



FCC PART 15C TEST REPORT No.2011WLN0246

for

TCT MOBILE LIMITED

HSDPA/UMTS dual band / GSM four bands mobile phone

Type: Brandy Lite A

Market Name: one touch 908A

With

FCC ID: RAD169

Hardware Version: PIO

Software Version: V61S

Issued Date: 2011-06-07



No. DGA-PL-114/01-02

DAR accreditation (DIN EN ISO/IEC 17025): No. DGA-PL-114/01-02

FCC 2.948 Listed: No.733176

IC O.A.T.S listed: No.6629A-1

Note: The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of TMC Beijing.

Test Laboratory:

TMC Beijing, Telecommunication Metrology Center of Ministry of Industry and Information Technology

No. 52, Huayuan Bei Road, Haidian District, Beijing, P. R. China, 100191

Tel: +86(0)10-62304633, Fax: +86(0)10-62304793 Email: welcome@emcrite.com. www.emcrite.com

©Copyright. All rights reserved by TMC Beijing.

CONTENTS

CONTENTS	2
1. TEST LABORATORY	7
1.1. TESTING LOCATION	7
1.2. TESTING ENVIRONMENT	7
1.3. PROJECT DATA	7
1.4. SIGNATURE	7
2. CLIENT INFORMATION	8
2.1. APPLICANT INFORMATION	8
2.2. MANUFACTURER INFORMATION	8
3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT (AE)	9
3.1. ABOUT EUT	9
3.2. INTERNAL IDENTIFICATION OF EUT USED DURING THE TEST	9
3.3. INTERNAL IDENTIFICATION OF AE USED DURING THE TEST	9
3.4. GENERAL DESCRIPTION	9
4. REFERENCE DOCUMENTS	9
4.1. DOCUMENTS SUPPLIED BY APPLICANT	9
4.2. REFERENCE DOCUMENTS FOR TESTING	10
5. LABORATORY ENVIRONMENT	11
6. SUMMARY OF TEST RESULTS	12
6.1. SUMMARY OF TEST RESULTS	12
6.2. STATEMENTS	12
7. TEST EQUIPMENTS UTILIZED	13
ANNEX A: MEASUREMENT RESULTS	14
A.1. MEASUREMENT METHOD	14
A.2. MAXIMUM PEAK OUTPUT POWER	15
A.2.1. MAXIMUM PEAK OUTPUT POWER	15
A.3. PEAK POWER SPECTRAL DENSITY	17
FIG. 1 POWER SPECTRAL DENSITY (802.11B, CH 1)	18
FIG. 2 POWER SPECTRAL DENSITY (802.11B, CH 6)	18
FIG. 3 POWER SPECTRAL DENSITY (802.11B, CH 11)	19
FIG. 4 POWER SPECTRAL DENSITY (802.11G, CH 1)	19
FIG. 5 POWER SPECTRAL DENSITY (802.11G, CH 6)	20
FIG. 6 POWER SPECTRAL DENSITY (802.11G, CH 11)	20
FIG. 7 POWER SPECTRAL DENSITY (802.11N-20MHZ, CH 1)	21
FIG. 8 POWER SPECTRAL DENSITY (802.11N-20MHZ, CH 6)	21

FIG. 9	POWER SPECTRAL DENSITY (802.11N-20MHZ, CH 11)	22
A.4.	OCCUPIED 6dB BANDWIDTH	23
FIG. 10	OCCUPIED 6dB BANDWIDTH (802.11B, CH 1)	24
FIG. 11	OCCUPIED 6dB BANDWIDTH (802.11B, CH 6)	24
FIG. 12	OCCUPIED 6dB BANDWIDTH (802.11B, CH 11)	25
FIG. 13	OCCUPIED 6dB BANDWIDTH (802.11G, CH 1)	25
FIG. 14	OCCUPIED 6dB BANDWIDTH (802.11G, CH 6)	26
FIG. 15	OCCUPIED 6dB BANDWIDTH (802.11G, CH 11)	26
FIG. 16	OCCUPIED 6dB BANDWIDTH (802.11N-20MHZ, CH 1)	27
FIG. 17	OCCUPIED 6dB BANDWIDTH (802.11N-20MHZ, CH 6)	27
FIG. 18	OCCUPIED 6dB BANDWIDTH (802.11N-20MHZ, CH 11)	28
A.5.	BAND EDGES COMPLIANCE	29
FIG. 19	BAND EDGES (802.11B, CH 1)	30
FIG. 20	BAND EDGES (802.11B, CH 11)	30
FIG. 21	BAND EDGES (802.11G, CH 1)	31
FIG. 22	BAND EDGES (802.11G, CH 11)	31
FIG. 23	BAND EDGES (802.11N-20MHZ, CH 1)	32
FIG. 24	BAND EDGES (802.11N-20MHZ, CH 11)	32
A.6.	TRANSMITTER SPURIOUS EMISSION	33
A.6.1	TRANSMITTER SPURIOUS EMISSION - CONDUCTED	33
FIG. 25	CONDUCTED SPURIOUS EMISSION (802.11B, CH1, CENTER FREQUENCY)	36
FIG. 26	CONDUCTED SPURIOUS EMISSION (802.11B, CH1, 30 MHz-1 GHz)	36
FIG. 27	CONDUCTED SPURIOUS EMISSION (802.11B, CH1, 1 GHz-2.5 GHz)	37
FIG. 28	CONDUCTED SPURIOUS EMISSION (802.11B, CH1, 2.5 GHz-7.5 GHz)	37
FIG. 29	CONDUCTED SPURIOUS EMISSION (802.11B, CH1, 7.5 GHz-10 GHz)	38
FIG. 30	CONDUCTED SPURIOUS EMISSION (802.11B, CH1, 10 GHz-15 GHz)	38
FIG. 31	CONDUCTED SPURIOUS EMISSION (802.11B, CH1, 15 GHz-20 GHz)	39
FIG. 32	CONDUCTED SPURIOUS EMISSION (802.11B, CH1, 20 GHz-26 GHz)	39
FIG. 33	CONDUCTED SPURIOUS EMISSION (802.11B, CH6, CENTER FREQUENCY)	40
FIG. 34	CONDUCTED SPURIOUS EMISSION (802.11B, CH6, 30 MHz-1 GHz)	40
FIG. 35	CONDUCTED SPURIOUS EMISSION (802.11B, CH6, 1 GHz-2.5 GHz)	41
FIG. 36	CONDUCTED SPURIOUS EMISSION (802.11B, CH6, 2.5 GHz-7.5 GHz)	41
FIG. 37	CONDUCTED SPURIOUS EMISSION (802.11B, CH6, 7.5 GHz-10 GHz)	42
FIG. 38	CONDUCTED SPURIOUS EMISSION (802.11B, CH6, 10 GHz-15 GHz)	42
FIG. 39	CONDUCTED SPURIOUS EMISSION (802.11B, CH6, 15 GHz-20 GHz)	43
FIG. 40	CONDUCTED SPURIOUS EMISSION (802.11B, CH6, 20 GHz-26 GHz)	43
FIG. 41	CONDUCTED SPURIOUS EMISSION (802.11B, CH11, CENTER FREQUENCY)	44
FIG. 42	CONDUCTED SPURIOUS EMISSION (802.11B, CH11, 30 MHz-1 GHz)	44
FIG. 43	CONDUCTED SPURIOUS EMISSION (802.11B, CH11, 1 GHz-2.5 GHz)	45
FIG. 44	CONDUCTED SPURIOUS EMISSION (802.11B, CH11, 2.5 GHz-7.5 GHz)	45
FIG. 45	CONDUCTED SPURIOUS EMISSION (802.11B, CH11, 7.5 GHz-10 GHz)	46
FIG. 46	CONDUCTED SPURIOUS EMISSION (802.11B, CH11, 10 GHz-15 GHz)	46
FIG. 47	CONDUCTED SPURIOUS EMISSION (802.11B, CH11, 15 GHz-20 GHz)	47
FIG. 48	CONDUCTED SPURIOUS EMISSION (802.11B, CH11, 20 GHz-26 GHz)	47

FIG. 49	CONDUCTED SPURIOUS EMISSION (802.11G, CH1, CENTER FREQUENCY)	48
FIG. 50	CONDUCTED SPURIOUS EMISSION (802.11G, CH1, 30 MHz-1 GHz).....	48
FIG. 51	CONDUCTED SPURIOUS EMISSION ((802.11G, CH1, 1 GHz-2.5 GHz).....	49
FIG. 52	CONDUCTED SPURIOUS EMISSION ((802.11G, CH1, 2.5 GHz-7.5 GHz).....	49
FIG. 53	CONDUCTED SPURIOUS EMISSION ((802.11G, CH1, 7.5 GHz-10 GHz).....	50
FIG. 54	CONDUCTED SPURIOUS EMISSION ((802.11G, CH1, 10 GHz-15 GHz).....	50
FIG. 55	CONDUCTED SPURIOUS EMISSION ((802.11G, CH1, 15 GHz-20 GHz).....	51
FIG. 56	CONDUCTED SPURIOUS EMISSION ((802.11G, CH1, 20 GHz-26 GHz).....	51
FIG. 57	CONDUCTED SPURIOUS EMISSION ((802.11G, CH6, CENTER FREQUENCY)	52
FIG. 58	CONDUCTED SPURIOUS EMISSION ((802.11G, CH6, 30 MHz-1 GHz)	52
FIG. 59	CONDUCTED SPURIOUS EMISSION ((802.11G, CH6, 1 GHz-2.5 GHz).....	53
FIG. 60	CONDUCTED SPURIOUS EMISSION ((802.11G, CH6, 2.5 GHz-7.5 GHz).....	53
FIG. 61	CONDUCTED SPURIOUS EMISSION ((802.11G, CH6, 7.5 GHz-10 GHz).....	54
FIG. 62	CONDUCTED SPURIOUS EMISSION ((802.11G, CH6, 10 GHz-15 GHz).....	54
FIG. 63	CONDUCTED SPURIOUS EMISSION ((802.11G, CH6, 15 GHz-20 GHz).....	55
FIG. 64	CONDUCTED SPURIOUS EMISSION ((802.11G, CH6, 20 GHz-26 GHz).....	55
FIG. 65	CONDUCTED SPURIOUS EMISSION ((802.11G, CH11, CENTER FREQUENCY)	56
FIG. 66	CONDUCTED SPURIOUS EMISSION ((802.11G, CH11, 30 MHz-1 GHz).....	56
FIG. 67	CONDUCTED SPURIOUS EMISSION ((802.11G, CH11, 1 GHz-2.5 GHz)	57
FIG. 68	CONDUCTED SPURIOUS EMISSION ((802.11G, CH11, 2.5 GHz-7.5 GHz)	57
FIG. 69	CONDUCTED SPURIOUS EMISSION ((802.11G, CH11, 7.5 GHz-10 GHz)	58
FIG. 70	CONDUCTED SPURIOUS EMISSION ((802.11G, CH11, 10 GHz-15 GHz)	58
FIG. 71	CONDUCTED SPURIOUS EMISSION ((802.11G, CH11, 15 GHz-20 GHz)	59
FIG. 72	CONDUCTED SPURIOUS EMISSION ((802.11G, CH11, 20 GHz-26 GHz)	59
FIG. 73	CONDUCTED SPURIOUS EMISSION (802.11N-20MHz, CH1, CENTER FREQUENCY)	60
FIG. 74	CONDUCTED SPURIOUS EMISSION (802.11N-20MHz, CH1, 30 MHz-1 GHz)	60
FIG. 75	CONDUCTED SPURIOUS EMISSION ((802.11N-20MHz, CH1, 1 GHz-2.5 GHz).....	61
FIG. 76	CONDUCTED SPURIOUS EMISSION ((802.11N-20MHz, CH1, 2.5 GHz-7.5 GHz).....	61
FIG. 77	CONDUCTED SPURIOUS EMISSION ((802.11N-20MHz, CH1, 7.5 GHz-10 GHz).....	62
FIG. 78	CONDUCTED SPURIOUS EMISSION ((802.11N-20MHz, CH1, 10 GHz-15 GHz).....	62
FIG. 79	CONDUCTED SPURIOUS EMISSION ((802.11N-20MHz, CH1, 15 GHz-20 GHz).....	63
FIG. 80	CONDUCTED SPURIOUS EMISSION ((802.11N-20MHz, CH1, 20 GHz-26 GHz).....	63
FIG. 81	CONDUCTED SPURIOUS EMISSION ((802.11N-20MHz, CH6, CENTER FREQUENCY).....	64
FIG. 82	CONDUCTED SPURIOUS EMISSION ((802.11N-20MHz, CH6, 30 MHz-1 GHz).....	64
FIG. 83	CONDUCTED SPURIOUS EMISSION ((802.11N-20MHz, CH6, 1 GHz-2.5 GHz).....	65
FIG. 84	CONDUCTED SPURIOUS EMISSION ((802.11N-20MHz, CH6, 2.5 GHz-7.5 GHz).....	65
FIG. 85	CONDUCTED SPURIOUS EMISSION ((802.11N-20MHz, CH6, 7.5 GHz-10 GHz).....	66
FIG. 86	CONDUCTED SPURIOUS EMISSION ((802.11N-20MHz, CH6, 10 GHz-15 GHz).....	66
FIG. 87	CONDUCTED SPURIOUS EMISSION ((802.11N-20MHz, CH6, 15 GHz-20 GHz).....	67
FIG. 88	CONDUCTED SPURIOUS EMISSION ((802.11N-20MHz, CH6, 20 GHz-26 GHz).....	67
FIG. 89	CONDUCTED SPURIOUS EMISSION ((802.11N-20MHz, CH11, CENTER FREQUENCY)	68
FIG. 90	CONDUCTED SPURIOUS EMISSION ((802.11N-20MHz, CH11, 30 MHz-1 GHz)	68
FIG. 91	CONDUCTED SPURIOUS EMISSION ((802.11N-20MHz, CH11, 1 GHz-2.5 GHz)	69
FIG. 92	CONDUCTED SPURIOUS EMISSION ((802.11N-20MHz, CH11, 2.5 GHz-7.5 GHz)	69

FIG. 93	CONDUCTED SPURIOUS EMISSION ((802.11N-20MHz, CH11, 7.5 GHz-10 GHz)	70
FIG. 94	CONDUCTED SPURIOUS EMISSION ((802.11N-20MHz, CH11, 10 GHz-15 GHz)	70
FIG. 95	CONDUCTED SPURIOUS EMISSION ((802.11N-20MHz, CH11, 15 GHz-20 GHz)	71
FIG. 96	CONDUCTED SPURIOUS EMISSION ((802.11N-20MHz, CH11, 20 GHz-26 GHz)	71
A.6.2	TRANSMITTER SPURIOUS EMISSION - RADIATED	72
FIG. 97	RADIATED SPURIOUS EMISSION (POWER): 802.11B, CH1, 2.38 GHz - 243GHz	78
FIG. 98	RADIATED SPURIOUS EMISSION (802.11B, CH1, 30 MHz-1 GHz)	78
FIG. 99	RADIATED SPURIOUS EMISSION (802.11B, CH1, 1 GHz-4 GHz)	79
FIG. 100	RADIATED SPURIOUS EMISSION (802.11B, CH1, 4 GHz-18 GHz)	79
FIG. 101	RADIATED SPURIOUS EMISSION (802.11B, CH6, 30 MHz-1 GHz)	80
FIG. 102	RADIATED SPURIOUS EMISSION (802.11B, CH6, 1 GHz-4 GHz)	80
FIG. 103	RADIATED SPURIOUS EMISSION (802.11B, CH6, 4 GHz-18 GHz)	81
FIG. 104	RADIATED SPURIOUS EMISSION (POWER): 802.11B, CH11, 2.45 GHz - 2.50GHz	81
FIG. 105	RADIATED SPURIOUS EMISSION (802.11B, CH11, 30 MHz-1 GHz)	82
FIG. 106	RADIATED SPURIOUS EMISSION (802.11B, CH11, 1 GHz-4 GHz)	82
FIG. 107	RADIATED SPURIOUS EMISSION (802.11B, CH11, 4 GHz-18 GHz)	83
FIG. 108	RADIATED SPURIOUS EMISSION (POWER): 802.11G, CH1, 2.38 GHz - 2.43GHz	83
FIG. 109	RADIATED SPURIOUS EMISSION (802.11G, CH1, 30 MHz-1 GHz)	84
FIG. 110	RADIATED SPURIOUS EMISSION (802.11G, CH1, 1 GHz-4 GHz)	84
FIG. 111	RADIATED SPURIOUS EMISSION (802.11G, CH1, 4 GHz-18 GHz)	85
FIG. 112	RADIATED SPURIOUS EMISSION (802.11G, CH6, 30 MHz-1 GHz)	85
FIG. 113	RADIATED SPURIOUS EMISSION (802.11G, CH6, 1 GHz-4 GHz)	86
FIG. 114	RADIATED SPURIOUS EMISSION (802.11G, CH6, 4 GHz-18 GHz)	86
FIG. 115	RADIATED SPURIOUS EMISSION (POWER): 802.11G, CH11, 2.45 GHz - 2.50GHz	87
FIG. 116	RADIATED SPURIOUS EMISSION (802.11G, CH11, 30 MHz-1 GHz)	87
FIG. 117	RADIATED SPURIOUS EMISSION (802.11G, CH11, 1 GHz-4 GHz)	88
FIG. 118	RADIATED SPURIOUS EMISSION (802.11G, CH11, 4 GHz-18 GHz)	88
FIG. 119	RADIATED SPURIOUS EMISSION (POWER): 802.11N-20MHz, CH1, 2.38 GHz - 2.43GHz	89
FIG. 120	RADIATED SPURIOUS EMISSION (802.11N-20MHz, CH1, 30 MHz-1 GHz)	89
FIG. 121	RADIATED SPURIOUS EMISSION (802.11N-20MHz, CH1, 1 GHz-4 GHz)	90
FIG. 122	RADIATED SPURIOUS EMISSION (802.11N-20MHz, CH1, 4 GHz-18 GHz)	90
FIG. 123	RADIATED SPURIOUS EMISSION (802.11N-20MHz, CH6, 30 MHz-1 GHz)	91
FIG. 124	RADIATED SPURIOUS EMISSION (802.11N-20MHz, CH6, 1 GHz-4 GHz)	91
FIG. 125	RADIATED SPURIOUS EMISSION (802.11N-20MHz, CH6, 4 GHz-18 GHz)	92
FIG. 126	RADIATED SPURIOUS EMISSION (POWER): 802.11N-20MHz, CH11, 2.45 GHz - 2.50GHz	92
FIG. 127	RADIATED SPURIOUS EMISSION (802.11N-20MHz, CH11, 30 MHz-1 GHz)	93
FIG. 128	RADIATED SPURIOUS EMISSION (802.11N-20MHz, CH11, 1 GHz-4 GHz)	93
FIG. 129	RADIATED SPURIOUS EMISSION (802.11N-20MHz, CH11, 4 GHz-18 GHz)	94
FIG. 130	RADIATED EMISSION: 18 GHz - 26.5 GHz	94
A.7.	AC POWERLINE CONDUCTED EMISSION	95
FIG. 131	AC POWERLINE CONDUCTED EMISSION-802.11B	96
FIG. 132	AC POWERLINE CONDUCTED EMISSION-802.11G	98

FIG. 133	AC POWERLINE CONDUCTED EMISSION-802.11N-20MHZ	100
----------	---	-----

1. Test Laboratory

1.1. Testing Location

Company Name: TMC Beijing, Telecommunication Metrology Center of MIIT
Address: No. 52, Huayuan Bei Road, Haidian District, Beijing, P. R. China
Postal Code: 100191
Telephone: 00861062304633
Fax: 00861062304793

1.2. Testing Environment

Normal Temperature: 15-30℃
Extreme Temperature: -20/+55℃
Relative Humidity: 30-60%
Air Pressure 990hPa-1040hPa

Note: The climatic requirements above are general exclude the special requirements for dedicated test environments listed in section 5 and some specific test cases in other parts of this report.

1.3. Project data

Testing End Date: 2011-06-07

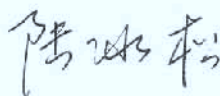
1.4. Signature



Sun Zhenyu
(Prepared this test report)



Gao Hong
(Reviewed this test report)



Lu Bingsong
Deputy Director of the laboratory
(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name: TCT MOBILE LIMITED
Address /Post: 5F, E building, No. 232, Liang Jing Road ZhangJiang High-Tech Park,
Pudong Area Shanghai, P.R. China. 201203
City: Shanghai
Postal Code: 201203
Country: China
Contact: Gong Zhizhou
Email: zhizhou.gong@jrdcom.com
Telephone: 0086-21-61460890
Fax: 0086-21-61460602

2.2. Manufacturer Information

Company Name: TCT MOBILE LIMITED
Address /Post: 5F, E building, No. 232, Liang Jing Road ZhangJiang High-Tech Park,
Pudong Area Shanghai, P.R. China. 201203
City: Shanghai
Postal Code: 201203
Country: China
Contact: Gong Zhizhou
Email: zhizhou.gong@jrdcom.com
Telephone: 0086-21-61460890
Fax: 0086-21-61460602

3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	HSDPA/UMTS dual band / GSM four bands mobile phone
Type	Brandy Lite A
FCC ID	RAD169
IC ID	/
With WLAN Function	Yes
Frequency Range	ISM 2400MHz~2483.5MHz
Type of Modulation	DSSS/CCK/OFDM
Number of Channels	11
Antenna	Integral Antenna
MAX Conducted Power	23.20dBm(CCK)
Power Supply	3.7V DC by Battery

Note: Photographs of EUT are shown in ANNEX C of this test report.

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version
EUT1	012633000040737	PIO	V61S
EUT2	012633000041081	PIO	V61S

*EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE used during the test

AE ID*	Description	Type	SN
AE1	Battery	CAB31P0000C1	/
AE2	Travel Adapter	CBA3001AG0C1	/
AE3	Travel Adapter	CBA3001AG0C2	/
AE4	Travel Adapter	CBA3000AG0C1	/

*AE ID: is used to identify the test sample in the lab internally.

3.4. General Description

Equipment Under Test (EUT) is a model of HSDPA/UMTS dual band / GSM four bands mobile phone with integrated antenna. It consists of normal options: Battery and Charger.

Manual and specifications of the EUT were provided to fulfil the test.

Samples undergoing test were selected by the Client.

4. Reference Documents

4.1. Documents supplied by applicant

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

FCC Part15	FCC CFR 47, Part 15, Subpart C:	Oct, 2009 Edition
	15.205 Restricted bands of operation;	
	15.209 Radiated emission limits, general requirements;	
ANSI C63.4	15.247 Operation within the bands 902–928MHz, 2400–2483.5 MHz, and 5725–5850 MHz.	2009
	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the	
	Range of 9 kHz to 40 GHz	
KDB558074	Measurement of Digital Transmission Systems	March 23, 2005
	Operating under Section 15.247	

5. LABORATORY ENVIRONMENT

Shielding Room1 (6.0 meters×3.0 meters×2.7 meters) did not exceed following limits along the conducted RF performance testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Ground system resistance	< 0.5 Ω
Uniformity of field strength	Between 0 and 6 dB, from 80MHz to 3000 MHz

Control room did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. =30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω

Semi-anechoic chamber (23 meters×17meters×10meters) did not exceed following limits along the EMC testing::

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω
Normalised site attenuation (NSA)	< ±3.2 dB, 10 m distance, from 30 to 1000 MHz
Uniformity of field strength	Between 0 and 6 dB, from 80MHz to 3000 MHz

Shielding Room2 (7.30 meters×4.00 meters×3.80 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω
Uniformity of field strength	Between 0 and 6 dB, from 80MHz to 3000 MHz

6. SUMMARY OF TEST RESULTS

6.1. Summary of Test Results

SUMMARY OF MEASUREMENT RESULTS	Sub-clause of Part15C	Sub-clause of IC	Verdict
Maximum Peak Output Power	15.247 (a)	/	P
Peak Power Spectral Density	15.247 (d)	/	P
Occupied 6dB Bandwidth	15.247 (d)	/	P
Band Edges Compliance	15.247 (b)	/	P
Transmitter Spurious Emission - Conducted	15.247	/	P
Transmitter Spurious Emission - Radiated	15.247, 15.209, 15.209	/	P
AC Powerline Conducted Emission	15.107, 15.207	/	P

Please refer to **ANNEX A** for detail.

The measurement is made according to Public notice KDB558074 and ANSI C63.4.

Terms used in Verdict column

P	Pass, The EUT complies with the essential requirements in the standard.
NP	Not Perform, The test was not performed by TMC
NA	Not Applicable, The test was not applicable
F	Fail, The EUT does not comply with the essential requirements in the standard

6.2. Statements

TMC has evaluated the test cases requested by the client/manufacturer as listed in section 6.1 of this report for the EUT specified in section 3 according to the standards or reference documents listed in section 4.1.

This report only deals with the WLAN function among the features described in section 3.

Test Conditions

T nom	Normal Temperature
T min	Low Temperature
T max	High Temperature
V nom	Normal Voltage
V min	Low Voltage
V max	High Voltage
H nom	Norm Humidity
A nom	Norm Air Pressure

For this report, all the test case listed above are tested under Normal Temperature and Normal Voltage, and also under norm humidity, the specific conditions as following:

Temperature	T nom	26°C
Voltage	V nom	3.6V(By battery)
Humidity	H nom	44%
Air Pressure	A nom	1010hPa

7. Test Equipments Utilized

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date
1	Vector Signal Analyzer	FSQ40	200089	Rohde & Schwarz	2011-07-19
2	Test Receiver	ESS	847151/015	Rohde & Schwarz	2011-10-30
3	LISN	ESH2-Z5	829991/012	Rohde & Schwarz	2011-08-12

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date
1	Test Receiver	ESI40	831564/002	Rohde & Schwarz	2011-08-11
2	BiLog Antenna	3142B	9908-1403	EMCO	2012-03-15
3	Dual-Ridge Waveguide Horn Antenna	3115	9906-5827	EMCO	2011-12-25

Anechoic chamber

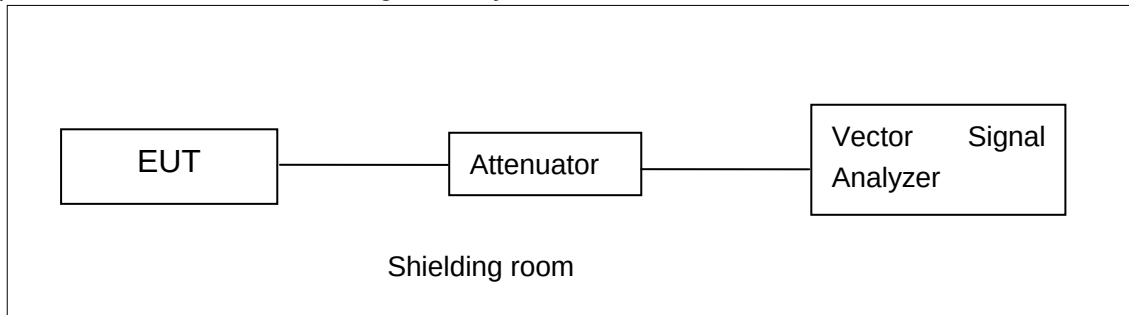
Anechoic chamber by Frankonia German.

ANNEX A: MEASUREMENT RESULTS

A.1. Measurement Method

A.1.1. Conducted Measurements

- 1). Connect the EUT to the test system correctly.
- 2). Set the EUT to the required work mode.
- 3). Set the EUT to the required channel.
- 4). Set the spectrum analyzer to start measurement.
- 5). Record the values. Vector Signal Analyzer

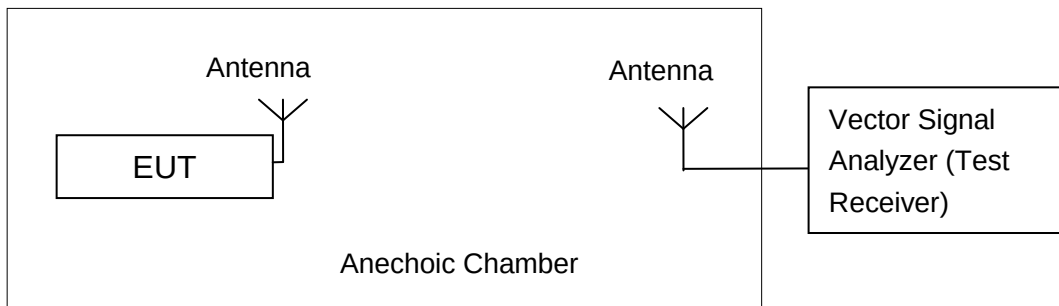


A.1.2. Radiated Emission Measurements

In the case of radiated emission, the used settings are as follows,

Sweep frequency from 30 MHz to 1GHz, RBW = 100 kHz, VBW = 300 kHz;

Sweep frequency from 1 GHz to 26GHz, RBW = 1MHz, VBW = 10Hz;



The measurement is made according to ANSI C63.4 and KDB558074

A.2. Maximum Peak Output Power

Measurement Limit and Method:

Standard	Limit (dBm)
FCC CRF Part 15.247(b)	< 30

The measurement is made according to ANSI C63.4 and KDB558074, and power output option 1 (RBW=20MHz) in KDB558074 is used for the test. EUT is operating in continuous transmitting mode

Measurement Uncertainty:

Measurement Uncertainty	0.75dB
-------------------------	--------

A.2.1. Maximum Peak Output Power

Measurement Results:

802.11b/g mode

Mode	Data Rate (Mbps)	Test Result (dBm)		
		2412MHz (Ch1)	2437MHz (Ch6)	2462 MHz (Ch11)
802.11b	1	18.25	/	/
	2	19.30	/	/
	5.5	20.38	/	/
	11	21.42	21.82	22.35
802.11g	6	22.35	/	/
	9	22.32	/	/
	12	22.53	/	/
	18	22.24	/	/
	24	22.68	/	/
	36	22.42	/	/
	48	22.62	/	/
	54	22.75	22.88	23.20

The data rate 11Mbps and 54Mbps are selected as worse condition, and the following cases are performed with this condition.

802.11n mode

Mode	Data Rate (MCS Index)	Test Result (dBm)		
		2412MHz (Ch1)	2437MHz (Ch6)	2462 MHz (Ch11)
802.11n (20MHz BW)	MCS0	22.12	/	/
	MCS1	22.50	/	/
	MCS2	22.23	/	/
	MCS3	22.39	/	/
	MCS4	22.53	/	/
	MCS5	22.52	/	/

	MCS6	22.41	/	/
	MCS7	22.65	22.50	22.77
802.11n (40MHz)	MCS0	/	/	/
	MCS1	/	/	/
	MCS2	/	/	/
	MCS3	/	/	/
	MCS4	/	/	/
	MCS5	/	/	/
	MCS6	/	/	/
	MCS7	/	/	/

The data rate index of MCS7 is selected as worse condition, and the following cases are performed with this condition.

Conclusion: PASS

A.3. Peak Power Spectral Density

Measurement Limit:

Standard	Limit
FCC CRF Part 15.247(d)	< 8 dBm/3 kHz

The measurement is made according to ANSI C63.4 and KDB558074

Measurement Uncertainty:

Measurement Uncertainty	0.75dB
-------------------------	--------

Measurement Results:

802.11b/g mode

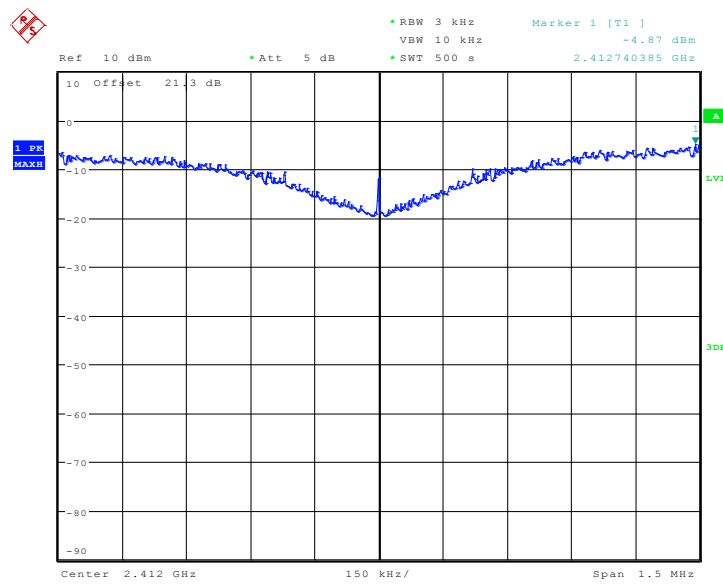
Mode	Channel	Power Spectral Density (dBm/3 kHz)		Conclusion
802.11b	1	Fig.1	-4.87	P
	6	Fig.2	-4.73	P
	11	Fig.3	-5.07	P
802.11g	1	Fig.4	-9.60	P
	6	Fig.5	-9.65	P
	11	Fig.6	-9.26	P

802.11n mode

Mode	Channel	Power Spectral Density (dBm/3 kHz)		Conclusion
802.11n (20MHz)	1	Fig.7	-9.47	P
	6	Fig.8	-8.81	P
	11	Fig.9	-8.83	P
802.11n (40MHz)	/	/	/	/
	/	/	/	/
	/	/	/	/

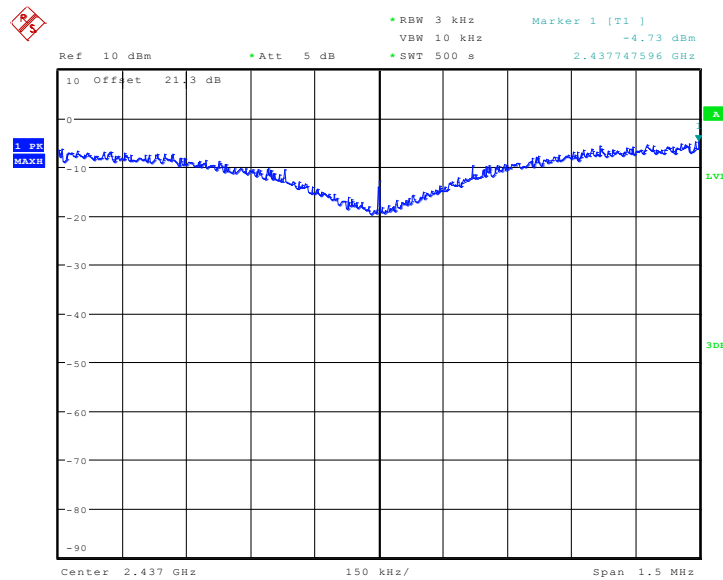
Conclusion: PASS

Test graphs as below:



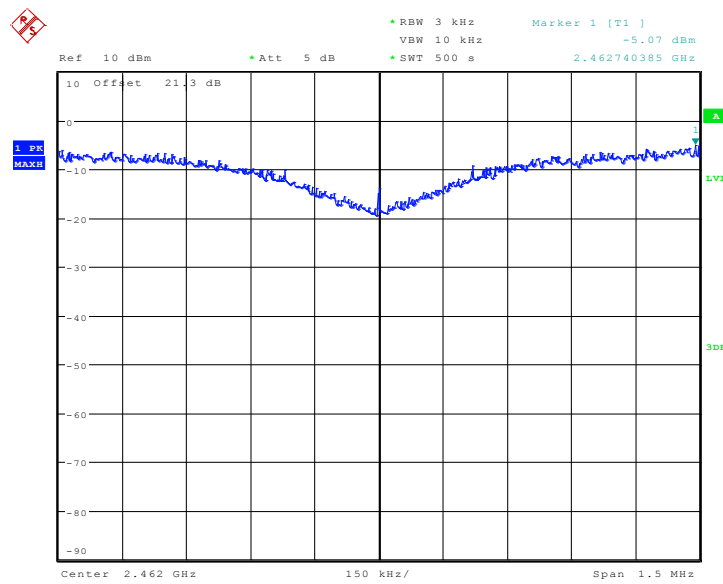
Date: 7.JUN.2011 10:50:01

Fig. 1 Power Spectral Density (802.11b, Ch 1)



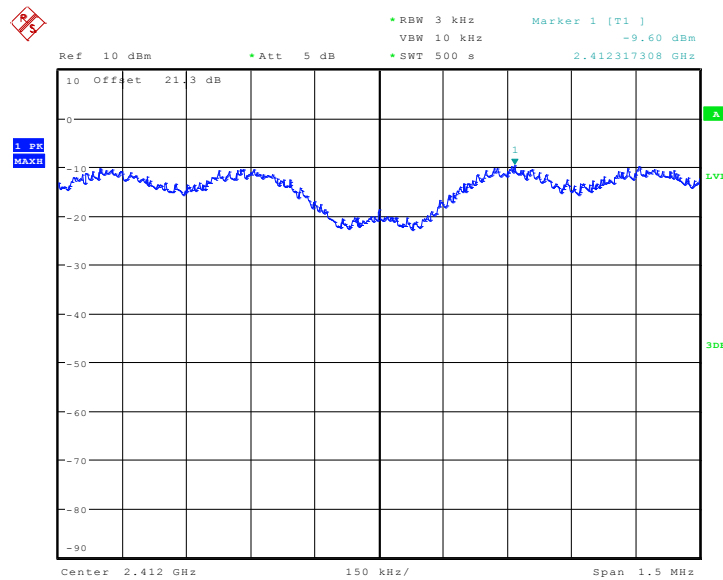
Date: 3.JUN.2011 18:52:02

Fig. 2 Power Spectral Density (802.11b, Ch 6)



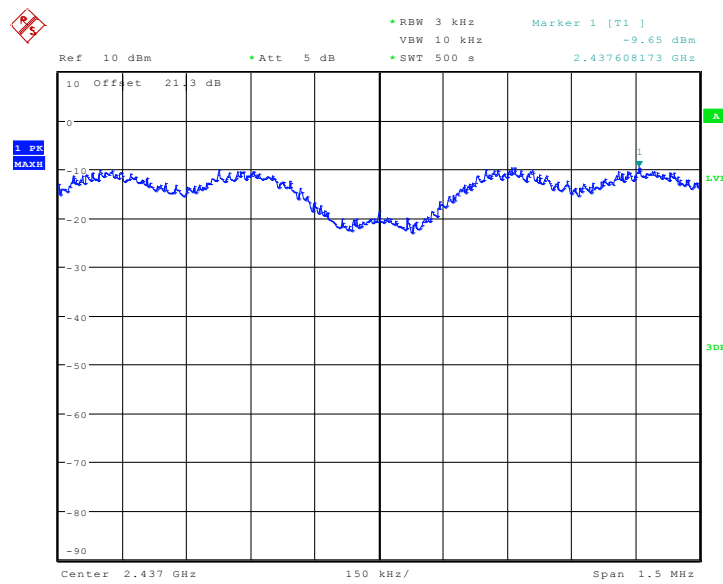
Date: 3.JUN.2011 19:02:10

Fig. 3 Power Spectral Density (802.11b, Ch 11)



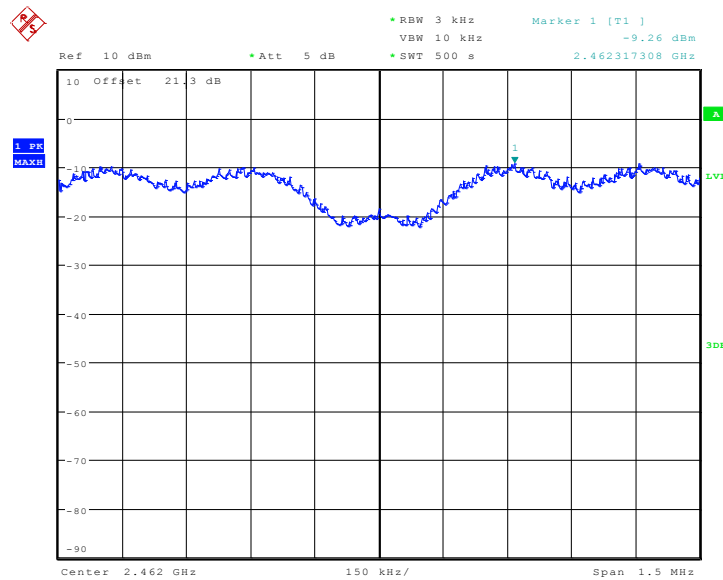
Date: 7.JUN.2011 11:03:17

Fig. 4 Power Spectral Density (802.11g, Ch 1)



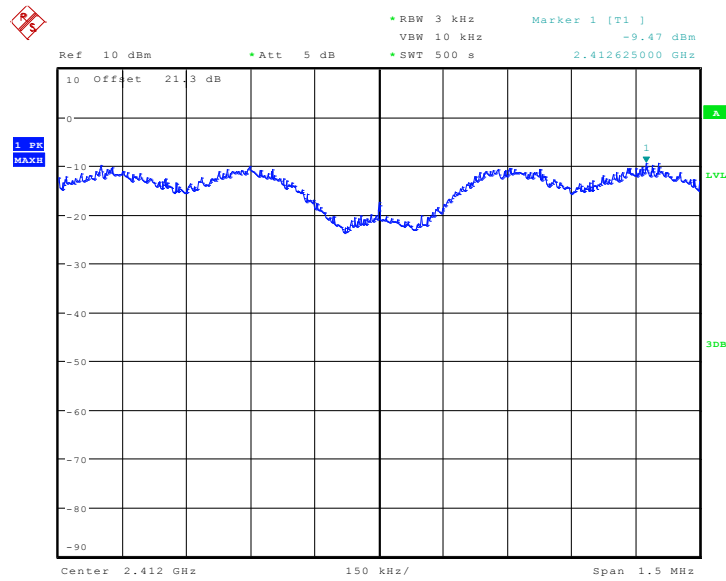
Date: 7.JUN.2011 11:15:57

Fig. 5 Power Spectral Density (802.11g, Ch 6)



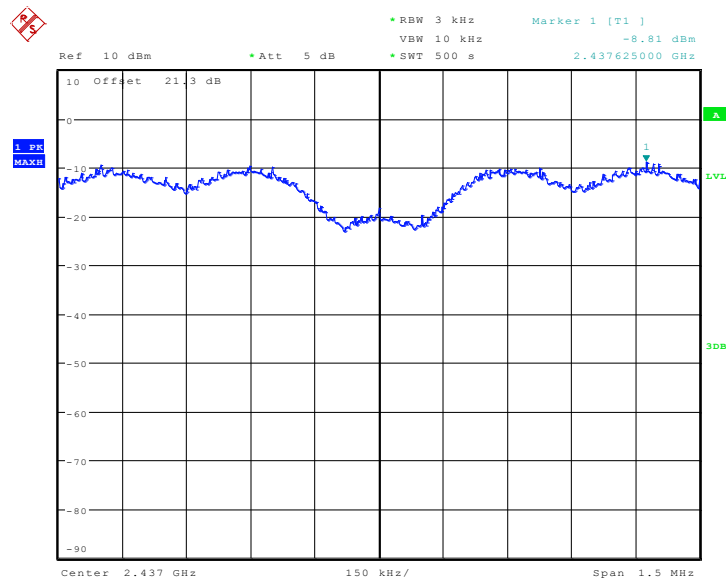
Date: 7.JUN.2011 11:29:08

Fig. 6 Power Spectral Density (802.11g, Ch 11)



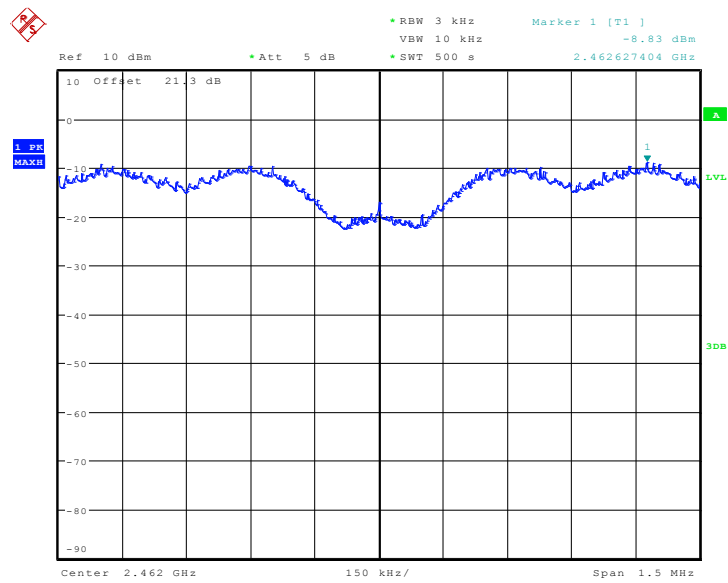
Date: 3.JUN.2011 18:33:48

Fig. 7 Power Spectral Density (802.11n-20MHz, Ch 1)



Date: 3.JUN.2011 18:23:20

Fig. 8 Power Spectral Density (802.11n-20MHz, Ch 6)



Date: 3.JUN.2011 17:33:40

Fig. 9 Power Spectral Density (802.11n-20MHz, Ch 11)

A.4. Occupied 6dB Bandwidth

Measurement Limit:

Standard	Limit (kHz)
FCC 47 CFR Part 15.247 (a)	≥ 500

The measurement is made according to ANSI C63.4 and KDB558074

Measurement Uncertainty:

Measurement Uncertainty	60.80Hz
-------------------------	---------

Measurement Result:

802.11b/g mode

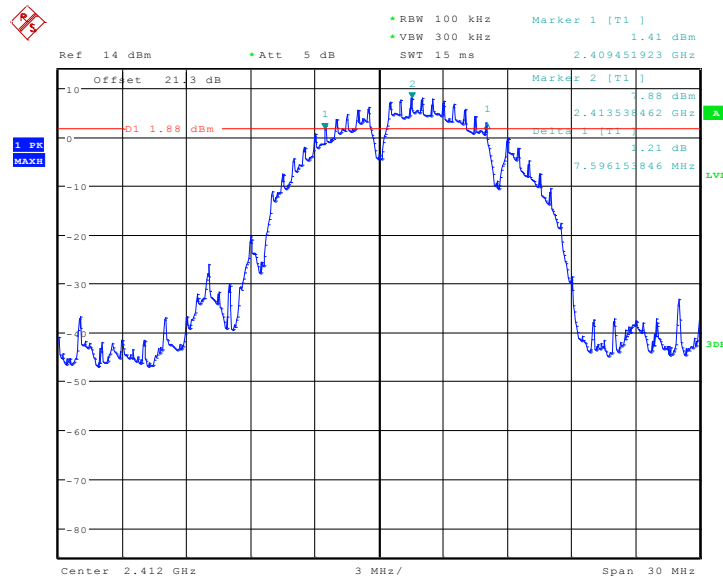
Mode	Channel	Occupied 6dB Bandwidth (kHz)		conclusion
802.11b	1	Fig.10	7596	P
	6	Fig.11	7596	P
	11	Fig.12	7596	P
802.11g	1	Fig.13	15192	P
	6	Fig.14	15192	P
	11	Fig.15	15192	P

802.11n mode

Mode	Channel	Occupied 6dB Bandwidth (kHz)		conclusion
802.11n (20MHz)	1	Fig.16	15192	P
	6	Fig.17	15192	P
	11	Fig.18	15192	P
802.11n (40MHz)	/	/	/	/
	/	/	/	/
	/	/	/	/

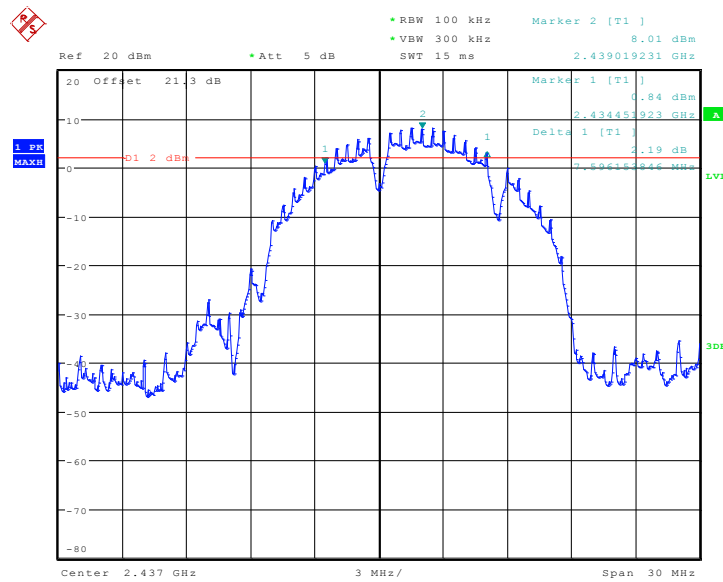
Conclusion: PASS

Test graphs as below:



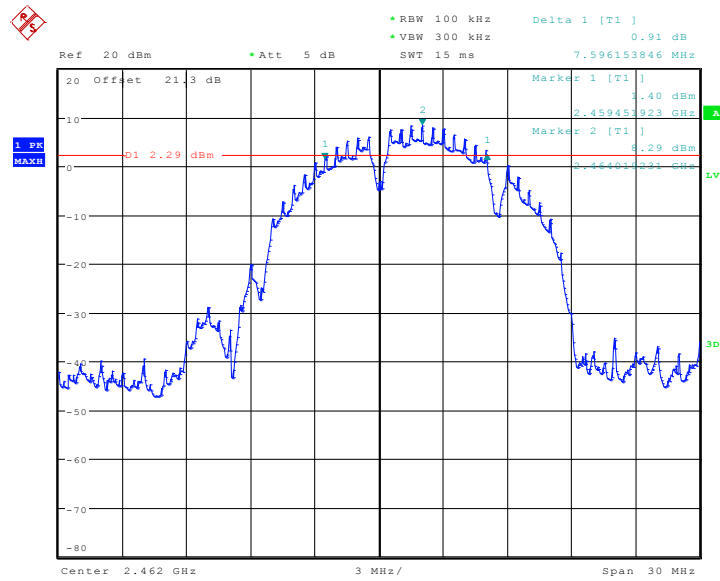
Date: 3.JUN.2011 16:55:24

Fig. 10 Occupied 6dB Bandwidth (802.11b, Ch 1)



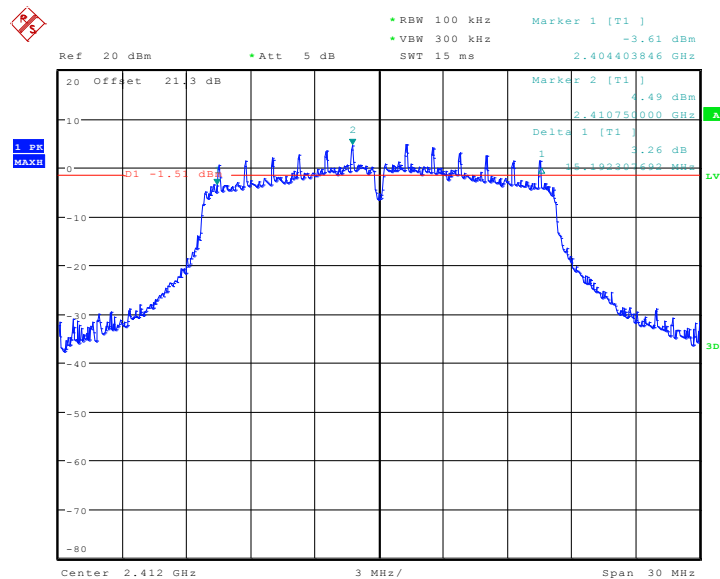
Date: 3.JUN.2011 16:57:01

Fig. 11 Occupied 6dB Bandwidth (802.11b, Ch 6)



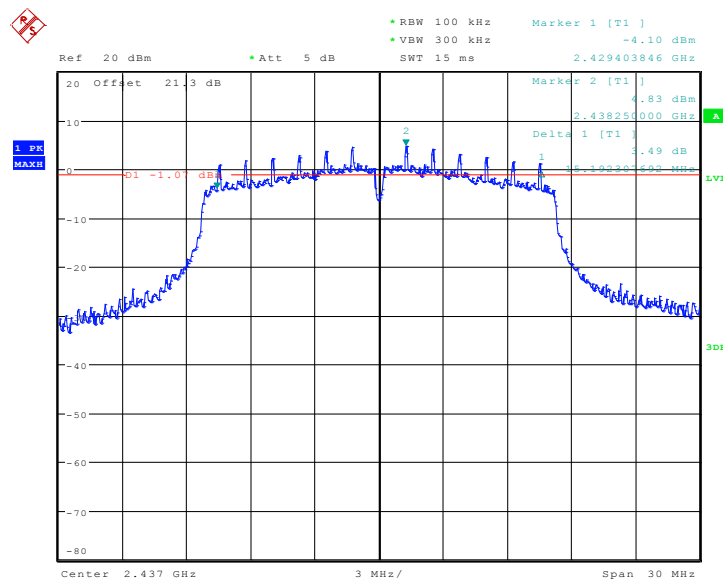
Date: 3.JUN.2011 16:58:18

Fig. 12 Occupied 6dB Bandwidth (802.11b, Ch 11)



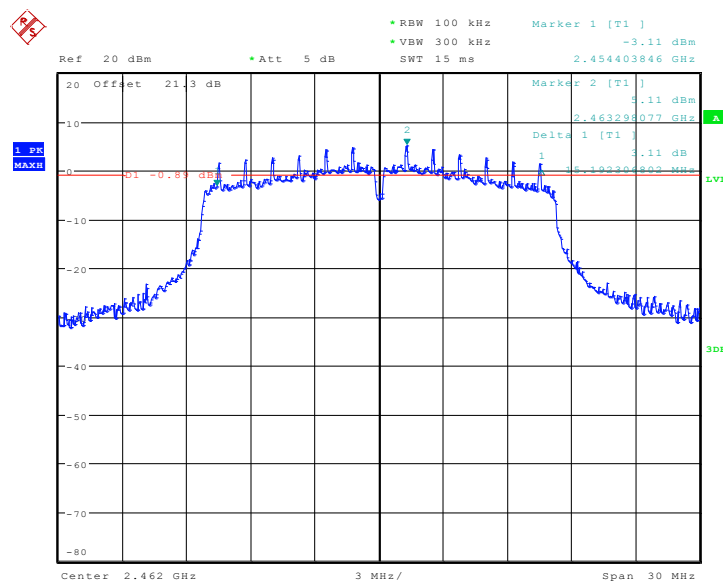
Date: 3.JUN.2011 17:03:21

Fig. 13 Occupied 6dB Bandwidth (802.11g, Ch 1)



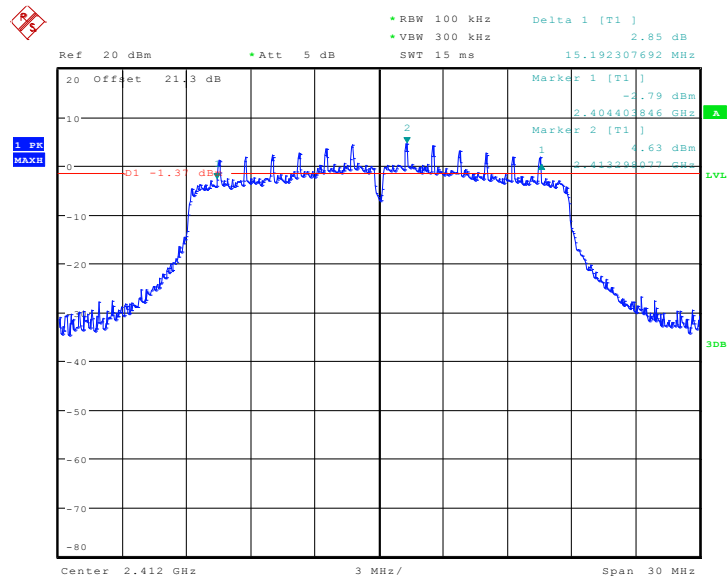
Date: 3.JUN.2011 17:01:59

Fig. 14 Occupied 6dB Bandwidth (802.11g, Ch 6)



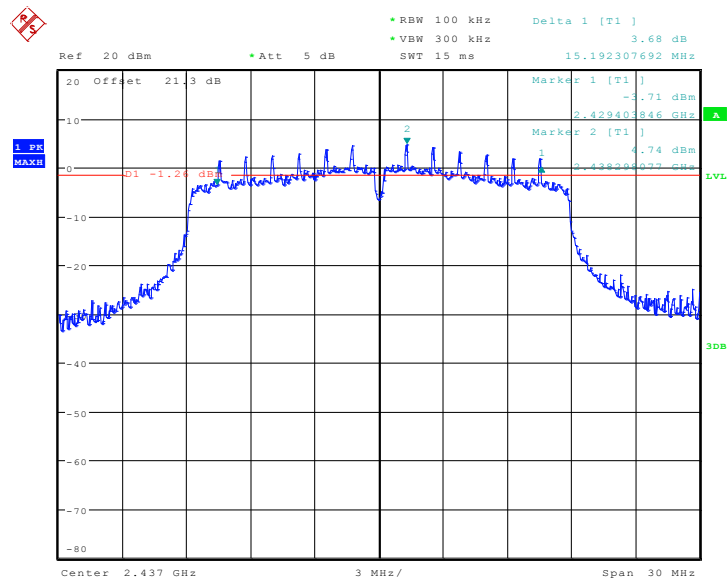
Date: 3.JUN.2011 17:00:04

Fig. 15 Occupied 6dB Bandwidth (802.11g, Ch 11)



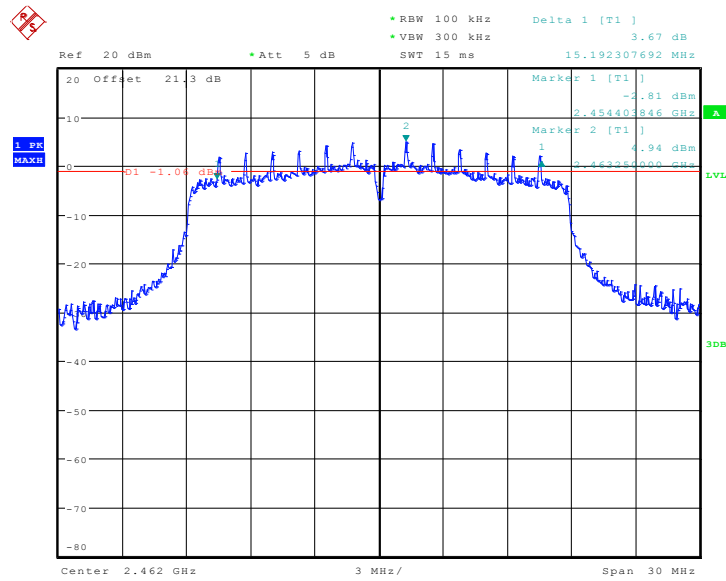
Date: 3.JUN.2011 17:05:22

Fig. 16 Occupied 6dB Bandwidth (802.11n-20MHz, Ch 1)



Date: 3.JUN.2011 17:06:38

Fig. 17 Occupied 6dB Bandwidth (802.11n-20MHz, Ch 6)



Date: 3.JUN.2011 17:07:44

Fig. 18 Occupied 6dB Bandwidth (802.11n-20MHz, Ch 11)

A.5. Band Edges Compliance

Measurement Limit:

Standard	Limit (dBc)
FCC 47 CFR Part 15.247 (d)	> 20

The measurement is made according to ANSI C63.4 and KDB558074

Measurement Uncertainty:

Measurement Uncertainty	0.75dB
-------------------------	--------

Measurement Result:

802.11b/g mode

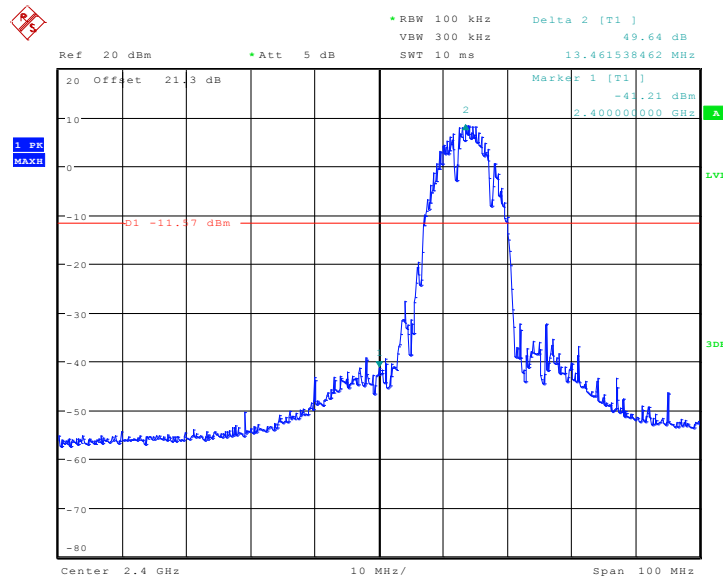
Mode	Channel	Test Results	Conclusion
802.11b	1	Fig.19	P
	11	Fig.20	P
802.11g	1	Fig.21	P
	11	Fig.22	P

802.11n mode

Mode	Channel	Test Results	Conclusion
802.11b	1	Fig.23	P
	11	Fig.24	P
802.11g	/	/	/
	/	/	/

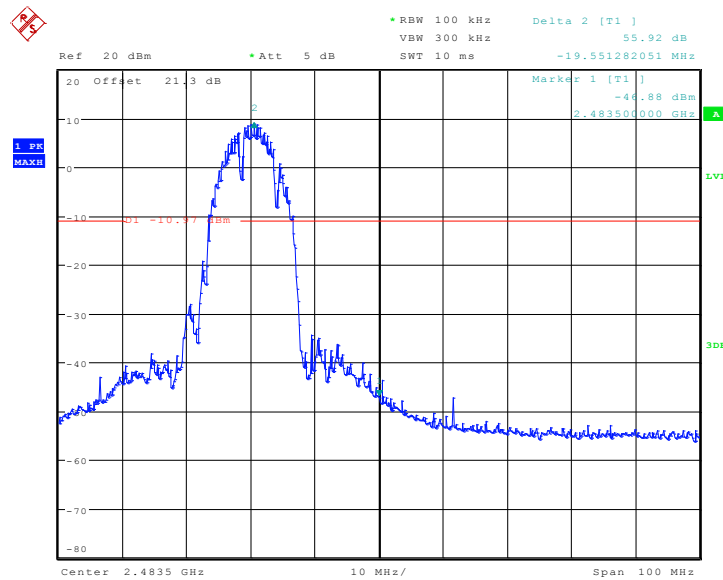
Conclusion: PASS

Test graphs as below:



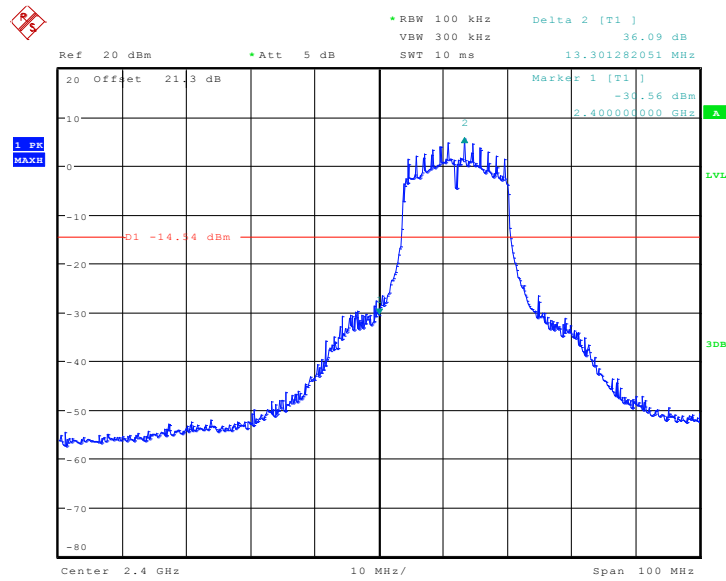
Date: 7.JUN.2011 15:10:47

Fig. 19 Band Edges (802.11b, Ch 1)



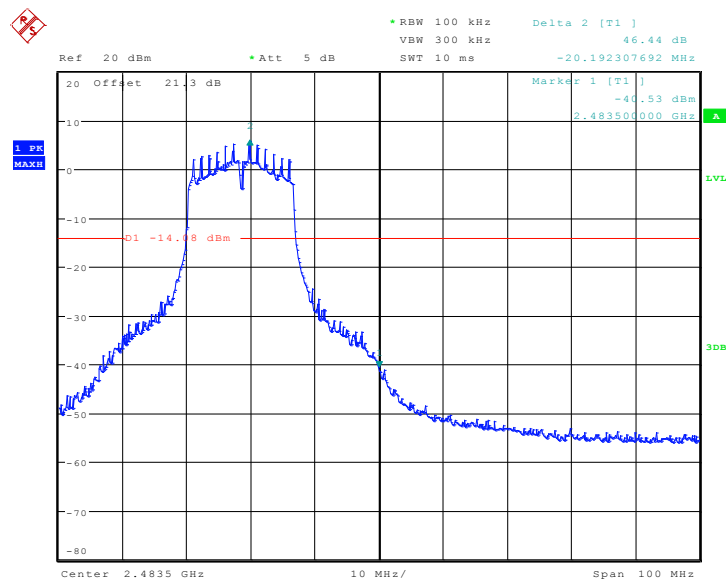
Date: 7.JUN.2011 15:02:28

Fig. 20 Band Edges (802.11b, Ch 11)



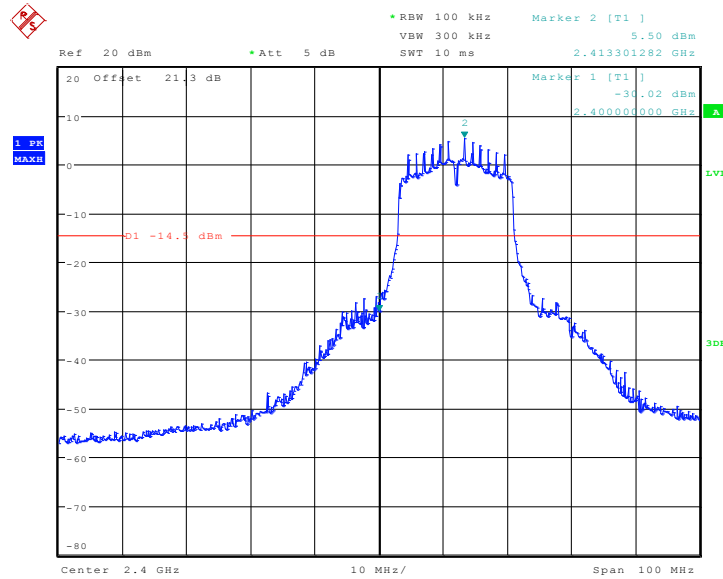
Date: 7.JUN.2011 15:09:04

Fig. 21 Band Edges (802.11g, Ch 1)



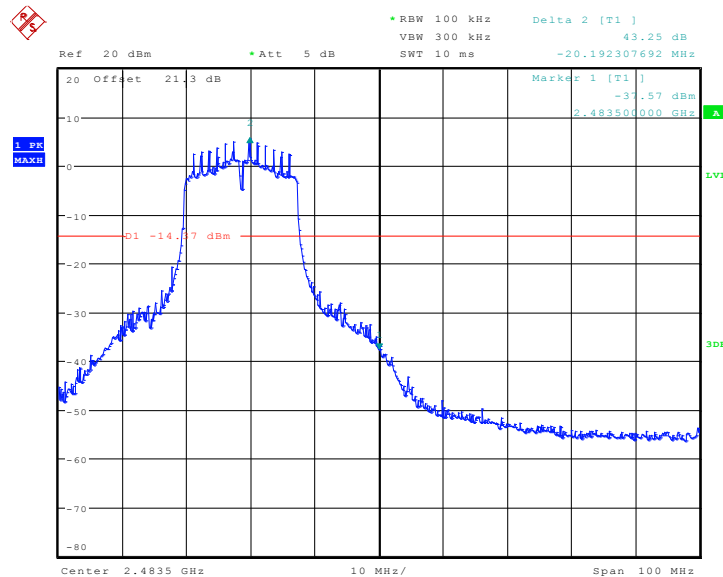
Date: 7.JUN.2011 15:04:32

Fig. 22 Band Edges (802.11g, Ch 11)



Date: 7.JUN.2011 15:15:53

Fig. 23 Band Edges (802.11n-20MHz, Ch 1)



Date: 7.JUN.2011 14:59:40

Fig. 24 Band Edges (802.11n-20MHz, Ch 11)

A.6. Transmitter Spurious Emission

A.6.1 Transmitter Spurious Emission - Conducted

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247 (d)	20dB below peak output power in 100 kHz bandwidth

The measurement is made according to ANSI C63.4 and KDB558074

Measurement Uncertainty:

Frequency Range	Uncertainty
$30\text{MHz} \leq f \leq 2\text{GHz}$	0.63
$2\text{GHz} \leq f \leq 3.6\text{GHz}$	0.82
$3.6\text{GHz} \leq f \leq 8\text{GHz}$	1.55
$8\text{GHz} \leq f \leq 20\text{GHz}$	1.86
$20\text{GHz} \leq f \leq 22\text{GHz}$	1.90
$22\text{GHz} \leq f \leq 26\text{GHz}$	2.20

Measurement Results:

802.11b/g mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11b	1	2.412 GHz	Fig.25	P
		30 MHz ~ 1 GHz	Fig.26	P
		1GHz-2.5GHz	Fig.27	P
		2.5GHz-7.5GHz	Fig.28	P
		7.5GHz-10GHz	Fig.29	P
		10GHz-15GHz	Fig.30	P
		15GHz-20GHz	Fig.31	P
		20GHz-26GHz	Fig.32	P
	6	2.437 GHz	Fig.33	P
		30 MHz ~ 1 GHz	Fig.34	P
		1GHz-2.5GHz	Fig.35	P
		2.5GHz-7.5GHz	Fig.36	P
		7.5GHz-10GHz	Fig.37	P
		10GHz-15GHz	Fig.38	P
		15GHz-20GHz	Fig.39	P
		20GHz-26GHz	Fig.40	P
	11	2.462 GHz	Fig.41	P
		30 MHz ~ 1 GHz	Fig.42	P
		1GHz-2.5GHz	Fig.43	P
		2.5GHz-7.5GHz	Fig.44	P

		7.5GHz-10GHz	Fig.45	P
		10GHz-15GHz	Fig.46	P
		15GHz-20GHz	Fig.47	P
		20GHz-26GHz	Fig.48	P
802.11g	1	2.412 GHz	Fig.49	P
		30 MHz ~ 1 GHz	Fig.50	P
		1GHz-2.5GHz	Fig.51	P
		2.5GHz-7.5GHz	Fig.52	P
		7.5GHz-10GHz	Fig.53	P
		10GHz-15GHz	Fig.54	P
		15GHz-20GHz	Fig.55	P
		20GHz-26GHz	Fig.56	P
	6	2.437 GHz	Fig.57	P
		30 MHz ~ 1 GHz	Fig.58	P
		1GHz-2.5GHz	Fig.59	P
		2.5GHz-7.5GHz	Fig.60	P
		7.5GHz-10GHz	Fig.61	P
		10GHz-15GHz	Fig.62	P
		15GHz-20GHz	Fig.63	P
		20GHz-26GHz	Fig.64	P
	11	2.462 GHz	Fig.65	P
		30 MHz ~ 1 GHz	Fig.66	P
		1GHz-2.5GHz	Fig.67	P
		2.5GHz-7.5GHz	Fig.68	P
		7.5GHz-10GHz	Fig.69	P
		10GHz-15GHz	Fig.70	P
		15GHz-20GHz	Fig.71	P
		20GHz-26GHz	Fig.72	P

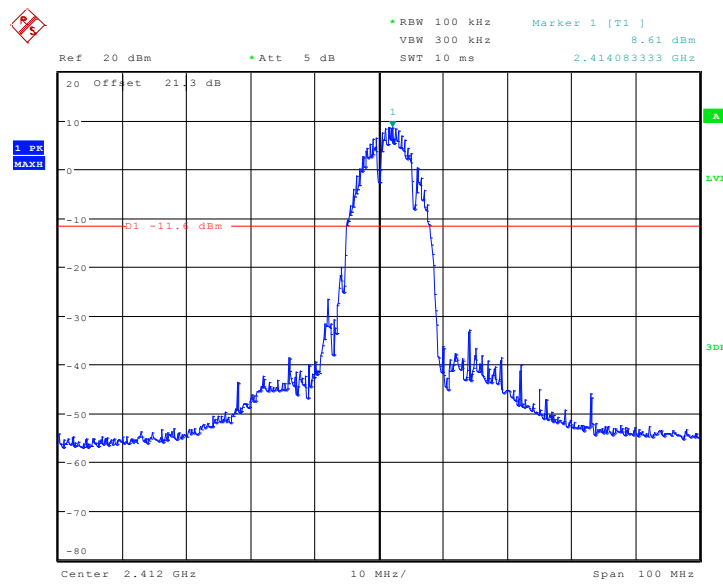
802.11b/g mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11n (20MHz)	1	2.412 GHz	Fig.73	P
		30 MHz ~ 1 GHz	Fig.74	P
		1GHz-2.5GHz	Fig.75	P
		2.5GHz-7.5GHz	Fig.76	P
		7.5GHz-10GHz	Fig.77	P
		10GHz-15GHz	Fig.78	P
		15GHz-20GHz	Fig.79	P
		20GHz-26GHz	Fig.80	P
	6	2.437 GHz	Fig.81	P
		30 MHz ~ 1 GHz	Fig.82	P
		1GHz-2.5GHz	Fig.83	P
		2.5GHz-7.5GHz	Fig.84	P

		7.5GHz-10GHz	Fig.85	P
		10GHz-15GHz	Fig.86	P
		15GHz-20GHz	Fig.87	P
		20GHz-26GHz	Fig.88	P
	11	2.462 GHz	Fig.89	P
		30 MHz ~ 1 GHz	Fig.90	P
		1GHz-2.5GHz	Fig.91	P
		2.5GHz-7.5GHz	Fig.92	P
		7.5GHz-10GHz	Fig.93	P
		10GHz-15GHz	Fig.94	P
		15GHz-20GHz	Fig.95	P
		20GHz-26GHz	Fig.96	P
802.11n (20MHz)	/	/	/	/
		/	/	/
		/	/	/
		/	/	/
		/	/	/
		/	/	/
		/	/	/
		/	/	/
	/	/	/	/
		/	/	/
		/	/	/
		/	/	/
		/	/	/
		/	/	/
		/	/	/
		/	/	/
	/	/	/	/
		/	/	/
		/	/	/
		/	/	/
		/	/	/
		/	/	/
		/	/	/
		/	/	/

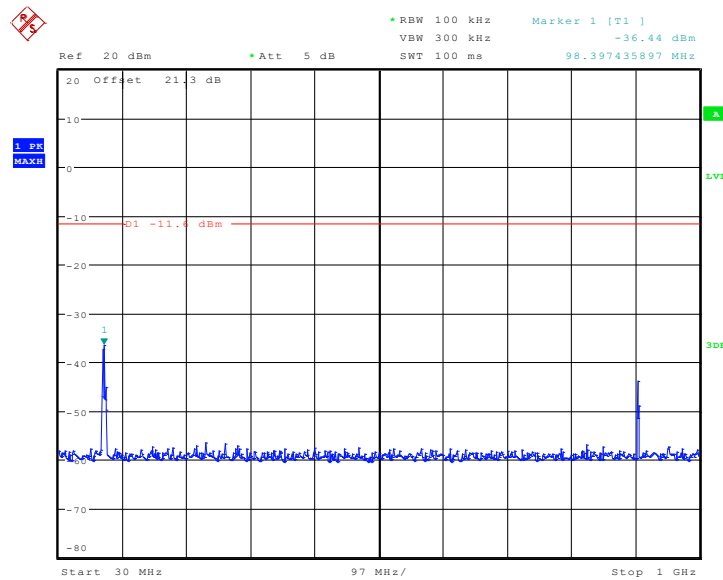
Conclusion: PASS

Test graphs as below:



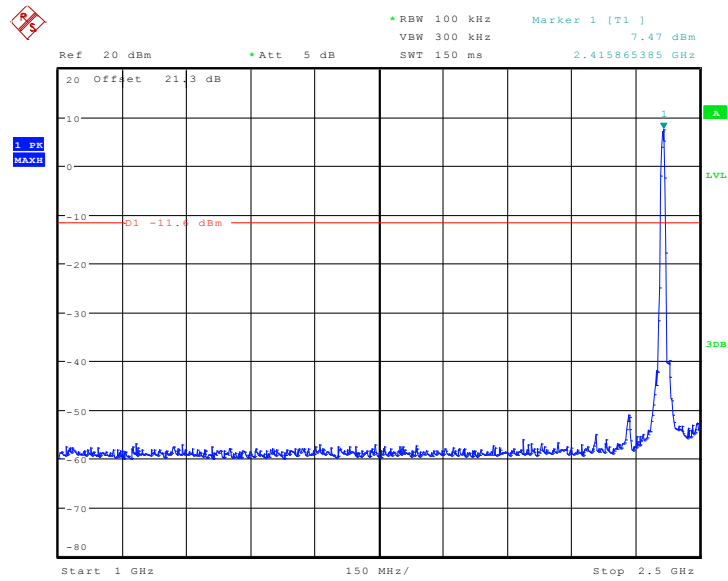
Date: 7.JUN.2011 14:08:59

Fig. 25 Conducted Spurious Emission (802.11b, Ch1, Center Frequency)



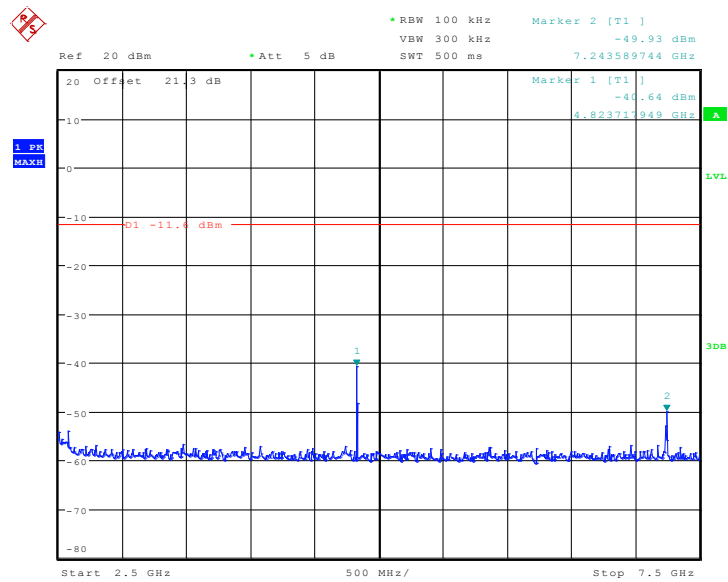
Date: 7.JUN.2011 14:09:14

Fig. 26 Conducted Spurious Emission (802.11b, Ch1, 30 MHz-1 GHz)



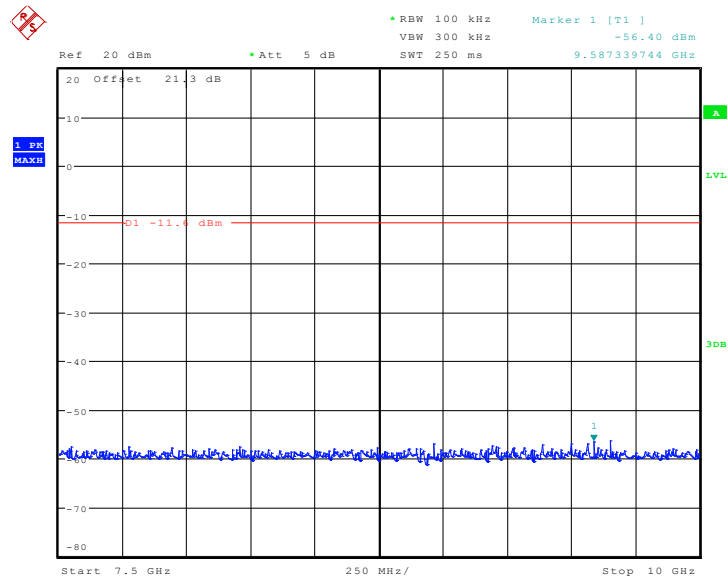
Date: 7.JUN.2011 14:09:33

Fig. 27 Conducted Spurious Emission (802.11b, Ch1, 1 GHz-2.5 GHz)



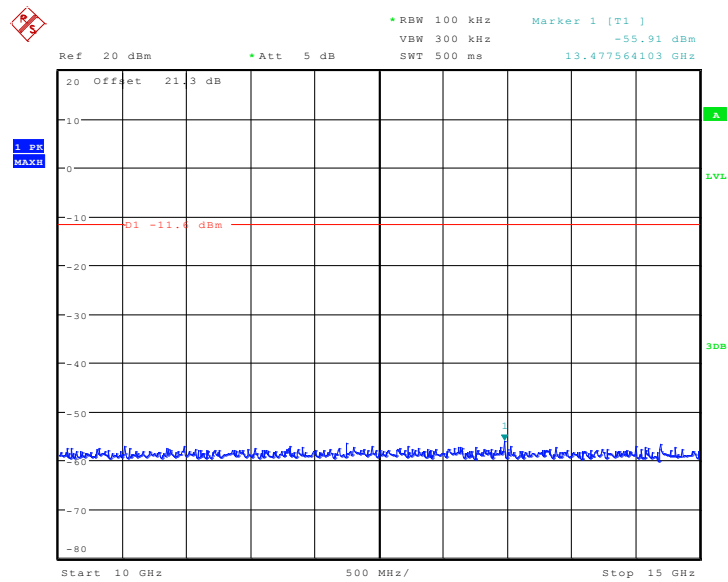
Date: 7.JUN.2011 14:09:49

Fig. 28 Conducted Spurious Emission (802.11b, Ch1, 2.5 GHz-7.5 GHz)



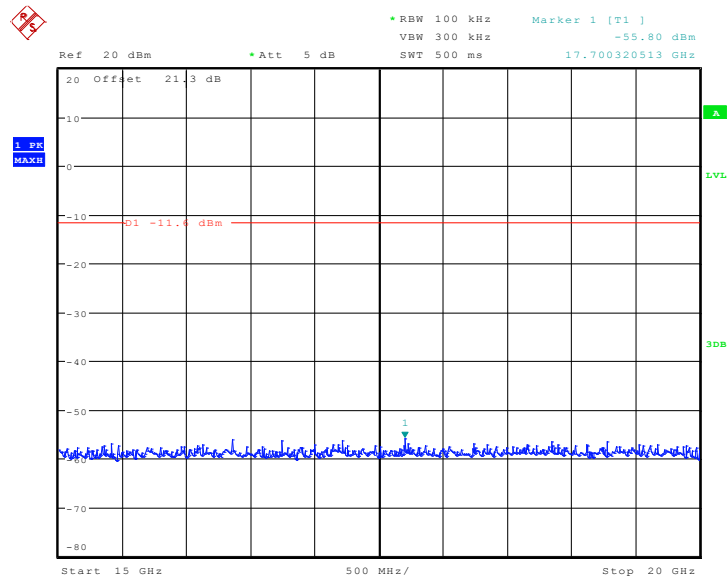
Date: 7.JUN.2011 14:10:08

Fig. 29 Conducted Spurious Emission (802.11b, Ch1, 7.5 GHz-10 GHz)



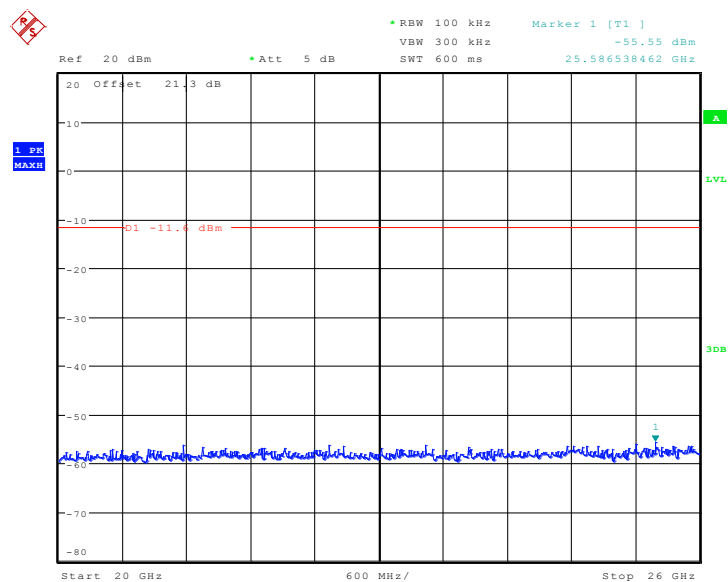
Date: 7.JUN.2011 14:10:31

Fig. 30 Conducted Spurious Emission (802.11b, Ch1, 10 GHz-15 GHz)



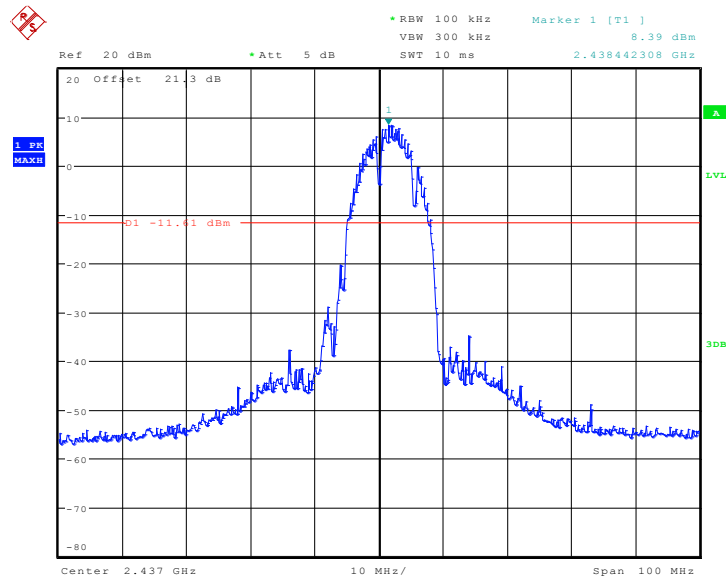
Date: 7.JUN.2011 14:10:48

Fig. 31 Conducted Spurious Emission (802.11b, Ch1, 15 GHz-20 GHz)



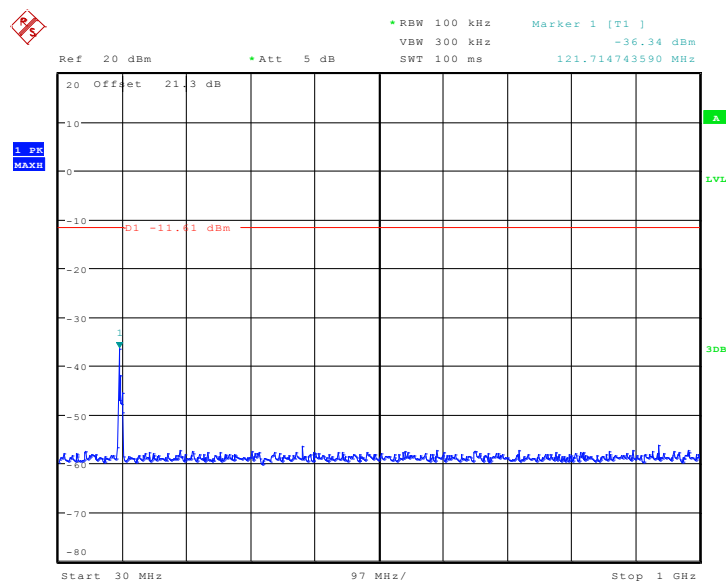
Date: 7.JUN.2011 14:11:03

Fig. 32 Conducted Spurious Emission (802.11b, Ch1, 20 GHz-26 GHz)



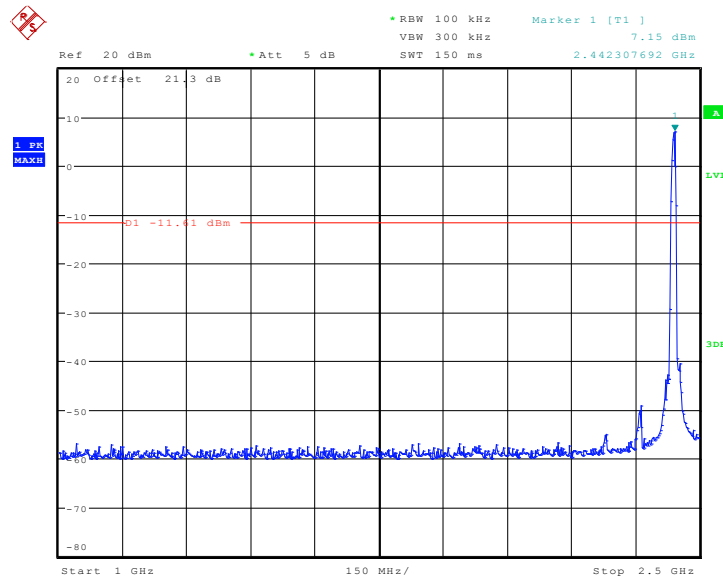
Date: 7.JUN.2011 14:11:56

Fig. 33 Conducted Spurious Emission (802.11b, Ch6, Center Frequency)



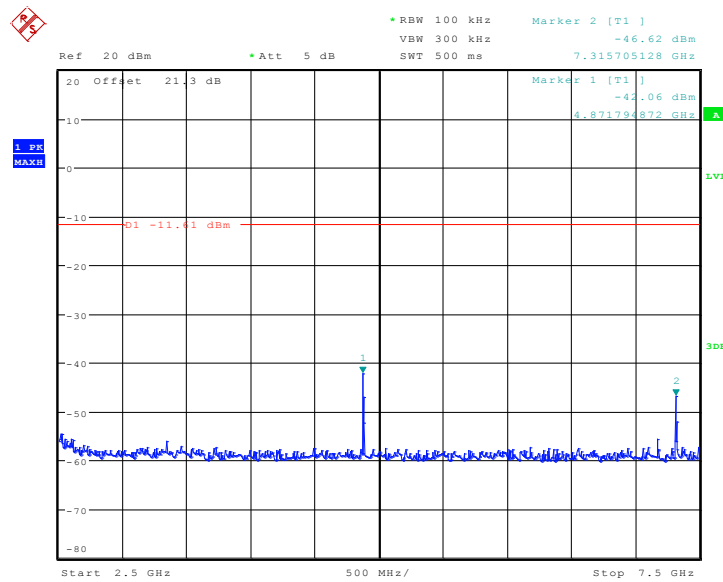
Date: 7.JUN.2011 14:12:33

Fig. 34 Conducted Spurious Emission (802.11b, Ch6, 30 MHz-1 GHz)



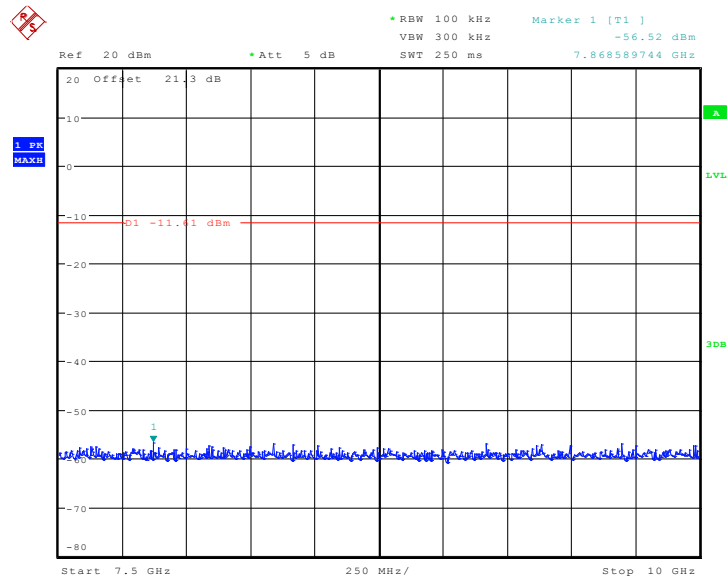
Date: 7.JUN.2011 14:12:49

Fig. 35 Conducted Spurious Emission (802.11b, Ch6, 1 GHz-2.5 GHz)



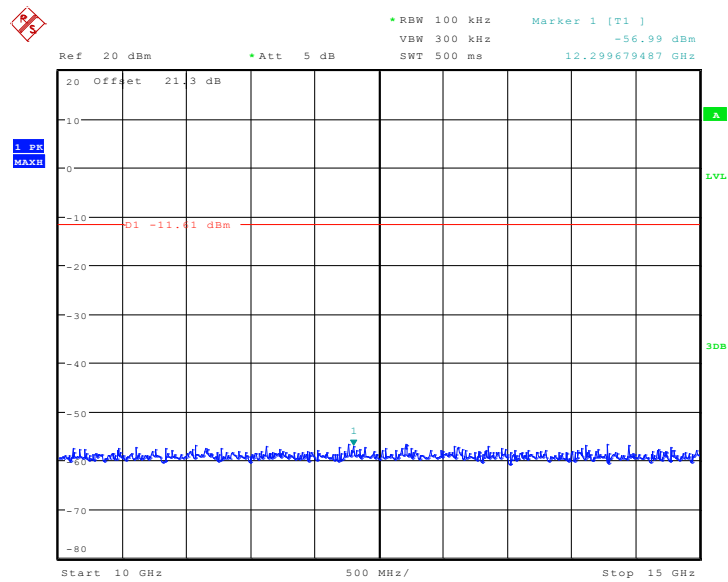
Date: 7.JUN.2011 14:13:08

Fig. 36 Conducted Spurious Emission (802.11b, Ch6, 2.5 GHz-7.5 GHz)



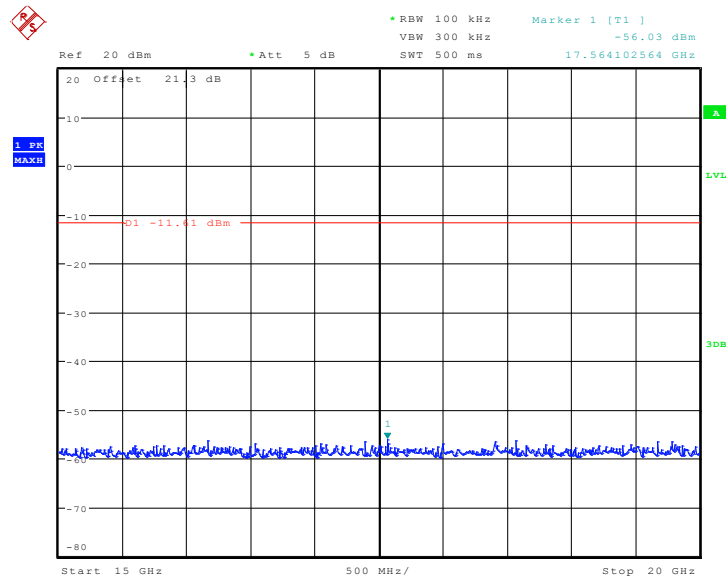
Date: 7.JUN.2011 14:13:29

Fig. 37 Conducted Spurious Emission (802.11b, Ch6, 7.5 GHz-10 GHz)



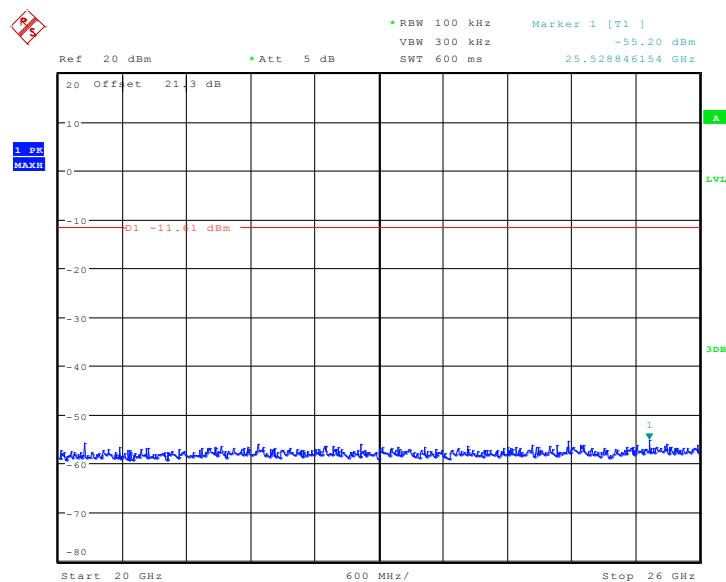
Date: 7.JUN.2011 14:13:44

Fig. 38 Conducted Spurious Emission (802.11b, Ch6, 10 GHz-15 GHz)



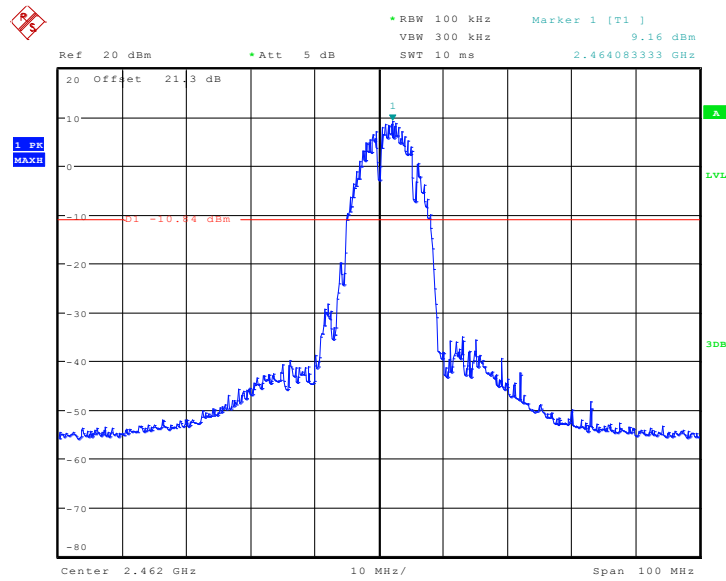
Date: 7.JUN.2011 14:14:02

Fig. 39 Conducted Spurious Emission (802.11b, Ch6, 15 GHz-20 GHz)



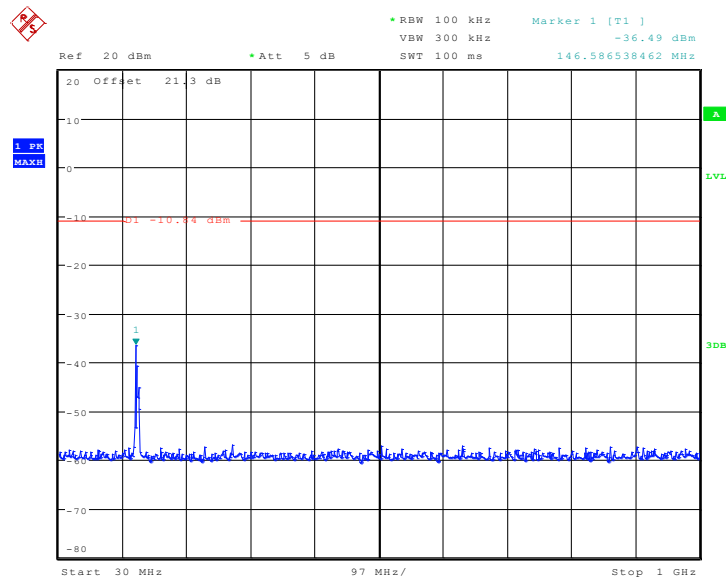
Date: 7.JUN.2011 14:14:27

Fig. 40 Conducted Spurious Emission (802.11b, Ch6, 20 GHz-26 GHz)



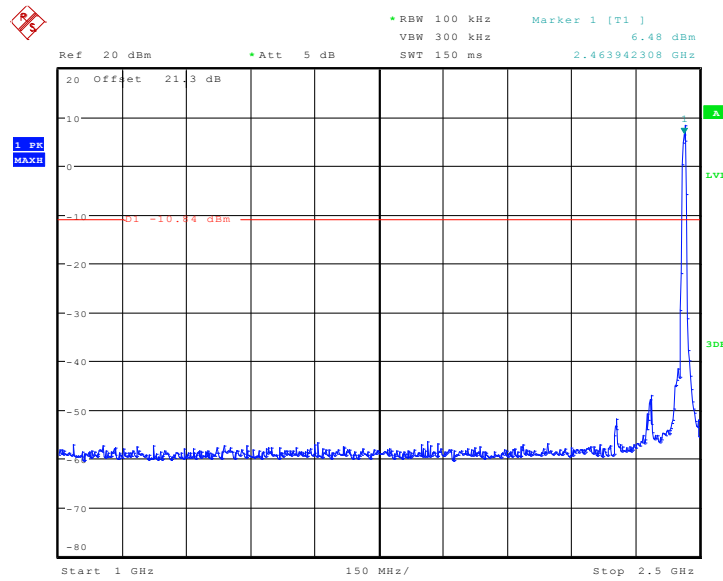
Date: 7.JUN.2011 14:15:36

Fig. 41 Conducted Spurious Emission (802.11b, Ch11, Center Frequency)



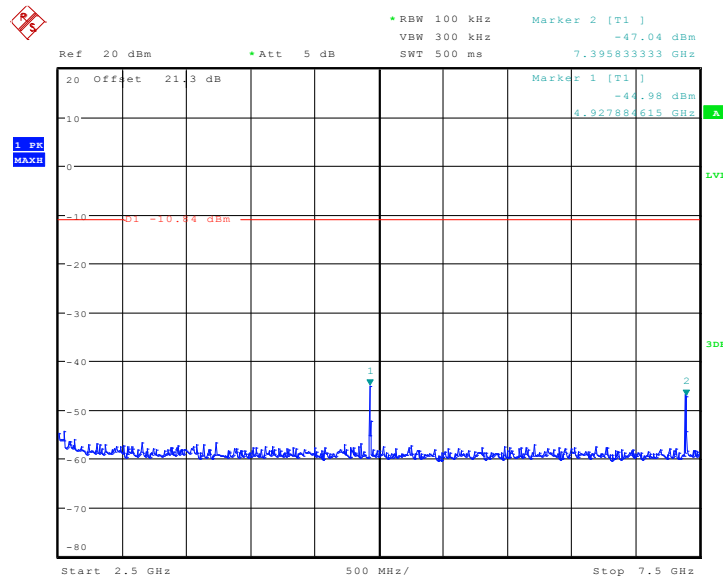
Date: 7.JUN.2011 14:15:48

Fig. 42 Conducted Spurious Emission (802.11b, Ch11, 30 MHz-1 GHz)



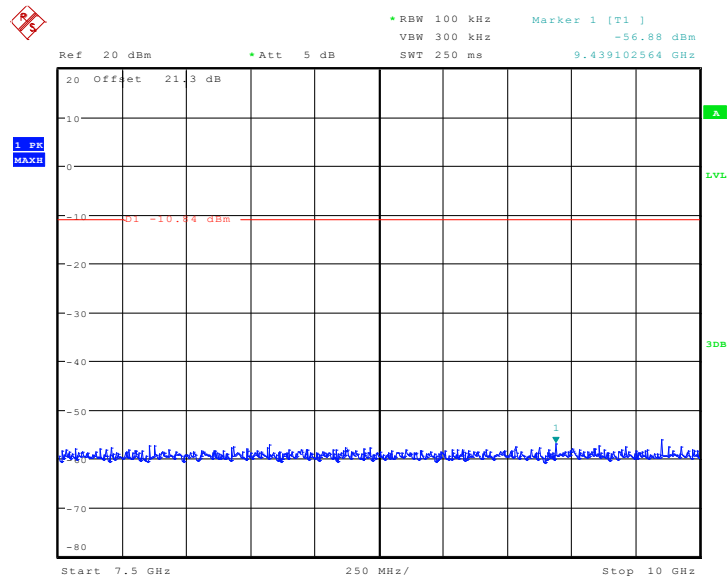
Date: 7.JUN.2011 14:16:02

Fig. 43 Conducted Spurious Emission (802.11b, Ch11, 1 GHz-2.5 GHz)



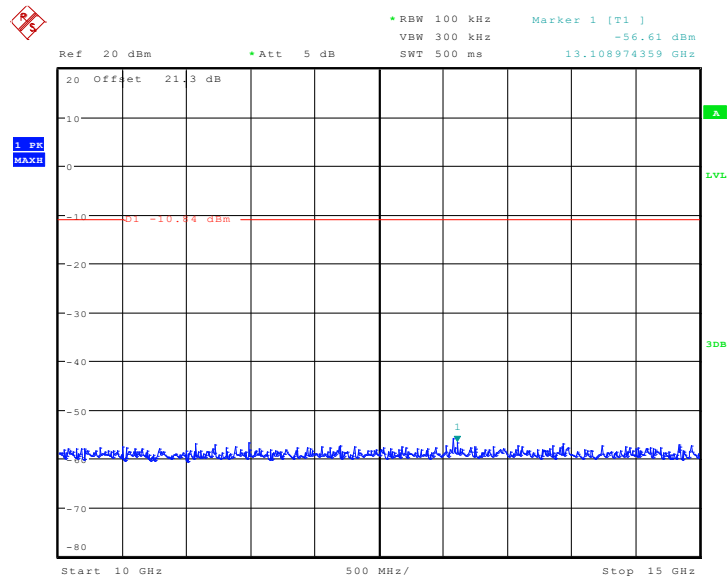
Date: 7.JUN.2011 14:16:23

Fig. 44 Conducted Spurious Emission (802.11b, Ch11, 2.5 GHz-7.5 GHz)



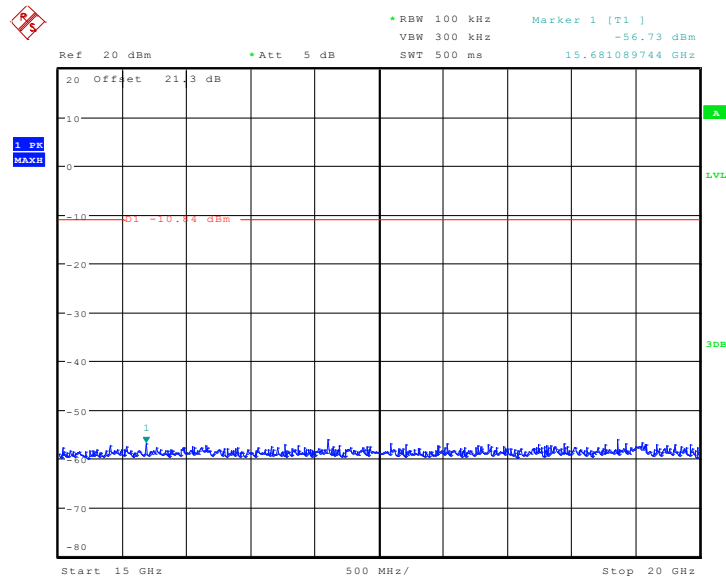
Date: 7.JUN.2011 14:16:42

Fig. 45 Conducted Spurious Emission (802.11b, Ch11, 7.5 GHz-10 GHz)



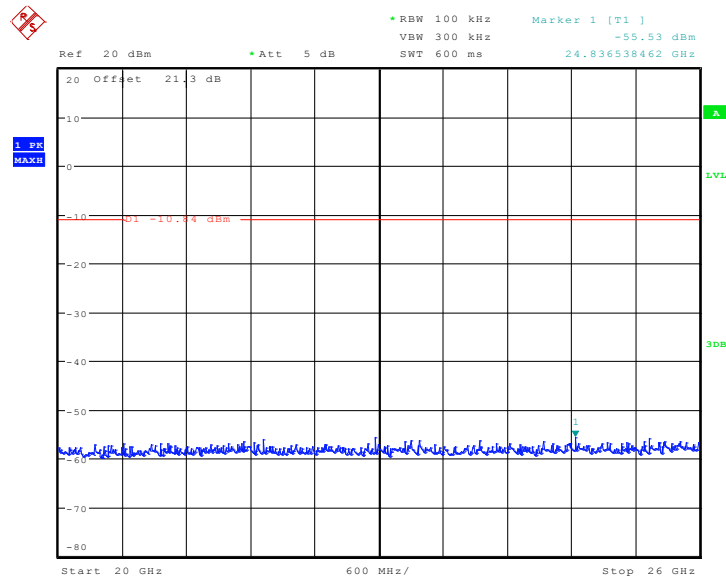
Date: 7.JUN.2011 14:16:58

Fig. 46 Conducted Spurious Emission (802.11b, Ch11, 10 GHz-15 GHz)



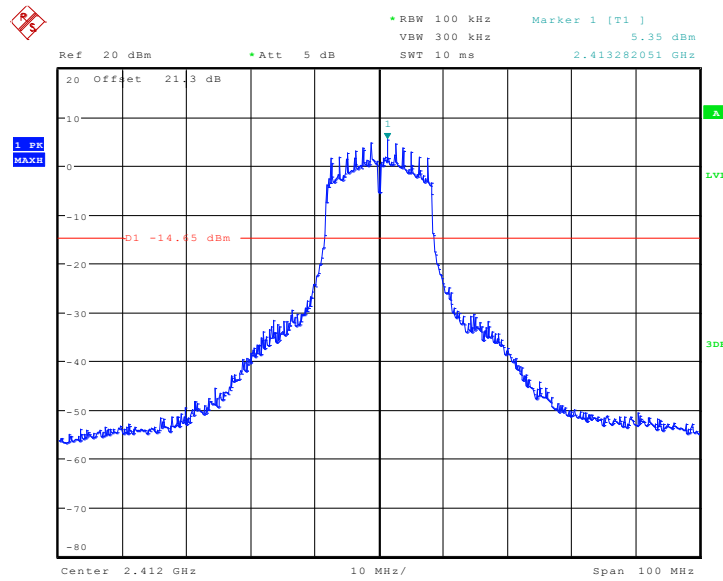
Date: 7.JUN.2011 14:17:16

Fig. 47 Conducted Spurious Emission (802.11b, Ch11, 15 GHz-20 GHz)



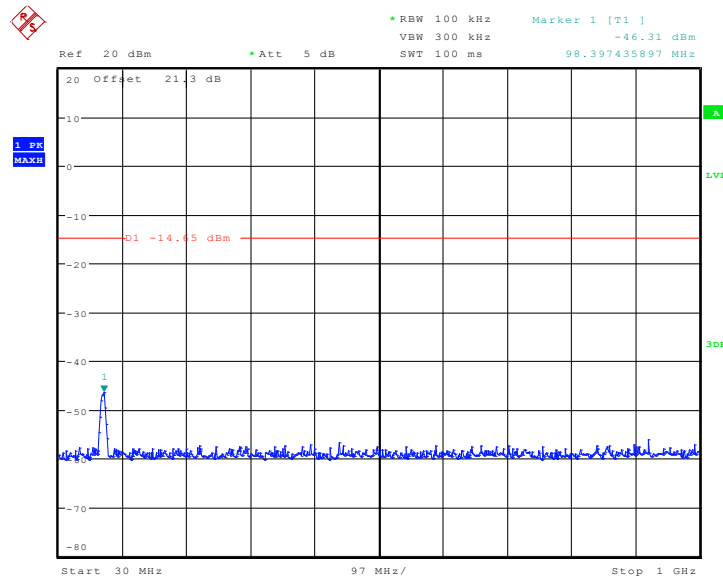
Date: 7.JUN.2011 14:17:33

Fig. 48 Conducted Spurious Emission (802.11b, Ch11, 20 GHz-26 GHz)



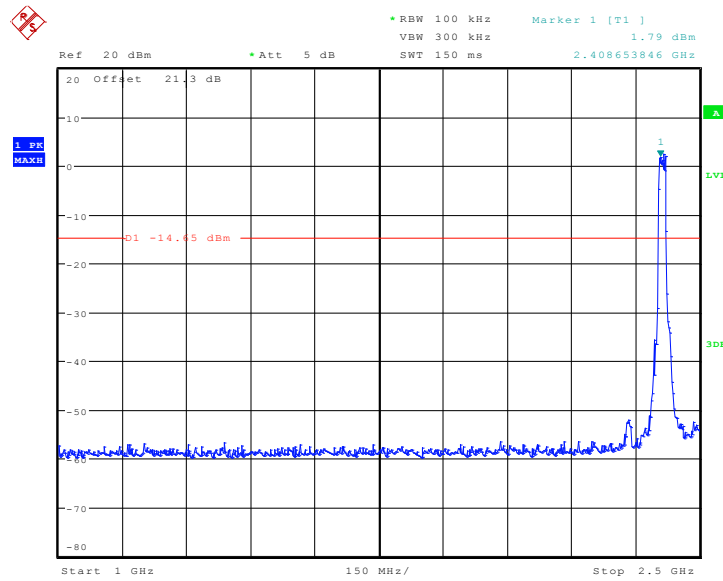
Date: 7.JUN.2011 14:19:35

Fig. 49 Conducted Spurious Emission (802.11g, Ch1, Center Frequency)



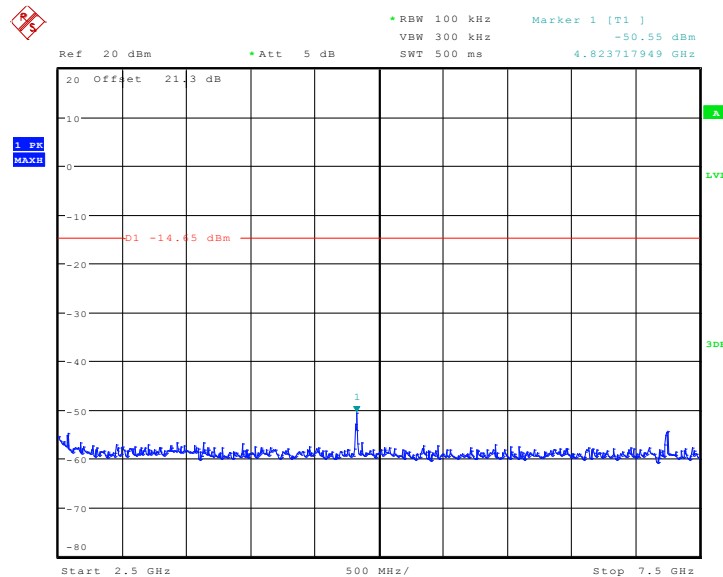
Date: 7.JUN.2011 14:19:55

Fig. 50 Conducted Spurious Emission (802.11g, Ch1, 30 MHz-1 GHz)



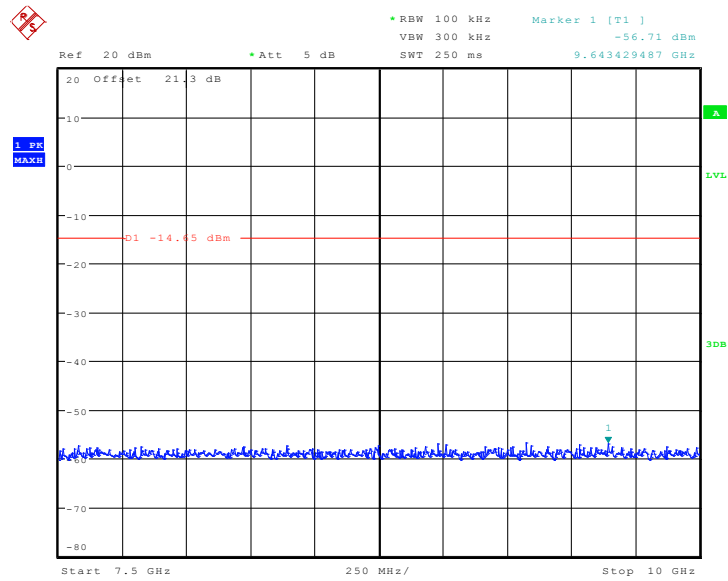
Date: 7.JUN.2011 14:20:26

Fig. 51 Conducted Spurious Emission ((802.11g, Ch1, 1 GHz-2.5 GHz)



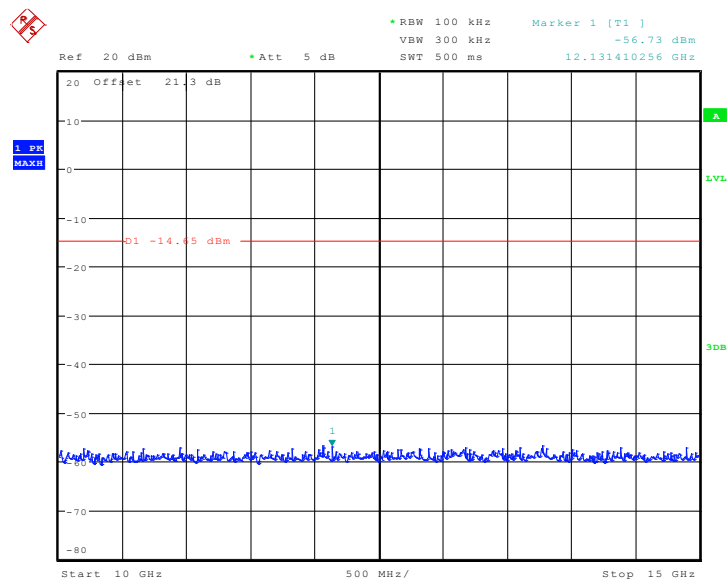
Date: 7.JUN.2011 14:20:47

Fig. 52 Conducted Spurious Emission ((802.11g, Ch1, 2.5 GHz-7.5 GHz)



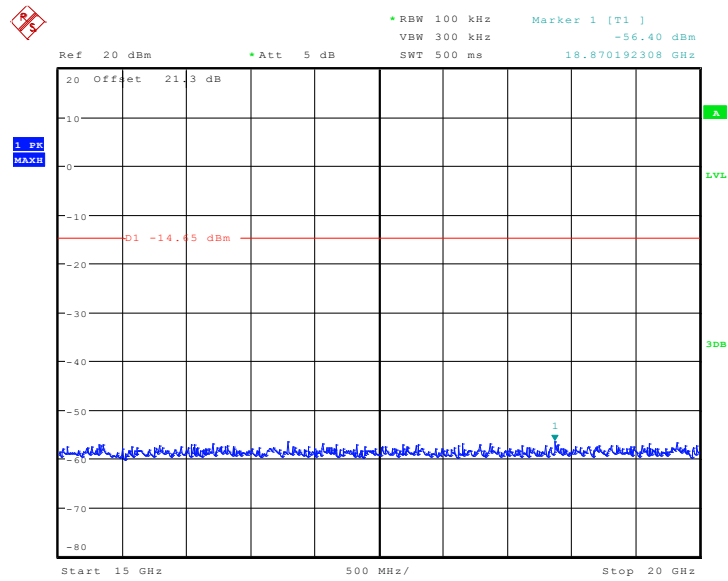
Date: 7.JUN.2011 14:21:13

Fig. 53 Conducted Spurious Emission ((802.11g, Ch1, 7.5 GHz-10 GHz)



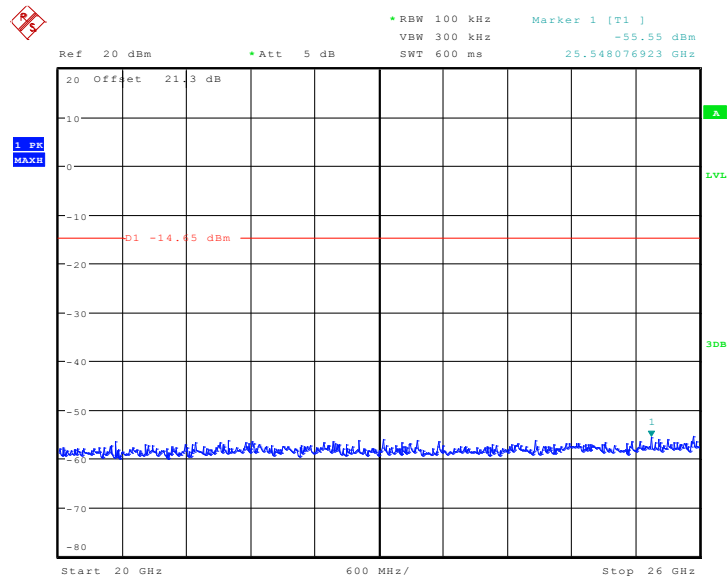
Date: 7.JUN.2011 14:21:33

Fig. 54 Conducted Spurious Emission ((802.11g, Ch1, 10 GHz-15 GHz)



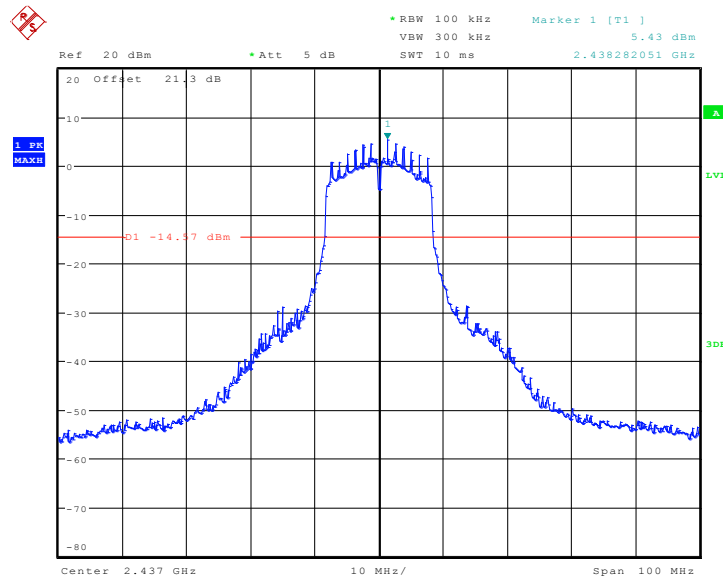
Date: 7.JUN.2011 14:21:50

Fig. 55 Conducted Spurious Emission ((802.11g, Ch1, 15 GHz-20 GHz)



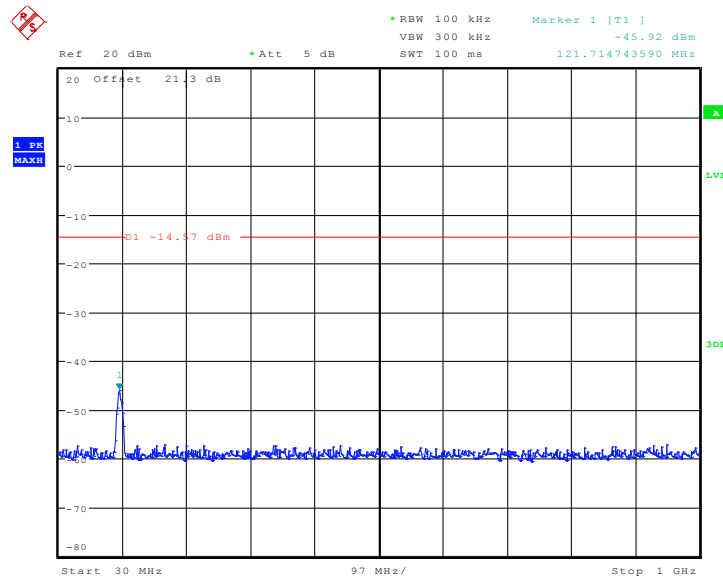
Date: 7.JUN.2011 14:22:08

Fig. 56 Conducted Spurious Emission ((802.11g, Ch1, 20 GHz-26 GHz)



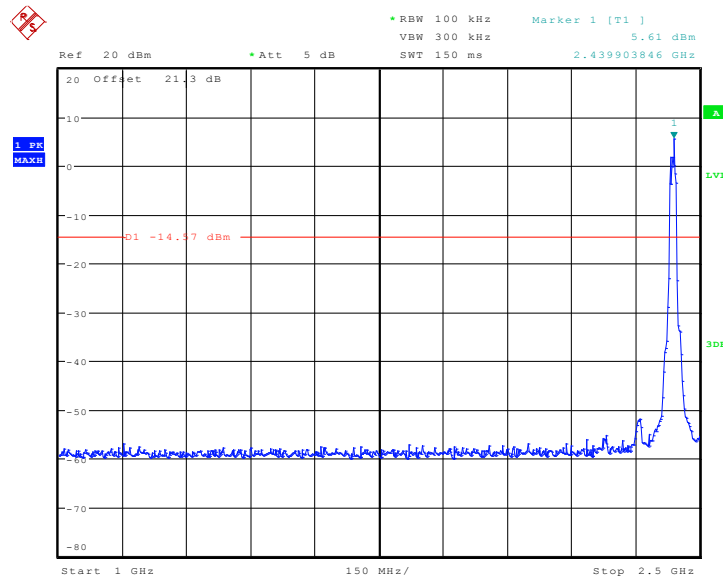
Date: 7.JUN.2011 14:25:33

Fig. 57 Conducted Spurious Emission ((802.11g, Ch6, Center Frequency)



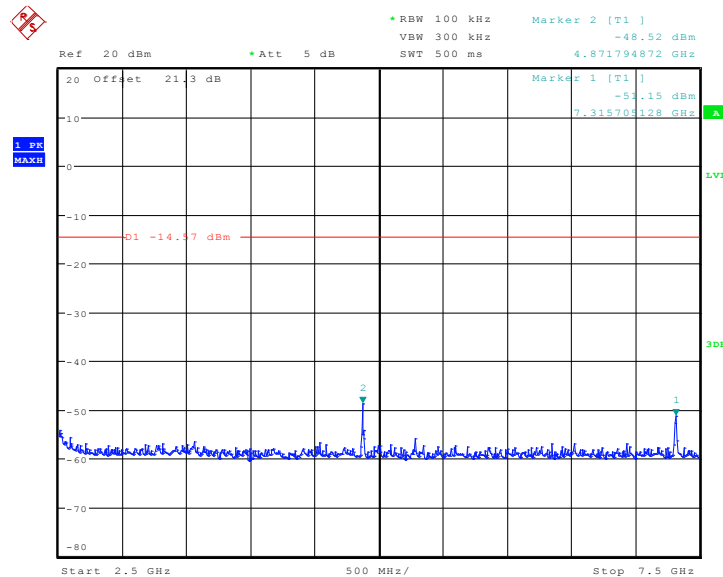
Date: 7.JUN.2011 14:25:59

Fig. 58 Conducted Spurious Emission ((802.11g, Ch6, 30 MHz-1 GHz)



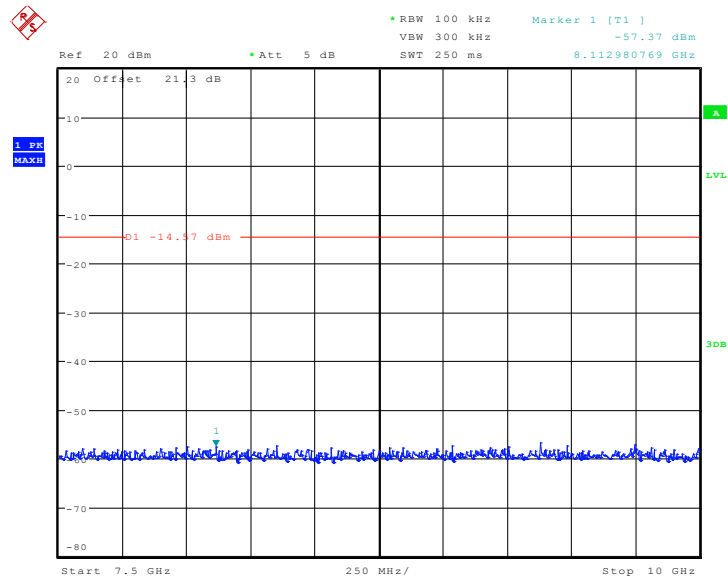
Date: 7.JUN.2011 14:26:16

Fig. 59 Conducted Spurious Emission ((802.11g, Ch6, 1 GHz-2.5 GHz)



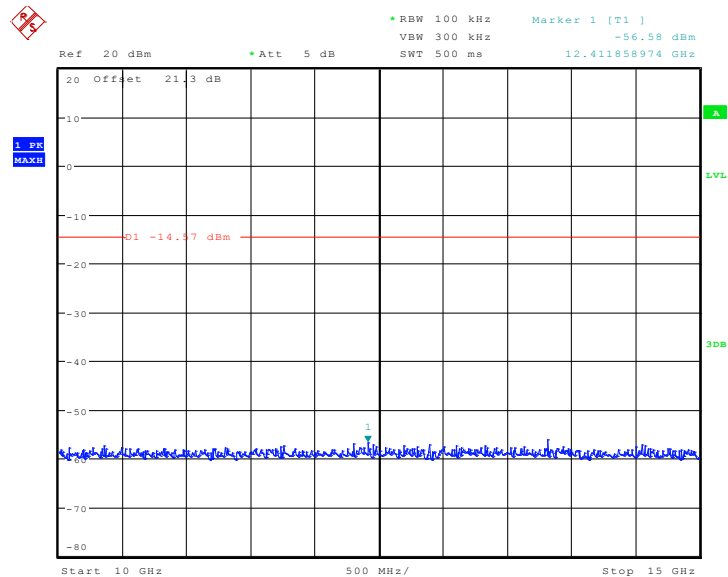
Date: 7.JUN.2011 14:26:37

Fig. 60 Conducted Spurious Emission ((802.11g, Ch6, 2.5 GHz-7.5 GHz)



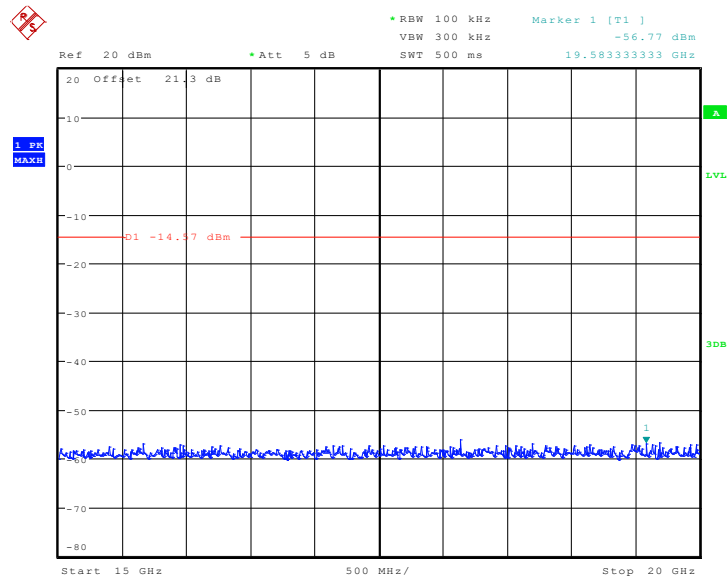
Date: 7.JUN.2011 14:26:56

Fig. 61 Conducted Spurious Emission ((802.11g, Ch6, 7.5 GHz-10 GHz)



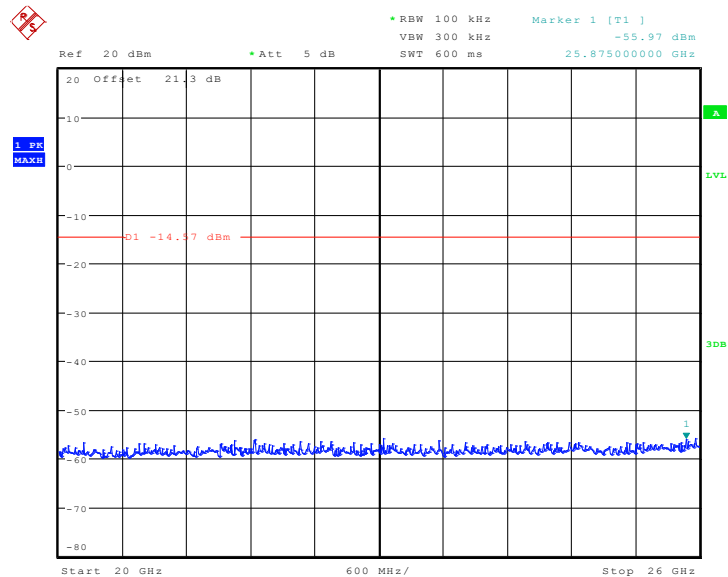
Date: 7.JUN.2011 14:27:12

Fig. 62 Conducted Spurious Emission ((802.11g, Ch6, 10 GHz-15 GHz)



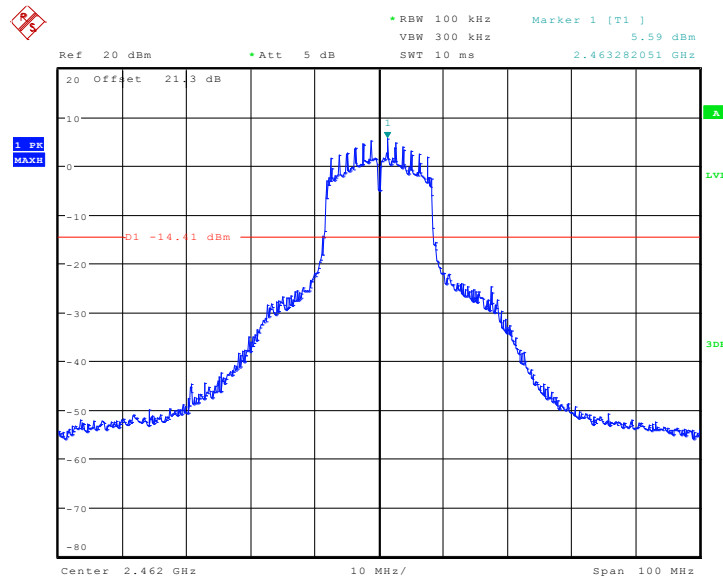
Date: 7.JUN.2011 14:27:26

Fig. 63 Conducted Spurious Emission ((802.11g, Ch6, 15 GHz-20 GHz)



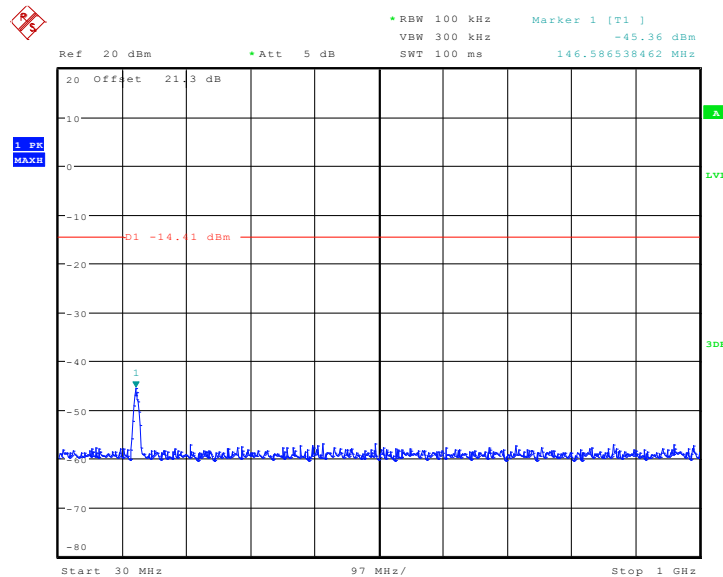
Date: 7.JUN.2011 14:27:40

Fig. 64 Conducted Spurious Emission ((802.11g, Ch6, 20 GHz-26 GHz)



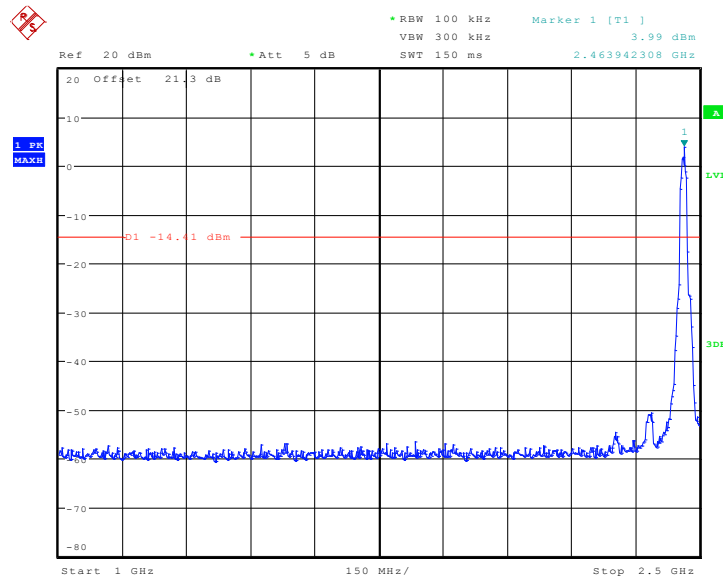
Date: 7.JUN.2011 14:30:06

Fig. 65 Conducted Spurious Emission ((802.11g, Ch11, Center Frequency)



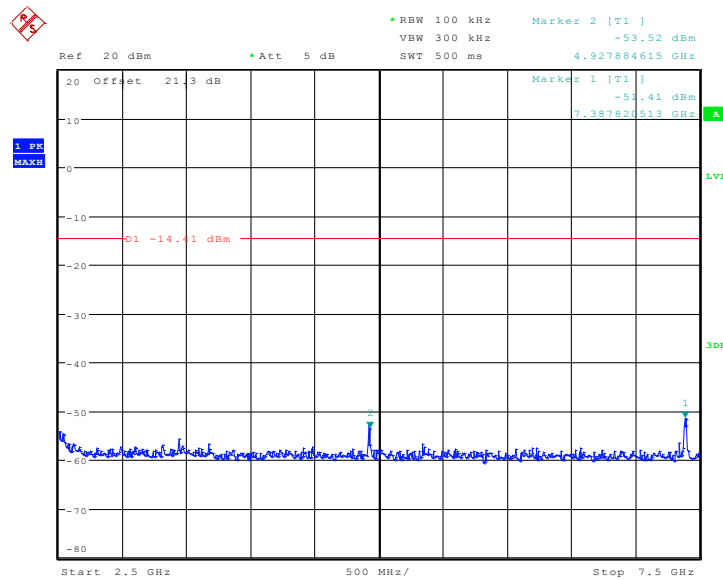
Date: 7.JUN.2011 14:30:21

Fig. 66 Conducted Spurious Emission ((802.11g, Ch11, 30 MHz-1 GHz)



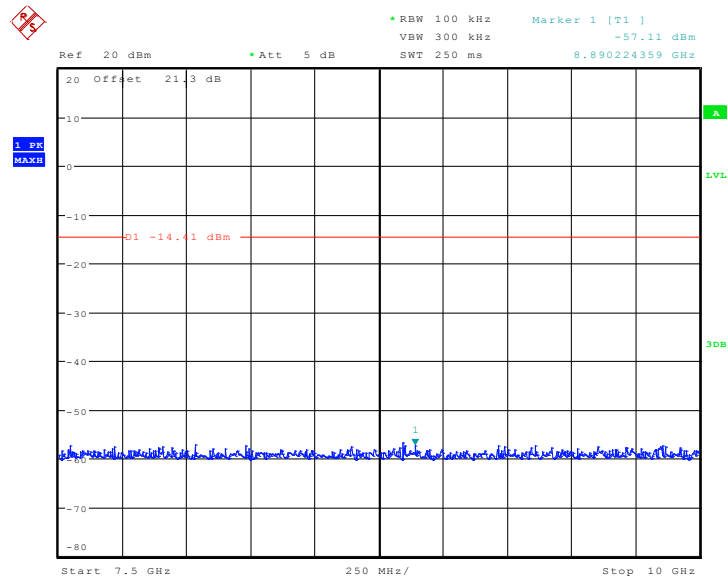
Date: 7.JUN.2011 14:30:34

Fig. 67 Conducted Spurious Emission ((802.11g, Ch11, 1 GHz-2.5 GHz)



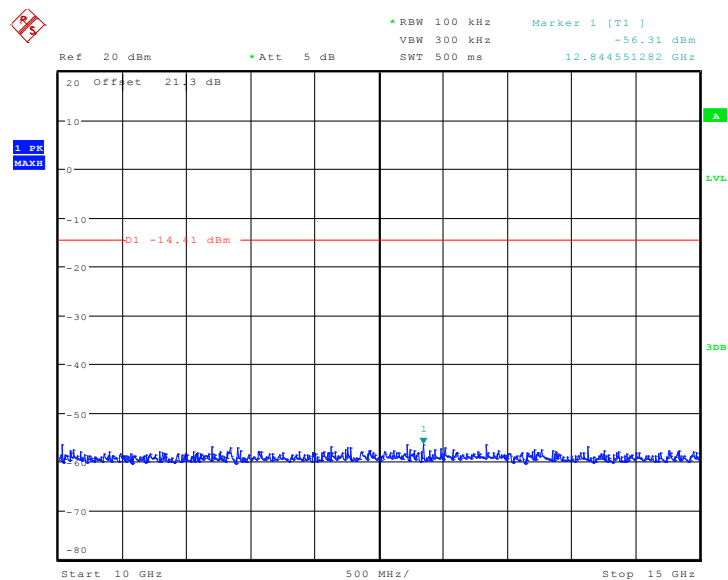
Date: 7.JUN.2011 14:30:53

Fig. 68 Conducted Spurious Emission ((802.11g, Ch11, 2.5 GHz-7.5 GHz)



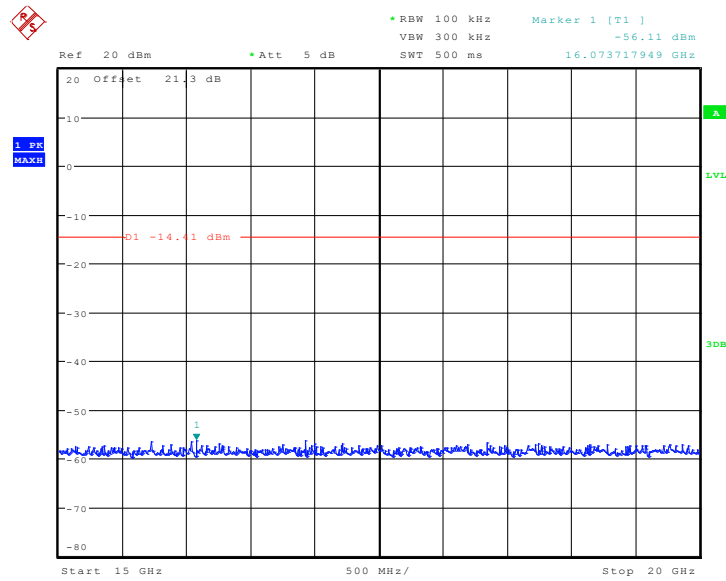
Date: 7.JUN.2011 14:31:12

Fig. 69 Conducted Spurious Emission ((802.11g, Ch11, 7.5 GHz-10 GHz)



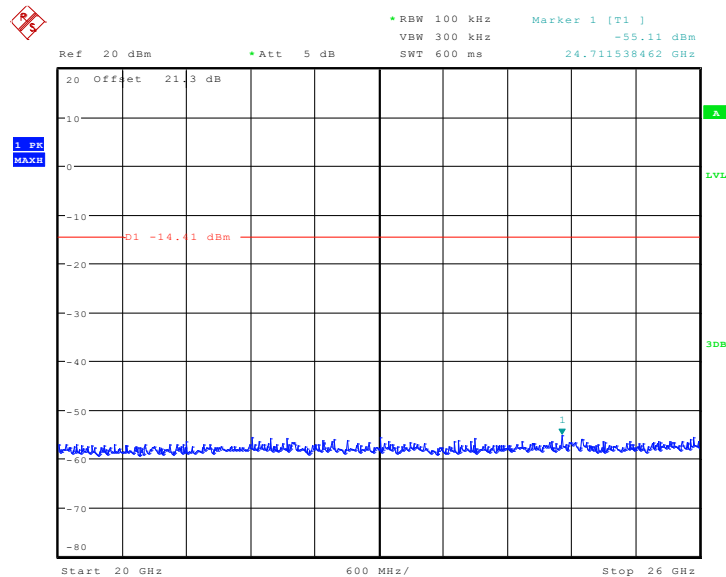
Date: 7.JUN.2011 14:31:28

Fig. 70 Conducted Spurious Emission ((802.11g, Ch11, 10 GHz-15 GHz)



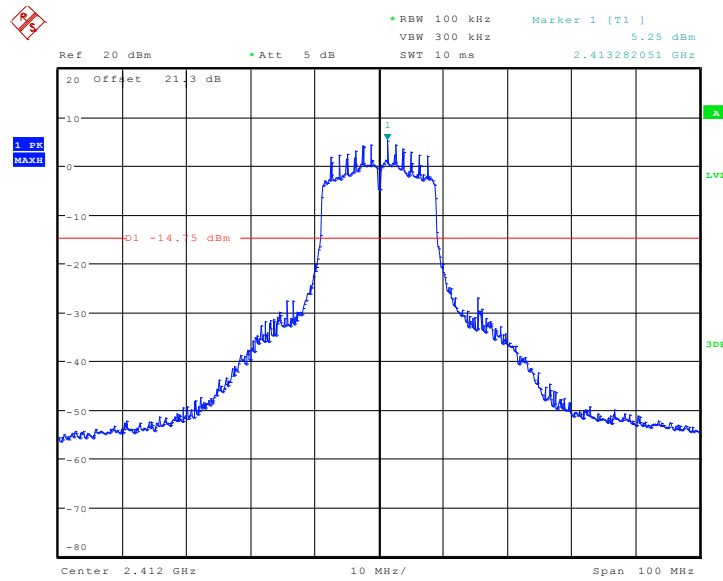
Date: 7.JUN.2011 14:31:51

Fig. 71 Conducted Spurious Emission ((802.11g, Ch11, 15 GHz-20 GHz)



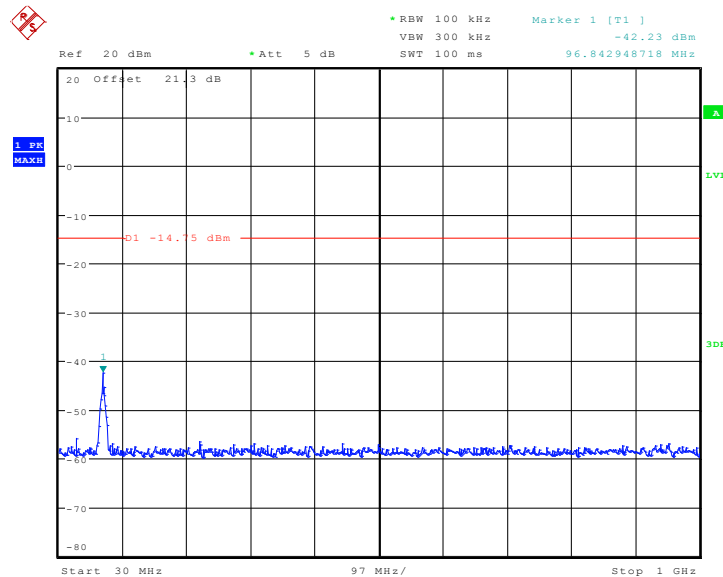
Date: 7.JUN.2011 14:32:25

Fig. 72 Conducted Spurious Emission ((802.11g, Ch11, 20 GHz-26 GHz)



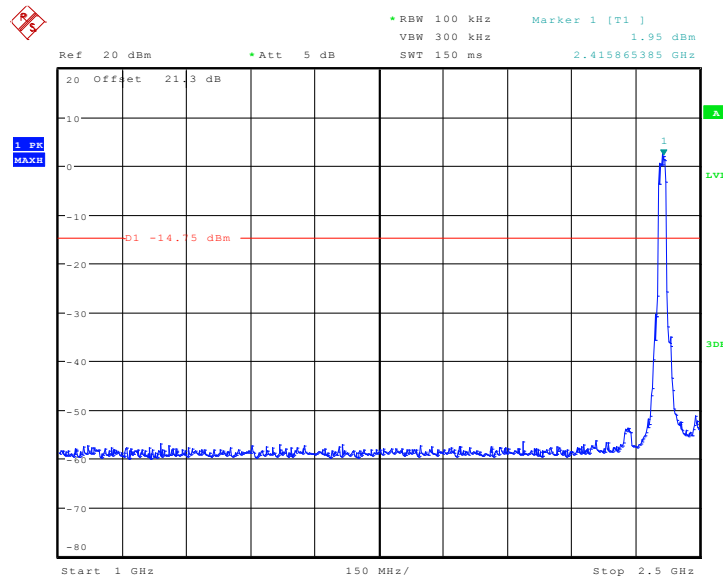
Date: 7.JUN.2011 14:37:55

Fig. 73 Conducted Spurious Emission (802.11n-20MHz, Ch1, Center Frequency)



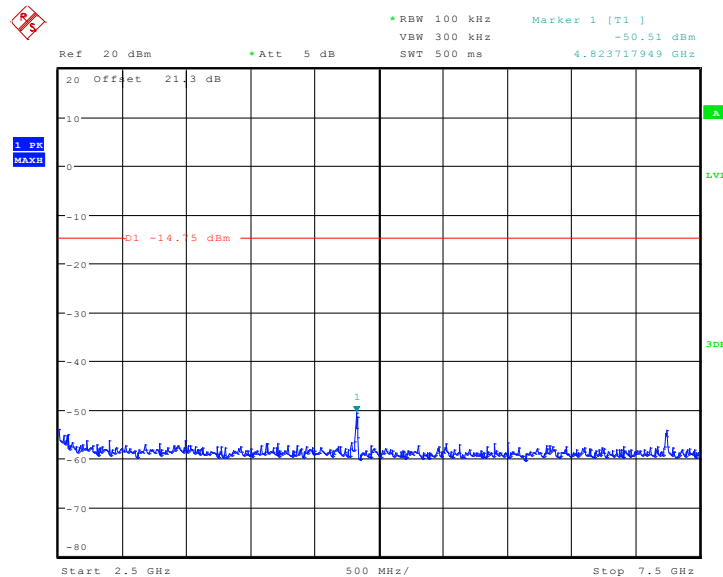
Date: 7.JUN.2011 14:43:47

Fig. 74 Conducted Spurious Emission (802.11n-20MHz, Ch1, 30 MHz-1 GHz)



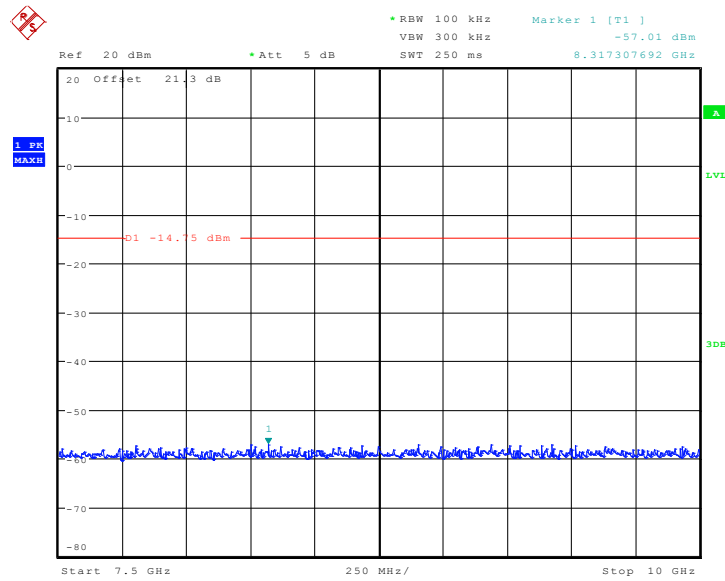
Date: 7.JUN.2011 14:44:11

Fig. 75 Conducted Spurious Emission ((802.11n-20MHz, Ch1, 1 GHz-2.5 GHz)



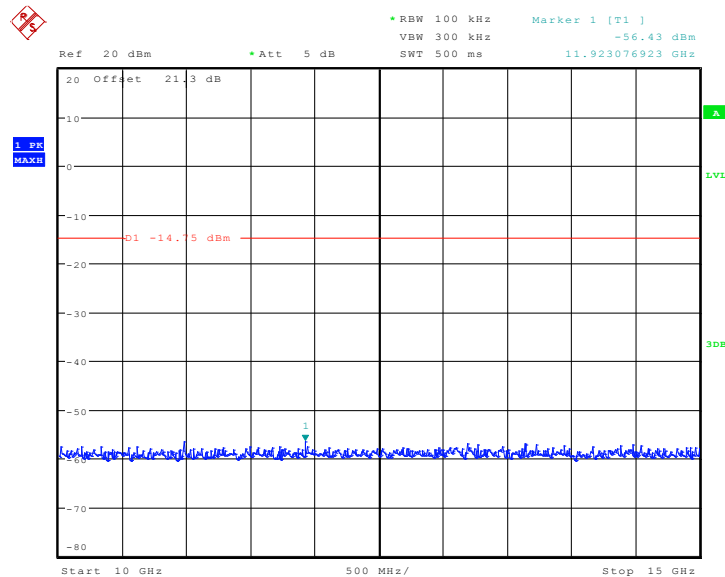
Date: 7.JUN.2011 14:38:46

Fig. 76 Conducted Spurious Emission ((802.11n-20MHz, Ch1, 2.5 GHz-7.5 GHz)



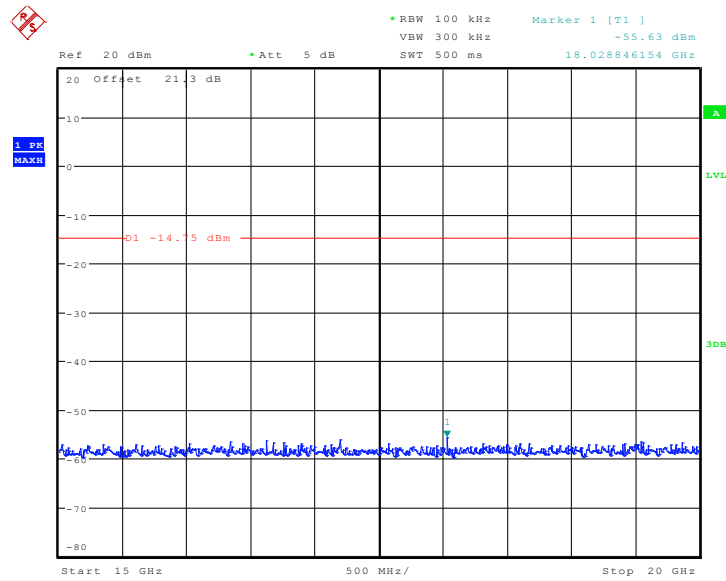
Date: 7.JUN.2011 14:39:34

Fig. 77 Conducted Spurious Emission ((802.11n-20MHz, Ch1, 7.5 GHz-10 GHz)



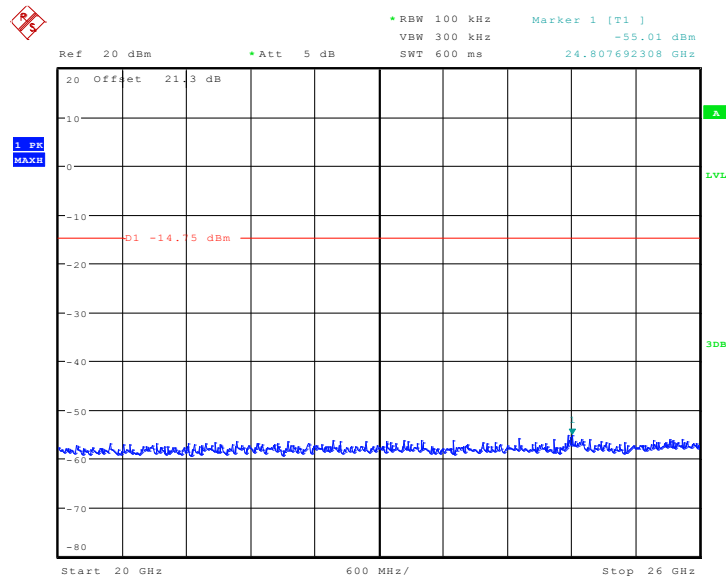
Date: 7.JUN.2011 14:39:53

Fig. 78 Conducted Spurious Emission ((802.11n-20MHz, Ch1, 10 GHz-15 GHz)



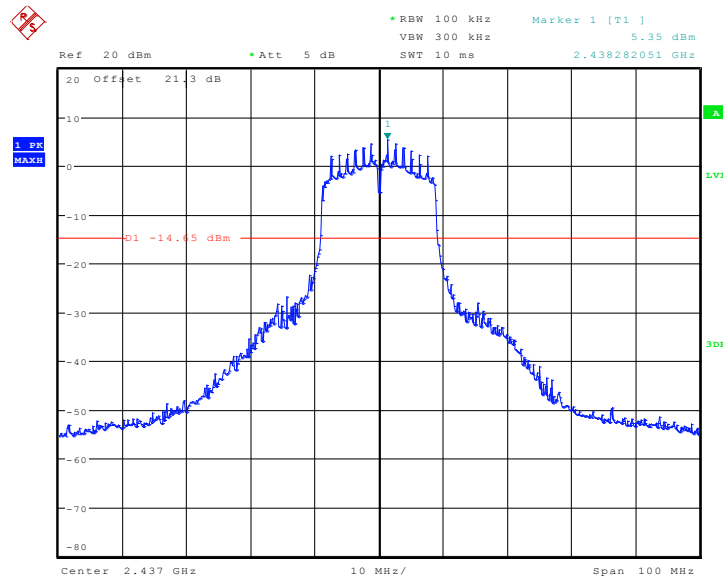
Date: 7.JUN.2011 14:40:15

Fig. 79 Conducted Spurious Emission ((802.11n-20MHz, Ch1, 15 GHz-20 GHz)



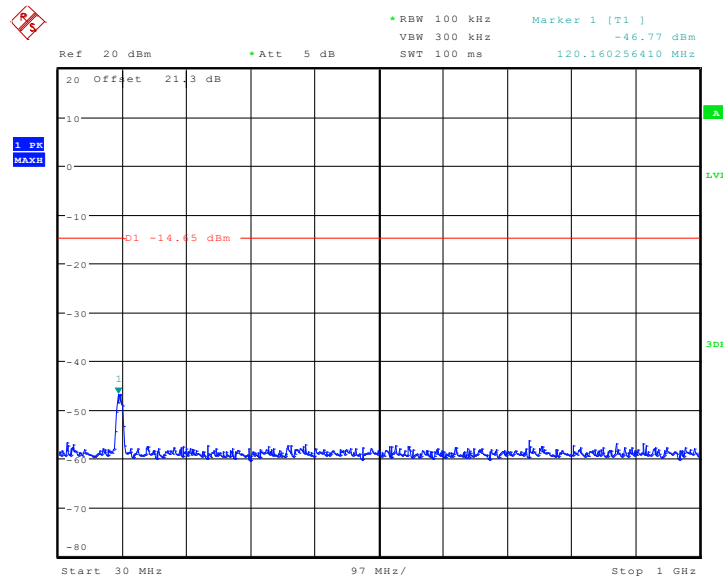
Date: 7.JUN.2011 14:40:37

Fig. 80 Conducted Spurious Emission ((802.11n-20MHz, Ch1, 20 GHz-26 GHz)



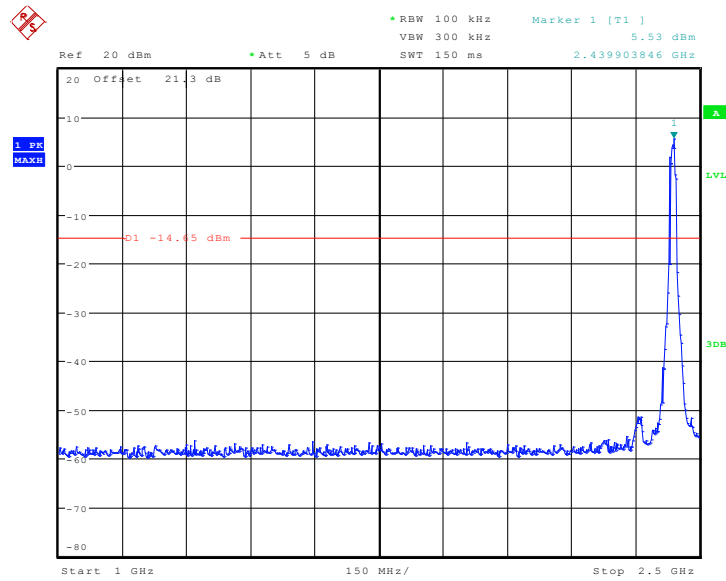
Date: 7.JUN.2011 14:48:12

Fig. 81 Conducted Spurious Emission ((802.11n-20MHz, Ch6, Center Frequency)



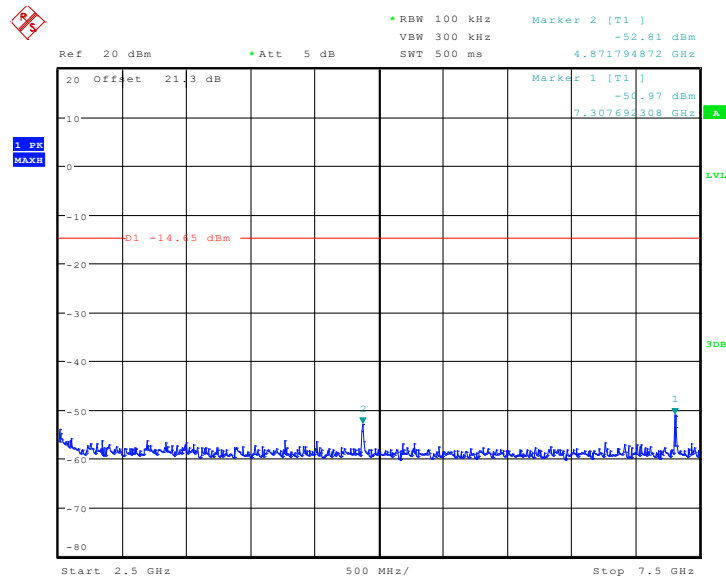
Date: 7.JUN.2011 14:48:35

Fig. 82 Conducted Spurious Emission ((802.11n-20MHz, Ch6, 30 MHz-1 GHz)



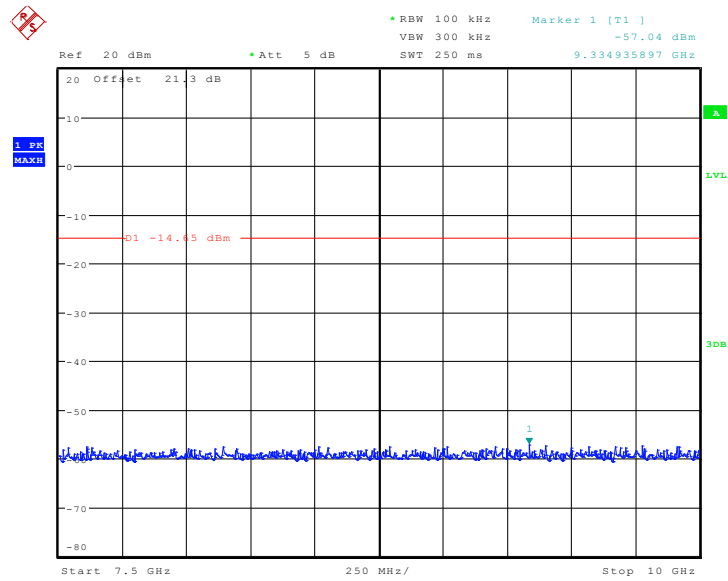
Date: 7.JUN.2011 14:49:08

Fig. 83 Conducted Spurious Emission ((802.11n-20MHz, Ch6, 1 GHz-2.5 GHz)



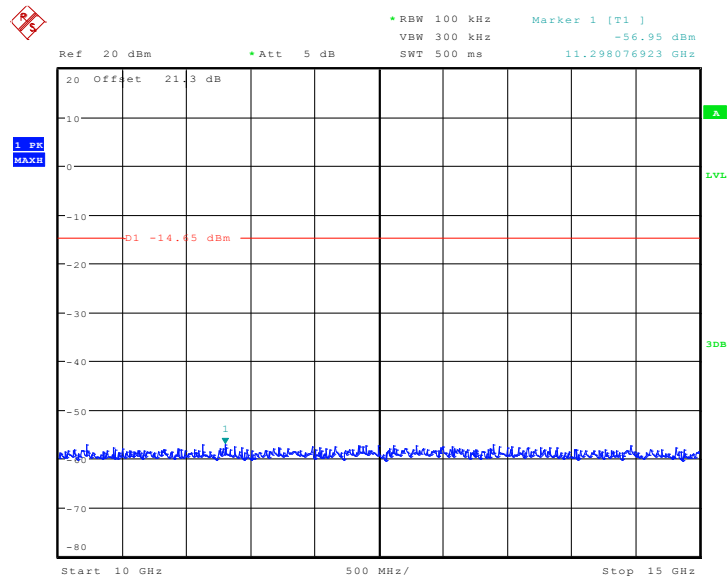
Date: 7.JUN.2011 14:50:07

Fig. 84 Conducted Spurious Emission ((802.11n-20MHz, Ch6, 2.5 GHz-7.5 GHz)



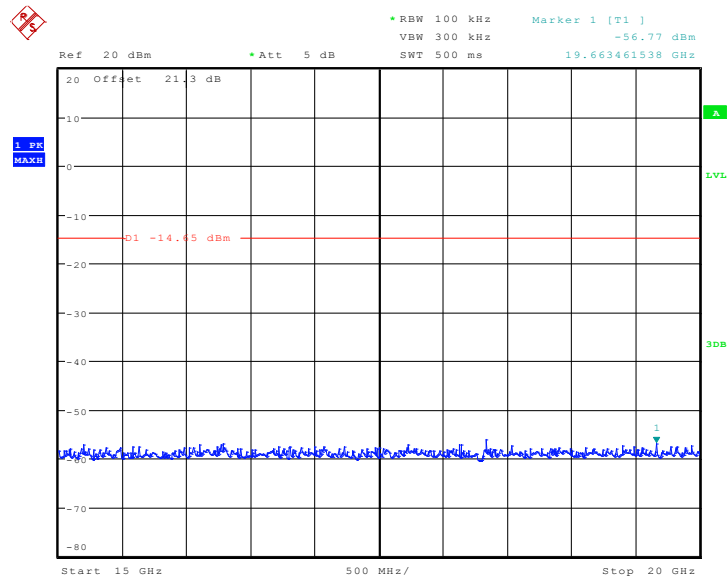
Date: 7.JUN.2011 14:50:25

Fig. 85 Conducted Spurious Emission ((802.11n-20MHz, Ch6, 7.5 GHz-10 GHz)



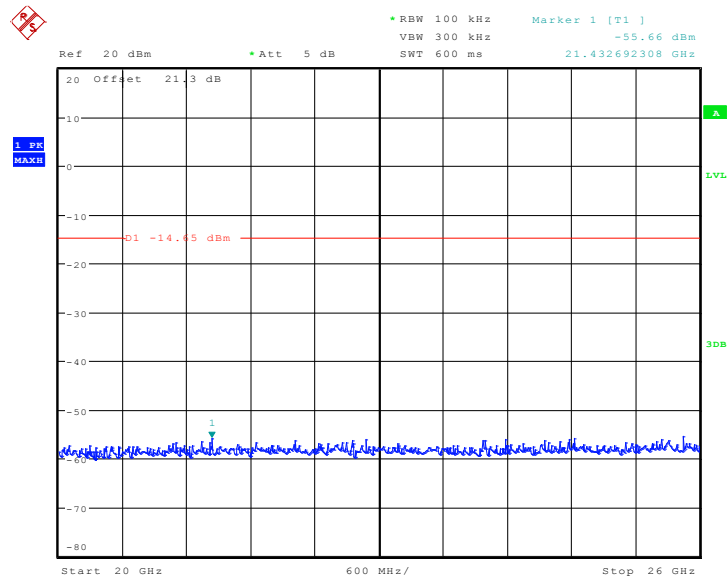
Date: 7.JUN.2011 14:50:44

Fig. 86 Conducted Spurious Emission ((802.11n-20MHz, Ch6, 10 GHz-15 GHz)



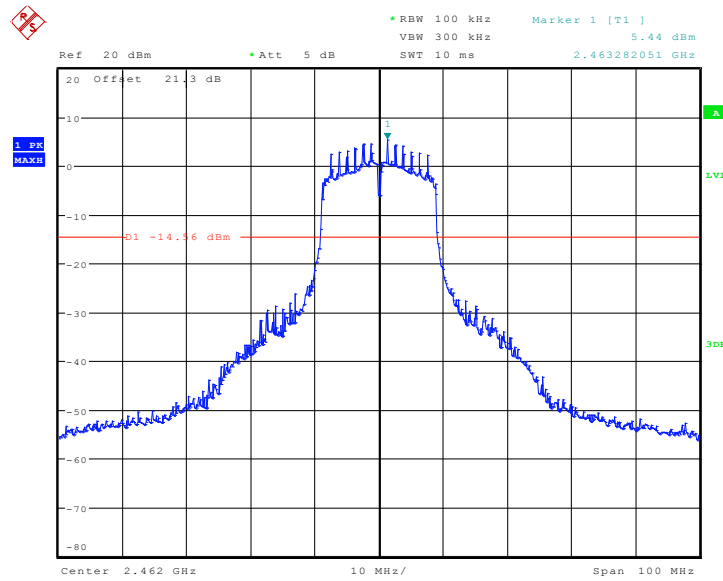
Date: 7.JUN.2011 14:50:58

Fig. 87 Conducted Spurious Emission ((802.11n-20MHz, Ch6, 15 GHz-20 GHz)



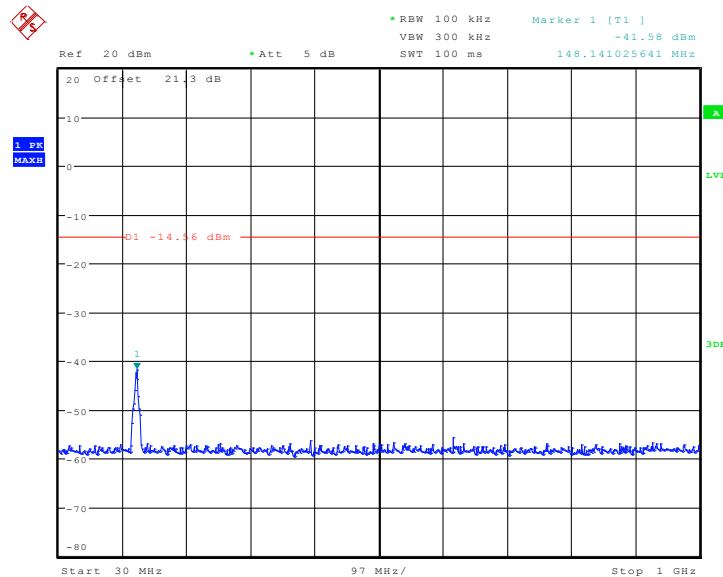
Date: 7.JUN.2011 14:51:13

Fig. 88 Conducted Spurious Emission ((802.11n-20MHz, Ch6, 20 GHz-26 GHz)



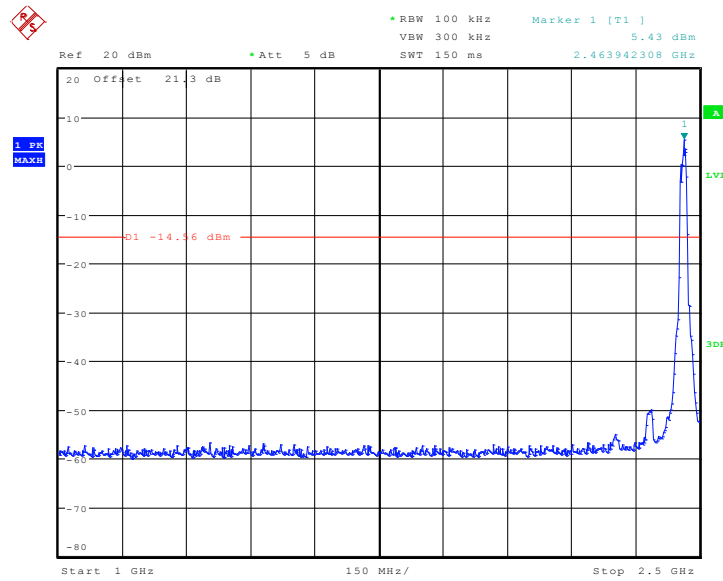
Date: 7.JUN.2011 14:52:26

Fig. 89 Conducted Spurious Emission ((802.11n-20MHz, Ch11, Center Frequency)



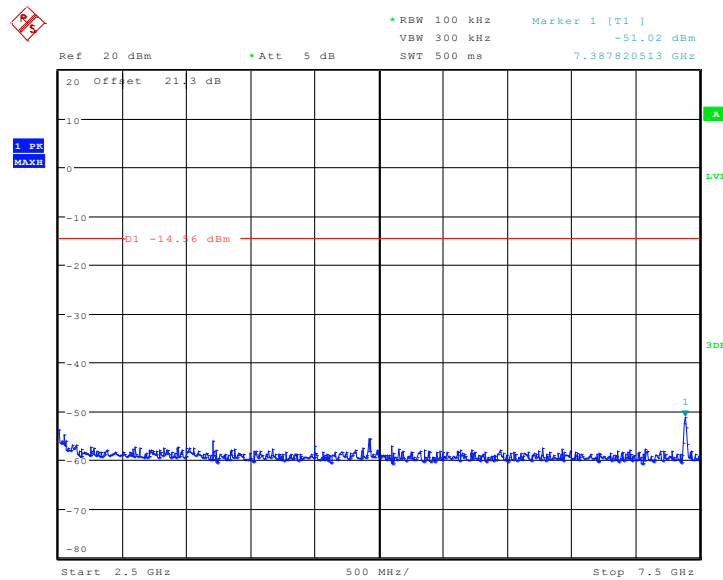
Date: 7.JUN.2011 14:53:27

Fig. 90 Conducted Spurious Emission ((802.11n-20MHz, Ch11, 30 MHz-1 GHz)



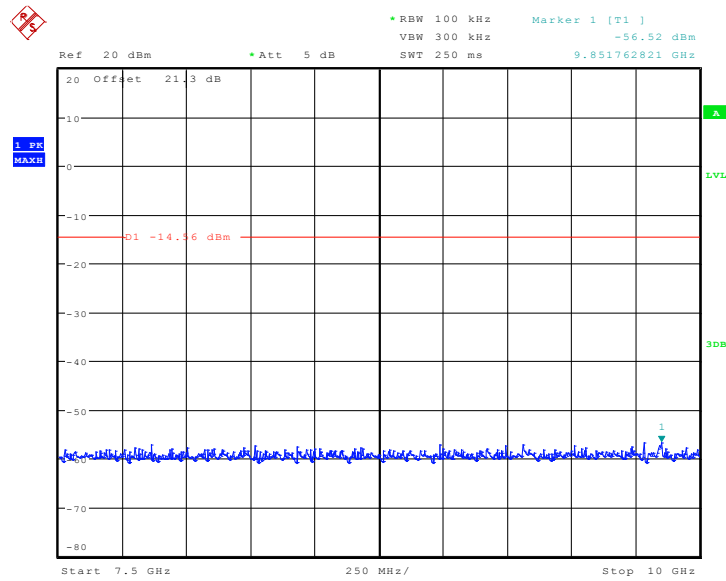
Date: 7.JUN.2011 14:53:57

Fig. 91 Conducted Spurious Emission ((802.11n-20MHz, Ch11, 1 GHz-2.5 GHz)



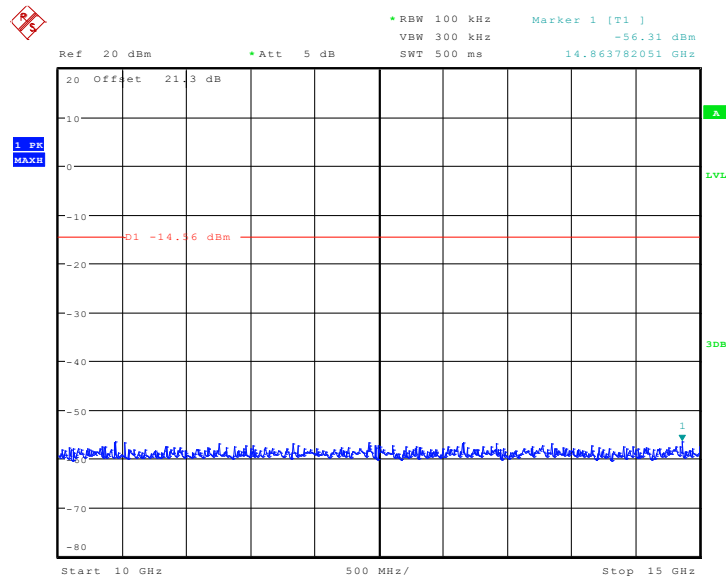
Date: 7.JUN.2011 14:54:13

Fig. 92 Conducted Spurious Emission ((802.11n-20MHz, Ch11, 2.5 GHz-7.5 GHz)



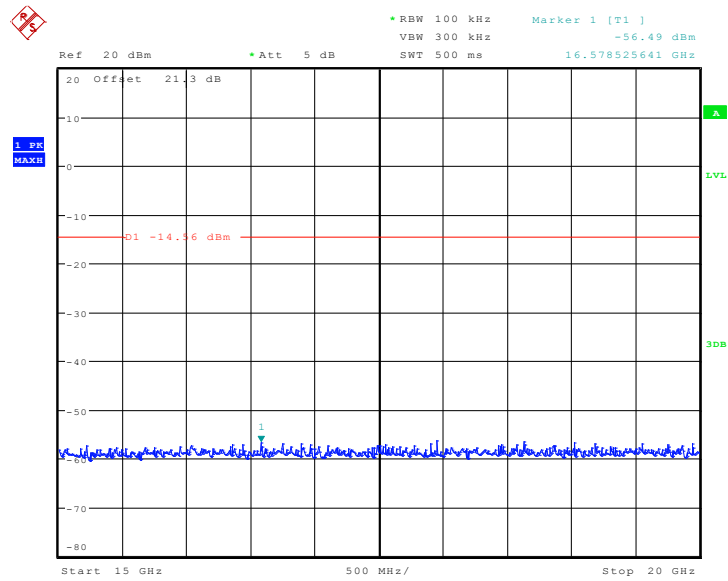
Date: 7.JUN.2011 14:54:35

Fig. 93 Conducted Spurious Emission ((802.11n-20MHz, Ch11, 7.5 GHz-10 GHz)



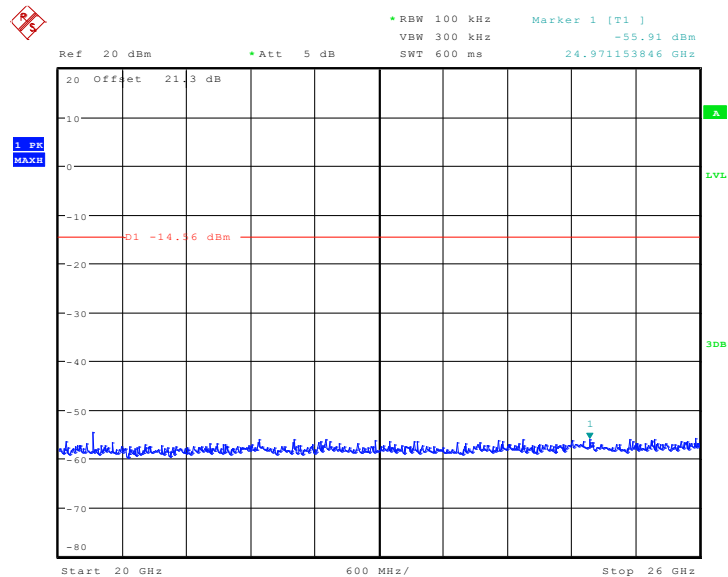
Date: 7.JUN.2011 14:54:58

Fig. 94 Conducted Spurious Emission ((802.11n-20MHz, Ch11, 10 GHz-15 GHz)



Date: 7.JUN.2011 14:55:18

Fig. 95 Conducted Spurious Emission ((802.11n-20MHz, Ch11, 15 GHz-20 GHz)



Date: 7.JUN.2011 14:55:46

Fig. 96 Conducted Spurious Emission ((802.11n-20MHz, Ch11, 20 GHz-26 GHz)

A.6.2 Transmitter Spurious Emission - Radiated

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247, 15.205, 15.209	20dB below peak output power

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)).

The measurement is made according to ANSI C63.4 and KDB558074.

Limit in restricted band:

Frequency of emission (MHz)	Field strength(uV/m)	Field strength(dBuV/m)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Test Condition

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	100KHz/300KHz	5
1000-4000	1MHz/1MHz	15
4000-18000	1MHz/1MHz	40
18000-26500	1MHz/1MHz	20

Measurement Results:
802.11b/g mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11b	Power	2.38GHz ~2.43GHz	Fig.97	P
	1	30 MHz ~1 GHz	Fig.98	P
		1 GHz ~ 4 GHz	Fig.99	P
		4 GHz ~ 18 GHz	Fig.100	P
	6	30 MHz ~1 GHz	Fig.101	P
		1 GHz ~ 4 GHz	Fig.102	P
		4 GHz ~ 18 GHz	Fig.103	P
	Power	2.45GHz ~2.5GHz	Fig.104	P
	11	30 MHz ~1 GHz	Fig.105	P
		1 GHz ~ 4 GHz	Fig.106	P
		4 GHz ~ 18 GHz	Fig.107	P
802.11g	Power	2.38GHz ~2.43GHz	Fig.108	P
	1	30 MHz ~1 GHz	Fig.109	P
		1 GHz ~ 4 GHz	Fig.110	P
		4 GHz ~ 18 GHz	Fig.111	P
	6	30 MHz ~1 GHz	Fig.112	P
		1 GHz ~ 4 GHz	Fig.113	P
		4 GHz ~ 18 GHz	Fig.114	P
	Power	2.45GHz ~2.5GHz	Fig.115	P
	11	30 MHz ~1 GHz	Fig.116	P
		1 GHz ~ 4 GHz	Fig.117	P
		4 GHz ~ 18 GHz	Fig.118	P

802.11n mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (20MHz)	Power	2.38GHz ~2.43GHz	Fig.119	P
	1	30 MHz ~1 GHz	Fig.120	P
		1 GHz ~ 4 GHz	Fig.121	P
		4 GHz ~ 18 GHz	Fig.122	P
	6	30 MHz ~1 GHz	Fig.123	P
		1 GHz ~ 4 GHz	Fig.124	P
		4 GHz ~ 18 GHz	Fig.125	P
	Power	2.45GHz ~2.5GHz	Fig.126	P
	11	30 MHz ~1 GHz	Fig.127	P
		1 GHz ~ 4 GHz	Fig.128	P
		4 GHz ~ 18 GHz	Fig.129	P
802.11n (40MHz)	/	/	/	/
	/	/	/	/
		/	/	/

		/	/	/
	/	/	/	/
		/	/	/
		/	/	/
	/	/	/	/
	/	/	/	/
		/	/	/
		/	/	/
/	All channels	18 GHz~ 26.5 GHz	Fig.130	P

Conclusion: PASS

Note:

A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

P_{Mea} is the field strength recorded from the instrument.

The measurement results are obtained as described below:

Result= $P_{Mea}+A_{Rpl}= P_{Mea}+Cable\ Loss+Antenna\ Factor$

802.11b
Ch1

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
3701.403	48.82	-19.1	33.4	34.52	VERTICAL
3703.407	48.79	-19.1	33.4	34.49	VERTICAL
3713.427	48.78	-18.9	33.4	34.28	VERTICAL
3705.411	48.77	-19.1	33.4	34.47	VERTICAL
3715.431	48.76	-18.9	33.4	34.26	VERTICAL
3707.415	48.75	-19.1	33.4	34.45	VERTICAL

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
3715.431	48.86	-18.9	33.4	34.36	VERTICAL
3709.419	48.83	-19.1	33.4	34.53	VERTICAL
3701.403	48.82	-19.1	33.4	34.52	VERTICAL
3711.423	48.8	-18.9	33.4	34.3	VERTICAL
3703.407	48.79	-19.1	33.4	34.49	VERTICAL
3713.427	48.78	-18.9	33.4	34.28	VERTICAL

Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2474.95	48.93	-18.4	27.5	39.83	VERTICAL
3707.415	48.85	-19.1	33.4	34.55	VERTICAL
3717.435	48.83	-18.9	33.4	34.33	VERTICAL
3711.423	48.8	-18.9	33.4	34.3	VERTICAL
3703.407	48.79	-19.1	33.4	34.49	VERTICAL
3713.427	48.78	-18.9	33.4	34.28	VERTICAL

802.11g

Ch1

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
3715.431	48.86	-18.9	33.4	34.36	VERTICAL
3709.419	48.83	-19.1	33.4	34.53	VERTICAL
3701.403	48.82	-19.1	33.4	34.52	VERTICAL
3711.423	48.8	-18.9	33.4	34.3	VERTICAL
3703.407	48.79	-19.1	33.4	34.49	VERTICAL
3713.427	48.78	-18.9	33.4	34.28	VERTICAL

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
3709.419	48.83	-19.1	33.4	34.53	VERTICAL
3703.407	48.79	-19.1	33.4	34.49	VERTICAL
3713.427	48.78	-18.9	33.4	34.28	VERTICAL
3705.411	48.77	-19.1	33.4	34.47	VERTICAL
3715.431	48.76	-18.9	33.4	34.26	VERTICAL
3707.415	48.75	-19.1	33.4	34.45	VERTICAL

Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2474.95	50.92	-18.4	27.5	41.82	VERTICAL
2450.902	49.05	-18.7	27.5	40.25	VERTICAL
3711.423	48.8	-18.9	33.4	34.3	VERTICAL
3703.407	48.79	-19.1	33.4	34.49	VERTICAL
3713.427	48.78	-18.9	33.4	34.28	VERTICAL
3705.411	48.77	-19.1	33.4	34.47	VERTICAL

802.11n (20MHz)

Ch1

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
3713.427	48.88	-18.9	33.4	34.38	VERTICAL
3701.403	48.82	-19.1	33.4	34.52	VERTICAL
3711.423	48.8	-18.9	33.4	34.3	VERTICAL
3703.407	48.79	-19.1	33.4	34.49	VERTICAL
3705.411	48.77	-19.1	33.4	34.47	VERTICAL
3715.431	48.76	-18.9	33.4	34.26	VERTICAL

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
3703.407	48.79	-19.1	33.4	34.49	VERTICAL
3713.427	48.78	-18.9	33.4	34.28	VERTICAL
3705.411	48.77	-19.1	33.4	34.47	VERTICAL
3715.431	48.76	-18.9	33.4	34.26	VERTICAL
3707.415	48.75	-19.1	33.4	34.45	VERTICAL
3699.399	48.73	-19.2	33.4	34.53	VERTICAL

Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
3711.423	48.8	-18.9	33.4	34.3	VERTICAL
3713.427	48.78	-18.9	33.4	34.28	VERTICAL
3705.411	48.77	-19.1	33.4	34.47	VERTICAL
3715.431	48.76	-18.9	33.4	34.26	VERTICAL
3707.415	48.75	-19.1	33.4	34.45	VERTICAL
3699.399	48.73	-19.2	33.4	34.53	VERTICAL

Test graphs as below:

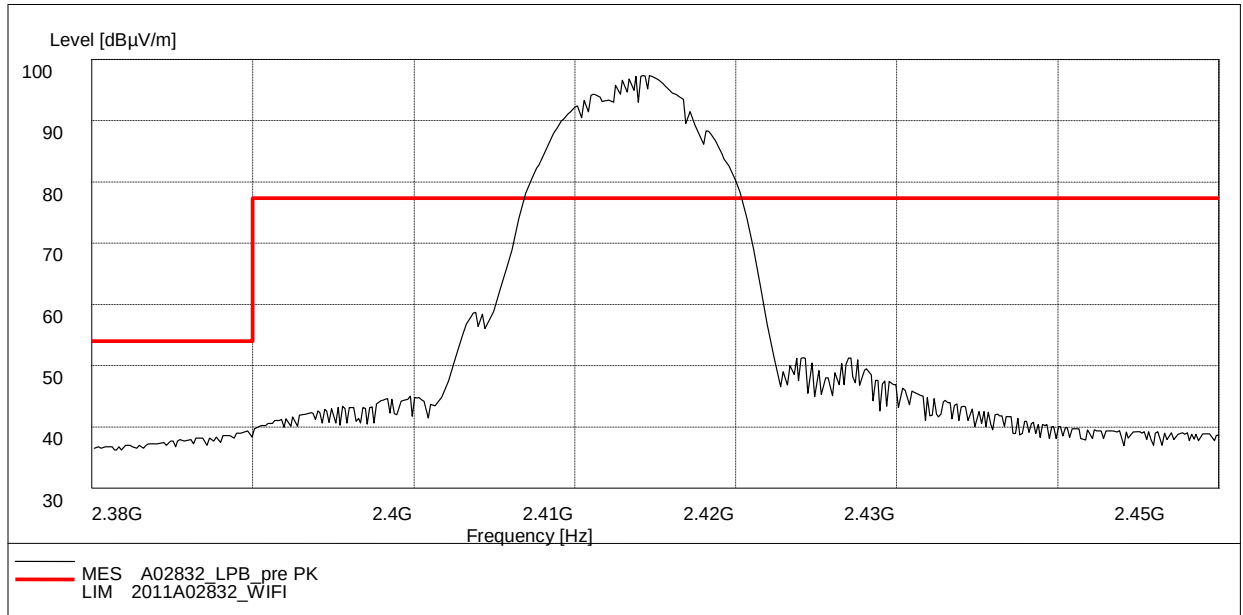


Fig. 97 Radiated Spurious Emission (Power): 802.11b, ch1, 2.38 GHz - 2.43GHz

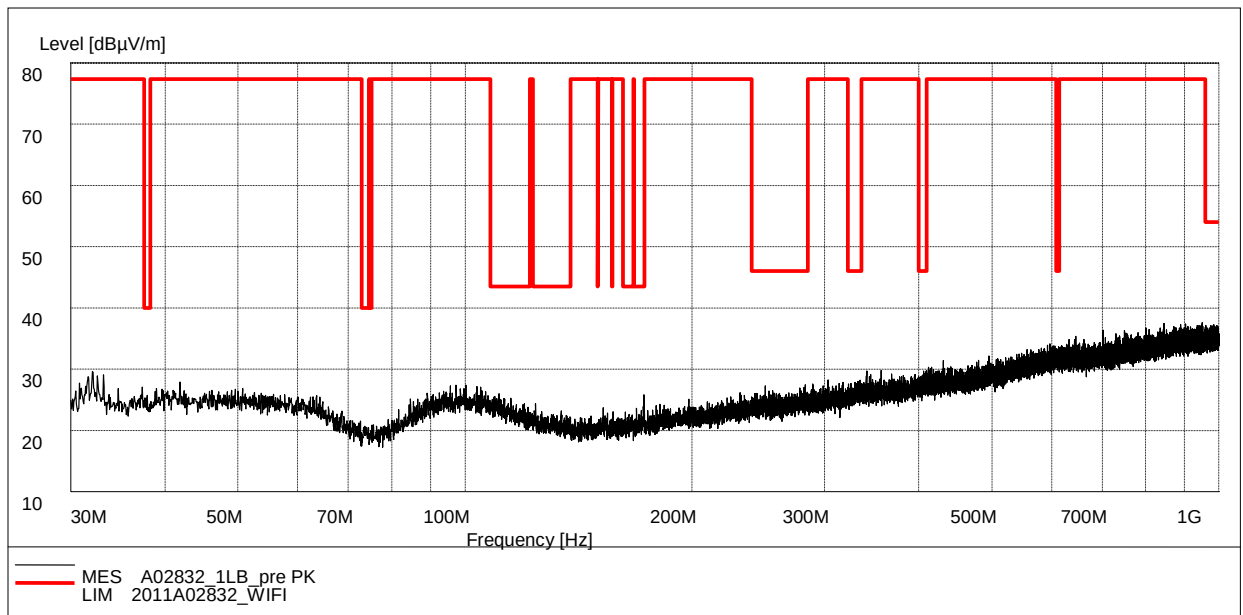


Fig. 98 Radiated Spurious Emission (802.11b, Ch1, 30 MHz-1 GHz)

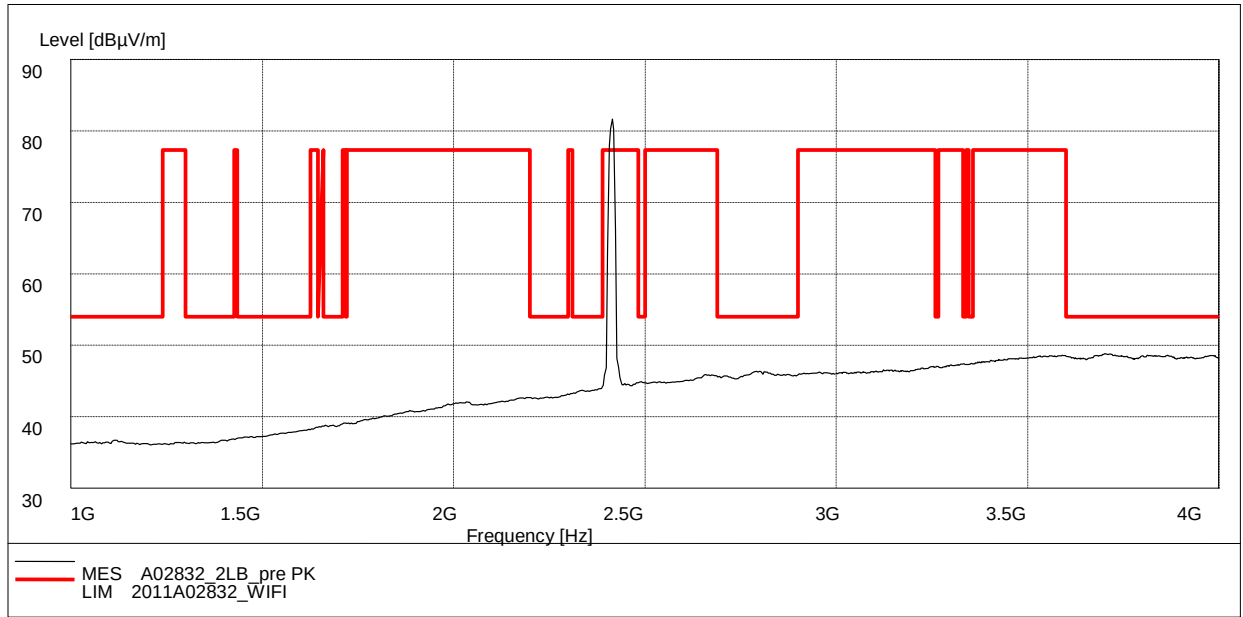


Fig. 99 Radiated Spurious Emission (802.11b, Ch1, 1 GHz-4 GHz)

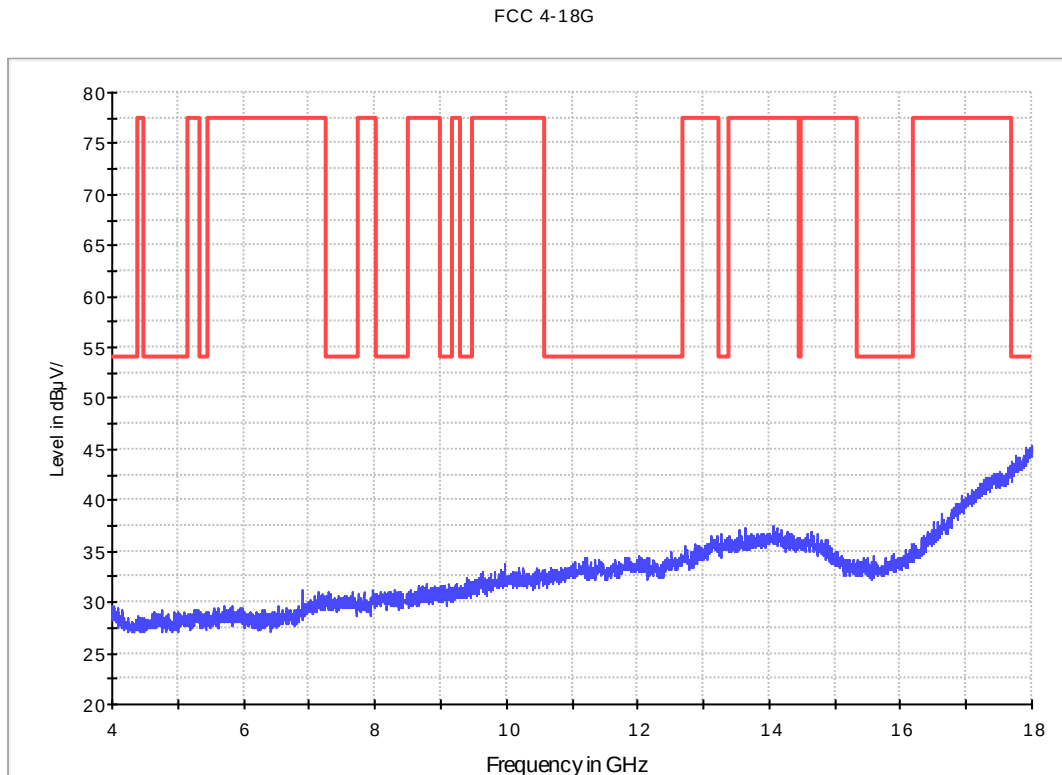


Fig. 100 Radiated Spurious Emission (802.11b, Ch1, 4 GHz-18 GHz)

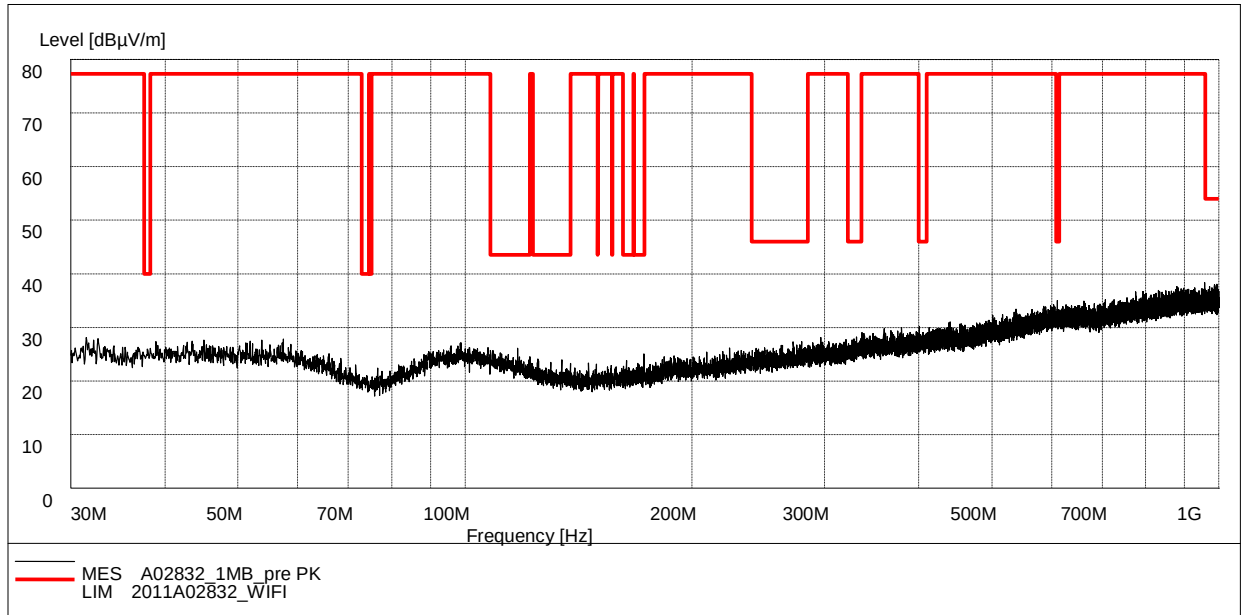


Fig. 101 Radiated Spurious Emission (802.11b, Ch6, 30 MHz-1 GHz)

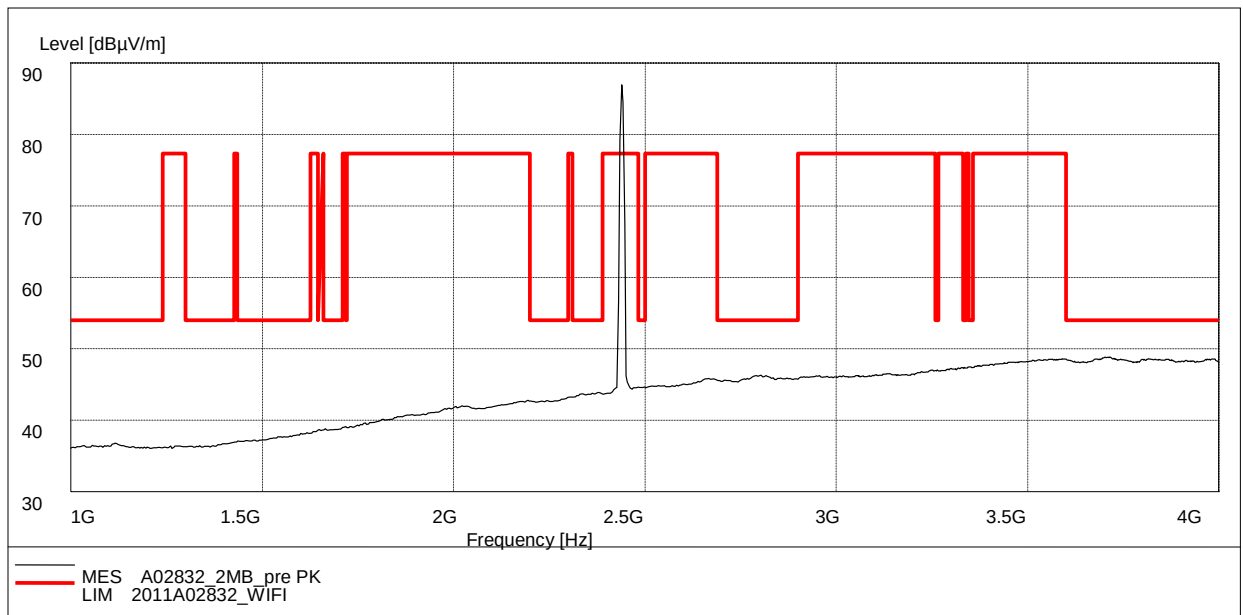


Fig. 102 Radiated Spurious Emission (802.11b, Ch6, 1 GHz-4 GHz)

FCC 4-18G

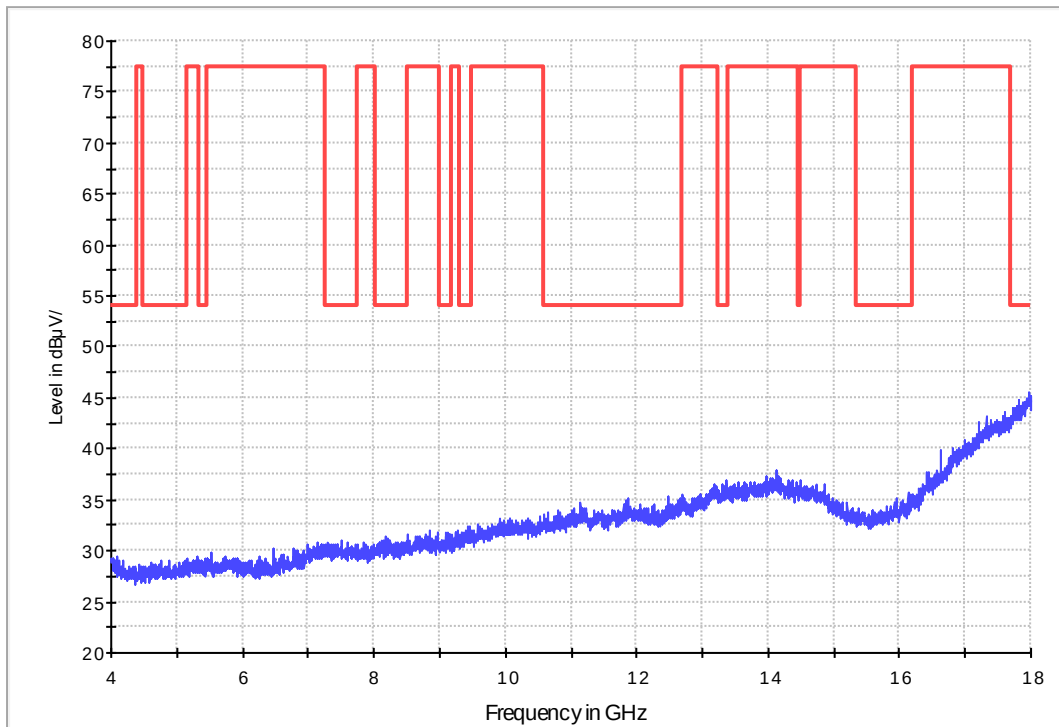


Fig. 103 Radiated Spurious Emission (802.11b, Ch6, 4 GHz-18 GHz)

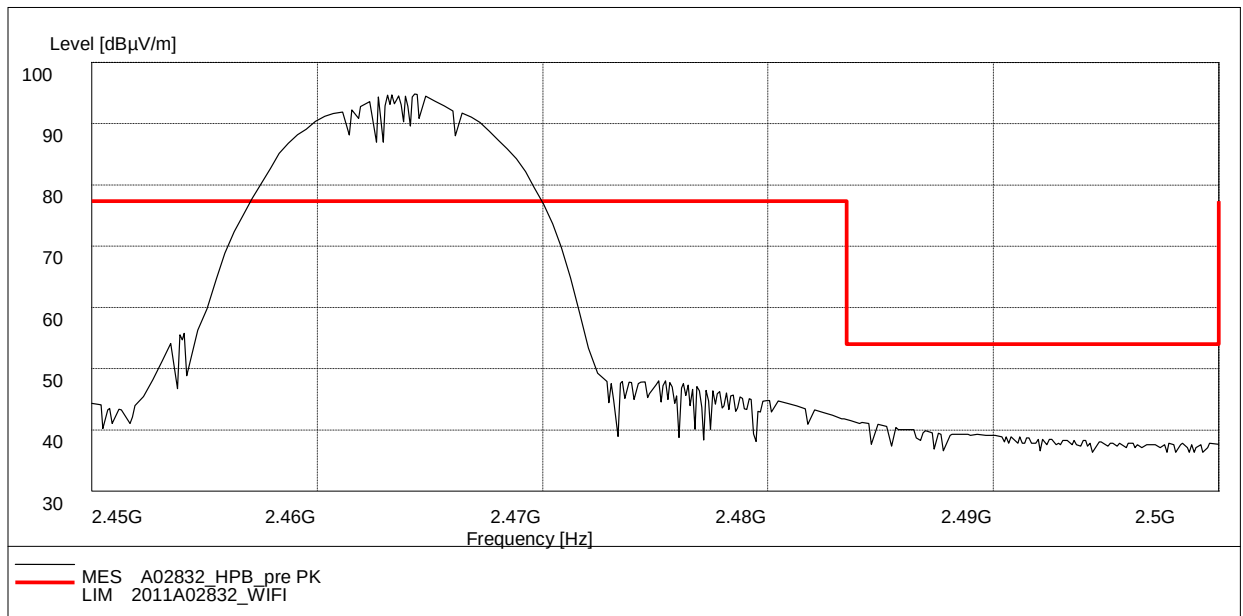


Fig. 104 Radiated Spurious Emission (Power): 802.11b, ch11, 2.45 GHz - 2.50GHz

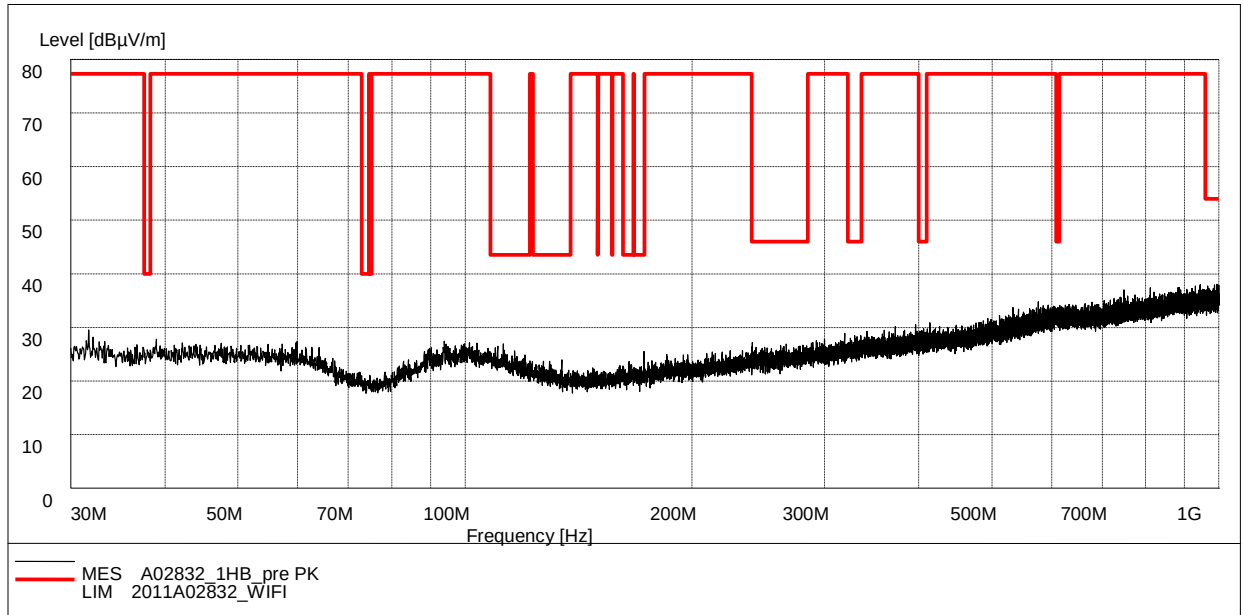


Fig. 105 Radiated Spurious Emission (802.11b, Ch11, 30 MHz-1 GHz)

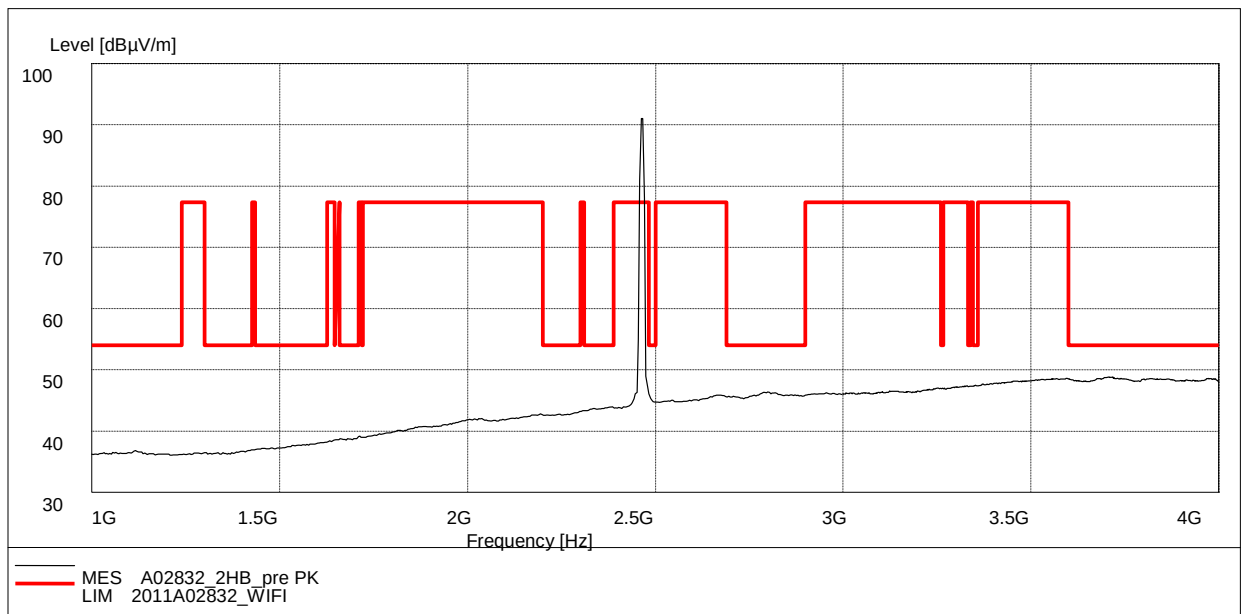


Fig. 106 Radiated Spurious Emission (802.11b, Ch11, 1 GHz-4 GHz)

FCC 4-18G

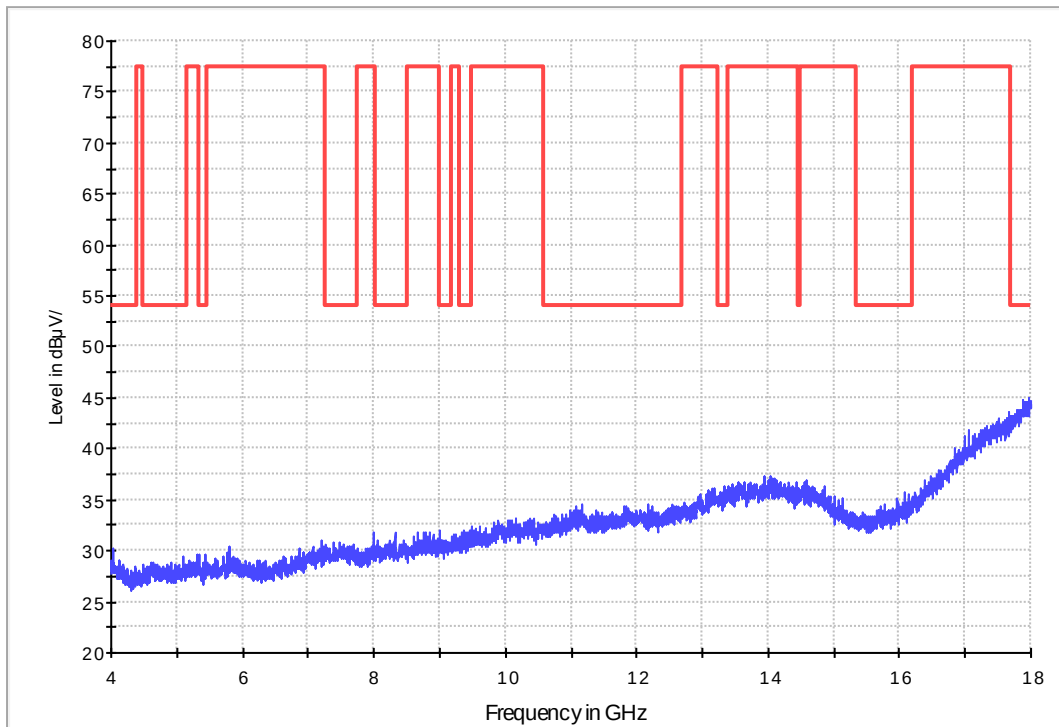


Fig. 107 Radiated Spurious Emission (802.11b, Ch11, 4 GHz-18 GHz)

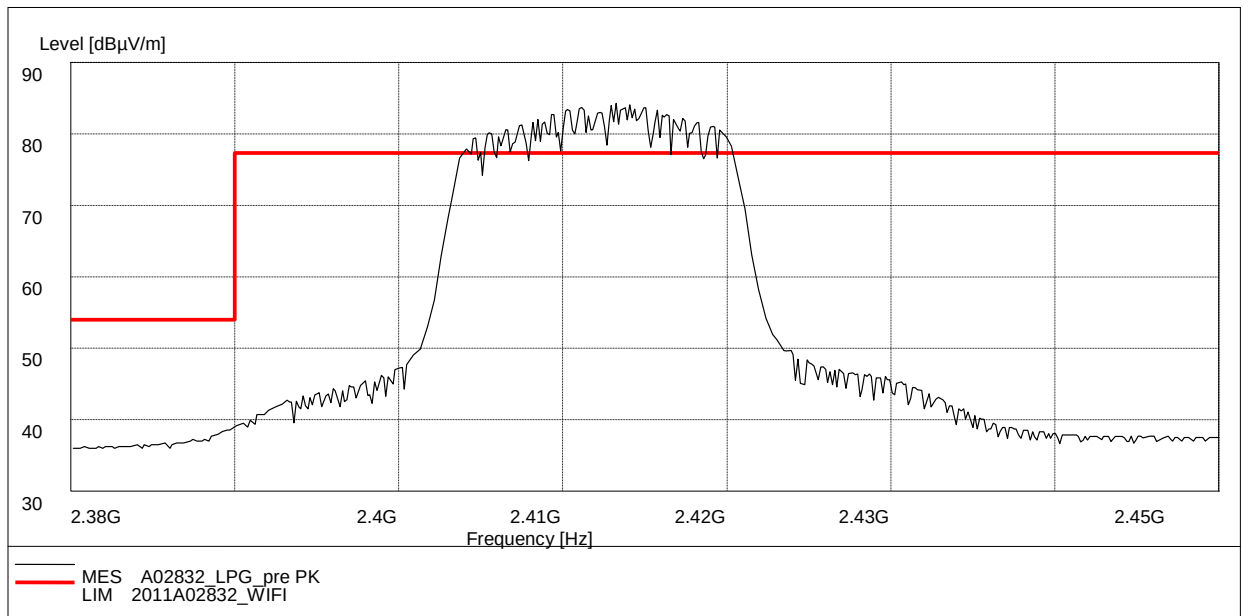


Fig. 108 Radiated Spurious Emission (Power): 802.11g, ch1, 2.38 GHz - 2.43GHz

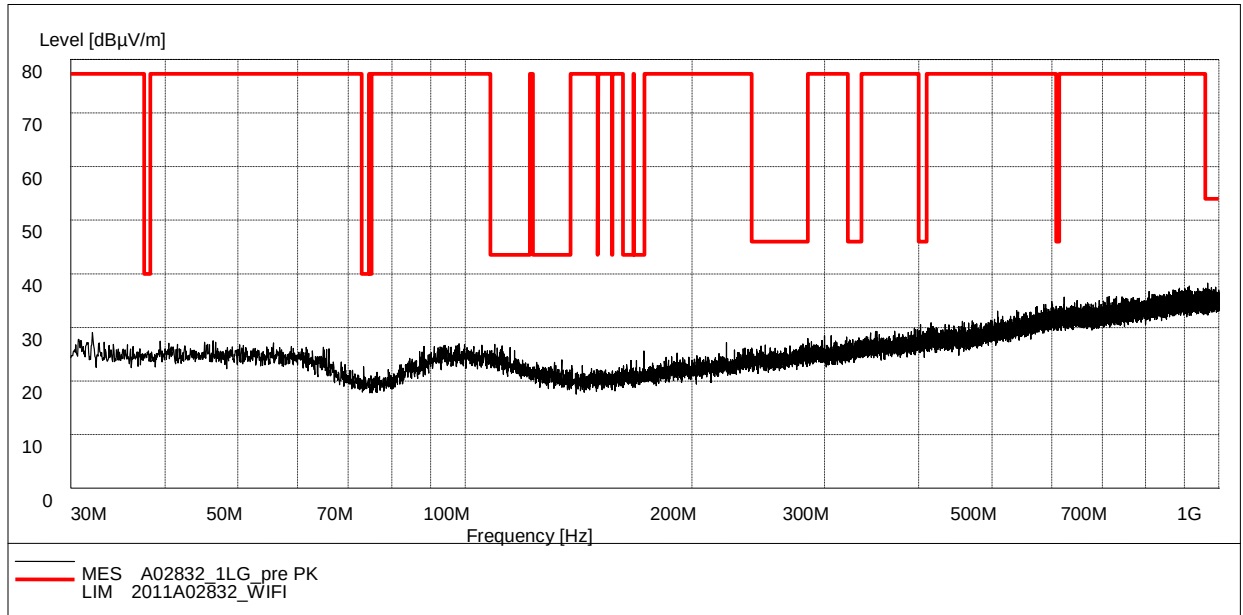


Fig. 109 Radiated Spurious Emission (802.11g, Ch1, 30 MHz-1 GHz)

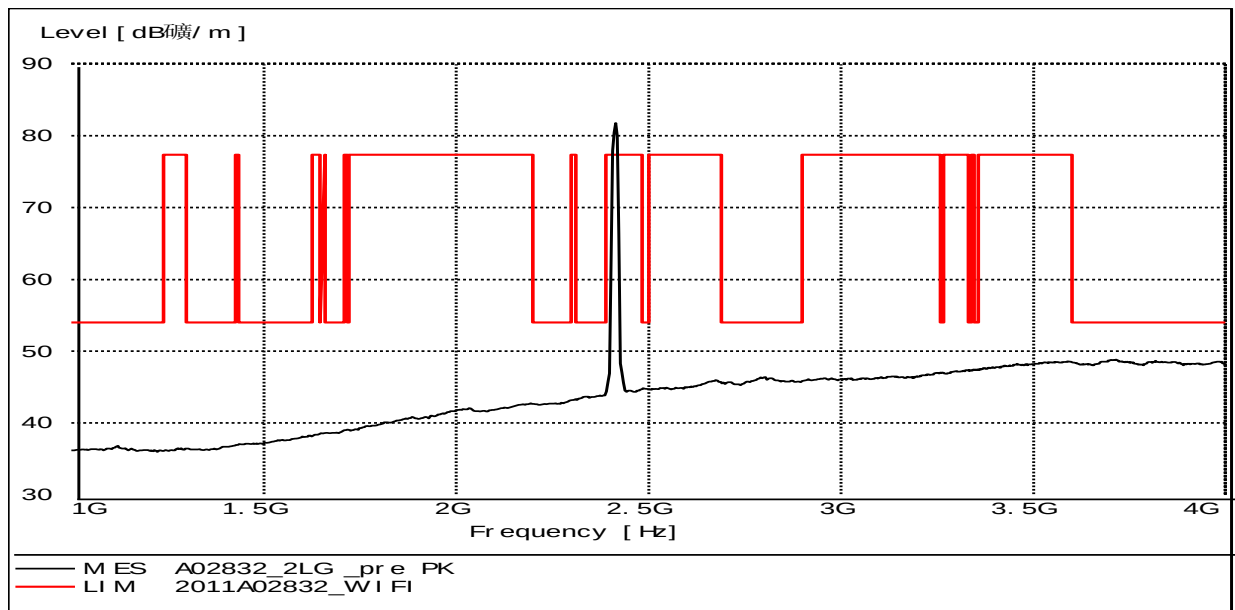


Fig. 110 Radiated Spurious Emission (802.11g, Ch1, 1 GHz-4 GHz)

FCC 4-18G

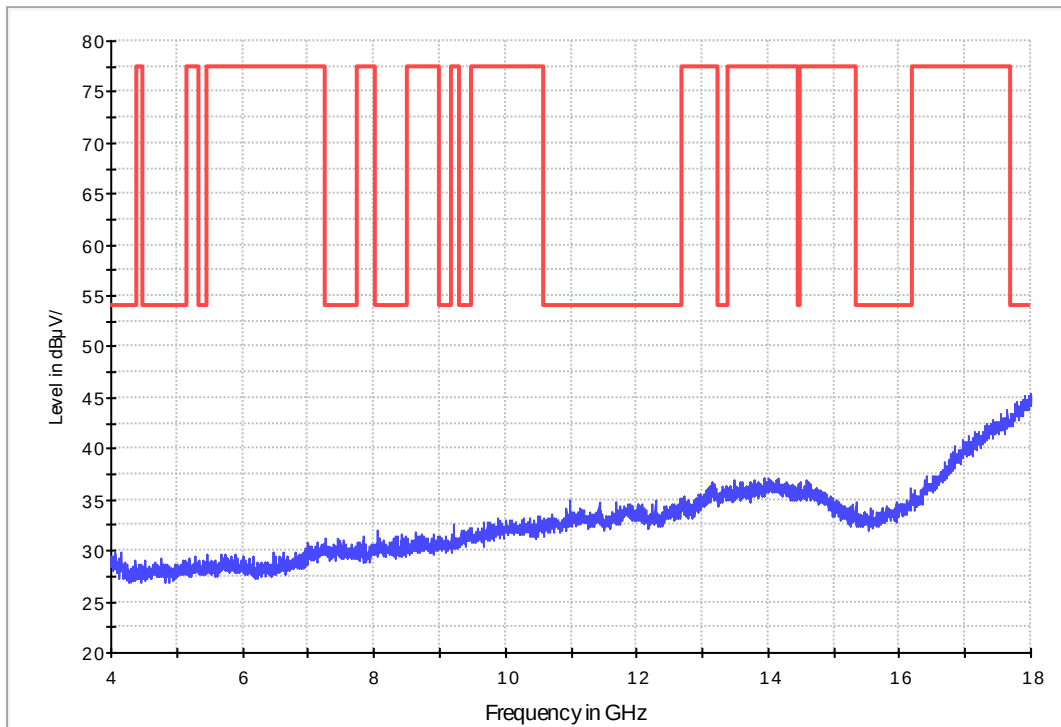


Fig. 111 Radiated Spurious Emission (802.11g, Ch1, 4 GHz-18 GHz)

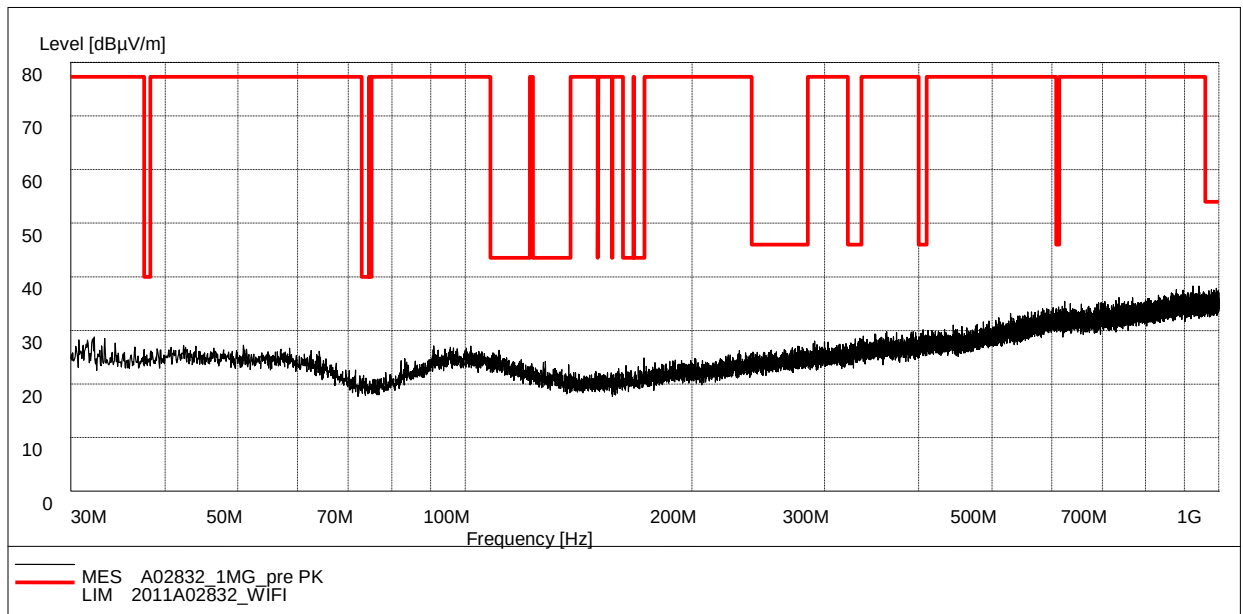


Fig. 112 Radiated Spurious Emission (802.11g, Ch6, 30 MHz-1 GHz)

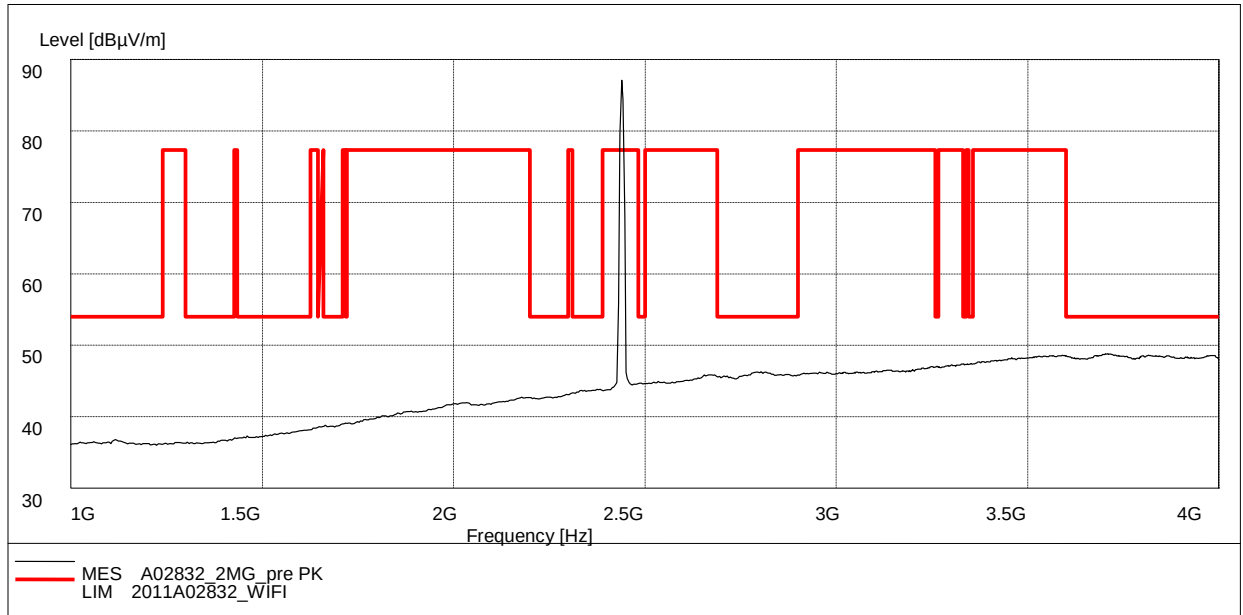


Fig. 113 Radiated Spurious Emission (802.11g, Ch6, 1 GHz-4 GHz)

FCC 4-18G

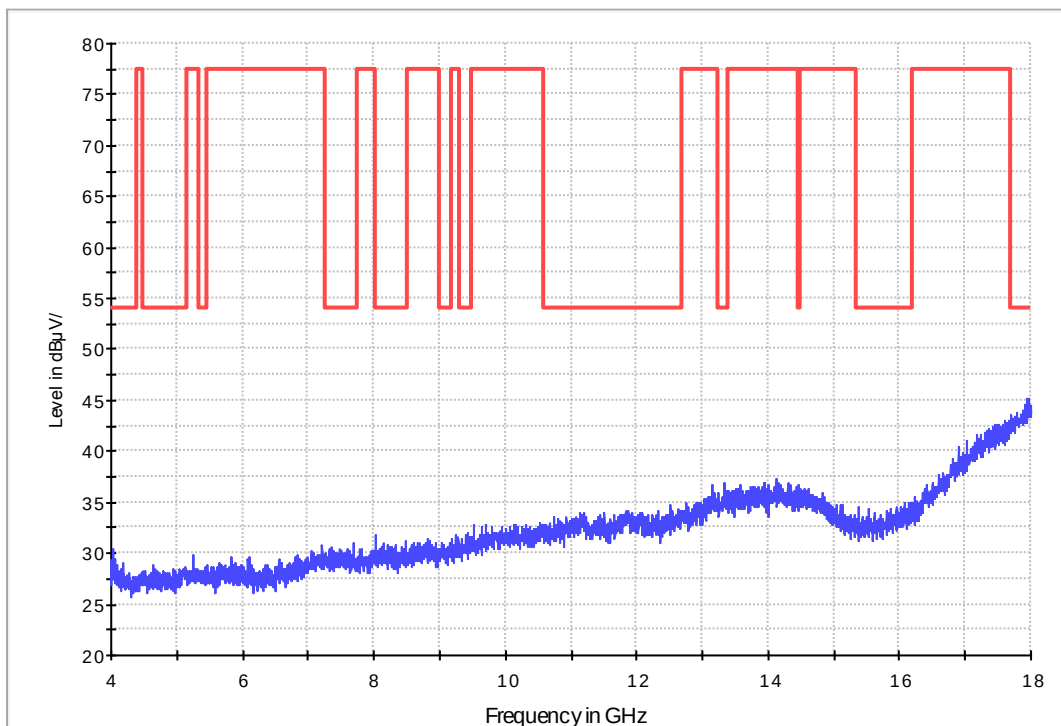


Fig. 114 Radiated Spurious Emission (802.11g, Ch6, 4 GHz-18 GHz)

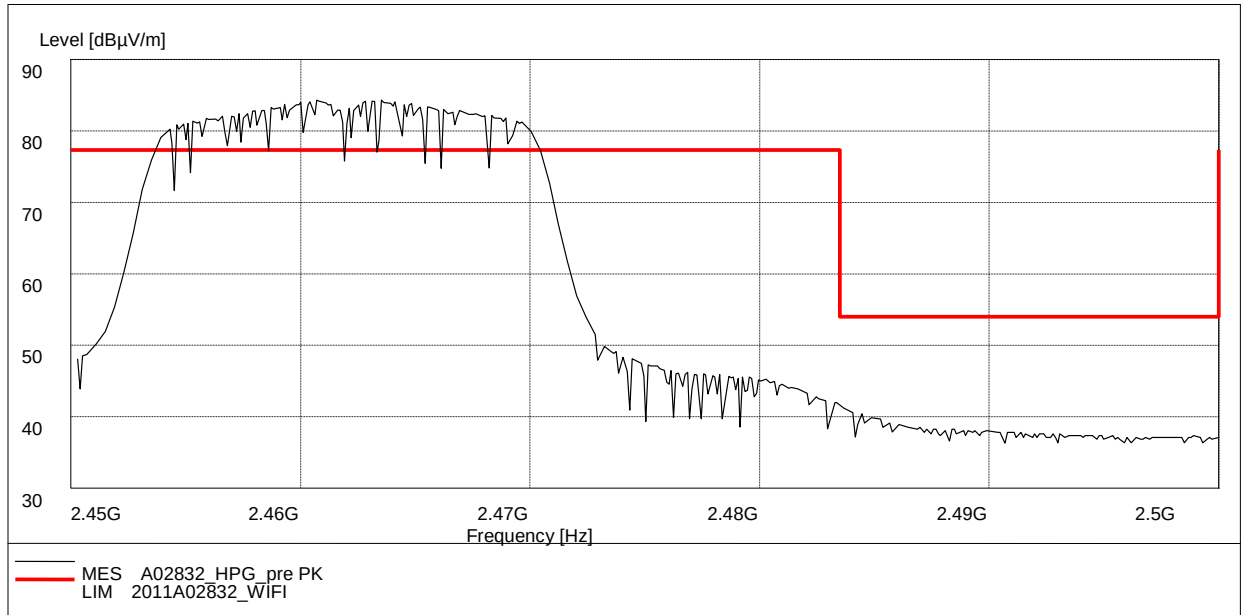


Fig. 115 Radiated Spurious Emission (Power): 802.11g, ch11, 2.45 GHz - 2.50GHz

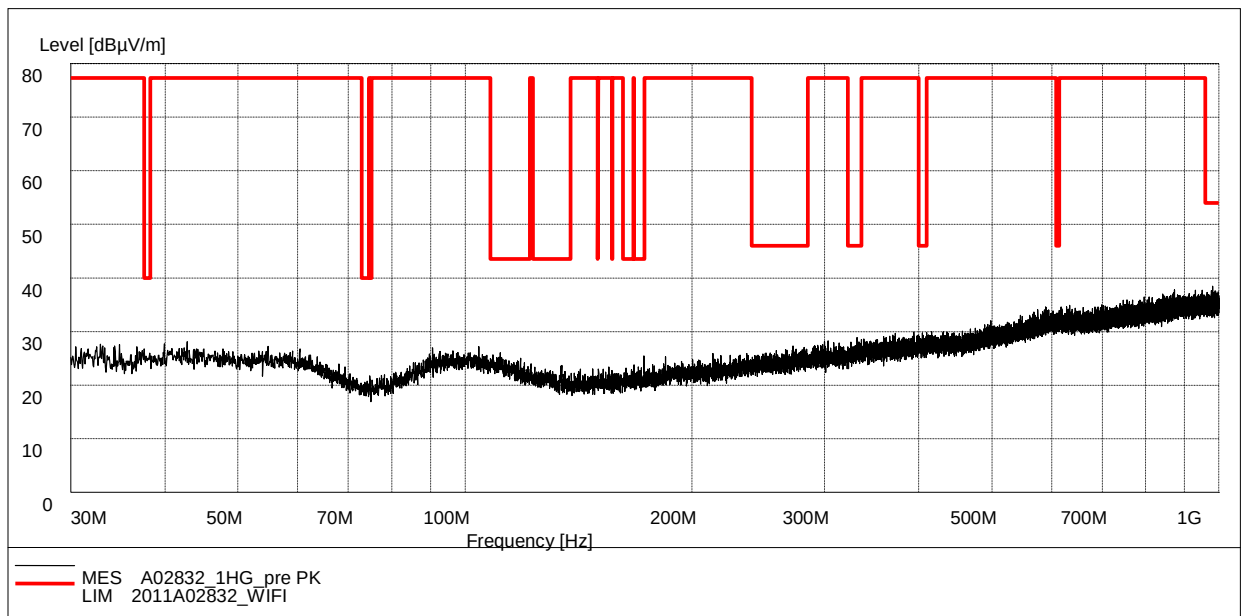


Fig. 116 Radiated Spurious Emission (802.11g, Ch11, 30 MHz-1 GHz)

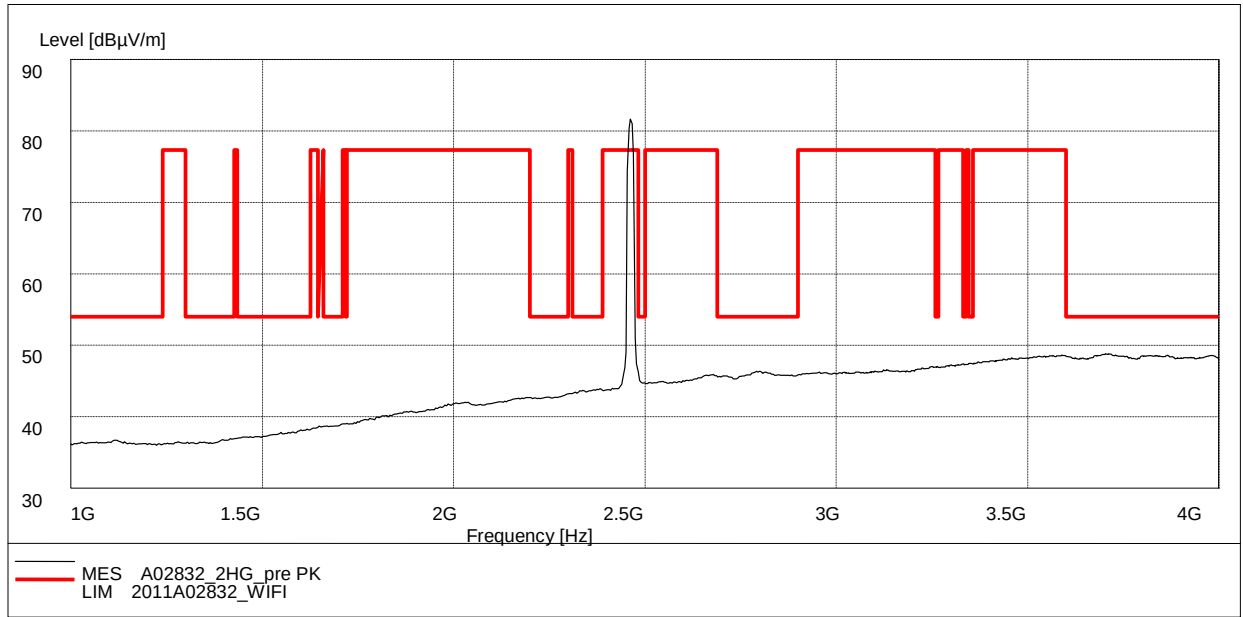


Fig. 117 Radiated Spurious Emission (802.11g, Ch11, 1 GHz-4 GHz)

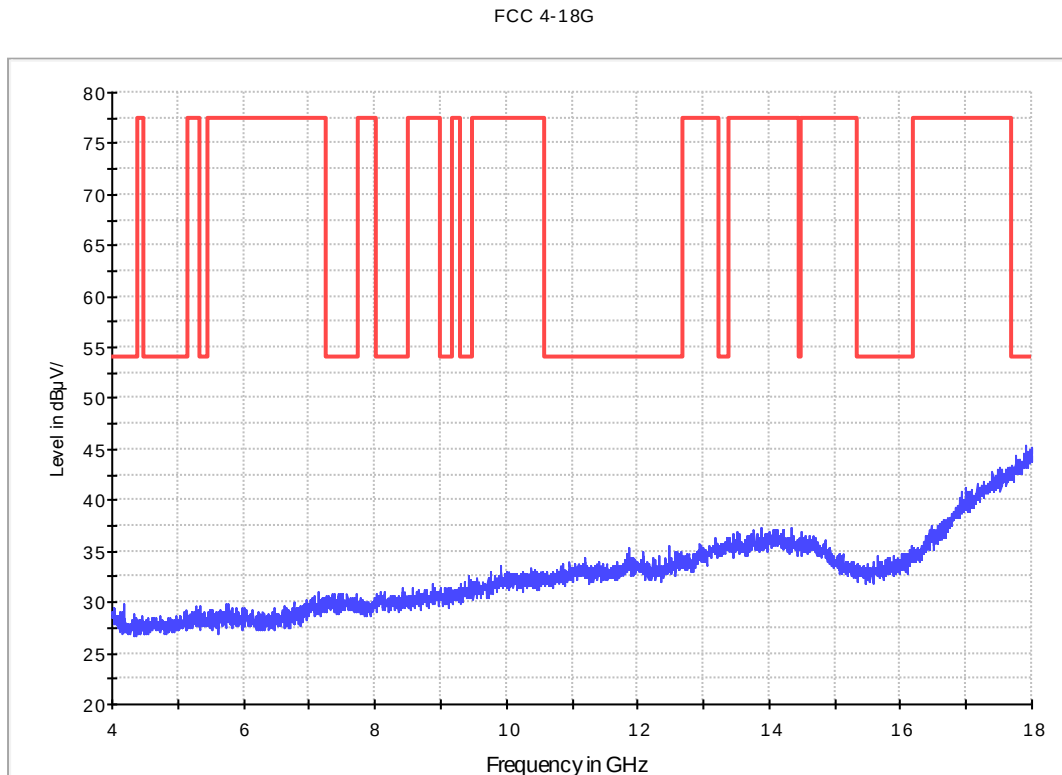


Fig. 118 Radiated Spurious Emission (802.11g, Ch11, 4 GHz-18 GHz)

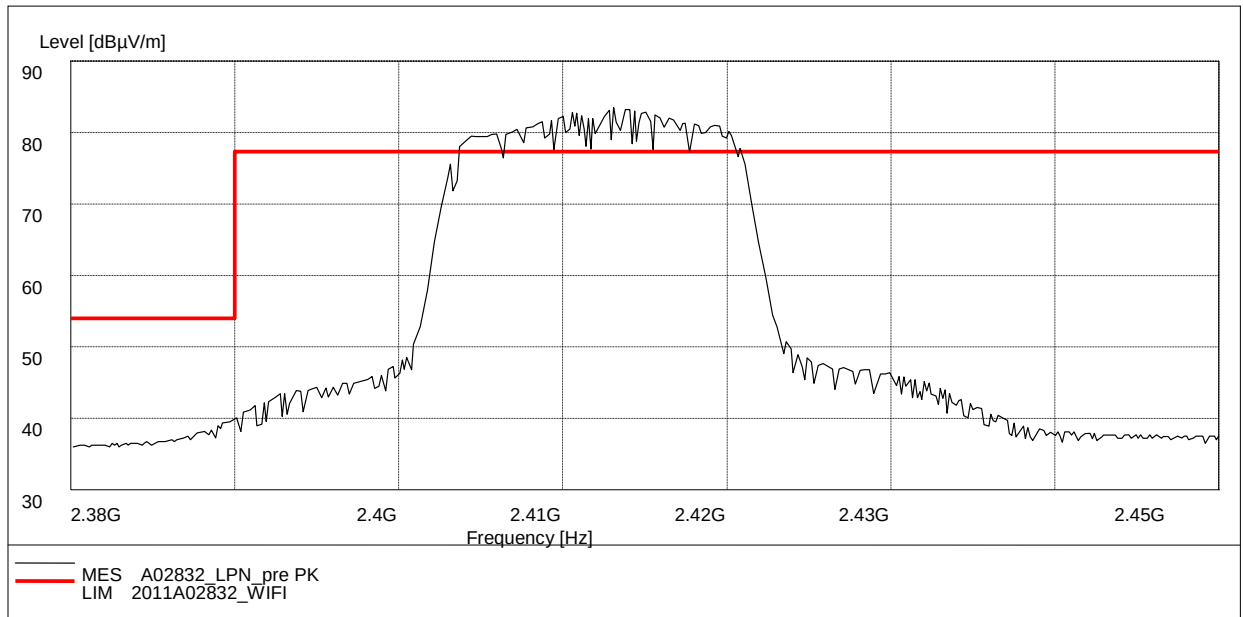


Fig. 119 Radiated Spurious Emission (Power): 802.11n-20MHz, ch1, 2.38 GHz - 2.43GHz

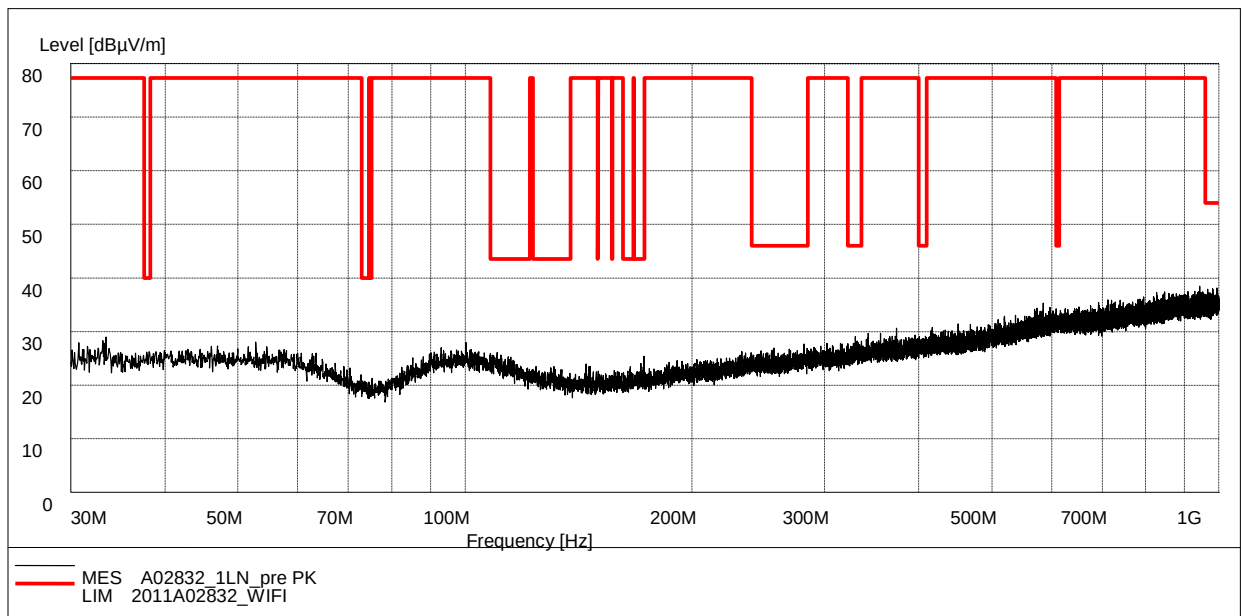


Fig. 120 Radiated Spurious Emission (802.11n-20MHz, Ch1, 30 MHz-1 GHz)

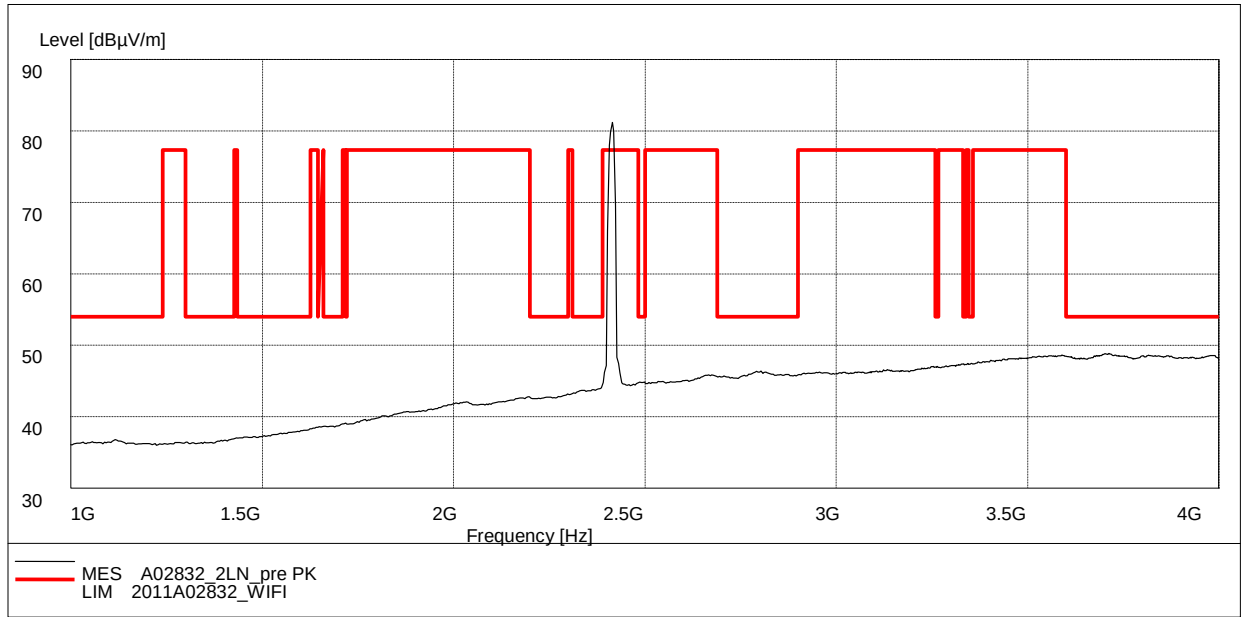


Fig. 121 Radiated Spurious Emission (802.11n-20MHz, Ch1, 1 GHz-4 GHz)

FCC 4-18G

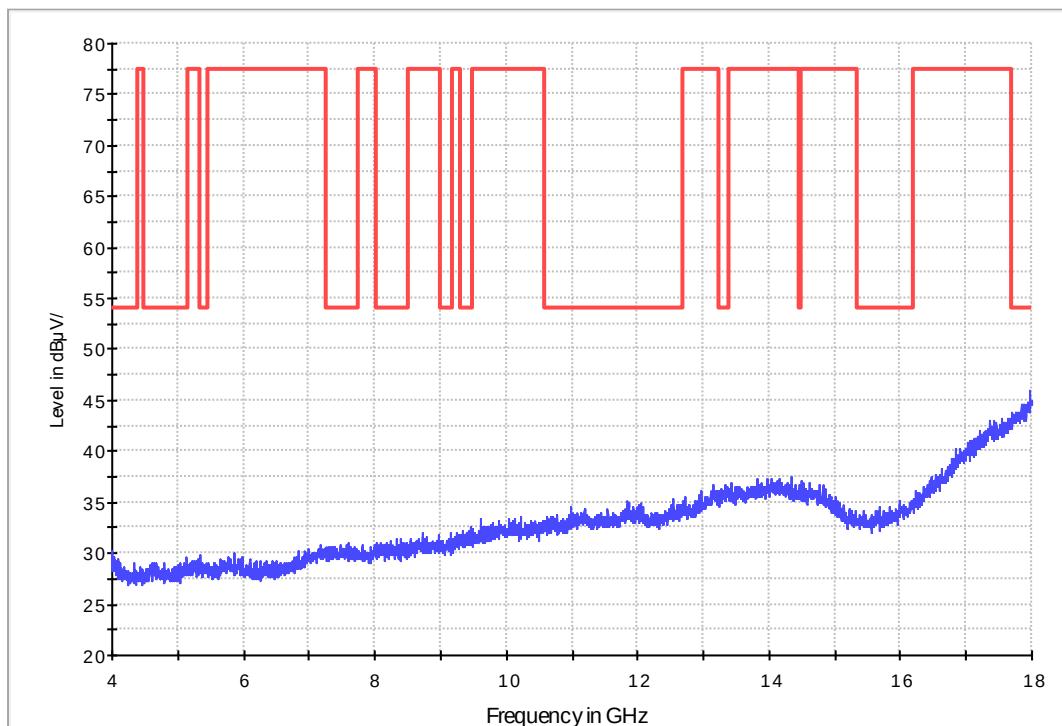


Fig. 122 Radiated Spurious Emission (802.11n-20MHz, Ch1, 4 GHz-18 GHz)

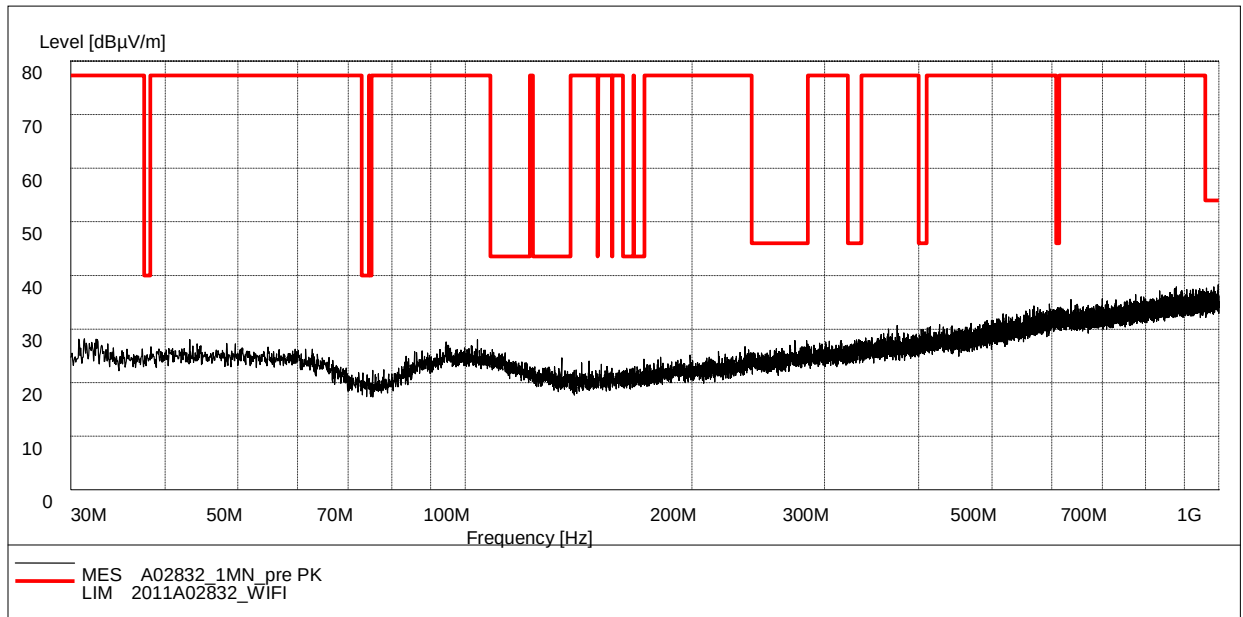


Fig. 123 Radiated Spurious Emission (802.11n-20MHz, Ch6, 30 MHz-1 GHz)

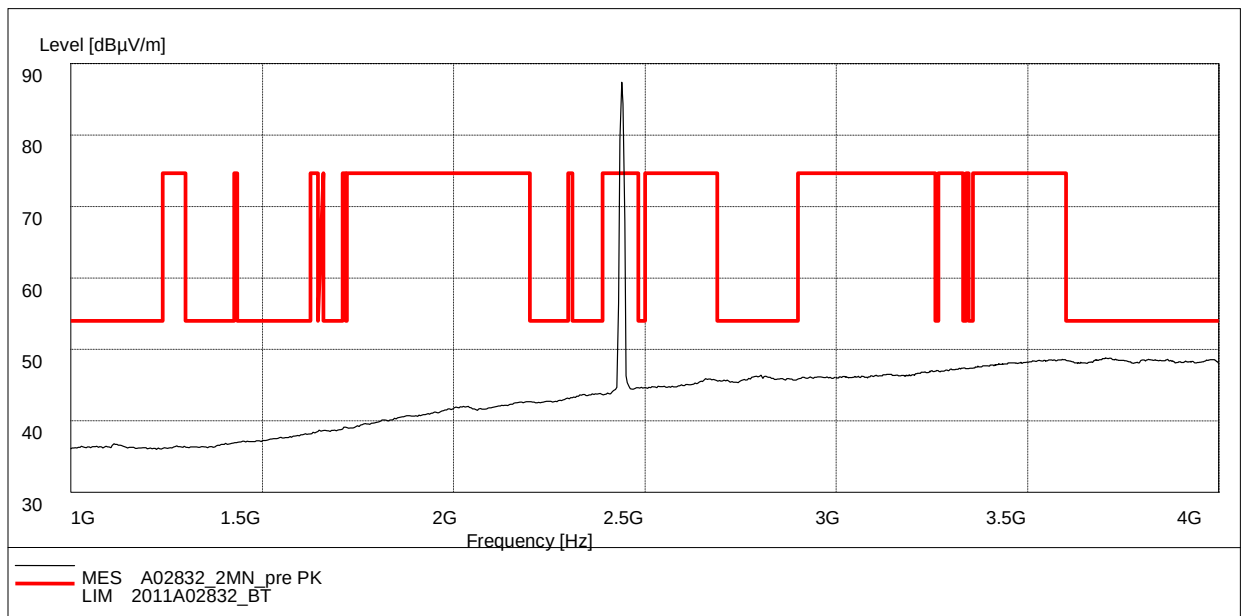


Fig. 124 Radiated Spurious Emission (802.11n-20MHz, Ch6, 1 GHz-4 GHz)

FCC 4-18G

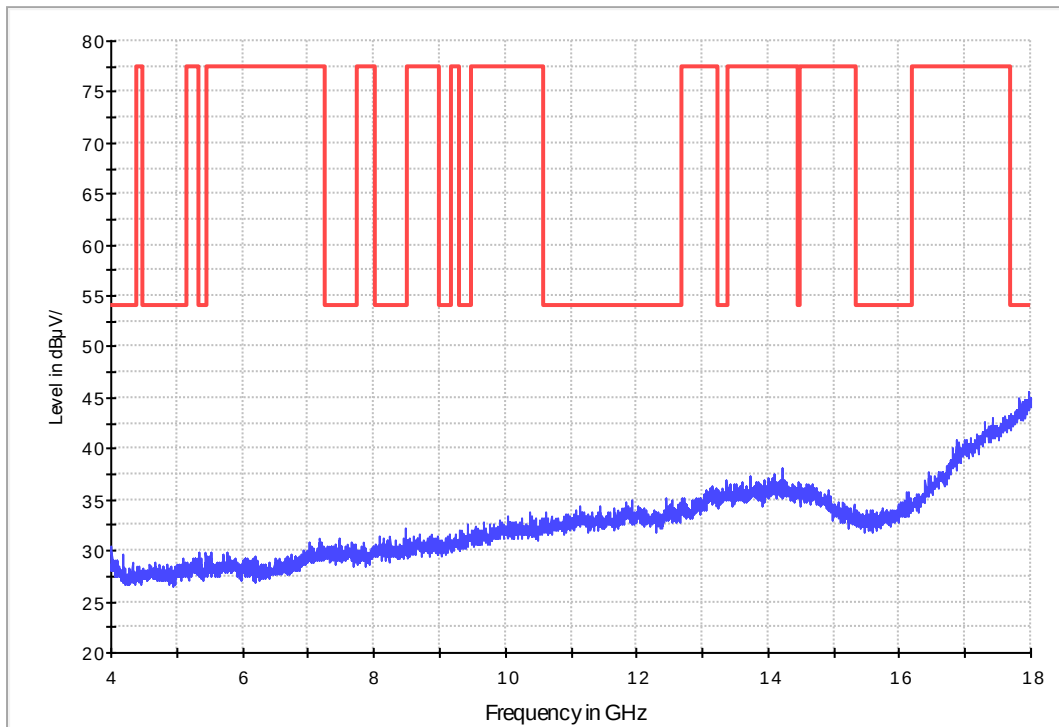


Fig. 125 Radiated Spurious Emission (802.11n-20MHz, Ch6, 4 GHz-18 GHz)

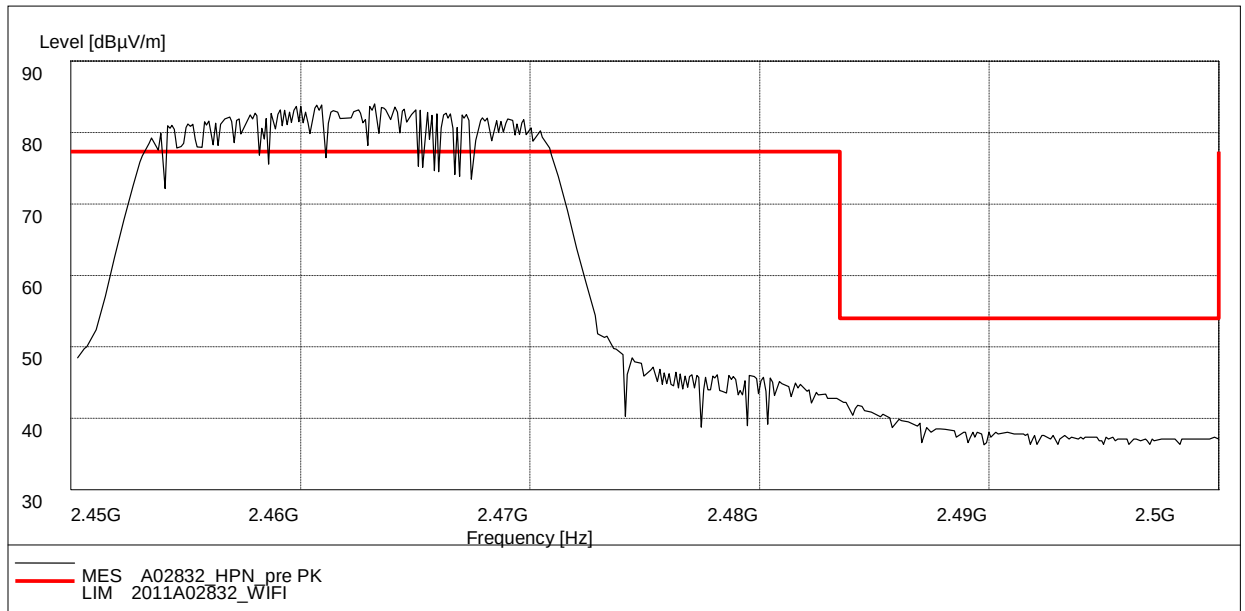


Fig. 126 Radiated Spurious Emission (Power): 802.11n-20MHz, ch11, 2.45 GHz - 2.50GHz

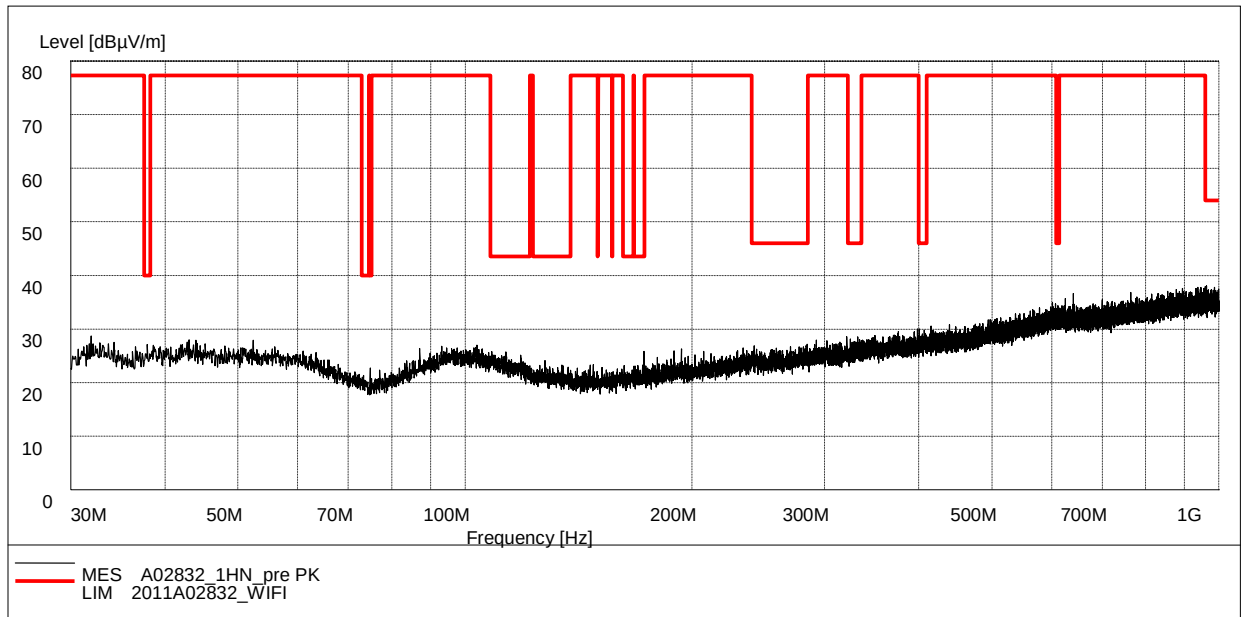


Fig. 127 Radiated Spurious Emission (802.11n-20MHz, Ch11, 30 MHz-1 GHz)

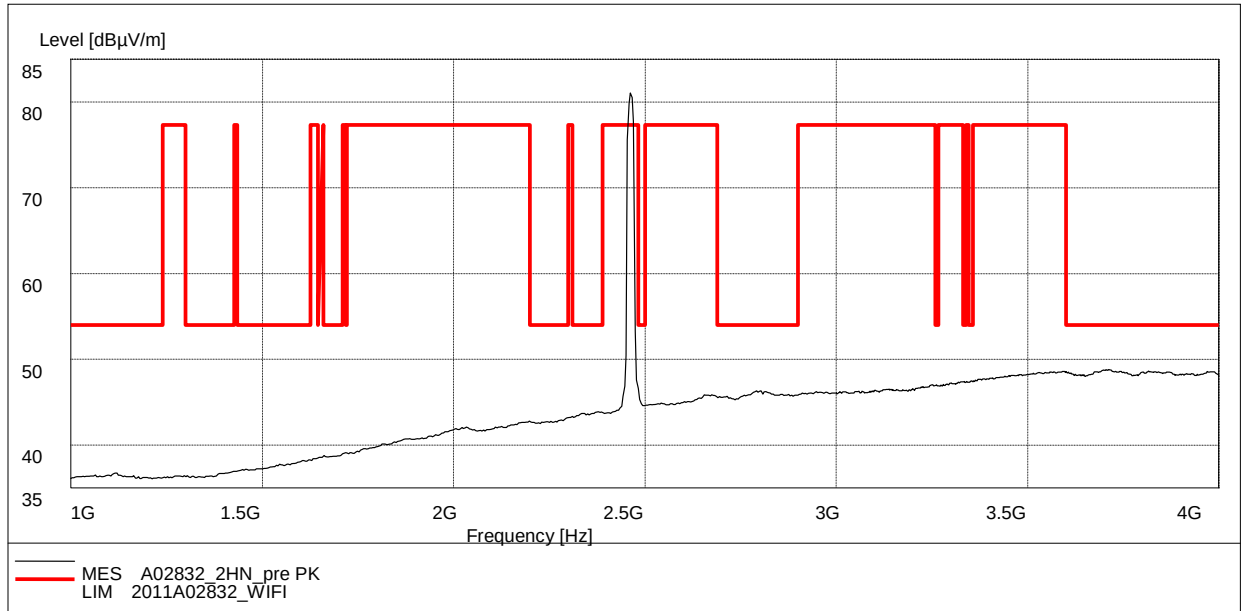


Fig. 128 Radiated Spurious Emission (802.11n-20MHz, Ch11, 1 GHz-4 GHz)

FCC 4-18G

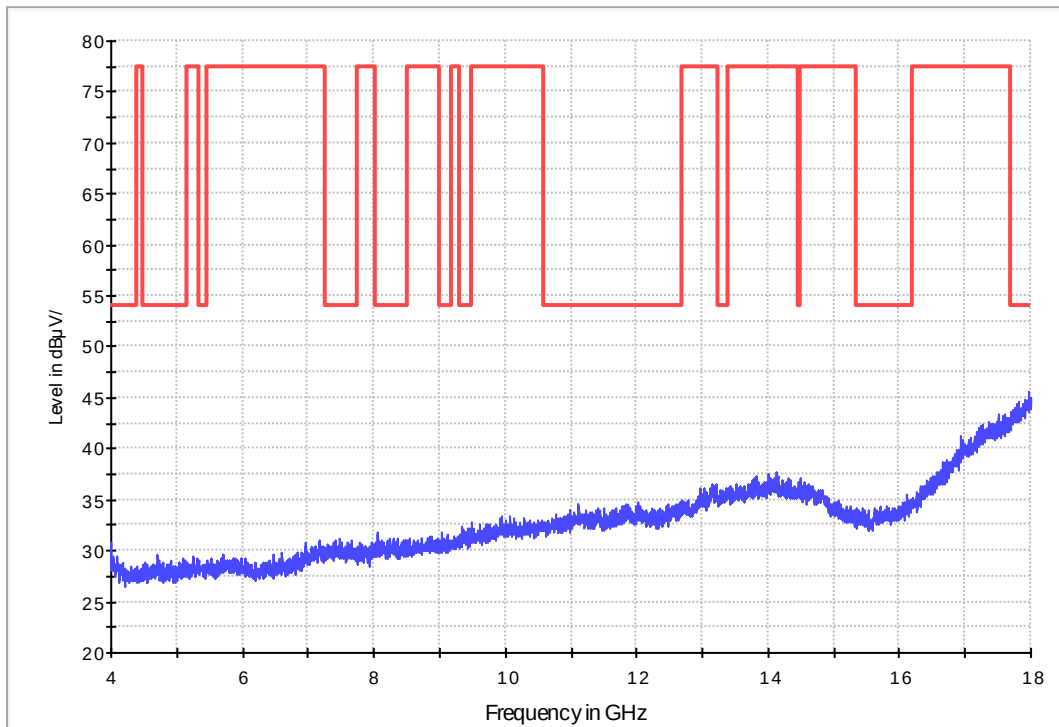


Fig. 129 Radiated Spurious Emission (802.11n-20MHz, Ch11, 4 GHz-18 GHz)

Copy (5) of Copy of FCC 18-26.5G

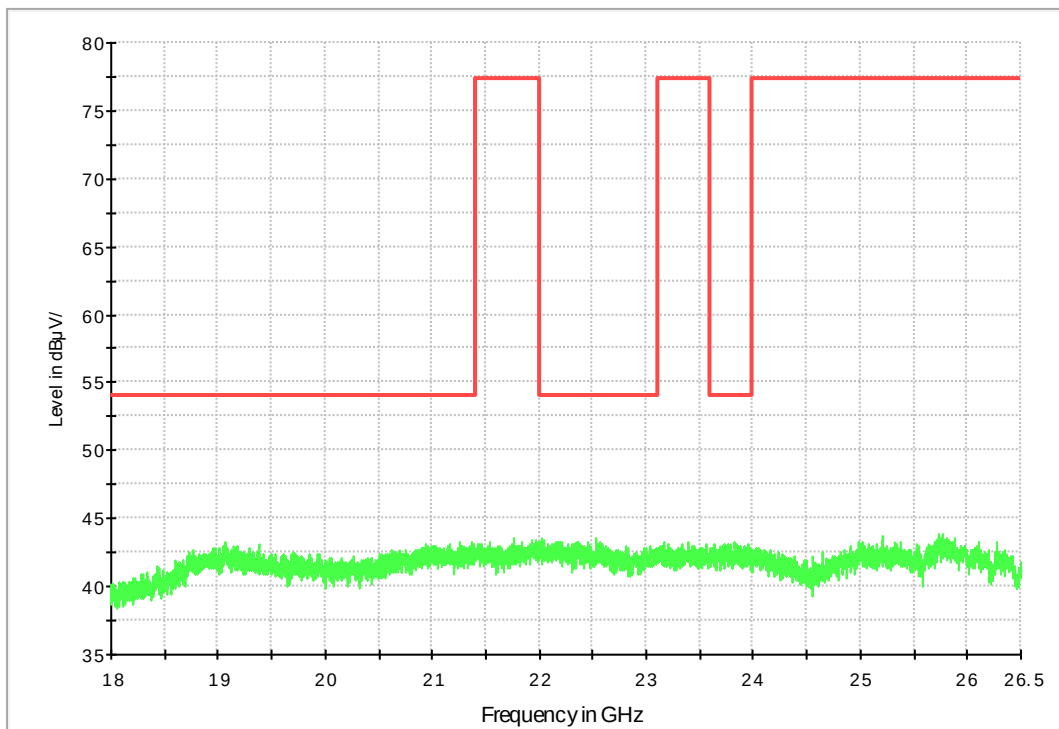


Fig. 130 Radiated emission: 18 GHz - 26.5 GHz

A.7. AC Powerline Conducted Emission

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement Result and limit:

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)			Conclusion
		With charger			
		802.11b	802.11g	802.11n	
0.15 to 0.5	66 o 56	Fig. 131	Fig.132	Fig.133	P
0.5 to 5	56				
5 to 30	60				

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

WLAN (Average Limit)

Frequency range (MHz)	Average Limit (dBμV)	Result (dBμV)			Conclusion
		With charger			
		802.11b	802.11g	802.11n	
0.15 to 0.5	56 to 46	Fig.131	Fig.132	Fig.133	P
0.5 to 5	46				
5 to 30	50				

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

The measurement is made according to ANSI C63.4 and KDB558074

Conclusion: PASS

Test graphs as below:

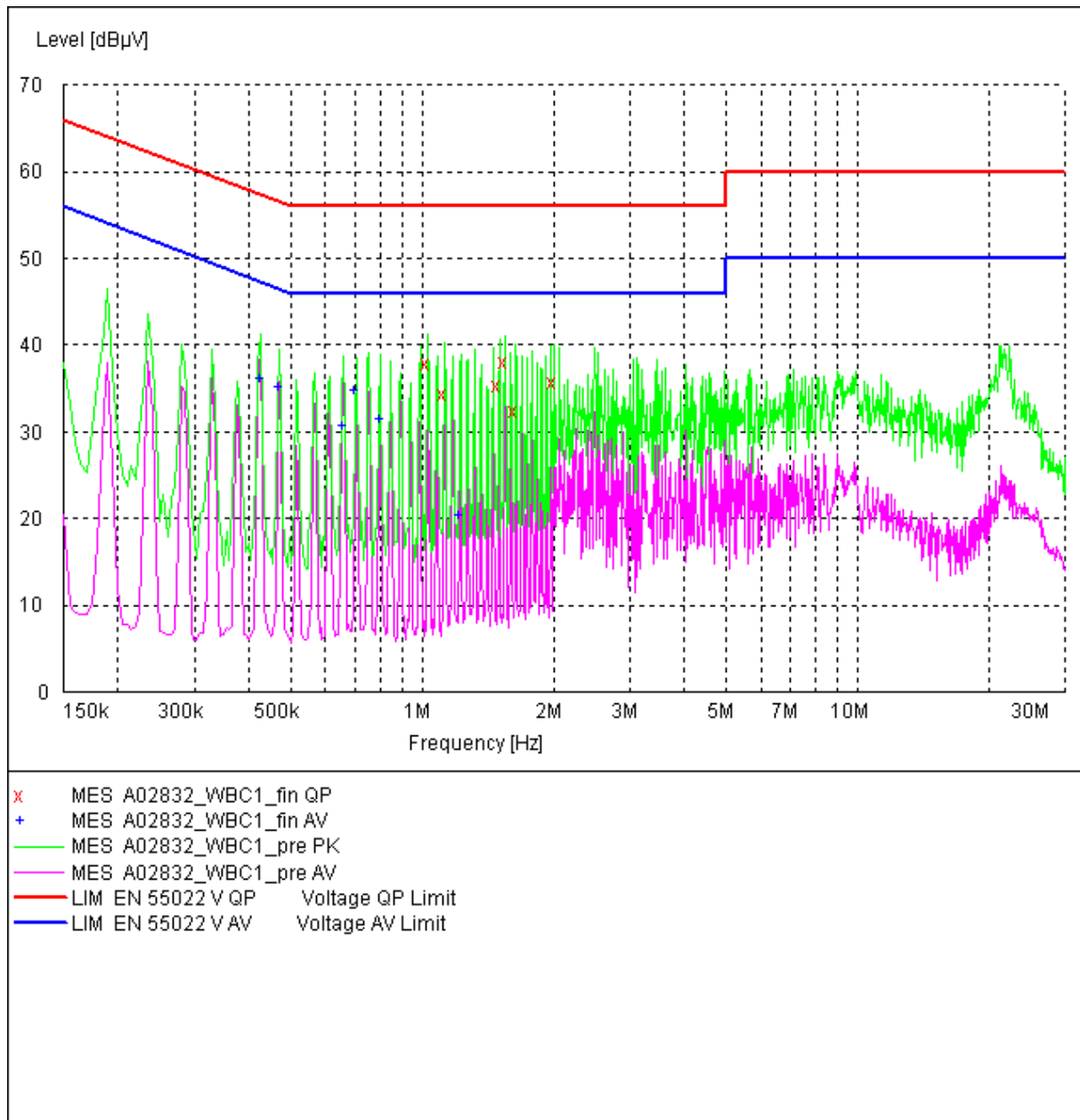


Fig. 131 AC Powerline Conducted Emission-802.11b

MEASUREMENT RESULT: " EN 55022 V Fin 2-Z5 "

Frequency (MHz)	Level (dBμV)	Transd (dB)	Limit (dBμV)	Margin (dB)	Line	PE
1.035000	37.90	10.1	56	18.1	L1	GND
1.130000	34.30	10.1	56	21.7	L1	GND
1.505000	35.40	10.1	56	20.6	L1	GND
1.550000	38.10	10.1	56	17.9	L1	GND
1.645000	32.50	10.1	56	23.5	N	GND
2.020050	35.70	10.1	56	20.3	L1	GND

MEASUREMENT RESULT: " EN 55022 V Fin 2-Z5"

Frequency (MHz)	Level (dB μ V)	Transd (dB)	Limit (dB μ V)	Margin (dB)	Line	PE
0.425000	36.20	10.1	47	11.2	N	GND
0.470000	35.20	10.1	47	11.4	L1	GND
0.660000	30.70	10.1	46	15.3	N	GND
0.705000	34.70	10.1	46	11.3	N	GND
0.800000	31.40	10.1	46	14.6	N	GND
1.225000	20.40	10.1	46	25.6	N	GND

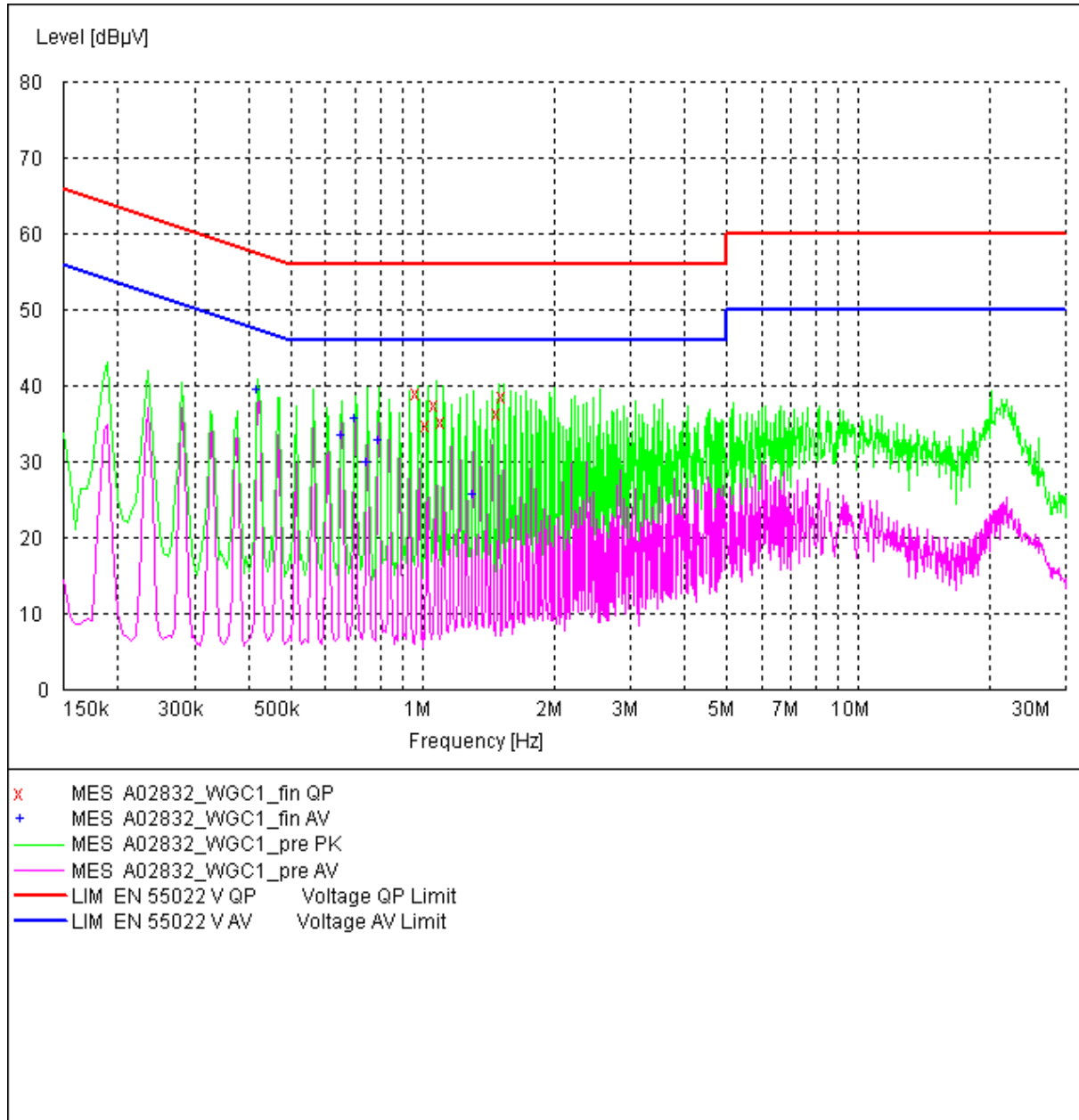


Fig. 132 AC Powerline Conducted Emission-802.11g

MEASUREMENT RESULT: "A02832_WGC1_fin QP"

Frequency (MHz)	Level (dBμV)	Transd (dB)	Limit (dBμV)	Margin (dB)	Line	PE
0.980000	39.10	10.1	56	16.9	L1	GND
1.030000	34.90	10.1	56	21.1	L1	GND
1.075000	37.40	10.1	56	18.6	L1	GND
1.120000	35.30	10.1	56	20.7	N	GND
1.495000	36.50	10.1	56	19.5	L1	GND
1.540000	38.50	10.1	56	17.5	L1	GND

MEASUREMENT RESULT: " A02832_WGC1_fin AV"

Frequency (MHz)	Level (dBμV)	Transd (dB)	Limit (dBμV)	Margin (dB)	Line	PE
0.420000	39.50	10.1	47	8	N	GND
0.655000	33.60	10.1	46	12.4	N	GND
0.700000	35.80	10.1	46	10.2	N	GND
0.750000	30.00	10.1	46	16	N	GND
0.795000	32.80	10.1	46	13.2	N	GND
1.310000	25.60	10.1	46	20.4	N	GND

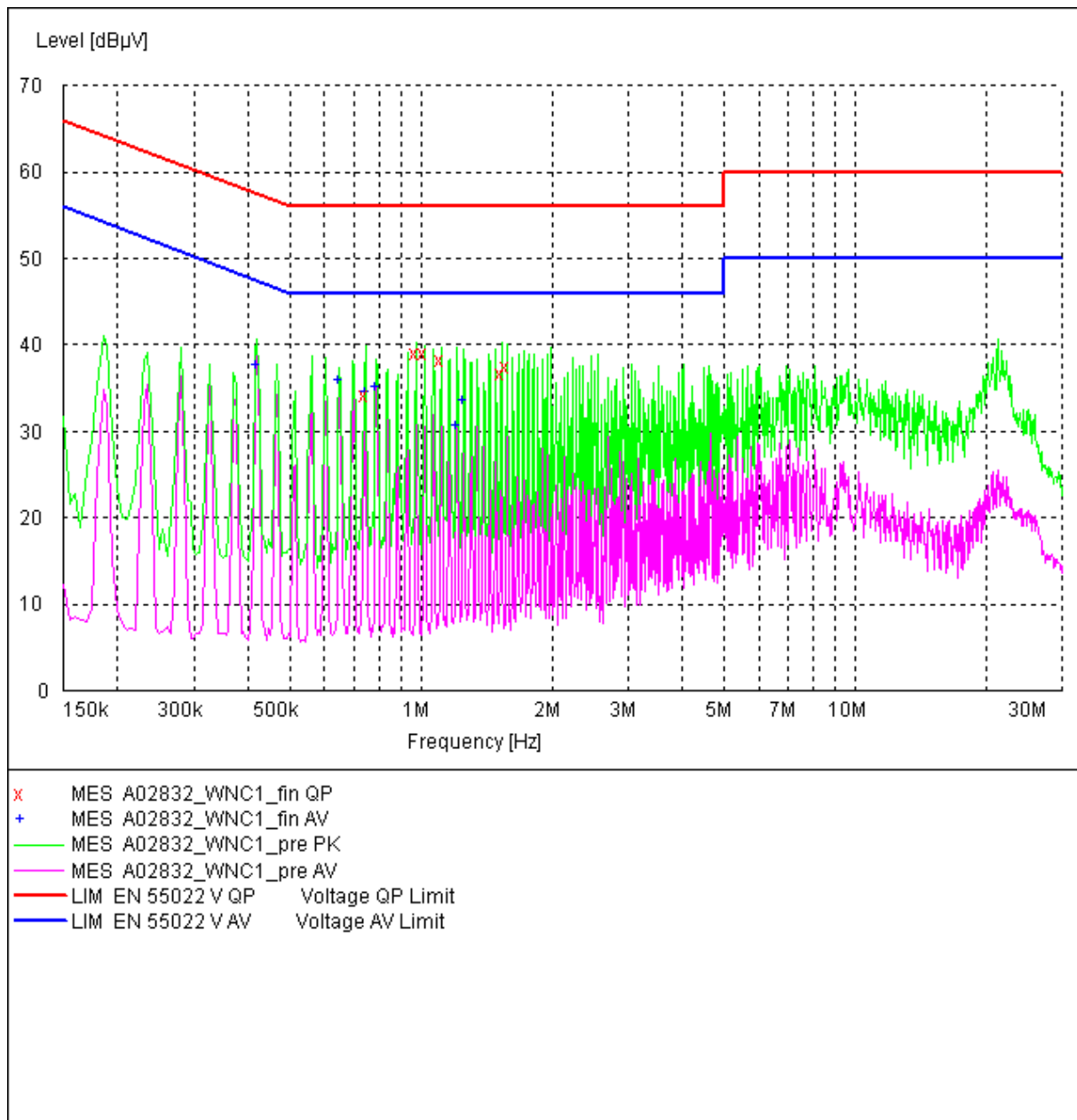


Fig. 133 AC Powerline Conducted Emission-802.11n-20MHz

MEASUREMENT RESULT: " A02832_WNC1_fin QP "

Frequency (MHz)	Level (dBμV)	Transd (dB)	Limit (dBμV)	Margin (dB)	Line	PE
0.745000	34.20	10.1	56	21.8	L1	GND
0.975000	39.00	10.1	56	17	L1	GND
1.020000	39.10	10.1	56	16.9	L1	GND
1.115000	38.20	10.1	56	17.8	L1	GND
1.535000	36.60	10.1	56	19.4	L1	GND
1.580000	37.50	10.1	56	18.5	L1	GND

MEASUREMENT RESULT: " A02832_WNC1_fin AV "

Frequency (MHz)	Level (dBμV)	Transd (dB)	Limit (dBμV)	Margin (dB)	Line	PE
0.420000	37.70	10.1	47	9.7	N	GND
0.650000	35.90	10.1	46	10.1	N	GND
0.745000	34.50	10.1	46	11.5	N	GND
0.790000	35.20	10.1	46	10.8	N	GND
1.210000	30.70	10.1	46	15.3	N	GND
1.255000	33.50	10.1	46	12.5	N	GND

*** END OF REPORT BODY ***