FCC PART 15C and RSS-210 TEST REPORT FOR CERTIFICATION
On Behalf of

OPPO Digital, Inc

150Mbps Wireless Lite N USB Adapter

Model No.: AK093

FCC ID: YTXAK093

IC: 9323A-AK093

Prepared for : OPPO Digital, Inc
2629 Terminal Blvd. Suite B, Mountain View, CA 94043

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

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Report Number	:	ACS-F10307
Date of Test	:	Oct.26~29, 2010
Date of Report	:	Nov.02, 2010

TABLE OF CONTENTS

TEST REPORT CERTIFICATION

Applicant	:	OPPO Digital, Inc
Manufacturer	:	OPPO Digital, Inc
EUT Description	:	150Mbps Wireless Lite N USB Adapter
FCC ID	:	YTXAK093
IC	:	9323A-AK093

(A) MODEL NO. : AK093
(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, ANSI C63.10:2009
RSS-210, ISSUE 7, June 2007
RSS-Gen, ISSUE 2, June 2007

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to confirm comply with all the FCC Part 15 Subpart C and RSS-210,RSS-GEN requirements.

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

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

Date of Test : Oct.26~ 29, 2010 Report of date: Nov.02,2010

Prepared by : Annie Wu / Supervisor

Reviewer by : Jamy Yu / Supervisor

AUDIX® 信華科技（深圳）有限公司
Audix Technology (Shenzhen) Co., Ltd.
EMC 部門報告專用章
Stamp only for EMC Dept. Report
Signature: Ken Lu 11/5/10

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 RSS-210 ISSUE 7	PASS
Radiated Emission	FCC Part 15: 15.209 ANSI C63.10: 2009 RSS-210 ISSUE 7	PASS
Band Edge Compliance	FCC Part 15: 15.247 ANSI C63.10: 2009 RSS-210 ISSUE 7	PASS
Conducted spurious emissions	FCC Part 15: 15.247 ANSI C63.10: 2009 RSS-210 ISSUE 7	PASS
6dB Bandwidth	FCC Part 15: 15.247 ANSI C63.10: 2009 RSS-210 ISSUE 7	PASS
Peak Output Power	FCC Part 15: 15.247 ANSI C63.10: 2009 RSS-210 ISSUE 7	PASS
Power Spectral Density	FCC Part 15: 15.247 ANSI C63.10: 2009 RSS-210 ISSUE 7	PASS
99% bandwidth	RSS-210 ISSUE 7	PASS
Antenna requirement	FCC Part 15: 15.203 RSS-210 ISSUE 7	PASS

2. GENERAL INFORMATION

2.1.Description of Device (EUT)

Product Name	:	150Mbps Wireless Lite N USB Adapter
Model Number	:	AK093
FCC ID	:	YTXAK093
IC	:	9323A-AK093
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 PCB antenna, 1TX2R 2.12dBi (maximum)
Applicant	:	OPPO Digital, Inc 2629 Terminal Blvd. Suite B, Mountain View, CA 94043
Manufacturer	:	OPPO Digital, Inc 2629 Terminal Blvd. Suite B, Mountain View, CA 94043
Date of Test	:	Oct.26~29, 2010
Date of Receipt	:	Oct.25, 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 (Mpbs)(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	65	Low :CH1	2412
	65	Middle: CH6	2437
	65	High: CH11	2462
IEEE 802.11n HT40	162	Low :CH1	2422
	162	Middle: CH4	2437
	162	High: CH7	2452
Note: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.			

2.3.Data VS Power

Mode	Data rate (Mbps)	CH	AV Power (dBm)	PK Power (dBm)
11b	1	CH1	16.95	18.40
	2	CH1	16.90	18.42
	5.5	CH1	16.89	18.47
	11	CH1	16.88	18.49
11g	6	CH1	15.42	23.49
	9	CH1	15.39	23.51
	12	CH1	15.38	23.53
	18	CH1	15.34	23.55
	24	CH1	15.35	23.57
	36	CH1	15.30	23.59
	48	CH1	15.29	23.60
	54	CH1	15.27	23.62
11n HT20	6.5	CH1	14.99	23.67
	13	CH1	14.95	23.65
	19.5	CH1	14.96	23.69
	26	CH1	14.92	23.71
	39	CH1	14.94	23.74
	52	CH1	14.91	23.76
	58.5	CH1	14.92	23.74
	65	CH1	14.89	23.80
11n HT40	13.5	CH1	8.76	16.10
	27	CH1	8.72	16.14
	40.5	CH1	8.70	16.18
	54	CH1	8.69	16.17
	81	CH1	8.67	16.13
	108	CH1	8.64	16.19
	121.5	CH1	8.60	16.09
	135	CH1	8.55	16.20
	162	CH1	8.53	16.21

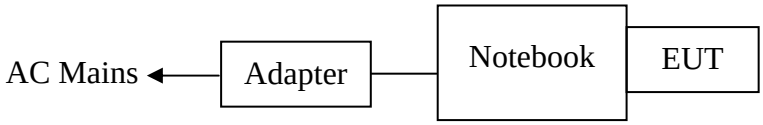
Mode	Data rate (Mbps)	CH	AV Power (dBm)	PK Power (dBm)
11b	1	CH6	17.56	18.79
	2	CH6	17.52	18.82
	5.5	CH6	17.49	18.84
	11	CH6	17.45	18.86
11g	6	CH6	17.68	24.89
	9	CH6	17.69	24.87
	12	CH6	17.59	24.96
	18	CH6	17.62	24.98
	24	CH6	17.54	25.00
	36	CH6	17.53	24.97
	48	CH6	17.50	25.01
	54	CH6	17.49	25.04
11n HT20	6.5	CH6	17.64	25.06
	13	CH6	17.60	25.10
	19.5	CH6	17.56	25.14
	26	CH6	17.54	25.18
	39	CH6	17.50	25.20
	52	CH6	17.52	25.19
	58.5	CH6	17.46	25.24
	65	CH6	17.41	25.26
11n HT40	13.5	CH4	13.59	21.20
	27	CH4	13.54	21.26
	40.5	CH4	13.49	21.29
	54	CH4	13.45	21.27
	81	CH4	13.39	21.34
	108	CH4	13.34	21.39
	121.5	CH4	13.30	21.30
	135	CH4	13.46	21.23
	162	CH4	13.37	21.38

Mode	Data rate (Mbps)	CH	AV Power (dBm)	PK Power (dBm)
11b	1	CH11	17.95	19.15
	2	CH11	17.92	19.18
	5.5	CH11	17.86	19.21
	11	CH11	17.82	19.24
11g	6	CH11	17.21	24.59
	9	CH11	17.19	24.46
	12	CH11	17.20	24.62
	18	CH11	17.15	24.63
	24	CH11	17.13	24.74
	36	CH11	17.10	24.68
	48	CH11	17.06	24.73
	54	CH11	16.99	24.78
11n HT20	6.5	CH11	16.68	24.26
	13	CH11	16.64	24.30
	19.5	CH11	16.61	24.35
	26	CH11	16.59	24.39
	39	CH11	16.54	24.42
	52	CH11	16.50	24.40
	58.5	CH11	16.48	24.43
	65	CH11	16.44	24.49
11n HT40	13.5	CH7	9.89	17.58
	27	CH7	9.85	17.62
	40.5	CH7	9.81	17.65
	54	CH7	9.78	17.60
	81	CH7	9.80	17.69
	108	CH7	9.73	17.75
	121.5	CH7	9.70	17.79
	135	CH7	9.68	17.84
	162	CH7	9.74	17.73

2.4.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, Detachabled, 1.8m Power Adapter: Manufacturer: DELL, M/N: LA65NS1-00 Cable: Unshielded, Detachabled, 4.0m(Bond one ferrite core)				

2.5. Block diagram of connection between the EUT and simulators



(EUT: 150Mbps Wireless Lite N USB Adapter)

2.6. 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

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

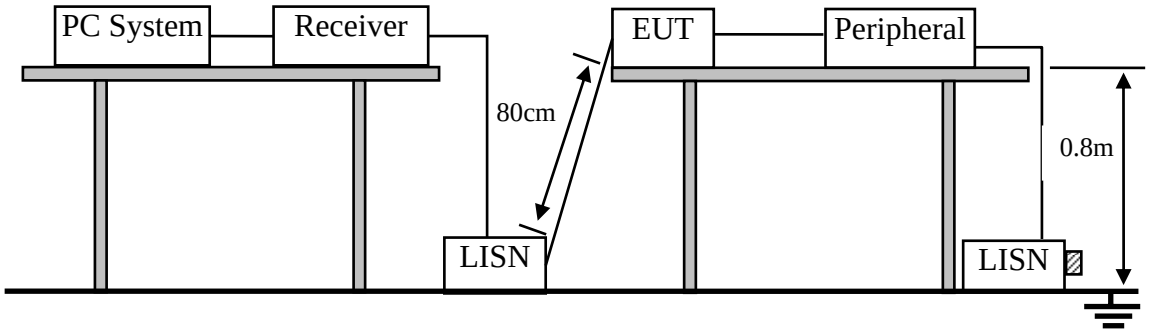
Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	3.64 dB (9kHz to 150kHz
	3.22 dB(150kHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	4.20 dB (Polarize: V)
	4.66 dB (Polarize: H)
Uncertainty for Radiated Spurious Emission test in RF chamber	2.70 dB(Bilog 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	$1x10^{-9}$
Uncertainty for Bandwidth test	$1x10^{-9}$
Uncertainty for DC power test	0.038 %
Uncertainty for test site temperature and humidity	0.3℃
	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.	RF Cable	Fujikura	3D-2W	LISN Cable 1#	May.08, 10	1Year
5.	Coaxial Switch	Anritsu	MP59B	M55367	May.08, 10	1 Year
6.	Passive Probe	Rohde & Schwarz	ESH2-Z3	299.7810.52	May.08, 10	1 Year
7.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100341	May.08, 10	1 Year

3.2.Block Diagram of Test Setup



▨ :50Ω Terminator

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.

3.4.1.150Mbps Wireless Lite N USB Adapter (EUT)

Model Number : AK093
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

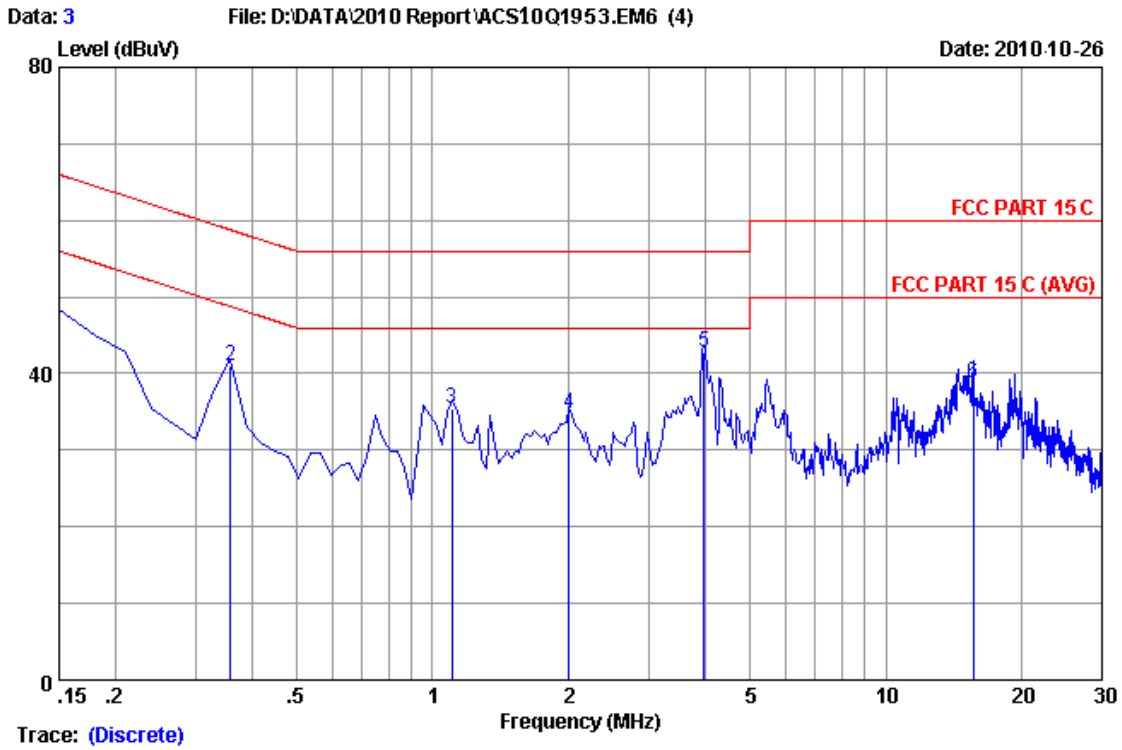
The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power Via Notebook connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs).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

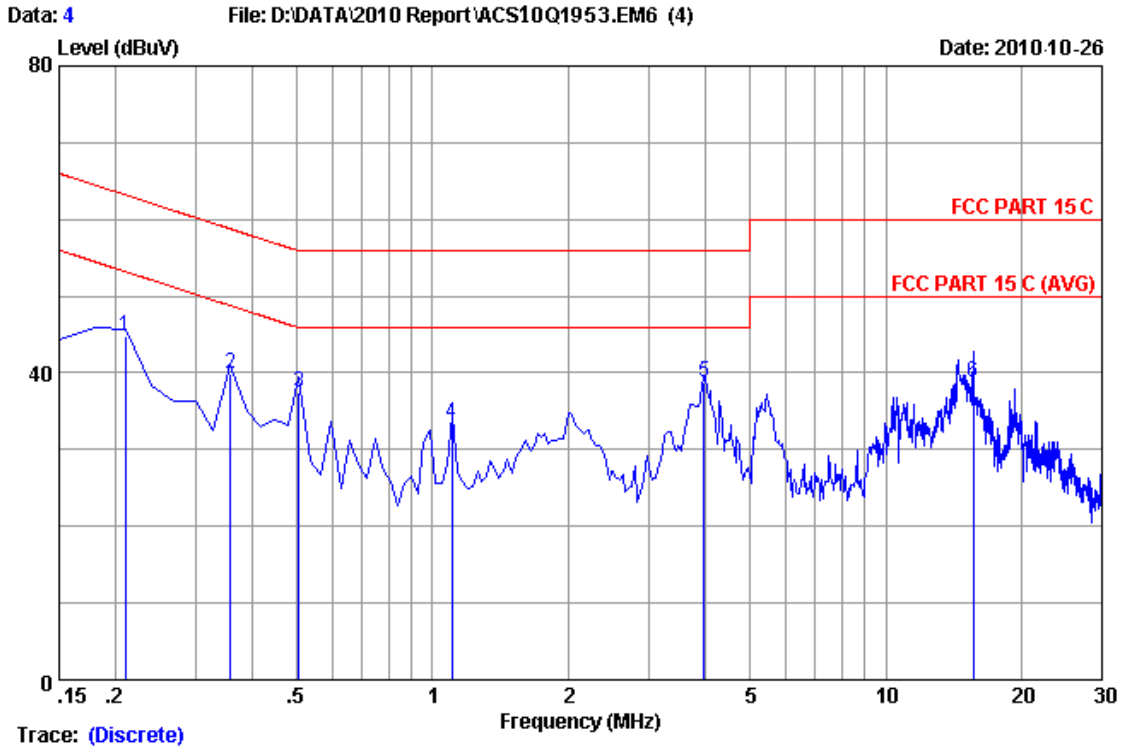


Trace: (Discrete)

Site no :Audix No.1 Conduction Data no :3
Dis./Ant. :** 2009 KNW407 VA
Limit :FCC PART 15 C
Env./Ins. :Temp:23'C Humi:54% Engineer :Paul Tian
EUT :150Mbps Wireless Lite N USB Adapter
Power Rating :DC 5V From PC Input AC 120V/60Hz
Test Mode :Tx Mode
M/N :AK093

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15000	0.20	9.88	37.17	47.25	66.00	18.75	QP
2	0.35895	0.20	9.89	30.85	40.94	58.75	17.81	QP
3	1.105	0.19	9.89	25.38	35.46	56.00	20.54	QP
4	2.001	0.21	9.90	24.62	34.73	56.00	21.27	QP
5	3.971	0.27	9.91	32.58	42.76	56.00	13.24	QP
6	15.612	0.34	9.97	28.45	38.76	60.00	21.24	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading
2.If the average limit is met when useing 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 :4
Dis./Ant. :** 2009 KNW407 VB
Limit :FCC PART 15 C
Env./Ins. :Temp:23'C Humi:54% Engineer :Paul Tian
EUT :150Mbps Wireless Lite N USB Adapter
Power Rating :DC 5V From PC Input AC 120V/60Hz
Test Mode :Tx Mode
M/N :AK093

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.20970	0.20	9.88	34.60	44.68	63.22	18.54	QP
2	0.35895	0.20	9.89	29.85	39.94	58.75	18.81	QP
3	0.50820	0.20	9.89	27.29	37.38	56.00	18.62	QP
4	1.105	0.19	9.89	23.38	33.46	56.00	22.54	QP
5	3.971	0.27	9.91	28.58	38.76	56.00	17.24	QP
6	15.612	0.34	9.97	28.45	38.76	60.00	21.24	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading
2.If the average limit is met when useing 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

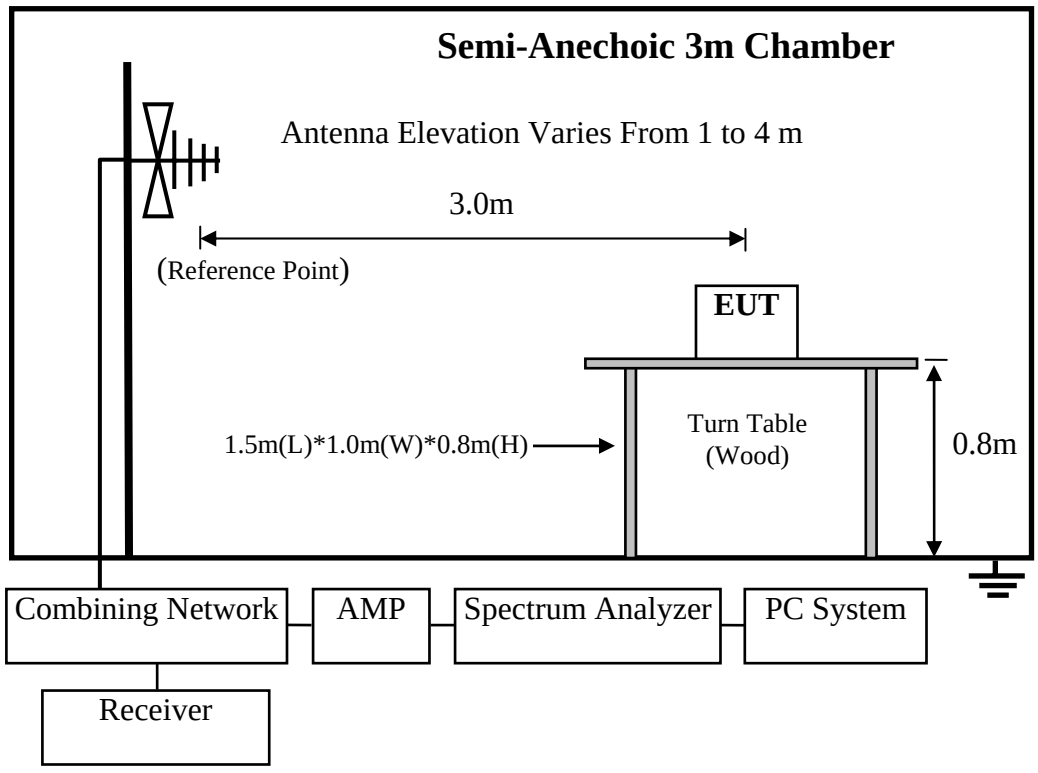
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	3#Chamber	AUDIX	N/A	N/A	Dec.05,09	1 Year
2	EMI Spectrum	Agilent	E4407B	MY41440292	May.08, 10	1 Year
3	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May.08, 10	1 Year
4	Amplifier	HP	8447D	2648A04738	May.08, 10	1 Year
5	Bilog 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

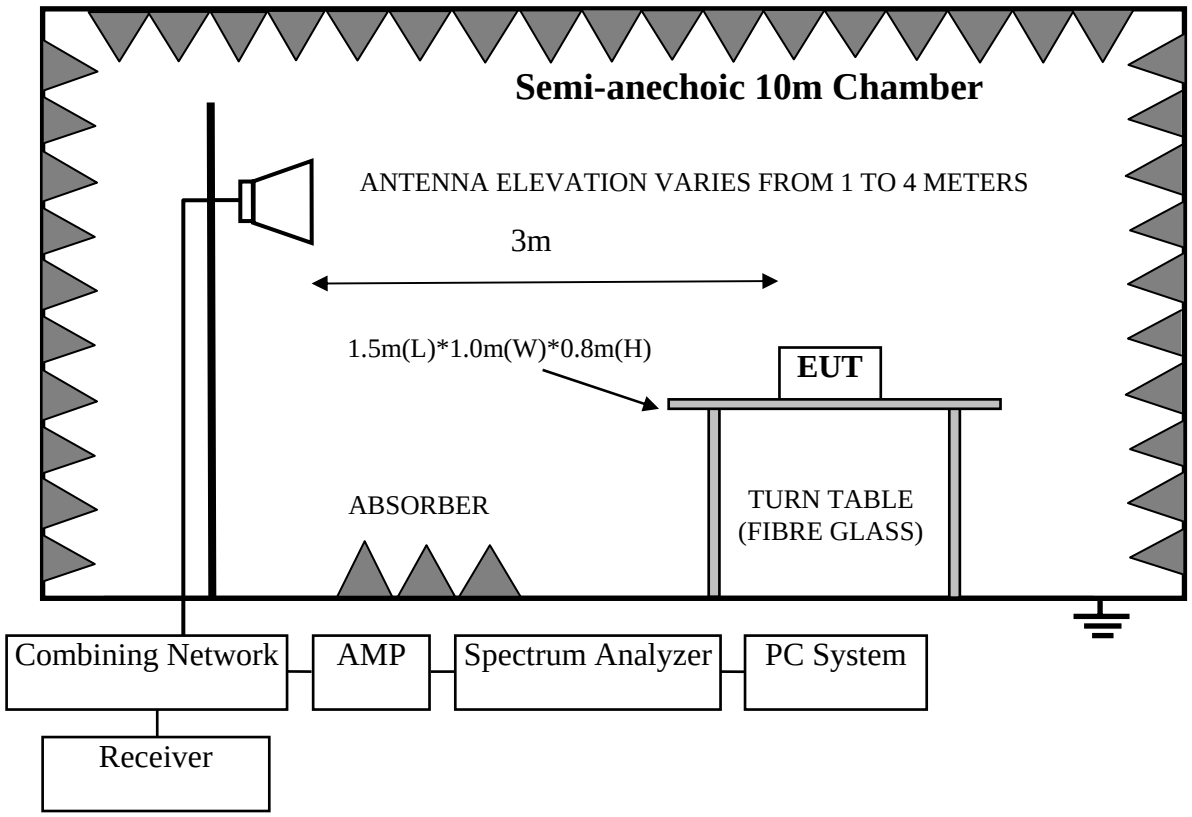
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08, 10	1 Year
2	Horn Antenna	EMCO	3115	9607-4877	Nov.25, 09	1.5 Year
3	Horn Antenna	EMCO	3116	00060089	Nov.25, 09	1.5 Year
4	Amplifier	Agilent	8449B	3008A00863	May.08, 10	1 Year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



For frequency range 1GHz-18GHz



4.3.Radiated Emission Limit

4.3.1.15.209 limits

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

Remark： (1) Emission level dBμV = 20 log Emission level μV/m

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

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

4.3.2.15.205 Restricted bands of operation

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

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

4.4.EUT Configuration on Test

The configurations of EUT are listed in Section 3.5.

4.5.Operating Condition of EUT

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

4.6.Test Procedure

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

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

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

The frequency range from 30MHz to 10^{th} 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.

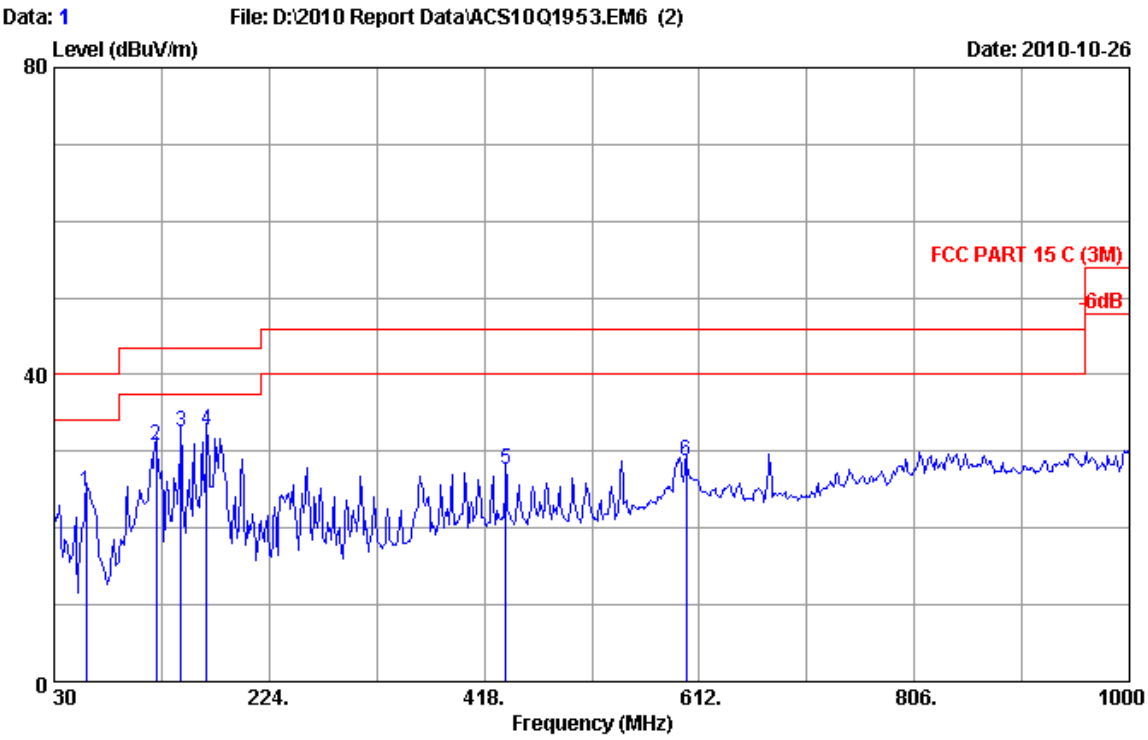
4.7. Radiated Emission Test Results

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.

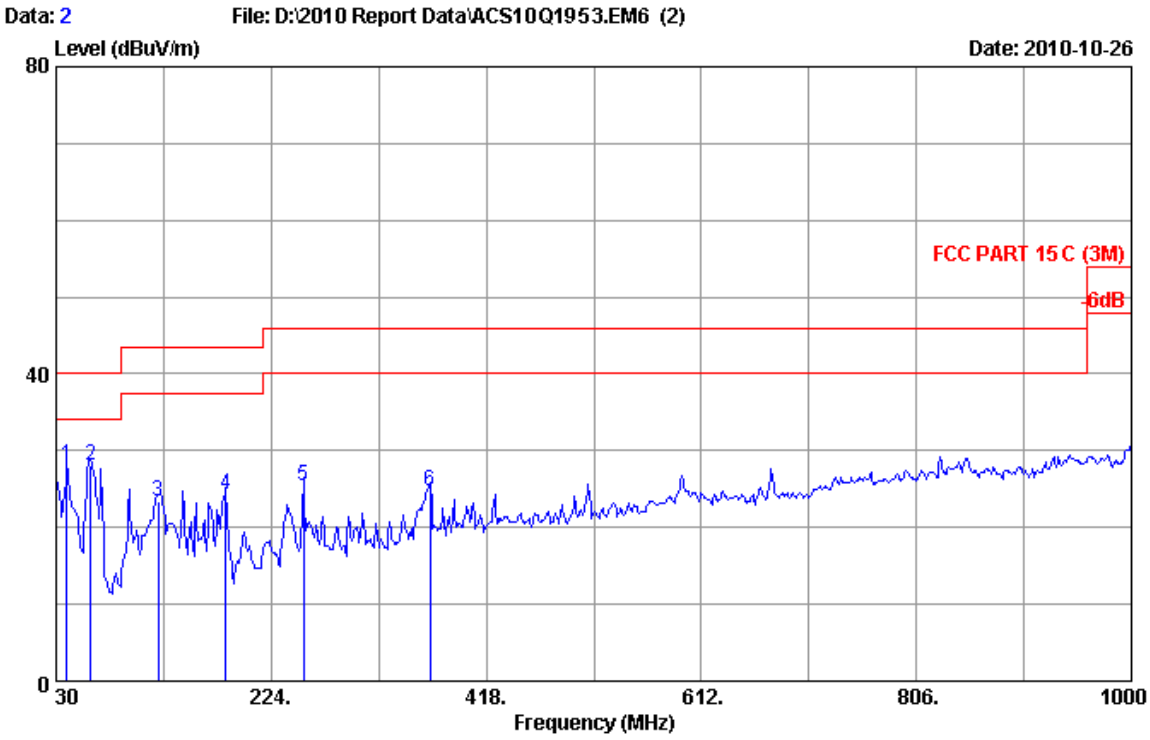
Frequency: 30MHz~1GHz



Site no. : 3m Chamber Data no. : 1
Dis. / Ant. : 3m CBL6111C Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 24*C/56% Engineer : Paul Tian
EUT : 150Mbps Wireless Lite N USB Adapter
Power Rating : DC 5V from PC input AC 120V/60Hz
Test Mode : Tx Mode
M/N : AK093

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	59.100	6.10	0.52	18.12	24.74	40.00	15.26	QP
2	122.150	11.87	0.84	18.12	30.83	43.50	12.67	QP
3	144.460	11.78	0.94	19.72	32.44	43.50	11.06	QP
4	167.740	10.33	0.97	21.37	32.67	43.50	10.83	QP
5	437.400	16.90	1.97	8.69	27.56	46.00	18.44	QP
6	600.360	19.47	2.44	6.75	28.66	46.00	17.34	QP

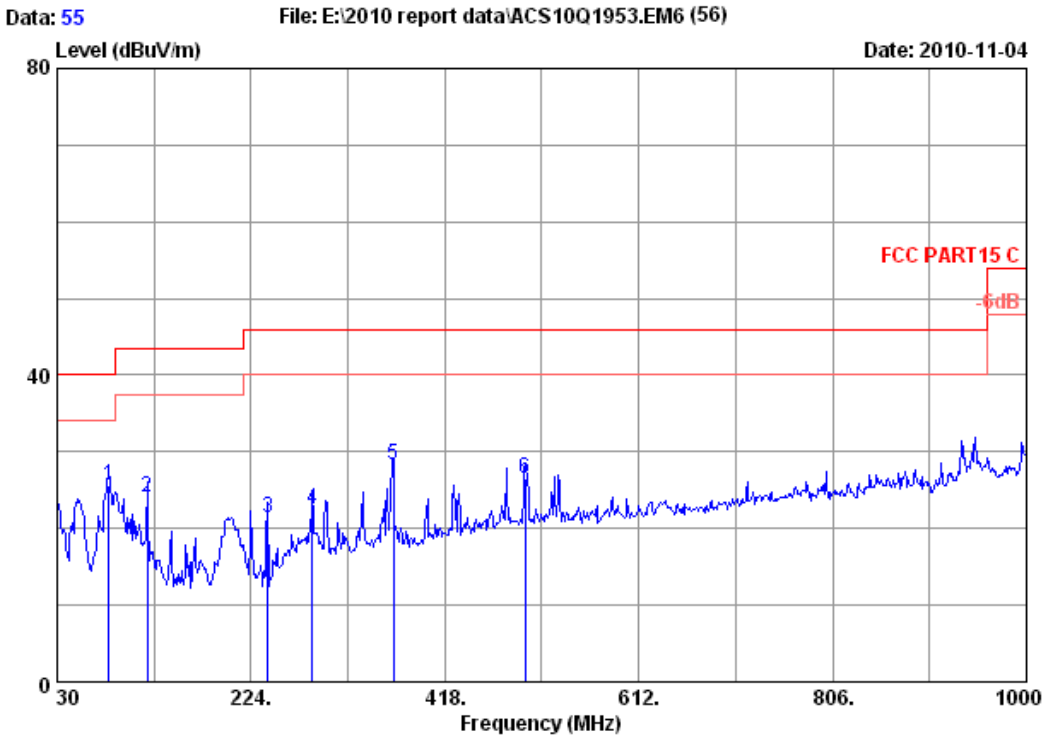
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 2
Dis. / Ant. : 3m CBL6111C Ant. pol. : VERTICAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 24*C/56% Engineer : Paul Tian
EUT : 150Mbps Wireless Lite N USB Adapter
Power Rating : DC 5V from PC input AC 120V/60Hz
Test Mode : Tx Mode
M/N : AK093

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	39.700	14.41	0.35	13.24	28.00	40.00	12.00	QP
2	61.040	5.90	0.50	21.63	28.03	40.00	11.97	QP
3	122.150	11.87	0.84	10.58	23.29	43.50	20.21	QP
4	183.260	9.37	1.07	13.85	24.29	43.50	19.21	QP
5	253.100	12.96	1.48	11.01	25.45	46.00	20.55	QP
6	367.560	15.41	1.78	7.66	24.85	46.00	21.15	QP

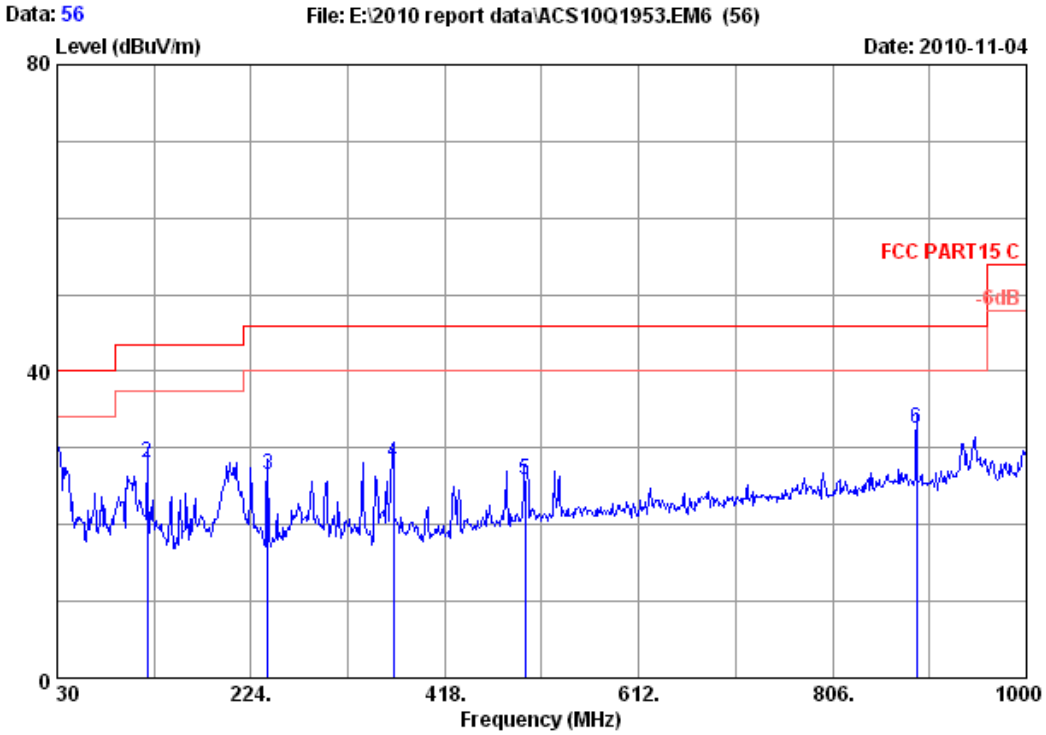
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 55
Dis. / Ant. : 3m 2768(200912) Ant. pol. : HORIZONTAL
Limit : FCC PART15 C
Env. / Ins. : 23*C/54% Engineer : Paul Tian
EUT : 150Mbps Wireless lite N USB Adapter
Power Rating : DC 5V From PC input AC 120V/60Hz
Test mode : Rx Mode
M/N : AK093

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	81.410	7.80	1.38	16.42	25.60	40.00	14.40	QP
2	120.210	11.80	1.64	10.66	24.10	43.50	19.40	QP
3	240.490	11.70	2.29	7.33	21.32	46.00	24.68	QP
4	285.110	13.40	2.50	6.57	22.47	46.00	23.53	QP
5	366.590	15.53	2.83	9.85	28.21	46.00	17.79	QP
6	498.510	18.17	3.28	5.04	26.49	46.00	19.51	QP

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

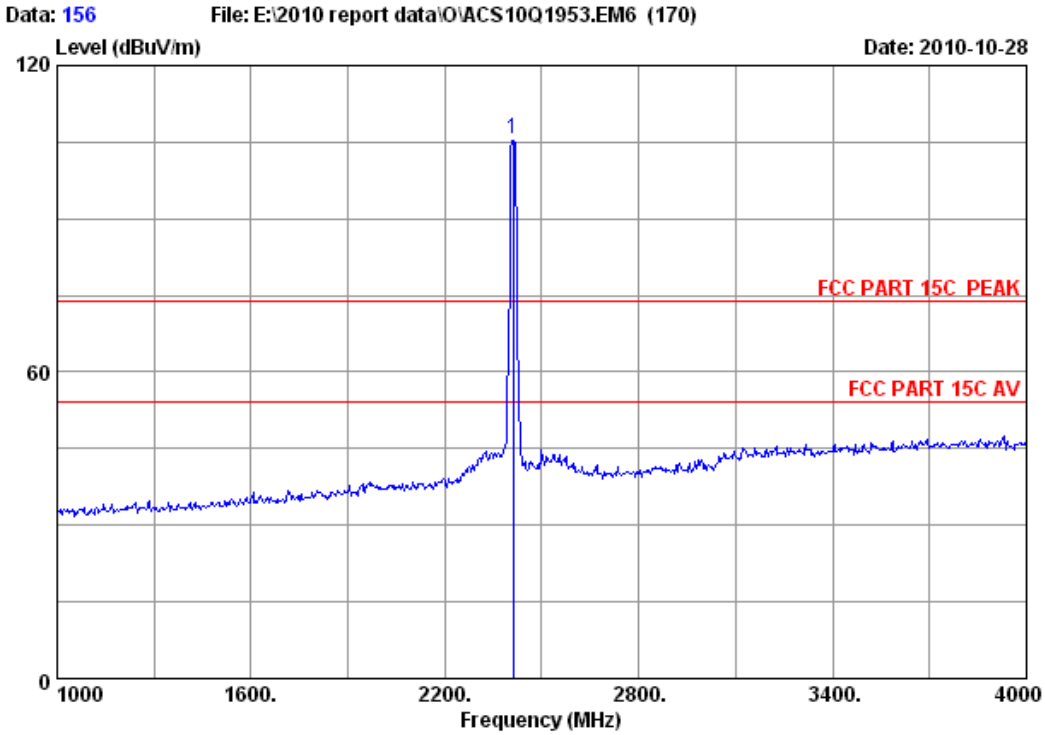


Site no. : 3m Chamber Data no. : 56
Dis. / Ant. : 3m 2768(200912) Ant. pol. : HORIZONTAL
Limit : FCC PART15 C
Env. / Ins. : 23*C/54% Engineer : Paul Tian
EUT : 150Mbps Wireless lite N USB Adapter
Power Rating : DC 5V From PC input AC 120V/60Hz
Test mode : Rx Mode
M/N : AK093

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.000	19.80	0.81	7.74	28.35	40.00	11.65	QP
2	120.210	11.80	1.64	14.62	28.06	43.50	15.44	QP
3	240.490	11.70	2.29	12.42	26.41	46.00	19.59	QP
4	366.590	15.53	2.83	9.65	28.01	46.00	17.99	QP
5	498.510	18.17	3.28	4.48	25.93	46.00	20.07	QP
6	890.390	22.80	4.41	5.31	32.52	46.00	13.48	QP

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

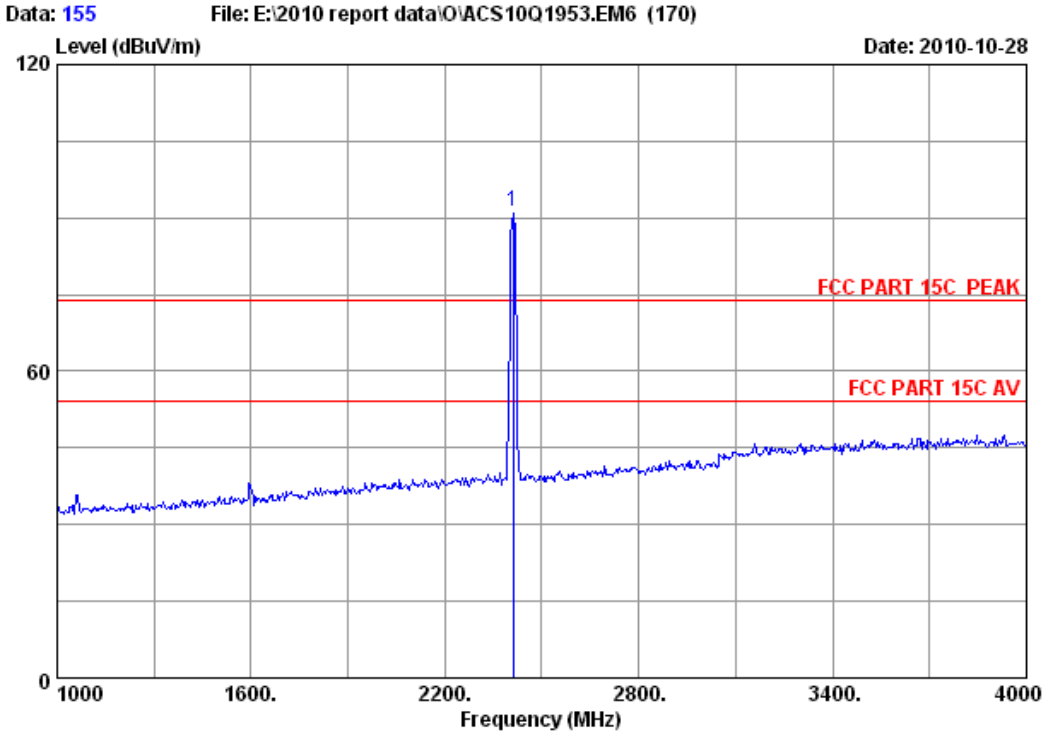
Frequency: 1GHz~4GHz



Site no. : 3m Chamber Data no. : 156
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Alan Geng
EUT : 150Mbps Wireless lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH1 2412MHz
M/N : AK093

	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	28.48	8.60	35.95	104.49	105.62	74.00	-31.62	Peak

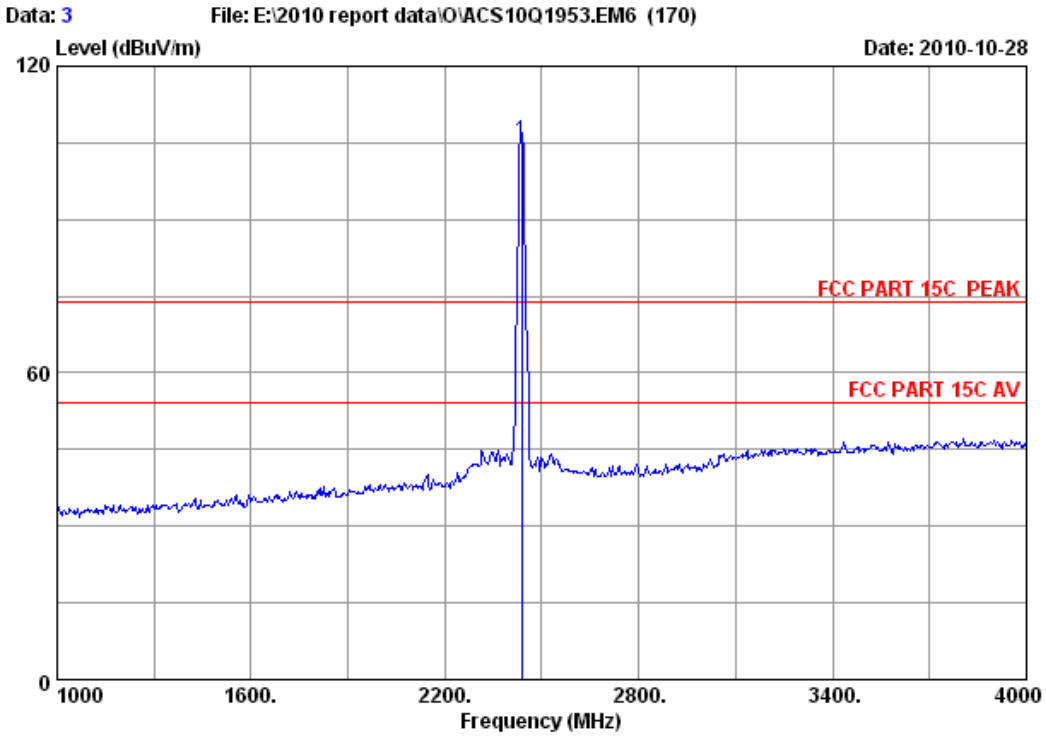
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 155
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Alan Geng
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH1 2412MHz
M/N : AK093

	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	28.48	8.60	35.95	90.19	91.32	74.00	-17.32	Peak

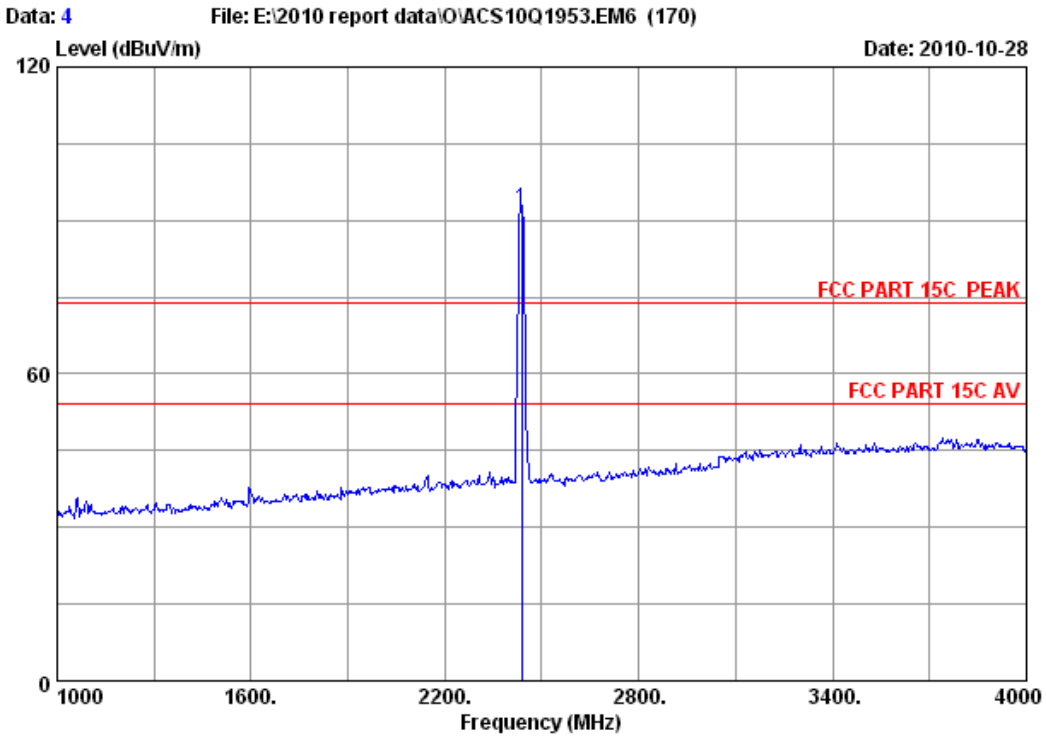
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : RF Chamber Data no. : 3
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Alan Geng
EUT : 150Mbps Wireless lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH6 2437MHz
M/N : AK093

	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	28.53	8.60	36.06	104.37	105.44	74.00	-31.44	Peak

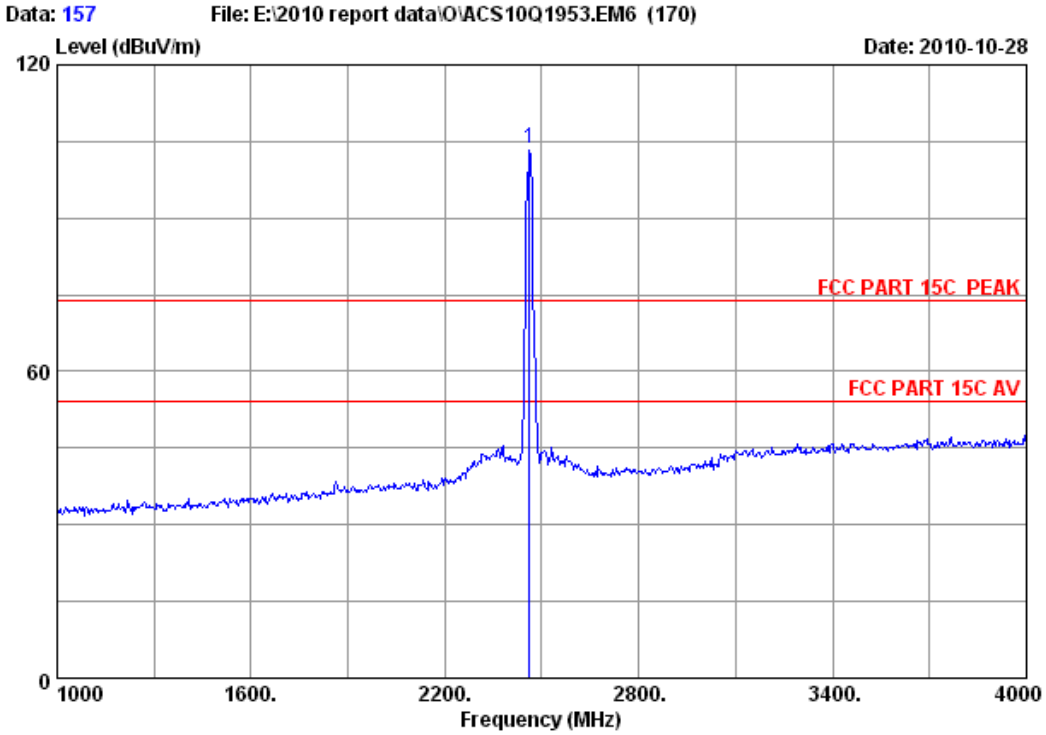
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : RF Chamber Data no. : 4
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Alan Geng
EUT : 150Mbps Wireless lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH6 2437MHz
M/N : AK093

	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	28.53	8.60	36.06	91.28	92.35	74.00	-18.35	Peak

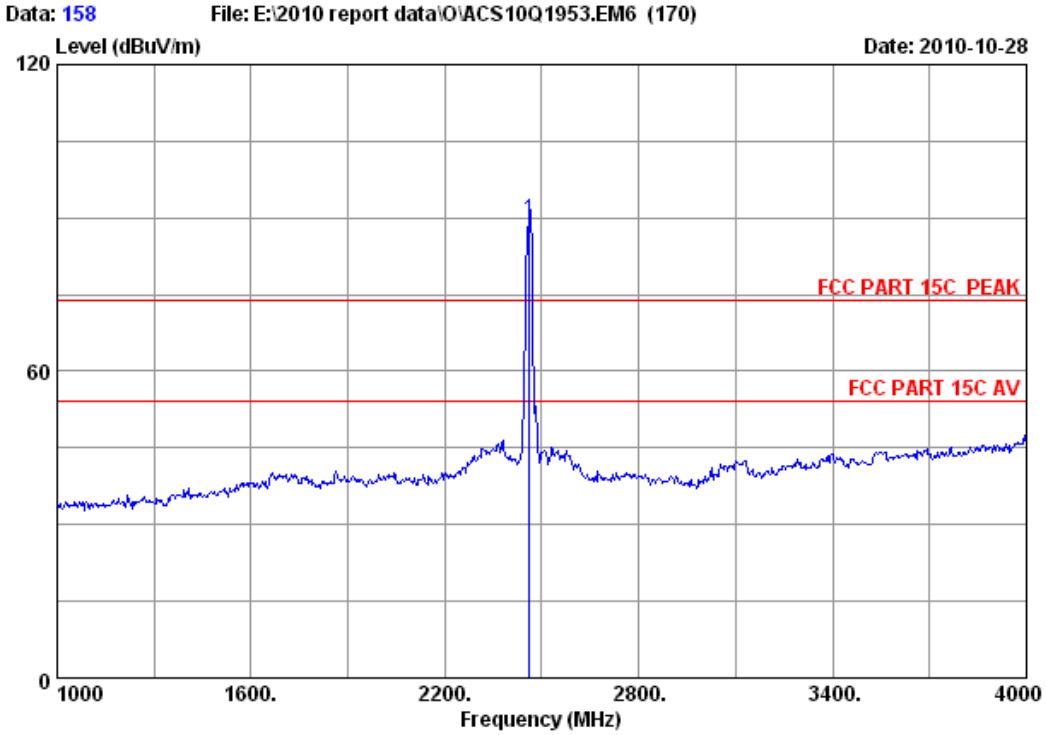
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 157
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Alan Geng
EUT : 150Mbps Wireless lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH11 2462MHz
M/N : AK093

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dbuv)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.000	28.55	8.76	36.02	102.36	103.65	74.00	-29.65	Peak

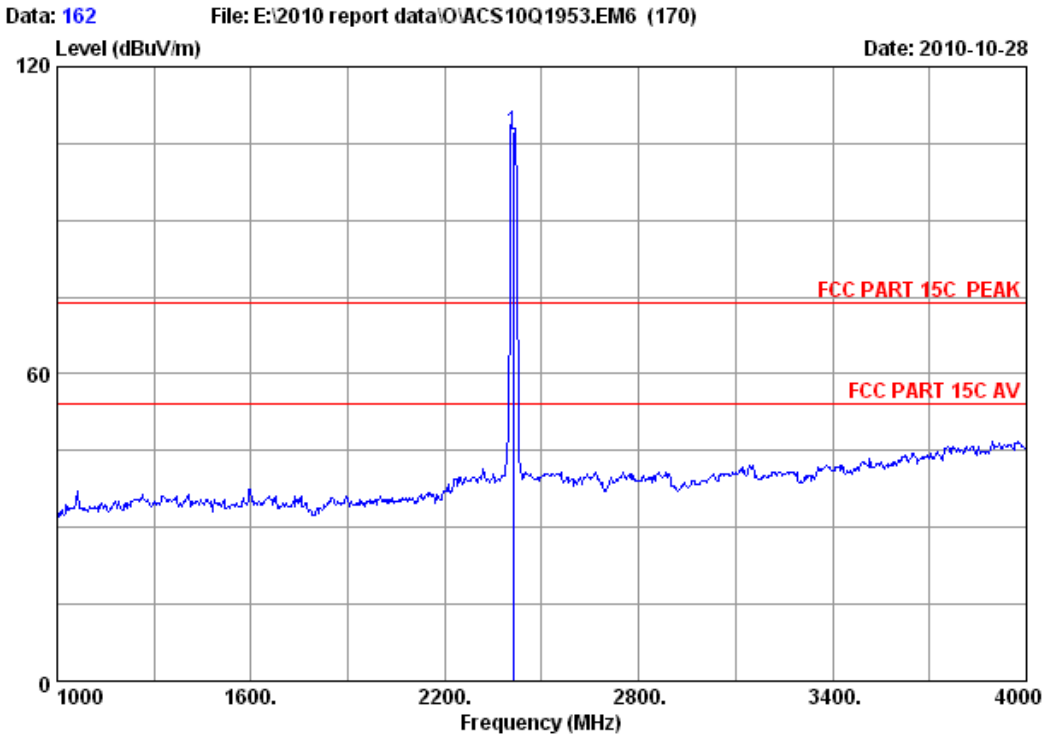
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 158
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Alan Geng
EUT : 150Mbps Wireless lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH11 2462MHz
M/N : AK093

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dbuv)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.000	28.55	8.76	36.02	88.18	89.47	74.00	-15.47	Peak

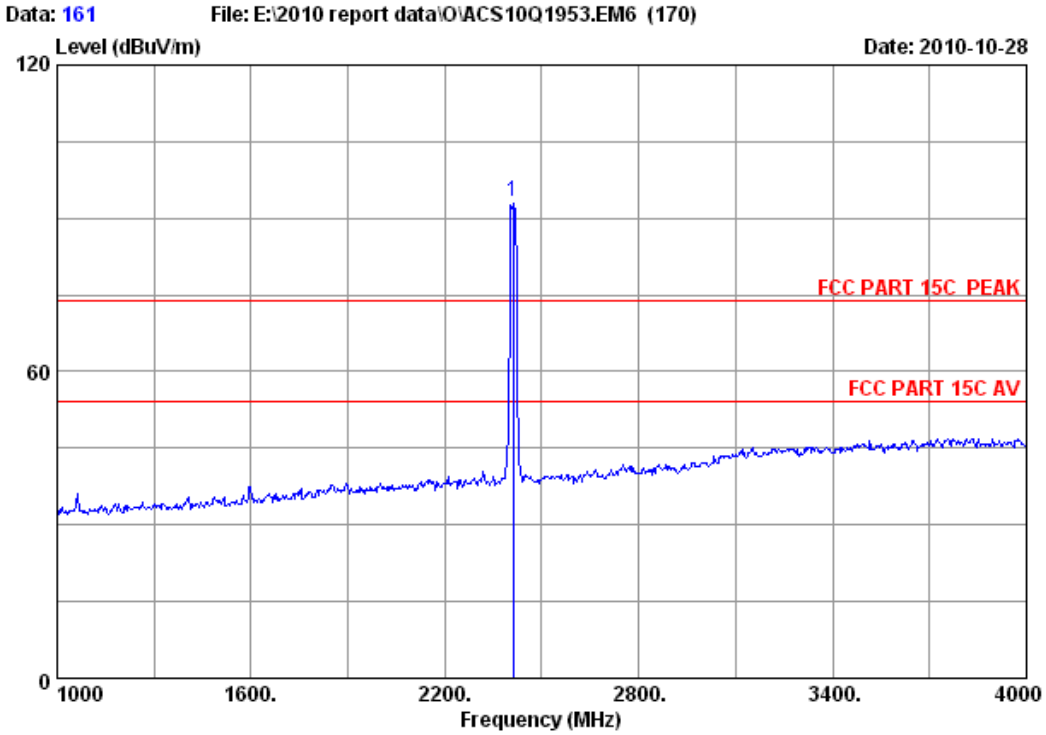
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 162
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Alan Geng
EUT : 150Mbps Wireless lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH1 2412MHz
M/N : AK093

	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	28.48	8.60	35.95	106.29	107.42	74.00	-33.42	Peak

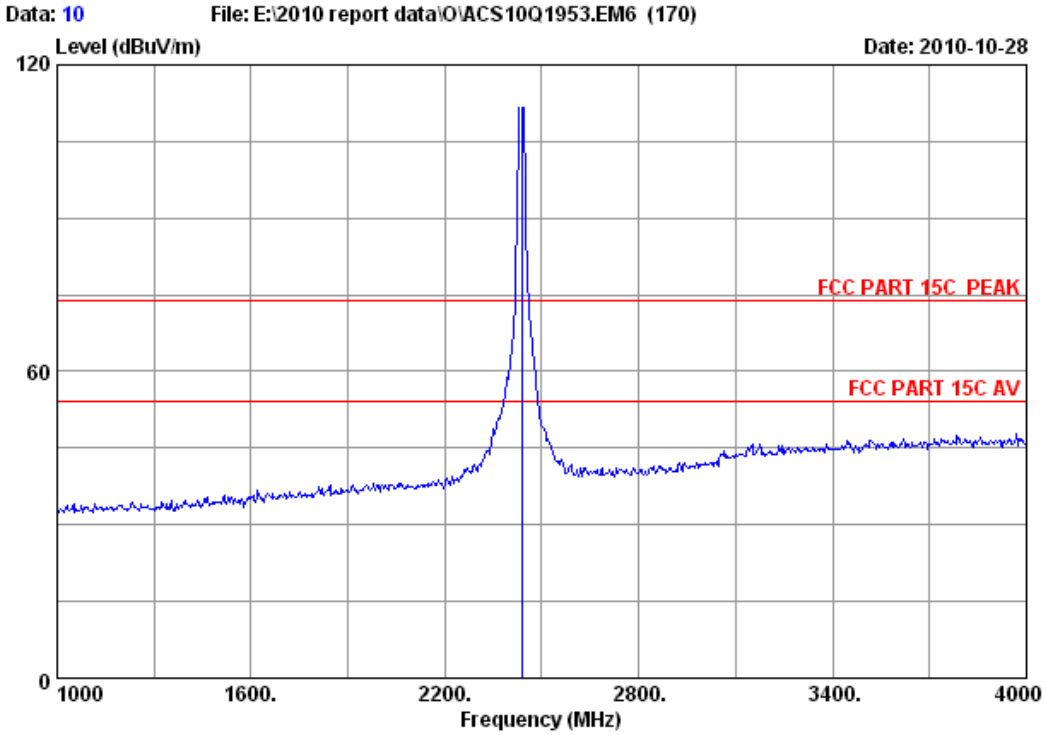
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 161
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Alan Geng
EUT : 150Mbps Wireless lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH1 2412MHz
M/N : AK093

	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	28.48	8.60	35.95	91.99	93.12	74.00	-19.12	Peak

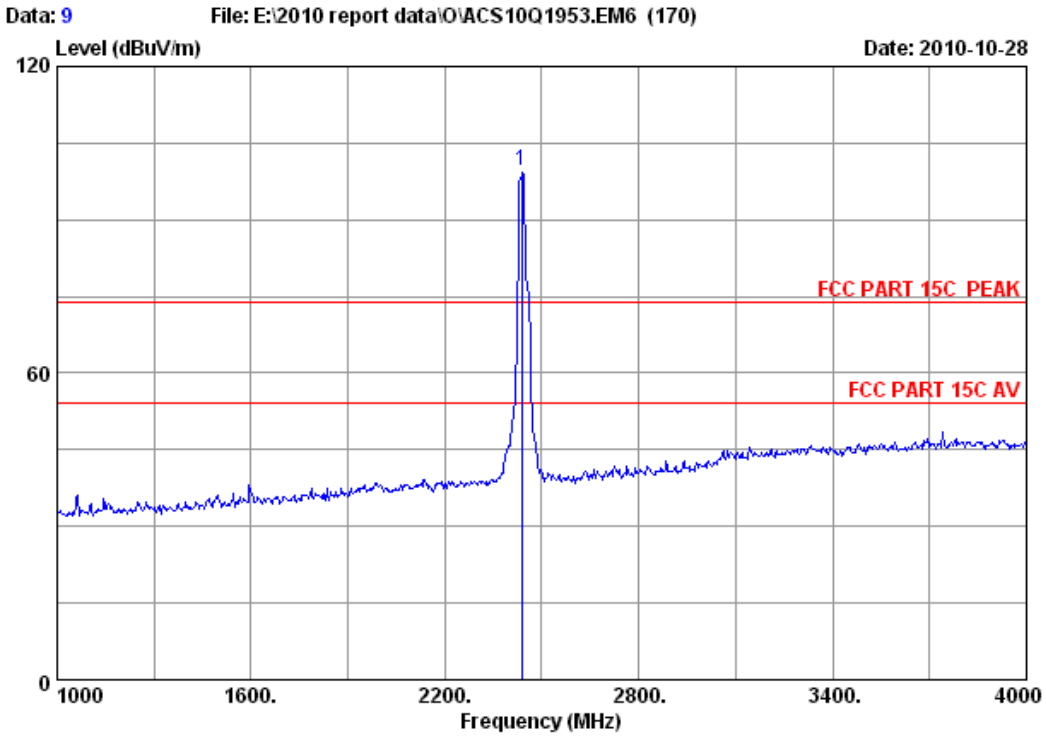
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : RF Chamber Data no. : 10
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Alan Geng
EUT : 150Mbps Wireless lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH6 2437MHz
M/N : AK093

	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	28.53	8.60	36.06	111.87	112.94	74.00	-38.94	Peak

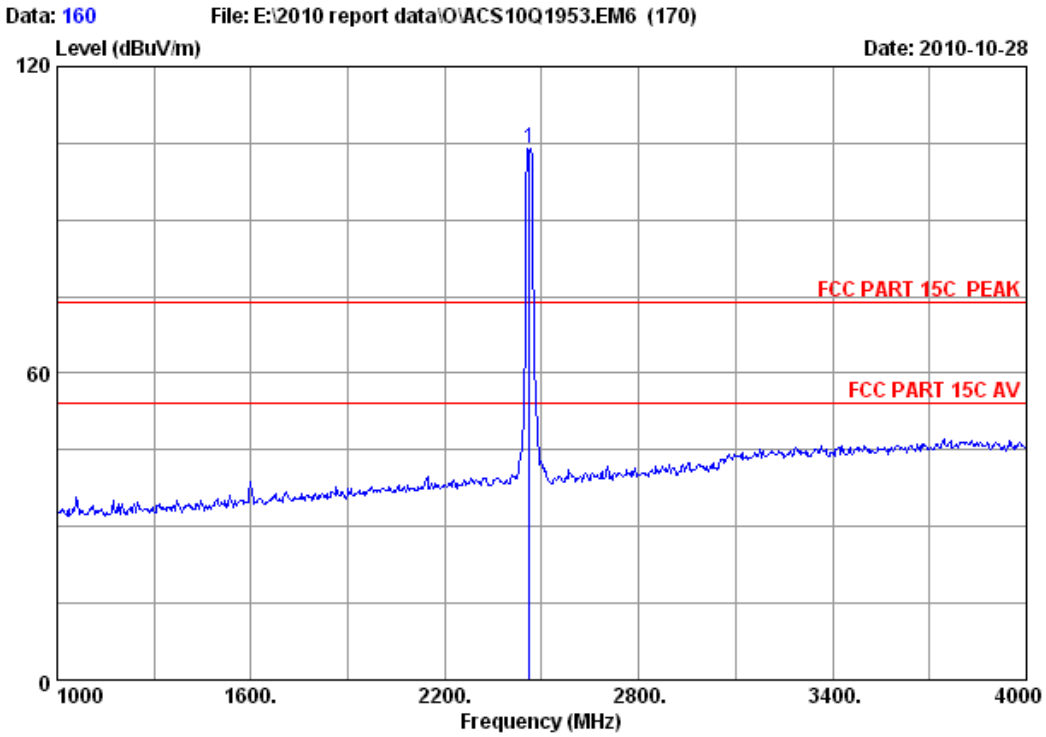
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : RF Chamber Data no. : 9
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Alan Geng
EUT : 150Mbps Wireless lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH6 2437MHz
M/N : AK093

	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	28.53	8.60	36.06	98.39	99.46	74.00	-25.46	Peak

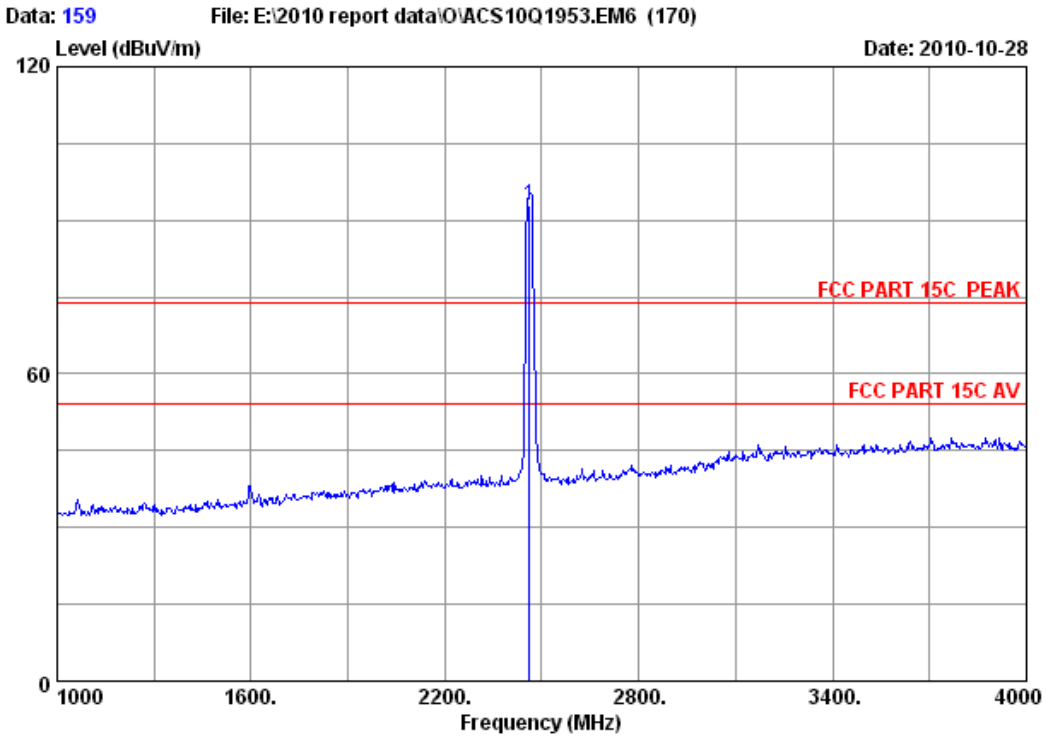
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 160
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Alan Geng
EUT : 150Mbps Wireless lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz
M/N : AK093

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dbuv)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.000	28.55	8.76	36.02	102.66	103.95	74.00	-29.95	Peak

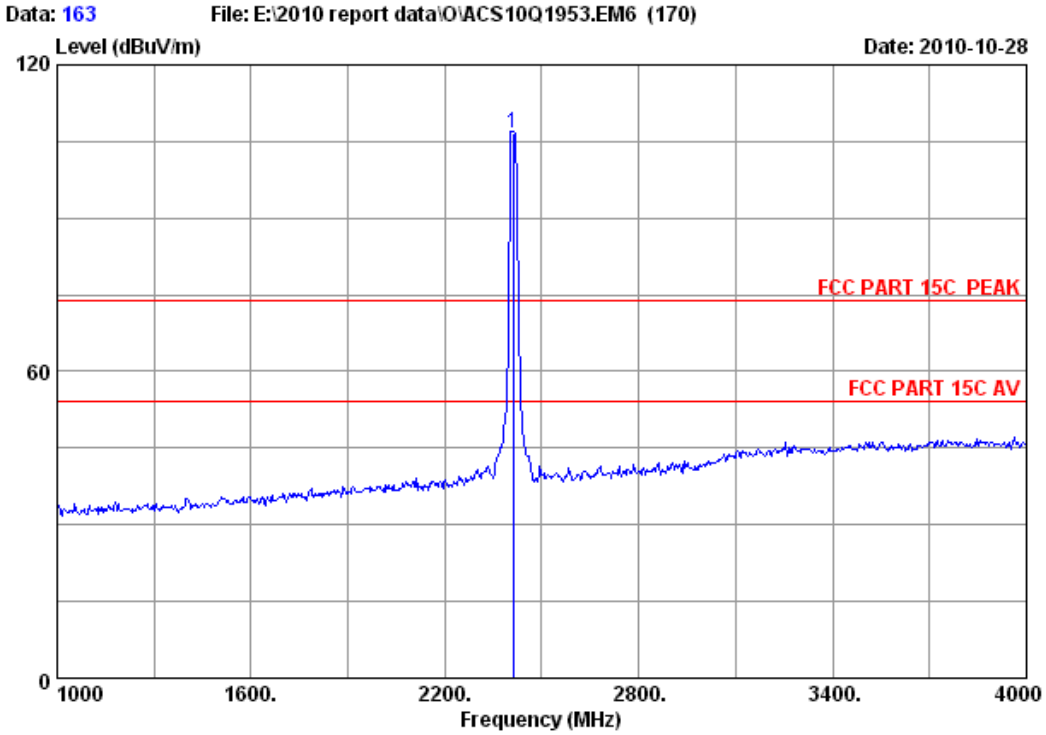
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 159
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Alan Geng
EUT : 150Mbps Wireless lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz
M/N : AK093

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dbuv)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.000	28.55	8.76	36.02	91.59	92.88	74.00	-18.88	Peak

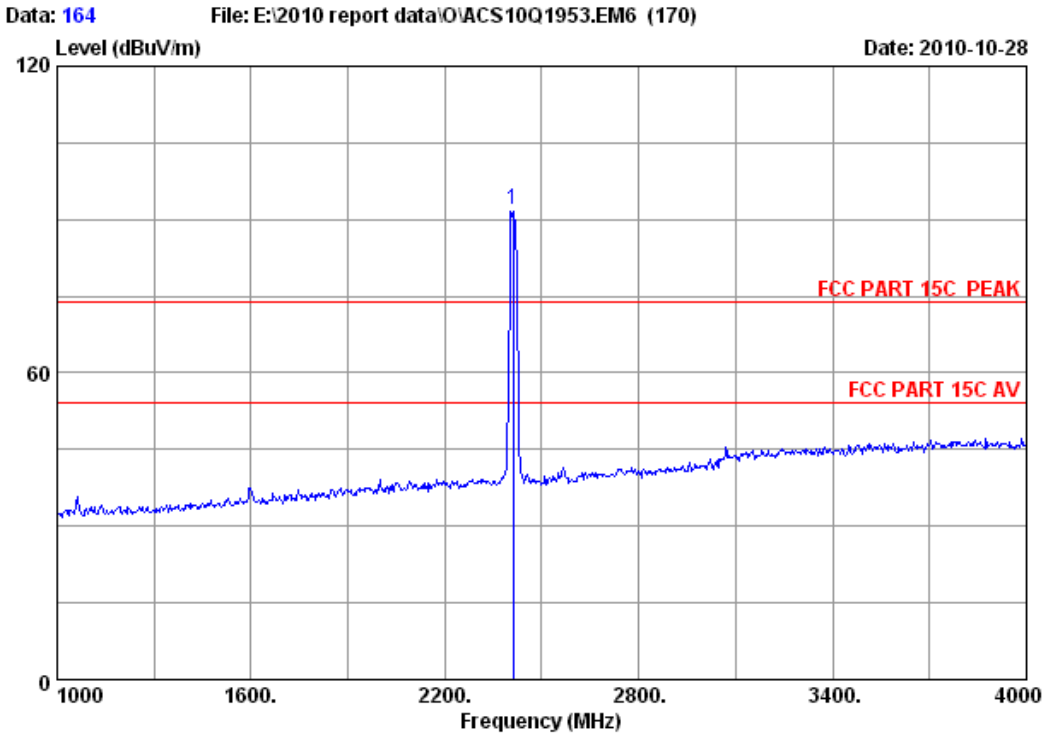
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 163
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Alan Geng
EUT : 150Mbps Wireless lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11nHT20 CH1 2412MHz
M/N : AK093

	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	28.48	8.60	35.95	105.40	106.53	74.00	-32.53	Peak

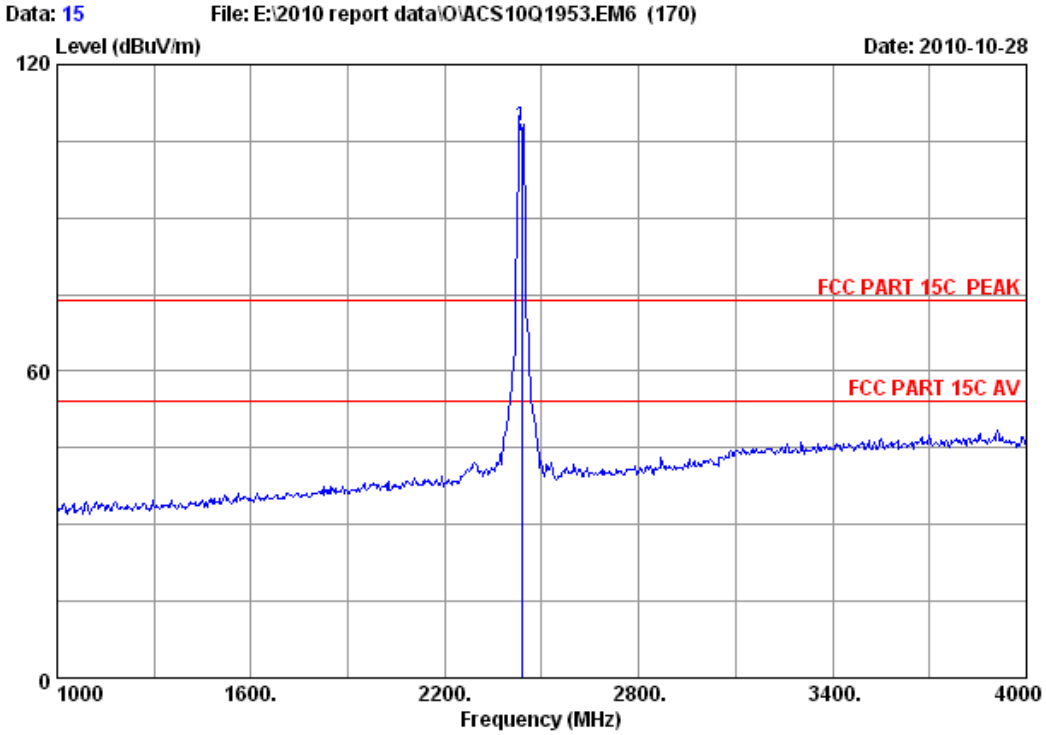
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 164
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Alan Geng
EUT : 150Mbps Wireless lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11nHT20 CH1 2412MHz
M/N : AK093

	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	28.48	8.60	35.95	90.78	91.91	74.00	-17.91	Peak

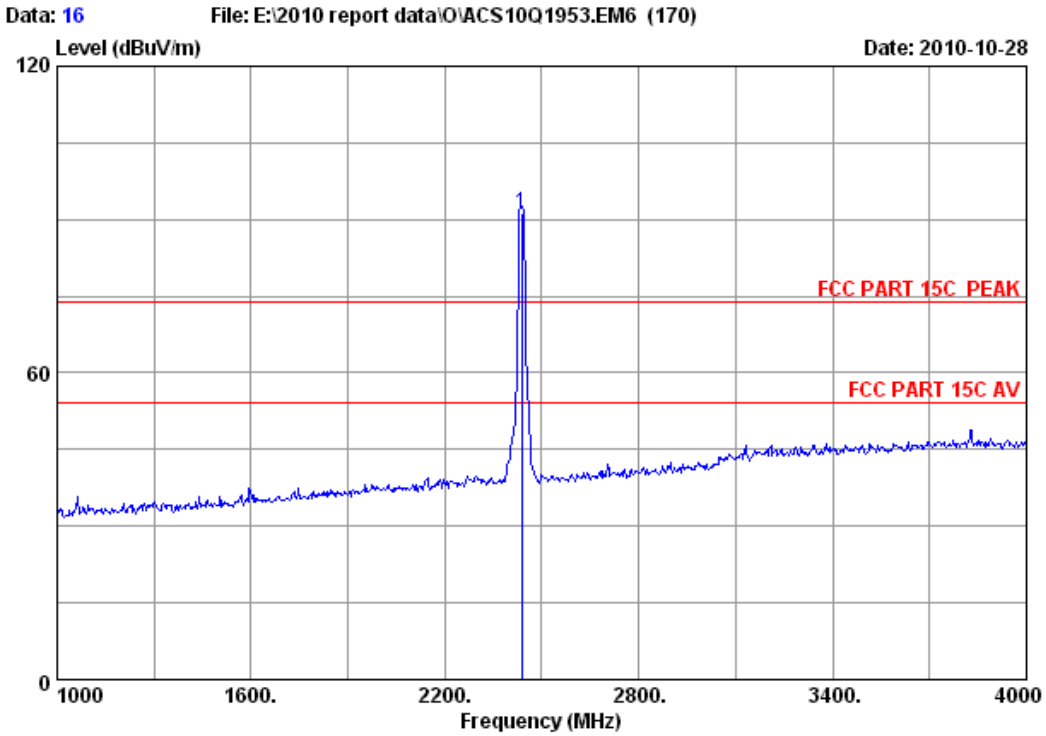
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : RF Chamber Data no. : 15
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Alan Geng
EUT : 150Mbps Wireless lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802. 11nHT20 CH6 2437MHz
M/N : AK093

	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	28.53	8.60	36.06	106.82	107.89	74.00	-33.89	Peak

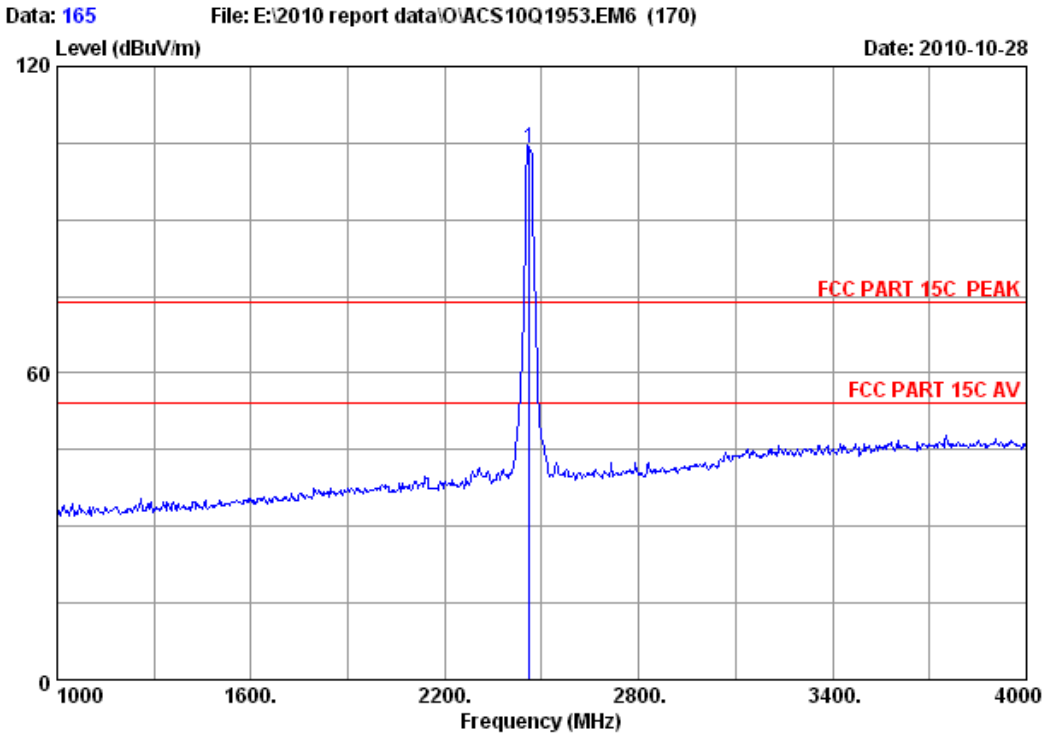
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : RF Chamber Data no. : 16
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Alan Geng
EUT : 150Mbps Wireless lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802. 11nHT20 CH6 2437MHz
M/N : AK093

	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	28.53	8.60	36.06	90.16	91.23	74.00	-17.23	Peak

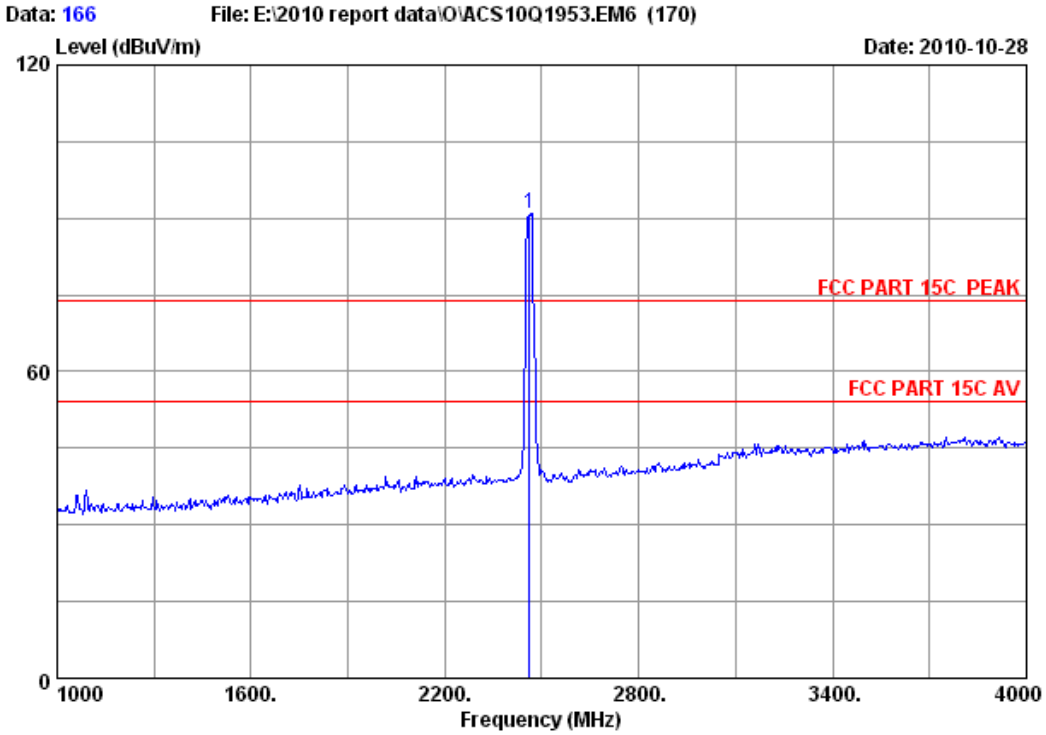
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 165
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Alan Geng
EUT : 150Mbps Wireless lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802. 11nHT20 CH11 2462MHz
M/N : AK093

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dbuv)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.000	28.55	8.76	36.02	102.53	103.82	74.00	-29.82	Peak

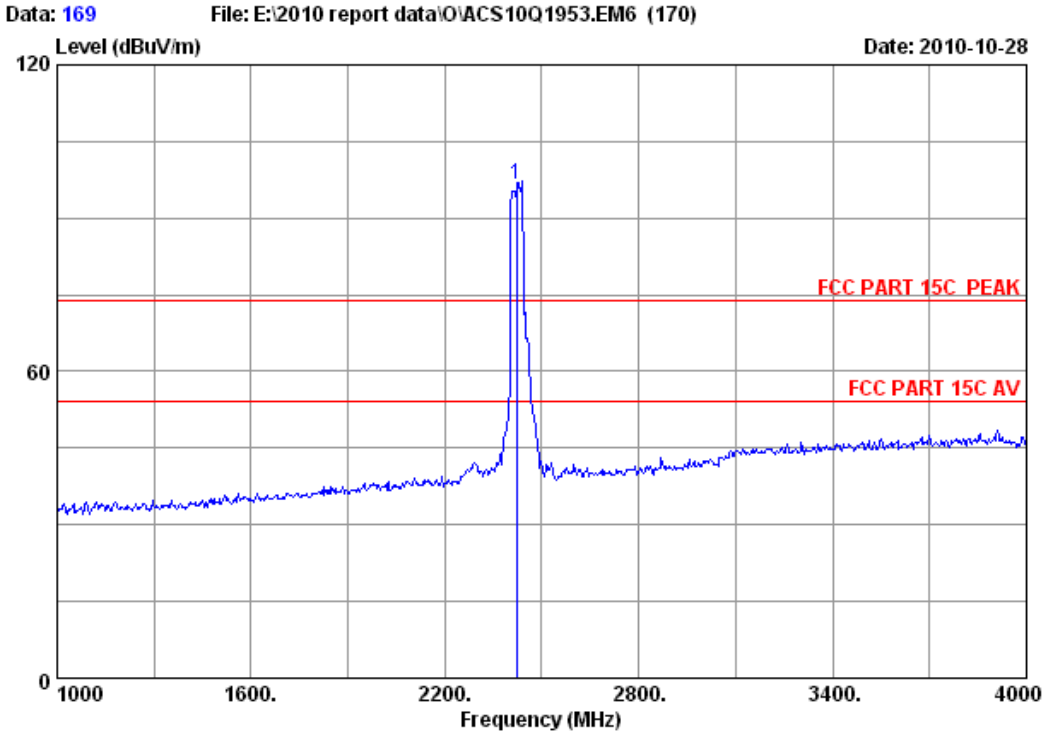
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 166
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Alan Geng
EUT : 150Mbps Wireless lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802. 11nHT20 CH11 2462MHz
M/N : AK093

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dbuv)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.000	28.55	8.76	36.02	89.58	90.87	74.00	-16.87	Peak

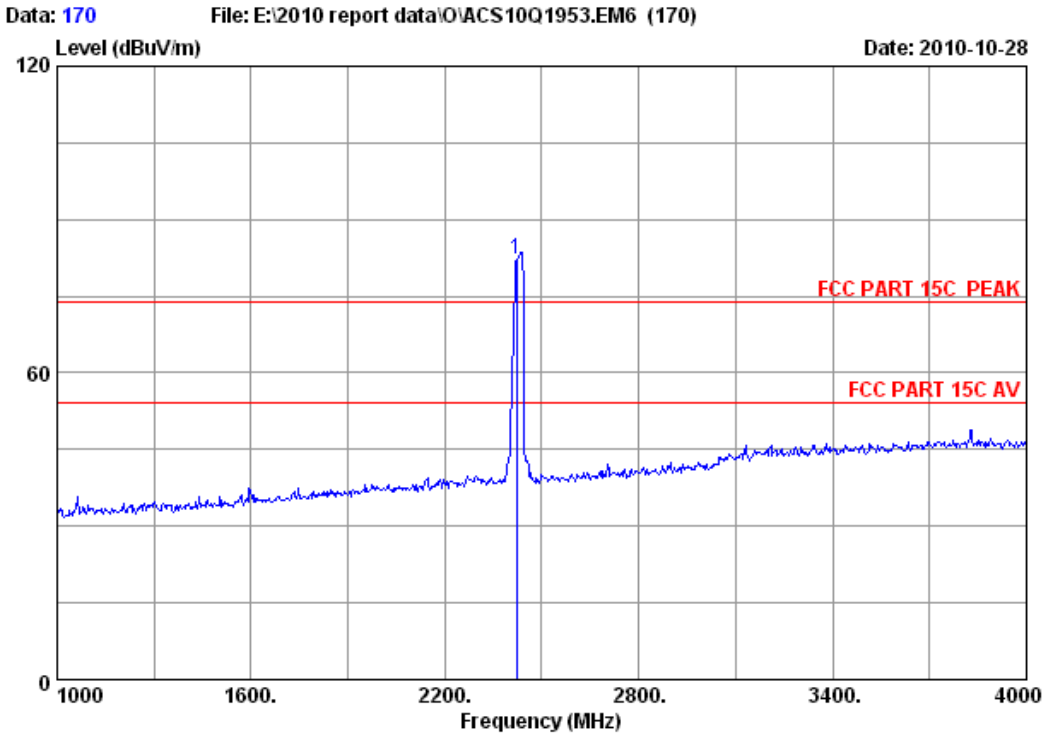
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 169
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Alan Geng
EUT : 150Mbps Wireless lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802. 11nHT20 CH1 2422MHz
M/N : AK093

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dbuv)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2422.000	28.50	8.60	36.01	95.67	96.76	74.00	-22.76	Peak

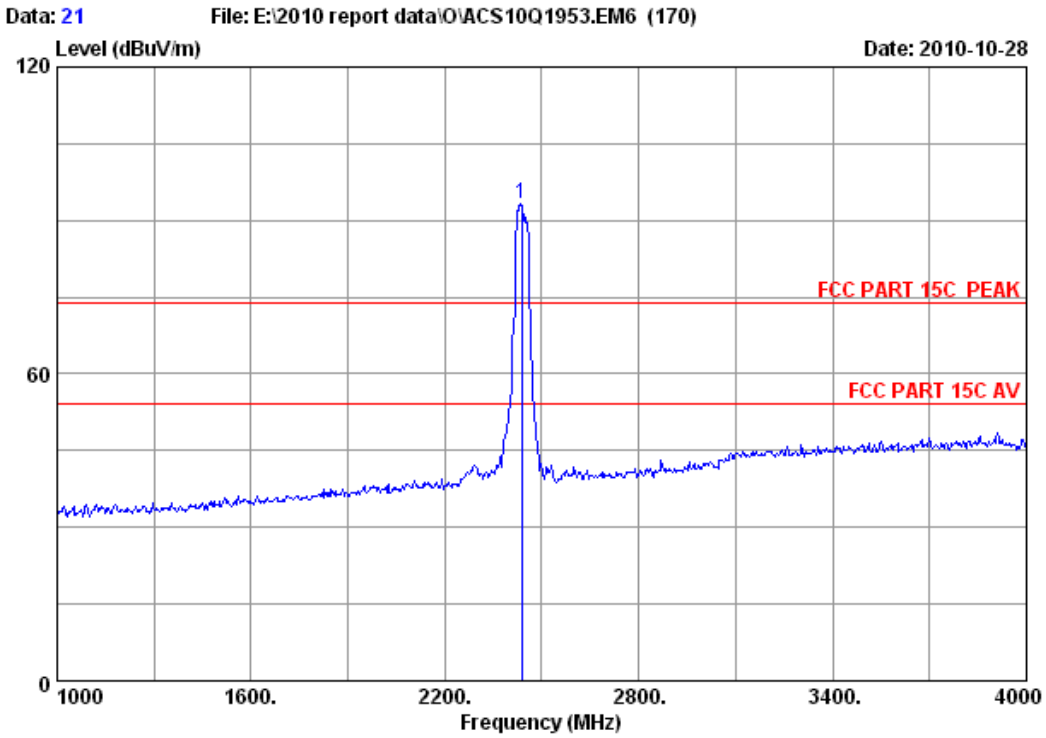
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 170
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Alan Geng
EUT : 150Mbps Wireless lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802. 11nHT20 CH1 2422MHz
M/N : AK093

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dbuv)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2422.000	28.50	8.60	36.01	81.27	82.36	74.00	-8.36	Peak

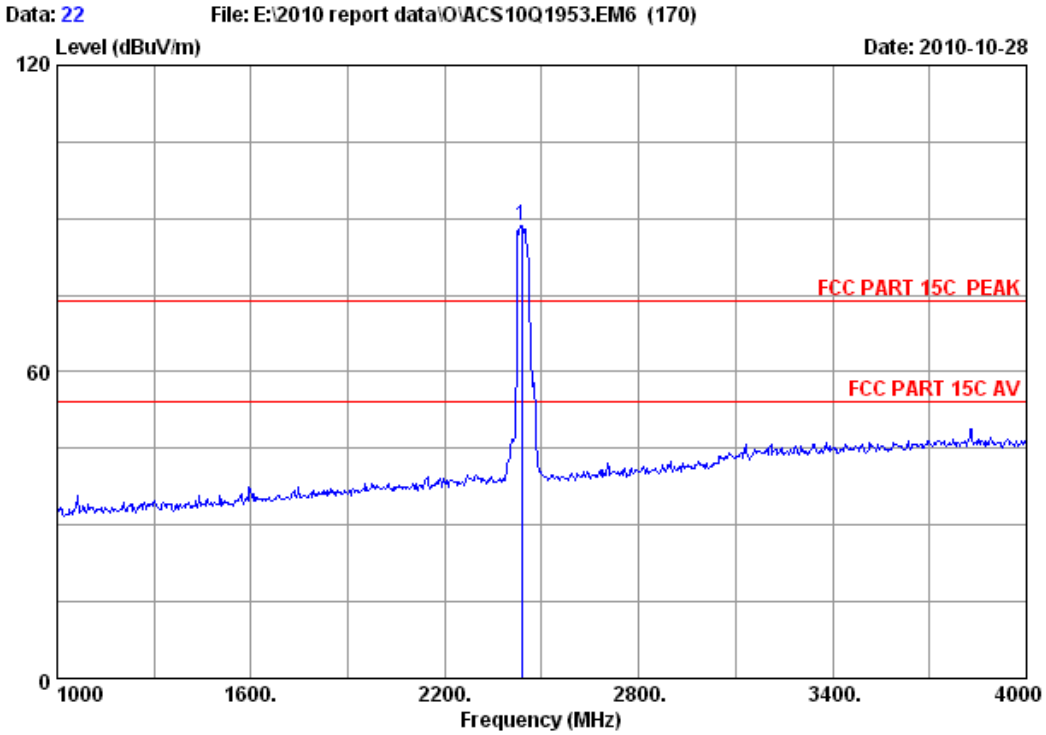
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : RF Chamber Data no. : 21
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Alan Geng
EUT : 150Mbps Wireless lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802. 11nHT40 CH4 2437MHz
M/N : AK093

	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	28.53	8.60	36.06	92.23	93.30	74.00	-19.30	Peak

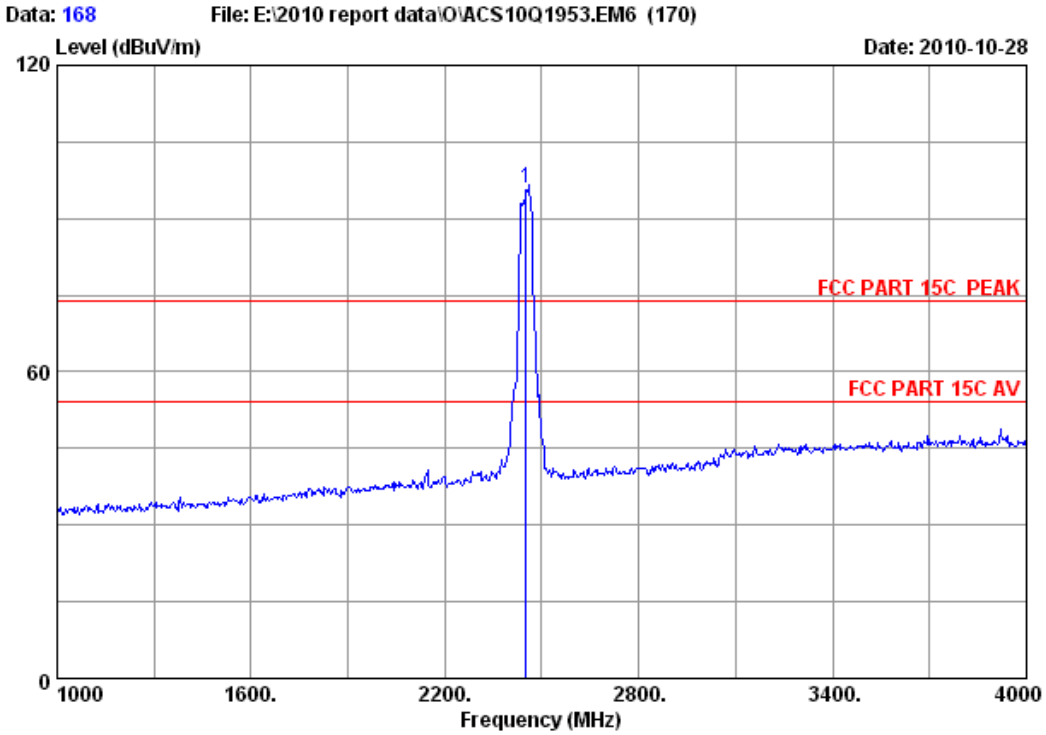
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : RF Chamber Data no. : 22
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Alan Geng
EUT : 150Mbps Wireless lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802. 11nHT40 CH4 2437MHz
M/N : AK093

	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	28.53	8.60	36.06	87.45	88.52	74.00	-14.52	Peak

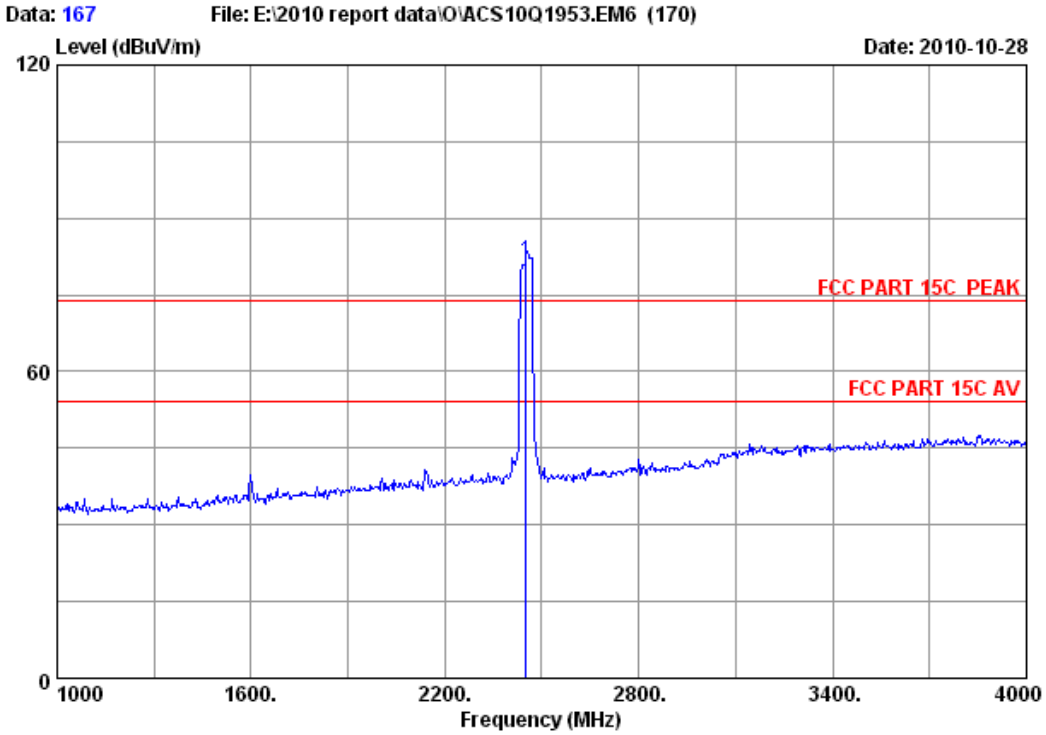
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 168
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Alan Geng
EUT : 150Mbps Wireless lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802. 11nHT40 CH7 2452MHz
M/N : AK093

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dbuv)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2452.000	28.53	8.48	36.06	95.11	96.06	74.00	-22.06	Peak

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

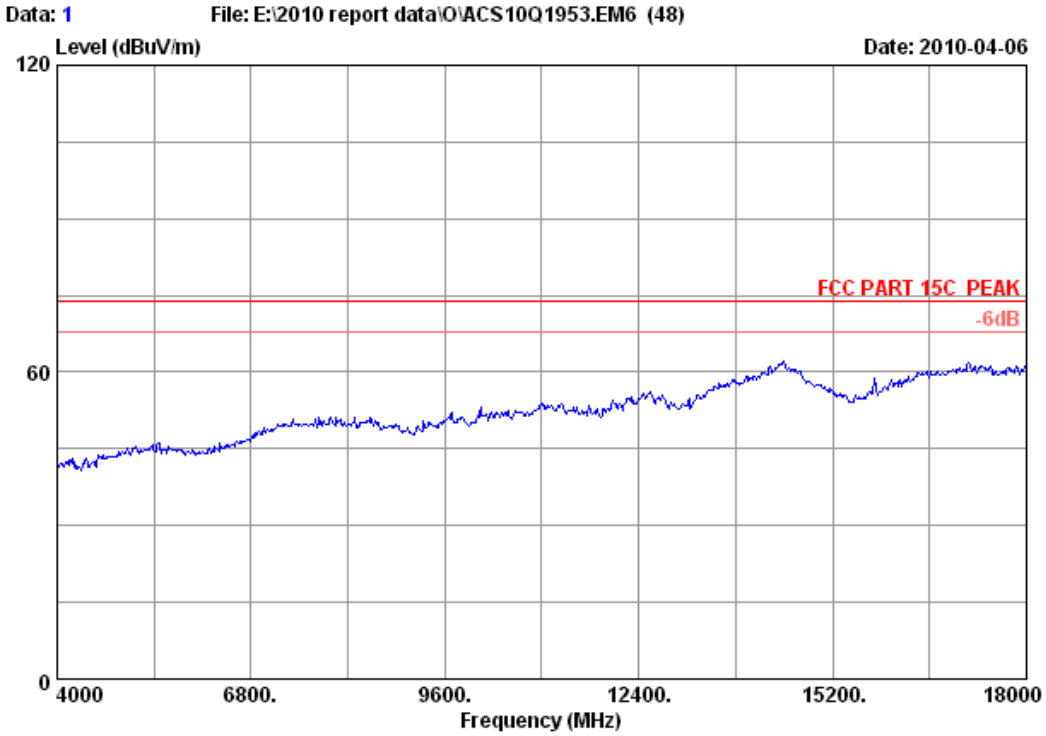


Site no. : 3m Chamber Data no. : 167
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Alan Geng
EUT : 150Mbps Wireless lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802. 11nHT40 CH7 2452MHz
M/N : AK093

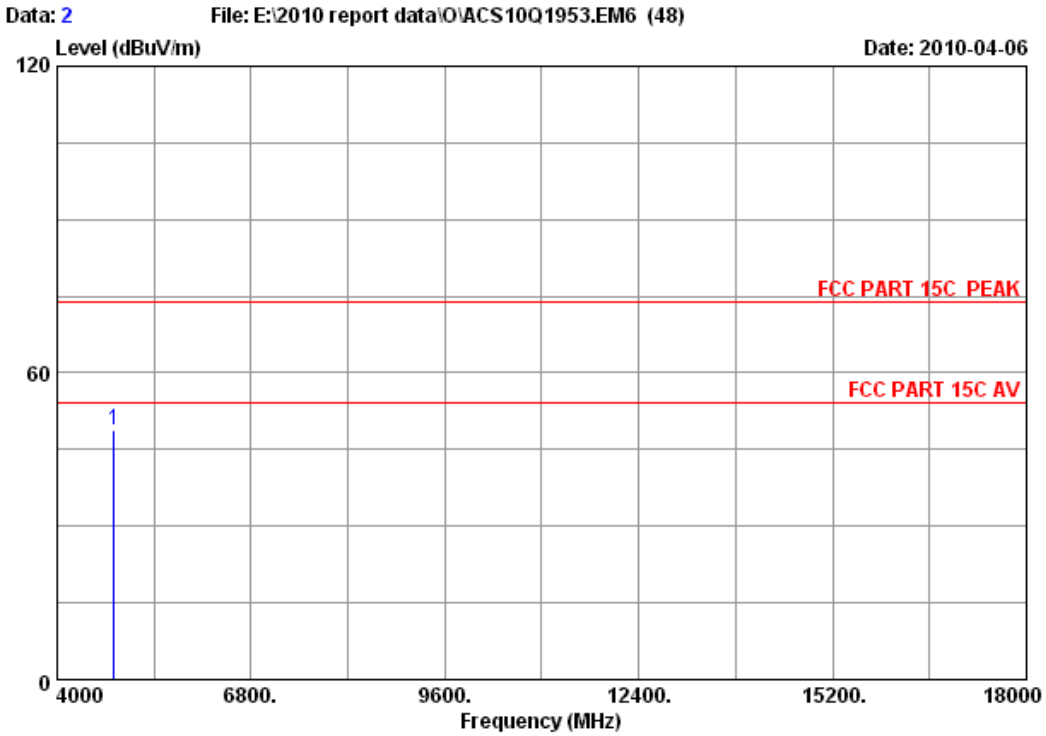
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dbuv)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2452.000	28.53	8.48	36.06	80.55	81.50	74.00	-7.50	Peak

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.

Frequency: 4GHz~18GHz




```
Site no.      : 10m Chamber                Data no. : 1
Dis. / Ant.   : 3m   3115(0905)            Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                   Engineer  : Alan Geng
EUT           : 150Mbps Wireless Lite N USB Adapter
Power         : DC 5V From PC input AC 120V/60Hz
Test mode     : IEEE802.11b  CH1  2412MHz
M/N           : AK093
              :
```

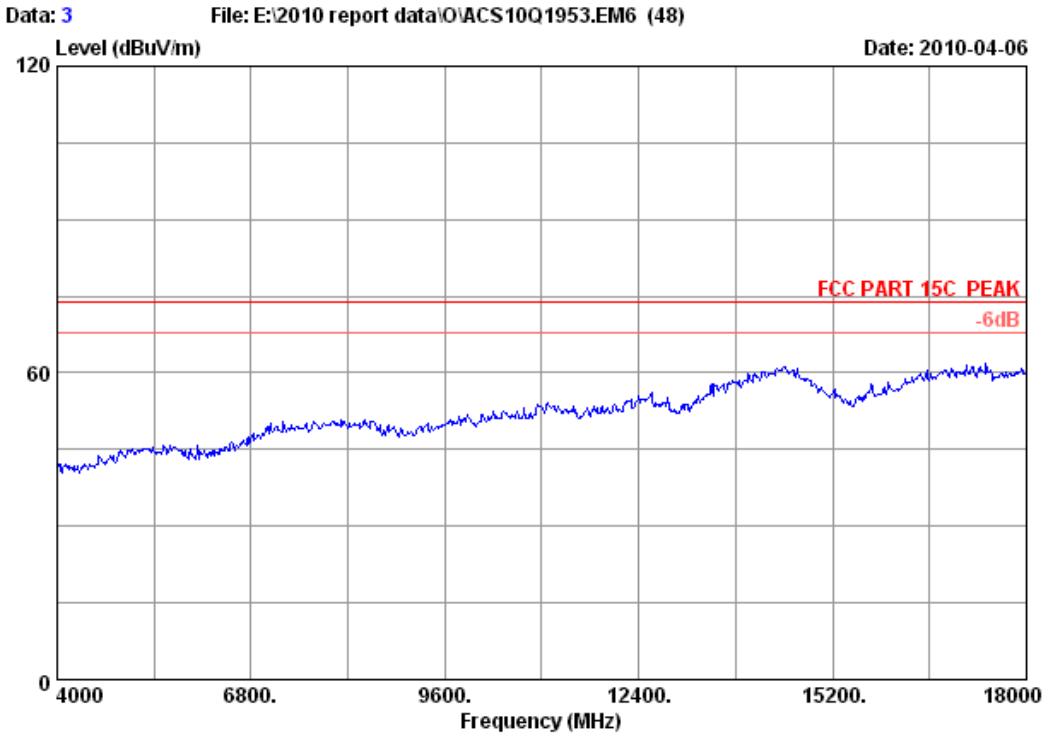



```
Site no.      : 10m Chamber                Data no. : 2
Dis. / Ant.   : 3m   3115(0905)            Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                   Engineer  : Alan Geng
EUT           : 150Mbps Wireless Lite N USB Adapter
Power         : DC 5V From PC input AC 120V/60Hz
Test mode     : IEEE802.11b  CH1  2412MHz
M/N           : AK093
              :
```

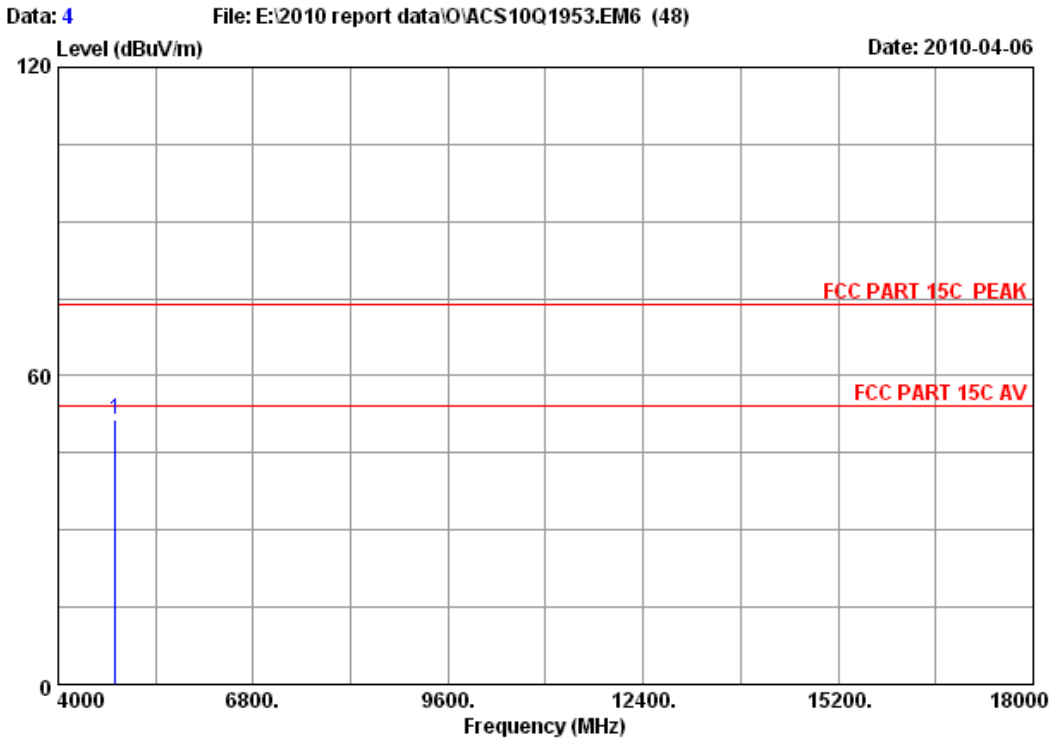
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	34.47	12.58	35.25	37.00	48.80	74.00	25.20	Peak

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(0905)            Ant. pol. : VERTICAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                   Engineer  : Alan Geng
EUT           : 150Mbps Wireless Lite N USB Adapter
Power         : DC 5V From PC input AC 120V/60Hz
Test mode     : IEEE802.11b  CH1  2412MHz
M/N           : AK093
              :
```

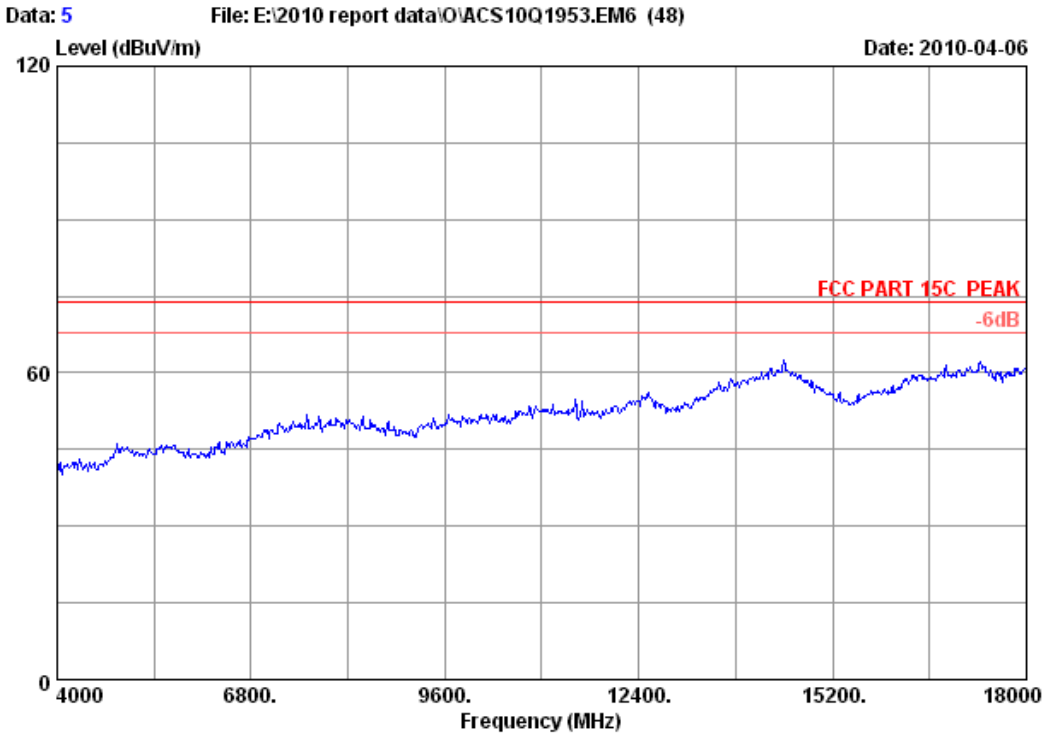



```
Site no.      : 10m Chamber              Data no. :  4
Dis. / Ant.   : 3m   3115(0905)          Ant. pol. : VERTICAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                 Engineer  : Paul Tian
EUT           : 150Mbps Wireless Lite N USB Adapter
Power         : DC 5V From PC input AC 120V/60Hz
Test mode     : IEEE802.11b  CH1  2412MHz
M/N           : AK093
```

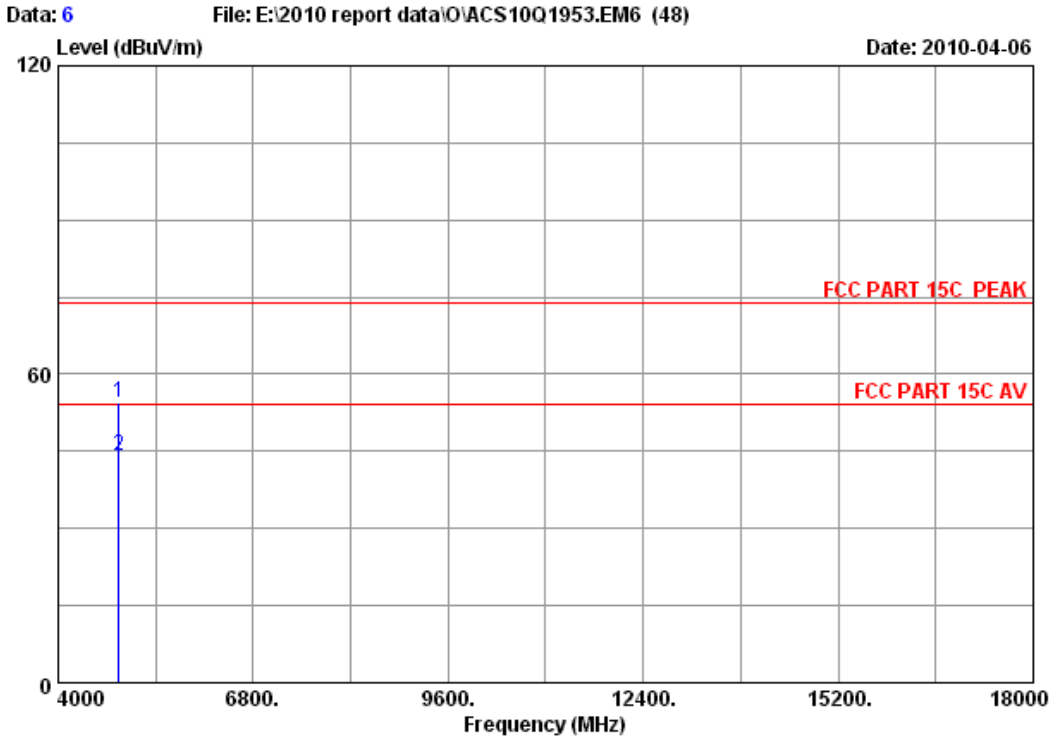
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	34.32	10.64	35.08	41.53	51.41	74.00	22.59	Peak

Remarks:

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




```
Site no.      : 10m Chamber                Data no. : 5
Dis. / Ant.   : 3m   3115(0905)            Ant. pol. : VERTICAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                   Engineer  : Alan Geng
EUT           : 150Mbps Wireless Lite N USB Adapter
Power         : DC 5V From PC input AC 120V/60Hz
Test mode     : IEEE802.11b  CH1  2437MHz
M/N           : AK093
              :
```

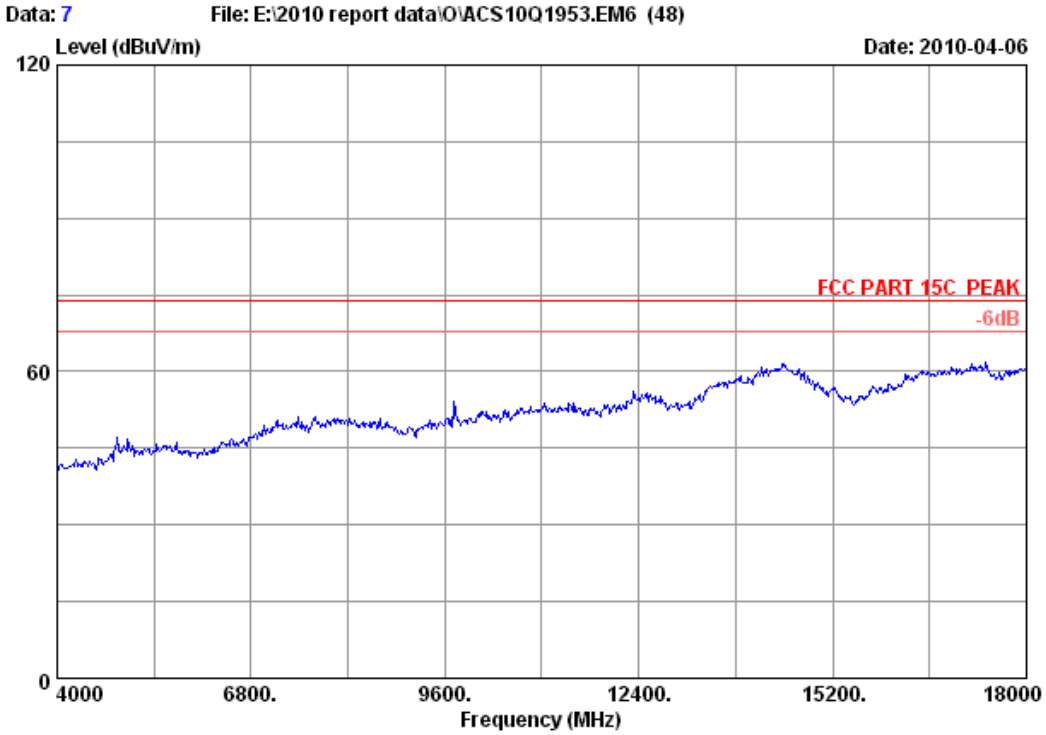



```
Site no.      : 3m Chamber                Data no. :  6
Dis. / Ant.   : 10m Chamber               Ant. pol. : VERTICAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                  Engineer  : Alan Geng
EUT           : 150Mbps Wireless Lite N USB Adapter
Power         : DC 5V From PC input AC 120V/60Hz
Test mode     : IEEE802.11b  CH1  2437MHz
M/N           : AK093
              :
```

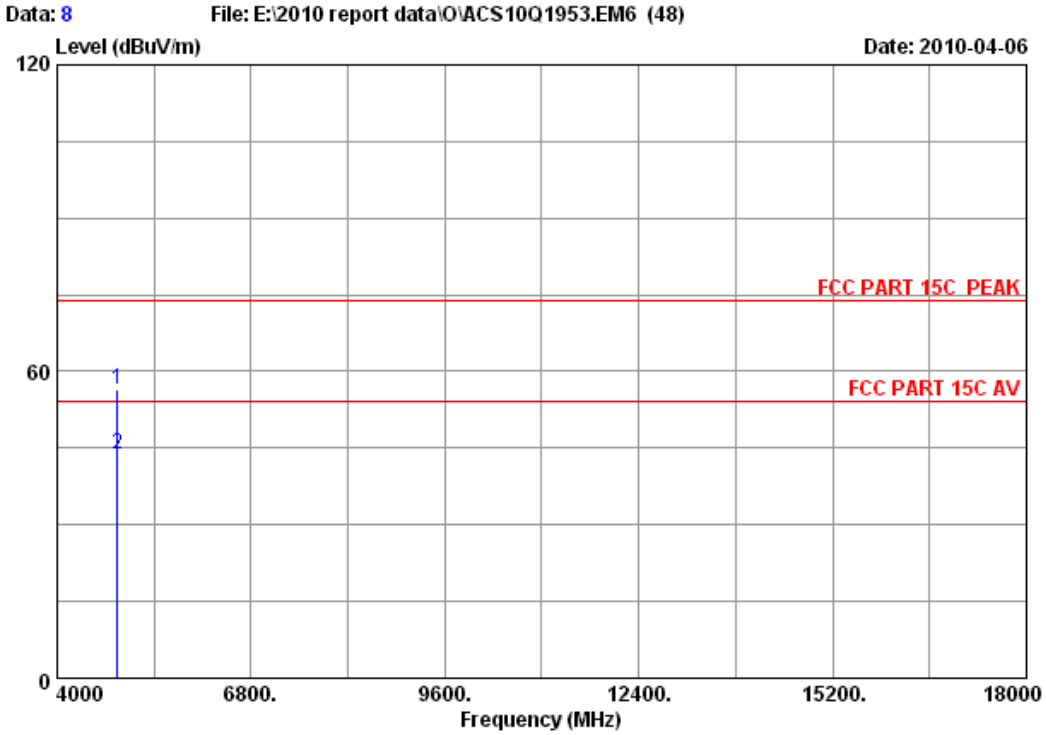
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	34.41	10.69	35.03	44.39	54.46	74.00	19.54	Peak
2	4874.000	34.41	10.69	35.03	34.00	44.07	54.00	9.93	Average

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(0905)          Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                 Engineer  : Alan Geng
EUT           : 150Mbps Wireless Lite N USB Adapter
Power         : DC 5V From PC input AC 120V/60Hz
Test mode     : IEEE802.11b  CH1  2437MHz
M/N           : AK093
              :
```

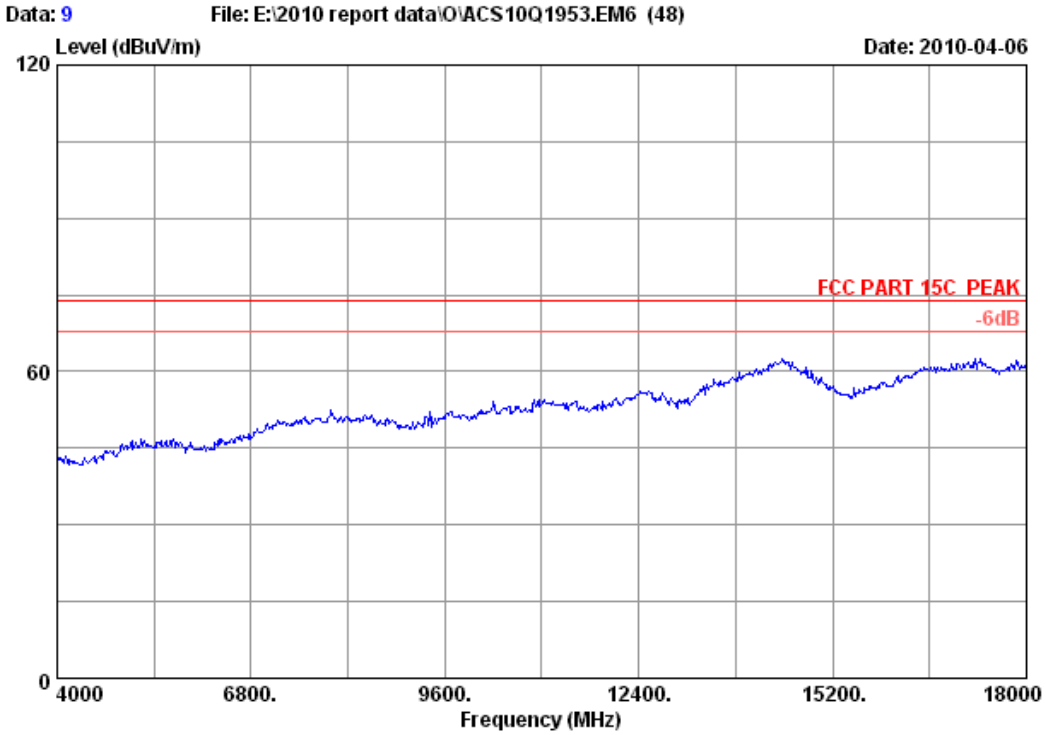



```
Site no.      : 10m Chamber                Data no. : 8
Dis. / Ant.   : 3m   3115(0905)            Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                   Engineer  : Alan Geng
EUT           : 150Mbps Wireless Lite N USB Adapter
Power         : DC 5V From PC input AC 120V/60Hz
Test mode     : IEEE802.11b  CH1  2437MHz
M/N           : AK093
              :
```

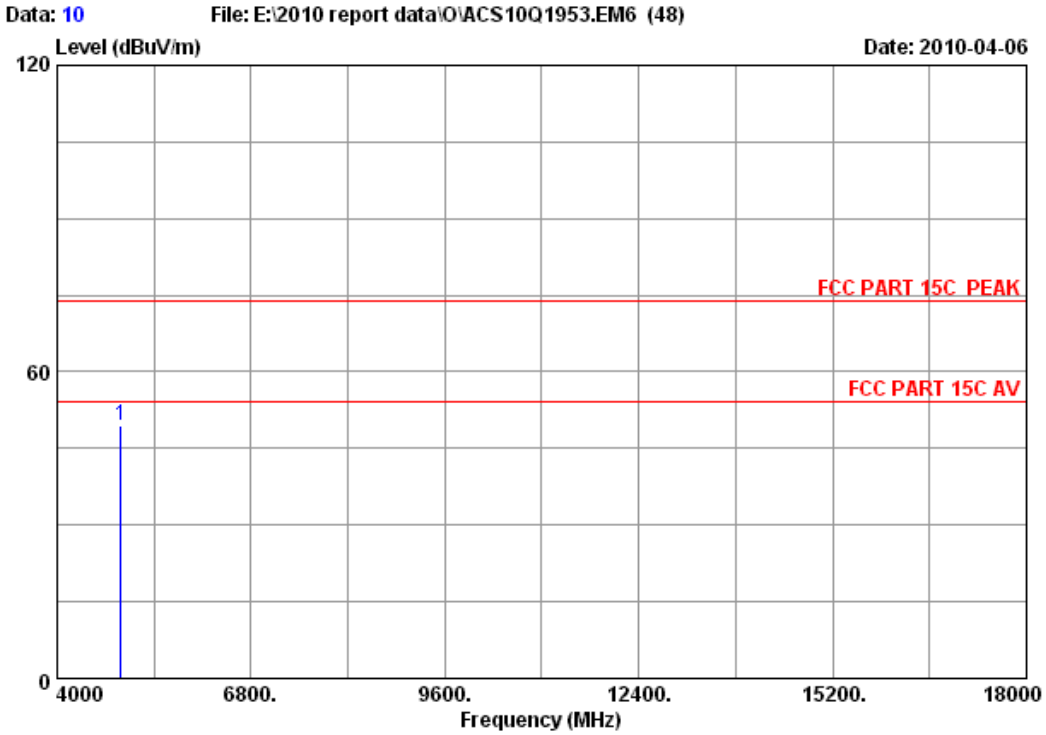
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	34.78	12.23	35.36	44.99	56.64	74.00	17.36	Peak
2	4874.000	34.78	12.23	35.36	32.19	43.84	54.00	10.16	Average

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.




```
Site no.      : 10m Chamber                Data no. : 9
Dis. / Ant.   : 3m   3115(0905)            Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                   Engineer  : Alan Geng
EUT           : 150Mbps Wireless Lite N USB Adapter
Power         : DC 5V From PC input AC 120V/60Hz
Test mode     : IEEE802.11b  CH11  2462MHz
M/N           : AK093
              :
```

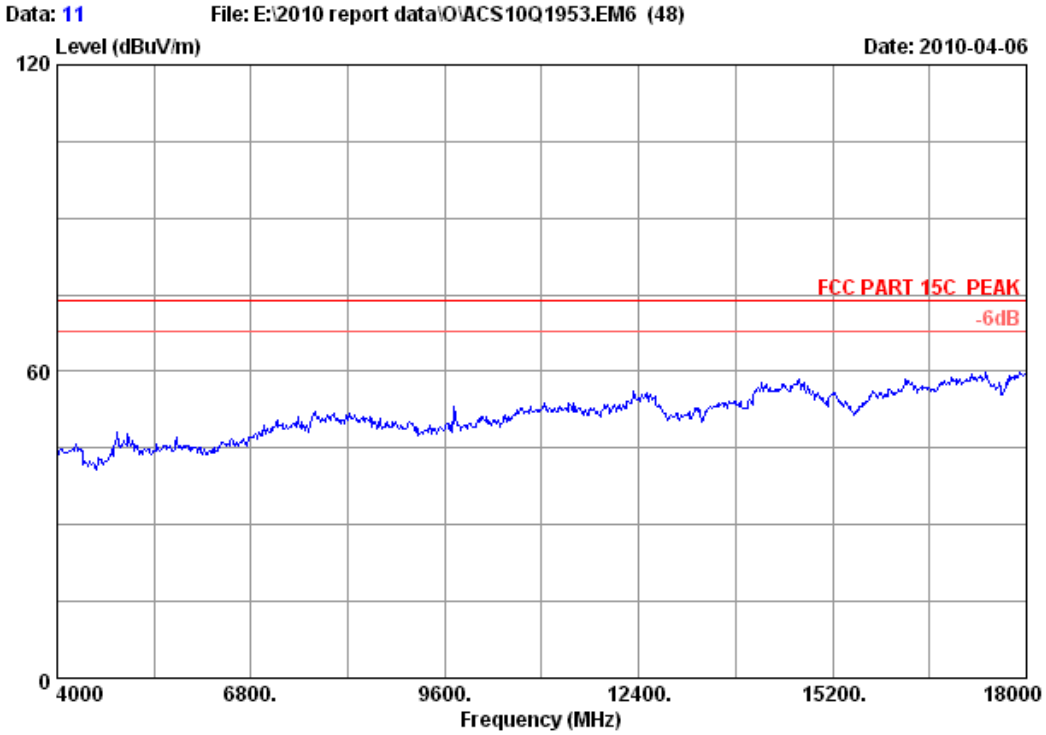



```
Site no.      : 10m Chamber                Data no. : 10
Dis. / Ant.   : 3m   3115(0905)            Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                   Engineer  : Alan Geng
EUT           : 150Mbps Wireless Lite N USB Adapter
Power         : DC 5V From PC input AC 120V/60Hz
Test mode     : IEEE802.11b  CH11  2462MHz
M/N           : AK093
              :
```

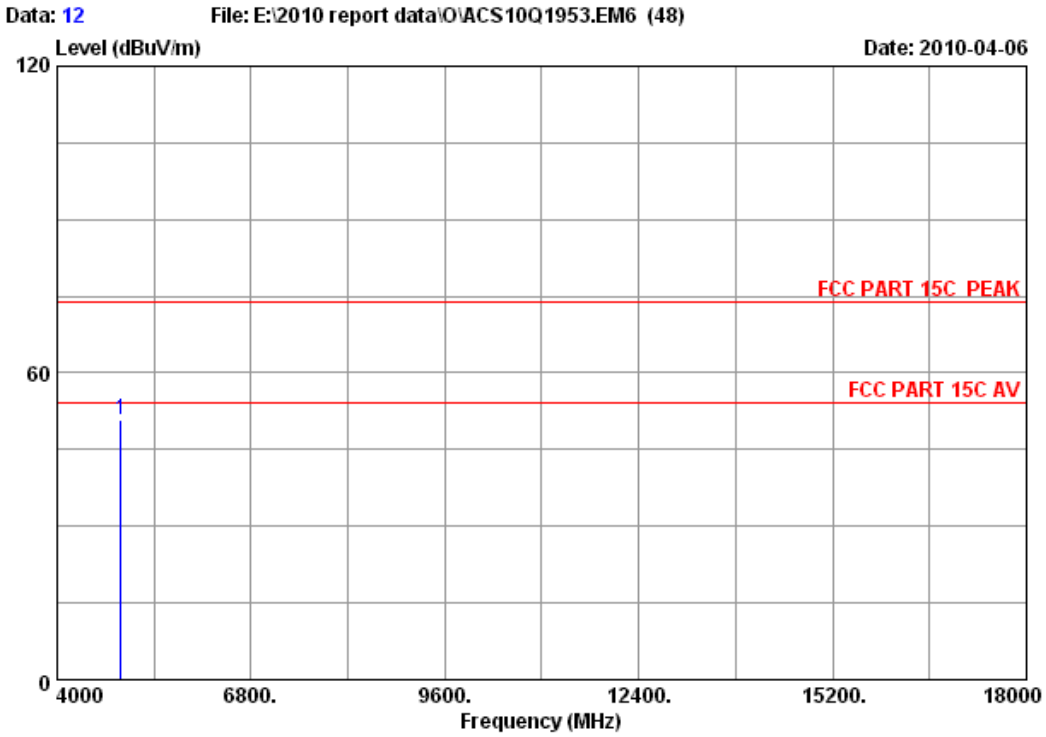
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	35.09	12.58	35.34	37.01	49.34	74.00	24.66	Peak

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.



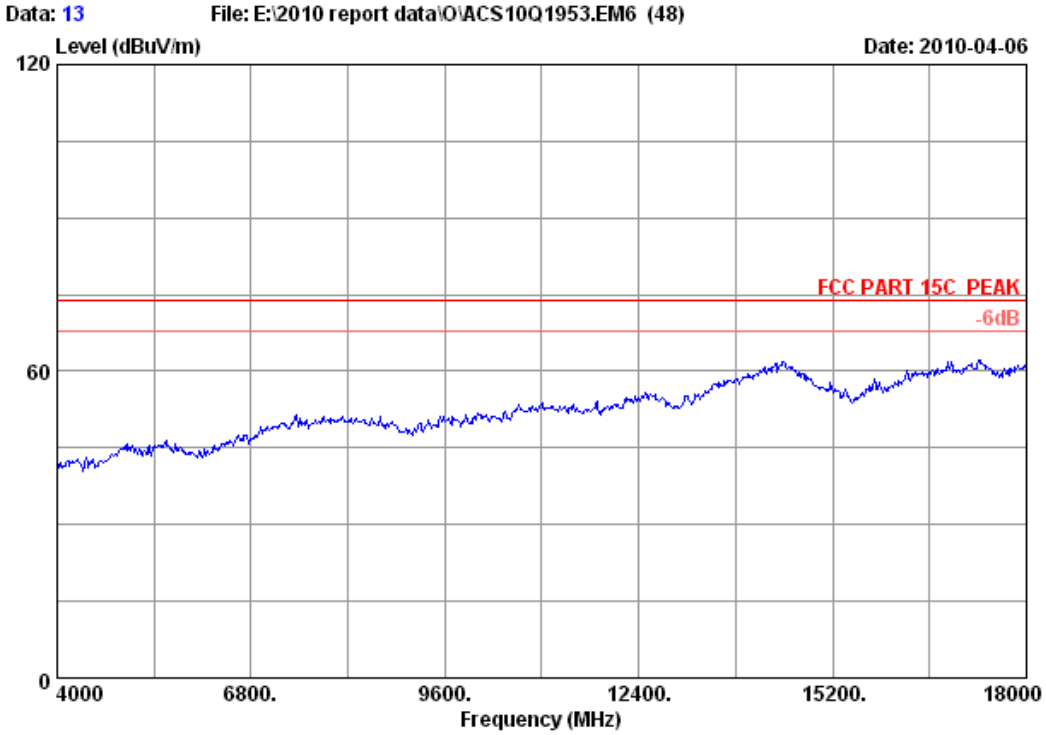

```
Site no.      : 10m Chamber                Data no. : 11
Dis. / Ant.   : 3m   3115(0905)            Ant. pol. : VERTICAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                   Engineer  : Alan Geng
EUT           : 150Mbps Wireless Lite N USB Adapter
Power         : DC 5V From PC input AC 120V/60Hz
Test mode     : IEEE802.11b  CH11  2462MHz
M/N           : AK093
              :
```



Site no. : 10m Chamber Data no. : 12
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Alan Geng
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH11 2462MHz
M/N : AK093
:

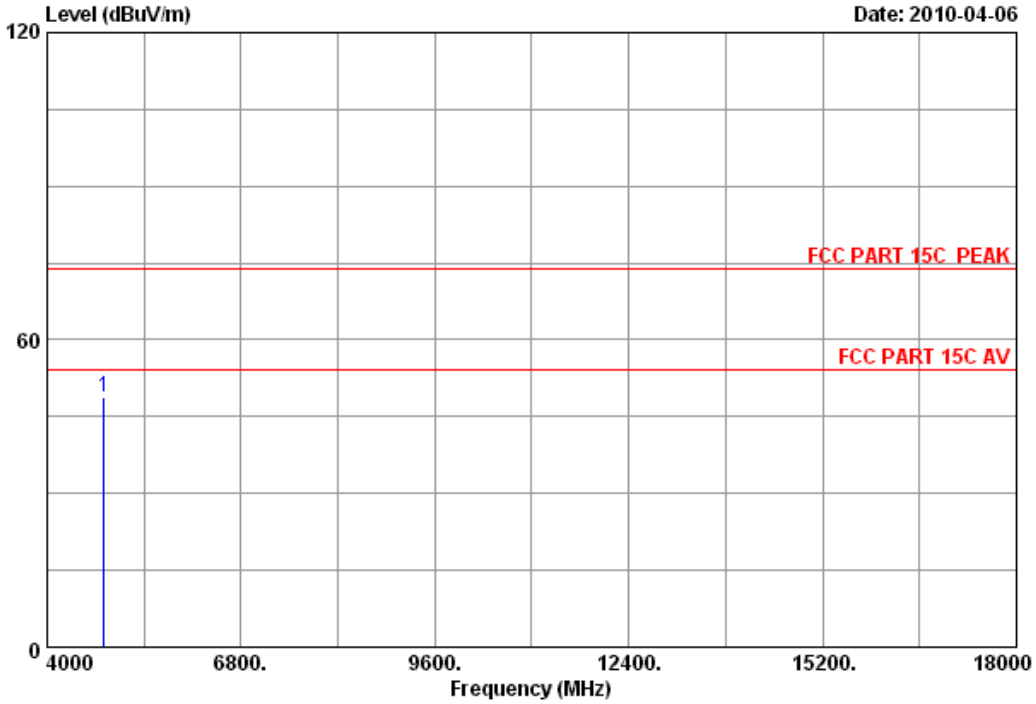
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	35.09	12.58	35.34	38.32	50.65	74.00	23.35	Peak

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




```
Site no.      : 10m Chamber                Data no. : 13
Dis. / Ant.   : 3m   3115(0905)            Ant. pol. : VERTICAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                   Engineer  : Alan Geng
EUT           : 150Mbps Wireless Lite N USB Adapter
Power         : DC 5V From PC input AC 120V/60Hz
Test mode     : IEEE802.11g  CH1  2412MHz
M/N           : AK093
              :
```

Data: 14 File: E:\2010 report data\O\ACS10Q1953.EM6 (48)

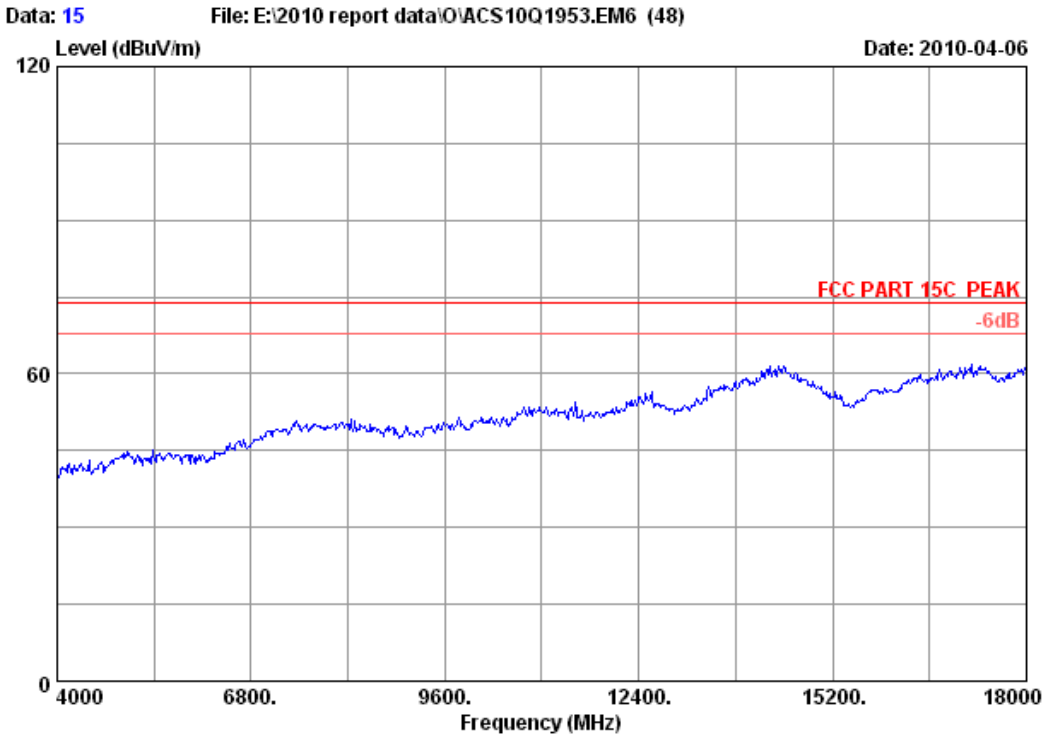



```
Site no.      : 10m Chamber                Data no. : 14
Dis. / Ant.   : 3m   3115(0905)            Ant. pol. : VERTICAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                   Engineer  : Alan Geng
EUT           : 150Mbps Wireless Lite N USB Adapter
Power         : DC 5V From PC input AC 120V/60Hz
Test mode     : IEEE802.11g  CH1  2412MHz
M/N           : AK093
              :
```

	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	4824.000	34.47	12.58	35.25	37.16	48.96	74.00	25.04	Peak

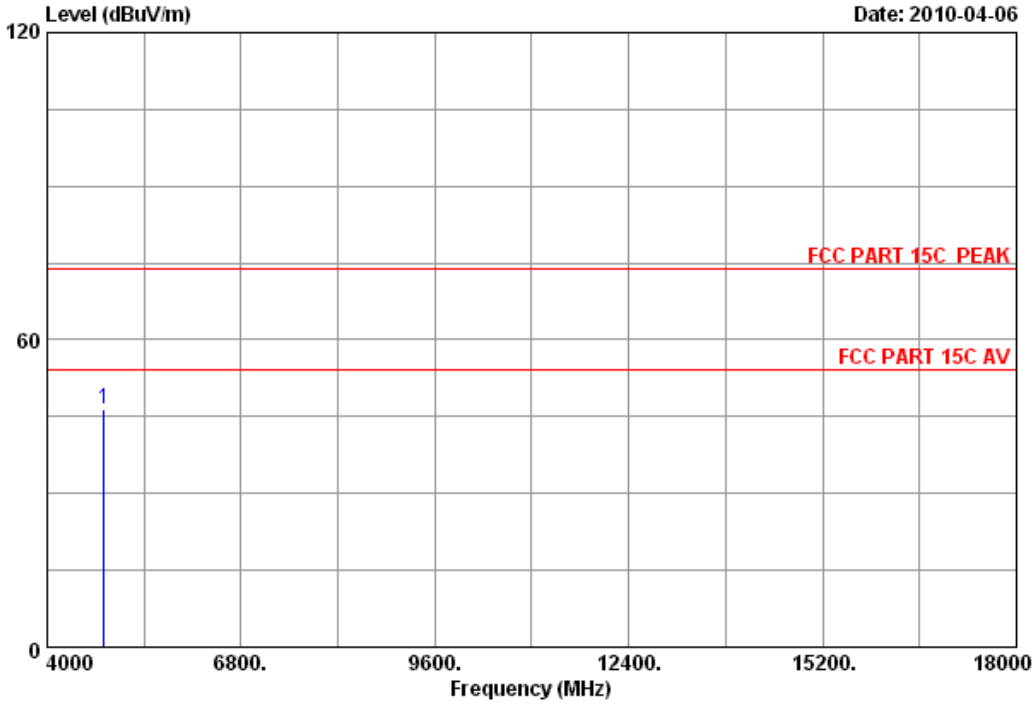
Remarks:

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(0905)            Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                   Engineer  : Alan Geng
EUT           : 150Mbps Wireless Lite N USB Adapter
Power         : DC 5V From PC input AC 120V/60Hz
Test mode     : IEEE802.11g  CH1  2412MHz
M/N           : AK093
              :
```

Data: 16 File: E:\2010 report data\O\ACS10Q1953.EM6 (48)

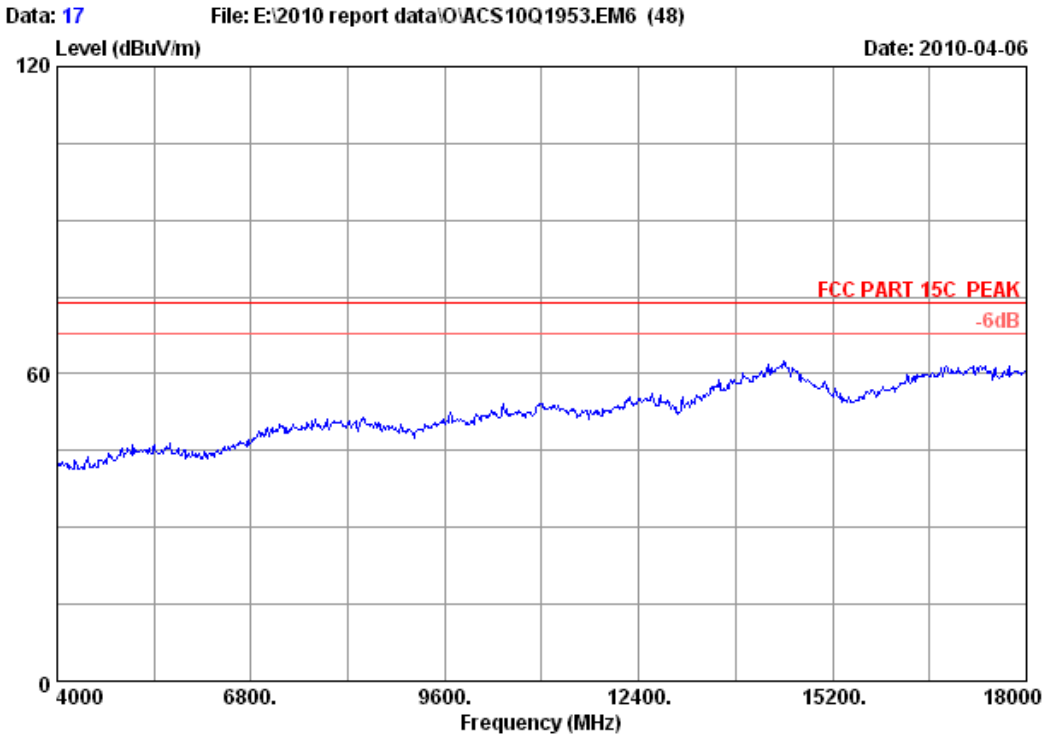



```
Site no.      : 10m Chamber                Data no. : 16
Dis. / Ant.   : 3m   3115(0905)            Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                   Engineer  : Alan Geng
EUT           : 150Mbps Wireless Lite N USB Adapter
Power         : DC 5V From PC input AC 120V/60Hz
Test mode     : IEEE802.11g  CH1  2412MHz
M/N           : AK093
              :
```

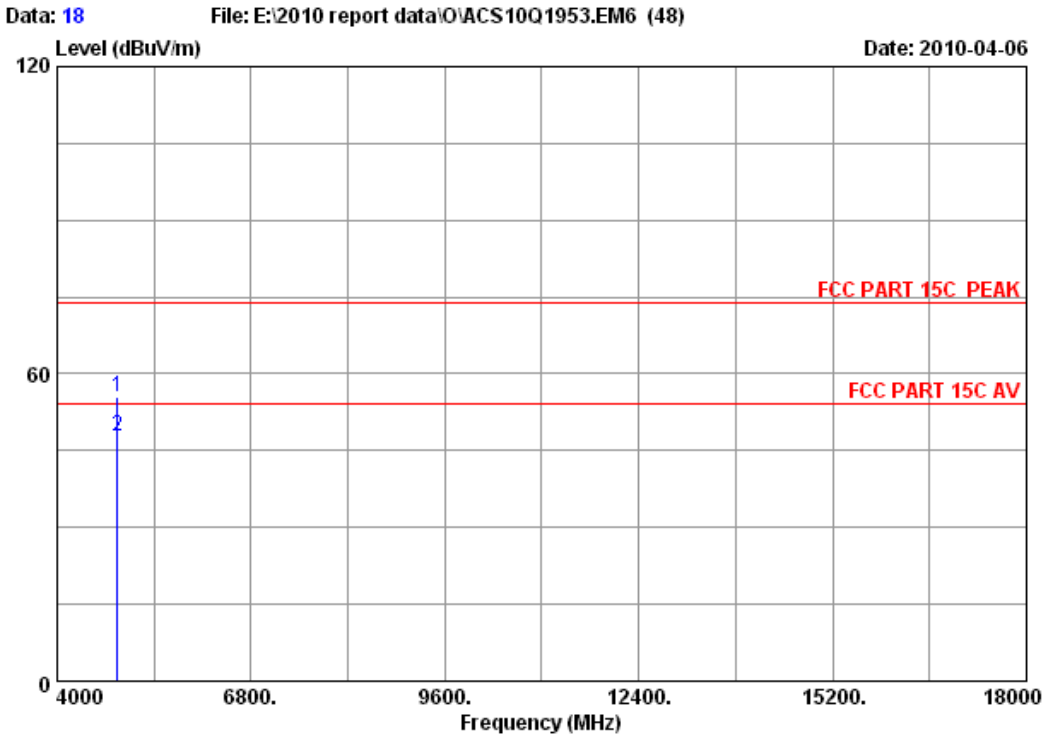
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	34.47	12.58	35.25	34.52	46.32	74.00	27.68	Peak

Remarks:

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



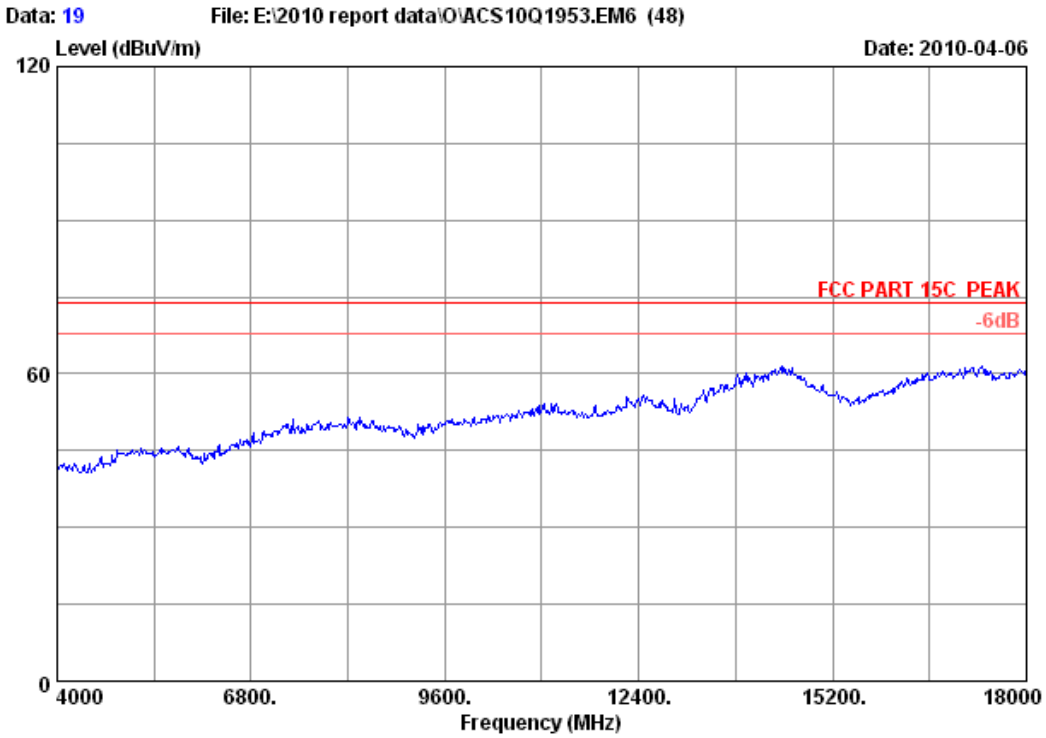

```
Site no.      : 10m Chamber                Data no. : 17
Dis. / Ant.   : 3m   3115(0905)            Ant. pol. : VERTICAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                   Engineer  : Alan Geng
EUT           : 150Mbps Wireless Lite N USB Adapter
Power         : DC 5V From PC input AC 120V/60Hz
Test mode     : IEEE802.11g  CH6  2437MHz
M/N           : AK093
              :
```



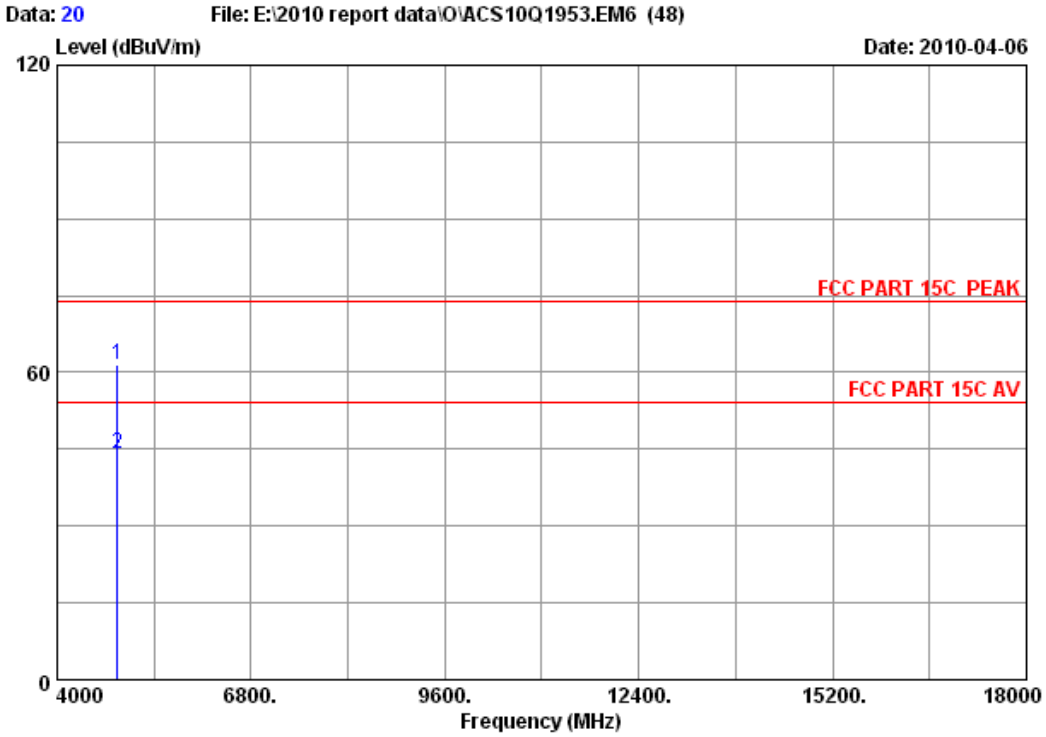
Site no. : 10m Chamber Data no. : 18
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Alan Geng
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH6 2437MHz
M/N : AK093
:

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	34.78	9.83	35.36	46.38	55.63	74.00	18.37	Peak
2	4874.000	34.78	9.83	35.36	38.68	47.93	54.00	6.07	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. : 19
Dis. / Ant.   : 3m   3115(0905)            Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                   Engineer  : Alan Geng
EUT           : 150Mbps Wireless Lite N USB Adapter
Power         : DC 5V From PC input AC 120V/60Hz
Test mode     : IEEE802.11g  CH6  2437MHz
M/N           : AK093
              :
```

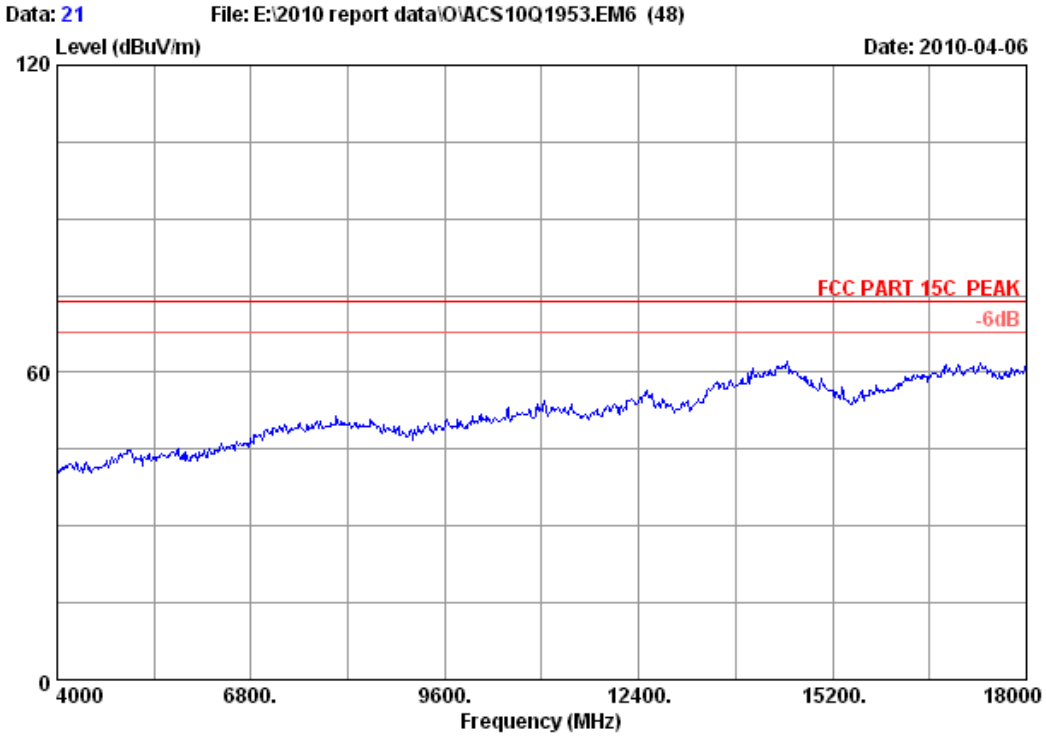



```
Site no.      : 10m Chamber              Data no. : 20
Dis. / Ant.   : 3m   3115(0905)          Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                 Engineer  : Alan Geng
EUT           : 150Mbps Wireless Lite N USB Adapter
Power         : DC 5V From PC input AC 120V/60Hz
Test mode     : IEEE802.11g  CH6  2437MHz
M/N           : AK093
              :
```

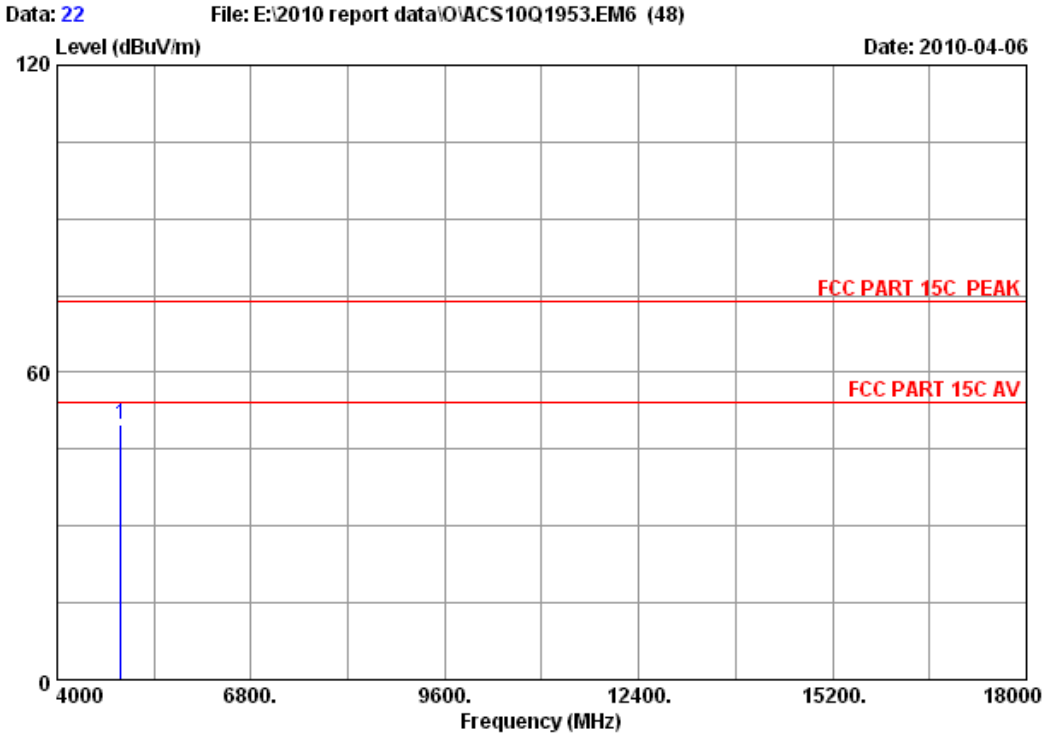
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	34.78	12.23	35.36	49.93	61.58	74.00	12.42	Peak
2	4874.000	34.78	12.23	35.36	32.55	44.20	54.00	9.80	Average

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.



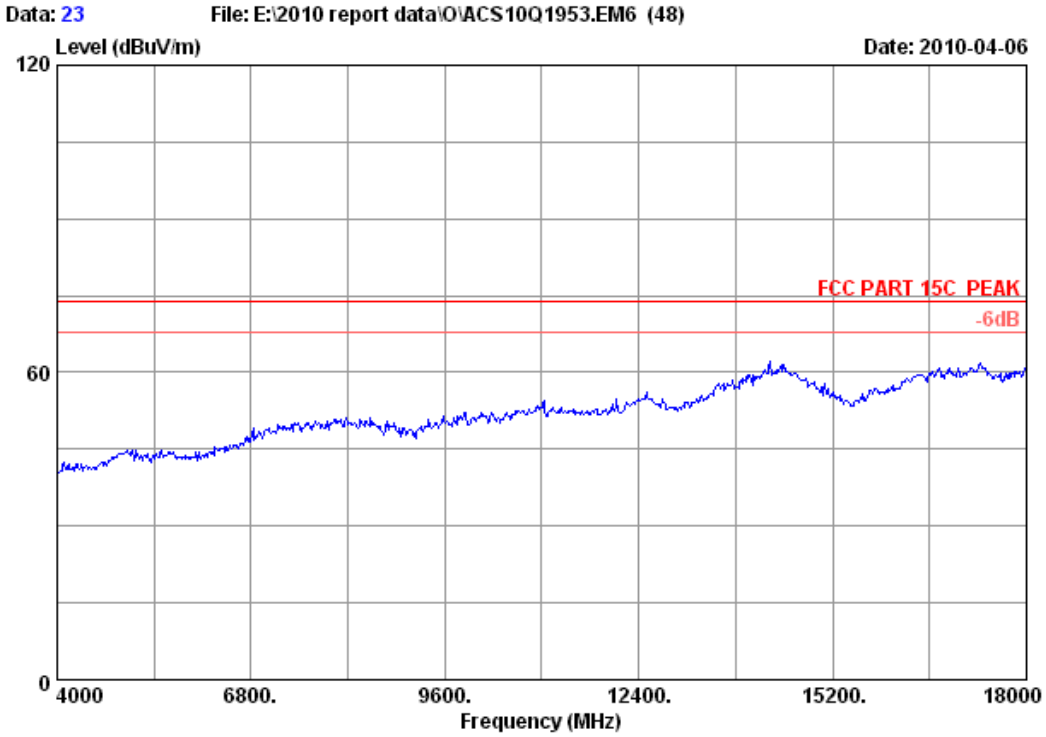

```
Site no.      : 10m Chamber              Data no. : 21
Dis. / Ant.   : 3m   3115(0905)          Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                 Engineer  : Alan Geng
EUT           : 150Mbps Wireless Lite N USB Adapter
Power         : DC 5V From PC input AC 120V/60Hz
Test mode     : IEEE802.11g  CH11  2462MHz
M/N           : AK093
              :
```



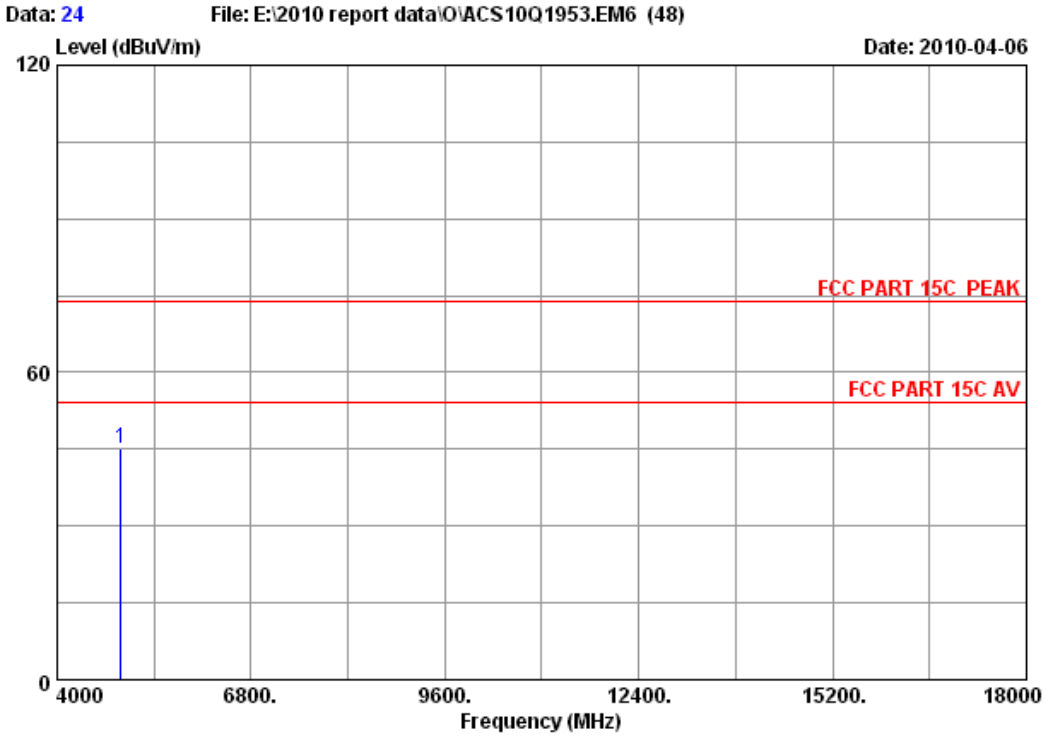
Site no. : 10m Chamber Data no. : 22
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Alan Geng
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz
M/N : AK093
:

	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	4924.000	35.09	12.58	35.34	37.60	49.93	74.00	24.07	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.



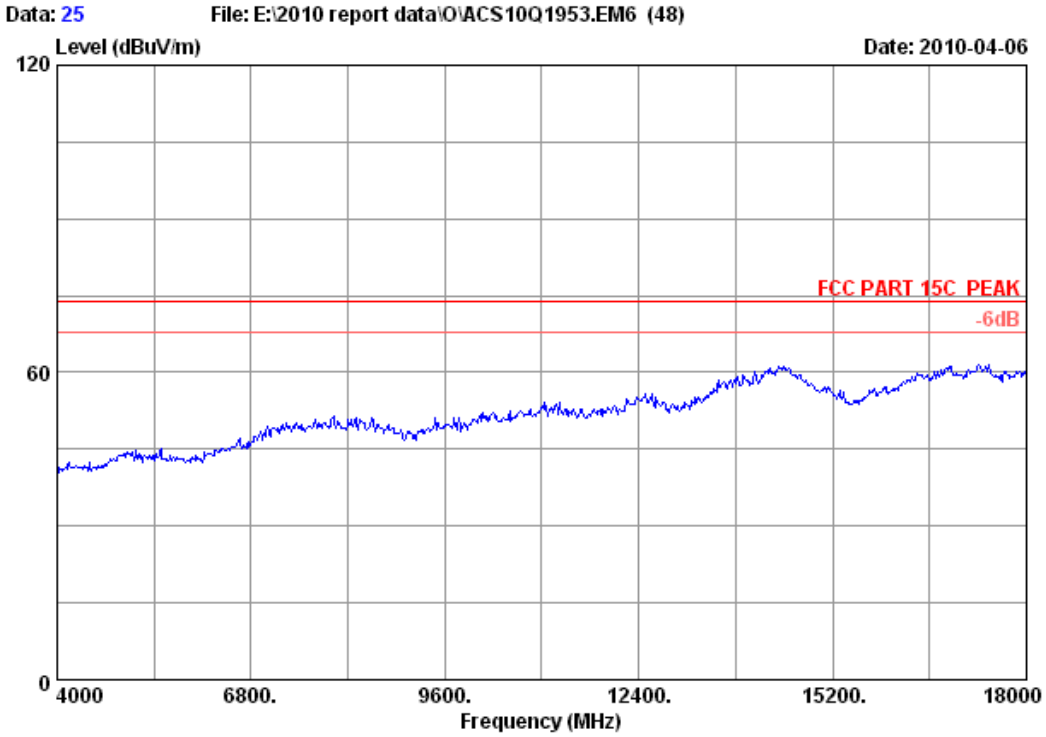

```
Site no.      : 10m Chamber                Data no. : 23
Dis. / Ant.   : 3m   3115(0905)            Ant. pol. : VERTICAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                   Engineer  : Alan Geng
EUT           : 150Mbps Wireless Lite N USB Adapter
Power         : DC 5V From PC input AC 120V/60Hz
Test mode     : IEEE802.11g  CH11  2462MHz
M/N           : AK093
              :
```



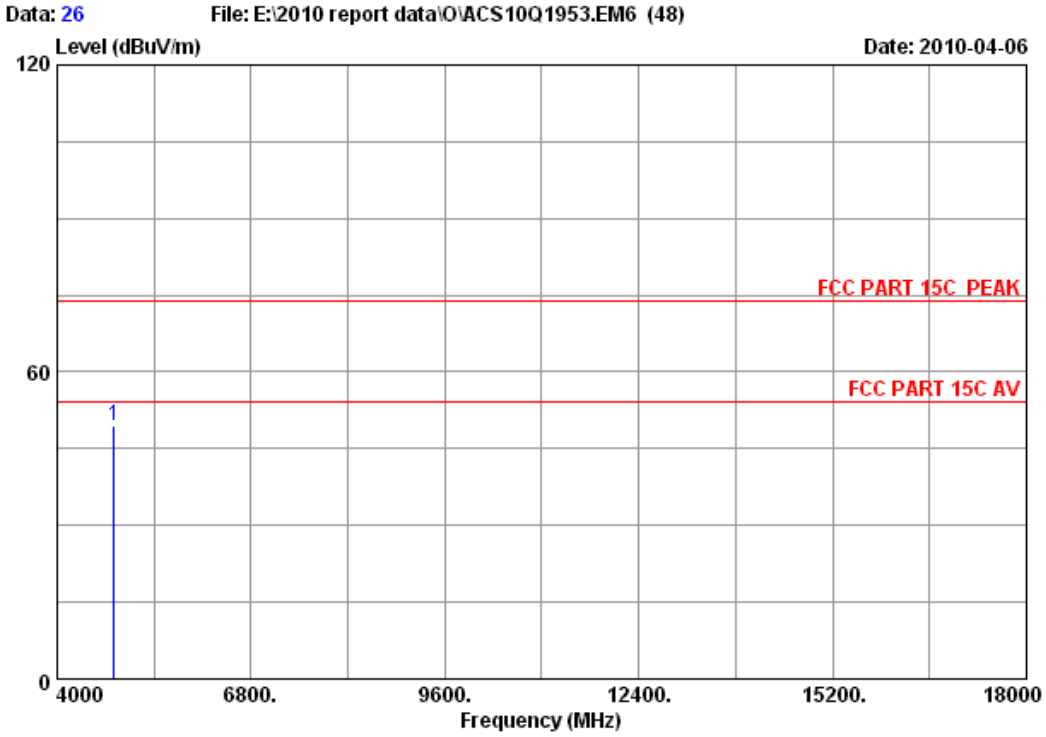
Site no. : 10m Chamber Data no. : 24
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Alan Geng
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz
M/N : AK093
:

	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	4924.000	35.09	12.58	35.34	32.79	45.12	74.00	28.88	Peak

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



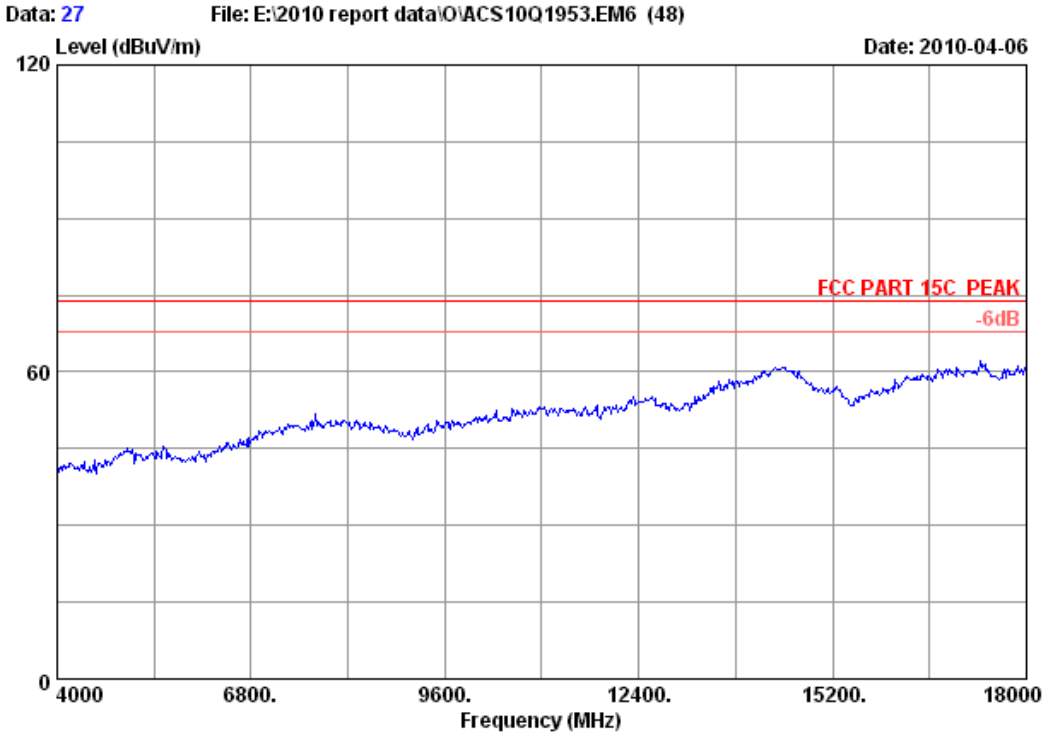

```
Site no.      : 10m Chamber                Data no. : 25
Dis. / Ant.   : 3m   3115(0905)            Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                   Engineer  : Alan Geng
EUT           : 150Mbps Wireless Lite N USB Adapter
Power         : DC 5V From PC input AC 120V/60Hz
Test mode     : IEEE802. HT20  CH1  2412MHz
M/N           : AK093
              :
```



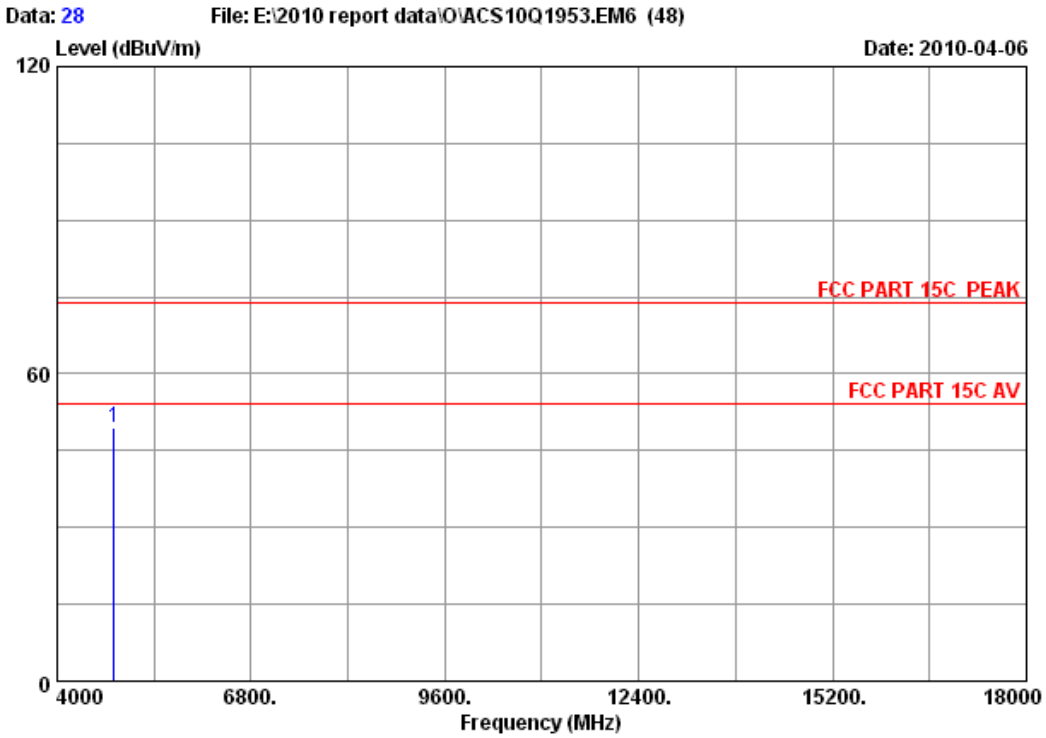
Site no. : 10m Chamber Data no. : 26
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Alan Geng
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802. HT20 CH1 2412MHz
M/N : AK093
:

	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	4824.000	34.47	12.58	35.25	37.54	49.34	74.00	24.66	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.



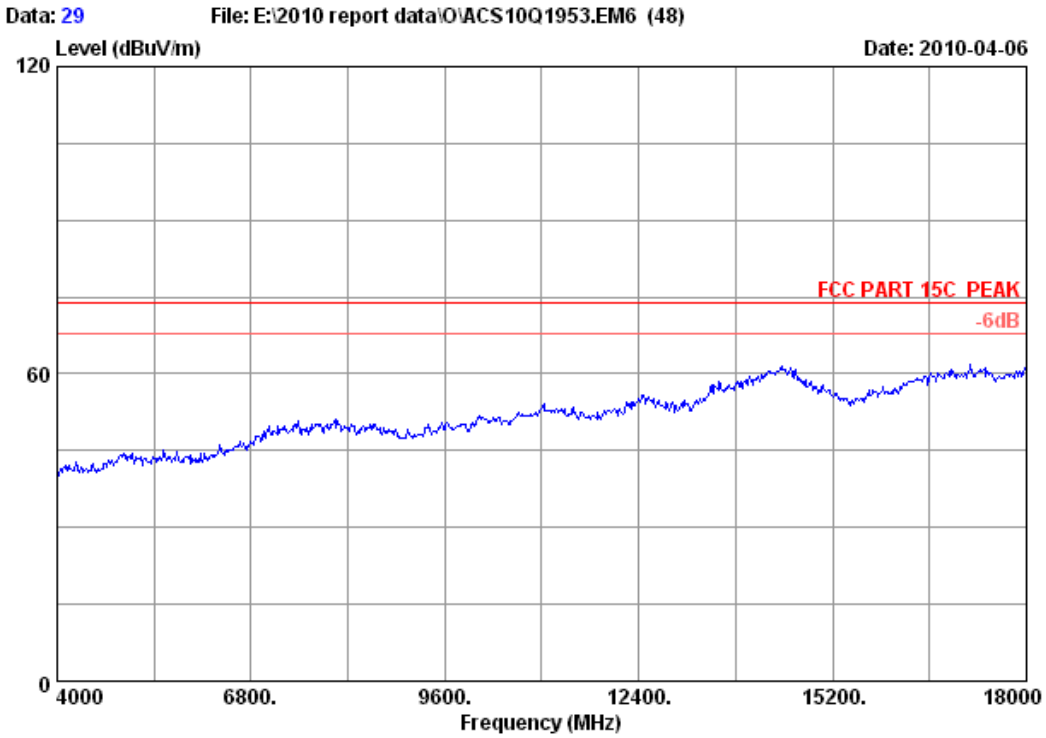

```
Site no.      : 10m Chamber                Data no. : 27
Dis. / Ant.   : 3m   3115(0905)            Ant. pol. : VERTICAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                   Engineer  : Alan Geng
EUT           : 150Mbps Wireless Lite N USB Adapter
Power         : DC 5V From PC input AC 120V/60Hz
Test mode     : IEEE802. HT20  CH1  2412MHz
M/N           : AK093
              :
```



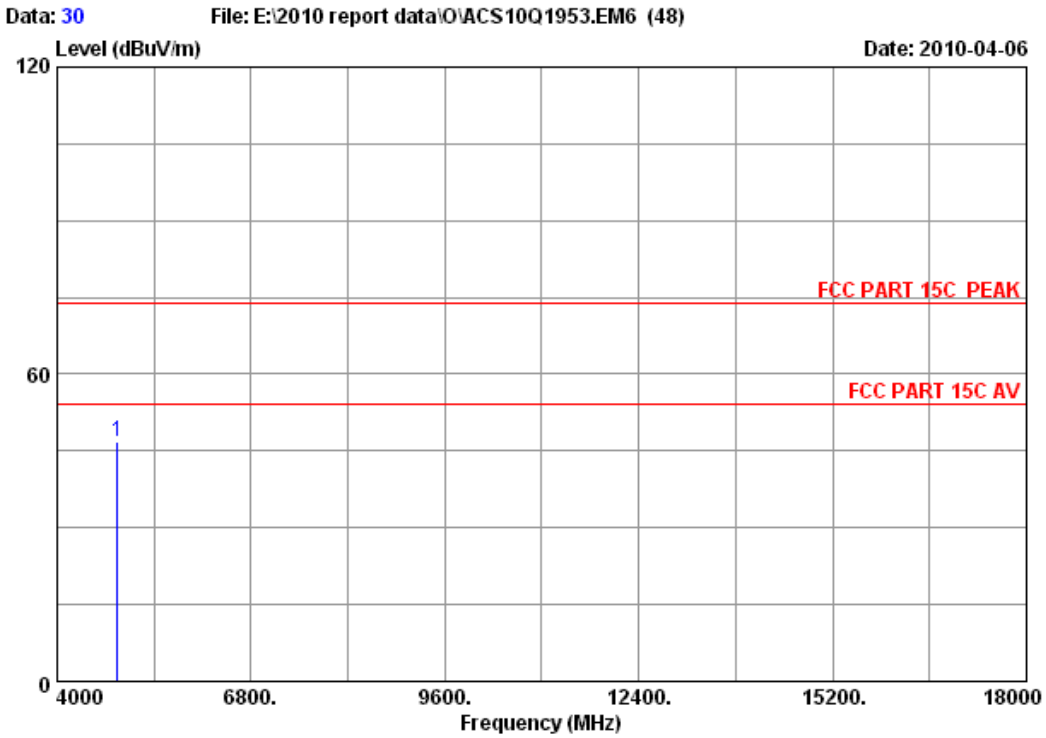
Site no. : 10m Chamber Data no. : 28
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Alan Geng
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802. HT20 CH1 2412MHz
M/N : AK093
:

	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	4824.000	34.47	12.58	35.25	37.62	49.42	74.00	24.58	Peak

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



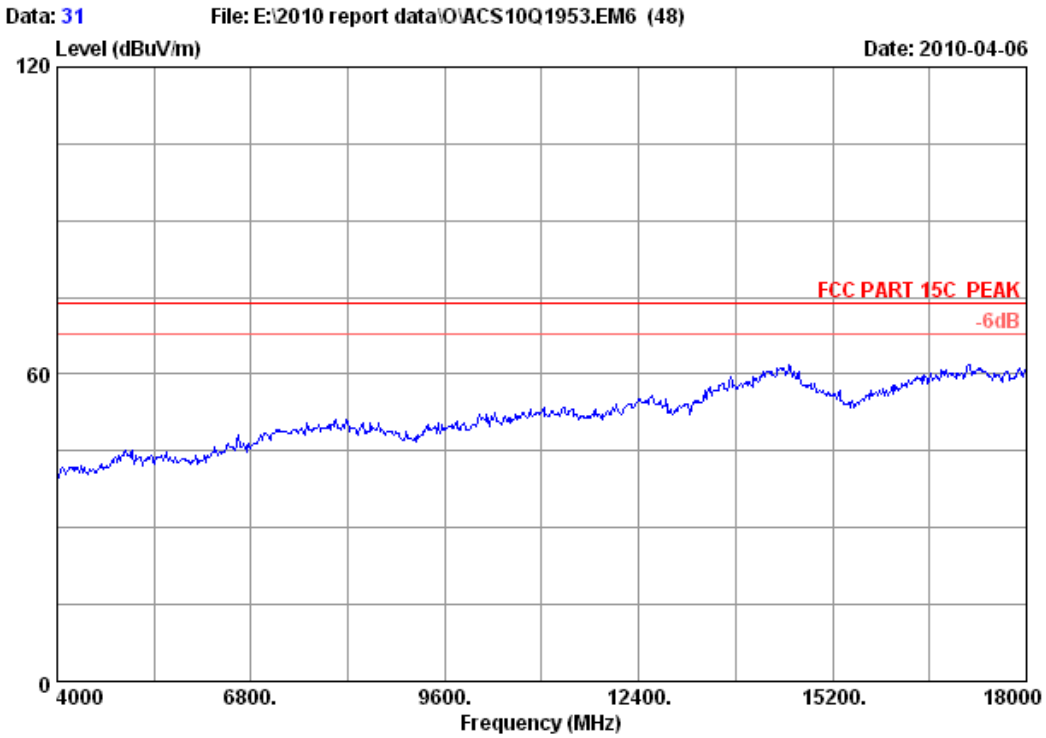

```
Site no.      : 10m Chamber                Data no. : 29
Dis. / Ant.   : 3m   3115(0905)            Ant. pol. : VERTICAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                   Engineer  : Alan Geng
EUT           : 150Mbps Wireless Lite N USB Adapter
Power         : DC 5V From PC input AC 120V/60Hz
Test mode     : IEEE802. 11nHT20  CH6  2437MHz
M/N           : AK093
              :
```



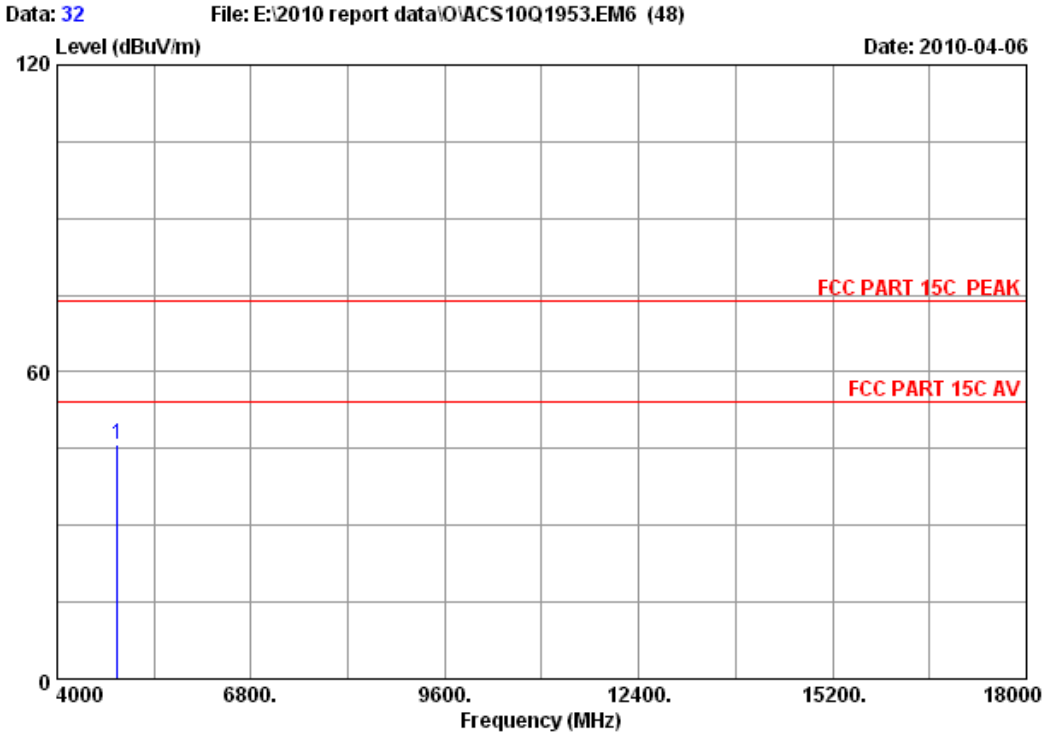
Site no. : 10m Chamber Data no. : 30
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Alan Geng
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802. 11nHT20 CH6 2437MHz
M/N : AK093
:

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	34.78	12.23	35.36	34.99	46.64	74.00	27.36	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. : 31
Dis. / Ant.   : 3m   3115(0905)          Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                 Engineer  : Alan Geng
EUT           : 150Mbps Wireless Lite N USB Adapter
Power         : DC 5V From PC input AC 120V/60Hz
Test mode     : IEEE802. 11nHT20  CH6  2437MHz
M/N           : AK093
              :
```

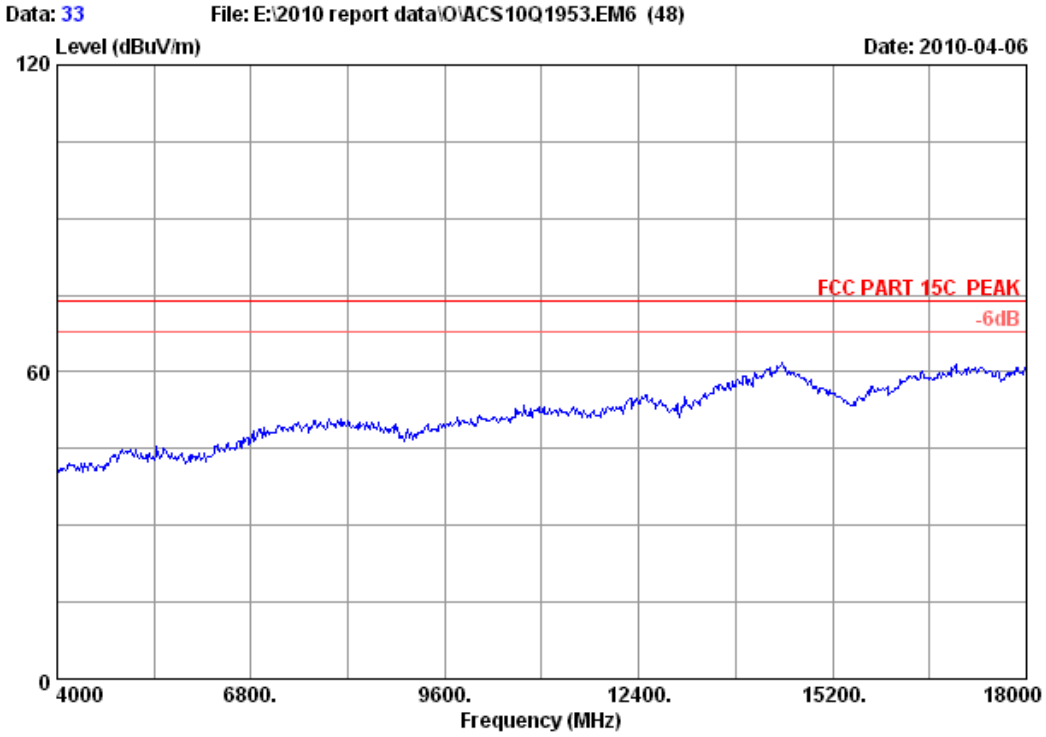



```
Site no.      : 10m Chamber                Data no. : 32
Dis. / Ant.   : 3m   3115(0905)            Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                   Engineer  : Alan Geng
EUT           : 150Mbps Wireless Lite N USB Adapter
Power         : DC 5V From PC input AC 120V/60Hz
Test mode     : IEEE802. 11nHT20  CH6  2437MHz
M/N           : AK093
              :
```

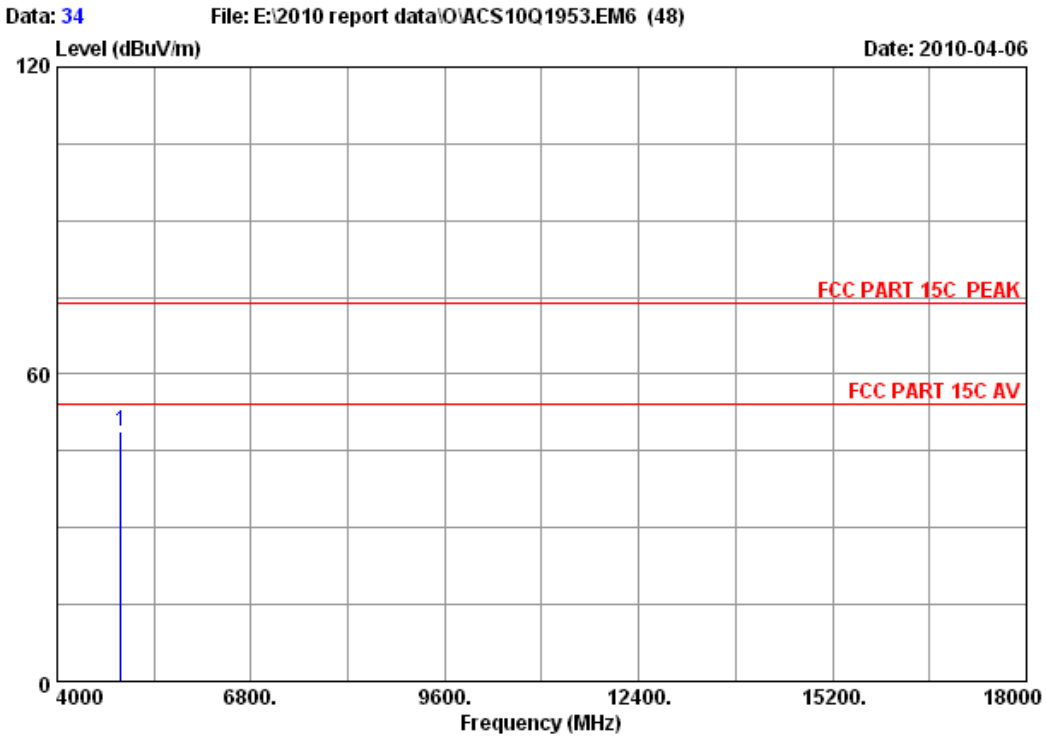
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	34.78	12.23	35.36	34.18	45.83	74.00	28.17	Peak

Remarks:

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



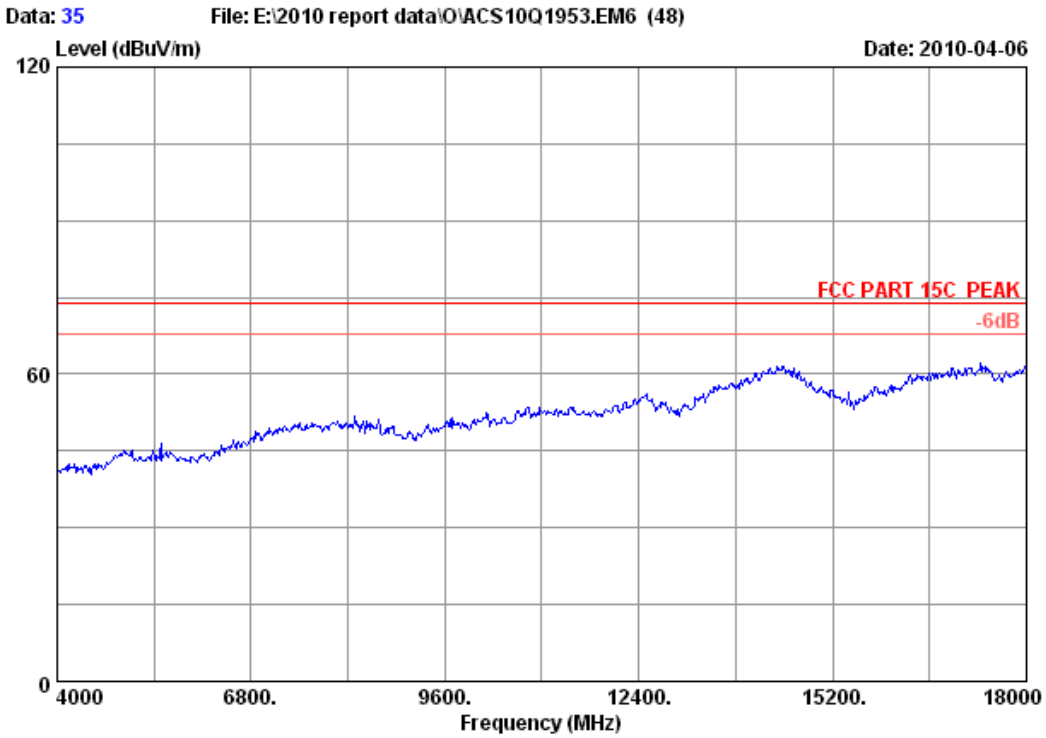

```
Site no.      : 10m Chamber                Data no. : 33
Dis. / Ant.   : 3m   3115(0905)            Ant. pol. : VERTICAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                   Engineer  : Alan Geng
EUT           : 150Mbps Wireless Lite N USB Adapter
Power         : DC 5V From PC input AC 120V/60Hz
Test mode     : IEEE802. 11nHT20  CH11  2462MHz
M/N           : AK093
              :
```



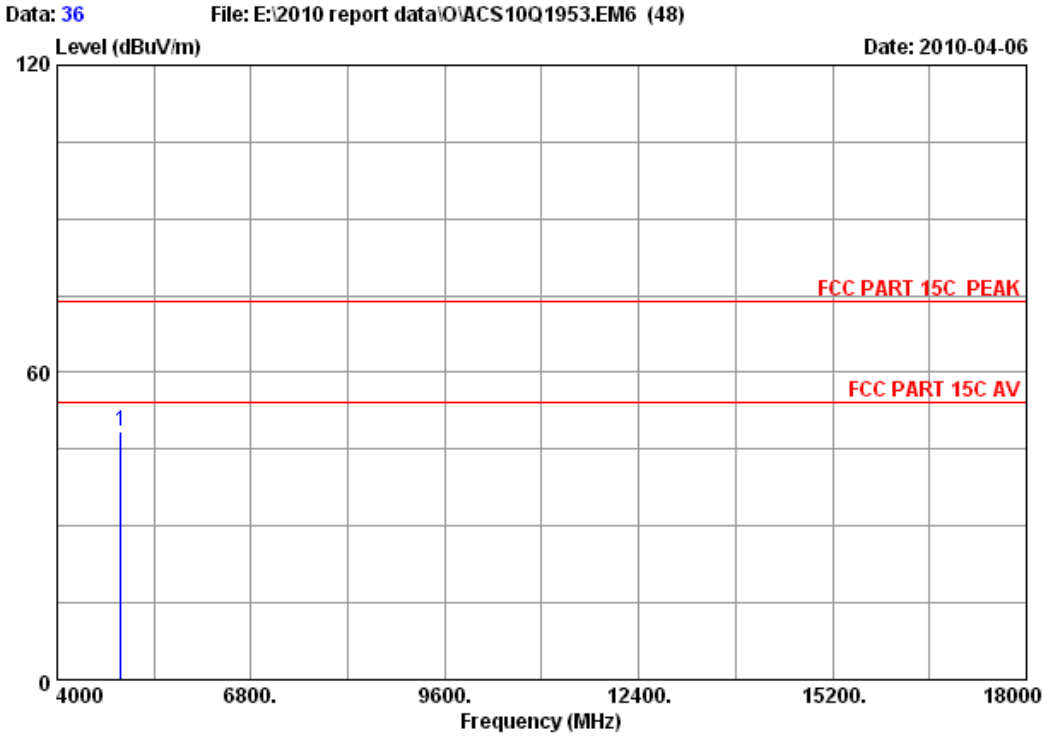
Site no. : 10m Chamber Data no. : 34
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Alan Geng
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802. 11nHT20 CH11 2462MHz
M/N : AK093
:

	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	4924.000	35.09	12.58	35.34	36.41	48.74	74.00	25.26	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.



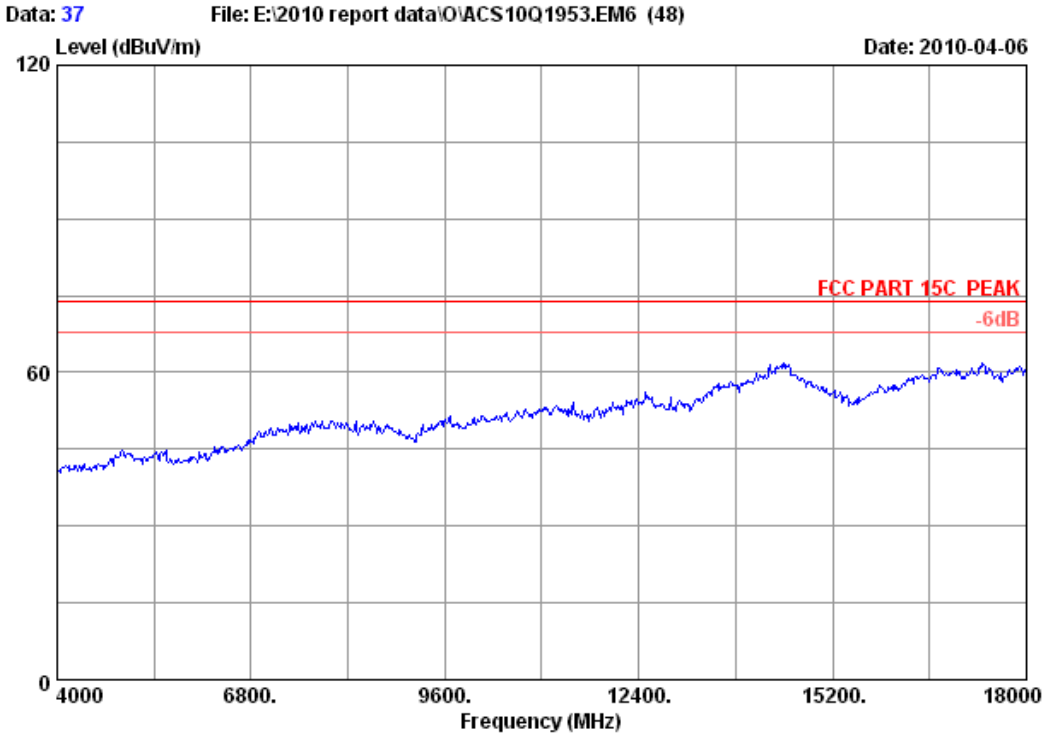

```
Site no.      : 10m Chamber                Data no. : 35
Dis. / Ant.   : 3m   3115(0905)           Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                   Engineer  : Alan Geng
EUT           : 150Mbps Wireless Lite N USB Adapter
Power         : DC 5V From PC input AC 120V/60Hz
Test mode     : IEEE802. 11nHT20  CH11  2462MHz
M/N           : AK093
              :
```



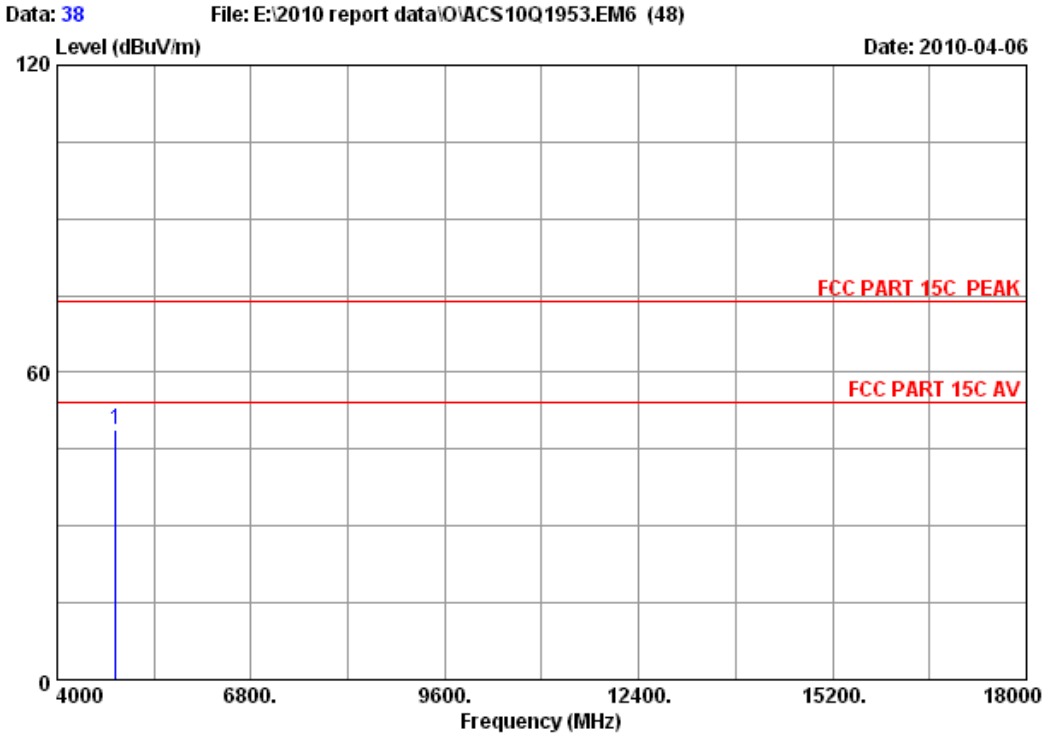
Site no. : 10m Chamber Data no. : 36
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Alan Geng
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802. 11nHT20 CH11 2462MHz
M/N : AK093
:

	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	4924.000	35.09	12.58	35.34	36.17	48.50	74.00	25.50	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.



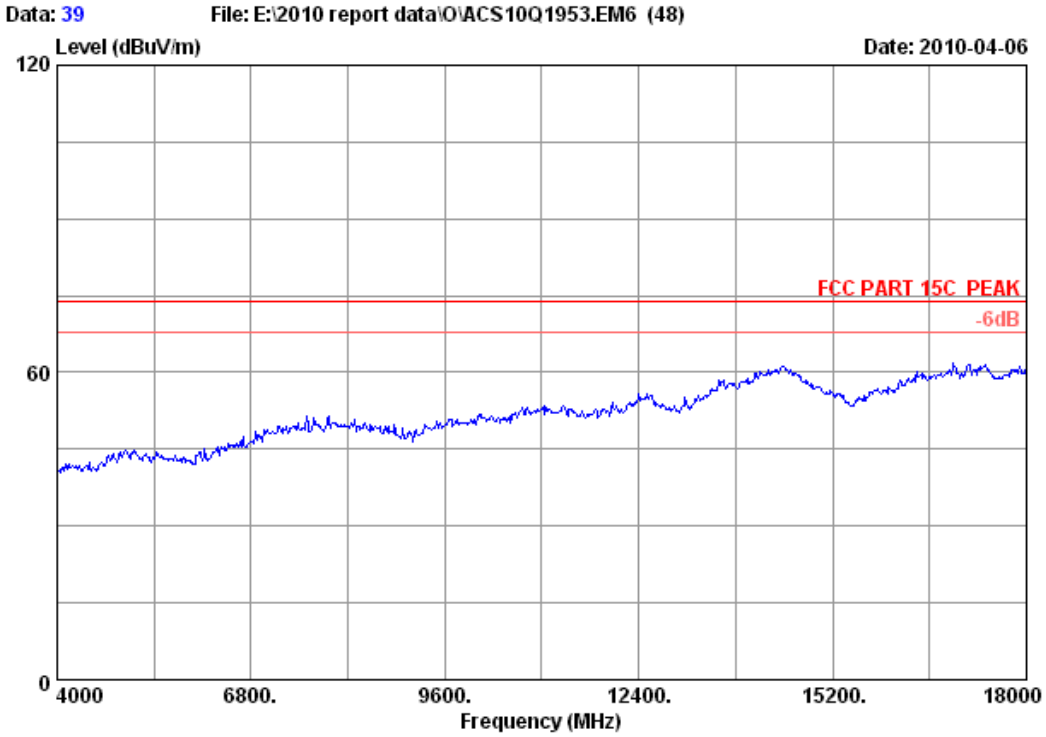

```
Site no.      : 10m Chamber                Data no. : 37
Dis. / Ant.   : 3m   3115(0905)            Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                   Engineer  : Alan Geng
EUT           : 150Mbps Wireless Lite N USB Adapter
Power         : DC 5V From PC input AC 120V/60Hz
Test mode     : IEEE802. 11nHT40  CH1  2422MHz
M/N           : AK093
              :
```



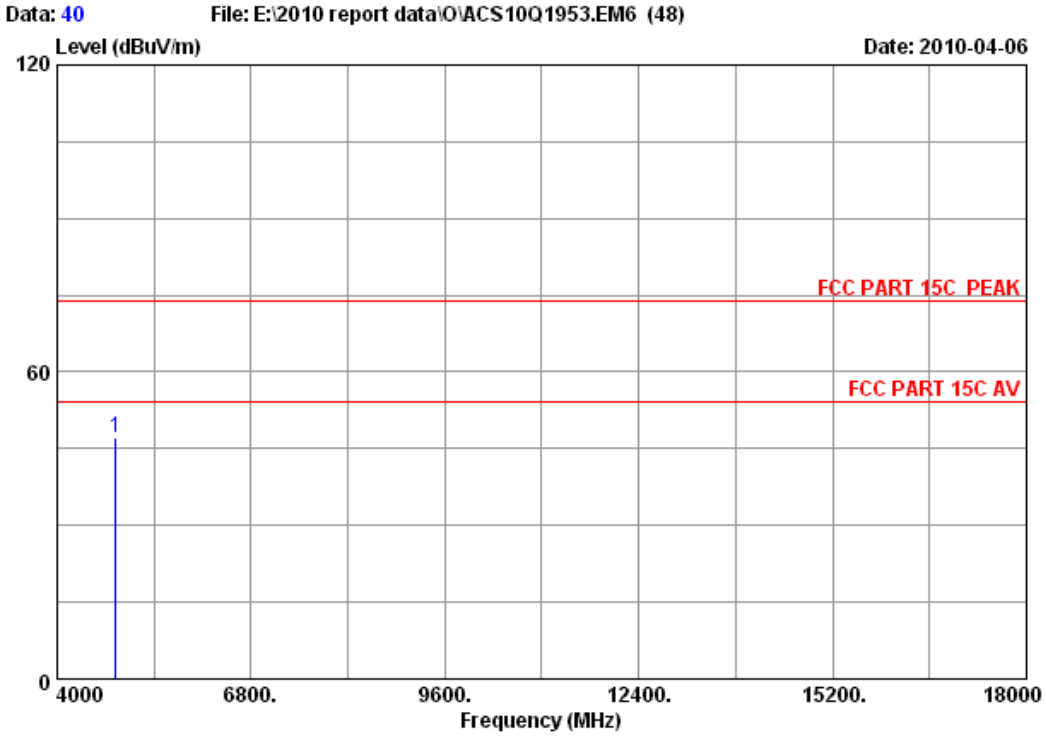
Site no. : 10m Chamber Data no. : 38
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Alan Geng
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802. 11nHT40 CH1 2422MHz
M/N : AK093
:

	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	4844.000	34.57	12.45	35.25	37.10	48.87	74.00	25.13	Peak

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



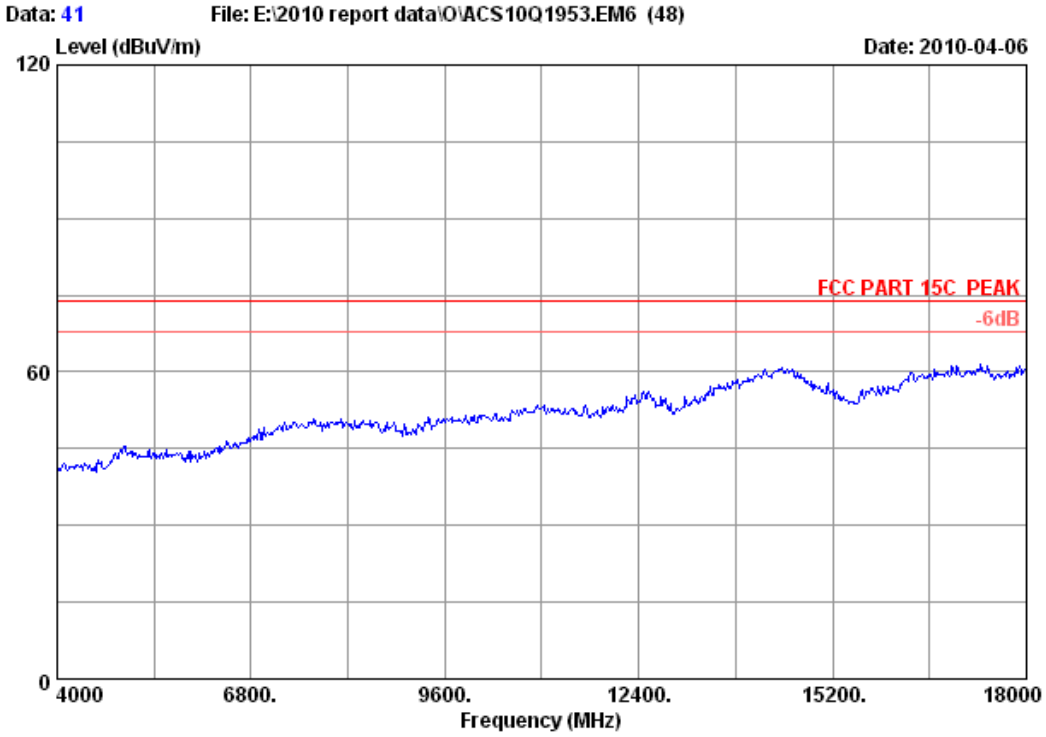

```
Site no.      : 10m Chamber                Data no. : 39
Dis. / Ant.   : 3m   3115(0905)            Ant. pol. : VERTICAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                   Engineer  : Alan Geng
EUT           : 150Mbps Wireless Lite N USB Adapter
Power         : DC 5V From PC input AC 120V/60Hz
Test mode     : IEEE802. 11nHT40  CH1  2422MHz
M/N           : AK093
              :
```



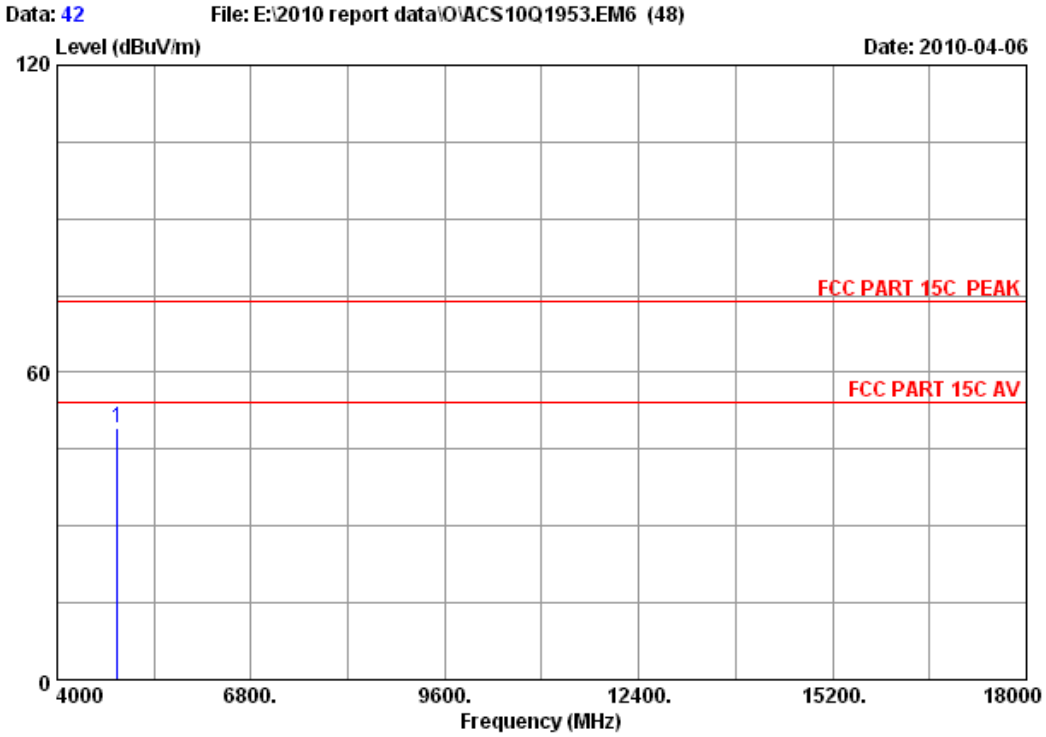

```
Site no.      : 10m Chamber                Data no. : 40
Dis. / Ant.   : 3m   3115(0905)            Ant. pol. : VERTICAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                   Engineer  : Alan Geng
EUT           : 150Mbps Wireless Lite N USB Adapter
Power         : DC 5V From PC input AC 120V/60Hz
Test mode     : IEEE802. 11nHT40  CH1  2422MHz
M/N           : AK093
              :
```

	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	4844.000	34.57	12.45	35.25	35.47	47.24	74.00	26.76	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. : 41
Dis. / Ant.   : 3m   3115(0905)            Ant. pol. : VERTICAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                   Engineer  : Alan Geng
EUT           : 150Mbps Wireless Lite N USB Adapter
Power         : DC 5V From PC input AC 120V/60Hz
Test mode     : IEEE802. 11nHT40  CH4  2437MHz
M/N           : AK093
              :
```

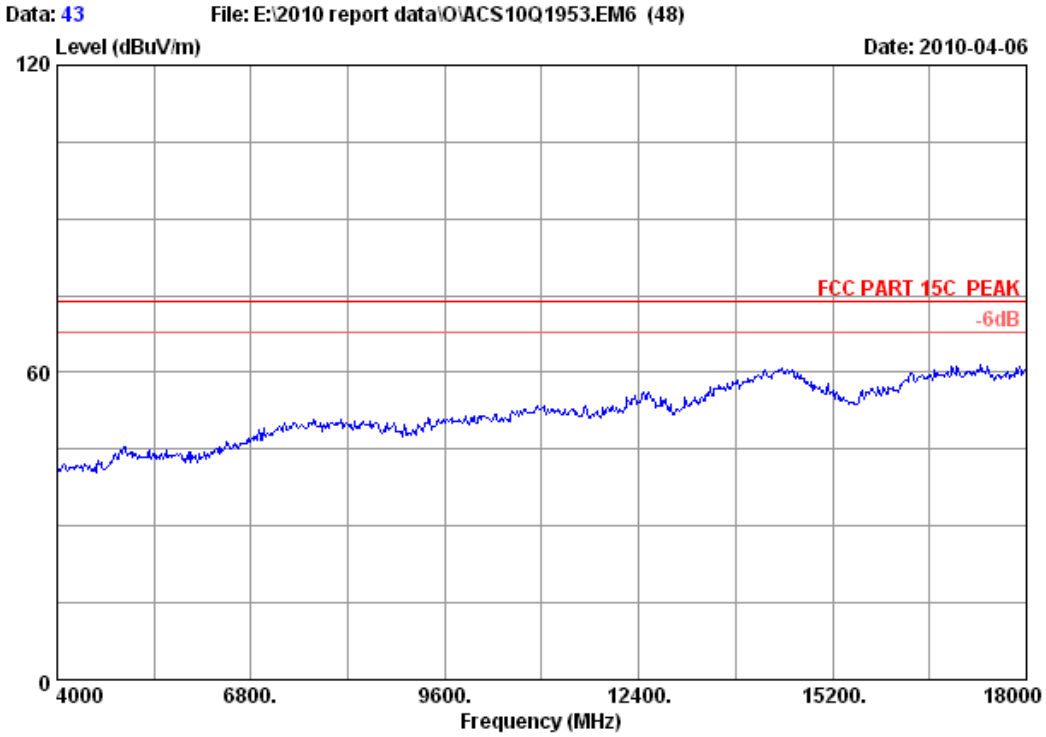



```
Site no.      : 10m Chamber              Data no. : 42
Dis. / Ant.   : 3m   3115(0905)          Ant. pol. : VERTICAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                 Engineer  : Alan Geng
EUT           : 150Mbps Wireless Lite N USB Adapter
Power         : DC 5V From PC input AC 120V/60Hz
Test mode     : IEEE802. 11nHT40  CH4  2437MHz
M/N           : AK093
              :
```

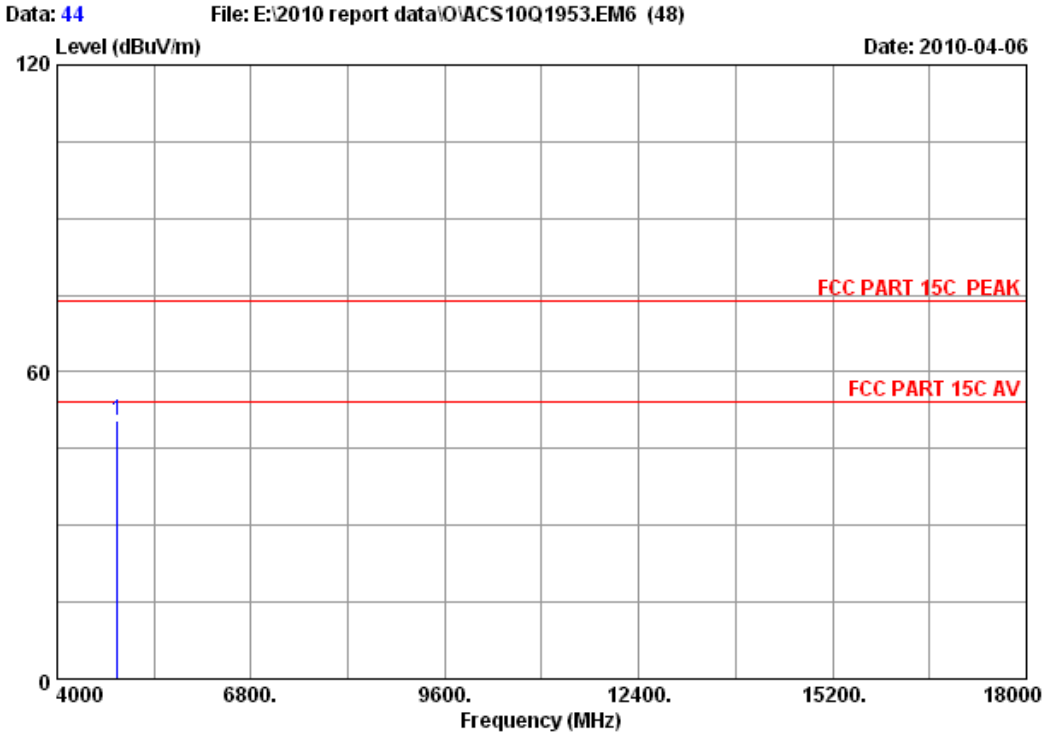
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	34.78	12.23	35.36	37.48	49.13	74.00	24.87	Peak

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.



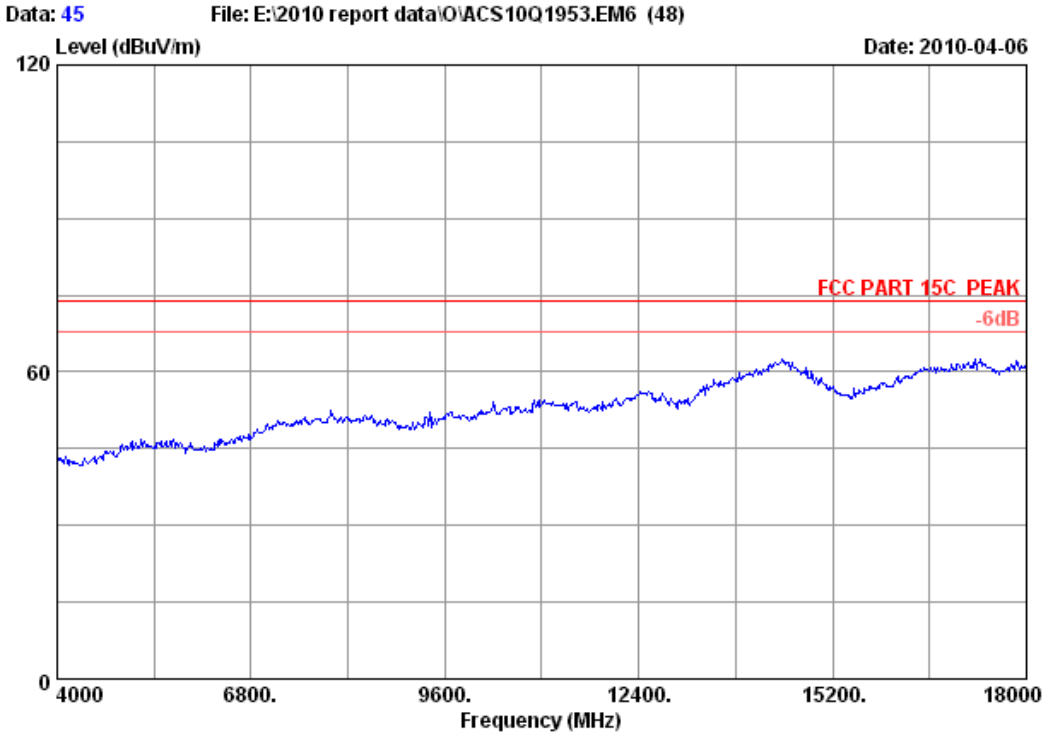

```
Site no.      : 10m Chamber                Data no. : 43
Dis. / Ant.   : 3m   3115(0905)            Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                   Engineer  : Alan Geng
EUT           : 150Mbps Wireless Lite N USB Adapter
Power         : DC 5V From PC input AC 120V/60Hz
Test mode     : IEEE802. 11nHT40  CH4  2437MHz
M/N           : AK093
              :
```



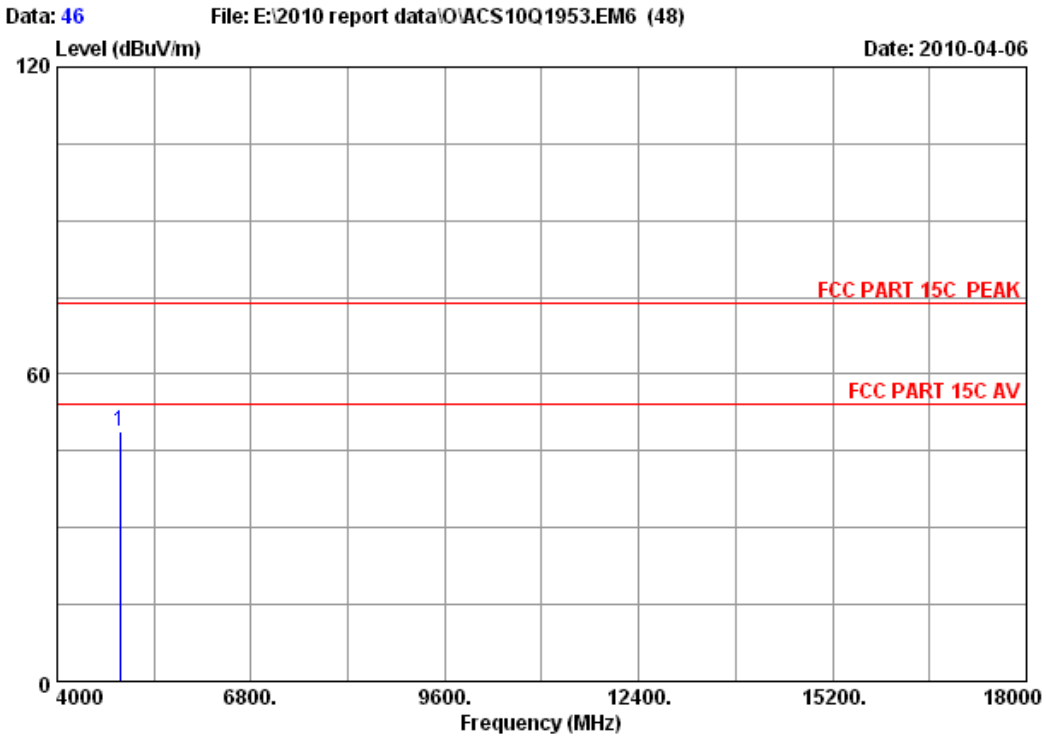

```
Site no.      : 10m Chamber                Data no. : 44
Dis. / Ant.   : 3m   3115(0905)            Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                   Engineer  : Alan Geng
EUT           : 150Mbps Wireless Lite N USB Adapter
Power         : DC 5V From PC input AC 120V/60Hz
Test mode     : IEEE802. 11nHT40  CH4  2437MHz
M/N           : AK093
              :
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	34.78	12.23	35.36	38.66	50.31	74.00	23.69	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.



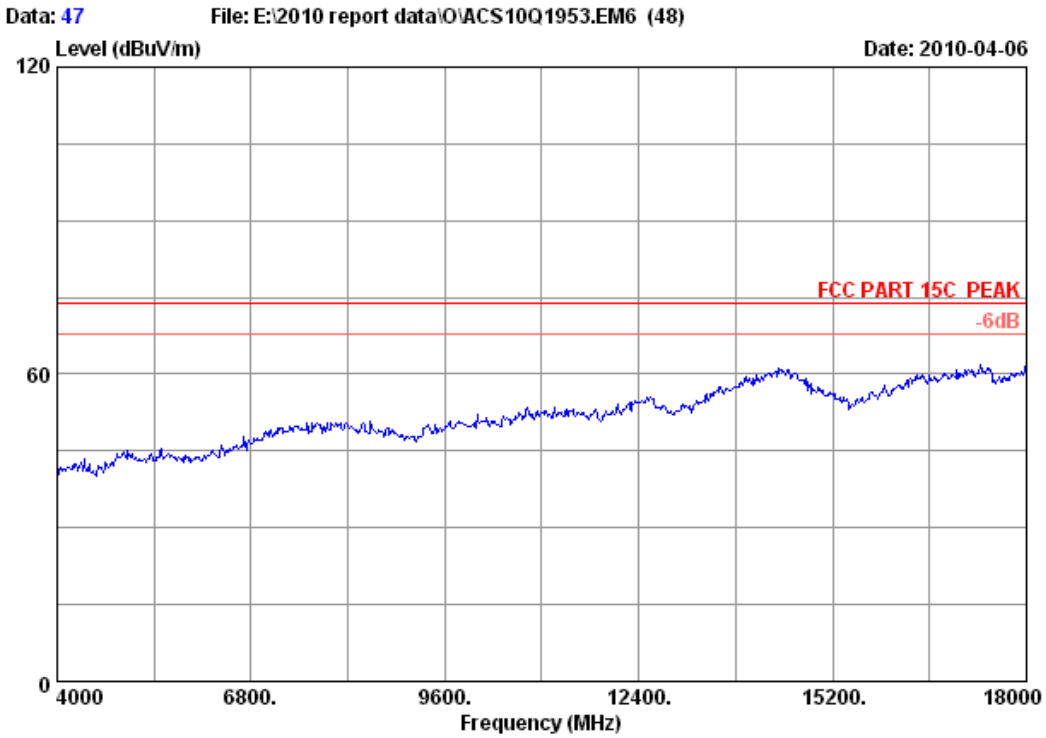

```
Site no.      : 10m Chamber                Data no. : 45
Dis. / Ant.   : 3m   3115(0905)            Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                   Engineer  : Alan Geng
EUT           : 150Mbps Wireless Lite N USB Adapter
Power         : DC 5V From PC input AC 120V/60Hz
Test mode     : IEEE802. 11nHT40  CH7  2452MHz
M/N           : AK093
              :
```



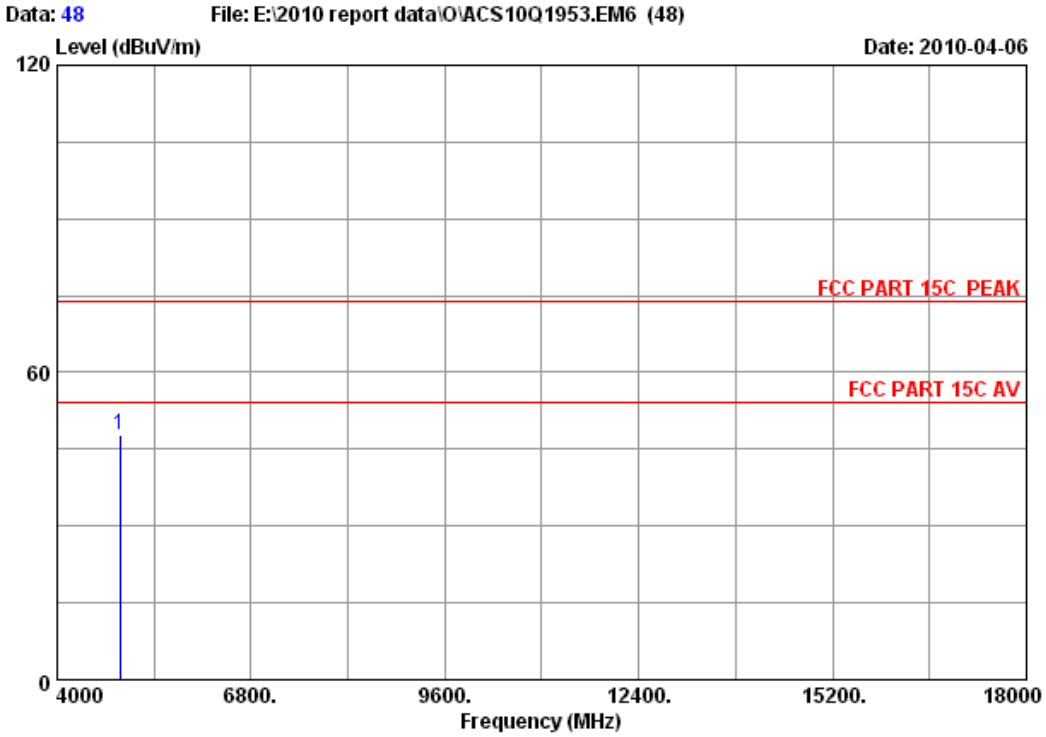
Site no. : 10m Chamber Data no. : 46
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Alan Geng
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802. 11nHT40 CH7 2452MHz
M/N : AK093
:

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4904.000	34.98	12.43	35.27	36.63	48.77	74.00	25.23	Peak

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



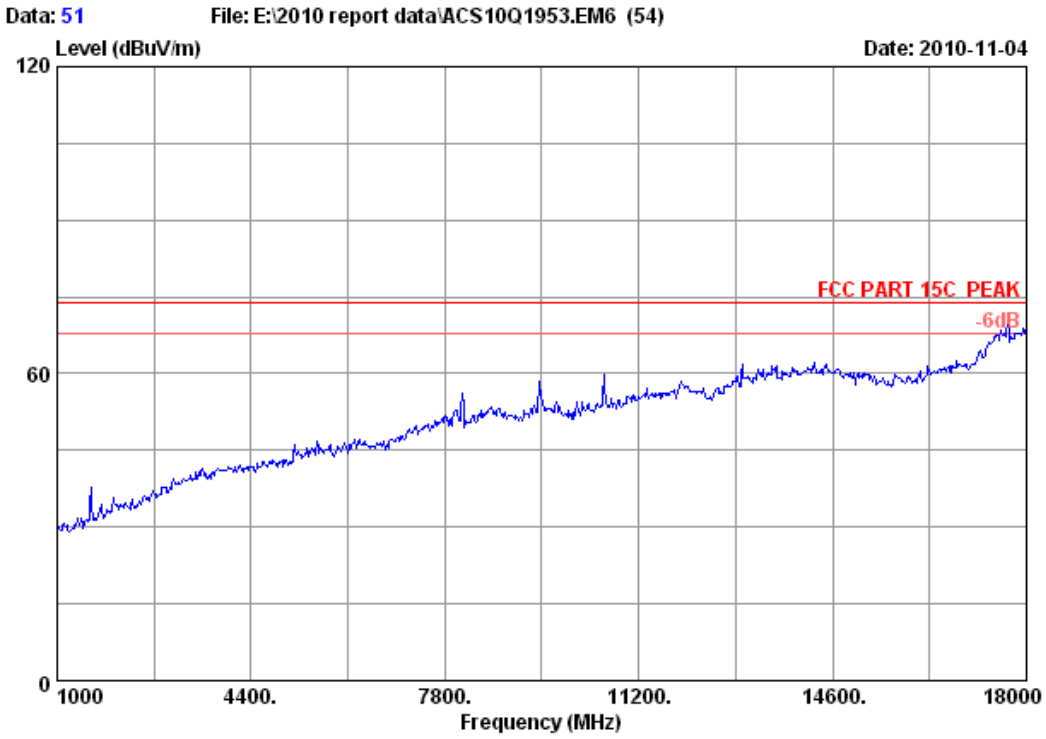

```
Site no.      : 10m Chamber              Data no. : 47
Dis. / Ant.   : 3m   3115(0905)          Ant. pol. : VERTICAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                 Engineer  : Alan Geng
EUT           : 150Mbps Wireless Lite N USB Adapter
Power         : DC 5V From PC input AC 120V/60Hz
Test mode     : IEEE802. 11nHT40  CH7  2452MHz
M/N           : AK093
              :
```



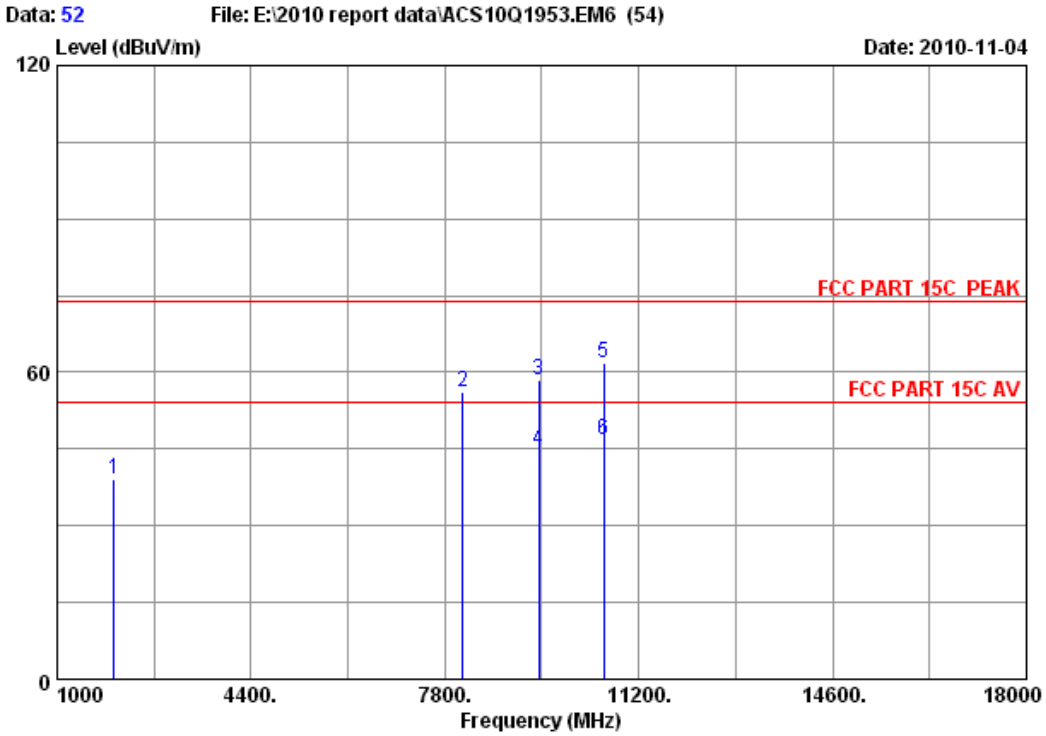
Site no. : 10m Chamber Data no. : 48
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Alan Geng
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802. 11nHT40 CH7 2452MHz
M/N : AK093
:

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4904.000	34.98	12.43	35.27	35.64	47.78	74.00	26.22	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.



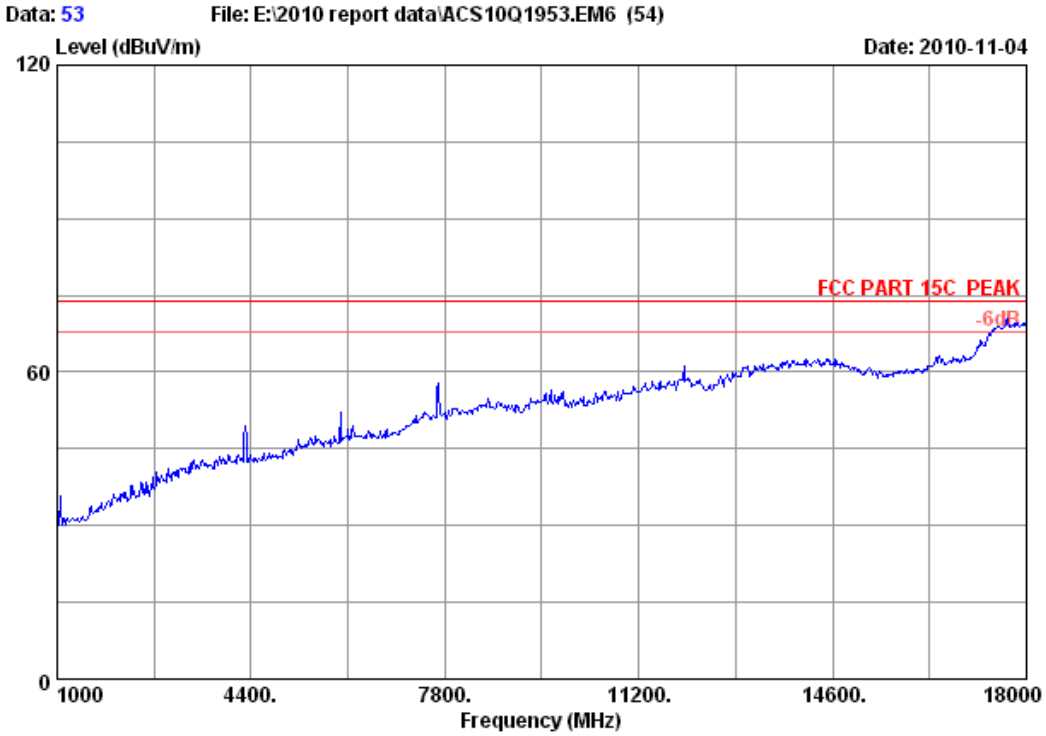
Site no.	: 3m Chamber	Data no.	: 51
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23*C/54%	Engineer	: Paul Tian
EUT	: 150Mbps Wireless lite N USB Adapter		
Power	: DC 5V From PC input AC 120V/60Hz		
Test mode	: Rx Mode		
M/N	: AK093		



Site no. : 3m Chamber Data no. : 52
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Paul Tian
EUT : 150Mbps Wireless lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : Rx Mode
M/N : AK093

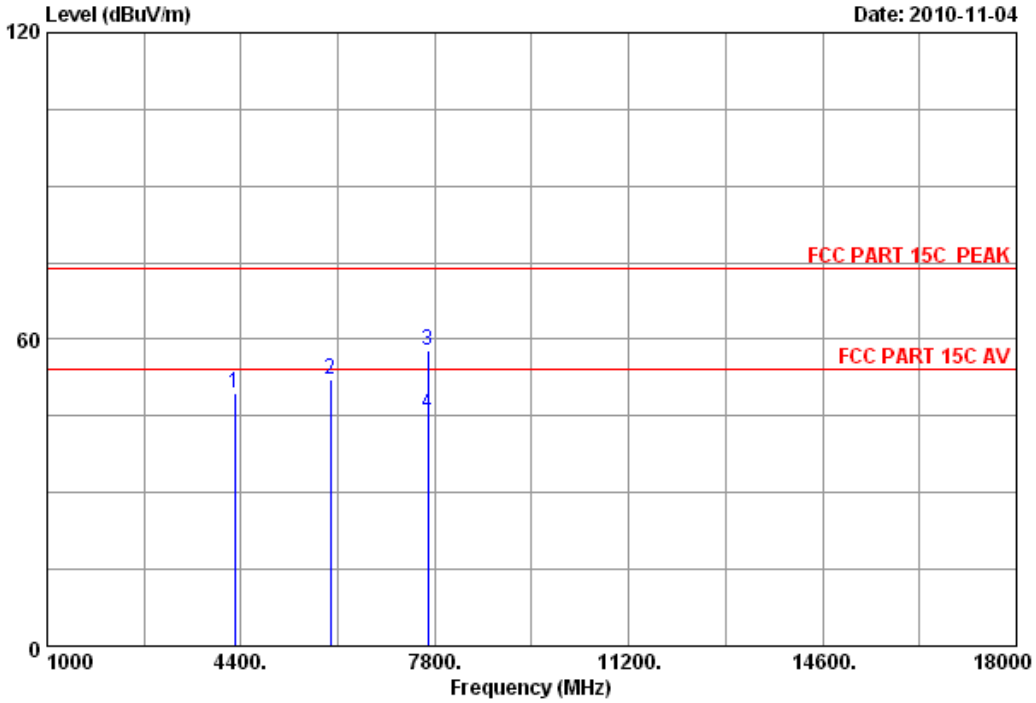
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2003.000	29.20	6.67	36.70	39.87	39.04	74.00	34.96	Peak
2	8106.000	39.07	14.10	34.76	37.75	56.16	74.00	17.84	Peak
3	9449.000	39.53	15.27	35.09	38.71	58.42	74.00	15.58	Peak
4	9449.000	39.53	15.27	35.09	25.07	44.78	54.00	9.22	Average
5	10588.000	38.34	16.23	34.18	41.38	61.77	74.00	12.23	Peak
6	10588.000	38.34	16.23	34.18	26.55	46.94	54.00	7.06	Average

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




```
Site no.      : 3m Chamber                Data no. :  53
Dis. / Ant.   : 3m   3115(0911)           Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                  Engineer  : Paul Tian
EUT           : 150Mbps Wireless lite N USB Adapter
Power         : DC 5V From PC input AC 120V/60Hz
Test mode     : Rx Mode
M/N           : AK093
```

Data: 54 File: E:\2010 report data\ACS10Q1953.EM6 (54)



Site no. : 3m Chamber Data no. : 54
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Paul Tian
EUT : 150Mbps Wireless lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : Rx Mode
M/N : AK093

	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	4298.000	33.88	10.05	35.48	41.00	49.45	74.00	24.55	Peak
2	5964.000	36.00	11.95	34.41	38.66	52.20	74.00	21.80	Peak
3	7681.000	38.52	13.73	34.22	39.95	57.98	74.00	16.02	Peak
4	7681.000	38.52	13.73	34.22	27.59	45.62	54.00	8.38	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.

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

5.2.Limit

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

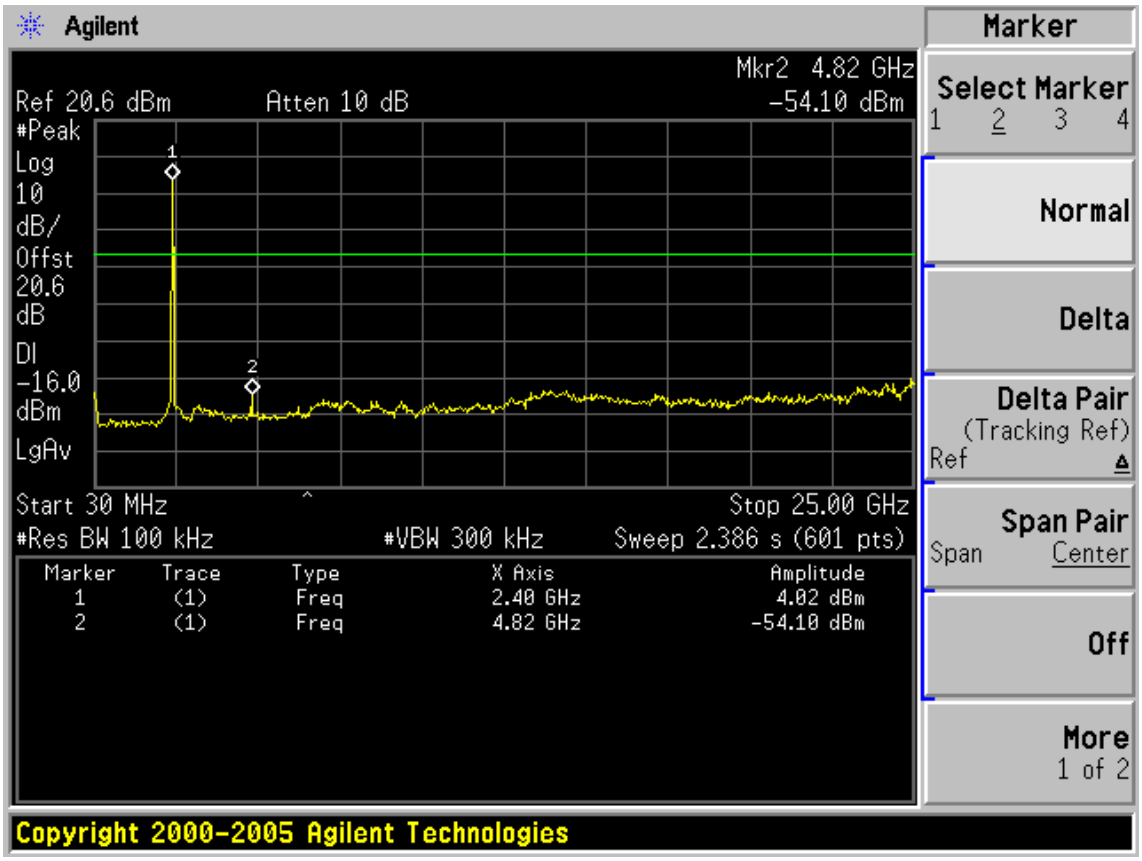
5.3.Test Procedure

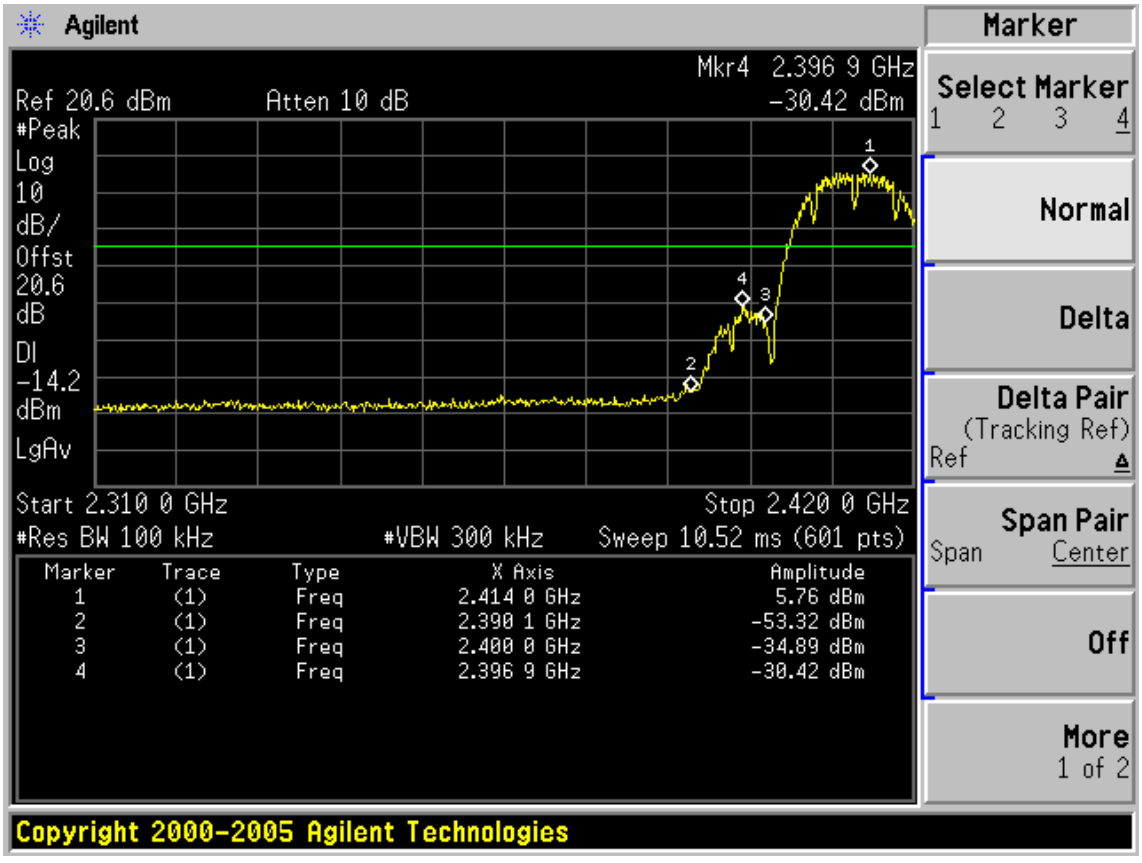
The transmitter output was connected to a spectrum analyzer, The resolution bandwidth is set to 100 kHz, The video bandwidth is set to 300 kHz and measure all the emissions detected.

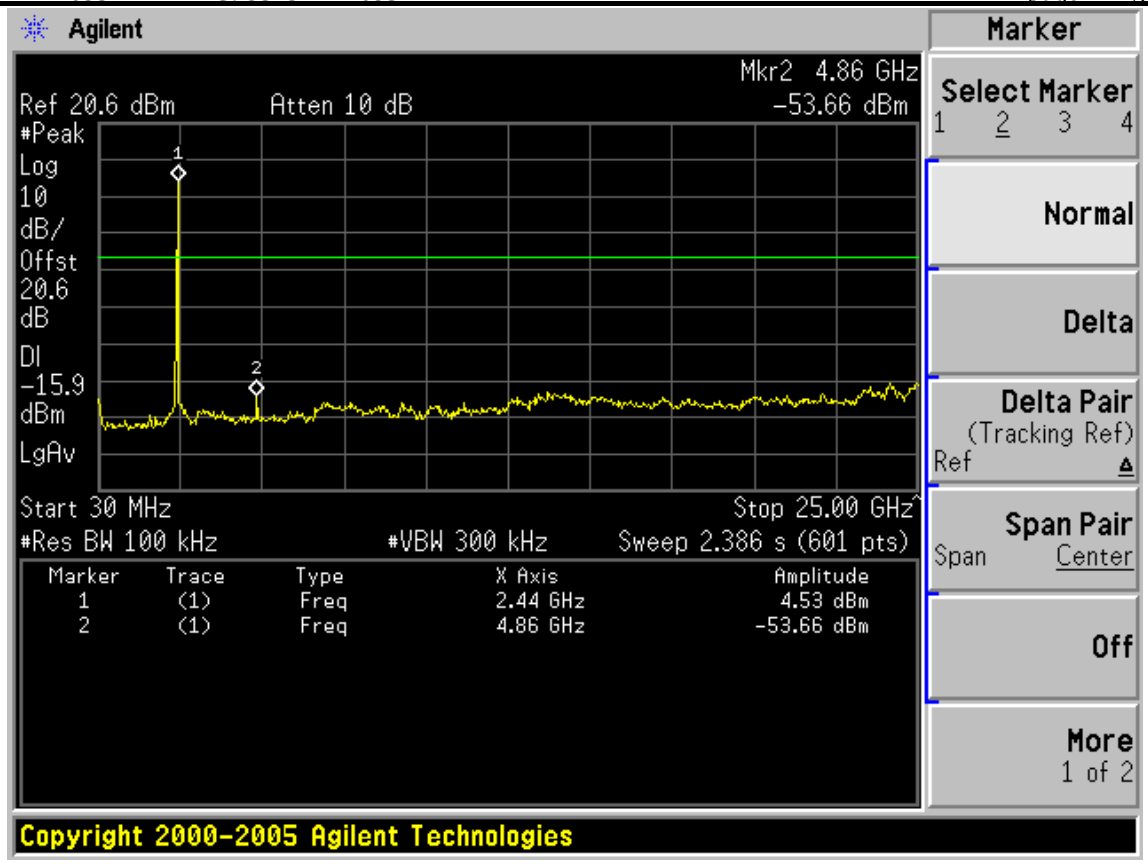
5.4.Test result

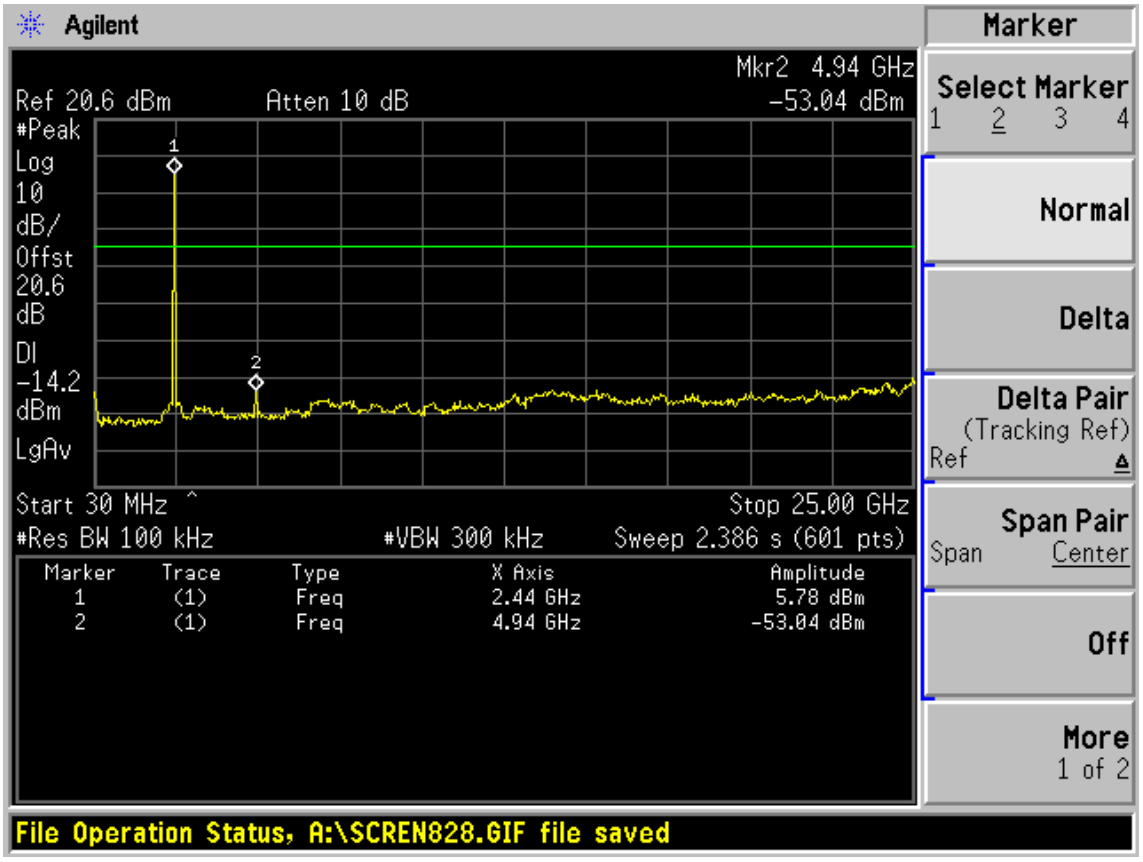
PASS (The testing data was attached in the next pages.)

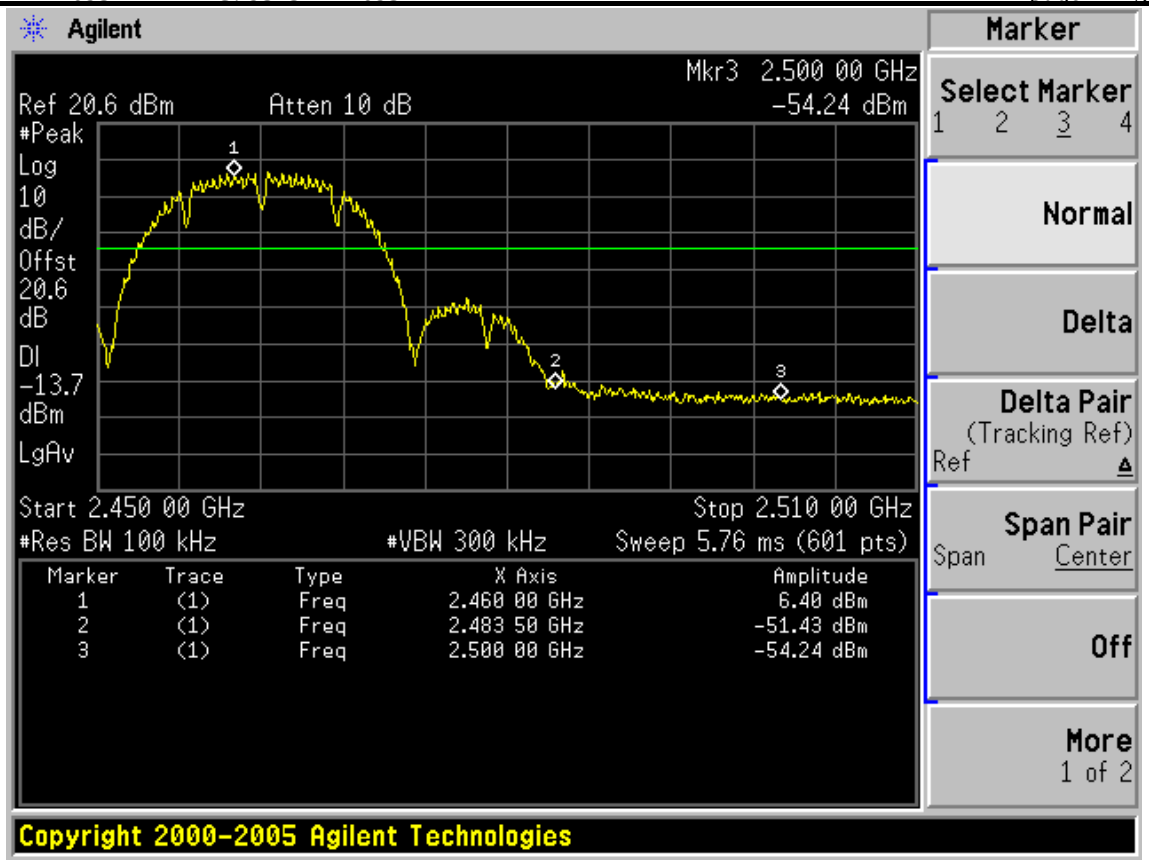
Test Mode: IEEE 802.11b TX



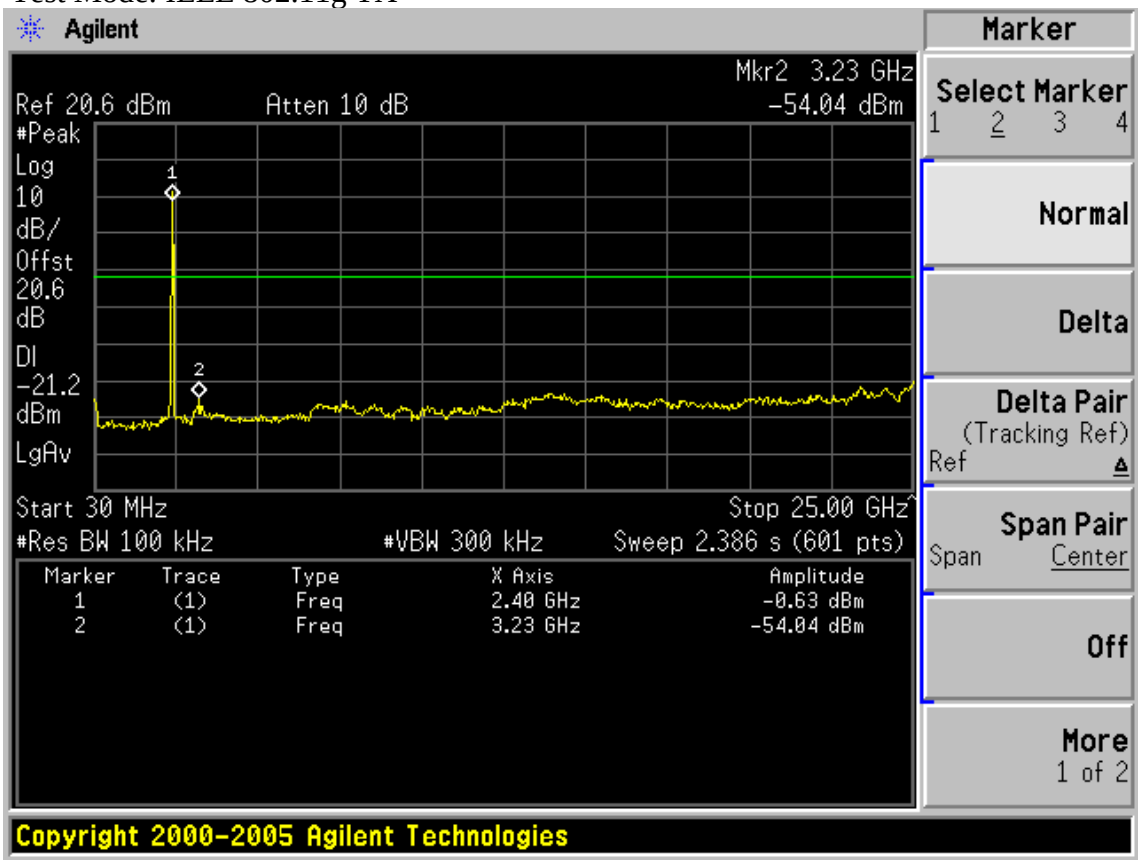


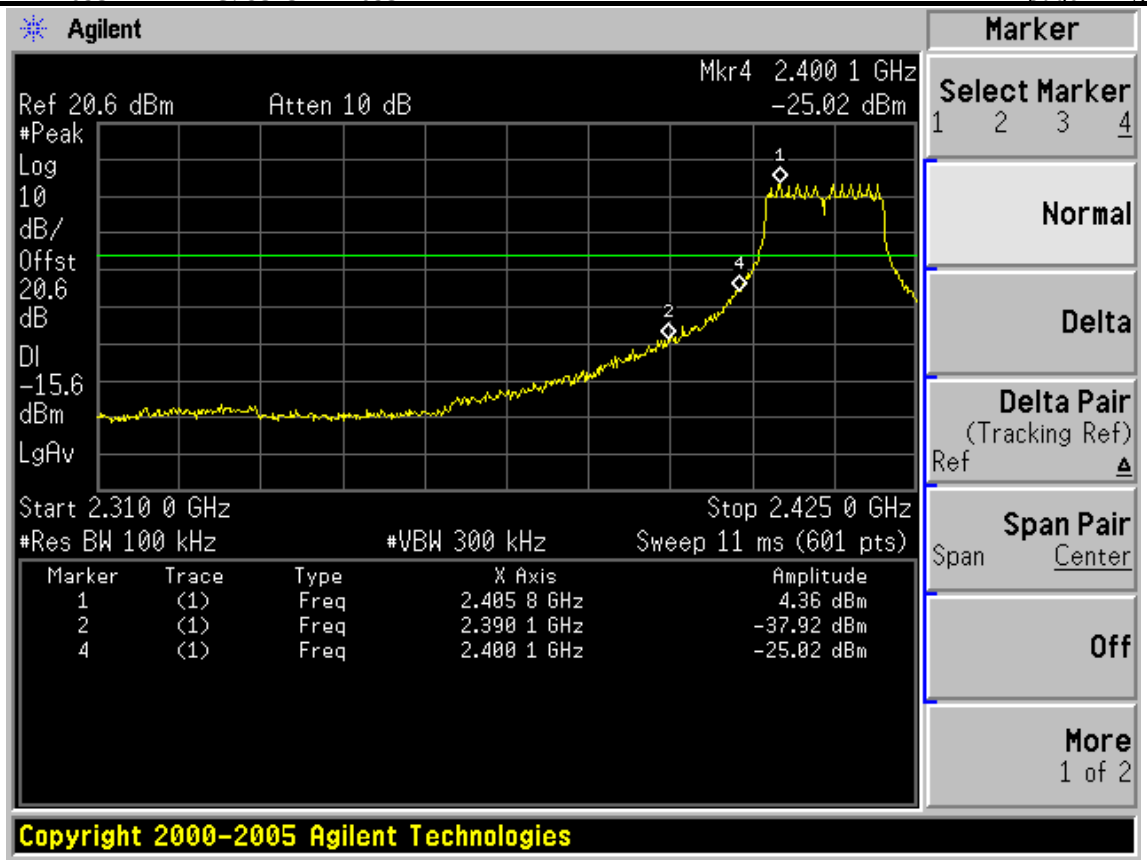

Agilent
Marker
Mkr2 4.86 GHz
Ref 20.6 dBm
Atten 10 dB
−53.66 dBm
#Peak
Log
10
dB/
Offst
20.6
dB
Dl
−15.9
dBm
LgAv
Start 30 MHz
Stop 25.00 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 2.386 s (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.44 GHz 4.53 dBm
2 (1) Freq 4.86 GHz −53.66 dBm
Select Marker
1 2 3 4
Normal
Delta
Delta Pair
(Tracking Ref)
Ref
Span Pair
Span Center
Off
More
1 of 2
Copyright 2000-2005 Agilent Technologies

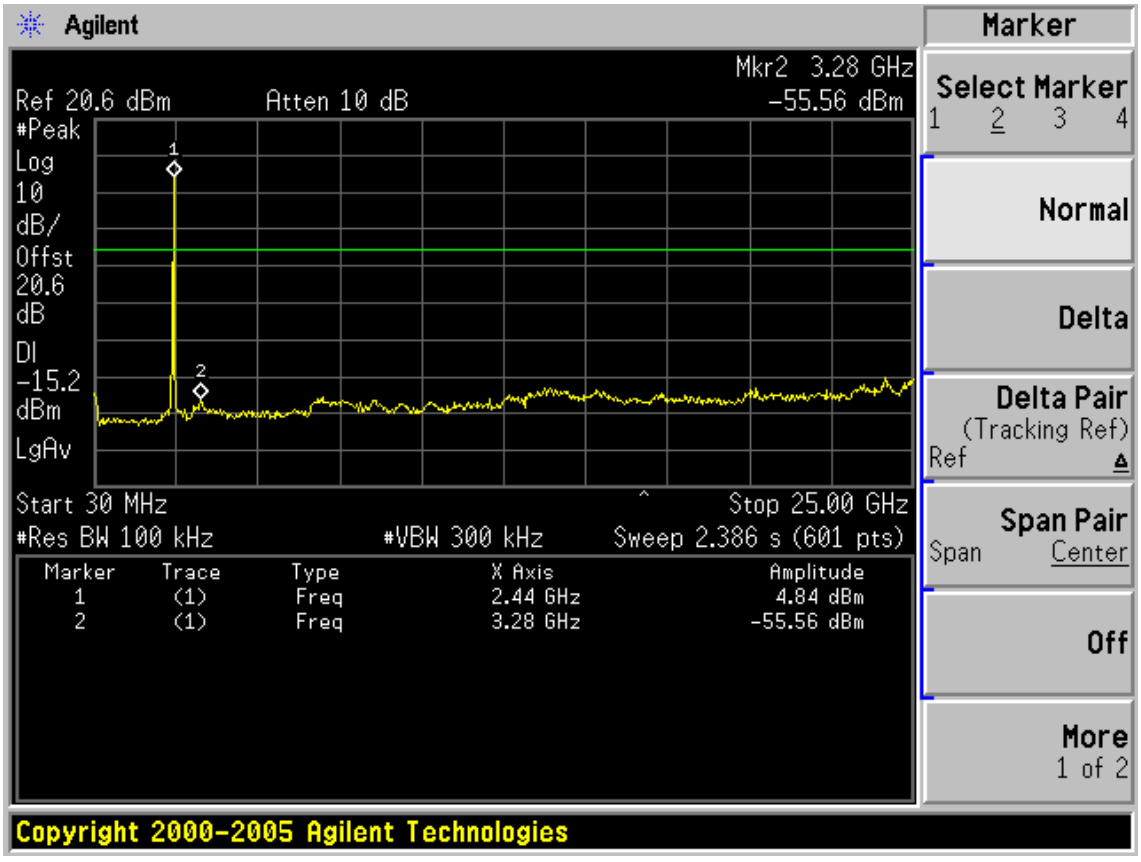

Agilent
Marker
Mkr2 4.94 GHz
Ref 20.6 dBm
Atten 10 dB
−53.04 dBm
#Peak
Log
10
dB/
Offst
20.6
dB
Dl
−14.2
dBm
LgAv
Start 30 MHz
Stop 25.00 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 2.386 s (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.44 GHz 5.78 dBm
2 (1) Freq 4.94 GHz −53.04 dBm
Select Marker
1 2 3 4
Normal
Delta
Delta Pair
(Tracking Ref)
Ref
Span Pair
Span Center
Off
More
1 of 2
File Operation Status, A:\SCREN828.GIF file saved



Test Mode: IEEE 802.11g TX




Agilent
Marker
Mkr4 2.400 1 GHz
Ref 20.6 dBm
Atten 10 dB
-25.02 dBm
#Peak
Log
10
dB/
Offst
20.6
dB
Dl
-15.6
dBm
LgAv
Start 2.310 0 GHz
Stop 2.425 0 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 11 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.405 8 GHz 4.36 dBm
2 (1) Freq 2.390 1 GHz -37.92 dBm
4 (1) Freq 2.400 1 GHz -25.02 dBm
Select Marker
1 2 3 4
Normal
Delta
Delta Pair
(Tracking Ref)
Ref
Span Pair
Span Center
Off
More
1 of 2
Copyright 2000-2005 Agilent Technologies


Agilent
Marker
Mkr2 3.28 GHz
Ref 20.6 dBm
Atten 10 dB
-55.56 dBm
#Peak
Log
10
dB/
Offst
20.6
dB
Dl
-15.2
dBm
LgAv
Start 30 MHz
Stop 25.00 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 2.386 s (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.44 GHz 4.84 dBm
2 (1) Freq 3.28 GHz -55.56 dBm
Select Marker
1 2 3 4
Normal
Delta
Delta Pair
(Tracking Ref)
Ref
Span Pair
Span Center
Off
More
1 of 2
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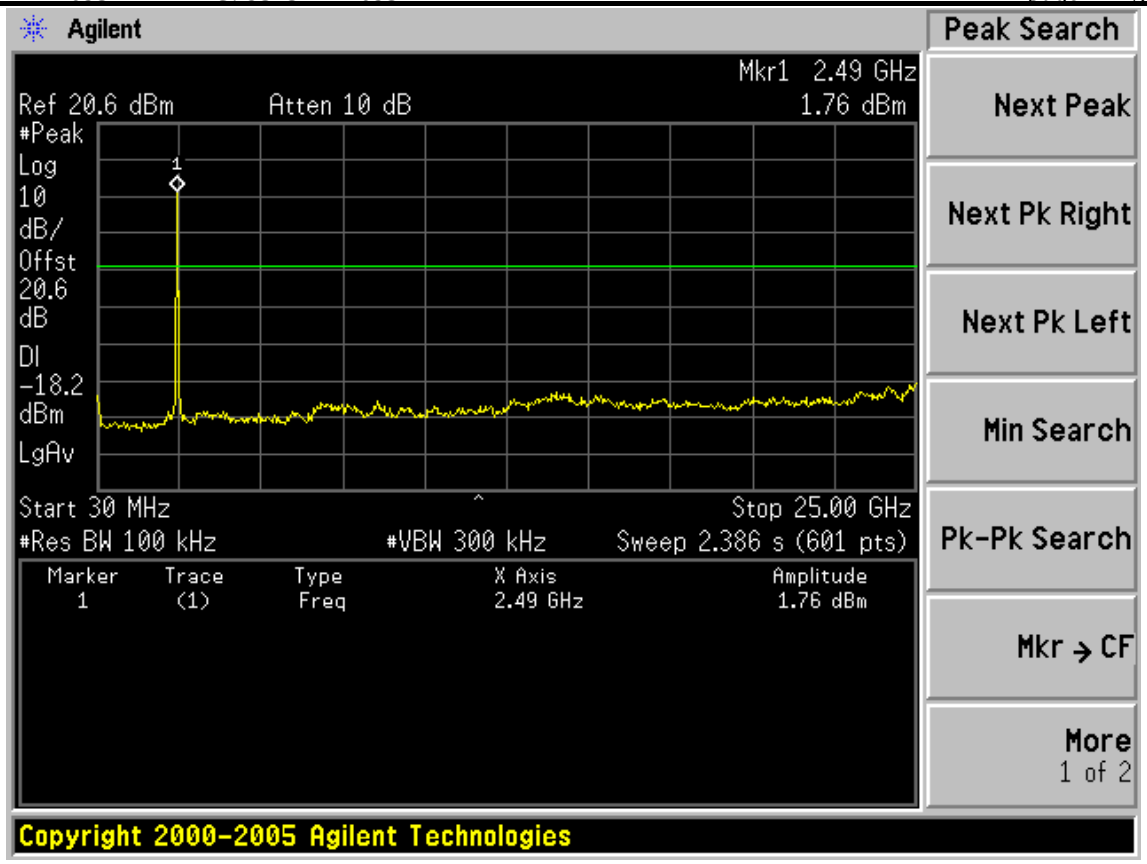
Agilent
Peak Search
Mkr1 2.49 GHz
Ref 20.6 dBm
Atten 10 dB
1.76 dBm
#Peak
Log
10
dB/
Offst
20.6
dB
Dl
-18.2
dBm
LgAv
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
Start 30 MHz
Stop 25.00 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 2.386 s (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.49 GHz 1.76 dBm
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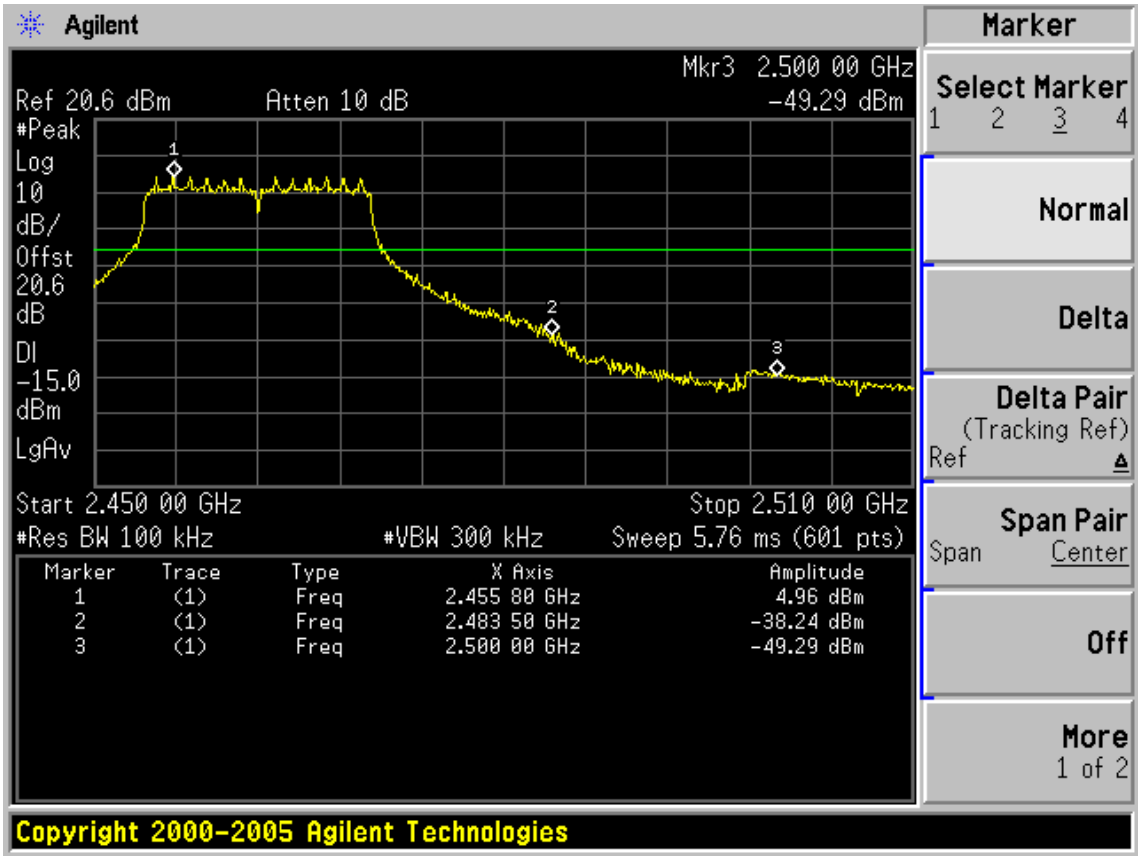
Agilent
Marker
Mkr3 2.500 00 GHz
Ref 20.6 dBm
Atten 10 dB
-49.29 dBm
#Peak
Log
10
dB/
Offst
20.6
dB
Dl
-15.0
dBm
LgAv
Select Marker
1 2 3 4
Normal
Delta
Delta Pair
(Tracking Ref)
Ref
Span Pair
Span Center
Off
More
1 of 2
Start 2.450 00 GHz
Stop 2.510 00 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 5.76 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.455 80 GHz 4.96 dBm
2 (1) Freq 2.483 50 GHz -38.24 dBm
3 (1) Freq 2.500 00 GHz -49.29 dBm
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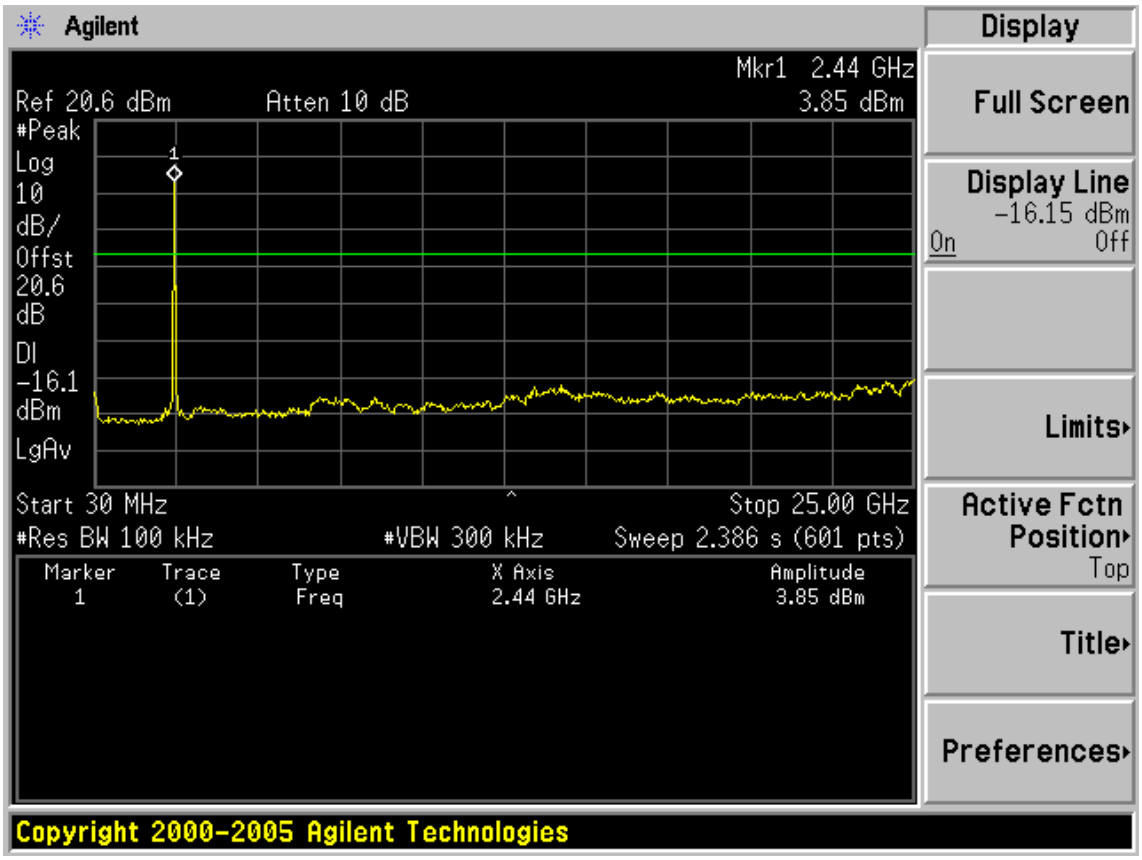
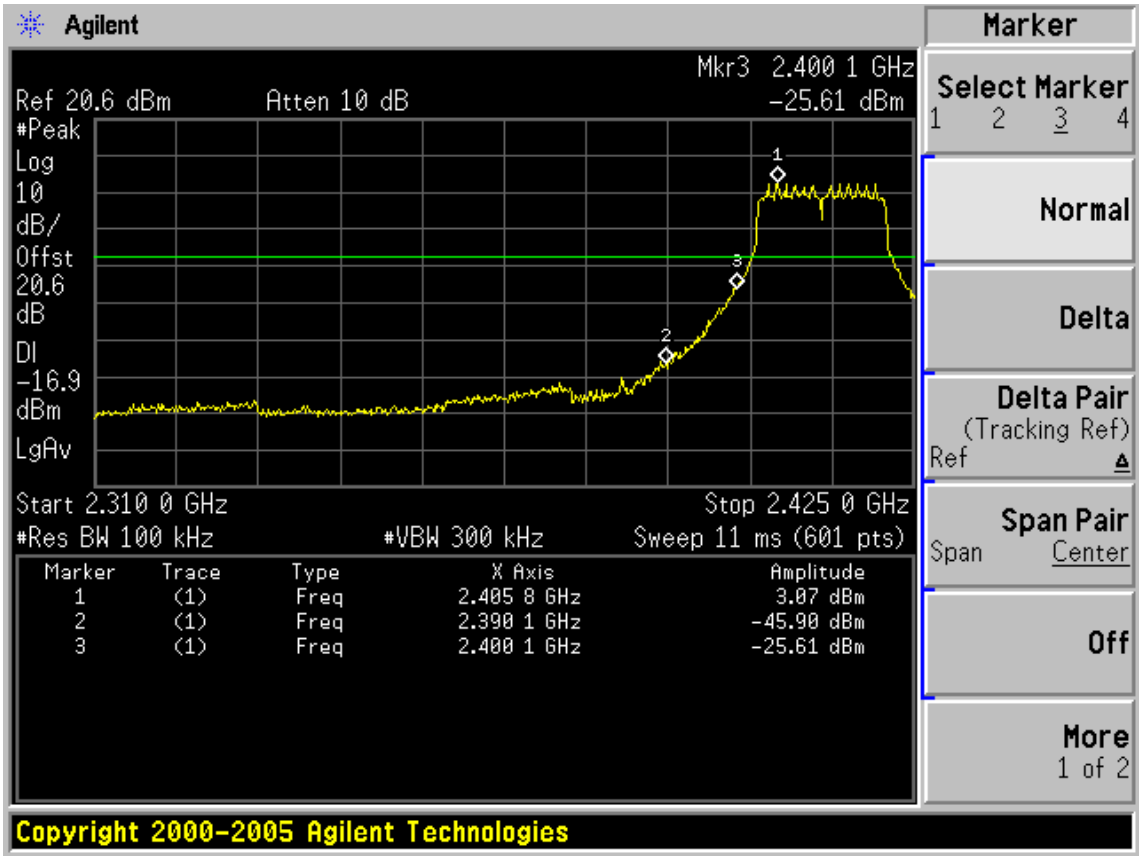
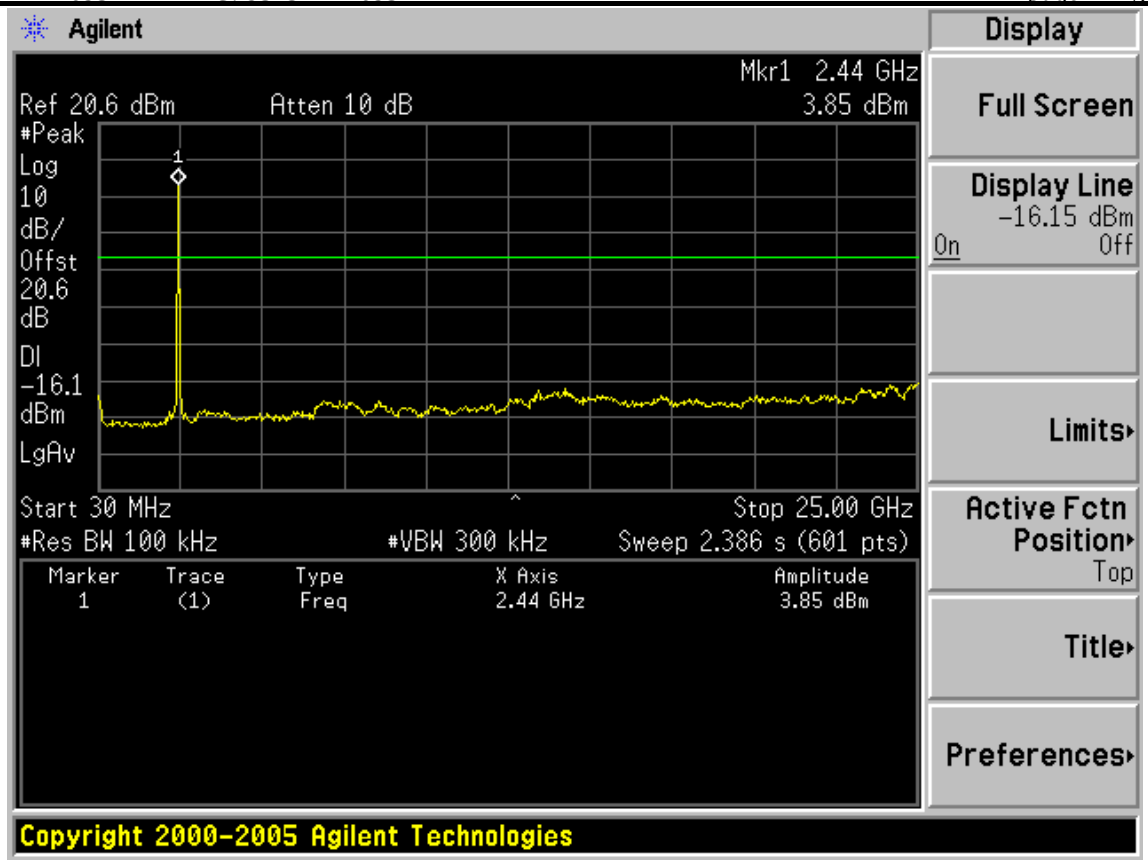
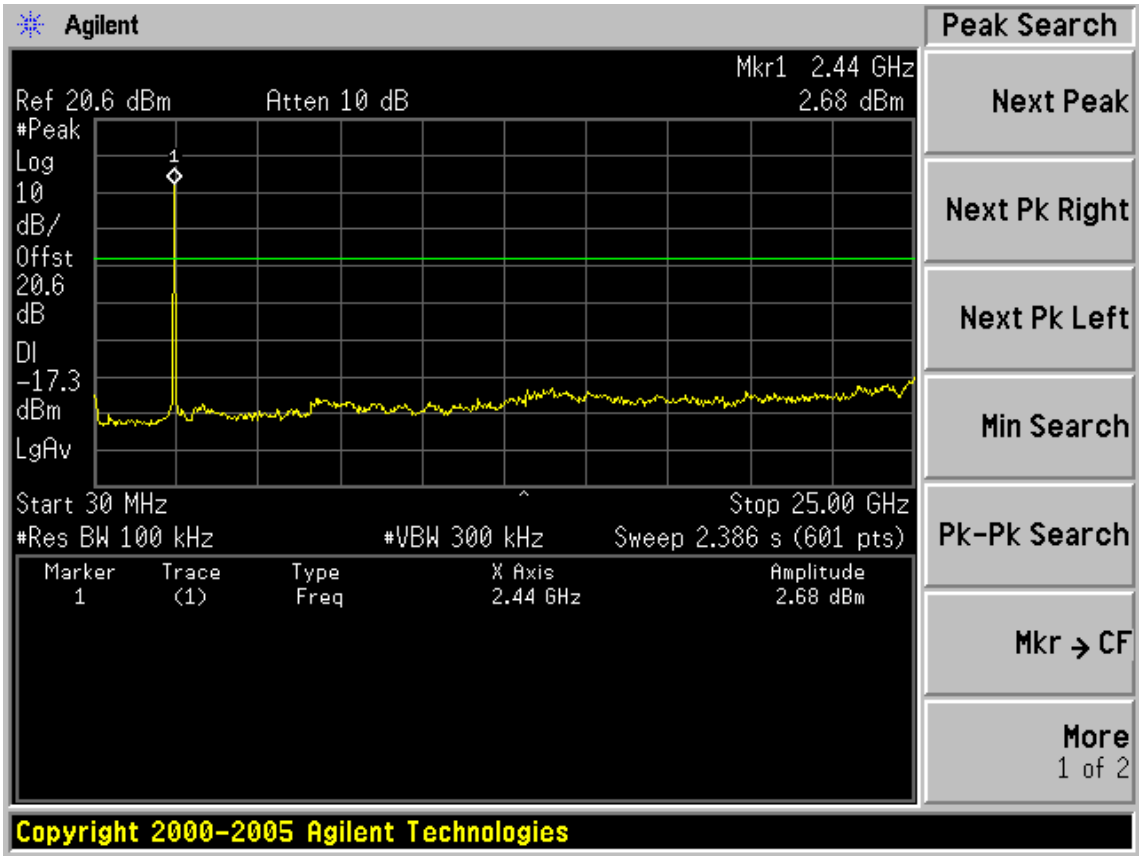
Test Mode: IEEE 802.11n HT20 TX






Agilent
Mkr1 2.44 GHz
Ref 20.6 dBm
Atten 10 dB
3.85 dBm
#Peak
Log
10
dB/
Offst
20.6
dB
Dl
-16.1
dBm
LgAv
Start 30 MHz
Stop 25.00 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 2.386 s (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.44 GHz 3.85 dBm
Display
Full Screen
Display Line
-16.15 dBm
On Off
Limits
Active Fctn
Position
Top
Title
Preferences
Copyright 2000-2005 Agilent Technologies


Agilent
Mkr1 2.44 GHz
Ref 20.6 dBm
Atten 10 dB
2.68 dBm
#Peak
Log
10
dB/
Offst
20.6
dB
Dl
-17.3
dBm
LgAv
Start 30 MHz
Stop 25.00 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 2.386 s (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.44 GHz 2.68 dBm
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
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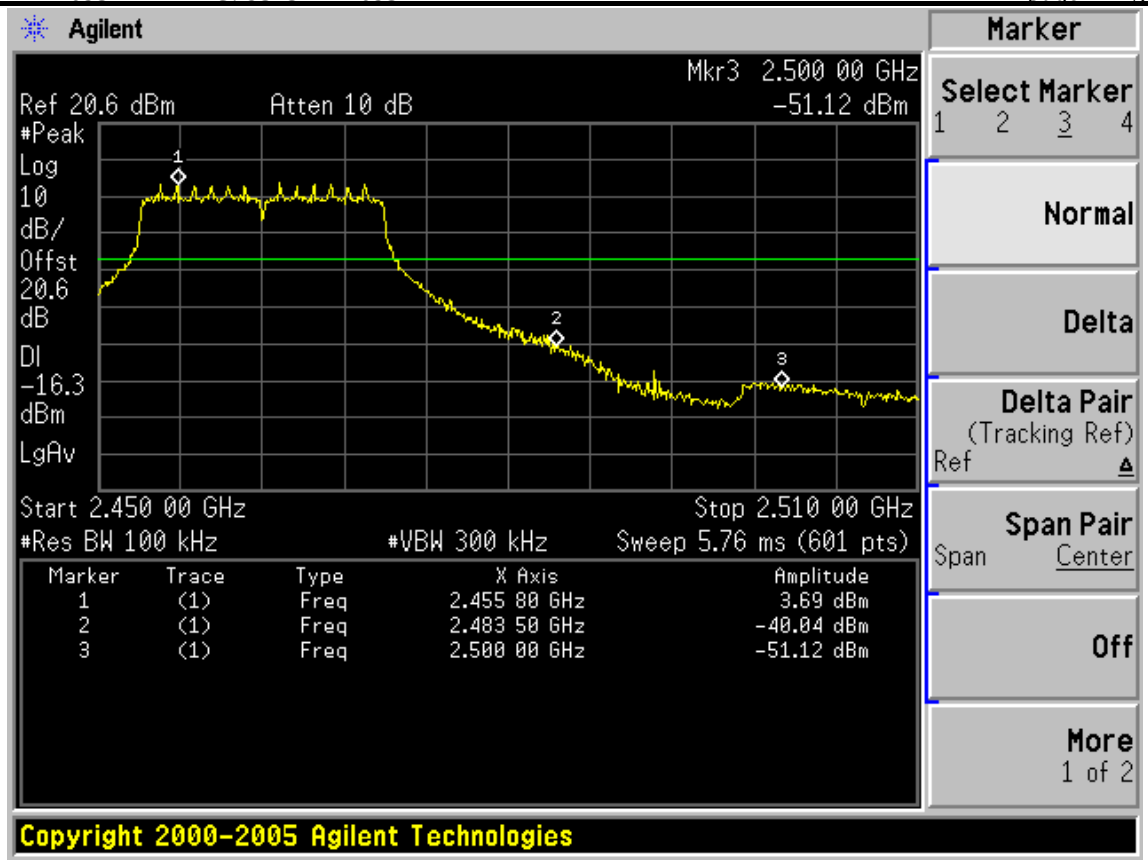
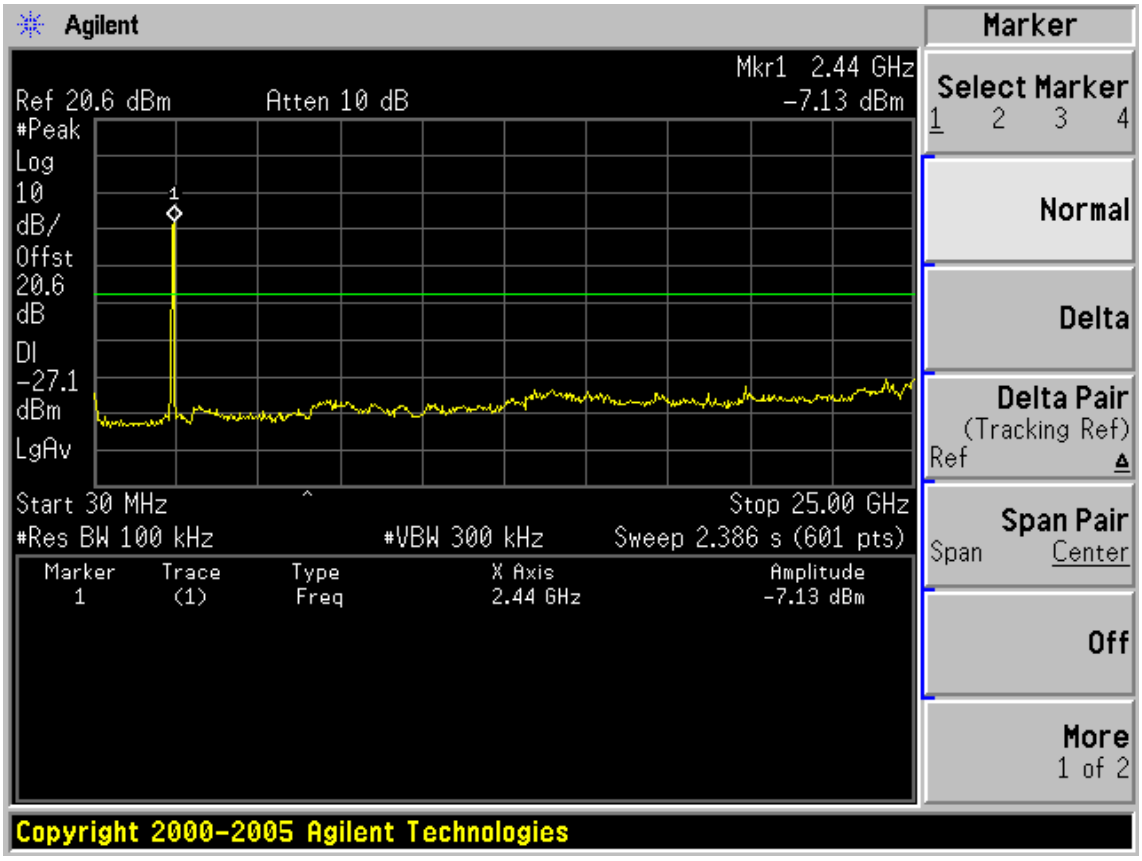
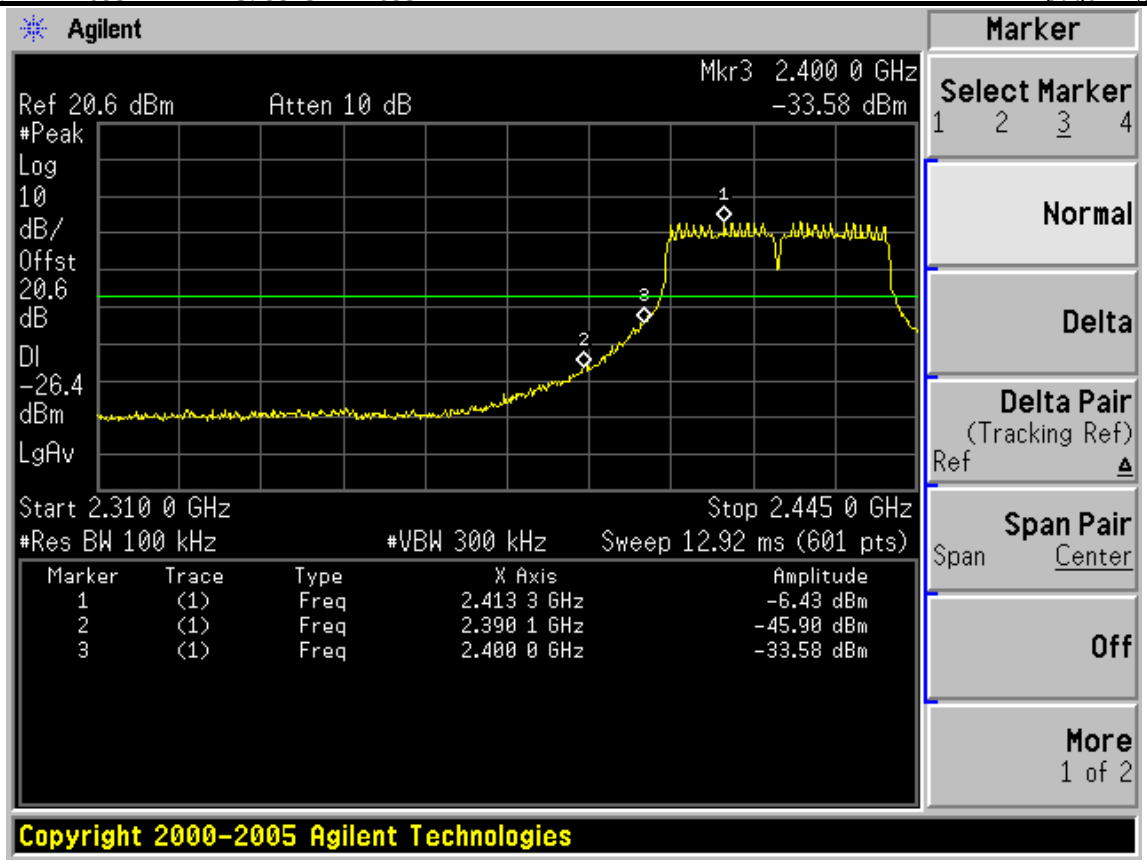
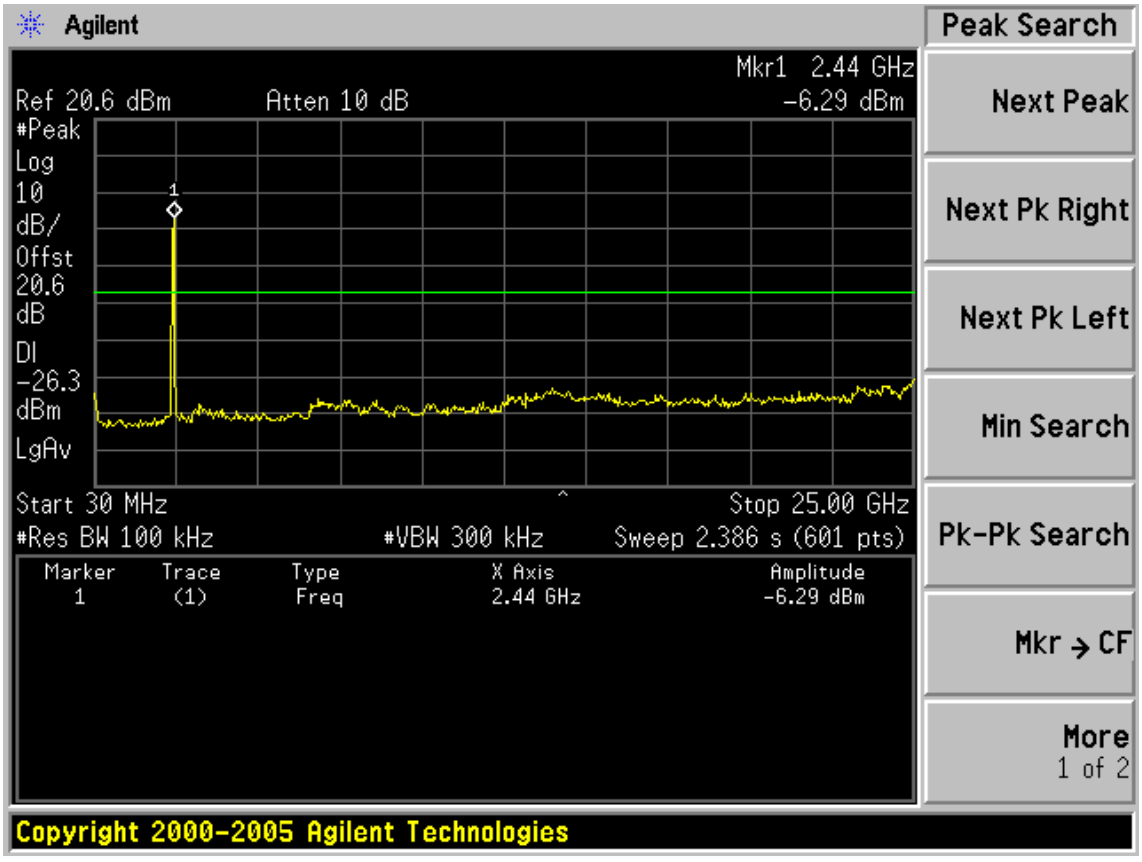
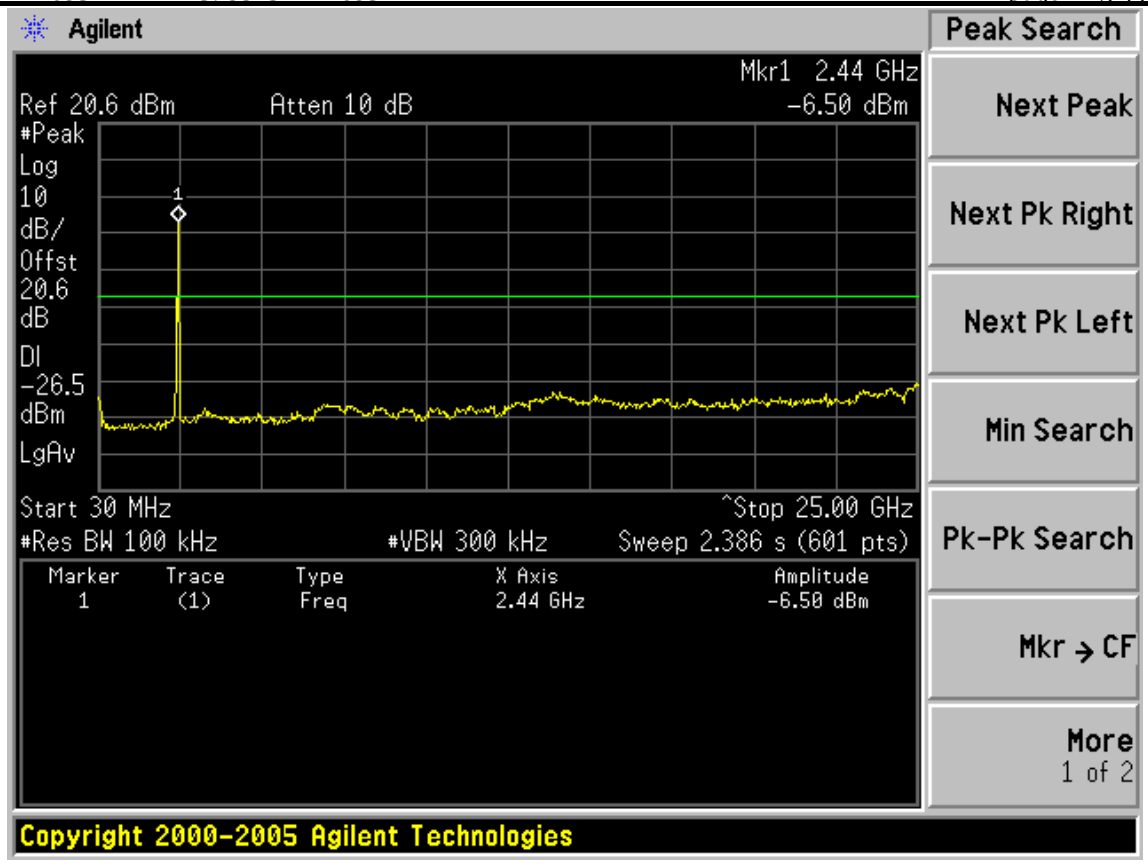


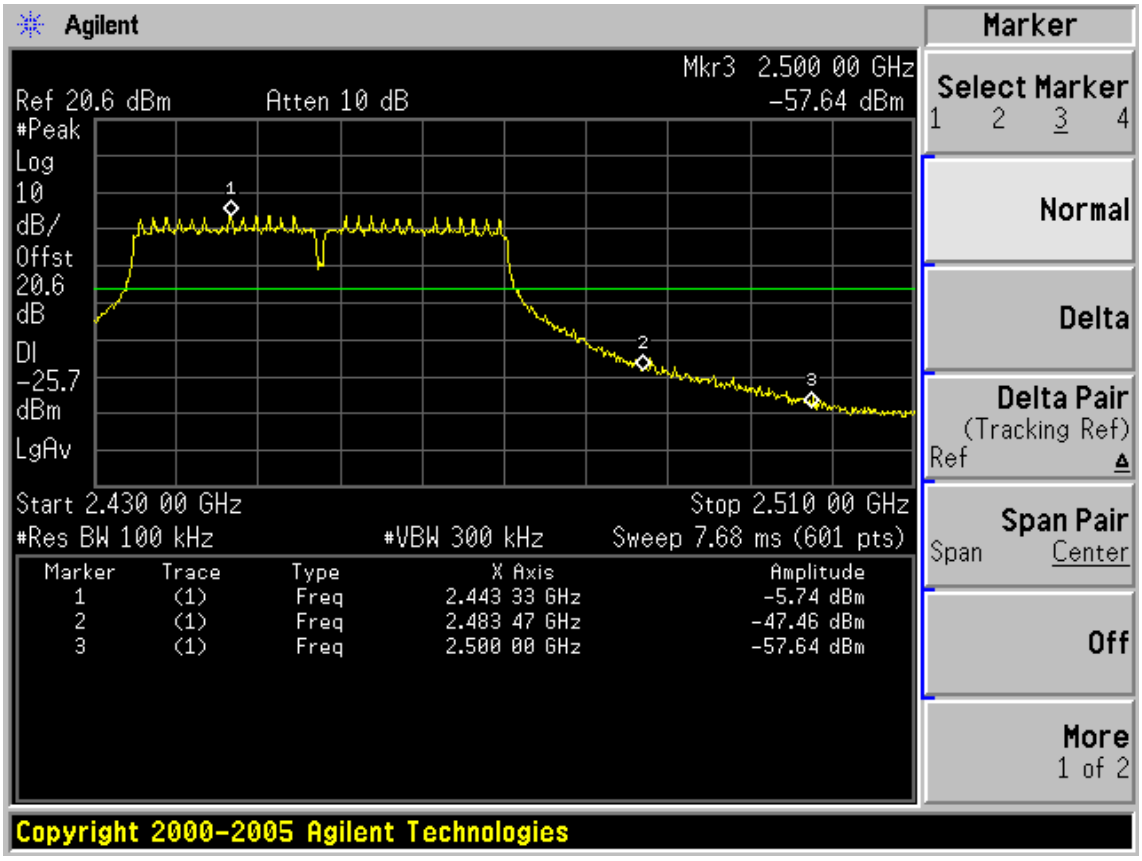
Test Mode: IEEE 802.11n HT40 TX




Agilent
Marker
Mkr3 2.400 0 GHz
Ref 20.6 dBm
Atten 10 dB
-33.58 dBm
#Peak
Log
10
dB/
Offst
20.6
dB
Dl
-26.4
dBm
LgAv
Start 2.310 0 GHz
Stop 2.445 0 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 12.92 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.413 3 GHz -6.43 dBm
2 (1) Freq 2.390 1 GHz -45.90 dBm
3 (1) Freq 2.400 0 GHz -33.58 dBm
Select Marker
1 2 3 4
Normal
Delta
Delta Pair
(Tracking Ref)
Ref
Span Pair
Span Center
Off
More
1 of 2
Copyright 2000-2005 Agilent Technologies


Agilent
Peak Search
Mkr1 2.44 GHz
Ref 20.6 dBm
Atten 10 dB
-6.29 dBm
#Peak
Log
10
dB/
Offst
20.6
dB
Dl
-26.3
dBm
LgAv
Start 30 MHz
Stop 25.00 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 2.386 s (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.44 GHz -6.29 dBm
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
Copyright 2000-2005 Agilent Technologies


Agilent
Peak Search
Mkr1 2.44 GHz
Ref 20.6 dBm
Atten 10 dB
-6.50 dBm
#Peak
Log
10
dB/
Offst
20.6
dB
Dl
-26.5
dBm
LgAv
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
Start 30 MHz
^Stop 25.00 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 2.386 s (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.44 GHz -6.50 dBm
Copyright 2000-2005 Agilent Technologies


Agilent
Marker
Mkr3 2.500 00 GHz
Ref 20.6 dBm
Atten 10 dB
-57.64 dBm
#Peak
Log
10
dB/
Offst
20.6
dB
Dl
-25.7
dBm
LgAv
Select Marker
1 2 3 4
Normal
Delta
Delta Pair
(Tracking Ref)
Ref
Span Pair
Span Center
Off
More
1 of 2
Start 2.430 00 GHz
Stop 2.510 00 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 7.68 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.443 33 GHz -5.74 dBm
2 (1) Freq 2.483 47 GHz -47.46 dBm
3 (1) Freq 2.500 00 GHz -57.64 dBm
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6. BAND EDGE COMPLIANCE TEST

6.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08,10	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.

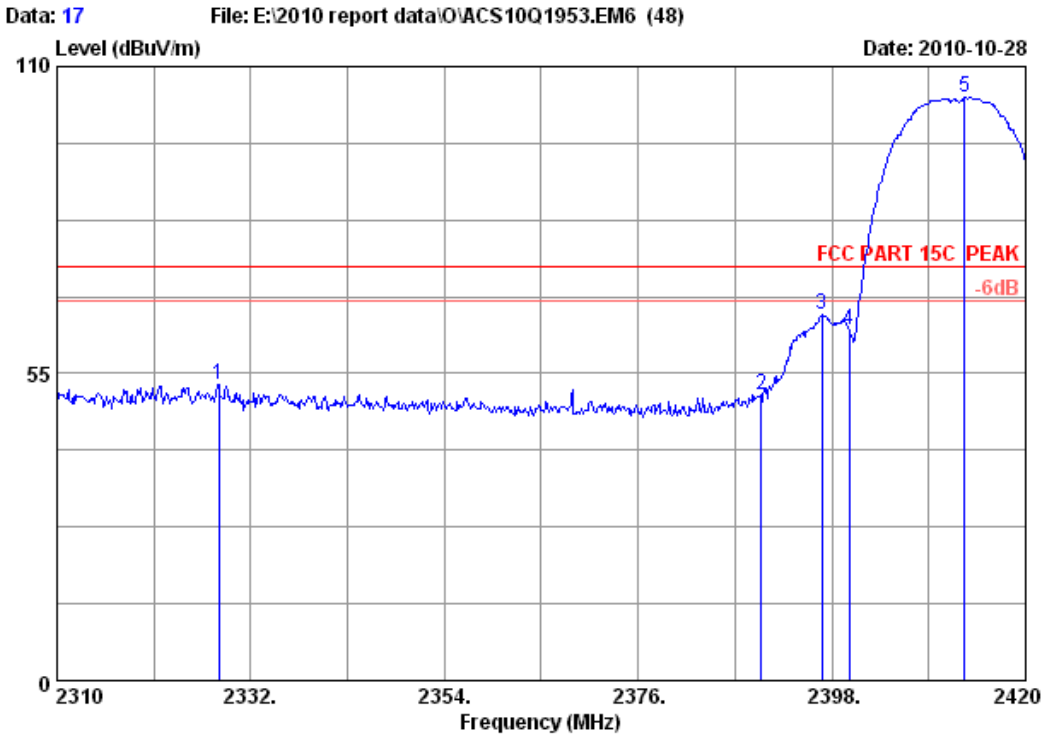
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.

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

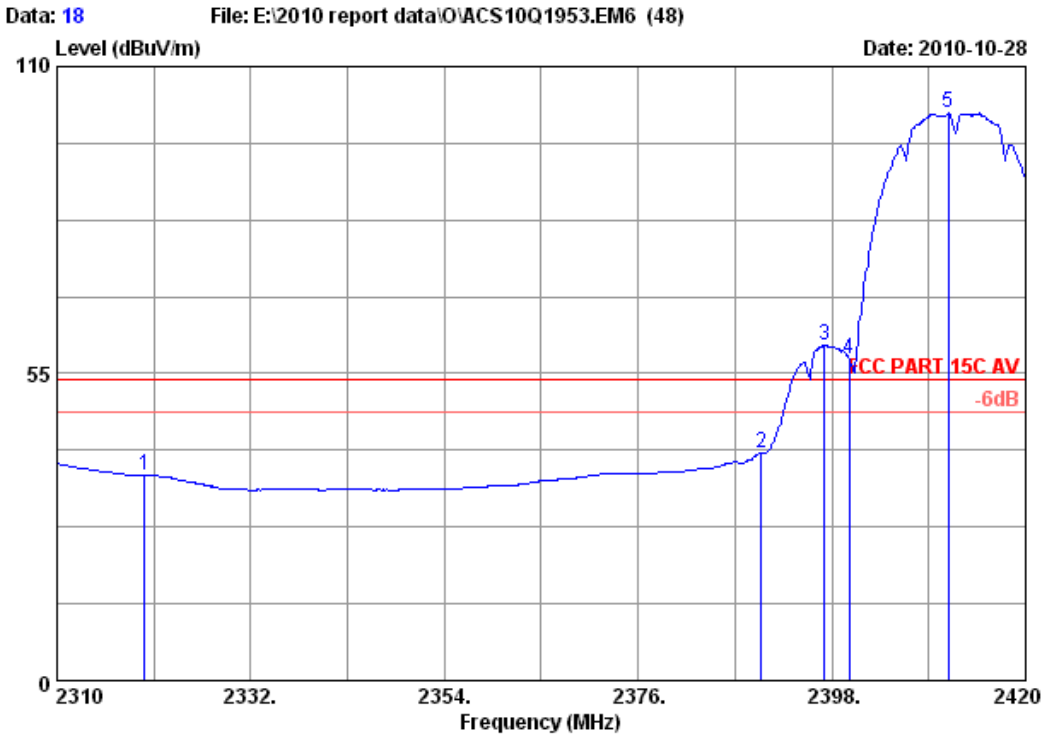
Pass (The testing data was attached in the next pages.)



Site no. : 10m Chamber Data no. : 17
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Paul Tian
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH1 2412MHz
M/N : AK093
:

	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	2328.370	28.36	7.61	36.06	53.07	52.98	74.00	21.02	Peak
2	2390.000	28.46	7.66	36.09	51.06	51.09	74.00	22.91	Peak
3	2396.900	28.46	7.66	36.09	65.43	65.46	74.00	8.54	Peak
4	2400.000	28.46	7.66	36.09	62.79	62.82	74.00	11.18	Peak
5	2413.070	28.48	7.66	35.95	104.32	104.51	74.00	-30.51	Peak

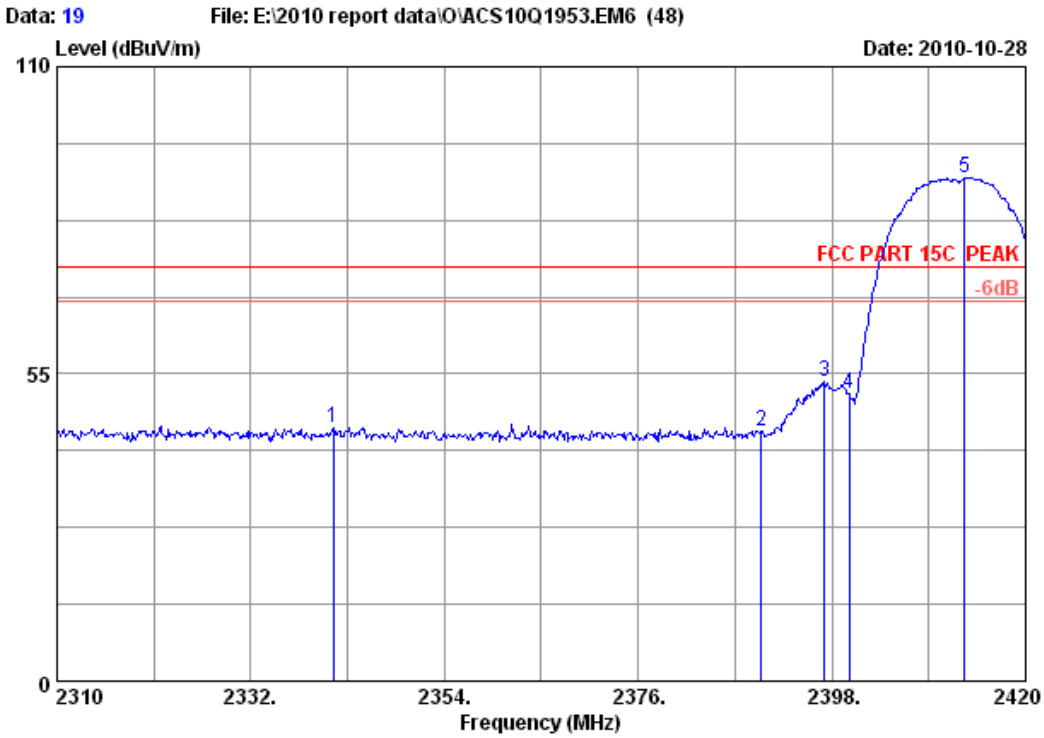
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 18
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23*C/54% Engineer : Paul Tian
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH1 2412MHz
M/N : AK093
:

	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	2319.900	28.36	7.55	36.06	37.07	36.92	54.00	17.08	Average
2	2390.000	28.46	7.66	36.09	40.65	40.68	54.00	13.32	Average
3	2397.120	28.46	7.66	36.09	60.05	60.08	54.00	-6.08	Average
4	2400.000	28.46	7.66	36.09	57.71	57.74	54.00	-3.74	Average
5	2411.200	28.48	7.66	35.95	101.42	101.61	54.00	-47.61	Average

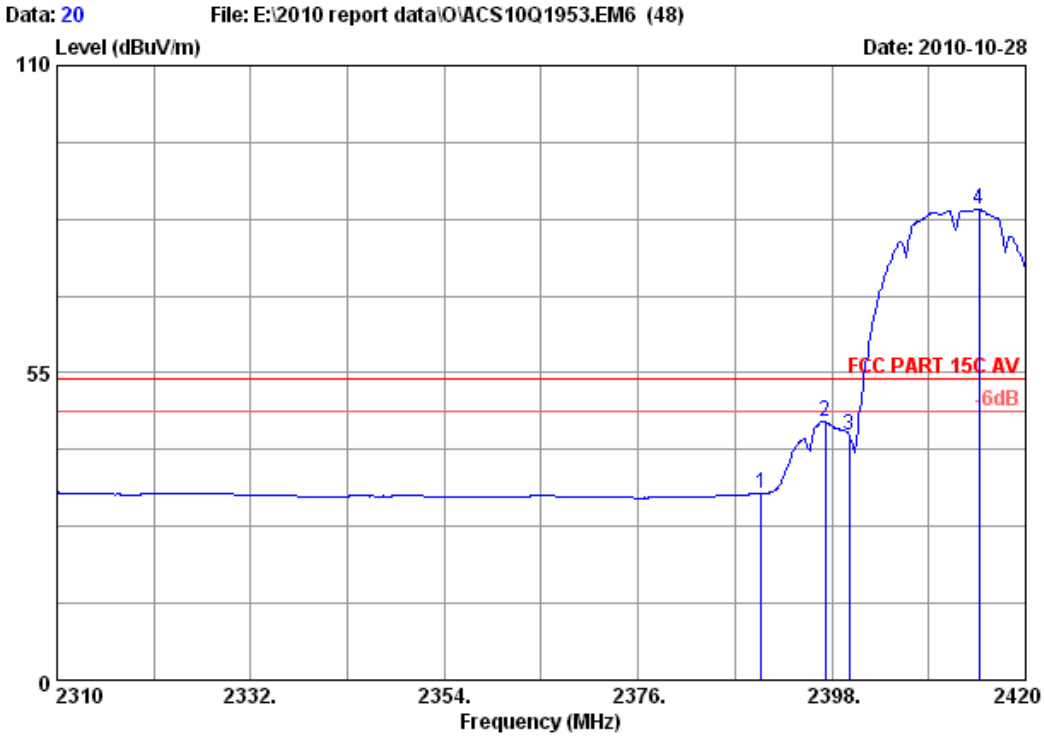
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 19
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Paul Tian
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH1 2412MHz
M/N : AK093
:

	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	2341.350	28.38	7.61	35.99	45.42	45.42	74.00	28.58	Peak
2	2390.000	28.46	7.66	36.09	44.84	44.87	74.00	29.13	Peak
3	2397.120	28.46	7.66	36.09	53.64	53.67	74.00	20.33	Peak
4	2400.000	28.46	7.66	36.09	51.51	51.54	74.00	22.46	Peak
5	2413.070	28.48	7.66	35.95	90.00	90.19	74.00	-16.19	Peak

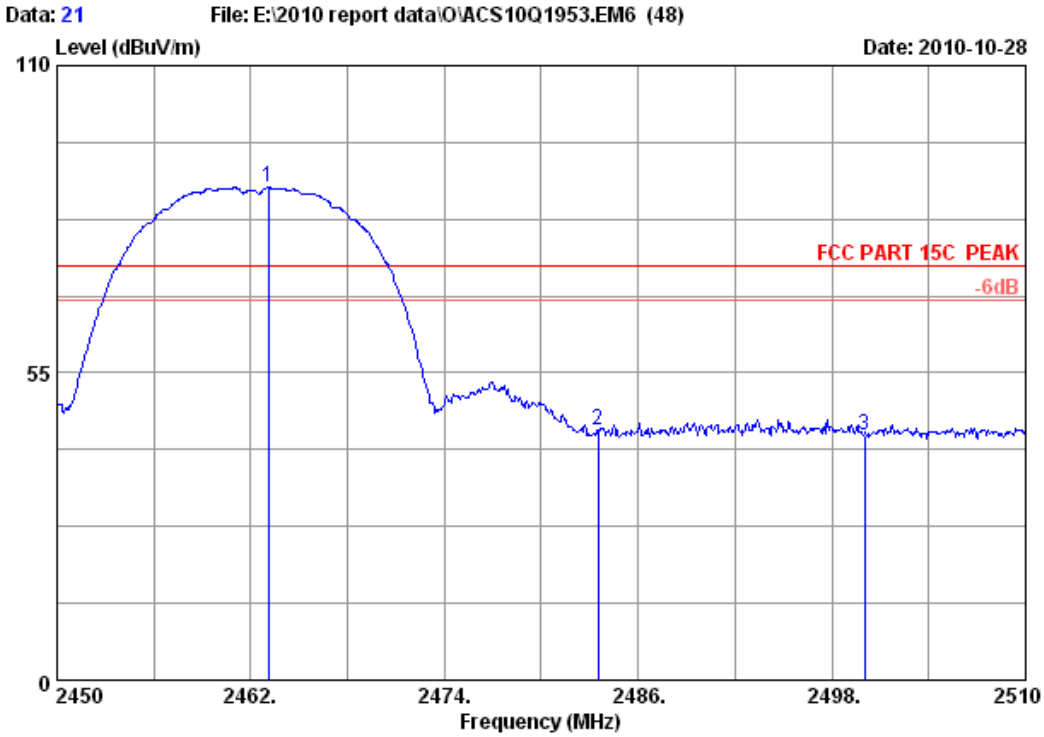
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 20
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23*C/54% Engineer : Paul Tian
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH1 2412MHz
M/N : AK093
:

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	28.46	7.66	36.09	33.41	33.44	54.00	20.56	Average
2	2397.230	28.46	7.66	36.09	46.23	46.26	54.00	7.74	Average
3	2400.000	28.46	7.66	36.09	43.73	43.76	54.00	10.24	Average
4	2414.720	28.48	7.66	35.95	84.15	84.34	54.00	-30.34	Average

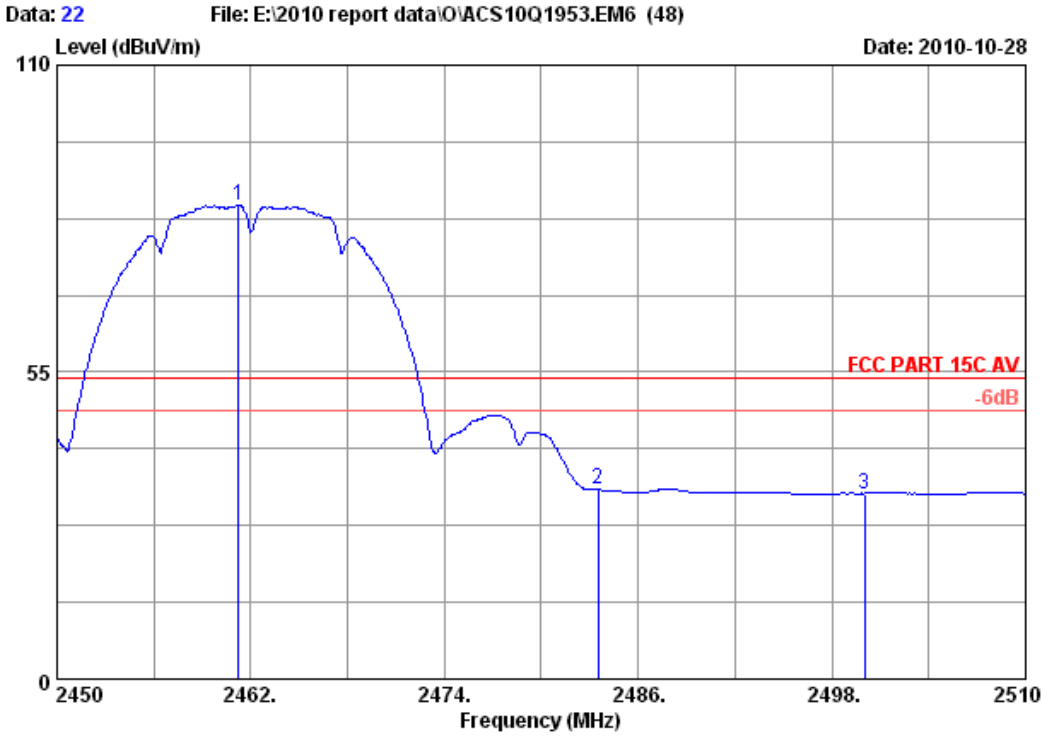
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 21
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Paul Tian
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH11 2462MHz
M/N : AK093
:

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2463.080	28.55	7.72	36.02	87.92	88.17	74.00	-14.17	Peak
2	2483.500	28.58	7.77	35.97	44.37	44.75	74.00	29.25	Peak
3	2500.000	28.60	7.77	36.00	43.53	43.90	74.00	30.10	Peak

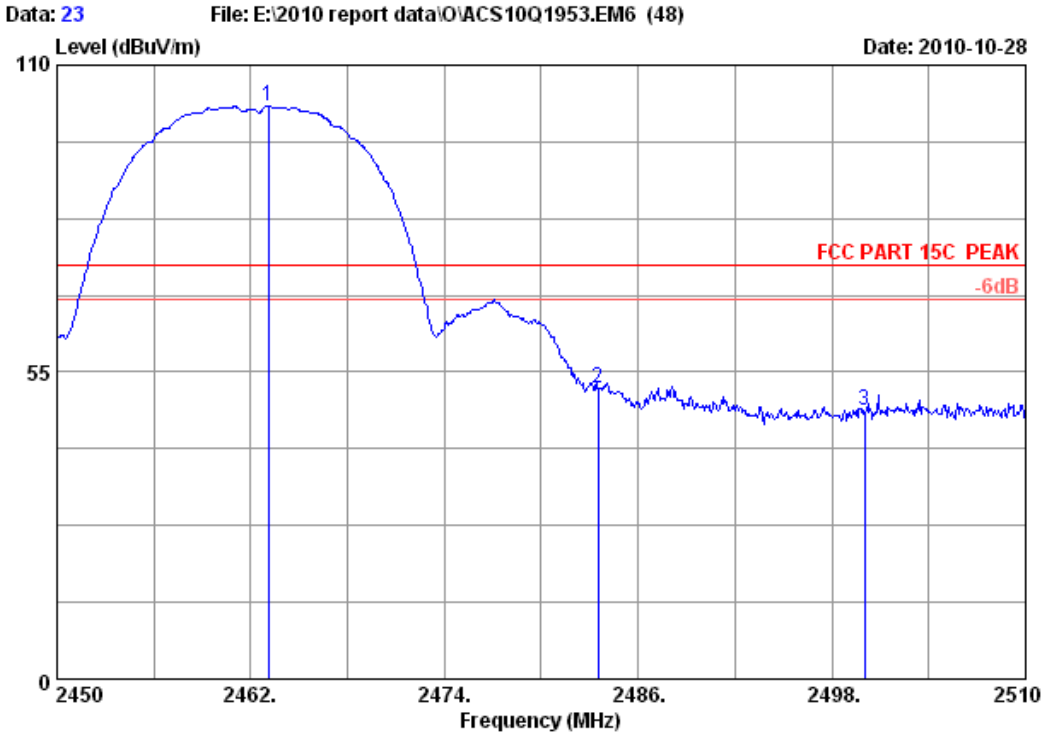
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 22
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23*C/54% Engineer : Paul Tian
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH11 2462MHz
M/N : AK093
:

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2461.220	28.55	7.72	36.02	84.60	84.85	54.00	-30.85	Average
2	2483.500	28.58	7.77	35.97	33.52	33.90	54.00	20.10	Average
3	2500.000	28.60	7.77	36.00	32.87	33.24	54.00	20.76	Average

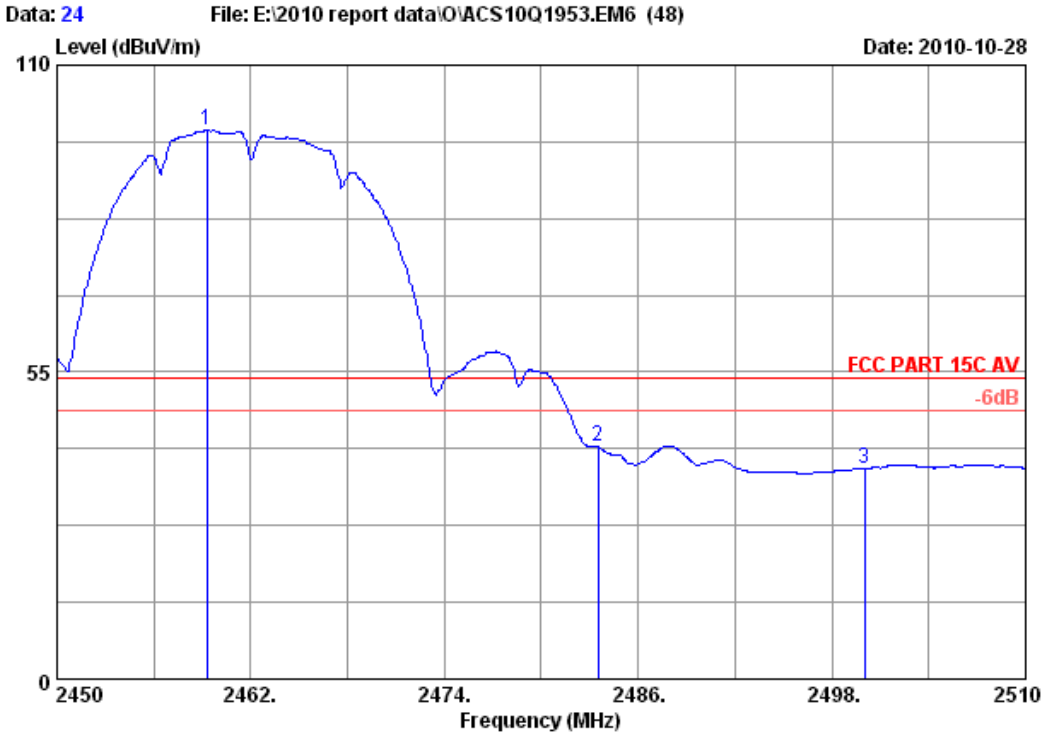
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 23
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Paul Tian
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH11 2462MHz
M/N : AK093
:

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2463.080	28.55	7.72	36.02	102.35	102.60	74.00	-28.60	Peak
2	2483.500	28.58	7.77	35.97	51.69	52.07	74.00	21.93	Peak
3	2500.000	28.60	7.77	36.00	47.62	47.99	74.00	26.01	Peak

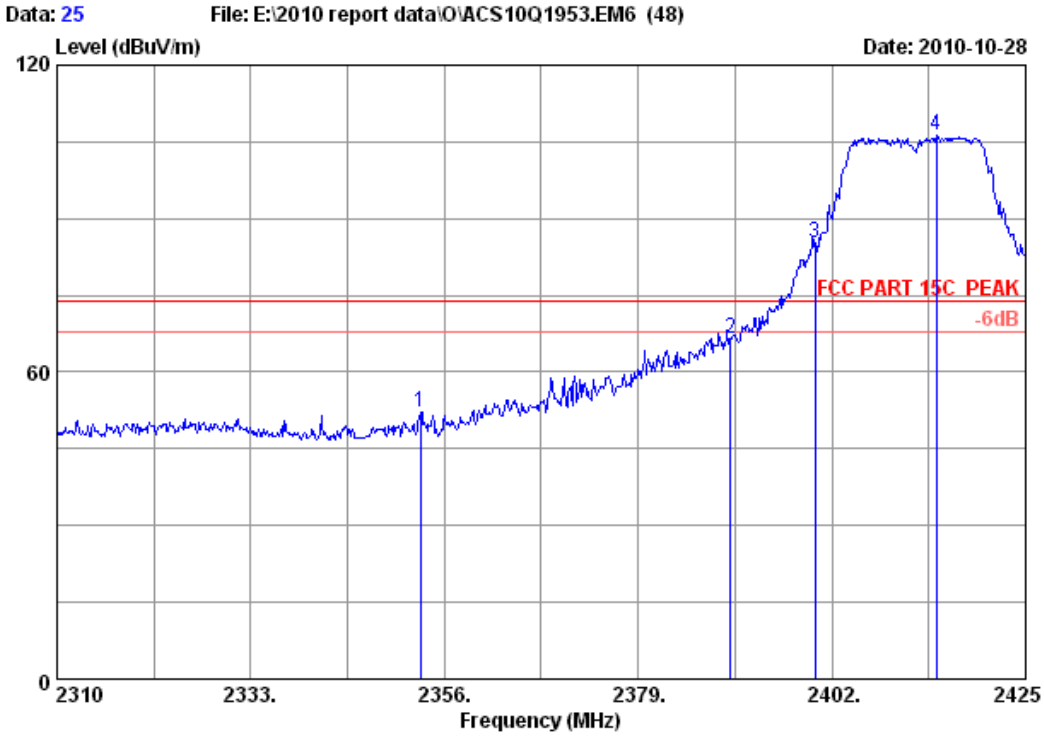
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 24
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23*C/54% Engineer : Paul Tian
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11b CH11 2462MHz
M/N : AK093
:

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2459.300	28.55	7.72	36.02	98.10	98.35	54.00	-44.35	Average
2	2483.500	28.58	7.77	35.97	41.33	41.71	54.00	12.29	Average
3	2500.000	28.60	7.77	36.00	37.34	37.71	54.00	16.29	Average

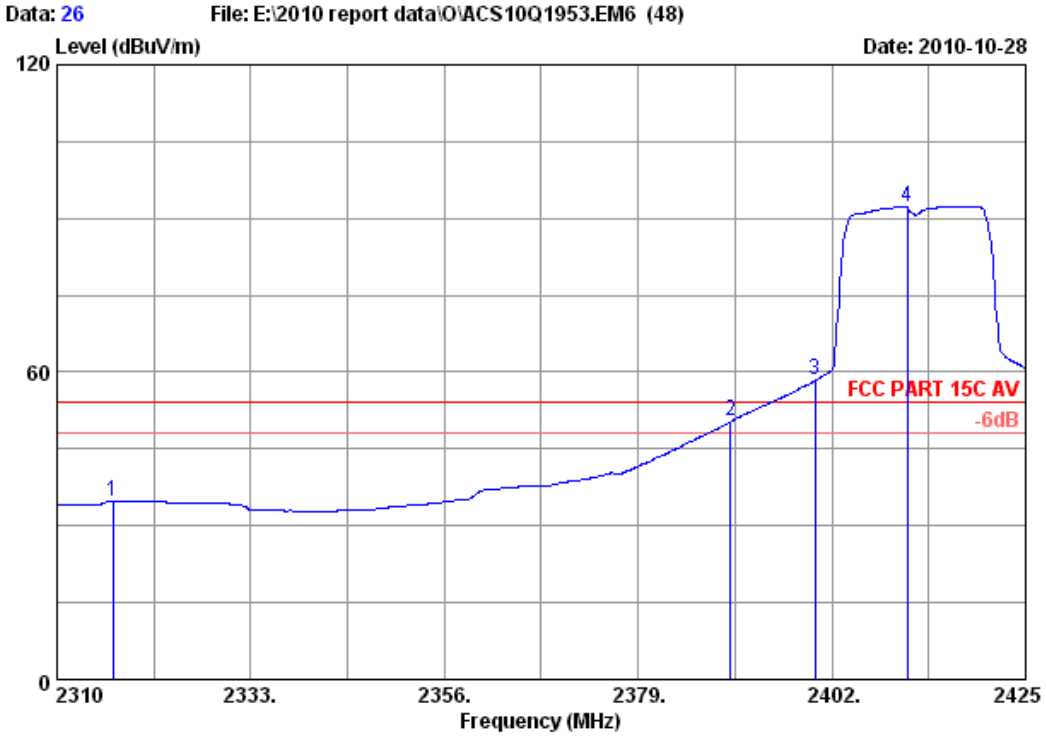
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 25
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Paul Tian
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH1 2412MHz
M/N : AK093
:

	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	2353.125	28.41	7.61	35.91	52.18	52.29	74.00	21.71	Peak
2	2390.000	28.46	7.66	36.09	66.58	66.61	74.00	7.39	Peak
3	2400.000	28.46	7.66	36.09	85.17	85.20	74.00	-11.20	Peak
4	2414.420	28.48	7.66	35.95	106.14	106.33	74.00	-32.33	Peak

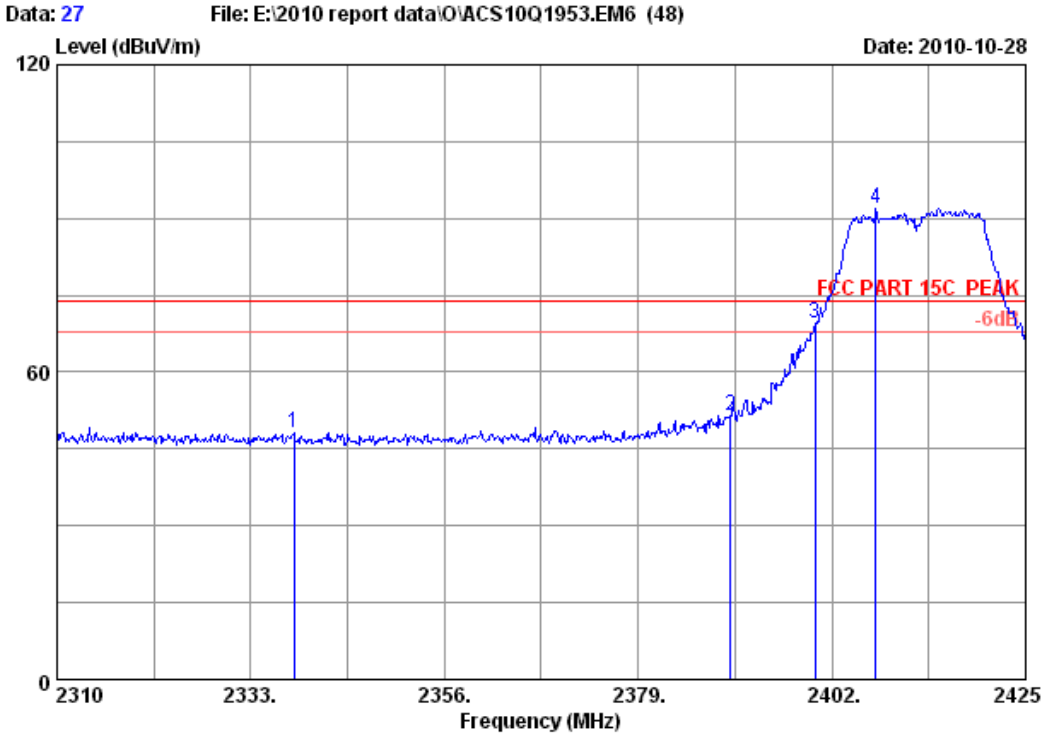
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 26
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23*C/54% Engineer : Paul Tian
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH1 2412MHz
M/N : AK093
:

	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	2316.670	28.33	7.55	35.86	34.87	34.89	54.00	19.11	Average
2	2390.000	28.46	7.66	36.09	50.45	50.48	54.00	3.52	Average
3	2400.000	28.46	7.66	36.09	58.39	58.42	54.00	-4.42	Average
4	2410.970	28.48	7.66	35.95	92.20	92.39	54.00	-38.39	Average

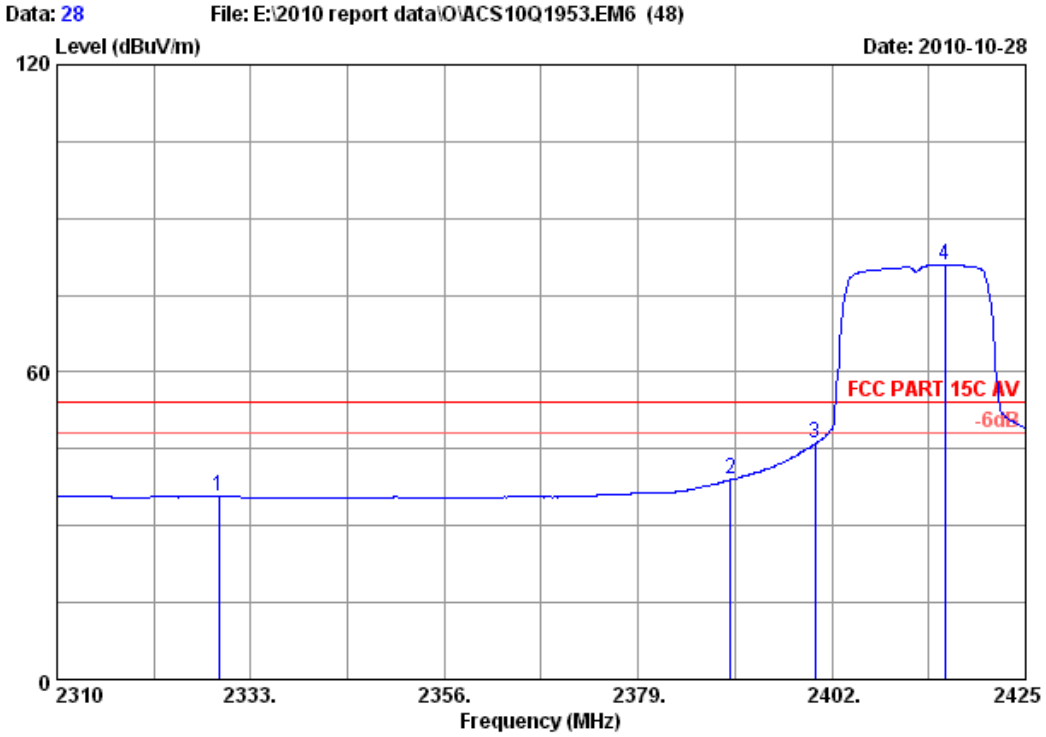
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 27
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Paul Tian
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH1 2412MHz
M/N : AK093
:

	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	2338.175	28.38	7.61	35.99	47.99	47.99	74.00	26.01	Peak
2	2390.000	28.46	7.66	36.09	51.49	51.52	74.00	22.48	Peak
3	2400.000	28.46	7.66	36.09	69.33	69.36	74.00	4.64	Peak
4	2407.175	28.48	7.66	35.95	91.80	91.99	74.00	-17.99	Peak

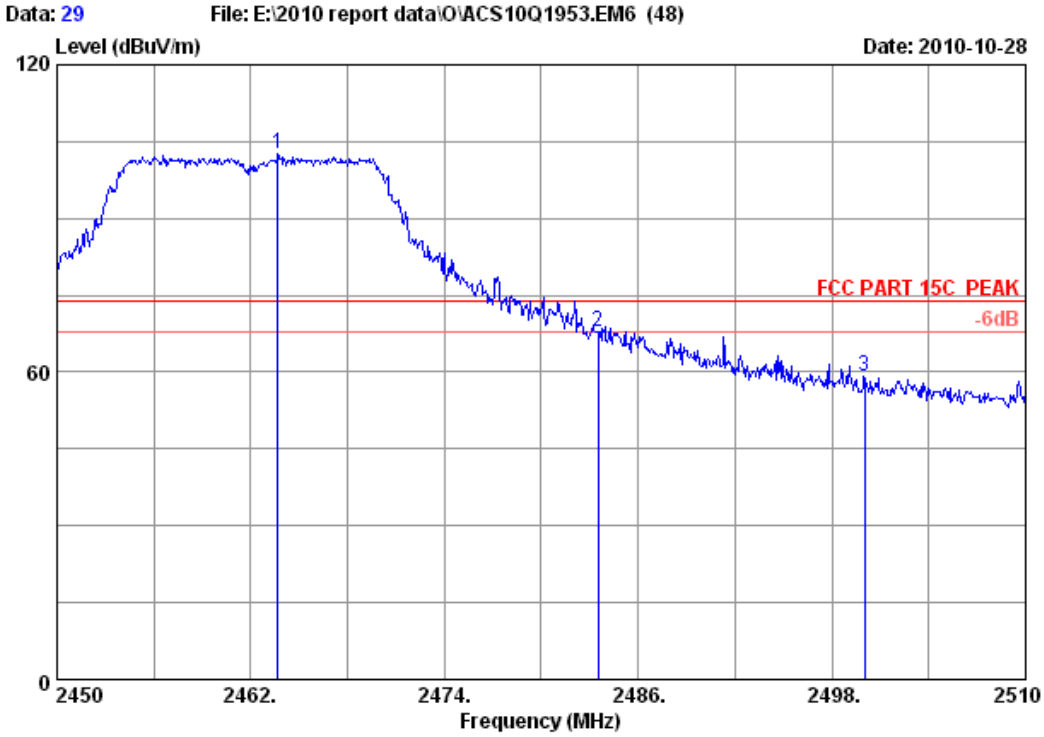
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 28
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23*C/54% Engineer : Paul Tian
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH1 2412MHz
M/N : AK093
:

	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	2329.205	28.36	7.61	36.06	35.85	35.76	54.00	18.24	Average
2	2390.000	28.46	7.66	36.09	38.93	38.96	54.00	15.04	Average
3	2400.000	28.46	7.66	36.09	46.03	46.06	54.00	7.94	Average
4	2415.455	28.48	7.66	35.95	80.75	80.94	54.00	-26.94	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.

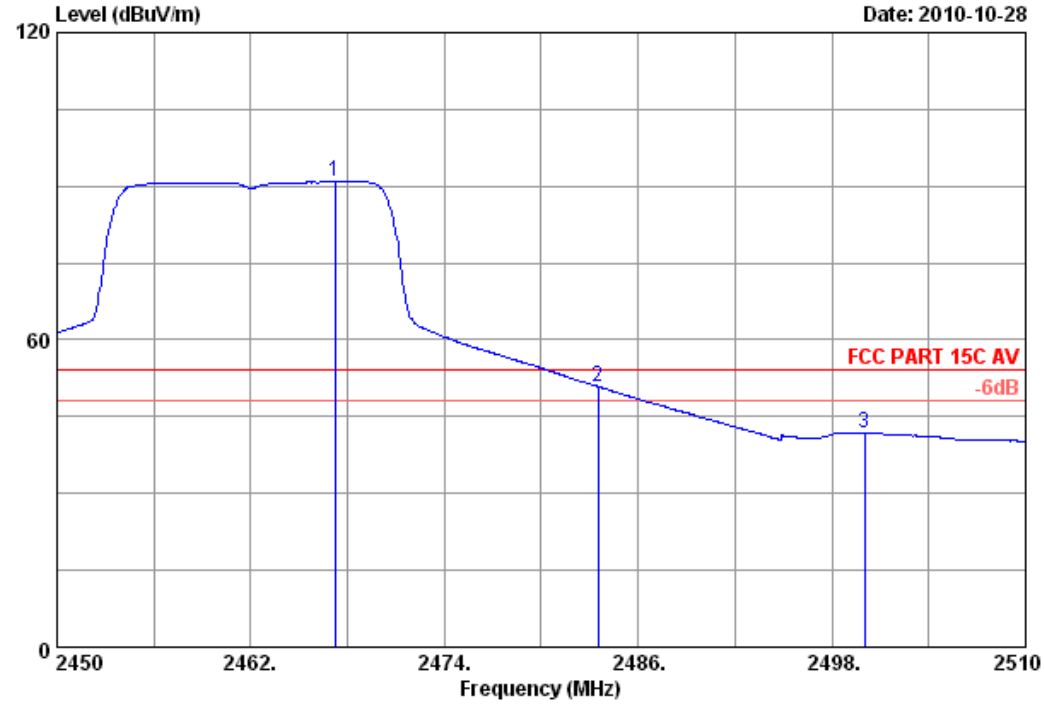


Site no. : 10m Chamber Data no. : 29
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Paul Tian
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz
M/N : AK093
:

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2463.680	28.55	7.72	36.02	102.40	102.65	74.00	-28.65	Peak
2	2483.500	28.58	7.77	35.97	67.34	67.72	74.00	6.28	Peak
3	2500.000	28.60	7.77	36.00	58.79	59.16	74.00	14.84	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.

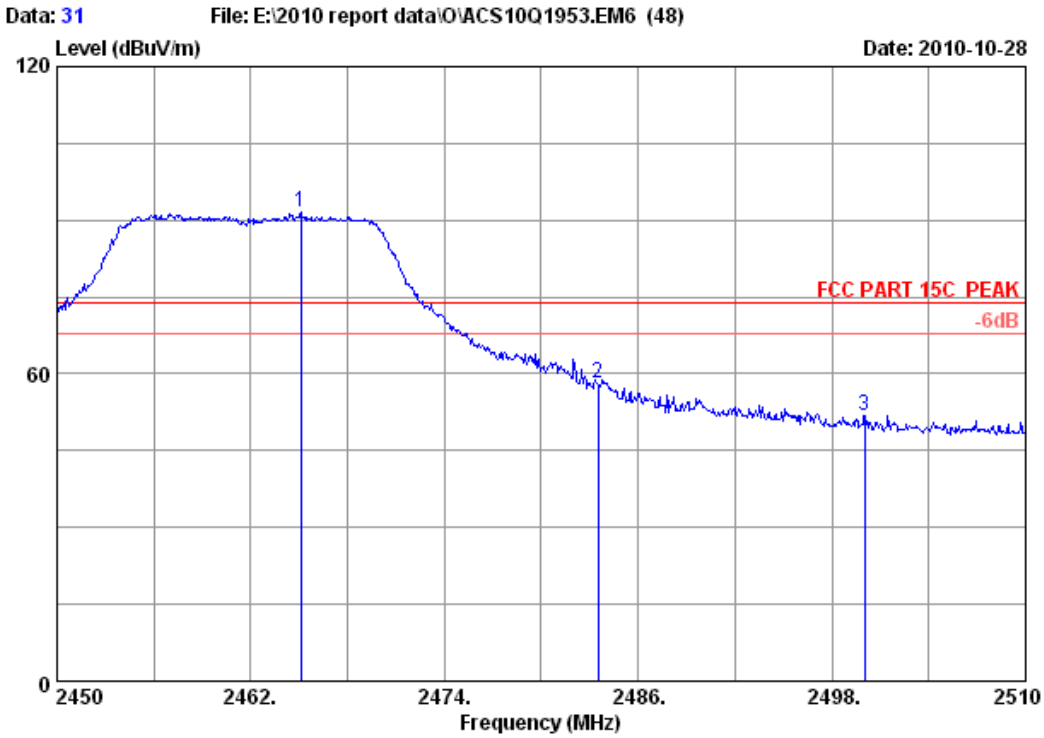
Data: 30 File: E:\2010 report data\O\ACS10Q1953.EM6 (48)



Site no. : 10m Chamber Data no. : 30
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23*C/54% Engineer : Paul Tian
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz
M/N : AK093
:

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2467.220	28.55	7.72	36.02	90.62	90.87	54.00	-36.87	Average
2	2483.500	28.58	7.77	35.97	50.55	50.93	54.00	3.07	Average
3	2500.000	28.60	7.77	36.00	41.39	41.76	54.00	12.24	Average

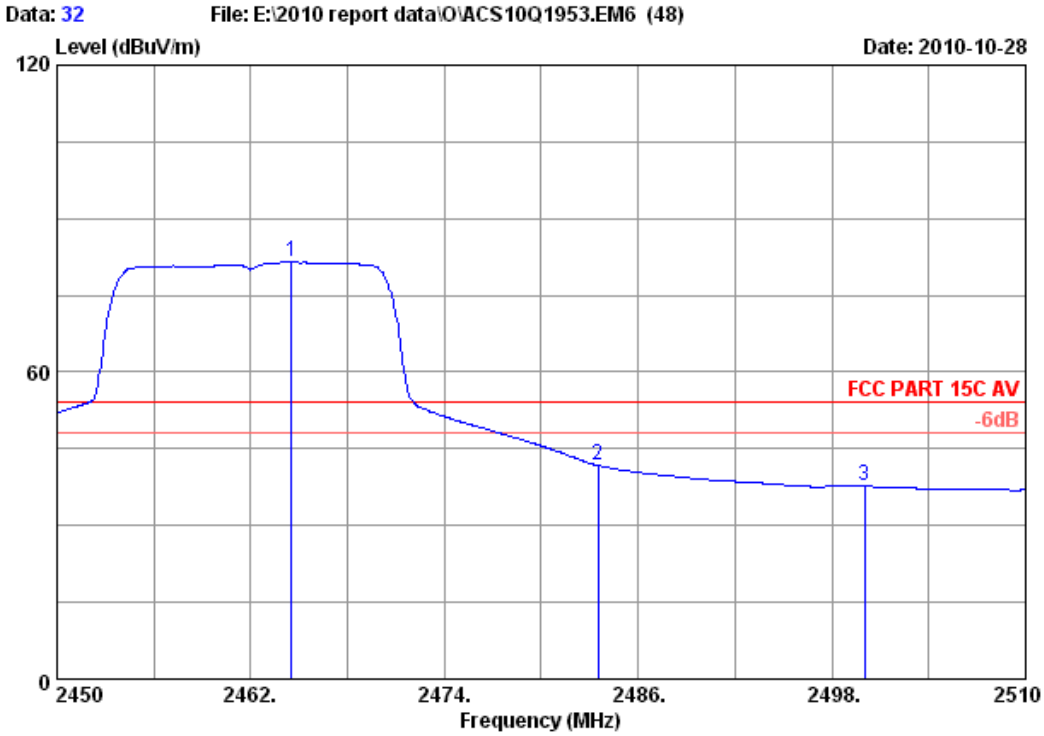
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 31
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Paul Tian
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz
M/N : AK093
:

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2465.120	28.55	7.72	36.02	91.33	91.58	74.00	-17.58	Peak
2	2483.500	28.58	7.77	35.97	57.74	58.12	74.00	15.88	Peak
3	2500.000	28.60	7.77	36.00	51.52	51.89	74.00	22.11	Peak

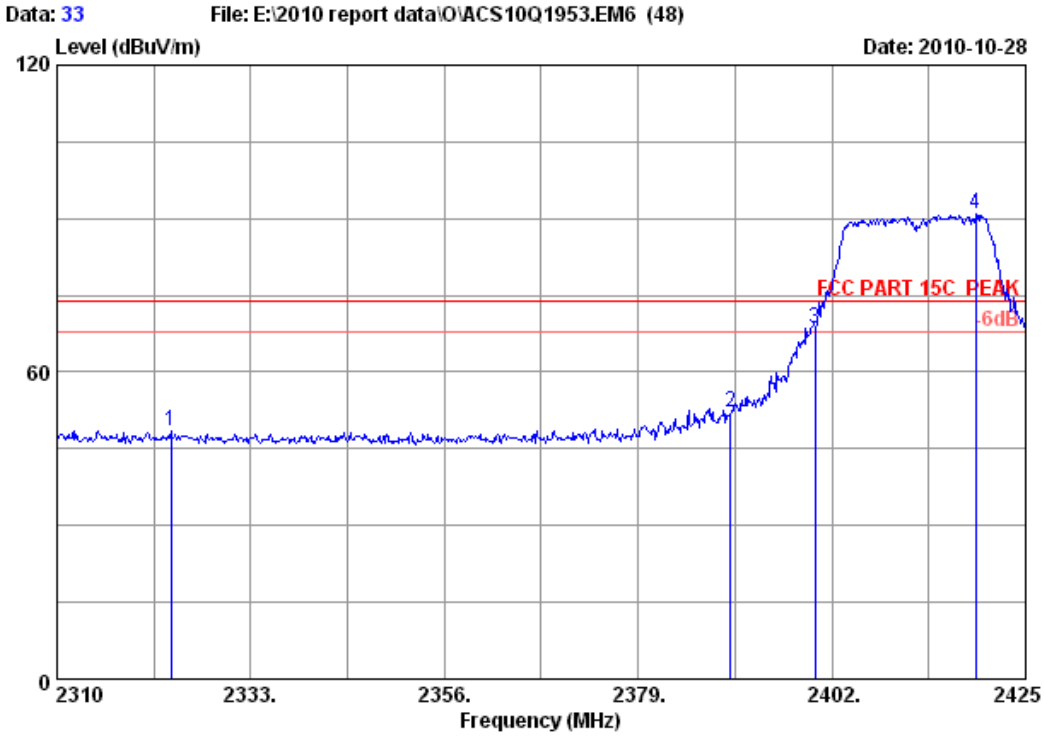
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 32
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23*C/54% Engineer : Paul Tian
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz
M/N : AK093
:

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2464.520	28.55	7.72	36.02	81.20	81.45	54.00	-27.45	Average
2	2483.500	28.58	7.77	35.97	41.34	41.72	54.00	12.28	Average
3	2500.000	28.60	7.77	36.00	37.30	37.67	54.00	16.33	Average

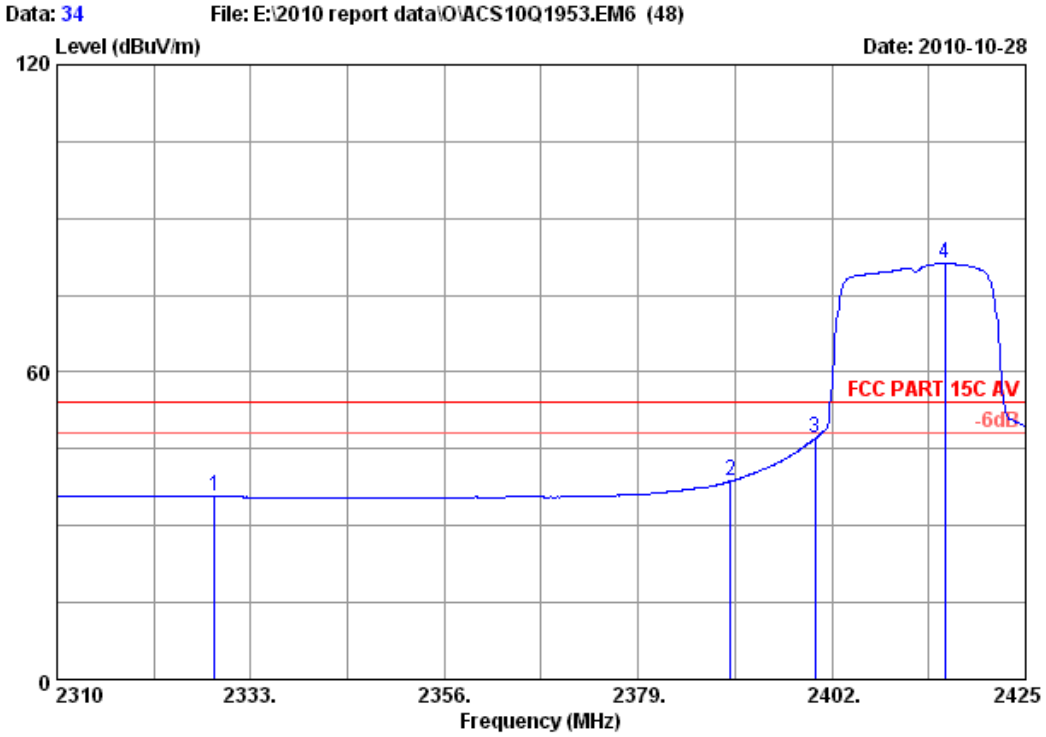
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 33
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Paul Tian
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH1 2412MHz
M/N : AK093
:

	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	2323.570	28.36	7.55	36.06	48.75	48.60	74.00	25.40	Peak
2	2390.000	28.46	7.66	36.09	52.06	52.09	74.00	21.91	Peak
3	2400.000	28.46	7.66	36.09	68.61	68.64	74.00	5.36	Peak
4	2419.020	28.48	7.66	35.95	90.60	90.79	74.00	-16.79	Peak

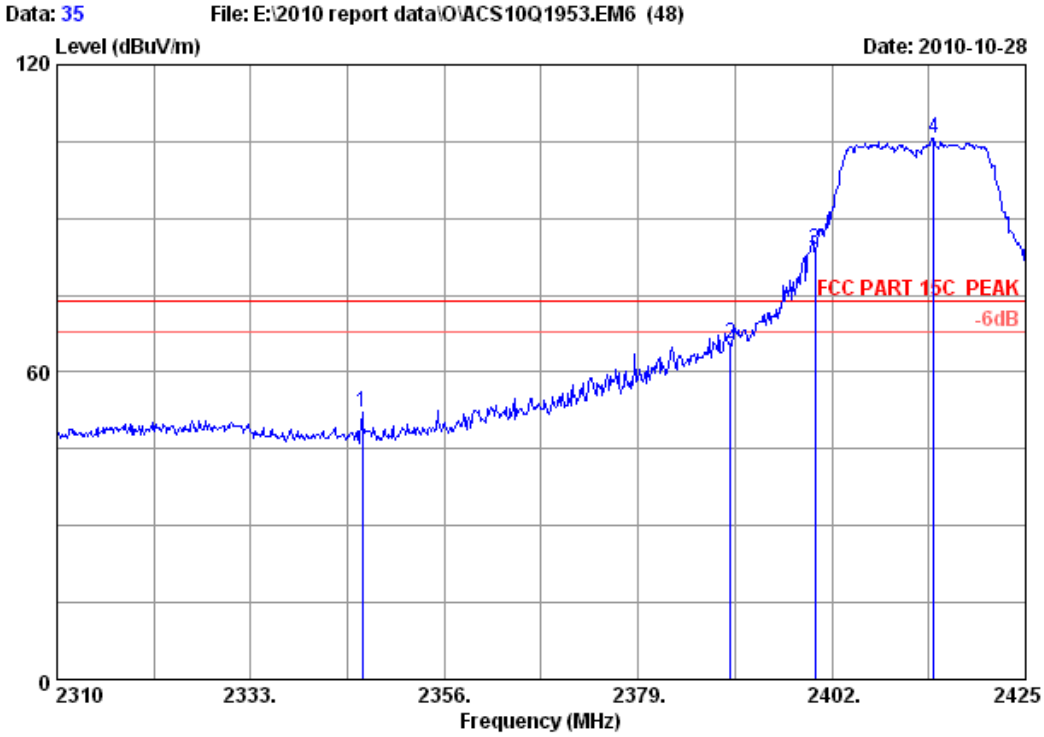
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 34
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23*C/54% Engineer : Paul Tian
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH1 2412MHz
M/N : AK093
:

	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	2328.745	28.36	7.61	36.06	35.77	35.68	54.00	18.32	Average
2	2390.000	28.46	7.66	36.09	38.69	38.72	54.00	15.28	Average
3	2400.000	28.46	7.66	36.09	47.13	47.16	54.00	6.84	Average
4	2415.455	28.48	7.66	35.95	81.05	81.24	54.00	-27.24	Average

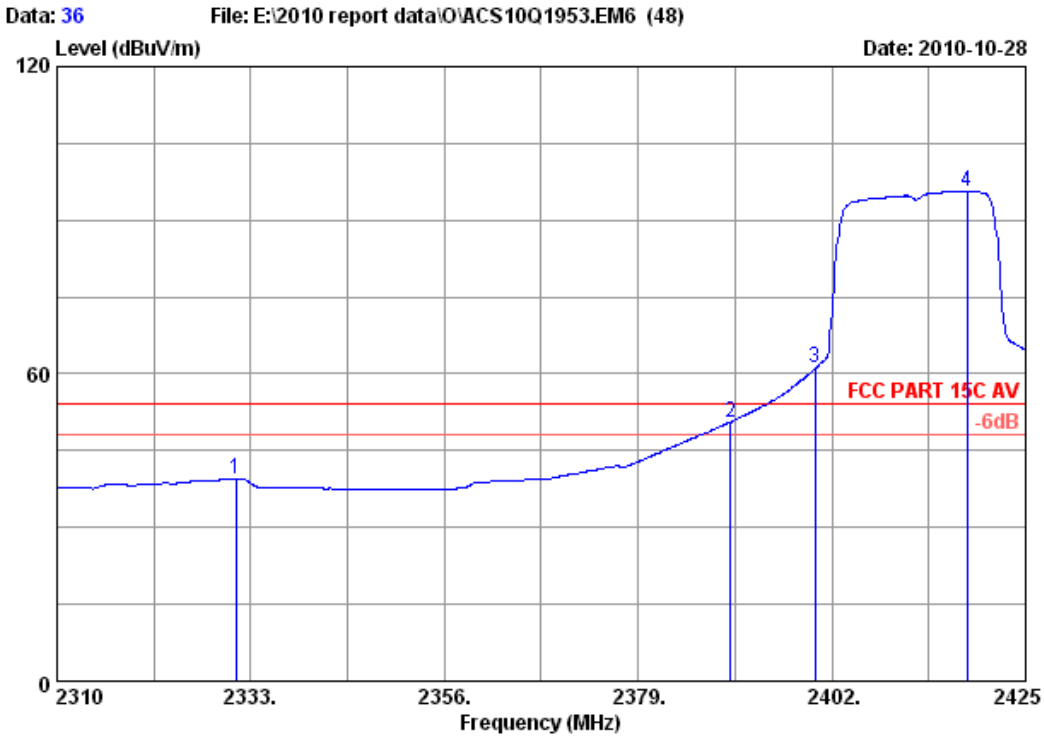
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 35
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Paul Tian
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH1 2412MHz
M/N : AK093
:

	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	2346.225	28.38	7.61	35.99	52.19	52.19	74.00	21.81	Peak
2	2390.000	28.46	7.66	36.09	65.33	65.36	74.00	8.64	Peak
3	2400.000	28.46	7.66	36.09	83.72	83.75	74.00	-9.75	Peak
4	2414.075	28.48	7.66	35.95	105.41	105.60	74.00	-31.60	Peak

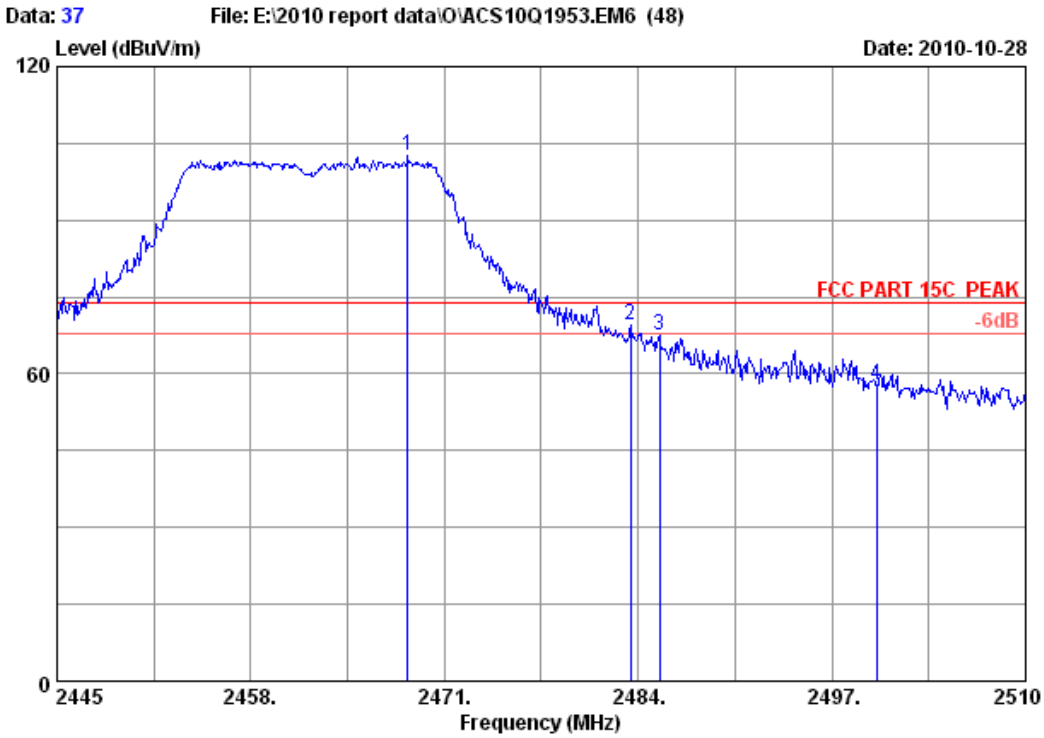
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 36
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23*C/54% Engineer : Paul Tian
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH1 2412MHz
M/N : AK093
:

	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	2331.275	28.36	7.61	36.06	39.49	39.40	54.00	14.60	Average
2	2390.000	28.46	7.66	36.09	50.59	50.62	54.00	3.38	Average
3	2400.000	28.46	7.66	36.09	61.10	61.13	54.00	-7.13	Average
4	2418.100	28.48	7.66	35.95	95.39	95.58	54.00	-41.58	Average

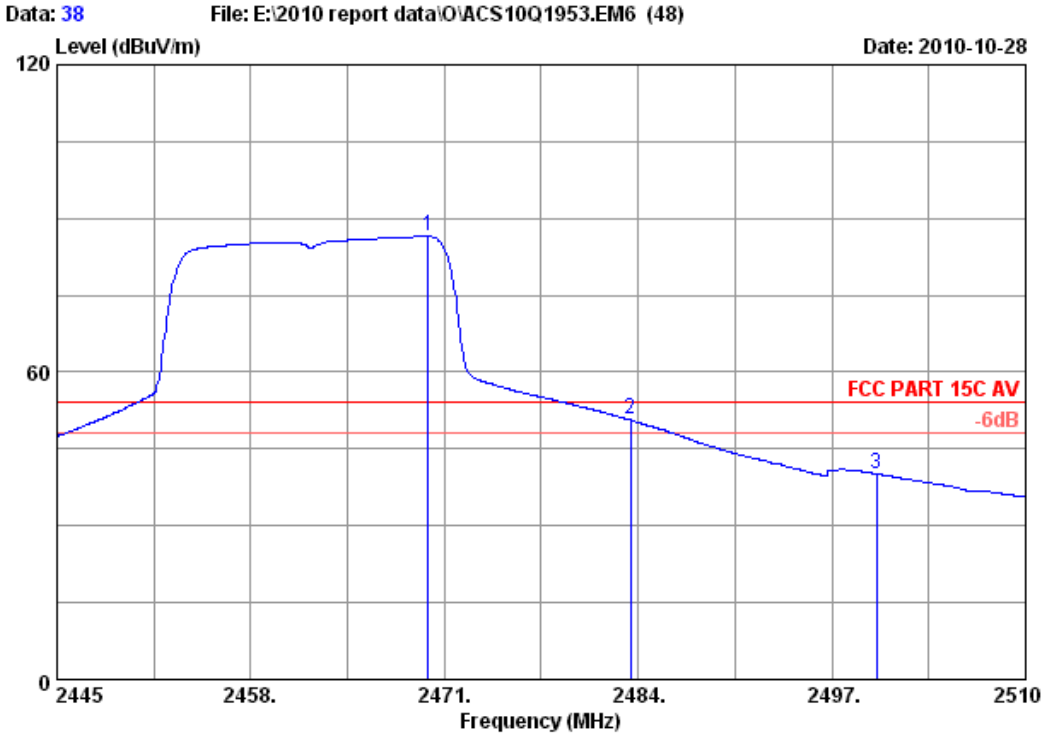
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 37
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Paul Tian
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH11 2462MHz
M/N : AK093
:

	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	2468.530	28.55	7.72	36.02	102.27	102.52	74.00	-28.52	Peak
2	2483.500	28.58	7.77	35.97	69.20	69.58	74.00	4.42	Peak
3	2485.430	28.58	7.77	35.97	66.99	67.37	74.00	6.63	Peak
4	2500.000	28.60	7.77	36.00	57.37	57.74	74.00	16.26	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.

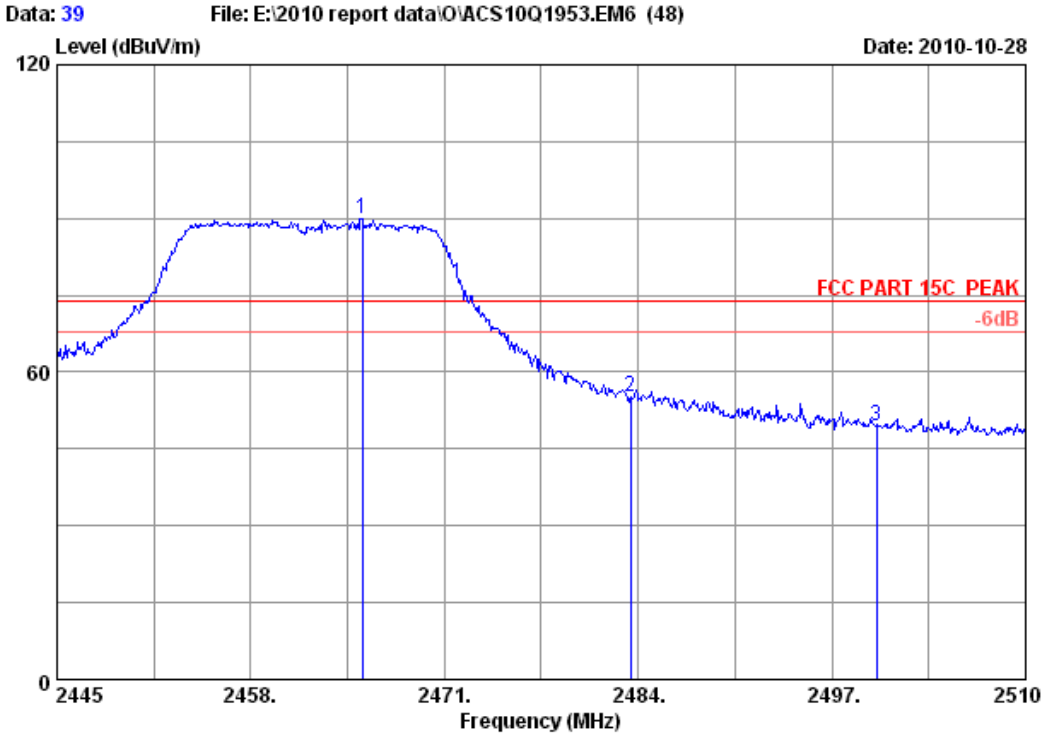



```
Site no.      : 10m Chamber                Data no. : 38
Dis. / Ant.   : 3m   3115(0905)            Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C AV
Env. / Ins.   : 23*C/54%                   Engineer  : Paul Tian
EUT           : 150Mbps Wireless Lite N USB Adapter
Power         : DC 5V From PC input AC 120V/60Hz
Test mode     : IEEE802.11n HT20 CH11 2462MHz
M/N           : AK093
              :
```

	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	2469.895	28.55	7.72	36.02	86.23	86.48	54.00	-32.48	Average
2	2483.500	28.58	7.77	35.97	50.33	50.71	54.00	3.29	Average
3	2500.000	28.60	7.77	36.00	39.76	40.13	54.00	13.87	Average

Remarks:

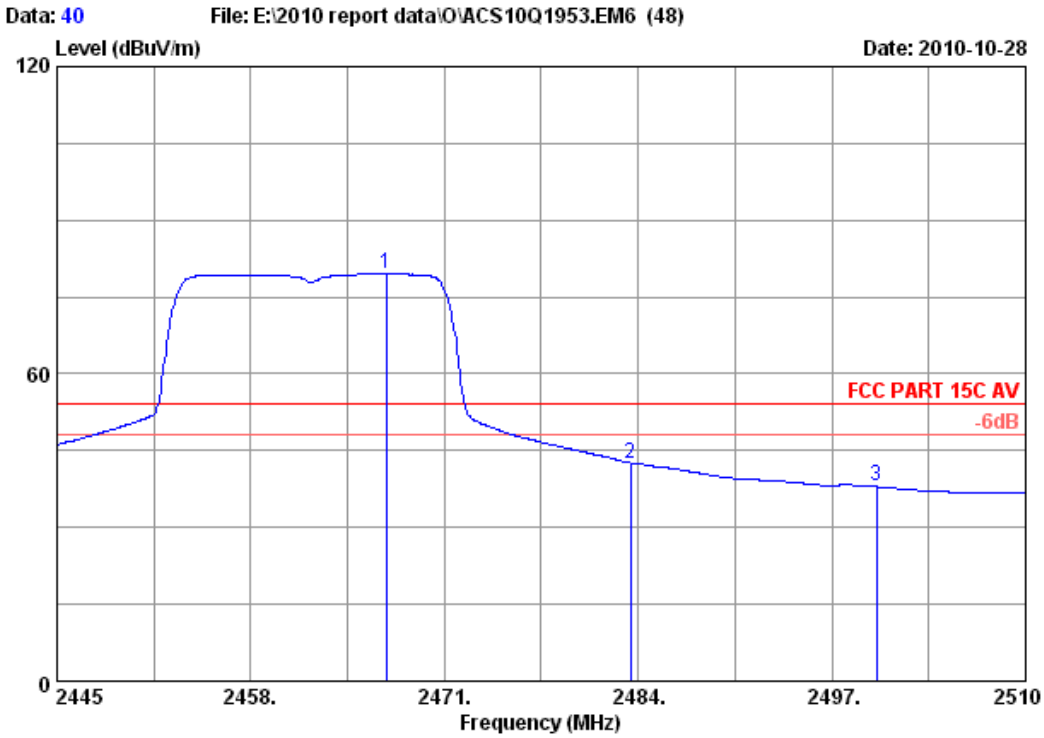
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 39
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Paul Tian
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH11 2462MHz
M/N : AK093
:

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2465.475	28.55	7.72	36.02	89.72	89.97	74.00	-15.97	Peak
2	2483.500	28.58	7.77	35.97	54.86	55.24	74.00	18.76	Peak
3	2500.000	28.60	7.77	36.00	49.19	49.56	74.00	24.44	Peak

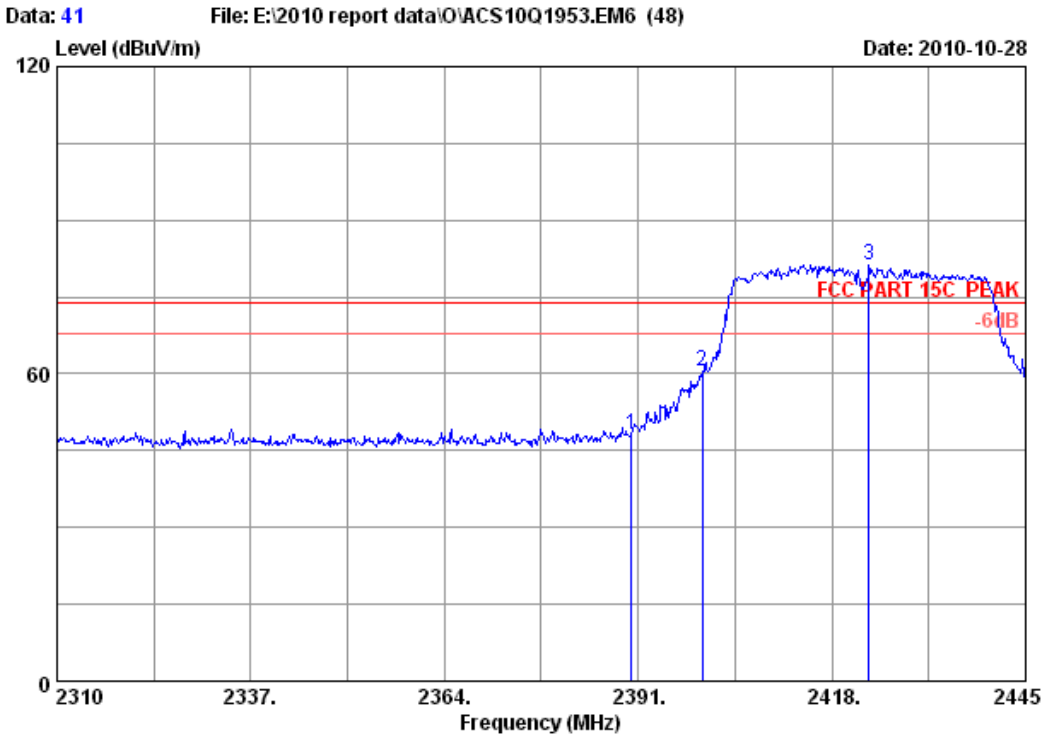
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 40
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23*C/54% Engineer : Paul Tian
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH11 2462MHz
M/N : AK093
:

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2467.100	28.55	7.72	36.02	79.28	79.53	54.00	-25.53	Average
2	2483.500	28.58	7.77	35.97	42.21	42.59	54.00	11.41	Average
3	2500.000	28.60	7.77	36.00	37.57	37.94	54.00	16.06	Average

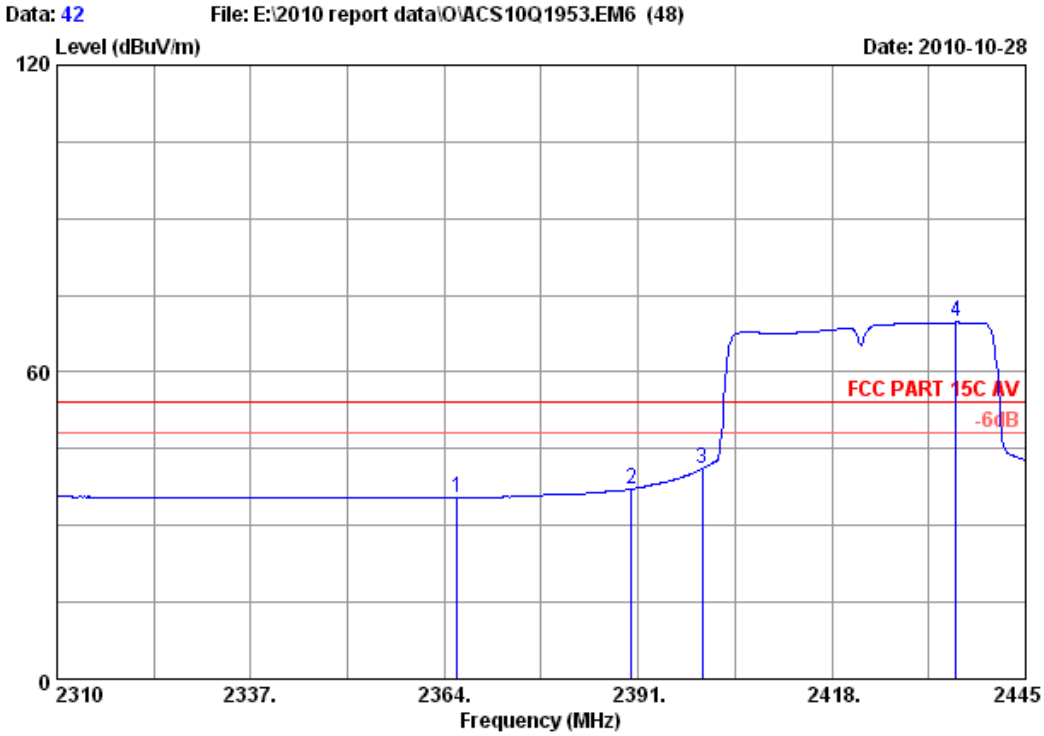
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 41
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Paul Tian
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH1 2422MHz
M/N : AK093
:

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	28.46	7.66	36.09	48.08	48.11	74.00	25.89	Peak
2	2400.000	28.46	7.66	36.09	60.60	60.63	74.00	13.37	Peak
3	2423.130	28.50	7.66	36.01	81.11	81.26	74.00	-7.26	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.

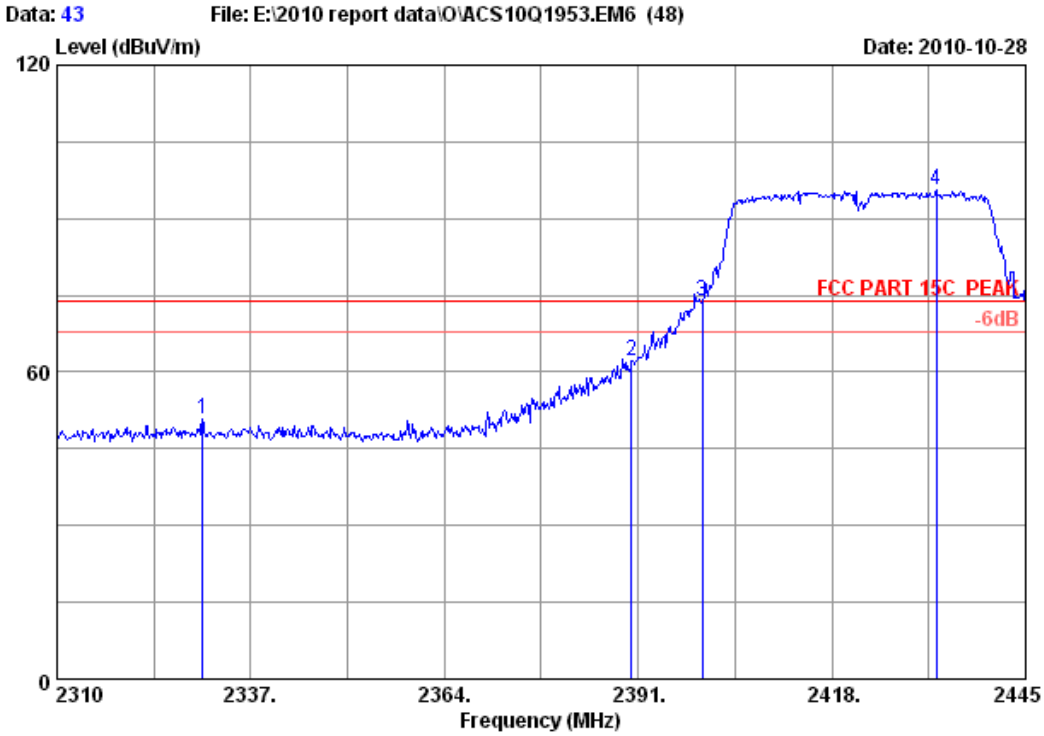



```
Site no.      : 10m Chamber                Data no. : 42
Dis. / Ant.   : 3m   3115(0905)            Ant. pol. : VERTICAL
Limit         : FCC PART 15C AV
Env. / Ins.   : 23*C/54%                   Engineer  : Paul Tian
EUT           : 150Mbps Wireless Lite N USB Adapter
Power         : DC 5V From PC input AC 120V/60Hz
Test mode     : IEEE802.11n HT40 CH1 2422MHz
M/N           : AK093
              :
```

	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	2365.755	28.41	7.61	35.91	35.43	35.54	54.00	18.46	Average
2	2390.000	28.46	7.66	36.09	37.09	37.12	54.00	16.88	Average
3	2400.000	28.46	7.66	36.09	41.14	41.17	54.00	12.83	Average
4	2435.280	28.50	7.72	36.01	69.54	69.75	54.00	-15.75	Average

Remarks:

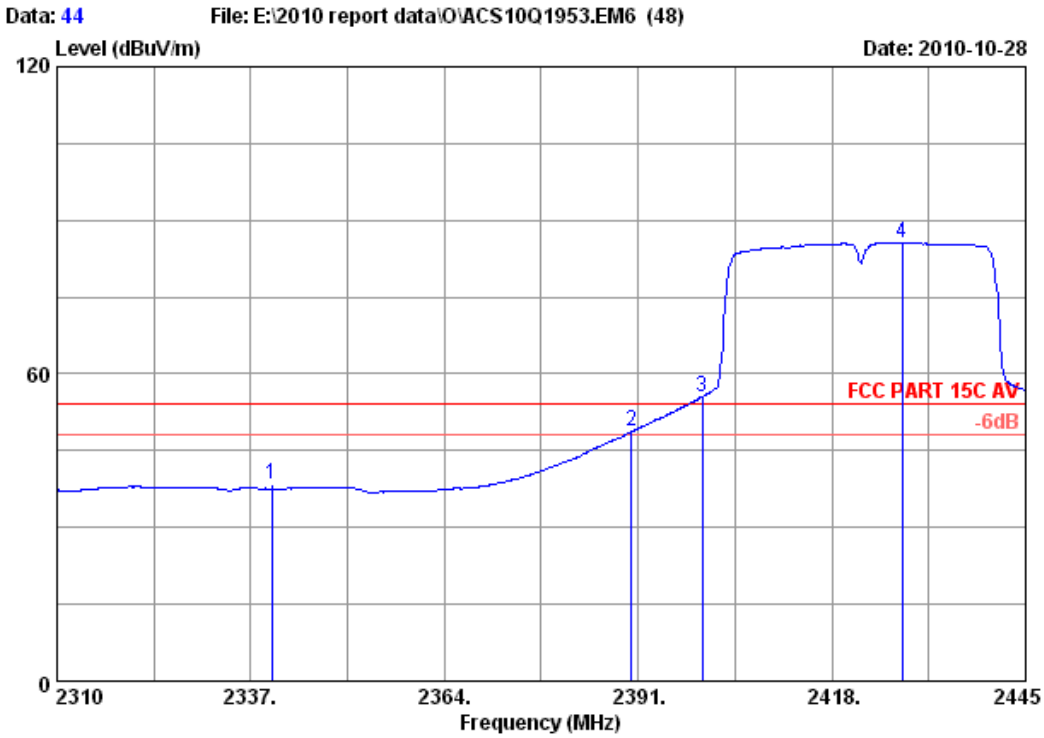
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 43
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Paul Tian
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH1 2422MHz
M/N : AK093
:

	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	2330.250	28.36	7.61	36.06	50.85	50.76	74.00	23.24	Peak
2	2390.000	28.46	7.66	36.09	62.03	62.06	74.00	11.94	Peak
3	2400.000	28.46	7.66	36.09	73.99	74.02	74.00	-0.02	Peak
4	2432.580	28.50	7.72	36.01	95.45	95.66	74.00	-21.66	Peak

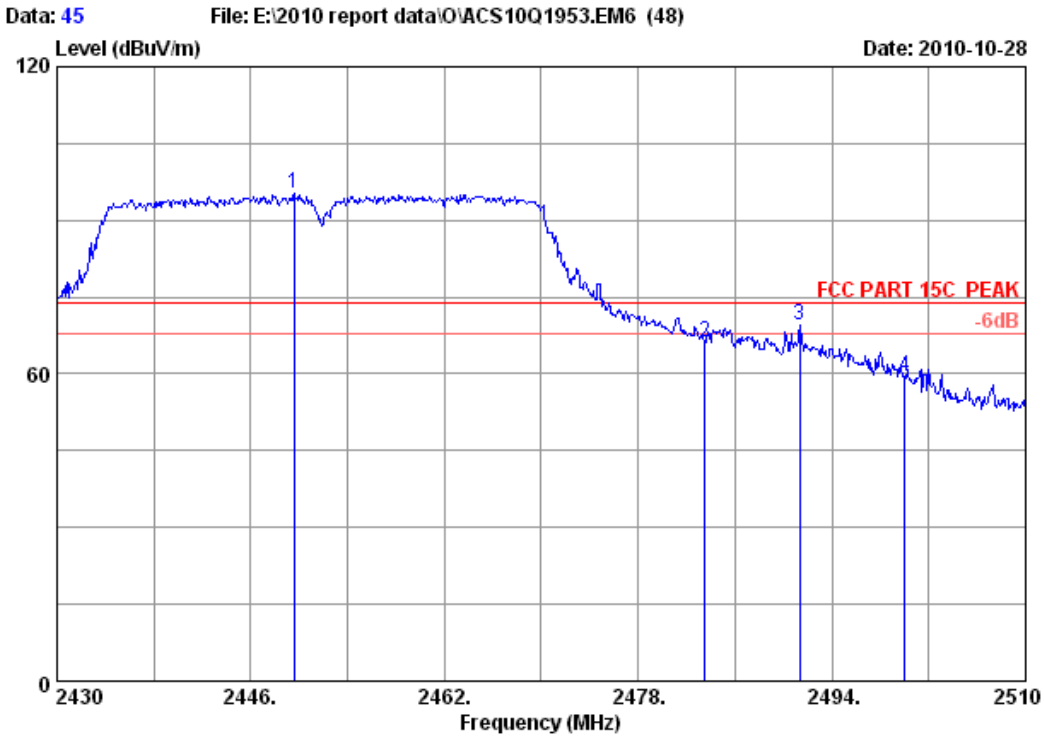
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 44
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23*C/54% Engineer : Paul Tian
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH1 2422MHz
M/N : AK093
:

	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	2339.970	28.38	7.61	35.99	38.29	38.29	54.00	15.71	Average
2	2390.000	28.46	7.66	36.09	48.62	48.65	54.00	5.35	Average
3	2400.000	28.46	7.66	36.09	55.57	55.60	54.00	-1.60	Average
4	2427.855	28.50	7.72	36.01	85.29	85.50	54.00	-31.50	Average

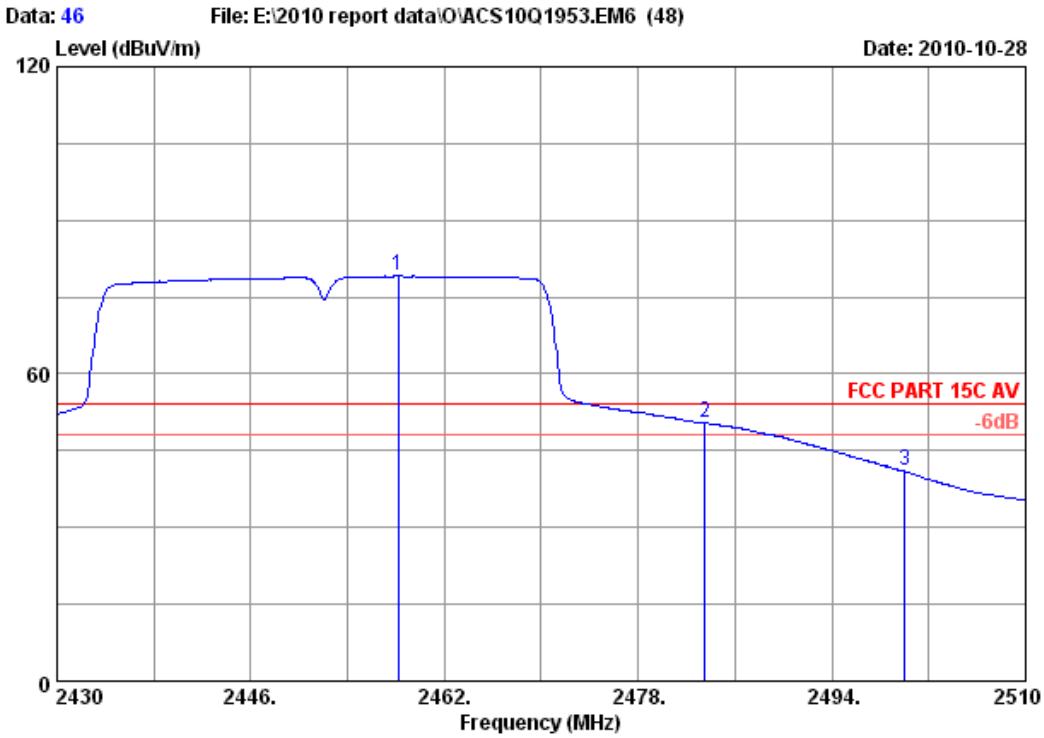
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 45
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Paul Tian
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH7 2452MHz
M/N : AK093
:

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2449.600	28.53	7.72	36.06	94.92	95.11	74.00	-21.11	Peak
2	2483.500	28.58	7.77	35.97	65.85	66.23	74.00	7.77	Peak
3	2491.360	28.60	7.77	36.00	69.22	69.59	74.00	4.41	Peak
4	2500.000	28.60	7.77	36.00	59.26	59.63	74.00	14.37	Peak

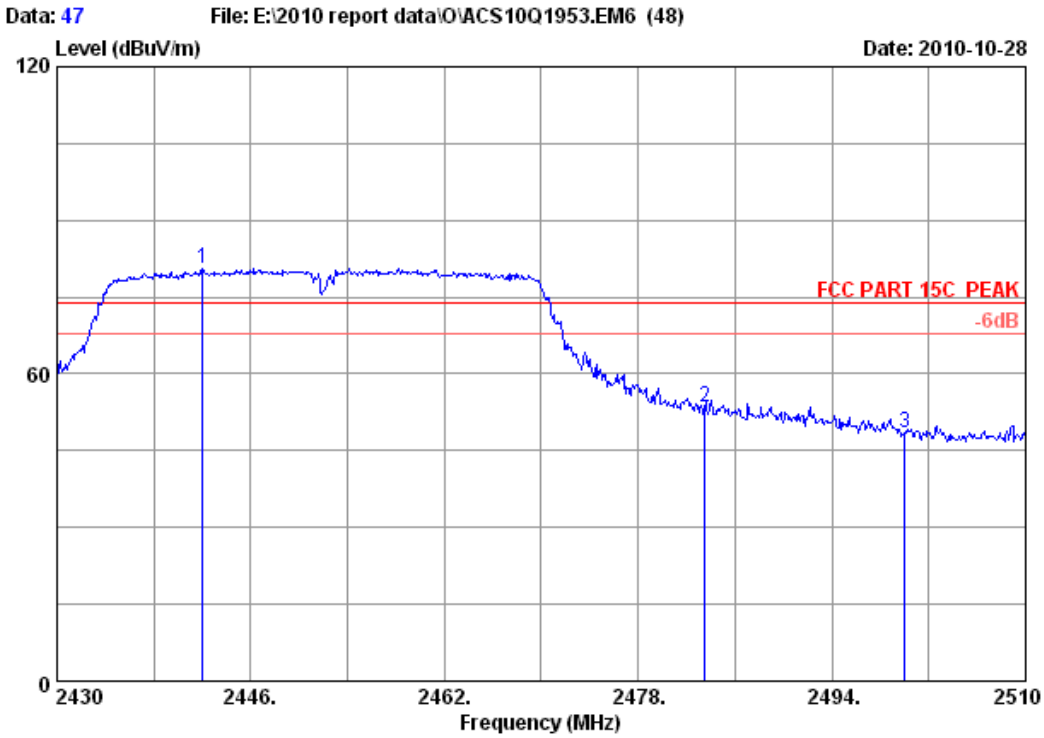
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 46
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23*C/54% Engineer : Paul Tian
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH7 2452MHz
M/N : AK093
:

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2458.160	28.55	7.72	36.02	78.83	79.08	54.00	-25.08	Average
2	2483.500	28.58	7.77	35.97	50.08	50.46	54.00	3.54	Average
3	2500.000	28.60	7.77	36.00	40.59	40.96	54.00	13.04	Average

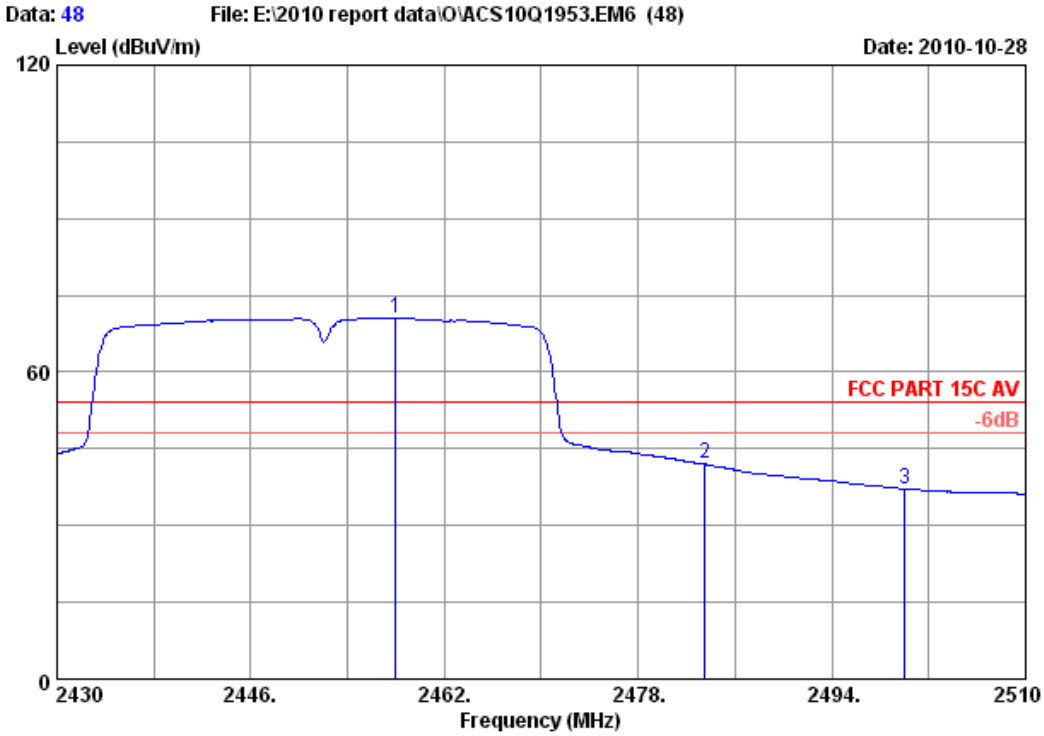
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 47
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Paul Tian
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH7 2452MHz
M/N : AK093
:

	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	2442.000	28.53	7.72	36.06	80.36	80.55	74.00	-6.55	Peak
2	2483.500	28.58	7.77	35.97	53.24	53.62	74.00	20.38	Peak
3	2500.000	28.60	7.77	36.00	48.09	48.46	74.00	25.54	Peak

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



Site no. : 10m Chamber Data no. : 48
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23*C/54% Engineer : Paul Tian
EUT : 150Mbps Wireless Lite N USB Adapter
Power : DC 5V From PC input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH7 2452MHz
M/N : AK093
:

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2458.000	28.55	7.72	36.02	70.27	70.52	54.00	-16.52	Average
2	2483.500	28.58	7.77	35.97	41.60	41.98	54.00	12.02	Average
3	2500.000	28.60	7.77	36.00	36.82	37.19	54.00	16.81	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.

7. 6dB and 99% 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.

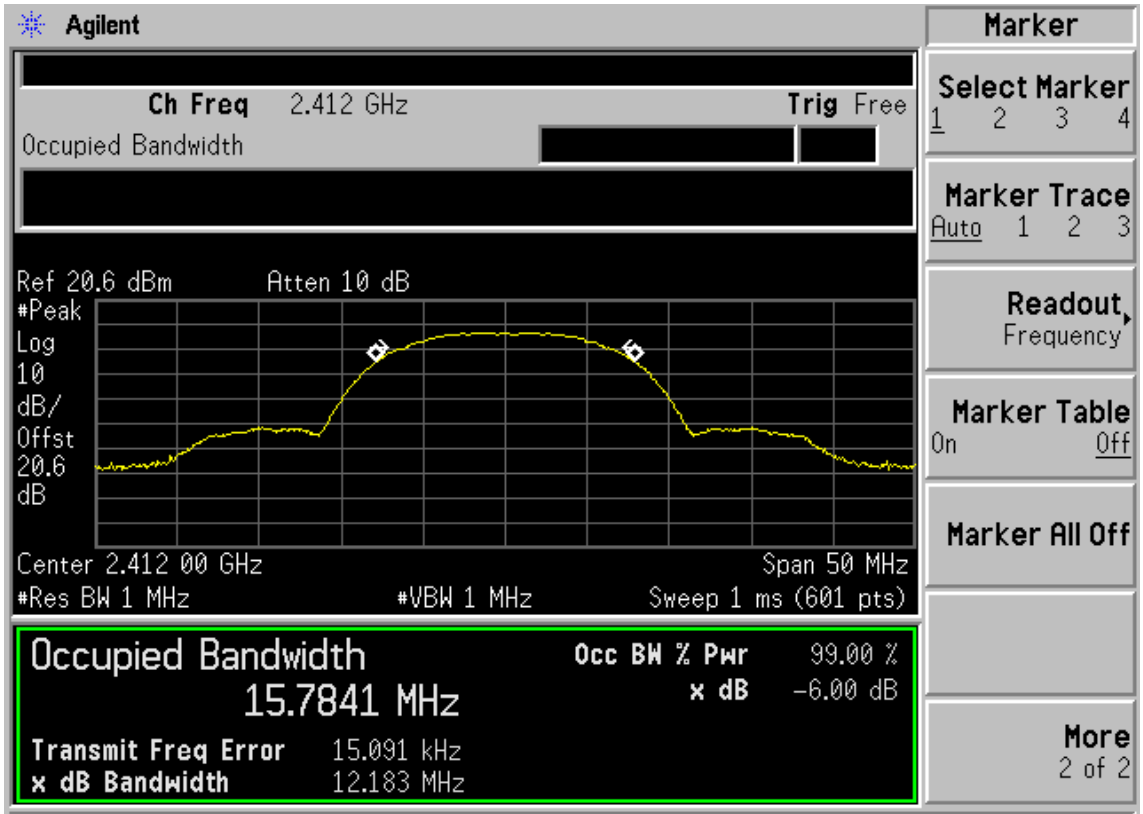
7.4.Test Results

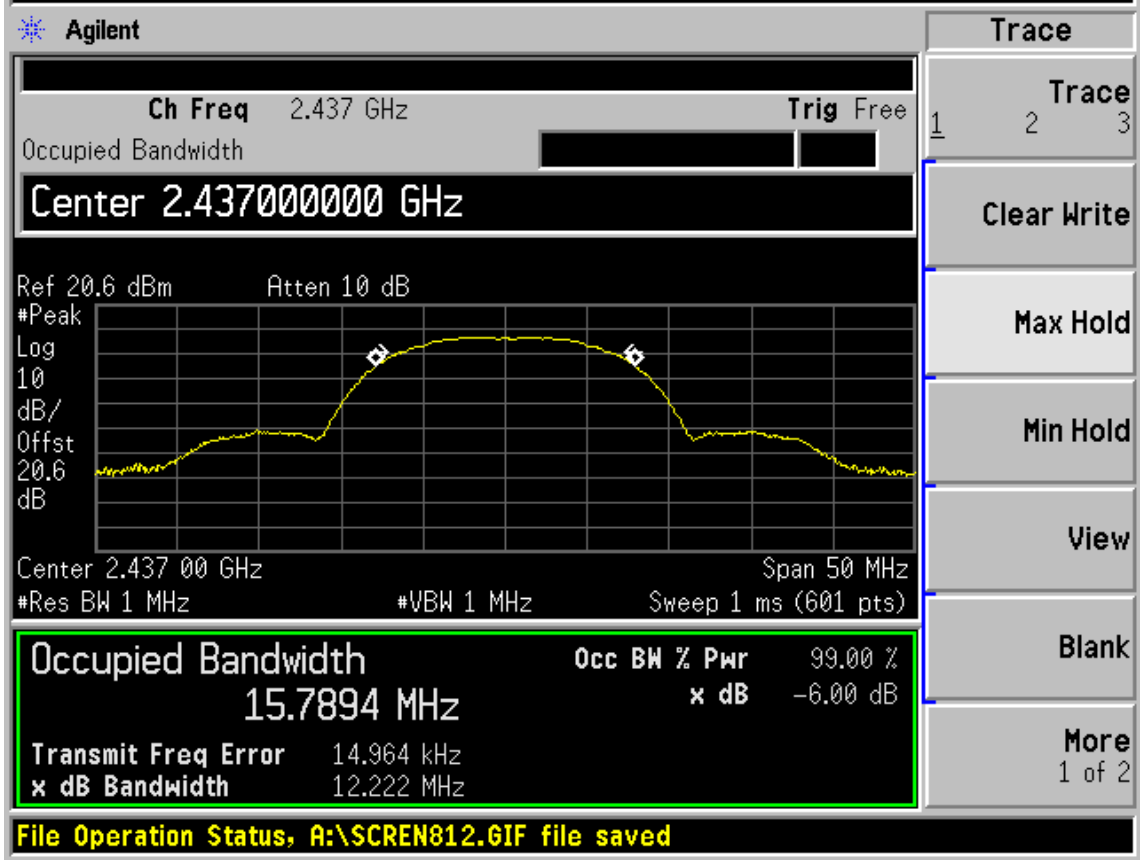
EUT:150Mbps Wireless Lite N USB Adapter		
M/N:AK093		
Test date:2010-10-28	Pressure: 100.6 kpa	Humidity: 60 %
Tested by:Sunny-lu	Test site: RF Site	Temperature： 25℃

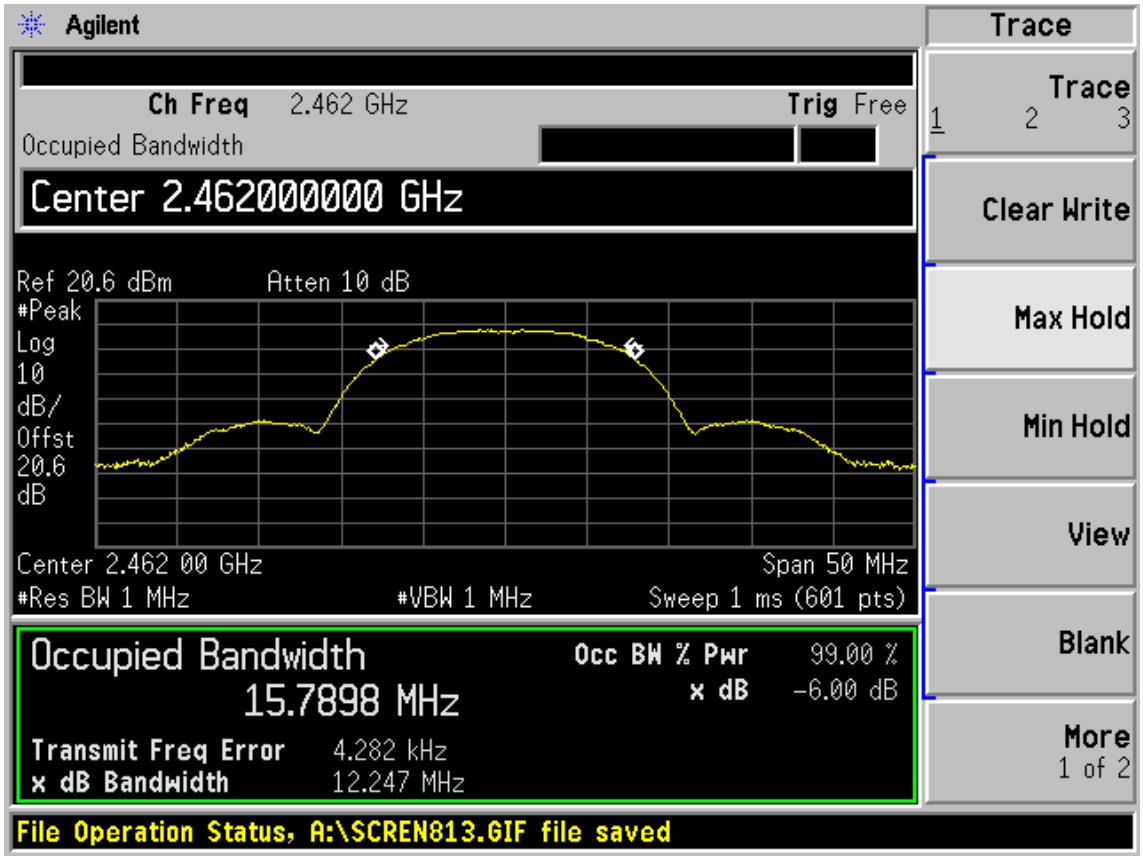
Cable loss: 0.6 dB		Attenuator loss: 20 dB	Antenna Gain: 2.12 dBi
Test Mode	CH	6dB bandwidth （MHz）	Limit (KHz)
11b	CH1	12.183	>500
	CH6	12.222	>500
	CH11	12.247	>500
11g	CH1	16.906	>500
	CH6	17.179	>500
	CH11	16.759	>500
11n HT20	CH1	17.910	>500
	CH6	17.996	>500
	CH11	18.268	>500
11n HT40	CH1	36.803	>500
	CH4	36.810	>500
	CH7	36.591	>500
Conclusion：PASS			

Test Mode	CH	99% bandwidth （MHz）	Limit (KHz)
11b	CH1	15.78	N/A
	CH6	15.79	N/A
	CH11	15.79	N/A
11g	CH1	18.94	N/A
	CH6	19.07	N/A
	CH11	18.78	N/A
11n HT20	CH1	19.82	N/A
	CH6	19.79	N/A
	CH11	20.26	N/A
11n HT40	CH1	37.65	N/A
	CH4	37.88	N/A
	CH7	37.47	N/A
Conclusion：PASS			

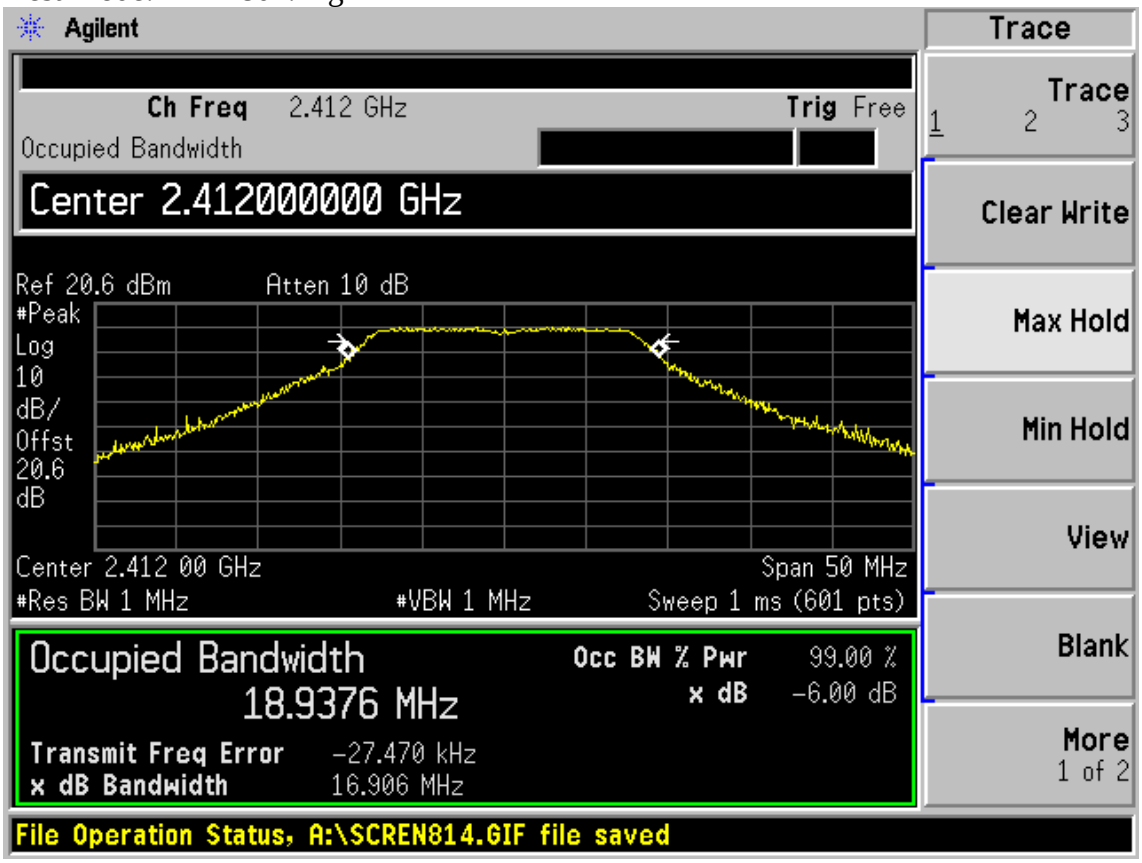
Test Mode: IEEE 802.11b TX

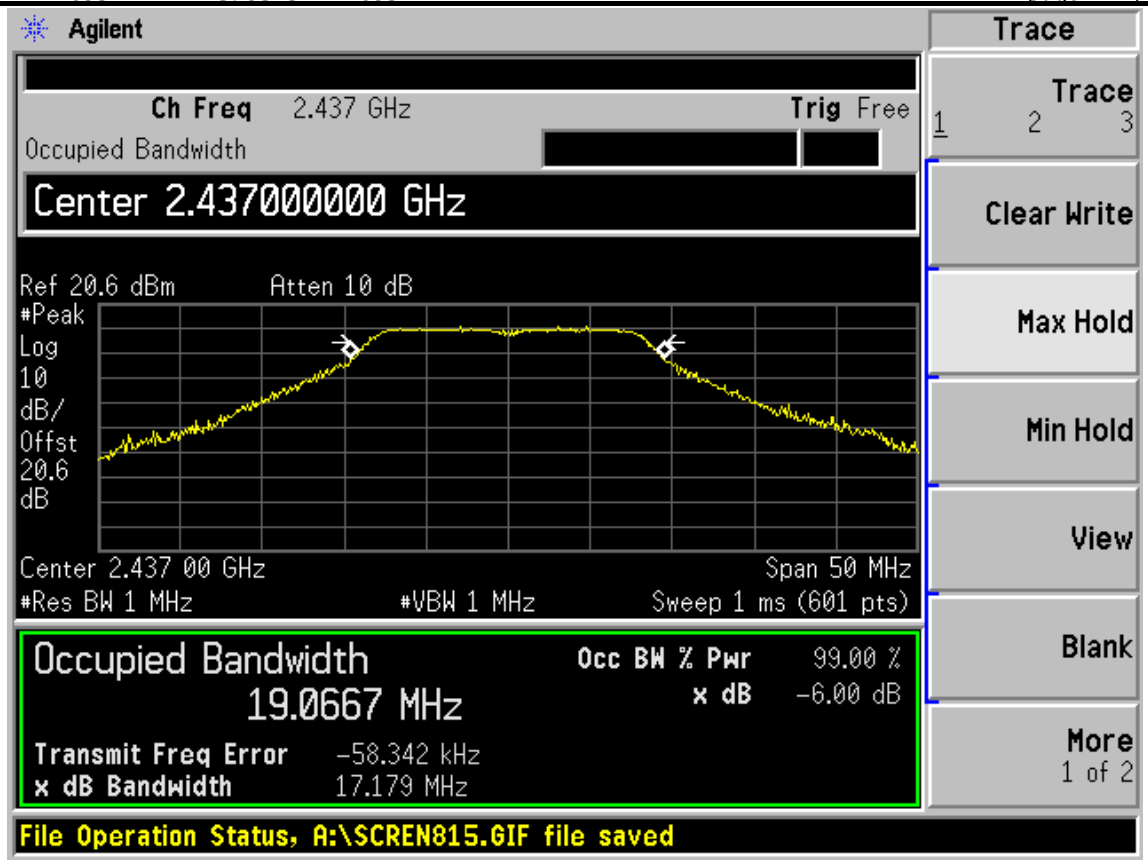


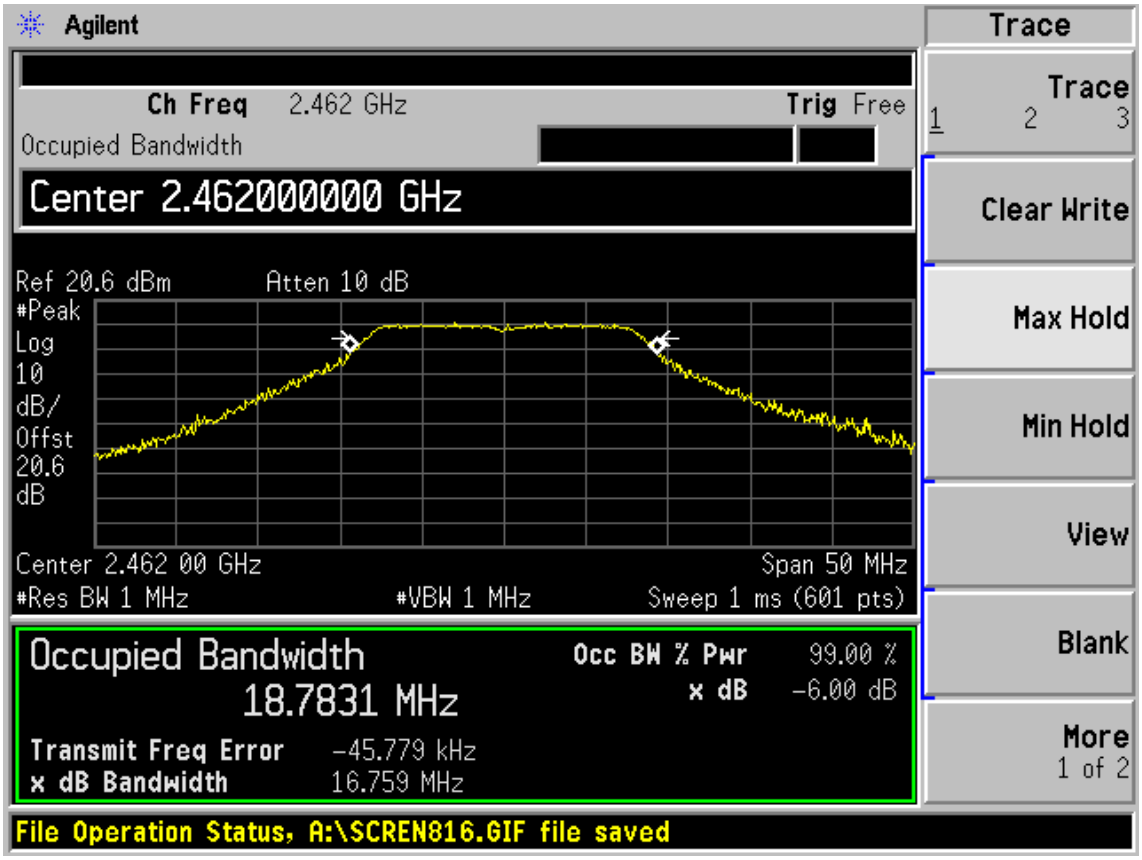




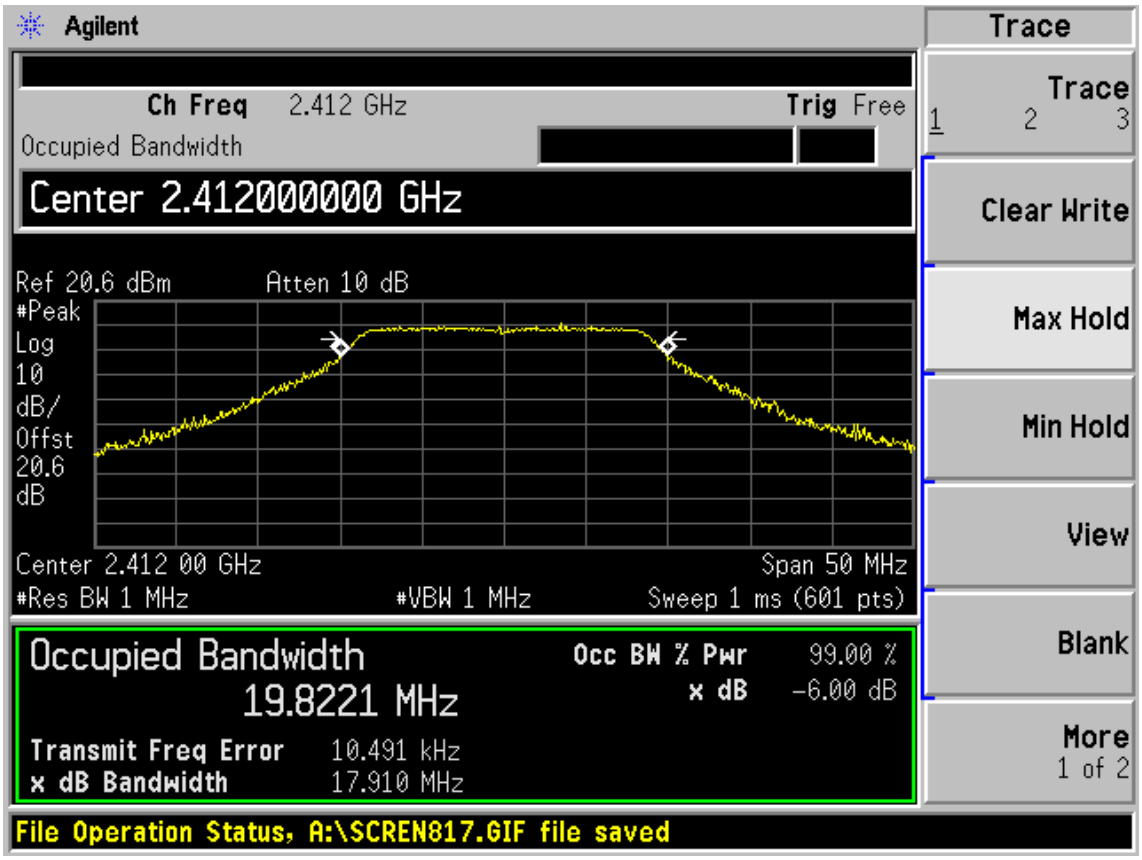
Test Mode: IEEE 802.11g TX

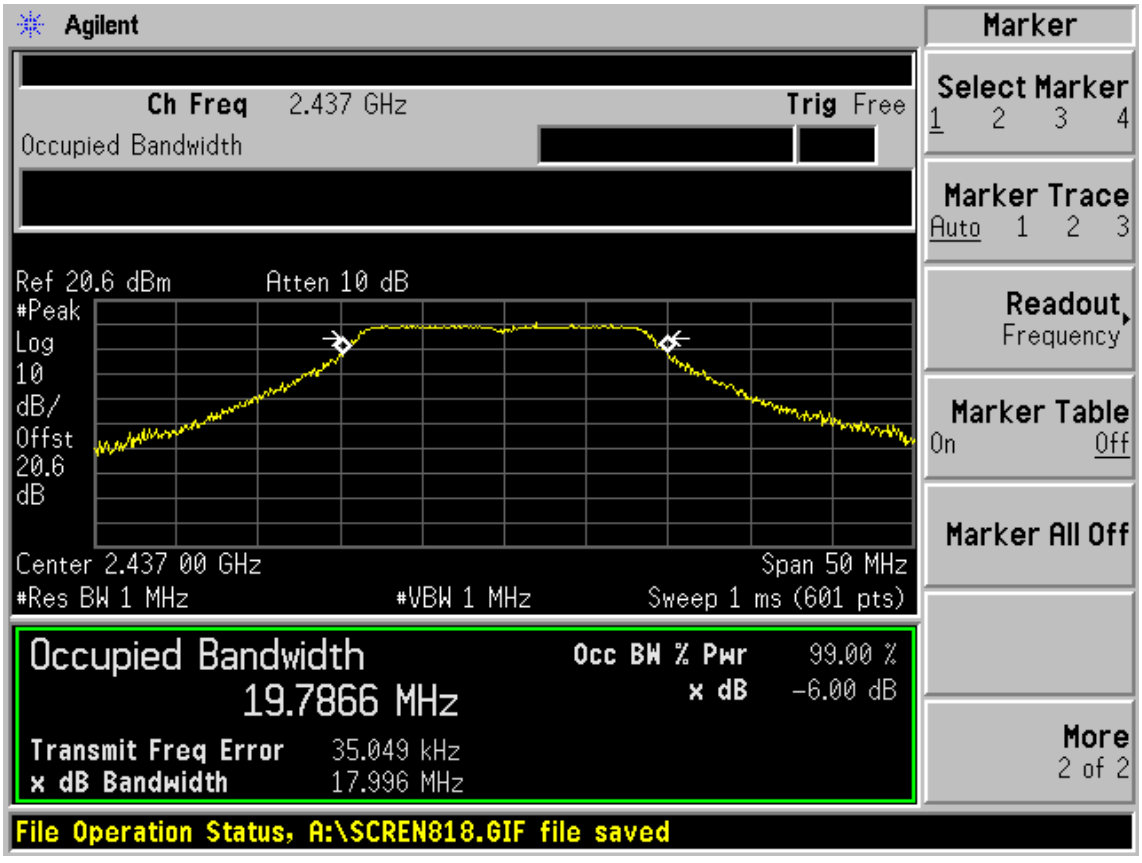


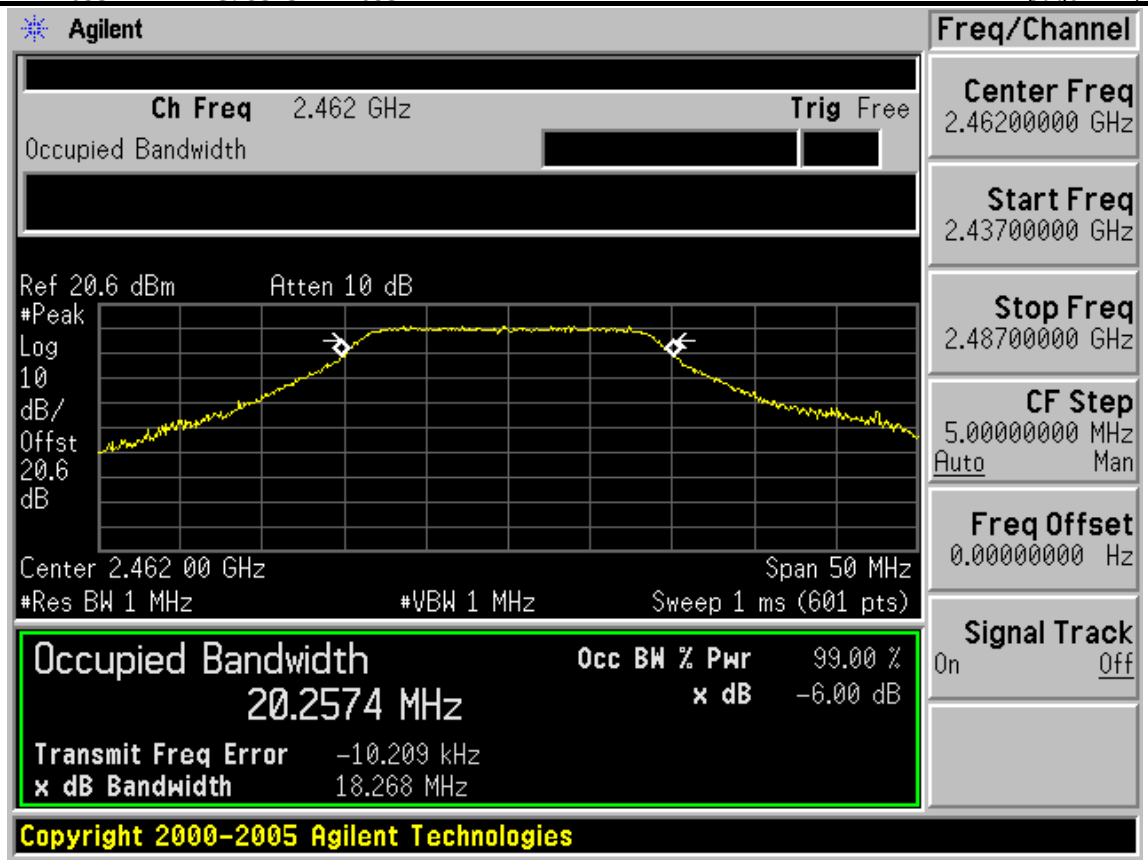

Agilent
Trace
Ch Freq 2.437 GHz
Trig Free
Occupied Bandwidth
Center 2.437000000 GHz
Ref 20.6 dBm
Atten 10 dB
#Peak
Log
10
dB/
Offst
20.6
dB
Center 2.437 00 GHz
Span 50 MHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 1 ms (601 pts)
Occupied Bandwidth
19.0667 MHz
Occ BW % Pwr 99.00 %
x dB -6.00 dB
Transmit Freq Error -58.342 kHz
x dB Bandwidth 17.179 MHz
Trace
1 2 3
Clear Write
Max Hold
Min Hold
View
Blank
More
1 of 2
File Operation Status, A:\SCREN815.GIF file saved


Agilent
Trace
Ch Freq 2.462 GHz
Trig Free
Occupied Bandwidth
Center 2.462000000 GHz
Ref 20.6 dBm
Atten 10 dB
#Peak
Log
10
dB/
Offst
20.6
dB
Center 2.462 00 GHz
Span 50 MHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 1 ms (601 pts)
Occupied Bandwidth
18.7831 MHz
Occ BW % Pwr 99.00 %
x dB -6.00 dB
Transmit Freq Error -45.779 kHz
x dB Bandwidth 16.759 MHz
Trace
1 2 3
Clear Write
Max Hold
Min Hold
View
Blank
More
1 of 2
File Operation Status, A:\SCREN816.GIF file saved

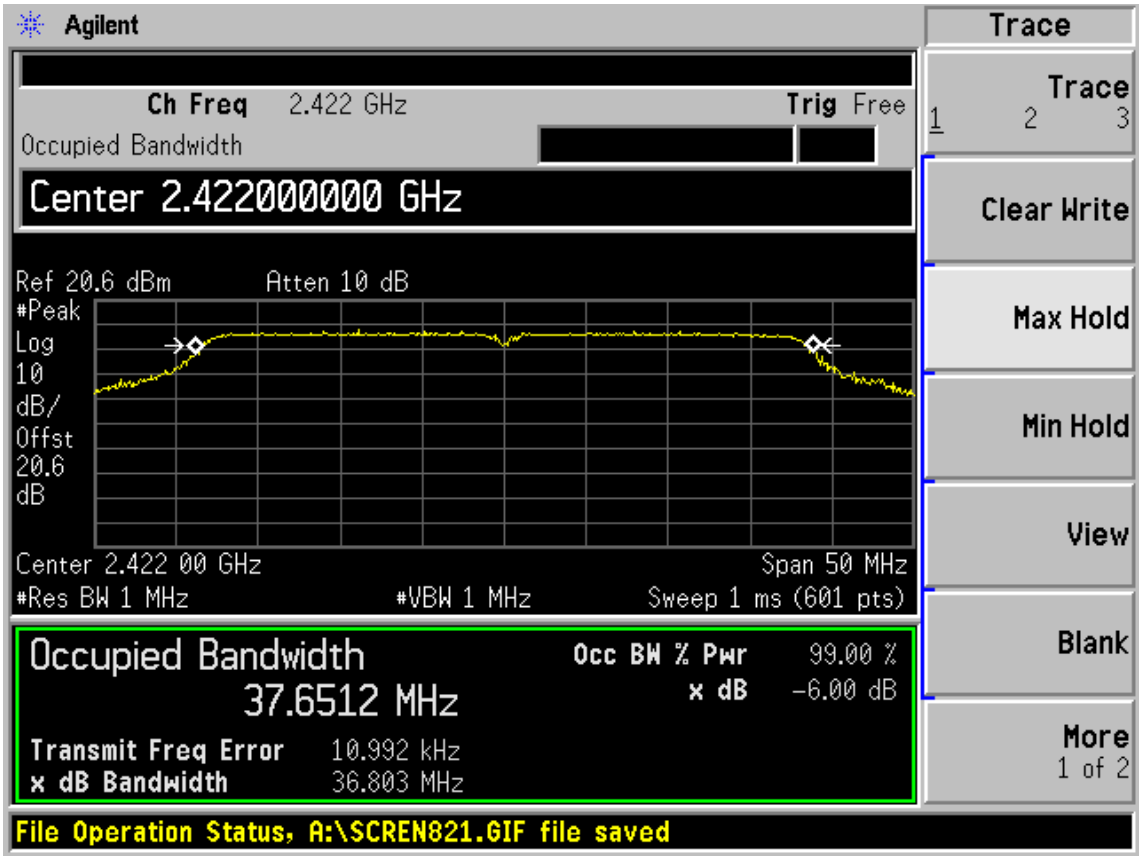
Test Mode: IEEE 802.11n HT20 TX

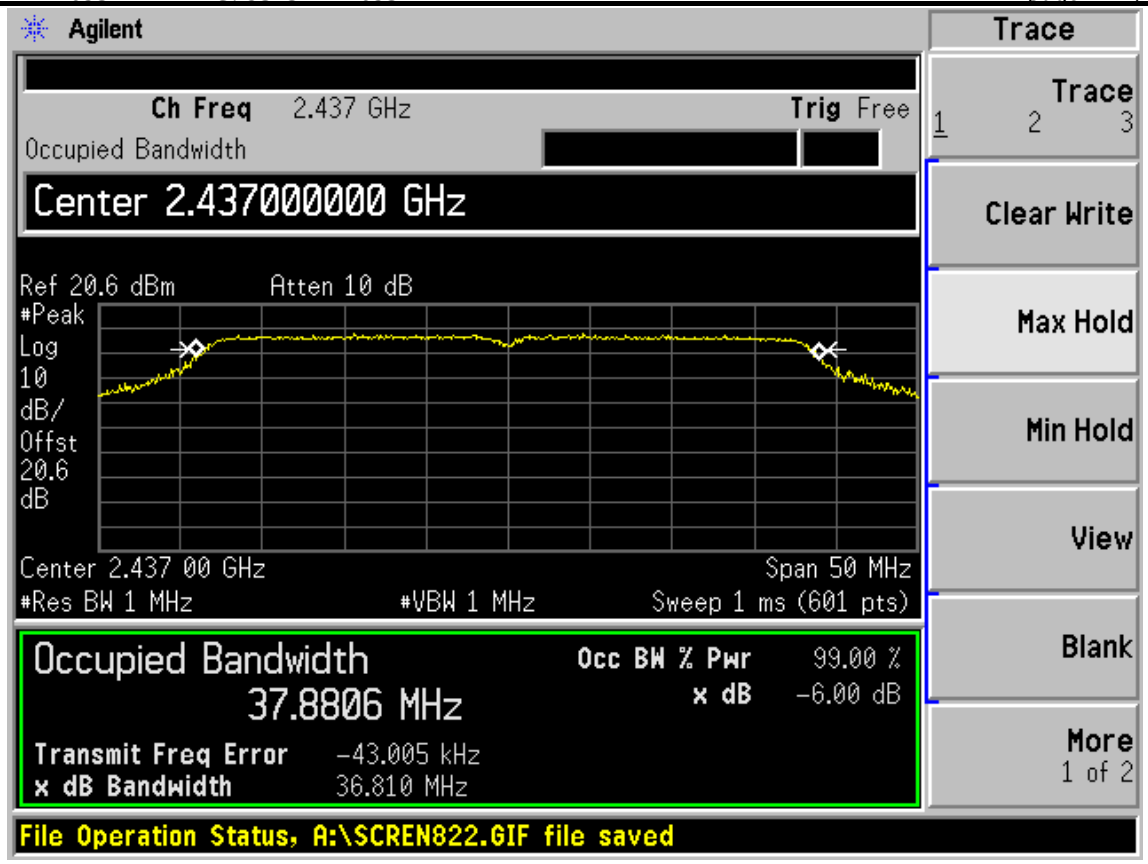


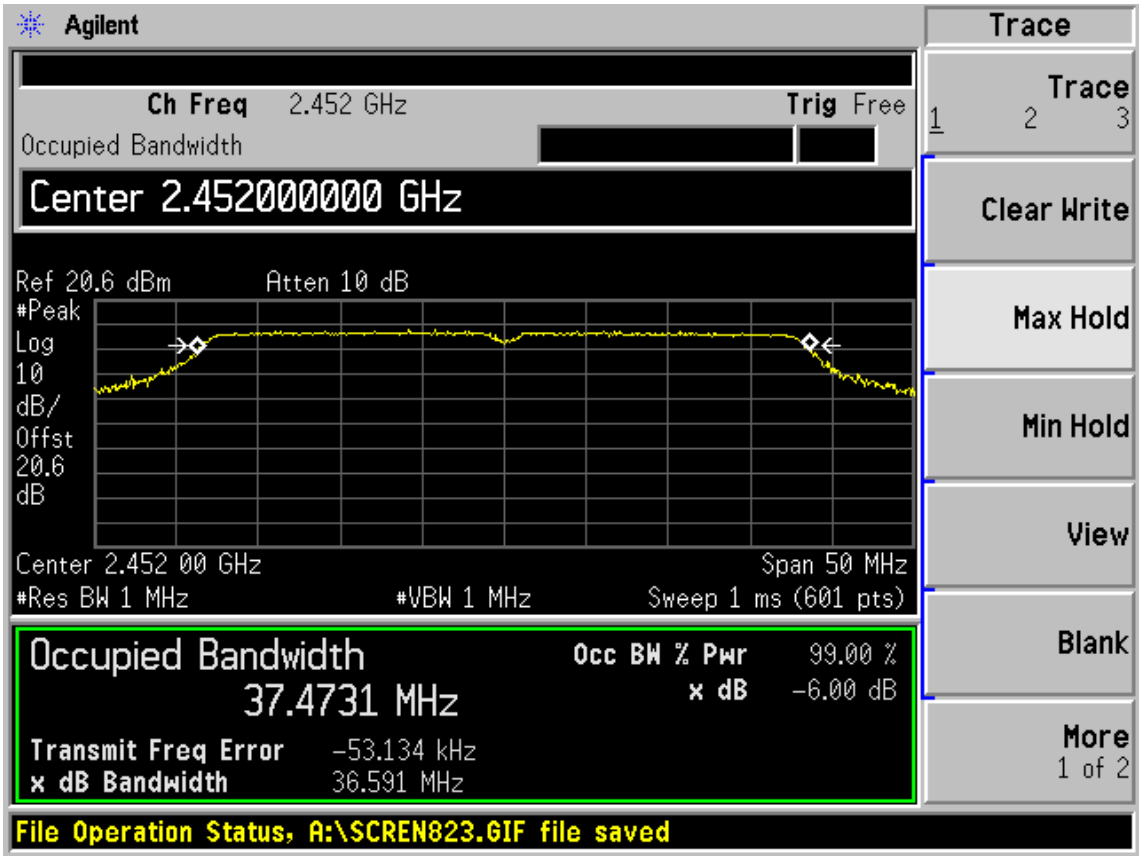




Test Mode: IEEE 802.11n HT40 TX




Agilent
Trace
Ch Freq 2.437 GHz
Trig Free
Occupied Bandwidth
Center 2.437000000 GHz
Ref 20.6 dBm
Atten 10 dB
#Peak
Log
10
dB/
Offst
20.6
dB
Center 2.437 00 GHz
Span 50 MHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 1 ms (601 pts)
Occupied Bandwidth
37.8806 MHz
Occ BW % Pwr 99.00 %
x dB -6.00 dB
Transmit Freq Error -43.005 kHz
x dB Bandwidth 36.810 MHz
Trace
1 2 3
Clear Write
Max Hold
Min Hold
View
Blank
More
1 of 2
File Operation Status, A:\SCREN822.GIF file saved


Agilent
Trace
Ch Freq 2.452 GHz
Trig Free
Occupied Bandwidth
Center 2.452000000 GHz
Ref 20.6 dBm
Atten 10 dB
#Peak
Log
10
dB/
Offst
20.6
dB
Center 2.452 00 GHz
Span 50 MHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 1 ms (601 pts)
Occupied Bandwidth
37.4731 MHz
Occ BW % Pwr 99.00 %
x dB -6.00 dB
Transmit Freq Error -53.134 kHz
x dB Bandwidth 36.591 MHz
Trace
1 2 3
Clear Write
Max Hold
Min Hold
View
Blank
More
1 of 2
File Operation Status, A:\SCREN823.GIF file saved

8. OUTPUT POWER TEST

8.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Power meter	Anritsu	ML2487A	6K00002472	May.08,10	1Year
2.	Power sensor	Anritsu	MA2491A	0033005	May.08,10	1Year
3	Attenuator	Agilent	8491B	MY39262165	May.08,10	1 Year
4	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08,10	1Year

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

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

8.3.Test Procedure

1, Connected the EUT's antenna port to measure device by 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'

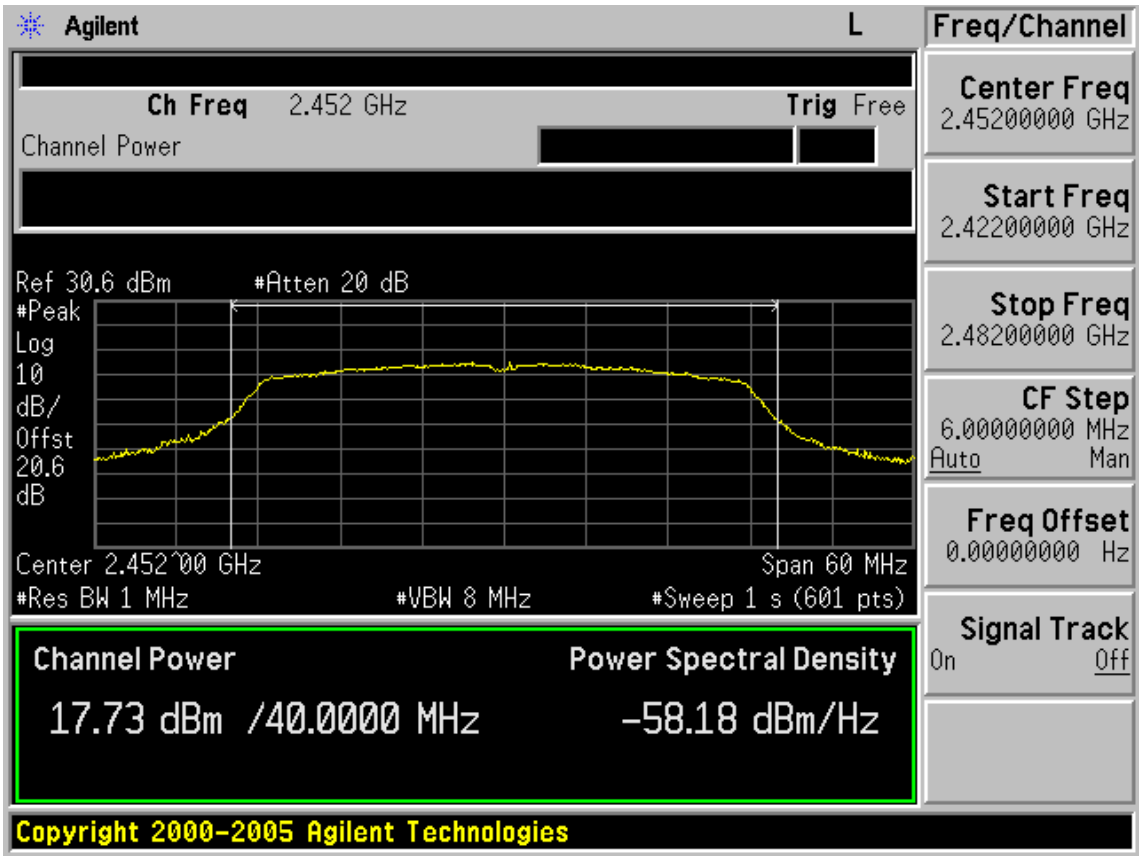
Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

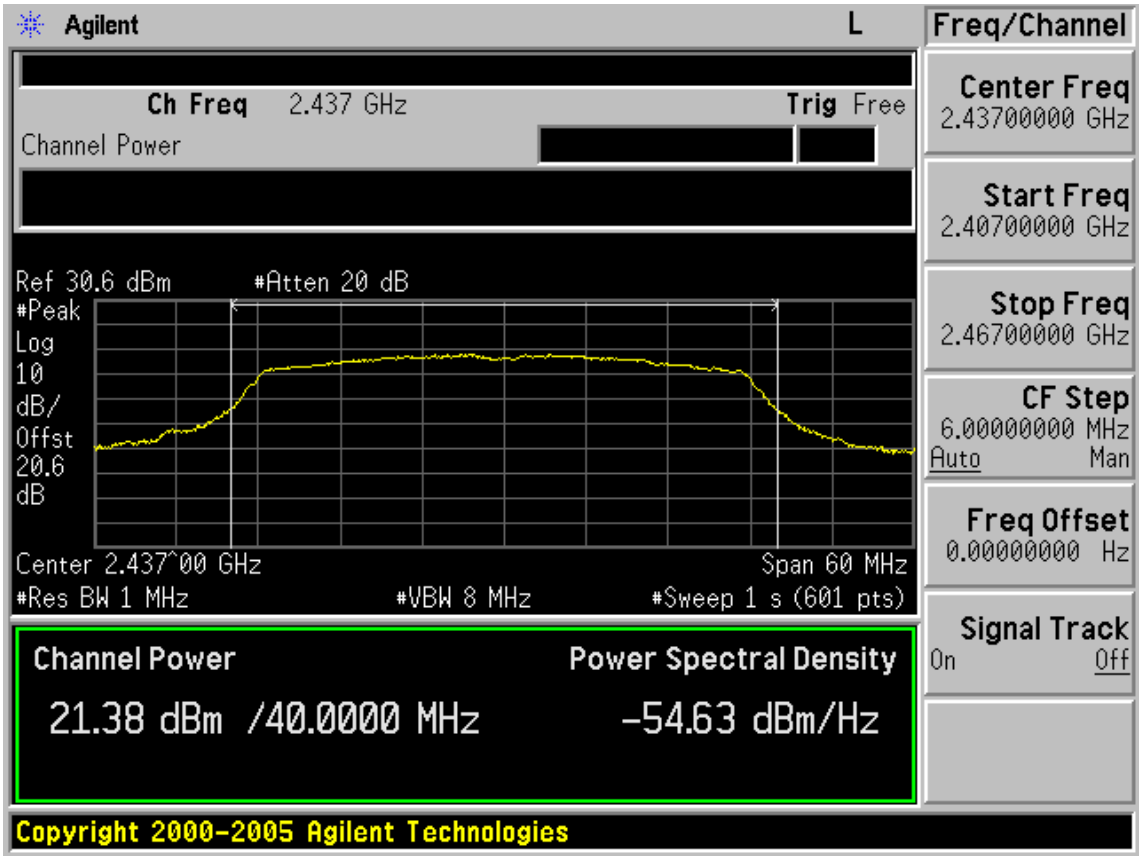
8.4.Test Results

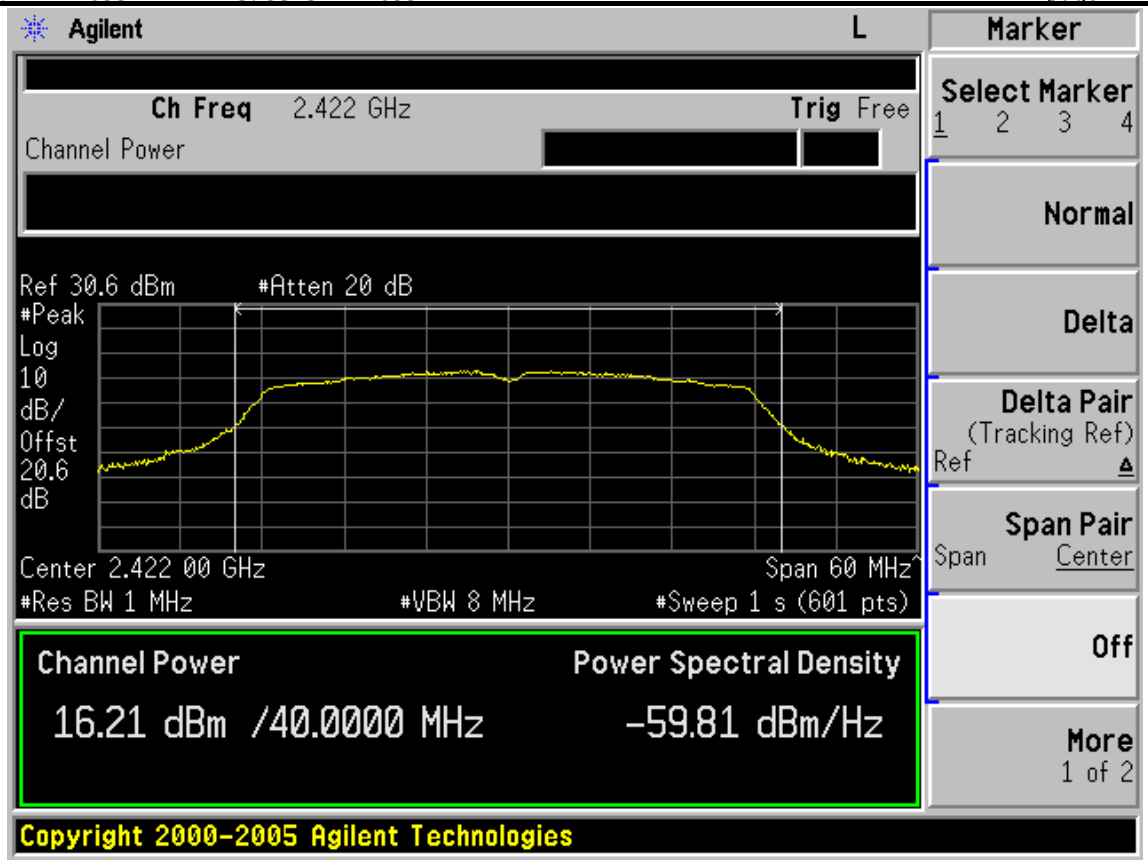
EUT: 150Mbps Wireless Lite N USB Adapter		
M/N: AK093		
Test date:2010-10-28	Pressure: 100.6 kpa	Humidity: 60 %
Tested by:Sunny-lu	Test site: RF Site	Temperature：25 ℃

Cable loss: 0.6dB		Attenuator loss: 20 dB	Antenna Gain: 2.12 dBi
Test Mode	CH	Peak output Power （dBm）	Limit (dBm)
11b	CH1	18.49	30
	CH6	18.86	30
	CH11	19.24	30
11g	CH1	23.62	30
	CH6	25.04	30
	CH11	24.78	30
11n HT20	CH1	23.80	30
	CH6	25.26	30
	CH11	24.49	30
11n HT40	CH1	16.21	30
	CH4	21.38	30
	CH7	17.73	30
Conclusion：PASS			

Test Mode: IEEE 802.11n HT40






Agilent
L
Marker
Ch Freq 2.422 GHz
Trig Free
Channel Power
Select Marker
1 2 3 4
Normal
Delta
Ref 30.6 dBm
#Atten 20 dB
#Peak
Log
10
dB/
Offst
20.6
dB
Delta Pair
(Tracking Ref)
Ref
Span Pair
Span Center
Center 2.422 00 GHz
Span 60 MHz
#Res BW 1 MHz
#VBW 8 MHz
#Sweep 1 s (601 pts)
Off
Channel Power
16.21 dBm /40.0000 MHz
Power Spectral Density
-59.81 dBm/Hz
More
1 of 2
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9. POWER SPECTRAL DENSITY TEST

9.1.Test Equipment

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

9.2.Limit

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

9.3.Test Procedure

1, Connected the EUT's antenna port to spectrum analyzer device by 20dB attenuator.

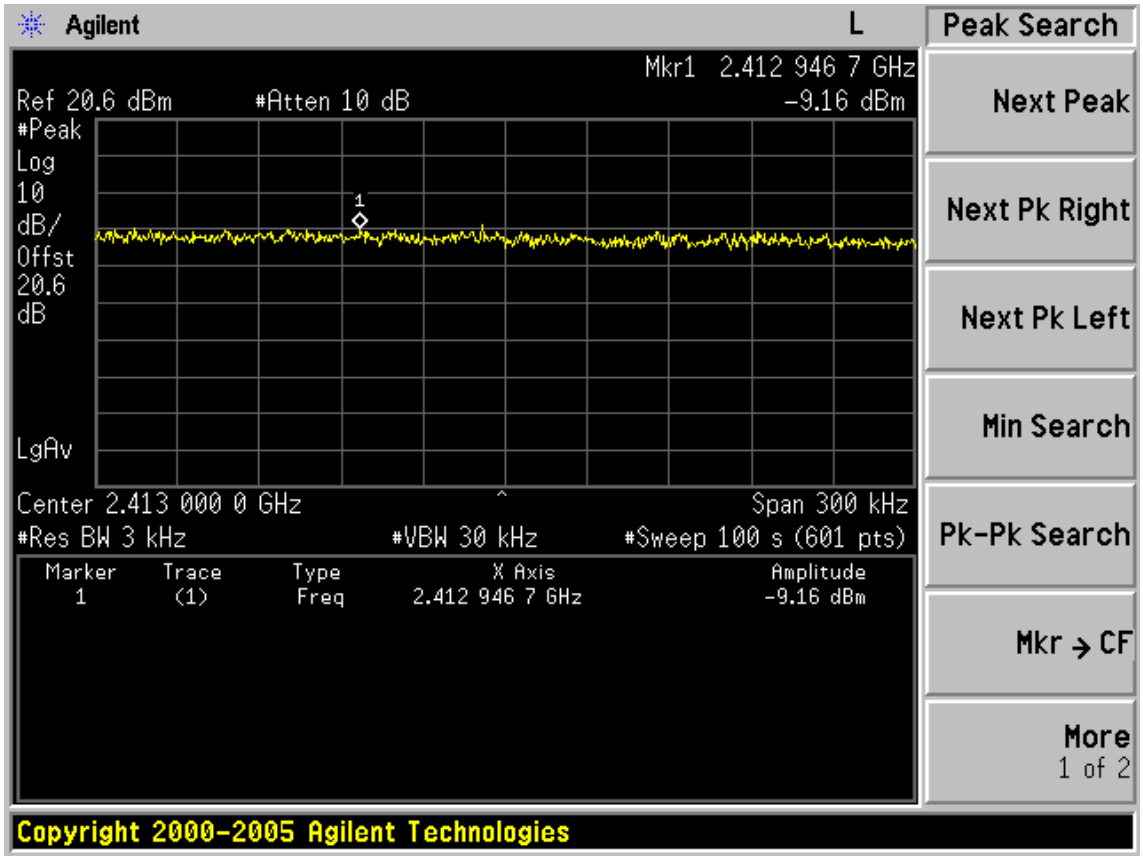
2, Follow the test procedure as described in ANSI C.10: 2009 Clause 6.11.2.3 to measure out each test modes and chain's power density with 3KHz.

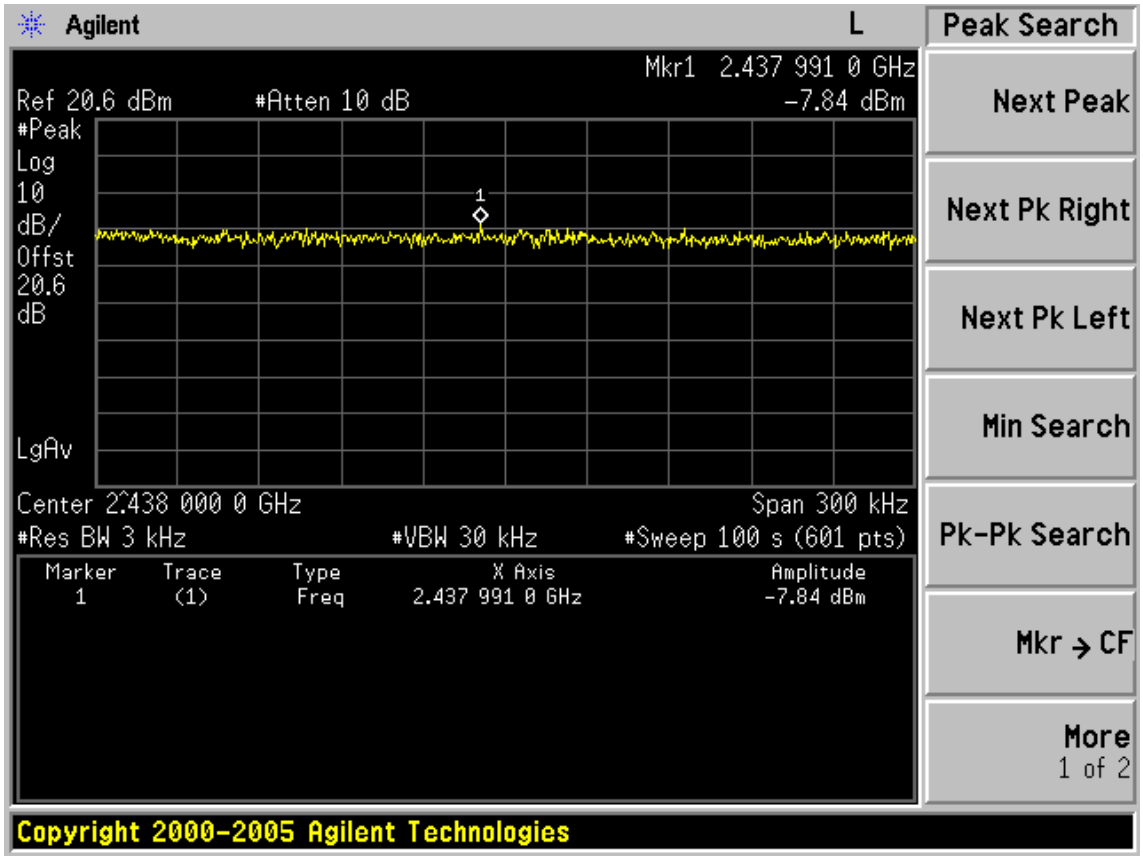
9.4.Test Results

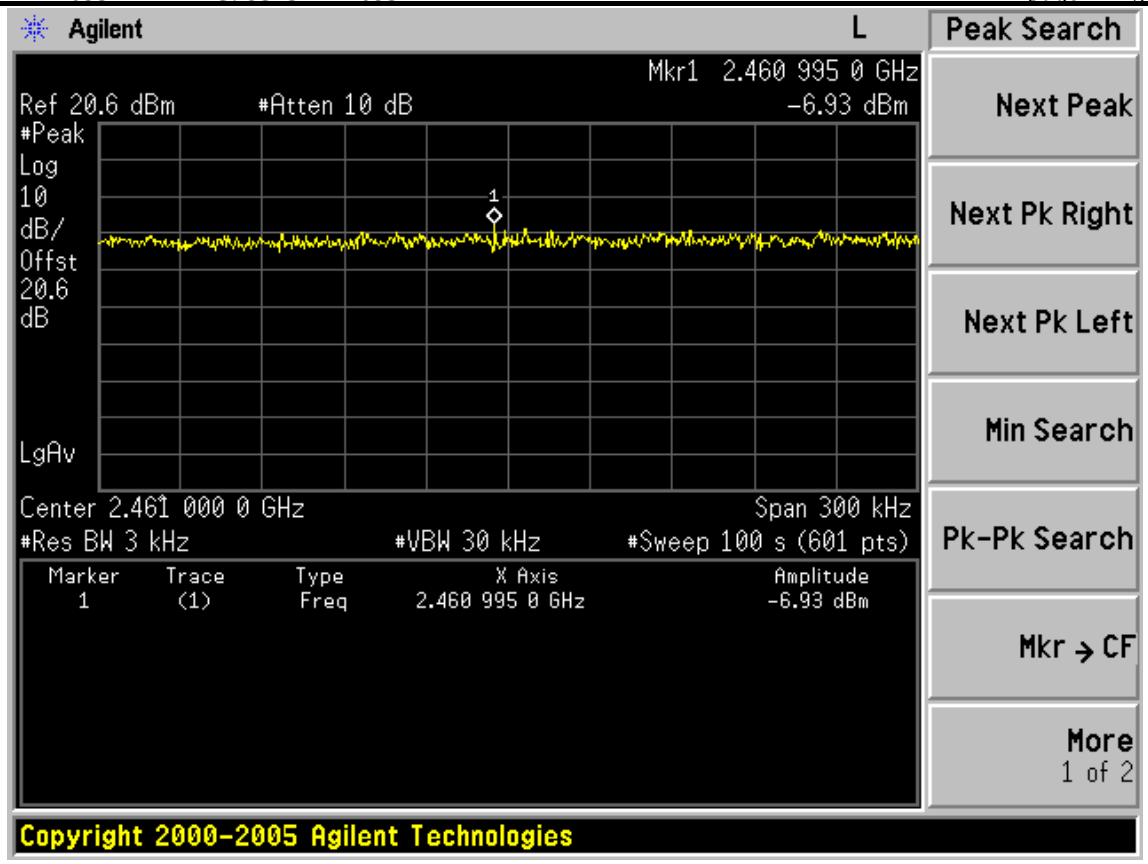
EUT: 150Mbps Wireless Lite N USB Adapter		
M/N: AK093		
Test date:2010-10-28	Pressure: 100.6 kpa	Humidity: 60 %
Tested by:Sunny-lu	Test site: RF Site	Temperature：25 ℃

Cable loss: 0.6 dB		Attenuator loss: 20 dB	Antenna Gain: 2.12 dBi
Test Mode	CH	Power density （dBm/3KHz）	Limit (dBm/3KHz)
11b	CH1	-9.16	8
	CH6	-7.84	8
	CH11	-6.93	8
11g	CH1	-11.11	8
	CH6	-10.15	8
	CH11	-9.90	8
11n HT20	CH1	-11.37	8
	CH6	-10.07	8
	CH11	-10.30	8
11n HT40	CH1	-21.8	8
	CH4	-17.4	8
	CH7	-21.2	8
Conclusion：PASS			

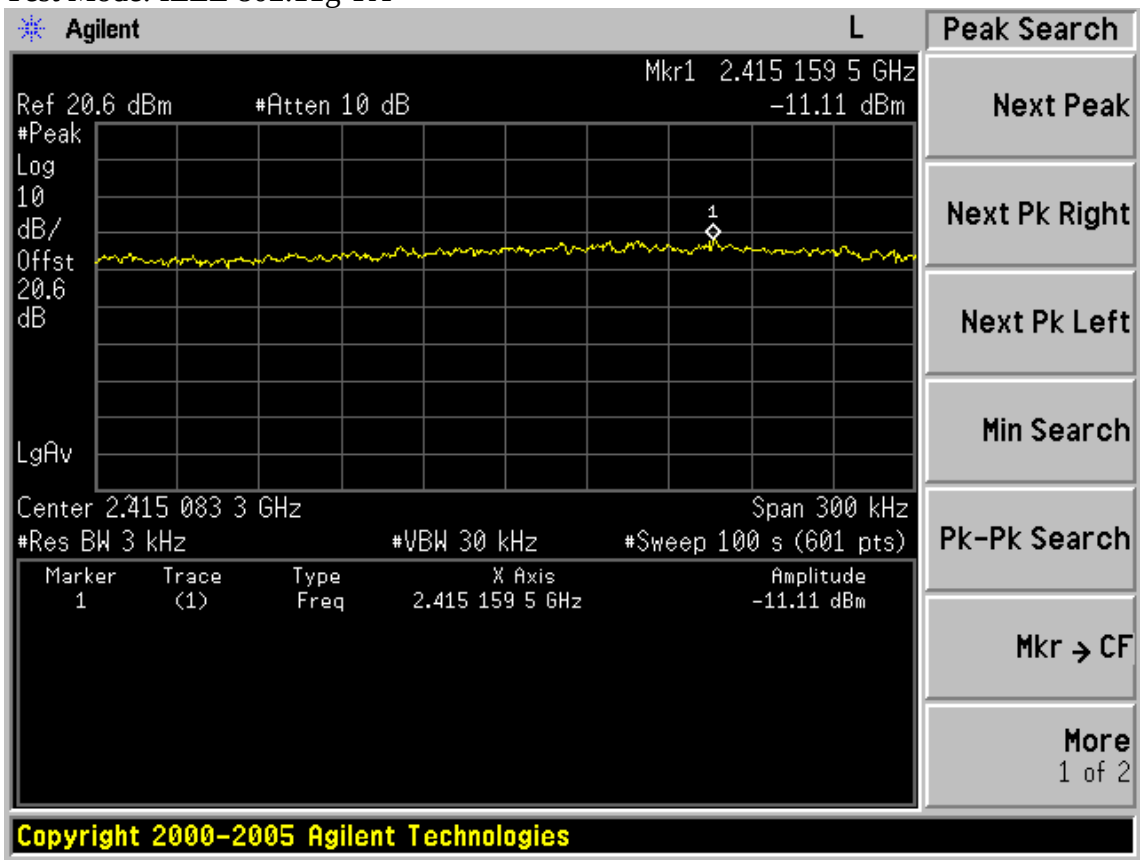
Test Mode: IEEE 802.11b TX

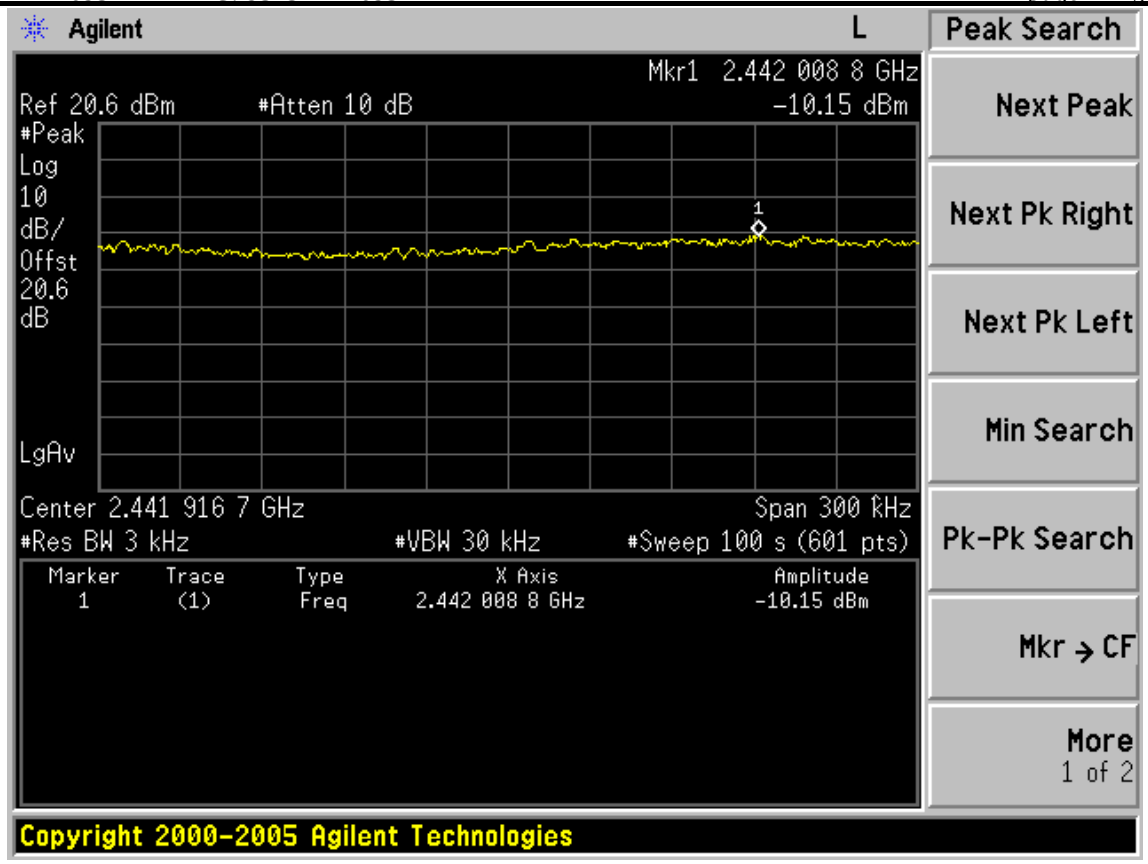






Test Mode: IEEE 802.11g TX




Agilent
L
Peak Search
Mkr1 2.442 008 8 GHz
Ref 20.6 dBm
#Atten 10 dB
-10.15 dBm
#Peak
Log
10
dB/
Offst
20.6
dB
LgAv
Next Peak
Next Pk Right
Next Pk Left
Min Search
Center 2.441 916 7 GHz
Span 300 kHz
#Res BW 3 kHz
#VBW 30 kHz
#Sweep 100 s (601 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.442 008 8 GHz -10.15 dBm
Mkr → CF
More
1 of 2
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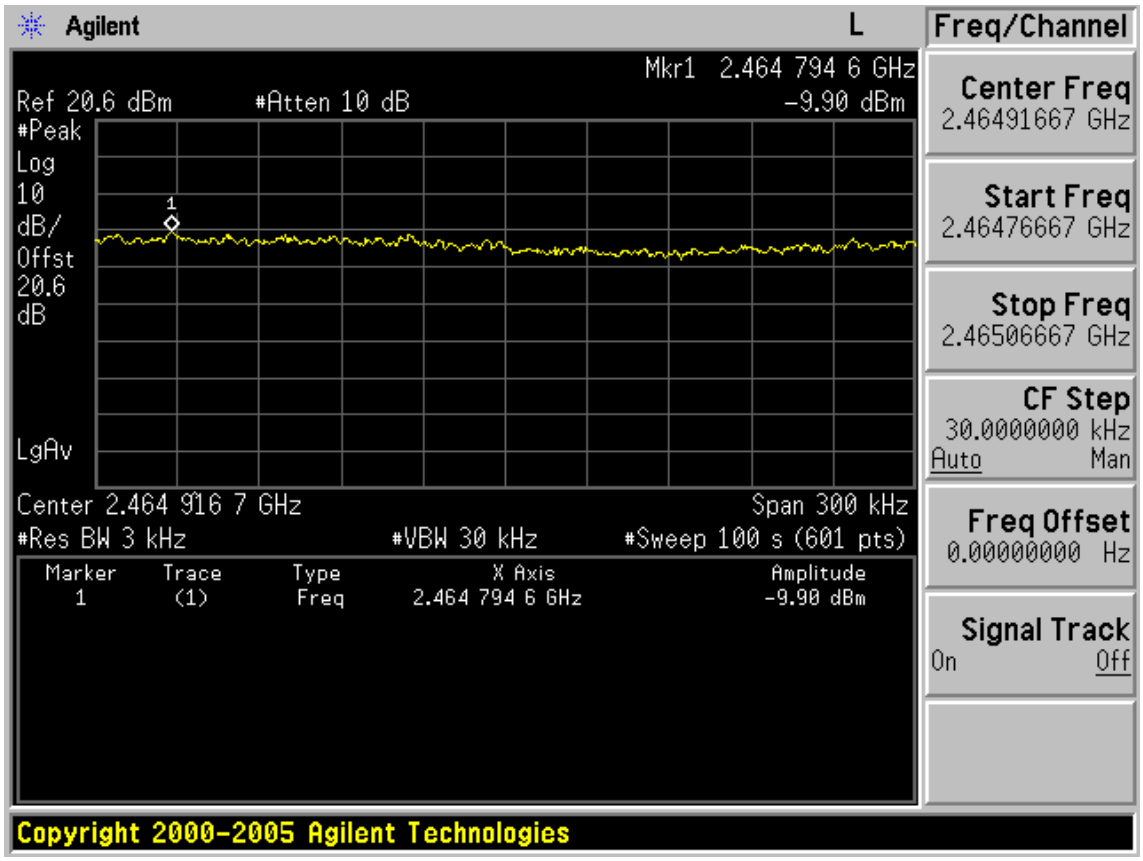
Agilent
L
Freq/Channel
Mkr1 2.464 794 6 GHz
Ref 20.6 dBm
#Atten 10 dB
-9.90 dBm
#Peak
Log
10
dB/
Offst
20.6
dB
LgAv
Center Freq
2.46491667 GHz
Start Freq
2.46476667 GHz
Stop Freq
2.46506667 GHz
CF Step
30.0000000 kHz
Auto Man
Center 2.464 916 7 GHz
Span 300 kHz
#Res BW 3 kHz
#VBW 30 kHz
#Sweep 100 s (601 pts)
Freq Offset
0.00000000 Hz
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.464 794 6 GHz -9.90 dBm
Signal Track
On Off
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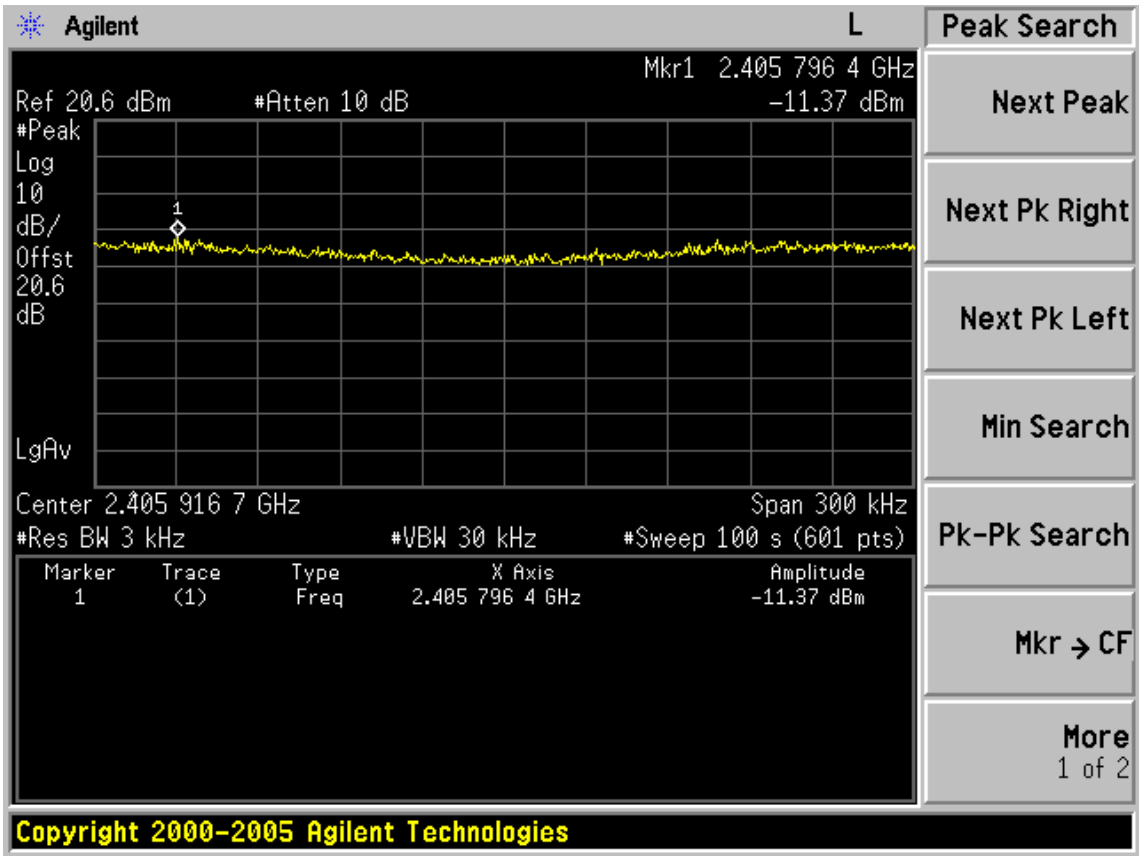
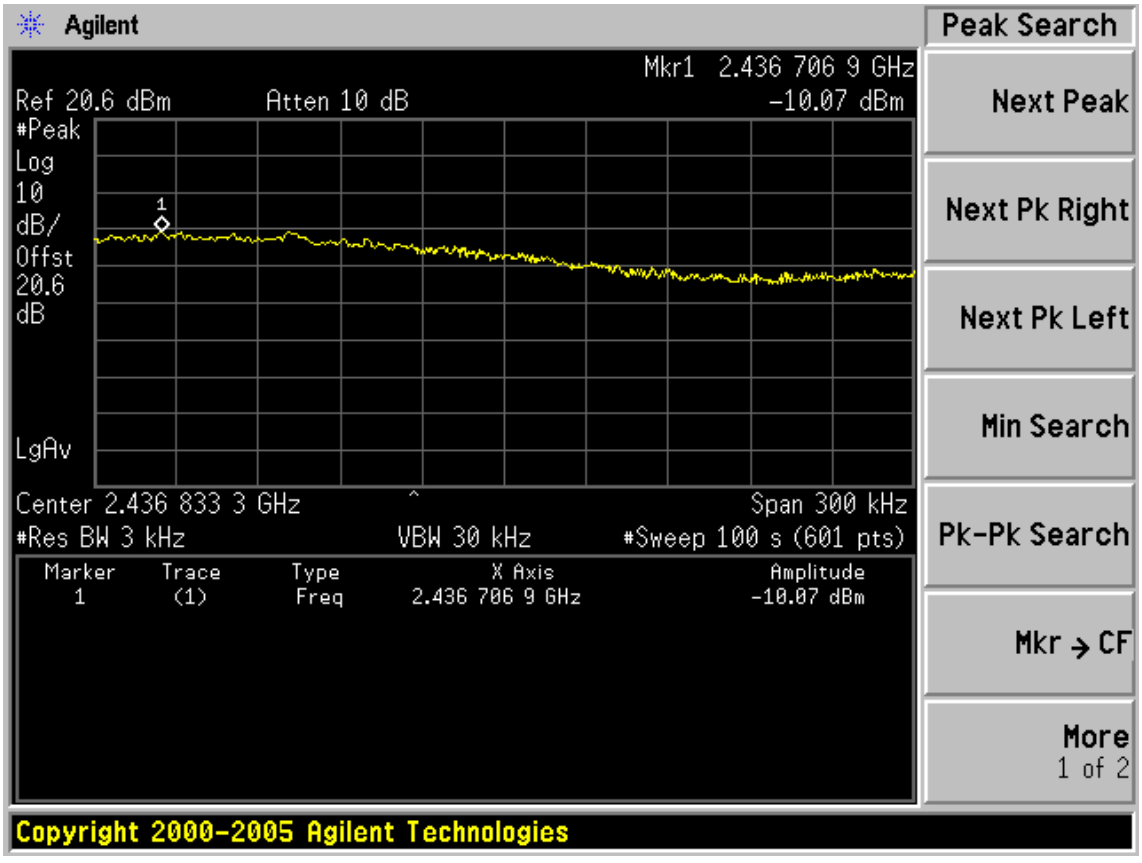
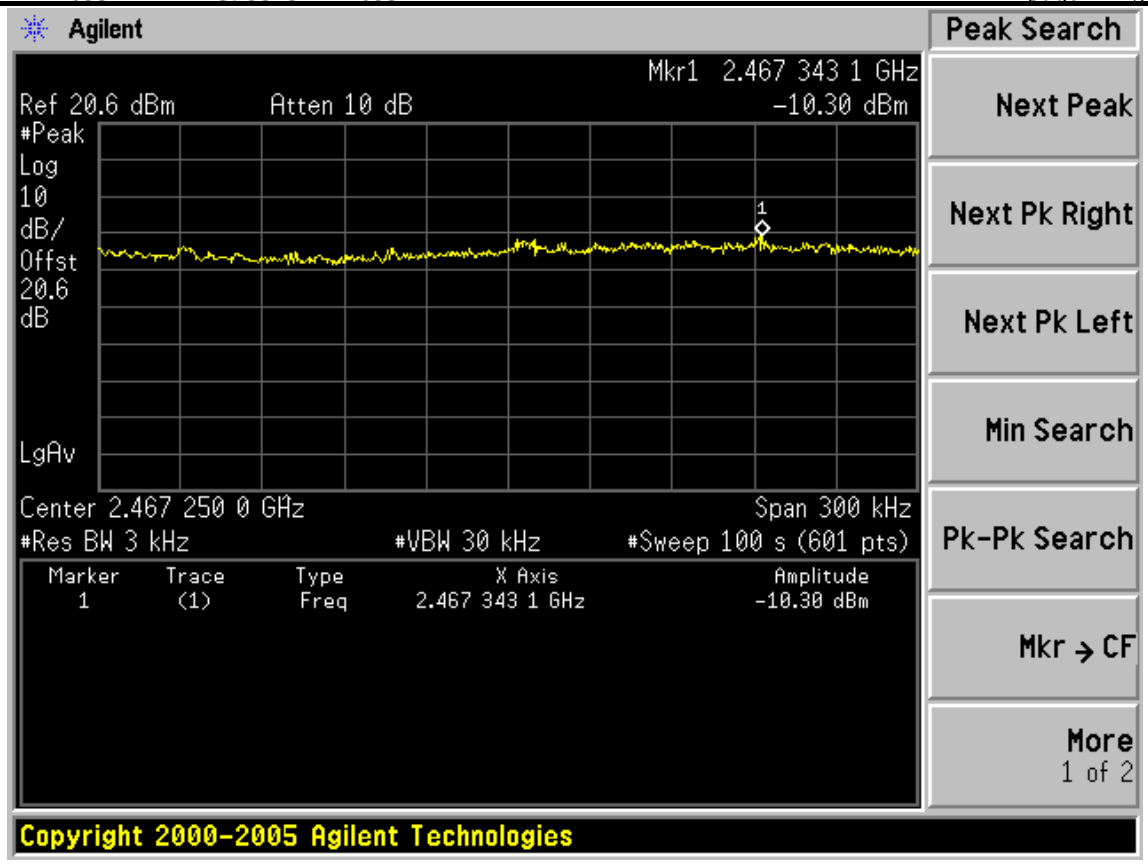
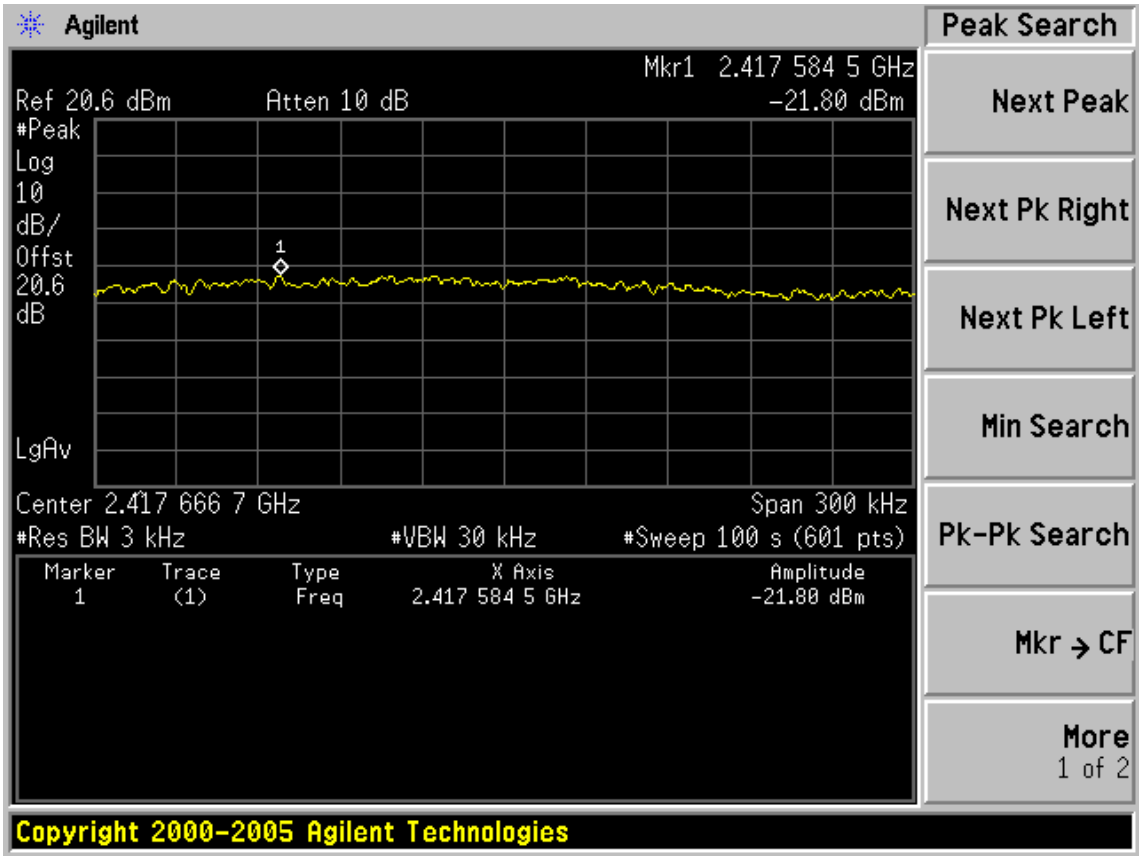
Test Mode: IEEE 802.11nHT20 TX

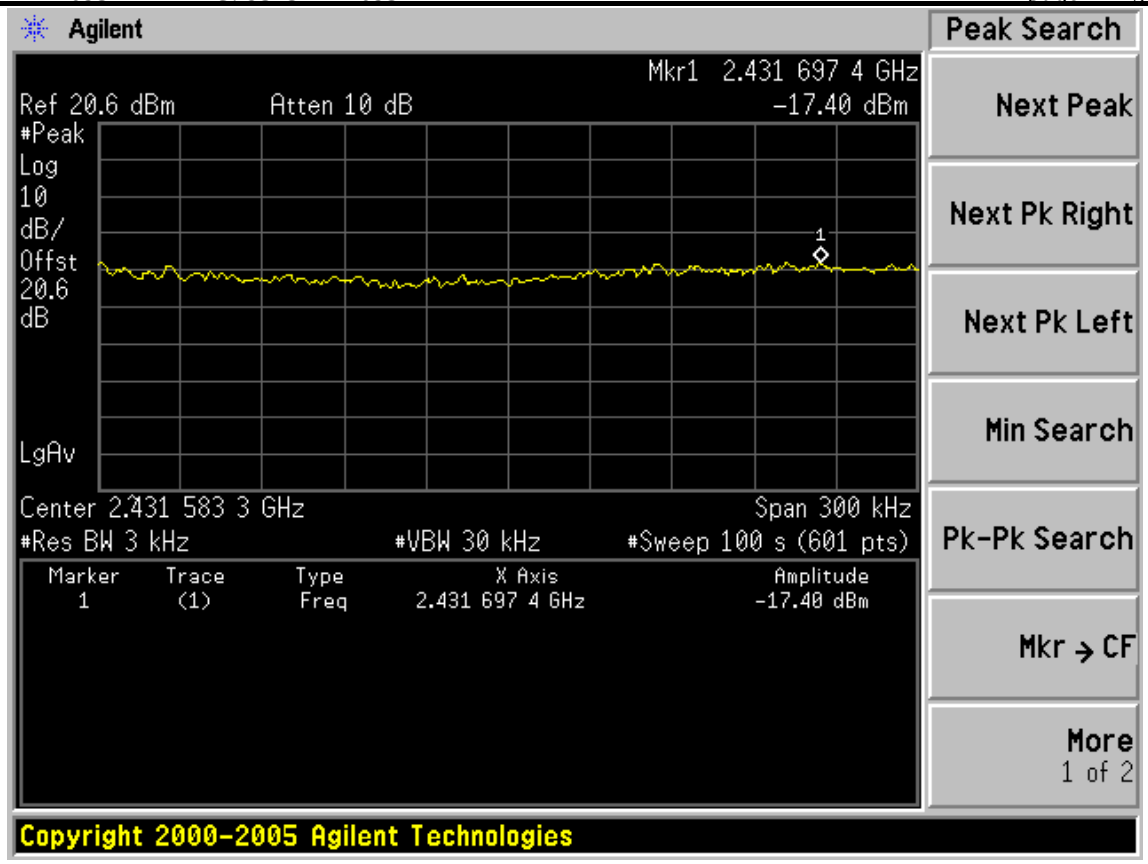






Test Mode: IEEE 802.11nHT40 TX




Agilent
Peak Search
Mkr1 2.431 697 4 GHz
Ref 20.6 dBm
Atten 10 dB
-17.40 dBm
#Peak
Log
10
dB/
Offst
20.6
dB
LgAv
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
Center 2.431 583 3 GHz
Span 300 kHz
#Res BW 3 kHz
#VBW 30 kHz
#Sweep 100 s (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.431 697 4 GHz -17.40 dBm
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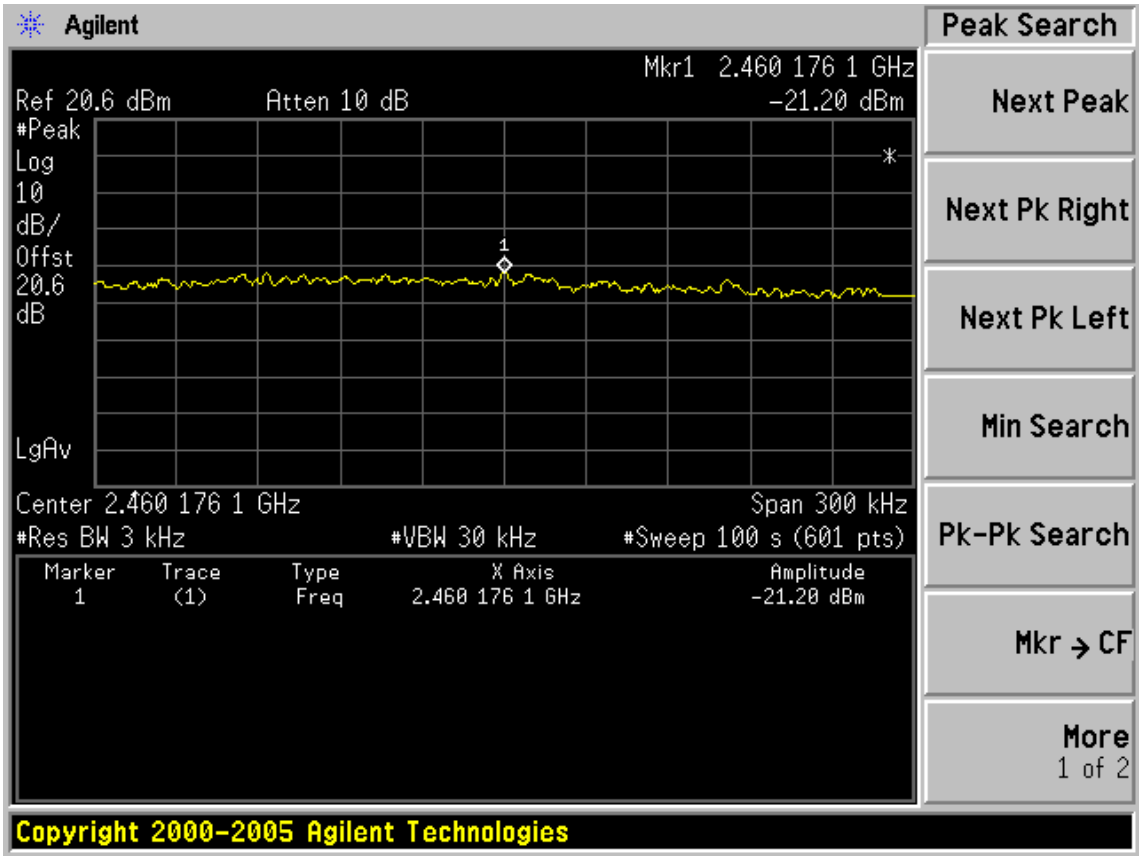
Agilent
Peak Search
Mkr1 2.460 176 1 GHz
Ref 20.6 dBm
Atten 10 dB
-21.20 dBm
#Peak
Log
10
dB/
Offst
20.6
dB
LgAv
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
Center 2.460 176 1 GHz
Span 300 kHz
#Res BW 3 kHz
#VBW 30 kHz
#Sweep 100 s (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.460 176 1 GHz -21.20 dBm
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10. ANTENNA REQUIREMENT

10.1. STANDARD APPLICABLE

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

10.2. ANTENNA CONNECTED CONSTRUCTION

The antennas used for this product is integrated PCB 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 2.12dBi.

11.DEVIATION TO TEST SPECIFICATIONS

[NONE]