



TEST REPORT

No. I18D00226-SRD07

For

Client : Advanced Mobile Payment Inc.

Production : AMP 6500

Model Name : AMP 6500

Brand Name : AMP POS

FCC ID: 2AKJB-AMP6500-1

Hardware Version: AMP 6500-CD

Software Version: V1.0.11

Issued date: 2019-02-15

NOTE

1. The test results in this test report relate only to the devices specified in this report.
2. This report shall not be reproduced except in full without the written approval of East China Institute of Telecommunications.
3. KDB 789033 standard has not been approved by A2LA.
4. For the test results, the uncertainty of measurement is not taken into account when judging the compliance with specification, and the results of measurement or the average value of measurement results are taken as the criterion of the compliance with specification directly.

Test Laboratory:

East China Institute of Telecommunications

Add: 7-8F, G Area, No.668, Beijing East Road, Huangpu District, Shanghai, P. R. China

Tel: +86 21 63843300

FAX: +86 21 63843301

E-Mail: welcome@ecit.org.cn

Revision Version

| Report Number | Revision | Date | Memo |
|----------------------|-----------------|-------------|---------------------------------|
| I18D00226-SRD07 | 00 | 2019-01-04 | Initial creation of test report |
| I18D00226-SRD07 | 01 | 2019-02-15 | Second creation of test report |

CONTENTS

| | |
|--|----|
| NOTE | 2 |
| 1. TEST LABORATORY | 6 |
| 1.1. TESTING LOCATION | 6 |
| 1.2. TESTING ENVIRONMENT | 6 |
| 1.3. PROJECT DATA..... | 6 |
| 1.4. SIGNATURE | 6 |
| 2. CLIENT INFORMATION | 7 |
| 2.1. APPLICANT INFORMATION..... | 7 |
| 2.2. MANUFACTURER INFORMATION | 7 |
| 3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT (AE) | 8 |
| 3.1. ABOUT EUT | 8 |
| 3.2. INTERNAL IDENTIFICATION OF EUT USED DURING THE TEST..... | 8 |
| 3.3. INTERNAL IDENTIFICATION OF AE USED DURING THE TEST | 8 |
| 4. REFERENCE DOCUMENTS | 9 |
| 4.1. REFERENCE DOCUMENTS FOR TESTING | 9 |
| 5. TEST RESULTS..... | 10 |
| 5.1. SUMMARY OF TEST RESULTS | 10 |
| 5.2. NOTES..... | 10 |
| 5.3. STATEMENTS..... | 11 |
| 6. TEST RESULT | 12 |
| 6.1. MEASUREMENT METHOD..... | 12 |
| 6.2. MAXIMUM AVERAGE OUTPUT POWER-CONDUCTED | 13 |
| 6.3. PEAK POWER SPECTRAL DENSITY (CONDUCTED) | 14 |
| 6.4. OCCUPIED 6DB BANDWIDTH(CONDUCTED) | 18 |
| 6.5. TRANSMITTER SPURIOUS EMISSION | 23 |

| | | |
|-------------------|--|-----------|
| 6.6. | BAND EDGES COMPLIANCE | 42 |
| 6.7. | AC POWERLINE CONDUCTED EMISSION | 50 |
| 7. | TEST EQUIPMENT AND ANCILLARIES USED FOR TESTS | 52 |
| 8. | TEST ENVIRONMENT | 53 |
| 9. | MEASUREMENT UNCERTAINTY | 54 |
| ANNEX A. | DETAILED TEST RESULTS | 55 |
| ANNEX A.1. | MAIN TERMS | 55 |
| ANNEX A.2. | TERMS USED IN CONDITION COLUMN | 55 |
| ANNEX A.3. | TERMS USED IN VERDICT COLUMN | 55 |
| ANNEX A.4. | TERMS USED IN NOTE COLUMN | 55 |
| ANNEX B. | ACCREDITATION CERTIFICATE | 56 |

1. Test Laboratory

1.1. Testing Location

| | |
|---------------------|---|
| Company Name: | ECIT Shanghai, East China Institute of Telecommunications |
| Address: | 7-8F, G Area, No. 668, Beijing East Road, Huangpu District, Shanghai, P. R. China |
| Postal Code: | 200001 |
| Telephone: | (+86)-021-63843300 |
| Fax: | (+86)-021-63843301 |
| FCC registration No | 958356 |

1.2. Testing Environment

| | |
|---------------------|-----------|
| Normal Temperature: | 15°C-35°C |
| Relative Humidity: | 20%-75% |

1.3. Project data

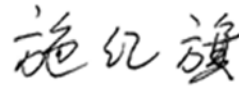
| | |
|--------------------|------------|
| Project Leader | Yu Anlu |
| Testing Start Date | 2018-12-03 |
| Testing End Date | 2019-02-14 |

1.4. Signature



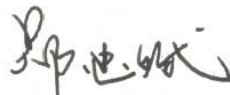
Tang Tao

(Prepared this test report)



Shi Hongqi

(Reviewed this test report)



Zheng Zhongbin

(Approved this test report)

2. Client Information

2.1. Applicant Information

| | |
|--------------|---|
| Company Name | Advanced Mobile Payment Inc. |
| Address | Units 401-403, 15 Wertheim Court. Richmond Hill, Ontario L4B 3H7 CAN ADA |
| Telephone | 1 (905) 597 2333 |
| Postcode | L4B 3H7 |

2.2. Manufacturer Information

| | |
|--------------|---|
| Company Name | NEW POS TECHNOLOGY LIMITED |
| Address | Floor, Block A, Financial Technology Building, No.11 Keyuan Rd, Nanshan District, Shenzhen |
| Telephone | / |
| Postcode | / |

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

3.1. About EUT

| | |
|-----------------------------------|--------------------------------------|
| Production | AMP 6500 |
| Model name | AMP 6500 |
| FCC ID | 2AKJB-AMP6500-1 |
| WLAN Frequency Range(5.8G) | ISM Bands: 5150MHz-5250MHz |
| GSM Frequency Band | GSM1900 |
| UMTS Frequency Band | Band II |
| CDMA Frequency Band | NA |
| LTE Frequency Band | LTE 2/4/5/7/25/26 |
| Additional Communication Function | BT4.2, BLE, WiFi 802.11a,b,g,n20,n40 |
| WLAN type of modulation | OFDM |
| Extreme Temperature | -20/+60°C |
| Nominal Voltage | 12V |
| Extreme High Voltage | 15V |
| Extreme Low Voltage | 10V |

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

3.2. Internal Identification of EUT used during the test

| EUT ID* | Model Name | SN or IMEI | HW Version | SW Version | Date of receipt |
|---------|------------|------------|-------------|------------|-----------------|
| N01 | AMP 6500 | / | AMP 6500-CD | V1.0.11 | 2018-11-26 |
| N05 | AMP 6500 | / | AMP 6500-CD | V1.0.11 | 2018-11-26 |

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

3.3. Internal Identification of AE used during the test

| AE ID* | Description | SN |
|--------|-------------|-----|
| AE1 | RF cable | --- |

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

4. Reference Documents

4.1. 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; Subpart E—Unlicensed National Information Infrastructure Devices | 2018/10/1 |
| ANSI 63.10 | Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz | 2013 |
| UNII: KDB 789033 | Information Infrastructure (U-NII) Devices - Part 15, Subpart E | 2017 |

5. Test Results

5.1. Summary of Test Results

A brief summary of the tests carried out is shown as following.

| SUMMARY OF MEASUREMENT RESULTS | Sub-clause of Part15E | Verdict |
|--|-----------------------|---------|
| Maximum Output Power | 15.407 | P |
| Power Spectral Density | 15.407 | P |
| Occupied 6dB Bandwidth | 15.403 | P |
| Band edge compliance | 15.407 | P |
| Transmitter Spurious Emission - Conducted | 15.407 | P |
| Transmitter Spurious Emission - Radiated | 15.407 | P |
| AC Powerline Conducted Emission | 15.407 | P |

Note: Please refer to section 6 for detail; please refer to Annex A in this test report for the detailed test results.

The following terms are used in the above table.

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

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

| | | |
|-------------|------|------|
| Temperature | Tnom | 25°C |
| Voltage | Vnom | 12V |
| Humidity | Hnom | 47% |

5.2. Notes

All reported tests were carried out on a sample equipment to demonstrate limited compliance with section 3.

The test results of this test report relate exclusively to the item(s) tested as specified in section 5.

5.3. Statements

The AMP 6500, support GSM/GPRS/EDGE/WCDMA/LTE/BT/BLE/WLAN, manufactured by NEW POS TECHNOLOGY LIMITED., which is a new product for testing.

ECIT only performed test cases which identified with P/NM/NA/F results in Annex A.

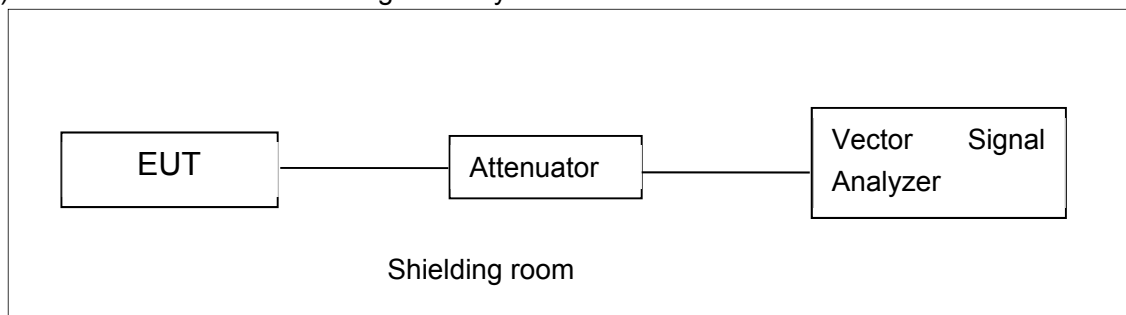
ECIT has verified that the compliance of the tested device specified in section 5 of this test report is successfully evaluated according to the procedure and test methods as defined in type certification requirement listed in section 5 of this test report.

6. Test result

6.1. Measurement Method

6.1.1. Conducted Measurements

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

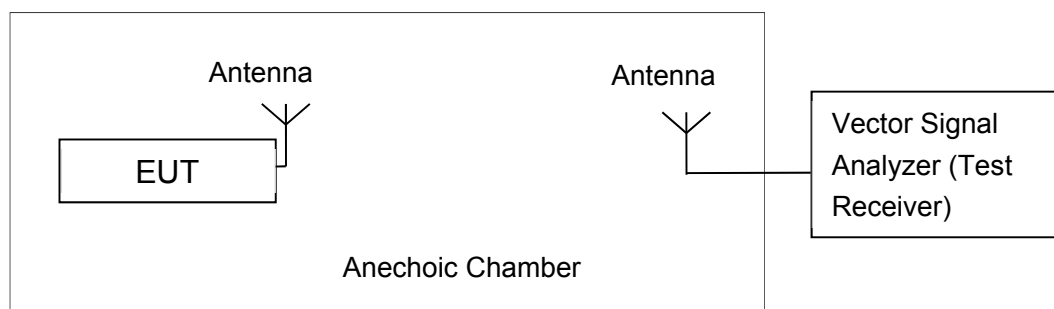


6.1.2. Radiated Emission Measurements

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

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

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



The measurement is made according to ANSI C63.10.

The radiated emission test is performed in semi-anechoic chamber. The distance from the EUT to the reference point of measurement antenna is 3m. The test is carried out on both vertical and horizontal polarization and only maximization result of both polarizations is kept. During the test, the turntable is rotated 360° and the measurement antenna is moved from 1m to 4m to get the maximization result.

6.2. Maximum Average Output Power-Conducted

Measurement Limit and Method:

| Standard | Limit (dBm) |
|------------------------|-------------|
| FCC CRF Part 15.407(a) | < 30 |

Method of Measurement: See ANSI C63.10-clause 12.3.2.2 Method SA-1

Set the spectrum analyzer in the following:

Detector: RMS.

RBW=1MHz.

VBW=3MHz.

Sweep time = AUTO.

Span:30MHz (for 20MHz); 50MHz (for 40MHz).

802.11a mode

U-NII-3

| Mode | Data Rate(Mbps) | Teat Result(dBm) | | |
|---------|-----------------|------------------|----------------|----------------|
| | | 5745MHz(Ch149) | 5785MHz(Ch157) | 5825MHz(Ch165) |
| 802.11a | 6 | 15.91 | 15.34 | 14.42 |

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

802.11n-HT20 mode

U-NII-3

| Mode | Data Rate(Index) | Teat Result(dBm) | | |
|----------------|------------------|------------------|---------|---------|
| | | 5745MHz | 5785MHz | 5825MHz |
| 802.11n(20MHz) | MCS0 | 15.99 | 15.41 | 14.52 |

The data rate MCS0 is selected as worse condition, and the following cases are performed with this condition.

802.11n-HT40 mode

U-NII-3

| Mode | Data Rate(Index) | Teat Result(dBm) | | |
|----------------|------------------|------------------|---|---------|
| | | 5755MHz | / | 5795MHz |
| 802.11n(40MHz) | MCS0 | 15.69 | / | 14.64 |

The data rate MCS0 is selected as worse condition, and the following cases are performed with this condition.

Conclusion: PASS

6.3. Peak Power Spectral Density (conducted)

Measurement Limit:

| Standard | Limit |
|---------------------------|------------------|
| FCC 47 CFR Part 15.407(a) | < 30 dBm/500 kHz |

The measurement is made according to ANSI C63.10 and KDB789033 D02

Measurement Results:

| Mode | Channel | Power Spectral Density (dBm/500kHz) | | Conclusion |
|-----------------|---------|---------------------------------------|-------|------------|
| | | Fig. | Value | |
| 802.11a | 149 | Fig.1 | 6.691 | P |
| | 157 | Fig.2 | 5.729 | P |
| | 165 | Fig.3 | 4.637 | P |
| 802.11n HT20 | 149 | Fig.4 | 5.124 | P |
| | 157 | Fig.5 | 5.846 | P |
| | 165 | Fig.6 | 4.5 | P |
| 802.11n HT40 | 151 | Fig.7 | 2.703 | P |
| | 159 | Fig.8 | 2.038 | P |

Conclusion: PASS

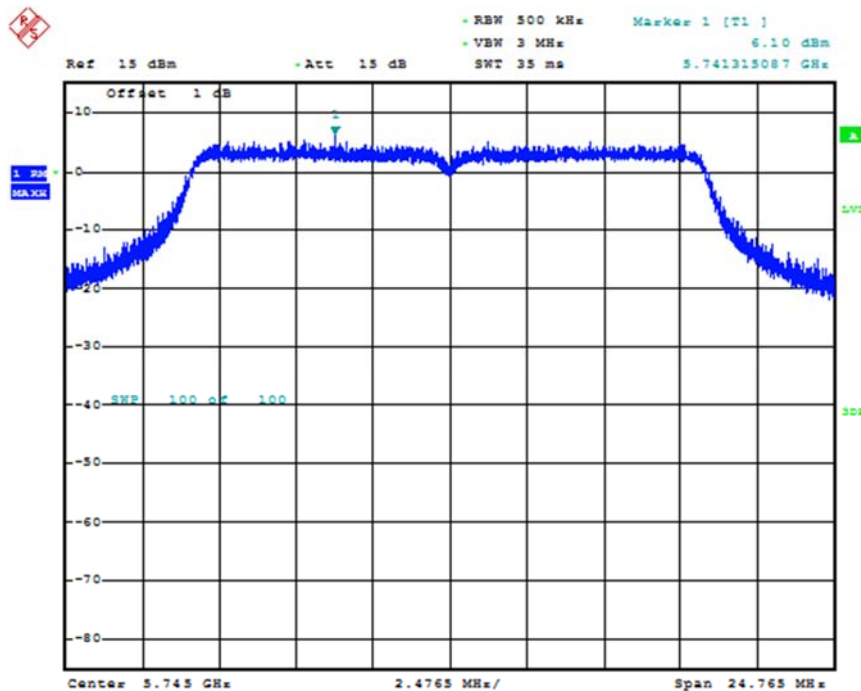


Fig. 1 Power Spectral Density (802.11a, Ch 149)

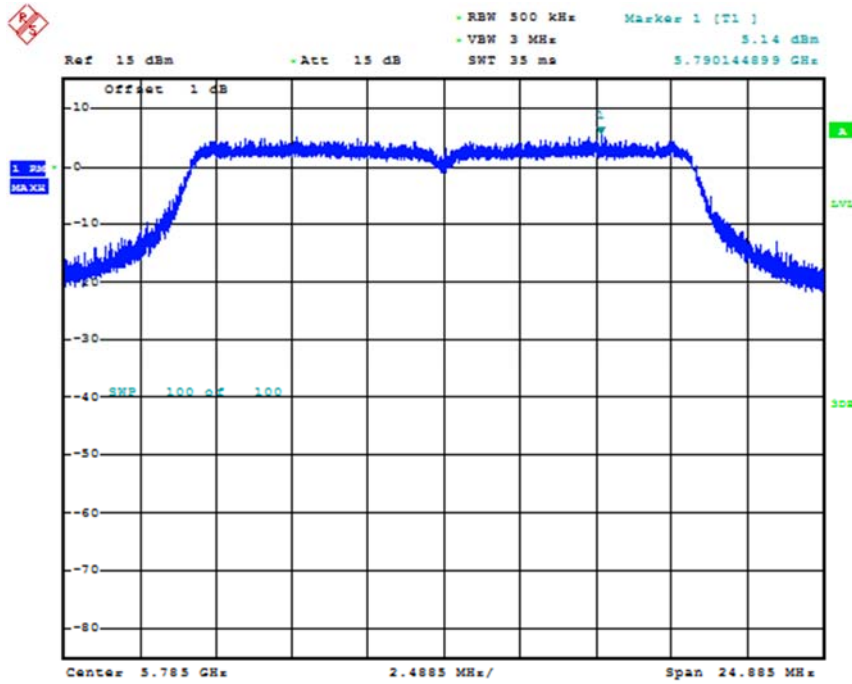


Fig. 2 Power Spectral Density (802.11a, Ch 157)

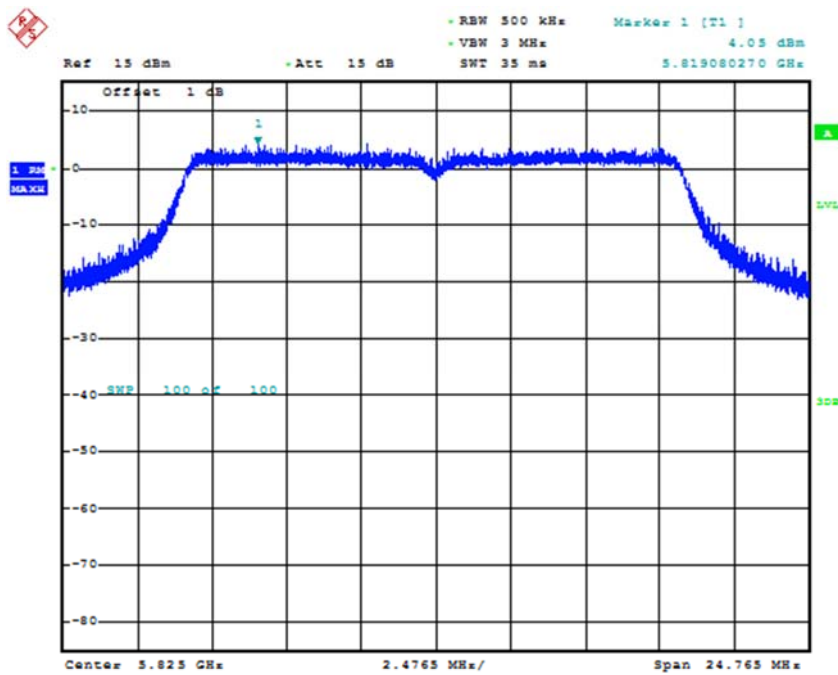


Fig. 3 Power Spectral Density (802.11a, Ch 165)

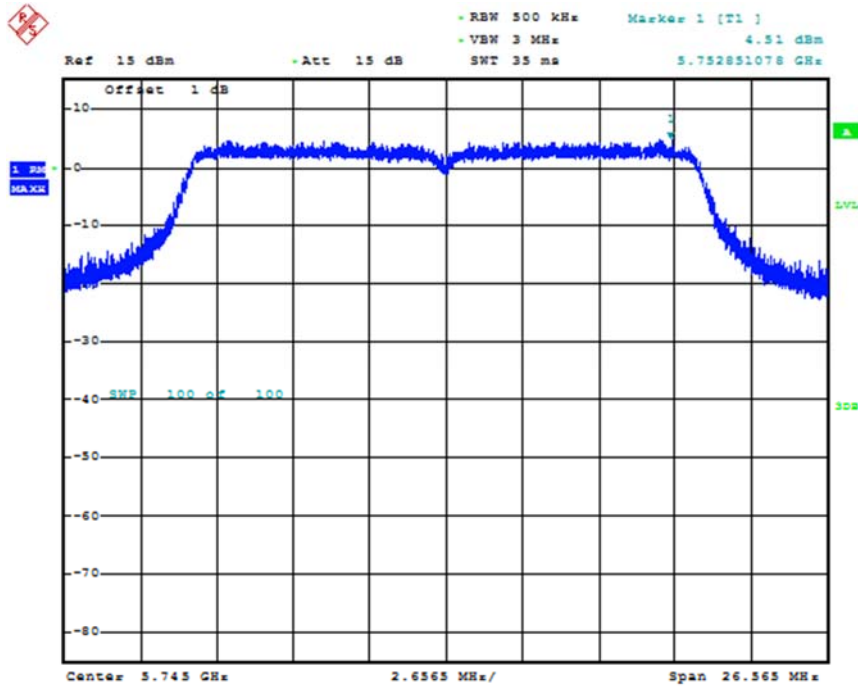


Fig. 4 Power Spectral Density (802.11n-HT20, Ch 149)

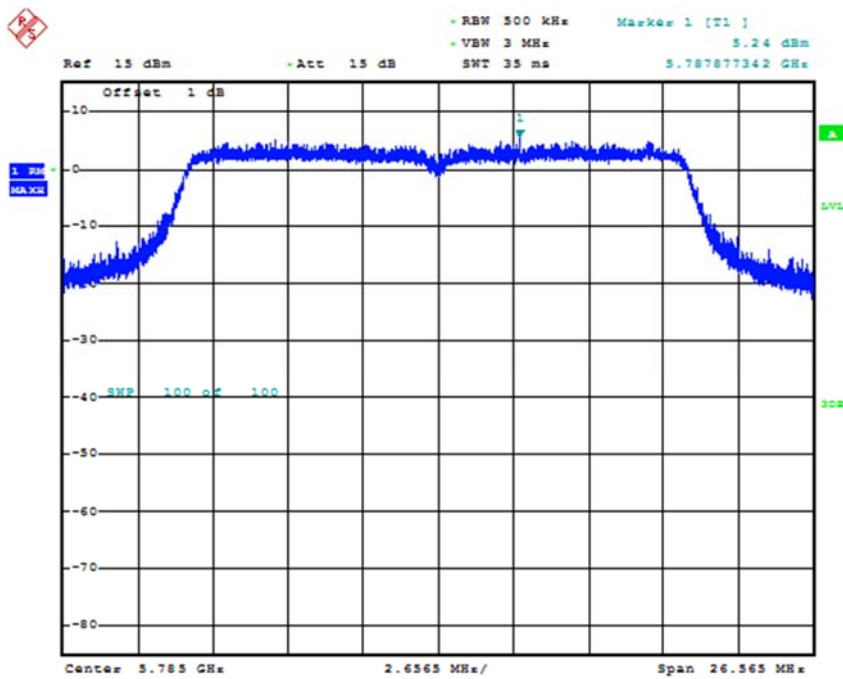


Fig. 5 Power Spectral Density (802.11n-HT20, Ch 157)

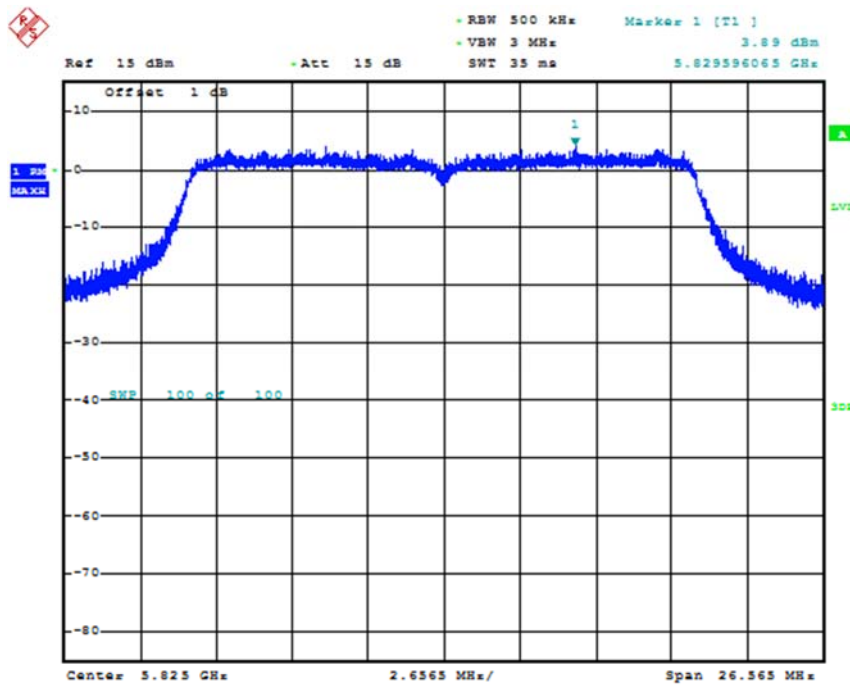


Fig. 6 Power Spectral Density (802.11n-HT20, Ch 165)

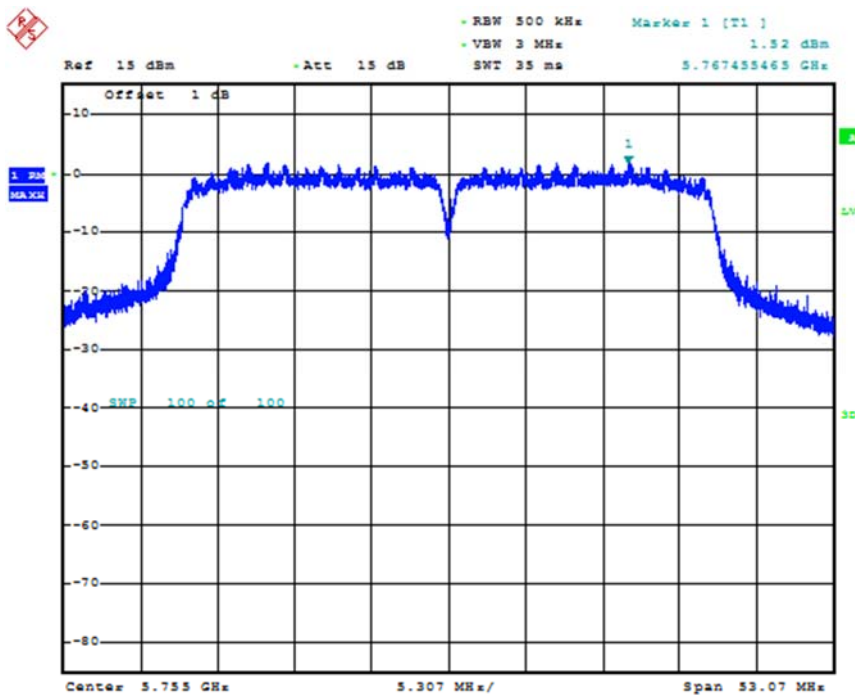


Fig. 7 Power Spectral Density (802.11n-HT40, Ch 151)

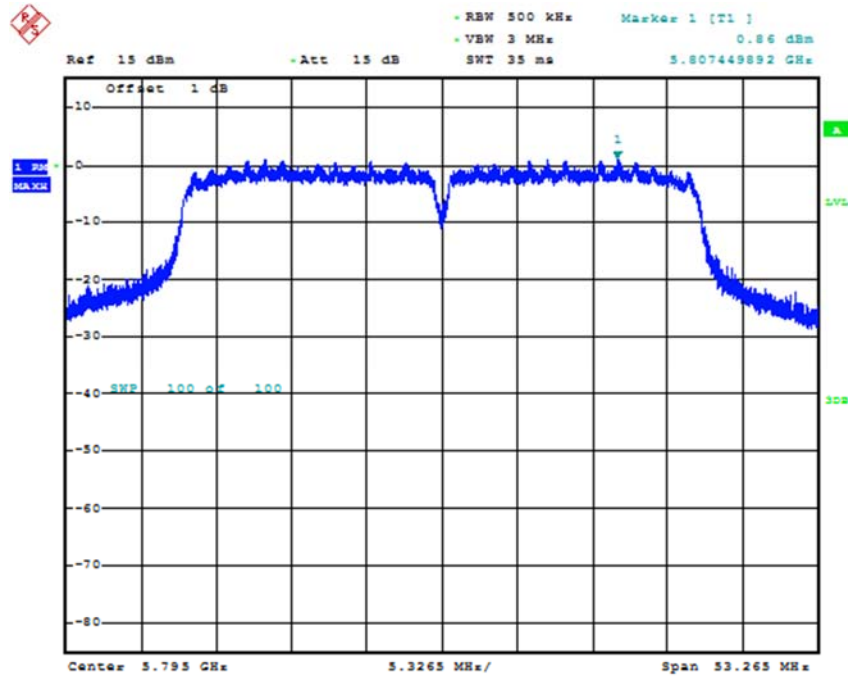


Fig. 8 Power Spectral Density (802.11n-HT40, Ch 159)

6.4. Occupied 6dB Bandwidth(conducted)

Measurement Limit:

| Standard | Limit (kHz) |
|----------------------------|-------------|
| FCC 47 CFR Part 15.403 (i) | / |

The measurement is made according to KDB 789033

Measurement Result:

| Mode | Channel | Occupied 6dB Bandwidth (MHz) | | conclusion |
|-----------------|---------|-------------------------------|-------|------------|
| 802.11a | 149 | Fig.9 | 16.51 | P |
| | 157 | Fig.10 | 16.59 | P |
| | 165 | Fig.11 | 16.51 | P |
| 802.11n HT20 | 149 | Fig.12 | 17.71 | P |
| | 157 | Fig.13 | 17.71 | P |
| | 165 | Fig.14 | 17.71 | P |
| 802.11n HT40 | 151 | Fig.15 | 35.38 | P |
| | 159 | Fig.16 | 35.51 | P |

Conclusion: PASS

Test graphs as below:

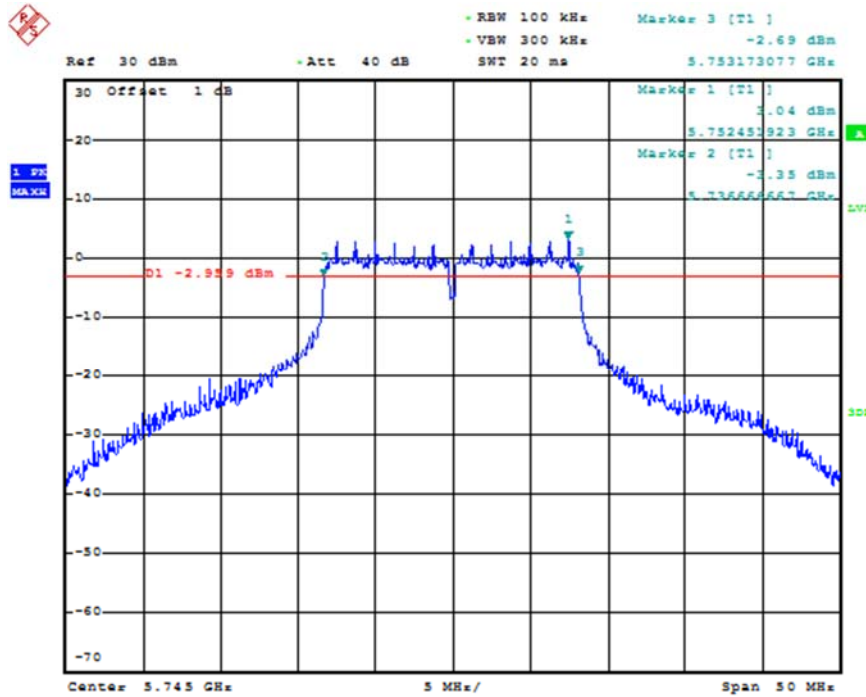


Fig. 9 Occupied 6dB Bandwidth (802.11a, Ch 149)

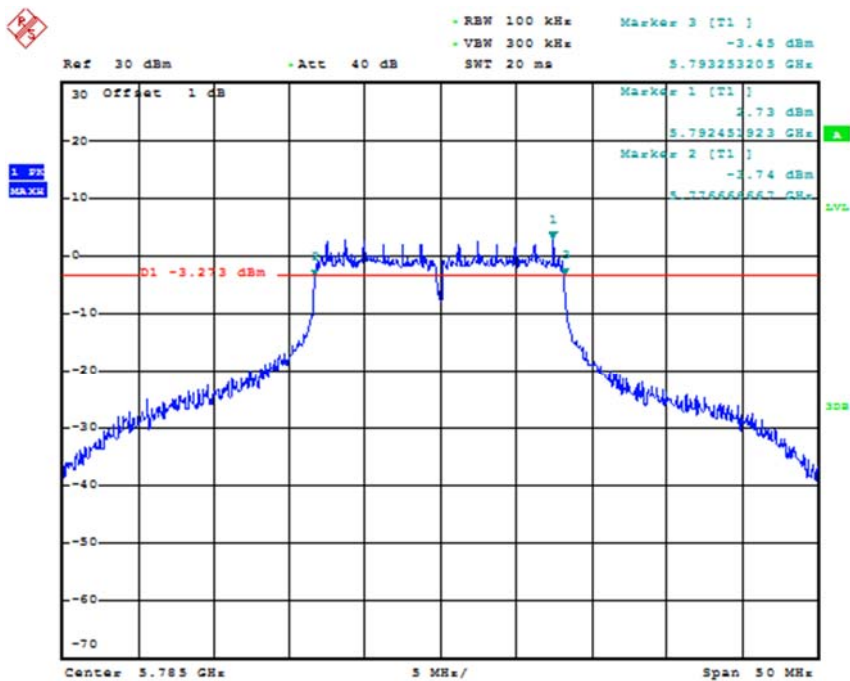


Fig. 10 Occupied 6dB Bandwidth (802.11a, Ch 157)

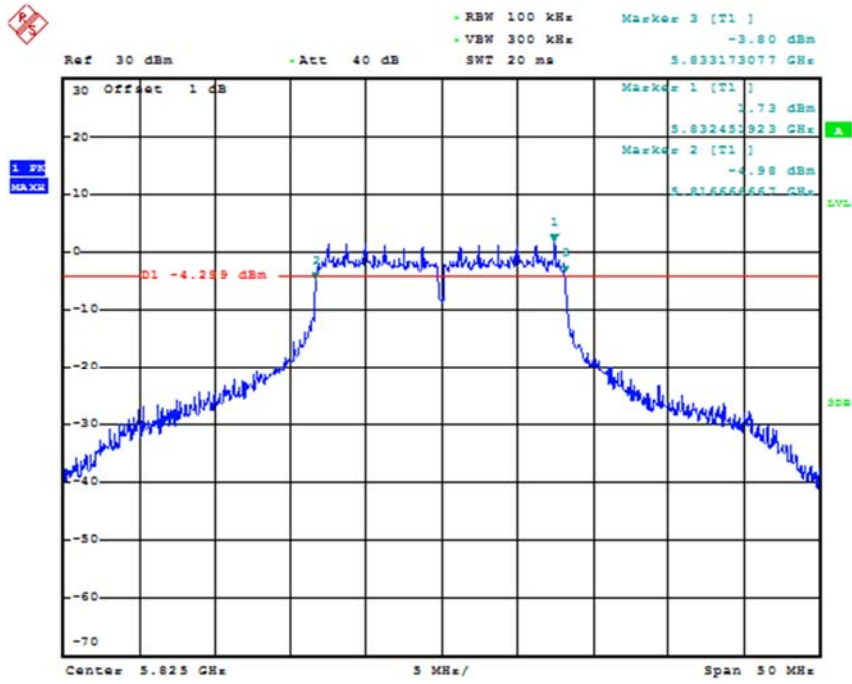


Fig. 11 Occupied 6dB Bandwidth (802.11a, Ch 165)

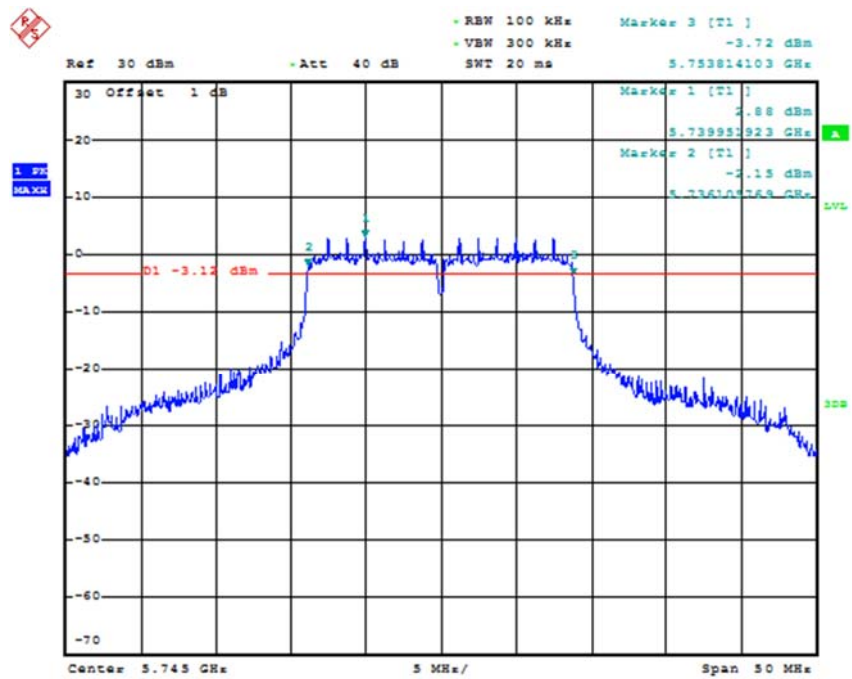


Fig. 12 Occupied 6dB Bandwidth (802.11n-HT20, Ch 149)

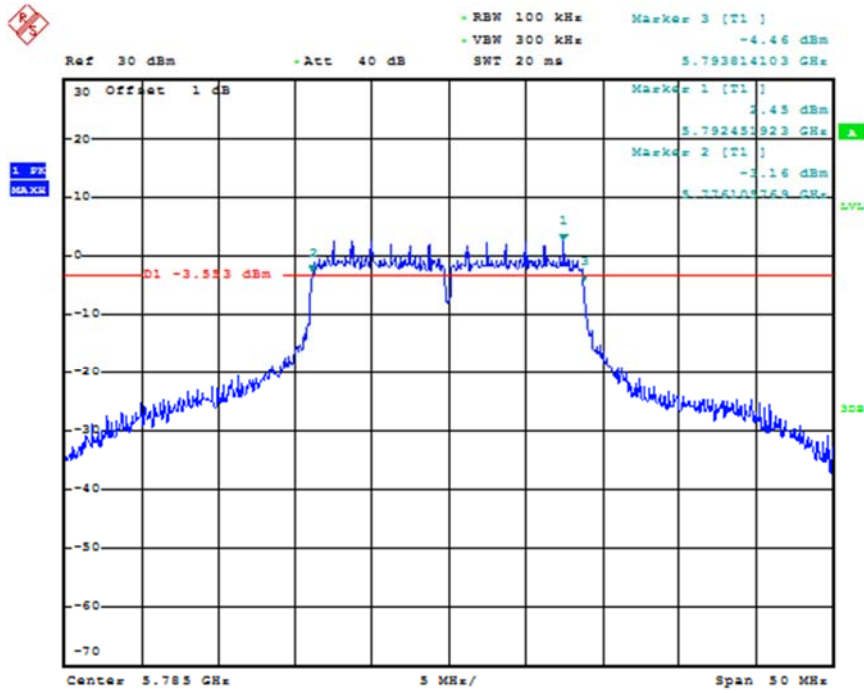


Fig. 13 Occupied 6dB Bandwidth (802.11n-HT20, Ch 157)

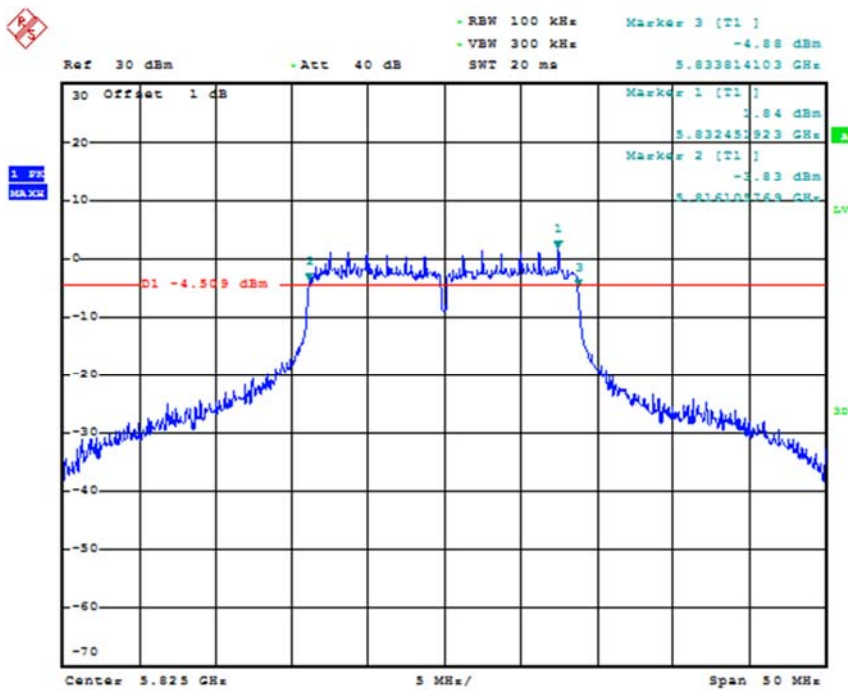


Fig. 14 Occupied 6dB Bandwidth (802.11n-HT20, Ch 165)

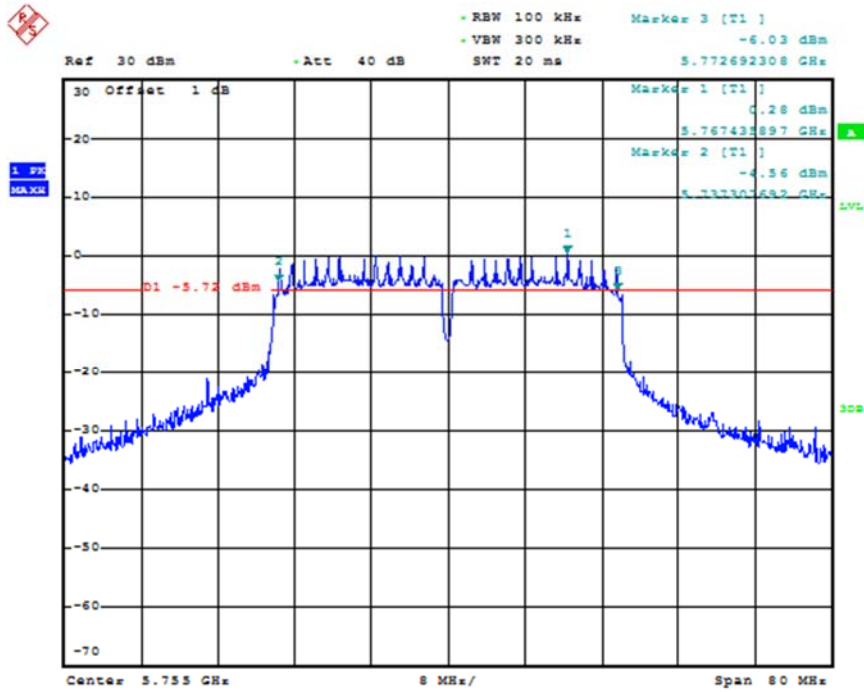


Fig. 15 Occupied 6dB Bandwidth (802.11n-HT40, Ch 151)

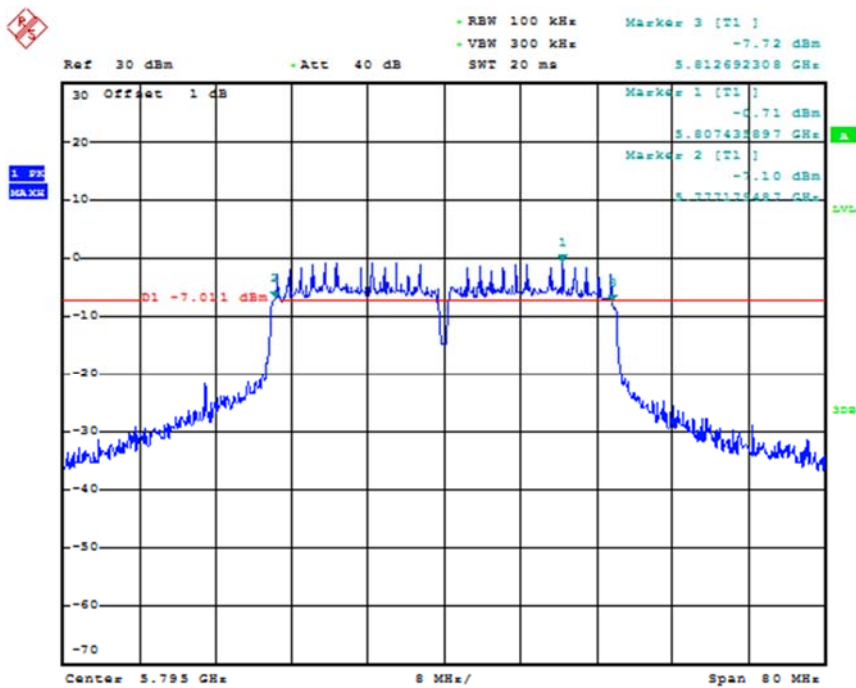


Fig. 16 Occupied 6dB Bandwidth (802.11n-HT40, Ch 159)

6.5. Transmitter Spurious Emission

Measurement Limit:

| Standard | Frequency (MHz) | Limit (dBm/MHz) |
|------------------------|-----------------|-----------------|
| FCC 47 CFR Part 15.407 | 5725MHz~5850MHz | < -27 |

The measurement is made according to ANSI C63.10 .

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)).

| Frequency of emission (MHz) | Field strength(uV/m) | Field strength(dBuV/m) |
|-----------------------------|----------------------|------------------------|
| 0.009-0.490 | 2400/F(kHz) | / |
| 0.490-1.705 | 24000/F(kHz) | / |
| 1.705-30 | 30 | / |
| 30-88 | 100 | 40 |
| 88-216 | 150 | 43.5 |
| 216-960 | 200 | 46 |
| Above 960 | 500 | 54 |

6.5.1 Transmitter Spurious Emission – Conducted

Modulation type and data rate tested (Only worst case result is given below):

| Mode | Data rate | Channel |
|--------------|-----------|--------------|
| 802.11a | 6Mbps | 149(5745MHz) |
| 802.11n-HT20 | MCS0 | 149(5745MHz) |
| 802.11n-HT40 | MCS0 | 151(5755MHz) |

Measurement Results:

802.11a mode

| MODE | Channel | Frequency Range | Test Results | Conclusion |
|---------|--------------|------------------|--------------|------------|
| 802.11a | 149(5745MHz) | 30 MHz ~ 1 GHz | Fig.17 | P |
| | | 1 GHz ~ 5.7 GHz | Fig.18 | P |
| | | 5.9 GHz ~ 40 GHz | Fig.19 | P |

802.11n-HT20 mode

| MODE | Channel | Frequency Range | Test Results | Conclusion |
|-----------------|--------------|------------------|--------------|------------|
| 802.11n HT20 | 149(5745MHz) | 30 MHz ~ 1 GHz | Fig.20 | P |
| | | 1 GHz ~ 5.7 GHz | Fig.21 | P |
| | | 5.9 GHz ~ 40 GHz | Fig.22 | P |

802.11n-HT40 mode

| MODE | Channel | Frequency Range | Test Results | Conclusion |
|-----------------|--------------|-----------------|--------------|------------|
| 802.11n HT40 | 151(5755MHz) | 30 MHz ~ 1 GHz | Fig.23 | P |
| | | 1 GHz ~ 5.7 GHz | Fig.24 | P |

| | | | |
|--|------------------|--------|---|
| | 5.9 GHz ~ 40 GHz | Fig.25 | P |
|--|------------------|--------|---|

Conclusion: PASS

Test graphs as below:

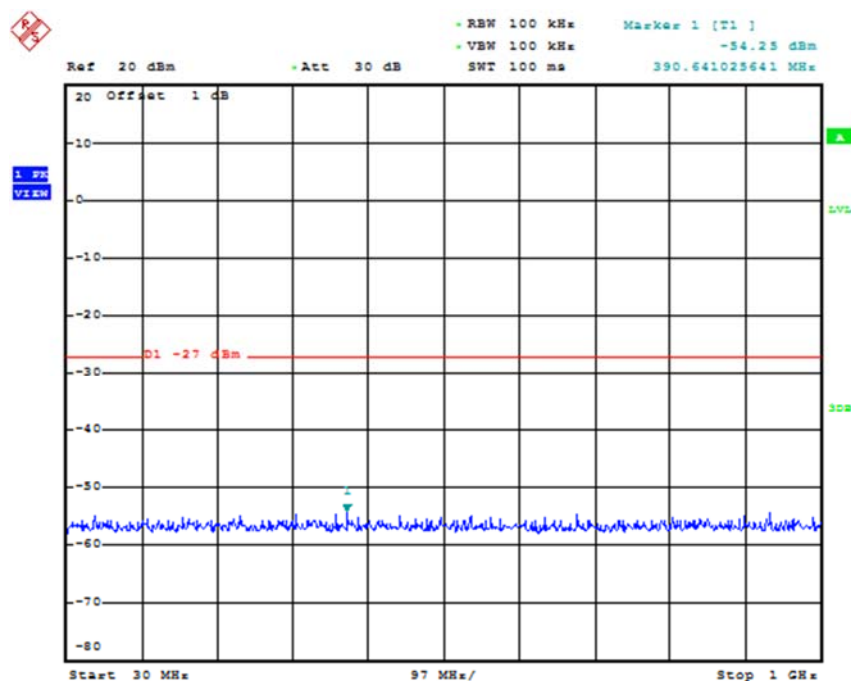


Fig. 17 Conducted Spurious Emission (802.11a, Ch149, 30 MHz-1 GHz)

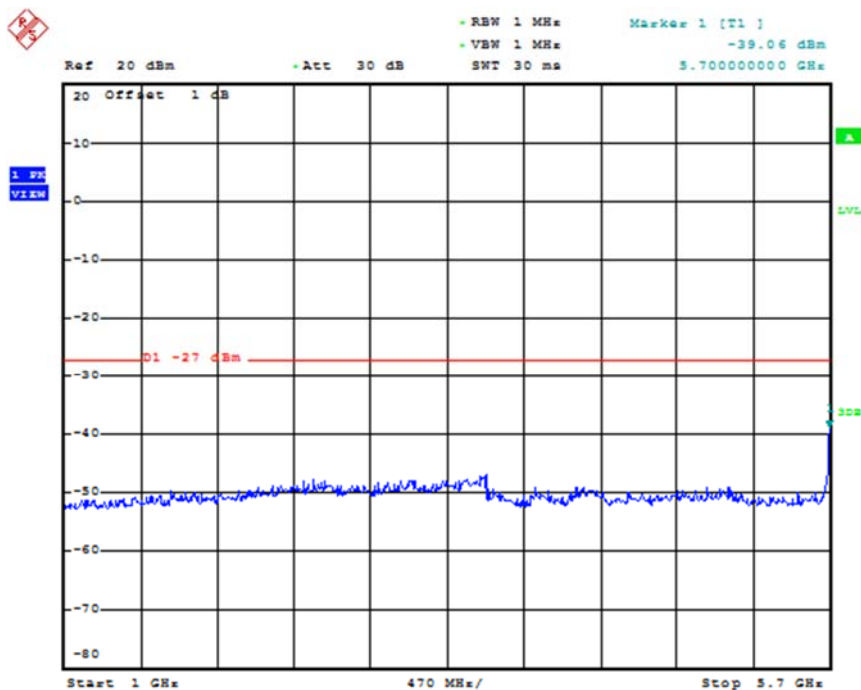


Fig. 18 Conducted Spurious Emission (802.11a, Ch149, 1 GHz -5.7 GHz)

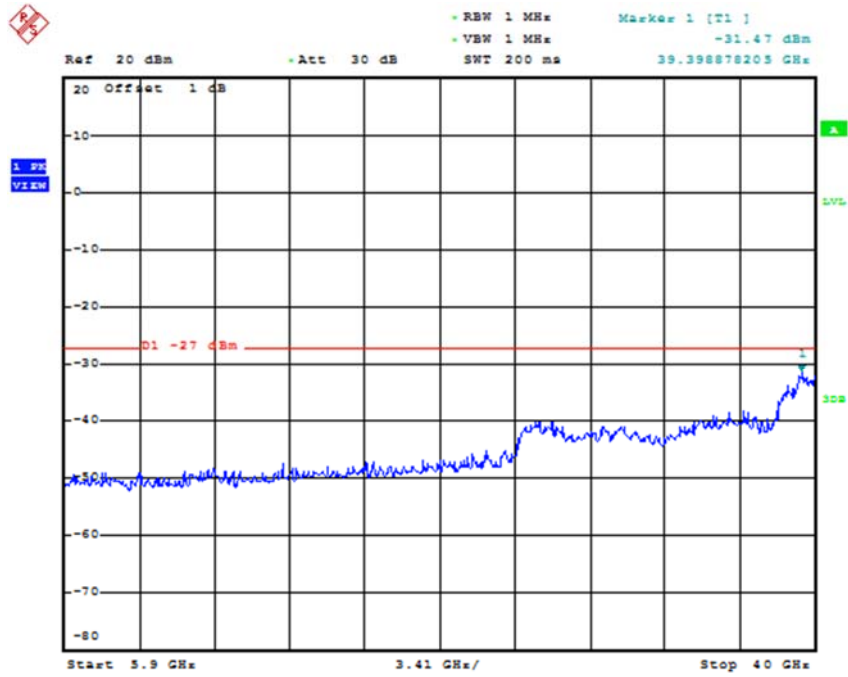


Fig. 19 Conducted Spurious Emission (802.11a, Ch149, 5.9 GHz-40 GHz)

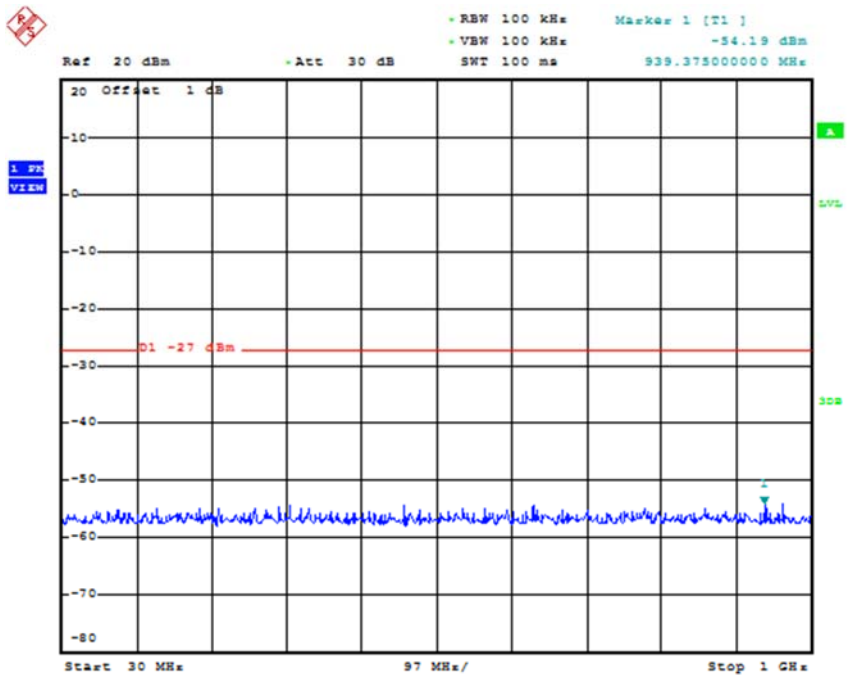


Fig. 20 Conducted Spurious Emission (802.11n-HT20, Ch149, 30 MHz-1 GHz)

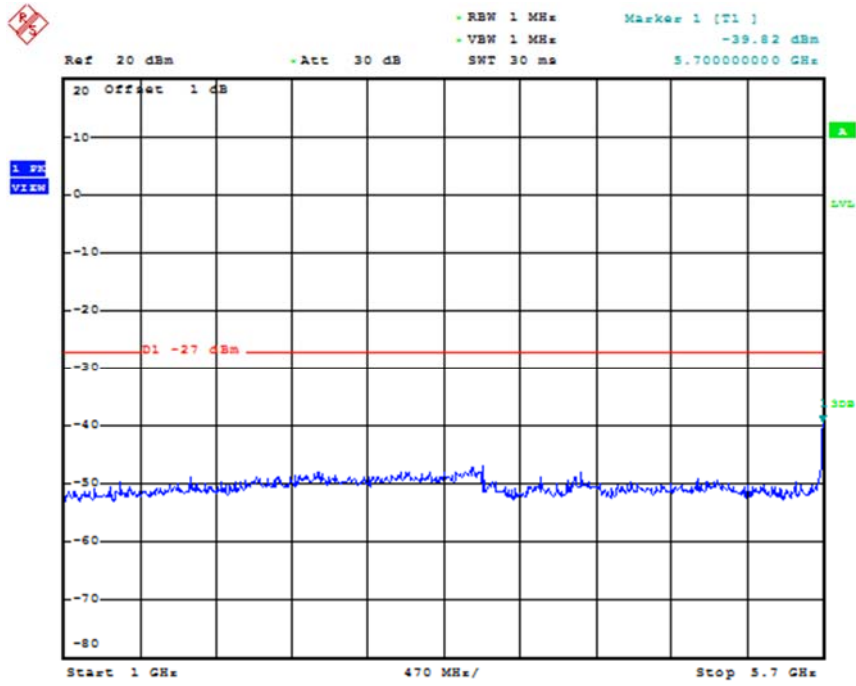


Fig. 21 Conducted Spurious Emission (802.11n-HT20, Ch149, 1 GHz -5.7 GHz)

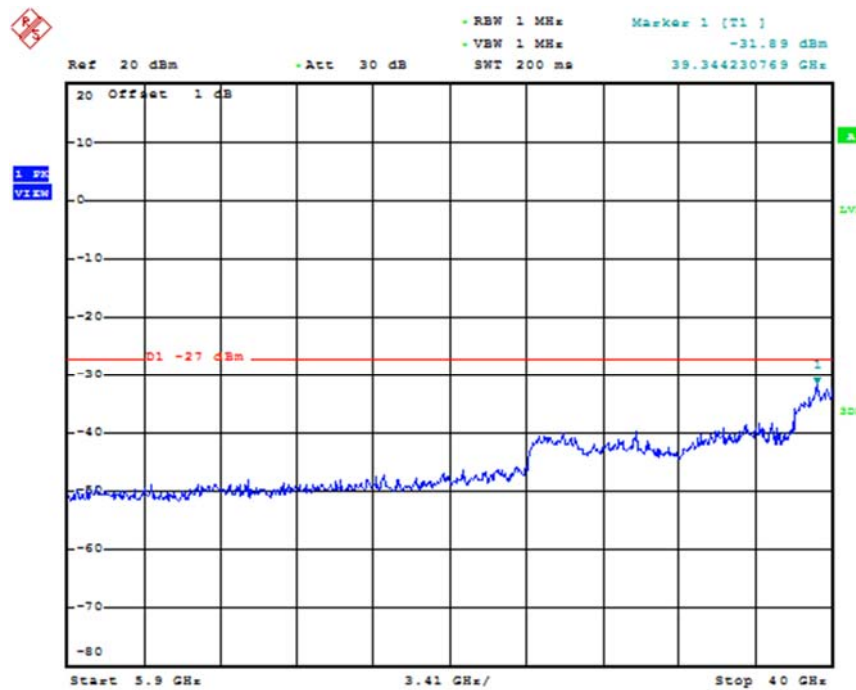


Fig. 22 Conducted Spurious Emission (802.11n-HT20, Ch149, 5.9 GHz-40 GHz)

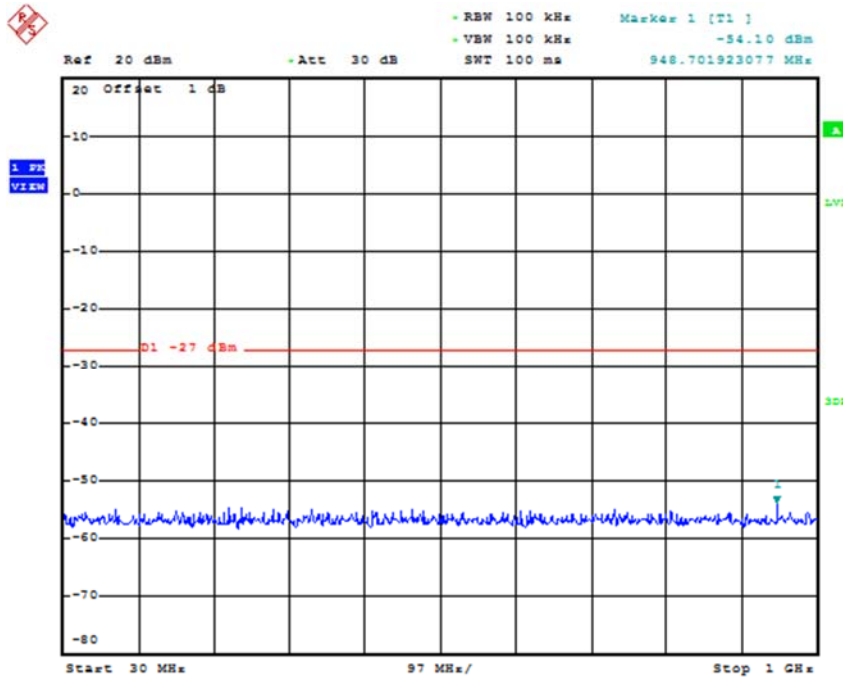


Fig. 23 Conducted Spurious Emission (802.11n-HT40, Ch151, 30 MHz-1 GHz)

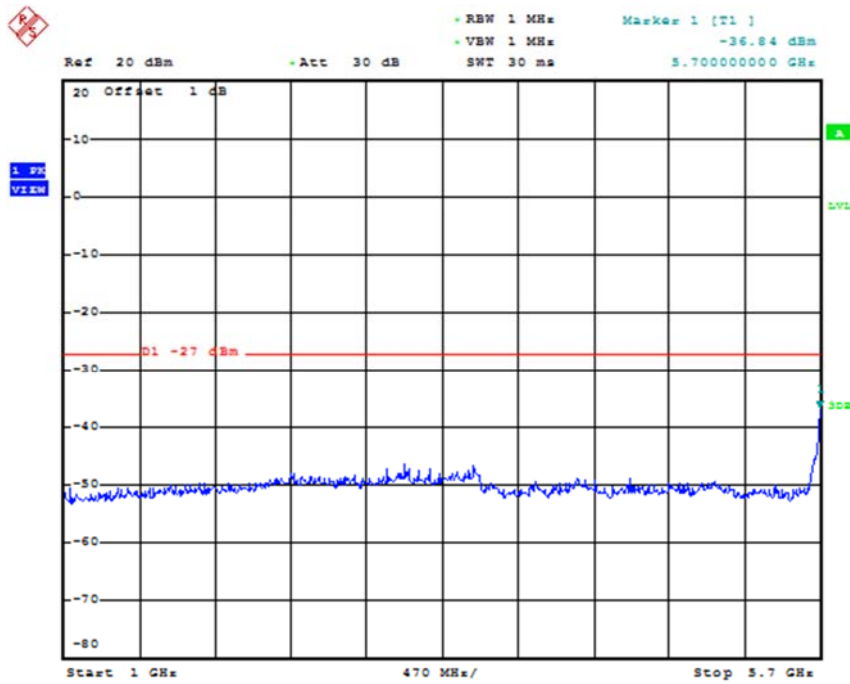


Fig. 24 Conducted Spurious Emission (802.11n-HT40, Ch151, 1 GHz -5.7 GHz)

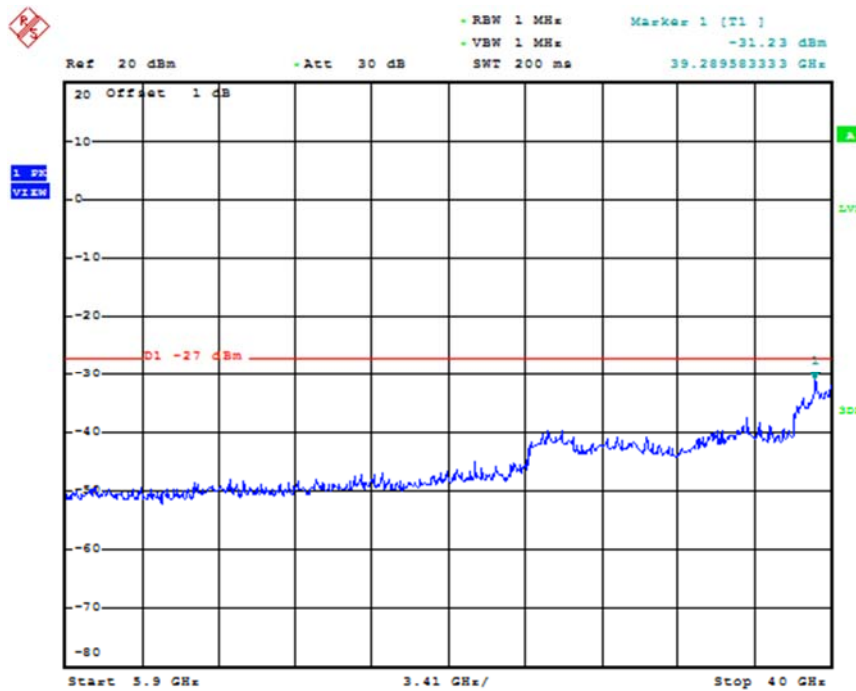


Fig. 25 Conducted Spurious Emission (802.11n-HT40, Ch151, 5.9 GHz-40 GHz)

6.5.2 Transmitter Spurious Emission - Radiated

Modulation type and data rate tested (Only worst case result is given below):

| Mode | Data rate | Channel |
|--------------|-----------|--------------|
| 802.11a | 6Mbps | 149(5745MHz) |
| 802.11n-HT20 | MCS0 | 149(5745MHz) |
| 802.11n-HT40 | MCS0 | 159(5795MHz) |

Measurement Results:

802.11a mode

| Mode | Channel | Frequency Range | Test Results | Conclusion |
|---------|--------------|-------------------|--------------|------------|
| 802.11a | 149(5745MHz) | 30 MHz ~1 GHz | Fig.26 | P |
| | | 1 GHz ~ 8 GHz | Fig.27 | P |
| | | 8 GHz ~ 18 GHz | Fig.28 | P |
| | | 18 GHz ~ 26.5 GHz | Fig.29 | P |
| | | 26.5 GHz~ 40 GHz | Fig.30 | P |

802.11n-HT20 mode

| Mode | Channel | Frequency Range | Test Results | Conclusion |
|-------------------|--------------|-------------------|--------------|------------|
| 802.11n (HT20) | 149(5745MHz) | 30 MHz ~1 GHz | Fig.31 | P |
| | | 1 GHz ~ 8 GHz | Fig.32 | P |
| | | 8 GHz ~ 18 GHz | Fig.33 | P |
| | | 18 GHz ~ 26.5 GHz | Fig.34 | P |
| | | 26.5 GHz~ 40 GHz | Fig.35 | P |

802.11n-HT40 mode

| Mode | Channel | Frequency Range | Test Results | Conclusion |
|-------------------|--------------|-------------------|--------------|------------|
| 802.11n (HT40) | 159(5795MHz) | 30 MHz ~1 GHz | Fig.36 | P |
| | | 1 GHz ~ 8 GHz | Fig.37 | P |
| | | 8 GHz ~ 18 GHz | Fig.38 | P |
| | | 18 GHz ~ 26.5 GHz | Fig.39 | P |
| | | 26.5 GHz~ 40 GHz | Fig.40 | P |

Radiated Spurious Emission (9kHz-30MHz)

| Mode | Channel | Frequency Range | Test Results | Conclusion |
|-------------------|--------------|-----------------|--------------|------------|
| 802.11n (HT40) | 159(5795MHz) | 9kHz ~ 30 MHz | Fig.41 | P |

Conclusion: PASS

Note:

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

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

802.11a

Channel 149(30MHz ~ 1GHz)

| Frequency (MHz) | Result (dB μ V/m) | ARpl (dB) | PMea (dB μ V/m) | Polarity |
|-----------------|-----------------------|-----------|---------------------|----------|
| 33.3 | 30.11 | -22 | 52.11 | V |
| 37.8 | 24.95 | -21.4 | 46.35 | V |
| 42.2 | 20.88 | -20.6 | 41.48 | V |
| 46.2 | 23.12 | -20.2 | 43.32 | V |
| 237.9 | 25.78 | -23.5 | 49.28 | V |
| 478.3 | 31.92 | -17.6 | 49.52 | H |

Channel 149 (1GHz ~ 8GHz)

| Frequency (MHz) | Result (dB μ V/m) | ARpl (dB) | PMea (dB μ V/m) | Polarity |
|-----------------|-----------------------|-----------|---------------------|----------|
| 5996.2 | 45.25 | 4.6 | 40.65 | H |
| 6413.2 | 45.76 | 5.7 | 40.06 | H |
| 6664.0 | 47.09 | 6.5 | 40.59 | H |
| 6984.6 | 46.49 | 7.2 | 39.29 | H |
| 7600.0 | 46.86 | 7.6 | 39.26 | H |

| | | | | |
|--------|-------|-----|-------|---|
| 7890.2 | 48.22 | 8.8 | 39.42 | H |
|--------|-------|-----|-------|---|

Channel 149 (8GHz ~ 18GHz) (Peak)

| Frequency (MHz) | Result (dB μ V/m) | ARpl (dB) | PMea (dB μ V/m) | Polarity |
|-----------------|-----------------------|-----------|---------------------|----------|
| 13692.8 | 53.95 | 18.8 | 35.15 | H |
| 14321.4 | 54.39 | 19 | 35.39 | H |
| 15609.0 | 56.46 | 21.4 | 35.06 | H |
| 16024.8 | 56.35 | 22.4 | 33.95 | H |
| 16709.6 | 56.73 | 23.6 | 33.13 | H |
| 17250.6 | 56.95 | 24.2 | 32.75 | H |

Channel 149 (8GHz ~ 18GHz) (Average)

| Frequency (MHz) | Result (dB μ V/m) | ARpl (dB) | PMea (dB μ V/m) | Polarity |
|-----------------|-----------------------|-----------|---------------------|----------|
| 14321.4 | 41.21 | 19 | 22.21 | H |
| 15609.0 | 43.26 | 21.4 | 21.86 | H |
| 16024.8 | 44.27 | 22.4 | 21.87 | H |
| 16709.6 | 44.03 | 23.6 | 20.43 | H |
| 17250.6 | 44.43 | 24.2 | 20.23 | H |

Channel 149 (18GHz ~ 26.5GHz)

| Frequency (MHz) | Result (dB μ V/m) | ARpl (dB) | PMea (dB μ V/m) | Polarity |
|-----------------|-----------------------|-----------|---------------------|----------|
| 19031.0 | 40.22 | -5.5 | 45.72 | H |
| 20104.6 | 40.39 | -4.8 | 45.19 | V |
| 21659.2 | 44.36 | -3.4 | 47.76 | H |
| 22272.1 | 43.05 | -3.1 | 46.15 | V |
| 23589.6 | 43.92 | -2.8 | 46.72 | H |
| 24177.8 | 44.73 | -2.9 | 47.63 | H |

Channel 149 (26.5GHz ~ 40GHz)

| Frequency (MHz) | Result (dB μ V/m) | ARpl (dB) | PMea (dB μ V/m) | Polarity |
|-----------------|-----------------------|-----------|---------------------|----------|
| 27936.4 | 44.49 | -0.3 | 44.79 | H |
| 30186.8 | 45.09 | -1 | 46.09 | V |
| 33012.4 | 45.15 | 1.1 | 44.05 | V |

| | | | | |
|---------|-------|-----|-------|---|
| 34419.1 | 46.59 | 1.3 | 45.29 | V |
| 35739.4 | 46.84 | 1.3 | 45.54 | H |
| 38628.4 | 48.38 | 2.9 | 45.48 | H |

802.11n-HT20

Channel 149(30MHz ~ 1GHz)

| Frequency (MHz) | Result (dB μ V/m) | ARpl (dB) | PMea (dB μ V/m) | Polarity |
|-----------------|-----------------------|-----------|---------------------|----------|
| 33.9 | 27.54 | -22 | 49.54 | V |
| 35.9 | 22.27 | -21.9 | 44.17 | V |
| 46.1 | 24.34 | -20.2 | 44.54 | V |
| 60.0 | 21.59 | -22.3 | 43.89 | V |
| 112.7 | 19.11 | -24.3 | 43.41 | H |
| 476.8 | 28.08 | -17.5 | 45.58 | H |

Channel 149 (1GHz ~ 8GHz)

| Frequency (MHz) | Result (dB μ V/m) | ARpl (dB) | PMea (dB μ V/m) | Polarity |
|-----------------|-----------------------|-----------|---------------------|----------|
| 6000.8 | 44.47 | 4.6 | 39.87 | H |
| 6116.0 | 44.91 | 4.9 | 40.01 | V |
| 6618.6 | 46.64 | 6.4 | 40.24 | H |
| 6869.0 | 47.25 | 6.9 | 40.35 | H |
| 7313.0 | 46.64 | 7.4 | 39.24 | H |
| 7869.4 | 48.75 | 8.6 | 40.15 | V |

Channel 149 (8GHz ~ 18GHz) (Peak)

| Frequency (MHz) | Result (dB μ V/m) | ARpl (dB) | PMea (dB μ V/m) | Polarity |
|-----------------|-----------------------|-----------|---------------------|----------|
| 15375.2 | 53.77 | 21 | 32.77 | H |
| 15708.6 | 55.62 | 21.8 | 33.82 | H |
| 16298.0 | 55.73 | 22.6 | 33.13 | H |
| 16834.6 | 55.53 | 23.4 | 32.13 | H |
| 17266.8 | 56.19 | 24.2 | 31.99 | H |
| 17757.6 | 56.38 | 24.2 | 32.18 | H |

Channel 149 (8GHz ~ 18GHz) (Average)

| Frequency (MHz) | Result (dB μ V/m) | ARpl (dB) | PMea (dB μ V/m) | Polarity |
|-----------------|-----------------------|-----------|---------------------|----------|
| 15708.6 | 43.66 | 21.8 | 21.86 | H |
| 16298.0 | 43.43 | 22.6 | 20.83 | H |
| 16834.6 | 43.5 | 23.4 | 20.1 | H |
| 17266.8 | 44.24 | 24.2 | 20.04 | H |
| 17757.6 | 44.13 | 24.2 | 19.93 | H |

Channel 149 (18GHz ~ 26.5GHz)

| Frequency (MHz) | Result (dB μ V/m) | ARpl (dB) | PMea (dB μ V/m) | Polarity |
|-----------------|-----------------------|-----------|---------------------|----------|
| 21011.6 | 41.68 | -4.1 | 45.78 | V |
| 22495.6 | 43.91 | -3.1 | 47.01 | V |
| 23349.0 | 44.18 | -2.6 | 46.78 | H |
| 24764.3 | 44.46 | -2.2 | 46.66 | V |
| 25491.9 | 44.48 | -2.9 | 47.38 | V |
| 26038.4 | 46.66 | -2 | 48.66 | V |

Channel 149 (26.5GHz ~ 40GHz)

| Frequency (MHz) | Result (dB μ V/m) | ARpl (dB) | PMea (dB μ V/m) | Polarity |
|-----------------|-----------------------|-----------|---------------------|----------|
| 27981.0 | 44.86 | -0.3 | 45.16 | H |
| 30826.8 | 45.34 | 0.3 | 45.04 | H |
| 33443.0 | 45.05 | 1.2 | 43.85 | V |
| 35358.7 | 47.92 | 1.6 | 46.32 | V |
| 36799.2 | 47.58 | 2.4 | 45.18 | H |
| 38151.8 | 46.46 | 1.8 | 44.66 | V |

802.11n-HT40

Channel 159(30MHz ~ 1GHz)

| Frequency (MHz) | Result (dB μ V/m) | ARpl (dB) | PMea (dB μ V/m) | Polarity |
|-----------------|-----------------------|-----------|---------------------|----------|
| 34.5 | 18.95 | -22 | 40.95 | V |
| 45.4 | 23.88 | -20.2 | 44.08 | V |
| 113.6 | 25.1 | -24.1 | 49.2 | V |
| 244.3 | 22.38 | -22.9 | 45.28 | H |

| | | | | |
|-------|-------|-------|-------|---|
| 476.8 | 25.37 | -17.4 | 42.77 | H |
| 925.3 | 38.05 | -9 | 47.05 | V |

Channel 159(1GHz ~ 8GHz)

| Frequency (MHz) | Result (dB μ V/m) | ARpl (dB) | PMea (dB μ V/m) | Polarity |
|-----------------|-----------------------|-----------|---------------------|----------|
| 5996.0 | 45.72 | 4.6 | 41.12 | H |
| 6366.4 | 46.26 | 5.6 | 40.66 | H |
| 6761.4 | 47.59 | 6.7 | 40.89 | H |
| 7155.6 | 46.27 | 7.2 | 39.07 | V |
| 7653.6 | 48.39 | 7.9 | 40.49 | V |
| 7905.8 | 48.63 | 8.8 | 39.83 | H |

Channel 159(8GHz ~ 18GHz) (Peak)

| Frequency (MHz) | Result (dB μ V/m) | ARpl (dB) | PMea (dB μ V/m) | Polarity |
|-----------------|-----------------------|-----------|---------------------|----------|
| 15126.2 | 54.97 | 20.6 | 34.37 | H |
| 15703.4 | 55.68 | 21.8 | 33.88 | H |
| 16025.0 | 56.64 | 22.4 | 34.24 | H |
| 16426.8 | 54.92 | 22.9 | 32.02 | H |
| 16929.6 | 56.48 | 23.5 | 32.98 | H |
| 17628.2 | 56.57 | 24.5 | 32.07 | H |

Channel 159(8GHz ~ 18GHz) (Average)

| Frequency (MHz) | Result (dB μ V/m) | ARpl (dB) | PMea (dB μ V/m) | Polarity |
|-----------------|-----------------------|-----------|---------------------|----------|
| 15126.2 | 42.95 | 20.6 | 22.35 | H |
| 15703.4 | 43.57 | 21.8 | 21.77 | H |
| 16025.0 | 44.22 | 22.4 | 21.82 | H |
| 16426.8 | 43.16 | 22.9 | 20.26 | H |
| 16929.6 | 44.31 | 23.5 | 20.81 | H |
| 17628.2 | 44.73 | 24.5 | 20.23 | H |

Channel 159(18GHz ~ 26.5GHz)

| Frequency (MHz) | Result (dB μ V/m) | ARpl (dB) | PMea (dB μ V/m) | Polarity |
|-----------------|-----------------------|-----------|---------------------|----------|
| 19517.2 | 40.02 | -5.3 | 45.32 | H |

| | | | | |
|---------|-------|------|-------|---|
| 21026.0 | 41.89 | -4.1 | 45.99 | H |
| 21753.6 | 44.04 | -3.4 | 47.44 | V |
| 23062.6 | 44.25 | -3 | 47.25 | V |
| 24147.2 | 43.96 | -2.8 | 46.76 | H |
| 24686.1 | 44.87 | -2.3 | 47.17 | V |

Channel 159(26.5GHz ~ 40GHz)

| Frequency (MHz) | Result (dB μ V/m) | ARpl (dB) | PMea (dB μ V/m) | Polarity |
|-----------------|-----------------------|-----------|---------------------|----------|
| 28440.0 | 43.57 | -1.2 | 44.77 | V |
| 30752.5 | 45.76 | 0.1 | 45.66 | V |
| 31680.0 | 44.79 | 0.5 | 44.29 | V |
| 33522.7 | 45.1 | 1.3 | 43.8 | V |
| 36128.2 | 46.12 | 0.4 | 45.72 | H |
| 38246.4 | 47.22 | 2 | 45.22 | H |

Test graphs as below:

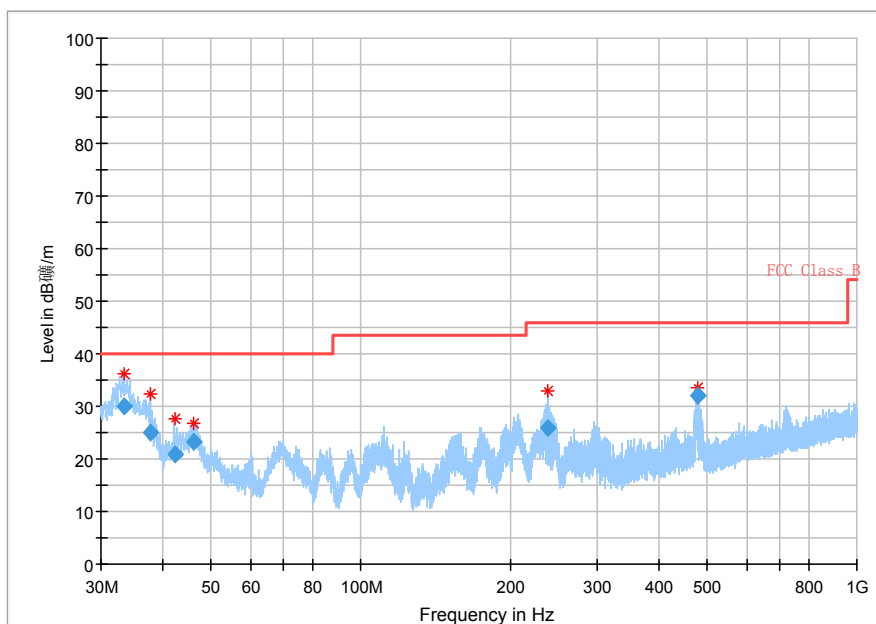


Fig. 26 Radiated Spurious Emission (802.11a, Ch149, 30 MHz-1 GHz)

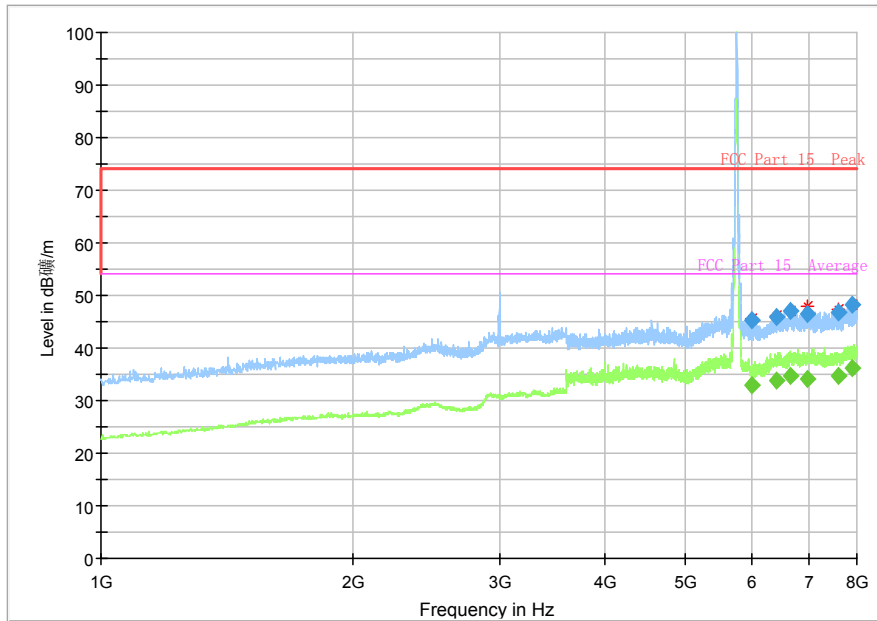


Fig. 27 Radiated Spurious Emission (802.11a, Ch149, 1 GHz-8 GHz)

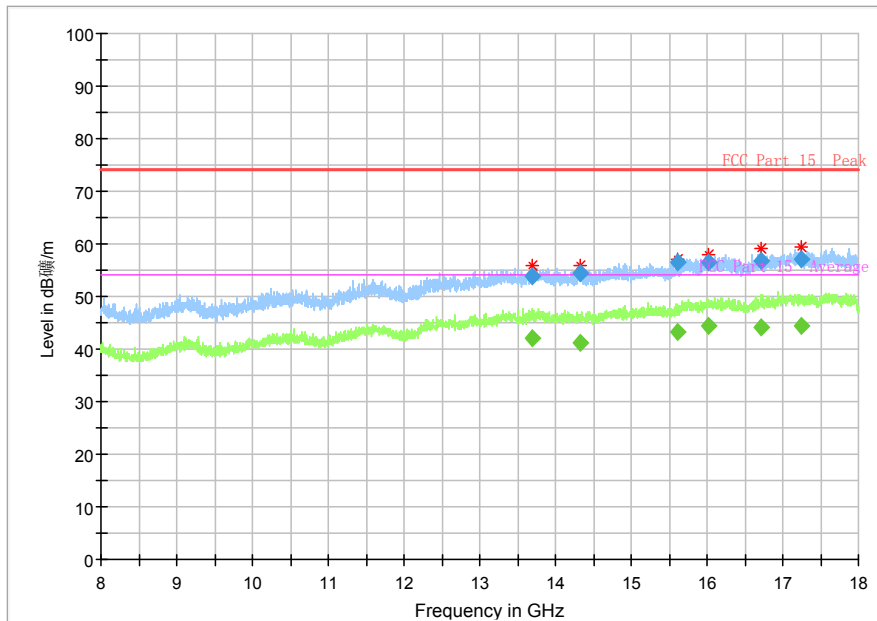


Fig. 28 Radiated Spurious Emission (802.11a, Ch149, 8 GHz-18 GHz)

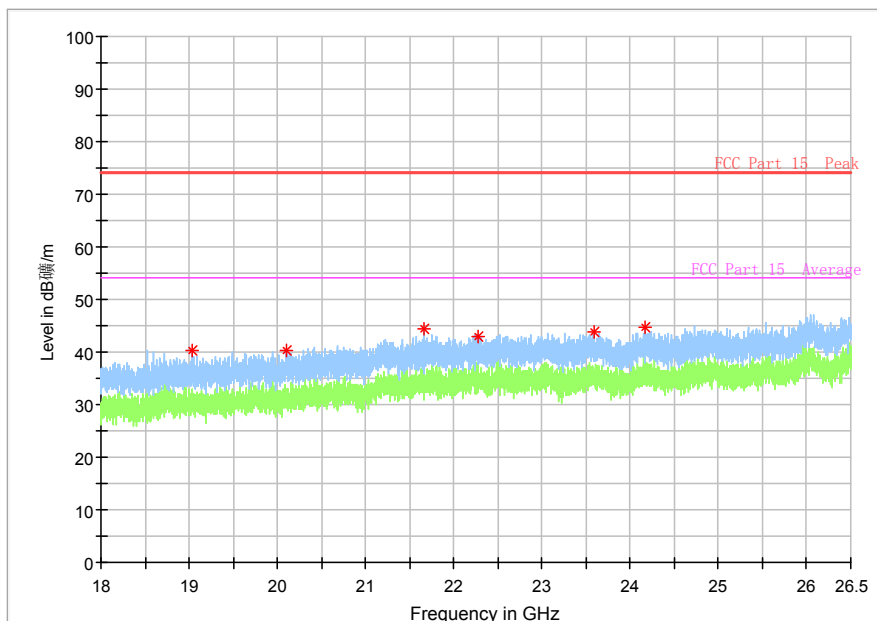


Fig. 29 Radiated Spurious Emission (802.11a, Ch149, 18 GHz-26.5 GHz)

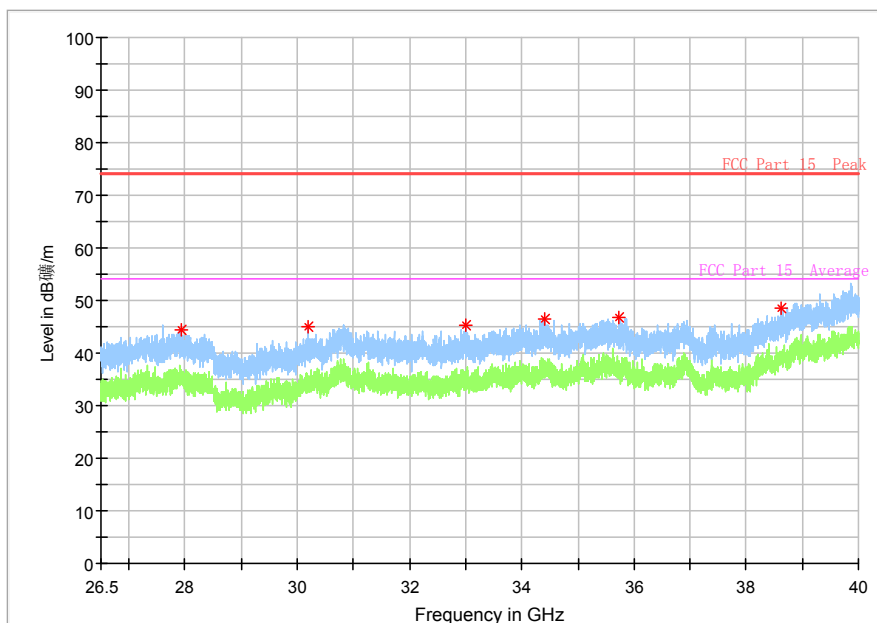


Fig. 30 Radiated Spurious Emission (802.11a, Ch149, 26.5 GHz - 40 GHz)

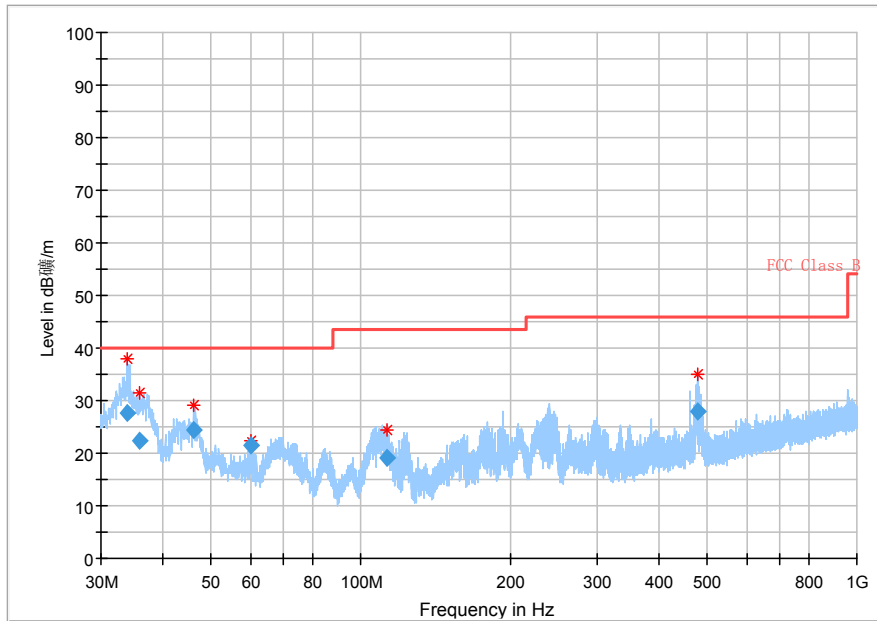


Fig. 31 Radiated Spurious Emission (802.11n-HT20, Ch149, 30 MHz-1 GHz)

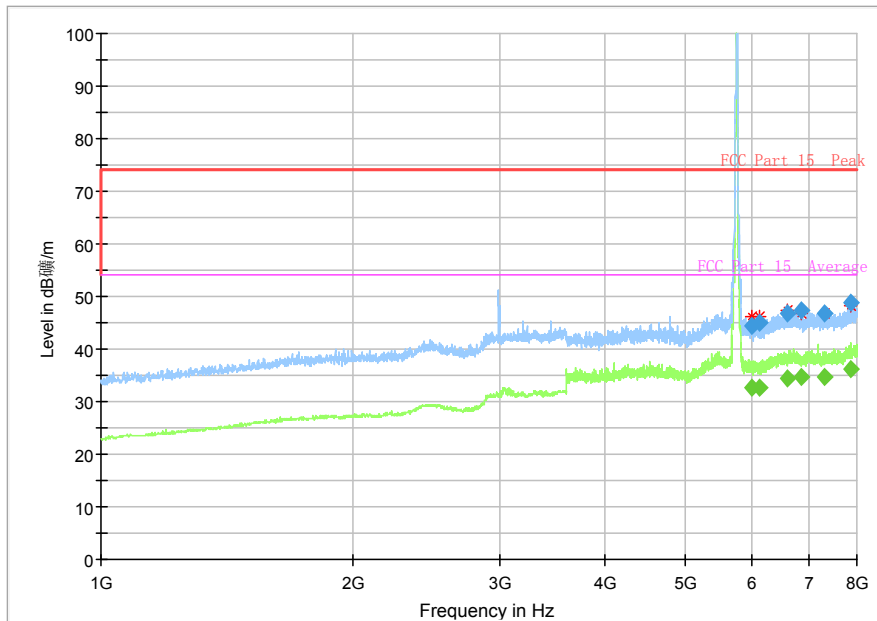


Fig. 32 Radiated Spurious Emission (802.11n-HT20, Ch149, 1 GHz-8 GHz)

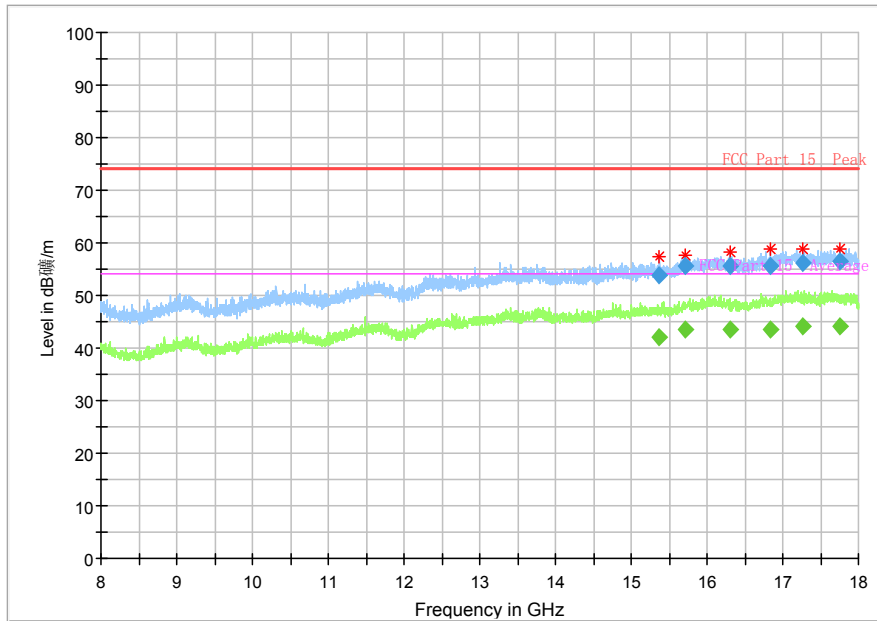


Fig. 33 Radiated Spurious Emission (802.11n-HT20, Ch149, 8 GHz-18 GHz)

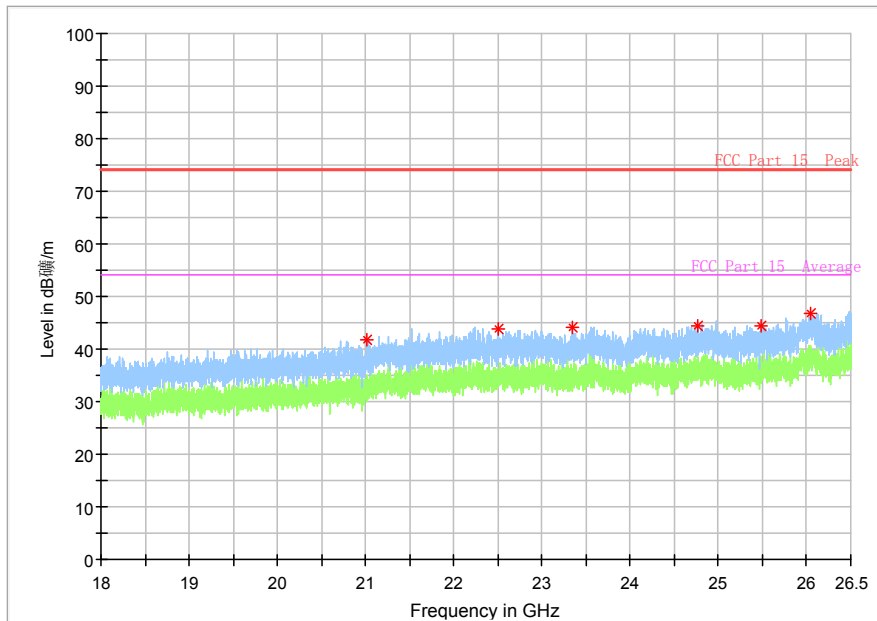


Fig. 34 Radiated Spurious Emission (802.11n-HT20, Ch149, 18 GHz-26.5 GHz)

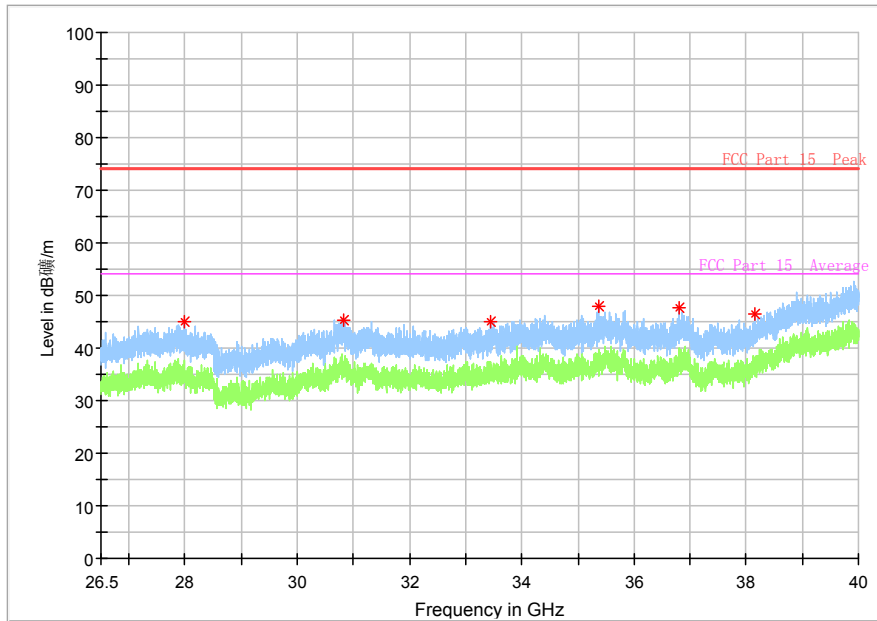


Fig. 35 Radiated Spurious Emission (802.11n-HT20, Ch149, 26.5 GHz - 40 GHz)

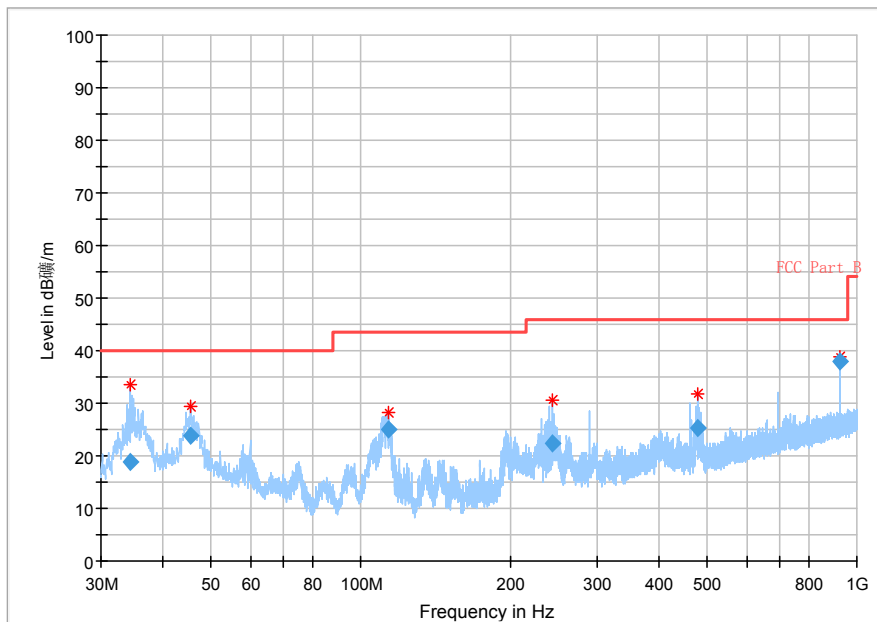


Fig. 36 Radiated Spurious Emission (802.11n-HT40, Ch159, 30 MHz-1 GHz)

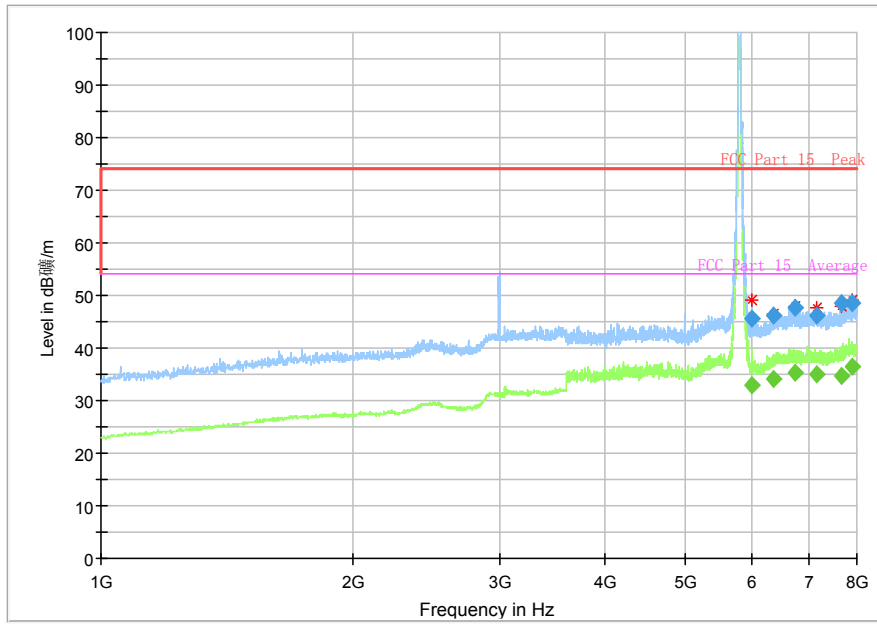


Fig. 37 Radiated Spurious Emission (802.11n-HT40, Ch159, 1 GHz-8 GHz)

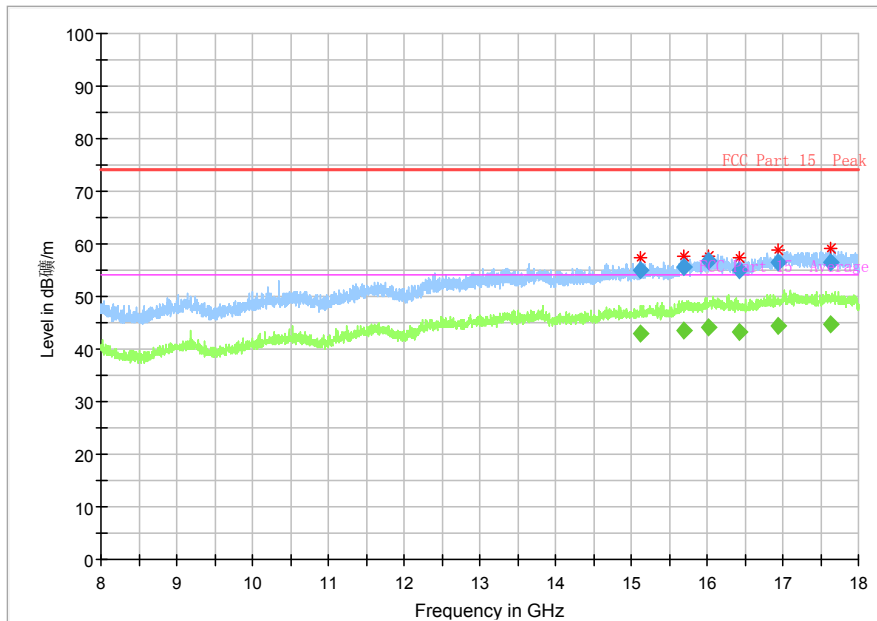


Fig. 38 Radiated Spurious Emission (802.11n-HT40, Ch159, 8 GHz-18 GHz)

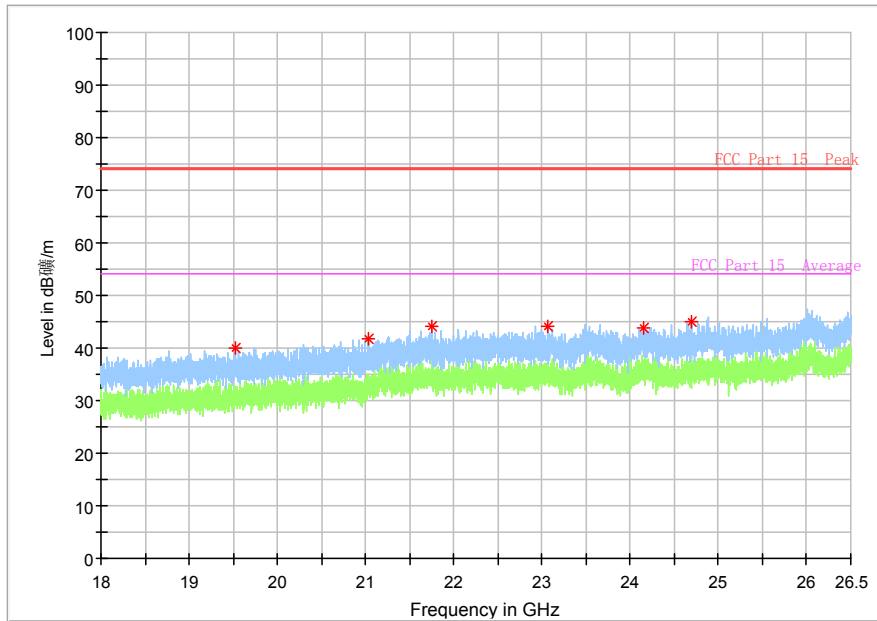


Fig. 39 Radiated Spurious Emission (802.11n-HT40, Ch159, 18 GHz-26.5 GHz)

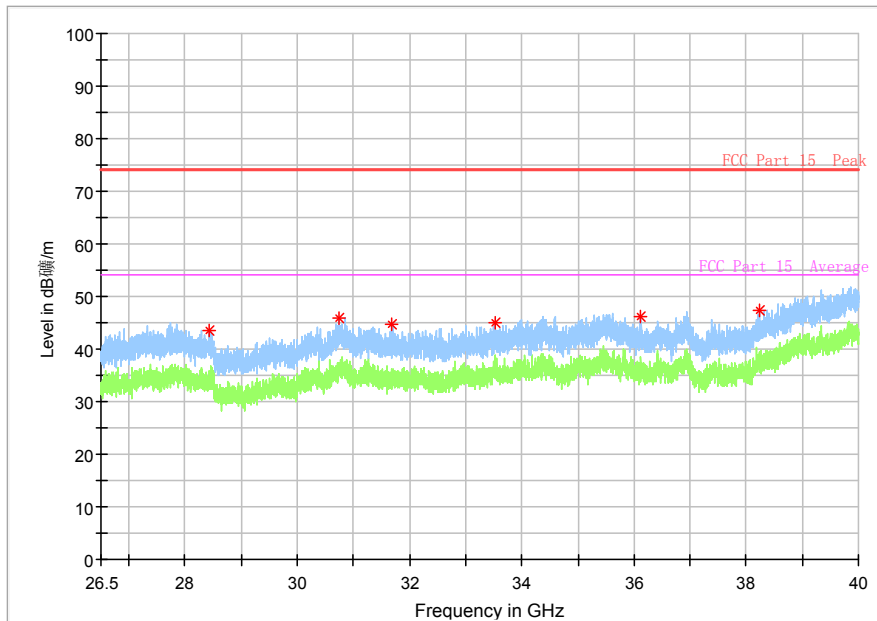


Fig. 40 Radiated Spurious Emission (802.11n-HT40, Ch159, 26.5 GHz - 40 GHz)

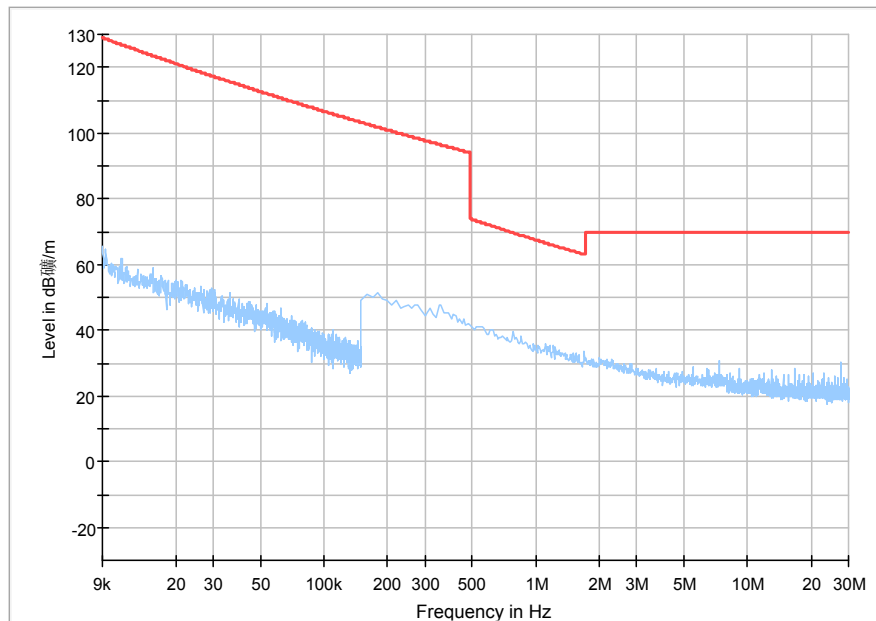


Fig. 41 Radiated Spurious Emission (9kHz-30MHz)

6.6. Band Edges Compliance

Band Edges - Radiated

Measurement Limit:

- (1) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
- (2) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (5) 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)).

| Frequency (MHz) | Field strength (microvolts/meter) | 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 |

| MHz | MHz | MHz | GHz |
|-------------------|---------------------|---------------|-------------|
| 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 |
| 0.495-0.505 | 16.69475-16.69525 | 608-614 | 5.35-5.46 |
| 2.1735-2.1905 | 16.80425-16.80475 | 960-1240 | 7.25-7.75 |
| 4.125-4.128 | 25.5-25.67 | 1300-1427 | 8.025-8.5 |
| 4.17725-4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 |
| 4.20725-4.20775 | 73-74.6 | 1645.5-1646.5 | 9.3-9.5 |
| 6.215-6.218 | 74.8-75.2 | 1660-1710 | 10.6-12.7 |
| 6.26775-6.26825 | 108-121.94 | 1718.8-1722.2 | 13.25-13.4 |
| 6.31175-6.31225 | 123-138 | 2200-2300 | 14.47-14.5 |
| 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 |
| 8.362-8.366 | 156.52475-156.52525 | 2483.5-2500 | 17.7-21.4 |
| 8.37625-8.38675 | 156.7-156.9 | 2690-2900 | 22.01-23.12 |
| 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 |
| 12.29-12.293 | 167.72-173.2 | 3332-3339 | 31.2-31.8 |
| 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 |
| 12.57675-12.57725 | 322-335.4 | 3600-4400 | (2) |
| 13.36-13.41 | | | |

Set the spectrum analyzer in the following:

(a) Sweep mode :SweepAnalyzer6db.

(b) PEAK: RBW=1MHz / VBW=3MHz / Sweep=2.5ms, Sweep point;5001

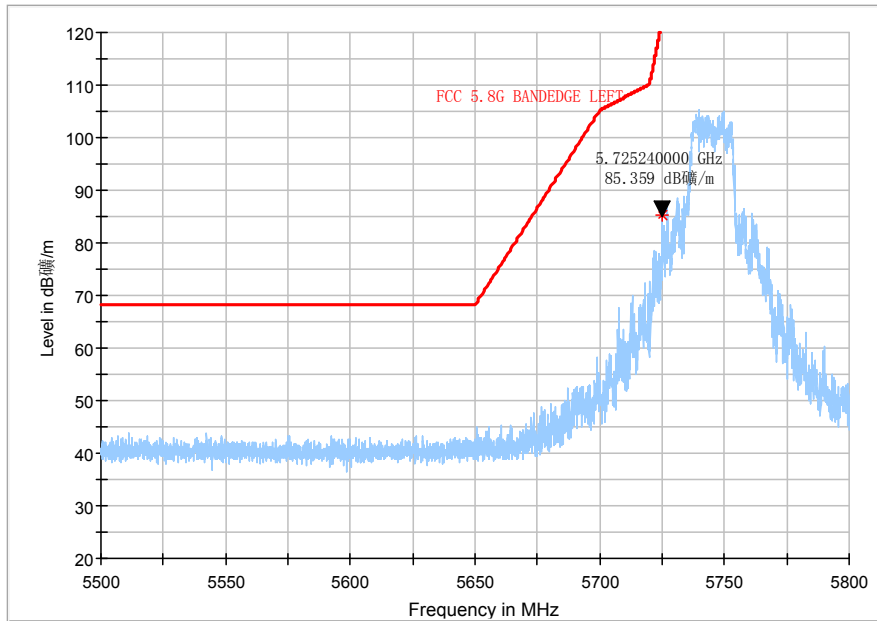
(c) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=2.5ms, Sweep point;5001

Measurement Result:

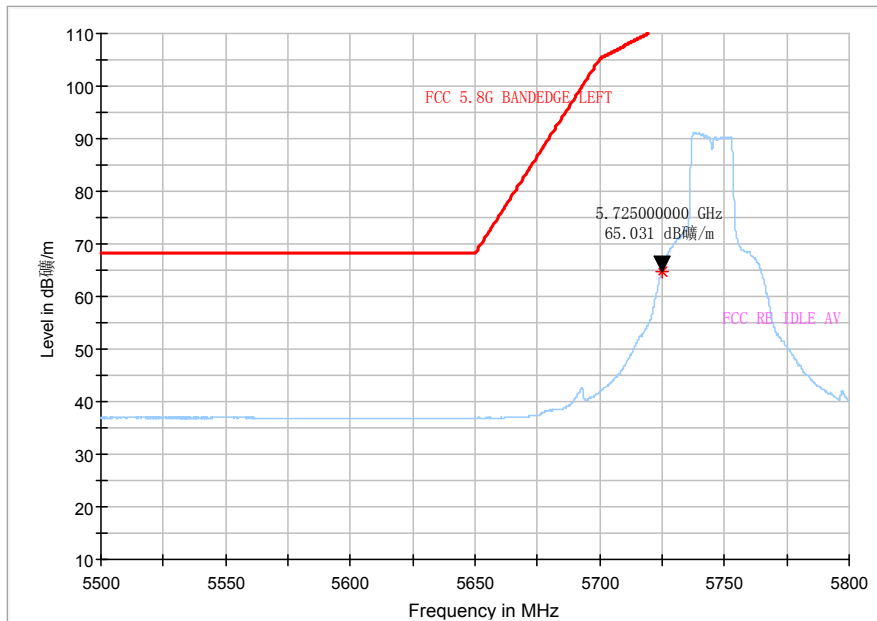
| Mode | Channel | Test Results | Conclusion |
|-----------------|----------|--------------|------------|
| 802.11a | 5745 MHz | Fig.42 | P |
| | 5825 MHz | Fig.43 | P |
| 802.11n HT20 | 5745 MHz | Fig.44 | P |
| | 5825 MHz | Fig.45 | P |
| 802.11n HT40 | 5755 MHz | Fig.46 | P |
| | 5795 MHz | Fig.47 | P |

Conclusion: PASS

Test graphs as below:

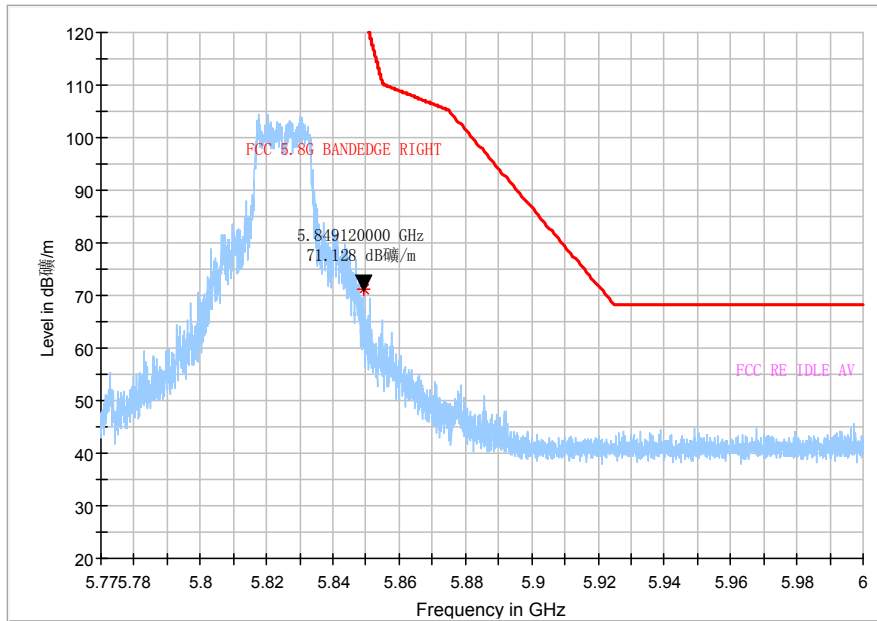


Peak

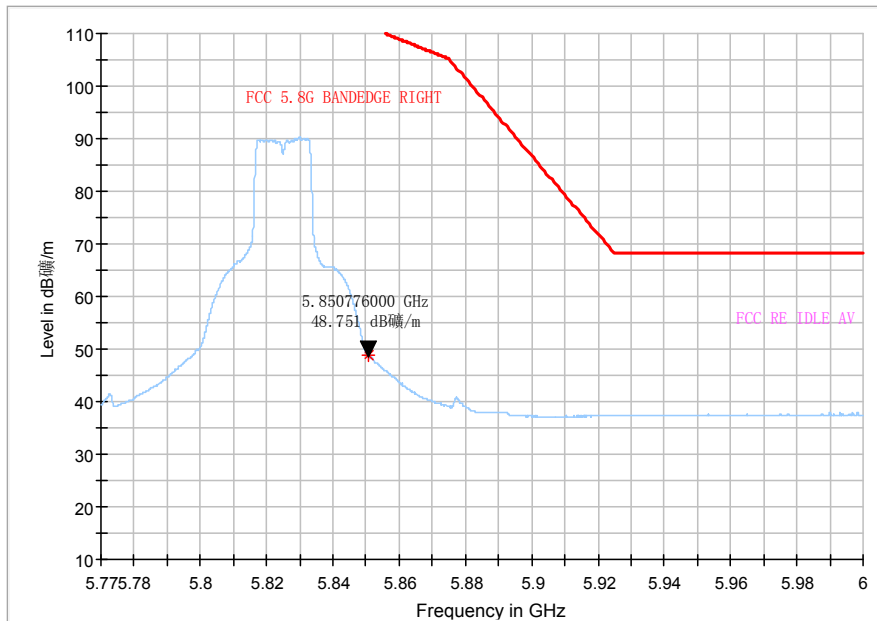


Average

Fig. 42 Band Edges (802.11a, 5745MHz)

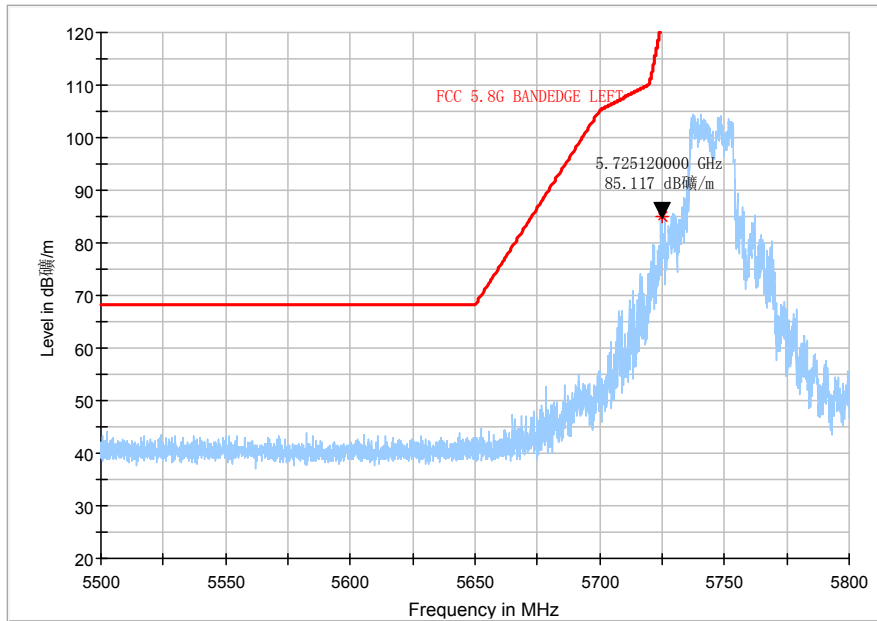


Peak

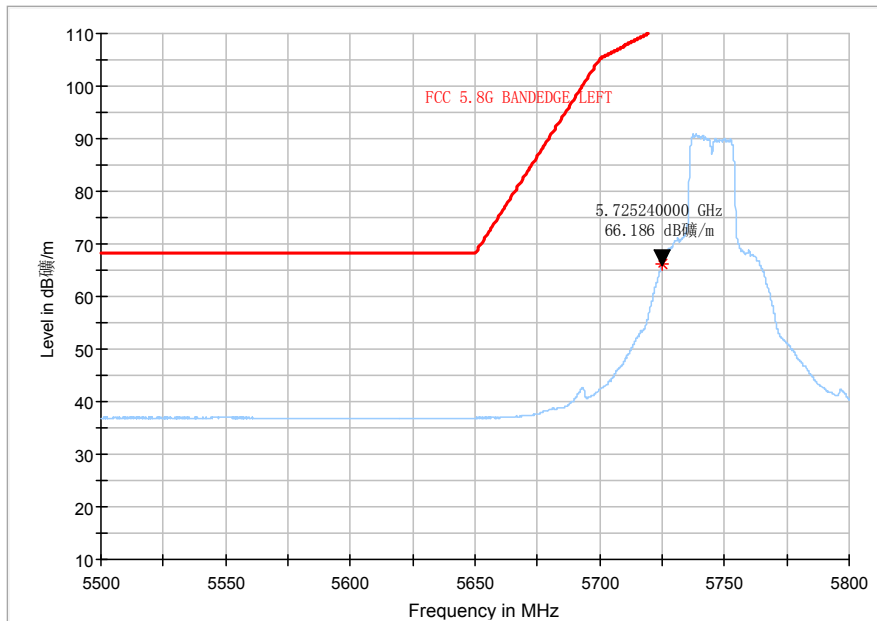


Average

Fig. 43 Band Edges (802.11a, 5825MHz)

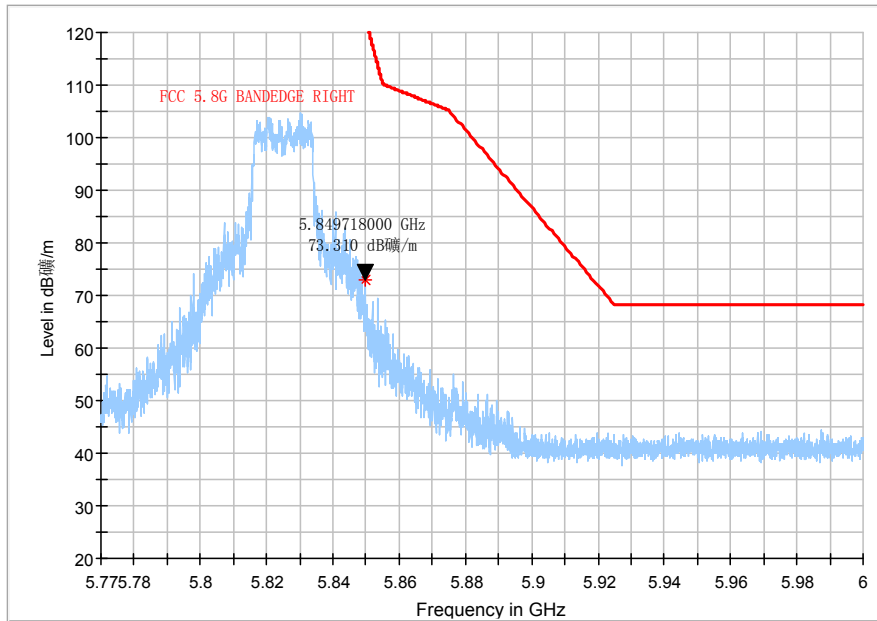


Peak

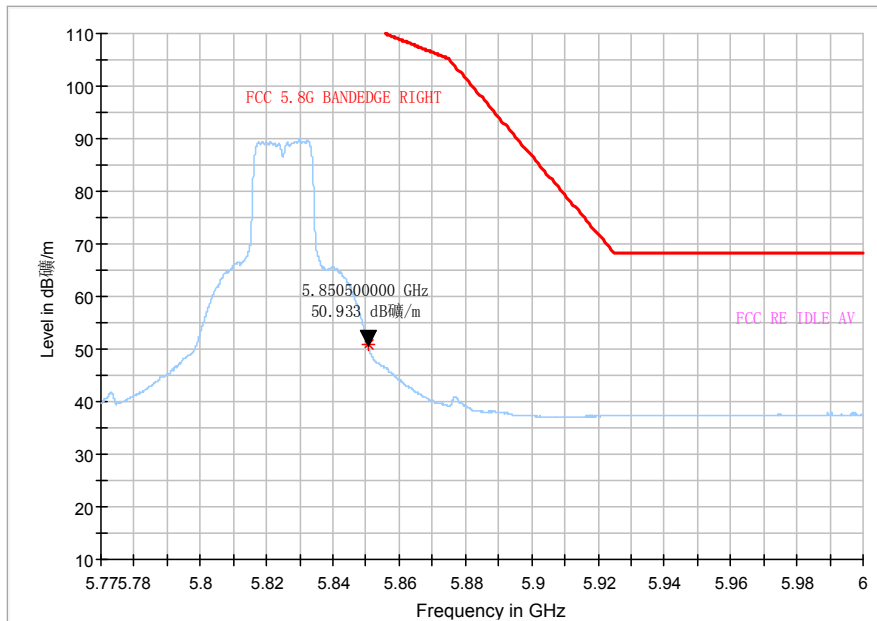


Average

Fig. 44 Band Edges (802.11n-HT20, 5745MHz)

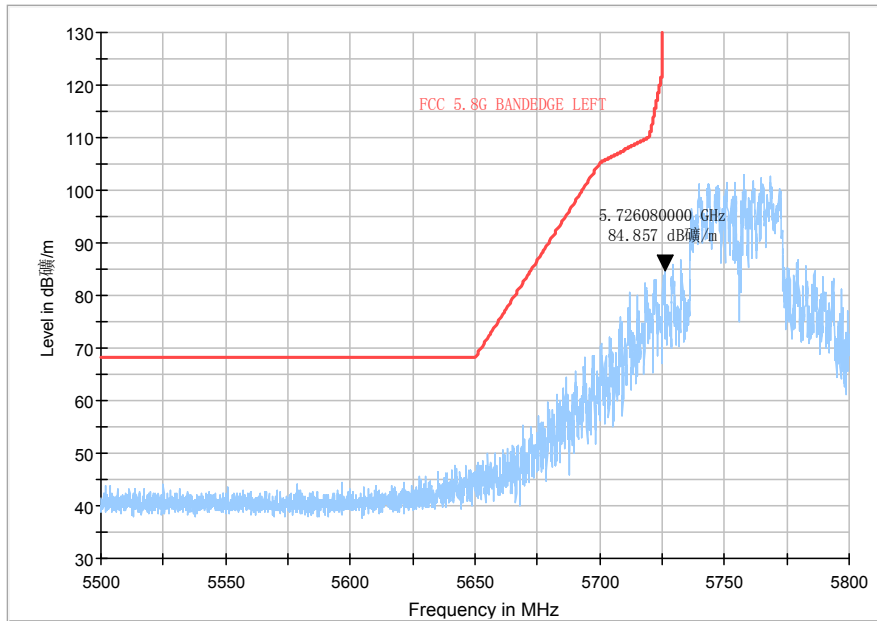


Peak

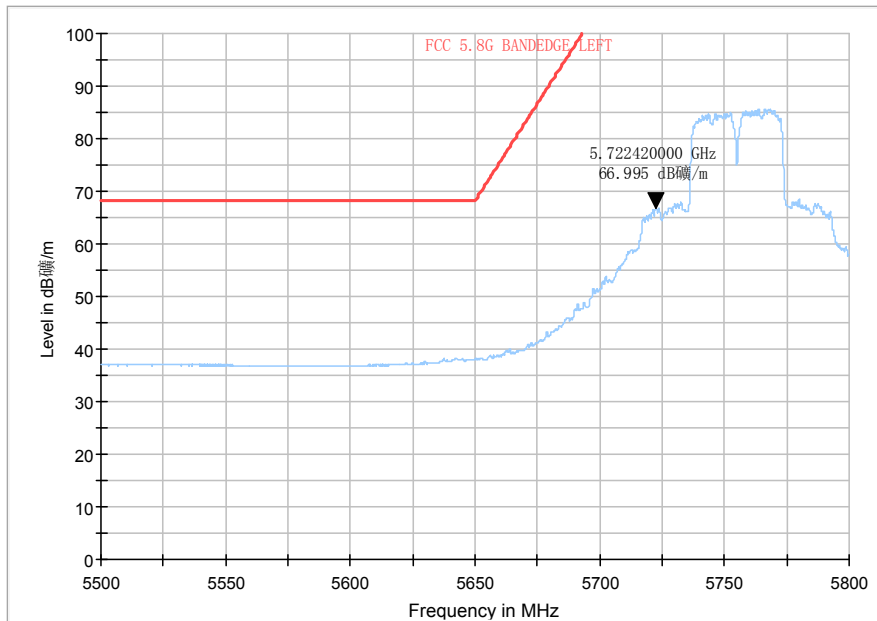


Average

Fig. 45 Band Edges (802.11n-HT20, 5825MHz)

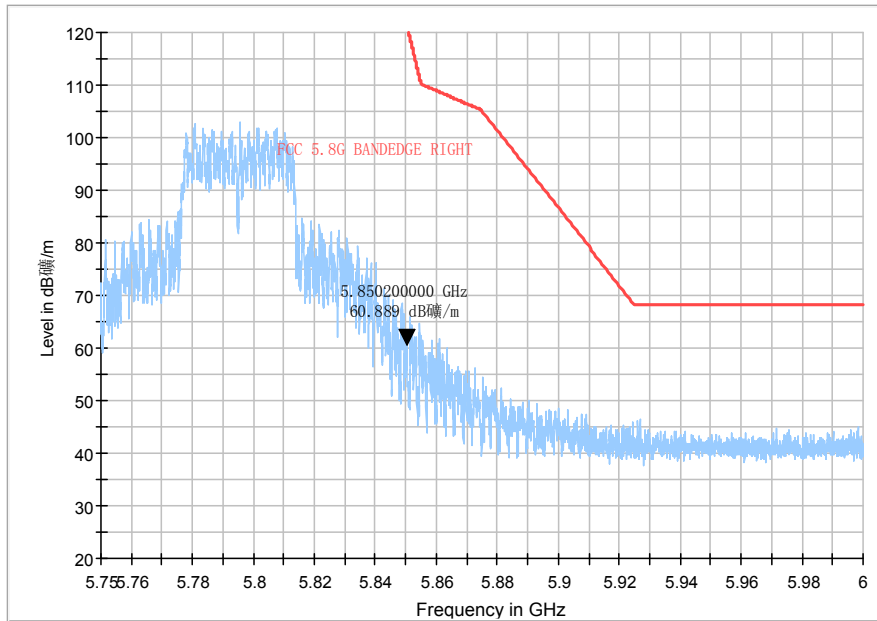


Peak

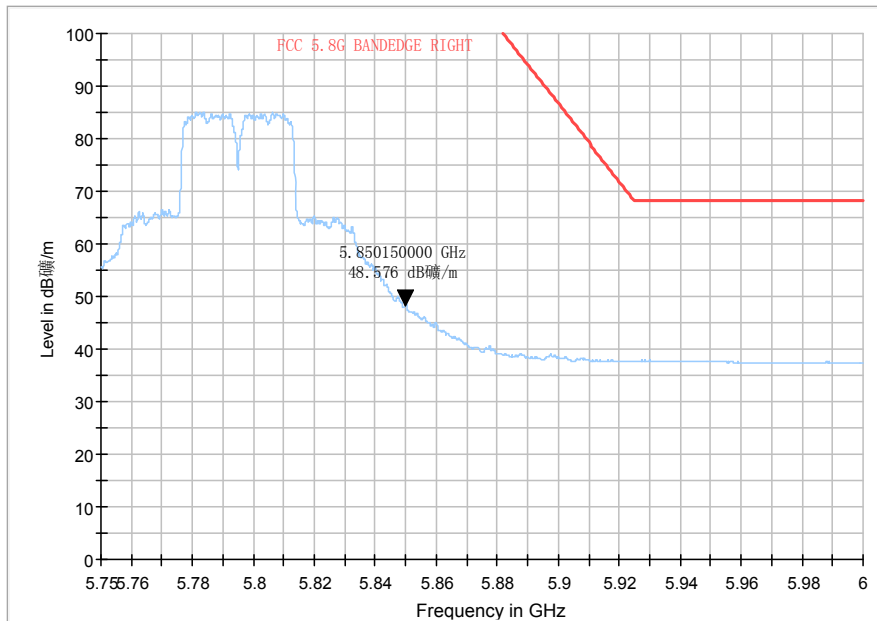


Average

Fig. 46 Band Edges (802.11n-HT40, 5755MHz)



Peak



Average

Fig. 47 Band Edges (802.11n-HT40, 5795MHz)

6.7. AC Powerline Conducted Emission

Test Condition:

| Voltage (V) | Frequency (Hz) |
|-------------|----------------|
| 110 | 60 |

Measurement Result and limit:

WLAN (Quasi-peak Limit)

| Frequency range (MHz) | Quasi-peak Limit (dB μ V) | Result (dB μ V) | | Conclusion |
|-----------------------|-------------------------------|---------------------|------|------------|
| | | With charger | | |
| | | 802.11a | Idle | |
| 0.15 to 0.5 | 66 to 56 | Fig.48 | | P |
| 0.5 to 5 | 56 | | | |
| 5 to 30 | 60 | | | |

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

WLAN (Average Limit)

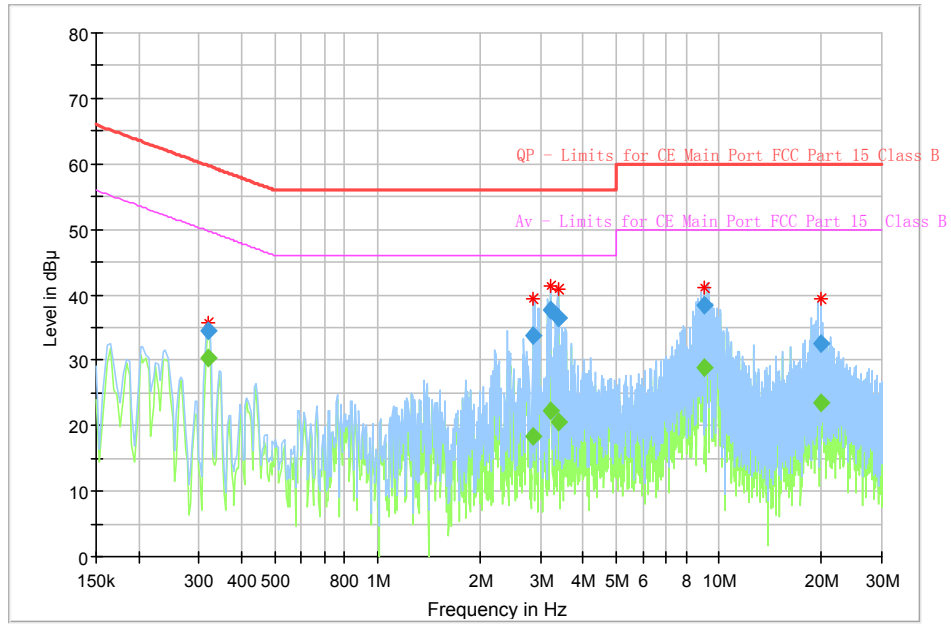
| Frequency range (MHz) | Average Limit (dB μ V) | Result (dB μ V) | | Conclusion |
|-----------------------|----------------------------|---------------------|------|------------|
| | | With charger | | |
| | | 802.11a | Idle | |
| 0.15 to 0.5 | 56 to 46 | Fig.48 | | P |
| 0.5 to 5 | 46 | | | |
| 5 to 30 | 50 | | | |

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

The measurement is made according to ANSI C63.10 .

Conclusion: PASS

Test graphs as below:


Fig. 48 AC Powerline Conducted Emission-802.11a

Measurement Result 1:

| Frequency (MHz) | QuasiPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line | Filter | Corr. (dB) |
|-----------------|------------------|----------------|--------------|-------------|-----------------|-----------------|------|--------|------------|
| 0.317906 | --- | 30.33 | 49.76 | 19.43 | 1000. | 9.000 | L1 | ON | 9.7 |
| 0.317906 | 34.59 | --- | 59.76 | 25.17 | 1000. | 9.000 | L1 | ON | 9.7 |
| 2.866350 | --- | 18.41 | 46.00 | 27.59 | 1000. | 9.000 | L1 | ON | 9.7 |
| 2.866350 | 33.75 | --- | 56.00 | 22.25 | 1000. | 9.000 | L1 | ON | 9.7 |
| 3.209625 | 37.68 | --- | 56.00 | 18.32 | 1000. | 9.000 | N | ON | 9.7 |
| 3.209625 | --- | 22.15 | 46.00 | 23.85 | 1000. | 9.000 | N | ON | 9.7 |
| 3.377531 | 36.36 | --- | 56.00 | 19.64 | 1000. | 9.000 | L1 | ON | 9.7 |
| 3.377531 | --- | 20.53 | 46.00 | 25.47 | 1000. | 9.000 | L1 | ON | 9.7 |
| 9.067688 | --- | 28.99 | 50.00 | 21.01 | 1000. | 9.000 | N | ON | 9.8 |
| 9.067688 | 38.52 | --- | 60.00 | 21.48 | 1000. | 9.000 | N | ON | 9.8 |
| 19.992788 | --- | 23.61 | 50.00 | 26.39 | 1000. | 9.000 | N | ON | 9.9 |
| 19.992788 | 32.53 | --- | 60.00 | 27.47 | 1000. | 9.000 | N | ON | 9.9 |

7. Test Equipment and Ancillaries Used For Tests

The test equipment and ancillaries used are as follows.

Conducted test system

| No. | Equipment | Model | Serial Number | Manufacturer | Calibration date | Cal.interval |
|-----|------------------------|----------|------------------|---------------|------------------|--------------|
| 1 | Vector Signal Analyzer | FSQ40 | 200063 | Rohde&Schwarz | 2018-12-17 | 1 Year |
| 2 | DC Power Supply | ZUP60-14 | LOC-220Z006-0007 | TDL-Lambda | 2018-05-11 | 1 Year |

Radiated emission test system

| No. | Equipment | Model | Serial Number | Manufacturer | Calibration date | Cal.interval |
|-----|--------------------------------------|----------|---------------|--------------|------------------|--------------|
| 1 | Universal Radio Communication Tester | CMU200 | 123123 | R&S | 2018-05-11 | 1 Year |
| 2 | EMI Test Receiver | ESU40 | 100307 | R&S | 2018-05-11 | 1 Year |
| 3 | TRILOG Broadband Antenna | VULB9163 | VULB9163-515 | Schwarzbeck | 2017-02-25 | 3 Years |
| 4 | Double-ridged Waveguide Antenna | ETS-3117 | 00135890 | ETS | 2017-01-11 | 3 Years |
| 5 | 2-Line V-Network | ENV216 | 101380 | R&S | 2018-05-11 | 1 Year |
| 6 | Loop Antenna | AL-130R | 121083 | COM-POWER | 2016-11-21 | 3 Years |

Anechoic chamber

Fully anechoic chamber by Frankonia German.

8. Test Environment

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

| | |
|--------------------------|----------------------------|
| Temperature | Min. = 15 °C, Max. = 35 °C |
| Relative humidity | Min. = 20 %, Max. = 75 % |
| Shielding effectiveness | > 100 dB |
| Ground system resistance | < 0.5 Ω |

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

| | |
|--------------------------|----------------------------|
| Temperature | Min. = 15 °C, Max. = 35 °C |
| Relative humidity | Min. =25 %, Max. = 75 % |
| Shielding effectiveness | > 100 dB |
| Electrical insulation | > 10 kΩ |
| Ground system resistance | < 0.5 Ω |

Fully-anechoic chamber1 (6.9 meters×10.9 meters×5.4 meters) did not exceed following limits along the EMC testing:

| | |
|------------------------------|--|
| Temperature | Min. = 15 °C, Max. = 35 °C |
| Relative humidity | Min. = 25 %, Max. = 75 % |
| Shielding effectiveness | > 100 dB |
| Electrical insulation | > 10 kΩ |
| Ground system resistance | < 0.5 Ω |
| VSWR | Between 0 and 6 dB, from 1GHz to 18GHz |
| Site Attenuation Deviation | Between -4 and 4 dB,30MHz to 1GHz |
| Uniformity of field strength | Between 0 and 6 dB, from 80MHz to 3000 MHz |

9. Measurement Uncertainty

Measurement uncertainty for all the testing in this report are within the limit specified in ECIT documents. The detailed measurement uncertainty to see the column, k=2

| Measurement Items | Range | Confidence Level | Calculated Uncertainty |
|--|--------------------|------------------|------------------------|
| Peak Output Power-Conducted | 2412MHz-2462MHz | 95% | ±0.544dB |
| Peak Power Spectral Density | 2412MHz-2462MHz | 95% | ±0.544dB |
| Occupied 6dB Bandwidth | 2412MHz-2462MHz | 95% | ±62.04Hz |
| Frequency Band Edges-Conducted | 2412MHz-2462MHz | 95% | ±0.544dB |
| Conducted Emission | 30MHz-2GHz | 95% | ±0.90dB |
| Conducted Emission | 2GHz-3.6GHz | 95% | ±0.88dB |
| Conducted Emission | 3.6GHz-8GHz | 95% | ±0.96dB |
| Conducted Emission | 8GHz-20GHz | 95% | ±0.94dB |
| Conducted Emission | 20GHz-22GHz | 95% | ±0.88dB |
| Conducted Emission | 22GHz-40GHz | 95% | ±0.86dB |
| Transmitter Spurious Emission-Radiated | 9KHz-30MHz | 95% | ±5.66dB |
| Transmitter Spurious Emission-Radiated | 30MHz-1000MHz | 95% | ±4.98dB |
| Transmitter Spurious Emission-Radiated | 1000MHz -18000MHz | 95% | ±5.06dB |
| Transmitter Spurious Emission-Radiated | 18000MHz -40000MHz | 95% | ±5.20dB |
| AC Power line Conducted Emission | 0.15MHz-30MHz | 95% | ±3.66 dB |

ANNEX A. Detailed Test Results

Annex A.1. Main Terms

| | |
|------------|--|
| Verdict | Verdict of each test cases. |
| Test cases | Test cases identification number and description in ETSI EN 300 328 test specification and ETSI specification. |

Annex A.2. Terms used in Condition column

| | |
|------|--------------------|
| Tnom | Normal temperature |
| Tmin | Low Temperature |
| Tmax | High Temperature |
| Vnom | Normal Voltage |
| Vmin | Low Voltage |
| Vmax | High Voltage |
| Hnom | Norm Humidity |
| Anom | Norm Air Pressure |

Annex A.3. Terms used in Verdict column

| | |
|----|--|
| P | Pass, the EUT complies with the essential requirements in the standard. |
| NM | Not measure, the test was not measured by ECIT. |
| NA | Not applicable, the test was not applicable. |
| F | Fail, the EUT does not comply with the essential requirements in the standard. |

Annex A.4. Terms used in Note column

| | |
|----------|---|
| EUT ID | EUT ID (e.g N01, N02.....) is used to identify the EUT tested used for each test cases as specified in section 3 of this test report. |
| Lab Code | Lab code is used to identify the subcontracted lab if this test cases is performed in the subcontracted lab. |

Subcontracted test lab code: N/A

ANNEX B. Accreditation Certificate



Accredited Laboratory

A2LA has accredited

EAST CHINA INSTITUTE OF TELECOMMUNICATIONS
Shanghai, People's Republic of China

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).



Presented this 15th day of March 2017.



President and CEO
For the Accreditation Council
Certificate Number 3682.01
Valid to February 28, 2019

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.

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