



AUDIX Technology (Shenzhen) Co., Ltd.

FCC ID: YZKSMCWBR14SN5

FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

Edgecore Networks Corporation

150 Mbps 4-port Wireless Broadband Router

Model No.: SMCWBR14S-N5

FCC ID: YZKSMCWBR14SN5

Prepared for : Edgecore Networks Corporation
No.1 Creation Rd.3, Hsinchu Science Park, Hsinchu,
300077, Taiwan, R.O.C

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Report Number : ACS-F11140
Date of Test : Jun.27~Jul.08, 2011
Date of Report : Jul.12, 2011

FCC ID: YZKSMCWBR14SN5

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TEST REPORT CERTIFICATION

Applicant : Edgecore Networks Corporation
Manufacturer : Edgecore Networks Corporation
EUT Description : 150 Mbps 4-port Wireless Broadband Router
FCC ID : YZKSMCWBR14SN5
(A) MODEL NO. : SMCWBR14S-N5
(B) SERIAL NO. : N/A
(C) POWER SUPPLY : DC 9V
(D) TEST VOLTAGE : DC 9V From Adapter input AC 120V/60Hz

Tested for comply with:
FCC Rules and Regulations Part 15 Subpart C: 2008

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.27~Jul.08, 2011 Report of date: Jul.12, 2011

Prepared by : Sala Yang
Sala Yang /Senior Assistant

Reviewed by: Ken Lu
Audix Technology (Shenzhen) Limited Senior Assistant

EMC 部門 報告 專用 章

Stamp only for EMC Dept. Report

Signature: Ken Lu 7/14/11

Approved & Authorized Signer : _____
Ken Lu / 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	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 : 150 Mbps 4-port Wireless Broadband Router

Model Number : SMCWBR14S-N5

FCC ID : YZKSMCWBR14SN5

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 : One Dipole Antenna, One integrated PCB antenna, SIMO 1Tx2R, 5dBi Peak gain for dipole antenna
Note: The integrated PCB antenna only used for receive.

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

Adapter : Manufacture: VASATA M/N: P090060-2B1
Unshielded, Undetachable,1.6m

Date of Test : Jun.27~Jul.08, 2011

Date of Receipt : Jun.26, 2011

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	11	Low :CH1	2412
	11	Middle: CH6	2437
	11	High: CH11	2462
IEEE 802.11g	54	Low :CH1	2412
	54	Middle: CH6	2437
	54	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

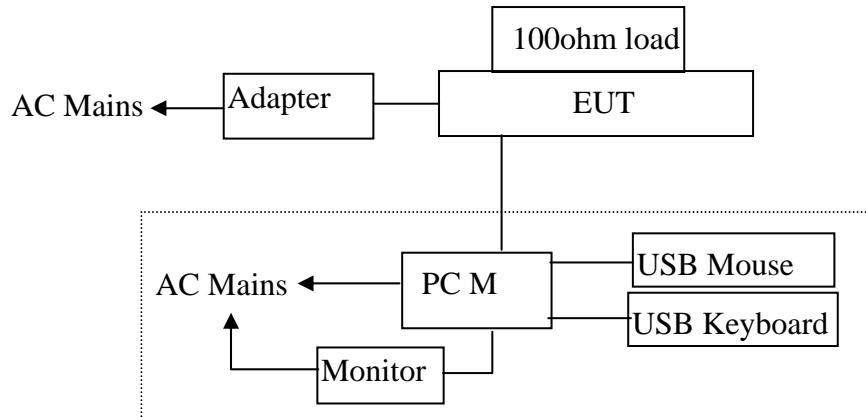
Note1: According exploratory test, EUT will have maximum PK output power in those data rate, so those data rate were used for all test.

2.3. Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number	Approved type
1	Personal Computer	Test PC M	DELL	Studio 540	224XK2X	<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)

2.4. Block diagram of connection between the EUT and simulators



PC M run test software to control EUT work in Tx mode

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: Mar.31, 2012

3m & 10m Anechoic Chamber

: Certificated by FCC, USA
Registration Number: 794232
Valid Date: Dec.30, 2012

EMC Lab.

: Certificated by Industry Canada
Registration Number: IC 5183A-1
Valid Date: Jul.02, 2011

: Accredited by DATech, German
Registration Number: DAT-P-091/99-01
Valid Date: Feb.01, 2014

Accredited by NVLAP, USA
NVLAP Code: 200372-0
Valid Date: Mar.31, 2012

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

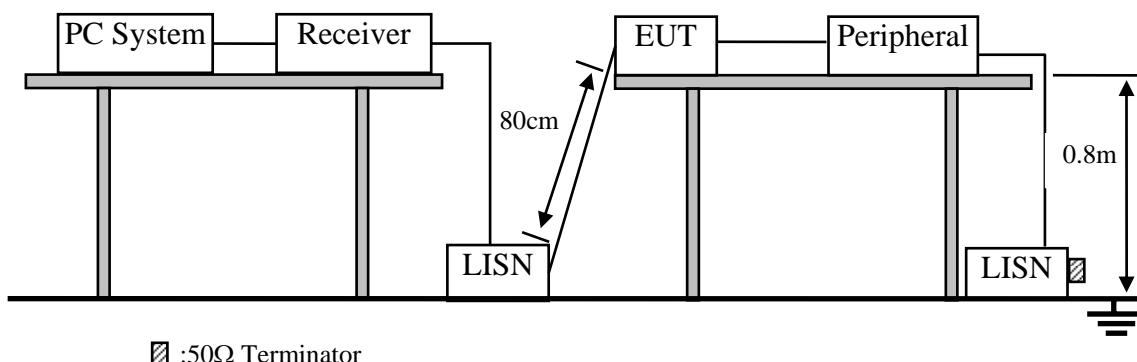
Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	3.2 dB (150KHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	3.6 dB(30~200MHz, Polarize: H)
	3.7 dB(30~200MHz, Polarize: V)
	4.0 dB(200M~1GHz, Polarize: H)
	3.7 dB(200M~1GHz, Polarize: V)
Uncertainty for Radiation Emission test in 3m chamber (1GHz-18GHz)	3.1dB (Distance: 3m Polarize: V)
	3.7 dB (Distance: 3m Polarize: H)
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	7×10^{-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	Nov.05, 10	1 Year
2.	L.I.S.N.#1	Rohde & Schwarz	ESH2-Z5	834066/011	Nov.05, 10	1 Year
3.	L.I.S.N.#3	Kyoritsu	KNW-242C	8-1920-1	May 08, 11	1 Year
4.	Terminator	Hubersuhner	50Ω	No. 1	May 08, 11	1 Year
5.	RF Cable	Fujikura	3D-2W	LISN Cable 1#	May 08, 11	1 Year
6.	Coaxial Switch	Anritsu	MP59B	M55367	May 08, 11	1 Year
7.	Passive Probe	Rohde & Schwarz	ESH2-Z3	299.7810.52	May 08, 11	1 Year
8.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100341	May 08, 11	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.

3.4.1.150 Mbps 4-port Wireless Broadband Router (EUT)

Model Number : SMCWBR14S-N5

Serial Number : N/A

3.4.2.Support Equipment : As Tested Supporting System Details, in Section 2.3.

3.5.Operating Condition of EUT

3.5.1.Setup the EUT and simulator as shown as Section 2.4.

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 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.

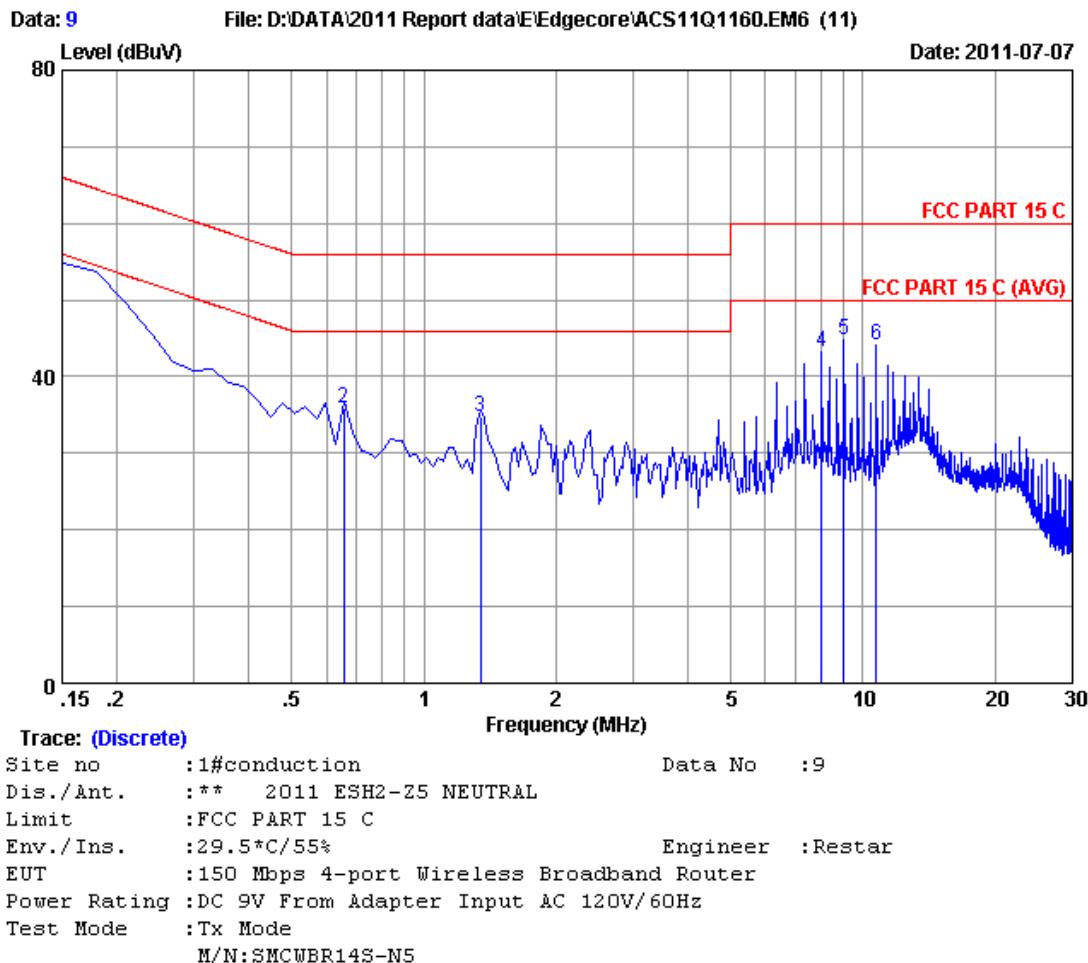
The frequency range from 150kHz to 30MHz is checked.

3.7.Power Line Conducted Emission Test Results

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

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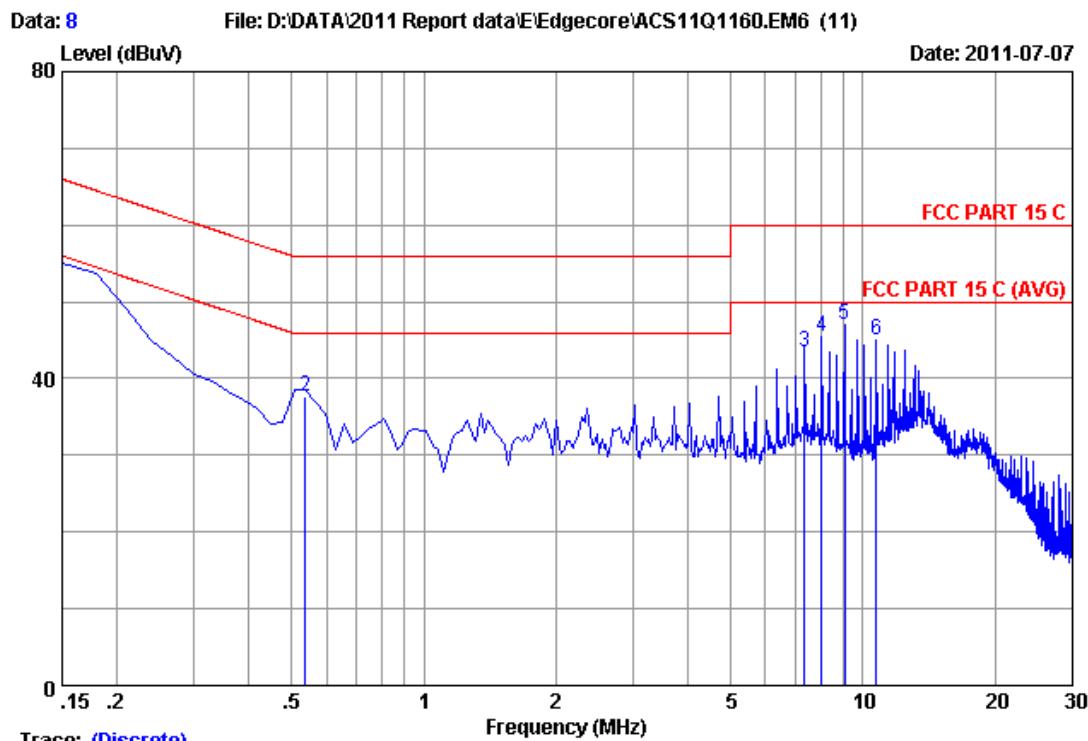


No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Emission				Remark
				Reading (dBuV)	Level (dBuV)	Limits (dBuV)	Margin (dB)	
<hr/>								
1	0.15000	0.21	9.88	43.75	53.84	66.00	12.16	QP
2	0.65745	0.23	9.89	25.70	35.82	56.00	20.18	QP
3	1.344	0.25	9.89	24.58	34.72	56.00	21.28	QP
4	8.060	0.41	9.98	32.88	43.27	60.00	16.73	QP
5	9.045	0.43	9.99	34.31	44.73	60.00	15.27	QP
6	10.717	0.47	9.99	33.65	44.11	60.00	15.89	QP
<hr/>								

Remarks: 1. Emission Level=LISN Factor+Cable Loss (Include 10dB pulse limit)
+Reading.
2. If the average limit is met when using a quasi-peak detector,
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

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Site no :1#conduction Data No :8
 Dis./Ant. :** 2011 ESH2-Z5 NEUTRAL
 Limit :FCC PART 15 C
 Env./Ins. :29.5*C/55% Engineer :Restar
 EUT :150 Mbps 4-port Wireless Broadband Router
 Power Rating :DC 9V From Adapter Input AC 120V/60Hz
 Test Mode :Tx Mode
 M/N:SMCWBR14S-N5

No	Freq (MHz)	LISN	Cable	Emission				Remark
		Factor (dB)	Loss (dB)	Reading (dBuV)	Level (dBuV)	Limits (dBuV)	Margin (dB)	
<hr/>								
1	0.15000	0.21	9.88	43.92	54.01	66.00	11.99	QP
2	0.53805	0.22	9.88	27.54	37.64	56.00	18.36	QP
3	7.374	0.40	9.97	33.03	43.40	60.00	16.60	QP
4	8.060	0.41	9.98	35.00	45.39	60.00	14.61	QP
5	9.075	0.43	9.99	36.67	47.09	60.00	12.91	QP
6	10.747	0.47	9.99	34.55	45.01	60.00	14.99	QP
<hr/>								

Remarks: 1. Emission Level=LISN Factor+Cable Loss (Include 10dB pulse limit)
 +Reading.
 2. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

4. RADIATED EMISSION TEST

4.1. Test Equipment

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

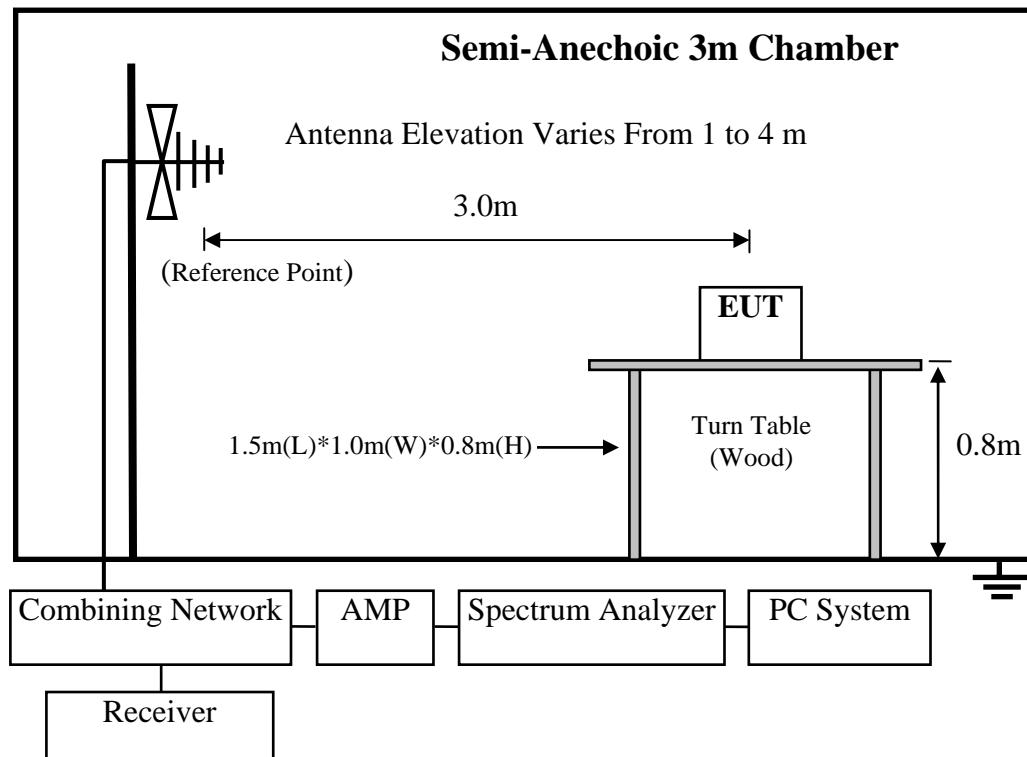
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	3#Chamber	AUDIX	N/A	N/A	Dec.06,10	1 Year
2	EMI Spectrum	Agilent	E4407B	MY41440292	May.08, 11	1 Year
3	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May.08, 11	1 Year
4	Amplifier	HP	8447D	2648A04738	May.08, 11	1 Year
5	Bilog Antenna	Schaffner	CBL6111C	2598	Oct. 26, 10	1 Year
6	RF Cable	MIYAZAKI	8D-FB	3# Chamber No.1	May.08, 11	1 Year
7	Coaxial Switch	Anritsu	MP59B	M73989	May.08, 11	1 Year

4.1.2. For frequency range 1GHz~6GHz (At Anechoic Chamber)

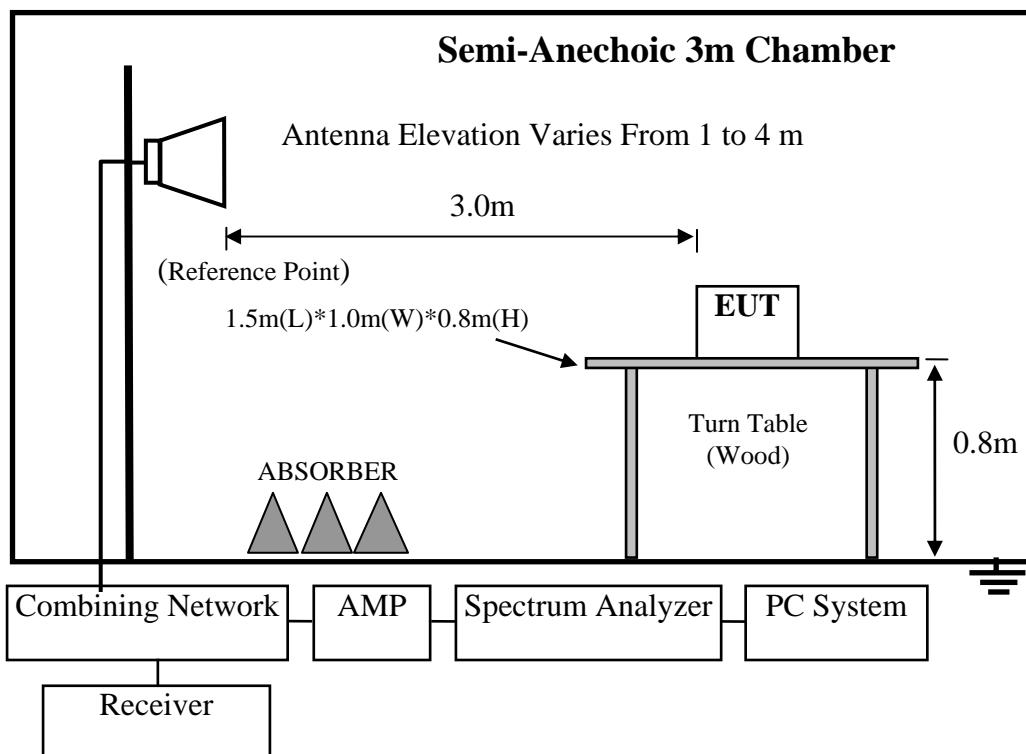
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4407B	MY41440292	May.08, 11	1 Year
2	Horn Antenna	EMCO	3115	9607-4877	May.25, 11	1.5 Year
3	Amplifier	Agilent	8449B	3008A00863	May.08, 11	1 Year
4	RF Cable	Hubersuhner	SUCOFLEX102	28622/2	May.08, 11	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX102	29091/2	May.08, 11	1 Year

4.2. Block Diagram of Test Setup

For frequency range 30MHz-1000MHz



For frequency range 1GHz-25GHz



4.3.Radiated Emission Limit

4.3.1.15.209 limits

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		µV/m	dB(µV)/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 dB(µV)/m (Peak) 54.0 dB(µV)/m (Average)	

Remark : (1) Emission level $\text{dB}\mu\text{V} = 20 \log \text{Emission level } \mu\text{V}/\text{m}$

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

4.3.2.15.205 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.

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.

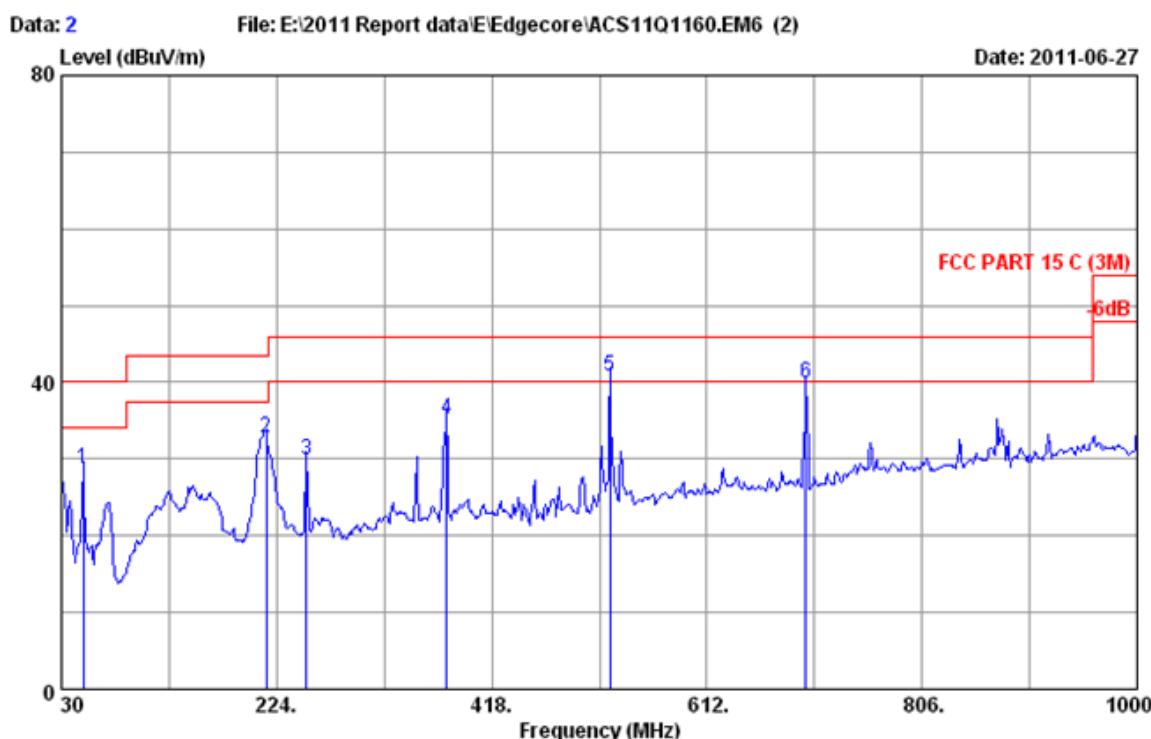
All the emissions from 30MHz to 25 GHz were comply with 15.209 limits.

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

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Frequency: 30MHz~1GHz



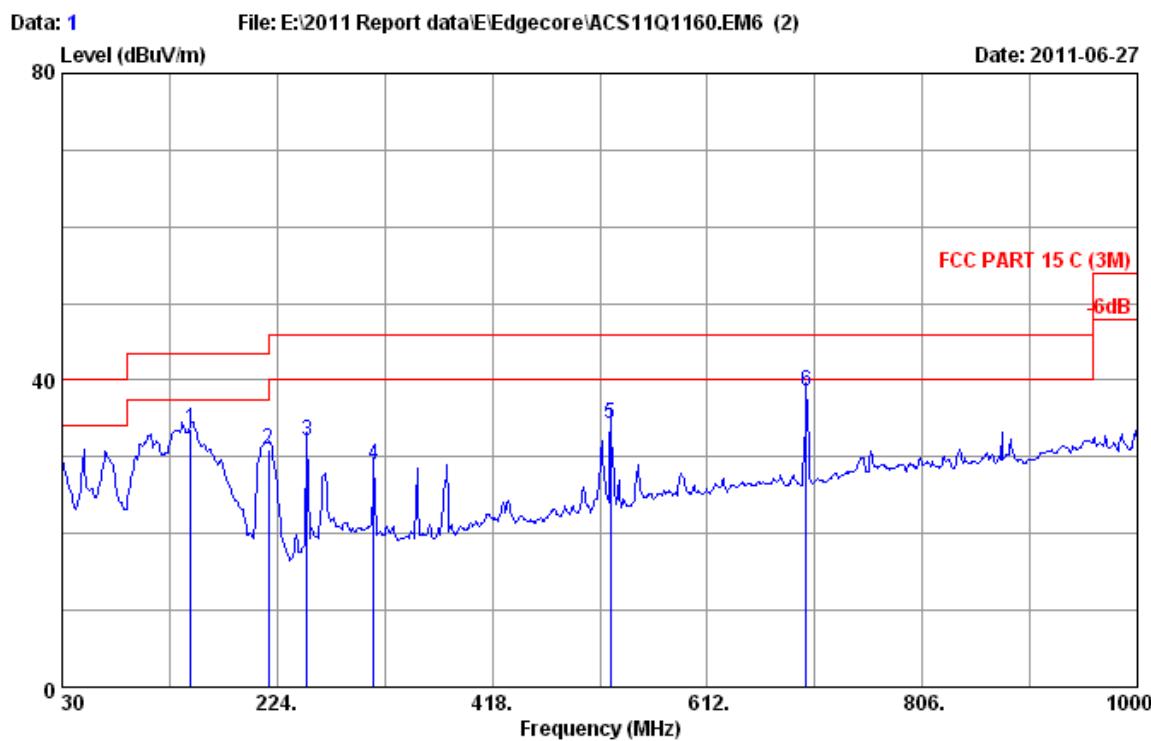
Site no. : 3m Chamber Data no. : 2
Dis. / Ant. : 3m 2010 CBL6111C 2598 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 24°C/56% Engineer : Leo_Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power rating : DC 9V From Adapter input AC 120V/60Hz
Test Mode : Tx Mode
SMCWBR14S-N5

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission			
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	49.400	9.72	0.82	18.14	28.68	40.00	11.32 QP
2	214.300	10.02	1.99	20.78	32.79	43.50	10.71 QP
3	251.160	12.90	2.43	14.64	29.97	46.00	16.03 QP
4	377.260	15.64	3.25	16.40	35.29	46.00	10.71 QP
5	524.700	18.35	4.12	18.40	40.87	46.00	5.13 QP
6	701.240	20.79	5.01	14.00	39.80	46.00	6.20 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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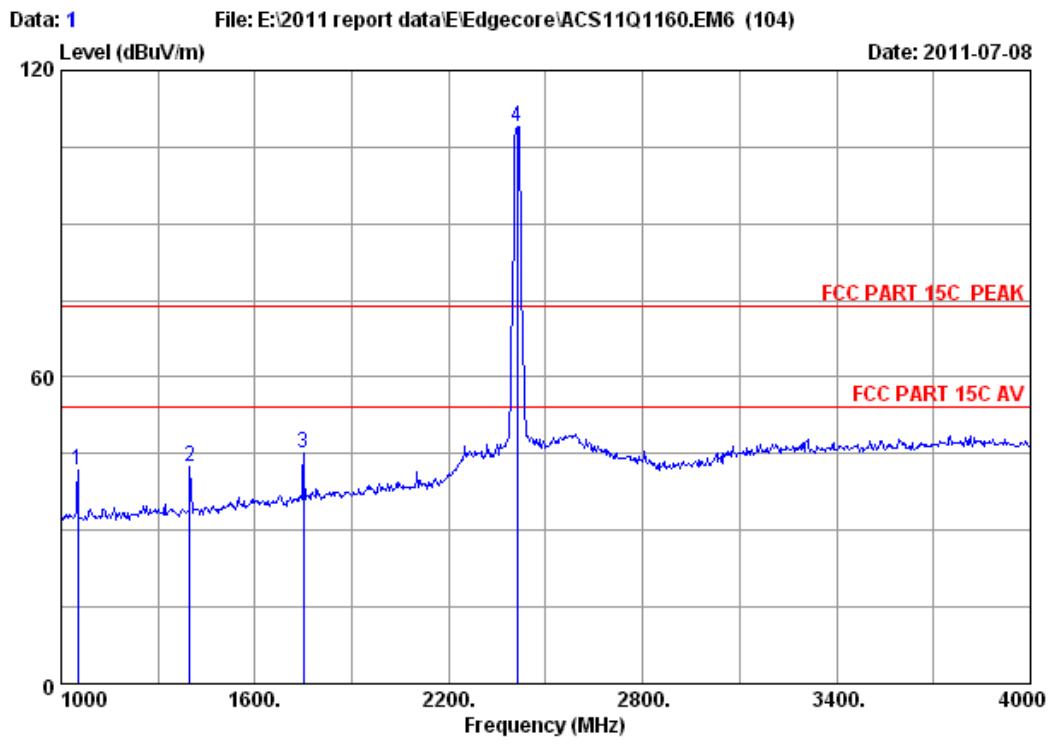


Site no. : 3m Chamber Data no. : 1
Dis. / Ant. : 3m 2010 CBL6111C 2598 Ant. pol. : VERTICAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 24°C/56% Engineer : Leo_Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power rating : DC 9V From Adapter input AC 120V/60Hz
Test Mode : Tx Mode
SMCWBR14S-N5

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission				Remark
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	146.400	11.84	1.47	20.45	33.76	43.50	9.74	QP
2	216.240	10.04	2.02	18.94	31.00	46.00	15.00	QP
3	251.160	12.90	2.43	16.80	32.13	46.00	13.87	QP
4	311.300	14.02	3.04	11.91	28.97	46.00	17.03	QP
5	524.700	18.35	4.12	11.78	34.25	46.00	11.75	QP
6	701.240	20.79	5.01	12.86	38.66	46.00	7.34	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. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11b CH1 2412MHz Tx
M/N : SMCWBR14S-N5

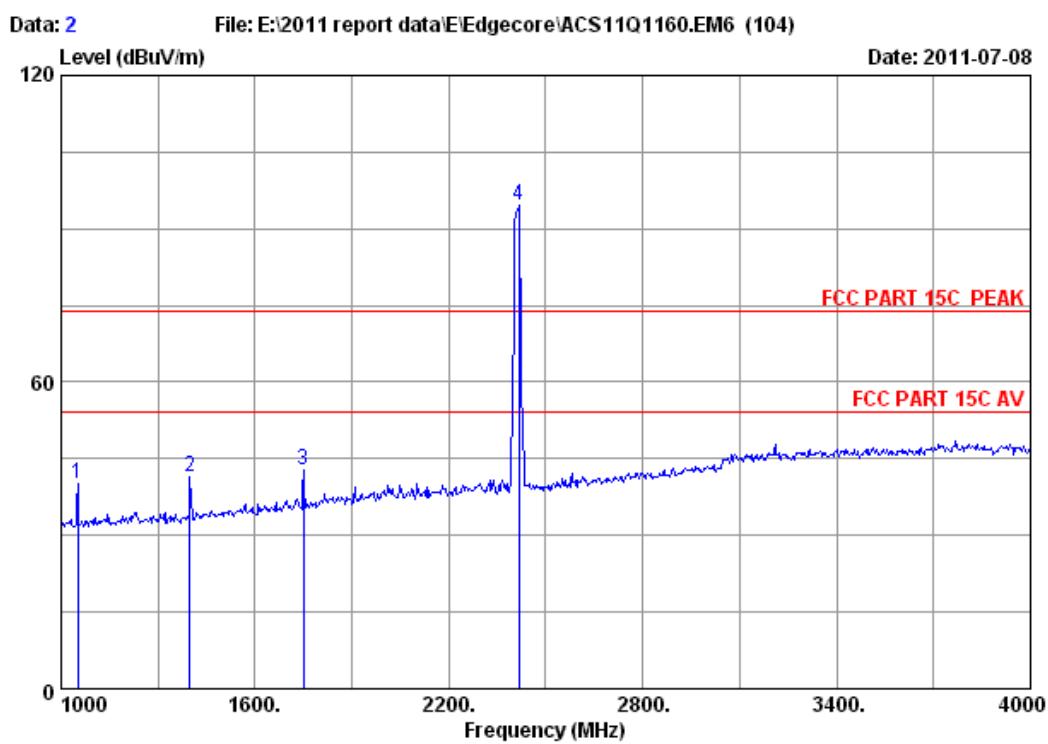
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 1051.000	25.50	4.86	37.81	49.20	41.75	74.00	32.25	Peak
2 1399.000	26.19	5.50	37.18	47.97	42.48	74.00	31.52	Peak
3 1750.000	27.80	6.18	36.86	48.05	45.17	74.00	28.83	Peak
4 2412.000	29.45	7.43	36.62	108.79	109.05	74.00	-35.05	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.

FCC ID:YZKSMCWR14SN5

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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 : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11b CH1 2412MHz Tx
M/N : SMCWR14S-N5

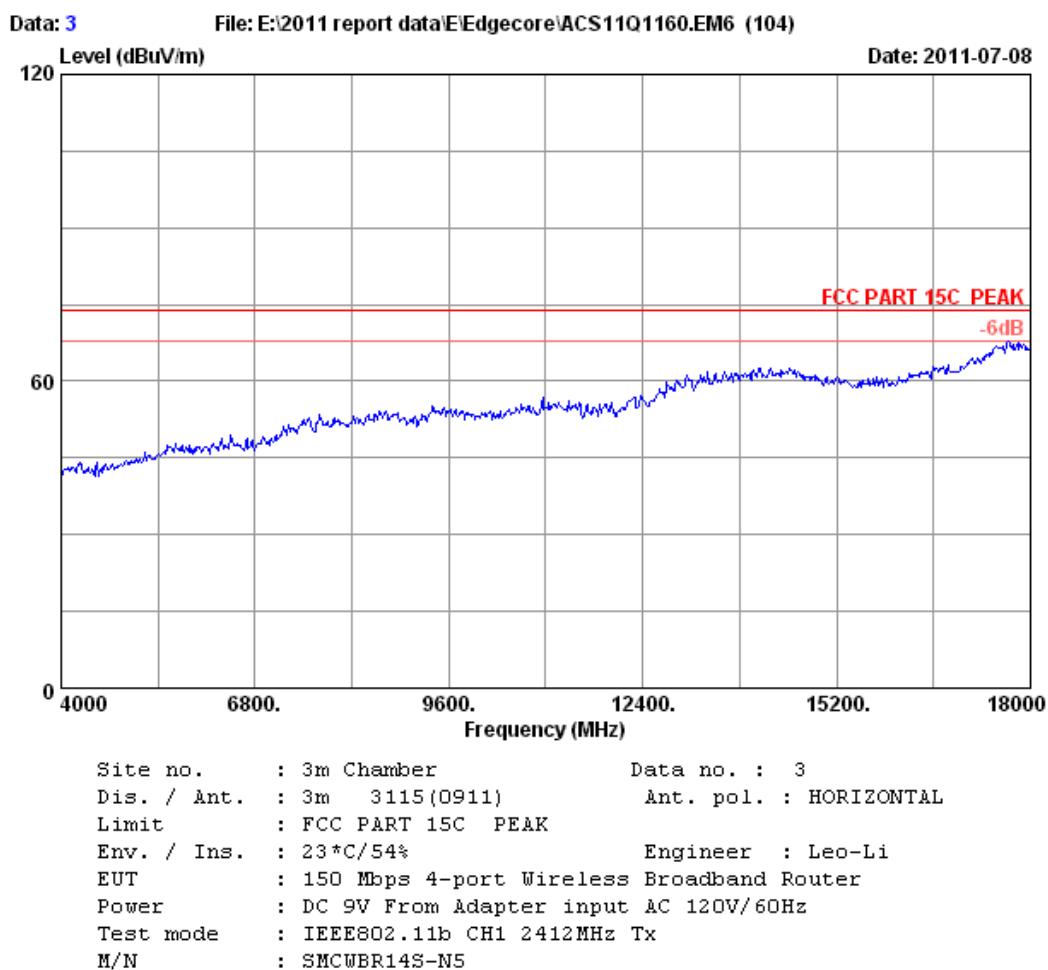
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission			
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1 1051.000	25.50	4.86	37.81	47.68	40.23	74.00	33.77 Peak
2 1399.000	26.19	5.50	37.18	46.97	41.48	74.00	32.52 Peak
3 1750.000	27.80	6.18	36.86	45.79	42.91	74.00	31.09 Peak
4 2416.000	29.45	7.43	36.61	94.41	94.68	74.00	-20.68 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.

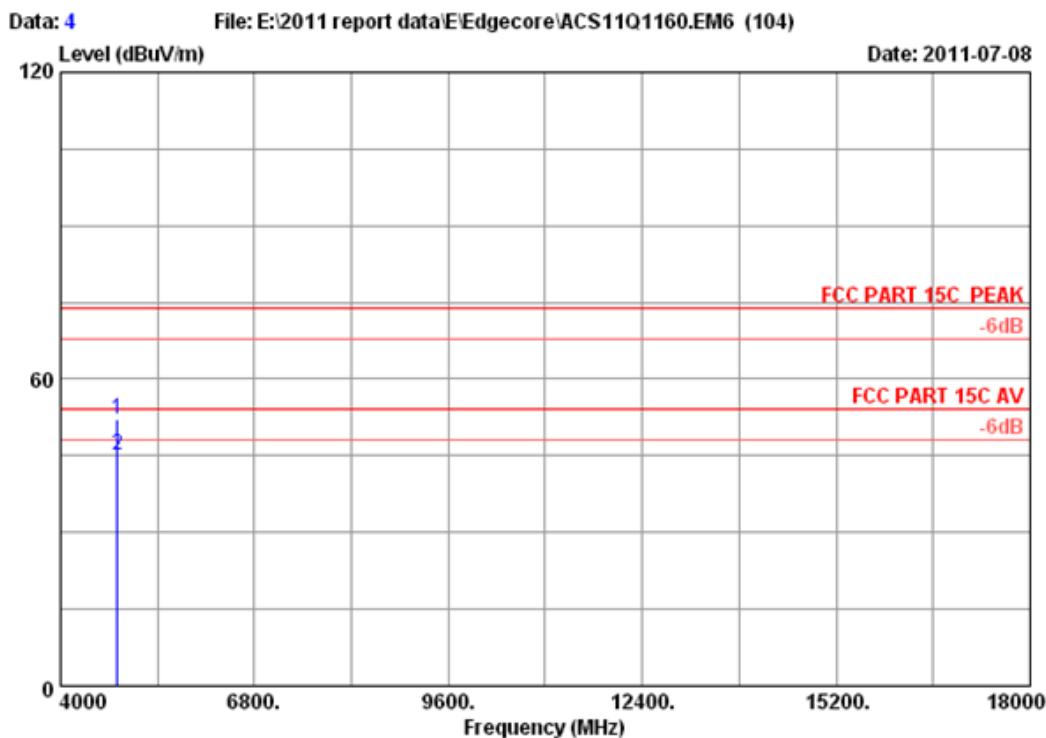
FCC ID:YZKSMCWBRI4SN5

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FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 4
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11b CH1 2412MHz Tx
M/N : SMCWR14S-N5

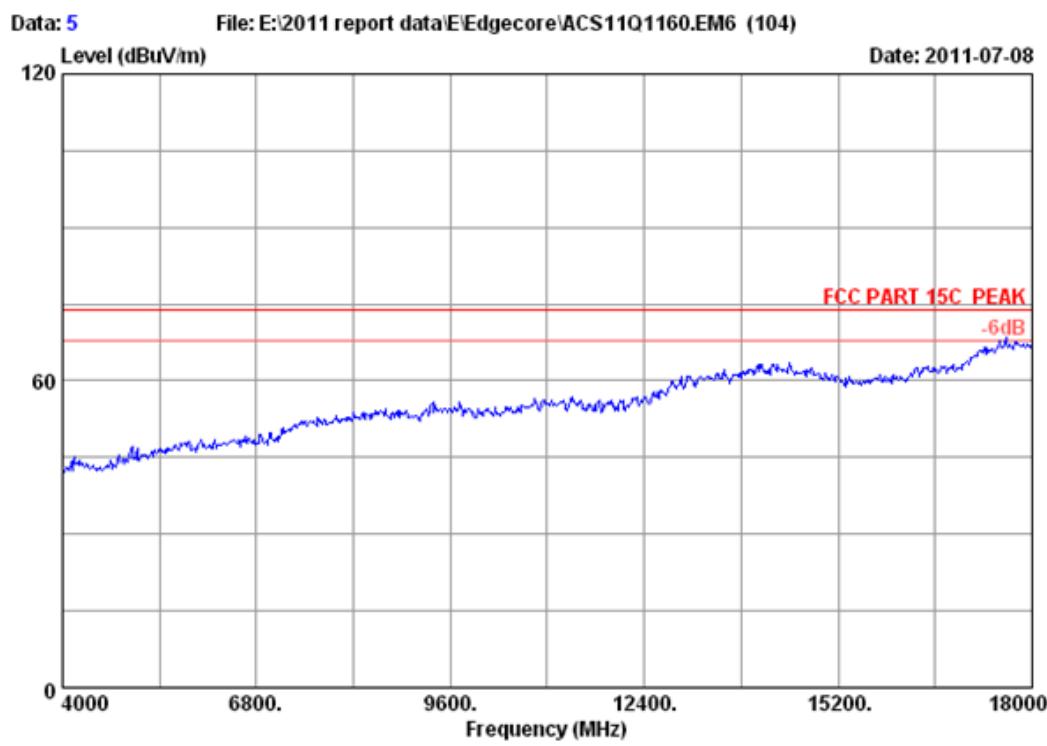
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 4824.000	34.32	10.64	35.08	42.37	52.25	74.00	21.75	Peak
2 4824.000	34.32	10.64	35.08	35.27	45.15	54.00	8.85	Average

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.

FCC ID:YZKSMCWR14SN5

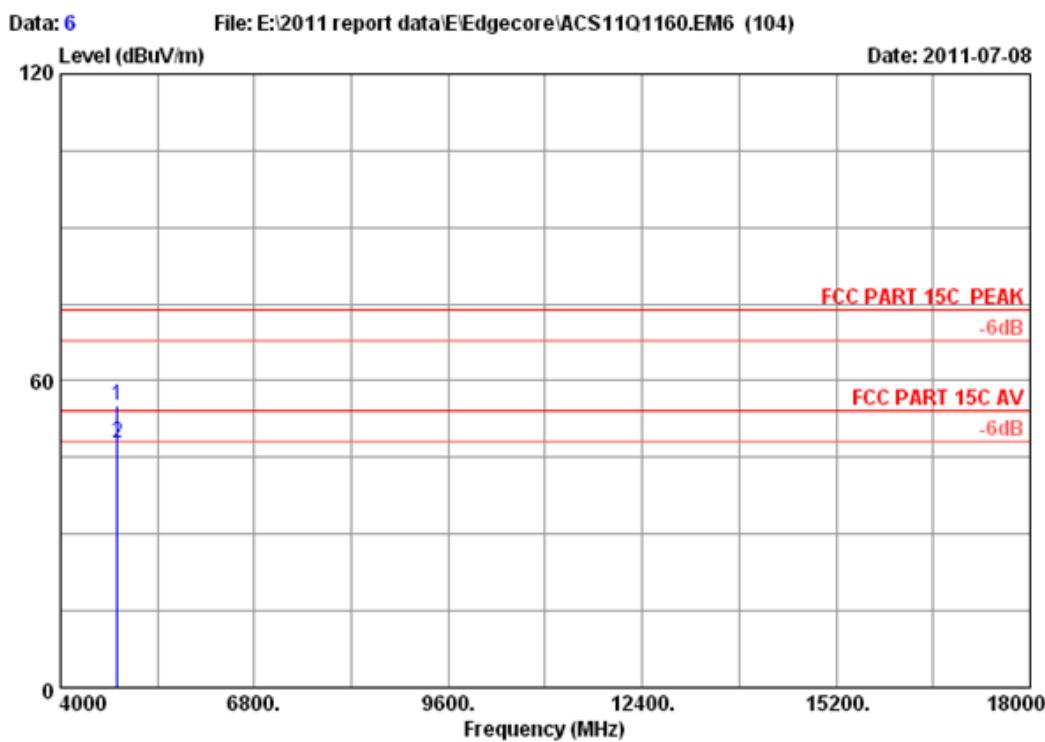
page 4-11



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 : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11b CH1 2412MHz Tx
M/N : SMCWR14S-N5

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 6
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11b CH1 2412MHz Tx
M/N : SMCWR14S-N5

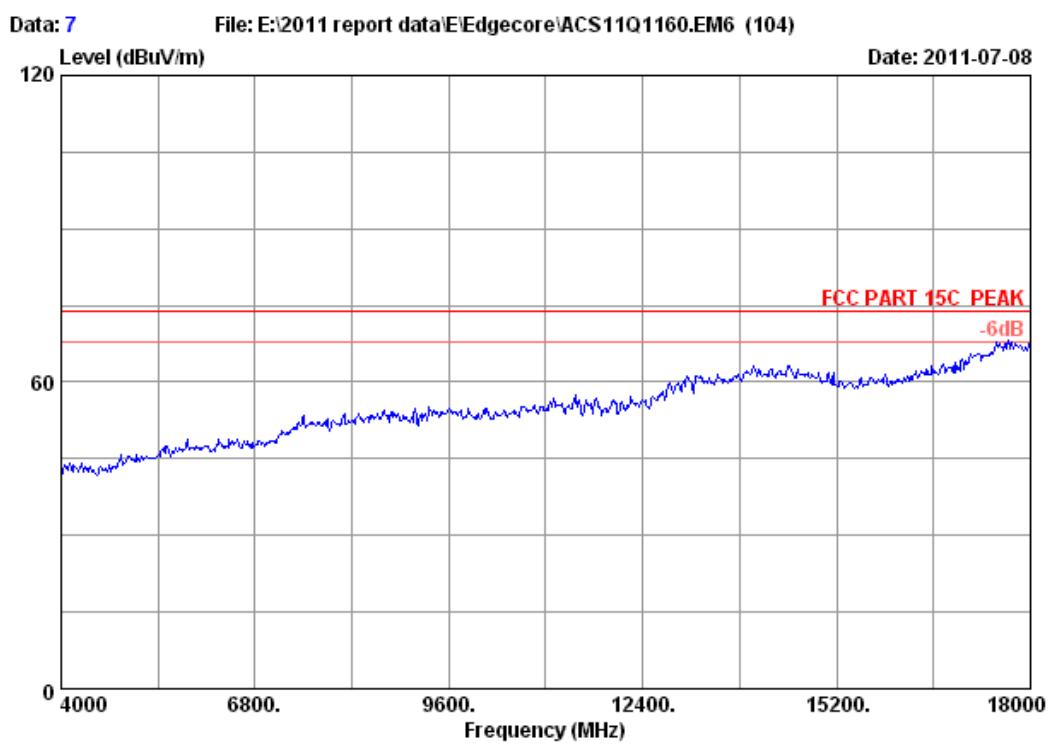
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4824.000	34.32	10.64	35.08	45.26	55.14	74.00	18.86 Peak
2	4824.000	34.32	10.64	35.08	37.85	47.73	54.00	6.27 Average

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.

FCC ID:YZKSMCWR14SN5

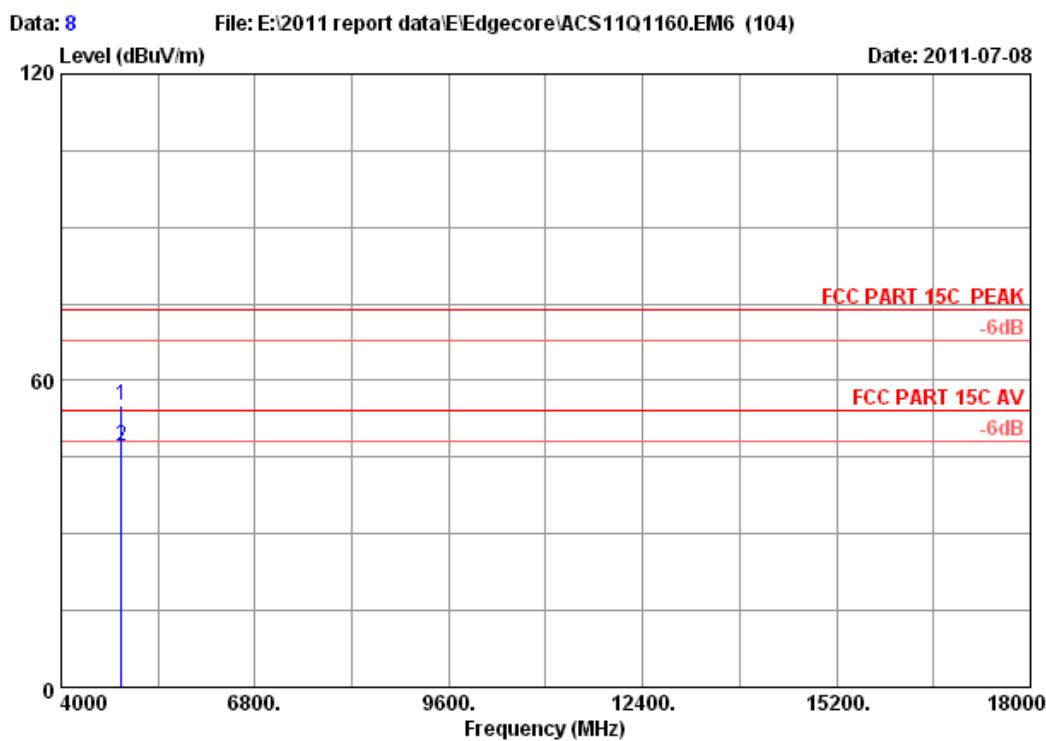
page 4-13



Site no. : 3m Chamber Data no. : 7
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11b CH6 2437MHz Tx
M/N : SMCWR14S-N5

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 8
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11b CH6 2437MHz Tx
M/N : SMCWBR14S-N5

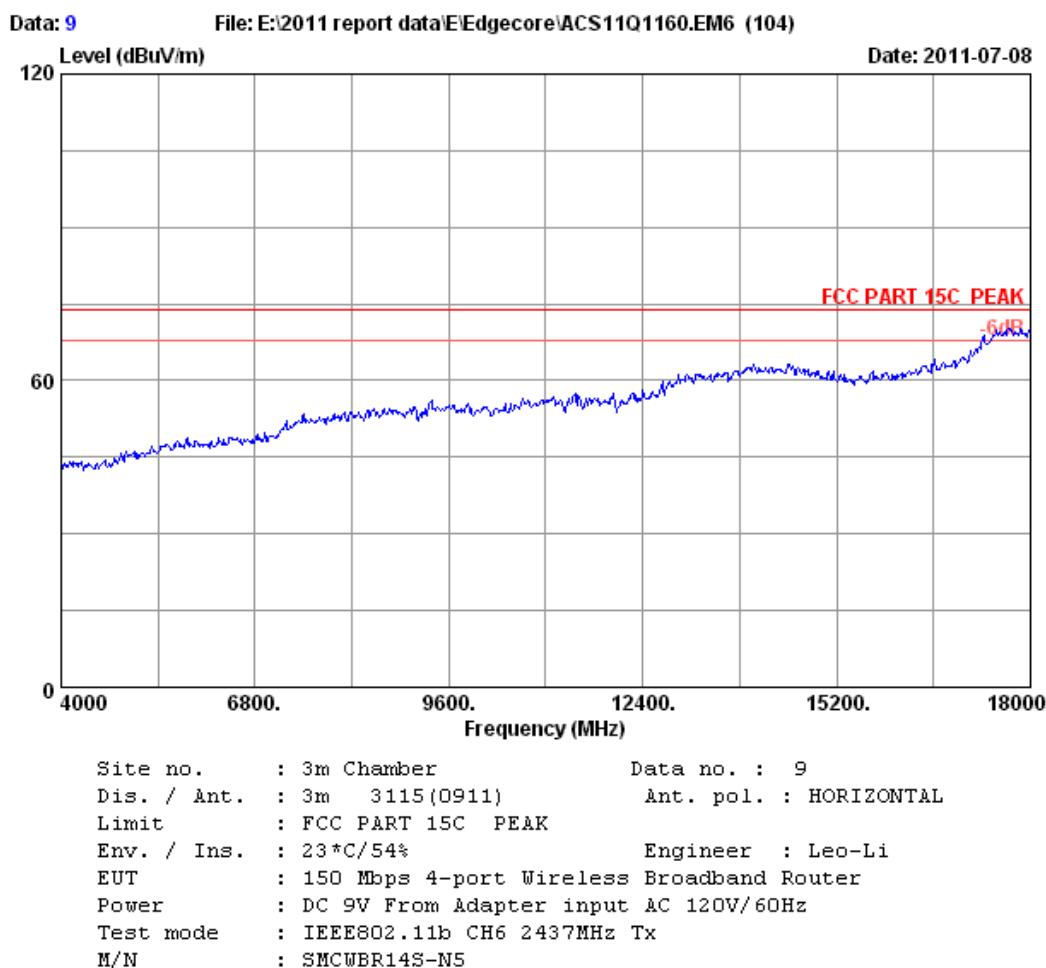
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4874.000	34.41	10.69	35.03	45.13	55.20	74.00	18.80 Peak
2	4874.000	34.41	10.69	35.03	37.16	47.23	54.00	6.77 Average

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.

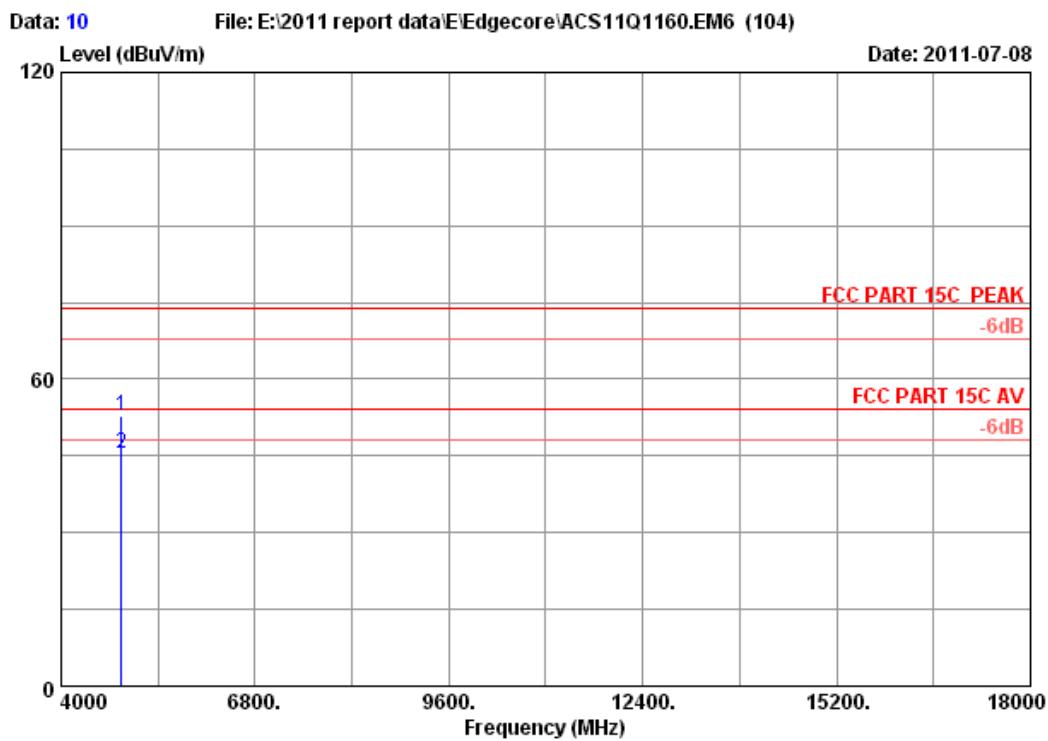
FCC ID:YZKSMCWR14SN5

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FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 10
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11b CH6 2437MHz Tx
M/N : SMCWBR14S-N5

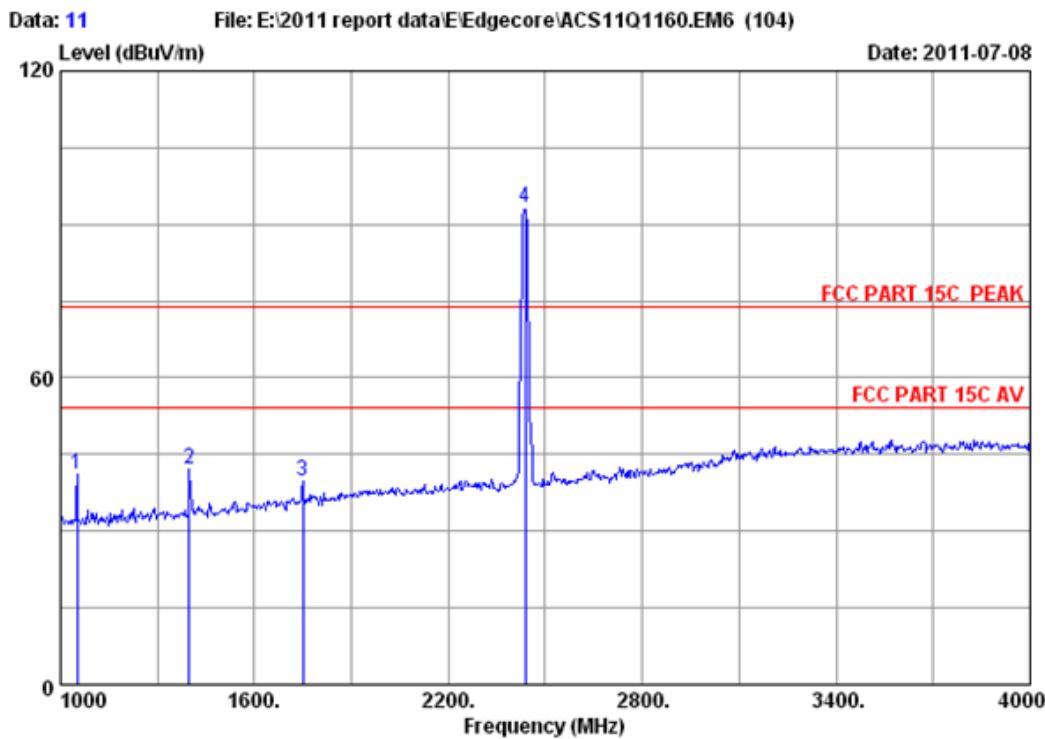
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4874.000	34.41	10.69	35.03	42.68	52.75	74.00	21.25 Peak
2	4874.000	34.41	10.69	35.03	35.42	45.49	54.00	8.51 Average

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.

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 11
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11b CH6 2437MHz Tx
M/N : SMCWR14S-N5

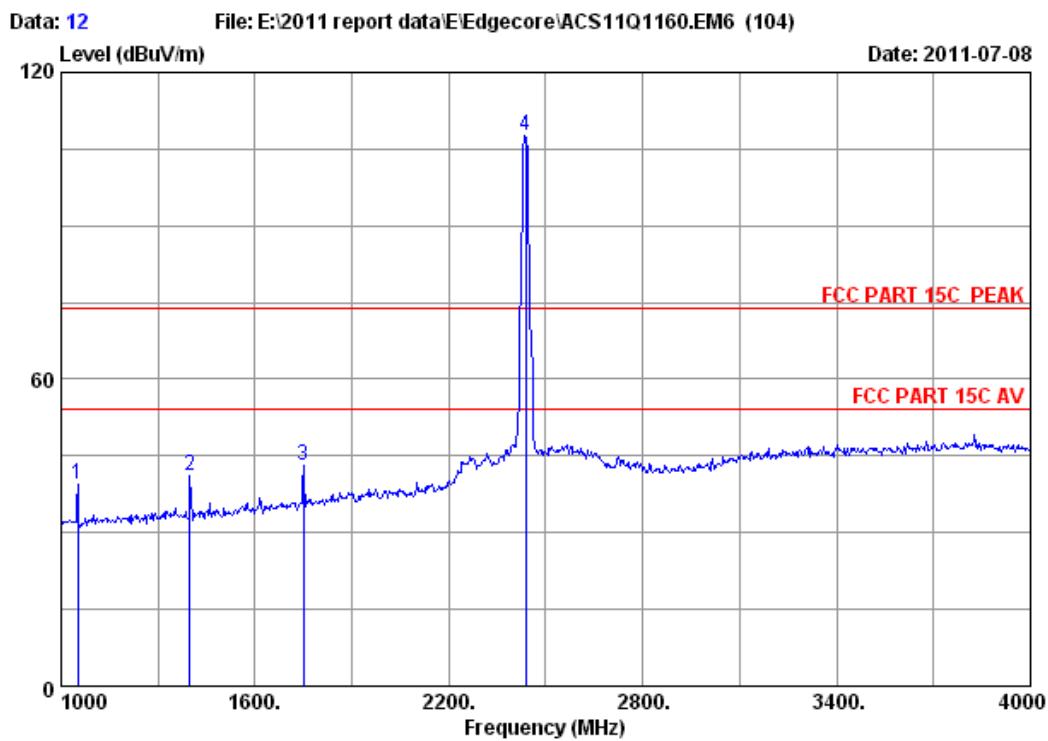
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 1051.000	25.50	4.86	37.81	48.55	41.10	74.00	32.90	Peak
2 1399.000	26.19	5.50	37.18	47.52	42.03	74.00	31.97	Peak
3 1750.000	27.80	6.18	36.86	42.53	39.65	74.00	34.35	Peak
4 2437.000	29.47	7.46	36.61	92.89	93.21	74.00	-19.21	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.

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 12
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11b CH6 2437MHz Tx
M/N : SMCWBR14S-N5

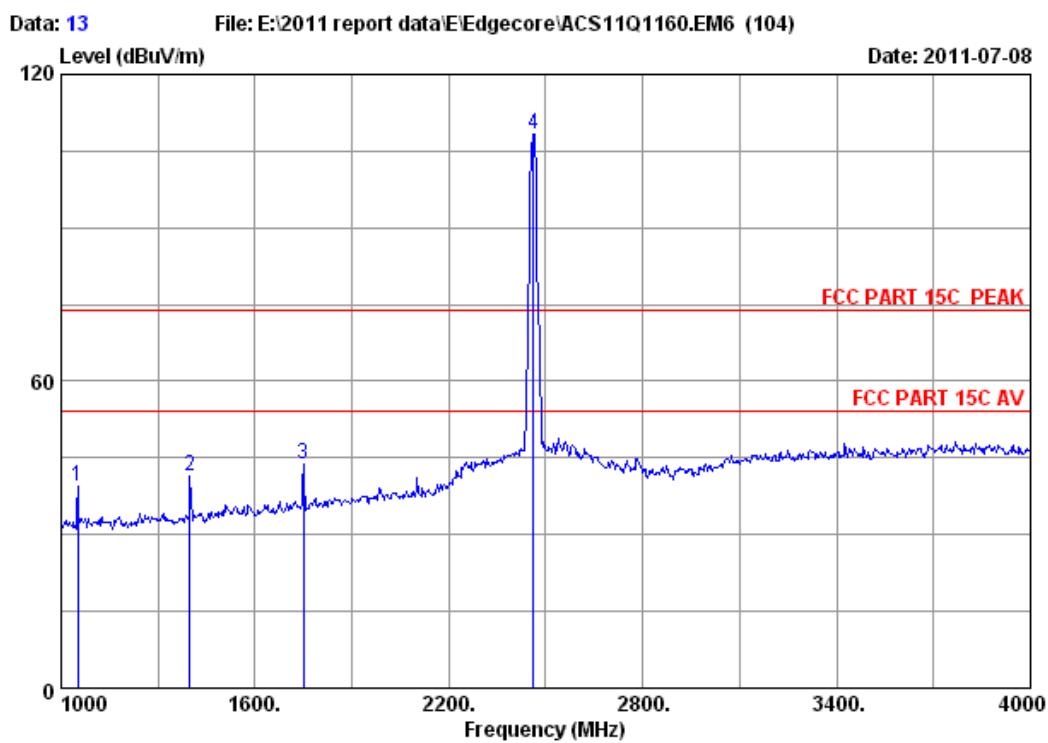
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1051.000	25.50	4.86	37.81	46.84	39.39	74.00	34.61 Peak
2	1399.000	26.19	5.50	37.18	46.65	41.16	74.00	32.84 Peak
3	1750.000	27.80	6.18	36.86	46.14	43.26	74.00	30.74 Peak
4	2437.000	29.47	7.46	36.61	107.22	107.54	74.00	-33.54 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.

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 13
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11b CH11 2462MHz Tx
M/N : SMCWBR14S-N5

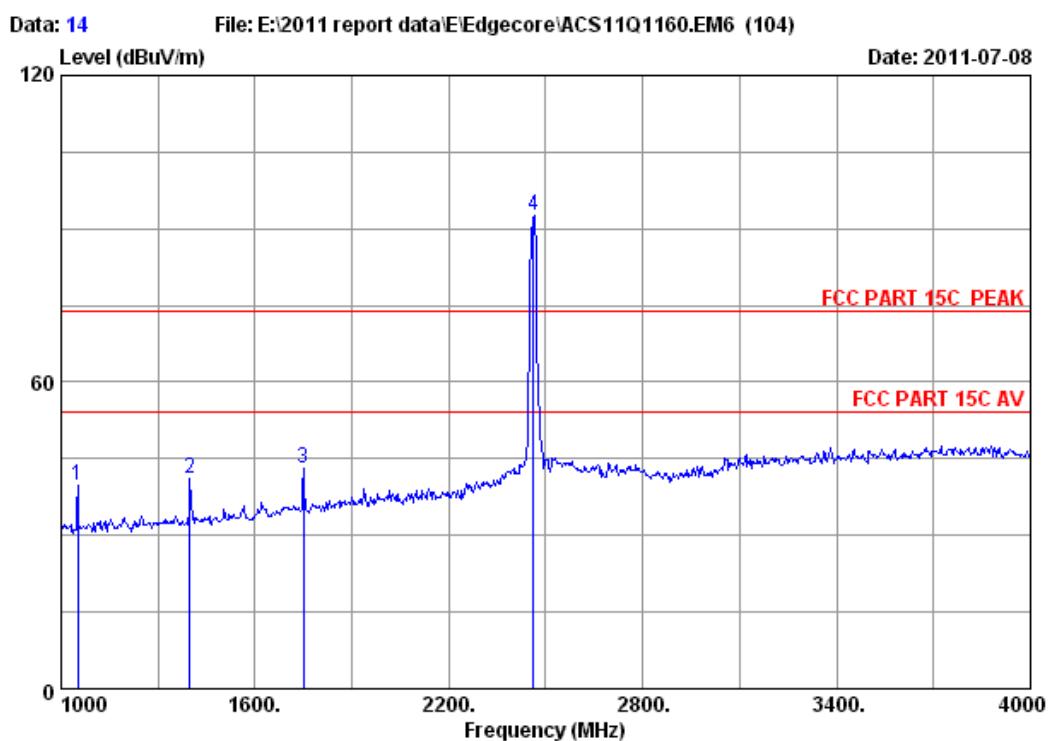
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 1051.000	25.50	4.86	37.81	46.83	39.38	74.00	34.62	Peak
2 1399.000	26.19	5.50	37.18	47.05	41.56	74.00	32.44	Peak
3 1750.000	27.80	6.18	36.86	46.73	43.85	74.00	30.15	Peak
4 2462.000	29.48	7.54	36.61	107.98	108.39	74.00	-34.39	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.

FCC ID:YZKSMCWR14SN5

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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 : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11b CH11 2462MHz Tx
M/N : SMCWR14S-N5

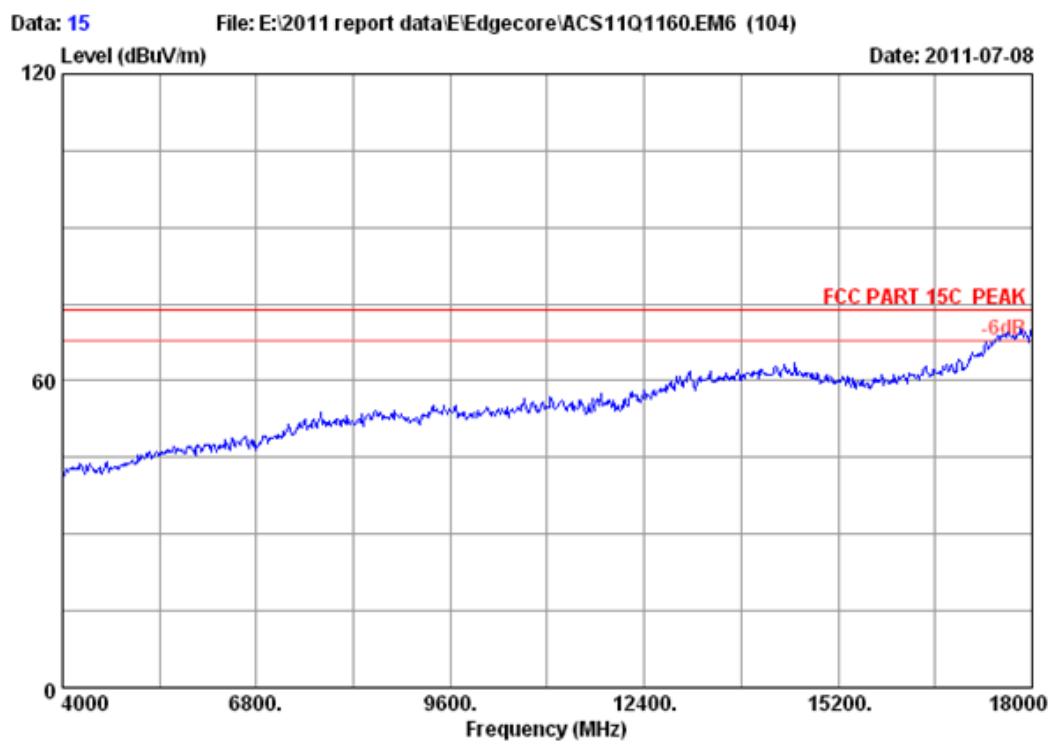
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 1051.000	25.50	4.86	37.81	47.08	39.63	74.00	34.37	Peak
2 1399.000	26.19	5.50	37.18	46.69	41.20	74.00	32.80	Peak
3 1750.000	27.80	6.18	36.86	46.05	43.17	74.00	30.83	Peak
4 2462.000	29.48	7.54	36.61	92.17	92.58	74.00	-18.58	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.

FCC ID:YZKSMCWR14SN5

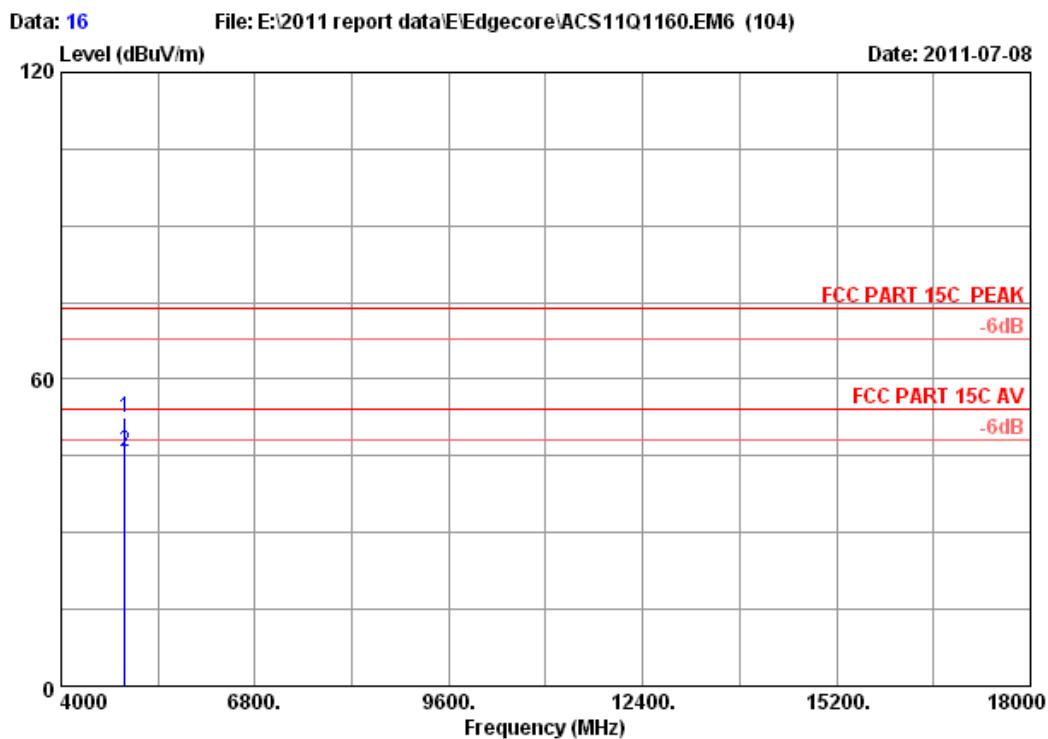
page 4-21



Site no.	:	3m Chamber	Data no. :	15
Dis. / Ant.	:	3m 3115(0911)	Ant. pol. :	HORIZONTAL
Limit	:	FCC PART 15C PEAK		
Env. / Ins.	:	23°C/54%	Engineer :	Leo-Li
EUT	:	150 Mbps 4-port Wireless Broadband Router		
Power	:	DC 9V From Adapter input AC 120V/60Hz		
Test mode	:	IEEE802.11b CH11 2462MHz Tx		
M/N	:	SMCWR14S-N5		

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 16
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11b CH11 2462MHz Tx
M/N : SMCWBR14S-N5

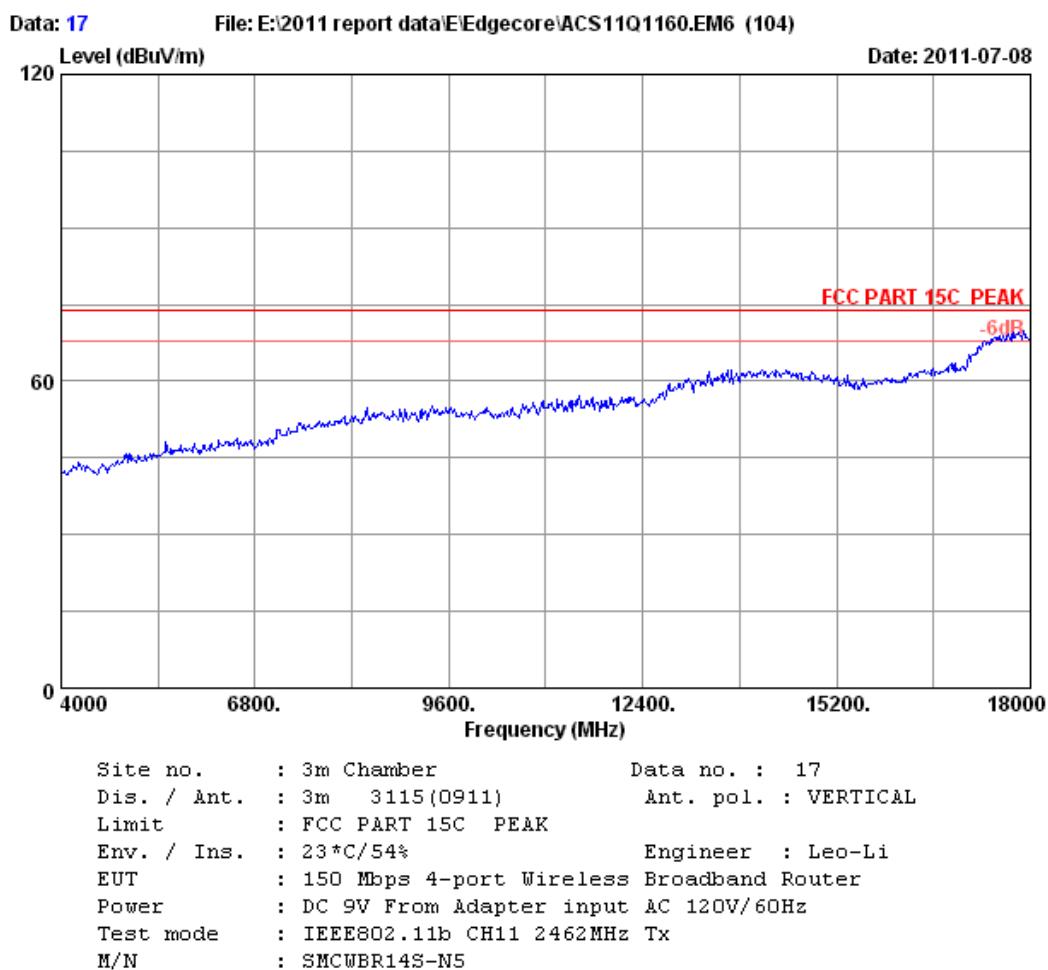
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4924.000	34.49	10.76	34.98	42.13	52.40	74.00	21.60 Peak
2	4924.000	34.49	10.76	34.98	35.42	45.69	54.00	8.31 Average

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.

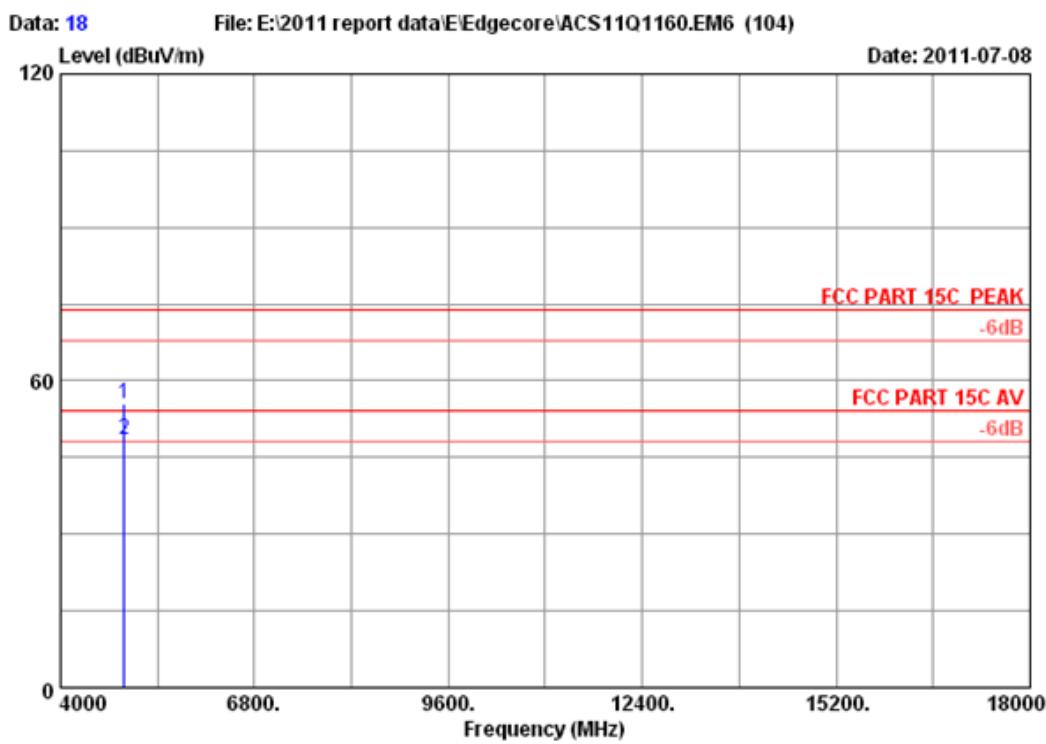
FCC ID:YZKSMCWR14SN5

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FCC ID:YZKSMCWBR14SN5

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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 : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11b CH11 2462MHz Tx
M/N : SMCWBR14S-N5

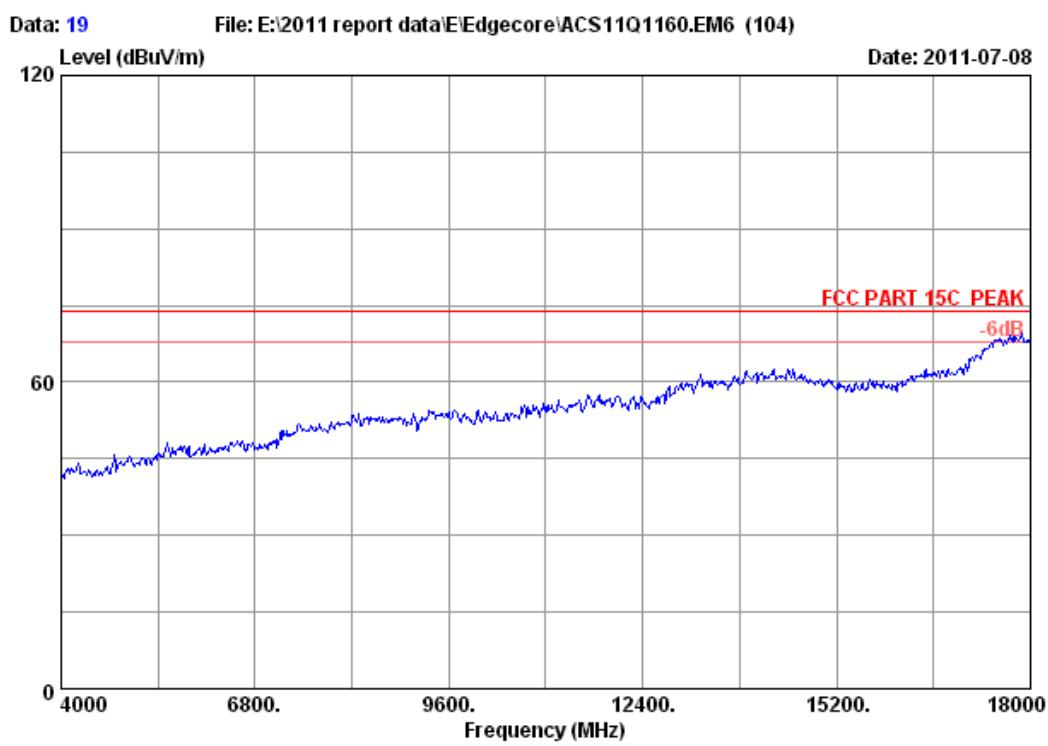
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4924.000	34.49	10.76	34.98	45.32	55.59	74.00	18.41 Peak
2	4924.000	34.49	10.76	34.98	38.14	48.41	54.00	5.59 Average

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.

FCC ID:YZKSMCWR14SN5

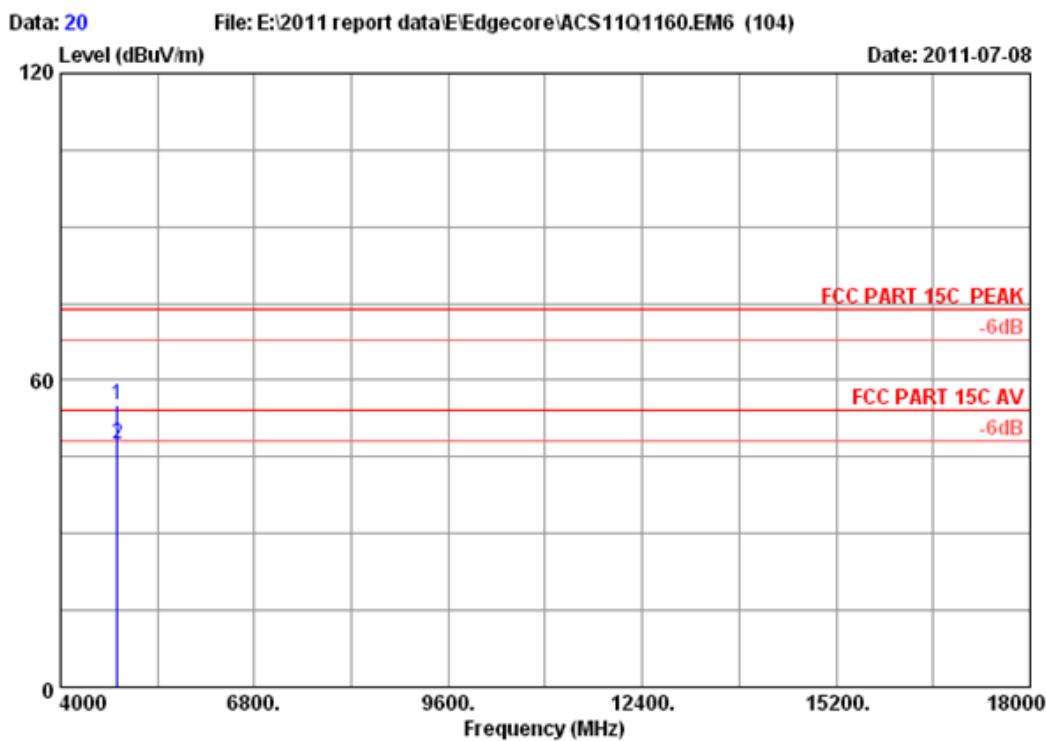
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Site no. : 3m Chamber Data no. : 19
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11g CH1 2412MHz Tx
M/N : SMCWR14S-N5

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 20
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11g CH1 2412MHz Tx
M/N : SMCWR14S-N5

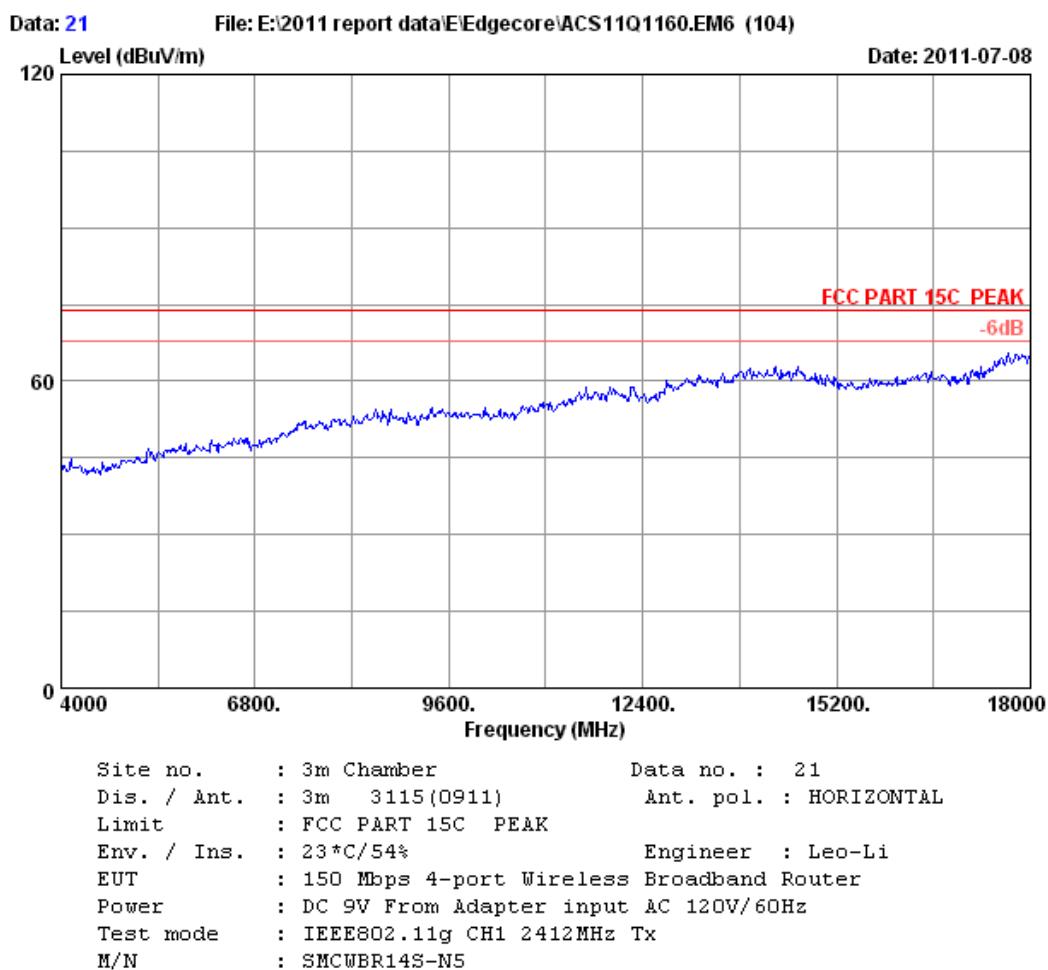
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4824.000	34.32	10.64	35.08	45.37	55.25	74.00	18.75 Peak
2	4824.000	34.32	10.64	35.08	37.43	47.31	54.00	6.69 Average

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.

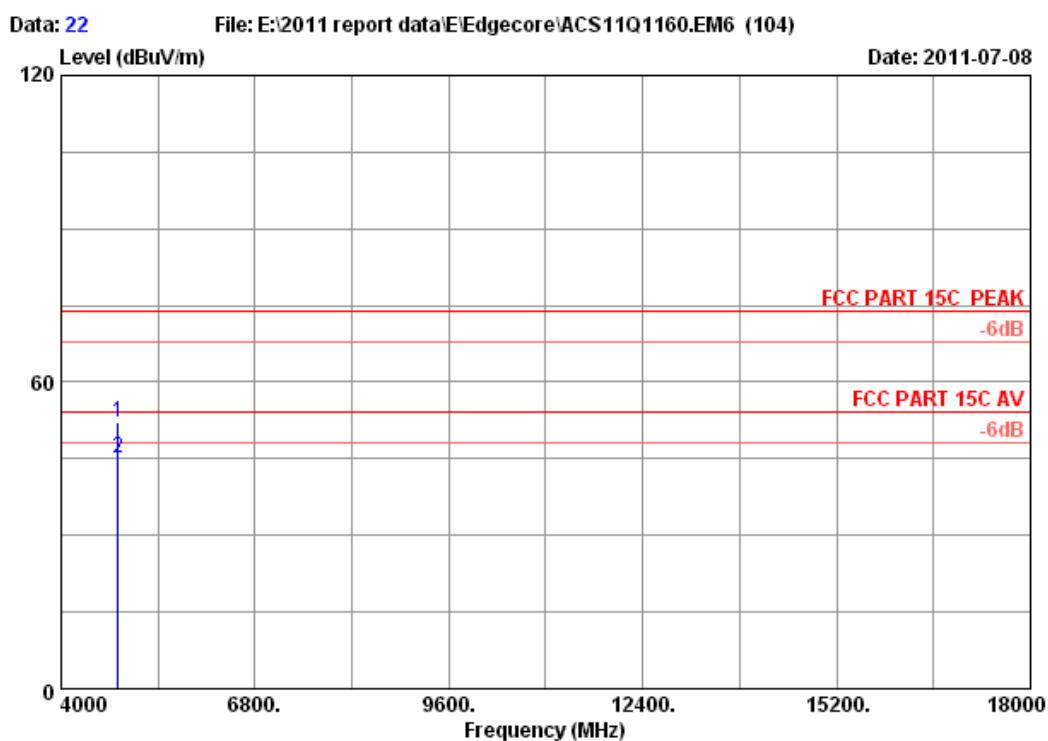
FCC ID:YZKSMCWBR14SN5

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FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 22
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11g CH1 2412MHz Tx
M/N : SMCWR14S-N5

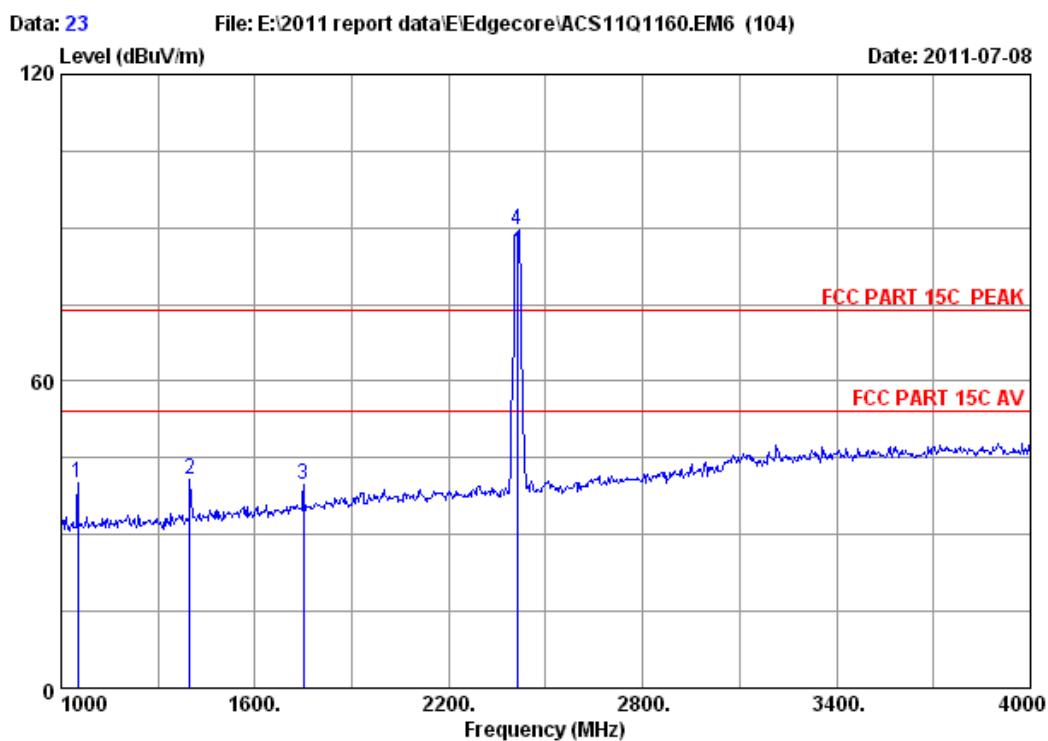
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 4824.000	34.32	10.64	35.08	42.37	52.25	74.00	21.75	Peak
2 4824.000	34.32	10.64	35.08	35.28	45.16	54.00	8.84	Average

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.

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 23
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11g CH1 2412MHz Tx
M/N : SMCWBR14S-N5

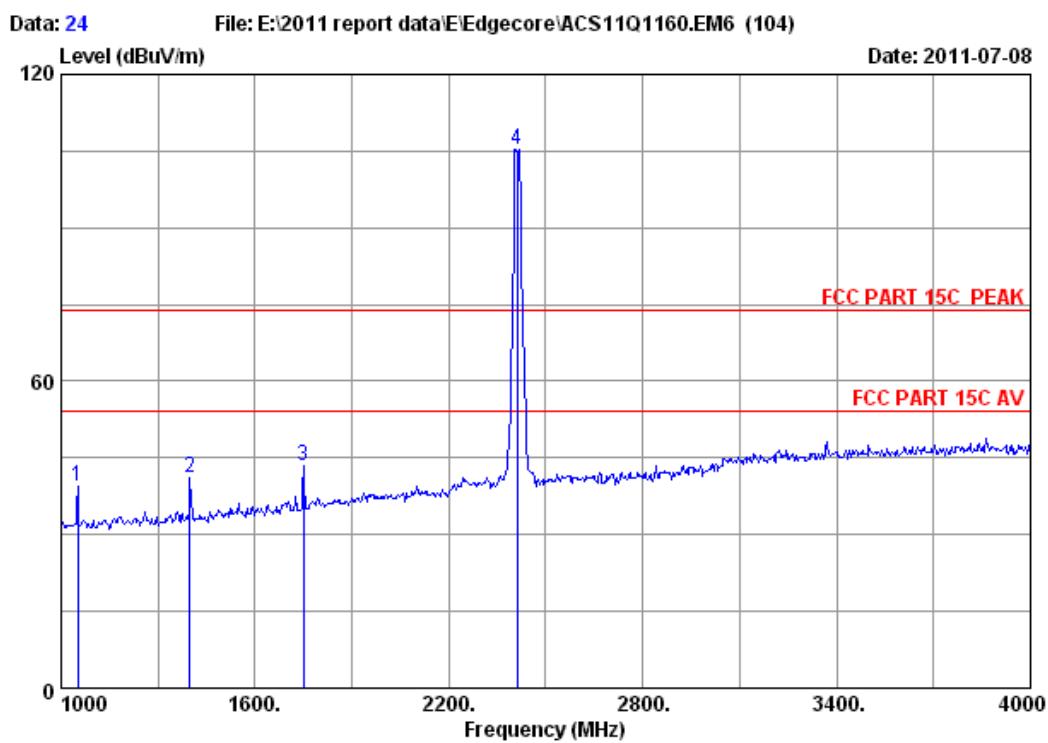
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 1051.000	25.50	4.86	37.81	47.59	40.14	74.00	33.86	Peak
2 1399.000	26.19	5.50	37.18	46.40	40.91	74.00	33.09	Peak
3 1750.000	27.80	6.18	36.86	42.54	39.66	74.00	34.34	Peak
4 2412.000	29.45	7.43	36.62	89.33	89.59	74.00	-15.59	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.

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 24
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11g CH1 2412MHz Tx
M/N : SMCWBR14S-N5

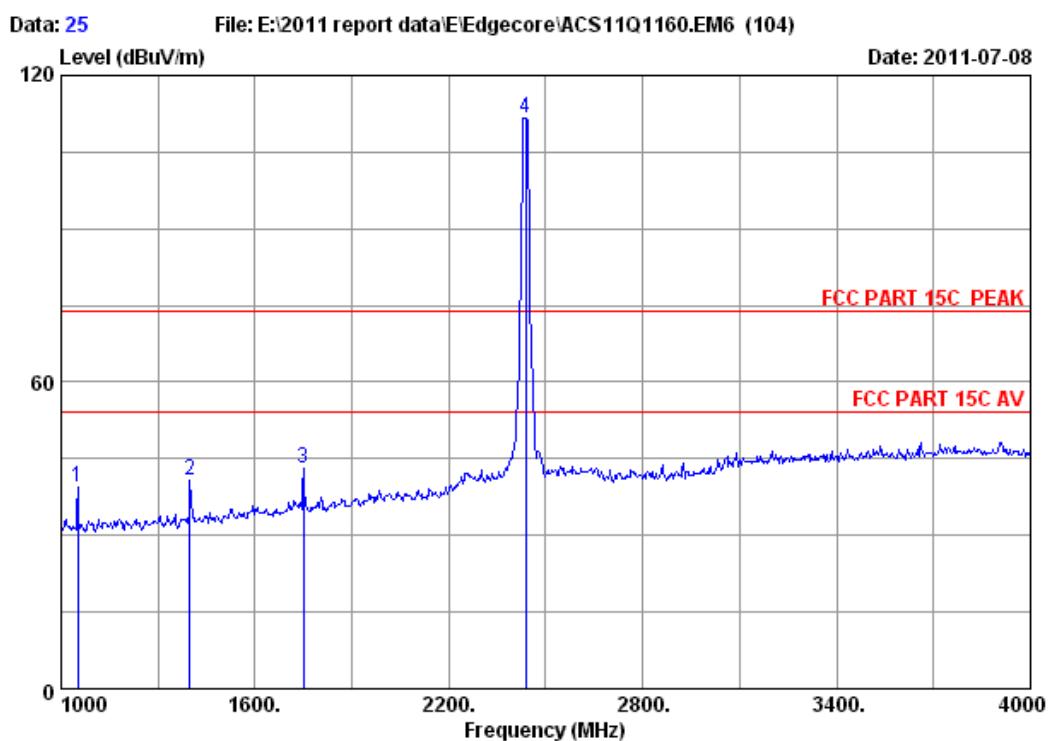
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 1051.000	25.50	4.86	37.81	46.80	39.35	74.00	34.65	Peak
2 1399.000	26.19	5.50	37.18	46.61	41.12	74.00	32.88	Peak
3 1750.000	27.80	6.18	36.86	46.33	43.45	74.00	30.55	Peak
4 2412.000	29.45	7.43	36.62	105.16	105.42	74.00	-31.42	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.

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 25
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11g CH6 2437MHz Tx
M/N : SMCWR14S-N5

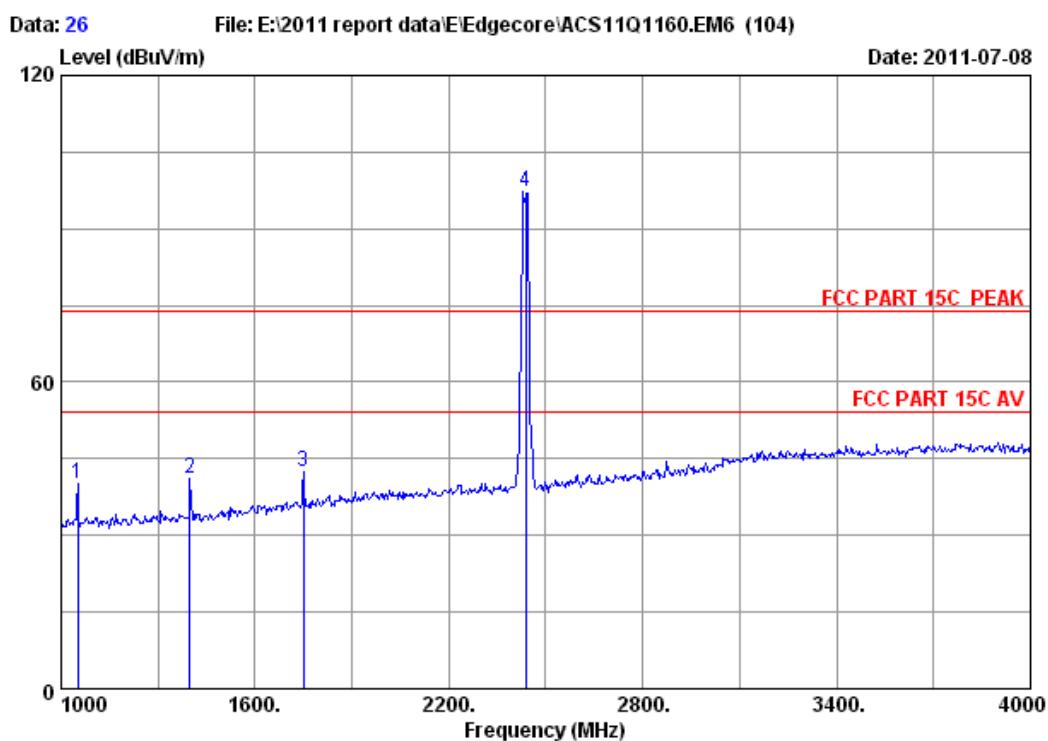
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 1051.000	25.50	4.86	37.81	46.81	39.36	74.00	34.64	Peak
2 1399.000	26.19	5.50	37.18	46.38	40.89	74.00	33.11	Peak
3 1750.000	27.80	6.18	36.86	46.04	43.16	74.00	30.84	Peak
4 2437.000	29.47	7.46	36.61	111.35	111.67	74.00	-37.67	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.

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 26
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11g CH6 2437MHz Tx
M/N : SMCWR14S-N5

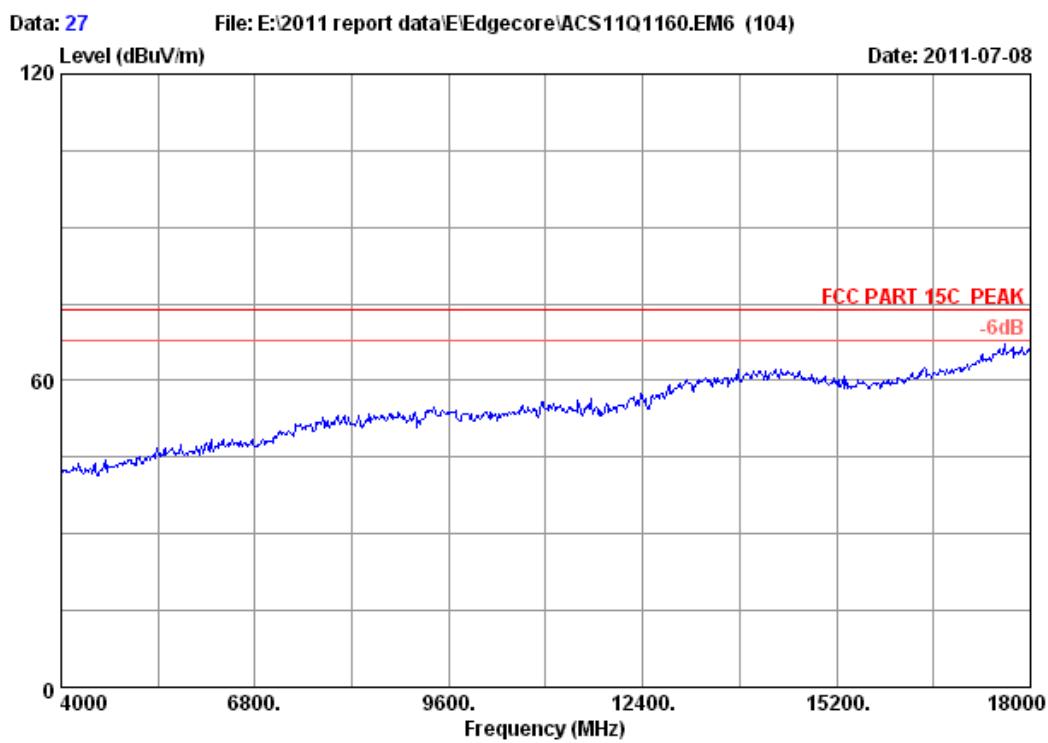
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission			
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1 1051.000	25.50	4.86	37.81	47.65	40.20	74.00	33.80 Peak
2 1399.000	26.19	5.50	37.18	46.69	41.20	74.00	32.80 Peak
3 1750.000	27.80	6.18	36.86	45.23	42.35	74.00	31.65 Peak
4 2437.000	29.47	7.46	36.61	96.98	97.30	74.00	-23.30 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.

FCC ID:YZKSMCWR14SN5

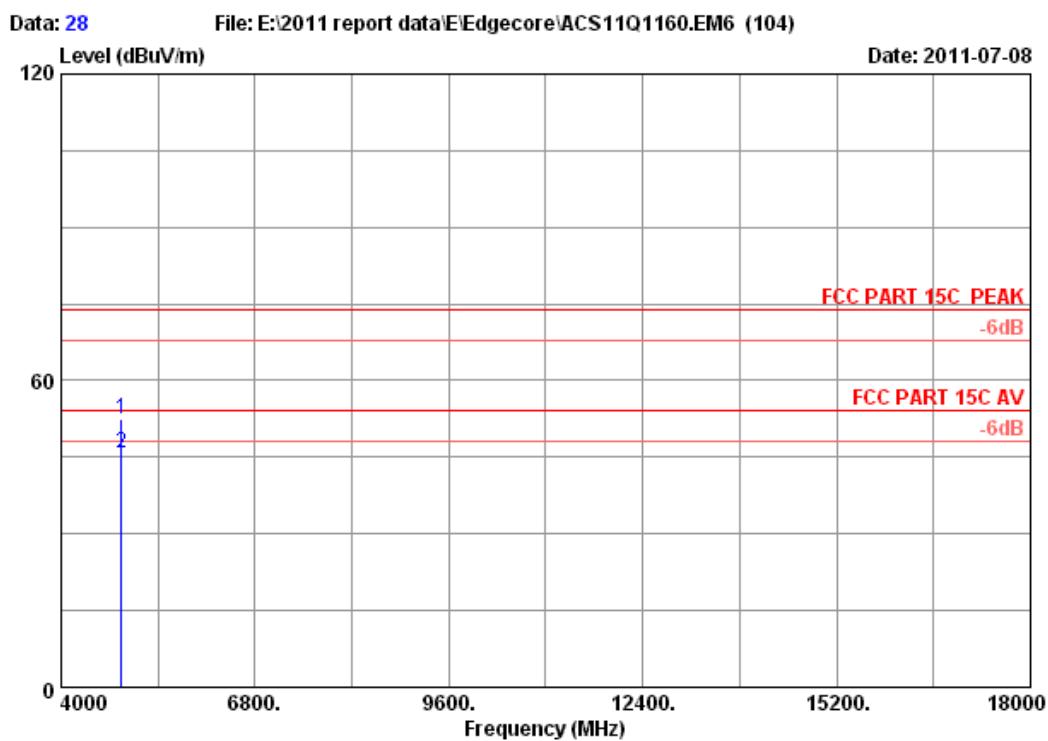
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Site no. : 3m Chamber Data no. : 27
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11g CH6 2437MHz Tx
M/N : SMCWBR14S-N5

FCC ID:YZKSMCWR14SN5

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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 : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11g CH6 2437MHz Tx
M/N : SMCWBR14S-N5

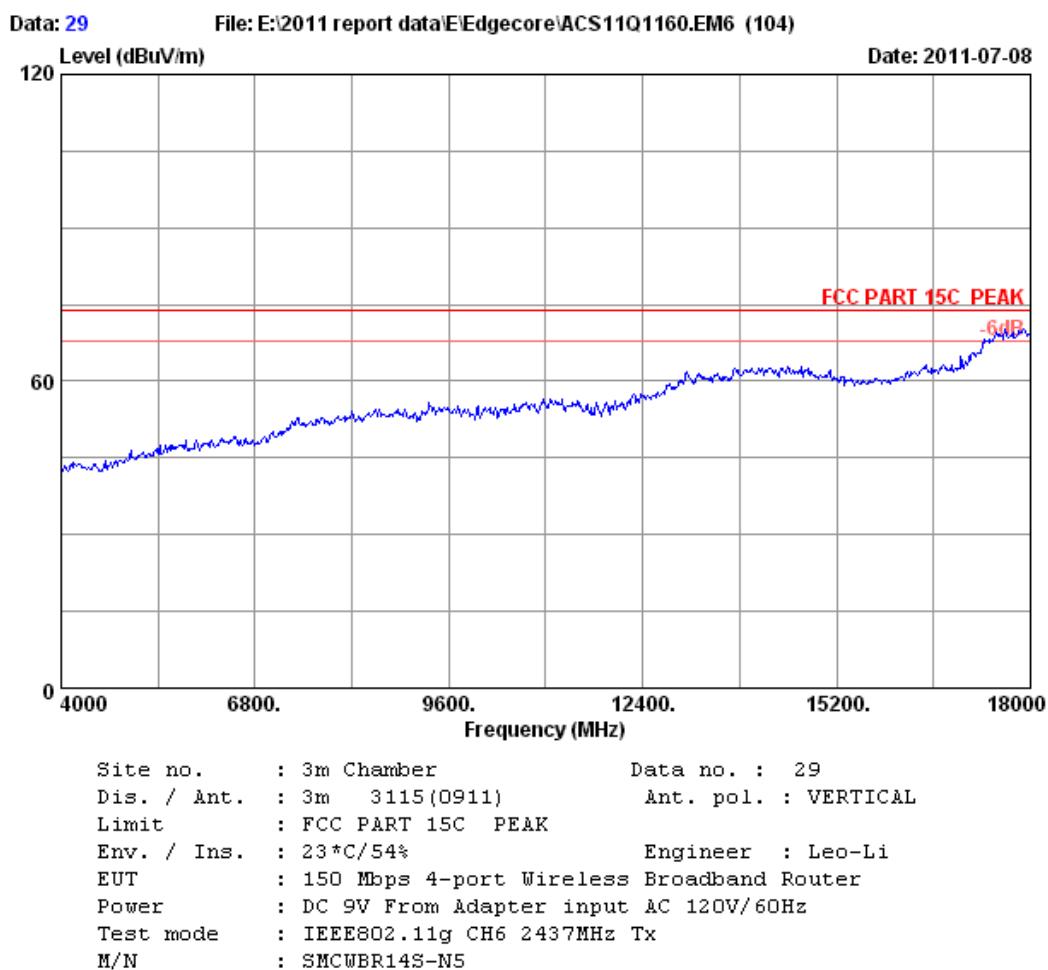
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4874.000	34.41	10.69	35.03	42.56	52.63	74.00	21.37 Peak
2	4874.000	34.41	10.69	35.03	35.84	45.91	54.00	8.09 Average

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.

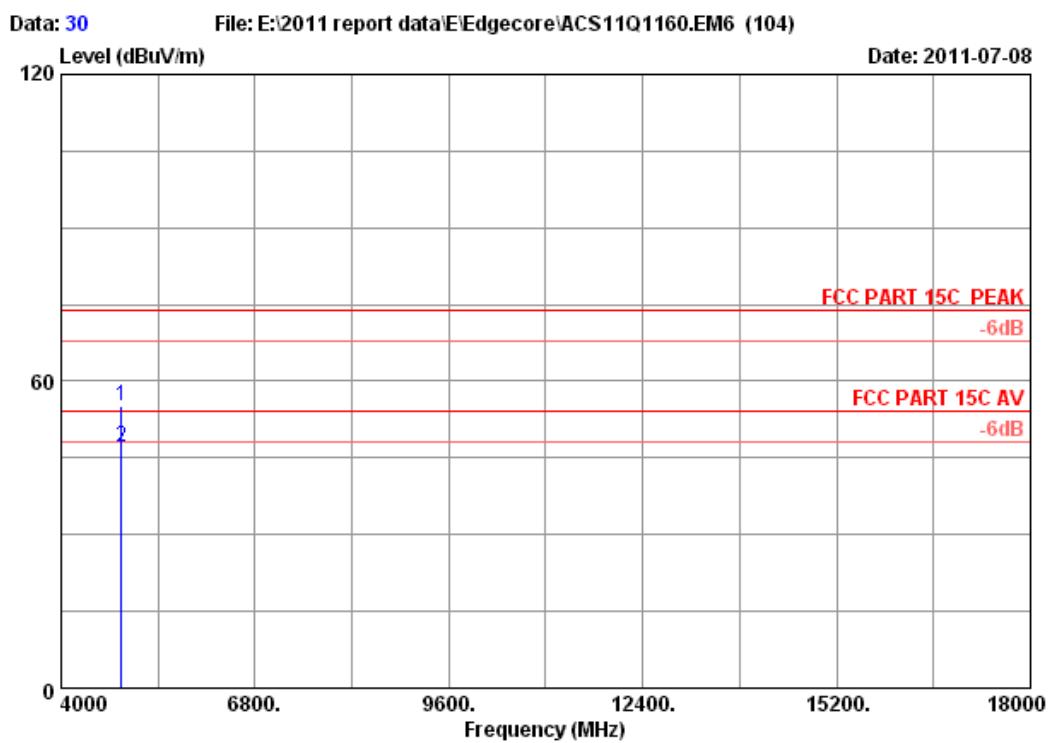
FCC ID:YZKSMCWBR14SN5

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FCC ID:YZKSMCWR14SN5

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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 : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11g CH6 2437MHz Tx
M/N : SMCWBR14S-N5

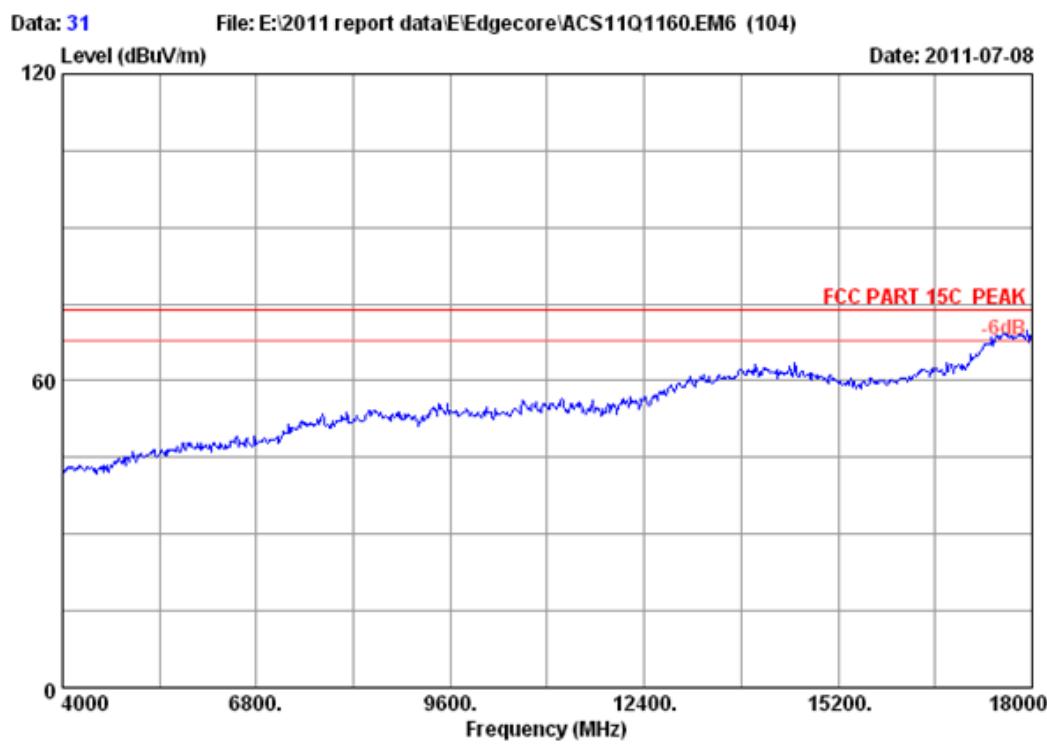
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4874.000	34.41	10.69	35.03	45.23	55.30	74.00	18.70 Peak
2	4874.000	34.41	10.69	35.03	36.98	47.05	54.00	6.95 Average

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.

FCC ID:YZKSMCWR14SN5

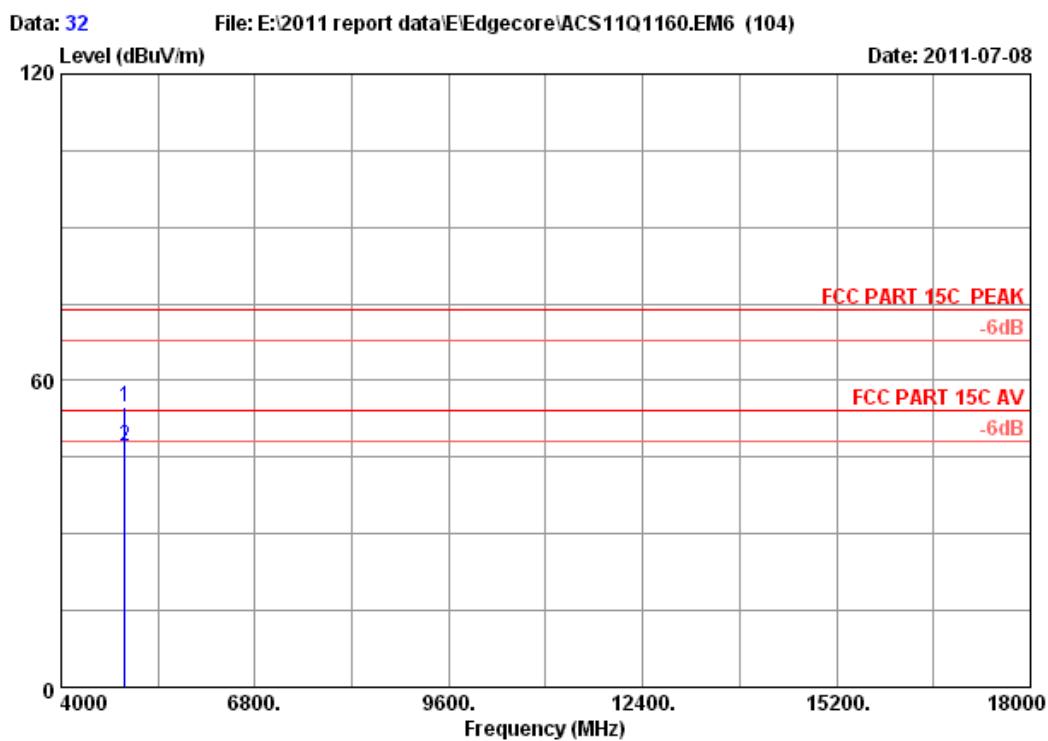
page 4-37



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	:	150 Mbps 4-port Wireless Broadband Router		
Power	:	DC 9V From Adapter input AC 120V/60Hz		
Test mode	:	IEEE802.11g CH11 2462MHz Tx		
M/N	:	SMCWR14S-N5		

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 32
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz Tx
M/N : SMCWBR14S-N5

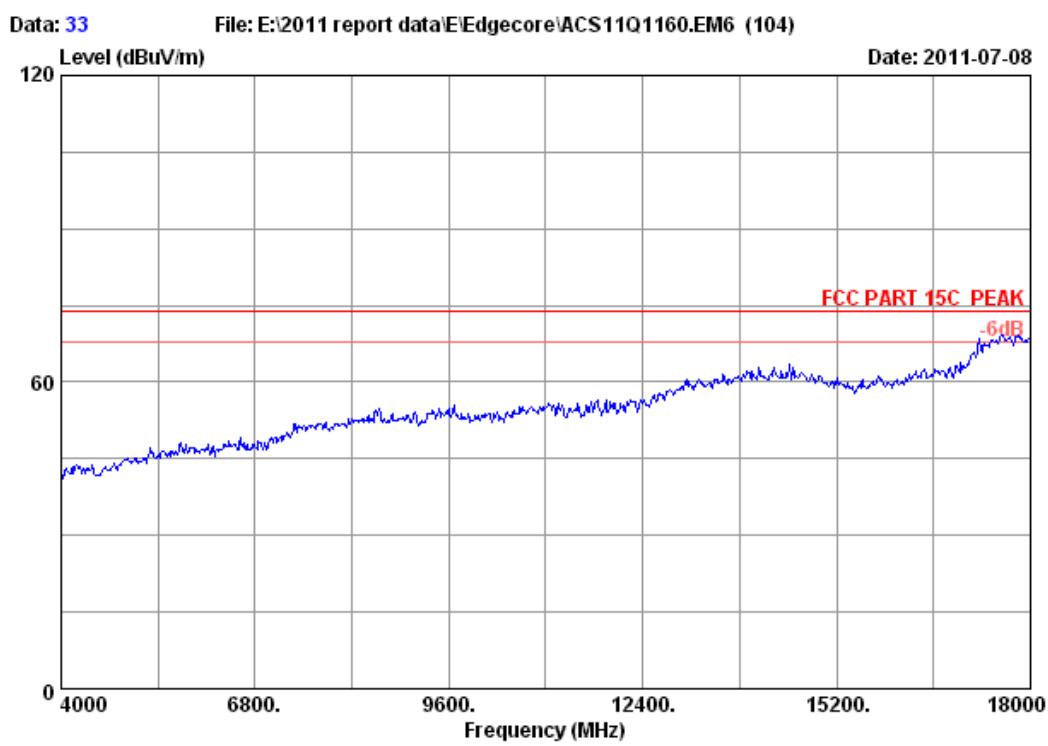
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4924.000	34.49	10.76	34.98	44.62	54.89	74.00	19.11 Peak
2	4924.000	34.49	10.76	34.98	36.87	47.14	54.00	6.86 Average

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.

FCC ID:YZKSMCWR14SN5

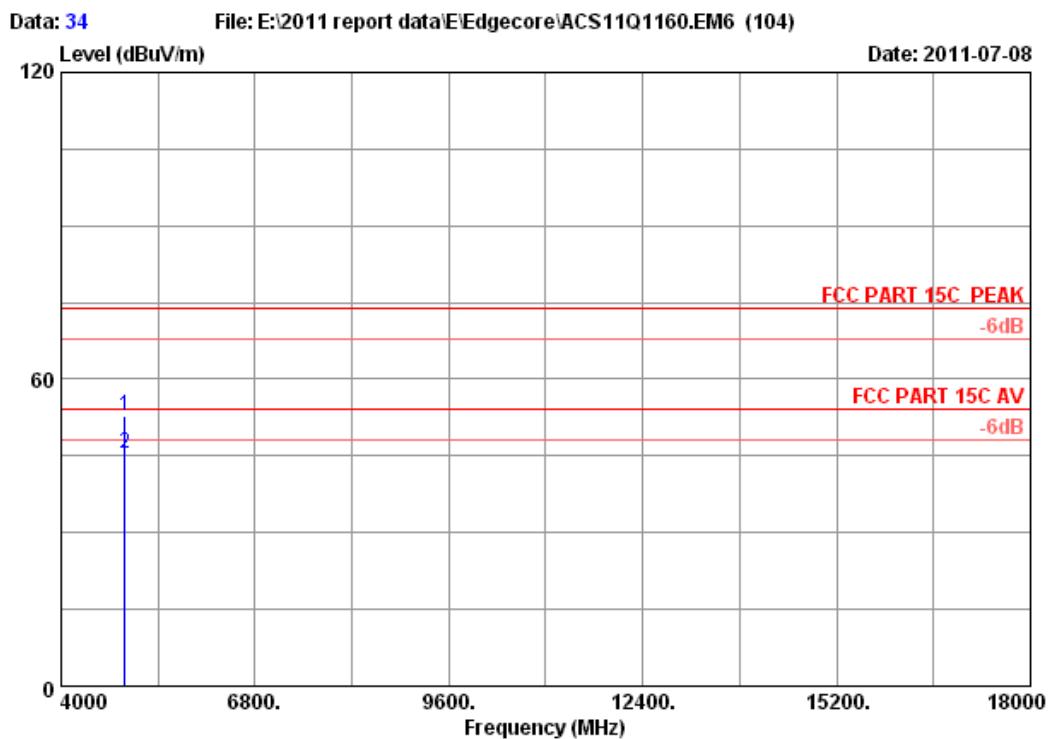
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Site no. : 3m Chamber Data no. : 33
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz Tx
M/N : SMCWR14S-N5

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 34
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz Tx
M/N : SMCWBR14S-N5

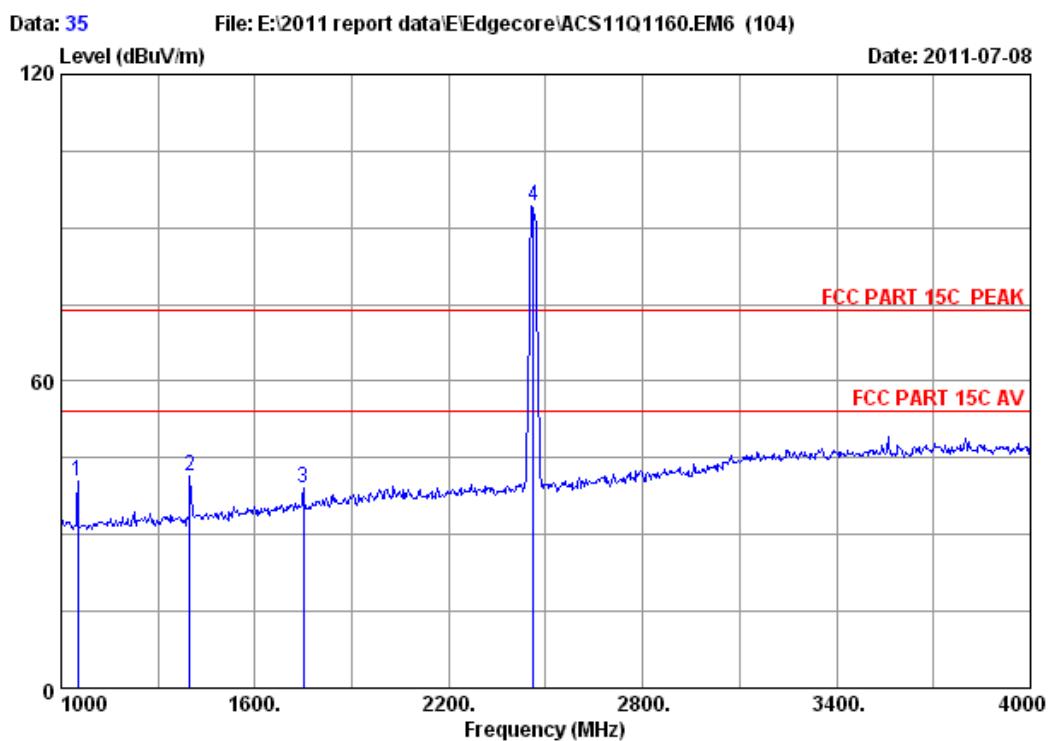
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4924.000	34.49	10.76	34.98	42.68	52.95	74.00	21.05 Peak
2	4924.000	34.49	10.76	34.98	35.27	45.54	54.00	8.46 Average

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.

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 35
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz Tx
M/N : SMCWBR14S-N5

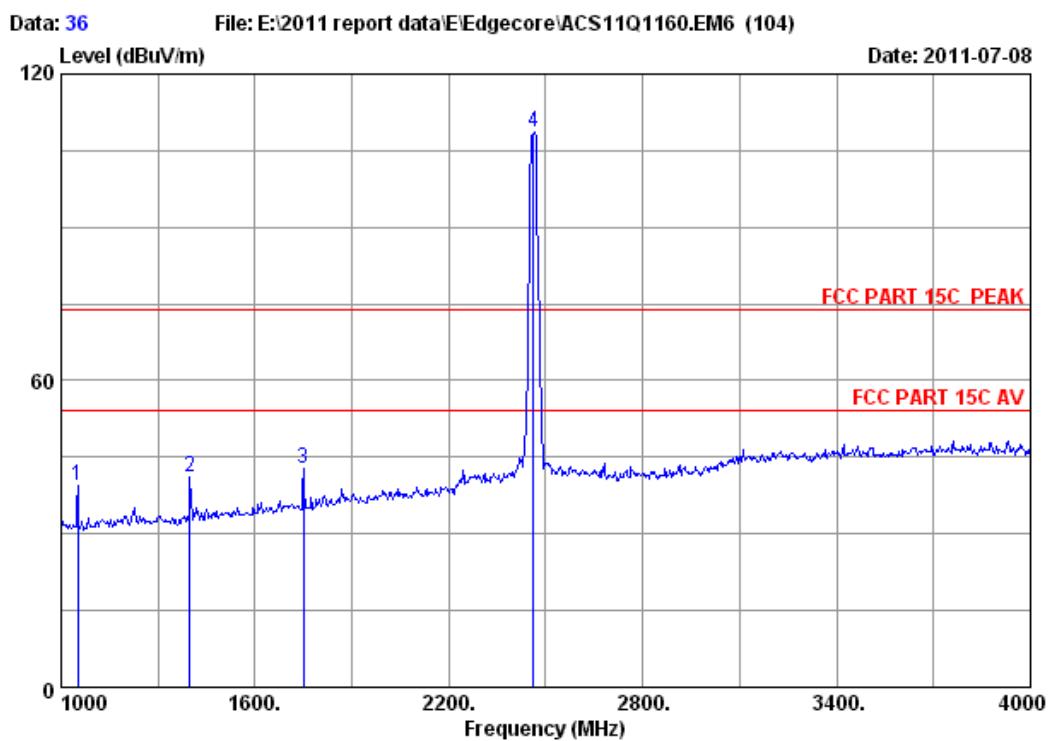
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1051.000	25.50	4.86	37.81	48.01	40.56	74.00	33.44 Peak
2	1399.000	26.19	5.50	37.18	46.79	41.30	74.00	32.70 Peak
3	1750.000	27.80	6.18	36.86	41.90	39.02	74.00	34.98 Peak
4	2462.000	29.48	7.54	36.61	93.77	94.18	74.00	-20.18 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.

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 36
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz Tx
M/N : SMCWBR14S-N5

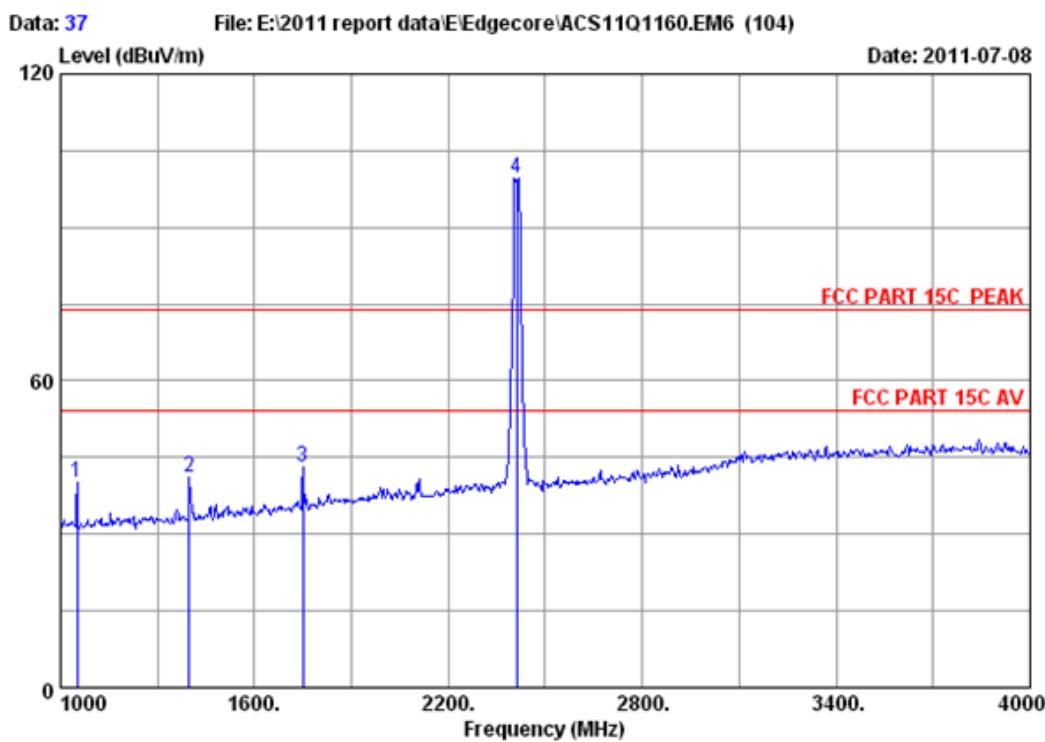
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1051.000	25.50	4.86	37.81	46.87	39.42	74.00	34.58 Peak
2	1399.000	26.19	5.50	37.18	46.70	41.21	74.00	32.79 Peak
3	1750.000	27.80	6.18	36.86	45.69	42.81	74.00	31.19 Peak
4	2462.000	29.48	7.54	36.61	108.07	108.48	74.00	-34.48 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.

FCC ID:YZKSMCWBR14SN5

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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 : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT20 CH1 2412MHz Tx
M/N : SMCWBR14S-N5

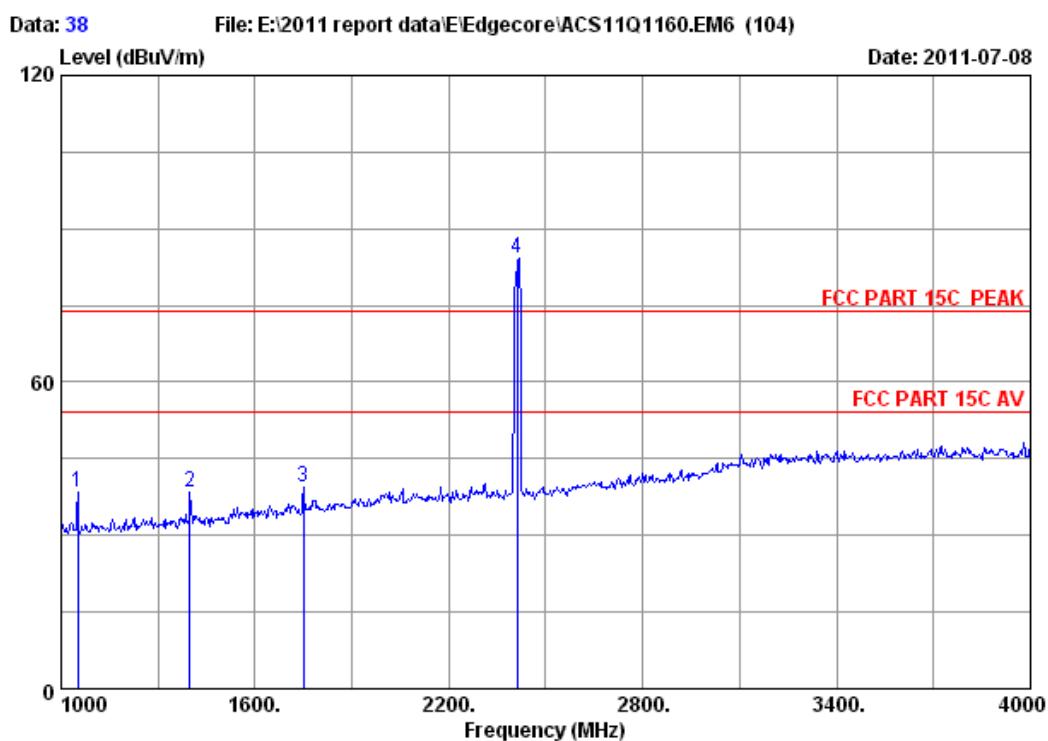
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 1051.000	25.50	4.86	37.81	47.43	39.98	74.00	34.02	Peak
2 1399.000	26.19	5.50	37.18	46.74	41.25	74.00	32.75	Peak
3 1750.000	27.80	6.18	36.86	45.94	43.06	74.00	30.94	Peak
4 2412.000	29.45	7.43	36.62	99.39	99.65	74.00	-25.65	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.

FCC ID:YZKSMCWR14SN5

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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 : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT20 CH1 2412MHz Tx
M/N : SMCWR14S-N5

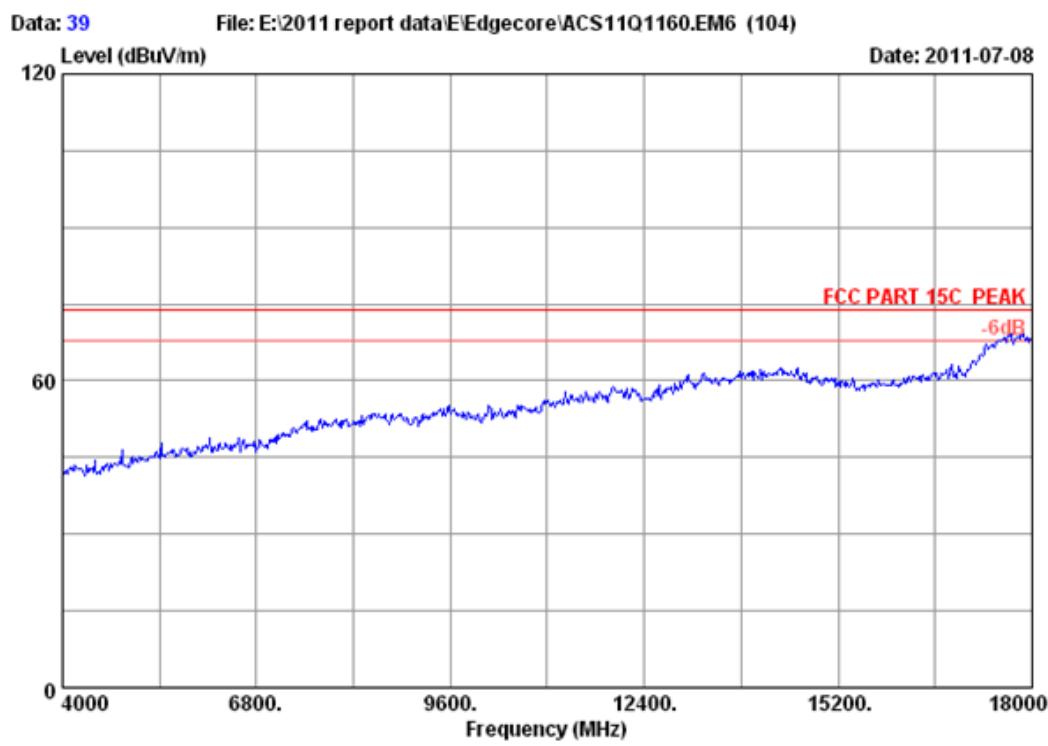
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission			
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1 1051.000	25.50	4.86	37.81	45.74	38.29	74.00	35.71 Peak
2 1399.000	26.19	5.50	37.18	43.79	38.30	74.00	35.70 Peak
3 1750.000	27.80	6.18	36.86	42.48	39.60	74.00	34.40 Peak
4 2412.000	29.45	7.43	36.62	83.83	84.09	74.00	-10.09 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.

FCC ID:YZKSMCWBR14SN5

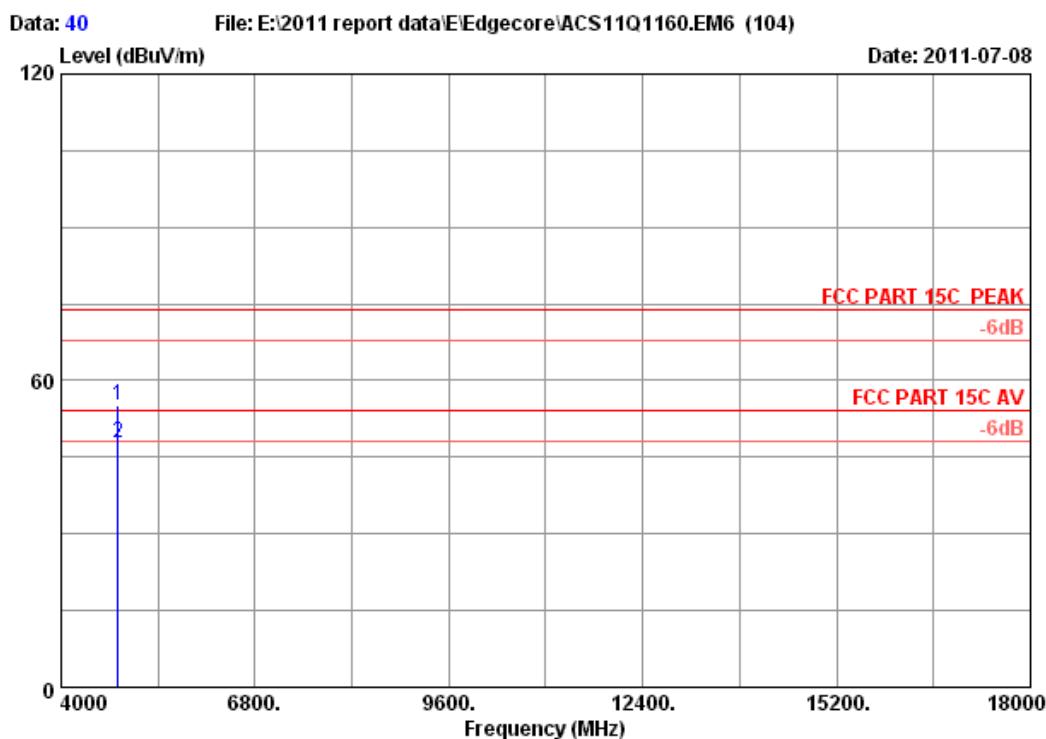
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Site no.	:	3m Chamber	Data no. :	39
Dis. / Ant.	:	3m 3115(0911)	Ant. pol. :	VERTICAL
Limit	:	FCC PART 15C PEAK		
Env. / Ins.	:	23°C/54%	Engineer :	Leo-Li
EUT	:	150 Mbps 4-port Wireless Broadband Router		
Power	:	DC 9V From Adapter input AC 120V/60Hz		
Test mode	:	IEEE802.11nHT20 CH1 2412MHz Tx		
M/N	:	SMCWBR14S-N5		

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 40
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT20 CH1 2412MHz Tx
M/N : SMCWBR14S-N5

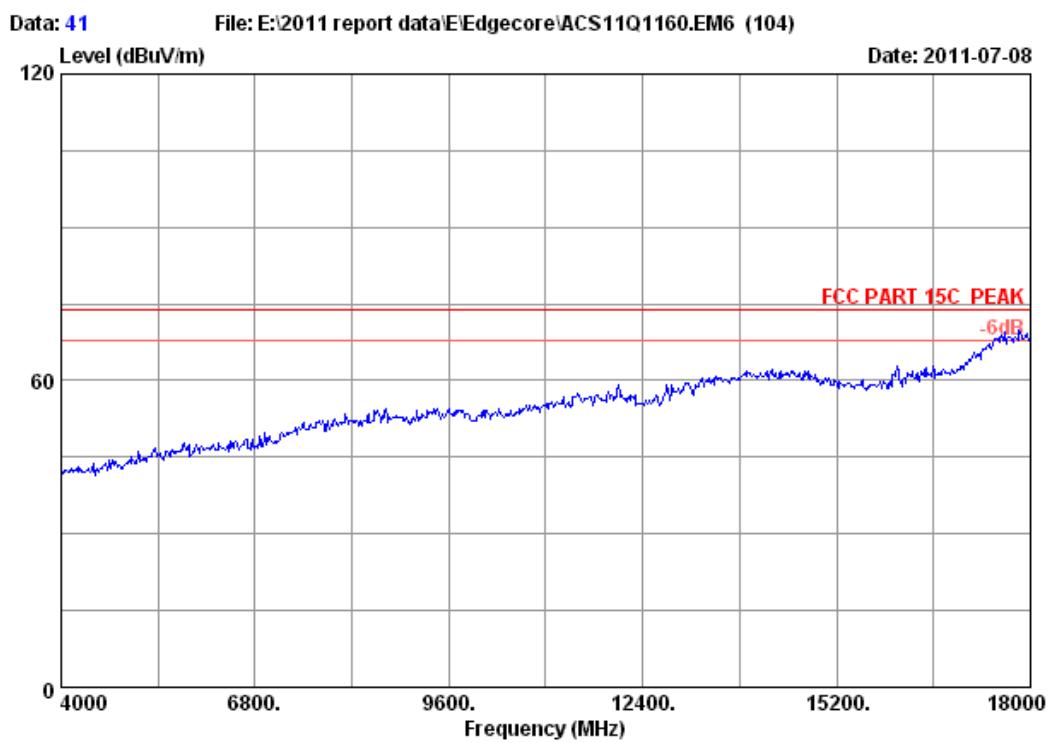
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4824.000	34.32	10.64	35.08	45.33	55.21	74.00	18.79 Peak
2	4824.000	34.32	10.64	35.08	37.86	47.74	54.00	6.26 Average

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.

FCC ID:YZKSMCWR14SN5

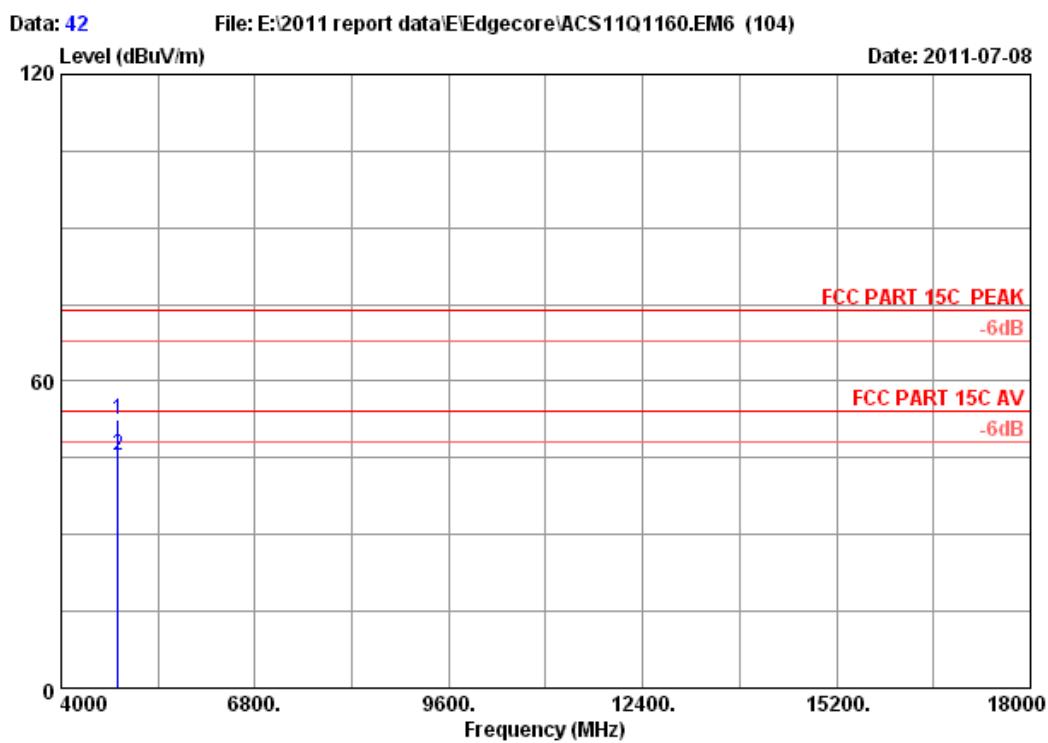
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Site no. : 3m Chamber Data no. : 41
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT20 CH1 2412MHz Tx
M/N : SMCWBR14S-N5

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 42
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT20 CH1 2412MHz Tx
M/N : SMCWBR14S-N5

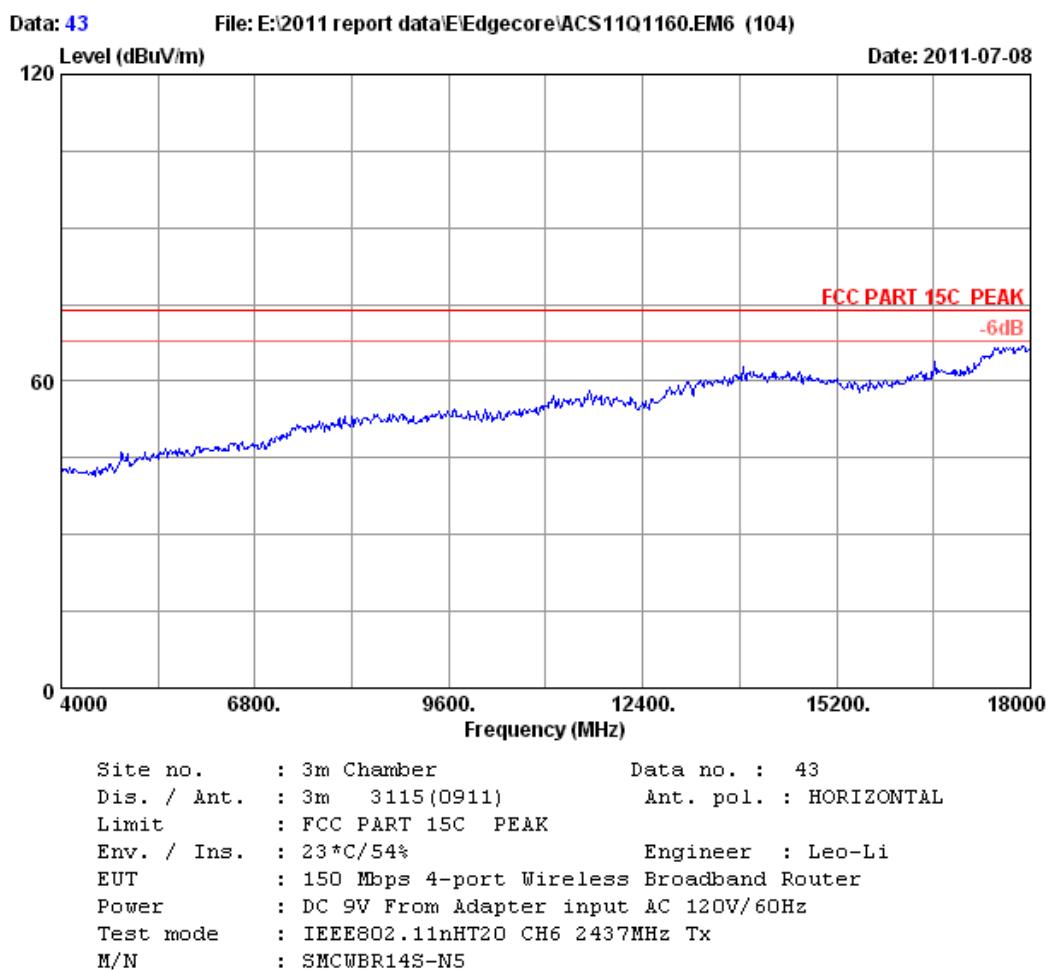
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4824.000	34.32	10.64	35.08	42.66	52.54	74.00	21.46 Peak
2	4824.000	34.32	10.64	35.08	35.48	45.36	54.00	8.64 Average

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.

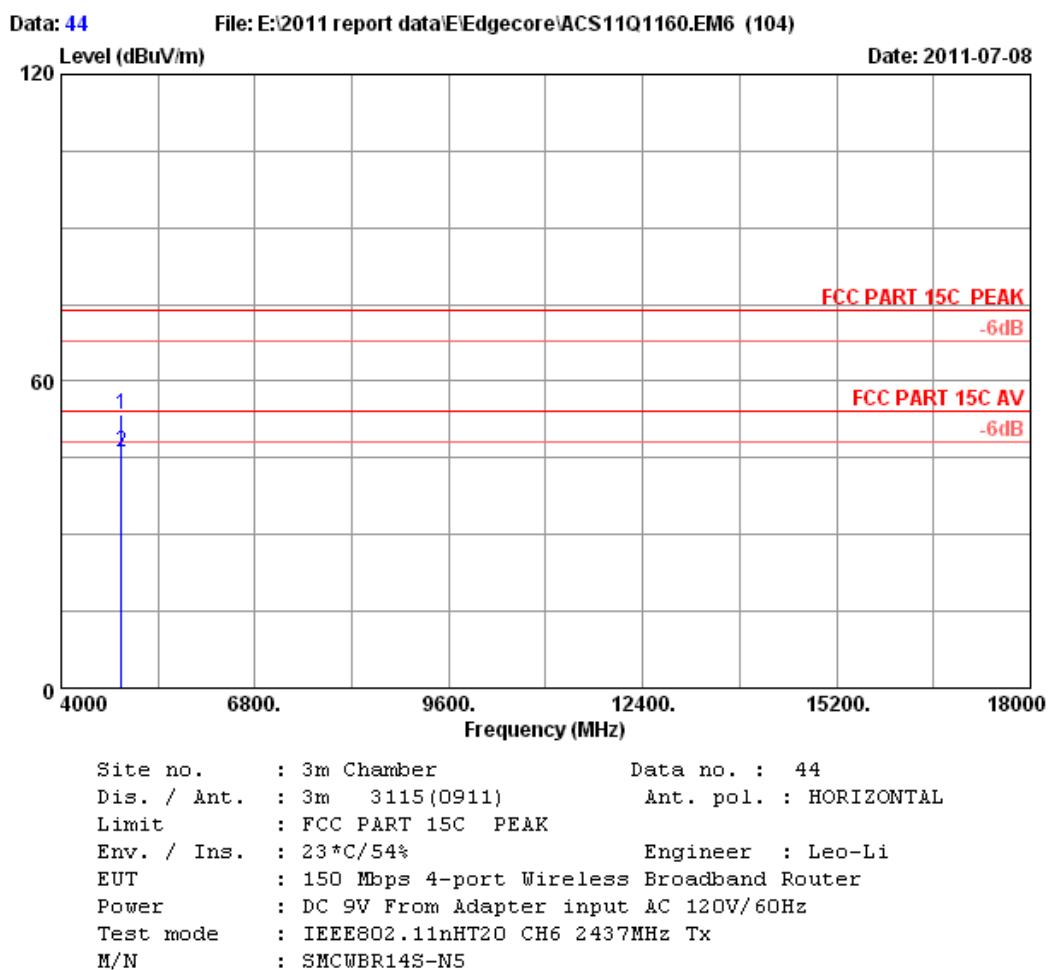
FCC ID:YZKSMCWBR14SN5

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FCC ID:YZKSMCWR14SN5

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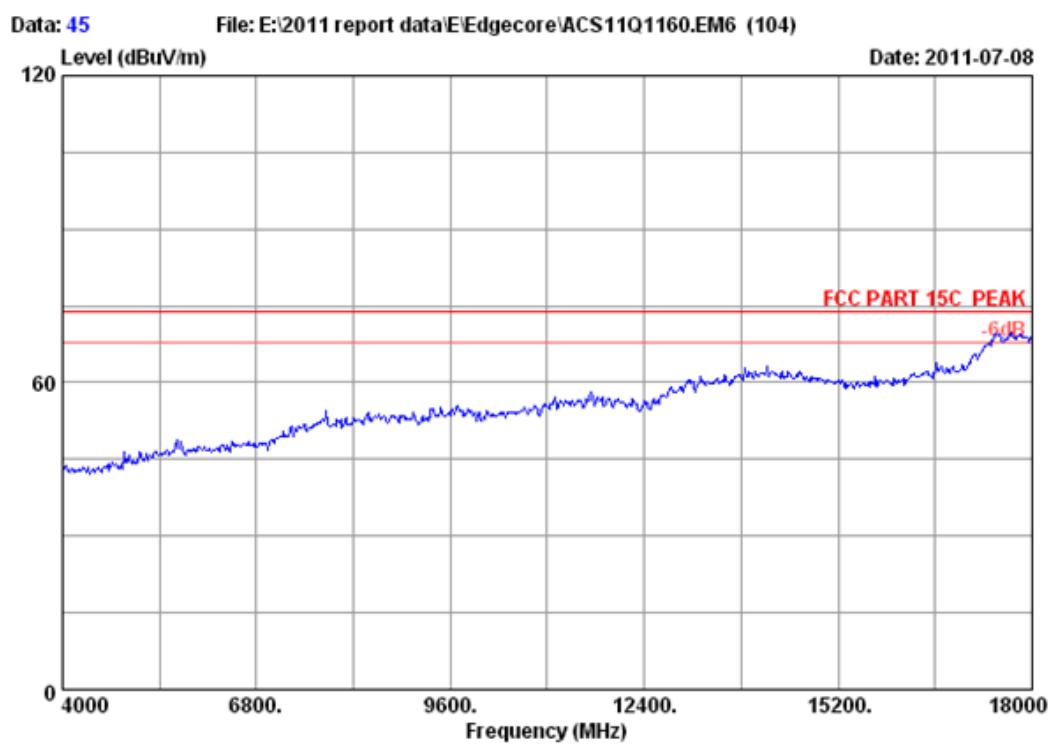
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4874.000	34.41	10.69	35.03	43.26	53.33	74.00	20.67 Peak
2	4874.000	34.41	10.69	35.03	36.14	46.21	54.00	7.79 Average

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.

FCC ID:YZKSMCWR14SN5

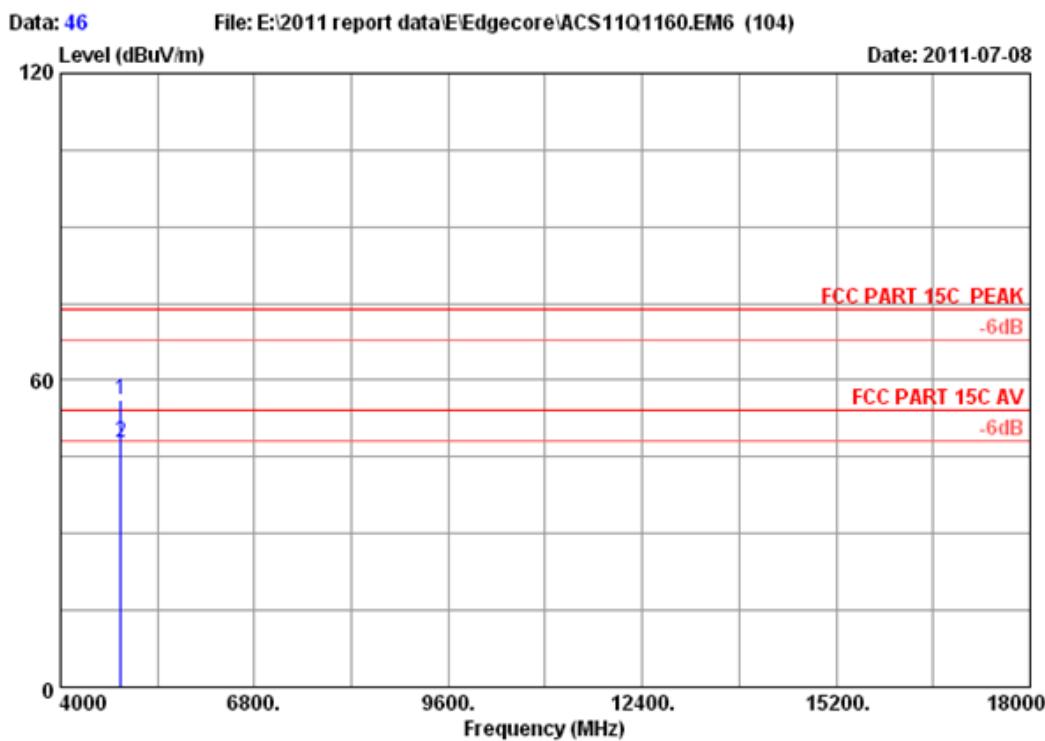
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Site no. : 3m Chamber Data no. : 45
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT20 CH6 2437MHz Tx
M/N : SMCWR14S-N5

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 46
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT20 CH6 2437MHz Tx
M/N : SMCWR14S-N5

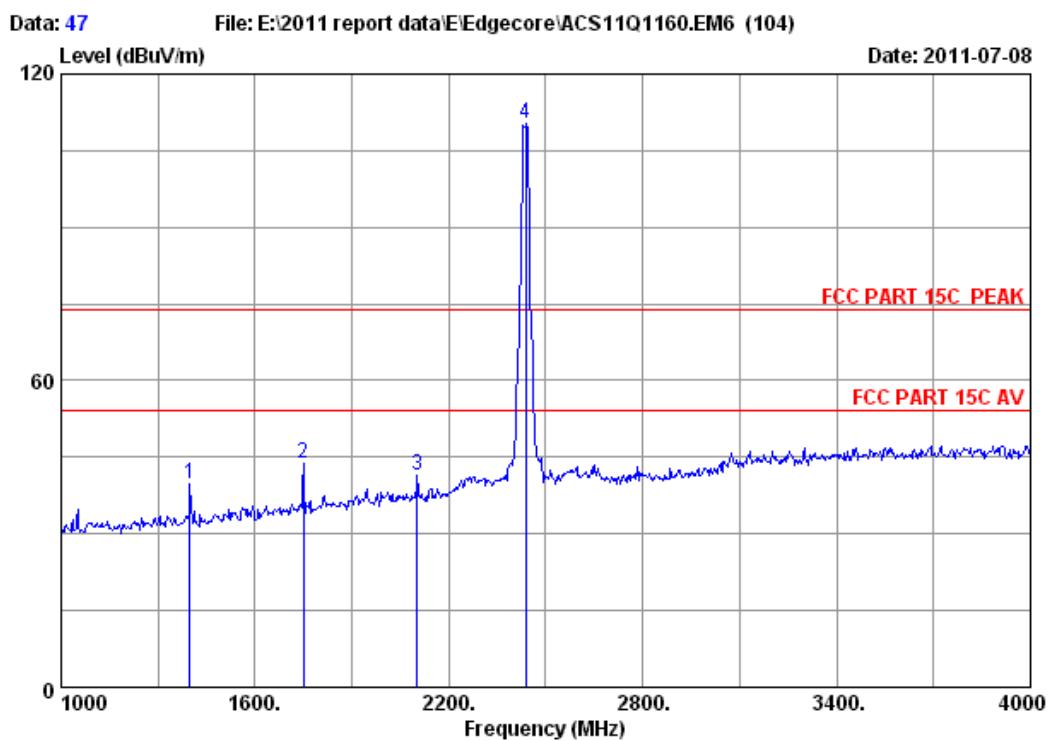
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4874.000	34.41	10.69	35.03	46.25	56.32	74.00	17.68 Peak
2	4874.000	34.41	10.69	35.03	37.84	47.91	54.00	6.09 Average

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.

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 47
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT20 CH6 2437MHz Tx
M/N : SMCWBR14S-N5

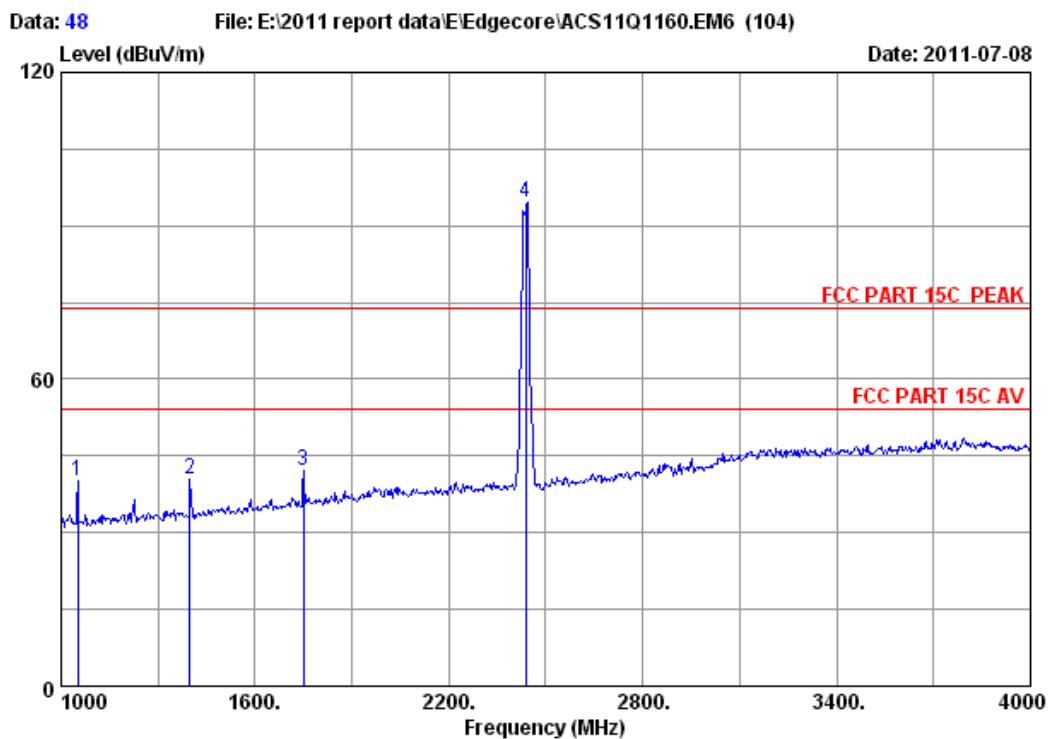
Freq. (MHz)	Factor (dB/m)	Ant. loss (dB)	Cable Factor (dB)	Amp. Factor (dB)	Emission			
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1 1399.000	26.19	5.50	37.18	45.26	39.77	74.00	34.23	Peak
2 1750.000	27.80	6.18	36.86	46.52	43.64	74.00	30.36	Peak
3 2101.000	29.26	6.86	36.68	41.86	41.30	74.00	32.70	Peak
4 2437.000	29.47	7.46	36.61	109.87	110.19	74.00	-36.19	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.

FCC ID:YZKSMCWR14SN5

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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 : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT20 CH6 2437MHz Tx
M/N : SMCWBR14S-N5

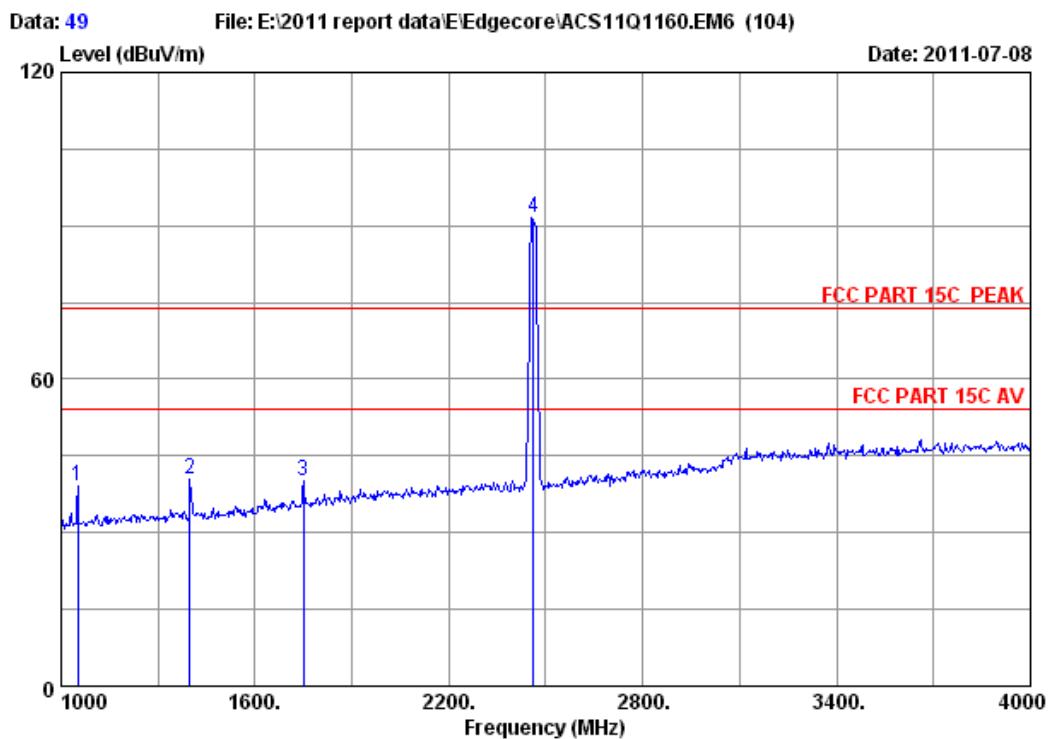
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1051.000	25.50	4.86	37.81	47.59	40.14	74.00	33.86 Peak
2	1399.000	26.19	5.50	37.18	45.91	40.42	74.00	33.58 Peak
3	1750.000	27.80	6.18	36.86	44.95	42.07	74.00	31.93 Peak
4	2437.000	29.47	7.46	36.61	94.27	94.59	74.00	-20.59 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.

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 49
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT20 CH11 2462MHz Tx
M/N : SMCWBR14S-N5

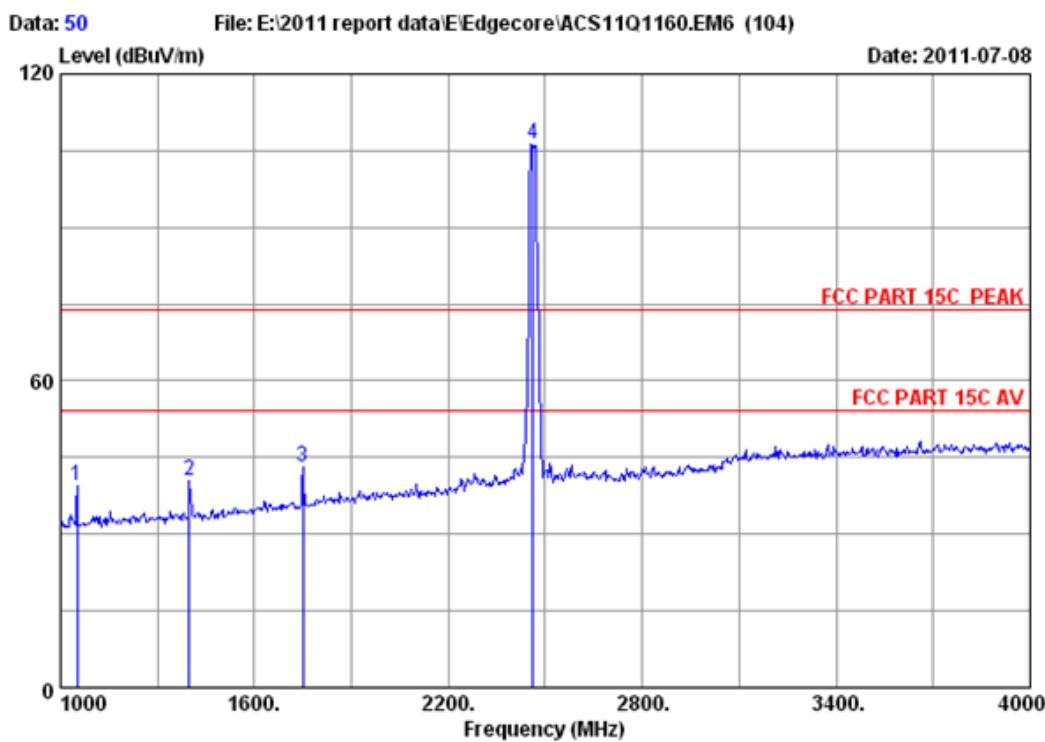
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission			
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1 1051.000	25.50	4.86	37.81	46.62	39.17	74.00	34.83 Peak
2 1399.000	26.19	5.50	37.18	45.85	40.36	74.00	33.64 Peak
3 1750.000	27.80	6.18	36.86	42.92	40.04	74.00	33.96 Peak
4 2462.000	29.48	7.54	36.61	91.28	91.69	74.00	-17.69 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.

FCC ID:YZKSMCWBR14SN5

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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 : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT20 CH11 2462MHz Tx
M/N : SMCWBR14S-N5

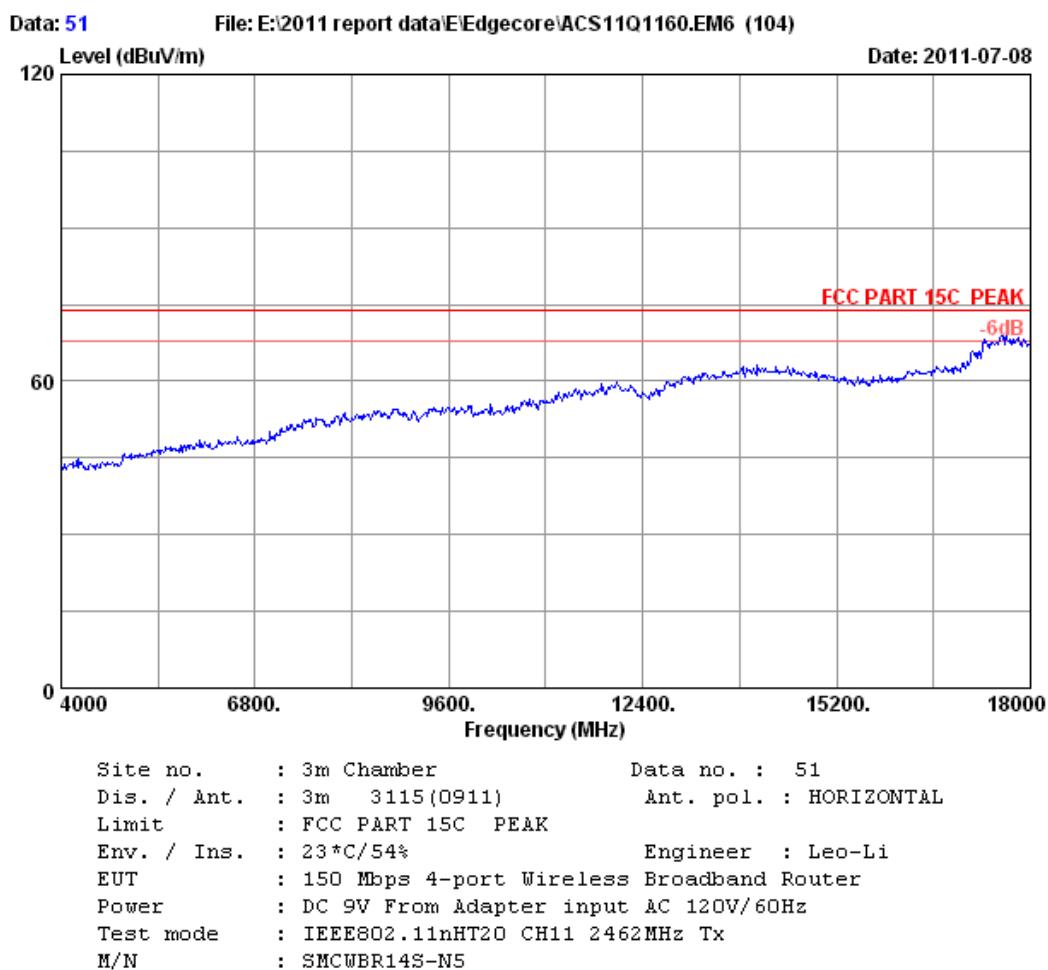
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 1051.000	25.50	4.86	37.81	47.06	39.61	74.00	34.39	Peak
2 1399.000	26.19	5.50	37.18	45.85	40.36	74.00	33.64	Peak
3 1750.000	27.80	6.18	36.86	46.14	43.26	74.00	30.74	Peak
4 2462.000	29.48	7.54	36.61	105.85	106.26	74.00	-32.26	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.

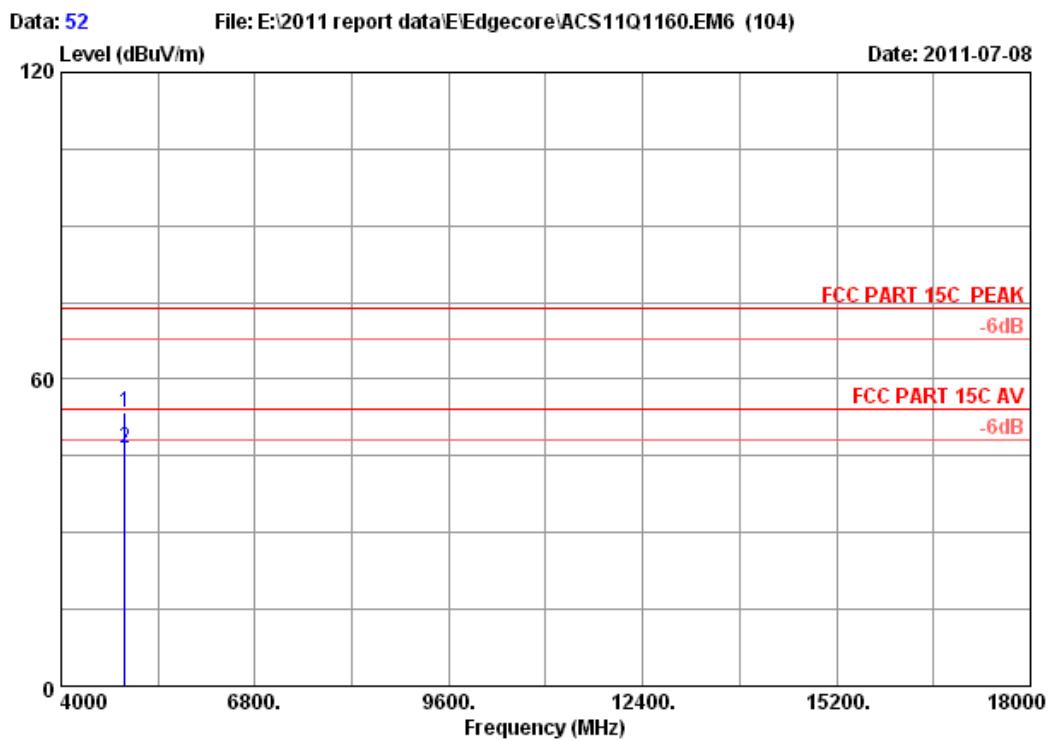
FCC ID:YZKSMCWR14SN5

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FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 52
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT20 CH11 2462MHz Tx
M/N : SMCWBR14S-N5

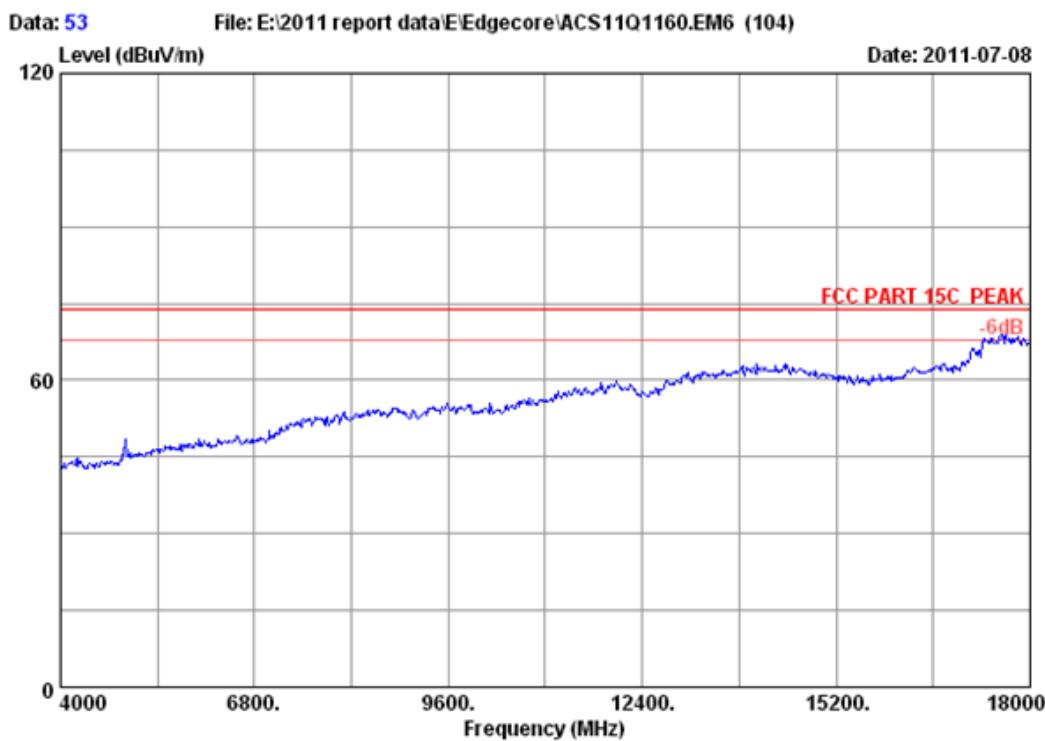
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4924.000	34.49	10.76	34.98	43.26	53.53	74.00	20.47 Peak
2	4924.000	34.49	10.76	34.98	36.14	46.41	54.00	7.59 Average

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.

FCC ID:YZKSMCWBR14SN5

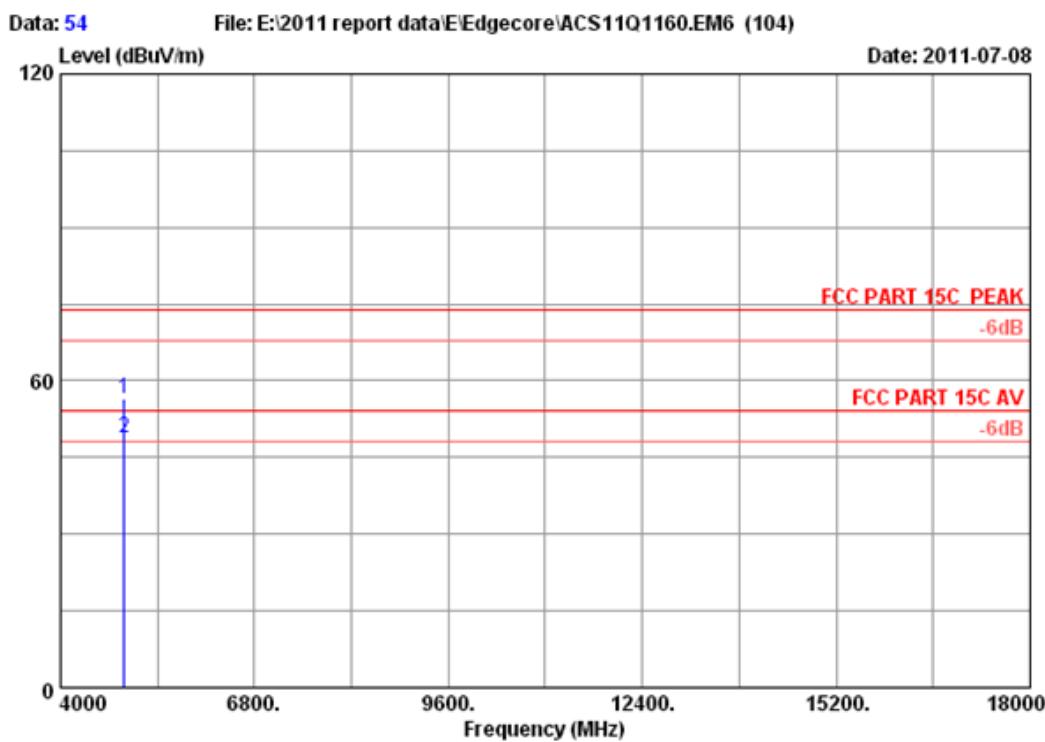
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Site no. : 3m Chamber Data no. : 53
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT20 CH11 2462MHz Tx
M/N : SMCWBR14S-N5

FCC ID:YZKSMCWBR14SN5

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Site no. : 3m Chamber Data no. : 54
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT20 CH11 2462MHz Tx
M/N : SMCWBR14S-N5

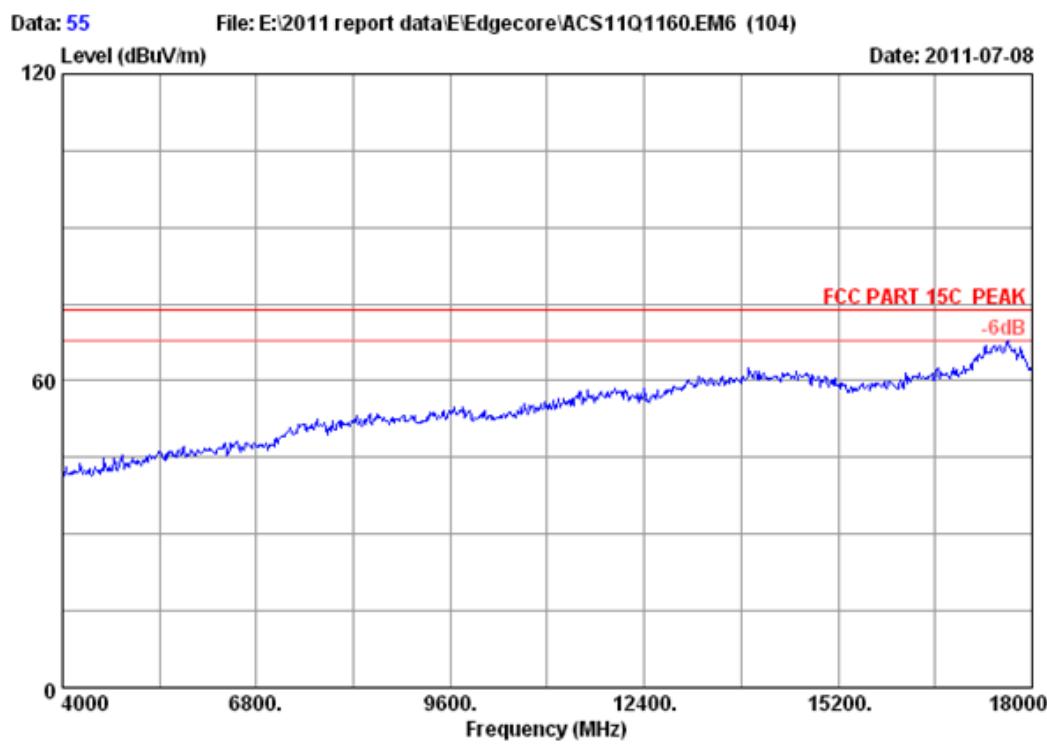
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4924.000	34.49	10.76	34.98	46.25	56.52	74.00	17.48 Peak
2	4924.000	34.49	10.76	34.98	38.47	48.74	54.00	5.26 Average

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.

FCC ID:YZKSMCWBR14SN5

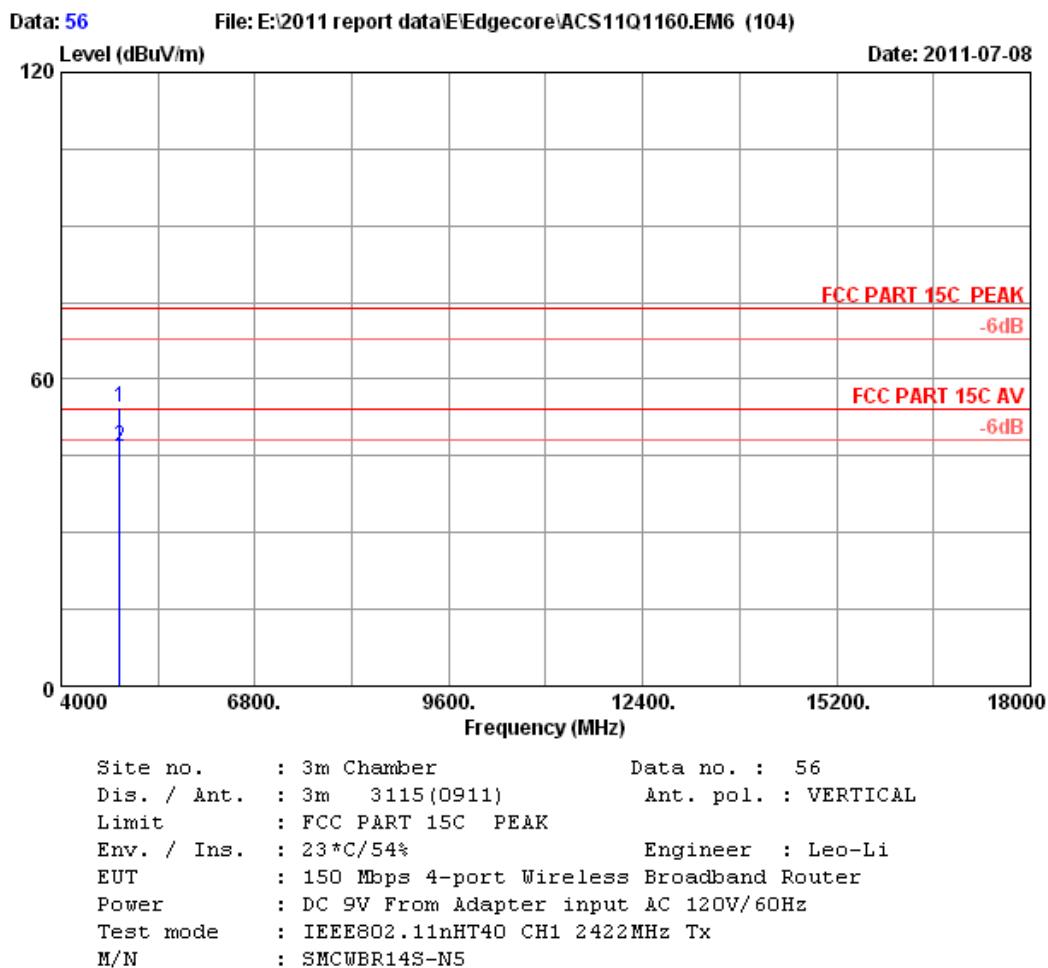
page 4-61



Site no. : 3m Chamber Data no. : 55
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT40 CH1 2422MHz Tx
M/N : SMCWBR14S-N5

FCC ID:YZKSMCWR14SN5

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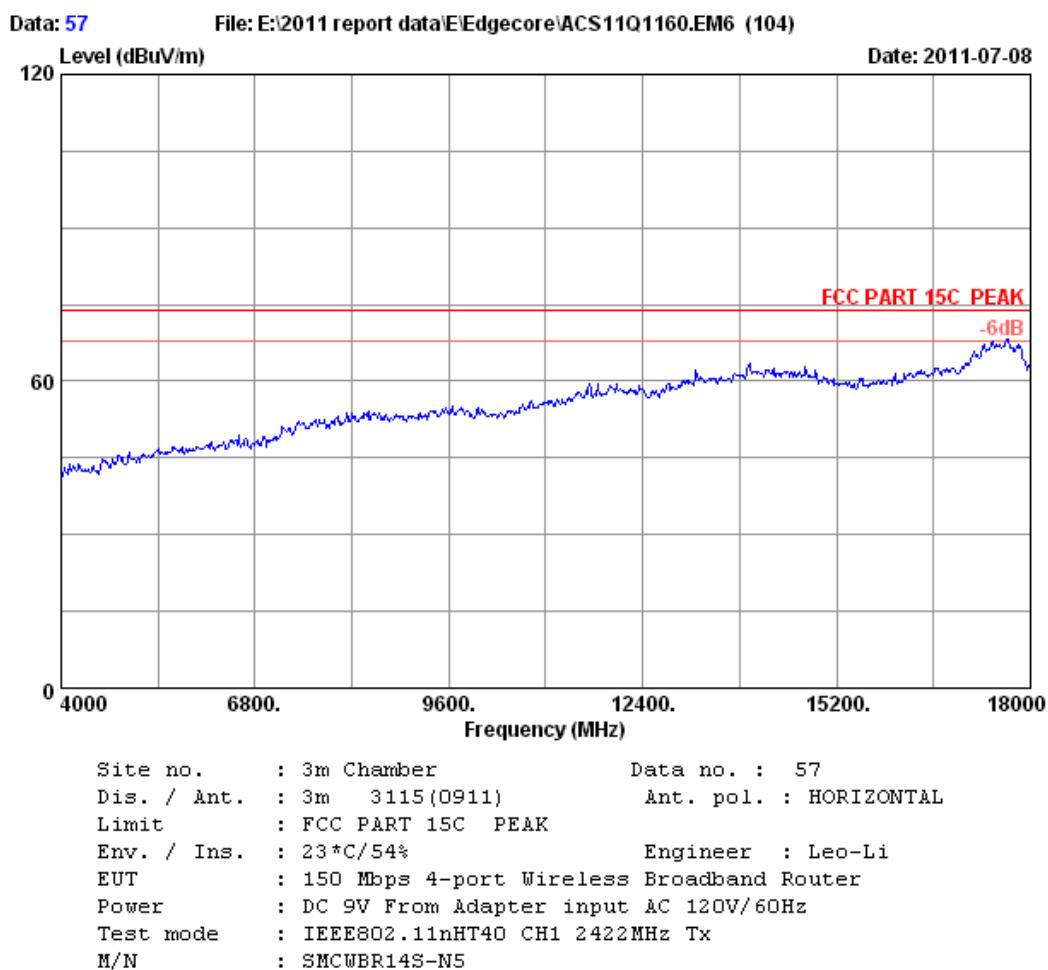
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4844.000	34.35	10.67	35.05	44.63	54.60	74.00	19.40 Peak
2	4844.000	34.35	10.67	35.05	36.98	46.95	54.00	7.05 Average

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.

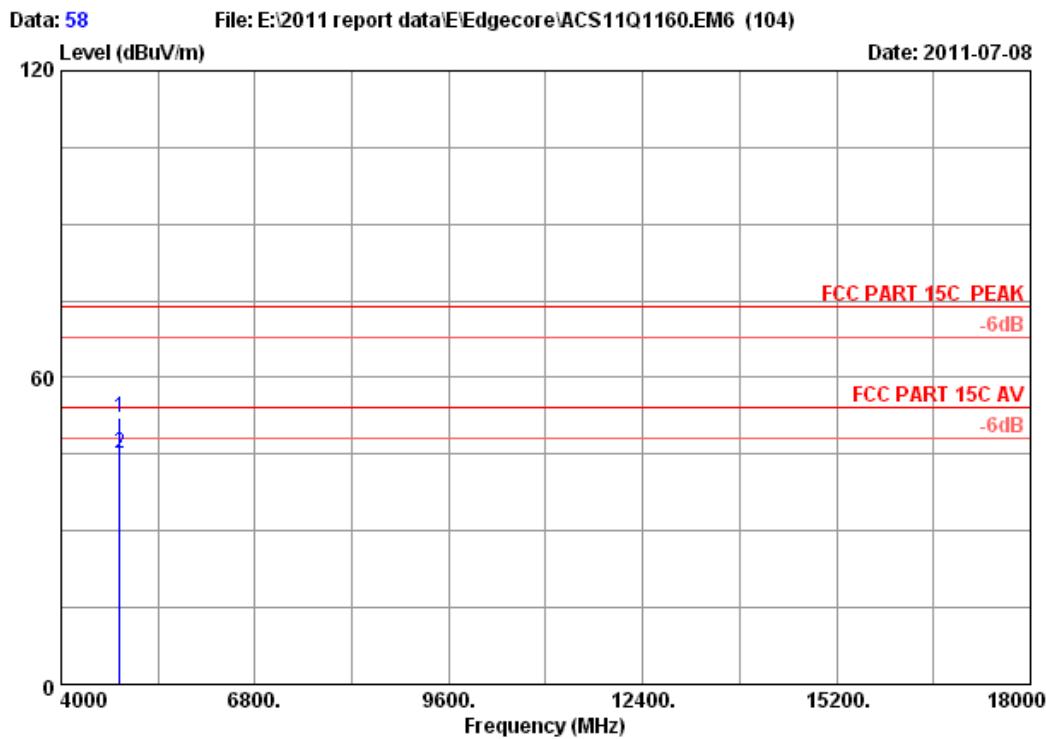
FCC ID:YZKSMCWBR14SN5

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FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 58
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT40 CH1 2422MHz Tx
M/N : SMCWBR14S-N5

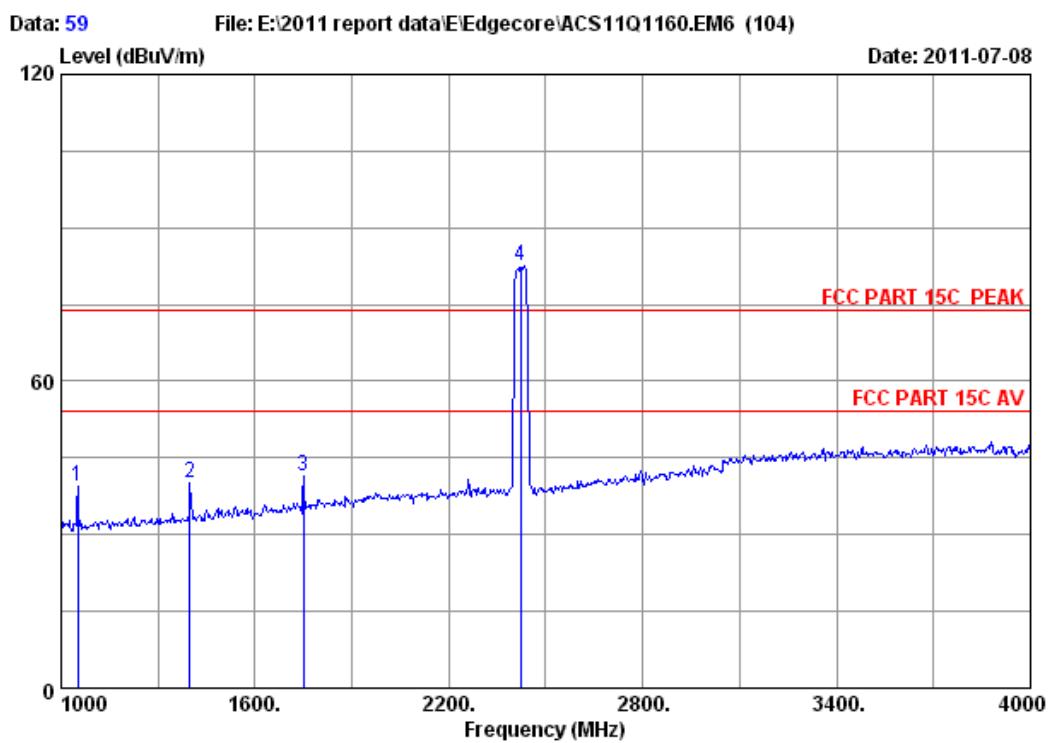
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4844.000	34.35	10.67	35.05	42.32	52.29	74.00	21.71 Peak
2	4844.000	34.35	10.67	35.05	35.17	45.14	54.00	8.86 Average

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.

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 59
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT40 CH1 2422MHz Tx
M/N : SMCWBR14S-N5

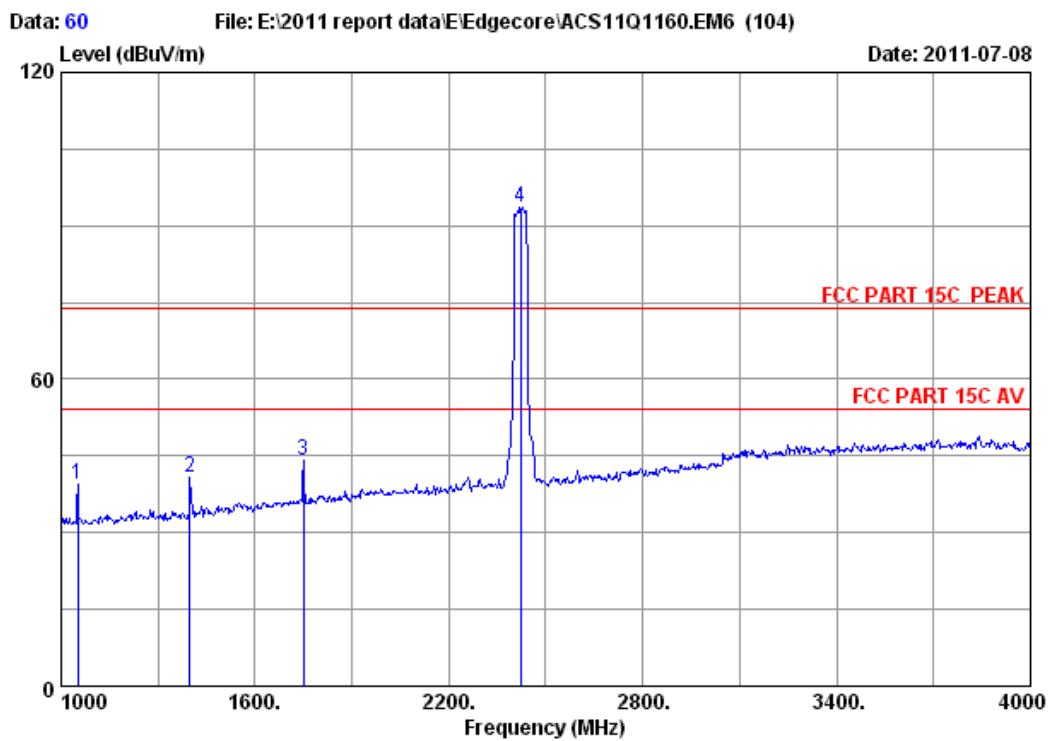
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1051.000	25.50	4.86	37.81	46.77	39.32	74.00	34.68 Peak
2	1399.000	26.19	5.50	37.18	45.71	40.22	74.00	33.78 Peak
3	1750.000	27.80	6.18	36.86	44.41	41.53	74.00	32.47 Peak
4	2422.000	29.46	7.46	36.61	82.37	82.68	74.00	-8.68 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.

FCC ID:YZKSMCWR14SN5

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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 : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT40 CH1 2422MHz Tx
M/N : SMCWBR14S-N5

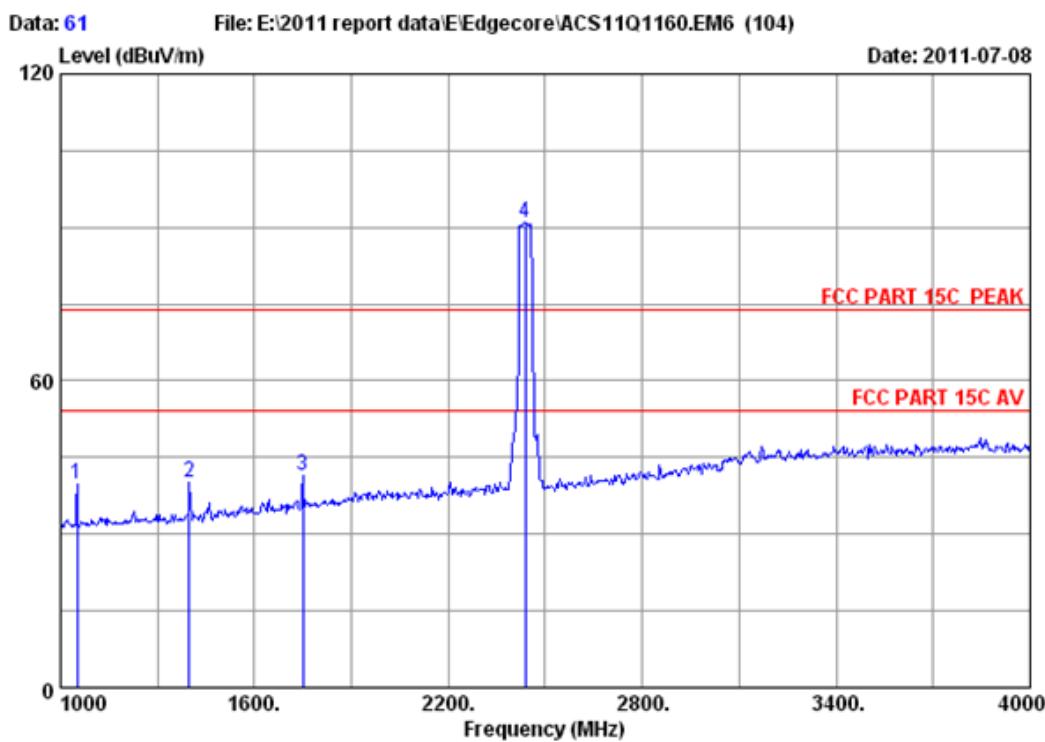
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1051.000	25.50	4.86	37.81	46.77	39.32	74.00	34.68 Peak
2	1399.000	26.19	5.50	37.18	46.38	40.89	74.00	33.11 Peak
3	1750.000	27.80	6.18	36.86	46.88	44.00	74.00	30.00 Peak
4	2422.000	29.46	7.46	36.61	93.20	93.51	74.00	-19.51 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.

FCC ID:YZKSMCWBRI4SN5

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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 : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT40 CH4 2437MHz Tx
M/N : SMCWBRI4S-N5

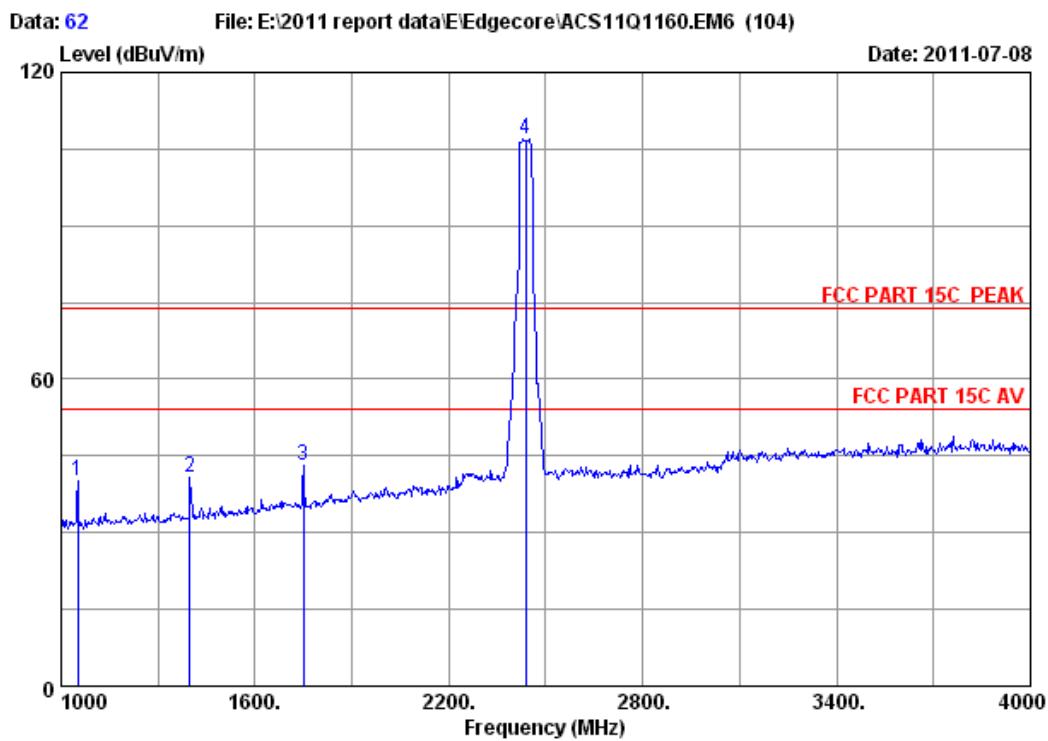
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 1051.000	25.50	4.86	37.81	47.14	39.69	74.00	34.31	Peak
2 1399.000	26.19	5.50	37.18	45.65	40.16	74.00	33.84	Peak
3 1750.000	27.80	6.18	36.86	44.36	41.48	74.00	32.52	Peak
4 2437.000	29.47	7.46	36.61	90.52	90.84	74.00	-16.84	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.

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 62
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT40 CH4 2437MHz Tx
M/N : SMCWBR14S-N5

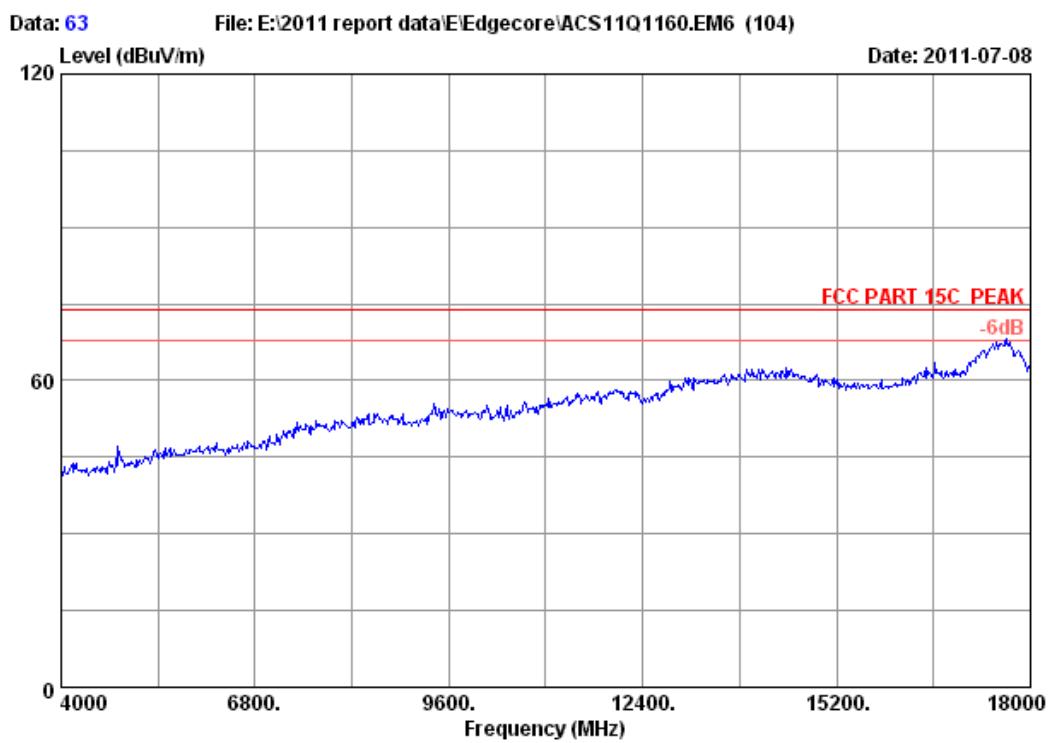
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1051.000	25.50	4.86	37.81	47.56	40.11	74.00	33.89 Peak
2	1399.000	26.19	5.50	37.18	46.23	40.74	74.00	33.26 Peak
3	1750.000	27.80	6.18	36.86	45.98	43.10	74.00	30.90 Peak
4	2437.000	29.47	7.46	36.61	106.68	107.00	74.00	-33.00 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.

FCC ID:YZKSMCWBR14SN5

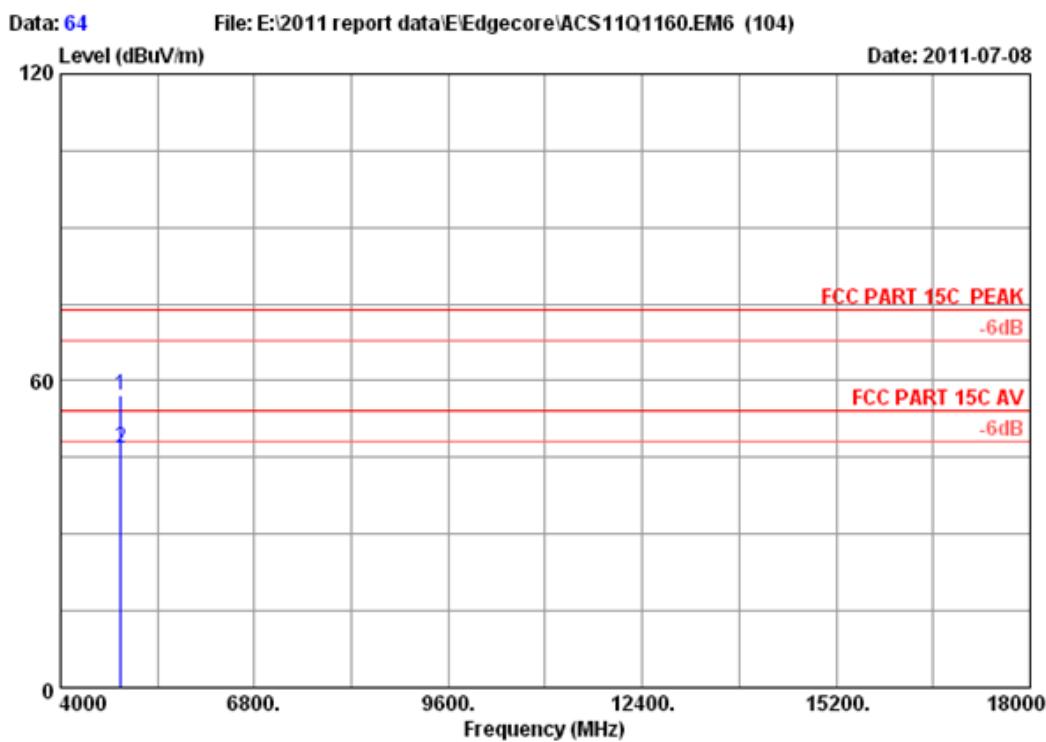
page 4-69



Site no. : 3m Chamber Data no. : 63
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT40 CH4 2437MHz Tx
M/N : SMCWBR14S-N5

FCC ID:YZKSMCWBR14SN5

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Site no. : 3m Chamber Data no. : 64
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT40 CH4 2437MHz Tx
M/N : SMCWBR14S-N5

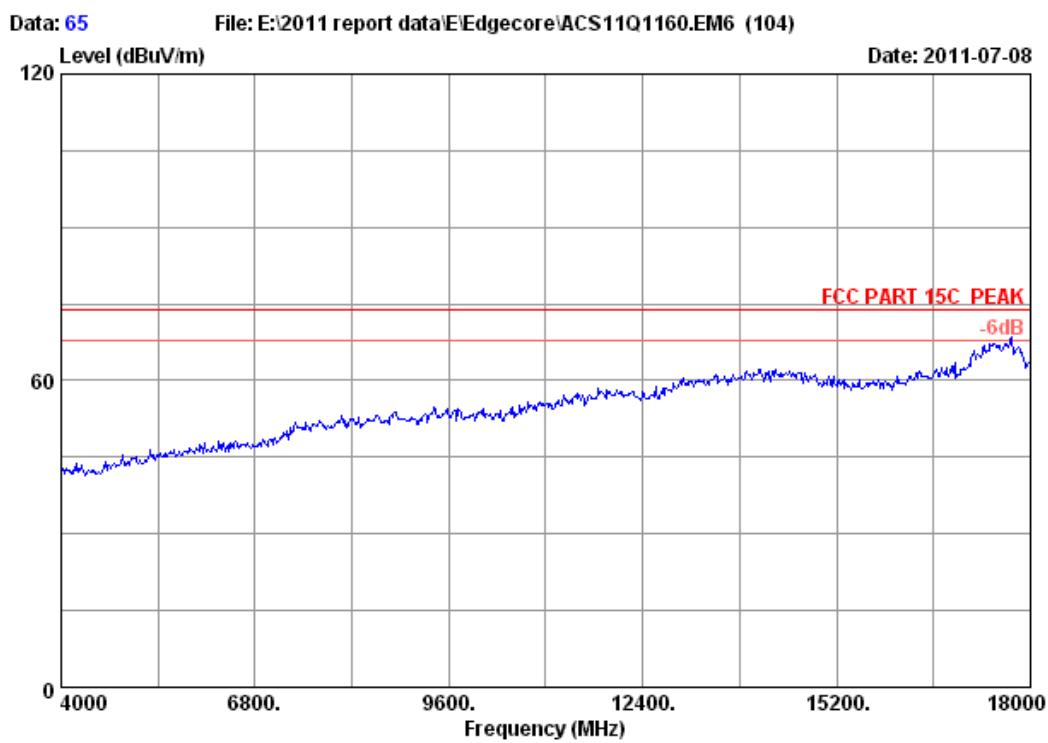
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission			
					Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 4874.000	34.41	10.69	35.03	46.98	57.05	74.00	16.95	Peak
2 4874.000	34.41	10.69	35.03	36.78	46.85	54.00	7.15	Average

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.

FCC ID:YZKSMCWBR14SN5

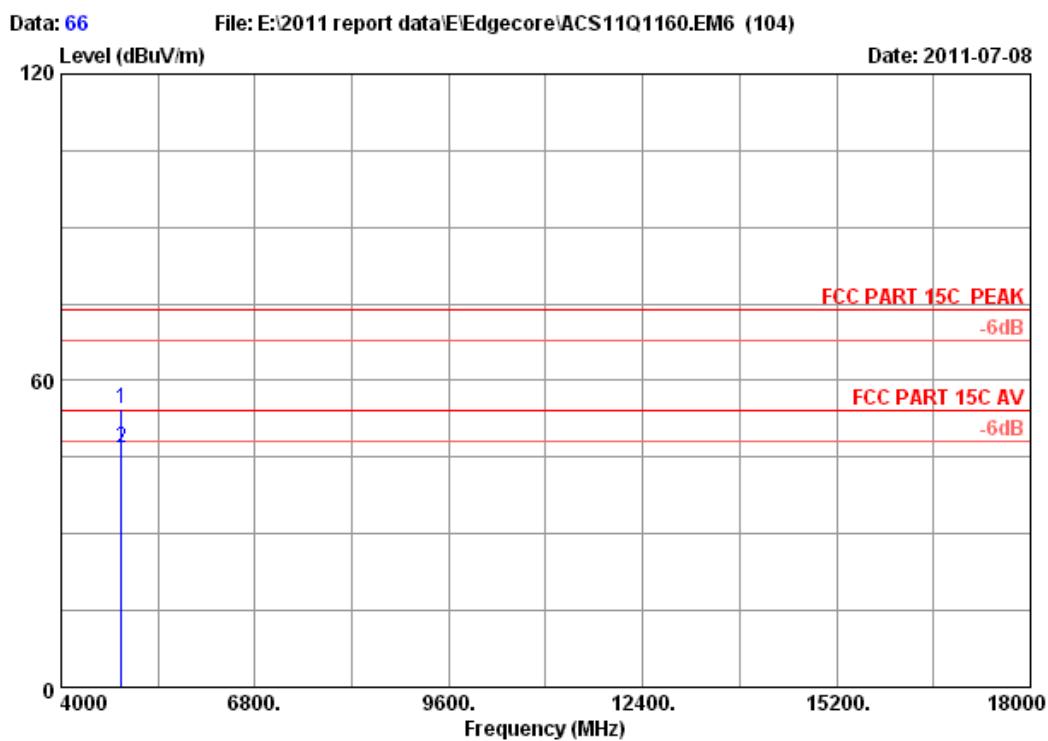
page 4-71



Site no. : 3m Chamber Data no. : 65
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT40 CH4 2437MHz Tx
M/N : SMCWBR14S-N5

FCC ID:YZKSMCWR14SN5

page 4-72



Site no. : 3m Chamber Data no. : 66
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT40 CH4 2437MHz Tx
M/N : SMCWBR14S-N5

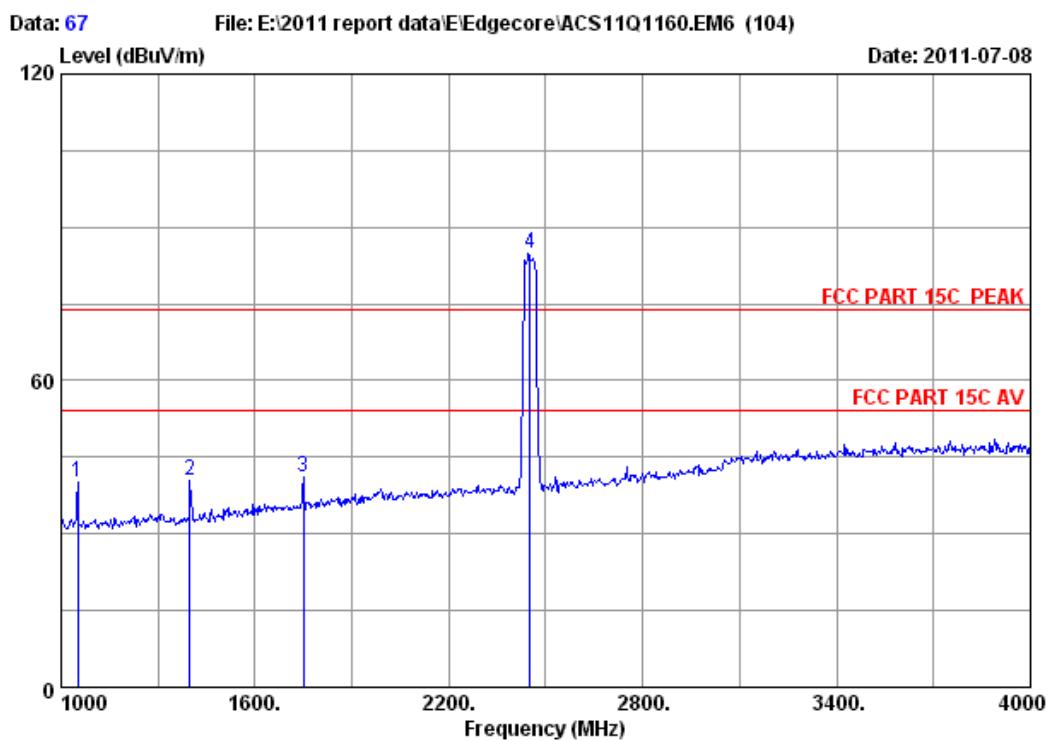
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4874.000	34.41	10.69	35.03	44.36	54.43	74.00	19.57 Peak
2	4874.000	34.41	10.69	35.03	36.84	46.91	54.00	7.09 Average

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.

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 67
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT40 CH7 2452MHz Tx
M/N : SMCWBR14S-N5

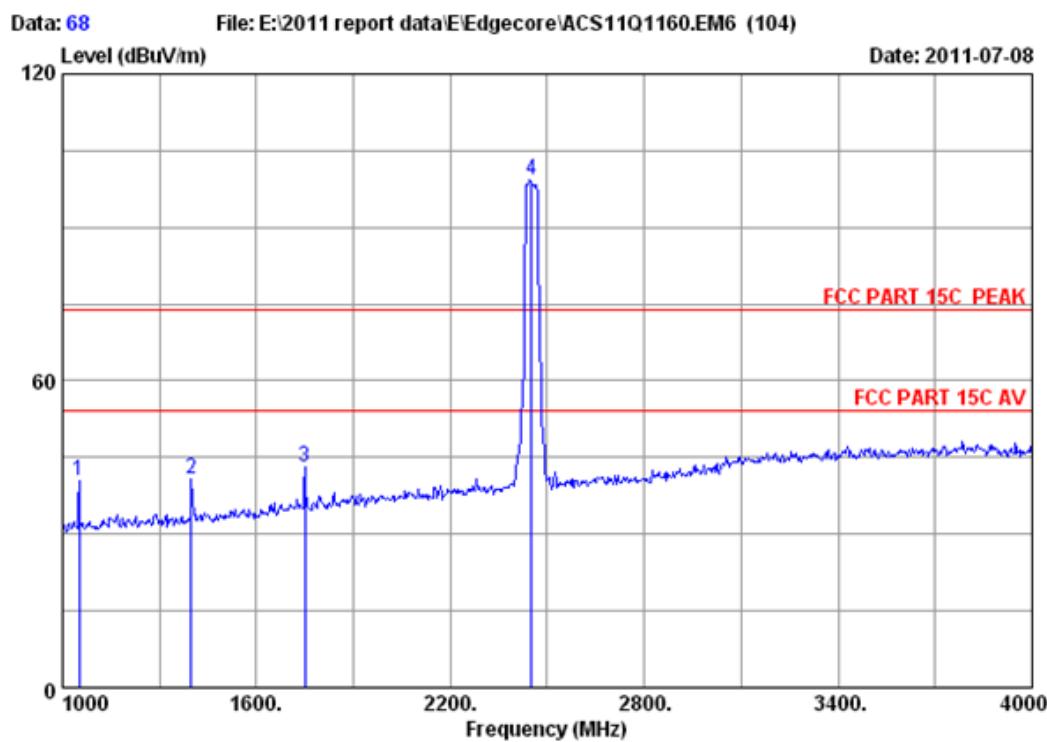
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 1051.000	25.50	4.86	37.81	47.50	40.05	74.00	33.95	Peak
2 1399.000	26.19	5.50	37.18	45.92	40.43	74.00	33.57	Peak
3 1750.000	27.80	6.18	36.86	44.15	41.27	74.00	32.73	Peak
4 2452.000	29.47	7.50	36.61	84.62	84.98	74.00	-10.98	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.

FCC ID:YZKSMCWBR14SN5

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Site no. : 3m Chamber Data no. : 68
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT40 CH7 2452MHz Tx
M/N : SMCWBR14S-N5

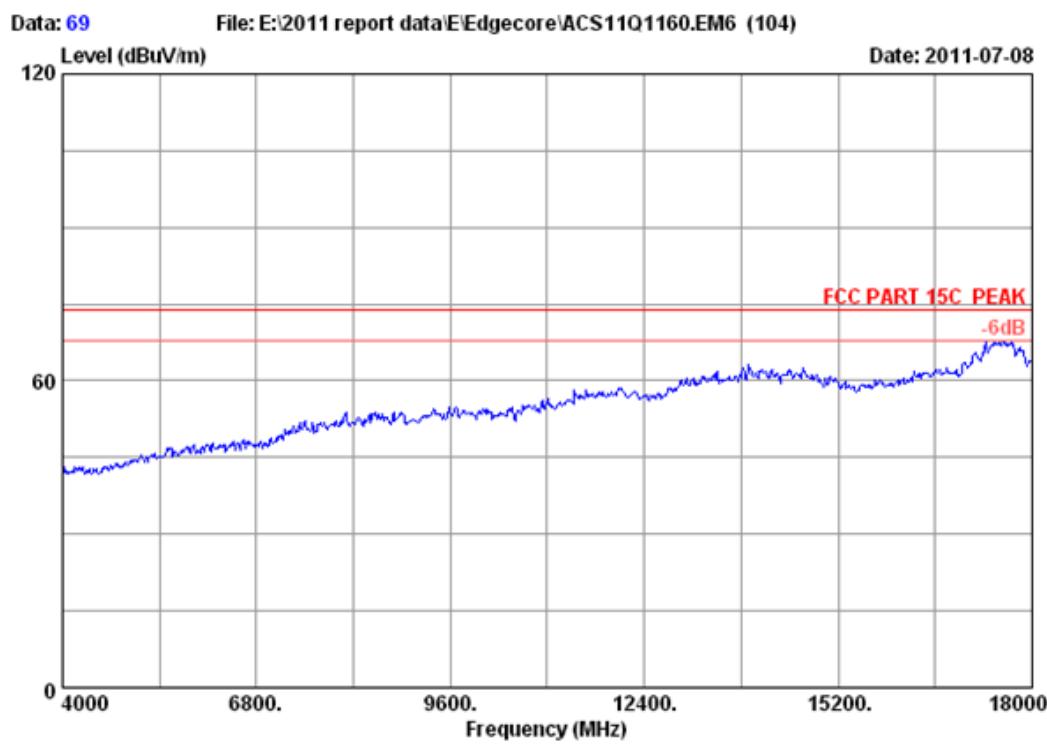
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 1051.000	25.50	4.86	37.81	47.75	40.30	74.00	33.70	Peak
2 1399.000	26.19	5.50	37.18	46.34	40.85	74.00	33.15	Peak
3 1750.000	27.80	6.18	36.86	46.06	43.18	74.00	30.82	Peak
4 2452.000	29.47	7.50	36.61	98.80	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.

FCC ID:YZKSMCWR14SN5

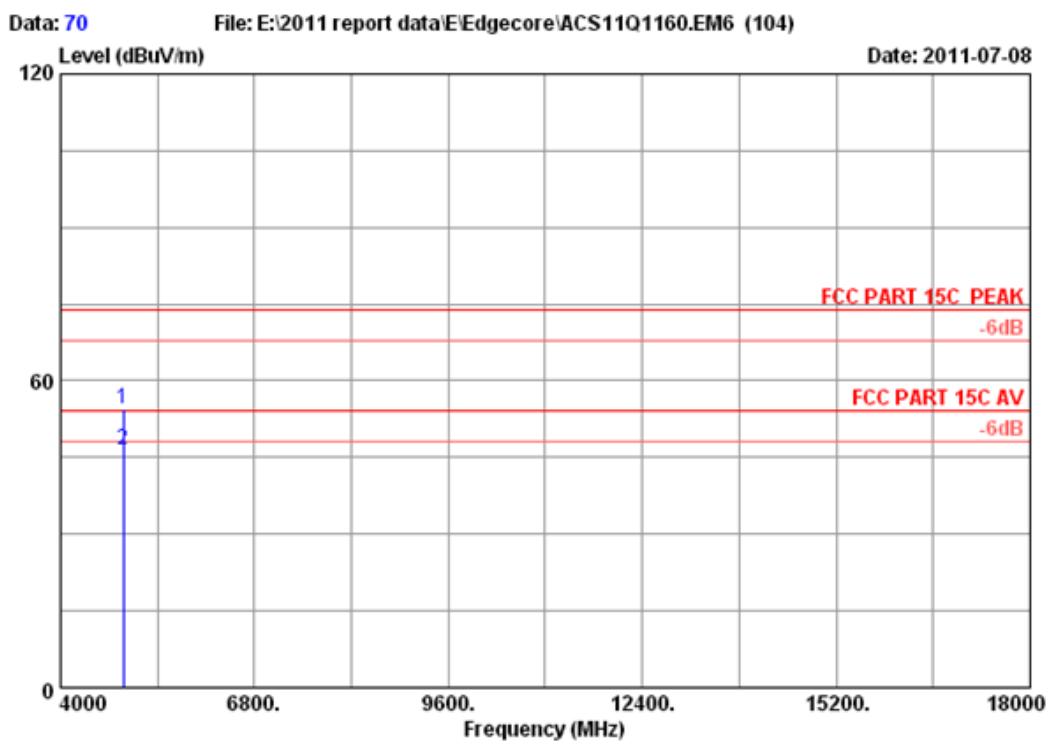
page 4-75



Site no. : 3m Chamber Data no. : 69
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT40 CH7 2452MHz Tx
M/N : SMCWR14S-N5

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 70
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT40 CH7 2452MHz Tx
M/N : SMCWBR14S-N5

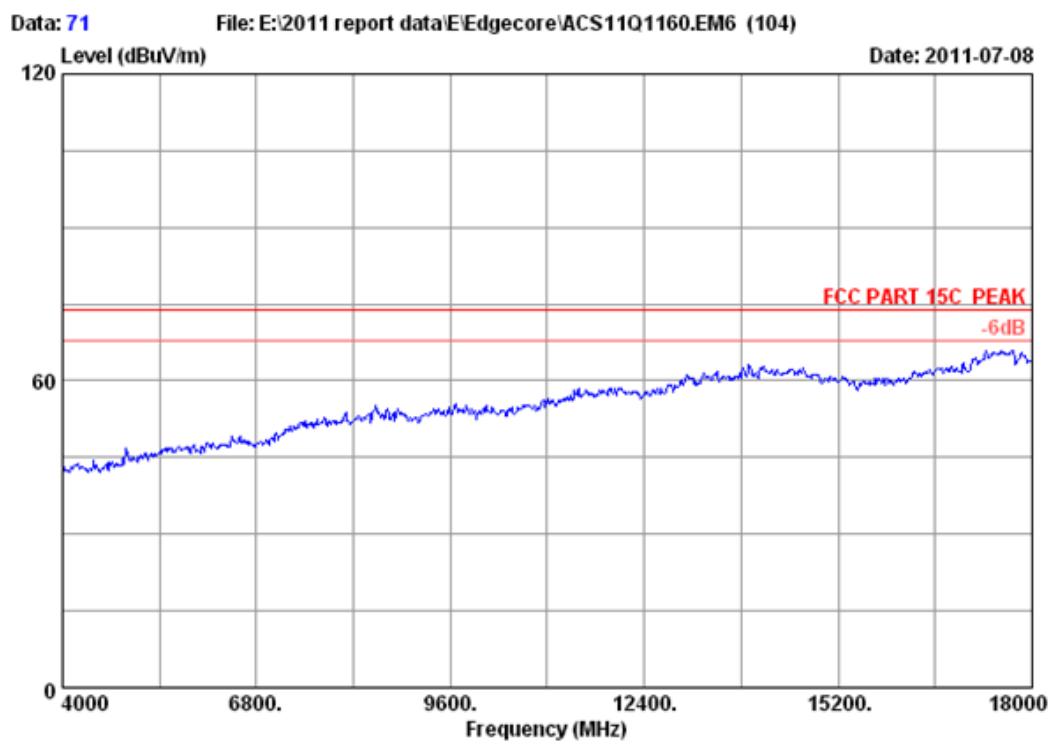
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission			
					Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 4904.000	34.46	10.74	35.00	44.26	54.46	74.00	19.54	Peak
2 4904.000	34.46	10.74	35.00	36.24	46.44	54.00	7.56	Average

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.

FCC ID:YZKSMCWR14SN5

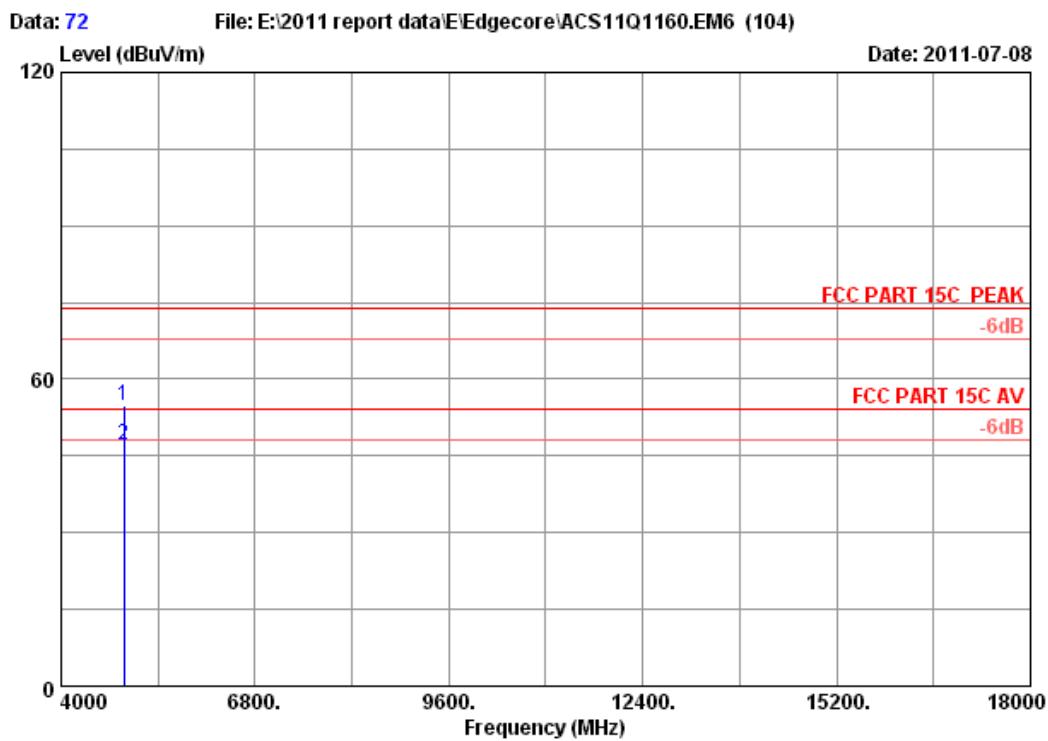
page 4-77



Site no. : 3m Chamber Data no. : 71
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT40 CH7 2452MHz Tx
M/N : SMCWR14S-N5

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 72
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT40 CH7 2452MHz Tx
M/N : SMCWBR14S-N5

	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4904.000	34.46	10.74	35.00	44.58	54.78	74.00	19.22 Peak
2	4904.000	34.46	10.74	35.00	37.10	47.30	54.00	6.70 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.

5. CONDUCTED SPURIOUS EMISSIONS

5.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08,11	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08,11	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08,11	1 Year

5.2. Limit

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in 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.

5.3. 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 and measure all the emissions detected.

5.4. Test result

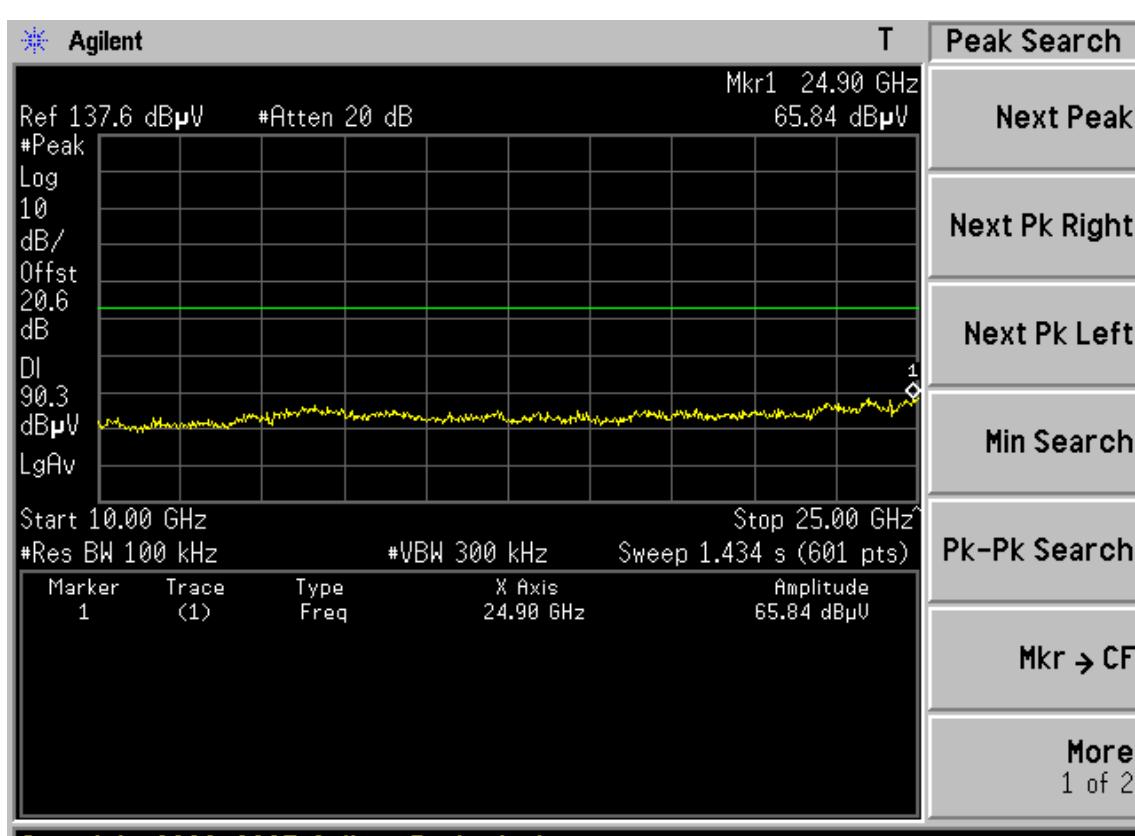
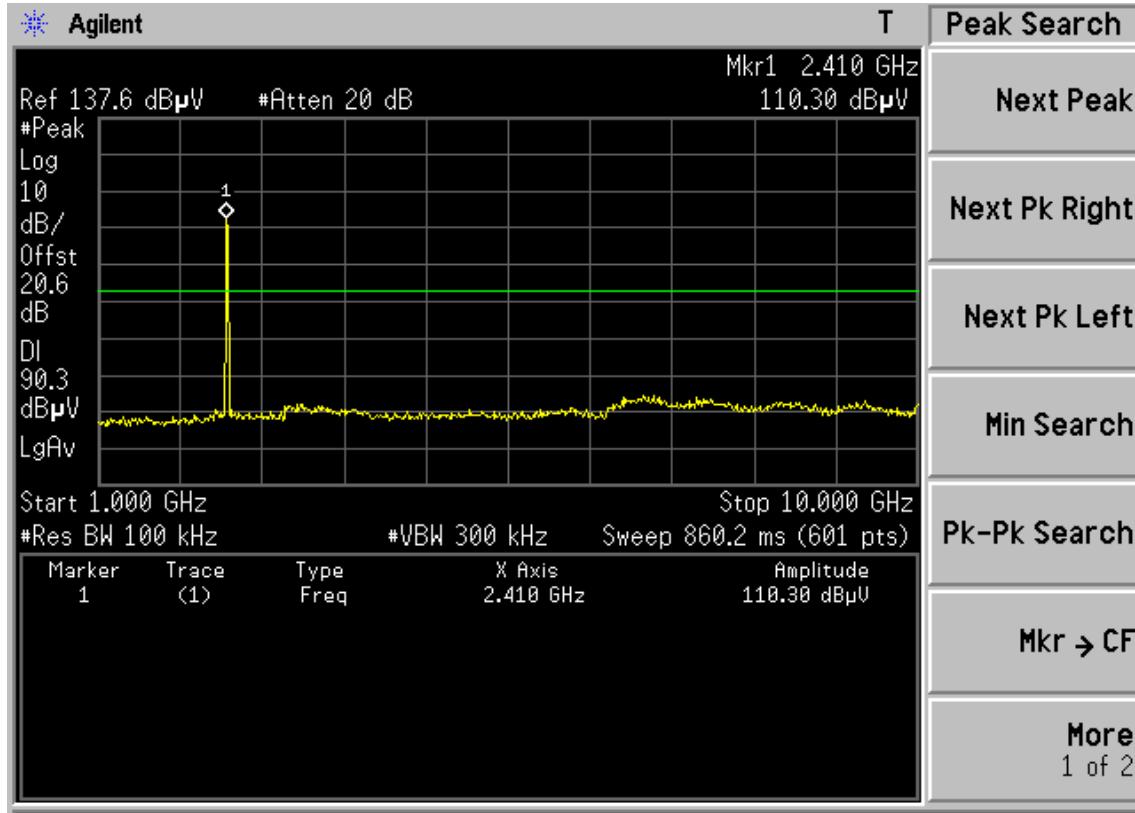
PASS (The testing data was attached in the next pages.)

FCC ID:YZKSMCWBR14SN5

page 5-2

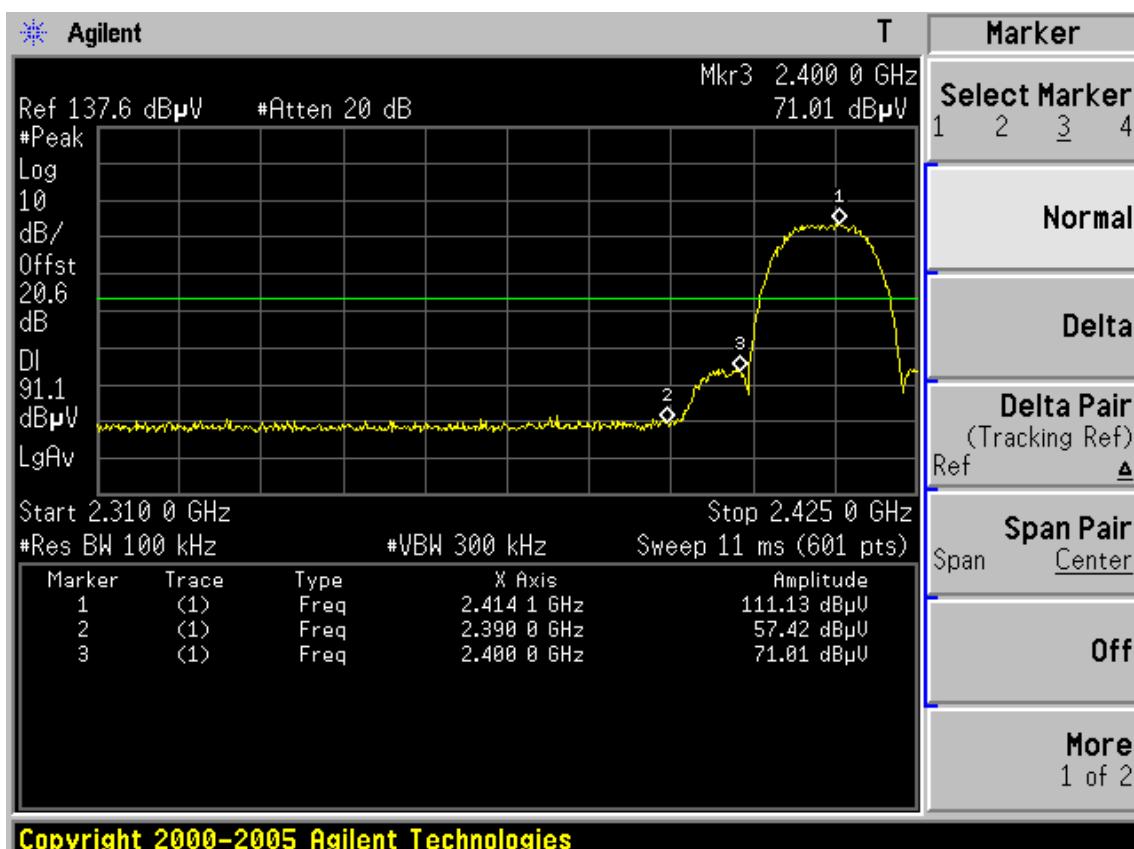
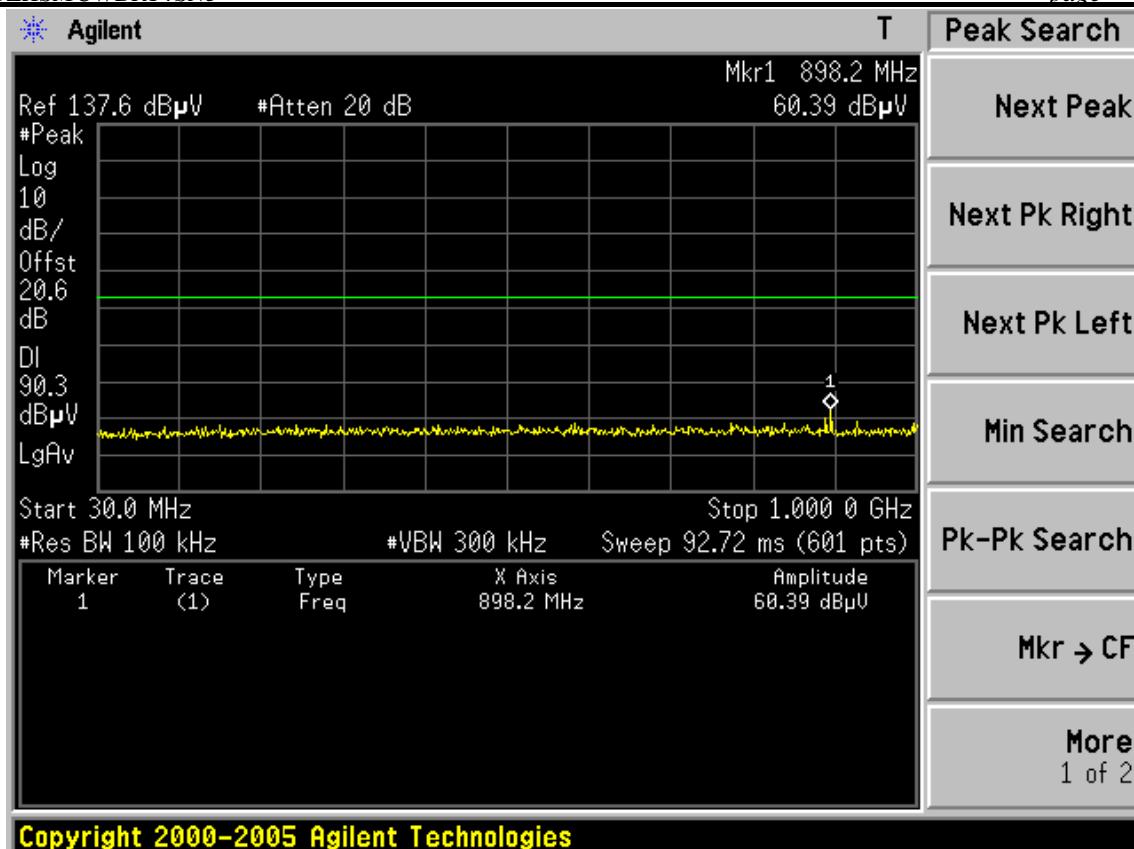
Test Mode: IEEE 802.11b TX

CH1



FCC ID:YZKSMCWBR14SN5

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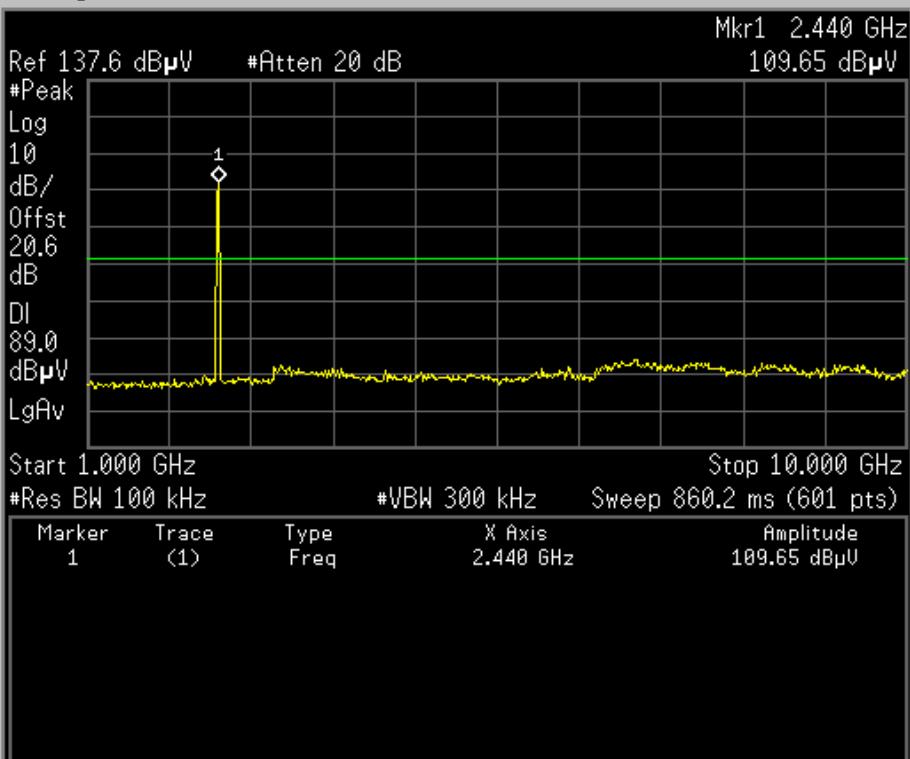


FCC ID:YZKSMCWBR14SN5

page 5-4

CH6

Agilent



Peak Search

Next Peak

Next Pk Right

Next Pk Left

Min Search

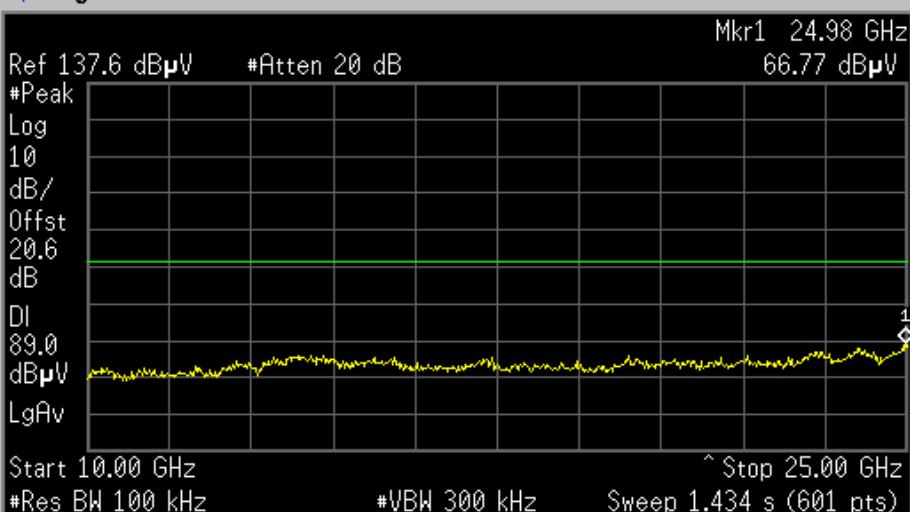
Pk-Pk Search

Mkr → CF

More
1 of 2

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Peak Search

Next Peak

Next Pk Right

Next Pk Left

Min Search

Pk-Pk Search

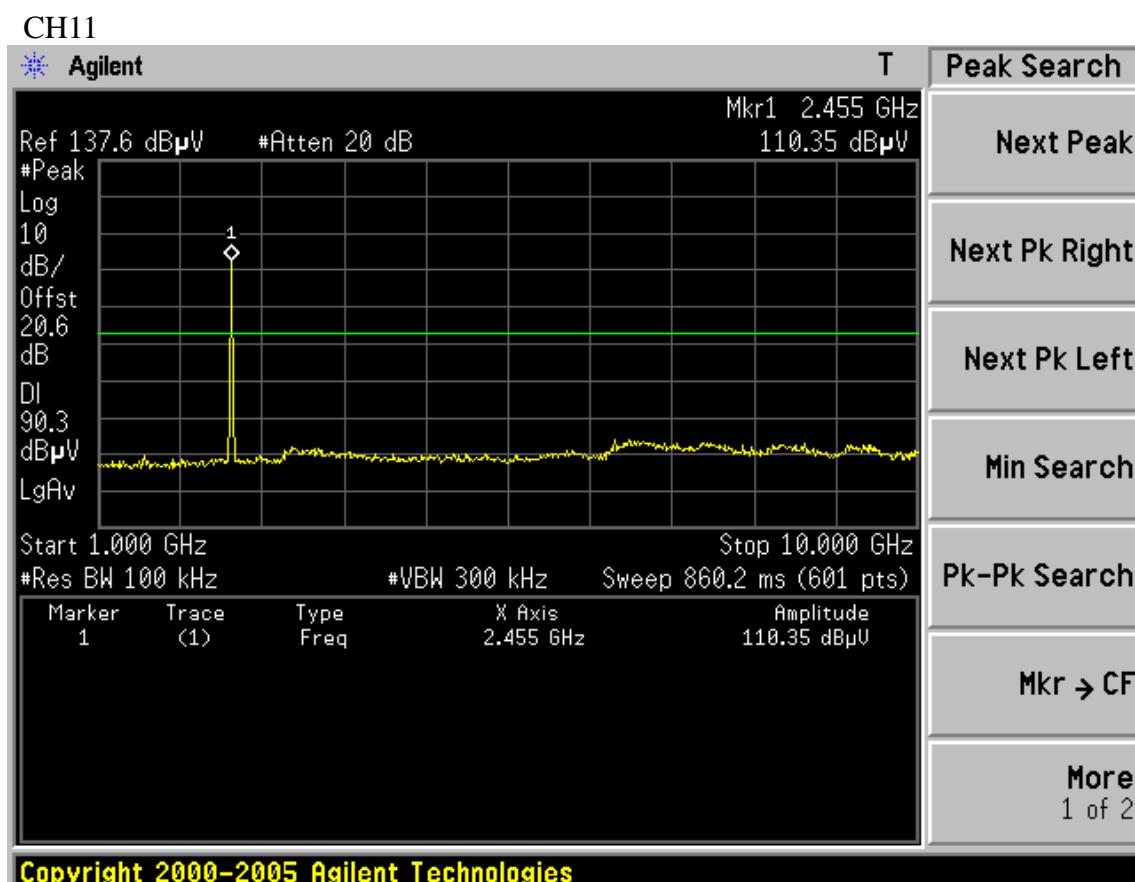
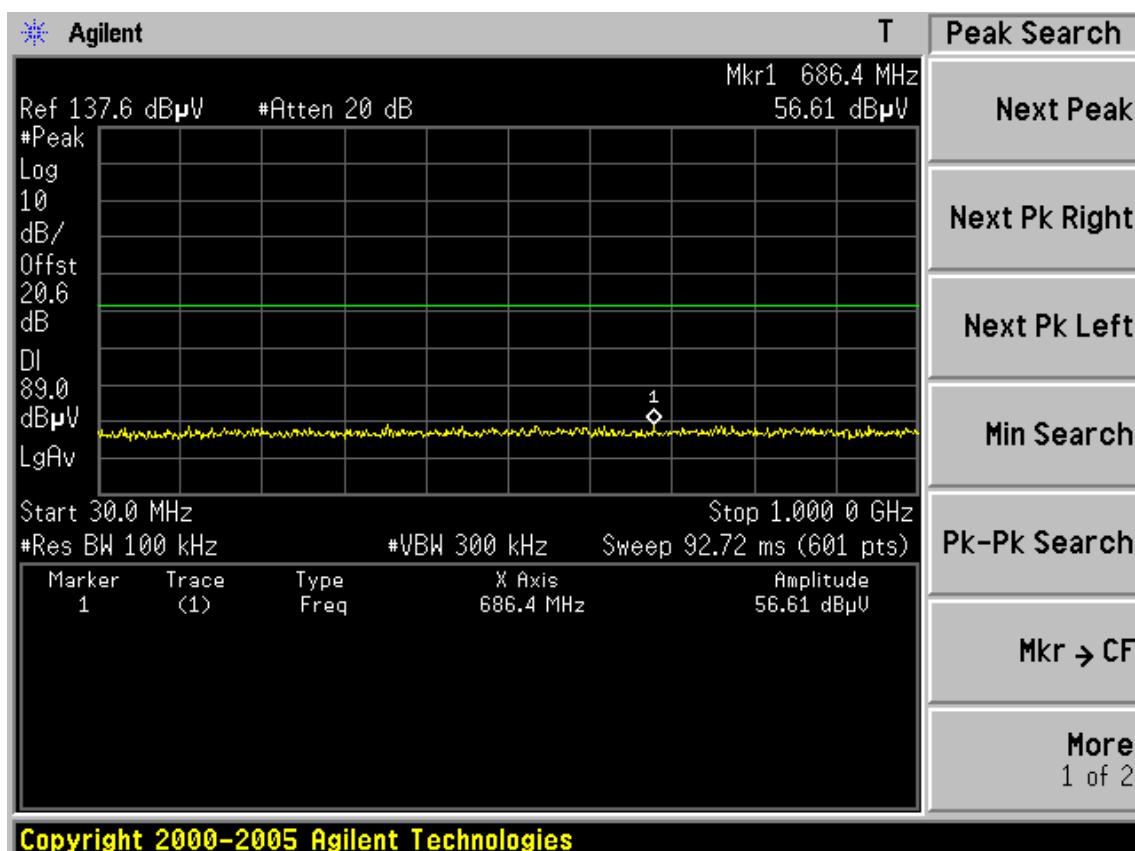
Mkr → CF

More
1 of 2

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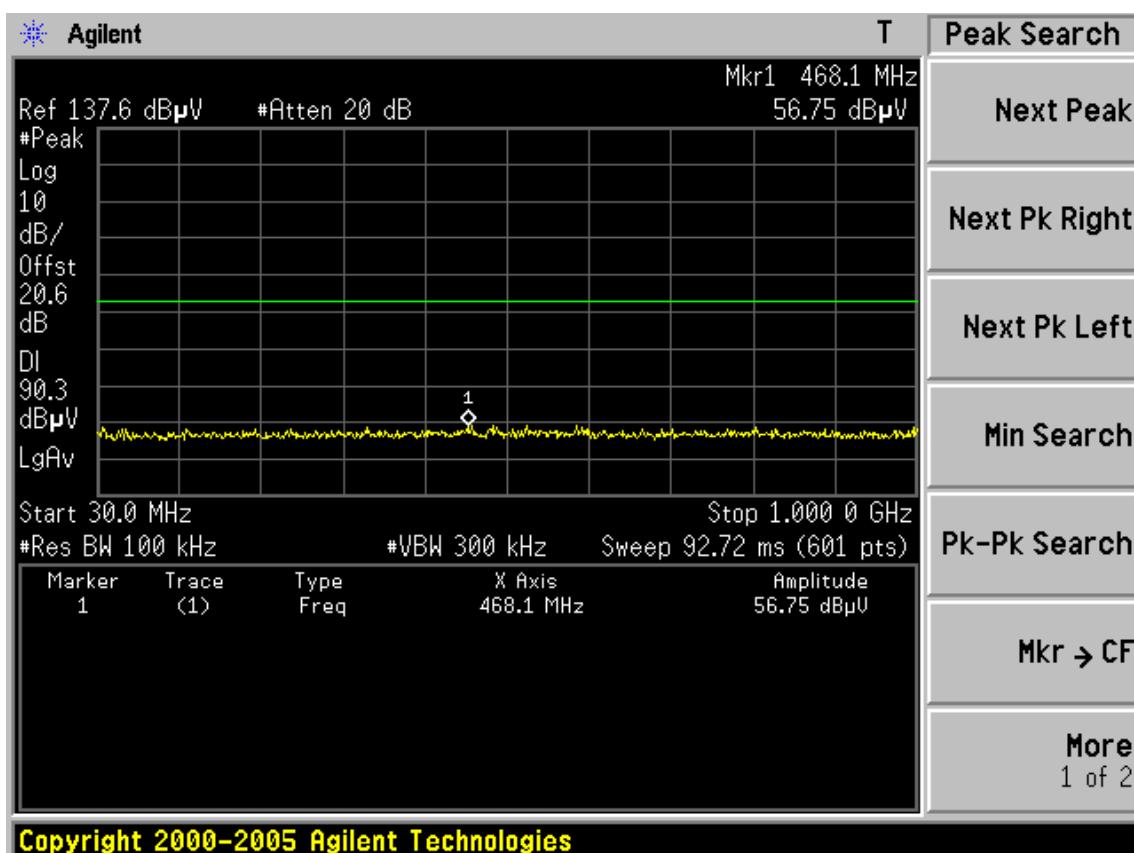
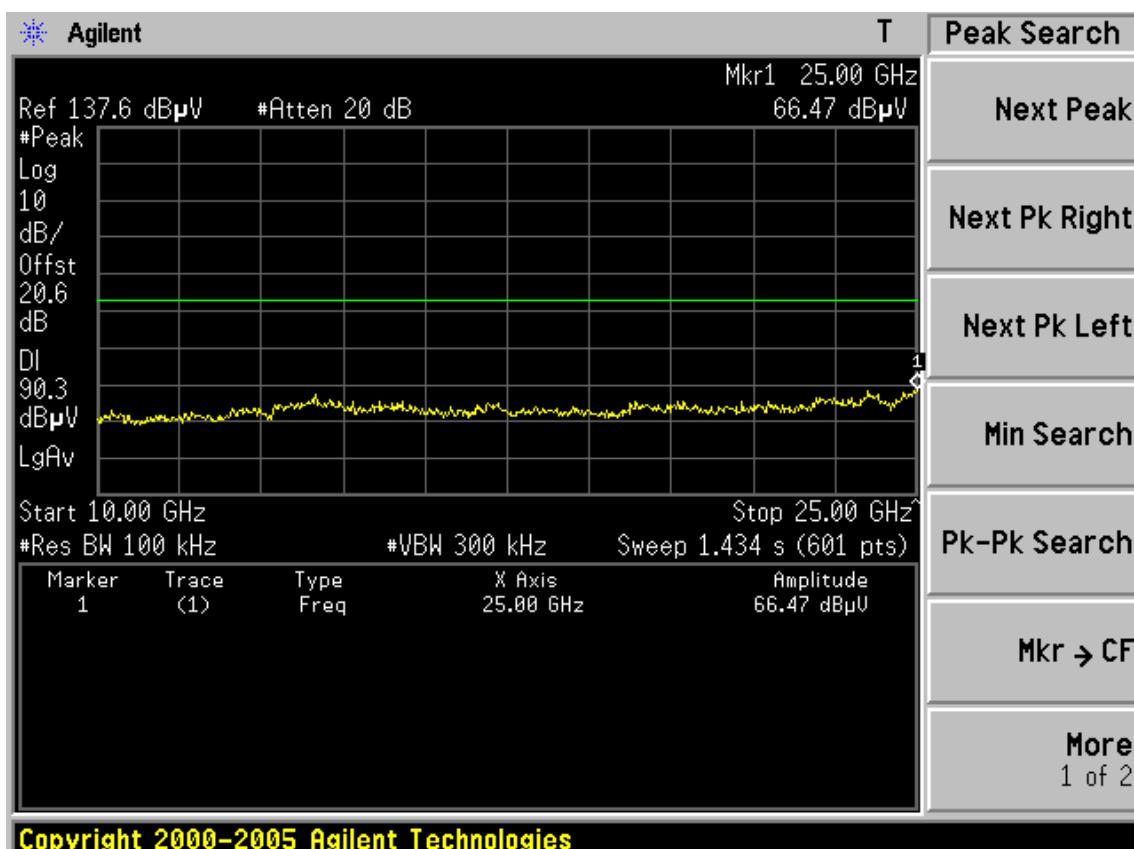
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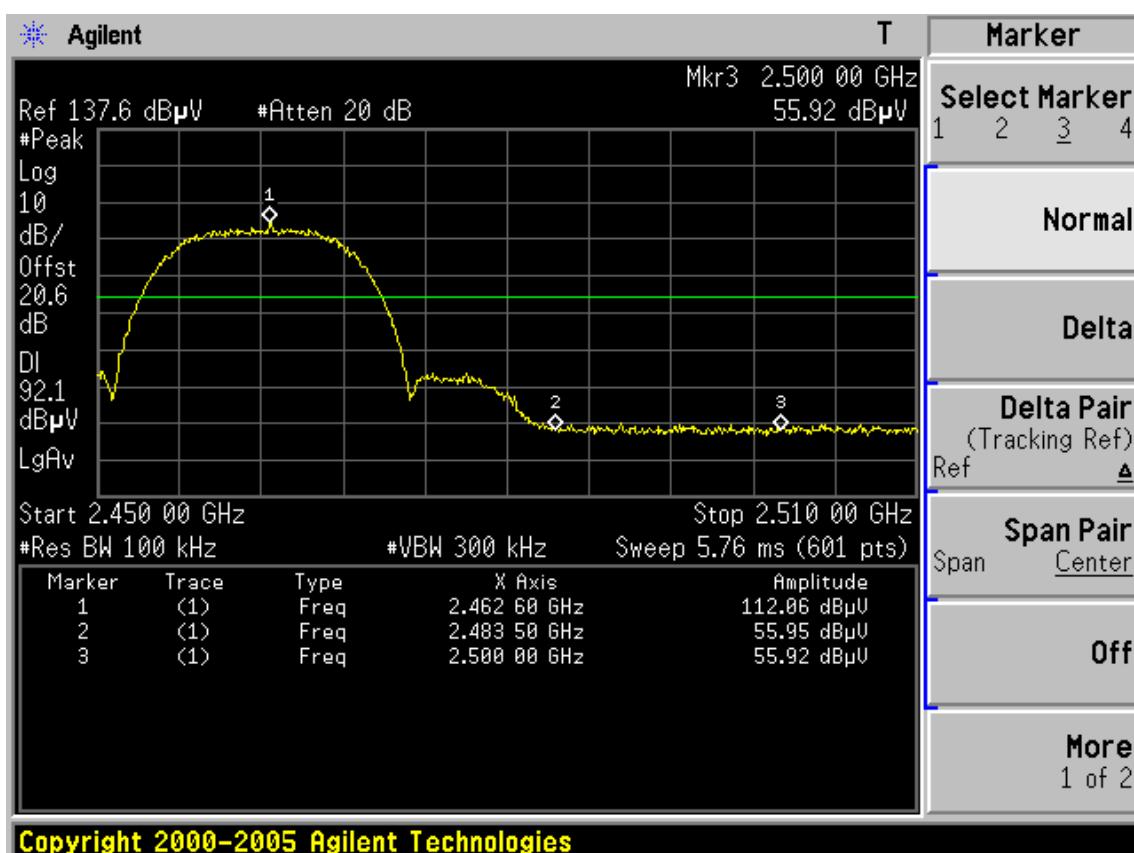
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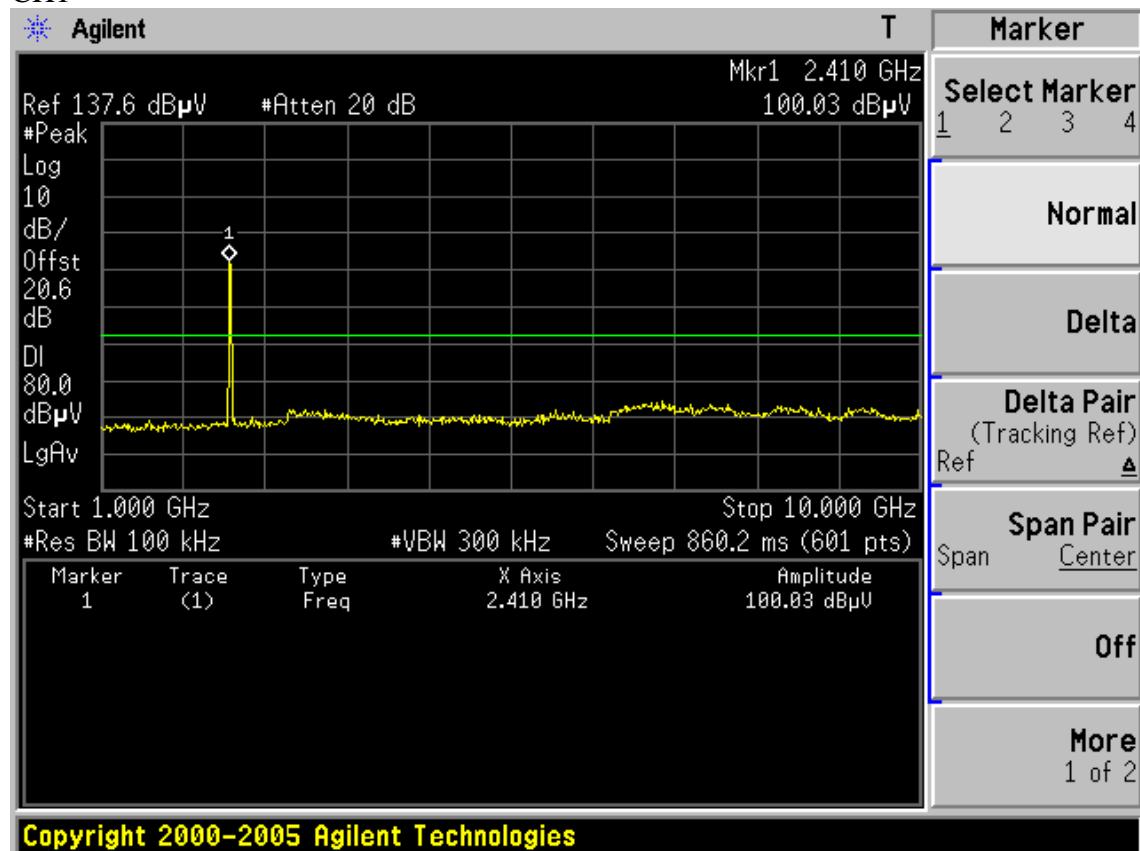
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page 5-7



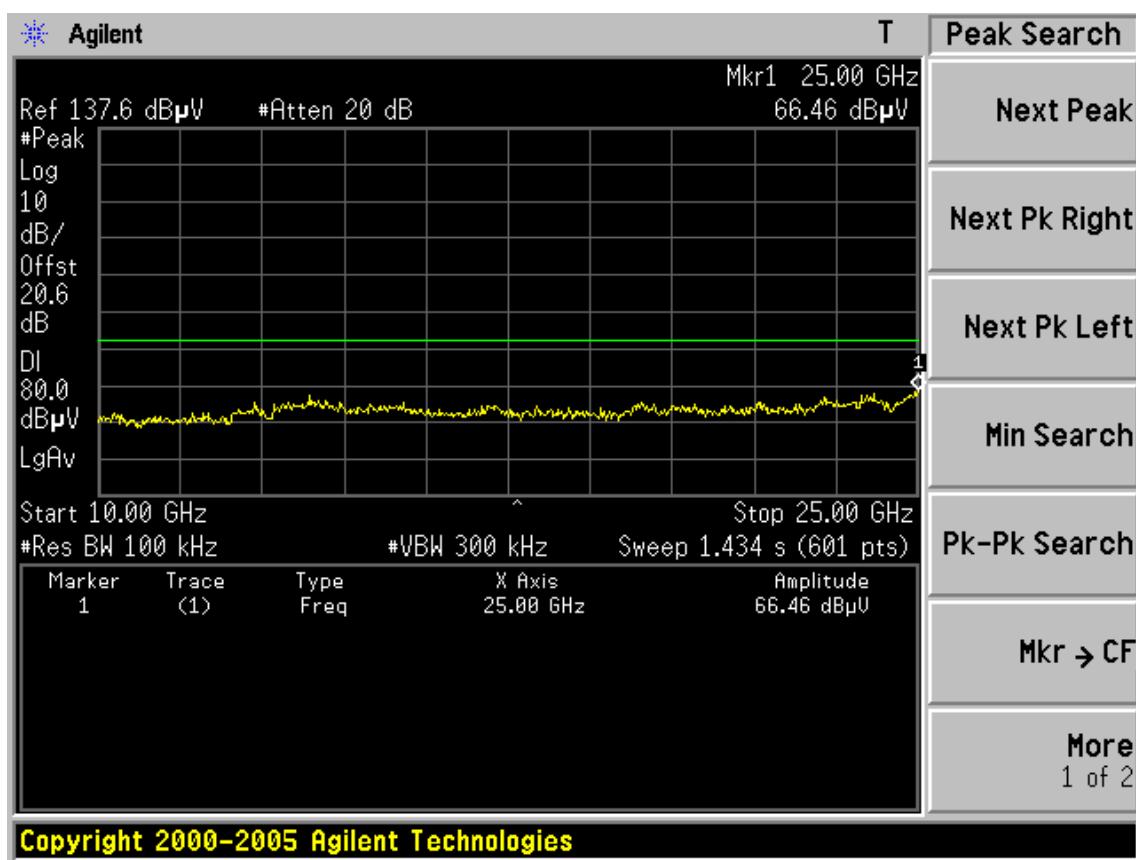
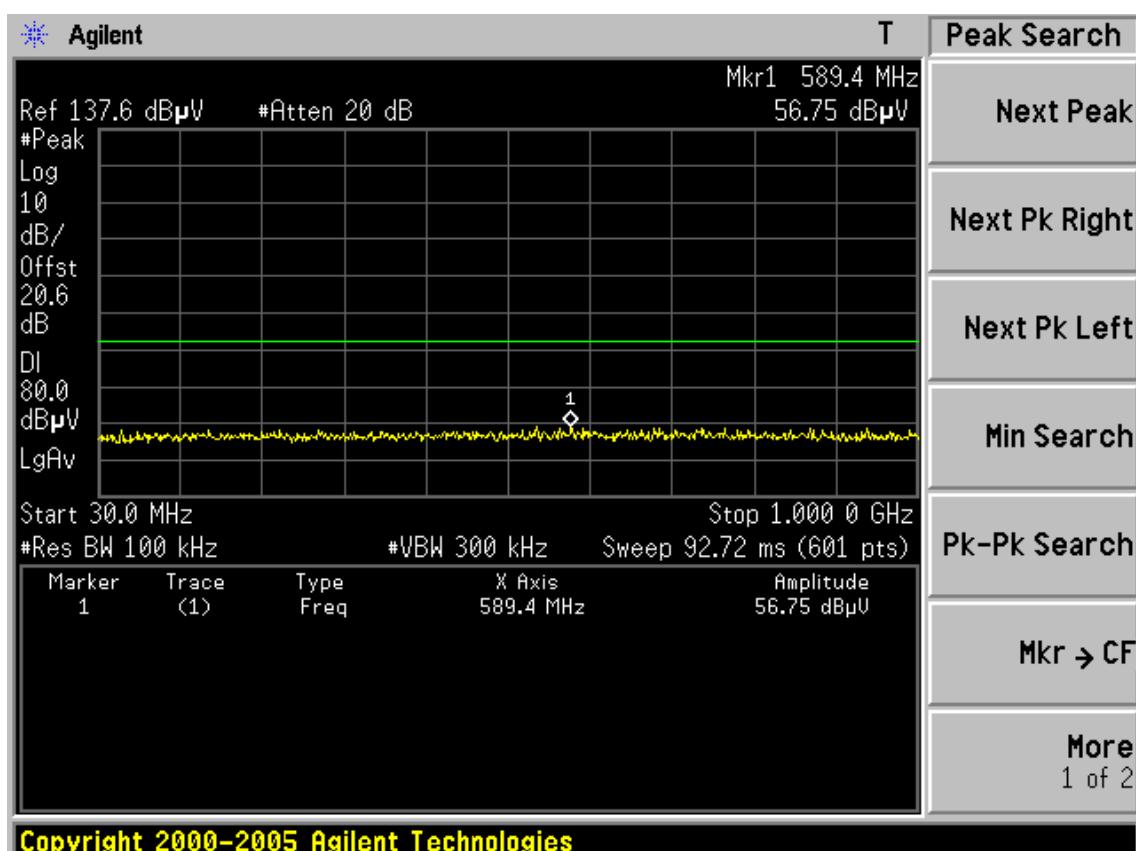
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CH1



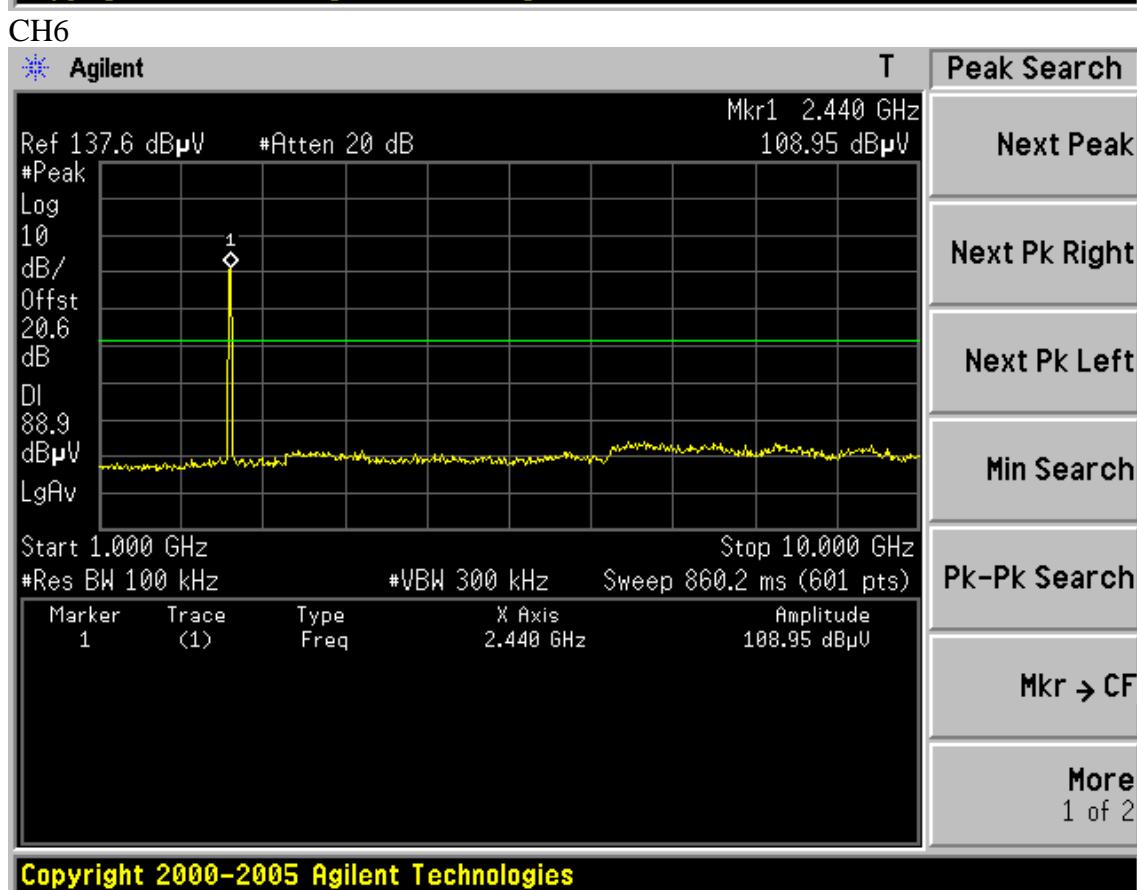
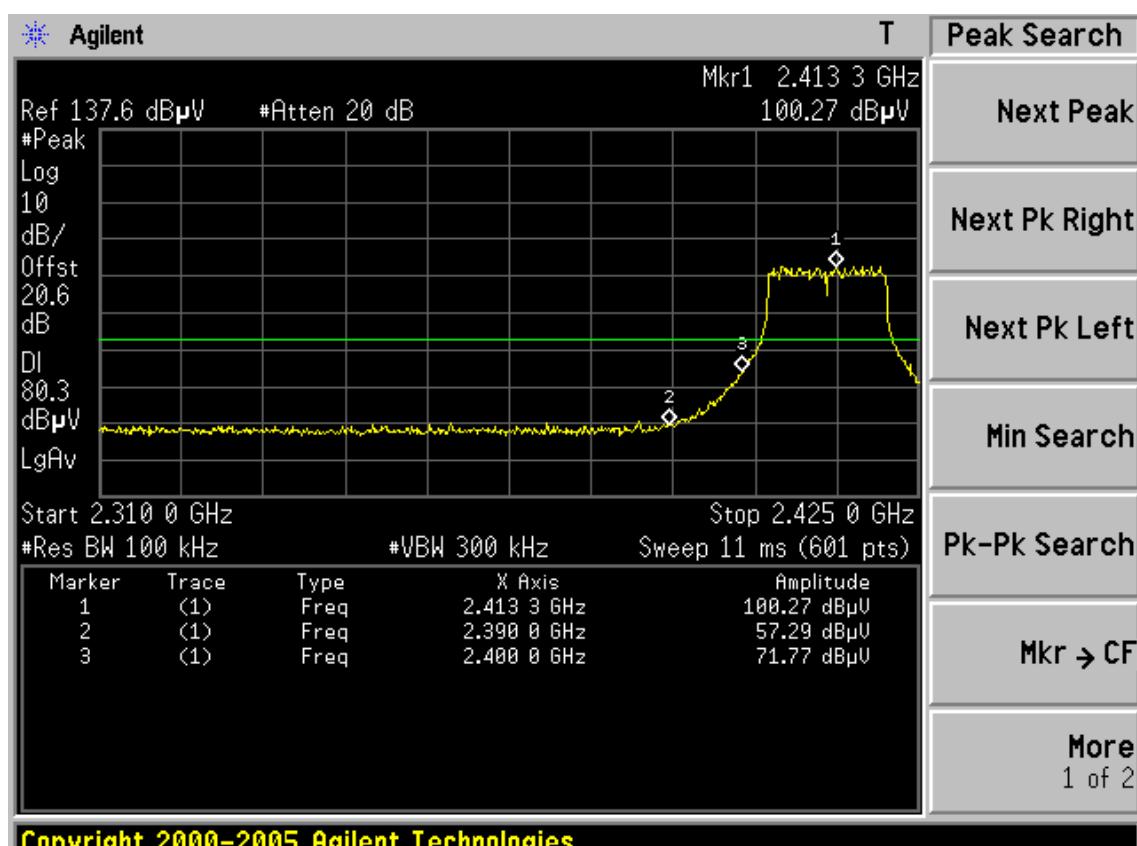
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page 5-8



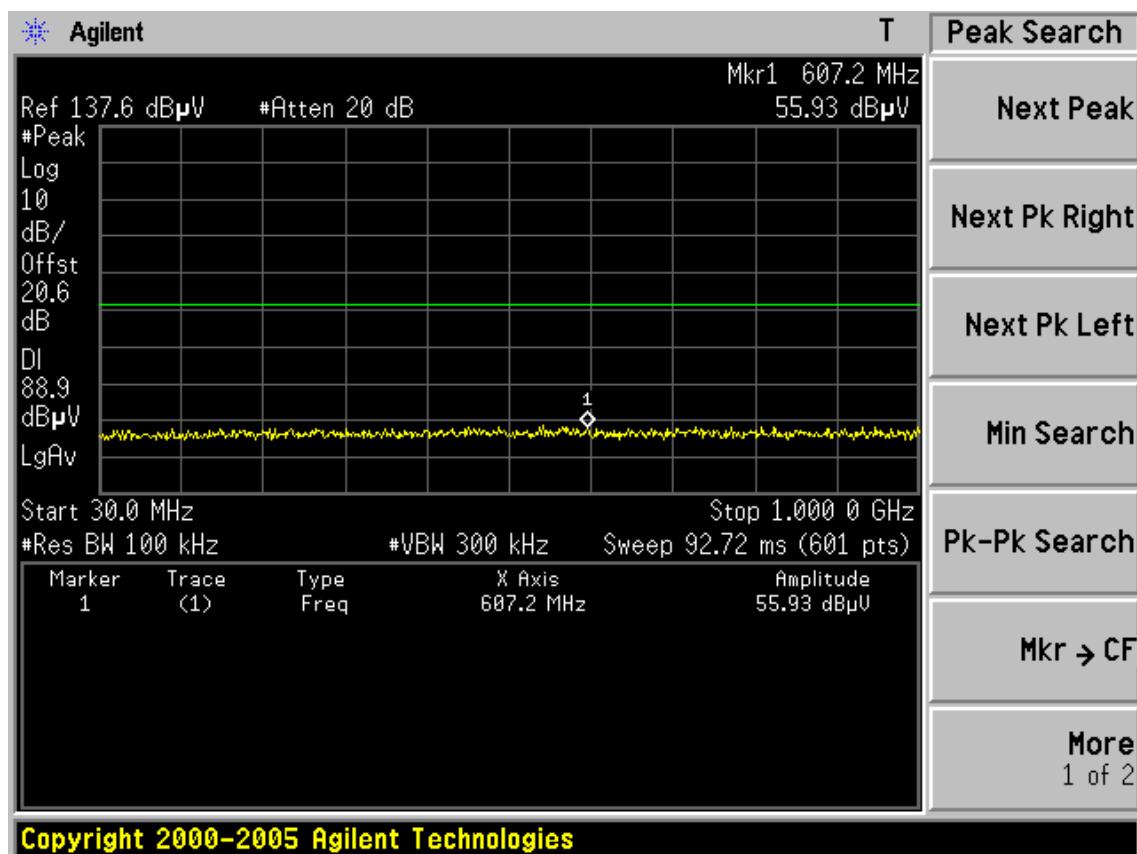
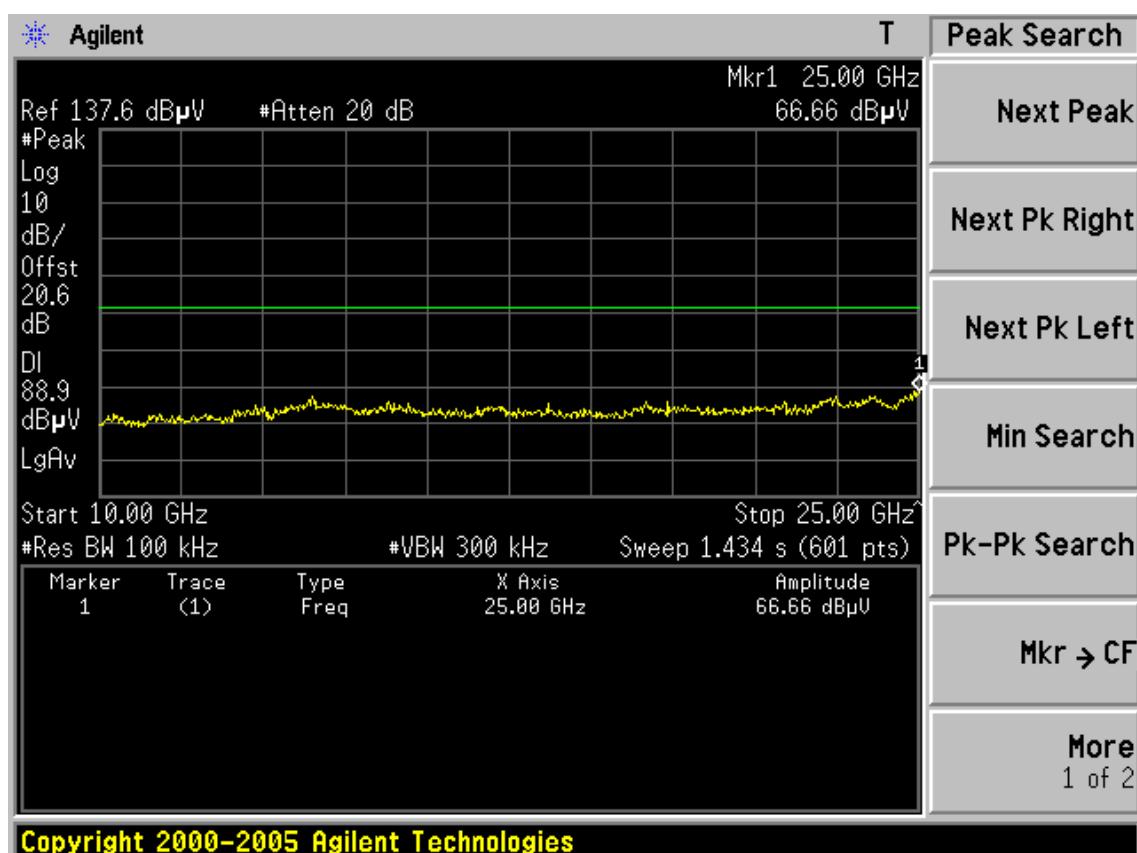
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FCC ID:YZKSMCWBR14SN5

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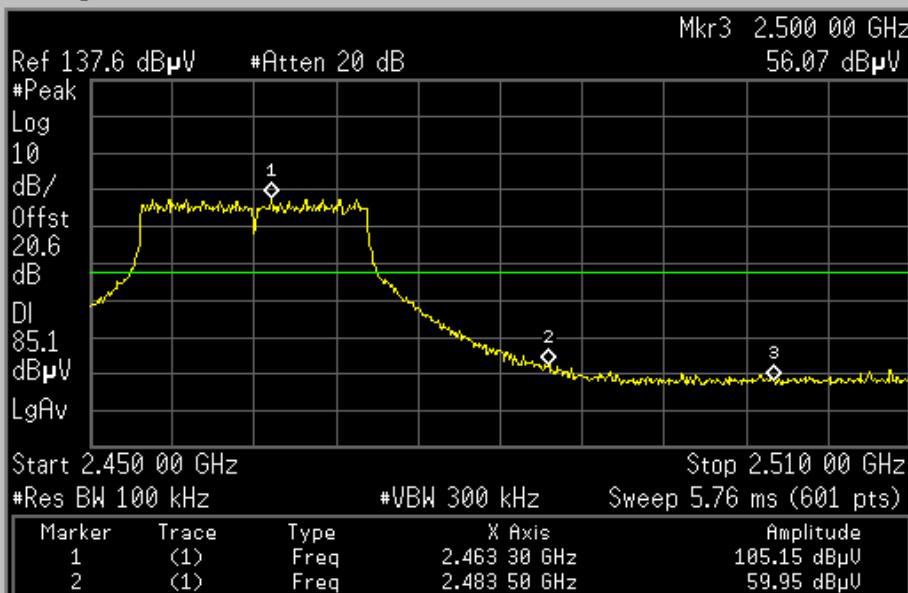
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CH11

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T



- Marker
- Select Marker 1 2 3 4
- Normal
- Delta
- Delta Pair (Tracking Ref) Ref ▲
- Span Pair Span Center
- Off
- More 1 of 2

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T

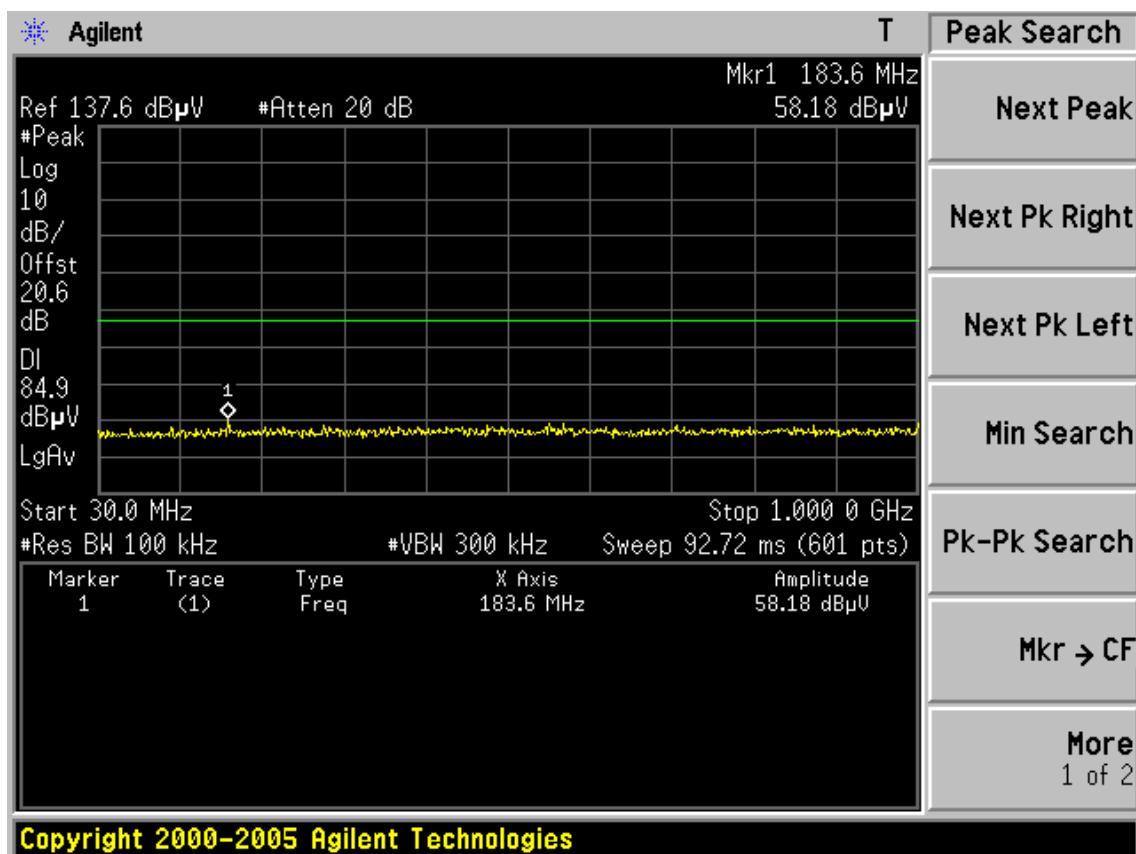
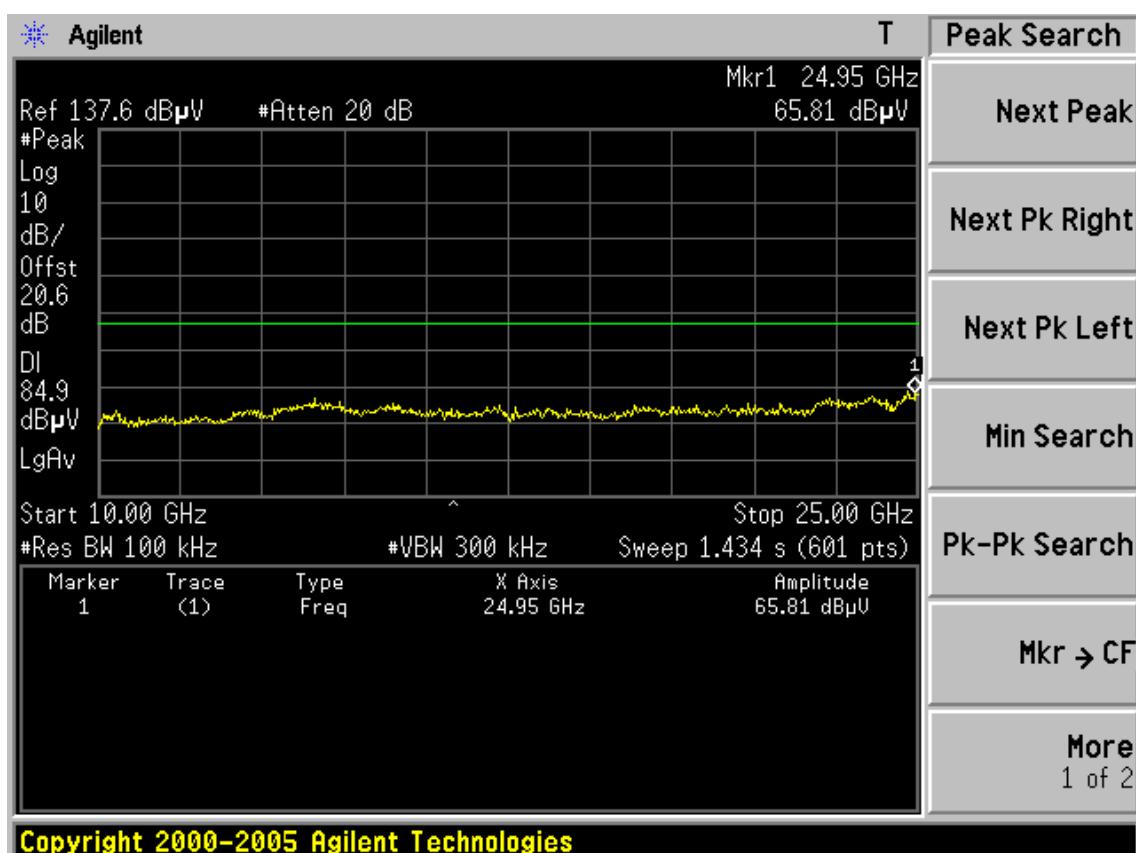


- Peak Search
- Next Peak
- Next Pk Right
- Next Pk Left
- Min Search
- Pk-Pk Search
- Mkr → CF
- More 1 of 2

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FCC ID:YZKSMCWBR14SN5

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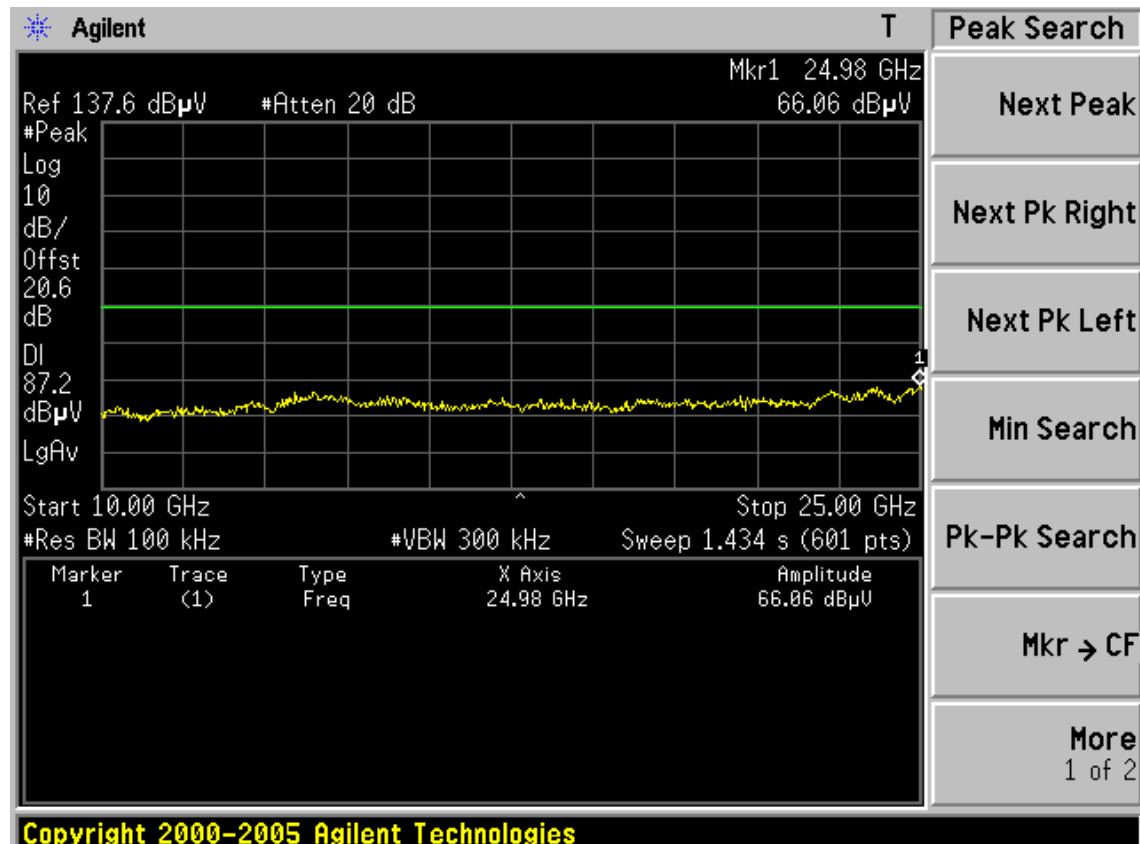
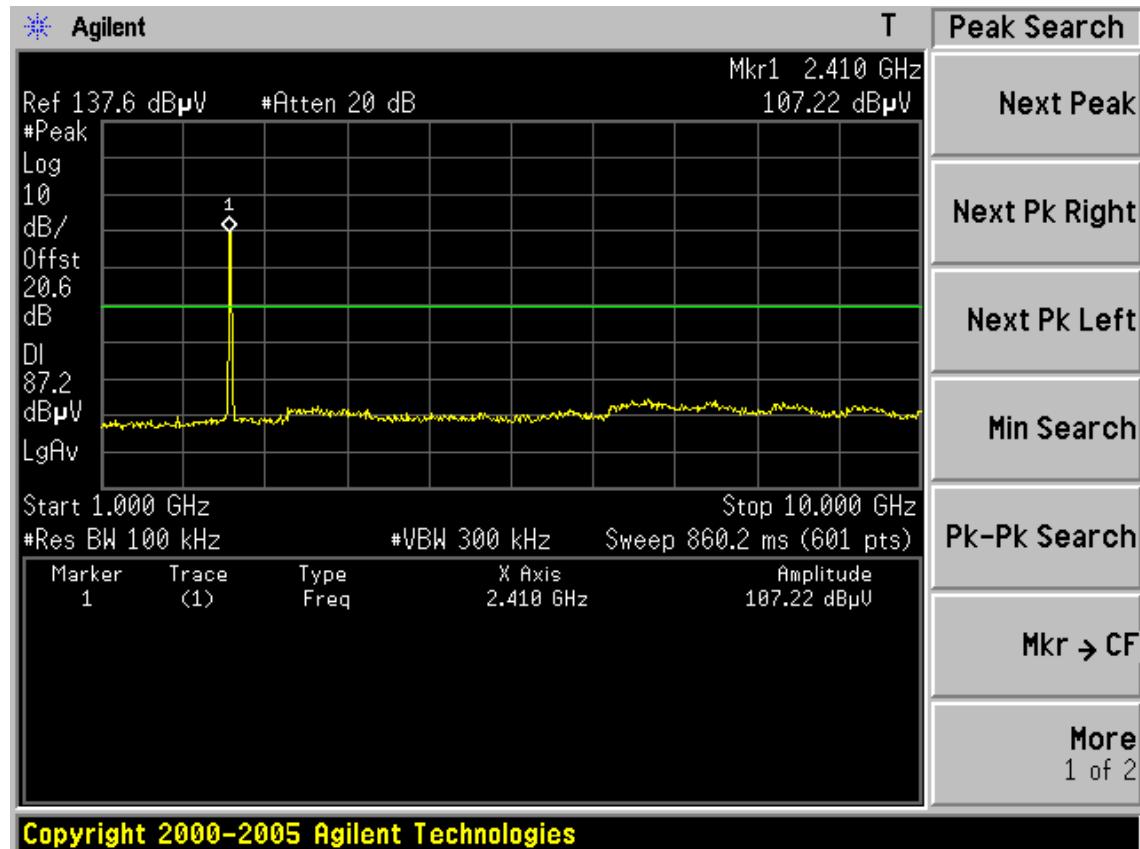


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page 5-13

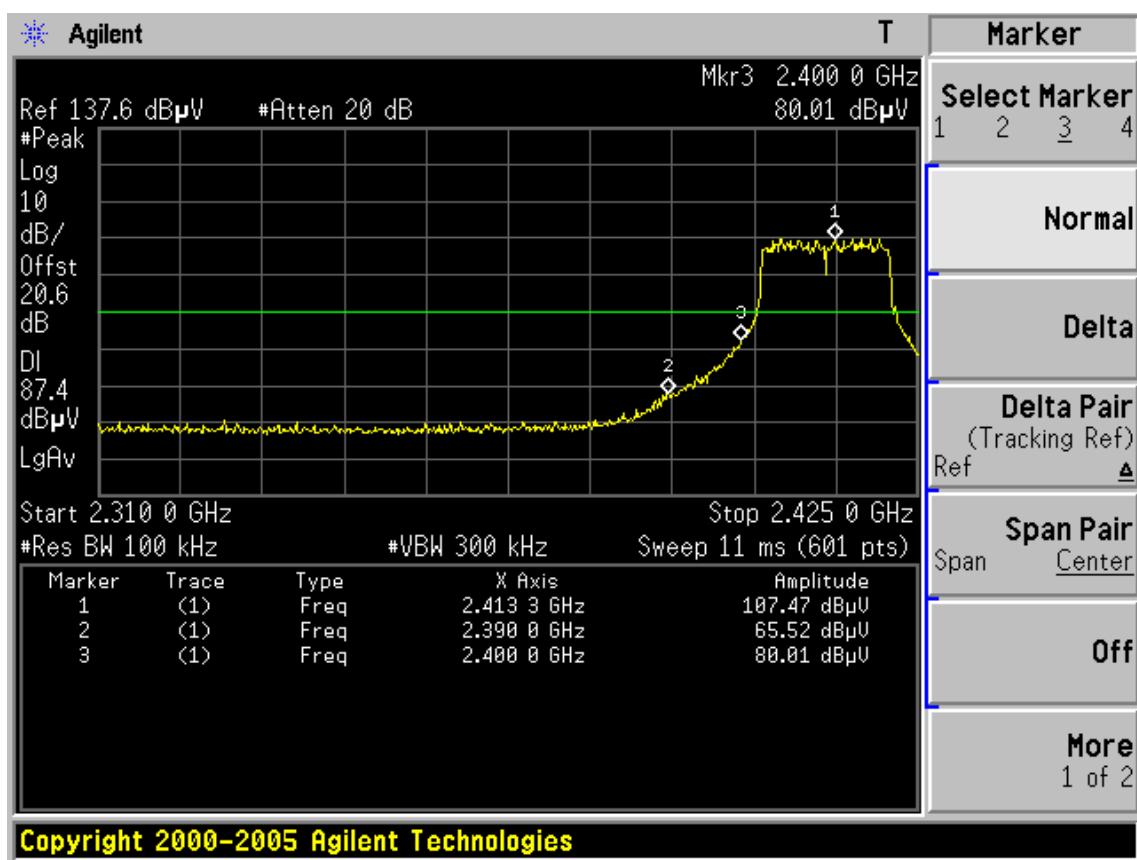
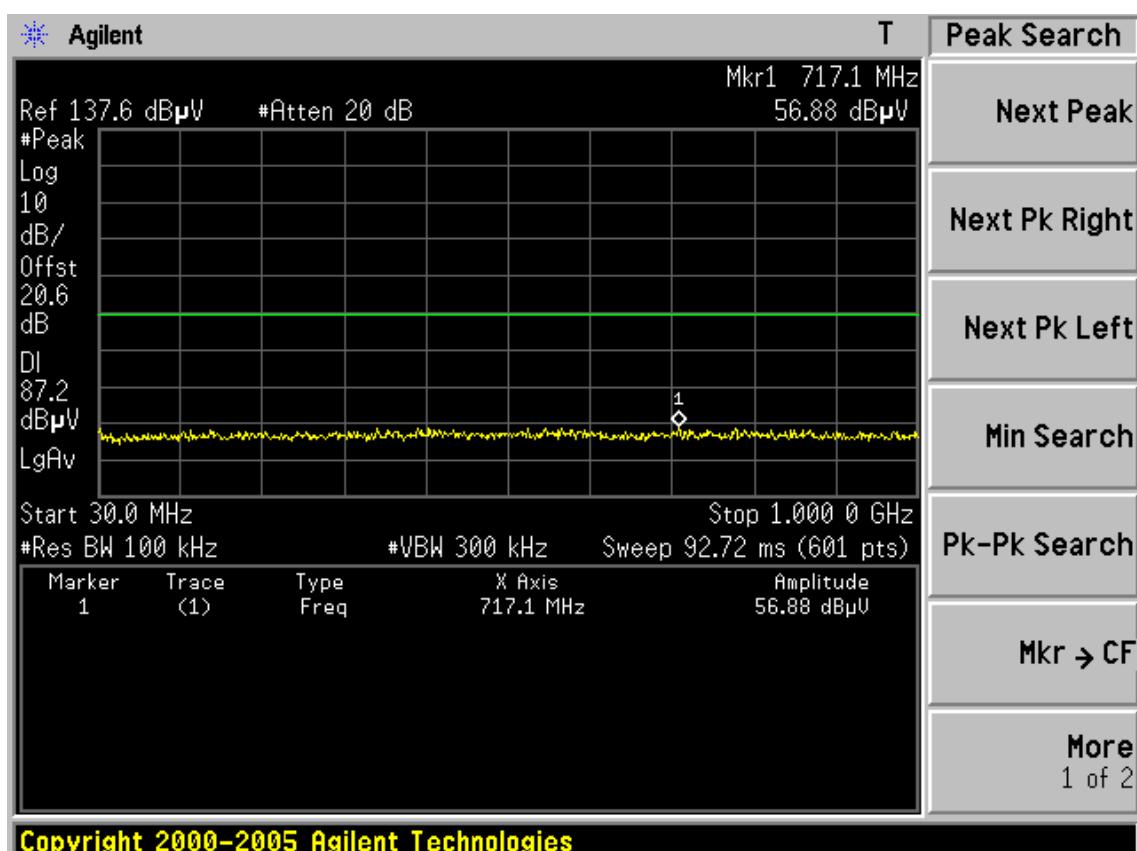
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CH1



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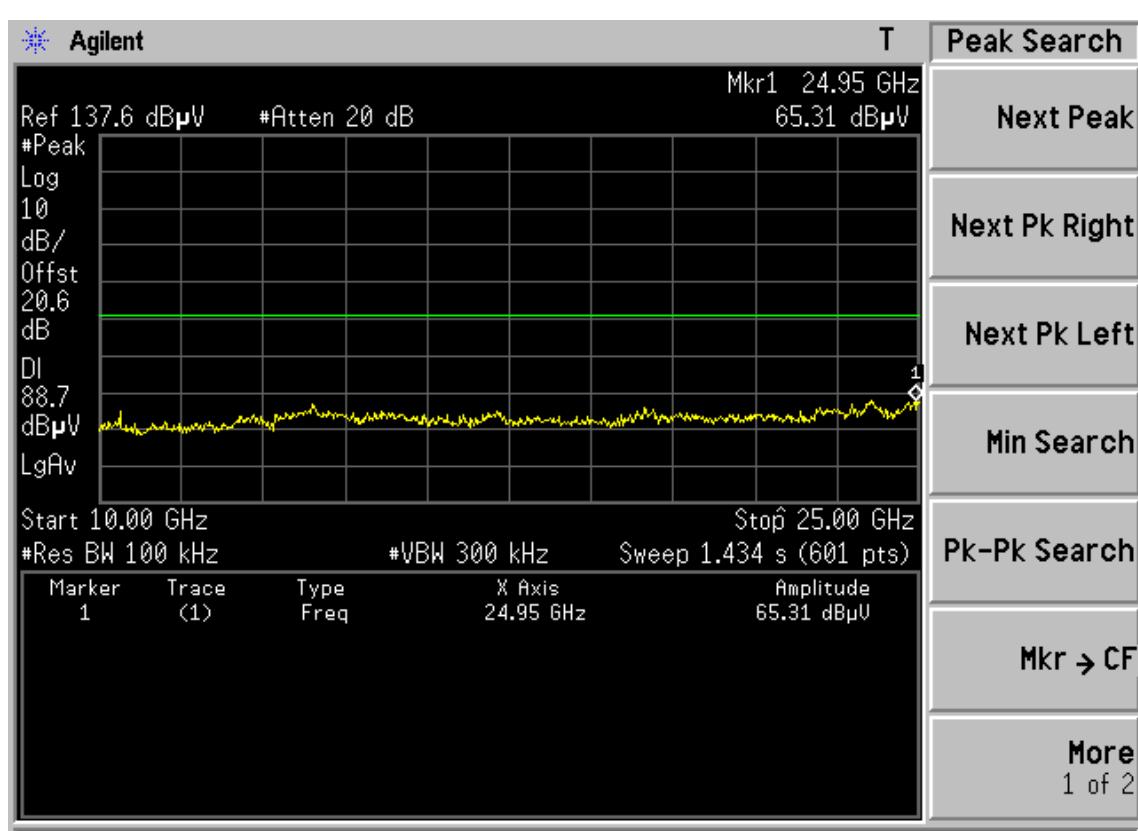
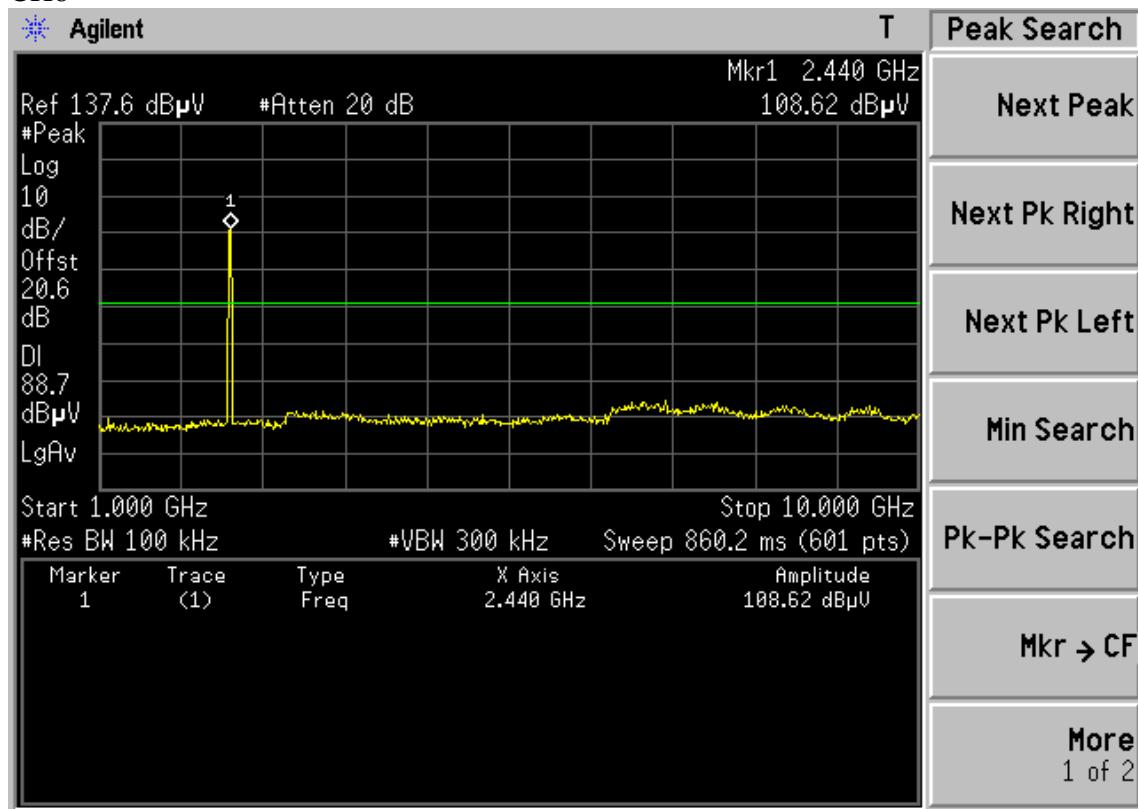
page 5-14



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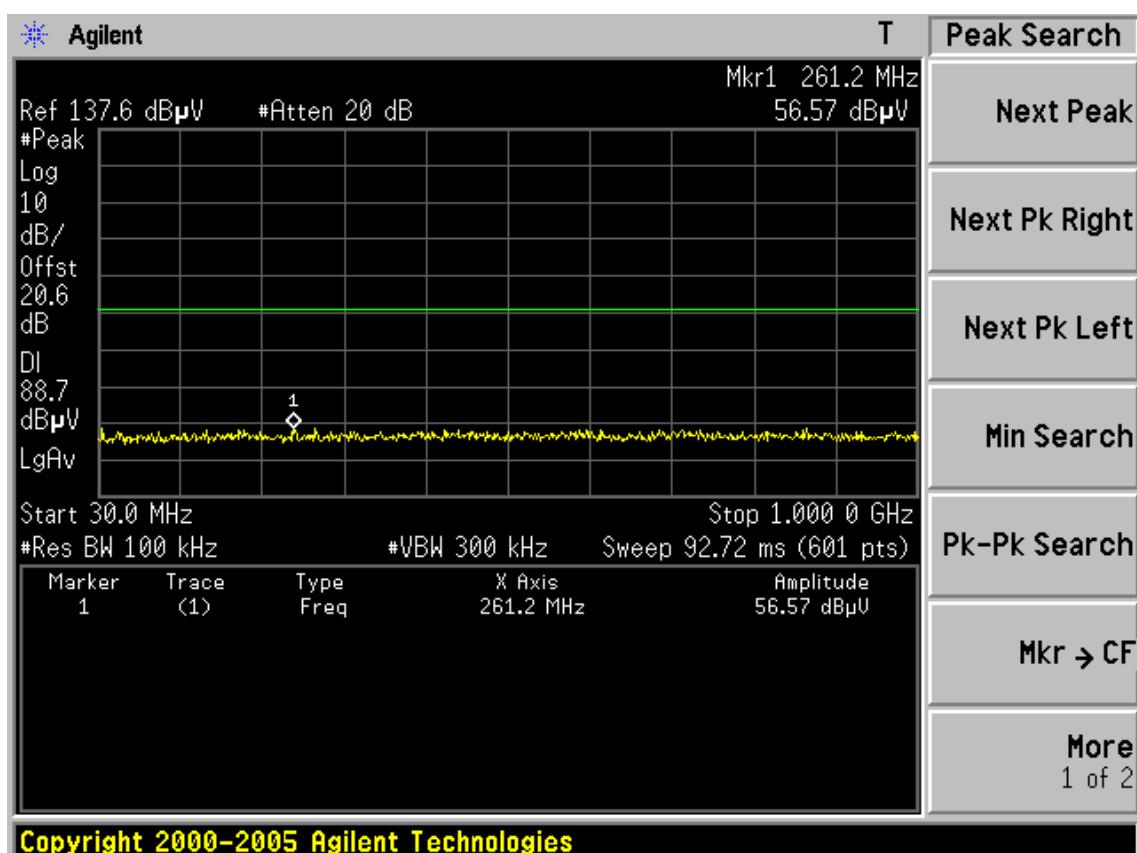
page 5-15

CH6

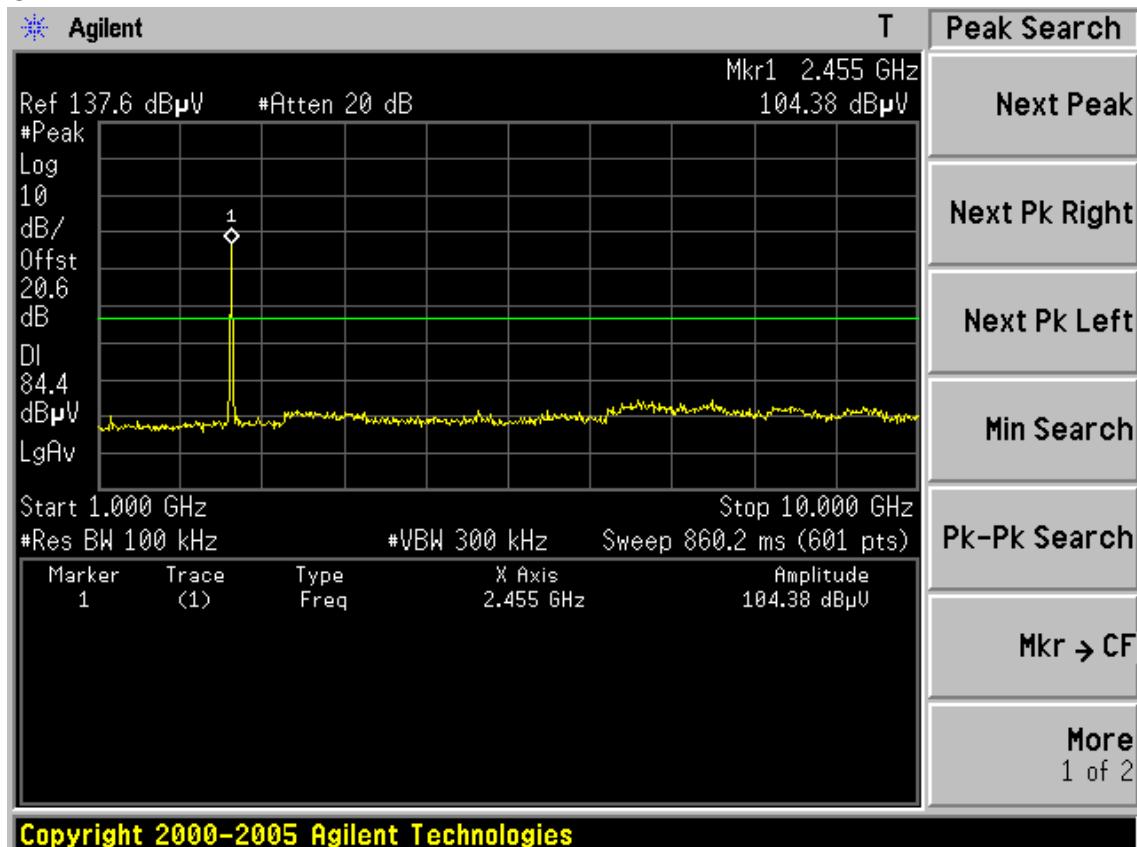


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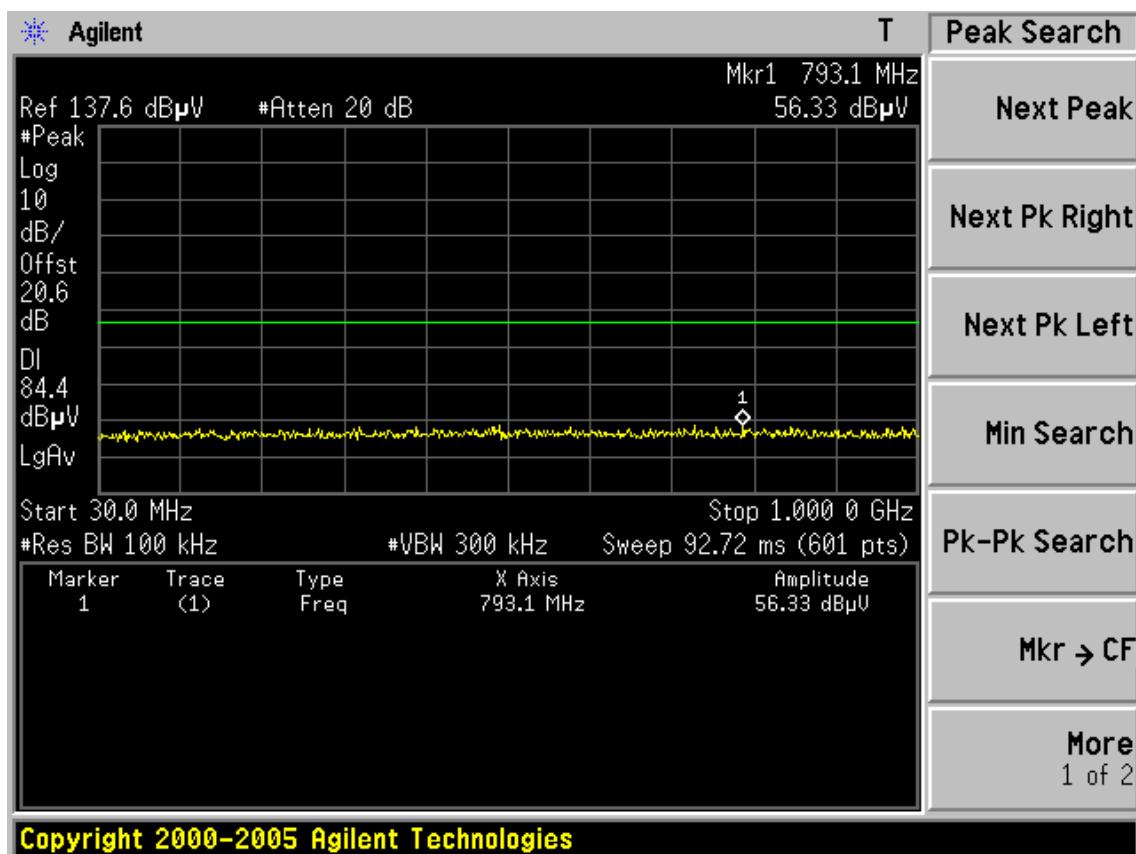
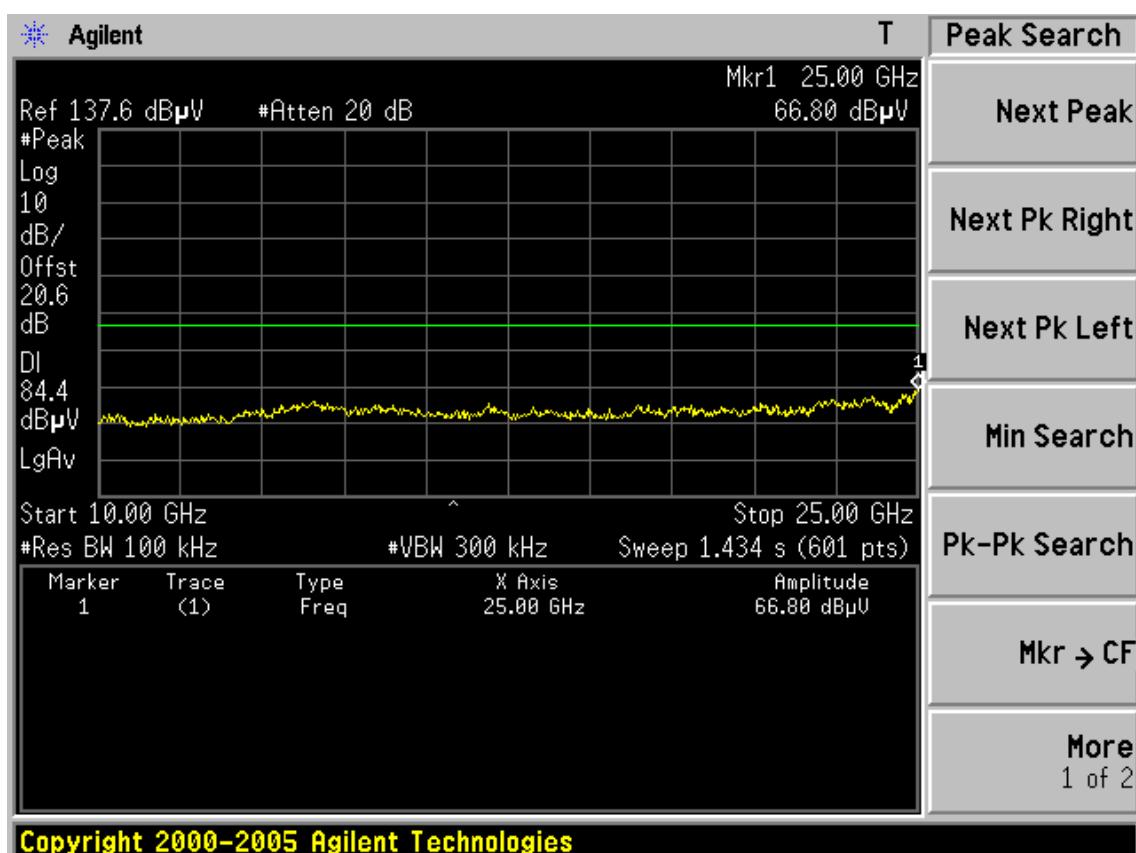


CH11



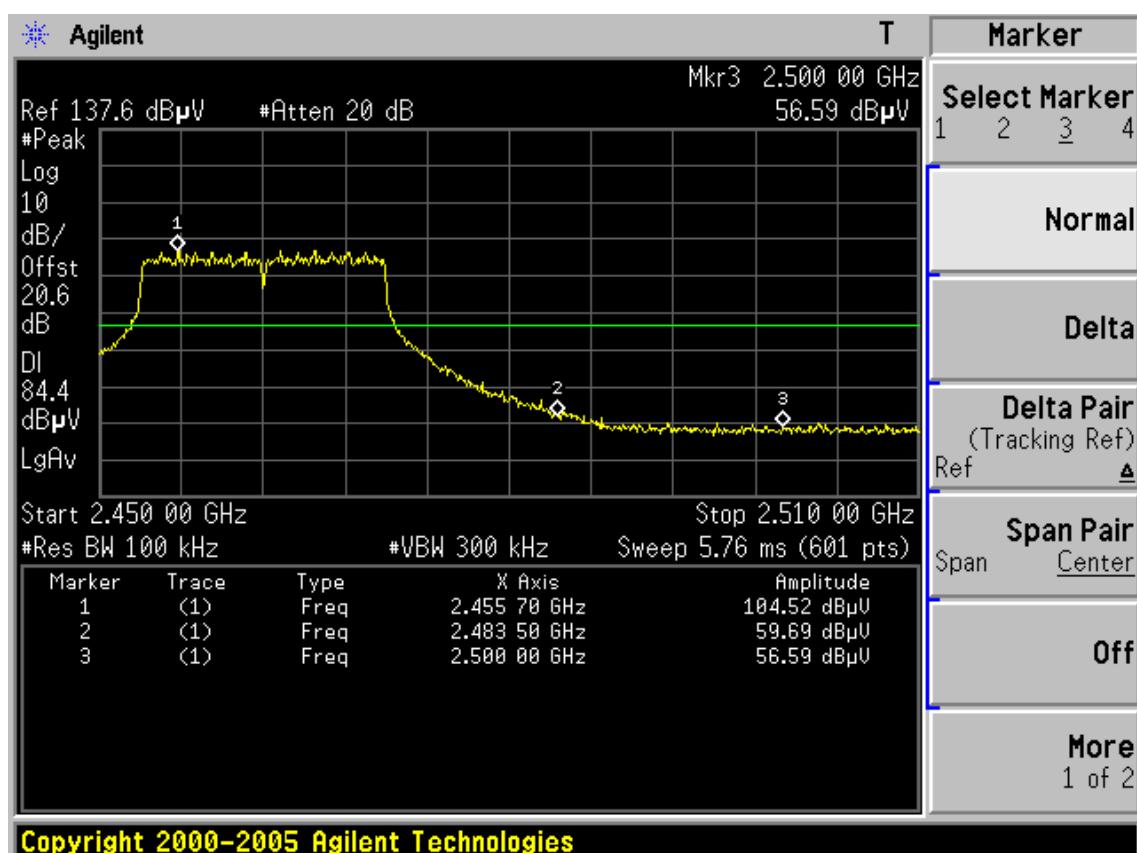
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page 5-17

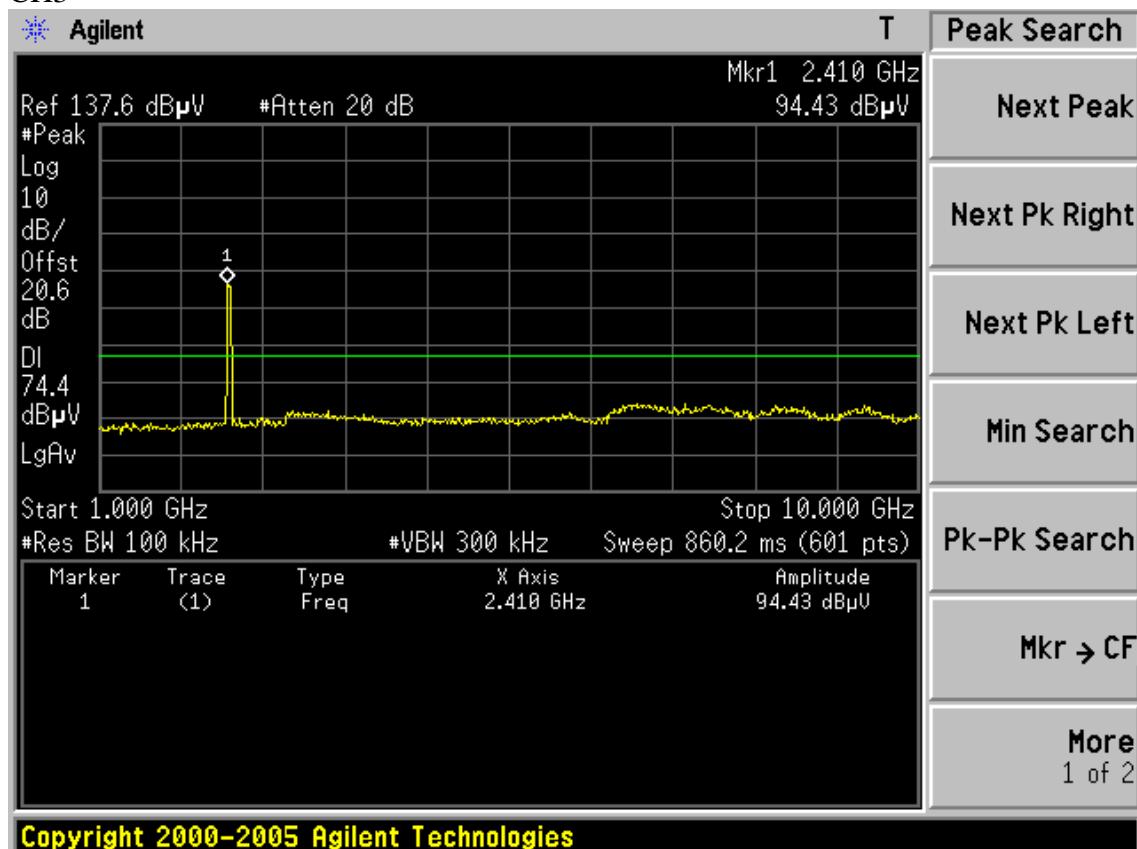


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page 5-18

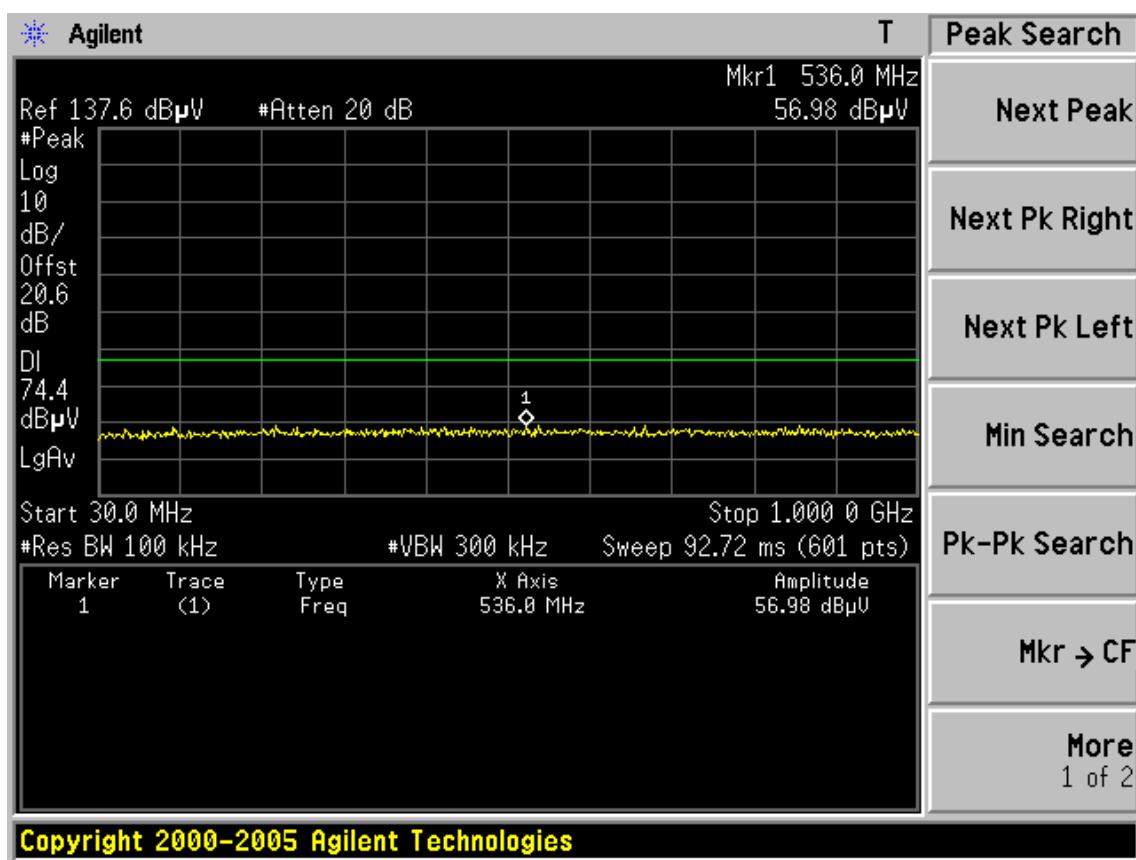
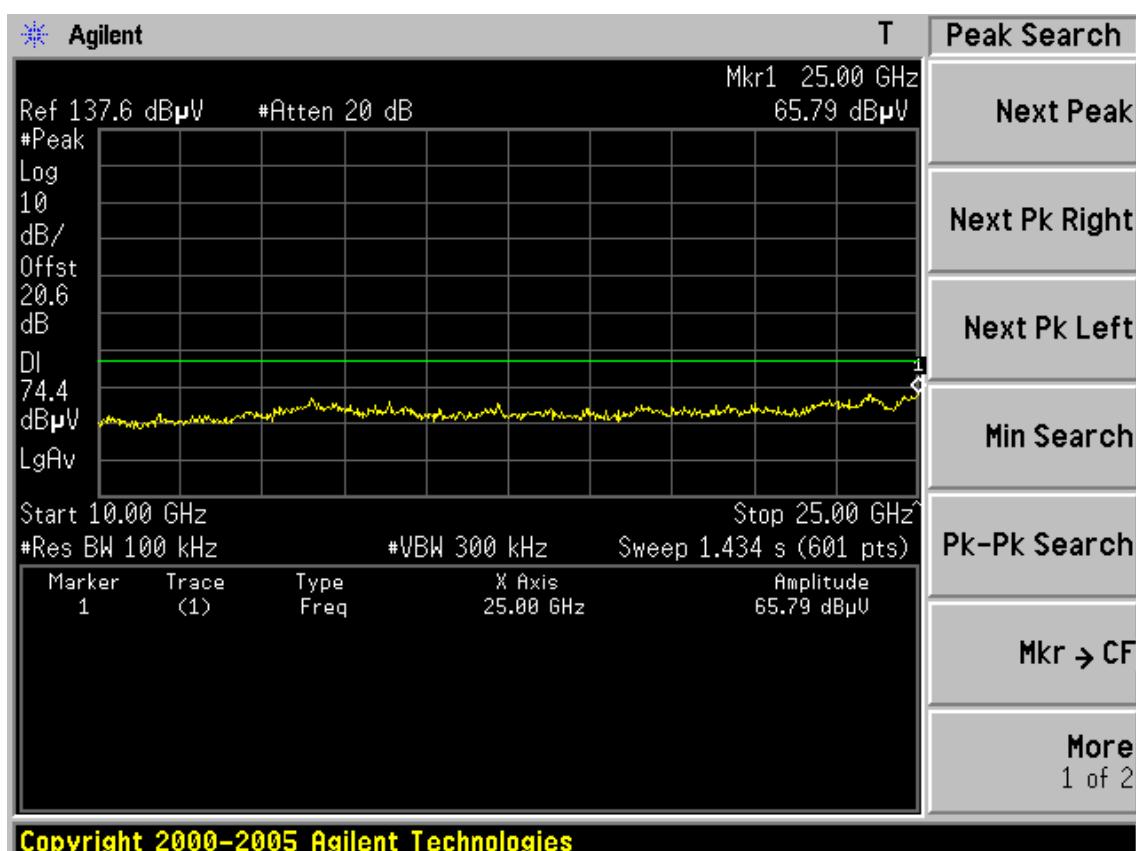


Test Mode: IEEE 802.11n HT40TX
CH3



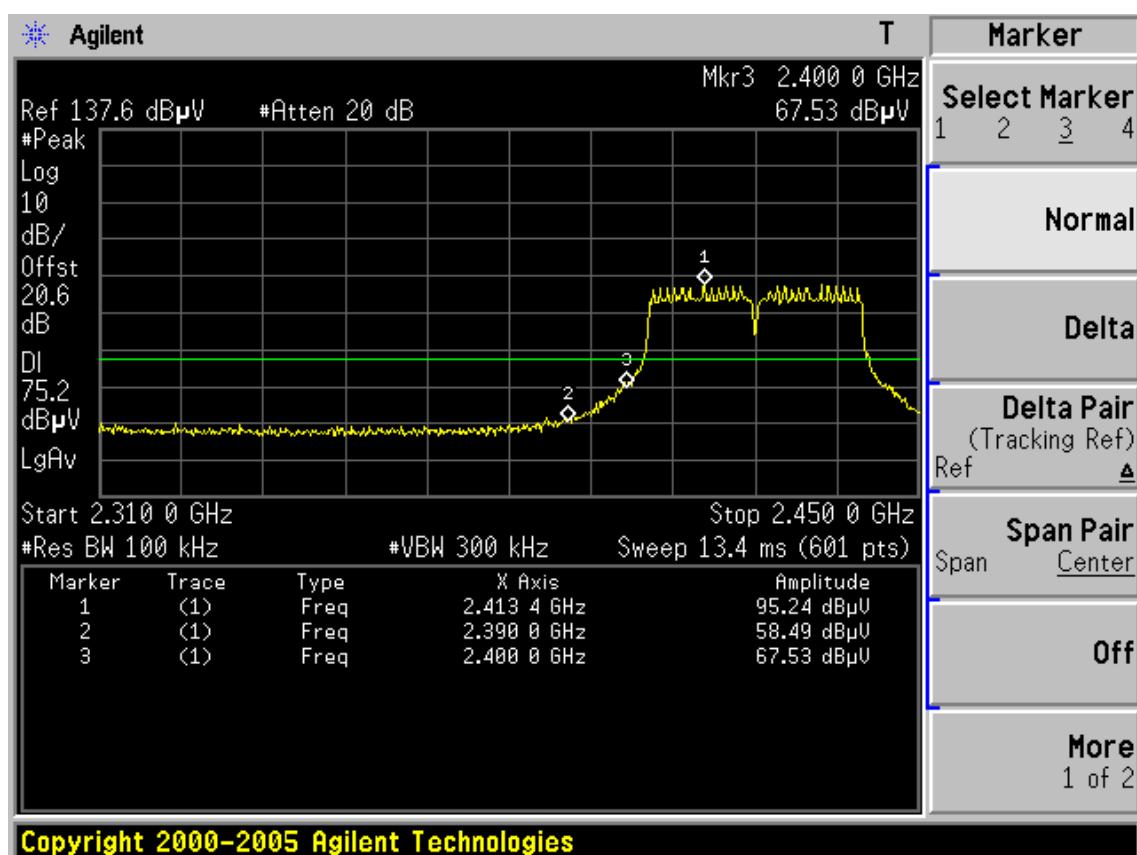
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page 5-19

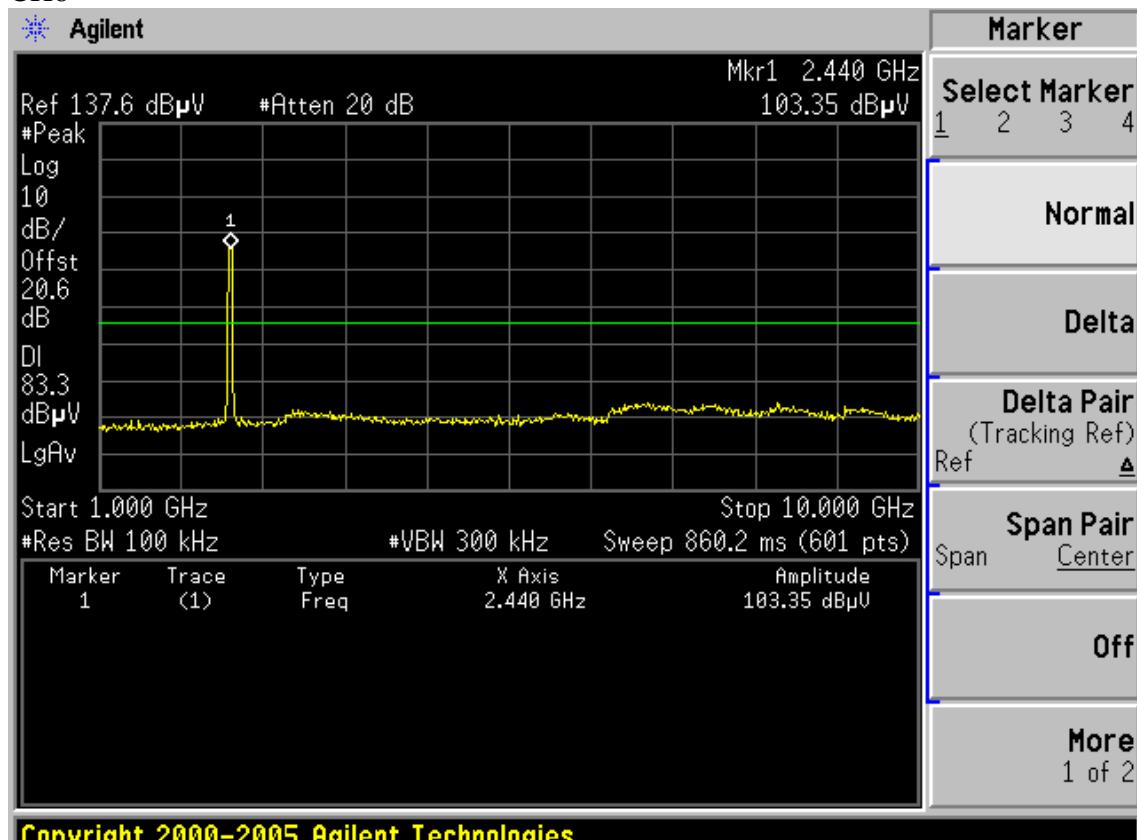


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page 5-20

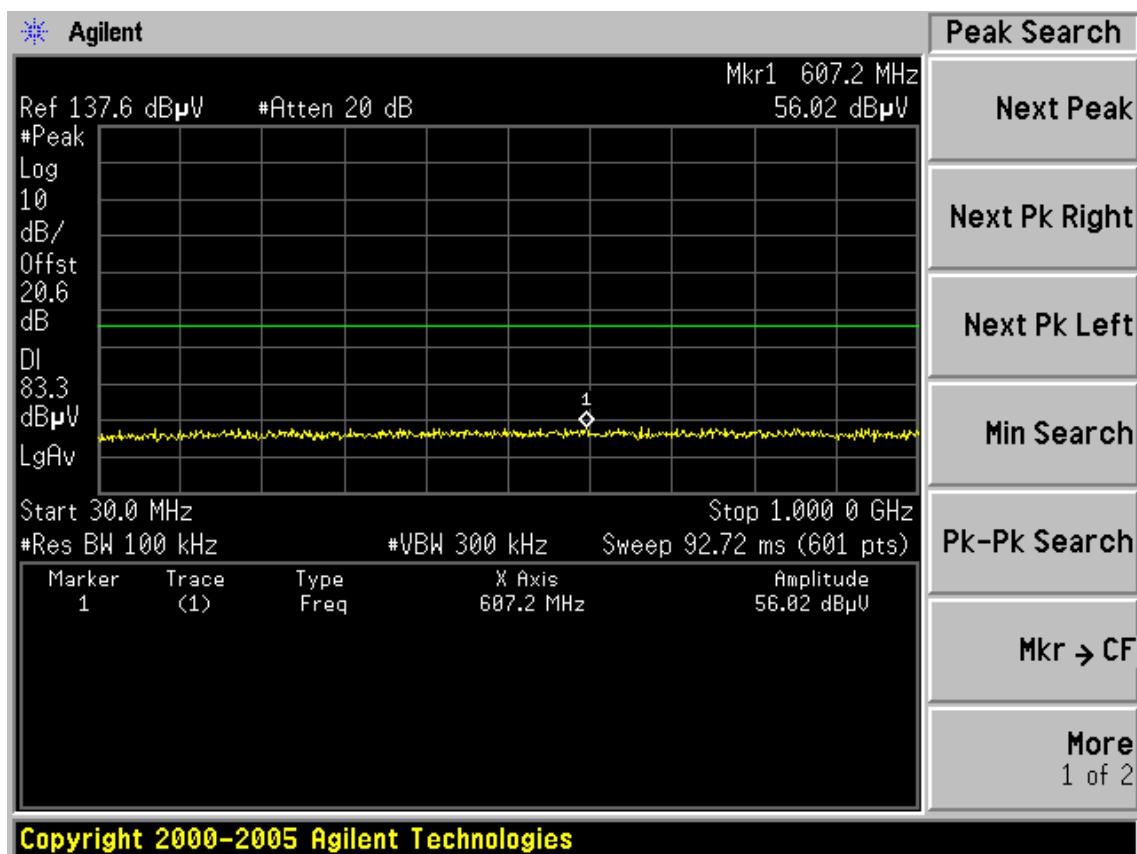
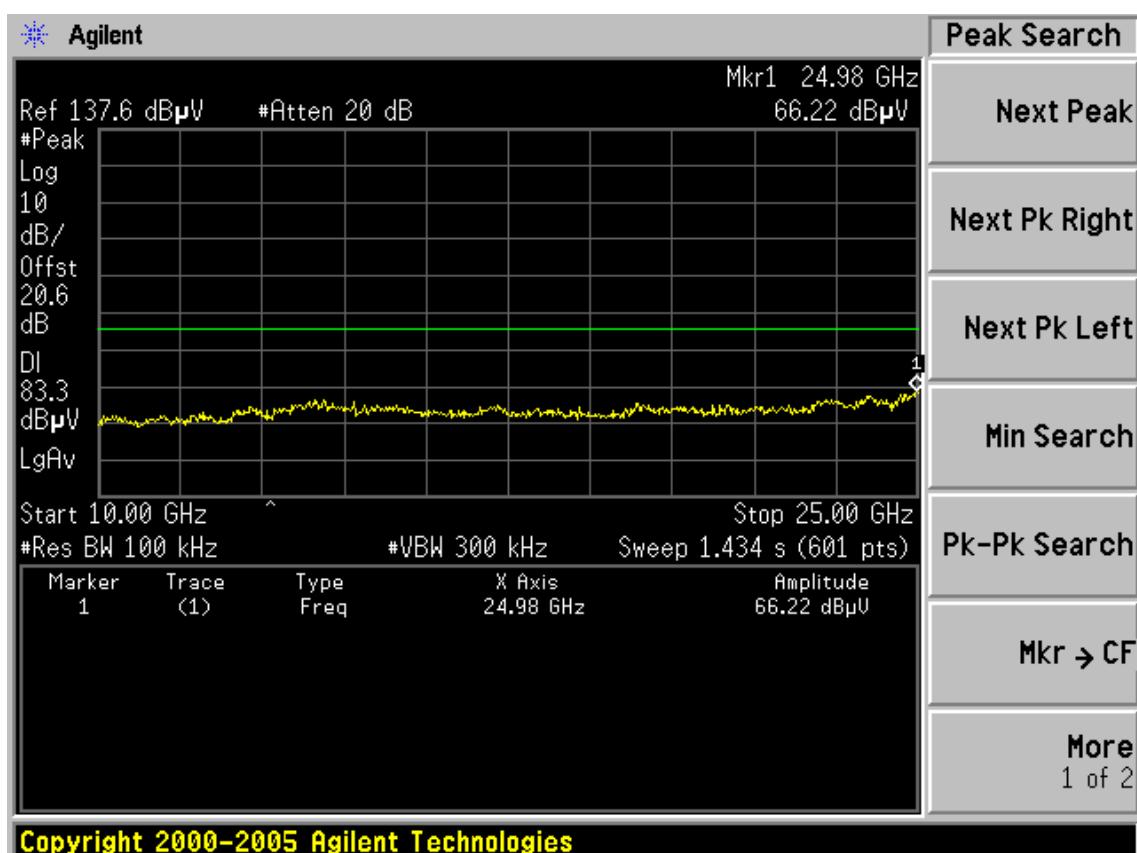


CH6



FCC ID:YZKSMCWBR14SN5

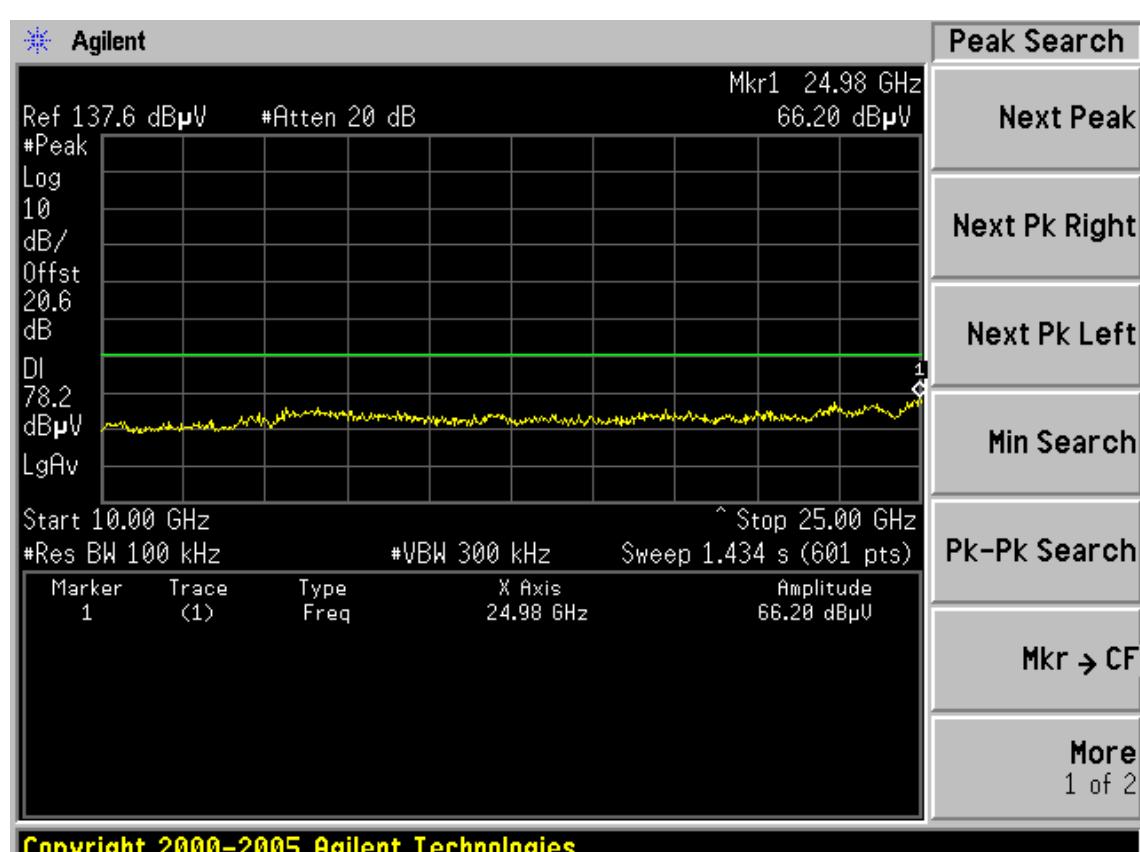
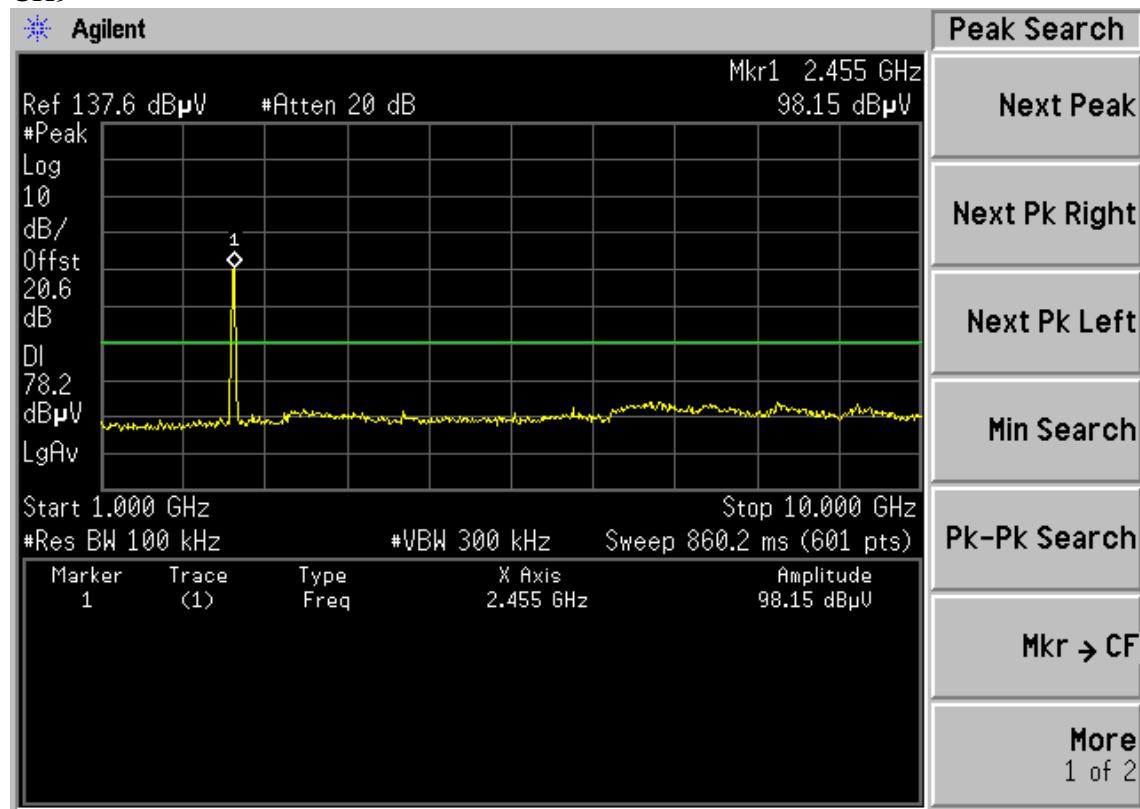
page 5-21



FCC ID:YZKSMCWBRI4SN5

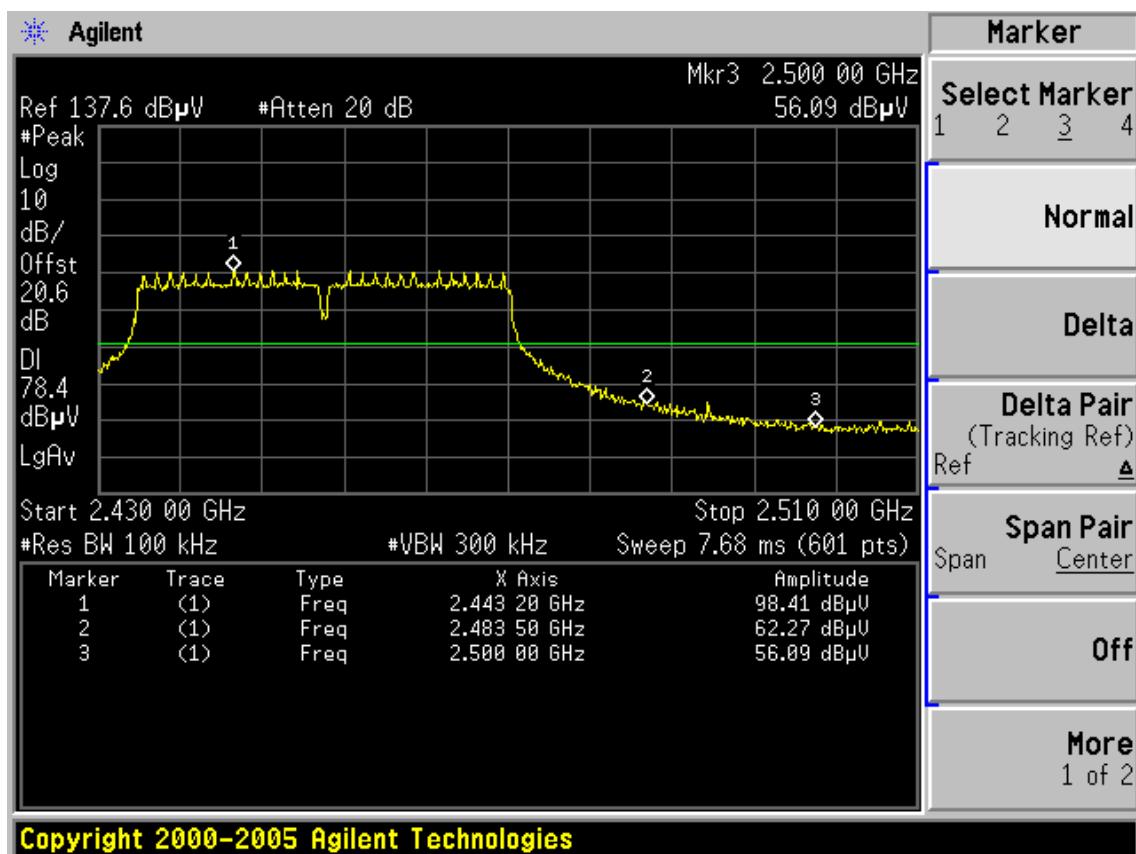
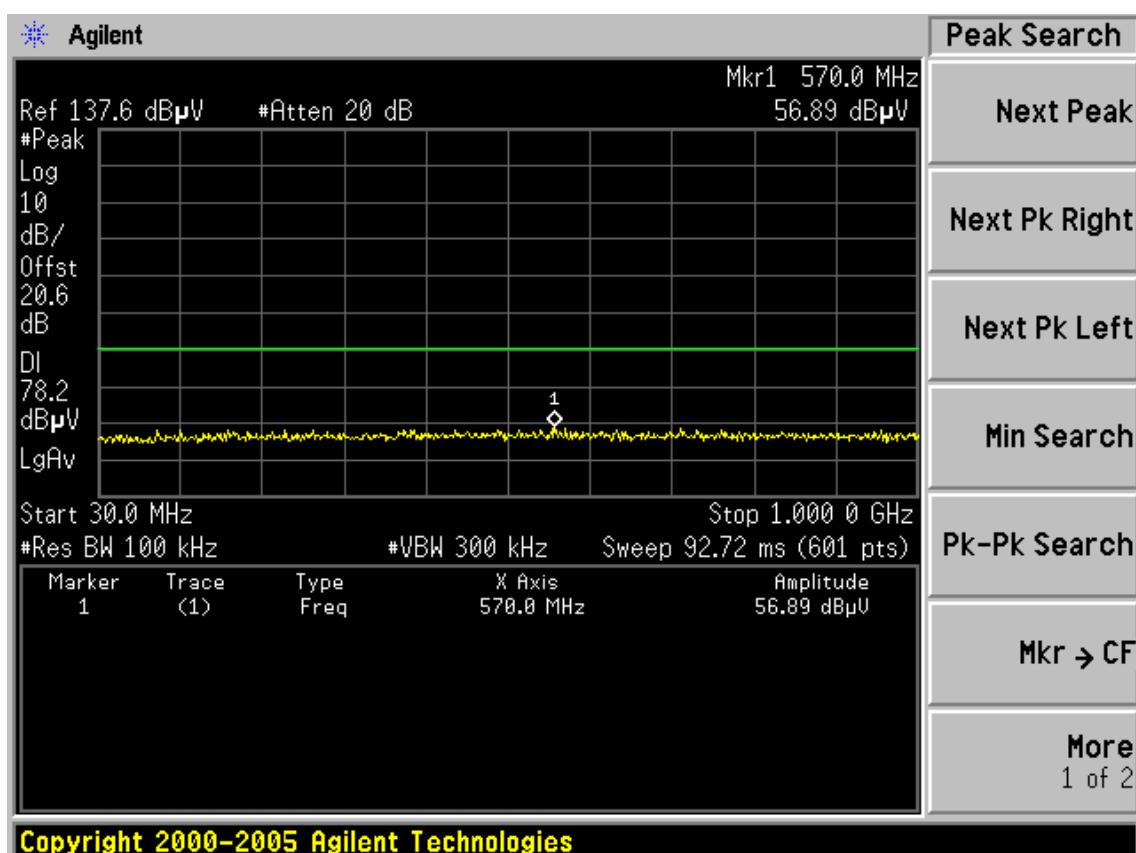
page 5-22

CH9



FCC ID:YZKSMCWBR14SN5

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6. BAND EDGE COMPLIANCE TEST

6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08,11	1 Year
2.	Horn Antenna	EMCO	3115	9607-4877	May.25, 11	1.5 Year
3.	Amplifier	Agilent	8449B	3008A02495	May.08, 11	1 Year
4.	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	May.08,11	1 Year
5.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08,11	1 Year
6.	RF Cable	Hubersuhner	SUCOFLEX102	28610/2	May.08,11	1 Year

6.2. 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.

6.3. Test Produce

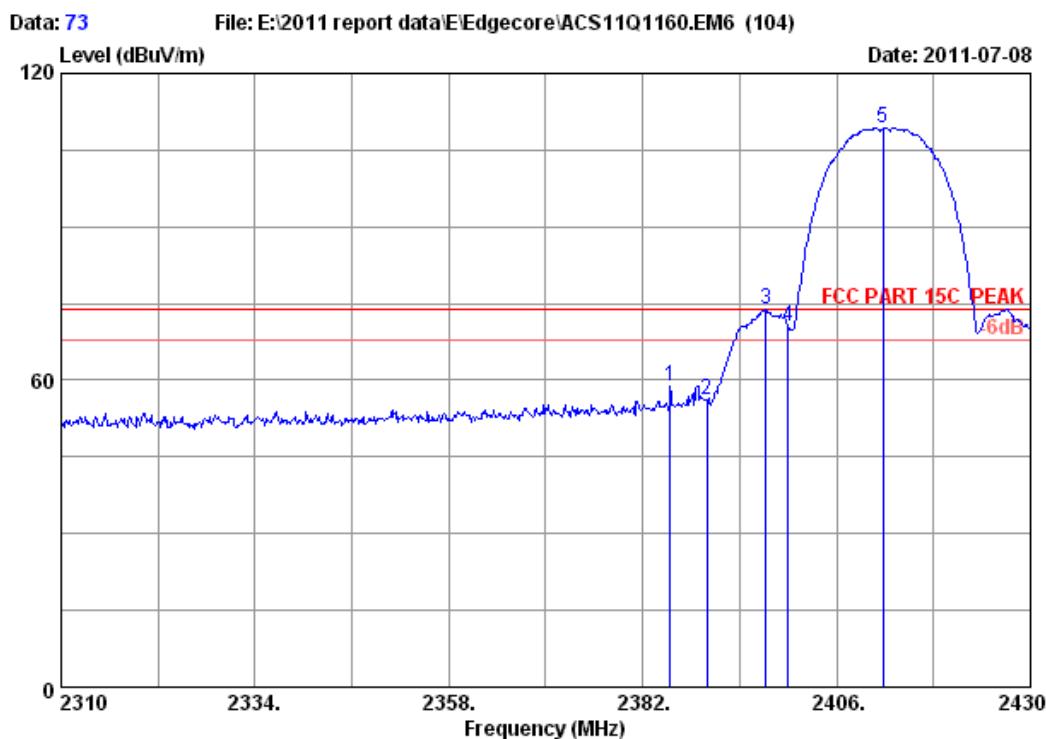
1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out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

6.4. Test Results

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

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Site no. : 3m Chamber Data no. : 73
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11b CH1 2412MHz Tx
M/N : SMCWBR14S-N5

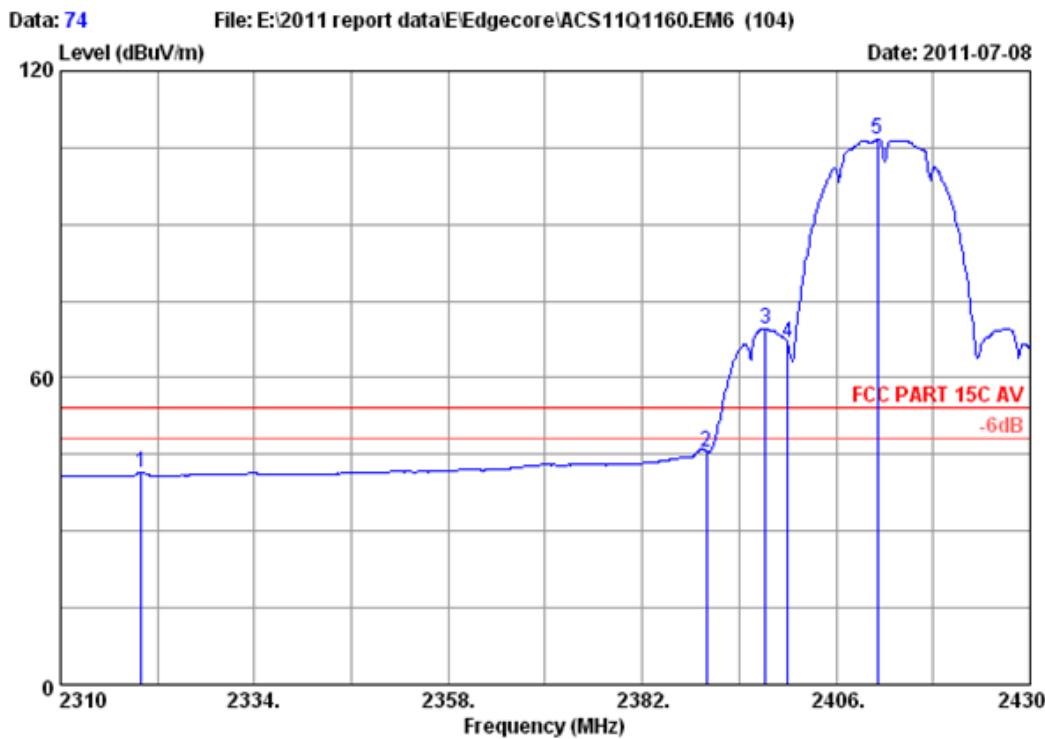
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2385.360	29.43	7.39	36.62	58.76	58.96	74.00	15.04	Peak
2 2390.000	29.44	7.39	36.62	55.98	56.19	74.00	17.81	Peak
3 2397.240	29.44	7.39	36.62	73.52	73.73	74.00	0.27	Peak
4 2400.000	29.44	7.43	36.62	70.31	70.56	74.00	3.44	Peak
5 2411.760	29.45	7.43	36.62	109.10	109.36	74.00	-35.36	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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Site no. : 3m Chamber Data no. : 74
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11b CH1 2412MHz Tx
M/N : SMCWR14S-N5

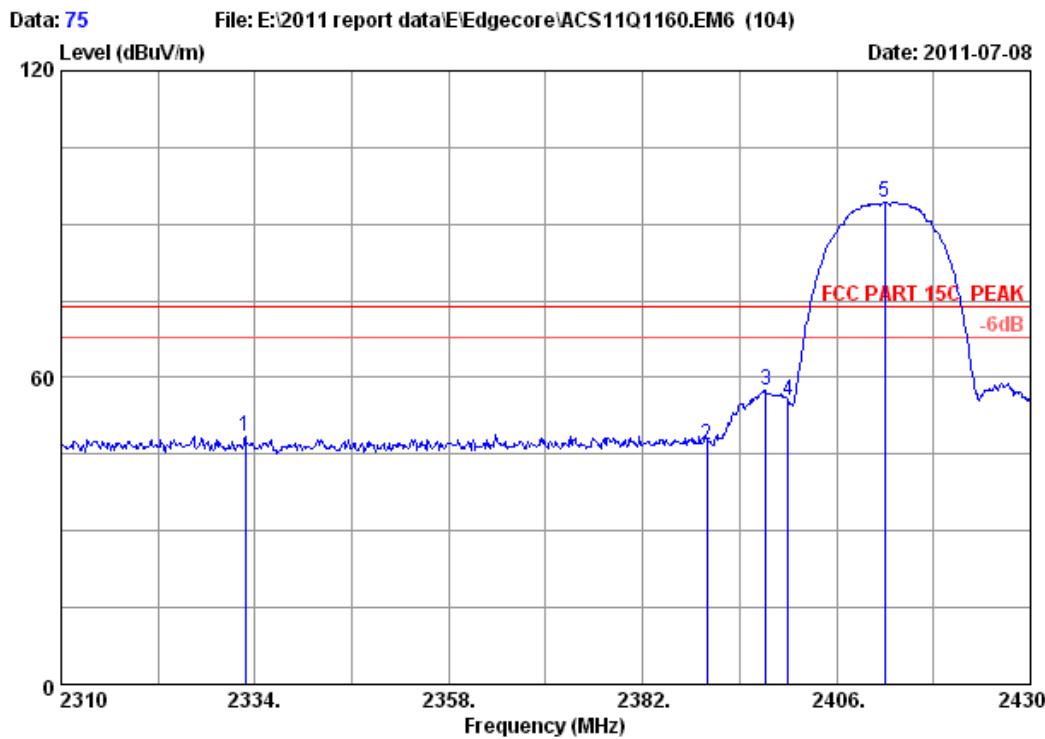
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2319.960	29.40	7.27	36.63	41.45	41.49	54.00	12.51	Average
2 2390.000	29.44	7.39	36.62	45.30	45.51	54.00	8.49	Average
3 2397.240	29.44	7.39	36.62	69.39	69.60	54.00	-15.60	Average
4 2400.000	29.44	7.43	36.62	66.63	66.88	54.00	-12.88	Average
5 2411.160	29.45	7.43	36.62	106.36	106.62	54.00	-52.62	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.

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 75
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11b CH1 2412MHz Tx
M/N : SMCWBR14S-N5

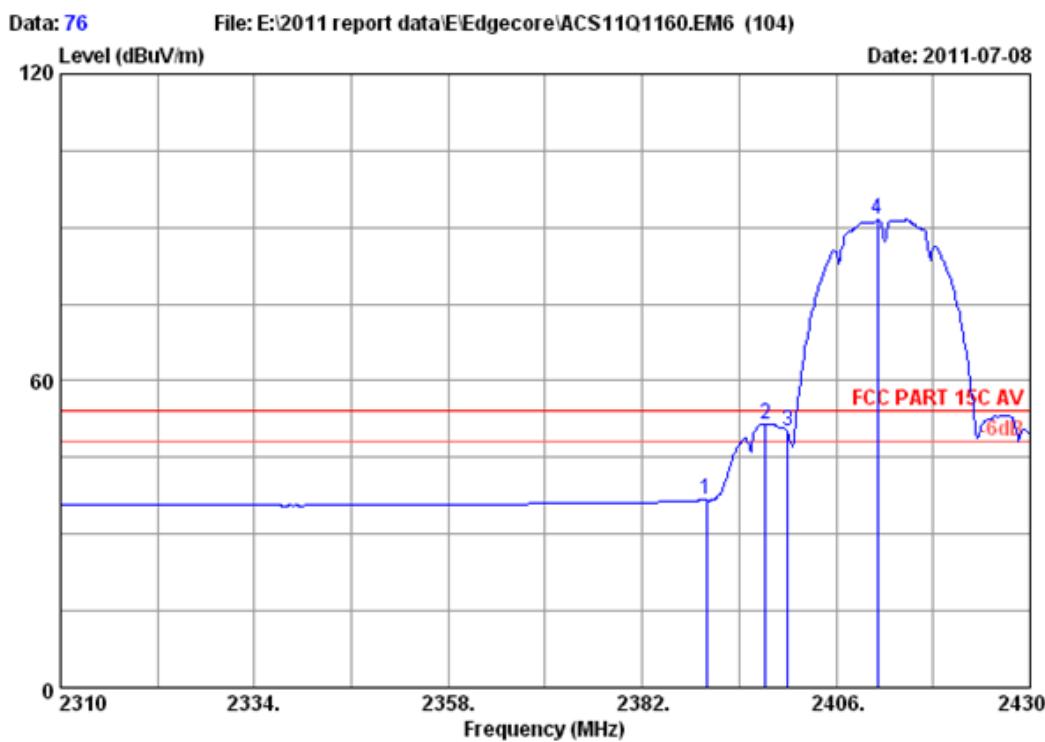
Freq. Factor (MHz)	Ant. (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2332.800	29.40	7.27	36.63	48.55	48.59	74.00	25.41	Peak
2 2390.000	29.44	7.39	36.62	46.55	46.76	74.00	27.24	Peak
3 2397.240	29.44	7.39	36.62	57.44	57.65	74.00	16.35	Peak
4 2400.000	29.44	7.43	36.62	55.13	55.38	74.00	18.62	Peak
5 2412.000	29.45	7.43	36.62	94.02	94.28	74.00	-20.28	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.

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 76
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11b CH1 2412MHz Tx
M/N : SMCWR14S-N5

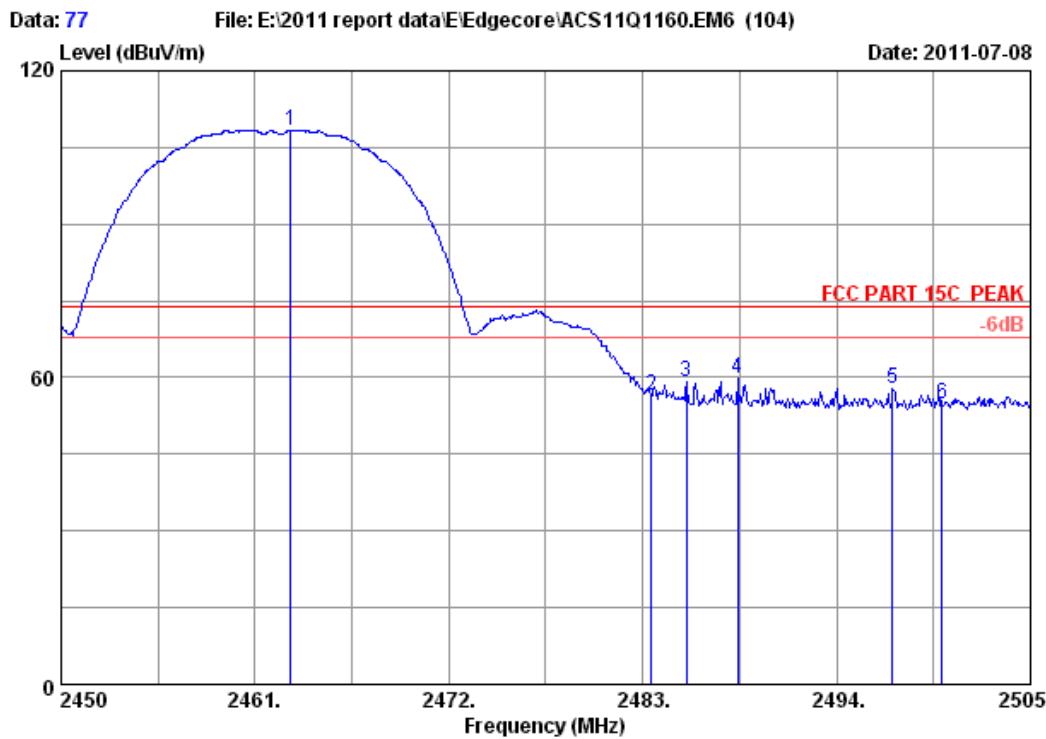
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2390.000	29.44	7.39	36.62	36.40	36.61	54.00	17.39	Average
2 2397.240	29.44	7.39	36.62	51.41	51.62	54.00	2.38	Average
3 2400.000	29.44	7.43	36.62	49.72	49.97	54.00	4.03	Average
4 2411.160	29.45	7.43	36.62	91.19	91.45	54.00	-37.45	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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Site no. : 3m Chamber Data no. : 77
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11b CH11 2462MHz Tx
M/N : SMCWBR14S-N5

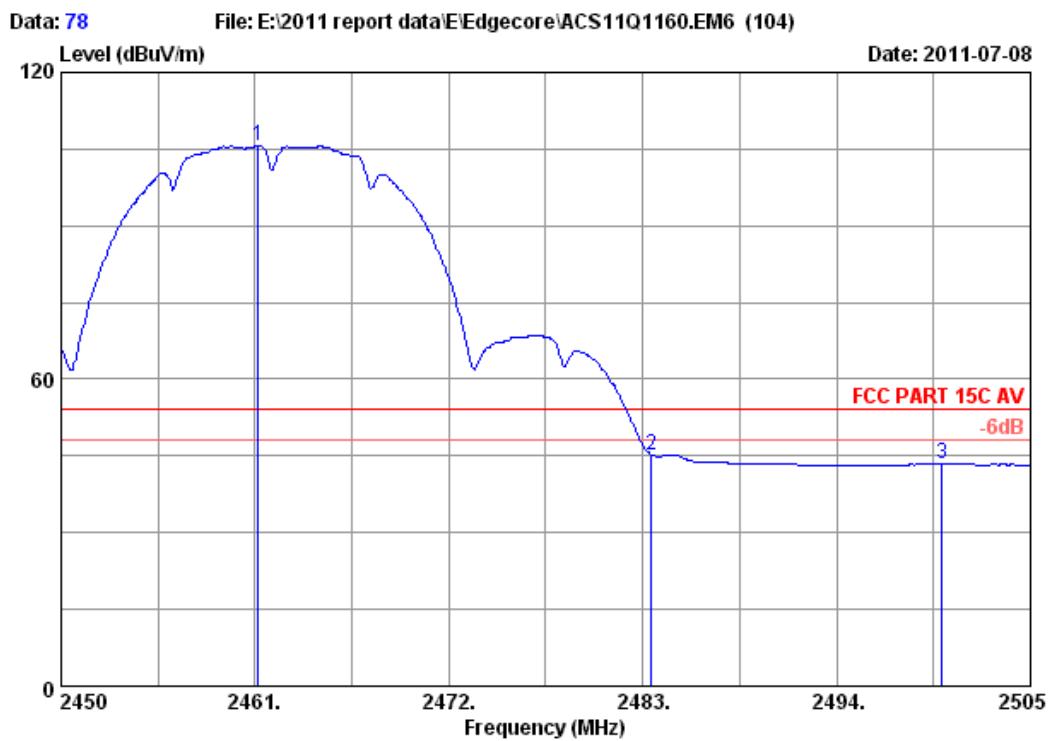
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission			
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1 2463.035	29.48	7.54	36.61	108.06	108.47	74.00	-34.47
2 2483.500	29.49	7.58	36.60	56.03	56.50	74.00	17.50
3 2485.475	29.49	7.58	36.60	58.85	59.32	74.00	14.68
4 2488.390	29.50	7.58	36.60	59.52	60.00	74.00	14.00
5 2497.190	29.50	7.58	36.60	57.36	57.84	74.00	16.16
6 2500.000	29.50	7.62	36.60	54.44	54.96	74.00	19.04

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.

FCC ID:YZKSMCWR14SN5

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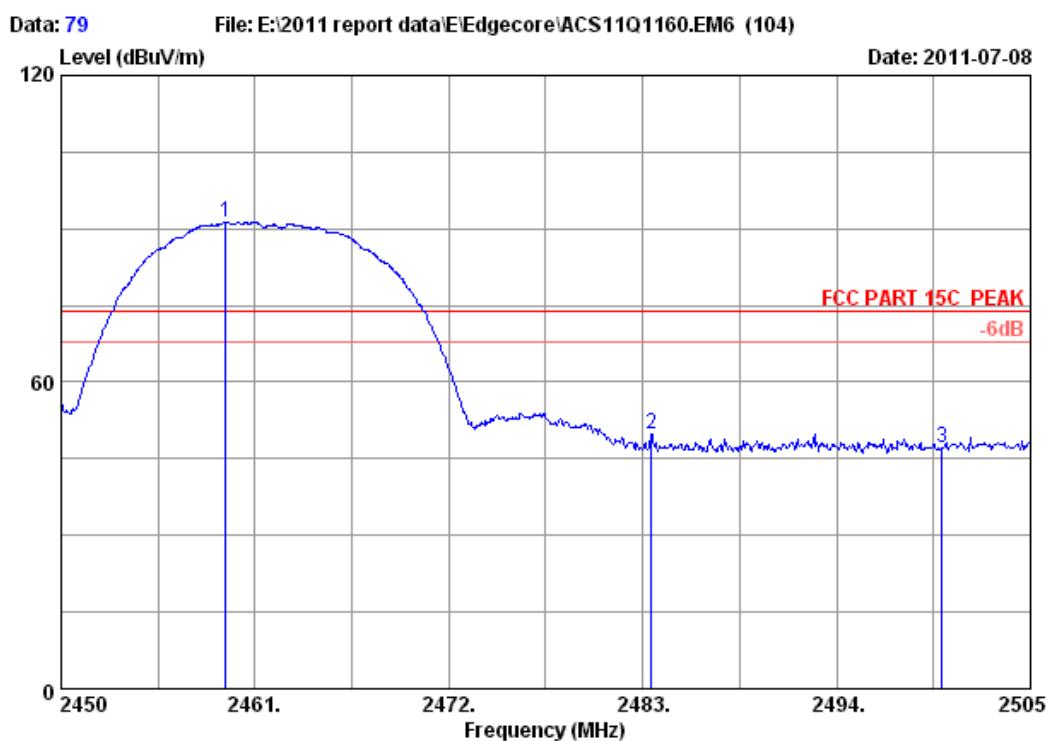
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2461.165	29.48	7.54	36.61	105.27	105.68	54.00	-51.68	Average
2 2483.500	29.49	7.58	36.60	44.73	45.20	54.00	8.80	Average
3 2500.000	29.50	7.62	36.60	42.82	43.34	54.00	10.66	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.

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 79
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11b CH11 2462MHz Tx
M/N : SMCWR14S-N5

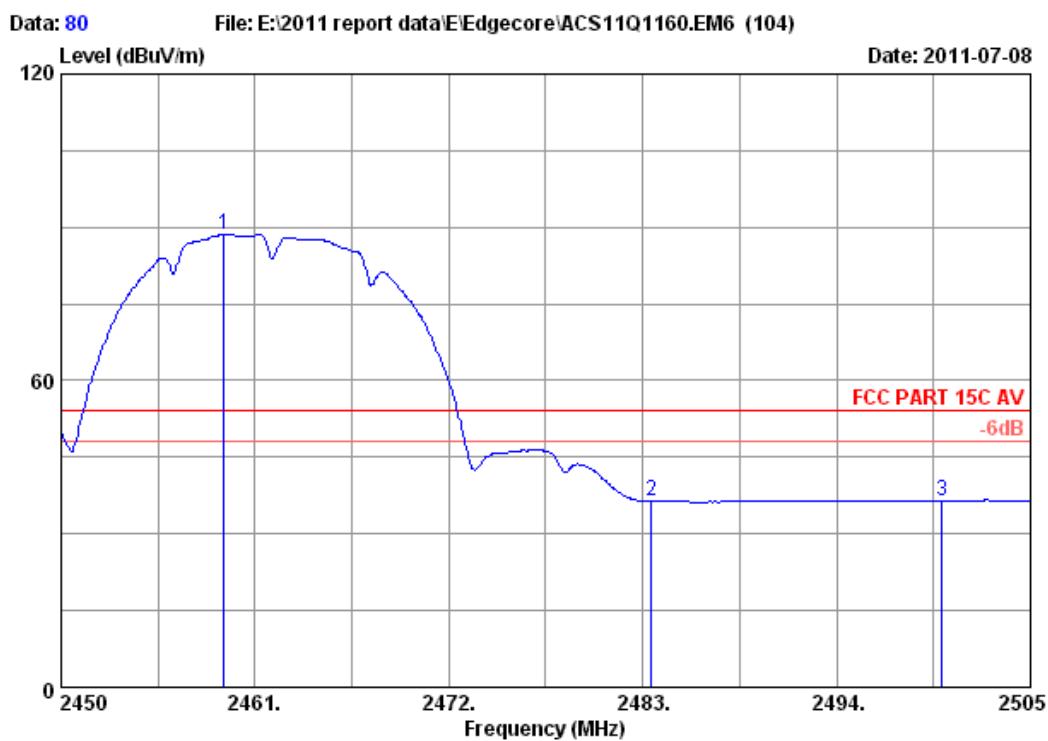
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission			
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1 2459.350	29.48	7.54	36.61	90.82	91.23	74.00	-17.23
2 2483.500	29.49	7.58	36.60	49.23	49.70	74.00	24.30
3 2500.000	29.50	7.62	36.60	46.72	47.24	74.00	26.76

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.

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 80
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11b CH11 2462MHz Tx
M/N : SMCWBR14S-N5

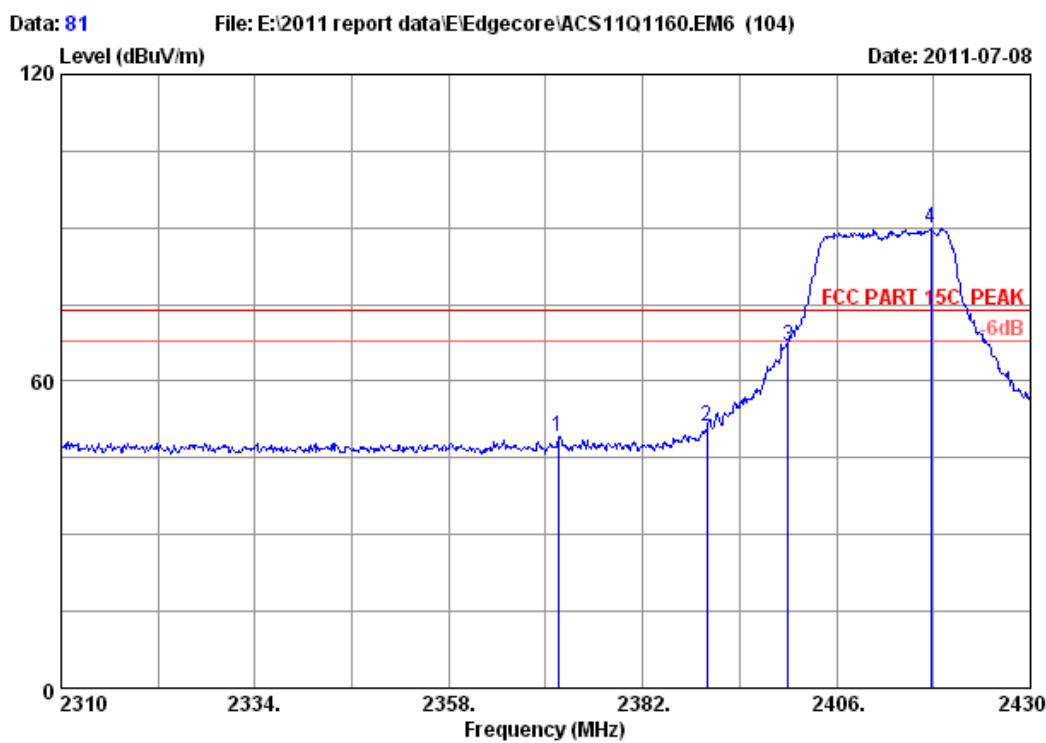
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2459.240	29.48	7.54	36.61	88.27	88.68	54.00	-34.68	Average
2 2483.500	29.49	7.58	36.60	35.88	36.35	54.00	17.65	Average
3 2500.000	29.50	7.62	36.60	36.01	36.53	54.00	17.47	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.

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 81
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11g CH1 2412MHz Tx
M/N : SMCWBR14S-N5

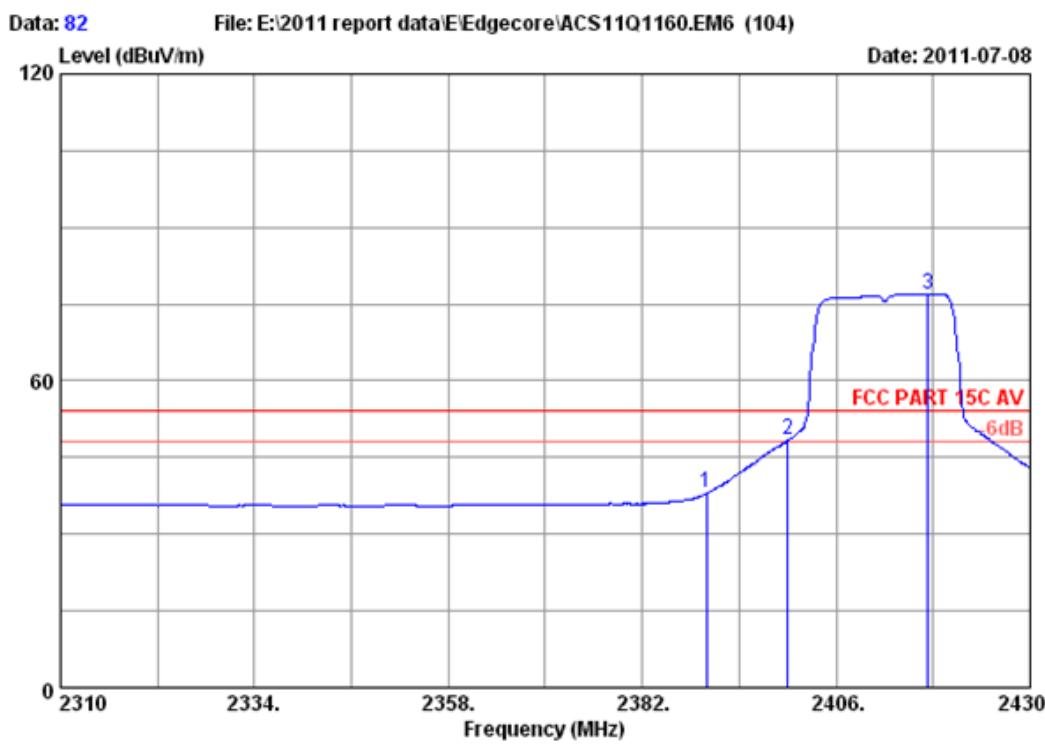
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2371.560	29.43	7.35	36.62	49.07	49.23	74.00	24.77 Peak
2	2390.000	29.44	7.39	36.62	50.99	51.20	74.00	22.80 Peak
3	2400.000	29.44	7.43	36.62	66.45	66.70	74.00	7.30 Peak
4	2417.640	29.45	7.43	36.61	89.62	89.89	74.00	-15.89 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.

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 82
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11g CH1 2412MHz Tx
M/N : SMCWR14S-N5

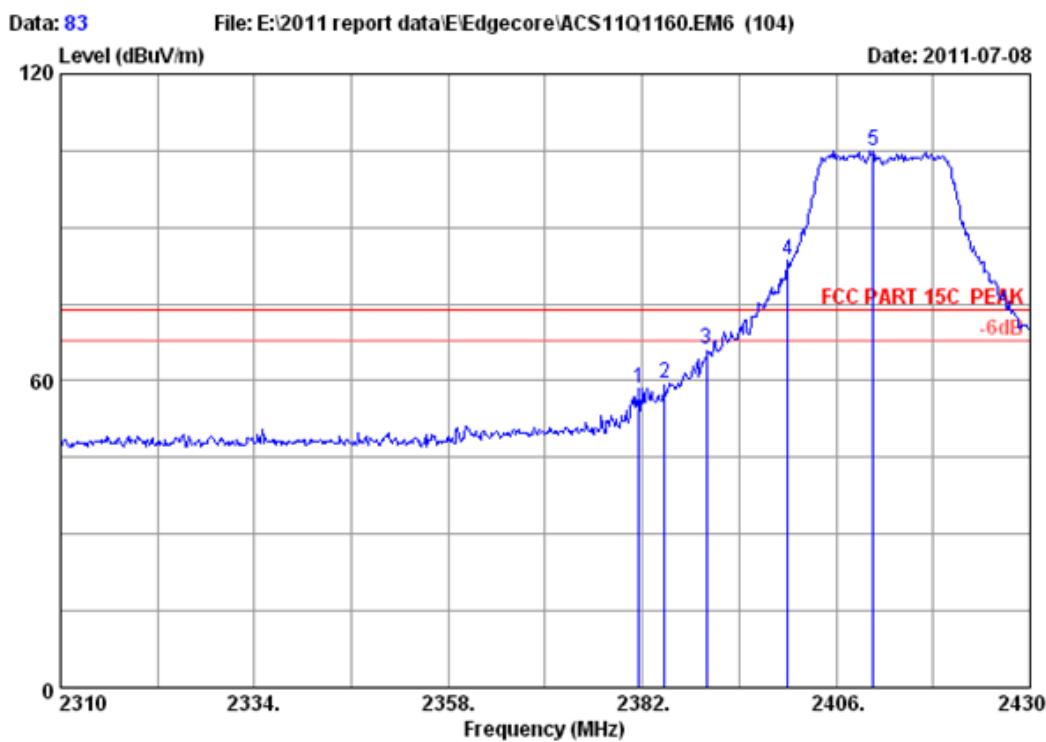
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2390.000	29.44	7.39	36.62	37.77	37.98	54.00	16.02	Average
2 2400.000	29.44	7.43	36.62	48.14	48.39	54.00	5.61	Average
3 2417.400	29.45	7.43	36.61	76.64	76.91	54.00	-22.91	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.

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 83
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11g CH1 2412MHz Tx
M/N : SMCWR14S-N5

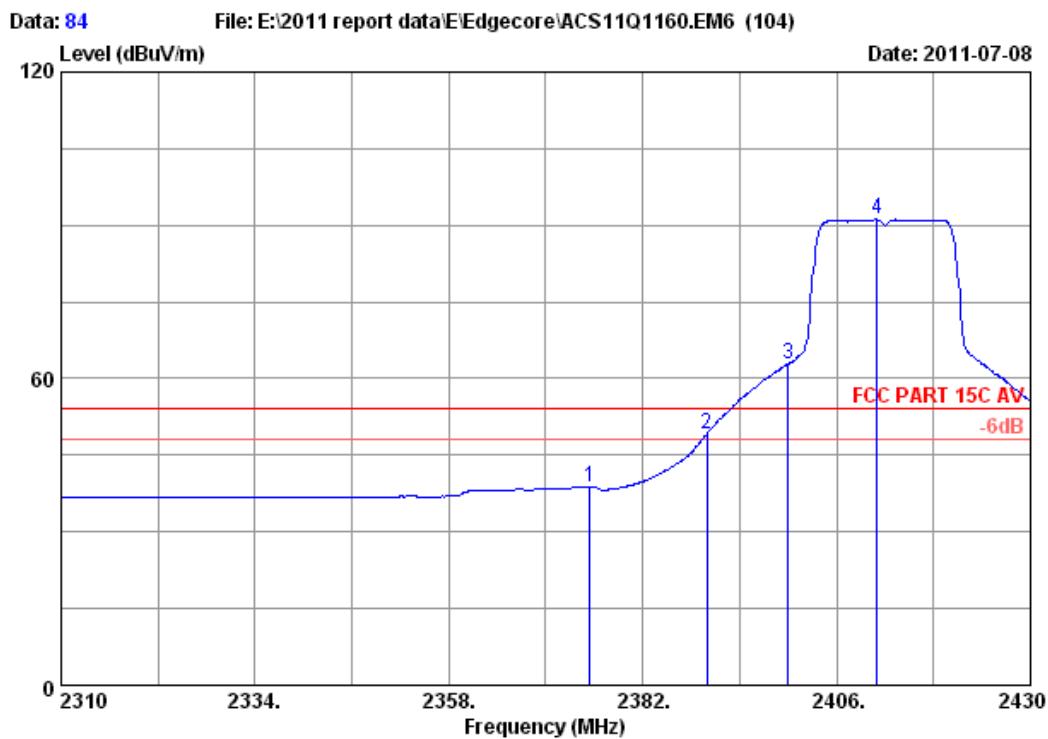
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2381.640	29.43	7.39	36.62	58.24	58.44	74.00	15.56	Peak
2 2384.760	29.43	7.39	36.62	59.22	59.42	74.00	14.58	Peak
3 2390.000	29.44	7.39	36.62	66.05	66.26	74.00	7.74	Peak
4 2400.000	29.44	7.43	36.62	83.29	83.54	74.00	-9.54	Peak
5 2410.560	29.45	7.43	36.62	104.76	105.02	74.00	-31.02	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.

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 84
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11g CH1 2412MHz Tx
M/N : SMCWBR14S-N5

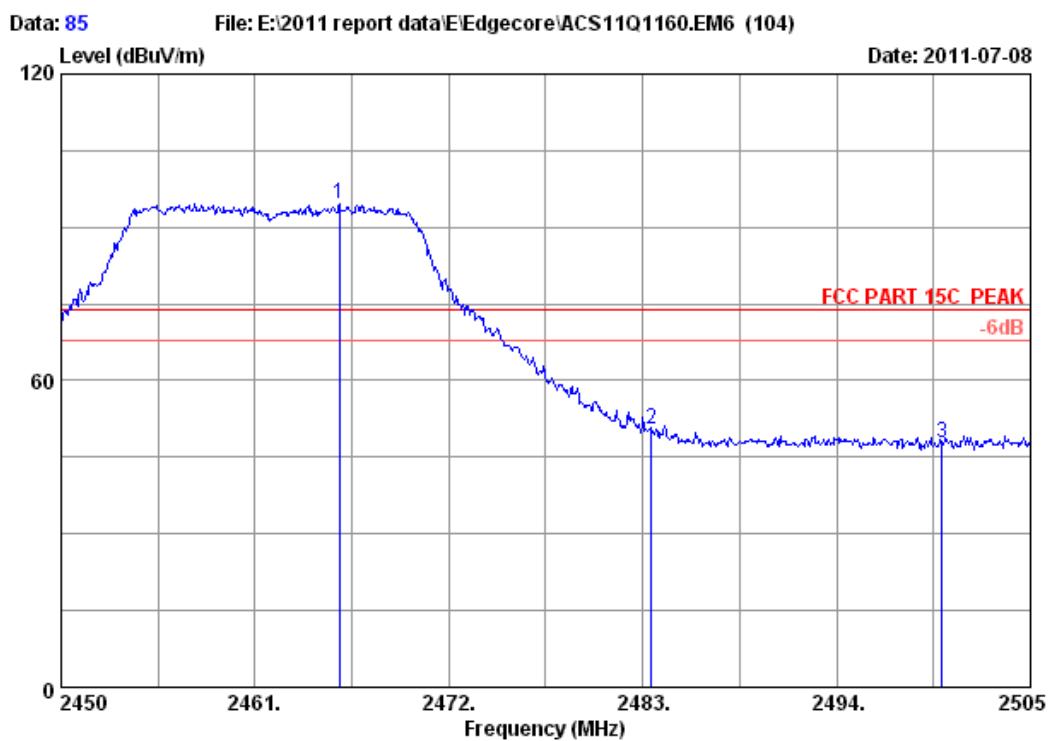
Freq. (MHz)	Factor (dB/m)	Ant. loss (dB)	Cable Factor (dB)	Amp. Factor (dB)	Emission			
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1 2375.400	29.43	7.35	36.62	38.71	38.87	54.00	15.13	Average
2 2390.000	29.44	7.39	36.62	49.06	49.27	54.00	4.73	Average
3 2400.000	29.44	7.43	36.62	62.66	62.91	54.00	-8.91	Average
4 2411.040	29.45	7.43	36.62	90.87	91.13	54.00	-37.13	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.

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 85
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz Tx
M/N : SMCWR14S-N5

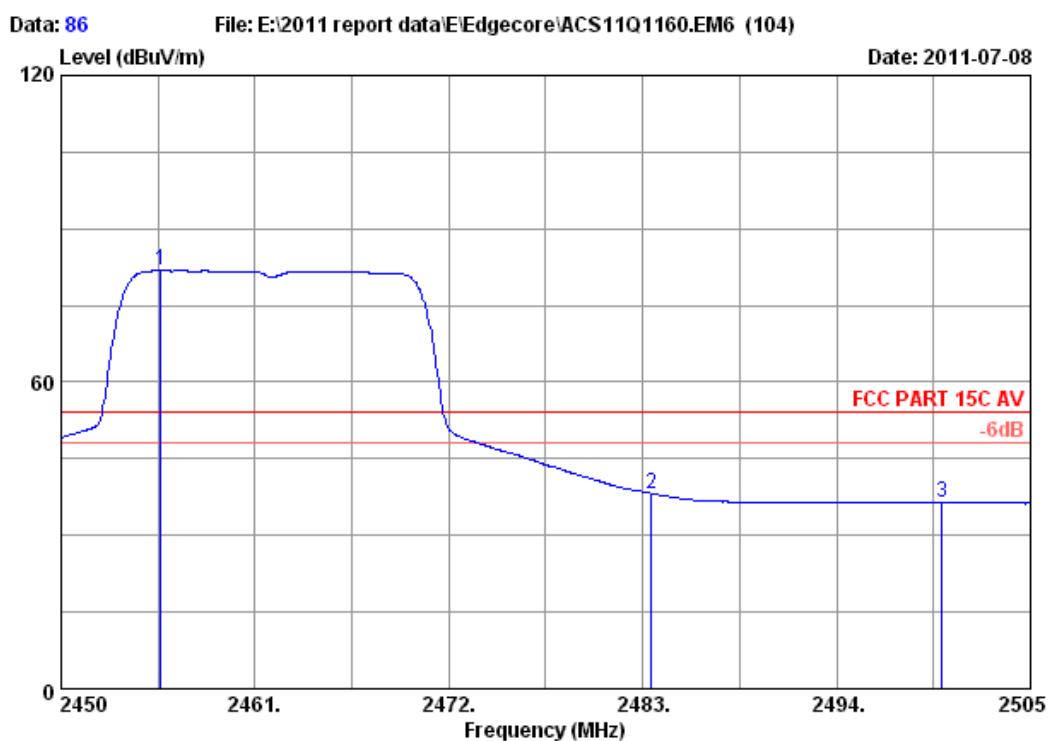
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2465.785	29.48	7.54	36.61	94.30	94.71	74.00	-20.71 Peak
2	2483.500	29.49	7.58	36.60	50.03	50.50	74.00	23.50 Peak
3	2500.000	29.50	7.62	36.60	47.29	47.81	74.00	26.19 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.

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 86
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz Tx
M/N : SMCWR14S-N5

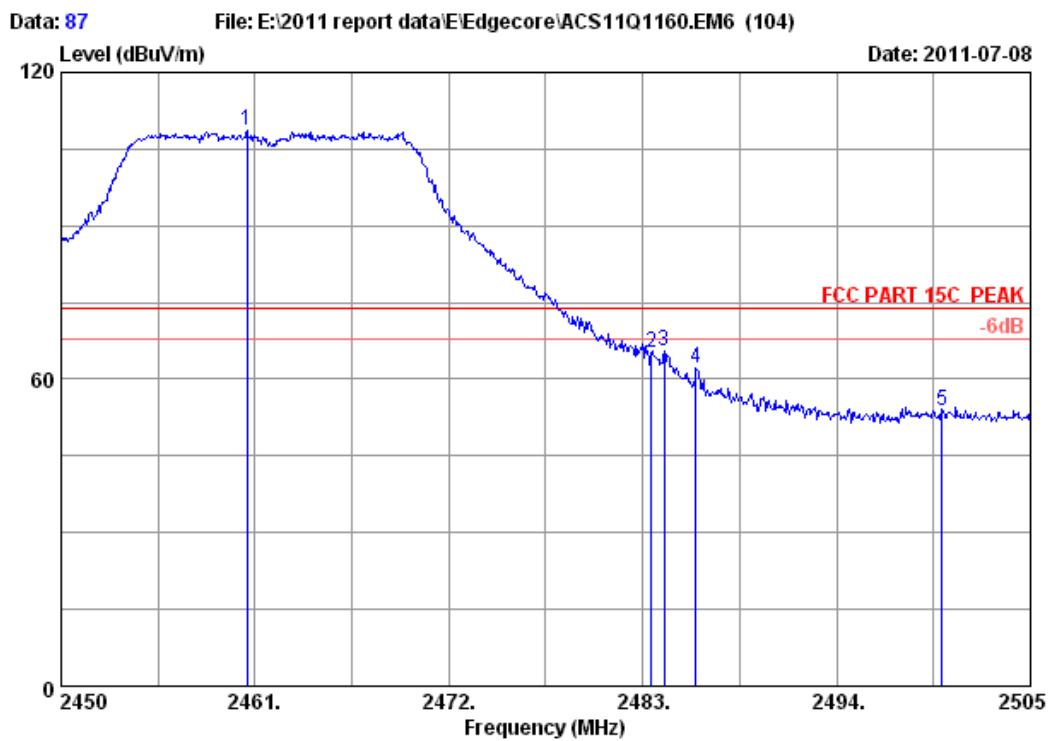
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission			
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1 2455.665	29.48	7.50	36.61	81.47	81.84	54.00	-27.84
2 2483.500	29.49	7.58	36.60	37.75	38.22	54.00	15.78
3 2500.000	29.50	7.62	36.60	35.95	36.47	54.00	17.53

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.

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 87
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz Tx
M/N : SMCWBR14S-N5

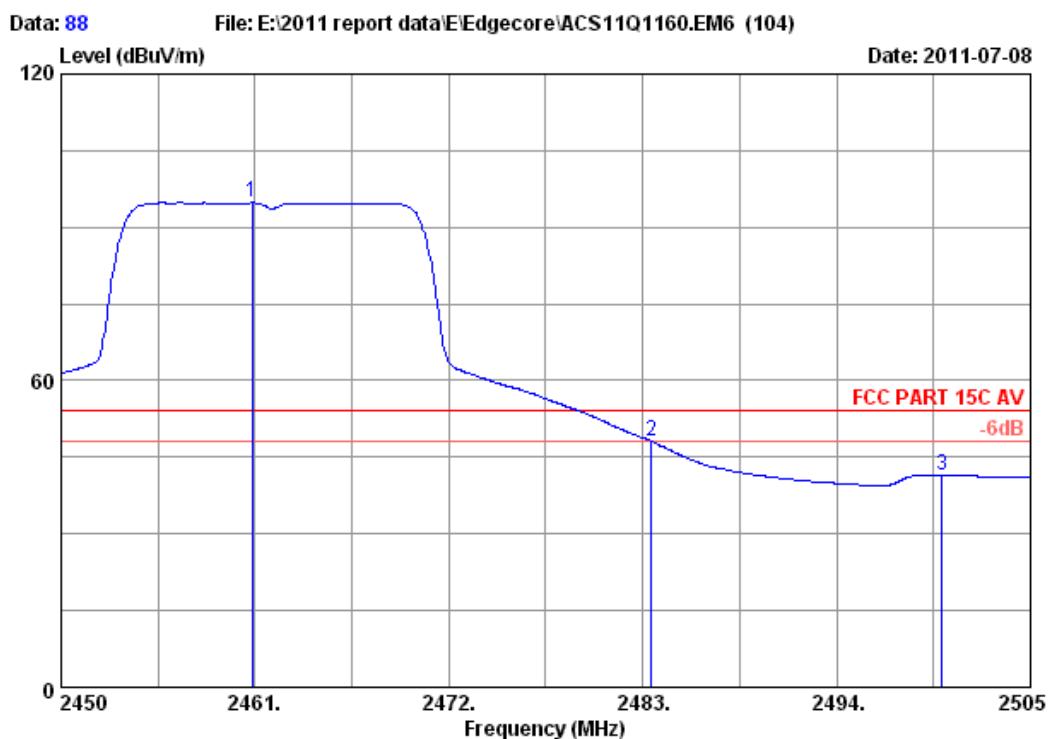
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2460.560	29.48	7.54	36.61	108.38	108.79	74.00	-34.79	Peak
2 2483.500	29.49	7.58	36.60	64.73	65.20	74.00	8.80	Peak
3 2484.210	29.49	7.58	36.60	64.88	65.35	74.00	8.65	Peak
4 2486.025	29.49	7.58	36.60	61.68	62.15	74.00	11.85	Peak
5 2500.000	29.50	7.62	36.60	53.38	53.90	74.00	20.10	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.

FCC ID:YZKSMCWR14SN5

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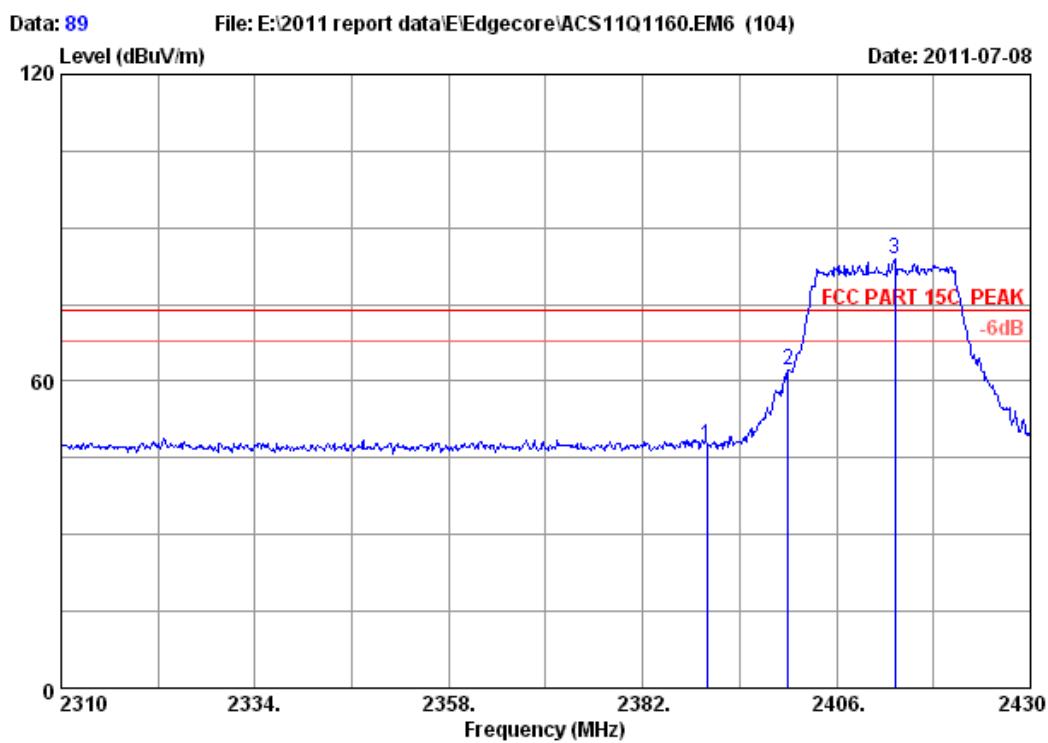
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2460.835	29.48	7.54	36.61	94.38	94.79	54.00	-40.79 Average
2	2483.500	29.49	7.58	36.60	47.65	48.12	54.00	5.88 Average
3	2500.000	29.50	7.62	36.60	40.97	41.49	54.00	12.51 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.

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 89
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT20 CH1 2412MHz Tx
M/N : SMCWBR14S-N5

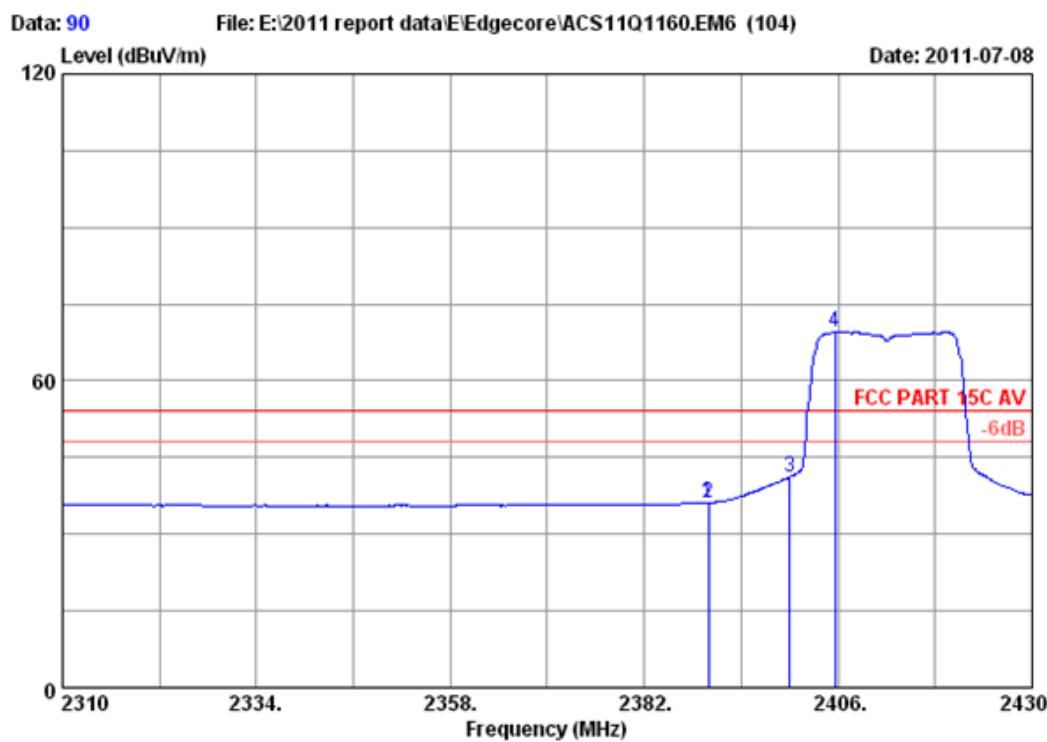
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.000	29.44	7.39	36.62	47.14	47.35	74.00	26.65 Peak
2	2400.000	29.44	7.43	36.62	62.03	62.28	74.00	11.72 Peak
3	2413.200	29.45	7.43	36.62	83.52	83.78	74.00	-9.78 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.

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 90
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT20 CH1 2412MHz Tx
M/N : SMCWR14S-N5

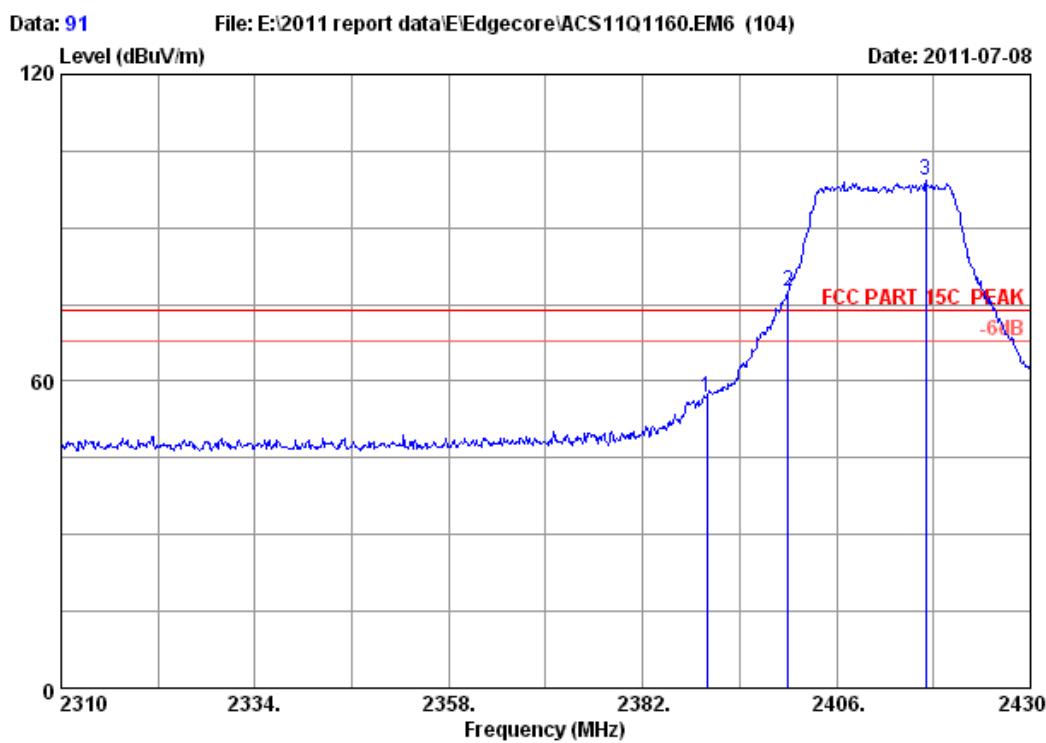
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2390.000	29.44	7.39	36.62	35.92	36.13	54.00	17.87	Average
2 2390.000	29.44	7.39	36.62	35.92	36.13	54.00	17.87	Average
3 2400.000	29.44	7.43	36.62	40.98	41.23	54.00	12.77	Average
4 2405.640	29.45	7.43	36.62	69.27	69.53	54.00	-15.53	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.

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 91
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT20 CH1 2412MHz Tx
M/N : SMCWBR14S-N5

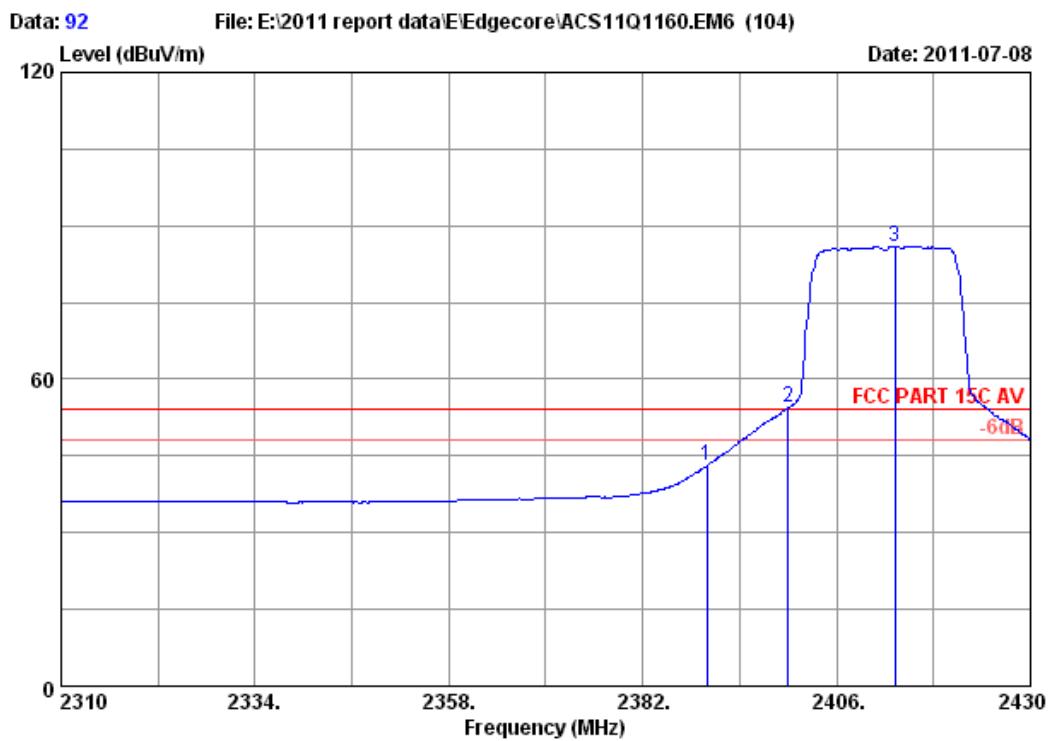
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.000	29.44	7.39	36.62	56.47	56.68	74.00	17.32 Peak
2	2400.000	29.44	7.43	36.62	77.14	77.39	74.00	-3.39 Peak
3	2417.040	29.45	7.43	36.61	99.08	99.35	74.00	-25.35 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.

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 92
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT20 CH1 2412MHz Tx
M/N : SMCWR14S-N5

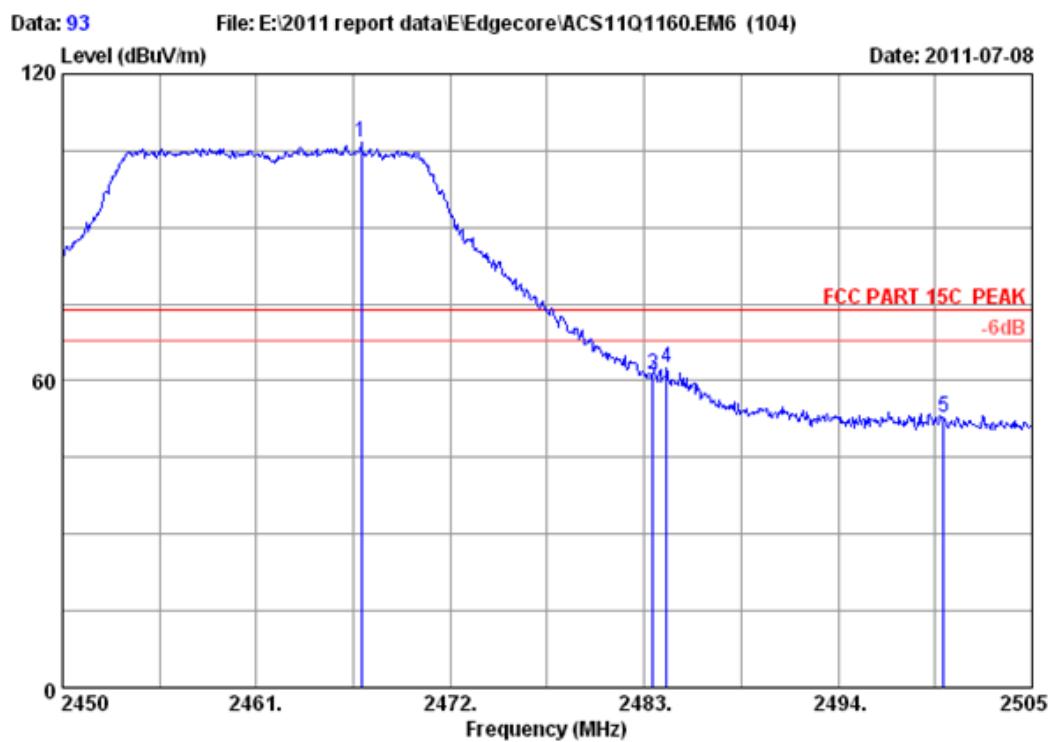
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.000	29.44	7.39	36.62	42.94	43.15	54.00	10.85 Average
2	2400.000	29.44	7.43	36.62	54.15	54.40	54.00	-0.40 Average
3	2413.200	29.45	7.43	36.62	85.74	86.00	54.00	-32.00 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.

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 93
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT20 CH11 2462MHz Tx
M/N : SMCWR14S-N5

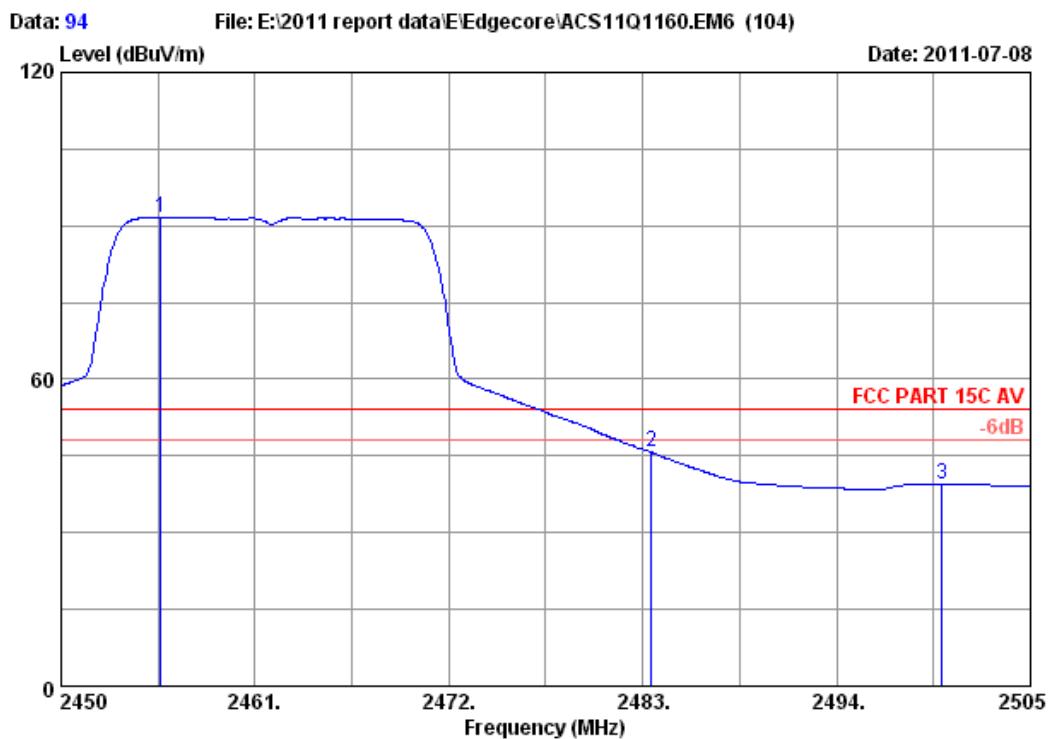
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2466.940	29.48	7.54	36.60	106.25	106.67	74.00	-32.67	Peak
2 2483.500	29.49	7.58	36.60	60.58	61.05	74.00	12.95	Peak
3 2483.500	29.49	7.58	36.60	60.58	61.05	74.00	12.95	Peak
4 2484.265	29.49	7.58	36.60	62.19	62.66	74.00	11.34	Peak
5 2500.000	29.50	7.62	36.60	52.13	52.65	74.00	21.35	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.

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 94
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT20 CH11 2462MHz Tx
M/N : SMCWBR14S-N5

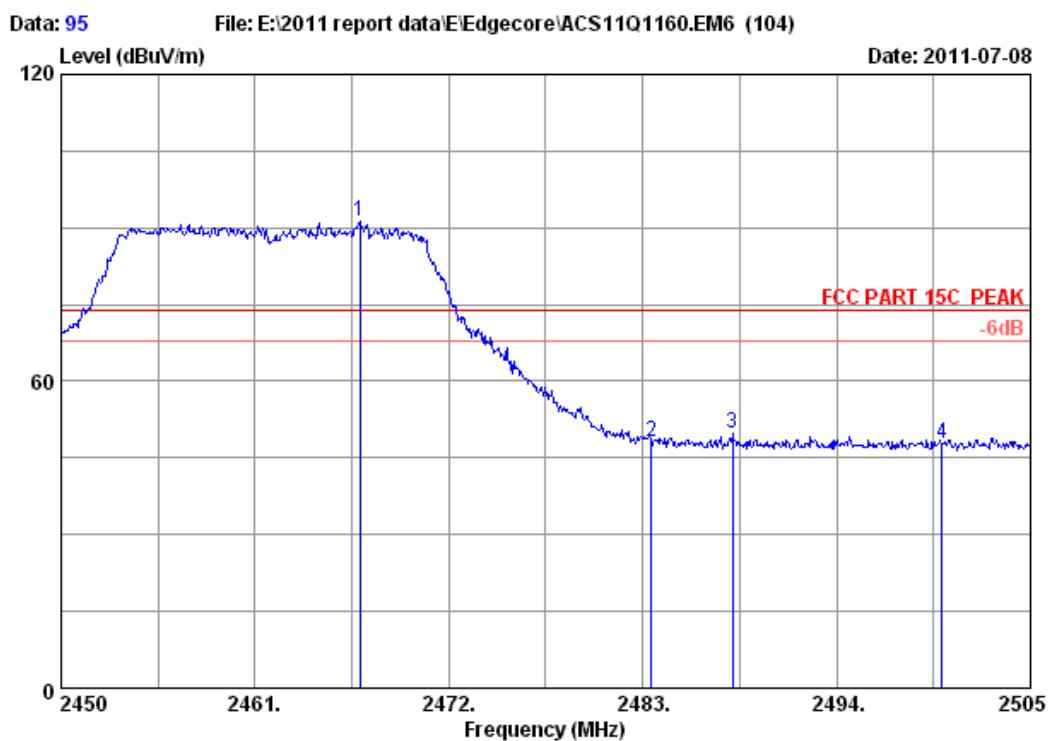
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2455.665	29.48	7.50	36.61	91.34	91.71	54.00	-37.71 Average
2	2483.500	29.49	7.58	36.60	45.24	45.71	54.00	8.29 Average
3	2500.000	29.50	7.62	36.60	38.93	39.45	54.00	14.55 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.

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 95
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT20 CH11 2462MHz Tx
M/N : SMCWBR14S-N5

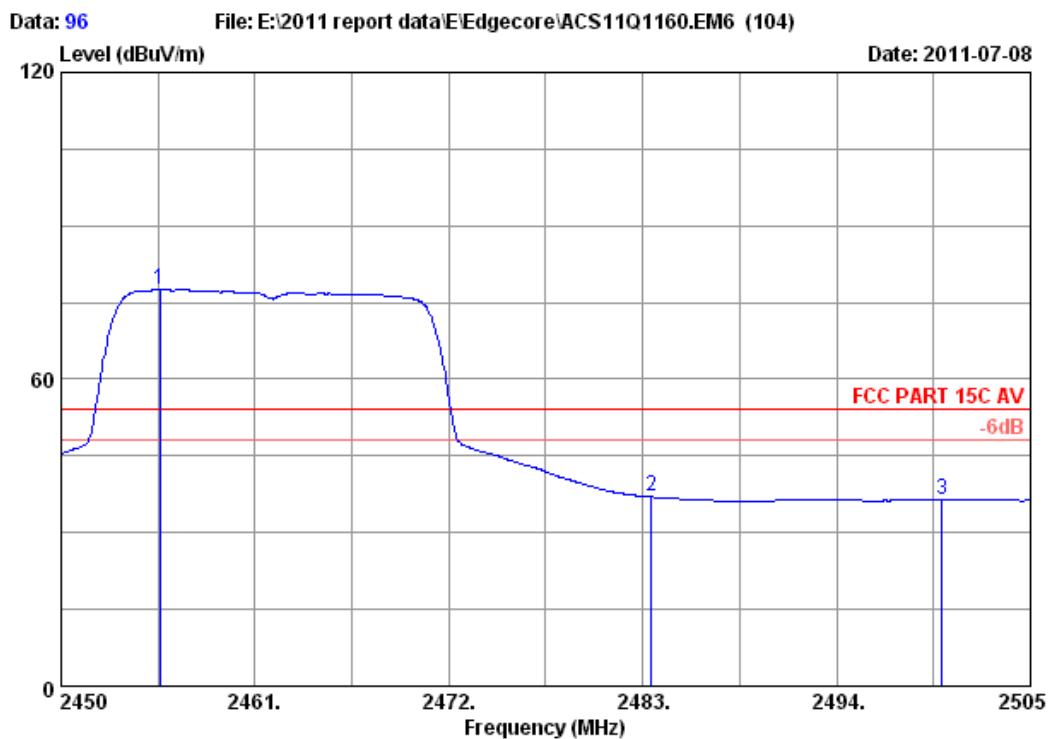
	Ant.	Cable	Amp.	Emission			
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)
1	2466.940	29.48	7.54	36.60	90.67	91.09	74.00 -17.09 Peak
2	2483.500	29.49	7.58	36.60	47.51	47.98	74.00 26.02 Peak
3	2488.115	29.50	7.58	36.60	49.20	49.68	74.00 24.32 Peak
4	2500.000	29.50	7.62	36.60	47.19	47.71	74.00 26.29 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.

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 96
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT20 CH11 2462MHz Tx
M/N : SMCWBR14S-N5

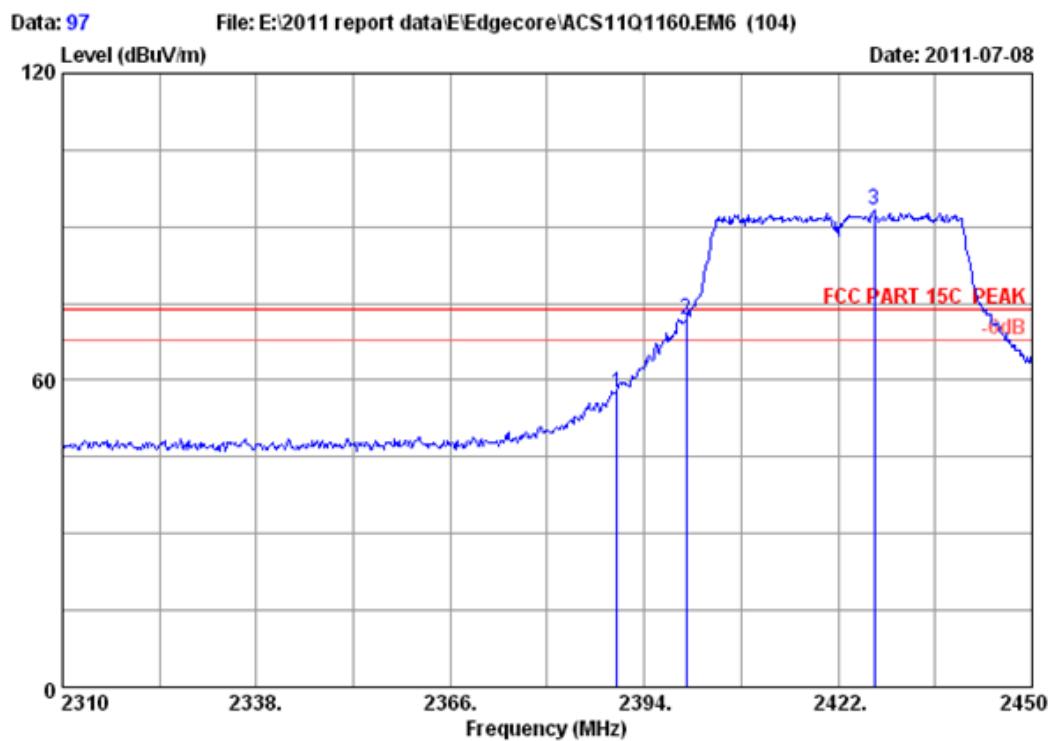
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2455.610	29.48	7.50	36.61	77.16	77.53	54.00	-23.53 Average
2	2483.500	29.49	7.58	36.60	36.50	36.97	54.00	17.03 Average
3	2500.000	29.50	7.62	36.60	35.76	36.28	54.00	17.72 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.

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 97
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT40 CH1 2422MHz Tx
M/N : SMCWR14S-N5

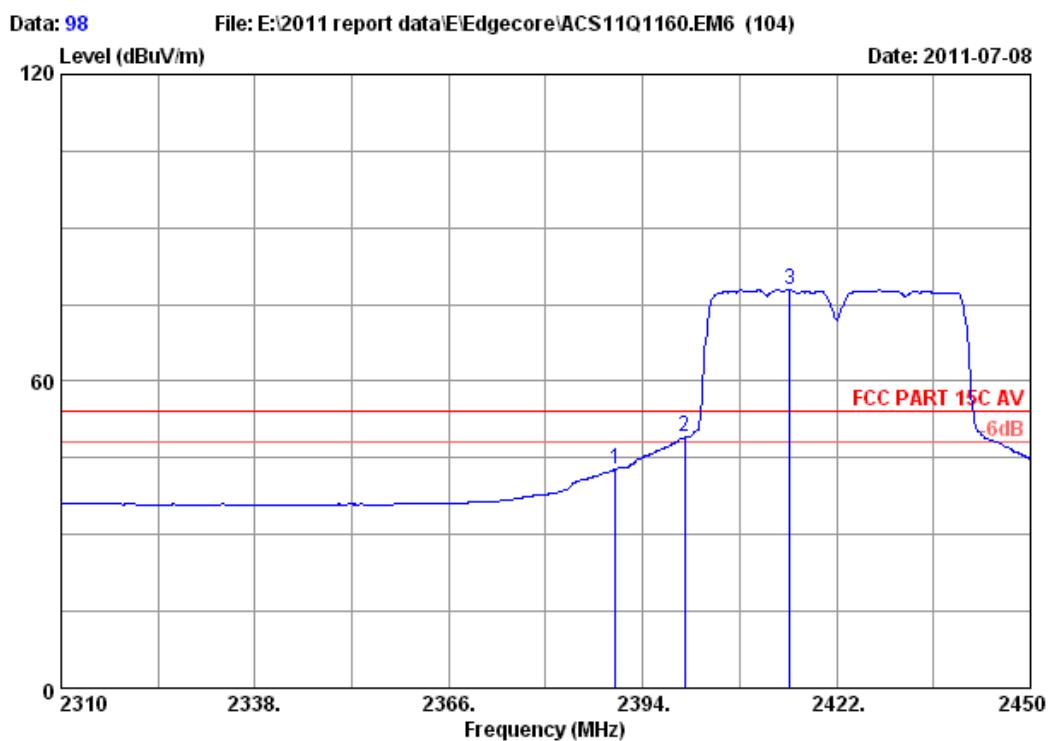
Freq. (MHz)	Factor (dB/m)	Ant. loss (dB)	Cable Factor (dB)	Amp. Factor (dB)	Emission			
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1 2390.000	29.44	7.39	36.62	57.29	57.50	74.00	16.50	Peak
2 2400.000	29.44	7.43	36.62	71.46	71.71	74.00	2.29	Peak
3 2427.180	29.46	7.46	36.61	92.96	93.27	74.00	-19.27	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.

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 98
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT40 CH1 2422MHz Tx
M/N : SMCWR14S-N5

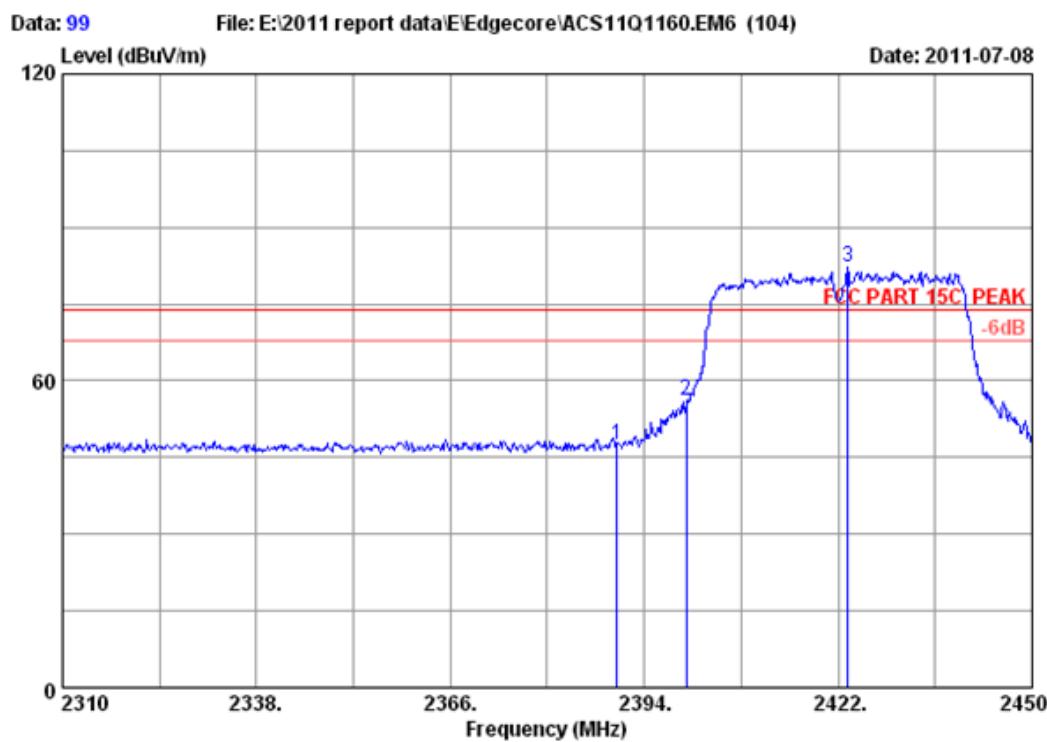
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.000	29.44	7.39	36.62	42.48	42.69	54.00	11.31 Average
2	2400.000	29.44	7.43	36.62	48.73	48.98	54.00	5.02 Average
3	2415.280	29.45	7.43	36.61	77.59	77.86	54.00	-23.86 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.

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 99
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT40 CH1 2422MHz Tx
M/N : SMCWR14S-N5

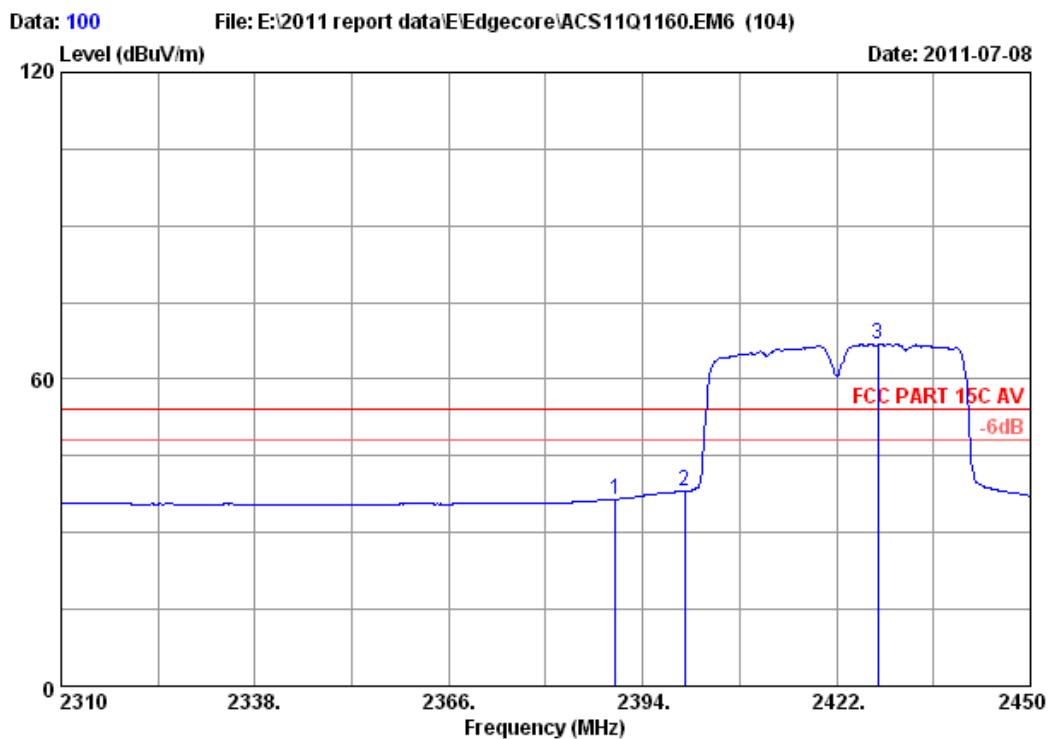
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2390.000	29.44	7.39	36.62	47.29	47.50	74.00	26.50	Peak
2 2400.000	29.44	7.43	36.62	55.88	56.13	74.00	17.87	Peak
3 2423.400	29.46	7.46	36.61	81.77	82.08	74.00	-8.08	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.

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 100
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT40 CH1 2422MHz Tx
M/N : SMCWR14S-N5

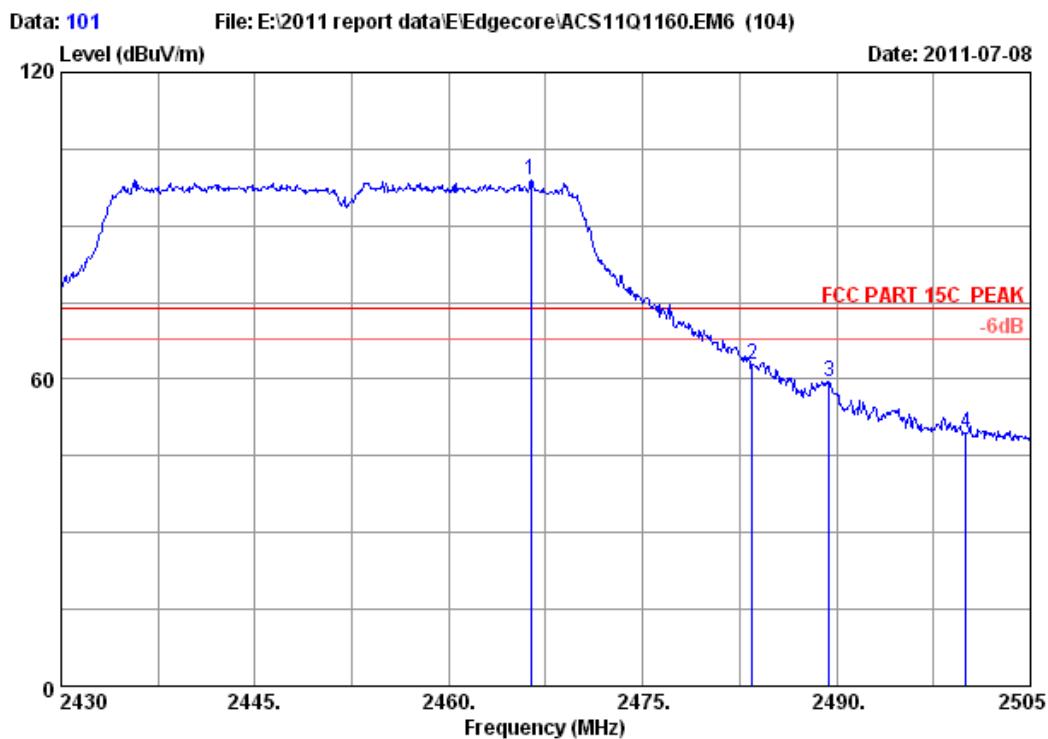
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2390.000	29.44	7.39	36.62	36.34	36.55	54.00	17.45	Average
2 2400.000	29.44	7.43	36.62	37.90	38.15	54.00	15.85	Average
3 2428.020	29.46	7.46	36.61	66.60	66.91	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.

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 101
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT40 CH7 2452MHz Tx
M/N : SMCWBR14S-N5

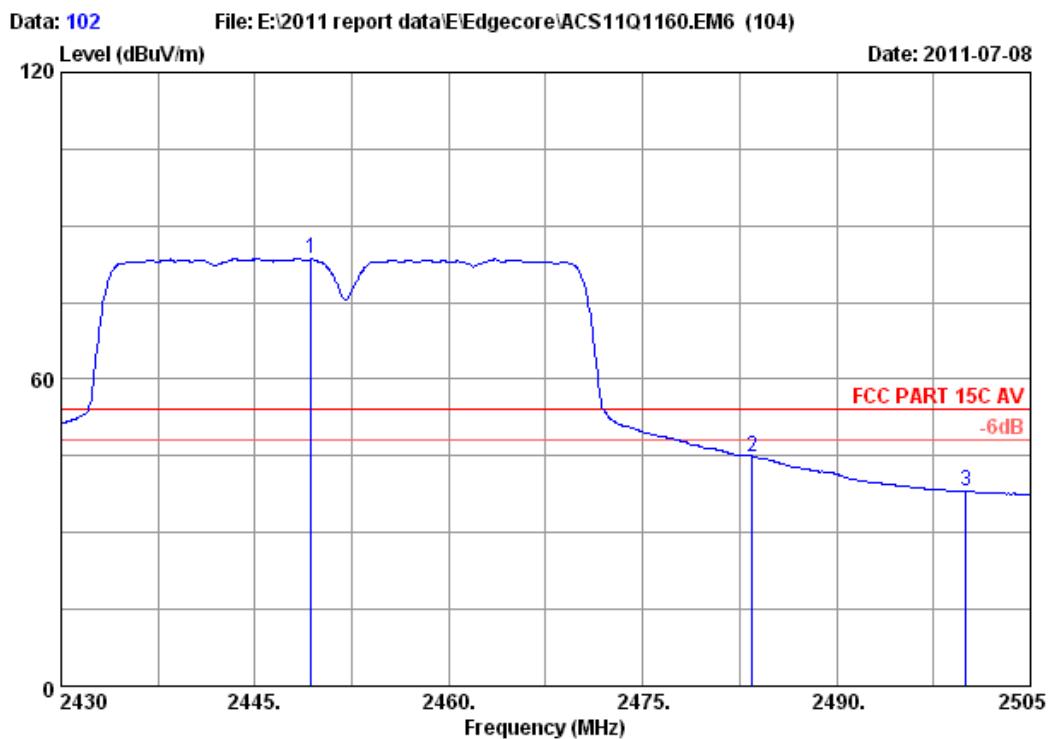
	Ant.	Cable	Amp.	Emission			
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)
1	2466.375	29.48	7.54	36.60	98.68	99.10	74.00 -25.10 Peak
2	2483.500	29.49	7.58	36.60	62.47	62.94	74.00 11.06 Peak
3	2489.400	29.50	7.58	36.60	59.18	59.66	74.00 14.34 Peak
4	2500.000	29.50	7.62	36.60	49.05	49.57	74.00 24.43 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.

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 102
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT40 CH7 2452MHz Tx
M/N : SMCWR14S-N5

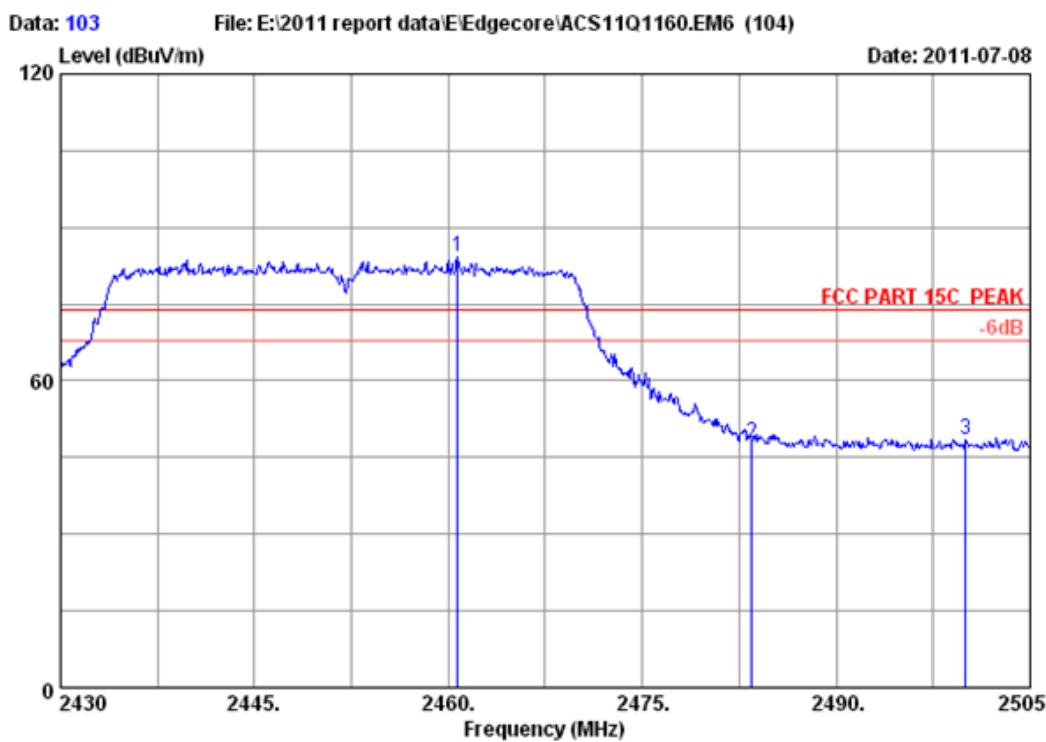
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2449.350	29.47	7.50	36.61	83.12	83.48	54.00	-29.48 Average
2	2483.500	29.49	7.58	36.60	44.46	44.93	54.00	9.07 Average
3	2500.000	29.50	7.62	36.60	37.50	38.02	54.00	15.98 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.

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 103
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT40 CH7 2452MHz Tx
M/N : SMCWR14S-N5

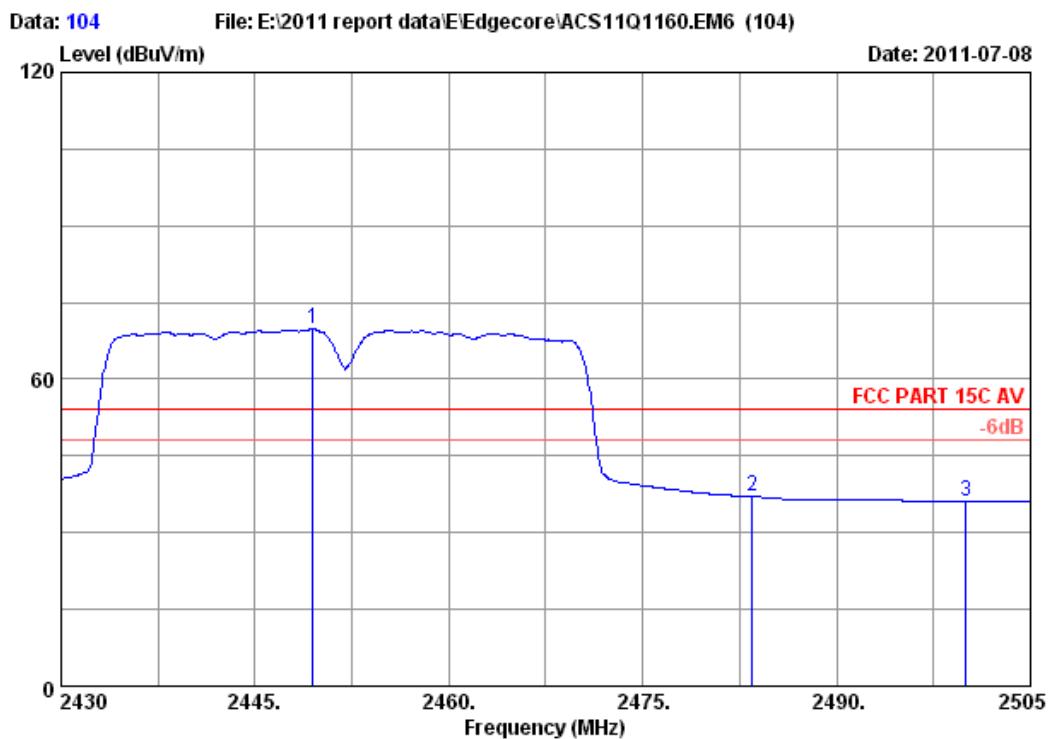
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2460.750	29.48	7.54	36.61	83.75	84.16	74.00	-10.16	Peak
2 2483.500	29.49	7.58	36.60	47.26	47.73	74.00	26.27	Peak
3 2500.000	29.50	7.62	36.60	47.89	48.41	74.00	25.59	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.

FCC ID:YZKSMCWR14SN5

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Site no. : 3m Chamber Data no. : 104
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : 150 Mbps 4-port Wireless Broadband Router
Power : DC 9V From Adapter input AC 120V/60Hz
Test mode : IEEE802.11nHT40 CH7 2452MHz Tx
M/N : SMCWR14S-N5

	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2449.500	29.47	7.50	36.61	69.44	69.80	54.00	-15.80 Average
2	2483.500	29.49	7.58	36.60	36.56	37.03	54.00	16.97 Average
3	2500.000	29.50	7.62	36.60	35.70	36.22	54.00	17.78 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.

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.08,11	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08,11	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08,11	1 Year

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 300 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

EUT: 150 Mbps 4-port Wireless Broadband Router		
M/N: SMCWBR14S-N5		
Test date:2011-07-07	Pressure: 100.6 kpa	Humidity: 60 %
Tested by:Sunny-lu	Test site: RF Site	Temperature : 25 °C

Cable loss: 0.6 dB		Attenuator loss: 20 dB	Antenna Gain: 5 dBi
Test Mode	CH	6dB bandwidth (MHz)	Limit (KHz)
11b	CH1	12.134	>500
	CH6	12.113	>500
	CH11	12.607	>500
11g	CH1	16.605	>500
	CH6	16.550	>500
	CH11	16.601	>500
11n HT20	CH1	17.780	>500
	CH6	17.751	>500
	CH11	17.752	>500
11n HT40	CH1	36.403	>500
	CH4	36.125	>500
	CH7	36.184	>500
Conclusion : PASS			

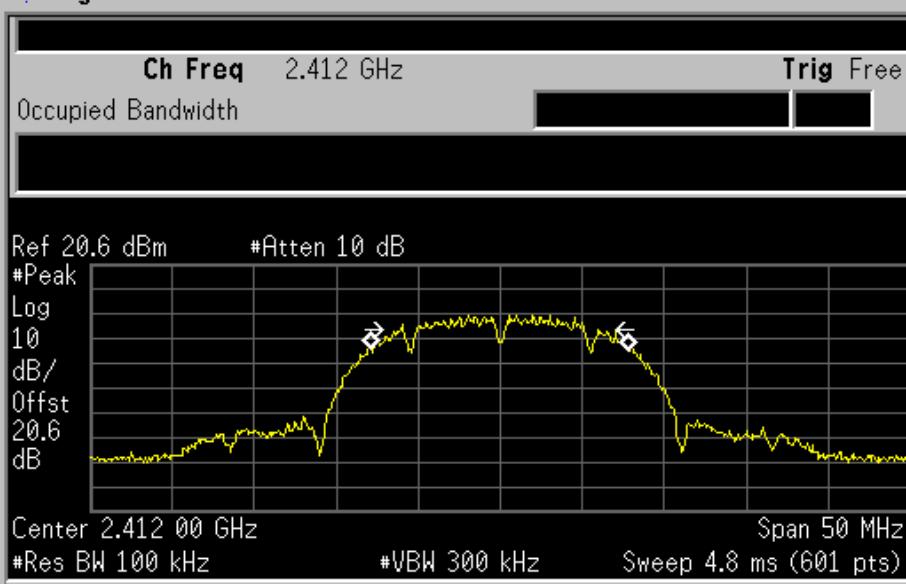
FCC ID:YZKSMCWBR14SN5

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Test Mode: IEEE 802.11b TX

Test CH1: 2412MHz

Agilent

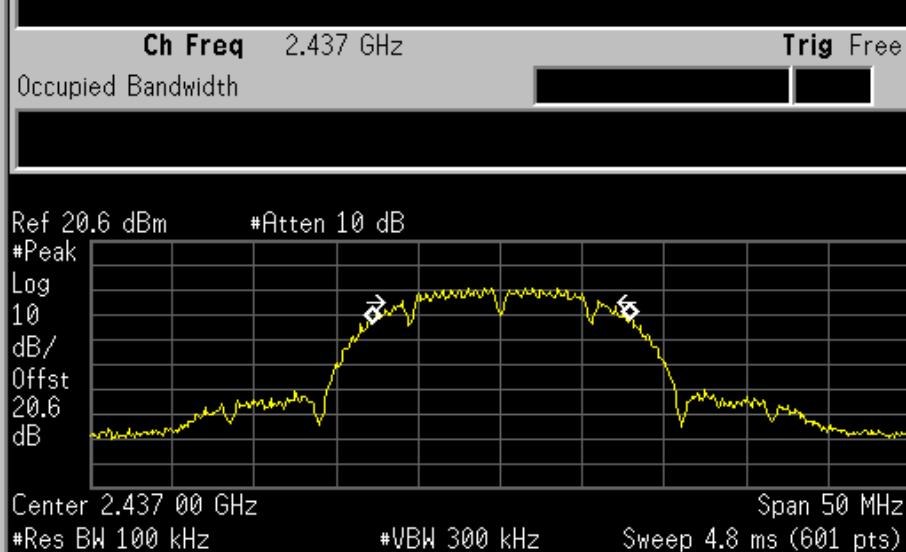


- L Trace
- 1 Trace 2 3
- Clear Write
- Max Hold
- Min Hold
- View
- Blank
- More 1 of 2

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Test CH6: 2437MHz

Agilent



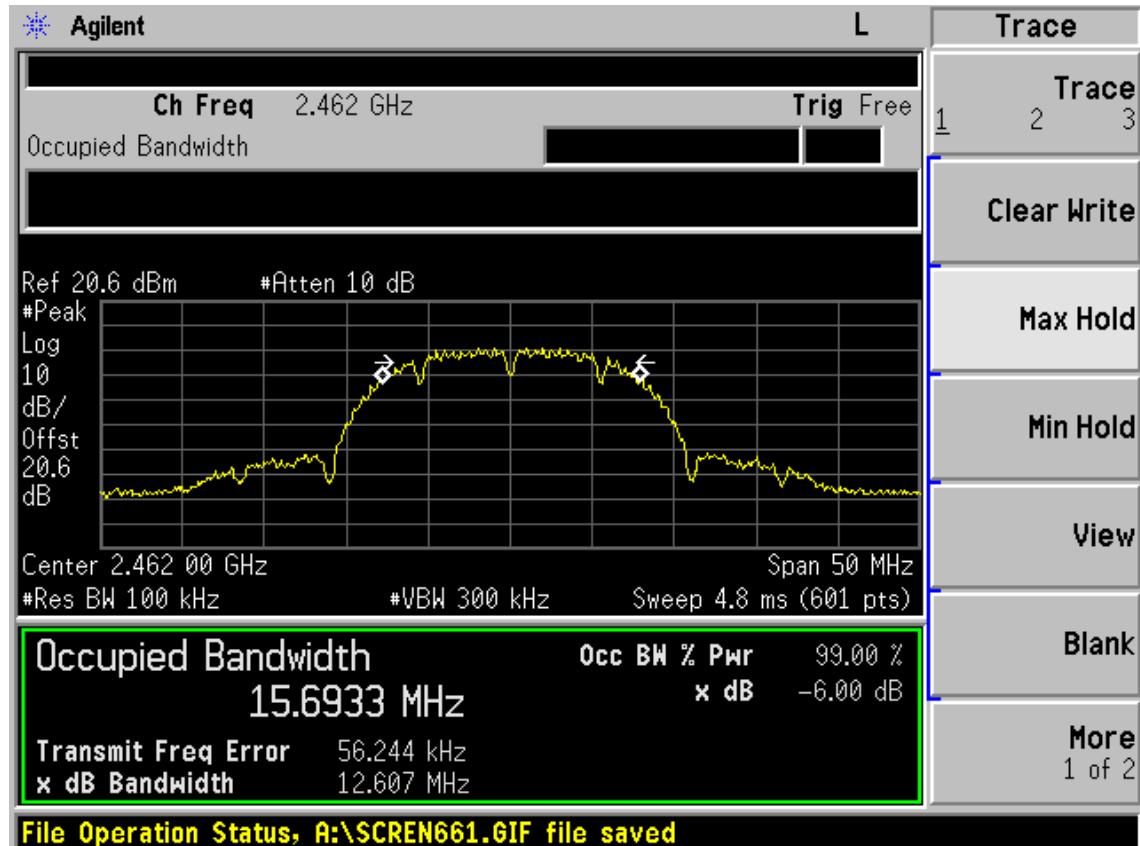
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- Clear Write
- Max Hold
- Min Hold
- View
- Blank
- More 1 of 2

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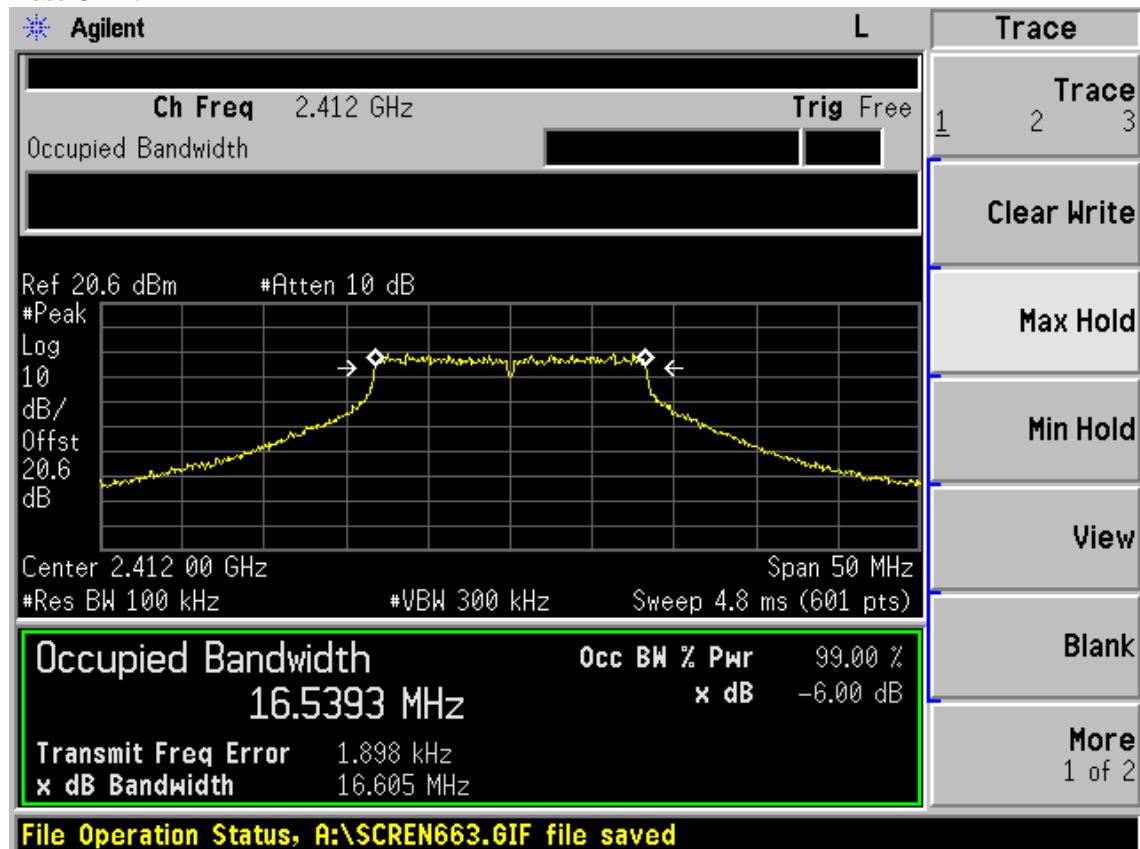
page 7-3

Test CH11: 2462MHz



Test Mode: IEEE 802.11g TX

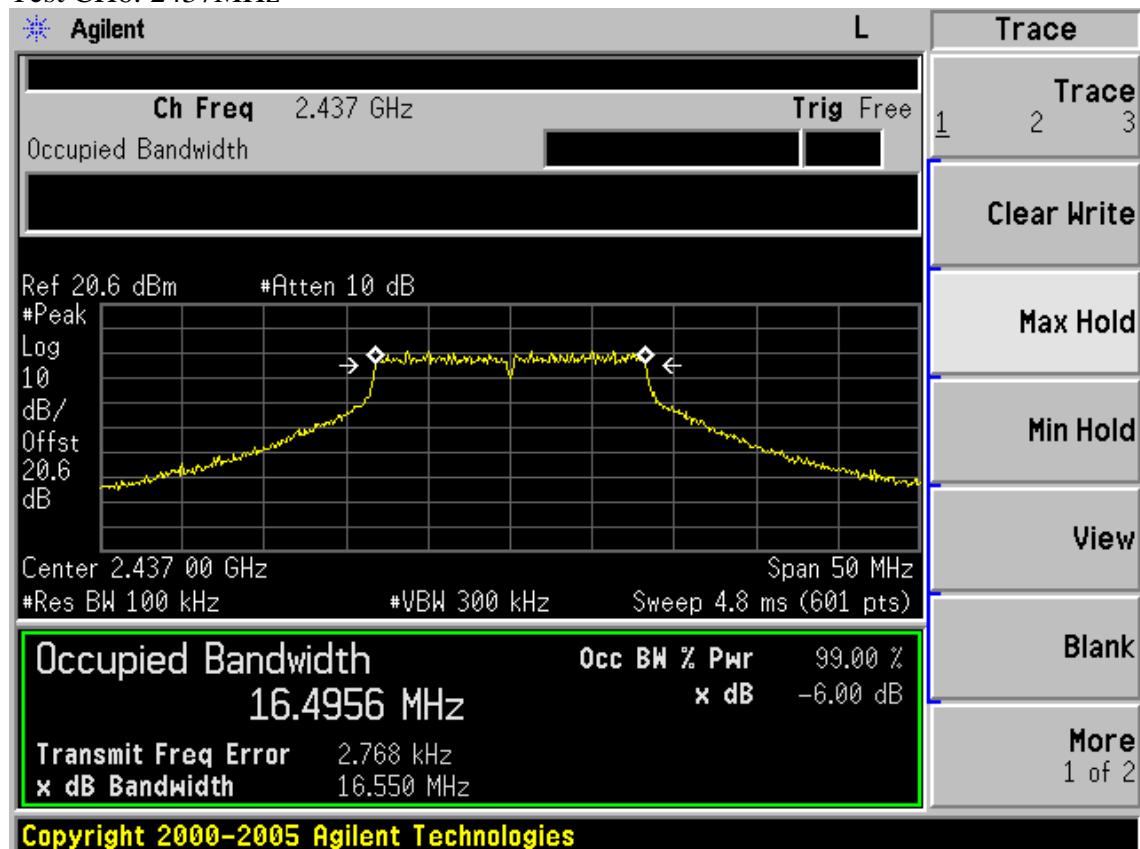
Test CH1: 2412MHz



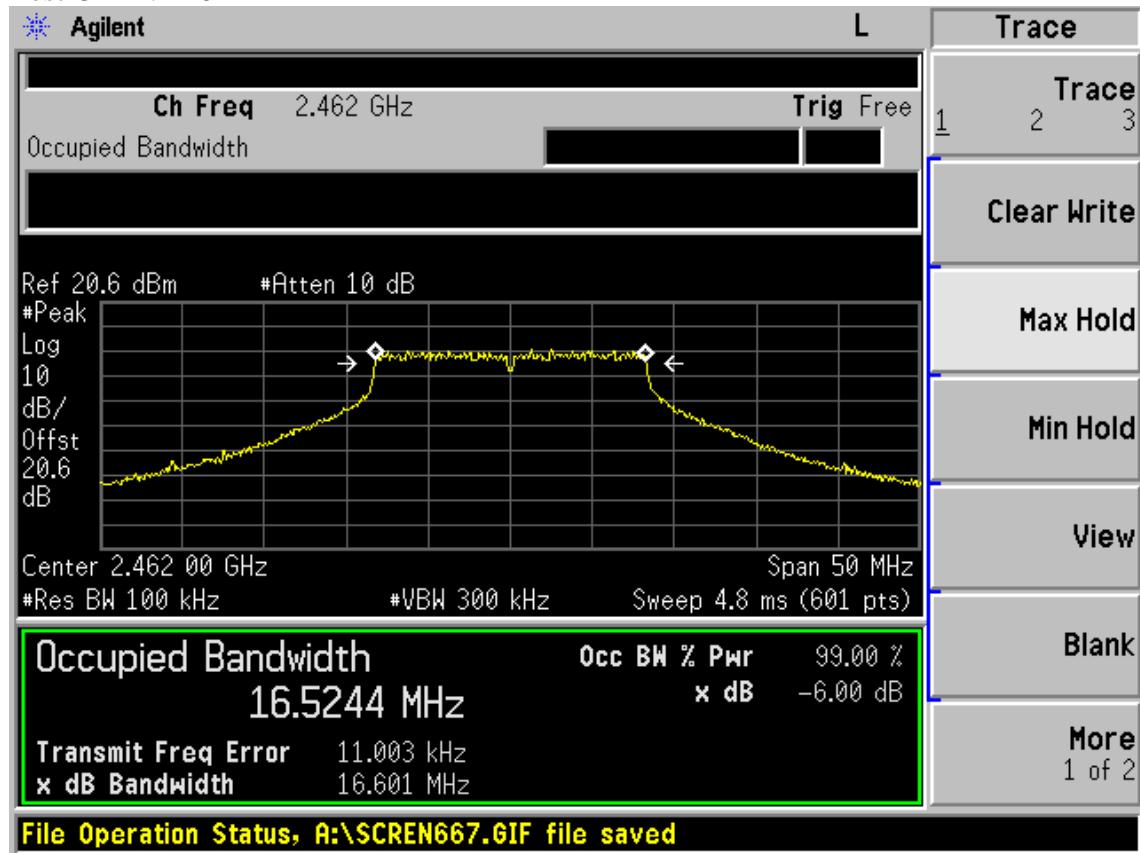
FCC ID:YZKSMCWBR14SN5

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Test CH6: 2437MHz



Test CH11: 2462MHz

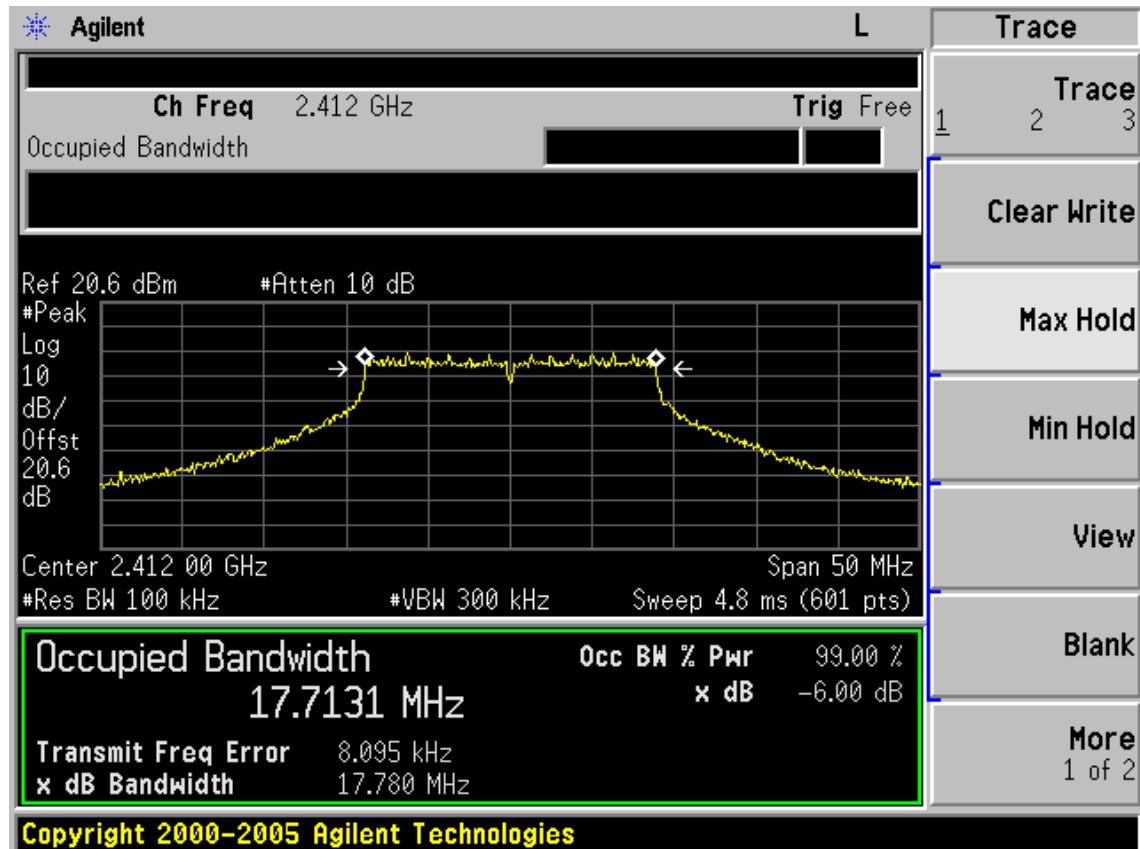


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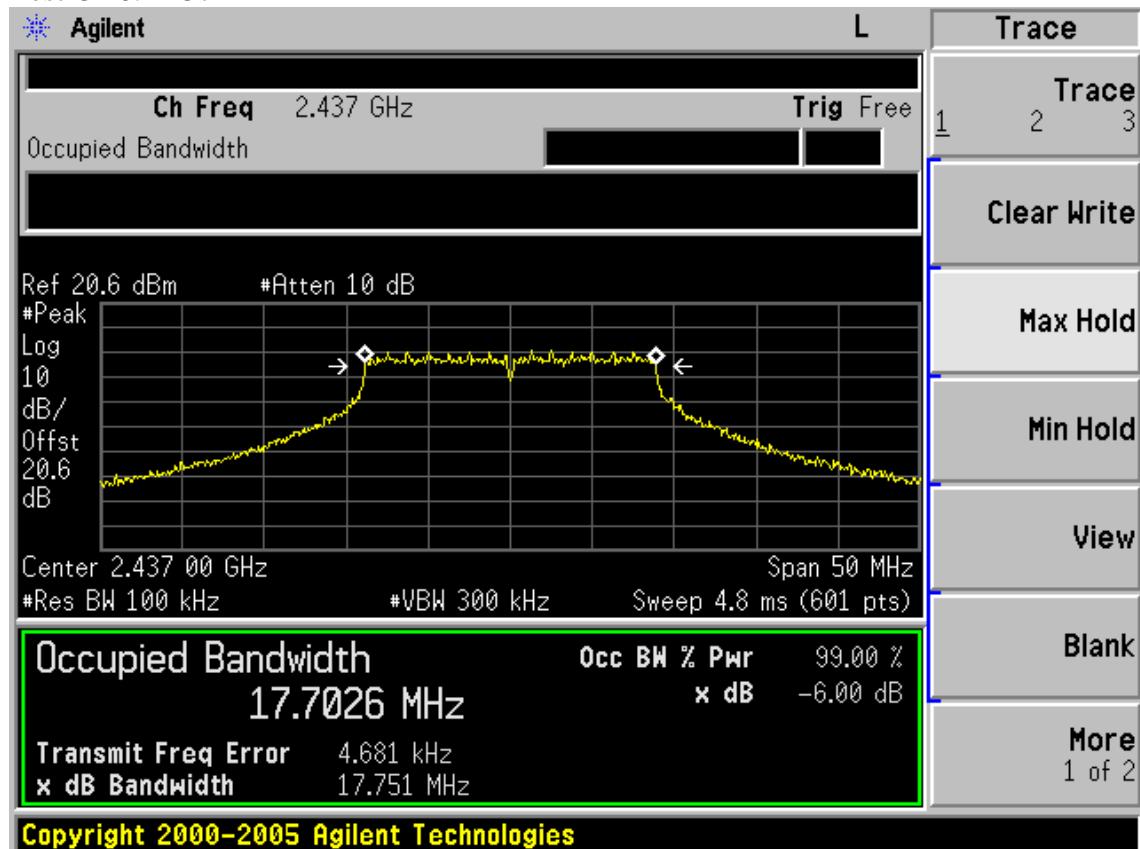
page 7-5

Test Mode: IEEE 802.11n HT20TX

Test CH1: 2412MHz



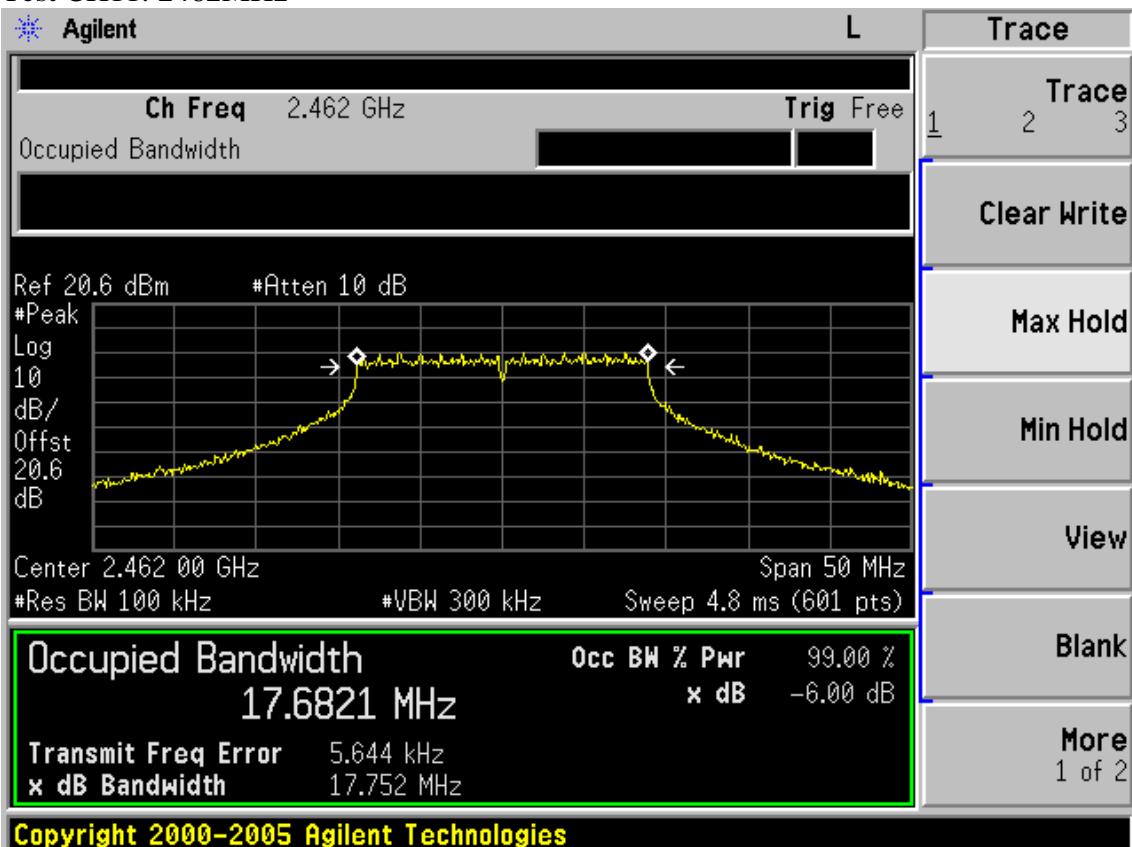
Test CH6: 2437MHz



FCC ID:YZKSMCWBR14SN5

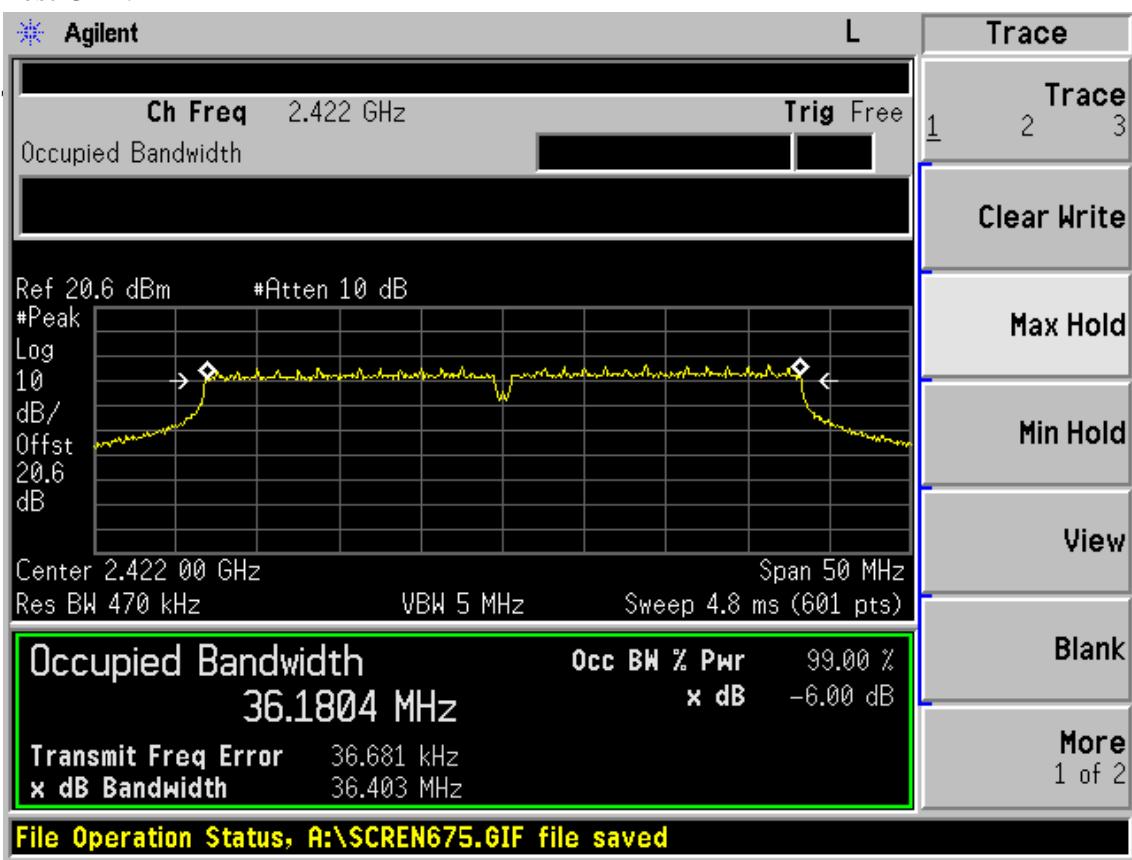
page 7-6

Test CH11: 2462MHz



Test Mode: IEEE 802.11n HT40TX

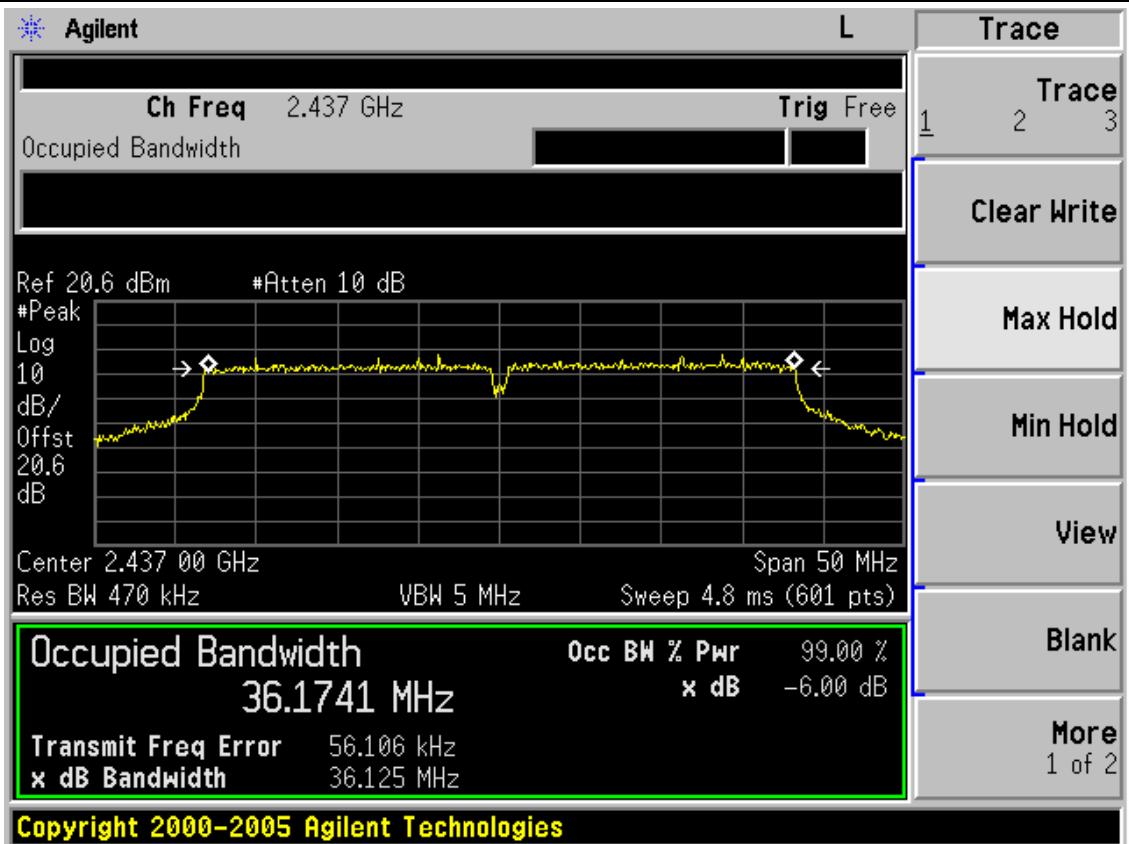
Test CH1: 2422MHz



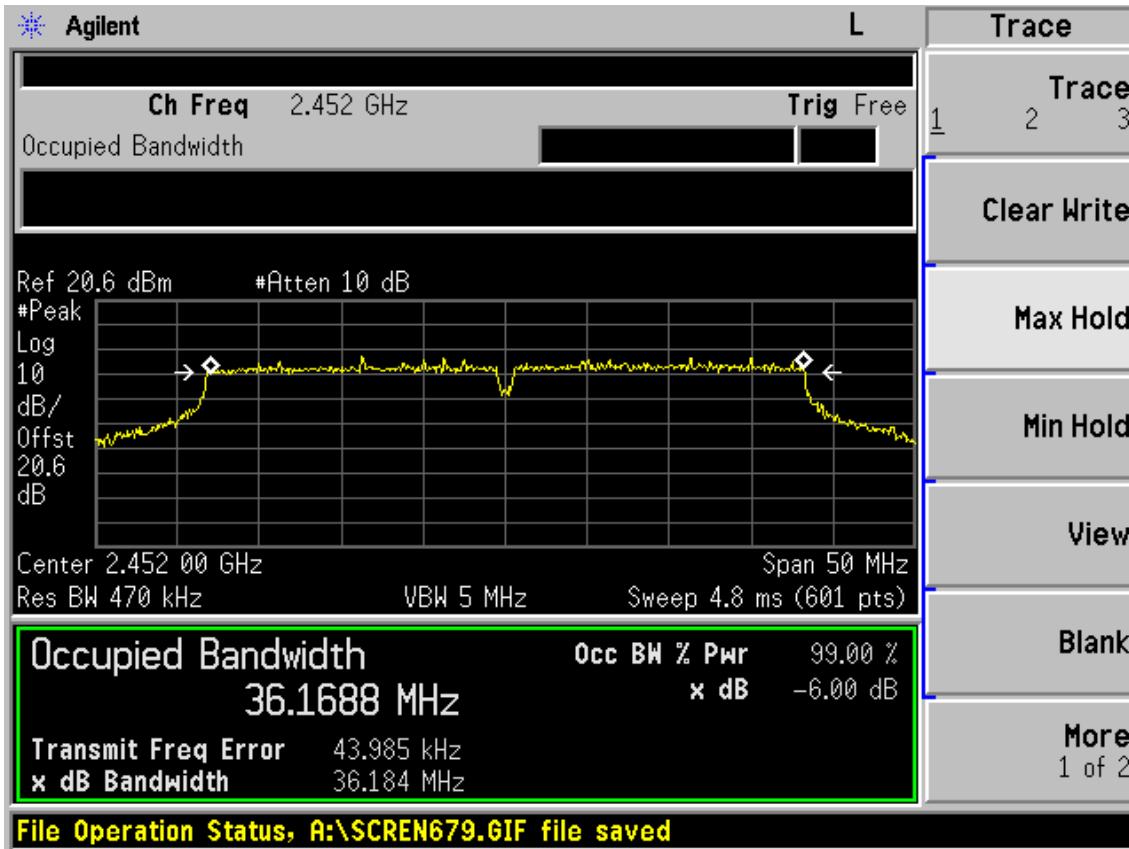
Test CH4: 2437MHz

FCC ID:YZKSMCWBR14SN5

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Test CH7: 2452MHz



8. OUTPUT POWER TEST

8.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Power meter	Anritsu	ML2487A	6K00002472	May.08,11	1 Year
2.	Power sensor	Anritsu	MA2491A	0033005	May.08,11	1 Year
3	Attenuator	Agilent	8491B	MY39262165	May.08,11	1 Year
4	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08, 11	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08,11	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

- 1, Connected the EUT's antenna port to measure device by 20dB attenuator.
- 2, For IEEE 802.11b/g and IEEE802.11n HT20 mode, use a PK power meter which's bandwidth is 20MHz and above 6dB bandwidth of signal to measure out each test modes' PK output power.
- 3, For IEEE802.11n HT40 mode, because the signal's bandwidth is about 40MHz and above 20MHz bandwidth of power sensor ML2491A. So Bandwidth correction method according to ANSI C63.10 clause 6.10.2.1 part (c) was used:
 - 1) Set the RBW=3MHz and VBW =8MHz
 - 2) Turn averaging off
 - 3) Set sweep to automatic
 - 4) Set the span just large enough to capture the emission
 - 5) Use a peak detector on max hold
 - 6) Record the measured power
 - 7) Calculate Output power of EUT use the formula:

Peak output power =measured power+ 10log[(6dB bandwidth of emission)/(analyzer RBW)]

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

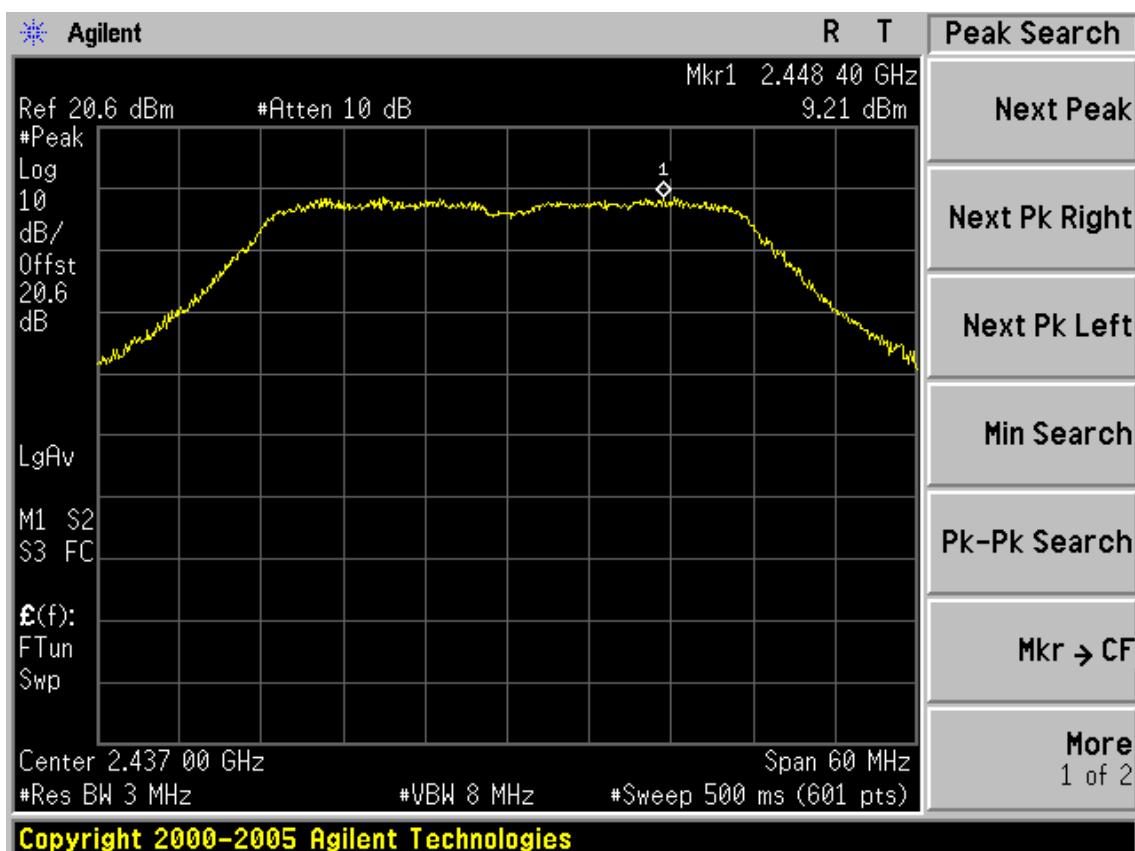
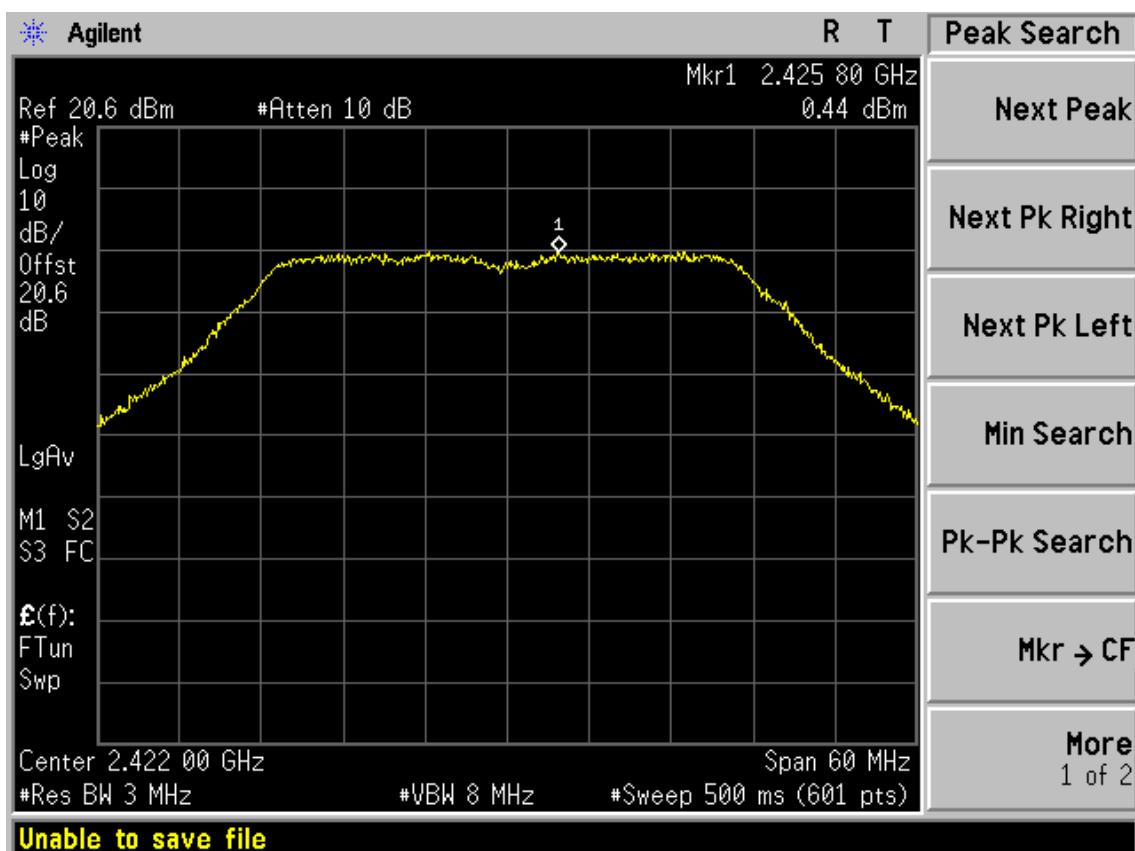
8.4. Test Results

EUT: 150 Mbps 4-port Wireless Broadband Router		
M/N: SMCWBRI4S-N5		
Test date: 2011-07-07	Pressure: 100.2 kpa	Humidity: 58%
Tested by: Sunny-lu	Test site: RF Site	Temperature : 24°C

Cable loss: 0.6 dB		Attenuator loss: 20 dB	Antenna Gain: 5 dBi	
Test Mode	CH	Peak output Power (dBm)	Limit (dBm)	
11b	CH1	19.27	30	
	CH6	22.65	30	
	CH11	20.60	30	
11g	CH1	21.52	30	
	CH6	20.81	30	
	CH11	20.88	30	
11n HT20	CH1	20.34	30	
	CH6	21.97	30	
	CH11	17.72	30	
Mode	CH	Peak power (dBm/3MHz)	Peak output power (dBm)	Limit (dBm)
11n HT40	CH1	0.44	11.24	30
	CH4	9.21	20.01	30
	CH7	3.65	14.45	30
6dB Bandwidth for 11n HT40=36.18MHz				
11n HT40 Mode , BW Correction Factor=10log(36.18 /3)=10.8				
Conclusion : PASS				

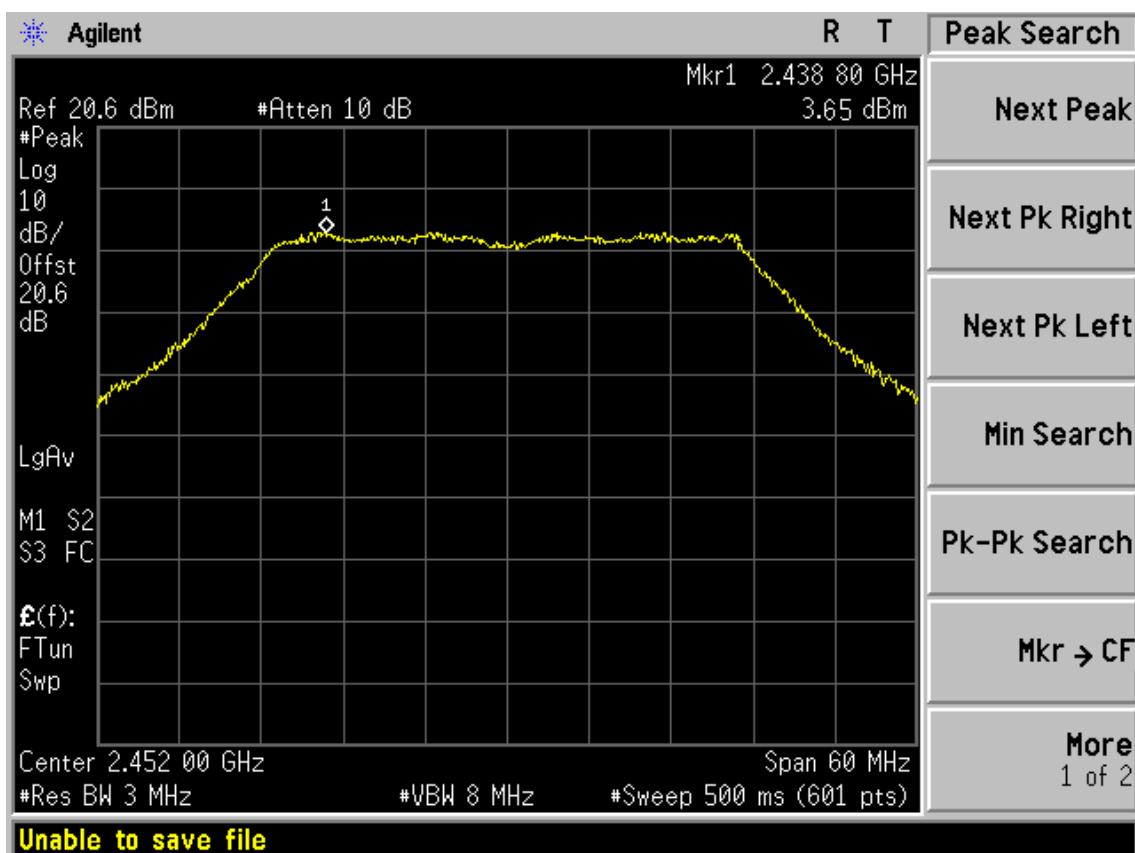
FCC ID:YZKSMCWBR14SN5

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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.08, 11	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08, 11	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08, 11	1 Year

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

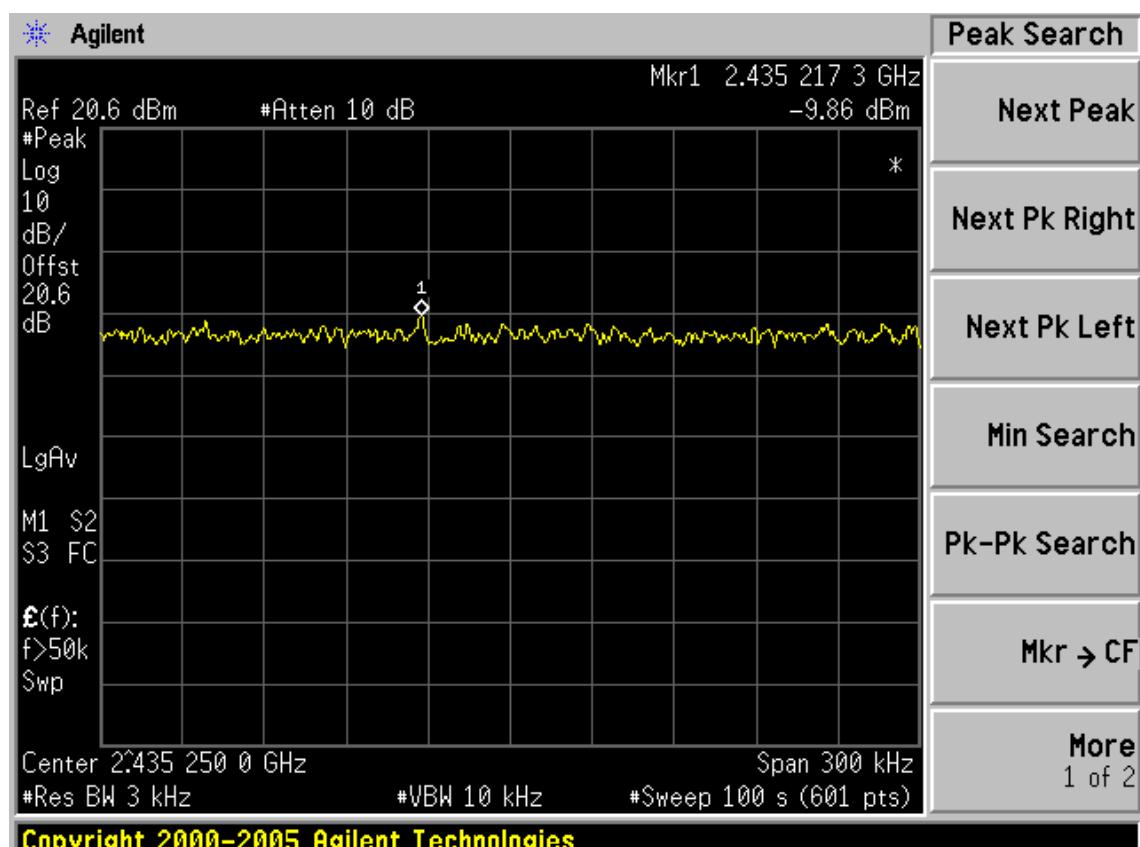
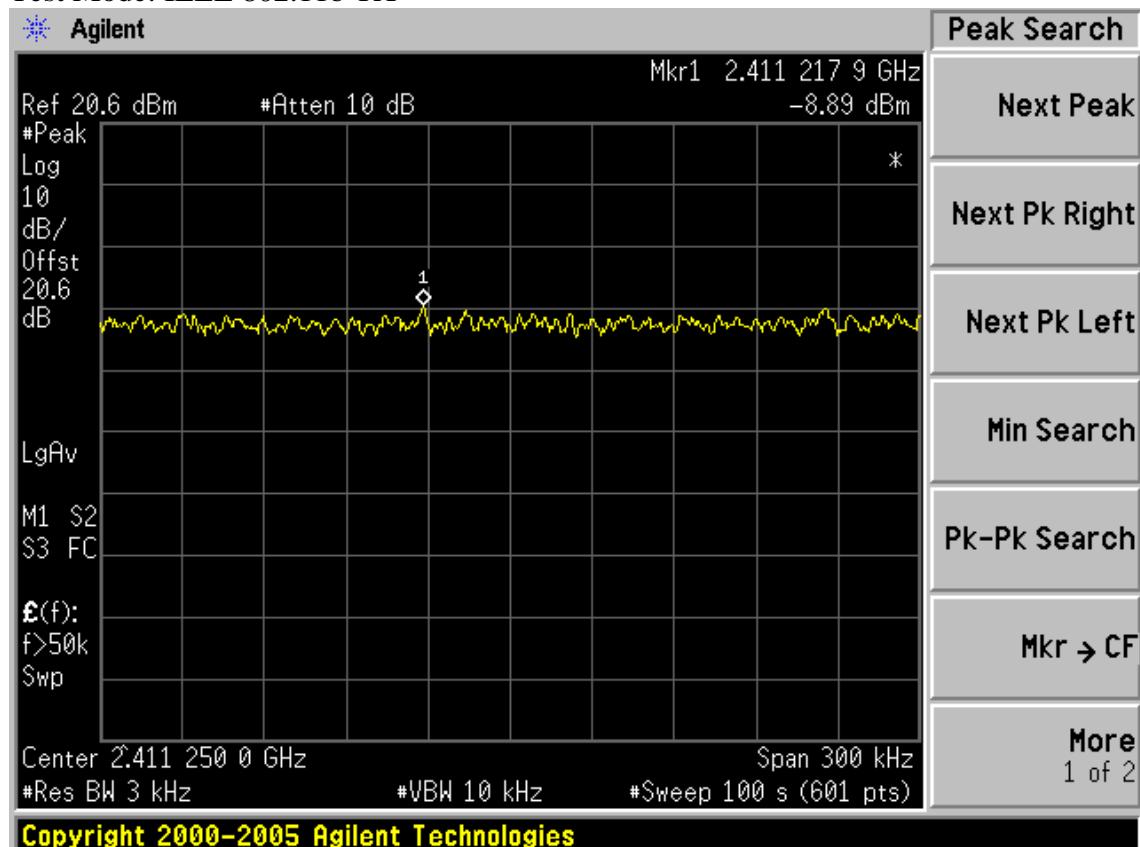
- 1, Connected the EUT's antenna port to spectrum analyzer device by 20dB attenuator.
- 2, Follow the test procedure as described in ANSI C.10: 2009 Clause 6.11.2.3 to measure out each test modes and chain's power density with 3KHz.

9.4. Test Results

EUT: 150 Mbps 4-port Wireless Broadband Router		
M/N: SMCWBR14S-N5		
Test date:2011-07-07	Pressure: 100.6 kpa	Humidity: 60 %
Tested by:Sunny-lu	Test site: RF Site	Temperature : 25 °C

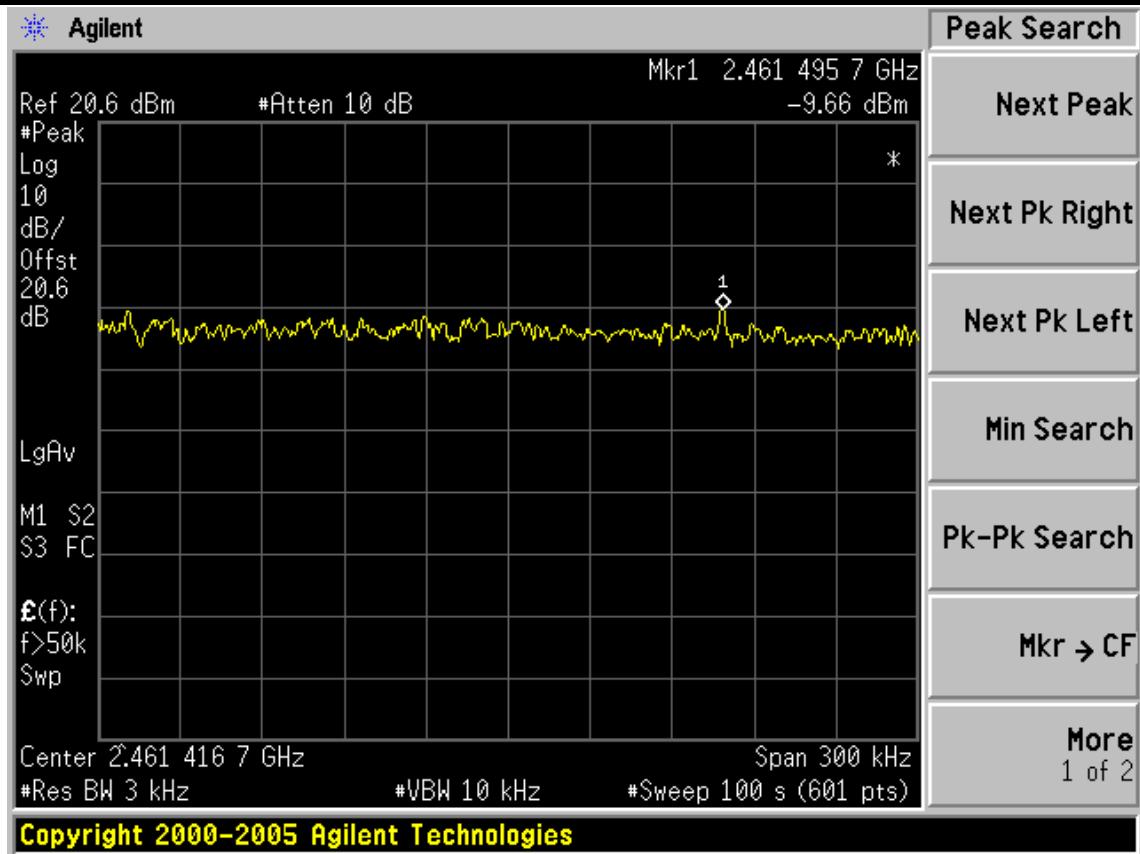
Cable loss: 0.6 dB		Attenuator loss: 20 dB	Antenna Gain: 5dBi
Test Mode	CH	Power density (dBm/3KHz)	Limit (dBm/3KHz)
11b	CH1	-8.89	8
	CH6	-9.86	8
	CH11	-9.66	8
11g	CH1	-20.68	8
	CH6	-11.80	8
	CH11	-15.33	8
11n HT20	CH1	-13.95	8
	CH6	-12.78	8
	CH11	-16.17	8
11n HT40	CH1	-22.16	8
	CH4	-15.32	8
	CH7	-25.31	8
Conclusion : PASS			

Test Mode: IEEE 802.11b TX

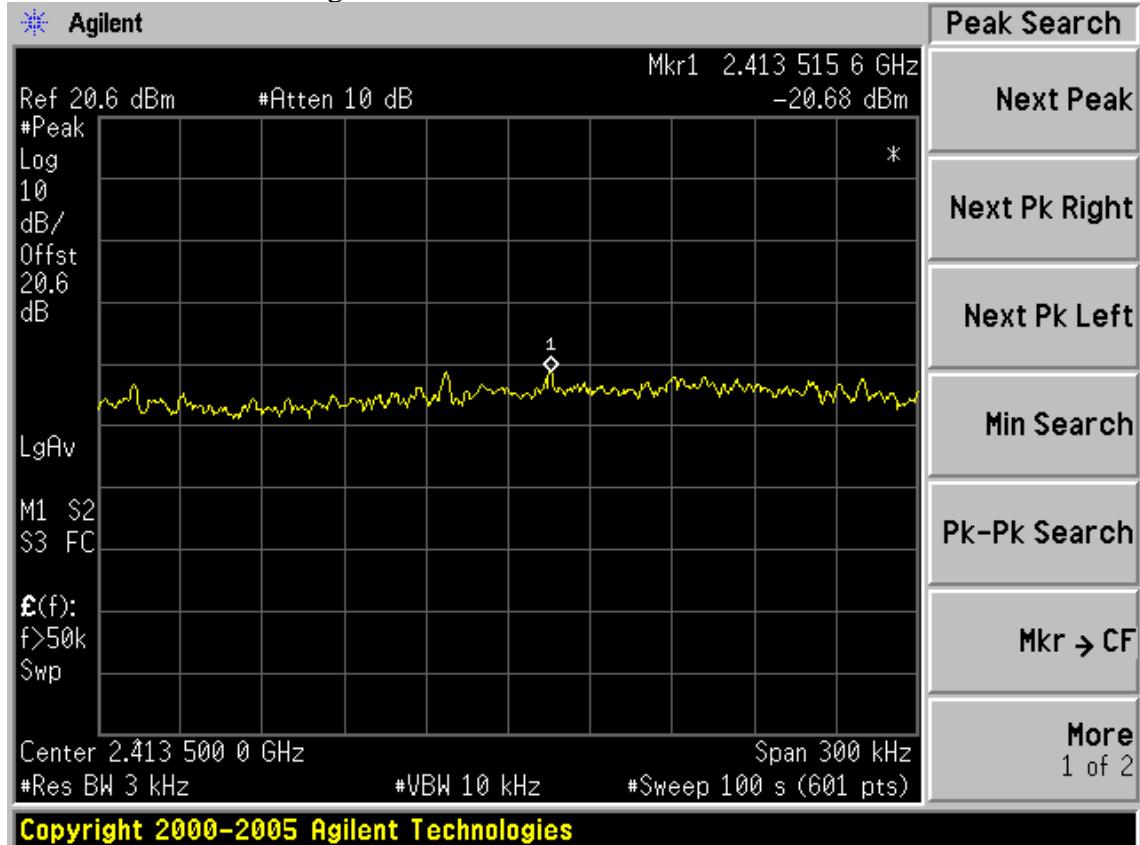


FCC ID:YZKSMCWBR14SN5

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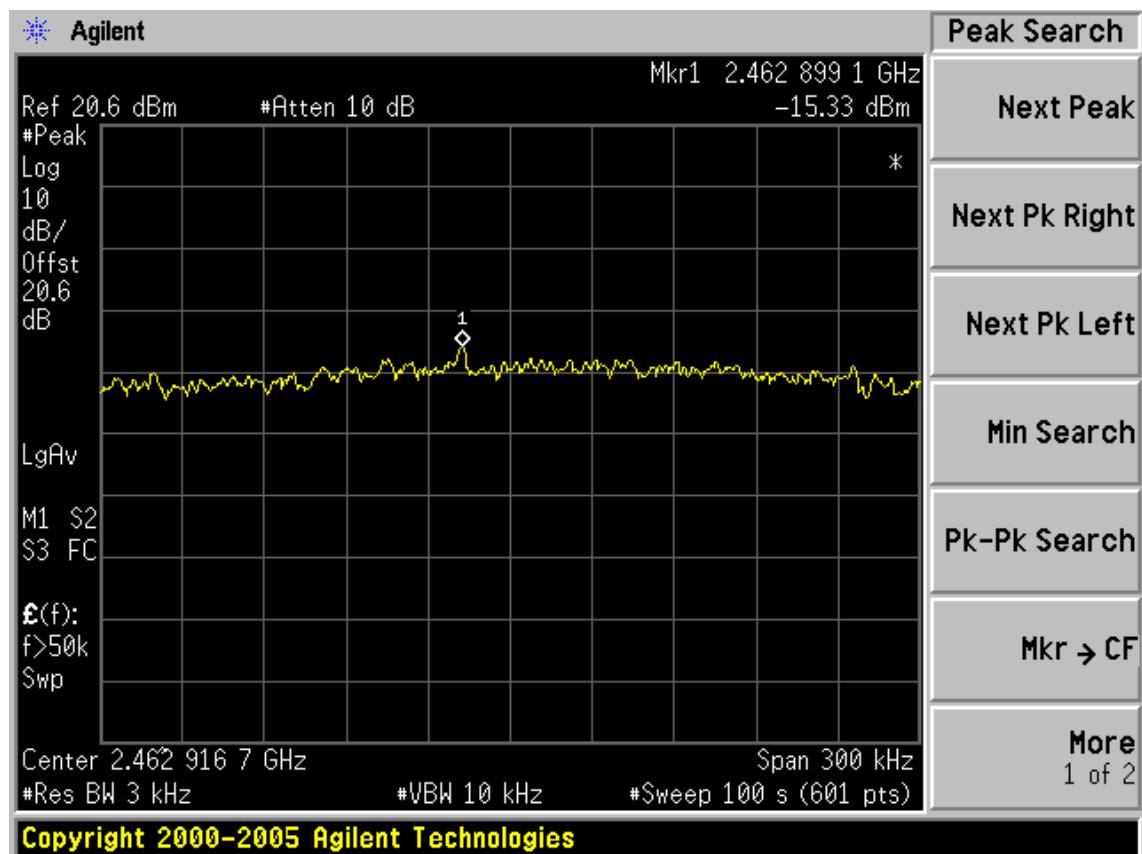
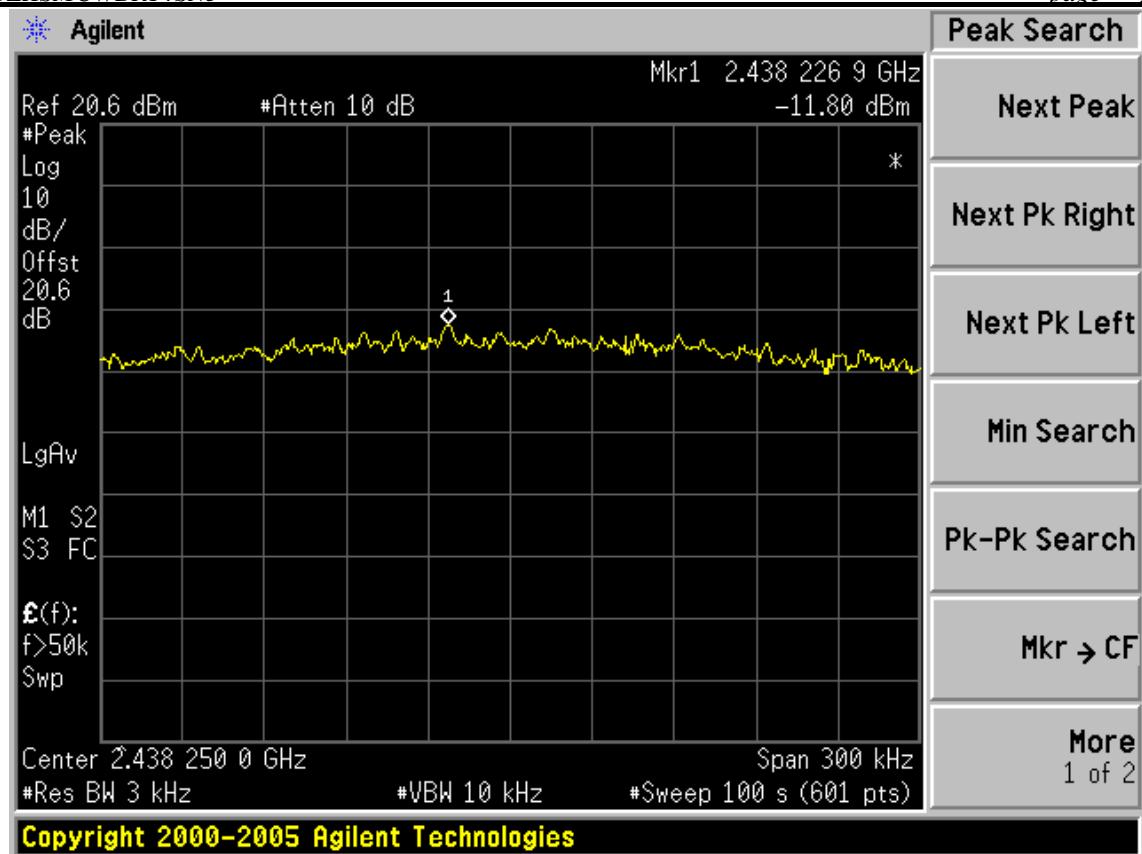


Test Mode: IEEE 802.11g TX



FCC ID:YZKSMCWBR14SN5

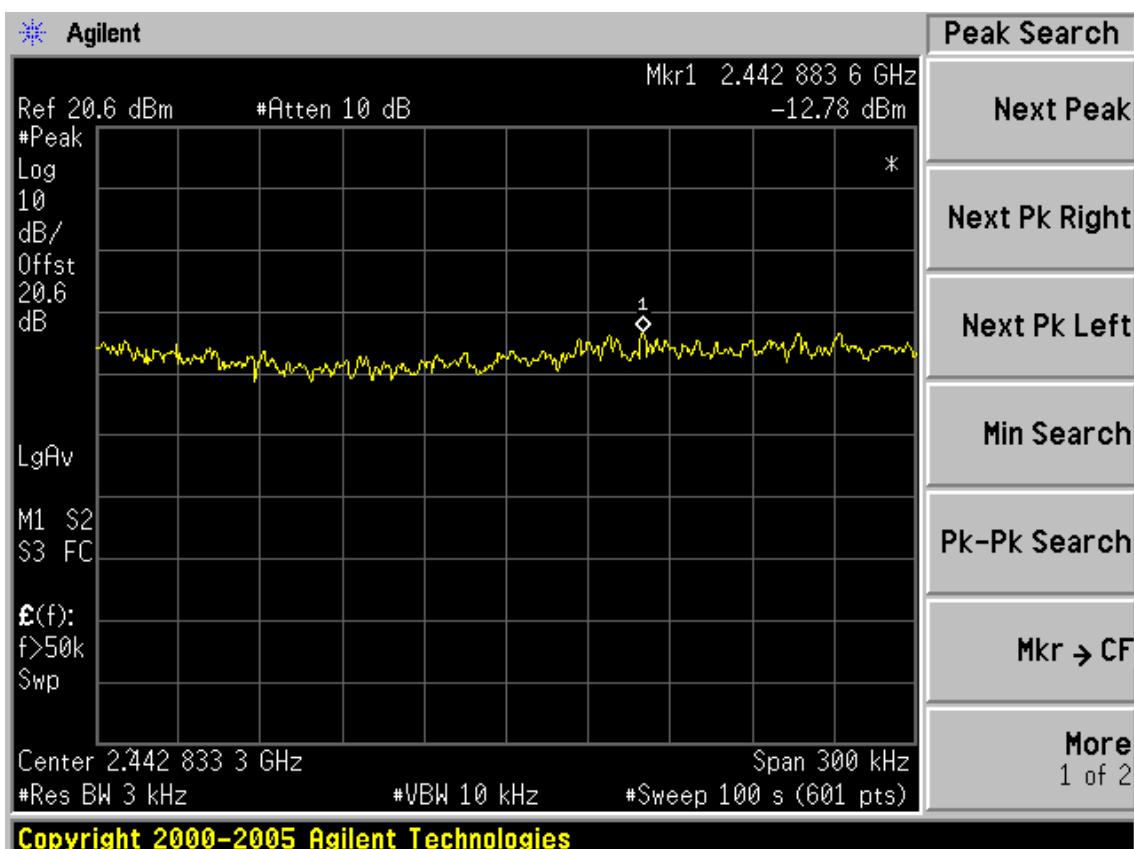
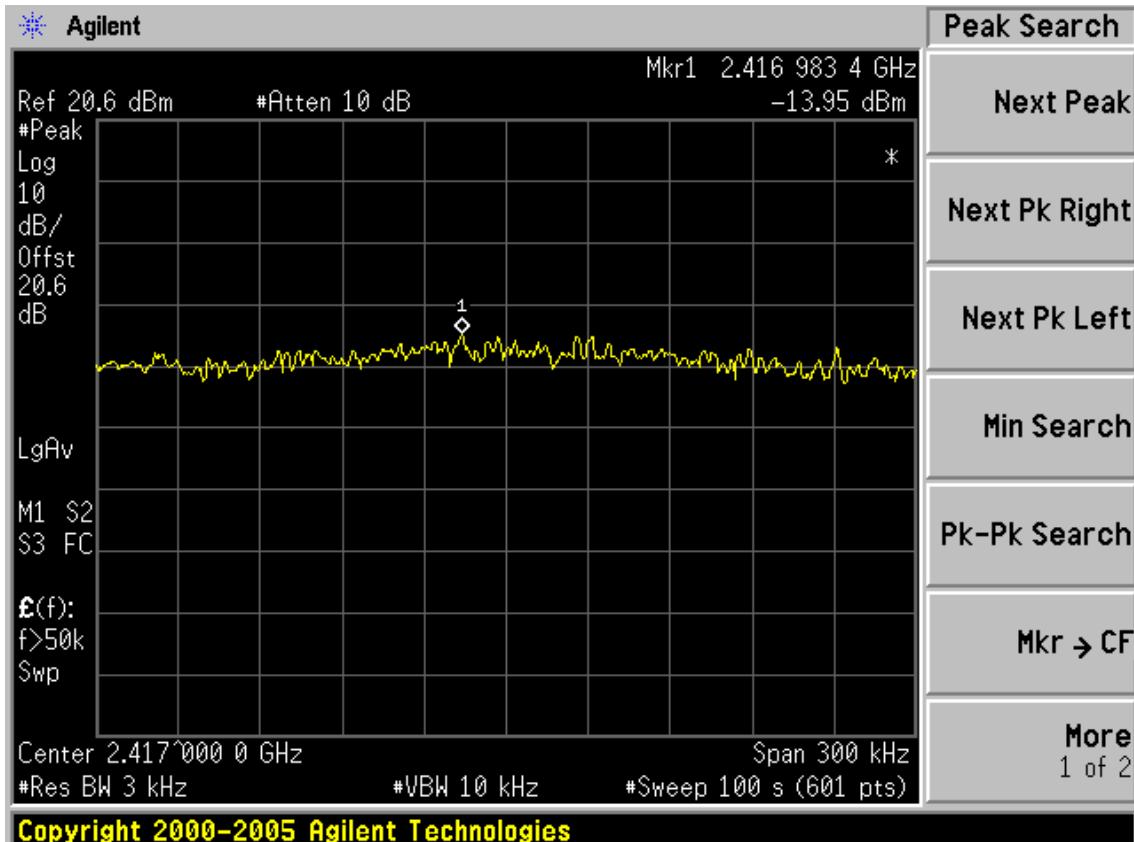
page 9-5



FCC ID:YZKSMCWBR14SN5

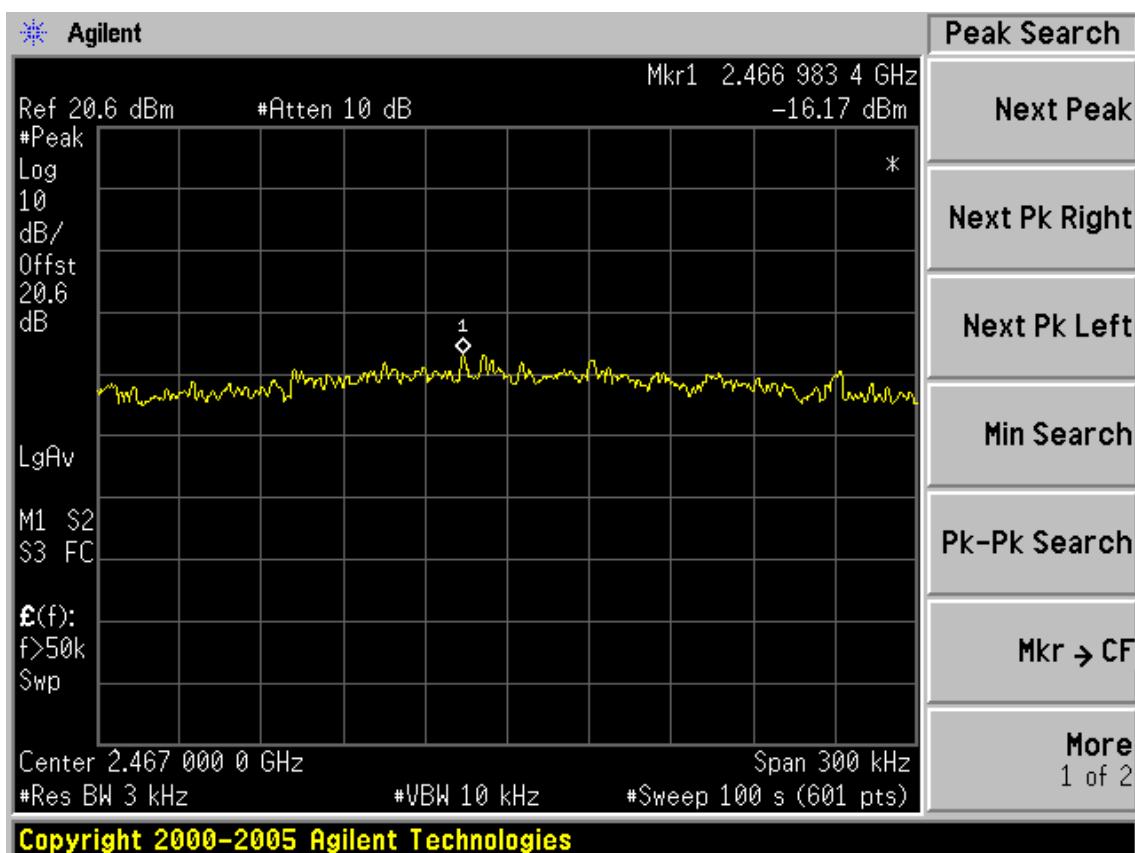
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Test Mode: IEEE 802.11n HT20 TX

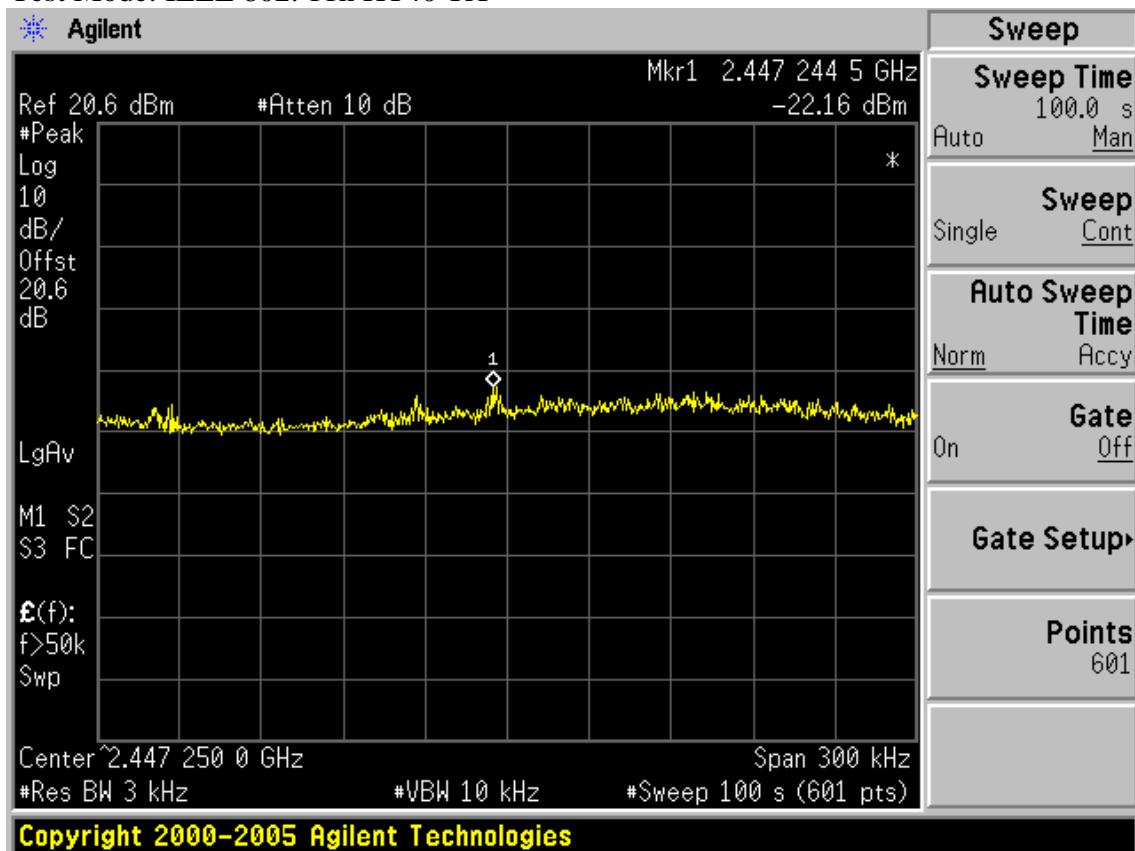


FCC ID:YZKSMCWBR14SN5

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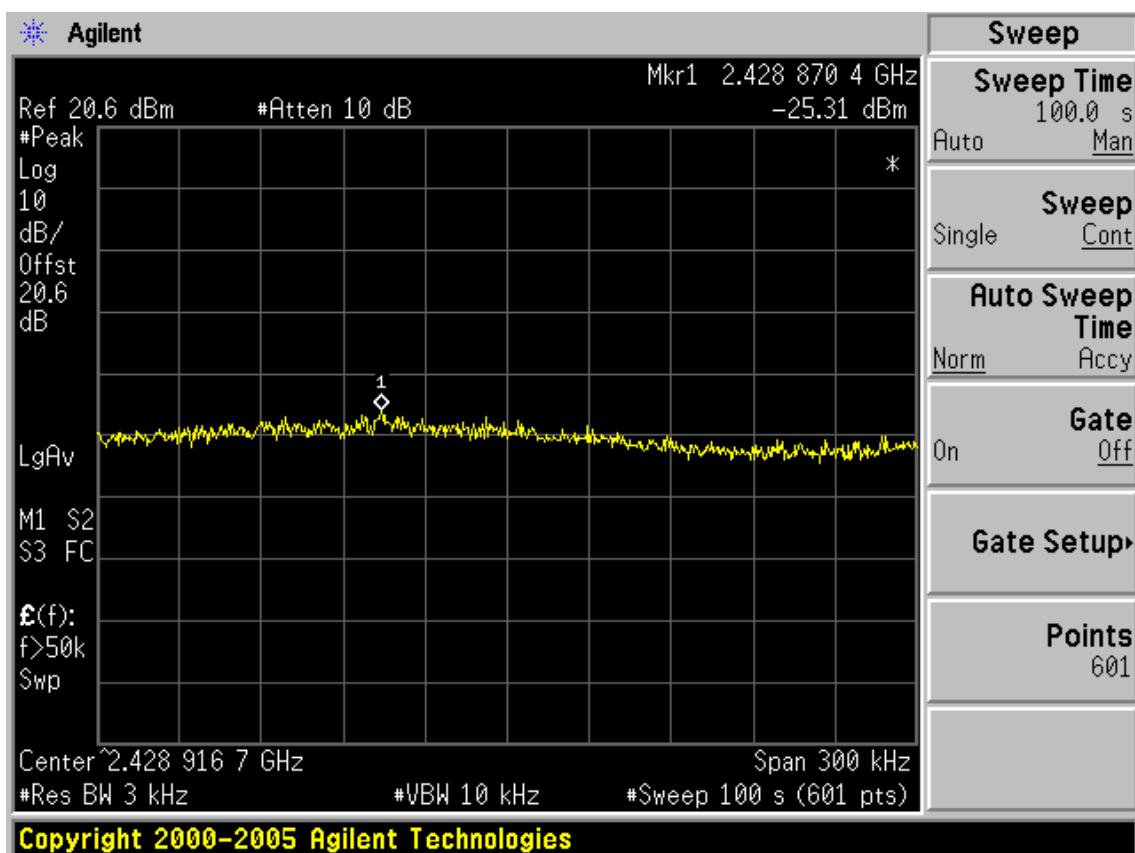
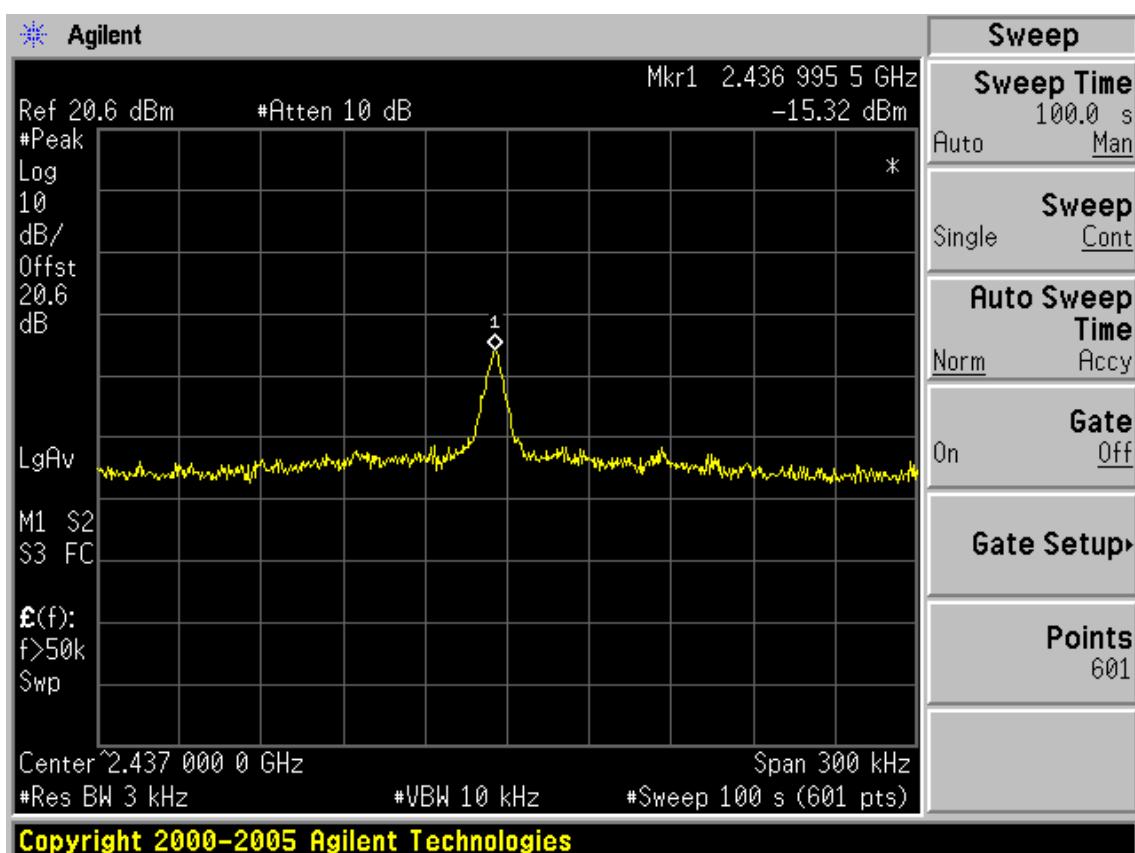


Test Mode: IEEE 802.11n HT40 TX



FCC ID:YZKSMCWBR14SN5

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10. 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

The antennas used for this product are one integrated PCB antenna and one dipole antenna with SMA-B connector that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 5dBi.

11.MPE ESTIMATION

11.1.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	1	30
2437	1	30
2462	1	30

Note: F= Frequency in MHz

11.2.2, Estimation Result

Mode	CH	Frequency (MHz)	PK Output power (dBm)	Output power (mW)	antenna Gain (dBi)	antenna Gain(linear)	MPE
11b	1	2412	19.27	84.53	5	3.16	0.0532
	6	2437	22.65	184.08	5	3.16	0.1159
	11	2462	20.60	114.82	5	3.16	0.0723
11g	1	2412	21.52	141.91	5	3.16	0.0893
	6	2437	20.81	120.50	5	3.16	0.0758
	11	2462	20.88	122.46	5	3.16	0.0771
11n HT20	1	2412	20.34	108.14	5	3.16	0.0681
	6	2437	21.97	157.40	5	3.16	0.0991
	11	2462	17.72	59.16	5	3.16	0.0372
11n HT40	1	2422	11.24	13.30	5	3.16	0.0084
	4	2437	20.01	100.23	5	3.16	0.0631
	7	2452	14.45	27.86	5	3.16	0.0175

Note: The estimation distance is 20cm



12. DEVIATION TO TEST SPECIFICATIONS

[NONE]