



**FCC PART 15C
TEST REPORT
No. B17N00107-WLAN**

for

Huawei Technologies Co.,Ltd.

LTE CPE

Model Name: B612s-51d

With

Hardware Version: WL1B612SW

Software Version: 11.187.01.01.00

FCC ID: QISB612S-51D

Issued Date: 2017-04-06

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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1. Test Laboratory

1.1. Testing Location

Location: 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°C

Relative Humidity: 20-75%

1.3. Project data

Testing Start Date: 2017-02-10

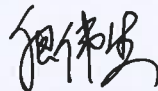
Testing End Date: 2017-04-06

1.4. Signature



Wang Haili

(Prepared this test report)



Tang Weisheng

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

3.1. About EUT

Description	LTE CPE
Model Name	B612s-51d
Market Name	HUAWEI B612s-51d,B612s-51d
RF Protocol	IEEE 802.11b/g/n20/n40
Operating Frequency	2400MHz~2483.5MHz
Antenna	Integrated
Power Supply	AC 120
FCC ID	QISB612S-51D

3.2. Internal Identification of EUT

EUT ID*	IMEI	HW Version	SW Version	Receive Date
EUT1	/	WL1B612SW	11.187.01.01.00	2017-02-10

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

3.3. Internal Identification of AE

AE ID*	Description	Type	Manufacturer
AE1	SWITCHING POWER ADAPTOR	HW-120200U01	DONGGUAN SHILONG FUHUA ELECTRONIC CO.,LTD
AE2	SWITCHING POWER ADAPTOR	HW-120200U01	Shenzhen Honor Electronic Co.,Ltd

*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	Nov,2015
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	Sub-clause of Part15C	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** 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 isotropic 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 did not exceed following limits along the EMC testing

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	0.014MHz - 1MHz, >60dB; 1MHz - 1000MHz, >90dB.
Electrical insulation	> 2 MΩ
Ground system resistance	< 4Ω
Normalised site attenuation (NSA)	< ±4dB, 3m/10m distance, from 30 to 1000 MHz
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. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	0.014MHz - 1MHz, >60dB; 1MHz - 1000MHz, >90dB.
Electrical insulation	> 2 MΩ
Ground system resistance	< 4 Ω

Fully-anechoic chamber did not exceed following limits along the EMC testing

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	0.014MHz - 1MHz, >60dB; 1MHz - 1000MHz, >90dB.
Electrical insulation	> 2 MΩ
Ground system resistance	< 4Ω
Voltage Standing Wave Ratio (VSWR)	≤6dB, from 1 to 18 GHz, 3m distance

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	2018-01-18	1 year
2	Power Sensor	U2021XA	MY55430026	Agilent	2018-01-18	1 year
3	Data Acquisiton	U2531A	TW55443507	Agilent	/	/

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1	Test Receiver	ESCI	100701	R&S	2017-08-09	1 year
2	Loop Antenna	HLA6120	35779	TESEQ	2019-05-02	3 years
3	BiLog Antenna	VULB9163	9163 330	Schwarzbeck	2017-04-22	3 years
4	Horn Antenna	3117	00066585	ETS-Lindgren	2019-03-05	3 years
5	Test Receiver	ESR7	101675	Rohde & Schwarz	2017-07-21	1 year
6	Spectrum Analyzer	FSP 40	100378	R&S	2017-12-15	1 year
7	Chamber	FACT5-2.0	4166	ETS-Lindgren	2018-05-13	3 years
8	LISN	ESH2-Z5	100196	Rohde & Schwarz	2018-01-05	1 year

Anechoic chamber

Fully anechoic chamber by ETS-Lindgren

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 1.0dBi.
The RF transmitter uses an integrate antenna without connector.**

A.1 Maximum Output Power - Conduced

Measurement Limit:

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

Measurement Results:

Antenna 1:

Mode	Transmitter Power (dBm)		
	2412MHz(Ch1)	2437MHz(Ch6)	2462 MHz(Ch11)
802.11b	15.43	15.23	15.13
802.11g	15.54	14.97	14.87
802.11n(HT20)	15.37	14.99	14.69
802.11n(HT40)	2422MHz(Ch3)	2437MHz(Ch6)	2452MHz(Ch9)
	14.25	14.43	14.52

Antenna 2:

Mode	Transmitter Power (dBm)		
	2412MHz(Ch1)	2437MHz(Ch6)	2462 MHz(Ch11)
802.11b	14.69	15.63	15.14
802.11g	14.62	15.59	15.10
802.11n(HT20)	14.65	15.71	15.23
802.11n(HT40)	2422MHz(Ch3)	2437MHz(Ch6)	2452MHz(Ch10)
	14.20	14.60	14.79

MIMO- Conduced:

Mode	Transmitter Power (dBm)								
	2412MHz (Ch1)			2437MHz (Ch6)			2462MHz (Ch11)		
	Ant1	Ant2	Sum	Ant1	Ant2	Sum	Ant1	Ant2	Sum
802.11n (HT20)	13.49	12.61	16.08	13.51	13.74	16.64	13.24	13.37	16.32
802.11n (HT40)	2422MHz(Ch3)			2437MHz(Ch6)			2452 MHz(Ch9)		
	12.68	13.03	15.87	12.84	13.44	16.16	13.22	13.33	16.29

*The data rate 1Mbps, 6Mbps and MCS0 are selected as worst condition, the following cases and **test graphs** are performed with this condition.

*Antenna 2 is selected as worst condition, the following cases and **test graphs** are performed with this condition.

antenna 1: 1 dBi antenna 2: 1 dBi

See ANNEX B for test graphs.

Conclusion: PASS



A.2 Peak Power Spectral Density

Measurement Limit:

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

Measurement Results:

802.11b/g mode

Mode	Channel	Peak Power Spectral Density(dBm)		Conclusion
802.11b	1	Fig.1	-6.78	P
	6	Fig.2	-5.04	P
	11	Fig.3	-4.24	P
802.11g	1	Fig.4	-8.51	P
	6	Fig.5	-7.11	P
	11	Fig.6	-7.11	P

802.11n-20MHz mode

Mode	Channel	Peak Power Spectral Density(dBm)		Conclusion
802.11n (20MHz)	1	Fig.7	-9.08	P
	6	Fig.8	-7.15	P
	11	Fig.9	-7.33	P

802.11n-40MHz mode

Mode	Channel	Peak Power Spectral Density(dBm)		Conclusion
802.11n (40MHz)	3	Fig.10	-10.63	P
	6	Fig.11	-11.05	P
	9	Fig.12	-9.78	P

MIMIO

Mode	Channel	Peak Power Spectral Density(dBm)					Conclusion
		Ant1		Ant2		Sum	
802.11n (20MHz)	1	Fig.13	-9.77	Fig.14	-11.53	-7.55	P
	6	Fig.15	-8.70	Fig.16	-9.77	-6.19	P
	11	Fig.17	-9.92	Fig.18	-9.85	-9.58	P
802.11n (40MHz)	3	Fig.19	-12.89	Fig.20	-12.78	-9.82	P
	6	Fig.21	-12.12	Fig.22	-12.85	-9.46	P
	9	Fig.23	-12.18	Fig.24	-12.88	-9.51	P

See ANNEX B 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.25	8100	P
	6	Fig.26	8050	P
	11	Fig.27	8100	P
802.11g	1	Fig.28	1505	P
	6	Fig.29	1510	P
	11	Fig.30	1510	P

802.11n-20MHz mode

Mode	Channel	Test Results (kHz)		conclusion
802.11n (20MHz)	1	Fig.31	1510	P
	6	Fig.32	1510	P
	11	Fig.33	1510	P

802.11n-40MHz mode

Mode	Channel	Test Results (kHz)		conclusion
802.11n (40MHz)	3	Fig.34	3568	P
	6	Fig.35	3512	P
	9	Fig.36	3576	P

See ANNEX B 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.37	P
	11	Fig.38	P
802.11g	1	Fig.39	P
	11	Fig.40	P

802.11n-20MHz mode

Mode	Channel	Test Results	Conclusion
802.11n (20MHz)	1	Fig.41	P
	11	Fig.42	P

802.11n-40MHz mode

Mode	Channel	Test Results	Conclusion
802.11n (40MHz)	3	Fig.43	P
	9	Fig.44	P

See ANNEX B for test graphs.

Conclusion: PASS

A.5 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.45	P
		30 MHz-26 GHz	Fig.46	P
	6	2.437 GHz	Fig.47	P
		30 MHz-26 GHz	Fig.48	P
	11	2.462 GHz	Fig.49	P
		30 MHz-26 GHz	Fig.50	P
802.11g	1	2.412 GHz	Fig.51	P
		30 MHz-26 GHz	Fig.52	P
	6	2.437 GHz	Fig.53	P
		30 MHz-26 GHz	Fig.54	P
	11	2.462 GHz	Fig.55	P
		30 MHz-26 GHz	Fig.56	P

802.11n-20MHz mode

802.11n (20MHz)	1	2.412 GHz	Fig.57	P
		30 MHz-26 GHz	Fig.58	P
	6	2.437 GHz	Fig.59	P
		30 MHz-26 GHz	Fig.60	P
	11	2.462 GHz	Fig.61	P
		30 MHz-26 GHz	Fig.62	P

802.11n-40MHz mode

802.11n (40MHz)	3	2.422 GHz	Fig.63	P
		30 MHz-26 GHz	Fig.64	P
	6	2.437 GHz	Fig.65	P
		30 MHz-26 GHz	Fig.66	P
	9	2.452 GHz	Fig.67	P
		30 MHz-26 GHz	Fig.68	P

MIMO

Antenna 1

802.11n-20MHz mode

802.11n (20MHz)	1	2.412 GHz	Fig.69	P
		30 MHz-26 GHz	Fig.70	P
	6	2.437 GHz	Fig.71	P
		30 MHz-26 GHz	Fig.72	P
	11	2.462 GHz	Fig.73	P
		30 MHz-26 GHz	Fig.74	P

802.11n-40MHz mode

802.11n (40MHz)	3	2.422 GHz	Fig.75	P
		30 MHz-26 GHz	Fig.76	P
	6	2.437 GHz	Fig.77	P
		30 MHz-26 GHz	Fig.78	P
	9	2.452 GHz	Fig.79	P
		30 MHz-26 GHz	Fig.80	P

Antenna 2

802.11n-20MHz mode

802.11n (20MHz)	1	2.412 GHz	Fig.81	P
		30 MHz-26 GHz	Fig.82	P
	6	2.437 GHz	Fig.83	P
		30 MHz-26 GHz	Fig.84	P
	11	2.462 GHz	Fig.85	P
		30 MHz-26 GHz	Fig.86	P

802.11n-40MHz mode

802.11n (40MHz)	3	2.422 GHz	Fig.87	P
		30 MHz-26 GHz	Fig.88	P
	6	2.437 GHz	Fig.89	P
		30 MHz-26 GHz	Fig.90	P
	9	2.452 GHz	Fig.91	P
		30 MHz-26 GHz	Fig.92	P

See ANNEX B for test graphs.

Conclusion: PASS

A.6 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($\mu\text{V}/\text{m}$)	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.93	P
	6	9 kHz ~30 MHz	Fig.94	P
		30 MHz ~1 GHz	Fig.95	P
		1 GHz ~18 GHz	Fig.96	P
		18 GHz ~26.5 GHz	Fig.97	P
	11	1 GHz ~18 GHz	Fig.98	P
	Power(CH1)	2.38 GHz ~ 2.45 GHz	Fig.99	P
Power(CH11)	2.45 GHz ~ 2.5 GHz	Fig.100	P	
802.11g	1	1 GHz ~18 GHz	Fig.101	P
	6	9 kHz ~30 MHz	Fig.102	P
		30 MHz ~1 GHz	Fig.103	P
		1 GHz ~18 GHz	Fig.104	P
		18 GHz ~26.5 GHz	Fig.105	P
	11	1 GHz ~18 GHz	Fig.106	P
	Power(CH1)	2.38 GHz ~ 2.45 GHz	Fig.107	P
Power(CH11)	2.45 GHz ~ 2.5 GHz	Fig.108	P	

802.11n-20MHz mode

802.11n-20 MHz	1	1 GHz ~18 GHz	Fig.109	P
	6	9 kHz ~30 MHz	Fig.110	P
		30 MHz ~1 GHz	Fig.111	P
		1 GHz ~18 GHz	Fig.112	P
		18 GHz ~26.5 GHz	Fig.113	P
	11	1 GHz ~18 GHz	Fig.114	P
	Power(CH1)	2.38 GHz ~ 2.45 GHz	Fig.115	P
Power(CH11)	2.45 GHz ~ 2.5 GHz	Fig.116	P	

802.11n-40MHz mode

802.11n-40 MHz	3	1 GHz ~18 GHz	Fig.117	P
	6	9 kHz ~30 MHz	Fig.118	P
		30 MHz ~1 GHz	Fig.119	P
		1 GHz ~18 GHz	Fig.120	P
		18 GHz ~26.5 GHz	Fig.121	P
	9	1 GHz ~18 GHz	Fig.122	P
	Power(CH3)	2.38 GHz ~ 2.45 GHz	Fig.123	P
Power(CH9)	2.45 GHz ~ 2.5 GHz	Fig.124	P	



MIMO

Antenna 1+Antenna 2

802.11n-20MHz mode

802.11n-20 MHz	1	1 GHz ~18 GHz	Fig.125	P
	6	9 kHz ~30 MHz	Fig.126	P
		30 MHz ~1 GHz	Fig.127	P
		1 GHz ~18 GHz	Fig.128	P
		18 GHz ~26.5 GHz	Fig.129	P
	11	1 GHz ~18 GHz	Fig.130	P
	Power(CH1)	2.38 GHz ~ 2.45 GHz	Fig.131	P
	Power(CH11)	2.45 GHz ~ 2.5 GHz	Fig.132	P

802.11n-40MHz mode

802.11n-40 MHz	3	1 GHz ~18 GHz	Fig.133	P
	6	9 kHz ~30 MHz	Fig.134	P
		30 MHz ~1 GHz	Fig.135	P
		1 GHz ~18 GHz	Fig.136	P
		18 GHz ~26.5 GHz	Fig.137	P
	9	1 GHz ~18 GHz	Fig.138	P
	Power(CH3)	2.38 GHz ~ 2.45 GHz	Fig.139	P
	Power(CH9)	2.45 GHz ~ 2.5 GHz	Fig.140	P



802.11b CH1 (1-18GHz)

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
14028.000000	54.93	74.00	19.07	V	10.9
14604.000000	56.18	74.00	17.82	H	11.9
15694.000000	57.35	74.00	16.65	V	12.7
16151.500000	56.77	74.00	17.23	H	13.1
16781.000000	58.11	74.00	15.89	H	13.9
17763.500000	57.33	74.00	16.67	H	13.9

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
14540.000000	43.11	54.00	10.89	H	11.9
15123.000000	44.03	54.00	9.97	H	12.1
15686.000000	45.29	54.00	8.71	V	12.6
16218.000000	45.41	54.00	8.59	H	13.1
16700.000000	46.02	54.00	7.98	H	13.8
17324.500000	45.42	54.00	8.58	H	14.0

802.11b CH 6(1-18GHz)

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
14518.000000	54.95	74.00	19.05	V	11.8
15138.500000	55.90	74.00	18.10	H	12.1
15707.500000	57.44	74.00	16.56	V	12.7
16270.000000	57.44	74.00	16.56	V	13.2
16840.000000	57.49	74.00	16.51	H	13.9
17403.500000	57.80	74.00	16.20	H	14.0

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
14151.500000	43.04	54.00	10.96	H	11.2
15171.000000	44.14	54.00	9.86	V	12.1
15772.000000	45.37	54.00	8.63	V	12.8
16249.000000	45.72	54.00	8.28	H	13.2
16742.000000	46.45	54.00	7.55	V	13.9
17275.500000	45.98	54.00	8.02	H	13.9



802.11b CH 11(1GHz-18GHz)

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
14213.500000	55.31	74.00	18.69	V	11.3
15125.000000	55.86	74.00	18.14	H	12.1
15791.500000	57.14	74.00	16.86	H	12.8
16515.000000	57.68	74.00	16.32	V	13.7
16842.000000	57.62	74.00	16.38	V	13.9
17376.500000	57.65	74.00	16.35	H	14.0

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
14532.000000	43.24	54.00	10.76	V	11.8
15147.000000	44.29	54.00	9.71	V	12.1
15681.500000	45.55	54.00	8.45	V	12.6
16233.500000	45.88	54.00	8.12	V	13.1
16814.500000	46.41	54.00	7.59	H	13.9
17311.500000	45.88	54.00	8.13	V	13.9

802.11g CH1 (1G-18GHz)

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
14550.000000	55.32	74.00	18.68	V	11.9
15032.000000	55.55	74.00	18.45	H	12.1
15744.500000	57.31	74.00	16.69	V	12.8
16168.000000	58.29	74.00	15.71	V	13.1
16719.500000	57.55	74.00	16.45	V	13.8
17340.000000	57.47	74.00	16.53	V	14.0

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
14537.000000	43.20	54.00	10.80	V	11.9
15148.500000	44.15	54.00	9.85	H	12.1
15678.000000	45.37	54.00	8.63	H	12.6
16213.000000	45.78	54.00	8.22	V	13.1
16778.500000	46.14	54.00	7.86	H	13.9
17384.000000	45.78	54.00	8.22	H	14.0



802.11g CH6 (1GHz-18GHz)

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
14101.000000	55.12	74.00	18.88	H	11.1
15174.500000	55.79	74.00	18.21	V	12.1
15796.500000	56.93	74.00	17.07	V	12.8
16333.000000	56.91	74.00	17.09	V	13.4
16729.000000	57.07	74.00	16.93	H	13.8
17310.500000	56.61	74.00	17.39	H	13.9

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
14529.500000	43.42	54.00	10.58	V	11.8
15139.500000	43.91	54.00	10.09	V	12.1
15760.000000	45.17	54.00	8.83	V	12.8
16225.500000	45.17	54.00	8.83	H	13.1
16793.500000	45.60	54.00	8.40	H	13.9
17373.500000	45.10	54.00	8.90	H	14.0

802.11g CH11 (1GHz-18GHz)

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
14534.000000	55.01	74.00	18.99	V	11.9
15048.500000	56.00	74.00	18.00	V	12.1
15778.500000	56.77	74.00	17.23	V	12.8
16157.500000	57.09	74.00	16.91	V	13.1
16683.000000	57.22	74.00	16.78	H	13.8
17411.500000	56.79	74.00	17.21	V	14.0

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Corr. (dB)	Pol
14527.000000	43.30	54.00	10.70	V	11.8
15134.000000	43.95	54.00	10.05	V	12.1
15752.500000	45.08	54.00	8.92	H	12.8
16225.500000	45.05	54.00	8.95	H	13.1
16786.000000	45.49	54.00	8.51	H	13.9
17402.000000	44.95	54.00	9.05	H	14.0



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

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
14082.000000	55.10	74.00	18.90	H	11.1
15047.000000	56.42	74.00	17.58	H	12.1
15715.000000	57.13	74.00	16.87	V	12.7
16265.500000	56.95	74.00	17.05	V	13.2
16761.000000	56.92	74.00	17.08	V	13.9
17282.000000	57.24	74.00	16.76	V	13.9

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
14539.500000	43.22	54.00	10.78	H	11.9
15143.000000	43.86	54.00	10.14	H	12.1
15769.000000	45.20	54.00	8.80	H	12.8
16203.500000	45.11	54.00	8.89	H	13.1
16820.000000	45.66	54.00	8.34	H	13.9
17332.500000	45.16	54.00	8.84	H	14.0

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

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
14494.500000	55.28	74.00	18.72	H	11.8
15131.500000	55.80	74.00	18.20	H	12.1
15680.500000	56.85	74.00	17.15	V	12.6
16251.500000	57.25	74.00	16.75	H	13.2
16752.500000	57.16	74.00	16.84	V	13.9
17425.000000	56.21	74.00	17.79	V	14.0

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
14532.000000	43.17	54.00	10.83	H	11.8
15161.000000	43.94	54.00	10.06	H	12.1
15741.500000	45.18	54.00	8.82	H	12.8
16321.000000	45.00	54.00	9.00	H	13.4
16799.500000	45.59	54.00	8.41	H	13.9
17340.000000	45.19	54.00	8.81	H	14.0

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

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
14270.000000	54.90	74.00	19.10	V	11.4
15139.000000	55.43	74.00	18.57	H	12.1
15663.000000	56.43	74.00	17.57	V	12.6
16222.000000	57.58	74.00	16.42	V	13.1
16765.500000	57.92	74.00	16.08	H	13.9
17423.500000	57.04	74.00	16.96	V	14.0

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
14520.000000	43.27	54.00	10.73	H	11.8
15166.500000	44.09	54.00	9.91	H	12.1
15775.500000	45.16	54.00	8.84	H	12.8
16223.000000	45.29	54.00	8.71	V	13.1
16738.500000	45.56	54.00	8.44	H	13.9
17391.500000	45.31	54.00	8.69	H	14.0

802.11n-40MHz CH3 (1GHz-18GHz)

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
14164.500000	56.16	74.00	17.84	H	11.2
15108.500000	55.35	74.00	18.65	H	12.1
15773.500000	57.54	74.00	16.46	H	12.8
16288.000000	56.73	74.00	17.27	V	13.3
16728.000000	57.43	74.00	16.57	V	13.8
17629.500000	56.63	74.00	17.37	H	13.9

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
14533.500000	43.29	54.00	10.71	V	11.9
15176.500000	43.78	54.00	10.22	H	12.1
15675.500000	45.03	54.00	8.97	H	12.6
16210.000000	45.00	54.00	9.00	H	13.1
16760.000000	45.67	54.00	8.33	H	13.9
17347.500000	45.14	54.00	8.86	H	14.0

802.11n-40MHz CH6 (1GHz-18GHz)

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
14222.500000	54.85	74.00	19.15	H	11.3
15168.500000	55.54	74.00	18.46	H	12.1
15779.500000	56.57	74.00	17.43	V	12.8
16318.500000	57.57	74.00	16.43	H	13.3
16766.500000	57.35	74.00	16.65	H	13.9
17350.500000	56.82	74.00	17.18	H	14.0

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
14547.500000	43.19	54.00	10.81	H	11.9
15116.000000	43.95	54.00	10.05	V	12.1
15772.500000	45.09	54.00	8.91	V	12.8
16228.500000	45.07	54.00	8.93	H	13.1
16678.500000	45.50	54.00	8.50	H	13.8
17360.500000	44.84	54.00	9.16	H	14.0

802.11n-40MHz CH9 (1GHz-18GHz)

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
14550.000000	55.09	74.00	18.91	H	11.9
15053.000000	56.37	74.00	17.63	H	12.1
15741.500000	56.63	74.00	17.37	H	12.8
16115.000000	56.66	74.00	17.34	H	13.1
16744.500000	57.00	74.00	17.00	V	13.9
17384.000000	56.99	74.00	17.01	V	14.0

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
14521.500000	43.25	54.00	10.75	H	11.8
15126.500000	44.11	54.00	9.89	H	12.1
15754.500000	45.13	54.00	8.87	H	12.8
16207.000000	44.98	54.00	9.02	H	13.1
16772.500000	45.55	54.00	8.45	H	13.9
17285.000000	44.98	54.00	9.02	H	13.9

MIMO

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

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
14545.500000	55.12	74.00	18.88	H	11.9
14626.500000	55.53	74.00	18.47	V	11.9
15834.000000	57.00	74.00	17.00	V	12.8
16214.500000	56.47	74.00	17.53	H	13.1
16778.500000	57.08	74.00	16.92	V	13.9
17578.000000	57.01	74.00	16.99	H	14.0

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
14553.000000	43.33	54.00	10.67	V	11.9
15153.000000	43.91	54.00	10.09	H	12.1
15751.000000	45.26	54.00	8.74	V	12.8
16229.000000	45.07	54.00	8.93	V	13.1
16789.000000	45.78	54.00	8.22	H	13.9
17319.500000	45.18	54.00	8.82	H	13.9

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

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
14550.000000	54.78	74.00	19.22	H	11.9
15076.500000	55.56	74.00	18.44	V	12.1
15775.000000	56.85	74.00	17.15	V	12.8
16029.500000	56.68	74.00	17.32	H	13.0
16747.000000	57.00	74.00	17.00	H	13.9
17473.000000	57.19	74.00	16.81	V	14.0

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
14542.000000	43.34	54.00	10.66	H	11.9
15129.000000	43.93	54.00	10.07	H	12.1
15741.500000	45.08	54.00	8.92	H	12.8
16205.000000	45.11	54.00	8.89	H	13.1
16747.000000	45.44	54.00	8.56	H	13.9
17275.500000	45.01	54.00	8.99	H	13.9

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

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
14497.000000	54.96	74.00	19.04	H	11.8
15120.000000	55.63	74.00	18.37	H	12.1
15668.000000	56.92	74.00	17.08	H	12.6
16305.500000	56.87	74.00	17.13	V	13.3
16850.500000	57.45	74.00	16.55	H	13.9
17310.500000	56.60	74.00	17.40	V	13.9

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
14538.000000	43.48	54.00	10.52	V	11.9
15126.000000	44.14	54.00	9.86	V	12.1
15737.000000	45.29	54.00	8.71	H	12.8
16218.000000	45.33	54.00	8.67	H	13.1
16783.500000	45.69	54.00	8.31	H	13.9
17378.500000	45.30	54.00	8.70	V	14.0

802.11n-40MHz CH3 (1GHz-18GHz)

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
14550.000000	54.72	74.00	19.28	H	11.9
15164.000000	56.70	74.00	17.30	V	12.1
15724.500000	57.08	74.00	16.92	H	12.7
16315.500000	56.53	74.00	17.47	V	13.3
16776.000000	57.36	74.00	16.64	H	13.9
17338.500000	57.12	74.00	16.88	V	14.0

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
14549.500000	43.31	54.00	10.69	V	11.9
15136.500000	43.93	54.00	10.07	V	12.1
15768.500000	45.21	54.00	8.79	H	12.8
16197.000000	45.29	54.00	8.71	H	13.1
16786.000000	46.05	54.00	7.95	V	13.9
17425.500000	45.35	54.00	8.65	H	14.0

802.11n-40MHz CH6 (1GHz-18GHz)

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
14550.000000	54.72	74.00	19.28	H	11.9
15164.000000	56.70	74.00	17.30	V	12.1
15724.500000	57.08	74.00	16.92	H	12.7
16315.500000	56.53	74.00	17.47	V	13.3
16776.000000	57.36	74.00	16.64	H	13.9
17338.500000	57.12	74.00	16.88	V	14.0

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
14549.500000	43.31	54.00	10.69	V	11.9
15136.500000	43.93	54.00	10.07	V	12.1
15768.500000	45.21	54.00	8.79	H	12.8
16197.000000	45.29	54.00	8.71	H	13.1
16786.000000	46.05	54.00	7.95	V	13.9
17425.500000	45.35	54.00	8.65	H	14.0

802.11n-40MHz CH9 (1GHz-18GHz)

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
14148.500000	55.26	74.00	18.74	H	11.2
14773.000000	56.11	74.00	17.89	V	11.9
15780.500000	57.05	74.00	16.95	H	12.8
16206.000000	57.22	74.00	16.78	H	13.1
16778.500000	57.36	74.00	16.64	V	13.9
17293.000000	57.22	74.00	16.78	H	13.9

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
14551.000000	43.34	54.00	10.66	H	11.9
15152.500000	44.17	54.00	9.83	H	12.1
15759.500000	45.36	54.00	8.64	V	12.8
16220.500000	45.71	54.00	8.29	V	13.1
16766.500000	46.17	54.00	7.83	H	13.9
17350.000000	45.73	54.00	8.27	H	14.0



See ANNEX B 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= $P_{Mea} + A_{Rpl} = P_{Mea} + \text{Cable Loss} + \text{Antenna Factor}$

A.7 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 (dB μ V)	Result (dB μ V)	Conclusion
		Traffic	
0.15 to 0.5	66 to 56	Fig.141	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 (dB μ V)	Result (dB μ V)	Conclusion
		Traffic	
0.15 to 0.5	56 to 46	Fig.89	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

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)	Conclusion
		Idle	
0.15 to 0.5	66 to 56	Fig.142	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 (dB μ V)	Result (dB μ V)	Conclusion
		Idle	
0.15 to 0.5	56 to 46	Fig.90	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.

Test Condition:

Voltage (V)	Frequency (Hz)
240	60

Measurement Result and limit:

WLAN (Quasi-peak Limit)-AE1

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)	Conclusion
		Traffic	
0.16 to 0.5	66 to 56	Fig.143	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 (dB μ V)	Result (dB μ V)	Conclusion
		Traffic	
0.15 to 0.5	56 to 46	Fig.91	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

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)	Conclusion
		Idle	
0.16 to 0.5	66 to 56	Fig.144	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 (dB μ V)	Result (dB μ V)	Conclusion
		Idle	
0.15 to 0.5	56 to 46	Fig.92	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.

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement Result and limit:

WLAN (Quasi-peak Limit)-AE2

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)	Conclusion
		Traffic	
0.17 to 0.5	66 to 56	Fig.145	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 (dB μ V)	Result (dB μ V)	Conclusion
		Traffic	
0.15 to 0.5	56 to 46	Fig.93	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 (dB μ V)	Result (dB μ V)	Conclusion
		Idle	
0.17 to 0.5	66 to 56	Fig.146	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 (dB μ V)	Result (dB μ V)	Conclusion
		Idle	
0.15 to 0.5	56 to 46	Fig.94	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.

Test Condition:

Voltage (V)	Frequency (Hz)
240	60

Measurement Result and limit:

WLAN (Quasi-peak Limit)-AE2

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)	Conclusion
		Traffic	
0.180 to 0.5	66 to 56	Fig.147	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 (dB μ V)	Result (dB μ V)	Conclusion
		Traffic	
0.15 to 0.5	56 to 46	Fig.95	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 (dB μ V)	Result (dB μ V)	Conclusion
		Idle	
0.180 to 0.5	66 to 56	Fig.148	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 (dB μ V)	Result (dB μ V)	Conclusion
		Idle	
0.15 to 0.5	56 to 46	Fig.96	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 B for test graphs.

Conclusion: PASS

ANNEX B: TEST GRAPHS

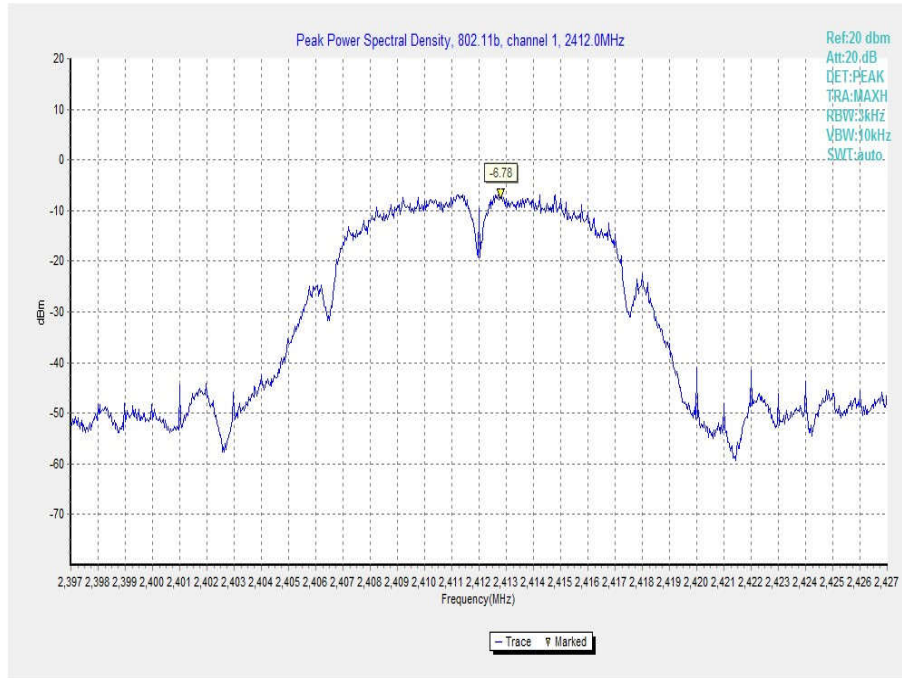


Fig.1 Power Spectral Density (802.11b, Ch 1)

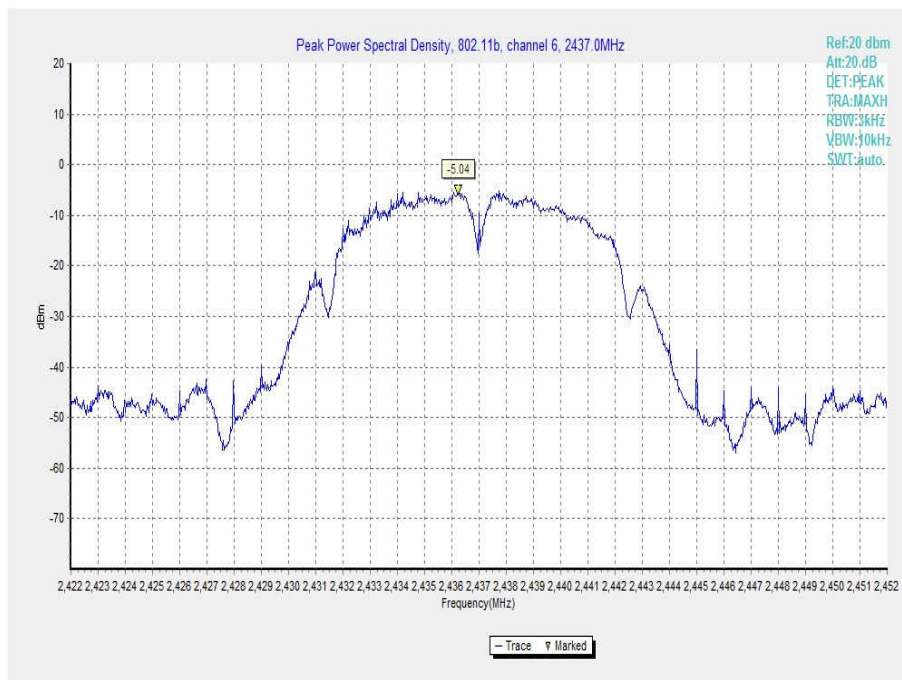


Fig.2 Power Spectral Density (802.11b, Ch 6)

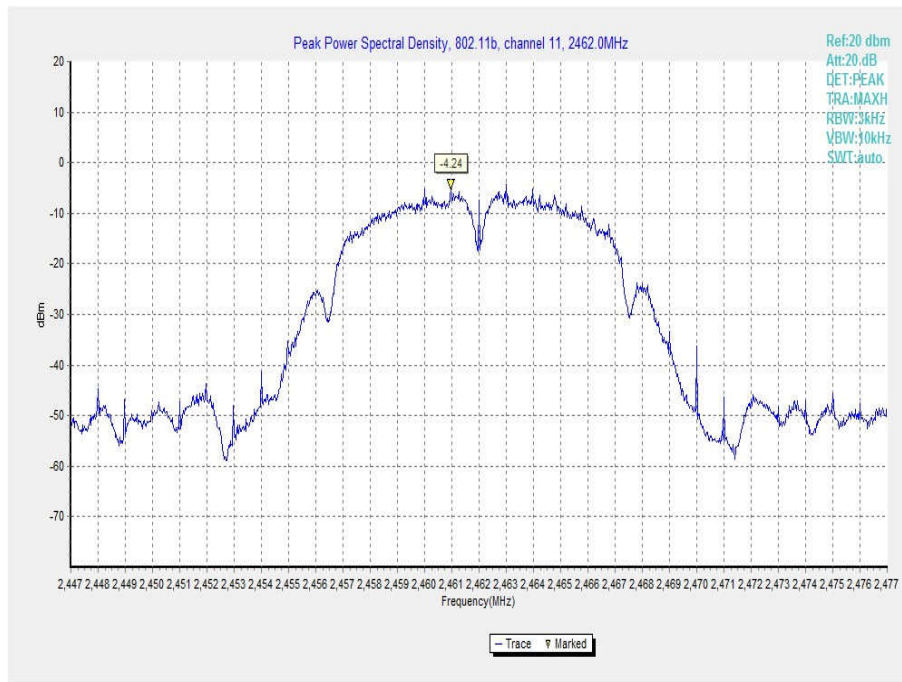


Fig.3 Power Spectral Density (802.11b, Ch 11)

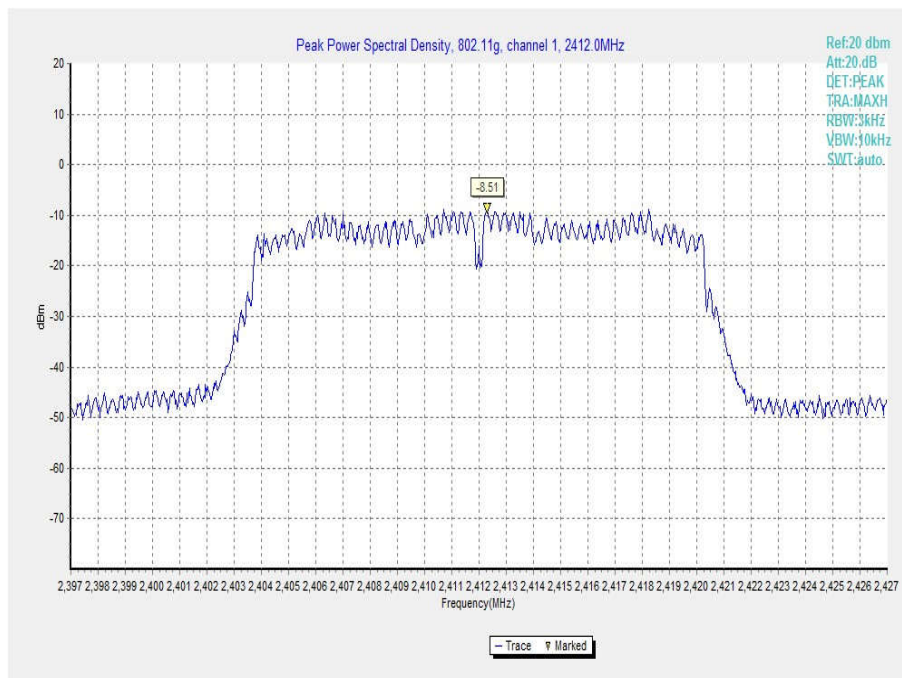


Fig.4 Power Spectral Density (802.11g, Ch 1)



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

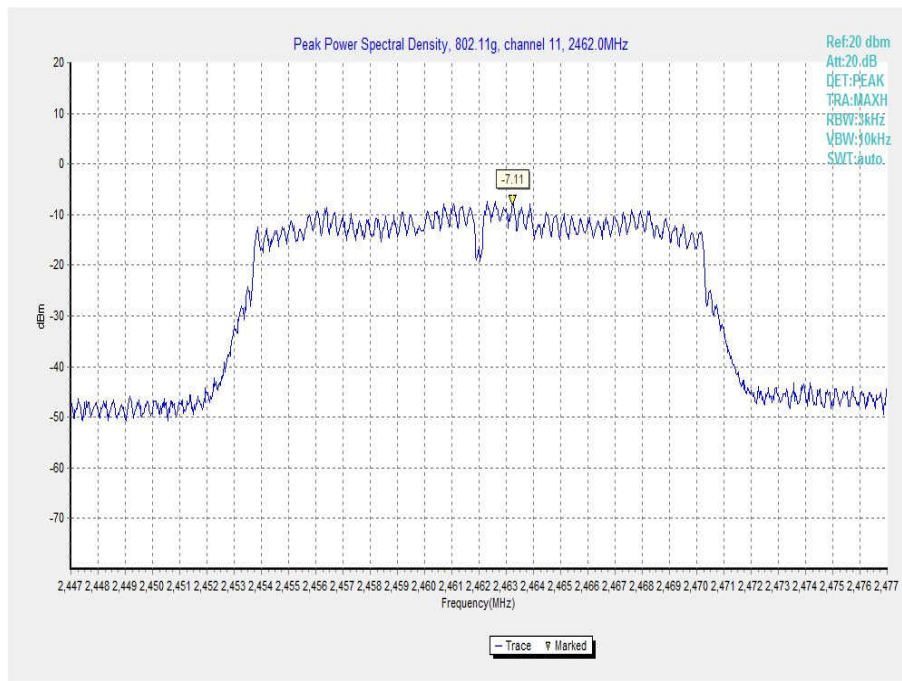


Fig.6 Power Spectral Density (802.11g, Ch 11)

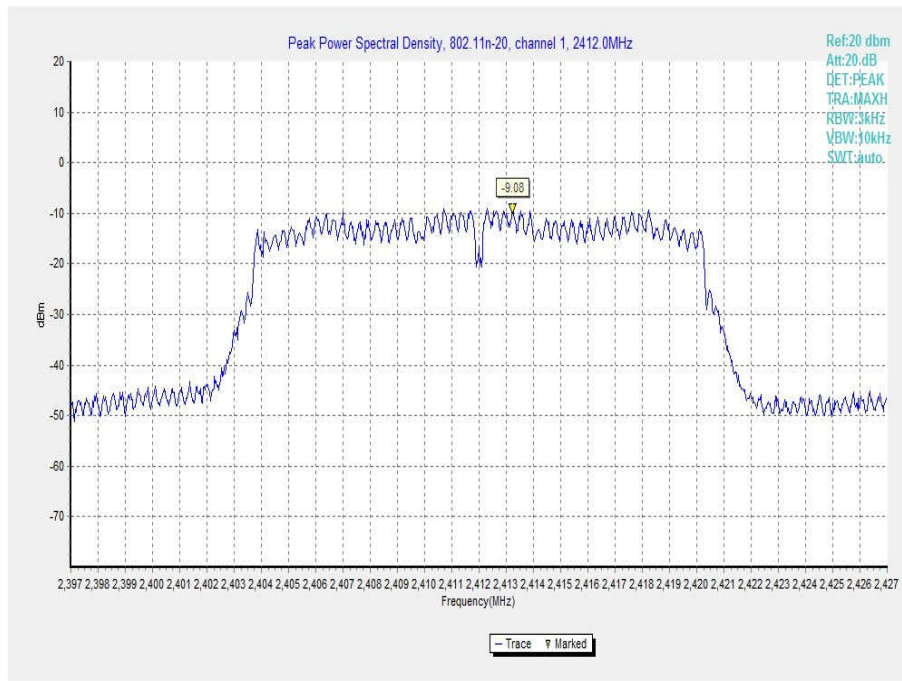


Fig.7 Power Spectral Density (802.11n-20MHz, Ch 1)



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

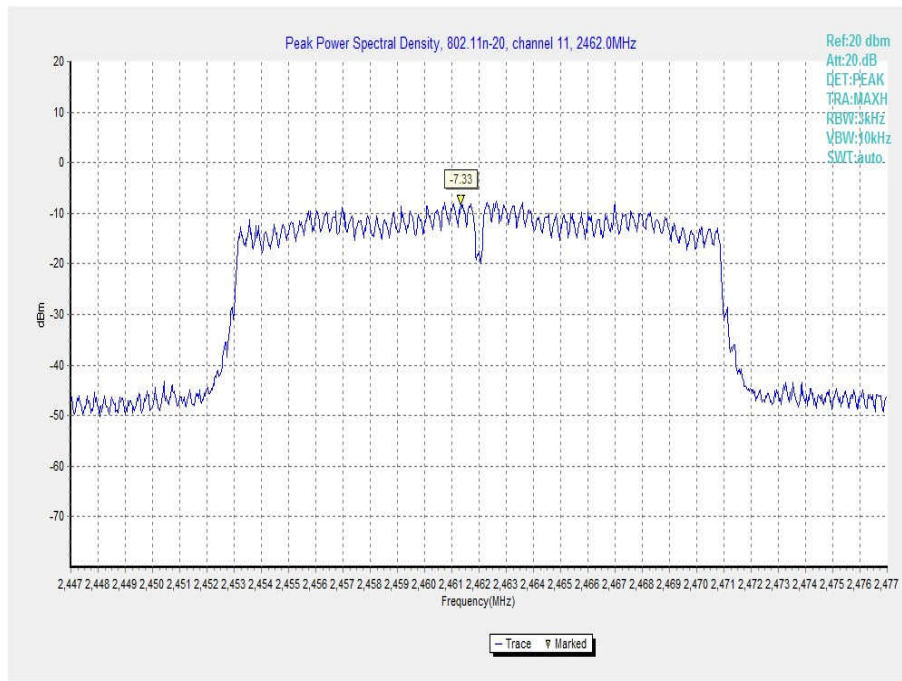


Fig.9 Power Spectral Density (802.11n-20MHz, Ch 11)

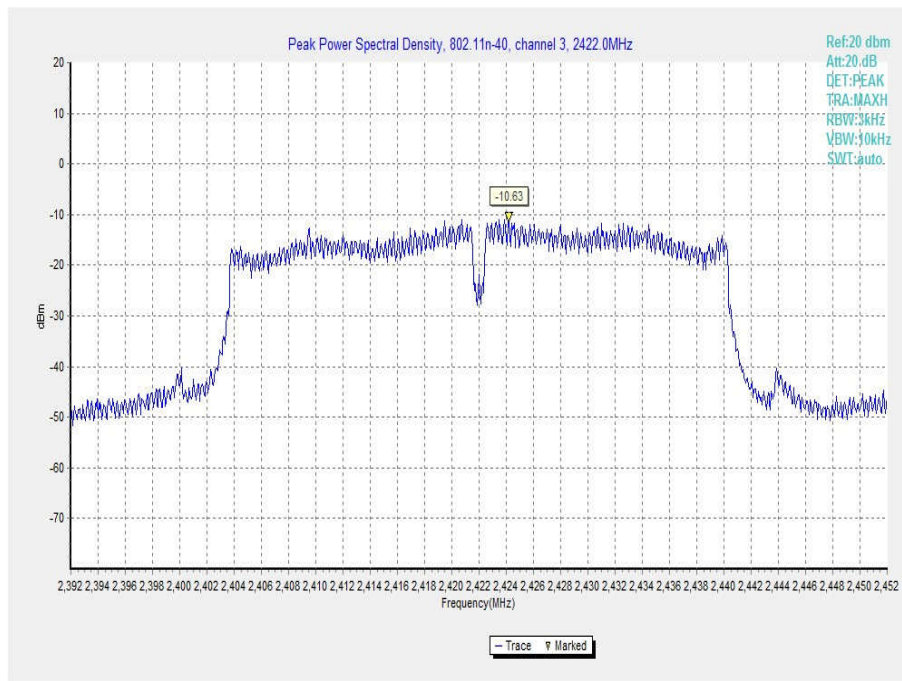


Fig.10 Power Spectral Density (802.11n-40MHz, Ch 3)

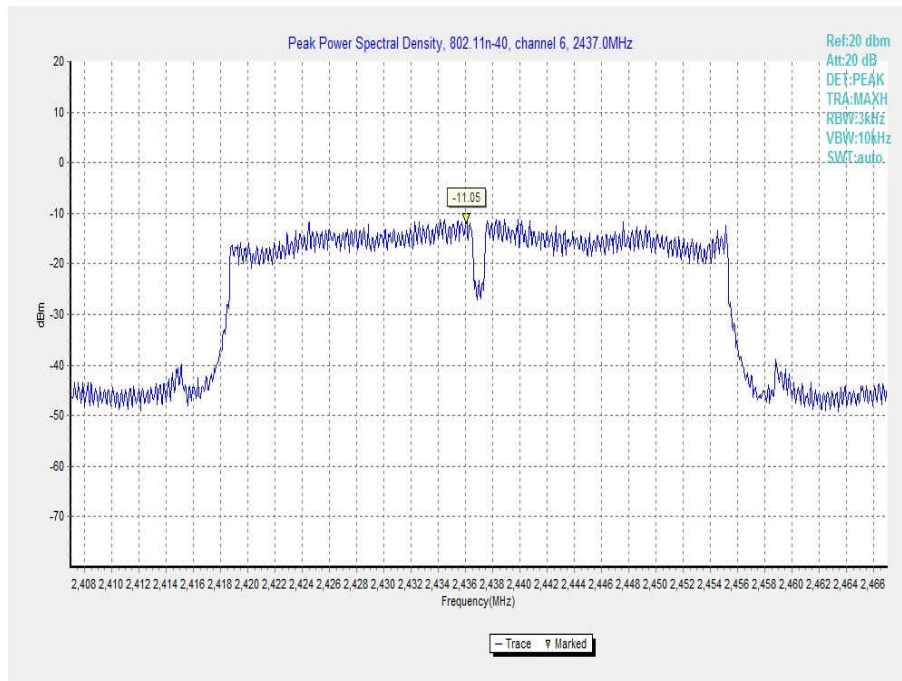


Fig.11 Power Spectral Density (802.11n-40MHz, Ch 6)

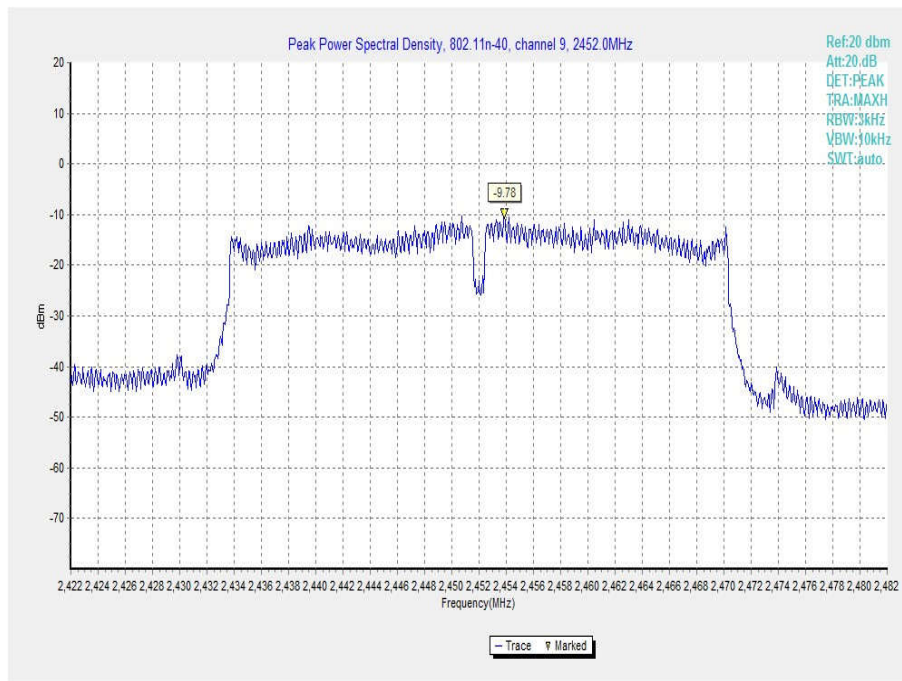


Fig.12 Power Spectral Density (802.11n-40MHz, Ch 9)

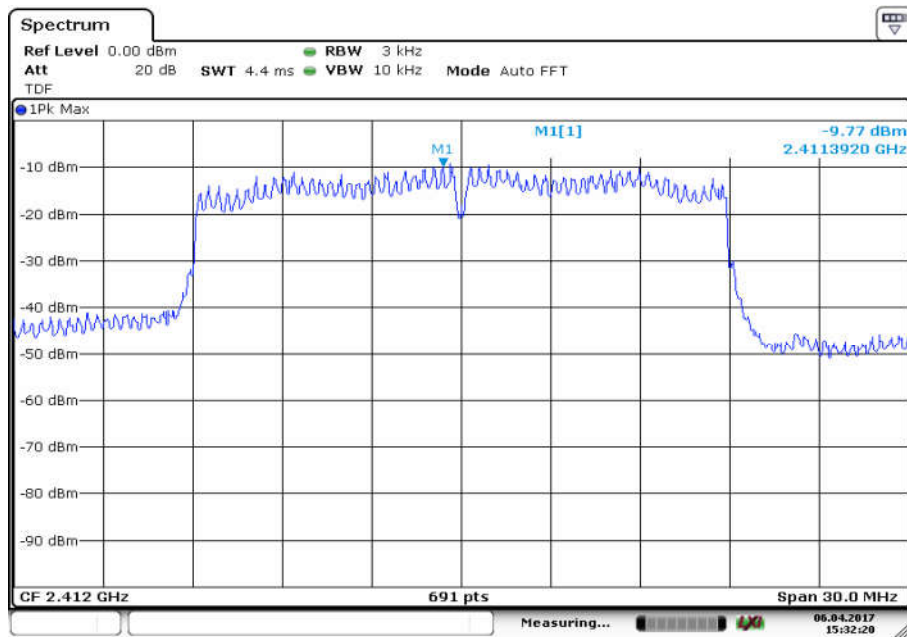


Fig.13 Power Spectral Density (802.11n-20MHz, Ch 1,MIMO Ant 1)

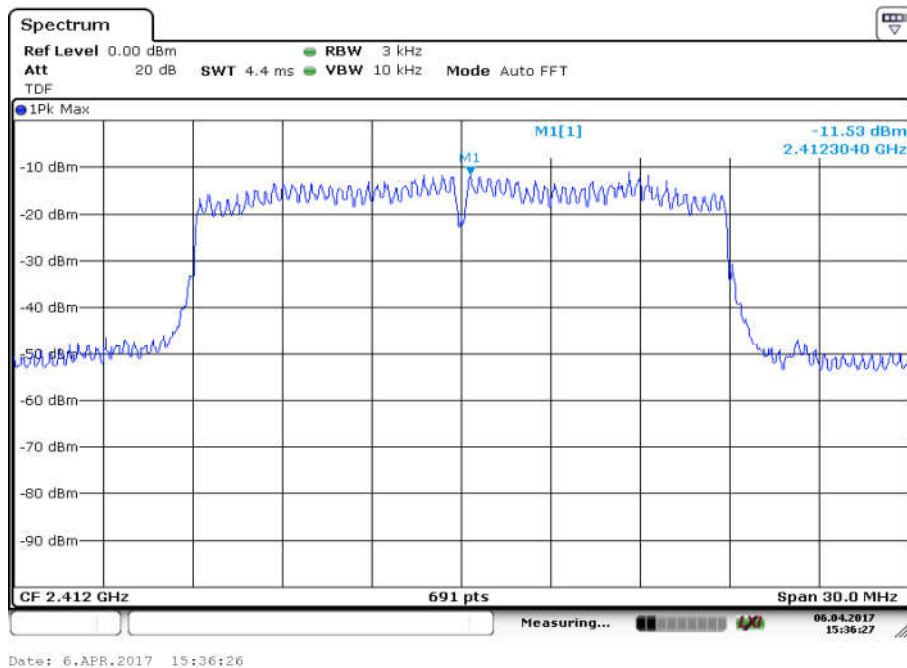


Fig.14 Power Spectral Density (802.11n-20MHz, Ch 1, MIMO Ant 2)

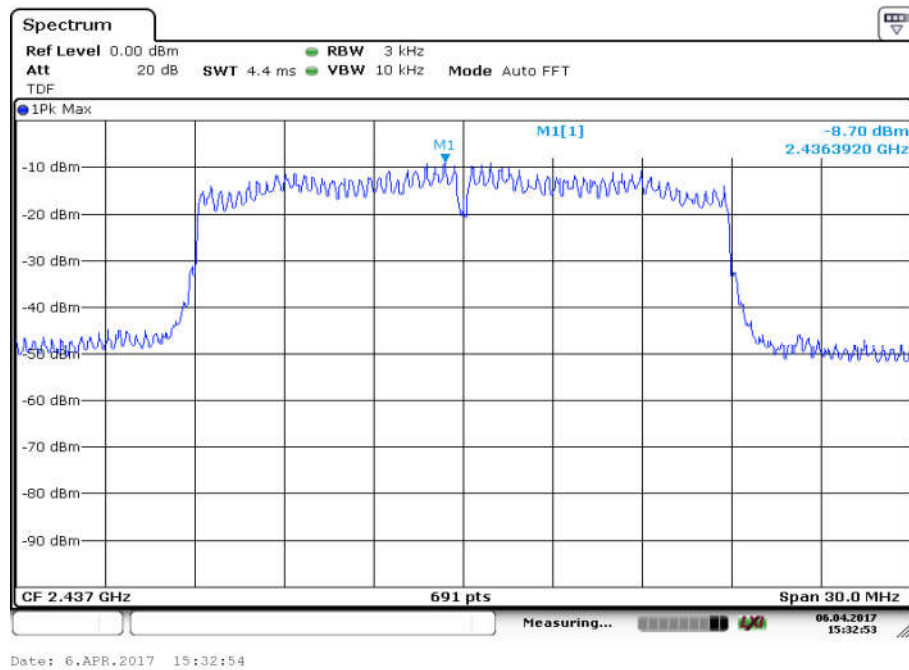


Fig.15 Power Spectral Density (802.11n-20MHz, Ch 6, MIMO Ant 1)

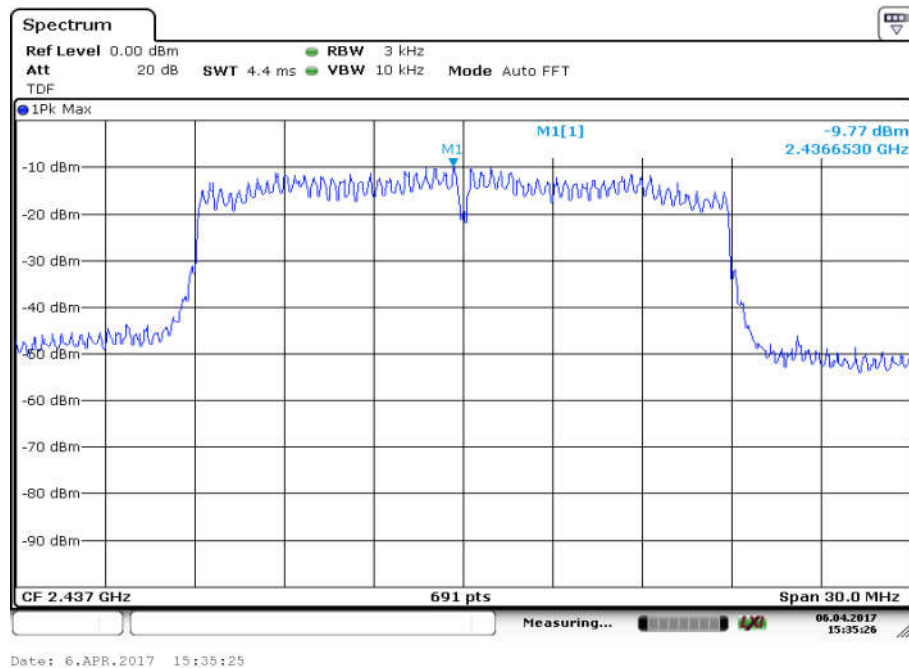


Fig.16 Power Spectral Density (802.11n-20MHz, Ch 6, MIMO Ant 2)

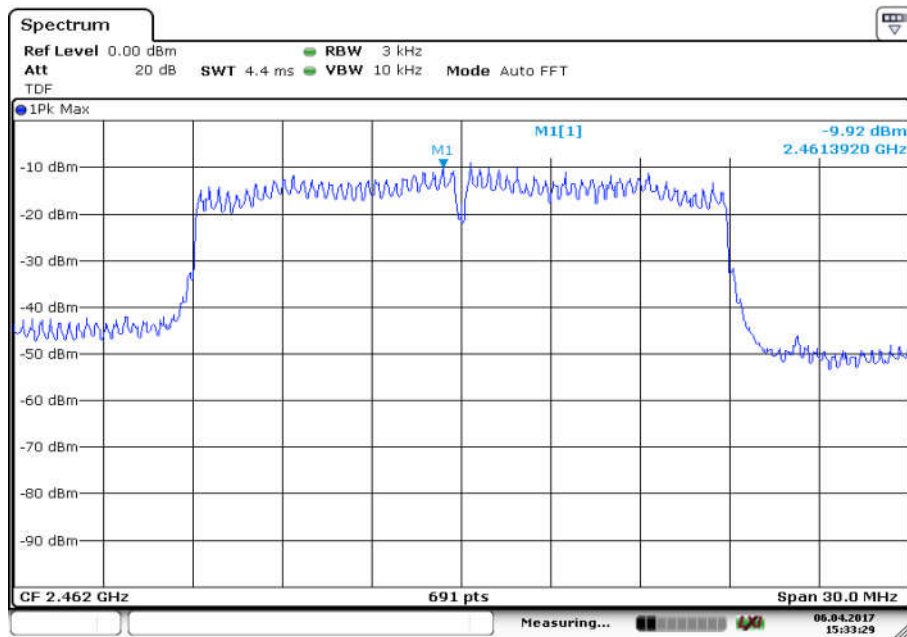


Fig.17 Power Spectral Density (802.11n-20MHz, Ch 11, MIMO Ant 1)

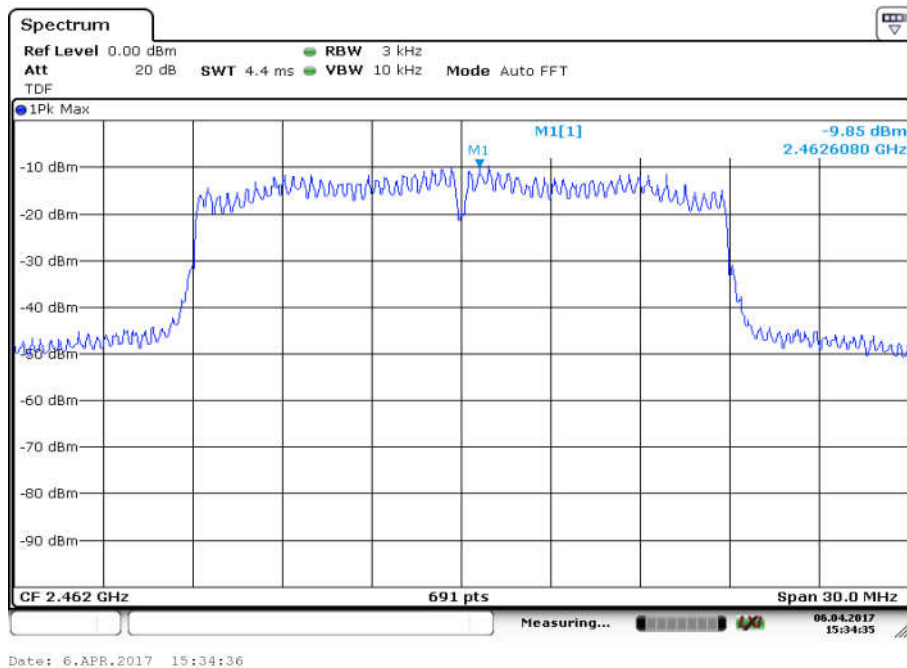


Fig.18 Power Spectral Density (802.11n-20MHz, Ch 11, MIMO Ant 2)

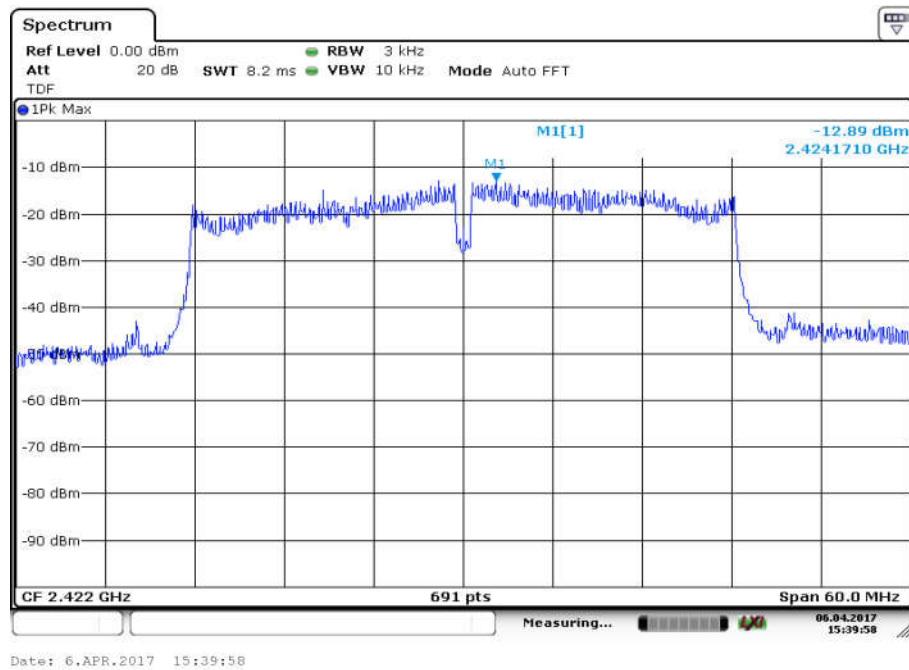


Fig.19 Power Spectral Density (802.11n-40MHz, Ch 3, MIMO Ant 1)

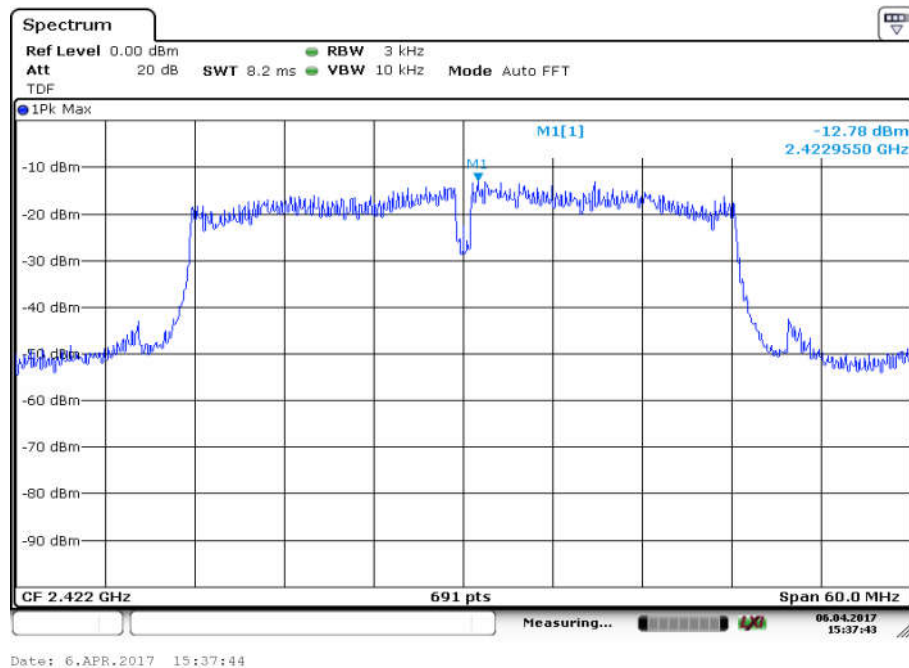


Fig.20 Power Spectral Density (802.11n-40MHz, Ch 3, MIMO Ant 2)

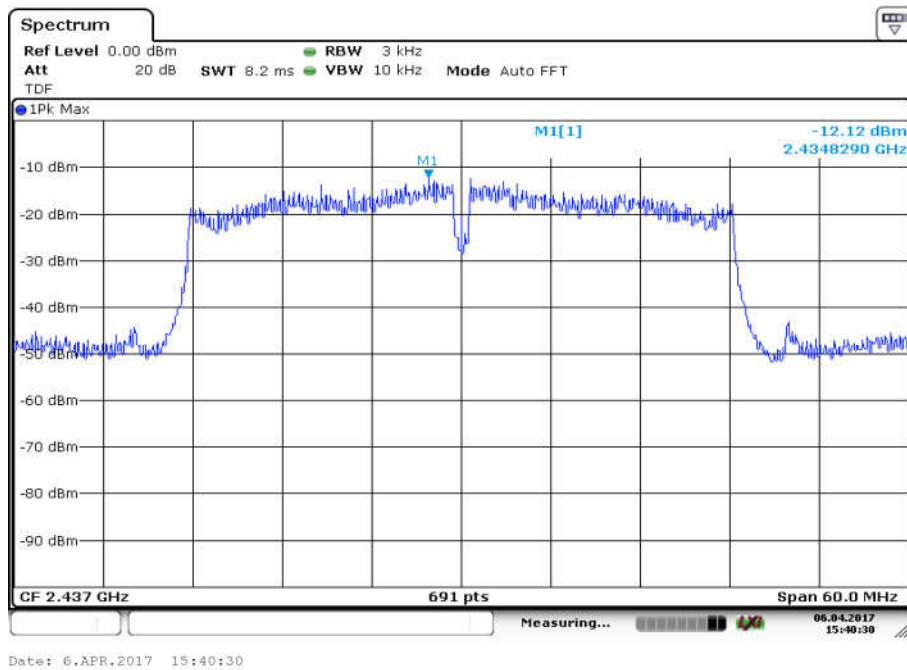


Fig.21 Power Spectral Density (802.11n-40MHz, Ch 6, MIMO Ant 1)

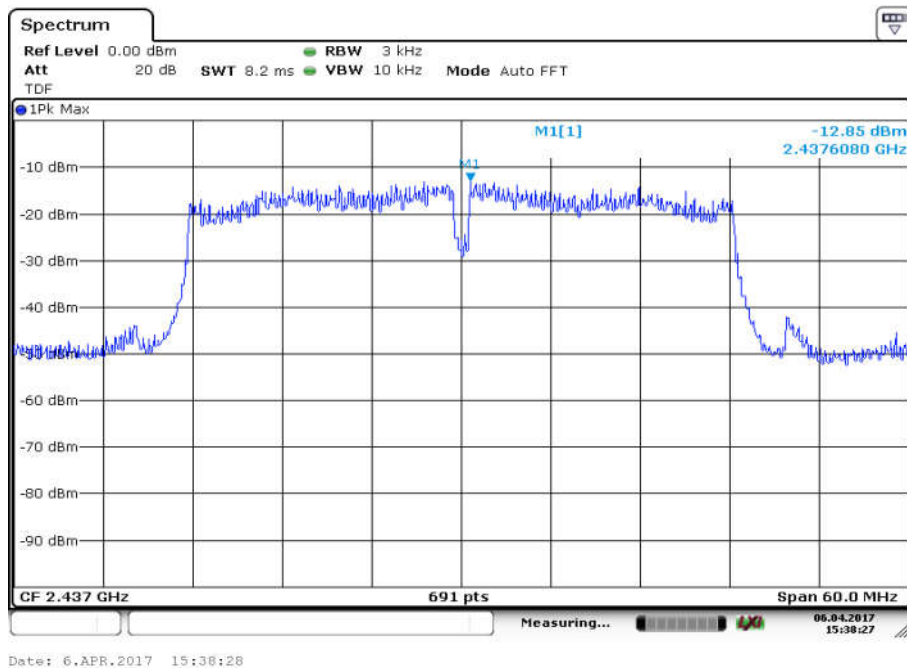
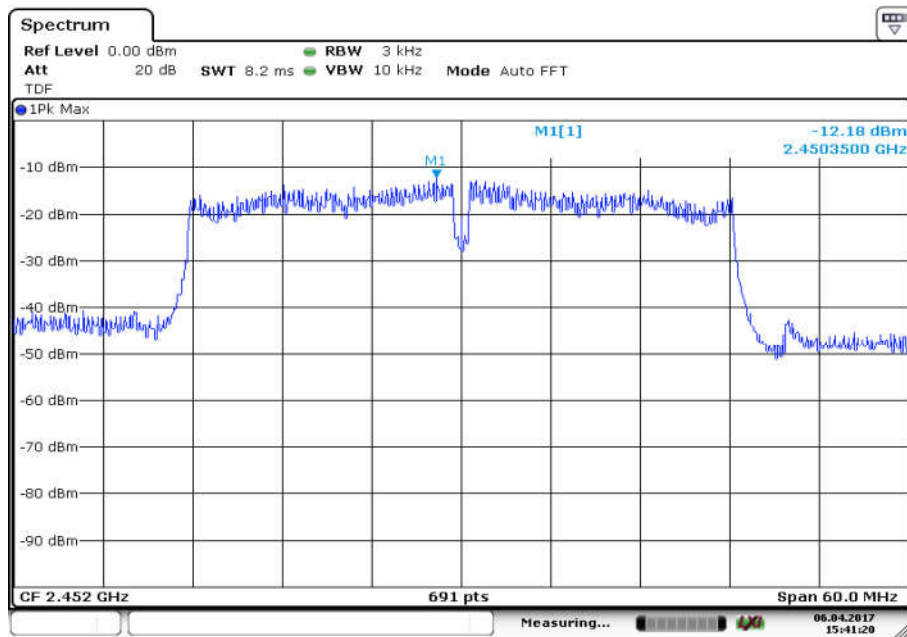
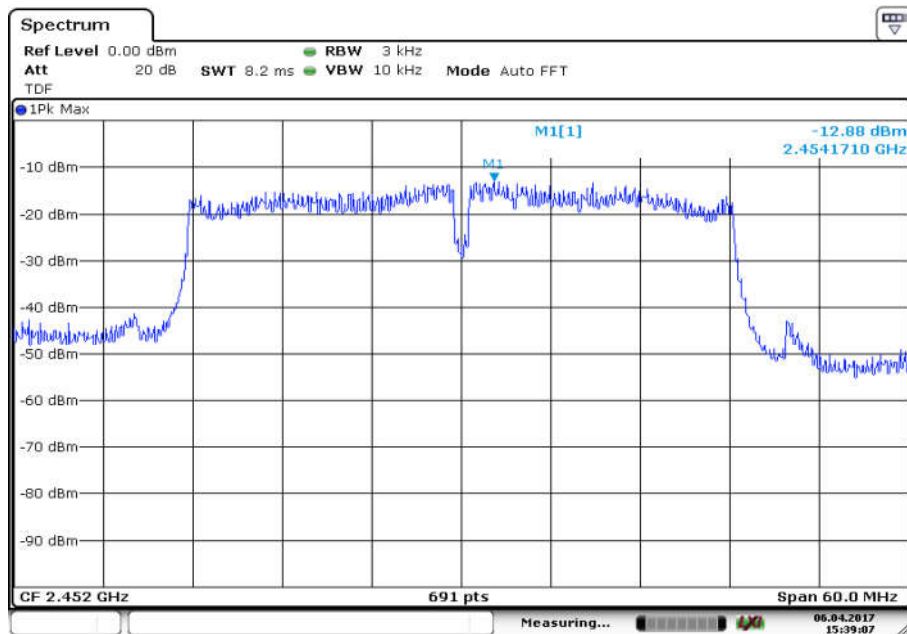


Fig.22 Power Spectral Density (802.11n-40MHz, Ch 6, MIMO Ant 2)



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Fig.23 Power Spectral Density (802.11n-40MHz, Ch 9, MIMO Ant 1)



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Fig.24 Power Spectral Density (802.11n-40MHz, Ch 9, MIMO Ant 2)

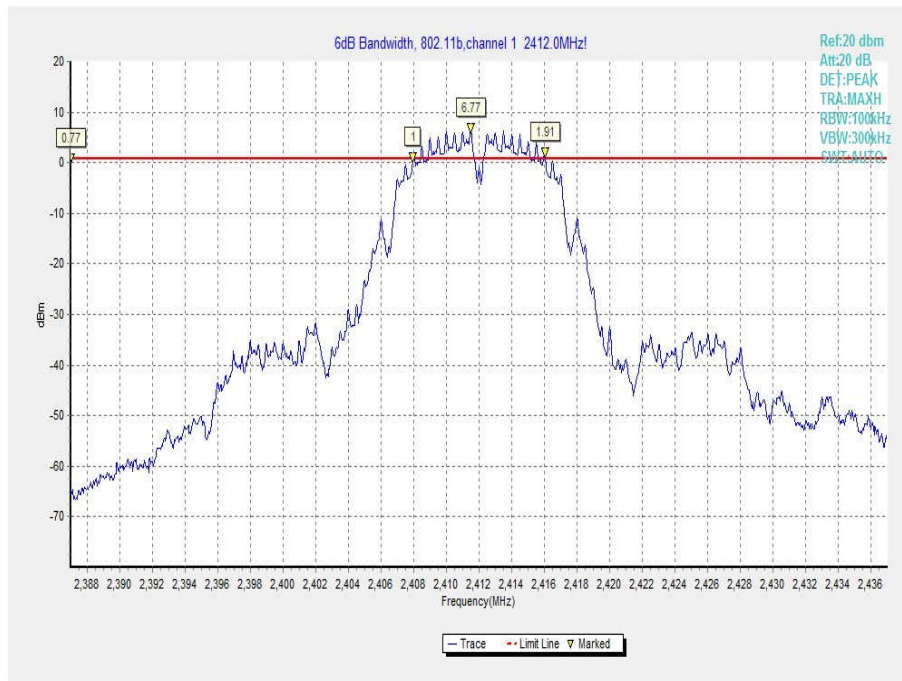


Fig.25 Occupied 6dB Bandwidth (802.11b, Ch 1)

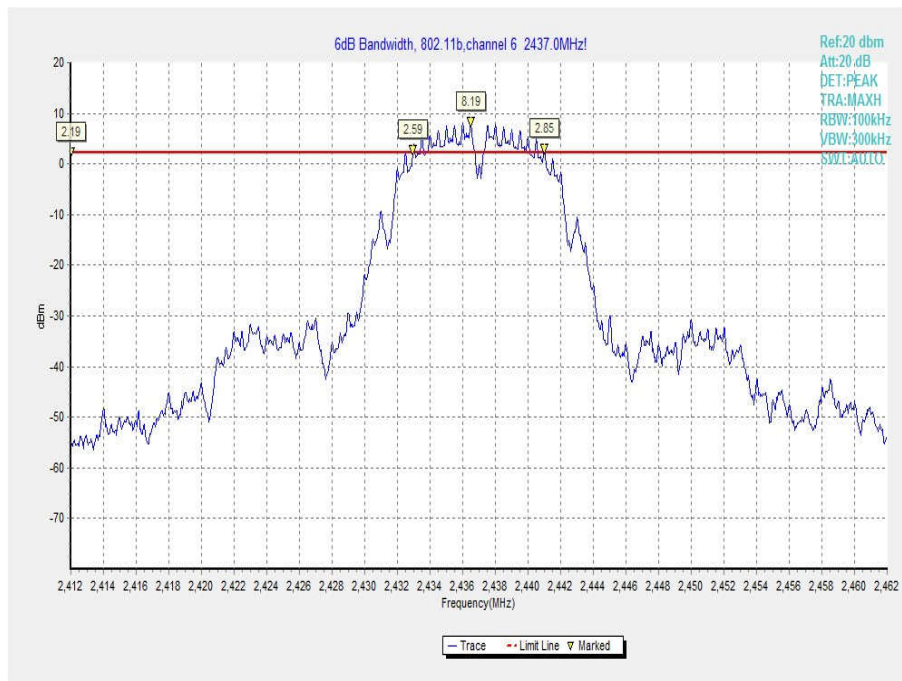


Fig.26 Occupied 6dB Bandwidth (802.11b, Ch 6)

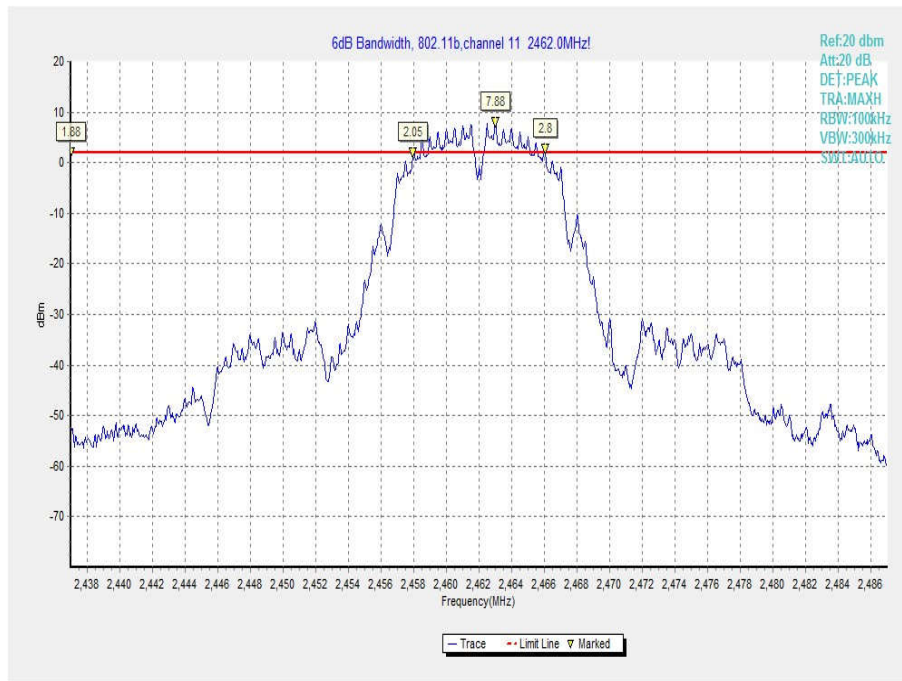


Fig.27 Occupied 6dB Bandwidth (802.11b, Ch 11)

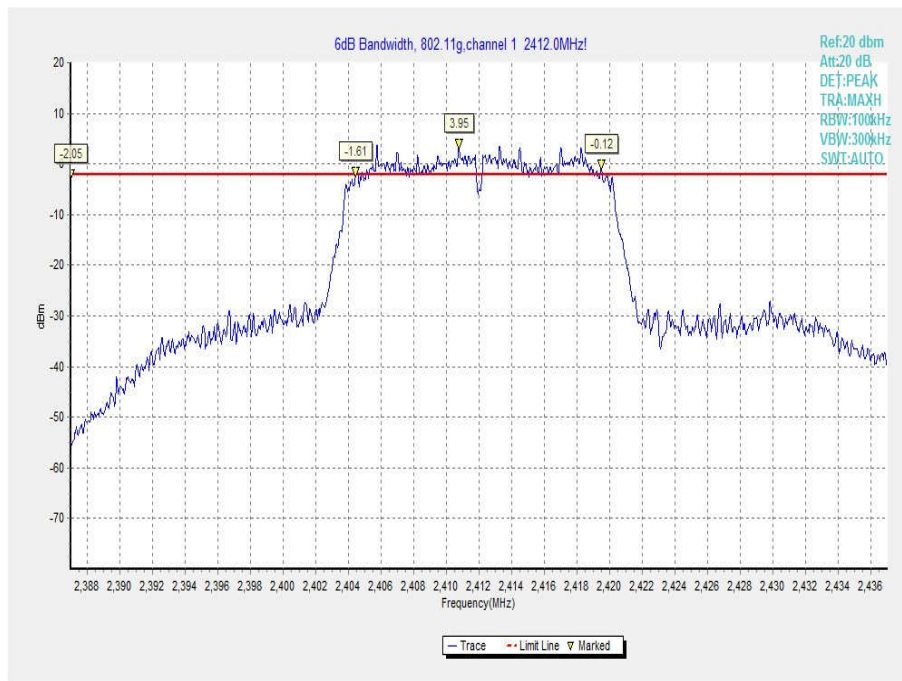


Fig.28 Occupied 6dB Bandwidth (802.11g, Ch 1)

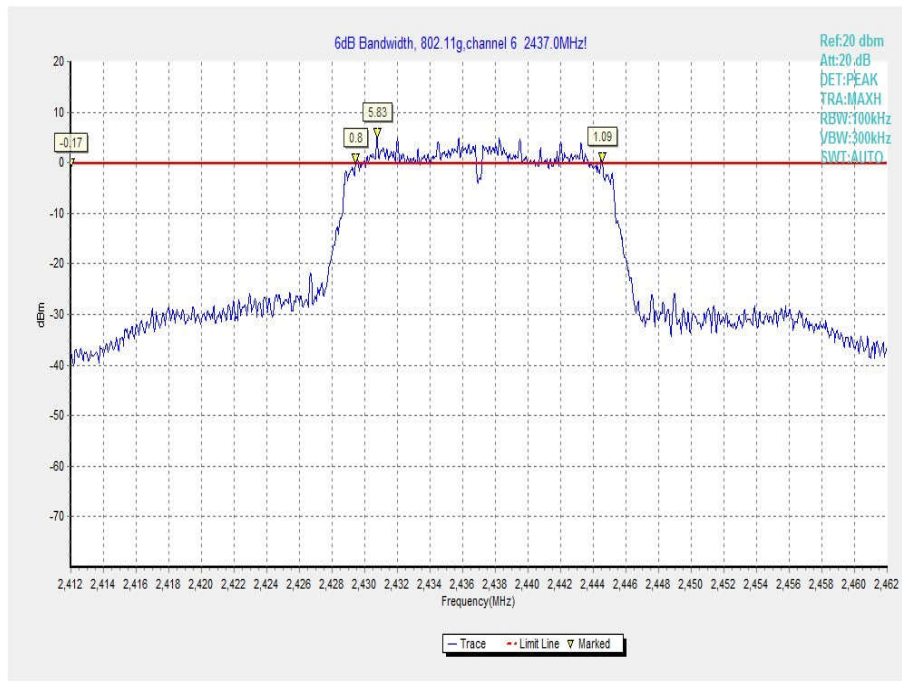


Fig.29 Occupied 6dB Bandwidth (802.11g, Ch 6)

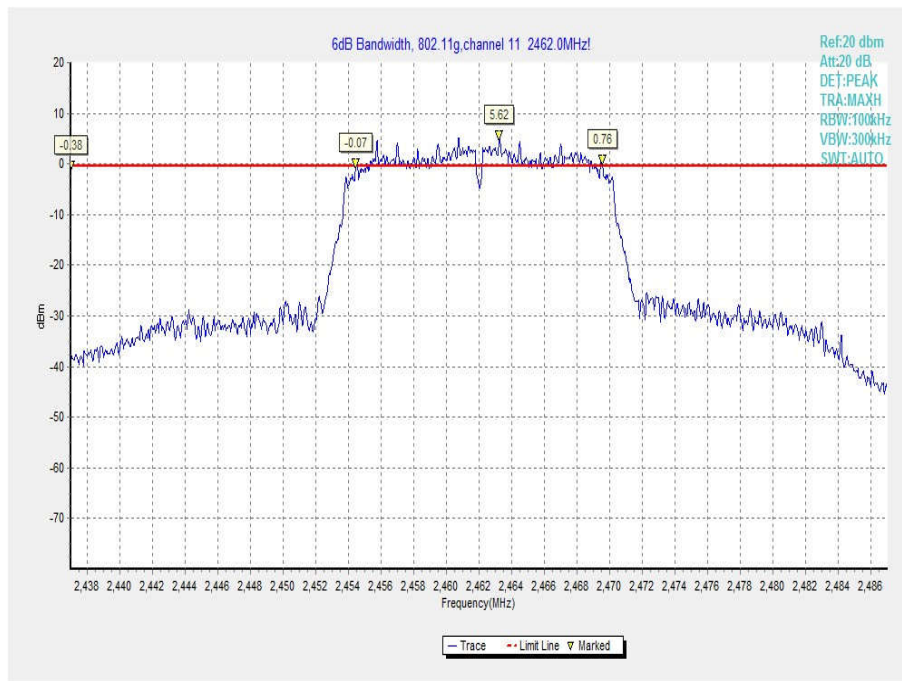


Fig.30 Occupied 6dB Bandwidth (802.11g, Ch 11)

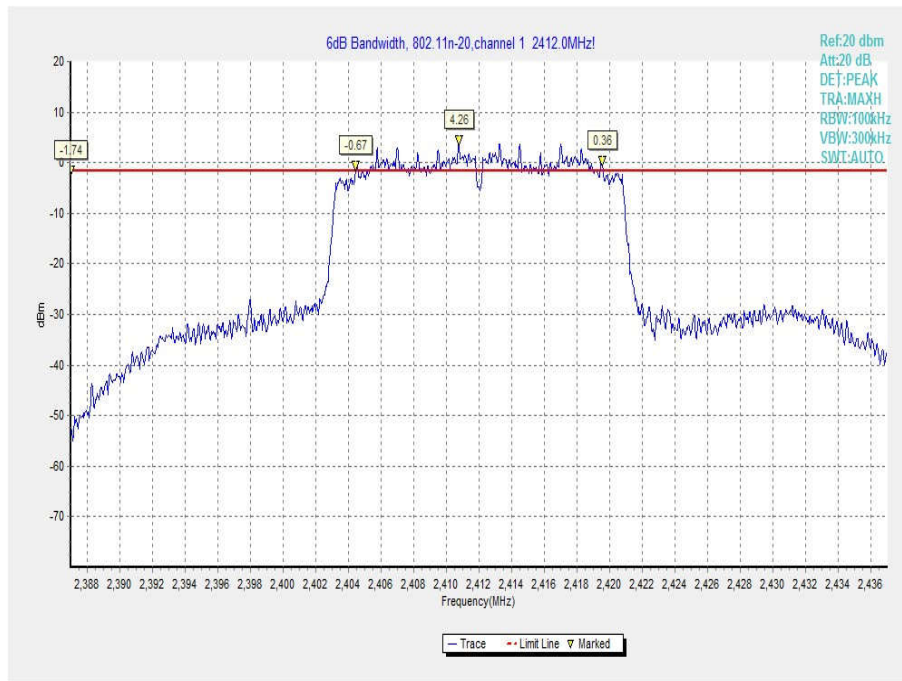


Fig.31 Occupied 6dB Bandwidth (802.11 n-20MHz, Ch 1)

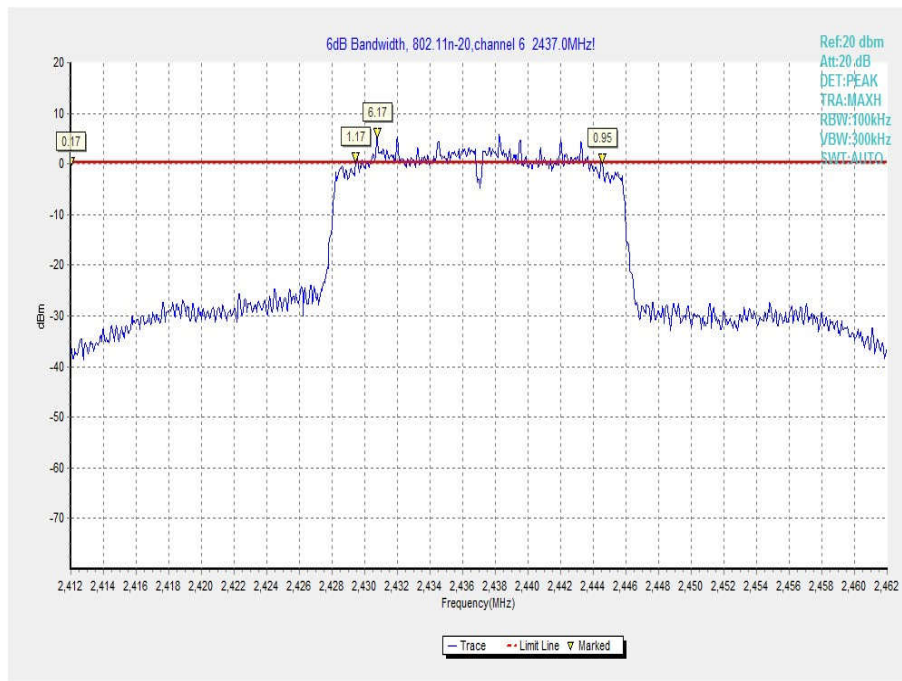


Fig.32 Occupied 6dB Bandwidth (802.11 n-20MHz, Ch 6)

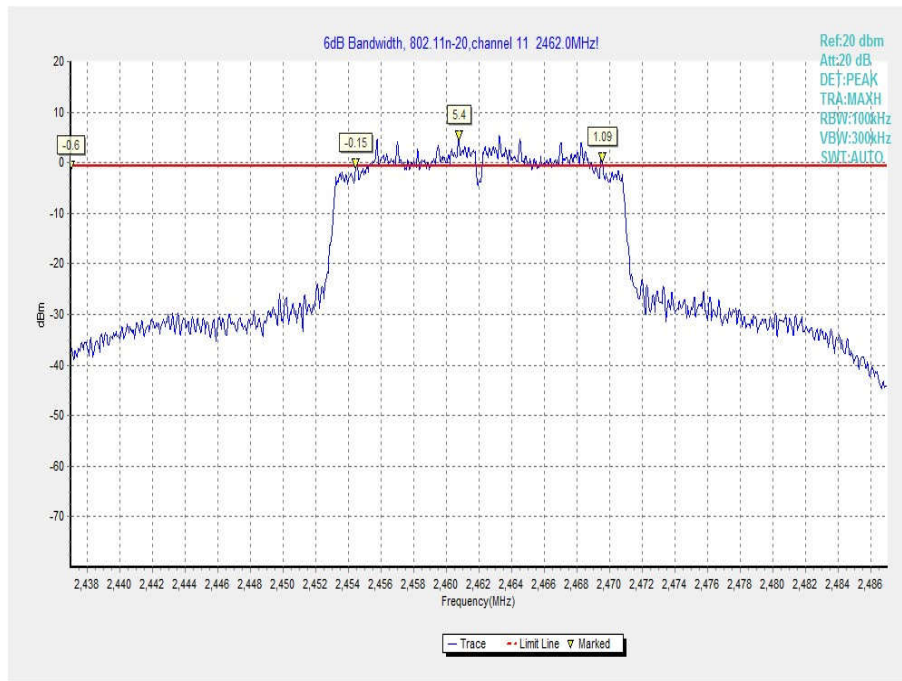


Fig.33 Occupied 6dB Bandwidth (802.11 n-20MHz, Ch 11)

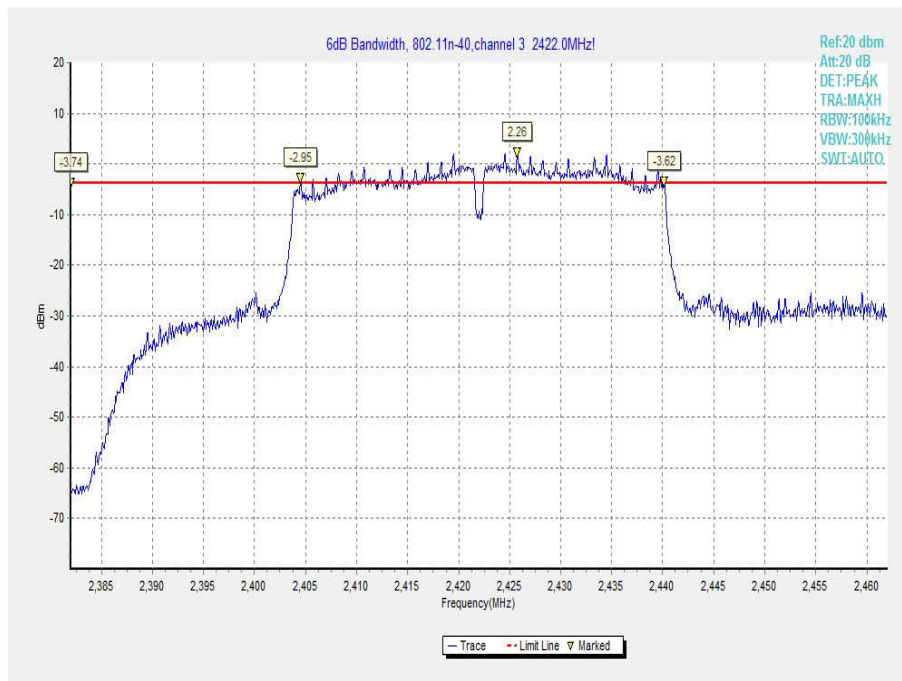


Fig.34 Occupied 6dB Bandwidth (802.11 n-40MHz, Ch 3)