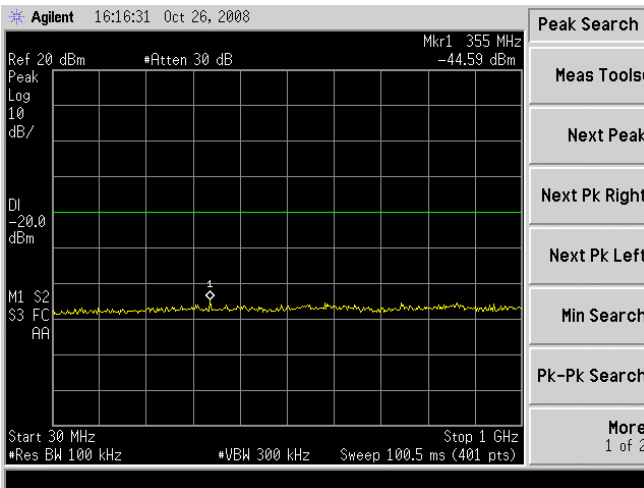


Test CH11: 2462MHz

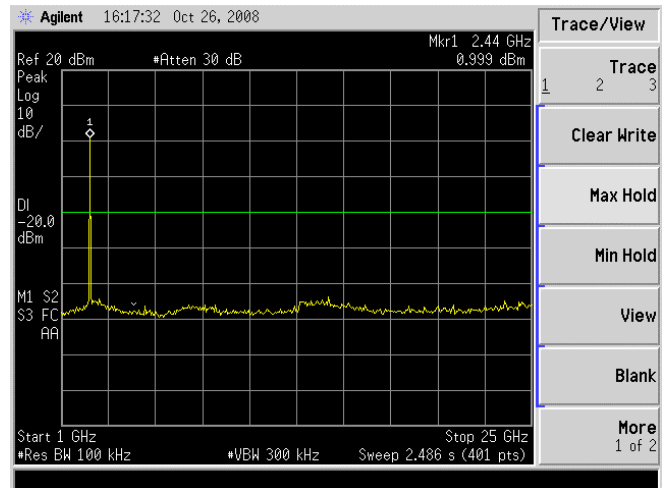
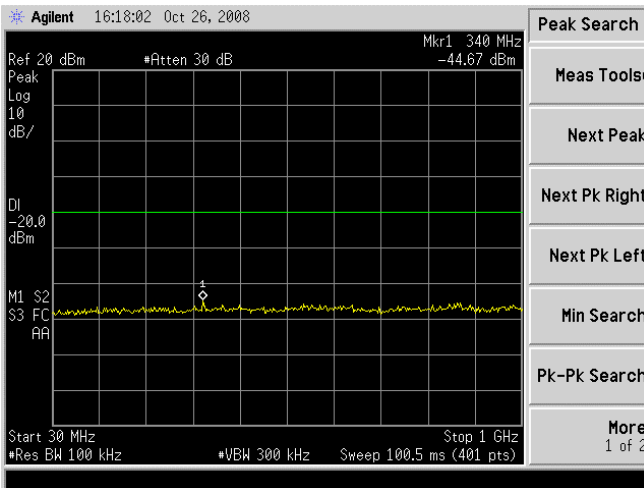


Test Mode: IEEE 802.11g TX

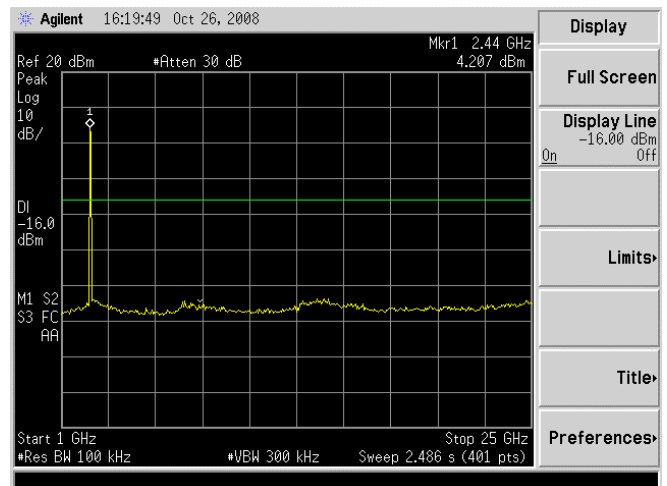
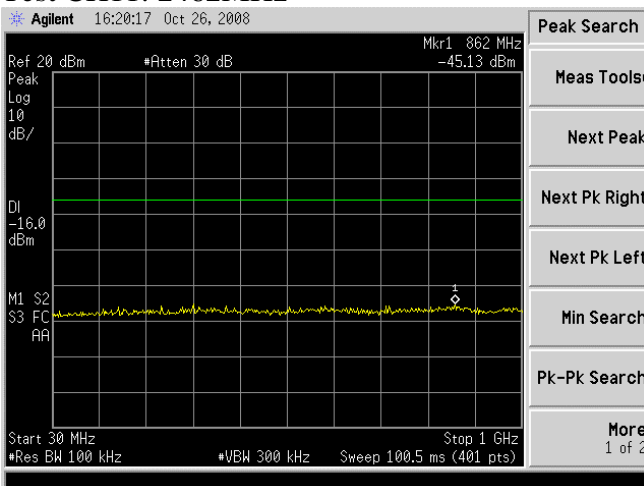
Test CH1: 2412MHz



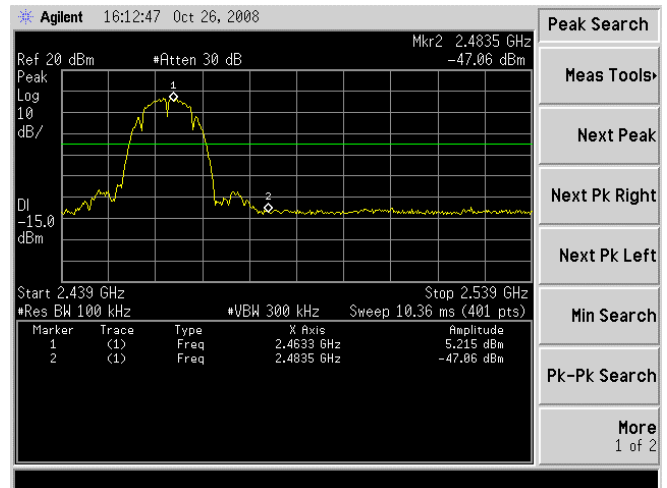
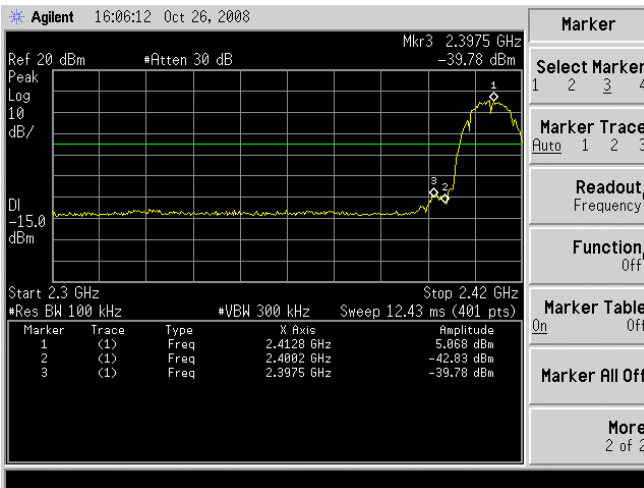
Test CH6: 2437MHz



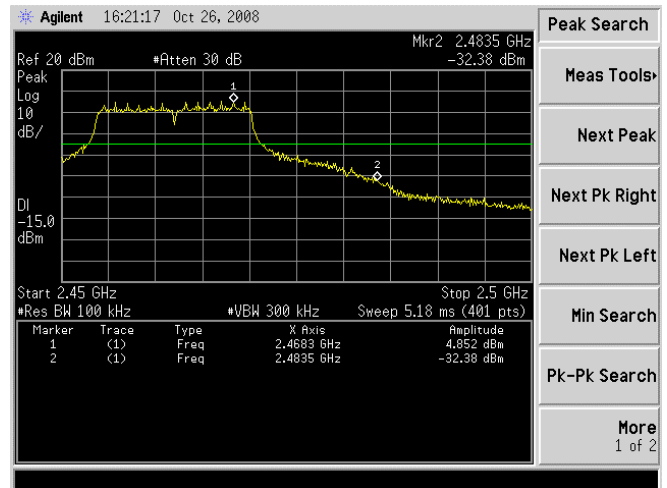
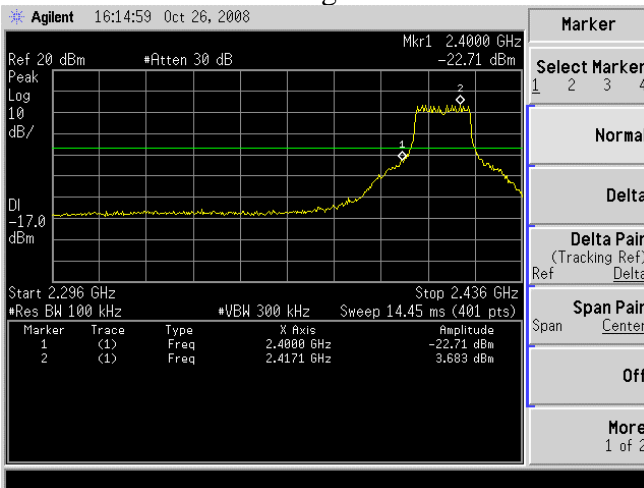
Test CH11: 2462MHz



Test Mode: IEEE 802.11b TX



Test Mode: IEEE 802.11g TX



7. 6dB Bandwidth Test

7.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May,10, 08	1 Year
2	RF Cable	Hubersuhner	SUCOFLEX	182768/4	May,28, 08	1Year

7.2. Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

7.3. Test Procedure

The transmitter output was connected to a spectrum analyzer, The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 100 kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

7.4. Test Results

Test Mode: IEEE 802.11b TX

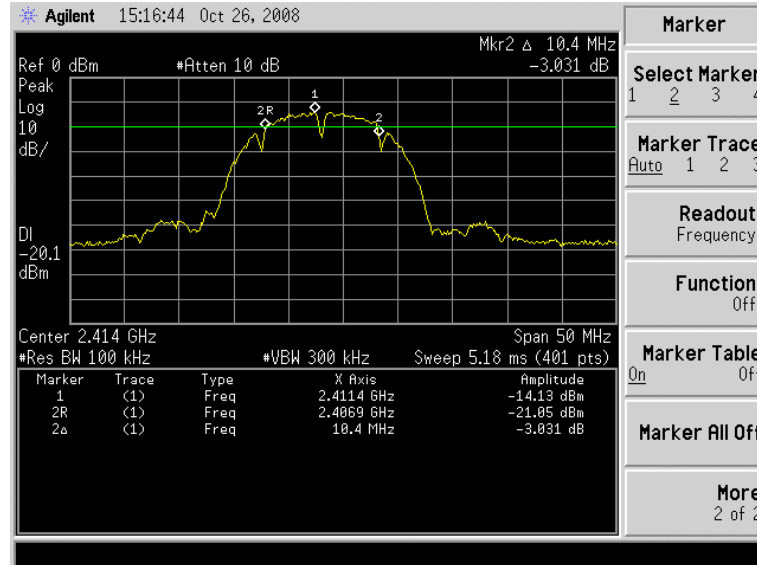
CH	6dB Bandwidth (MHz)	Limit	Conclusion
1	10.40	>500	PASS
6	11.30	>500	PASS
11	11.30	>500	PASS

Test Mode: IEEE 802.11g TX

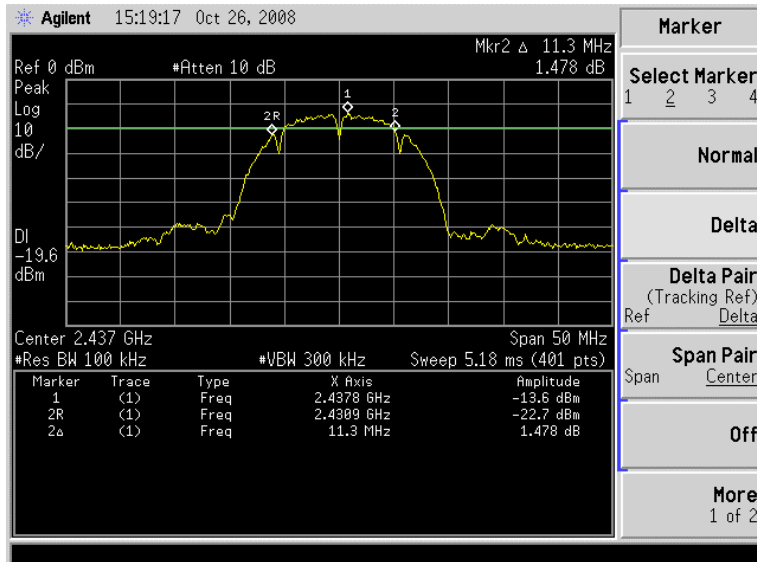
CH	6dB Bandwidth (MHz)	Limit	Conclusion
1	16.60	>500	PASS
6	16.60	>500	PASS
11	16.50	>500	PASS

Test Mode: IEEE 802.11b TX

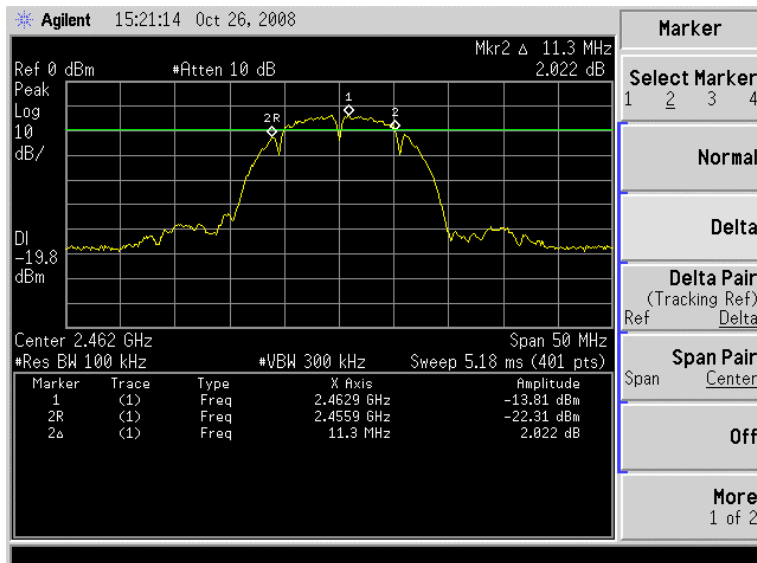
Test CH1: 2412MHz



Test CH6: 2437MHz

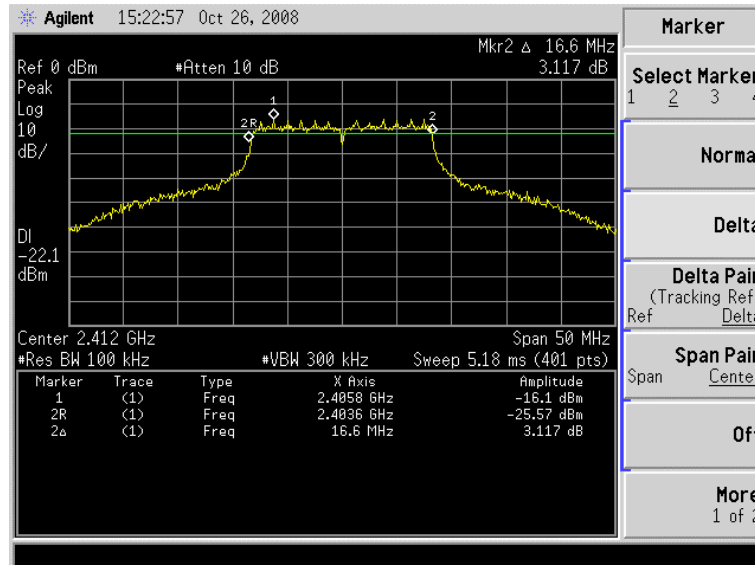


Test CH11: 2462MHz

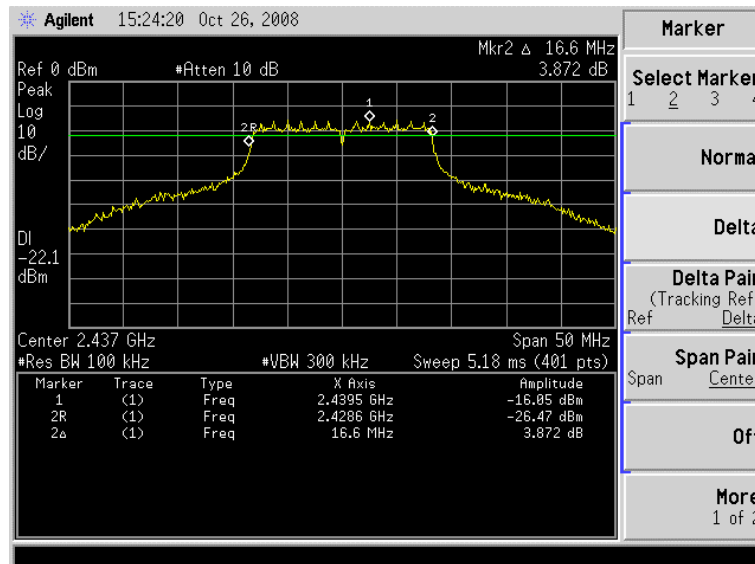


Test Mode: IEEE 802.11g TX

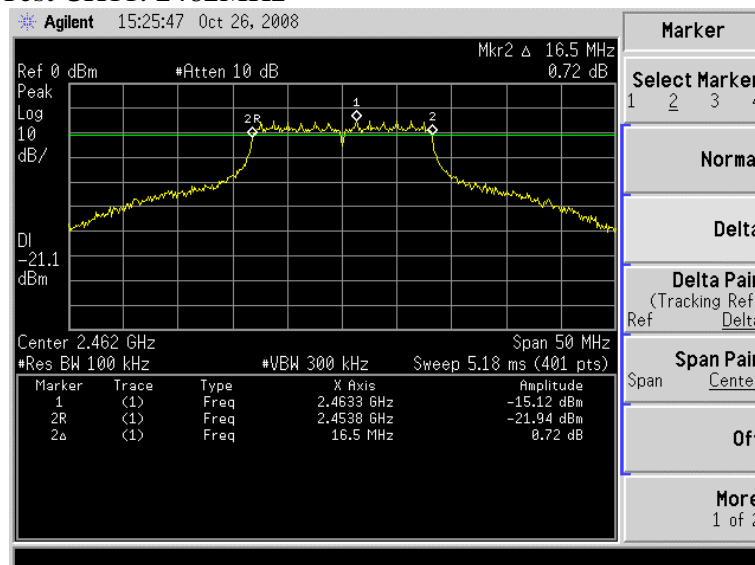
Test CH1: 2412MHz



Test CH6: 2437MHz



Test CH11: 2462MHz



8. OUTPUT POWER TEST

8.1.T Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Attenuator	Agilent	8491B	MY39262165	May,28, 08	1 Year
2	Power meter	Anritsu	ML2487A	6K00002472	May,10, 08	1 Year
3	Power sensor	Anritsu	ML2491A	032516	May,10, 08	1 Year
4	RF Cable	Hubersuhner	SUCOFLEX	182769/4	May,28, 08	1Year
5	RF Cable	Hubersuhner	SUCOFLEX	182768/4	May,28, 08	1 Year

8.2.Limit(FCC Part 15C 15.247 b(3))

For systems using digital modulation in the 2400—2483.5MHz, The Peak out put Power shall not exceed 1W(30dBm)

8.3.Test Procedure

The transmitter output was connected to a power meter, and read out the PK output power.

8.4.Test Results

EUT: Internet radio		M/N: Timber H						
Power: AC 120V/60Hz								
Data Rate:IEEE802.11b 1Mbps IEEE802.11g 6Mbps								
Ambient Temperature:23°C				Relative Humidity: 60%				
Test date: 2008/10/26				Test by: Jamy				
Test CH		CH1:2412MHz CH6:2437MHz CH11:2462MHz						
Mode	CH	PK Read Level (dBm)	Cable Loss (dB)	Attenuator (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Conclusion
11b	CH1	-1.88	0.6	20	18.72	30	11.28	PASS
	CH6	-1.36	0.6	20	19.24	30	10.76	PASS
	CH11	-1.04	0.6	20	19.56	30	10.44	PASS
11g	CH1	1.67	0.6	20	22.27	30	7.73	PASS
	CH6	1.92	0.6	20	22.52	30	7.48	PASS
	CH11	2.59	0.6	20	23.19	30	6.81	PASS
Note1:According Exploratory test, These data rate have the maximum output power								
Note2:Result=Read+ cable loss +Attenuator								

9. POWER SPECTRAL DENSITY TEST

9.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May,10, 08	1 Year
2	RF Cable	Hubersuhner	SUCOFLEX	182768/4	May,28, 08	1Year

9.2. Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

9.3. Test Procedure

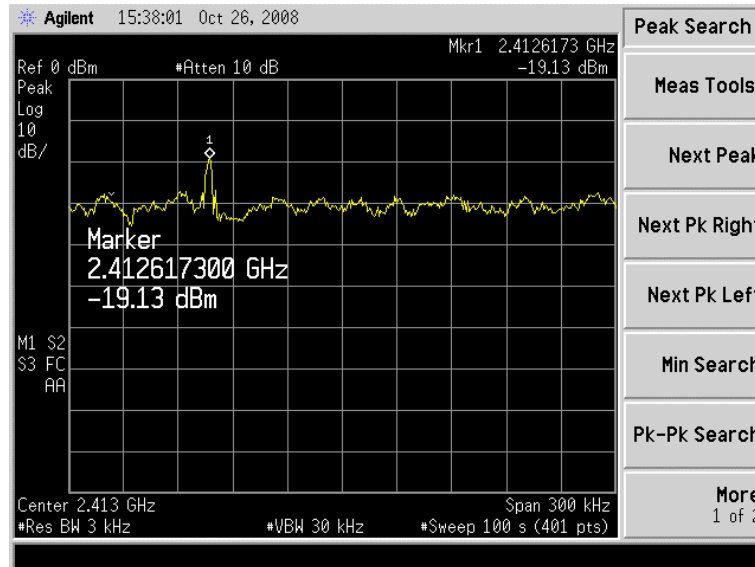
The transmitter output was connected to a spectrum analyzer. The maximum power density level was measured by spectrum analyzer with 3kHz RBW and 30kHz VBW, sweep time=span/3kHz.

9.4. Test Results

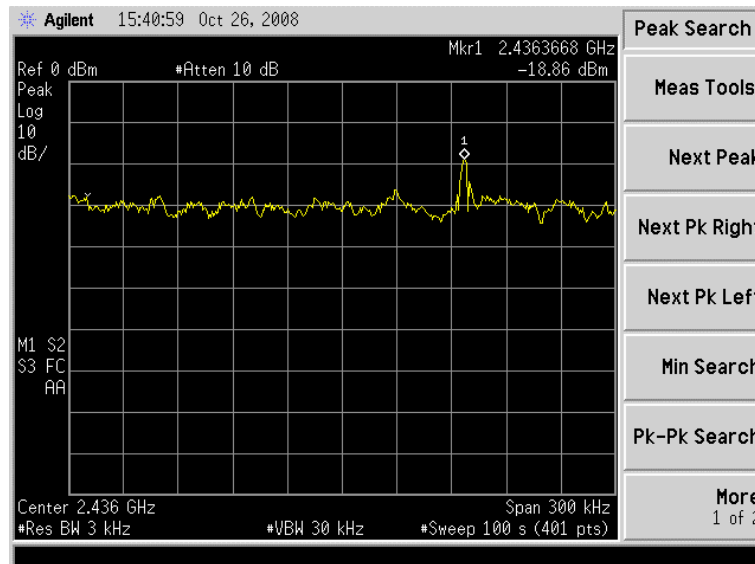
EUT: Internet Radio		M/N:Timber H						
Power: AC 120V/60Hz								
Data Rate:IEEE802.11b 1Mbps IEEE802.11g 6Mbps								
Ambient Temperature:23°C				Relative Humidity: 60%				
Test date: 2008/10/26				Test by: Jamy				
Test CH:CH1: 2412MHz CH6:2437MHz CH11:2462MHz								
Mode	CH	PK Read Level (dBm/3kHz)	Cable Loss (dB)	Attenuator (dB)	Result (dBm/3kHz)	Limit (dBm/3kHz)	Margin (dB)	Conclusion
11b	CH1	-19.13	0.6	20	1.47	8	6.53	PASS
	CH6	-18.86	0.6	20	1.74	8	6.26	PASS
	CH11	-18.40	0.6	20	2.20	8	5.80	PASS
11g	CH1	-30.53	0.6	20	-9.93	8	17.93	PASS
	CH6	-31.55	0.6	20	-10.95	8	18.95	PASS
	CH11	-29.61	0.6	20	-9.01	8	17.01	PASS
Note1:According Exploratory test, These data rate have the maximum output power								
Note2:Result=Read+ cable loss +Attenuator								

Test Mode: IEEE 802.11b TX

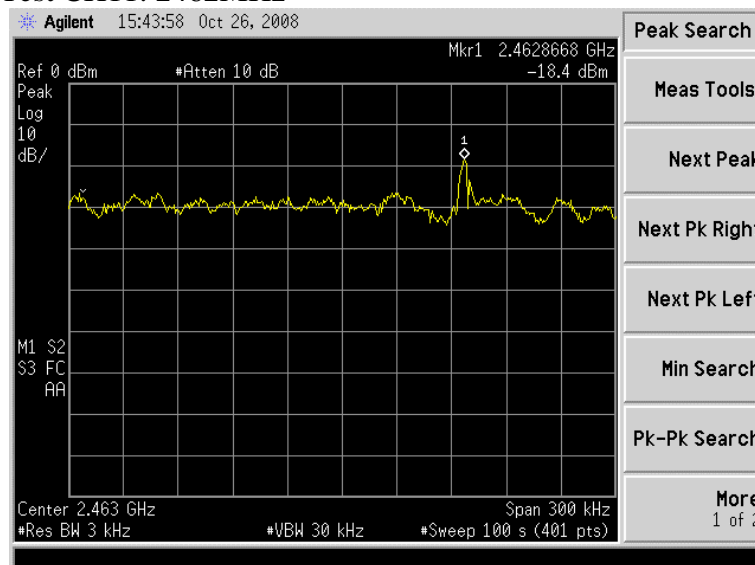
Test CH1: 2412MHz



Test CH6: 2437MHz

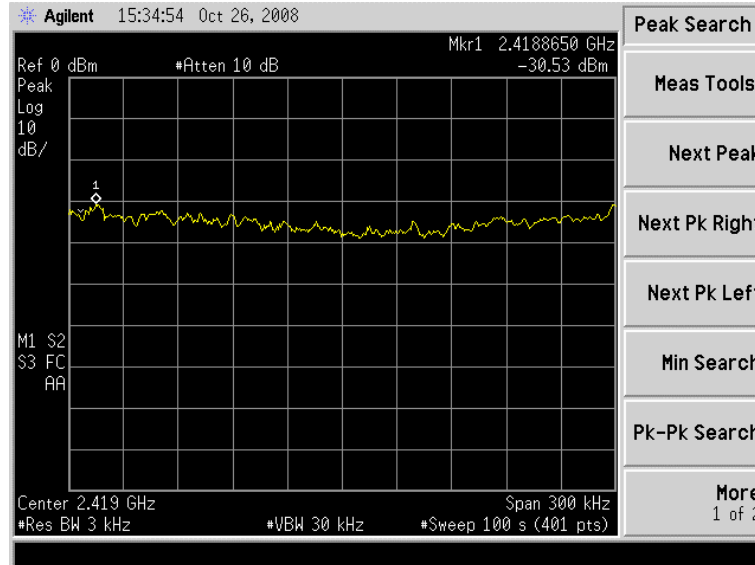


Test CH11: 2462MHz

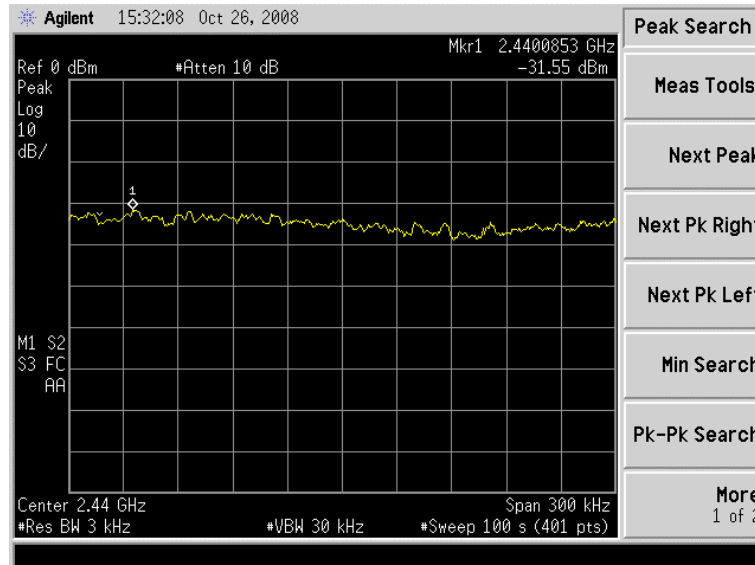


Test Mode: IEEE 802.11g TX

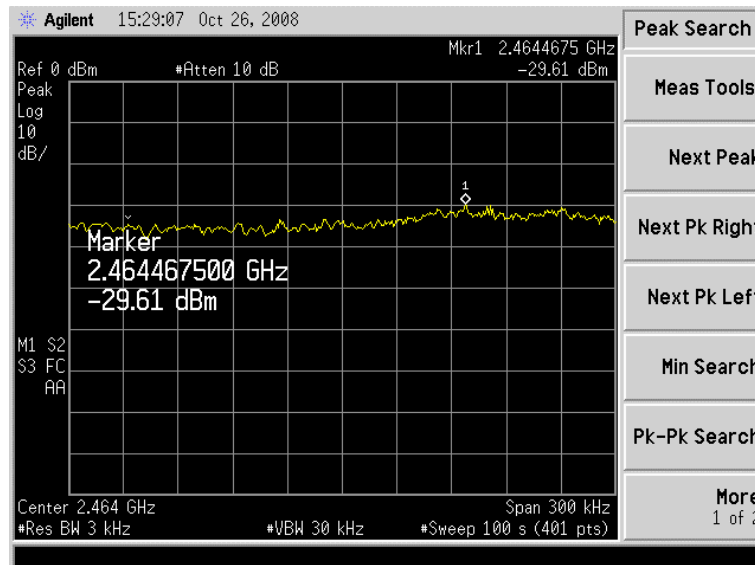
Test CH1: 2412MHz



Test CH6: 2437MHz



Test CH11: 2462MHz



10.MPE ESTIMATION

10.1.Limit for General Population / Uncontrolled Exposures

Frequency	Power density (mW/cm ²)	Averaging time (minutes)
300MHz~1.5GHz	F/1500	30
1.5GHz~100GHz	1.0	30

Frequency (MHz)	Power density (mW/cm ²)	Averaging time (minutes)
2412	0.6	30
2437	0.61	30
2462	0.62	30

Note: F = Frequency in MHz

10.2.Estimation Result

Mode	CH	Frequency (MHz)	PK Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain(linear)	MPE
11b	1	2412	18.72	74.47	2.00	1.58	0.0235
	6	2437	19.24	83.95	2.00	1.58	0.0265
	11	2462	19.56	90.36	2.00	1.58	0.0285
11b	1	2412	22.27	168.66	2.00	1.58	0.0532
	6	2437	22.52	178.65	2.00	1.58	0.0564
	11	2462	23.19	208.45	2.00	1.58	0.0658

11. ANTENNA REQUIREMENT

10.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

10.2 ANTENNA CONNECTED CONSTRUCTION

This EUT have two antennas, one is external antenna, but this antenna is only used for FM receive, The other one is chip antenna fixed in the EUT and without connector, that no antenna other than that furnished by the responsible party shall be used with the device, The maximum peak gain of this antenna is only 2dBi.

12.DEVIATION TO TEST SPECIFICATIONS

[NONE]