

FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

TP-LINK Technologies Co., Ltd.

300Mbps High Gain Wireless N USB Adapter

Model No.: TL-WN822N

FCC ID: TE7WN822N

Prepared for : TP-LINK Technologies Co., Ltd.
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Date of Test : Jun.03~Oct.07, 2010
Date of Report : Oct.12, 2010

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TEST REPORT CERTIFICATION

Applicant : TP-LINK Technologies Co., Ltd.
Manufacturer : TP-LINK Technologies Co., Ltd.
EUT Description : 300Mbps High Gain Wireless N USB Adapter
FCC ID : TE7WN822N
(A) MODEL NO. : TL-WN822N
(B) SERIAL NO. : N/A
(C) POWER SUPPLY : DC 5V From PC
(D) TEST VOLTAGE : DC 5V From PC Input AC 120V/60Hz

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

Test procedure used:
ANSI C63.10:2009

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to confirm comply with all the FCC Part 15 Subpart C requirements.

The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Date of Test : Jun.03~ Oct.07, 2010 Report of date: Oct.12,2010

Prepared by : Annie Wu Reviewer by : Jamy Yu
Annie Wu / Supervisor Jamy Yu / Supervisor

Approved & Authorized Signer :

Ken Lu / Manager



1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

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

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Product Name	:	300Mbps High Gain Wireless N USB Adapter
Model Number	:	TL-WN822N
FCC ID	:	TE7WN822N
Operation Frequency	:	IEEE 802.11b: 2412MHz—2462MHz IEEE 802.11g: 2412MHz—2462MHz IEEE 802.11n HT20: 2412MHz—2462MHz IEEE 802.11n 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	:	Integrated patch antenna, MIMO 2X2, 2.5dBi gain.
Applicant	:	TP-LINK Technologies Co., Ltd. 1-6F, Building 2, Pingshandayuan Industrial, South Zone, Taoyuan Street, Nanshan District, Shenzhen, P.R.C.
Manufacturer	:	TP-LINK Technologies Co., Ltd. 1-6F, Building 2, Pingshandayuan Industrial, South Zone, Taoyuan Street, Nanshan District, Shenzhen, P.R.C.
USB Cable	:	Shidlded, Detachable, 1.5m
Date of Test	:	Jun.03~Oct.07, 2010
Date of Receipt	:	Jun.03, 2010
Sample Type	:	Prototype production

2.2. Test Information

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

Tested mode, channel, and data rate information			
Mode	data rate (Mbps)(see Note)	Channel	Frequency (MHz)
IEEE 802.11b	11	Low :CH1	2412
	11	Middle: CH6	2437
	11	High: CH11	2462
IEEE 802.11g	54	Low :CH1	2412
	54	Middle: CH6	2437
	54	High: CH11	2462
IEEE 802.11n HT20	6.5	Low :CH1	2412
	6.5	Middle: CH6	2437
	6.5	High: CH11	2462
IEEE 802.11n HT40	13.5	Low :CH1	2422
	13.5	Middle: CH4	2437
	13.5	High: CH7	2452

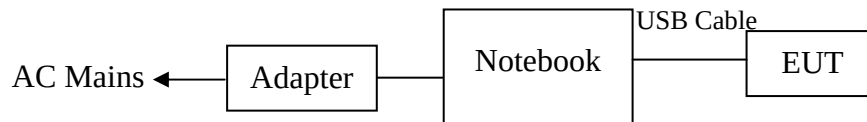
Note1: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.

Note2: This device use MIMO 2X2 antennas, for 802.11b/g mode, based exploratory test, when transmit with Chain 0 have worse emissions, so the final radiated spurious emissions were tested with chain 0 transmit mode. For 802.11n mode, all the radiated spurious emissions and band edge test were performed with two antennas transmit synchronous.

2.3. Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number	Approved type
1	Notebook	-	DELL	PP09S	N/A	☒ FCC DoC ☒ BSMI ID: R41108
		Power Cord: Unshielded, Detachable, 1.8m Power Adapter: Manufacturer: DELL, M/N: LA65NS1-00 Cable: Unshielded, Detachable, 4.0m(Bond one ferrite core)				

2.4. Block diagram of connection between the EUT and simulators



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 : Mar.31, 2009 File on Federal
Communication Commission
Registration Number: 90454

3m & 10m Anechoic Chamber : Dec. 30, 2009 File on Federal
Communication Commission
Registration Number: 794232

EMC Lab. : Certificated by Industry Canada
Registration Number: IC 5183A-1
Jul. 03, 2009
: Accredited by DATech, German
Registration Number: DAT-P-091/99-01
Feb. 02, 2009
Accredited by NVLAP, USA
NVLAP Code: 200372-0
Apr. 01, 2010

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

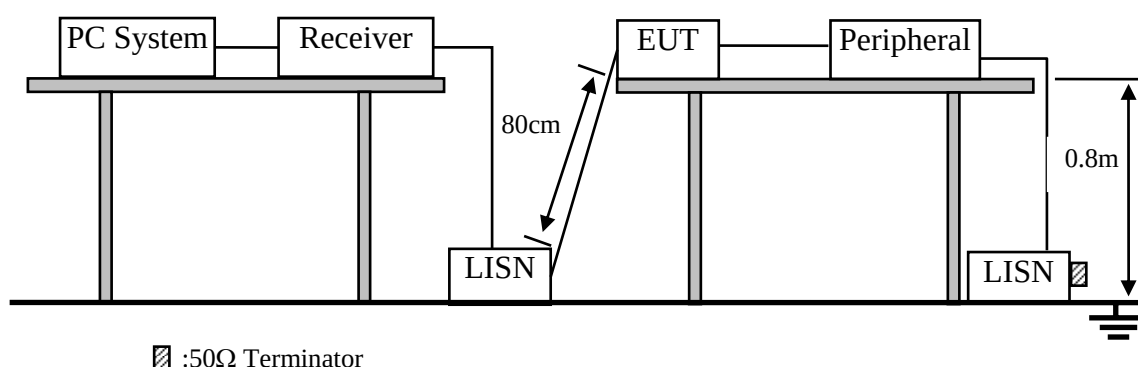
Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	3.64 dB (9kHz to 150kHz)
	3.22 dB(150kHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	4.20 dB (Polarize: V)
	4.66 dB (Polarize: H)
Uncertainty for Radiated Spurious Emission test in RF chamber	2.70 dB(Bilog antenna 30M~1000MHz)
	2.27 dB(Horn antenna 1000M~12750MHz)
Uncertainty for Conduction Spurious emission test	2.12 dB
Uncertainty for Output power test	0.97 dB
Uncertainty for Power density test	2.21 dB
Uncertainty for Frequency range test	1×10^{-9}
Uncertainty for Bandwidth test	1×10^{-9}
Uncertainty for DC power test	0.038 %
Uncertainty for test site temperature and humidity	0.3°C
	2%

3. POWER LINE CONDUCTED EMISSION TEST

3.1.Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	Dec.18, 09	1 Year
2.	L.I.S.N.#1	Rohde & Schwarz	ESH2-Z5	834066/011	Mar.30, 10	1 Year
3.	Terminator	Hubersuhner	50Ω	No. 1	May.08, 10	1 Year
4.	Terminator	Hubersuhner	50Ω	No. 2	May.08, 10	1 Year
5.	RF Cable	Fujikura	3D-2W	LISN Cable 1#	May.08, 10	1Year
6.	Coaxial Switch	Anritsu	MP59B	M55367	May.08, 10	1 Year
7.	Passive Probe	Rohde & Schwarz	ESH2-Z3	299.7810.52	May.08, 10	1 Year
8.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100341	May.08, 10	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. 300Mbps High Gain Wireless N USB Adapter (EUT)

Model Number : TL-WN822N
Serial Number : N/A

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

3.5.Operating Condition of EUT

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

3.5.2. Turned on the power of all equipment.

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

3.6.Test Procedure

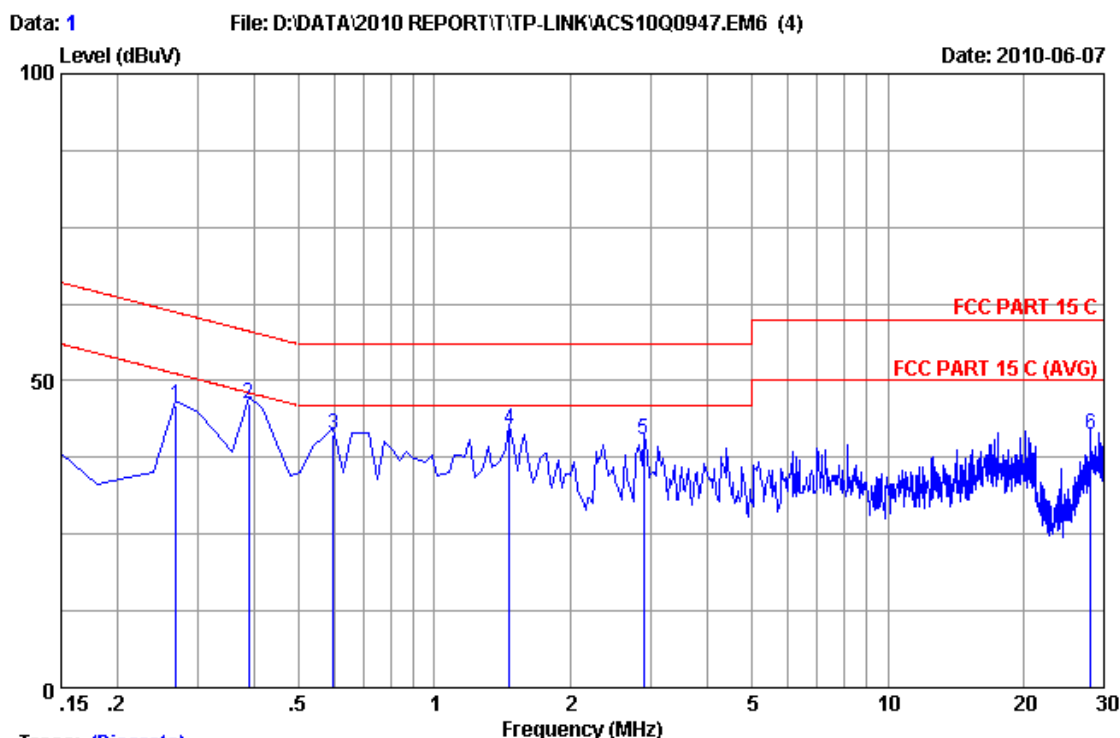
The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power Via Notebook connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2009 on Conducted Emission Test.

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

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

3.7.Power Line Conducted Emission Test Results

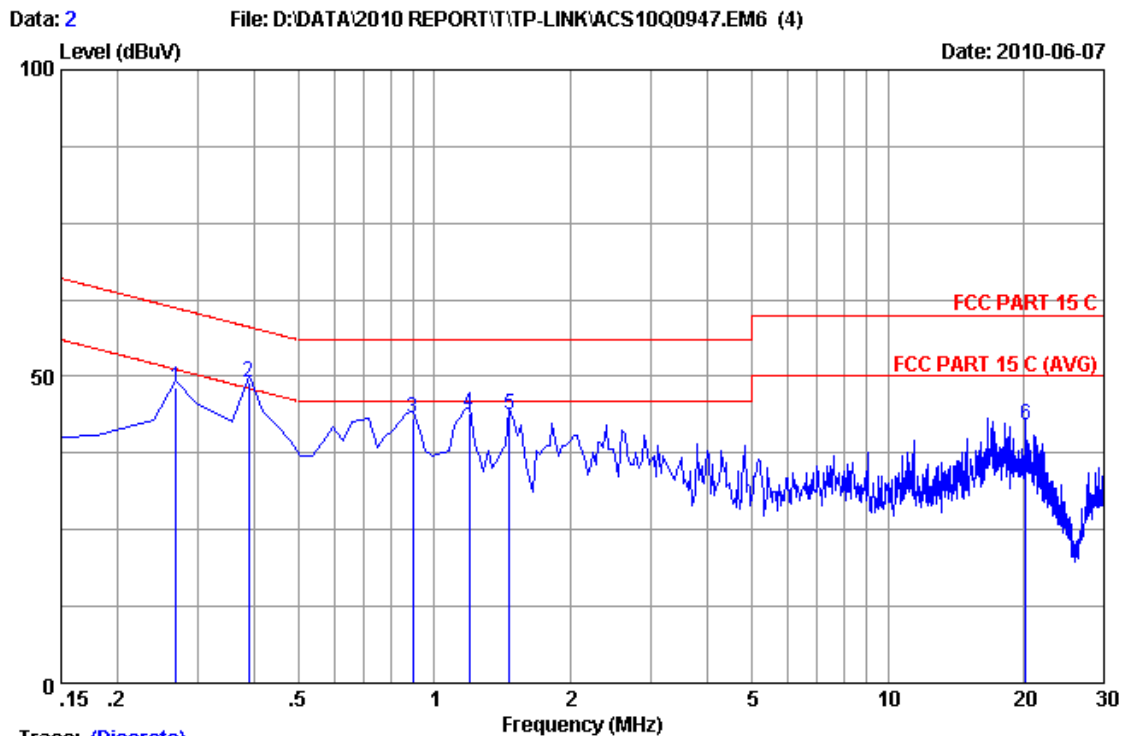
PASS. (All emissions not reported below are too low against the prescribed limits.)


Trace: (Discrete)

Site no : Audix No.1 Conduction Data no : 1
 Dis./Ant. : ** 2010 ESH2-Z5 L
 Limit : FCC PART 15 C
 Env./Ins. : Temp:23'C Humi:54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power Rating : DC 5V From PC input AC 120V/60Hz
 Test Mode : Tx Mode
 M/N : TL-WN822N

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.26940	0.22	9.88	35.75	45.85	61.14	15.29	QP
2	0.38880	0.24	9.88	36.14	46.26	58.09	11.83	QP
3	0.59775	0.25	9.88	31.14	41.27	56.00	14.73	QP
4	1.463	0.24	9.90	31.82	41.96	56.00	14.04	QP
5	2.896	0.26	9.93	30.26	40.45	56.00	15.55	QP
6	28.030	1.01	10.15	29.96	41.12	60.00	18.88	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 : Audix No.1 Conduction Data no : 2
 Dis./Ant. : ** 2010 ESH2-Z5 N
 Limit : FCC PART 15 C
 Env./Ins. : Temp:23'C Humi:54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power Rating : DC 5V From PC input AC 120V/60Hz
 Test Mode : Tx Mode
 M/N : TL-WN822N

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.26940	0.21	9.88	38.11	48.20	61.14	12.94	QP
2	0.38880	0.22	9.88	39.02	49.12	58.09	8.97	QP
3	0.89625	0.25	9.89	33.12	43.26	56.00	12.74	QP
4	1.195	0.25	9.89	33.87	44.01	56.00	11.99	QP
5	1.463	0.26	9.90	33.64	43.80	56.00	12.20	QP
6	20.150	0.80	10.08	31.18	42.06	60.00	17.94	QP

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

4. RADIATED EMISSION TEST

4.1. Test Equipment

Frequency rang: 30~1000MHz

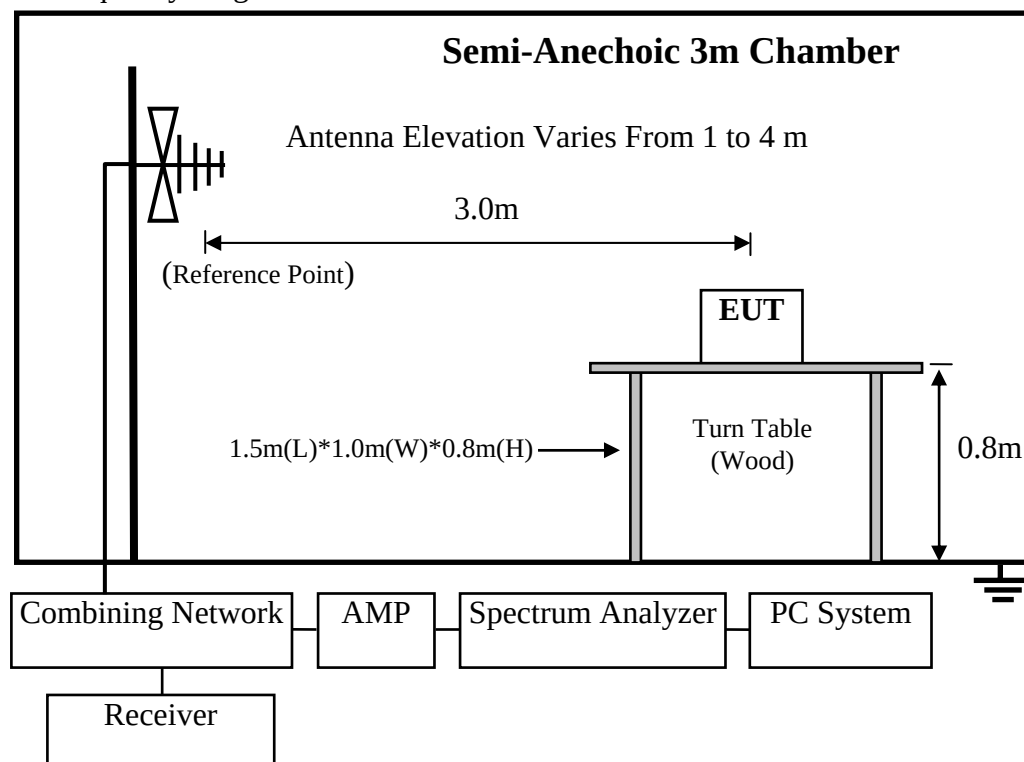
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	3#Chamber	AUDIX	N/A	N/A	Dec.05,09	1 Year
2	EMI Spectrum	Agilent	E4407B	MY41440292	May.08, 10	1 Year
3	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May.08, 10	1 Year
4	Amplifier	HP	8447D	2648A04738	May.08, 10	1 Year
5	Bilog Antenna	Schaffner	CBL6111C	2598	Dec.14, 09	1 Year
6	RF Cable	MIYAZAKI	8D-FB	3# Chamber No.1	May.08, 10	1 Year
7	Coaxial Switch	Anritsu	MP59B	M73989	May.08, 10	1 Year

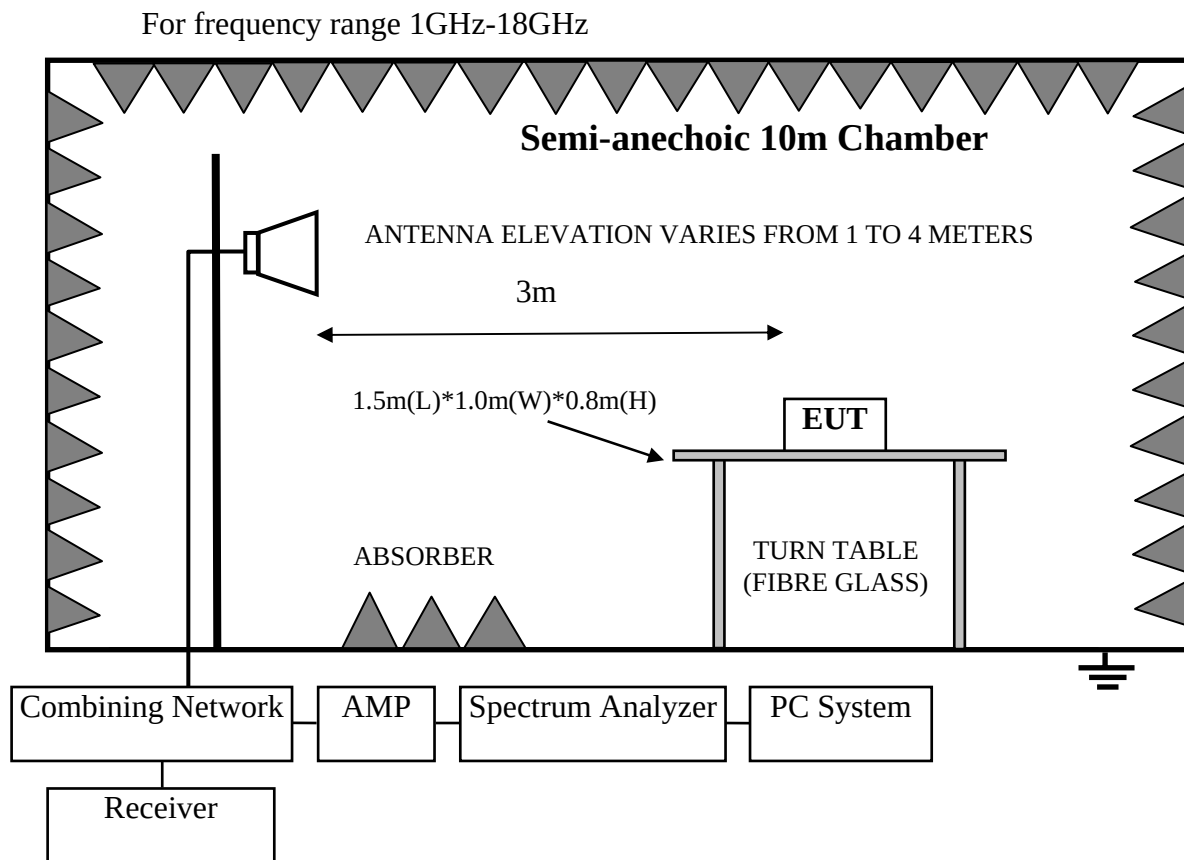
Frequency rang: above 1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08, 10	1 Year
2	Horn Antenna	EMCO	3115	9607-4877	Nov.25, 09	1.5 Year
3	Horn Antenna	EMCO	3116	00060089	Nov.25, 09	1.5 Year
4	Amplifier	Agilent	8449B	3008A00863	May.08, 10	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	May.08, 10	1 Year
6	RF Cable	Hubersuhner	SUCOFLEX102	29091/2	May.08, 10	1 Year

4.2. Block Diagram of Test Setup

For frequency range 30MHz-1000MHz





4.3. Radiated Emission Limit

4.3.1. 15.209 limits

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
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 following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.4.1. 300Mbps High Gain Wireless N USB Adapter (EUT)

Model Number : TL-WN822N

Serial Number : N/A

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

4.5.Operating Condition of EUT

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

4.5.2. Turned on the power of all equipment.

4.5.3. PC run test software to control EUT work in test mode.

4.6.Test Procedure

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

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

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

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

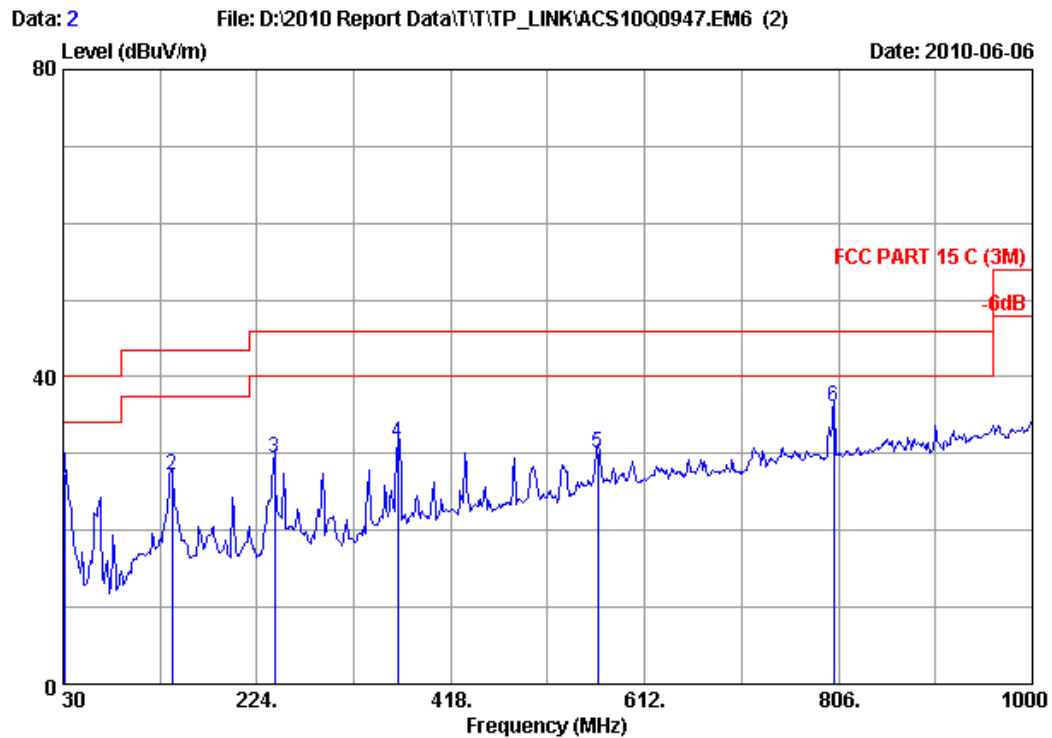
4.7.Radiated Emission Test Results

PASS.

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

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

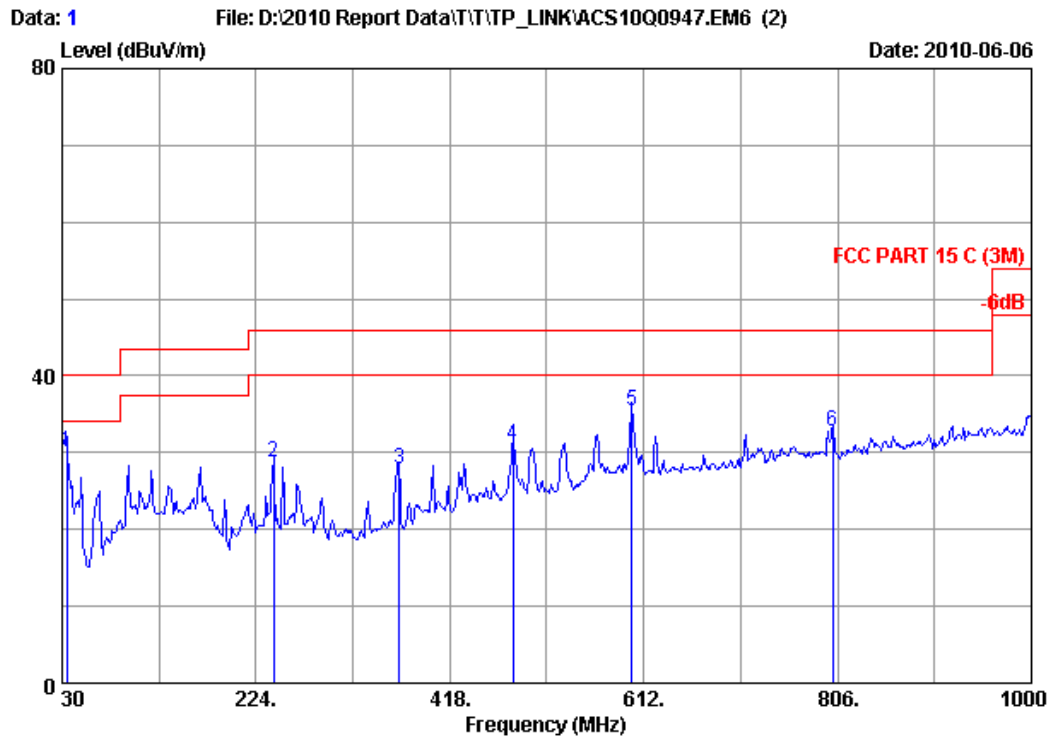
Frequency: 30MHz~1GHz



Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2010 CBL6111C Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 24°C/56% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power Rating : DC 5V From PC input AC 120V/60Hz
 Test Mode : Tx Mode
 TL-WN822N

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.940	18.88	0.63	7.99	27.50	40.00	12.50	QP
2	138.640	12.02	1.14	13.92	27.08	43.50	16.42	QP
3	241.460	11.93	2.09	15.44	29.46	46.00	16.54	QP
4	364.650	15.55	2.76	13.19	31.50	46.00	14.50	QP
5	565.440	19.61	3.92	6.56	30.09	46.00	15.91	QP
6	801.150	22.00	4.90	9.11	36.01	46.00	9.99	QP

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

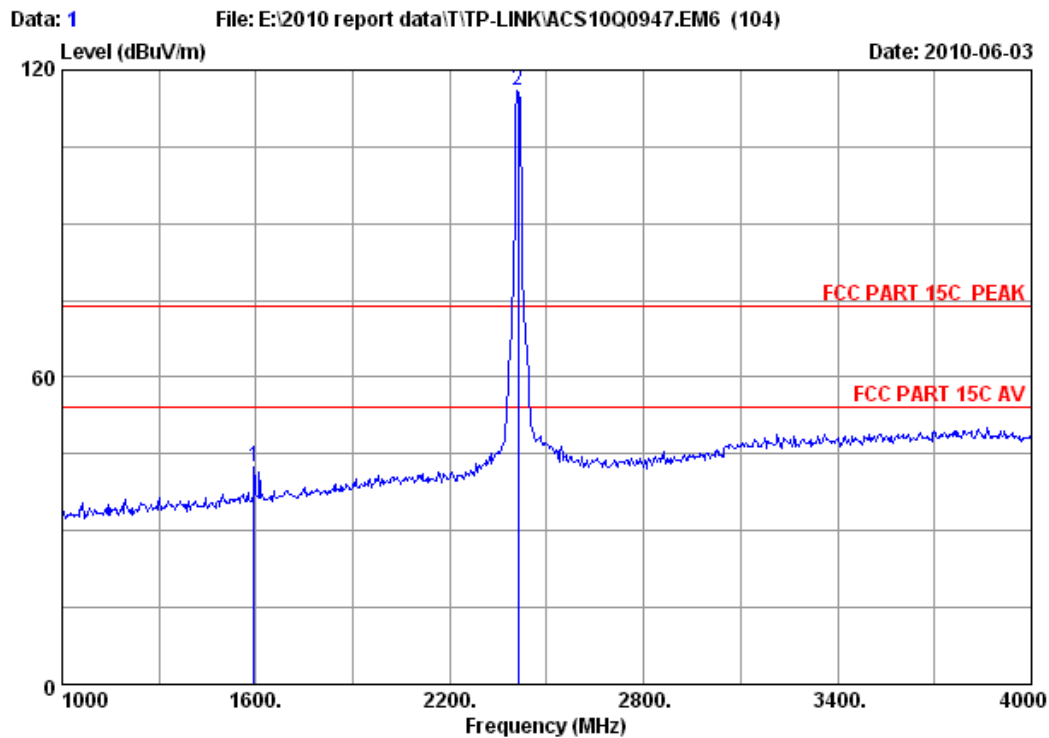


Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m 2010 CBL6111C Ant. pol. : VERTICAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 24°C/56% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power Rating : DC 5V From PC input AC 120V/60Hz
 Test Mode : Tx Mode
 TL-WN822N

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	34.850	17.20	0.65	12.28	30.13	40.00	9.87	QP
2	241.460	11.93	2.09	14.70	28.72	46.00	17.28	QP
3	367.560	15.53	2.77	9.54	27.84	46.00	18.16	QP
4	481.050	18.11	3.43	9.35	30.89	46.00	15.11	QP
5	600.360	19.90	4.12	11.42	35.44	46.00	10.56	QP
6	801.150	22.00	4.90	5.75	32.65	46.00	13.35	QP

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

Frequency: 1GHz~18GHz

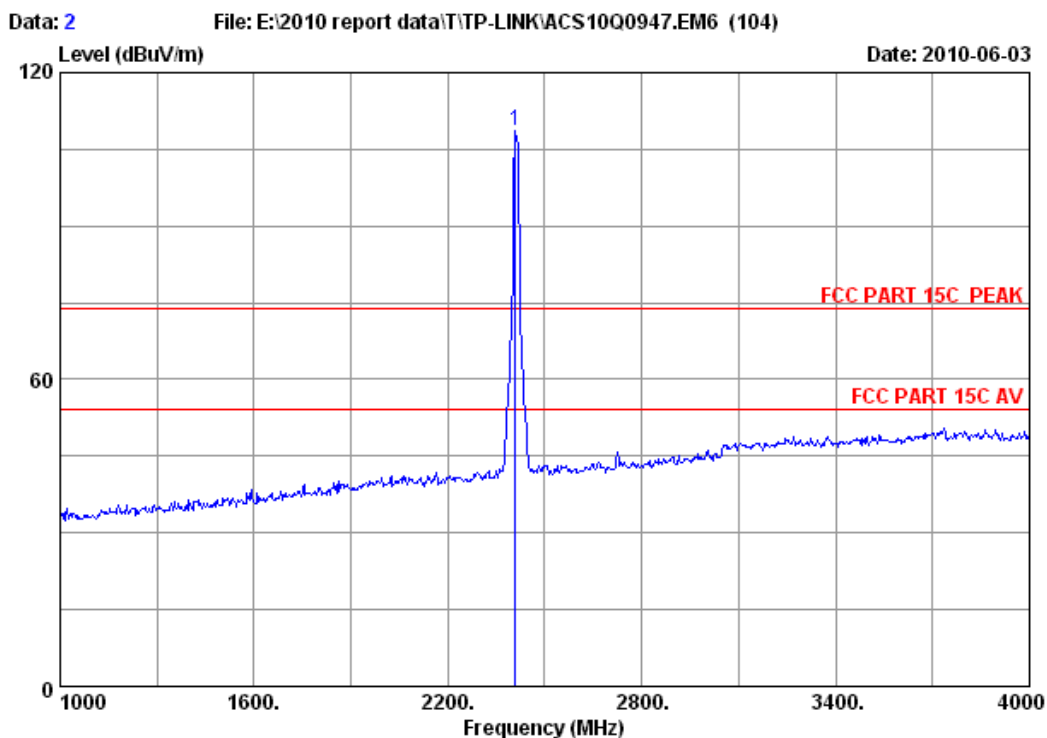


Site no. : 10m Chamber Data no. : 1
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TL-WN822N

	Ant.	Cable	Amp.		Emission				
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)	
1	1594.000	26.96	6.92	36.43	44.96	42.41	74.00	31.59	Peak
2	2412.000	29.45	8.72	35.95	113.69	115.91	74.00	-41.91	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.

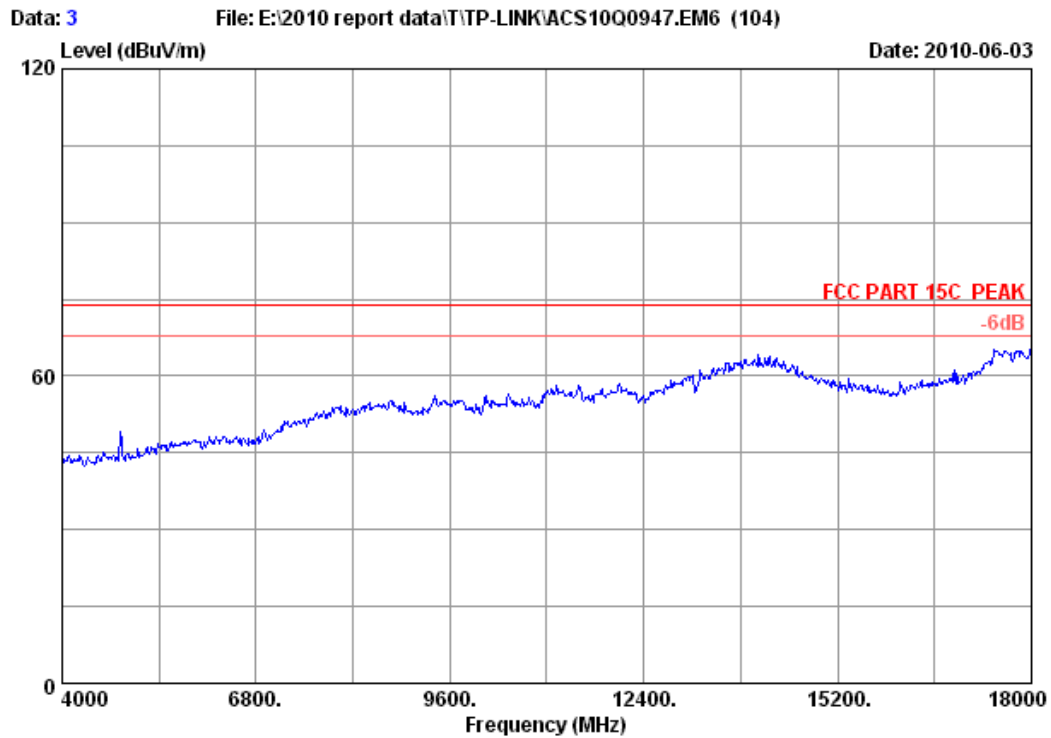


Site no. : 10m Chamber Data no. : 2
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TL-WN822N

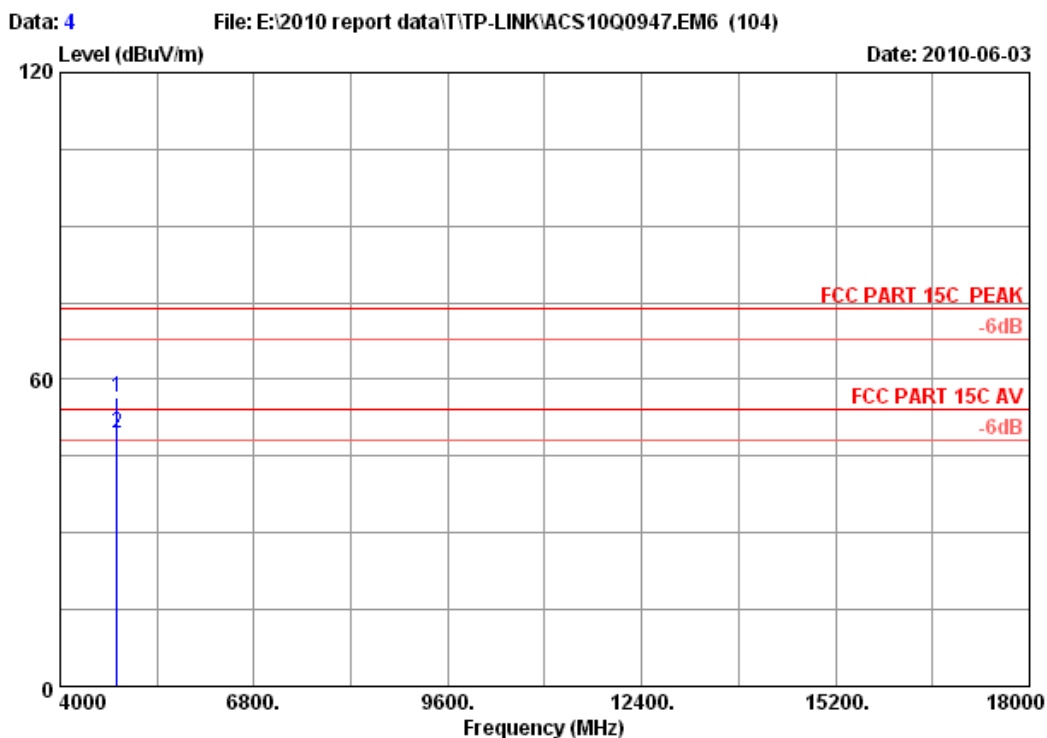
	Ant.	Cable	Amp.		Emission			
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)	
1 2410.000	29.45	8.72	35.95	106.41	108.63	74.00	-34.63	Peak

Remarks:

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



Site no.	: 10m Chamber	Data no.	: 3
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Sunny-lu
EUT	: 300Mbps High Gain Wireless N USB Adapter		
Power	: DC 5V From PC Input AC 120V/60Hz		
Test mode	: IEEE802.11b CH1 2412MHz Tx		
M/N	: TL-WN822N		

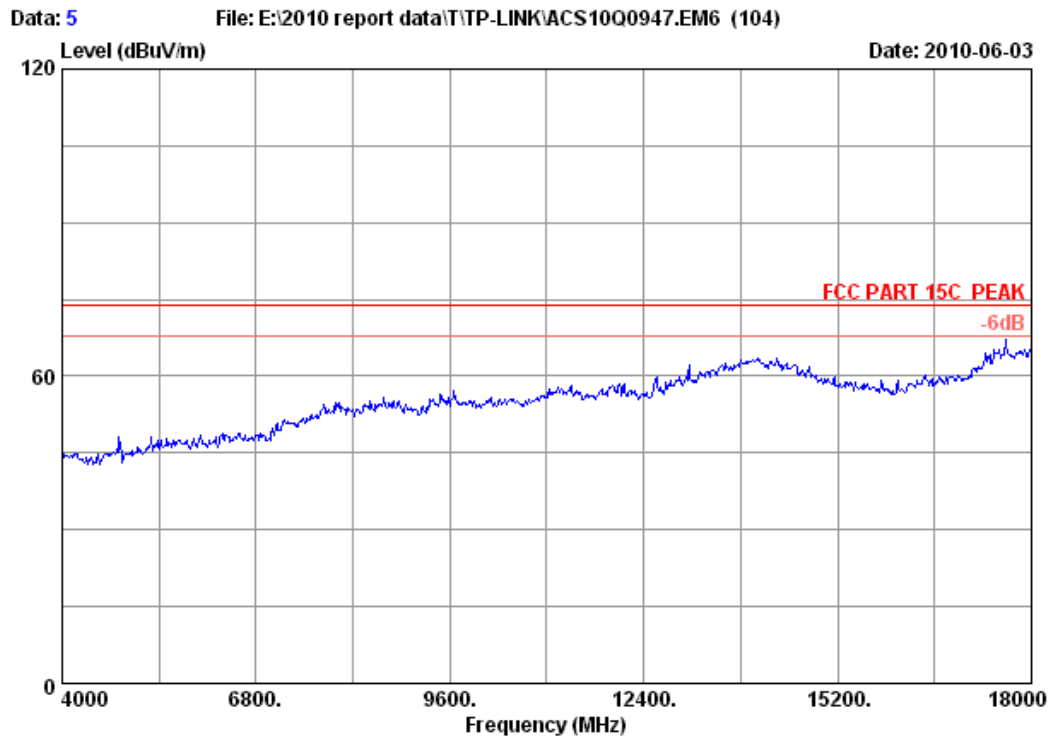


Site no. : 10m Chamber Data no. : 4
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TL-WN822N

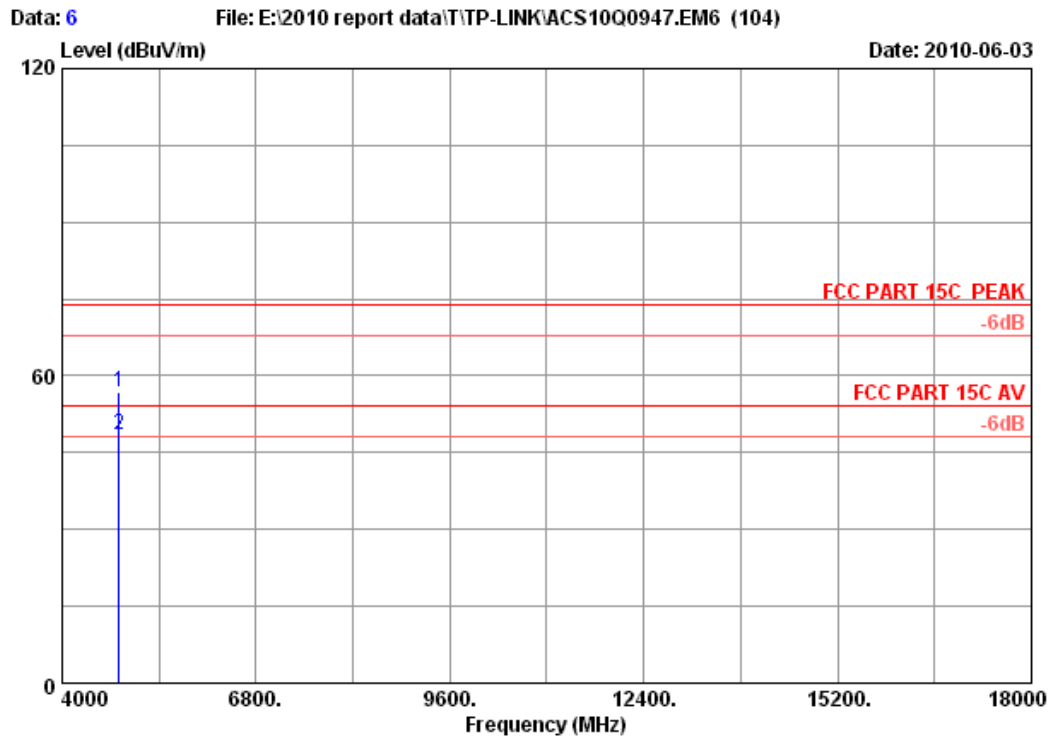
	Ant.	Cable	Amp.		Emission				
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4824.000	34.32	12.38	35.25	45.12	56.57	74.00	17.43	Peak
2	4824.000	34.32	12.38	35.25	38.01	49.46	54.00	4.54	Average

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.	: 10m Chamber	Data no.	: 5
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Sunny-lu
EUT	: 300Mbps High Gain Wireless N USB Adapter		
Power	: DC 5V From PC Input AC 120V/60Hz		
Test mode	: IEEE802.11b CH1 2412MHz Tx		
M/N	: TL-WN822N		

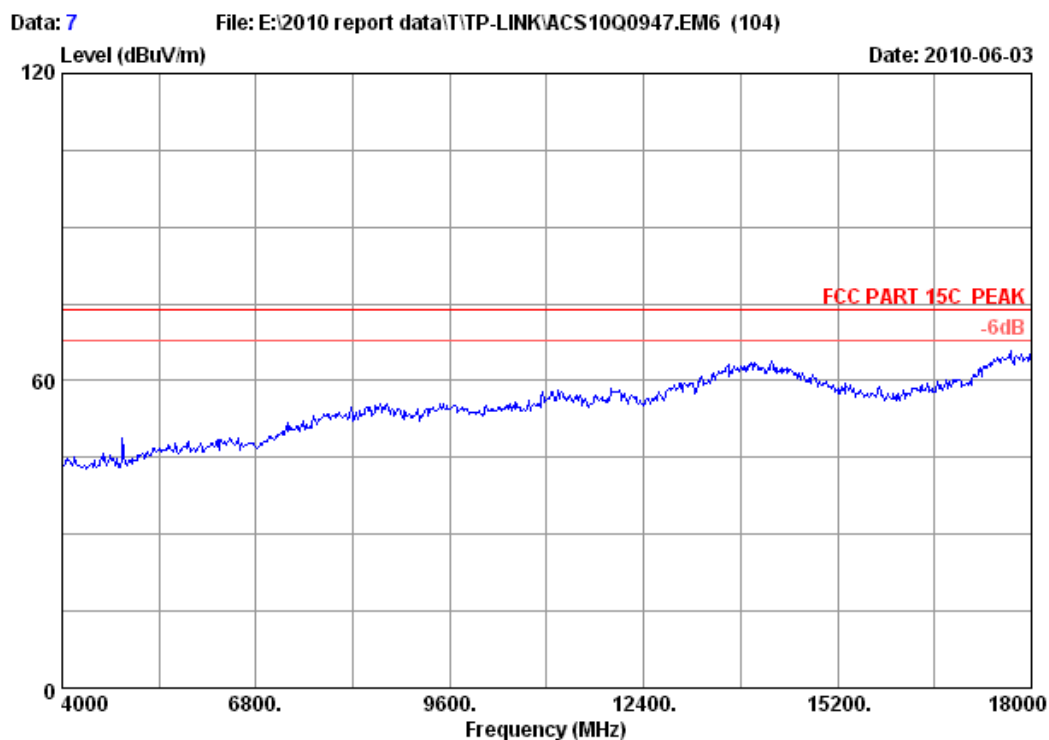


Site no. : 10m Chamber Data no. : 6
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TL-WN822N

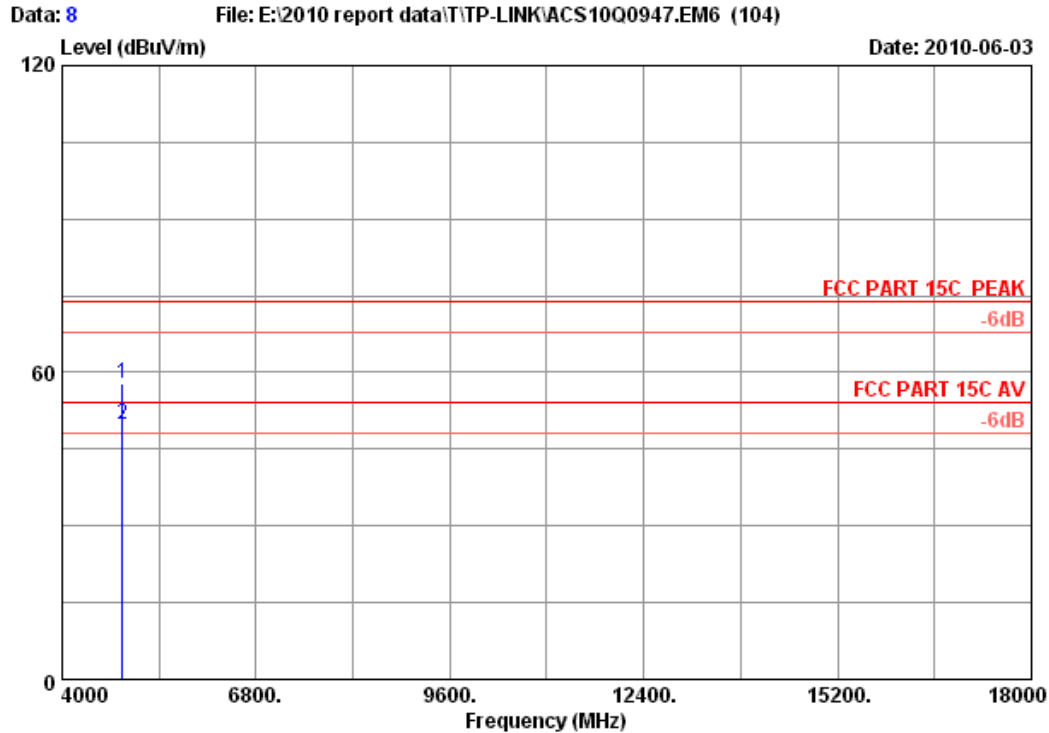
	Ant.	Cable	Amp.		Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 4824.000	34.32	12.38	35.25	45.53	56.98	74.00	17.02	Peak	
2 4824.000	34.32	12.38	35.25	36.88	48.33	54.00	5.67	Average	

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.	: 10m Chamber	Data no.	: 7
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Sunny-lu
EUT	: 300Mbps High Gain Wireless N USB Adapter		
Power	: DC 5V From PC Input AC 120V/60Hz		
Test mode	: IEEE802.11b CH6 2437MHz Tx		
M/N	: TL-WN822N		

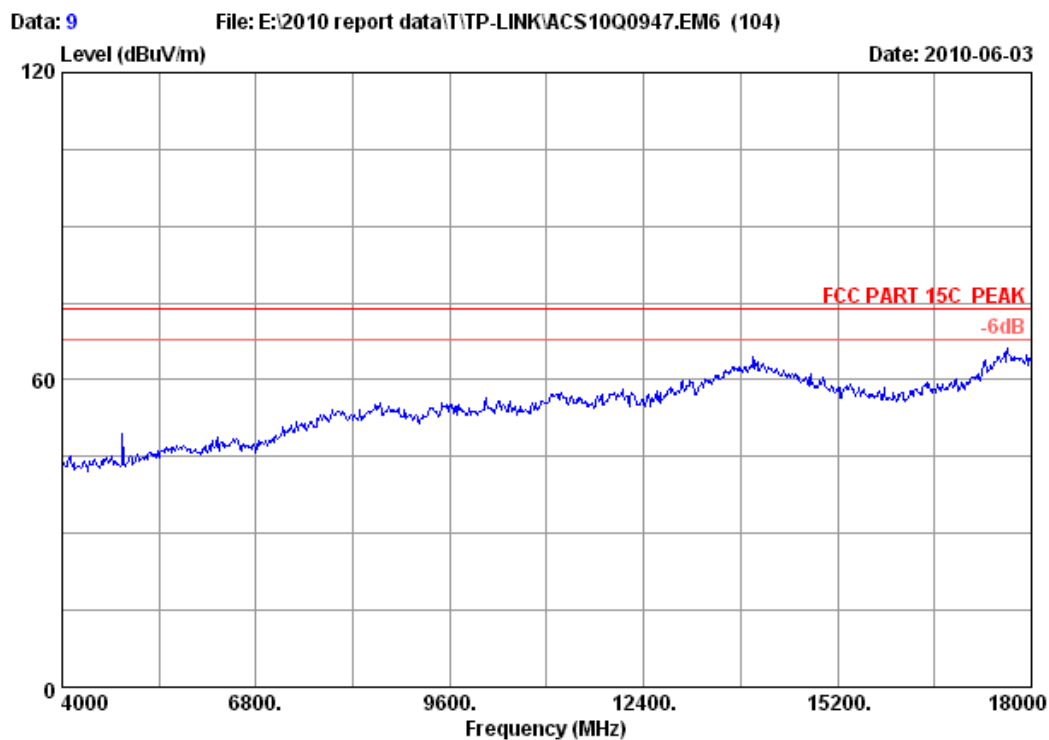


Site no. : 10m Chamber Data no. : 8
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz Tx
 M/N : TL-WN822N

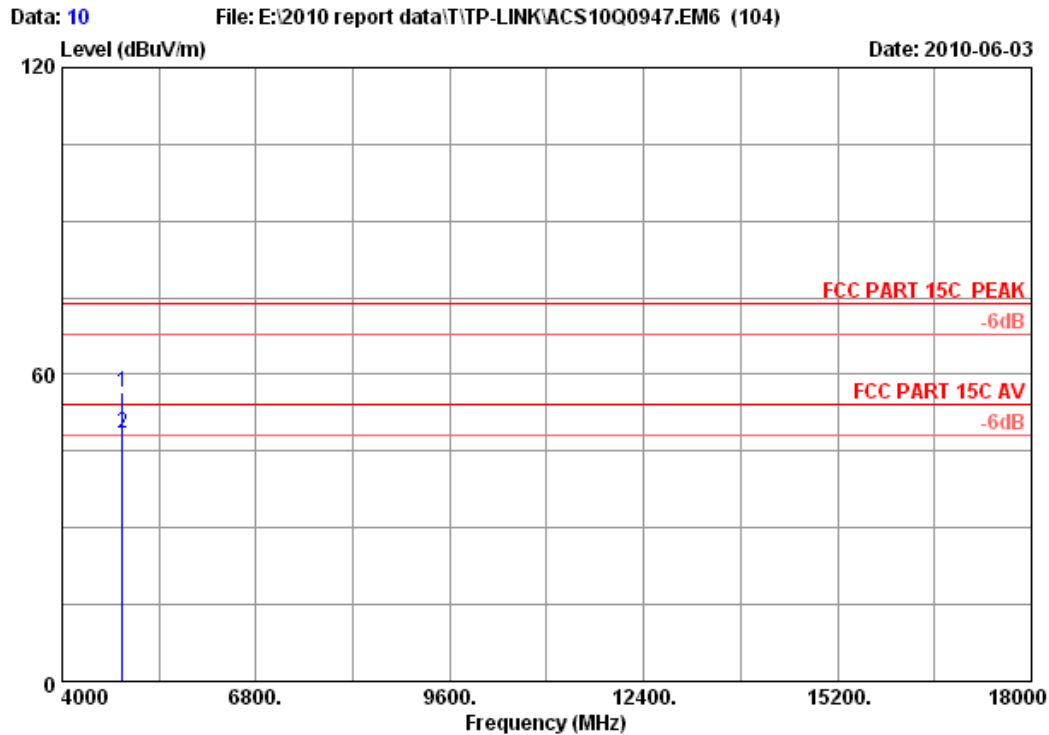
	Ant.	Cable	Amp.		Emission				
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4874.000	34.41	12.44	35.36	46.26	57.75	74.00	16.25	Peak
2	4874.000	34.41	12.44	35.36	38.28	49.77	54.00	4.23	Average

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.	: 10m Chamber	Data no.	: 9
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Sunny-lu
EUT	: 300Mbps High Gain Wireless N USB Adapter		
Power	: DC 5V From PC Input AC 120V/60Hz		
Test mode	: IEEE802.11b CH6 2437MHz Tx		
M/N	: TL-WN822N		

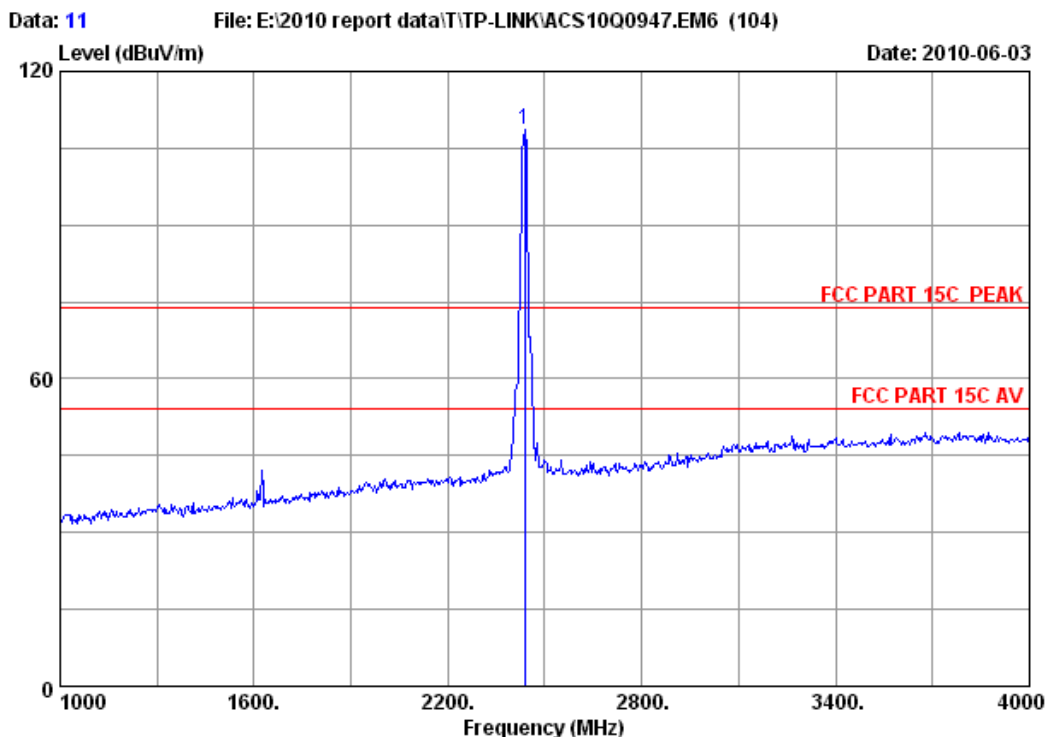


Site no. : 10m Chamber Data no. : 10
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz Tx
 M/N : TL-WN822N

	Ant.	Cable	Amp.		Emission				
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4874.000	34.41	12.44	35.36	44.98	56.47	74.00	17.53	Peak
2	4874.000	34.41	12.44	35.36	36.93	48.42	54.00	5.58	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.

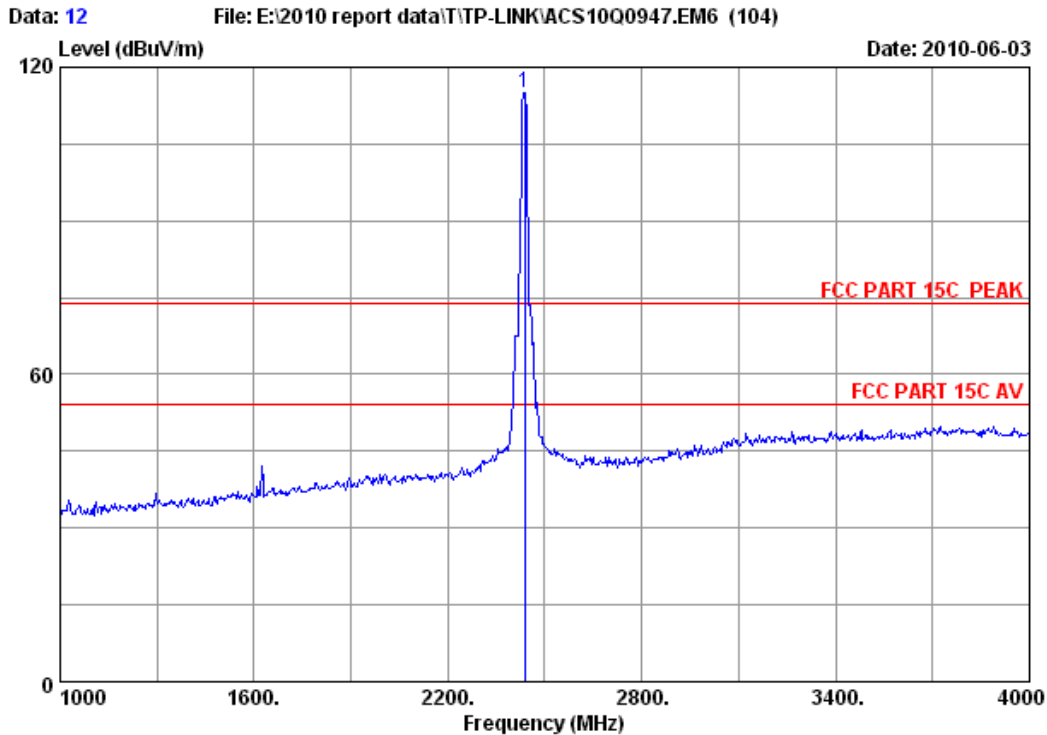


Site no. : 10m Chamber Data no. : 11
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz Tx
 M/N : TL-WN822N

	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	29.47	8.77	36.06	106.48	108.66	74.00	-34.66	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.

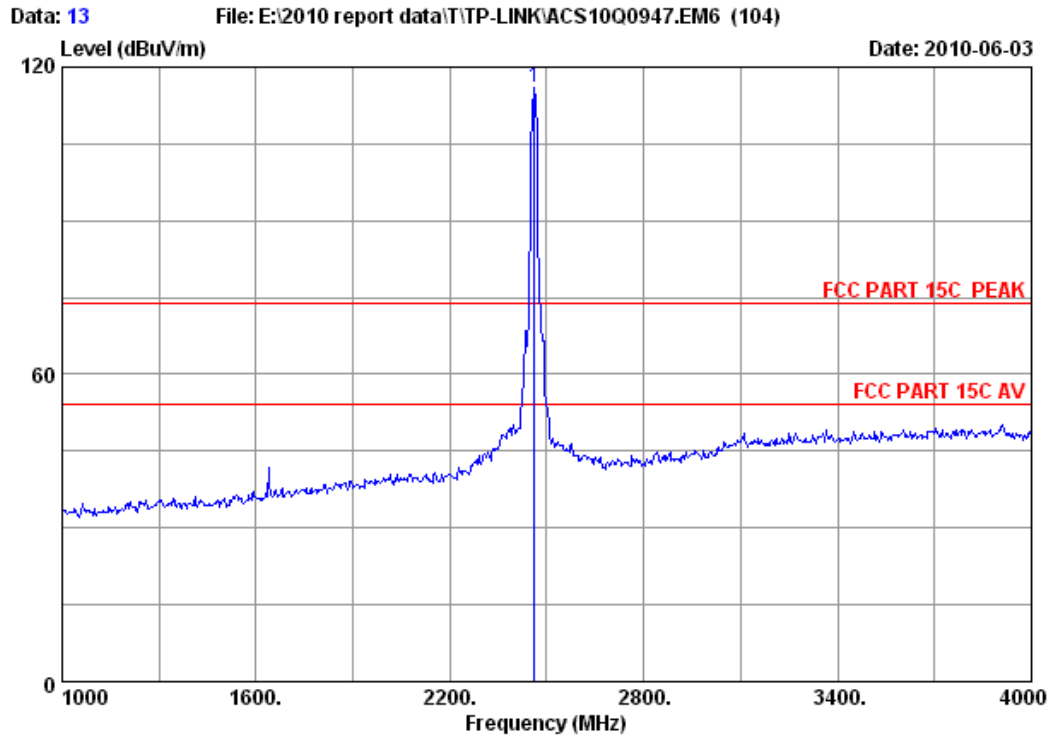


Site no. : 10m Chamber Data no. : 12
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH6 2437MHz Tx
 M/N : TL-WN822N

		Ant.	Cable	Amp.		Emission			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)	
1	2437.000	29.47	8.77	36.06	112.87	115.05	74.00	-41.05	Peak

Remarks:

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

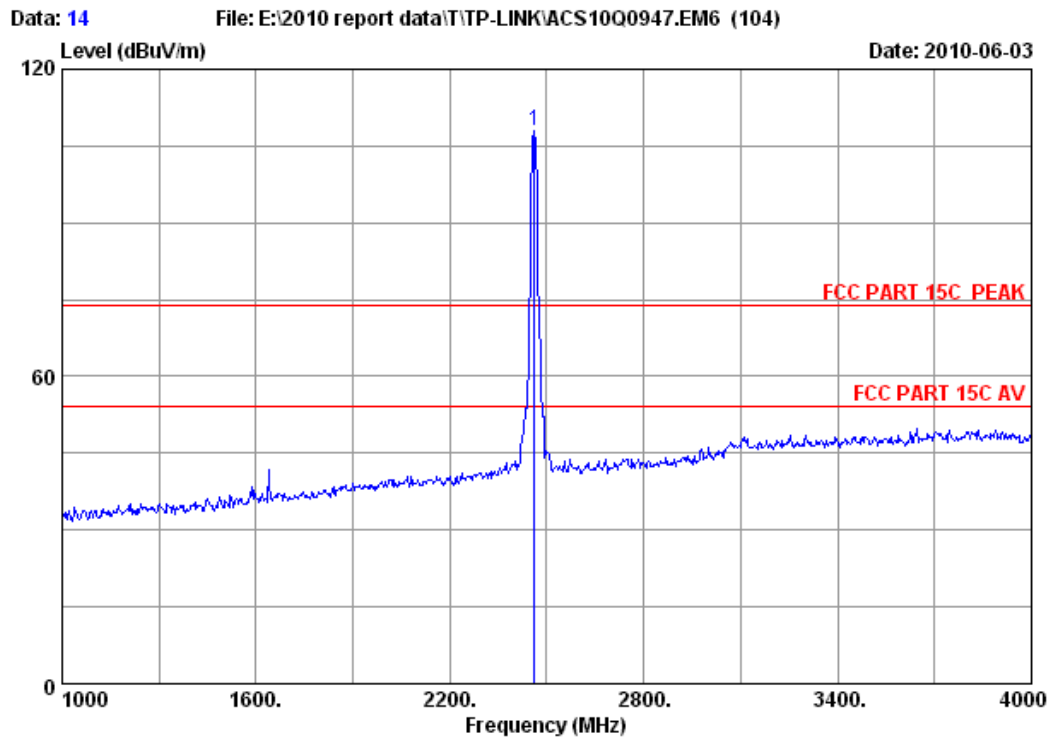


Site no. : 10m Chamber Data no. : 13
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TL-WN822N

	Ant.	Cable	Amp.		Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 2462.000	29.48	8.82	36.02	113.56	115.84	74.00	-41.84	Peak	

Remarks:

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

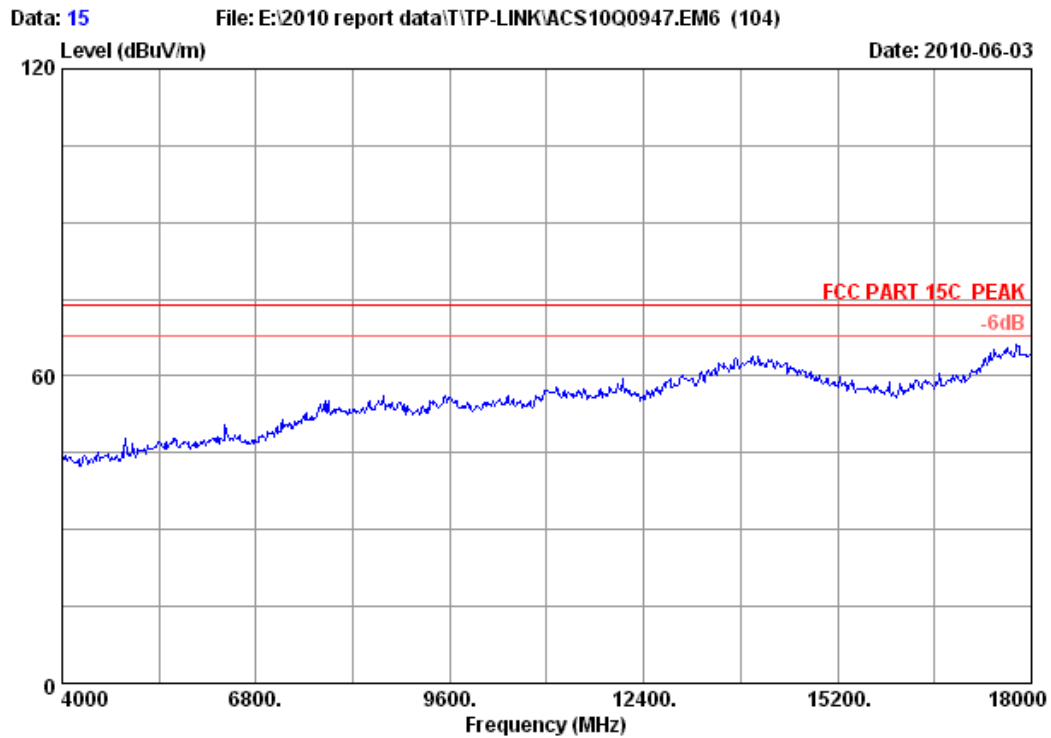


Site no. : 10m Chamber Data no. : 14
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TL-WN822N

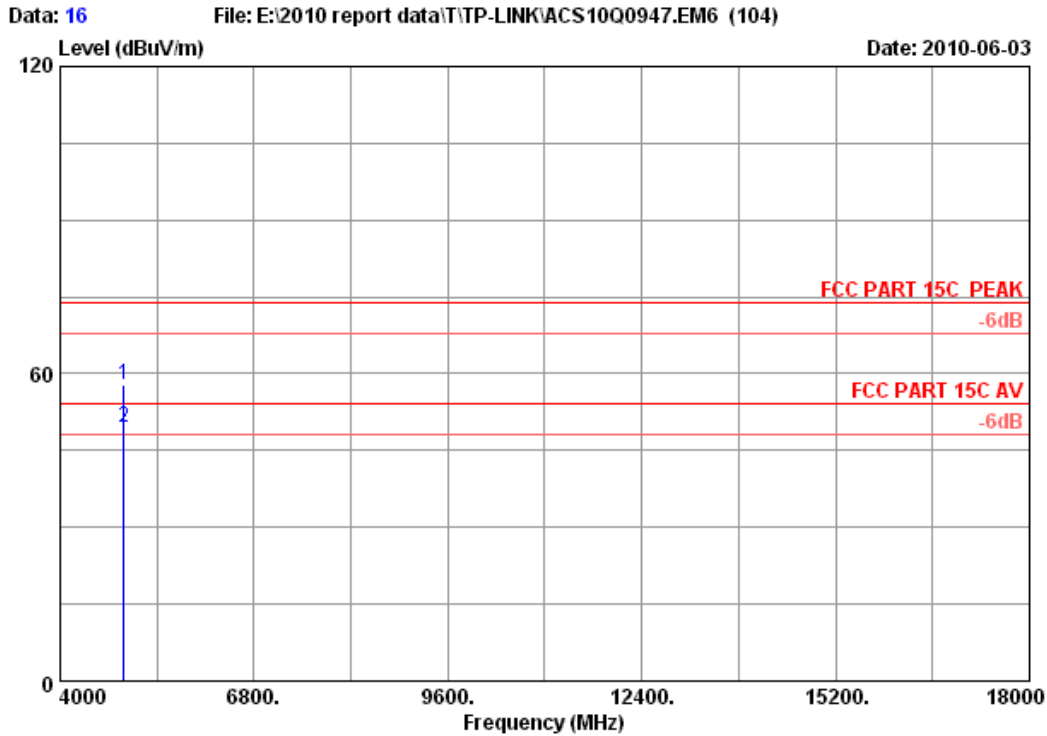
		Ant.	Cable	Amp.		Emission			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)	
1	2462.000	29.48	8.82	36.02	105.73	108.01	74.00	-34.01	Peak

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.	: 10m Chamber	Data no.	: 15
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Sunny-lu
EUT	: 300Mbps High Gain Wireless N USB Adapter		
Power	: DC 5V From PC Input AC 120V/60Hz		
Test mode	: IEEE802.11b CH11 2462MHz Tx		
M/N	: TL-WN822N		

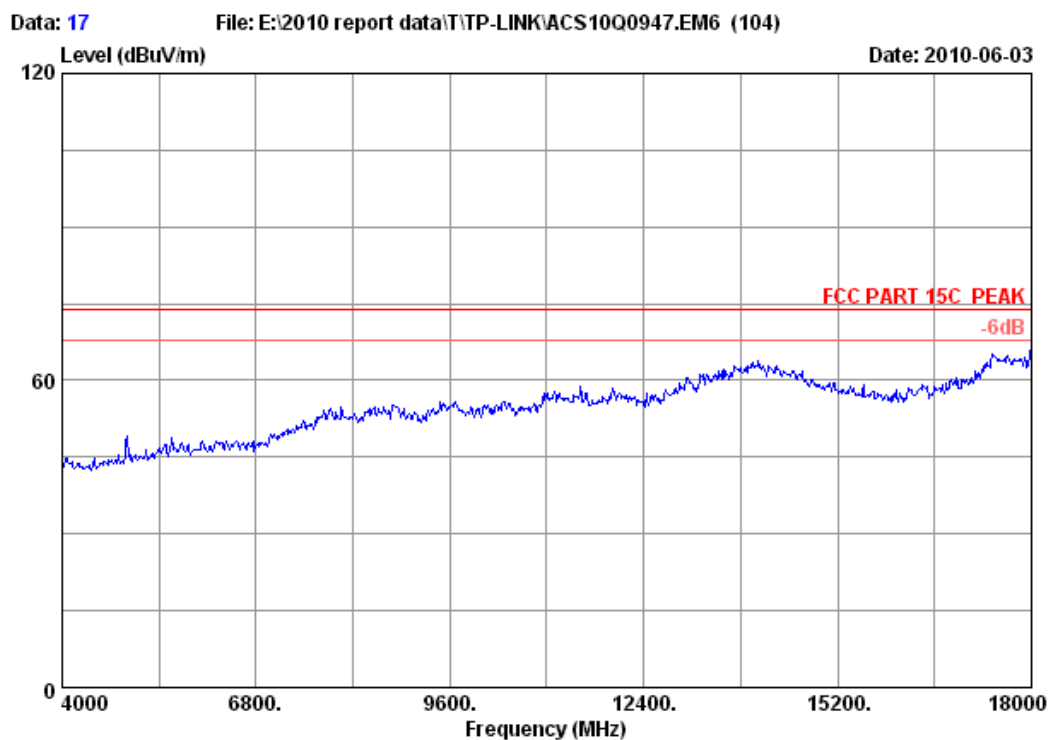


Site no. : 10m Chamber Data no. : 16
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TL-WN822N

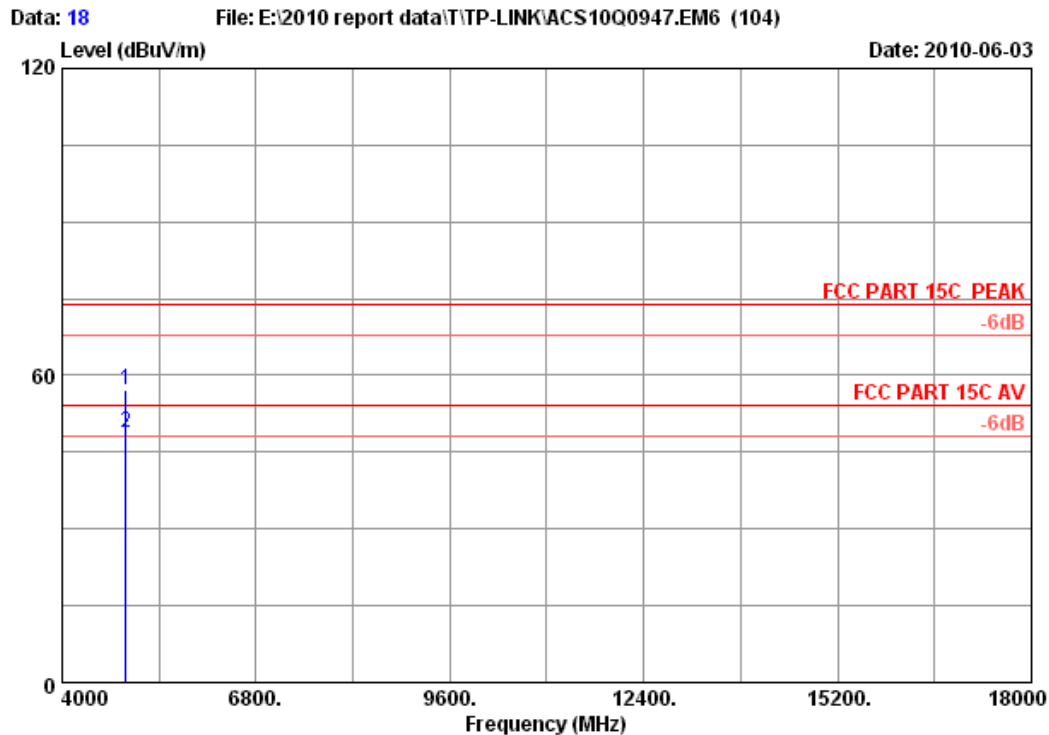
	Ant.	Cable	Amp.		Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 4924.000	34.49	12.50	35.34	46.20	57.85	74.00	16.15	Peak	
2 4924.000	34.49	12.50	35.34	37.71	49.36	54.00	4.64	Average	

Remarks:

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



Site no.	: 10m Chamber	Data no.	: 17
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Sunny-lu
EUT	: 300Mbps High Gain Wireless N USB Adapter		
Power	: DC 5V From PC Input AC 120V/60Hz		
Test mode	: IEEE802.11b CH11 2462MHz Tx		
M/N	: TL-WN822N		

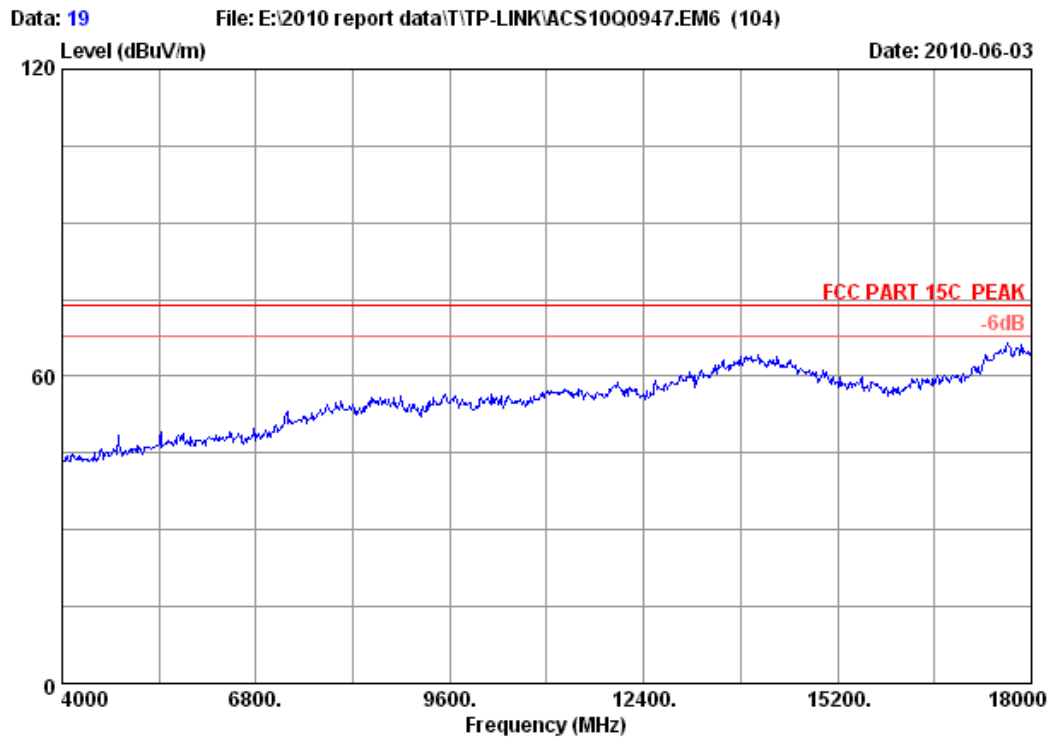


Site no. : 10m Chamber Data no. : 18
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TL-WN822N

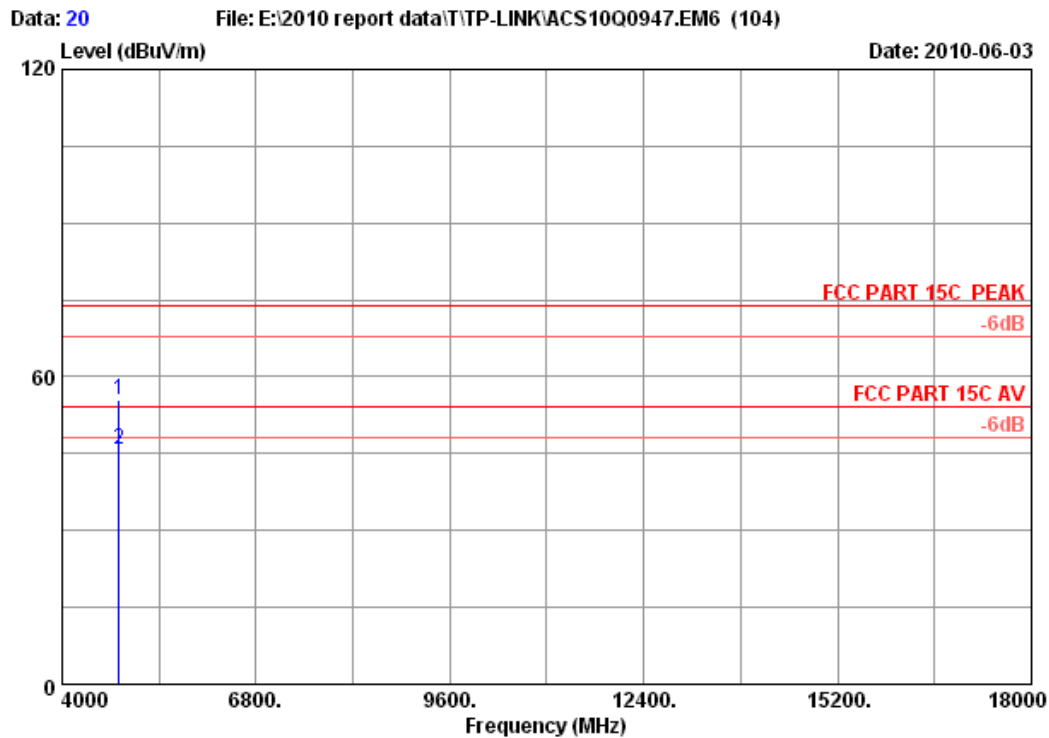
	Ant.	Cable	Amp.		Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4924.000	34.49	12.50	35.34	45.65	57.30	74.00	16.70	Peak
2	4924.000	34.49	12.50	35.34	37.14	48.79	54.00	5.21	Average

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.	: 10m Chamber	Data no.	: 19
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Sunny-lu
EUT	: 300Mbps High Gain Wireless N USB Adapter		
Power	: DC 5V From PC Input AC 120V/60Hz		
Test mode	: IEEE802.11g CH1 2412MHz Tx		
M/N	: TL-WN822N		

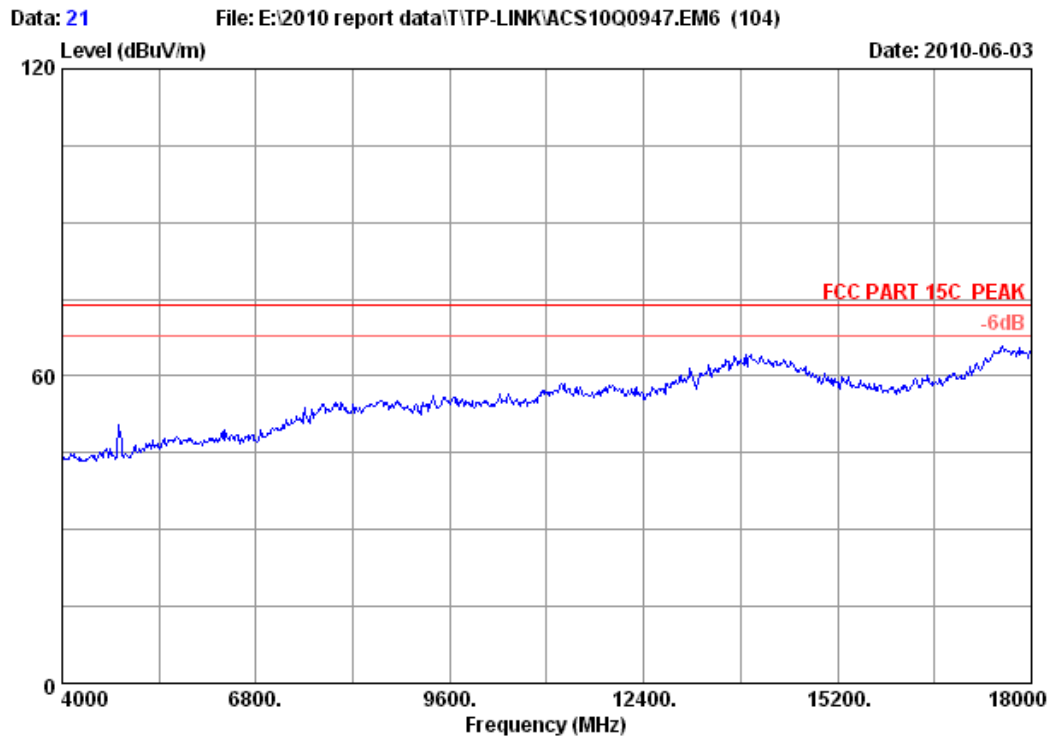


Site no. : 10m Chamber Data no. : 20
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TL-WN822N

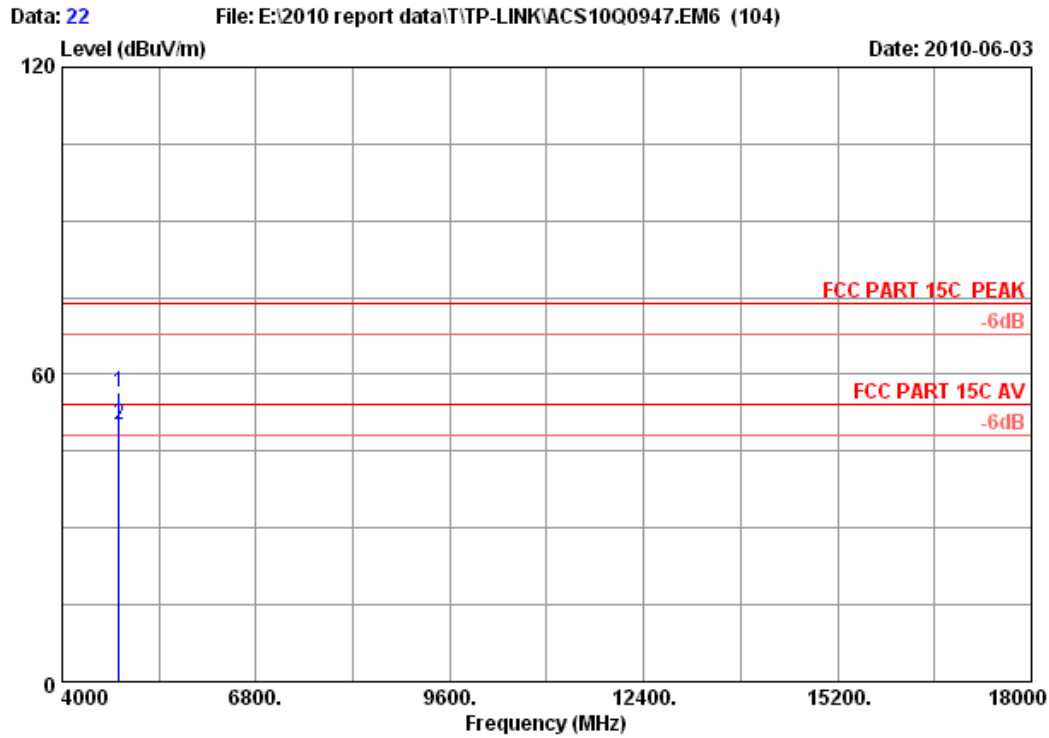
		Ant.	Cable	Amp.		Emission			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4824.000	34.32	12.38	35.25	44.07	55.52	74.00	18.48	Peak
2	4824.000	34.32	12.38	35.25	34.22	45.67	54.00	8.33	Average

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.	: 10m Chamber	Data no.	: 21
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Sunny-lu
EUT	: 300Mbps High Gain Wireless N USB Adapter		
Power	: DC 5V From PC Input AC 120V/60Hz		
Test mode	: IEEE802.11g CH1 2412MHz Tx		
M/N	: TL-WN822N		

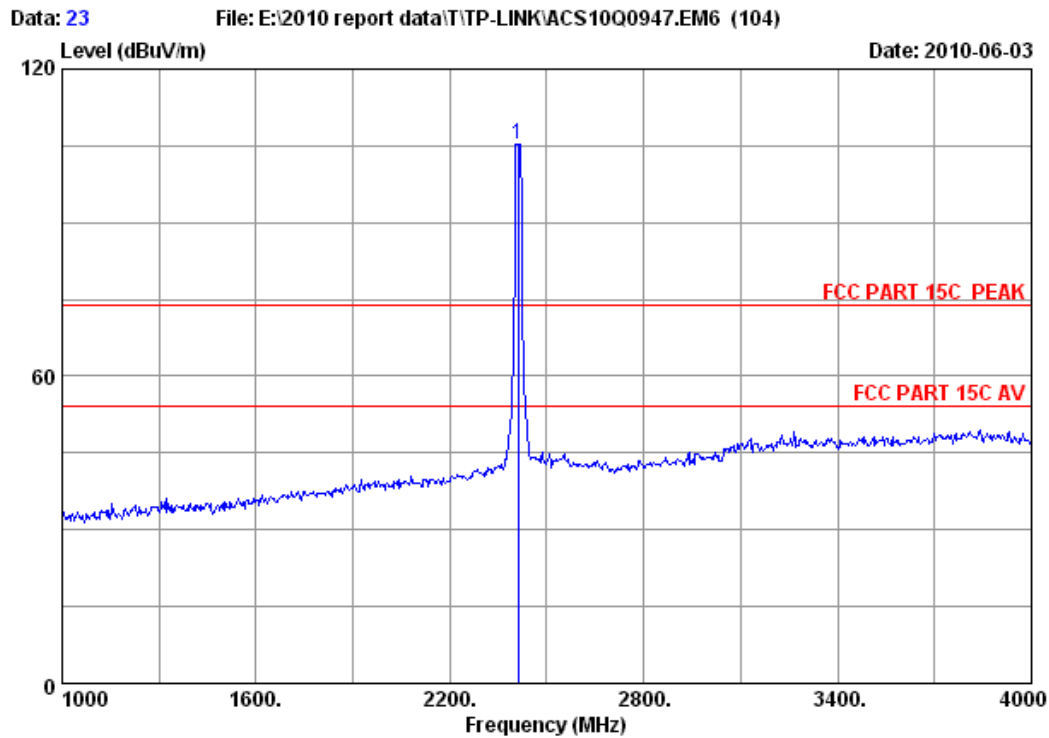


Site no. : 10m Chamber Data no. : 22
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TL-WN822N

		Ant.	Cable	Amp.		Emission			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4824.000	34.32	12.38	35.25	45.05	56.50	74.00	17.50	Peak
2	4824.000	34.32	12.38	35.25	38.84	50.29	54.00	3.71	Average

Remarks:

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

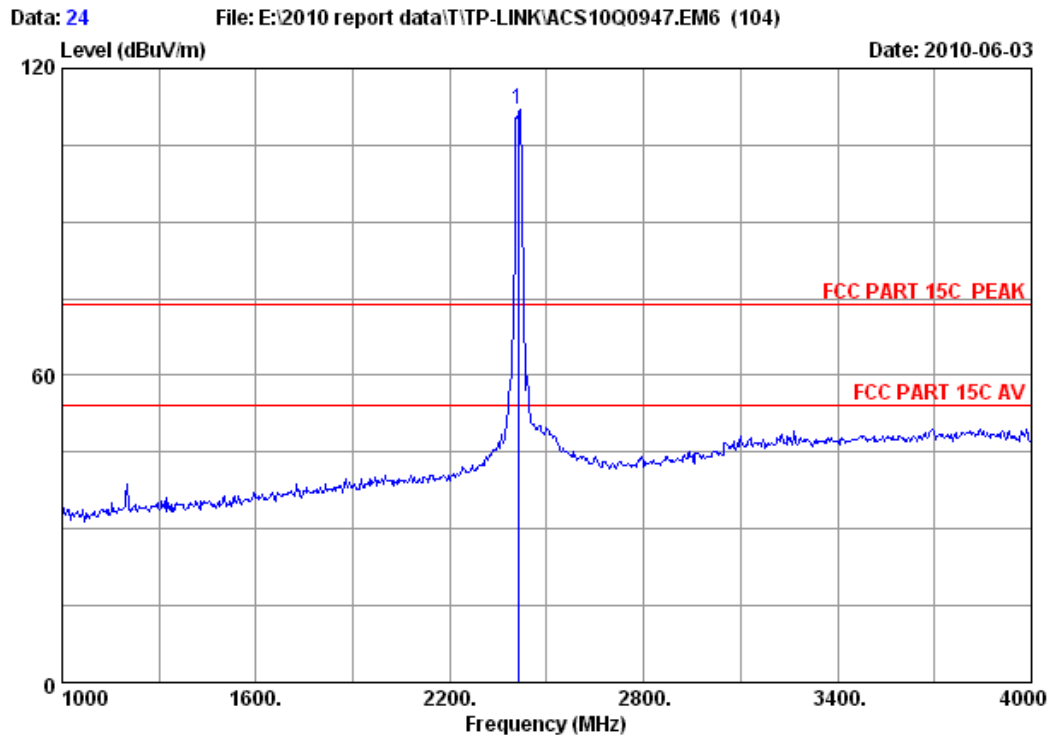


Site no. : 10m Chamber Data no. : 23
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TL-WN822N

	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	29.45	8.72	35.95	103.21	105.43	74.00	-31.43	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.

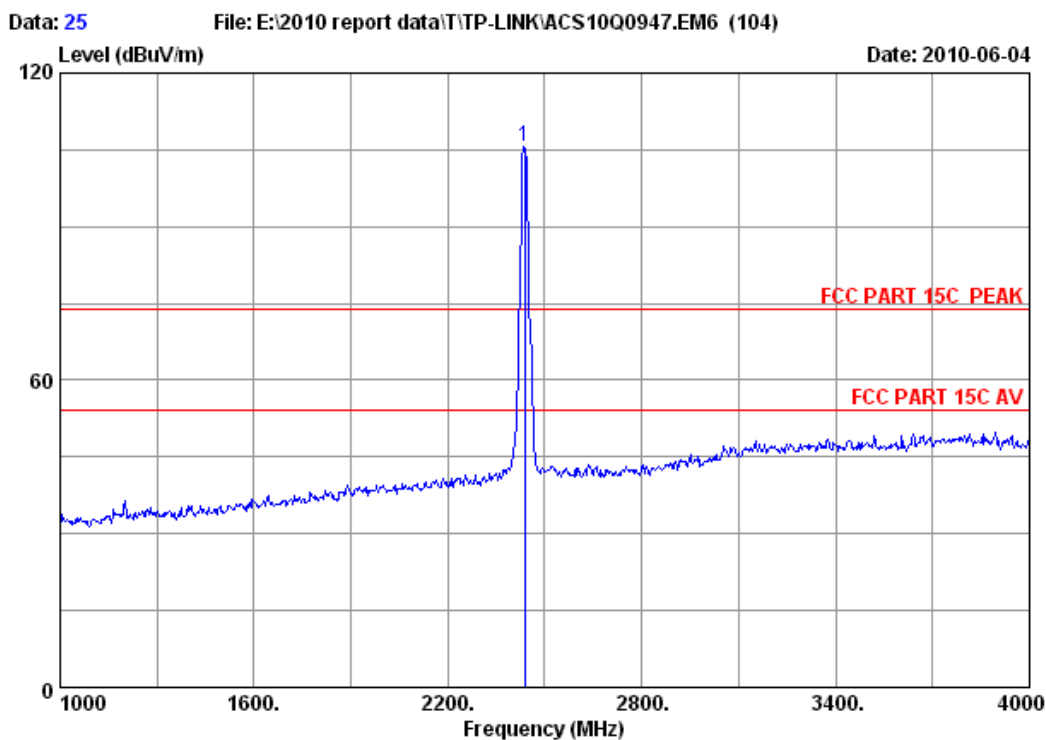


Site no. : 10m Chamber Data no. : 24
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TL-WN822N

	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	29.45	8.72	35.95	109.79	112.01	74.00	-38.01	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.

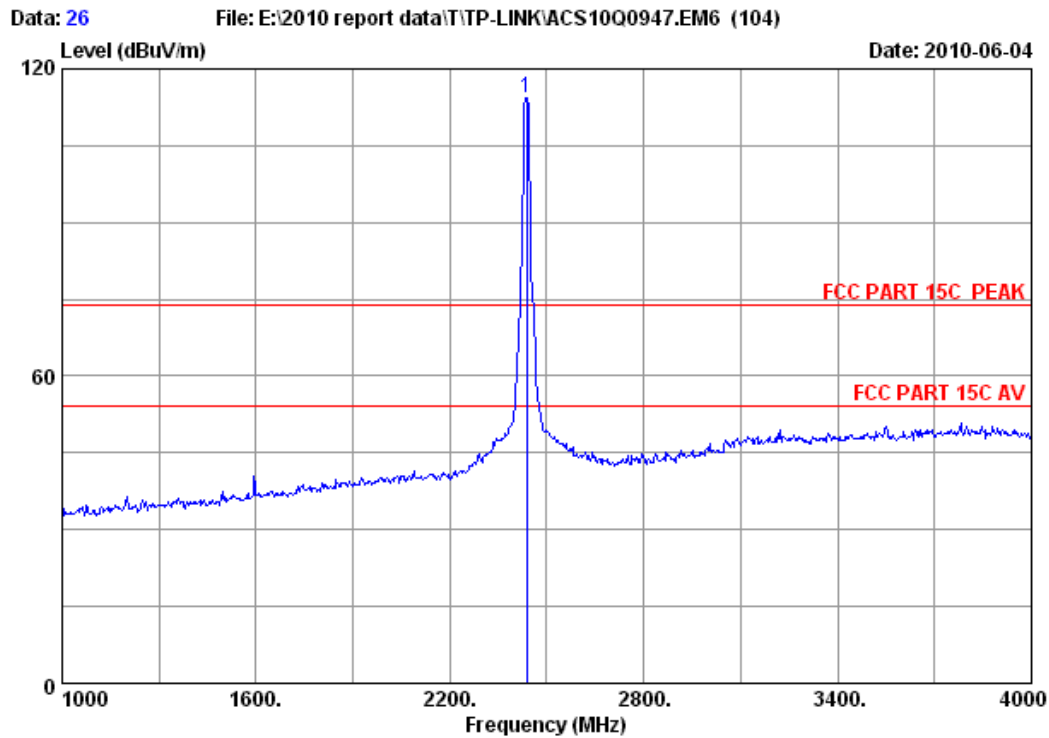


Site no. : 10m Chamber Data no. : 25
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz Tx
 M/N : TL-WN822N

	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	29.47	8.77	36.06	103.49	105.67	74.00	-31.67	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.

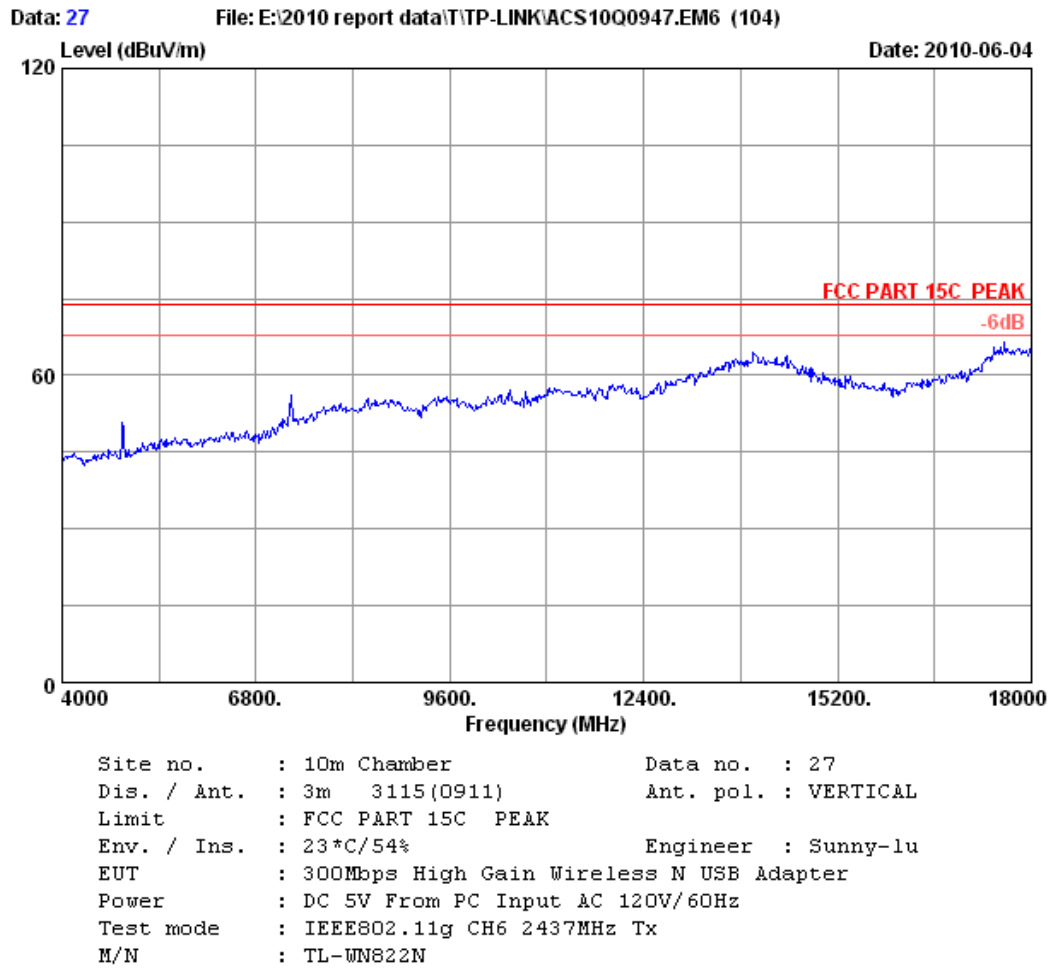


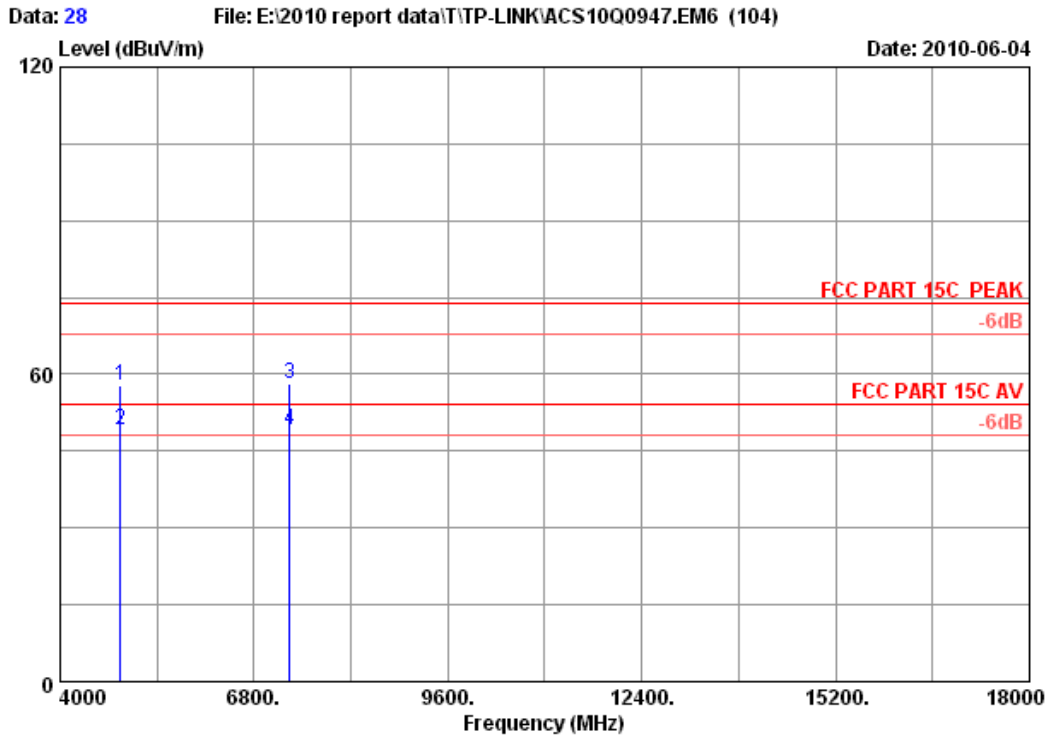
Site no. : 10m Chamber Data no. : 26
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz Tx
 M/N : TL-WN822N

	Ant.	Cable	Amp.		Emission			
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 2437.000	29.47	8.77	36.06	112.08	114.26	74.00	-40.26	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.



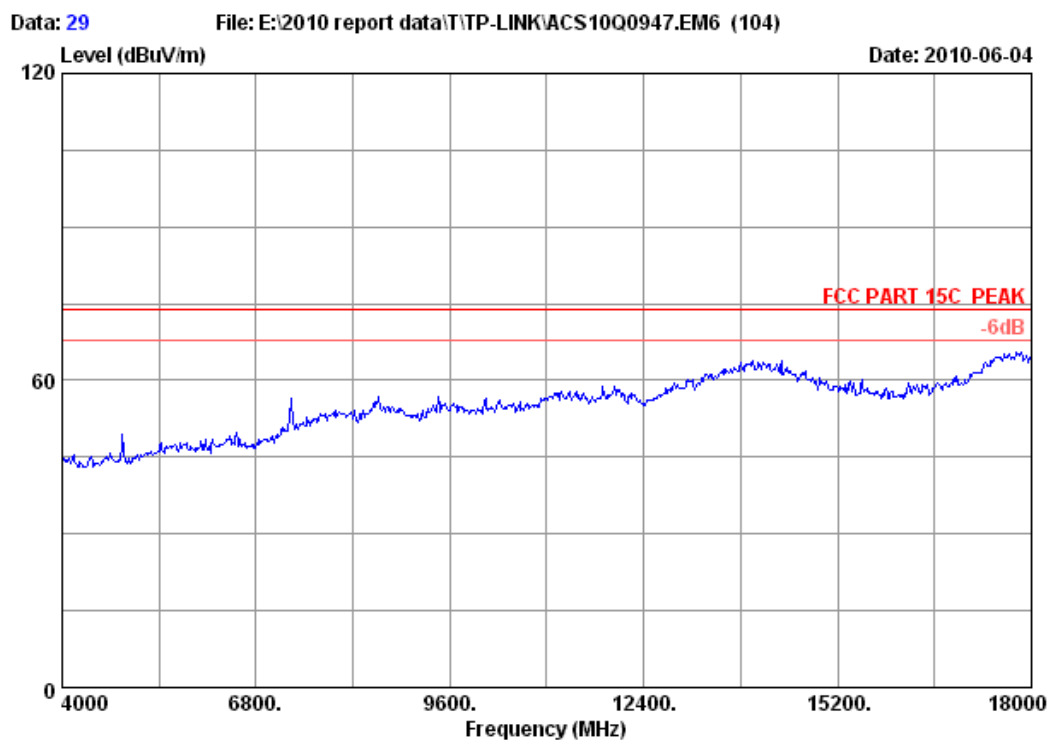


Site no. : 10m Chamber Data no. : 28
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz Tx
 M/N : TL-WN822N

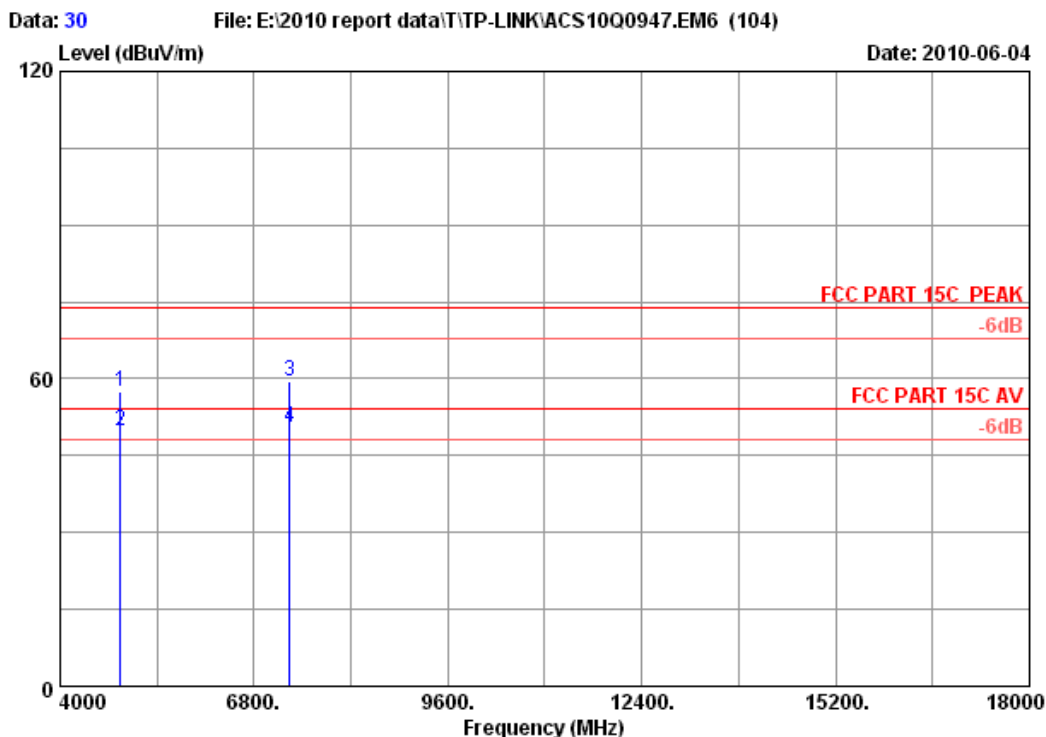
	Ant.	Cable	Amp.		Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 4874.000	34.41	12.44	35.36	46.19	57.68	74.00	16.32	Peak	
2 4874.000	34.41	12.44	35.36	37.78	49.27	54.00	4.73	Average	
3 7311.000	37.28	15.57	35.08	40.54	58.31	74.00	15.69	Peak	
4 7311.000	37.28	15.57	35.08	31.40	49.17	54.00	4.83	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.	: 10m Chamber	Data no.	: 29
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Sunny-lu
EUT	: 300Mbps High Gain Wireless N USB Adapter		
Power	: DC 5V From PC Input AC 120V/60Hz		
Test mode	: IEEE802.11g CH6 2437MHz Tx		
M/N	: TL-WN822N		

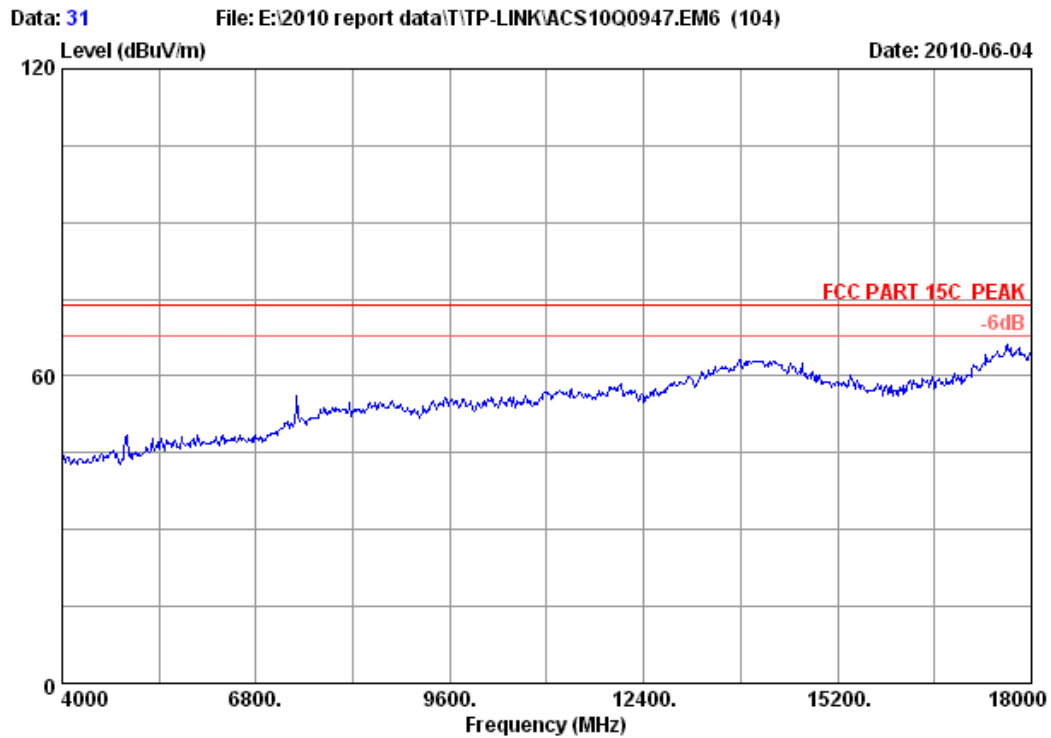


Site no. : 10m Chamber Data no. : 30
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH6 2437MHz Tx
 M/N : TL-WN822N

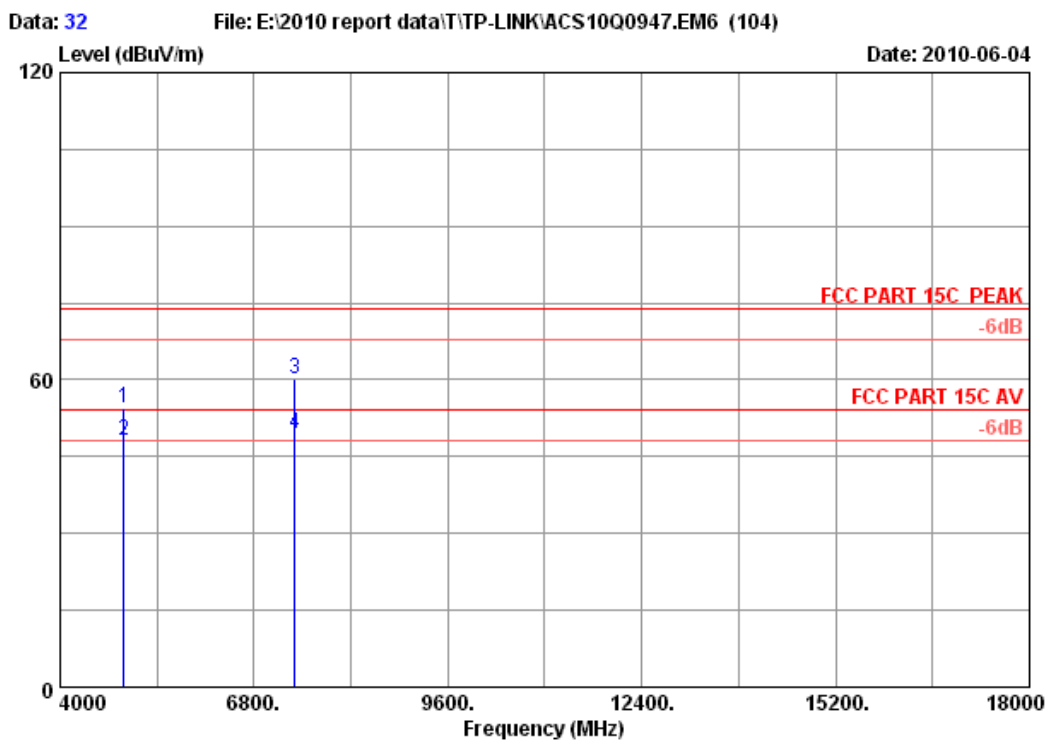
		Ant.	Cable	Amp.		Emission			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4874.000	34.41	12.44	35.36	46.07	57.56	74.00	16.44	Peak
2	4874.000	34.41	12.44	35.36	38.20	49.69	54.00	4.31	Average
3	7311.000	37.28	15.57	35.08	41.70	59.47	74.00	14.53	Peak
4	7311.000	37.28	15.57	35.08	32.85	50.62	54.00	3.38	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.	: 10m Chamber	Data no.	: 31
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Sunny-lu
EUT	: 300Mbps High Gain Wireless N USB Adapter		
Power	: DC 5V From PC Input AC 120V/60Hz		
Test mode	: IEEE802.11g CH11 2462MHz Tx		
M/N	: TL-WN822N		

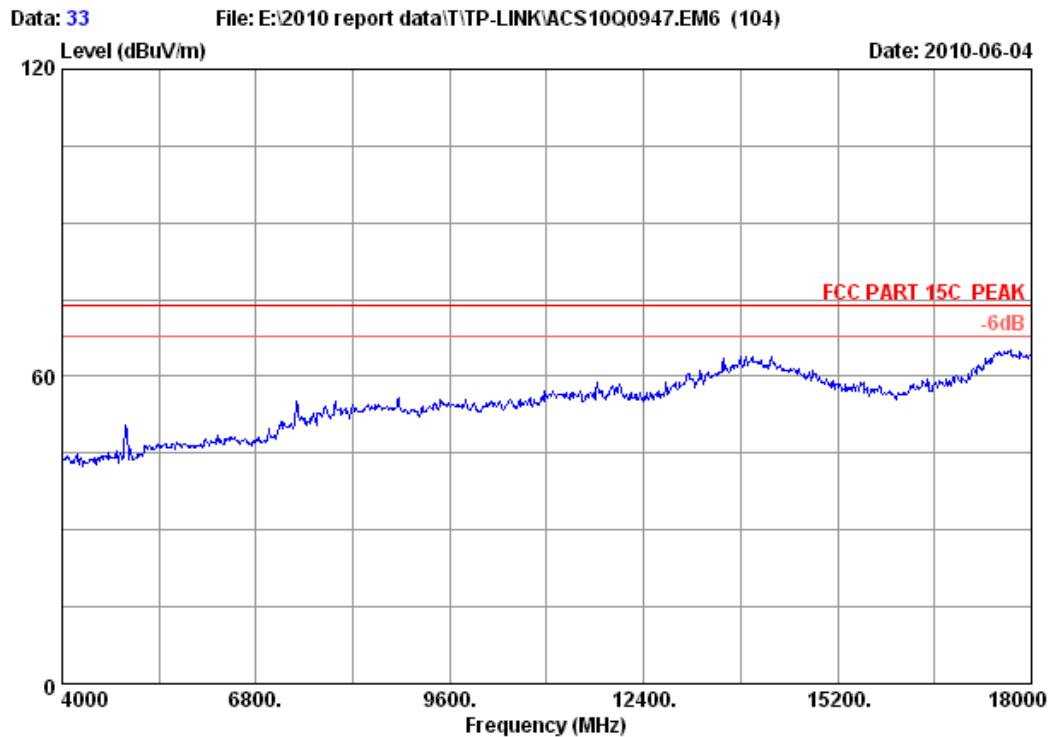


Site no. : 10m Chamber Data no. : 32
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Sunny-lu
EUT : 300Mbps High Gain Wireless N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz Tx
M/N : TL-WN822N

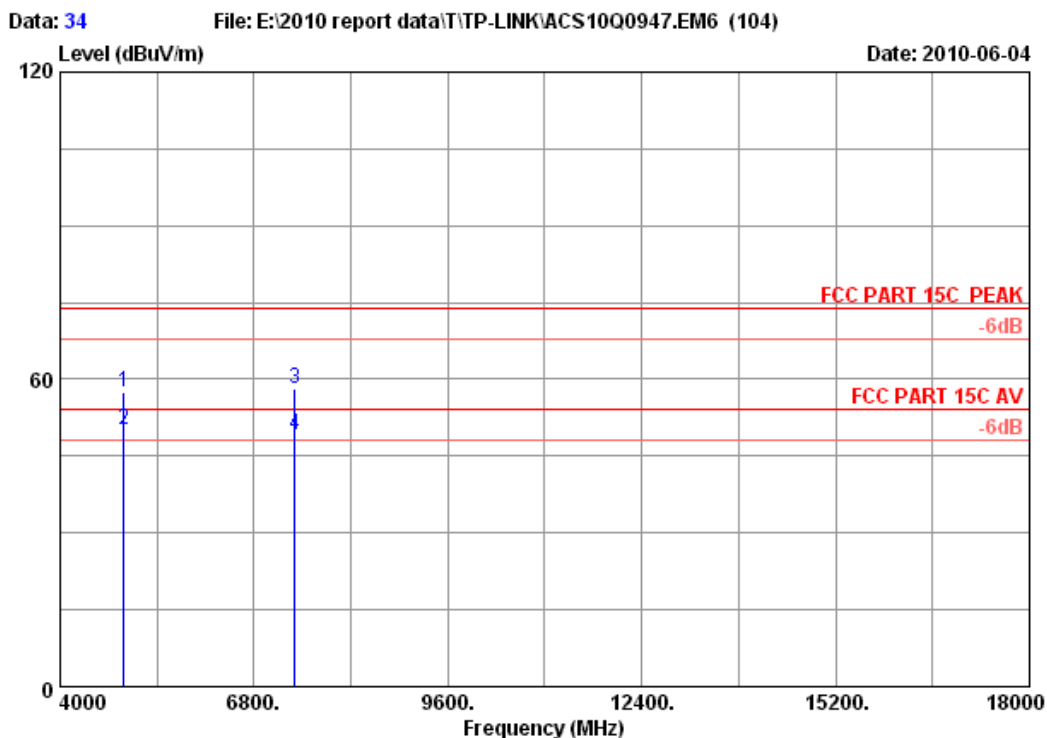
	Ant.	Cable	Amp.		Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 4924.000	34.49	12.50	35.34	42.85	54.50	74.00	19.50	Peak	
2 4924.000	34.49	12.50	35.34	36.58	48.23	54.00	5.77	Average	
3 7386.000	37.74	15.70	35.09	41.68	60.03	74.00	13.97	Peak	
4 7386.000	37.74	15.70	35.09	31.01	49.36	54.00	4.64	Average	

Remarks:

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



Site no.	: 10m Chamber	Data no.	: 33
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Sunny-lu
EUT	: 300Mbps High Gain Wireless N USB Adapter		
Power	: DC 5V From PC Input AC 120V/60Hz		
Test mode	: IEEE802.11g CH11 2462MHz Tx		
M/N	: TL-WN822N		

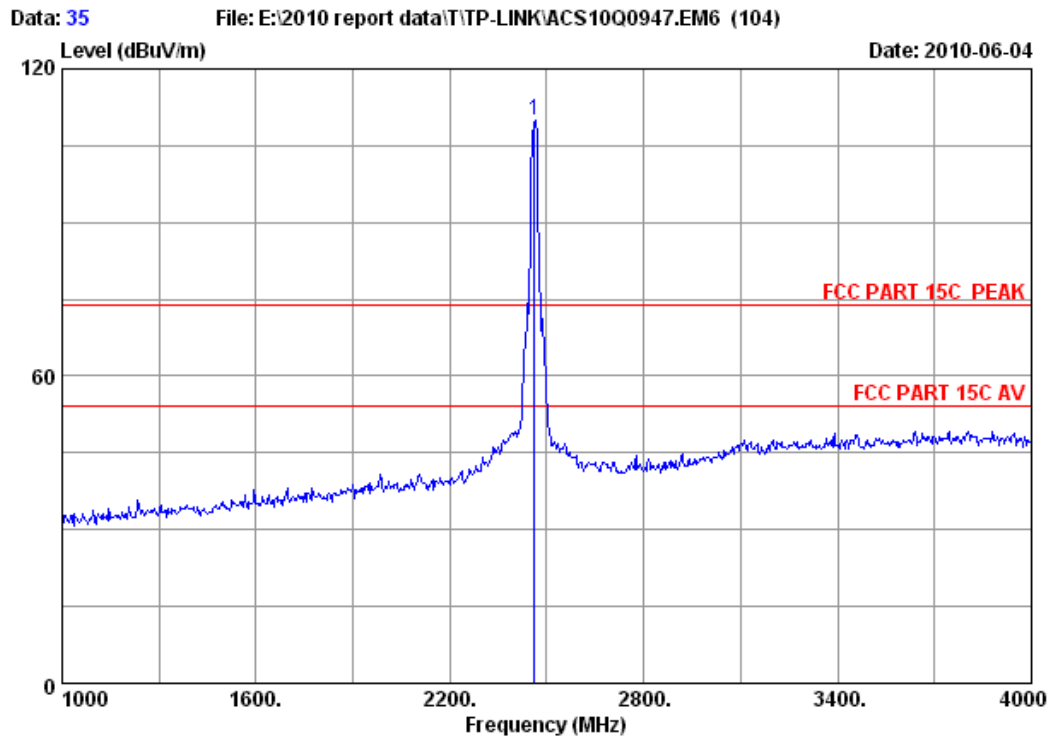


Site no. : 10m Chamber Data no. : 34
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TL-WN822N

	Ant.	Cable	Amp.		Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 4924.000	34.49	12.50	35.34	45.90	57.55	74.00	16.45	Peak	
2 4924.000	34.49	12.50	35.34	38.41	50.06	54.00	3.94	Average	
3 7386.000	37.74	15.70	35.09	39.93	58.28	74.00	15.72	Peak	
4 7386.000	37.74	15.70	35.09	30.74	49.09	54.00	4.91	Average	

Remarks:

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

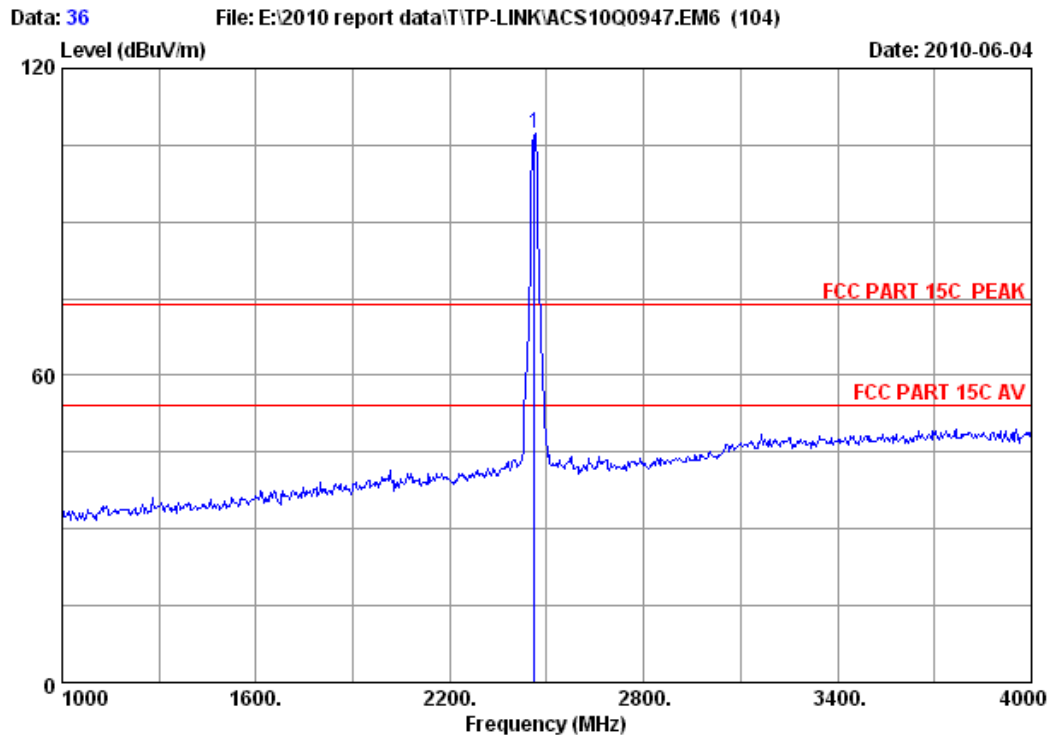


Site no. : 10m Chamber Data no. : 35
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TL-WN822N

	Ant.	Cable	Amp.		Emission			
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 2462.000	29.48	8.82	36.02	107.54	109.82	74.00	-35.82	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.

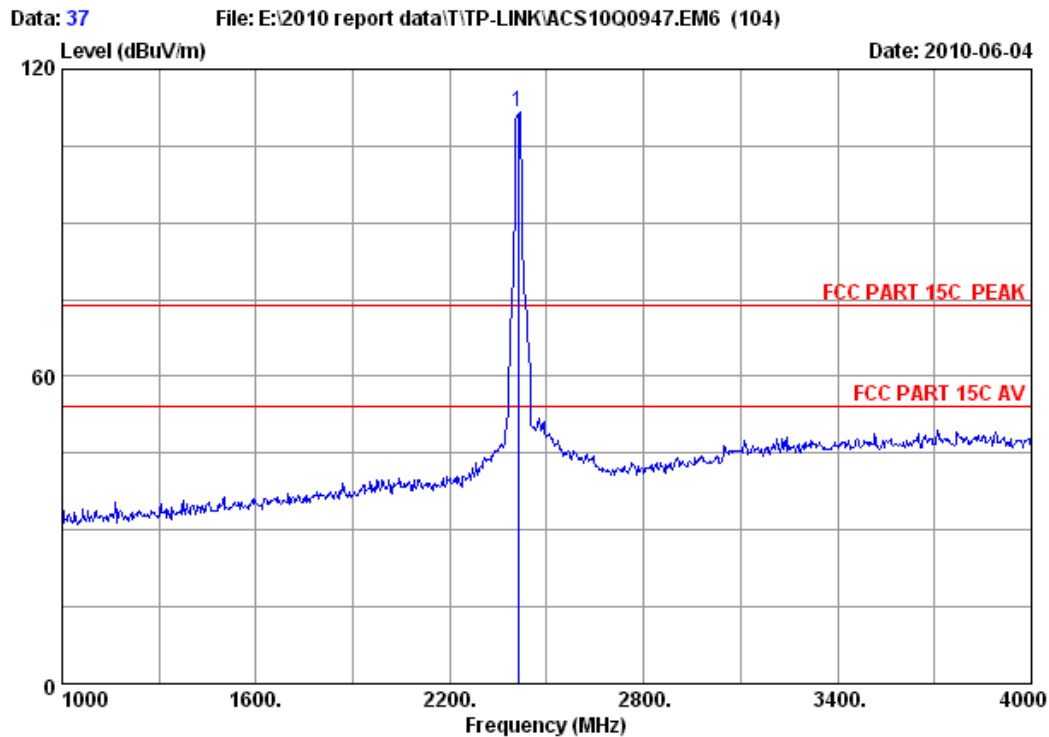


Site no. : 10m Chamber Data no. : 36
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TL-WN822N

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission			Remark
						Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	2462.000	29.48	8.82	36.02	104.96	107.24	74.00	-33.24	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.

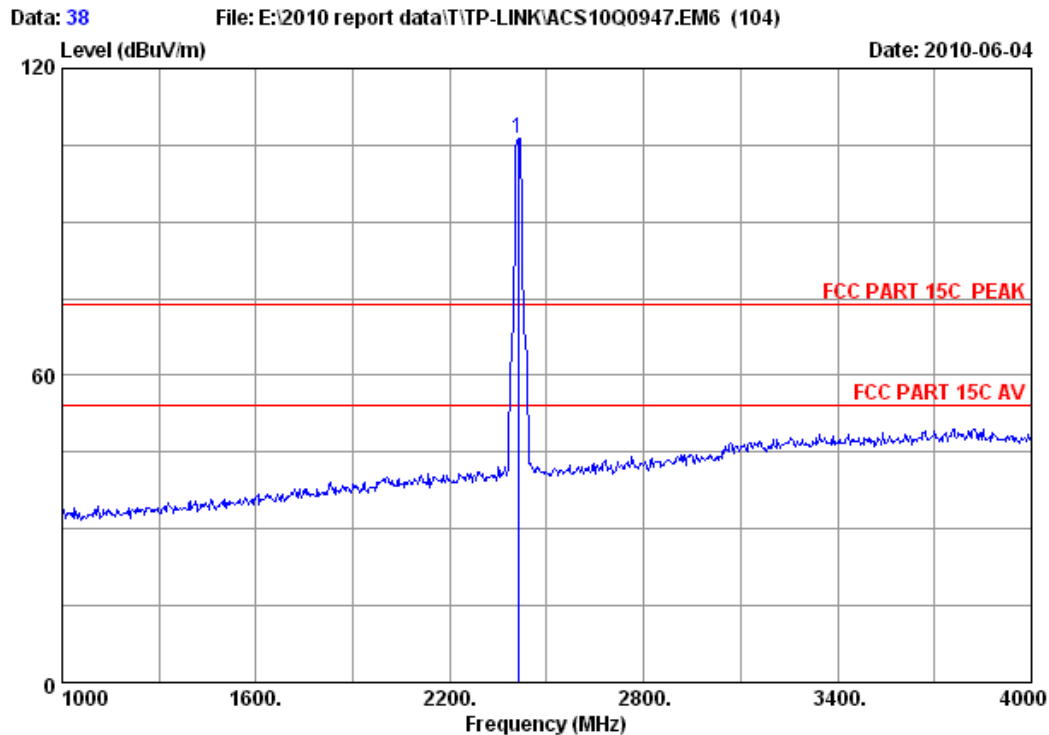


Site no. : 10m Chamber Data no. : 37
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH1 2412MHz Tx
 M/N : TL-WN822N

		Ant.	Cable	Amp.	Emission				
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)	
1	2412.000	29.45	8.72	35.95	109.47	111.69	74.00	-37.69	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.

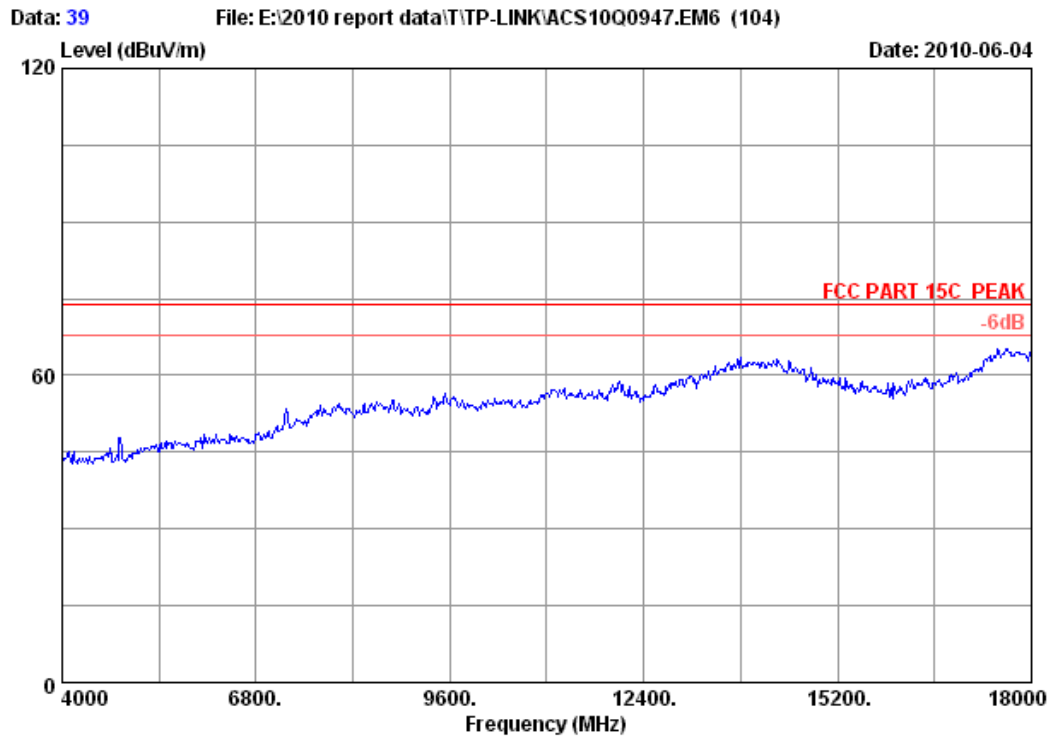


Site no. : 10m Chamber Data no. : 38
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH1 2412MHz Tx
 M/N : TL-WN822N

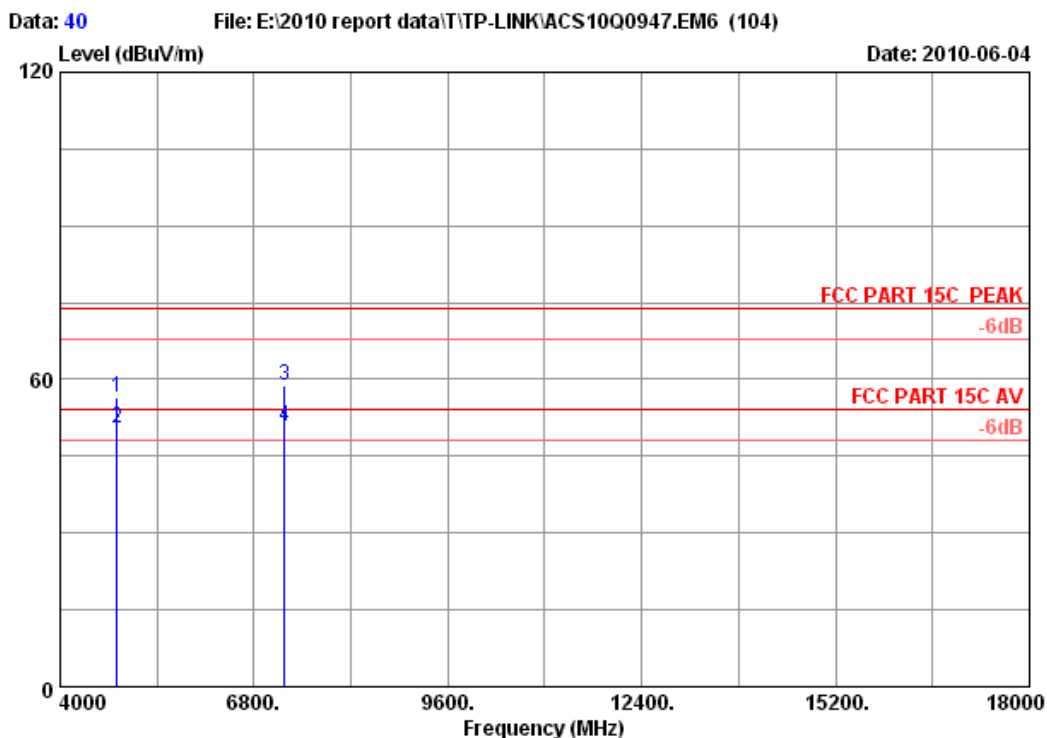
	Ant.	Cable	Amp.		Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)		
1 2412.000	29.45	8.72	35.95	104.14	106.36	74.00	-32.36	Peak	

Remarks:

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



Site no.	: 10m Chamber	Data no.	: 39
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Sunny-lu
EUT	: 300Mbps High Gain Wireless N USB Adapter		
Power	: DC 5V From PC Input AC 120V/60Hz		
Test mode	: IEEE802.11n HT20 CH1 2412MHz Tx		
M/N	: TL-WN822N		

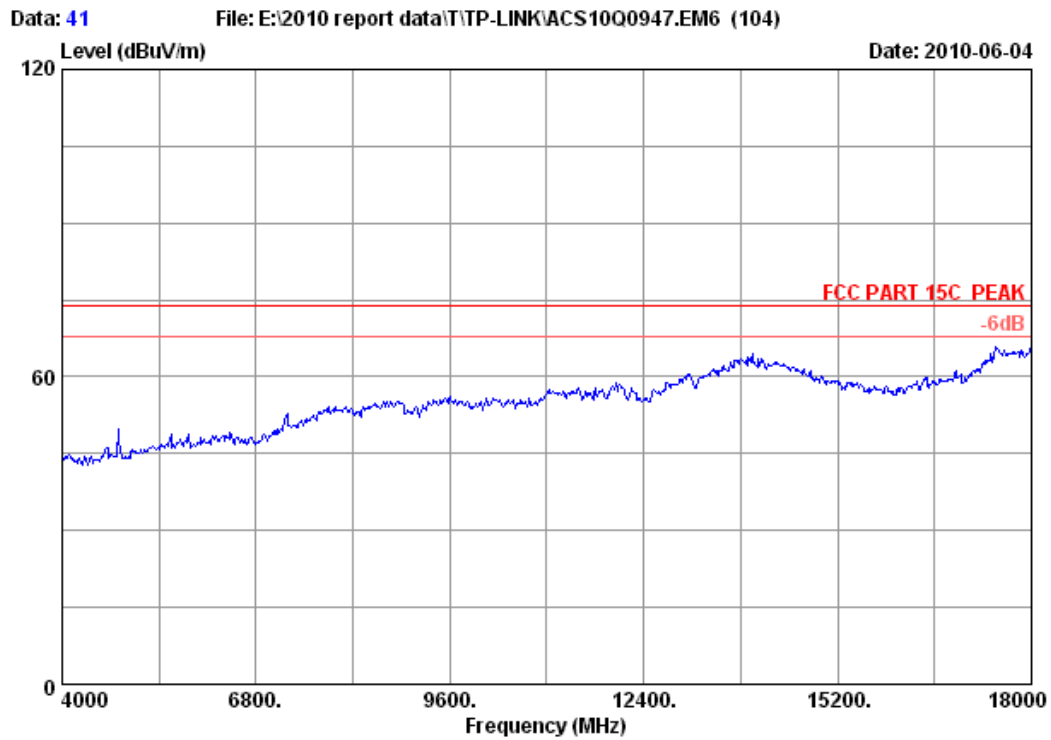


Site no. : 10m Chamber Data no. : 40
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH1 2412MHz Tx
 M/N : TL-WN822N

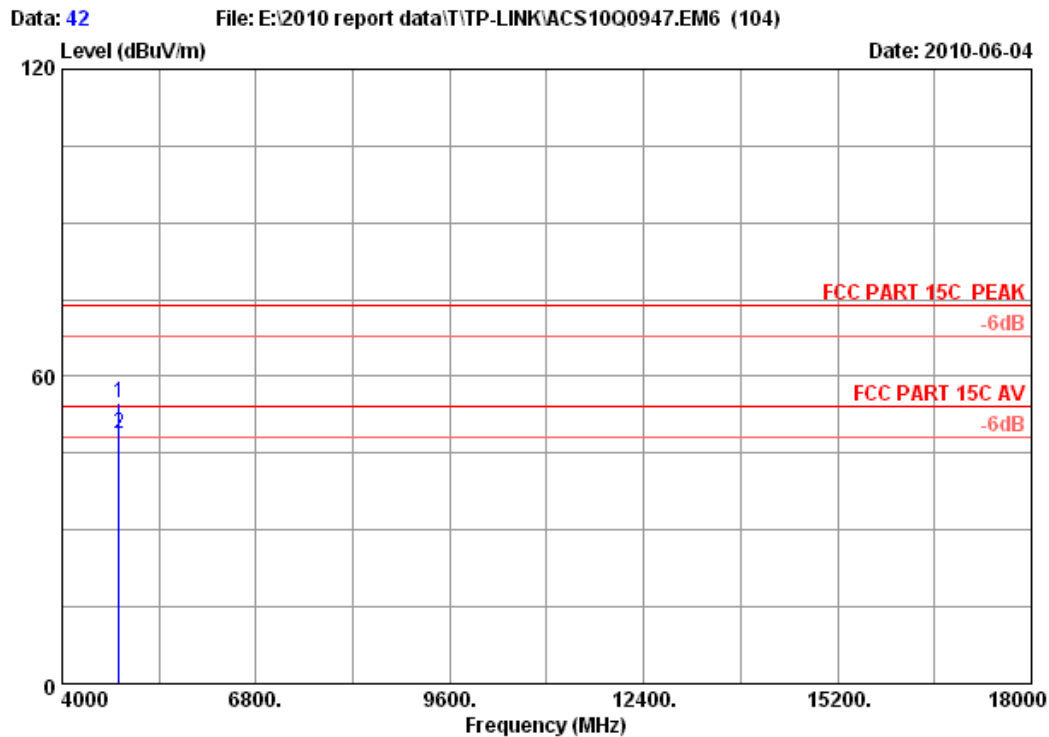
	Ant.	Cable	Amp.		Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 4824.000	34.32	12.38	35.25	45.21	56.66	74.00	17.34	Peak	
2 4824.000	34.32	12.38	35.25	38.89	50.34	54.00	3.66	Average	
3 7236.000	36.90	15.45	34.94	41.57	58.98	74.00	15.02	Peak	
4 7236.000	36.90	15.45	34.94	33.54	50.95	54.00	3.05	Average	

Remarks:

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



Site no.	: 10m Chamber	Data no.	: 41
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Sunny-lu
EUT	: 300Mbps High Gain Wireless N USB Adapter		
Power	: DC 5V From PC Input AC 120V/60Hz		
Test mode	: IEEE802.11n HT20 CH1 2412MHz Tx		
M/N	: TL-WN822N		

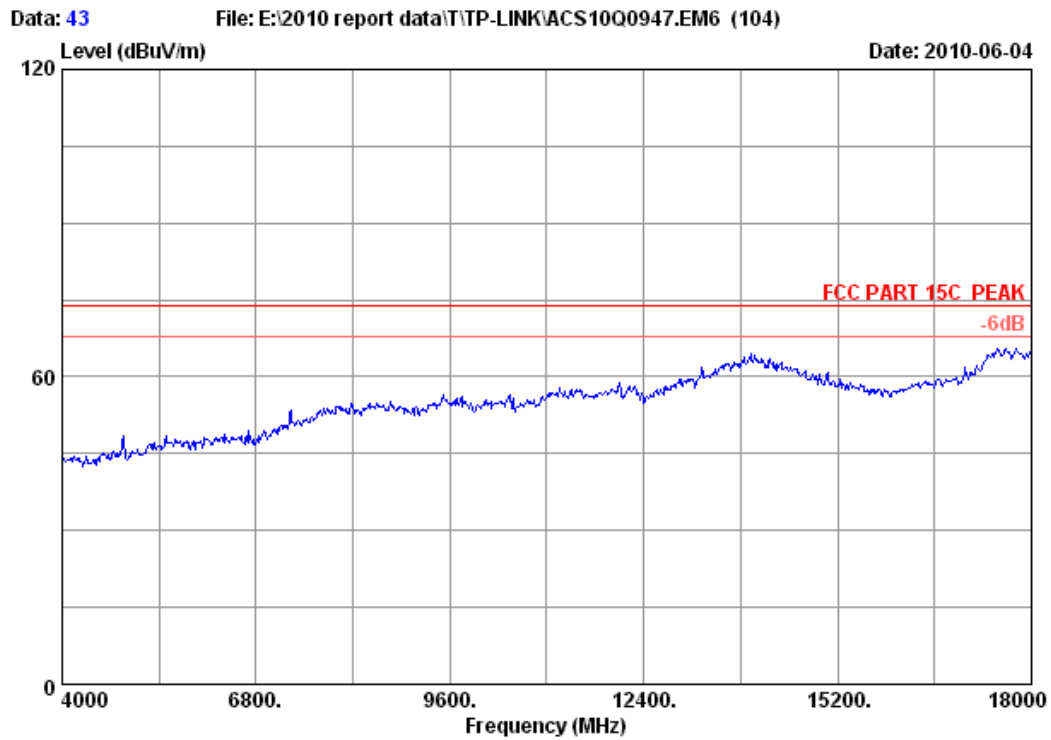


Site no. : 10m Chamber Data no. : 42
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH1 2412MHz Tx
 M/N : TL-WN822N

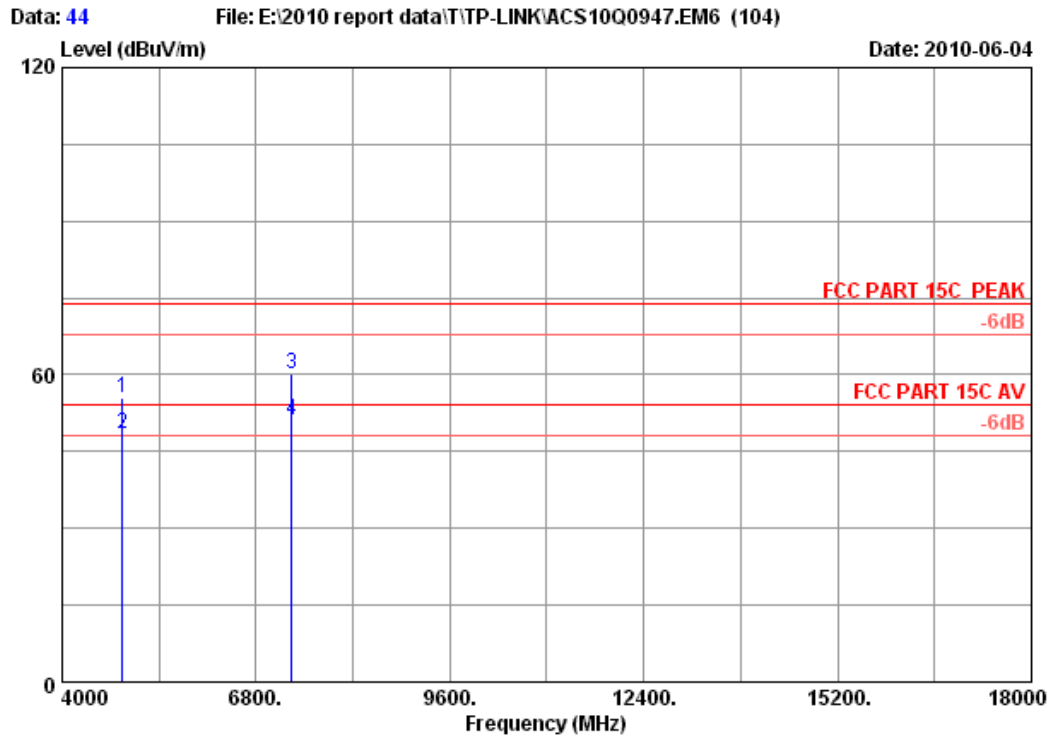
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission			Remark
						Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	4824.000	34.32	12.38	35.25	43.20	54.65	74.00	19.35	Peak
2	4824.000	34.32	12.38	35.25	37.24	48.69	54.00	5.31	Average

Remarks:

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



Site no.	: 10m Chamber	Data no.	: 43
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Sunny-lu
EUT	: 300Mbps High Gain Wireless N USB Adapter		
Power	: DC 5V From PC Input AC 120V/60Hz		
Test mode	: IEEE802.11n HT20 CH6 2437MHz Tx		
M/N	: TL-WN822N		

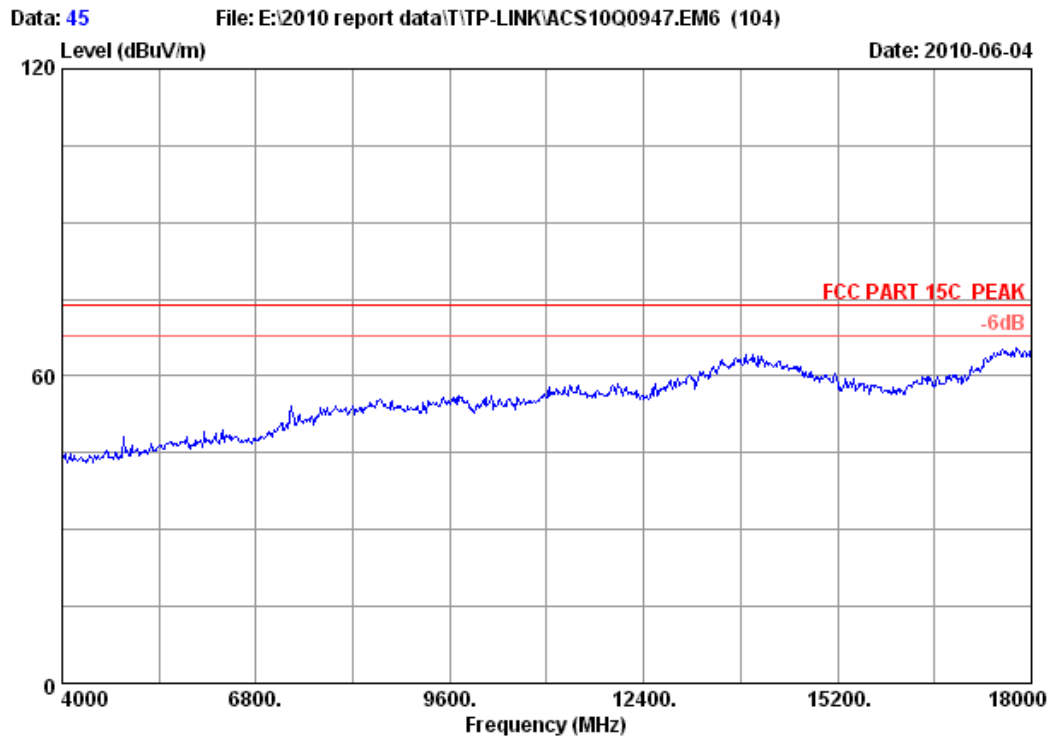


Site no. : 10m Chamber Data no. : 44
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH6 2437MHz Tx
 M/N : TL-WN822N

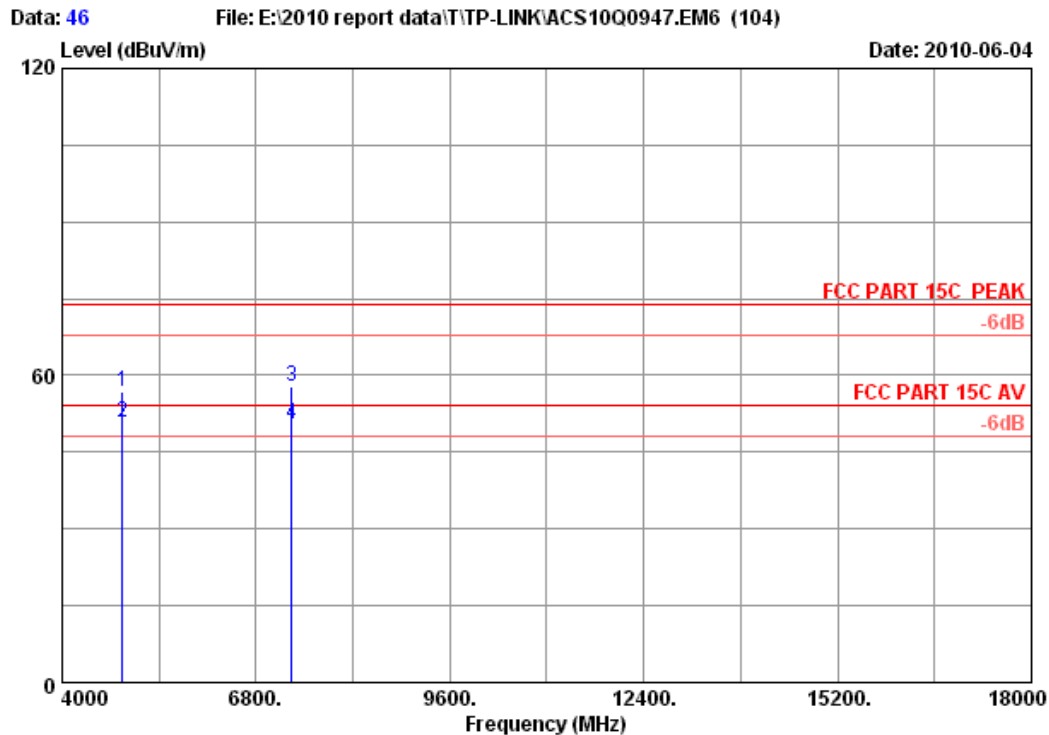
	Ant.	Cable	Amp.		Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4874.000	34.41	12.44	35.36	43.88	55.37	74.00	18.63	Peak
2	4874.000	34.41	12.44	35.36	37.13	48.62	54.00	5.38	Average
3	7311.000	37.28	15.57	35.08	42.29	60.06	74.00	13.94	Peak
4	7311.000	37.28	15.57	35.08	33.23	51.00	54.00	3.00	Average

Remarks:

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



Site no.	: 10m Chamber	Data no.	: 45
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Sunny-lu
EUT	: 300Mbps High Gain Wireless N USB Adapter		
Power	: DC 5V From PC Input AC 120V/60Hz		
Test mode	: IEEE802.11n HT20 CH6 2437MHz Tx		
M/N	: TL-WN822N		

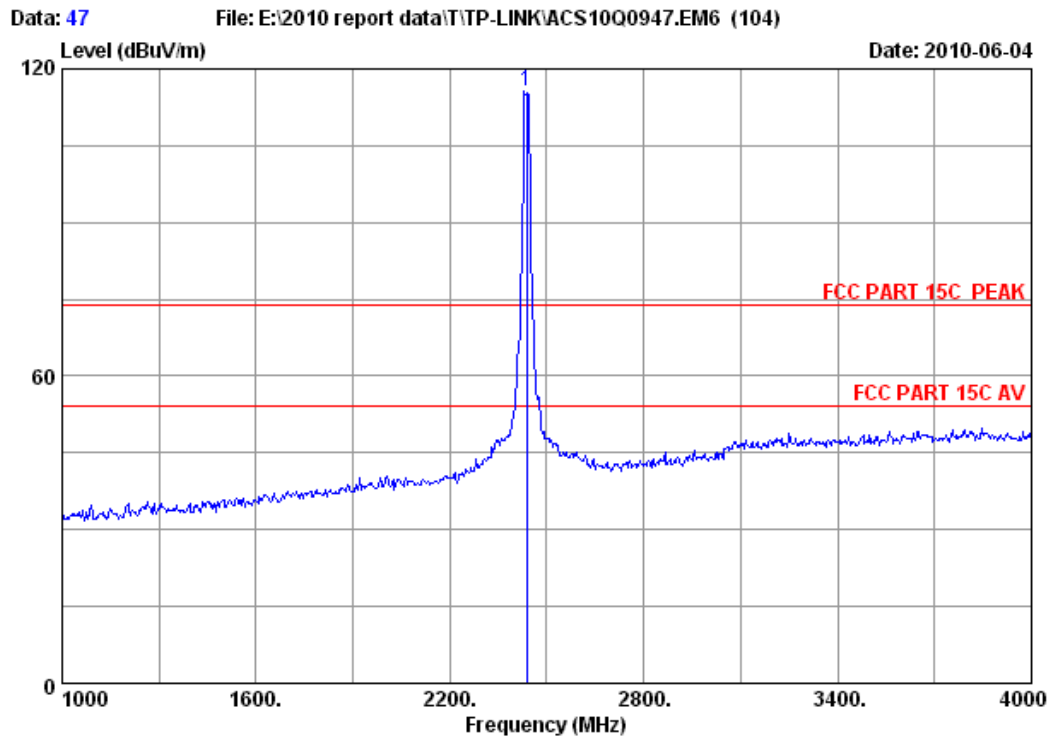


Site no. : 10m Chamber Data no. : 46
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH6 2437MHz Tx
 M/N : TL-WN822N

	Ant.	Cable	Amp.		Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 4874.000	34.41	12.44	35.36	45.47	56.96	74.00	17.04	Peak	
2 4874.000	34.41	12.44	35.36	39.20	50.69	54.00	3.31	Average	
3 7311.000	37.28	15.57	35.08	40.04	57.81	74.00	16.19	Peak	
4 7311.000	37.28	15.57	35.08	32.59	50.36	54.00	3.64	Average	

Remarks:

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

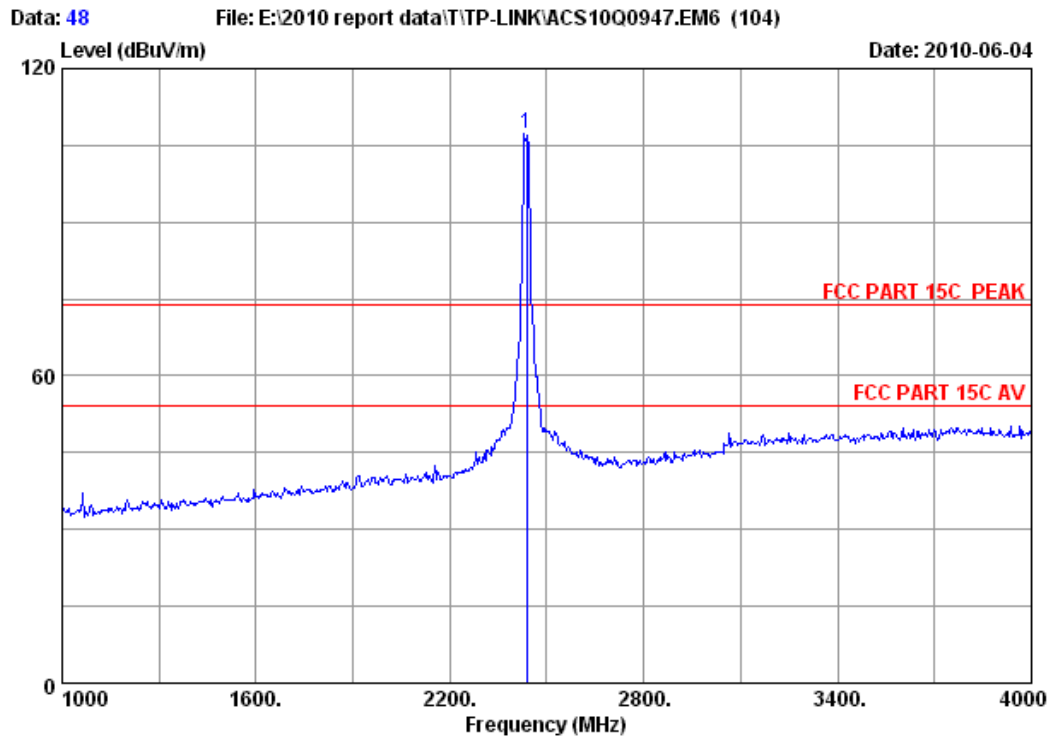


Site no. : 10m Chamber Data no. : 47
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH6 2437MHz Tx
 M/N : TL-WN822N

	Ant.	Cable	Amp.		Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 2437.000	29.47	8.77	36.06	113.43	115.61	74.00	-41.61	Peak	

Remarks:

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

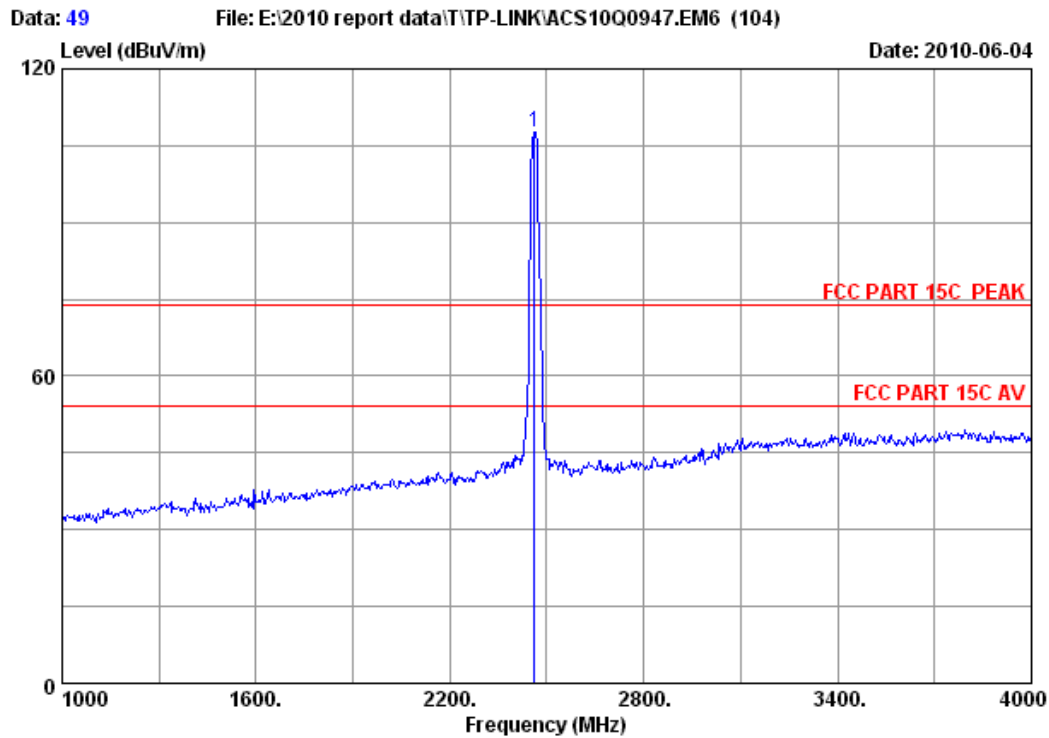


Site no. : 10m Chamber Data no. : 48
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH6 2437MHz Tx
 M/N : TL-WN822N

	Ant.	Cable	Amp.		Emission			
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 2437.000	29.47	8.77	36.06	105.08	107.26	74.00	-33.26	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.

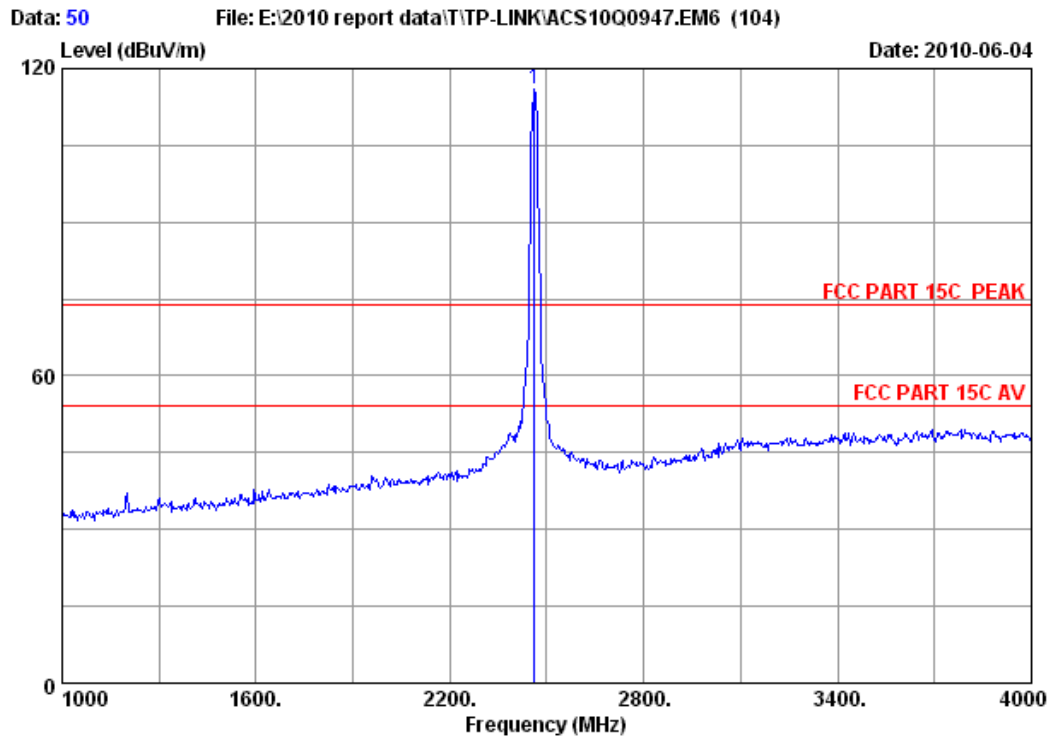


Site no. : 10m Chamber Data no. : 49
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH11 2462MHz Tx
 M/N : TL-WN822N

	Ant.	Cable	Amp.		Emission			
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 2462.000	29.48	8.82	36.02	105.41	107.69	74.00	-33.69	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.

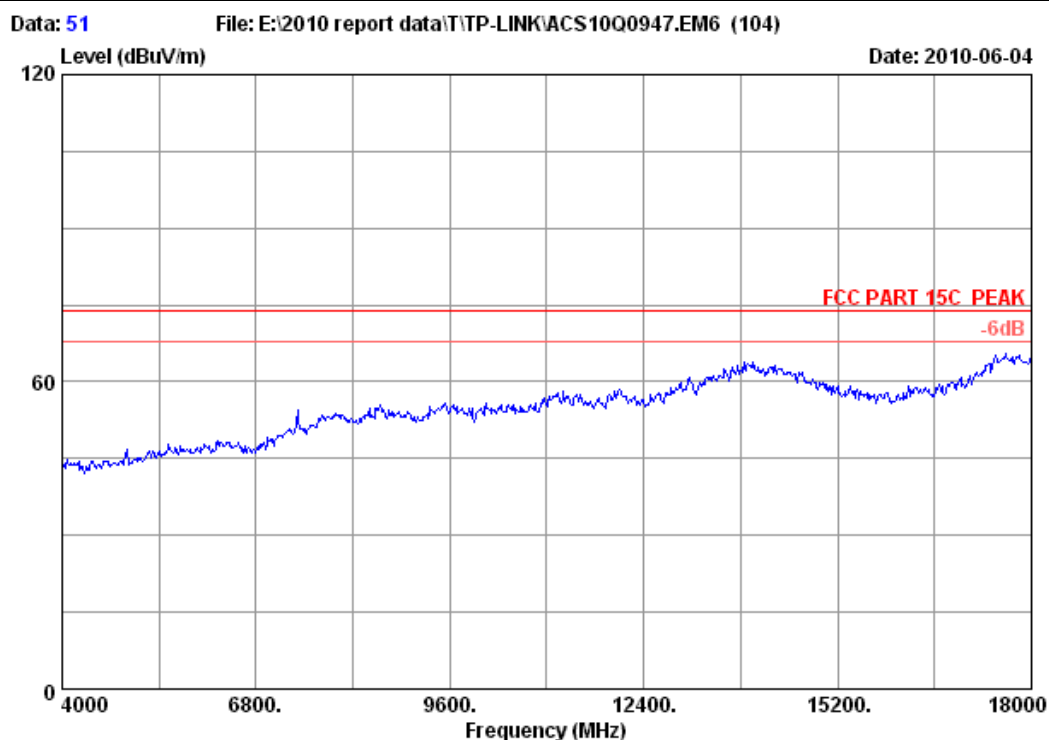


Site no. : 10m Chamber Data no. : 50
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH11 2462MHz Tx
 M/N : TL-WN822N

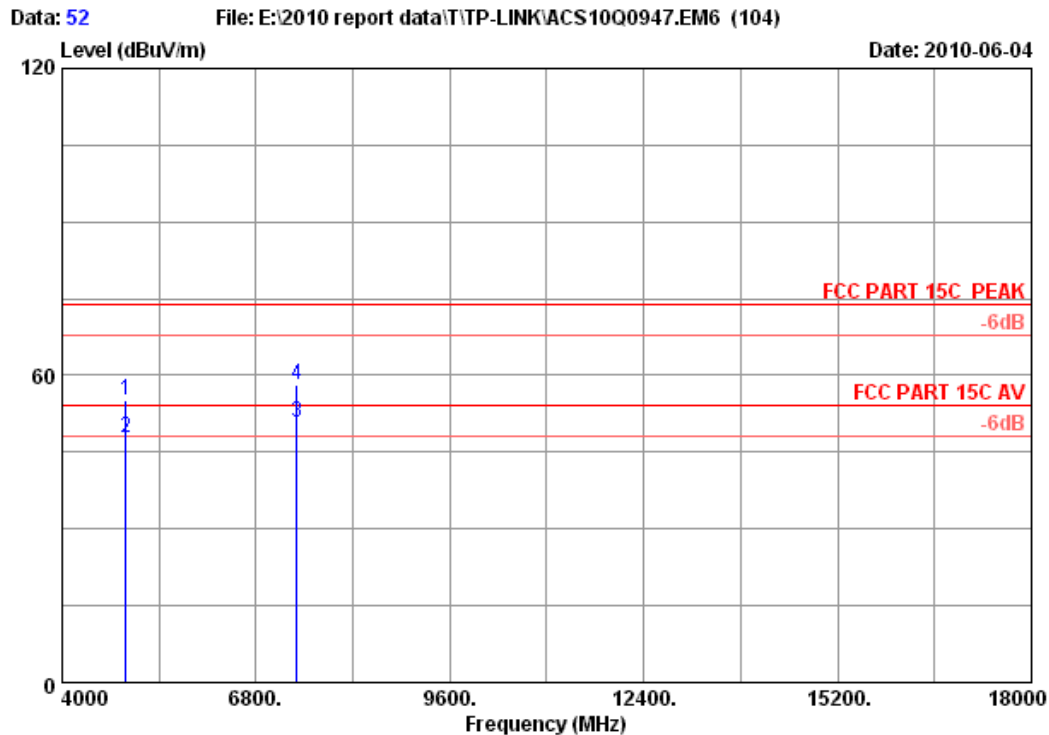
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission			Remark
						Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	
1	2462.000	29.48	8.82	36.02	113.66	115.94	74.00	-41.94	Peak

Remarks:

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



Site no.	: 10m Chamber	Data no.	: 51
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Sunny-lu
EUT	: 300Mbps High Gain Wireless N USB Adapter		
Power	: DC 5V From PC Input AC 120V/60Hz		
Test mode	: IEEE802.11n HT20 CH11 2462MHz Tx		
M/N	: TL-WN822N		

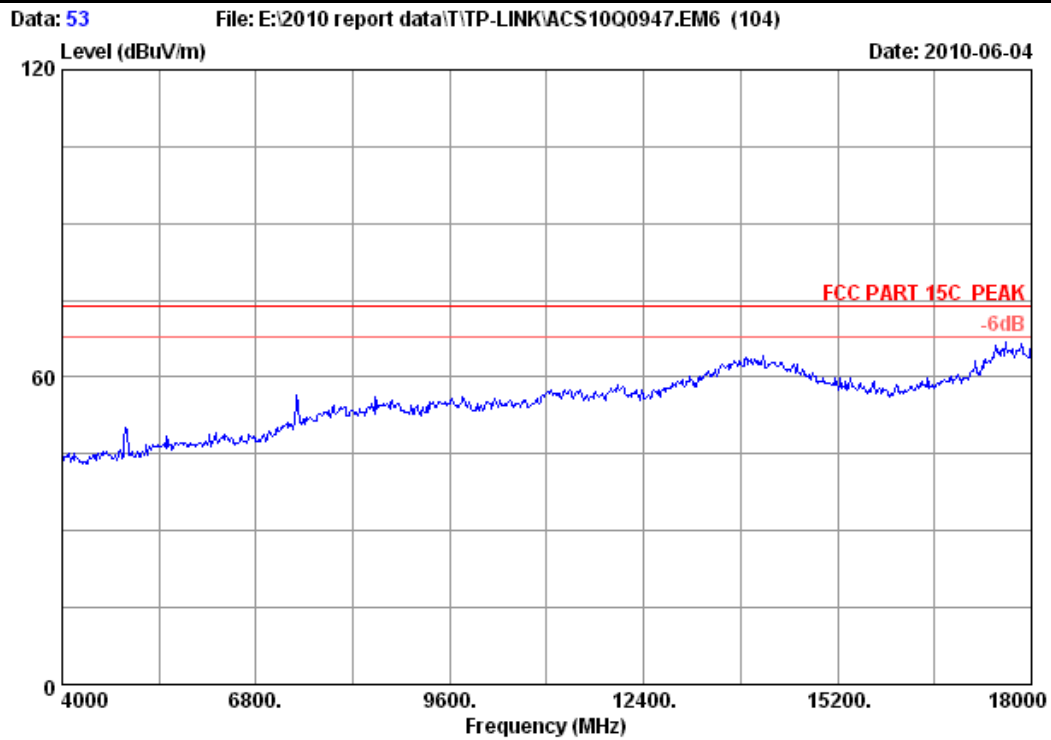


Site no. : 10m Chamber Data no. : 52
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH11 2462MHz Tx
 M/N : TL-WN822N

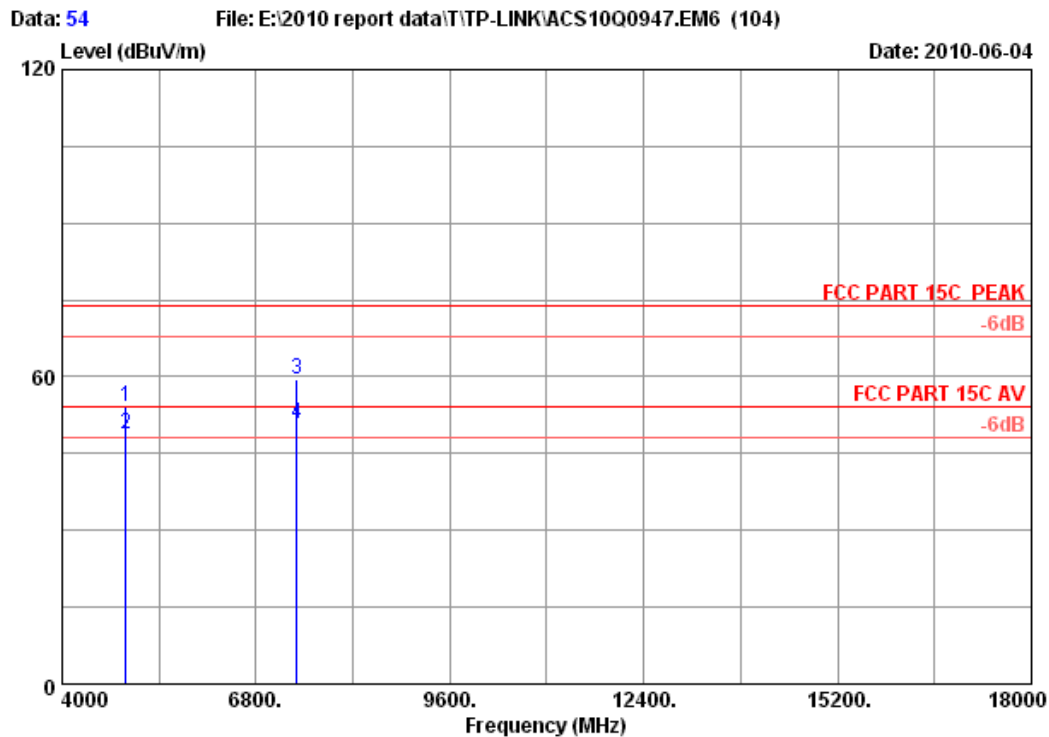
	Ant.	Cable	Amp.		Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 4924.000	34.49	12.50	35.34	43.56	55.21	74.00	18.79	Peak	
2 4924.000	34.49	12.50	35.34	36.24	47.89	54.00	6.11	Average	
3 7388.000	37.74	15.70	35.09	32.50	50.85	54.00	3.15	Average	
4 7388.000	37.74	15.70	35.09	39.82	58.17	74.00	15.83	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.	: 10m Chamber	Data no.	: 53
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Sunny-lu
EUT	: 300Mbps High Gain Wireless N USB Adapter		
Power	: DC 5V From PC Input AC 120V/60Hz		
Test mode	: IEEE802.11n HT20 CH11 2462MHz Tx		
M/N	: TL-WN822N		

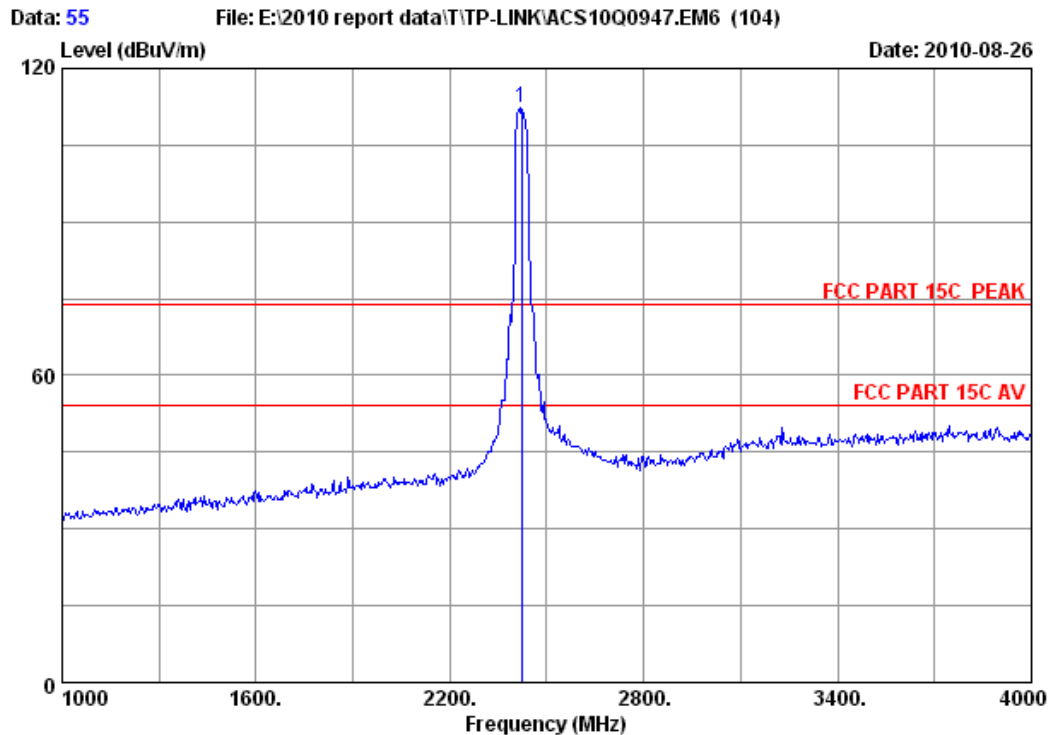


Site no. : 10m Chamber Data no. : 54
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH11 2462MHz Tx
 M/N : TL-WN822N

	Ant.	Cable	Amp.		Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4924.000	34.49	12.50	35.34	42.47	54.12	74.00	19.88	Peak
2	4924.000	34.49	12.50	35.34	37.24	48.89	54.00	5.11	Average
3	7386.000	37.74	15.70	35.09	41.11	59.46	74.00	14.54	Peak
4	7386.000	37.74	15.70	35.09	32.57	50.92	54.00	3.08	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.

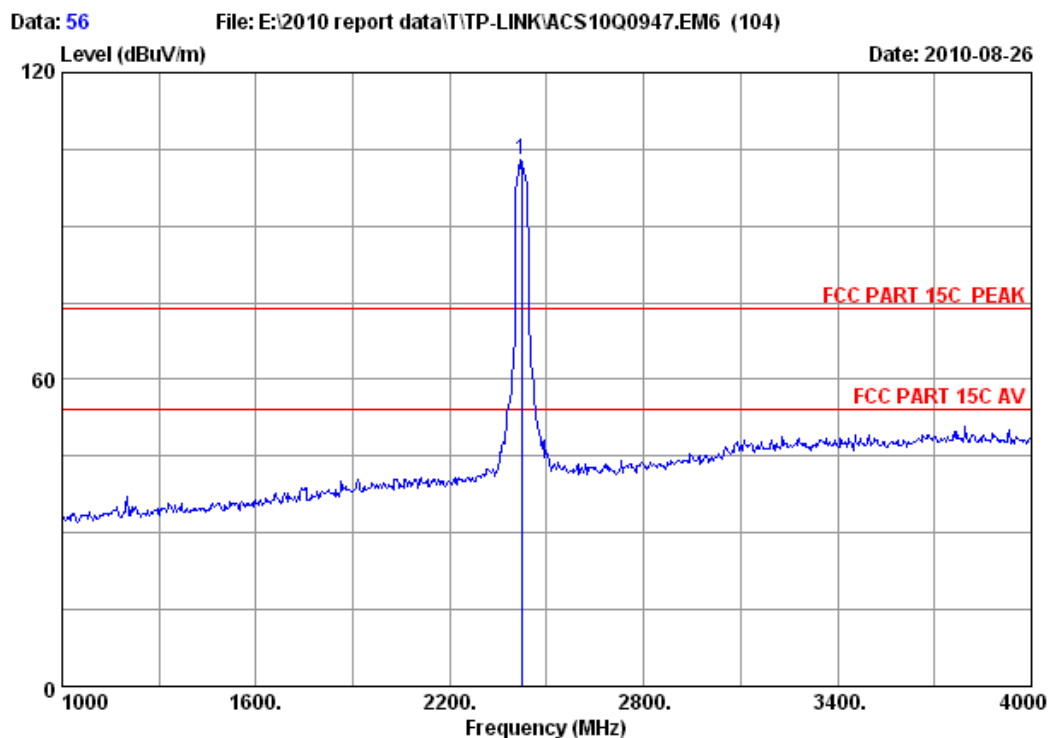


Site no. : 10m Chamber Data no. : 55
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH1 2422MHz Tx
 M/N : TL-WN822N

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission			Remark
						Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	2422.000	29.46	8.77	36.01	110.15	112.37	74.00	-38.37	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.

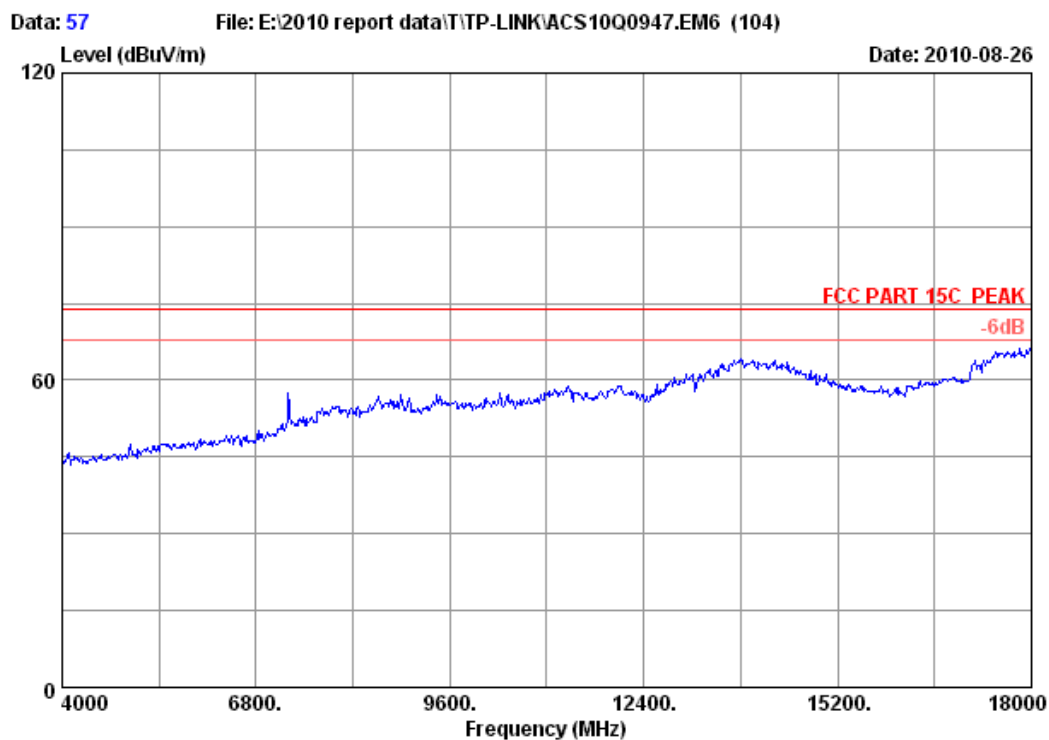


Site no. : 10m Chamber Data no. : 56
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH1 2422MHz Tx
 M/N : TL-WN822N

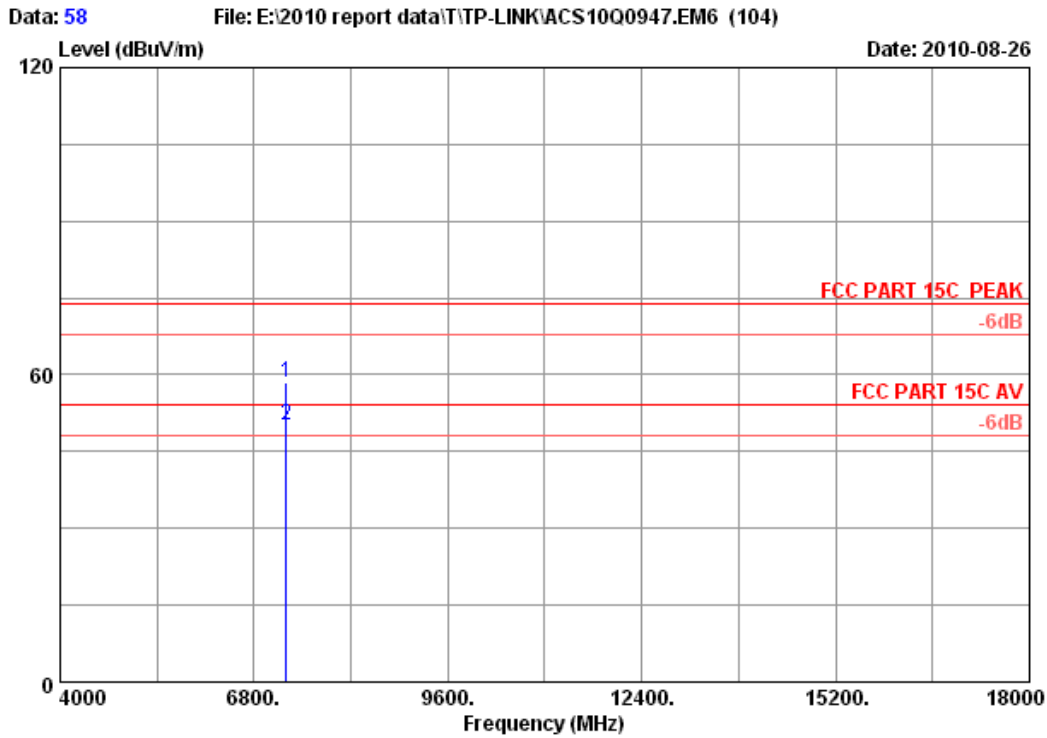
	Ant.	Cable	Amp.		Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)		
1 2422.000	29.46	8.77	36.01	100.85	103.07	74.00	-29.07	Peak	

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.	: 10m Chamber	Data no.	: 57
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Sunny-lu
EUT	: 300Mbps High Gain Wireless N USB Adapter		
Power	: DC 5V From PC Input AC 120V/60Hz		
Test mode	: IEEE802.11n HT40 CH1 2422MHz Tx		
M/N	: TL-WN822N		

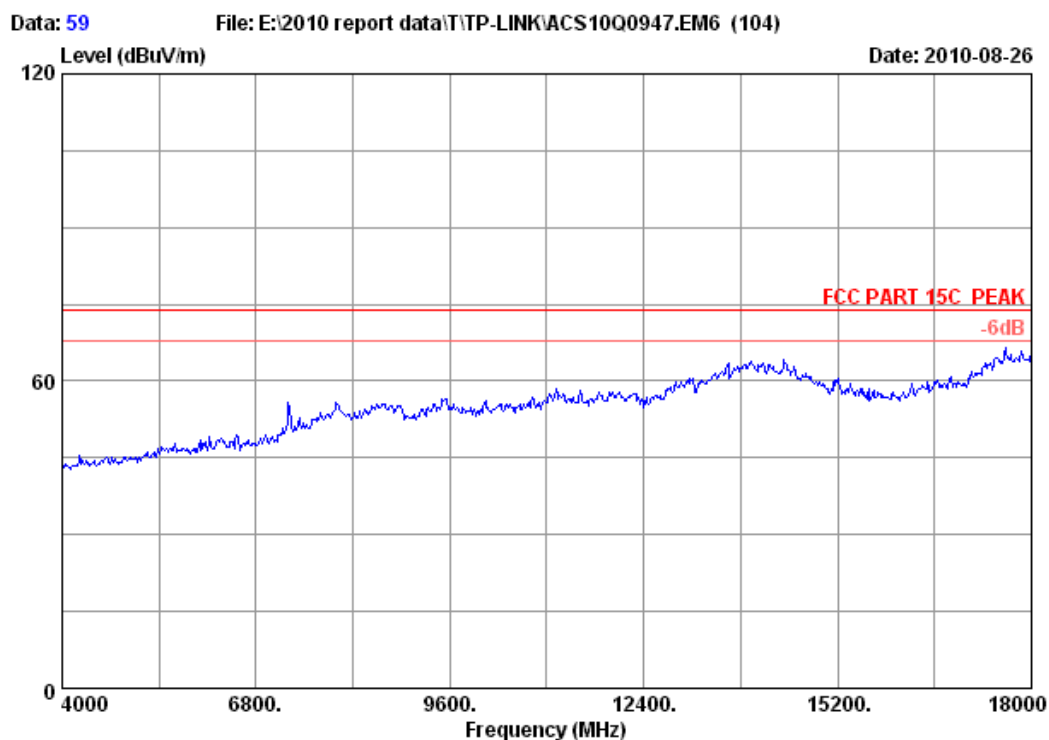


Site no. : 10m Chamber Data no. : 58
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH1 2422MHz Tx
 M/N : TL-WN822N

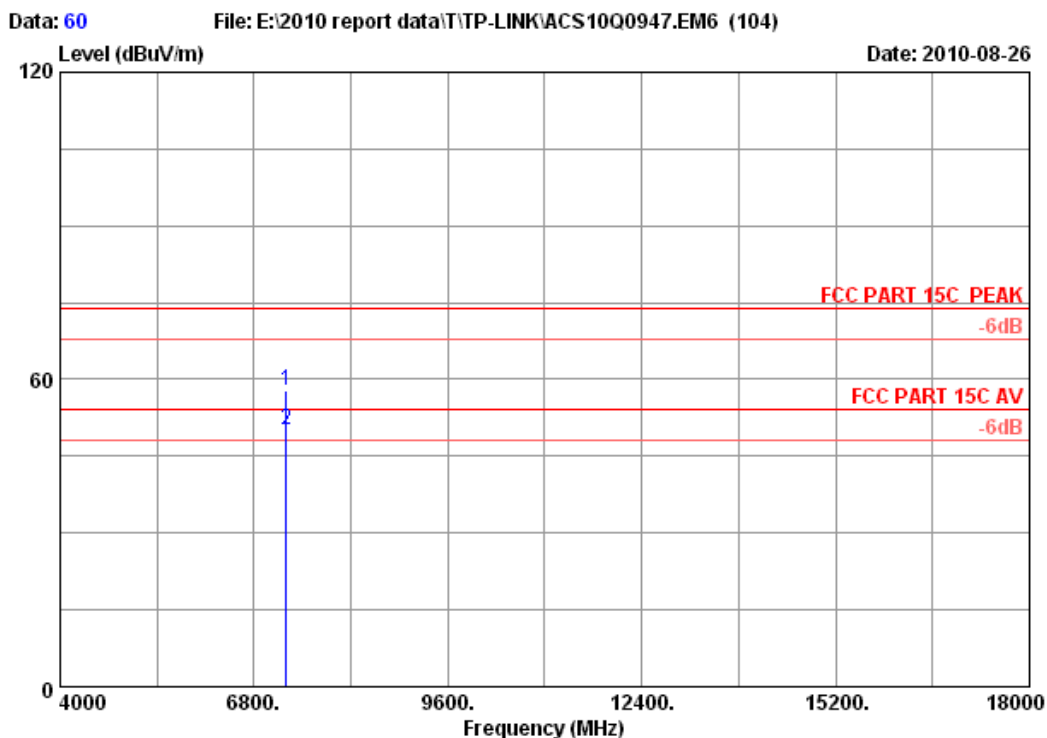
	Ant.	Cable	Amp.		Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	7266.000	37.09	15.49	35.06	40.91	58.43	74.00	15.57	Peak
2	7266.000	37.09	15.49	35.06	32.62	50.14	54.00	3.86	Average

Remarks:

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



Site no.	: 10m Chamber	Data no.	: 59
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Sunny-lu
EUT	: 300Mbps High Gain Wireless N USB Adapter		
Power	: DC 5V From PC Input AC 120V/60Hz		
Test mode	: IEEE802.11n HT40 CH1 2422MHz Tx		
M/N	: TL-WN822N		

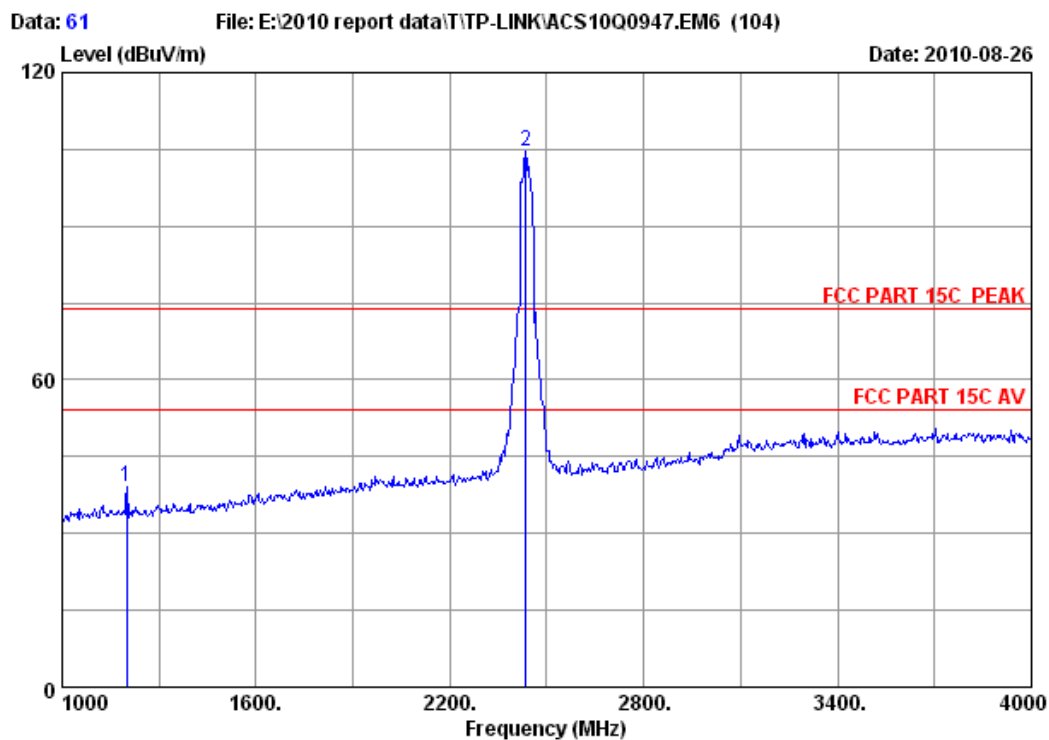


Site no. : 10m Chamber Data no. : 60
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH1 2422MHz Tx
 M/N : TL-WN822N

		Ant.	Cable	Amp.		Emission			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	7266.000	37.09	15.49	35.06	40.26	57.78	74.00	16.22	Peak
2	7266.000	37.09	15.49	35.06	32.48	50.00	54.00	4.00	Average

Remarks:

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

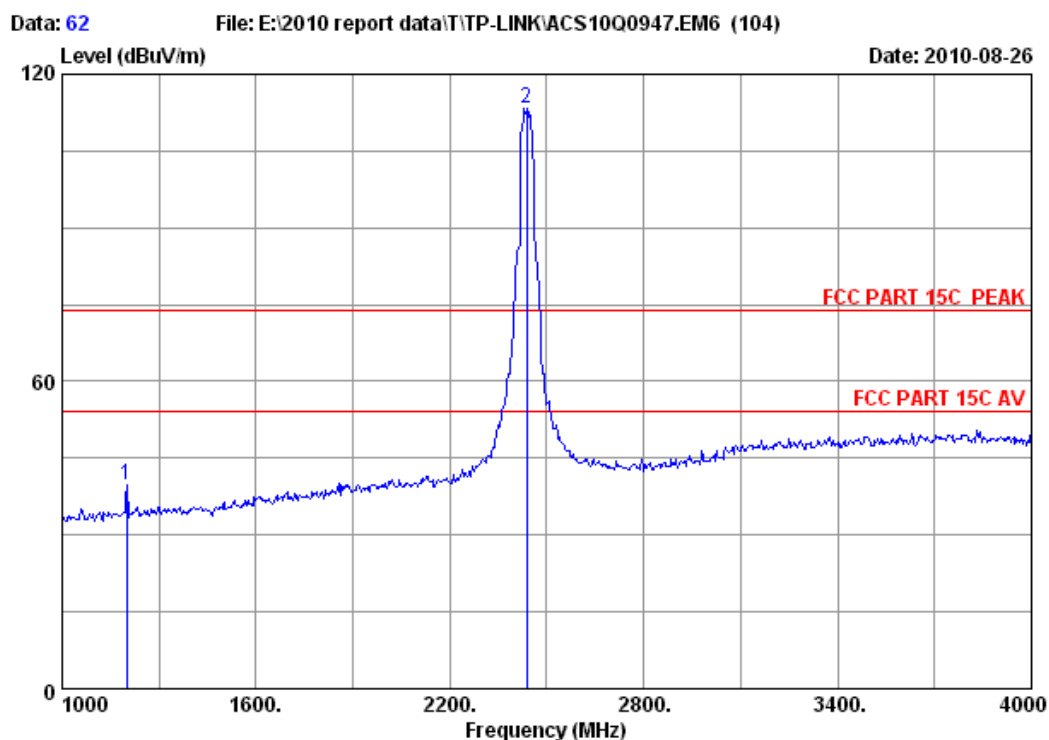


Site no. : 10m Chamber Data no. : 61
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH4 2437MHz Tx
 M/N : TL-WN822N

	Ant.	Cable	Amp.		Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 1201.000	25.81	5.98	36.97	44.26	39.08	74.00	34.92	Peak	
2 2434.000	29.46	8.77	36.01	102.38	104.60	74.00	-30.60	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.

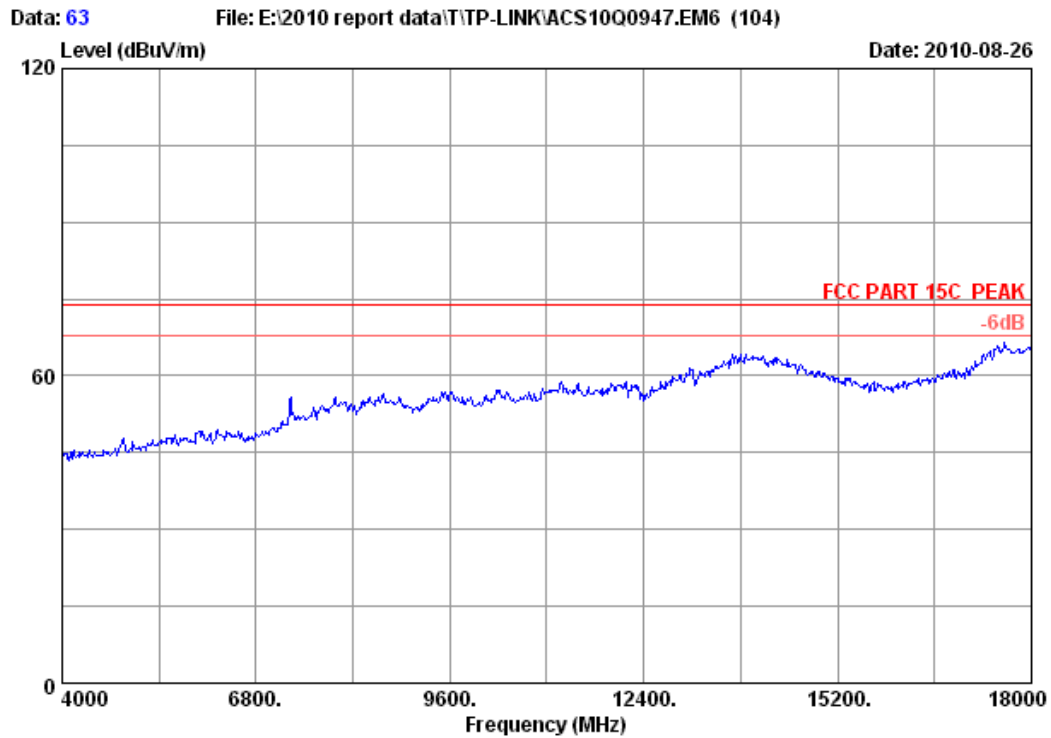


Site no. : 10m Chamber Data no. : 62
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH4 2437MHz Tx
 M/N : TL-WN822N

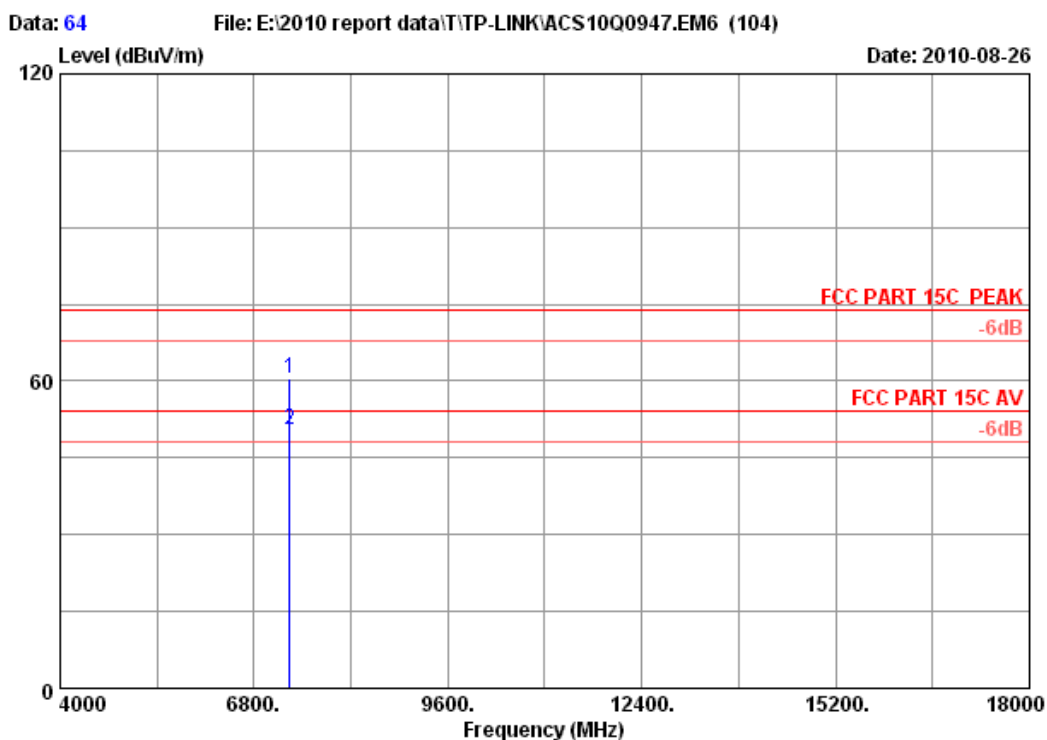
		Ant.	Cable	Amp.		Emission			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1201.000	25.81	5.98	36.97	44.83	39.65	74.00	34.35	Peak
2	2437.000	29.47	8.77	36.06	111.11	113.29	74.00	-39.29	Peak

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.	: 10m Chamber	Data no.	: 63
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Sunny-lu
EUT	: 300Mbps High Gain Wireless N USB Adapter		
Power	: DC 5V From PC Input AC 120V/60Hz		
Test mode	: IEEE802.11n HT40 CH4 2437MHz Tx		
M/N	: TL-WN822N		

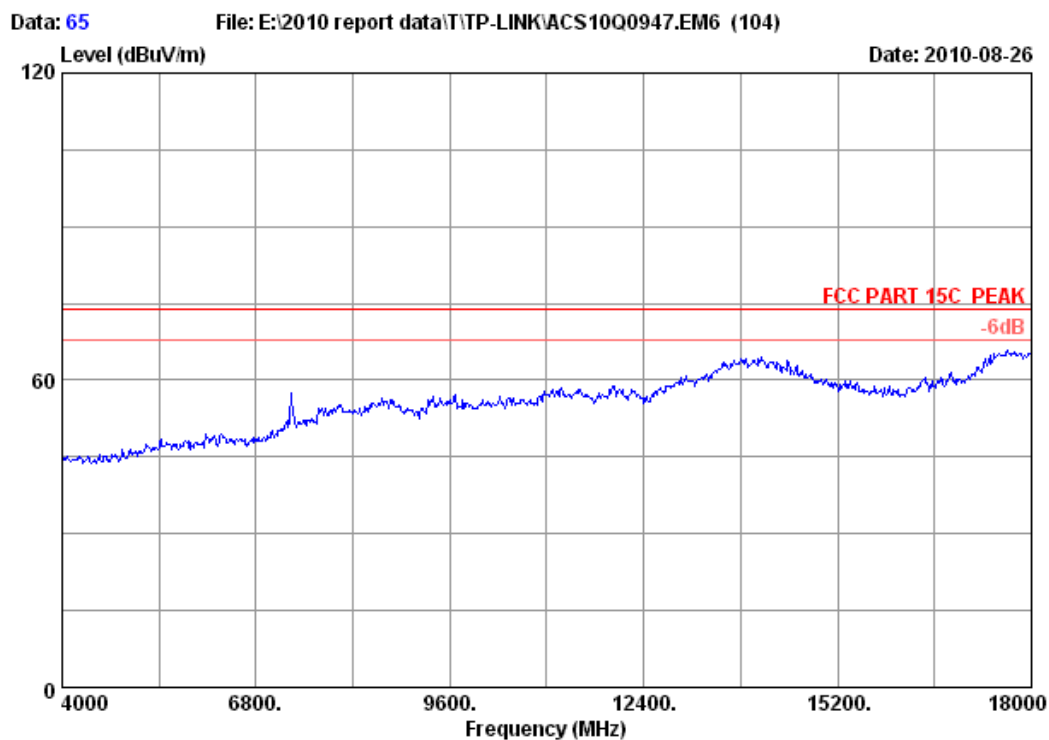


Site no. : 10m Chamber Data no. : 64
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH4 2437MHz Tx
 M/N : TL-WN822N

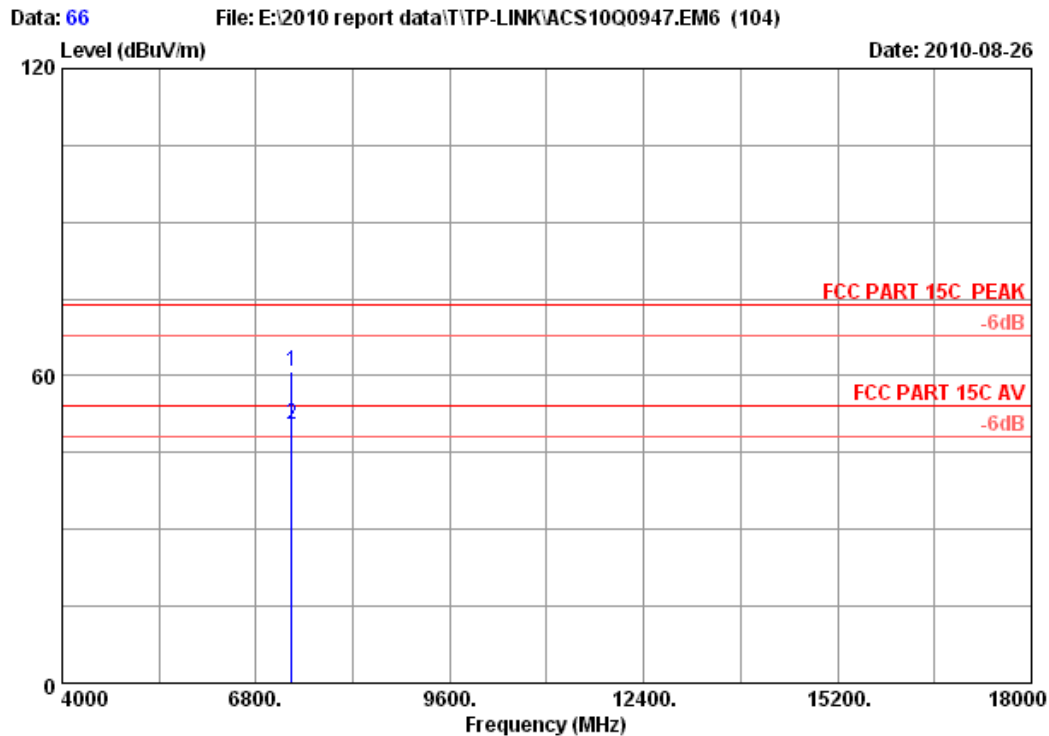
	Ant.	Cable	Amp.		Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	7311.000	37.28	15.57	35.08	42.57	60.34	74.00	13.66	Peak
2	7311.000	37.28	15.57	35.08	32.56	50.33	54.00	3.67	Average

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.	: 10m Chamber	Data no.	: 65
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Sunny-lu
EUT	: 300Mbps High Gain Wireless N USB Adapter		
Power	: DC 5V From PC Input AC 120V/60Hz		
Test mode	: IEEE802.11n HT40 CH4 2437MHz Tx		
M/N	: TL-WN822N		

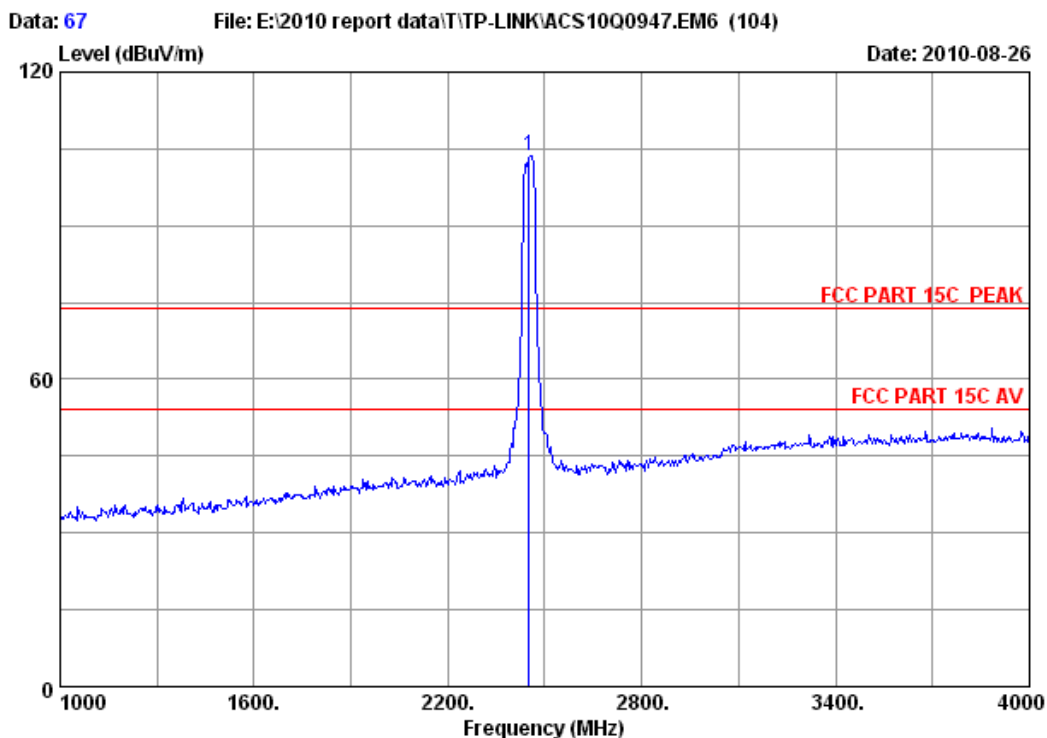


Site no. : 10m Chamber Data no. : 66
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH4 2437MHz Tx
 M/N : TL-WN822N

	Ant.	Cable	Amp.		Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 7311.000	37.28	15.57	35.08	43.23	61.00	74.00	13.00	Peak	
2 7311.000	37.28	15.57	35.08	32.76	50.53	54.00	3.47	Average	

Remarks:

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

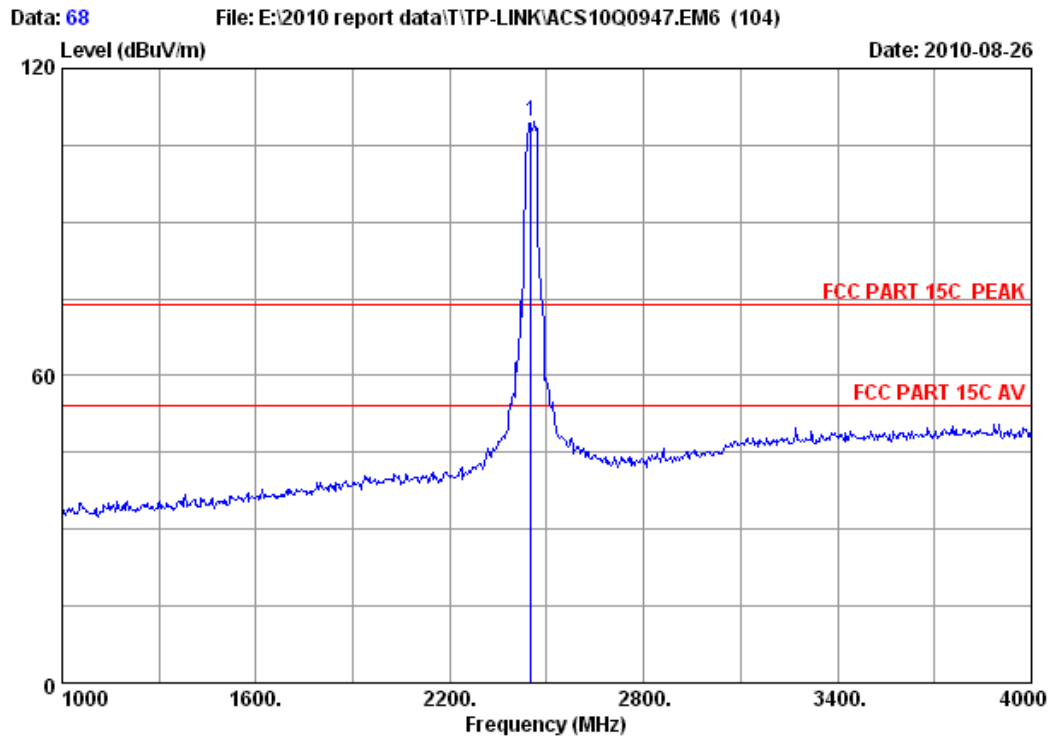


Site no. : 10m Chamber Data no. : 67
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH7 2452MHz Tx
 M/N : TL-WN822N

	Ant.	Cable	Amp.		Emission			
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)	
1 2452.000	29.47	8.82	36.06	101.30	103.53	74.00	-29.53	Peak

Remarks:

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

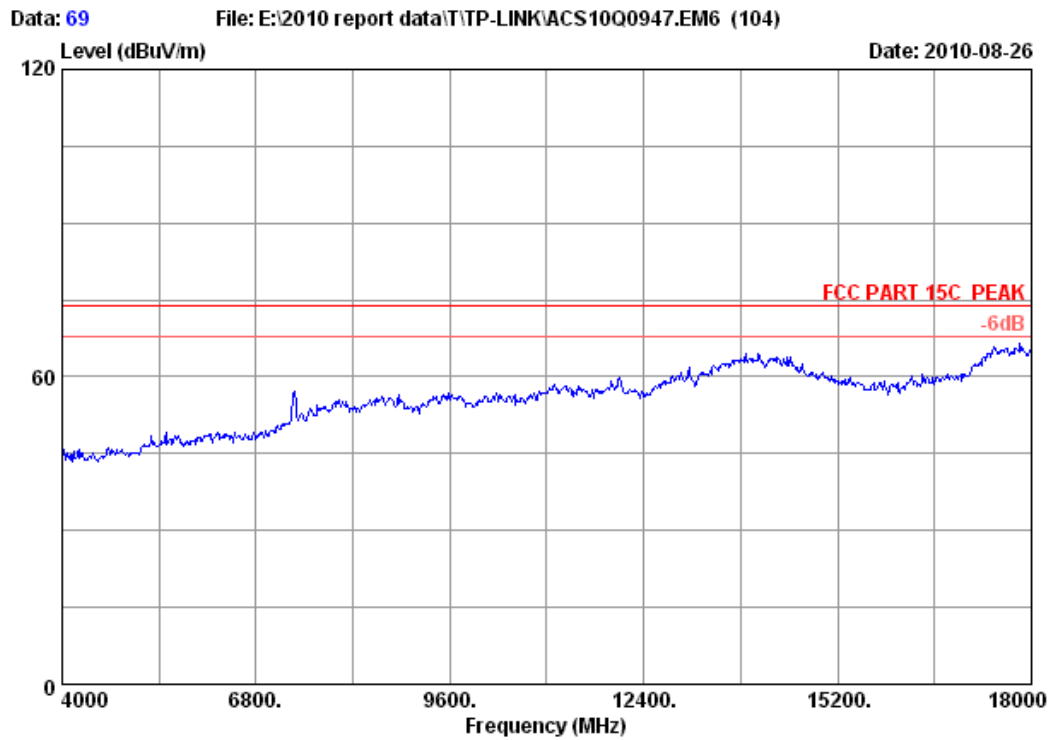


Site no. : 10m Chamber Data no. : 68
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH7 2452MHz Tx
 M/N : TL-WN822N

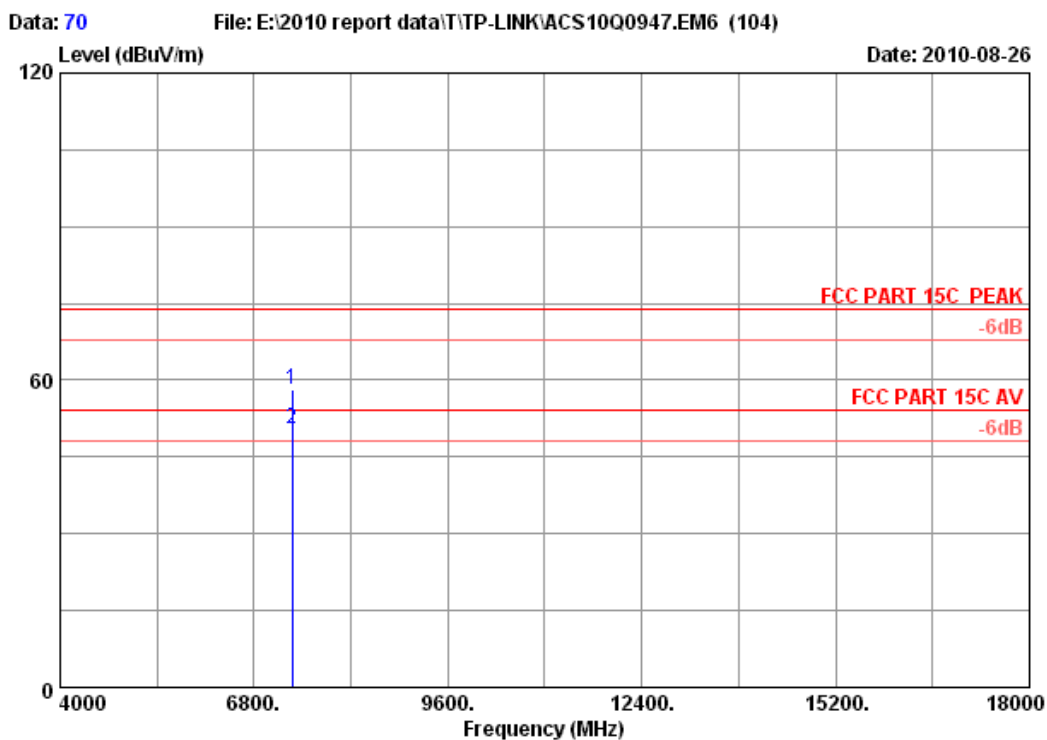
	Ant.	Cable	Amp.		Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 2452.000	29.47	8.82	36.06	107.40	109.63	74.00	-35.63	Peak	

Remarks:

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



Site no.	: 10m Chamber	Data no.	: 69
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Sunny-lu
EUT	: 300Mbps High Gain Wireless N USB Adapter		
Power	: DC 5V From PC Input AC 120V/60Hz		
Test mode	: IEEE802.11n HT40 CH7 2452MHz Tx		
M/N	: TL-WN822N		



Site no. : 10m Chamber Data no. : 70
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH7 2452MHz Tx
 M/N : TL-WN822N

	Ant.	Cable	Amp.		Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	7356.000	37.56	15.66	35.03	40.12	58.31	74.00	15.69	Peak
2	7356.000	37.56	15.66	35.03	32.21	50.40	54.00	3.60	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.

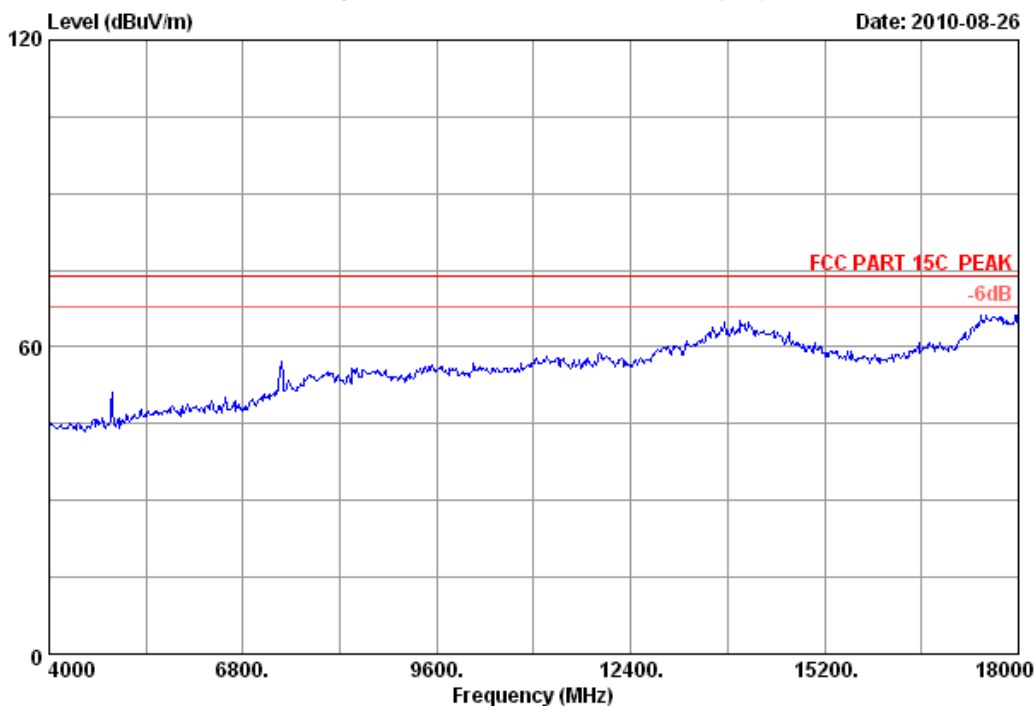


No.6 Ke Feng Road,Block 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

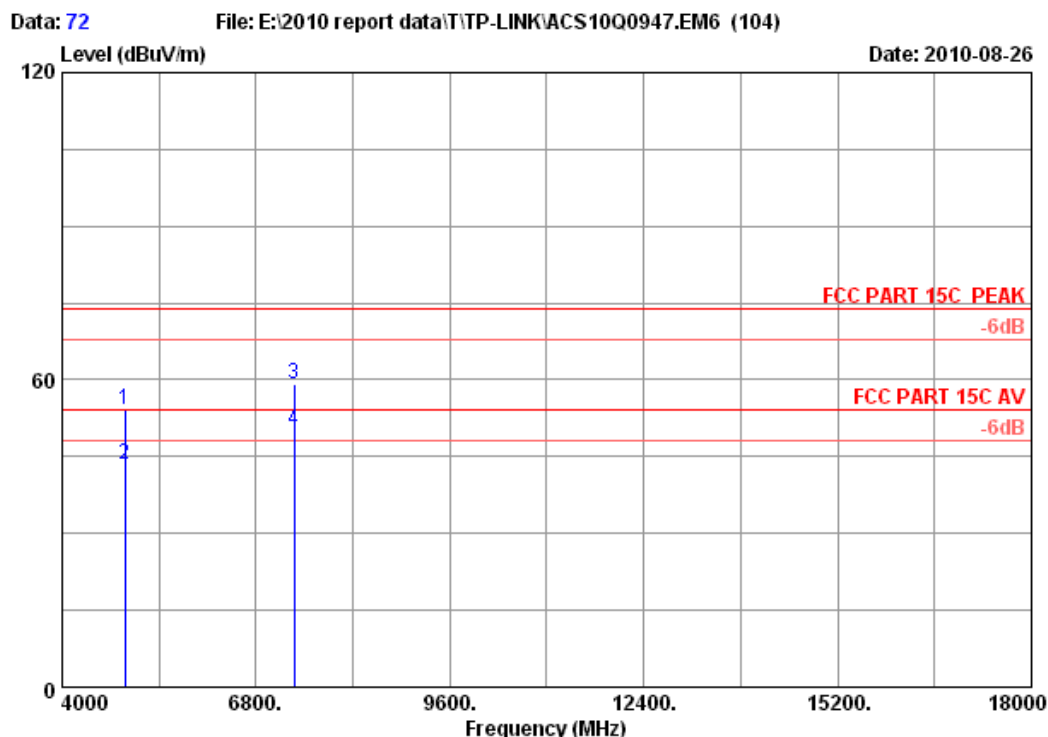
Data: 71

File: E:\2010 report data\T\TP-LINK\ACS10Q0947.EM6 (104)

Date: 2010-08-26



Site no.	: 10m Chamber	Data no.	: 71
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Sunny-lu
EUT	: 300Mbps High Gain Wireless N USB Adapter		
Power	: DC 5V From PC Input AC 120V/60Hz		
Test mode	: IEEE802.11n HT40 CH7 2452MHz Tx		
M/N	: TL-WN822N		



Site no. : 10m Chamber Data no. : 72
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Sunny-lu
EUT : 300Mbps High Gain Wireless N USB Adapter
Power : DC 5V From PC Input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH7 2452MHz Tx
M/N : TL-WN822N

	Ant.	Cable	Amp.		Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 4904.000	34.46	12.47	35.27	42.40	54.06	74.00	19.94	Peak	
2 4904.000	34.46	12.47	35.27	31.76	43.42	54.00	10.58	Average	
3 7356.000	37.56	15.66	35.03	41.03	59.22	74.00	14.78	Peak	
4 7356.000	37.56	15.66	35.03	32.11	50.30	54.00	3.70	Average	

Remarks:

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

5. CONDUCTED SPURIOUS EMISSIONS

5.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08,1 0	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08,1 0	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08,1 0	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

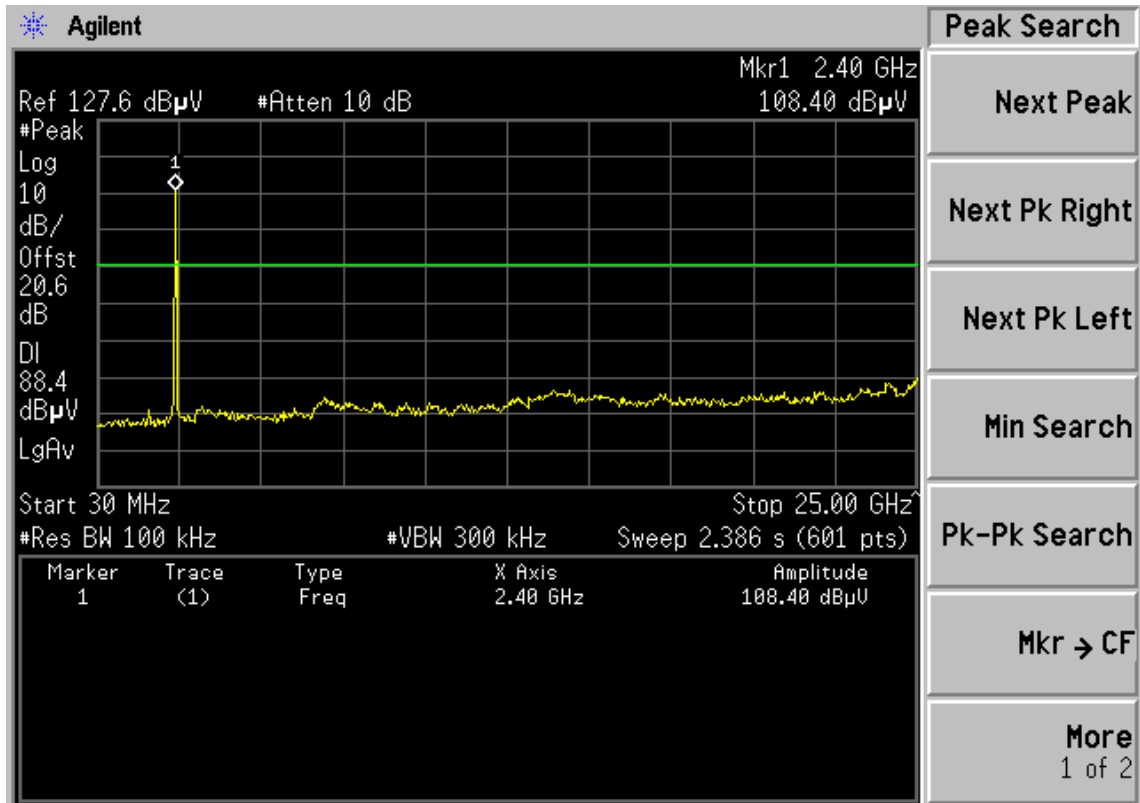
The transmitter output was connected to a spectrum analyzer, The resolution bandwidth is set to 100 kHz, The video bandwidth is set to 300 kHz and measure all the emissions detected.

5.4. Test result

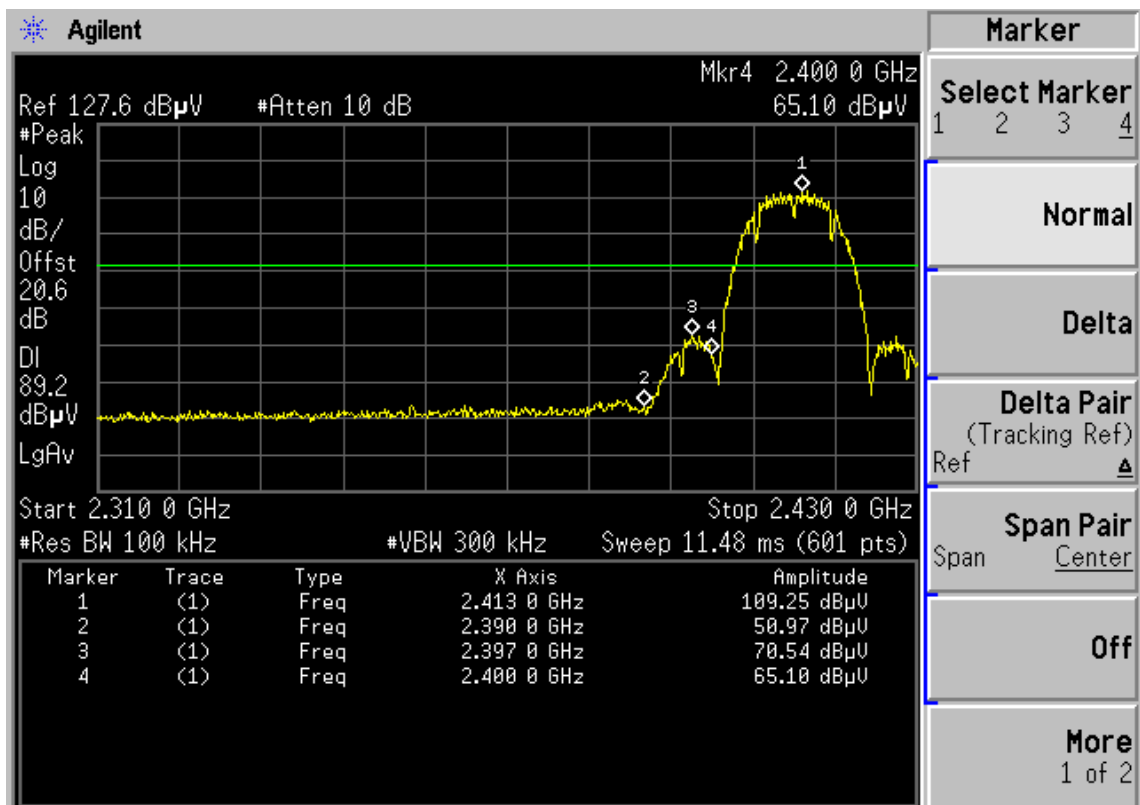
PASS (The testing data was attached in the next pages.)

Chain 0

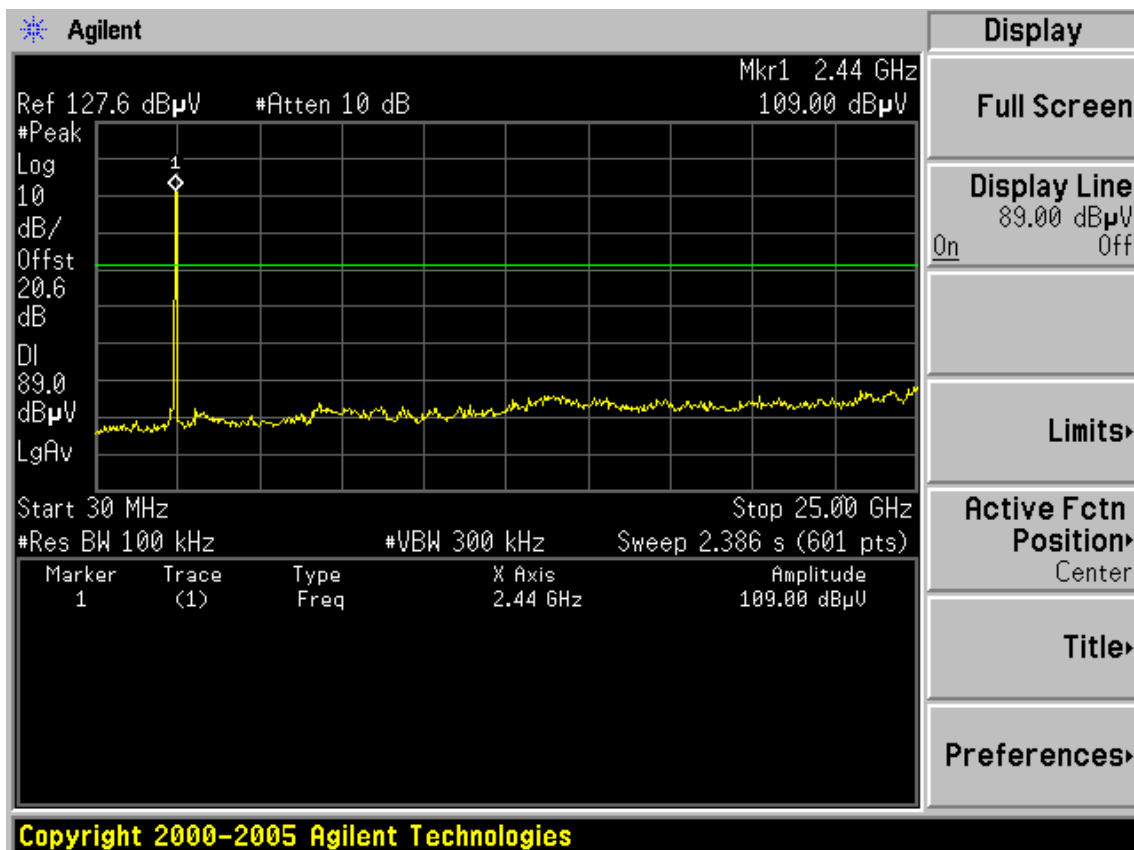
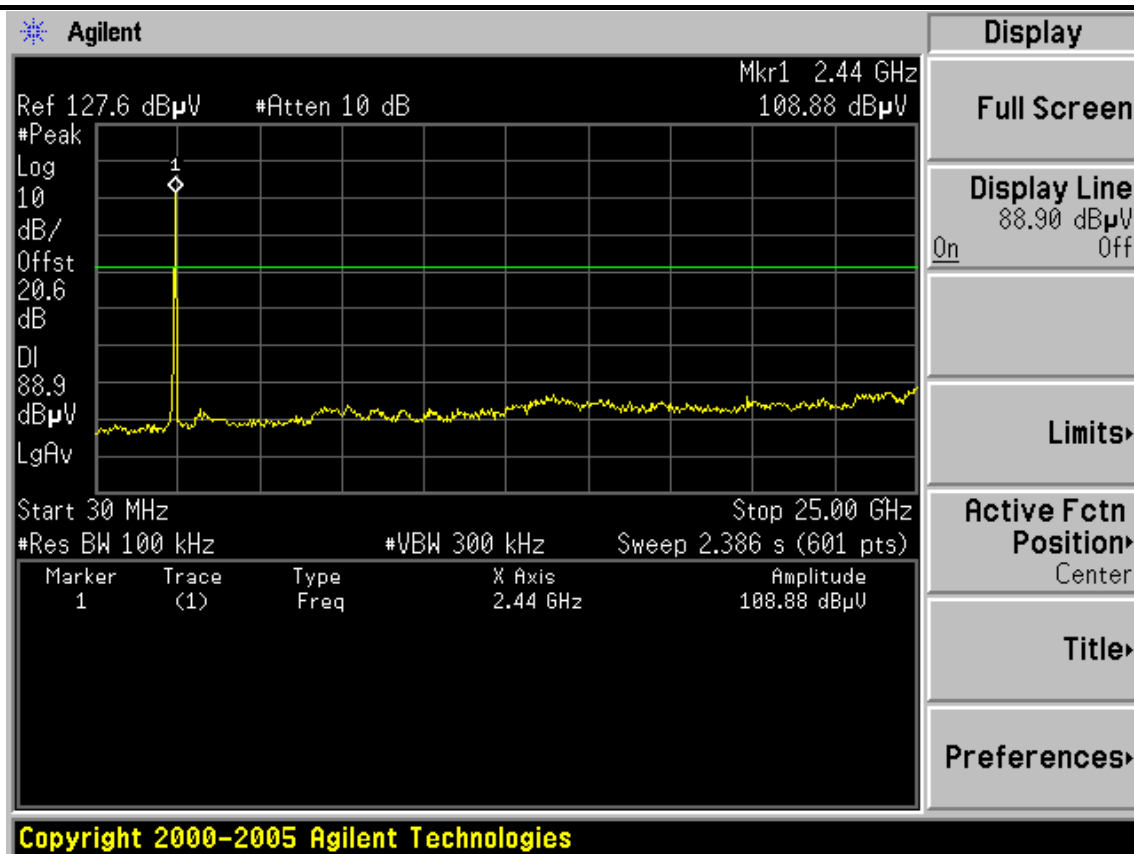
Test Mode: IEEE 802.11b TX

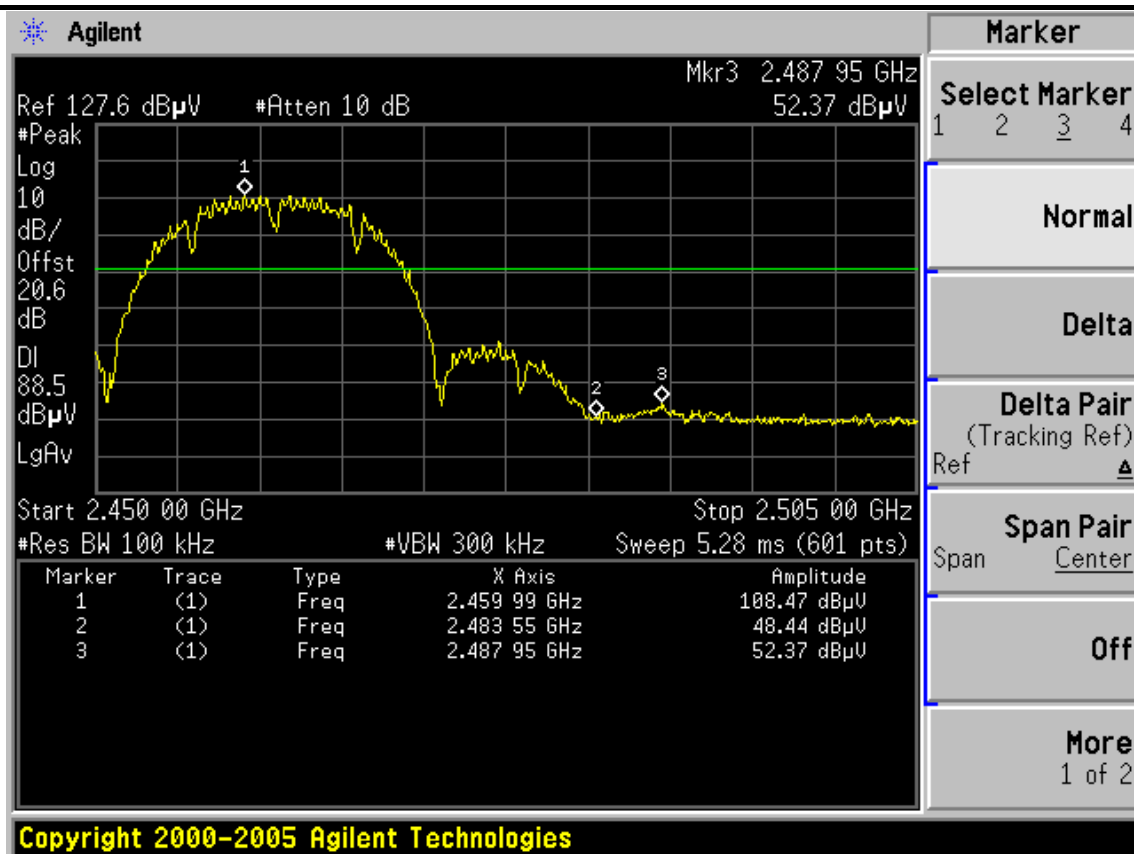


Copyright 2000-2005 Agilent Technologies

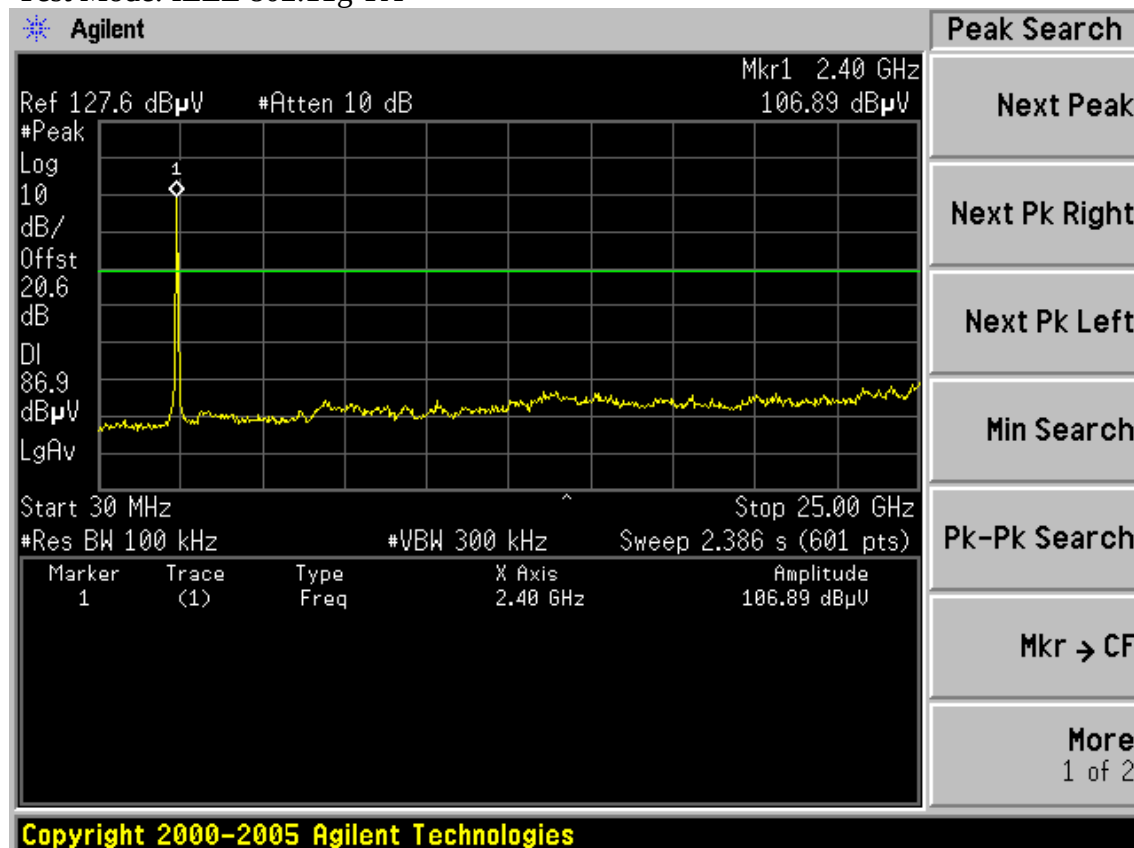


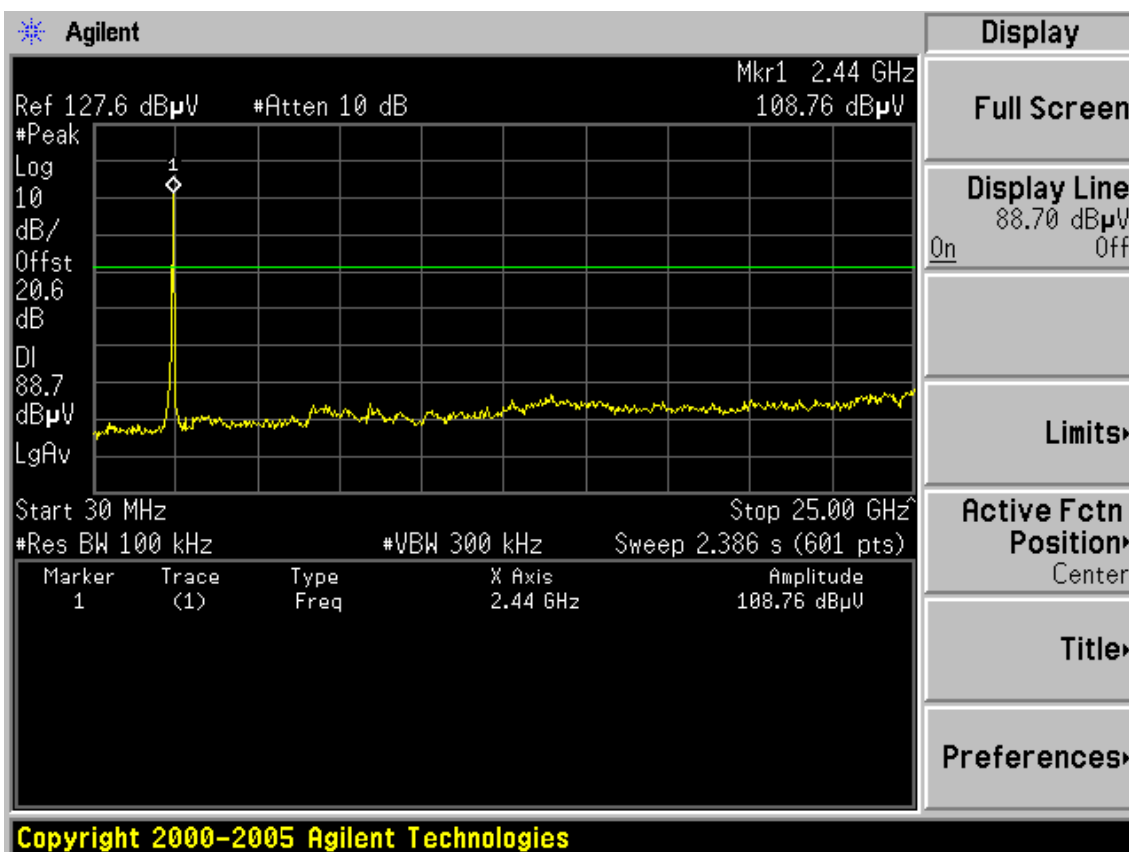
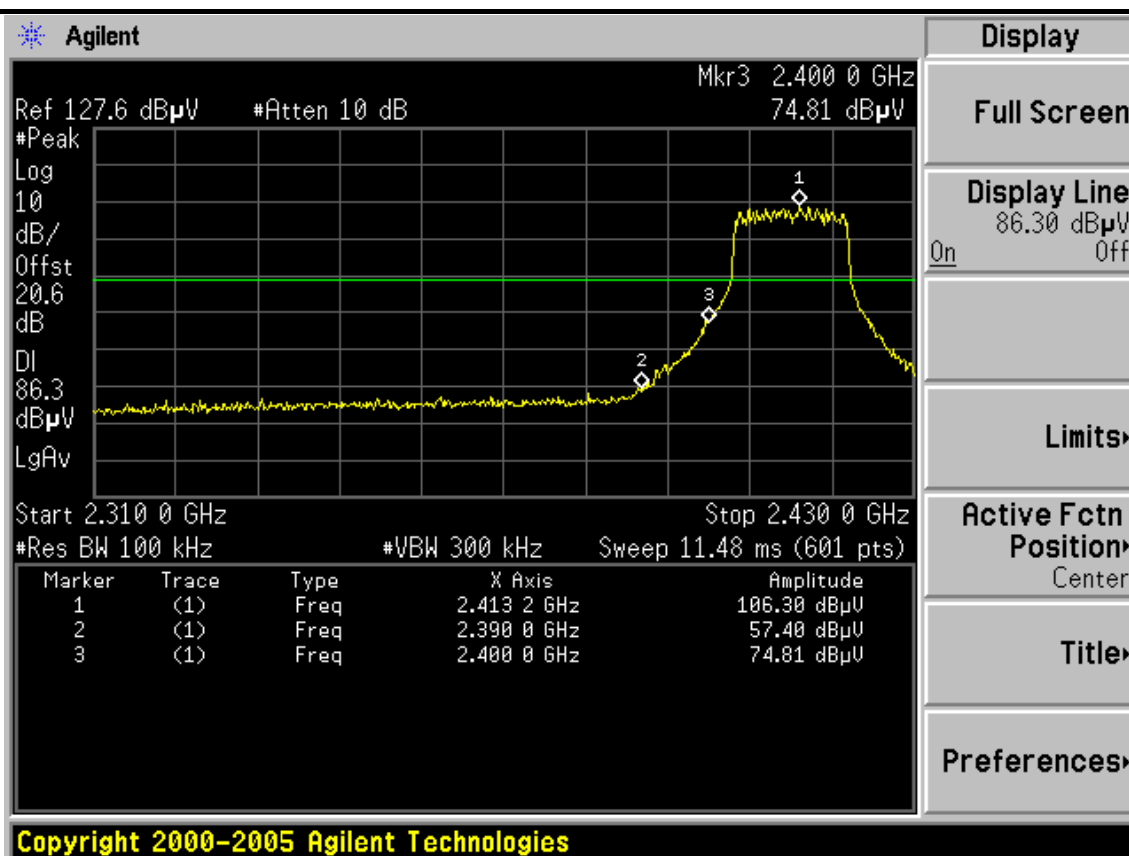
Copyright 2000-2005 Agilent Technologies

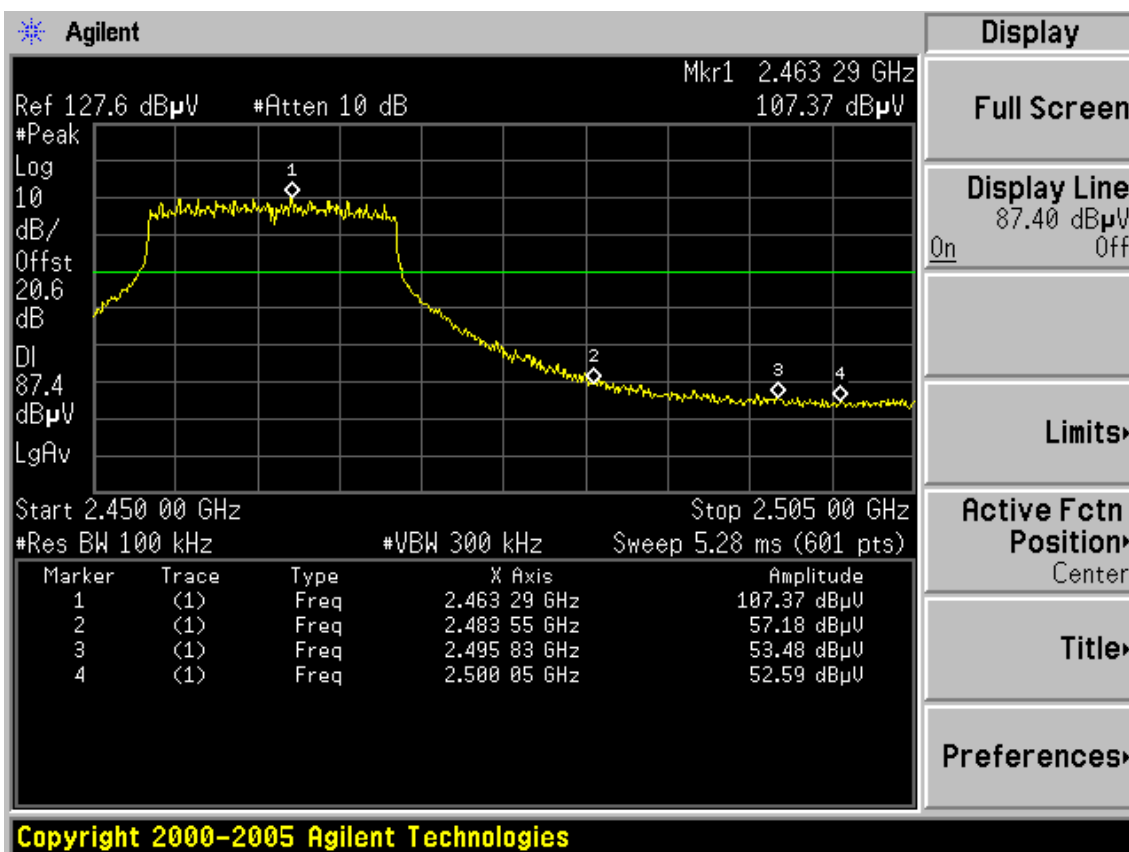
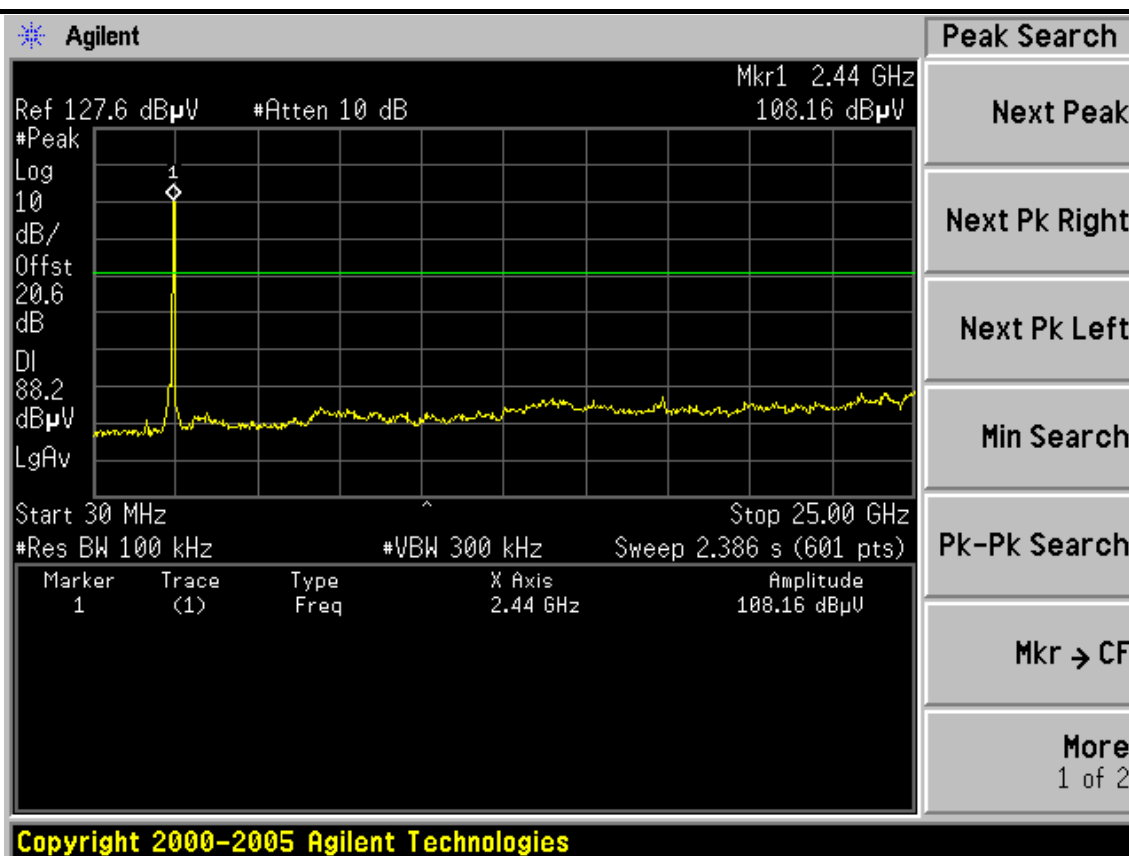




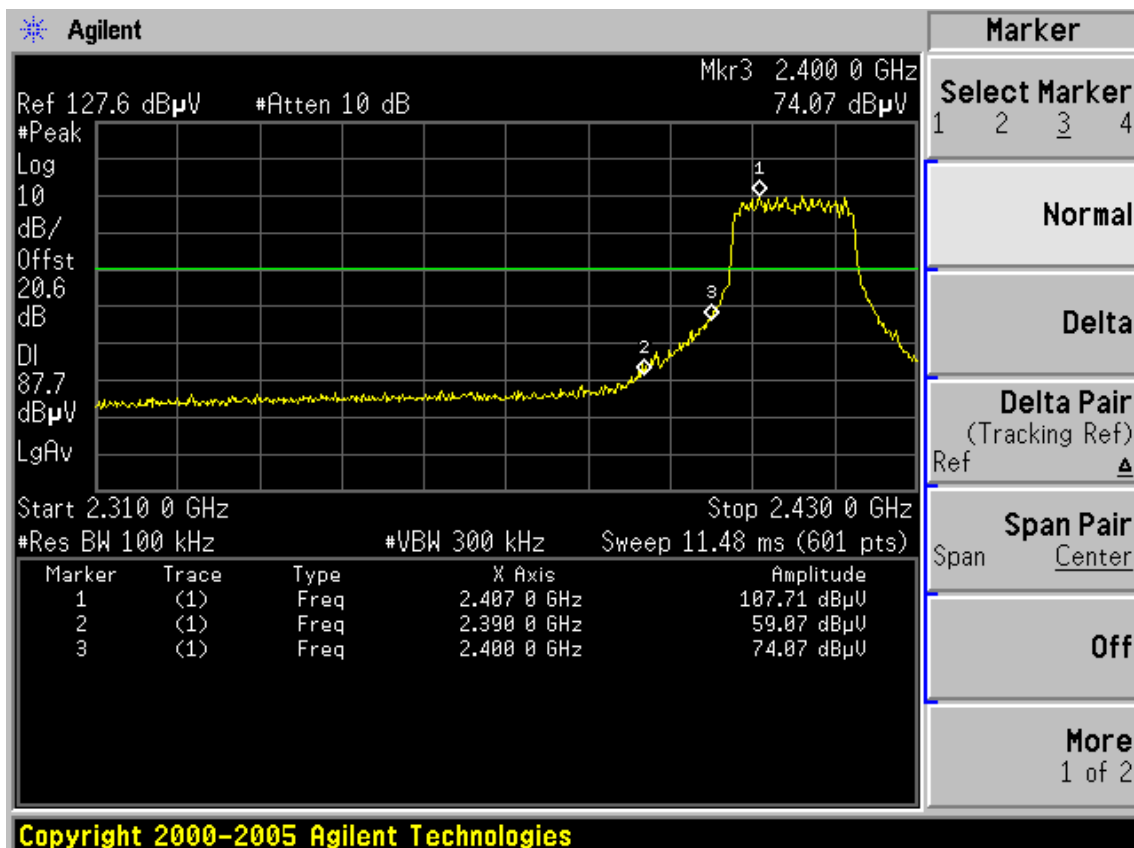
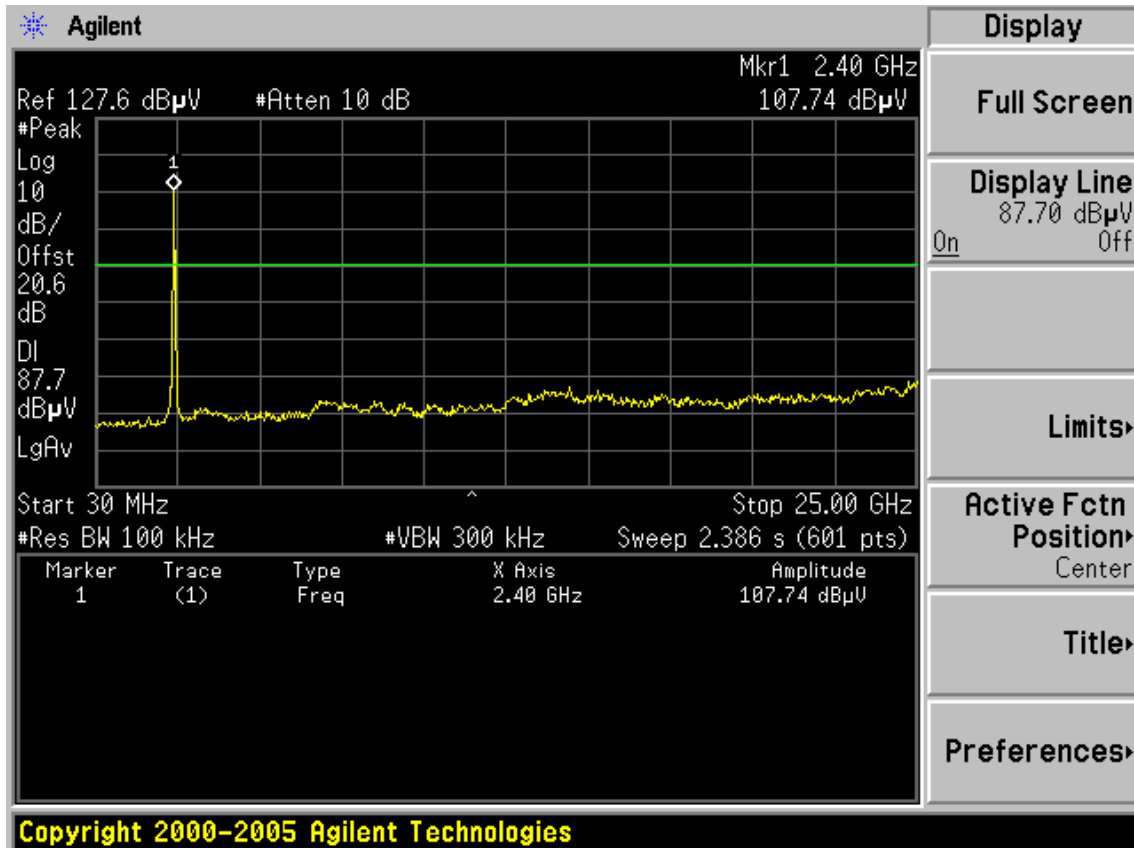
Test Mode: IEEE 802.11g TX

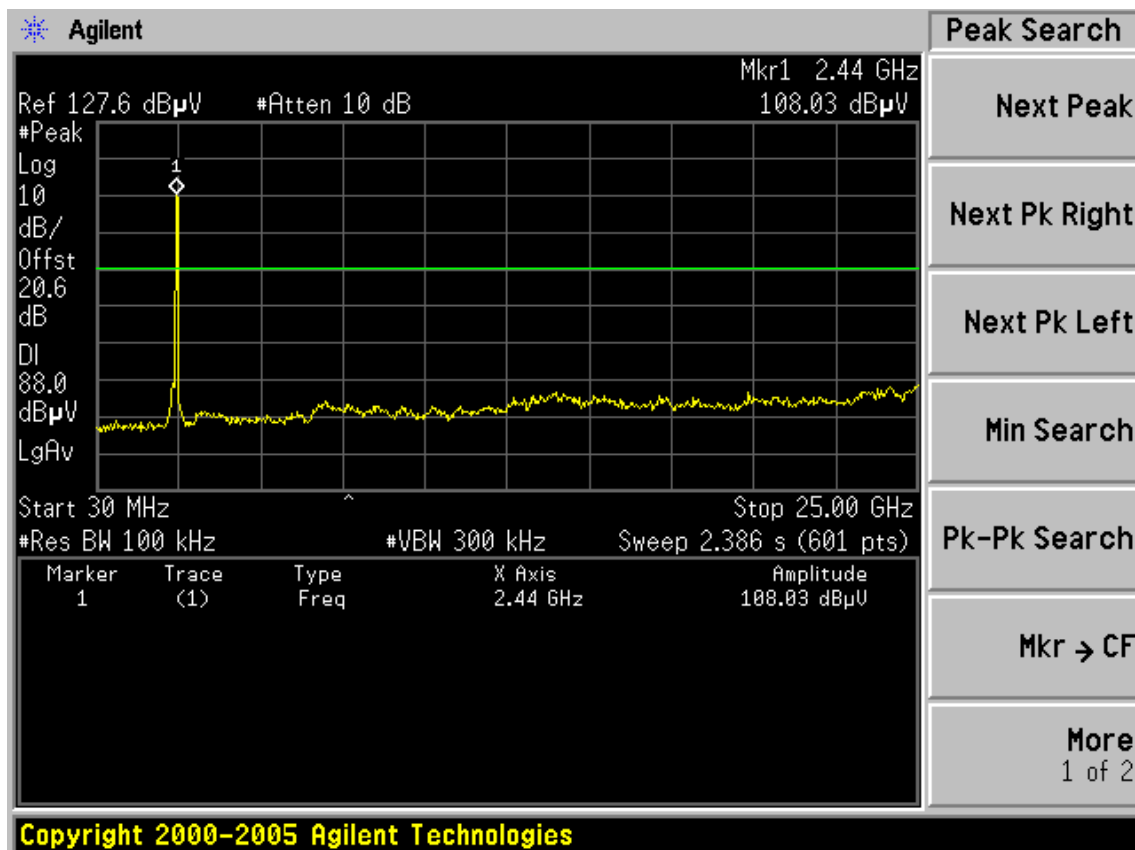
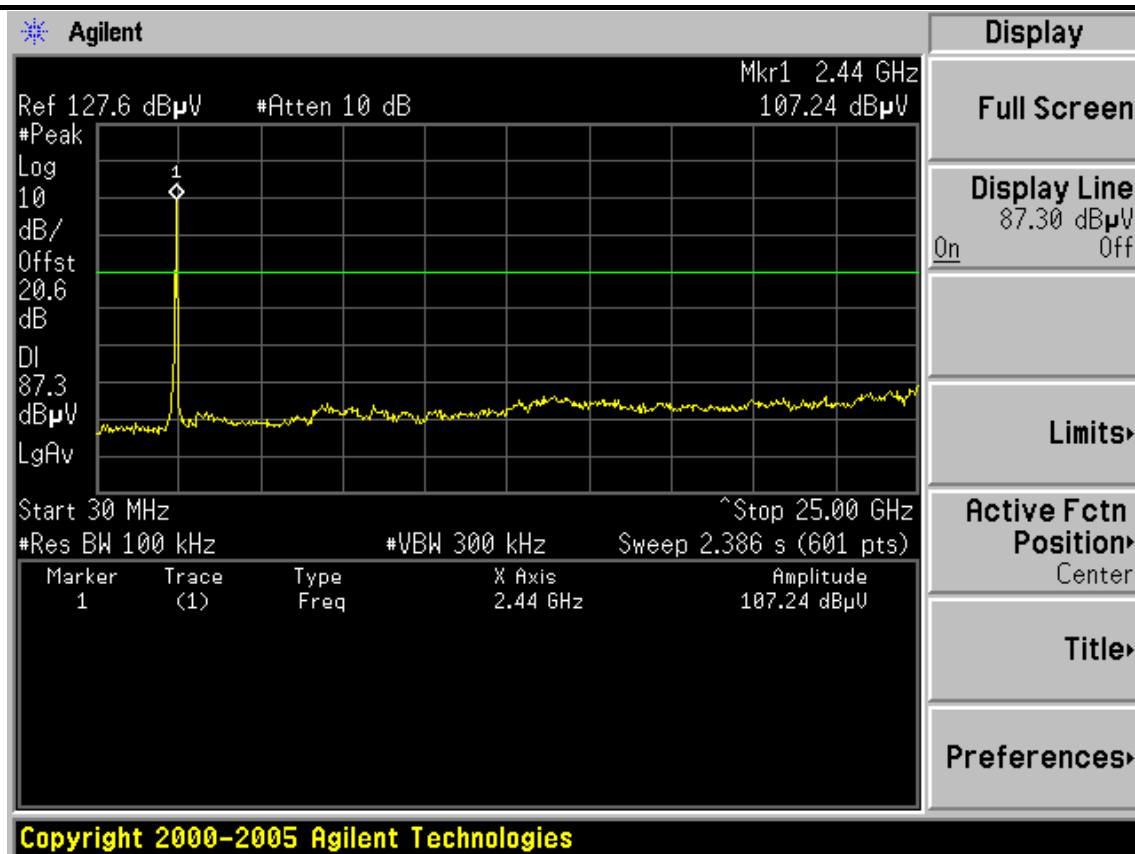


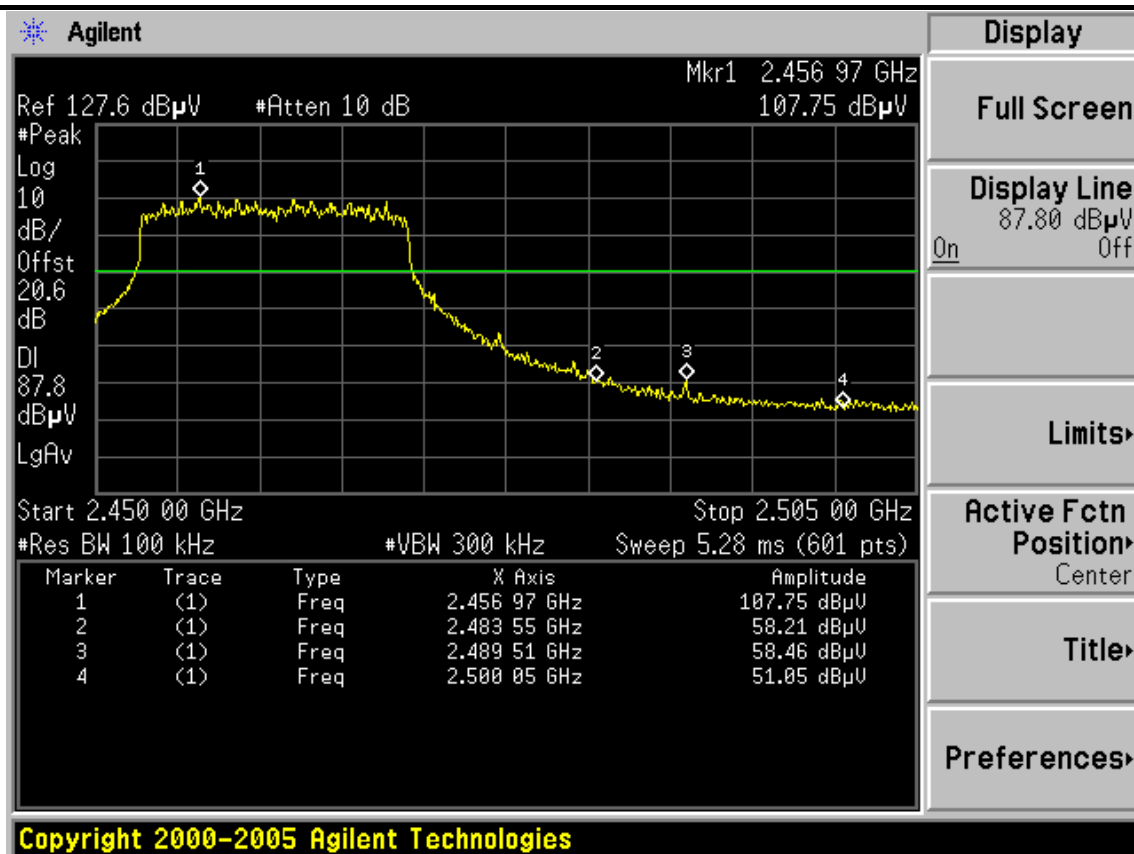




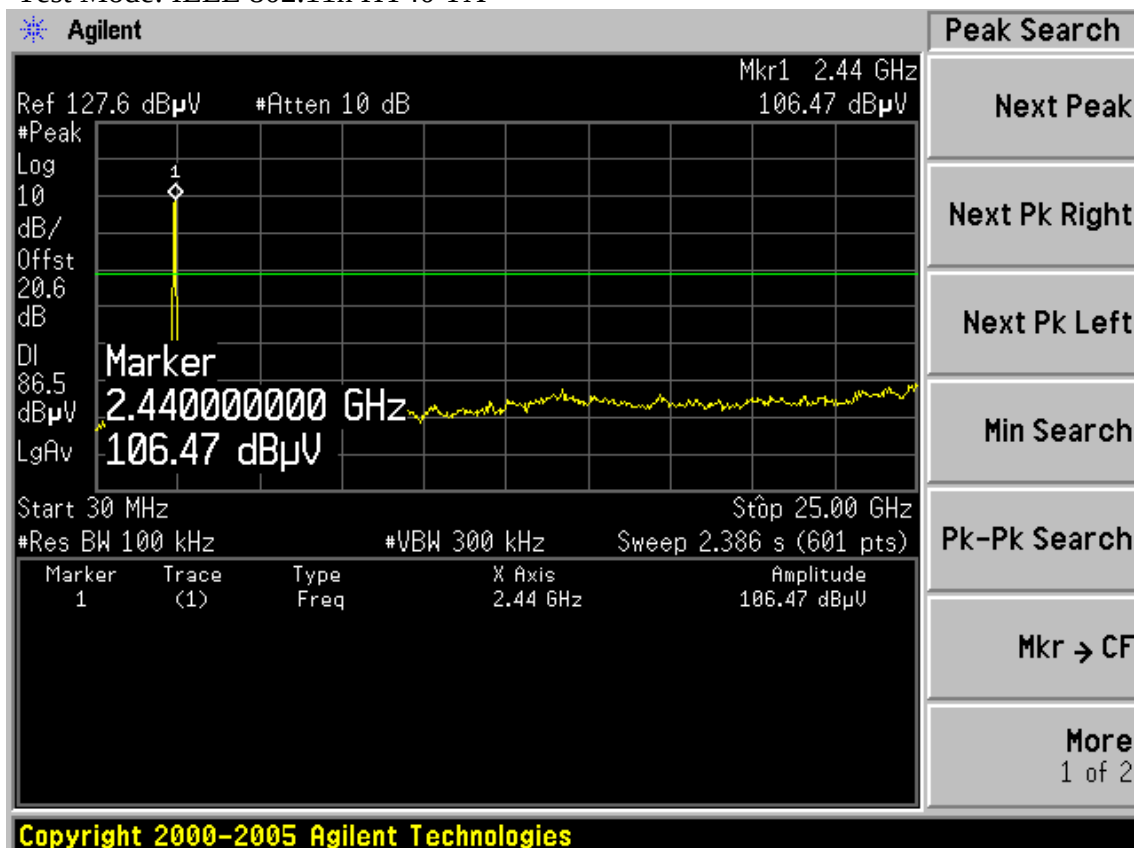
Test Mode: IEEE 802.11n HT20 TX

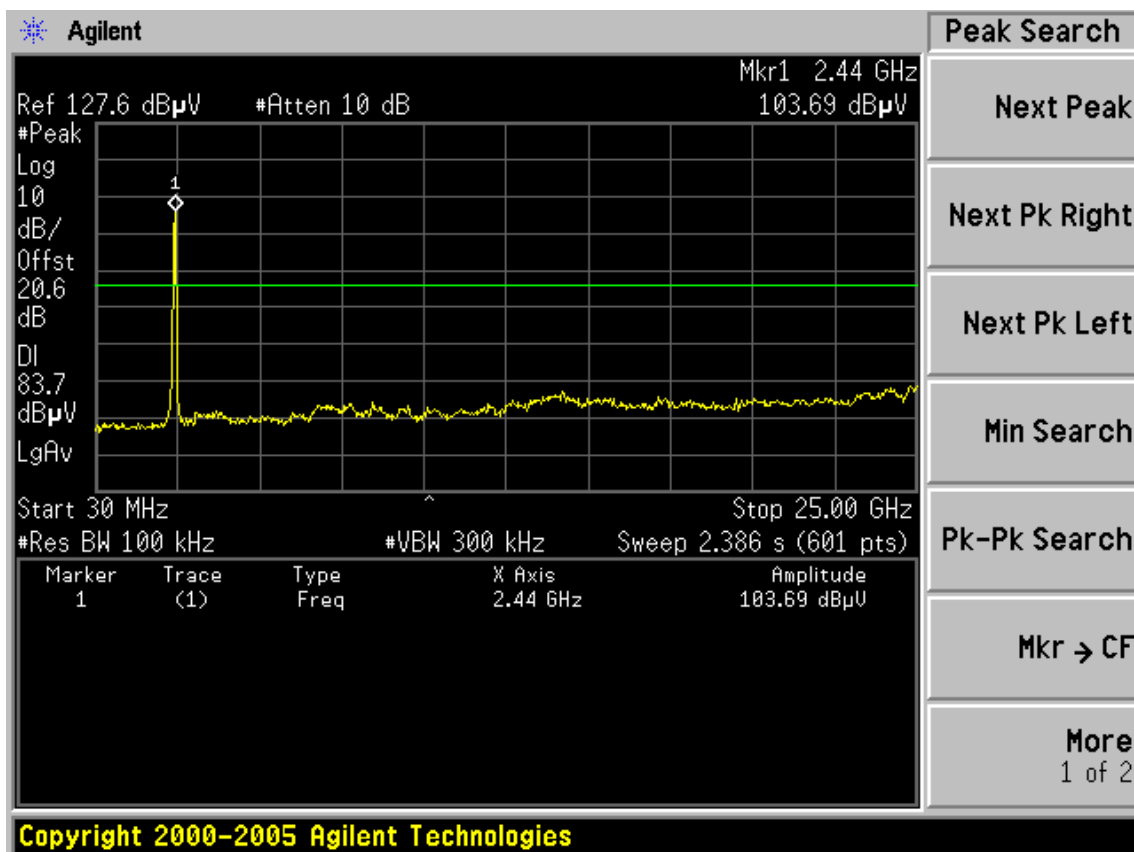
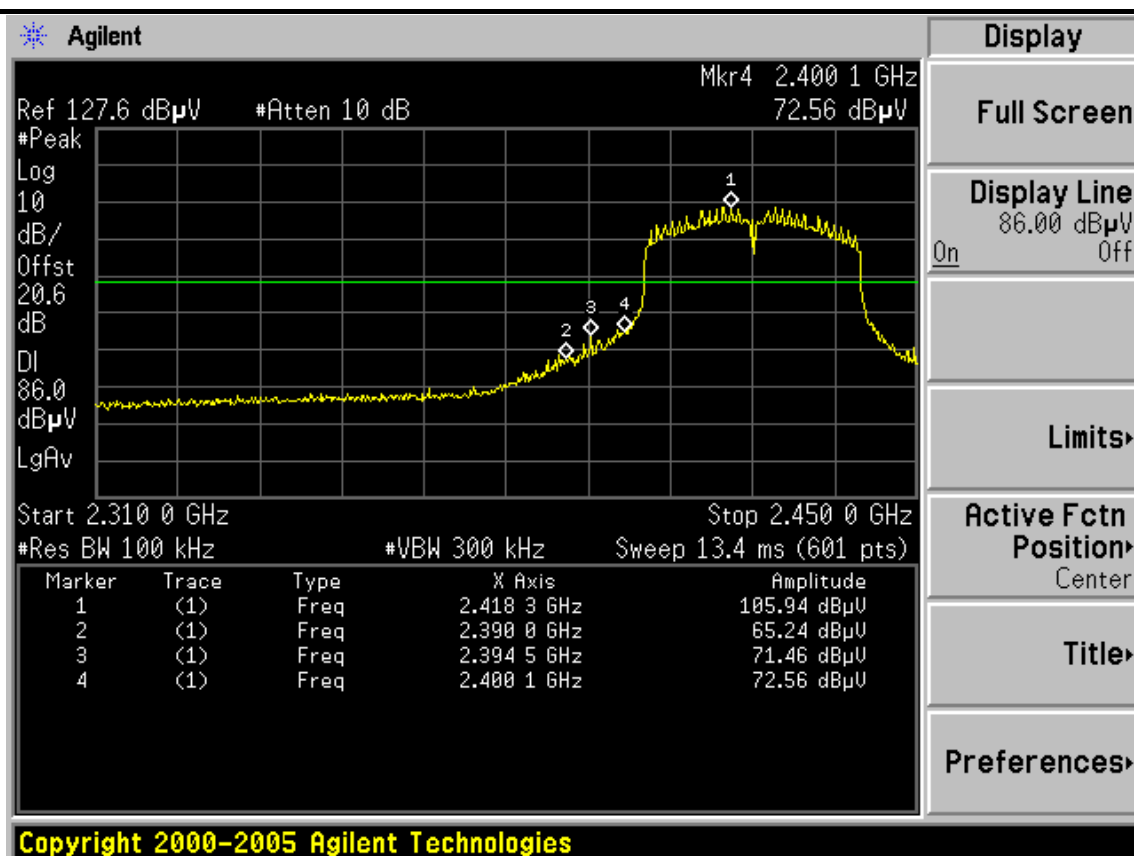


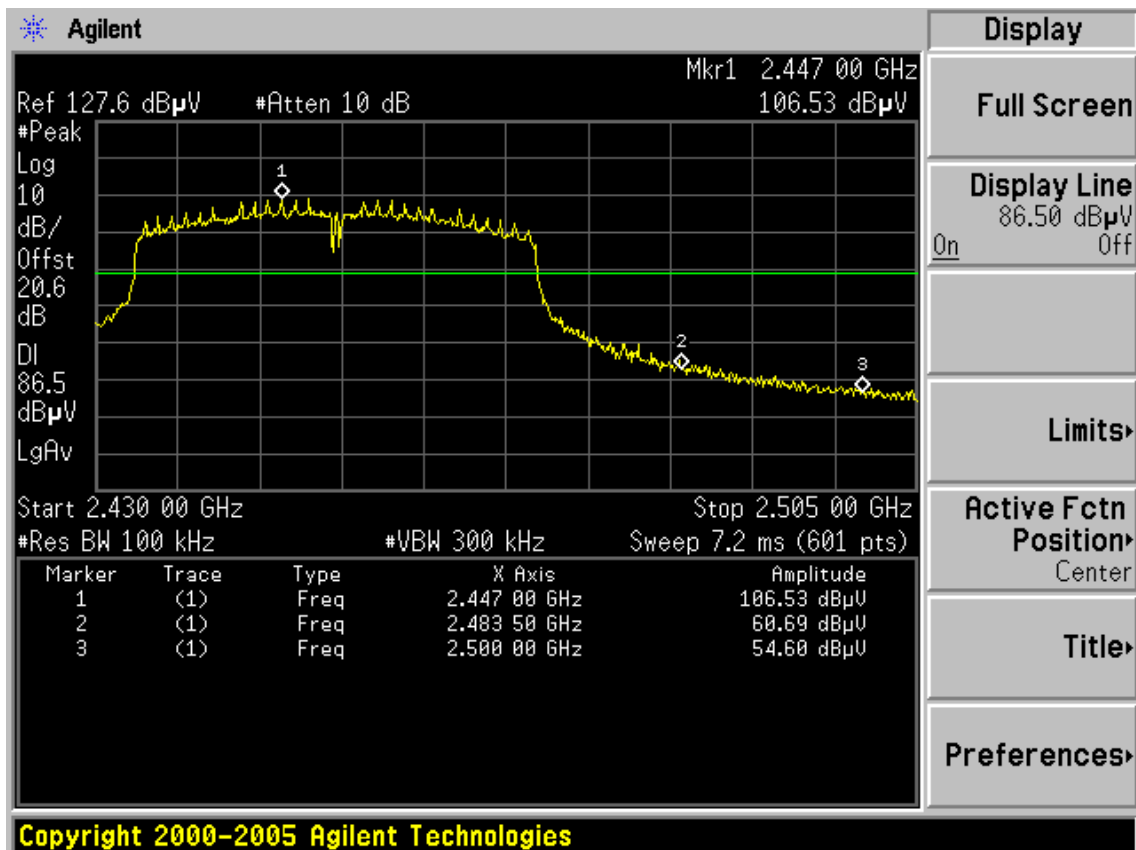
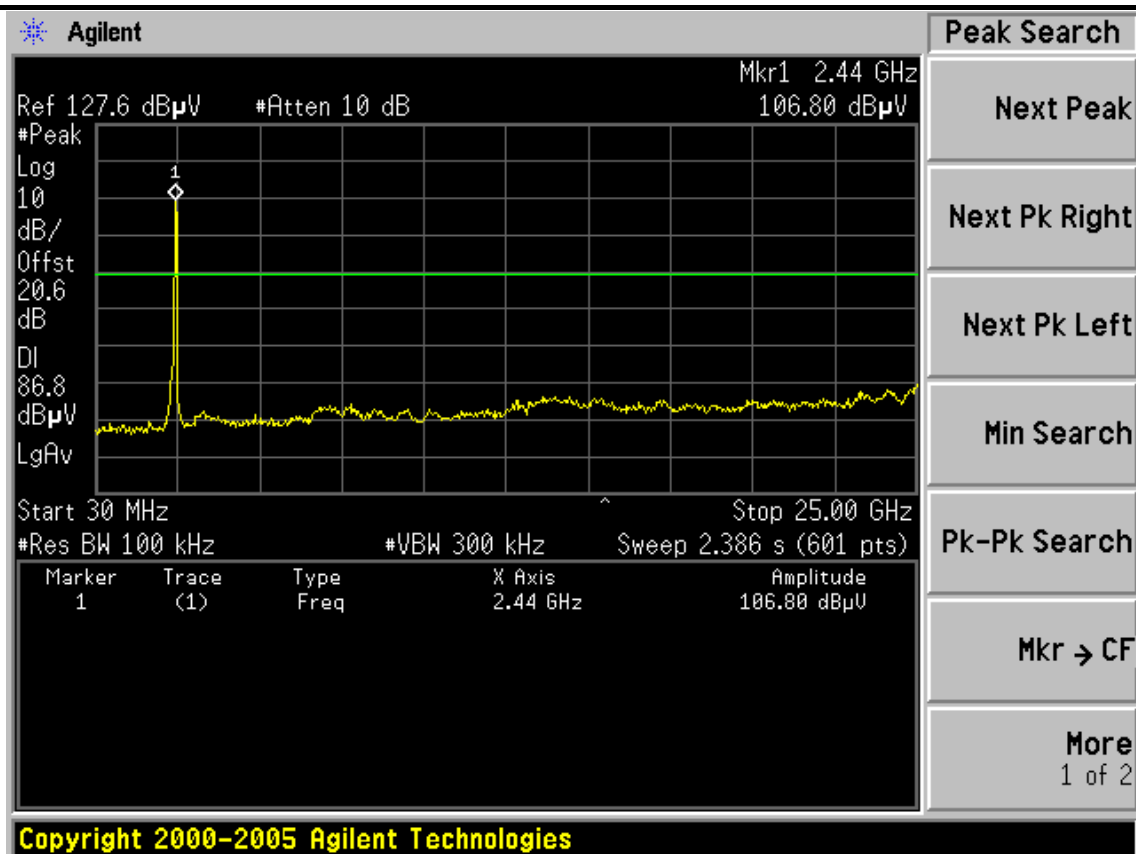




Test Mode: IEEE 802.11n HT40 TX

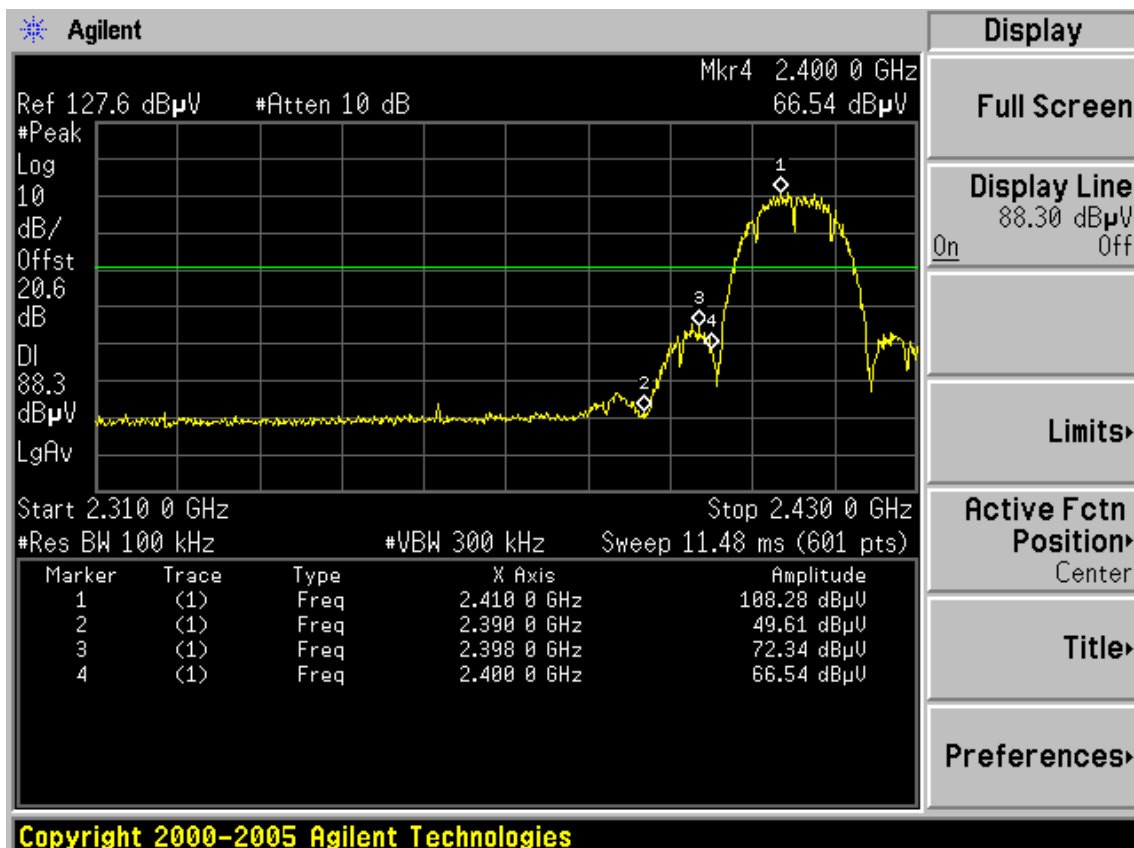
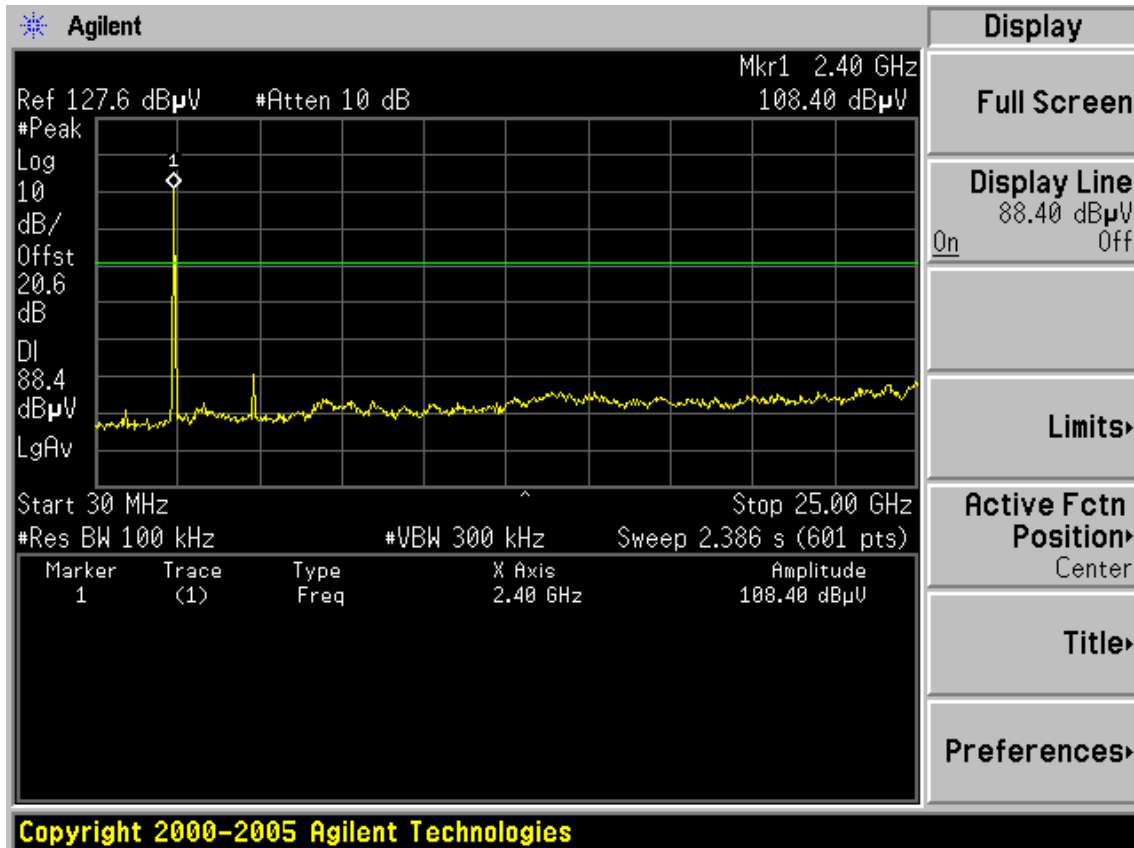


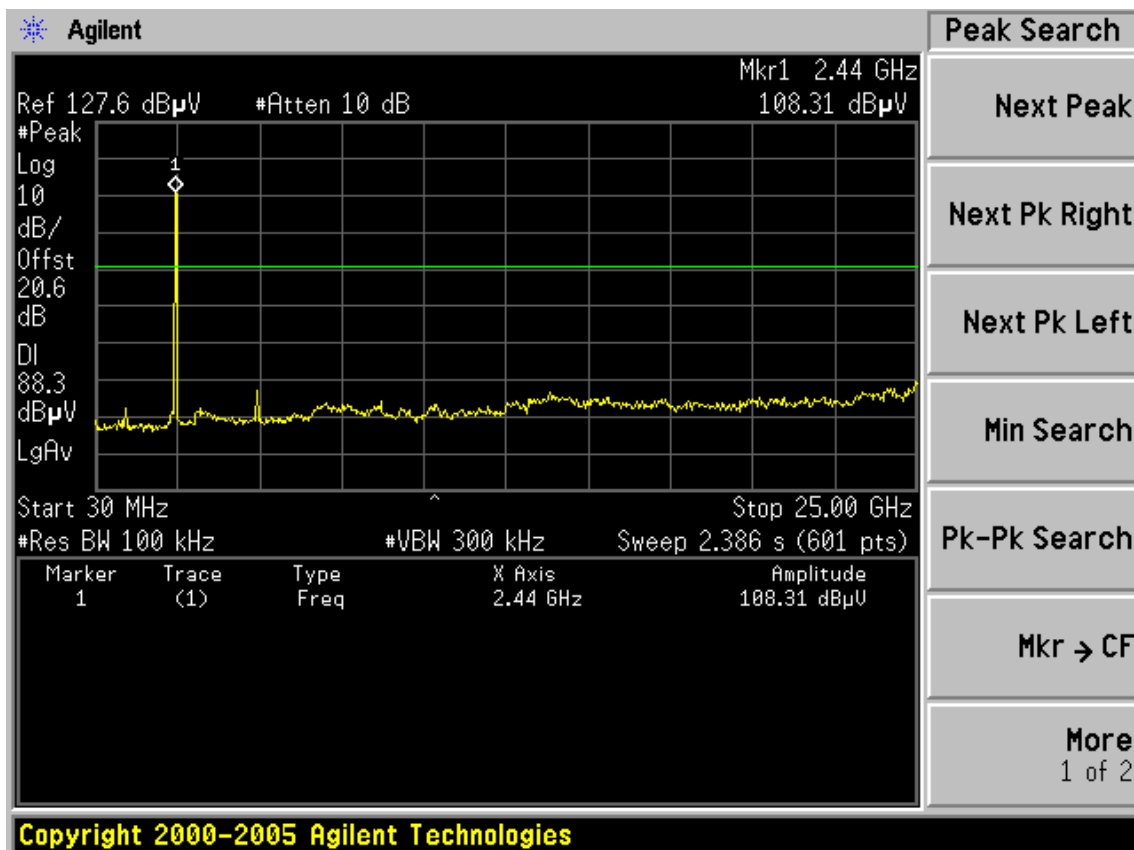
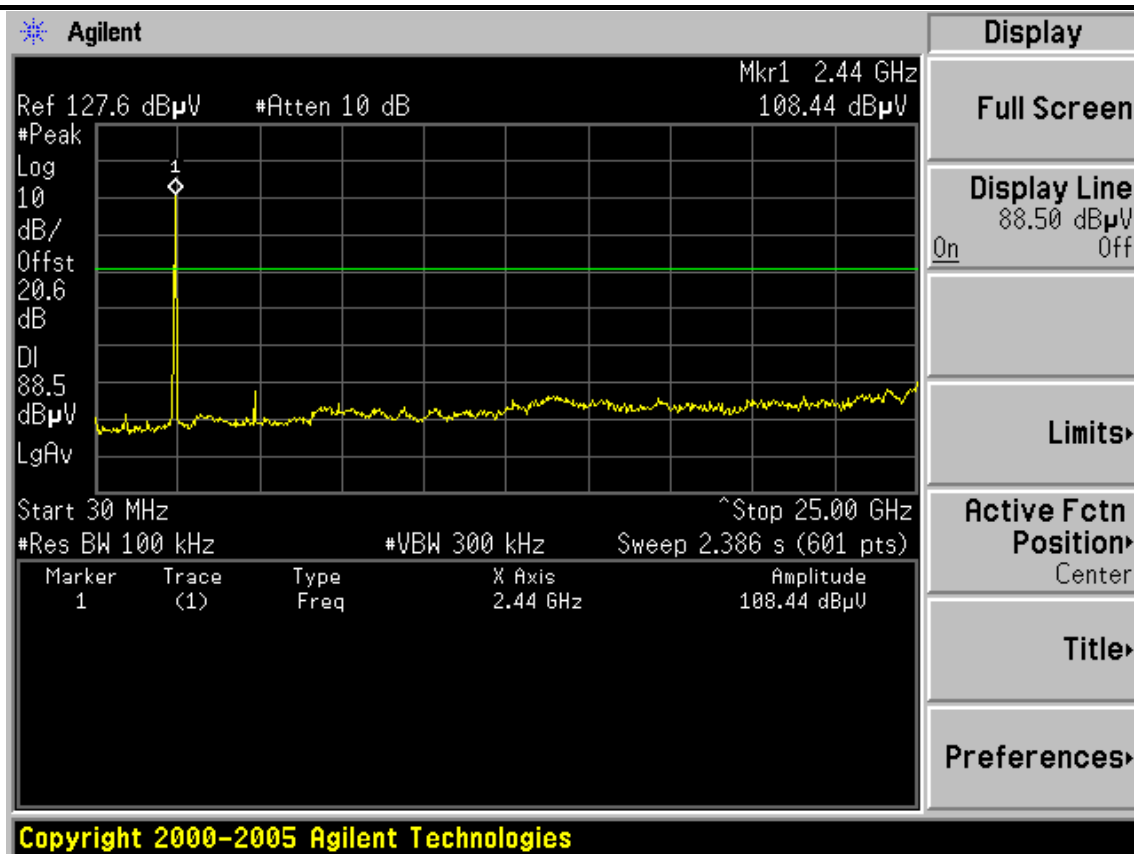


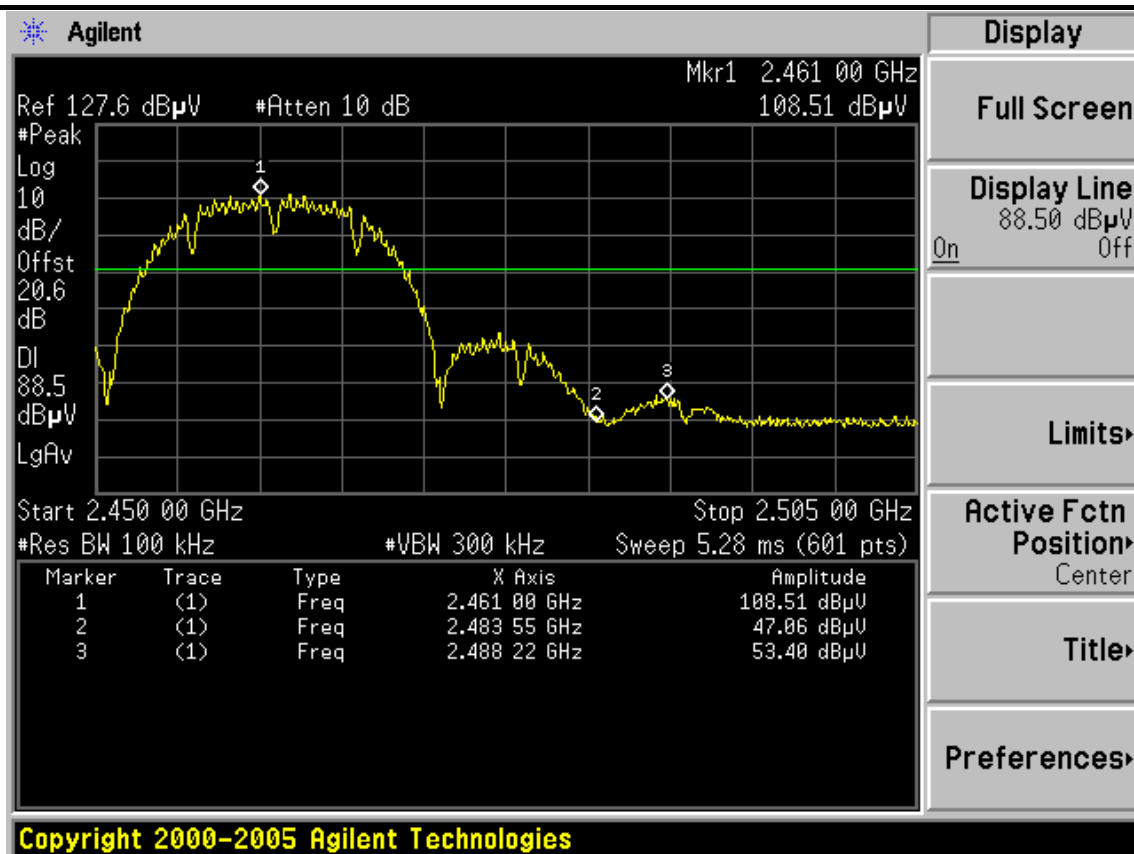


Chain 1

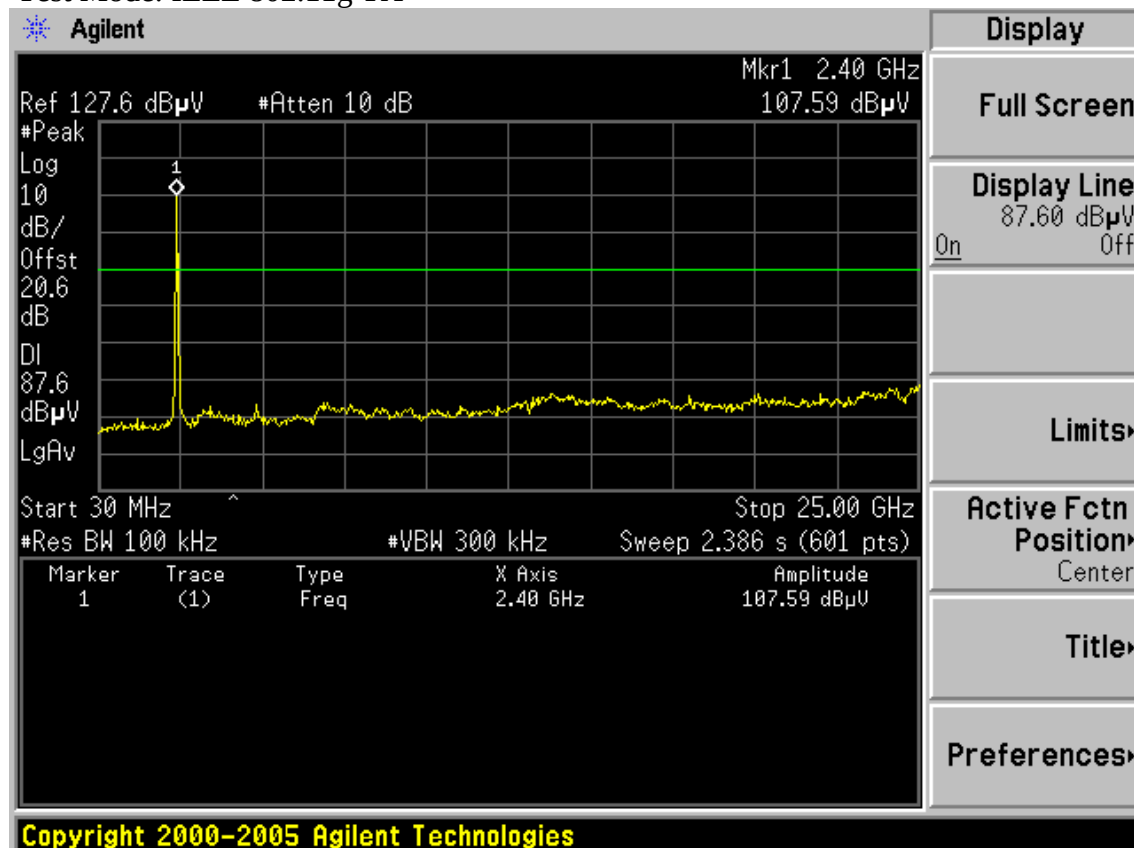
Test Mode: IEEE 802.11b TX

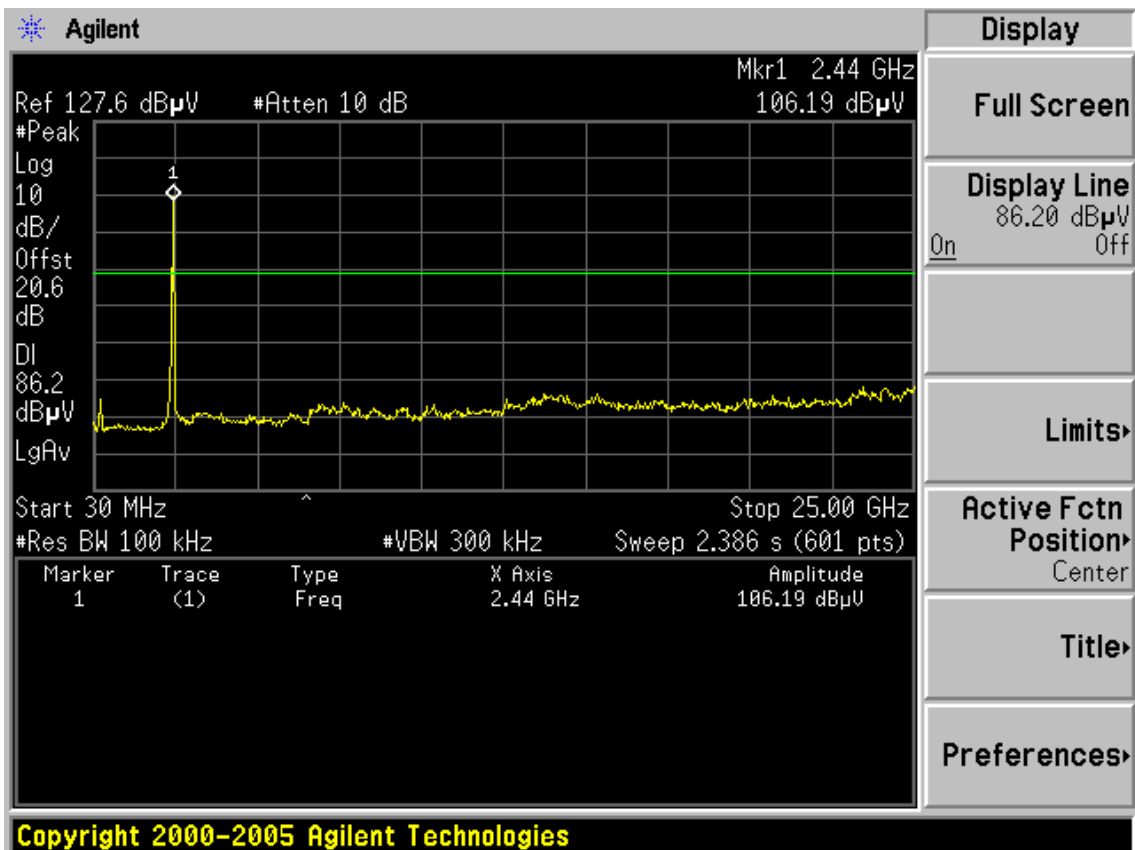
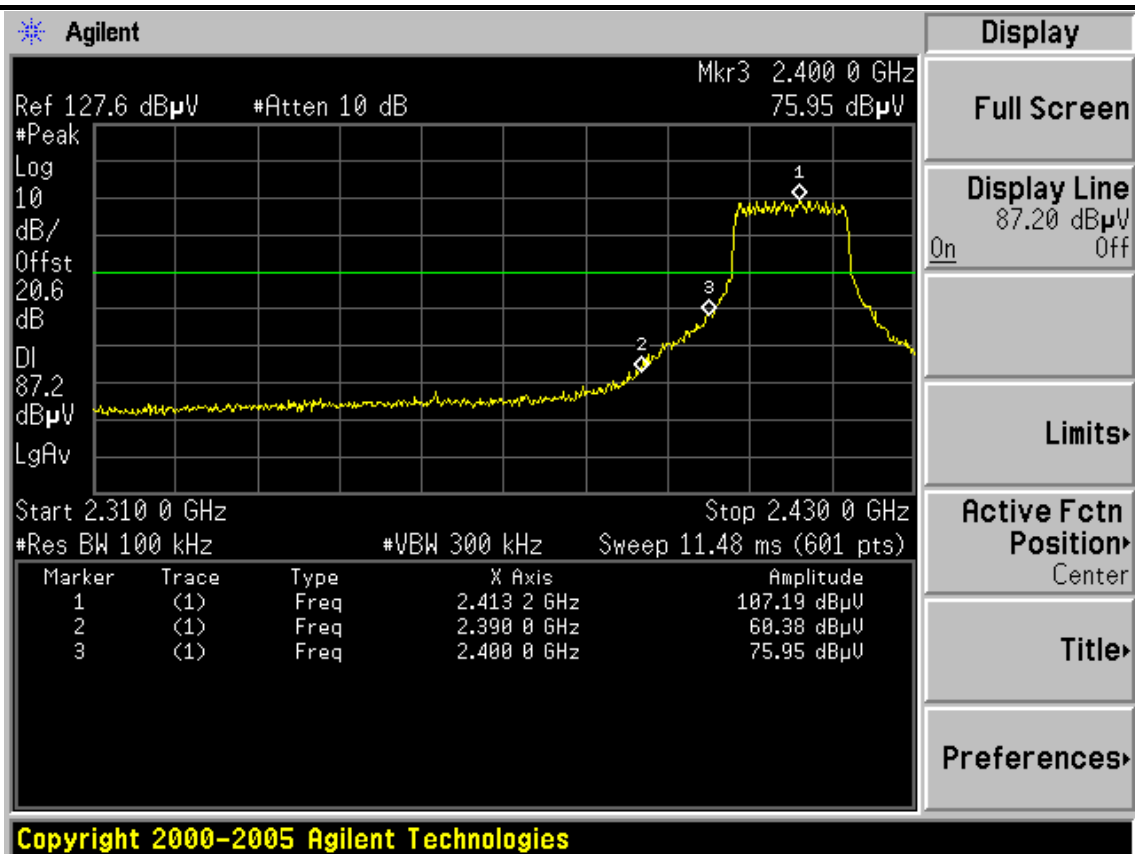


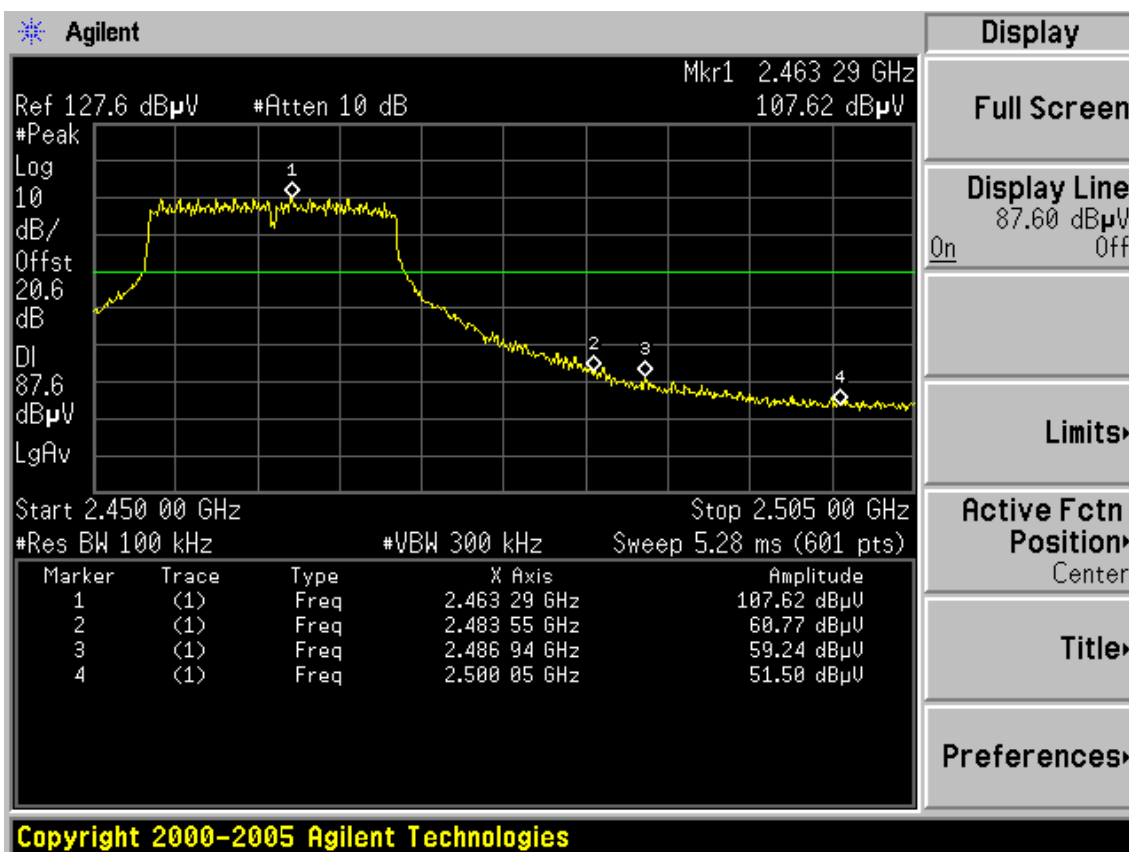
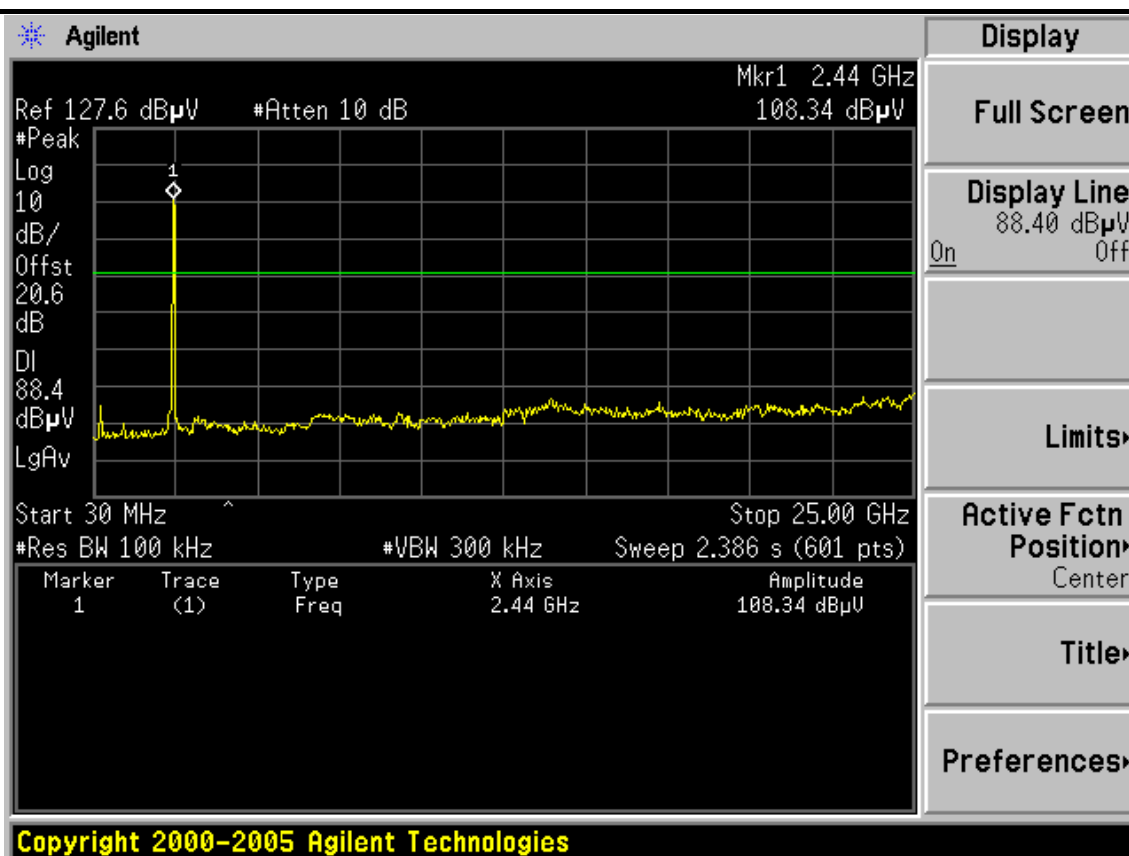




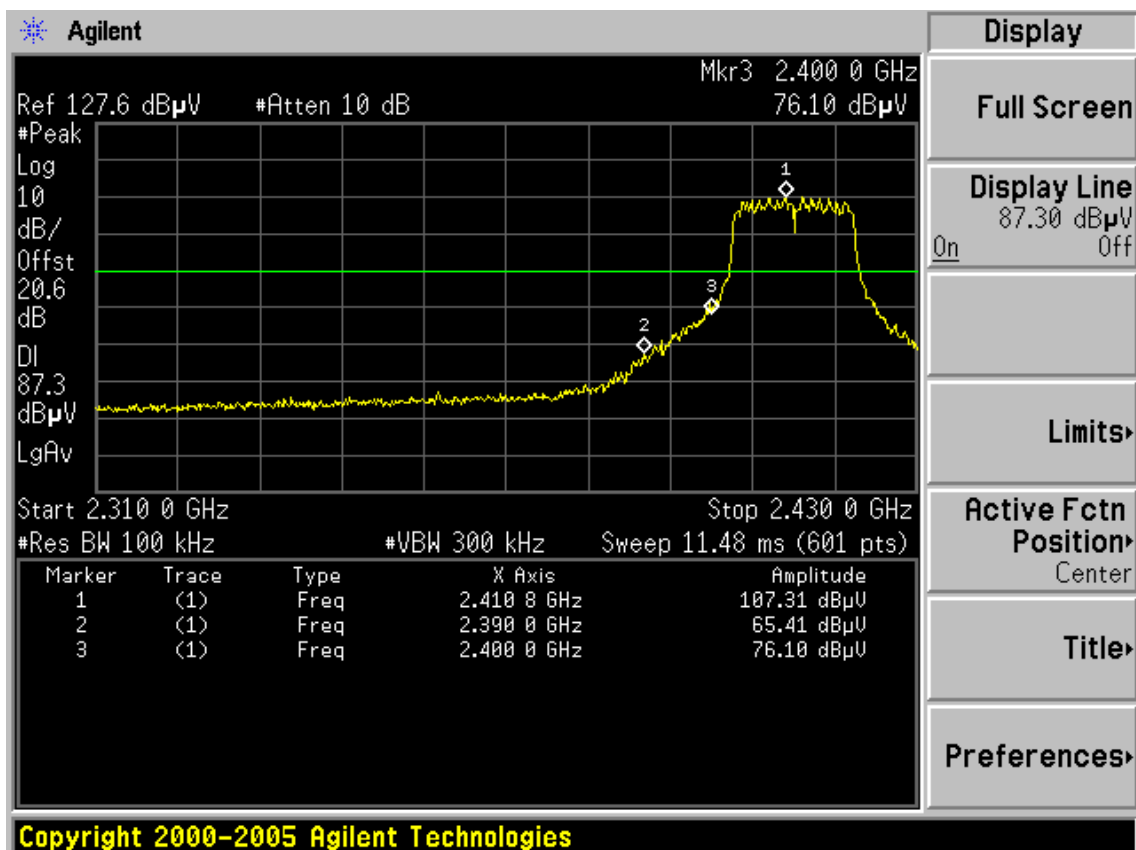
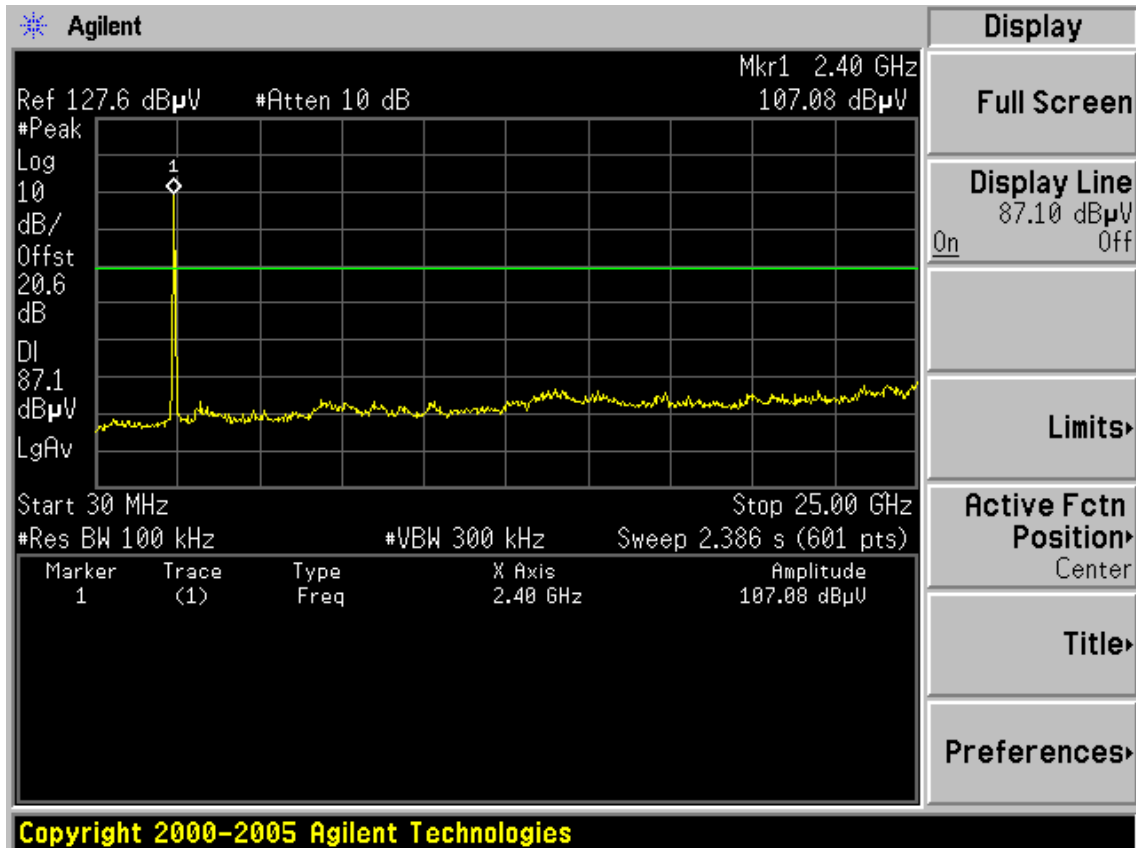
Test Mode: IEEE 802.11g TX

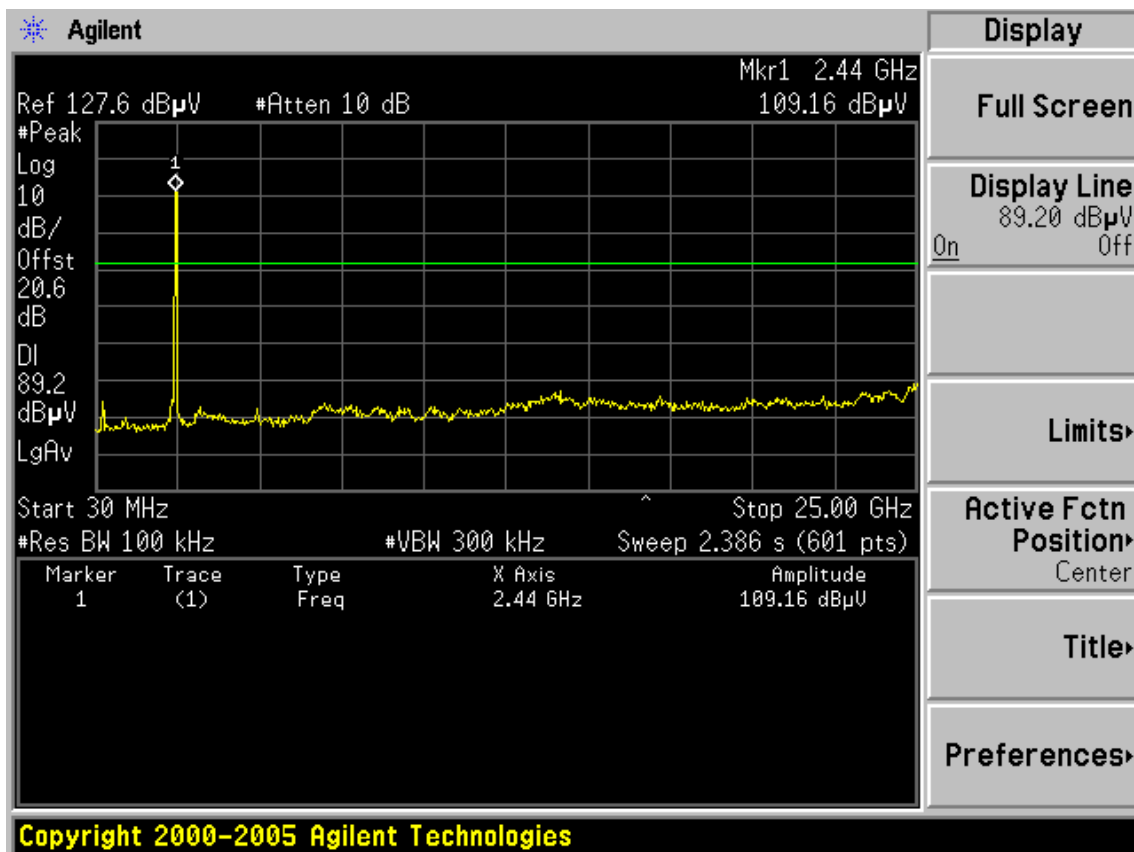
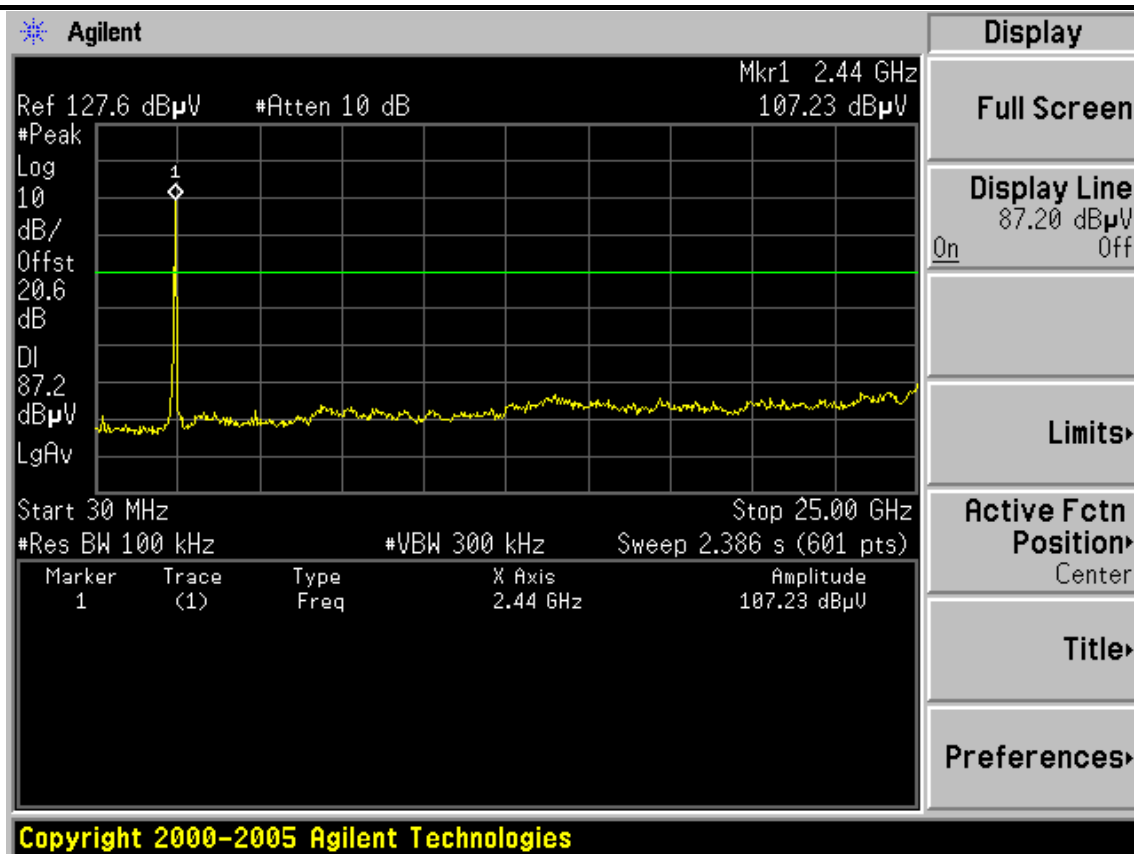


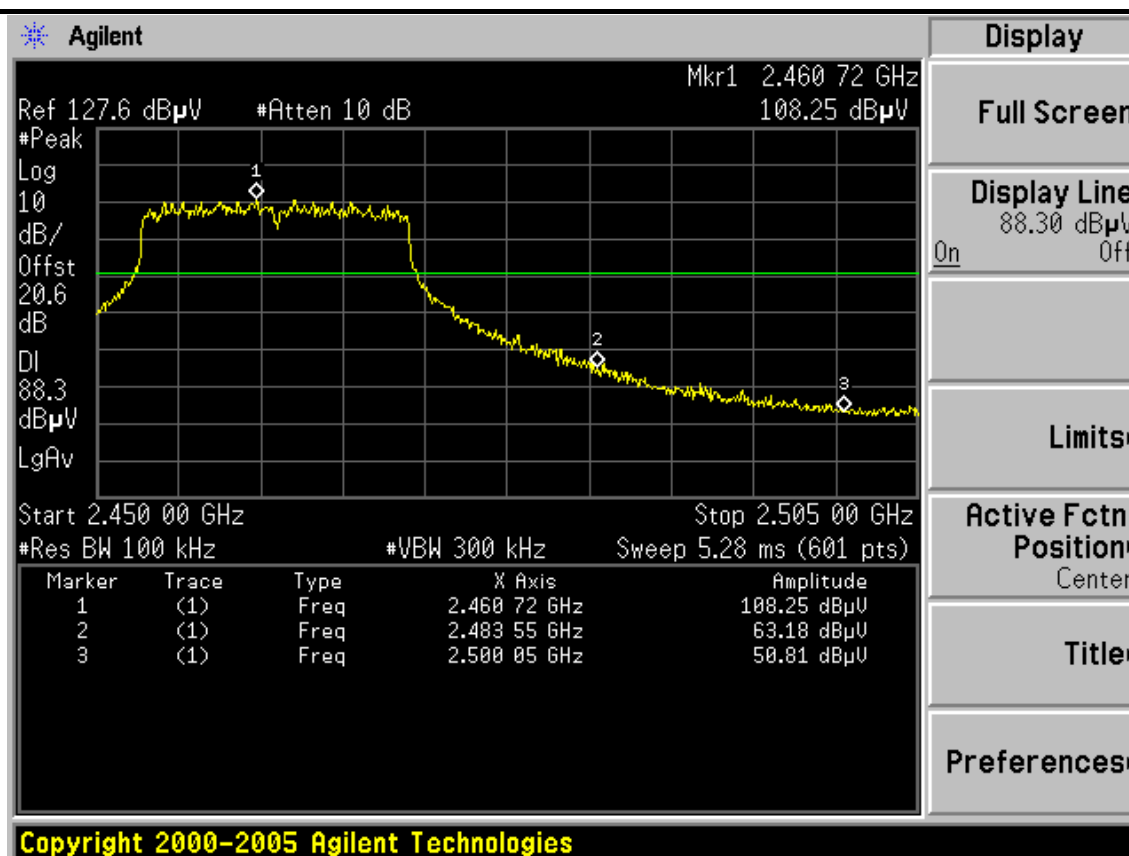




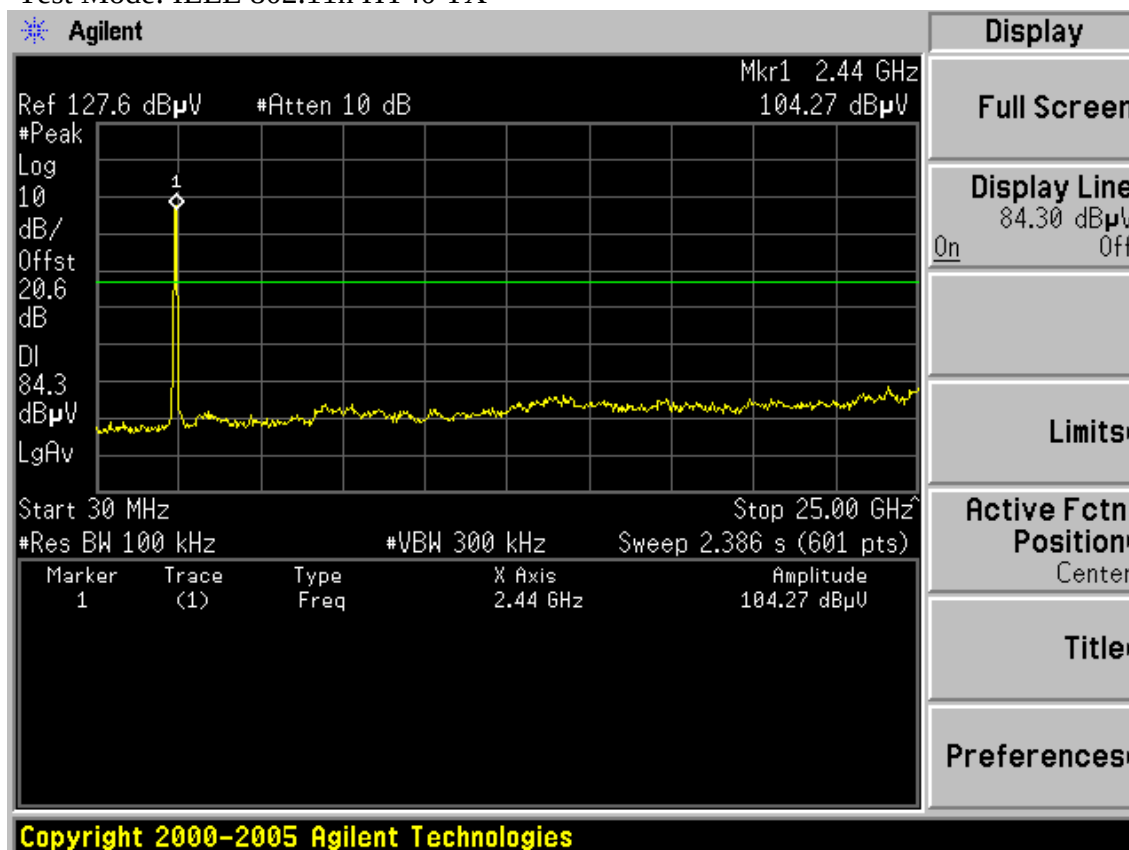
Test Mode: IEEE 802.11n HT20 TX

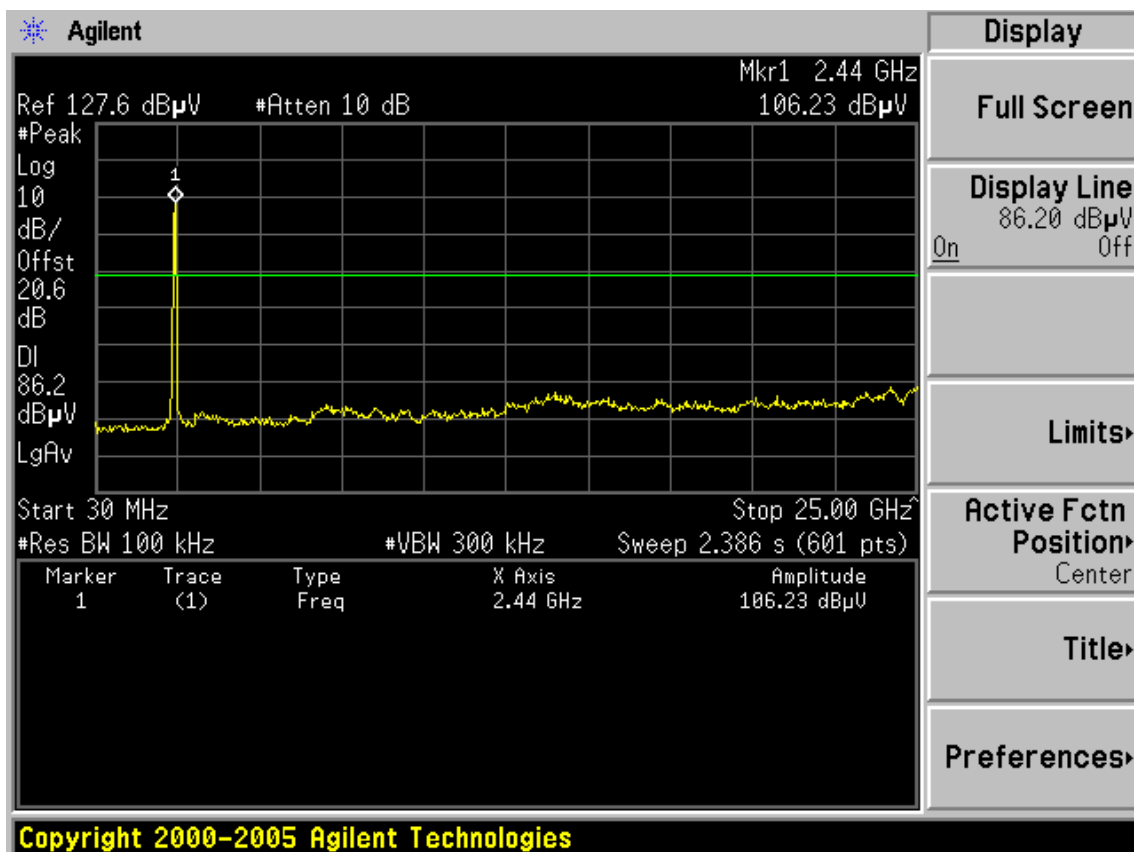
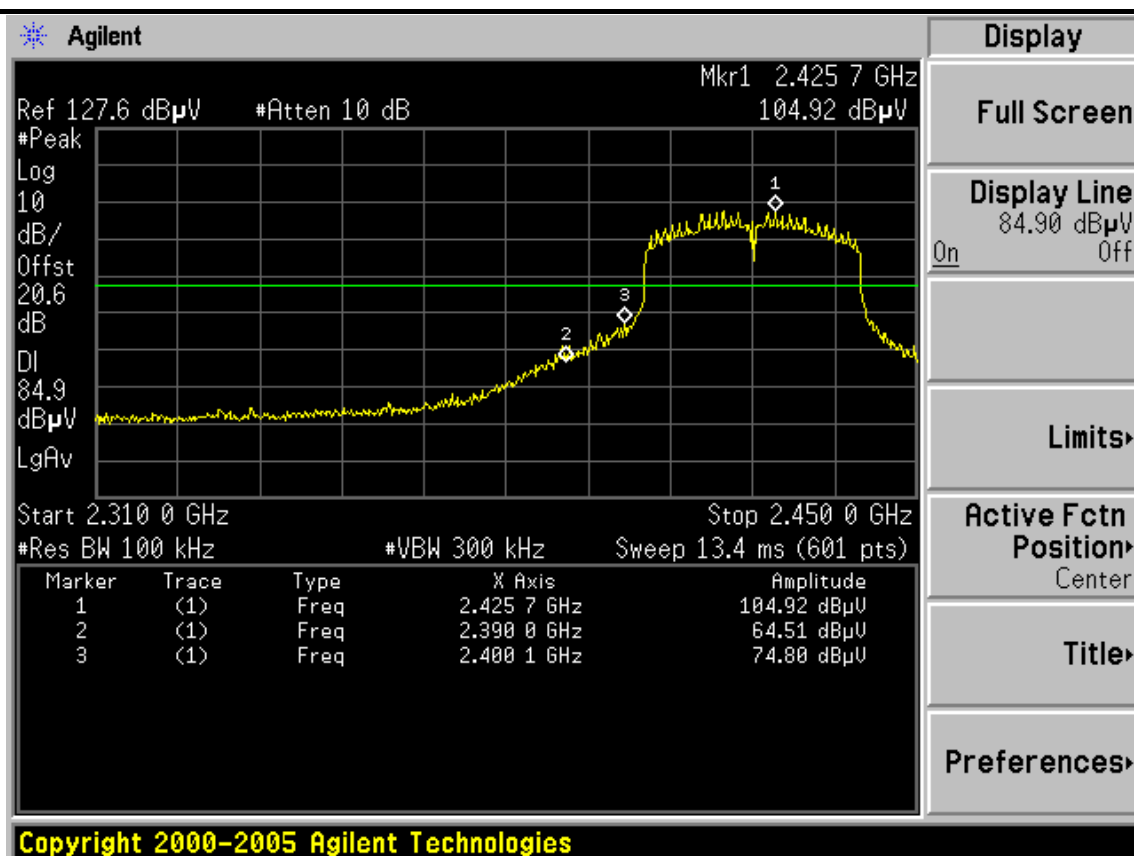


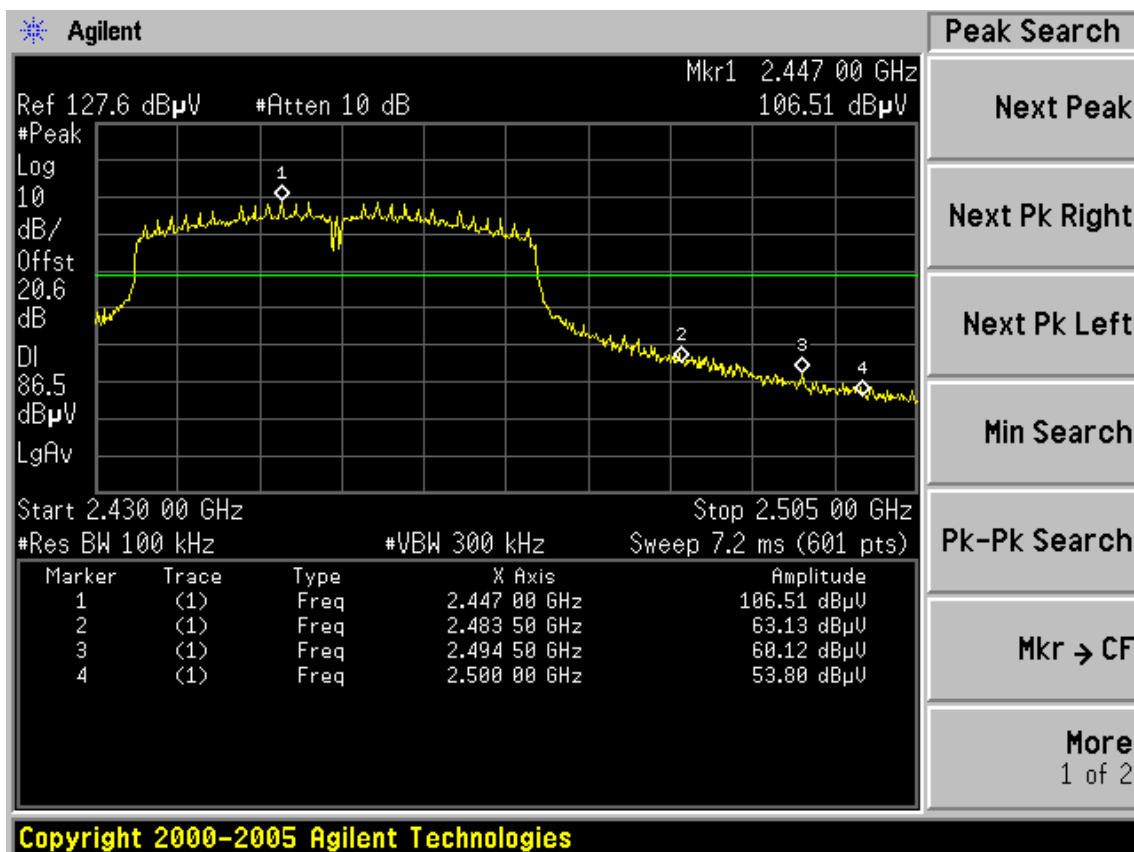
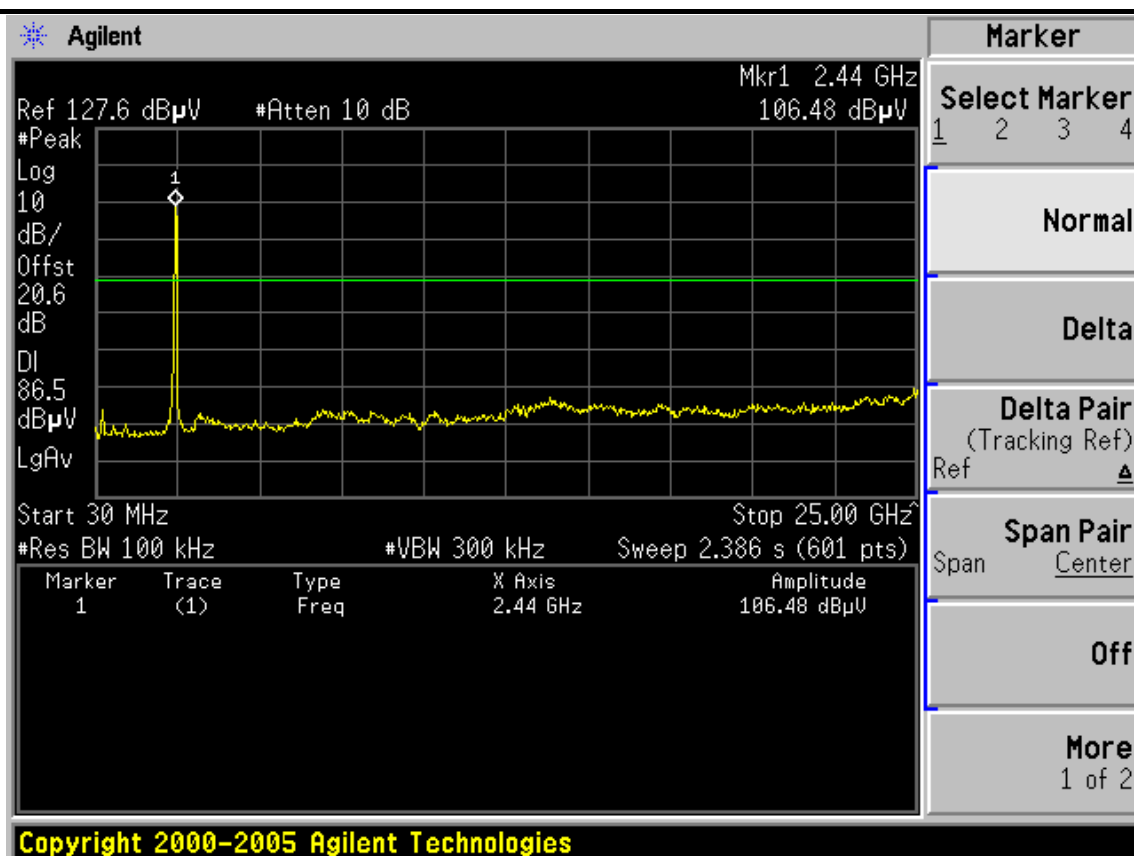




Test Mode: IEEE 802.11n HT40 TX







6. BAND EDGE COMPLIANCE TEST

6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08,10	1 Year
2.	Horn Antenna	EMCO	3115	9607-4877	Nov.25, 09	1.5 Year
3.	Amplifier	Agilent	8449B	3008A02495	May.08, 10	1 Year
4.	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	May.08,10	1 Year
5.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08,10	1 Year
6.	RF Cable	Hubersuhner	SUCOFLEX102	28610/2	May.08,10	1 Year

6.2. Limit

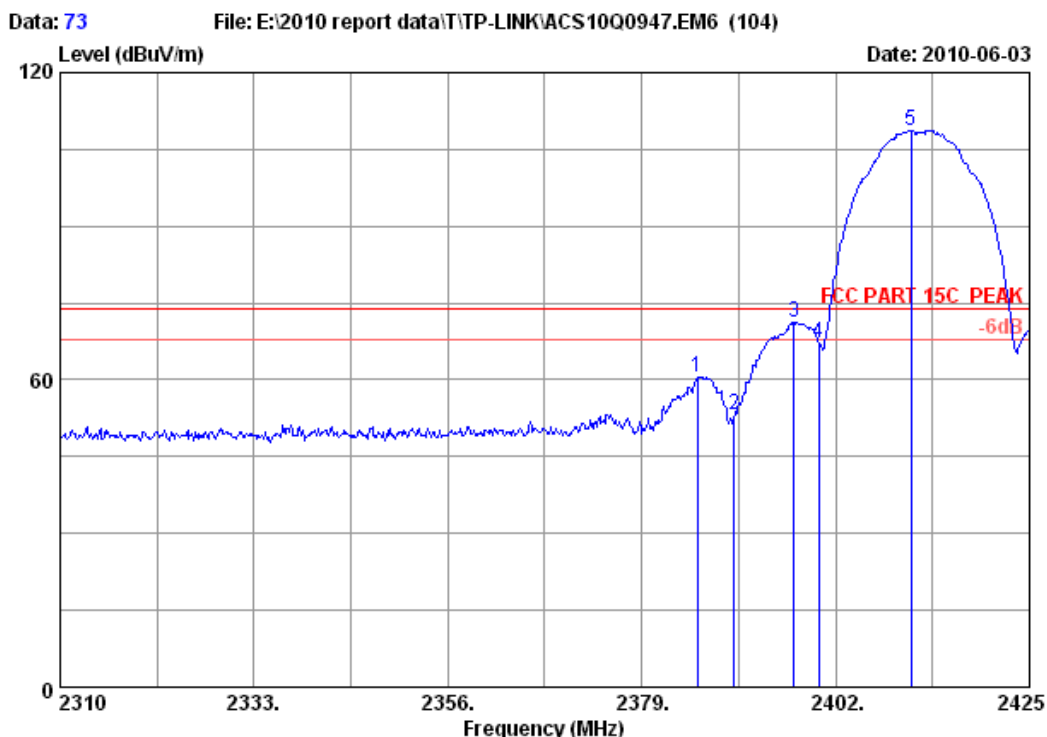
All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental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

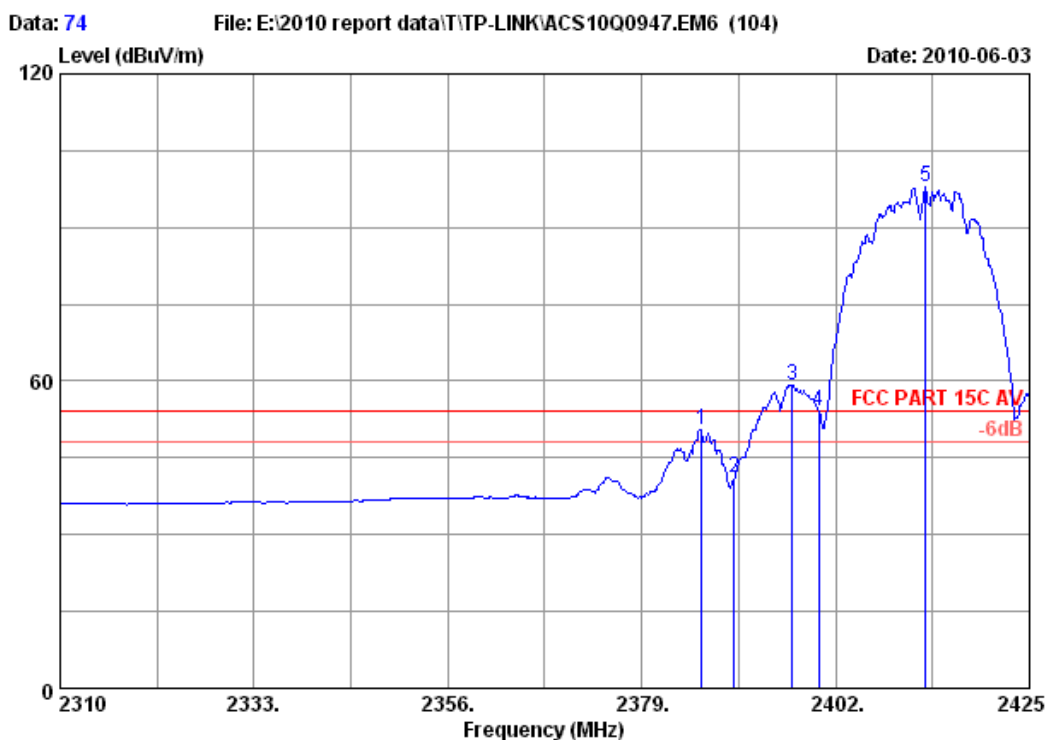


Site no. : 10m Chamber Data no. : 73
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TL-WN822N

	Ant.	Cable	Amp.		Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 2385.555	29.44	8.67	36.09	58.55	60.57	74.00	13.43	Peak	
2 2390.000	29.44	8.67	36.09	50.99	53.01	74.00	20.99	Peak	
3 2397.055	29.44	8.72	36.09	69.14	71.21	74.00	2.79	Peak	
4 2400.000	29.44	8.72	36.09	65.05	67.12	74.00	6.88	Peak	
5 2410.970	29.45	8.72	35.95	106.58	108.80	74.00	-34.80	Peak	

Remarks:

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

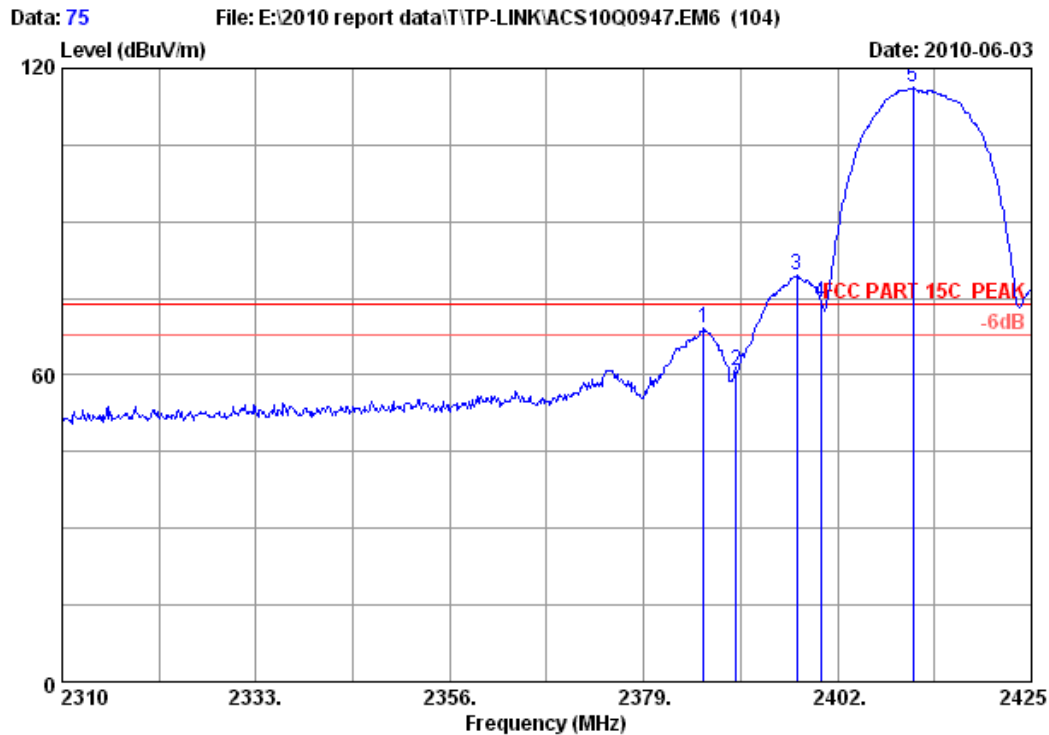


Site no. : 10m Chamber Data no. : 74
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TL-WN822N

		Ant.	Cable	Amp.		Emission			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2386.130	29.44	8.67	36.09	48.60	50.62	54.00	3.38	Average
2	2390.000	29.44	8.67	36.09	39.24	41.26	54.00	12.74	Average
3	2396.825	29.44	8.72	36.09	57.15	59.22	54.00	-5.22	Average
4	2400.000	29.44	8.72	36.09	52.08	54.15	54.00	-0.15	Average
5	2412.695	29.45	8.72	35.95	95.59	97.81	54.00	-43.81	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.

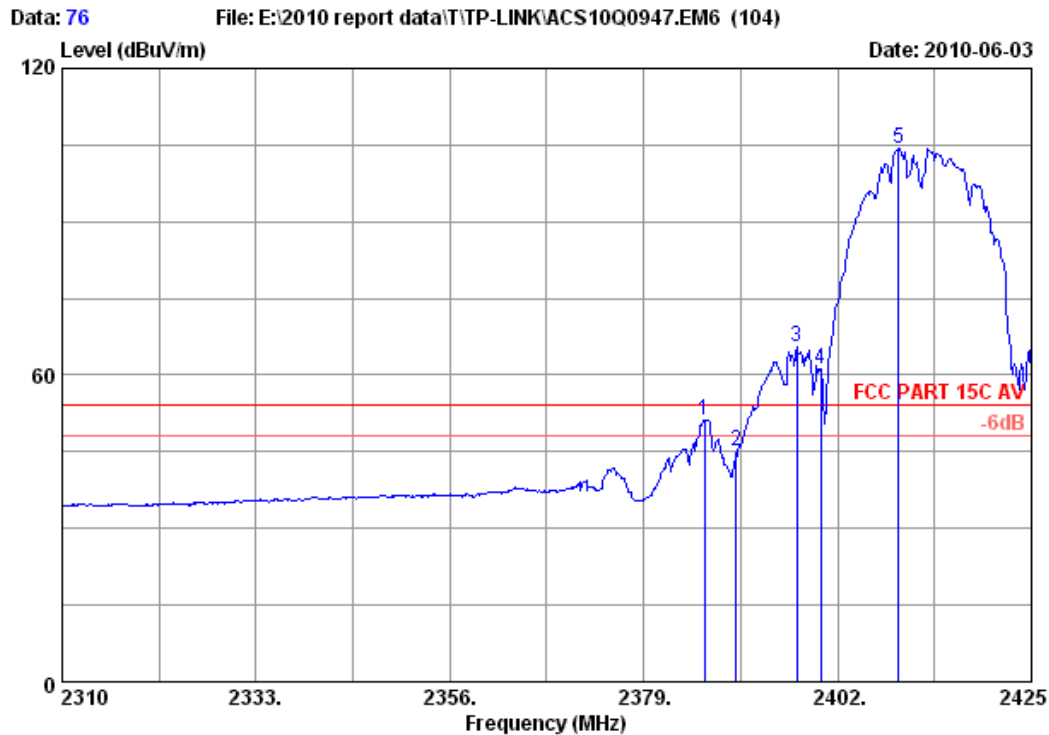


Site no. : 10m Chamber Data no. : 75
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TL-WN822N

	Ant.	Cable	Amp.			Emission			
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	2386.130	29.44	8.67	36.09	67.18	69.20	74.00	4.80	Peak
2	2390.000	29.44	8.67	36.09	58.88	60.90	74.00	13.10	Peak
3	2397.170	29.44	8.72	36.09	77.36	79.43	74.00	-5.43	Peak
4	2400.000	29.44	8.72	36.09	72.07	74.14	74.00	-0.14	Peak
5	2410.970	29.45	8.72	35.95	114.00	116.22	74.00	-42.22	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.

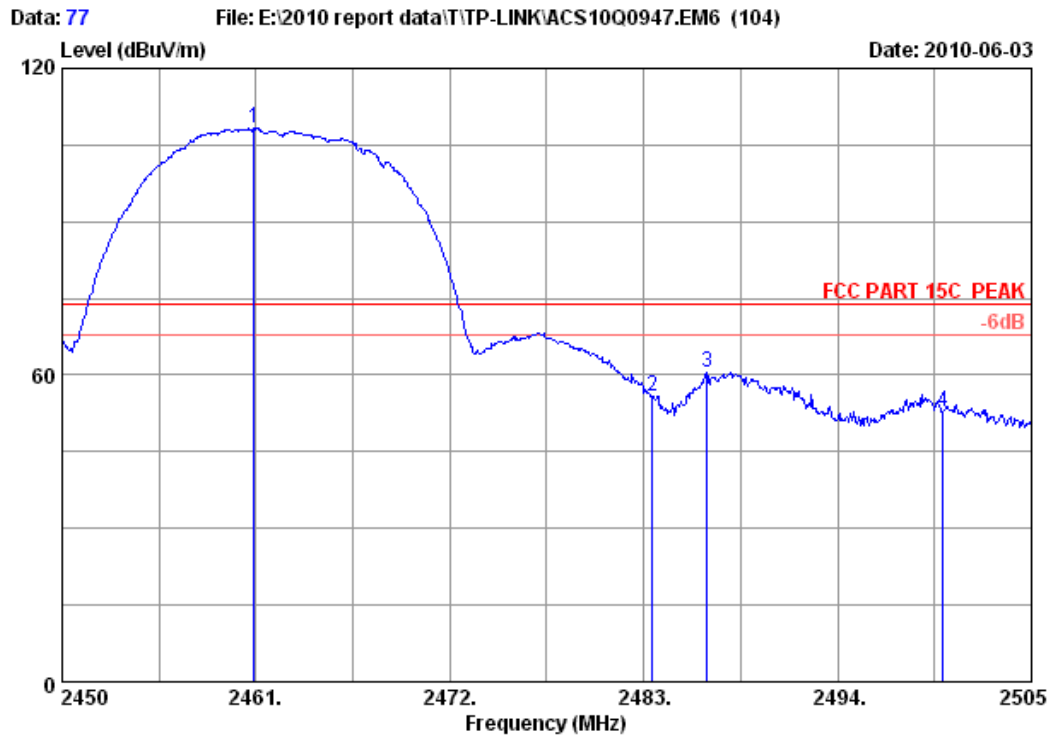


Site no. : 10m Chamber Data no. : 76
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : TL-WN822N

	Ant.	Cable	Amp.		Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	2386.245	29.44	8.67	36.09	49.10	51.12	54.00	2.88	Average
2	2390.000	29.44	8.67	36.09	43.12	45.14	54.00	8.86	Average
3	2397.170	29.44	8.72	36.09	63.31	65.38	54.00	-11.38	Average
4	2400.000	29.44	8.72	36.09	59.13	61.20	54.00	-7.20	Average
5	2409.245	29.45	8.72	35.95	102.21	104.43	54.00	-50.43	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.

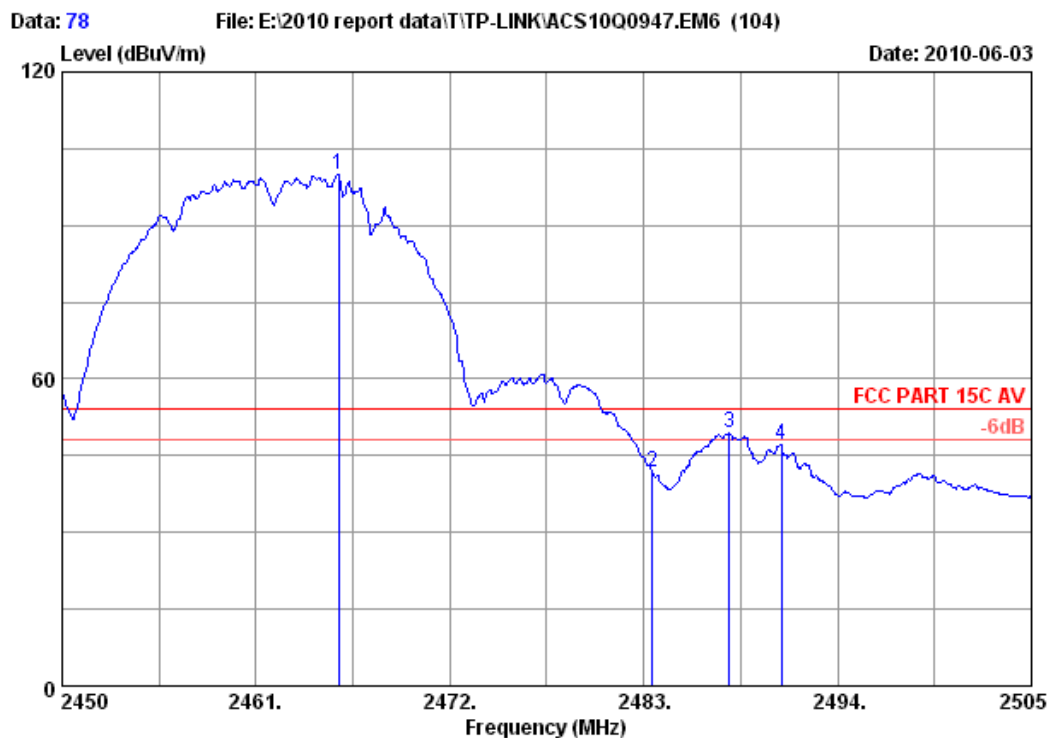


Site no. : 10m Chamber Data no. : 77
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TL-WN822N

	Ant.	Cable	Amp.		Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 2460.890	29.48	8.82	36.02	105.94	108.22	74.00	-34.22	Peak	
2 2483.500	29.49	8.87	35.97	53.30	55.69	74.00	18.31	Peak	
3 2486.575	29.49	8.87	35.97	58.08	60.47	74.00	13.53	Peak	
4 2500.000	29.50	8.92	36.00	50.53	52.95	74.00	21.05	Peak	

Remarks:

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

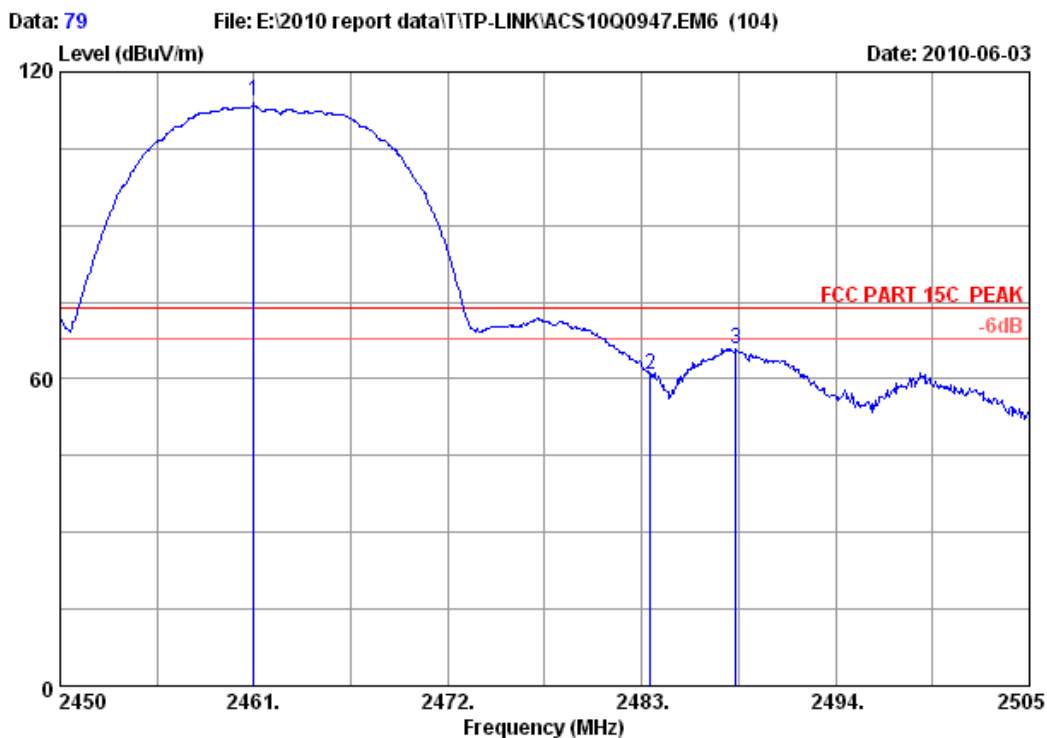


Site no. : 10m Chamber Data no. : 78
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TL-WN822N

	Ant.	Cable	Amp.		Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 2465.675	29.48	8.82	36.02	97.59	99.87	54.00	-45.87	Average	
2 2483.500	29.49	8.87	35.97	39.35	41.74	54.00	12.26	Average	
3 2487.840	29.50	8.87	36.00	46.94	49.31	54.00	4.69	Average	
4 2490.810	29.50	8.87	36.00	44.62	46.99	54.00	7.01	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.

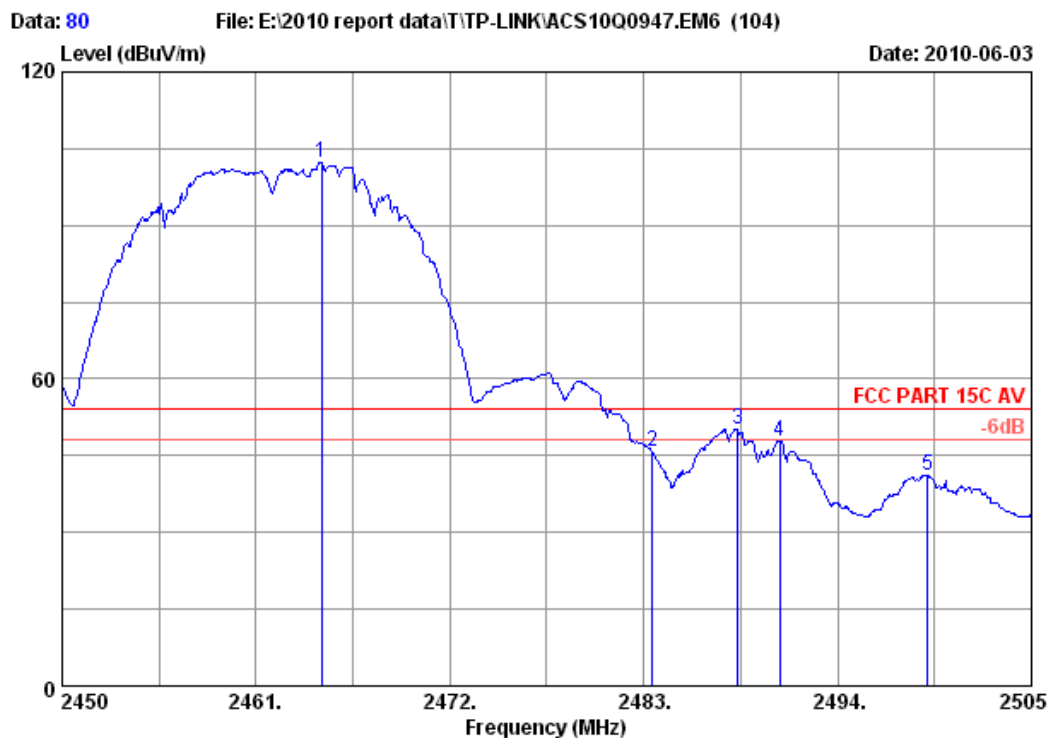


Site no. : 10m Chamber Data no. : 79
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TL-WN822N

	Ant.	Cable	Amp.		Emission				
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)	
1	2461.000	29.48	8.82	36.02	111.96	114.24	74.00	-40.24	Peak
2	2483.500	29.49	8.87	35.97	58.47	60.86	74.00	13.14	Peak
3	2488.335	29.50	8.87	36.00	63.54	65.91	74.00	8.09	Peak

Remarks:

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

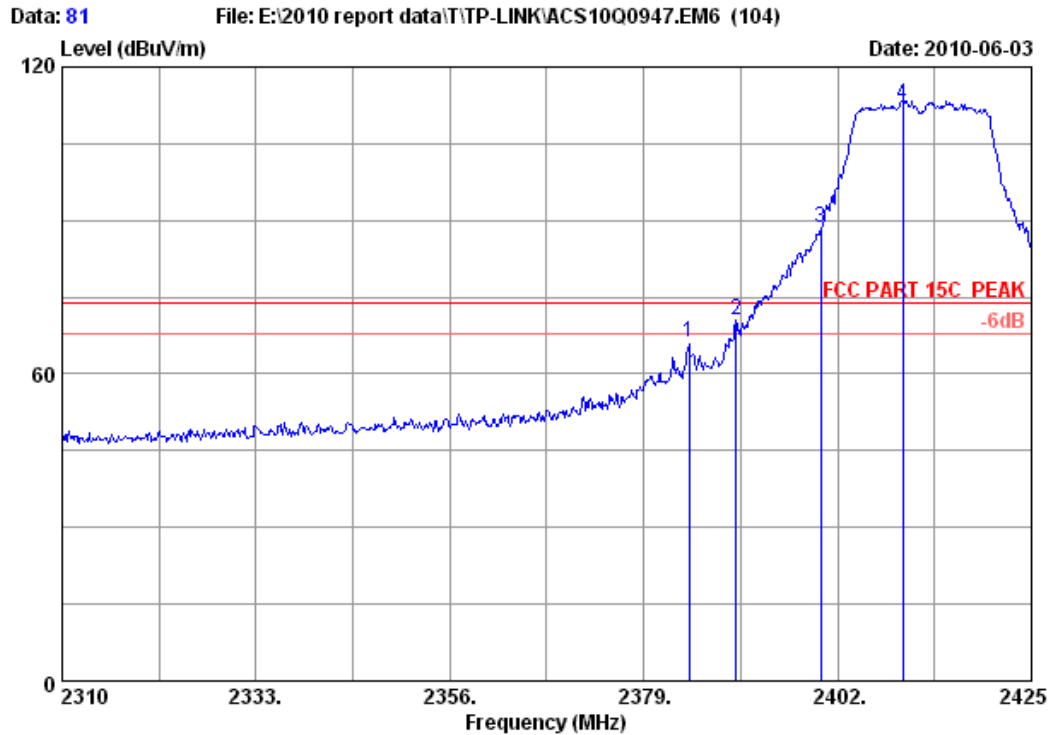


Site no. : 10m Chamber Data no. : 80
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : TL-WN822N

	Ant. Freq. (MHz)	Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2464.740	29.48	8.82	36.02	100.12	102.40	54.00	-48.40	Average
2	2483.500	29.49	8.87	35.97	43.24	45.63	54.00	8.37	Average
3	2488.335	29.50	8.87	36.00	47.83	50.20	54.00	3.80	Average
4	2490.700	29.50	8.87	36.00	45.56	47.93	54.00	6.07	Average
5	2499.115	29.50	8.92	36.00	38.85	41.27	54.00	12.73	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.

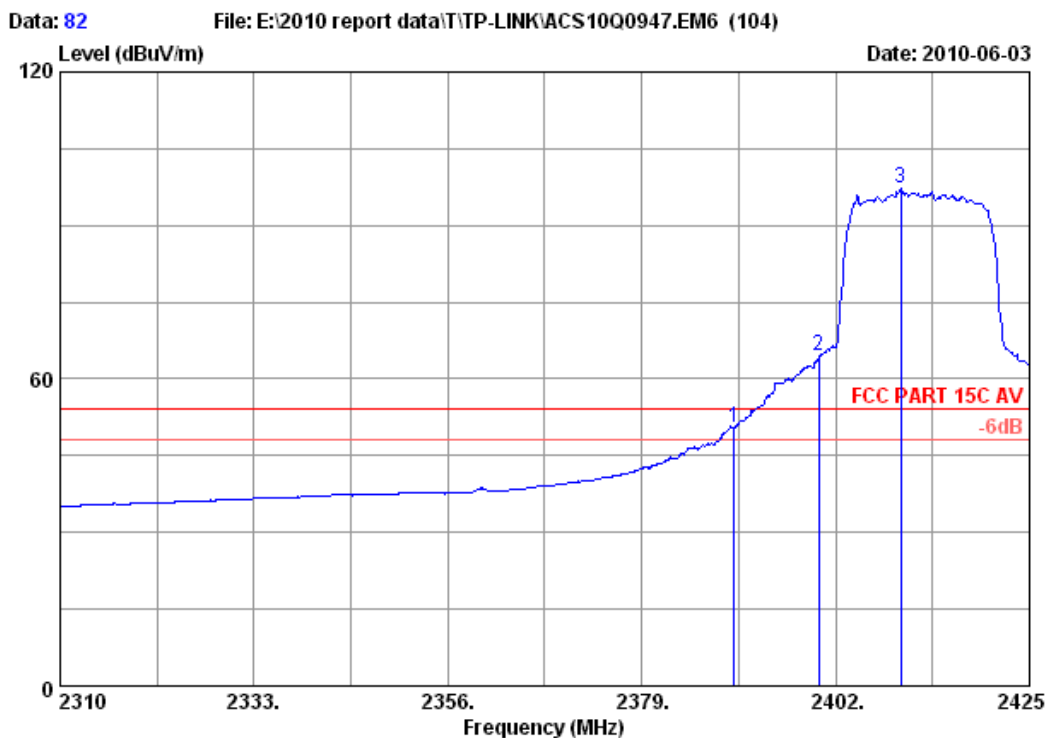


Site no. : 10m Chamber Data no. : 81
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TL-WN822N

	Ant.	Cable	Amp.		Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 2384.405	29.43	8.67	36.00	64.03	66.13	74.00	7.87	Peak	
2 2390.000	29.44	8.67	36.09	68.36	70.38	74.00	3.62	Peak	
3 2400.000	29.44	8.72	36.09	86.35	88.42	74.00	-14.42	Peak	
4 2409.705	29.45	8.72	35.95	110.31	112.53	74.00	-38.53	Peak	

Remarks:

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

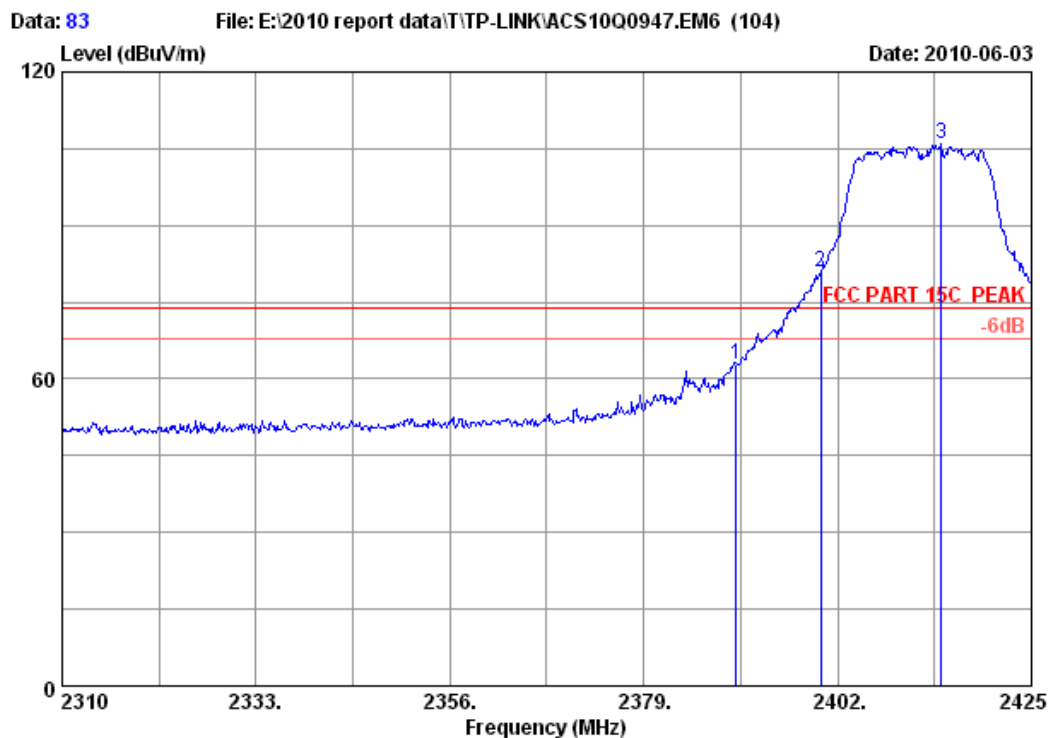


Site no. : 10m Chamber Data no. : 82
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TL-WN822N

	Ant. Freq. (MHz)	Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	29.44	8.67	36.09	48.62	50.64	54.00	3.36	Average
2	2400.000	29.44	8.72	36.09	62.28	64.35	54.00	-10.35	Average
3	2409.705	29.45	8.72	35.95	94.91	97.13	54.00	-43.13	Average

Remarks:

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

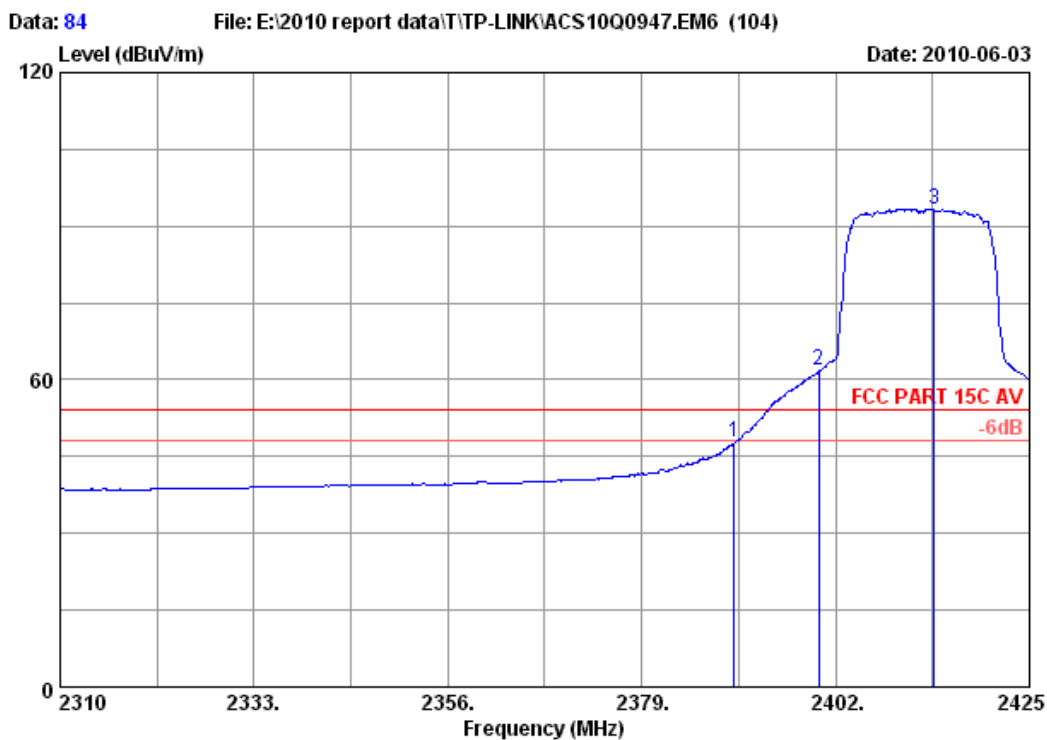


Site no. : 10m Chamber Data no. : 83
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TL-WN822N

	Ant.	Cable	Amp.		Emission				
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)	
1	2390.000	29.44	8.67	36.09	60.94	62.96	74.00	11.04	Peak
2	2400.000	29.44	8.72	36.09	78.96	81.03	74.00	-7.03	Peak
3	2414.305	29.45	8.72	35.95	103.64	105.86	74.00	-31.86	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.

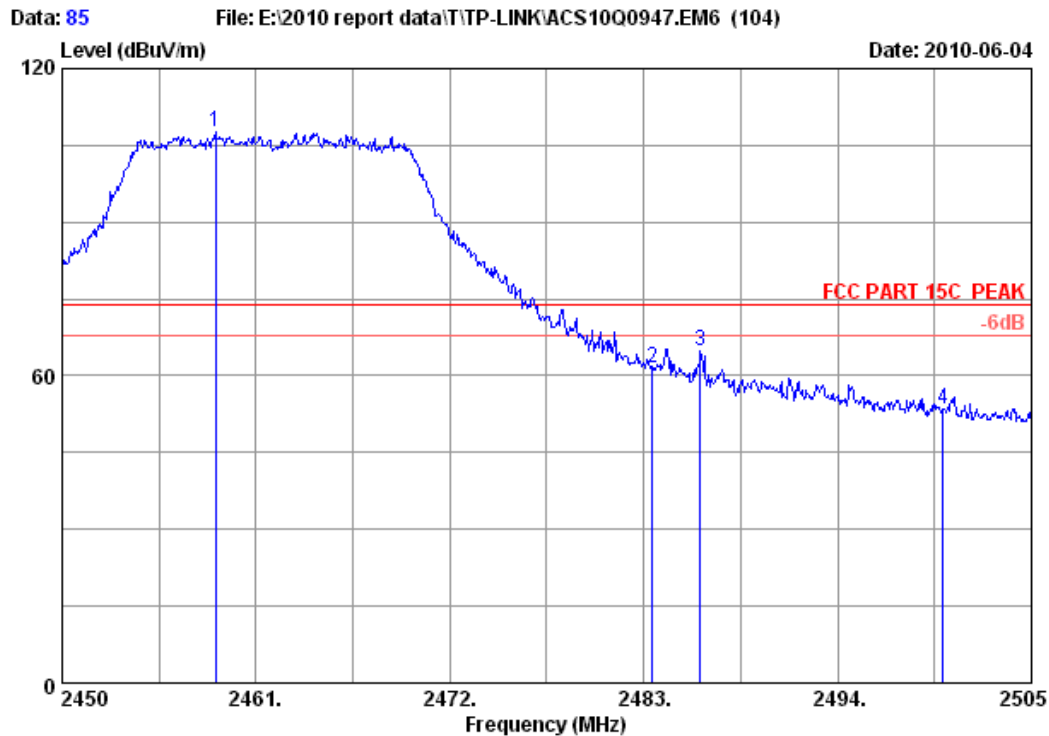


Site no. : 10m Chamber Data no. : 84
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : TL-WN822N

	Ant.	Cable	Amp.		Emission			
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 2390.000	29.44	8.67	36.09	45.72	47.74	54.00	6.26	Average
2 2400.000	29.44	8.72	36.09	59.74	61.81	54.00	-7.81	Average
3 2413.730	29.45	8.72	35.95	91.15	93.37	54.00	-39.37	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.

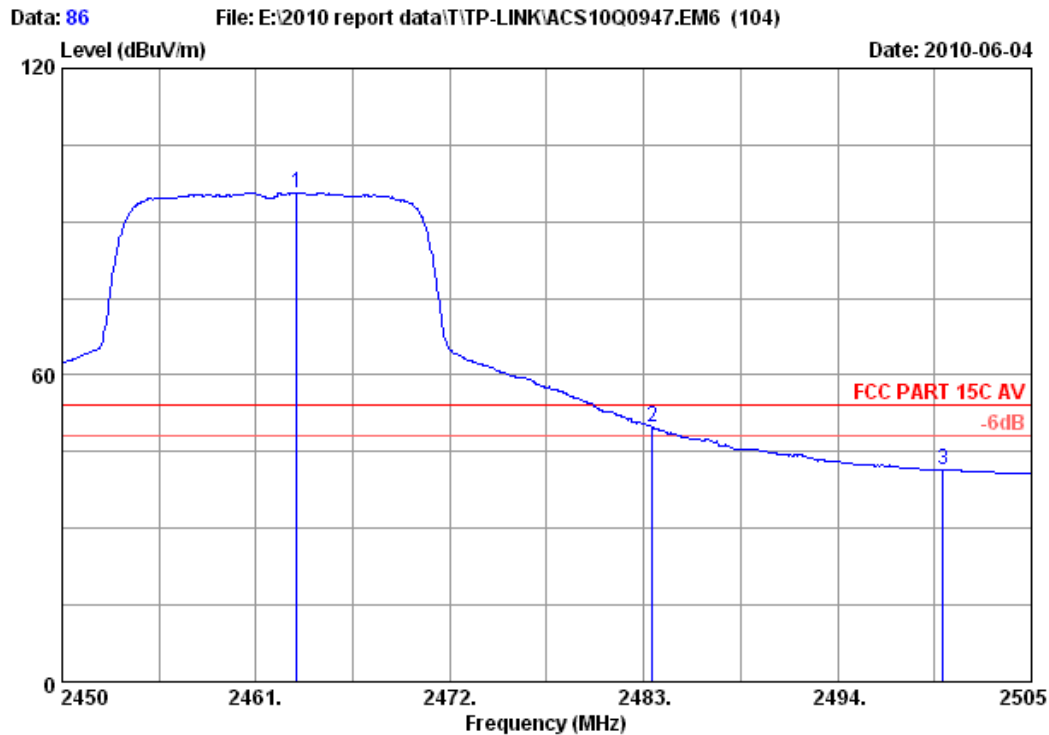


Site no. : 10m Chamber Data no. : 85
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TL-WN822N

	Ant.	Cable	Amp.		Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 2458.690	29.48	8.82	36.02	105.47	107.75	74.00	-33.75	Peak	
2 2483.500	29.49	8.87	35.97	59.20	61.59	74.00	12.41	Peak	
3 2486.190	29.49	8.87	35.97	62.29	64.68	74.00	9.32	Peak	
4 2500.000	29.50	8.92	36.00	50.94	53.36	74.00	20.64	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.

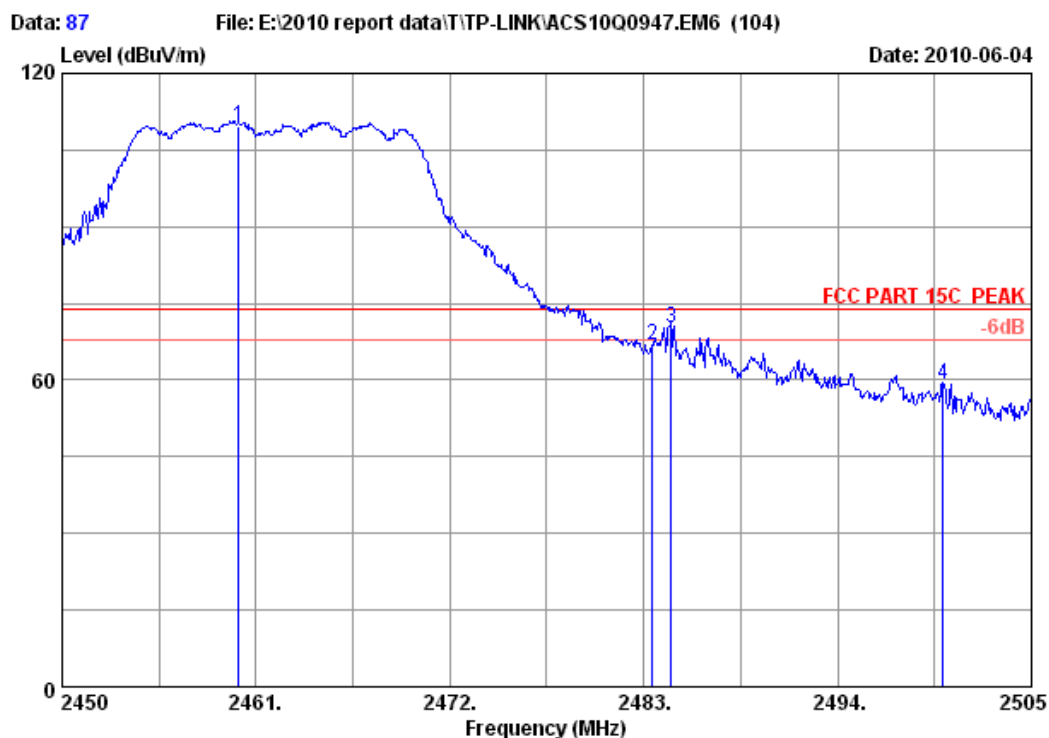


Site no. : 10m Chamber Data no. : 86
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TL-WN822N

	Ant.	Cable	Amp.		Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 2463.310	29.48	8.82	36.02	93.44	95.72	54.00	-41.72	Average	
2 2483.500	29.49	8.87	35.97	47.42	49.81	54.00	4.19	Average	
3 2500.000	29.50	8.92	36.00	39.08	41.50	54.00	12.50	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.

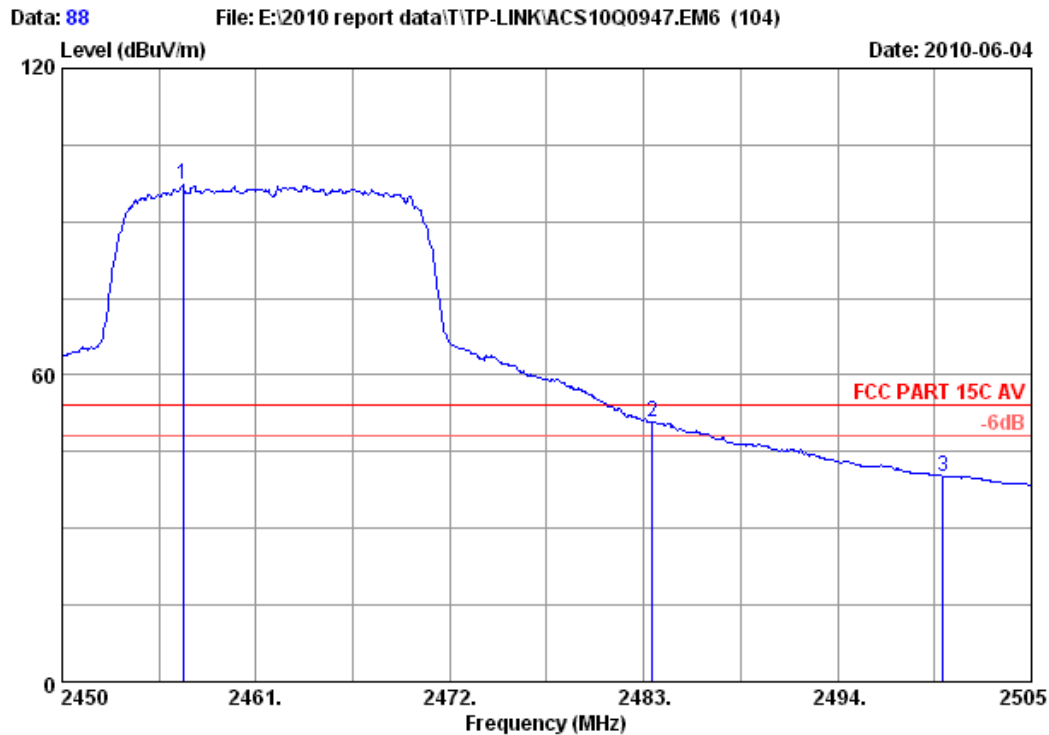


Site no. : 10m Chamber Data no. : 87
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TL-WN822N

		Ant.	Cable	Amp.		Emission			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2460.010	29.48	8.82	36.02	107.49	109.77	74.00	-35.77	Peak
2	2483.500	29.49	8.87	35.97	64.44	66.83	74.00	7.17	Peak
3	2484.540	29.49	8.87	35.97	67.79	70.18	74.00	3.82	Peak
4	2500.000	29.50	8.92	36.00	56.91	59.33	74.00	14.67	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.

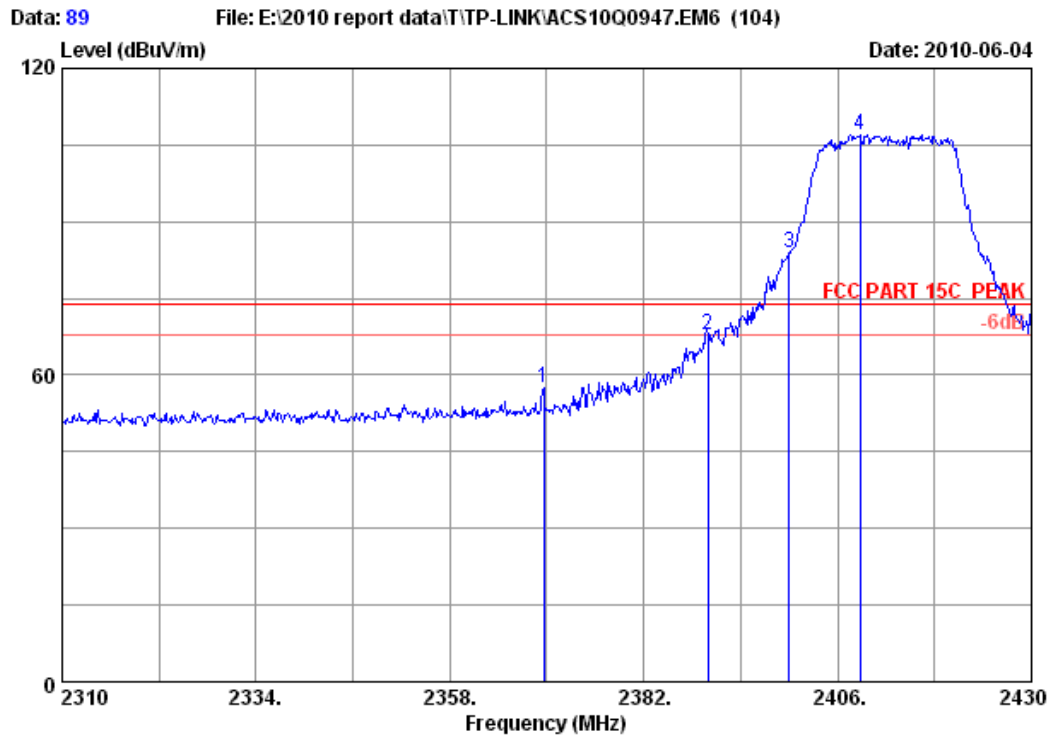


Site no. : 10m Chamber Data no. : 88
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : TL-WN822N

	Ant.	Cable	Amp.		Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 2456.875	29.48	8.82	36.02	94.89	97.17	54.00	-43.17	Average	
2 2483.500	29.49	8.87	35.97	48.35	50.74	54.00	3.26	Average	
3 2500.000	29.50	8.92	36.00	37.75	40.17	54.00	13.83	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.

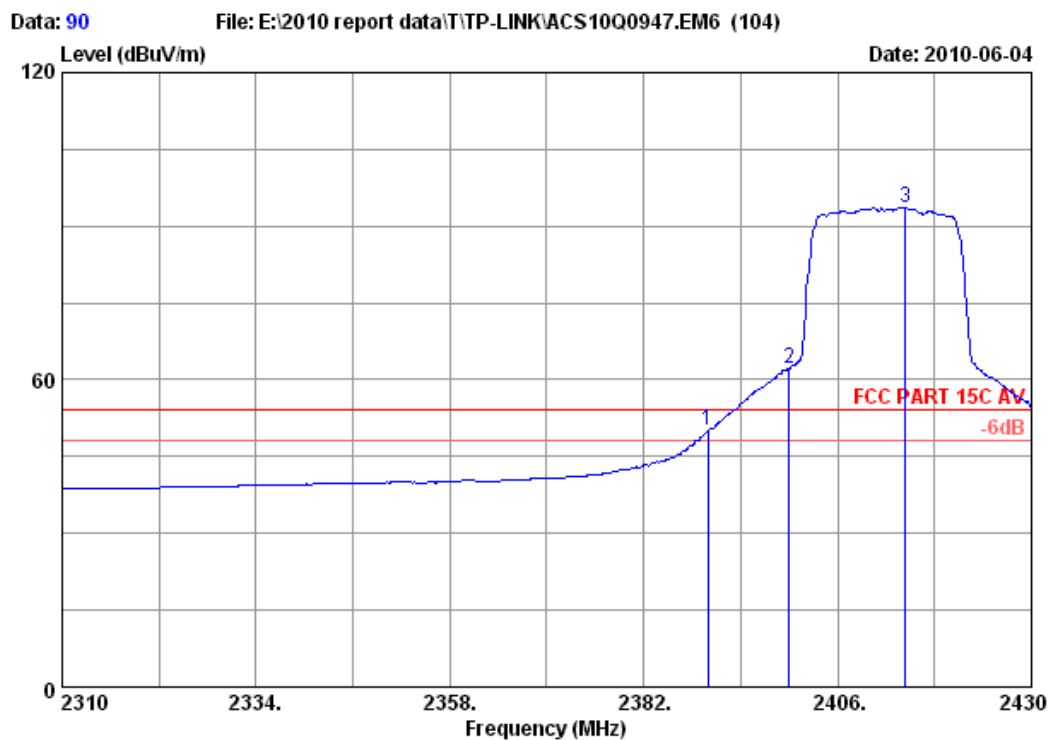


Site no. : 10m Chamber Data no. : 89
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH1 2412MHz Tx
 M/N : TL-WN822N

	Ant.	Cable	Amp.		Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)		
1 2369.640	29.43	8.62	36.00	55.38	57.43	74.00	16.57	Peak	
2 2390.000	29.44	8.67	36.09	65.84	67.86	74.00	6.14	Peak	
3 2400.000	29.44	8.72	36.09	81.76	83.83	74.00	-9.83	Peak	
4 2408.760	29.45	8.72	35.95	104.78	107.00	74.00	-33.00	Peak	

Remarks:

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

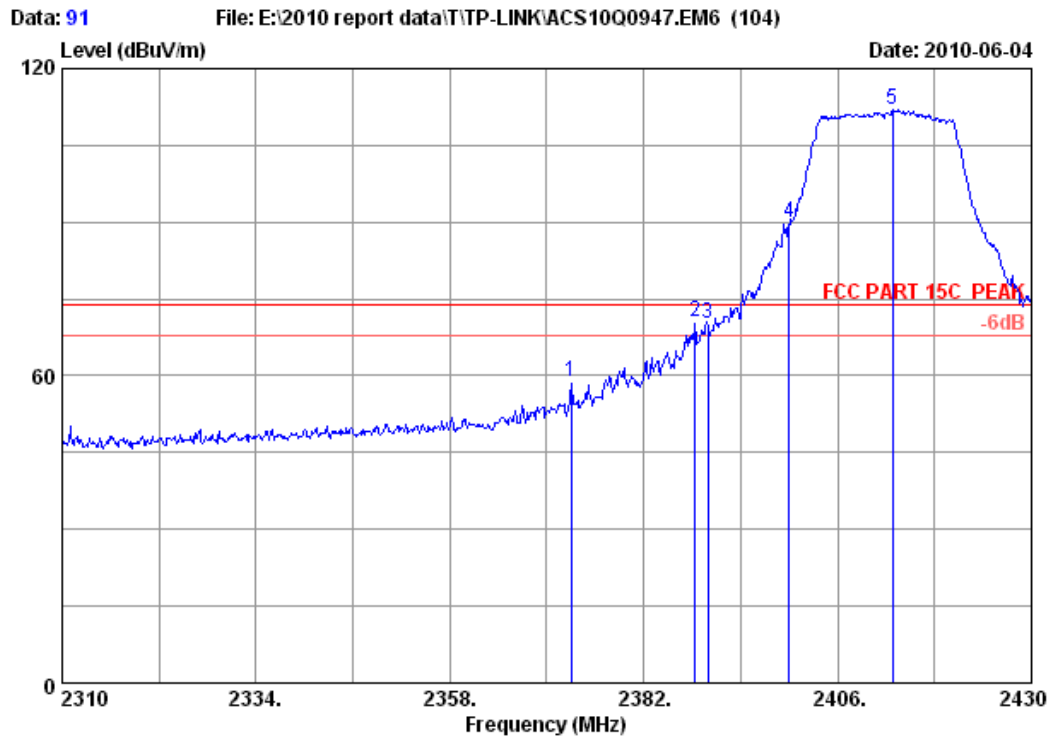


Site no. : 10m Chamber Data no. : 90
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH1 2412MHz Tx
 M/N : TL-WN822N

	Ant.	Cable	Amp.		Emission			
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 2390.000	29.44	8.67	36.09	48.02	50.04	54.00	3.96	Average
2 2400.000	29.44	8.72	36.09	60.13	62.20	54.00	-8.20	Average
3 2414.400	29.45	8.72	35.95	91.39	93.61	54.00	-39.61	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.

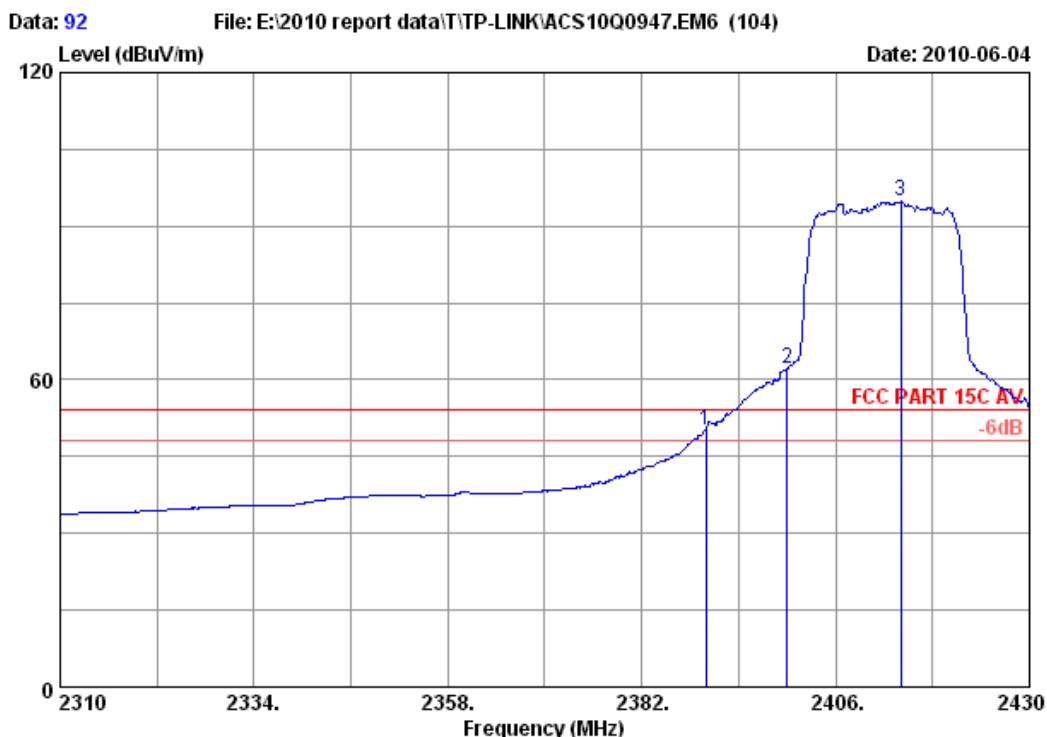


Site no. : 10m Chamber Data no. : 91
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH1 2412MHz Tx
 M/N : TL-WN822N

	Ant.	Cable	Amp.		Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 2373.000	29.43	8.67	36.00	56.87	58.97	74.00	15.03	Peak	
2 2388.360	29.44	8.67	36.09	68.49	70.51	74.00	3.49	Peak	
3 2390.000	29.44	8.67	36.09	68.25	70.27	74.00	3.73	Peak	
4 2400.000	29.44	8.72	36.09	87.82	89.89	74.00	-15.89	Peak	
5 2412.840	29.45	8.72	35.95	109.70	111.92	74.00	-37.92	Peak	

Remarks:

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

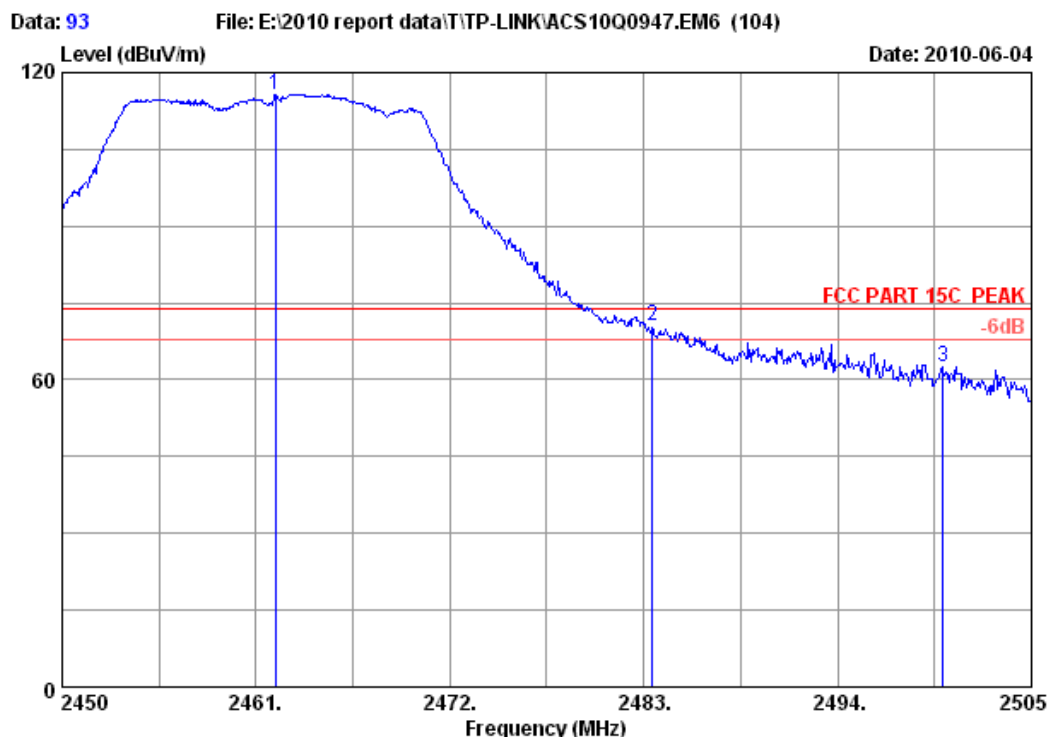


Site no. : 10m Chamber Data no. : 92
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH1 2412MHz Tx
 M/N : TL-WN822N

	Ant.	Cable	Amp.		Emission			
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 2390.000	29.44	8.67	36.09	48.18	50.20	54.00	3.80	Average
2 2400.000	29.44	8.72	36.09	60.06	62.13	54.00	-8.13	Average
3 2414.040	29.45	8.72	35.95	92.61	94.83	54.00	-40.83	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.

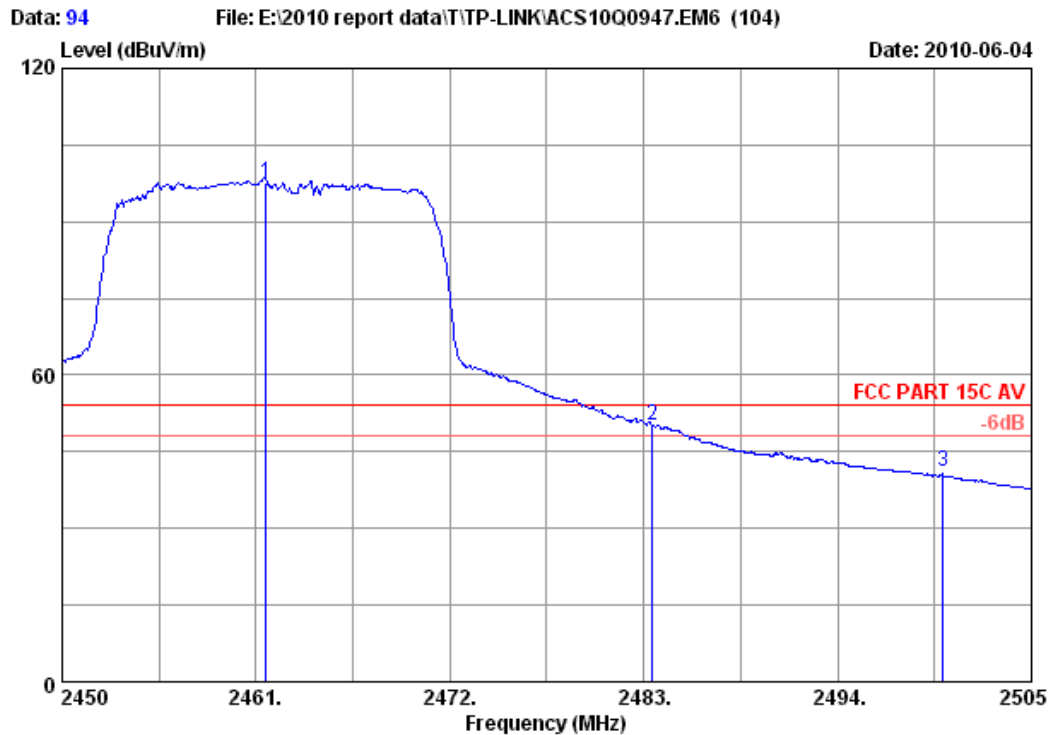


Site no. : 10m Chamber Data no. : 93
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH11 2462MHz Tx
 M/N : TL-WN822N

		Ant.	Cable	Amp.		Emission			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2462.100	29.48	8.82	36.02	113.54	115.82	74.00	-41.82	Peak
2	2483.500	29.49	8.87	35.97	68.21	70.60	74.00	3.40	Peak
3	2500.000	29.50	8.92	36.00	60.25	62.67	74.00	11.33	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.

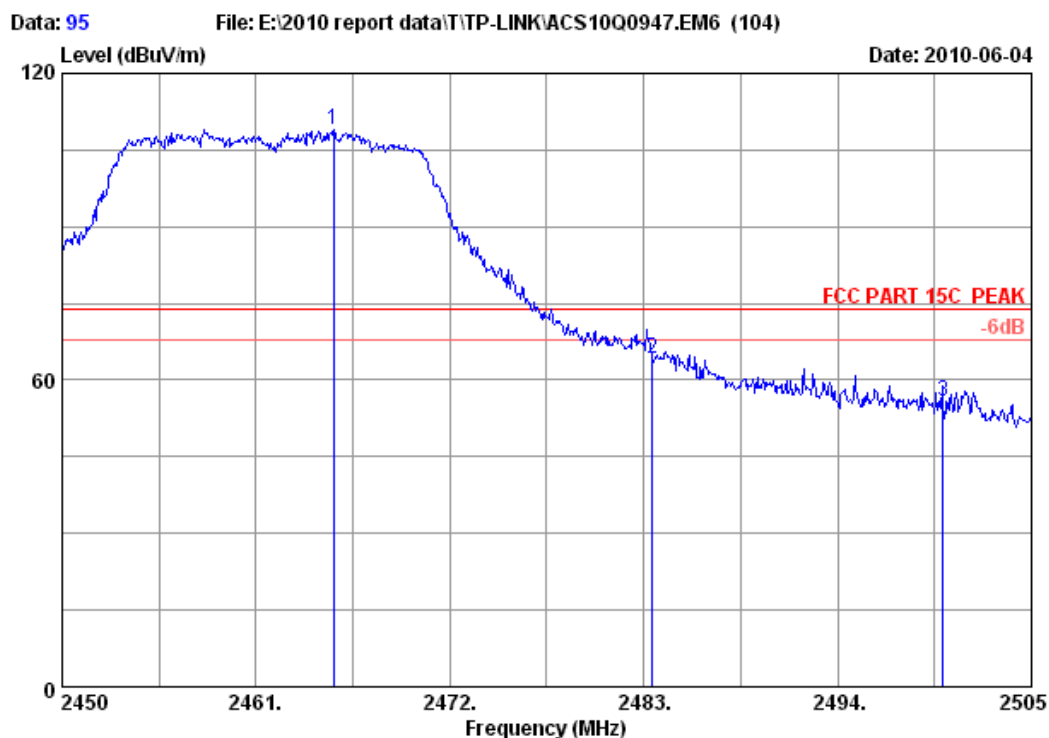


Site no. : 10m Chamber Data no. : 94
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH11 2462MHz Tx
 M/N : TL-WN822N

	Ant.	Cable	Amp.		Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 2461.550	29.48	8.82	36.02	95.28	97.56	54.00	-43.56	Average	
2 2483.500	29.49	8.87	35.97	47.80	50.19	54.00	3.81	Average	
3 2500.000	29.50	8.92	36.00	38.64	41.06	54.00	12.94	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.

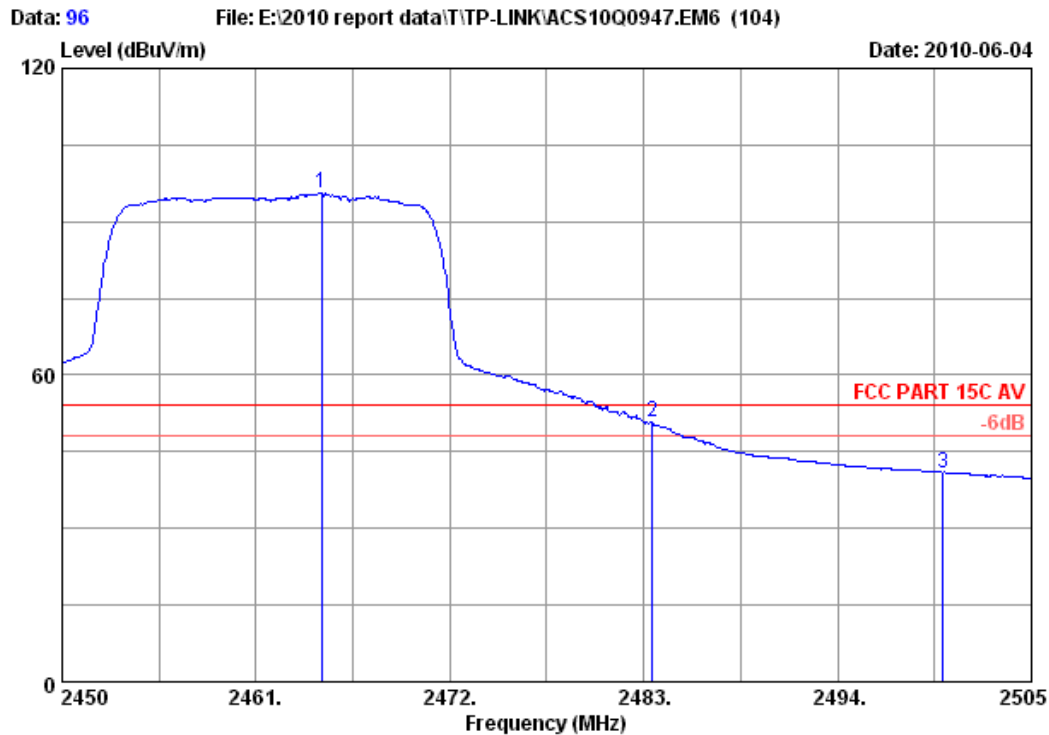


Site no. : 10m Chamber Data no. : 95
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH11 2462MHz Tx
 M/N : TL-WN822N

		Ant.	Cable	Amp.		Emission			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2465.400	29.48	8.82	36.02	106.71	108.99	74.00	-34.99	Peak
2	2483.500	29.49	8.87	35.97	61.69	64.08	74.00	9.92	Peak
3	2500.000	29.50	8.92	36.00	53.31	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.

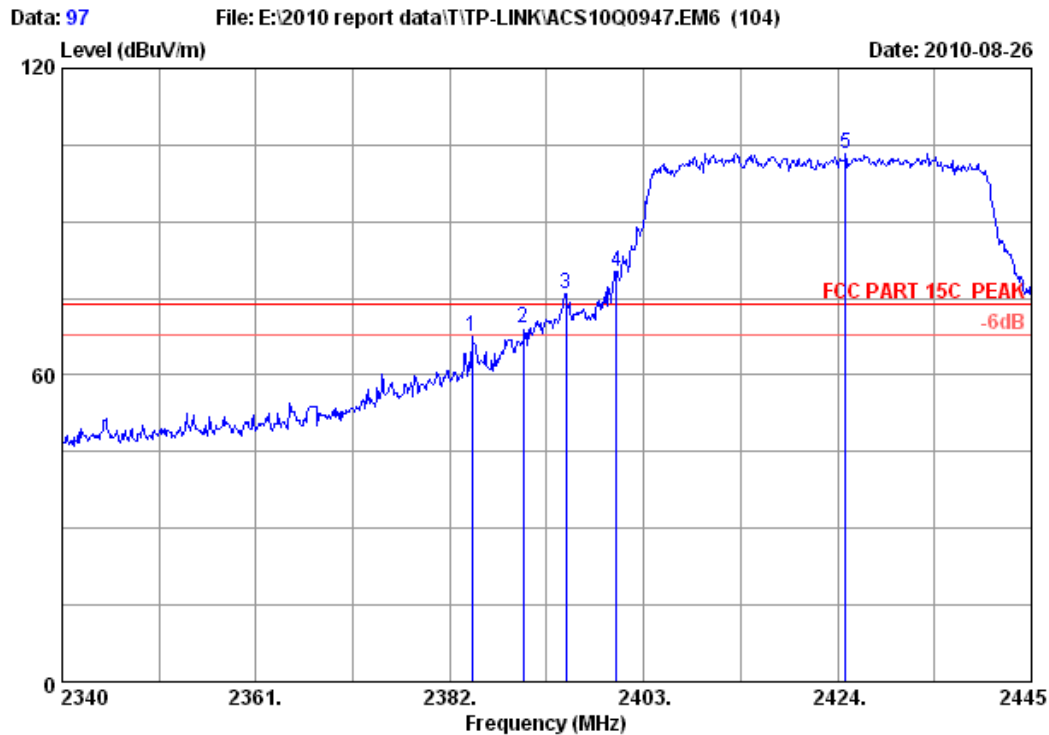


Site no. : 10m Chamber Data no. : 96
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT20 CH11 2462MHz Tx
 M/N : TL-WN822N

	Ant.	Cable	Amp.		Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 2464.740	29.48	8.82	36.02	93.41	95.69	54.00	-41.69	Average	
2 2483.500	29.49	8.87	35.97	48.51	50.90	54.00	3.10	Average	
3 2500.000	29.50	8.92	36.00	38.51	40.93	54.00	13.07	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.

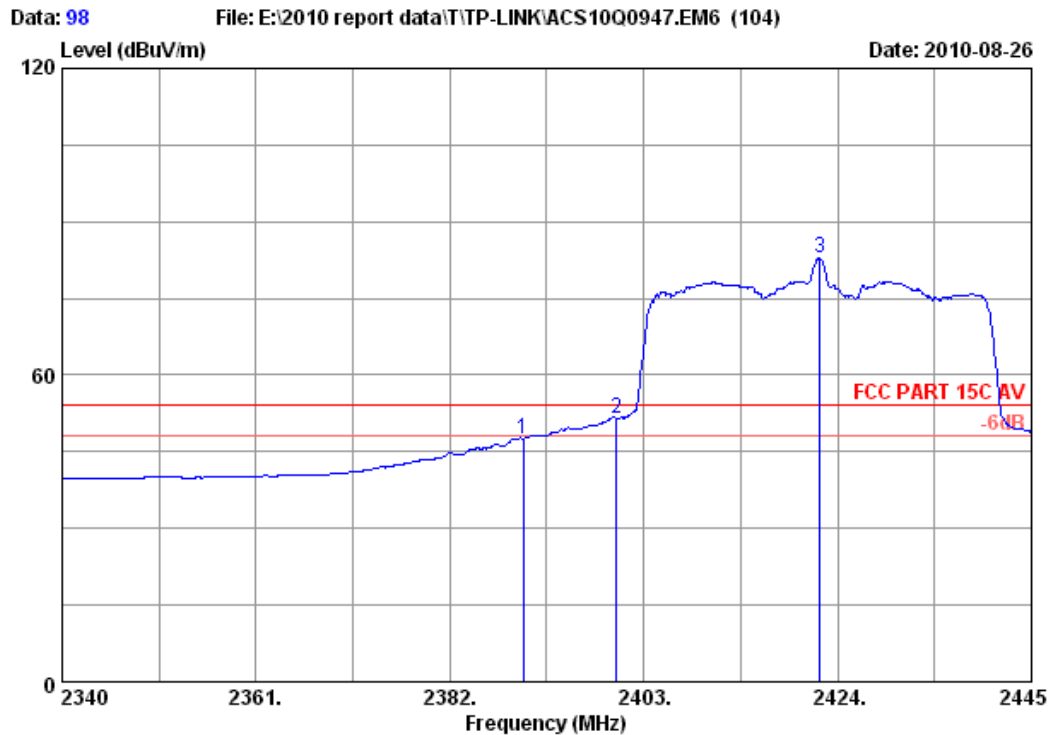


Site no. : 10m Chamber Data no. : 97
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH1 2422MHz Tx
 M/N : TL-WN822N

	Ant.	Cable	Amp.		Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	2384.415	29.43	8.67	36.00	65.38	67.48	74.00	6.52	Peak
2	2390.000	29.44	8.67	36.09	67.10	69.12	74.00	4.88	Peak
3	2394.600	29.44	8.67	36.09	73.94	75.96	74.00	-1.96	Peak
4	2400.000	29.44	8.72	36.09	78.00	80.07	74.00	-6.07	Peak
5	2424.840	29.46	8.77	36.01	101.08	103.30	74.00	-29.30	Peak

Remarks:

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

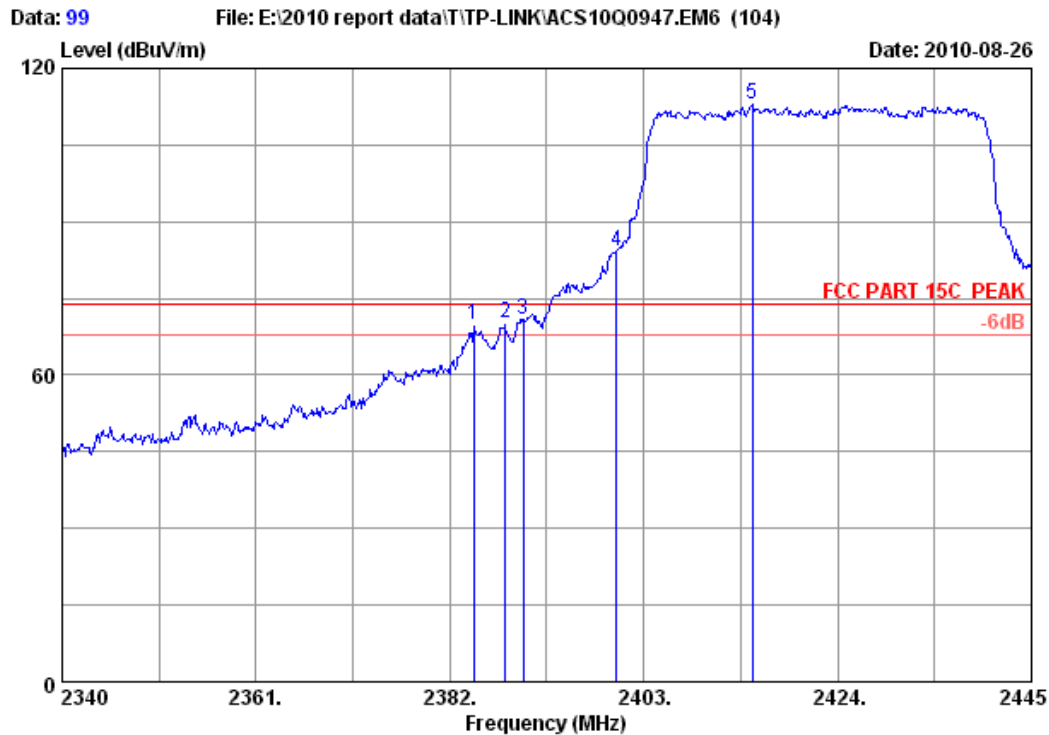


Site no. : 10m Chamber Data no. : 98
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH1 2422MHz Tx
 M/N : TL-WN822N

		Ant.	Cable	Amp.		Emission			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.000	29.44	8.67	36.09	45.48	47.50	54.00	6.50	Average
2	2400.000	29.44	8.72	36.09	49.50	51.57	54.00	2.43	Average
3	2422.110	29.46	8.77	36.01	80.63	82.85	54.00	-28.85	Average

Remarks:

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

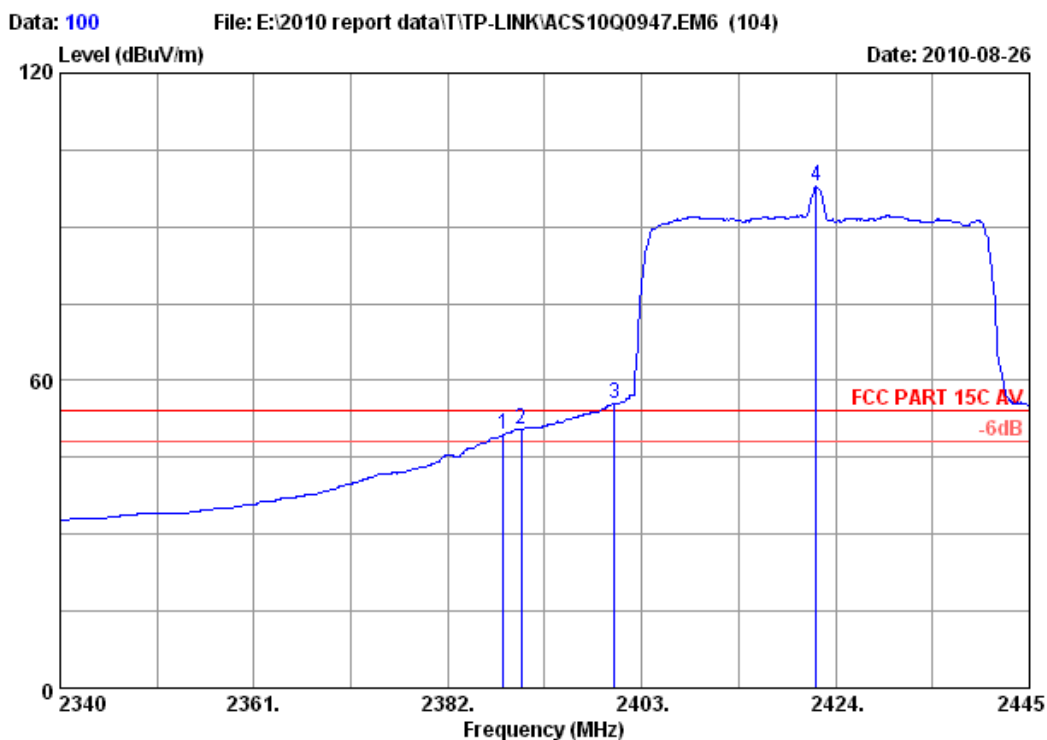


Site no. : 10m Chamber Data no. : 99
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH1 2422MHz Tx
 M/N : TL-WN822N

	Ant.	Cable	Amp.		Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	2384.625	29.43	8.67	36.00	67.65	69.75	74.00	4.25	Peak
2	2388.000	29.44	8.67	36.09	68.10	70.12	74.00	3.88	Peak
3	2390.000	29.44	8.67	36.09	68.72	70.74	74.00	3.26	Peak
4	2400.000	29.44	8.72	36.09	82.04	84.11	74.00	-10.11	Peak
5	2414.760	29.45	8.72	35.95	110.71	112.93	74.00	-38.93	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.

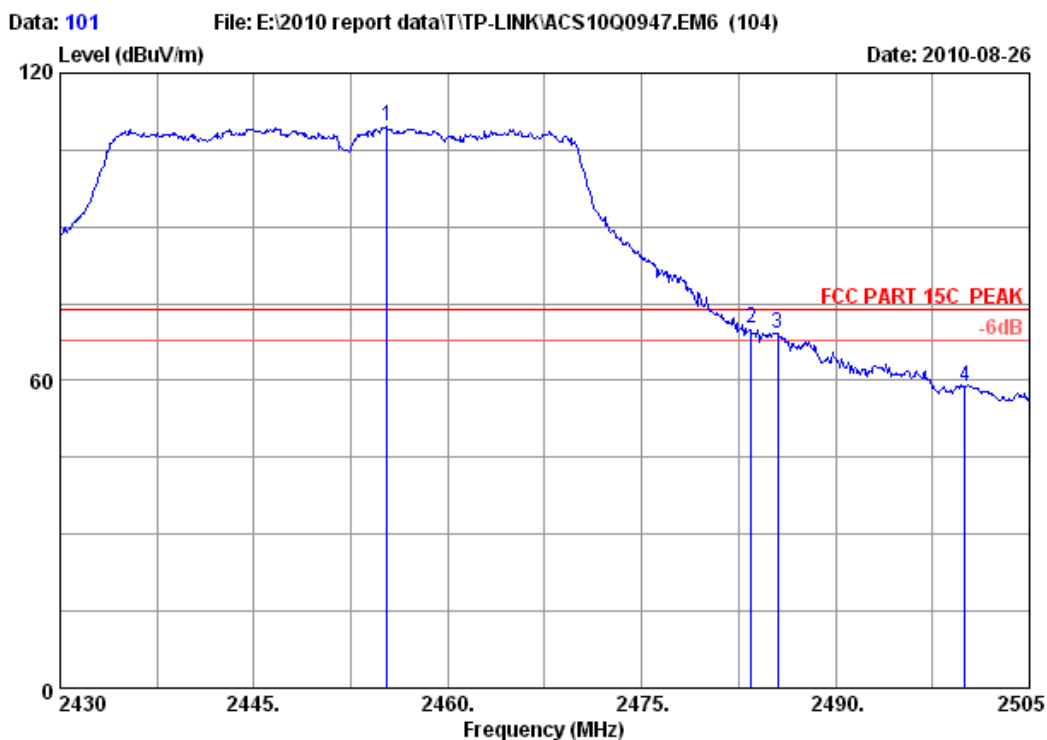


Site no. : 10m Chamber Data no. : 100
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH1 2422MHz Tx
 M/N : TL-WN822N

	Ant.	Cable	Amp.		Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 2388.000	29.44	8.67	36.09	47.37	49.39	54.00	4.61	Average	
2 2390.000	29.44	8.67	36.09	48.48	50.50	54.00	3.50	Average	
3 2400.000	29.44	8.72	36.09	53.30	55.37	54.00	-1.37	Average	
4 2421.900	29.46	8.77	36.01	95.55	97.77	54.00	-43.77	Average	

Remarks:

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

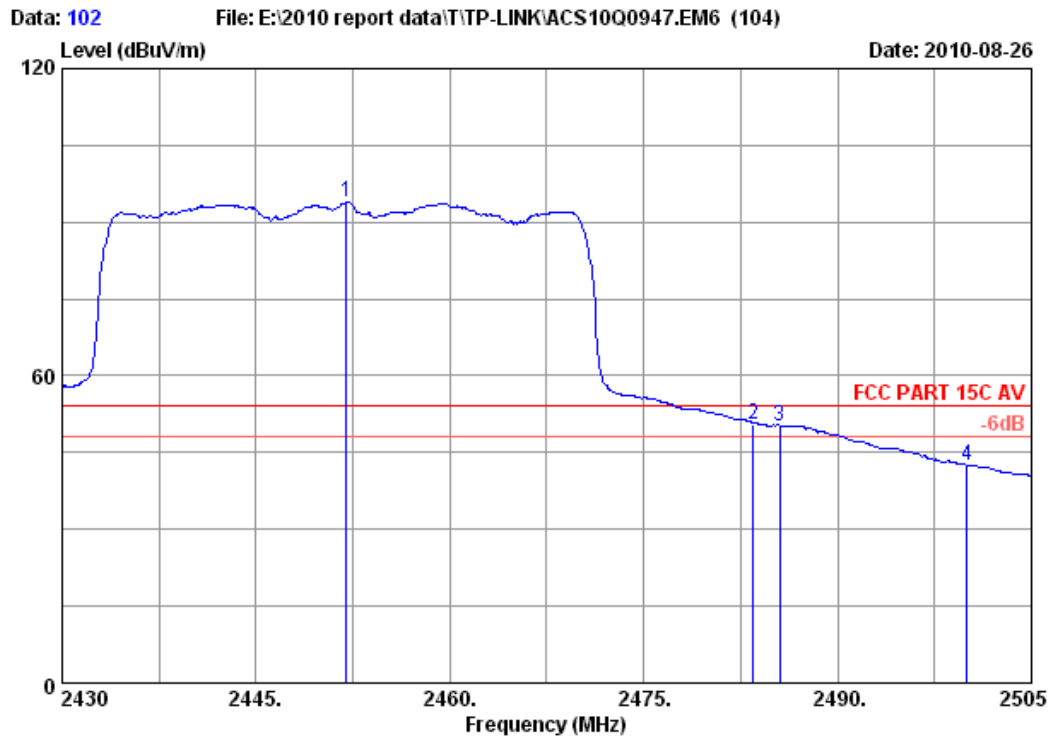


Site no. : 10m Chamber Data no. : 101
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH7 2452MHz Tx
 M/N : TL-WN822N

	Ant.	Cable	Amp.		Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 2455.275	29.48	8.82	36.02	107.50	109.78	74.00	-35.78	Peak	
2 2483.500	29.49	8.87	35.97	67.86	70.25	74.00	3.75	Peak	
3 2485.500	29.49	8.87	35.97	66.67	69.06	74.00	4.94	Peak	
4 2500.000	29.50	8.92	36.00	56.46	58.88	74.00	15.12	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.

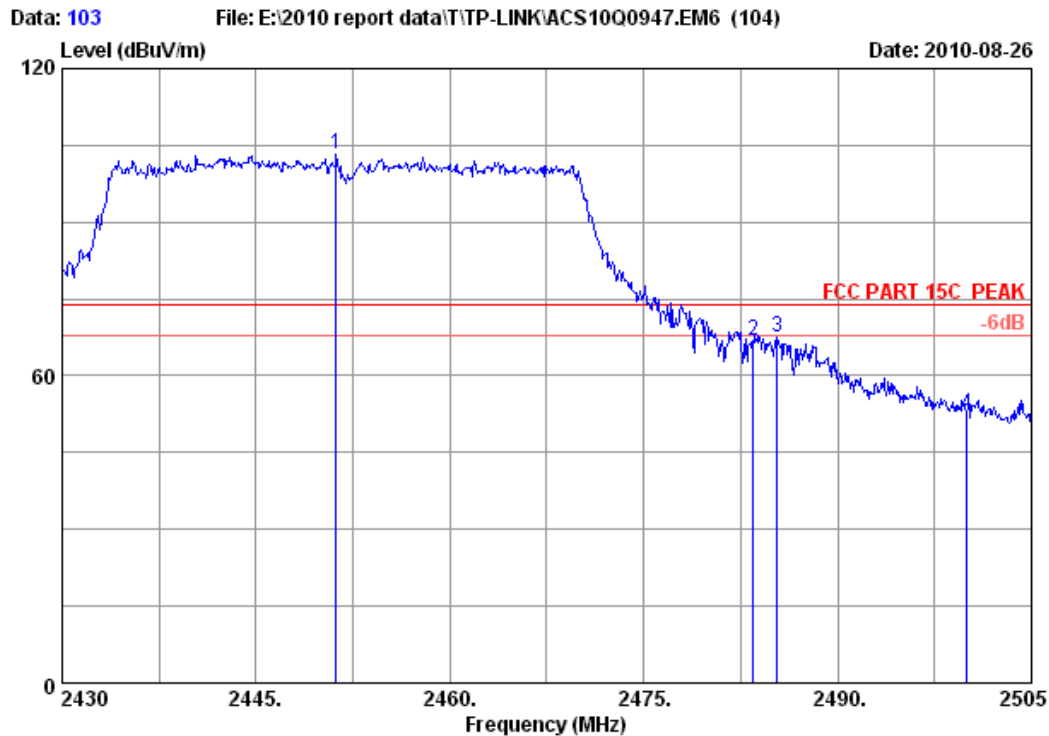


Site no. : 10m Chamber Data no. : 102
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH7 2452MHz Tx
 M/N : TL-WN822N

	Ant.	Cable	Amp.		Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 2451.975	29.47	8.82	36.06	91.79	94.02	54.00	-40.02	Average	
2 2483.500	29.49	8.87	35.97	47.94	50.33	54.00	3.67	Average	
3 2485.500	29.49	8.87	35.97	47.91	50.30	54.00	3.70	Average	
4 2500.000	29.50	8.92	36.00	40.12	42.54	54.00	11.46	Average	

Remarks:

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

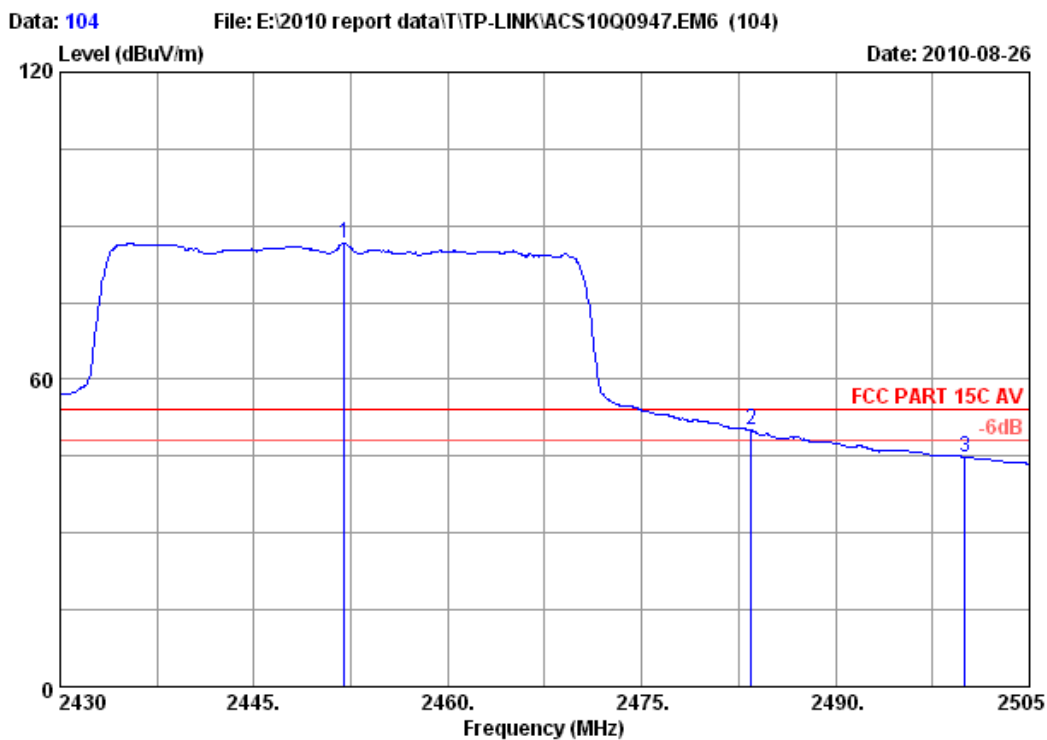


Site no. : 10m Chamber Data no. : 103
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH7 2452MHz Tx
 M/N : TL-WN822N

		Ant.	Cable	Amp.		Emission			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)	
1	2451.225	29.47	8.82	36.06	101.00	103.23	74.00	-29.23	Peak
2	2483.500	29.49	8.87	35.97	64.50	66.89	74.00	7.11	Peak
3	2485.350	29.49	8.87	35.97	65.00	67.39	74.00	6.61	Peak
4	2500.000	29.50	8.92	36.00	50.18	52.60	74.00	21.40	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. : 10m Chamber Data no. : 104
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu
 EUT : 300Mbps High Gain Wireless N USB Adapter
 Power : DC 5V From PC Input AC 120V/60Hz
 Test mode : IEEE802.11n HT40 CH7 2452MHz Tx
 M/N : TL-WN822N

	Ant. Freq. (MHz)	Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2451.975	29.47	8.82	36.06	84.30	86.53	54.00	-32.53	Average
2	2483.500	29.49	8.87	35.97	47.66	50.05	54.00	3.95	Average
3	2500.000	29.50	8.92	36.00	42.42	44.84	54.00	9.16	Average

Remarks:

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

7. 6dB Bandwidth Test

7.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08,10	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08,10	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08,10	1Year

7.2.Limit

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

7.3.Test Procedure

The transmitter output was connected to a spectrum analyzer, The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 300 kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

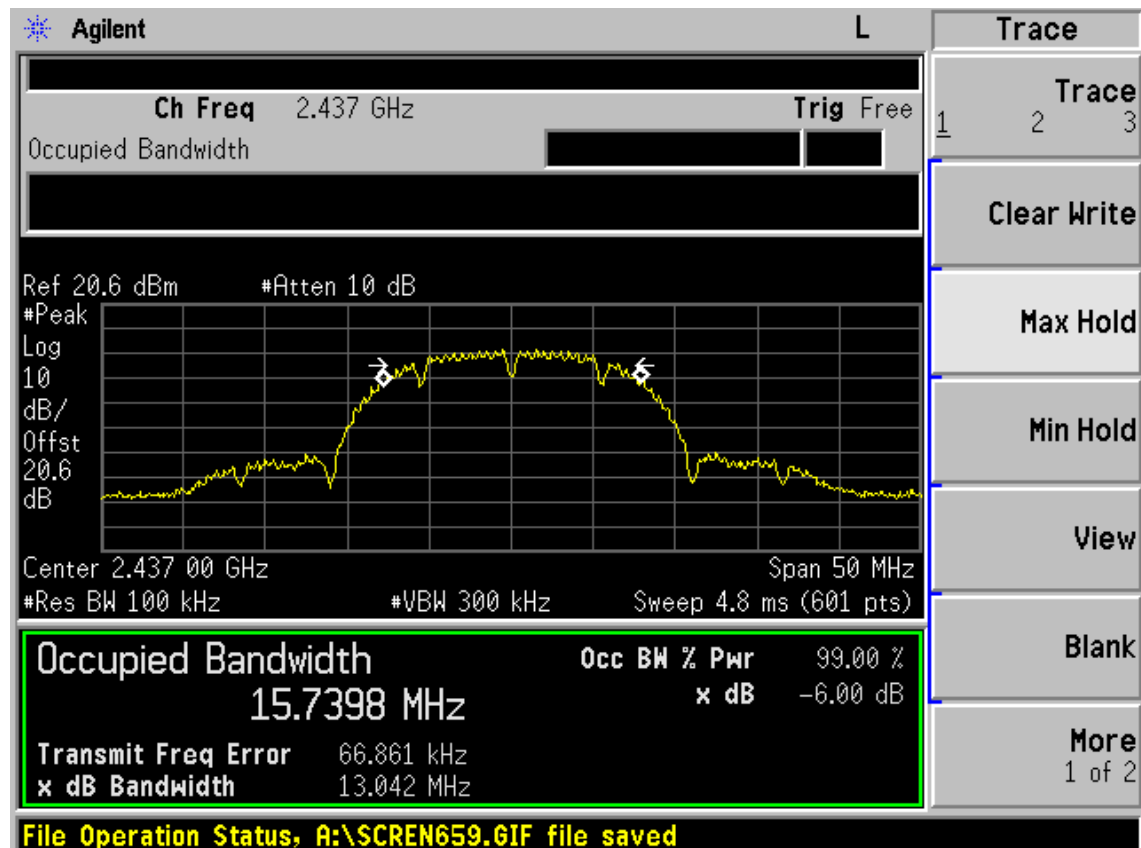
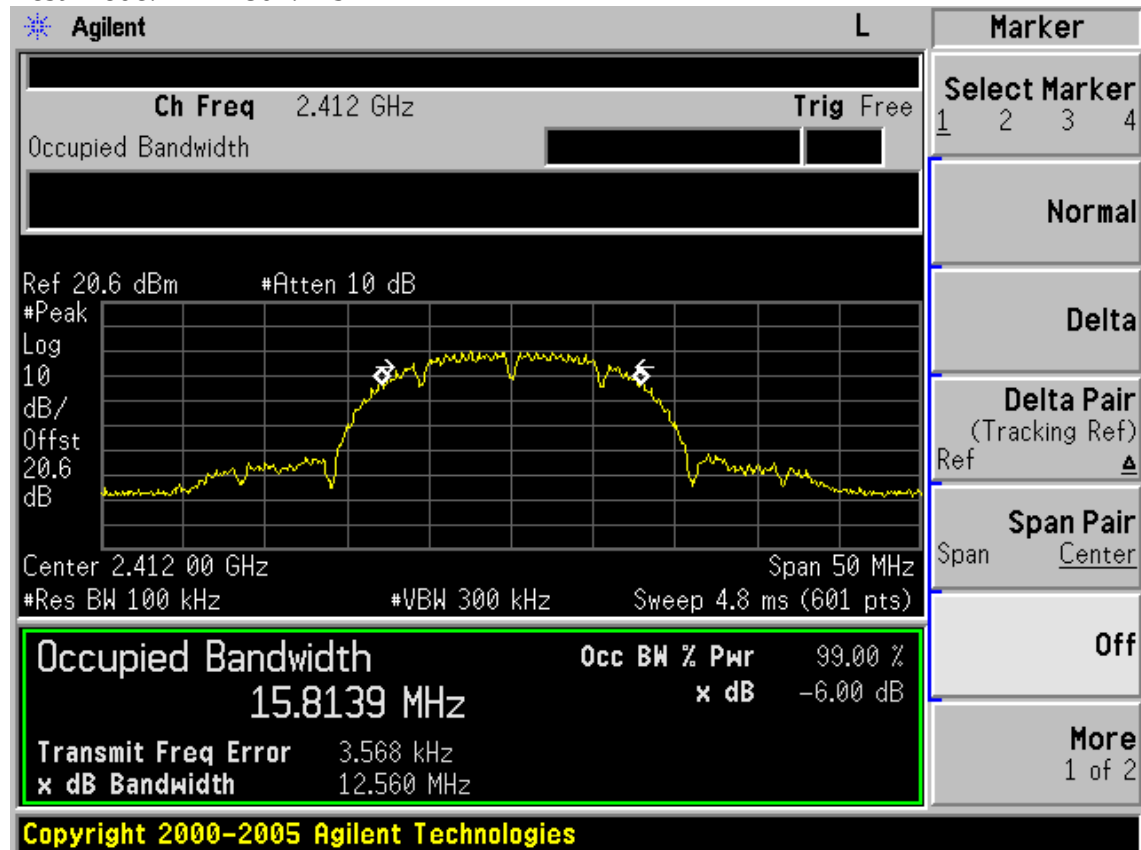
7.4.Test Results

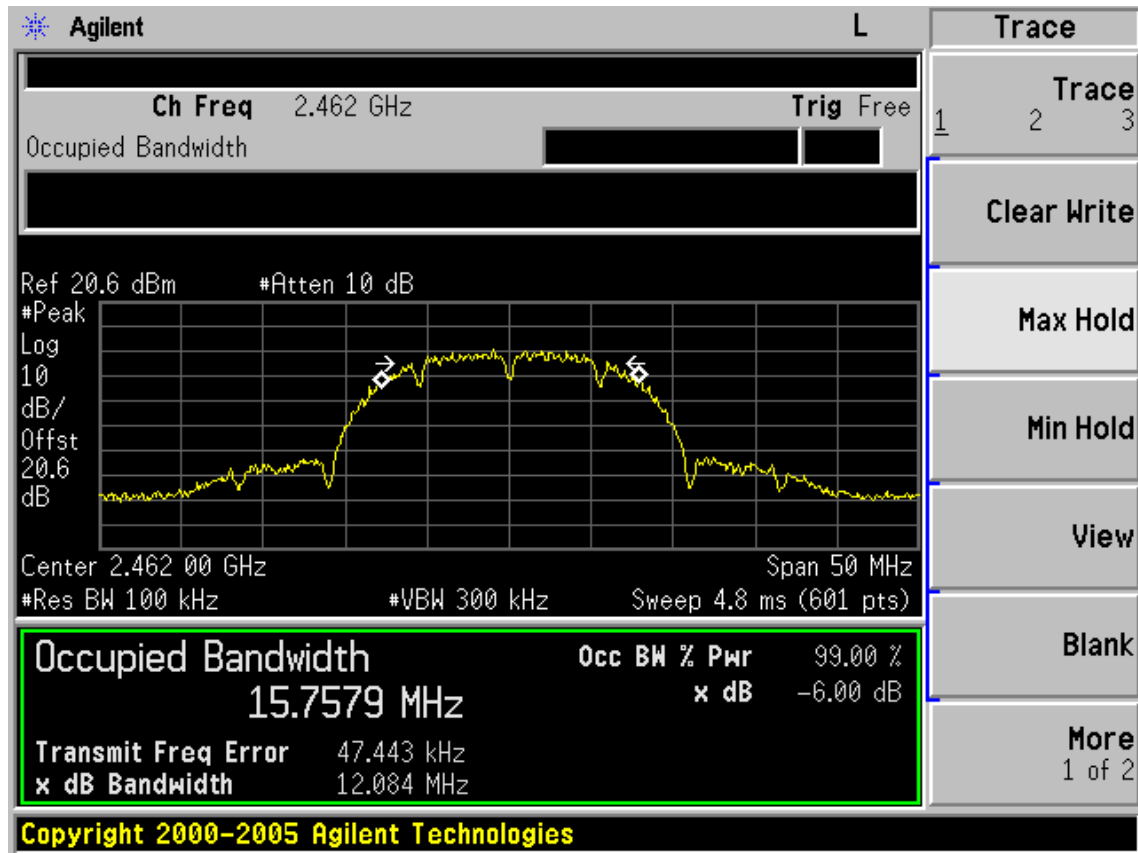
EUT:300Mbps High Gain Wireless N USB Adapter		
M/N:TL-WN822N		
Test date:2010-09-26	Pressure: 100.6kpa	Humidity: 60 %
Tested by:Sunny-lu	Test site: RF Site	Temperature : 25 °C

Cable loss: 0.6 dB		Attenuator loss: 20 dB		Antenna Gain: 2.5 dBi
Test Mode	CH	Result		Limit (KHz)
		Chain0 6dB bandwidth (MHz)	Chain1 6dB bandwidth (MHz)	
11b	CH1	12.560	12.134	>500
	CH6	13.042	12.113	>500
	CH11	12.084	12.607	>500
11g	CH1	16.520	16.605	>500
	CH6	16.567	16.550	>500
	CH11	16.590	16.601	>500
11n HT20	CH1	17.791	17.780	>500
	CH6	17.715	17.751	>500
	CH11	17.698	17.752	>500
11n HT40	CH1	36.389	36.403	>500
	CH4	36.171	36.125	>500
	CH7	36.433	36.184	>500
Conclusion : PASS				

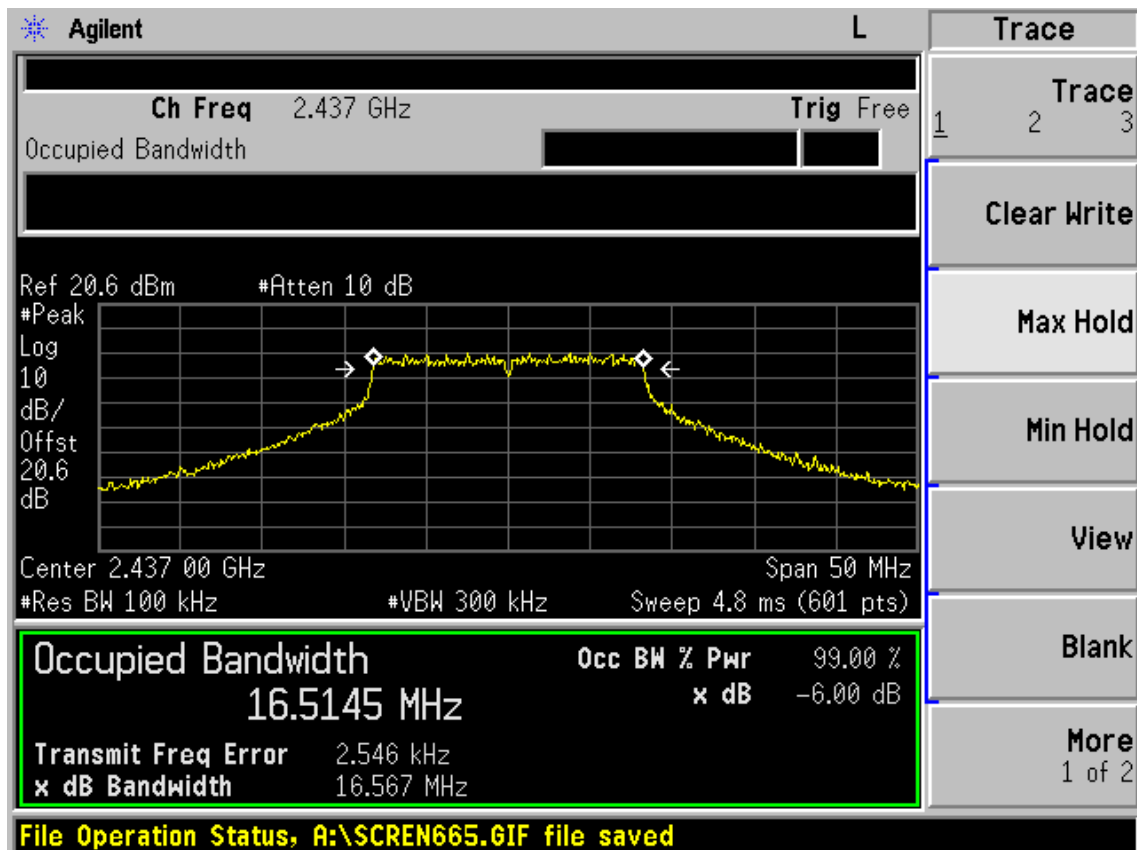
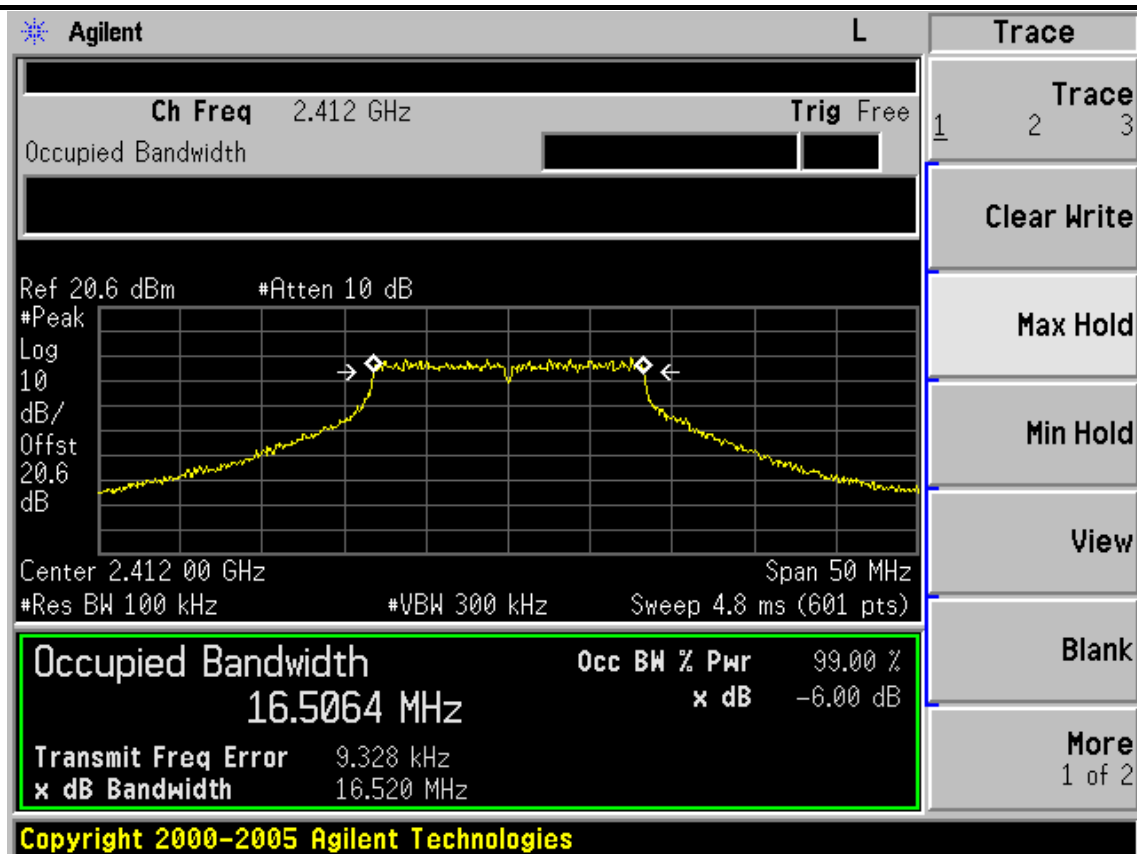
Chain 0

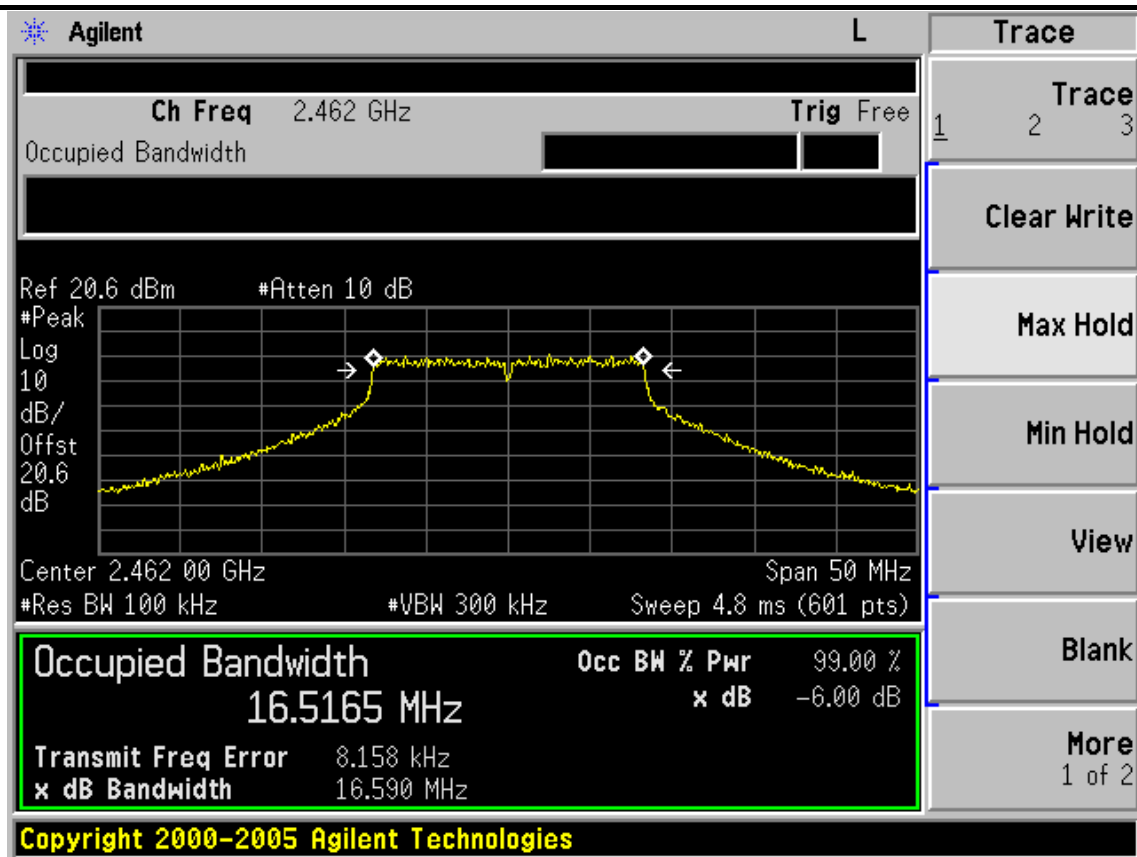
Test Mode: IEEE 802.11b TX



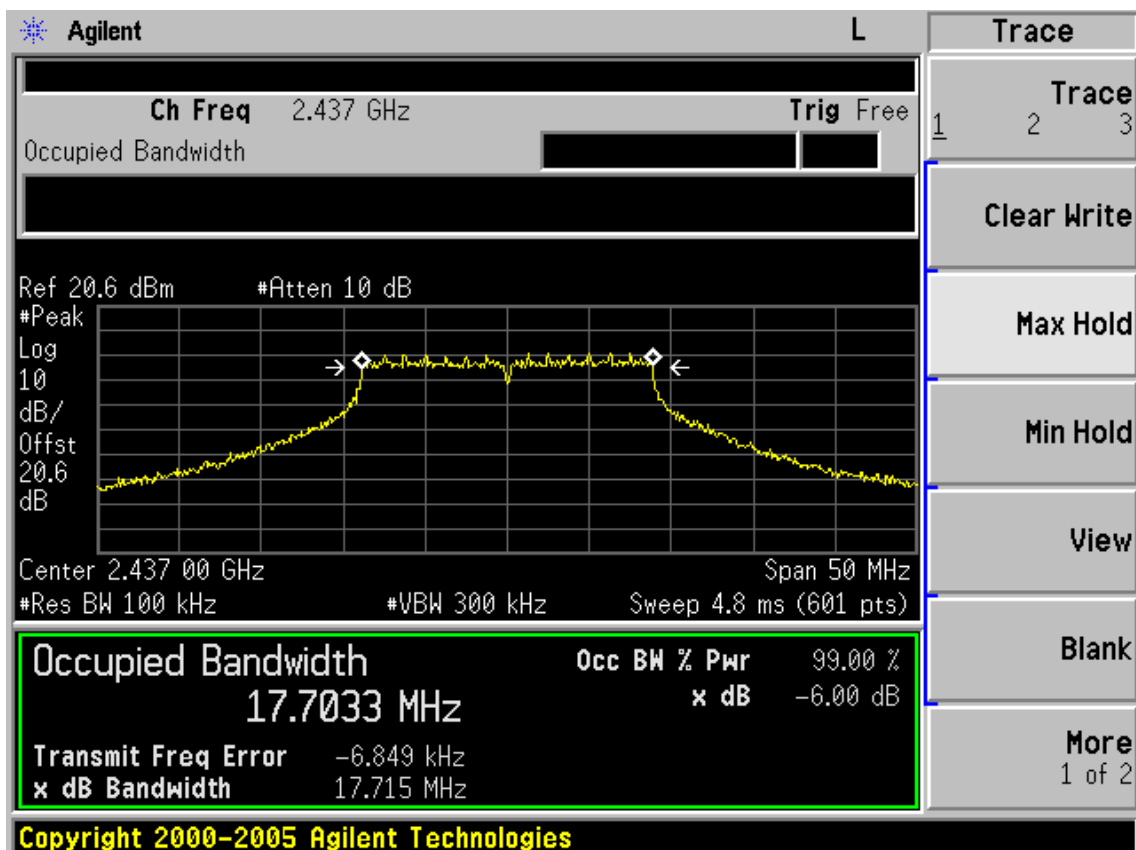
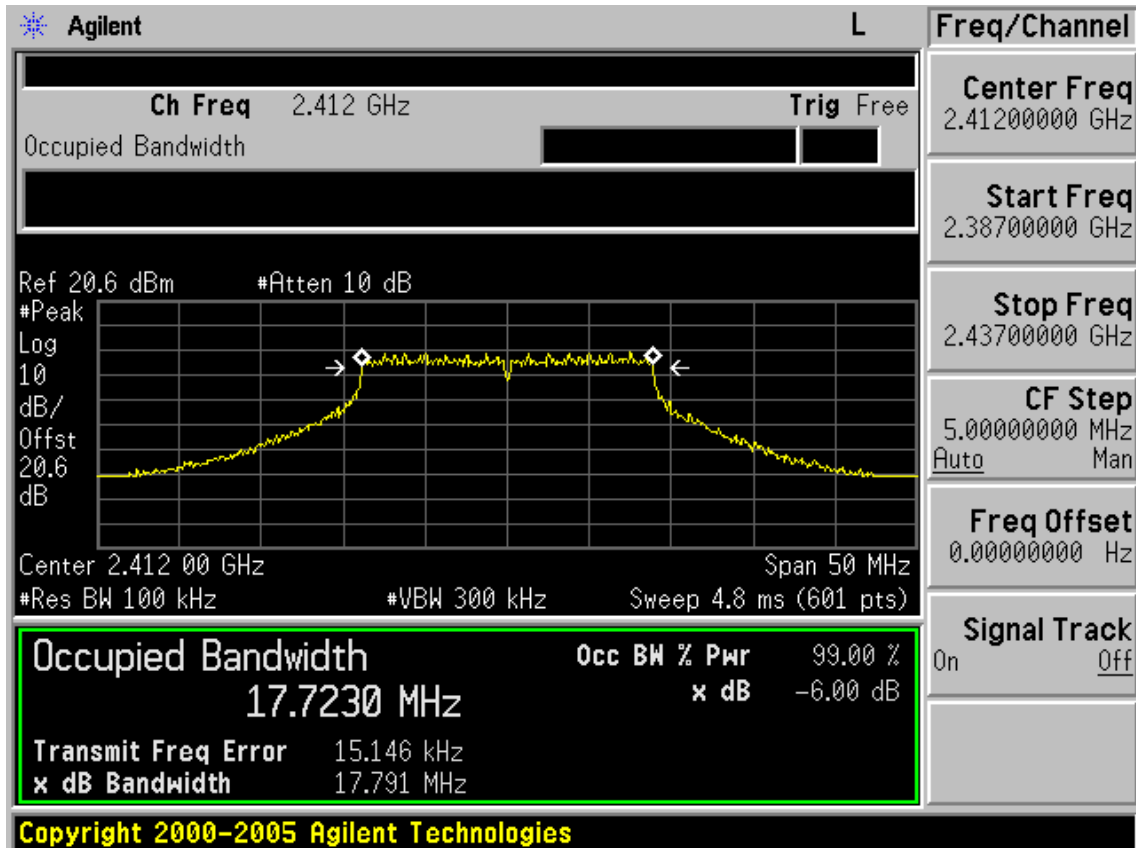


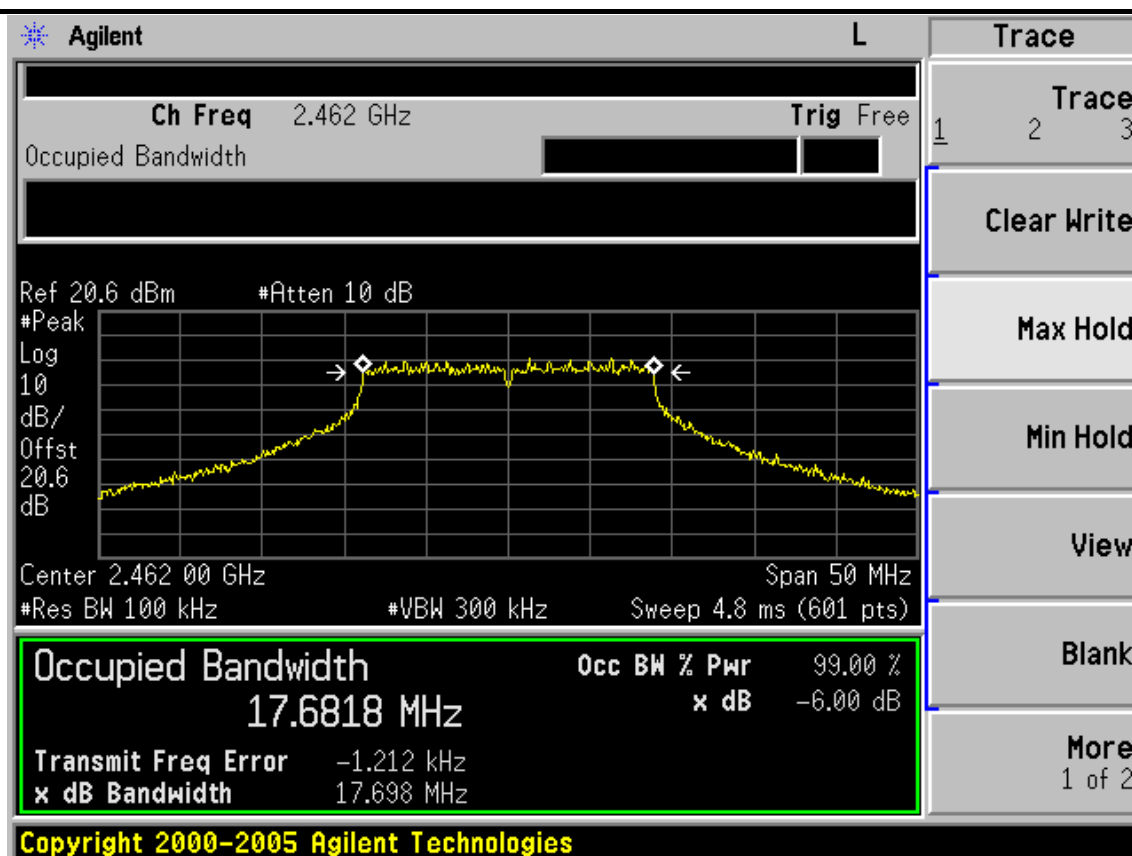
Test Mode: IEEE 802.11g TX



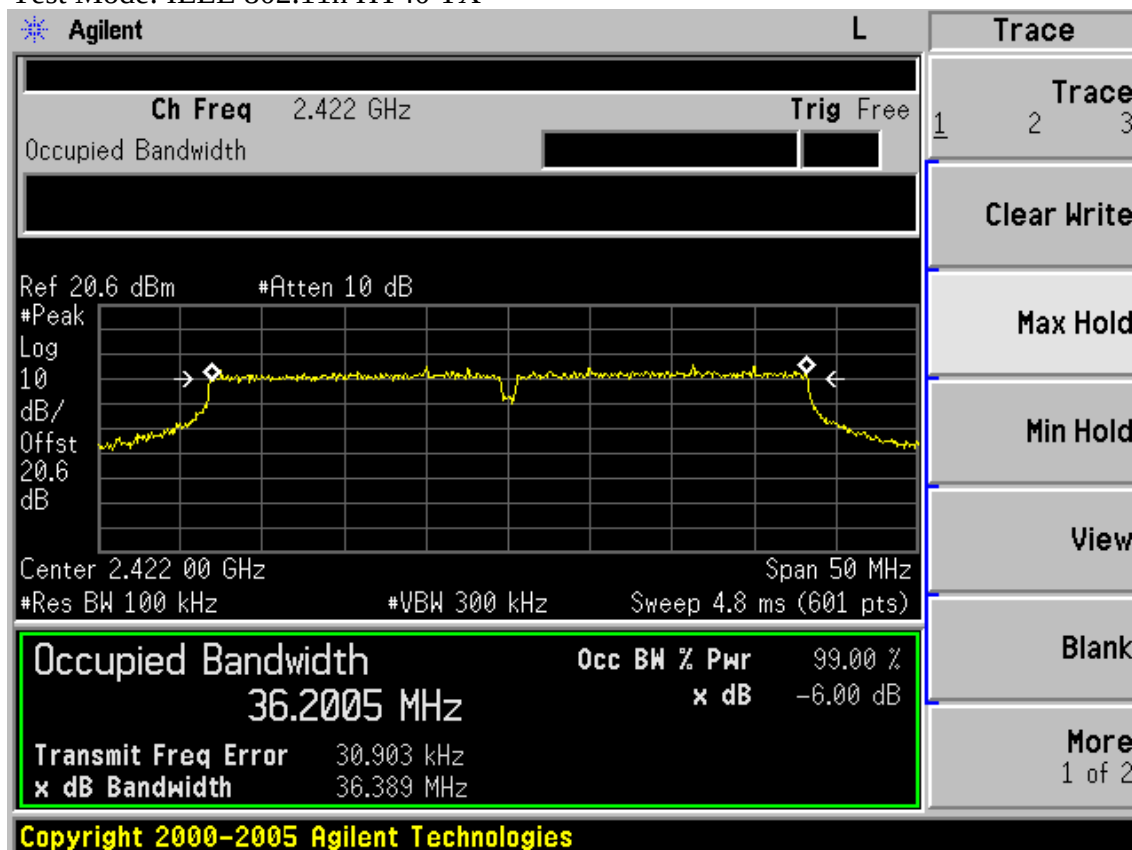


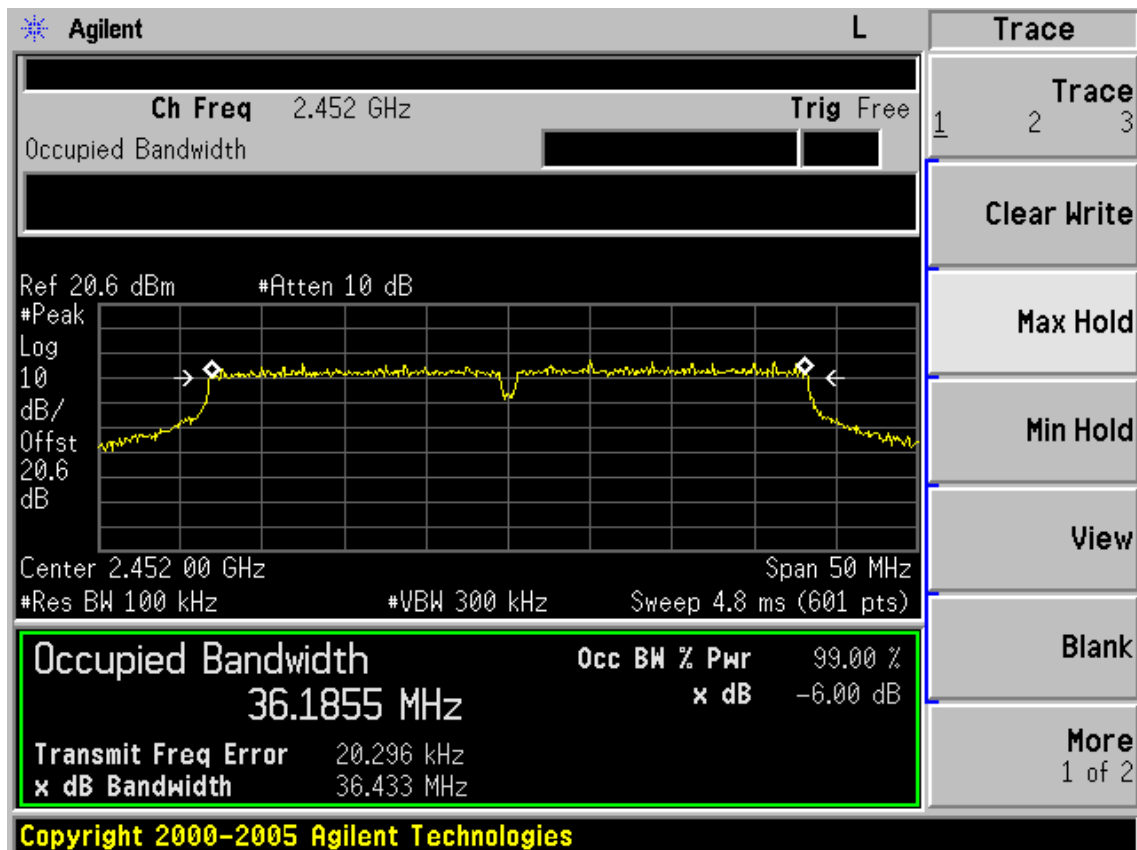
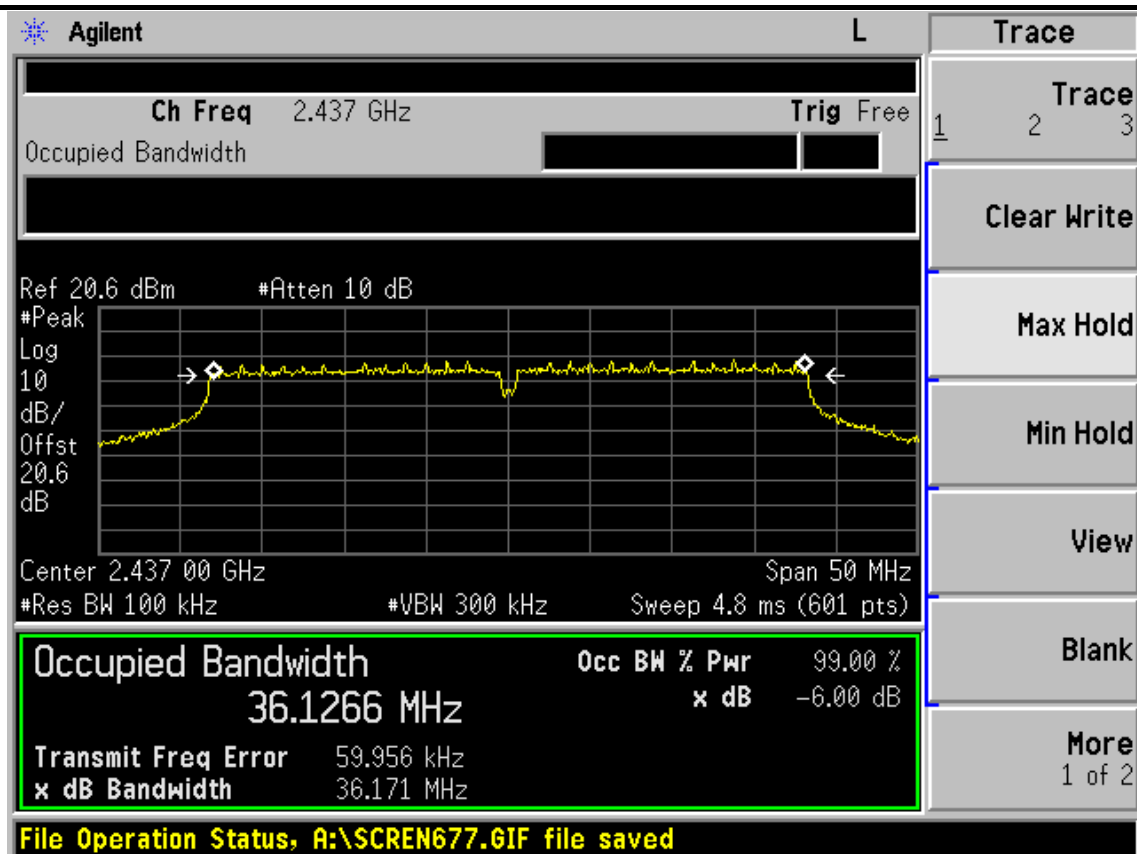
Test Mode: IEEE 802.11n HT20 TX





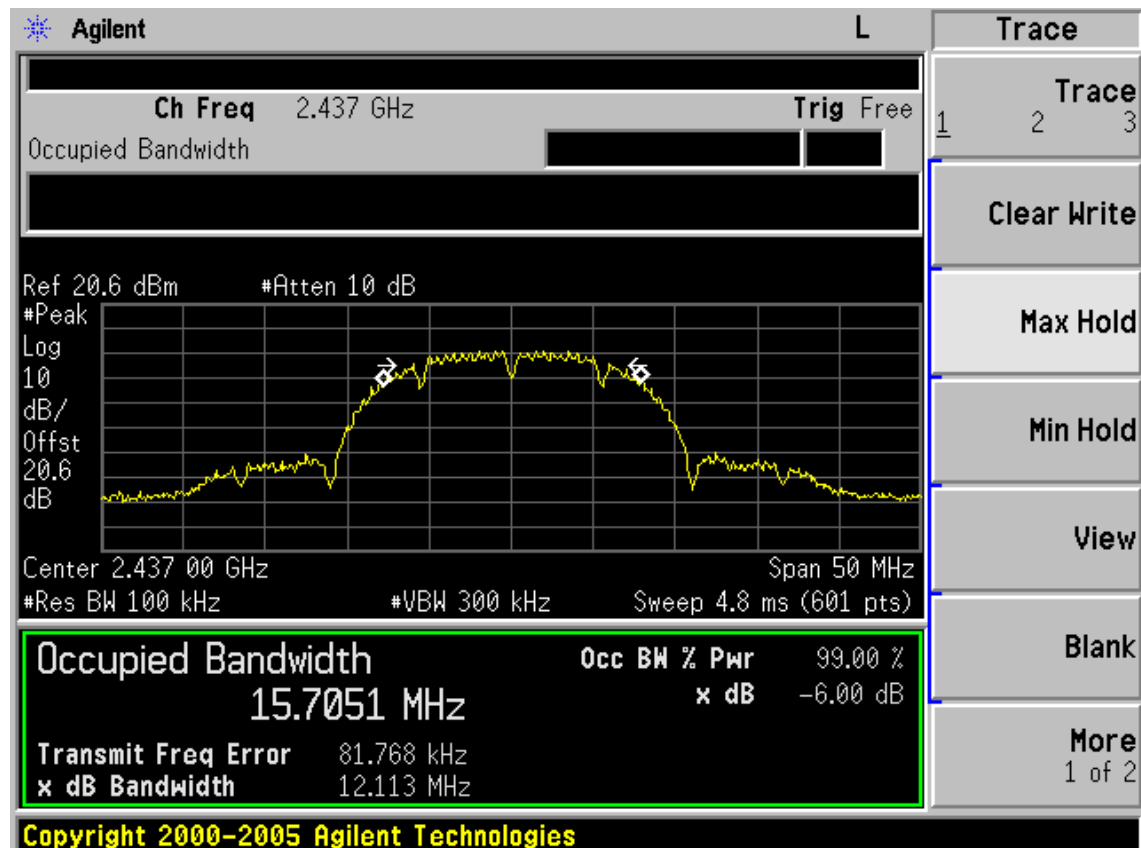
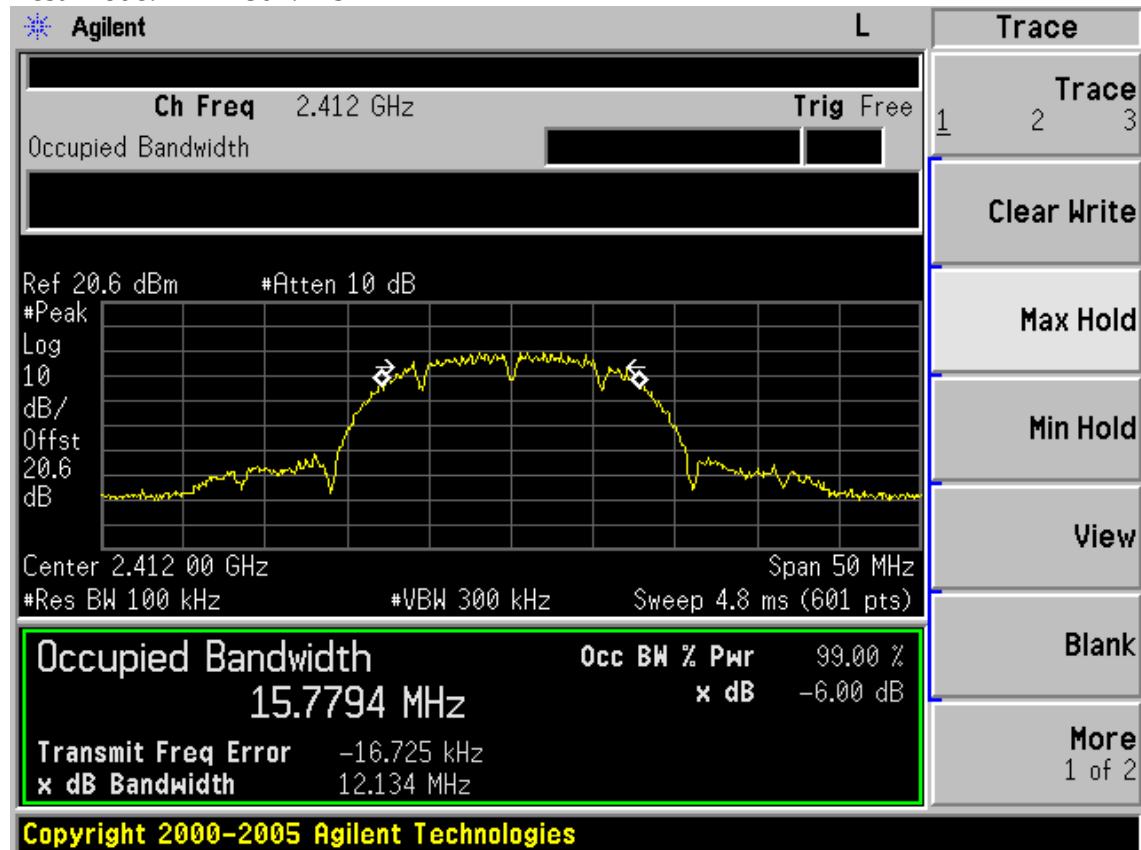
Test Mode: IEEE 802.11n HT40 TX

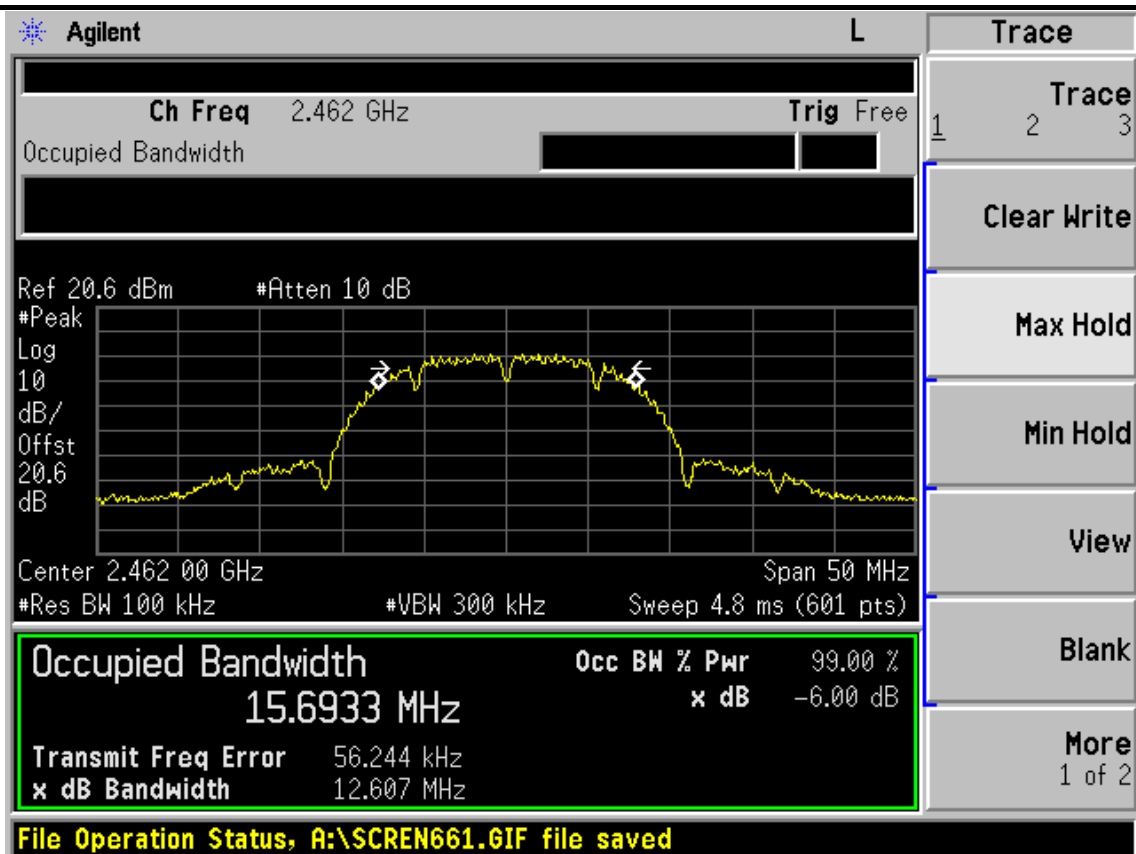




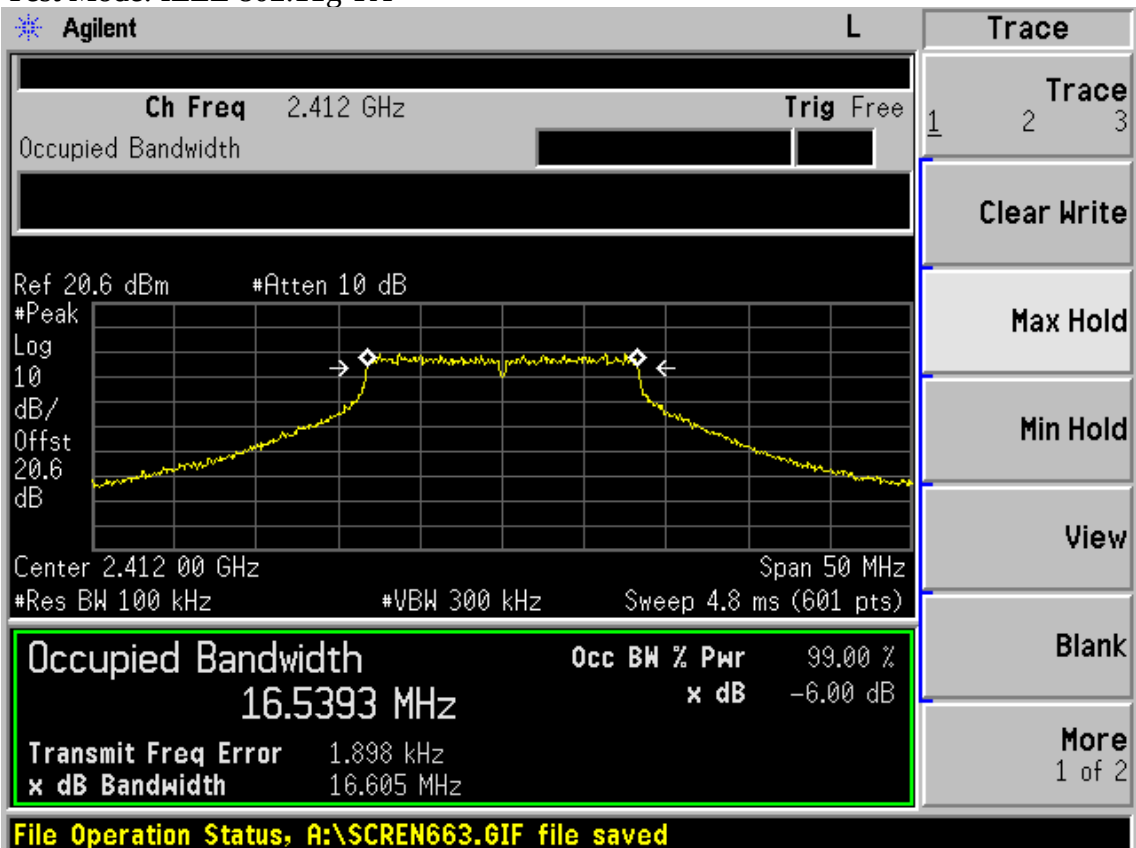
Chain 1

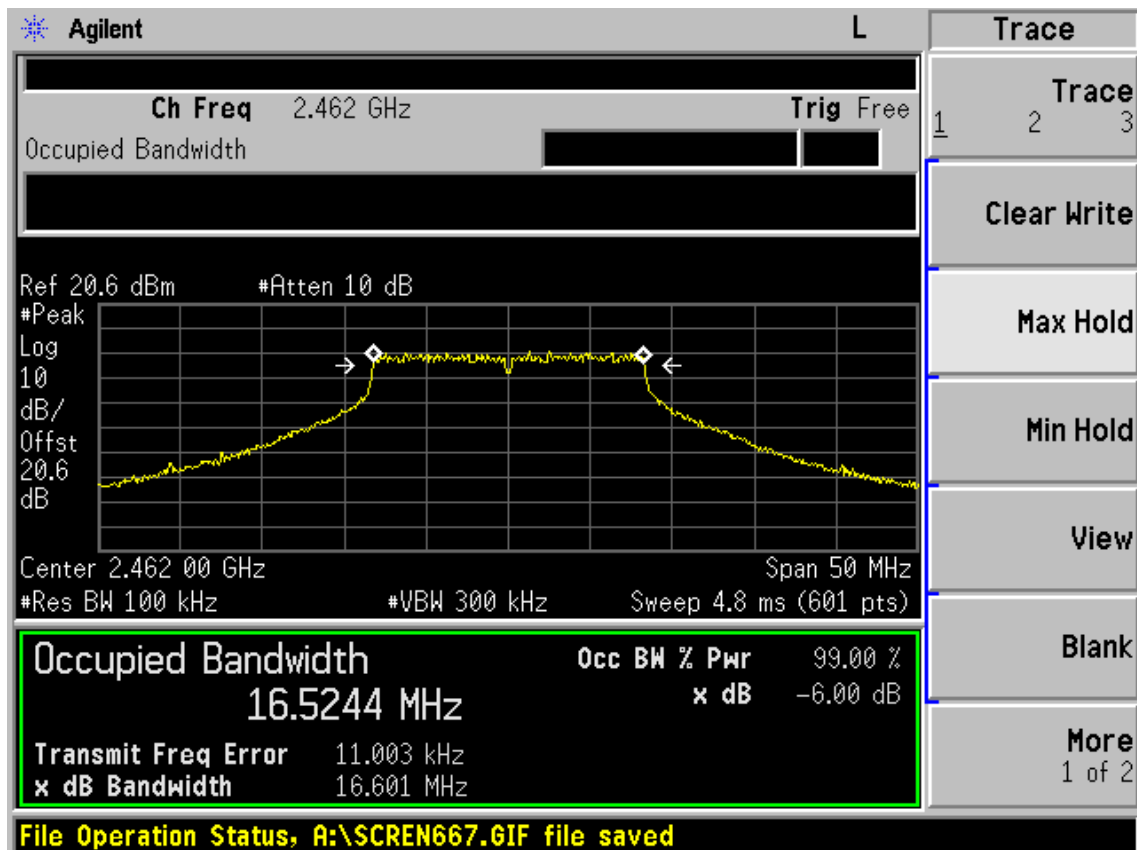
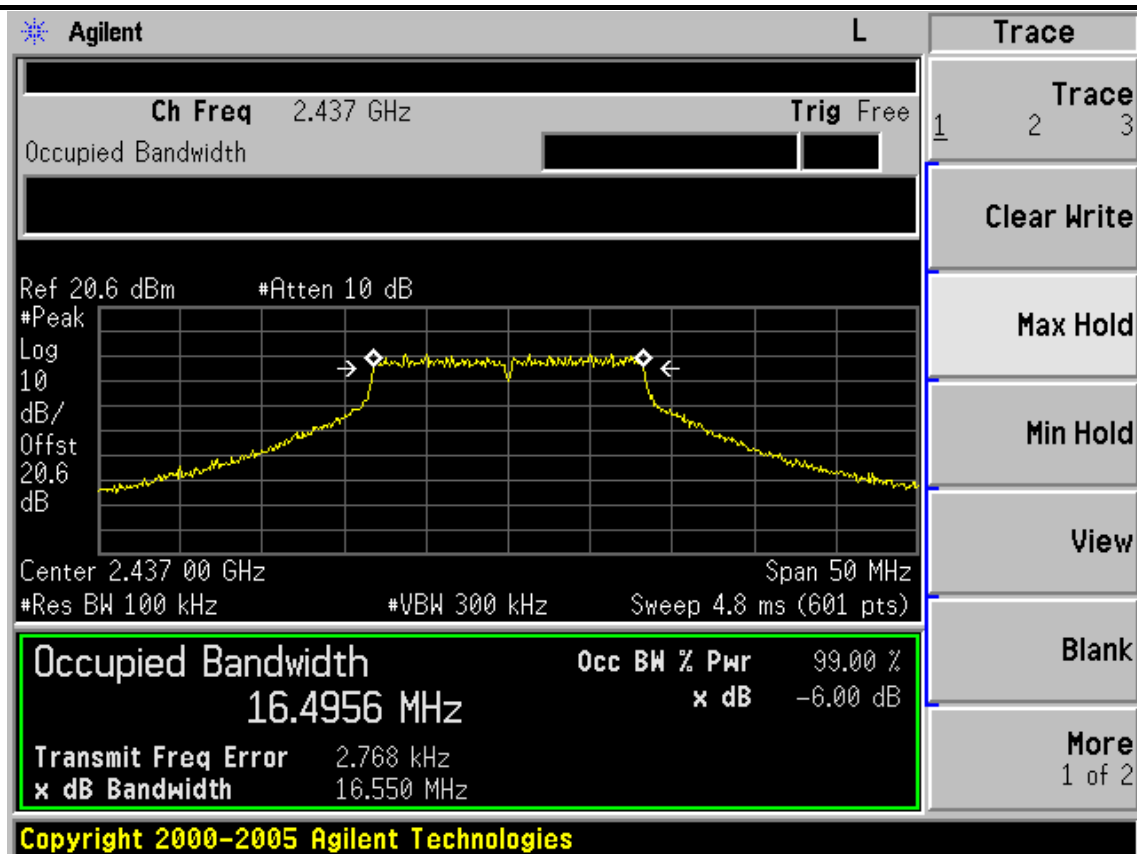
Test Mode: IEEE 802.11b TX



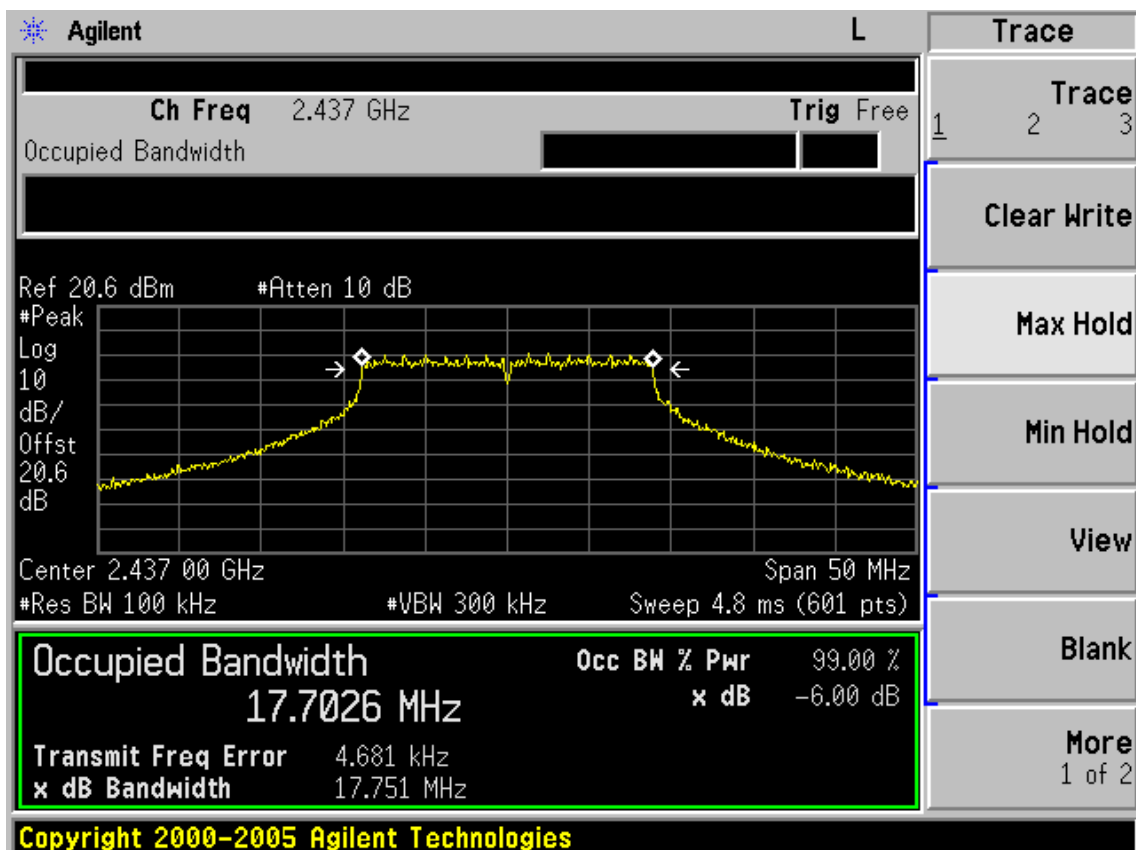
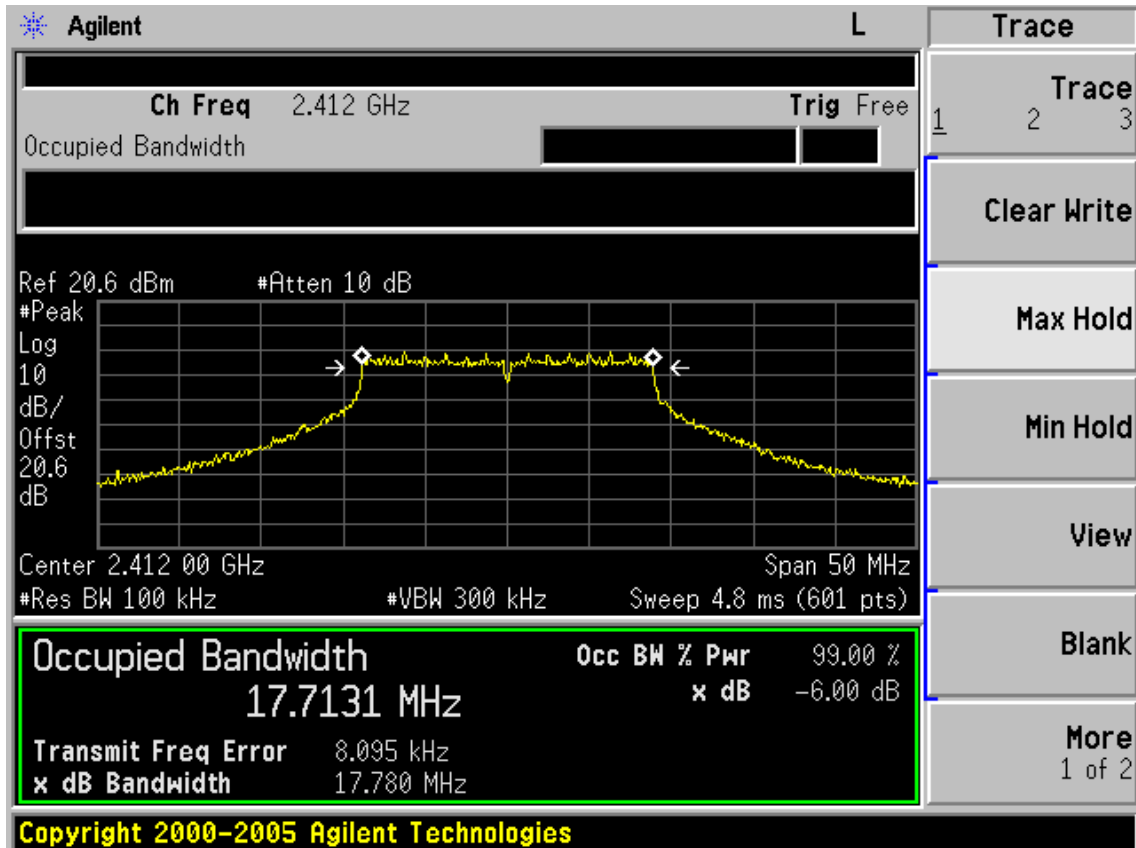


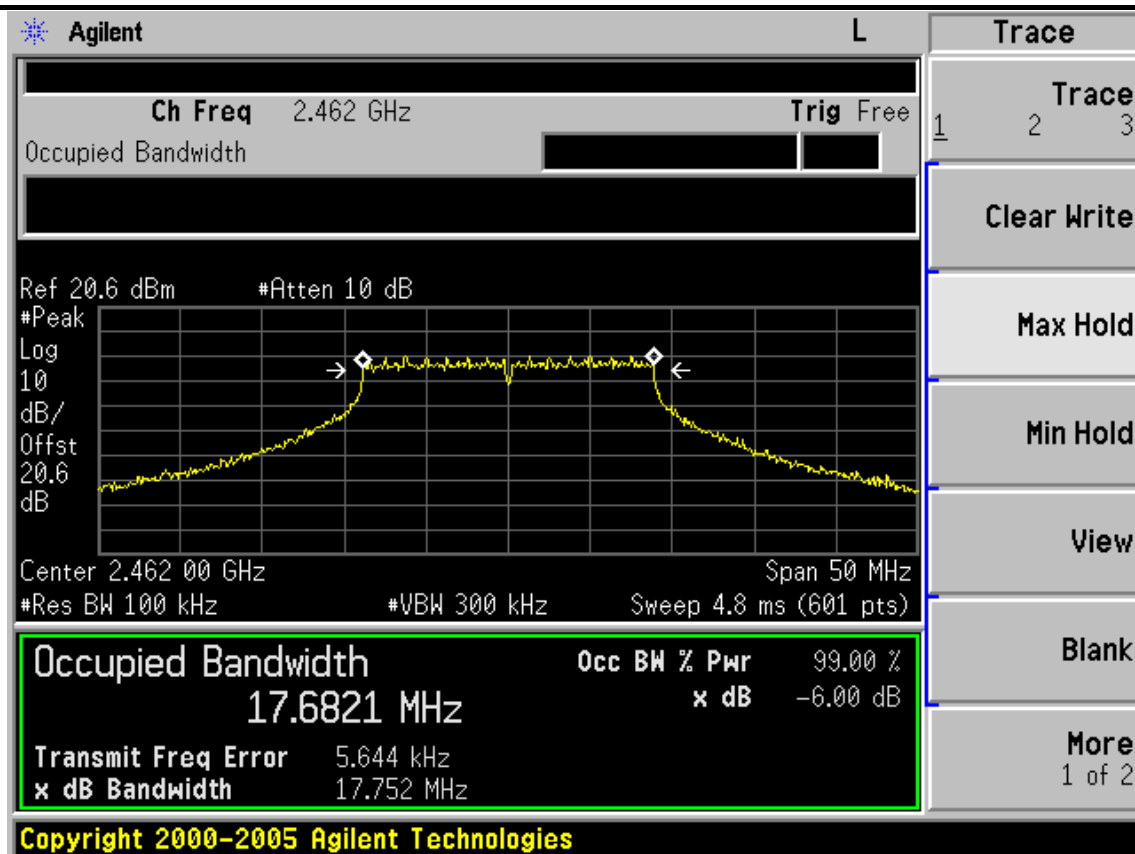
Test Mode: IEEE 802.11g TX



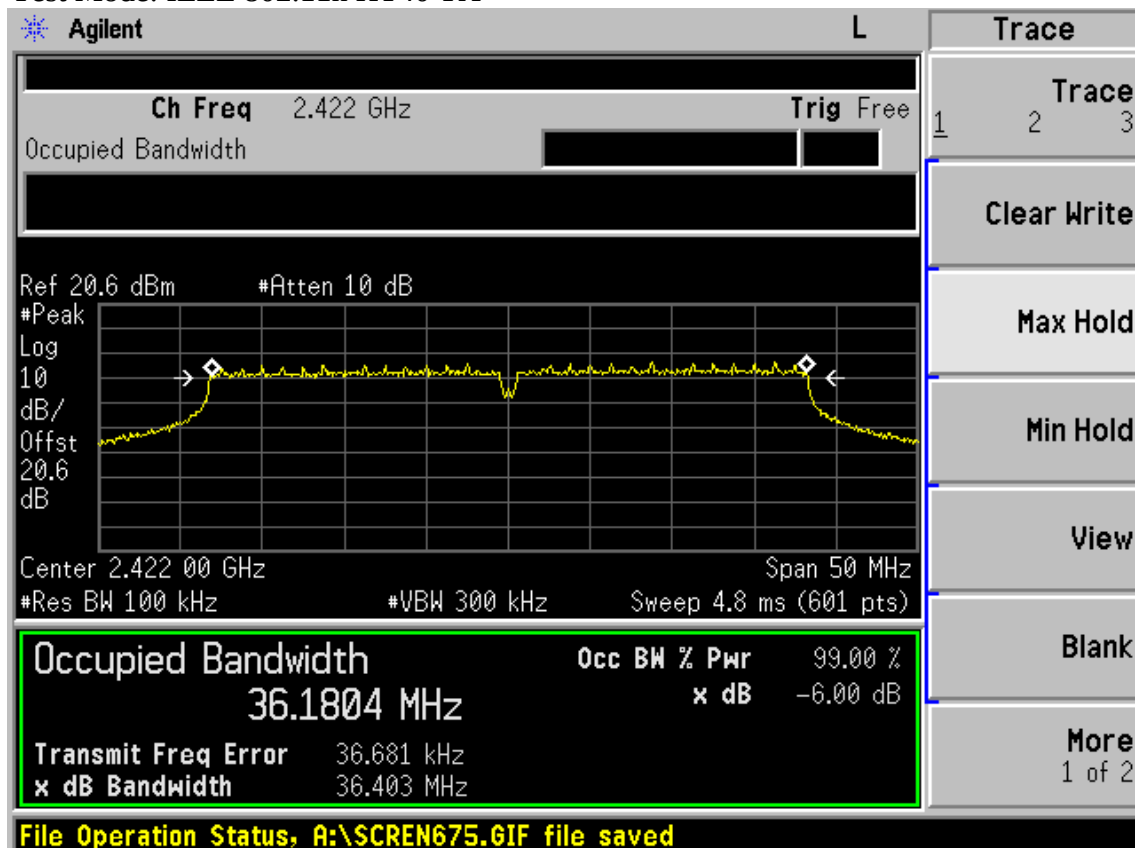


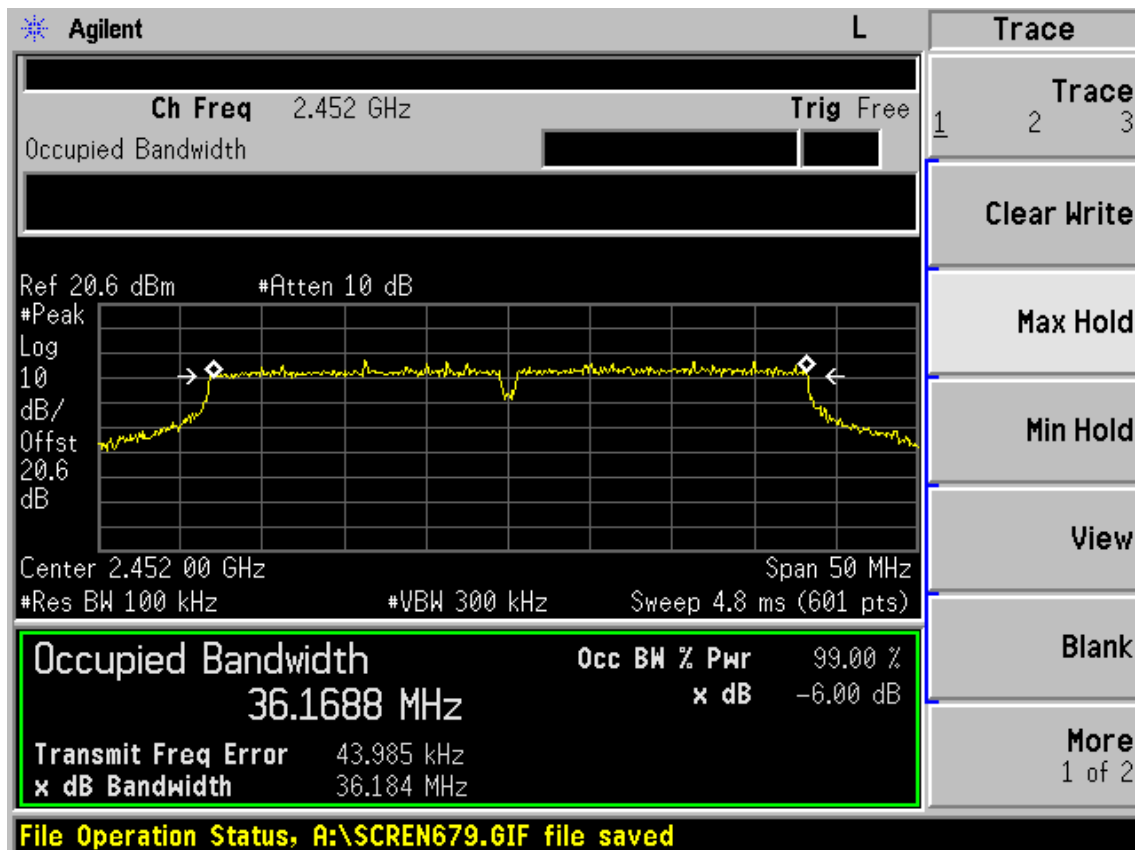
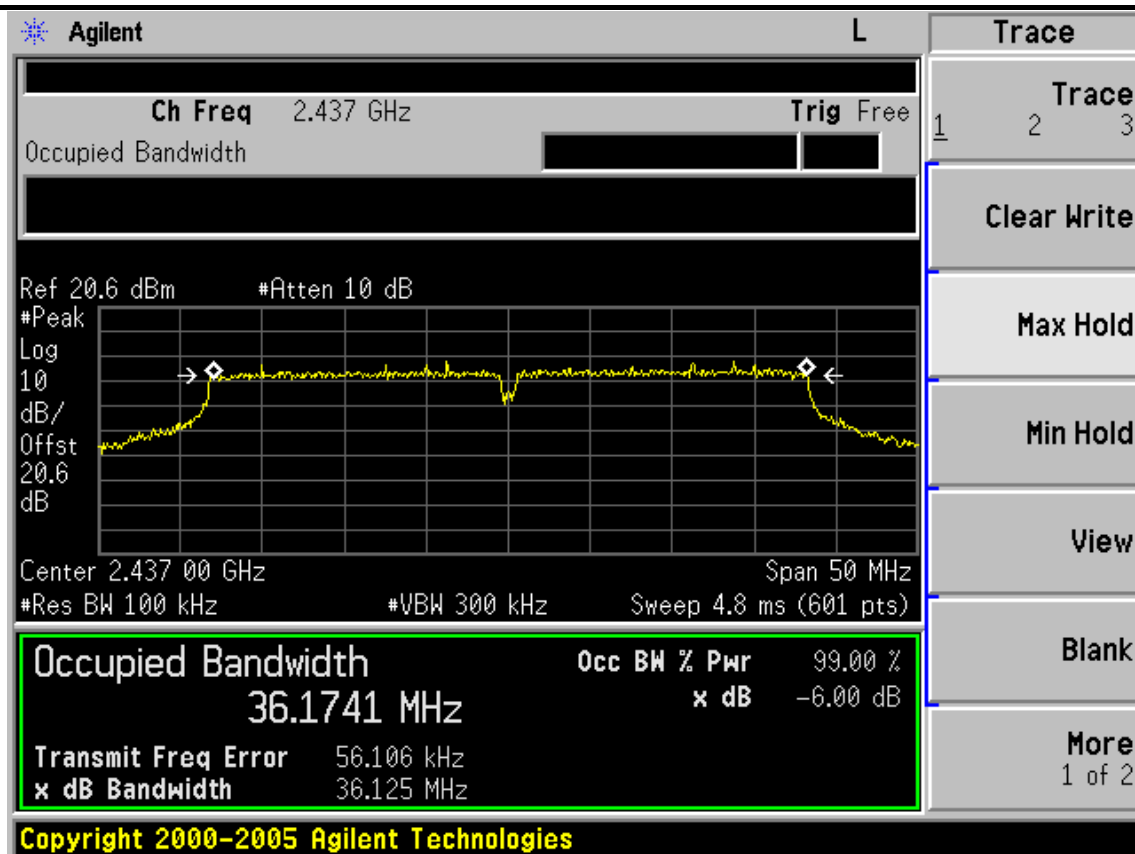
Test Mode: IEEE 802.11n HT20 TX





Test Mode: IEEE 802.11n HT40 TX





8. OUTPUT POWER TEST

8.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Power meter	Anritsu	ML2487A	6K00002472	Oct.20.09	1Year
2.	Power sensor	Anritsu	MA2491A	0033005	Oct.20.09	1Year
3.	Attenuator	Agilent	8491B	MY39262165	May.08,10	1 Year
4.	RF Cable	Hubersuhner	SUCOFLEX 102	28618/2	May.08,10	1Year
5.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08,10	1 Year

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

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

8.3. Test Procedure

- 1, Connected the EUT's antenna port to measure device by 20dB attenuator.
- 2, For IEEE 802.11b/g and IEEE802.11n HT20 mode, use a PK power meter which's bandwidth is above 6dB bandwidth of signal to measure out each test modes' PK output power.
- 3, For IEEE802.11n HT40 mode, because the signal's bandwidth is about 40MHz and above 20MHz bandwidth of power sensor ML2491A. So the channel power measure function of Spectrum Analyzer was used to measure out the PK output power of each test modes'
- 4, For IEEE802.11n mode, it's MIMO technology, so account total PK output power by add each chain's PK output power.

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

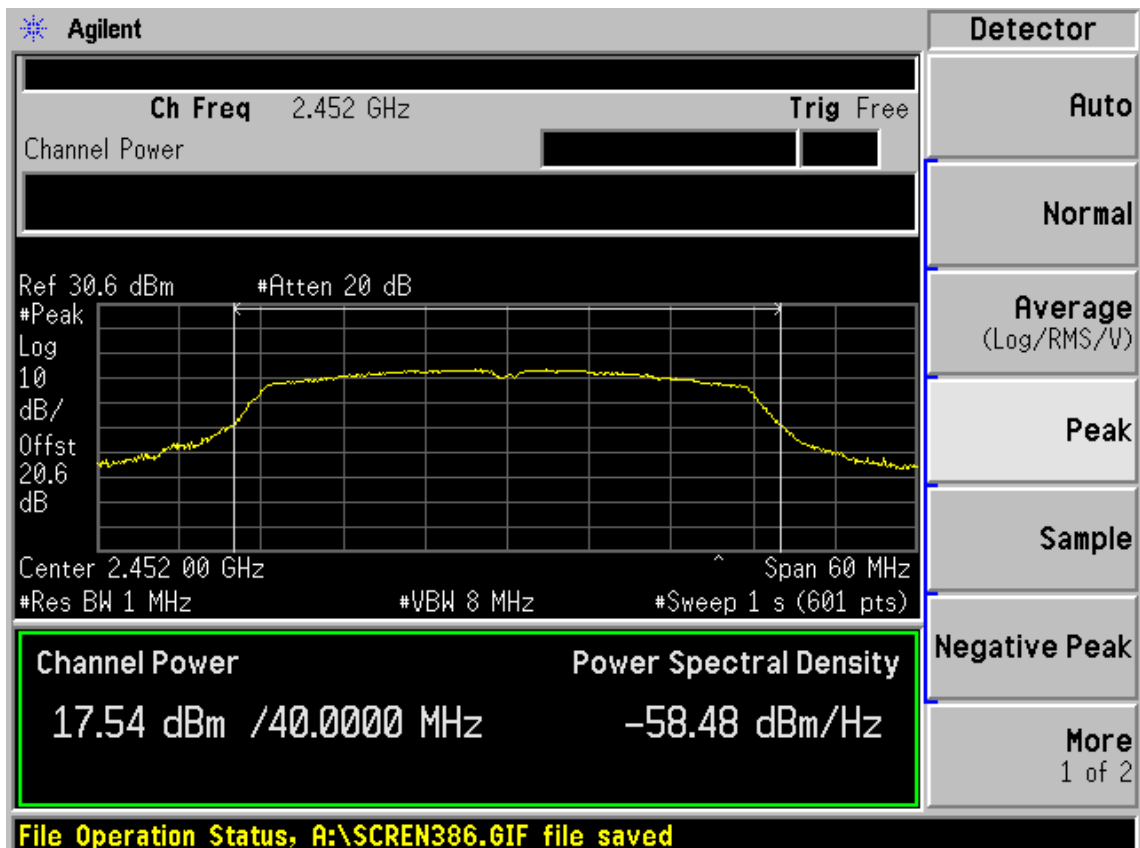
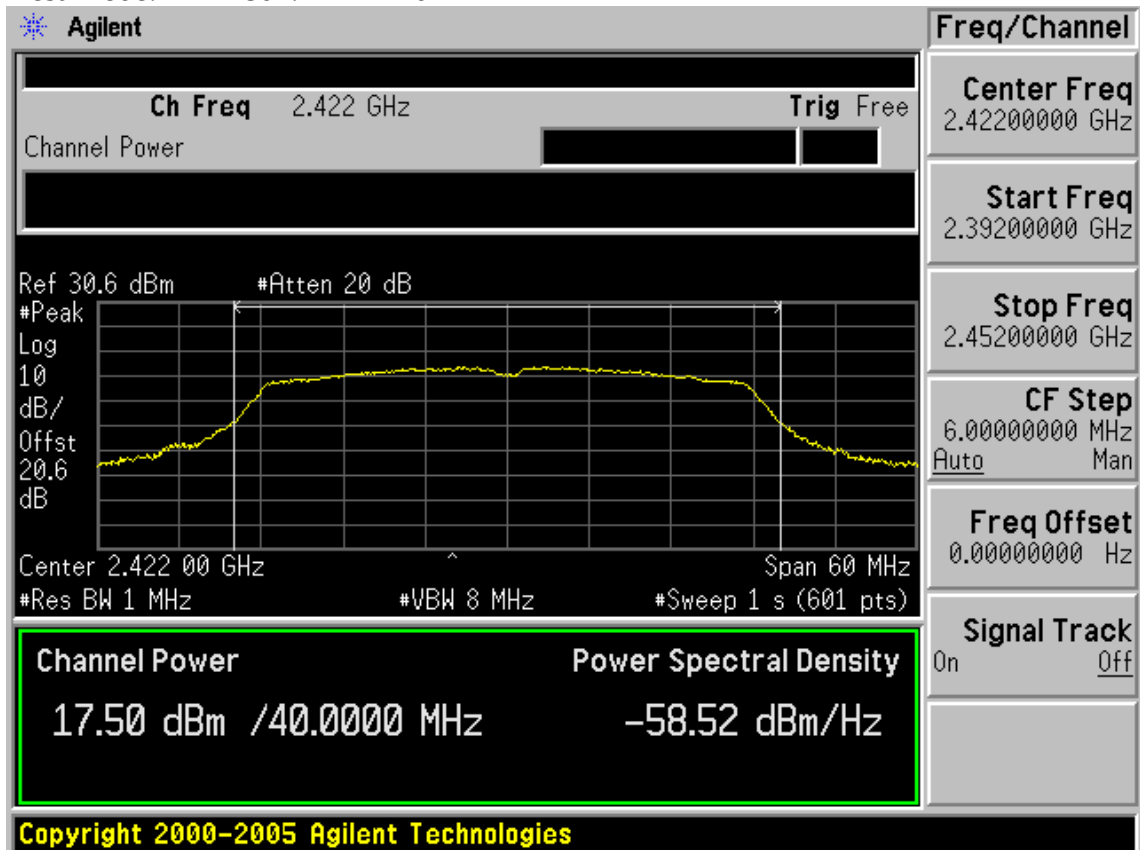
8.4.Test Results

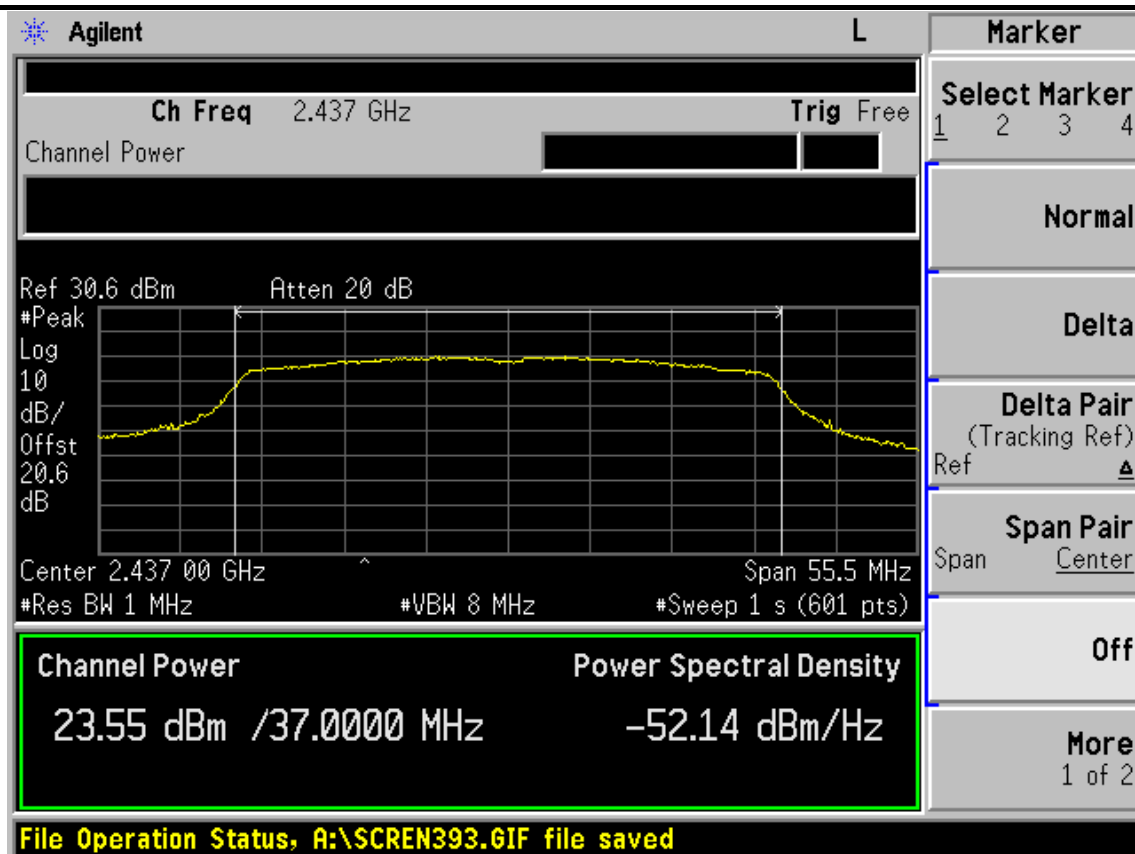
EUT: 300Mbps High Gain Wireless N USB Adapter		
M/N: TL-WN822N		
Test date: 2010-10-07	Pressure:100.6 kpa	Humidity:60%
Tested by:Sunny-lu	Test site: RF site	Temperature : 25°C

Cable loss: 0.6dB		Attenuator loss: 20 dB		Antenna Gain: 2.5dBi	
Mode	CH	Result			Limit
		Chain 0 PK Output power(dBm)	Chain 1 PK Output power(dBm)	Total PK Output power(dBm)	(dBm)
11b	CH1	21.07	21.03	N/A	30
	CH6	21.20	21.12	N/A	30
	CH11	21.13	21.05	N/A	30
11g	CH1	21.83	21.43	N/A	30
	CH6	22.69	22.50	N/A	30
	CH11	21.28	21.37	N/A	30
11n HT20	CH1	19.44	19.06	22.26	30
	CH6	22.89	22.65	25.78	30
	CH11	19.39	19.54	22.48	30
11n HT40	CH1	17.50	17.28	20.40	30
	CH4	23.55	23.29	26.43	30
	CH7	17.54	17.65	20.61	30
Conclusion: PASS					

Chain 0

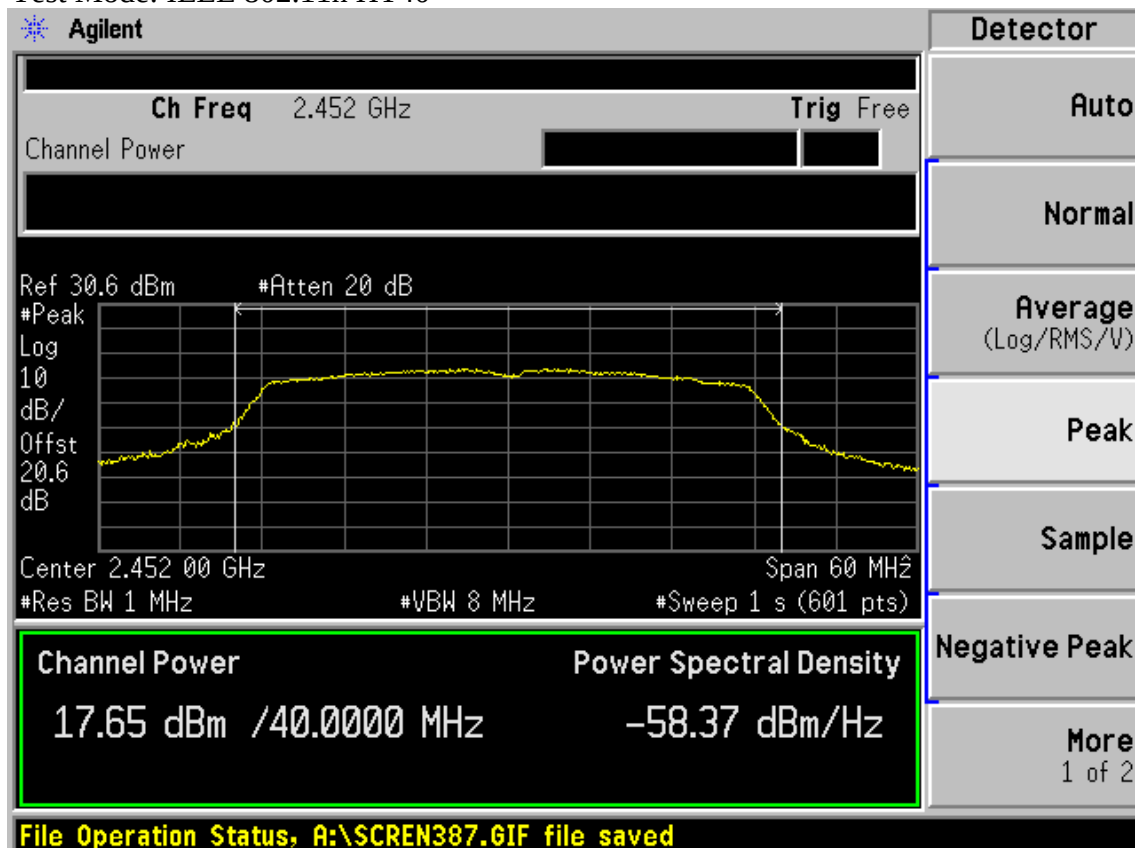
Test Mode: IEEE 802.11n HT40

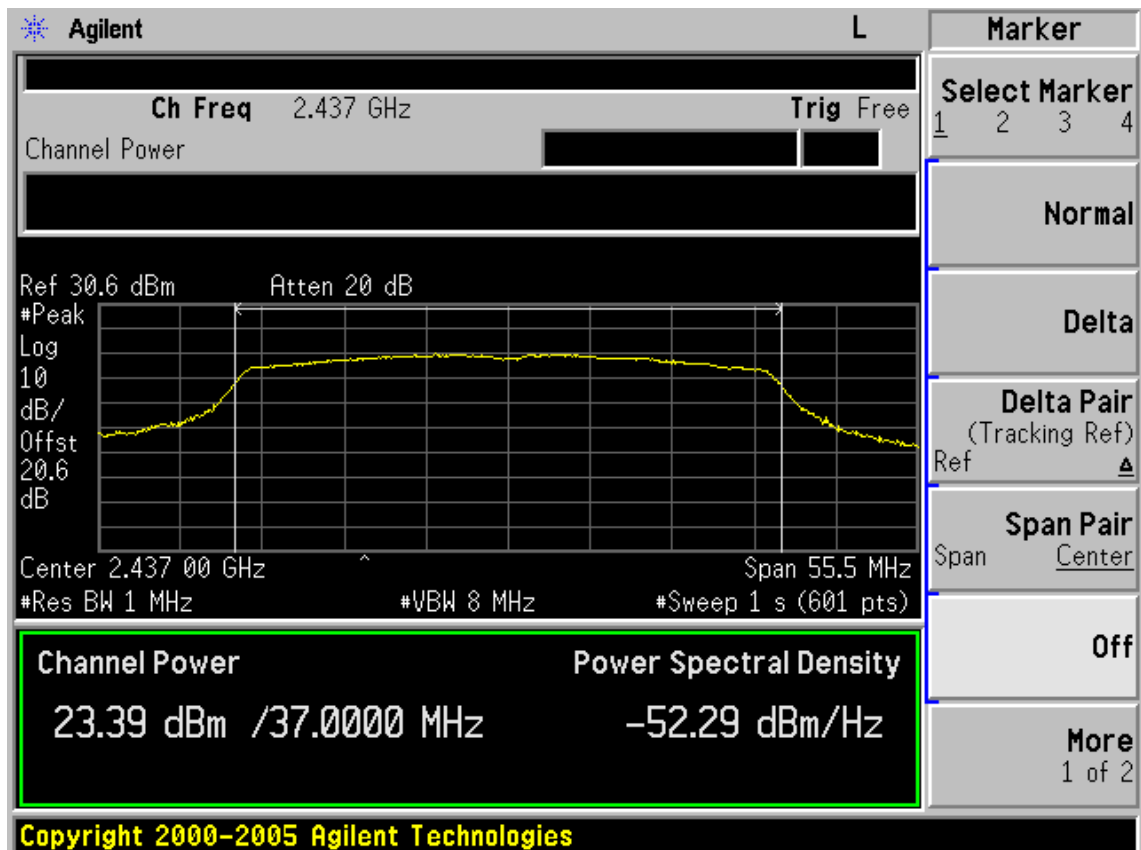
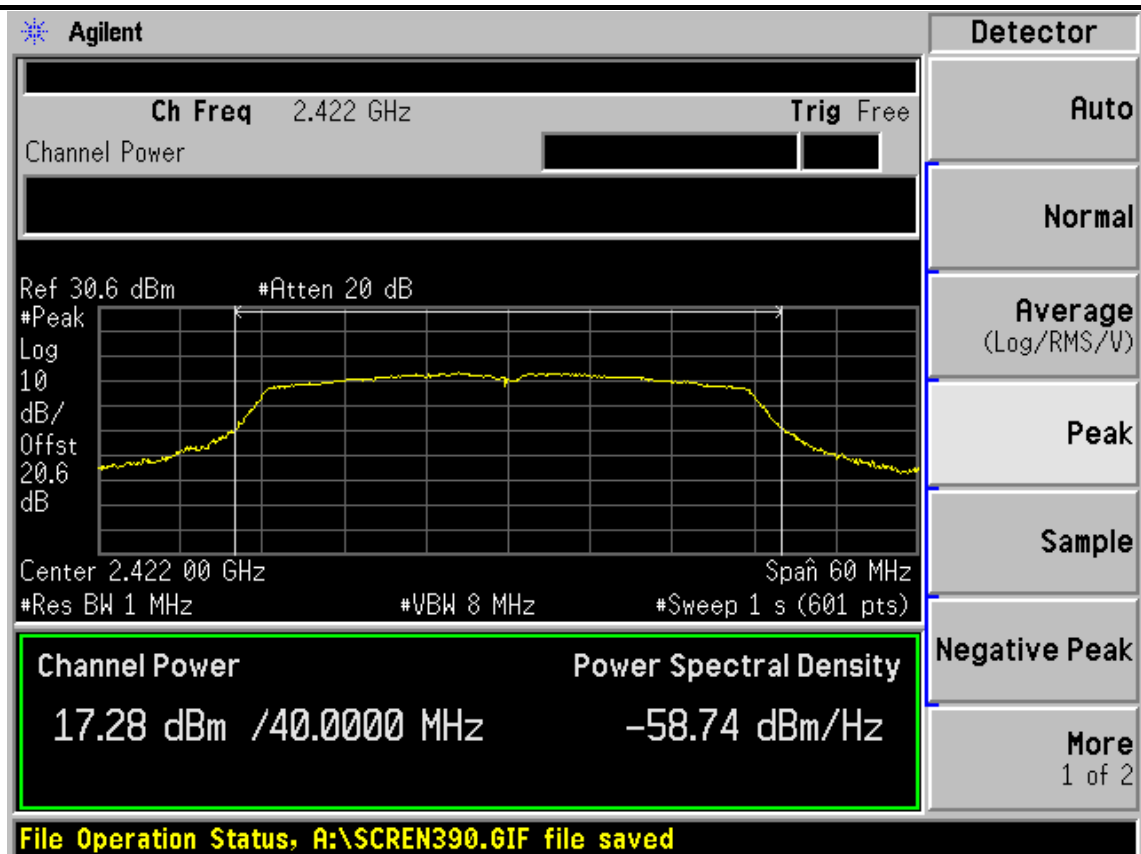




Chain 1

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 Analyzer	Agilent	E4446A	US44300459	May.08, 10	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08, 10	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08, 10	1 Year

9.2. Limit

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

9.3. Test Procedure

- 1, Connected the EUT's antenna port to spectrum analyzer device by 20dB attenuator.
- 2, Follow the test procedure as described in ANSI C.10: 2009 Clause 6.11.2.3 to measure out each test modes and chain's power density with 3KHz.
- 3, For IEEE802.11n mode, it's MIMO technology, so account total power density by add each chain's power density.

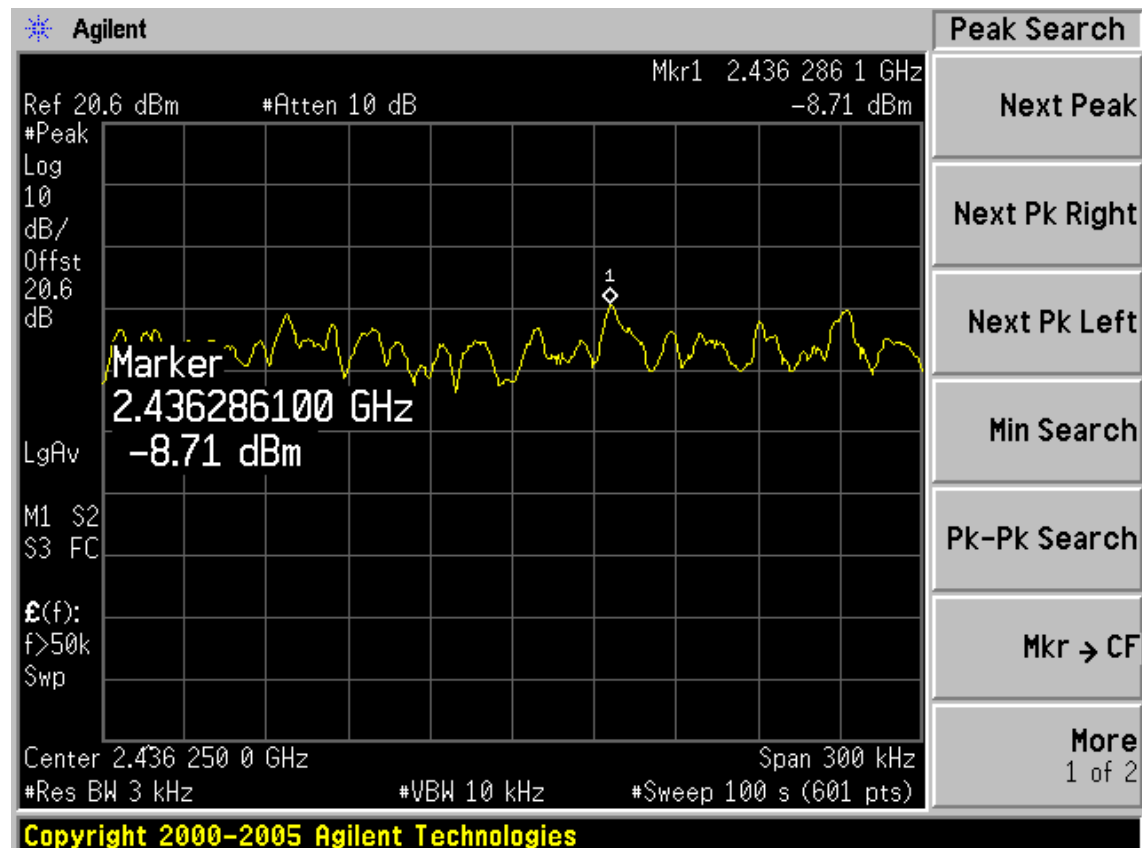
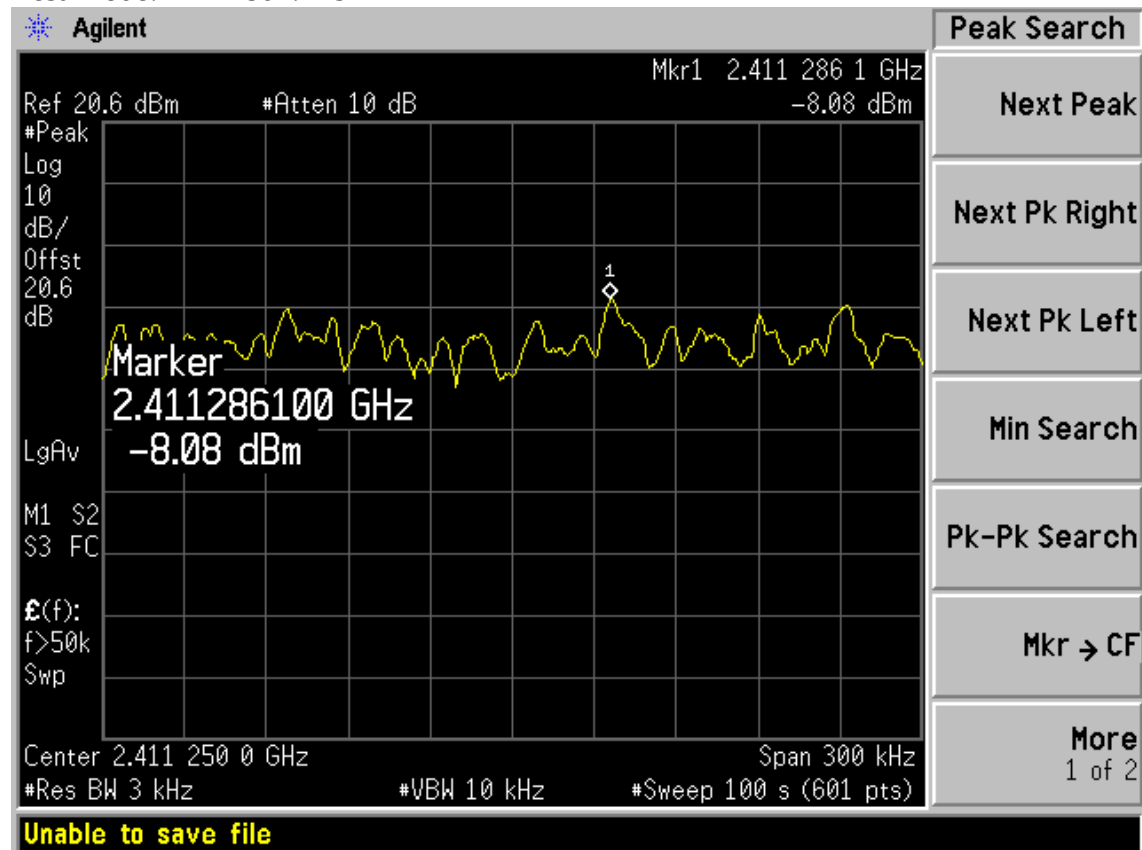
9.4.Test Results

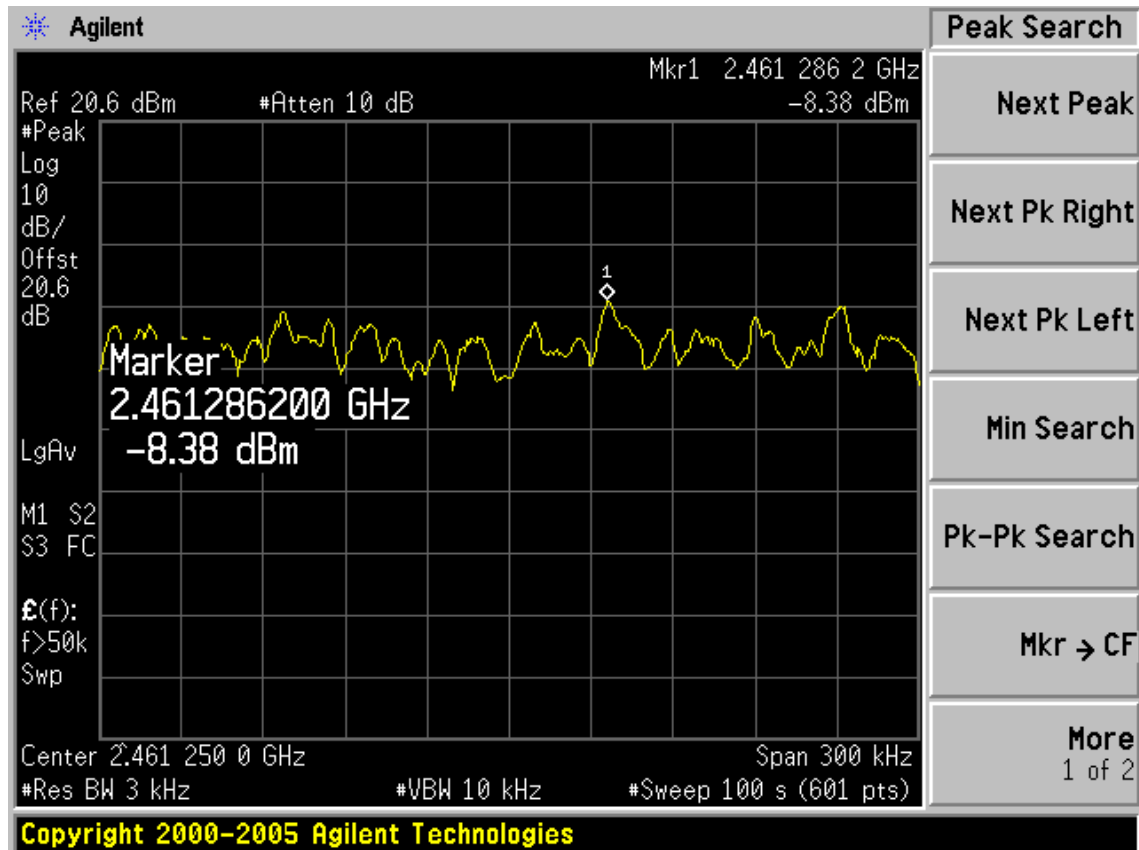
EUT:300Mbps High Gain Wireless N USB Adapter		
M/N: TL-WN822N		
Test date:2010-10-07	Pressure:100.6kpa	Humidity:60%
Tested by:Sunny-lu	Test site: RF site	Temperature : 25°C

Cable loss:0.6dB		Attenuator loss: 20dB		Antenna Gain: 2.5dBi	
Mode	CH	Result			Limit
		Chain0 Power density (dBm/3KHz)	Chain1 Power density (dBm/3KHz)	Total Power density (dBm/3KHz)	(dBm/3KHz)
11b	CH1	-8.08	-8.68	N/A	8
	CH6	-8.71	-9.05	N/A	8
	CH11	-8.38	-8.98	N/A	8
11g	CH1	-9.28	-9.22	N/A	8
	CH6	-9.21	-9.67	N/A	8
	CH11	-14.26	-14.36	N/A	8
11n HT20	CH1	-11.03	-12.03	-8.49	8
	CH6	-9.44	-9.48	-6.45	8
	CH11	-12.62	-12.56	-9.58	8
11n HT40	CH1	-10.19	-10.34	-7.25	8
	CH4	-1.73	-2.07	1.11	8
	CH7	-9.89	-9.91	-6.89	8
Conclusion: PASS					

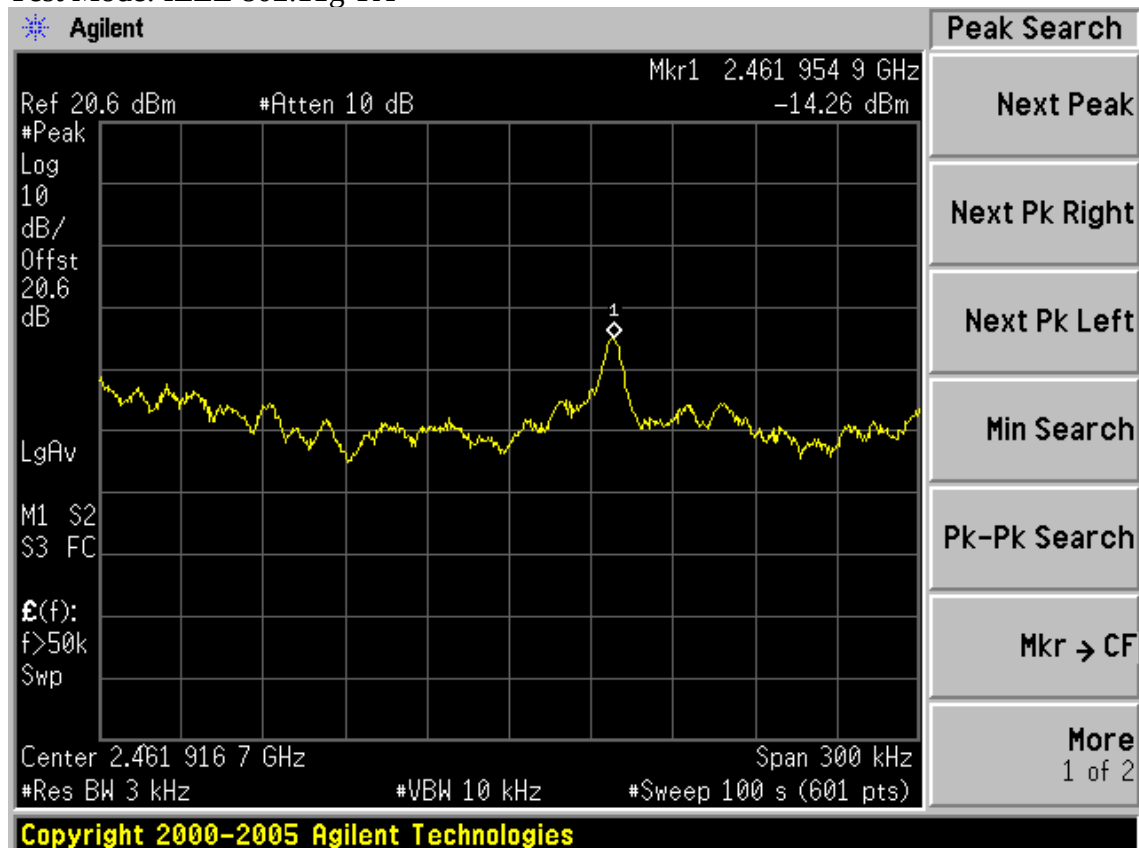
Chain 0

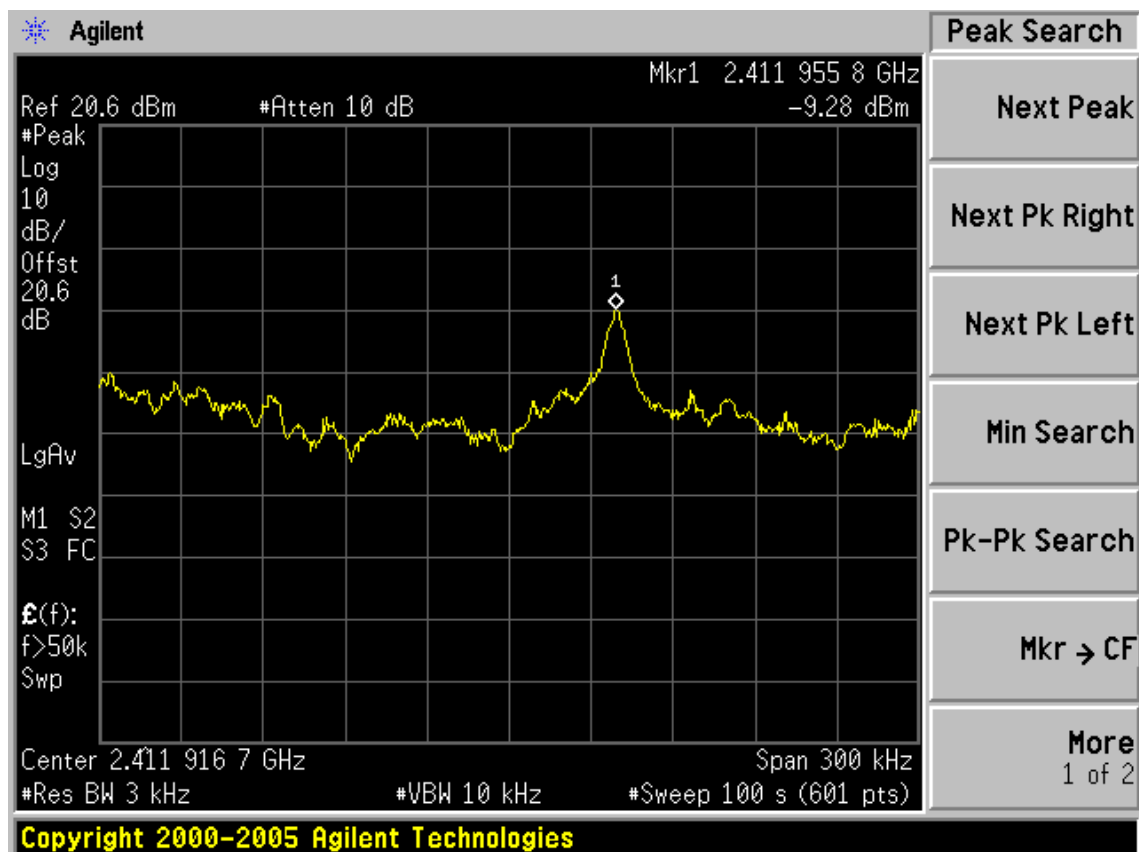
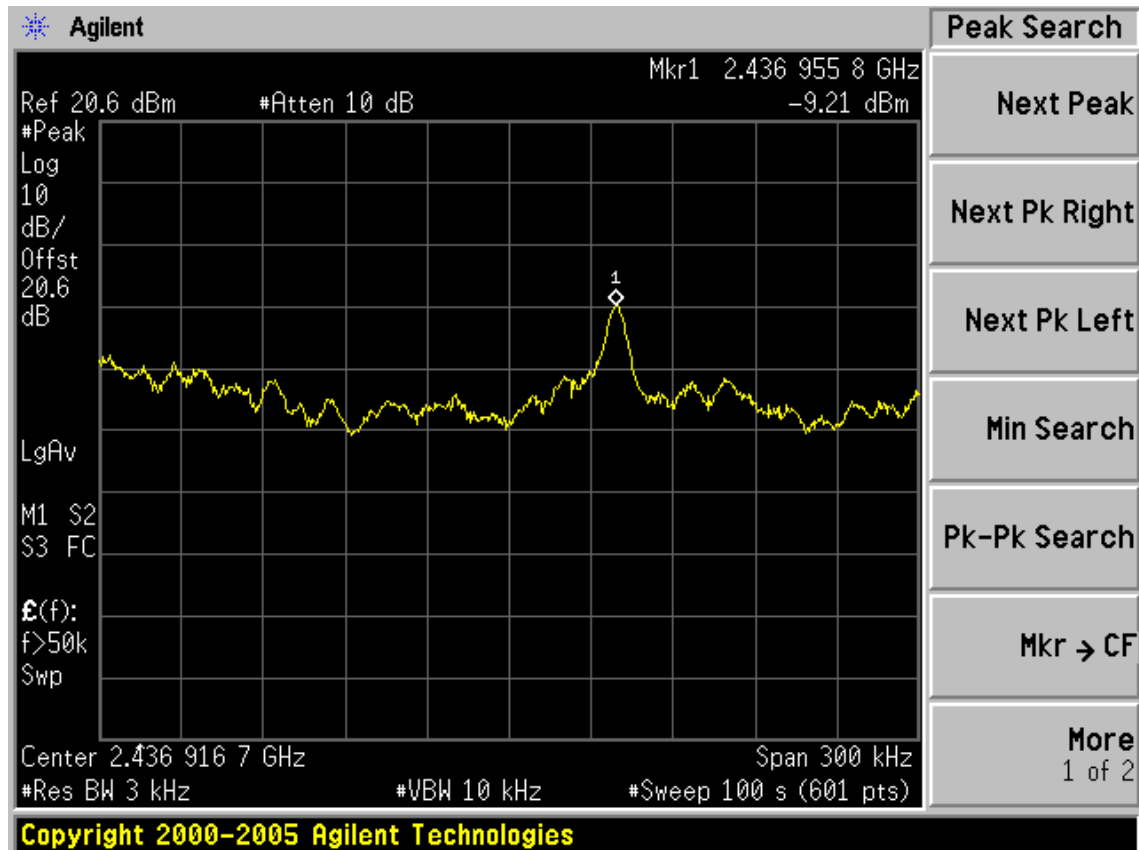
Test Mode: IEEE 802.11b TX



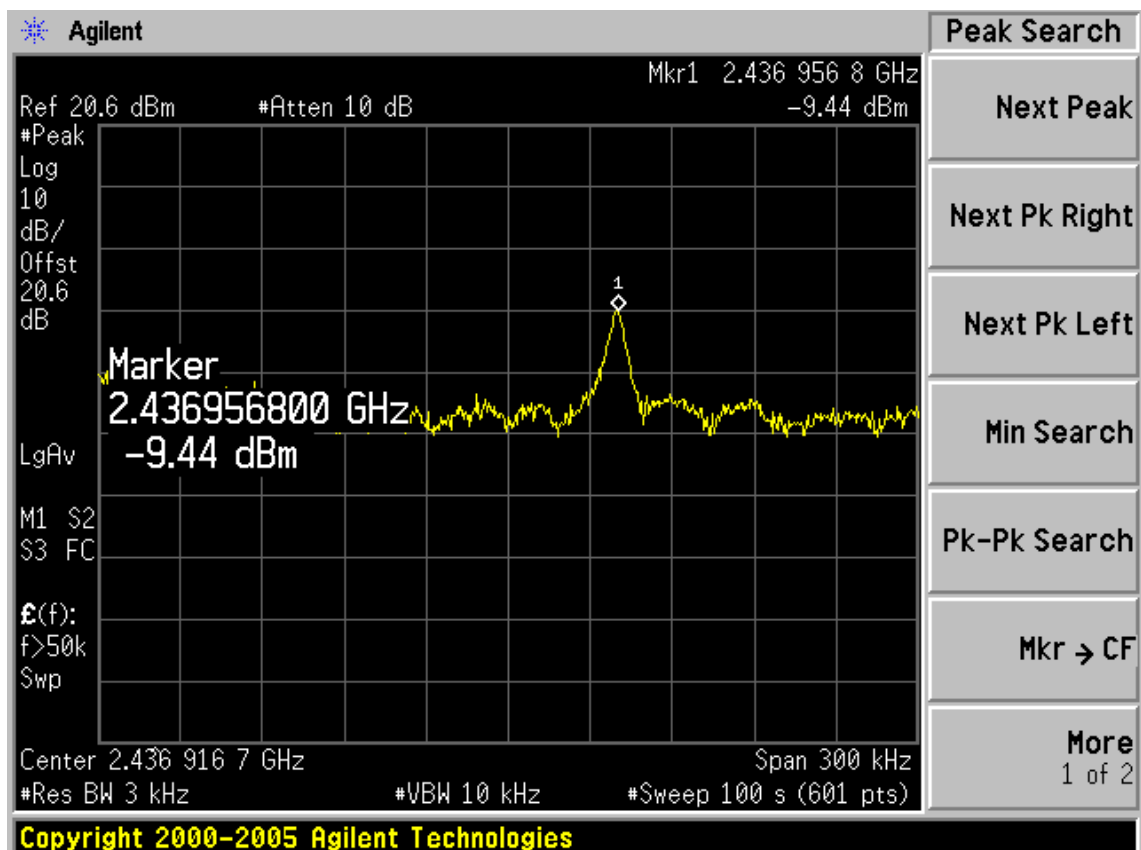
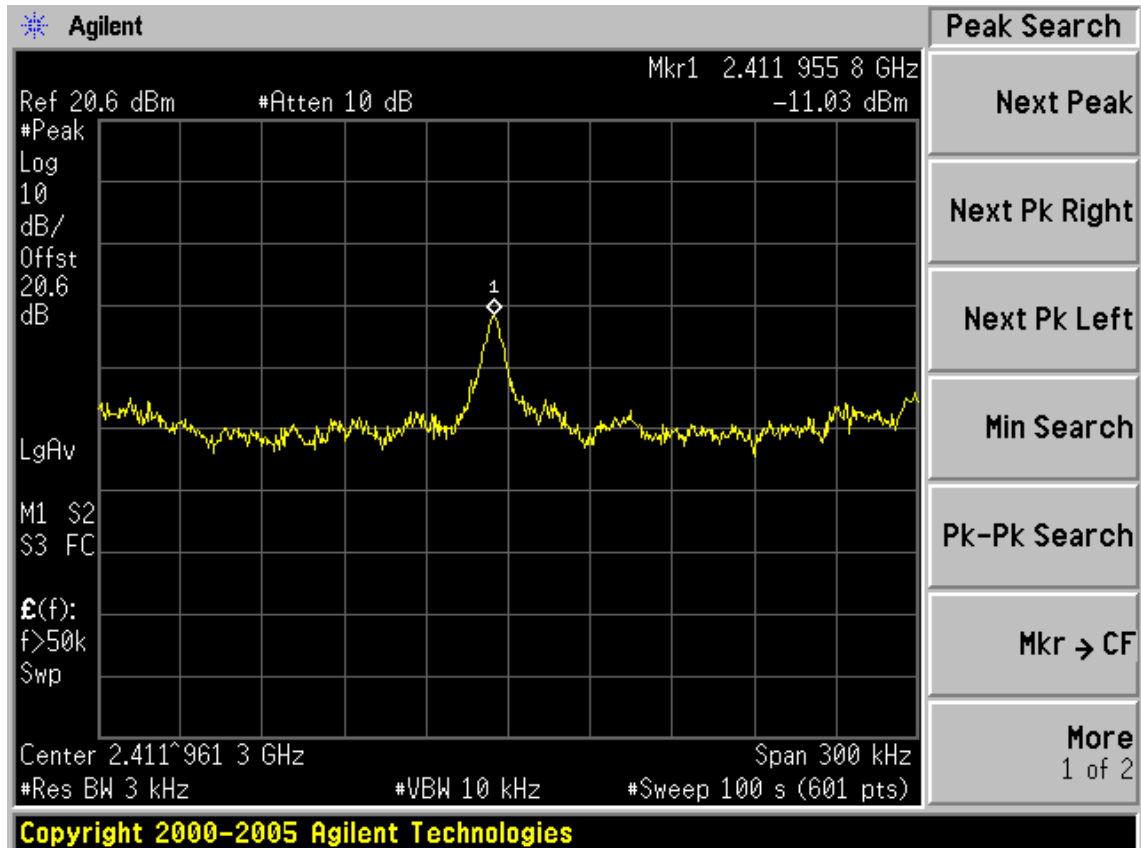


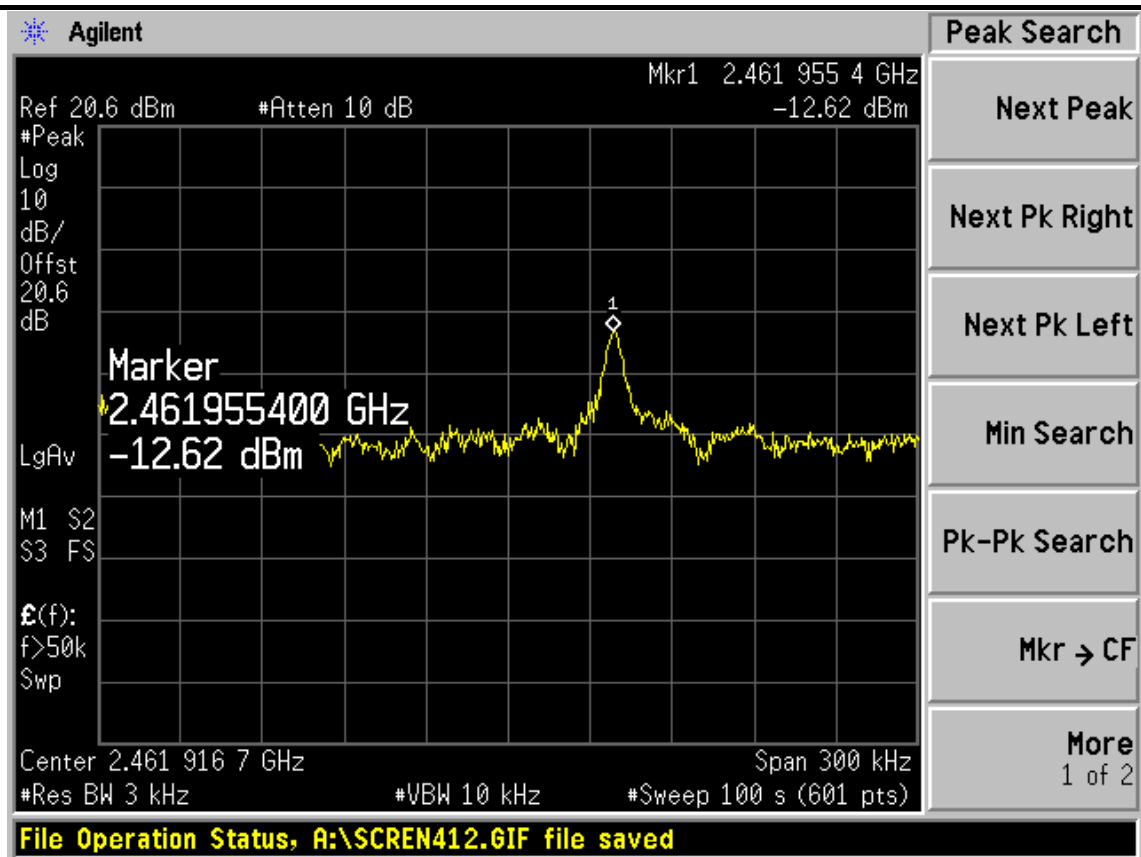
Test Mode: IEEE 802.11g TX



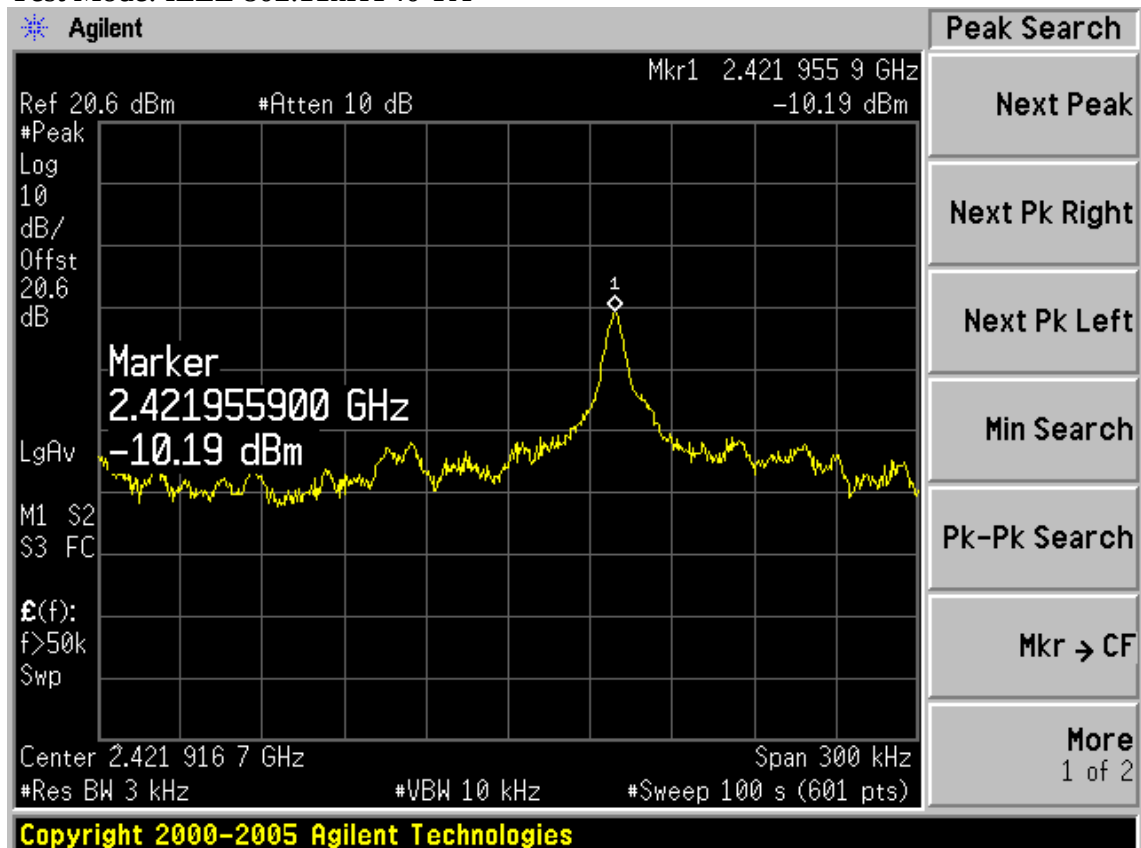


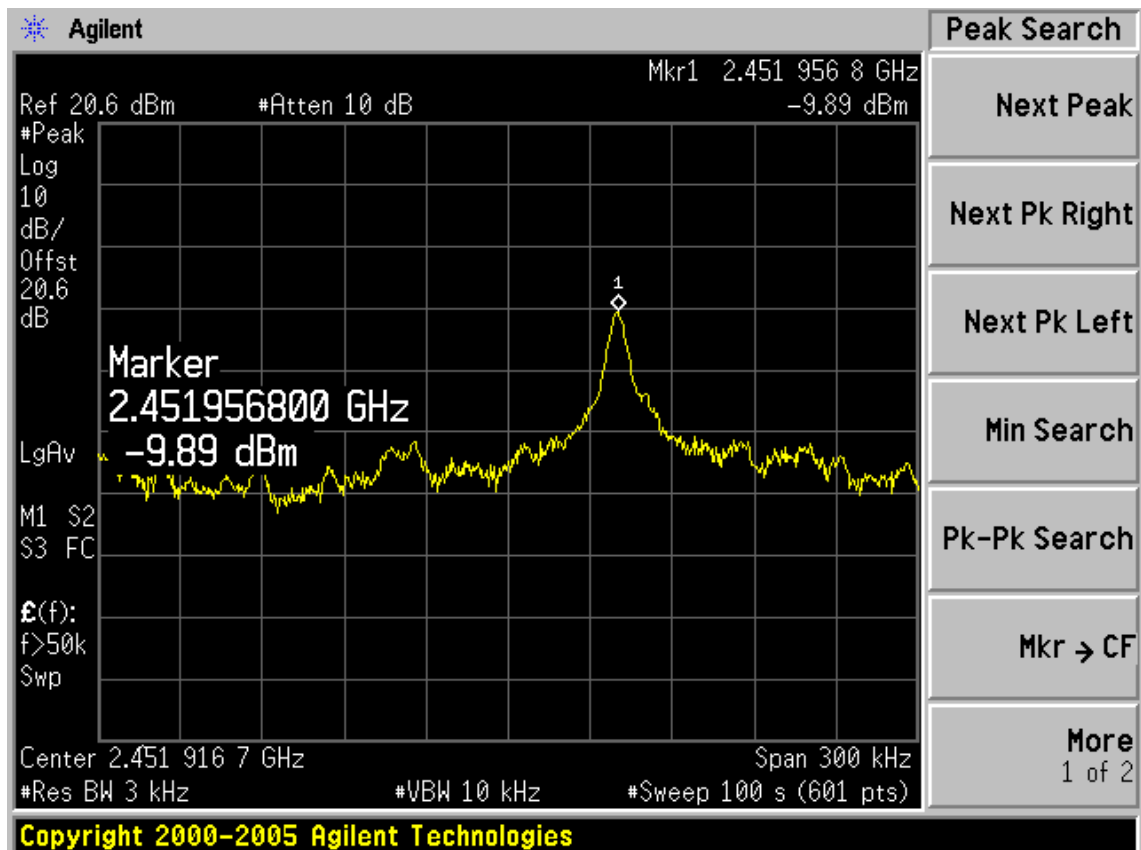
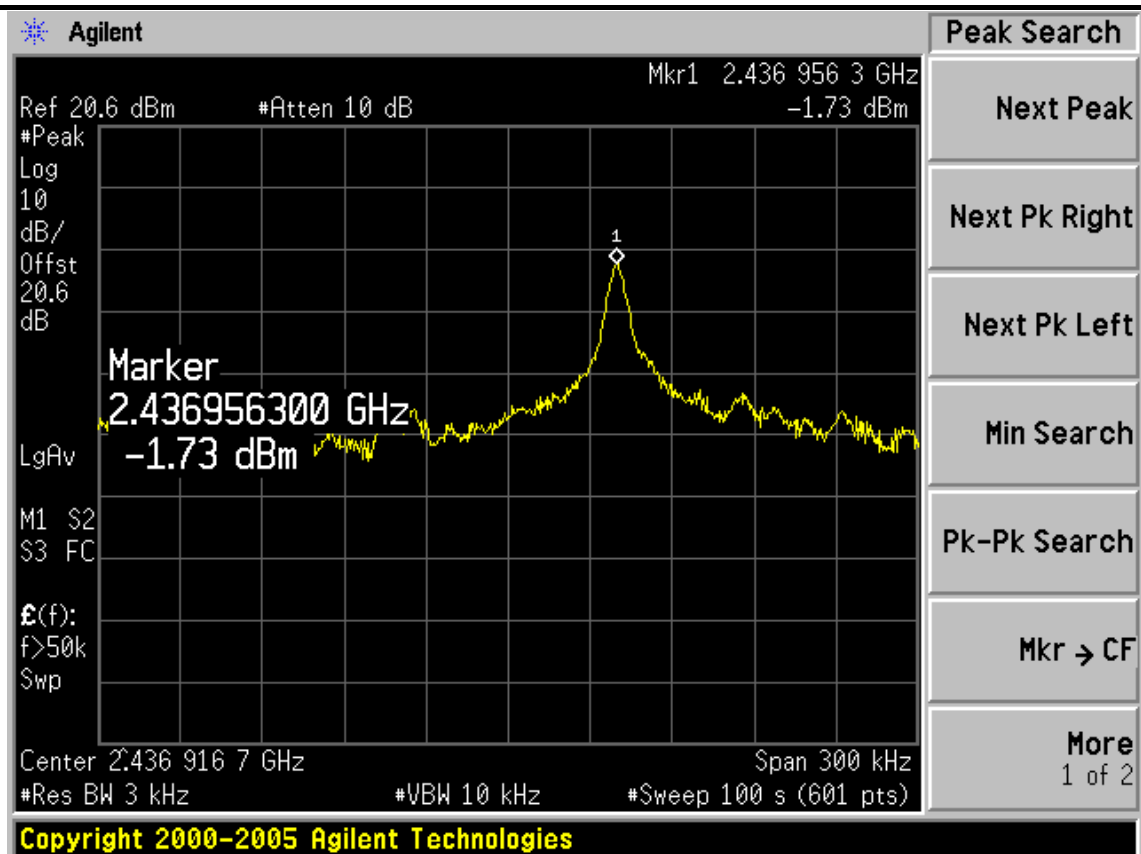
Test Mode: IEEE 802.11nHT20 TX





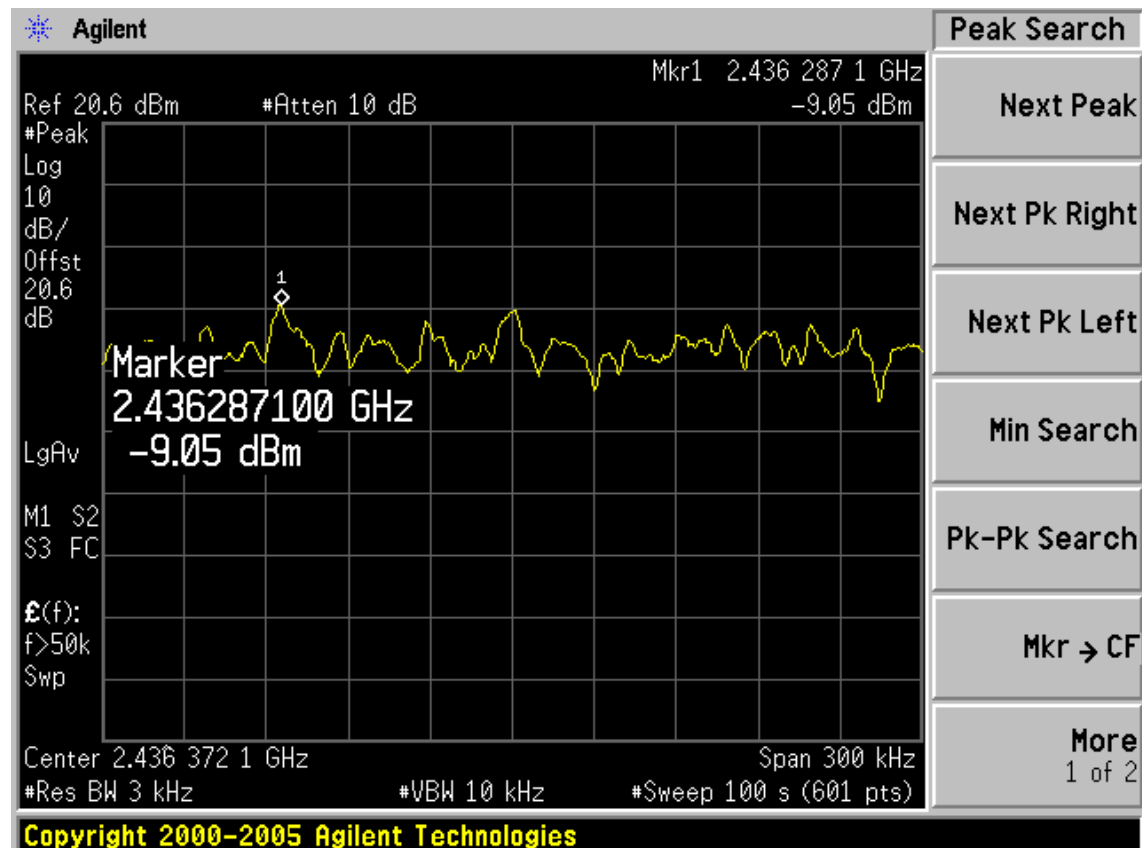
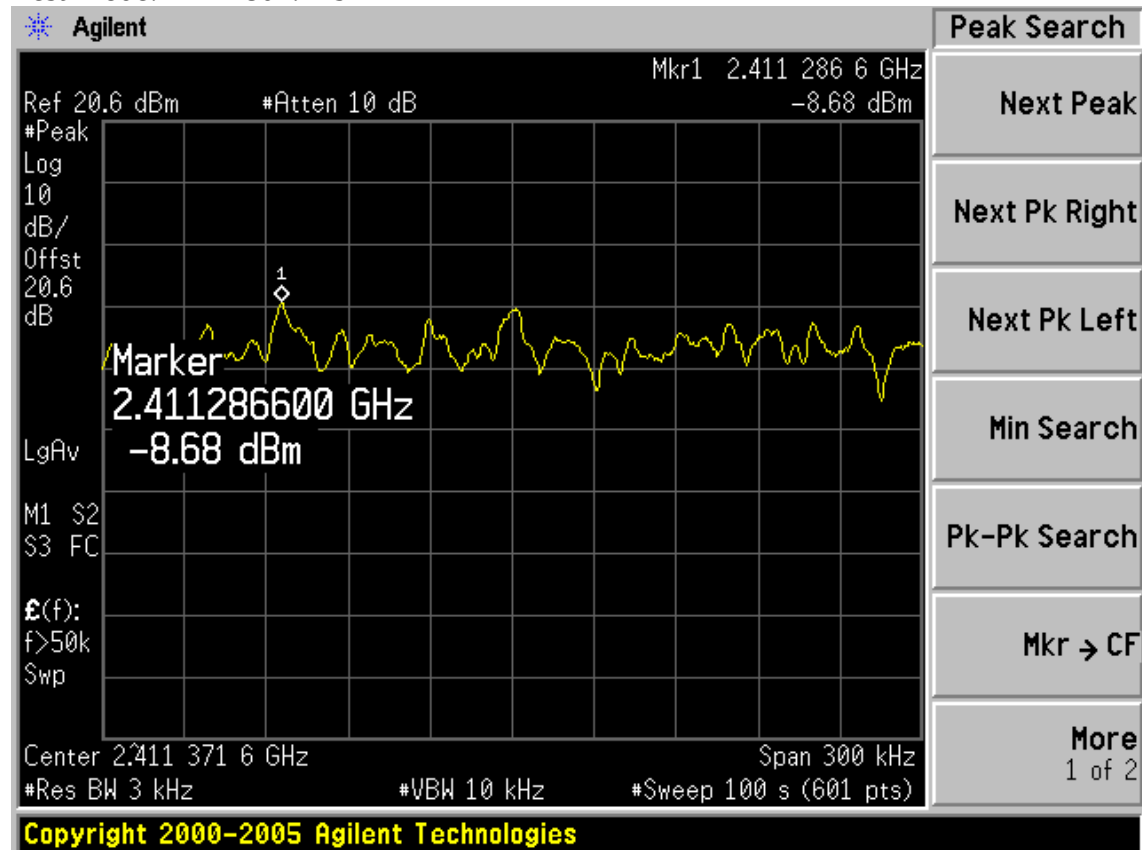
Test Mode: IEEE 802.11nHT40 TX

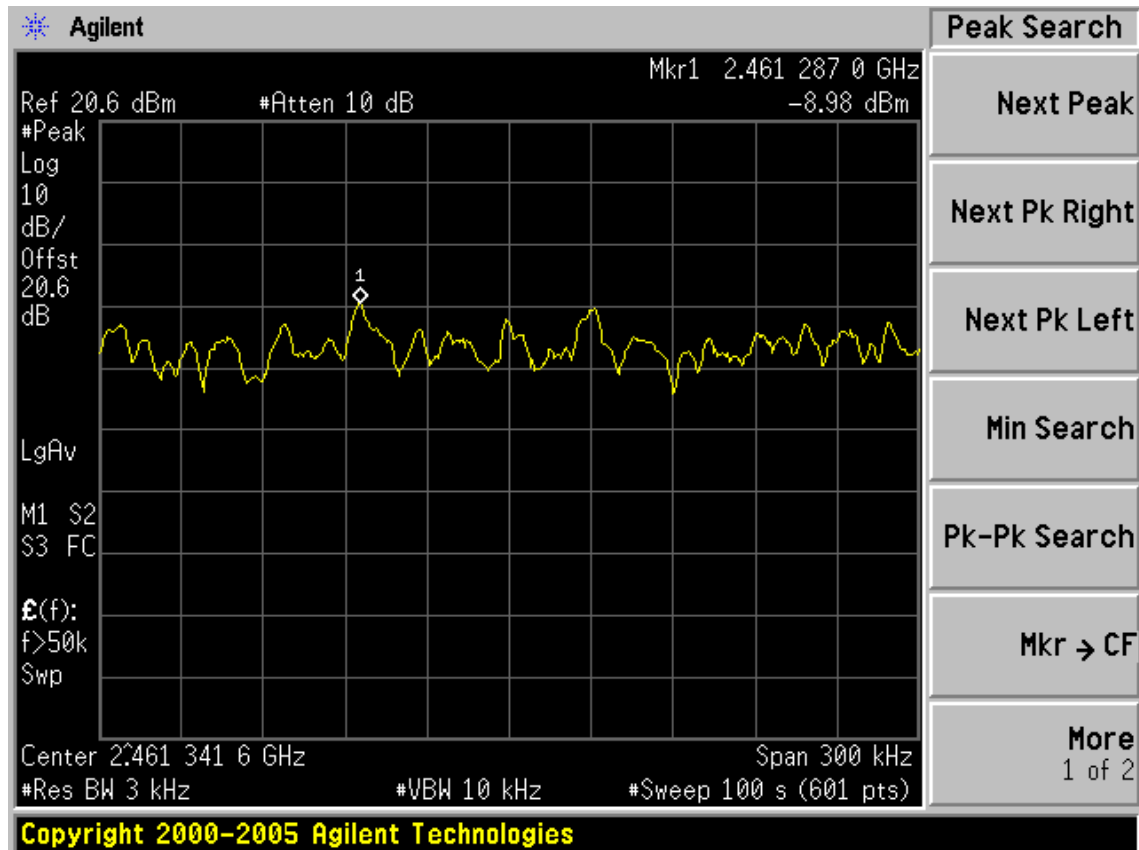




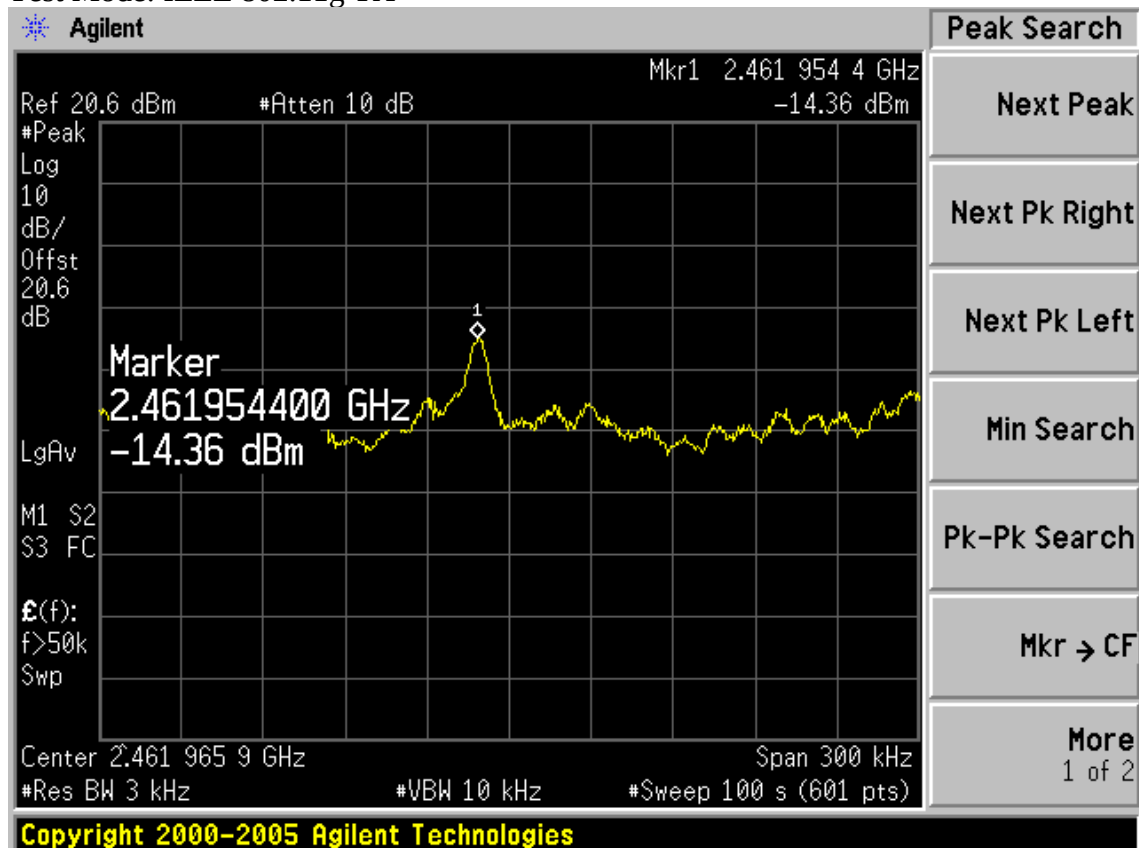
Chain 1

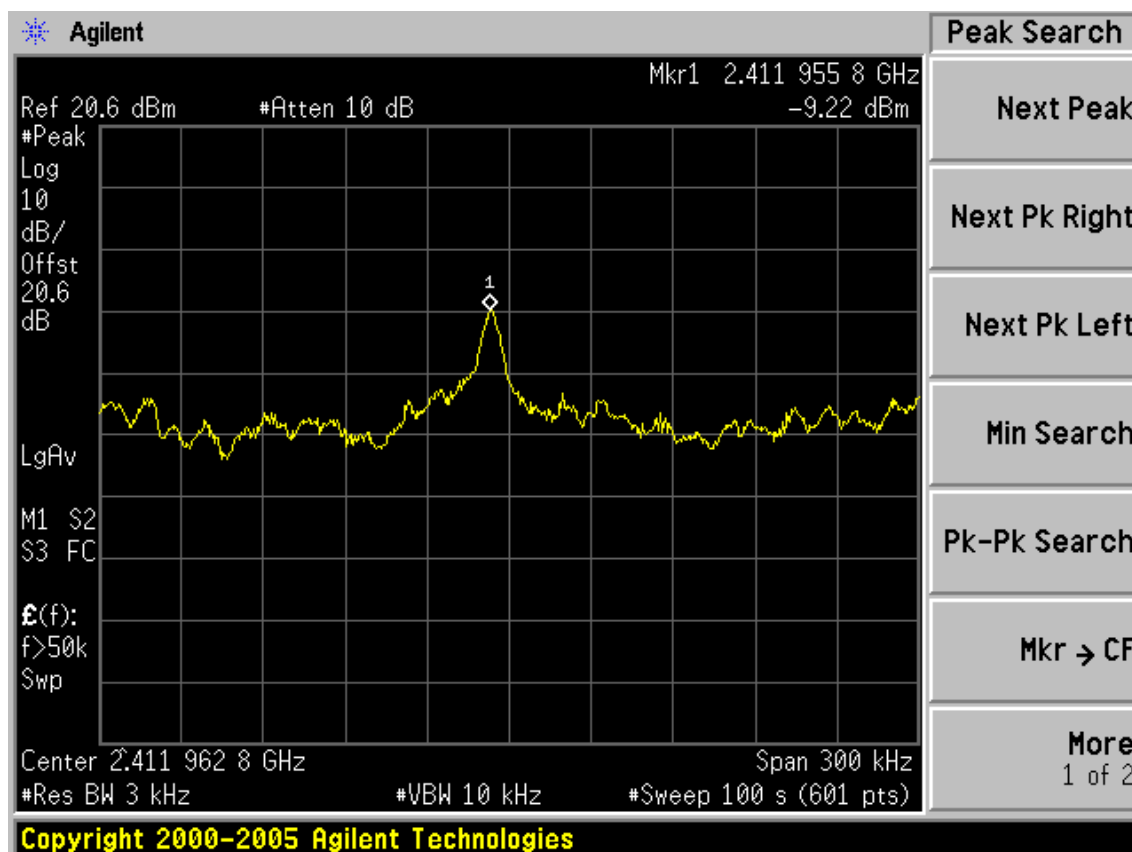
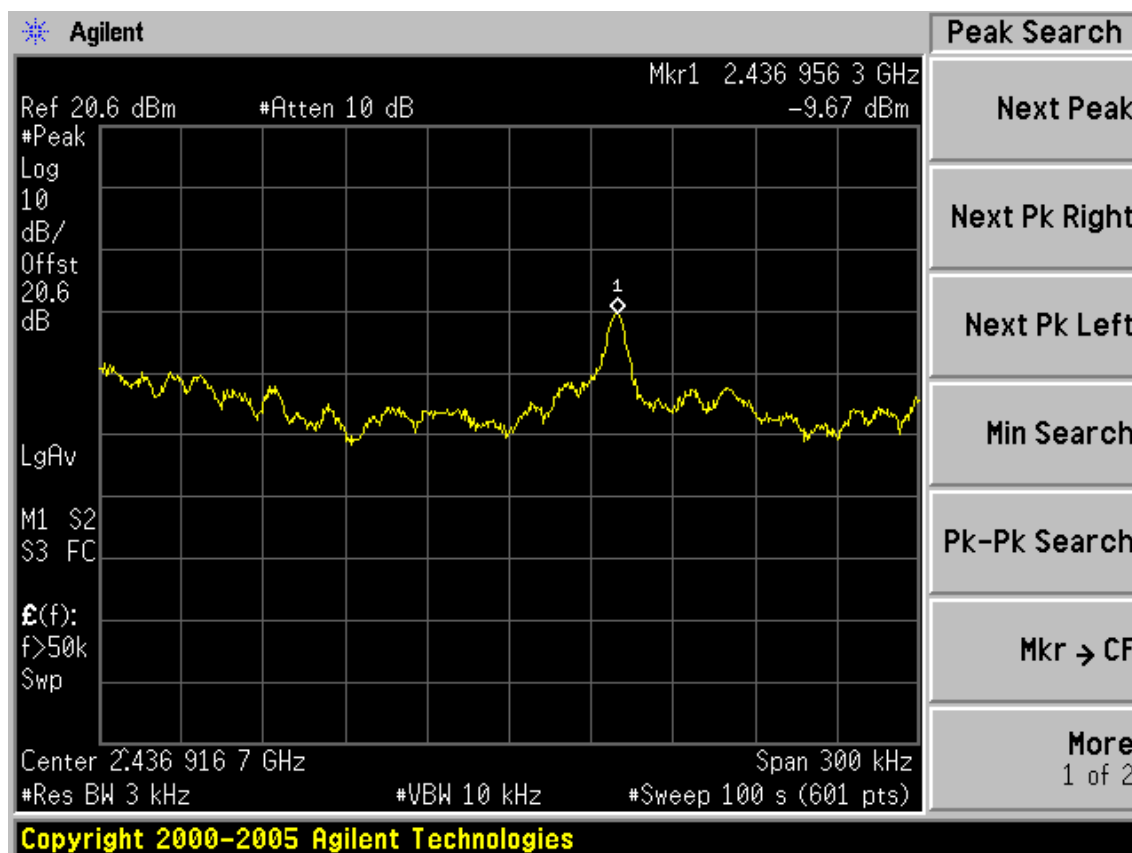
Test Mode: IEEE 802.11b TX



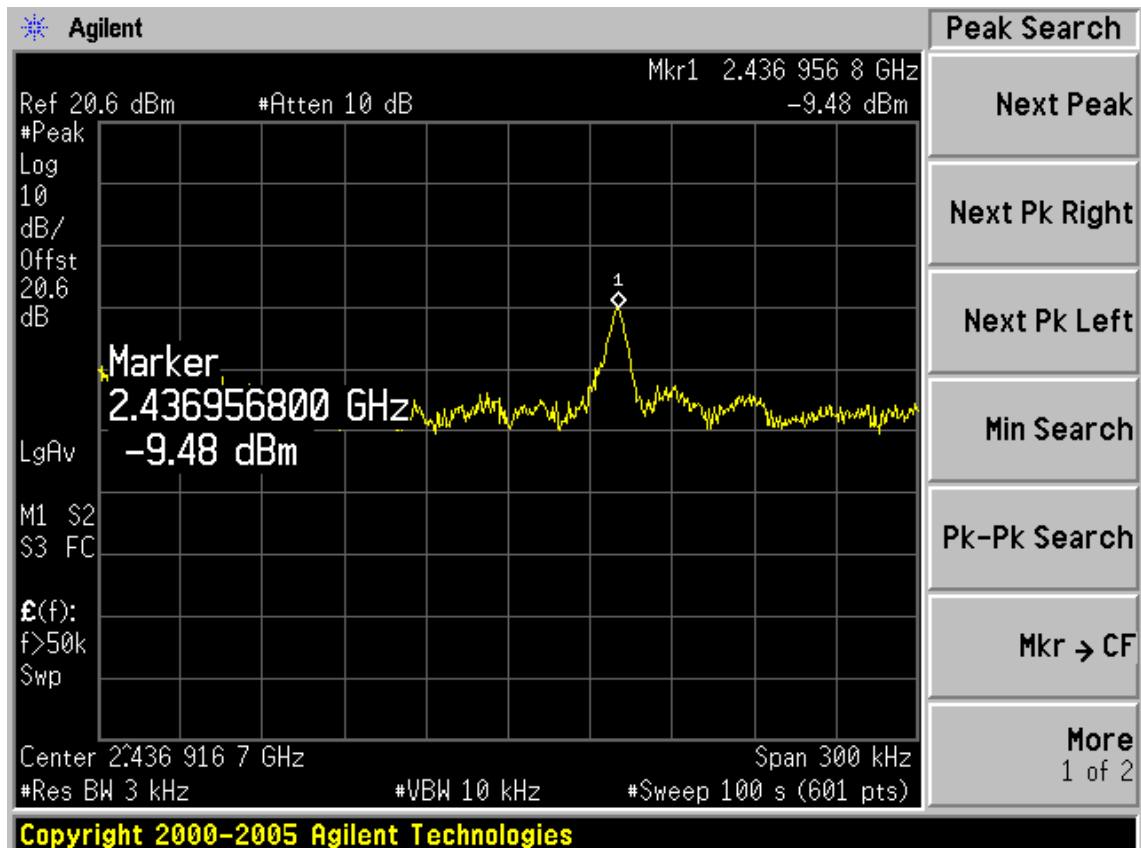
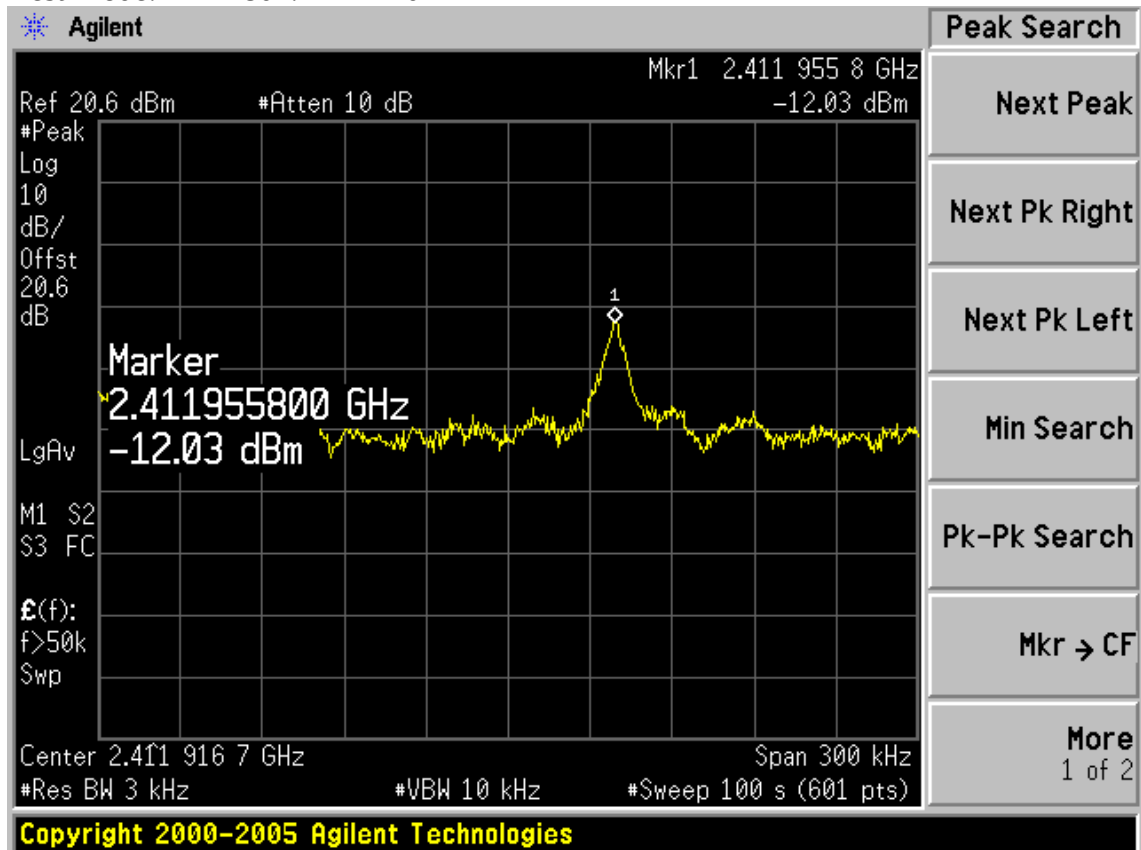


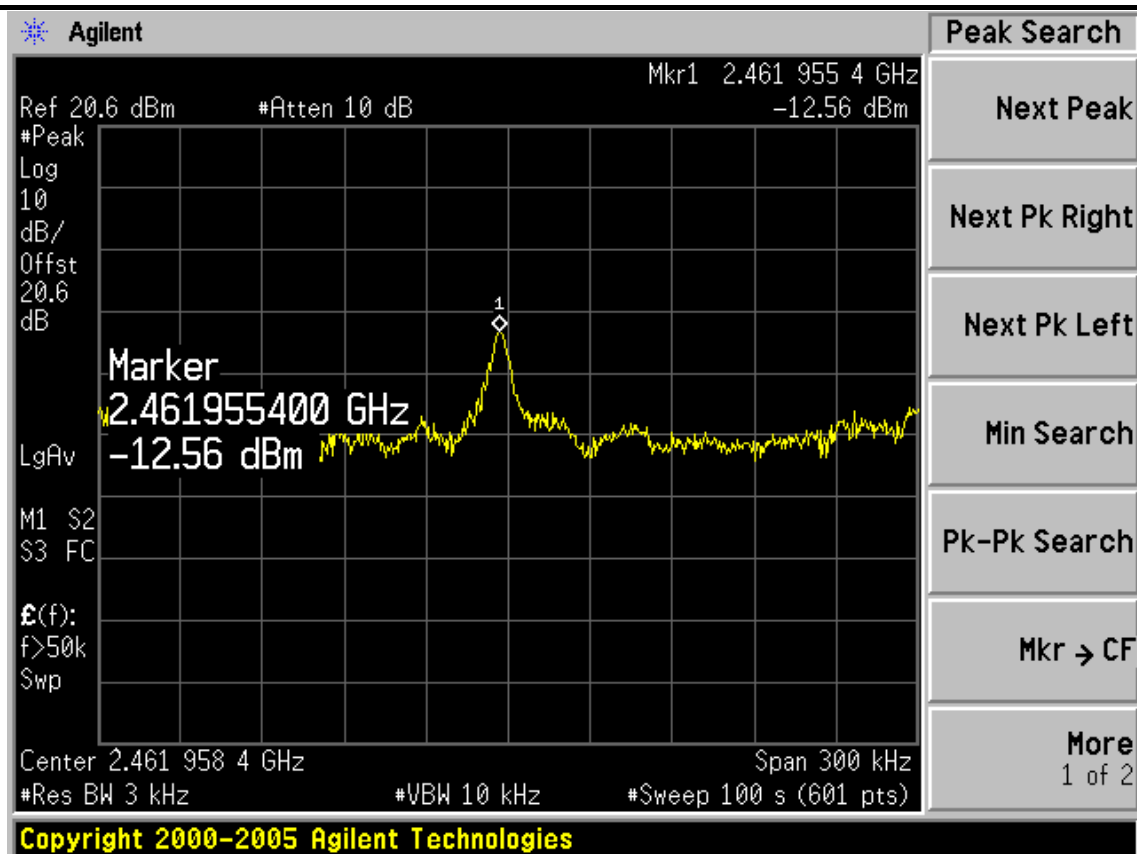
Test Mode: IEEE 802.11g TX



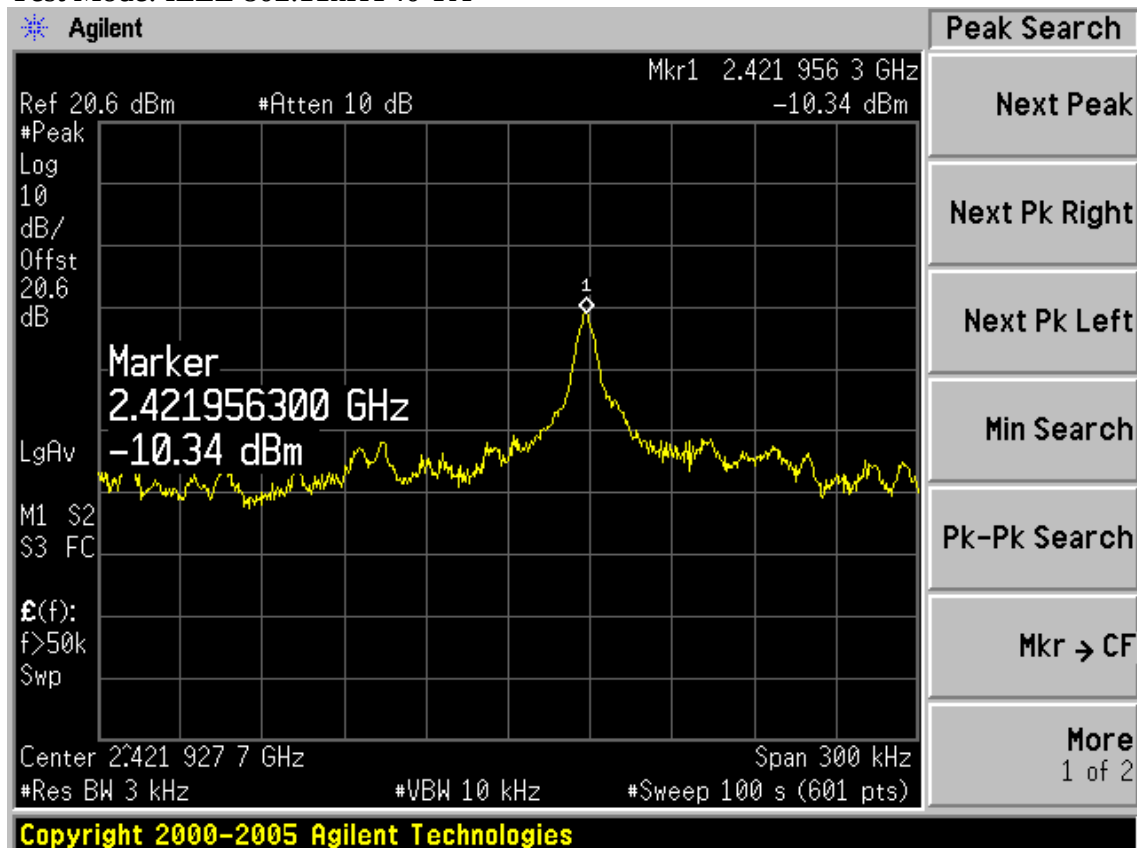


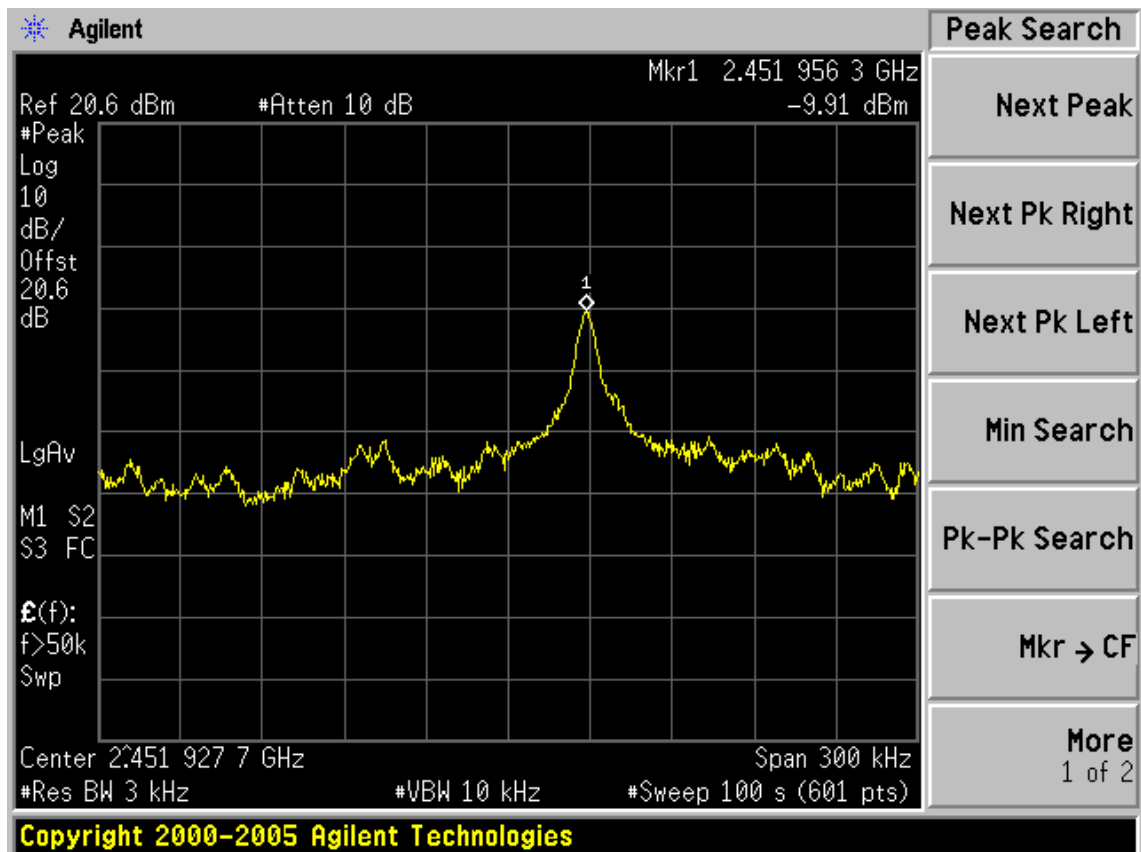
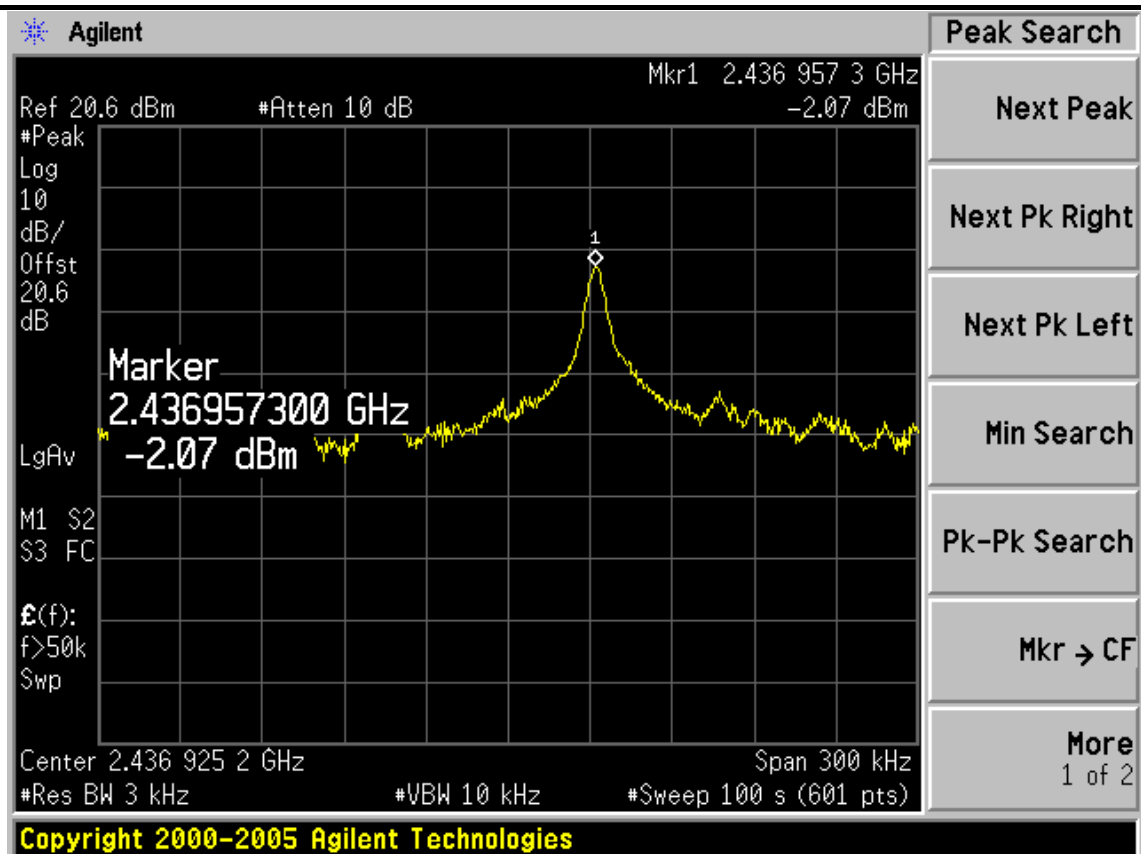
Test Mode: IEEE 802.11nHT20 TX





Test Mode: IEEE 802.11nHT40 TX





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 is integrated MIMO 2x2 Patch antenna and 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 only 2.5dBi.

11.DEVIATION TO TEST SPECIFICATIONS

[NONE]