



**FCC PART 15C
TEST REPORT
No. I15N01185-WLAN**

for

Huawei Technologies Co.,Ltd.

WCDMA Mobile Phone

Model Name: HUAWEI Y360-U103

With

Hardware Version: VER.A

Software Version: Y360-U103V100R001C01B108

FCC ID: QISY360-U103

Issued Date: Nov 27th, 2015

Test Laboratory:

FCC 2.948 Listed: No.342690

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 CTTL.

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REPORT HISTORY

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1. Test Laboratory

1.1.

Location1: CTTL(South Branch)

Address: TCL International E city No. 1001 Zhongshanyuan Road, Nanshan
District, Shenzhen, Guangdong, China 518000

1.2. Testing Environment

Normal Temperature: 15-35℃

Extreme Temperature -20/+55℃

Relative Humidity: 20-75%

1.3. Project data

Testing Start Date: 2015-11-03

Testing End Date: 2015-11-27

1.4. Signature



Xu Ye

(Prepared this test report)

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2. Client Information

2.1. Applicant Information

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2.2. Manufacturer Information

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

3.1. About EUT

Description	WCDMA Mobile Phone
Model Name	HUAWEI Y360-U103
Market Name	Y3 lite
RF Protocol	IEEE 802.11b/g/n20
Operating Frequency	2412MHz~2462MHz
FCC ID	QISY360-U103

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

3.2. Internal Identification of EUT

EUT ID*	IMEI	HW Version	SW Version
EUT1	/	VER.A	Y360-U103V100R001C01B108

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

3.3. Internal Identification of AE

AE ID*	Description	Type	SN
AE1	Charger	HW-050055U1W_BYD	/
AE2	Charger	HW-050055U1W_Huntkey	/
AE3	Charger	HW-050055R1W_Shilong	/
		Fuhua	
AE4	Charger	HW-050055A1W_BYD	/
AE5	Charger	HW-050055E1W_BYD	/
AE6	Charger	HW-050055E1W_Huntkey	/
AE7	Charger	HW-050055R1W_BYD	/
AE8	Charger	HW-050055A1W_Shilong	/
		Fuhua	

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

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.

Reference	Title	Version
FCC Part15	FCC CFR 47, Part 15, Subpart C: 15.205 Restricted bands of operation; 15.209 Radiated emission limits, general requirements; 15.247 Operation within the bands 902–928MHz, 2400–2483.5 MHz, and 5725–5850 MHz.	Oct, 2014
ANSI C63.10	American National Standard for Testing Unlicensed Wireless Devices	Jun,2013

5. Test Results

5.1. Summary of Test Results

No	Test cases	Standard Sub-clause	Verdict
0	Antenna Requirement	15.203	P
1	Maximum Peak Output Power	15.247 (b)	P
2	Peak Power Spectral Density	15.247 (e)	P
3	Occupied 6dB Bandwidth	15.247 (a)	P
4	Band Edges Compliance	15.247 (d)	P
5	Transmitter Spurious Emission - Conducted	15.247 (d)	P
6	Transmitter Spurious Emission - Radiated	15.247, 15.205, 15.209	P
7	AC Powerline Conducted Emission	15.107, 15.207	P

See **ANNEX B** and **ANNEX C** for details.

5.2. Statements

CTTL has evaluated the test cases requested by the applicant/manufacturer as listed in section 5.1 of this report, for the EUT specified in section 3, according to the standards or reference documents listed in section 4.2

5.3. Terms used in the result table

Terms used in Verdict column

P	Pass
NA	Not Available
F	Fail

Abbreviations

AC	Alternating Current
AFH	Adaptive Frequency Hopping
BW	Band Width
E.I.R.P.	equivalent isotropical radiated power
ISM	Industrial, Scientific and Medical
R&TTE	Radio and Telecommunications Terminal Equipment
RF	Radio Frequency
Tx	Transmitter

5.4.Laboratory Environment

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

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 15 %, Max. = 75 %
Shielding effectiveness	0.014MHz - 1MHz, >60dB; 1MHz - 1000MHz, >90dB.
Electrical insulation	> 2 M
Ground system resistance	< 4
Normalised site attenuation (NSA)	< $\pm$ 4 dB, 3m/10m distance, from 30 to 1000 MHz
Site voltage standing-wave ratio (S_{VSWR})	Between 0 and 6 dB, from 1GHz to 18GHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 3000 MHz

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

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz - 1MHz, >60dB; 1MHz - 1000MHz, >90dB.
Electrical insulation	> 2 M
Ground system resistance	< 4

6. Test Facilities Utilized

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1	Vector Signal Analyzer	FSV40	100903	Rohde & Schwarz	2016-04-21	1 year

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1	Chamber	FACT5-2.0	4166	ETS-Lindgren	2018-05-13	3 years
2	Test Receiver	ESCI	100701	Rohde & Schwarz	2016-08-10	1 year
3	BiLog Antenna	VULB9163	9163 329	Schwarzbeck	2017-01-20	3 years
4	Horn Antenna	3117	00066577	ETS-Lindgren	2016-04-01	3 years
5	Universal Radio Communication Tester	CMU200	114544	Rohde & Schwarz	2016-09-10	1 year
6	Universal Radio Communication Tester	CMW500	152499	Schwarzbeck	2016-07-23	1 year
7	Spectrum Analyser	FSP40	100378	Rohde & Schwarz	2015-12-19	1 year

Anechoic chamber

Fully anechoic chamber by ETS-Lindgren.

7. Measurement Uncertainty

Test Name	Uncertainty	
1.Maximum Peak Output Power	$\pm 1.32\text{dB}$	
2.Peak Power Spectral Density	$\pm 0.66\text{dBm/MHz}$	
3.Occupied 6dB Bandwidth	$\pm 66\text{Hz}$	
4.Band Edges Compliance	$\pm 66\text{Hz}$	
5.Transmitter Spurious Emission - Conducted	$30\text{MHz} \leq f \leq 1\text{GHz}$	$\pm 1.41\text{dB}$
	$1\text{GHz} \leq f \leq 18\text{GHz}$	$\pm 1.92\text{dB}$
	$18\text{GHz} \leq f \leq 26\text{GHz}$	$\pm 2.31\text{dB}$
6.Transmitter Spurious Emission - Radiated	$9\text{k} \leq f \leq 30\text{MHz}$	$\pm 4.00\text{dB}$
	$30\text{M} \leq f \leq 1\text{GHz}$	$\pm 5.08\text{dB}$
	$1\text{GHz} \leq f \leq 18\text{GHz}$	$\pm 4.56\text{dB}$
	$18\text{GHz} \leq f \leq 26\text{GHz}$	$\pm 4.56\text{dB}$
7.AC Powerline Conducted Emission	$\pm 2.7\text{dB}$	

ANNEX A: MEASUREMENT RESULTS FOR RECEIVER

A.0 Antenna requirement

Measurement Limit:

Standard	Requirement
FCC CRF Part 15.203	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. 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 manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, § 15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

**Conclusion: The Directional gains of antenna used for transmitting is 3.01 dBi.
The RF transmitter uses an integrate antenna without connector.**

A.1 Maximum Average Output Power

Measurement Limit:

Standard	Limit (dBm)
FCC CRF Part 15.247(b)(1)	< 30

Measurement Results:

802.11b/g mode

Mode	Data Rate (Mbps)	Test Result (dBm)					
		2412MHz (Ch1)		2437MHz (Ch6)		2462 MHz (Ch11)	
802.11b	1	Fig.1	14.97	Fig.2	16.95	Fig.3	15.30
	2	Fig.4	14.76	Fig.5	16.66	Fig.6	15.28
	5.5	Fig.7	14.91	Fig.8	16.64	Fig.9	15.36
	11	Fig.10	14.74	Fig.11	16.67	Fig.12	15.39
802.11g	6	Fig.13	9.66	Fig.14	13.91	Fig.15	10.18
	9	Fig.16	9.70	Fig.17	13.95	Fig.18	10.23
	12	Fig.19	9.73	Fig.20	13.56	Fig.21	10.18
	18	Fig.22	9.77	Fig.23	13.71	Fig.24	10.18
	24	Fig.25	9.77	Fig.26	13.57	Fig.27	10.07
	36	Fig.28	9.82	Fig.29	13.63	Fig.30	10.21
	48	Fig.31	9.64	Fig.32	13.70	Fig.33	10.16
	54	Fig.34	9.68	Fig.35	13.77	Fig.36	10.15

802.11n mode

Mode	Data Rate (MCS Index)	Test Result (dBm)					
		2412MHz (Ch1)		2437MHz (Ch6)		2462 MHz (Ch11)	
802.11n (20MHz)	MCS0	Fig.37	9.67	Fig.38	12.06	Fig.39	10.17
	MCS1	Fig.40	9.72	Fig.41	12.13	Fig.42	10.20
	MCS2	Fig.43	9.74	Fig.44	12.24	Fig.45	10.25
	MCS3	Fig.46	9.72	Fig.47	12.26	Fig.48	10.26
	MCS4	Fig.49	9.61	Fig.50	11.94	Fig.51	10.21
	MCS5	Fig.52	9.67	Fig.53	11.76	Fig.54	10.30
	MCS6	Fig.55	9.72	Fig.56	11.74	Fig.57	10.30
	MCS7	Fig.58	9.71	Fig.59	11.82	Fig.60	10.21

See ANNEX C for test graphs.

Conclusion: PASS

A.2 Peak Power Spectral Density**Measurement Limit:**

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

Measurement Results:**802.11b/g mode**

Mode	Channel	Peak Power Spectral Density (dBm)		Conclusion
802.11b	1	Fig.61	-10.36	P
	6	Fig.62	-10.06	P
	11	Fig.63	-10.54	P
802.11g	1	Fig.64	-13.76	P
	6	Fig.65	-13.90	P
	11	Fig.66	-13.68	P

802.11n mode

Mode	Channel	Peak Power Spectral Density(dBm)		Conclusion
802.11n (20MHz)	1	Fig.67	-14.18	P
	6	Fig.68	-11.60	P
	11	Fig.69	-13.37	P

See ANNEX C for test graphs.

Conclusion: PASS

A.3 Occupied 6dB Bandwidth

Measurement Limit:

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

Measurement Result:

802.11b/g mode

Mode	Channel	Test Results (kHz)		conclusion
802.11b	1	Fig.70	8336	P
	6	Fig.71	8205	P
	11	Fig.72	8813	P
802.11g	1	Fig.73	15890	P
	6	Fig.74	16411	P
	11	Fig.75	16151	P

802.11n mode

Mode	Channel	Test Results (kHz)		conclusion
802.11n (20MHz)	1	Fig.76	17410	P
	6	Fig.77	17627	P
	11	Fig.78	17410	P

See ANNEX C for test graphs.

Conclusion: PASS

A.4 Band Edges Compliance

Measurement Limit:

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

Measurement Result:

802.11b/g mode

Mode	Channel	Test Results	Conclusion
802.11b	1	Fig.79	P
	11	Fig.80	P
802.11g	1	Fig.81	P
	11	Fig.82	P

802.11n mode

Mode	Channel	Test Results	Conclusion
802.11n (20MHz)	1	Fig.83	P
	11	Fig.84	P

See ANNEX C for test graphs.

Conclusion: PASS

A.5 Transmitter Spurious Emission

A.5.1 Transmitter Spurious Emission - Conducted

Measurement Limit:

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

Measurement Results:

802.11b/g mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11b	1	2.412 GHz	Fig.85	P
		30 MHz-3 GHz	Fig.86	P
		3GHz-18GHz	Fig.87	P
	6	2.437 GHz	Fig.88	P
		30 MHz-3 GHz	Fig.89	P
		3GHz-18GHz	Fig.90	P
	11	2.462 GHz	Fig.91	P
		30 MHz-3 GHz	Fig.92	P
		3GHz-18GHz	Fig.93	P
802.11g	1	2.412 GHz	Fig.94	P
		30 MHz-3 GHz	Fig.95	P
		3GHz-18GHz	Fig.96	P
	6	2.437 GHz	Fig.97	P
		30 MHz-3 GHz	Fig.98	P
		3GHz-18GHz	Fig.99	P
	11	2.462 GHz	Fig.100	P
		30 MHz-3 GHz	Fig.101	P
		3GHz-18GHz	Fig.102	P

802.11n mode

802.11n (20MHz)	1	2.412 GHz	Fig.103	P
		30 MHz-3 GHz	Fig.104	P
		3GHz-18GHz	Fig.105	P
	6	2.437 GHz	Fig.106	P
		30 MHz-3 GHz	Fig.107	P
		3GHz-18GHz	Fig.108	P
	11	2.462 GHz	Fig.109	P
		30 MHz-3 GHz	Fig.110	P
		3GHz-18GHz	Fig.111	P
/	All channels	18GHz-26GHz	Fig.112	P

See ANNEX C for test graphs.

Conclusion: PASS

A.5.2 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)).

Limit in restricted band:

Frequency of emission (MHz)	Field strength(μ V/m)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

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	120kHz/300kHz	5
1000-4000	1MHz/3MHz	15
4000-18000	1MHz/3MHz	40
18000-26500	1MHz/3MHz	20

Note:

According to the performance evaluation, the radiated emission margin of EUT is over 20dB in the band below 30MHz. Therefore, the measurement starts from 30MHz to tenth harmonic.

The measurement results include the horizontal polarization and vertical polarization measurements.

Measurement Results:
802.11b/g mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11b	1	1 GHz ~ 18 GHz	Fig.113	P
	6	9 kHz ~30 MHz	Fig.114	P
		30 MHz ~1 GHz	Fig.115	P
		1 GHz ~ 18 GHz	Fig.116	P
		18 GHz~ 26.5 GHz	Fig.117	P
	11	1 GHz ~ 18 GHz	Fig.118	P
	Power(CH1)	2.38 GHz ~ 2.45 GHz	Fig.119	P
	Power(CH11)	2.45 GHz ~ 2.5 GHz	Fig.120	P
802.11g	1	1 GHz ~ 18 GHz	Fig.121	P
	6	30 MHz ~1 GHz	Fig.122	P
		1 GHz ~ 18 GHz	Fig.123	P
		18 GHz~ 26.5 GHz	Fig.124	P
	11	1 GHz ~ 18 GHz	Fig.125	P
	Power(CH1)	2.38 GHz ~ 2.45 GHz	Fig.126	P
	Power(CH11)	2.45 GHz ~ 2.5 GHz	Fig.127	P

802.11n mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (20MHz)	1	1 GHz ~ 18 GHz	Fig.128	P
	6	30 MHz ~1 GHz	Fig.129	P
		1 GHz ~ 18 GHz	Fig.130	P
		18 GHz~ 26.5 GHz	Fig.131	P
	11	1 GHz ~ 18 GHz	Fig.132	P
	Power(CH1)	2.38 GHz ~ 2.45 GHz	Fig.133	P
	Power(CH11)	2.45 GHz ~ 2.5 GHz	Fig.134	P

802.11b CH1 (1-18GHz)

Frequency (MHz)	MaxPeak-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14005.000000	56.9	V	10.9	17.1	74.0
15123.000000	56.7	V	12.1	17.3	74.0
15701.000000	58.4	V	12.8	15.6	74.0
15874.000000	58.6	H	13.1	15.4	74.0
16673.000000	59.3	V	13.9	14.7	74.0
17405.000000	60.2	H	14.3	13.8	74.0

Frequency (MHz)	Average-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14546.000000	44.2	H	11.8	9.8	54.0
15153.000000	44.9	V	12.1	9.1	54.0
15699.000000	46.4	V	12.8	7.6	54.0
16220.000000	46.9	V	13.3	7.1	54.0
16752.000000	47.4	V	14.0	6.6	54.0
17342.000000	47.0	V	14.2	7.0	54.0

802.11b CH 6(1-18GHz)

Frequency (MHz)	MaxPeak-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14406.000000	56.4	H	11.5	17.6	74.0
15142.000000	56.3	V	12.1	17.7	74.0
15681.000000	58.1	H	12.8	15.9	74.0
16208.000000	58.6	H	13.3	15.4	74.0
16848.000000	58.2	V	14.0	15.8	74.0
17337.000000	58.7	V	14.2	15.3	74.0

Frequency (MHz)	Average-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14535.000000	43.8	V	11.8	10.2	54.0
15126.000000	44.5	H	12.1	9.5	54.0
15734.000000	46.1	V	12.9	7.9	54.0
16236.000000	46.0	V	13.3	8.0	54.0
16741.000000	46.5	V	14.0	7.5	54.0
17329.000000	46.2	V	14.2	7.8	54.0

802.11b CH11 (1-18GHz)

Frequency (MHz)	MaxPeak-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14474.000000	56.0	V	11.6	18.0	74.0
15070.000000	57.0	H	12.0	17.0	74.0
15767.000000	58.2	H	12.9	15.8	74.0
16261.000000	58.2	V	13.4	15.8	74.0
16852.000000	59.1	V	14.0	14.9	74.0
17334.000000	58.4	H	14.2	15.6	74.0

Frequency (MHz)	Average-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14551.000000	44.1	V	11.8	9.9	54.0
15141.000000	44.6	V	12.1	9.4	54.0
15729.000000	46.2	V	12.9	7.8	54.0
16211.000000	46.5	V	13.3	7.5	54.0
16786.000000	46.9	V	14.0	7.1	54.0
17342.000000	46.6	V	14.2	7.4	54.0

802.11g CH1 (1-18GHz)

Frequency (MHz)	MaxPeak-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14540.000000	56.2	H	11.8	17.8	74.0
14996.000000	56.6	H	11.9	17.4	74.0
15685.000000	59.3	V	12.8	14.7	74.0
16312.000000	58.5	H	13.5	15.5	74.0
16668.000000	59.5	V	13.9	14.5	74.0
17454.000000	59.5	V	14.3	14.5	74.0

Frequency (MHz)	Average-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14539.000000	44.1	V	11.8	9.9	54.0
15138.000000	44.8	H	12.1	9.2	54.0
15689.000000	46.3	V	12.8	7.7	54.0
16193.000000	46.8	V	13.3	7.2	54.0
16796.000000	47.3	V	14.0	6.7	54.0
17298.000000	47.1	V	14.1	6.9	54.0

802.11g CH6 (1-18GHz)

Frequency (MHz)	MaxPeak-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14523.000000	55.8	H	11.7	18.2	74.0
15130.000000	56.9	V	12.1	17.1	74.0
15746.000000	57.8	V	12.9	16.2	74.0
16285.000000	58.7	H	13.4	15.3	74.0
16602.000000	58.3	H	13.8	15.7	74.0
17407.000000	58.4	H	14.3	15.6	74.0

Frequency (MHz)	Average-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14524.000000	43.8	V	11.7	10.2	54.0
15126.000000	44.7	H	12.1	9.3	54.0
15757.000000	46.1	H	12.9	7.9	54.0
16208.000000	46.2	V	13.3	7.8	54.0
16741.000000	46.7	V	14.0	7.3	54.0
17352.000000	46.5	V	14.2	7.5	54.0

802.11g CH11 (1-18GHz)

Frequency (MHz)	MaxPeak-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14159.000000	55.7	H	11.2	18.3	74.0
15168.000000	56.5	V	12.1	17.5	74.0
15783.000000	58.4	H	13.0	15.6	74.0
16289.000000	58.8	H	13.4	15.2	74.0
16852.000000	58.0	H	14.0	16.0	74.0
17342.000000	58.2	H	14.2	15.8	74.0

Frequency (MHz)	Average-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14537.000000	43.7	V	11.8	10.3	54.0
15124.000000	44.4	V	12.1	9.6	54.0
15691.000000	45.8	H	12.8	8.2	54.0
16236.000000	45.9	V	13.3	8.1	54.0
16746.000000	46.2	V	14.0	7.8	54.0
17357.000000	46.0	V	14.2	8.0	54.0

802.11n-20MHz CH1 (1-18GHz)

Frequency (MHz)	MaxPeak-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14134.000000	55.7	H	11.2	18.3	74.0
15070.000000	56.9	H	12.0	17.1	74.0
15749.000000	58.2	V	12.9	15.8	74.0
16200.000000	58.1	H	13.3	15.9	74.0
16758.000000	58.5	V	14.0	15.5	74.0
17329.000000	58.1	H	14.2	15.9	74.0

Frequency (MHz)	Average-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14529.000000	43.5	V	11.7	10.5	54.0
15105.000000	44.3	H	12.0	9.7	54.0
15747.000000	46.0	H	12.9	8.0	54.0
16205.000000	45.9	H	13.3	8.1	54.0
16746.000000	46.2	H	14.0	7.8	54.0
17342.000000	45.9	H	14.2	8.1	54.0

802.11n-20MHz CH6 (1-18GHz)

Frequency (MHz)	MaxPeak-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14117.000000	56.3	H	11.2	17.7	74.0
15144.000000	56.8	H	12.1	17.2	74.0
15783.000000	58.5	V	13.0	15.5	74.0
16257.000000	57.8	H	13.3	16.2	74.0
16753.000000	58.5	H	14.0	15.5	74.0
17415.000000	58.1	H	14.3	15.9	74.0

Frequency (MHz)	Average-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14527.000000	43.4	H	11.7	10.6	54.0
15134.000000	44.2	H	12.1	9.8	54.0
15739.000000	45.9	V	12.9	8.1	54.0
16200.000000	45.8	H	13.3	8.2	54.0
16791.000000	46.2	H	14.0	7.8	54.0
17388.000000	45.8	V	14.3	8.2	54.0

802.11n-20MHz CH11 (1-18GHz)

Frequency (MHz)	MaxPeak-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14479.000000	55.8	V	11.7	18.2	74.0
15163.000000	57.2	V	12.1	16.8	74.0
15708.000000	58.1	V	12.8	15.9	74.0
16188.000000	58.2	V	13.3	15.8	74.0
16789.000000	58.7	V	14.0	15.3	74.0
17401.000000	58.7	V	14.3	15.3	74.0

Frequency (MHz)	Average-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14547.000000	44.0	V	11.8	10.0	54.0
15163.000000	44.7	V	12.1	9.3	54.0
15693.000000	46.2	V	12.8	7.8	54.0
16205.000000	46.7	V	13.3	7.3	54.0
16741.000000	47.3	V	14.0	6.7	54.0
17332.000000	46.9	V	14.2	7.1	54.0

See ANNEX C for test graphs.

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

A.6 AC Powerline Conducted Emission

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement Result and limit:

WLAN (Quasi-peak Limit)-AE1

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)	Conclusion
		Traffic	
0.15 to 0.5	Fig.66 to 56	Fig.135	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)-AE1

Frequency range (MHz)	Average-peak Limit (dBμV)	Result (dBμV)	Conclusion
		Traffic	
0.15 to 0.5	56 to 46	Fig.135	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.			

WLAN (Quasi-peak Limit)-AE2

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)	Conclusion
		Traffic	
0.15 to 0.5	Fig.67 to 56	Fig.136	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)-AE2

Frequency range (MHz)	Average-peak Limit (dBμV)	Result (dBμV)	Conclusion
		Traffic	
0.15 to 0.5	56 to 46	Fig.136	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.			

WLAN (Quasi-peak Limit)-AE3

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)	Conclusion
		Traffic	
0.15 to 0.5	Fig.68 to 56	Fig.137	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)-AE3

Frequency range (MHz)	Average-peak Limit (dBμV)	Result (dBμV)	Conclusion
		Traffic	
0.15 to 0.5	56 to 46	Fig.137	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.			

WLAN (Quasi-peak Limit)-AE1-idle

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)	Conclusion
		Idle	
0.15 to 0.5	Fig.69 to 56	Fig.138	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)-AE1-idle

Frequency range (MHz)	Average-peak Limit (dBμV)	Result (dBμV)	Conclusion
		Idle	
0.15 to 0.5	56 to 46	Fig.138	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.

WLAN (Quasi-peak Limit)-AE2-idle

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)	Conclusion
		Idle	
0.15 to 0.5	Fig.70 to 56	Fig.139	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)-AE2-idle

Frequency range (MHz)	Average-peak Limit (dBμV)	Result (dBμV)	Conclusion
		Idle	
0.15 to 0.5	56 to 46	Fig.139	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.			

WLAN (Quasi-peak Limit)-AE3-idle

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)	Conclusion
		Idle	
0.15 to 0.5	Fig.71 to 56	Fig.140	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)-AE3-idle

Frequency range (MHz)	Average-peak Limit (dBμV)	Result (dBμV)	Conclusion
		Idle	
0.15 to 0.5	56 to 46	Fig.140	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.			

See ANNEX C for test graphs.

Conclusion: PASS

ANNEX B: TEST LAYOUTS

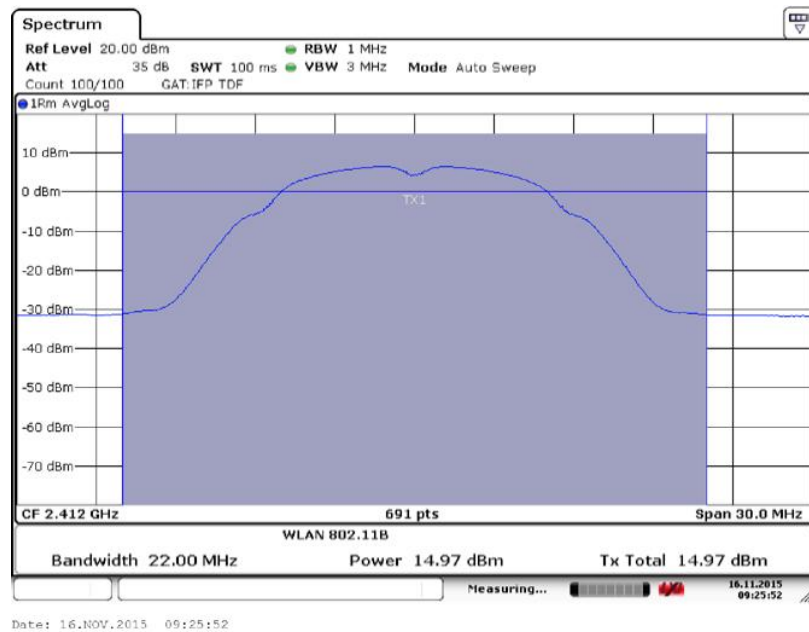


Fig.1 Maximum Average Output Power (802.11b, Ch 1,1Mbps)

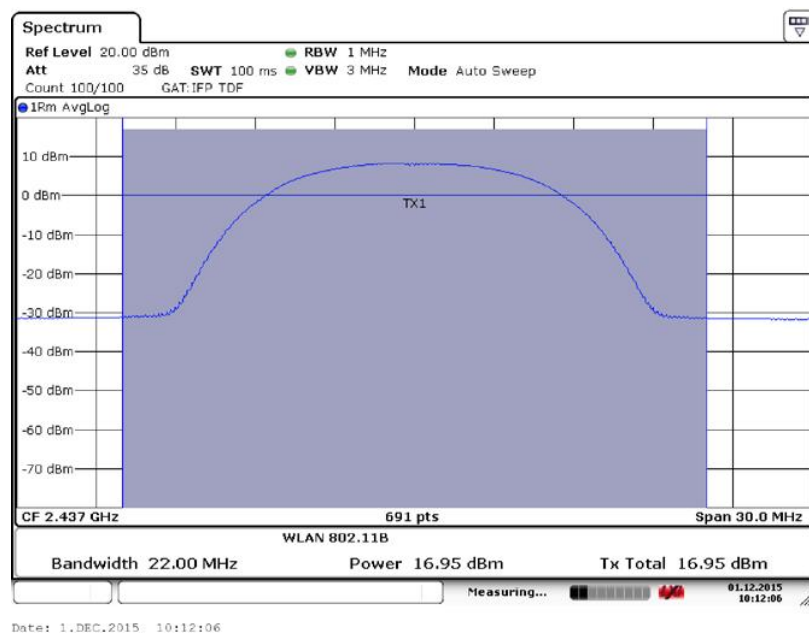


Fig.2 Maximum Average Output Power (802.11b, Ch 6,1Mbps)

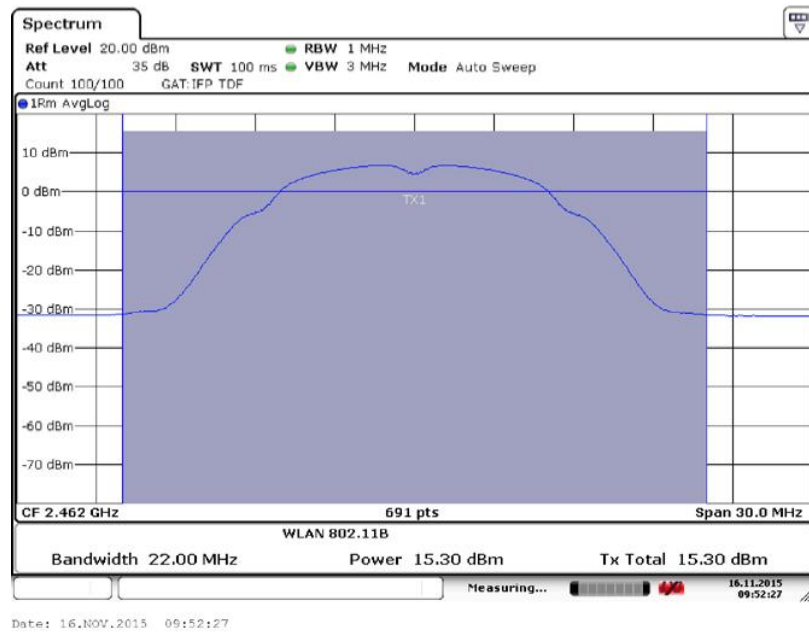


Fig.3 Maximum Average Output Power (802.11b, Ch 11,1Mbps)

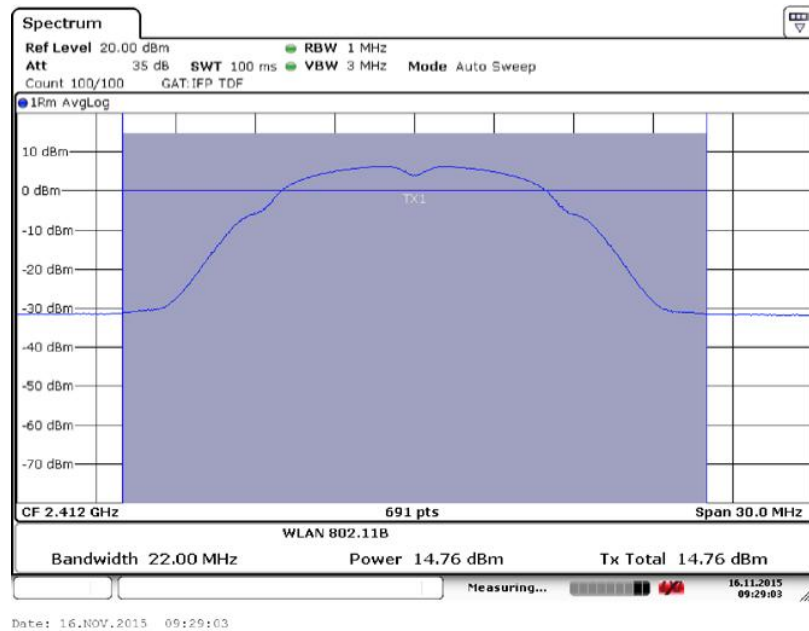


Fig.4 Maximum Average Output Power (802.11b, Ch 1,2Mbps)

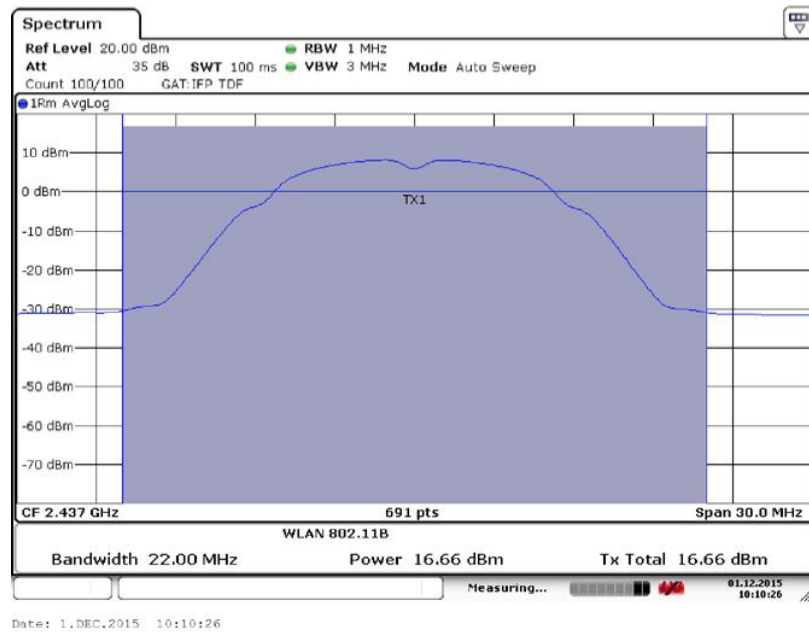


Fig.5 Maximum Average Output Power (802.11b, Ch 6,2Mbps)

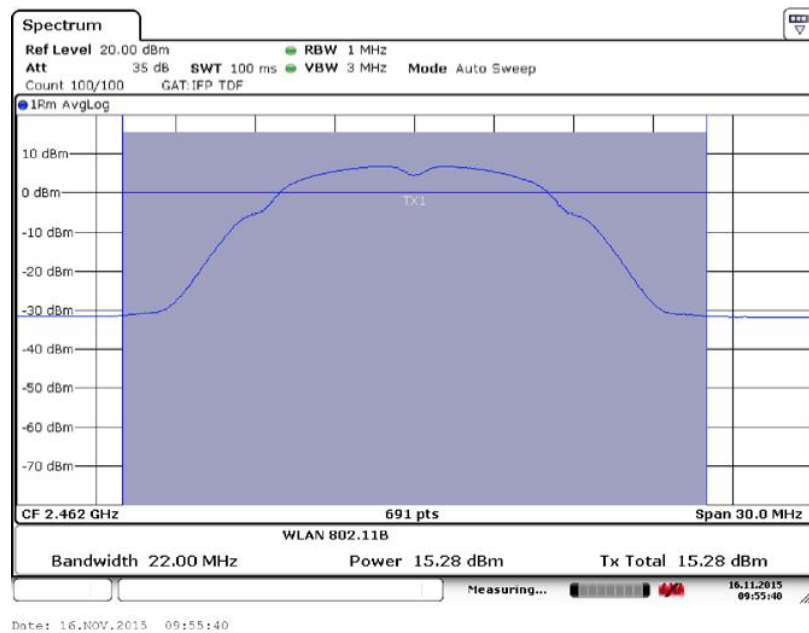


Fig.6 Maximum Average Output Power (802.11b, Ch 11,2Mbps)

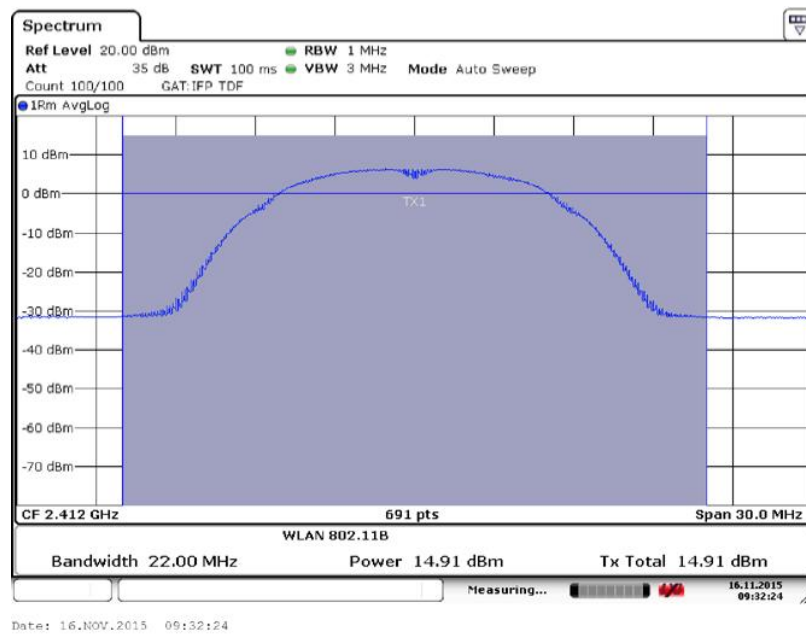


Fig.7 Maximum Average Output Power (802.11b, Ch 1,5.5Mbps)

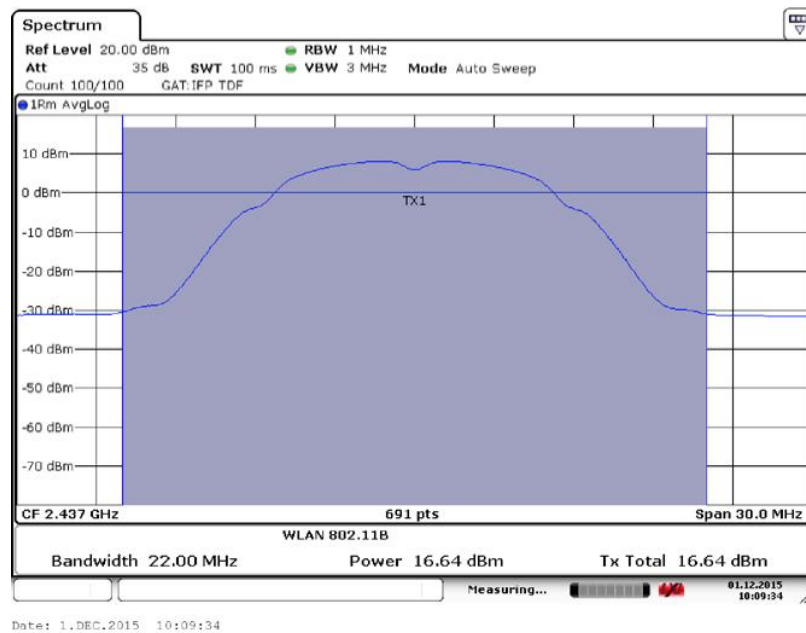


Fig.8 Maximum Average Output Power (802.11b, Ch 6,5.5Mbps)

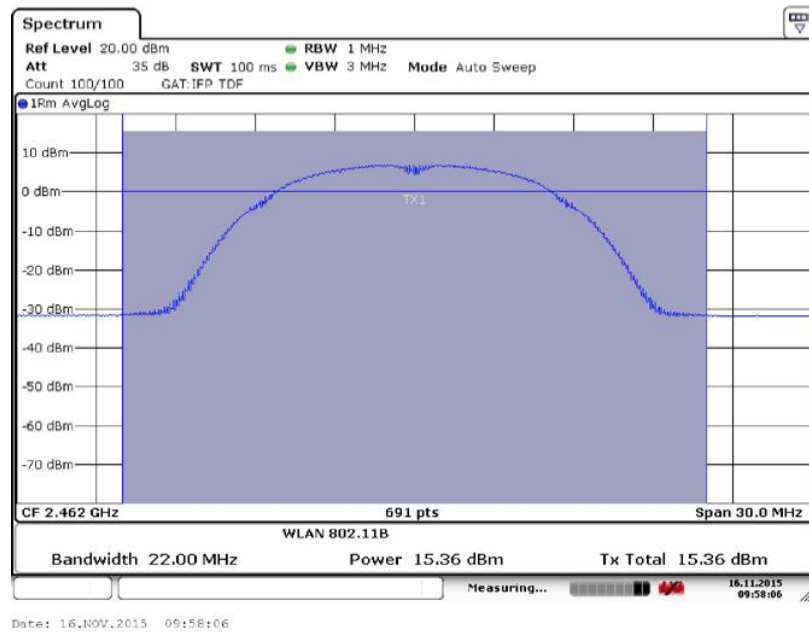


Fig.9 Maximum Average Output Power (802.11b, Ch 11,5Mbps)

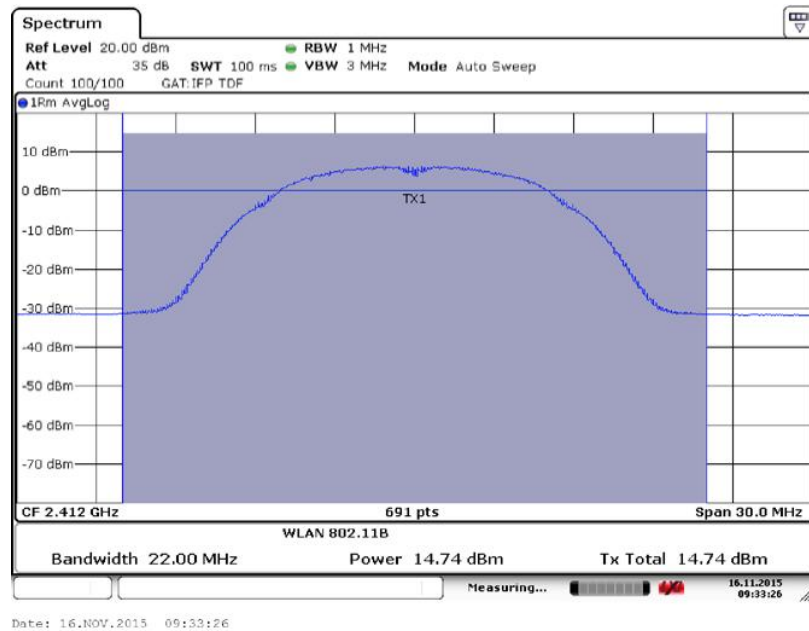


Fig.10 Maximum Average Output Power (802.11b, Ch 1,11Mbps)

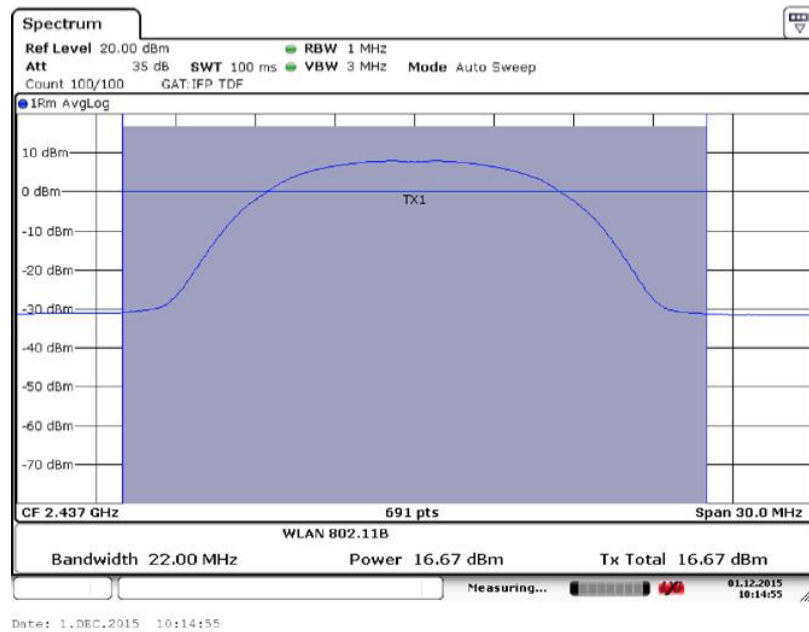


Fig.11 Maximum Average Output Power (802.11b, Ch 6,11Mbps)

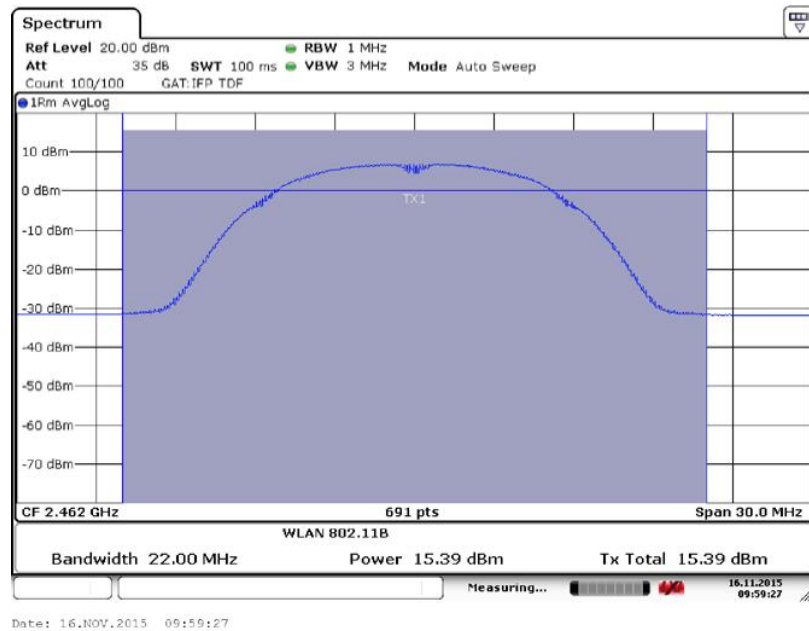


Fig.12 Maximum Average Output Power (802.11b, Ch 11,11Mbps)

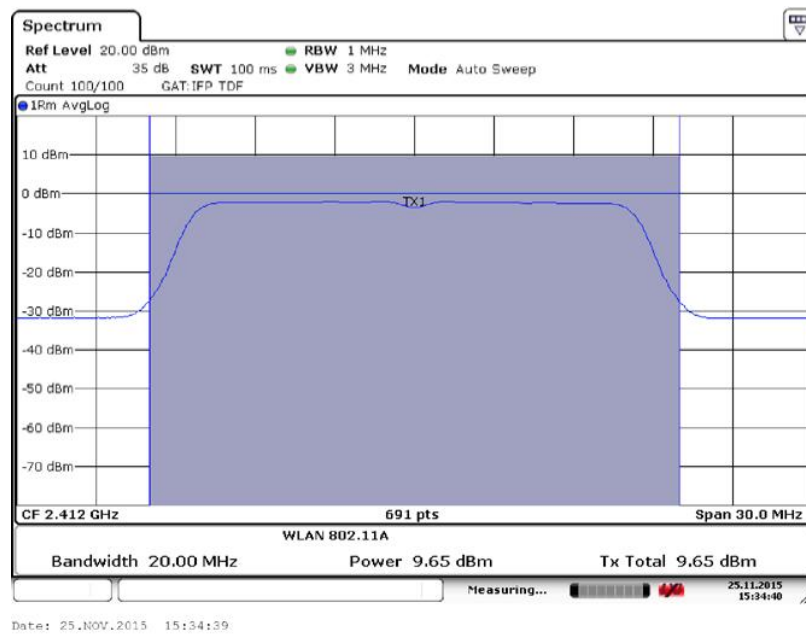


Fig.13 Maximum Average Output Power (802.11g, Ch 1,6Mbps)

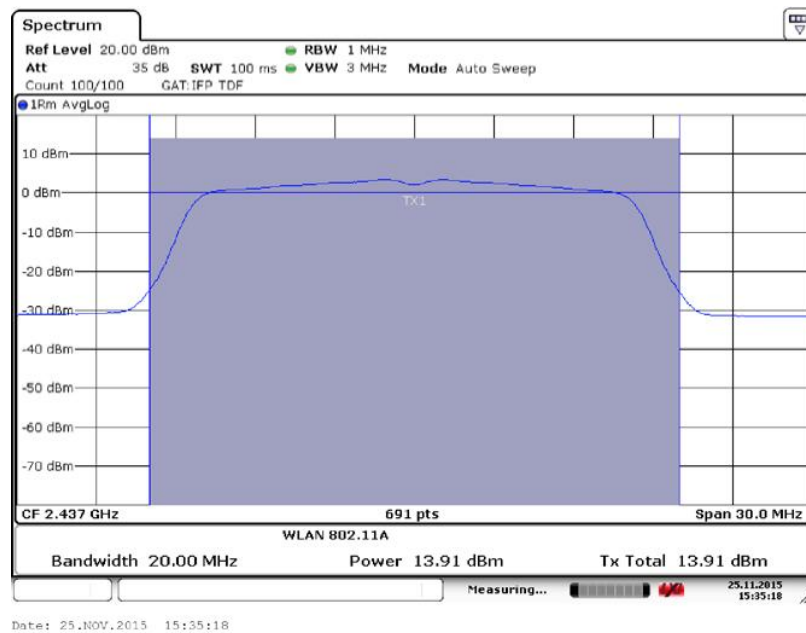


Fig.14 Maximum Average Output Power (802.11g, Ch 6,6Mbps)

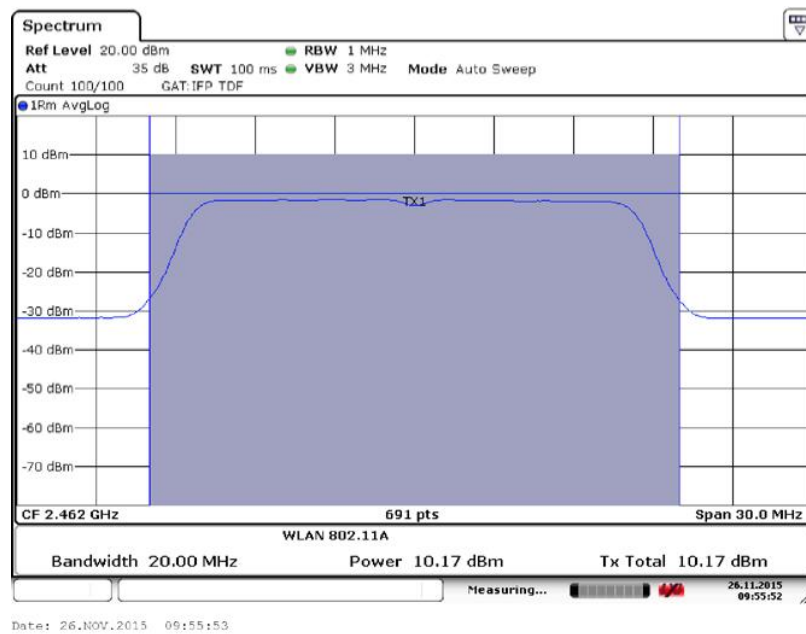


Fig.15 Maximum Average Output Power (802.11g, Ch 11,6Mbps)

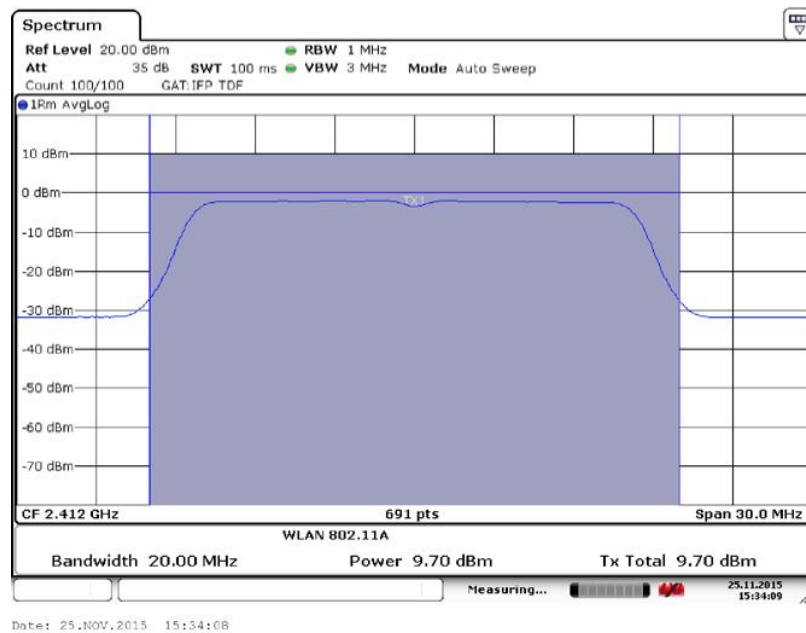


Fig.16 Maximum Average Output Power (802.11g, Ch 1,9Mbps)

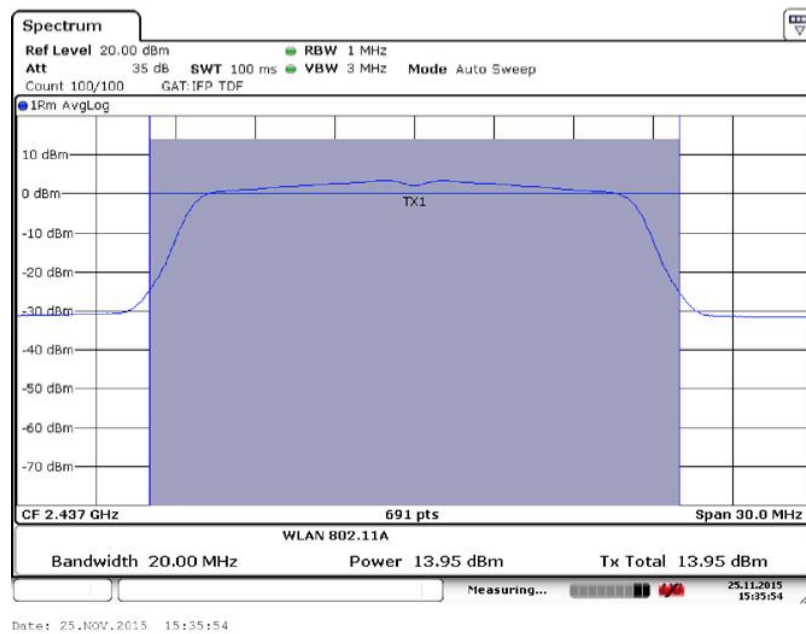


Fig.17 Maximum Average Output Power (802.11g, Ch 6,9Mbps)

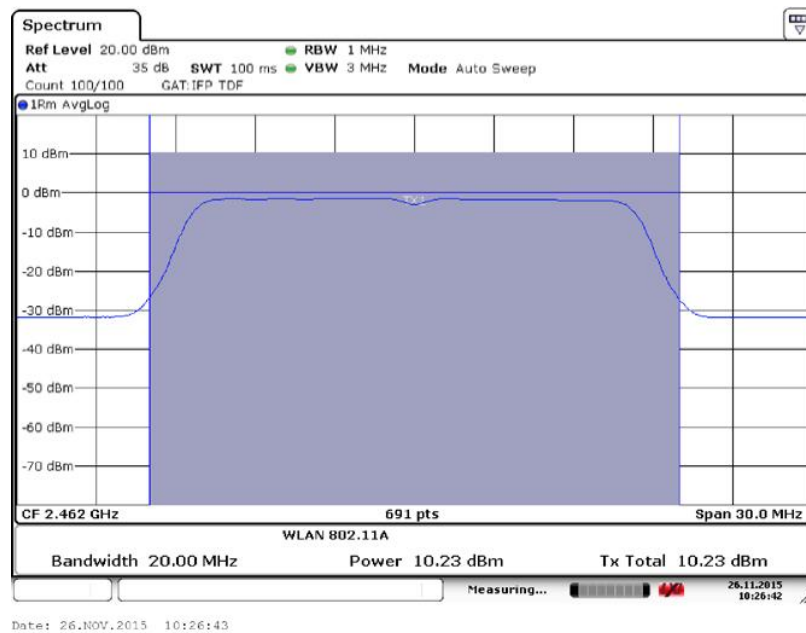


Fig.18 Maximum Average Output Power (802.11g, Ch 11,9Mbps)

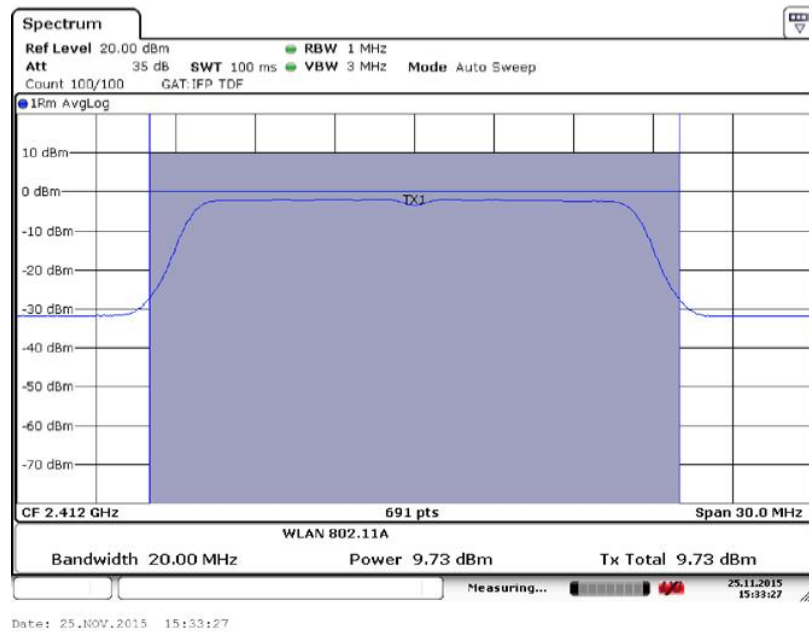


Fig.19 Maximum Average Output Power (802.11g, Ch 1,12Mbps)

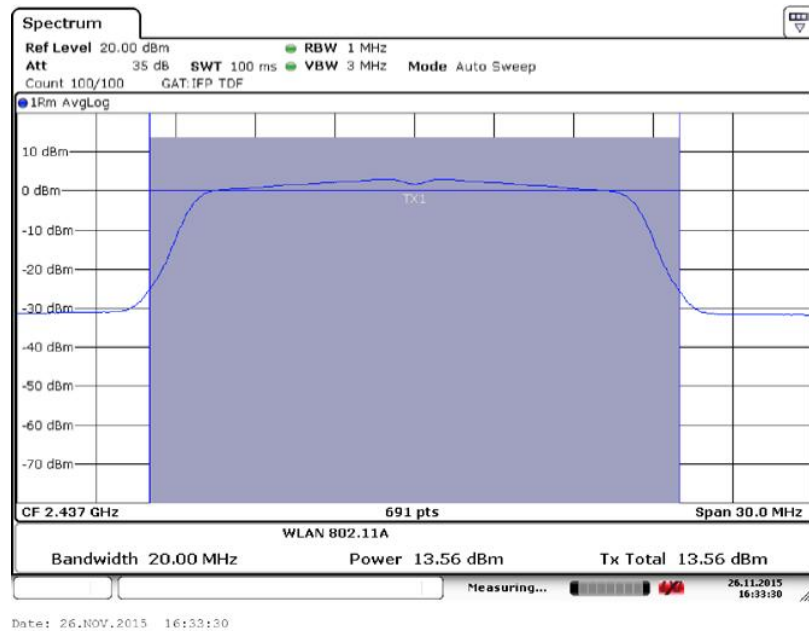


Fig.20 Maximum Average Output Power (802.11g, Ch 6,12Mbps)

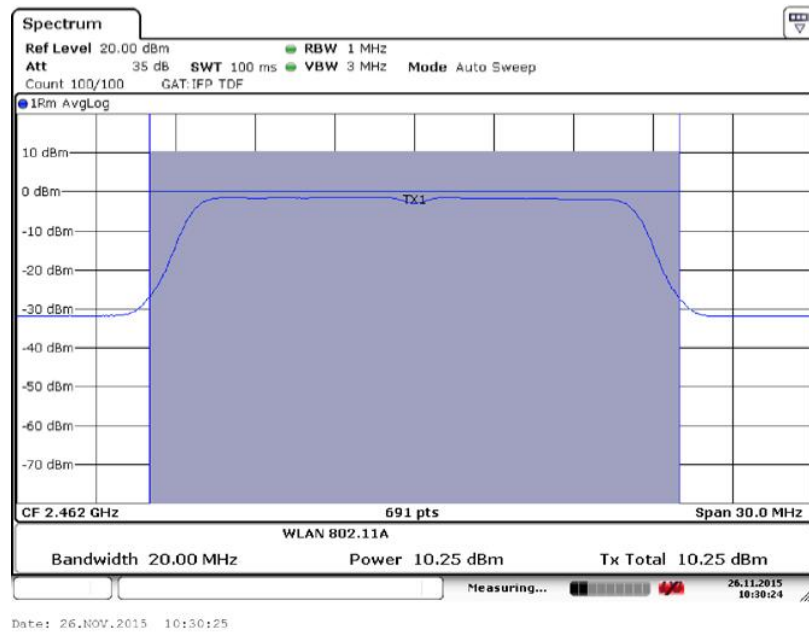


Fig.21 Maximum Average Output Power (802.11g, Ch 11,12Mbps)

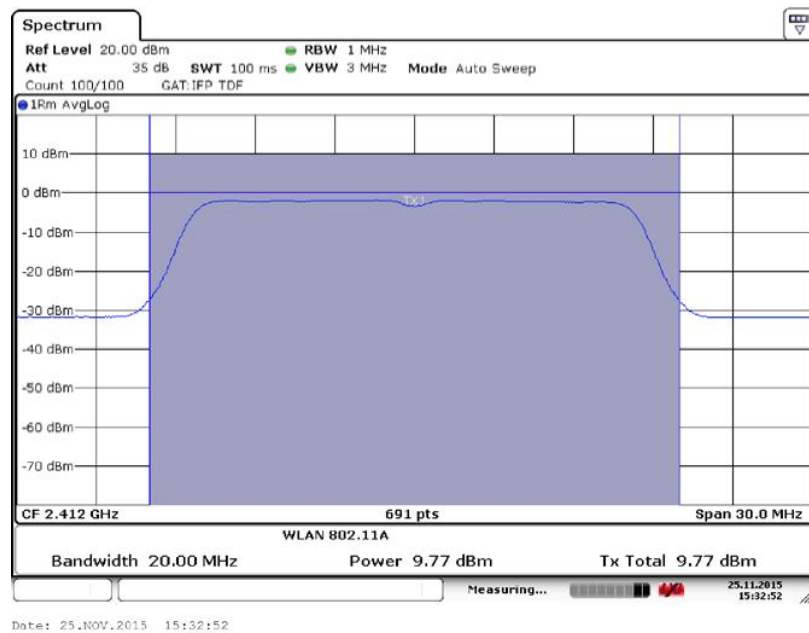


Fig.22 Maximum Average Output Power (802.11g, Ch 1,18Mbps)

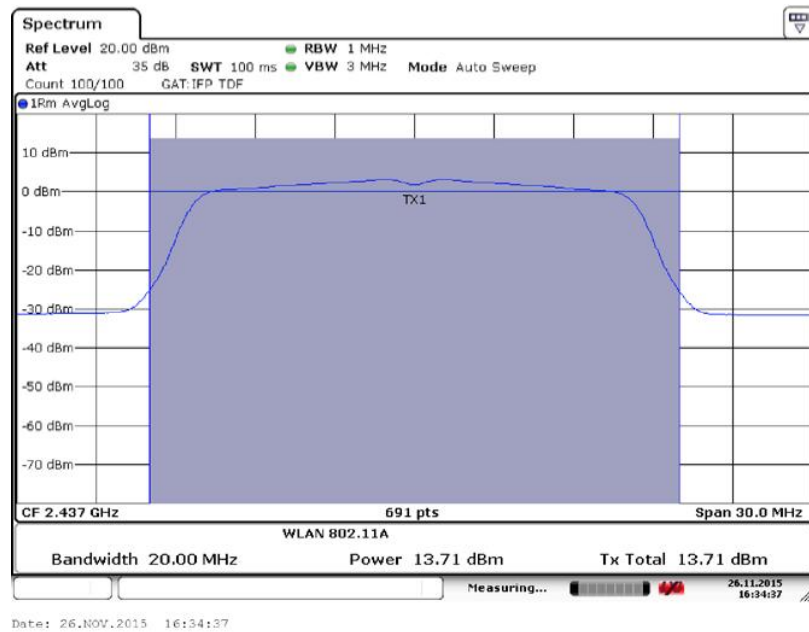


Fig.23 Maximum Average Output Power (802.11g, Ch 6,18Mbps)

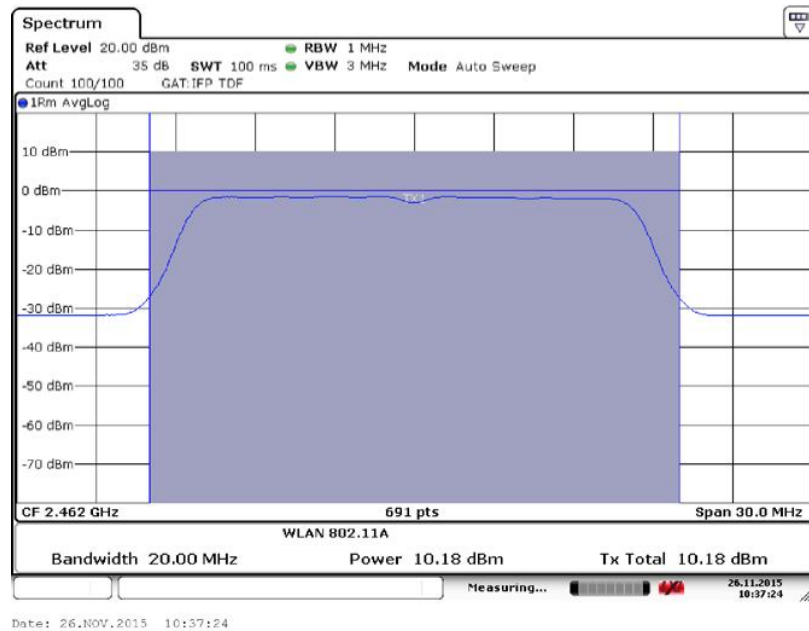


Fig.24 Maximum Average Output Power (802.11g, Ch 11,18Mbps)

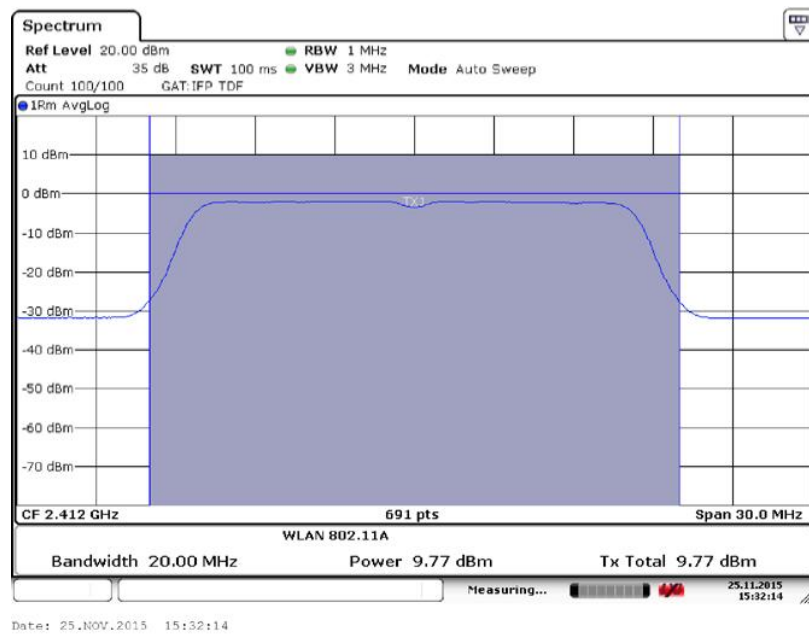


Fig.25 Maximum Average Output Power (802.11g, Ch 1,24Mbps)

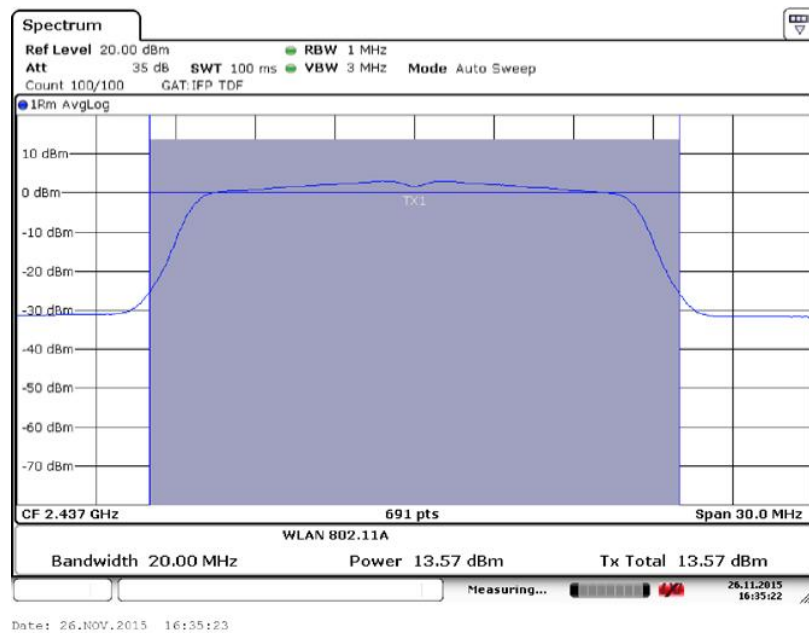


Fig.26 Maximum Average Output Power (802.11g, Ch 6,24Mbps)

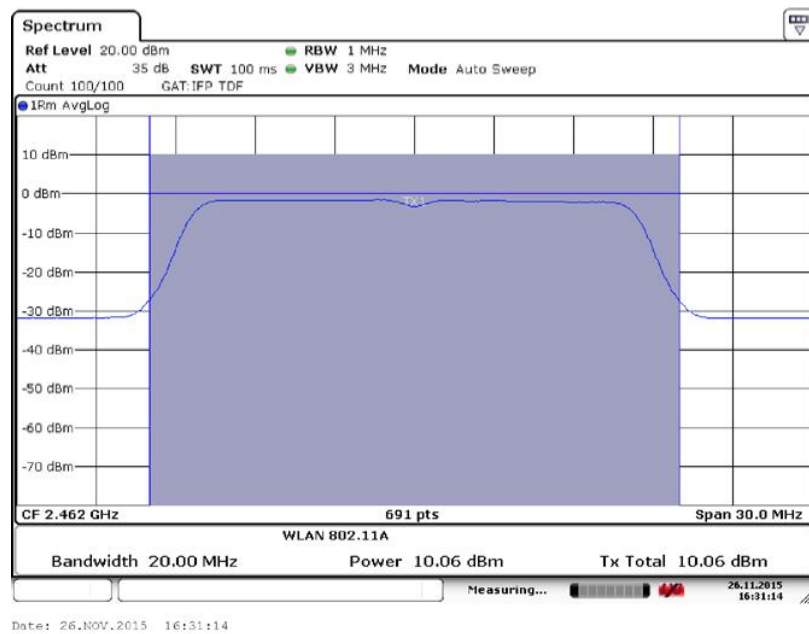


Fig.27 Maximum Average Output Power (802.11g, Ch 11,24Mbps)

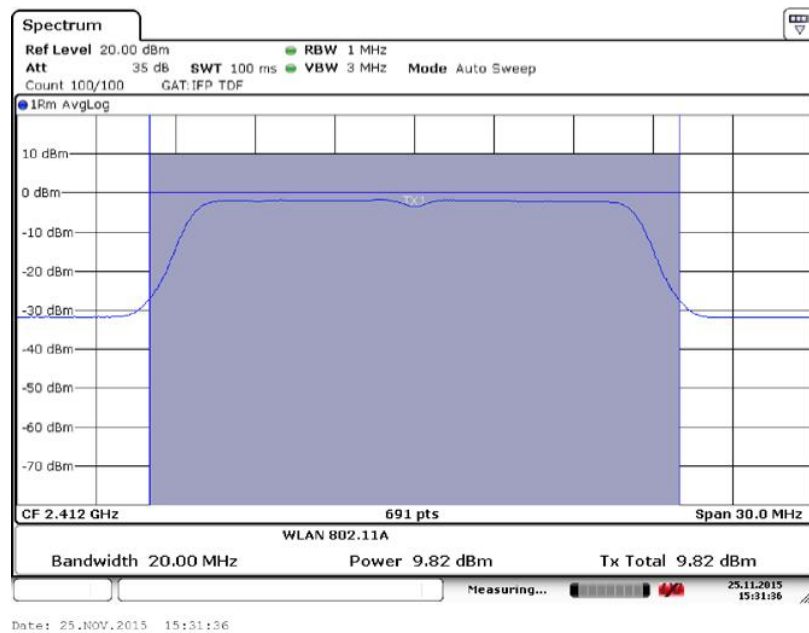


Fig.28 Maximum Average Output Power (802.11g, Ch 1,36Mbps)

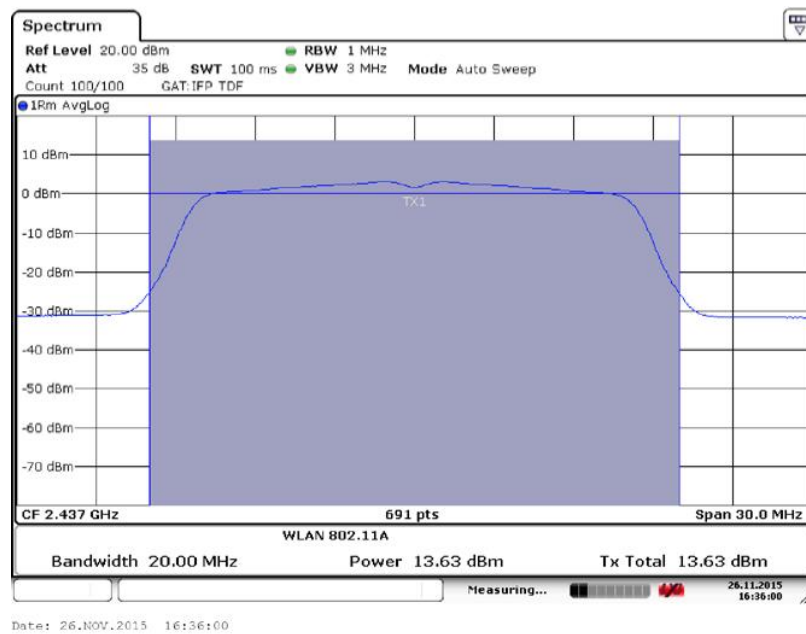


Fig.29 Maximum Average Output Power (802.11g, Ch 6,36Mbps)

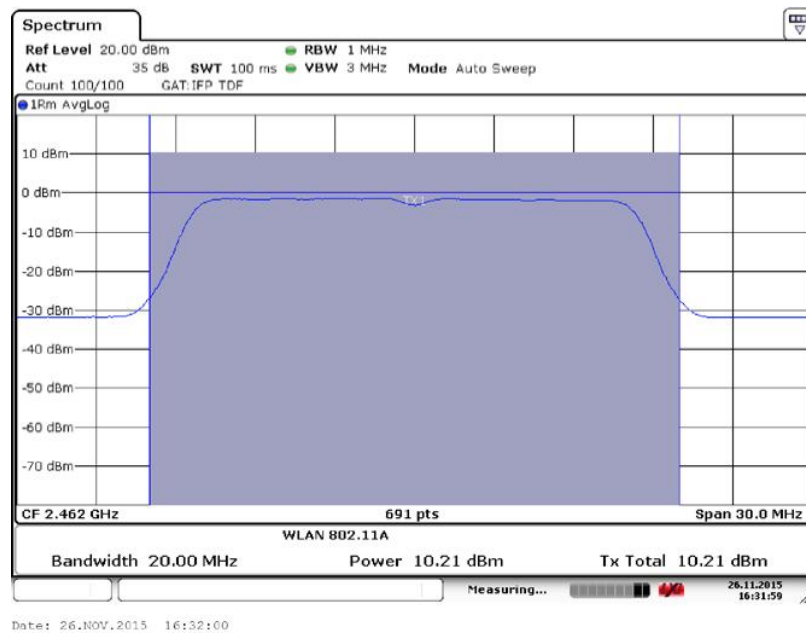


Fig.30 Maximum Average Output Power (802.11g, Ch 11,36Mbps)

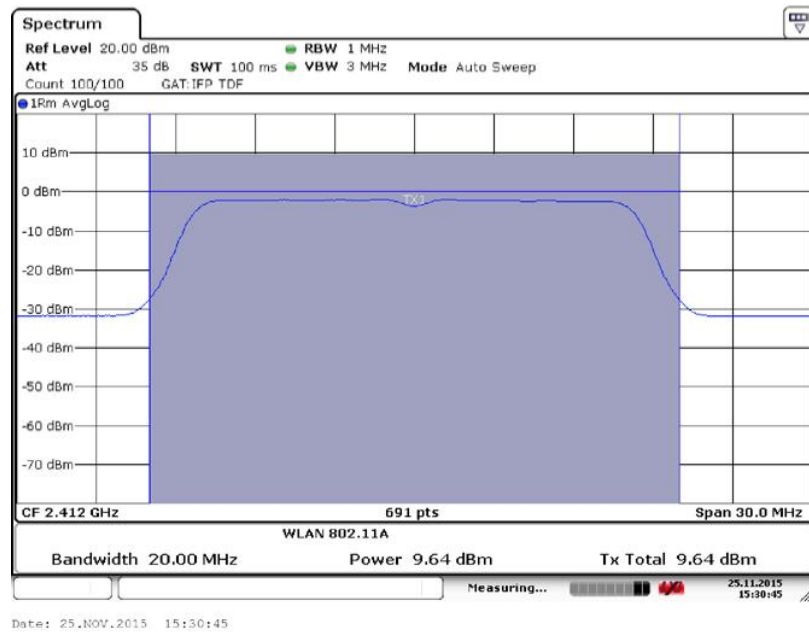


Fig.31 Maximum Average Output Power (802.11g, Ch 1,48Mbps)

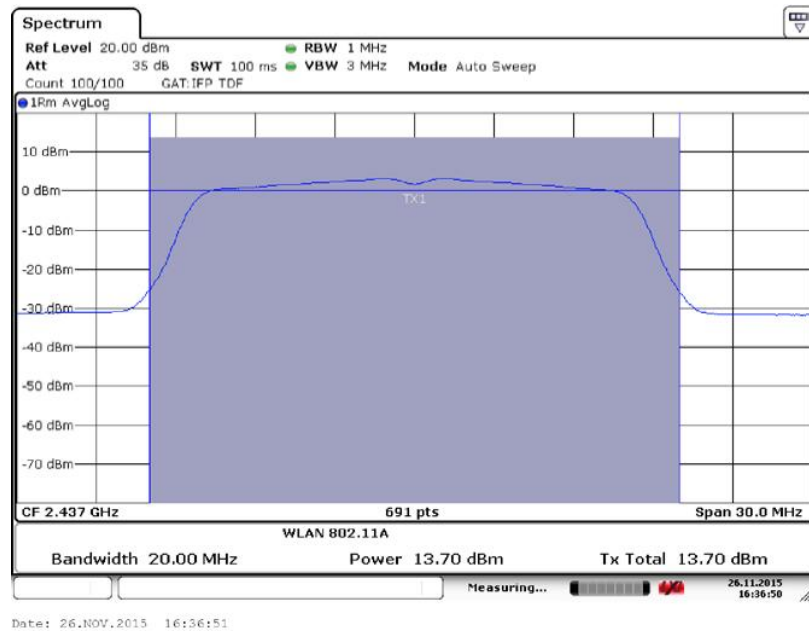


Fig.32 Maximum Average Output Power (802.11g, Ch 6,48Mbps)

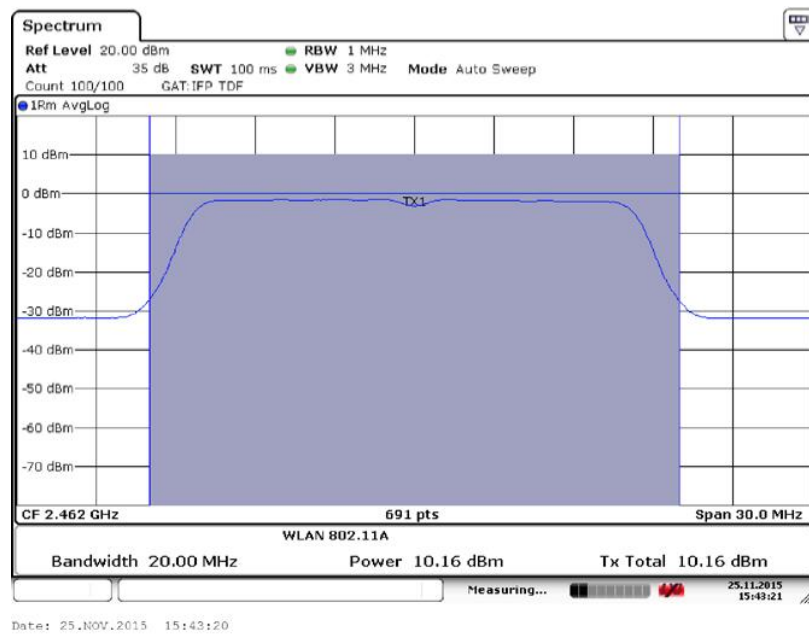


Fig.33 Maximum Average Output Power (802.11g, Ch 11,48Mbps)

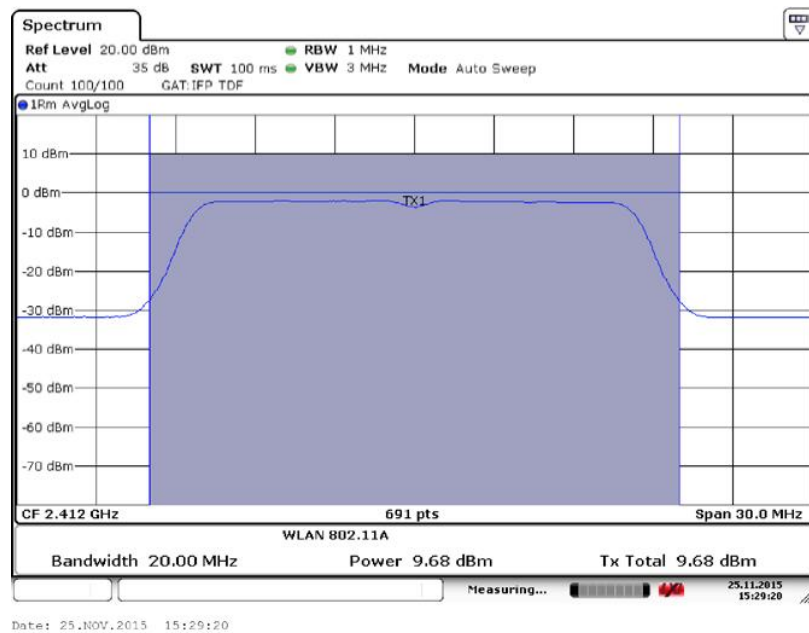


Fig.34 Maximum Average Output Power (802.11g, Ch 1,54Mbps)

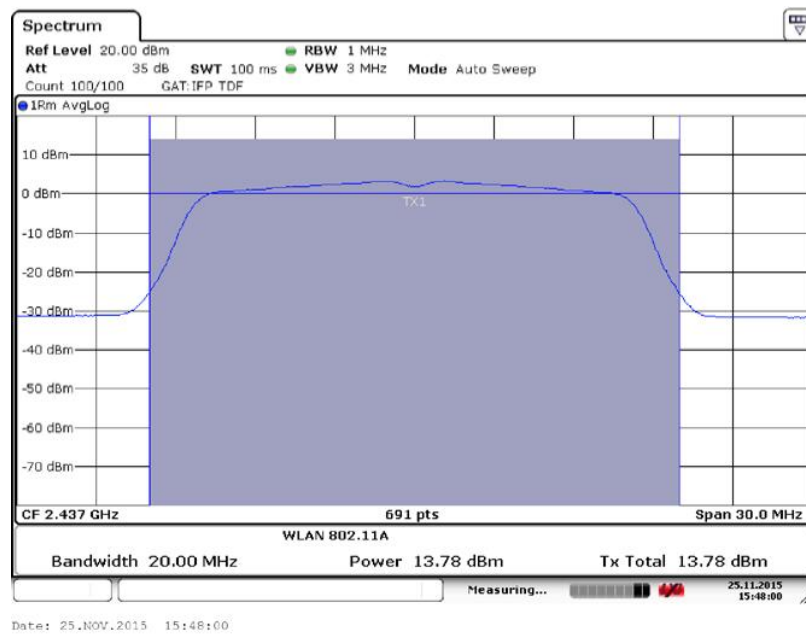


Fig.35 Maximum Average Output Power (802.11g, Ch 6,54Mbps)

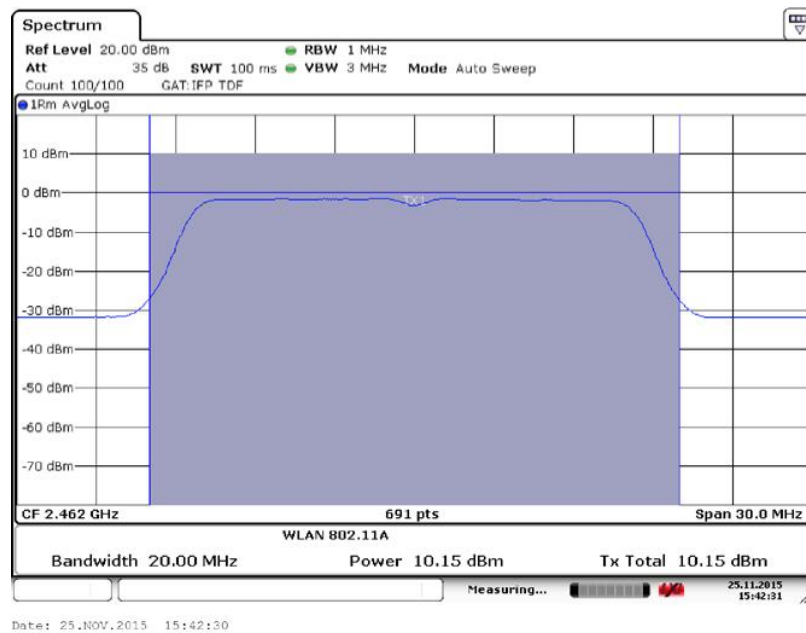


Fig.36 Maximum Average Output Power (802.11g, Ch 11,54Mbps)

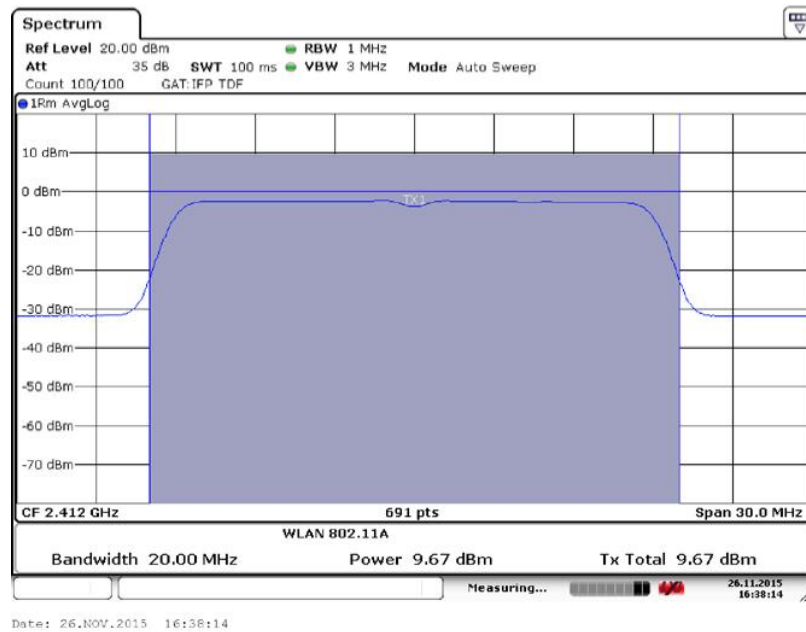


Fig.37 Maximum Average Output Power (802.11n-20MHz, Ch 1,MCS0)

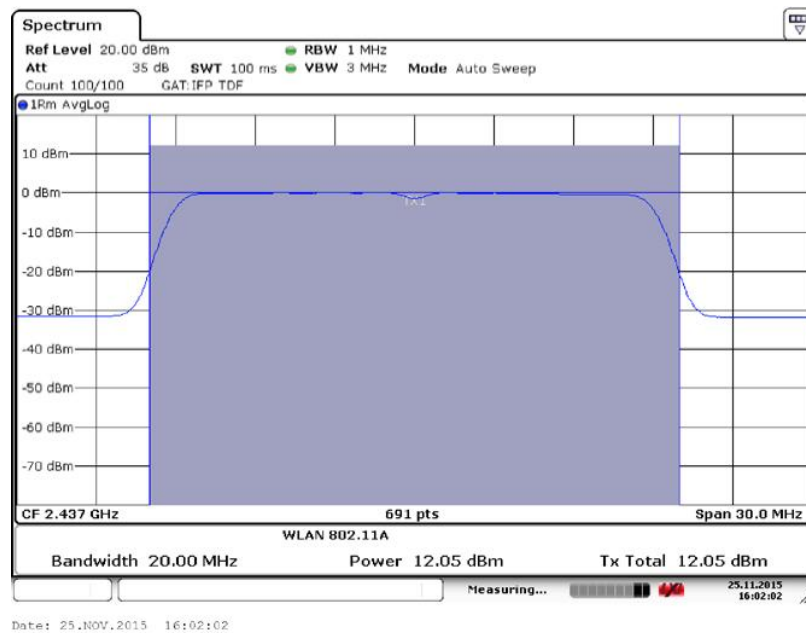


Fig.38 Maximum Average Output Power (802.11n-20MHz, Ch 6,MCS0)

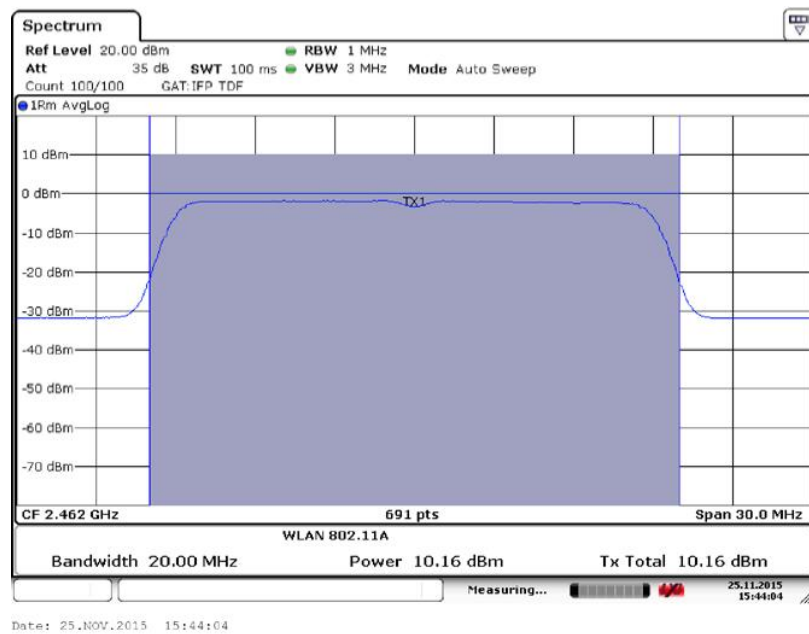


Fig.39 Maximum Average Output Power (802.11n-20MHz, Ch 11,MCS0)

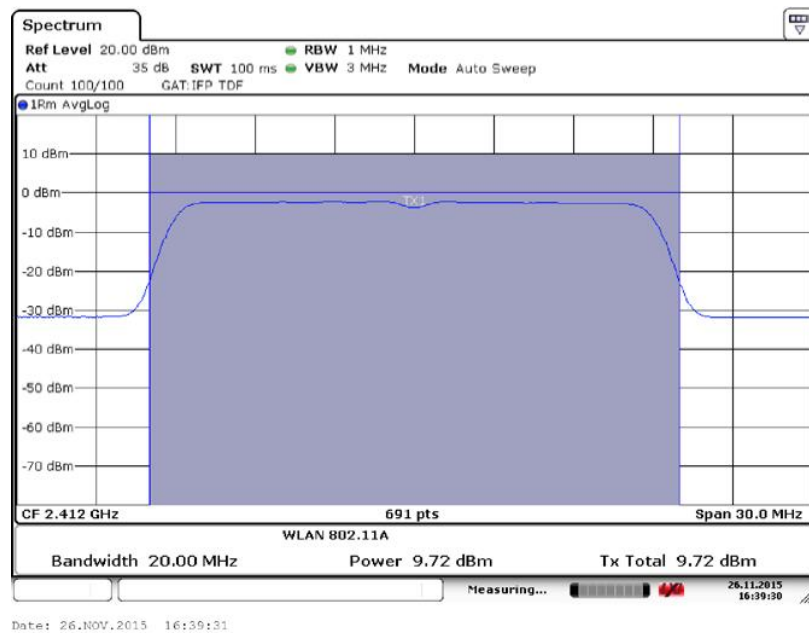


Fig.40 Maximum Average Output Power (802.11n-20MHz, Ch 1,MCS1)

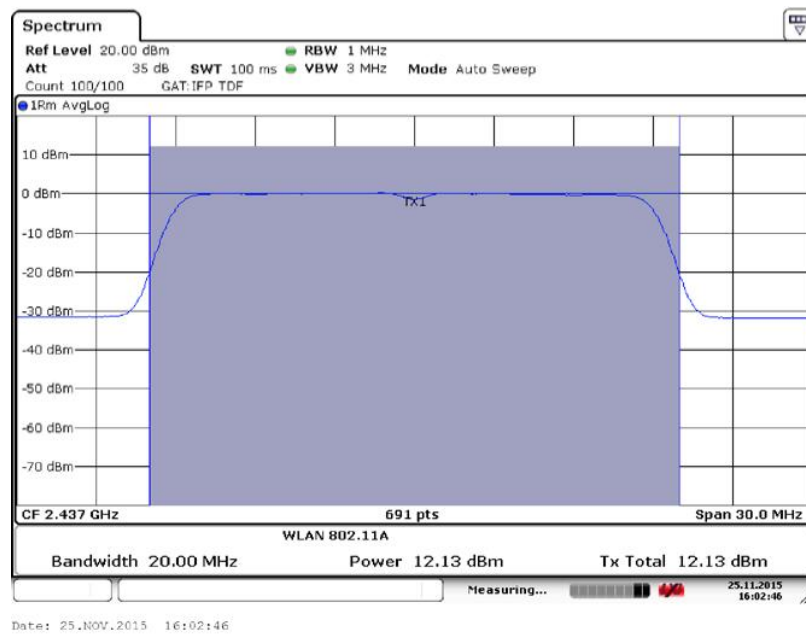


Fig.41 Maximum Average Output Power (802.11n-20MHz, Ch 6,MCS1)

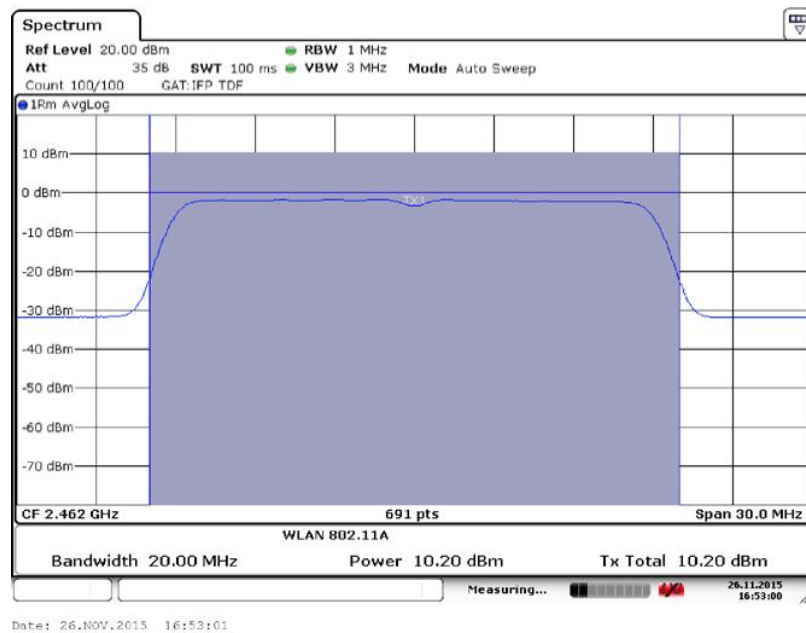


Fig.42 Maximum Average Output Power (802.11n-20MHz, Ch 11,MCS1)

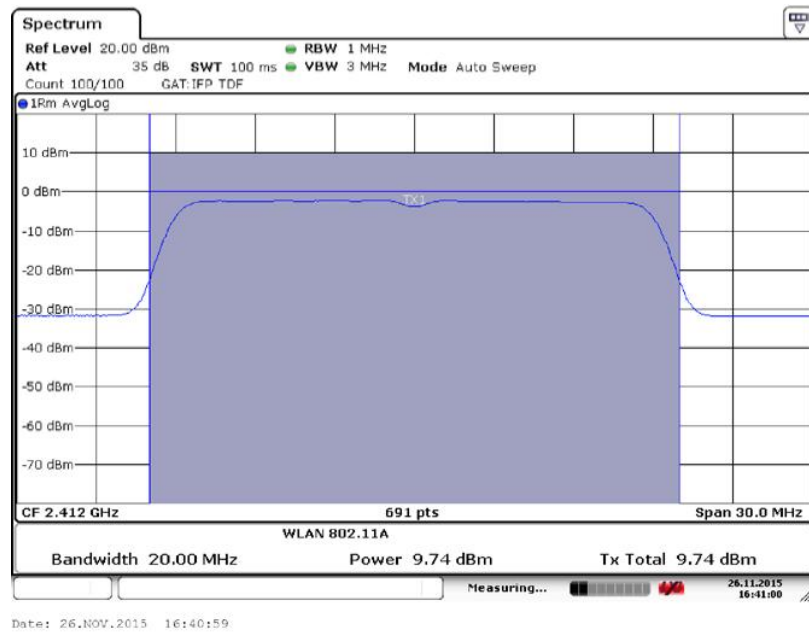


Fig.43 Maximum Average Output Power (802.11n-20MHz, Ch 1,MCS2)

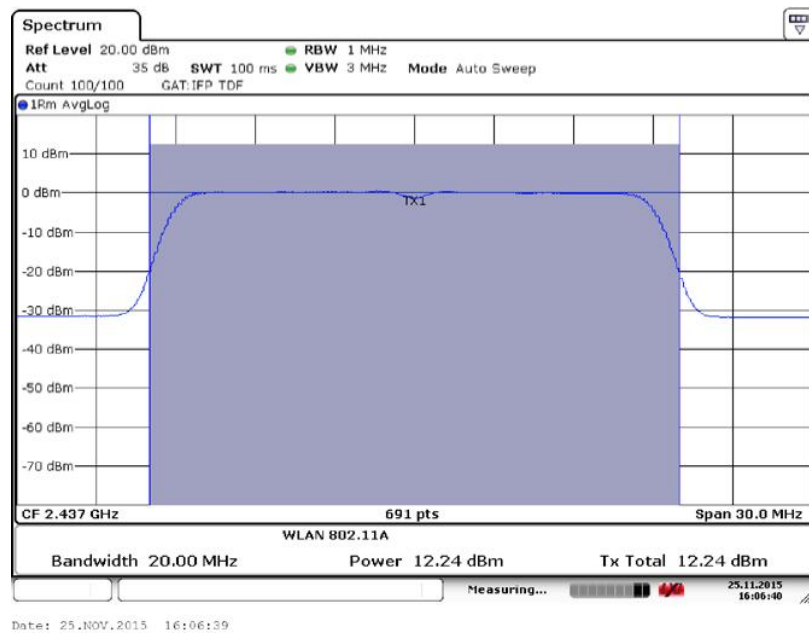


Fig.44 Maximum Average Output Power (802.11n-20MHz, Ch 6,MCS2))

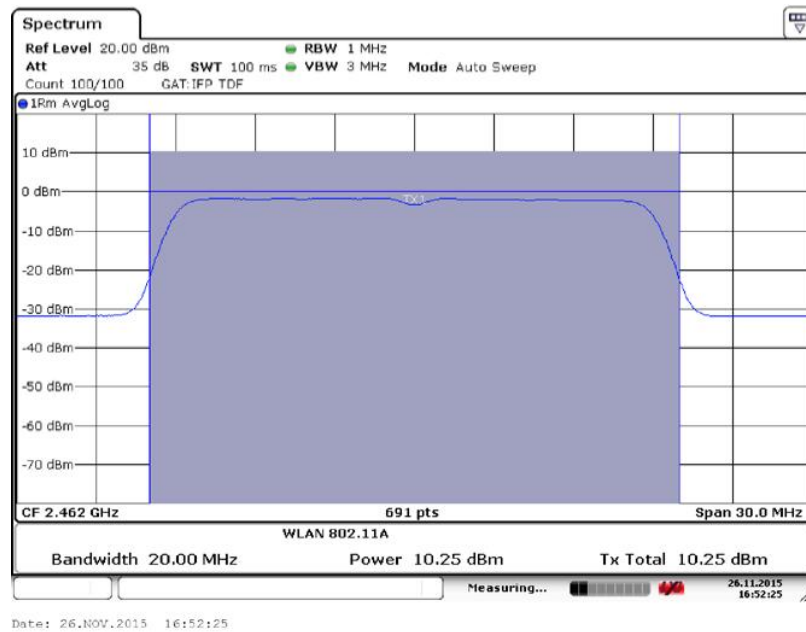


Fig.45 Maximum Average Output Power (802.11n-20MHz, Ch 11,MCS2)

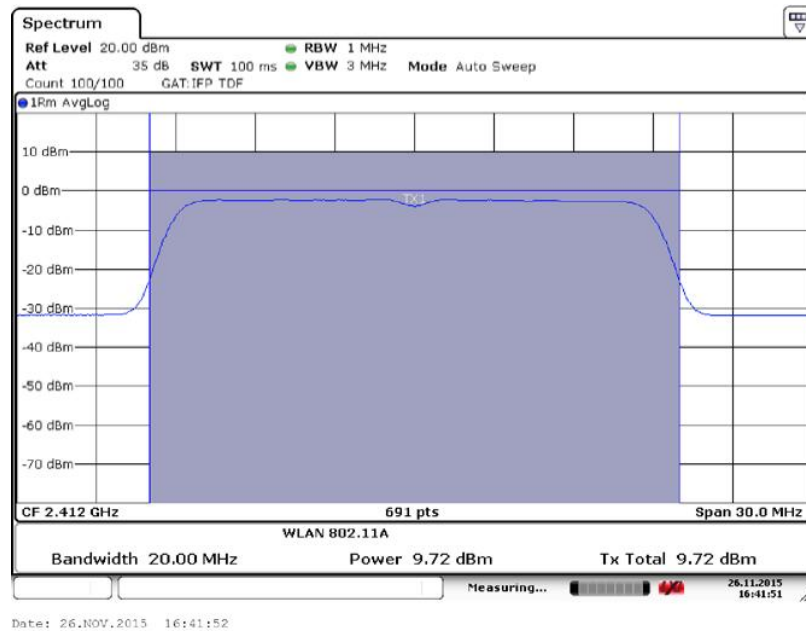


Fig.46 Maximum Average Output Power (802.11n-20MHz, Ch 1,MCS3)

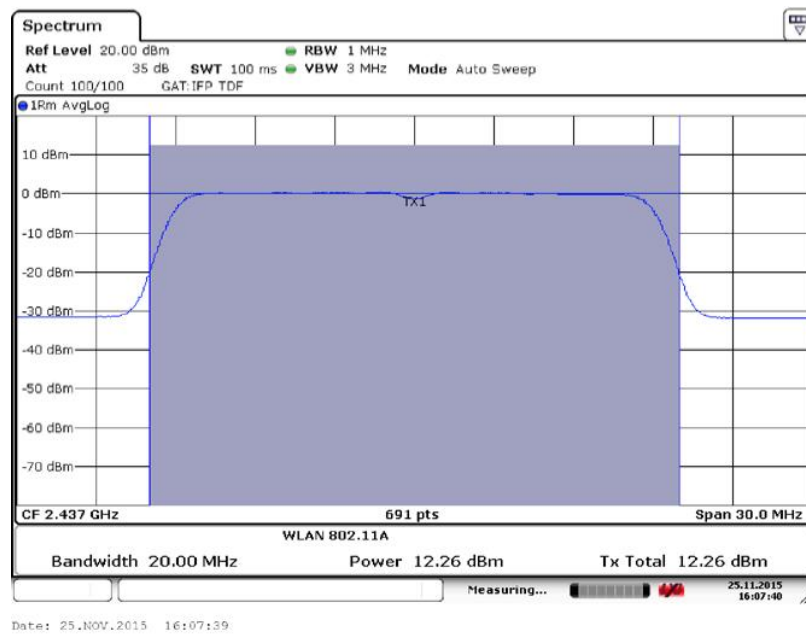


Fig.47 Maximum Average Output Power (802.11n-20MHz, Ch 6,MCS3)

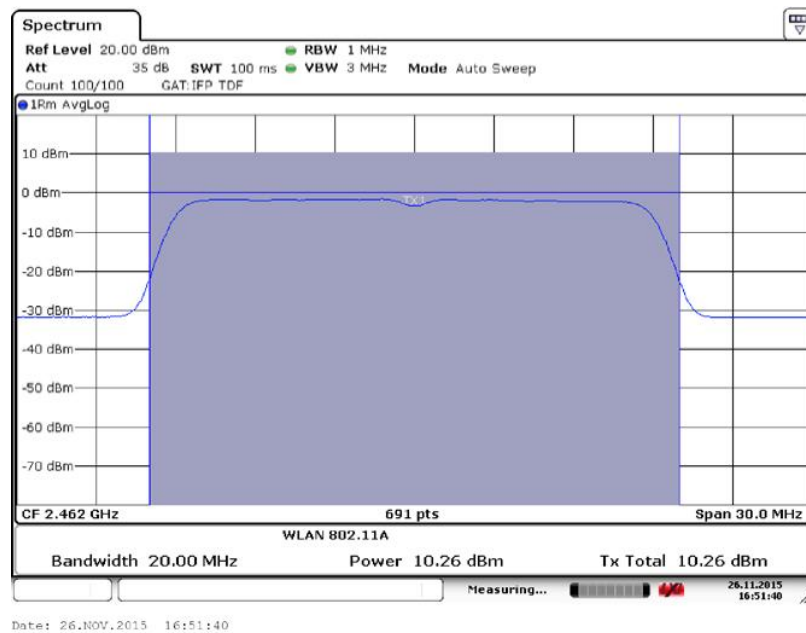


Fig.48 Maximum Average Output Power (802.11n-20MHz, Ch 11,MCS3)

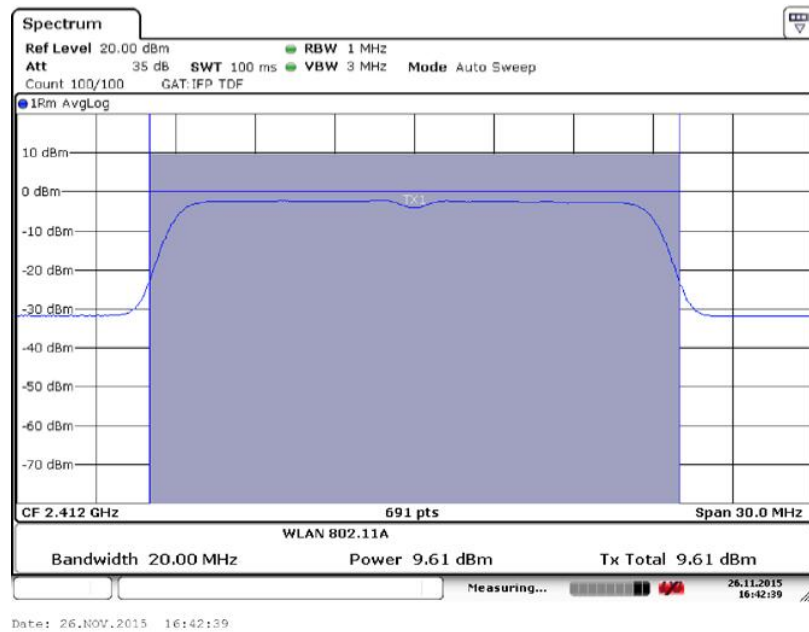


Fig.49 Maximum Average Output Power (802.11n-20MHz, Ch 1,MCS4)

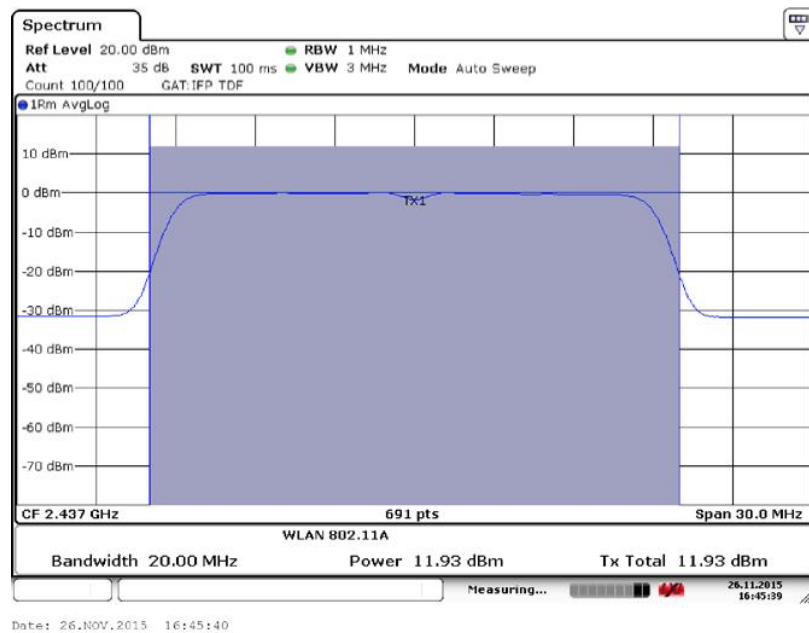


Fig.50 Maximum Average Output Power (802.11n-20MHz, Ch 6,MCS4)

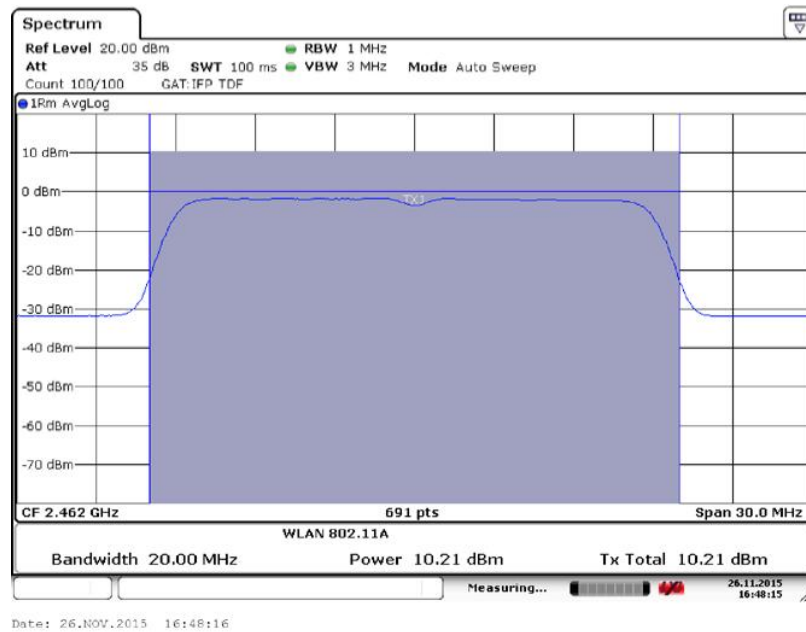


Fig.51 Maximum Average Output Power (802.11n-20MHz, Ch 11,MCS4)

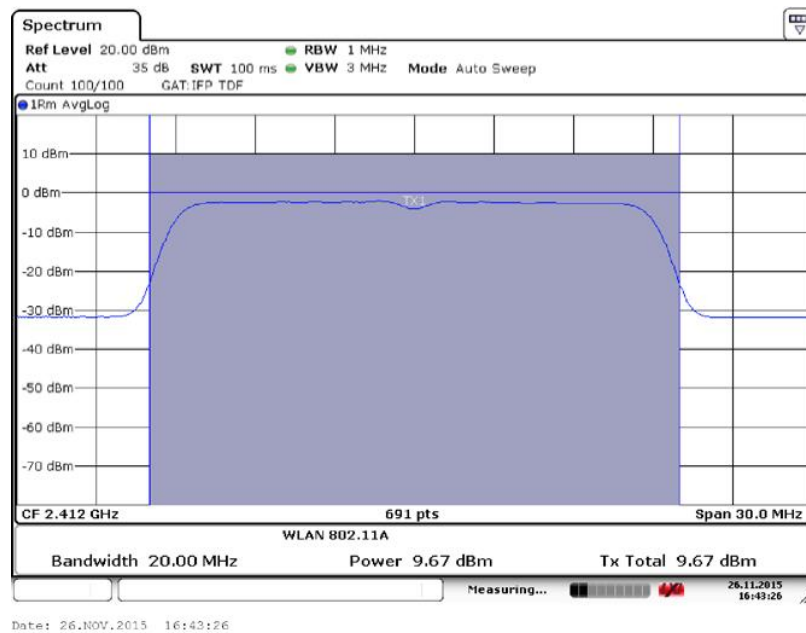


Fig.52 Maximum Average Output Power (802.11n-20MHz, Ch 1,MCS5)

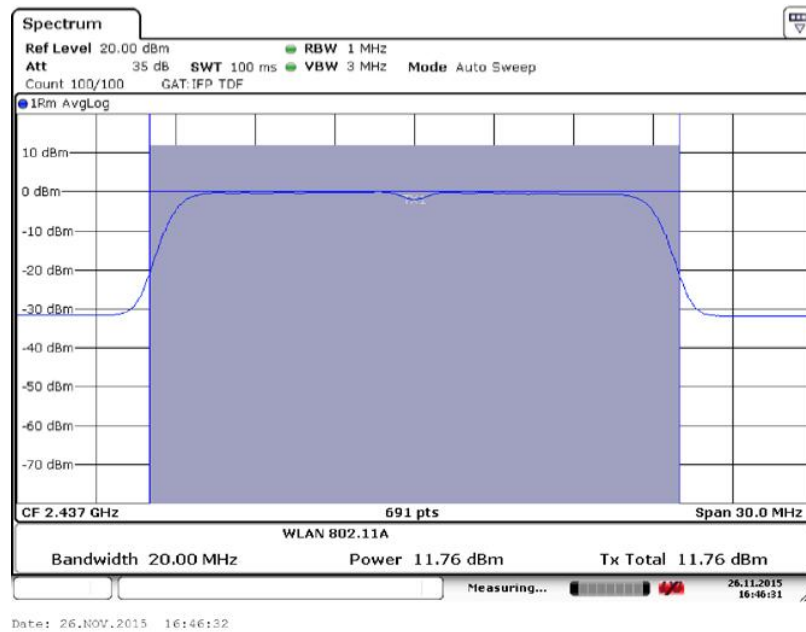


Fig.53 Maximum Average Output Power (802.11n-20MHz, Ch 6,MCS5)

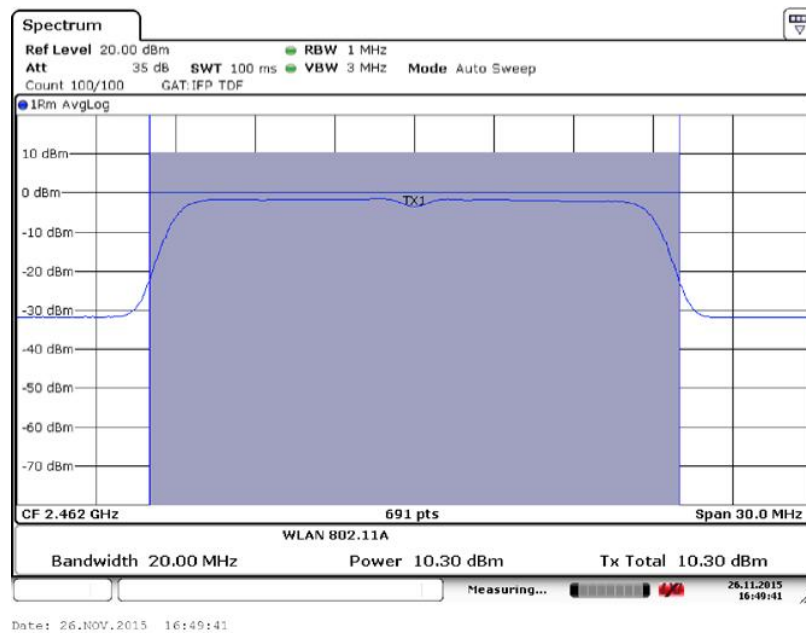


Fig.54 Maximum Average Output Power (802.11n-20MHz, Ch 11,MCS5)

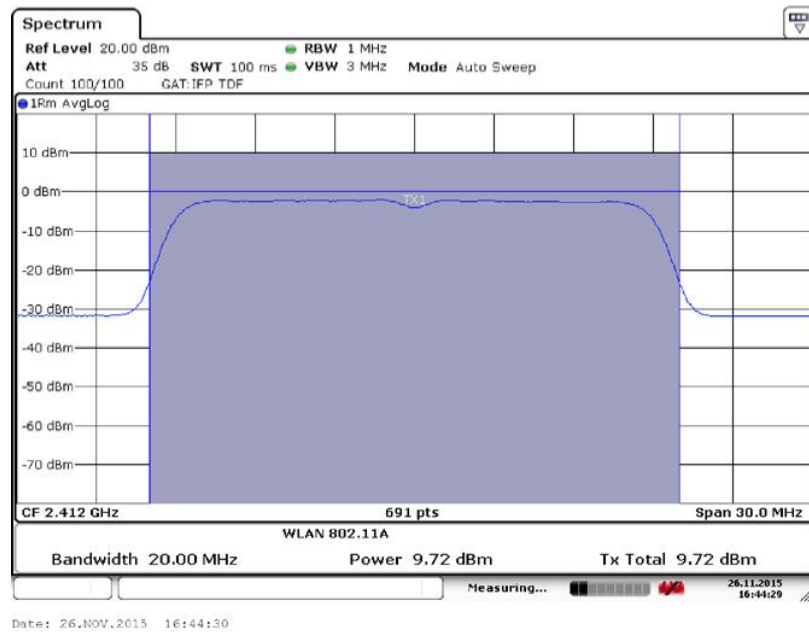


Fig.55 Maximum Average Output Power (802.11n-20MHz, Ch 1,MCS6)

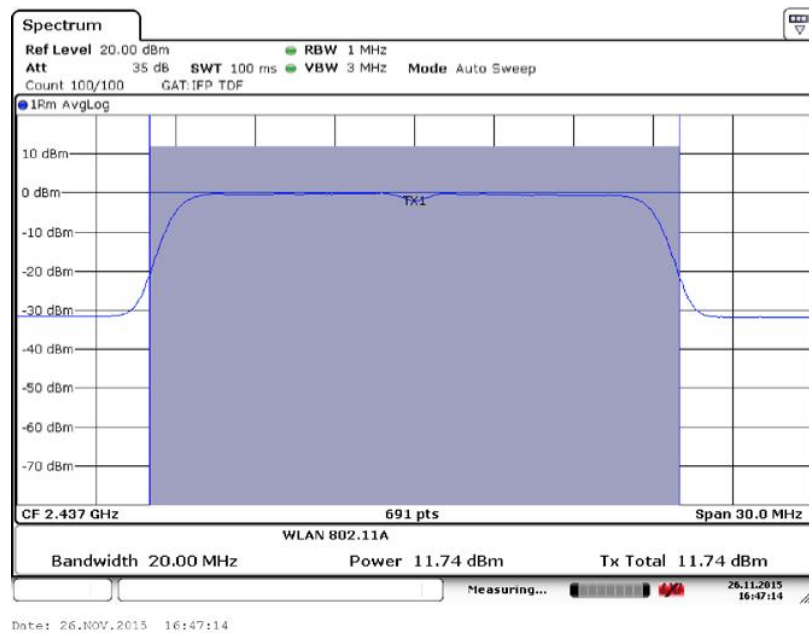


Fig.56 Maximum Average Output Power (802.11n-20MHz, Ch 6,MCS6)

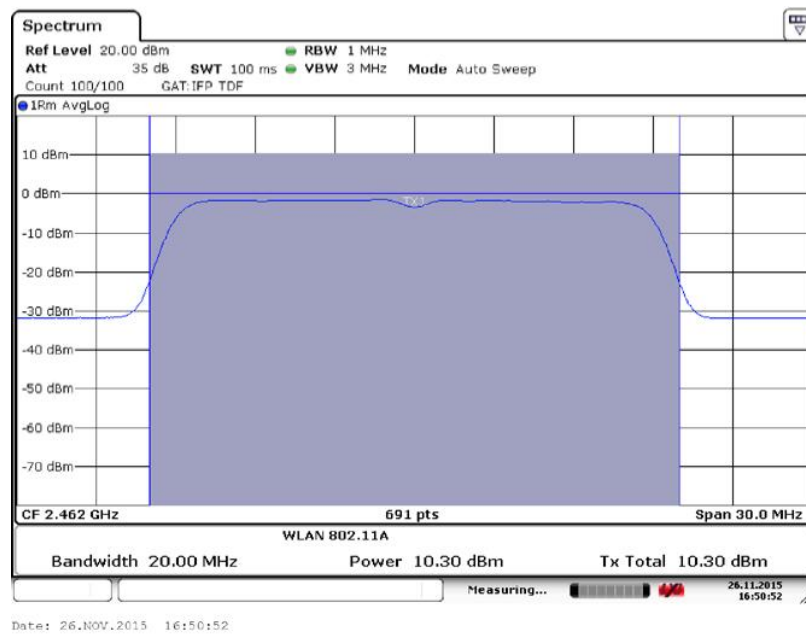


Fig.57 Maximum Average Output Power (802.11n-20MHz, Ch 11,MCS6)

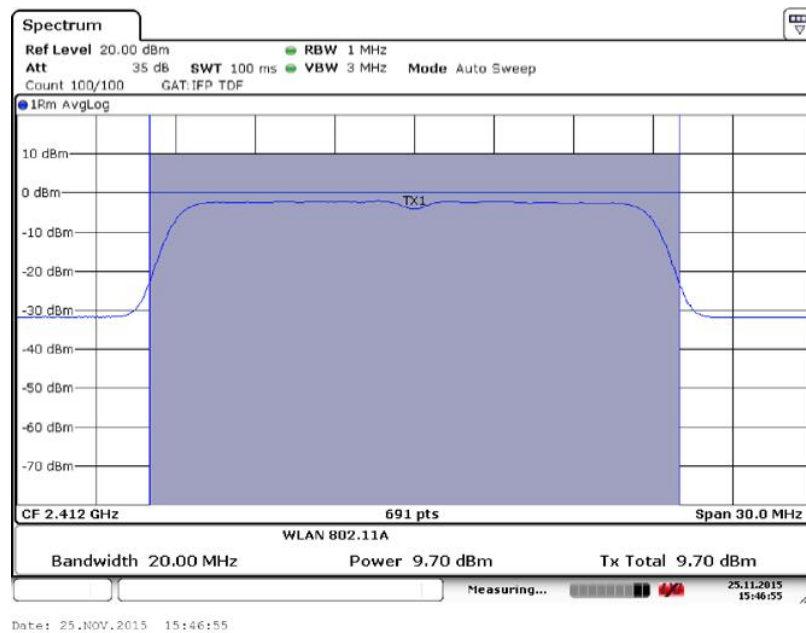


Fig.58 Maximum Average Output Power (802.11n-20MHz, Ch 1,MCS7)

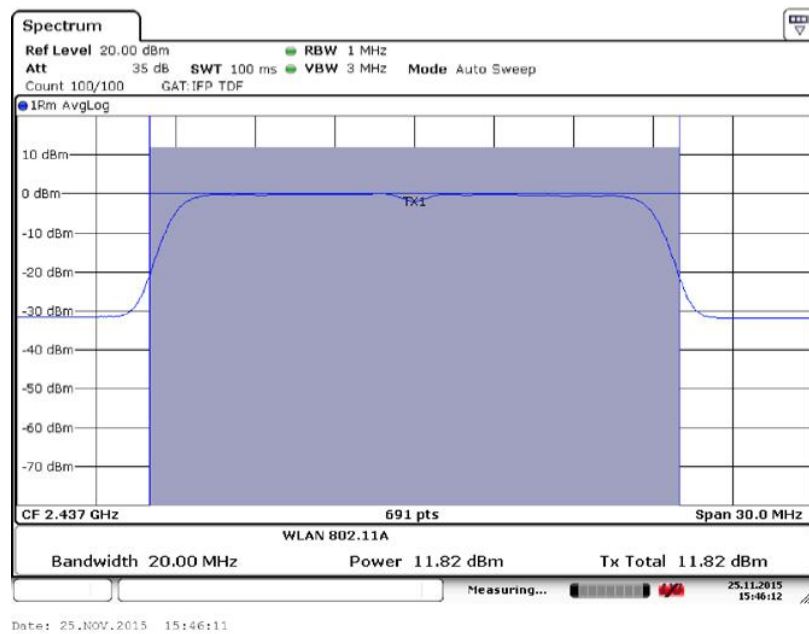


Fig.59 Maximum Average Output Power (802.11n-20MHz, Ch 6,MCS7)

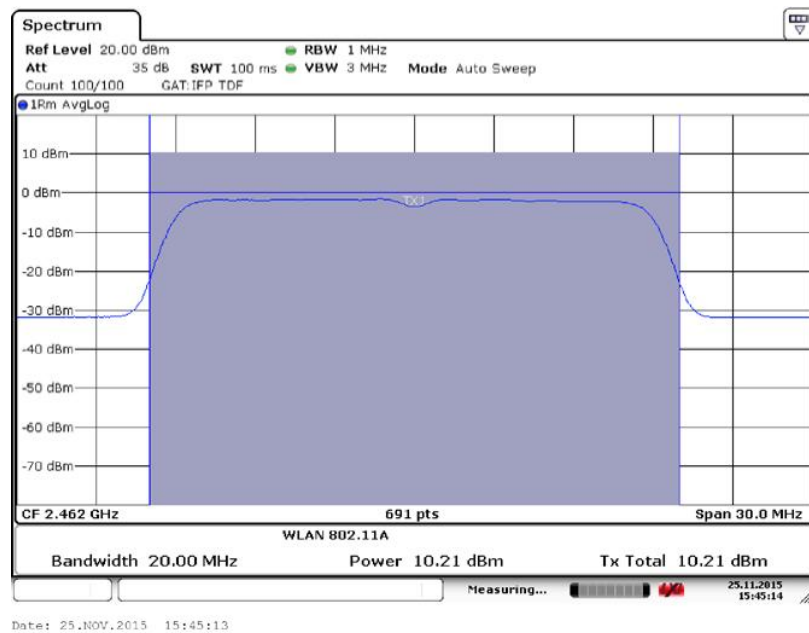


Fig.60 Maximum Average Output Power (802.11n-20MHz, Ch 11,MCS7)

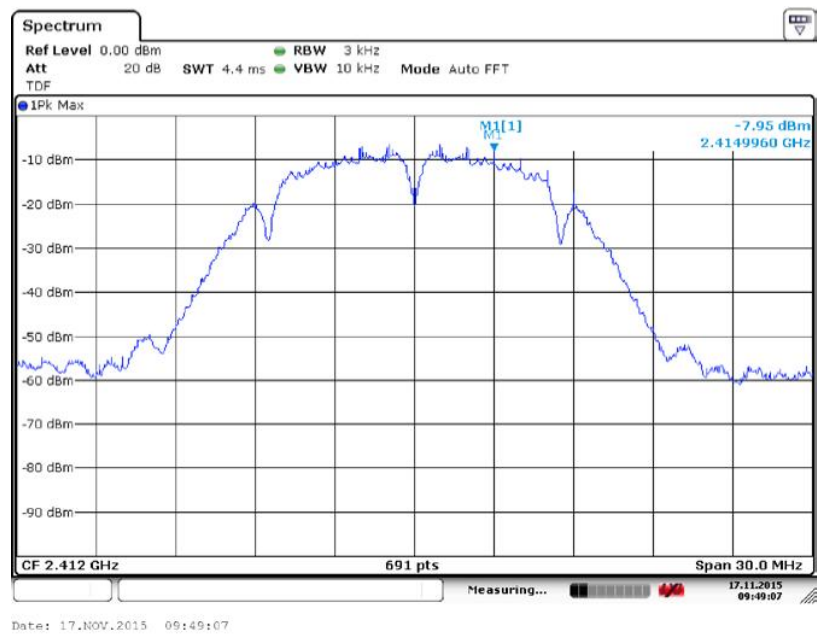


Fig.61 Power Spectral Density (802.11b, Ch 1)



Fig.62 Power Spectral Density (802.11b, Ch 6)



Fig.63 Power Spectral Density (802.11b, Ch 11)

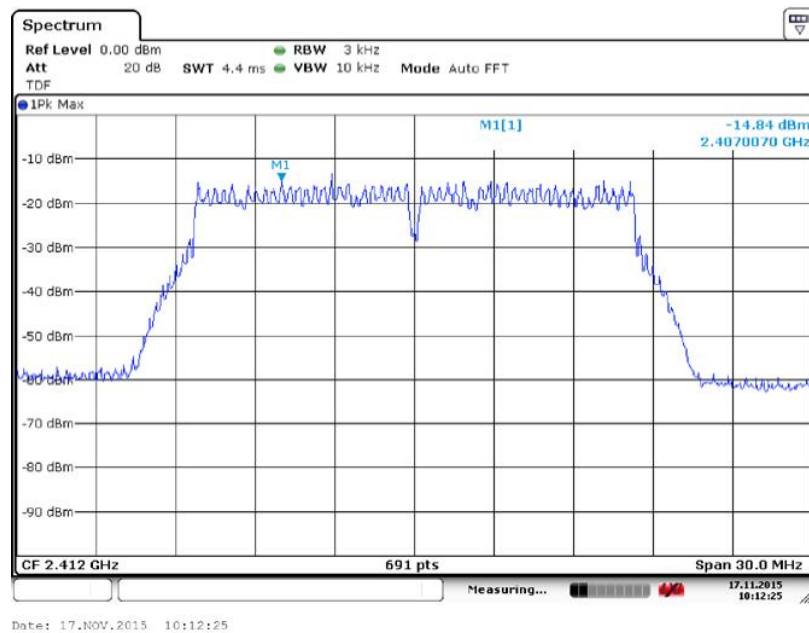


Fig.64 Power Spectral Density (802.11g, Ch 1)

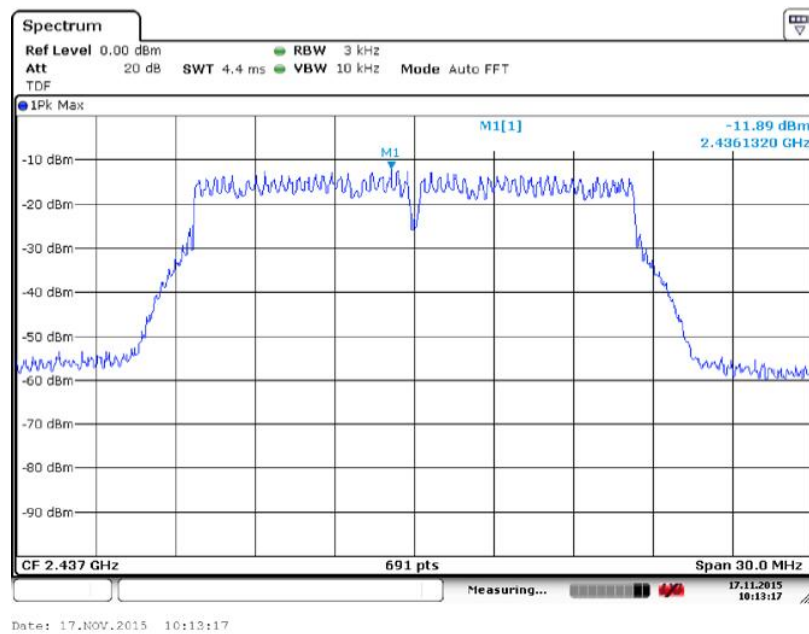


Fig.65 Power Spectral Density (802.11g, Ch 6)

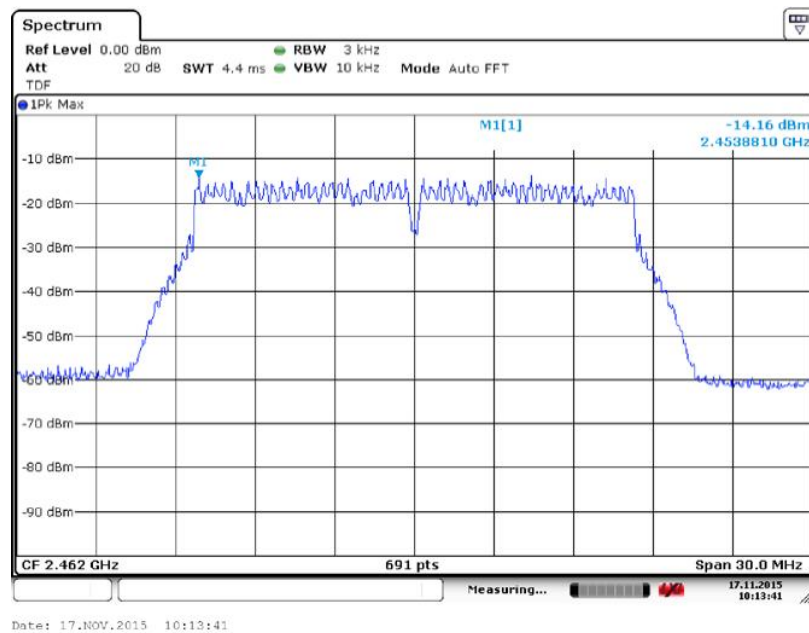


Fig.66 Power Spectral Density (802.11g, Ch 11)

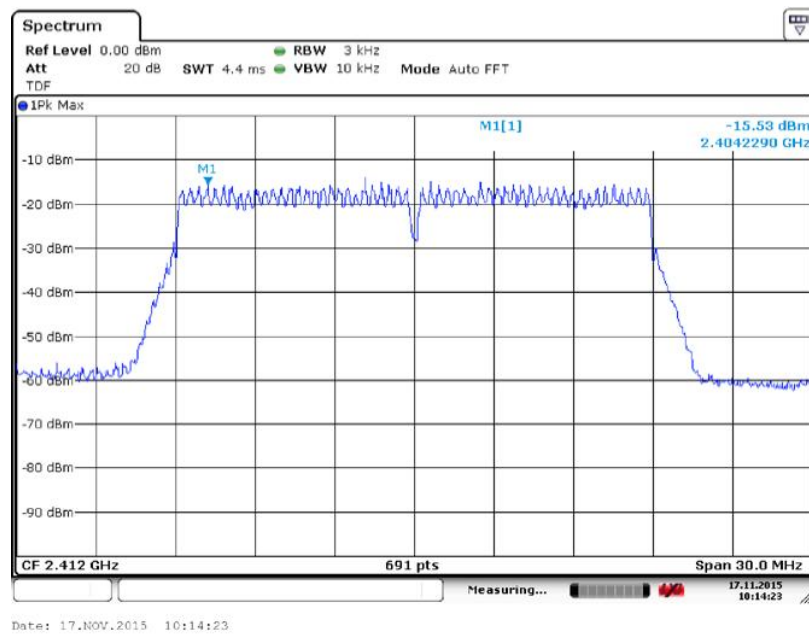


Fig.67 Power Spectral Density (802.11n-20MHz, Ch 1)

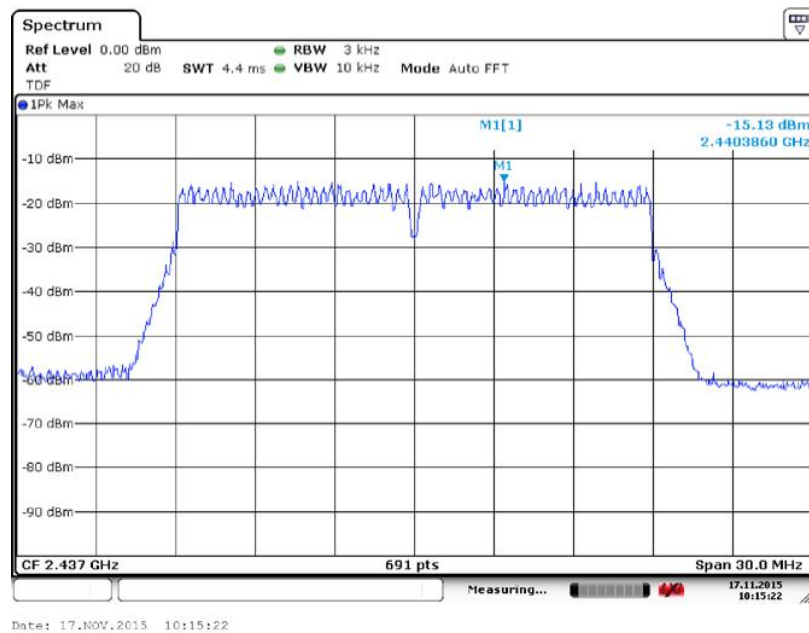


Fig.68 Power Spectral Density (802.11n-20MHz, Ch 6)

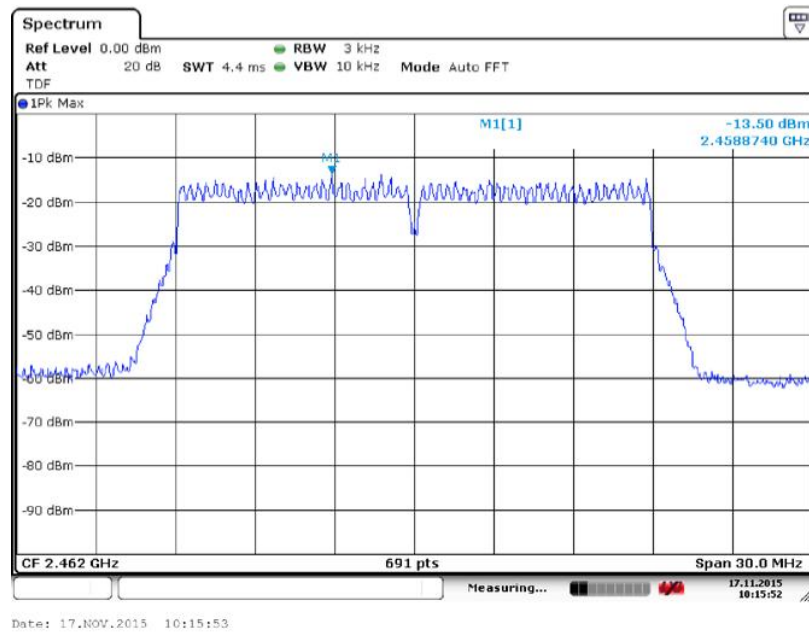


Fig.69 Power Spectral Density (802.11n-20MHz, Ch 11)

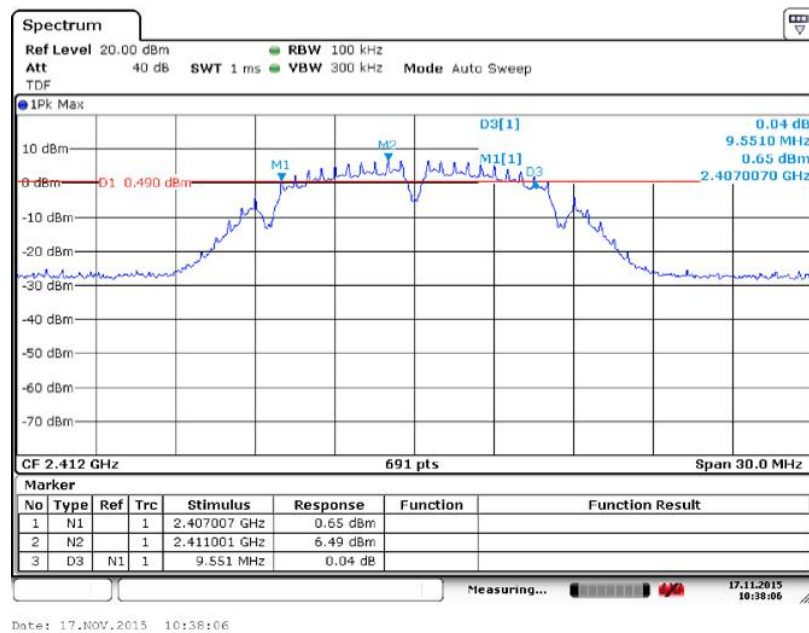


Fig.70 Occupied 6dB Bandwidth (802.11b, Ch 1)

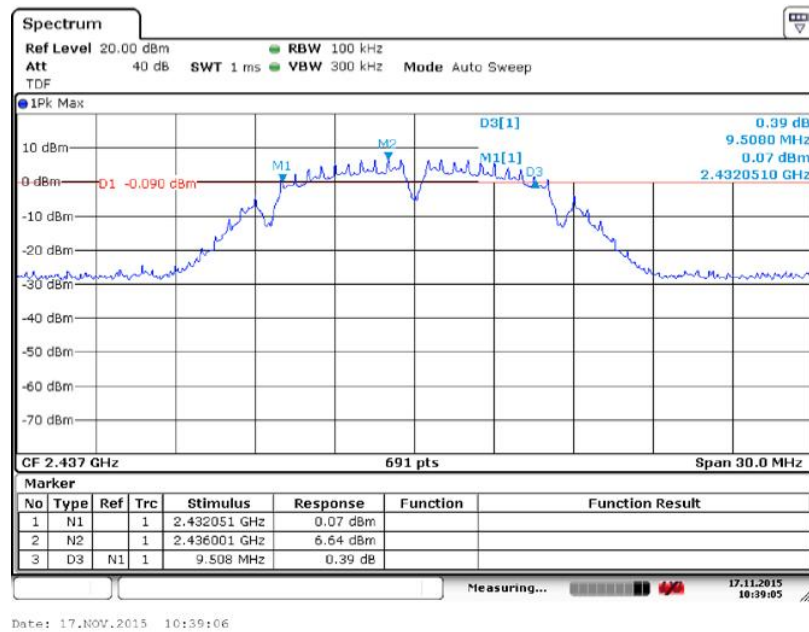


Fig.71 Occupied 6dB Bandwidth (802.11b, Ch 6)

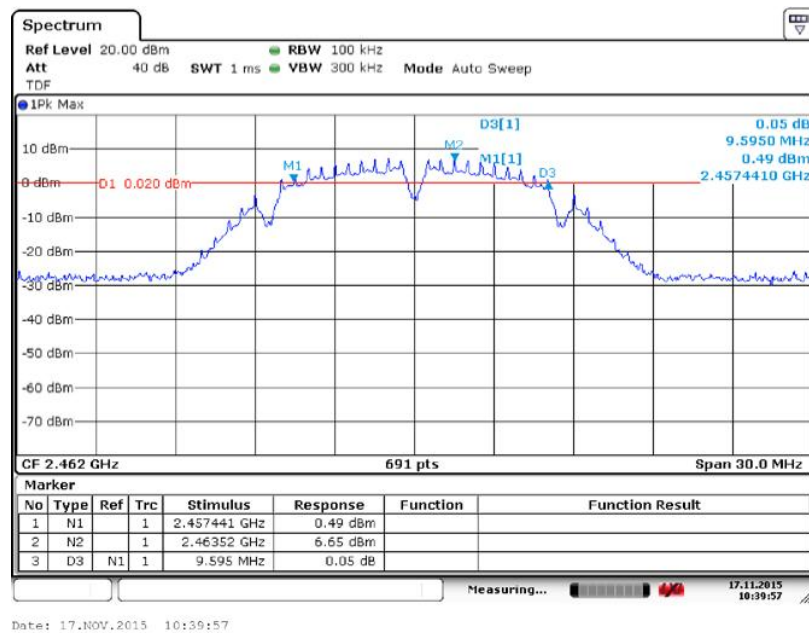


Fig.72 Occupied 6dB Bandwidth (802.11b, Ch 11)

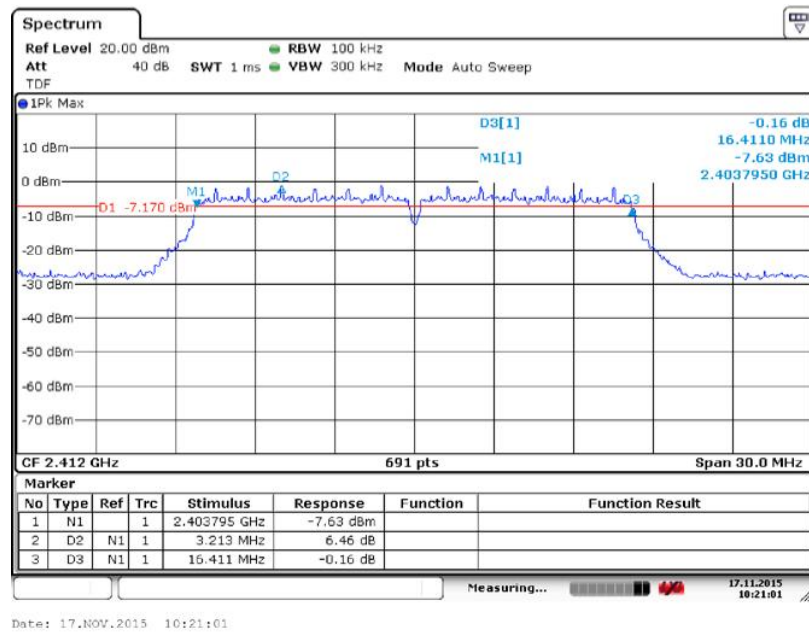


Fig.73 Occupied 6dB Bandwidth (802.11g, Ch 1)

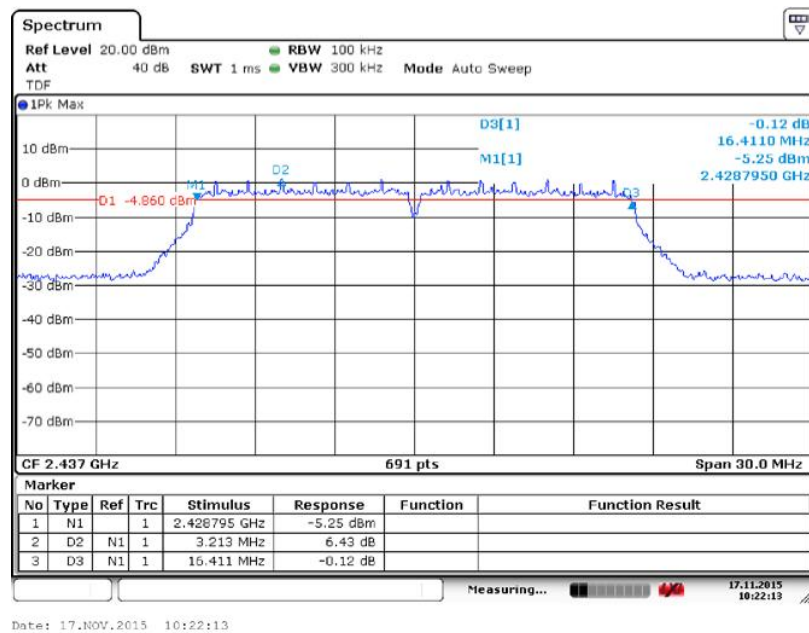


Fig.74 Occupied 6dB Bandwidth (802.11g, Ch 6)

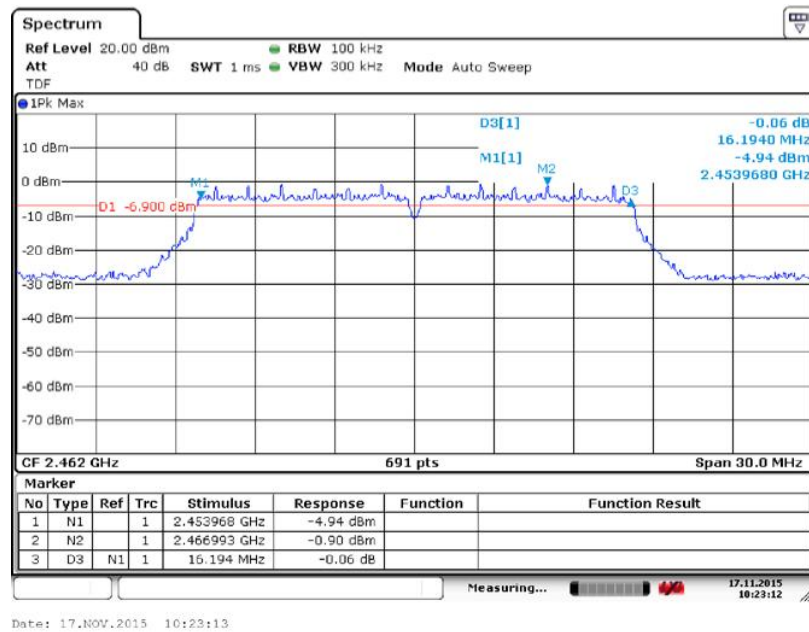


Fig.75 Occupied 6dB Bandwidth (802.11g, Ch 11)

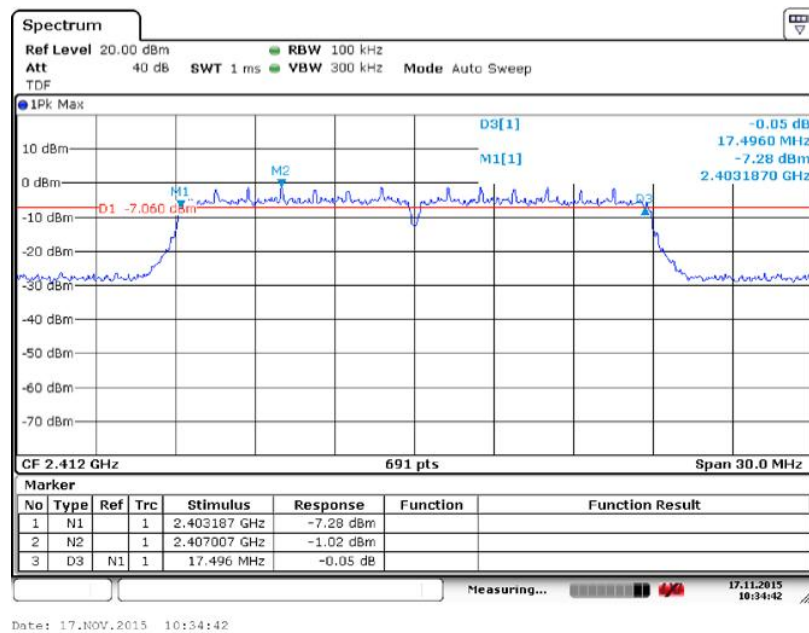


Fig.76 Occupied 6dB Bandwidth (802.11 n-20MHz, Ch 1)

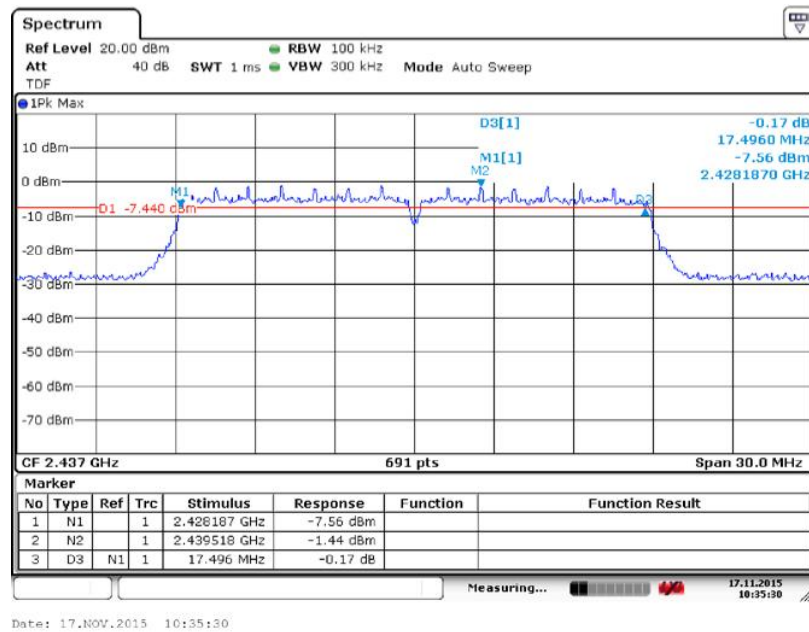


Fig.77 Occupied 6dB Bandwidth (802.11 n-20MHz, Ch 6)

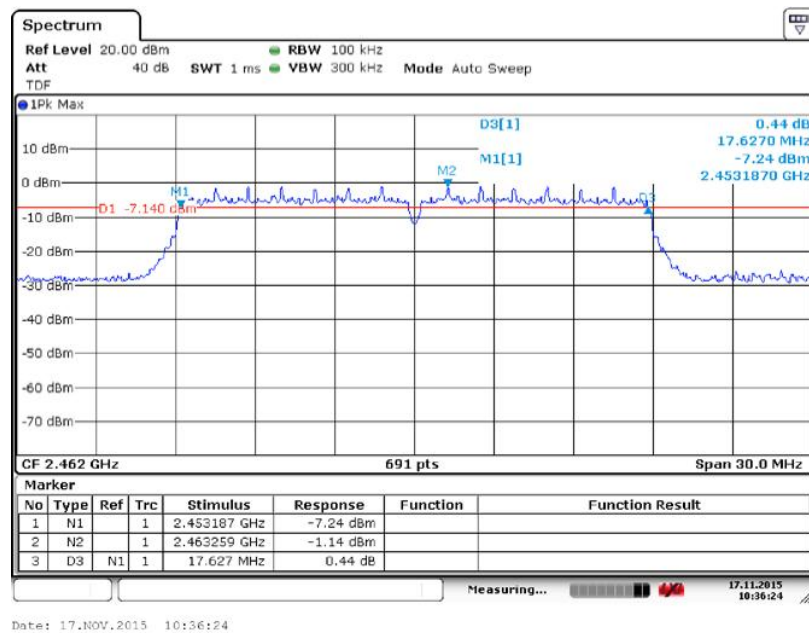


Fig.78 Occupied 6dB Bandwidth (802.11 n-20MHz, Ch 11)

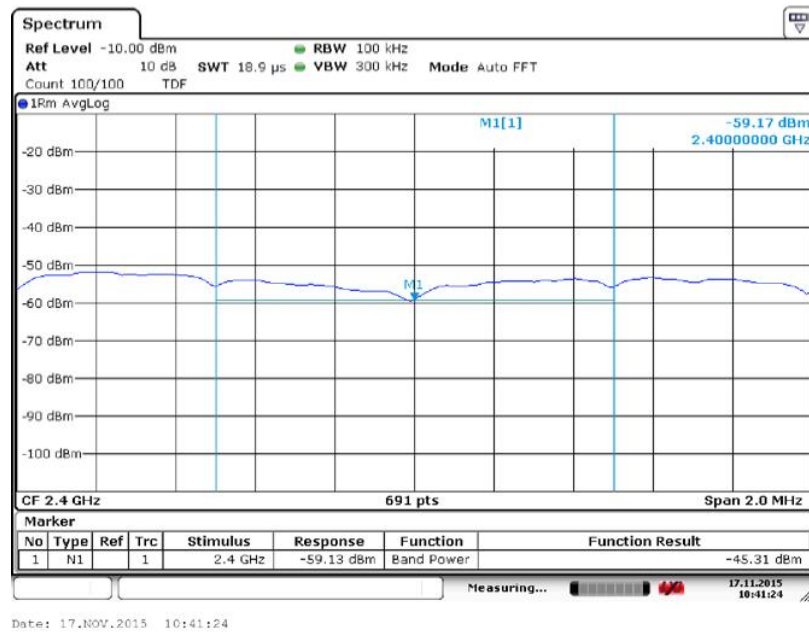


Fig.79 Band Edges (802.11b, Ch 1)

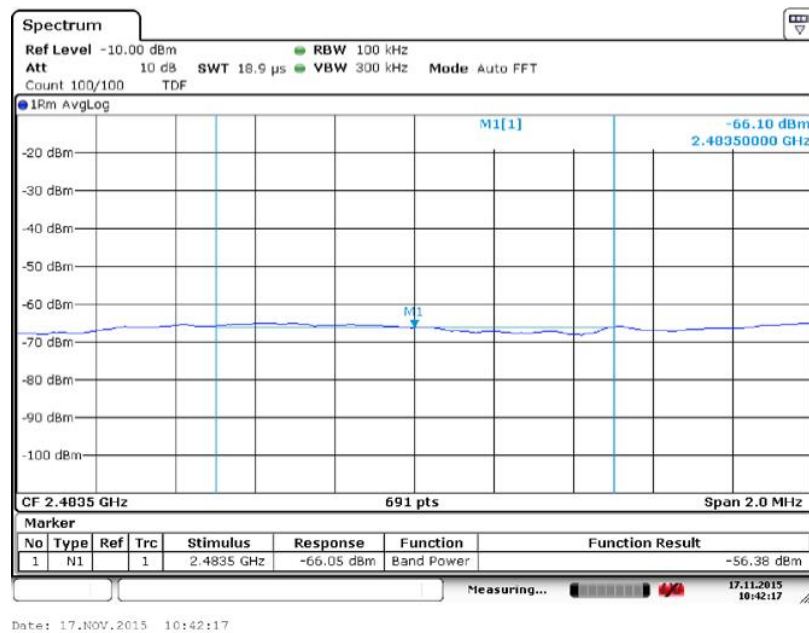


Fig.80 Band Edges (802.11b, Ch 11)

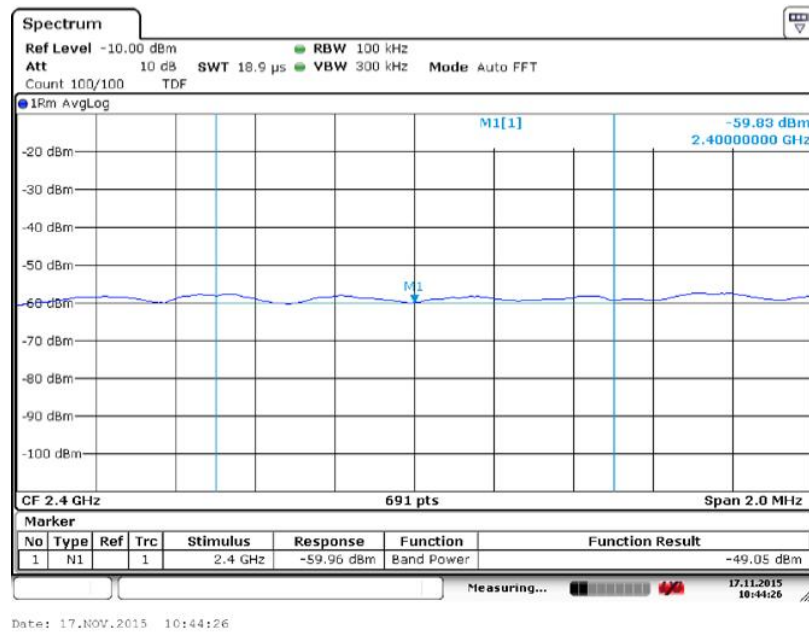


Fig.81 Band Edges (802.11g, Ch 1)

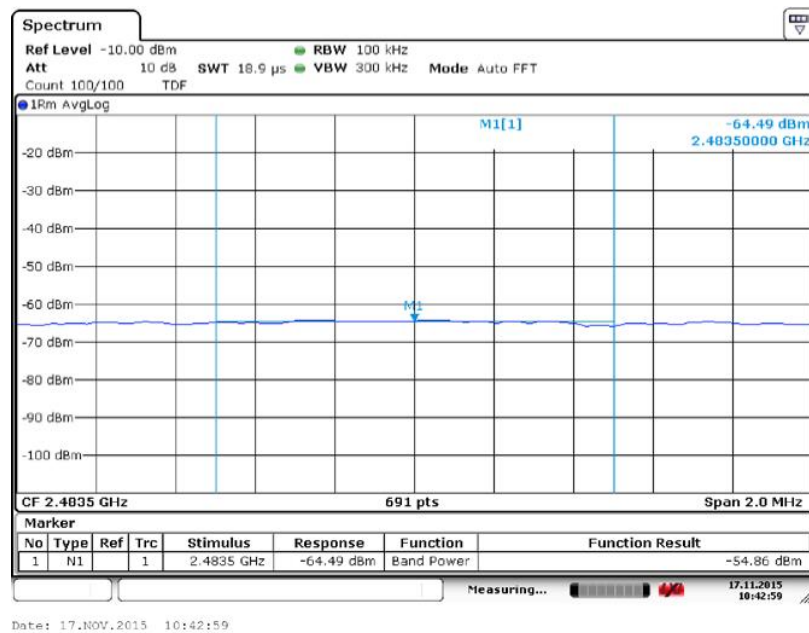


Fig.82 Band Edges (802.11g, Ch 11)

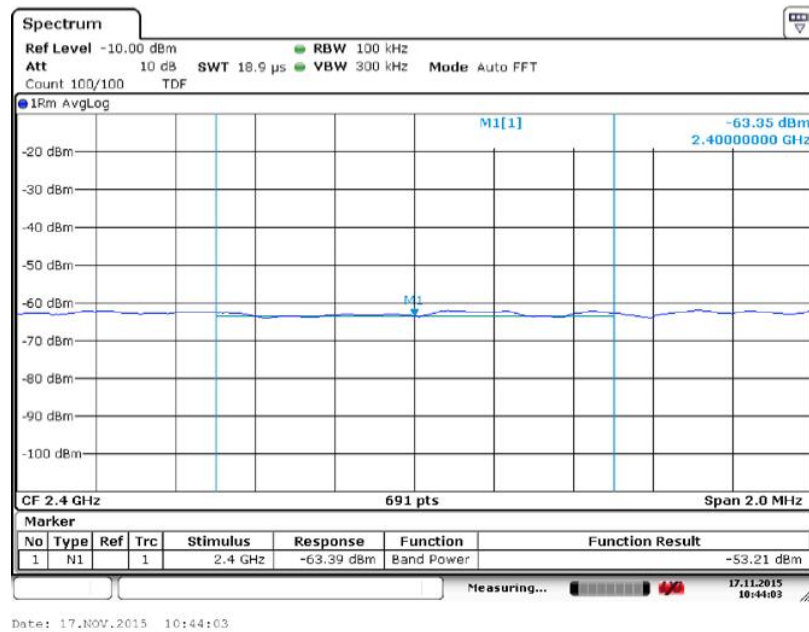


Fig.83 Band Edges (802.11 n-20MHz, Ch 1)

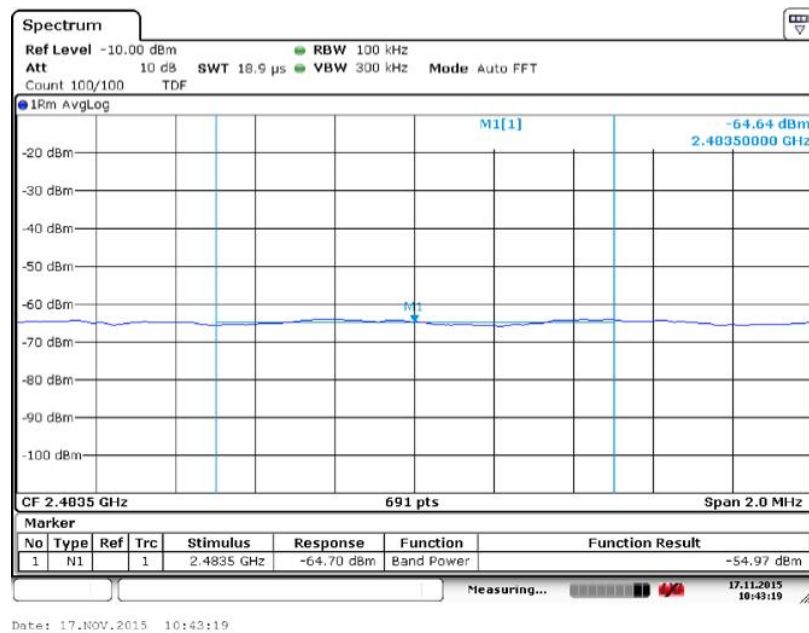


Fig.84 Band Edges (802.11 n-20MHz, Ch 11)

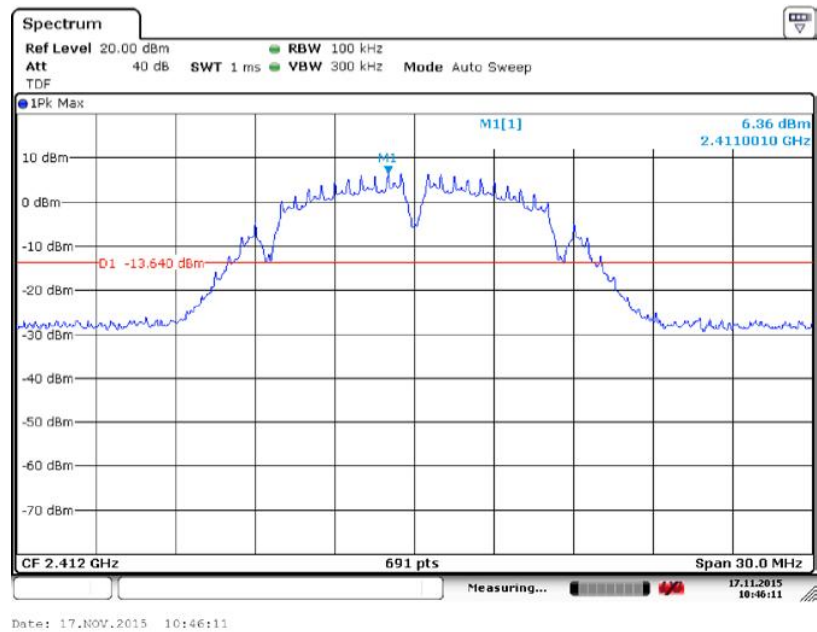


Fig.85 Conducted Spurious Emission (802.11b, Ch1, Center Frequency)

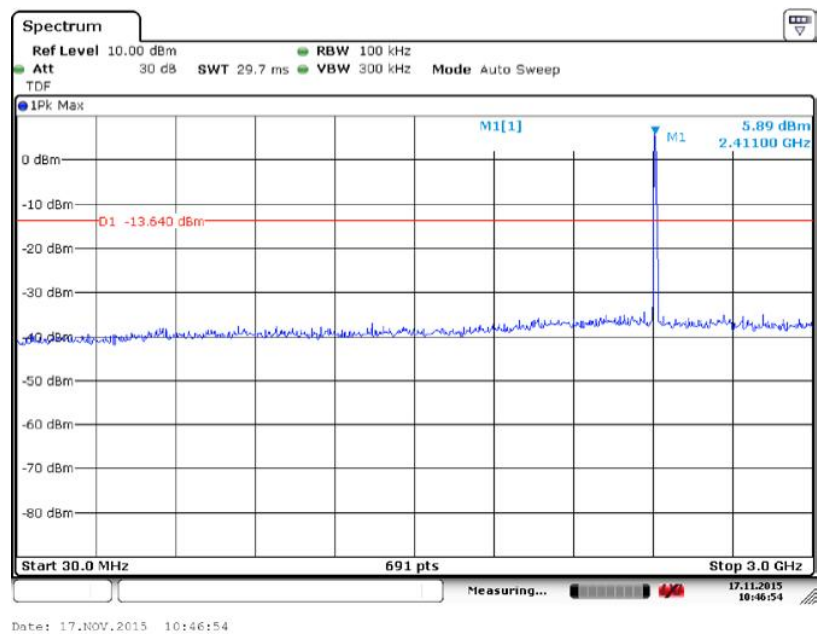


Fig.86 Conducted Spurious Emission (802.11b, Ch1, 30 MHz-3 GHz)

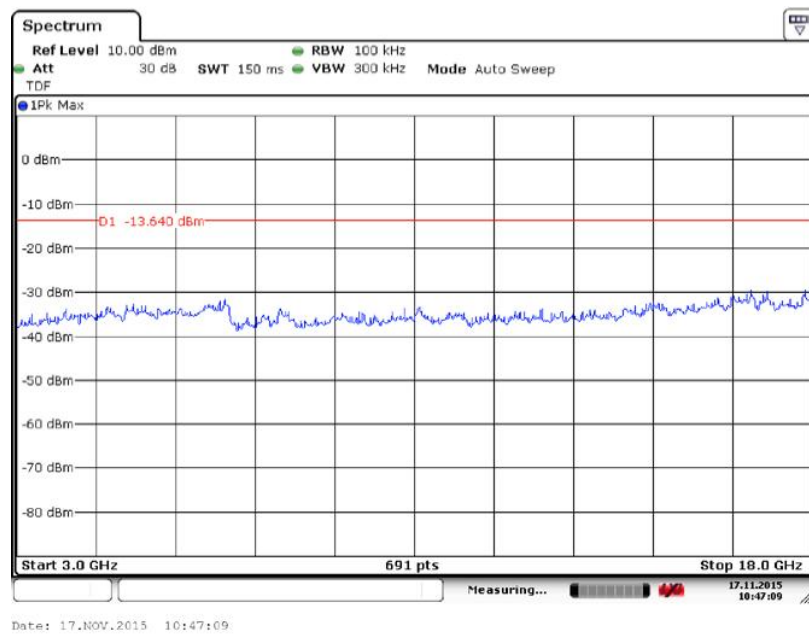


Fig.87 Conducted Spurious Emission (802.11b, Ch1, 3 GHz-18 GHz)

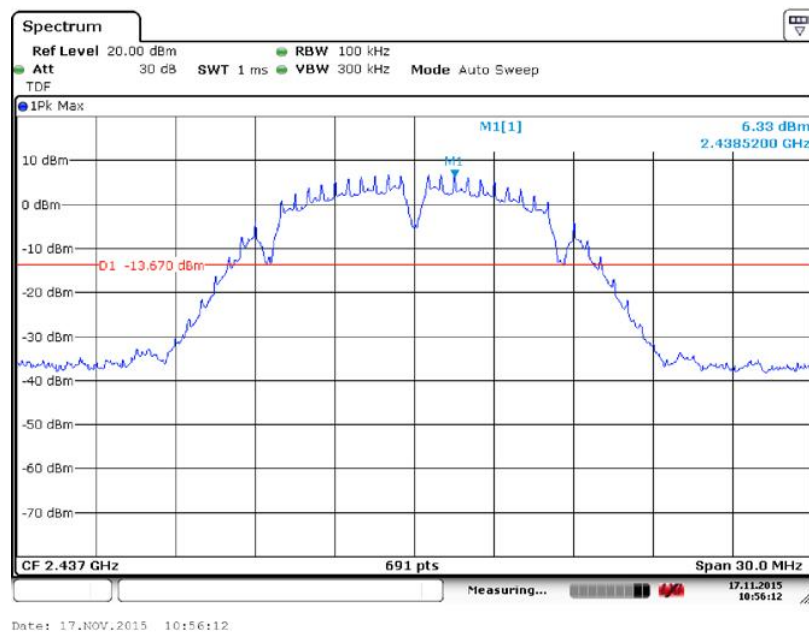


Fig.88 Conducted Spurious Emission (802.11b, Ch6, Center Frequency)

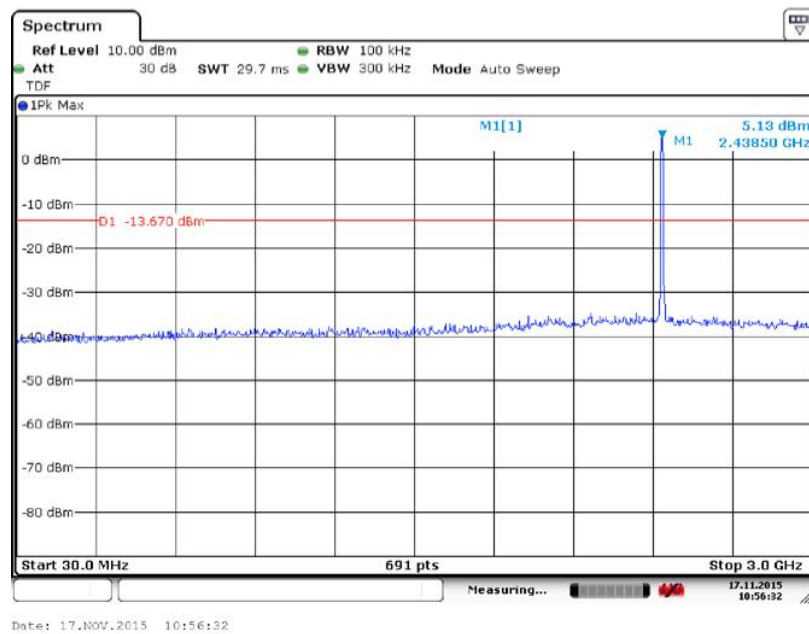


Fig.89 Conducted Spurious Emission (802.11b, Ch6, 30 MHz-3 GHz)

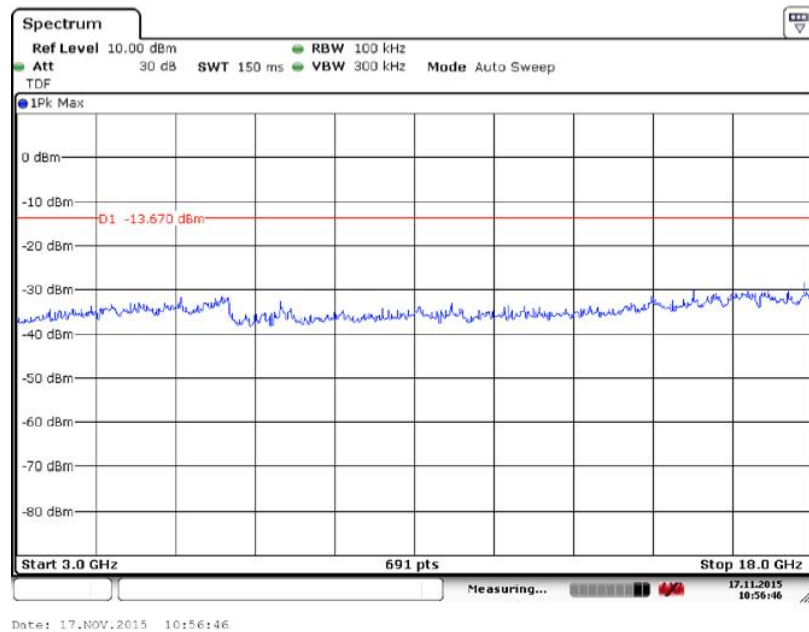


Fig.90 Conducted Spurious Emission (802.11b, Ch6, 3 GHz-18 GHz)

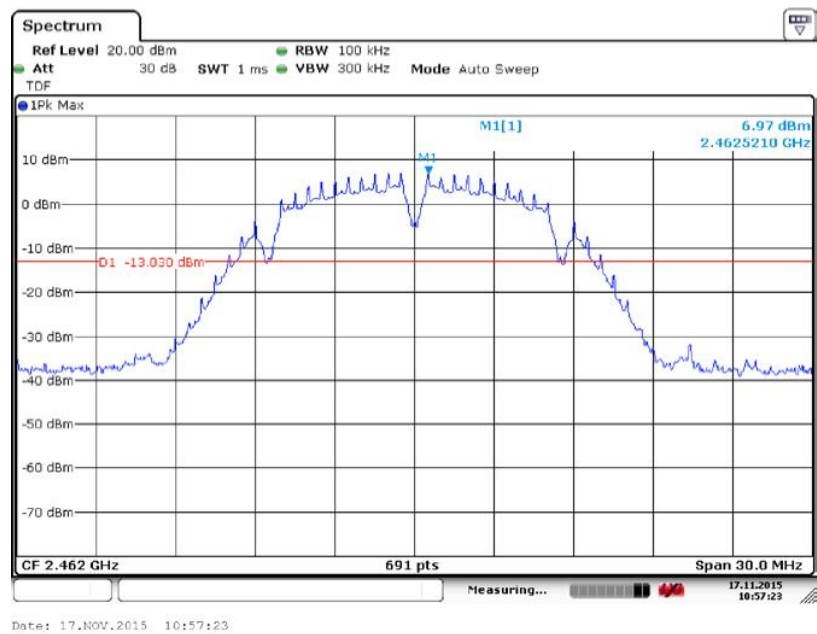


Fig.91 Conducted Spurious Emission (802.11b, Ch11, Center Frequency)

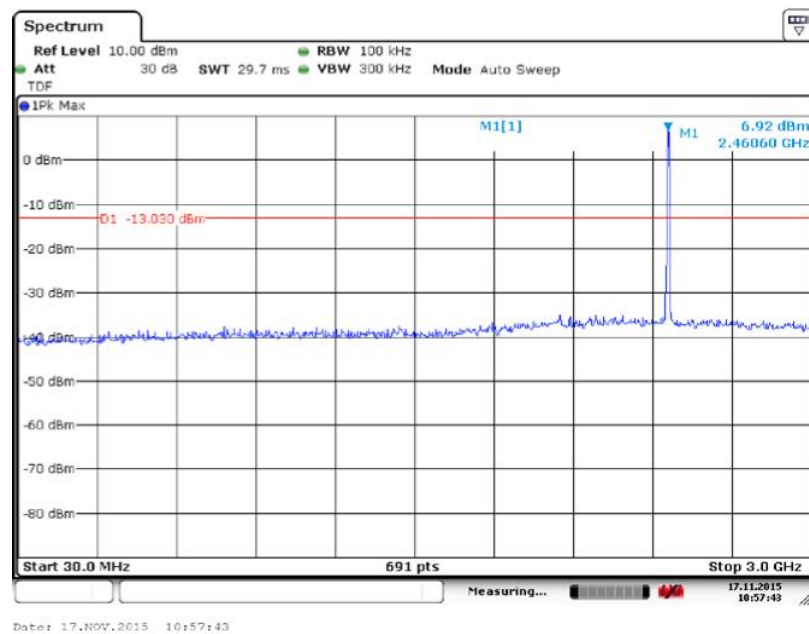


Fig.92 Conducted Spurious Emission (802.11b, Ch11, 30 MHz-3 GHz)

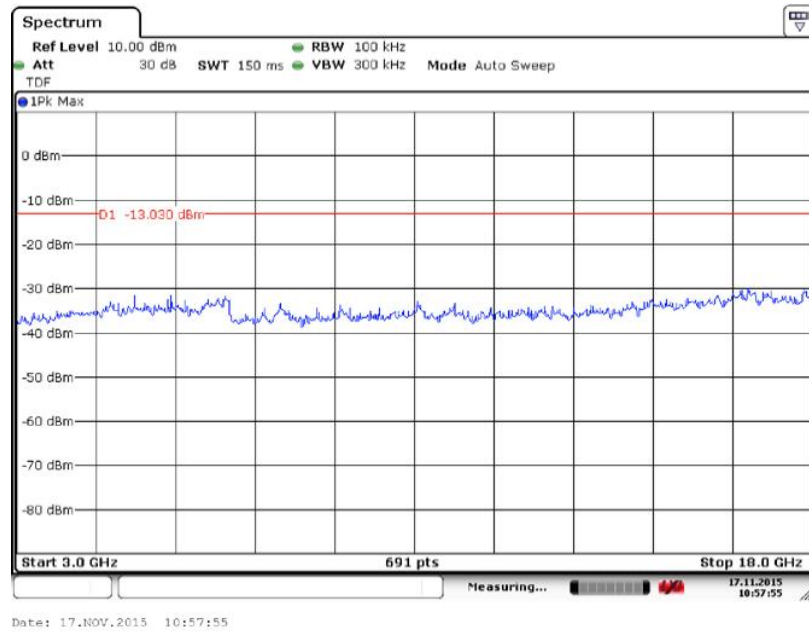


Fig.93 Conducted Spurious Emission (802.11b, Ch11, 3 GHz-18 GHz)

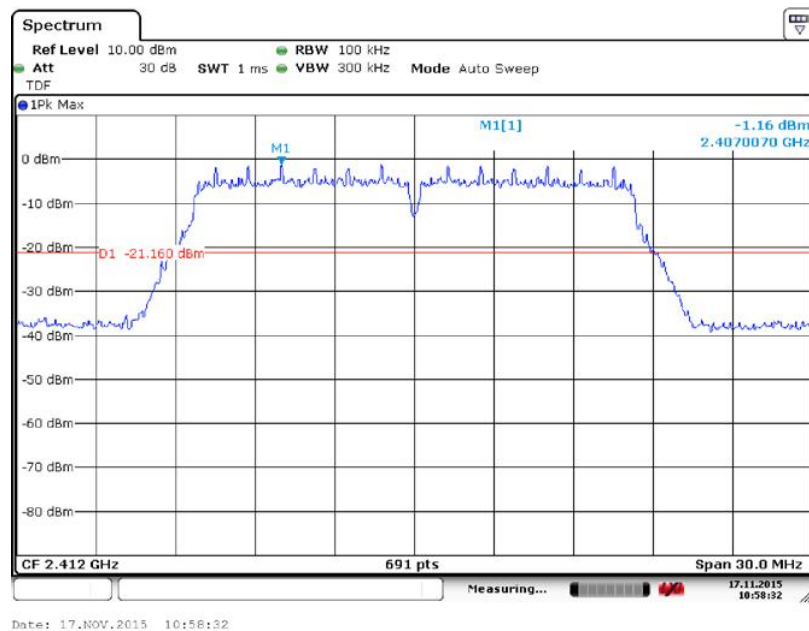


Fig.94 Conducted Spurious Emission (802.11g, Ch1, Center Frequency)

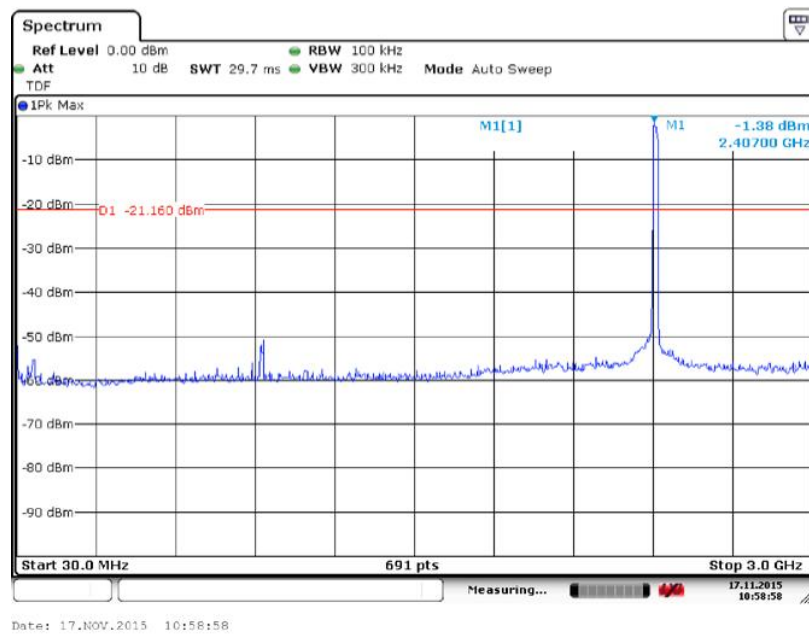


Fig.95 Conducted Spurious Emission (802.11g, Ch1, 30 MHz-3 GHz)

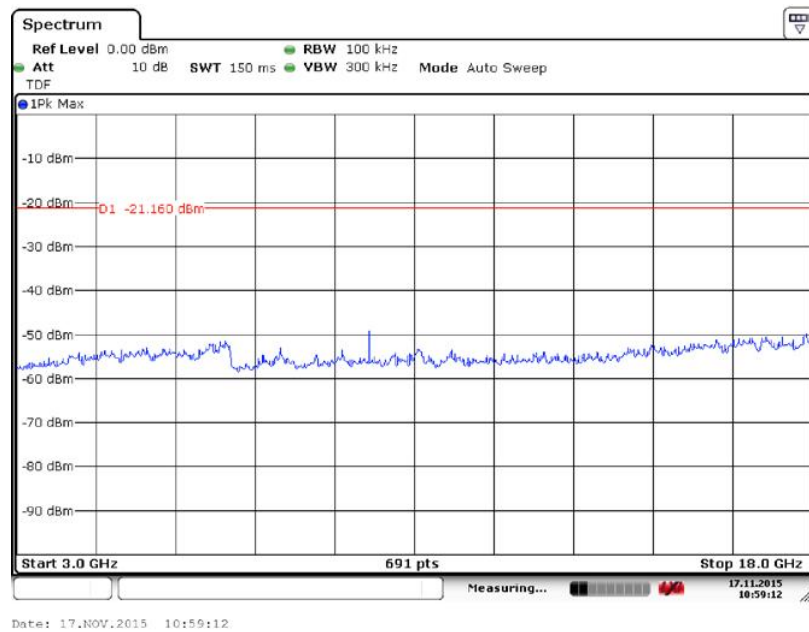


Fig.96 Conducted Spurious Emission (802.11g, Ch1, 3 GHz-18 GHz)

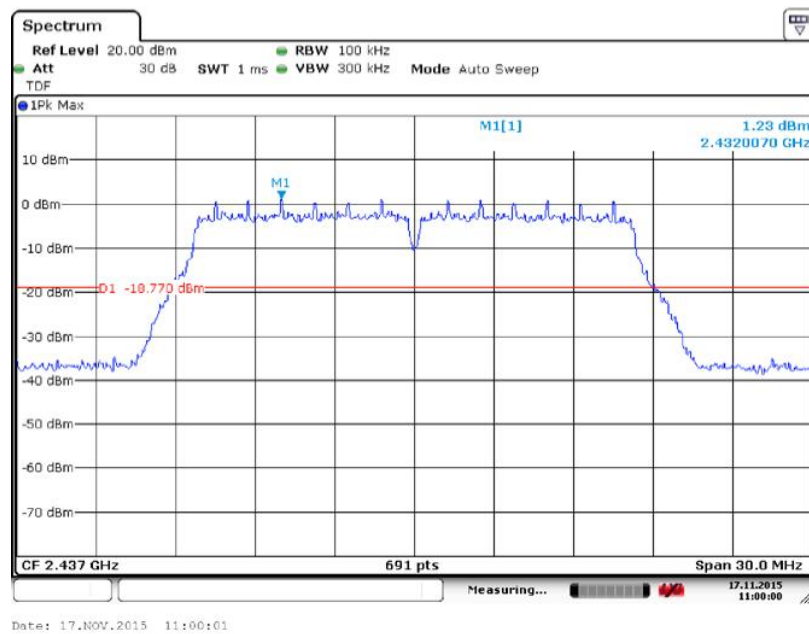


Fig.97 Conducted Spurious Emission (802.11g, Ch6, Center Frequency)

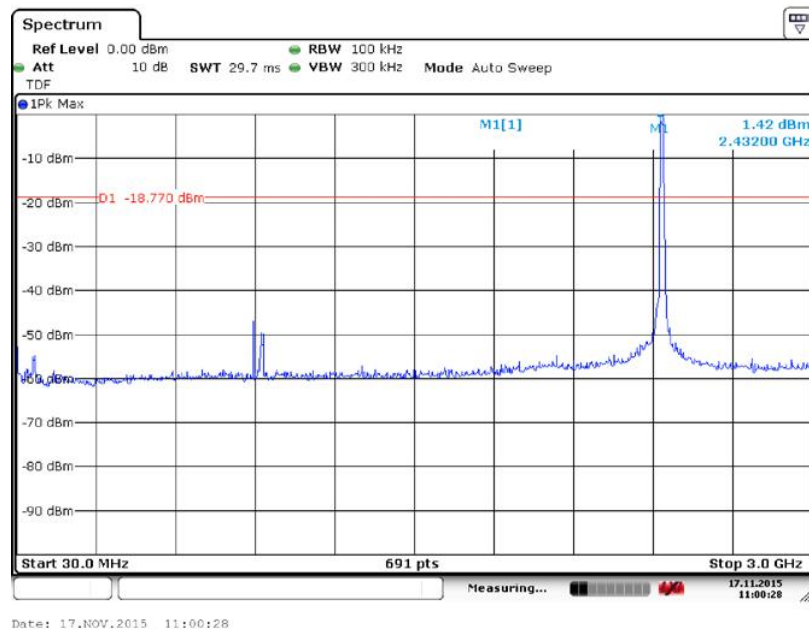


Fig.98 Conducted Spurious Emission (802.11g, Ch6, 30 MHz-3 GHz)

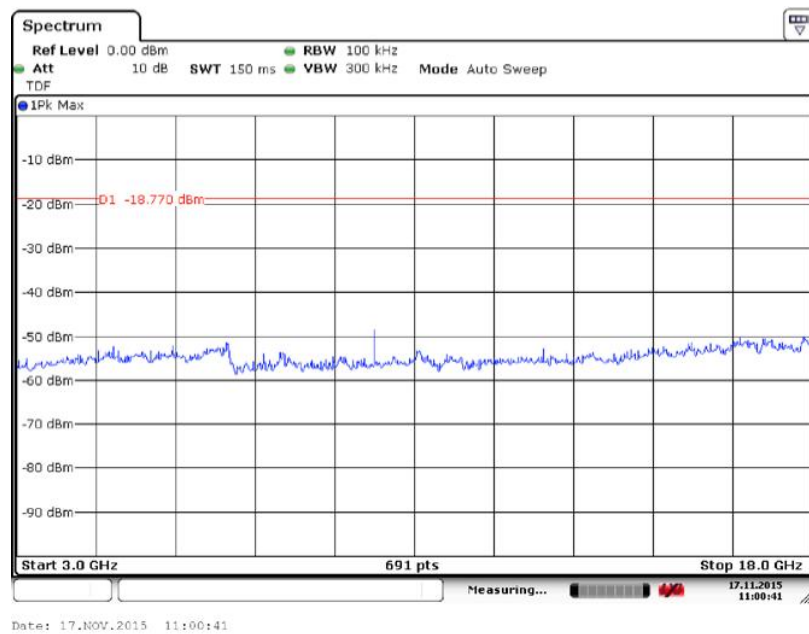


Fig.99 Conducted Spurious Emission (802.11g, Ch6, 3 GHz-18 GHz)

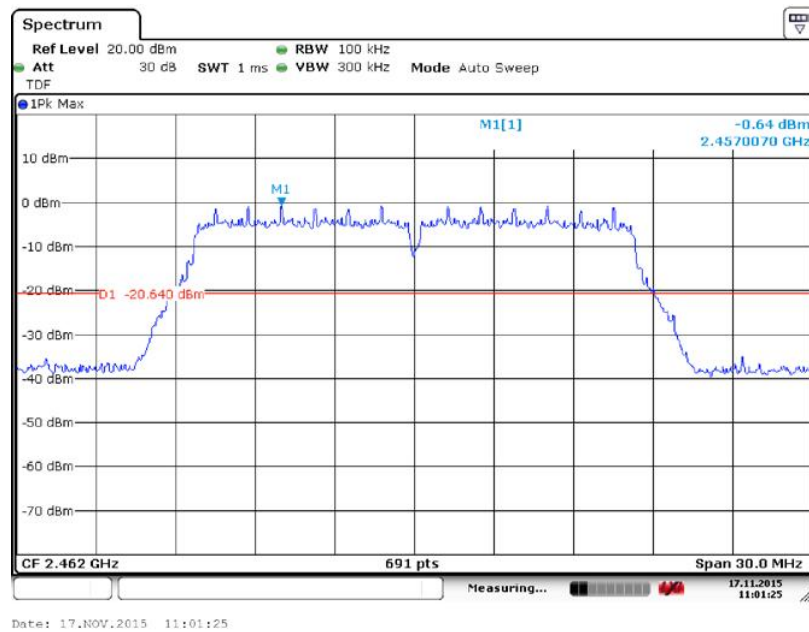


Fig.100 Conducted Spurious Emission (802.11g, Ch11, Center Frequency)

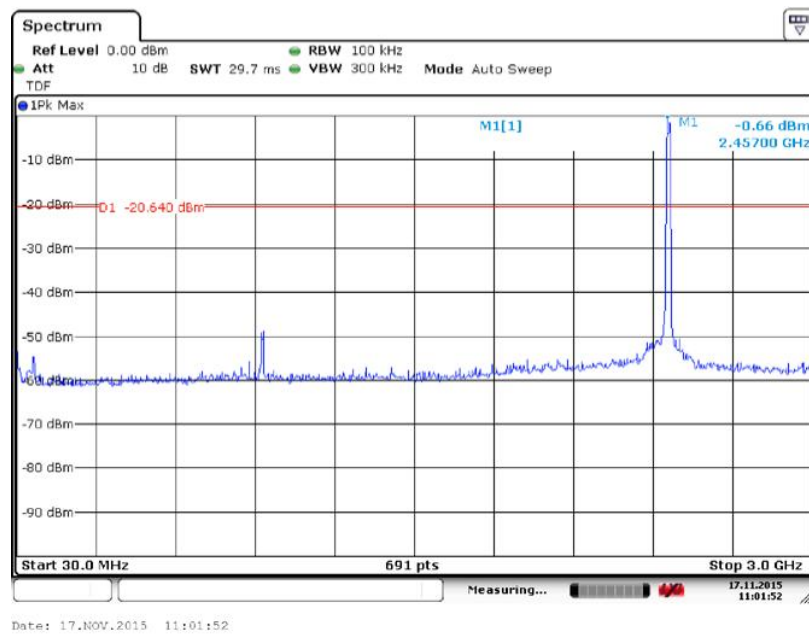


Fig.101 Conducted Spurious Emission (802.11g, Ch11, 30 MHz-3 GHz)

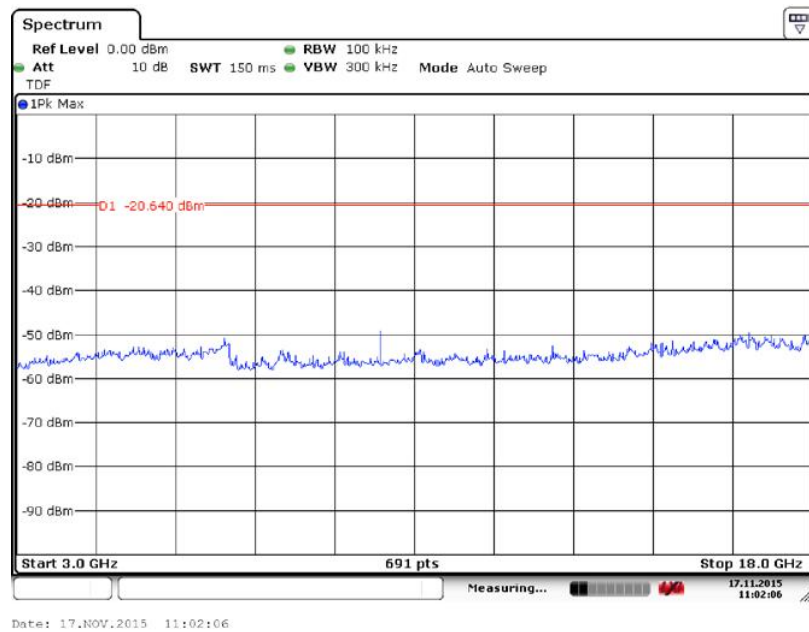


Fig.102 Conducted Spurious Emission (802.11g, Ch11, 3 GHz-18 GHz)

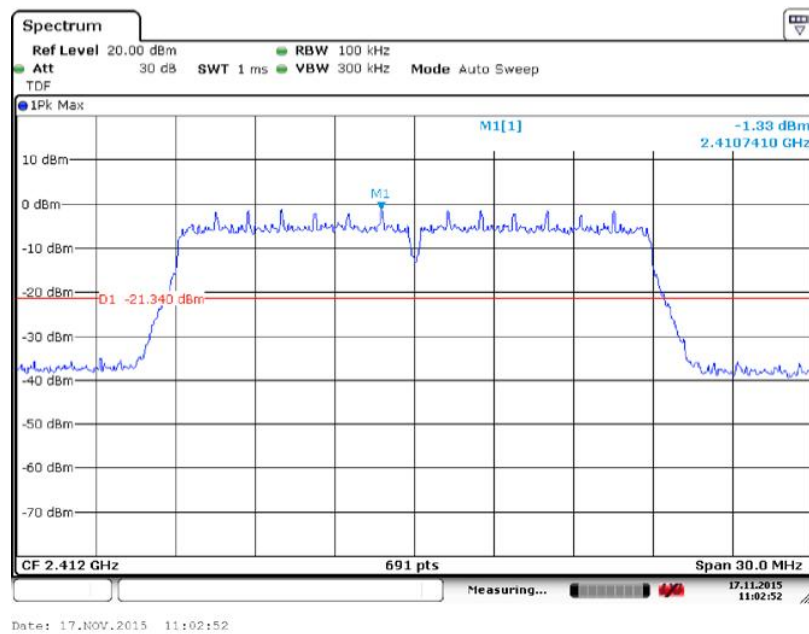


Fig.103 Conducted Spurious Emission (802.11n-20M, Ch1, Center Frequency)

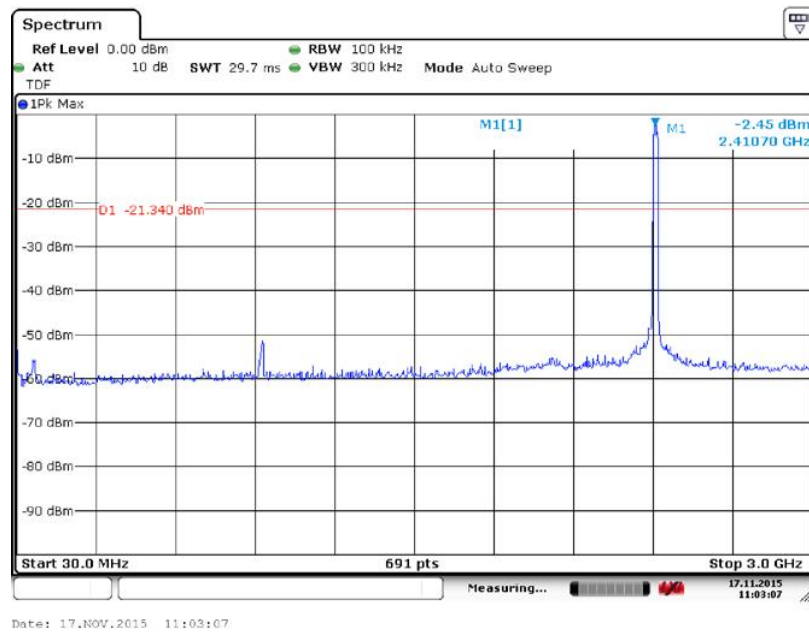


Fig.104 Conducted Spurious Emission (802.11n-20M, Ch1, 30 MHz-3 GHz)

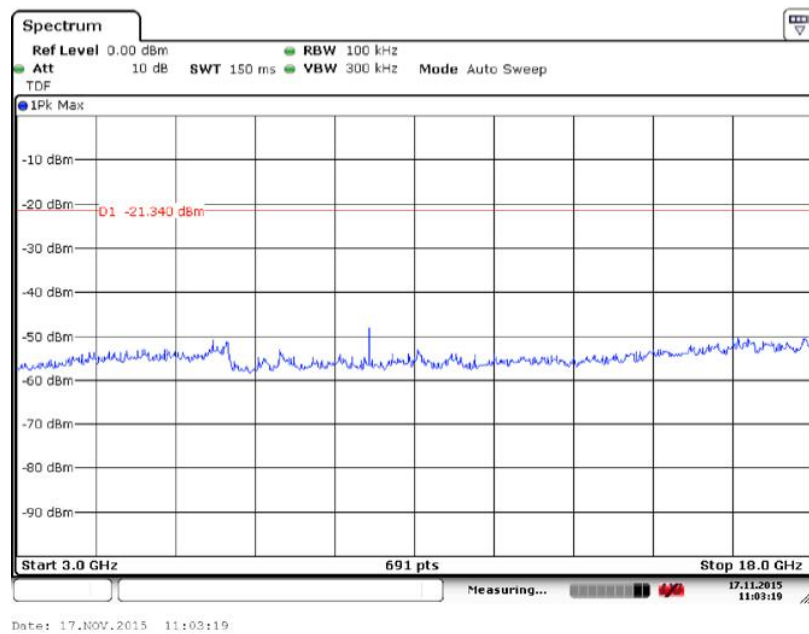


Fig.105 Conducted Spurious Emission (802.11n-20M, Ch1, 3 GHz-18 GHz)

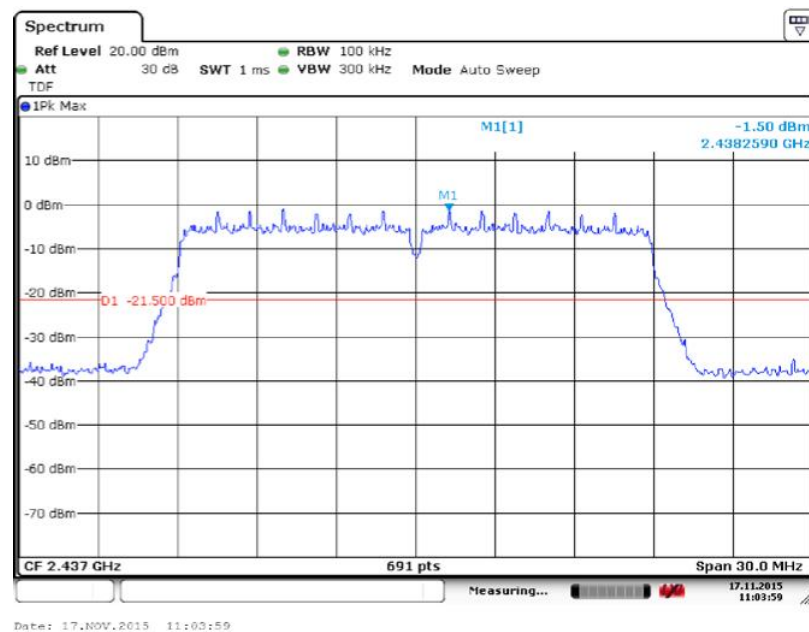


Fig.106 Conducted Spurious Emission (802.11n-20M, Ch6, Center Frequency)

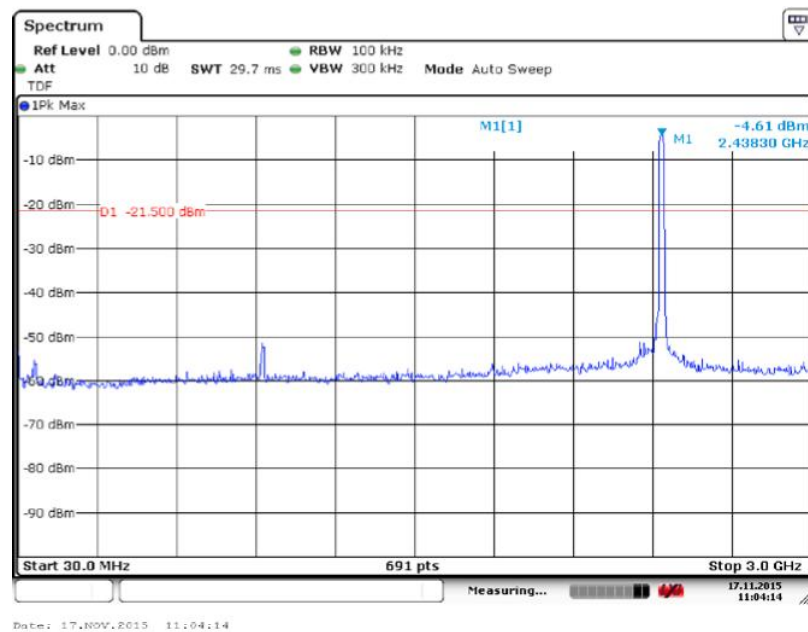


Fig.107 Conducted Spurious Emission (802.11n-20M, Ch6, 30 MHz-3 GHz)

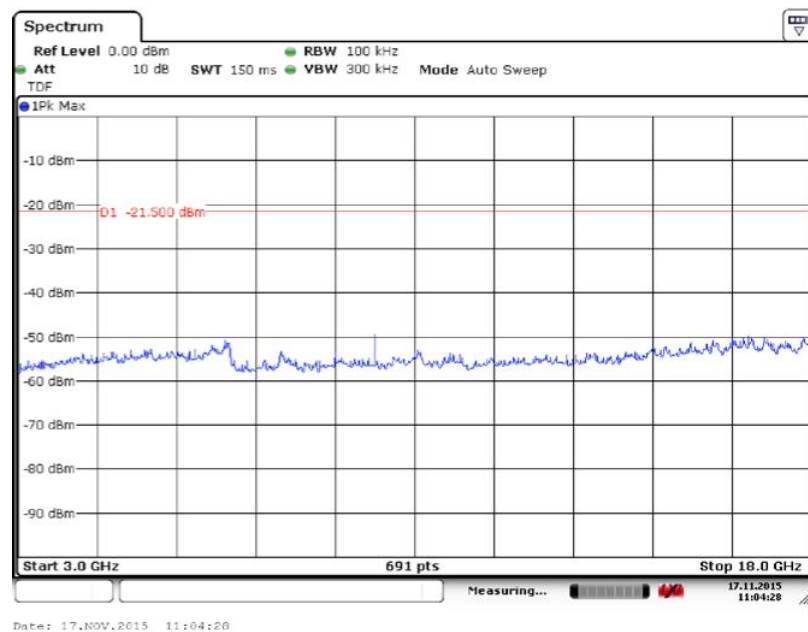


Fig.108 Conducted Spurious Emission (802.11n-20M, Ch6, 3 GHz-18 GHz)

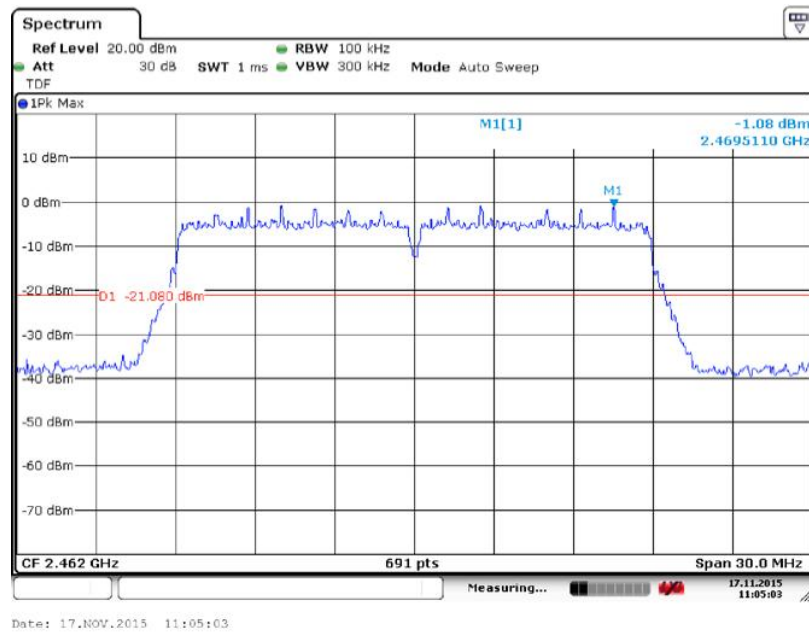


Fig.109 Conducted Spurious Emission (802.11n-20M, Ch11, Center Frequency)

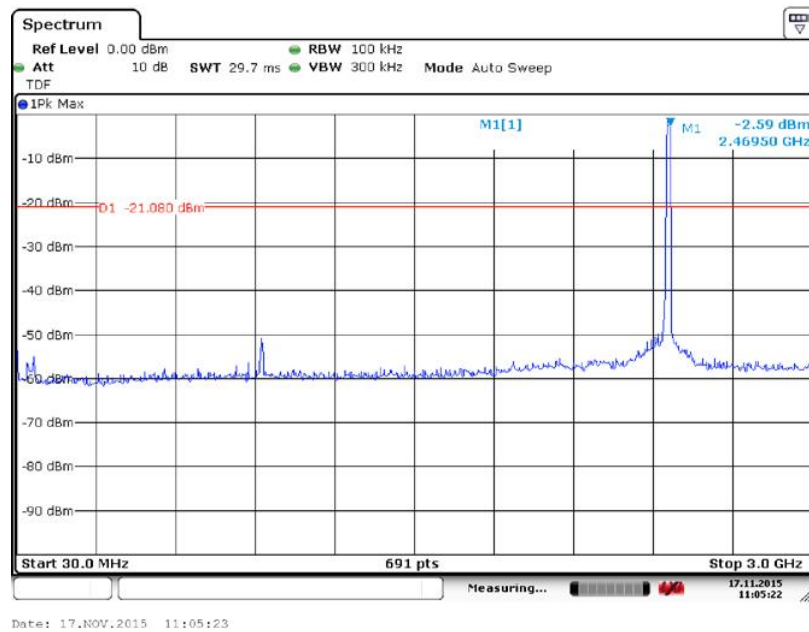


Fig.110 Conducted Spurious Emission (802.11n-20M, Ch11, 30 MHz-3 GHz)

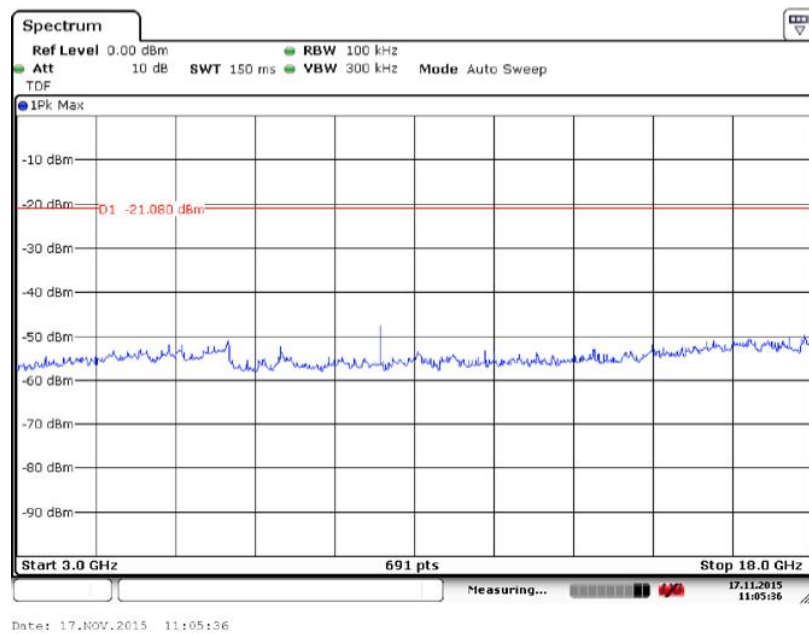


Fig.111 Conducted Spurious Emission (802.11n-20M, Ch11, 3 GHz-18 GHz)

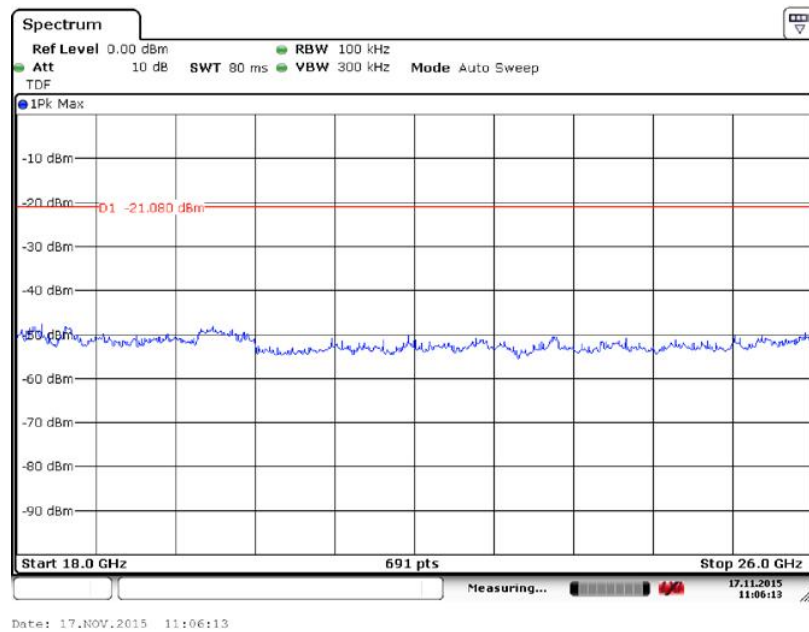


Fig.112 Conducted Spurious Emission (All channels, 18 GHz-26 GHz)

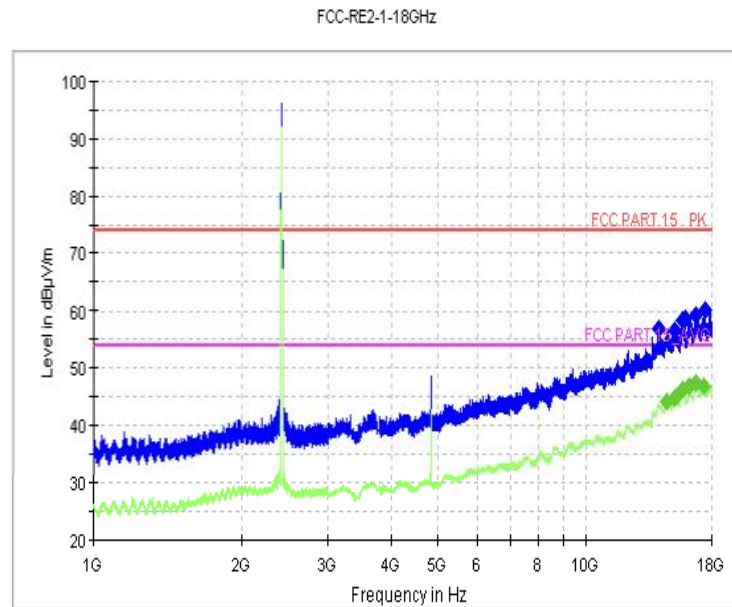


Fig.113 Radiated Spurious Emission (802.11b, Ch1, 1 GHz-18GHz)

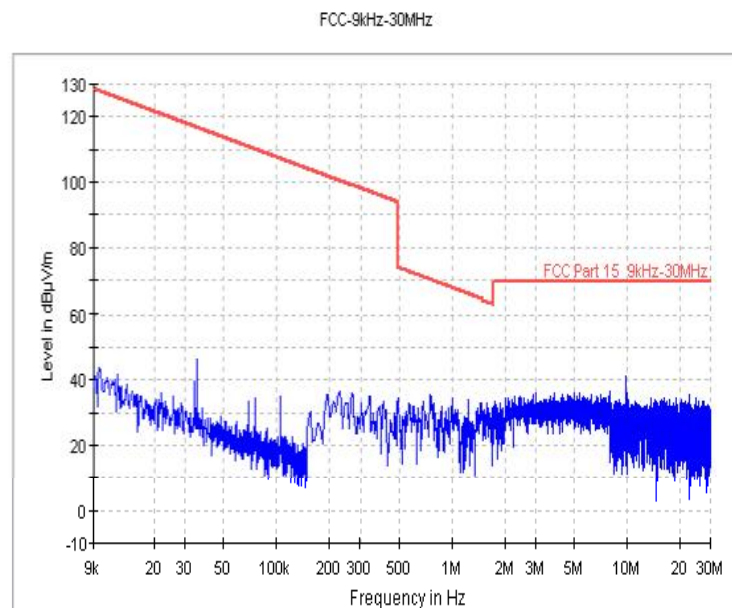


Fig.114 Radiated Spurious Emission (802.11b, Ch6, 9 kHz-30MHz)

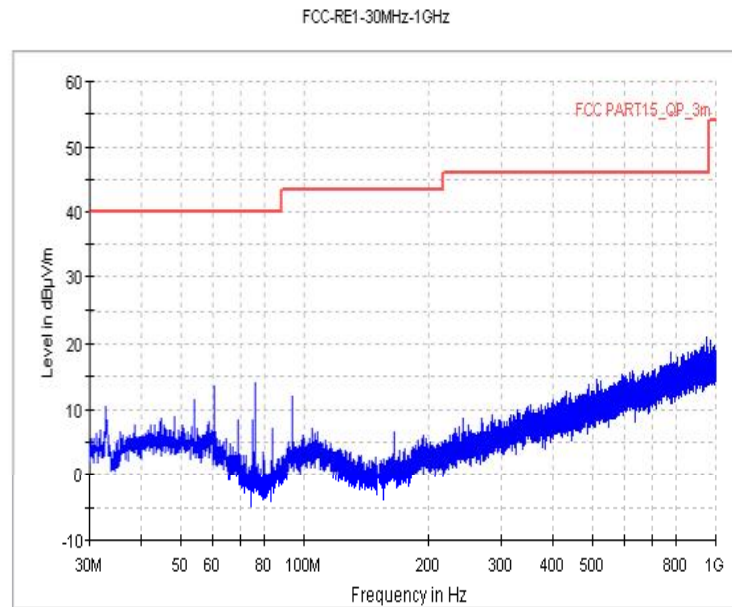


Fig.115 Radiated Spurious Emission (802.11b, Ch6, 30MHz-1 GHz)

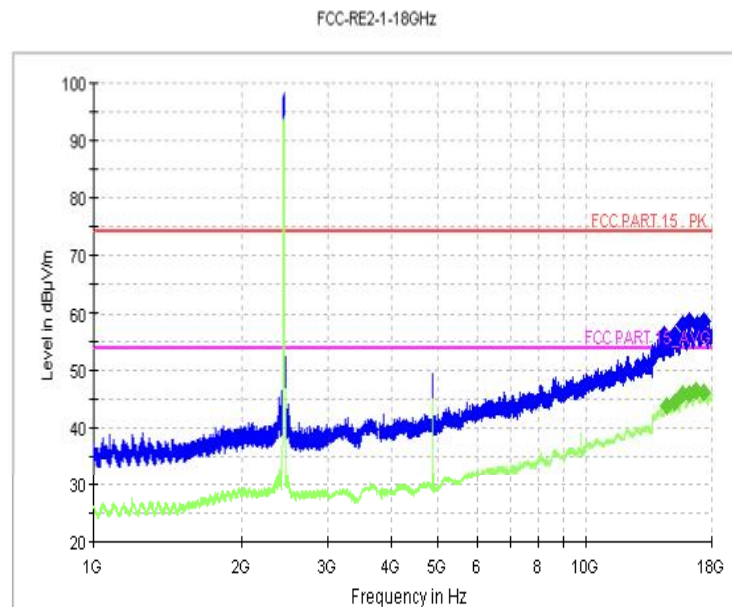


Fig.116 Radiated Spurious Emission (802.11b, Ch6, 1 GHz-18GHz)

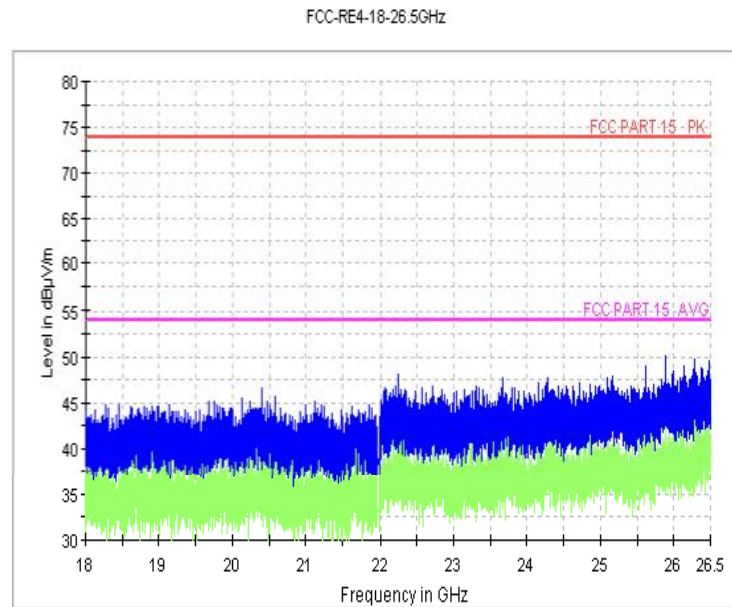


Fig.117 Radiated Spurious Emission (802.11b, Ch6, 18 GHz-26.5GHz)

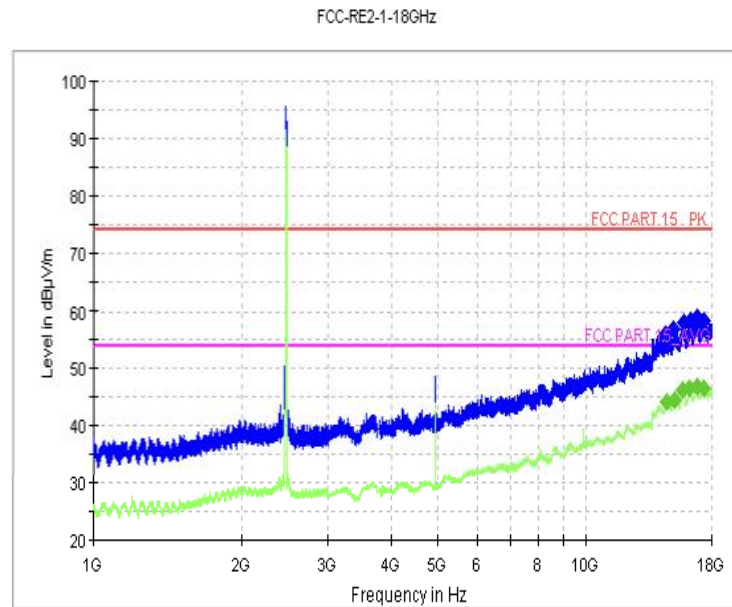


Fig.118 Radiated Spurious Emission (802.11b, Ch11, 1 GHz-18 GHz)

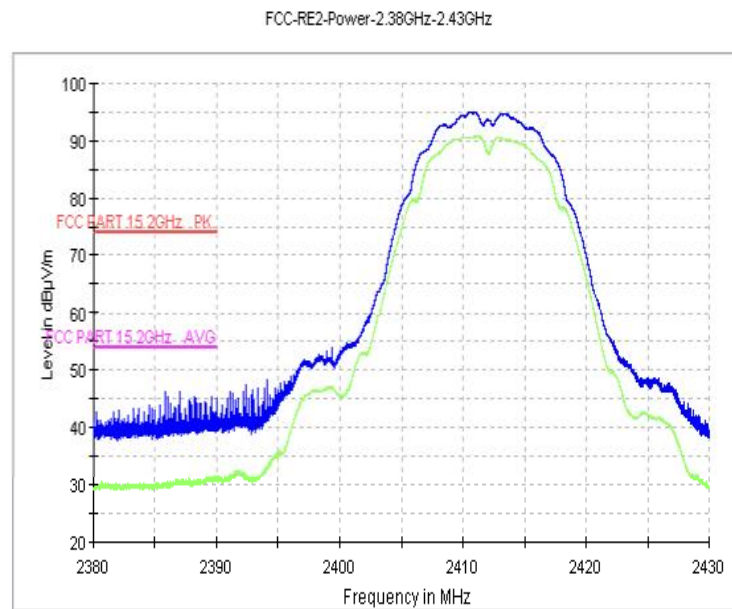


Fig.119 Radiated Emission Power (802.11b, Ch1, 2380GHz~2450GHz)

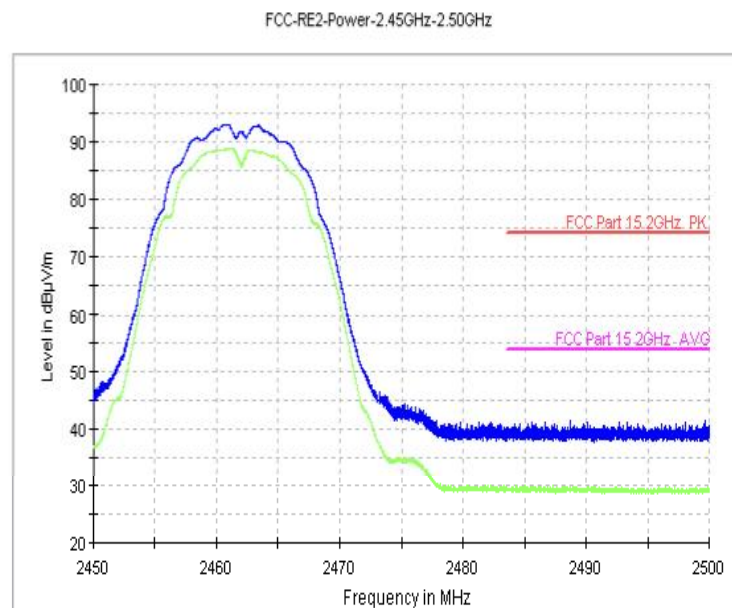


Fig.120 Radiated Emission Power (802.11b, Ch11, 2450GHz~2500GHz)

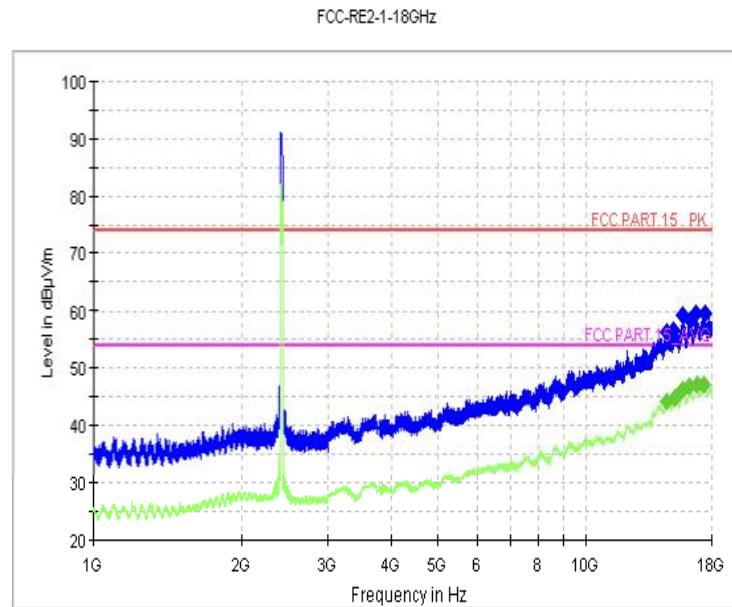


Fig.121 Radiated Spurious Emission (802.11g, Ch1, 1 GHz-18GHz)

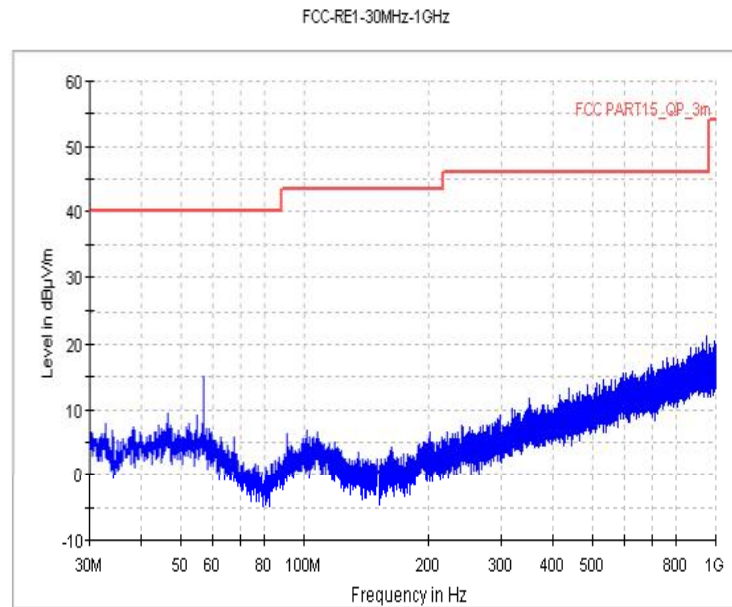


Fig.122 Radiated Spurious Emission (802.11g, Ch6, 30MHz-1 GHz)

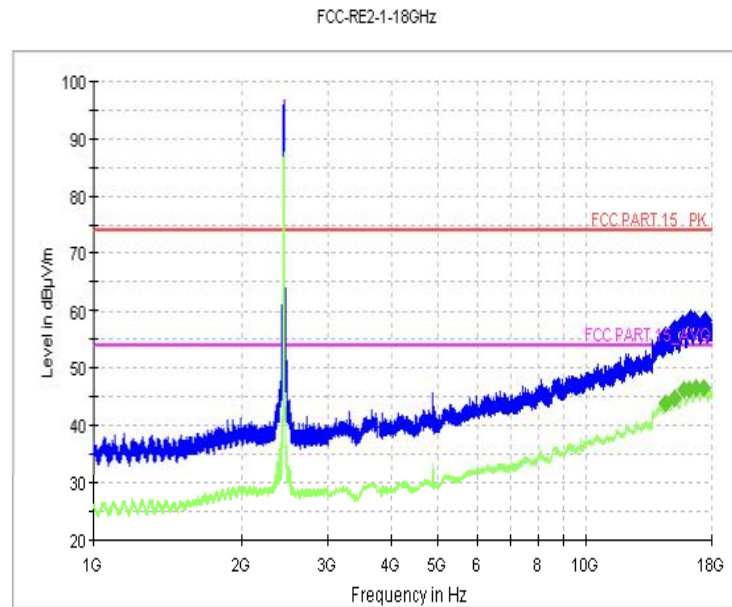


Fig.123 Radiated Spurious Emission (802.11g, Ch6, 1 GHz-18GHz)

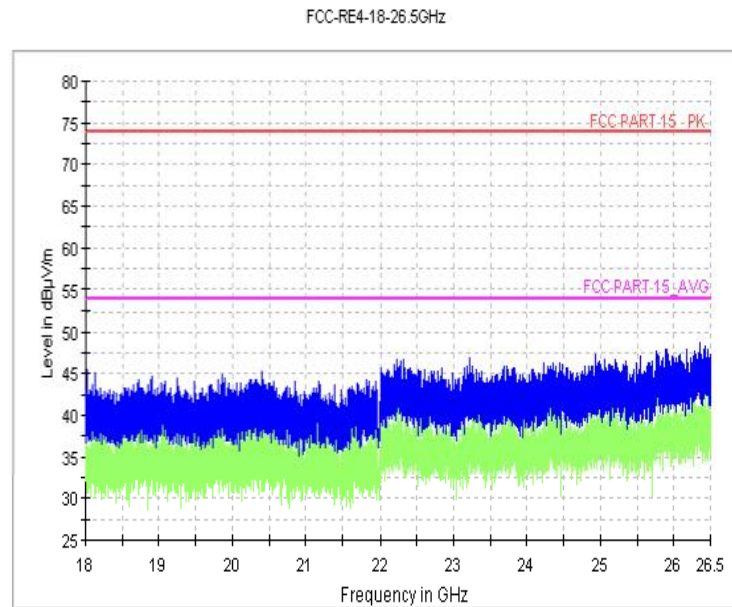


Fig.124 Radiated Spurious Emission (802.11g, Ch6, 18 GHz-26.5GHz)

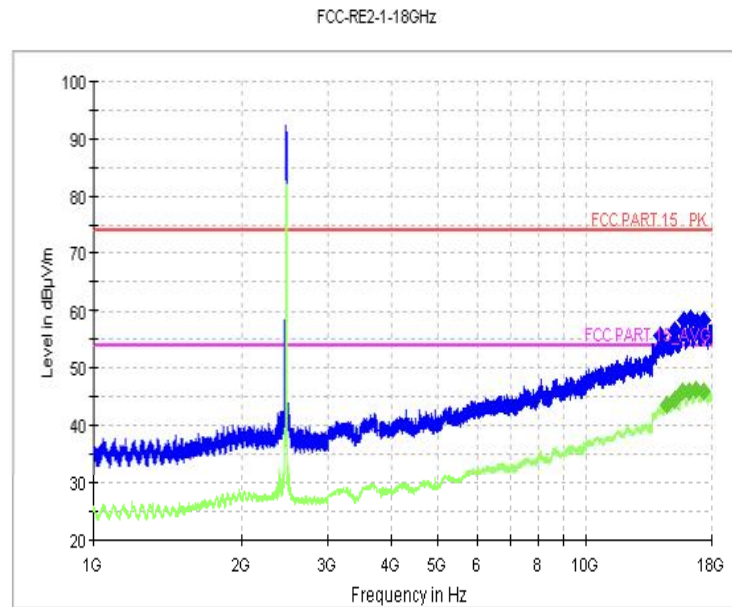


Fig.125 Radiated Spurious Emission (802.11g, Ch11, 1 GHz-18 GHz)

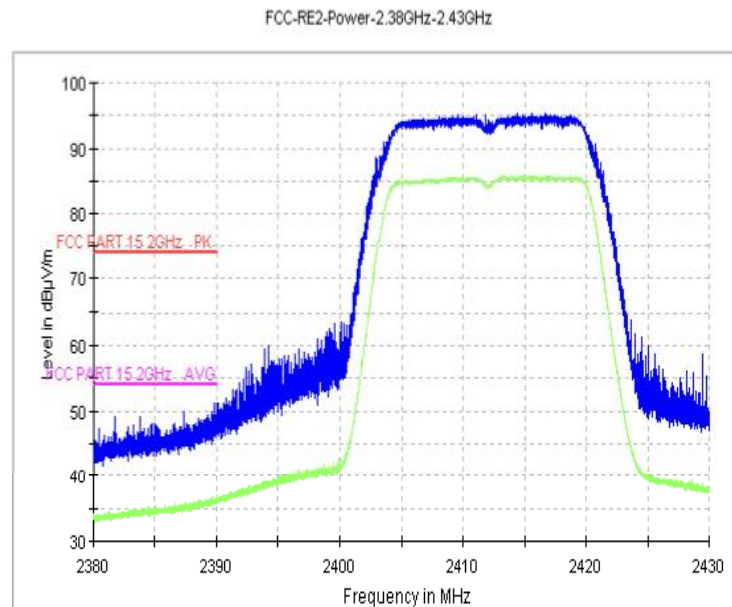


Fig.126 Radiated Emission Power (802.11g, Ch1, 2380GHz~2450GHz)

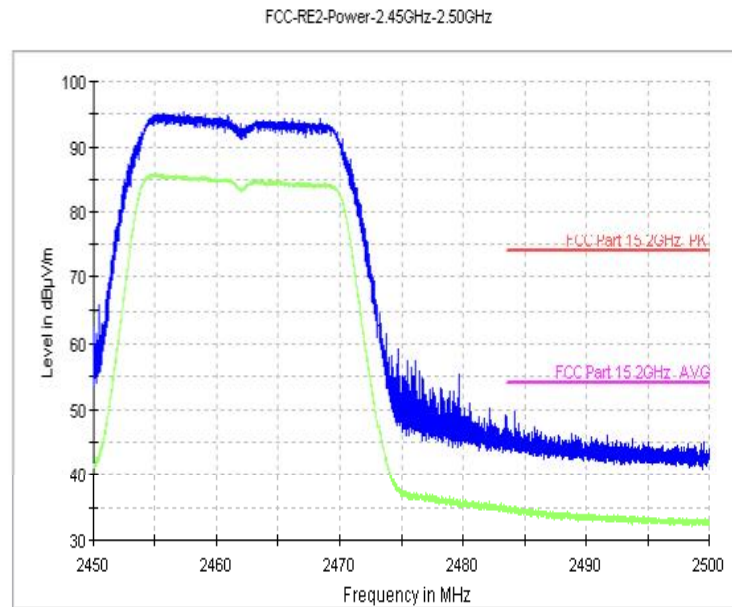


Fig.127 Radiated Emission Power (802.11g, Ch11, 2450GHz~2500GHz)

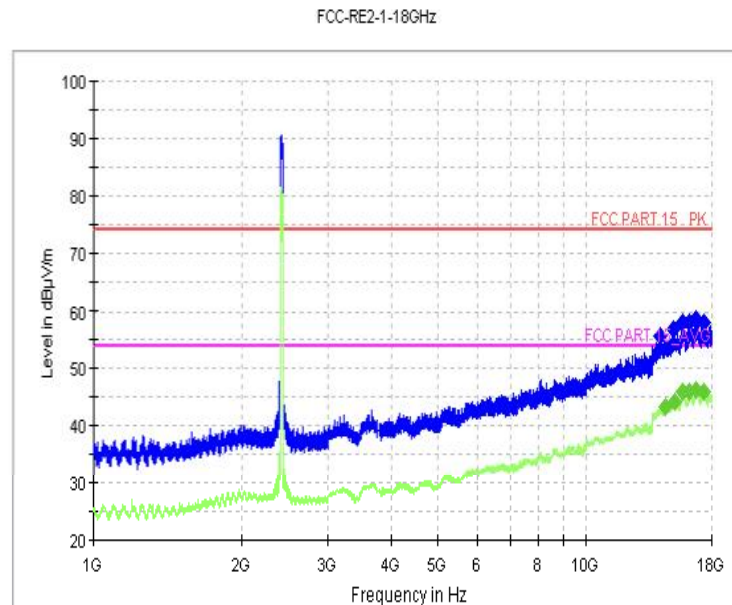


Fig.128 Radiated Spurious Emission (802.11n, Ch1, 1 GHz-18GHz)

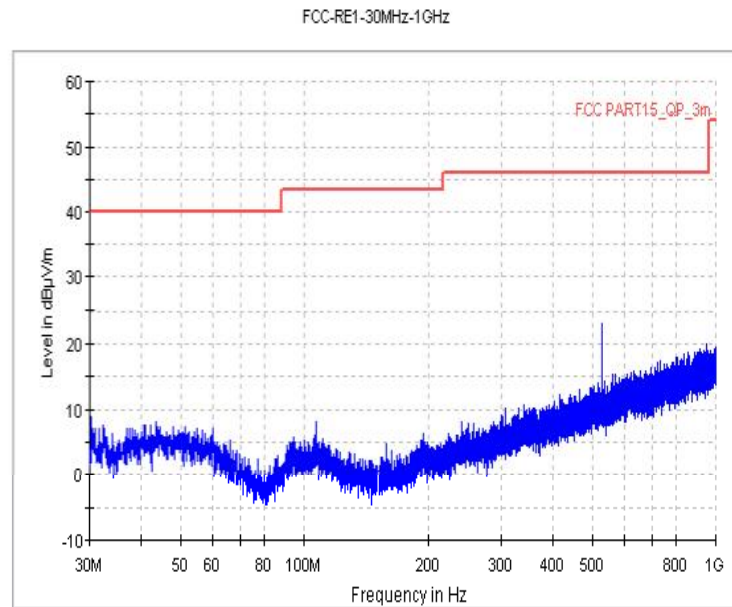


Fig.129 Radiated Spurious Emission (802.11n, Ch6, 30MHz-1 GHz)

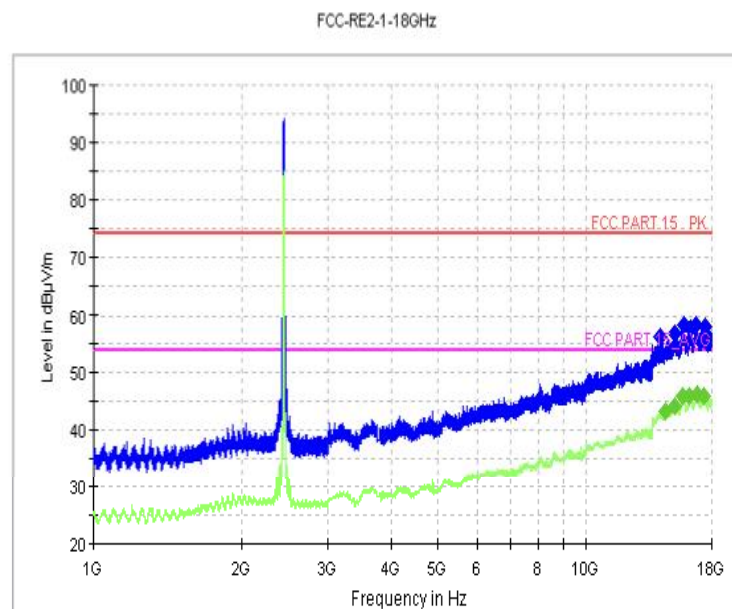


Fig.130 Radiated Spurious Emission (802.11n, Ch6, 1 GHz-18GHz)

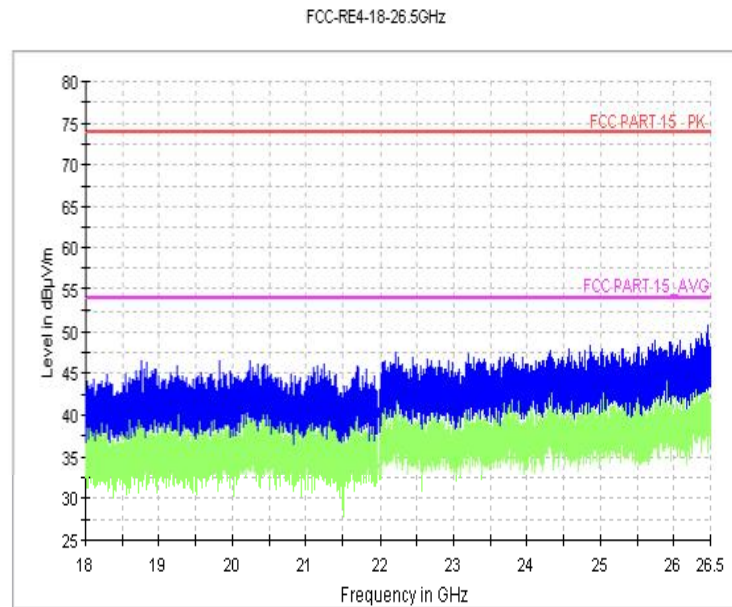


Fig.131 Radiated Spurious Emission (802.11n, Ch6, 18 GHz-26.5GHz)

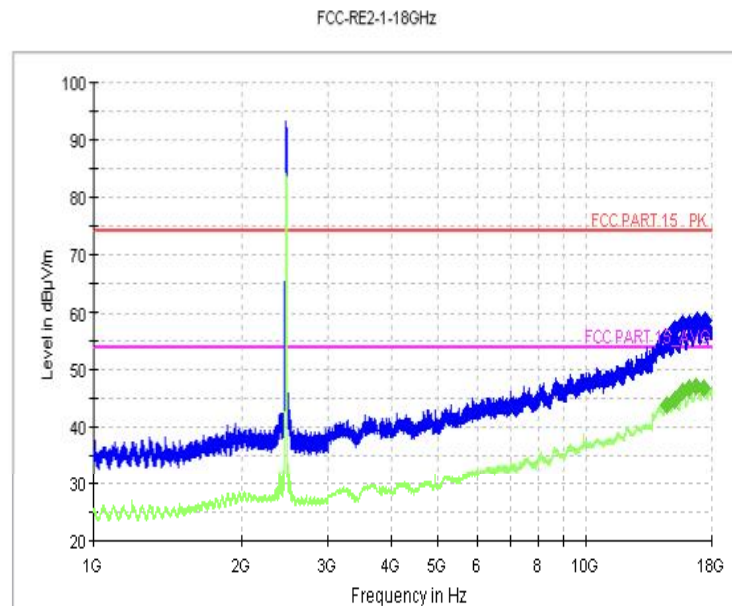


Fig.132 Radiated Spurious Emission (802.11n, Ch11, 1 GHz-18 GHz)

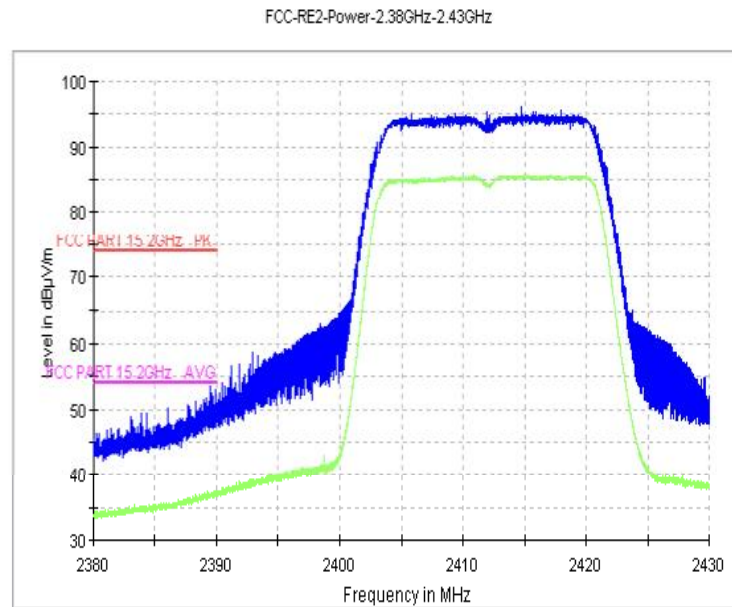


Fig.133 Radiated Emission Power (802.11n, Ch1, 2380GHz~2450GHz)

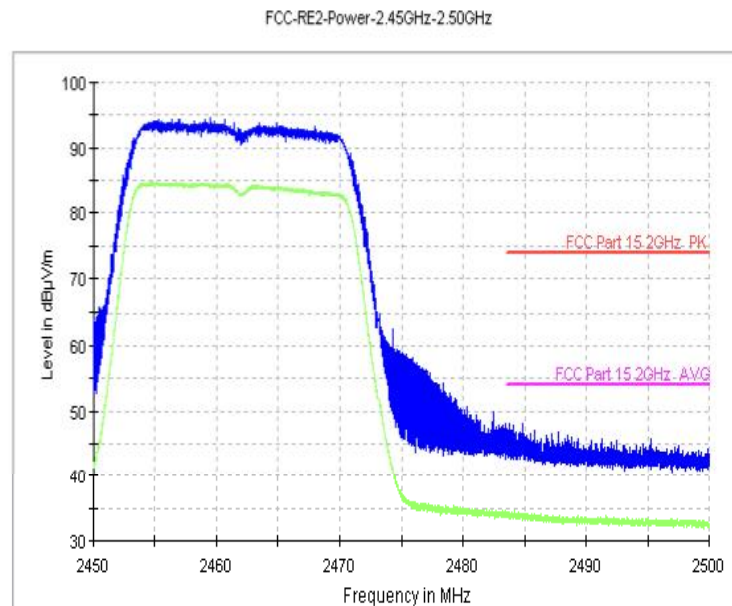


Fig.134 Radiated Emission Power (802.11n, Ch11, 2450GHz~2500GHz)

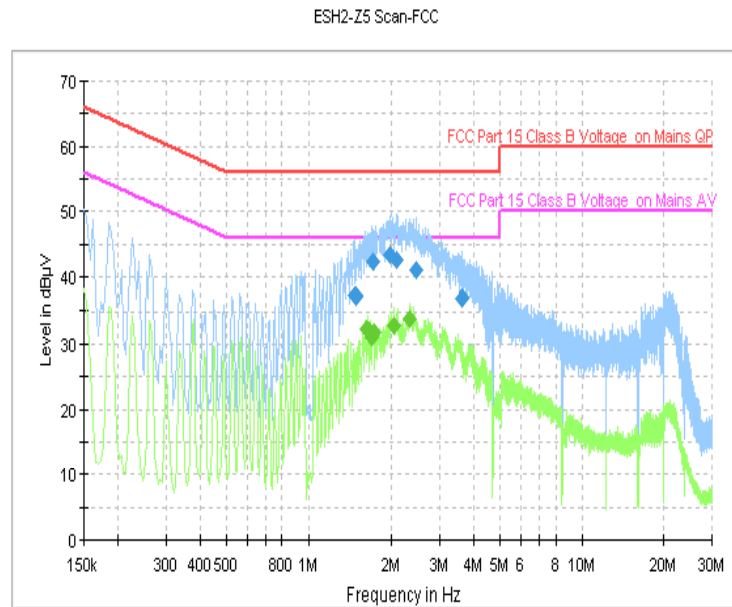


Fig.135 AC Powerline Conducted Emission (Traffic, AE1)

MEASUREMENT RESULT: " QuasiPeak "

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.478000	37.3	GND	N	10.1	18.7	56.0
1.718000	42.4	GND	L1	10.1	13.6	56.0
1.966000	43.3	GND	L1	10.1	12.7	56.0
2.078000	42.6	GND	N	10.1	13.4	56.0
2.458000	41.2	GND	N	10.2	14.8	56.0
3.646000	37.0	GND	L1	10.2	19.0	56.0

MEASUREMENT RESULT: " Average "

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.614000	32.2	GND	L1	10.1	13.8	46.0
1.658000	31.9	GND	L1	10.1	14.1	46.0
1.698000	31.0	GND	L1	10.1	15.0	46.0
1.730000	31.9	GND	L1	10.1	14.1	46.0
2.038000	32.8	GND	L1	10.1	13.2	46.0
2.330000	33.7	GND	L1	10.1	12.3	46.0

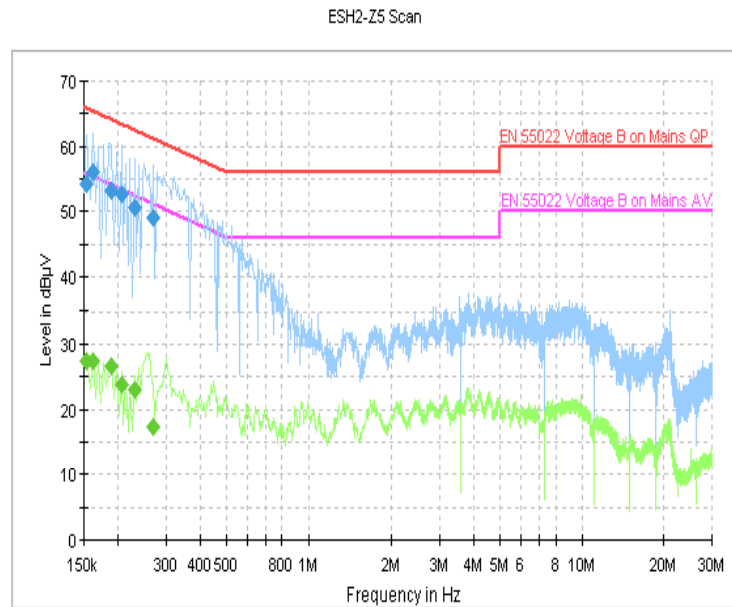


Fig.136 AC Powerline Conducted Emission (Traffic, AE2)

MEASUREMENT RESULT: " QuasiPeak "

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.154000	54.2	GND	L1	10.0	11.6	65.8
0.162000	56.1	GND	L1	10.0	9.3	65.4
0.190000	53.3	GND	L1	10.0	10.7	64.0
0.206000	52.7	GND	L1	10.0	10.6	63.4
0.230000	50.5	GND	L1	10.0	11.9	62.4
0.270000	49.1	GND	N	10.1	12.0	61.1

MEASUREMENT RESULT: " Average "

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.154000	27.5	GND	L1	10.0	28.3	55.8
0.162000	27.4	GND	L1	10.0	27.9	55.4
0.190000	26.6	GND	L1	10.0	27.4	54.0
0.206000	23.8	GND	L1	10.0	29.5	53.4
0.230000	22.9	GND	L1	10.0	29.5	52.4
0.270000	17.3	GND	N	10.1	33.8	51.1

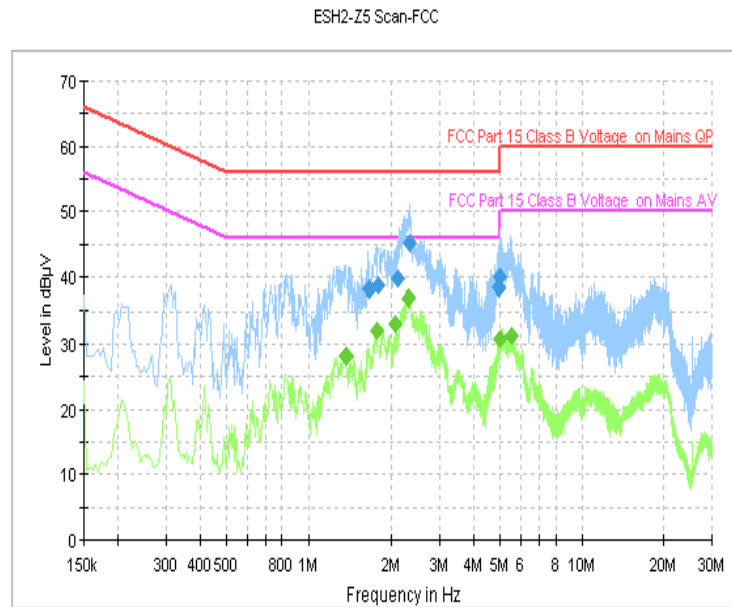


Fig.137 AC Powerline Conducted Emission (Traffic, AE3)

MEASUREMENT RESULT: " QuasiPeak "

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.662000	38.3	GND	L1	10.1	17.7	56.0
1.794000	38.9	GND	L1	10.1	17.1	56.0
2.102000	39.7	GND	L1	10.1	16.3	56.0
2.330000	45.2	GND	L1	10.1	10.8	56.0
4.922000	38.4	GND	L1	10.2	17.6	56.0
4.974000	40.1	GND	L1	10.2	15.9	56.0

MEASUREMENT RESULT: " Average "

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.366000	28.3	GND	L1	10.1	17.7	46.0
1.762000	32.1	GND	L1	10.1	13.9	46.0
2.074000	33.2	GND	L1	10.1	12.8	46.0
2.302000	36.9	GND	L1	10.1	9.1	46.0
4.974000	30.7	GND	L1	10.2	15.3	46.0
5.546000	31.2	GND	L1	10.2	18.8	50.0

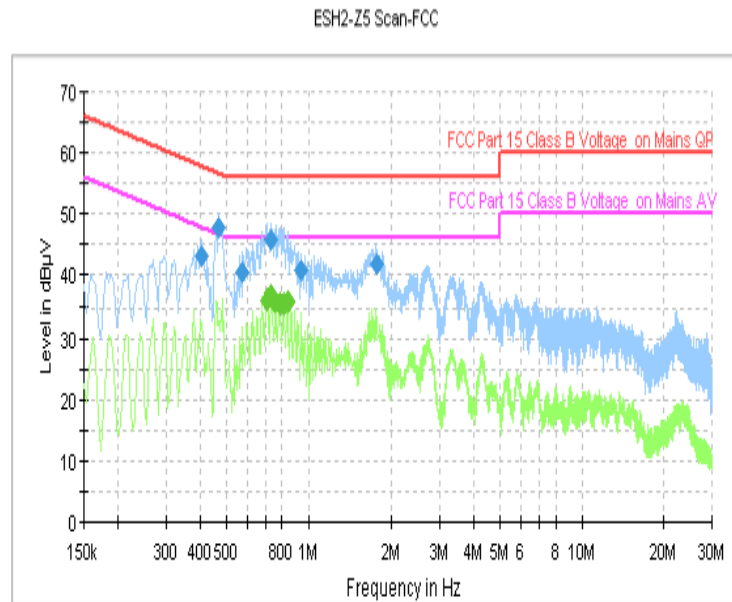


Fig.138 AC Powerline Conducted Emission (Idle, AE1)

MEASUREMENT RESULT: " QuasiPeak "

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.406000	43.2	GND	L1	10.0	14.5	57.7
0.470000	47.9	GND	L1	10.0	8.6	56.5
0.570000	40.4	GND	L1	10.1	15.6	56.0
0.730000	45.8	GND	L1	10.0	10.2	56.0
0.946000	40.9	GND	L1	10.1	15.1	56.0
1.762000	41.7	GND	L1	10.1	14.3	56.0

MEASUREMENT RESULT: " Average "

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.706000	36.1	GND	L1	10.0	9.9	46.0
0.730000	36.9	GND	L1	10.0	9.1	46.0
0.754000	35.9	GND	L1	10.1	10.1	46.0
0.786000	35.5	GND	L1	10.1	10.5	46.0
0.814000	35.4	GND	L1	10.1	10.6	46.0
0.838000	35.8	GND	L1	10.0	10.2	46.0

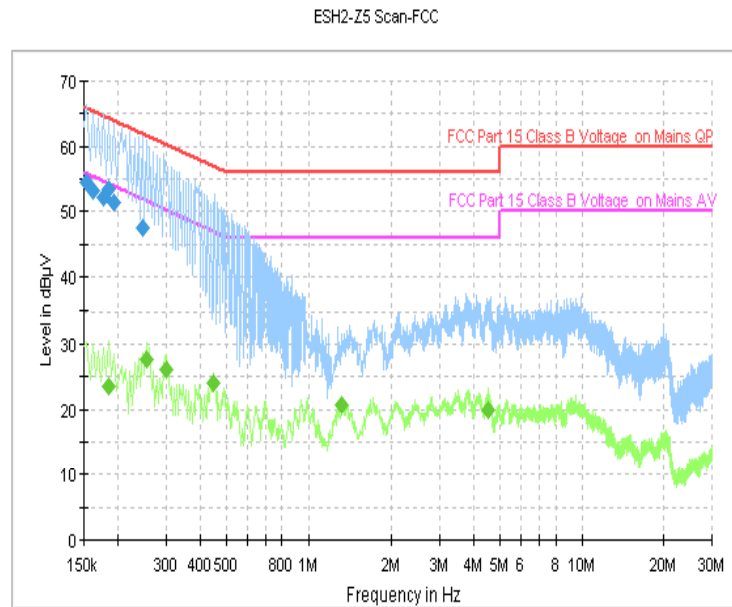


Fig.139 AC Powerline Conducted Emission (Idle, AE2)

MEASUREMENT RESULT: " QuasiPeak "

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.154000	54.5	GND	L1	10.0	11.3	65.8
0.162000	53.1	GND	L1	10.0	12.2	65.4
0.178000	52.1	GND	L1	10.0	12.5	64.6
0.186000	53.4	GND	L1	10.0	10.8	64.2
0.194000	51.3	GND	L1	10.0	12.6	63.9
0.246000	47.4	GND	L1	10.0	14.4	61.9

MEASUREMENT RESULT: " Average "

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.186000	23.6	GND	L1	10.0	30.6	54.2
0.254000	27.6	GND	L1	10.0	24.1	51.6
0.302000	26.1	GND	N	10.1	24.1	50.2
0.446000	23.9	GND	L1	10.0	23.0	46.9
1.330000	20.7	GND	N	10.1	25.3	46.0
4.514000	19.9	GND	L1	10.2	26.2	46.0

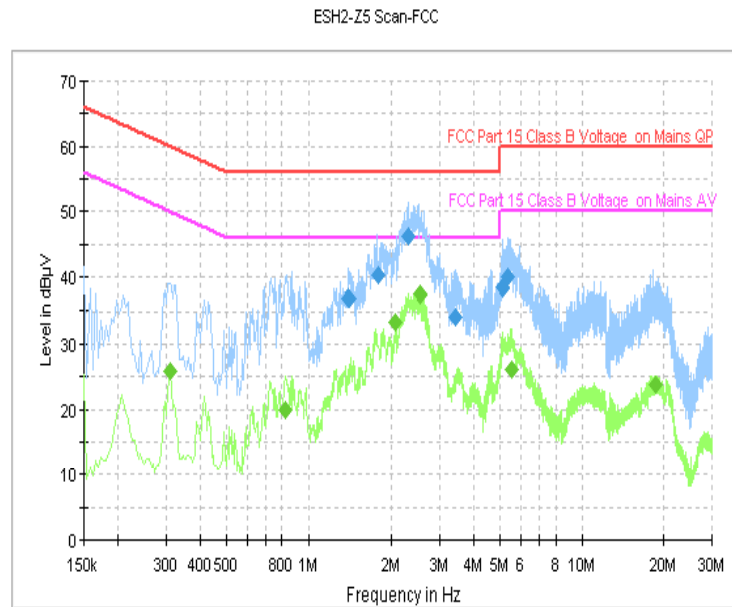


Fig.140 AC Powerline Conducted Emission (Idle, AE3)

MEASUREMENT RESULT: " QuasiPeak "

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.406000	36.9	GND	L1	10.1	19.1	56.0
1.782000	40.3	GND	L1	10.1	15.7	56.0
2.302000	46.2	GND	L1	10.1	9.8	56.0
3.422000	34.1	GND	L1	10.2	21.9	56.0
5.114000	38.6	GND	L1	10.2	21.4	60.0
5.350000	40.1	GND	L1	10.2	19.9	60.0

MEASUREMENT RESULT: " Average "

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.310000	25.8	GND	L1	10.0	24.1	50.0
0.826000	20.0	GND	L1	10.0	26.0	46.0
2.074000	33.4	GND	L1	10.1	12.6	46.0
2.538000	37.5	GND	L1	10.2	8.5	46.0
5.542000	26.1	GND	L1	10.2	23.9	50.0
18.706000	23.8	GND	L1	10.5	26.2	50.0

ANNEX C: Persons involved in this testing

Test Name	Tester
Maximum Peak Output Power	Xu Ye, Tang Weisheng
Peak Power Spectral Density	Xu Ye, Tang Weisheng
Occupied 6dB Bandwidth	Xu Ye, Tang Weisheng
Band Edges Compliance	Xu Ye, Tang Weisheng
Transmitter Spurious Emission - Conducted	Xu Ye, Tang Weisheng
Transmitter Spurious Emission - Radiated	Xu Ye, Tang Weisheng
AC Powerline Conducted Emission	Xu Ye, Tang Weisheng

*****END OF REPORT*****