



Registration
No.910917

TEST REPORT FOR WLAN TESTING

Report No.: SRTC2017-9004(F)-0054

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

Product Model: ZTE BLADE A320

Applicant: ZTE Corporation

Manufacturer: ZTE Corporation

Specification: FCC Part 15, Subpart C (October, 2016 edition)

FCC ID: SRQ-ZTEBLADEA320A

The State Radio_monitoring_center Testing Center (SRTC)

No.80 Beilishi Road Xicheng District Beijing, China

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1. GENERAL INFORMATION

1.1 Notes of the test report

The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written permission of The State Radio_monitoring_center Testing Center (SRTC).

The test results relate only to individual items of the samples which have been tested.

1.2 Information about the testing laboratory

Company:	The State Radio_monitoring_center Testing Center (SRTC)
Address:	No.80 Beilishi Road, Xicheng District
City:	Beijing
Country or Region:	P.R.China
Contacted person:	Liu jia
Tel:	+86 10 5799 6181
Fax:	+86 10 5799 6288
Email:	liujiaf@srtc.org.cn

1.3 Applicant's details

Company:	ZTE Corporation
Address:	ZTE Plaza, #55 Keji Road South, Hi-Tech, Industrial Park, Nanshan District,Guangdong
City:	Shenzhen
Country or Region:	P.R.China
Grantee Code:	SRQ
Contacted person:	Min Zhang
Tel:	021-68897867
Fax:	021-50801070
Email:	zhang.min13@zte.com.cn

1.4 Manufacturer's details

Company:	ZTE Corporation
Address:	ZTE Plaza, #55 Keji Road South, Hi-Tech, Industrial Park, Nanshan District,Guangdong
City:	Shenzhen
Country or Region:	P.R.China
Contacted person:	Min Zhang
Tel:	021-68897867
Fax:	021-50801070
Email:	zhang.min13@zte.com.cn

1.5 Test Environment

Date of Receipt of test sample at SRTC:	2017.03.27
Testing Start Date:	2017.03.27
Testing End Date:	2017.04.05

Environmental Data:	Temperature (°C)	Humidity (%)
Ambient	25	38
Maximum Extreme	55	80
Minimum Extreme	-10	---

Normal Supply Voltage (V d.c.):	3.80
Maximum Extreme Supply Voltage (V d.c.):	4.20
Minimum Extreme Supply Voltage (V d.c.):	3.50

2 DESCRIPTION OF THE DEVICE UNDER TEST

2.1 Final Equipment Build Status

Frequency Range	2.4GHz~2.4835GHz
Number of Channel	11
Modulation Type	DBPSK/DQPSK/CCK/BPSK/QPSK/16QAM/64QAM
Duplex Mode	TDD
Channel Spacing	5MHz
Data Rate	1Mbps/2Mbps/5.5Mbps/11Mbps/6Mbps/9Mbps/12Mbps /18Mbps/24Mbps/36Mbps/48Mbps/54Mbps/6.5Mbps /13.0Mbps/13.5Mbps/19.5Mbps/26.0Mbps/27.0Mbps /39.0Mbps/40.5Mbps/52.0Mbps/58.5Mbps/65Mbps /81.0Mbps/108.0Mbps/121.5Mbps/135.0Mbps
Antenna Type	Fixed Internal
Power Supply	Battery or Charger
HW Version	u4jB
SW Version	FLOW_CW_BA320_V1.0
IMEI	863916030015005

2.2 Support Equipment

The following support equipment was used to exercise the DUT during testing:

Equipment	Battery 1
Manufacturer	Zhongshan Tianmao Battery Co.,Ltd
Model Number	Li3822T43P3h716043
Serial Number	----

Equipment	Battery 2
Manufacturer	Zhengzhou BAK Battery Co.,Ltd
Model Number	Li3822T43P3h716043
Serial Number	----

As the information described above, there are one models of battery manufactured by two companies. The relevant tests have been performed in order to verify in which combination case (EUT exercised by one models of battery manufactured by two companies) the EUT would have the worst features. So all the tests shown in this test report are performed when the EUT exercised by the battery 1 manufactured by Zhongshan Tianmao Battery Co.,Ltd.

Note: The original test data derive from the report: SRTC2017-9004(F)-0020.

3 REFERENCE SPECIFICATION

Specificatio n	Version	Title
15.35	Mar. 6, 2014	Measurement detector functions and bandwidths.
15.209	Oct. 30, 1997	Radiated emission limits; general requirements.
15.247	May 1, 2014	Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

4 KEY TO NOTES AND RESULT CODES

The following are the definition of the test result.

Code	Meaning
PASS	Test result shows that the requirements of the relevant specification have been met.
FAIL	Test result shows that the requirements of the relevant specification have not been met.
N/T	Test case is not tested.
NTC	Nominal voltage, Normal Temperature
HV	High voltage, Normal Temperature
LV	Low voltage, Normal Temperature
HTHV	high voltage, High Temperature
LTHV	High voltage, Low Temperature
HTLV	Low voltage, High Temperature
LTLV	Low voltage, Low Temperature

5 RESULT SUMMARY

No.	Test case	FCC reference	Verdict
1	Peak Power Output	15.247(b)(3)	Pass
2	Occupied Bandwidth	15.247(a)(2)	Pass
3	Transmitter Power Spectral Density	15.247(e)	Pass
4	Conducted Out of band emission measurement	15.247(d)	Pass
5	Spurious Radiated Emissions	15.247(d)/15.35(b)/15.209	Pass
6	AC Power line Conducted Emission	15.207	Pass

This Test Report Is Issued by: Mr. Peng Zhen 	Checked by: Ms. Liu Jia 
Tested by: Mr. Li Bin 	Issued date: 20170609

6 TEST RESULT

6.1 Peak Power Output

6.1.1 Ambient condition

Temperature	Relative humidity	Pressure
22°C	40%	101.5kPa

6.1.2 Test Description

A transmitter antenna terminal of EUT is connected to the power meter. Measurement is made using a broadband power meter capable of making peak and average measurements while the EUT is operating at its maximum duty cycle (>98%), at maximum power, and at the appropriate frequencies.

6.1.3 Test limit

FCC Part15.247(b)(3)

The maximum permissible conducted output power is 1 Watt.

Used conversion factor: Limit (dBm) = 10 log (Limit (W)/1mW)

==> Maximum Output Power: 30.0 dBm

6.1.4 Test Procedure Used

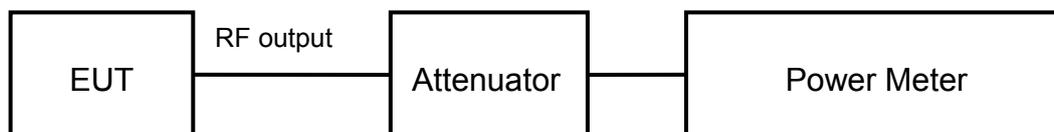
KDB 558074 D01 v03r02 – Section 9.1.2

6.1.5 Test Settings

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

6.1.6 Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



6.1.7 Test result

The test results are shown in Appendix A .

6.2 Occupied Bandwidth

6.2.1 Ambient condition

Temperature	Relative humidity	Pressure
22°C	40%	101.5kPa

6.2.2 Test Description

The bandwidth at 6dB down from the highest in-band spectral density is measured with a spectrum analyzer and Bluetooth test set via a power splitter with a known loss. Which connected to the transmitter antenna terminal of the EUT while the EUT is operating at maximum power and at the appropriate frequencies. All modes of operation were investigated and the worst case configuration results are reported in this section.

6.2.3 Test limit

FCC Part15.247(a)(2)

The minimum permissible 6dB bandwidth is 500 kHz

6.2.4 Test Procedure Used

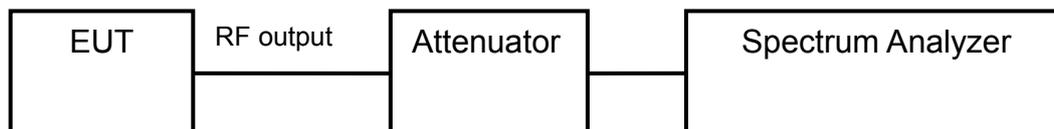
KDB 558074 D01 v03r02 – Section 8.1 Option 1

6.2.5 Test Settings

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.2.6 Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



6.2.7 Test result

The test results are shown in Appendix A.

6.3 Transmitter Power Spectral Density

6.3.1 Ambient condition

Temperature	Relative humidity	Pressure
22°C	40%	101.5kPa

6.3.2 Test Description

The peak power density is measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle (>98%), at maximum power, and at the appropriate frequencies. All data rates were investigated and the worst case configuration results are reported in this section.

6.3.3 Test limit

FCC Part15.247(e)

The maximum permissible power spectral density is 8.0 dBm in any 3 kHz band.

6.3.4 Test Procedure Used

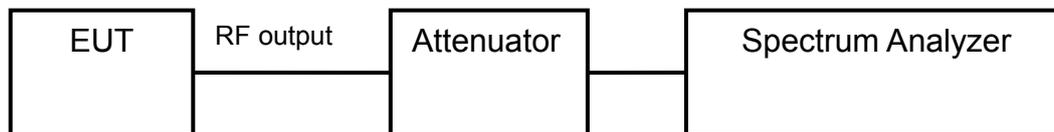
KDB 558074 D01 v03r02 Section 10.2.

6.3.5 Test Settings

- Set analyzer center frequency to DTS channel center frequency.
- Set the span to 1.5 times the DTS bandwidth.
- Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- Set the VBW $\geq 3 \times \text{RBW}$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.
- If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

6.3.6 Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



6.3.7 Test result

The test results are shown in Appendix A.

6.4 Conducted Out of band emission measurement

6.4.1 Ambient condition

Temperature	Relative humidity	Pressure
22°C	40%	101.5kPa

6.4.2 Test Description

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle (>98%), at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration.

6.4.3 Test limit

FCC Part 15.247(d)

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100 kHz bandwidth.

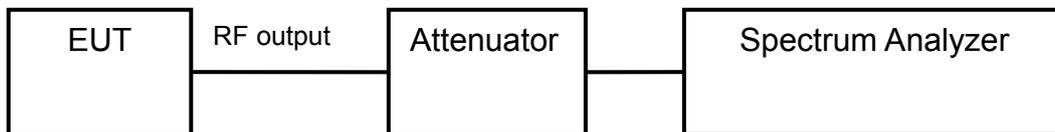
6.4.4 Test Procedure Used

KDB 558074 D01 v03r02 Section 11.3

6.4.5 Test Settings

- Set the center frequency and span to encompass frequency range to be measured.
- Set the RBW = 100kHz.
- Set the VBW \geq 300kHz.
- Detector = peak.
- Set span to encompass the spectrum to be examined
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.

6.4.6 Test Setup



6.4.7 Test result

The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement.

The test results are shown in Appendix A.

6.5 Spurious Radiated Emissions

6.5.1 Ambient condition

Temperature	Relative humidity	Pressure
20.8°C	36.5%	100.9kPa

6.5.2 Test Description

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at maximum power and at the appropriate frequencies. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

6.5.3 Test limit

FCC Part15.205, 15.209, 15.247(d);

In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)). All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in below Table per Section 15.209.

Frequency [MHz]	Field strength [$\mu\text{V/m}$]	Measured Distance [meters]
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Radiated Limits

FCC Part15.35(b):

There is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit

Used conversion factor: Limit (dB $\mu\text{V/m}$) = 20 log (Limit ($\mu\text{V/m}$)/1 $\mu\text{V/m}$)

Frequency [MHz]	Detector	Unit (dB $\mu\text{V/m}$)
30~88	Quasi-peak	40.0
88~216	Quasi-peak	43.5
216~960	Quasi-peak	46.0
960~1000	Quasi-peak	54.0
1000~5th harmonic of the highest frequency or 40GHz, whichever is lower	Average	54.0
	Peak	74.0

Conversion Radiated limits

6.5.4 Test Procedure Used

KDB 558074 D01 v03r02 – Section 12.2.5 (average power measurements)

KDB 558074 D01 v03r02 – Section 12.2.4 (peak power measurements)

6.5.5 Test Settings

Average Field Strength Measurements per Section 12.2.5.1 of KDB 558074 v03r02

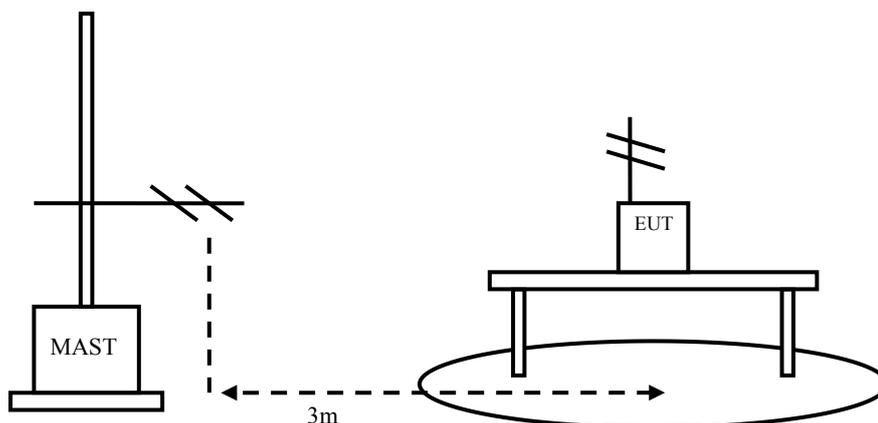
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be $> 2 \times \text{span}/\text{RBW}$)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces

Peak Field Strength Measurements per Section 12.2.4 of KDB 558074 v03r02

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

6.5.6 Test Setup

The EUT and measurement equipment were set up as shown in the diagram below



The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna. The radiated emissions measurements were made in a typical installation configuration. Then start the test software ES-K1. Sweep the whole frequency band through the range from 30MHz to 1GHz or above, using receive log period antenna

HL562 or Ridge horn antenna HF906.

During the test, the antenna height and EUT azimuth were varied in order to identify the maximum level of emission from the EUT. The height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turn table shall be rotated from 0 to 360 degrees. The measurements shall be repeated with orthogonal polarization of the test antenna. The results shall be showed the worst case of the three orthogonal axes.

The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing.

6.5.7 Test result

The test results are shown in Appendix B.

6.6 AC Power line Conducted Emission

6.6.1 Ambient condition

Temperature	Relative humidity	Pressure
20.8°C	36.5%	100.9kPa

6.6.2 Test limit

FCC Part15.207

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

The measurement is made according to ANSI C63.4-2014

6.6.3 Test result

The test results are shown in Appendix B.

7 MEASUREMENT UNCERTAINTIES

Items	Uncertainty	
Occupied Bandwidth	3kHz	
Peak power output	0.67dB	
Band edge compliance	1.20dB	
Transmitter Power Spectral Density	0.75dB	
Spurious emissions	30MHz~1GHz	2.83dB
	1GHz~12.75GHz	2.50dB
	12.75GHz~25GHz	2.75dB

8 TEST EQUIPMENTS

No.	Name/Model	Manufacturer	S/N	Cal Due date
1.	Spectrum Analyzer FSV	ROHDE&SCHWARZ	101065	2017.08.20
2.	Attenuation 6810.17.B	HUBER+SUHNER	768710	2017.08.20
3.	Cable 104EA	SUCOFLEX	9272/4EA	2017.08.20
4.	Cable 104EA	SUCOFLEX	9266/4EA	2017.08.20
5.	Power Meter E4416A	Agilent	MY52370013	2017.03.01
6.	Peak Power Sensor E9327A	Agilent	MY52420006	2017.03.01
7.	12.65m×8.03m×7.50m Fully-Anechoic Chamber	FRANKONIA	-----	-----
8.	23.18m×16.88m×9.60m Semi-Anechoic Chamber	FRANKONIA	---	-----
9.	Turn table Diameter:1m	HD	-----	-----
10.	Turn table Diameter:5m	HD	-----	-----
11.	Antenna master FAC(MA4.0)	MATURO	-----	-----
12.	Antenna master SAC(MA4.0)	MATURO	-----	-----
13.	9.080m×5.255m×3.525m Shielding room	FRANKONIA	-----	-----
14.	HF 906 Double-Ridged Waveguide Horn Antenna	R&S	100030	2017.08.20
15.	HF 906 Double-Ridged Waveguide Horn Antenna	R&S	100029	2017.08.20
16.	HL562 Ultra log antenna	R&S	100016	2017.08.20
17.	3160-09 Receive antenna	SCHWARZ-BECK	002058-002	2017.08.20
18.	ESI 40 EMI test receiver	R&S	100015	2017.08.20
19.	Radio tester	CMU 200	114667	2017.08.20
20.	ESCS30 EMI test receiver	R&S	100029	2017.08.20
21.	HL562 Receive antenna	R&S	100167	2017.08.20
22.	ESH3-Z5 LISN	R&S	100020	2017.08.20

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Please refer to the attachment.

APPENDIX B – TEST DATA OF RADIATED EMISSION

Please refer to the attachment.

APPENDIX C – TEST SETUP

Please refer to the attachment.

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Peak Power Output test result

Modulation type		Peak power output (dBm)		
		2412MHz (Ch1)	2437MHz (Ch6)	2462MHz (Ch11)
11b	1 Mbps	17.89	19.70	18.58
	2 Mbps	17.54	19.45	18.32
	5.5 Mbps	17.68	19.23	18.42
	11 Mbps	17.77	19.22	18.37
11g	6 Mbps	20.91	21.44	20.92
	9 Mbps	20.23	21.21	20.22
	12 Mbps	20.52	21.35	20.14
	18 Mbps	20.17	21.27	20.41
	24 Mbps	20.64	21.10	20.52
	36 Mbps	20.67	21.09	20.61
	48 Mbps	20.88	21.26	20.72
	54 Mbps	20.74	21.28	20.79
11n HT20	6.5 Mbps	19.84	21.17	19.73
	13 Mbps	19.56	21.02	19.43
	19.5 Mbps	19.62	20.46	19.28
	26 Mbps	19.33	20.87	19.49
	39 Mbps	19.63	20.91	19.67
	52 Mbps	19.55	20.86	19.59
	58.5 Mbps	19.59	20.56	19.42
	65 Mbps	19.77	20.86	19.66

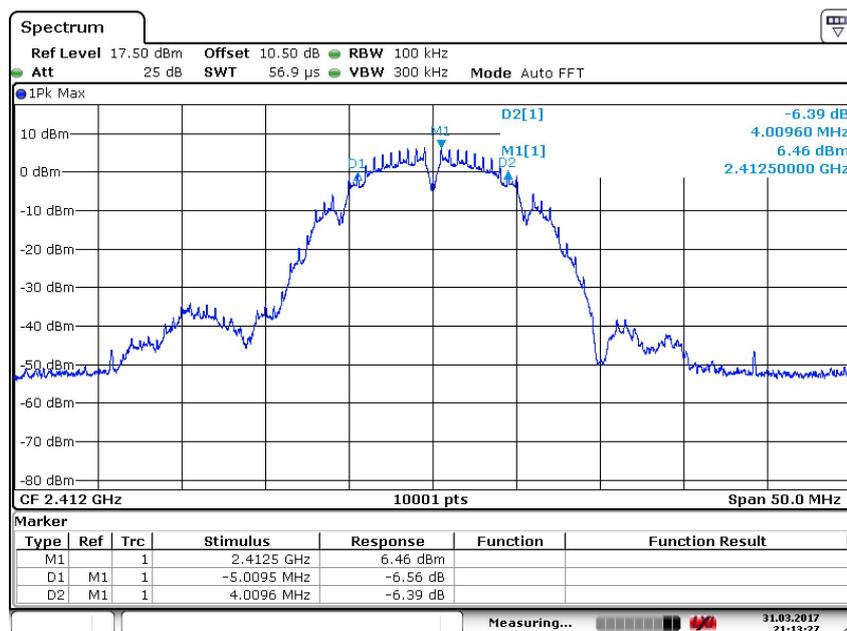
Modulation type		Average power output (dBm)		
		2412MHz (Ch1)	2437MHz (Ch6)	2462MHz (Ch11)
11b	1 Mbps	14.15	15.62	14.93
	2 Mbps	14.05	15.47	14.73
	5.5 Mbps	13.82	15.32	14.49
	11 Mbps	13.74	15.22	14.35
11g	6 Mbps	10.80	12.19	11.25
	9 Mbps	10.42	11.92	10.92
	12 Mbps	10.04	11.45	10.47
	18 Mbps	9.76	11.11	10.02
	24 Mbps	9.31	10.74	9.65
	36 Mbps	9.02	10.42	9.12
	48 Mbps	8.67	10.01	9.01
	54 Mbps	8.52	9.80	8.95
11n HT20	6.5 Mbps	9.83	11.12	10.32
	13 Mbps	9.43	10.87	10.01
	19.5 Mbps	9.12	10.32	9.64
	26 Mbps	8.72	9.94	9.13
	39 Mbps	8.44	9.39	8.77
	52 Mbps	8.03	9.02	8.21
	58.5 Mbps	7.87	8.99	8.03
	65 Mbps	7.37	8.73	7.86

* The data rate 1Mbps, 6Mbps, 6.5Mbps are selected as worse condition, and the following cases are performed with this condition.

Occupied Bandwidth

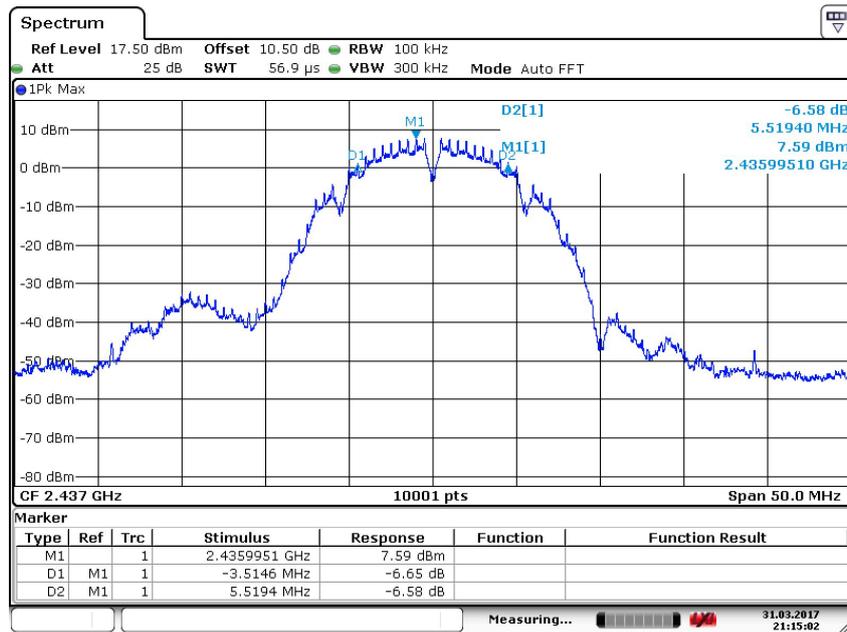
Test Mode: 802.11b

Carrier frequency (MHz)	Channel No.	6 dB bandwidth(kHz)
2412	1	9019.1
2437	6	9034.0
2462	11	9039.0



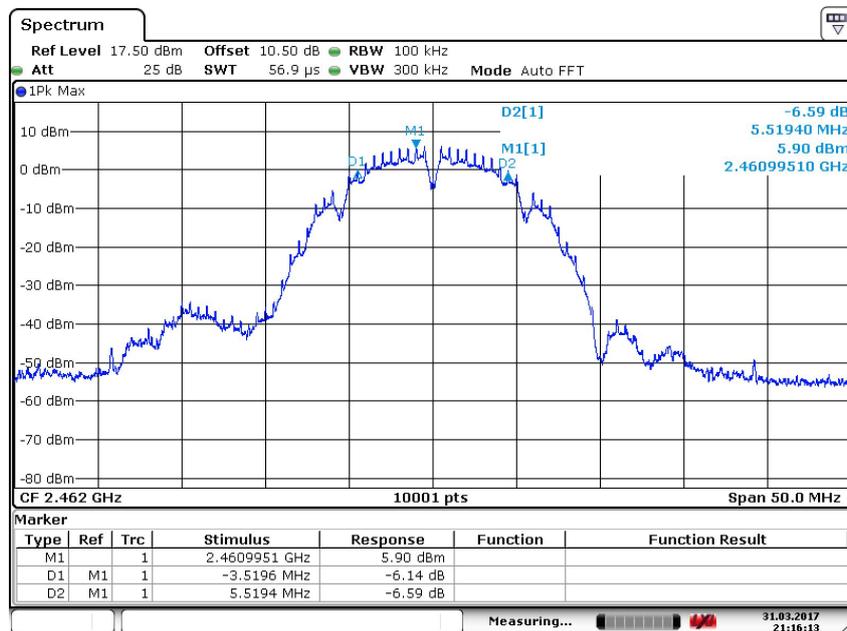
Date: 31.MAR.2017 21:13:27

Carrier frequency (MHz): 2412
Channel No.: 1
Test Mode: 802.11b



Date: 31.MAR.2017 21:15:02

Carrier frequency (MHz): 2437
Channel No.:6
Test Mode: 802.11b

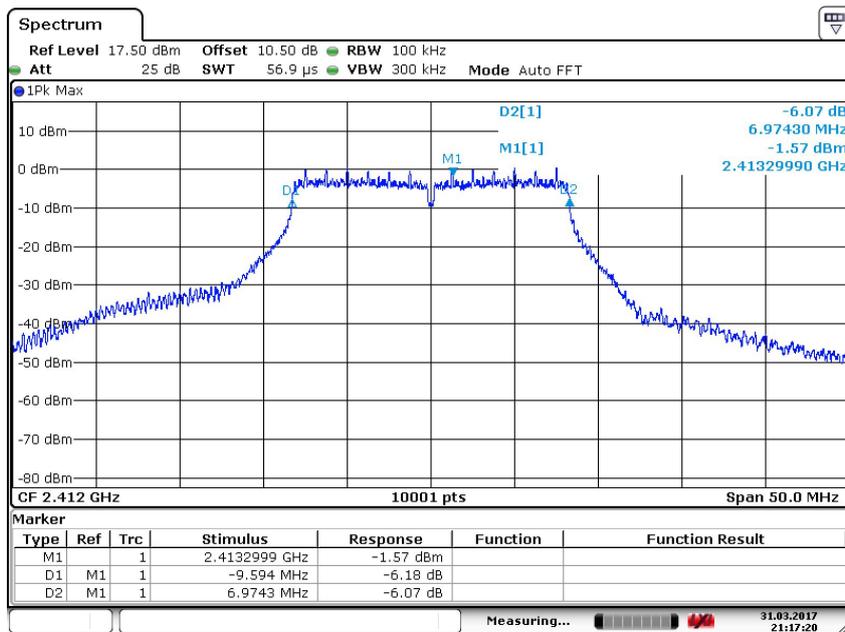


Date: 31.MAR.2017 21:16:13

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11b

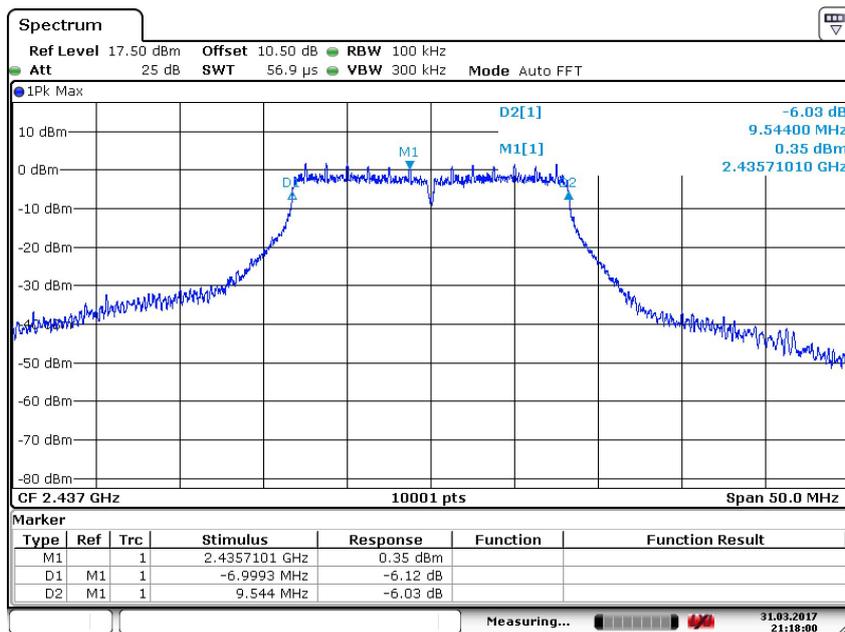
Test Mode: 802.11g

Carrier frequency (MHz)	Channel No.	6 dB bandwidth(kHz)
2412	1	16478.3
2437	6	16543.3
2462	11	16528.3



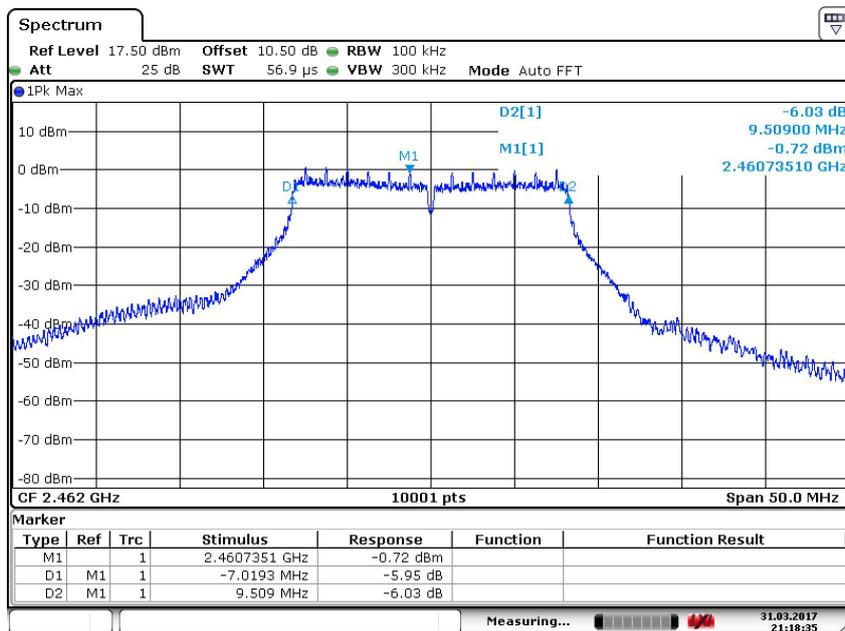
Date: 31.MAR.2017 21:17:20

Carrier frequency (MHz): 2412
Channel No.: 1
Test Mode: 802.11g



Date: 31.MAR.2017 21:18:00

Carrier frequency (MHz): 2437
Channel No.:6
Test Mode: 802.11g

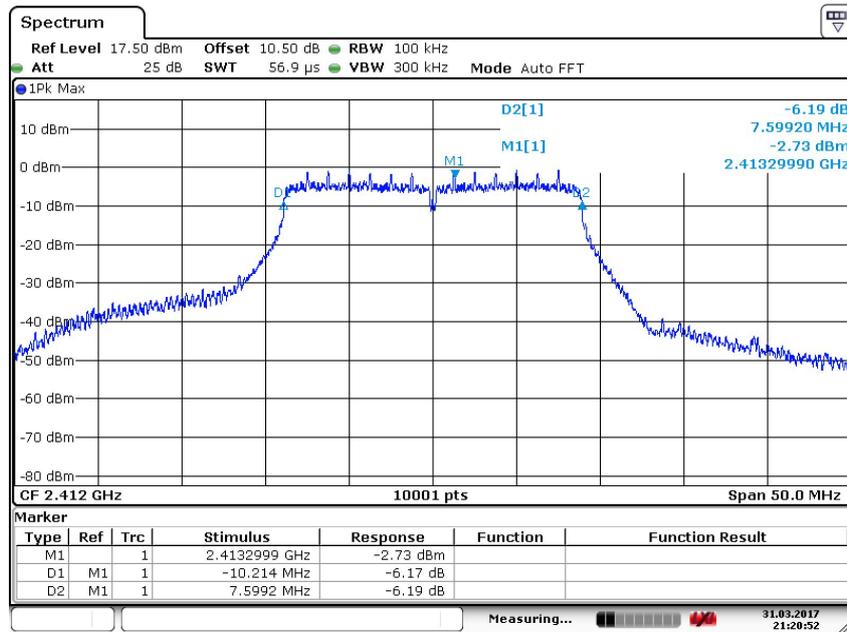


Date: 31.MAR.2017 21:18:35

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11g

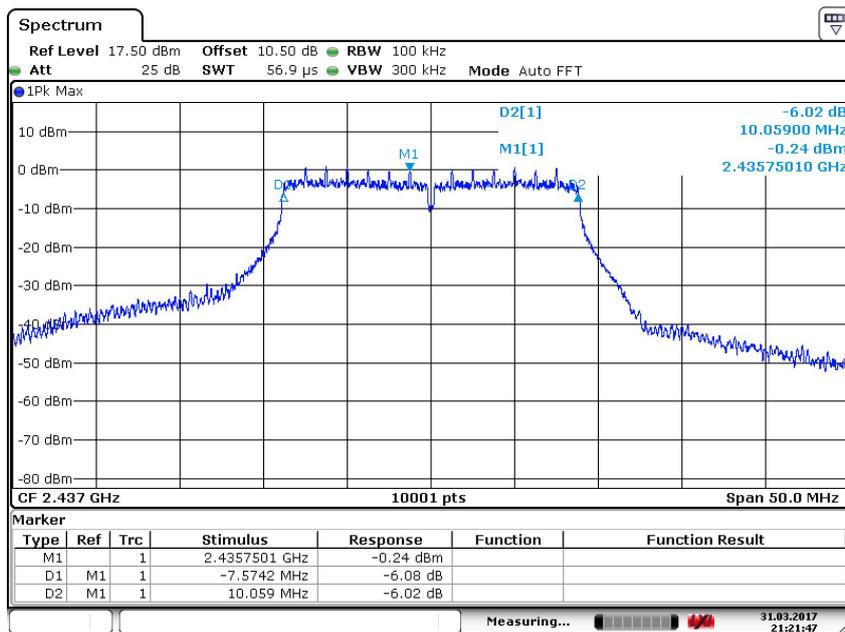
Test Mode: 802.11n (HT20)

Carrier frequency (MHz)	Channel No.	6 dB bandwidth(kHz)
2412	1	17813.2
2437	6	17633.2
2462	11	17703.2



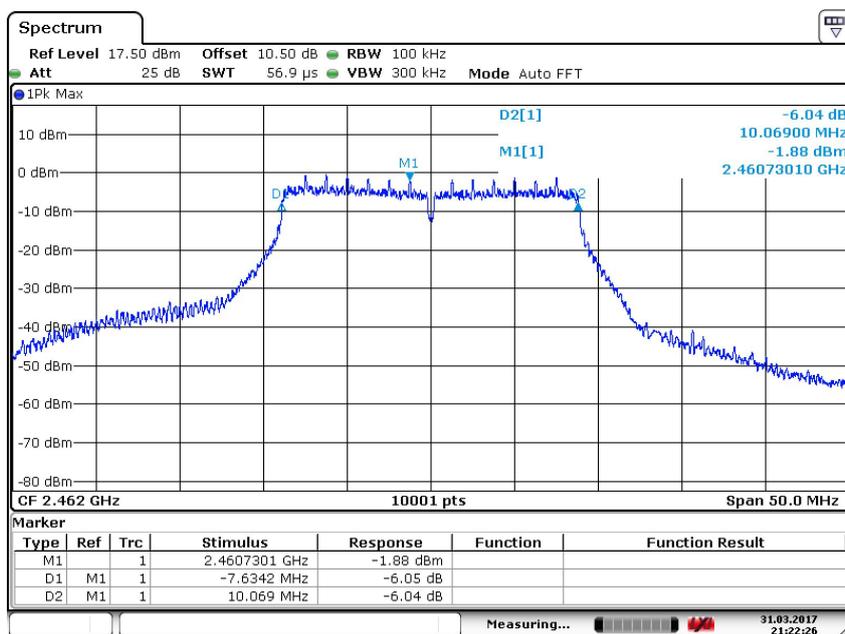
Date: 31.MAR.2017 21:20:52

Carrier frequency (MHz): 2412
Channel No.: 1
Test Mode: 802.11n (HT20)



Date: 31.MAR.2017 21:21:47

Carrier frequency (MHz): 2437
Channel No.:6
Test Mode: 802.11n(HT20)



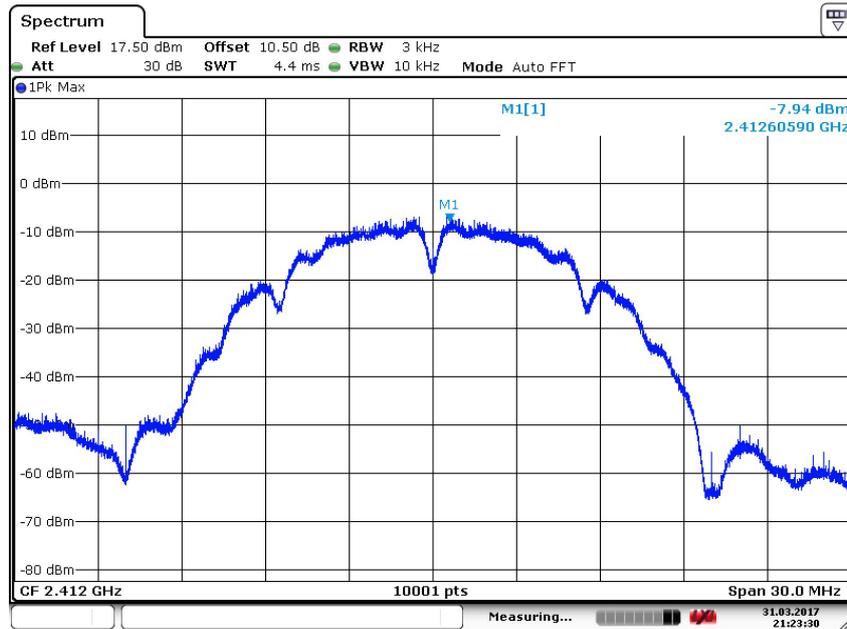
Date: 31.MAR.2017 21:22:26

Carrier frequency (MHz): 2462
Channel No.:11
Test Mode: 802.11n(HT20)

Transmitter Power Spectral Density

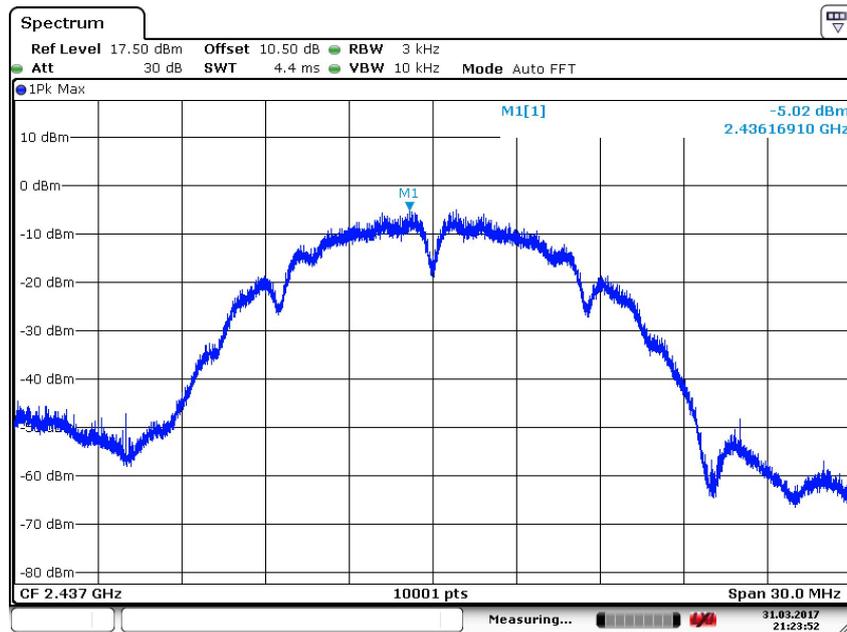
Test Mode: 802.11b

Carrier frequency (MHz)	Channel No	Power Density (dBm)
2412	1	-7.94
2437	6	-5.02
2462	11	-7.67



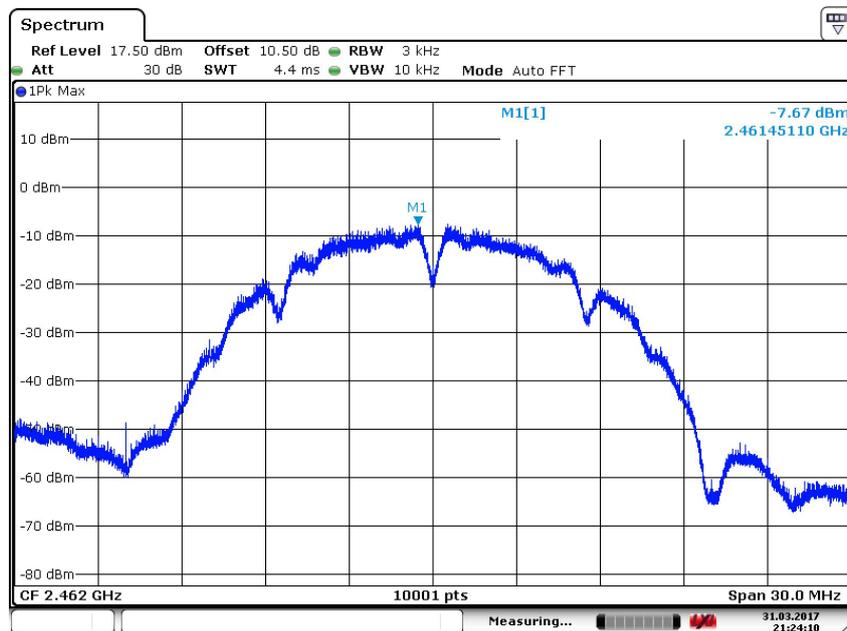
Date: 31.MAR.2017 21:23:30

Carrier frequency (MHz): 2412
Channel No.1
Test Mode: 802.11b



Date: 31.MAR.2017 21:23:51

Carrier frequency (MHz): 2437
Channel No.6
Test Mode: 802.11b

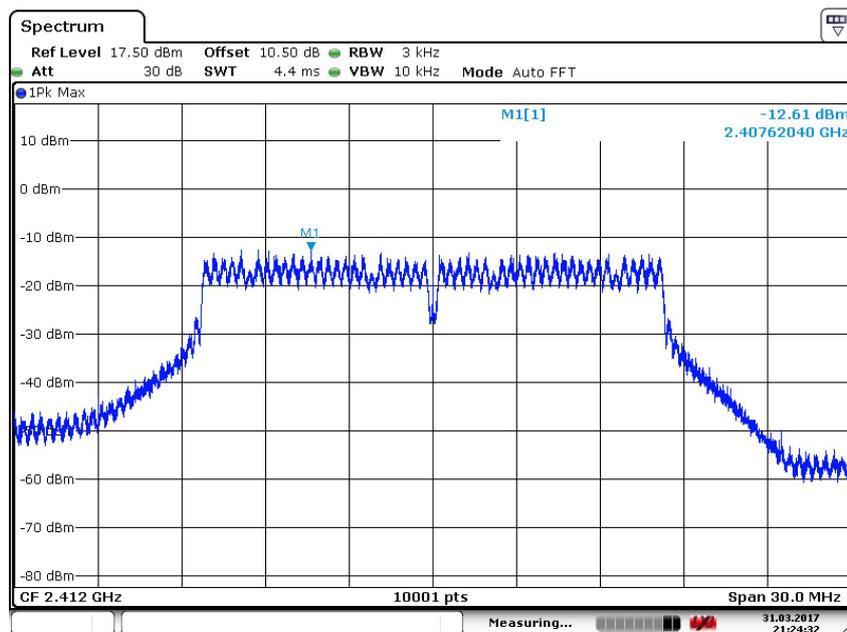


Date: 31.MAR.2017 21:24:10

Carrier frequency (MHz): 2462
Channel No.11
Test Mode: 802.11b

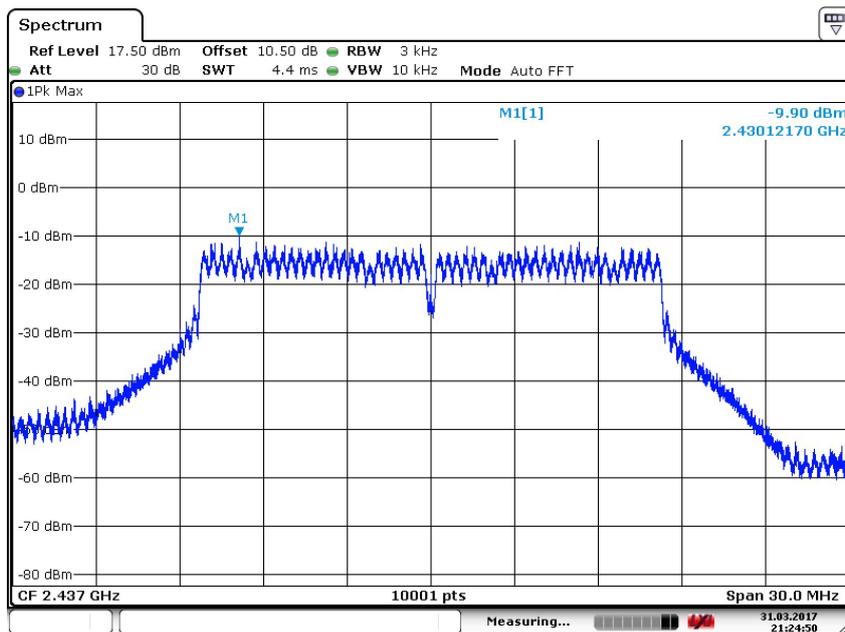
Test Mode: 802.11g

Carrier frequency (MHz)	Channel No	Power Density (dBm)
2412	1	-12.61
2442	6	-9.90
2472	11	-12.27



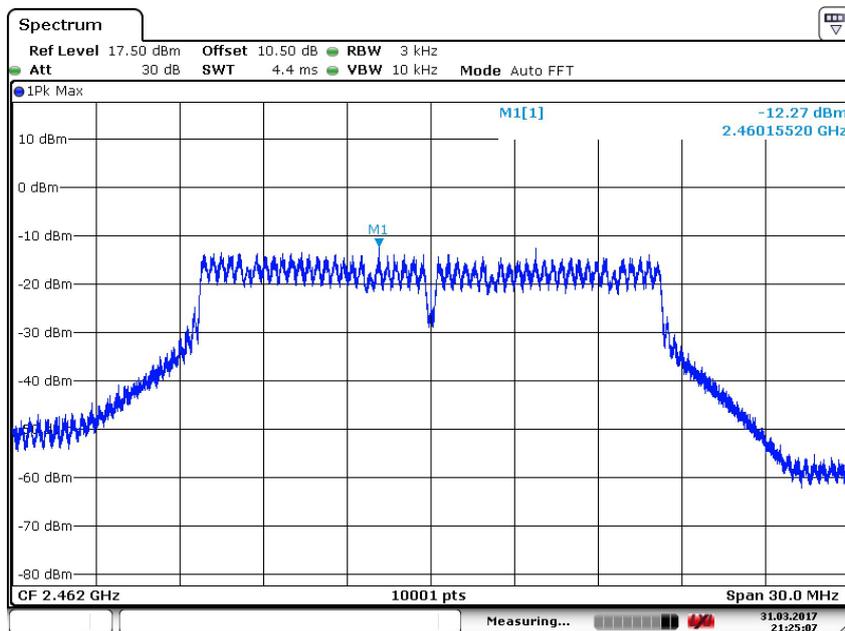
Date: 31.MAR.2017 21:24:32

Carrier frequency (MHz): 2412
Channel No.1
Test Mode: 802.11g



Date: 31.MAR.2017 21:24:50

Carrier frequency (MHz): 2437
Channel No.6
Test Mode: 802.11g

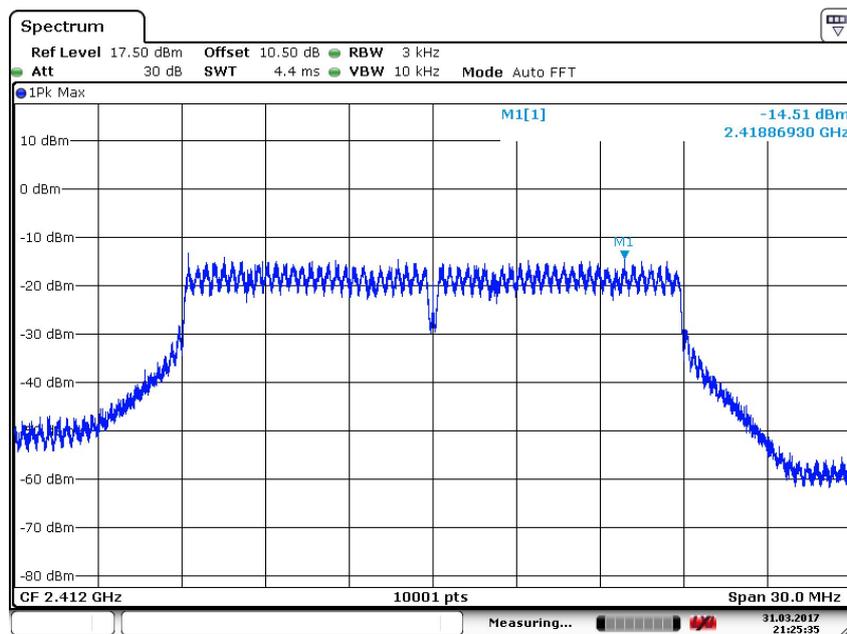


Date: 31.MAR.2017 21:25:07

Carrier frequency (MHz): 2462
Channel No.11
Test Mode: 802.11g

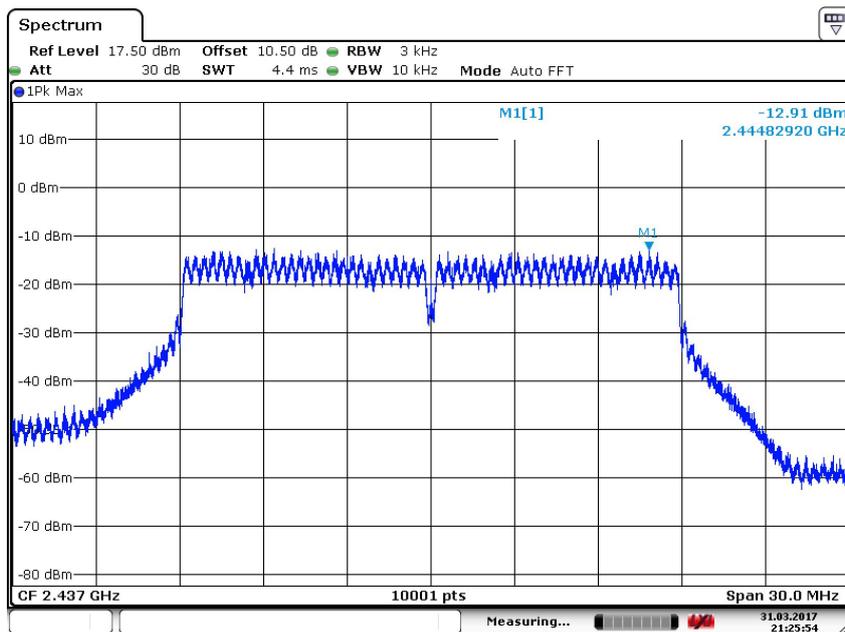
Test Mode: 802.11n(HT20)

Carrier frequency (MHz)	Channel No	Power Density (dBm)
2412	1	-14.51
2437	6	-12.91
2462	11	-13.98



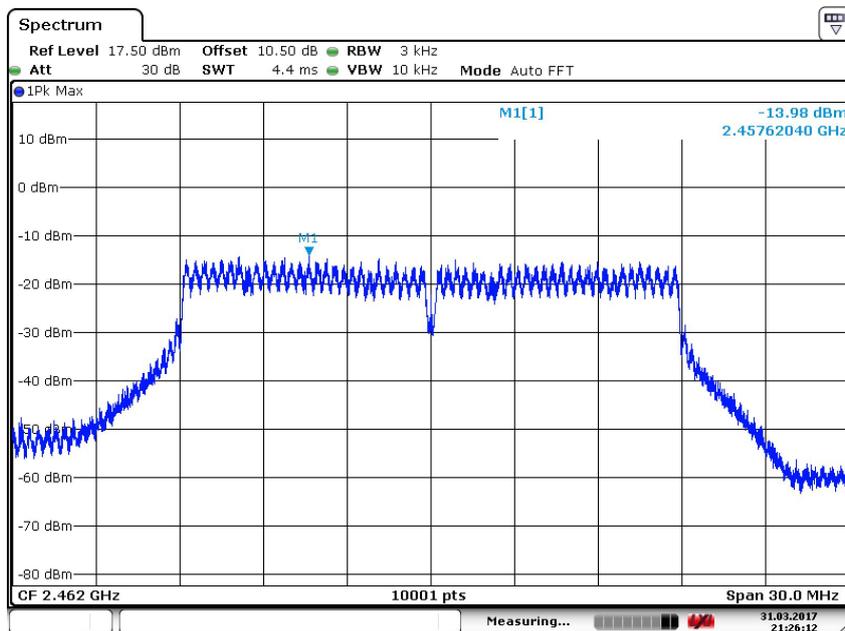
Date: 31.MAR.2017 21:25:35

Carrier frequency (MHz): 2412
Channel No.1
Test Mode: 802.11n(HT20)



Date: 31.MAR.2017 21:25:54

Carrier frequency (MHz): 2437
Channel No.6
Test Mode: 802.11n(HT20)



Date: 31.MAR.2017 21:26:12

Carrier frequency (MHz): 2462
Channel No.11
Test Mode: 802.11n(HT20)