HCT CO., LTD.
Product Compliance Division
TEL : +82 31 639 8518 FAX : +82 31 639 8525

CERTIFICATE OF COMPLIANCE

FCC Part 15.247 Certification

Applicant Name:
AXESSTEL INC.

Address:
6815 Flanders Drive Ste.210,
San Diego, CA 92121

Date of Testing:
August 25, 2008

Test Site/Location:
HCT.CO., LTD., San 136-1 Ami-ri, Bubal-eup, Icheon-si, Kyungki-do, Korea

Test Report No.: HCT-R08-091

HCT FRN: 0005866421

FCC ID : PH7MV430A

APPLICANT : AXESSTEL INC.

FCC Rule Part(s):	Part 15 subpart C 15.247
Application Type:	Certification
EUT Type:	PCS Wireless Gateway with WLAN
Model(s):	MV430A
Tx Frequency:	2412-2462 MHz(DSSS/OFDM)
Rx Frequency:	2412-2462 MHz(DSSS/OFDM)
Max. RF Output Power:	Wi-Fi 802.11b(23.40 dBm) / Wi-Fi 802.11g (19.92dBm)

Engineering Statement:

The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them.

HCT.CO., LTD. Certifies that no party to this application has been denied FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998,21 U.S. C.853(a)

Youn Seok Jung
Report prepared by
: Youn Seok Jung
Test engineer of RF Part

Sang Jun Lee
Approved by
: Sang Jun Lee
Manager of RF Part

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1. GENERAL INFORMATION

Applicant:	AXESSTEL INC.
	6815 Flanders Drive Ste.210,
	San Diego, CA
FCC ID:	PH7MV430A
EUT:	PCS Wireless Gateway with WLAN
Date of Test:	August 25, 2008
Contact:	Tel: 858- 625-2100 Fax: 858- 625- 2110
	E-Mail: dskim@axesstel.com

2. EUT DESCRIPTION

Product	PCS Wireless Gateway with WLAN
Model Name	MV430A
Power Supply	DC 7.4 V
Battery type	Standard
Frequency Range	TX: 2412 ~ 2462 MHz RX: 2412 ~ 2462 MHz
Max. RF Output Power	Wi-Fi 802.11b(23.40 dBm) / Wi-Fi 802.11g (19.92dBm)
Modulation Type	DSSS/CCK(802.11b), OFDM(802.11g)
Antenna Specification	Manufacturer: Hankook Antenna Co.,LTD Antenna type: sleeve dipole antenna Antenna Max gain: 1.5 dBi

3. TEST METHODOLOGY

The measurement procedure described in the American National Standard for Methods of Measurement of Radio-Noise Emission from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz(ANSI C63.4-2003)

3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

3.2 EUT EXERCISE

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

3.3 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4. (Version :2003) Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3 m away from the receiving antenna, which varied from 1 m to 4 m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements in Section 13.1.4.1 of ANSI C63.4. (Version: 2003)

3.4 DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Channel low, mid and high with highest data rate (worst case) is chosen for full testing.

4. INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipments, which is traceable to recognized national standards.

5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

The open area test site and conducted measurement facility used to collect the radiated data are located at the 254-1,Maekok-Ri, Hobup-Myun, Ichon-Si, Kyoungki-Do, 467-701, KOREA. The site is constructed in conformance with the requirements of ANSI C63.4. (Version :2003) and CISPR Publication 22. Detailed description of test facility was submitted to the Commission and accepted dated July 6, 2006(Registration Number: 90661)

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of Linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements. Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers. Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, “Radio Interference Measuring Apparatus and Measurement Methods.”

6. ANTENNA REQUIREMENTS

According to FCC 47 CFR §15.203:

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section."

* The antennas of this E.U.T are permanently attached.

*The E.U.T Complies with the requirement of §15.203

7. TEST RESULT

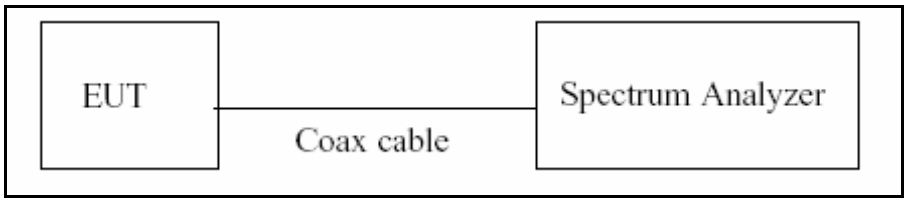
7.1 6dB Bandwidth Measurement (802.11b/g)

Test Requirments and limit, §15.247(d)

The bandwidth at 6dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the receive antenna while the EUT is operating in transmission mode at the appropriate frequencies.

The minimum permissible 6dB bandwidth is 500 kHz.

▣ TEST CONFIGURATION



▣ TEST PROCEDURE

The transmitter output is connected to the Spectrum Analyzer.

The Spectrum Analyzer is set to

RBW: 100 KHz

VBW: 100 KHz

SPAN: 40 MHz

▣ TEST RESULTS

Conducted 6dB Bandwidth Measurements for 802.11b

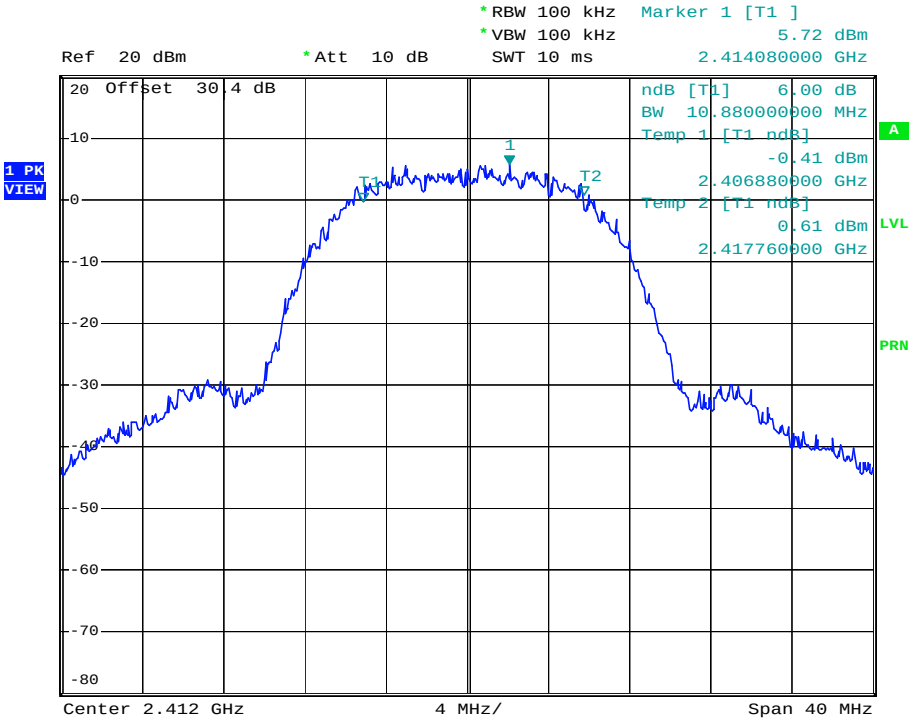
802.11b Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
2412	1	10.88	0.500	Pass
2437	6	11.68	0.500	Pass
2462	11	10.96	0.500	Pass

Conducted 6dB Bandwidth Measurements for 802.11g

802.11g Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
2412	1	16.64	0.500	Pass
2437	6	16.64	0.500	Pass
2462	11	16.64	0.500	Pass

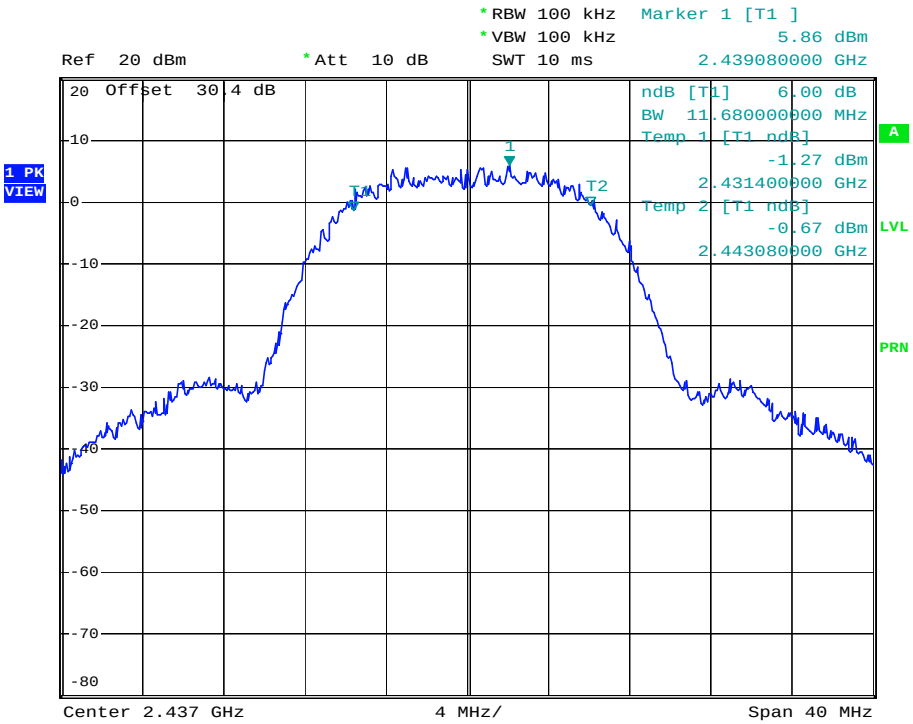
▣ RESULT PLOTS

6dB Bandwidth plot (802.11b-CH 1)



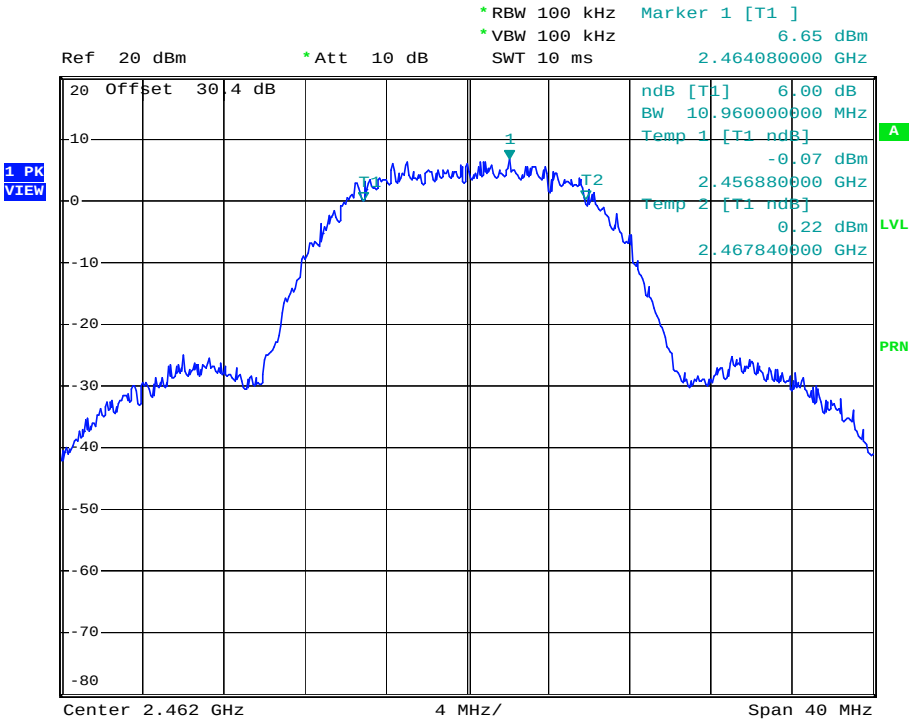
Date: 20.JUL.2008 09:41:34

6dB Bandwidth plot (802.11b-CH 6)



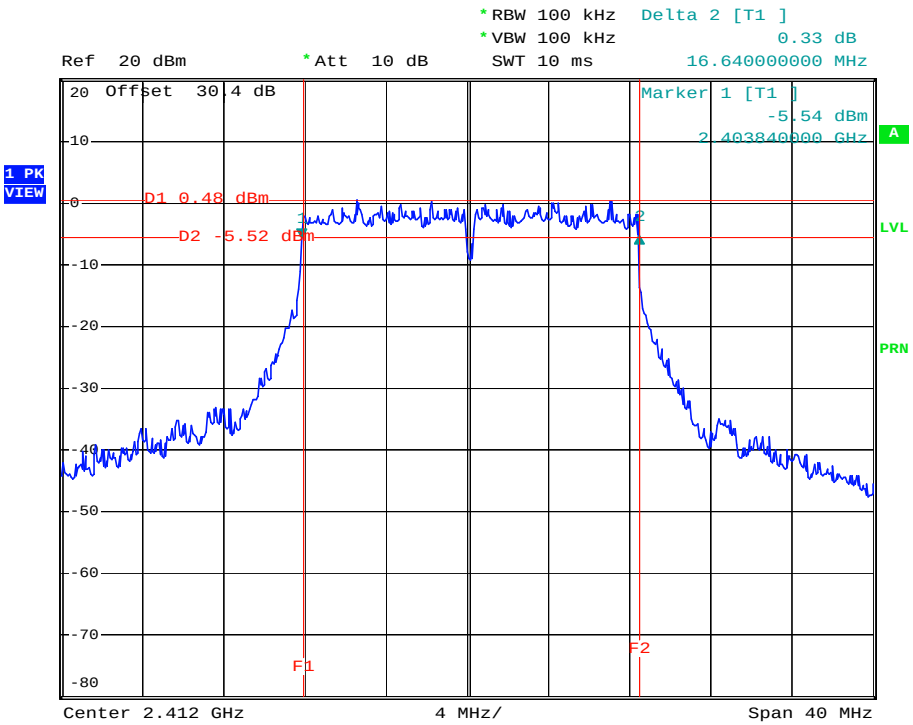
Date: 20.JUL.2008 09:40:51

6dB Bandwidth plot (802.11b-CH 11)



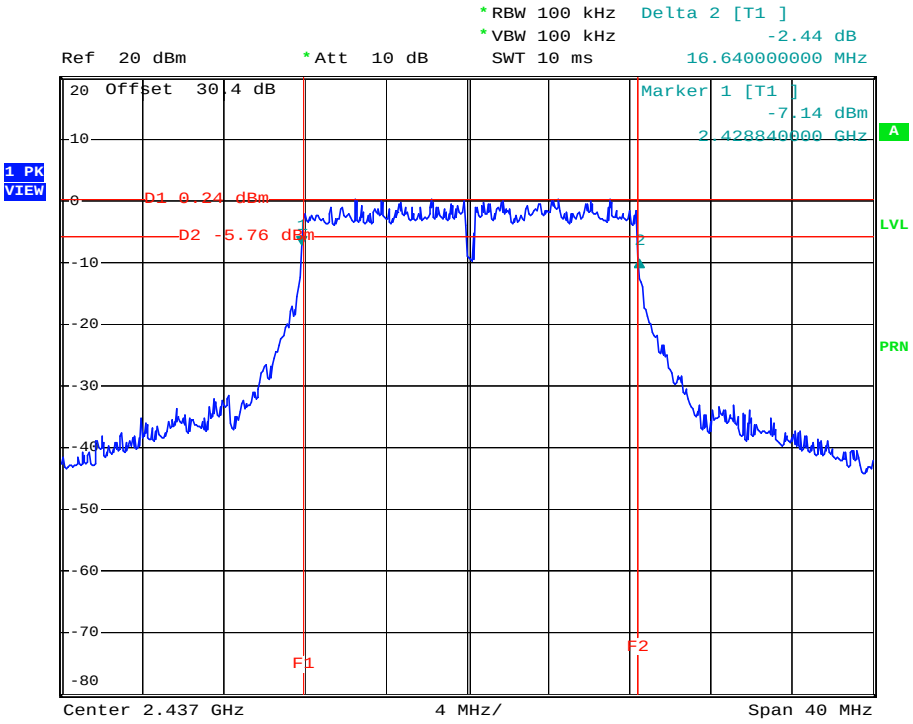
Date: 20.JUL.2008 09:39:56

6dB Bandwidth plot (802.11g-CH 1)



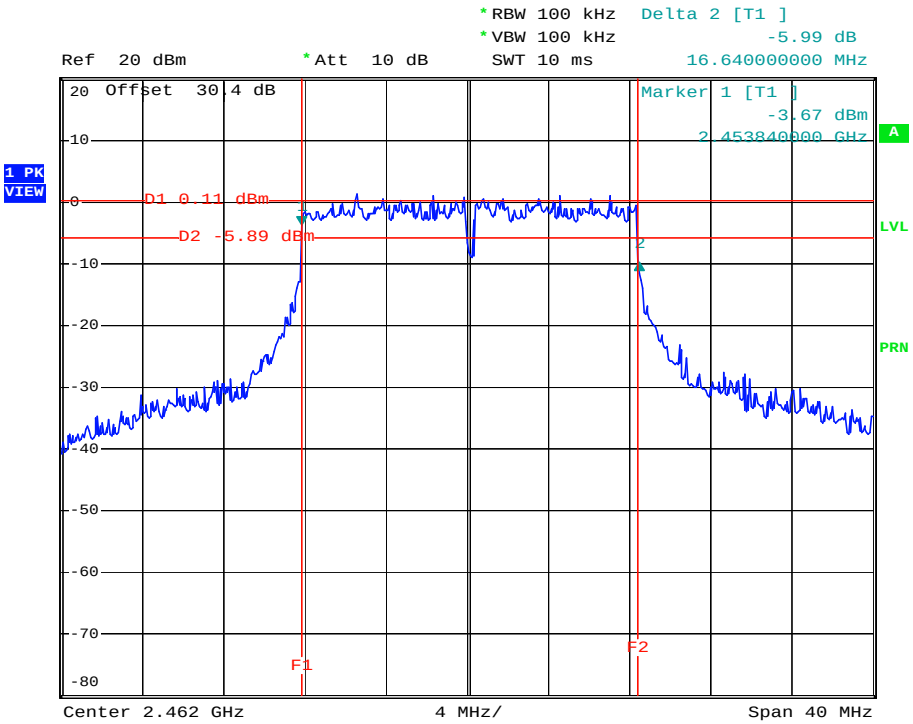
Date: 20.JUL.2008 09:43:28

6dB Bandwidth plot (802.11g-CH 6)



Date: 20.JUL.2008 09:45:58

6dB Bandwidth plot (802.11g-CH 11)



Date: 20.JUL.2008 09:47:32

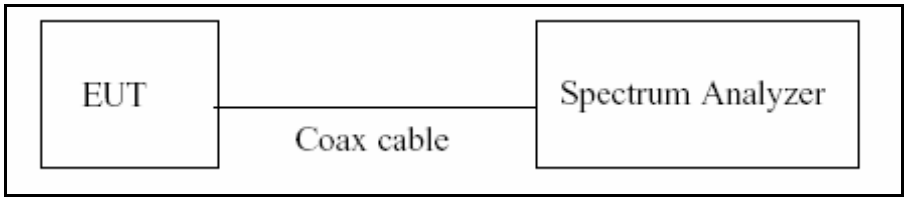
7. 2 Output Power Measurement (802.11b/g)

Test Requirments and limit, §15.247(d)

A transmitter antenna terminal of EUT is connected to the input of a Spectrum Analyzer. Measurement is made while the EUT is operating in transmission mode at the appropriate frequencies.

The maximum permissible conducted output power is 1 Watt.

▣ TEST CONFIGURATION



Note: Tests were performed all possible data rates and worst cases were recorded.

▣ TEST RESULTS

Conducted Output Power Measurements

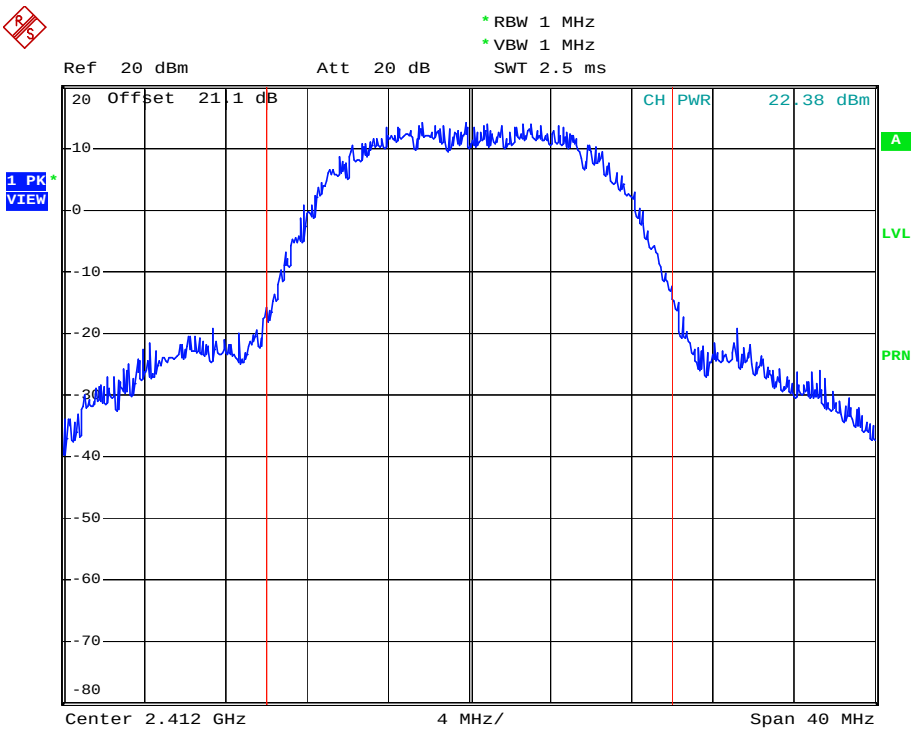
802.11b Mode		Rate	Measured	Limit (dBm)
Frequency[MHz]	Channel No.	(Mbps)	Power (dBm)	
2412	1	11 Mbps	22.38	30
2437	6	11 Mbps	22.31	30
2462	11	11 Mbps	23.40	30

Conducted Output Power Measurements

802.11g Mode		Rate	Measured	Limit
Frequency[MHz]	Channel No.	(Mbps)	Power(dBm)	(dBm)
2412	1	54 Mbps	19.26	30
2437	6	54 Mbps	19.14	30
2462	11	54 Mbps	19.92	30

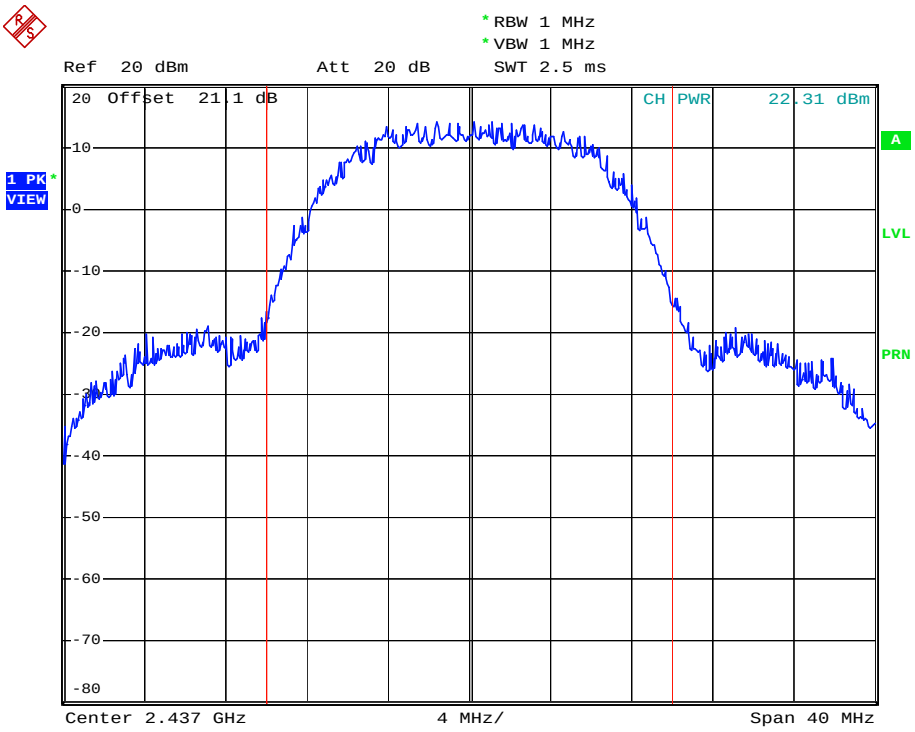
▣ RESULT PLOTS

Conducted Output Power (802.11b-CH 1)



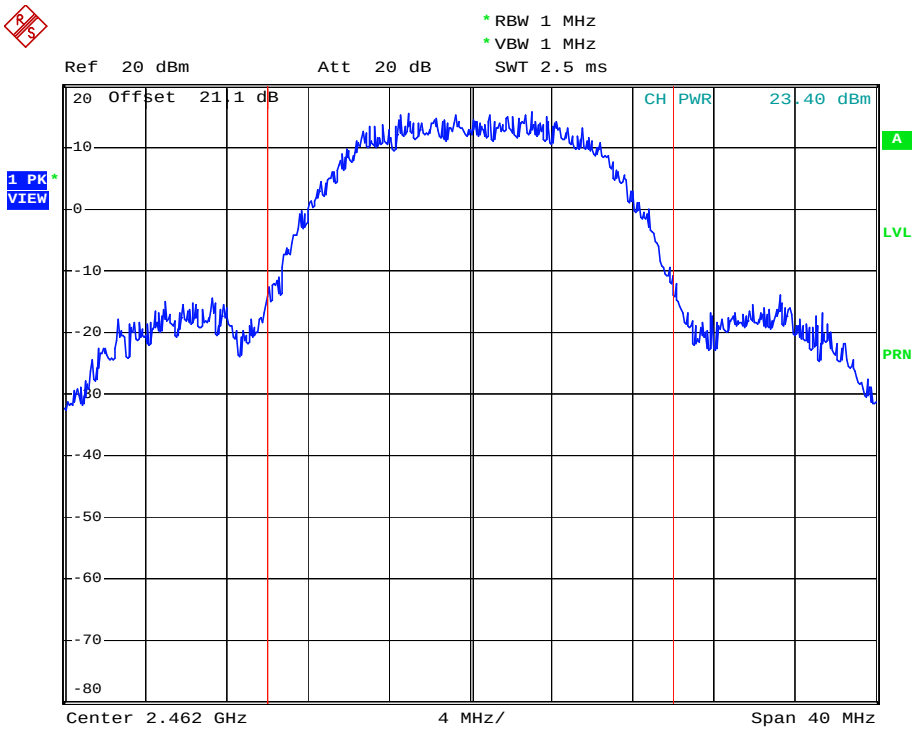
Date: 25.AUG.2008 09:18:50

Conducted Output Power (802.11b-CH 6)



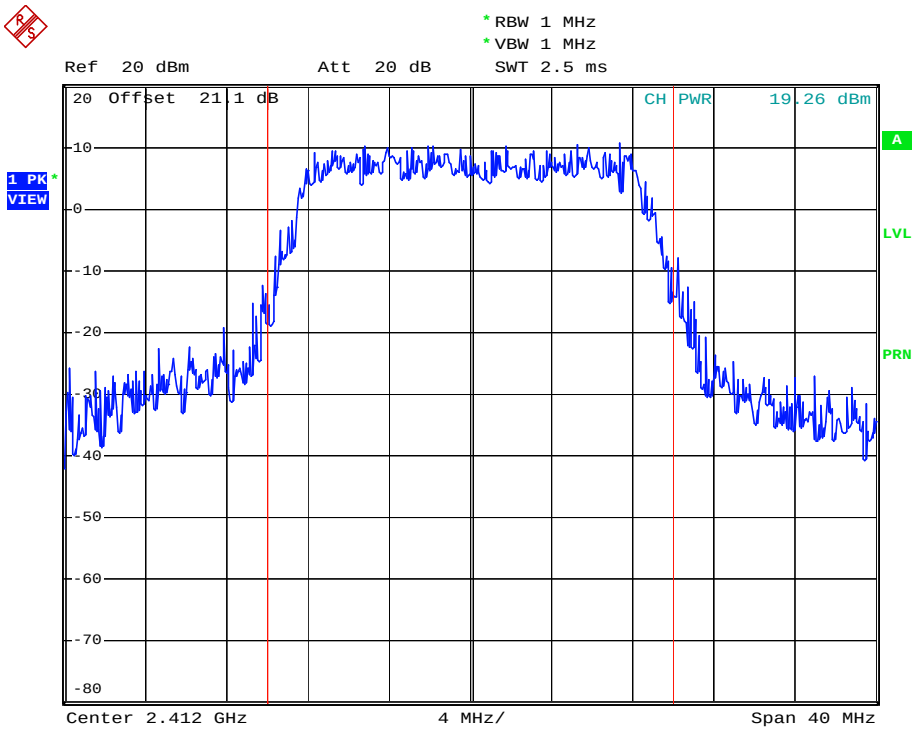
Date: 25.AUG.2008 09:16:58

Conducted Output Power (802.11b-CH 11)



Date: 25.AUG.2008 09:19:40

Conducted Output Power (802.11g-CH 1)



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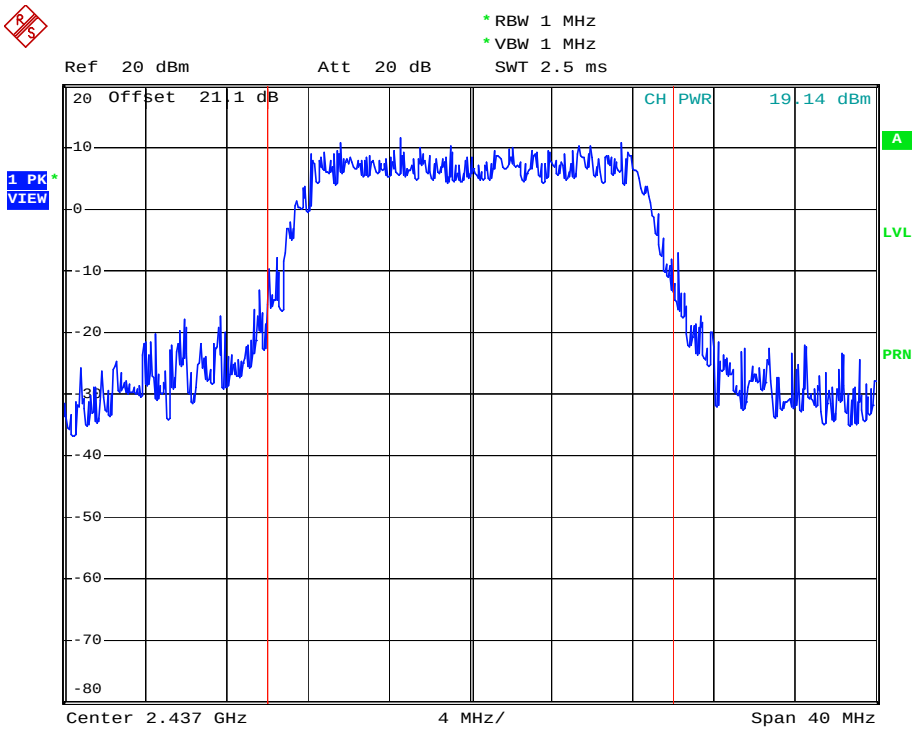
Conducted Output Power (802.11g-CH 6)



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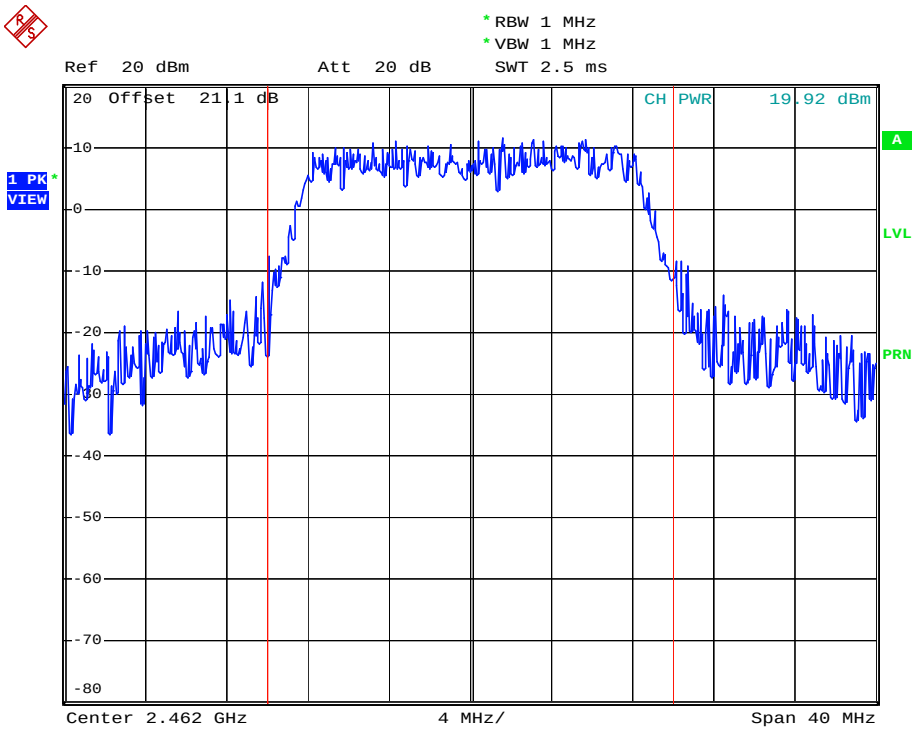
Conducted Output Power (802.11g-CH 11)



Date: 25.AUG.2008 09:31:56

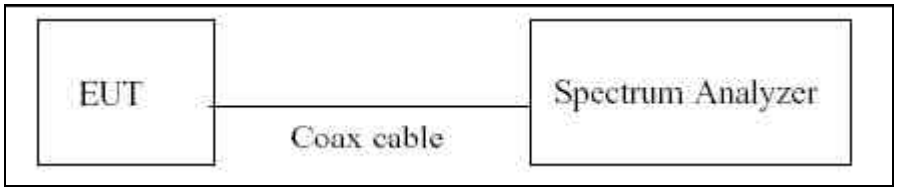
7.3 Power Spectral Density (802.11b/g)

Test Requirments and limit, §15.247(d)

The peak power density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating in transmission mode at the appropriate frequencies.

Minimum Standard – The transmitter power density average over 1-second interval shall not be greater than 8dBm in any 3kHz BW.

▣ TEST CONFIGURATION



▣ TEST PROCEDURE

The spectrum analyzer is set to :

1. Span = 300 KHz
2. RBW = 3 KHz (7dB/div)
3. VBW = 3 KHz
4. Sweep = 100 sec

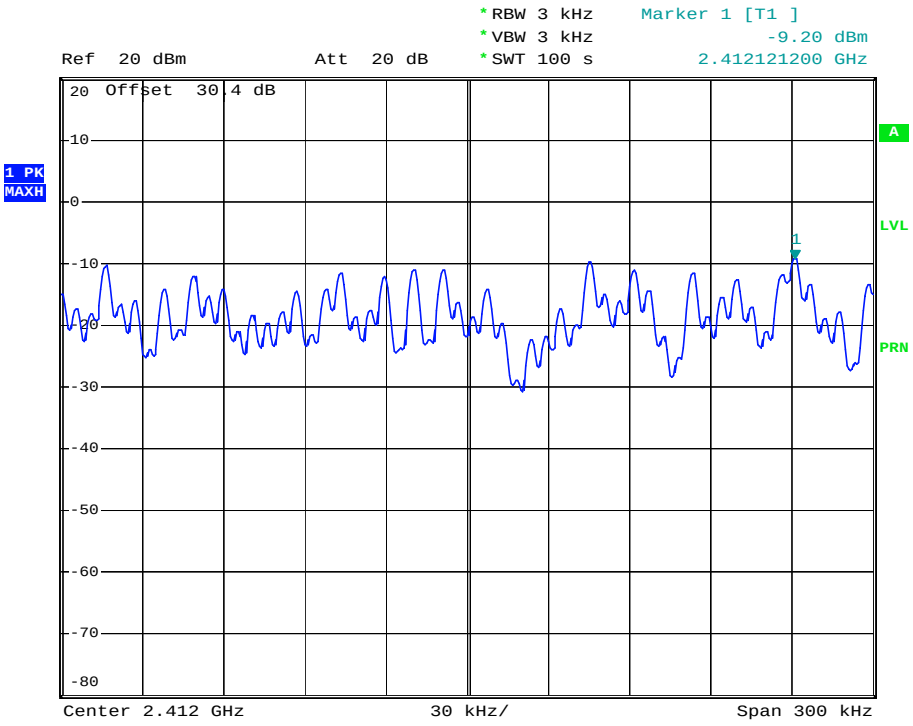
▣ TEST RESULTS

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result	
			Power Density (dBm)	Pass/Fail
2412	1	802.11b	-9.20	Pass
2437	6		-9.16	Pass
2462	11		-14.81	Pass
2412	1	802.11g	-15.09	Pass
2437	6		-15.06	Pass
2462	11		-14.73	Pass

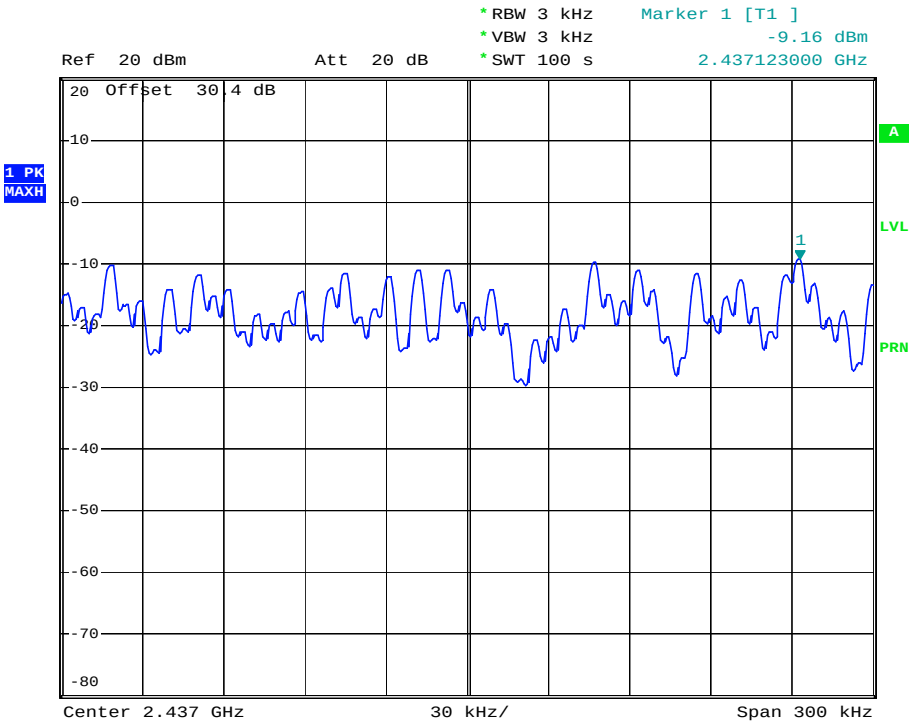
▣ RESULT PLOTS

Power Spectral Density (802.11b-CH 1)



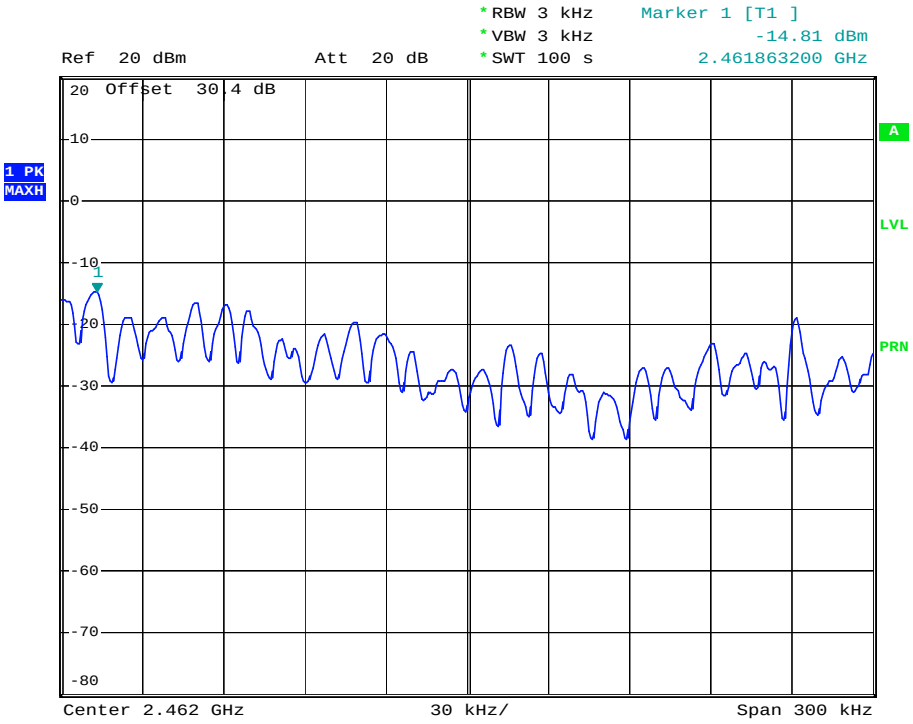
Date: 18.JUL.2008 10:19:42

Power Spectral Density (802.11b-CH 6)



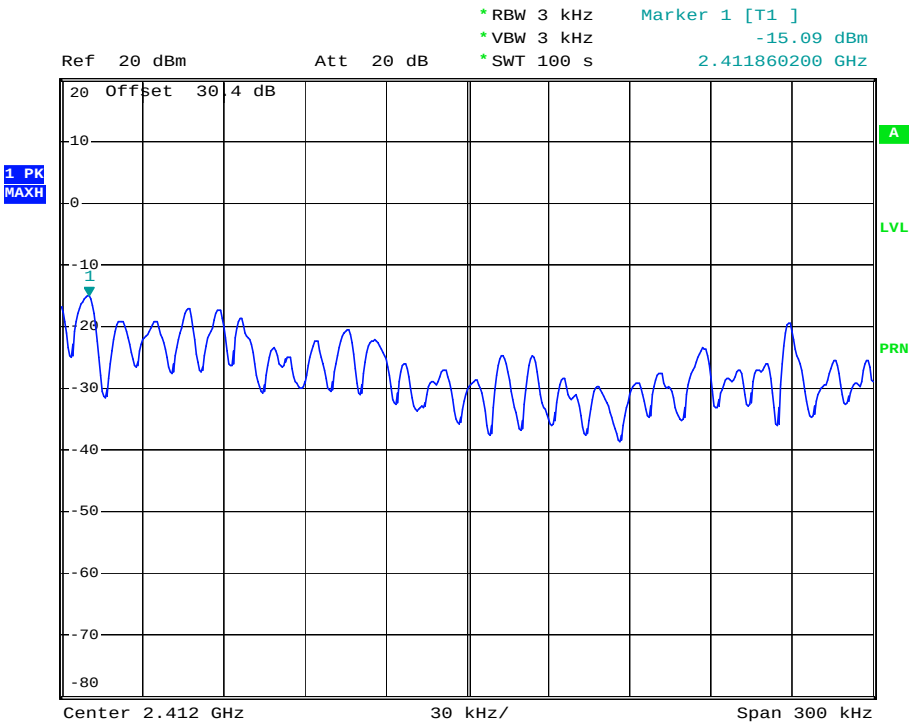
Date: 18.JUL.2008 10:12:56

Power Spectral Density (802.11b-CH 11)



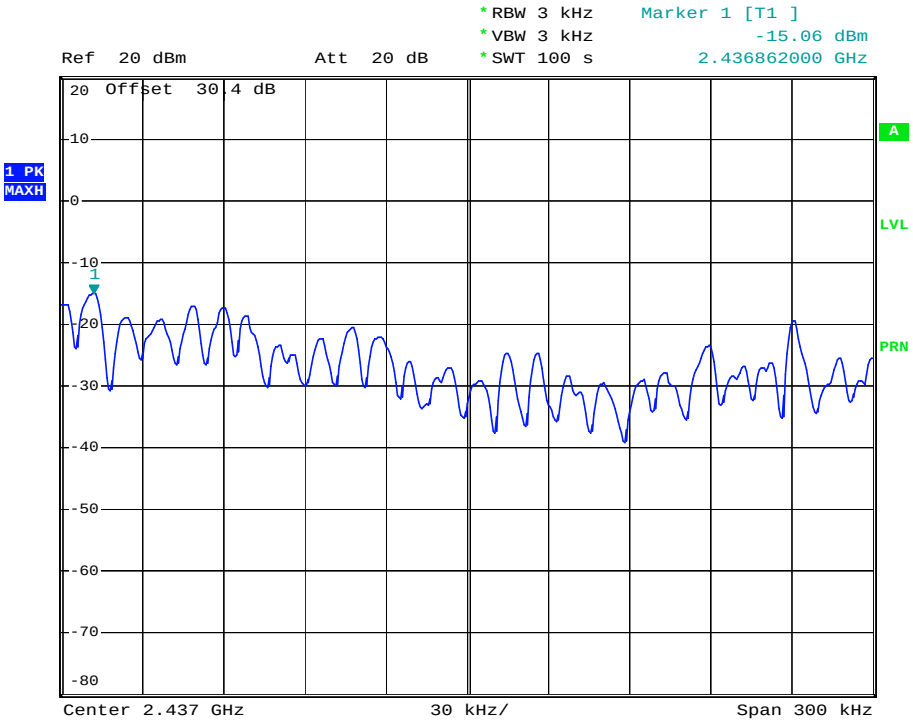
Date: 18.JUL.2008 09:46:35

Power Spectral Density (802.11g-CH 1)



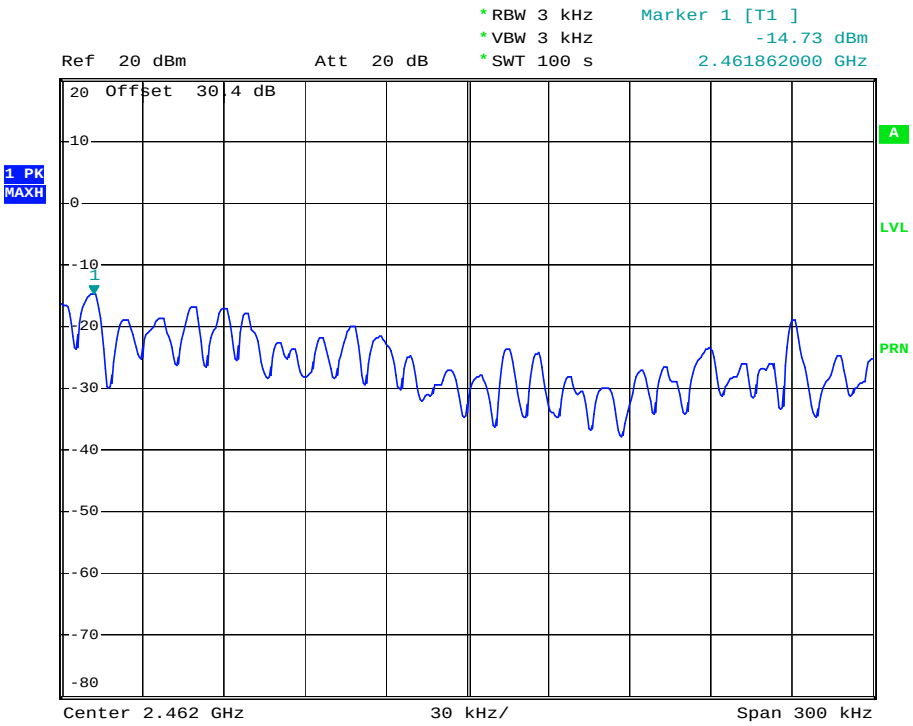
Date: 18.JUL.2008 09:40:53

Power Spectral Density (802.11g-CH 6)



Date: 18.JUL.2008 09:35:49

Power Spectral Density (802.11g-CH11)



Date: 18.JUL.2008 10:24:12

7.4 Out of Band Emissions at the Band Edge/ Conducted Spurious Emissions

Test Requirments and limit, §15.247(d)

§15.247 (c) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in§ 15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

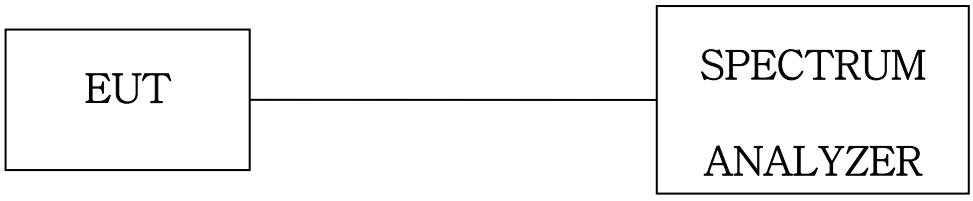
TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz.

The video bandwidth is set to 100 kHz.

The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowst, middle, and highest channels.

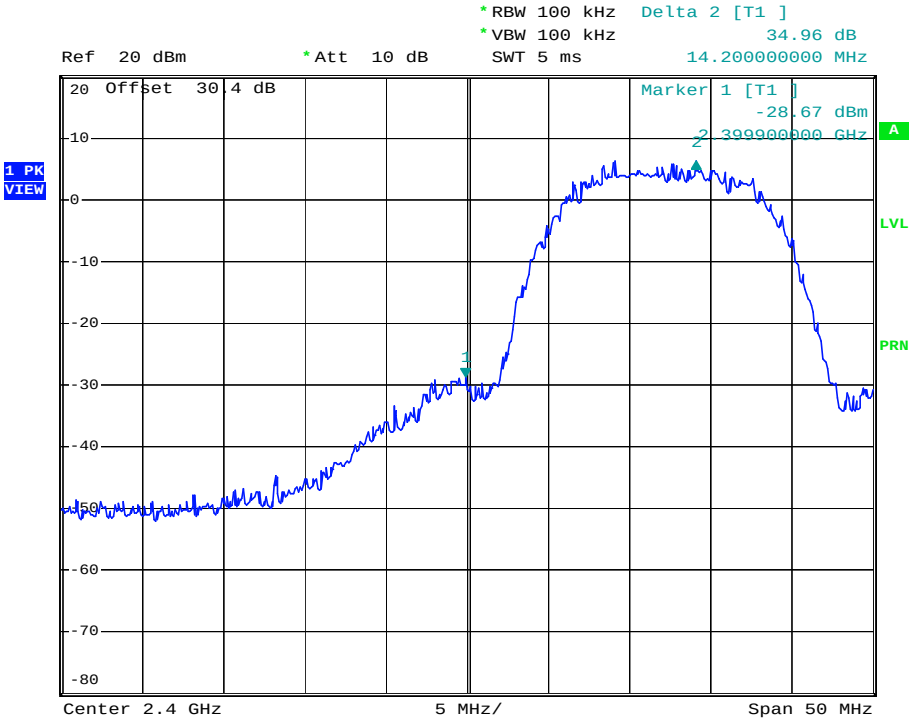
TEST SETUP



RESULTS

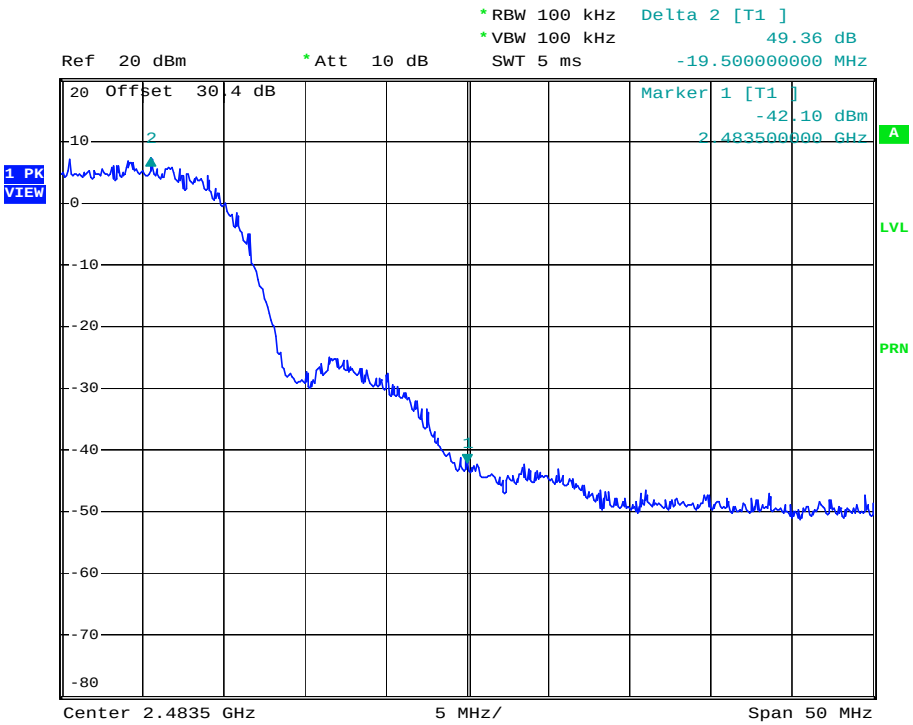
▣ RESULT PLOTS

BandEdge (802.11b-CH1)



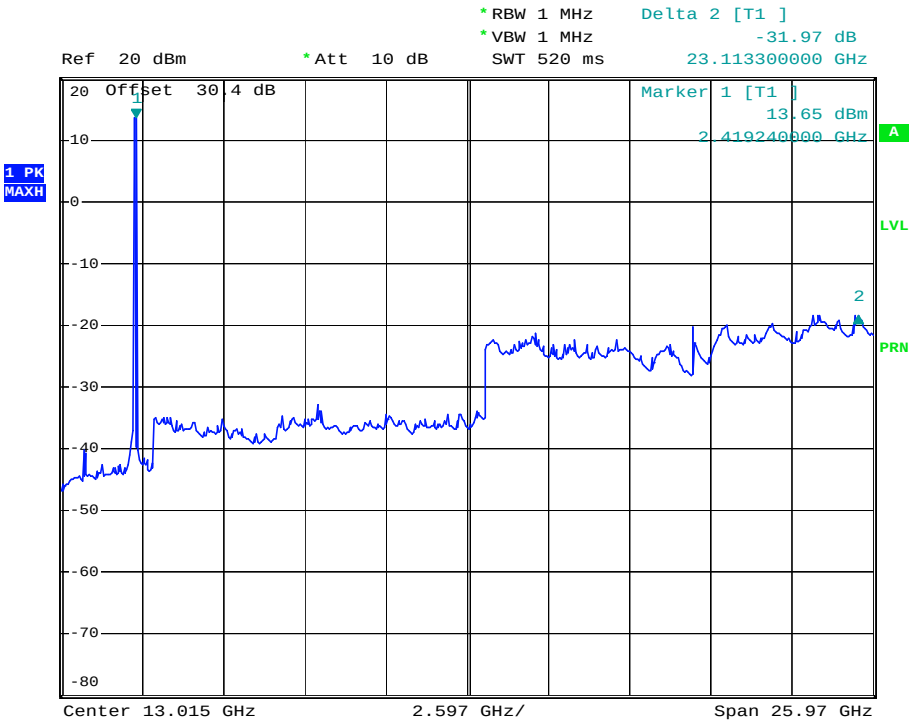
Date: 20.JUL.2008 09:33:35

BandEdge (802.11b-CH11)



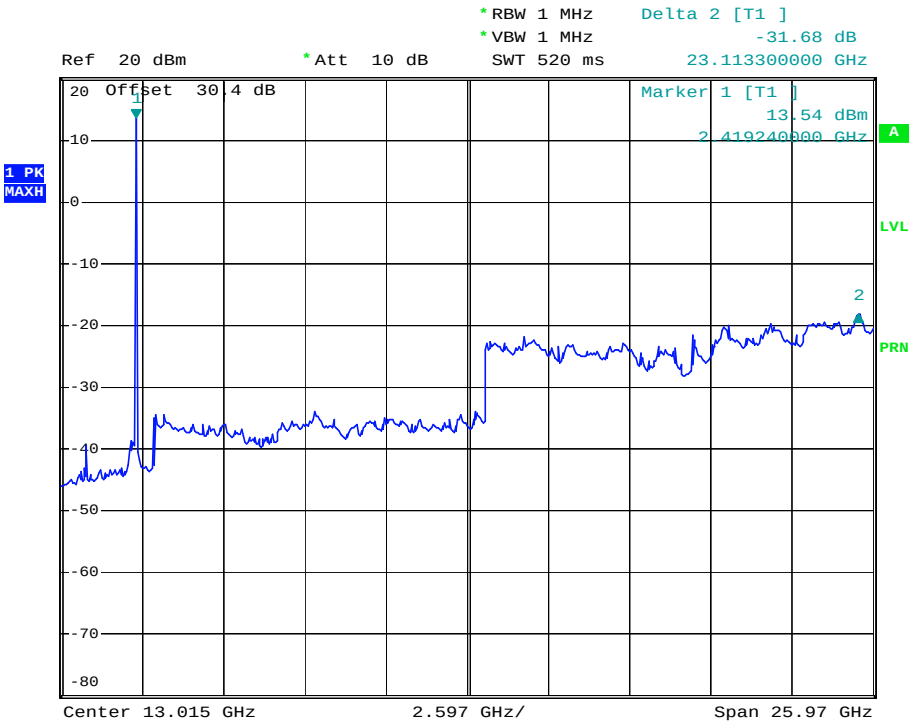
Date: 20.JUL.2008 09:36:01

Conducted Spurious Emission (802.11b-CH1)



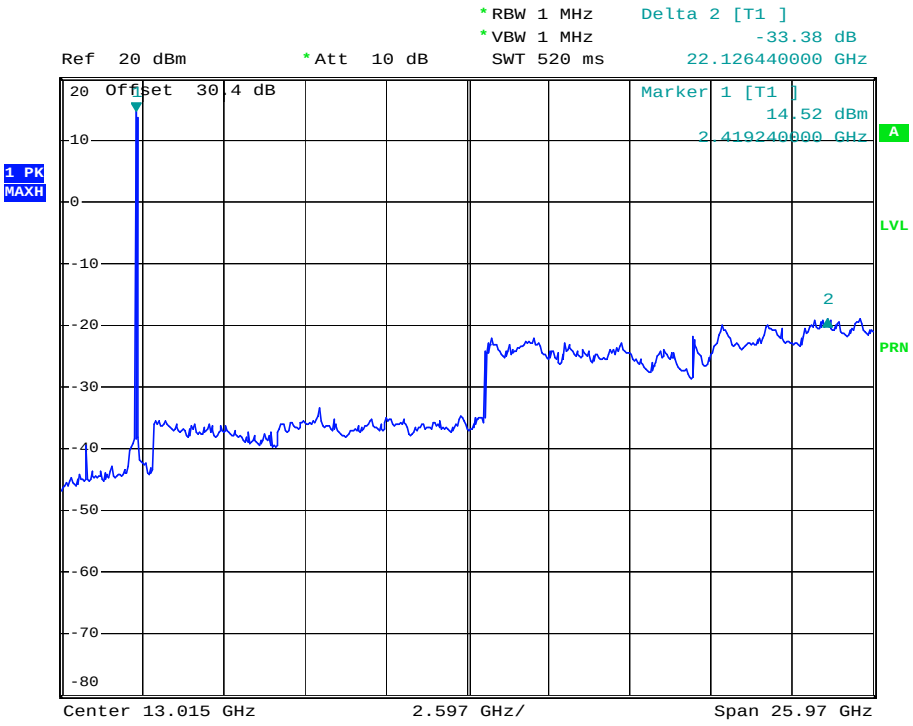
Date: 20.JUL.2008 09:24:08

Conducted Spurious Emission (802.11b-CH6)



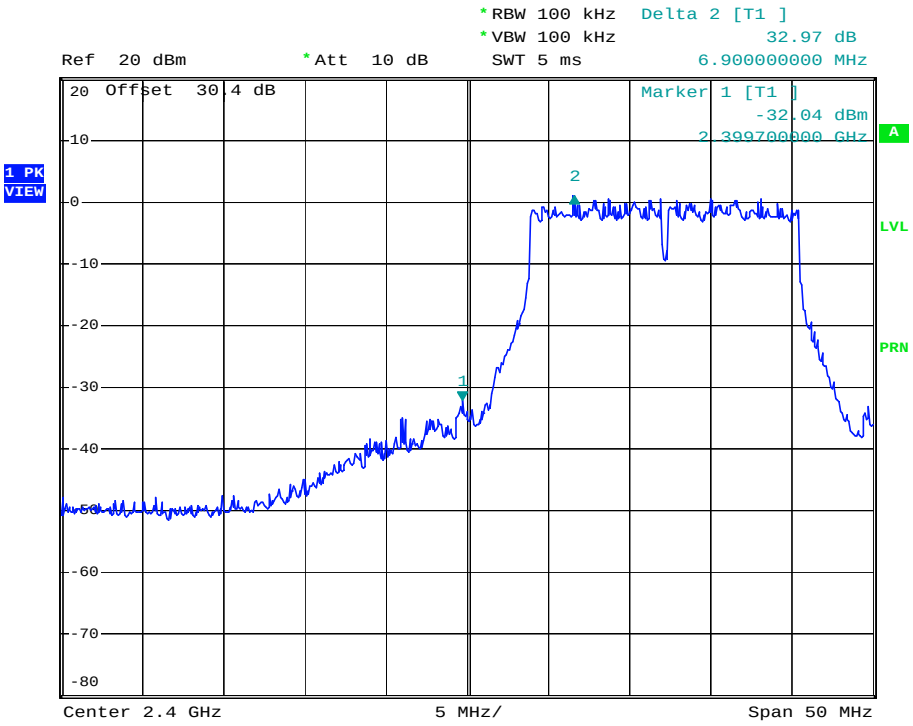
Date: 20.JUL.2008 09:25:30

Conducted Spurious Emission (802.11b-CH11)



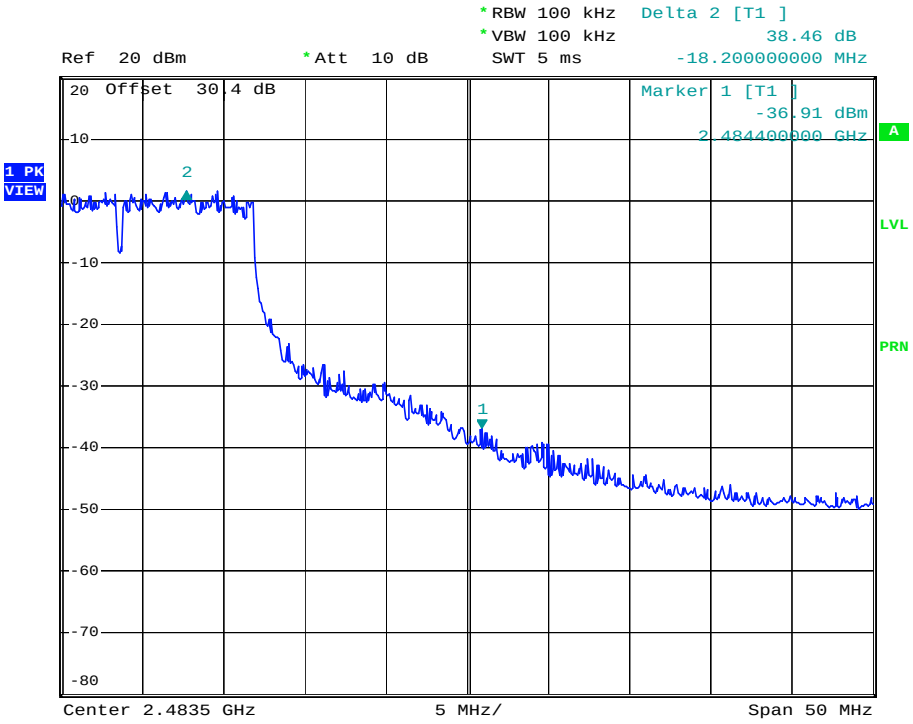
Date: 20.JUL.2008 09:26:22

BandEdge (802.11g-CH1)



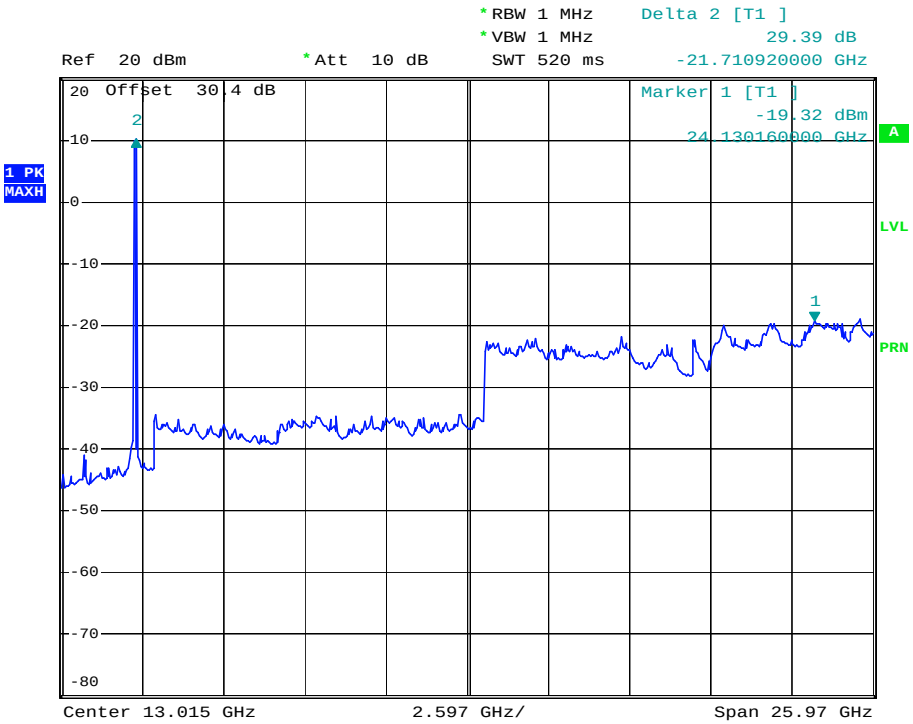
Date: 20.JUL.2008 09:32:39

BandEdge (802.11g-CH11)



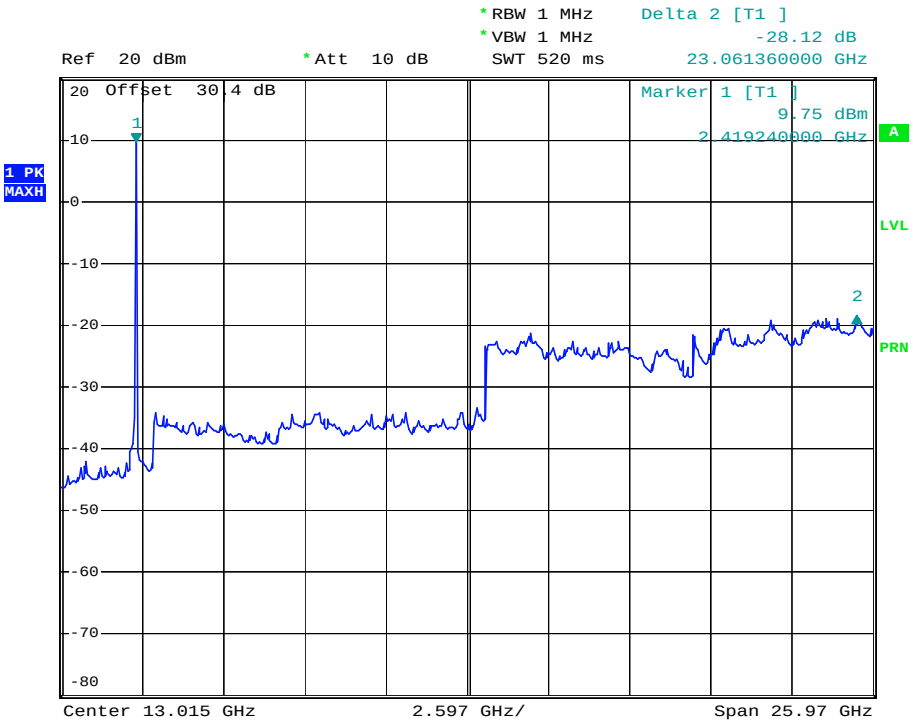
Date: 20.JUL.2008 09:31:41

Conducted Spurious Emission (802.11g-CH1)



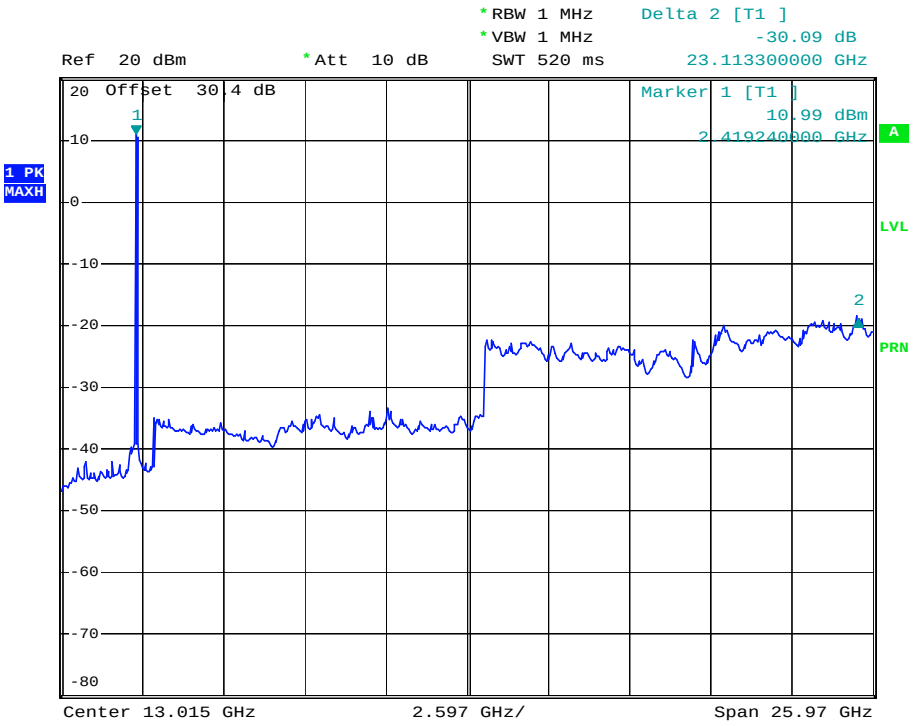
Date: 20.JUL.2008 09:27:29

Conducted Spurious Emission (802.11g-CH6)



Date: 20.JUL.2008 09:28:30

Conducted Spurious Emission (802.11g-CH11)



Date: 20.JUL.2008 09:29:23

7.5 Radiated Measurement.

7.5.1 Radiated Spurious Emissions.

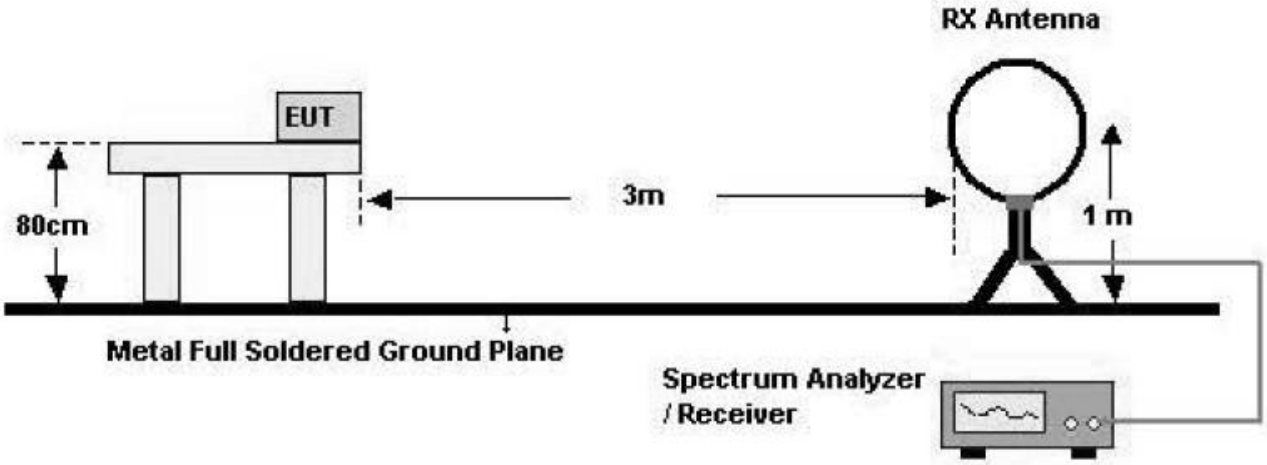
Test Requirments and limit, §15.247(d)

1. 20dBc in any 100kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed

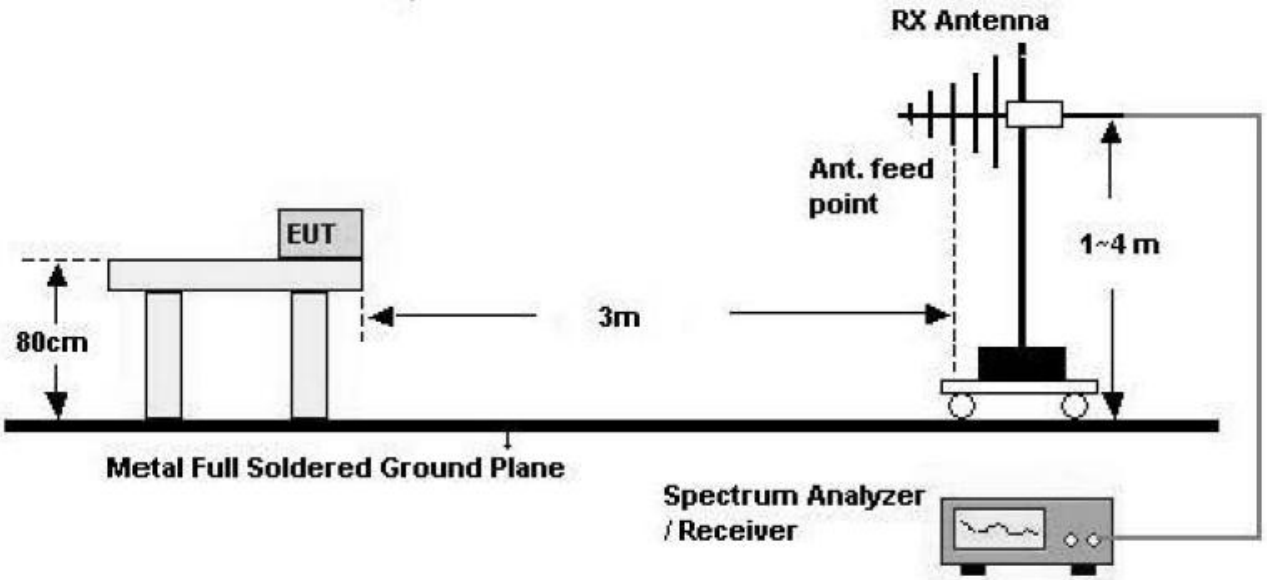
Frequency (MHz)	Field Strength (mV/m)	Measurement Distance (m)
0.009 – 0.490	2400/F(KHz)	300
0.490 – 1.705	24000/F(KHz)	30
1.705 – 30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Test Configuration

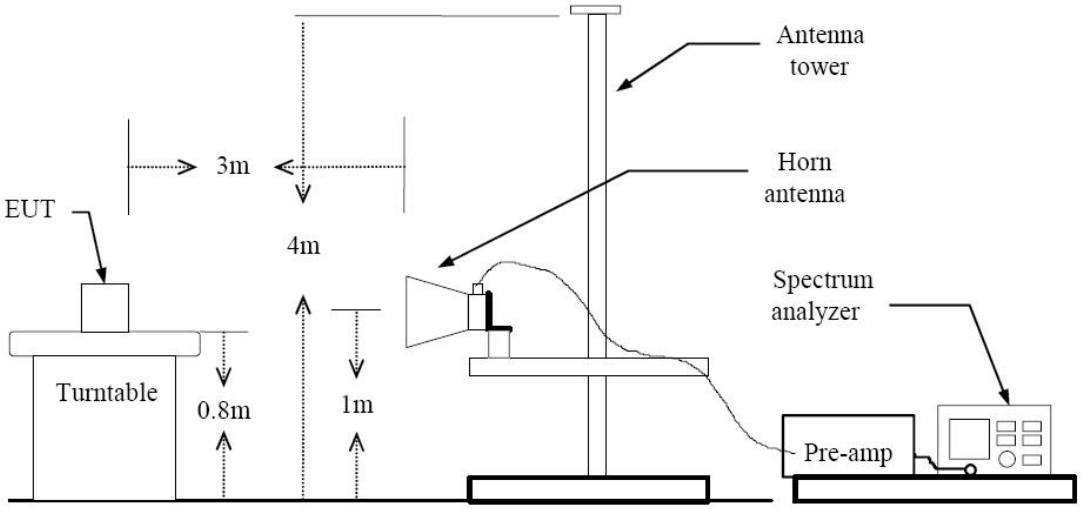
Below 30 MHz



30 MHz - 1 GHz



Above 1 GHz



TEST PROCEDURE

1. The EUT is placed on a turntable, which is 0.8 m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3 m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.

TEST RESULTS

9 kHz – 30MHz

Operation Mode: Normal Link

The reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.

Notes:

1. Measuring frequencies from 9 kHz to the 30MHz.
2. Distance extrapolation factor = 40 log (specific distance / test distance) (dB)
3. Limit line = specific Limits (dBuV) + Distance extrapolation factor

TEST RESULTS

Below 1 GHz

Operation Mode: Normal Link

Frequency MHz	Reading dBuV	Ant. Factor dB	Cable Loss dB	ANT POL (H/V)	Total dBuV/m	Limit dBuV/m	Margin dB
56.6	14.5	12.9	1.7	H	29.1	40.0	10.9
56.8	17.8	12.9	1.7	V	32.4	40.0	7.6
250.0	15.1	11.3	3.8	H	30.2	46.0	5.8
498.6	9.2	17.1	5.3	H	31.6	46.0	14.4

Notes:

1. Measuring frequencies from 30 MHz to the 1 GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Quasi peak detector mode.

Above 1 GHz

Operation Mode:	802.11 b
Transfer Rate:	11 Mbps
Operating Frequency	2412
Channel No.	01

Frequency [MHz]	Reading dBuV	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4824	42.31	-4.75	V	37.56	74	36.44	PK
4824	29.83	-4.75	V	25.08	54	28.92	AV
7236	45.26	1.31	V	46.57	74	27.43	PK
7236	33.25	1.31	V	34.56	54	19.44	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Spectrum setting:
   a. Peak Setting 1 GHz – 26 GHz, RBW = 1 MHz, VBW = 1 MHz.
   b. AV Setting 1 GHz- 26 GHz, RBW = 1 MHz, VBW = 10 Hz.

Operation Mode:	802.11 b
Transfer Rate:	11 Mbps
Operating Frequency	2437
Channel No.	06

Frequency [MHz]	Reading dBuV	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4874	48.74	-4.62	V	44.12	74	29.88	PK
4874	35.41	-4.62	V	30.79	54	23.21	AV
7311	46.21	1.58	V	47.79	74	26.21	PK
7311	34.17	1.58	V	35.75	54	18.25	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Spectrum setting:
   a. Peak Setting 1 GHz – 26 GHz, RBW = 1 MHz, VBW = 1 MHz.
   b. AV Setting 1 GHz- 26 GHz, RBW = 1 MHz, VBW = 10 Hz.

Operation Mode:	802.11 b
Transfer Rate:	11 Mbps
Operating Frequency	2462
Channel No.	11

Frequency [MHz]	Reading dBuV	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4924	55.34	-4.50	V	50.84	74	23.16	PK
4924	42.41	-4.50	V	37.91	54	16.09	AV
7386	54.23	1.85	V	56.08	74	17.92	PK
7386	42.95	1.85	V	44.80	54	9.20	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Spectrum setting:
   a. Peak Setting 1 GHz – 26 GHz, RBW = 1 MHz, VBW = 1 MHz.
   b. AV Setting 1 GHz- 26 GHz, RBW = 1 MHz, VBW = 10 Hz.

7.5.2 Radiated Restricted Band Edge Measurements

Test Requirments and limit, §15.247(d)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in section 15.209(a) (See section 15.205(c).

Operation Mode:	802.11 g
Transfer Rate:	54 Mbps
Operating Frequency	2462
Channel No.	11

Frequency [MHz]	Reading dBuV	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
2485.07	64.54	-9.76	V	54.78	74	19.22	PK
2485.07	45.39	-9.76	V	35.63	54	18.37	AV
2487.64	60.37	-9.74	V	50.63	74	23.37	PK
2487.64	40.92	-9.74	V	31.18	54	22.82	AV
2489.39	55.11	-9.74	V	45.37	74	28.63	PK
2489.39	45.81	-9.74	V	36.07	54	17.93	AV

Notes:

1. Spectrum setting:
   a. Peak Setting 1 GHz – 26 GHz, RBW = 1 MHz, VBW = 1 MHz.
   b. AV Setting 1 GHz- 26 GHz, RBW = 1 MHz, VBW = 10 Hz.

7.7 POWERLINE CONDUCTED EMISSIONS

Test Requirments and limit, §15.247(d)

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Frequency Range (MHz)	Limits (dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

Test Configuration

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

TEST PROCEDURE

1. The EUT is placed on a wooden table 80 cm above the reference groundplane.
2. The EUT is connected via LISN to a test power supply.
3. The measurement results are obtained as described below:
4. Detectors – Quasi Peak and Average Detector.

▣ RESULT PLOTS

HCT

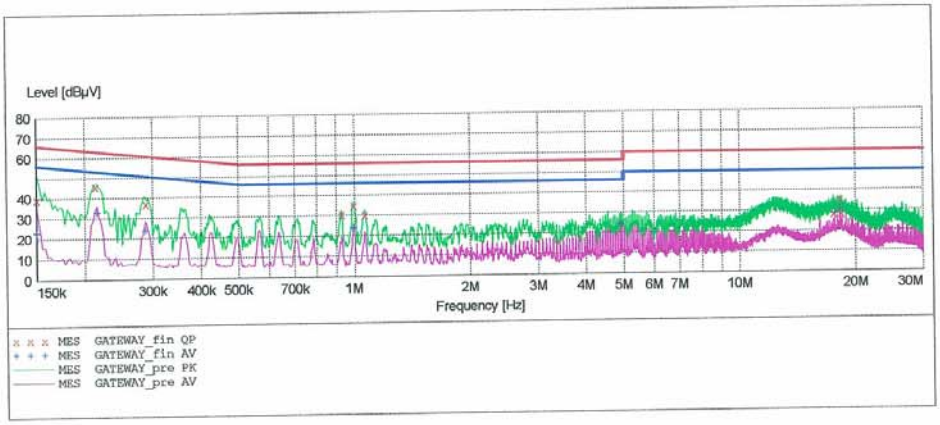
EMC TEST LAB.

```
EUT:                  MV430
Manufacturer:         AXESSTEL
Operating Condition:  WIFI MODE
Test Site:            SHIELD ROOM
Operator:             YH, LEE
Test Specification:   CISPR 22 CLASS B
Comment:              H
```

SCAN TABLE: "CISPR 22 Voltage"

Short Description: CISPR 22 Voltage

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
150.1 kHz	500.0 kHz	2.5 kHz	MaxPeak Average	10.0 ms	9 kHz	None
500.0 kHz	5.0 MHz	4.0 kHz	MaxPeak Average	10.0 ms	9 kHz	None
5.0 MHz	30.0 MHz	4.0 kHz	MaxPeak Average	10.0 ms	9 kHz	None



MEASUREMENT RESULT: "GATEWAY_fin QP"

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Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.150100	39.50	10.0	66	26.5	---	---
0.212600	45.70	10.0	63	17.4	---	---
0.287600	36.80	10.0	61	23.8	---	---
0.928000	30.50	10.1	56	25.5	---	---
0.996000	34.70	10.1	56	21.3	---	---
1.064000	30.40	10.2	56	25.6	---	---
17.548000	28.30	12.1	60	31.7	---	---
18.244000	35.10	12.2	60	24.9	---	---
18.380000	28.20	12.2	60	31.8	---	---

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MEASUREMENT RESULT: "GATEWAY_fin AV"

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Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.150100	23.10	10.0	56	32.9	---	---
0.215100	33.20	10.0	53	19.8	---	---
0.287600	23.90	10.0	51	26.7	---	---
0.996000	23.90	10.1	46	22.1	---	---
4.892000	24.50	10.6	46	21.5	---	---
4.956000	23.90	10.6	46	22.1	---	---
17.696000	28.50	12.2	50	21.5	---	---
18.244000	30.70	12.2	50	19.3	---	---
18.304000	29.20	12.2	50	20.8	---	---

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HCT

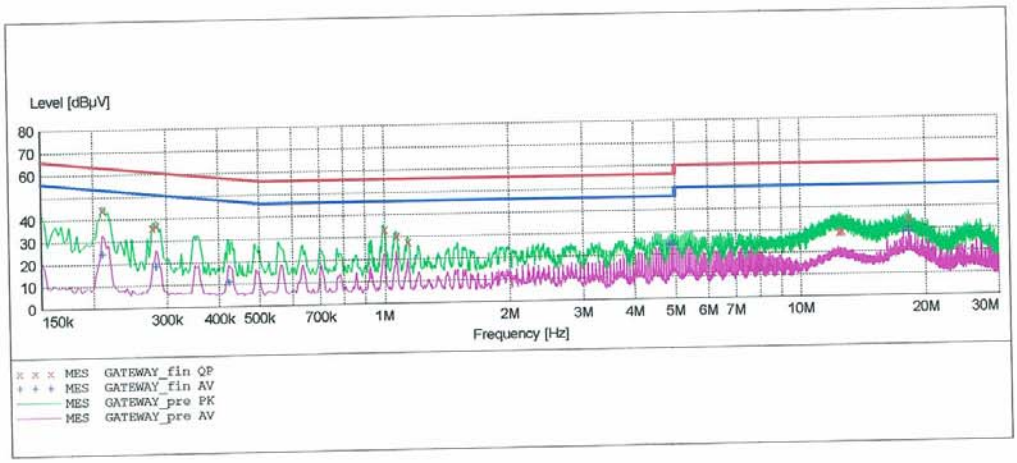
EMC TEST LAB.

EUT: MV430
Manufacturer: AXESSTEL
Operating Condition: WIFI MODE
Test Site: SHIELD ROOM
Operator: YH, LEE
Test Specification: CISPR 22 CLASS B
Comment: N

SCAN TABLE: "CISPR 22 Voltage"

Short Description: CISPR 22 Voltage

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
150.1 kHz	500.0 kHz	2.5 kHz	MaxPeak Average	10.0 ms	9 kHz	None
500.0 kHz	5.0 MHz	4.0 kHz	MaxPeak Average	10.0 ms	9 kHz	None
5.0 MHz	30.0 MHz	4.0 kHz	MaxPeak Average	10.0 ms	9 kHz	None



MEASUREMENT RESULT: "GATEWAY_fin QP"

7/7/2008 10:47PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.210100	44.50	10.0	63	18.7	---	---
0.277600	36.10	10.0	61	24.8	---	---
0.282600	37.10	10.0	61	23.6	---	---
1.000000	33.50	10.1	56	22.5	---	---
1.068000	30.60	10.2	56	25.4	---	---
1.140000	27.60	10.2	56	28.4	---	---
12.424000	28.90	11.5	60	31.1	---	---
12.584000	29.10	11.5	60	30.9	---	---
18.244000	34.90	12.2	60	25.1	---	---

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MEASUREMENT RESULT: "GATEWAY_fin AV"

7/7/2008 10:47PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.210100	24.80	10.0	53	28.4	---	---
0.282600	18.80	10.0	51	31.9	---	---
0.422600	11.20	10.0	47	36.2	---	---
4.824000	24.50	10.6	46	21.5	---	---
4.892000	25.10	10.6	46	20.9	---	---
4.960000	24.30	10.6	46	21.7	---	---
17.696000	28.70	12.2	50	21.3	---	---
18.244000	30.60	12.2	50	19.4	---	---
18.304000	29.00	12.2	50	21.0	---	---

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8. LIST OF TEST EQUIPMENT

Manufacturer	Model / Equipment	Cal Interval	Calibration Due	Serial No.
Rohde & Schwarz	ESCI/ EMI Test Receiver	Annual	08/24/ 2009	100033
Rohde & Schwarz	ESH2-Z5/ LISN	Annual	04/20/2009	861741/013
Rohde & Schwarz	ESH3-Z6/ LISN	Annual	03/19/2009	100329
Schwarzbeck	VULB 9160/ TRILOG Antenna	Biennial	04/20/2009	9160-3150
HD	MA240/ Antenna Position Tower	N/A	N/A	556
EMCO	1050/ Turn Table	N/A	N/A	114
HD GmbH	HD 100/ Controller	N/A	N/A	13
HD GmbH	KMS 560/ SlideBar	N/A	N/A	12
Rohde & Schwarz	ESH3-Z2/ PULSE LIMITER	Annual	10/03/2008	375.8810.352
MITEQ	AMF-60-0010 1800-35-20P	Annual	01/15/2009	1200937
Schwarzbeck	BBHA 9120D/ Horn Antenna	Biennial	03/30/2009	147
Schwarzbeck	BBHA9170/ SHF-EHF Horn Antenna	Biennial	03/20/2009	BBHA9170342
Rohde & Schwarz	6502/Loop Antenna	Biennial	12/26/2009	9009-2536
Rohde & Schwarz	FSP30/Spectrum Analyzer	Annual	07/31/2009	839117/011
Agilent	E4440A/Spectrum Analyzer	Annual	01/08/2009	US45303008
Agilent	E4416A /Power Meter	Annual	01/22/2009	GB41291412
Wainwright Instrument	WHF3.3/18G-10EF / High Pass Filter	Annual	06/28/2009	1
Hewlett Packard	11636B/Power Divider	Annual	01/14/2009	11377
DIGITAL	EP-3010 /DC POWER SUPPLY	Annual	01/10/2009	3110117