

FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

D-LINK Corporation

WIRELESS N 150 USB ADAPTER

Model No.: DWA-125; DWA-123; GO-USB-N150

FCC ID: KA2WA125D1

Prepared for : D-LINK Corporation
17595 Mt. Herrmann Street, Fountain Valley,
California, United States

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Date of Test : Jan.23~25, 2013
Date of Report : Feb.27, 2013

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TEST REPORT CERTIFICATION

Applicant : D-LINK Corporation
 Manufacturer : D-LINK Corporation
 EUT Description : WIRELESS N 150 USB ADAPTER
 FCC ID : KA2WA125D1

(A) MODEL NO. : DWA-125; DWA-123;
 GO-USB-N150
 (B) SERIAL NO. : N/A
 (C) POWER SUPPLY : DC 5V
 (D) TEST VOLTAGE : DC 5V From PC Input AC 120V/60Hz

Tested for comply with:
 FCC Rules and Regulations Part 15 Subpart C: 2011

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 : Jan.23~25, 2013 Report of date: Feb.27, 2013

Prepared by : June Shao Reviewed by : Sunny Lu
 June Shao/Assistant Sunny Lu / Assistant Manager

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

Stamp only for EMC Dept. Report

Approved & Authorized Signer :

Signature: Ken Lu

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	: WIRELESS N 150 USB ADAPTER
Model Number	: DWA-125; DWA-123; GO-USB-N150 Only the Model name is different
FCC ID	: KA2WA125D1
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	: PCB antenna, PK gain 1.5dBi
Applicant	: D-LINK Corporation 17595 Mt. Herrmann Street, Fountain Valley, California, United States
Manufacturer	: D-LINK Corporation No. 289, Xinhua 3rd Road, Neihu, Taipei, Taiwan
Date of Test	: Jan.23~25, 2013
Date of Receipt	: Jan.09, 2013
Sample Type	: Prototype production

2.2. Test Information

A special test software was used to control EUT work in Continuous TX mode(100% duty cycle), and select test channel, wireless mode and data rate.

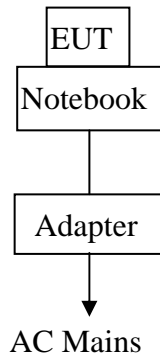
Tested mode, channel, and data rate information			
Mode	data rate (Mbps)(see Note)	Channel	Frequency (MHz)
IEEE 802.11b	1	Low :CH1	2412
	1	Middle: CH6	2437
	1	High: CH11	2462
IEEE 802.11g	6	Low :CH1	2412
	6	Middle: CH6	2437
	6	High: CH11	2462
IEEE 802.11n HT20	6.5	Low :CH1	2412
	6.5	Middle: CH6	2437
	6.5	High: CH11	2462
IEEE 802.11n HT40	13.5	Low :CH1	2422
	13.5	Middle: CH4	2437
	13.5	High: CH7	2452

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	Notebook	Test PC R	DELL	D430	PP09S	<input checked="" type="checkbox"/> FCC DoC
		Power Cord: Unshielded, Detachable, 1.8m Power Adopter: Manufacture: DELL, M/N:LA65NS1-00 DVI Cable: Shielded, Detachable, 4.0m (Power Cord: Unshielded, Detachable, 1.8m)				

2.4. Block Diagram of Test Setup



(EUT: WIRELESS N 150 USB ADAPTER)

2.5. Test Facility

Site Description

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

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

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

EMC Lab. : Certificated by Industry Canada
Registration Number: IC 5183A-1
Valid Date: Jun.13, 2014

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

Accredited by NVLAP, USA
NVLAP Code: 200372-0
Valid Date: Mar.31, 2013

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

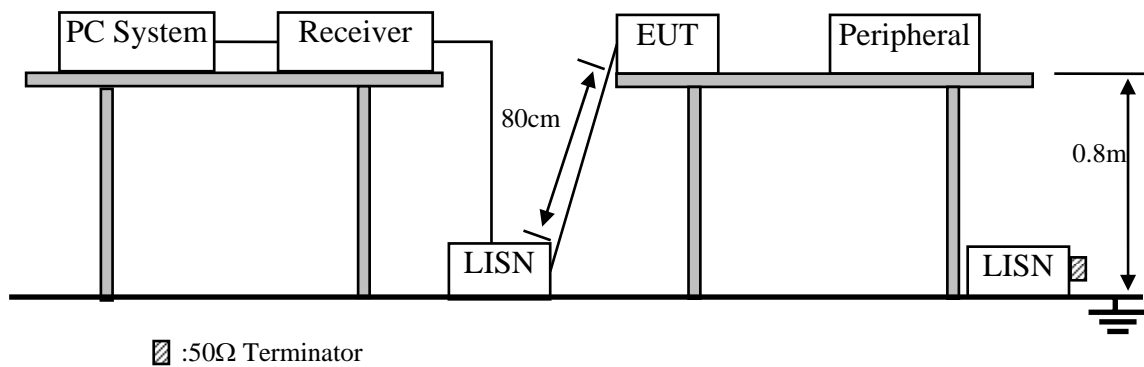
Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	3.6dB(9KHz to 150KHz)
	3.2dB (150KHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	3.6 dB(30~200MHz, Polarize: H)
	3.8 dB(30~200MHz, Polarize: V)
	4.2 dB(200M~1GHz, Polarize: H)
	3.8 dB(200M~1GHz, Polarize: 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	Oct.31, 12	1 Year
2.	L.I.S.N.#1	Rohde & Schwarz	ESH2-Z5	834066/011	Oct.31, 12	1 Year
3.	L.I.S.N.#3	Kyoritsu	KNW-242C	8-1920-1	May.08, 12	1 Year
4.	Terminator	Hubersuhner	50Ω	No. 1	May.08, 12	1 Year
5.	Terminator	Hubersuhner	50Ω	No. 2	May.08, 12	1 Year
6.	RF Cable	Fujikura	3D-2W	No.1	May.08, 12	1Year
7.	Coaxial Switch	Anritsu	MP59B	M50564	May.08, 12	1 Year
8.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100341	May.08, 12	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. WIRELESS N 150 USB ADAPTER (EUT)

Model Number : DWA-125
 Serial Number : N/A

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

3.5. Operating Condition of EUT

- 3.5.1. Setup the EUT and simulator as shown as Section 3.2.
- 3.5.2. Turned on the power of all equipment.
- 3.5.3. PC run test software to control EUT work in Tx mode.

3.6. Test Procedure

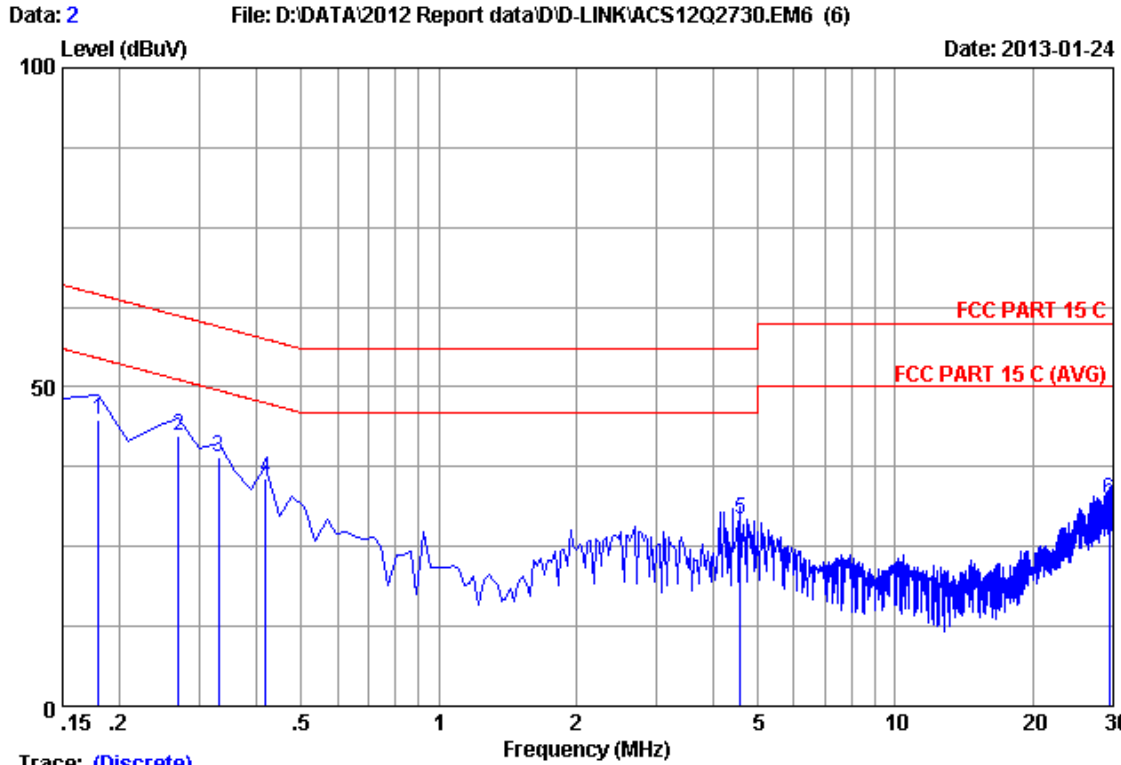
The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The 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 9kHz.

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.)

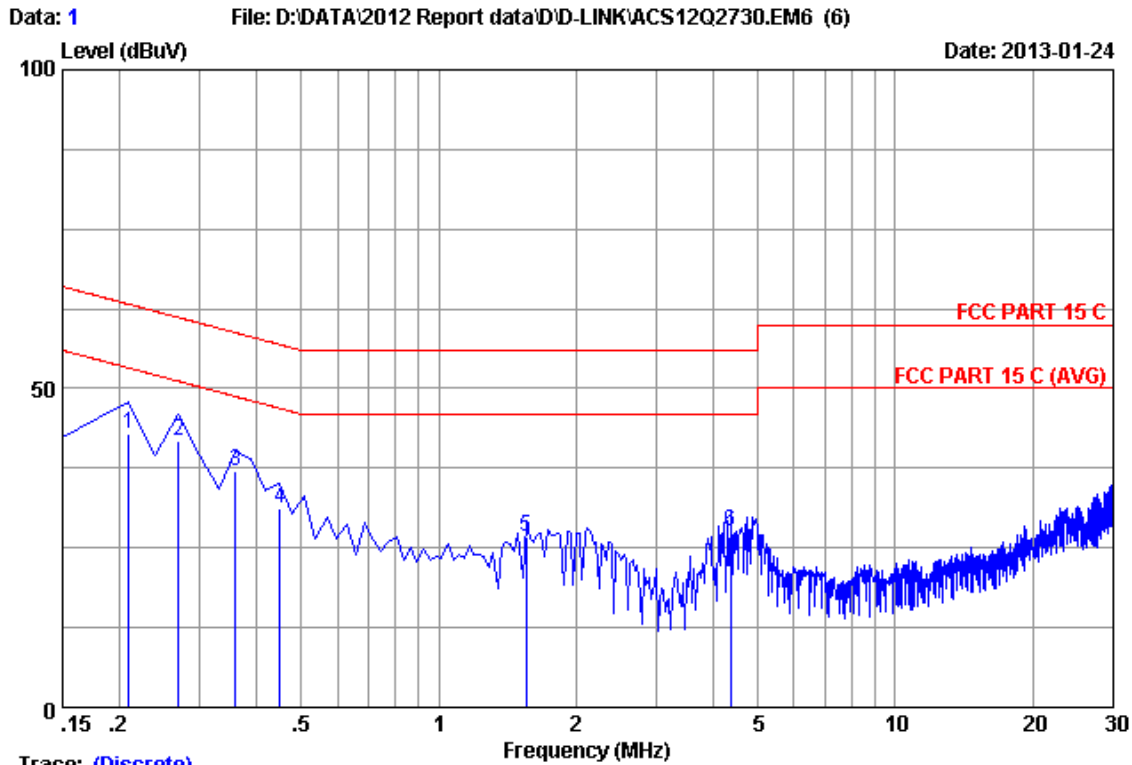


Trace: (Discrete)

Site no :1#conduction Data No :2
 Dis./Ant. **: 2012 ESH2-25 LINE
 Limit :FCC PART 15 C
 Env./Ins. :23.5*C/65% Engineer :Alan_Chen
 EUT :WIRELESS N 150 USB ADAPTER
 Power Rating :DC 5V From PC Input AC 120V/60Hz
 Test Mode :Tx Mode
 :M/N:DWA-125

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.17985	0.19	0.14	44.44	44.77	64.49	19.72	QP
2	0.26940	0.19	0.15	41.92	42.26	61.14	18.88	QP
3	0.32910	0.19	0.15	38.75	39.09	59.47	20.38	QP
4	0.41865	0.19	0.15	35.22	35.56	57.47	21.91	QP
5	4.568	0.30	0.15	28.74	29.19	56.00	26.81	QP
6	29.403	1.54	0.37	30.31	32.22	60.00	27.78	QP

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



Trace: (Discrete)

Site no :1#conduction Data No :1
 Dis./Ant. **: 2012 ESH2-25 NEUTRAL
 Limit :FCC PART 15 C
 Env./Ins. :23.5°C/65% Engineer :Alan_Chen
 EUT :WIRELESS N 150 USB ADAPTER
 Power Rating :DC 5V From PC Input AC 120V/60Hz
 Test Mode :Tx Mode
 :M/N:DWA-125

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.20970	0.21	0.15	42.57	42.93	63.22	20.29	QP
2	0.26940	0.22	0.15	41.46	41.83	61.14	19.31	QP
3	0.35895	0.22	0.15	36.64	37.01	58.75	21.74	QP
4	0.44850	0.23	0.15	30.74	31.12	56.90	25.78	QP
5	1.553	0.27	0.14	26.44	26.85	56.00	29.15	QP
6	4.359	0.33	0.15	27.14	27.62	56.00	28.38	QP

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

4. RADIATED EMISSION TEST

4.1. Test Equipment

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

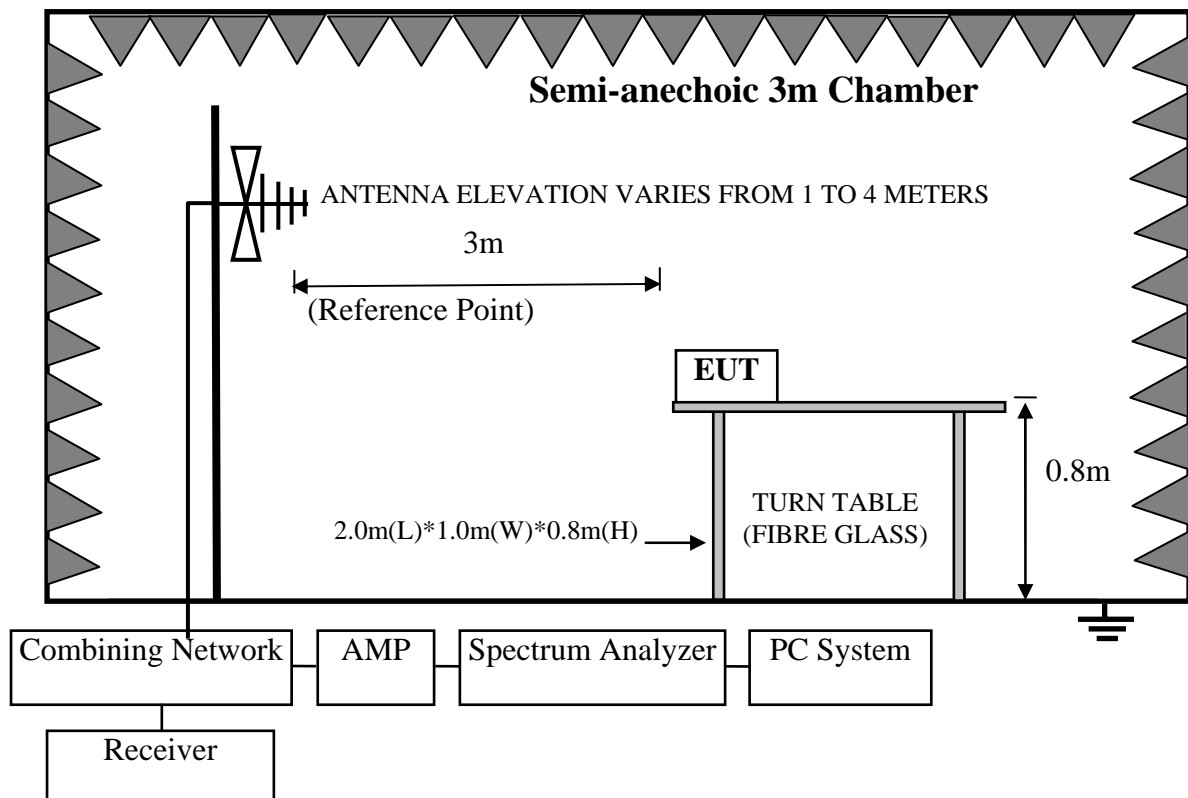
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	3#Chamber	AUDIX	N/A	N/A	Nov.24,12	1 Year
2	EMI Spectrum	Agilent	E4407B	MY41440292	May.08, 12	1 Year
3	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May.08, 12	1 Year
4	Amplifier	HP	8447D	2648A04738	May.08, 12	1 Year
5	Bilog Antenna	Schaffner	CBL6111C	2598	Dec.23, 12	2.0 Year
6	RF Cable	MIYAZAKI	CFD400-NL	3# Chamber No.1	May.08, 12	1 Year
7	Coaxial Switch	Anritsu	MP59B	M74389	May.08, 12	1 Year

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

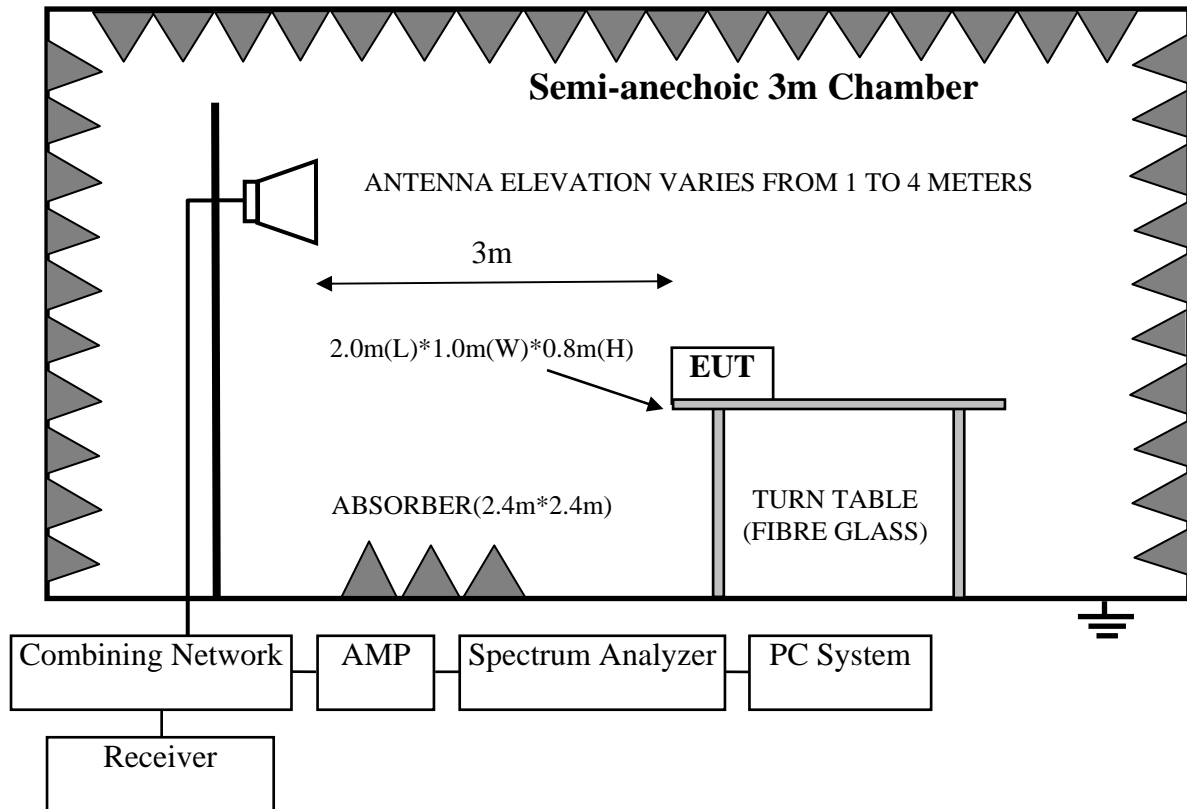
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4407B	MY41440292	May.08, 12	1 Year
2	Horn Antenna	EMCO	3115	9510-4580	May.31, 12	1 Year
3	Amplifier	Agilent	8449B	3008A00863	May.08, 12	1 Year
4	RF Cable	Hubersuhner	SUCOFLEX106	77980/6	May.08, 12	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX106	77977/6	May.08, 12	1 Year
6	Horn Antenna	EMCO	3116	00060089	Nov.25,11	1.5 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	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

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

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

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

4.3.2. 15.205 Restricted bands of operation

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

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

4.4.EUT Configuration on Test

The configurations of EUT are listed in Section 3.5.

4.5.Operating Condition of EUT

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

4.6.Test Procedure

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna are set on test.

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

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

The bandwidth of the Spectrum's VBW is set at 3MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

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

4.7.Radiated Emission Test Results

PASS.

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

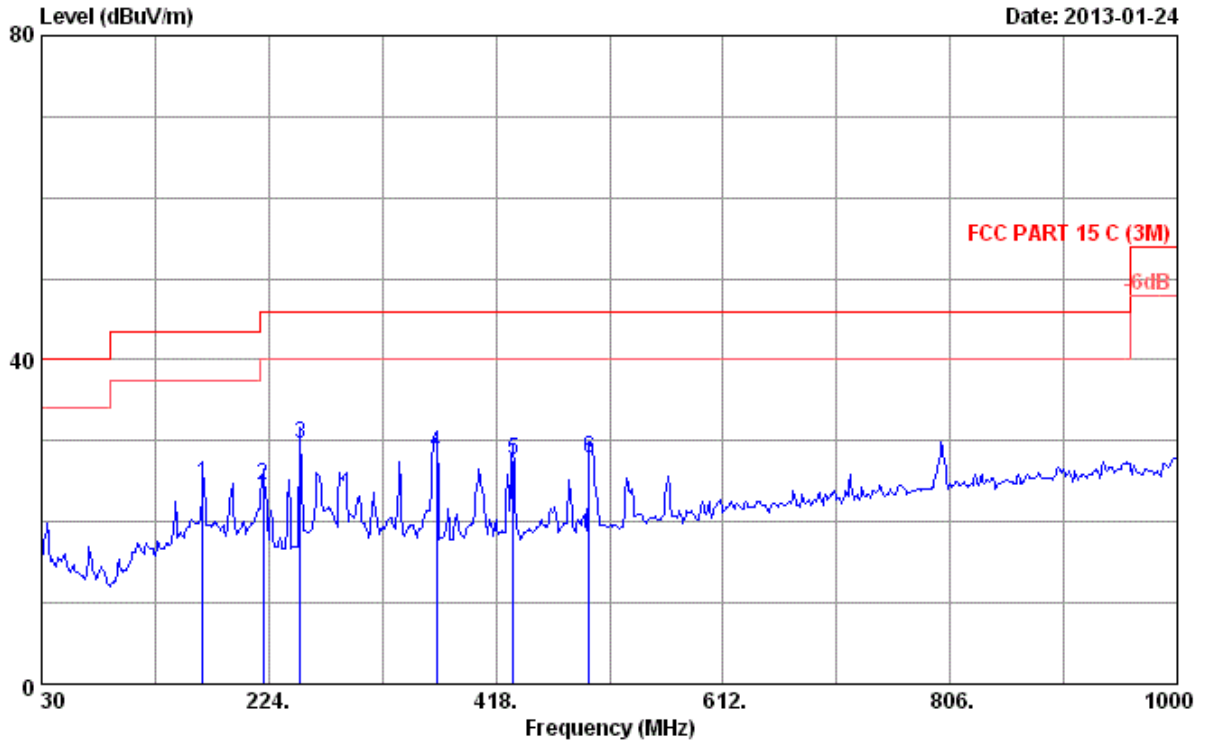
Note: For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.

Frequency: 30MHz~1GHz

Data: 1

File: E:\2012 Report Data\D\D-LINK\ACS12Q2730.EM6 (8)

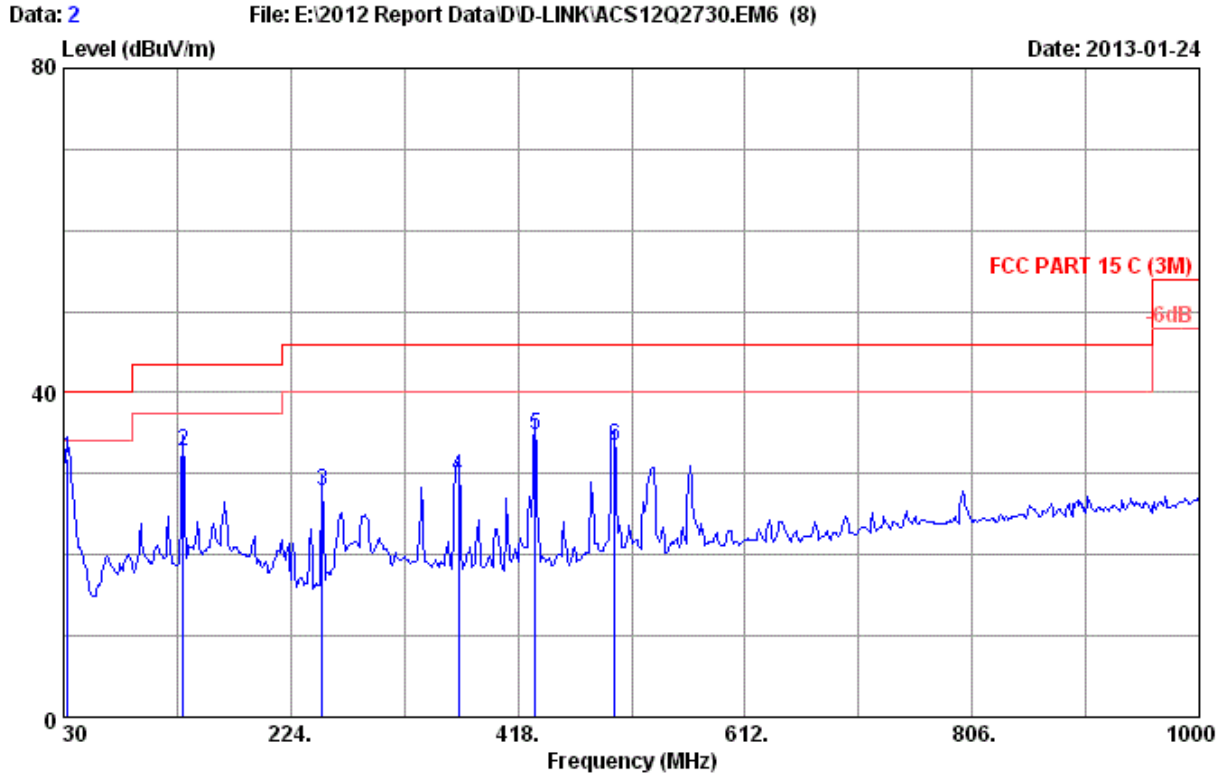
Date: 2013-01-24



Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m 9168-429 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 24°C/56% Engineer : Even
 EUT : WIRELESS N 150 USB ADAPTER
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : Tx Mode
 M/N:DWA-125

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	167.740	13.40	1.00	10.35	24.75	43.50	18.75	QP
2	219.150	10.59	1.11	12.74	24.44	46.00	21.56	QP
3	251.160	11.59	1.18	16.89	29.66	46.00	16.34	QP
4	367.560	14.17	1.46	12.84	28.47	46.00	17.53	QP
5	432.550	15.56	1.64	10.41	27.61	46.00	18.39	QP
6	497.540	16.48	1.83	9.62	27.93	46.00	18.07	QP

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



Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 9168-429 Ant. pol. : VERTICAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 24°C/56% Engineer : Even
 EUT : WIRELESS N 150 USB ADAPTER
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : Tx Mode
 M/N:DWA-125

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	33.240	13.33	0.45	18.00	31.78	40.00	8.22	QP
2	131.850	12.92	0.91	18.99	32.82	43.50	10.68	QP
3	251.160	11.59	1.18	15.03	27.80	46.00	18.20	QP
4	367.560	14.17	1.46	13.93	29.56	46.00	16.44	QP
5	432.550	15.56	1.64	17.56	34.76	46.00	11.24	QP
6	500.450	16.52	1.83	15.09	33.44	46.00	12.56	QP

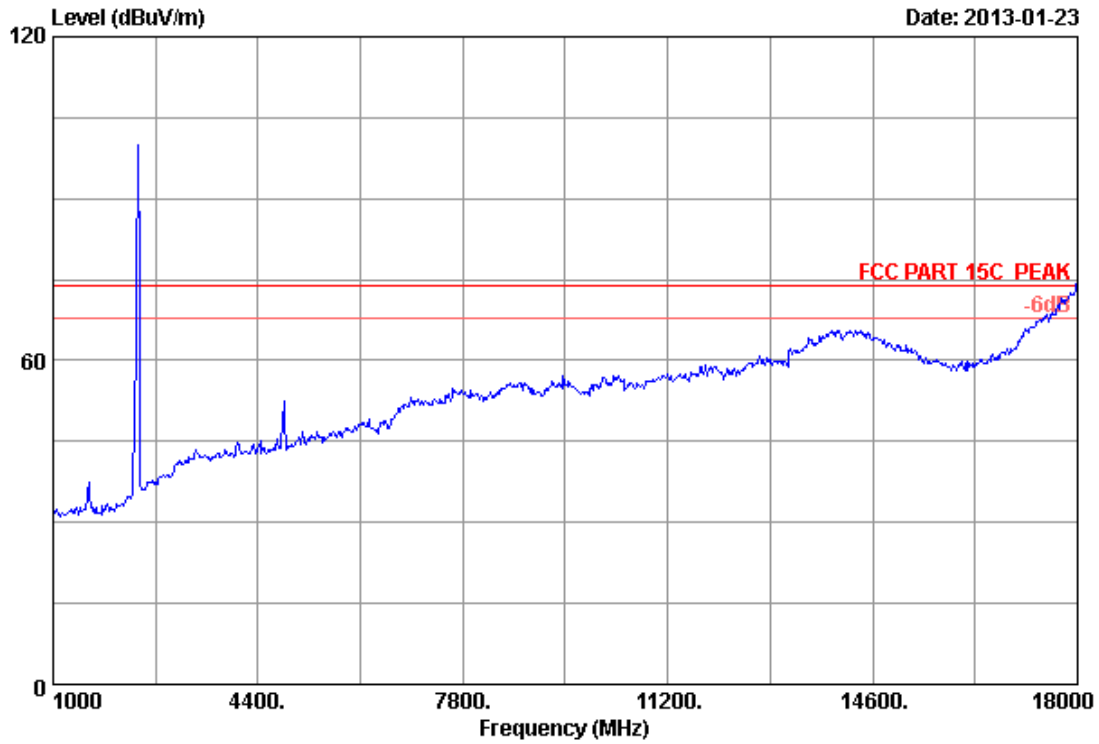
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Frequency: 1GHz~18GHz

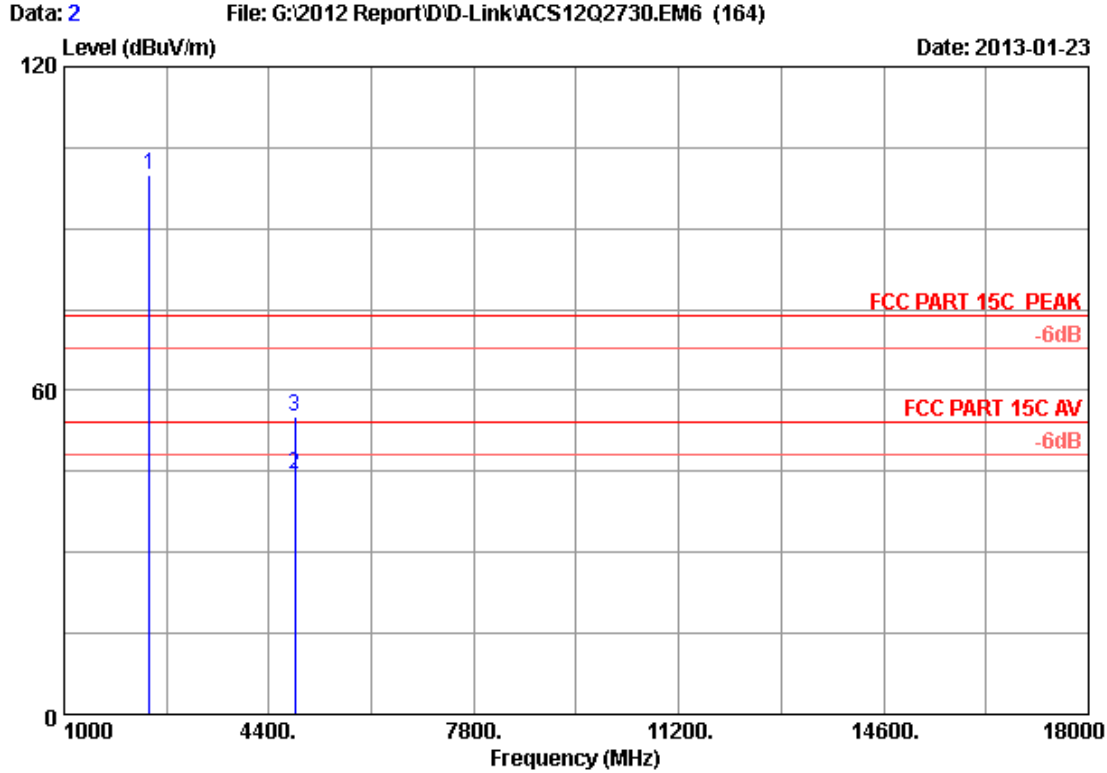
Data: 1

File: G:\2012 Report\DVD-Link\ACS12Q2730.EM6 (164)

Date: 2013-01-23



Site no. : 3m Chamber Data no. : 1
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 20°C/49% Engineer : Tony_yan
EUT : WIRELESS N 150 USB ADAPTER
Power supply : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11b CH1 2412MHz
M/N : DWA-125
:

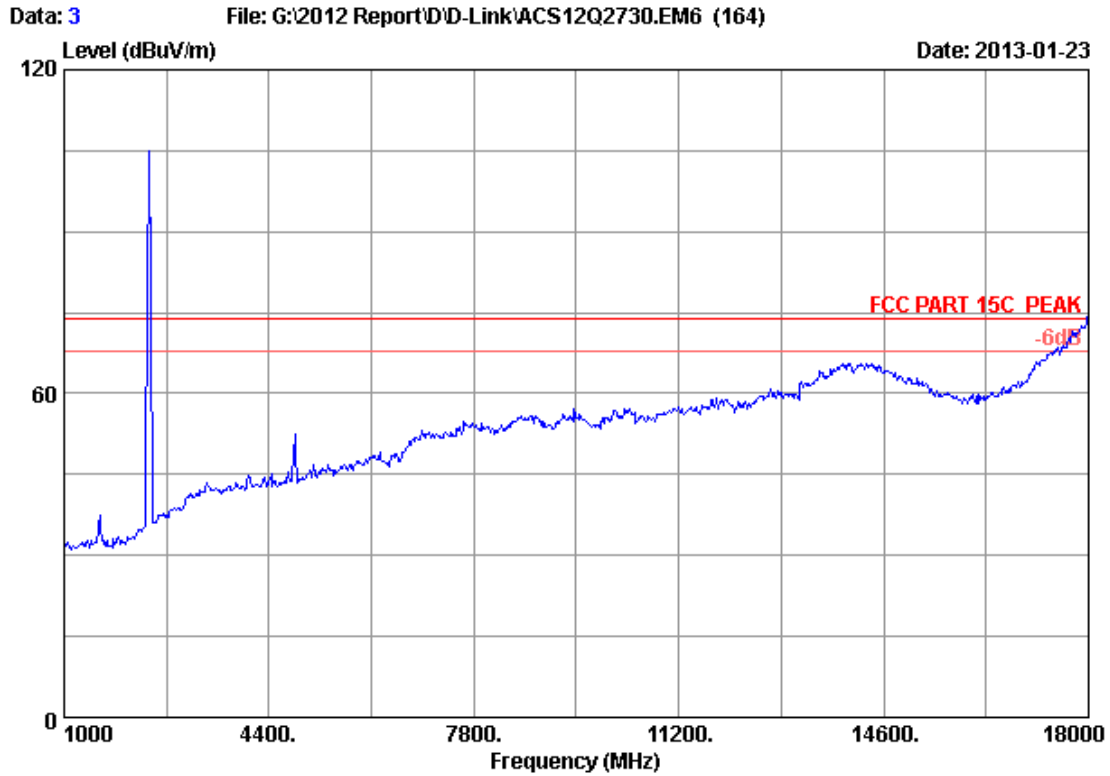


Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz
 M/N : DWA-125
 :

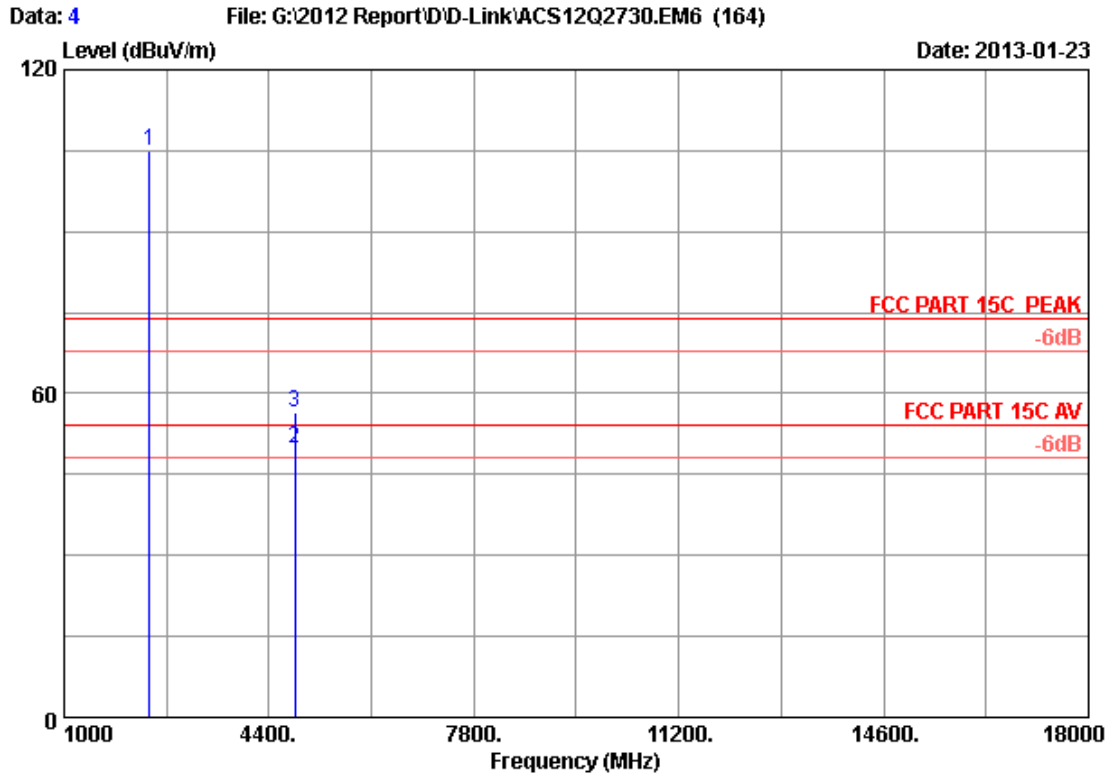
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2412.000	26.84	6.04	35.92	102.89	99.85	74.00	-25.85	Peak
2	4824.000	32.51	8.69	35.71	38.92	44.41	54.00	9.59	Average
3	4824.000	32.51	8.69	35.71	49.69	55.18	74.00	18.82	Peak

Remarks:

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



Site no. : 3m Chamber Data no. : 3
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 20°C/49% Engineer : Tony_yan
EUT : WIRELESS N 150 USB ADAPTER
Power supply : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11b CH1 2412MHz
M/N : DWA-125
:

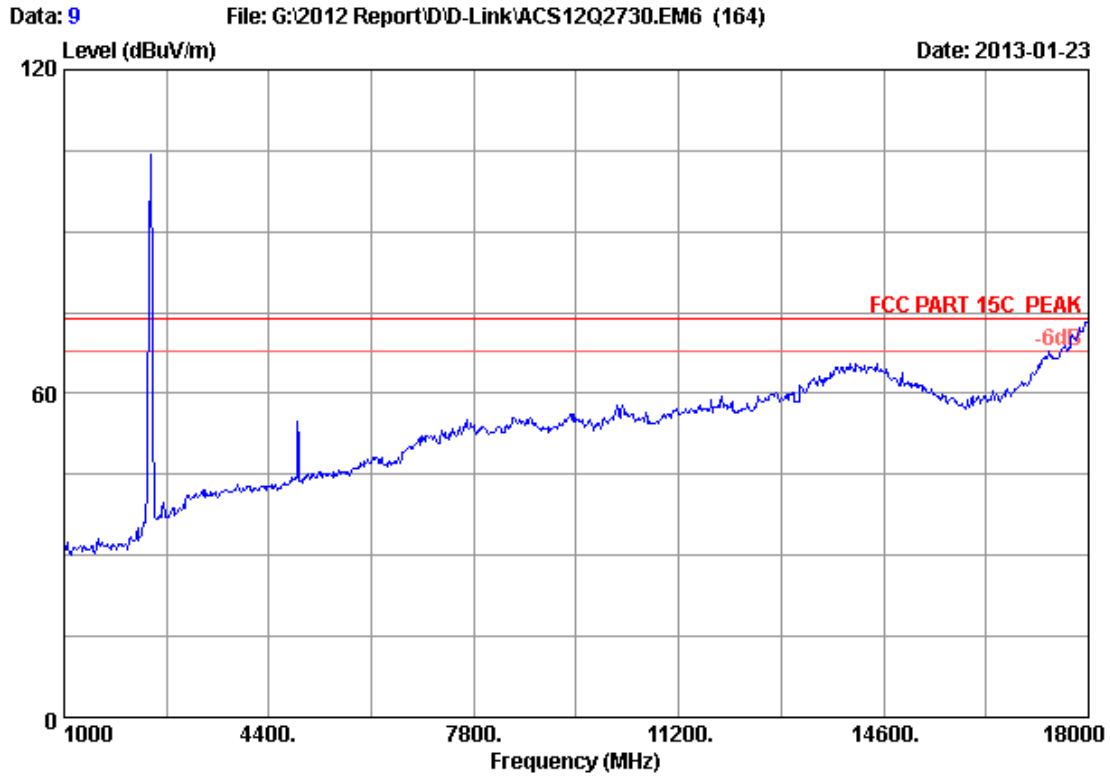


Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz
 M/N : DWA-125
 :

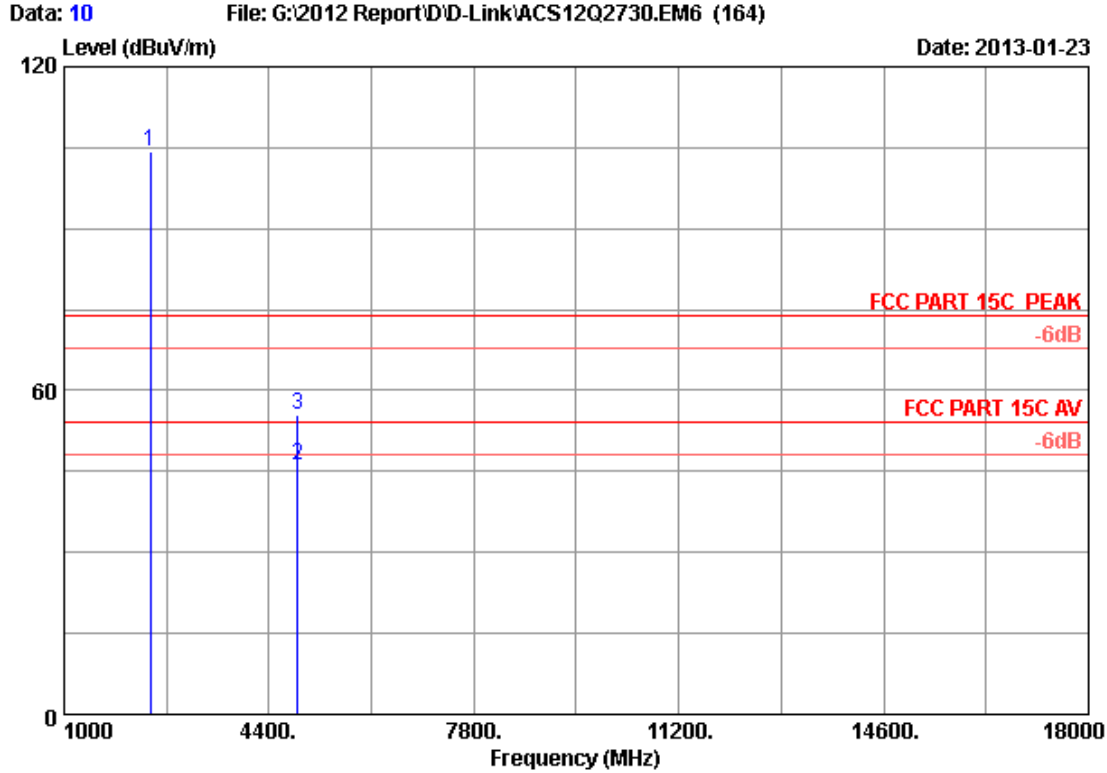
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2412.000	26.84	6.04	35.92	107.89	104.85	74.00	-30.85	Peak
2	4824.000	32.51	8.69	35.71	44.37	49.86	54.00	4.14	Average
3	4824.000	32.51	8.69	35.71	50.96	56.45	74.00	17.55	Peak

Remarks:

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



Site no. : 3m Chamber Data no. : 9
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 20°C/49% Engineer : Tony_yan
EUT : WIRELESS N 150 USB ADAPTER
Power supply : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11b CH6 2437MHz
M/N : DWA-125
:

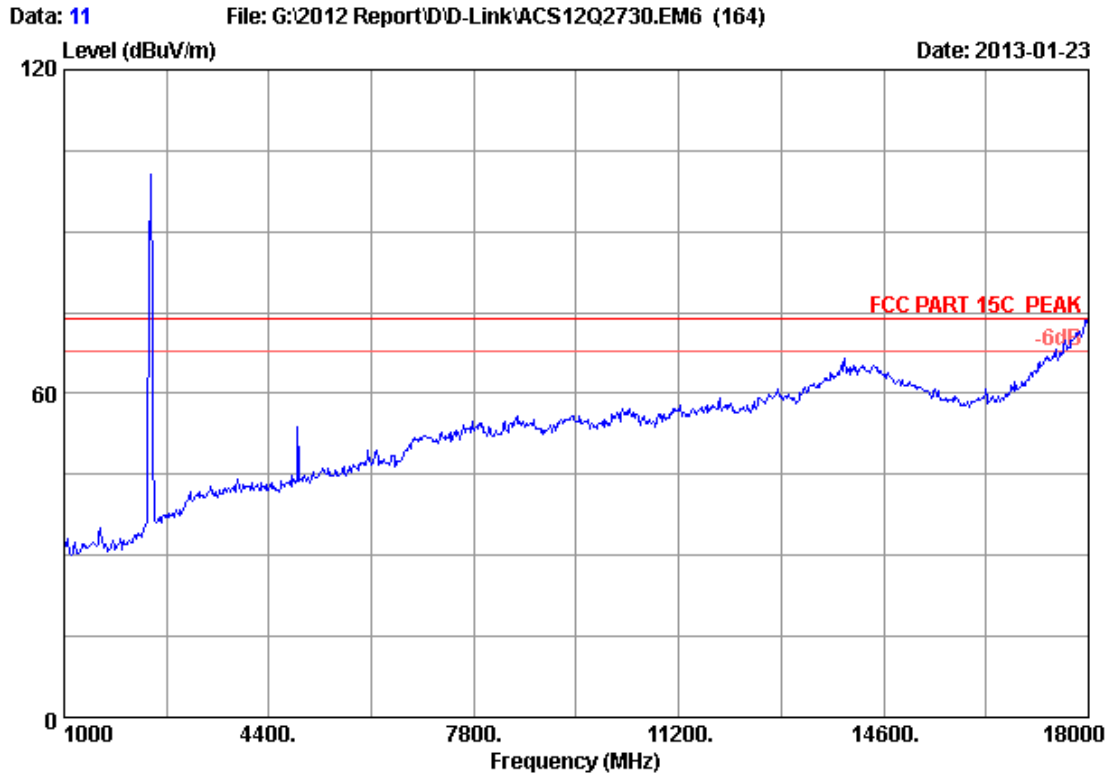


Site no. : 3m Chamber Data no. : 10
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz
 M/N : DWA-125
 :

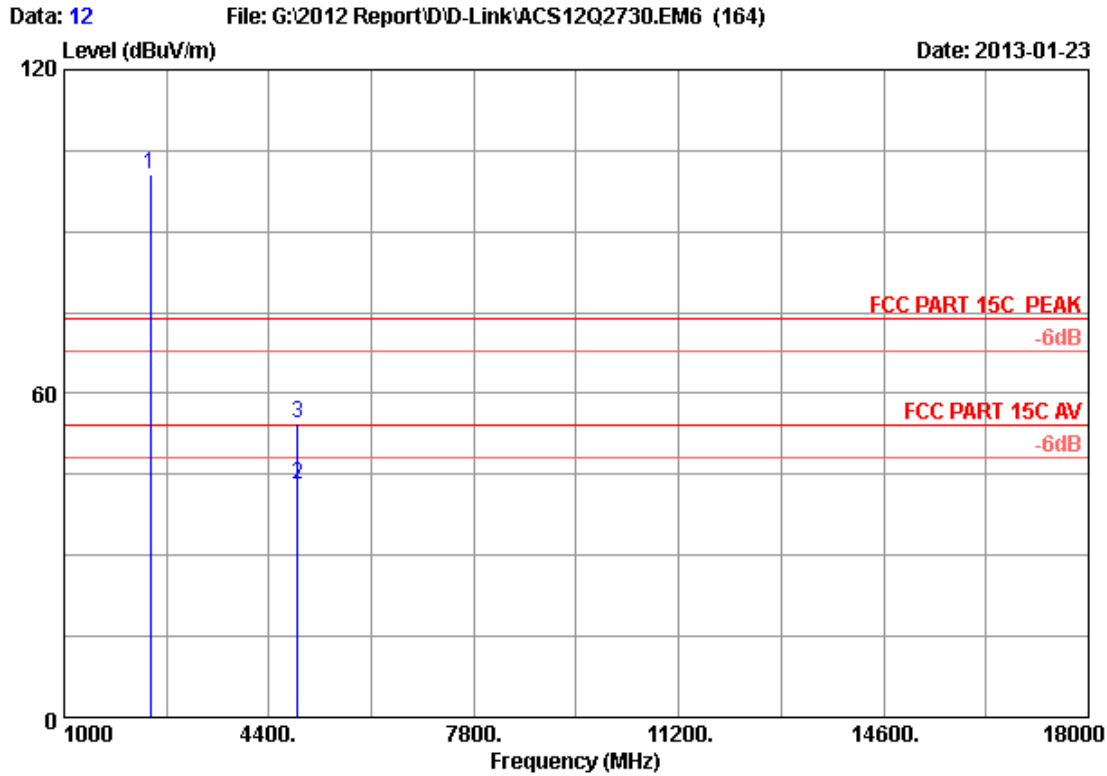
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2437.000	27.00	6.08	35.92	107.28	104.44	74.00	-30.44	Peak
2	4874.000	32.62	8.73	35.69	40.52	46.18	54.00	7.82	Average
3	4874.000	32.62	8.73	35.69	49.67	55.33	74.00	18.67	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.



Site no. : 3m Chamber Data no. : 11
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 20°C/49% Engineer : Tony_yan
EUT : WIRELESS N 150 USB ADAPTER
Power supply : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11b CH6 2437MHz
M/N : DWA-125
:

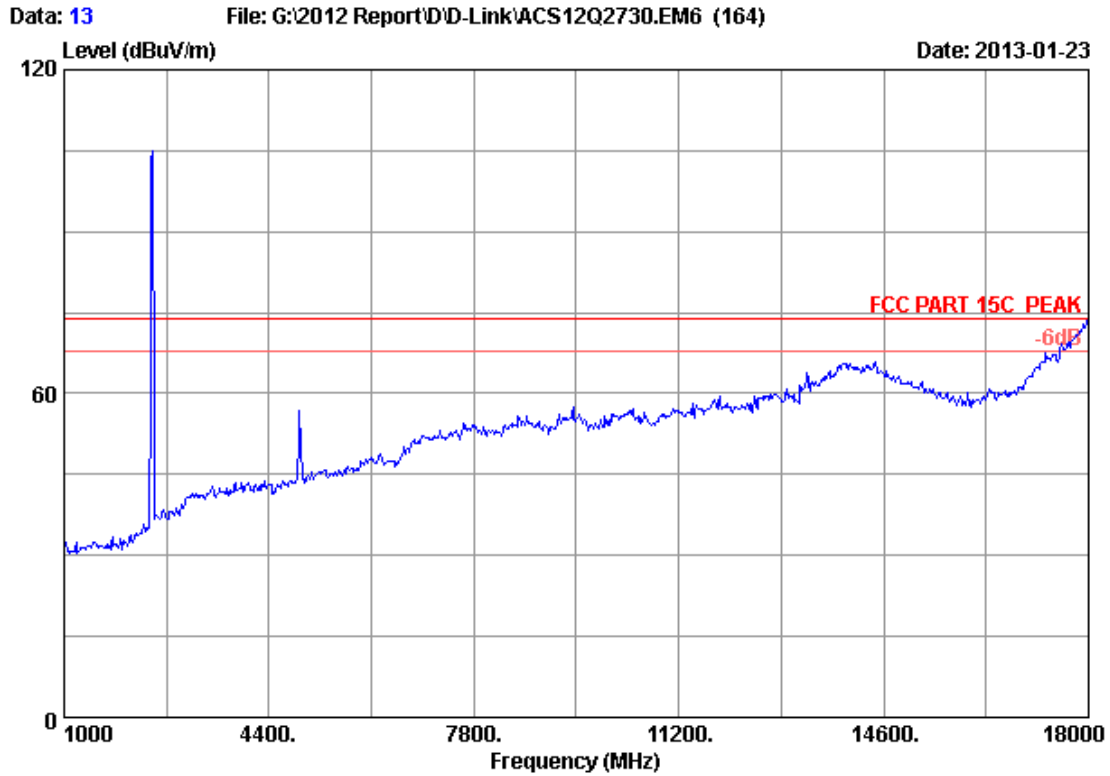


Site no. : 3m Chamber Data no. : 12
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz
 M/N : DWA-125
 :

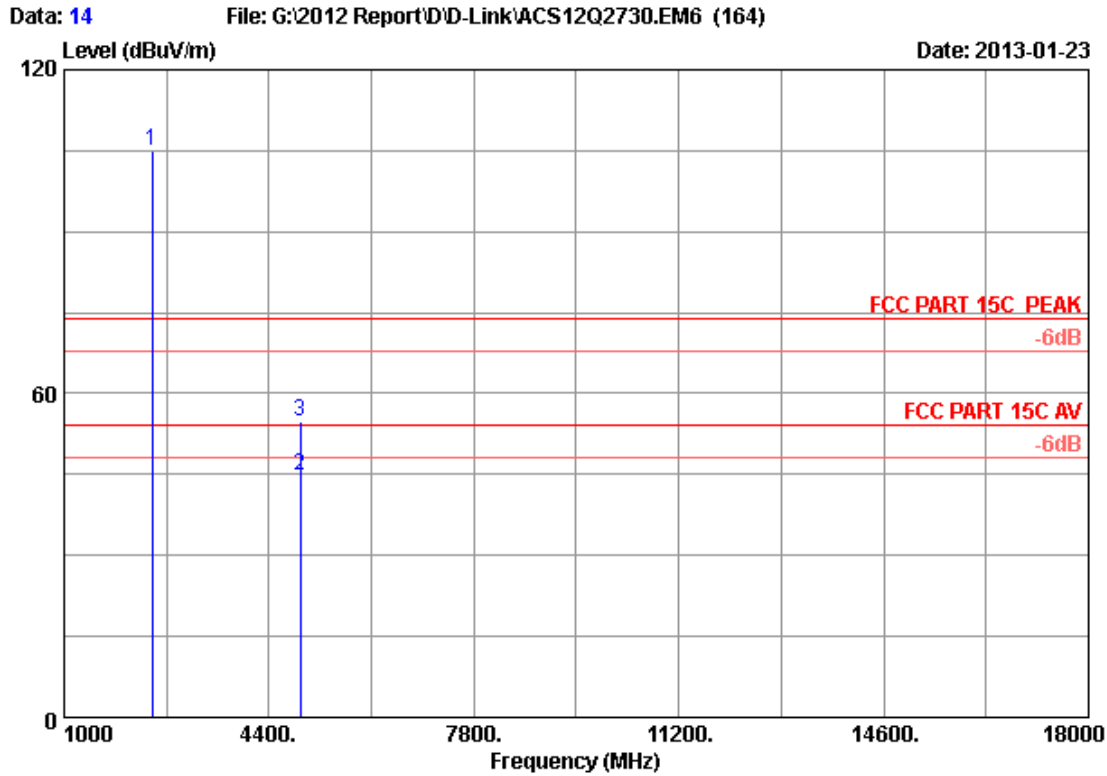
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2437.000	27.00	6.08	35.92	103.50	100.66	74.00	-26.66	Peak
2	4874.000	32.62	8.73	35.69	37.59	43.25	54.00	10.75	Average
3	4874.000	32.62	8.73	35.69	48.69	54.35	74.00	19.65	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.



Site no. : 3m Chamber Data no. : 13
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 20°C/49% Engineer : Tony_yan
EUT : WIRELESS N 150 USB ADAPTER
Power supply : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11b CH11 2462MHz
M/N : DWA-125
:

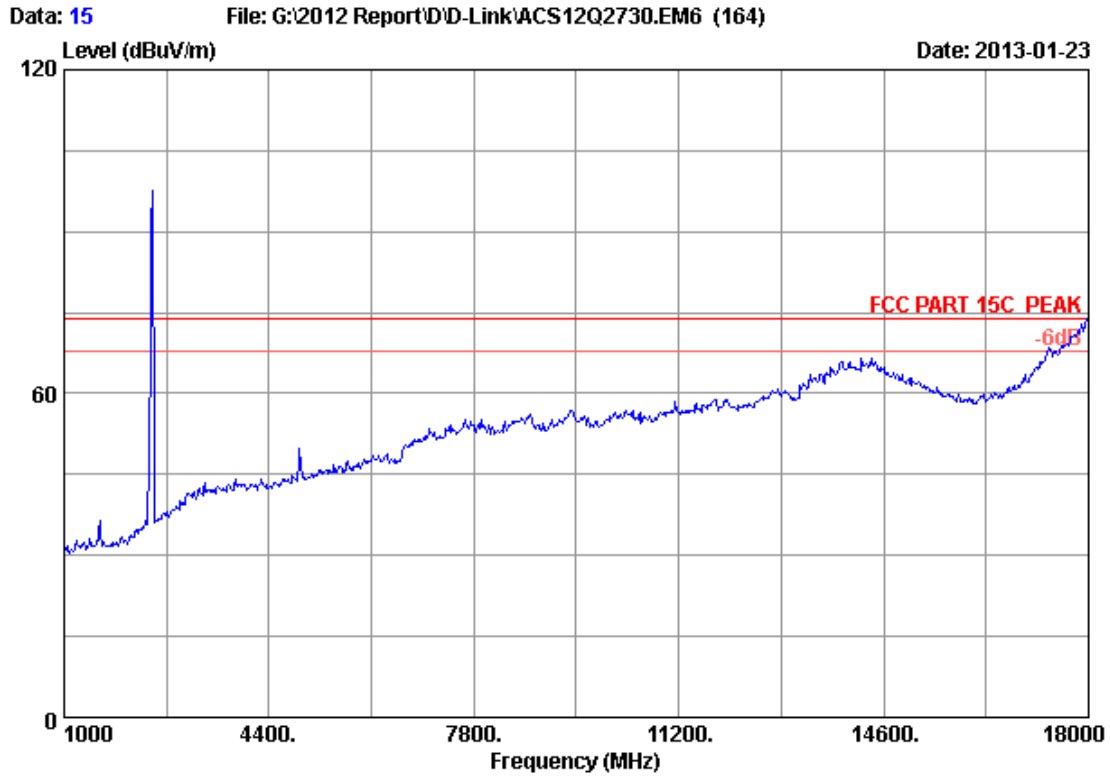


Site no. : 3m Chamber Data no. : 14
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz
 M/N : DWA-125
 :

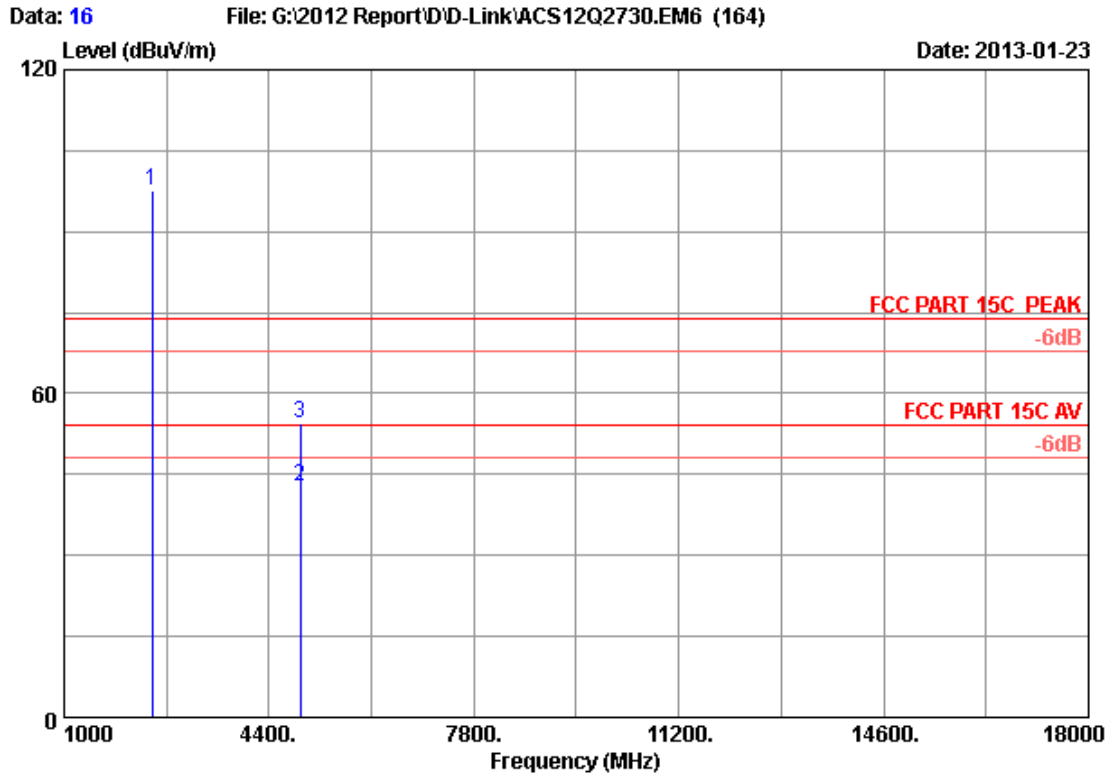
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2462.000	27.16	6.12	35.92	107.56	104.92	74.00	-30.92	Peak
2	4924.000	32.73	8.78	35.68	38.83	44.66	54.00	9.34	Average
3	4924.000	32.73	8.78	35.68	48.88	54.71	74.00	19.29	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.



Site no. : 3m Chamber Data no. : 15
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 20°C/49% Engineer : Tony_yan
EUT : WIRELESS N 150 USB ADAPTER
Power supply : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11b CH11 2462MHz
M/N : DWA-125
:

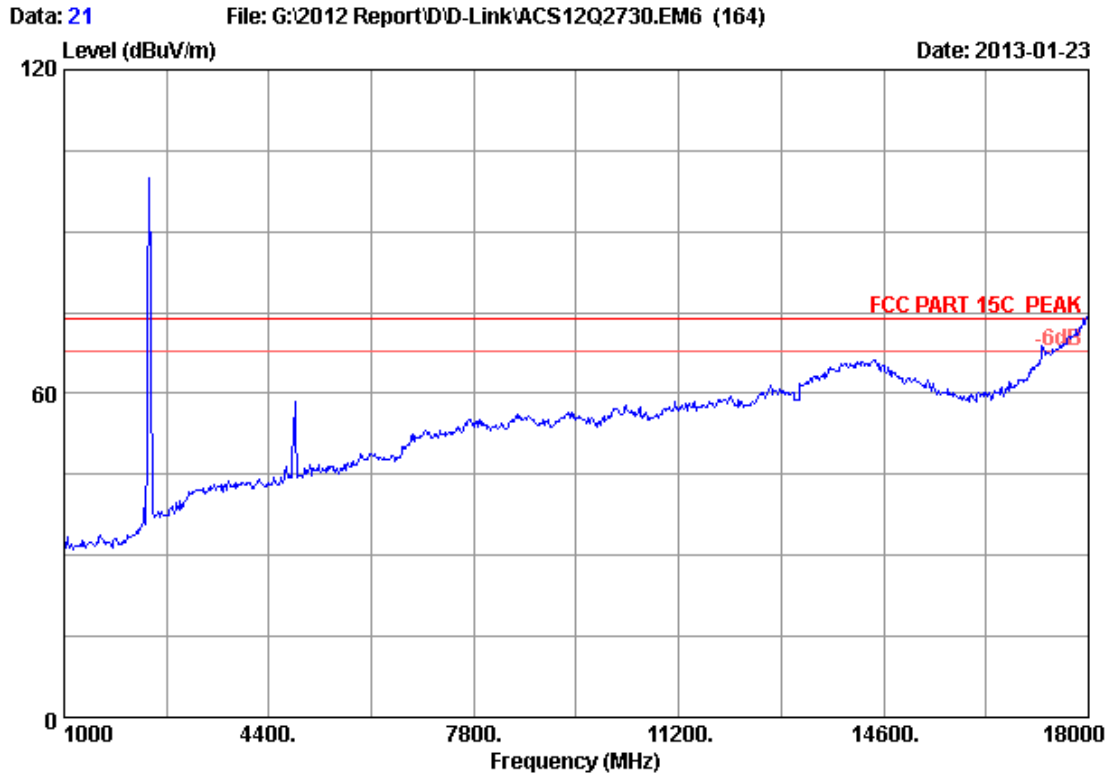


Site no. : 3m Chamber Data no. : 16
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz
 M/N : DWA-125
 :

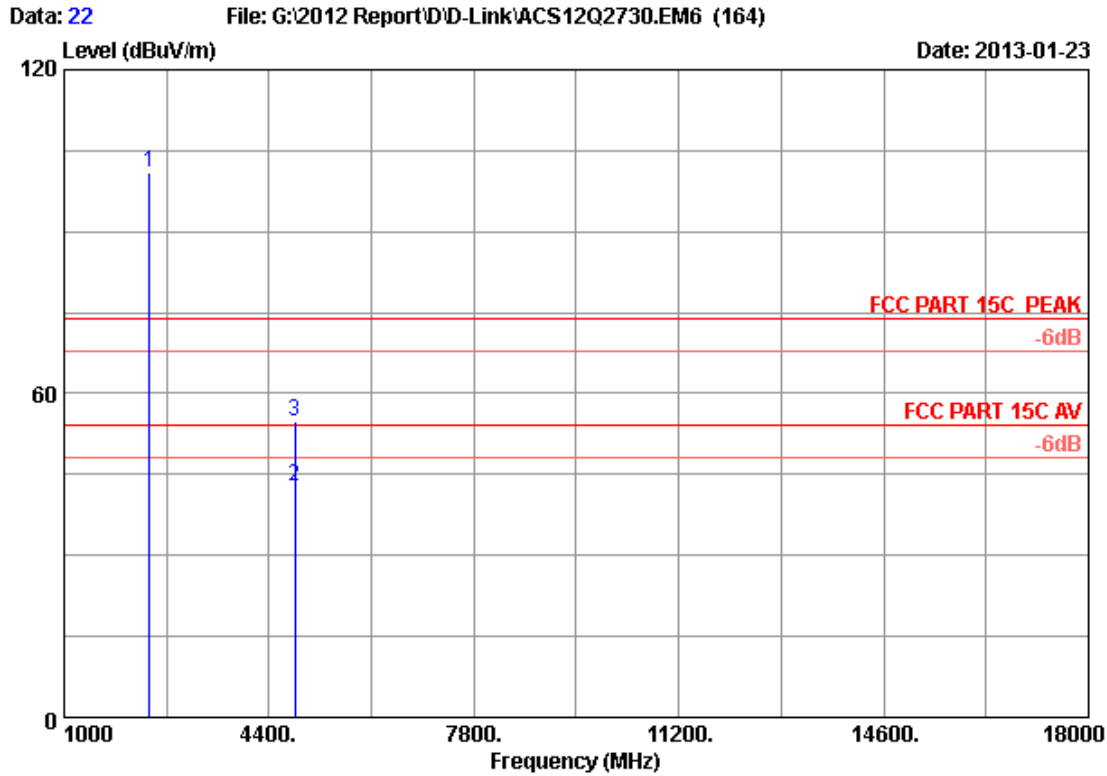
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2462.000	27.16	6.12	35.92	100.27	97.63	74.00	-23.63	Peak
2	4924.000	32.73	8.78	35.68	36.94	42.77	54.00	11.23	Average
3	4924.000	32.73	8.78	35.68	48.76	54.59	74.00	19.41	Peak

Remarks:

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



Site no. : 3m Chamber Data no. : 21
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 20°C/49% Engineer : Tony_yan
EUT : WIRELESS N 150 USB ADAPTER
Power supply : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11g CH1 2412MHz
M/N : DWA-125
:

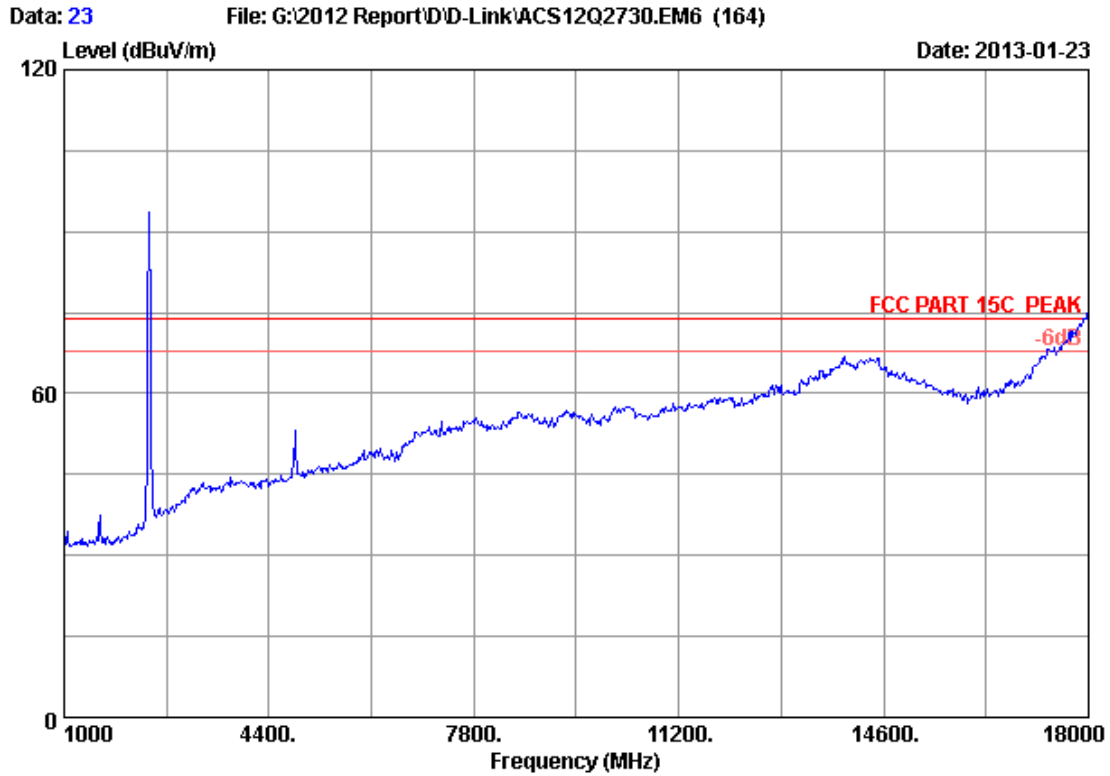


Site no. : 3m Chamber Data no. : 22
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz
 M/N : DWA-125
 :

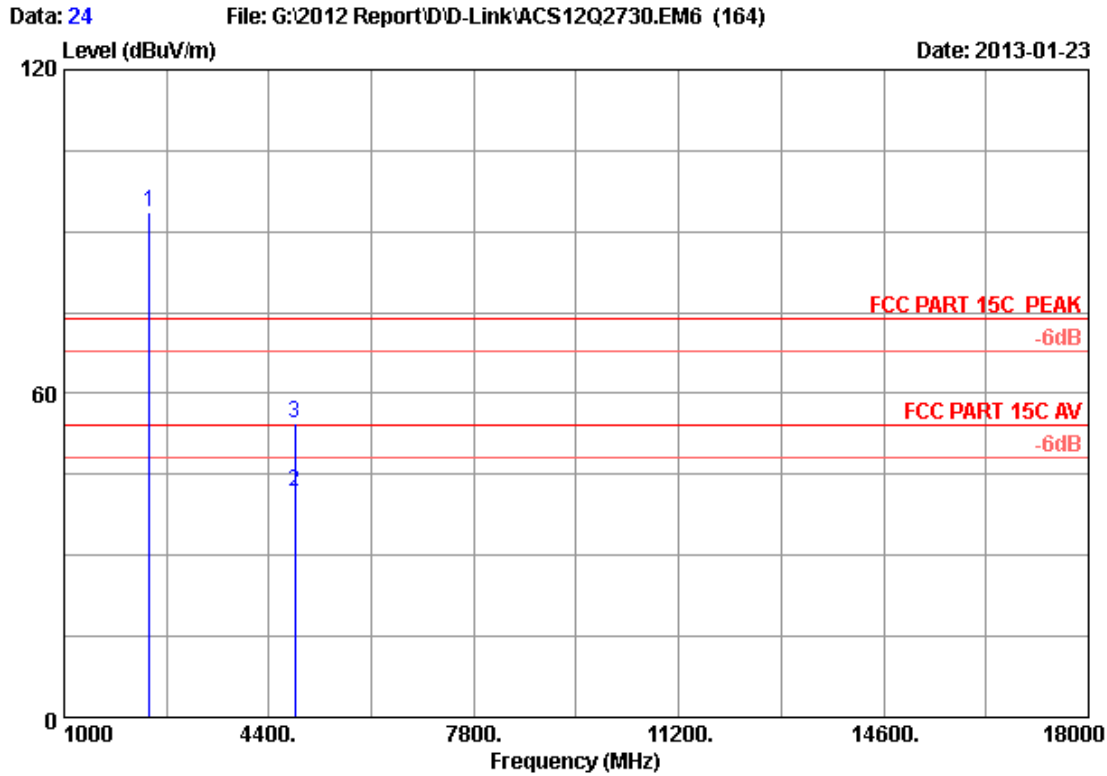
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2412.000	26.84	6.04	35.92	104.14	101.10	74.00	-27.10	Peak
2	4824.000	32.51	8.69	35.71	37.19	42.68	54.00	11.32	Average
3	4824.000	32.51	8.69	35.71	49.24	54.73	74.00	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.



Site no. : 3m Chamber Data no. : 23
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 20°C/49% Engineer : Tony_yan
EUT : WIRELESS N 150 USB ADAPTER
Power supply : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11g CH1 2412MHz
M/N : DWA-125
:

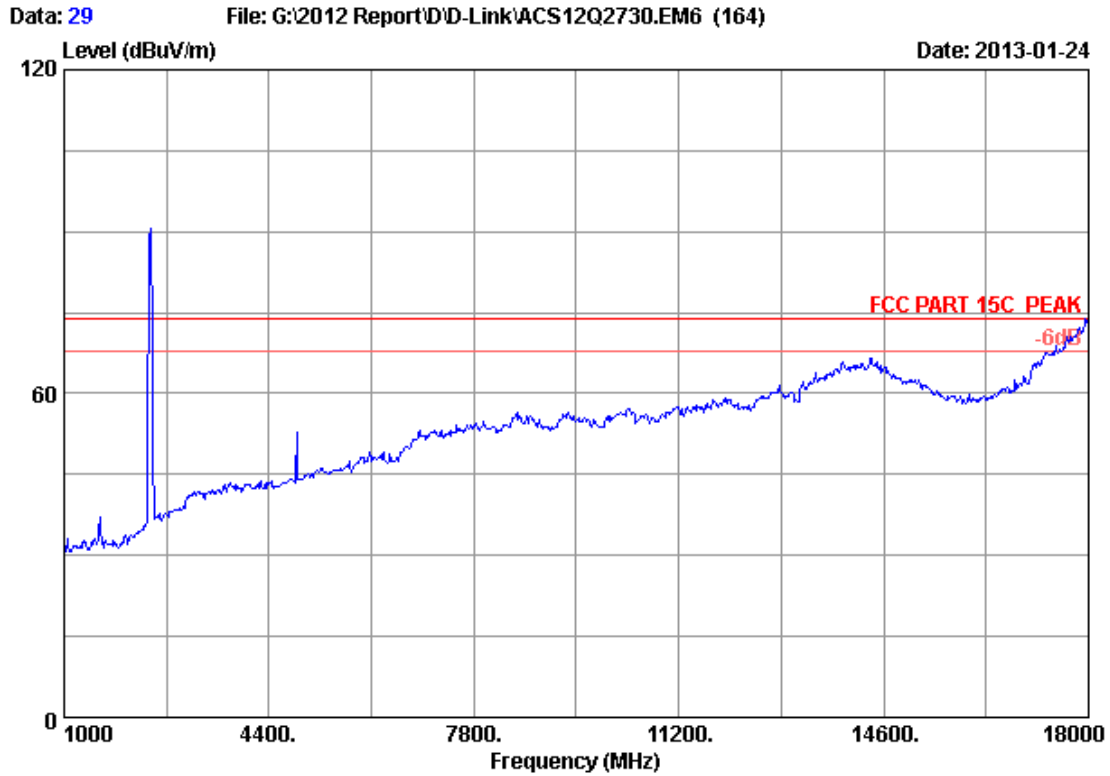


Site no. : 3m Chamber Data no. : 24
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz
 M/N : DWA-125
 :

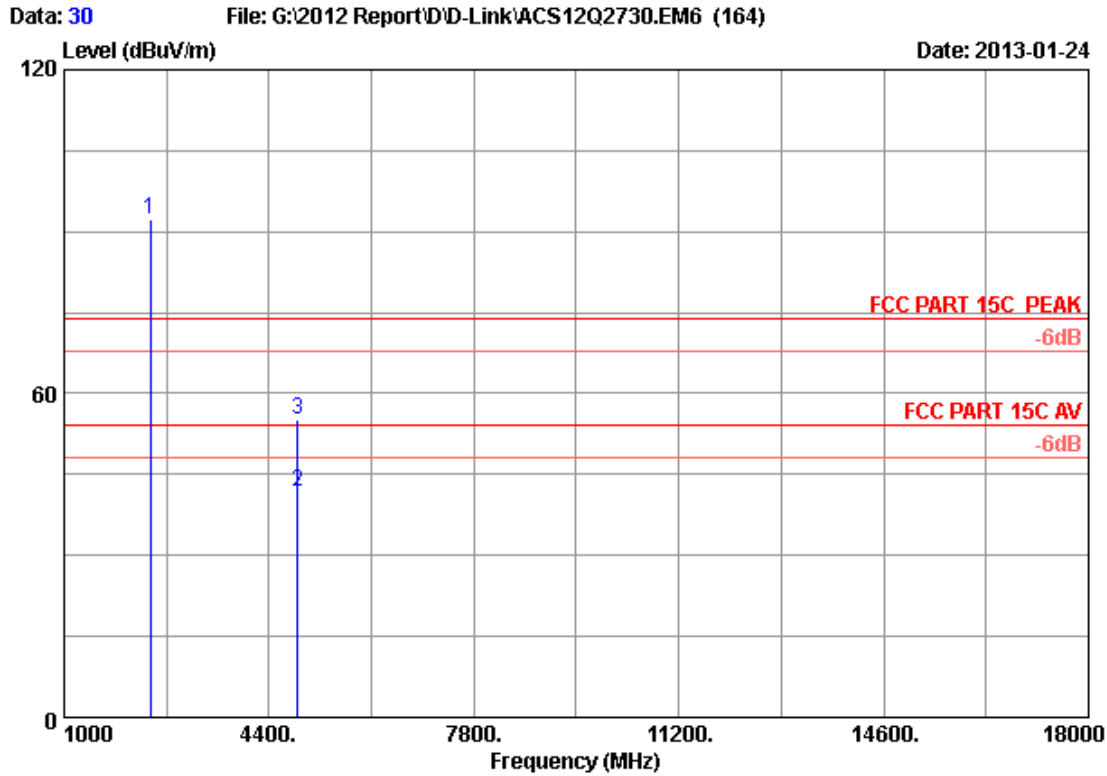
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.000	26.84	6.04	35.92	96.79	93.75	74.00	-19.75	Peak
2	4824.000	32.51	8.69	35.71	36.15	41.64	54.00	12.36	Average
3	4824.000	32.51	8.69	35.71	49.00	54.49	74.00	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.



Site no. : 3m Chamber Data no. : 29
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 20°C/49% Engineer : Tony_yan
EUT : WIRELESS N 150 USB ADAPTER
Power supply : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11g CH6 2437MHz
M/N : DWA-125
:

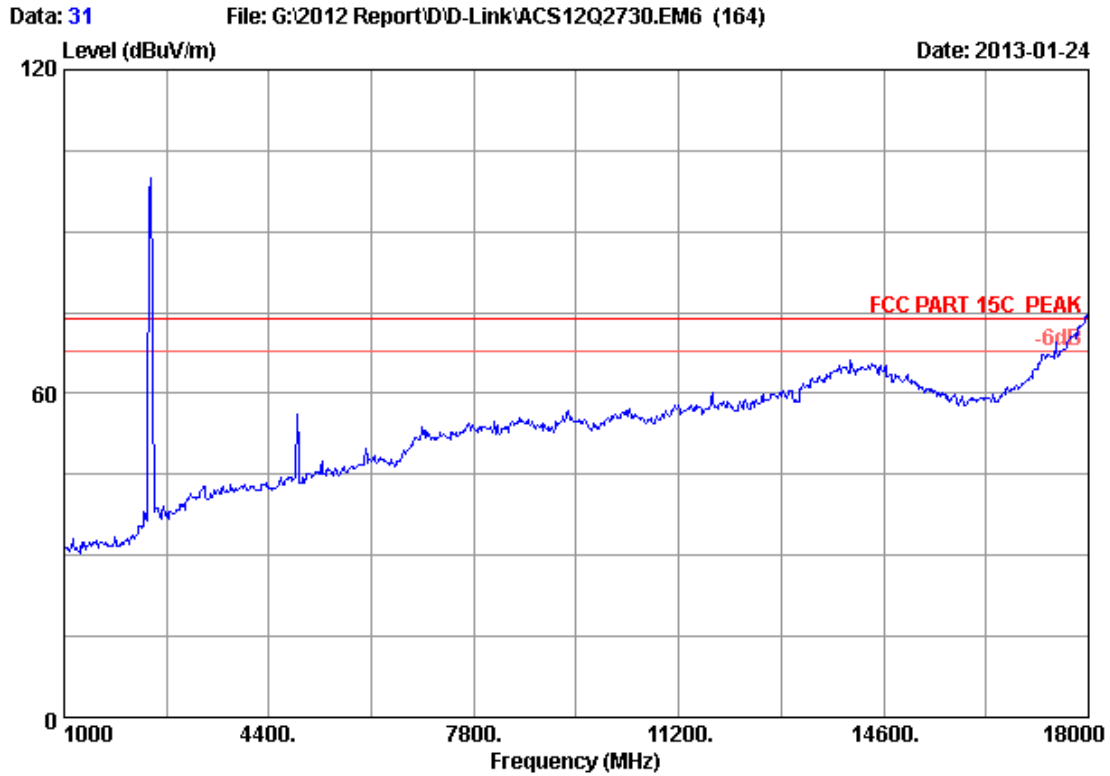


Site no. : 3m Chamber Data no. : 30
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz
 M/N : DWA-125
 :

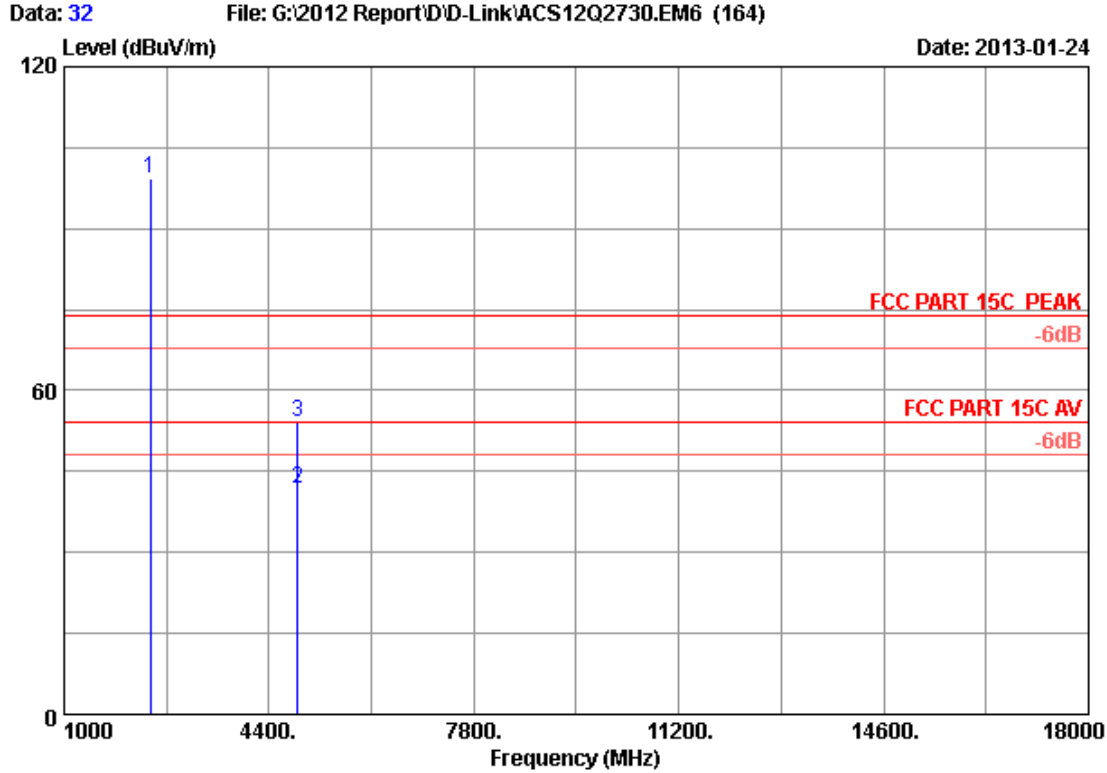
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2437.000	27.00	6.08	35.92	95.22	92.38	74.00	-18.38	Peak
2	4874.000	32.62	8.73	35.69	36.02	41.68	54.00	12.32	Average
3	4874.000	32.62	8.73	35.69	49.43	55.09	74.00	18.91	Peak

Remarks:

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



Site no. : 3m Chamber Data no. : 31
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 20°C/49% Engineer : Tony_yan
EUT : WIRELESS N 150 USB ADAPTER
Power supply : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11g CH6 2437MHz
M/N : DWA-125
:

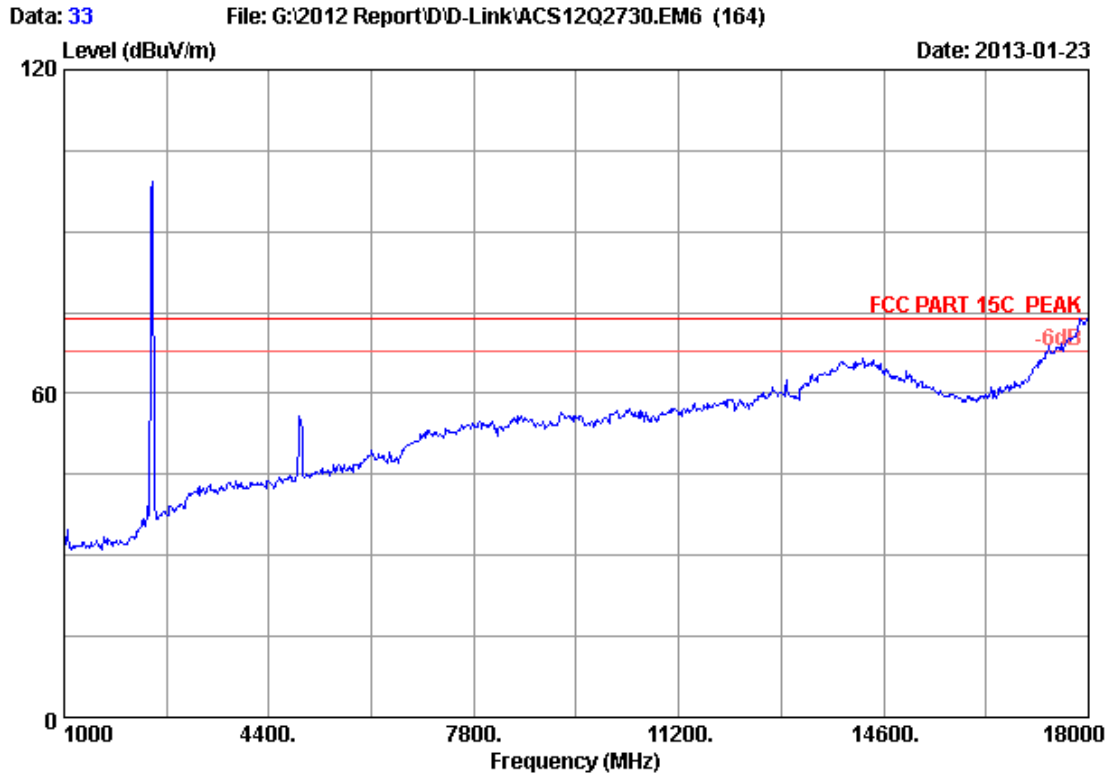


Site no. : 3m Chamber Data no. : 32
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz
 M/N : DWA-125
 :

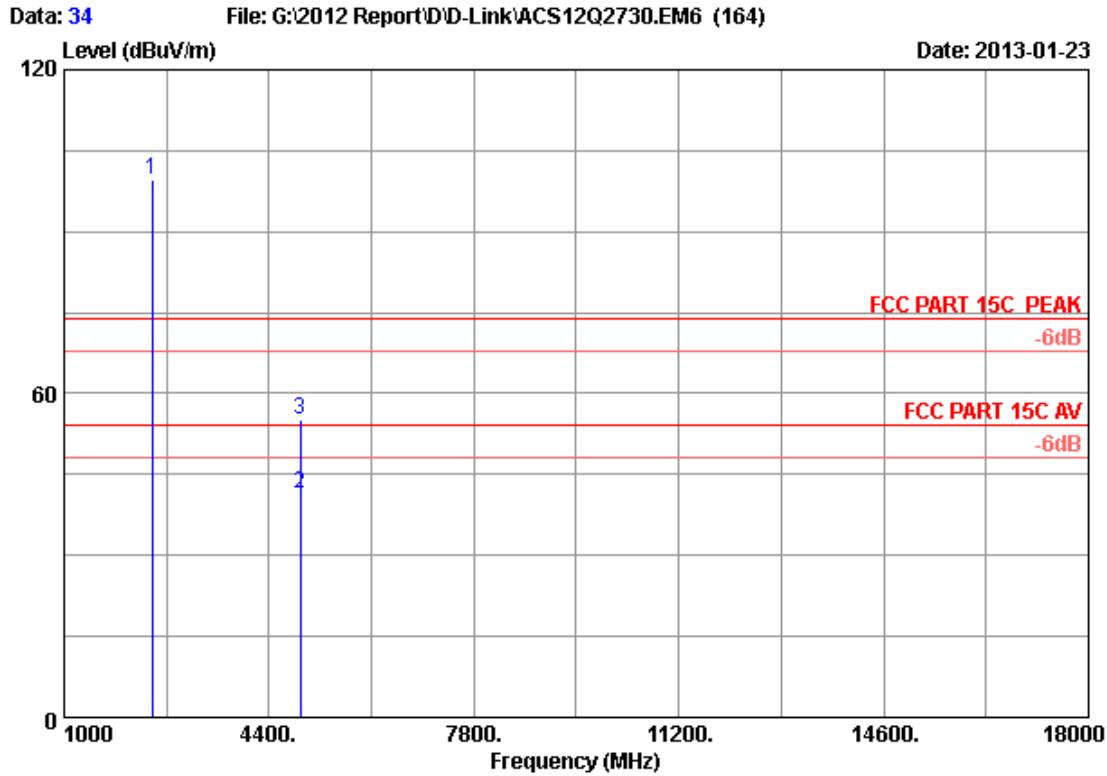
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.000	27.00	6.08	35.92	102.23	99.39	74.00	-25.39	Peak
2	4874.000	32.62	8.73	35.69	36.20	41.86	54.00	12.14	Average
3	4874.000	32.62	8.73	35.69	48.39	54.05	74.00	19.95	Peak

Remarks:

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



Site no. : 3m Chamber Data no. : 33
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 20°C/49% Engineer : Tony_yan
EUT : WIRELESS N 150 USB ADAPTER
Power supply : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz
M/N : DWA-125
:

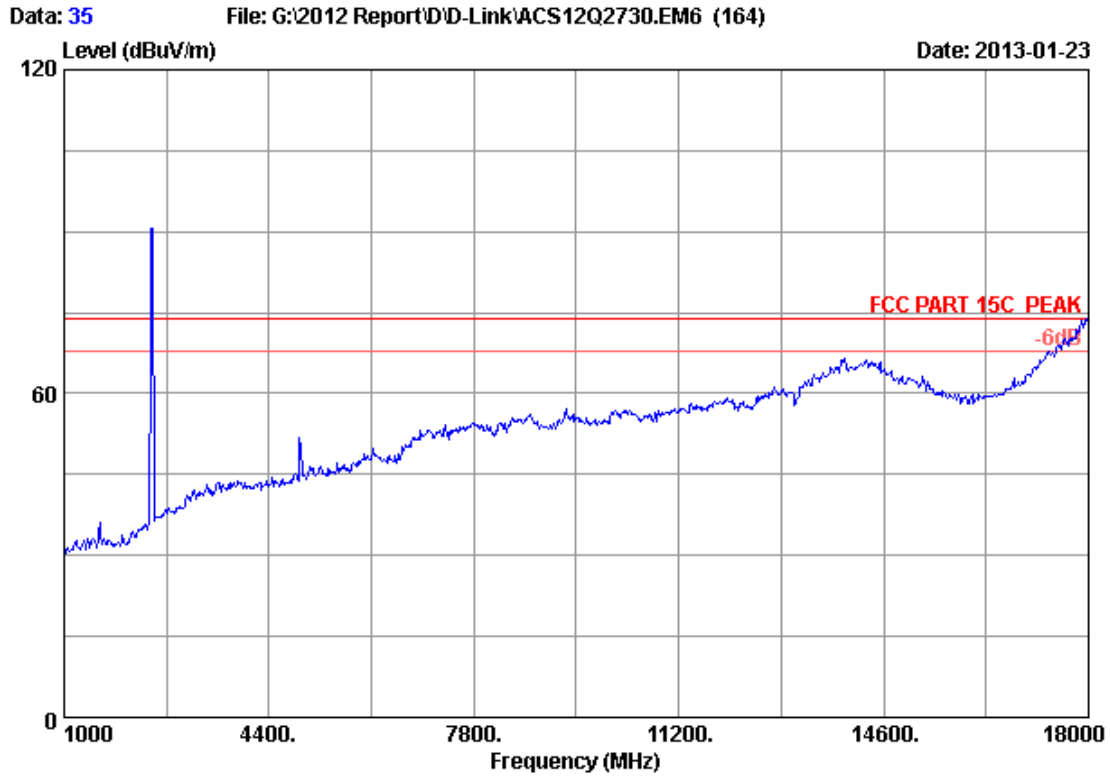


Site no. : 3m Chamber Data no. : 34
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz
 M/N : DWA-125
 :

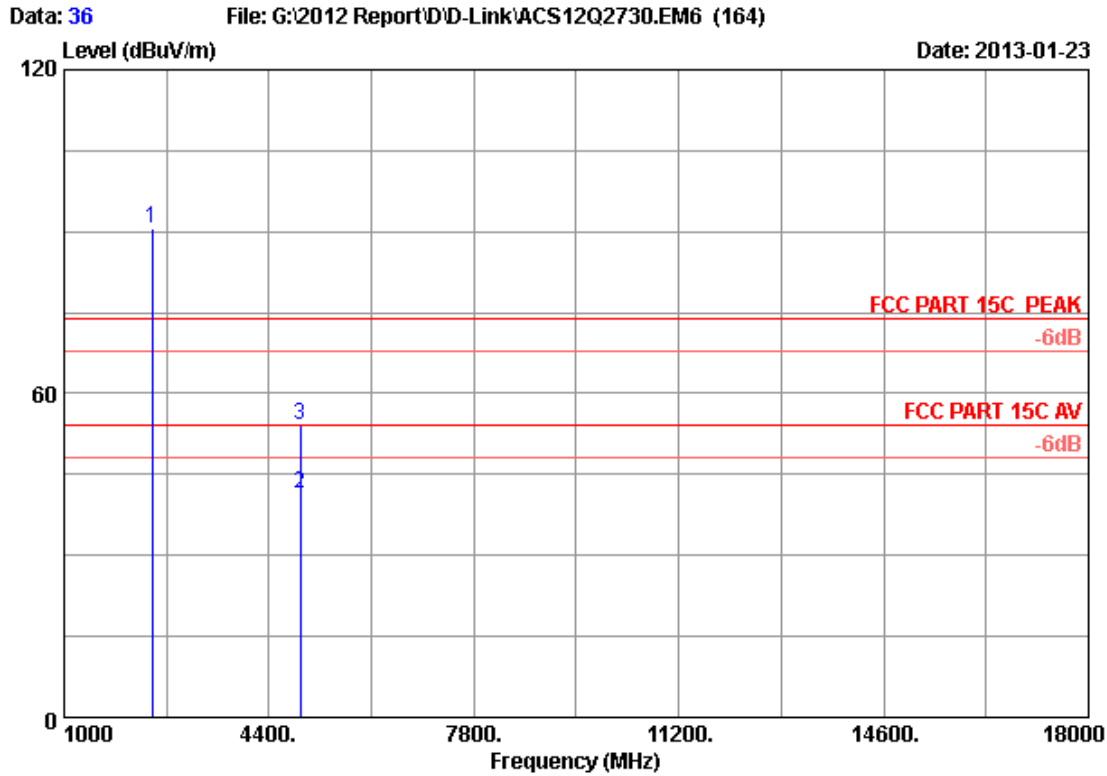
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2462.000	27.16	6.12	35.92	102.16	99.52	74.00	-25.52	Peak
2	4924.000	32.73	8.78	35.68	35.71	41.54	54.00	12.46	Average
3	4924.000	32.73	8.78	35.68	49.44	55.27	74.00	18.73	Peak

Remarks:

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



Site no. : 3m Chamber Data no. : 35
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 20°C/49% Engineer : Tony_yan
EUT : WIRELESS N 150 USB ADAPTER
Power supply : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz
M/N : DWA-125
:

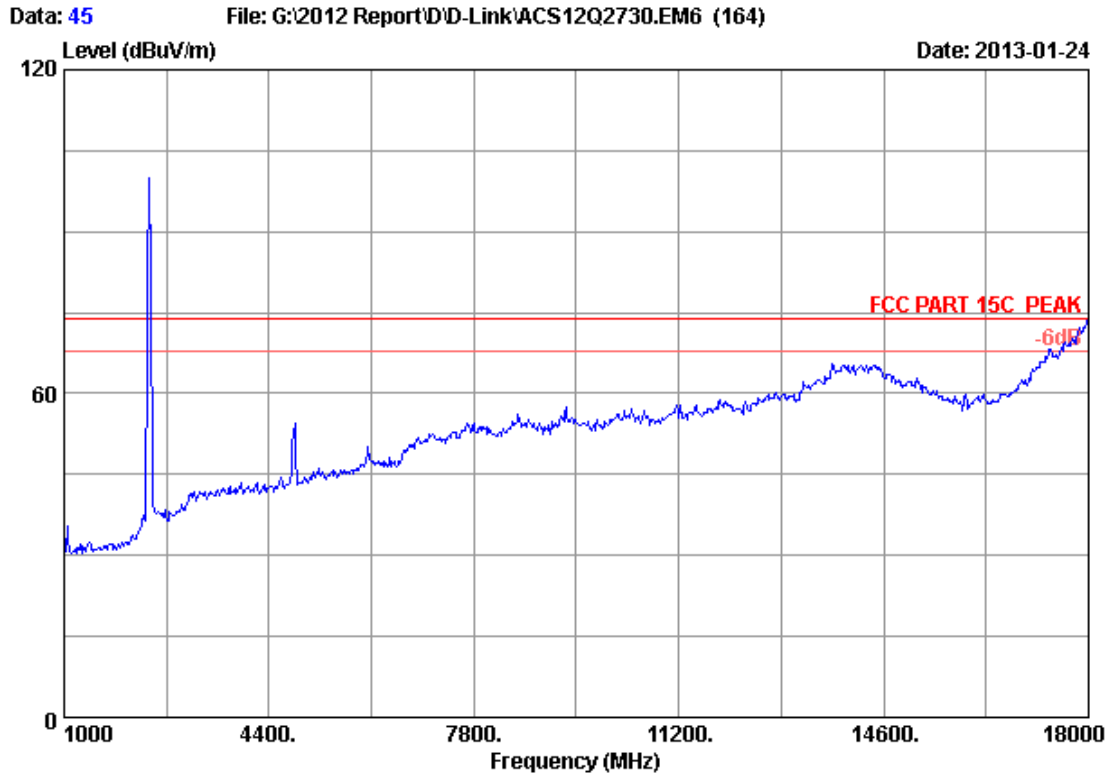


Site no. : 3m Chamber Data no. : 36
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz
 M/N : DWA-125
 :

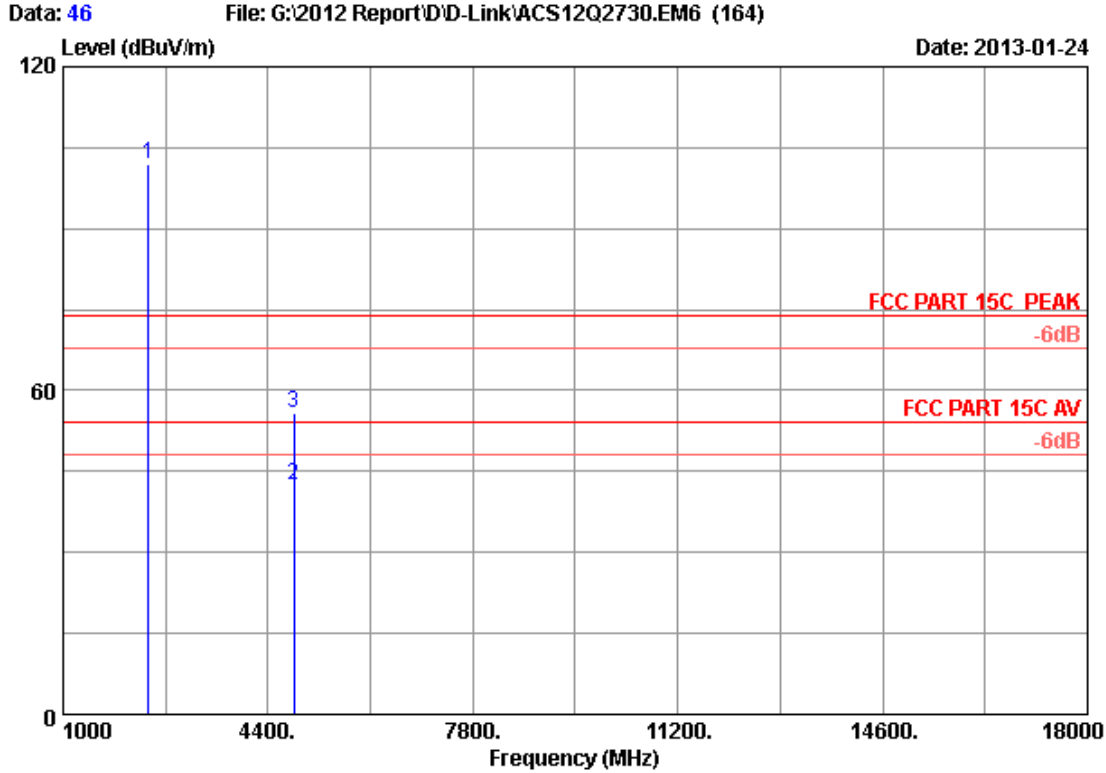
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2462.000	27.16	6.12	35.92	93.22	90.58	74.00	-16.58	Peak
2	4924.000	32.73	8.78	35.68	35.68	41.51	54.00	12.49	Average
3	4924.000	32.73	8.78	35.68	48.42	54.25	74.00	19.75	Peak

Remarks:

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



Site no. : 3m Chamber Data no. : 45
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 20°C/49% Engineer : Tony_yan
EUT : WIRELESS N 150 USB ADAPTER
Power supply : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11nHT20 CH1 2412MHz
M/N : DWA-125
:

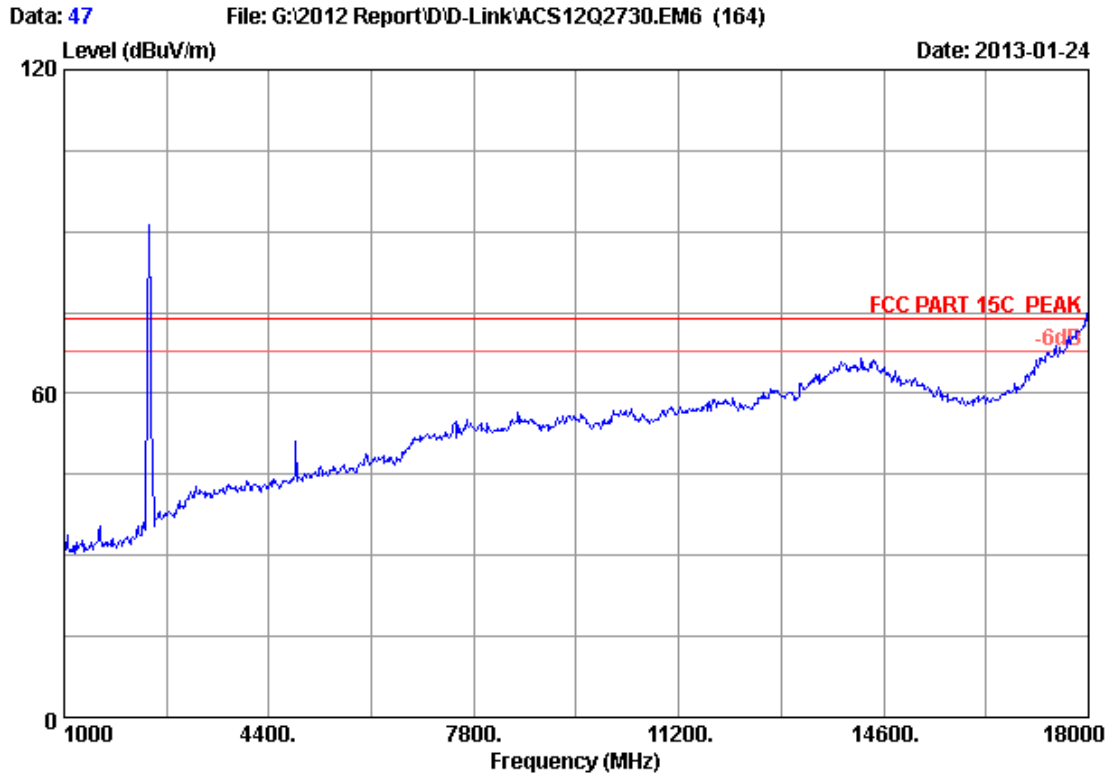


Site no. : 3m Chamber Data no. : 46
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH1 2412MHz
 M/N : DWA-125
 :

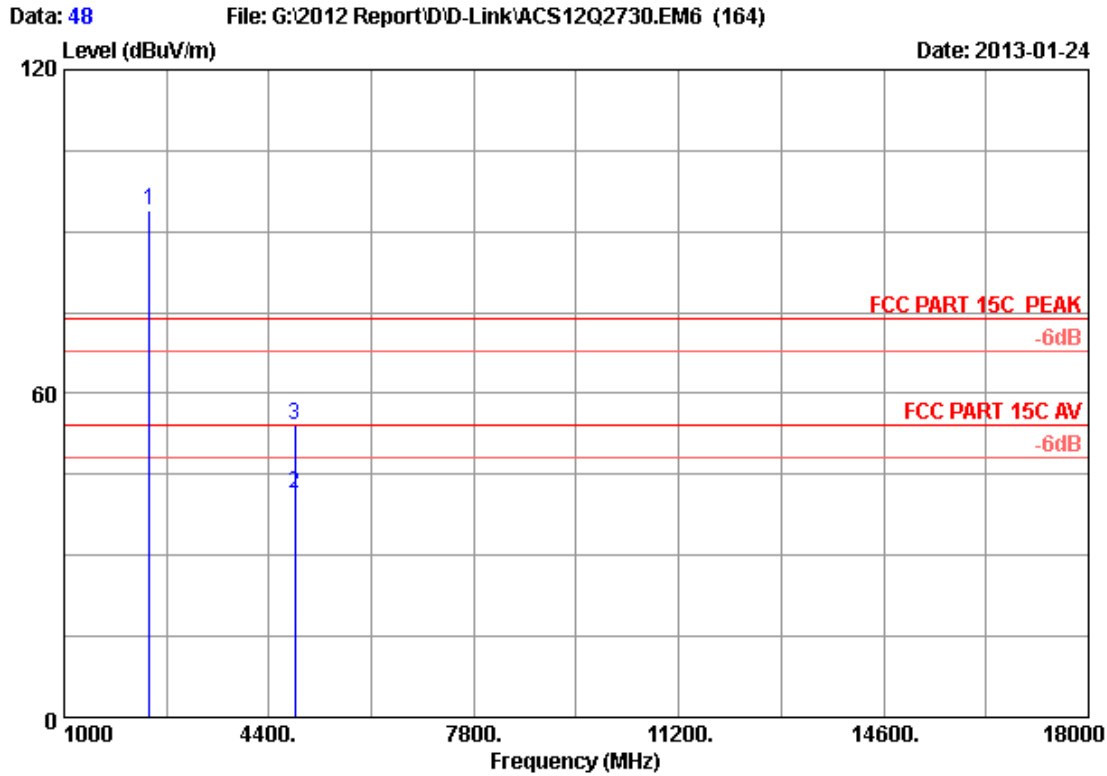
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2412.000	26.84	6.04	35.92	104.95	101.91	74.00	-27.91	Peak
2	4824.000	32.51	8.69	35.71	36.80	42.29	54.00	11.71	Average
3	4824.000	32.51	8.69	35.71	50.24	55.73	74.00	18.27	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.



Site no. : 3m Chamber Data no. : 47
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 20°C/49% Engineer : Tony_yan
EUT : WIRELESS N 150 USB ADAPTER
Power supply : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11nHT20 CH1 2412MHz
M/N : DWA-125
:

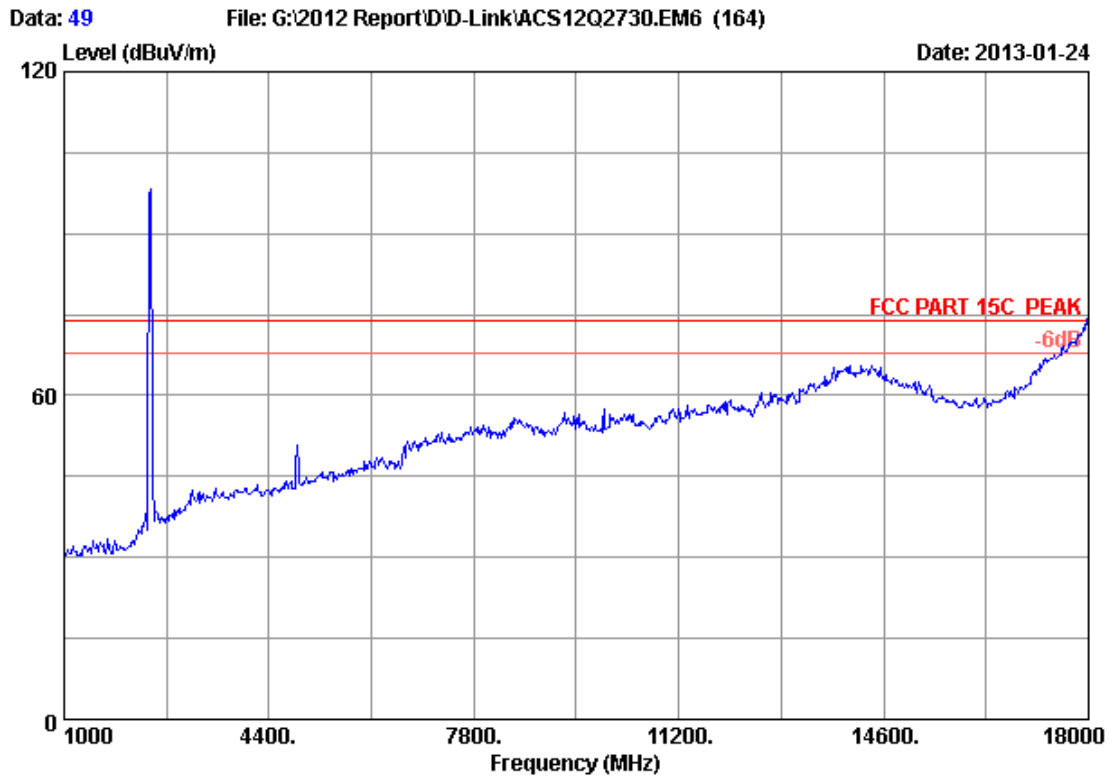


Site no. : 3m Chamber Data no. : 48
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH1 2412MHz
 M/N : DWA-125
 :

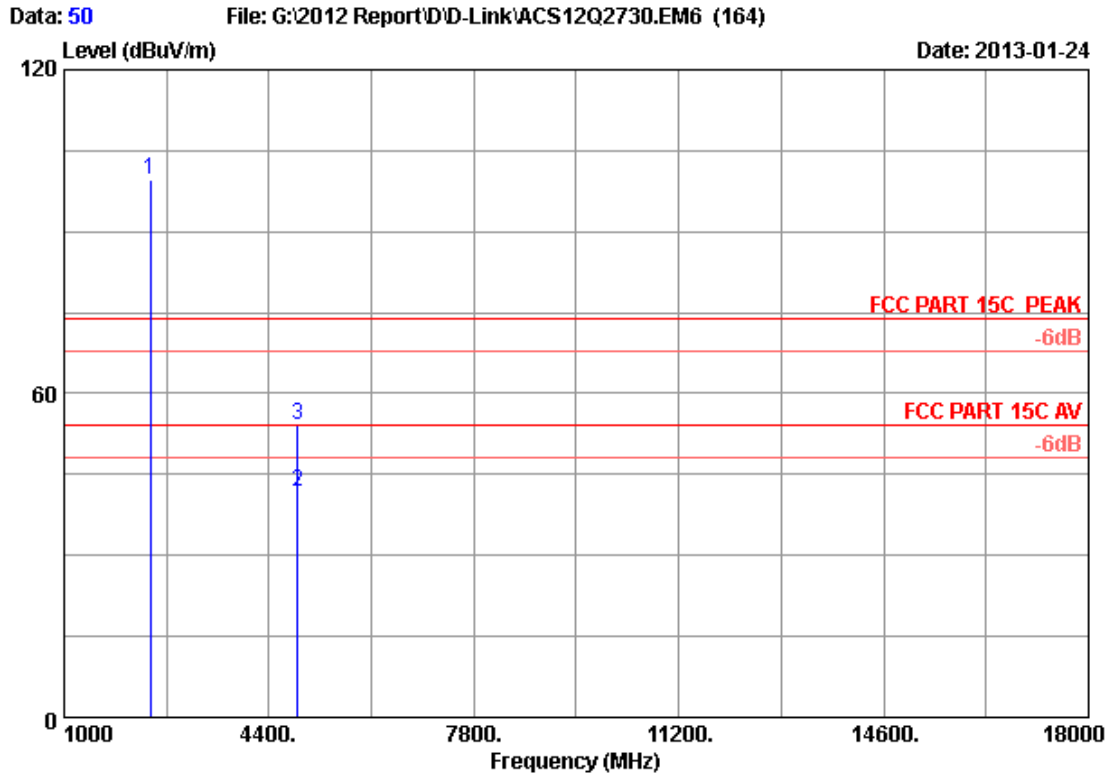
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.000	26.84	6.04	35.92	96.88	93.84	74.00	-19.84	Peak
2	4824.000	32.51	8.69	35.71	36.01	41.50	54.00	12.50	Average
3	4824.000	32.51	8.69	35.71	48.68	54.17	74.00	19.83	Peak

Remarks:

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



Site no. : 3m Chamber Data no. : 49
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 20°C/49% Engineer : Tony_yan
EUT : WIRELESS N 150 USB ADAPTER
Power supply : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11nHT20 CH6 2437MHz
M/N : DWA-125
:

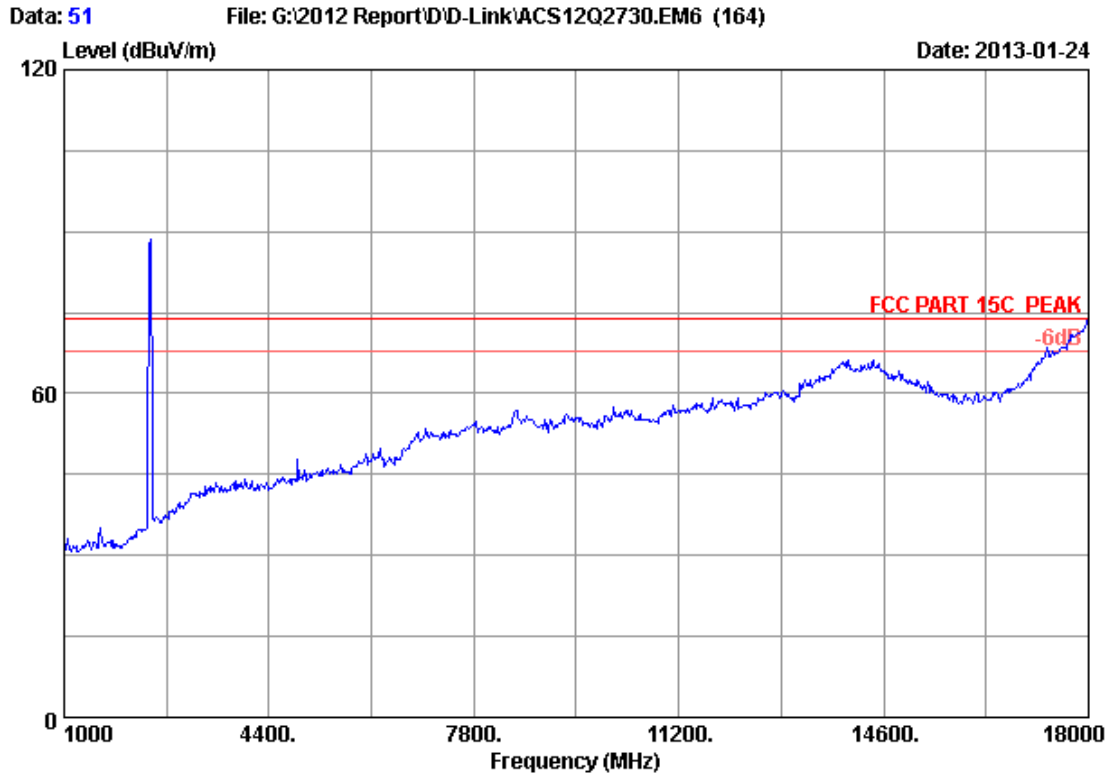


Site no. : 3m Chamber Data no. : 50
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH6 2437MHz
 M/N : DWA-125
 :

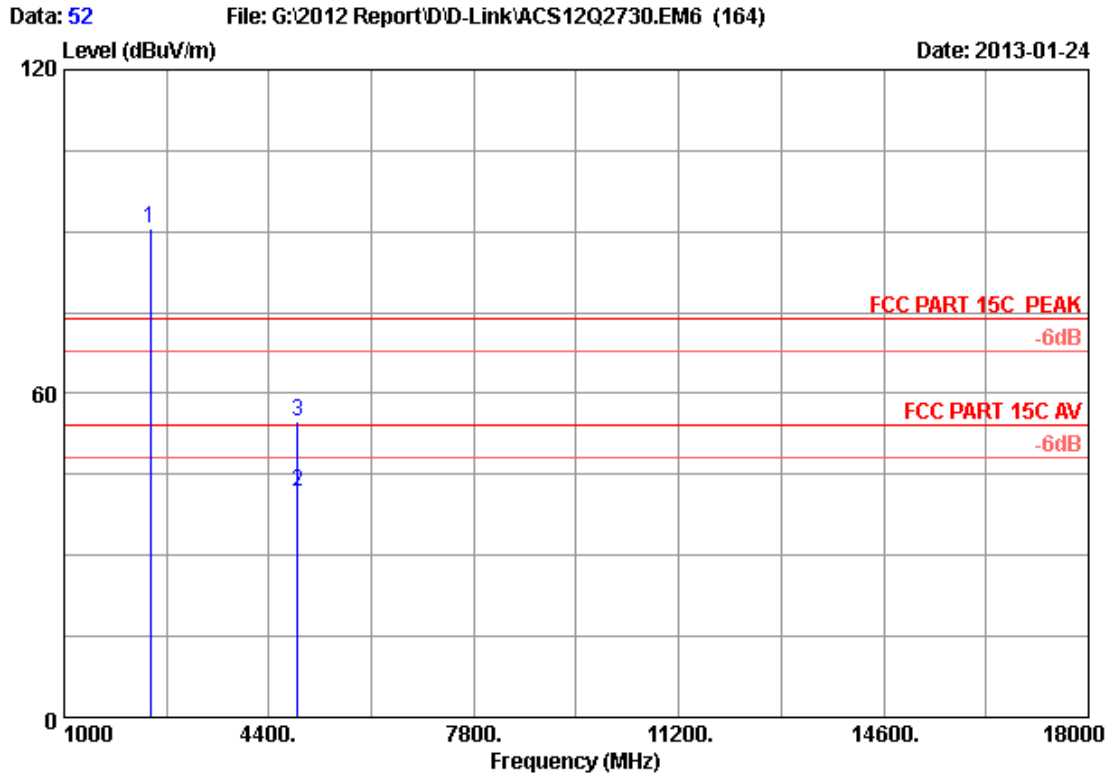
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2437.000	27.00	6.08	35.92	102.48	99.64	74.00	-25.64	Peak
2	4874.000	32.62	8.73	35.69	36.10	41.76	54.00	12.24	Average
3	4874.000	32.62	8.73	35.69	48.33	53.99	74.00	20.01	Peak

Remarks:

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



Site no. : 3m Chamber Data no. : 51
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 20°C/49% Engineer : Tony_yan
EUT : WIRELESS N 150 USB ADAPTER
Power supply : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11nHT20 CH6 2437MHz
M/N : DWA-125
:

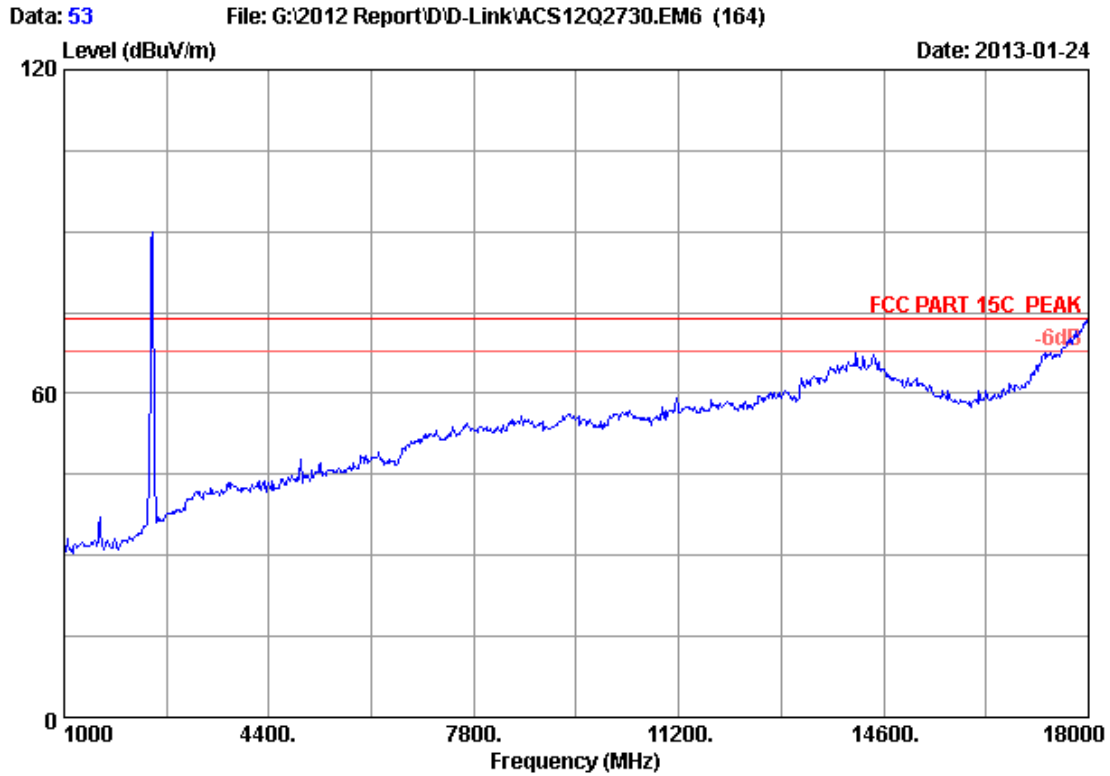


Site no. : 3m Chamber Data no. : 52
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH6 2437MHz
 M/N : DWA-125
 :

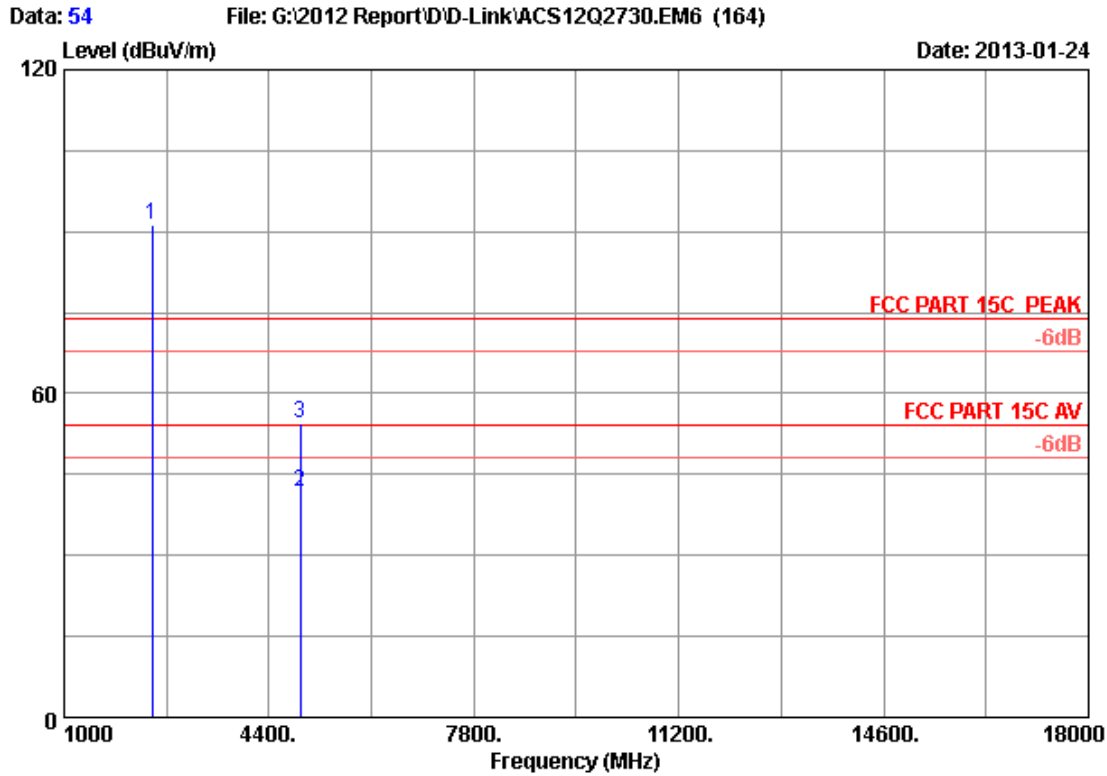
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2437.000	27.00	6.08	35.92	93.53	90.69	74.00	-16.69	Peak
2	4874.000	32.62	8.73	35.69	35.97	41.63	54.00	12.37	Average
3	4874.000	32.62	8.73	35.69	49.00	54.66	74.00	19.34	Peak

Remarks:

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



Site no. : 3m Chamber Data no. : 53
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 20°C/49% Engineer : Tony_yan
EUT : WIRELESS N 150 USB ADAPTER
Power supply : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11nHT20 CH11 2462MHz
M/N : DWA-125
:

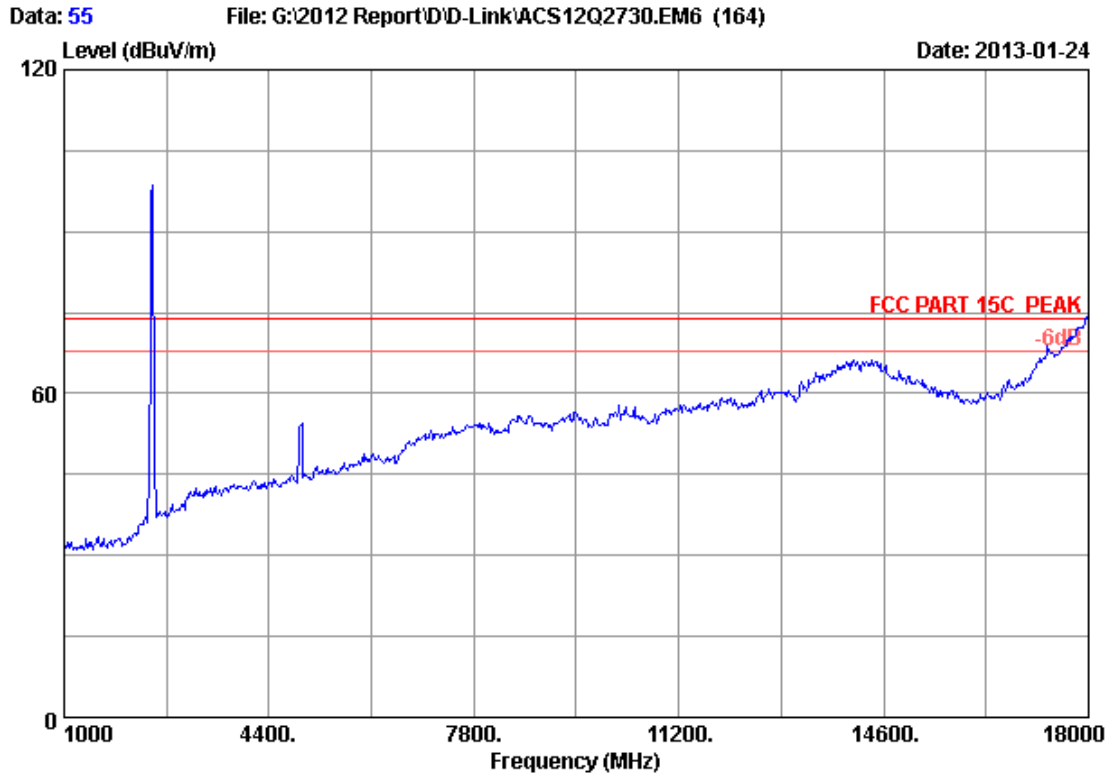


Site no. : 3m Chamber Data no. : 54
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH11 2462MHz
 M/N : DWA-125
 :

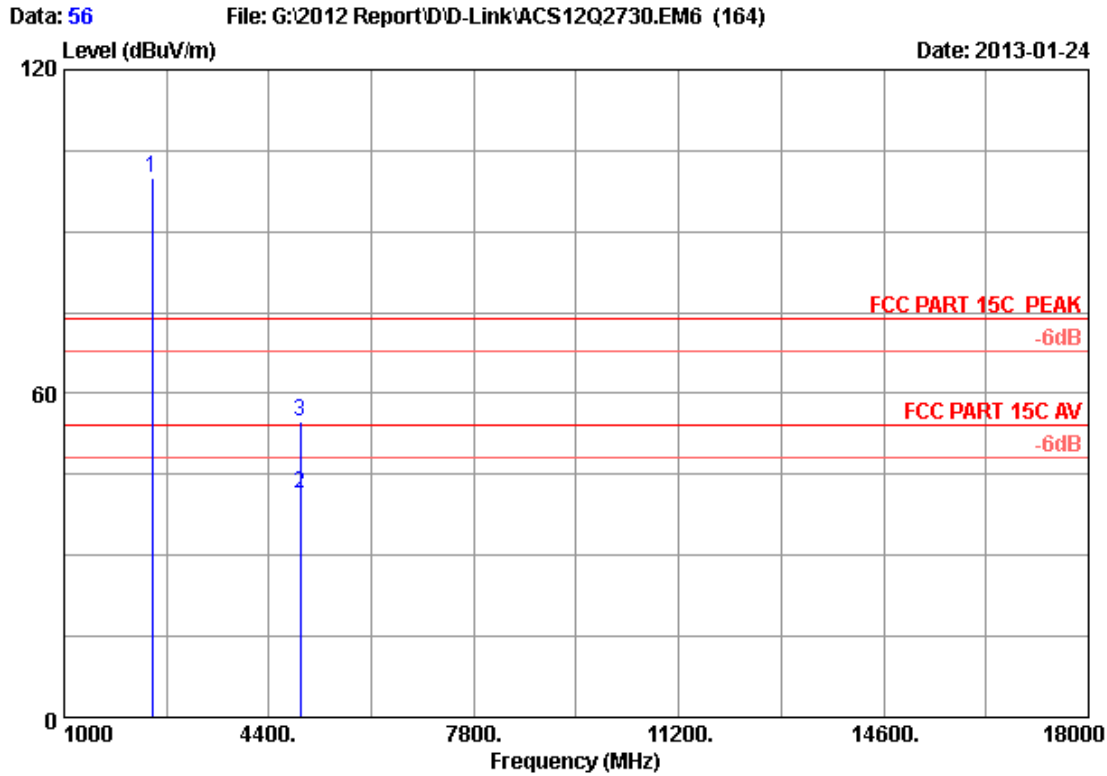
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2462.000	27.16	6.12	35.92	93.91	91.27	74.00	-17.27	Peak
2	4924.000	32.73	8.78	35.68	36.05	41.88	54.00	12.12	Average
3	4924.000	32.73	8.78	35.68	48.71	54.54	74.00	19.46	Peak

Remarks:

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



Site no. : 3m Chamber Data no. : 55
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 20°C/49% Engineer : Tony_yan
EUT : WIRELESS N 150 USB ADAPTER
Power supply : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11nHT20 CH11 2462MHz
M/N : DWA-125
:

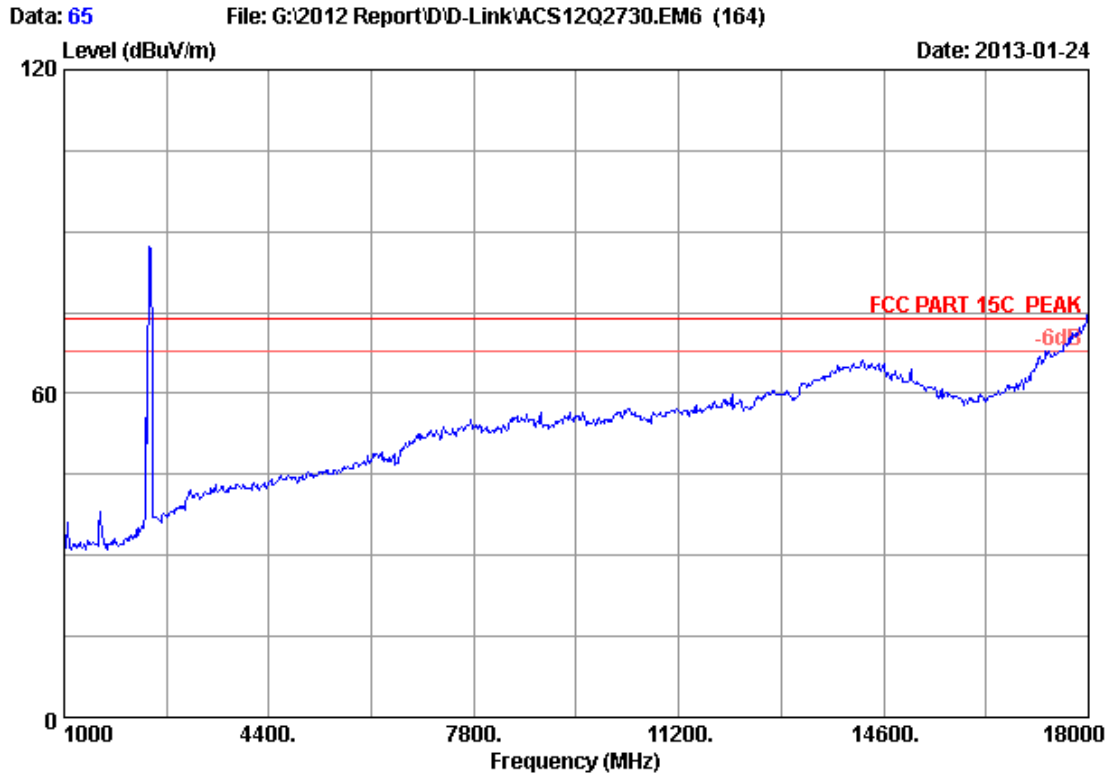


Site no. : 3m Chamber Data no. : 56
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH11 2462MHz
 M/N : DWA-125
 :

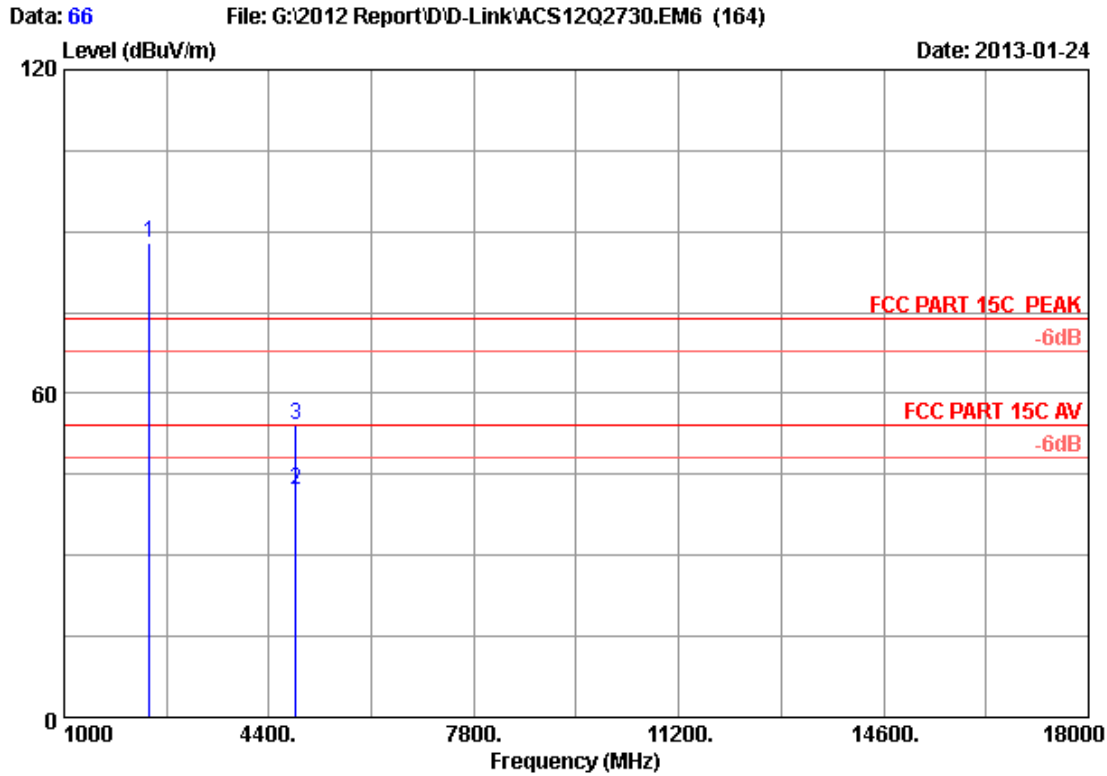
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2462.000	27.16	6.12	35.92	102.52	99.88	74.00	-25.88	Peak
2	4924.000	32.73	8.78	35.68	35.65	41.48	54.00	12.52	Average
3	4924.000	32.73	8.78	35.68	49.03	54.86	74.00	19.14	Peak

Remarks:

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



Site no. : 3m Chamber Data no. : 65
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 20°C/49% Engineer : Tony_yan
EUT : WIRELESS N 150 USB ADAPTER
Power supply : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11nHT40 CH1 2422MHz
M/N : DWA-125
:

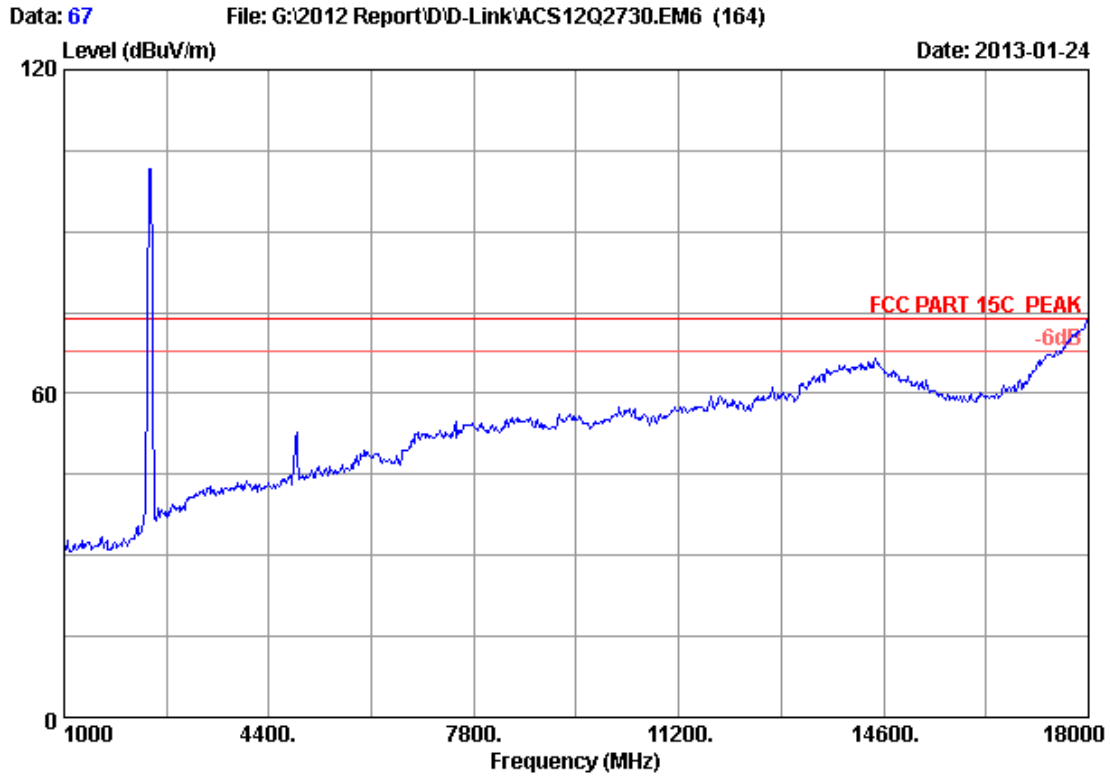


Site no. : 3m Chamber Data no. : 66
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH1 2422MHz
 M/N : DWA-125
 :

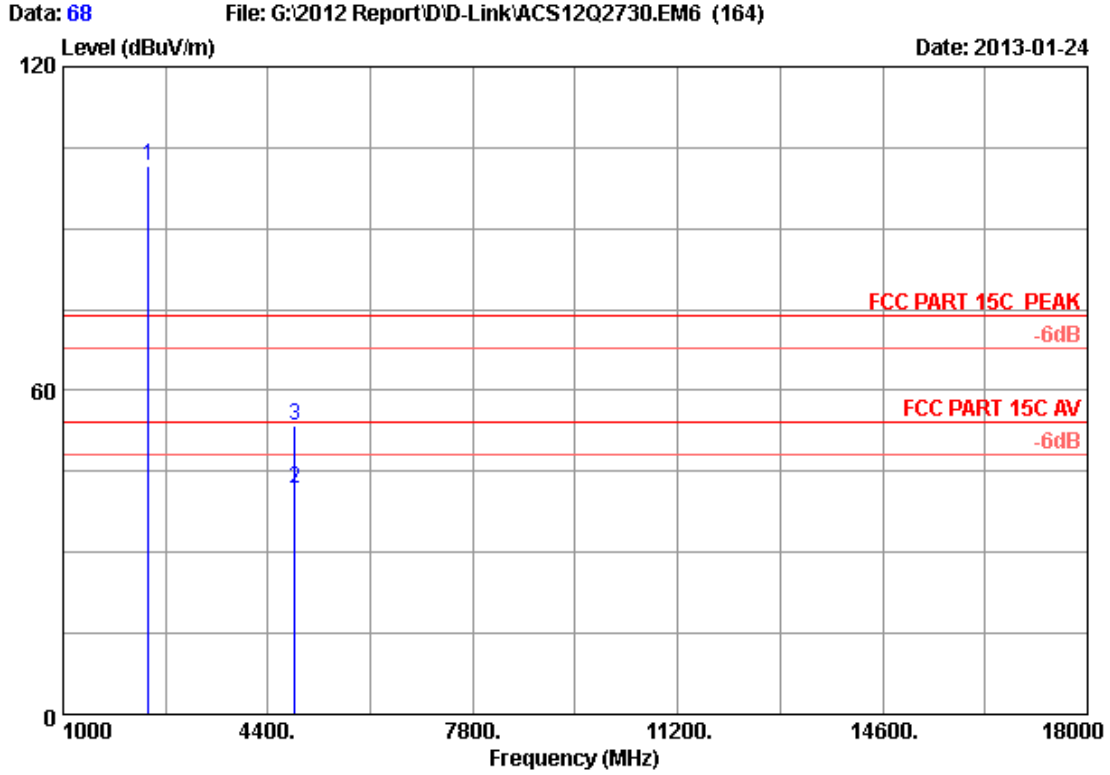
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2422.000	26.90	6.05	35.92	90.86	87.89	74.00	-13.89	Peak
2	4844.000	32.56	8.70	35.70	36.55	42.11	54.00	11.89	Average
3	4844.000	32.56	8.70	35.70	48.75	54.31	74.00	19.69	Peak

Remarks:

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



Site no. : 3m Chamber Data no. : 67
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 20°C/49% Engineer : Tony_yan
EUT : WIRELESS N 150 USB ADAPTER
Power supply : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11nHT40 CH1 2422MHz
M/N : DWA-125
:

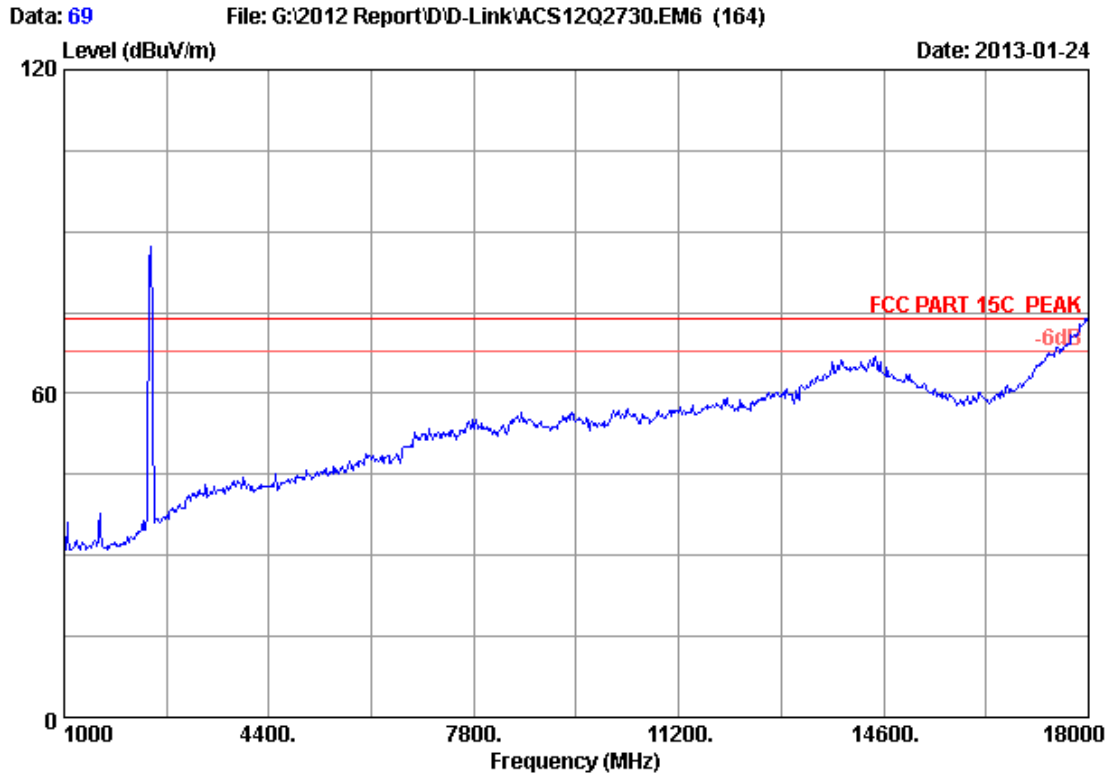


Site no. : 3m Chamber Data no. : 68
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH1 2422MHz
 M/N : DWA-125
 :

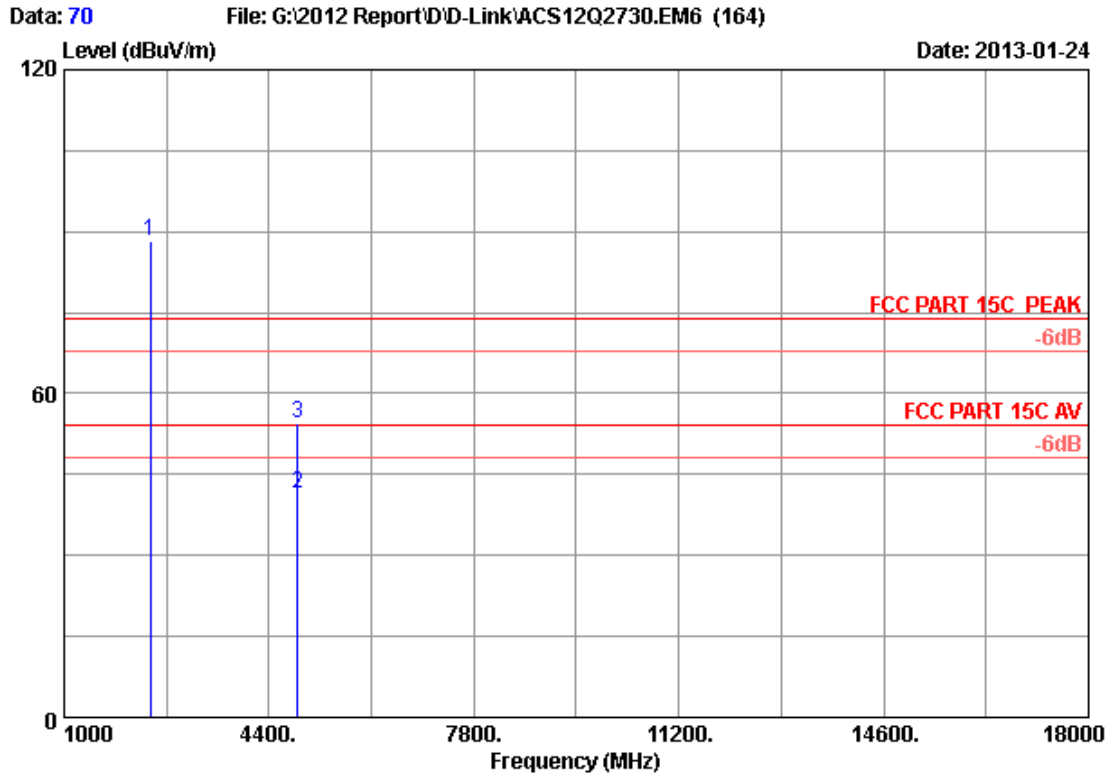
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2422.000	26.90	6.05	35.92	104.43	101.46	74.00	-27.46	Peak
2	4844.000	32.56	8.70	35.70	36.17	41.73	54.00	12.27	Average
3	4844.000	32.56	8.70	35.70	48.01	53.57	74.00	20.43	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.



Site no. : 3m Chamber Data no. : 69
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 20°C/49% Engineer : Tony_yan
EUT : WIRELESS N 150 USB ADAPTER
Power supply : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11nHT40 CH4 2437MHz
M/N : DWA-125
:

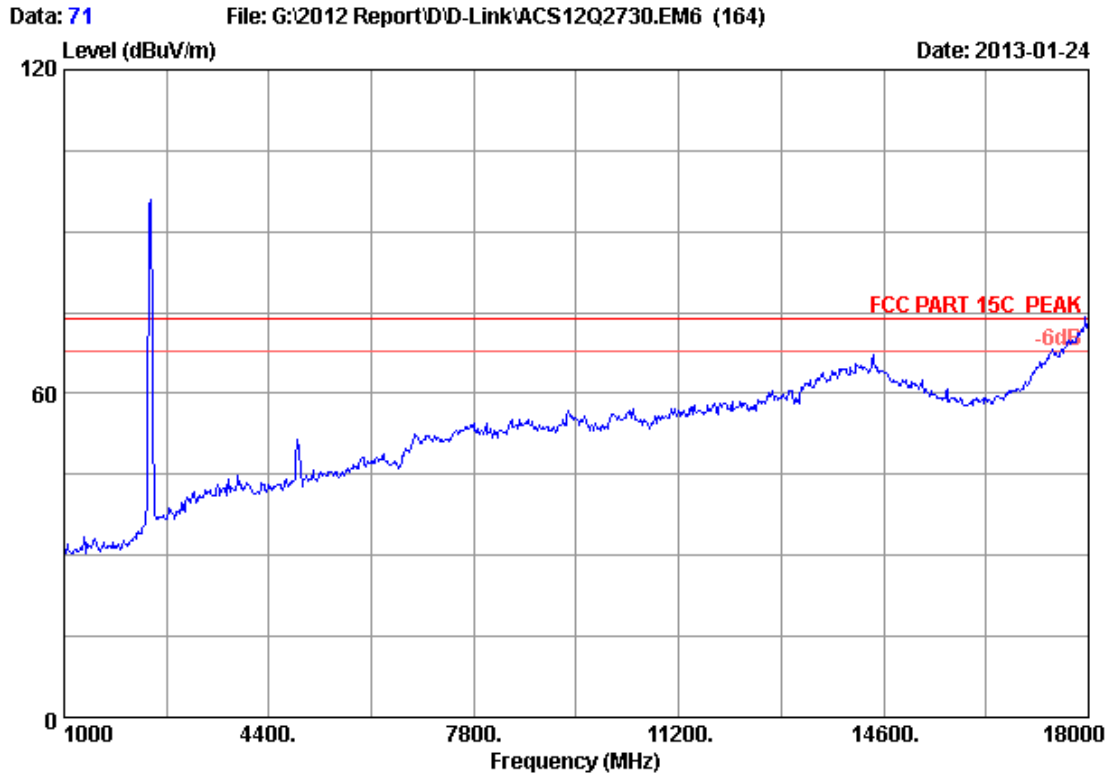


Site no. : 3m Chamber Data no. : 70
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH4 2437MHz
 M/N : DWA-125
 :

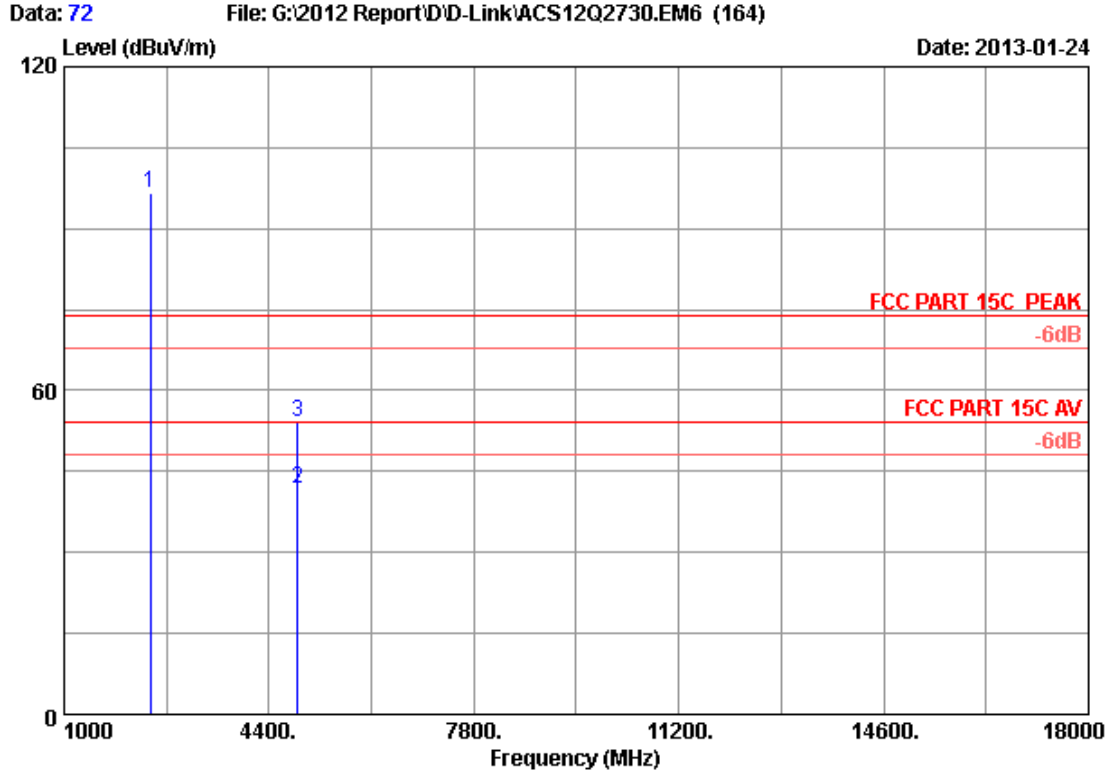
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2437.000	27.00	6.08	35.92	90.98	88.14	74.00	-14.14	Peak
2	4874.000	32.62	8.73	35.69	35.84	41.50	54.00	12.50	Average
3	4874.000	32.62	8.73	35.69	48.66	54.32	74.00	19.68	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.



Site no. : 3m Chamber Data no. : 71
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 20°C/49% Engineer : Tony_yan
EUT : WIRELESS N 150 USB ADAPTER
Power supply : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11nHT40 CH4 2437MHz
M/N : DWA-125
:

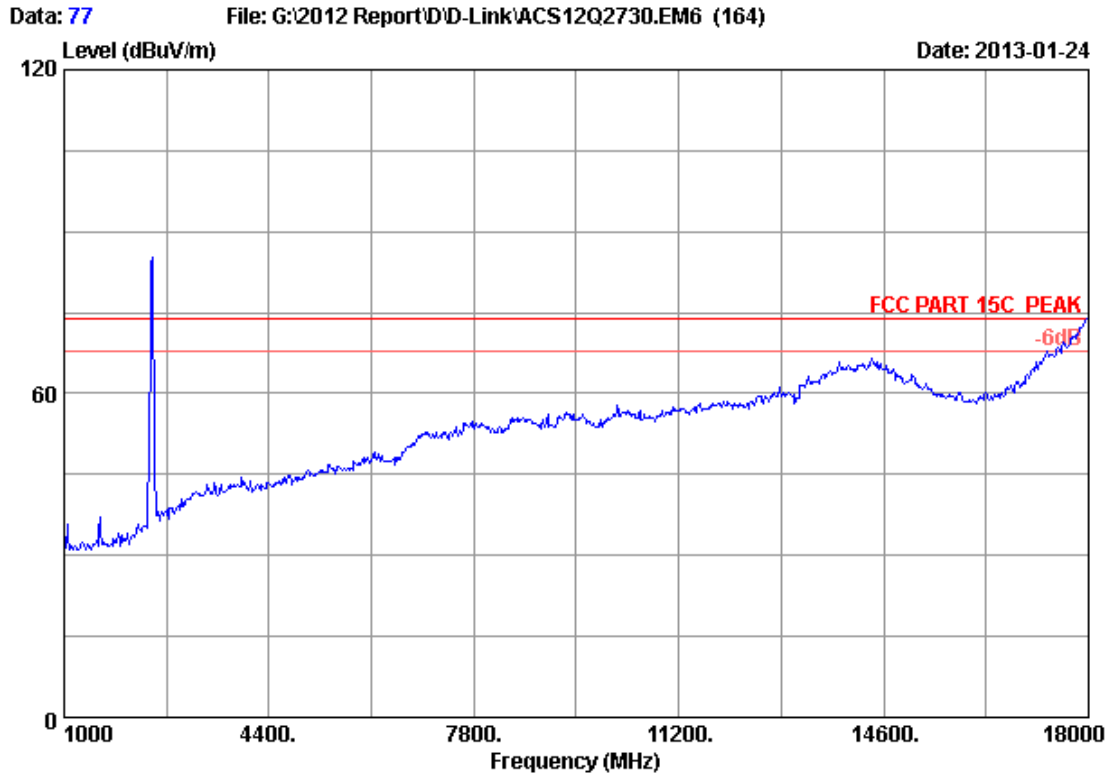


Site no. : 3m Chamber Data no. : 72
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH4 2437MHz
 M/N : DWA-125
 :

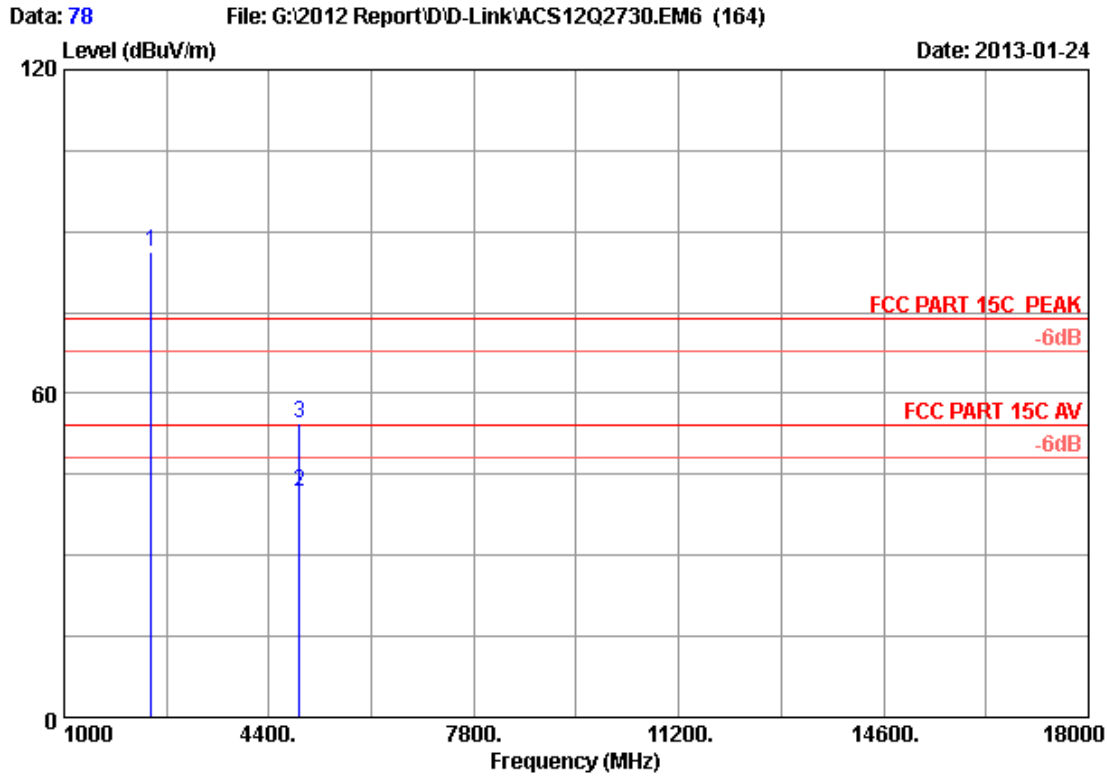
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2437.000	27.00	6.08	35.92	99.58	96.74	74.00	-22.74	Peak
2	4874.000	32.62	8.73	35.69	36.12	41.78	54.00	12.22	Average
3	4874.000	32.62	8.73	35.69	48.45	54.11	74.00	19.89	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.



Site no. : 3m Chamber Data no. : 77
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 20°C/49% Engineer : Tony_yan
EUT : WIRELESS N 150 USB ADAPTER
Power supply : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11nHT40 CH7 2452MHz
M/N : DWA-125
:

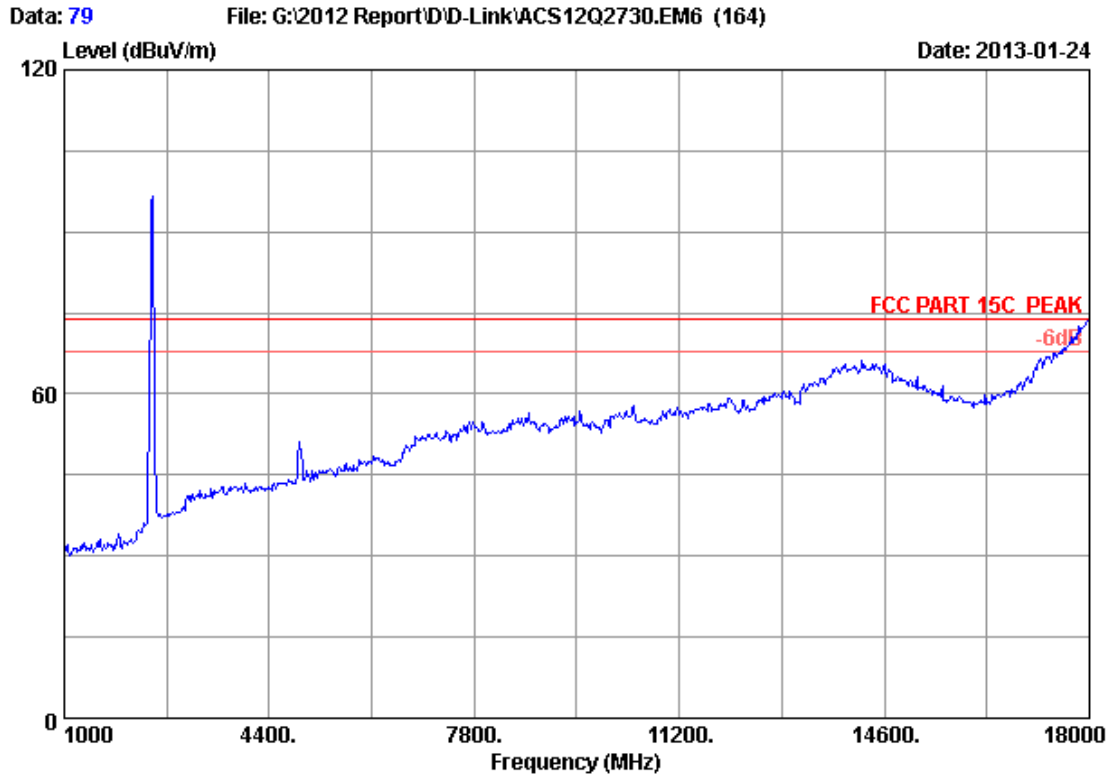


Site no. : 3m Chamber Data no. : 78
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH7 2452MHz
 M/N : DWA-125
 :

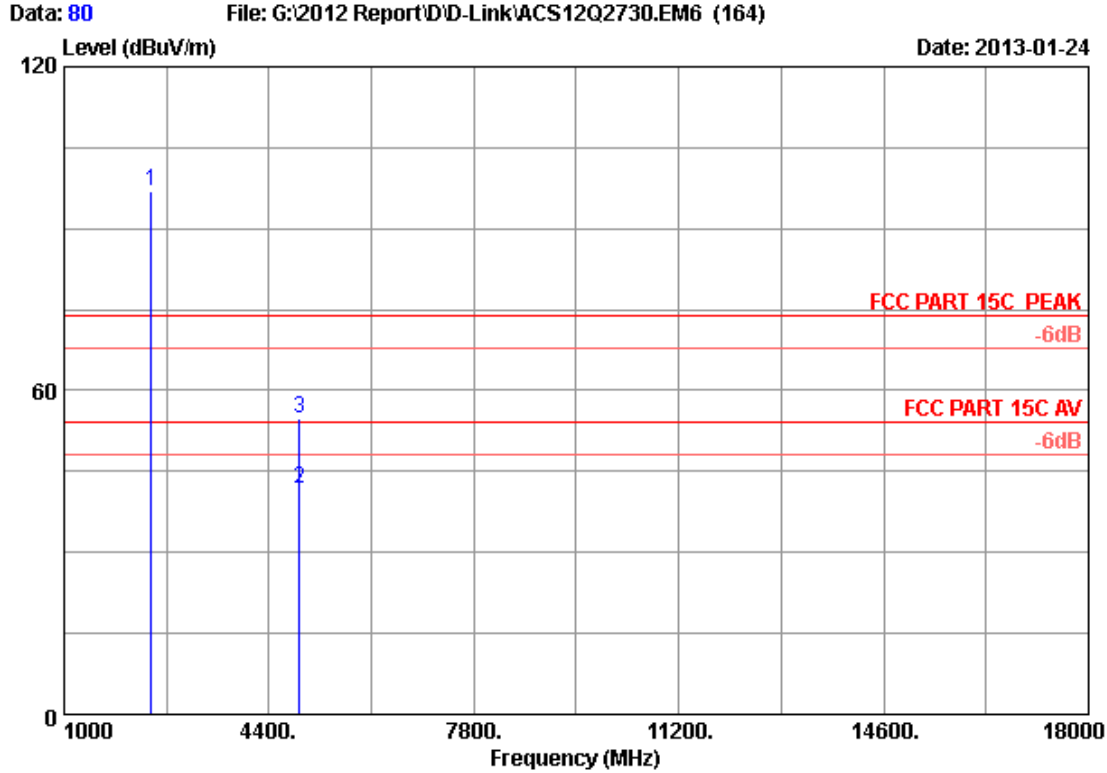
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2452.000	27.09	6.11	35.92	89.09	86.37	74.00	-12.37	Peak
2	4904.000	32.69	8.76	35.68	36.08	41.85	54.00	12.15	Average
3	4904.000	32.69	8.76	35.68	48.63	54.40	74.00	19.60	Peak

Remarks:

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



Site no. : 3m Chamber Data no. : 79
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 20°C/49% Engineer : Tony_yan
EUT : WIRELESS N 150 USB ADAPTER
Power supply : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11nHT40 CH7 2452MHz
M/N : DWA-125
:



Site no. : 3m Chamber Data no. : 80
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH7 2452MHz
 M/N : DWA-125
 :

	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	2452.000	27.09	6.11	35.92	99.67	96.95	74.00	-22.95	Peak
2	4904.000	32.69	8.76	35.68	36.17	41.94	54.00	12.06	Average
3	4904.000	32.69	8.76	35.68	49.06	54.83	74.00	19.17	Peak

Remarks:

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

5. 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.08,12	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08,12	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08,12	1Year

5.2. Limit

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

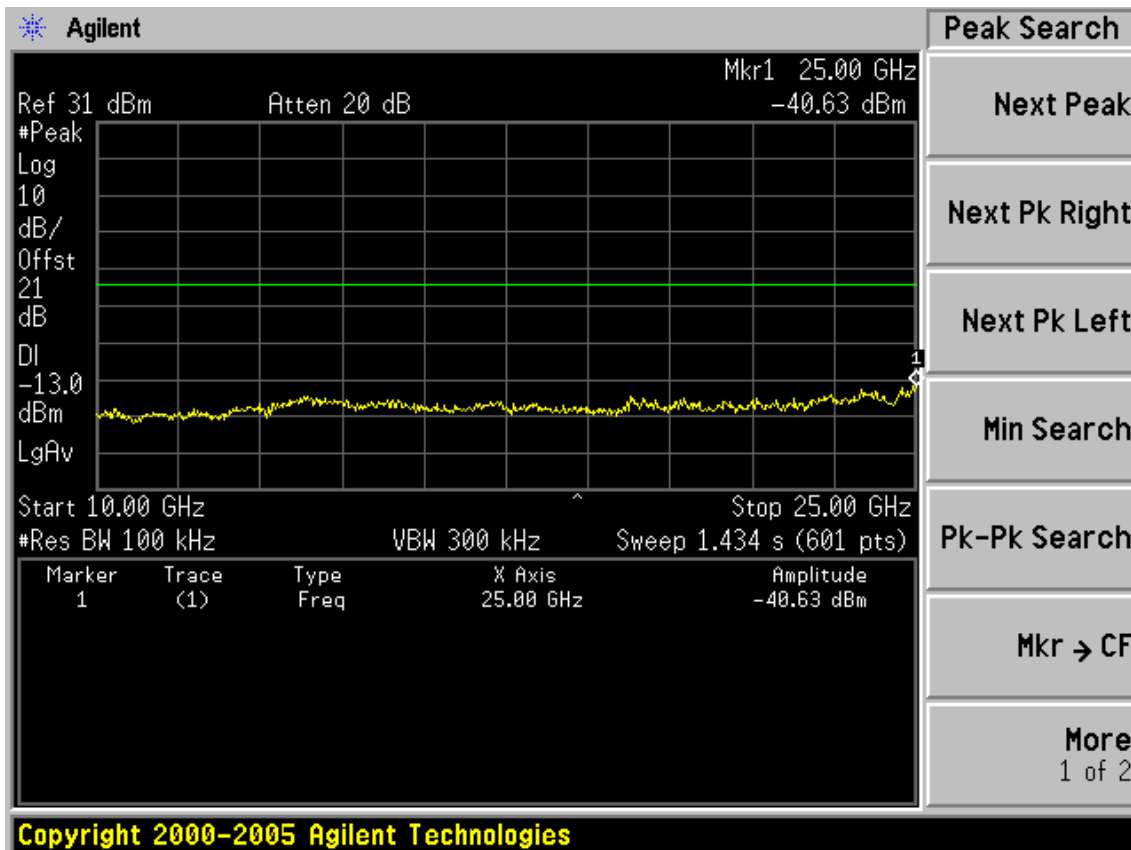
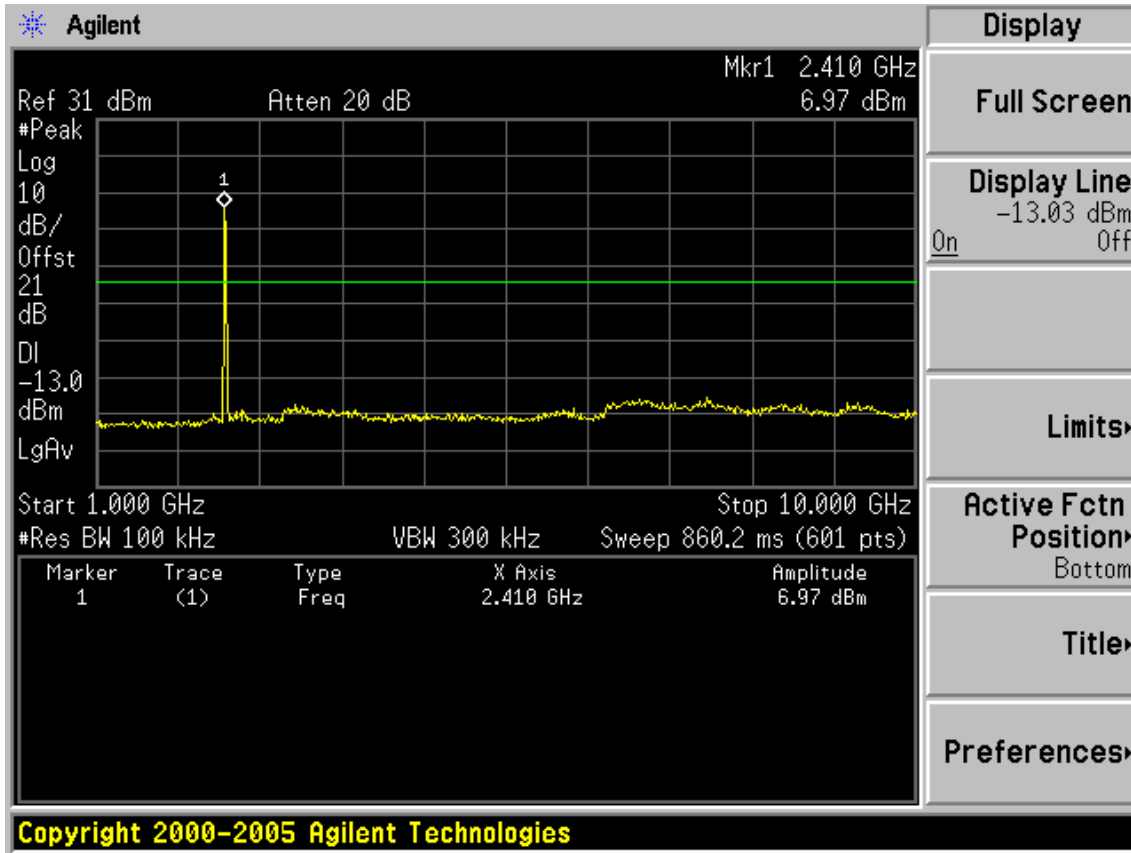
5.3. Test Procedure

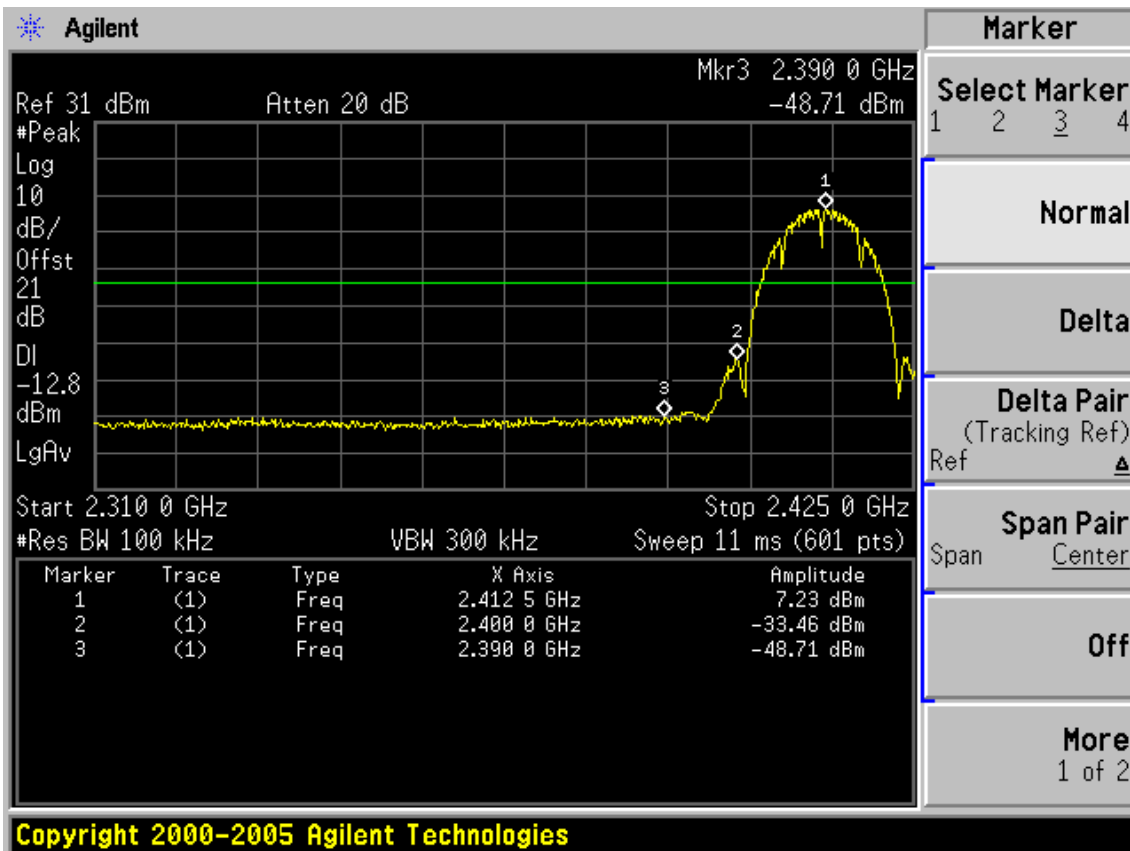
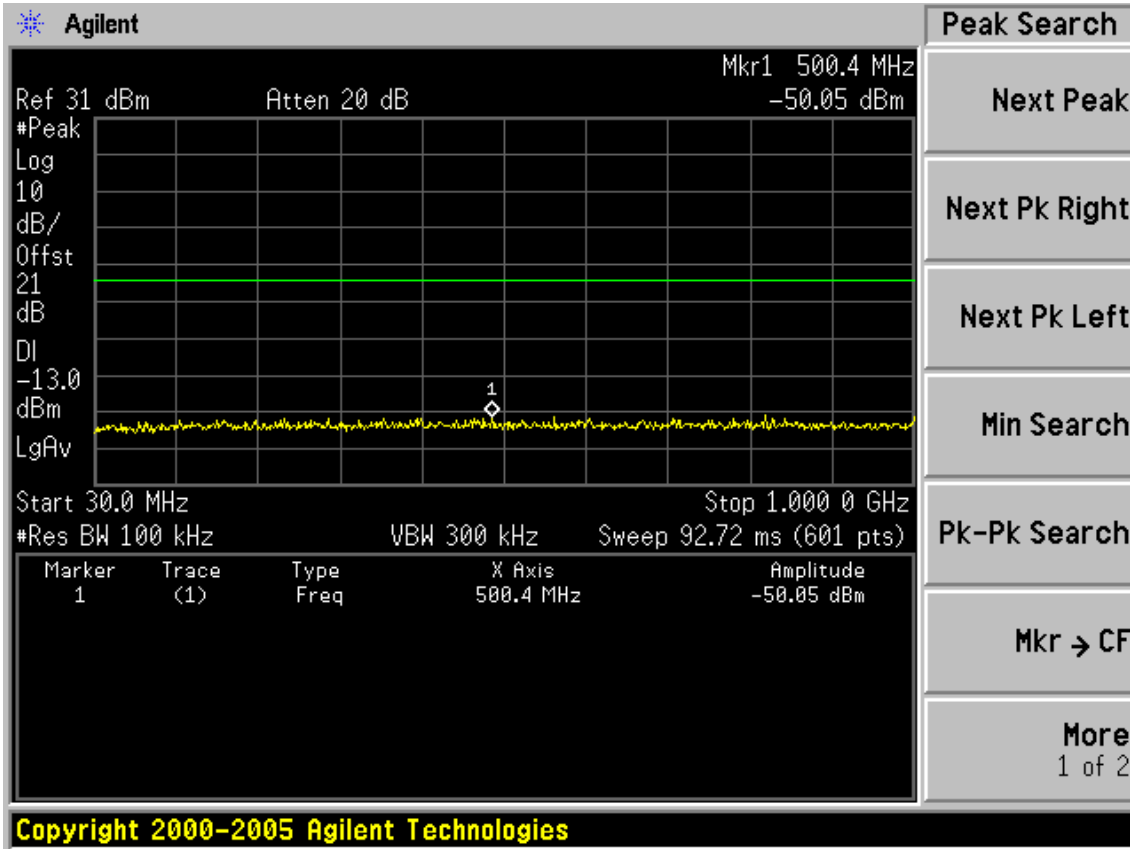
The transmitter output was connected to a spectrum analyzer, The resolution bandwidth is set to 100 kHz, The video bandwidth is set to 300 kHz and measure all the emissions detected.

5.4. Test result

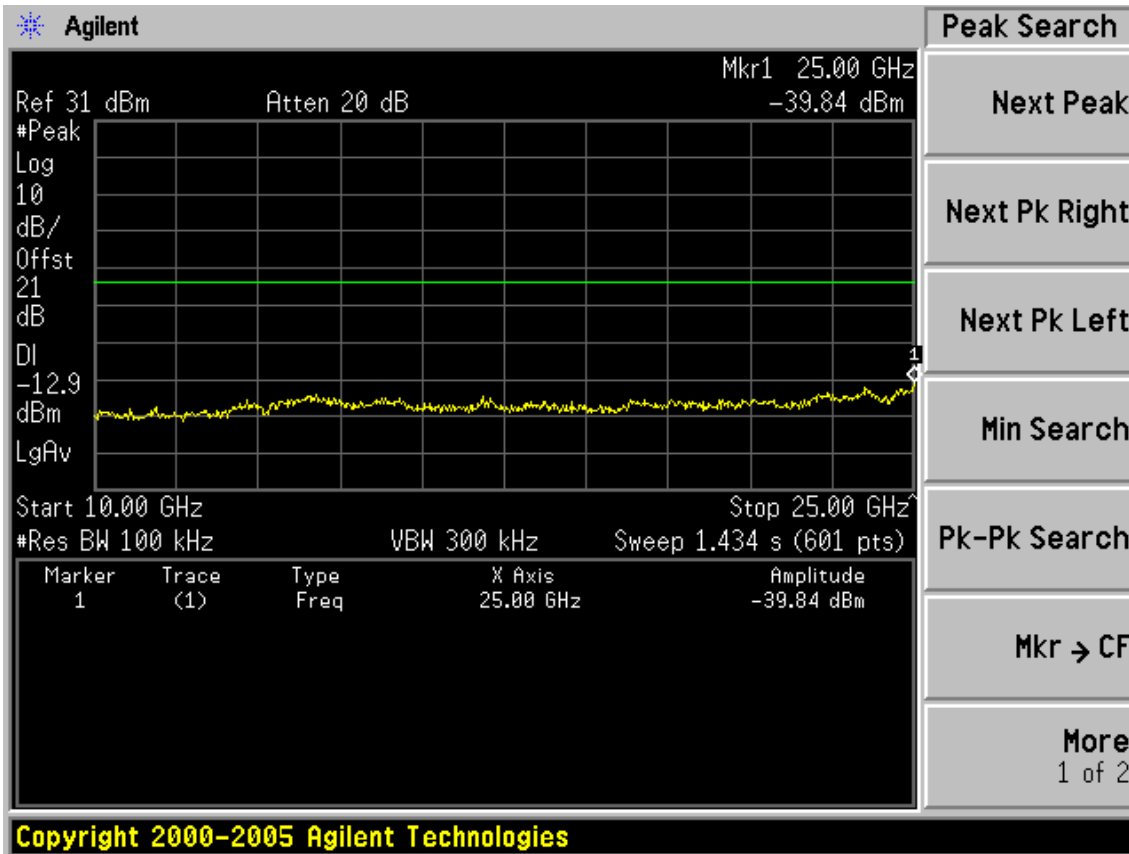
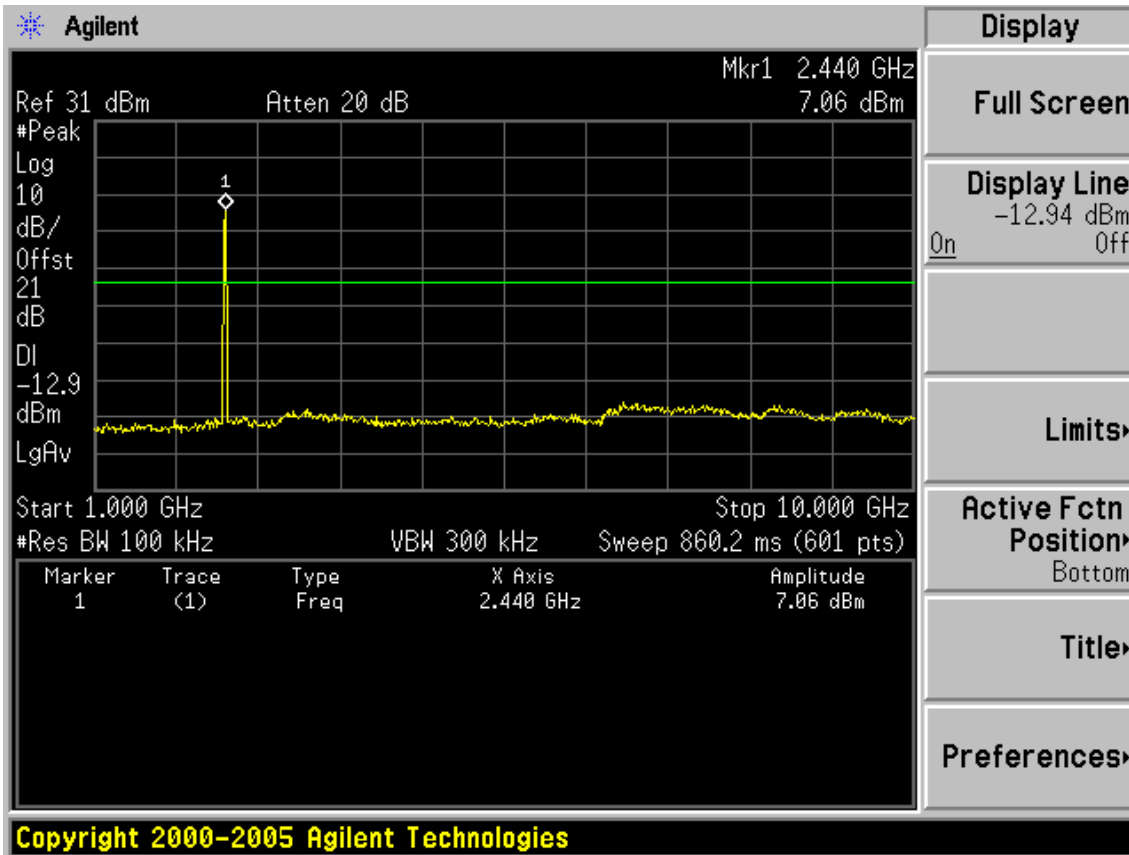
PASS (The testing data was attached in the next pages.)

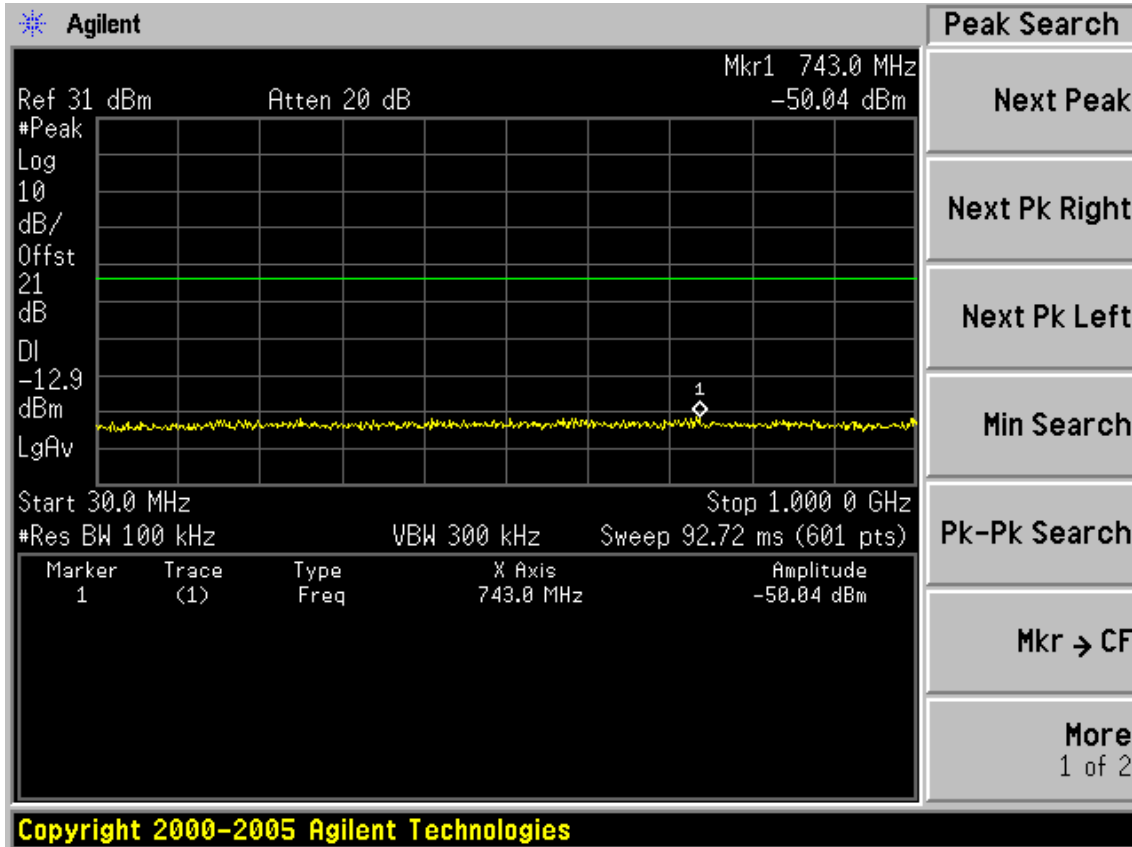
Test Mode: IEEE 802.11b TX
 Test CH1: 2412MHz



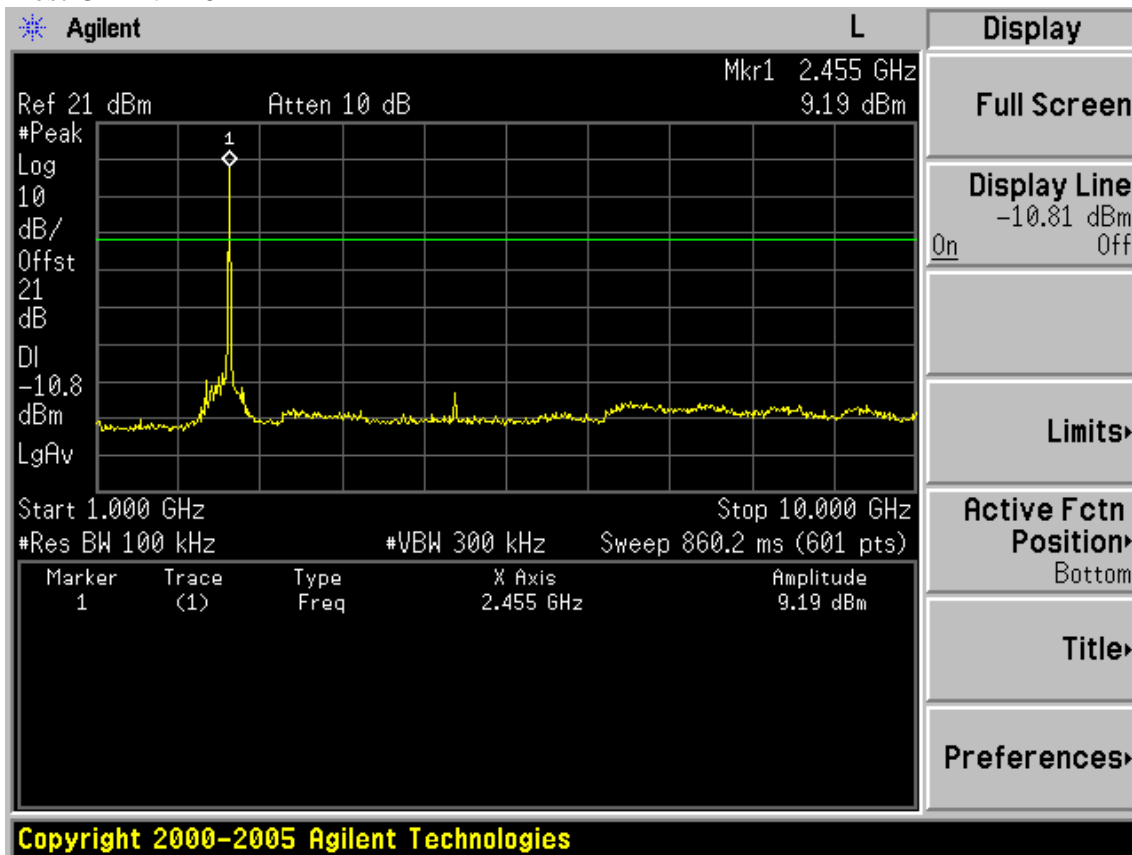


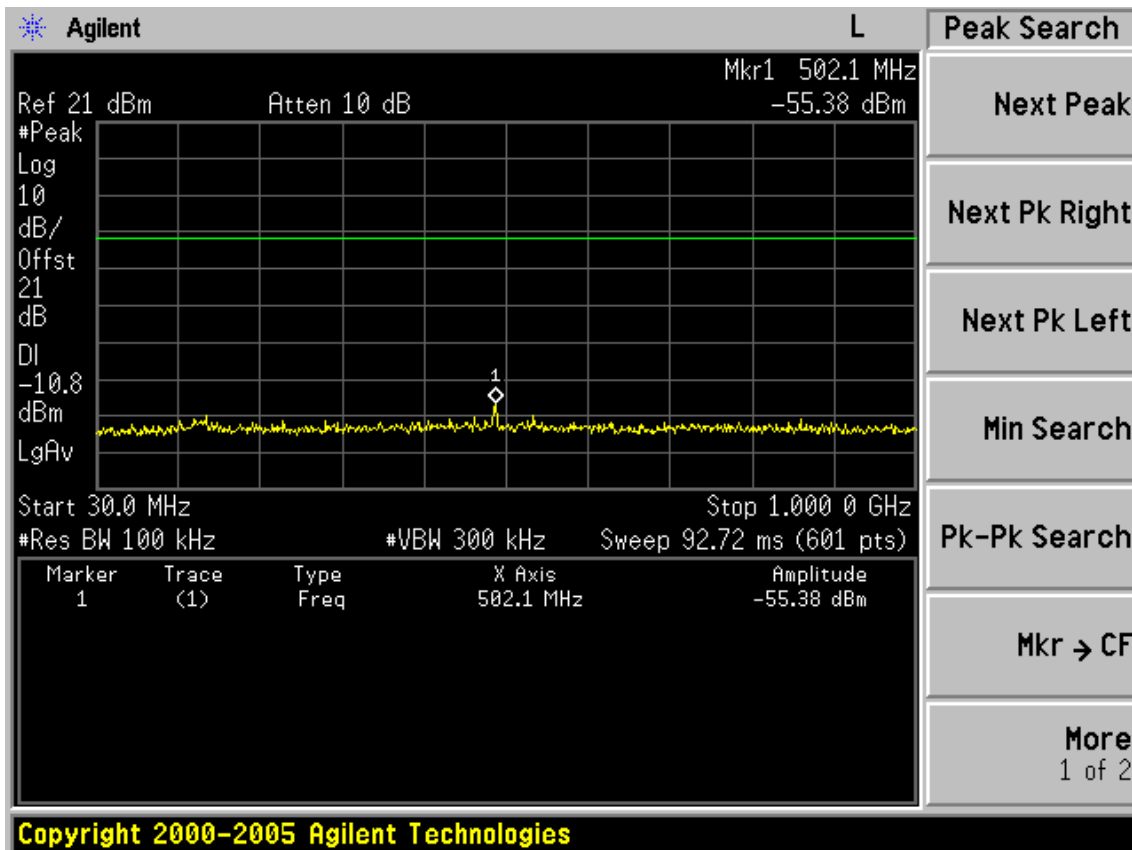
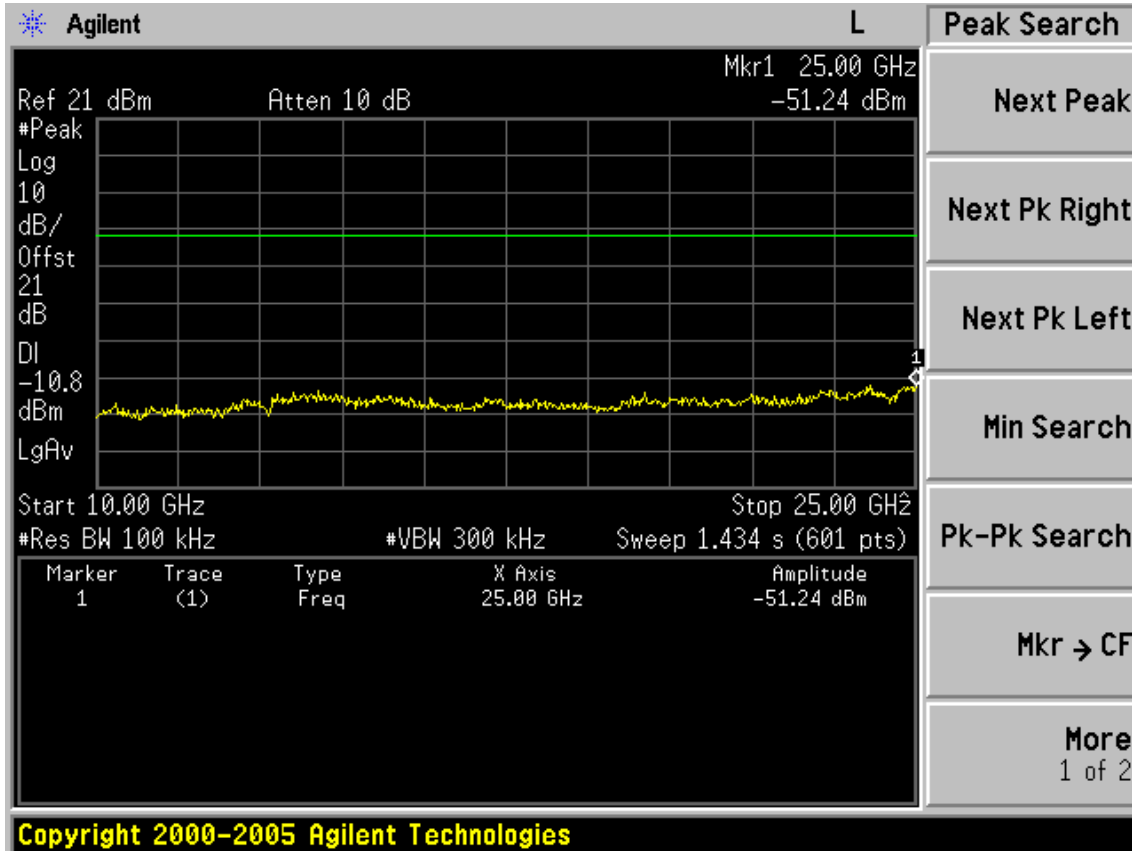
Test CH6: 2437MHz

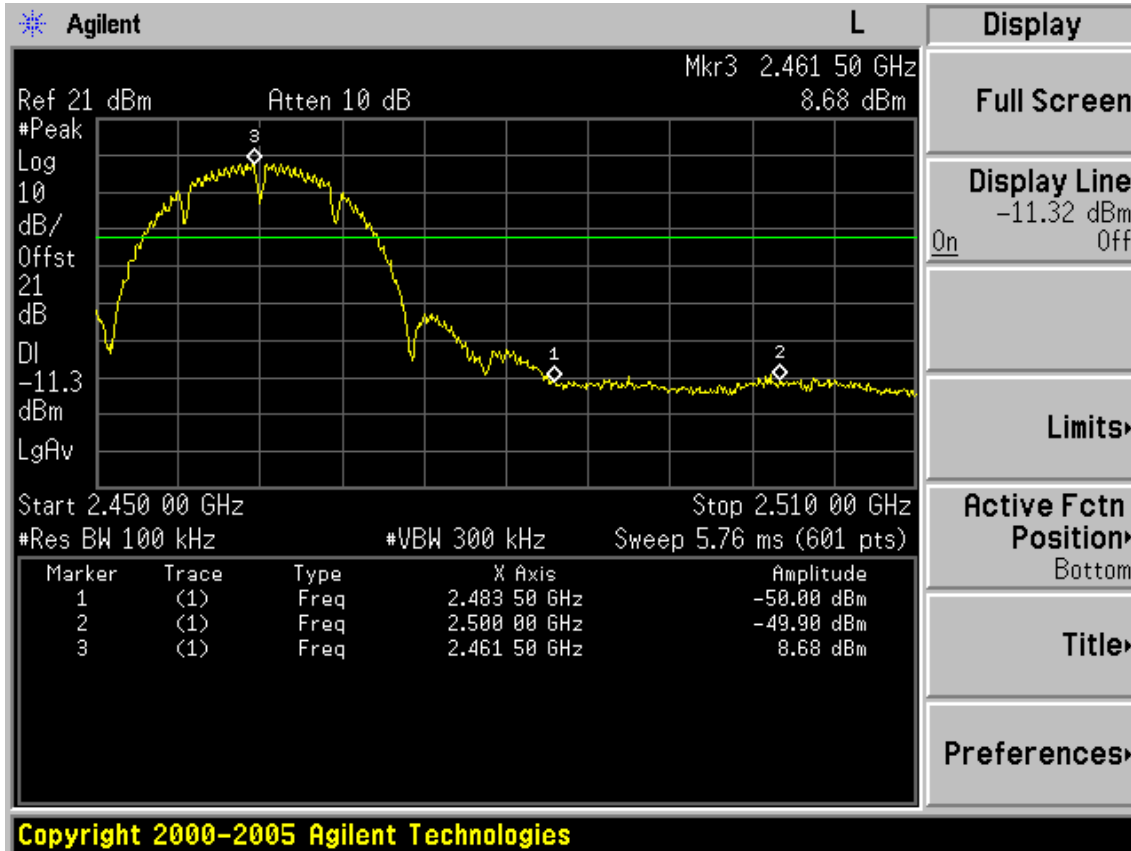




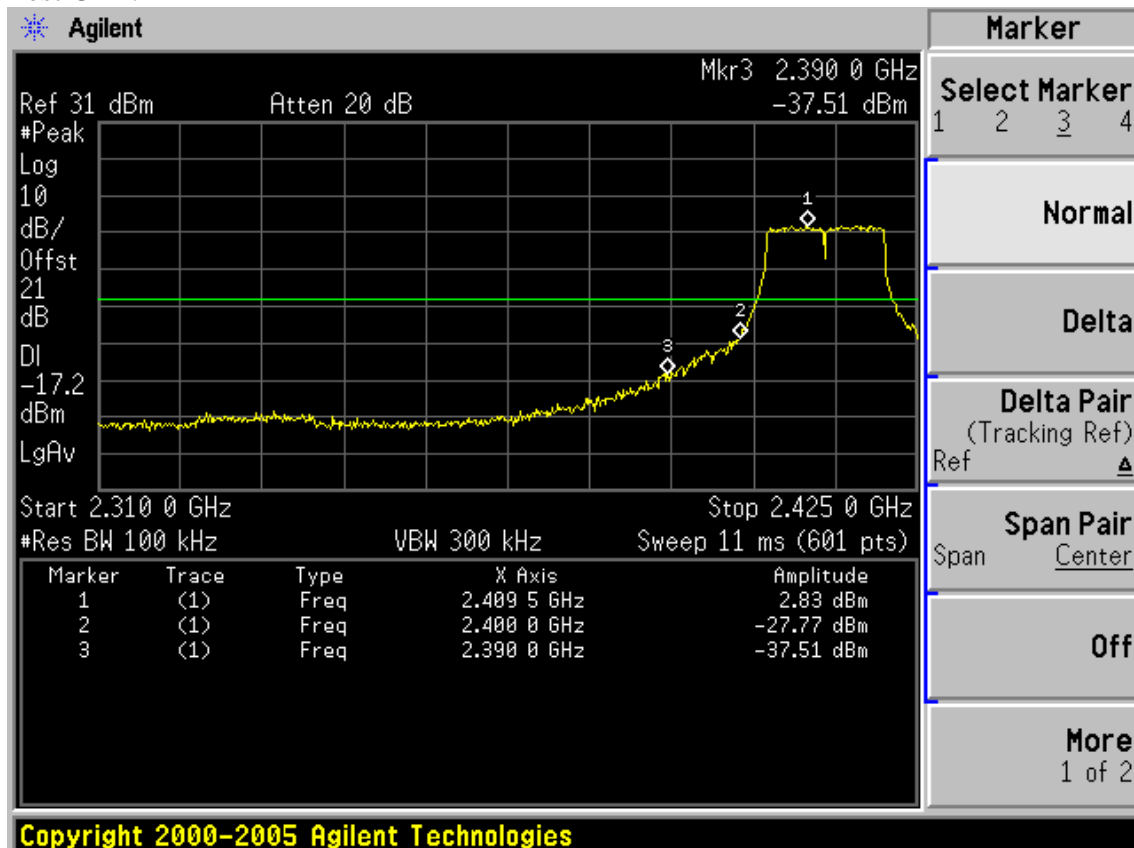
Test CH11: 2462MHz

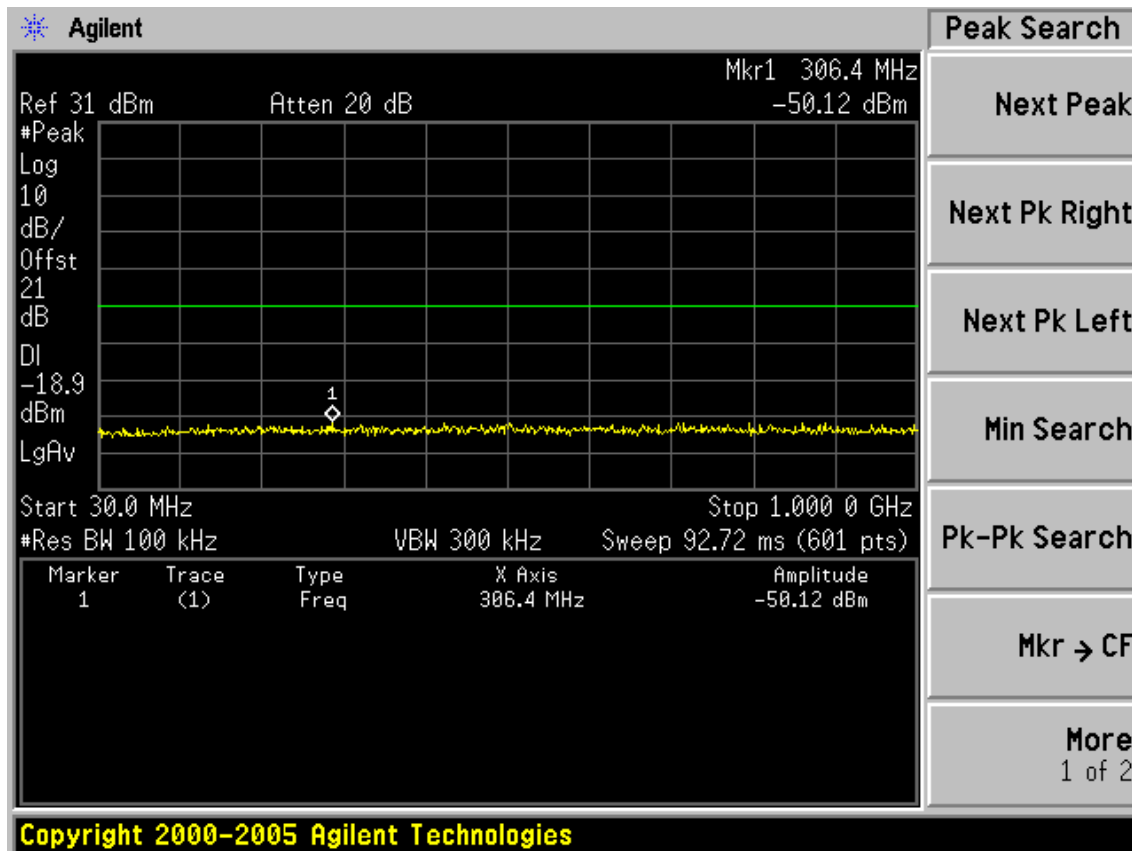
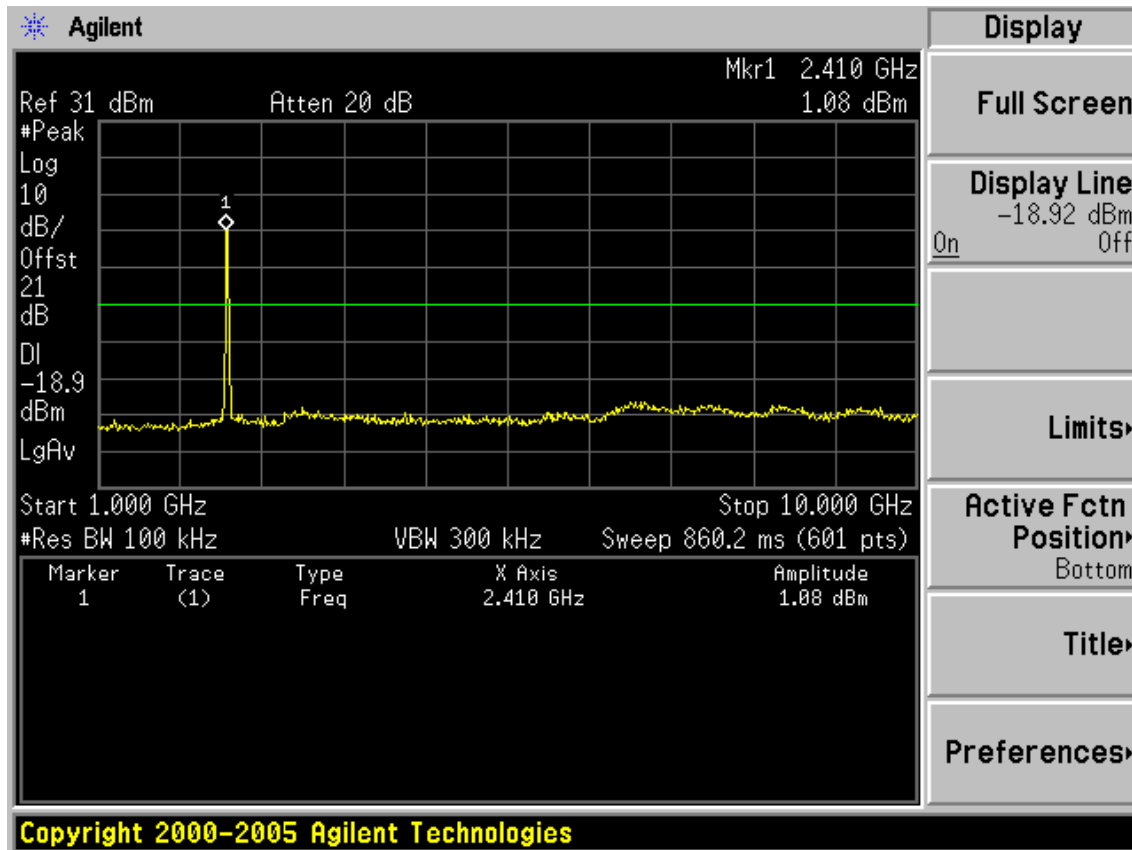


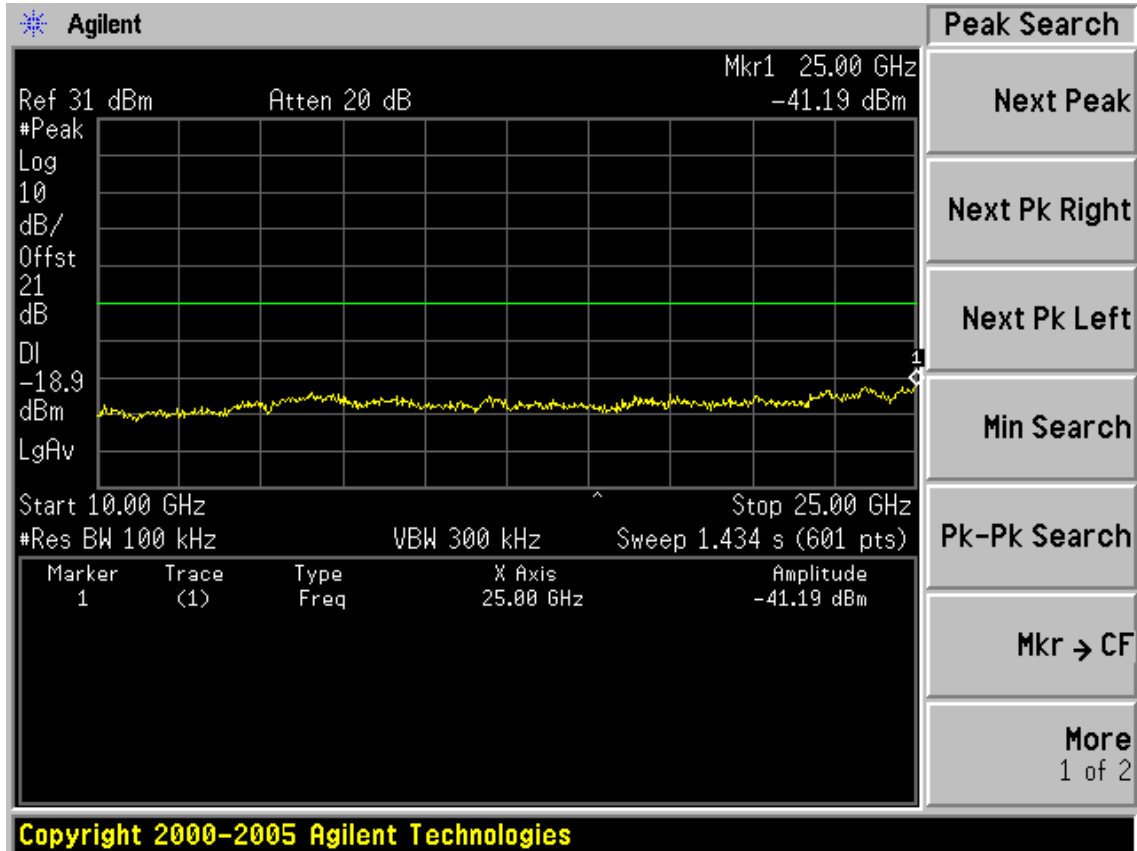




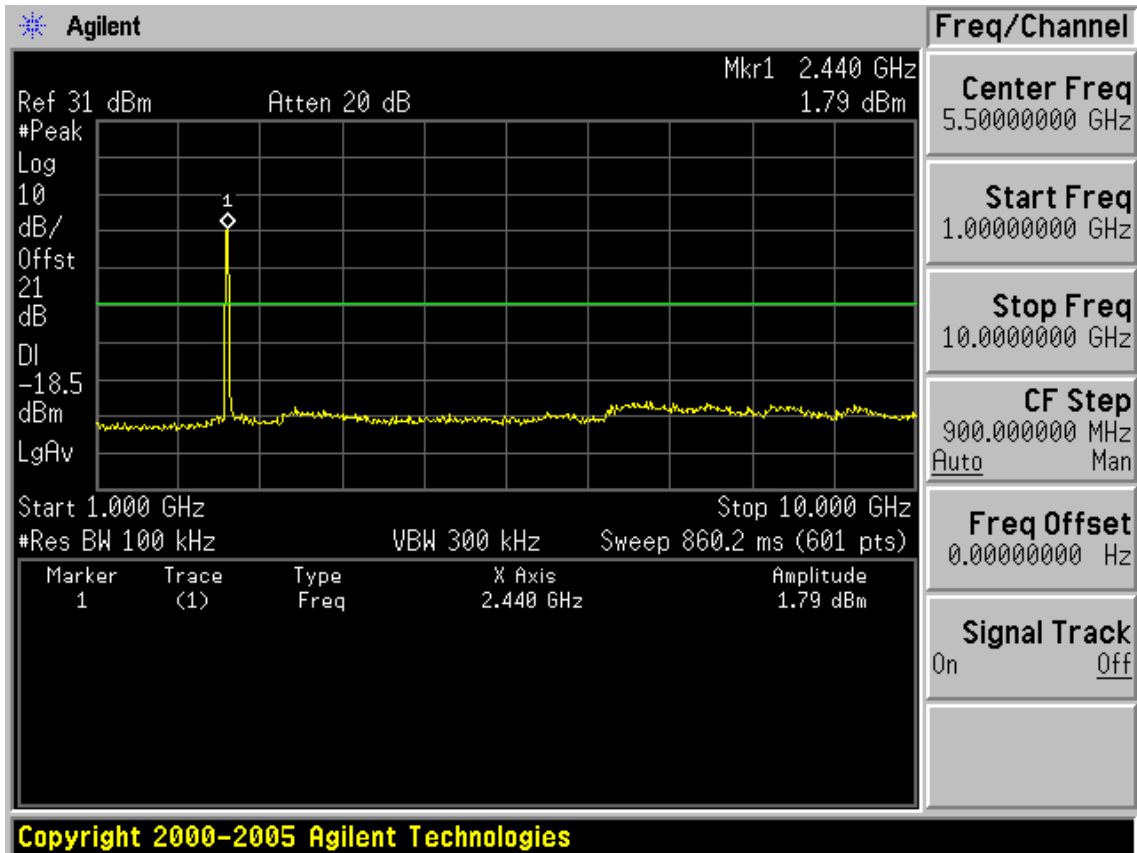
Test Mode: IEEE 802.11g TX
 Test CH1: 2412MHz

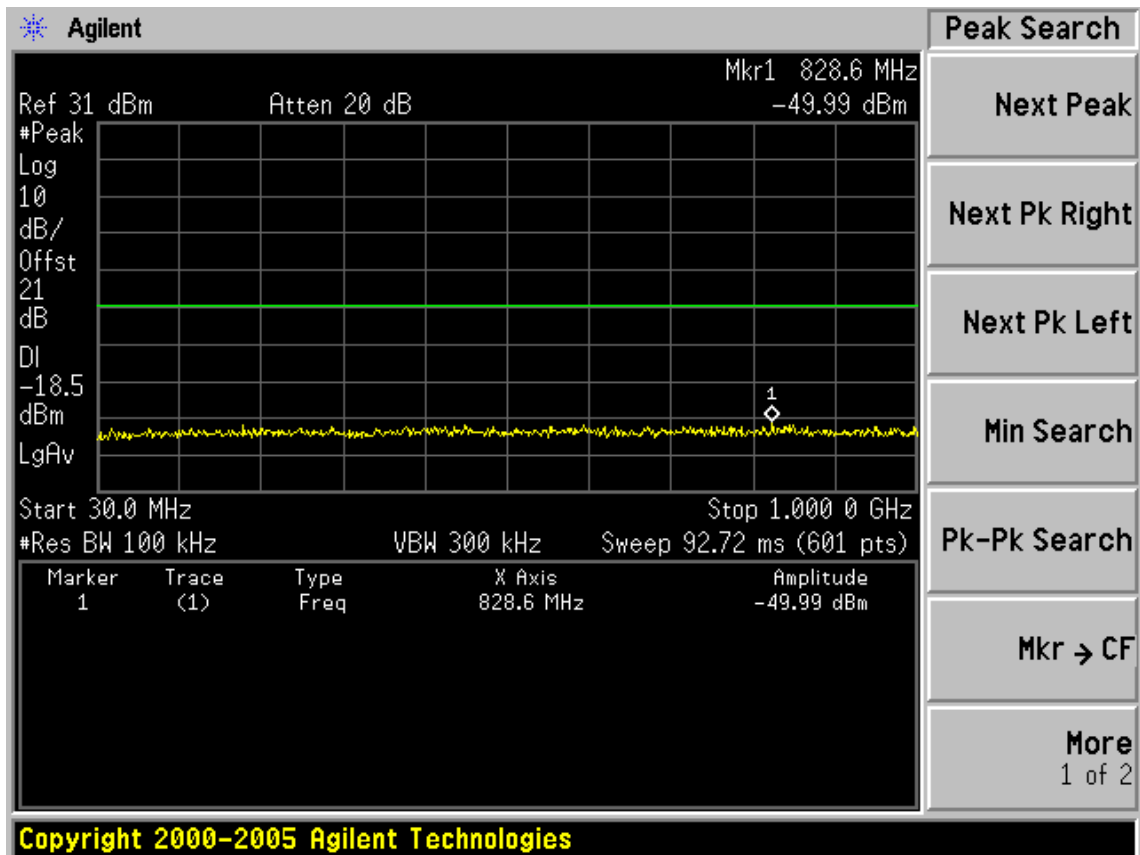
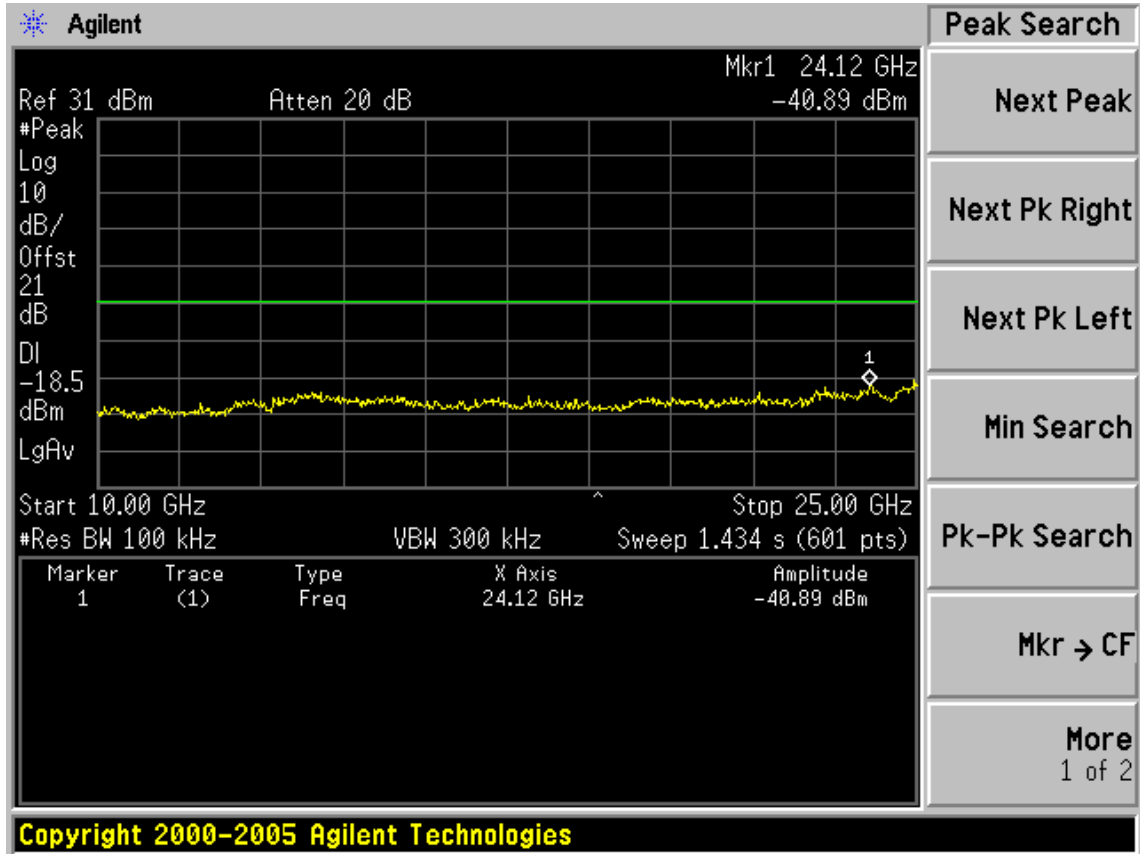




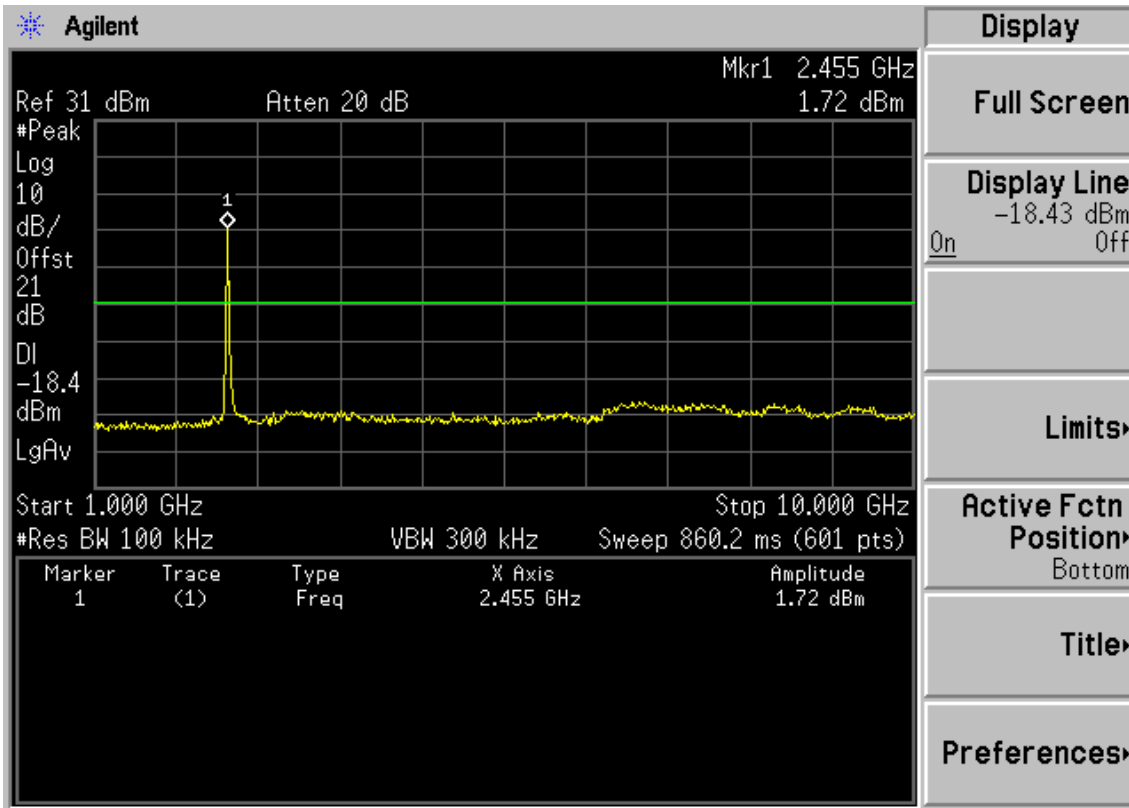


Test CH6: 2437MHz

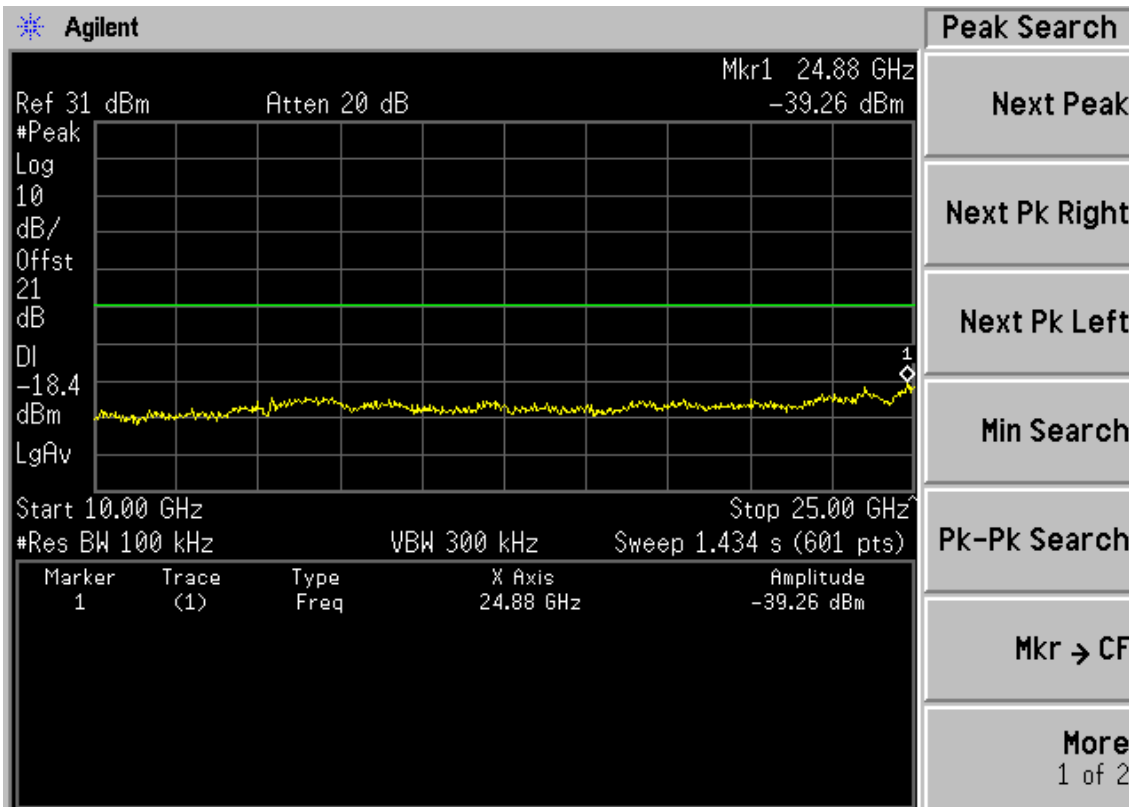




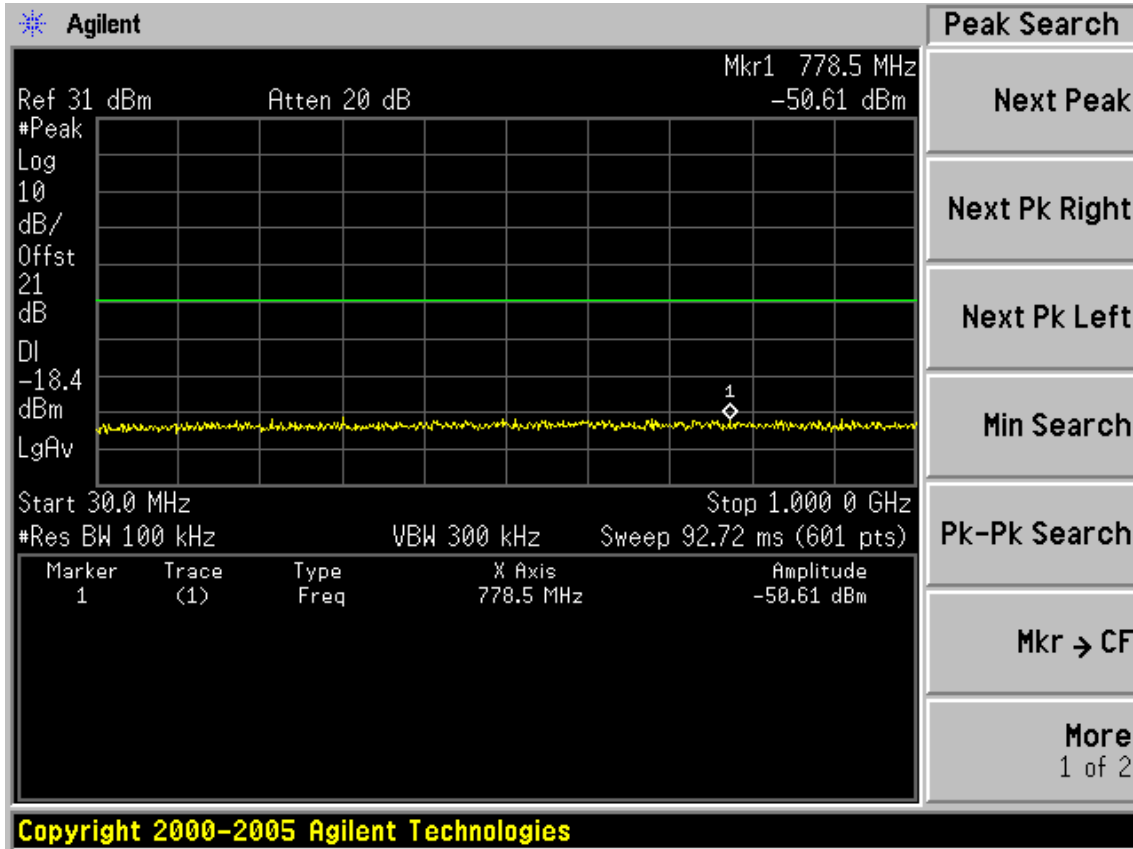
Test CH11: 2462MHz



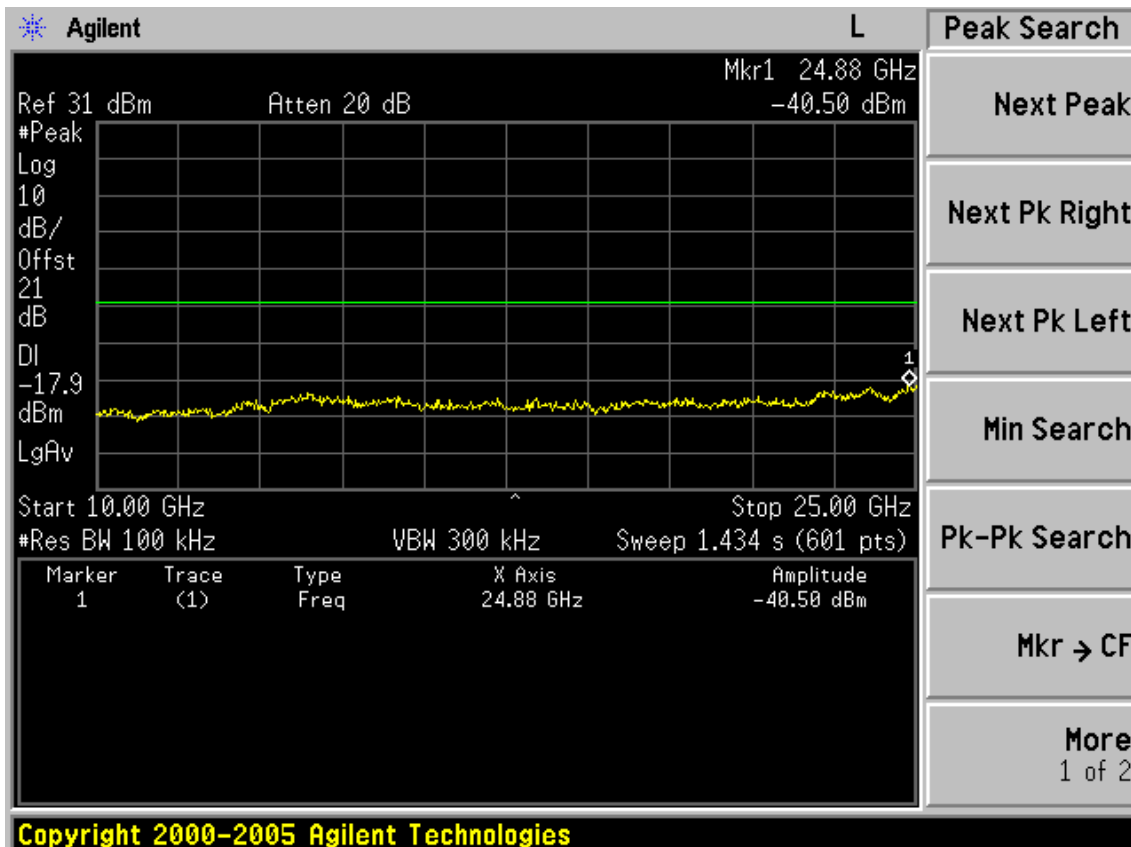
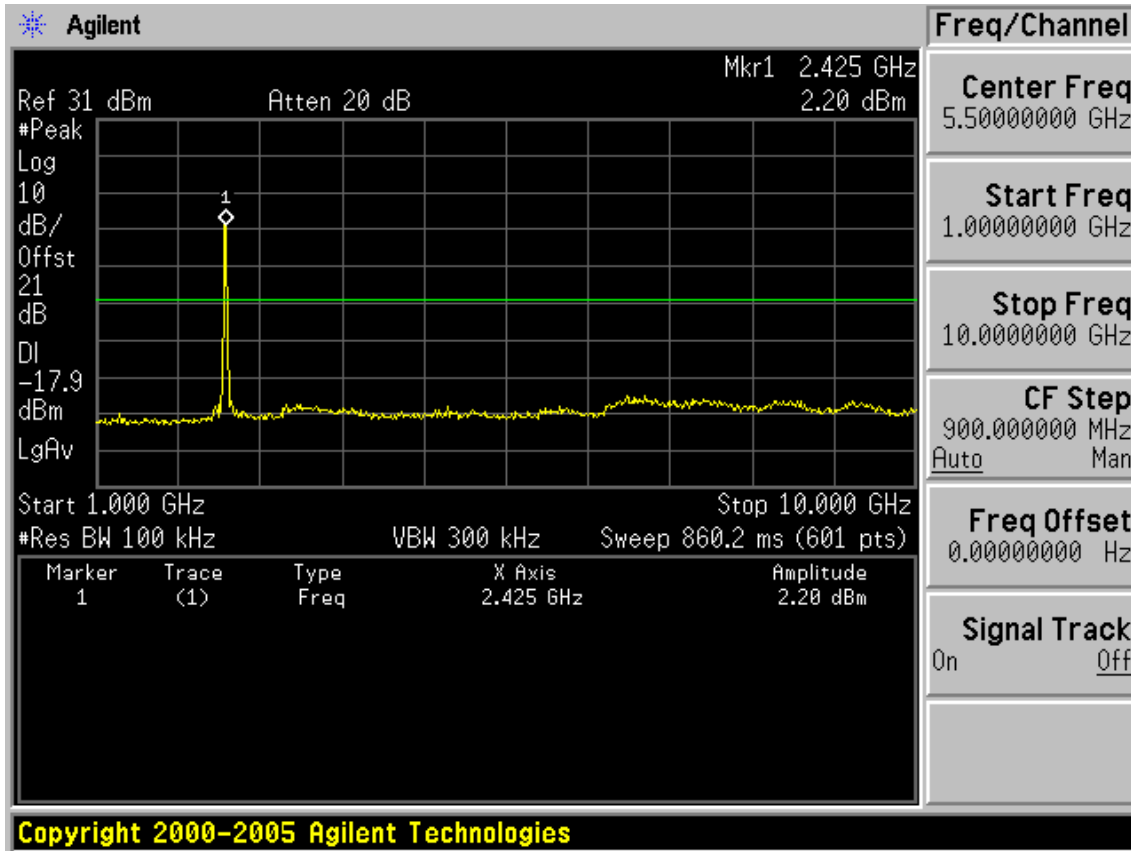
Copyright 2000-2005 Agilent Technologies

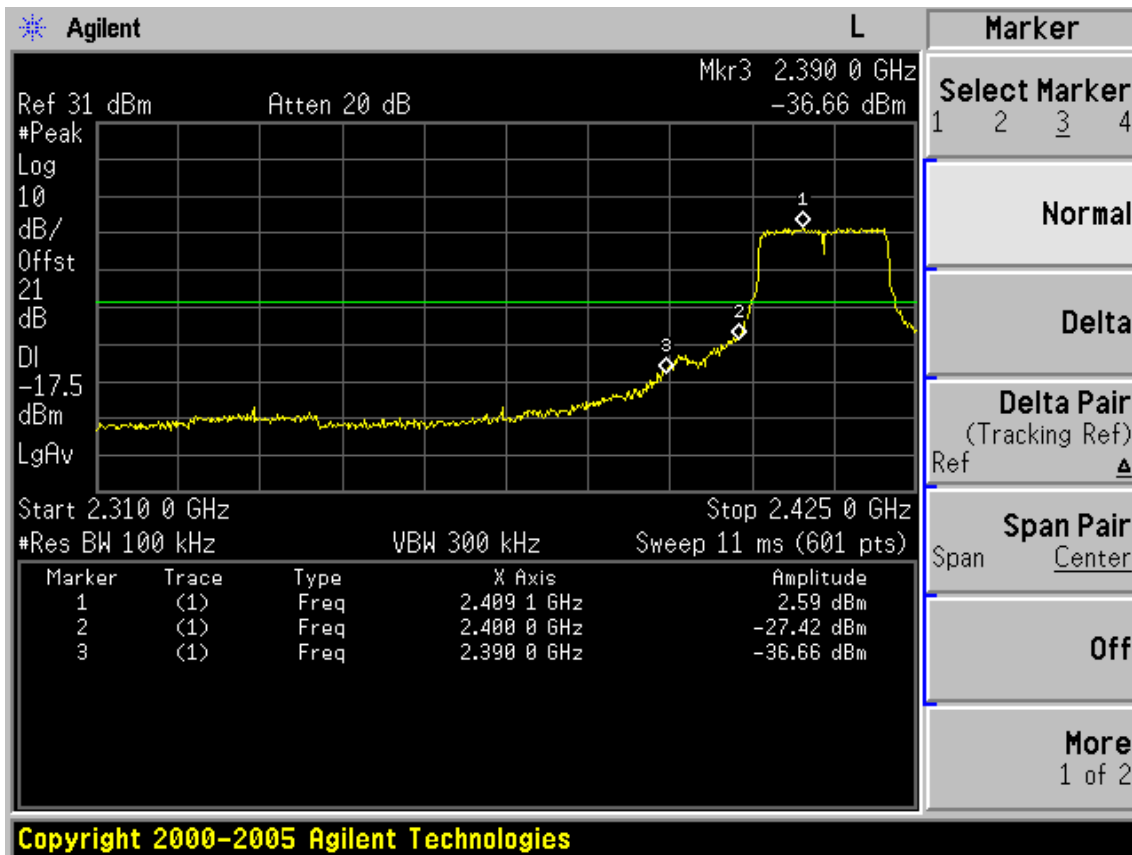
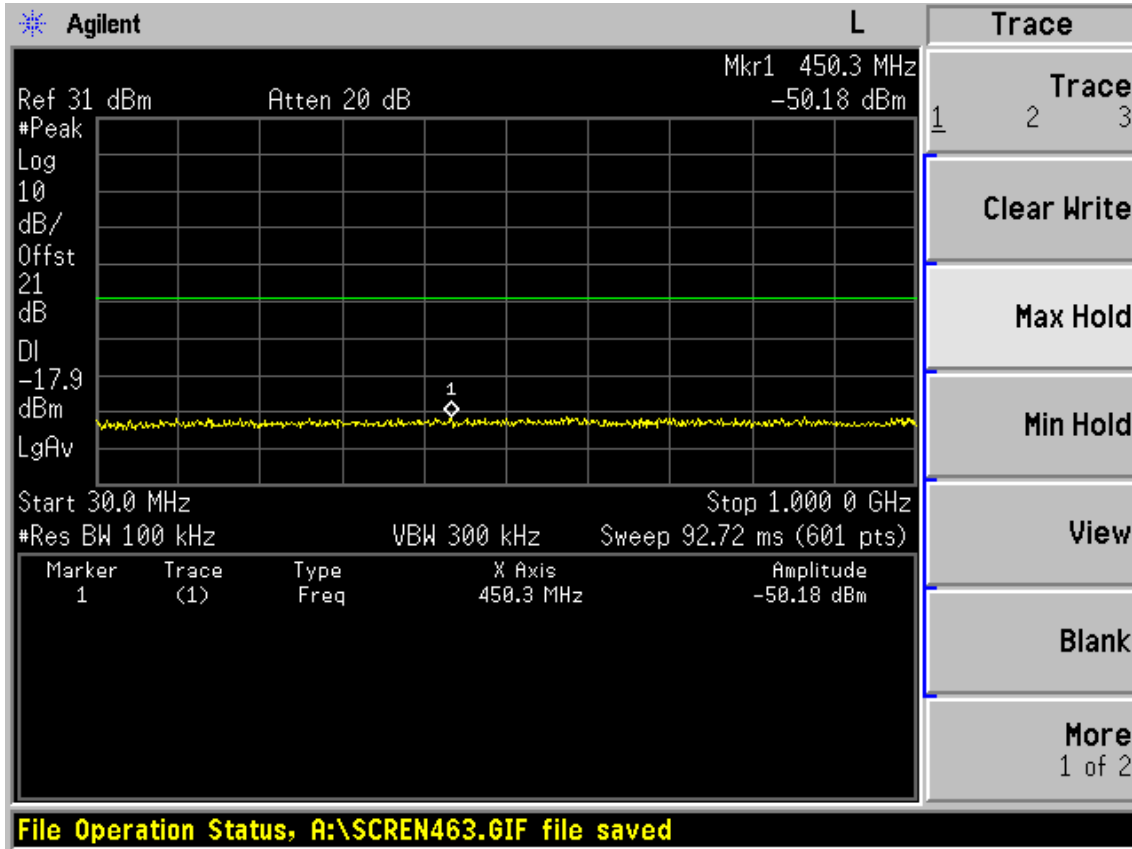


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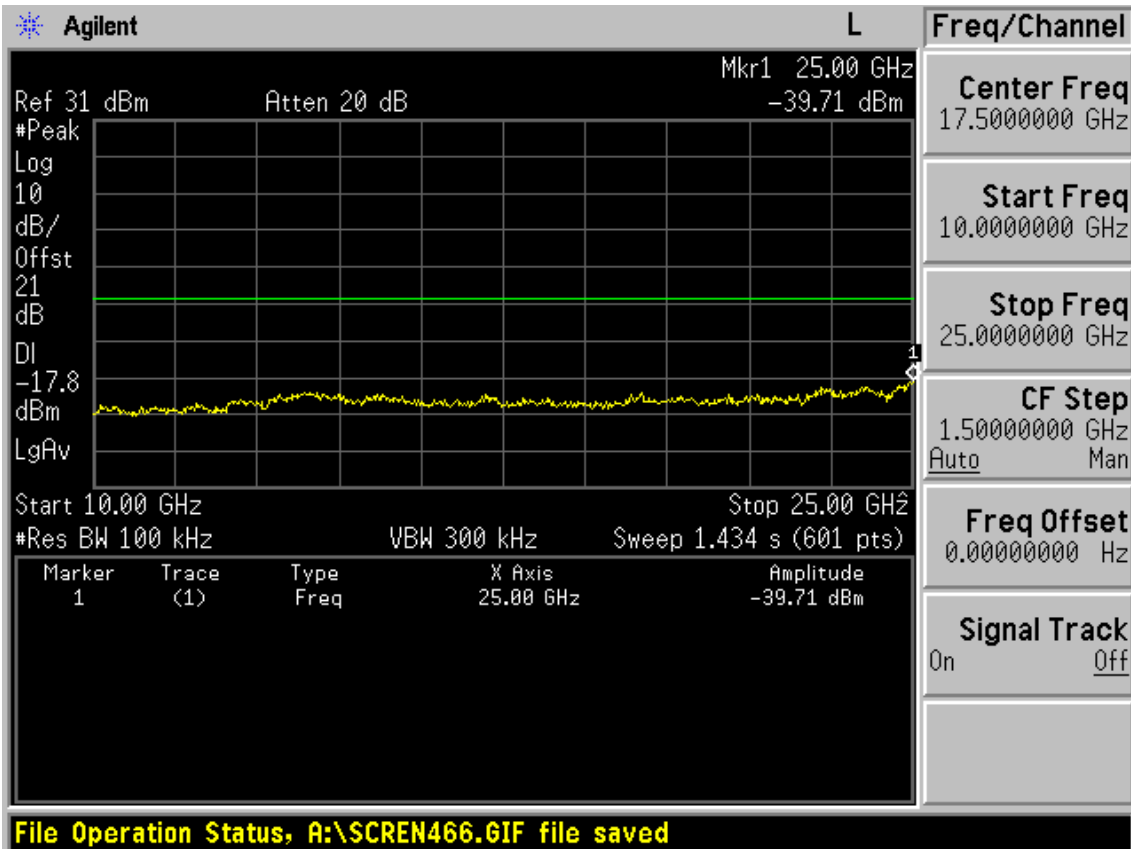
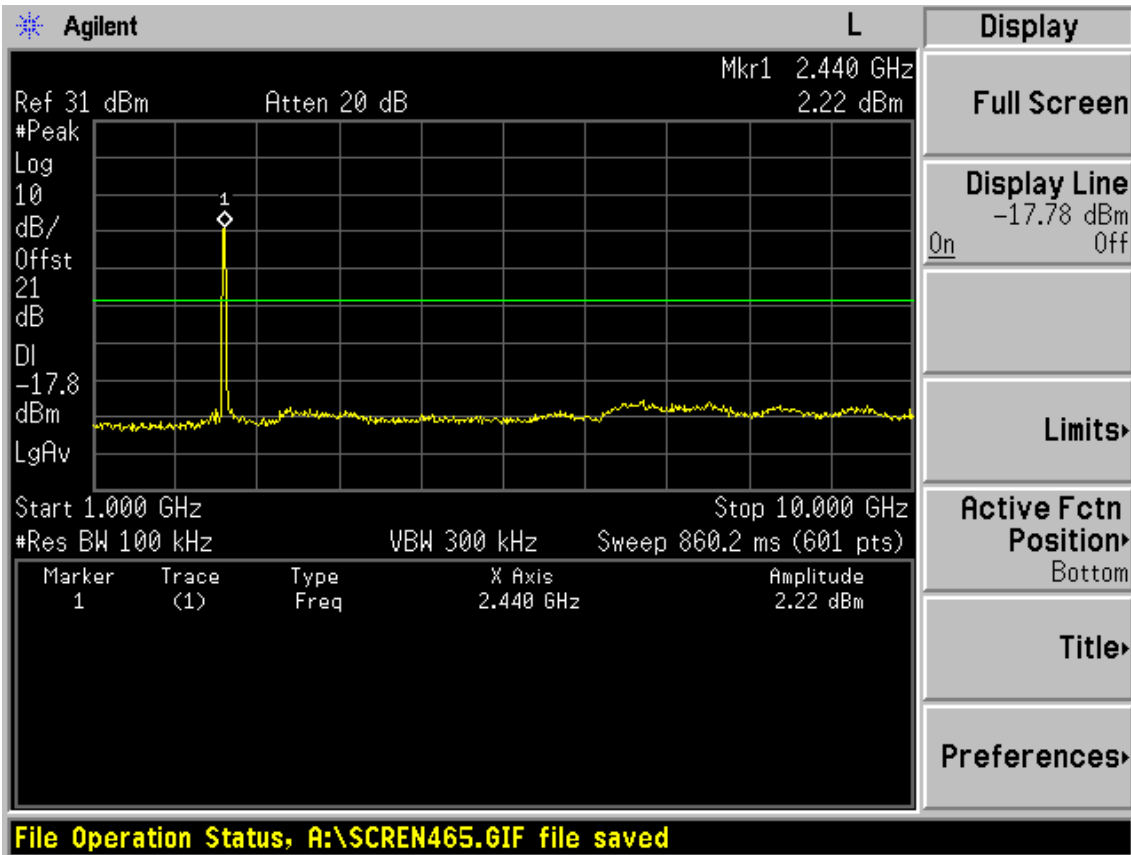


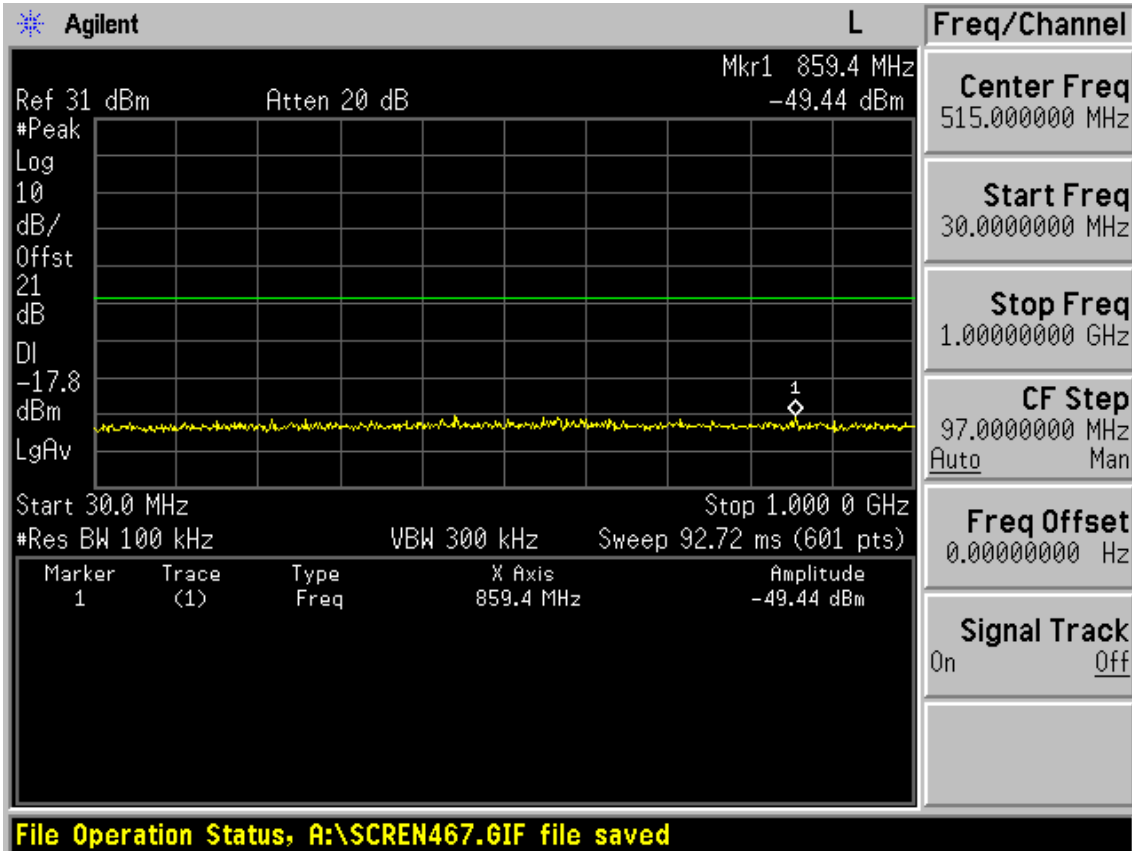
Test Mode: IEEE 802.11n HT20 TX
 Test CH1: 2412MHz



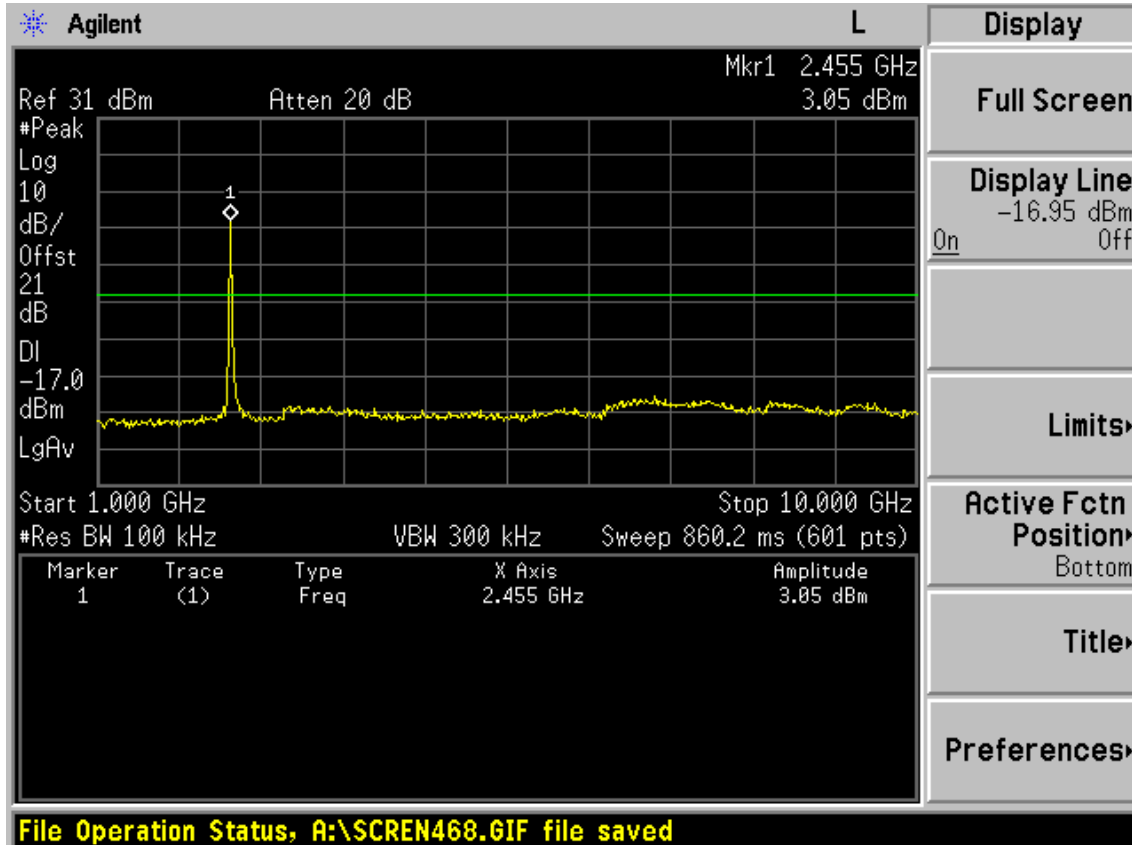


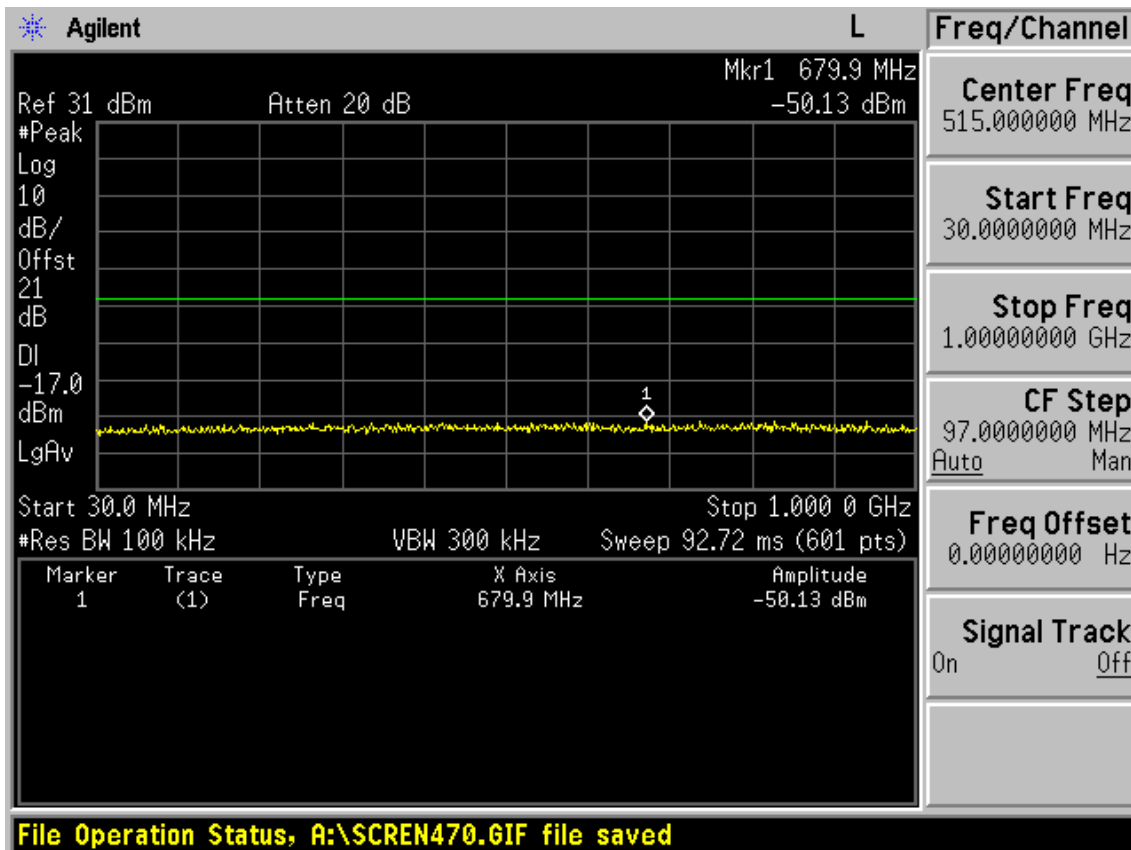
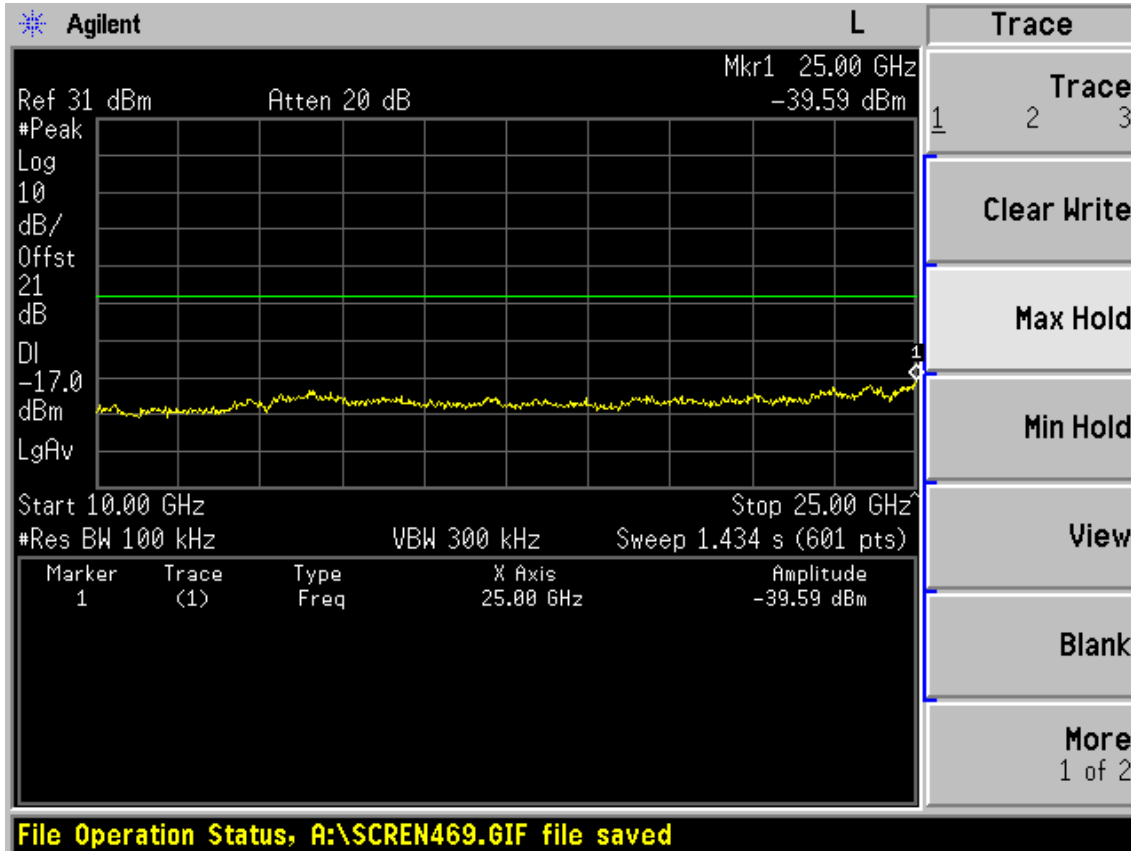
Test CH6: 2437MHz

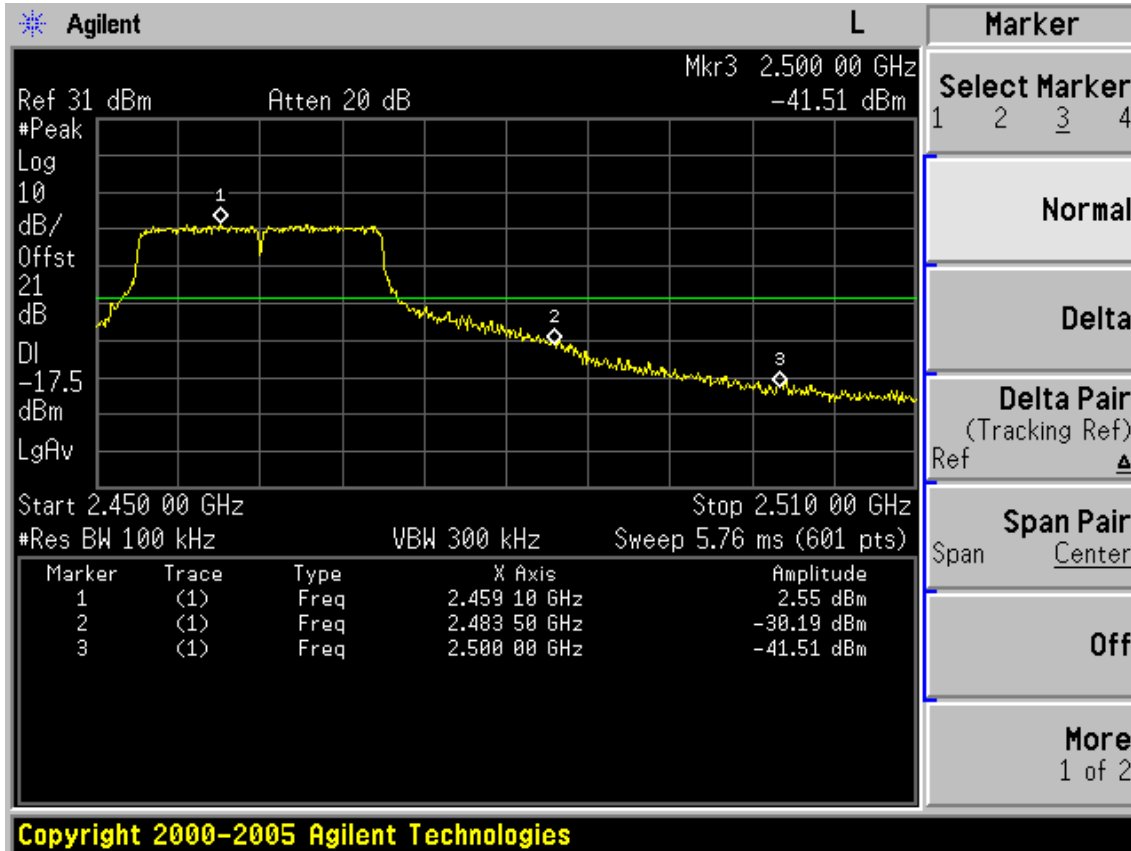




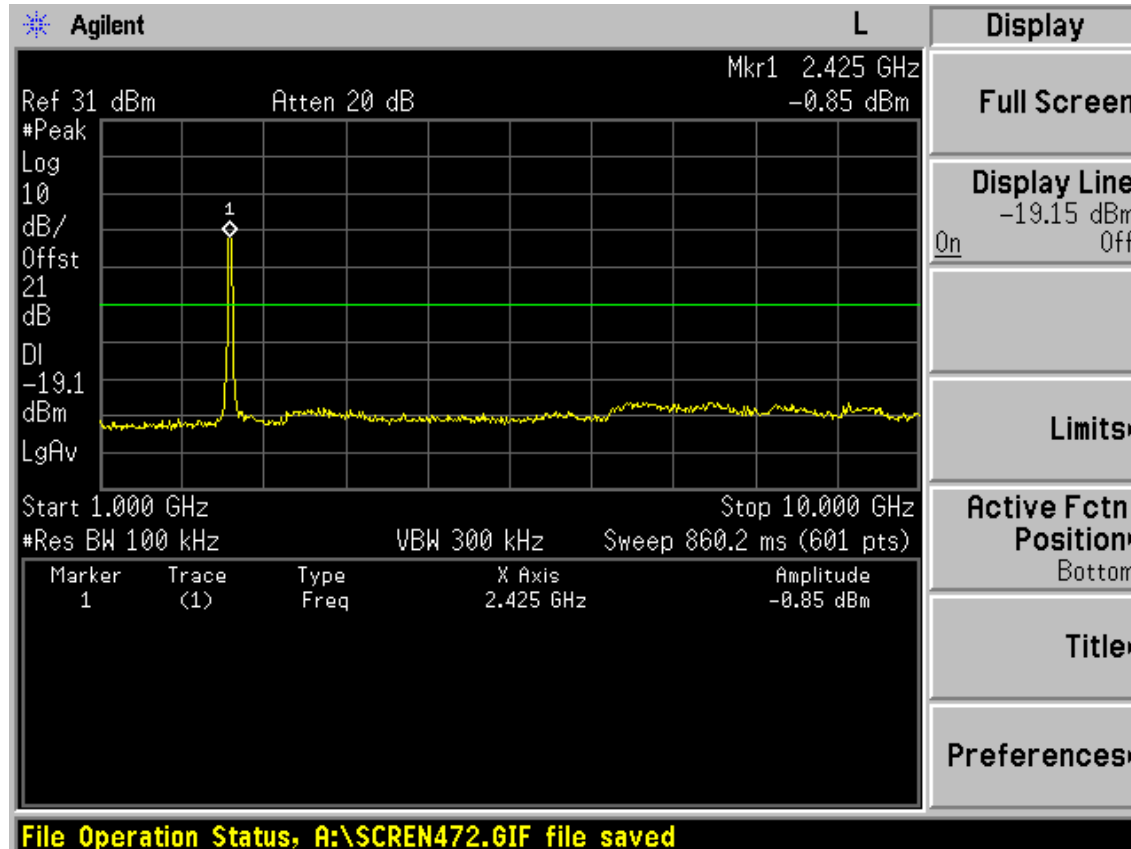
Test CH11: 2462MHz

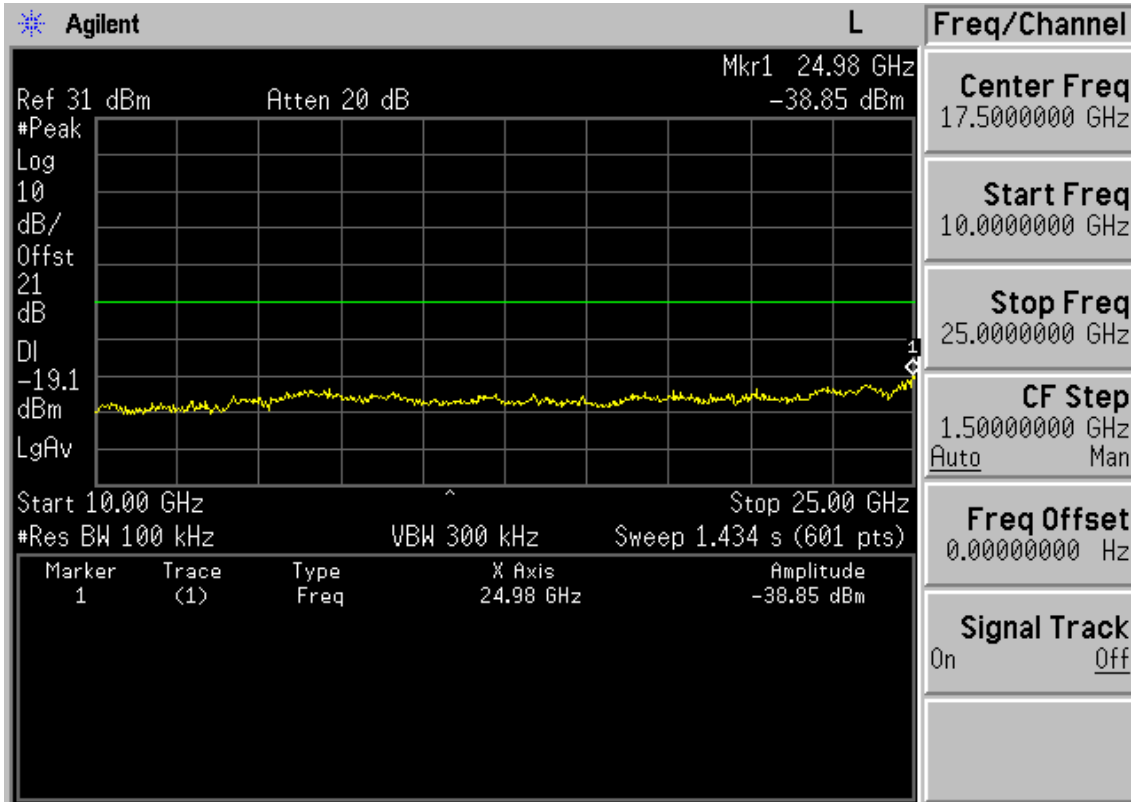




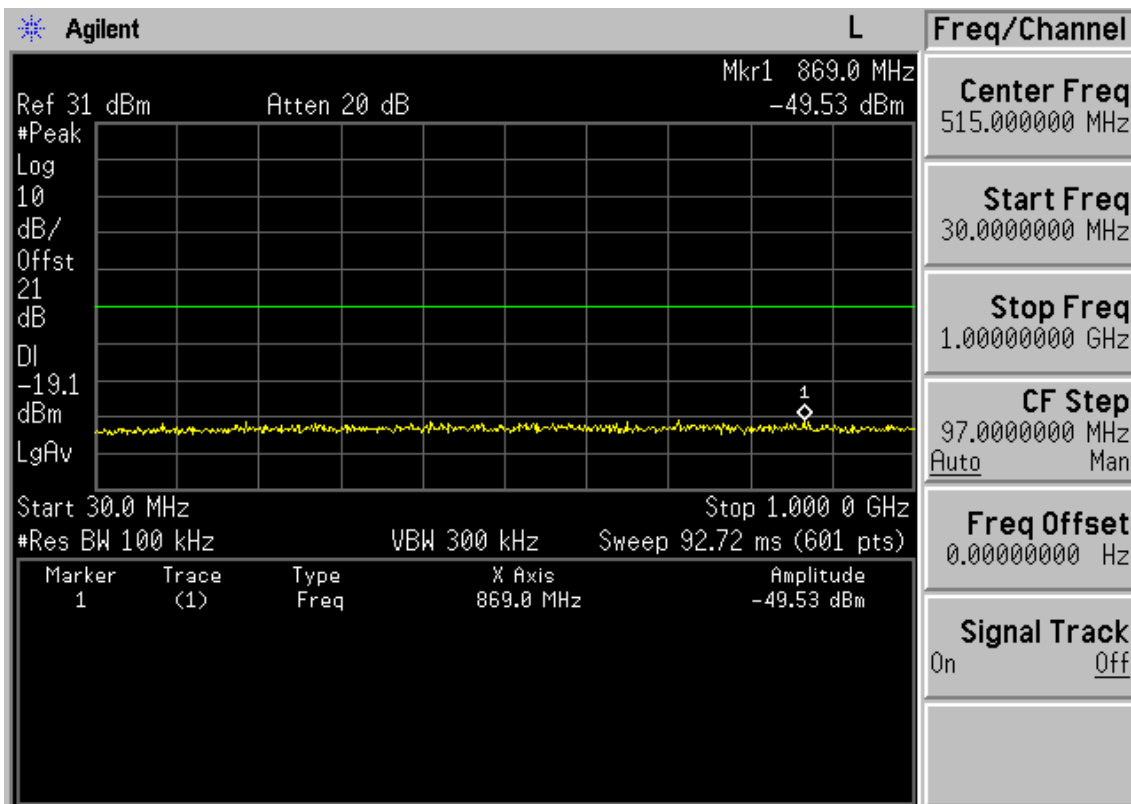


Test Mode: IEEE 802.11n HT40 TX
 Test CH1: 2422MHz

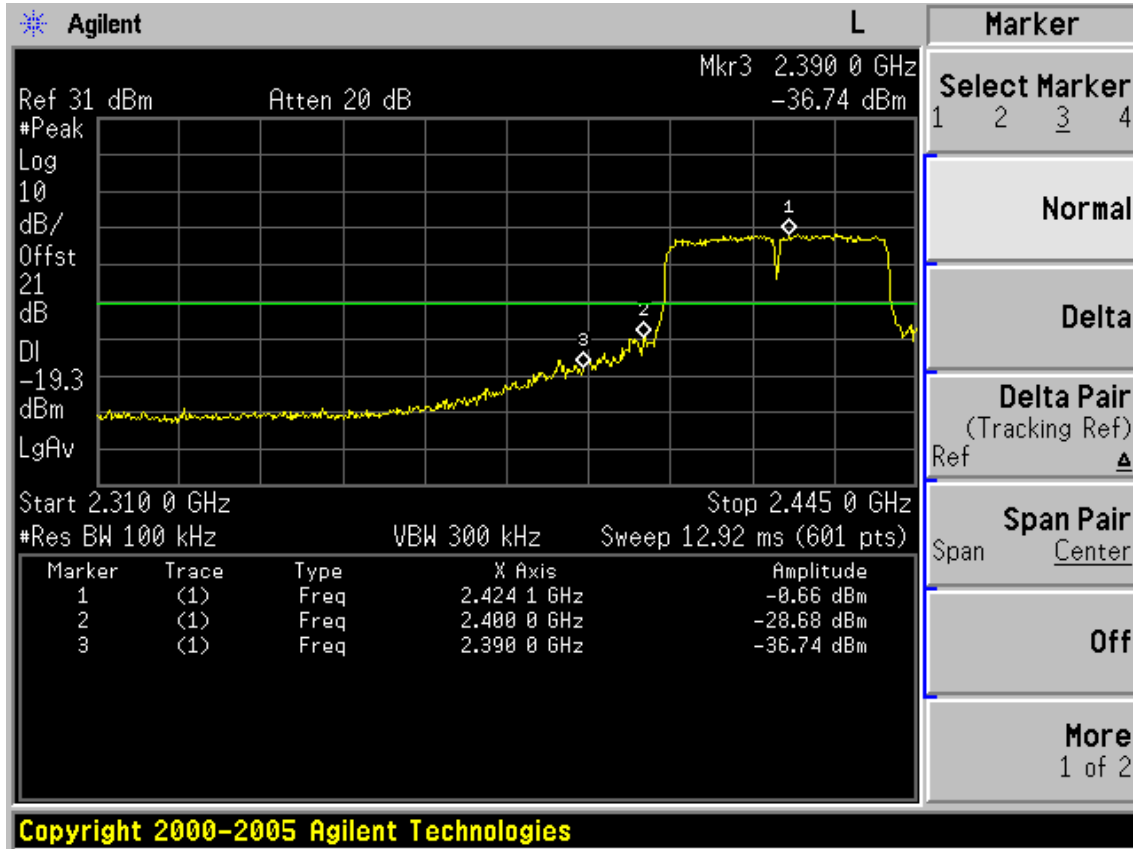




File Operation Status, A:\SCREN473.GIF file saved

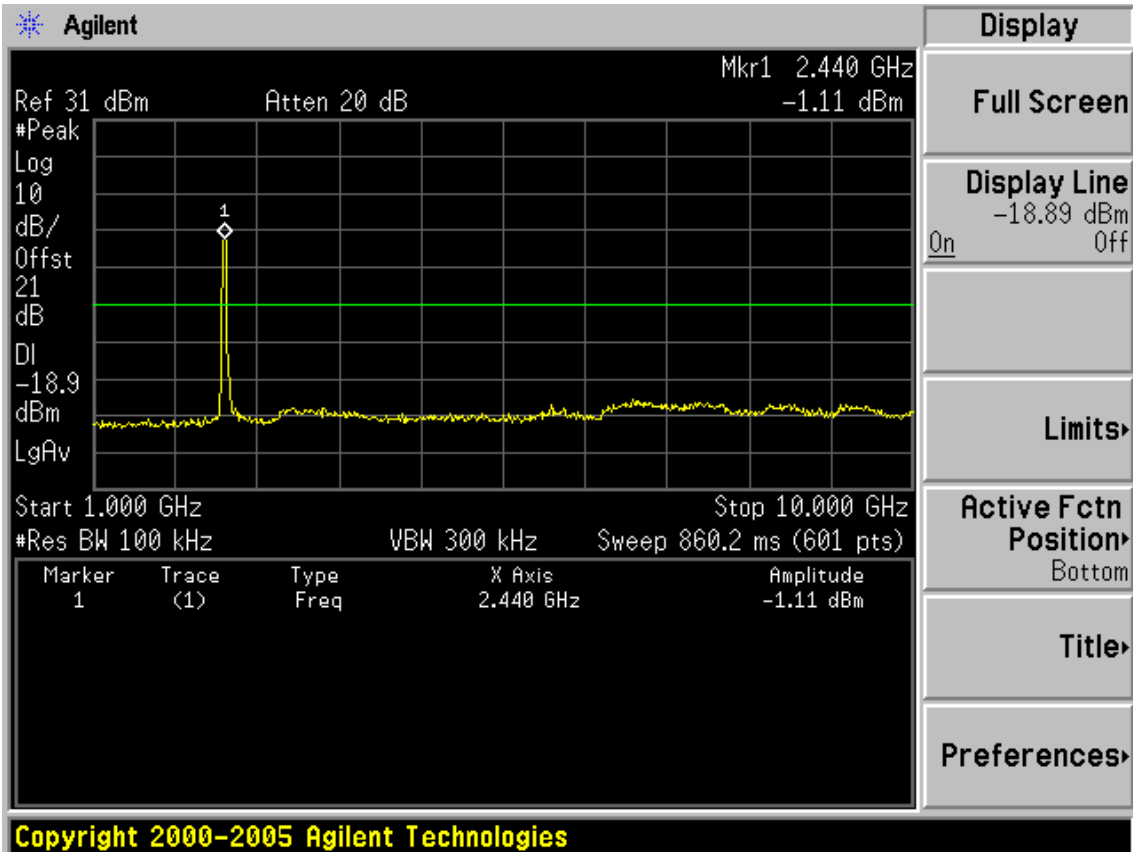


File Operation Status, A:\SCREN474.GIF file saved

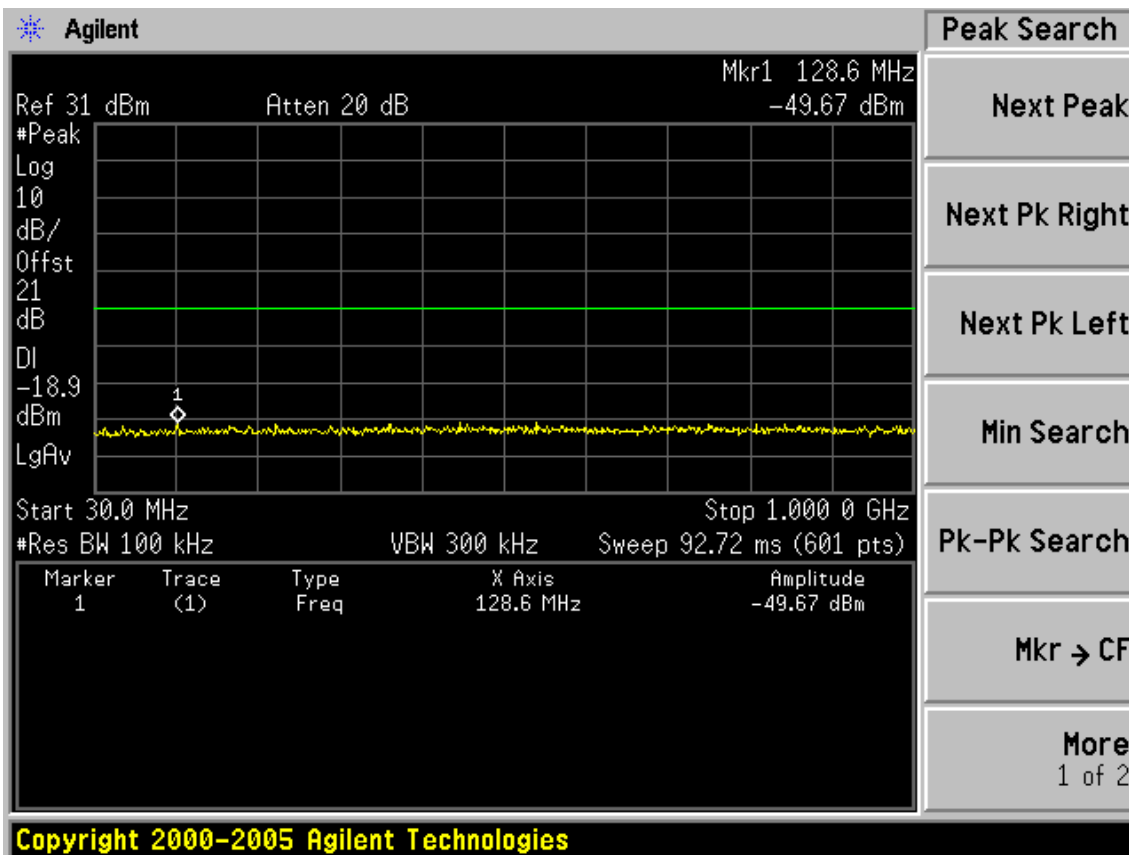
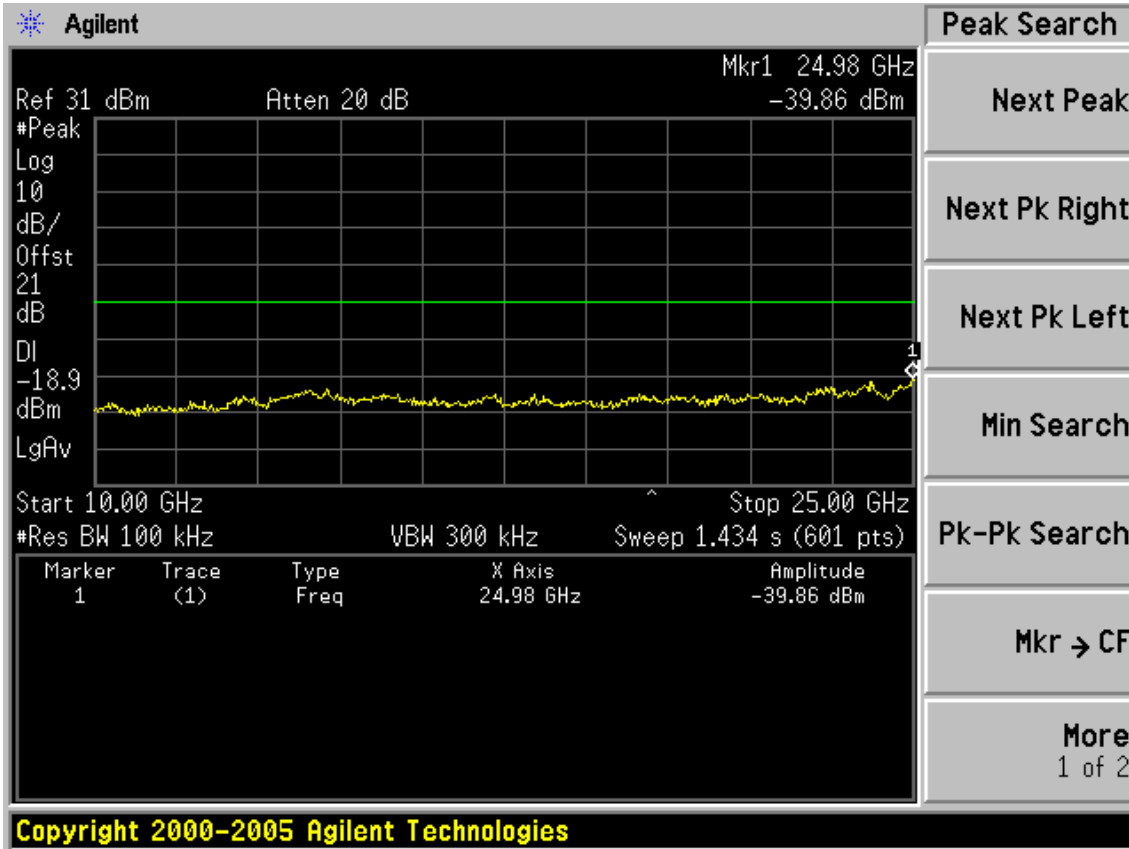


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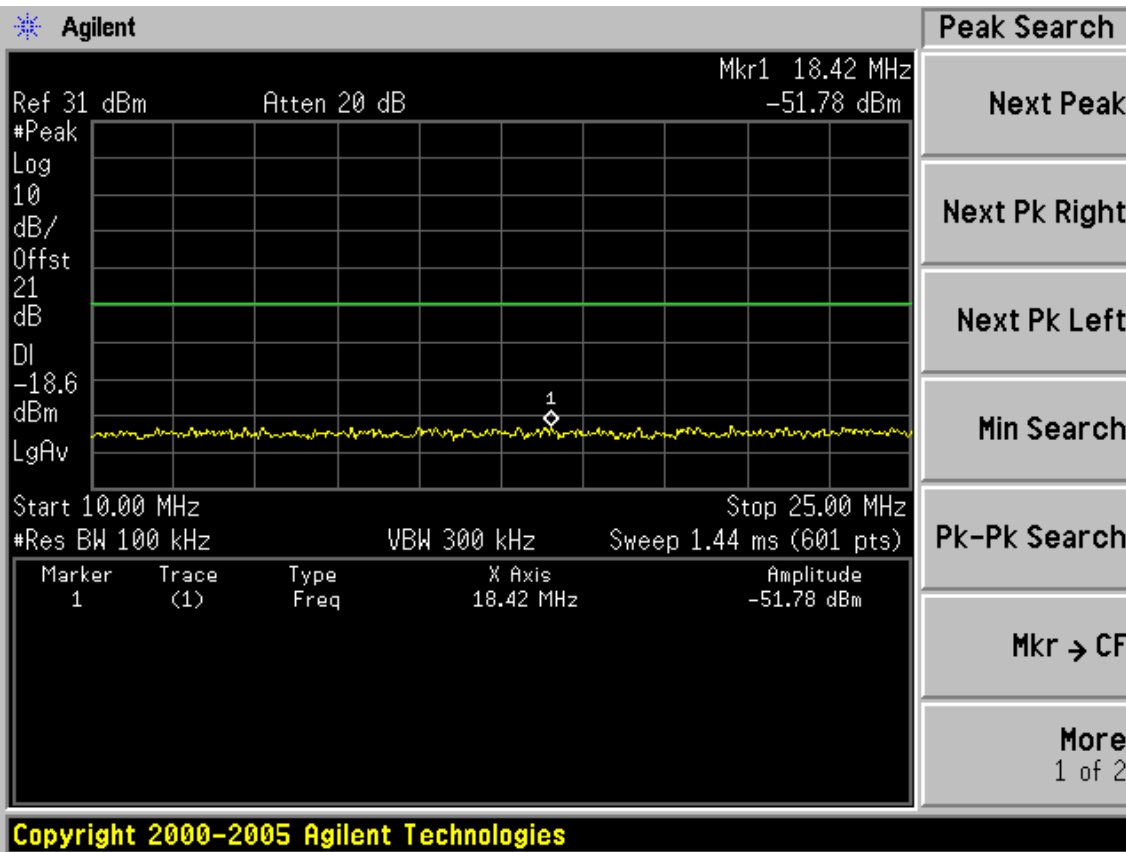
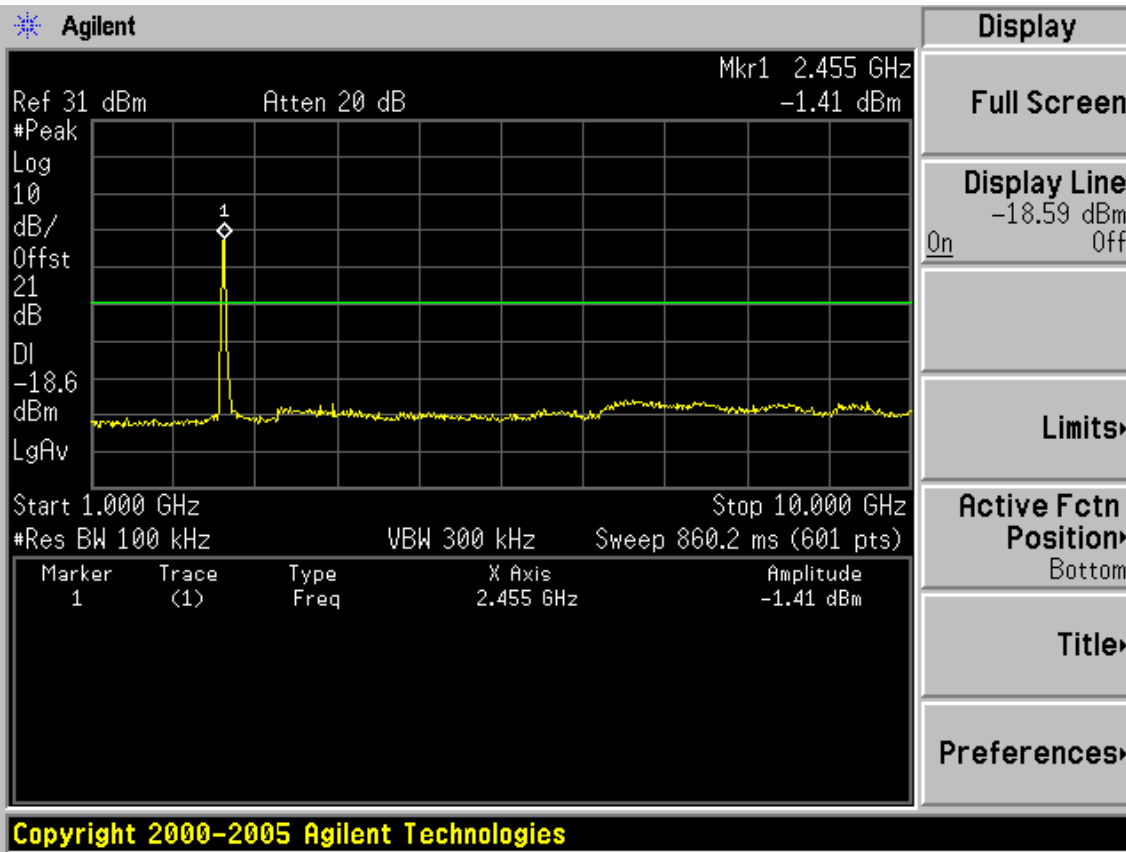
Test CH4: 2437MHz

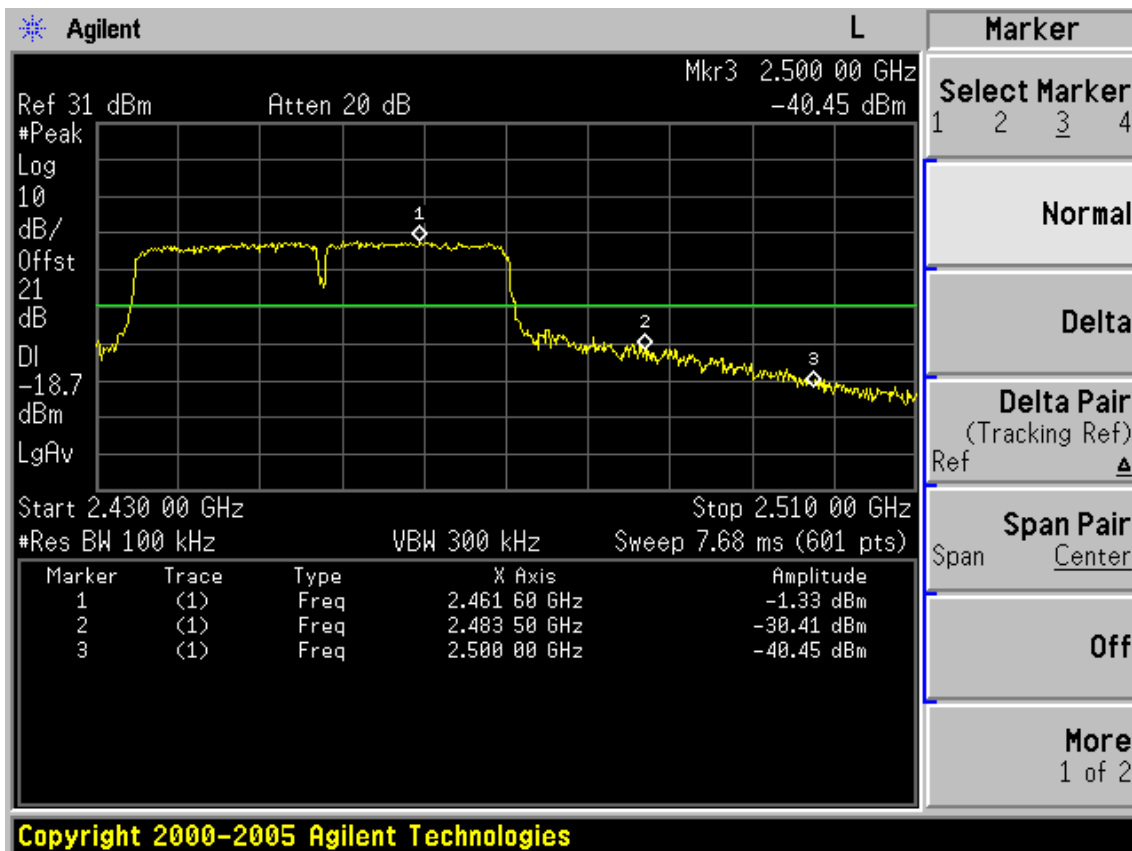
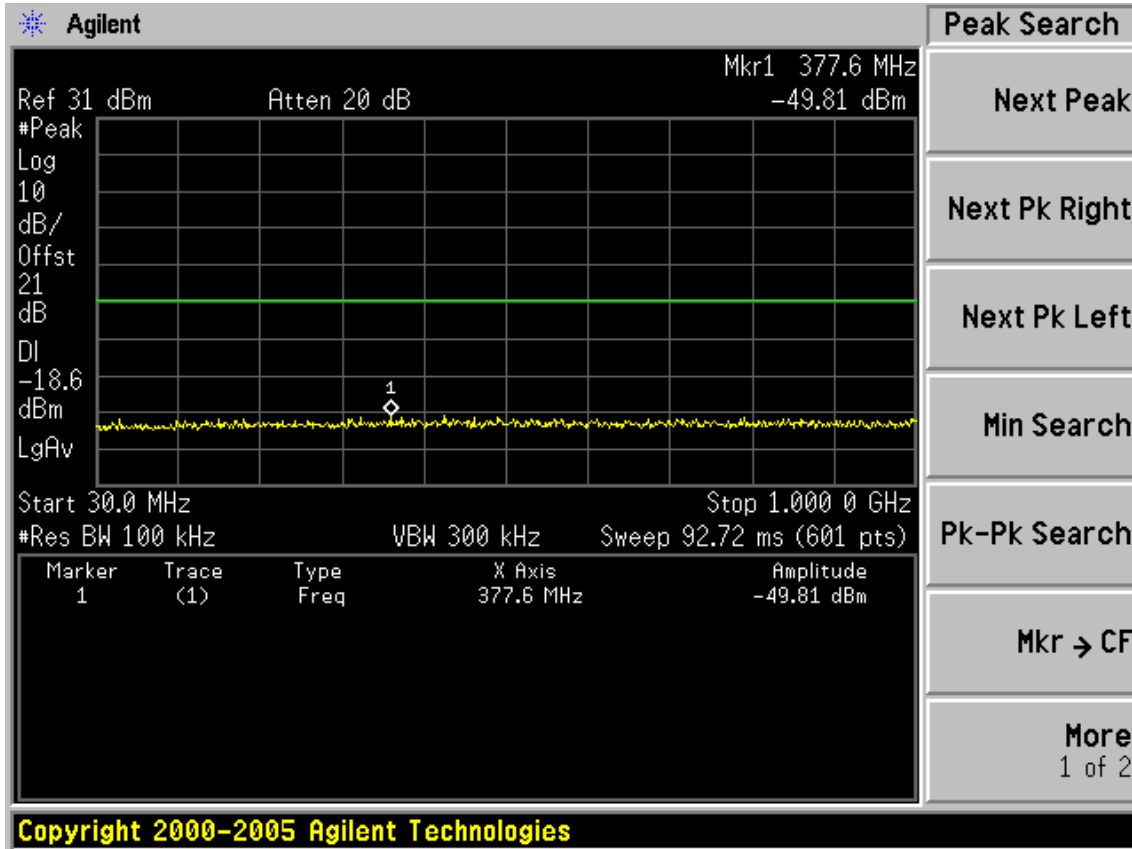


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Test CH7: 2452MHz





6. BAND EDGE COMPLIANCE TEST

6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	May.08, 12	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 12	1 Year
3.	Antenna	EMCO	3115	9510-4580	May.08, 12	1Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 12	1 Year

6.2. Limit

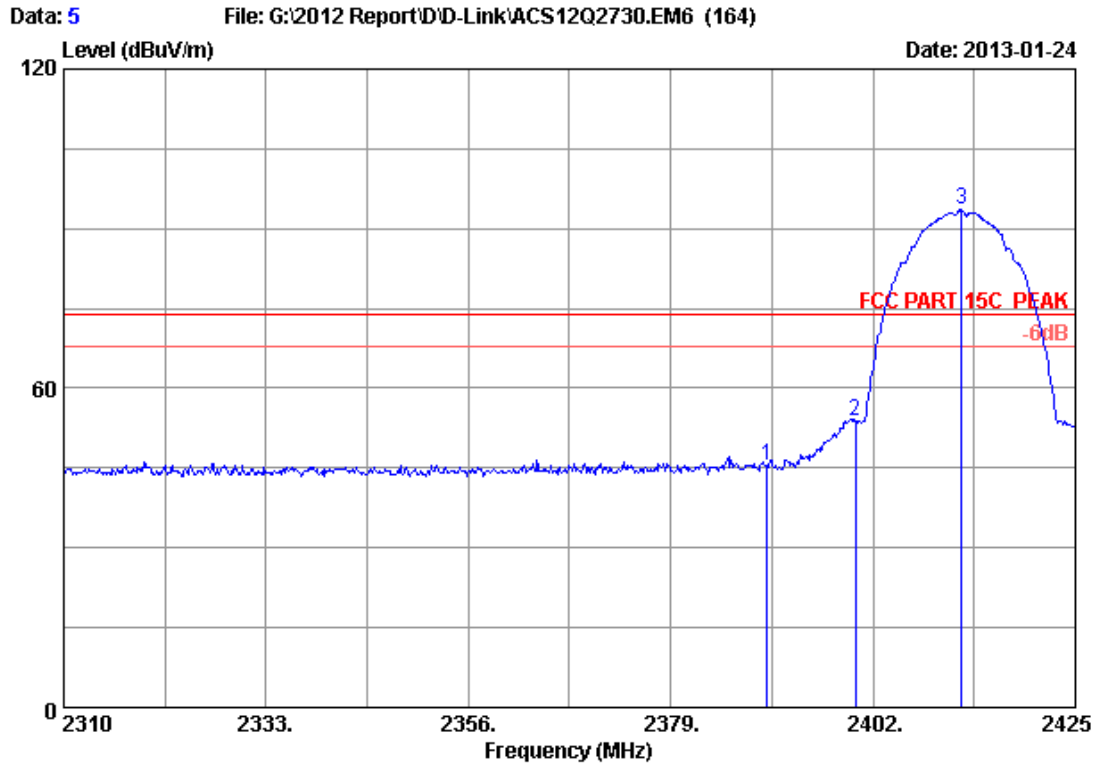
All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental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

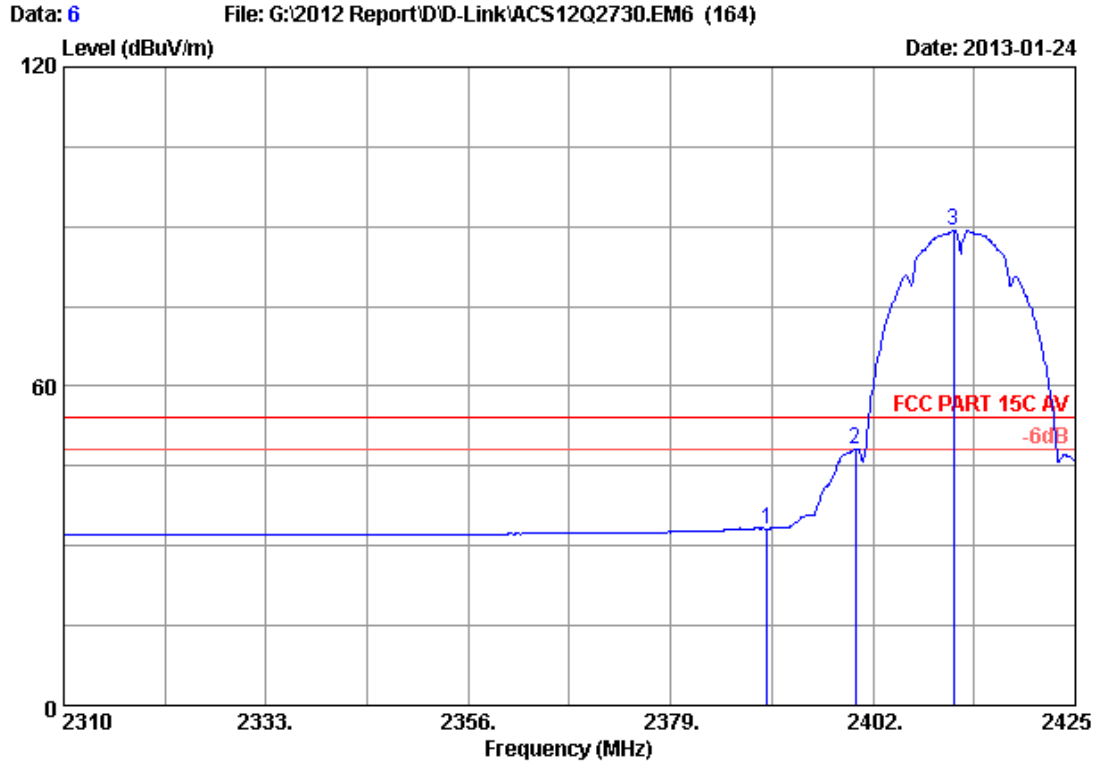


Site no. : 3m Chamber Data no. : 5
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz
 M/N : DWA-125
 :

	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	2390.000	26.70	6.00	35.92	48.54	45.32	74.00	28.68	Peak
2	2400.000	26.76	6.02	35.92	57.12	53.98	74.00	20.02	Peak
3	2412.120	26.84	6.04	35.92	96.61	93.57	74.00	-19.57	Peak

Remarks:

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

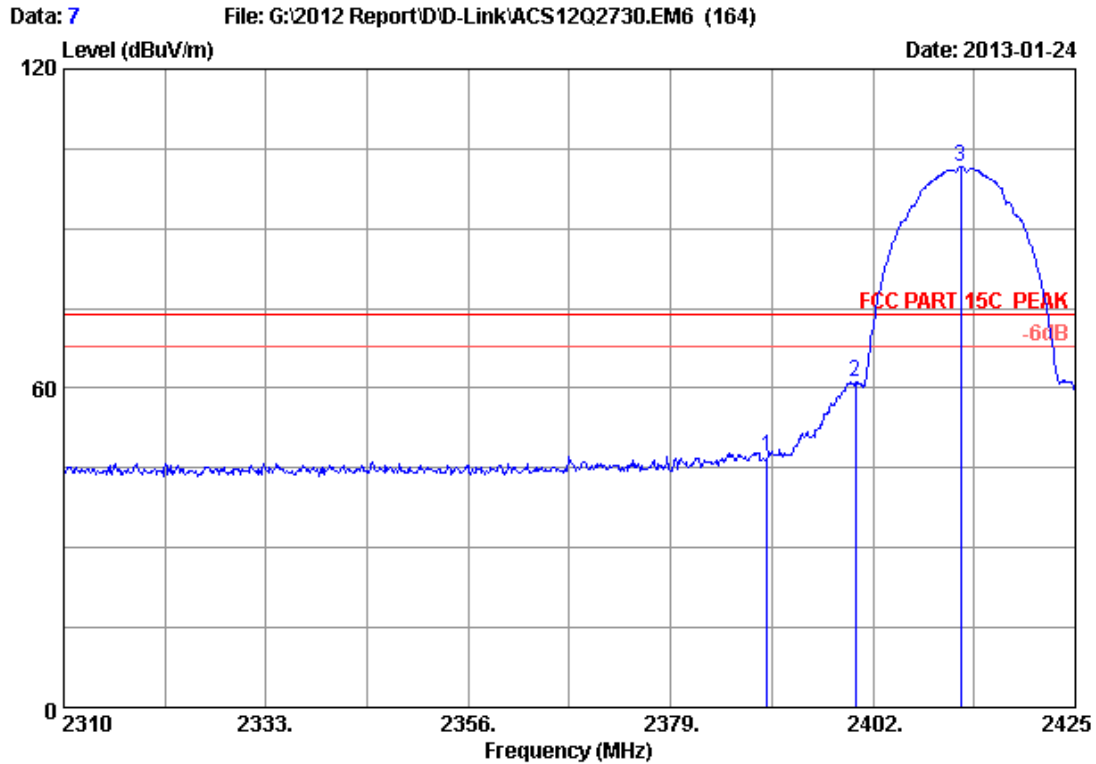


Site no. : 3m Chamber Data no. : 6
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz
 M/N : DWA-125
 :

	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	2390.000	26.70	6.00	35.92	36.45	33.23	54.00	20.77	Average
2	2400.000	26.76	6.02	35.92	51.32	48.18	54.00	5.82	Average
3	2411.200	26.83	6.04	35.92	92.43	89.38	54.00	-35.38	Average

Remarks:

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

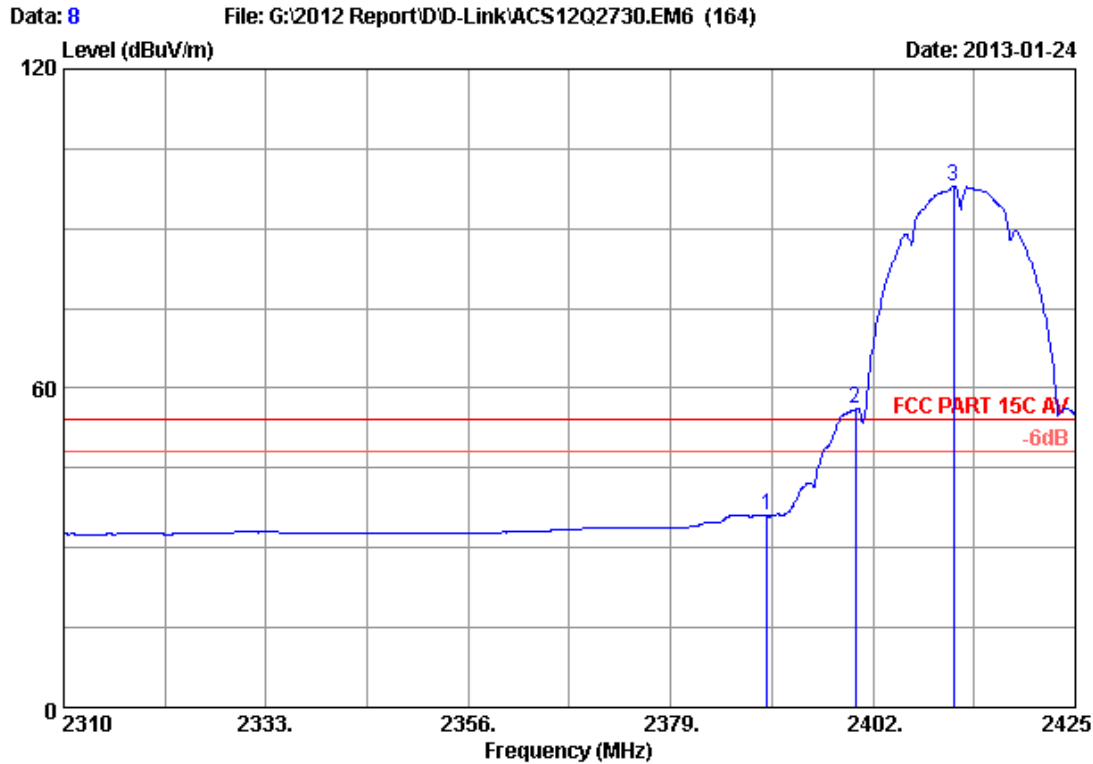


Site no. : 3m Chamber Data no. : 7
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz
 M/N : DWA-125
 :

	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	2390.000	26.70	6.00	35.92	50.51	47.29	74.00	26.71	Peak
2	2400.000	26.76	6.02	35.92	64.31	61.17	74.00	12.83	Peak
3	2412.005	26.84	6.04	35.92	104.82	101.78	74.00	-27.78	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.

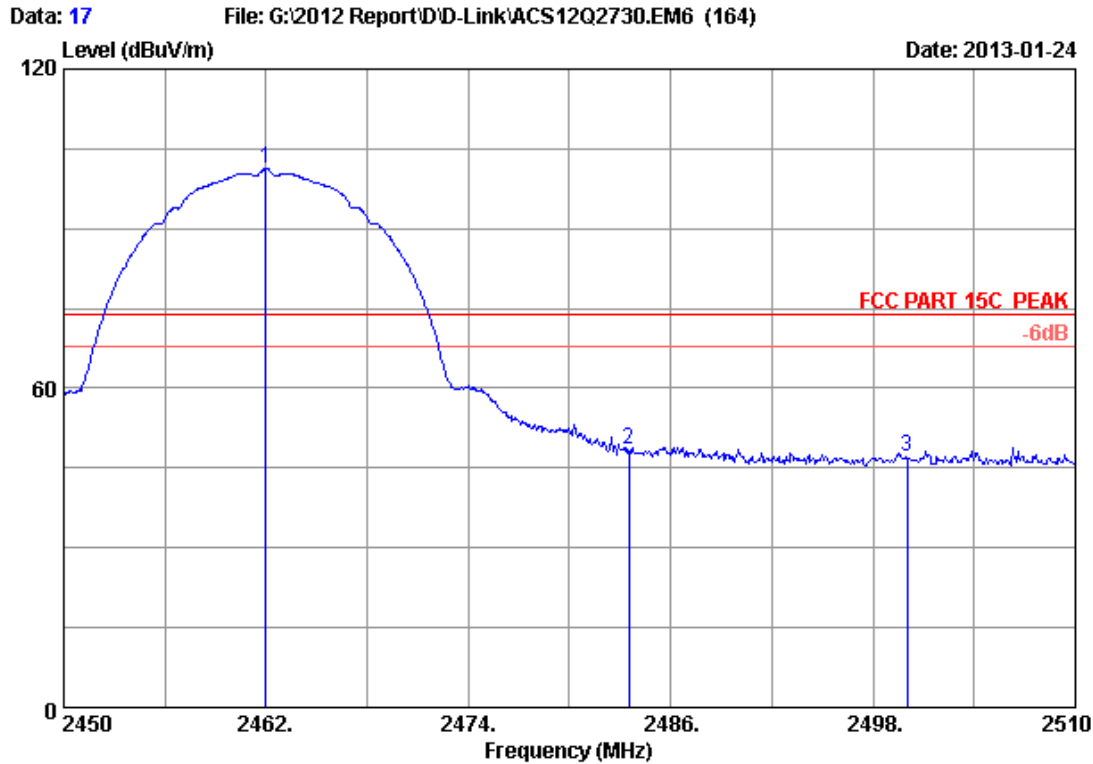


Site no. : 3m Chamber Data no. : 8
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz
 M/N : DWA-125
 :

	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	2390.000	26.70	6.00	35.92	39.17	35.95	54.00	18.05	Average
2	2400.000	26.76	6.02	35.92	59.28	56.14	54.00	-2.14	Average
3	2411.200	26.83	6.04	35.92	100.94	97.89	54.00	-43.89	Average

Remarks:

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

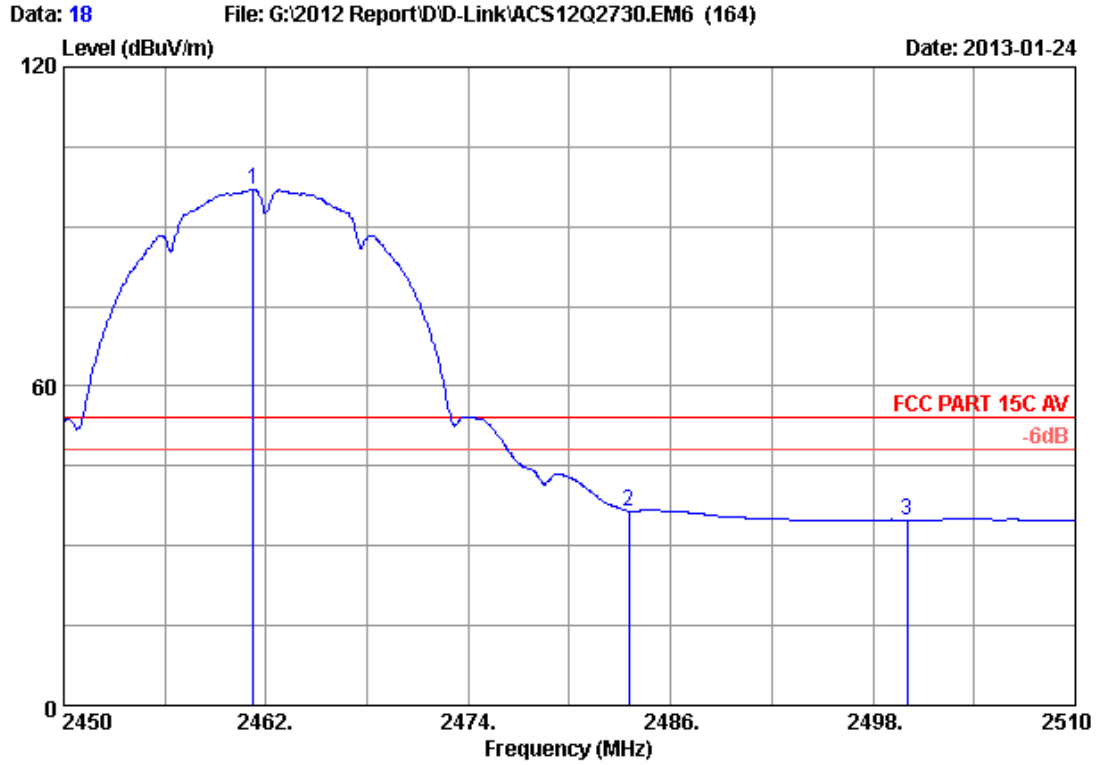


Site no. : 3m Chamber Data no. : 17
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz
 M/N : DWA-125
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.000	27.16	6.12	35.92	103.87	101.23	74.00	-27.23	Peak
2	2483.500	27.29	6.16	35.92	50.88	48.41	74.00	25.59	Peak
3	2500.000	27.40	6.19	35.93	49.31	46.97	74.00	27.03	Peak

Remarks:

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

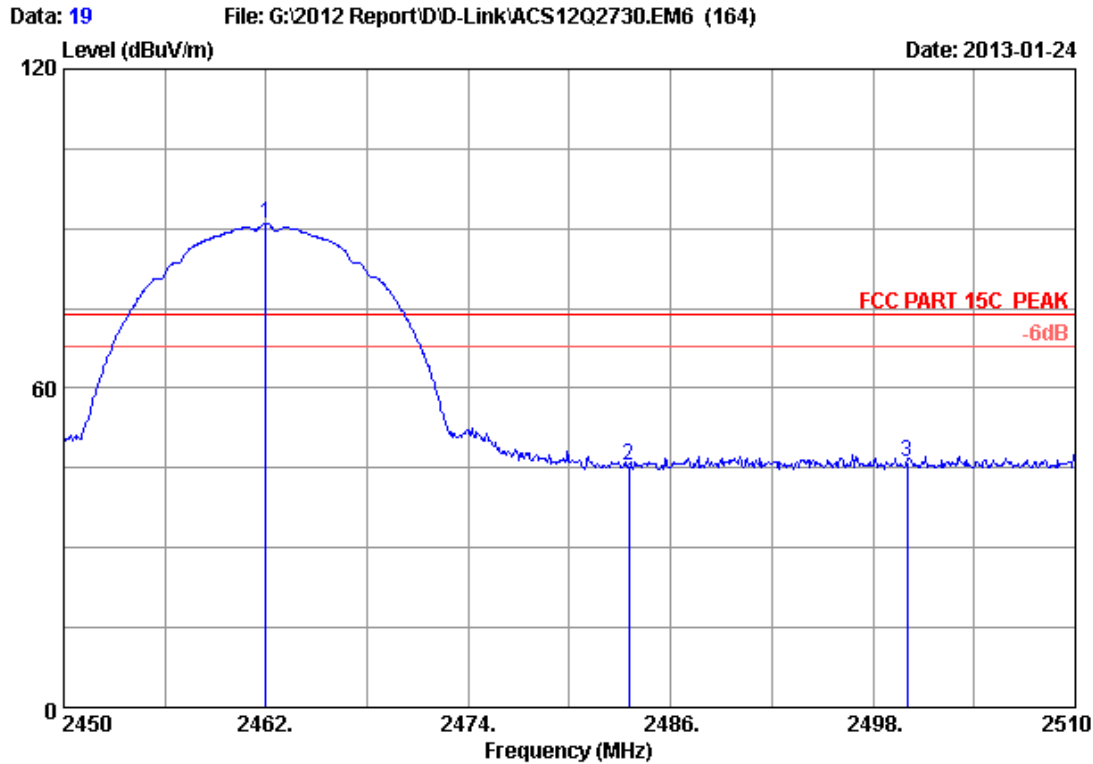


Site no. : 3m Chamber Data no. : 18
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz
 M/N : DWA-125
 :

	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	2461.220	27.15	6.12	35.92	99.71	97.06	54.00	-43.06	Average
2	2483.500	27.29	6.16	35.92	38.98	36.51	54.00	17.49	Average
3	2500.000	27.40	6.19	35.93	37.19	34.85	54.00	19.15	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.

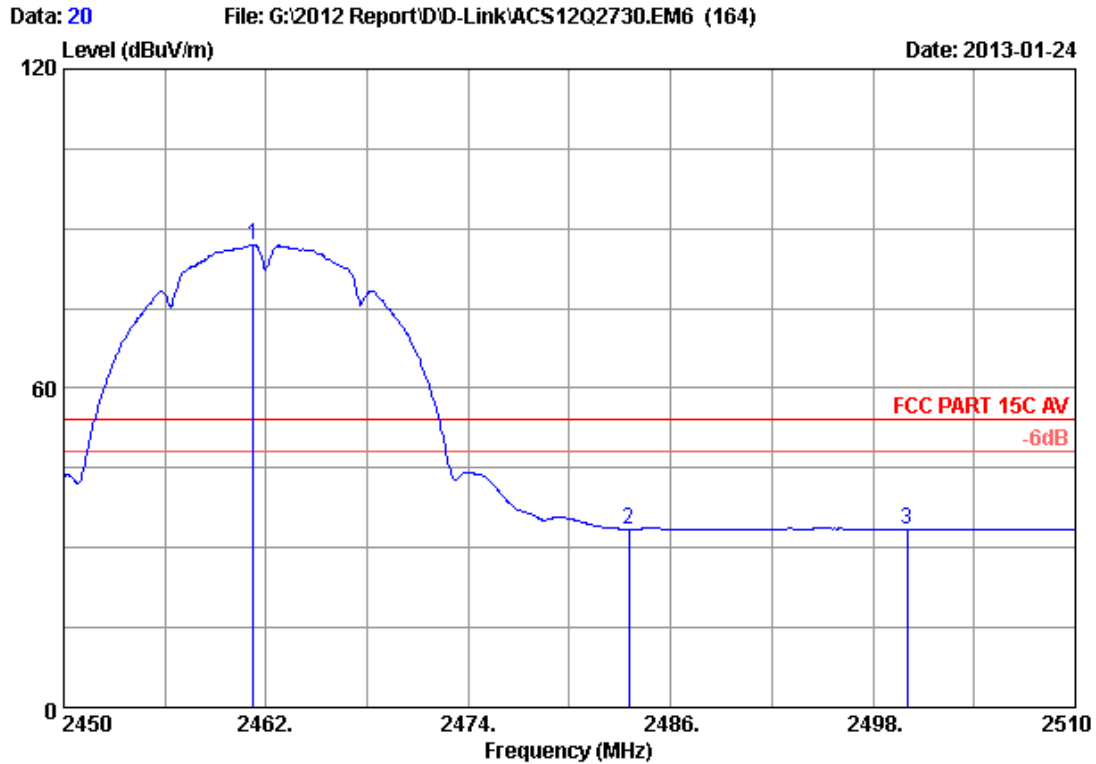


Site no. : 3m Chamber Data no. : 19
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz
 M/N : DWA-125
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.000	27.16	6.12	35.92	93.64	91.00	74.00	-17.00	Peak
2	2483.500	27.29	6.16	35.92	47.96	45.49	74.00	28.51	Peak
3	2500.000	27.40	6.19	35.93	48.39	46.05	74.00	27.95	Peak

Remarks:

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

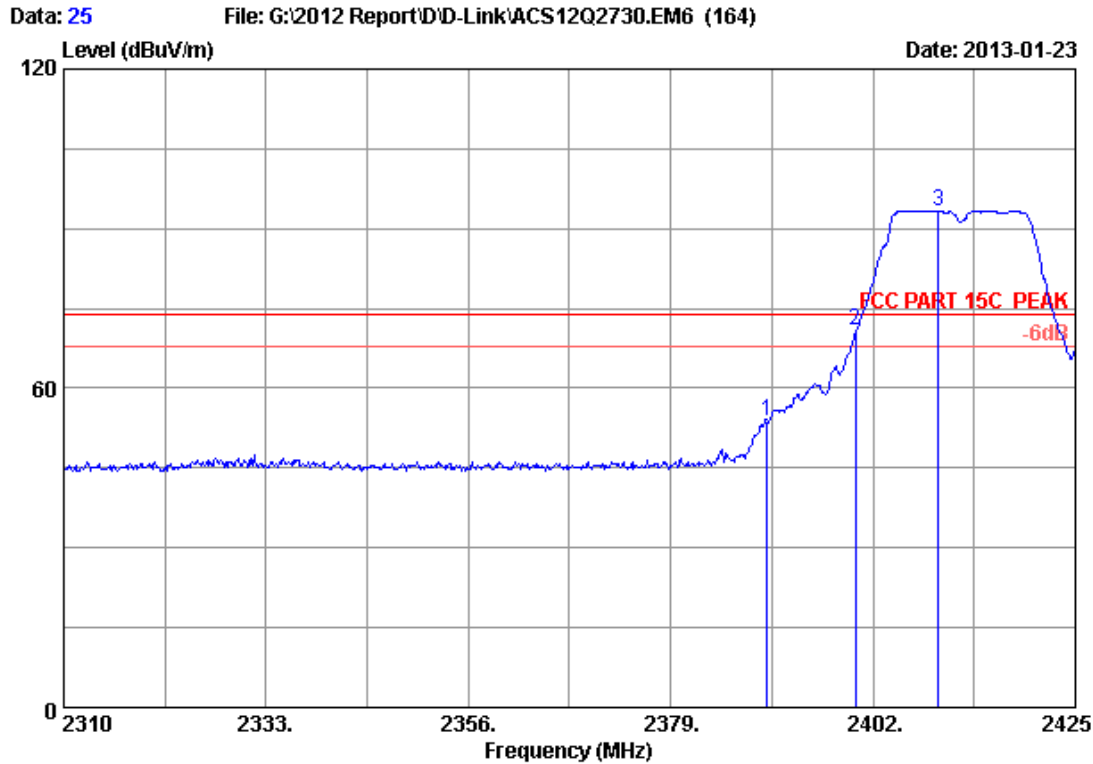


Site no. : 3m Chamber Data no. : 20
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz
 M/N : DWA-125
 :

	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	2461.220	27.15	6.12	35.92	89.63	86.98	54.00	-32.98	Average
2	2483.500	27.29	6.16	35.92	35.99	33.52	54.00	20.48	Average
3	2500.000	27.40	6.19	35.93	35.74	33.40	54.00	20.60	Average

Remarks:

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

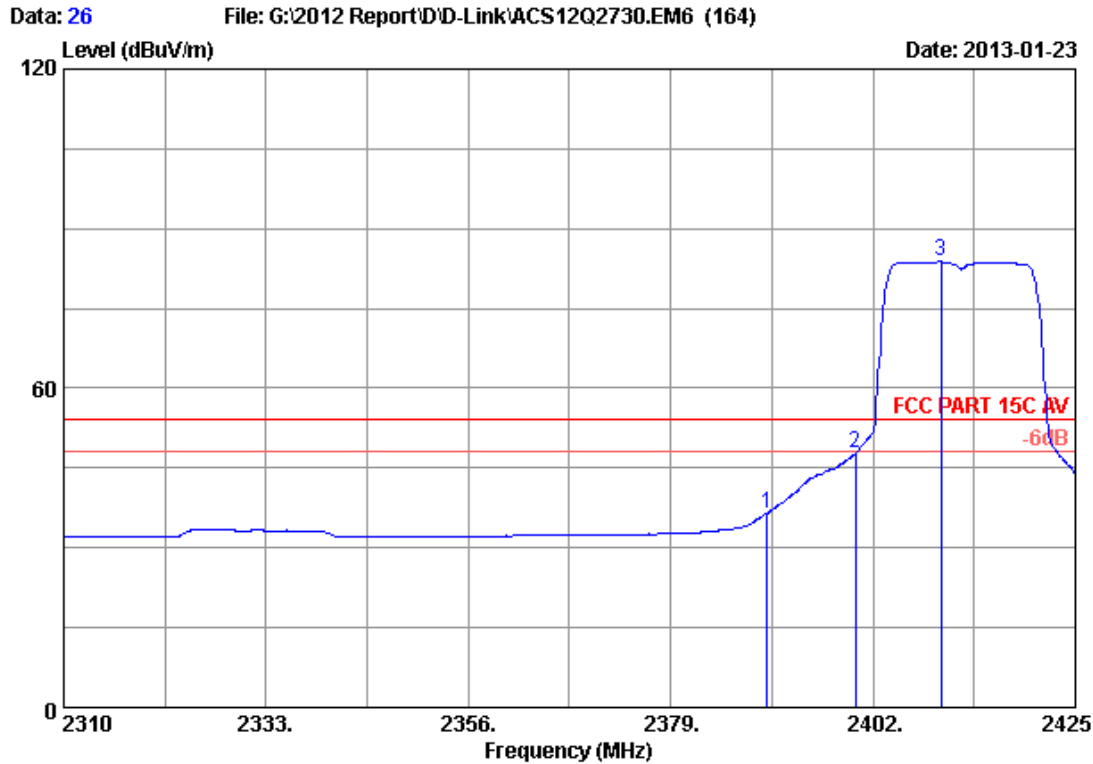


Site no. : 3m Chamber Data no. : 25
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz
 M/N : DWA-125
 :

	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	2390.000	26.70	6.00	35.92	57.17	53.95	74.00	20.05	Peak
2	2400.000	26.76	6.02	35.92	73.86	70.72	74.00	3.28	Peak
3	2409.475	26.82	6.03	35.92	96.50	93.43	74.00	-19.43	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.

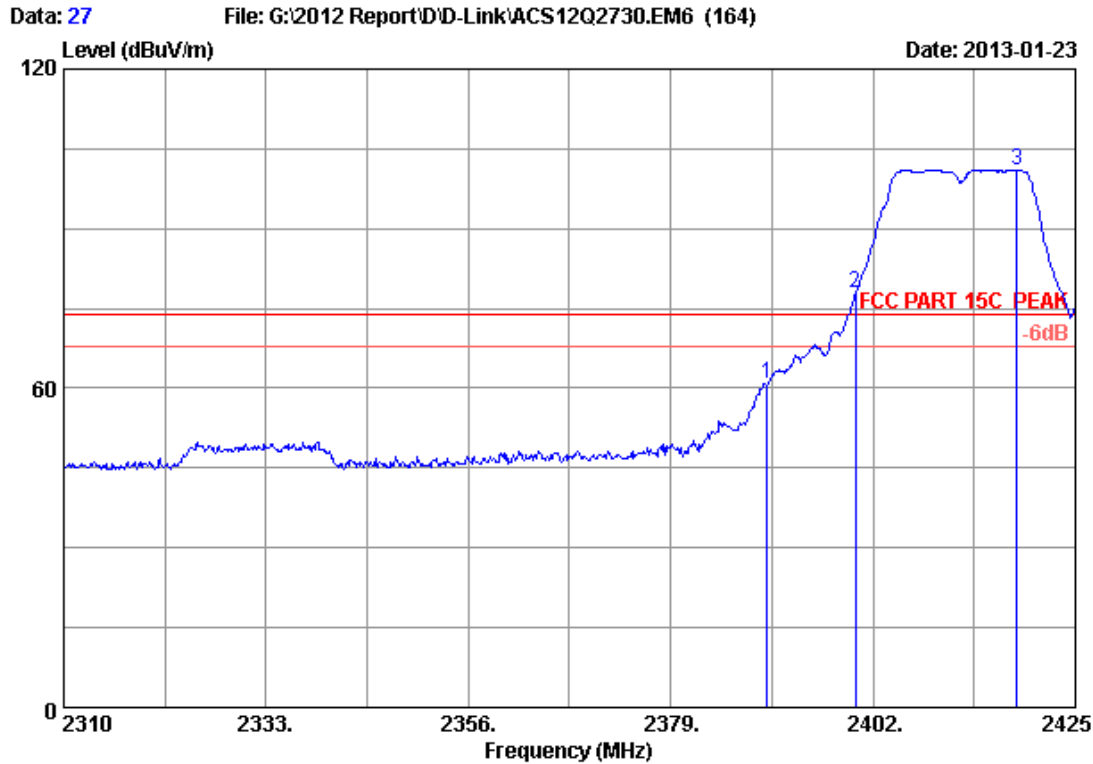


Site no. : 3m Chamber Data no. : 26
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz
 M/N : DWA-125
 :

	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	2390.000	26.70	6.00	35.92	39.81	36.59	54.00	17.41	Average
2	2400.000	26.76	6.02	35.92	50.97	47.83	54.00	6.17	Average
3	2409.705	26.82	6.03	35.92	86.83	83.76	54.00	-29.76	Average

Remarks:

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

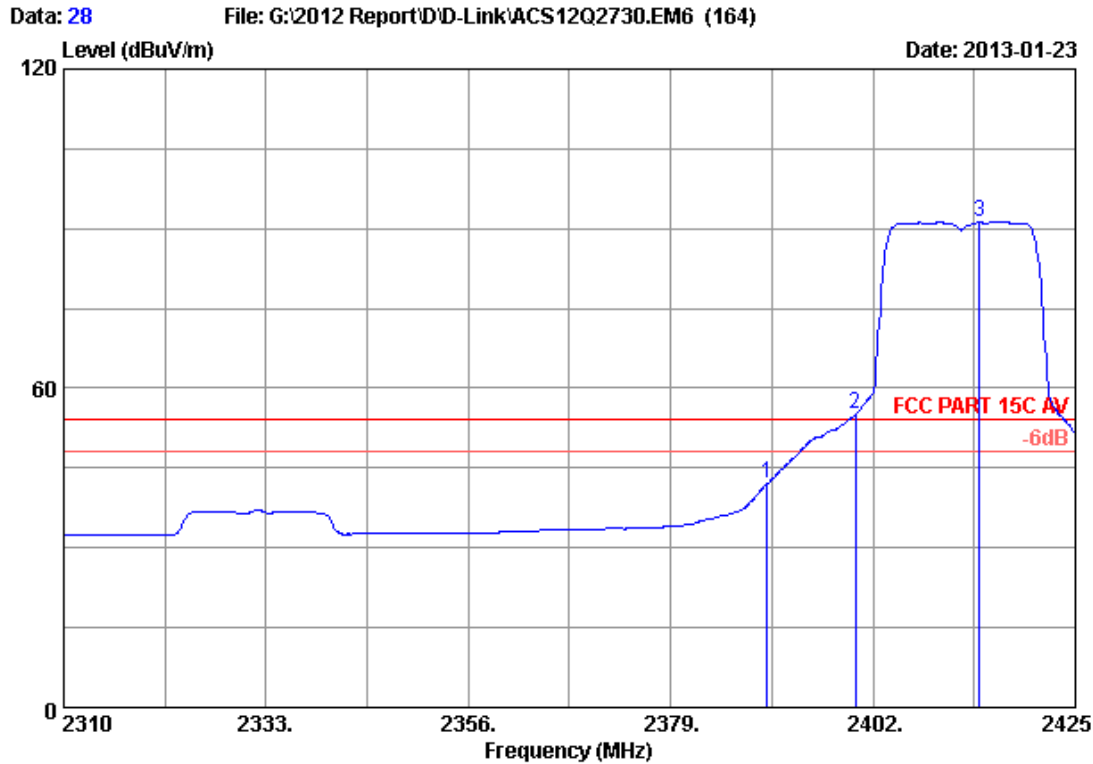


Site no. : 3m Chamber Data no. : 27
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz
 M/N : DWA-125
 :

	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	2390.000	26.70	6.00	35.92	63.95	60.73	74.00	13.27	Peak
2	2400.000	26.76	6.02	35.92	81.18	78.04	74.00	-4.04	Peak
3	2418.330	26.88	6.05	35.92	104.10	101.11	74.00	-27.11	Peak

Remarks:

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

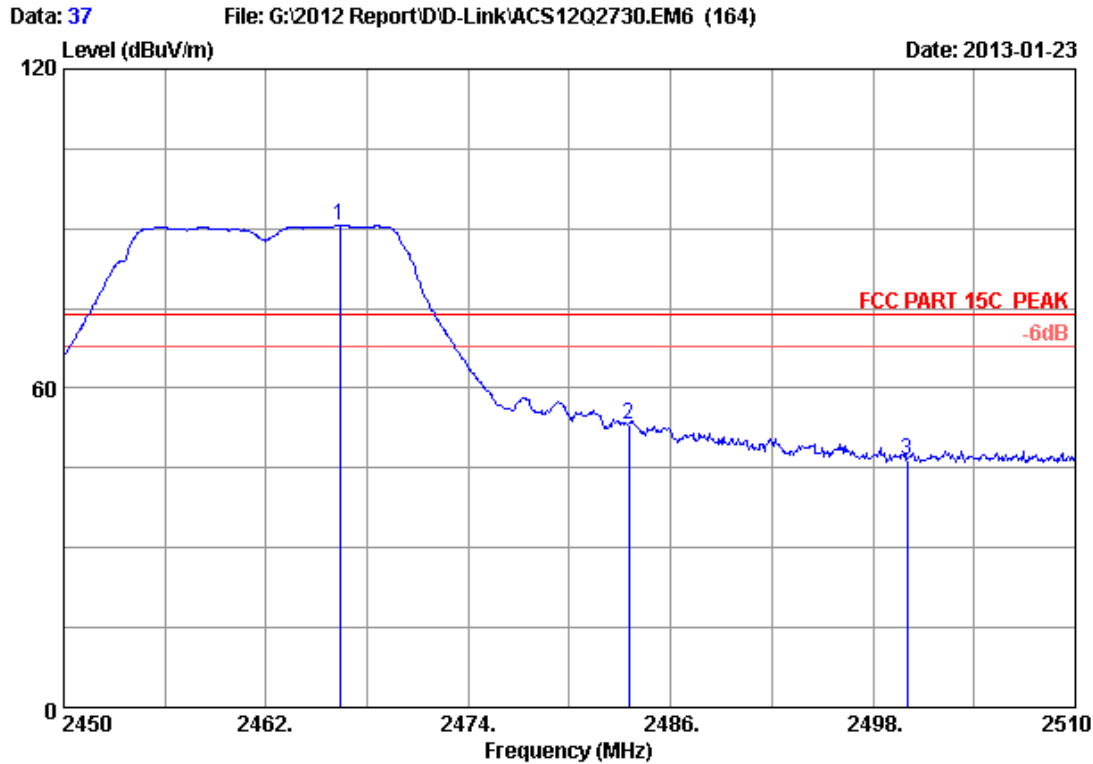


Site no. : 3m Chamber Data no. : 28
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz
 M/N : DWA-125
 :

	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	2390.000	26.70	6.00	35.92	45.34	42.12	54.00	11.88	Average
2	2400.000	26.76	6.02	35.92	58.29	55.15	54.00	-1.15	Average
3	2414.075	26.85	6.04	35.92	94.22	91.19	54.00	-37.19	Average

Remarks:

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

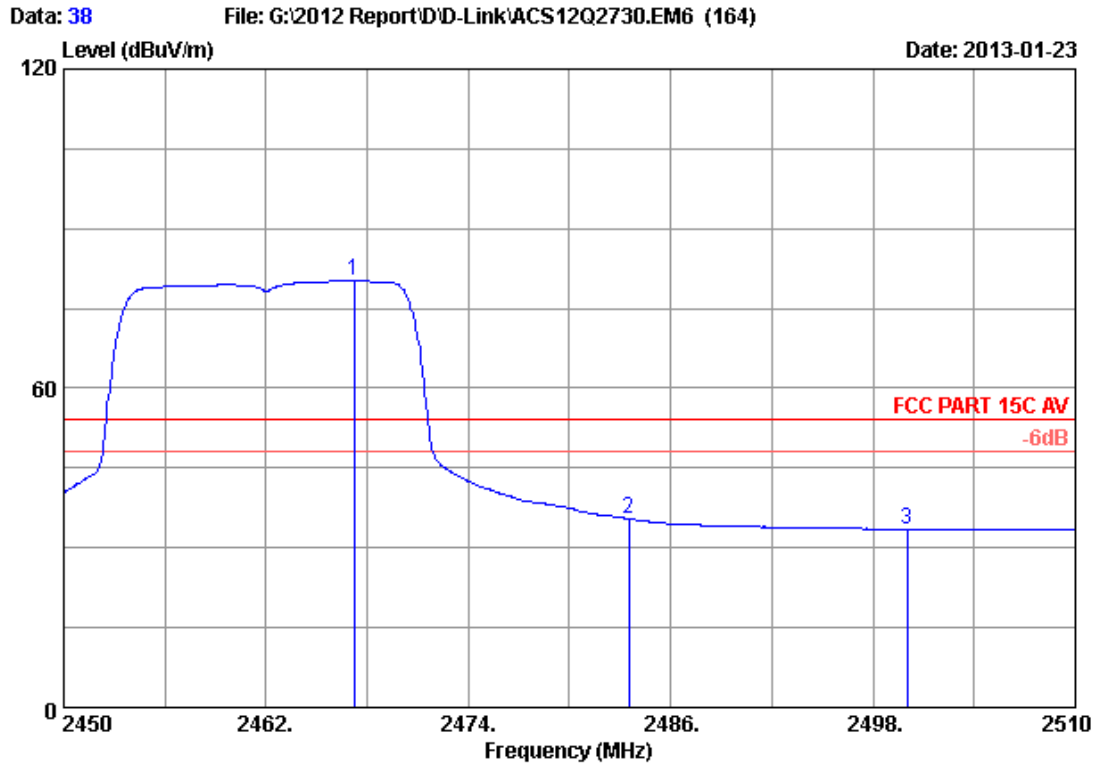


Site no. : 3m Chamber Data no. : 37
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz
 M/N : DWA-125
 :

	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	2466.380	27.18	6.13	35.92	93.22	90.61	74.00	-16.61	Peak
2	2483.500	27.29	6.16	35.92	55.75	53.28	74.00	20.72	Peak
3	2500.000	27.40	6.19	35.93	48.91	46.57	74.00	27.43	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.

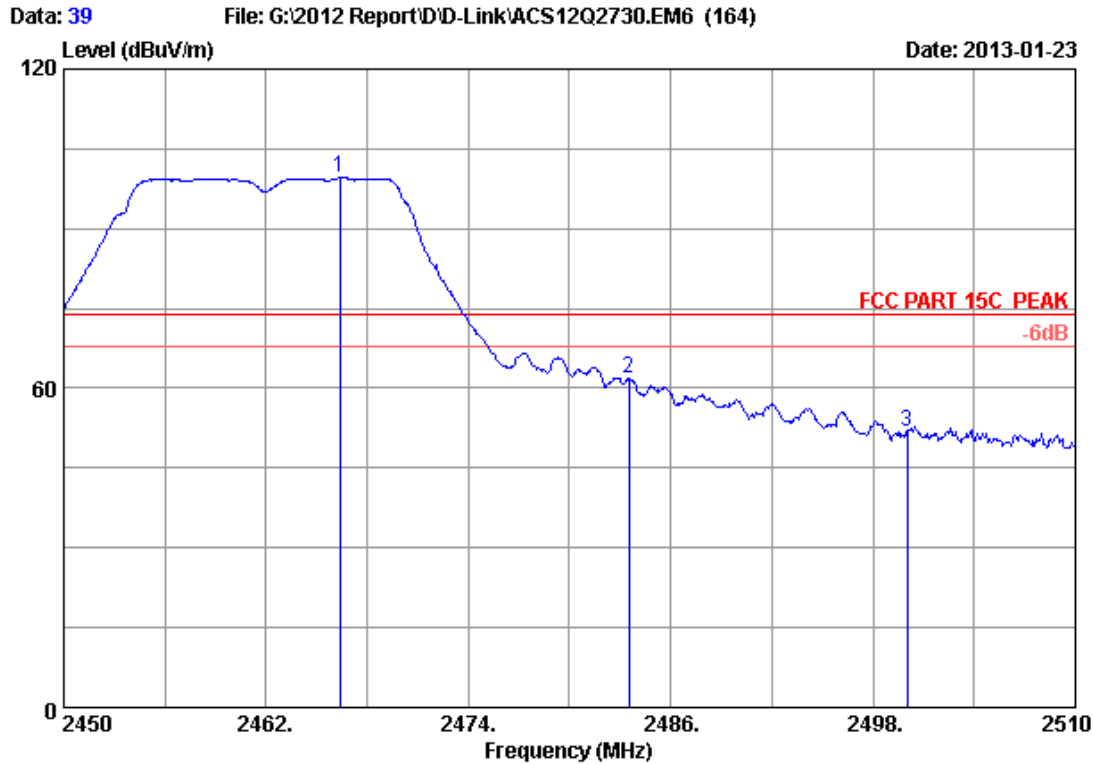


Site no. : 3m Chamber Data no. : 38
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz
 M/N : DWA-125
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2467.220	27.19	6.13	35.92	82.74	80.14	54.00	-26.14	Average
2	2483.500	27.29	6.16	35.92	37.93	35.46	54.00	18.54	Average
3	2500.000	27.40	6.19	35.93	35.85	33.51	54.00	20.49	Average

Remarks:

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

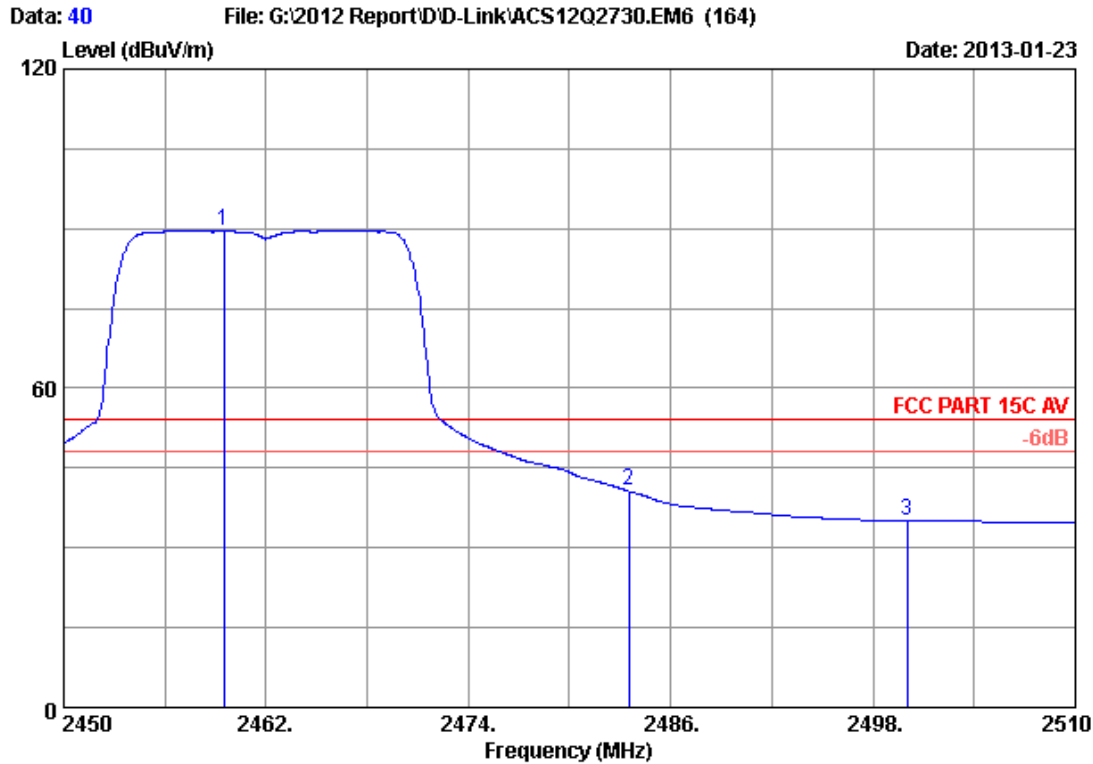


Site no. : 3m Chamber Data no. : 39
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz
 M/N : DWA-125
 :

	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	2466.380	27.18	6.13	35.92	102.15	99.54	74.00	-25.54	Peak
2	2483.500	27.29	6.16	35.92	64.27	61.80	74.00	12.20	Peak
3	2500.000	27.40	6.19	35.93	53.99	51.65	74.00	22.35	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.

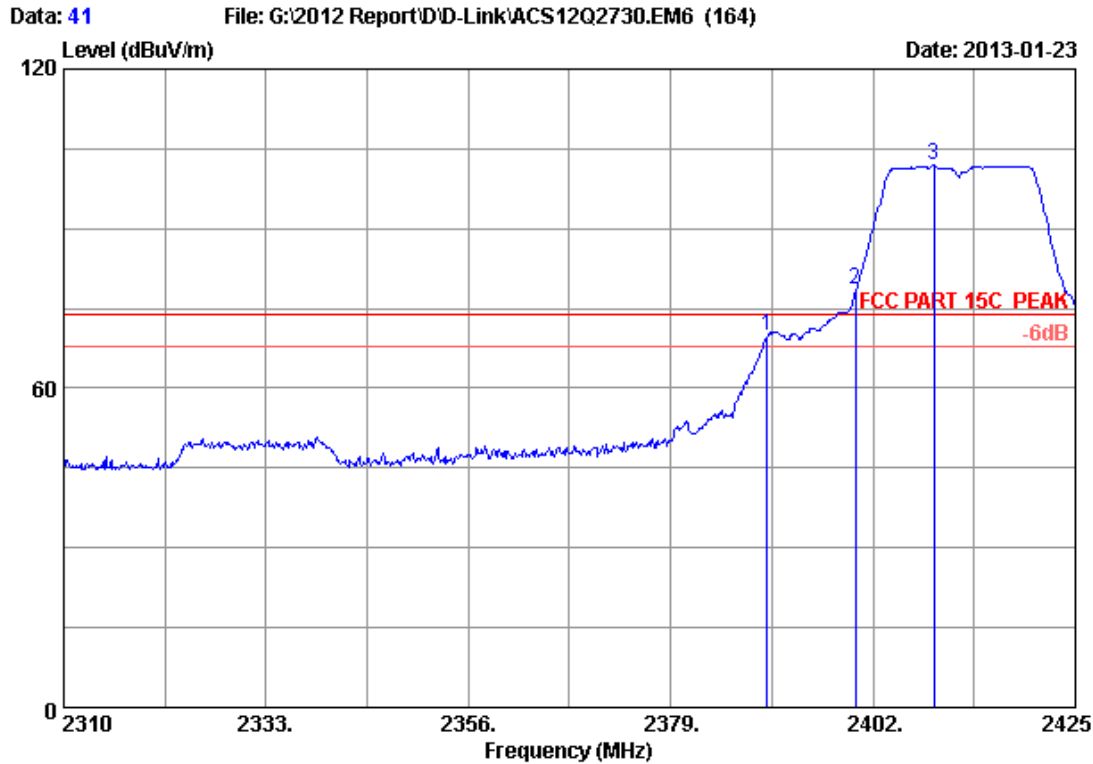


Site no. : 3m Chamber Data no. : 40
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz
 M/N : DWA-125
 :

	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	2459.480	27.14	6.12	35.92	92.31	89.65	54.00	-35.65	Average
2	2483.500	27.29	6.16	35.92	43.10	40.63	54.00	13.37	Average
3	2500.000	27.40	6.19	35.93	37.42	35.08	54.00	18.92	Average

Remarks:

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

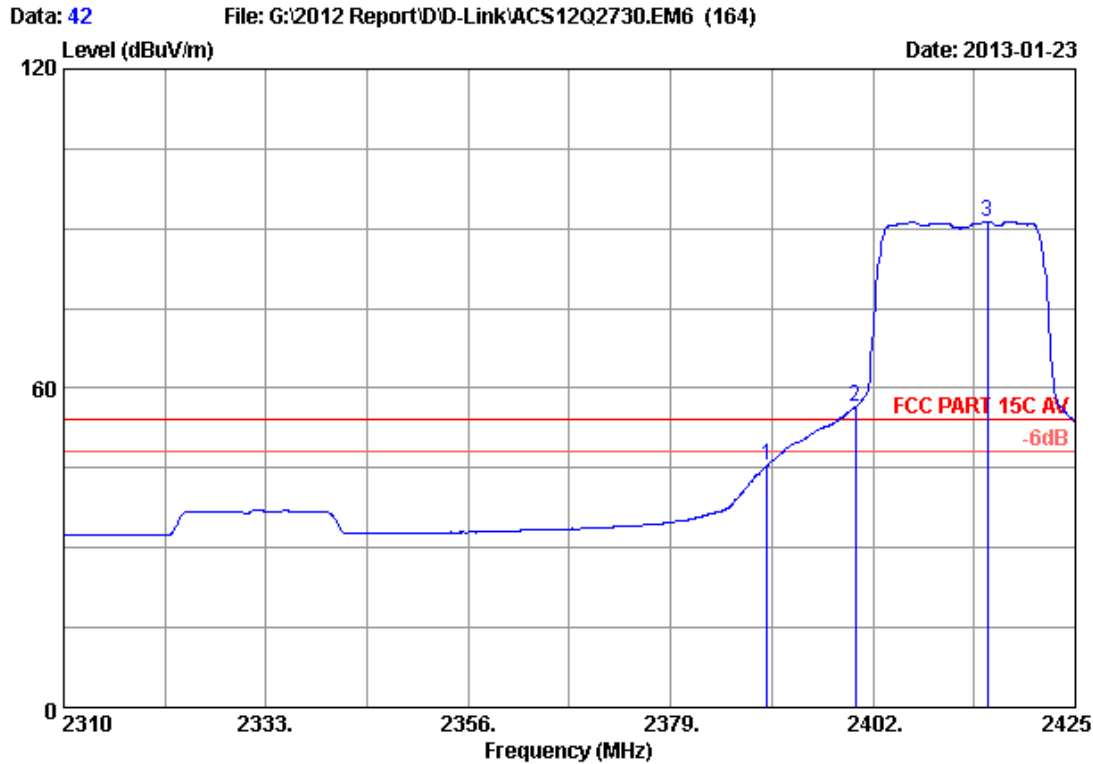


Site no. : 3m Chamber Data no. : 41
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH1 2412MHz
 M/N : DWA-125
 :

	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	2390.000	26.70	6.00	35.92	73.06	69.84	74.00	4.16	Peak
2	2400.000	26.76	6.02	35.92	81.65	78.51	74.00	-4.51	Peak
3	2408.900	26.82	6.03	35.92	104.96	101.89	74.00	-27.89	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.

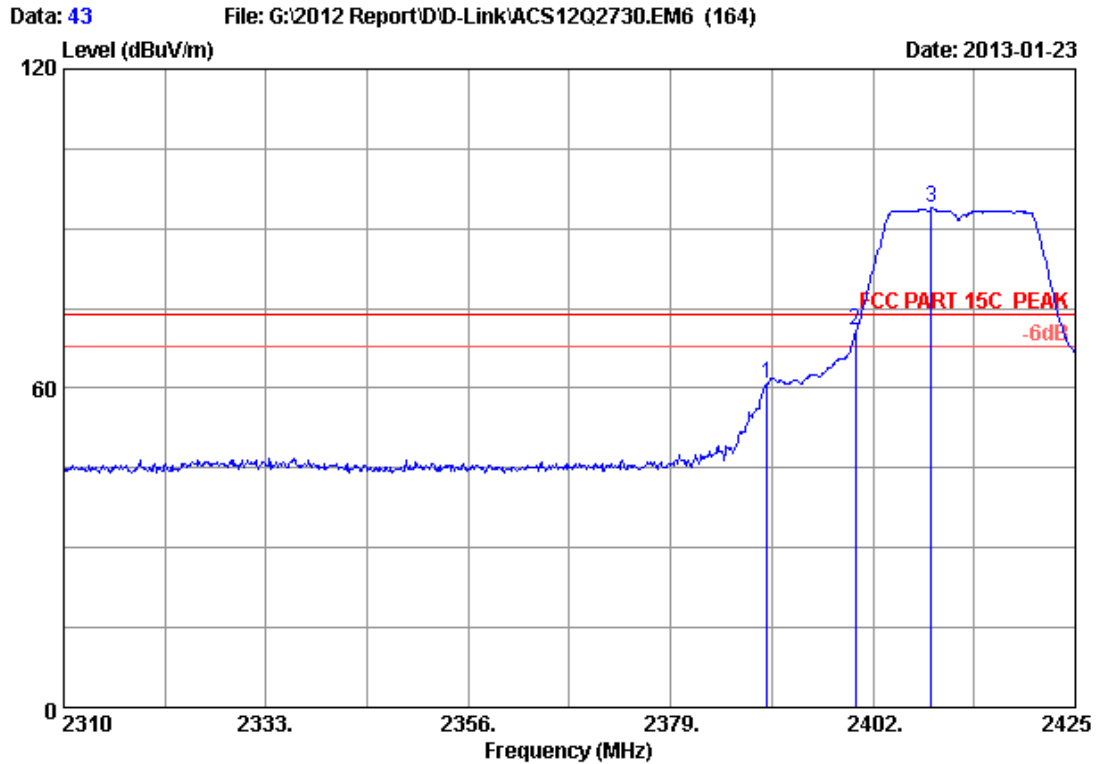


Site no. : 3m Chamber Data no. : 42
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH1 2412MHz
 M/N : DWA-125
 :

	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	2390.000	26.70	6.00	35.92	48.84	45.62	54.00	8.38	Average
2	2400.000	26.76	6.02	35.92	59.77	56.63	54.00	-2.63	Average
3	2414.995	26.86	6.04	35.92	94.39	91.37	54.00	-37.37	Average

Remarks:

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

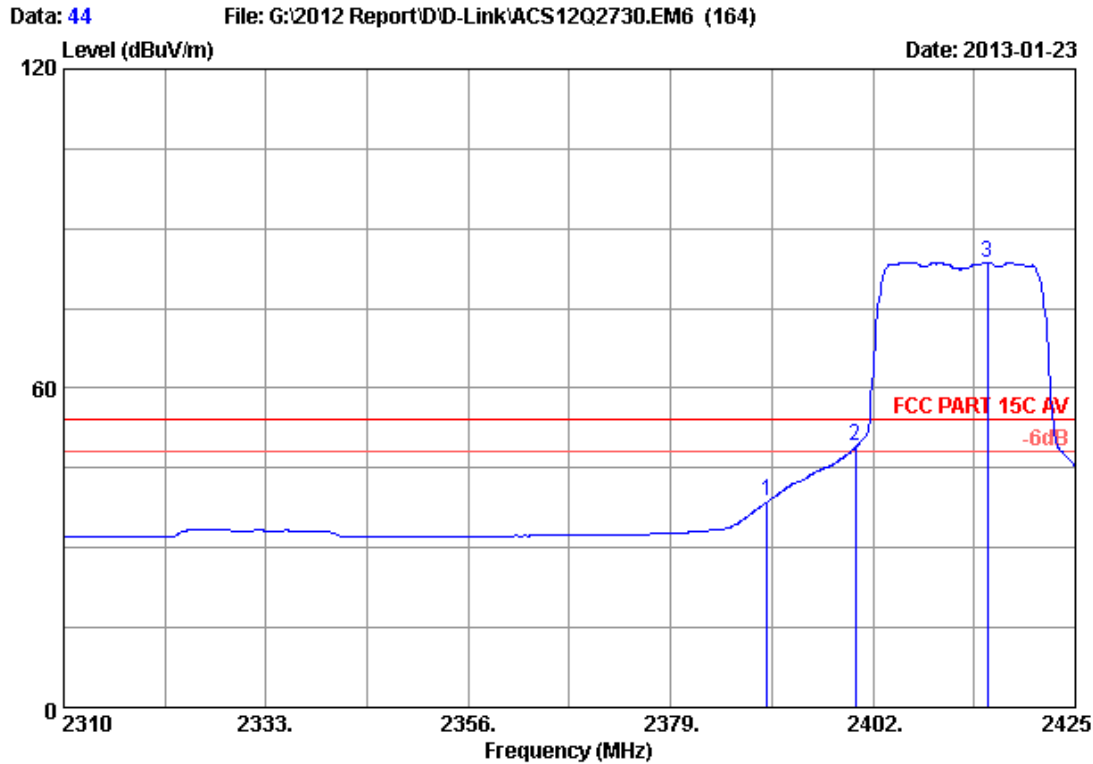


Site no. : 3m Chamber Data no. : 43
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH1 2412MHz
 M/N : DWA-125
 :

	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	2390.000	26.70	6.00	35.92	64.20	60.98	74.00	13.02	Peak
2	2400.000	26.76	6.02	35.92	73.89	70.75	74.00	3.25	Peak
3	2408.670	26.82	6.03	35.92	96.89	93.82	74.00	-19.82	Peak

Remarks:

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

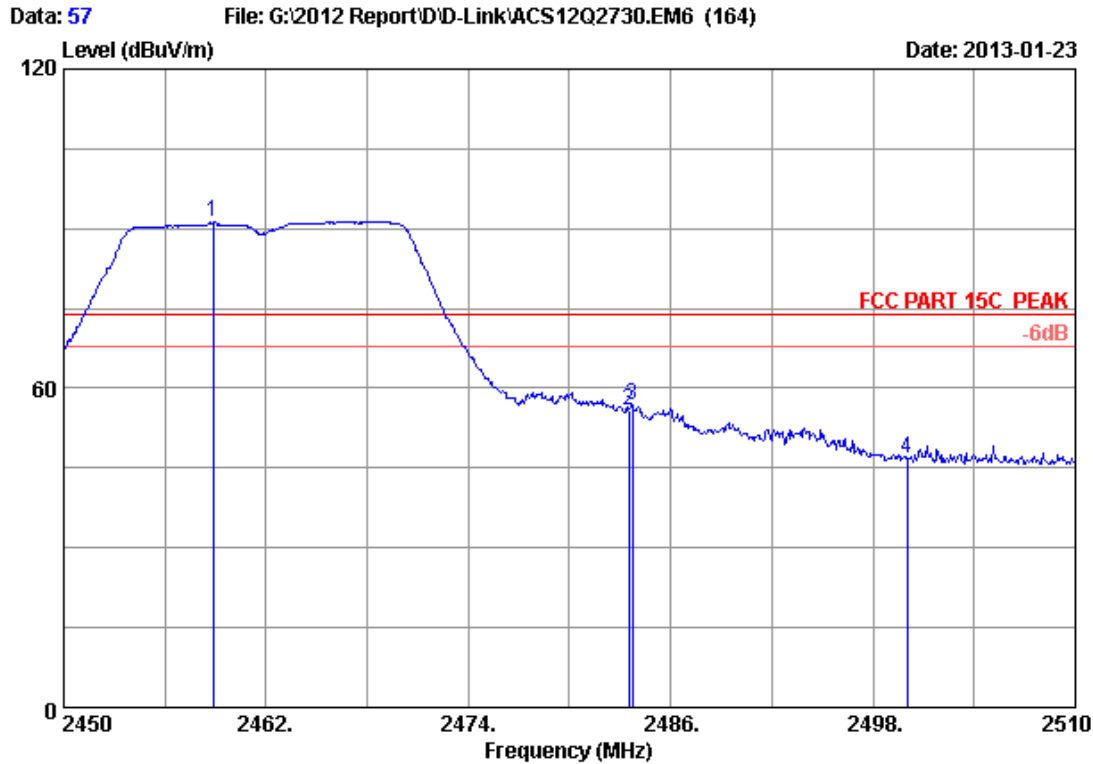


Site no. : 3m Chamber Data no. : 44
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH1 2412MHz
 M/N : DWA-125
 :

	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	2390.000	26.70	6.00	35.92	41.94	38.72	54.00	15.28	Peak
2	2400.000	26.76	6.02	35.92	52.14	49.00	54.00	5.00	Peak
3	2414.995	26.86	6.04	35.92	86.64	83.62	54.00	-29.62	Peak

Remarks:

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

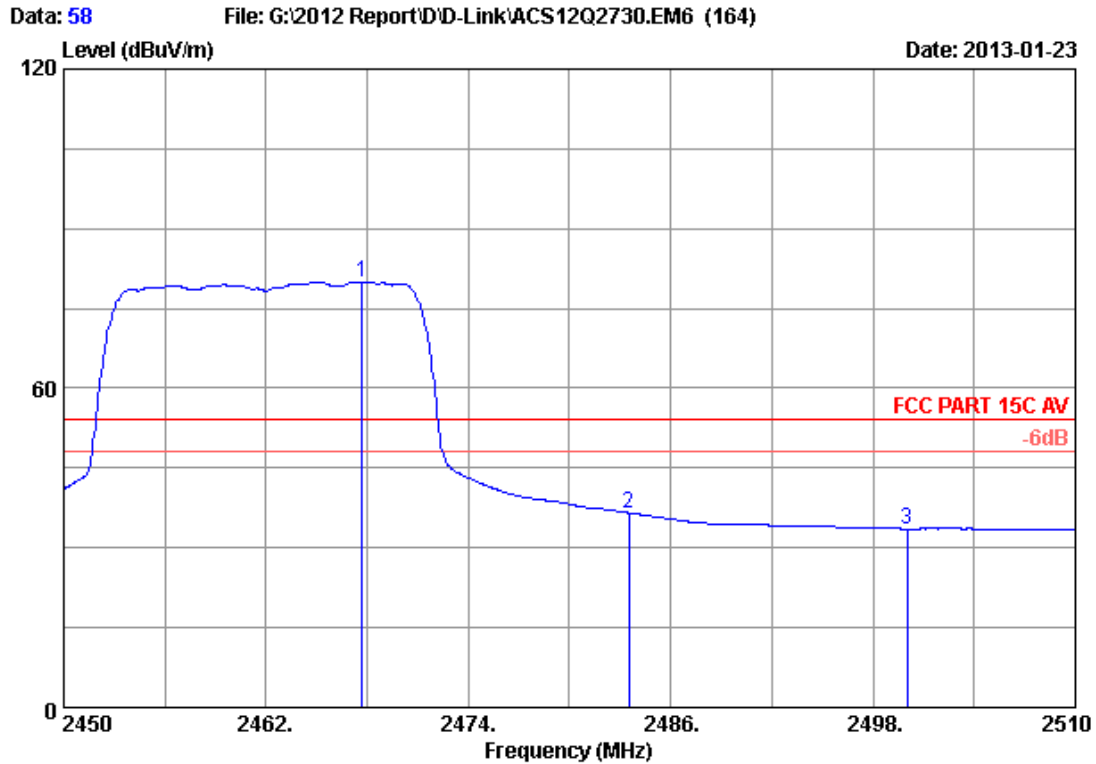


Site no. : 3m Chamber Data no. : 57
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH11 2462MHz
 M/N : DWA-125
 :

	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	2458.880	27.14	6.12	35.92	93.91	91.25	74.00	-17.25	Peak
2	2483.500	27.29	6.16	35.92	58.15	55.68	74.00	18.32	Peak
3	2483.720	27.30	6.16	35.92	59.36	56.90	74.00	17.10	Peak
4	2500.000	27.40	6.19	35.93	49.08	46.74	74.00	27.26	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.

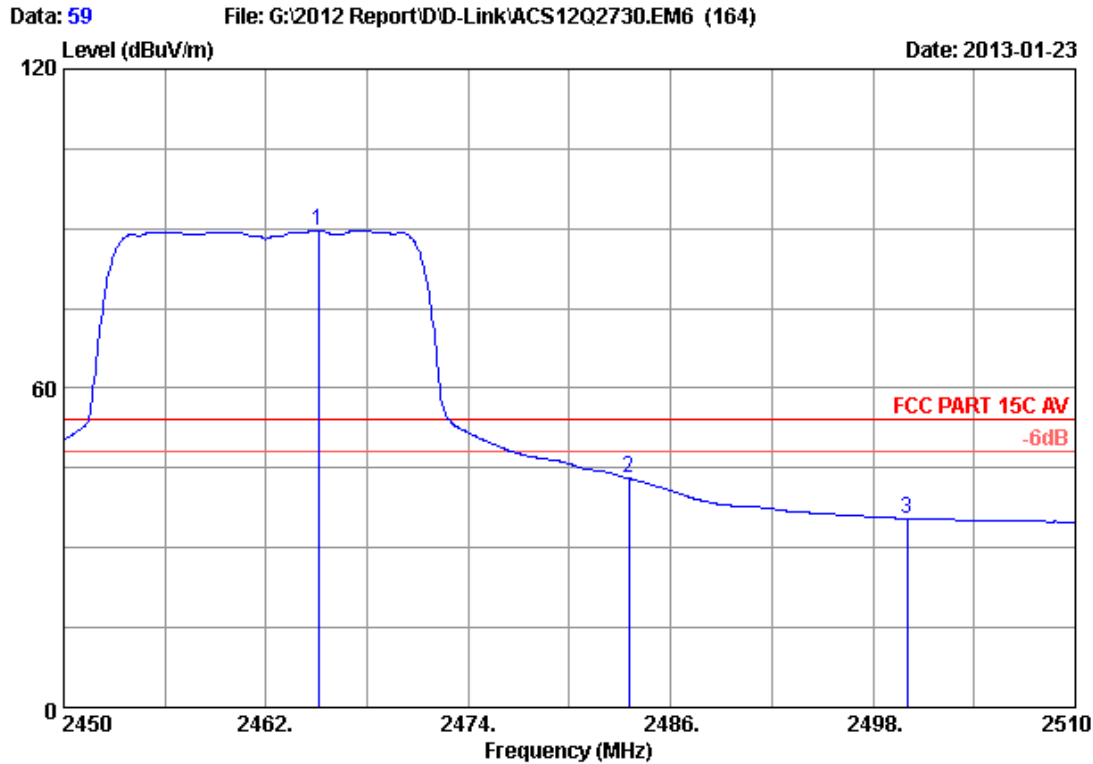


Site no. : 3m Chamber Data no. : 58
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH11 2462MHz
 M/N : DWA-125
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2467.700	27.19	6.13	35.92	82.60	80.00	54.00	-26.00	Average
2	2483.500	27.29	6.16	35.92	39.04	36.57	54.00	17.43	Average
3	2500.000	27.40	6.19	35.93	35.92	33.58	54.00	20.42	Average

Remarks:

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

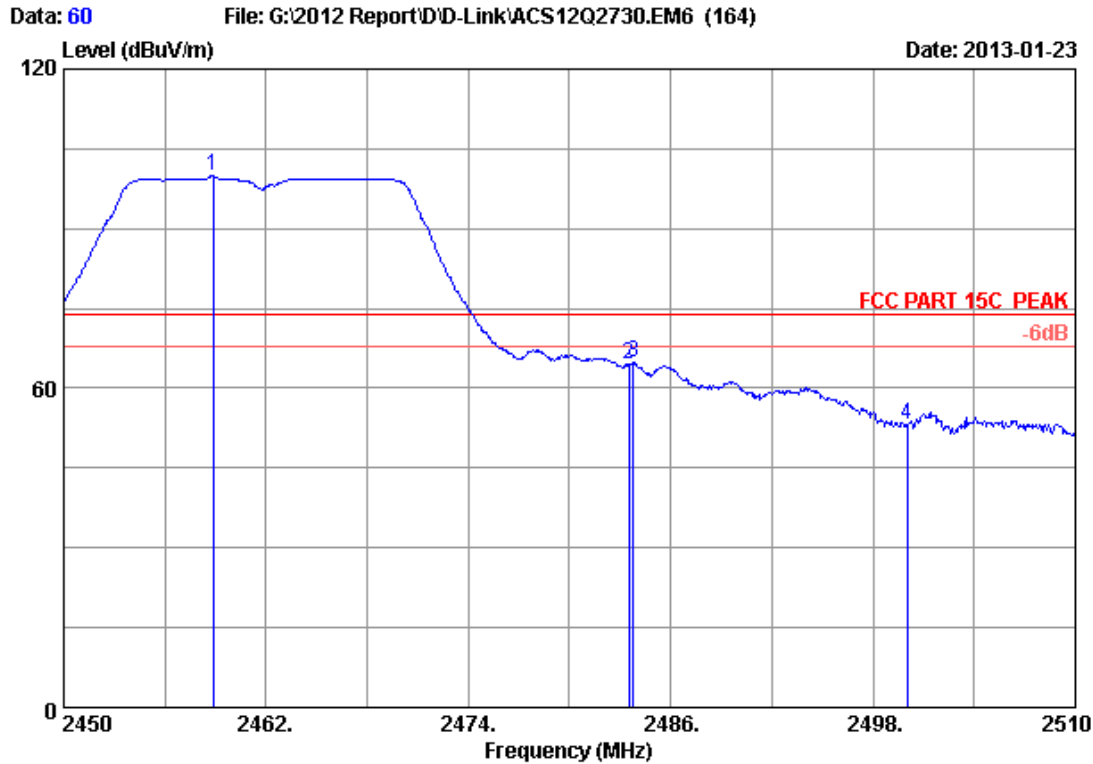


Site no. : 3m Chamber Data no. : 59
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH11 2462MHz
 M/N : DWA-125
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2465.120	27.18	6.13	35.92	92.32	89.71	54.00	-35.71	Average
2	2483.500	27.29	6.16	35.92	45.50	43.03	54.00	10.97	Average
3	2500.000	27.40	6.19	35.93	37.91	35.57	54.00	18.43	Average

Remarks:

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

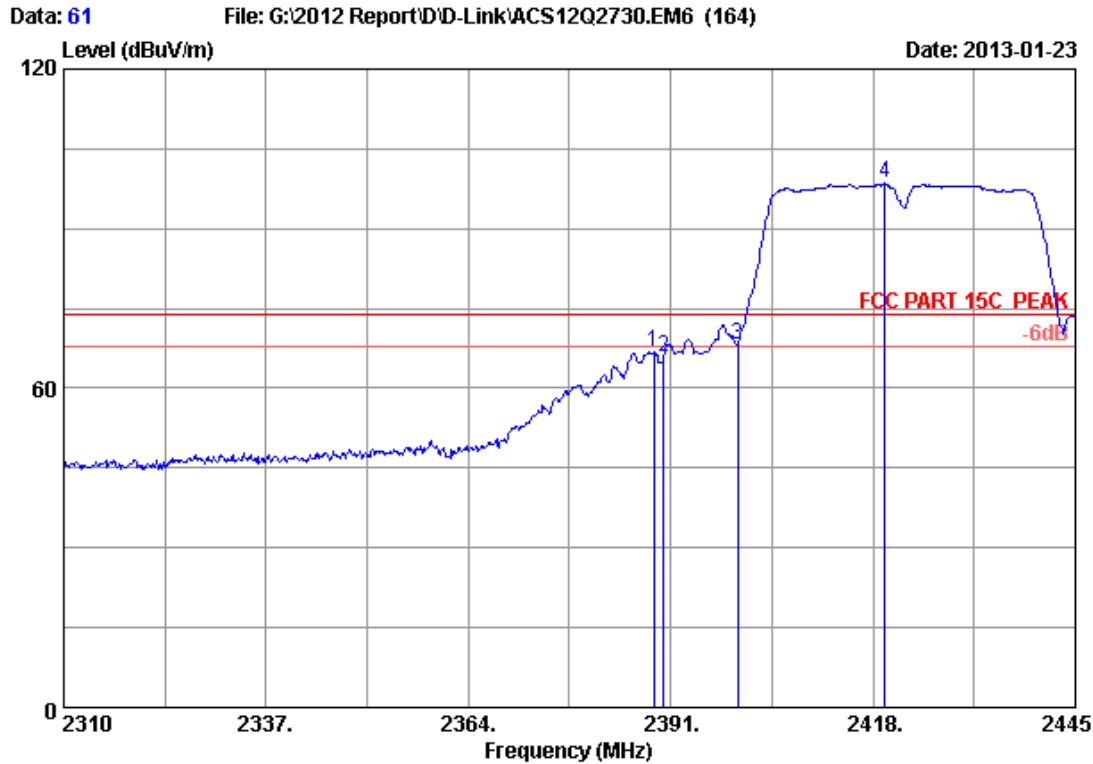


Site no. : 3m Chamber Data no. : 60
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH11 2462MHz
 M/N : DWA-125
 :

	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	2458.880	27.14	6.12	35.92	102.52	99.86	74.00	-25.86	Peak
2	2483.500	27.29	6.16	35.92	66.85	64.38	74.00	9.62	Peak
3	2483.780	27.30	6.16	35.92	67.28	64.82	74.00	9.18	Peak
4	2500.000	27.40	6.19	35.93	55.65	53.31	74.00	20.69	Peak

Remarks:

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

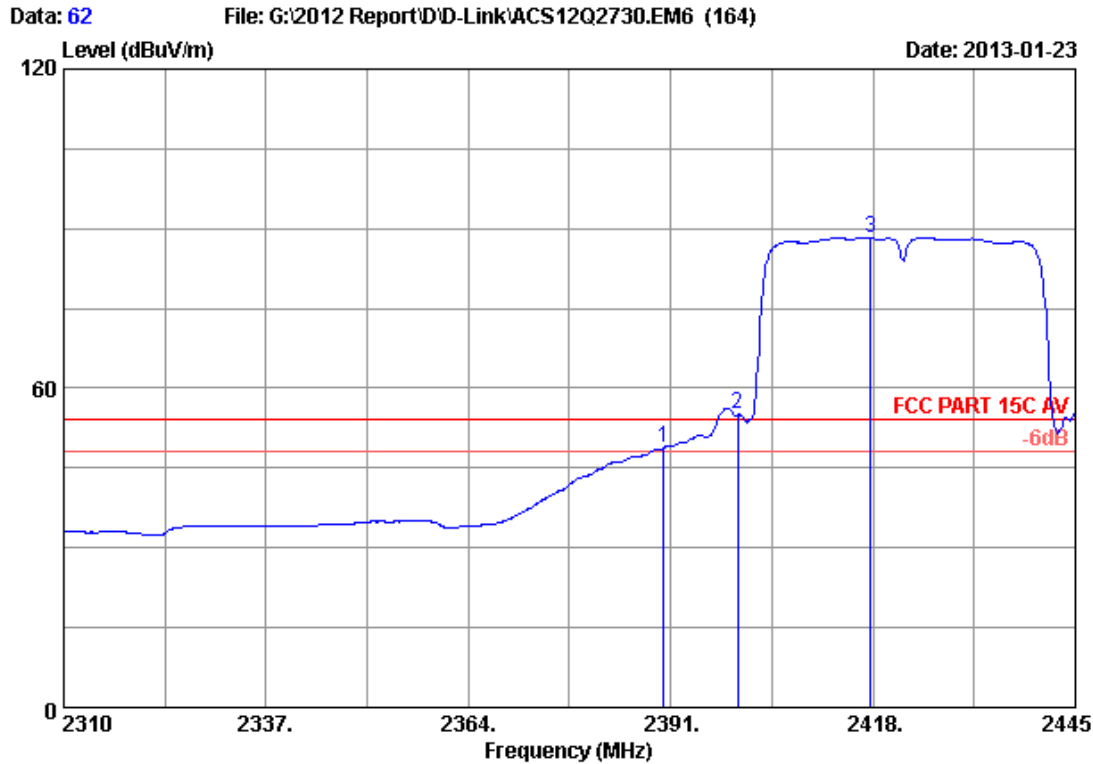


Site no. : 3m Chamber Data no. : 61
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH1 2422MHz
 M/N : DWA-125
 :

	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	2388.705	26.69	6.00	35.92	70.11	66.88	74.00	7.12	Peak
2	2390.000	26.70	6.00	35.92	69.19	65.97	74.00	8.03	Peak
3	2400.000	26.76	6.02	35.92	71.37	68.23	74.00	5.77	Peak
4	2419.620	26.89	6.05	35.92	101.43	98.45	74.00	-24.45	Peak

Remarks:

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

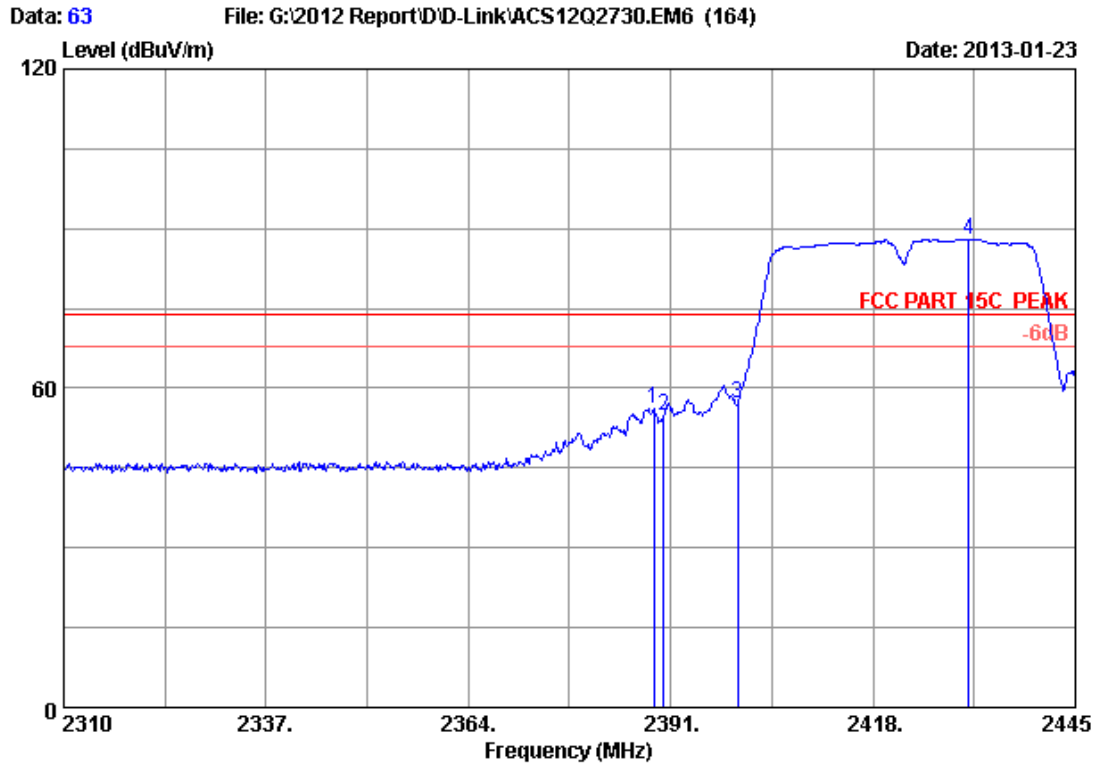


Site no. : 3m Chamber Data no. : 62
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH1 2422MHz
 M/N : DWA-125
 :

	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	2390.000	26.70	6.00	35.92	52.05	48.83	54.00	5.17	Average
2	2400.000	26.76	6.02	35.92	58.14	55.00	54.00	-1.00	Average
3	2417.730	26.87	6.05	35.92	91.18	88.18	54.00	-34.18	Average

Remarks:

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

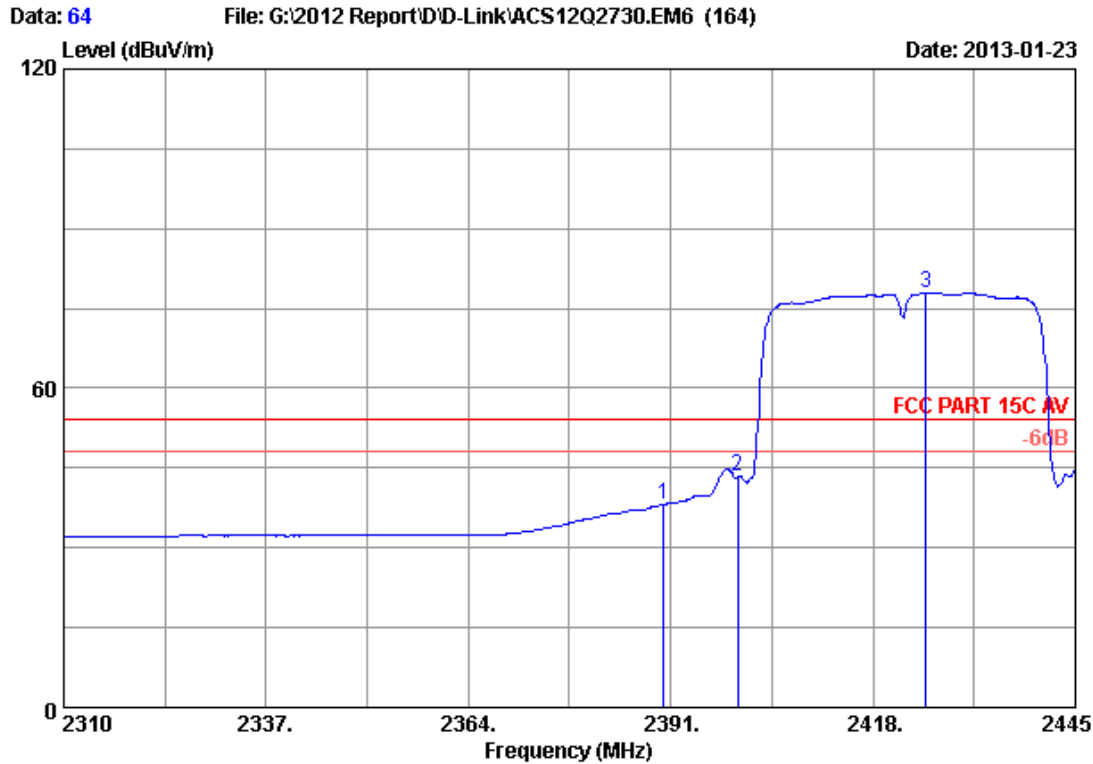


Site no. : 3m Chamber Data no. : 63
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH1 2422MHz
 M/N : DWA-125
 :

	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	2388.705	26.69	6.00	35.92	59.52	56.29	74.00	17.71	Peak
2	2390.000	26.70	6.00	35.92	58.00	54.78	74.00	19.22	Peak
3	2400.000	26.76	6.02	35.92	60.32	57.18	74.00	16.82	Peak
4	2430.825	26.96	6.07	35.92	90.86	87.97	74.00	-13.97	Peak

Remarks:

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

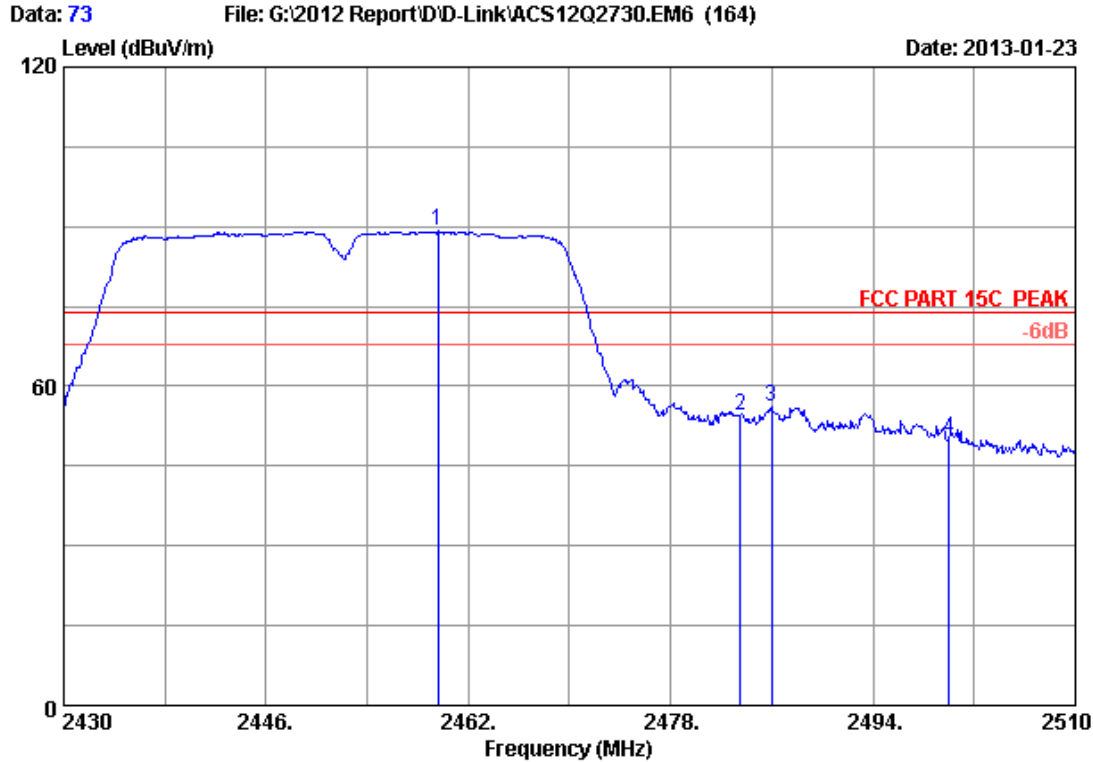


Site no. : 3m Chamber Data no. : 64
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH1 2422MHz
 M/N : DWA-125
 :

	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	2390.000	26.70	6.00	35.92	41.36	38.14	54.00	15.86	Average
2	2400.000	26.76	6.02	35.92	46.54	43.40	54.00	10.60	Average
3	2425.020	26.92	6.06	35.92	80.76	77.82	54.00	-23.82	Average

Remarks:

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

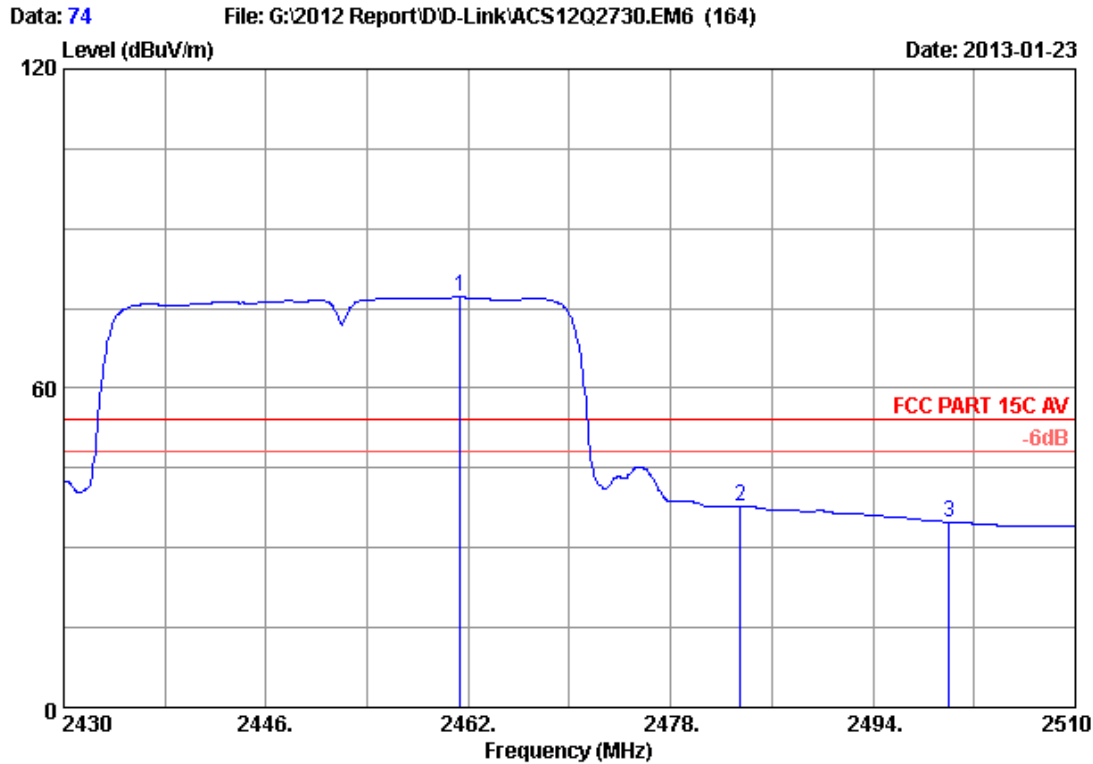


Site no. : 3m Chamber Data no. : 73
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH7 2452MHz
 M/N : DWA-125
 :

	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	2459.600	27.14	6.12	35.92	91.75	89.09	74.00	-15.09	Peak
2	2483.500	27.29	6.16	35.92	57.02	54.55	74.00	19.45	Peak
3	2486.000	27.31	6.16	35.92	58.76	56.31	74.00	17.69	Peak
4	2500.000	27.40	6.19	35.93	52.34	50.00	74.00	24.00	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.

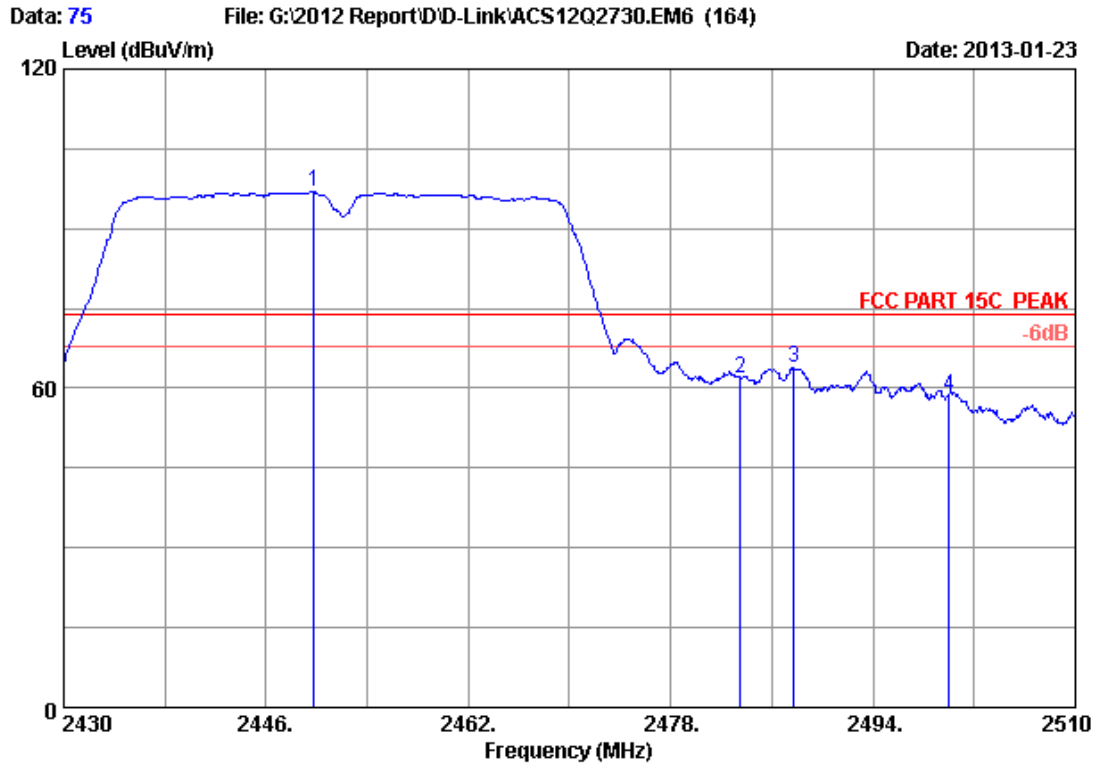


Site no. : 3m Chamber Data no. : 74
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH7 2452MHz
 M/N : DWA-125
 :

	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	2461.360	27.15	6.12	35.92	79.76	77.11	54.00	-23.11	Average
2	2483.500	27.29	6.16	35.92	40.20	37.73	54.00	16.27	Average
3	2500.000	27.40	6.19	35.93	37.16	34.82	54.00	19.18	Average

Remarks:

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



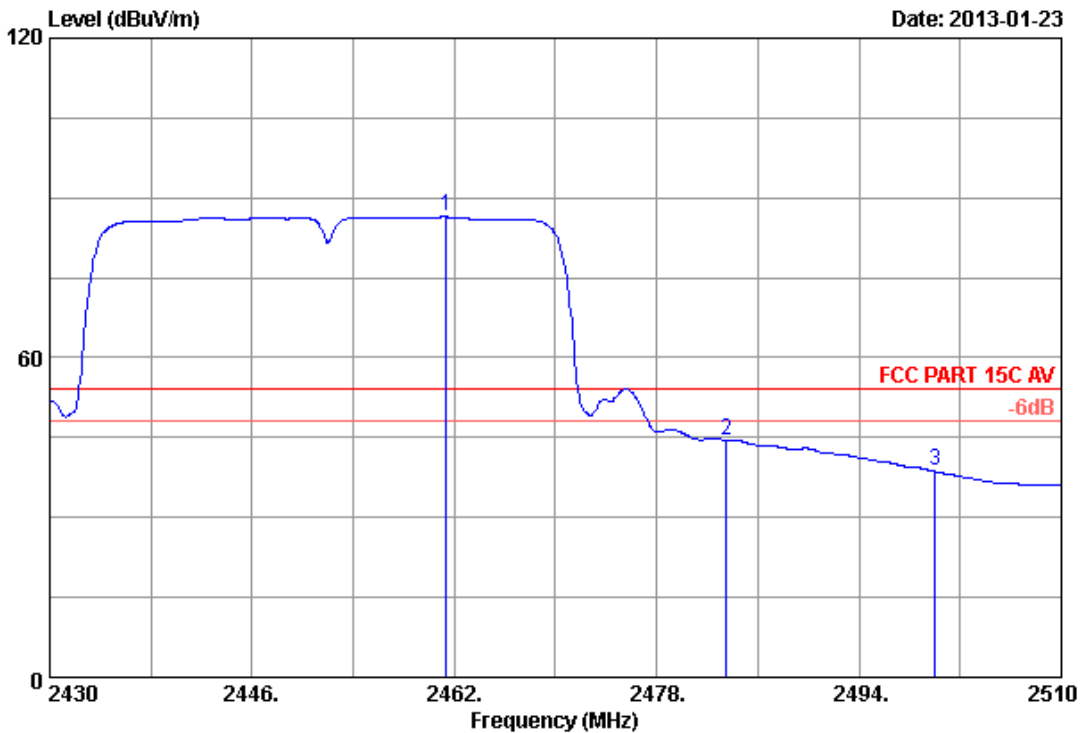
Site no. : 3m Chamber Data no. : 75
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH7 2452MHz
 M/N : DWA-125
 :

	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	2449.760	27.08	6.10	35.92	99.67	96.93	74.00	-22.93	Peak
2	2483.500	27.29	6.16	35.92	64.44	61.97	74.00	12.03	Peak
3	2487.760	27.32	6.17	35.92	66.18	63.75	74.00	10.25	Peak
4	2500.000	27.40	6.19	35.93	60.97	58.63	74.00	15.37	Peak

Remarks:

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

Data: 76 File: G:\2012 Report\D'D-Link\ACS12Q2730.EM6 (164) Date: 2013-01-23



Site no. : 3m Chamber Data no. : 76
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 20°C/49% Engineer : Tony_yan
 EUT : WIRELESS N 150 USB ADAPTER
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH7 2452MHz
 M/N : DWA-125
 :

	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	2461.360	27.15	6.12	35.92	89.08	86.43	54.00	-32.43	Average
2	2483.500	27.29	6.16	35.92	47.05	44.58	54.00	9.42	Average
3	2500.000	27.40	6.19	35.93	40.96	38.62	54.00	15.38	Average

Remarks:

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

7. 6dB Bandwidth Test

7.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	May.08, 12	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 12	1 Year
3.	Antenna	EMCO	3115	9510-4580	May.08, 12	1Year
4.	HF Cable	Hubersuhner	Sucoflex104	-	May.08, 12	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: WIRELESS N 150 USB ADAPTER		
M/N: DWA-125		
Test date:2013-01-25	Pressure: 101.3 kpa	Humidity: 52.3±3.0%
Tested by: Leo-Li	Test site: RF Site	Temperature : 24.2±0.6 °C

Test Mode	CH	Cable loss: 1 dB		Attenuator loss: 20 dB	
		6dB bandwidth (MHz)	Limit (KHz)	6dB bandwidth (MHz)	Limit (KHz)
11b	CH1	10.187	>500	10.187	>500
	CH6	10.187	>500	10.187	>500
	CH11	10.191	>500	10.191	>500
11g	CH1	16.466	>500	16.466	>500
	CH6	16.455	>500	16.455	>500
	CH11	16.473	>500	16.473	>500
11n HT20	CH1	17.755	>500	17.755	>500
	CH6	17.786	>500	17.786	>500
	CH11	17.841	>500	17.841	>500
11n HT40	CH1	36.139	>500	36.139	>500
	CH4	36.112	>500	36.112	>500
	CH7	36.079	>500	36.079	>500
Conclusion : PASS					

Test Mode: IEEE 802.11b TX
 Test CH1: 2412MHz

Agilent

Freq/Channel
 Center Freq 2.41200000 GHz
 Start Freq 2.39700000 GHz
 Stop Freq 2.42700000 GHz
 CF Step 3.00000000 MHz
 Auto Man
 Freq Offset 0.00000000 Hz
 Signal Track On Off

Ch Freq 2.412 GHz Trig Free

Occupied Bandwidth

Center 2.412000000 GHz

Ref 31 dBm Atten 20 dB

Center 2.412 00 GHz Span 30 MHz
 #Res BW 100 kHz #VBW 300 kHz Sweep 1 ms (601 pts)

Occupied Bandwidth	Occ BW % Pwr	99.00 %
14.9367 MHz	x dB	-6.00 dB
Transmit Freq Error	17.874 kHz	
x dB Bandwidth	10.187 MHz	

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Test CH6: 2437MHz

Agilent

Freq/Channel
 Center Freq 2.43700000 GHz
 Start Freq 2.42200000 GHz
 Stop Freq 2.45200000 GHz
 CF Step 3.00000000 MHz
 Auto Man
 Freq Offset 0.00000000 Hz
 Signal Track On Off

Ch Freq 2.437 GHz Trig Free

Occupied Bandwidth

Center 2.437000000 GHz

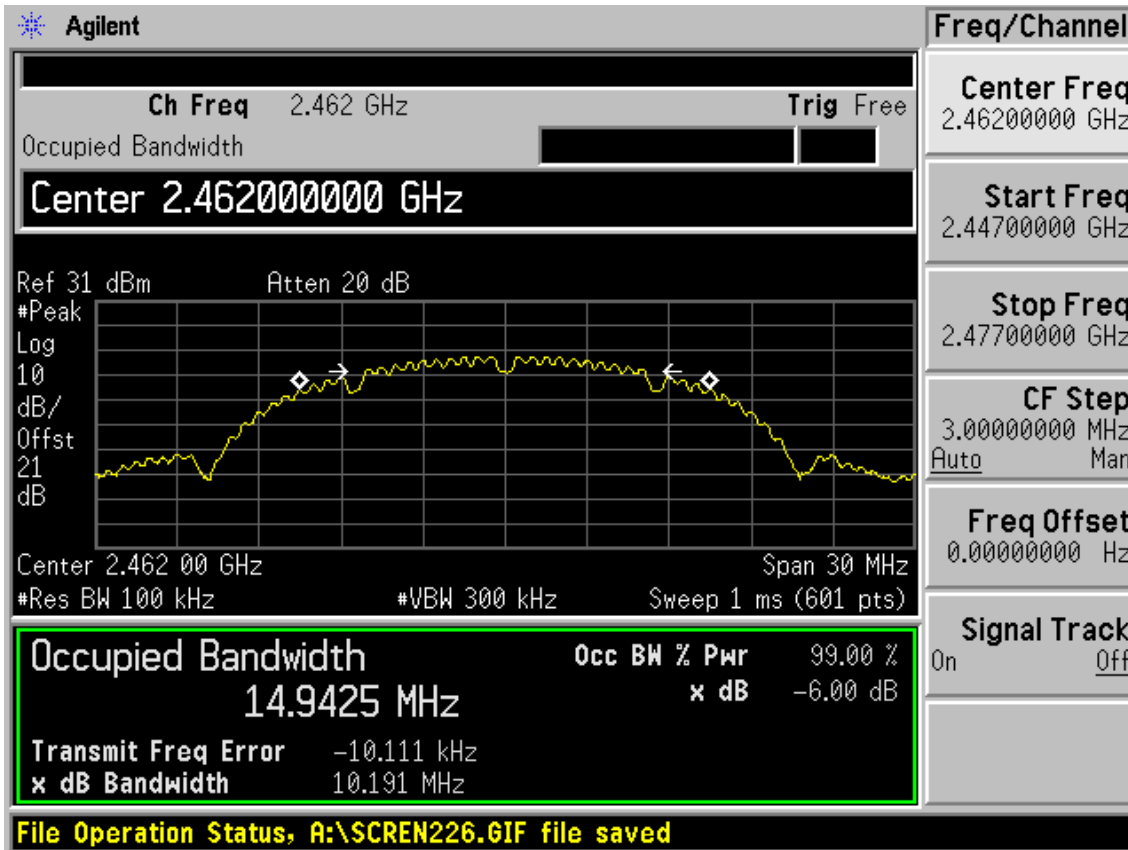
Ref 31 dBm Atten 20 dB

Center 2.437 00 GHz Span 30 MHz
 #Res BW 100 kHz #VBW 300 kHz Sweep 1 ms (601 pts)

Occupied Bandwidth	Occ BW % Pwr	99.00 %
14.9192 MHz	x dB	-6.00 dB
Transmit Freq Error	5.976 kHz	
x dB Bandwidth	10.187 MHz	

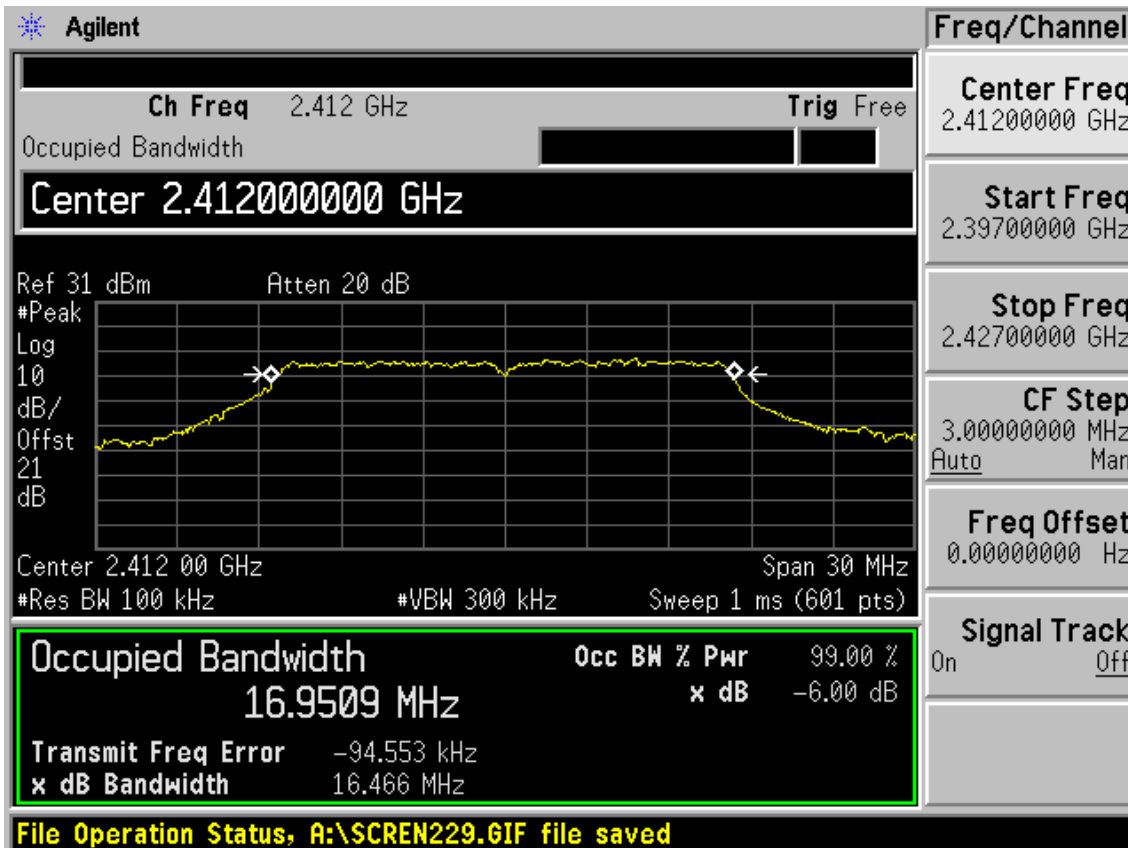
File Operation Status, A:\SCREN225.GIF file saved

Test CH11: 2462MHz

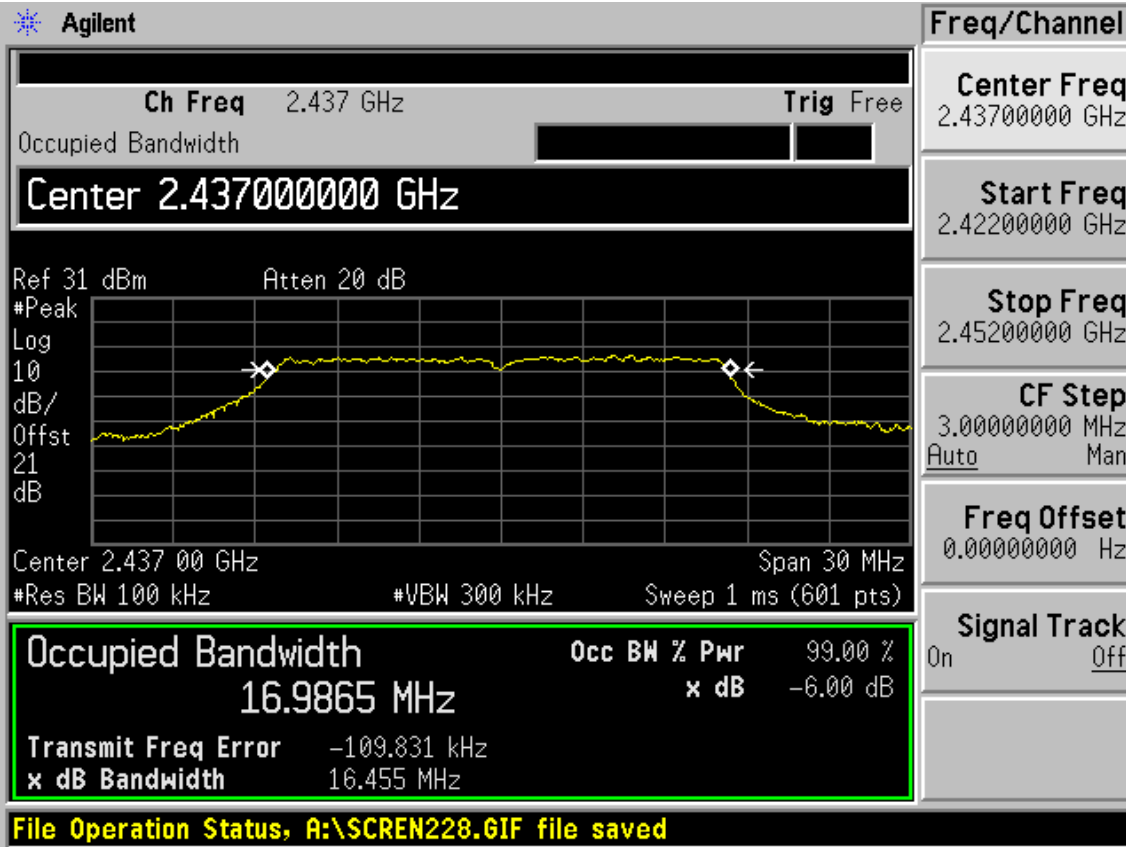


Test Mode: IEEE 802.11g TX

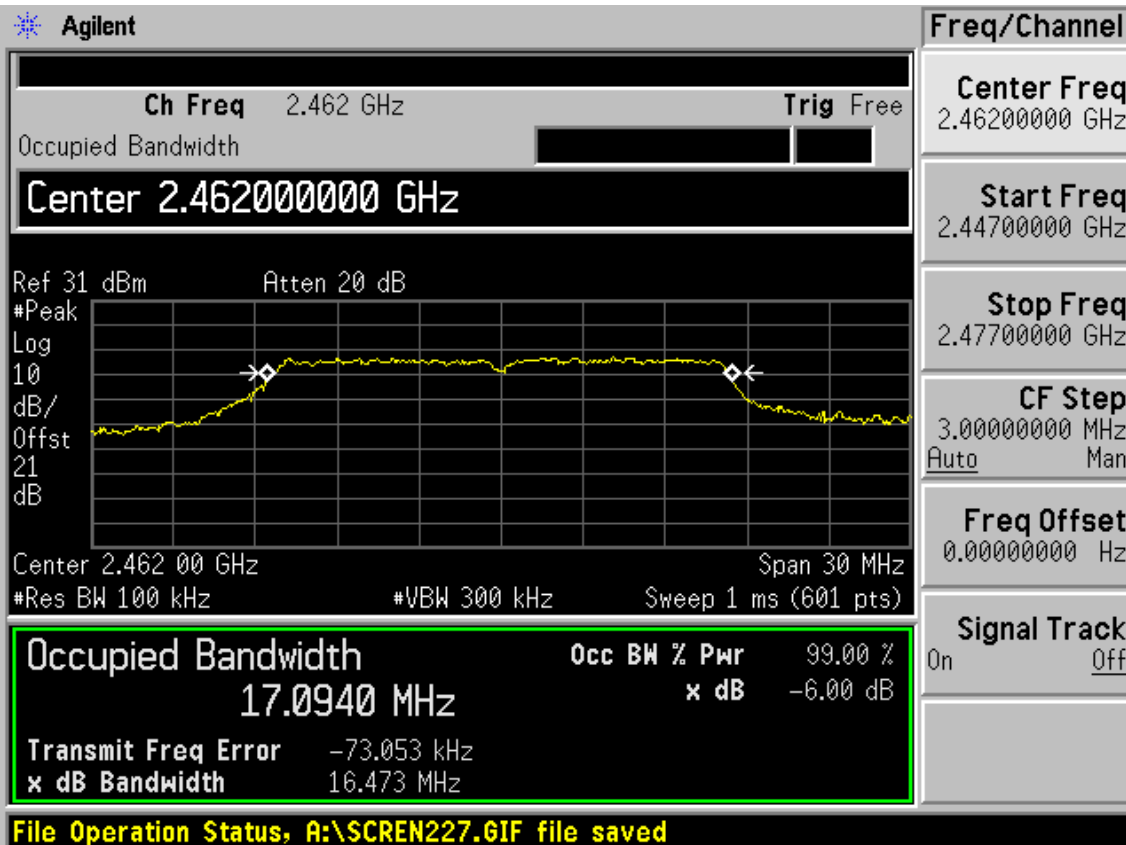
Test CH1: 2412MHz



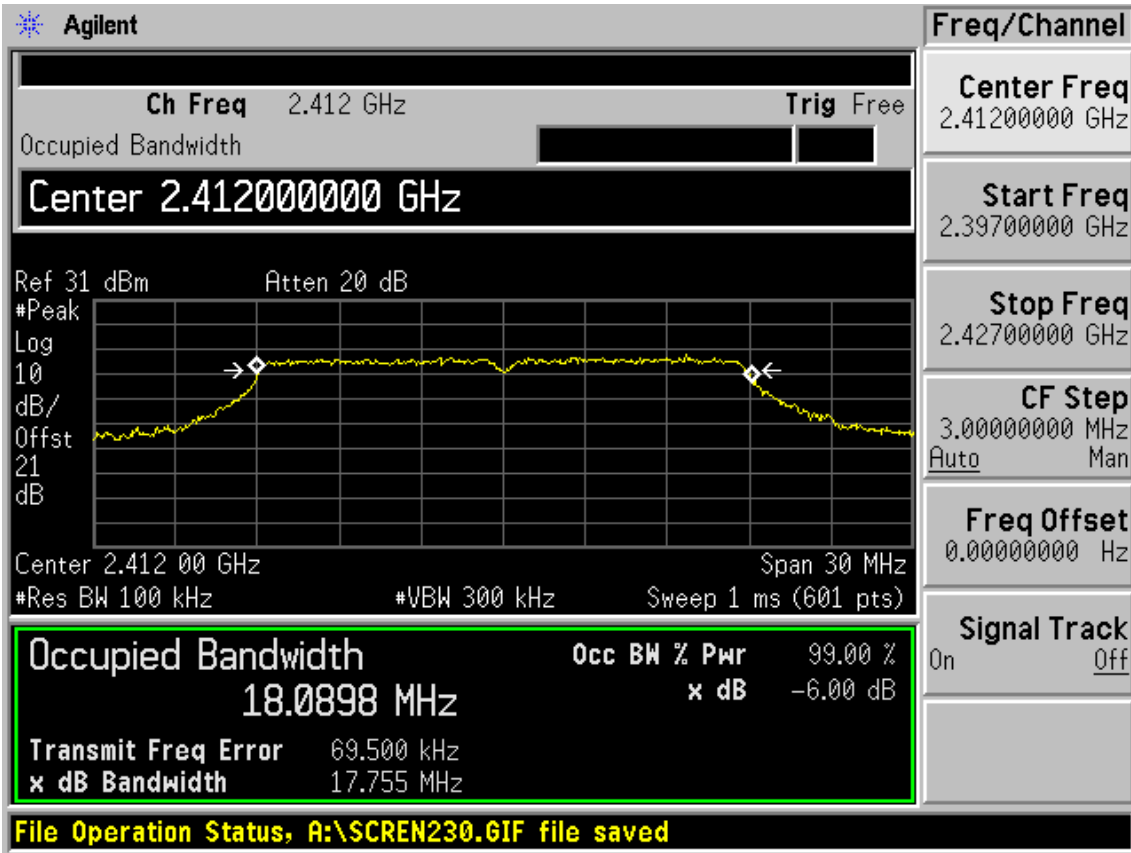
Test CH6: 2437MHz



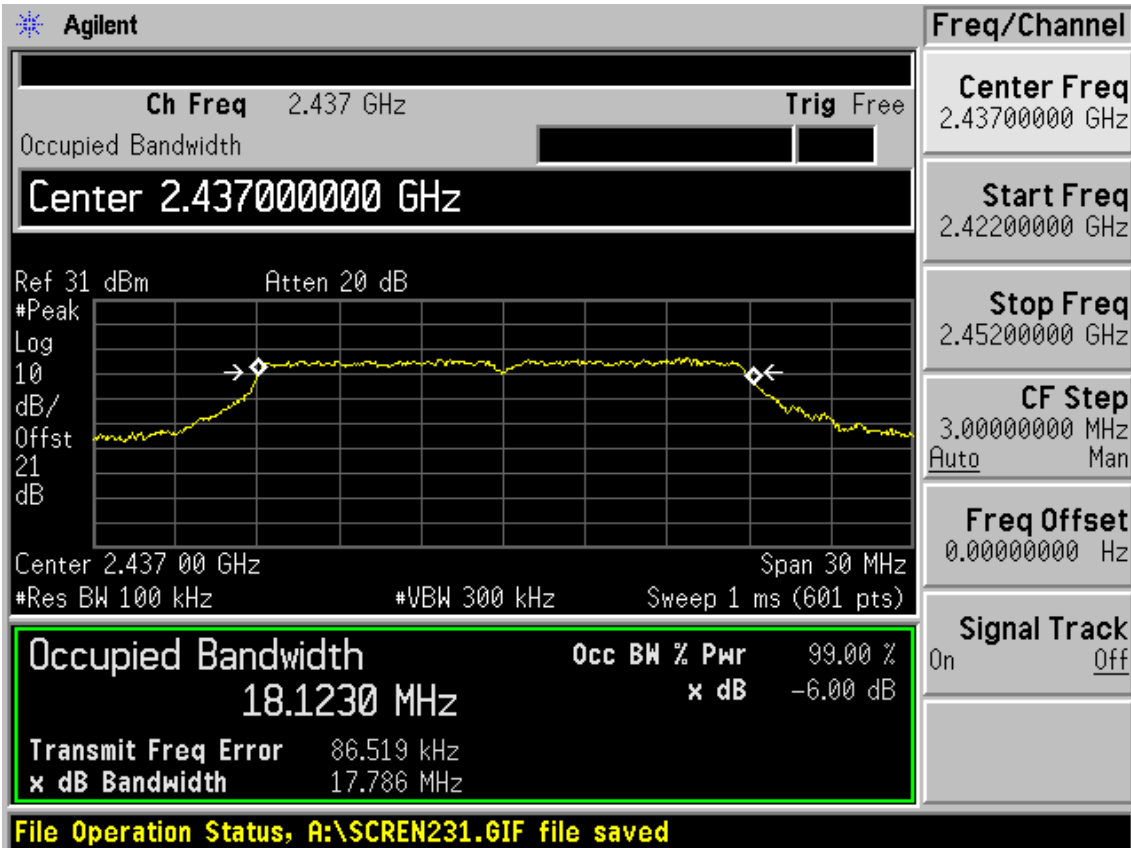
Test CH11: 2462MHz



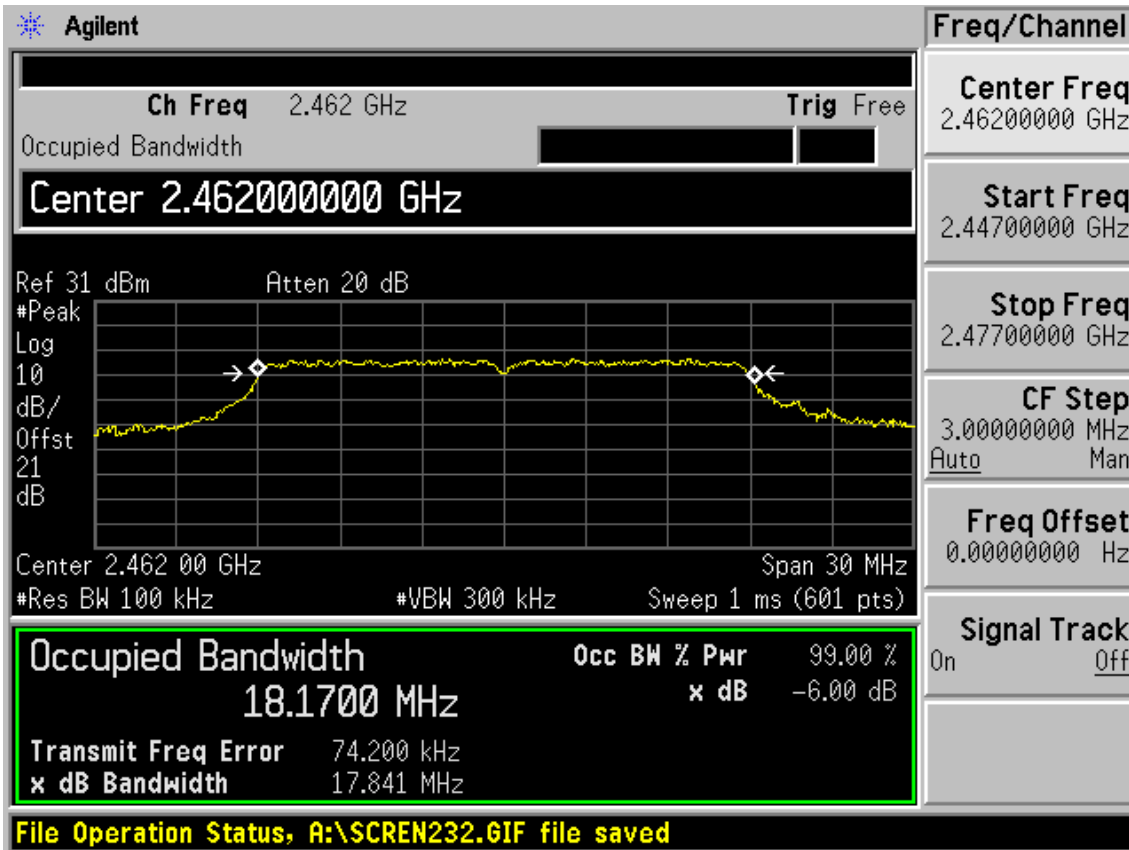
Test Mode: IEEE 802.11n HT20 TX
 Test CH1: 2412MHz



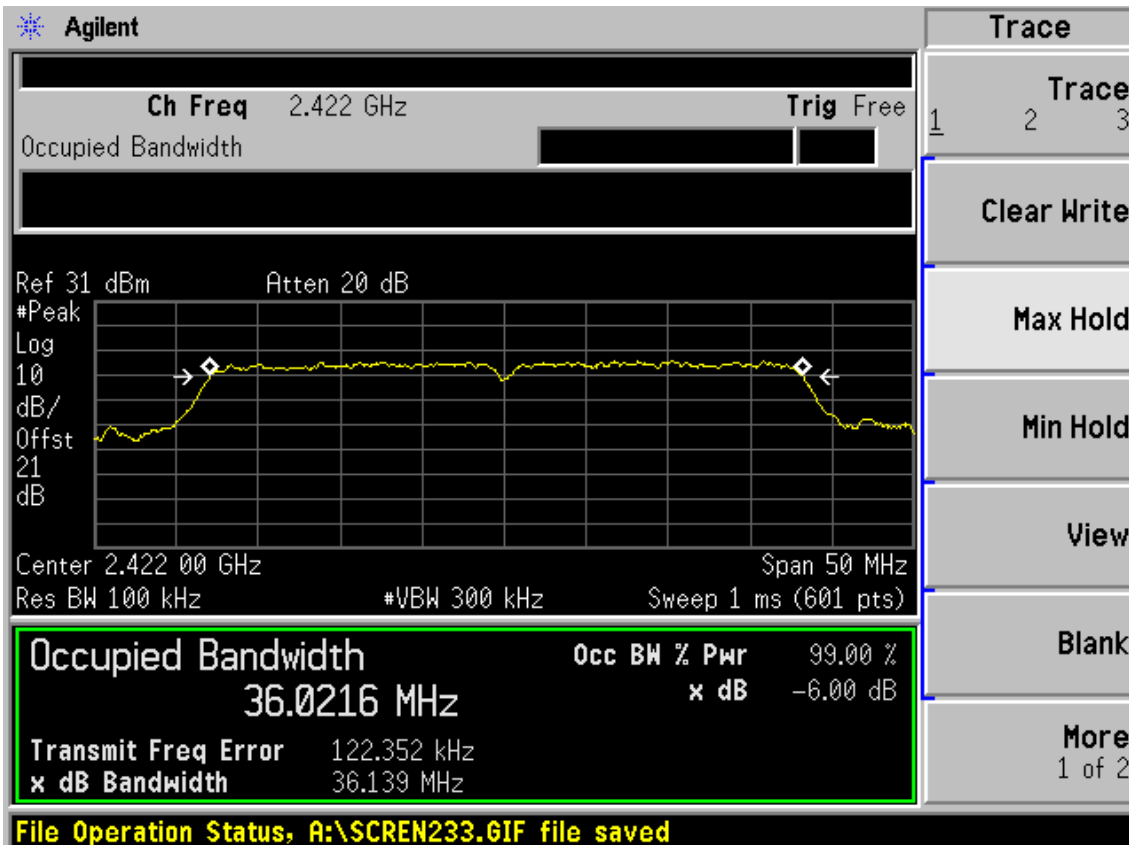
Test CH6: 2437MHz



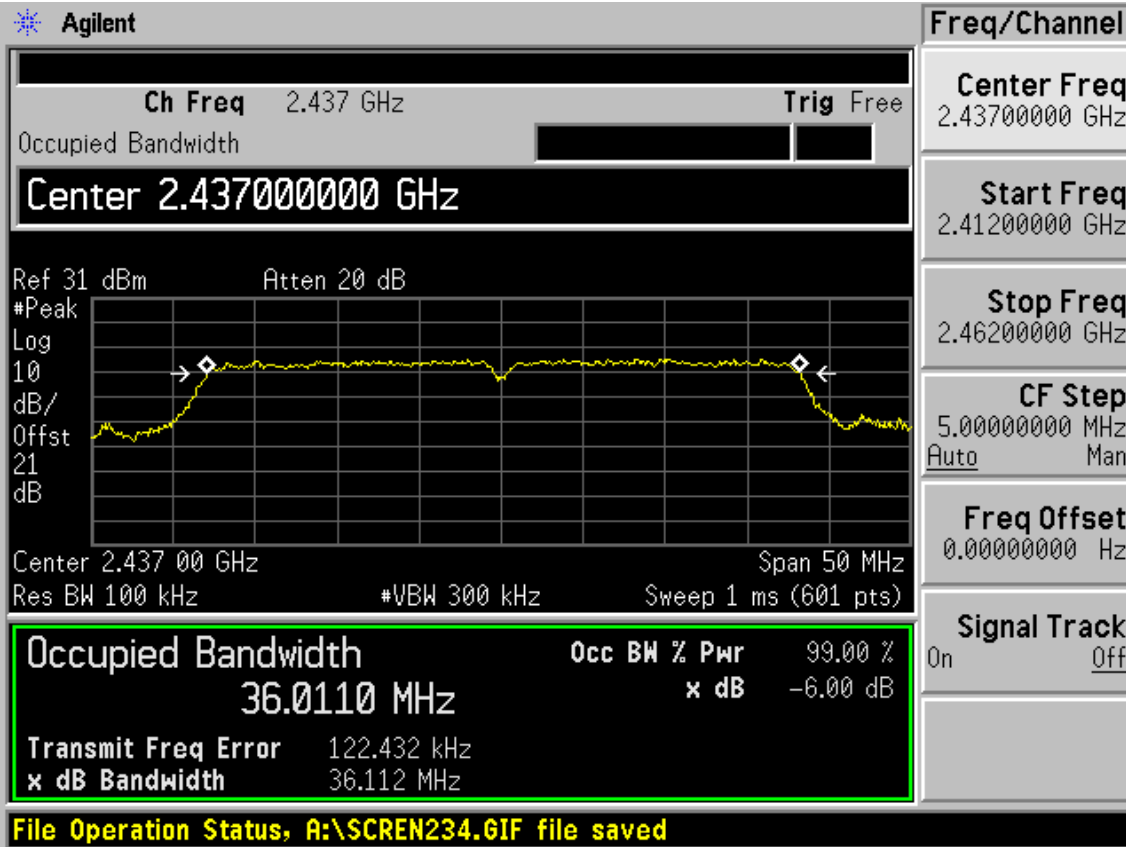
Test CH11: 2462MHz



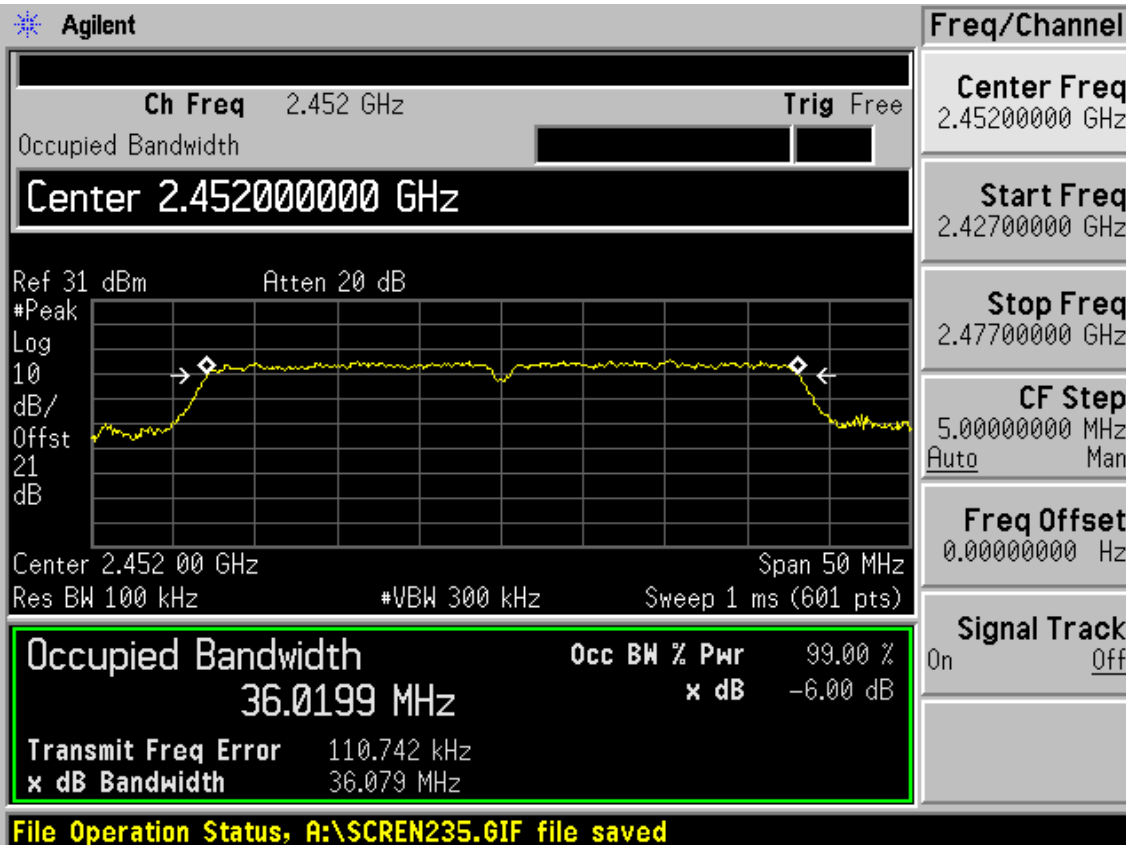
Test Mode: IEEE 802.11n HT40 TX
Test CH1: 2422MHz



Test CH4: 2437MHz



Test CH7: 2452MHz



8. OUTPUT POWER TEST

8.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	May.08, 12	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 12	1 Year
3.	Antenna	EMCO	3115	9510-4580	May.08, 12	1Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 12	1 Year
5.	Power Meter	Anritsu	ML2487A	6K00002472	May.08, 12	1Year
6.	Power Sensor	Anritsu	MA2491A	033005	May.08, 12	1Year

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

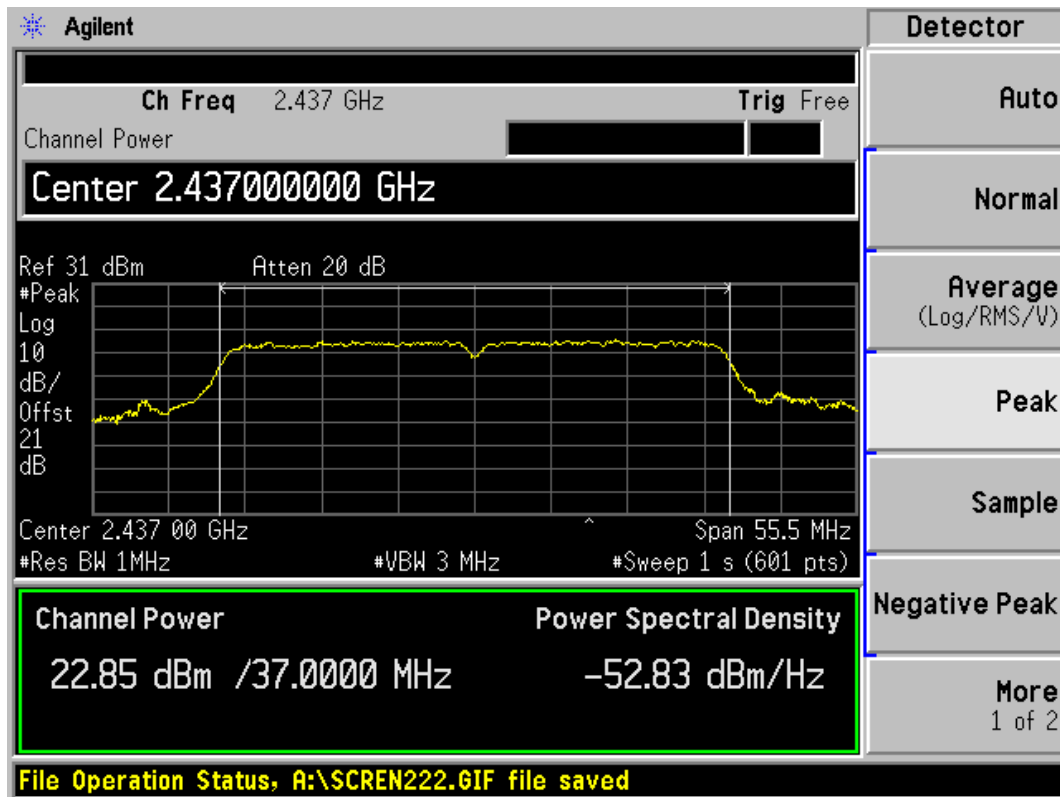
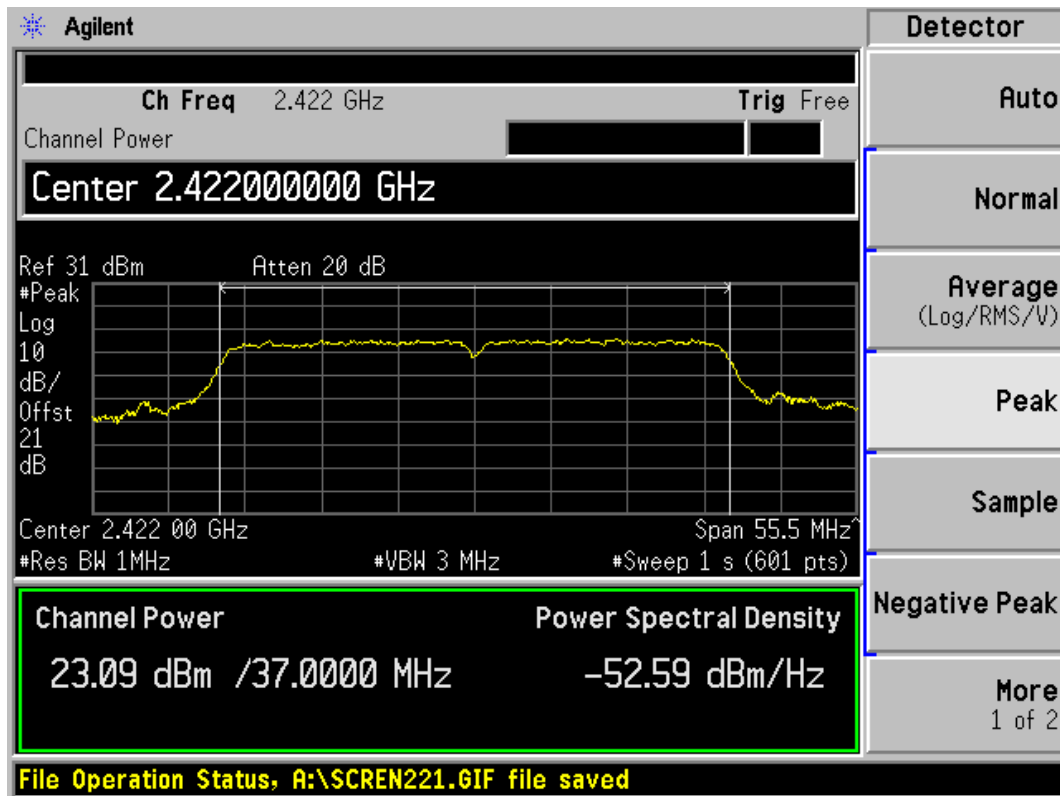
- 1, Connected the EUT's antenna port to measure device by 26dB attenuator.
- 2, For IEEE 802.11b/g and IEEE802.11n HT20 mode, use a PK power meter which's bandwidth is 20MHz and above 26dB bandwidth of signal to measure out each test modes' PK output power.
- 3, For IEEE802.11n HT40 mode, because the signal's bandwidth is about 40MHz and above 20MHz bandwidth of power sensor ML2491A. So use the test procedure described in KDB558074:
 - (a) Set the RBW = 1 MHz.
 - (b)Set the VBW = 3 MHz.
 - (c)Set the span to a value that is 5-30 % greater than the EBW.
 - (d)Detector = peak.
 - (e)Sweep time = auto couple.
 - (f)Trace mode = max hold.
 - (g)Allow trace to fully stabilize.
 - (h)Use the spectrum analyzer's integrated band power measurement function with band limits set equal to the EBW band edges(for some analyzers, this may require a manual overrideto ensure use of peak detector).

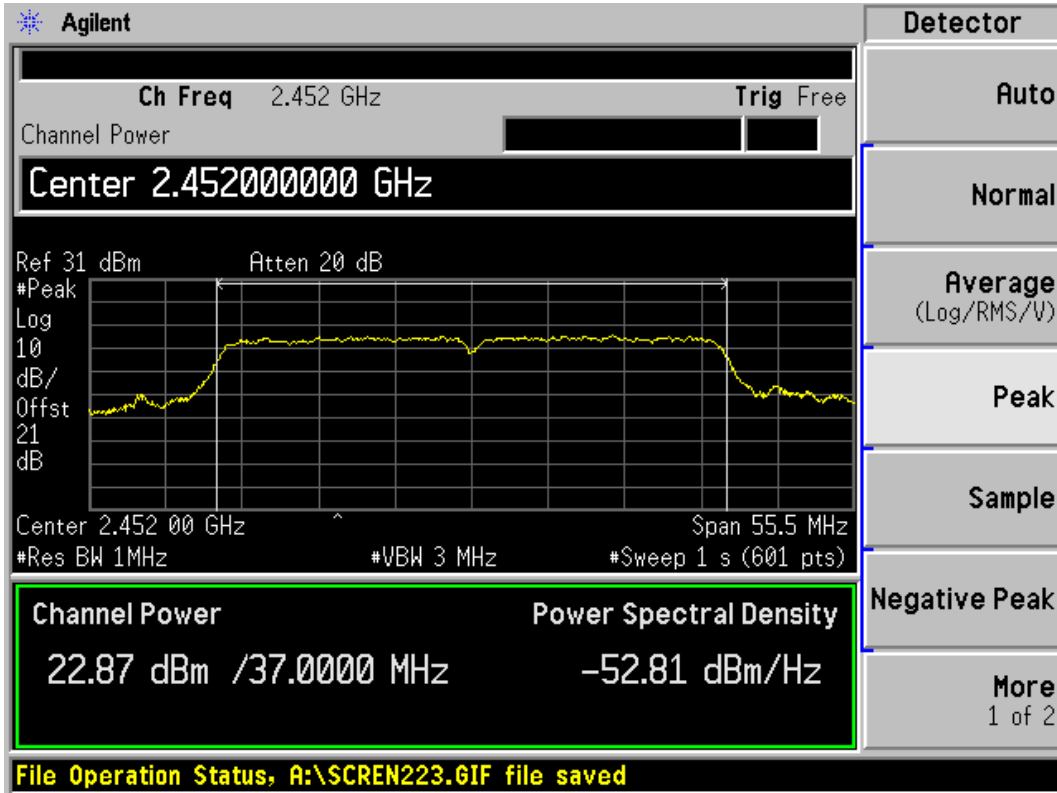
Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

8.4. Test Results

EUT: WIRELESS N 150 USB ADAPTER			
M/N: DWA-125			
Test date: 2013-01-25		Pressure: 101.4±1.0 kpa	Humidity: 53.4±3.0%
Tested by: Leo-Li		Test site: RF Site	Temperature : 21.6±0.6°C
Cable loss: 1 dB		Attenuator loss: 20 dB	
Test Mode	CH (MHz)	Peak output Power (dBm)	Limit (dBm)
11b	CH1	19.82	30
	CH6	19.71	30
	CH11	19.40	30
11g	CH1	23.71	30
	CH6	23.50	30
	CH11	23.68	30
11n HT20	CH1	24.12	30
	CH6	23.78	30
	CH11	24.01	30
11n HT40	CH1	23.09	30
	CH4	22.85	30
	CH7	22.87	30
Conclusion: PASS			

Test Mode: IEEE 802.11n HT40





9. POWER SPECTRAL DENSITY TEST

9.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	May.08, 12	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 12	1 Year
3.	Antenna	EMCO	3115	9510-4580	May.08, 12	1Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 12	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. Set the test frequency as center frequency, Set RBW=100KHz, VBW=300KHz, Span to 5-30 % greater than the EBW, Read out maximum peak level of the test frequency.
- 3, adjusting (reducing) the measured power in step 2 by a bandwidth correction factor (BWCF) where $BWCF = 10\log(3\text{ kHz}/100\text{ kHz} = -15.2\text{ dB})$

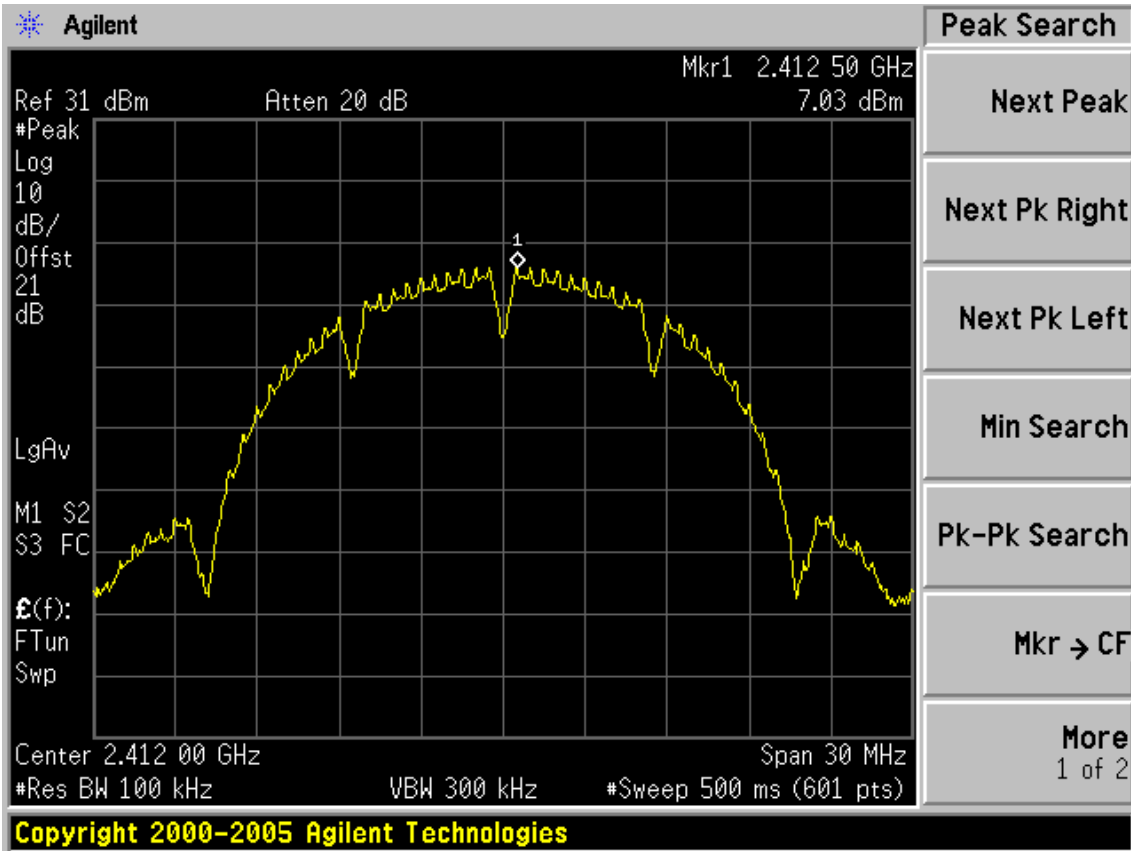
Note: The cable loss and attenuator loss were offset into measure device as an amplitude

9.4. Test Results

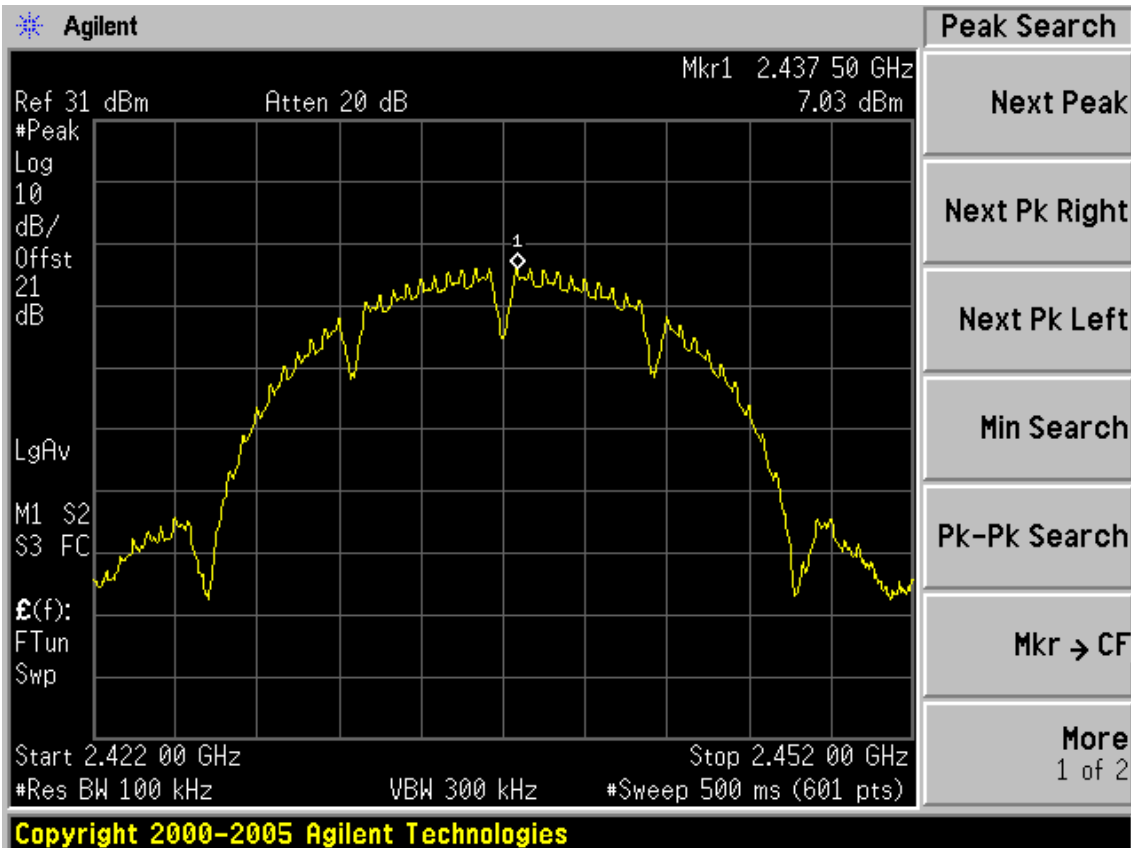
EUT: WIRELESS N 150 USB ADAPTER		
M/N: DWA-125		
Test date: 2013-01-25	Pressure: 101.2kpa	Humidity: 53.3±3.0 %
Tested by: Leo-Li	Test site: RF Site	Temperature : 24.7±0.6°C

Cable loss: 1 dB		Attenuator loss: 20 dB		
Test Mode	CH	Power density (dBm/100KHz)	Power density (dBm/3KHz)	Limit (dBm/3KHz)
11b	CH1	7.03	-8.17	8
	CH6	7.03	-8.17	8
	CH11	6.70	-8.50	8
11g	CH1	2.49	-12.71	8
	CH6	2.08	-13.12	8
	CH11	2.31	-12.89	8
11n Mode				
Test Mode	CH	Power density (dBm/100KHz)	Power density (dBm/3KHz)	Limit (dBm/3KHz)
11n HT20	CH1	3.14	-12.06	8
	CH6	2.23	-12.97	8
	CH11	2.74	-12.46	8
11n HT40	CH1	7.48	-7.72	8
	CH4	6.72	-8.48	8
	CH7	6.44	-8.76	8
BW correction factor = 10log[(3/100KHz)] = -15.2				
Conclusion : PASS				

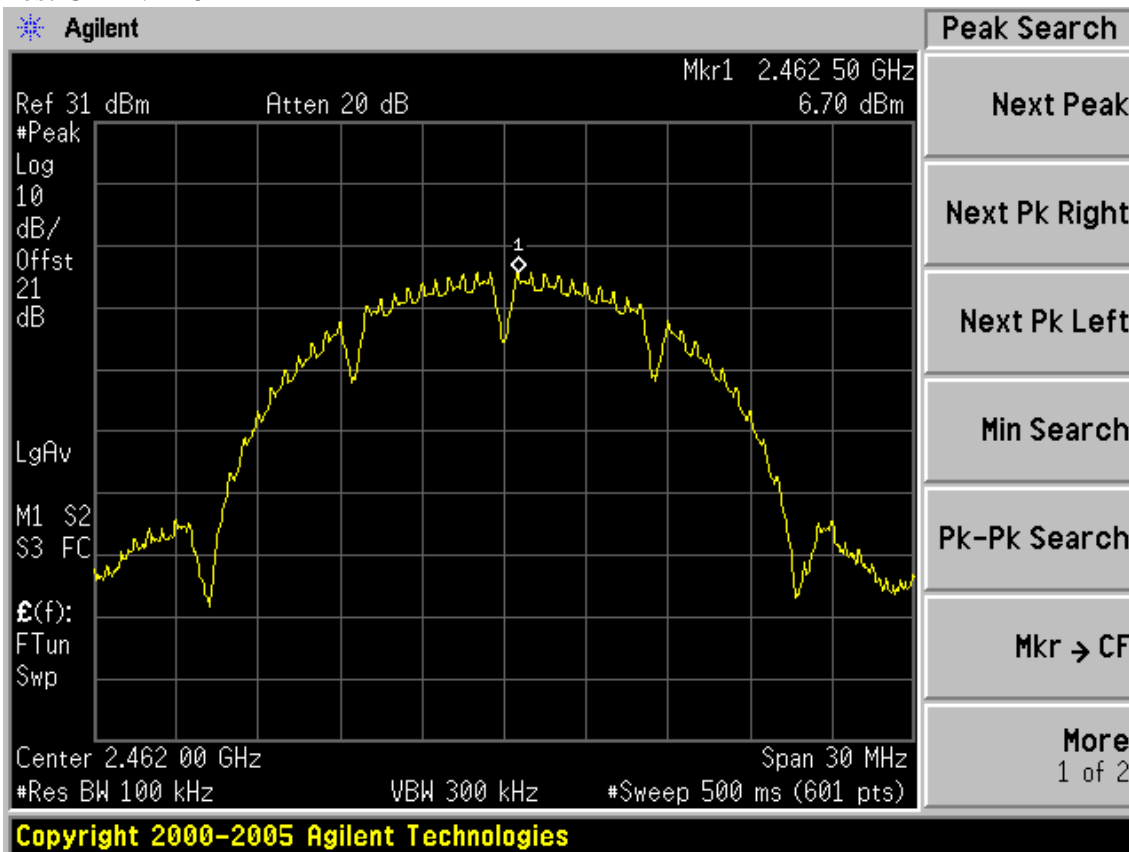
Test Mode: IEEE 802.11b TX
 Test CH1: 2412MHz



Test CH6: 2437MHz

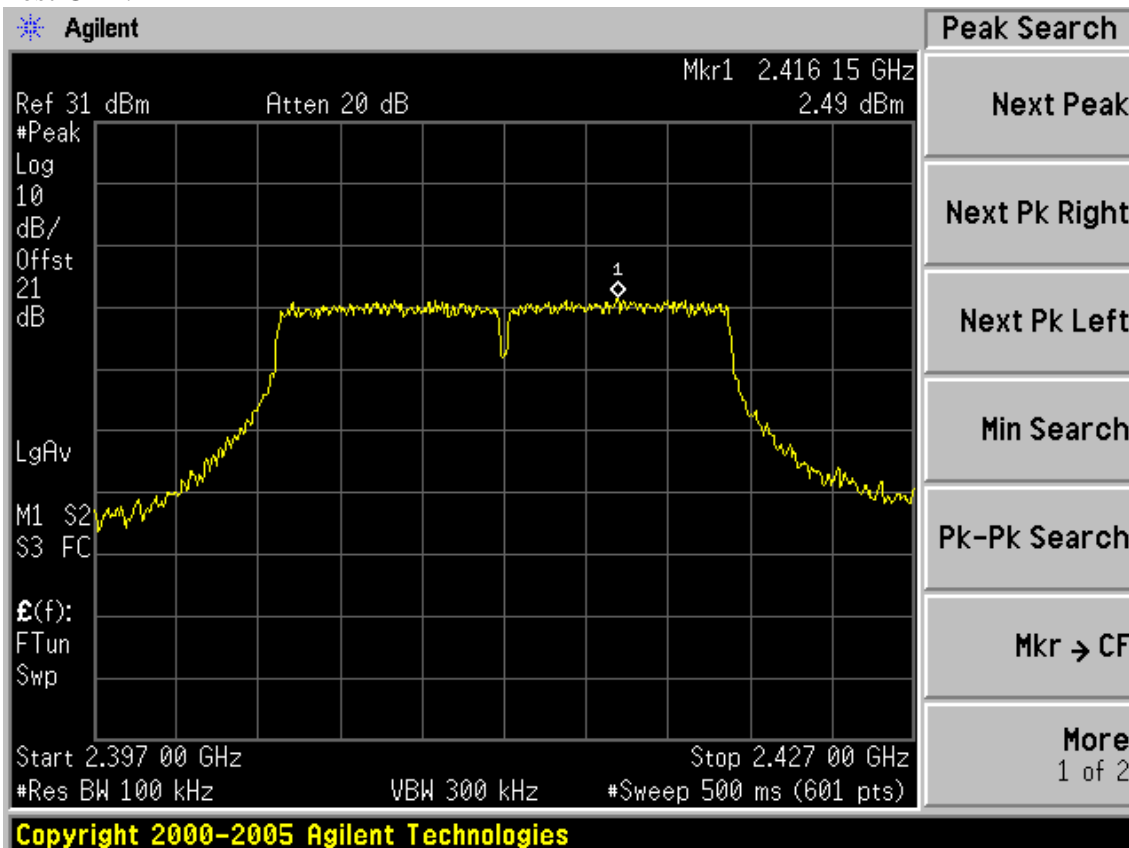


Test CH11: 2462MHz

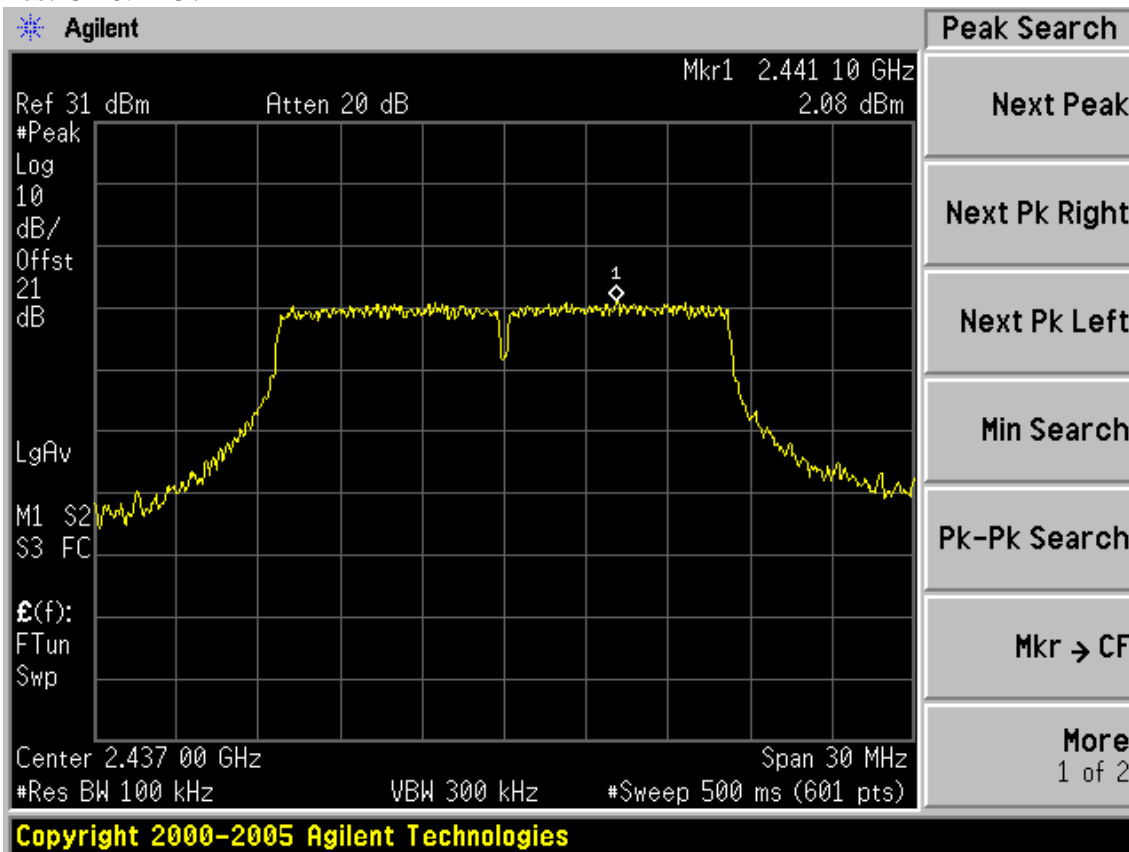


Test Mode: IEEE 802.11g TX

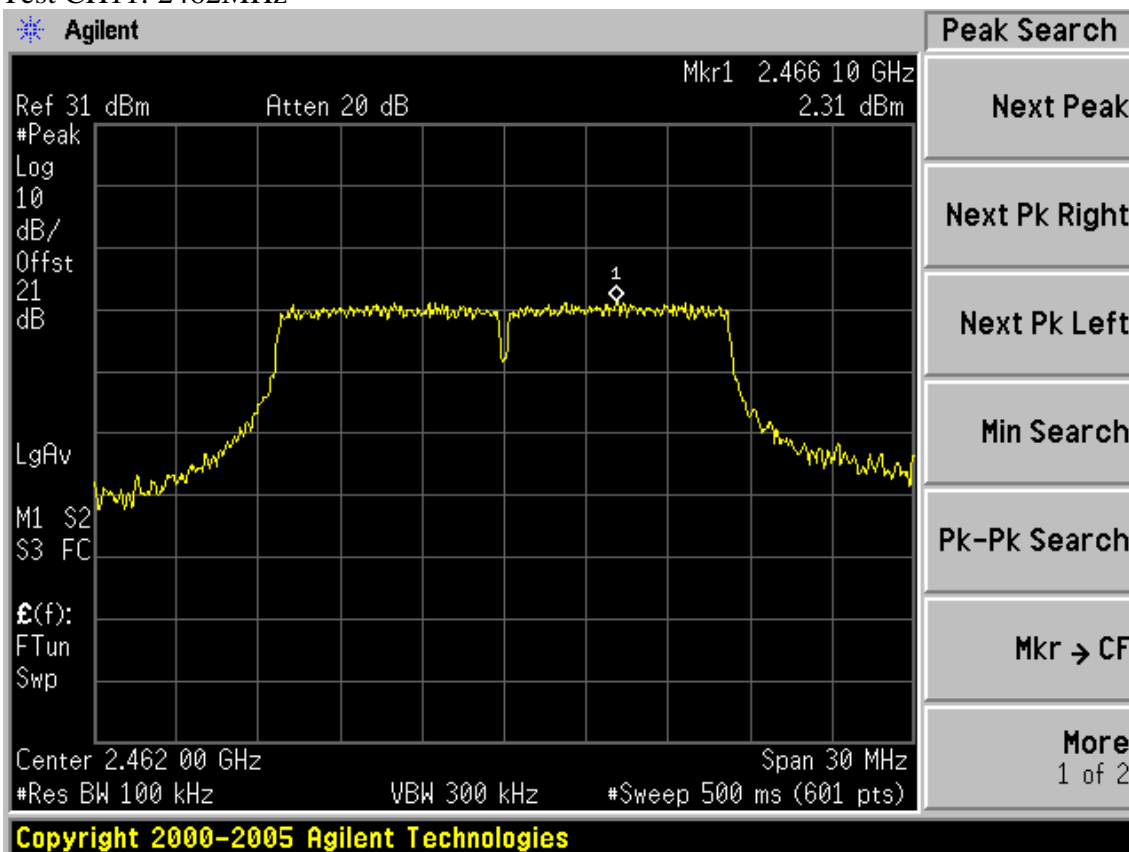
Test CH1: 2412MHz



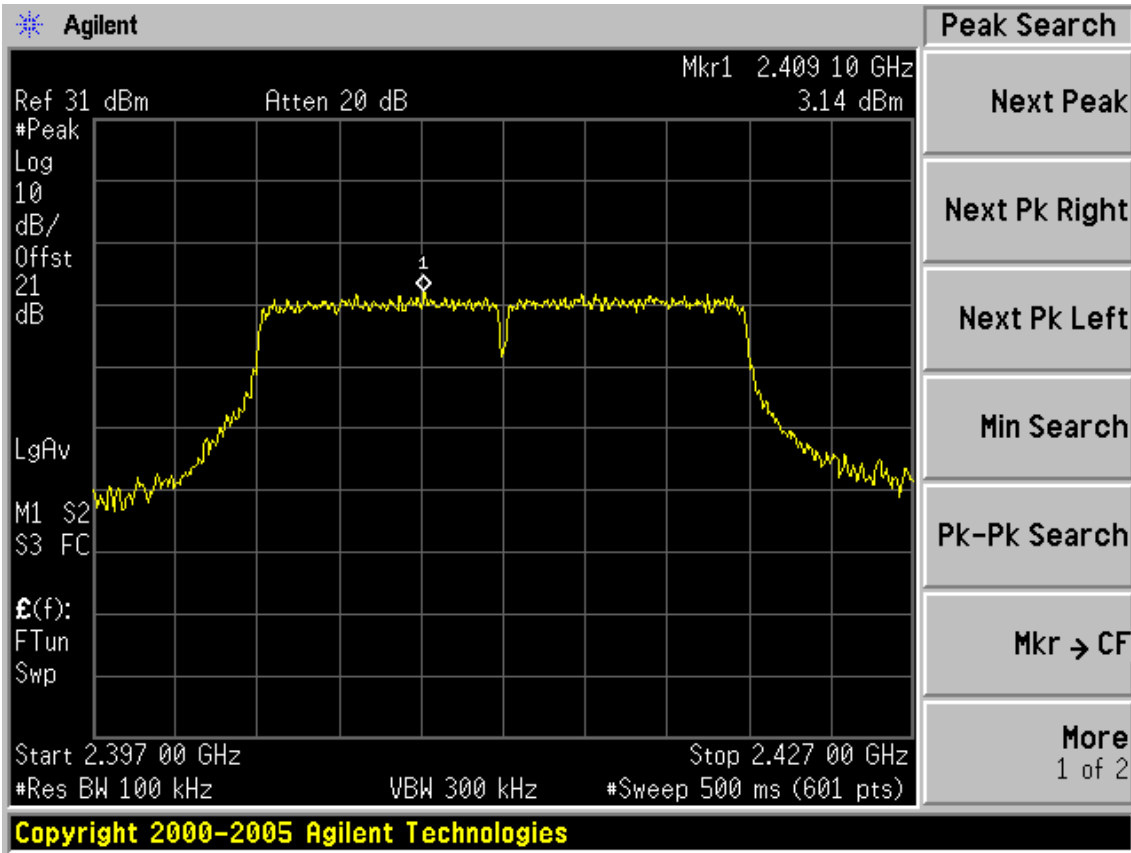
Test CH6: 2437MHz



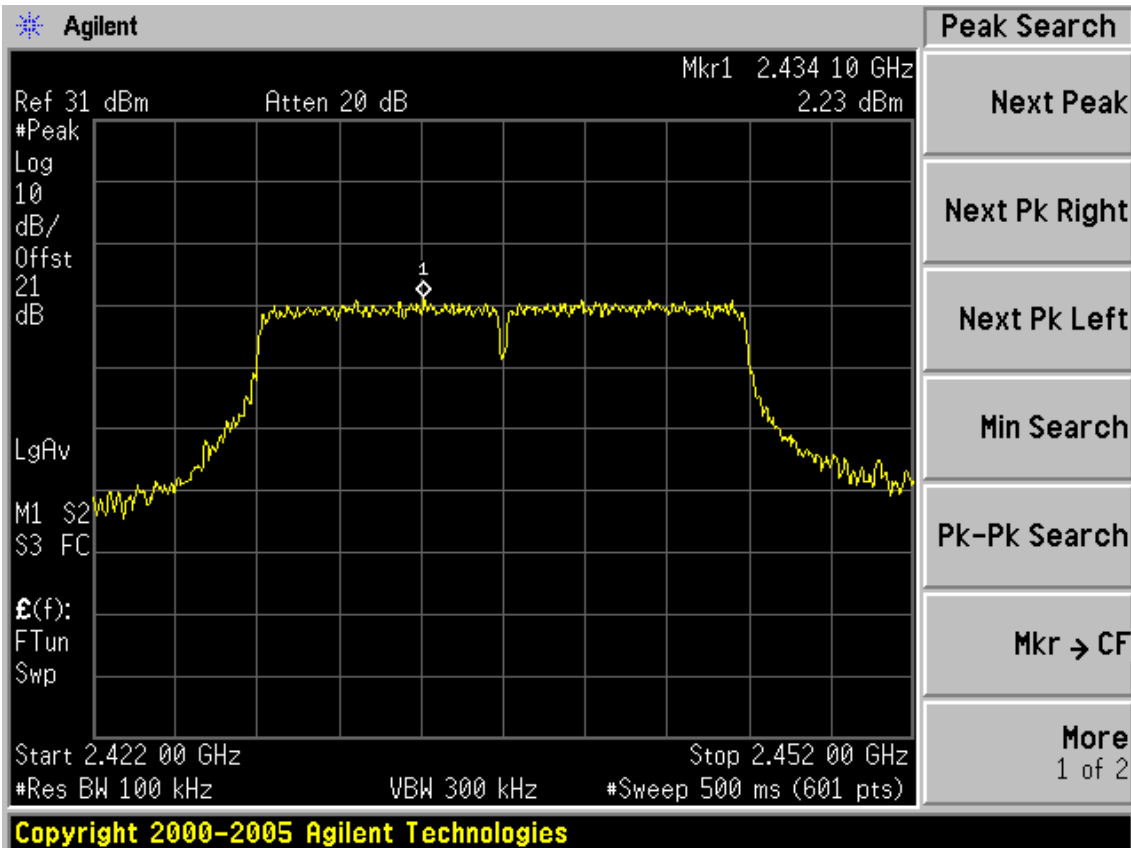
Test CH11: 2462MHz



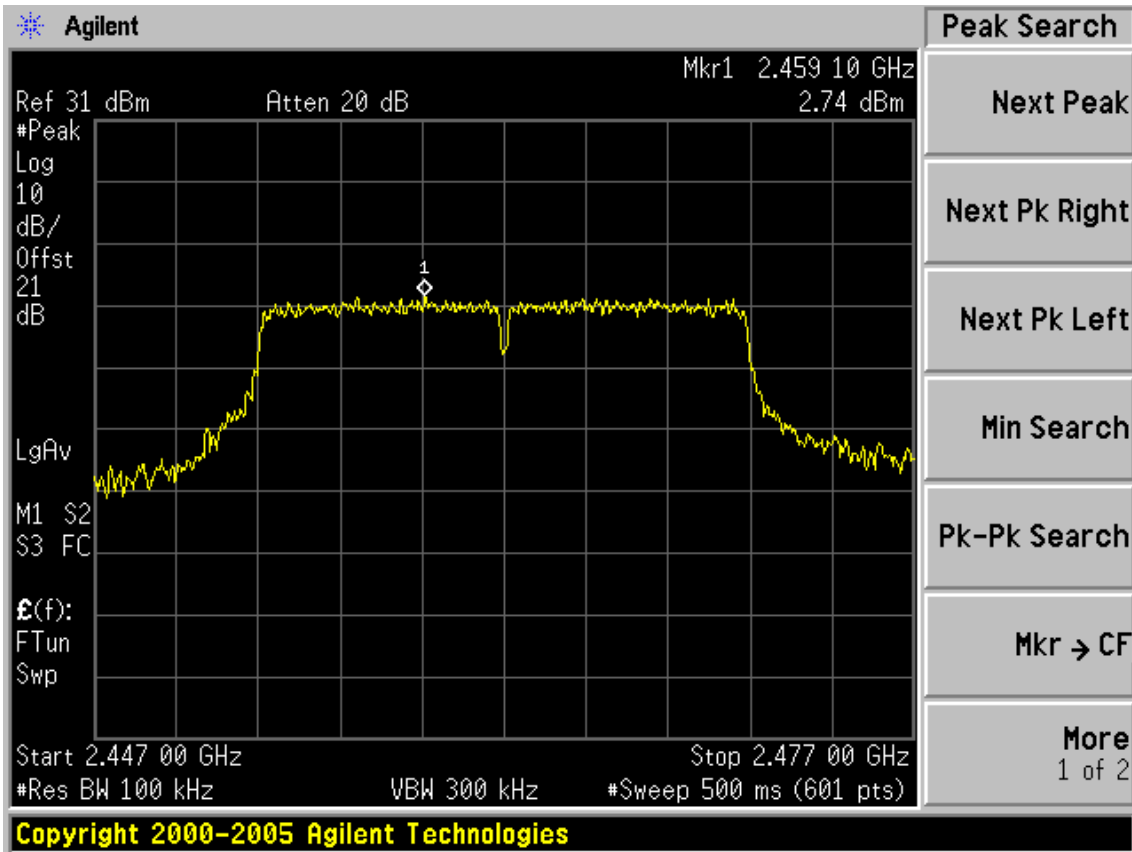
Test Mode: IEEE 802.11n HT20 TX
 Test CH1: 2412MHz



Test CH6: 2437MHz

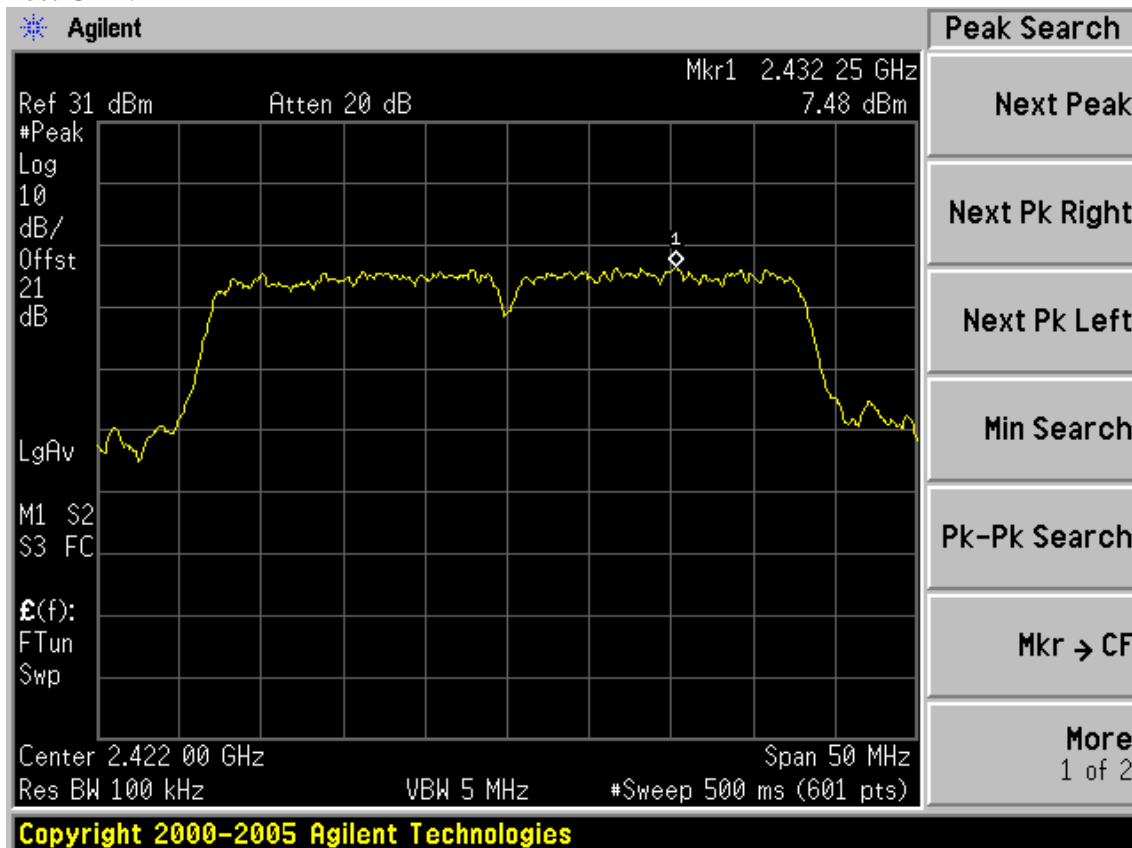


Test CH11: 2462MHz

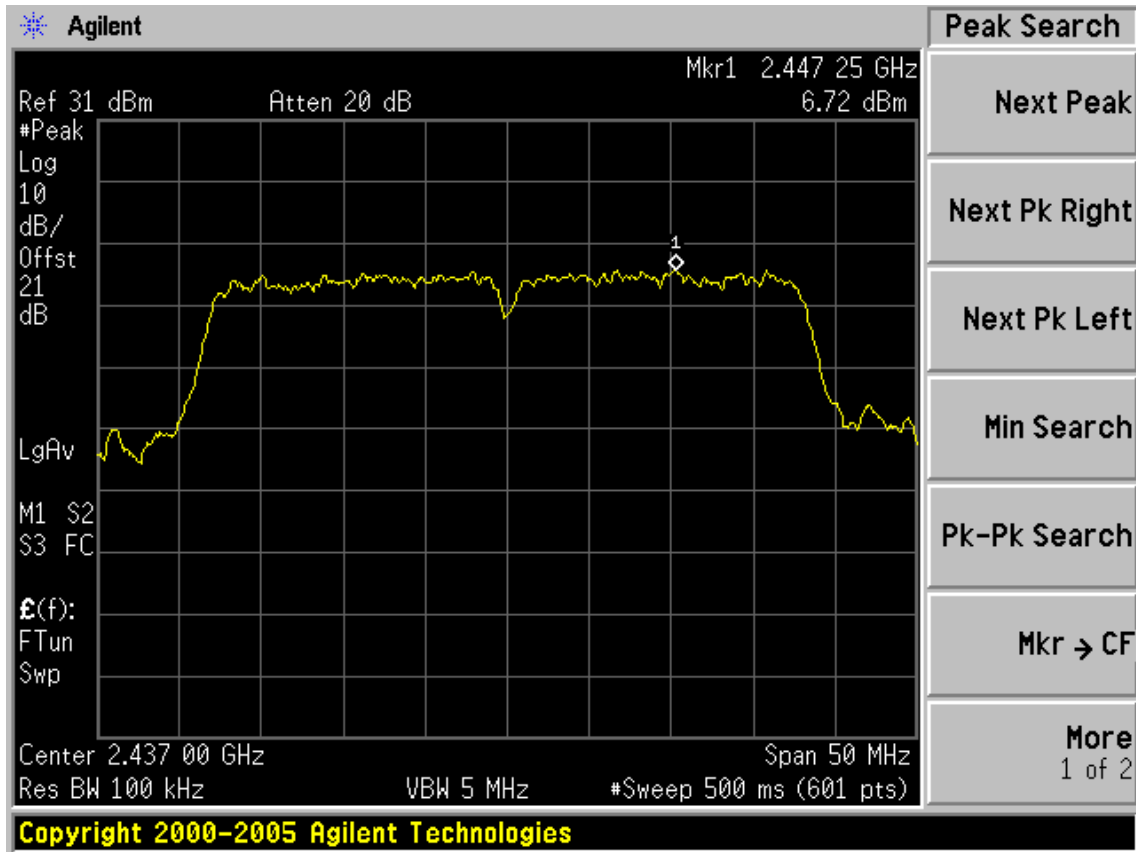


Test Mode: IEEE 802.11n HT40 TX

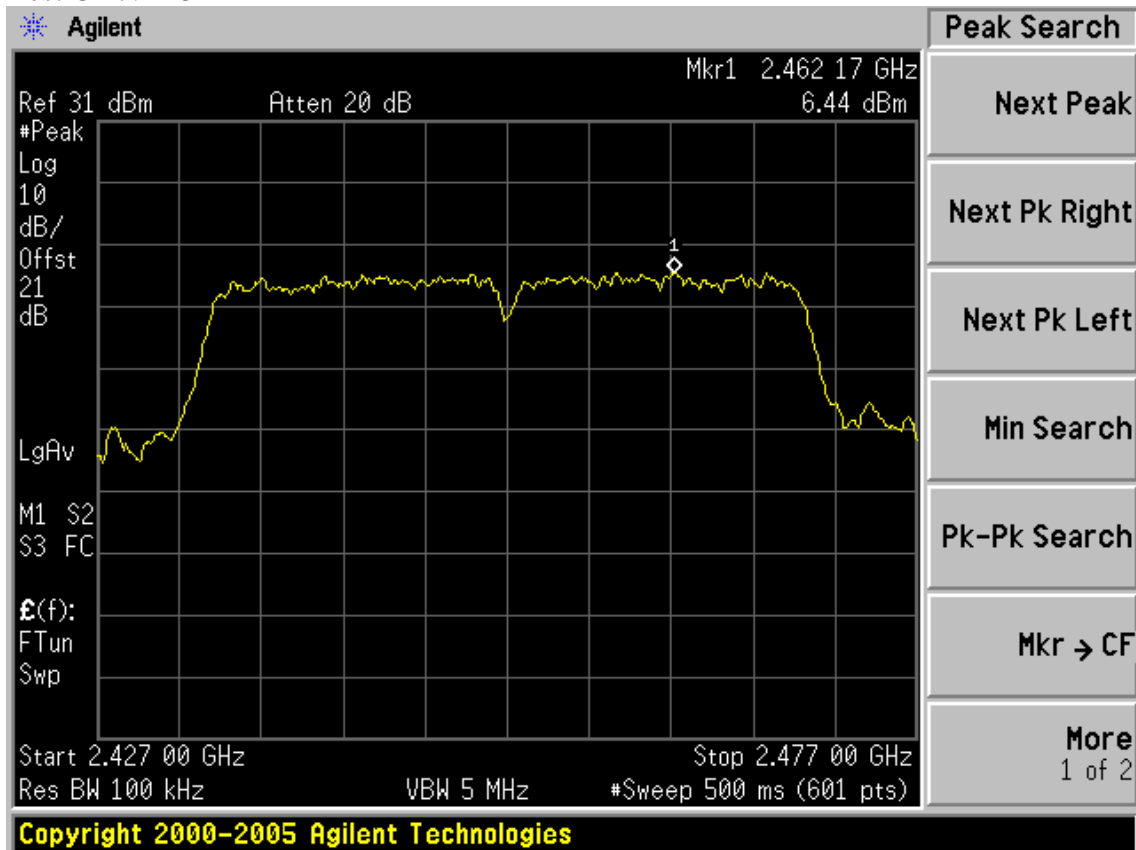
Test CH1: 2422MHz



Test CH4: 2437MHz



Test CH7: 2452MHz



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 PCB Antenna 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 1.5dBi.

11.DEVIATION TO TEST SPECIFICATIONS

[NONE]