



AUDIX Technology (Shenzhen) Co., Ltd.

FCC ID:YZKSMCWPCI-N5

FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

Edgecore Networks Corporation

2.4GHz 300Mbps Wireless PCI Adapter

Model No.: SMCWPCI-N5

FCC ID: YZKSMCWPCI-N5

Prepared for : Edgecore Networks Corporation
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Report Number : ACS-F13156
Date of Test : Jun.12~16, 2013
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TEST REPORT CERTIFICATION

Applicant : Edgecore Networks Corporation
 Manufacturer : Edgecore Networks Corporation
 EUT Description : 2.4GHz 300Mbps Wireless PCI Adapter
 FCC ID : YZKSMCWPCI-N5
 (A) MODEL NO. : SMCWPCI-N5
 (B) SERIAL NO. : N/A
 (C) POWER SUPPLY : DC 3.3V From PC Input
 (D) TEST VOLTAGE : DC 3.3V From PC Input AC 120V/60Hz

Tested for comply with:
 FCC Rules and Regulations Part 15 Subpart C: 2012

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 : Jun.12~16, 2013 Report of date: Jun.25, 2013

Prepared by : Julia Zhu Reviewed by : Sunny Lu / Assistant Manager

Julia Zhu / Assistant



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 6.25

David Jin / Deputy Manager

Approved & Authorized Signer :

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	FCC Part 15: 15.207 ANSI C63.10: 2009	PASS
Radiated Emission	FCC Part 15: 15.209 ANSI C63.10: 2009	PASS
Band Edge Compliance	FCC Part 15: 15.247 ANSI C63.10: 2009	PASS
Conducted spurious emissions	FCC Part 15: 15.247 ANSI C63.10: 2009	PASS
6dB Bandwidth	FCC Part 15: 15.247 ANSI C63.10: 2009	PASS
Peak Output Power	FCC Part 15: 15.247 ANSI C63.10: 2009	PASS
Power Spectral Density	FCC Part 15: 15.247 ANSI C63.10: 2009	PASS
Antenna requirement	FCC Part 15: 15.203	PASS

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Product Name : 2.4GHz 300Mbps Wireless PCI Adapter

Model Number : SMCWPCI-N5

FCC ID : YZKSMCWPCI-N5

Operation Frequency : IEEE 802.11b: 2412MHz—2462MHz
IEEE 802.11g: 2412MHz—2462MHz
IEEE802.11n HT20: 2412MHz—2462MHz
IEEE802.11n HT40: 2422MHz—2452MHz

Channel Number : IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels
IEEE 802.11n HT40: 7Channels

Modulation Technology : IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK)
IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK)
IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM, QPSK,BPSK)

Antenna Assembly Gain : MIMO 2X2 Dipole Antenna, 2dBi Gain

Applicant : Edgecore Networks Corporation
No.1 Creation Rd.3, Hsinchu Science Park, Hsinchu, 30077,
Taiwan, R.O.C

Manufacturer : Edgecore Networks Corporation
No.1 Creation Rd.3, Hsinchu Science Park, Hsinchu, 30077,
Taiwan, R.O.C

Date of Test : Jun.12~16, 2013

Date of Receipt : Jun.11, 2013

Sample Type : Prototype production

2.2. Test Information

A special test software was used to control EUT work in Continuous TX mode(100% duty cycle), 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	1	Low :CH1	2412
	1	Middle: CH6	2437
	1	High: CH11	2462
IEEE 802.11g	6	Low :CH1	2412
	6	Middle: CH6	2437
	6	High: CH11	2462
IEEE 802.11n HT20	6.5	Low :CH1	2412
	6.5	Middle: CH6	2437
	6.5	High: CH11	2462
IEEE 802.11n HT40	13.5	Low :CH1	2422
	13.5	Middle: CH4	2437
	13.5	High: CH7	2452

Note 1: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.

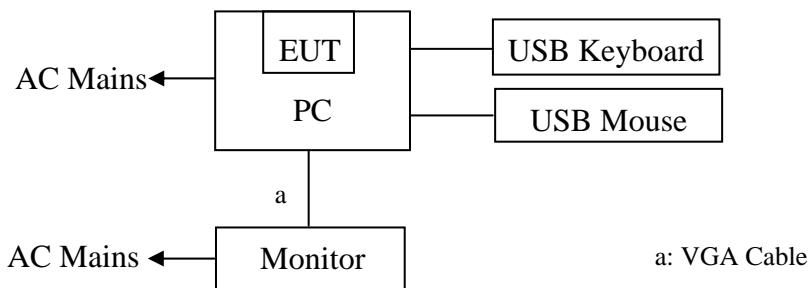
Note 2: According to exploratory test, chain 0 have the worse case emission, so test the radiated emission and band edge use chain 0 in 11b.11g mode, in 11n mode, test with two antenna transmit simultaneously.

Note3: This is MIMO 2*2 device, use the "Measure-and -sum" method described in KDB 662911 for the antenna port conducted measurement, all multiple port measurement comply with requirement of KDB662911.

2.3. Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number	Approved type
1	Personal Computer	Test PC P	DELL	Studio 540	124XK2X	<input checked="" type="checkbox"/> FCC DoC <input checked="" type="checkbox"/> BSMI ID: R33002
		Power Cord: Unshielded, Detachable, 1.8m Display Card: HD3450 (DVI+VGA+HDMI)				
2.	Monitor	ACS-EMC-LM04R	DELL	1907FPt	CN-009759-7161 8-6AP-ACPP	<input checked="" type="checkbox"/> FCC DoC <input checked="" type="checkbox"/> BSMI ID: R3A002
		Power Cord: Unshielded, Detachable, 1.8m VGA Cable: Shielded, Detachable, 2.0m (with two cores)				
3.	USB Keyboard	ACS-EMC- K04R	DELL	SK-8115	CN-ODJ313-716 16-6BB-049J	<input checked="" type="checkbox"/> FCC DoC <input checked="" type="checkbox"/> BSMI ID: T3A002
		USB Cable: shielded, Undetachable, 2.0m				
4.	USB Mouse	ACS-EMC- K04R	DELL	SK-8115	CN-ODJ313-716 16-6BB-049J	<input checked="" type="checkbox"/> FCC DoC <input checked="" type="checkbox"/> BSMI ID: T3A002
		USB Cable: shielded, Undetachable, 2.0m				

2.4. Block Diagram of Test Setup



(EUT: 2.4GHz 300Mbps Wireless PCI Adapter)

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: Jun.13, 2014

: Certificated by DAkkS, Germany
Registration No: D-PL-12151-01-01
Valid Date: Feb.01, 2014

Accredited by NVLAP, USA
NVLAP Code: 200372-0
Valid Date: Mar.31, 2014

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

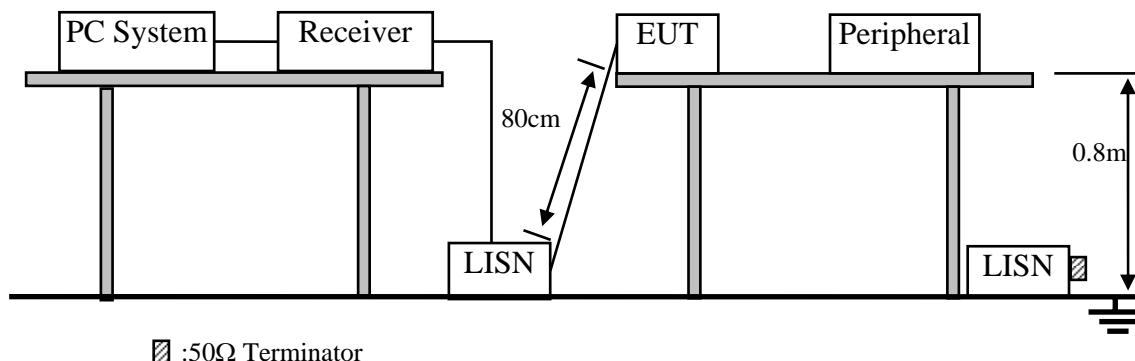
Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	3.1 dB (150KHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	3.22 dB(30~200MHz, Polarize: H)
	3.23 dB(30~200MHz, Polarize: V)
	3.31 dB(200M~1GHz, Polarize: H)
	3.21 dB(200M~1GHz, Polarize: V)
Uncertainty for Radiation Emission test in 3m chamber (1GHz-18GHz)	4.2dB (1~6GHz, Distance: 3m)
	4.24 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 Power density test	2.00 dB
Uncertainty for Frequency range test	7x10 ⁻⁸
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 TEST

3.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	Oct.31, 12	1 Year
2.	L.I.S.N.#1	Rohde & Schwarz	ESH2-Z5	834066/011	Oct.31, 12	1 Year
3.	L.I.S.N.#3	Kyoritsu	KNW-242C	8-1920-1	May.08, 13	1 Year
4.	Terminator	Hubersuhner	50Ω	No. 1	May.08, 13	1 Year
5.	Terminator	Hubersuhner	50Ω	No. 2	May.08, 13	1 Year
6.	RF Cable	Fujikura	3D-2W	No.1	May.08, 13	1 Year
7.	Coaxial Switch	Anritsu	MP59B	M50564	May.08, 13	1 Year
8.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100341	May.08, 13	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. 2.4GHz 300Mbps Wireless PCI Adapter (EUT)

Model Number : SMCWPCI-N5

Serial Number : N/A

3.4.2. Support Equipment: As Tested Supporting System Details, in Section 2.2.

3.5. Operating Condition of EUT

3.5.1. Setup the EUT and simulator as shown as Section 3.2.

3.5.2. Turned on the power of all equipment.

3.5.3. PC run test software to control EUT work in Tx mode.

3.6. Test Procedure

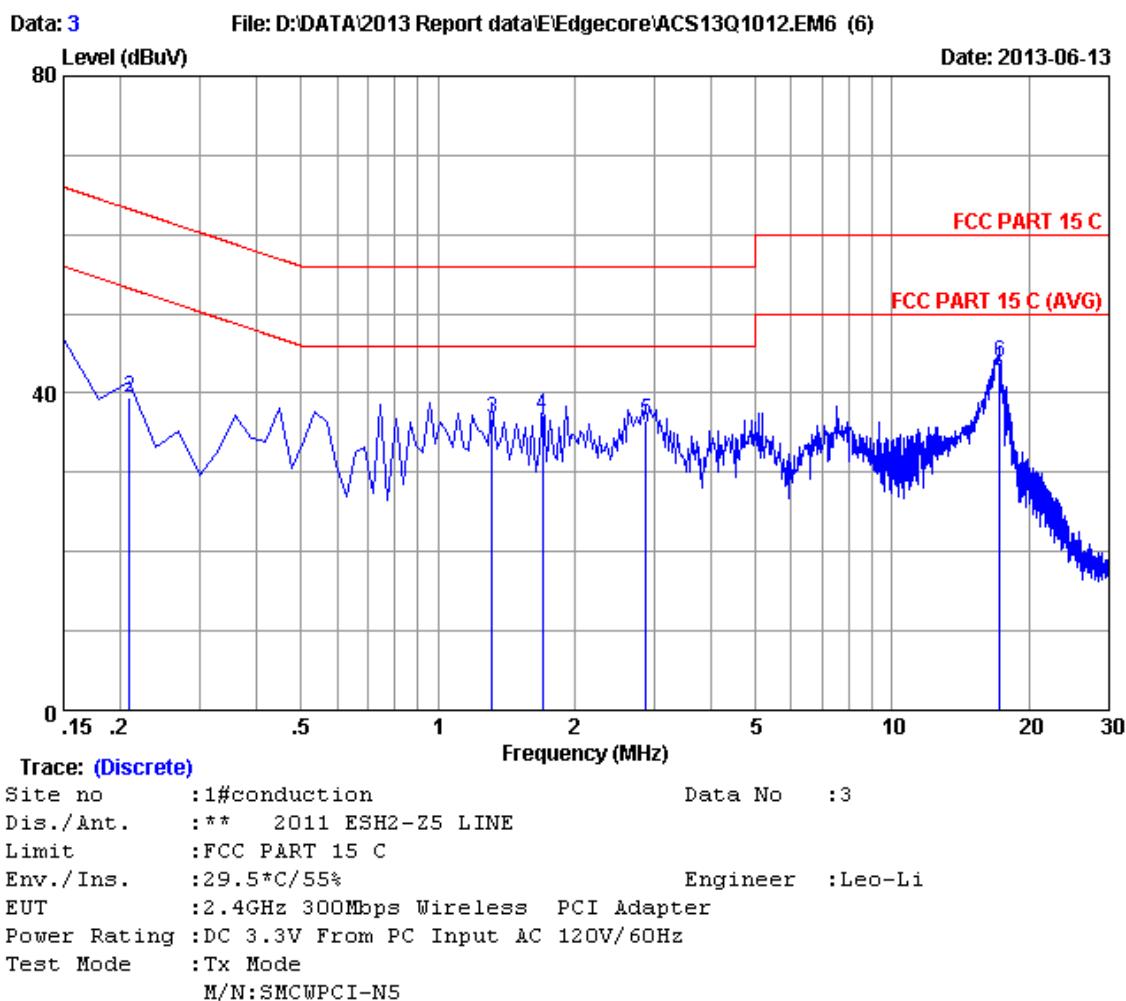
The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power Via PC connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The 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 C63.10: 2009 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.

3.7. Power Line Conducted Emission Test Results

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

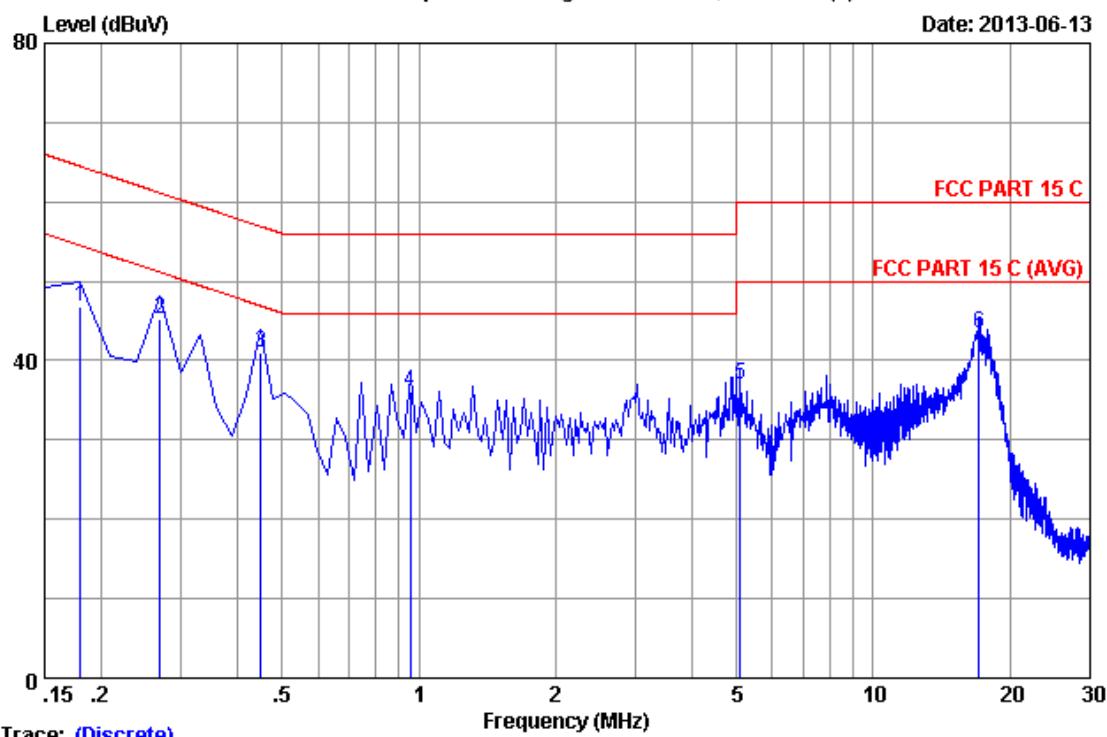


No	Freq (MHz)	LISN	Cable	Emission				Remark
		Factor (dB)	Loss (dB)	Reading (dBuV)	Level (dBuV)	Limits (dBuV)	Margin (dB)	
1	0.15000	0.17	9.88	31.71	41.76	66.00	24.24	QP
2	0.20970	0.17	9.88	29.50	39.55	63.22	23.67	QP
3	1.314	0.26	9.89	26.64	36.79	56.00	19.21	QP
4	1.702	0.29	9.90	26.95	37.14	56.00	18.86	QP
5	2.866	0.33	9.93	26.29	36.55	56.00	19.45	QP
6	17.224	0.98	10.06	32.94	43.98	60.00	16.02	QP

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

Data: 4 File: D:\DATA\2013 Report data\E\Edgecore\ACS13Q1012.EM6 (6)

Date: 2013-06-13



Trace: (Discrete)

Site no : 1#conduction Data No : 4
 Dis./Ant. : ** 2011 ESH2-Z5 NEUTRAL
 Limit : FCC PART 15 C
 Env./Ins. : 29.5°C/55% Engineer : Leo-Li
 EUT : 2.4GHz 300Mbps Wireless PCI Adapter
 Power Rating : DC 3.3V From PC Input AC 120V/60Hz
 Test Mode : Tx Mode
 M/N:SMCWPCI-NS

No	Freq (MHz)	LISN	Cable		Emission			
		Factor (dB)	Loss (dB)	Reading (dBuV)	Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.17985	0.21	9.88	36.75	46.84	64.49	17.65	QP
2	0.26940	0.21	9.88	35.04	45.13	61.14	16.01	QP
3	0.44850	0.22	9.88	30.81	40.91	56.90	15.99	QP
4	0.95595	0.24	9.89	25.93	36.06	56.00	19.94	QP
5	5.105	0.33	9.94	26.71	36.98	60.00	23.02	QP
6	17.075	0.67	10.05	32.66	43.38	60.00	16.62	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

4.1.1. For frequency range 30MHz~1000MHz (At Anechoic Chamber)

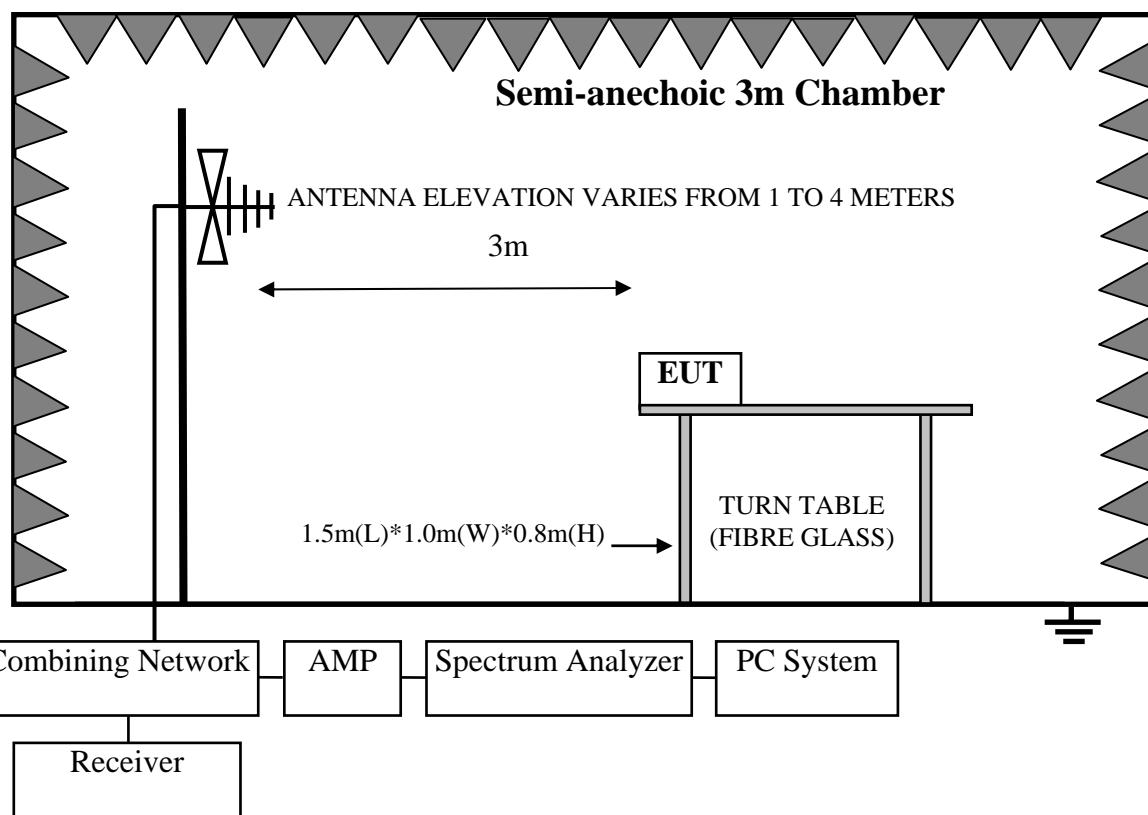
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	3#Chamber	AUDIX	N/A	N/A	Nov.24,12	1 Year
2	EMI Spectrum	Agilent	E4407B	MY41440292	May.08, 13	1 Year
3	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May.08, 13	1 Year
4	Amplifier	HP	8447D	2648A04738	May.08, 13	1 Year
5	Bilog Antenna	Schaffner	CBL6111C	2598	Mar.14,13	1 Year
6	RF Cable	MIYAZAKI	CFD400-NL	3# Chamber No.1	May.08, 13	1 Year
7	Coaxial Switch	Anritsu	MP59B	M74389	May.08, 13	1 Year

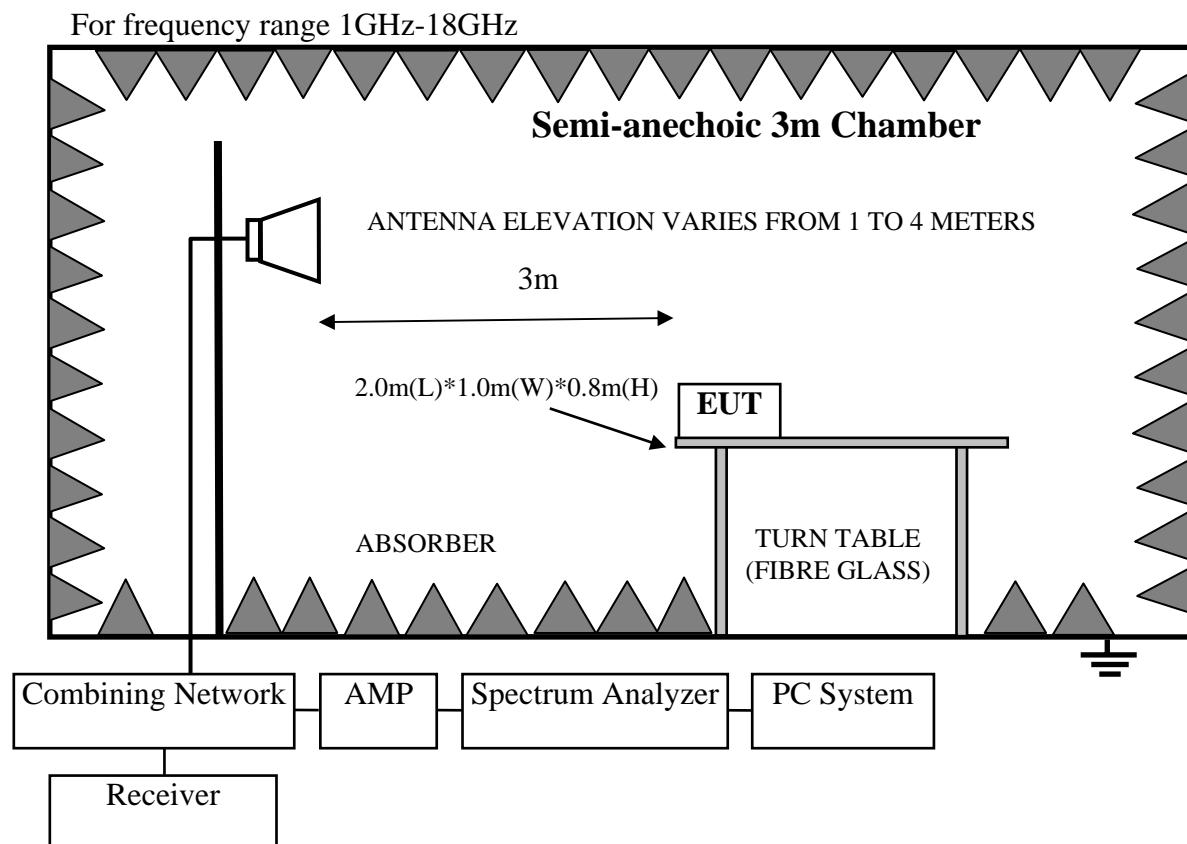
4.1.2. For frequency range 1GHz~25GHz (At Anechoic Chamber)

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4407B	MY41440292	May.08, 13	1 Year
2	Horn Antenna	EMCO	3115	9607-4877	May.08, 13	1 Year
3	Amplifier	Agilent	8449B	3008A00863	May.08, 13	1 Year
4	RF Cable	Hubersuhner	SUCOFLEX106	77980/6	May.08, 13	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX106	77977/6	May.08, 13	1 Year
6	Horn Antenna	EMCO	3116	00060089	Aug.28, 12	1 Year

4.2. Block Diagram of Test Setup

For frequency range 30MHz-1000MHz





4.3.Radiated Emission Limit

4.3.1.15.209 limits

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
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 $\text{dB}\mu\text{V} = 20 \log \text{Emission level } \mu\text{V/m}$

- (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.

4.3.2.15.205 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 15.205 restricted 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 configurations of EUT are listed in Section 3.5.

4.5.Operating Condition of EUT

Same as Conducted Emission test that is listed in Section 3.6. except the test set up replaced by Section 4.2.

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 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.

This test was performed with EUT in X, Y, Z position, and the worse case was found when EUT in X position as 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 VBW is set at 3MHz 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 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.

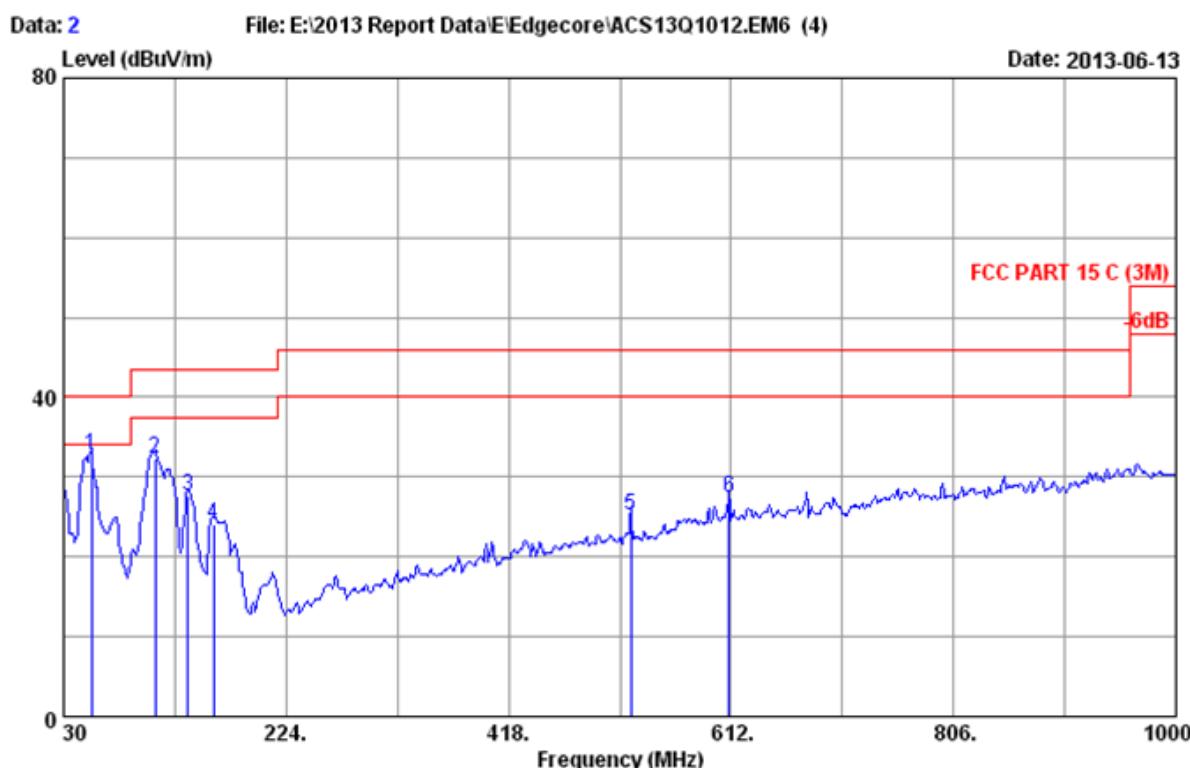
4.7.Radiated Emission Test Results

PASS.

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

Note: For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.

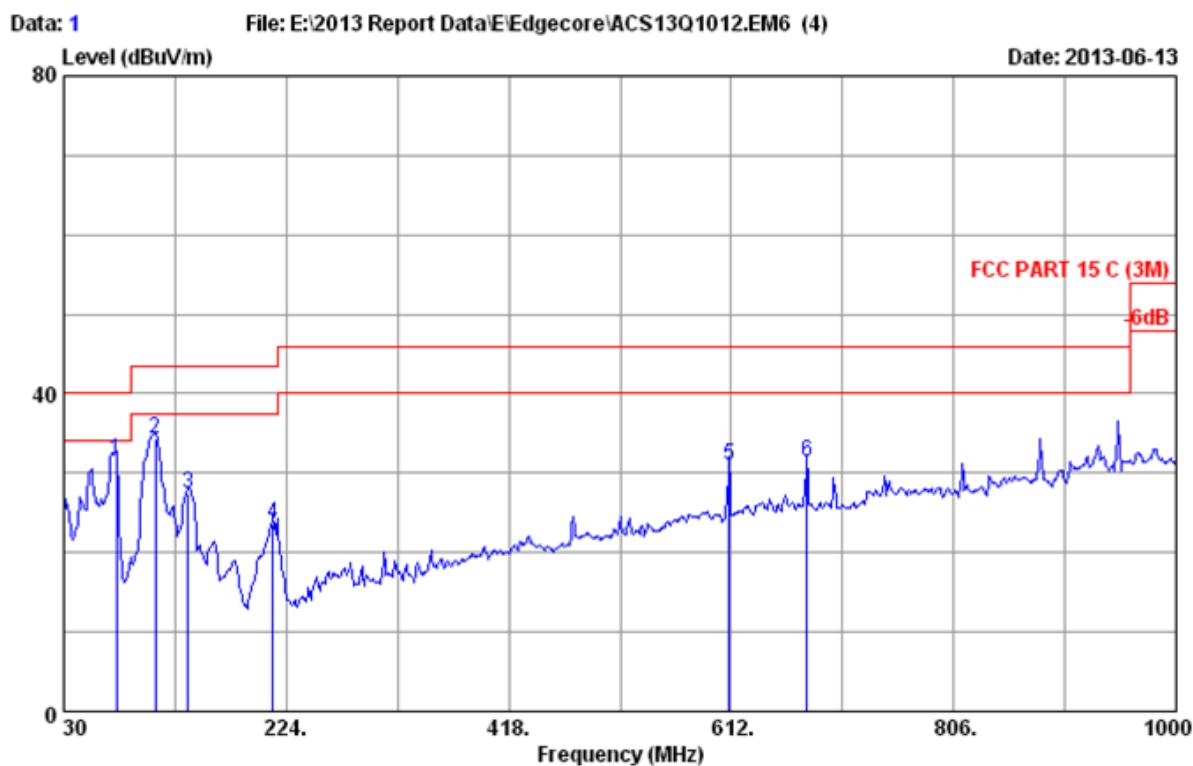
Frequency: 30MHz~1GHz



Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2010 CBL6111C 2598 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 24°C/65% Engineer : Leo-Li
 EUT : 2.4GHz 300Mbps Wireless PCI Adapter
 Power rating : DC 3.3V From PC Input AC 120V/60Hz
 Test Mode : Tx Mode
 M/N:SMCWPCI-N5

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission				Remark
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	54.250	7.54	0.86	24.25	32.65	40.00	7.35	QP
2	109.540	11.40	1.24	19.76	32.40	43.50	11.10	QP
3	138.640	12.02	1.43	14.10	27.55	43.50	15.95	QP
4	160.950	11.02	1.57	11.58	24.17	43.50	19.33	QP
5	524.700	18.35	4.12	2.78	25.25	46.00	20.75	QP
6	610.060	19.70	4.55	3.06	27.31	46.00	18.69	QP

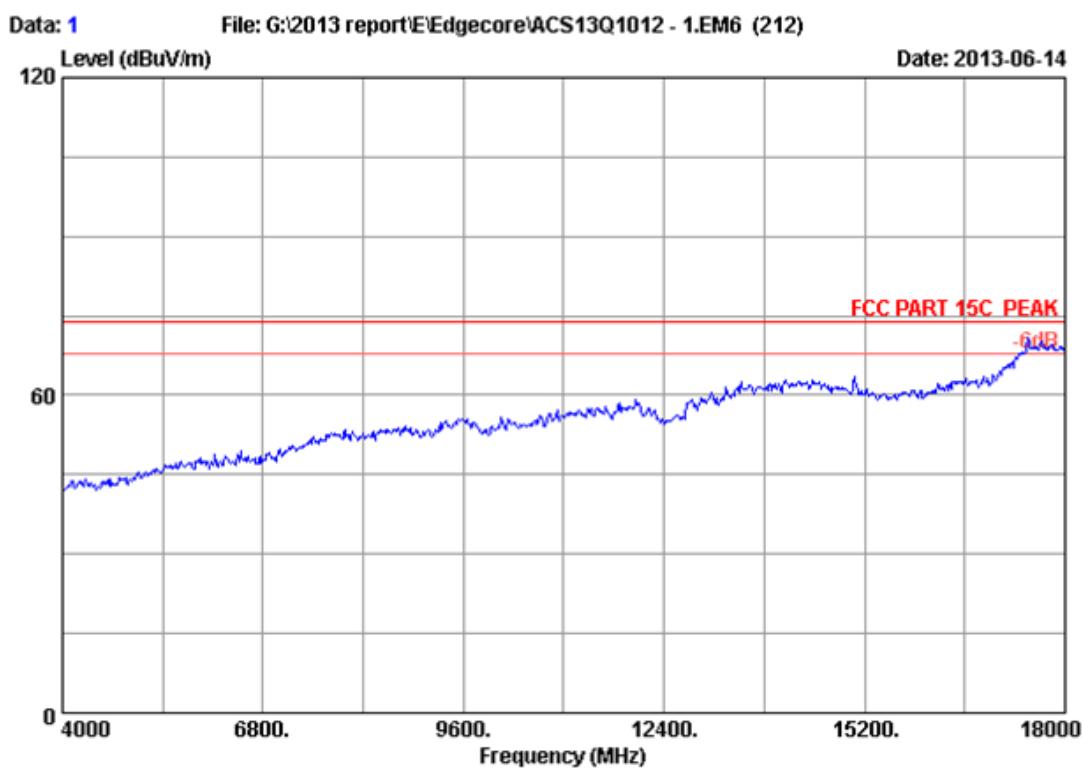
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m 2010 CBL6111C 2598 Ant. pol. : VERTICAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 24°C/65% Engineer : Leo-Li
 EUT : 2.4GHz 300Mbps Wireless PCI Adapter
 Power rating : DC 3.3V From PC Input AC 120V/60Hz
 Test Mode : Tx Mode
 M/N:SMCWPCI-N5

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	75.590	7.38	1.01	23.31	31.70	40.00	8.30	QP
2	109.540	11.40	1.24	21.63	34.27	43.50	9.23	QP
3	138.640	12.02	1.43	13.85	27.30	43.50	16.20	QP
4	212.360	10.06	1.97	11.68	23.71	43.50	19.79	QP
5	610.060	19.70	4.55	6.75	31.00	46.00	15.00	QP
6	677.960	20.72	4.89	5.80	31.41	46.00	14.59	QP

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

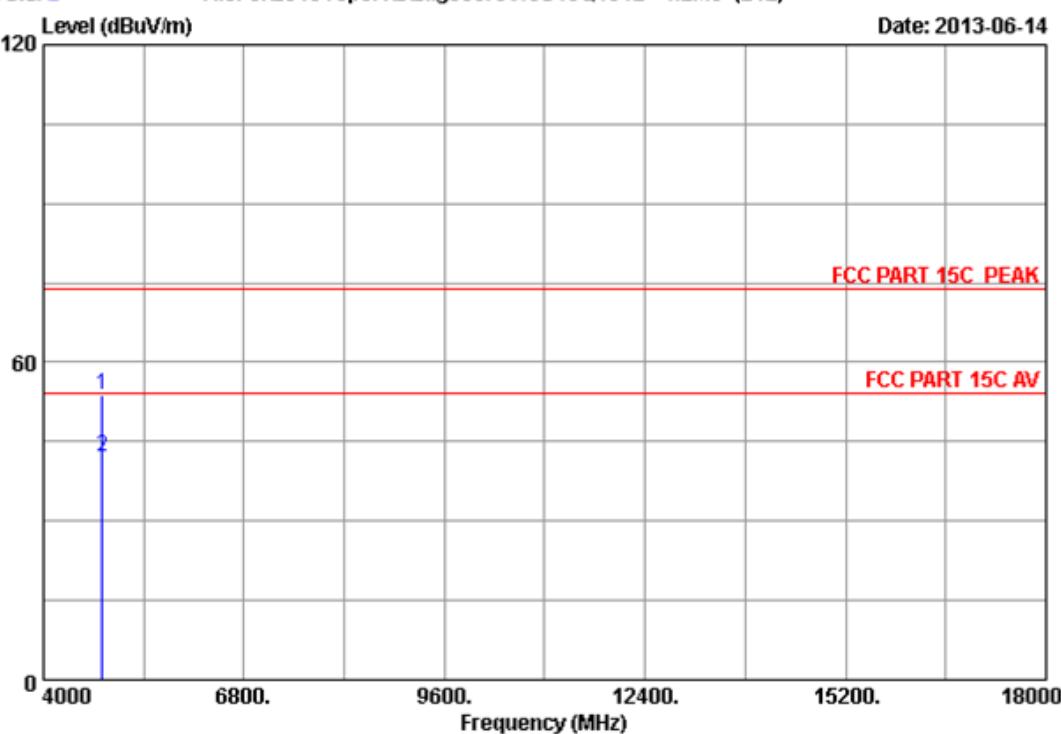
Frequency: 1GHz~18GHz

Site no.	:	3m Chamber	Data no. :	1
Dis. / Ant.	:	3m 3115(0911)	Ant. pol. :	HORIZONTAL
Limit	:	FCC PART 15C PEAK	Engineer :	Leo-Li
Env. / Ins.	:	23°C/54%		
EUT	:	2.4GHz 300Mbps Wireless PCI Adapter		
Power supply	:	DC 3.3V From PC input AC 120V/60Hz		
Test mode	:	IEEE802.11b CH1 2412MHz Tx		
M/N	:	SMCWPCI-N5		
	:			

Data: 2

File: G:\2013 report\E\Edgecore\ACS13Q1012 - 1.EM6 (212)

Date: 2013-06-14

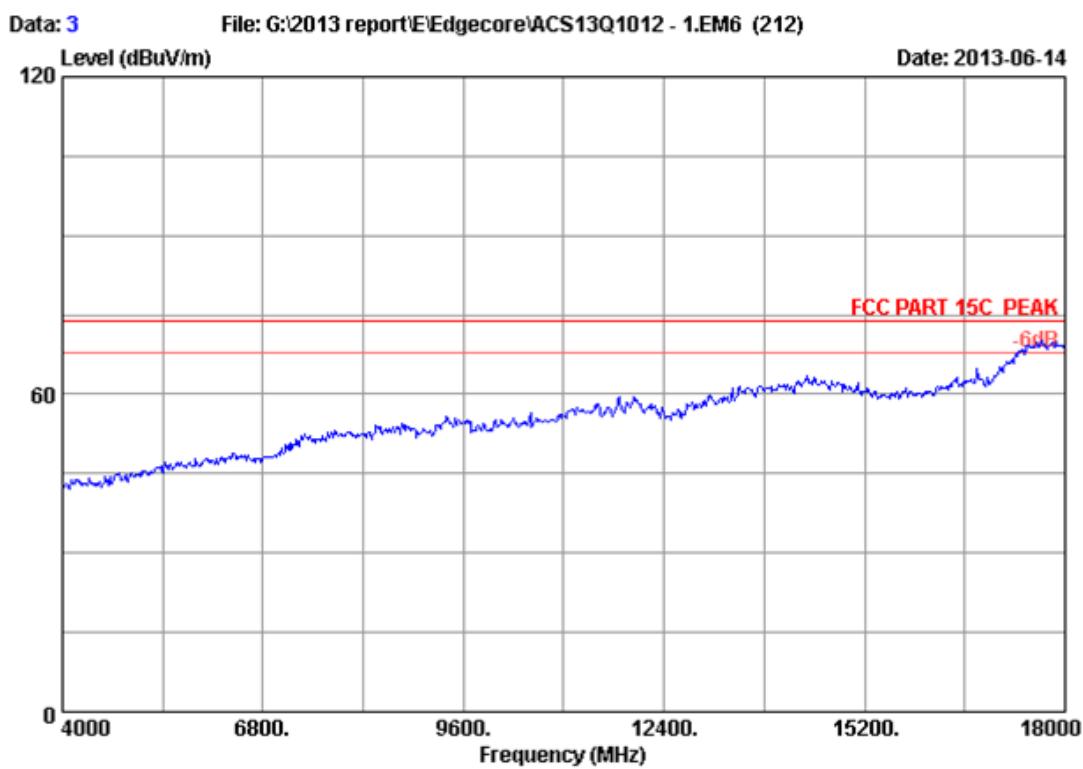


Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 2.4GHz 300Mbps Wireless PCI Adapter
 Power supply : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : SMCWPCI-N5
 :

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dB _{uV})	Level (dB _{uV/m})	Limits (dB _{uV/m})	Margin (dB)	Remark
1 4824.000	34.32	10.64	35.08	43.93	53.81	74.00	20.19	Peak
2 4824.000	34.32	10.64	35.08	32.40	42.28	54.00	11.72	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.

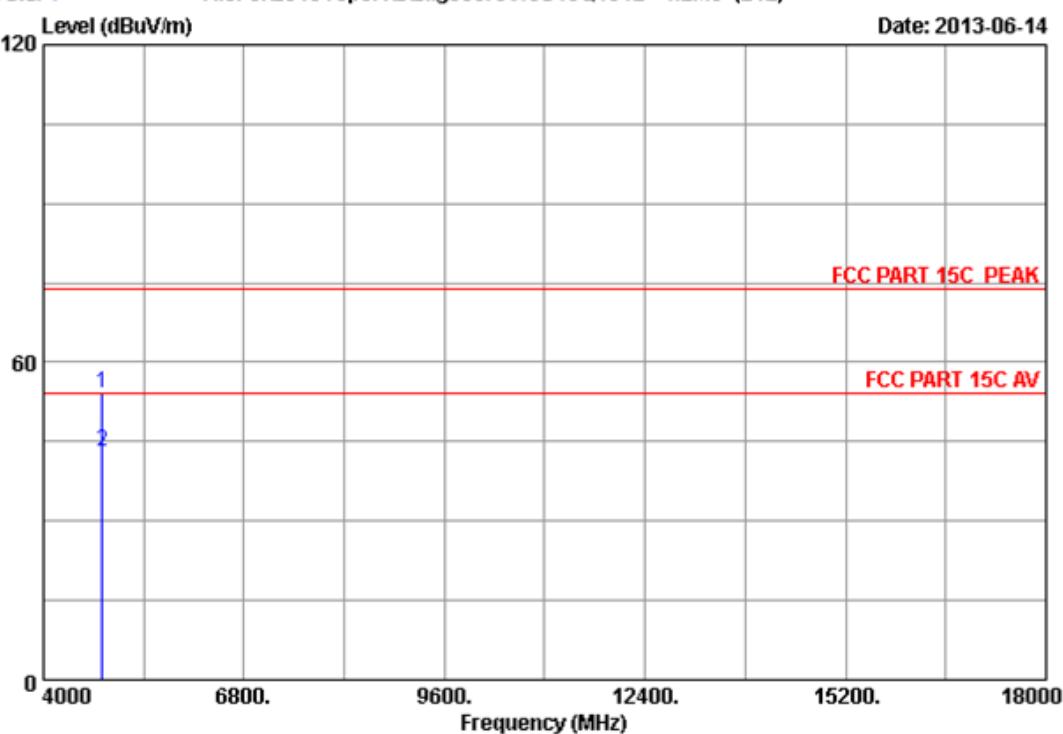


Site no. : 3m Chamber Data no. : 3
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH1 2412MHz Tx
M/N : SMCWPCI-N5
:

Data: 4

File: G:\2013 report\E\Edgecore\ACS13Q1012 - 1.EM6 (212)

Date: 2013-06-14

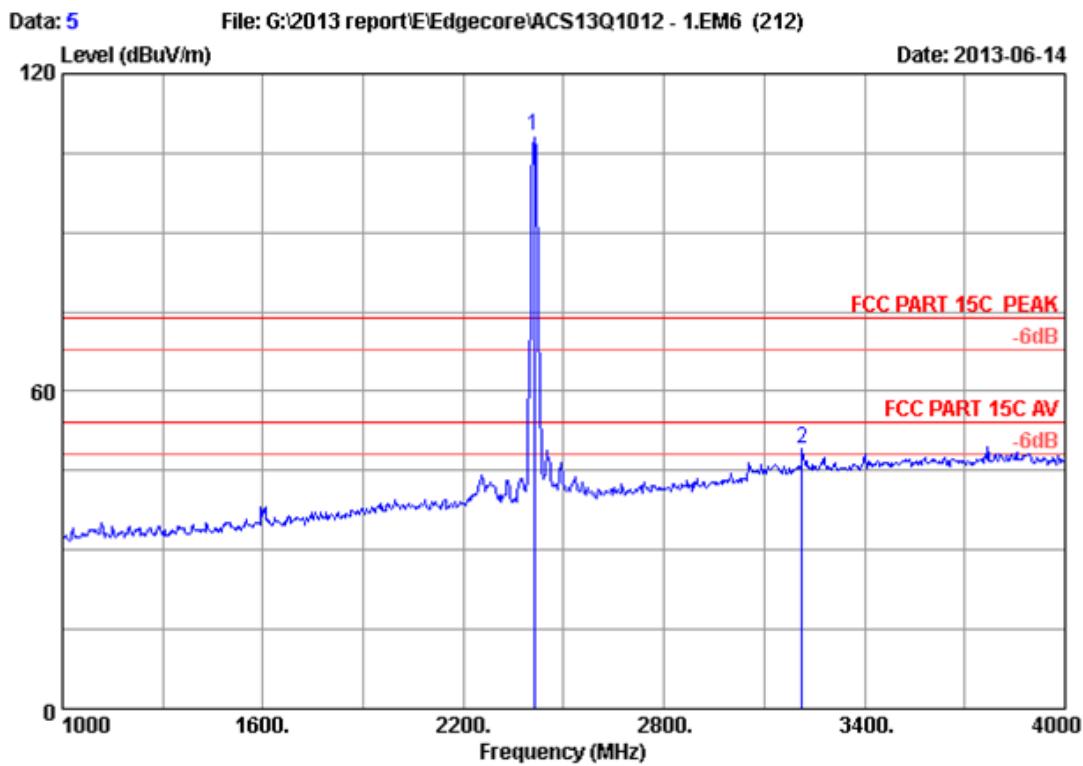


Site no. : 3m Chamber Data no. : 4
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH1 2412MHz Tx
M/N : SMCWPCI-N5
:

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dB _{uV})	Level (dB _{uV/m})	Limits (dB _{uV/m})	Margin (dB)	Remark
1 4824.000	34.32	10.64	35.08	44.27	54.15	74.00	19.85	Peak
2 4824.000	34.32	10.64	35.08	33.23	43.11	54.00	10.89	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.

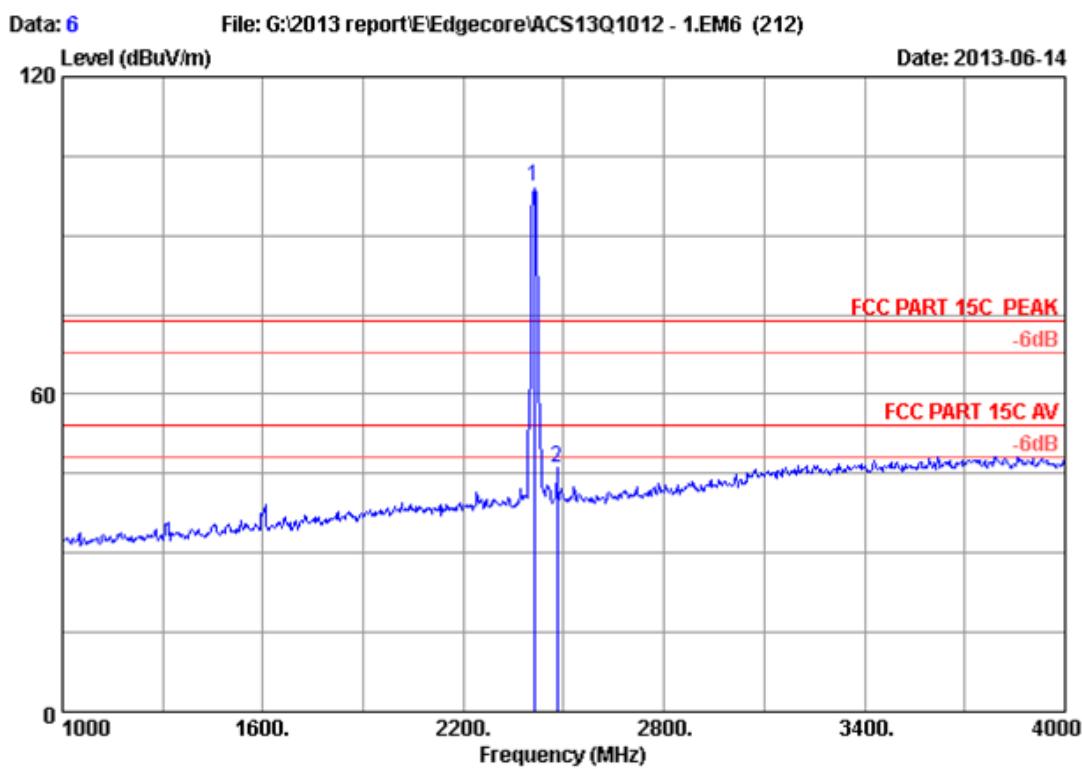


Site no. : 3m Chamber Data no. : 5
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH1 2412MHz Tx
M/N : SMCWPCI-N5
:

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 2412.000	29.45	7.43	36.62	107.91	108.17	74.00	-34.17	Peak
2 3214.000	32.54	8.79	36.28	44.14	49.19	74.00	24.81	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.



Site no. : 3m Chamber Data no. : 6
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH1 2412MHz Tx
M/N : SMCWPCI-N5
:

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 2412.000	29.45	7.43	36.62	98.96	99.22	74.00	-25.22	Peak
2 2479.000	29.49	7.58	36.60	45.54	46.01	74.00	27.99	Peak

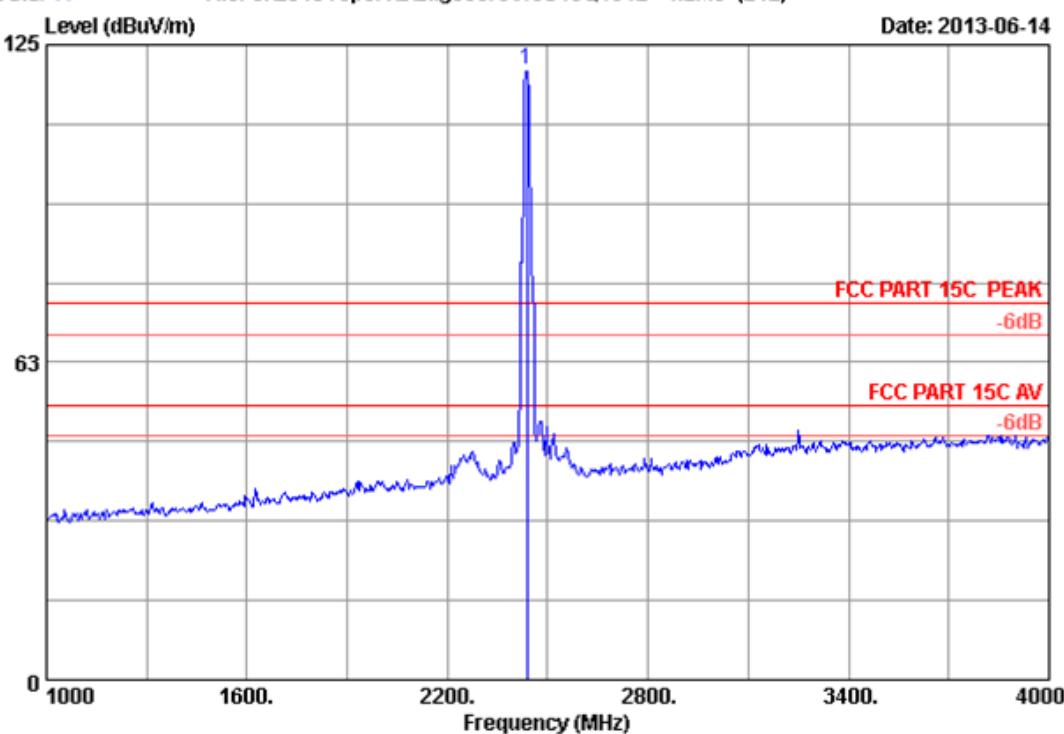
Remarks:

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

Data: 11

File: G:\2013 report\E\Edgecore\ACS13Q1012 - 1.EM6 (212)

Date: 2013-06-14



Site no. : 3m Chamber Data no. : 11
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH6 2437MHz Tx
M/N : SMCWPCI-N5
:

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 2437.000	29.47	7.46	36.61	119.82	120.14	74.00	-46.14	Peak

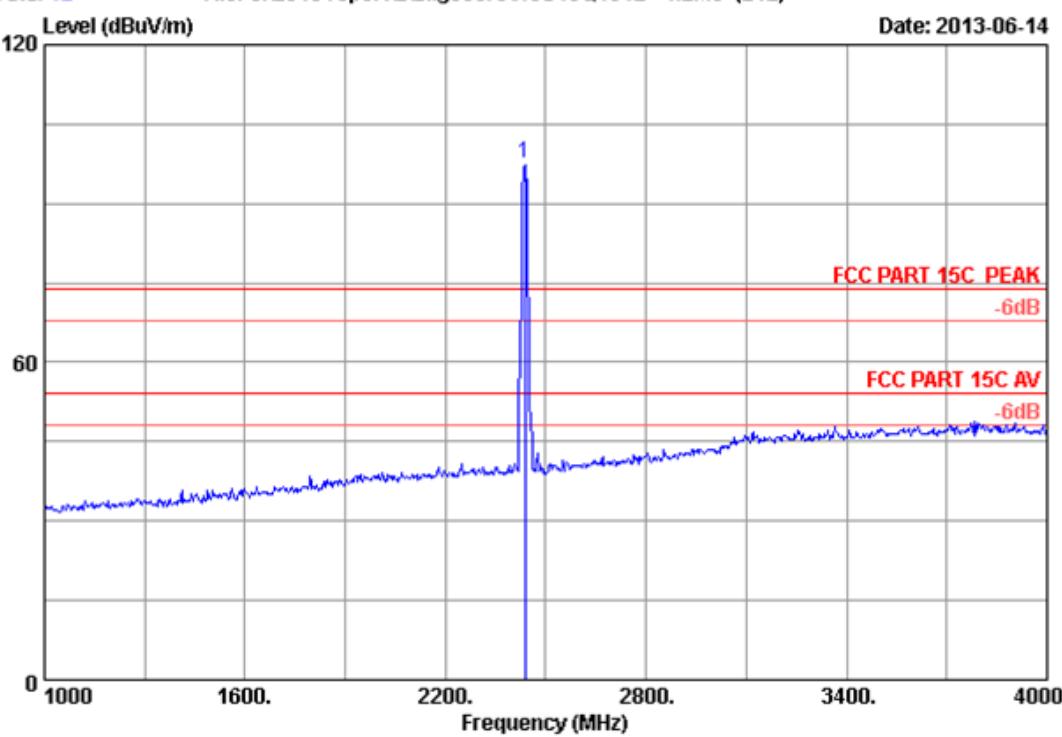
Remarks:

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

Data: 12

File: G:\2013 report\E\Edgecore\ACS13Q1012 - 1.EM6 (212)

Date: 2013-06-14

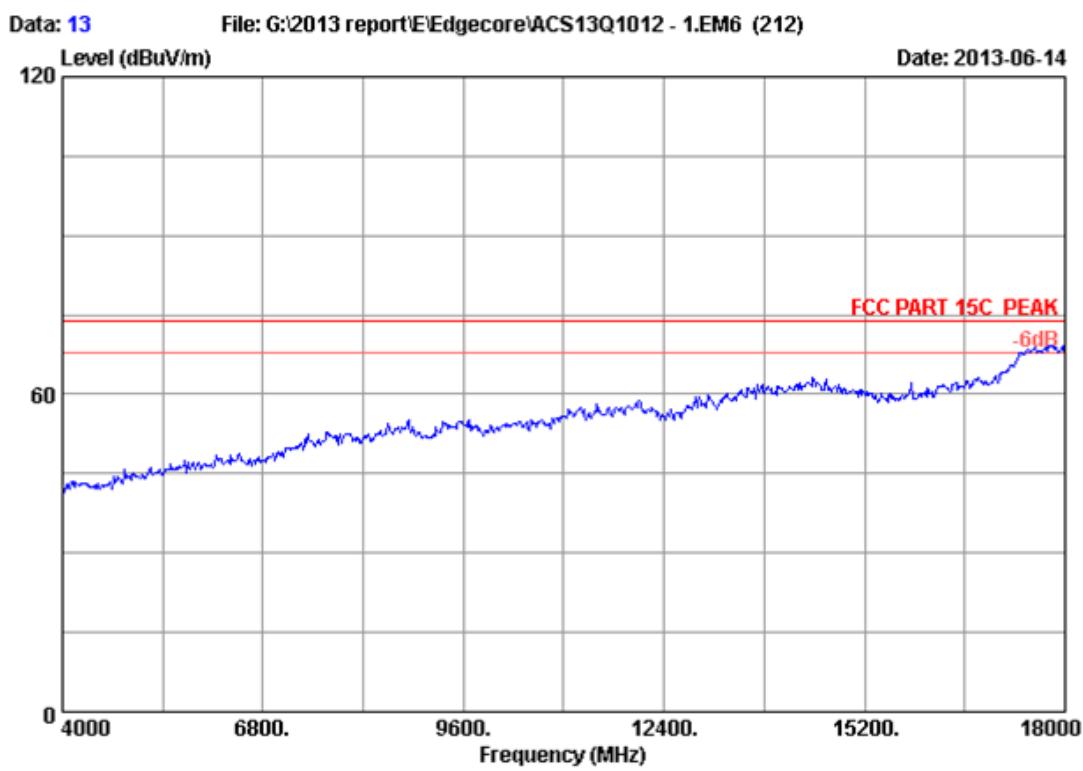


Site no. : 3m Chamber Data no. : 12
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH6 2437MHz Tx
M/N : SMCWPCI-N5
:

	Ant.	Cable	Amp.	Emission			
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin
(MHz)	(dB/m)	(dB)	(dB)	(dB _B V)	(dB _B V/m)	(dB _B V/m)	(dB)
1	2437.000	29.47	7.46	36.61	97.12	97.44	74.00 -23.44 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.

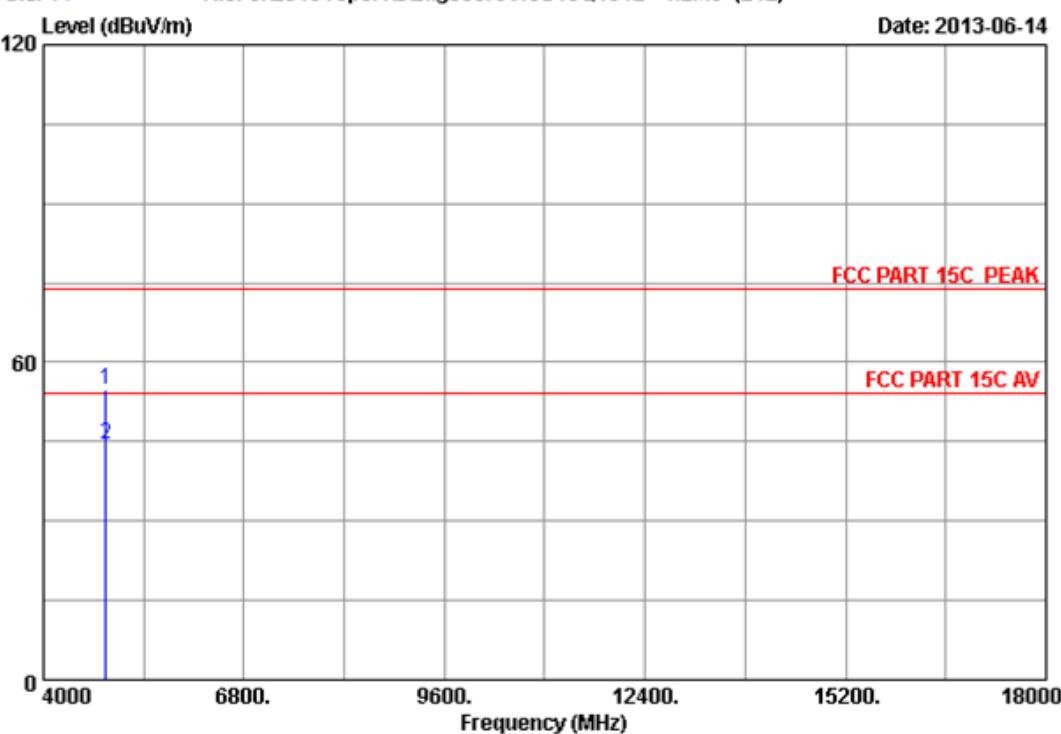


Site no. : 3m Chamber Data no. : 13
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH6 2437MHz Tx
M/N : SMCWPCI-N5
:

Data: 14

File: G:\2013 report\E\Edgecore\ACS13Q1012 - 1.EM6 (212)

Date: 2013-06-14

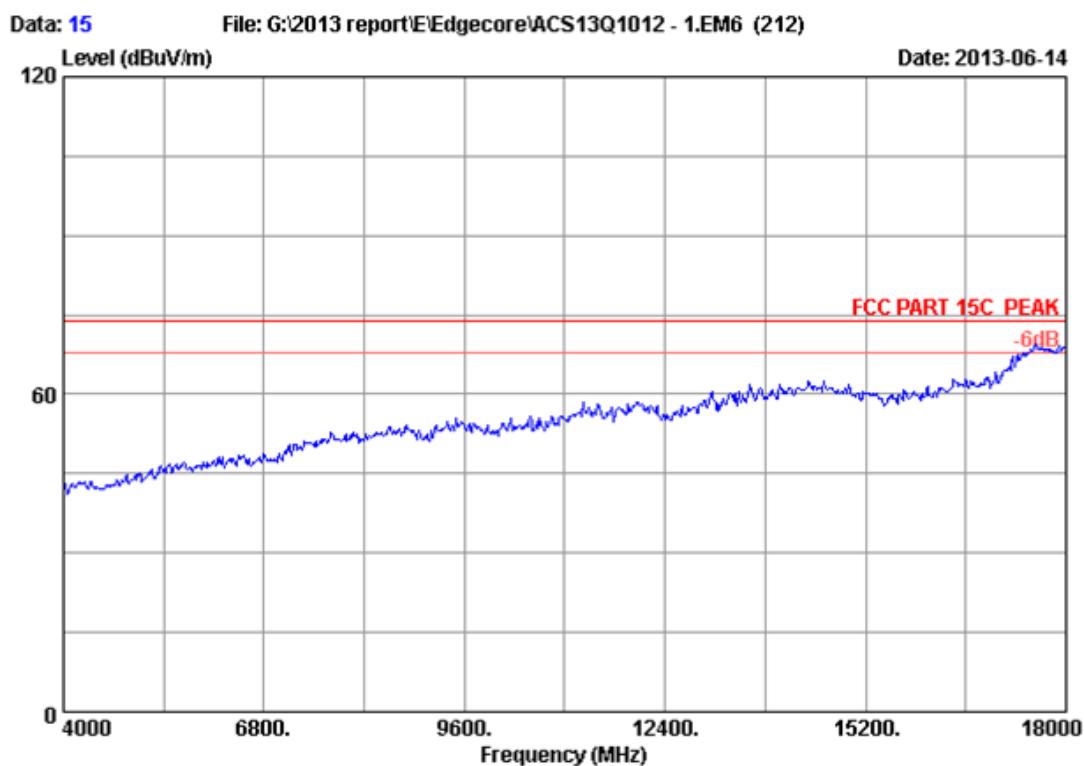


Site no. : 3m Chamber Data no. : 14
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH6 2437MHz Tx
M/N : SMCWPCI-N5
:

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dB _{UV})	Level (dB _{UV} /m)	Limits (dB _{UV} /m)	Margin (dB)	Remark
1 4874.000	34.41	10.69	35.03	44.87	54.94	74.00	19.06	Peak
2 4874.000	34.41	10.69	35.03	34.37	44.44	54.00	9.56	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.

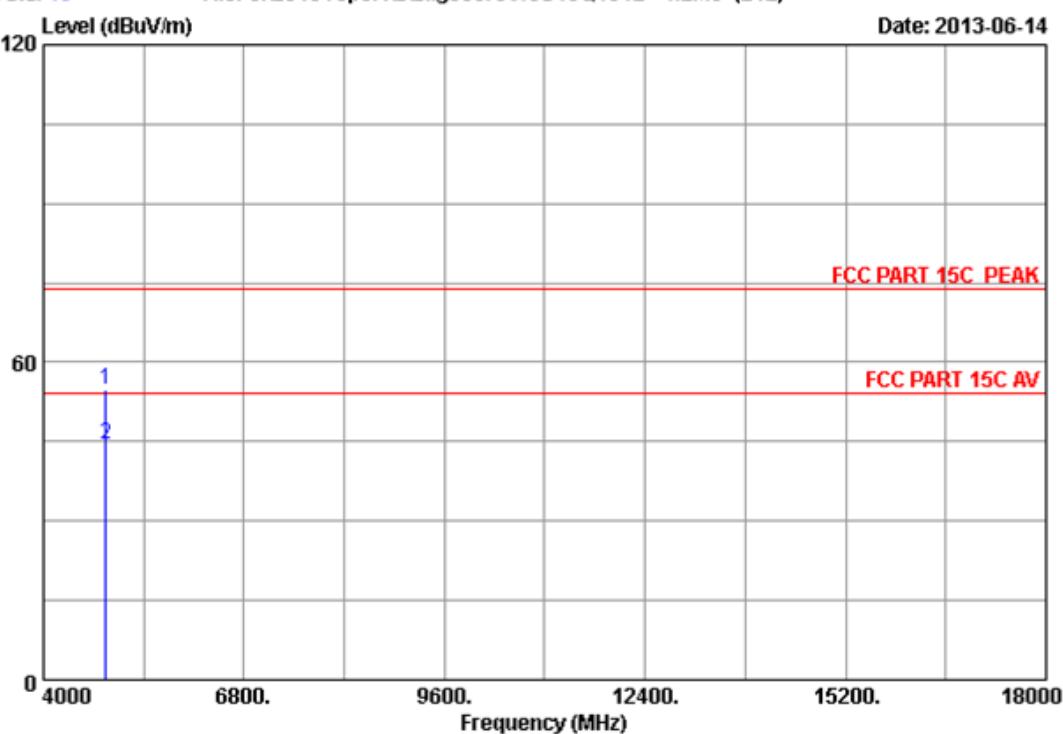


Site no. : 3m Chamber Data no. : 15
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH6 2437MHz Tx
M/N : SMCWPCI-N5
:

Data: 16

File: G:\2013 report\E\Edgecore\ACS13Q1012 - 1.EM6 (212)

Date: 2013-06-14

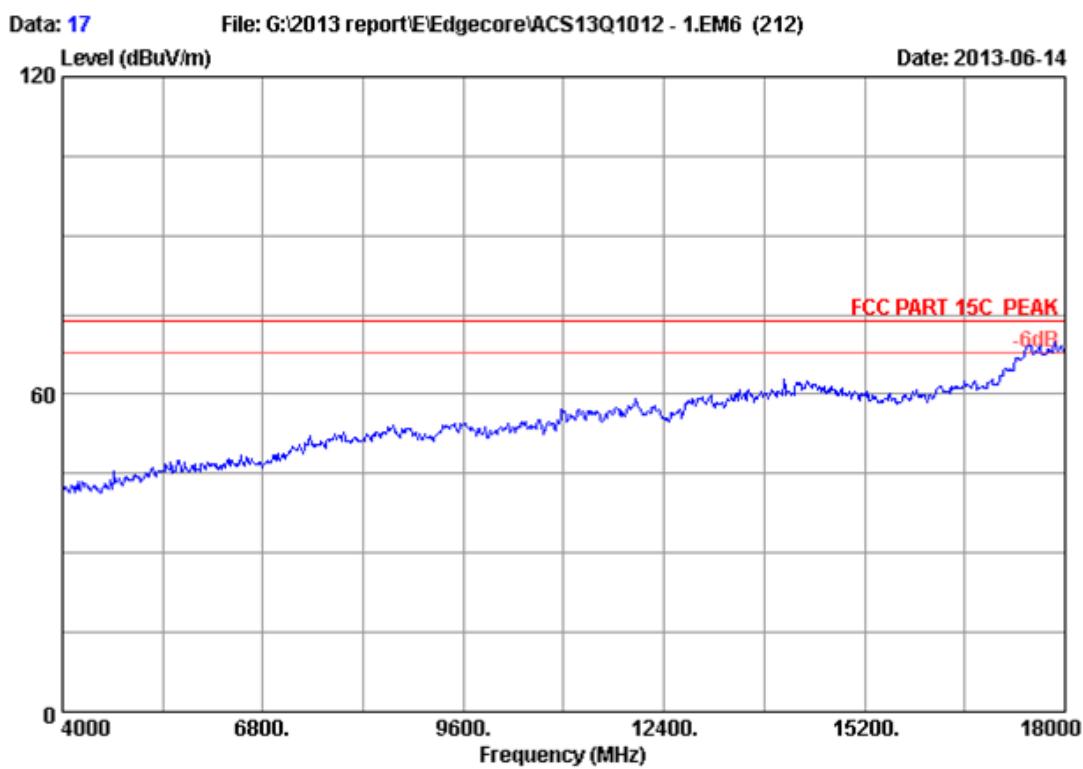


Site no. : 3m Chamber Data no. : 16
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH6 2437MHz Tx
M/N : SMCWPCI-N5
:

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 4874.000	34.41	10.69	35.03	44.89	54.96	74.00	19.04	Peak
2 4874.000	34.41	10.69	35.03	34.50	44.57	54.00	9.43	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.

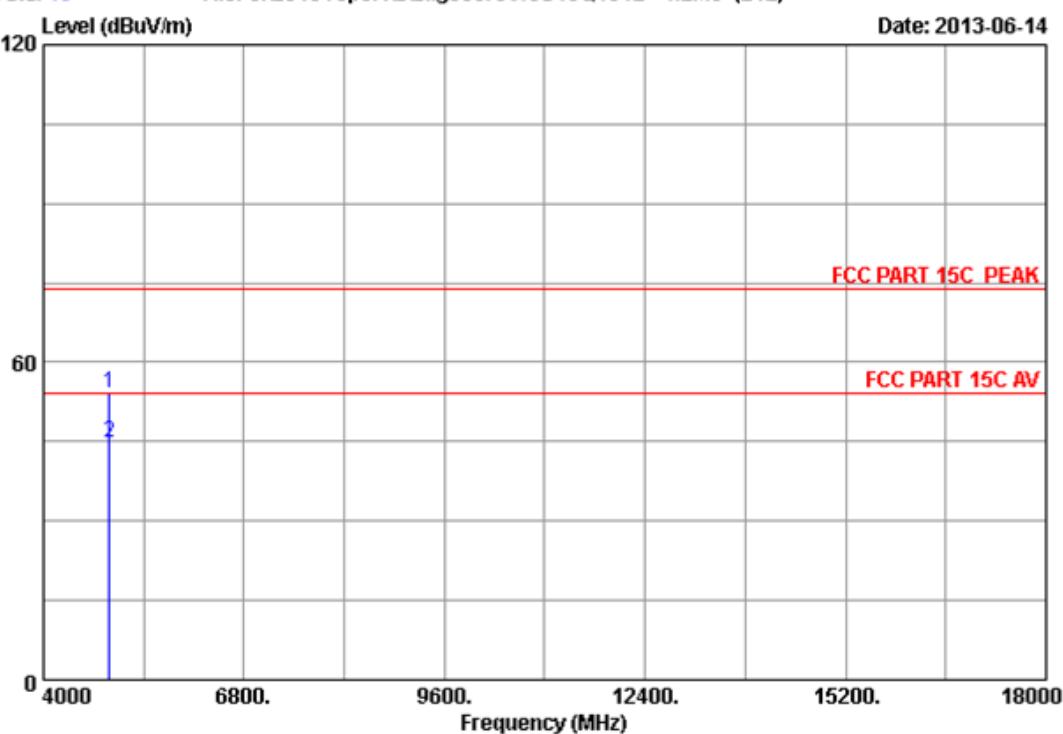


Site no. : 3m Chamber Data no. : 17
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH6 2462MHz Tx
M/N : SMCWPCI-N5
:

Data: 18

File: G:\2013 report\E\Edgecore\ACS13Q1012 - 1.EM6 (212)

Date: 2013-06-14

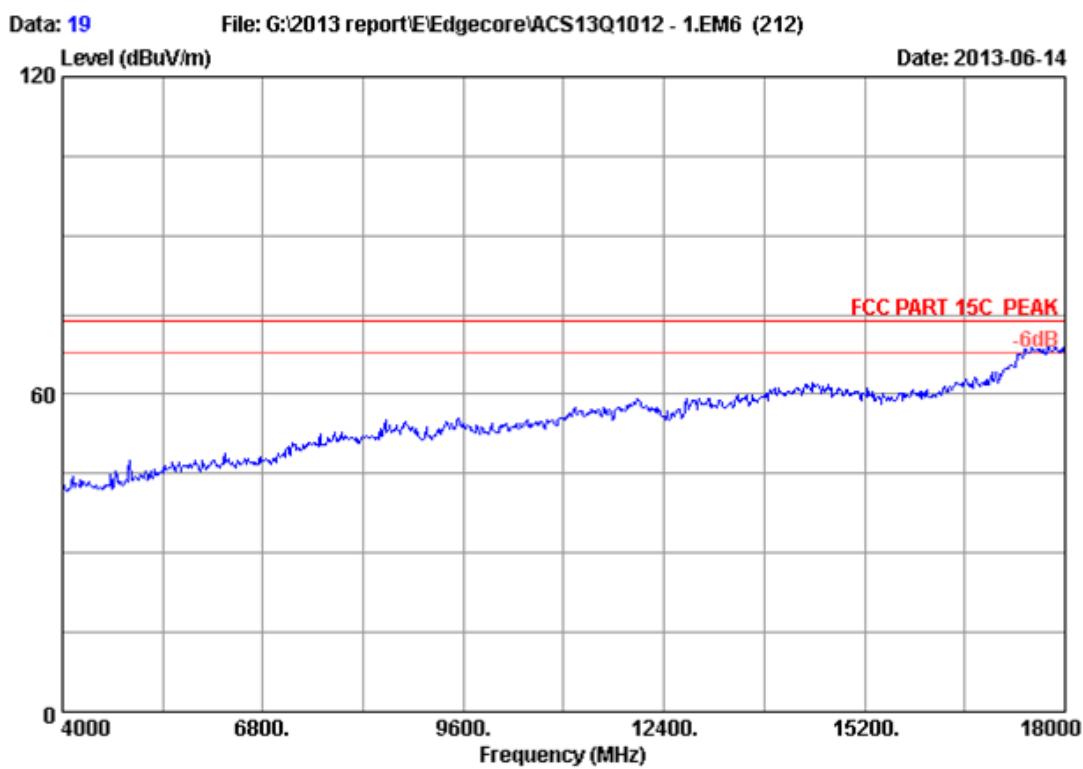


Site no. : 3m Chamber Data no. : 18
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH6 2462MHz Tx
M/N : SMCWPCI-N5
:

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dB _{uV})	Level (dB _{uV/m})	Limits (dB _{uV/m})	Margin (dB)	Remark
1 4924.000	34.49	10.76	34.98	44.03	54.30	74.00	19.70	Peak
2 4924.000	34.49	10.76	34.98	34.59	44.86	54.00	9.14	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.

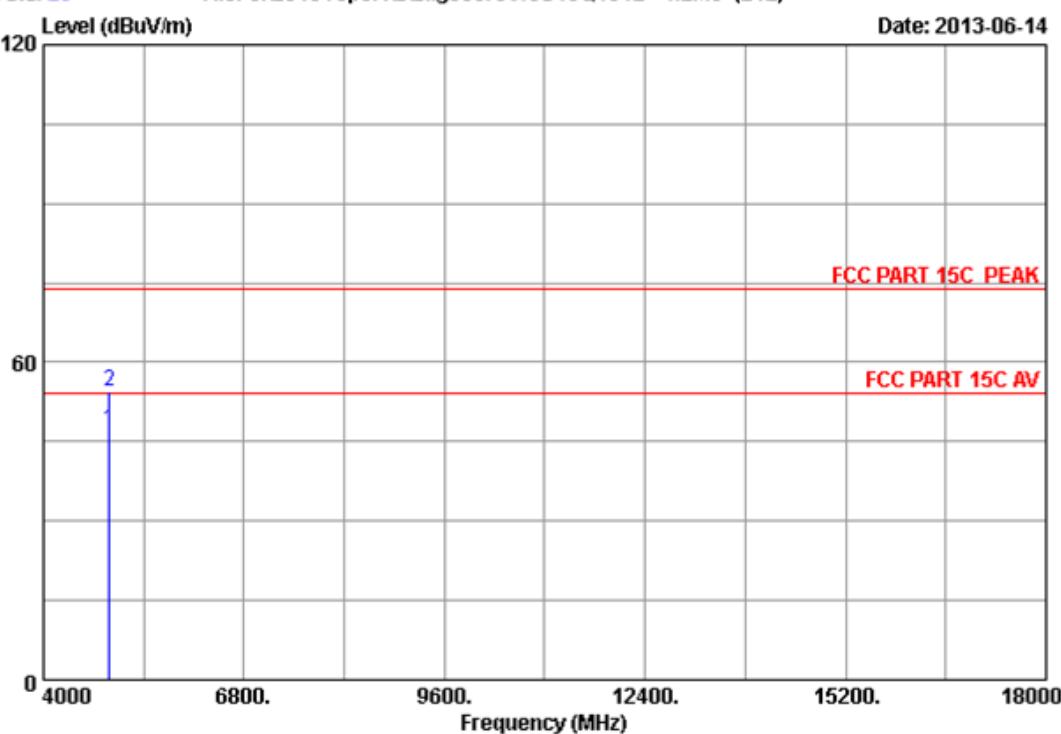


Site no. : 3m Chamber Data no. : 19
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH6 2462MHz Tx
M/N : SMCWPCI-N5
:

Data: 20

File: G:\2013 report\E\Edgecore\ACS13Q1012 - 1.EM6 (212)

Date: 2013-06-14



Site no. : 3m Chamber Data no. : 20
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH6 2462MHz Tx
M/N : SMCWPCI-N5
:

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dB _{uV})	Level (dB _{uV/m})	Limits (dB _{uV/m})	Margin (dB)	Remark
1 4924.000	34.49	10.76	34.98	36.73	47.00	54.00	7.00	Average
2 4924.000	34.49	10.76	34.98	44.12	54.39	74.00	19.61	Peak

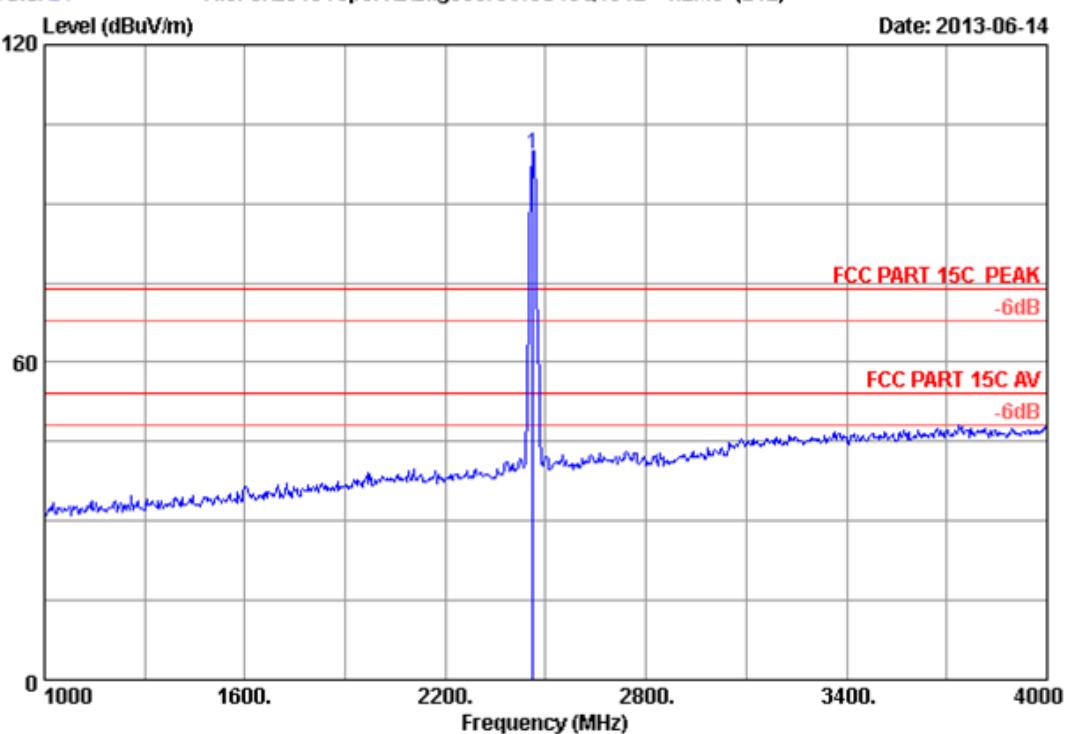
Remarks:

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

Data: 21

File: G:\2013 report\E\Edgecore\ACS13Q1012 - 1.EM6 (212)

Date: 2013-06-14



Site no. : 3m Chamber Data no. : 21
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH6 2462MHz Tx
M/N : SMCWPCI-N5
:

	Ant.	Cable	Amp.	Emission			
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin
(MHz)	(dB/m)	(dB)	(dB)	(dB _B V)	(dB _B V/m)	(dB _B V/m)	(dB)
1	2462.000	29.48	7.54	36.61	98.75	99.16	74.00 -25.16 Peak

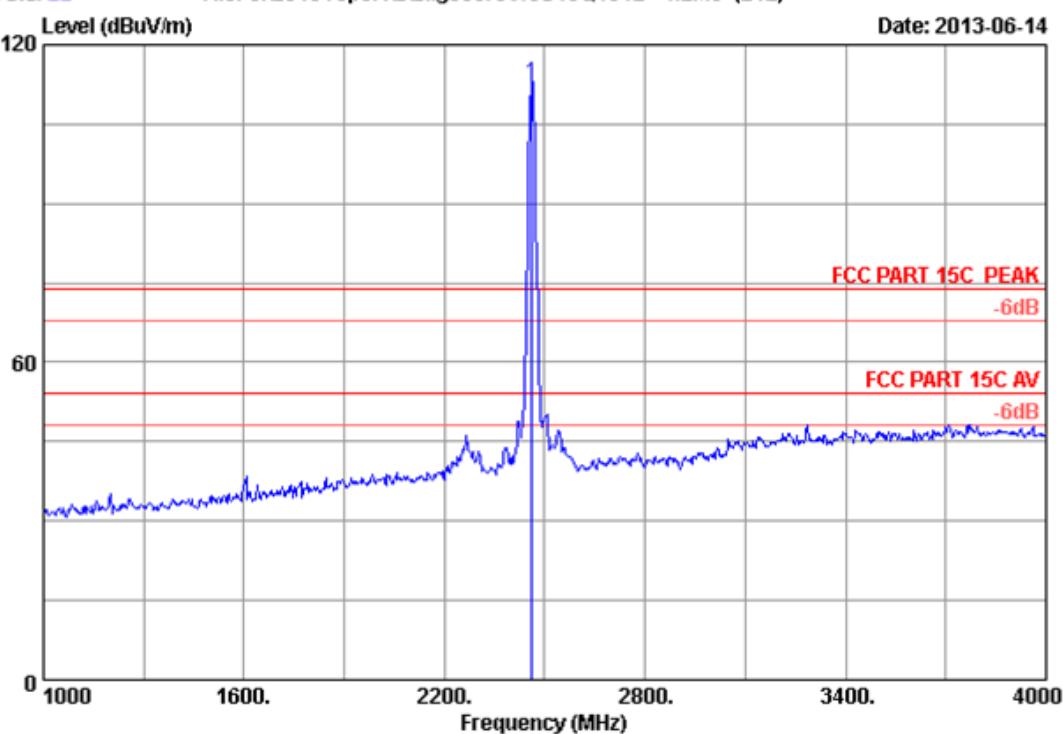
Remarks:

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

Data: 22

File: G:\2013 report\E\Edgecore\ACS13Q1012 - 1.EM6 (212)

Date: 2013-06-14



Site no. : 3m Chamber Data no. : 22
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH6 2462MHz Tx
M/N : SMCWPCI-N5
:

	Ant.	Cable	Amp.	Emission			
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)
1	2462.000	29.48	7.54	36.61	112.18	112.59	74.00 -38.59 Peak

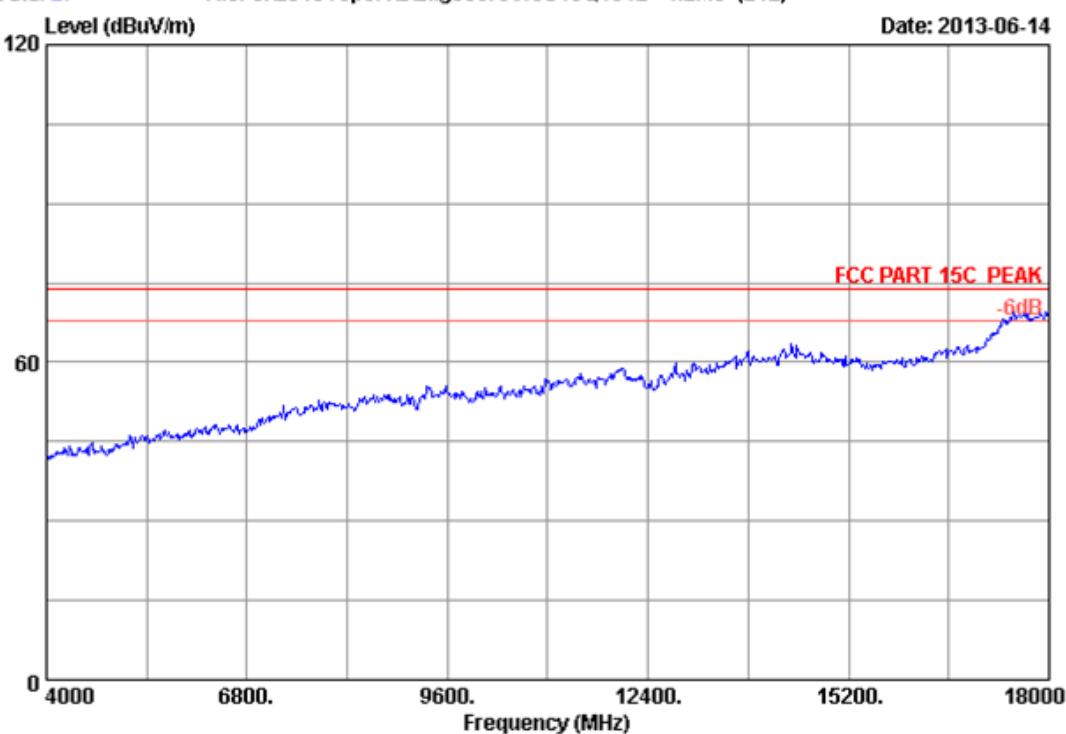
Remarks:

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

Data: 27

File: G:\2013 report\E\Edgecore\ACS13Q1012 - 1.EM6 (212)

Date: 2013-06-14

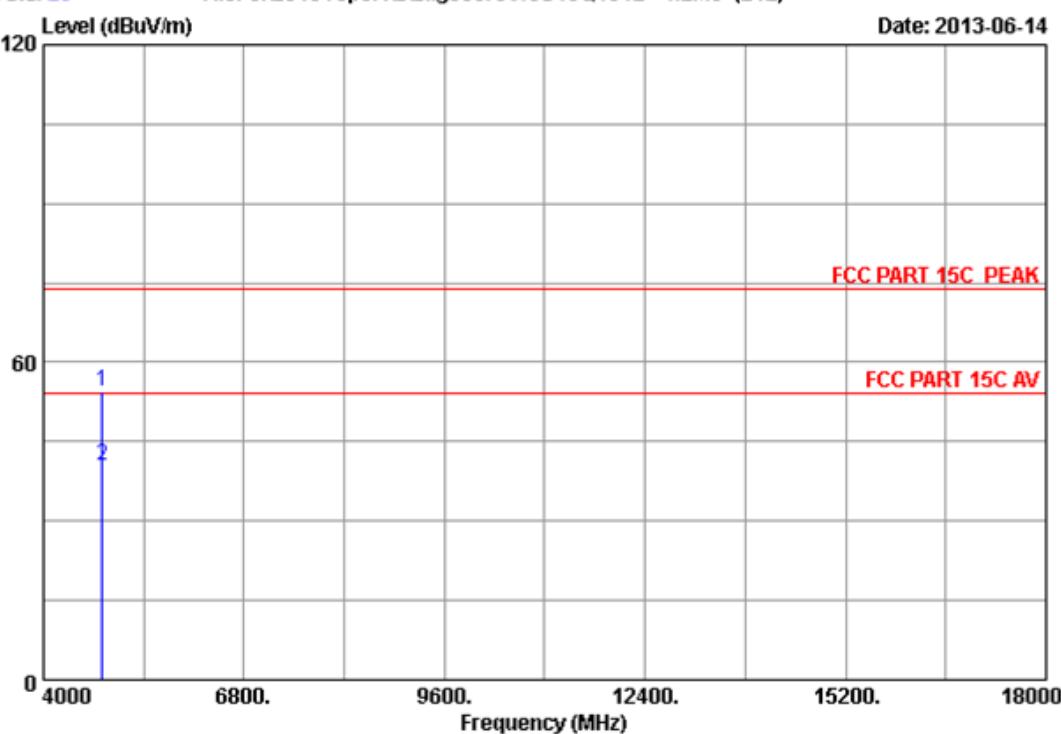


Site no.	:	3m Chamber	Data no.	:	27
Dis. / Ant.	:	3m 3115(0911)	Ant. pol.	:	HORIZONTAL
Limit	:	FCC PART 15C PEAK			
Env. / Ins.	:	23°C/54%	Engineer	:	Leo-Li
EUT	:	2.4GHz 300Mbps Wireless PCI Adapter			
Power supply	:	DC 3.3V From PC input AC 120V/60Hz			
Test mode	:	IEEE802.11g CH1 2412MHz Tx			
M/N	:	SMCWPCI-N5			
	:				

Data: 28

File: G:\2013 report\E\Edgecore\ACS13Q1012 - 1.EM6 (212)

Date: 2013-06-14

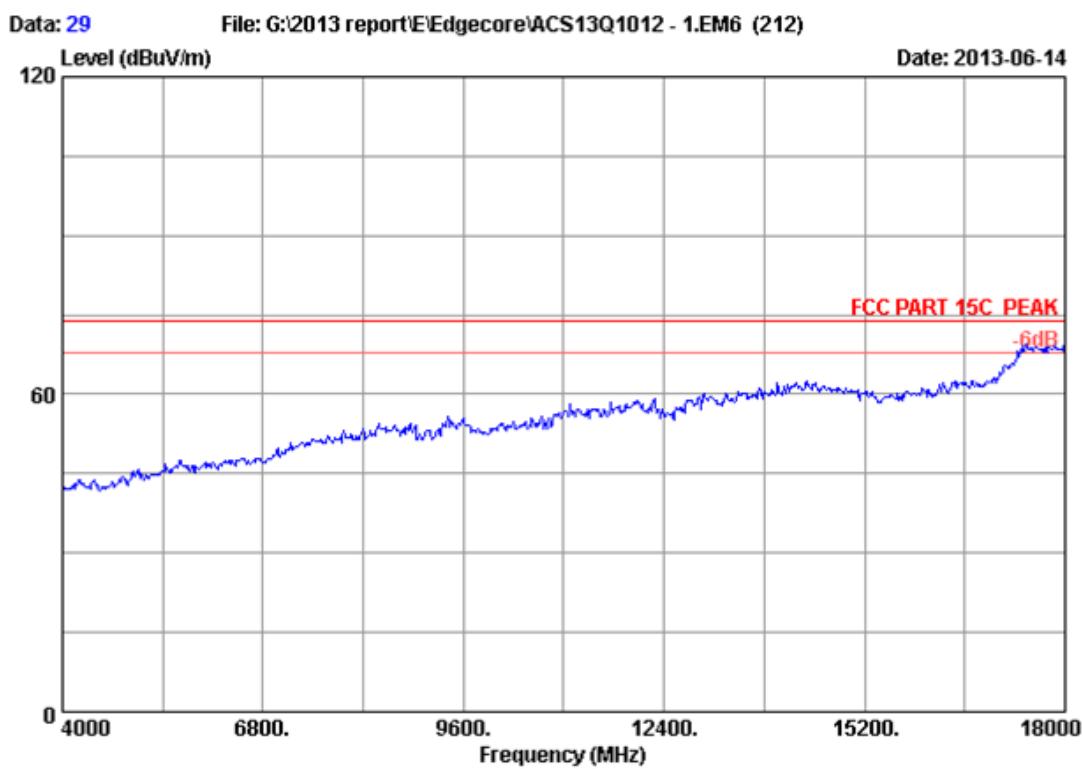


Site no. : 3m Chamber Data no. : 28
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 2.4GHz 300Mbps Wireless PCI Adapter
 Power supply : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : SMCWPCI-N5
 :

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 4824.000	34.32	10.64	35.08	44.64	54.52	74.00	19.48	Peak
2 4824.000	34.32	10.64	35.08	30.66	40.54	54.00	13.46	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.

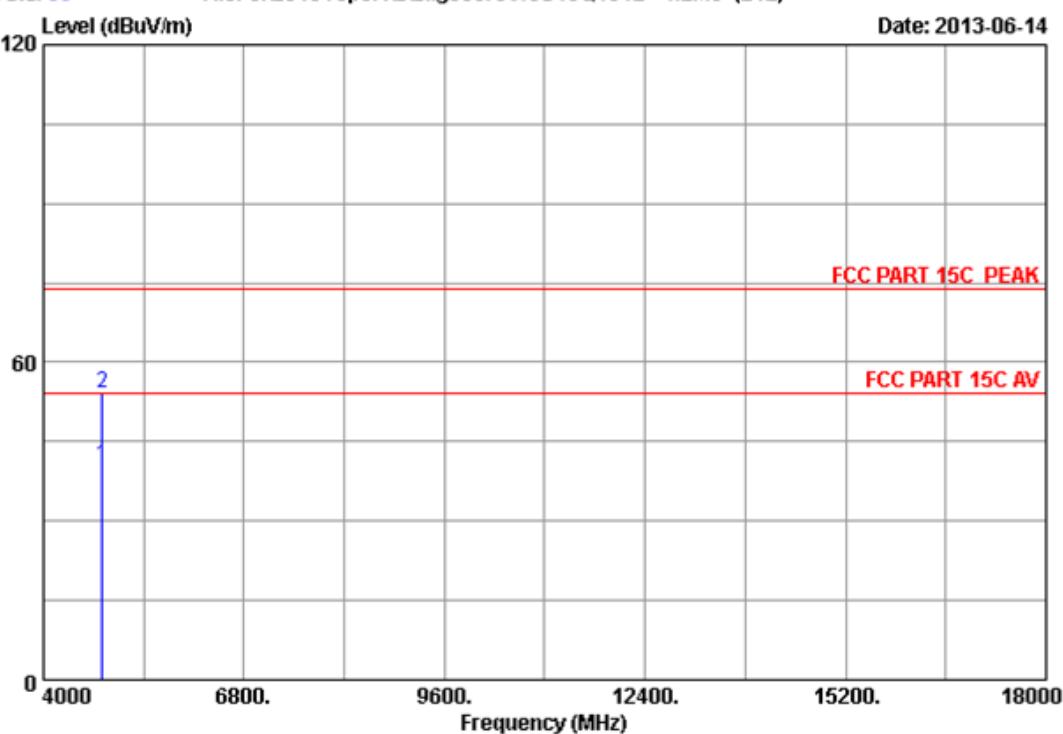


Site no. : 3m Chamber Data no. : 29
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH1 2412MHz Tx
M/N : SMCWPCI-N5
:

Data: 30

File: G:\2013 report\E\Edgecore\ACS13Q1012 - 1.EM6 (212)

Date: 2013-06-14



Site no. : 3m Chamber Data no. : 30
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH1 2412MHz Tx
M/N : SMCWPCI-N5
:

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dB _{uV})	Level (dB _{uV/m})	Limits (dB _{uV/m})	Margin (dB)	Remark
1 4824.000	34.32	10.64	35.08	30.69	40.57	54.00	13.43	Average
2 4824.000	34.32	10.64	35.08	44.24	54.12	74.00	19.88	Peak

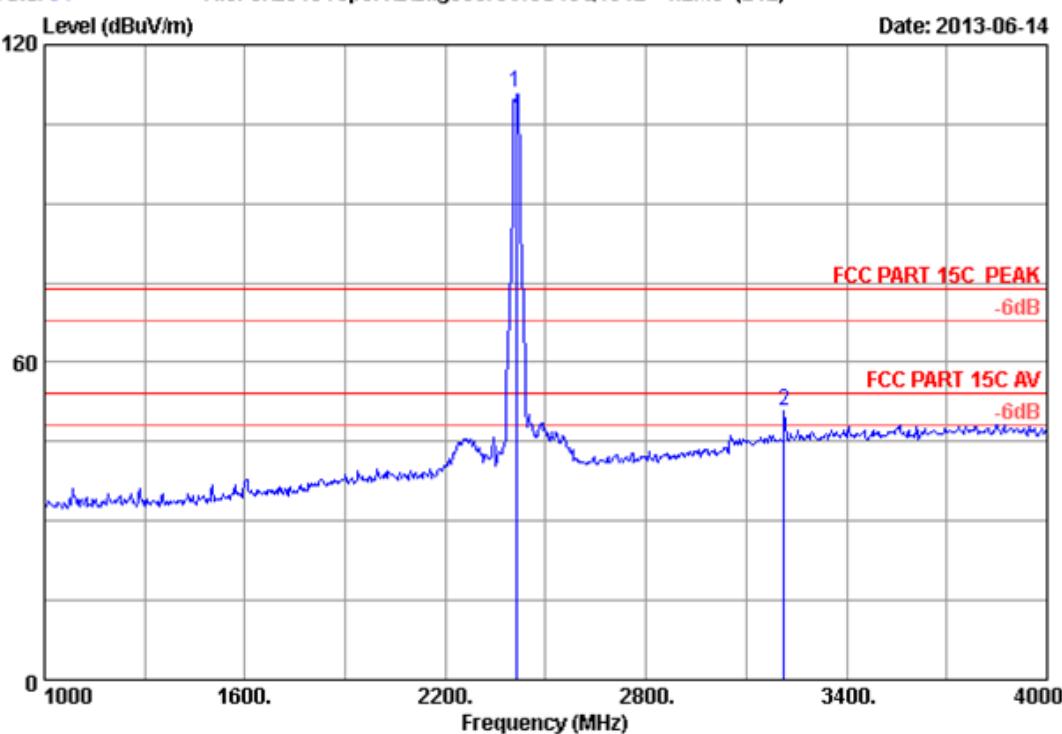
Remarks:

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

Data: 31

File: G:\2013 report\E\Edgecore\ACS13Q1012 - 1.EM6 (212)

Date: 2013-06-14



Site no. : 3m Chamber Data no. : 31
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH1 2412MHz Tx
M/N : SMCWPCI-N5
:

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 2412.000	29.45	7.43	36.62	110.65	110.91	74.00	-36.91	Peak
2 3214.000	32.54	8.79	36.28	45.82	50.87	74.00	23.13	Peak

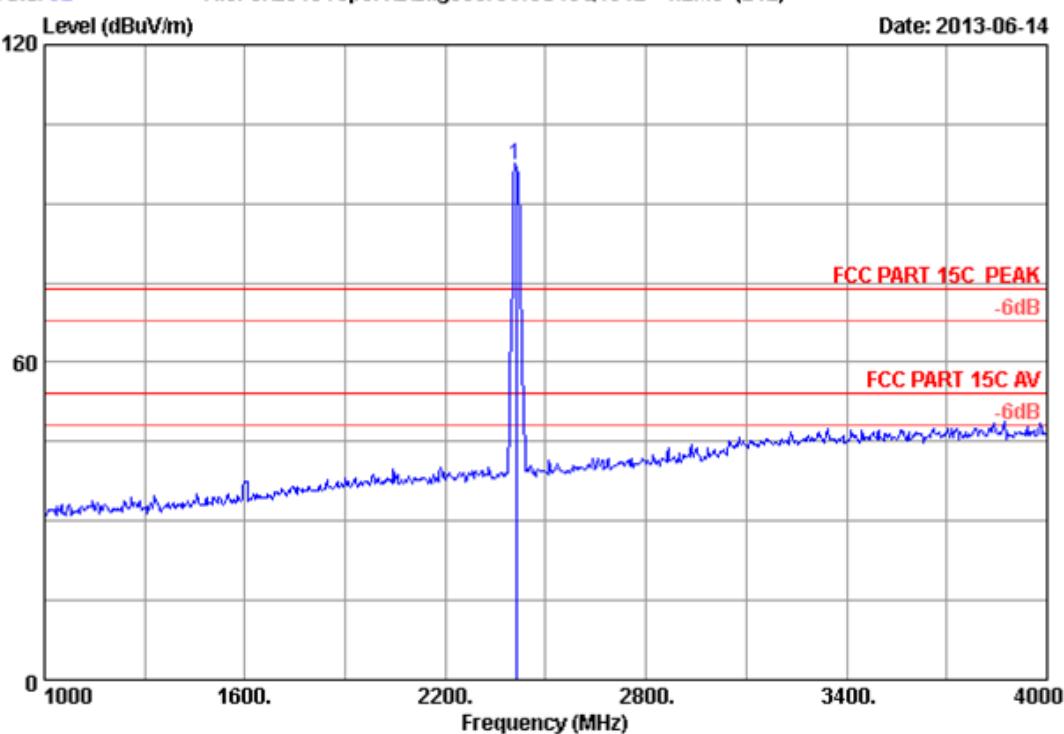
Remarks:

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

Data: 32

File: G:\2013 report\E\Edgecore\ACS13Q1012 - 1.EM6 (212)

Date: 2013-06-14



Site no. : 3m Chamber Data no. : 32
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH1 2412MHz Tx
M/N : SMCWPCI-N5
:

	Ant.	Cable	Amp.	Emission			
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin
(MHz)	(dB/m)	(dB)	(dB)	(dB _B V)	(dB _B V/m)	(dB _B V/m)	(dB)
1	2412.000	29.45	7.43	36.62	97.17	97.43	74.00 -23.43 Peak

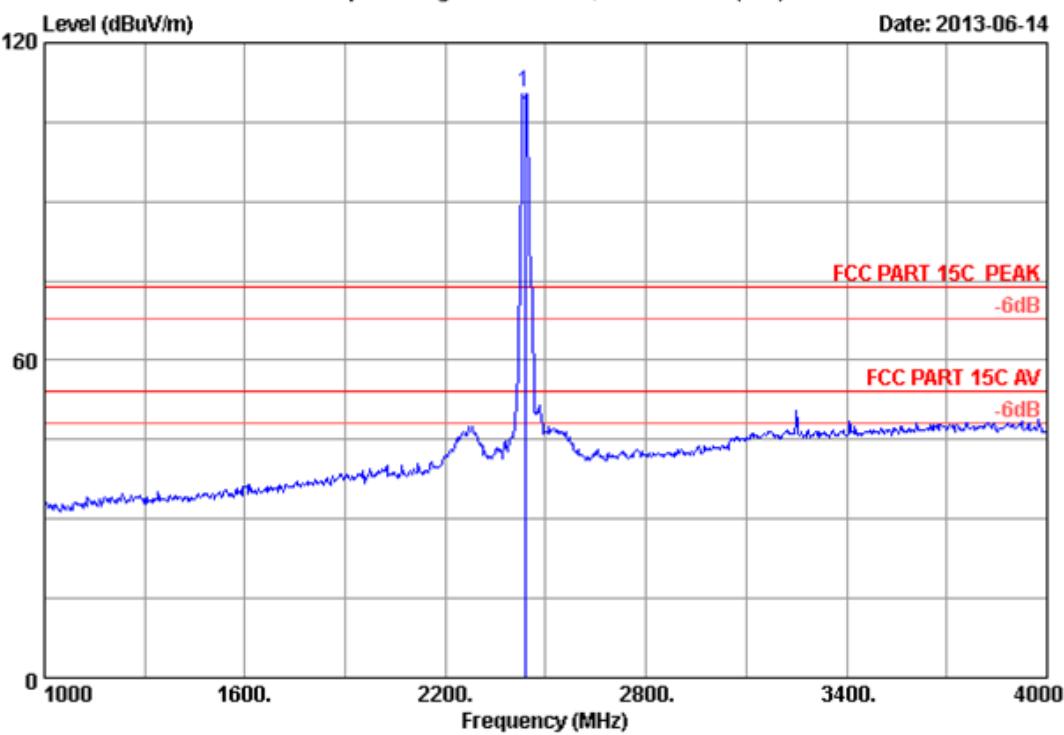
Remarks:

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

Data: 37

File: G:\2013 report\E\Edgecore\ACS13Q1012 - 1.EM6 (212)

Date: 2013-06-14



Site no. : 3m Chamber Data no. : 37
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH6 2437MHz Tx
M/N : SMCWPCI-N5
:

	Ant.	Cable	Amp.	Emission			
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)
1	2437.000	29.47	7.46	36.61	110.48	110.80	74.00 -36.80 Peak

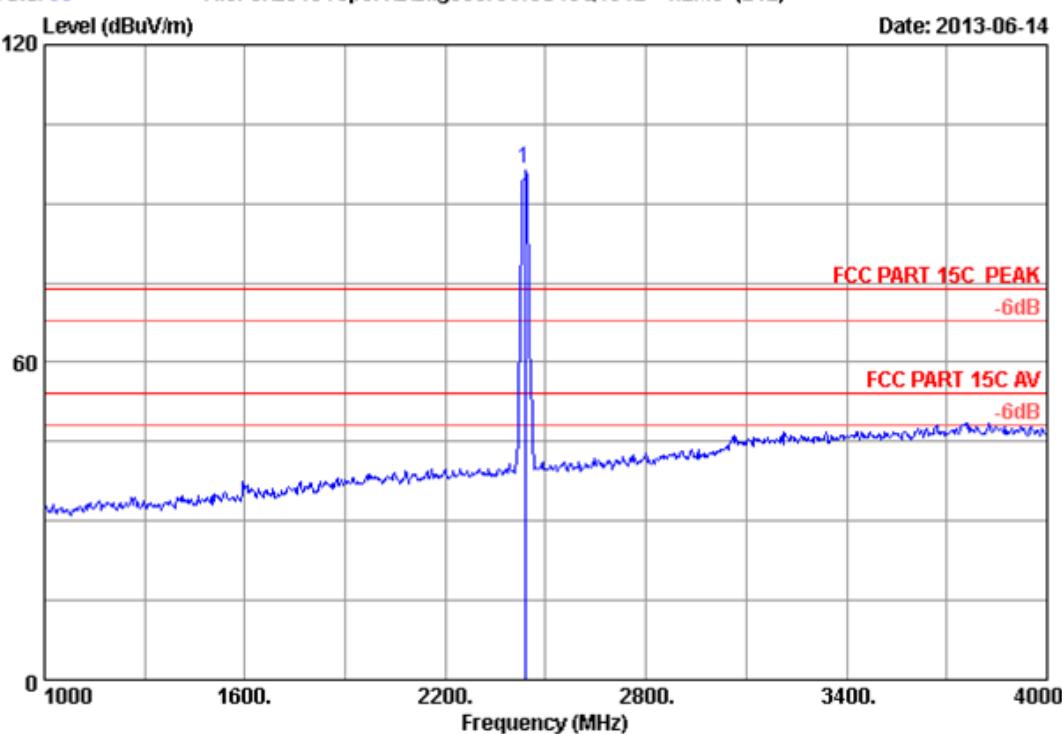
Remarks:

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

Data: 38

File: G:\2013 report\E\Edgecore\ACS13Q1012 - 1.EM6 (212)

Date: 2013-06-14

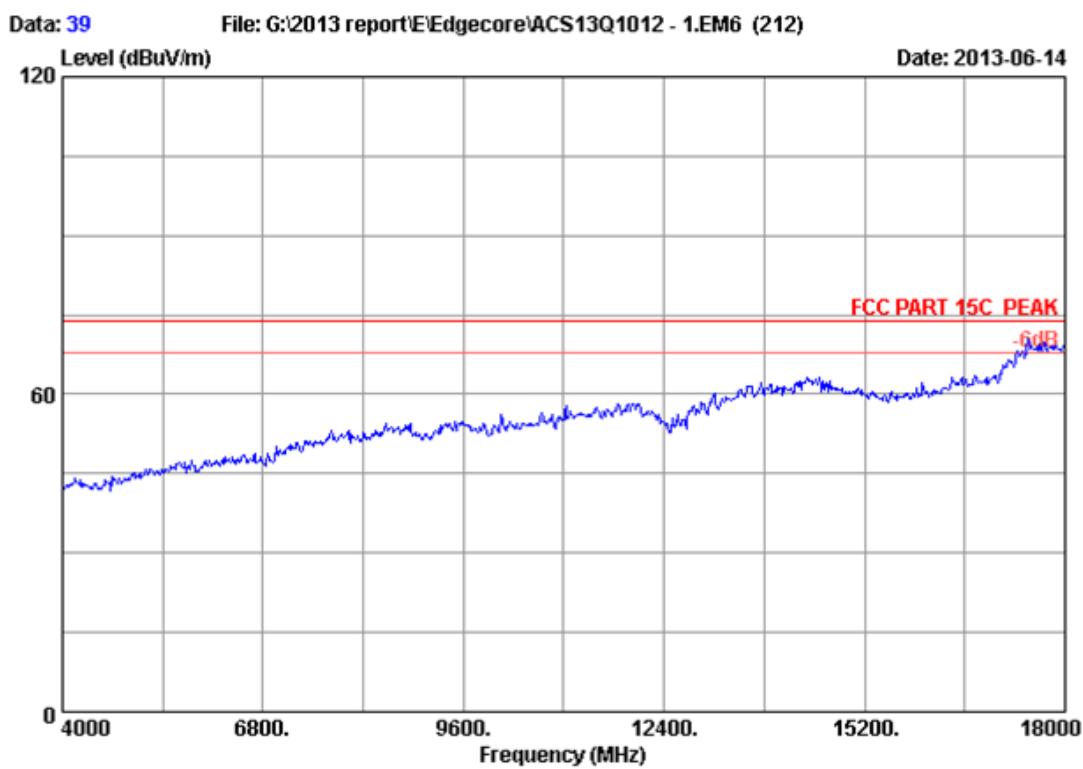


Site no. : 3m Chamber Data no. : 38
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH6 2437MHz Tx
M/N : SMCWPCI-N5
:

	Ant.	Cable	Amp.	Emission			
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin
(MHz)	(dB/m)	(dB)	(dB)	(dB _B V)	(dB _B V/m)	(dB _B V/m)	(dB)
1	2437.000	29.47	7.46	36.61	96.37	96.69	74.00 -22.69 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.

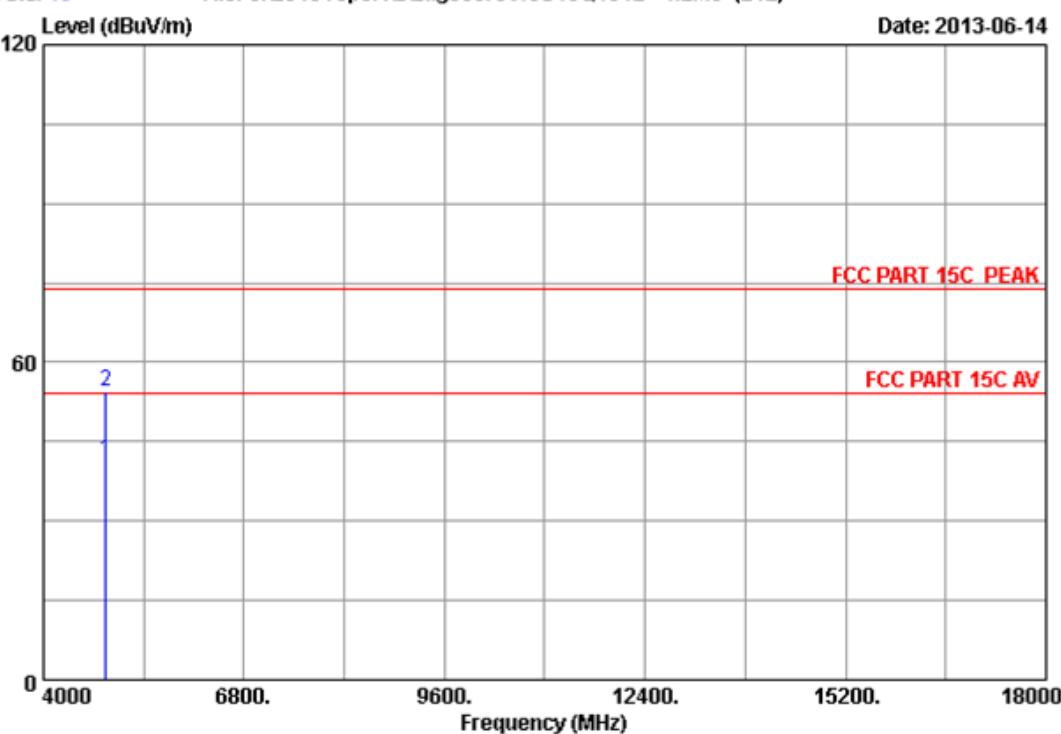


Site no. : 3m Chamber Data no. : 39
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH6 2437MHz Tx
M/N : SMCWPCI-N5
:

Data: 40

File: G:\2013 report\E\Edgecore\ACS13Q1012 - 1.EM6 (212)

Date: 2013-06-14

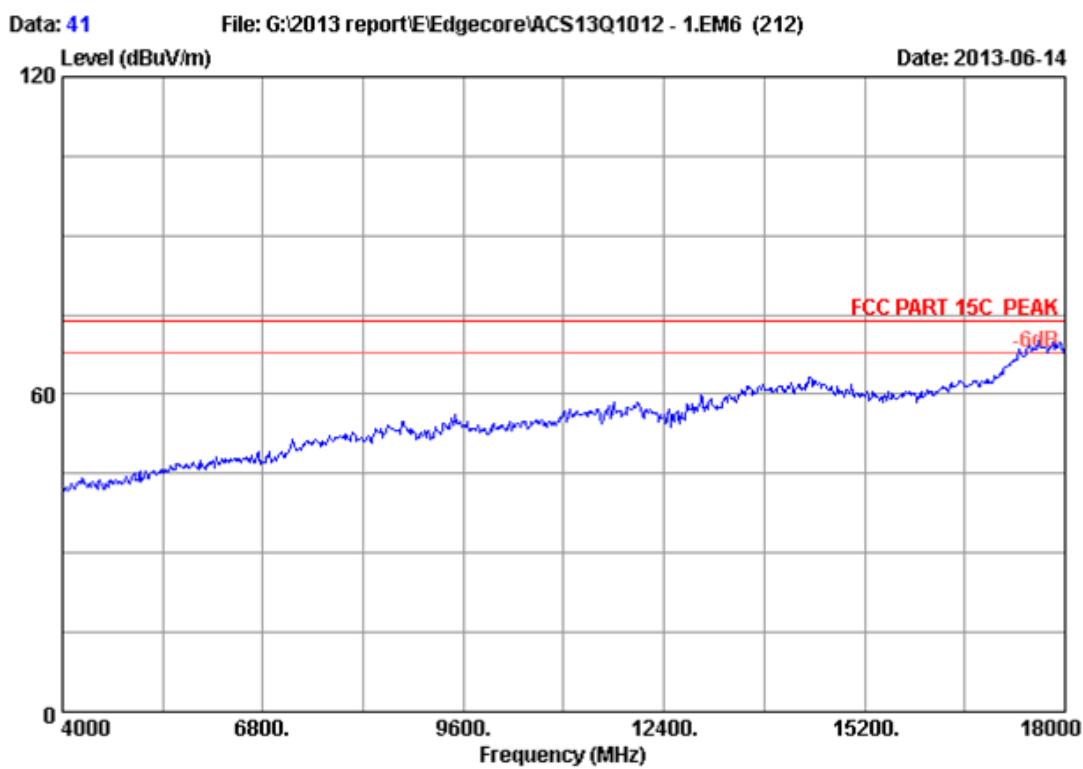


Site no. : 3m Chamber Data no. : 40
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH6 2437MHz Tx
M/N : SMCWPCI-N5
:

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dB _B V)	Level (dB _B V/m)	Limits (dB _B V/m)	Margin (dB)	Remark
1 4874.000	34.41	10.69	35.03	31.23	41.30	54.00	12.70	Average
2 4874.000	34.41	10.69	35.03	44.35	54.42	74.00	19.58	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.

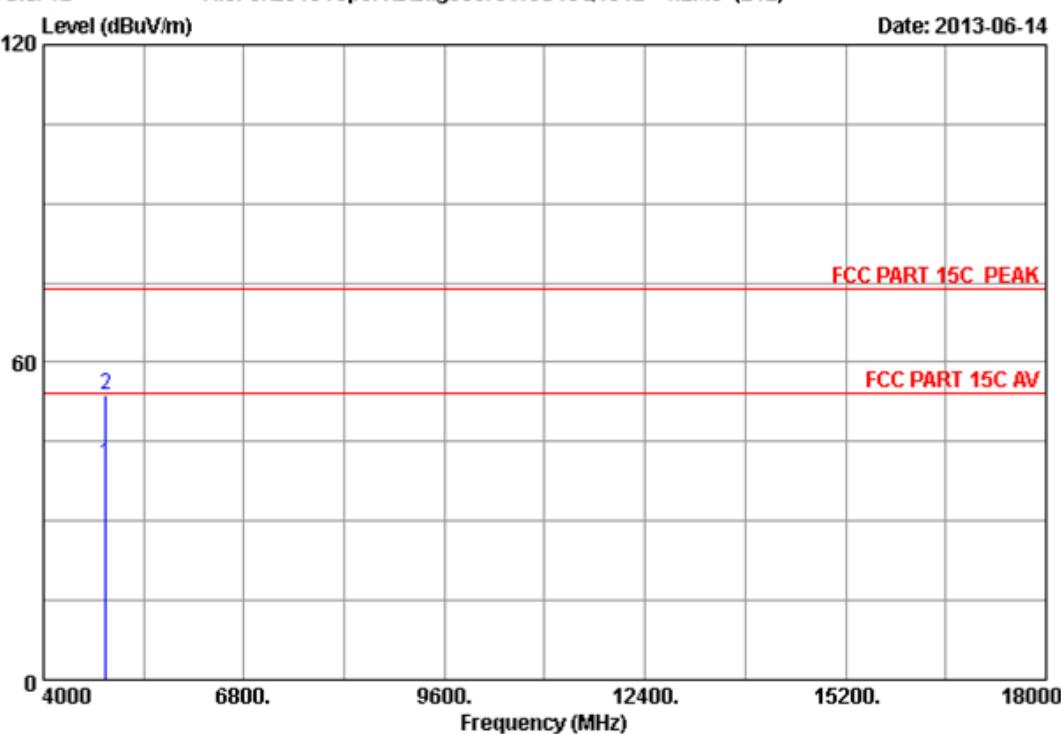


Site no. : 3m Chamber Data no. : 41
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH6 2437MHz Tx
M/N : SMCWPCI-N5
:

Data: 42

File: G:\2013 report\E\Edgecore\ACS13Q1012 - 1.EM6 (212)

Date: 2013-06-14

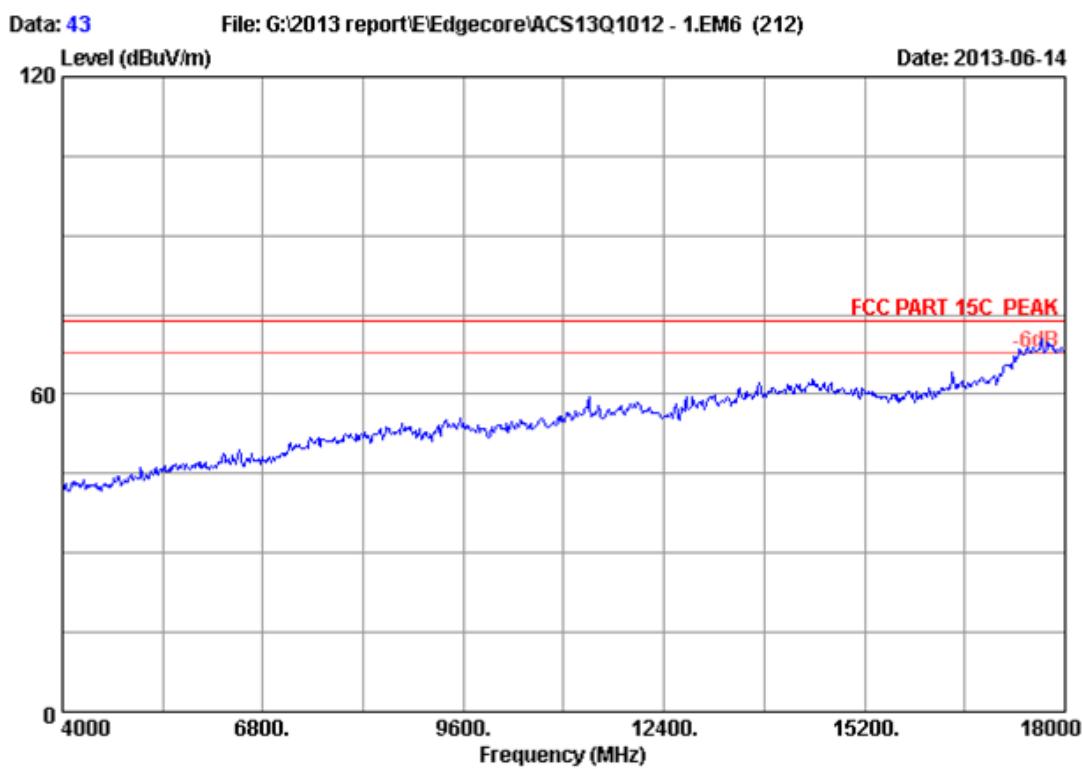


Site no. : 3m Chamber Data no. : 42
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH6 2437MHz Tx
M/N : SMCWPCI-N5
:

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dB _{uV})	Level (dB _{uV/m})	Limits (dB _{uV/m})	Margin (dB)	Remark
1 4874.000	34.41	10.69	35.03	30.78	40.85	54.00	13.15	Average
2 4874.000	34.41	10.69	35.03	43.87	53.94	74.00	20.06	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.

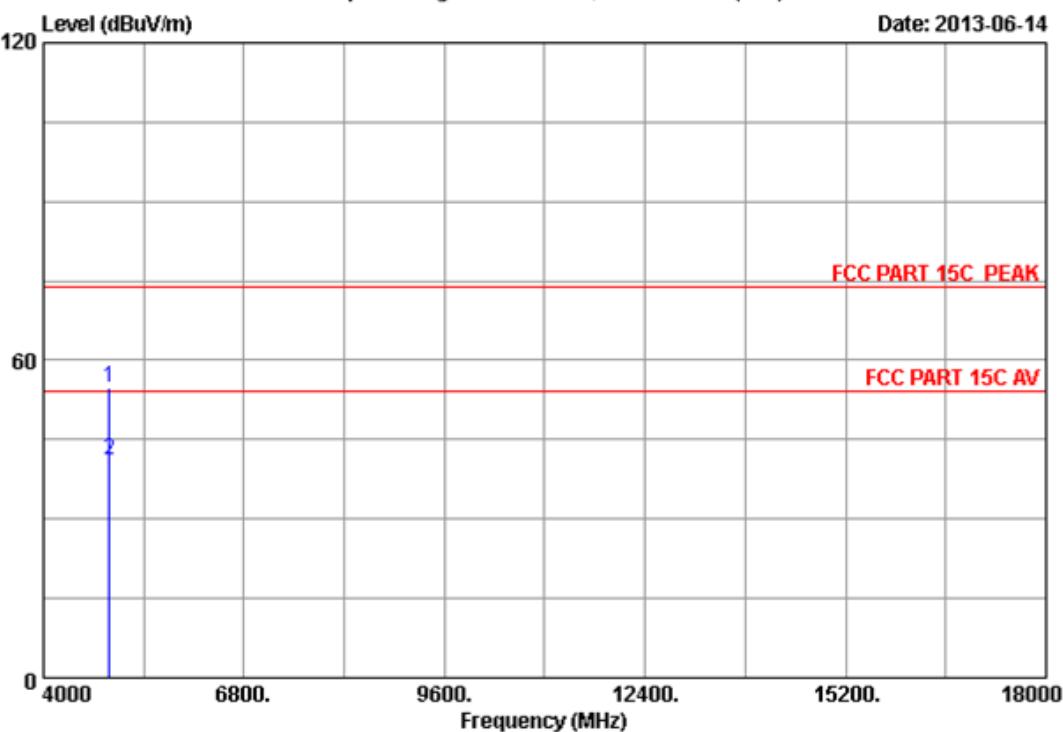


Site no. : 3m Chamber Data no. : 43
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz Tx
M/N : SMCWPCI-N5
:

Data: 44

File: G:\2013 report\E\Edgecore\ACS13Q1012 - 1.EM6 (212)

Date: 2013-06-14



Site no. : 3m Chamber Data no. : 44
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz Tx
M/N : SMCWPCI-N5
:

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 4924.000	34.49	10.76	34.98	44.65	54.92	74.00	19.08	Peak
2 4924.000	34.49	10.76	34.98	30.78	41.05	54.00	12.95	Average

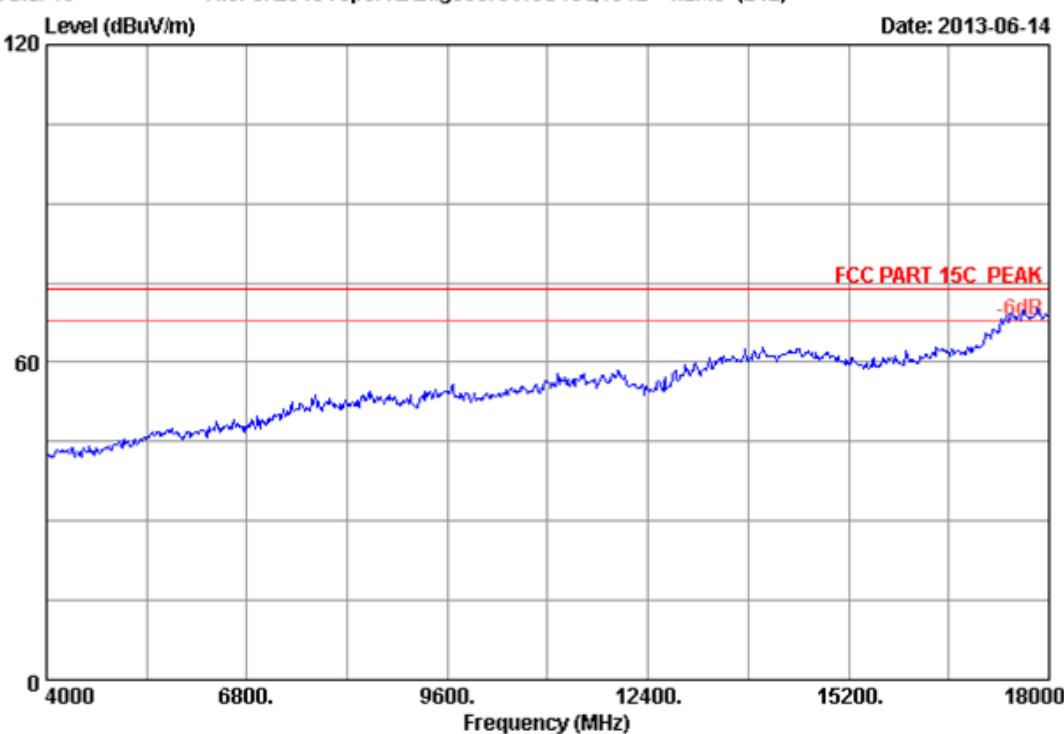
Remarks:

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

Data: 45

File: G:\2013 report\E\Edgecore\ACS13Q1012 - 1.EM6 (212)

Date: 2013-06-14

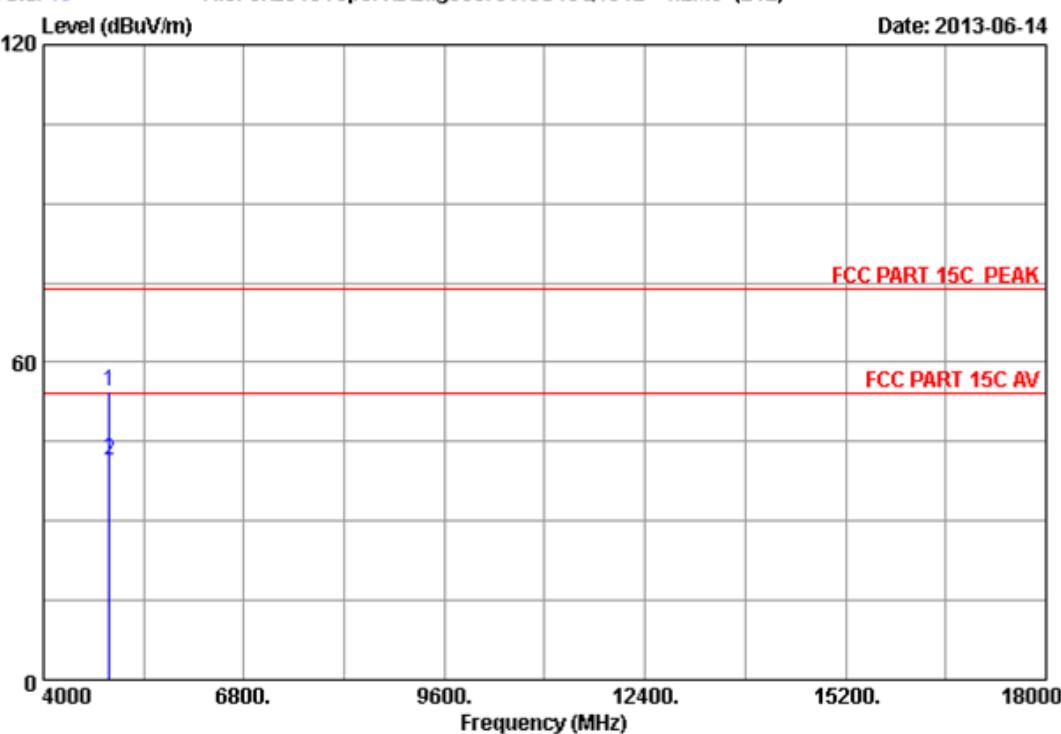


Site no. : 3m Chamber Data no. : 45
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz Tx
M/N : SMCWPCI-N5
:

Data: 46

File: G:\2013 report\E\Edgecore\ACS13Q1012 - 1.EM6 (212)

Date: 2013-06-14

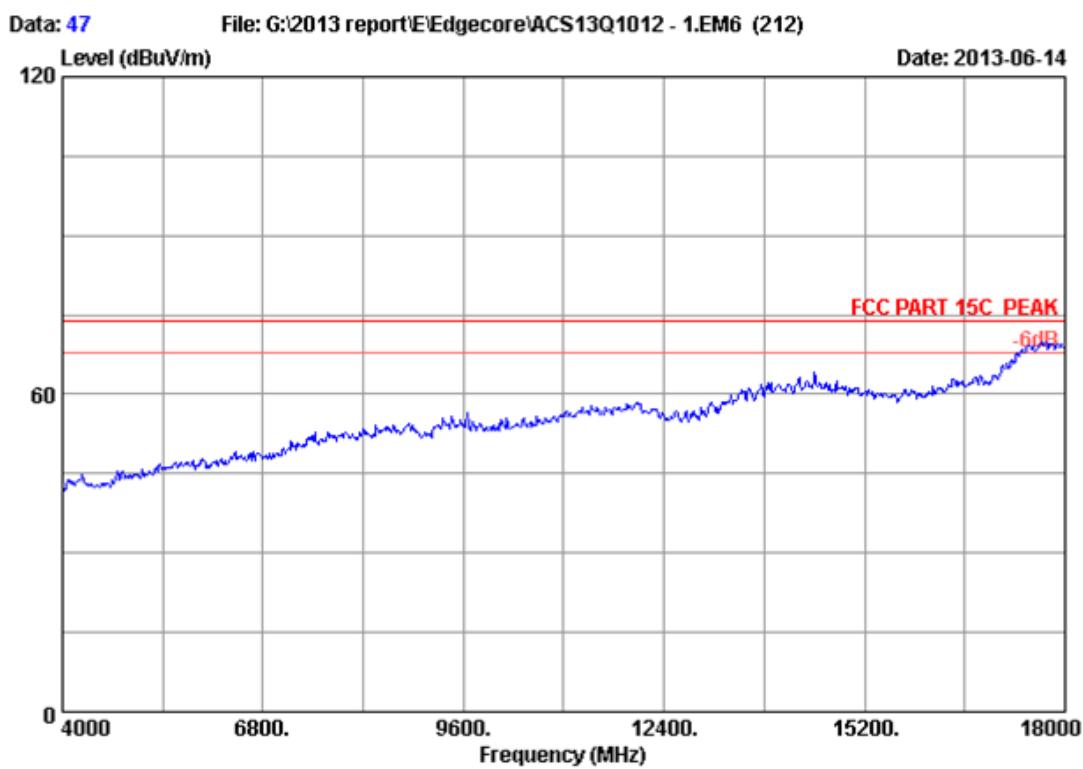


Site no. : 3m Chamber Data no. : 46
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz Tx
M/N : SMCWPCI-N5
:

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dB _{uV})	Level (dB _{uV/m})	Limits (dB _{uV/m})	Margin (dB)	Remark
1 4924.000	34.49	10.76	34.98	44.16	54.43	74.00	19.57	Peak
2 4924.000	34.49	10.76	34.98	31.02	41.29	54.00	12.71	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.

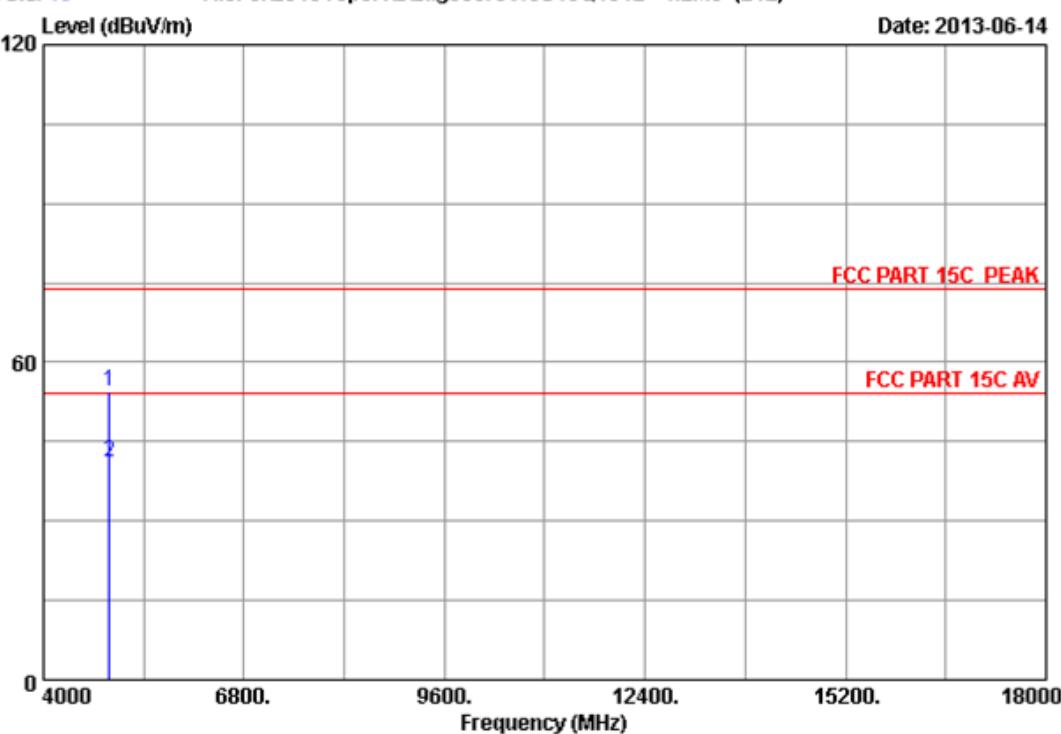


Site no. : 3m Chamber Data no. : 47
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH11 2462MHz Tx
M/N : SMCWPCI-N5
:

Data: 48

File: G:\2013 report\E\Edgecore\ACS13Q1012 - 1.EM6 (212)

Date: 2013-06-14



Site no. : 3m Chamber Data no. : 48
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH11 2462MHz Tx
M/N : SMCWPCI-N5
:

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dB _{uV})	Level (dB _{uV/m})	Limits (dB _{uV/m})	Margin (dB)	Remark
1 4924.000	34.49	10.76	34.98	44.26	54.53	74.00	19.47	Peak
2 4924.000	34.49	10.76	34.98	30.74	41.01	54.00	12.99	Average

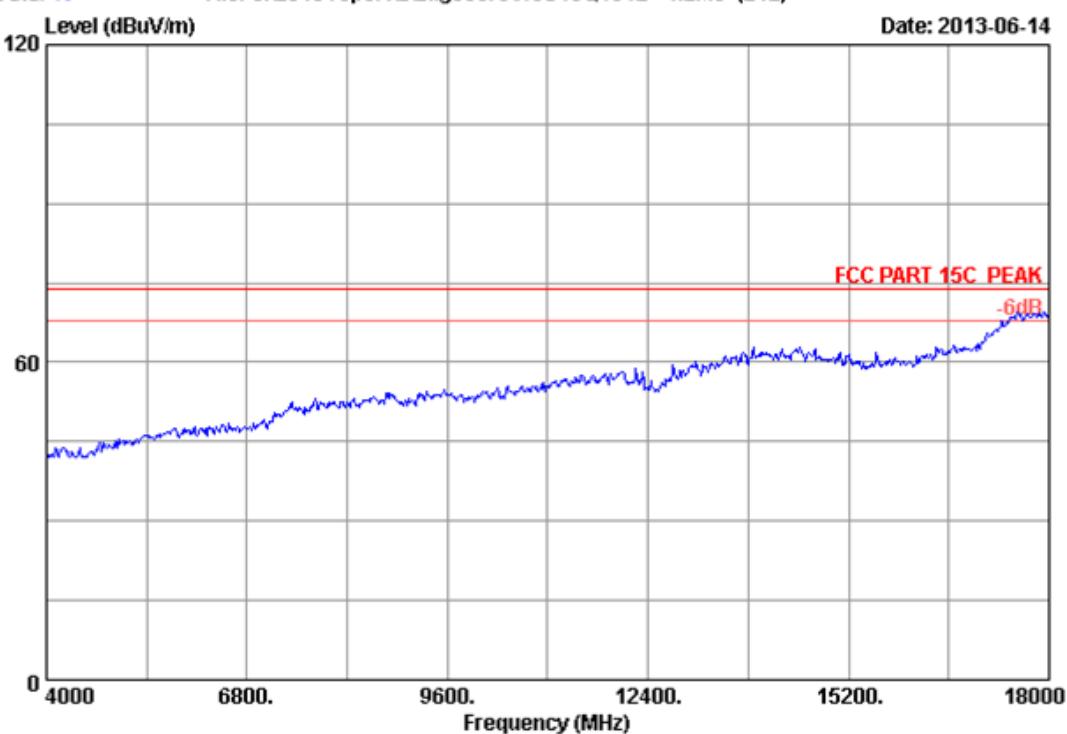
Remarks:

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

Data: 49

File: G:\2013 report\E\Edgecore\ACS13Q1012 - 1.EM6 (212)

Date: 2013-06-14

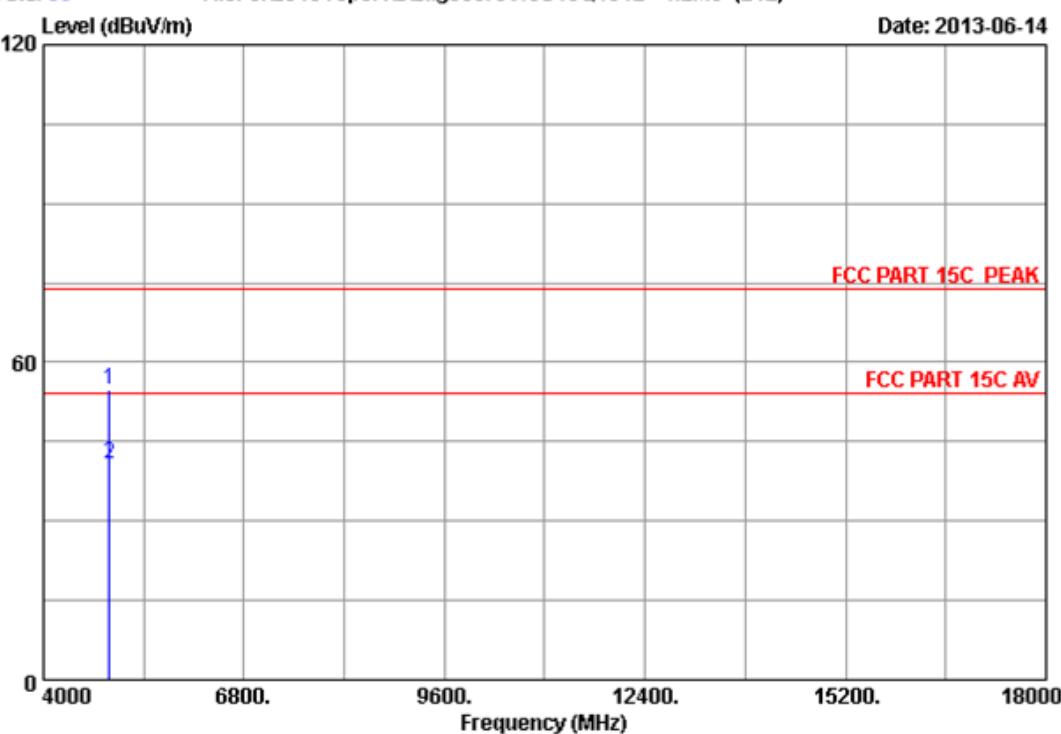


Site no. : 3m Chamber Data no. : 49
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH11 2462MHz Tx
M/N : SMCWPCI-N5
:

Data: 50

File: G:\2013 report\E\Edgecore\ACS13Q1012 - 1.EM6 (212)

Date: 2013-06-14

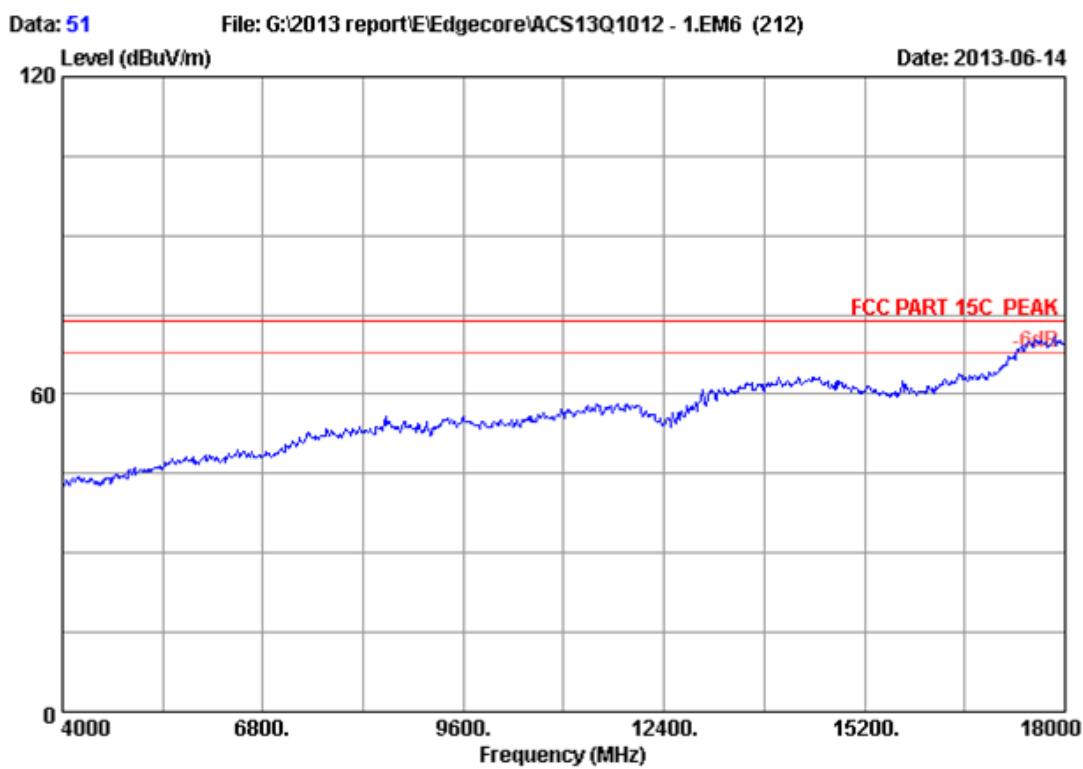


Site no. : 3m Chamber Data no. : 50
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH11 2462MHz Tx
M/N : SMCWPCI-N5
:

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dB _{uV})	Level (dB _{uV/m})	Limits (dB _{uV/m})	Margin (dB)	Remark
1 4924.000	34.49	10.76	34.98	44.38	54.65	74.00	19.35	Peak
2 4924.000	34.49	10.76	34.98	30.54	40.81	54.00	13.19	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.

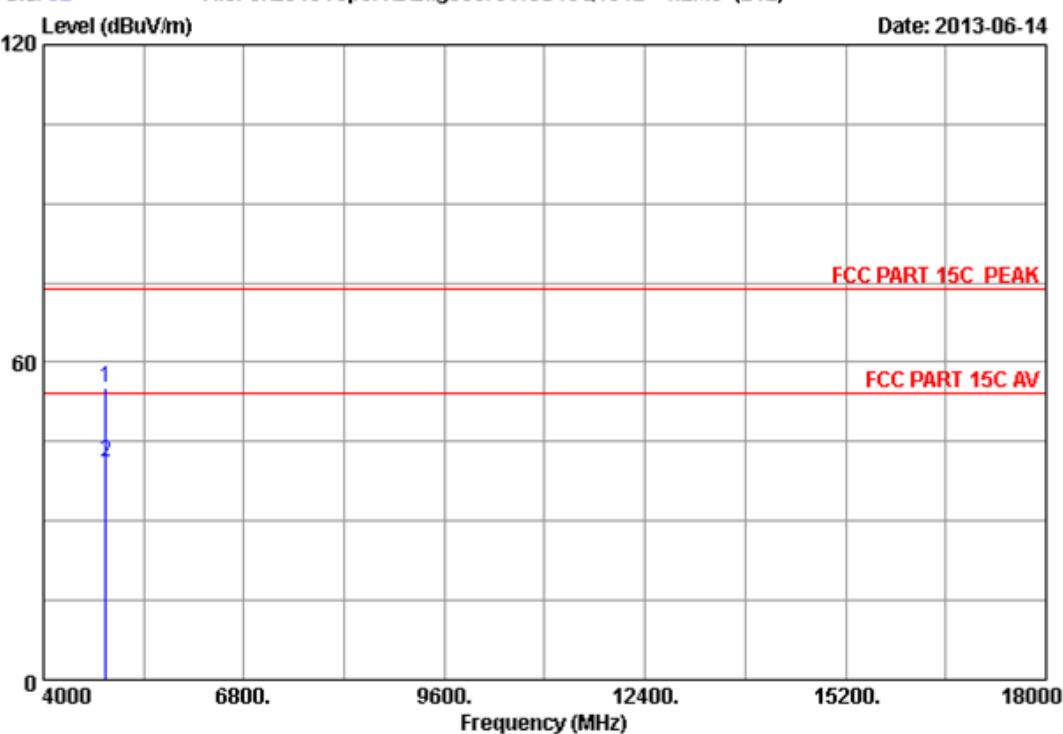


Site no. : 3m Chamber Data no. : 51
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH6 2437MHz Tx
M/N : SMCWPCI-N5
:

Data: 52

File: G:\2013 report\E\Edgecore\ACS13Q1012 - 1.EM6 (212)

Date: 2013-06-14

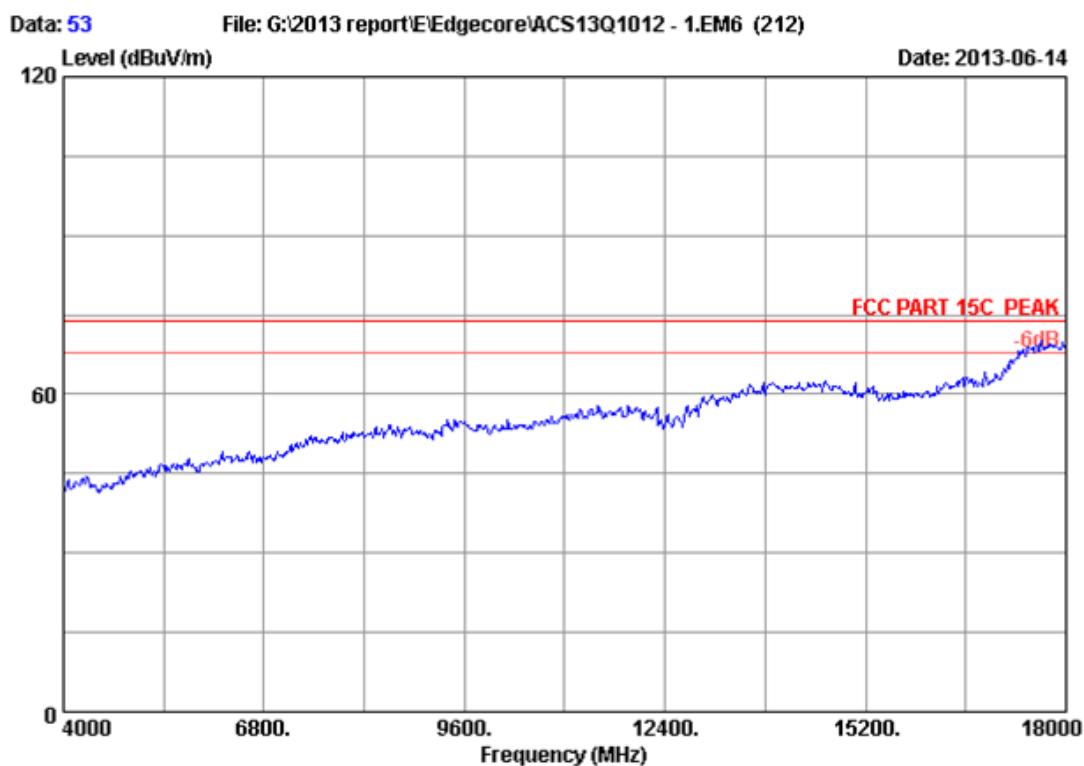


Site no. : 3m Chamber Data no. : 52
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH6 2437MHz Tx
M/N : SMCWPCI-N5
:

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 4874.000	34.41	10.69	35.03	45.12	55.19	74.00	18.81	Peak
2 4874.000	34.41	10.69	35.03	31.19	41.26	54.00	12.74	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.

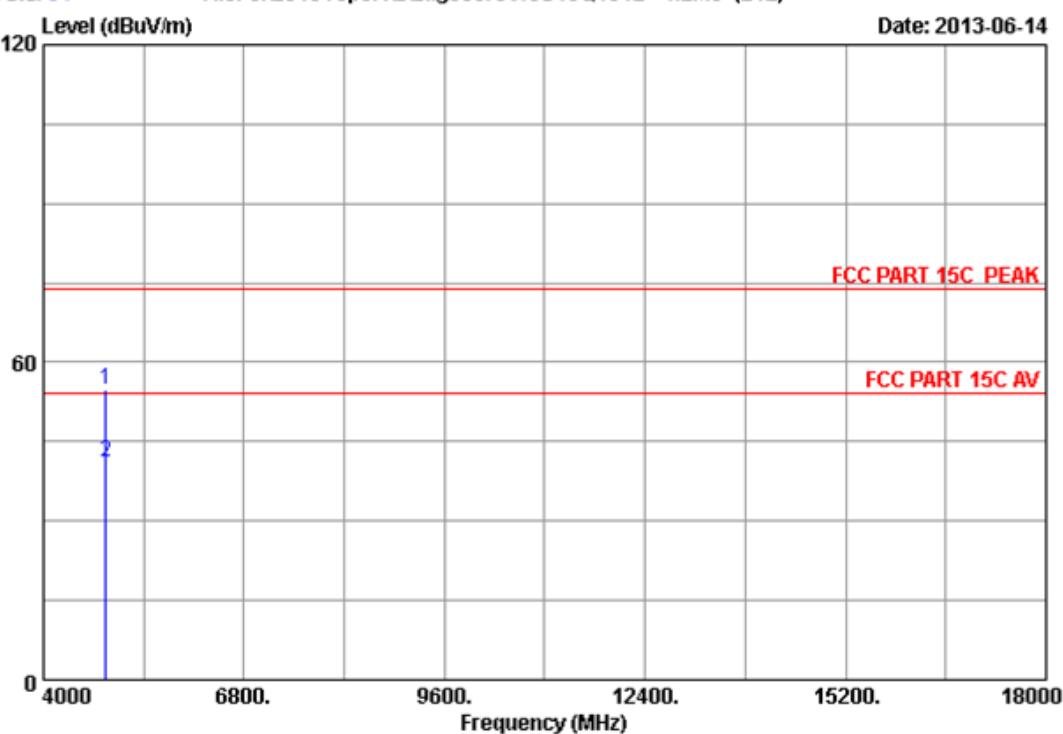


Site no. : 3m Chamber Data no. : 53
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH6 2437MHz Tx
M/N : SMCWPCI-N5
:

Data: 54

File: G:\2013 report\E\Edgecore\ACS13Q1012 - 1.EM6 (212)

Date: 2013-06-14

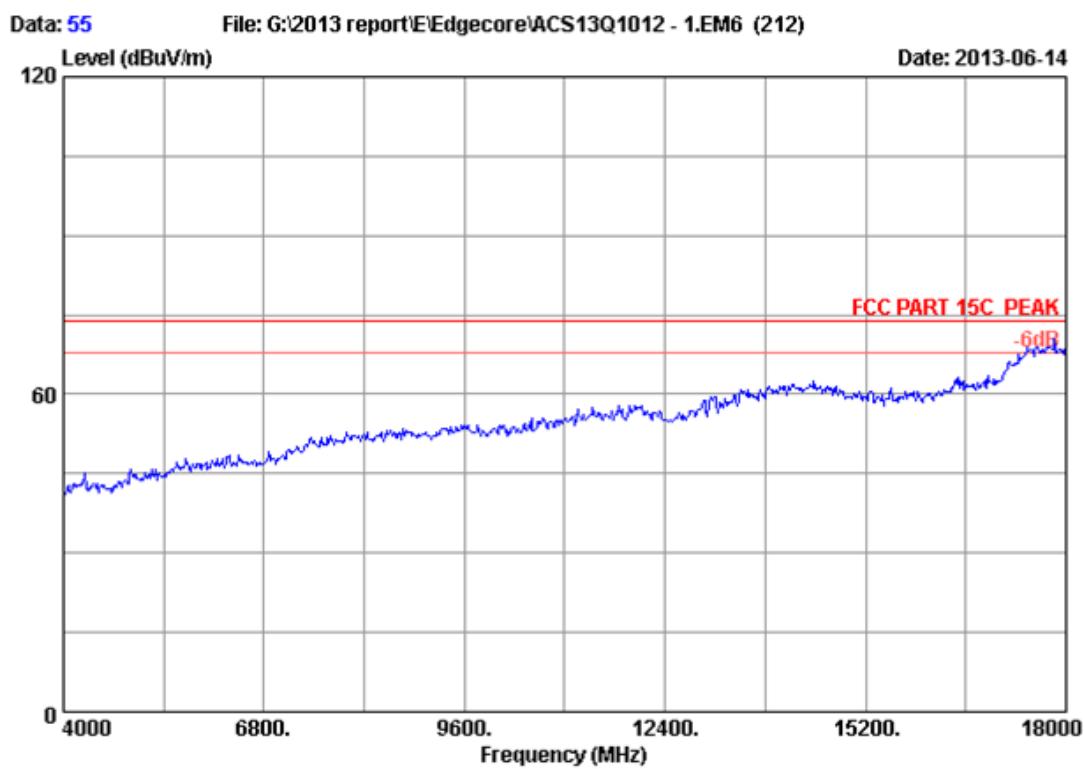


Site no. : 3m Chamber Data no. : 54
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH6 2437MHz Tx
M/N : SMCWPCI-N5
:

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dB _{uV})	Level (dB _{uV/m})	Limits (dB _{uV/m})	Margin (dB)	Remark
1 4874.000	34.41	10.69	35.03	44.89	54.96	74.00	19.04	Peak
2 4874.000	34.41	10.69	35.03	31.02	41.09	54.00	12.91	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.

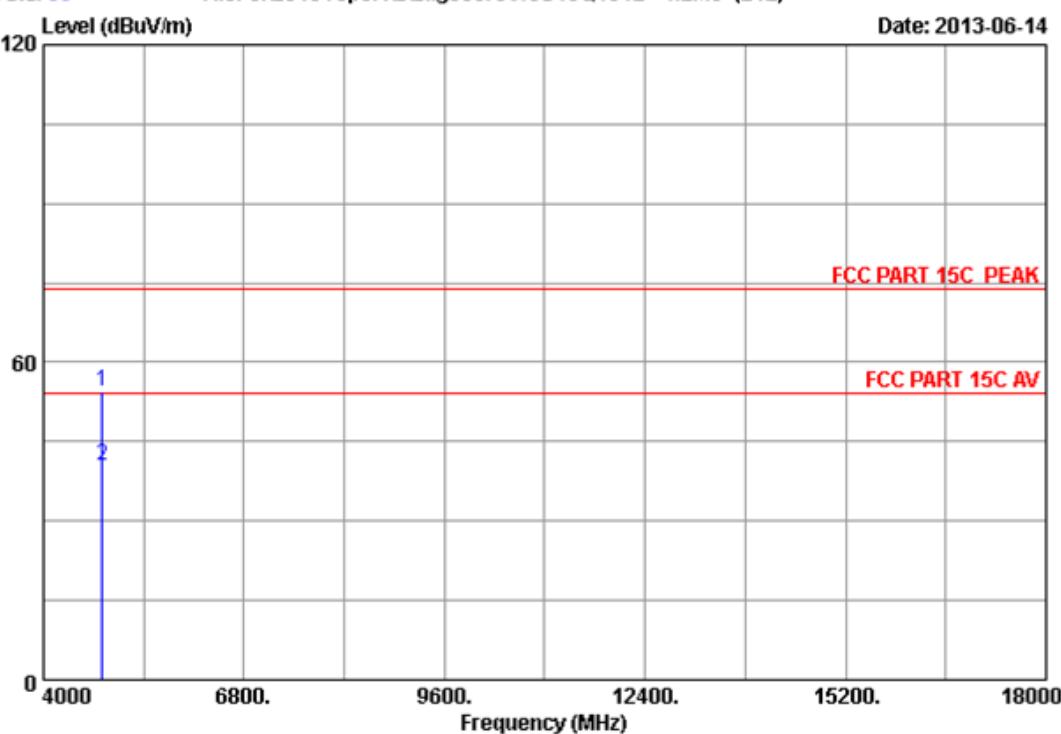


Site no. : 3m Chamber Data no. : 55
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH1 2412MHz Tx
M/N : SMCWPCI-N5
:

Data: 56

File: G:\2013 report\E\Edgecore\ACS13Q1012 - 1.EM6 (212)

Date: 2013-06-14

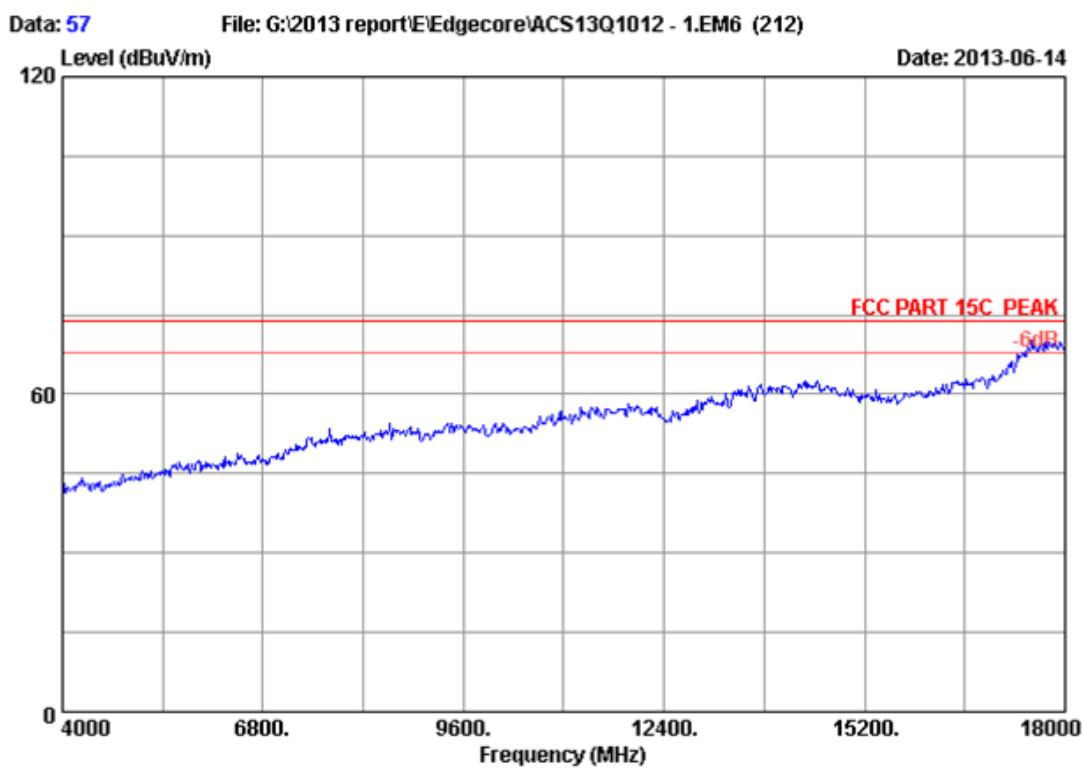


Site no. : 3m Chamber Data no. : 56
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH1 2412MHz Tx
M/N : SMCWPCI-N5
:

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 4824.000	34.32	10.64	35.08	44.70	54.58	74.00	19.42	Peak
2 4824.000	34.32	10.64	35.08	30.42	40.30	54.00	13.70	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.

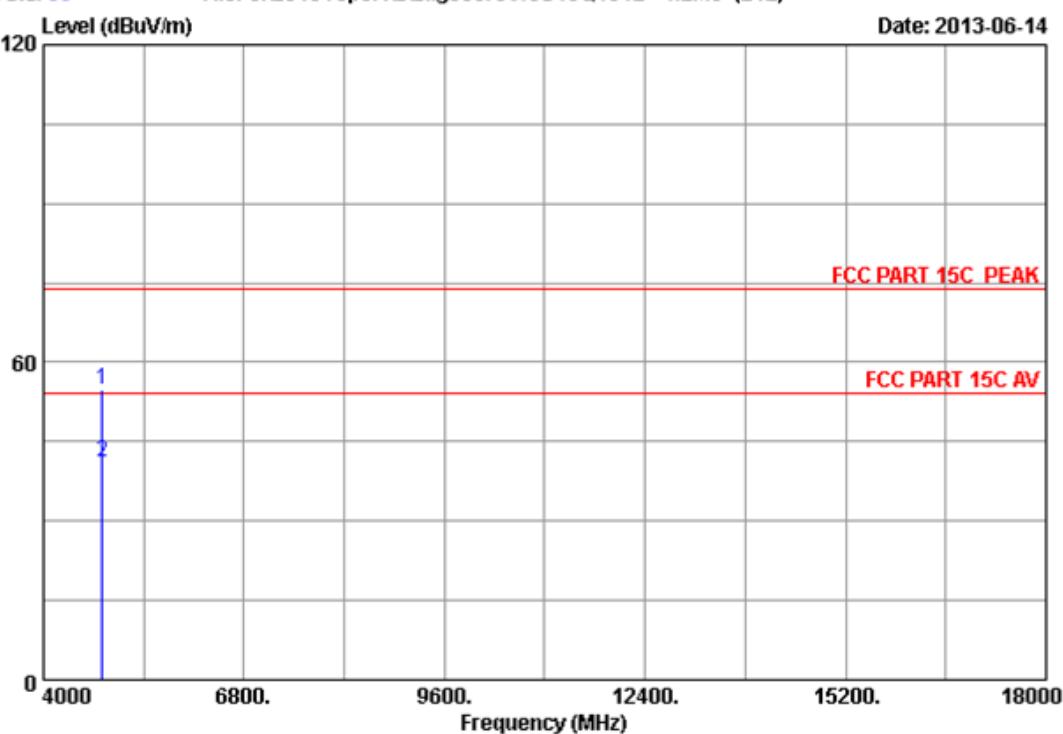


Site no. : 3m Chamber Data no. : 57
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH1 2412MHz Tx
M/N : SMCWPCI-N5
:

Data: 58

File: G:\2013 report\E\Edgecore\ACS13Q1012 - 1.EM6 (212)

Date: 2013-06-14

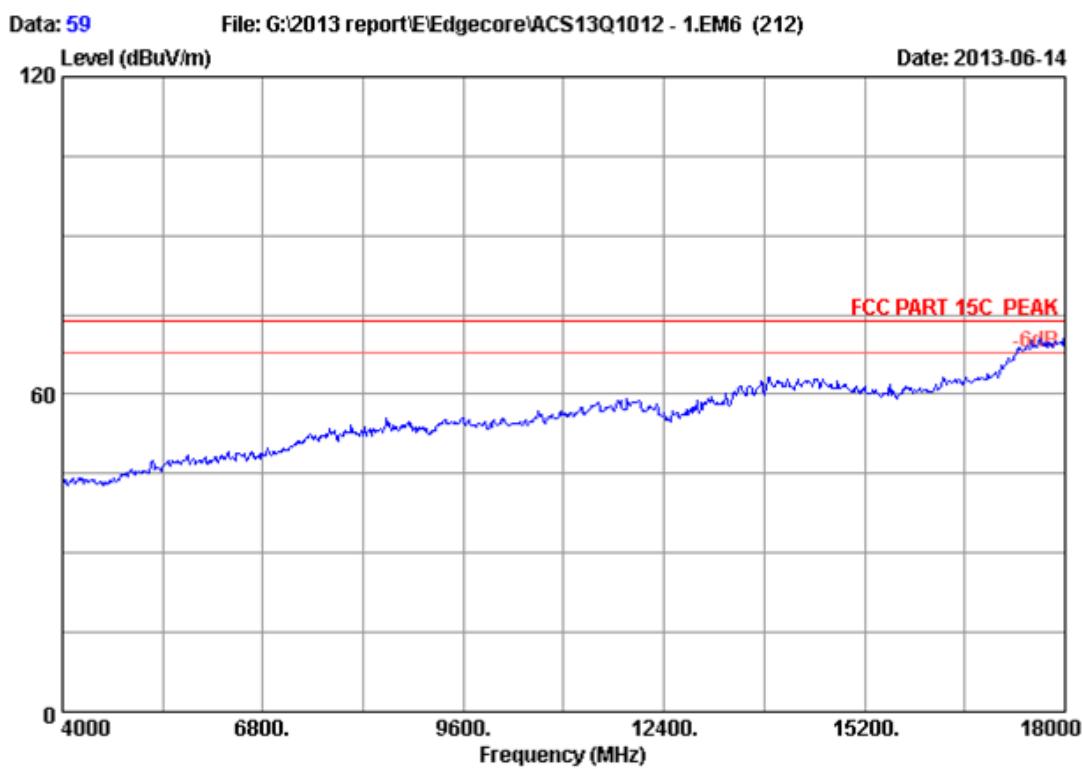


Site no. : 3m Chamber Data no. : 58
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH1 2412MHz Tx
M/N : SMCWPCI-N5
:

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 4824.000	34.32	10.64	35.08	45.10	54.98	74.00	19.02	Peak
2 4824.000	34.32	10.64	35.08	31.33	41.21	54.00	12.79	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.

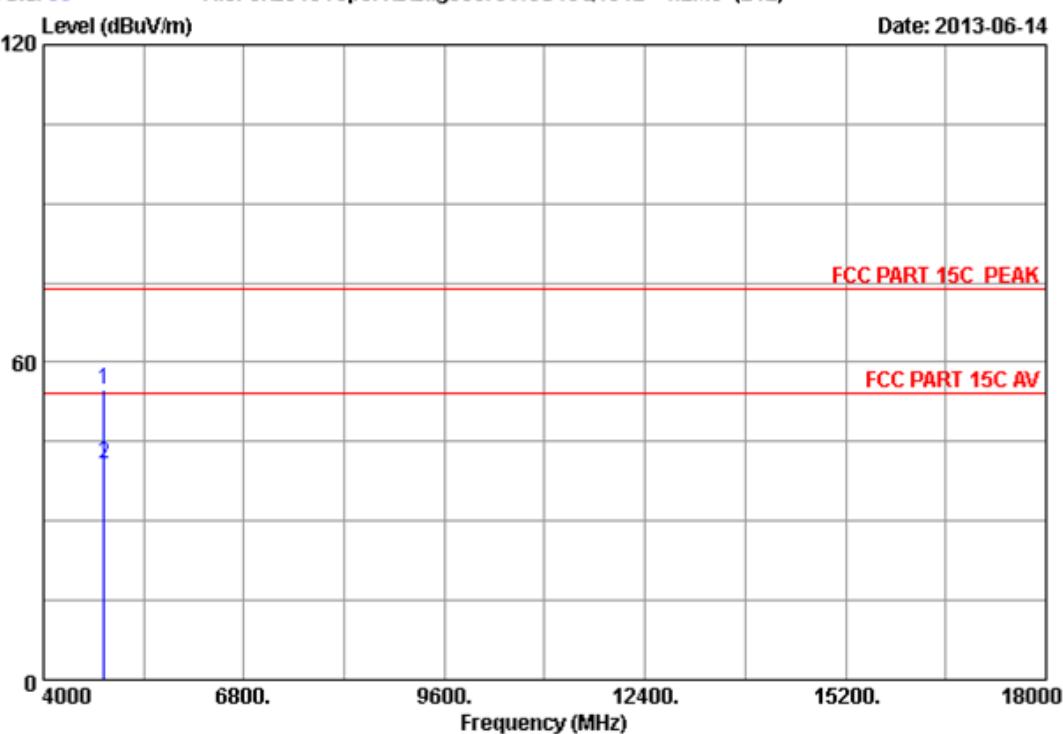


Site no. : 3m Chamber Data no. : 59
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH3 2422MHz Tx
M/N : SMCWPCI-N5
:

Data: 60

File: G:\2013 report\E\Edgecore\ACS13Q1012 - 1.EM6 (212)

Date: 2013-06-14

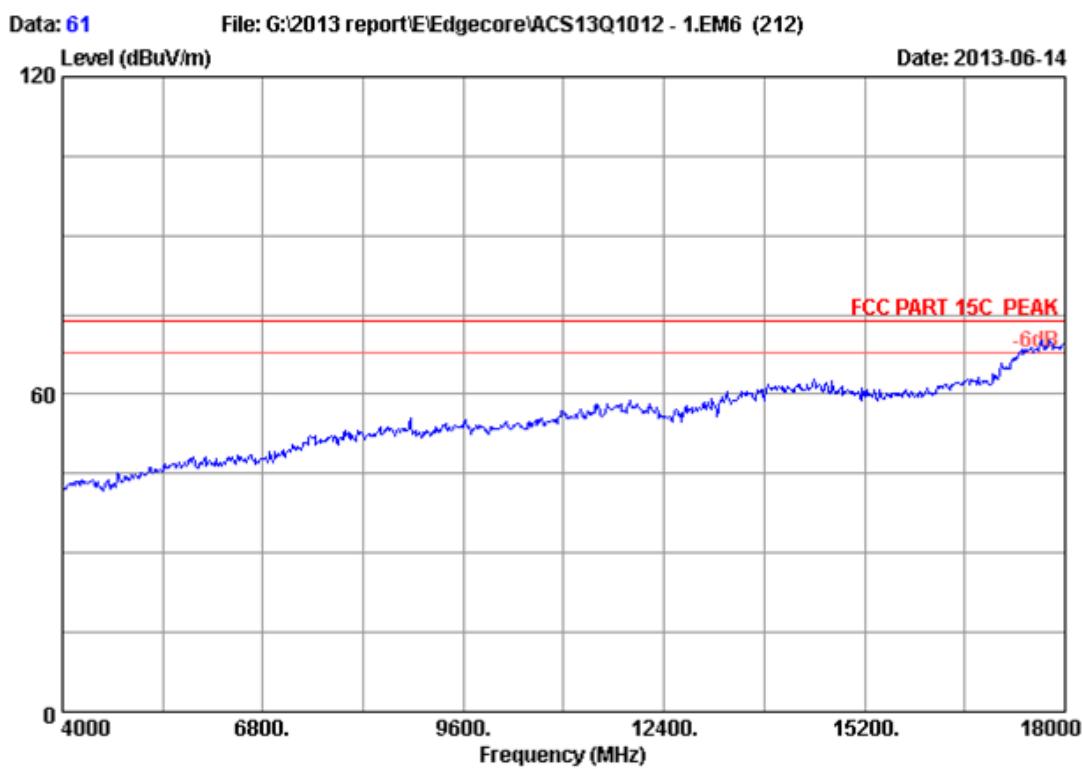


Site no. : 3m Chamber Data no. : 60
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH3 2422MHz Tx
M/N : SMCWPCI-N5
:

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dB _B V)	Level (dB _B V/m)	Limits (dB _B V/m)	Margin (dB)	Remark
1 4844.000	34.35	10.67	35.05	44.96	54.93	74.00	19.07	Peak
2 4844.000	34.35	10.67	35.05	30.65	40.62	54.00	13.38	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.

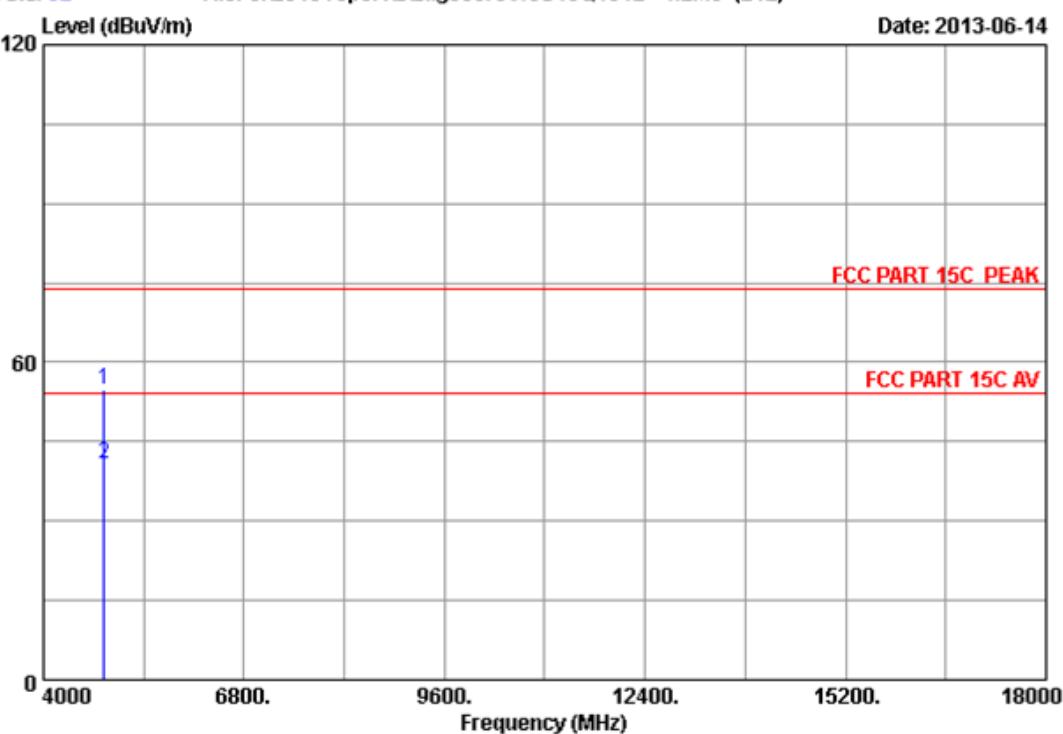


Site no. : 3m Chamber Data no. : 61
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH3 2422MHz Tx
M/N : SMCWPCI-N5
:

Data: 62

File: G:\2013 report\E\Edgecore\ACS13Q1012 - 1.EM6 (212)

Date: 2013-06-14

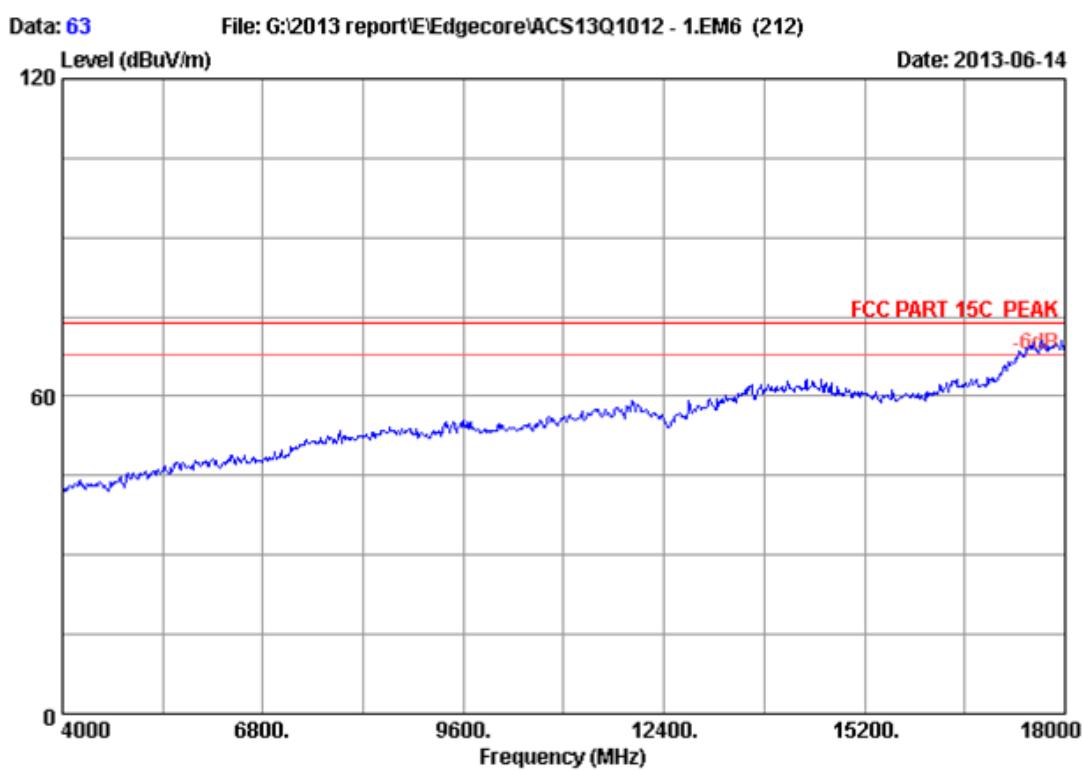


Site no. : 3m Chamber Data no. : 62
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH3 2422MHz Tx
M/N : SMCWPCI-N5
:

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dB _{uV})	Level (dB _{uV/m})	Limits (dB _{uV/m})	Margin (dB)	Remark
1 4844.000	34.35	10.67	35.05	44.72	54.69	74.00	19.31	Peak
2 4844.000	34.35	10.67	35.05	30.69	40.66	54.00	13.34	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.



Site no. : 3m Chamber Data no. : 63
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 2.4GHz 300Mbps Wireless PCI Adapter
Power supply : DC 3.3V From PC input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH6 2437MHz Tx
M/N : SMCWPCI-N5
: