



**FCC PART 15C
TEST REPORT
No. I15Z41437-SRD01**

for

ZTE CORPORATION

LTE/WCDMA/GSM (GPRS) Multi-Mode Digital Mobile Phone

Model Name: Blade S6

With

Hardware Version: wrbA

Software Version: Blade_S_EIYV1.0.0B01

FCC ID: SRQ-BLADES6

Issued Date: Jul 15th, 2015



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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CONTENTS

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	9
3.3. INTERNAL IDENTIFICATION OF AE	9
4. REFERENCE DOCUMENTS.....	10
4.1. DOCUMENTS SUPPLIED BY APPLICANT	10
4.2. REFERENCE DOCUMENTS FOR TESTING	10
5. TEST RESULTS.....	11
5.1. SUMMARY OF TEST RESULTS.....	11
5.2. STATEMENTS.....	11
5.3. TERMS USED IN THE RESULT TABLE	11
5.4. LABORATORY ENVIRONMENT	12
6. TEST FACILITIES UTILIZED	12
ANNEX A: EUT PHOTOGRAPH	13
ANNEX B: MEASUREMENT RESULTS FOR RECEIVER.....	14
B.0 ANTENNA REQUIREMENT	14
B.1 MAXIMUM AVERAGE OUTPUT POWER	15
B.2 PEAK POWER SPECTRAL DENSITY	16
B.3 OCCUPIED 6dB BANDWIDTH	16
B.4 BAND EDGES COMPLIANCE	17
B.5 TRANSMITTER SPURIOUS EMISSION	17
B.5.1 TRANSMITTER SPURIOUS EMISSION - CONDUCTED	17
ANNEX C: TEST LAYOUTS.....	19
FIG.1 MAXIMUM AVERAGE OUTPUT POWER (802.11B, CH 1,1MBPS)	19
FIG.2 MAXIMUM AVERAGE OUTPUT POWER (802.11B, CH 6,1MBPS)	19
FIG.3 MAXIMUM AVERAGE OUTPUT POWER (802.11B, CH 11,1MBPS).....	20
FIG.4 MAXIMUM AVERAGE OUTPUT POWER (802.11B, CH 1,2MBPS)	20
FIG.5 MAXIMUM AVERAGE OUTPUT POWER (802.11B, CH 6,2MBPS)	21



FIG.6 MAXIMUM AVERAGE OUTPUT POWER (802.11B, CH 11,2MBPS)..... 21

FIG.7 MAXIMUM AVERAGE OUTPUT POWER (802.11B, CH 1,5.5MBPS) 22

FIG.8 MAXIMUM AVERAGE OUTPUT POWER (802.11B, CH 6,5.5MBPS) 22

FIG.9 MAXIMUM AVERAGE OUTPUT POWER (802.11B, CH 11,5.5MBPS)..... 23

FIG.10 MAXIMUM AVERAGE OUTPUT POWER (802.11B, CH 1,11MBPS)..... 23

FIG.11 MAXIMUM AVERAGE OUTPUT POWER (802.11B, CH 6,11MBPS)..... 24

FIG.12 MAXIMUM AVERAGE OUTPUT POWER (802.11B, CH 11,11MBPS)..... 24

FIG.13 MAXIMUM AVERAGE OUTPUT POWER (802.11G, CH 1,6MBPS) 25

FIG.14 MAXIMUM AVERAGE OUTPUT POWER (802.11G, CH 6,6MBPS) 25

FIG.15 MAXIMUM AVERAGE OUTPUT POWER (802.11G, CH 11,6MBPS)..... 26

FIG.16 MAXIMUM AVERAGE OUTPUT POWER (802.11G, CH 1,9MBPS) 26

FIG.17 MAXIMUM AVERAGE OUTPUT POWER (802.11G, CH 6,9MBPS) 27

FIG.18 MAXIMUM AVERAGE OUTPUT POWER (802.11G, CH 11,9MBPS)..... 27

FIG.19 MAXIMUM AVERAGE OUTPUT POWER (802.11G, CH 1,12MBPS) 28

FIG.20 MAXIMUM AVERAGE OUTPUT POWER (802.11G, CH 6,12MBPS) 28

FIG.21 MAXIMUM AVERAGE OUTPUT POWER (802.11G, CH 11,12MBPS)..... 29

FIG.22 MAXIMUM AVERAGE OUTPUT POWER (802.11G, CH 1,18MBPS) 29

FIG.23 MAXIMUM AVERAGE OUTPUT POWER (802.11G, CH 6,18MBPS) 30

FIG.24 MAXIMUM AVERAGE OUTPUT POWER (802.11G, CH 11,18MBPS)..... 30

FIG.25 MAXIMUM AVERAGE OUTPUT POWER (802.11G, CH 1,24MBPS) 31

FIG.26 MAXIMUM AVERAGE OUTPUT POWER (802.11G, CH 6,24MBPS) 31

FIG.27 MAXIMUM AVERAGE OUTPUT POWER (802.11G, CH 11,24MBPS)..... 32

FIG.28 MAXIMUM AVERAGE OUTPUT POWER (802.11G, CH 1,36MBPS) 32

FIG.29 MAXIMUM AVERAGE OUTPUT POWER (802.11G, CH 6,36MBPS) 33

FIG.30 MAXIMUM AVERAGE OUTPUT POWER (802.11G, CH 11,36MBPS)..... 33

FIG.31 MAXIMUM AVERAGE OUTPUT POWER (802.11G, CH 1,48MBPS) 34

FIG.32 MAXIMUM AVERAGE OUTPUT POWER (802.11G, CH 6,48MBPS) 34

FIG.33 MAXIMUM AVERAGE OUTPUT POWER (802.11G, CH 11,48MBPS)..... 35

FIG.34 MAXIMUM AVERAGE OUTPUT POWER (802.11G, CH 1,54MBPS) 35

FIG.35 MAXIMUM AVERAGE OUTPUT POWER (802.11G, CH 6,54MBPS) 36

FIG.36 MAXIMUM AVERAGE OUTPUT POWER (802.11G, CH 11,54MBPS)..... 36

FIG.37 MAXIMUM AVERAGE OUTPUT POWER (802.11N-20MHZ, CH 1,MCS0) 37

FIG.38 MAXIMUM AVERAGE OUTPUT POWER (802.11N-20MHZ, CH 6,MCS0) 37

FIG.39 MAXIMUM AVERAGE OUTPUT POWER (802.11N-20MHZ, CH 11,MCS0)..... 38

FIG.40 MAXIMUM AVERAGE OUTPUT POWER (802.11N-20MHZ, CH 1,MCS1) 38

FIG.41 MAXIMUM AVERAGE OUTPUT POWER (802.11N-20MHZ, CH 6,MCS1) 39

FIG.42 MAXIMUM AVERAGE OUTPUT POWER (802.11N-20MHZ, CH 11,MCS1)..... 39

FIG.43 MAXIMUM AVERAGE OUTPUT POWER (802.11N-20MHZ, CH 1,MCS2) 40

FIG.44 MAXIMUM AVERAGE OUTPUT POWER (802.11N-20MHZ, CH 6,MCS2)) 40

FIG.45 MAXIMUM AVERAGE OUTPUT POWER (802.11N-20MHZ, CH 11,MCS2)..... 41

FIG.46 MAXIMUM AVERAGE OUTPUT POWER (802.11N-20MHZ, CH 1,MCS3) 41

FIG.47 MAXIMUM AVERAGE OUTPUT POWER (802.11N-20MHZ, CH 6,MCS3) 42

FIG.48 MAXIMUM AVERAGE OUTPUT POWER (802.11N-20MHZ, CH 11,MCS3)..... 42

FIG.49 MAXIMUM AVERAGE OUTPUT POWER (802.11N-20MHZ, CH 1,MCS4) 43

FIG.50	MAXIMUM AVERAGE OUTPUT POWER (802.11N-20MHZ, CH 6,MCS4)	43
FIG.51	MAXIMUM AVERAGE OUTPUT POWER (802.11N-20MHZ, CH 11,MCS4)	44
FIG.52	MAXIMUM AVERAGE OUTPUT POWER (802.11N-20MHZ, CH 1,MCS5)	44
FIG.53	MAXIMUM AVERAGE OUTPUT POWER (802.11N-20MHZ, CH 6,MCS5)	45
FIG.54	MAXIMUM AVERAGE OUTPUT POWER (802.11N-20MHZ, CH 11,MCS5)	45
FIG.55	MAXIMUM AVERAGE OUTPUT POWER (802.11N-20MHZ, CH 1,MCS6)	46
FIG.56	MAXIMUM AVERAGE OUTPUT POWER (802.11N-20MHZ, CH 6,MCS6)	46
FIG.57	MAXIMUM AVERAGE OUTPUT POWER (802.11N-20MHZ, CH 11,MCS6)	47
FIG.58	MAXIMUM AVERAGE OUTPUT POWER (802.11N-20MHZ, CH 1,MCS7)	47
FIG.59	MAXIMUM AVERAGE OUTPUT POWER (802.11N-20MHZ, CH 6,MCS7)	48
FIG.60	MAXIMUM AVERAGE OUTPUT POWER (802.11N-20MHZ, CH 11,MCS7)	48
FIG.61	POWER SPECTRAL DENSITY (802.11B, CH 1)	49
FIG.62	POWER SPECTRAL DENSITY (802.11B, CH 6)	49
FIG.63	POWER SPECTRAL DENSITY (802.11B, CH 11)	50
FIG.64	POWER SPECTRAL DENSITY (802.11G, CH 1)	50
FIG.65	POWER SPECTRAL DENSITY (802.11G, CH 6)	51
FIG.66	POWER SPECTRAL DENSITY (802.11G, CH 11)	51
FIG.67	POWER SPECTRAL DENSITY (802.11N-20MHZ, CH 1)	52
FIG.68	POWER SPECTRAL DENSITY (802.11N-20MHZ, CH 6)	52
FIG.69	POWER SPECTRAL DENSITY (802.11N-20MHZ, CH 11)	53
FIG.70	OCCUPIED 6dB BANDWIDTH (802.11B, CH 1)	53
FIG.71	OCCUPIED 6dB BANDWIDTH (802.11B, CH 6)	54
FIG.72	OCCUPIED 6dB BANDWIDTH (802.11B, CH 11)	54
FIG.73	OCCUPIED 6dB BANDWIDTH (802.11G, CH 1)	55
FIG.74	OCCUPIED 6dB BANDWIDTH (802.11G, CH 6)	55
FIG.75	OCCUPIED 6dB BANDWIDTH (802.11G, CH 11)	56
FIG.76	OCCUPIED 6dB BANDWIDTH (802.11 N-20MHZ, CH 1)	56
FIG.77	OCCUPIED 6dB BANDWIDTH (802.11 N-20MHZ, CH 6)	57
FIG.78	OCCUPIED 6dB BANDWIDTH (802.11 N-20MHZ, CH 11)	57
FIG.79	BAND EDGES (802.11B, CH 1)	58
FIG.80	BAND EDGES (802.11B, CH 11)	58
FIG.81	BAND EDGES (802.11G, CH 1)	59
FIG.82	BAND EDGES (802.11G, CH 11)	59
FIG.83	BAND EDGES (802.11 N-20MHZ, CH 1)	60
FIG.84	BAND EDGES (802.11 N-20MHZ, CH 11)	60
FIG.85	CONDUCTED SPURIOUS EMISSION (802.11B, CH1, CENTER FREQUENCY)	61
FIG.86	CONDUCTED SPURIOUS EMISSION (802.11B, CH1, 30 MHZ-3 GHZ)	61
FIG.87	CONDUCTED SPURIOUS EMISSION (802.11B, CH1, 3 GHZ-18 GHZ)	62
FIG.88	CONDUCTED SPURIOUS EMISSION (802.11B, CH6, CENTER FREQUENCY)	62
FIG.89	CONDUCTED SPURIOUS EMISSION (802.11B, CH6, 30 MHZ-3 GHZ)	63
FIG.90	CONDUCTED SPURIOUS EMISSION (802.11B, CH6, 3 GHZ-18 GHZ)	63
FIG.91	CONDUCTED SPURIOUS EMISSION (802.11B, CH11, CENTER FREQUENCY)	64
FIG.92	CONDUCTED SPURIOUS EMISSION (802.11B, CH11, 30 MHZ-3 GHZ)	64
FIG.93	CONDUCTED SPURIOUS EMISSION (802.11B, CH11, 3 GHZ-18 GHZ)	65



FIG.94	CONDUCTED SPURIOUS EMISSION (802.11G, CH1, CENTER FREQUENCY)	65
FIG.95	CONDUCTED SPURIOUS EMISSION (802.11G, CH1, 30 MHZ-3 GHZ).....	66
FIG.96	CONDUCTED SPURIOUS EMISSION (802.11G, CH1, 3 GHZ-18 GHZ).....	66
FIG.97	CONDUCTED SPURIOUS EMISSION (802.11G, CH6, CENTER FREQUENCY)	67
FIG.98	CONDUCTED SPURIOUS EMISSION (802.11G, CH6, 30 MHZ-3 GHZ).....	67
FIG.99	CONDUCTED SPURIOUS EMISSION (802.11G, CH6, 3 GHZ-18 GHZ)	68
FIG.100	CONDUCTED SPURIOUS EMISSION (802.11G, CH11, CENTER FREQUENCY).....	68
FIG.101	CONDUCTED SPURIOUS EMISSION (802.11G, CH11, 30 MHZ-3 GHZ)	69
FIG.102	CONDUCTED SPURIOUS EMISSION (802.11G, CH11, 3 GHZ-18 GHZ).....	69
FIG.103	CONDUCTED SPURIOUS EMISSION (802.11N-20M, CH1, CENTER FREQUENCY).....	70
FIG.104	CONDUCTED SPURIOUS EMISSION (802.11N-20M, CH1, 30 MHZ-3 GHZ).....	70
FIG.105	CONDUCTED SPURIOUS EMISSION (802.11N-20M, CH1, 3 GHZ-18 GHZ).....	71
FIG.106	CONDUCTED SPURIOUS EMISSION (802.11N-20M, CH6, CENTER FREQUENCY).....	71
FIG.107	CONDUCTED SPURIOUS EMISSION (802.11N-20M, CH6, 30 MHZ-3 GHZ).....	72
FIG.108	CONDUCTED SPURIOUS EMISSION (802.11N-20M, CH6, 3 GHZ-18 GHZ).....	72
FIG.109	CONDUCTED SPURIOUS EMISSION (802.11N-20M, CH11, CENTER FREQUENCY)	73
FIG.110	CONDUCTED SPURIOUS EMISSION (802.11N-20M, CH11, 30 MHZ-3 GHZ).....	73
FIG.111	CONDUCTED SPURIOUS EMISSION (802.11N-20M, CH11, 3 GHZ-18 GHZ)	74
FIG.112	CONDUCTED SPURIOUS EMISSION (ALL CHANNELS, 18 GHZ-26 GHZ)	74
ANNEX D: PERSONS INVOLVED IN THIS TESTING		75
ANNEX E: ACCREDITATION CERTIFICATE		76

1. Test Laboratory

1.1. Testing Location

Location 1:CTTL(huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing,
P. R. China100191

Location 2:CTTL(Shouxiang)

Address: No. 51 Shouxiang Science Building, Xueyuan Road,
Haidian District, Beijing, P. R. China100191

1.2. Testing Environment

Normal Temperature: 15-35°C
Extreme Temperature: -20/+55°C
Relative Humidity: 20-75%

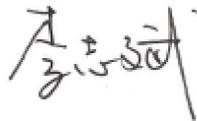
1.3. Project data

Testing Start Date: 2015-06-01
Testing End Date: 2015-07-13

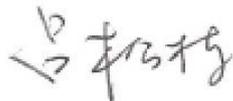
1.4. Signature



Xu Zhongfei
(Prepared this test report)



Li Zhibin
(Reviewed this test report)



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(Approved this test report)



2. Client Information

2.1. Applicant Information

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2.2. Manufacturer Information

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Country: China
Telephone: +86 18616587757
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3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	LTE/WCDMA/GSM(GPRS) Multi-Mode Digital Mobile Phone
Model Name	Blade S6
Market Name	ZTE
RF Protocol	IEEE 802.11b/g/n20
Operating Frequency	2412MHz~2462MHz
FCC ID	SRQ-BLADES6

*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	/	wrbA	Blade_S_EIYV1.0.0B01

*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	/	/

*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

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 metersx17 metersx10 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)	< ±4dB, 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 date	Calibration Due date
1	Vector Signal Analyzer	FSQ40	200089	Rohde & Schwarz	2015-07-08	2016-07-07
2	Shielding Room	S81	/	ETS-Lindgren	/	/

ANNEX A: EUT photograph



Picture A-1: Mobile Phone



Picture A-2: Mobile Phone



ANNEX B: MEASUREMENT RESULTS FOR RECEIVER

B.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 1.23 dBi.

The RF transmitter uses an integrate antenna without connector.

B.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	14.05	Fig.2	13.74	Fig.3	13.73
	2	Fig.4	13.78	Fig.5	13.45	Fig.6	13.47
	5.5	Fig.7	12.95	Fig.8	12.54	Fig.9	12.46
	11	Fig.10	11.65	Fig.11	11.41	Fig.12	11.37
802.11g	6	Fig.13	14.72	Fig.14	14.51	Fig.15	14.42
	9	Fig.16	14.73	Fig.17	14.44	Fig.18	14.31
	12	Fig.19	14.75	Fig.20	14.46	Fig.21	14.37
	18	Fig.22	14.61	Fig.23	14.52	Fig.24	14.44
	24	Fig.25	14.78	Fig.26	14.60	Fig.27	14.60
	36	Fig.28	14.80	Fig.29	14.58	Fig.30	14.46
	48	Fig.31	14.65	Fig.32	14.47	Fig.33	14.48
	54	Fig.34	14.56	Fig.35	14.42	Fig.36	14.41

802.11n mode

Mode	Data Rate (MCS Index)	Test Result (dBm)					
		2412MHz (Ch1)		2437MHz (Ch6)		2462 MHz (Ch11)	
802.11n (20MHz)	MCS0	Fig.37	14.66	Fig.38	14.60	Fig.39	14.55
	MCS1	Fig.40	14.71	Fig.41	14.65	Fig.42	14.61
	MCS2	Fig.43	14.71	Fig.44	14.57	Fig.45	14.62
	MCS3	Fig.46	14.66	Fig.47	14.70	Fig.48	14.61
	MCS4	Fig.49	14.67	Fig.50	14.67	Fig.51	14.71
	MCS5	Fig.52	14.71	Fig.53	14.69	Fig.54	14.50
	MCS6	Fig.55	14.55	Fig.56	14.66	Fig.57	14.48
	MCS7	Fig.58	14.50	Fig.59	14.57	Fig.60	14.40

See ANNEX C for test graphs.

Conclusion: PASS

B.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	-0.95	P
	6	Fig.62	-0.24	P
	11	Fig.63	-1.33	P
802.11g	1	Fig.64	-3.30	P
	6	Fig.65	-3.56	P
	11	Fig.66	-3.58	P

802.11n mode

Mode	Channel	Peak Power Spectral Density(dBm)		Conclusion
802.11n (20MHz)	1	Fig.67	-4.03	P
	6	Fig.68	-2.40	P
	11	Fig.69	-3.82	P

See ANNEX C for test graphs.

Conclusion: PASS

B.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	8379	P
	6	Fig.71	8640	P
	11	Fig.72	8336	P
802.11g	1	Fig.73	16454	P
	6	Fig.74	16498	P
	11	Fig.75	16064	P

802.11n mode

Mode	Channel	Test Results (kHz)		conclusion
802.11n (20MHz)	1	Fig.76	17323	P
	6	Fig.77	17323	P
	11	Fig.78	17627	P

See ANNEX C for test graphs.

Conclusion: PASS

B.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

B.5 Transmitter Spurious Emission

B.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

802.11b	6	3GHz-18GHz	Fig.87	P
		2.437 GHz	Fig.88	P
		30 MHz-3 GHz	Fig.89	P
	11	3GHz-18GHz	Fig.90	P
		2.462 GHz	Fig.91	P
		30 MHz-3 GHz	Fig.92	P
802.11g	1	3GHz-18GHz	Fig.93	P
		2.412 GHz	Fig.94	P
		30 MHz-3 GHz	Fig.95	P
	6	3GHz-18GHz	Fig.96	P
		2.437 GHz	Fig.97	P
		30 MHz-3 GHz	Fig.98	P
	11	3GHz-18GHz	Fig.99	P
		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

ANNEX C: TEST LAYOUTS

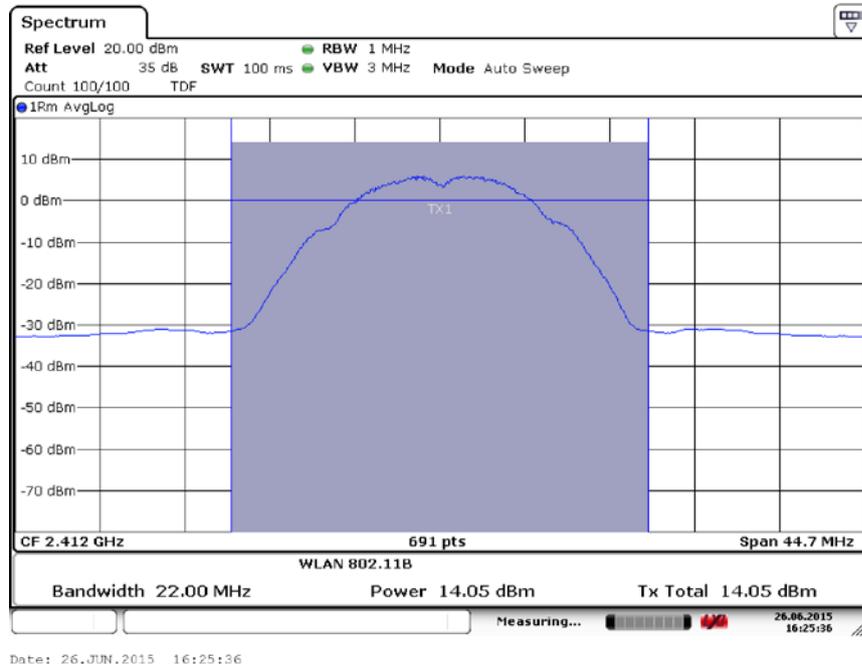


Fig.1 Maximum Average Output Power (802.11b, Ch 1,1Mbps)

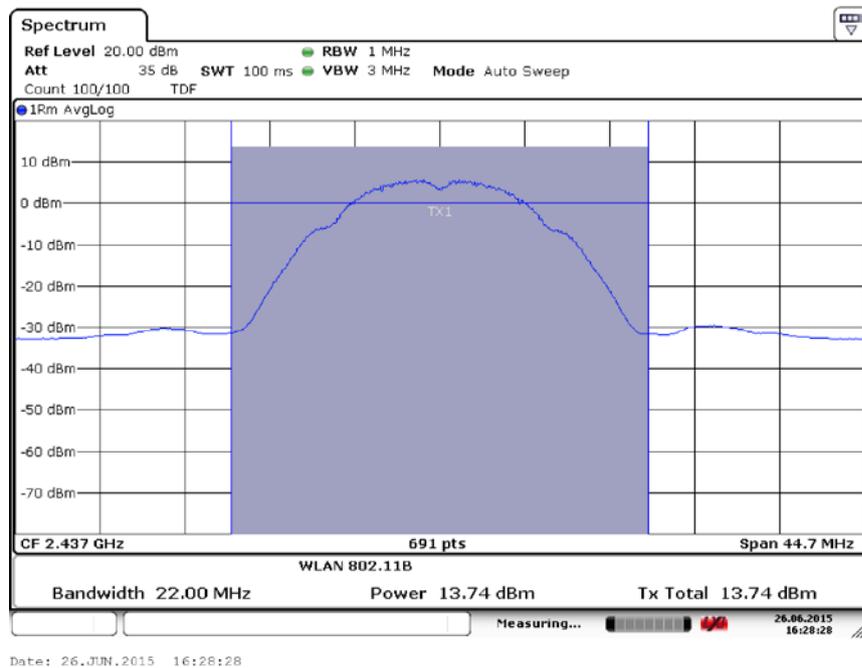


Fig.2 Maximum Average Output Power (802.11b, Ch 6,1Mbps)

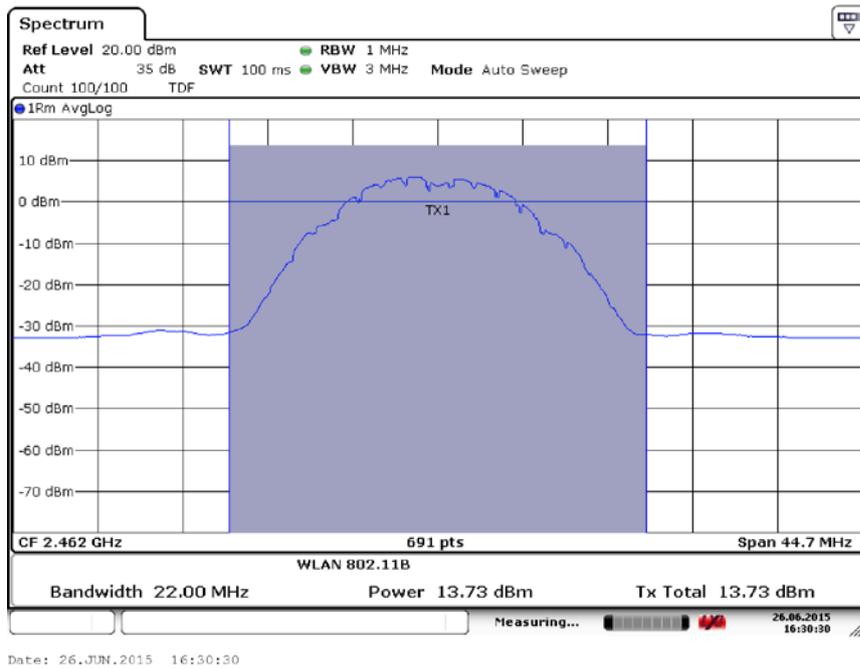


Fig.3 Maximum Average Output Power (802.11b, Ch 11,1Mbps)

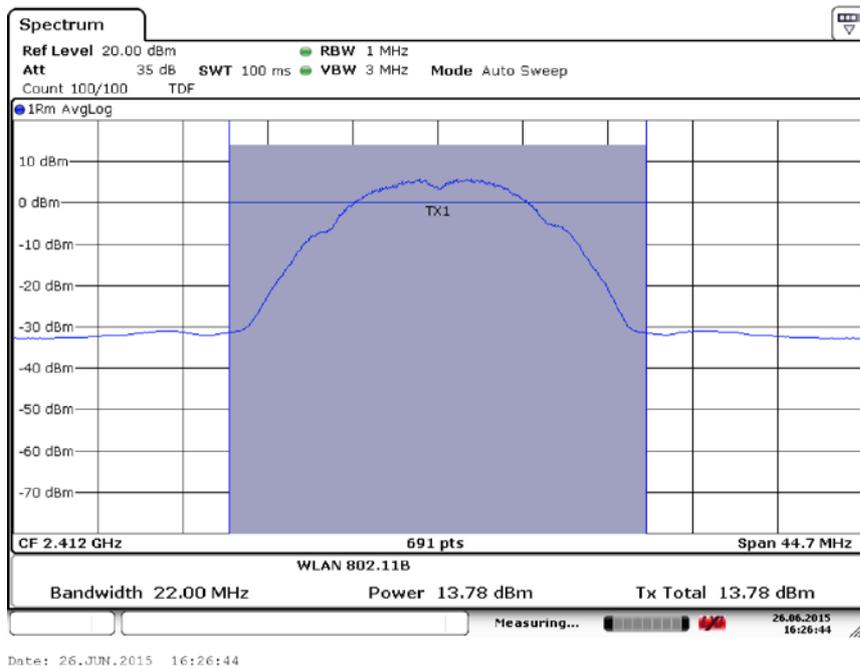


Fig.4 Maximum Average Output Power (802.11b, Ch 1,2Mbps)

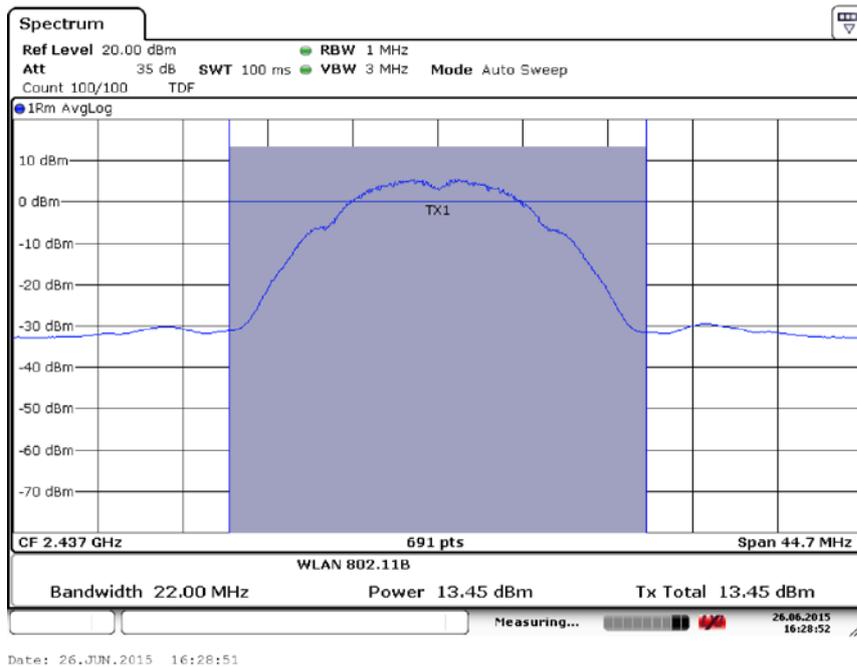


Fig.5 Maximum Average Output Power (802.11b, Ch 6,2Mbps)

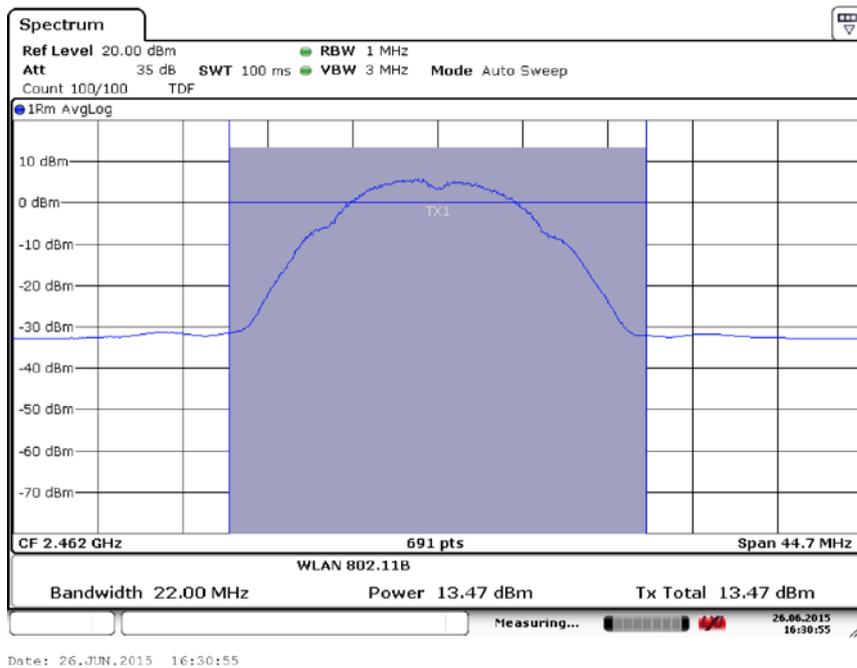


Fig.6 Maximum Average Output Power (802.11b, Ch 11,2Mbps)

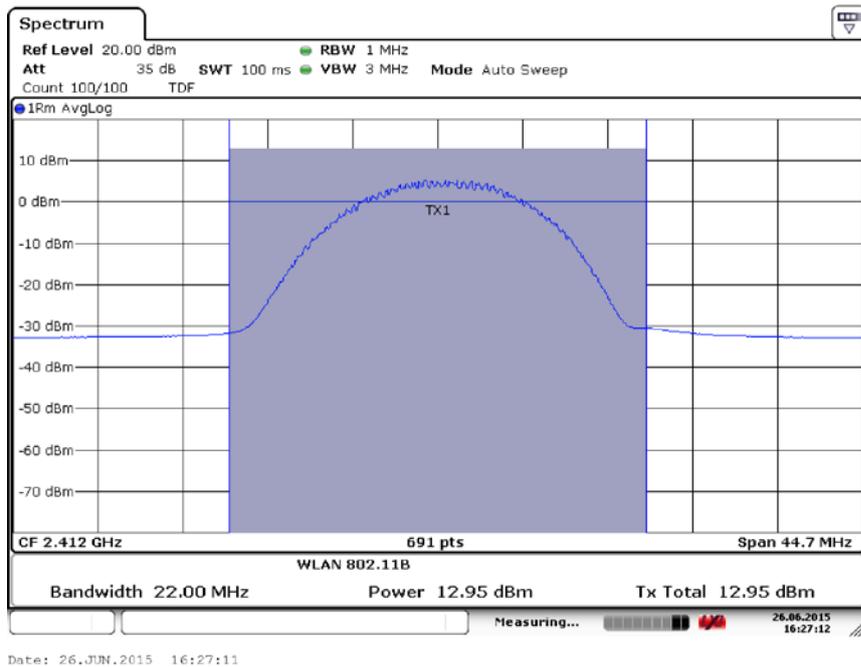


Fig.7 Maximum Average Output Power (802.11b, Ch 1,5Mbps)

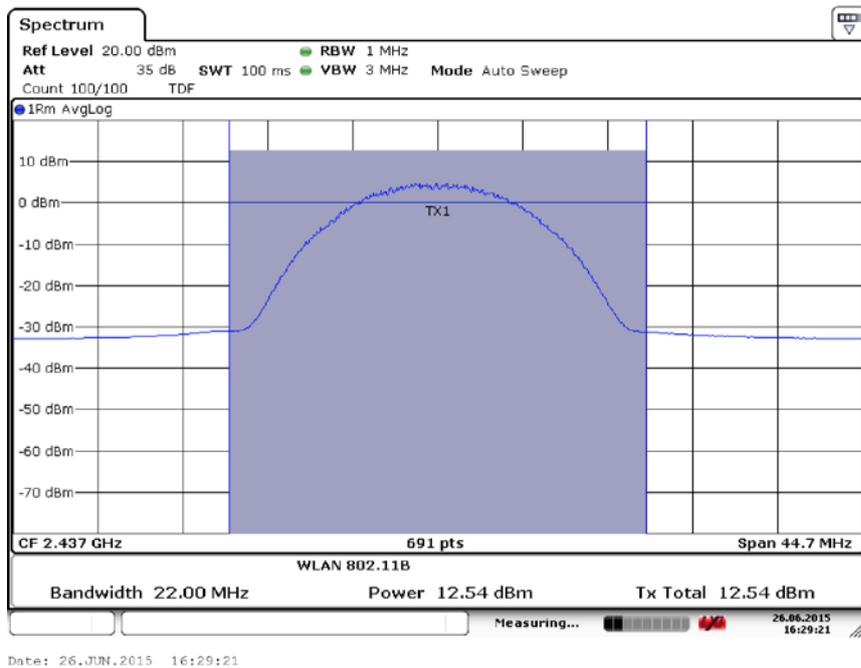


Fig.8 Maximum Average Output Power (802.11b, Ch 6,5Mbps)

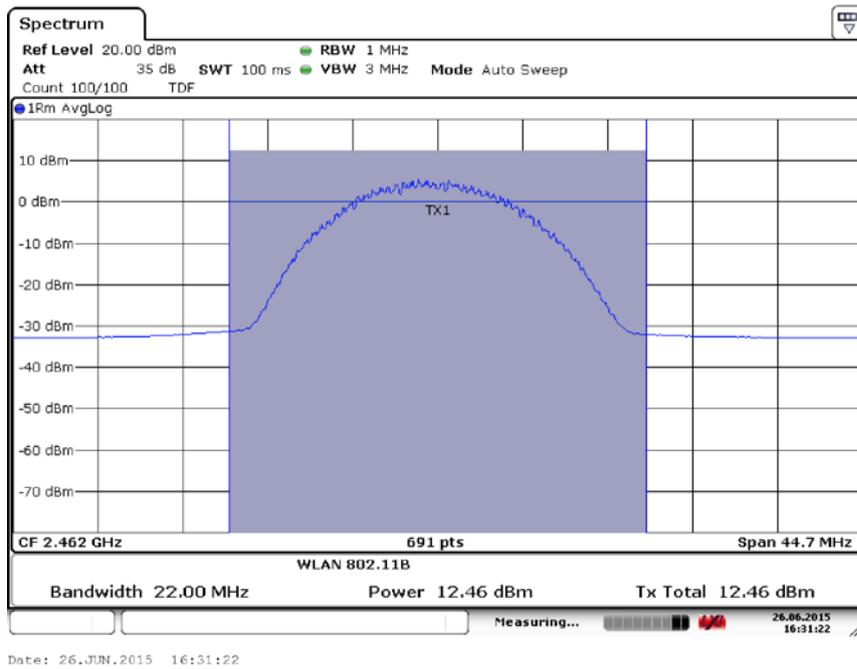


Fig.9 Maximum Average Output Power (802.11b, Ch 11,5.5Mbps)

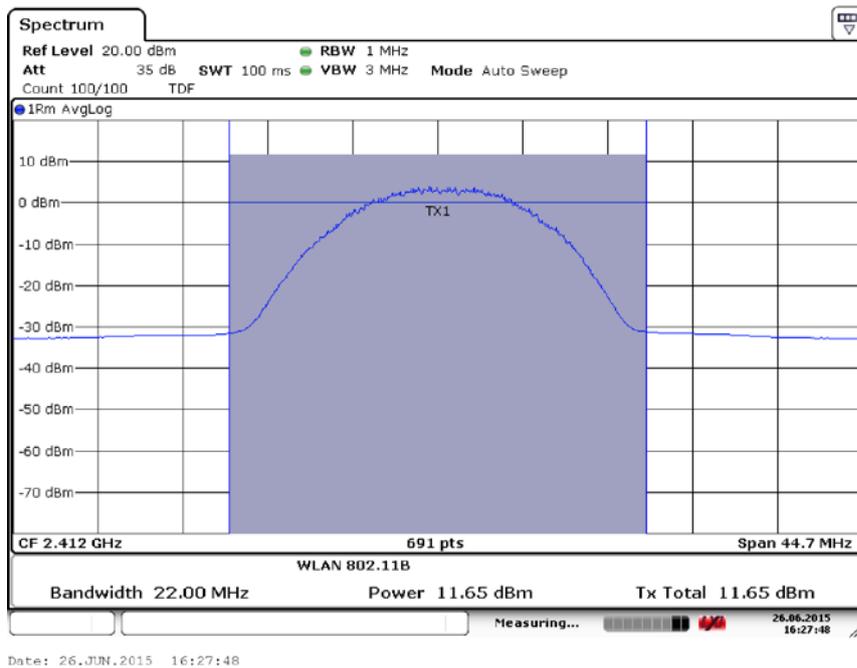


Fig.10 Maximum Average Output Power (802.11b, Ch 1,11Mbps)

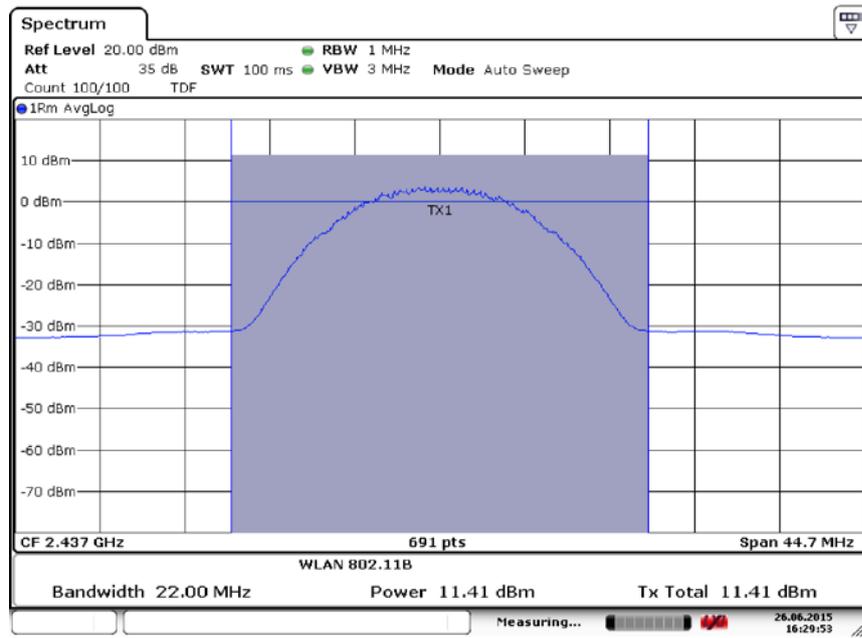


Fig.11 Maximum Average Output Power (802.11b, Ch 6,11Mbps)

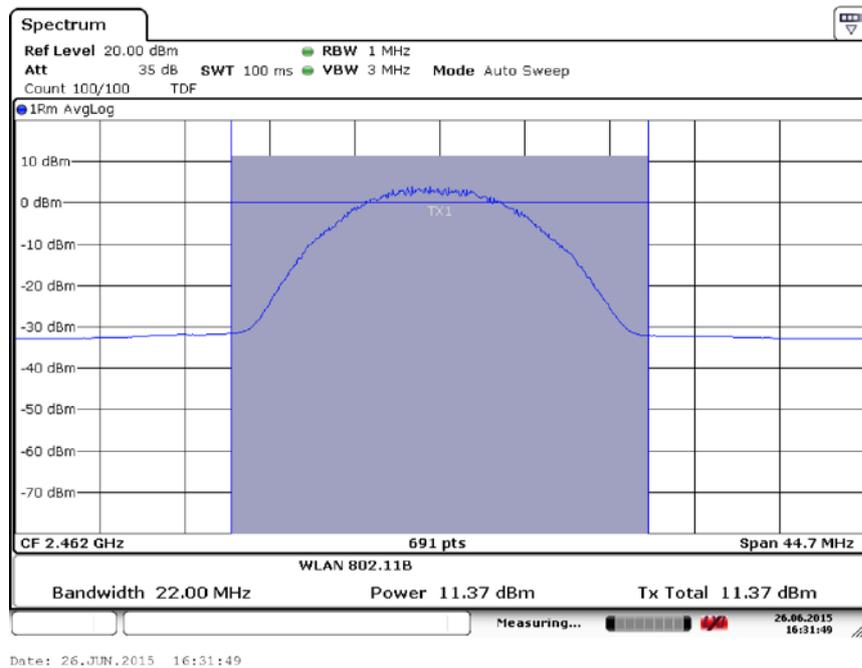
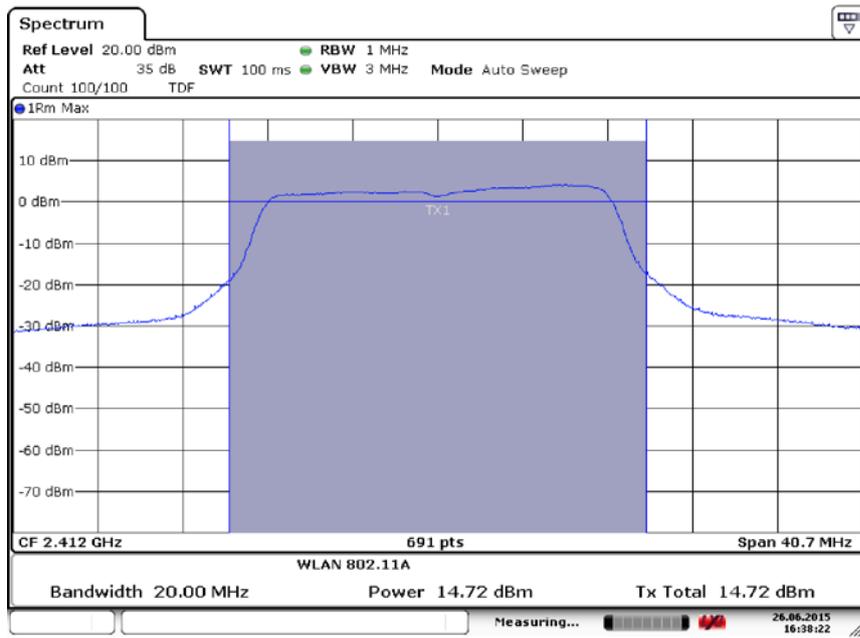
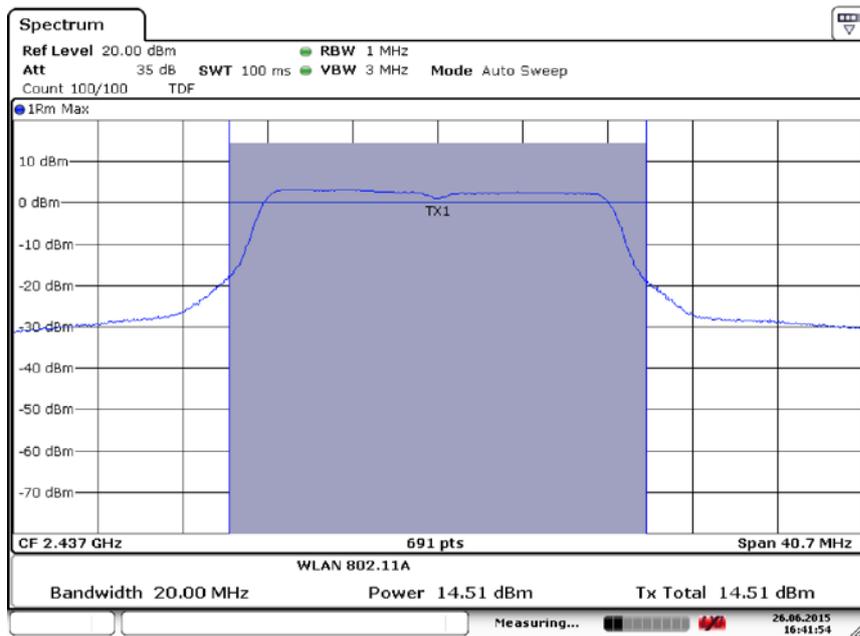


Fig.12 Maximum Average Output Power (802.11b, Ch 11,11Mbps)



Date: 26.JUN.2015 16:38:22

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



Date: 26.JUN.2015 16:41:54

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

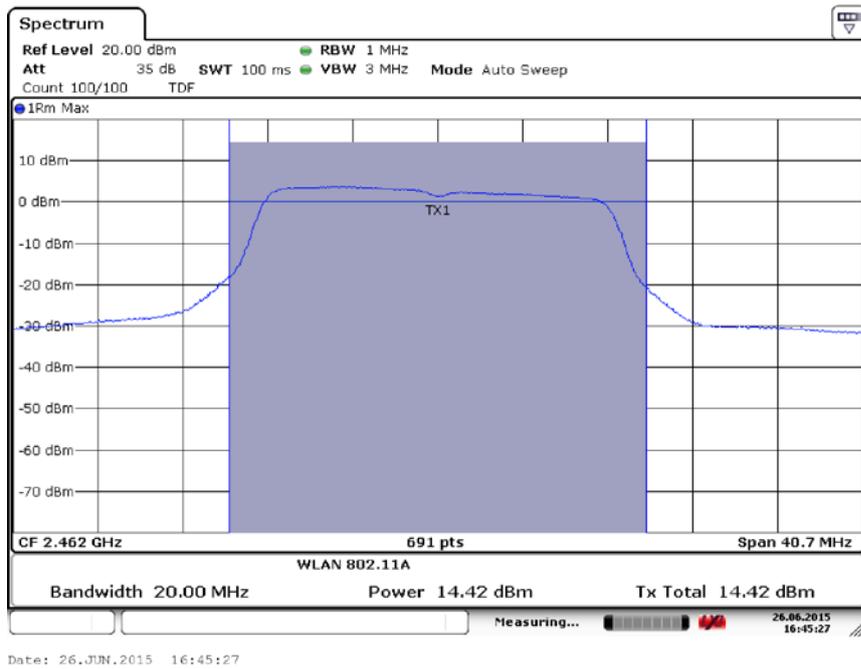


Fig.15 Maximum Average Output Power (802.11g, Ch 11,6Mbps)

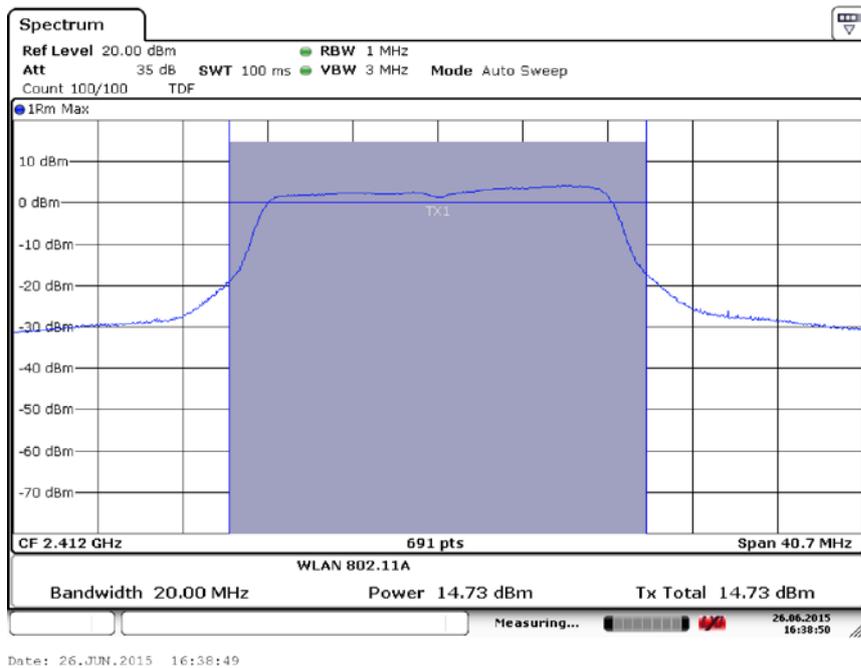
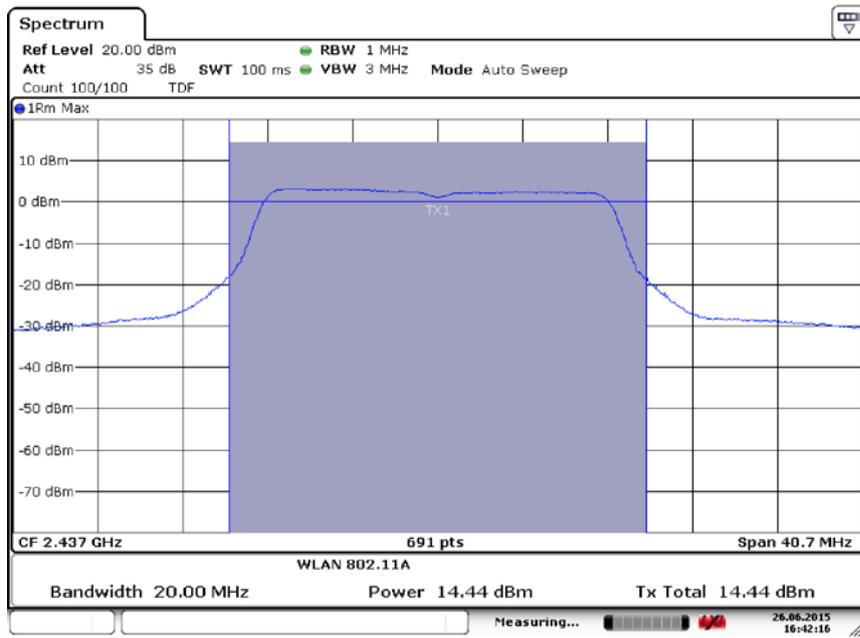
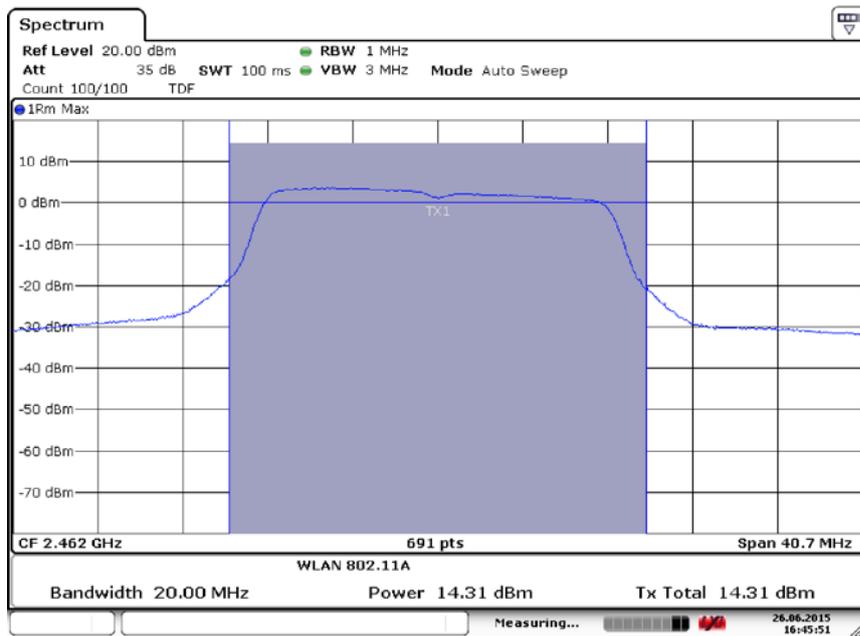


Fig.16 Maximum Average Output Power (802.11g, Ch 1,9Mbps)



Date: 26.JUN.2015 16:42:16

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



Date: 26.JUN.2015 16:45:51

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

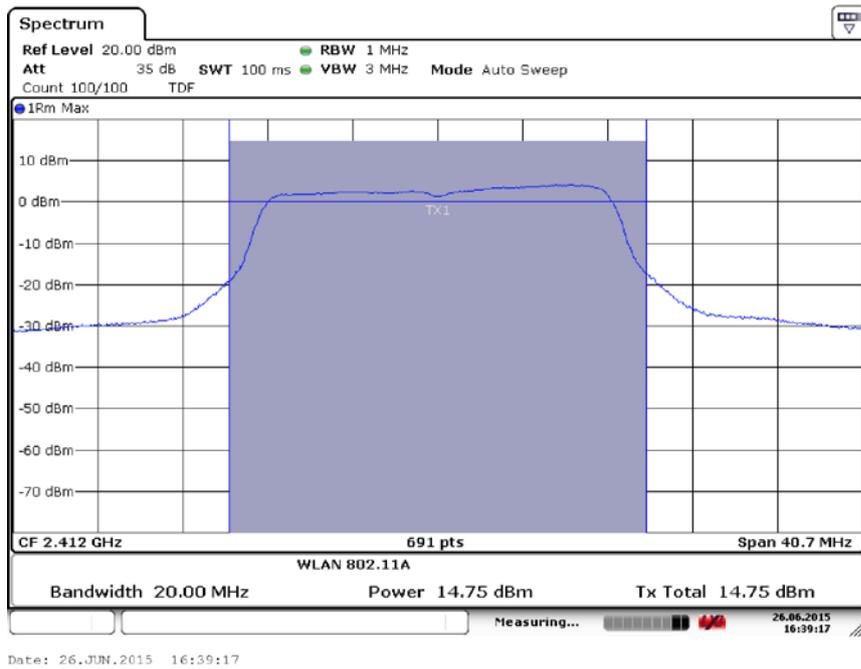


Fig.19 Maximum Average Output Power (802.11g, Ch 1,12Mbps)

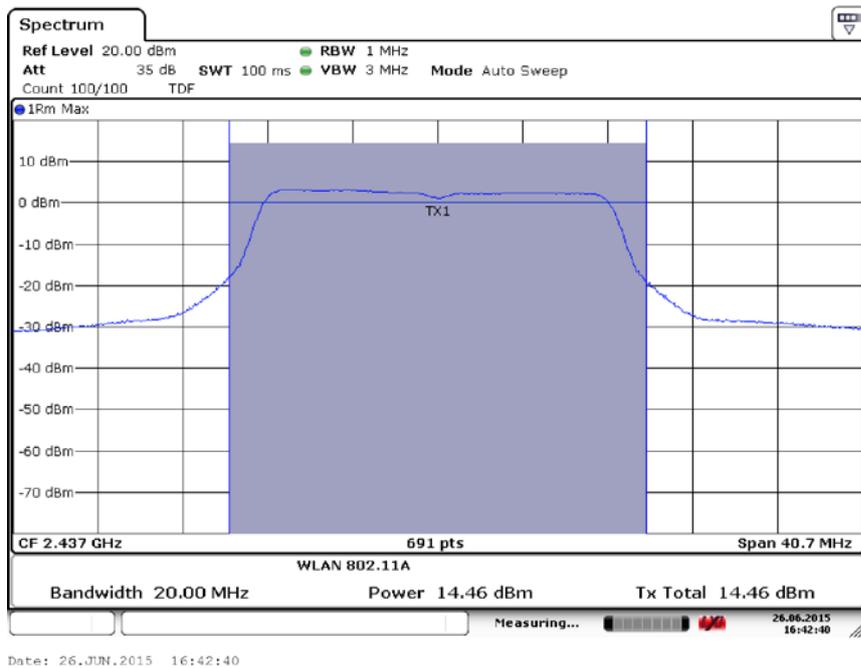


Fig.20 Maximum Average Output Power (802.11g, Ch 6,12Mbps)

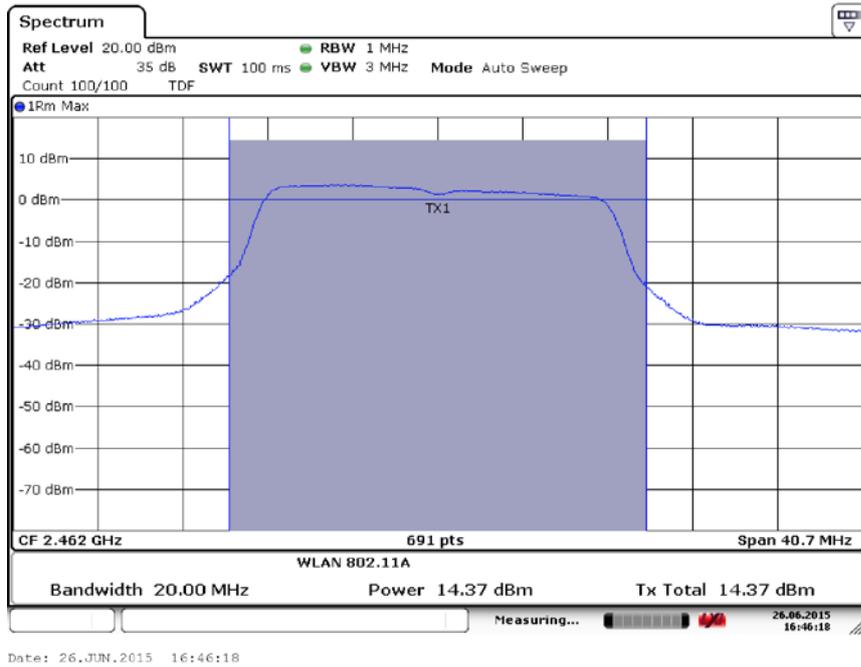


Fig.21 Maximum Average Output Power (802.11g, Ch 11,12Mbps)

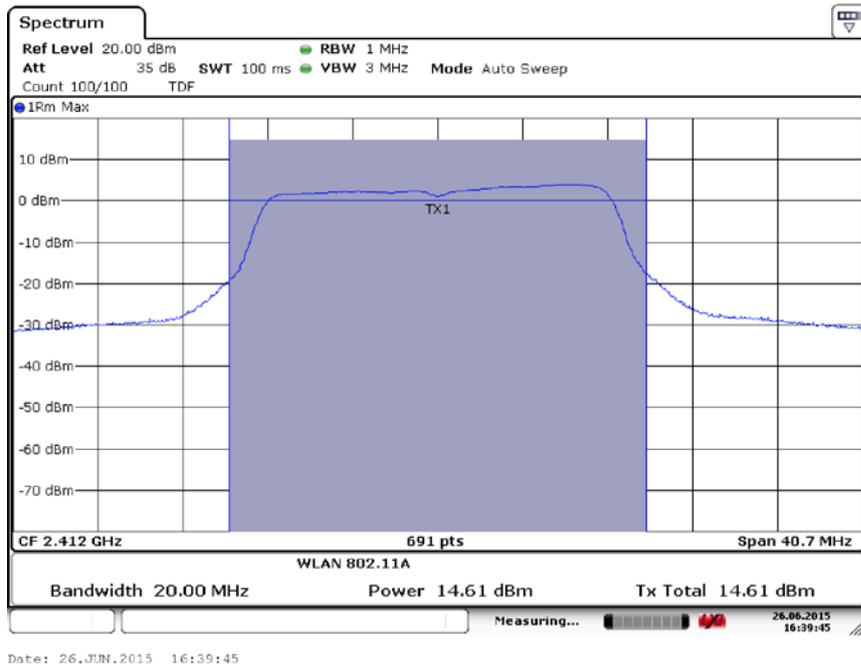


Fig.22 Maximum Average Output Power (802.11g, Ch 1,18Mbps)

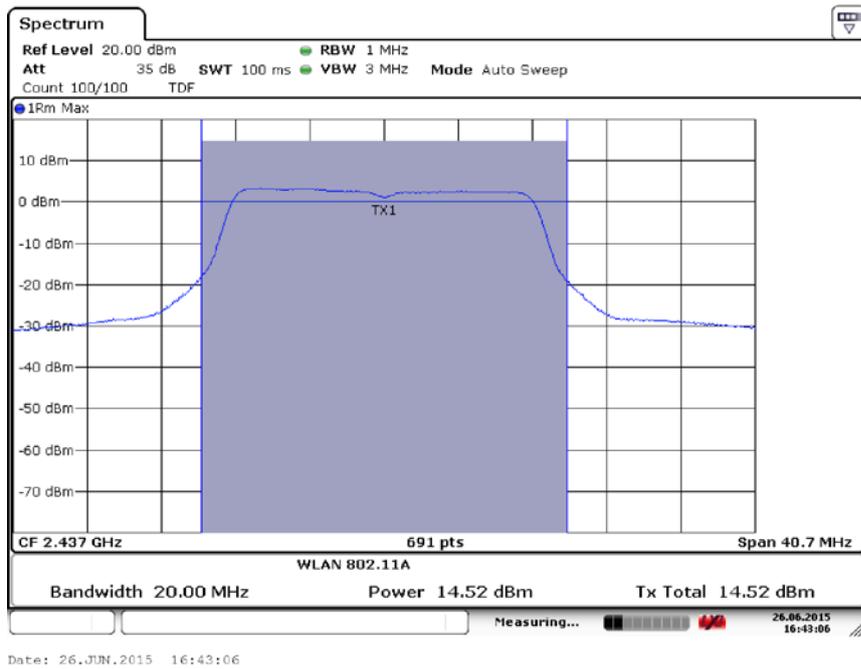


Fig.23 Maximum Average Output Power (802.11g, Ch 6,18Mbps)

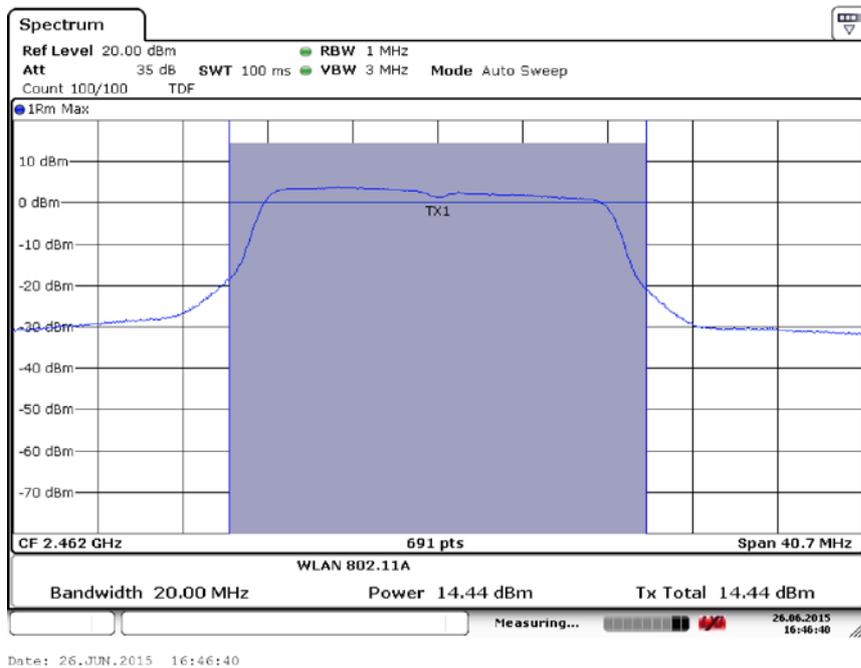


Fig.24 Maximum Average Output Power (802.11g, Ch 11,18Mbps)

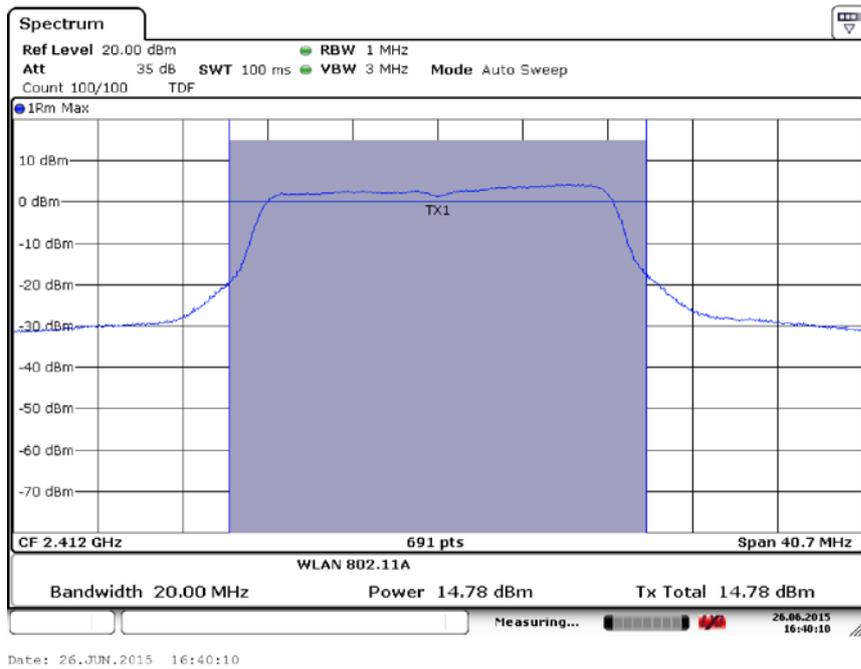


Fig.25 Maximum Average Output Power (802.11g, Ch 1,24Mbps)

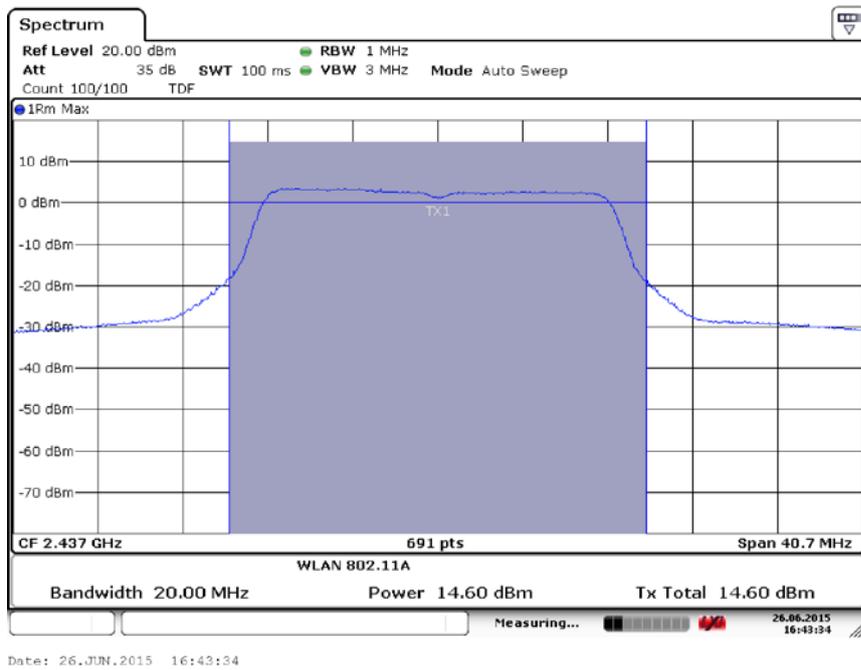


Fig.26 Maximum Average Output Power (802.11g, Ch 6,24Mbps)

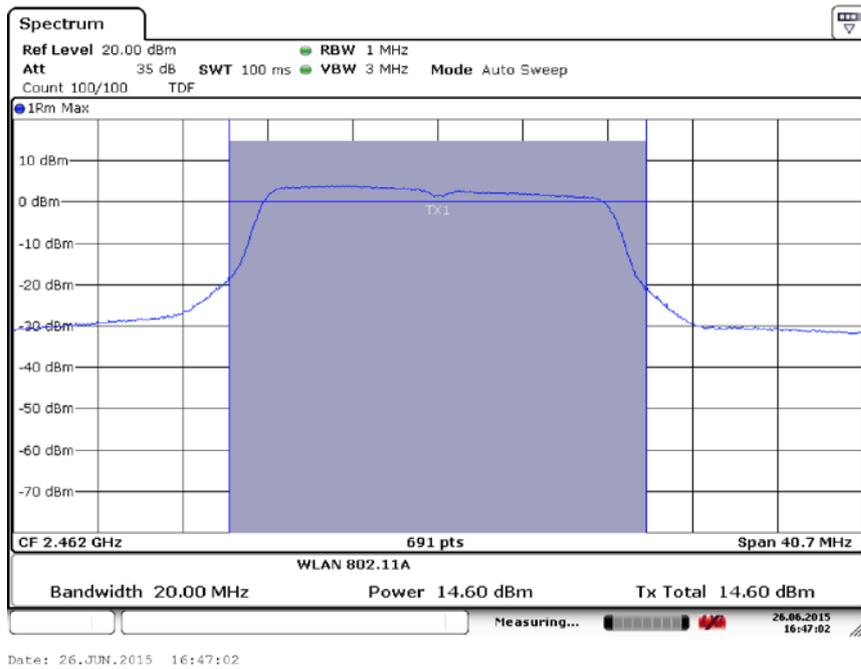


Fig.27 Maximum Average Output Power (802.11g, Ch 11,24Mbps)

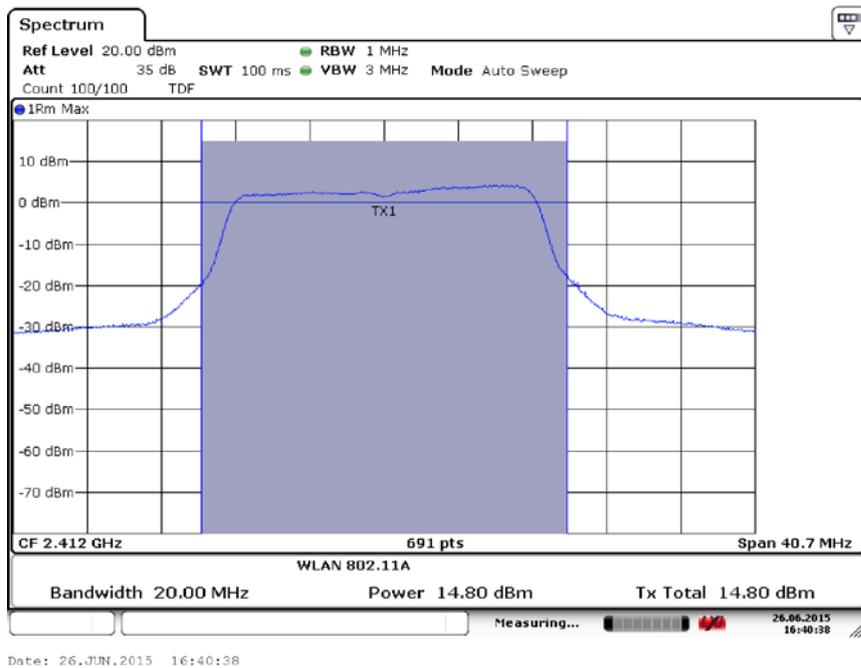


Fig.28 Maximum Average Output Power (802.11g, Ch 1,36Mbps)

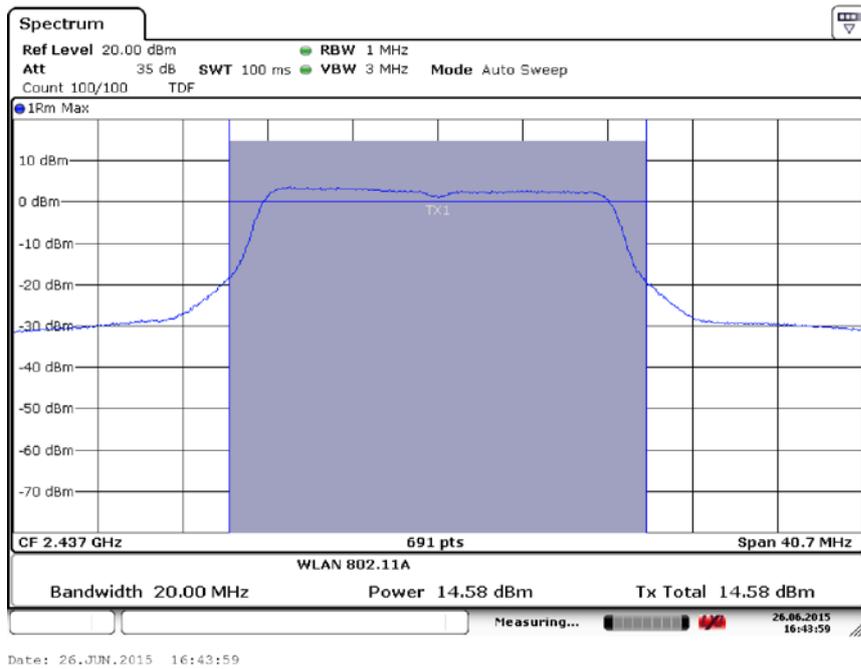


Fig.29 Maximum Average Output Power (802.11g, Ch 6,36Mbps)

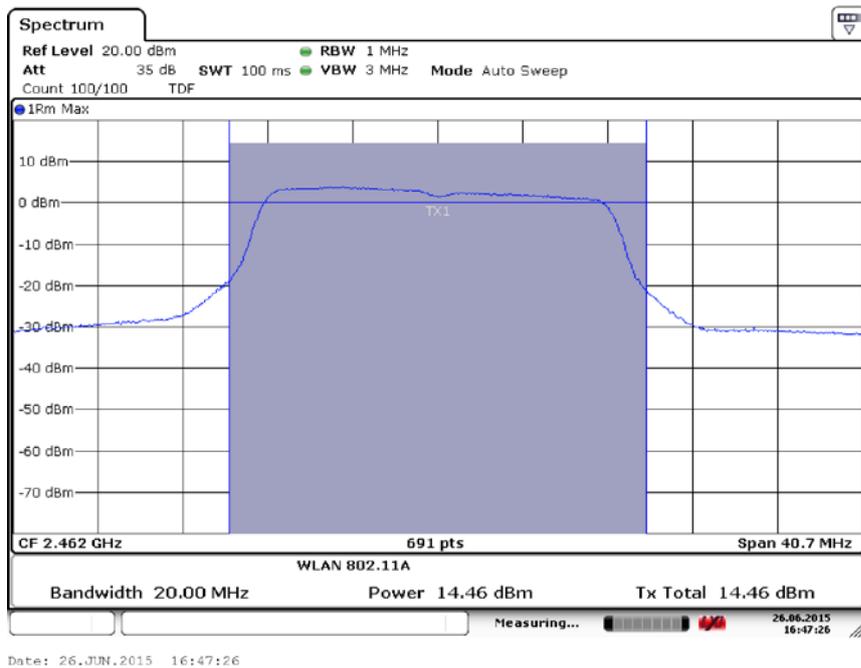


Fig.30 Maximum Average Output Power (802.11g, Ch 11,36Mbps)

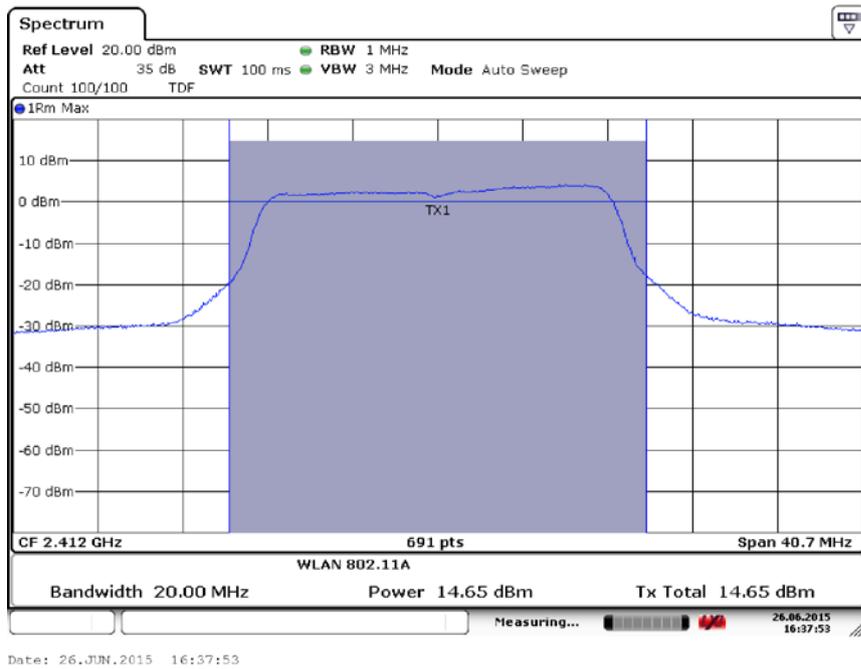


Fig.31 Maximum Average Output Power (802.11g, Ch 1,48Mbps)

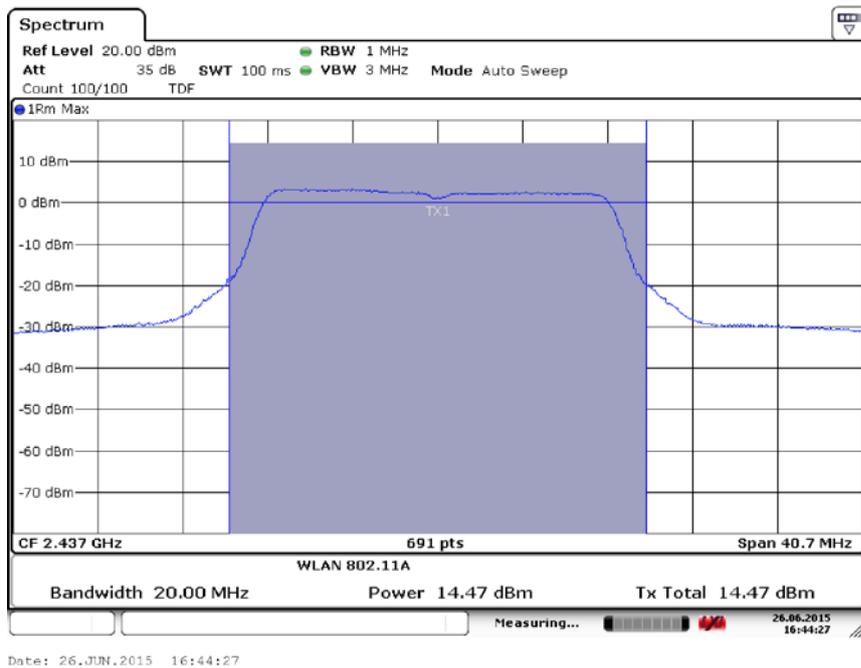


Fig.32 Maximum Average Output Power (802.11g, Ch 6,48Mbps)

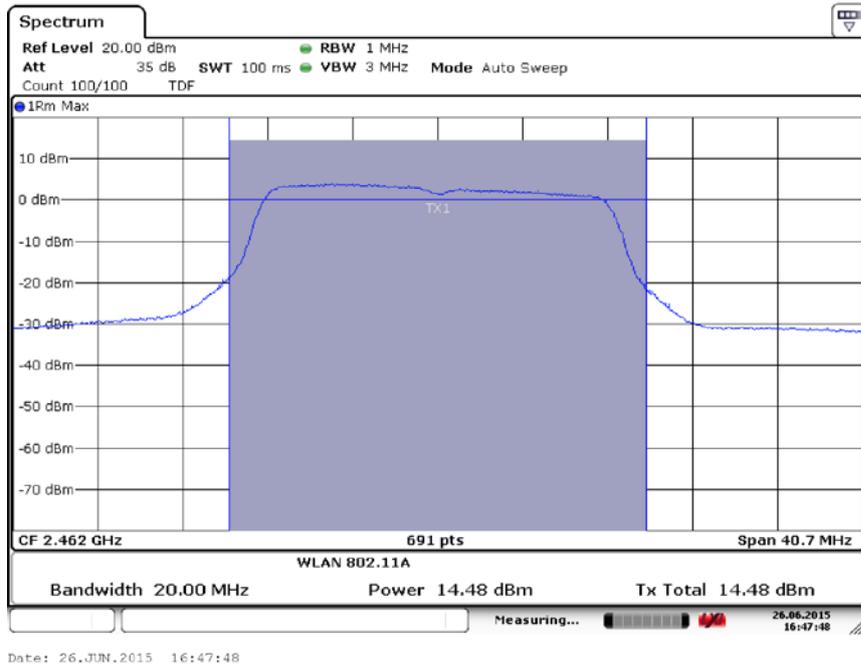


Fig.33 Maximum Average Output Power (802.11g, Ch 11,48Mbps)

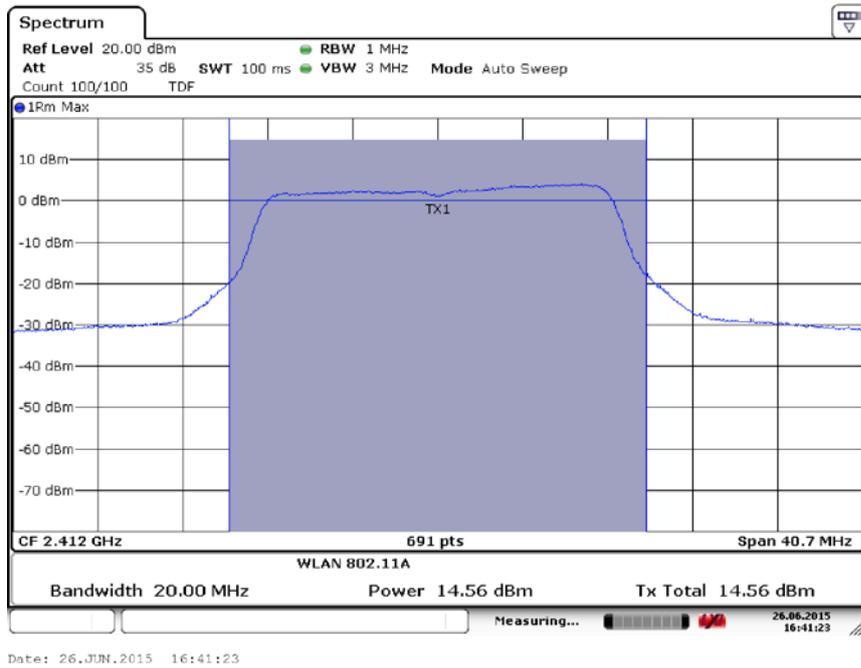


Fig.34 Maximum Average Output Power (802.11g, Ch 1,54Mbps)

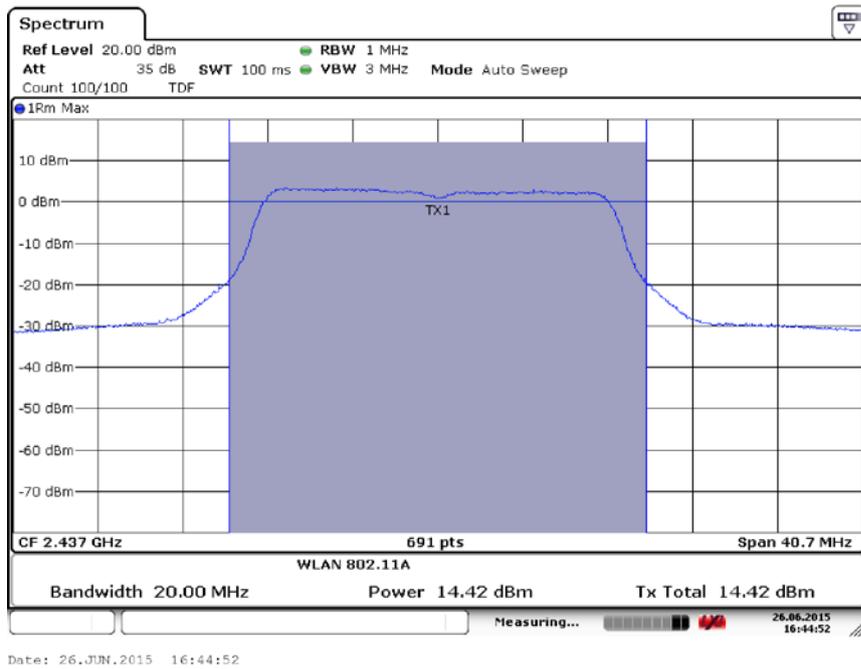


Fig.35 Maximum Average Output Power (802.11g, Ch 6,54Mbps)

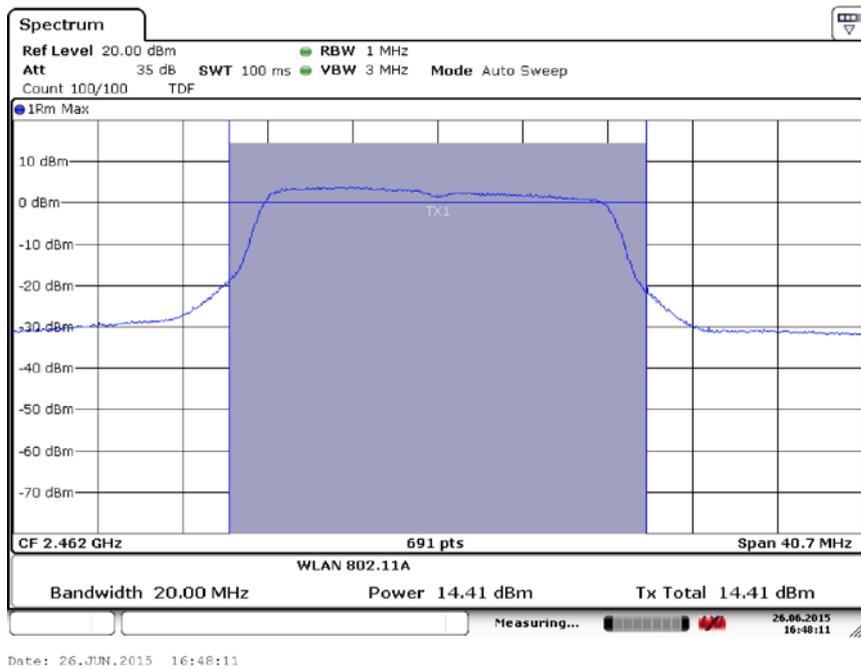


Fig.36 Maximum Average Output Power (802.11g, Ch 11,54Mbps)

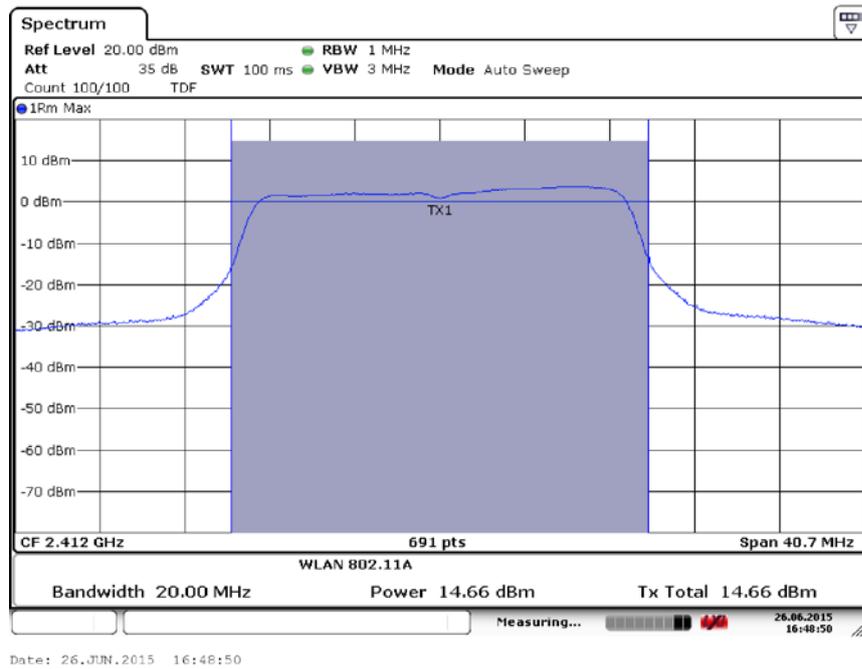


Fig.37 Maximum Average Output Power (802.11n-20MHz, Ch 1,MCS0)

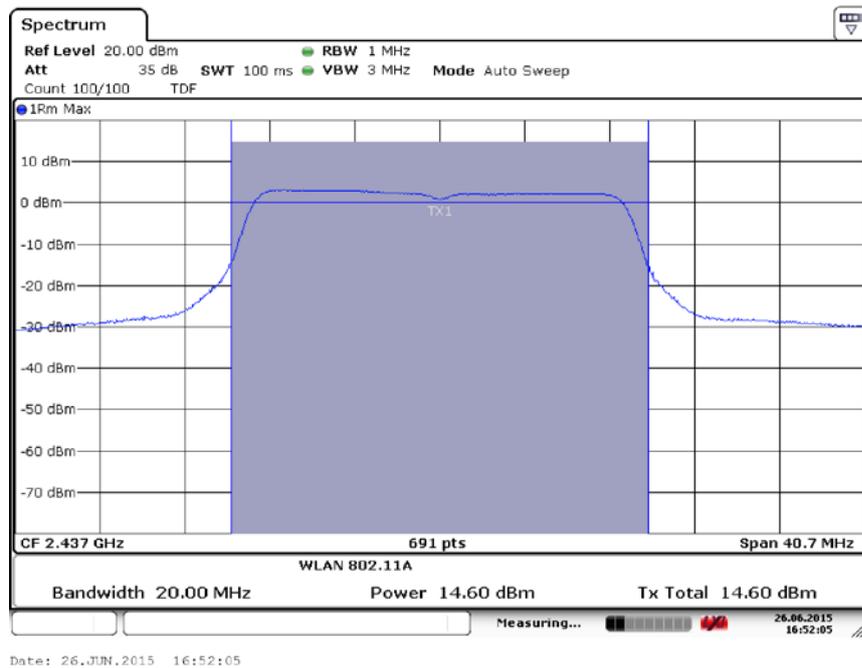


Fig.38 Maximum Average Output Power (802.11n-20MHz, Ch 6,MCS0)

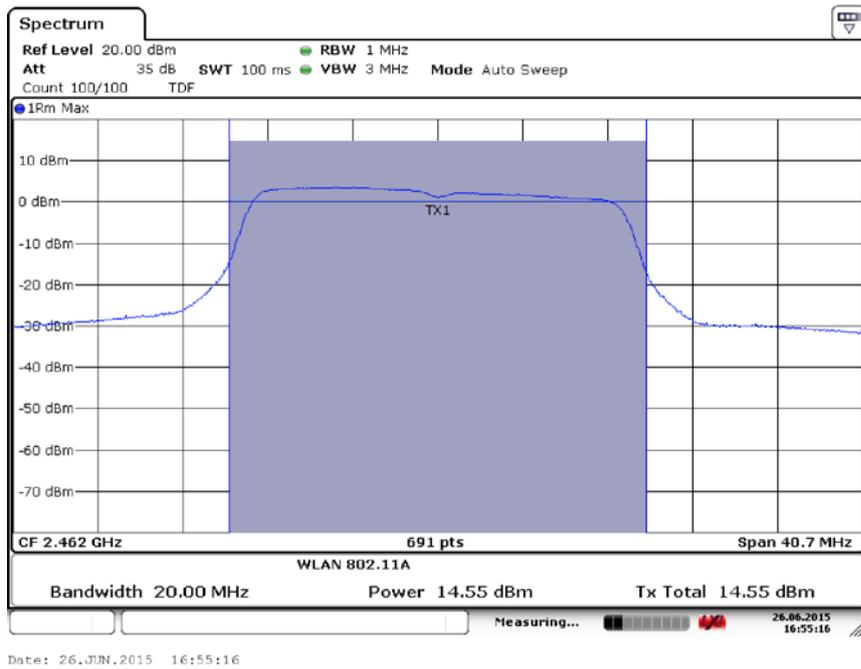


Fig.39 Maximum Average Output Power (802.11n-20MHz, Ch 11,MCS0)

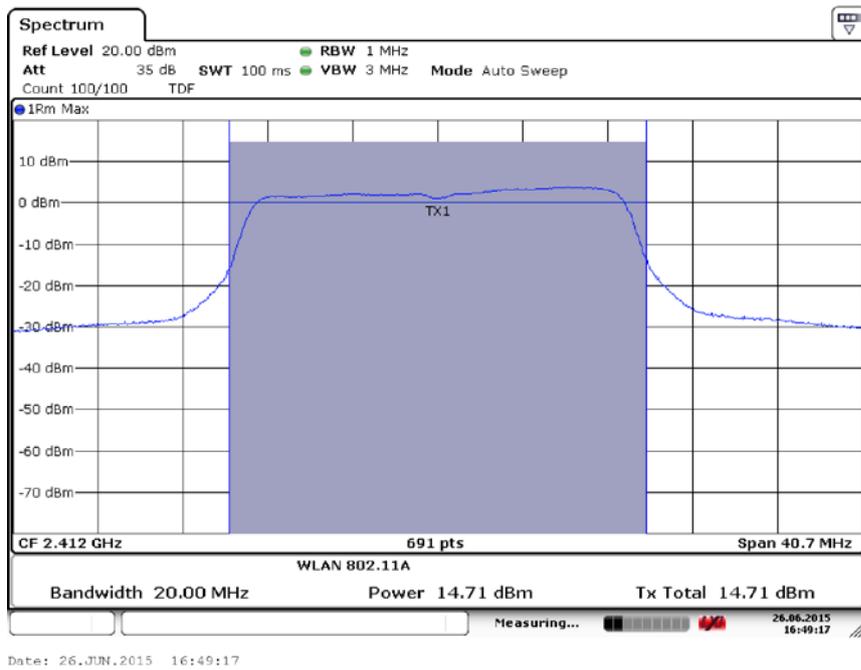


Fig.40 Maximum Average Output Power (802.11n-20MHz, Ch 1,MCS1)

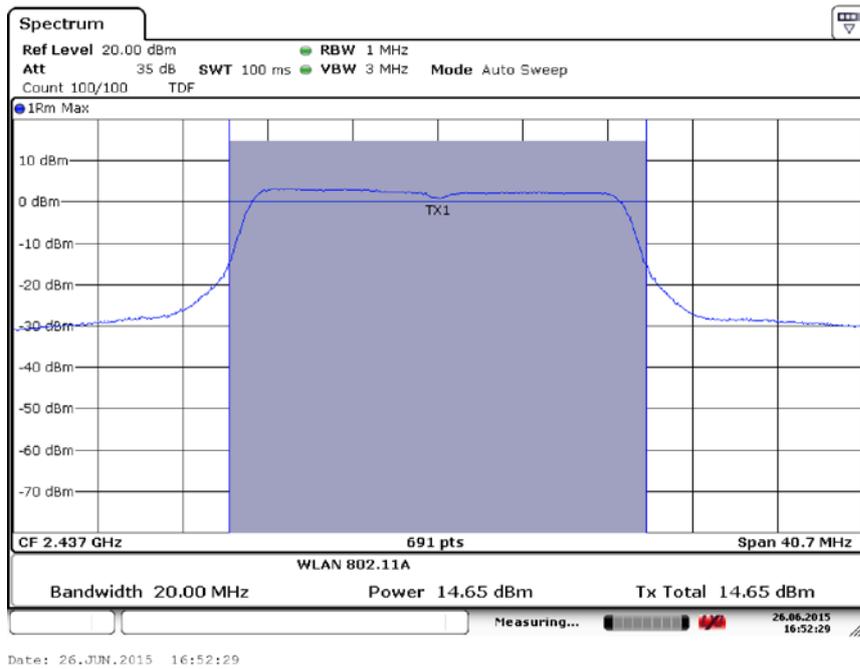


Fig.41 Maximum Average Output Power (802.11n-20MHz, Ch 6,MCS1)

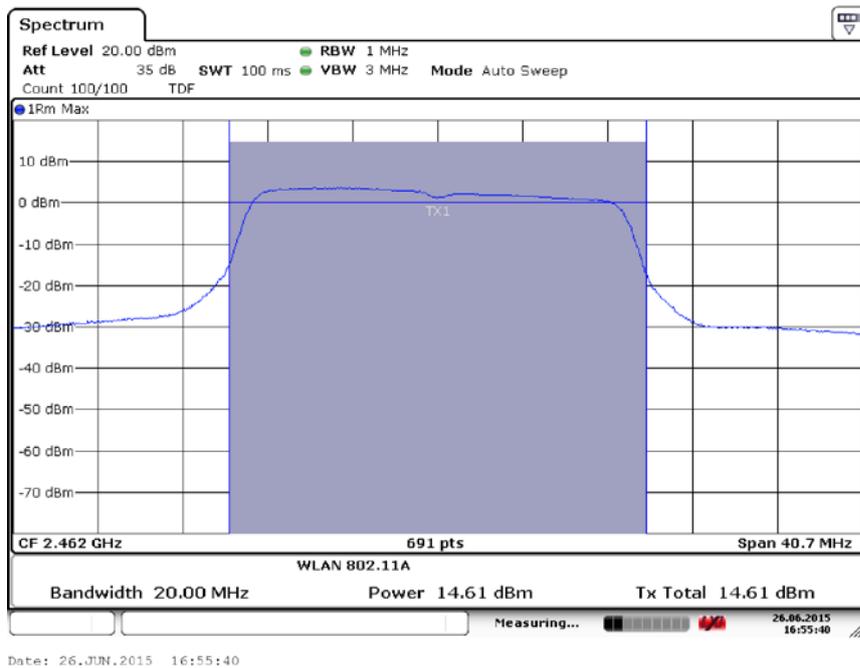


Fig.42 Maximum Average Output Power (802.11n-20MHz, Ch 11,MCS1)

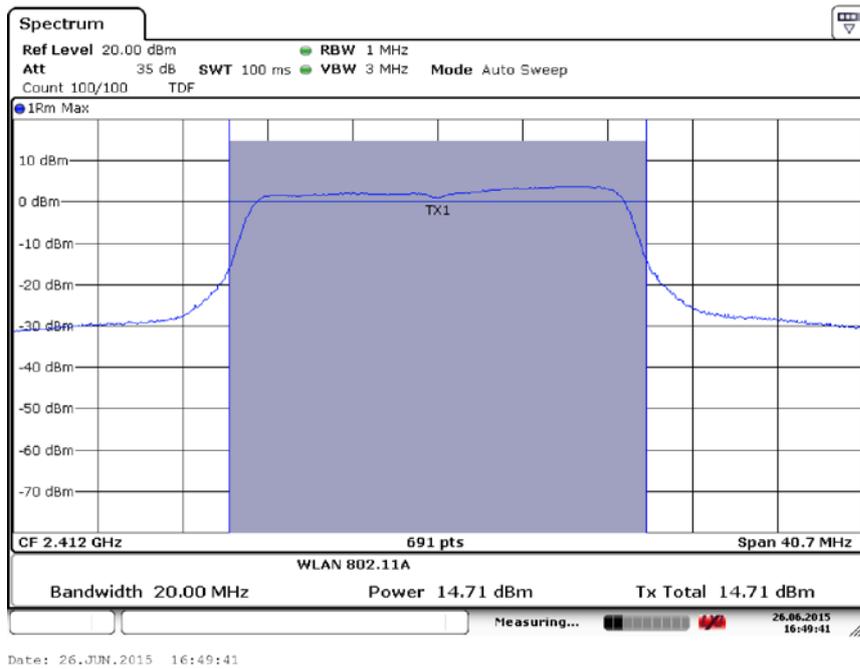


Fig.43 Maximum Average Output Power (802.11n-20MHz, Ch 1,MCS2)

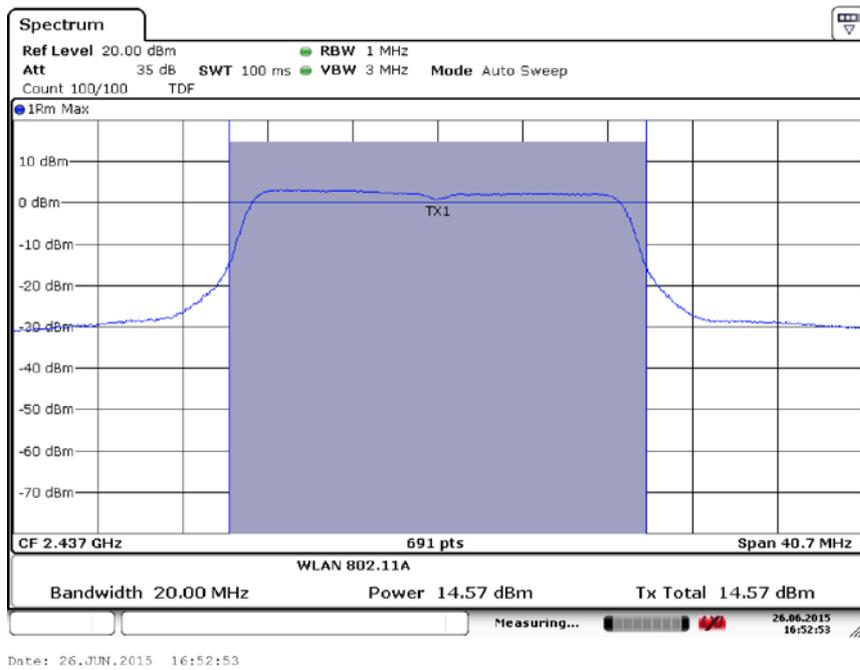


Fig.44 Maximum Average Output Power (802.11n-20MHz, Ch 6,MCS2))