

FCC TEST REPORT

For

UMTS Mobile Phone

Model Number: HUAWEI Y560-U03, Y560-U03

FCC ID: QISY560-U03

Report Number : WT158002039

Test Laboratory : Shenzhen Academy of Metrology and Quality
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TEST REPORT DECLARATION

Applicant : Huawei Technologies Co.,Ltd
Address : Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen,518129, P.R.C
Manufacturer : Huawei Technologies Co.,Ltd
Address : Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C
EUT Description : UMTS Mobile Phone
Model No : HUAWEI Y560-U03, Y560-U03
Trade mark : HUAWEI
Serial Number : /
FCC ID : QISY560-U03

Test Standards:

FCC Part 15.207, 15.209, 15.247(2014)

The EUT described above is tested by Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory to determine the maximum emissions from the EUT. Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory is assumed full responsibility for the accuracy of the test results. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with FCC Rules Part 15.207, 15.209 and 15.247.

The test report is valid for above tested sample only and shall not be reproduced in part without written approval of the laboratory.

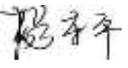
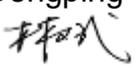
| | | | |
|-------------------|---|-------|--------------------|
| Project Engineer: |  _____ (Chen Silin 陈司林) | Date: | <u>Jun.11.2015</u> |
| Checked by: |  _____ (Yang Dongping 杨东平) | Date: | <u>Jun.11.2015</u> |
| Approved by: |  _____ (Lin Bin 林斌) | Date: | <u>Jun.11.2015</u> |

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1. TEST RESULTS SUMMARY

Table 1 Test Results Summary

| Test Items | FCC Rules | Test Results |
|---|--------------------------------|--------------|
| 6dB DTS bandwidth measurement | 15.247 (a) (2) | Pass |
| Maximum Peak Conducted Power | 15.247 (b) (3) | Pass |
| Maximum Power Spectral Density Level | 15.247 (3) | Pass |
| Conducted Bandedge and Spurious | 15.247 (d) | Pass |
| Radiated Bandedge and Spurious | 15.247 (d) 15.209 15.205 | Pass |
| Conducted emission test for AC power port | 15.207 | Pass |
| Antenna Requirment | 15.203 | Pass |

Remark: "N/A" means "Not applicable."

2. GENERAL INFORMATION

2.1. Report information

- 2.1.1. This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that SMQ approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that SMQ in any way guarantees the later performance of the product/equipment.
- 2.1.2. The sample/s mentioned in this report is/are supplied by Applicant, SMQ therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.
- 2.1.3. Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through SMQ, unless the applicant has authorized SMQ in writing to do so.

2.2. Laboratory Accreditation and Relationship to Customer

The testing report were performed by the Shenzhen Academy of Metrology and quality Inspection EMC Laboratory (Guangdong EMC compliance testing center), in their facilities located at Bldg. of Metrology & Quality Inspection, Longzhu Road, Nanshan District, Shenzhen, Guangdong, China. At the time of testing, Laboratory is accredited by the following organizations:

China National Accreditation Service for Conformity Assessment (CNAS) accredits the Laboratory for conformance to FCC standards, EMC international standards and EN standards. The Registration Number is CNAS L0579. The Laboratory is listed in the United States of American Federal Communications Commission (FCC), and the registration number are 446246 806614 994606(semi anechoic chamber).

The Laboratory is listed in Voluntary Control Council for Interference by Information Technology Equipment (VCCI), and the registration number are R-1974(open area test site) , R-1966(semi anechoic chamber),C-2117(mains ports conducted interference measurement) and T-180(telecommunication ports conducted interference measurement).

The Laboratory is registered to perform emission tests with Industry Canada (IC), and the registration number is 11177A-1 11177A-2.

TUV Rhineland accredits the Laboratory for conformance to IEC and EN standards, the registration number is E2024086Z02.

2.3.Measurement Uncertainty

Conducted Emission

9kHz~30MHz 3.5dB

Radiated Emission

30MHz~1000MHz 4.5dB

1GHz~26.5GHz 4.6dB

3. PRODUCT DESCRIPTION

3.1.EUT Description

Description : UMTS Mobile Phone

Manufacturer : HUAWEI

Model Number : HUAWEI Y560-U03, Y560-U03

Operate Frequency : 2.412GHz~2.462GHz

Antenna Designation : GSM/WCDMA: LOOP Antenna -4dBi
Wi-Fi/BT: IFA Antenna -1.5dBi

Remark 1:HUAWEI Y560-U03 compared with Y560-U03, only have different model number. All of the models' circuit theory, electrical design and the key pieces are the same. The differences do not affect the EMC and safety performance. Unless otherwise specified, the model HUAWEI Y560-U03 was chosen as representative model to perform all the tests.

Remark 2:This is a derivative report based on original report WT158002029(FCC ID: QISY560-U23). HUAWEI Y560-U03 , Y560-U03 and HUAWEI Y560-U23,Y560-U23 are identical in frequency, PCB, Antenna, Dimensions and the others. The differences between two products are software version and number of SIM slot. All the test data of HUAWEI Y560-U03 , Y560-U03 comes from the original test data of HUAWEI Y560-U23,Y560-U23.

WLAN :

Table 2 Working Frequency List

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 1 | 2412MHz | 8 | 2447MHz |
| 2 | 2417MHz | 9 | 2452MHz |
| 3 | 2422MHz | 10 | 2457MHz |
| 4 | 2427MHz | 11 | 2462MHz |
| 5 | 2432MHz | | |
| 6 | 2437MHz | | |
| 7 | 2442MHz | | |

Table 3 The working Frequency List(802.11n HT40)

| channel | Frequency | channel | Frequency |
|---------|-----------|---------|-----------|
| 3 | 2422MHz | 8 | 2447MHz |
| 4 | 2427MHz | 9 | 2452MHz |
| 5 | 2432MHz | | |
| 6 | 2437MHz | | |
| 7 | 2442MHz | | |

3.2.Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **QISY560-U03**, filing to comply with Section 15.207, 15.209, 15.247 of the FCC Part 15, Subpart C Rules.

3.3.Block Diagram of EUT Configuration



Figure 1 EUT setup

3.4.Operating Condition of EUT

The Radiated spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission (X plane).

Worst-case mode and channel used for 30-1000 MHz radiated and power line conducted emissions was the mode and channel with the highest output power.

Worst-case data rates as provided by the client were:

802.11b mode: 1 Mbps

802.11g mode: 6 Mbps

Test mode is configured to be with duty cycle >98%

802.11b and 802.11g operate in SISO mode. For SISO conducted measurements, the modes tested in this report will be considered as a worst case mode.

3.5.Directionality Antenna Gain

The EUT does NOT support a WIFI MIMO function.
Directionality gain need NOT to be considered.

3.6.Support Equipment List

Table 4 Support Equipment List

| Name | Model No | S/N | Manufacturer |
|-----------------------------|--------------------------|--------------------|---|
| Adaptor for EUT | HW-050100U01 | H666LGF4G0626 2 | Shen Zhen Huntkey Electronic Co., Ltd. (HK for short) |
| | | Y66601F3L00042 | Dongguan City Yingju Electronics Co.,Ltd. (YJ for short) |
| | | P66606F4905716 | Dongguan Phitek Electronics Co., Ltd. (Phitek for short) |
| | | B66660F3G00256 | Huizhou BYD Electronic Co., Ltd. (BYD for short) |
| Adaptor for EUT | HW-050100E01 | H667LGF4723178 | Shen Zhen Huntkey Electronic Co., Ltd. |
| | | Y66801F3J00049 | Dongguan City Yingju Electronics Co.,Ltd. |
| | | P66707F3200350 | Dongguan Phitek Electronics Co., Ltd. |
| | | B66799F4200069 | Huizhou BYD Electronic Co., Ltd. |
| Adaptor for EUT | HW-050100B01 | -- | Shen Zhen Huntkey Electronic Co., Ltd. |
| | | -- | Dongguan City Yingju Electronics Co.,Ltd. |
| | | -- | Dongguan Phitek Electronics Co., Ltd. |
| | | -- | Huizhou BYD Electronic Co., Ltd. |
| Adaptor for EUT | HW-050100A01 | -- | Shen Zhen Huntkey Electronic Co., Ltd. |
| | | -- | Dongguan City Yingju Electronics Co.,Ltd. |
| | | -- | Dongguan Phitek Electronics Co., Ltd. |
| | | -- | Huizhou BYD Electronic Co., Ltd. |
| Rechargeable Li-ion for EUT | HB494590EBC | -- | BYD Lithium Battery Company Limited |
| Rechargeable Li-ion for EUT | HB494590EBC | -- | SCUD (FUJIAN) Electronics Co., Ltd. |
| Data cable | 130-41040 | -- | CHANGSHU HONGLIN TECHNOLOGY CO.,LTD. |
| Data cable | H09-000473 | -- | SHEN ZHEN PANG NGAI INDUSTRIAL CO., LTD. |
| Earphone | HA1-3 | -- | GoerTek Inc. |
| | HG-04A | -- | |
| Earphone | 1293#+3283# 3.5MM-150 | -- | BOLUO COUNTY QUANCHENG ELECTRONIC CO., LTD. |
| Earphone | MEMD1532B52800 0 | -- | Jiangxi Lianchuang Hongsheng Electronic Co., LTD. |

| | | | |
|----------|---------------|----|-----------------------------|
| Earphone | EMC323-011-01 | -- | MERRY ELECTRONICS CO., LTD. |
|----------|---------------|----|-----------------------------|

3.7. Test Conditions

Date of test: May 15,2015-May 28, 2015

Date of EUT Receive: May 15,2015

Temperature: 21-24 °C

Relative Humidity: 48-54%

3.8. Special Accessories

Not available for this EUT intended for grant.

3.9. Equipment Modifications

Not available for this EUT intended for grant.

4. TEST EQUIPMENT USED

Table 5 Test Equipment

| No. | Equipment | Manufacturer | Model No. | Last Cal. | Cal. Interval |
|-----------|------------------------------|--------------------|-----------|--------------|---------------|
| SB2603 | EMI Test Receiver | Rohde & Schwarz | ESCS30 | Dec.19, 2014 | 1 Year |
| SB3321 | AMN | Rohde & Schwarz | ESH2-Z5 | Jan.18, 2015 | 1 Year |
| SB2604 | AMN | Rohde & Schwarz | ESH3-Z5 | Nov.18, 2015 | 1 Year |
| ---- | Radiated Emissions Cable set | HUBER+SUHNER | --- | Jan.19, 2015 | 1 Year |
| SB8501/09 | EMI Test Receiver | Rohde & Schwarz | ESU40 | Mar.19, 2015 | 1 Year |
| SB8501/04 | Bilog Antenna | Schwarzbeck | VULB9163 | Mar.19, 2015 | 1 Year |
| SB3435 | Horn Antenna | Rohde & Schwarz | HF906 | Jan.19, 2015 | 1 Year |
| SB5392/02 | Horn Antenna | Amplifier Research | AT4560 | May.16, 2014 | 1 Year |
| SB3450/01 | 3m Semi-anechoic chamber | Albatross Projects | 9X6X6 | Oct.09, 2014 | 2 Years |
| SB3345 | Loop Antenna | Schwarzbeck | FMZB1516 | Jan.20, 2015 | 2 Years |
| SB3437 | Power meter | Rohde & Schwarz | NRVD | Jul.03,2015 | 1 Year |
| SB3437/01 | Power sensor | Rohde & Schwarz | URV5-Z2 | Jul.03,2015 | 1 Year |
| SB9721/02 | Signal Analyzer | Agilent | N9020A | Jan.05, 2015 | 1 Year |
| ---- | Radiated Emissions Cable set | HUBER+SUHNER | --- | Jan.19, 2015 | 1 Year |
| --- | Radiated Emissions Cable set | HUBER+SUHNER | --- | Jan.19, 2015 | 1 Year |
| SB8501/17 | Preamplifier | Rohde & Schwarz | SCU-18 | Mar.27, 2015 | 1 Year |
| SB8501/16 | Preamplifier | Rohde & Schwarz | SCU-26 | Mar.27, 2015 | 1 Year |
| SB9059 | Preamplifier | Rohde & Schwarz | SCU-40 | May.12, 2015 | 1 Yea |

5. 6DB BANDWIDTH MEASUREMENT

5.1.LIMITS OF 6dB BANDWIDTH MEASUREMENT

CFR 47 (FCC) part 15.247 (a) (2) and 558074 D01 DTS Meas Guidance vv03r02

5.2.TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer.

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.

5.3.TEST SETUP



5.4. Test Data

Table 6 6dB Bandwidth Test Data 802.11b

| CHANNEL FREQUENCY (MHz) | 6dB BANDWIDTH (MHz) | results |
|-------------------------|---------------------|---------|
| 2412 | 8.106 | Pass |
| 2437 | 8.568 | Pass |
| 2462 | 8.562 | Pass |



Table 7 6dB Bandwidth Test Data 802.11g

| CHANNEL FREQUENCY (MHz) | 6dB BANDWIDTH (MHz) | results |
|-------------------------|---------------------|---------|
| 2412 | 16.40 | Pass |
| 2437 | 16.39 | Pass |
| 2462 | 16.39 | Pass |

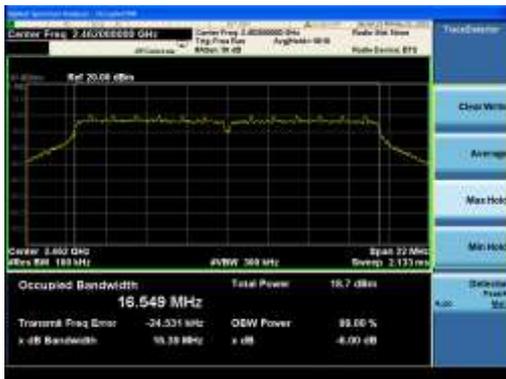
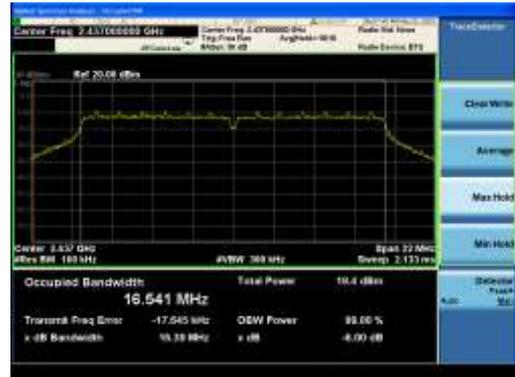


Table 8 6dB Bandwidth Test Data 802.11n HT20

| CHANNEL FREQUENCY (MHz) | 6dB BANDWIDTH (MHz) | results |
|-------------------------|---------------------|---------|
| 2412 | 17.62 | Pass |
| 2437 | 17.61 | Pass |
| 2462 | 17.61 | Pass |

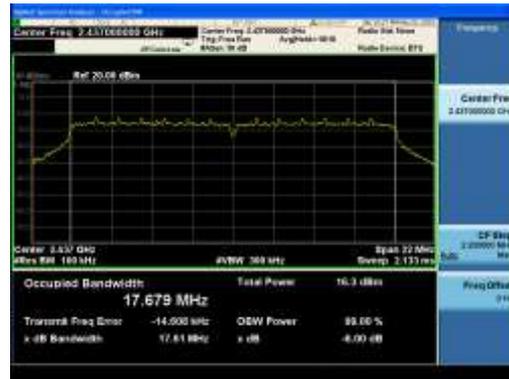
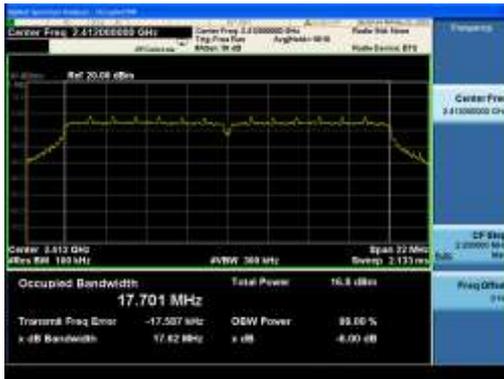
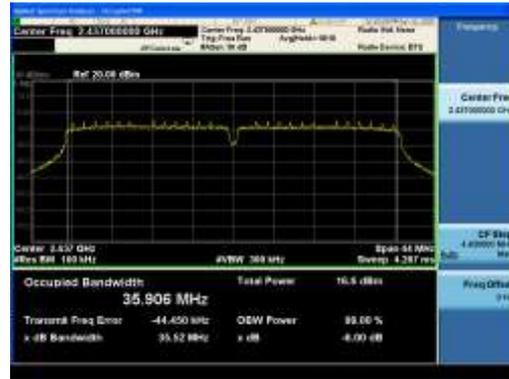
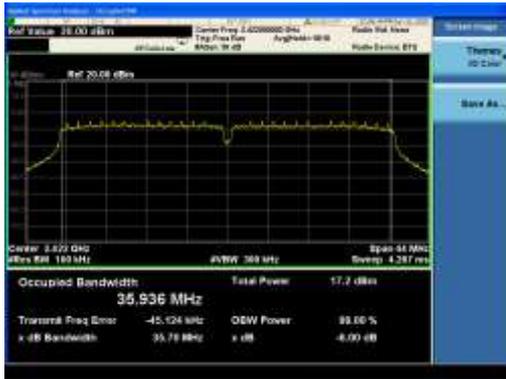


Table 9 6dB Bandwidth Test Data 802.11n HT40

| CHANNEL FREQUENCY (MHz) | 6dB BANDWIDTH (MHz) | results |
|-------------------------|---------------------|---------|
| 2422 | 35.70 | Pass |
| 2437 | 35.52 | Pass |
| 2452 | 35.19 | Pass |



6. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

6.1.LIMITS OF Maximum Conducted Output Power Measurement

CFR 47 (FCC) part 15.247 (b) (3) and 558074 D01 DTS Meas Guidance vv03r02

6.2.TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer.

a)Set the RBW = 1 MHz.

b)Set the VBW ≥ 3 RBW

c)Set the span ≥ 1.5 x DTS bandwidth.

d)Detector = peak.

e)Sweep time = auto couple.

f)Trace mode = max hold.

g)Allow trace to fully stabilize.

h)Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges

6.3.TEST DATA

Table 10 Maximum Conducted Output Power Test Data 802.11b

| Center Freq.[MHz] | Meas. Level (Cond.) [dBm] | Limit [dBm] | Result |
|-------------------|---------------------------|-------------|--------|
| 2412 | 15.89 | < 30 | Pass |
| 2437 | 15.35 | < 30 | Pass |
| 2462 | 14.47 | < 30 | Pass |



Table 11 Maximum Conducted Output Power Test Data 802.11g

| Center Freq.[MHz] | Meas. Level (Cond.) [dBm] | Limit [dBm] | Result |
|-------------------|---------------------------|-------------|--------|
| 2412 | 20.91 | < 30 | Pass |
| 2437 | 20.37 | < 30 | Pass |
| 2462 | 19.44 | < 30 | Pass |



Table 12 Maximum Conducted Output Power Test Data 802.11n HT20

| Center Freq.[MHz] | Meas. Level (Cond.) [dBm] | Limit [dBm] | Result |
|-------------------|---------------------------|-------------|--------|
| 2412 | 17.55 | < 30 | Pass |
| 2437 | 17.06 | < 30 | Pass |
| 2462 | 16.36 | < 30 | Pass |



Table 13 Maximum Conducted Output Power Test Data 802.11n HT40

| Center Freq.[MHz] | Meas. Level (Cond.) [dBm] | Limit [dBm] | Result |
|-------------------|---------------------------|-------------|--------|
| 2422 | 25.01 | < 30 | Pass |
| 2437 | 24.61 | < 30 | Pass |
| 2452 | 24.23 | < 30 | Pass |



7. MAXIMUM POWER SPECTRAL DENSITY LEVEL MEASUREMENT

7.1.LIMITS OF Maximum Power Spectral Density Level Measurement

CFR 47 (FCC) part 15.247 (e) and 558074 D01 DTS Meas Guidance vv03r02

7.2.TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer.

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

7.3.TEST DATA

Table 14 Maximum Power Spectral Density Level Test Data 802.11b

| Center Freq.[MHz] | PSD [dBm] | Limit [dBm] | Result |
|-------------------|-----------|-------------|--------|
| 2412 | 5.296 | 8 | Pass |
| 2437 | 4.656 | 8 | Pass |
| 2462 | 3.759 | 8 | Pass |



Table 15 Maximum Power Spectral Density Level Test Data 802.11g

| Center Freq.[MHz] | PSD [dBm] | Limit [dBm] | Result |
|-------------------|-----------|-------------|--------|
| 2412 | 1.741 | 8 | Pass |
| 2437 | 1.153 | 8 | Pass |
| 2462 | 0.389 | 8 | Pass |



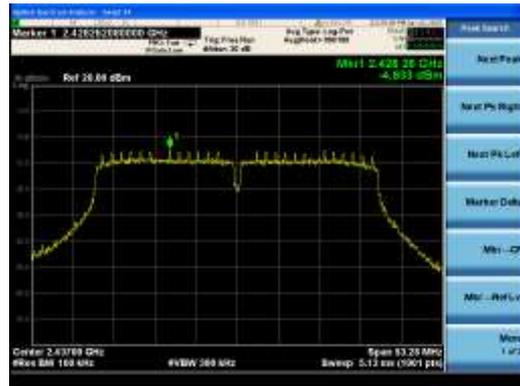
Table 16 Maximum Power Spectral Density Level Test Data 802.11n HT20

| Center Freq.[MHz] | PSD [dBm] | Limit [dBm] | Result |
|-------------------|-----------|-------------|--------|
| 2412 | -1.306 | 8 | Pass |
| 2437 | -2.233 | 8 | Pass |
| 2462 | -2.989 | 8 | Pass |



Table 17 Maximum Power Spectral Density Level Test Data 802.11n HT40

| Center Freq.[MHz] | PSD [dBm] | Limit [dBm] | Result |
|-------------------|-----------|-------------|--------|
| 2422 | -4.681 | 8 | Pass |
| 2437 | -4.833 | 8 | Pass |
| 2452 | -5.076 | 8 | Pass |



8. CONDUCTED BANDEGE AND SPURIOUS MEASUREMENT

8.1.LIMITS OF Conducted Bandedge and Spurious Measurement

CFR 47 (FCC) part 15.247 (d) and 558074 D01 DTS Meas Guidance vv03r02

8.2.TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer.

Establish a reference level by using the following procedure:

- a)Set instrument center frequency to DTS channel center frequency.
- b)Set the span to ≥ 1.5 times the DTS bandwidth.
- c)Set the RBW = 100 kHz.
- d)Set the VBW $\geq 3 \times$ RBW.
- e)Detector = peak.
- f)Sweep time = auto couple.
- g)Trace mode = max hold.
- h)Allow trace to fully stabilize.
- i)Use the peak marker function to determine the maximum PSD level.

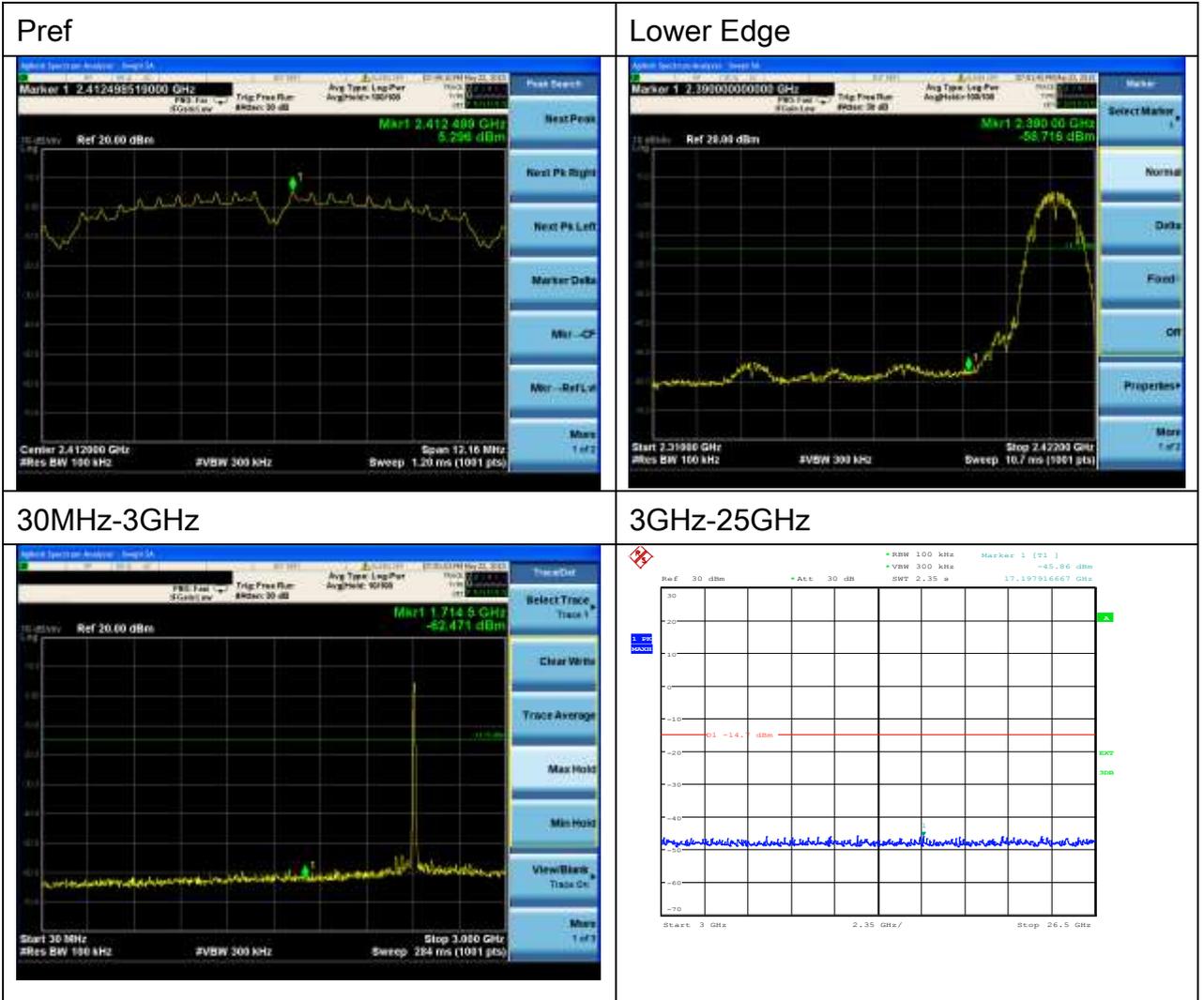
Emission level measurement

- a)Set the center frequency and span to encompass frequency range to be measured.
- b)Set the RBW = 100 kHz.
- c)Set the VBW $\geq 3 \times$ RBW.
- d)Detector = peak.
- e)Ensure that the number of measurement points \geq span/RBW
- f)Sweep time = auto couple.
- g)Trace mode = max hold.
- h)Allow trace to fully stabilize.
- i)Use the peak marker function to determine the maximum amplitude level.

Test Result : ALL emission outside of 2400-2483.5 are lower at least 30dB than fundamental frequency.

8.3. TEST DATA

802.11b CH1



802.11b CH6

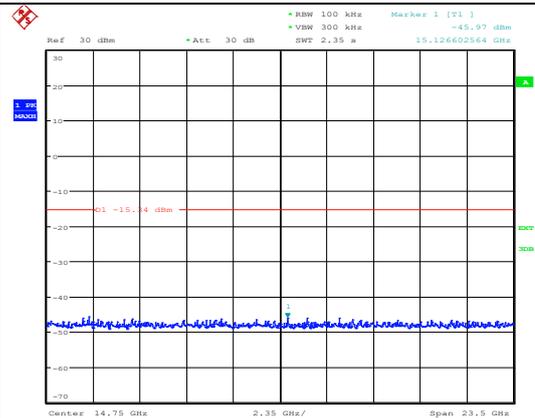
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30MHz-3GHz



3GHz-25GHz



802.11b CH11

Pref



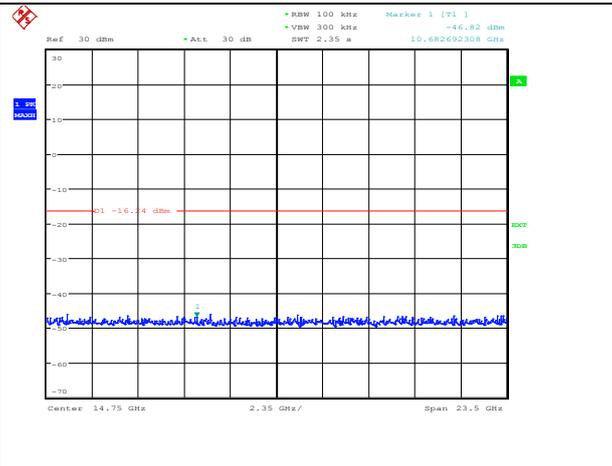
Upper Edge



30MHz-3GHz



3GHz-25GHz



802.11g CH1

Pref



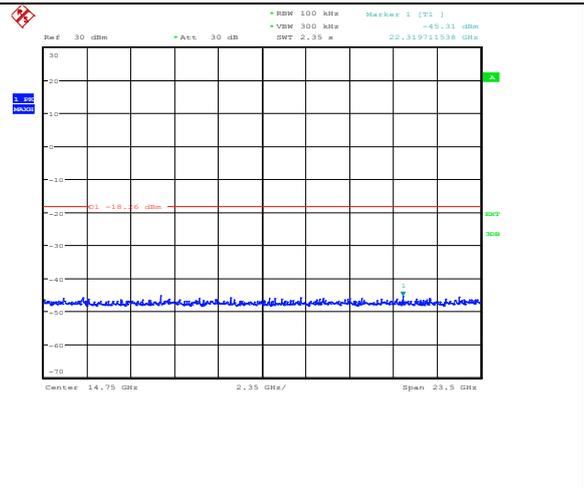
Lower Edge



30MHz-3GHz



3GHz-25GHz



802.11g CH6

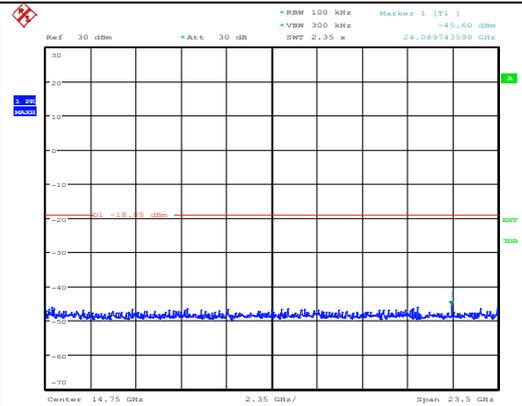
Pref



30MHz-3GHz



3GHz-25GHz



802.11g CH11

Pref



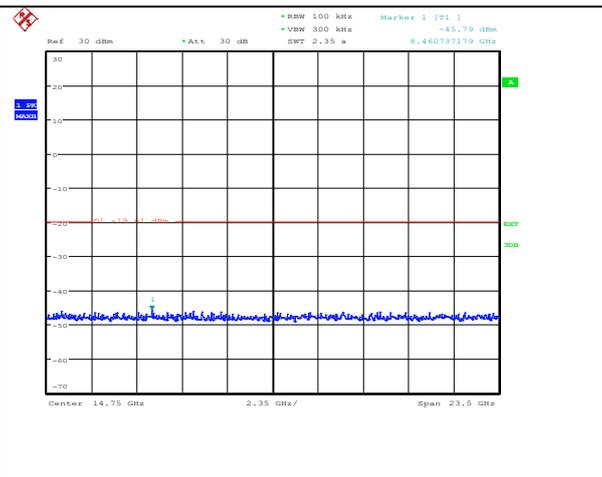
Upper Edge



30MHz-3GHz



3GHz-25GHz



802.11n HT20 CH1

Pref



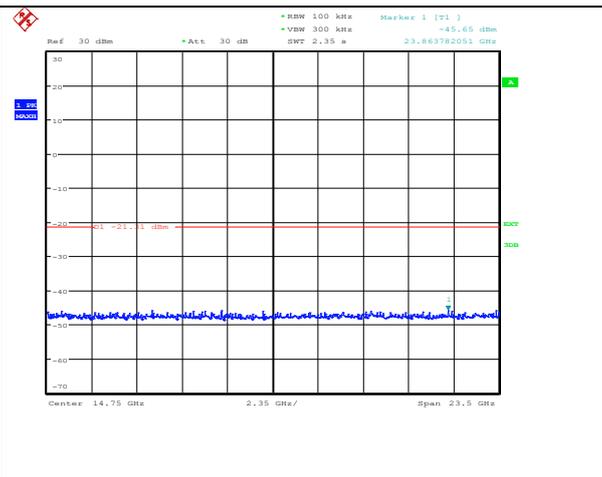
Lower Edge



30MHz-3GHz



3GHz-25GHz



802.11n HT20 CH6

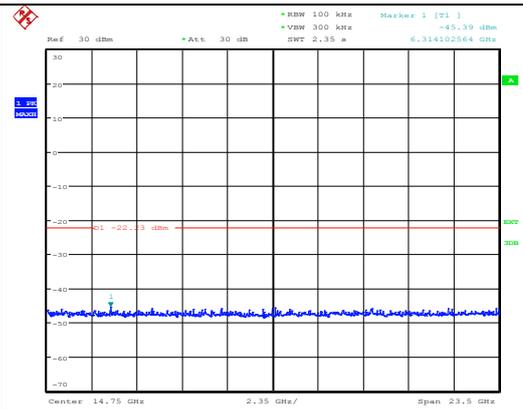
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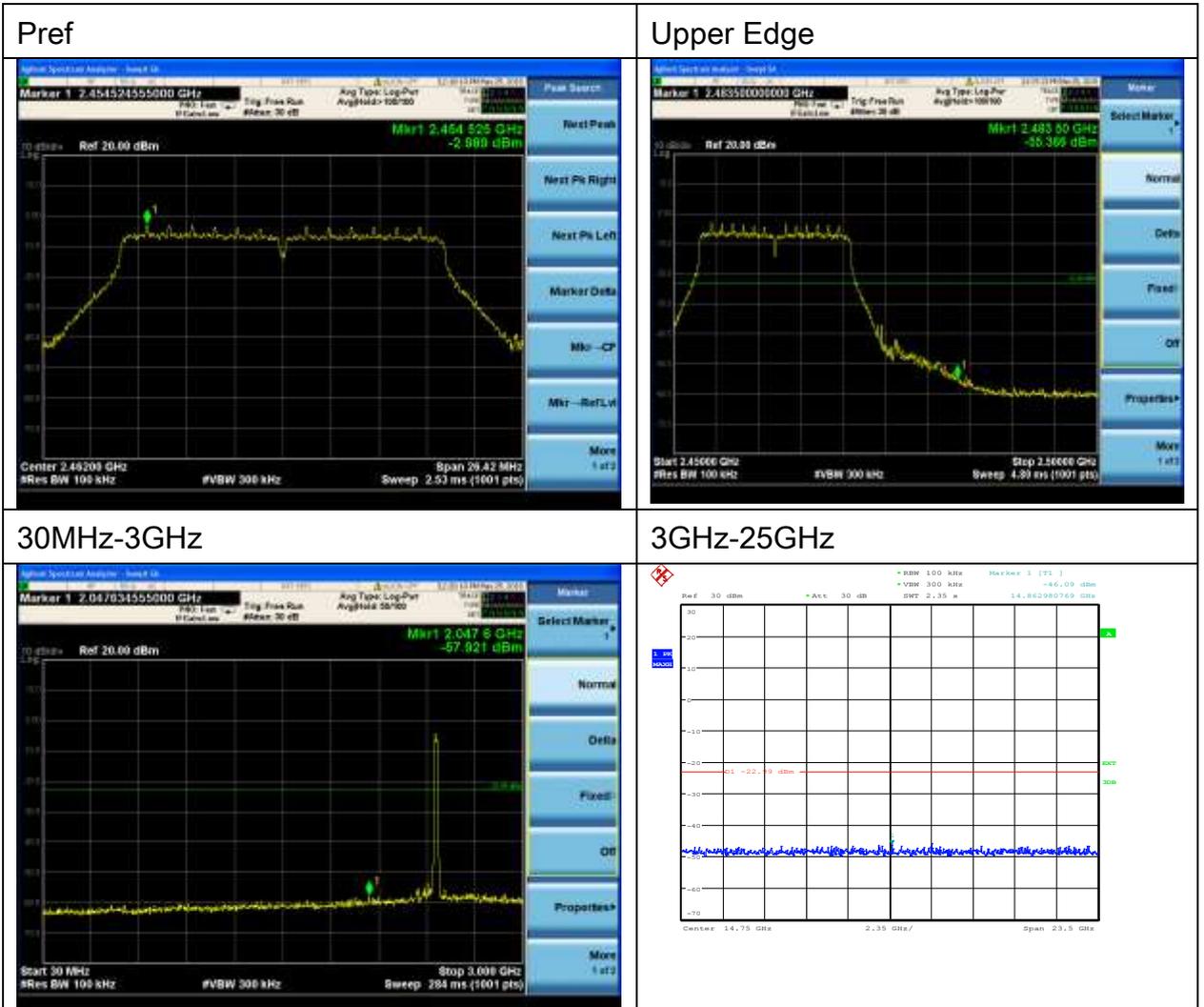
30MHz-3GHz



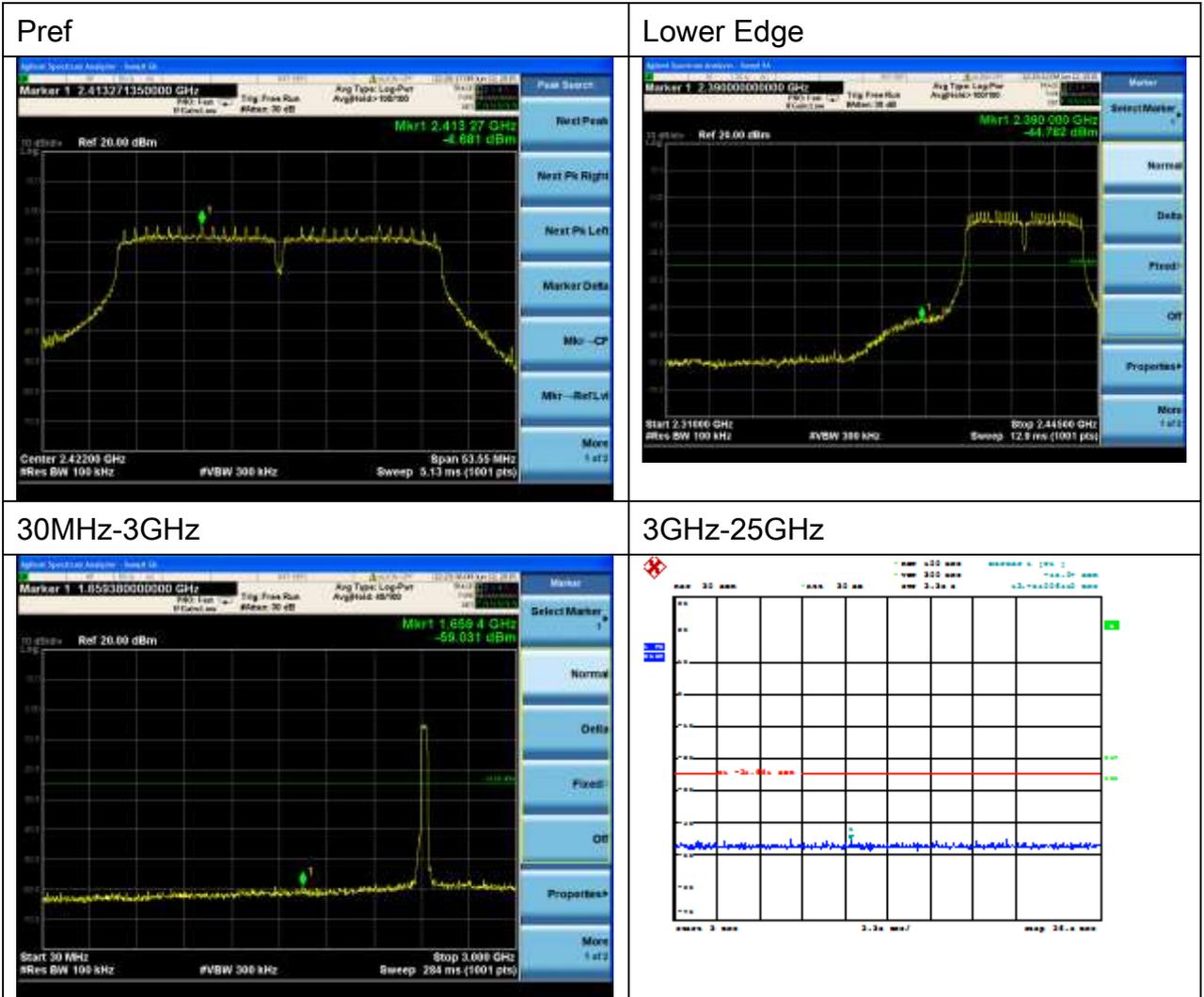
3GHz-25GHz



802.11n HT20 CH11



802.11n HT40 CH3



802.11n HT40 CH6

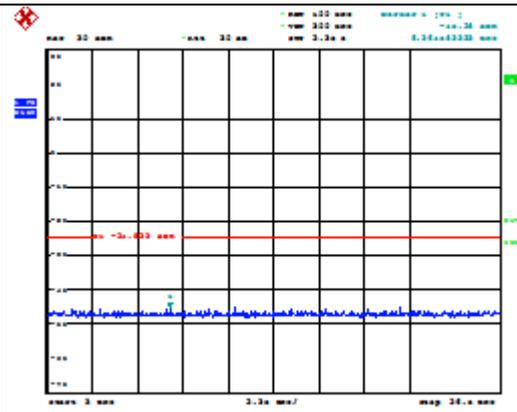
Pref



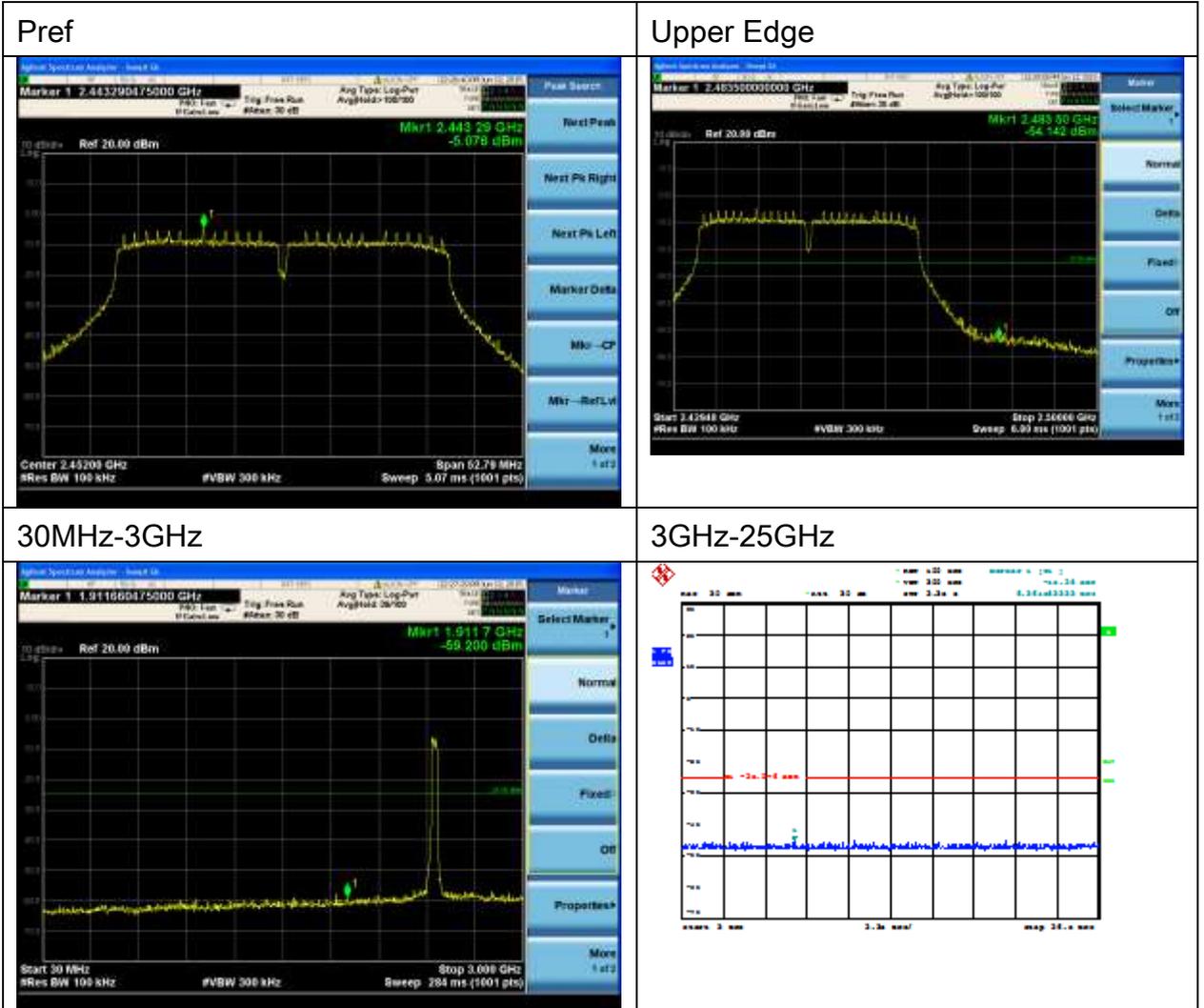
30MHz-3GHz



3GHz-25GHz



802.11n HT40 CH9



9. RADIATED BANDEGE AND SPURIOUS MEASUREMENT

9.1.LIMITS OF Radiated Bandedge and Spurious Measurement

CFR 47 (FCC) part 15.247 (d) and 558074 D01 DTS Meas Guidance vv03r02

9.2.TEST PROCEDURE

1. The testing follows the guidelines in ANSI C63.10-2009.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: $\text{Antenna Factor} + \text{Cable Loss} + \text{Read Level} - \text{Preamp Factor} = \text{Level}$
6. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
7. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1 \text{ GHz}$; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz Detector function = peak for $f > 1 \text{ GHz}$ for peak measurement.
Set RBW = 1 MHz, VBW= 10Hz Detector function = peak for $f > 1 \text{ GHz}$ for AV measurement.

TEST DATA

9KHz-30MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

Radiated Emission Test Data 9k Hz-30MHz

| Frequency MHz | Cable Loss(dB) | Antenna Factor(dB) | Readings(dBμV/m) | Level(dBμV/m) | Polarity(H/V) | Turntable Angle(deg) | Antenna Height(m) | Limits(dBμV/m) | Margin(dB) |
|---------------|----------------|--------------------|------------------|---------------|---------------|----------------------|-------------------|----------------|------------|
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

30MHz-1GHz

Worst case is shown below for 30MHz-1GHz only.

The emissions don't show in following result tables are more than 20dB below the limits.

Radiated Emission Test Data 30MHz-1GHz

| Frequency MHz | Cable Loss(dB) | Antenna Factor(dB) | Readings(dBμV/m) | Level(dBμV/m) | Polarity(H/V) | Turntable Angle(deg) | Antenna Height(m) | Limits(dBμV/m) | Margin(dB) |
|---------------|----------------|--------------------|------------------|---------------|---------------|----------------------|-------------------|----------------|------------|
| 40.86 | 0.7 | 13.6 | 8.8 | 23.1 | V | 60.3 | 1.0 | 40.0 | 16.9 |
| 46.12 | 0.8 | 13.6 | 9.1 | 23.5 | V | 86.4 | 1.0 | 40.0 | 16.5 |
| 51.24 | 0.8 | 13.3 | 7.5 | 21.6 | V | 342.6 | 1.0 | 40.0 | 18.4 |
| 156.68 | 1.4 | 8.3 | 12.0 | 21.7 | V | 315.3 | 1.1 | 43.5 | 18.3 |
| 175.19 | 1.5 | 9.0 | 8.6 | 19.1 | V | 27.6 | 1.2 | 43.5 | 20.9 |
| 580.201 | 3.0 | 16.6 | 5.1 | 24.7 | V | 78.2 | 1.1 | 46.0 | 22.3 |
| 48.062 | 0.8 | 13.6 | 6.5 | 20.9 | H | 110.7 | 1.0 | 40.0 | 19.1 |
| 60.15 | 1.0 | 12.7 | 6.0 | 19.7 | H | 143.7 | 1.1 | 40.0 | 20.3 |
| 92.95 | 1.1 | 11.9 | 2.8 | 15.8 | H | 101.1 | 1.1 | 43.5 | 24.2 |
| 114.68 | 1.2 | 12.3 | 2.8 | 16.3 | H | 335.8 | 1.2 | 43.5 | 23.7 |
| 193.62 | 1.7 | 10.6 | 6.3 | 18.6 | H | 241.7 | 1.3 | 43.5 | 21.4 |
| 387.25 | 2.4 | 14.6 | 4.7 | 21.7 | H | 330.1 | 1.1 | 46.0 | 25.3 |

Radiated Emission

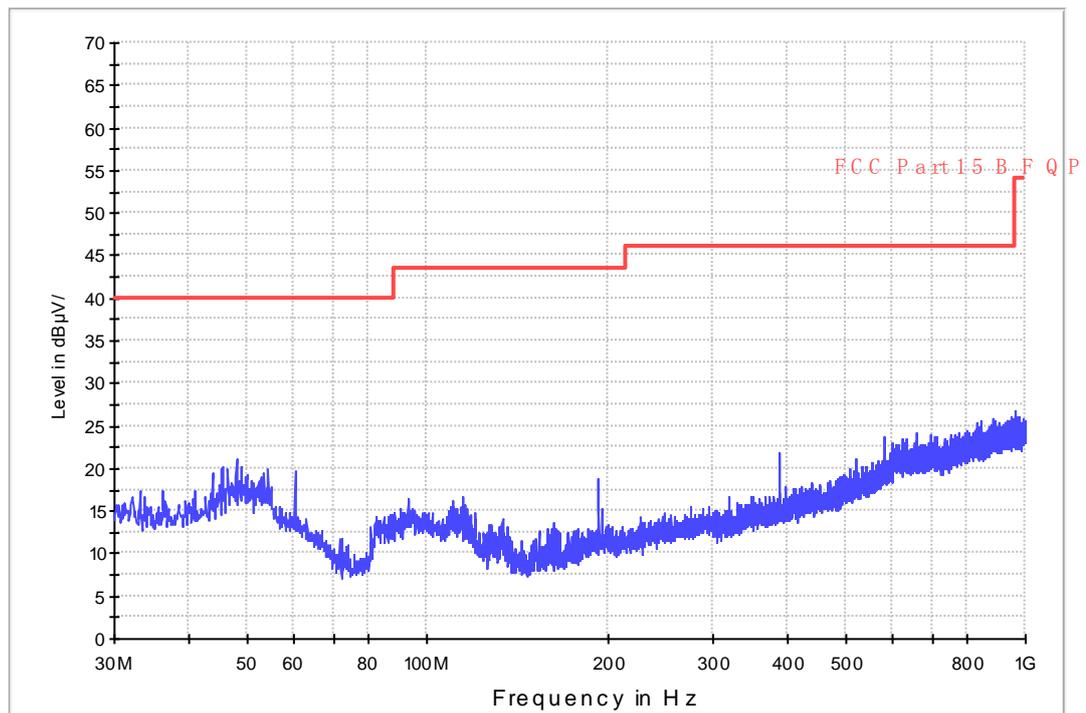
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: Changing
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

Field strength 30M-1GHz 1F 3m chamber



Radiated Emission

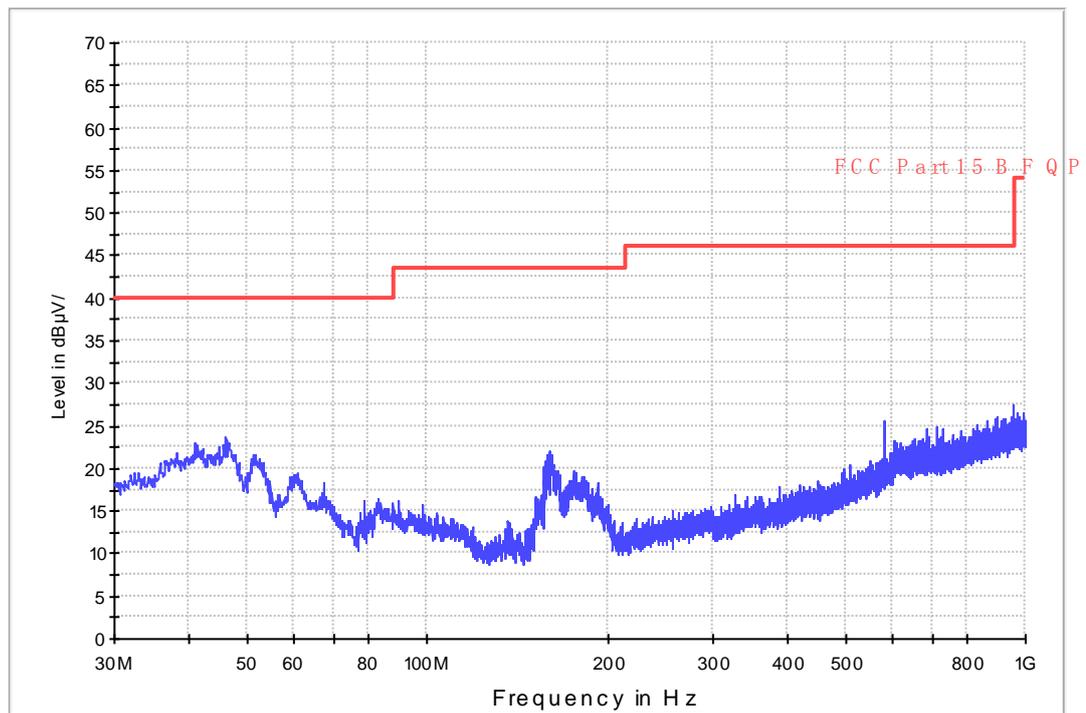
EUT Information

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Operation mode: Changing
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

Field strength 30M-1GHz 1F 3m chamber



1-18G

11b

Ch1

Radiated Emission

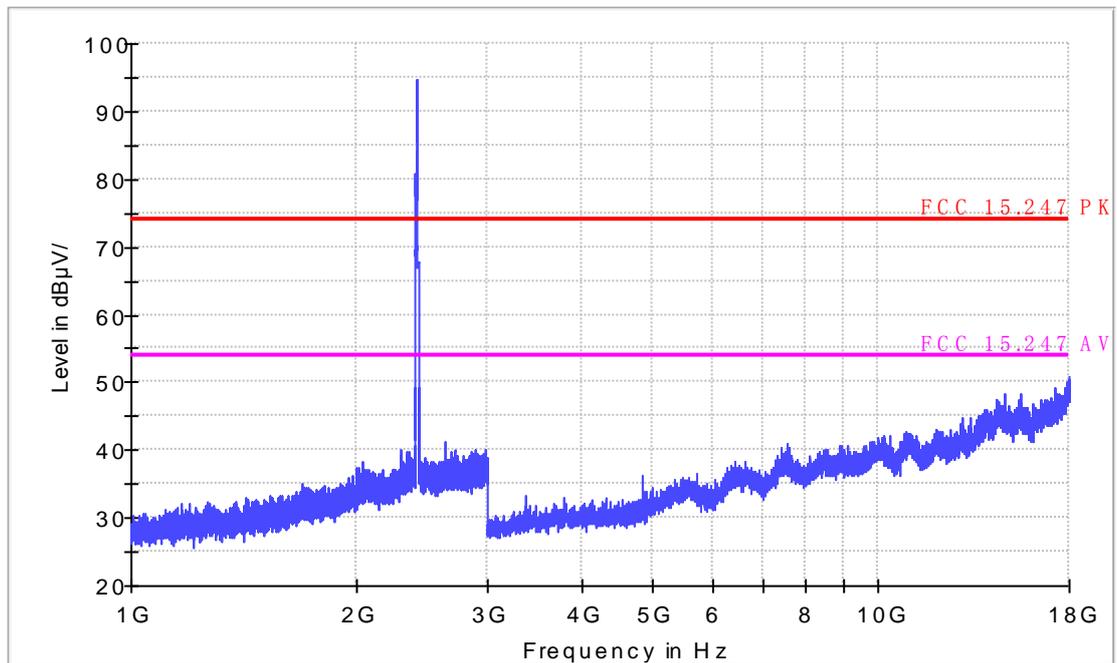
EUT Information

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Operation mode: Wifi 11b CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Radiated Emission

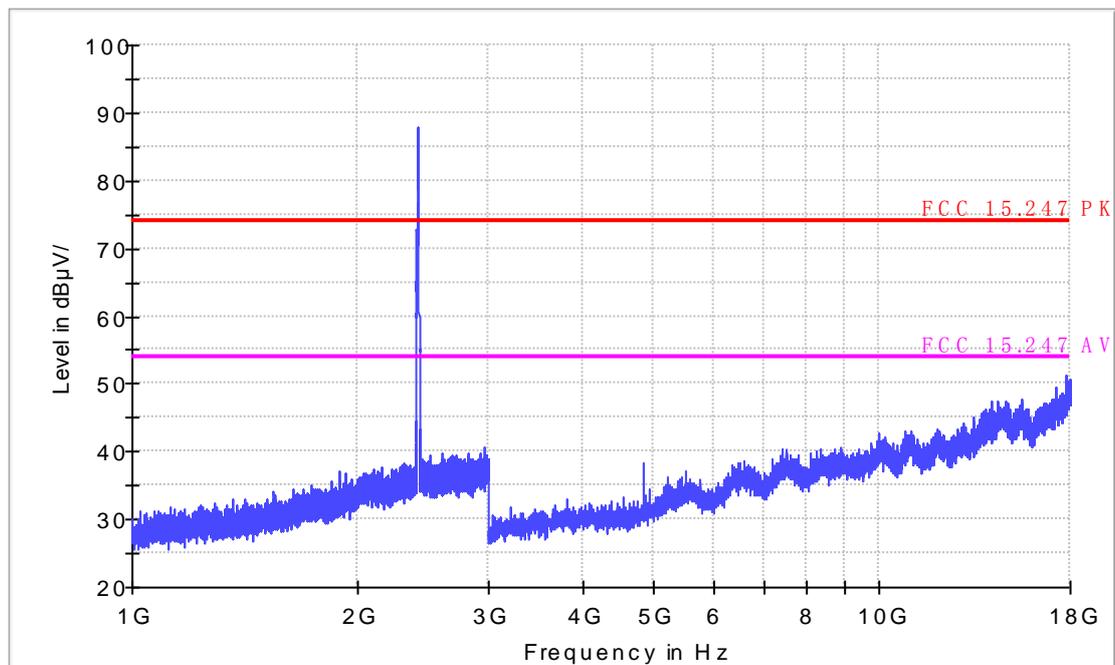
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EUT Model Name: HUAWEI Y560-U03
Operation mode: Wifi 11b CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



1-18G

11b

CH6

Radiated Emission

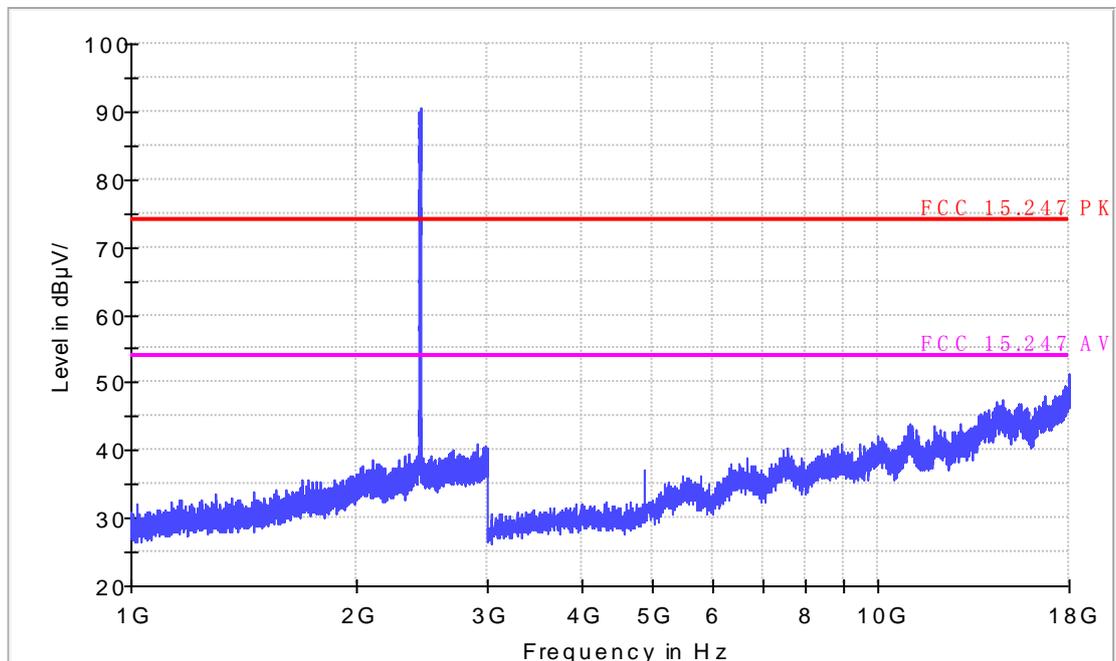
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Operation mode: Wifi 11b CH6
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Radiated Emission

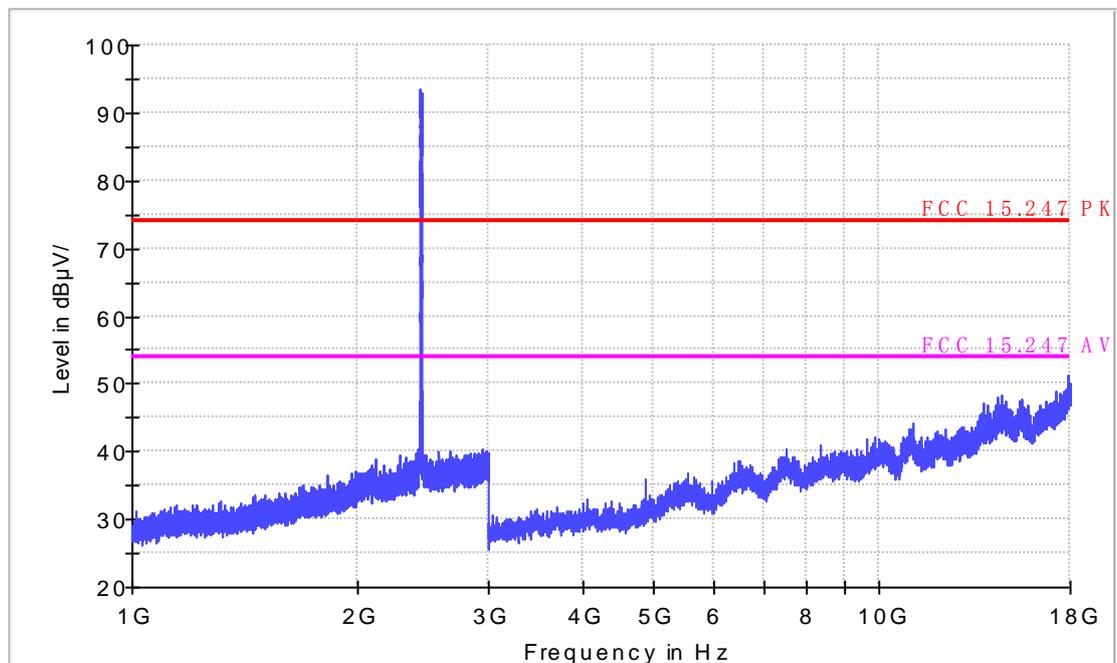
EUT Information

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Operation mode: Wifi 11b CH6
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



1-18G

11b

CH11

Radiated Emission

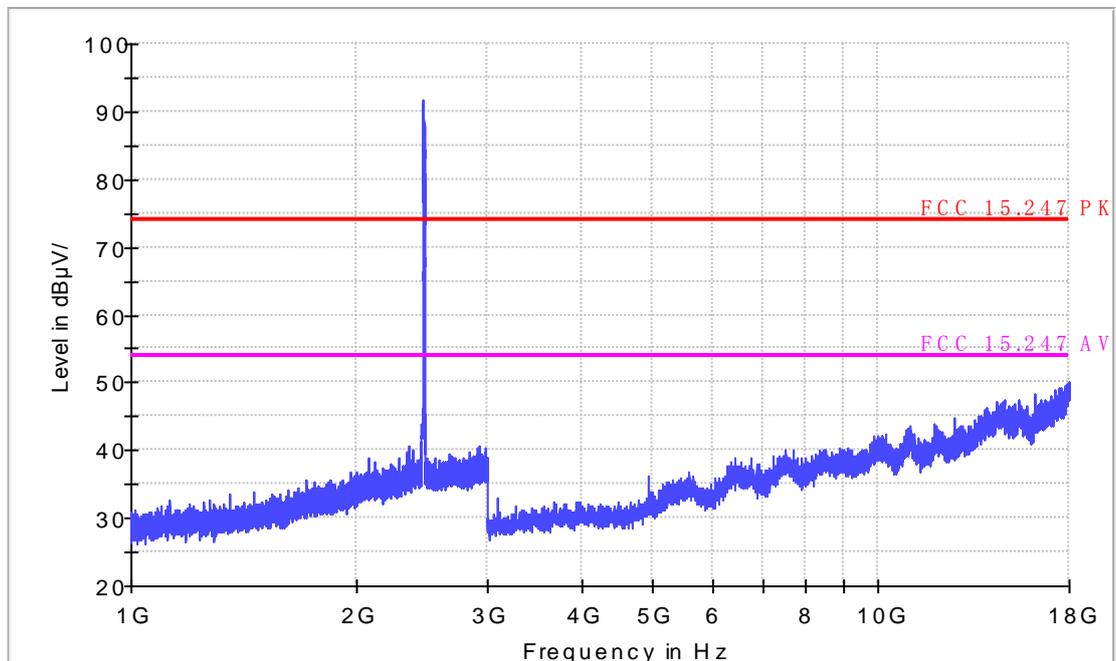
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Operation mode: Wifi 11b CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Radiated Emission

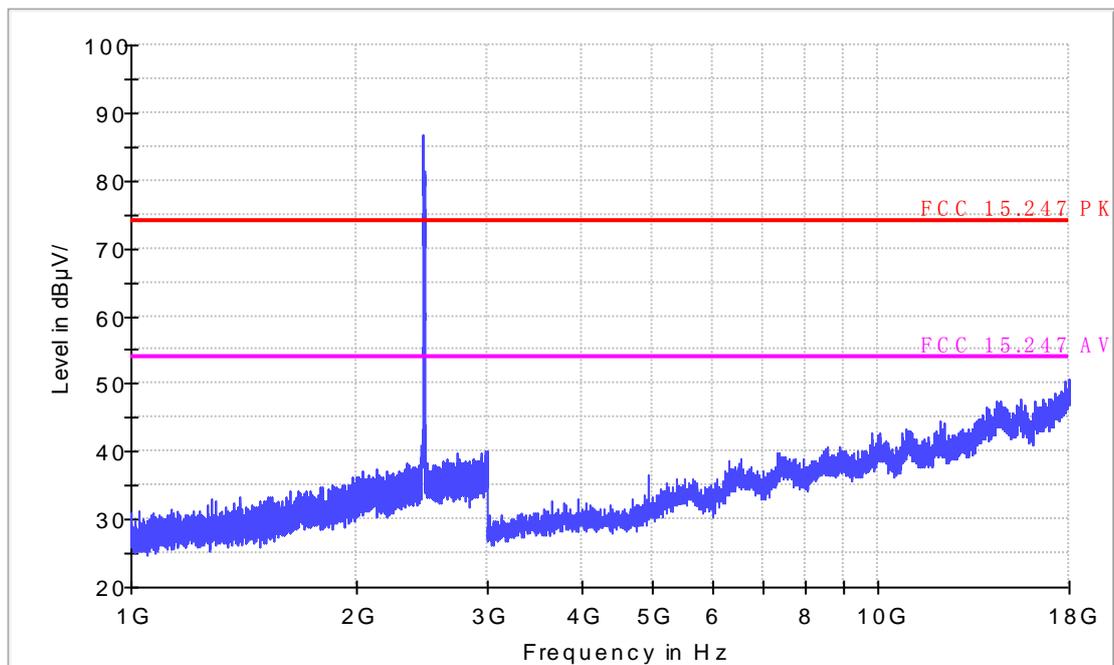
EUT Information

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Operation mode: Wifi 11b CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



1-18G

11g

CH1

Radiated Emission

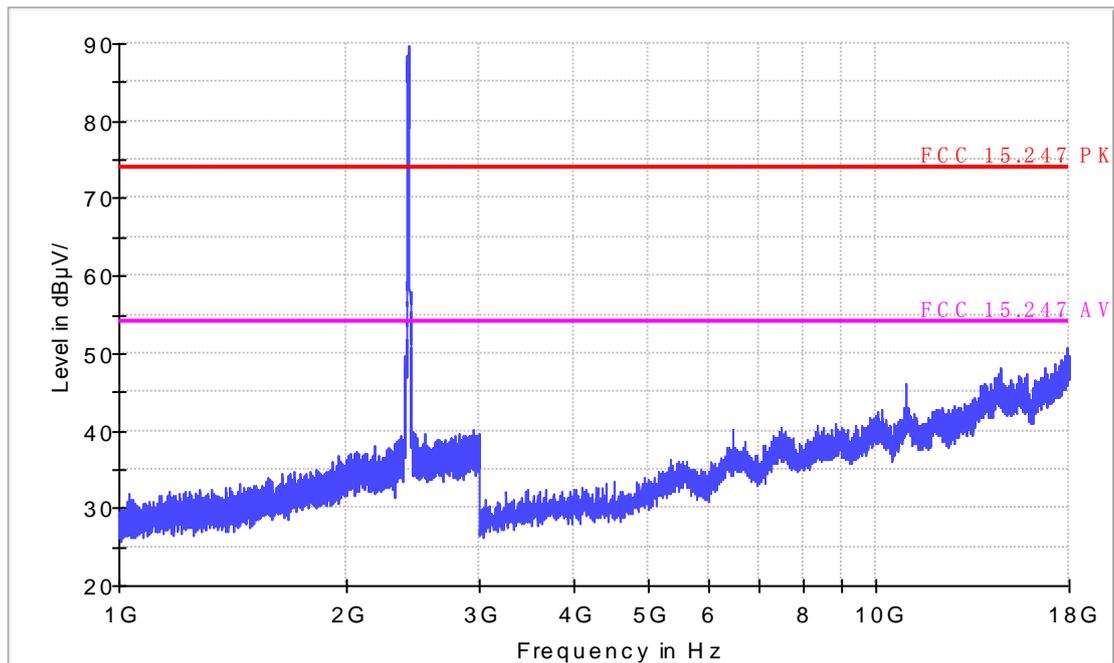
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Operation mode: Wifi 11g CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Radiated Emission

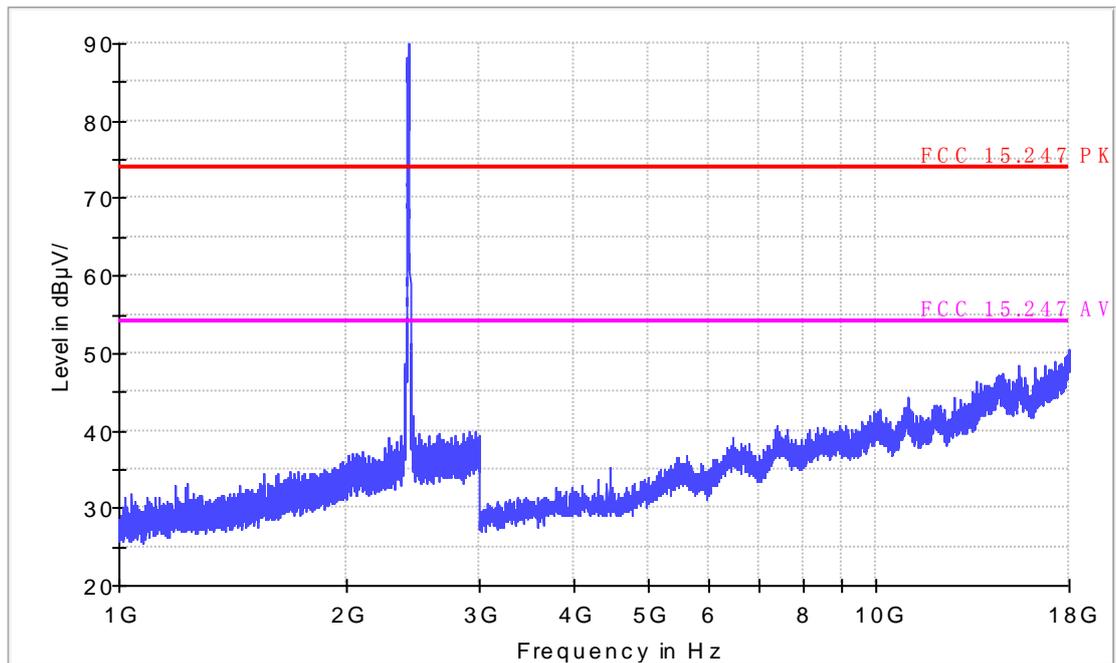
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: Wifi 11a CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



1-18G

11g

CH6

Radiated Emission

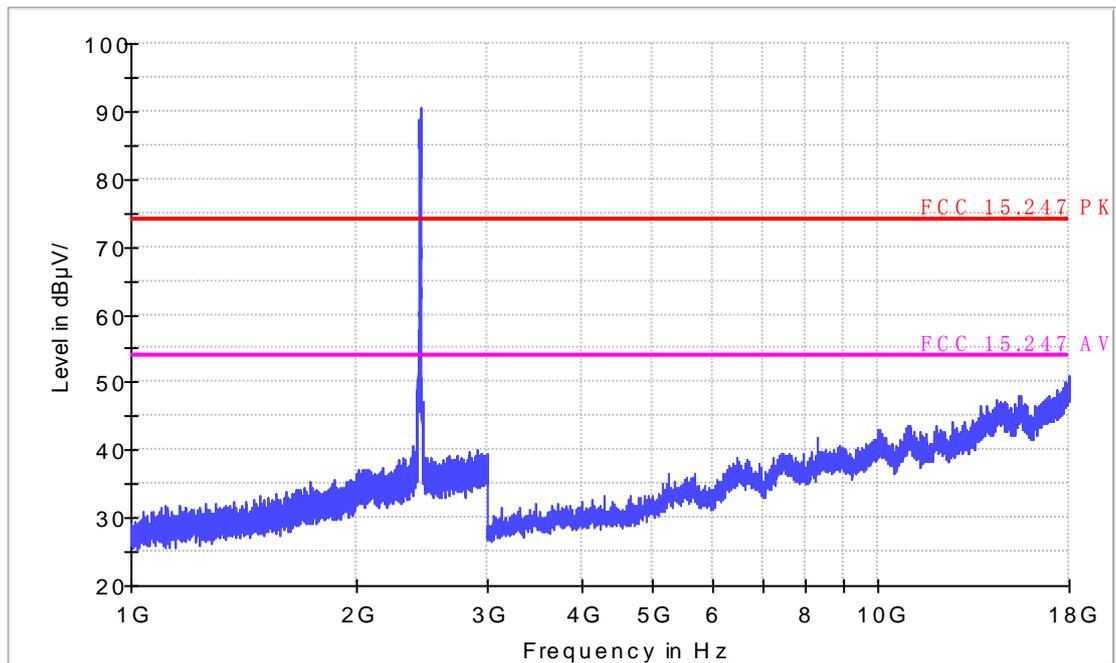
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Operation mode: Wifi 11g CH6
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Radiated Emission

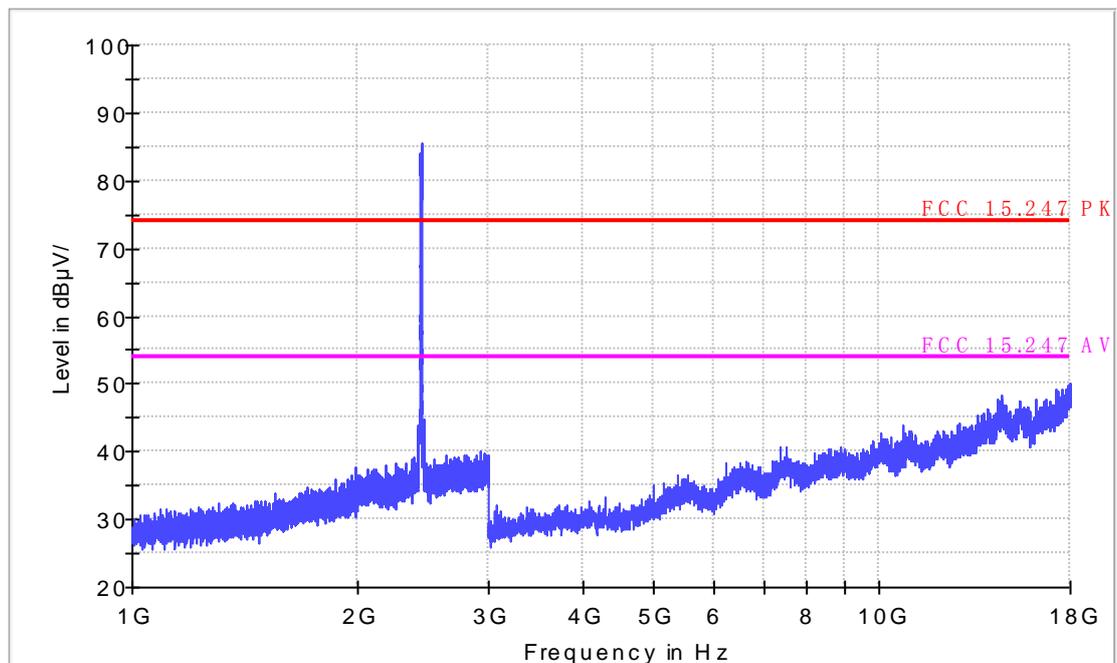
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Operation mode: Wifi 11g CH6
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



1-18G

11g

CH11

Radiated Emission

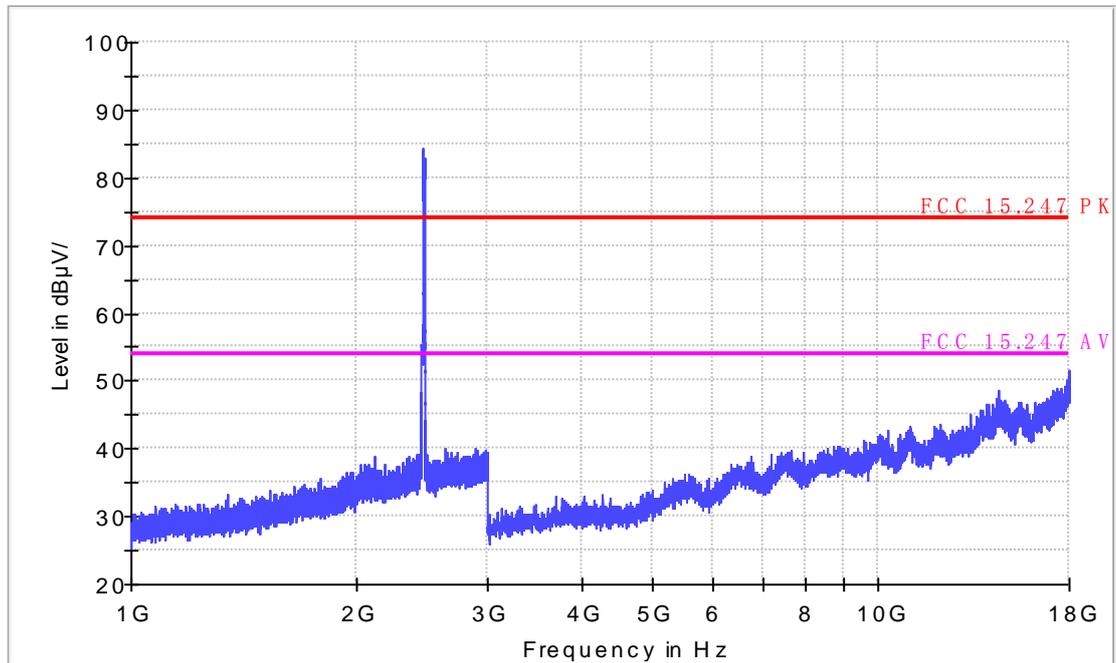
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Operation mode: Wifi 11a CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Radiated Emission

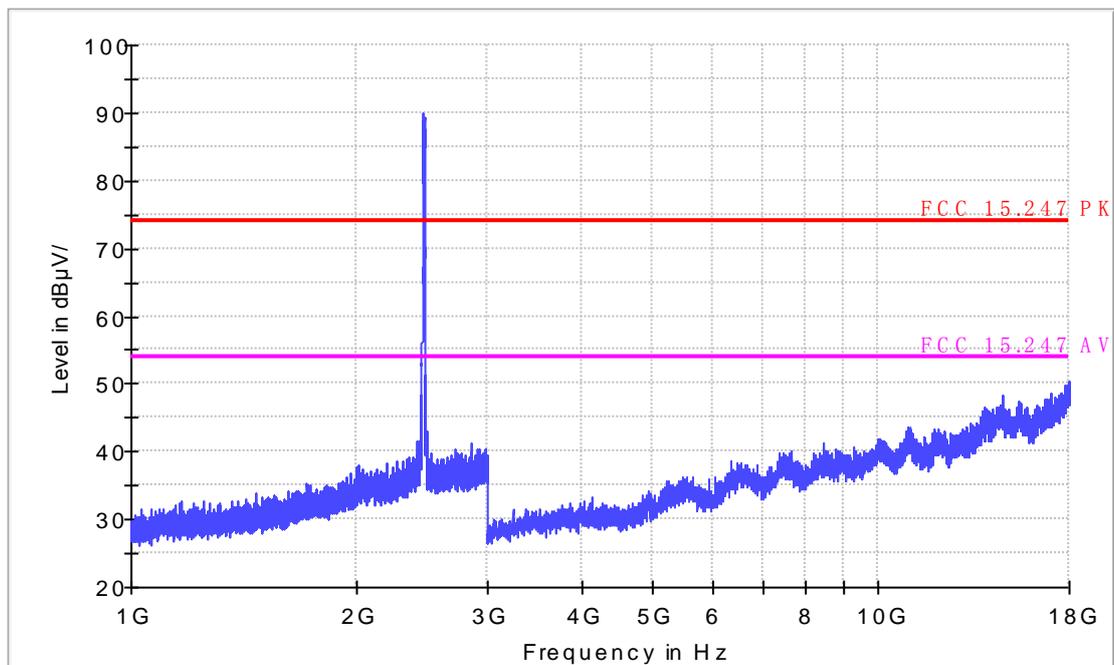
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Operation mode: Wifi 11g CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



1-18G
11n-HT20
CH1

Radiated Emission

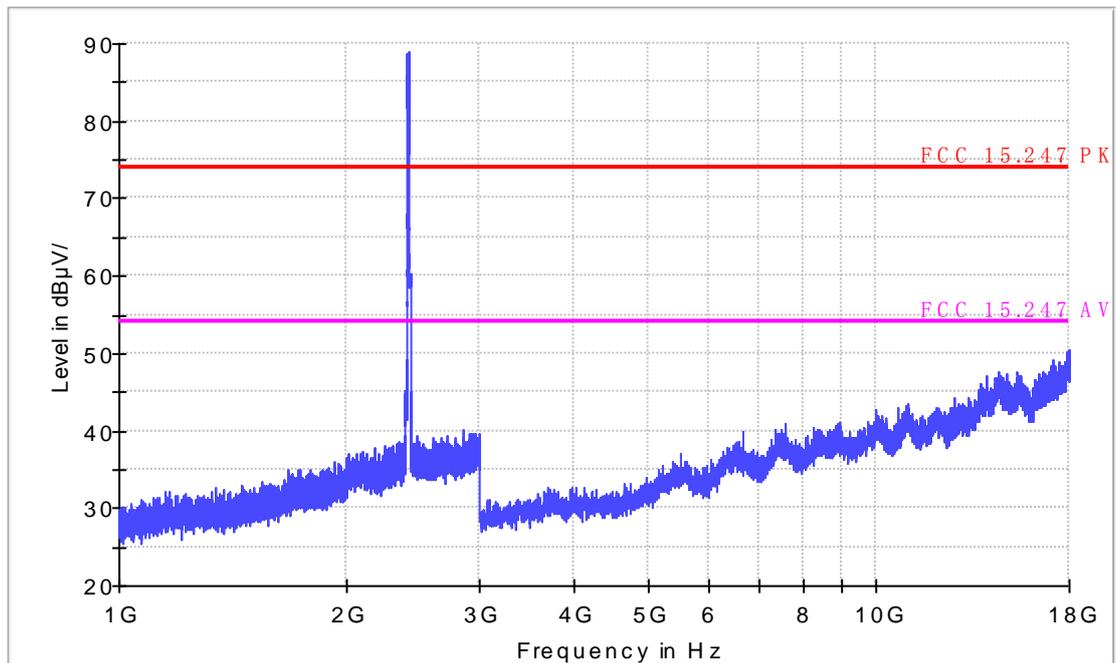
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Operation mode: Wifi 11n HT20 CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Radiated Emission

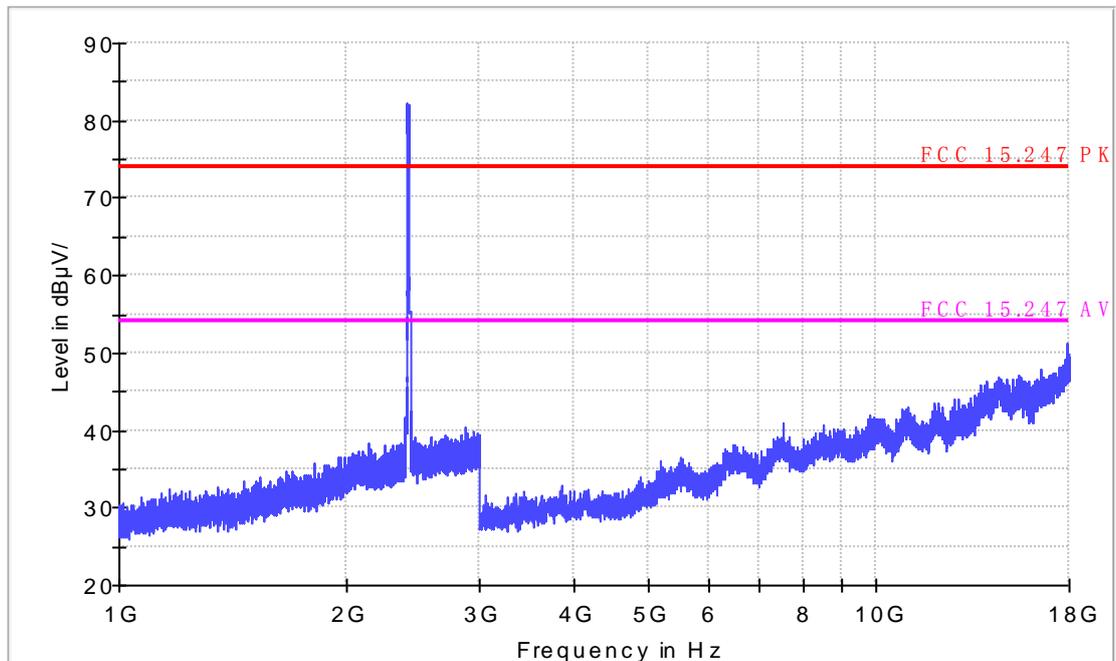
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Operation mode: Wifi 11n HT20 CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



1-18G
11n-HT20
CH6

Radiated Emission

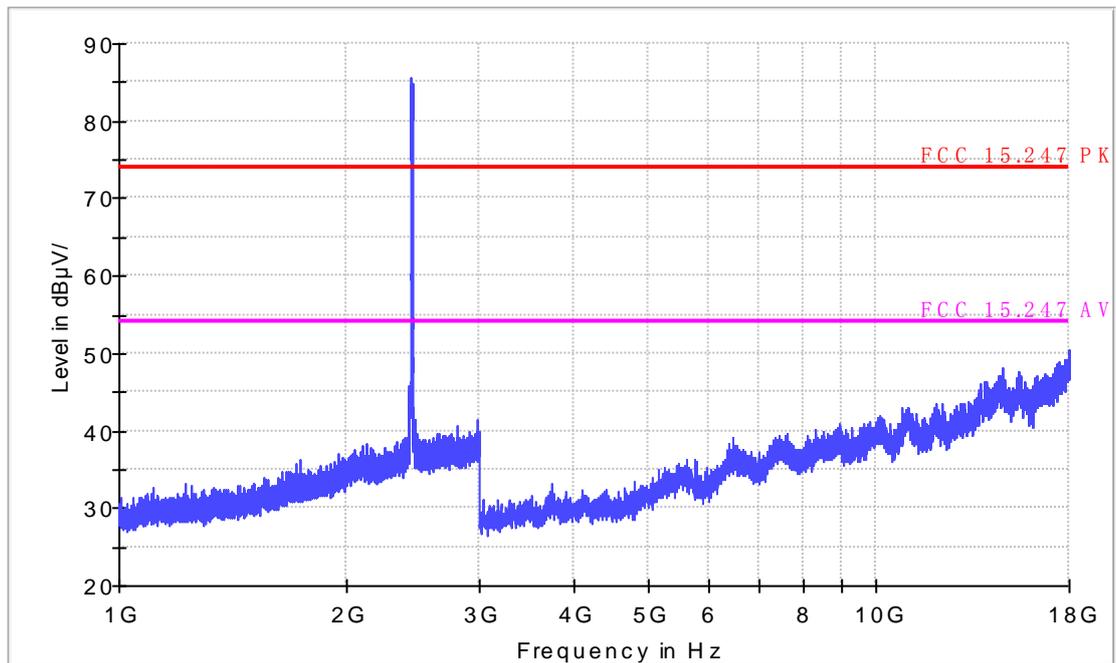
EUT Information

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Operation mode: Wifi 11n HT20 CH6
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Radiated Emission

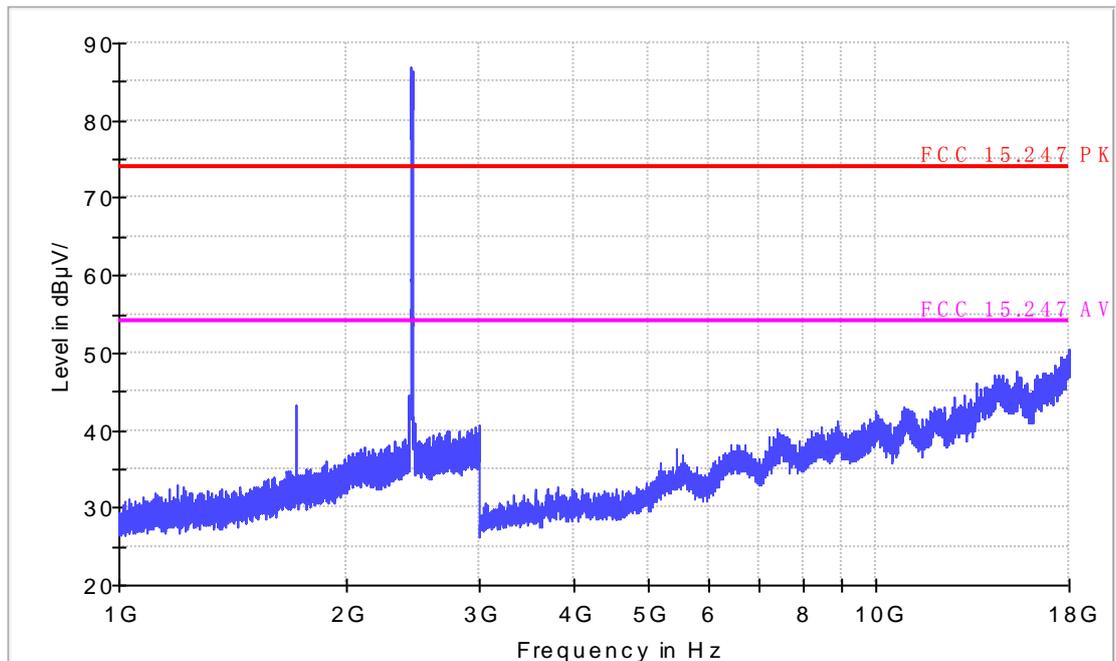
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: Wifi 11n HT20 CH6
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



1-18G
11n-HT20
CH11

Radiated Emission

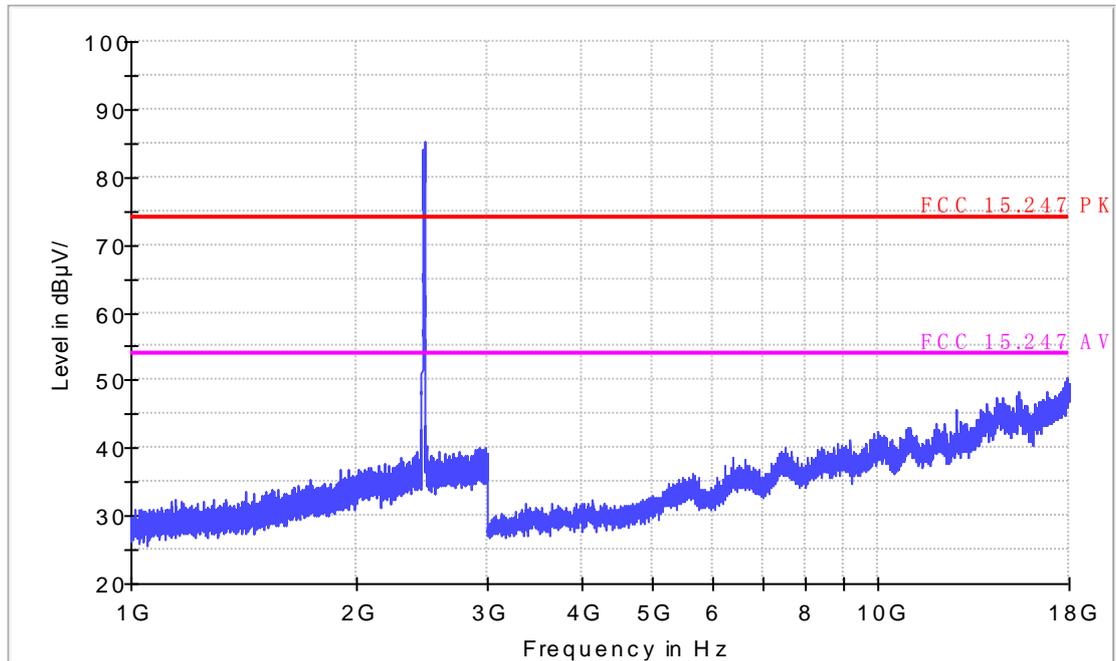
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: Wifi 11n HT20 CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Radiated Emission

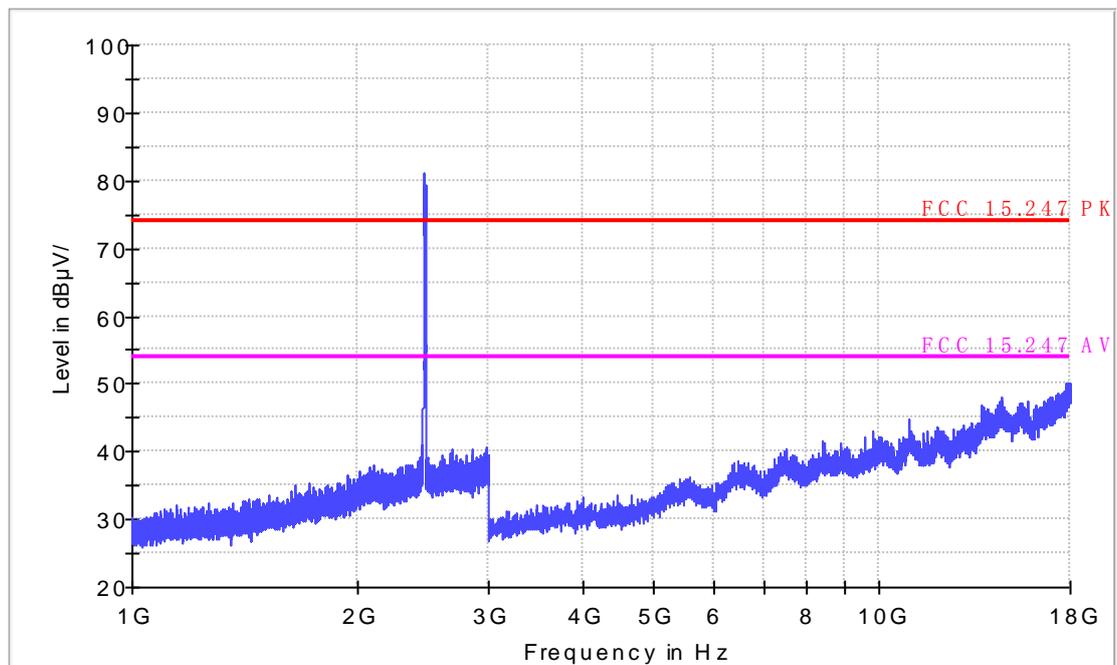
EUT Information

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Operation mode: Wifi 11n HT20 CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



1-18G
11n-HT40
CH3

Radiated Emission

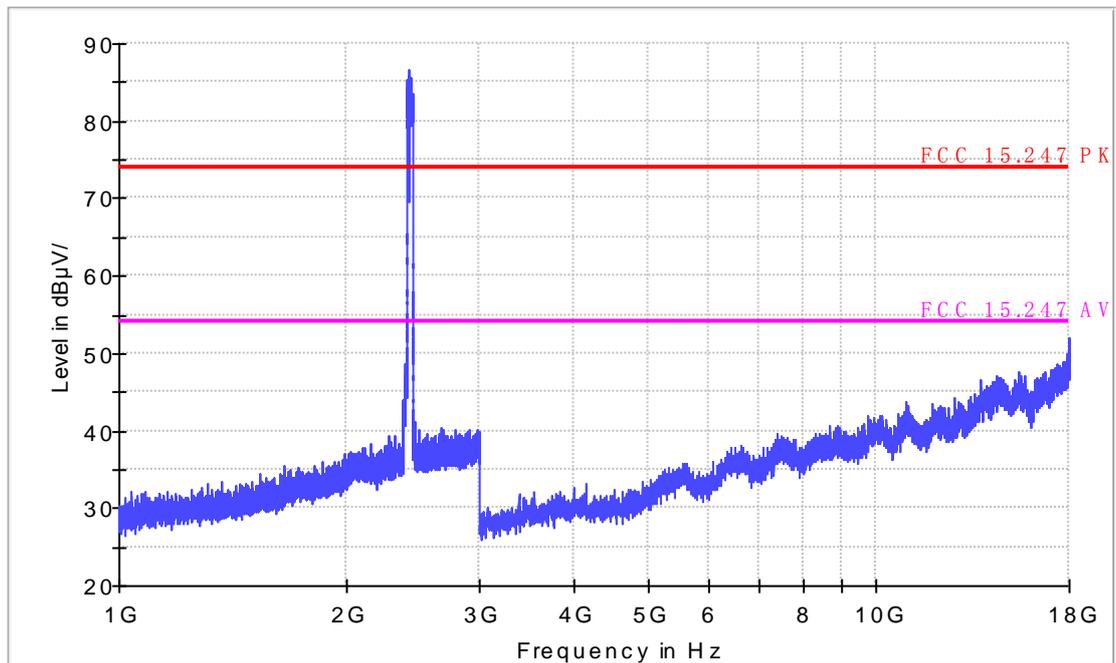
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: Wifi 11n HT40 CH3
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Radiated Emission

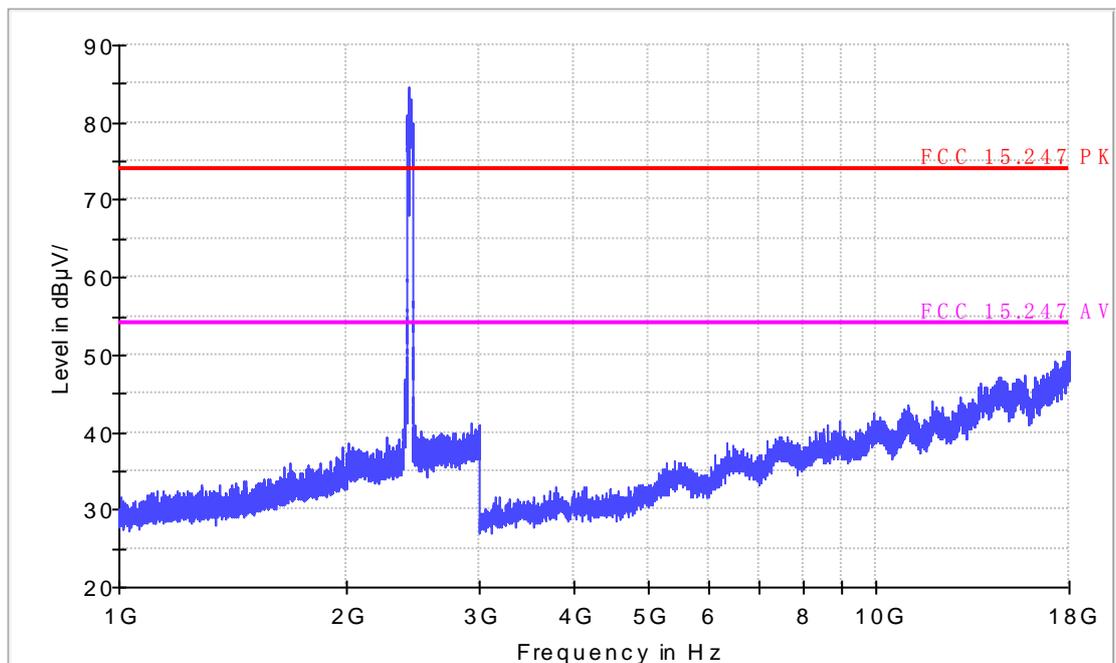
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: Wifi 11n HT20 CH3
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



1-18G
11n-HT20
CH6

Radiated Emission

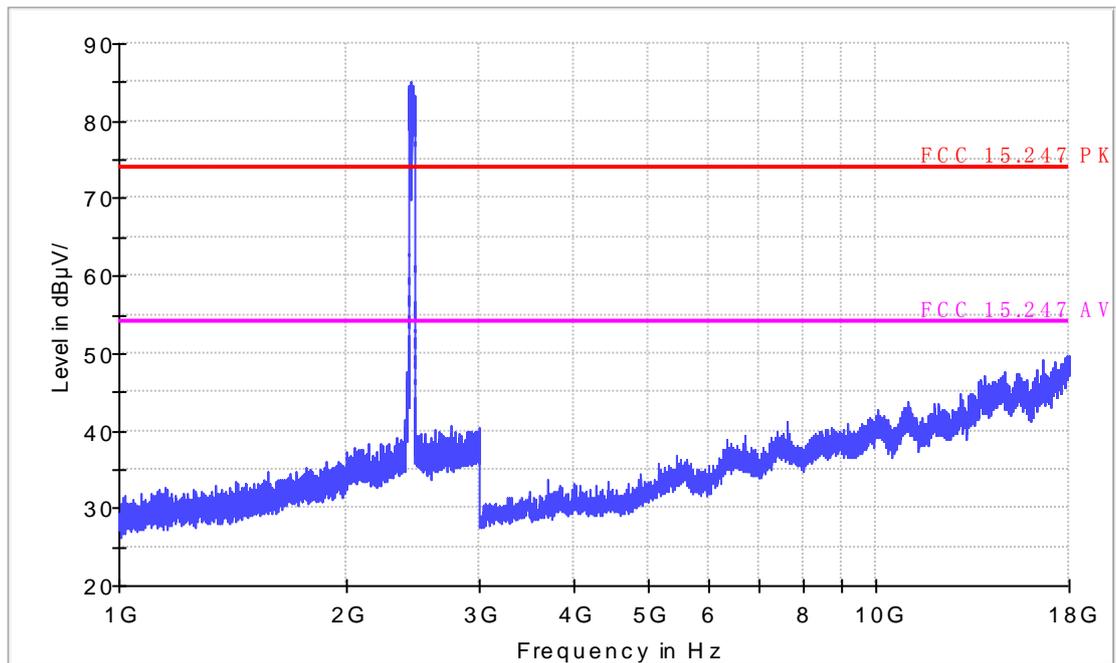
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: Wifi 11n HT40 CH6
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Radiated Emission

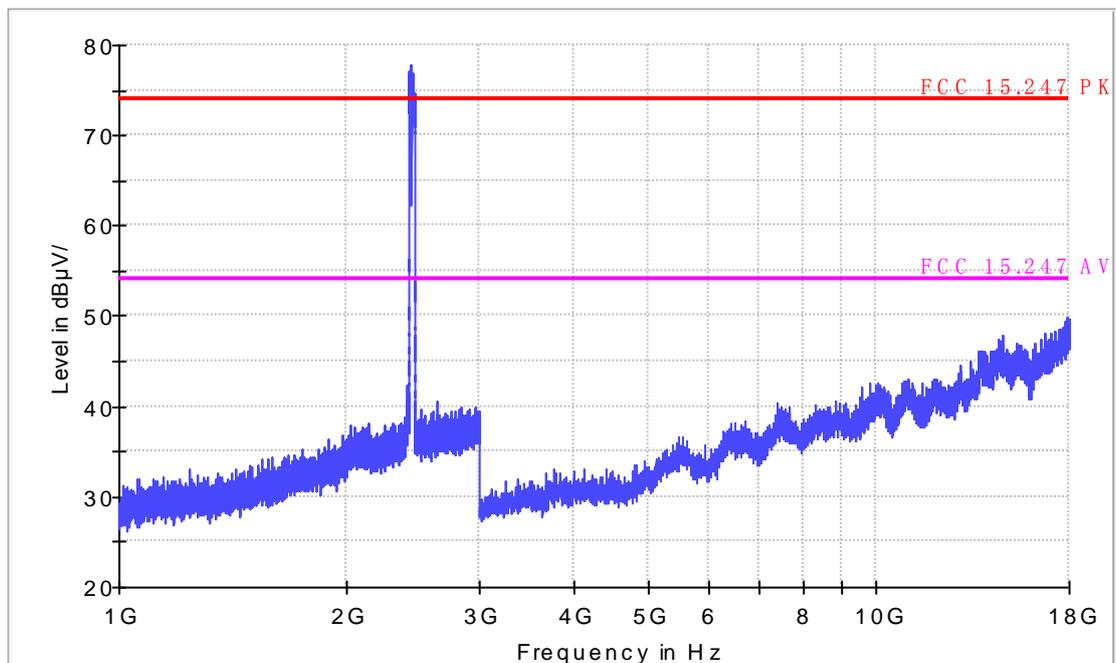
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: Wifi 11n HT40 CH6
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



1-18G
11n-HT20
CH11

Radiated Emission

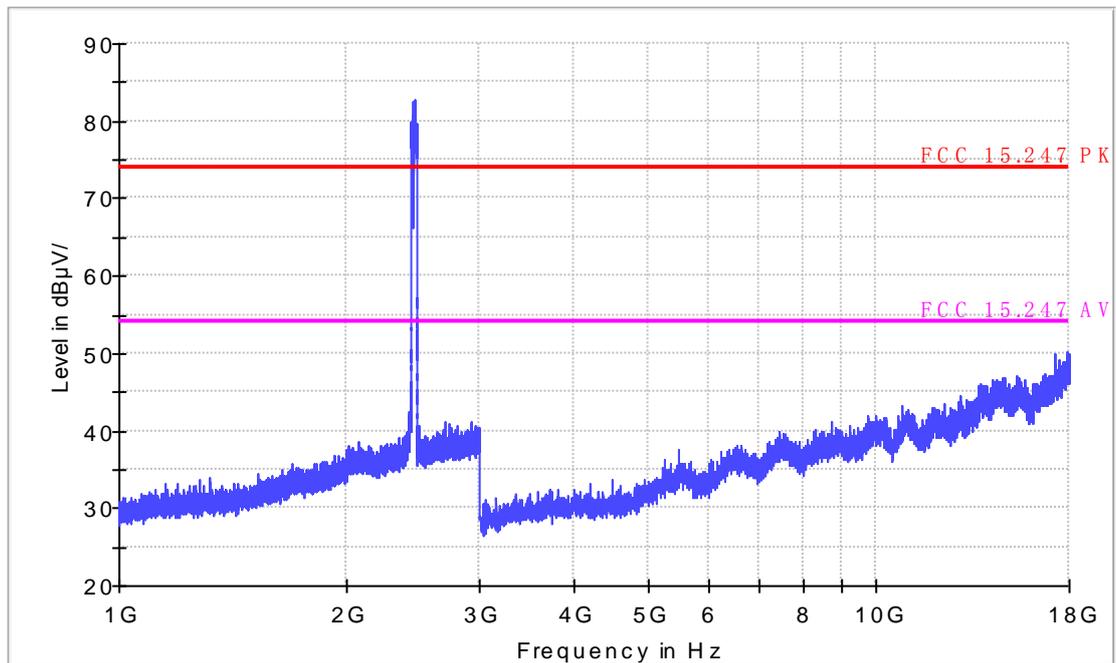
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: Wifi 11n HT40 CH9
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Radiated Emission

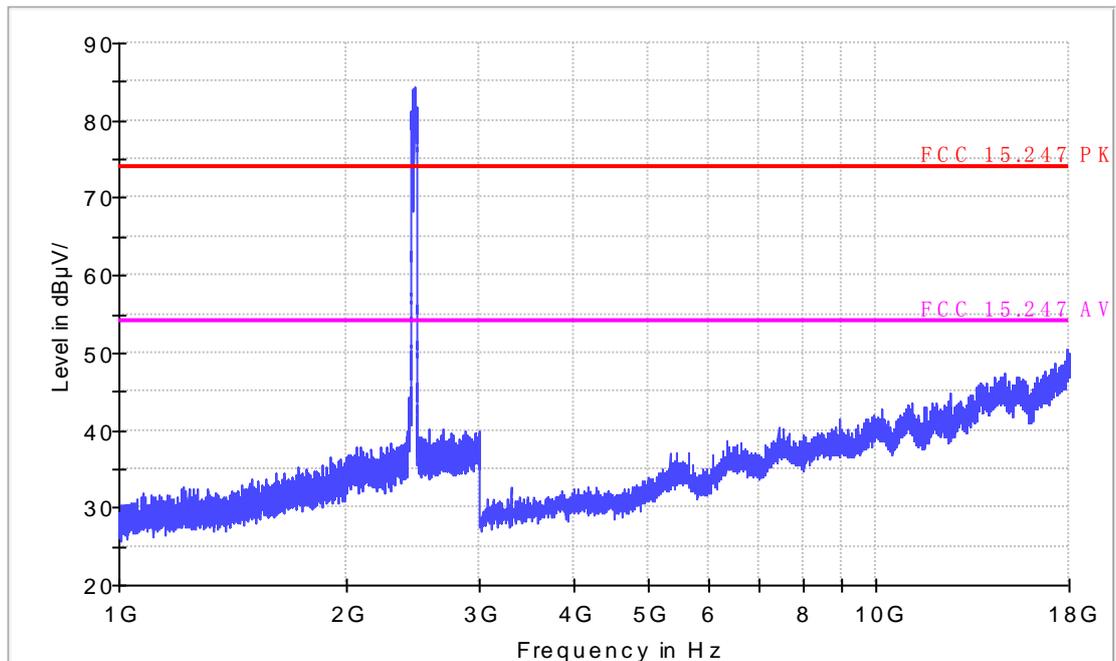
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: Wifi 11n HT40 CH9
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Radiated Emission

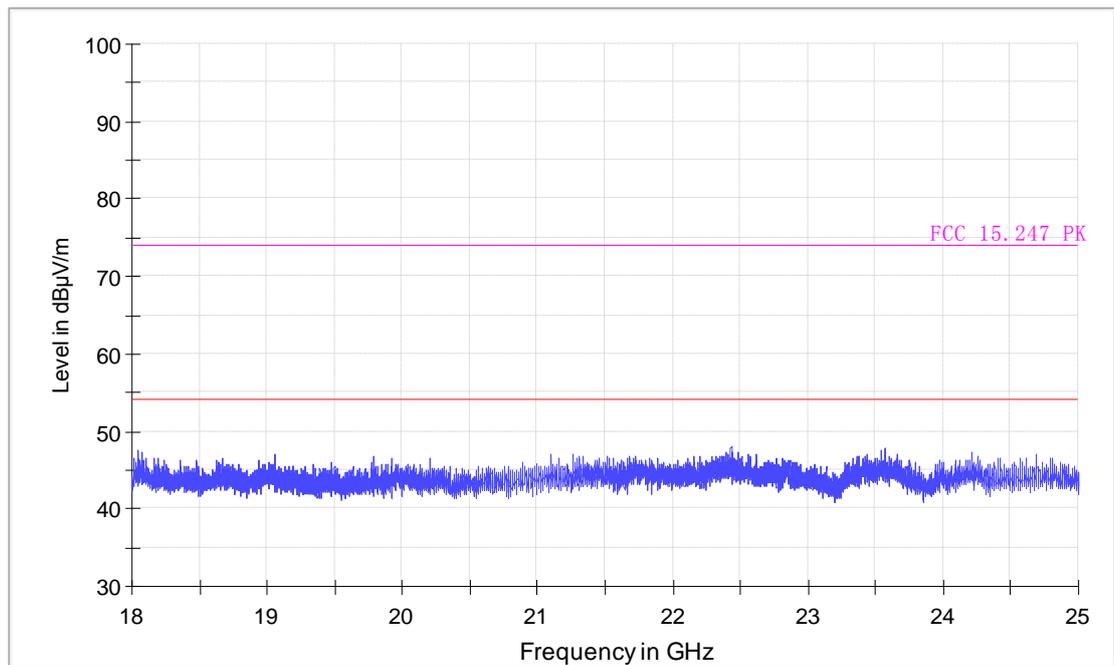
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: 11b CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

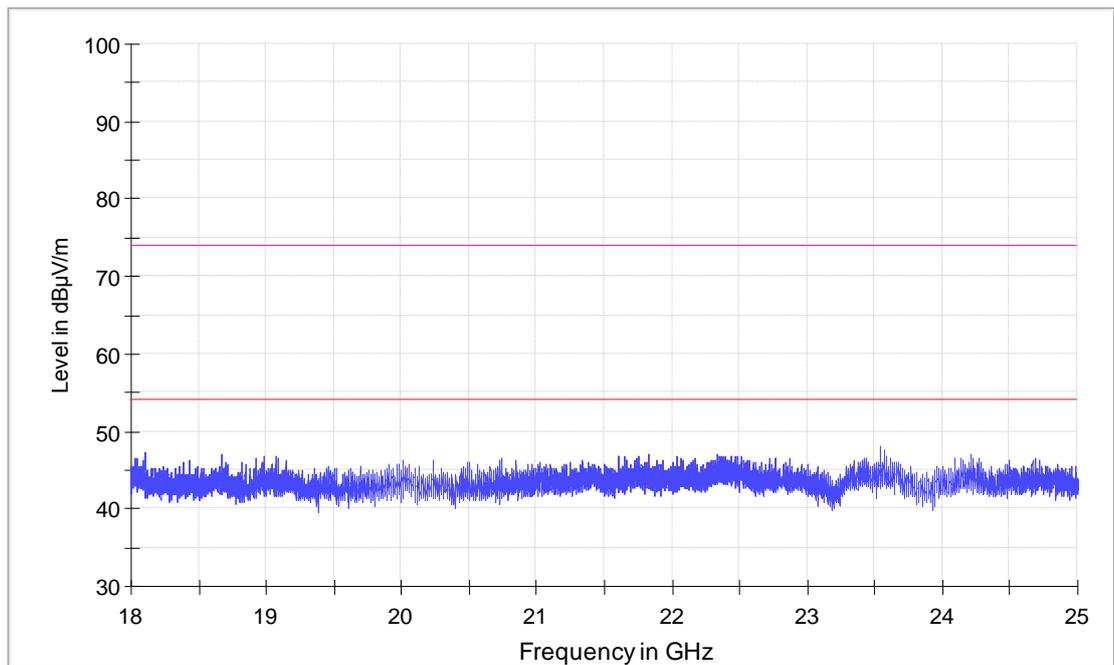
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: 11b CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

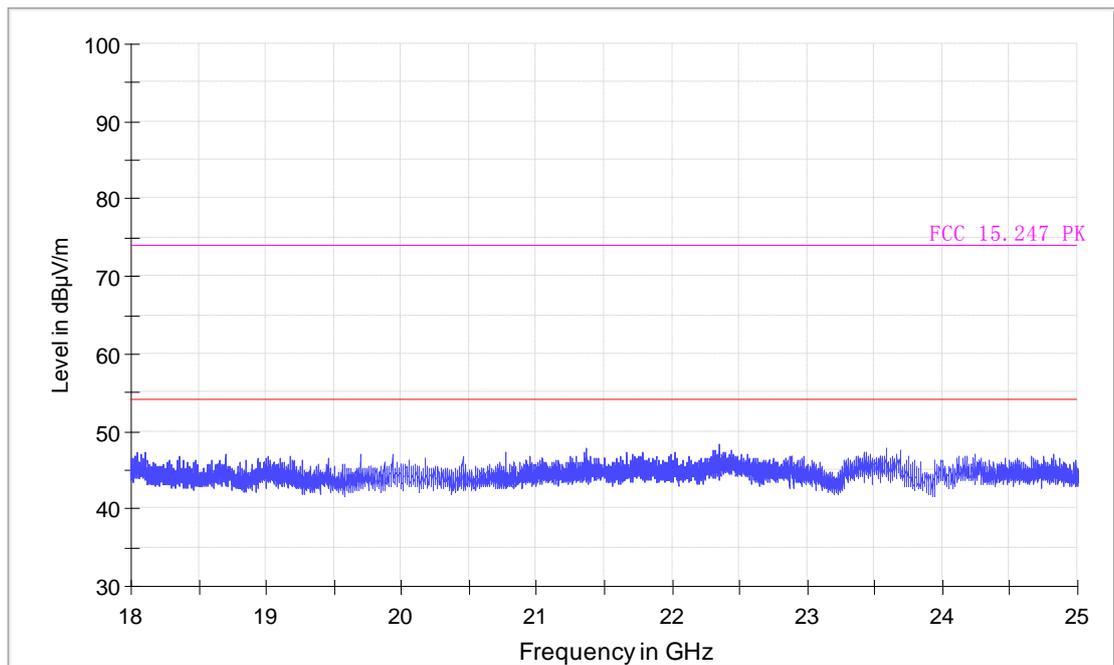
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: 11b CH6
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

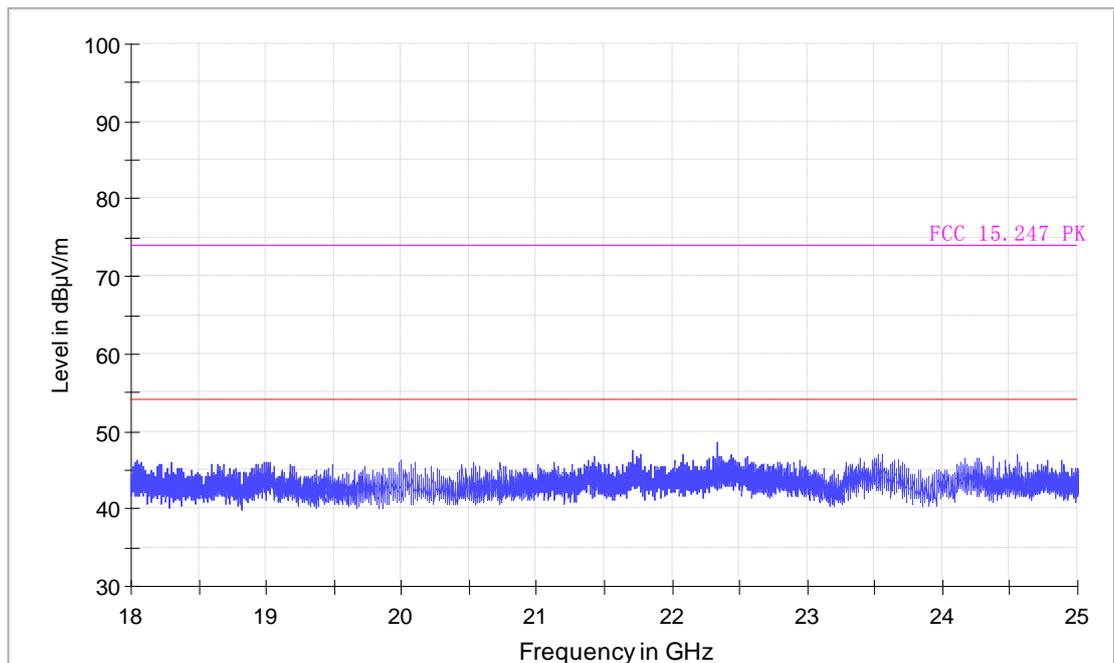
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: 11b CH6
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

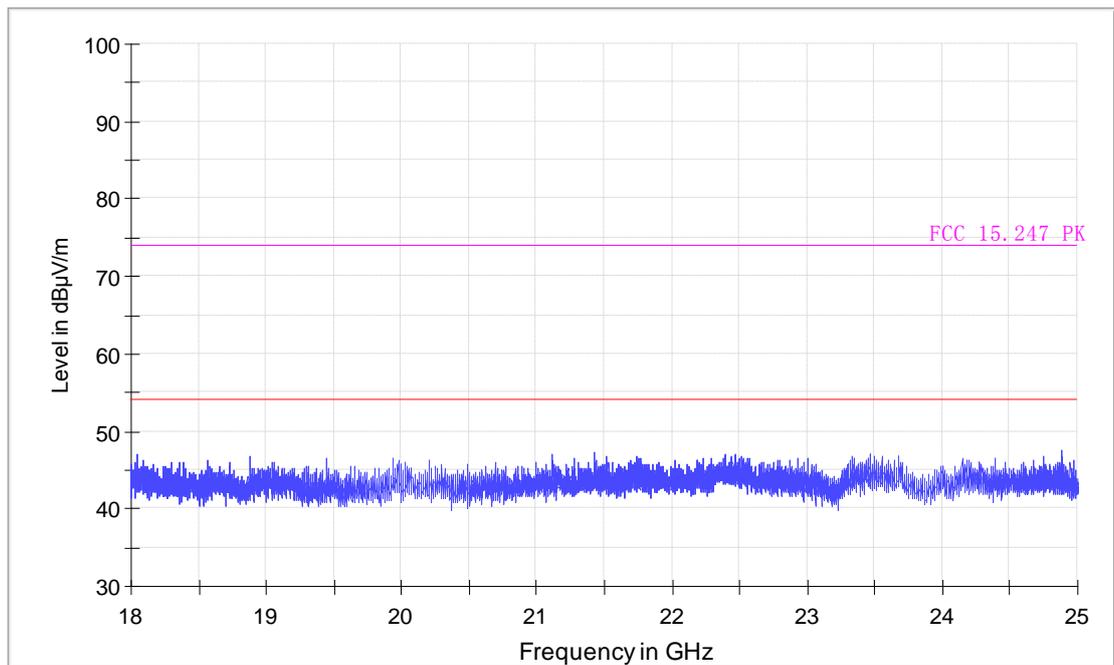
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: 11b CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

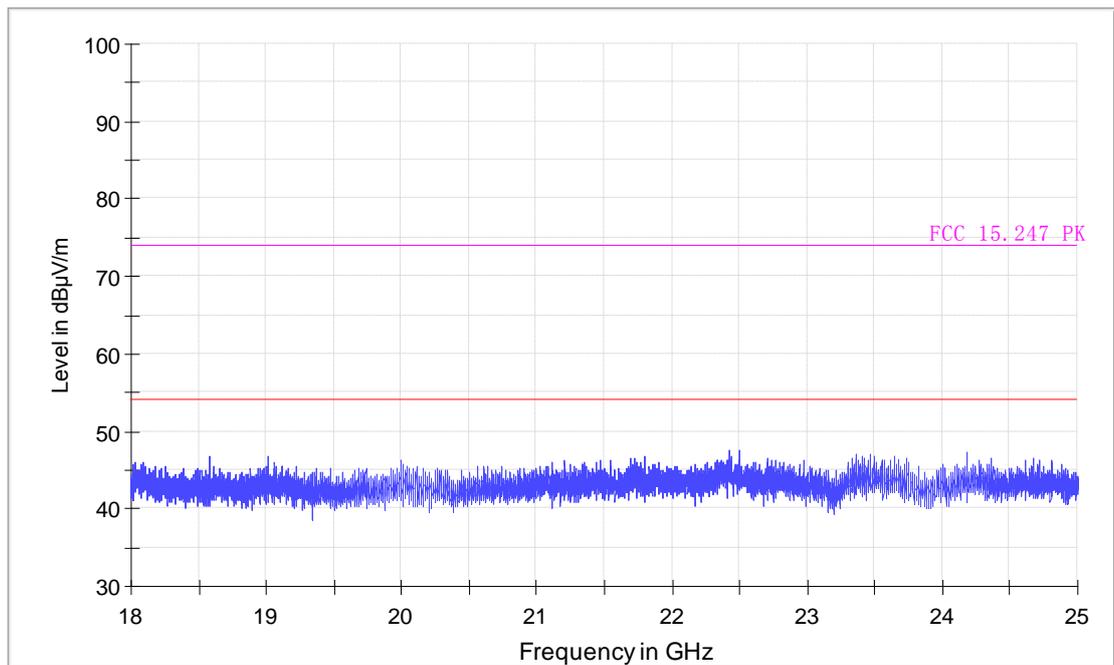
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: 11b CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

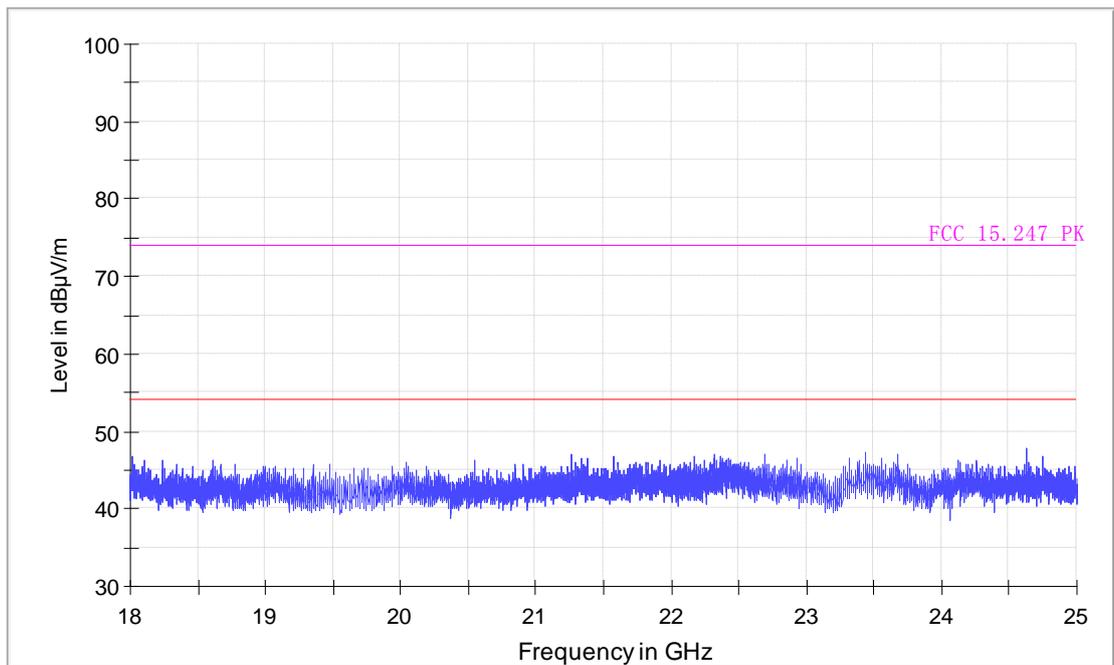
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: 11q CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

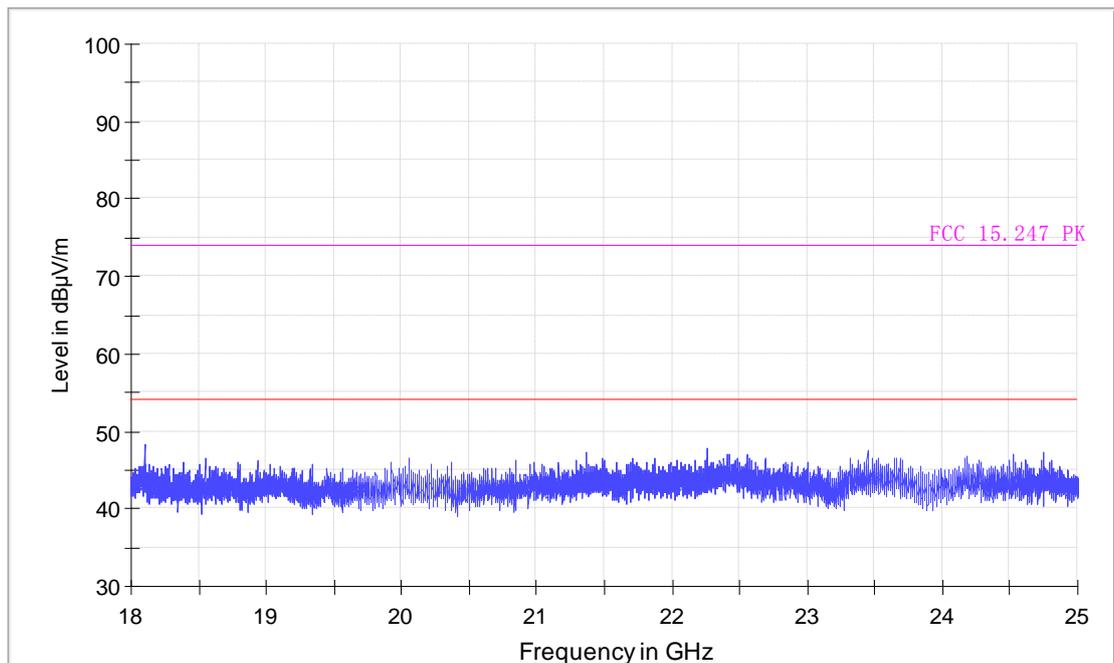
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: 11q CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

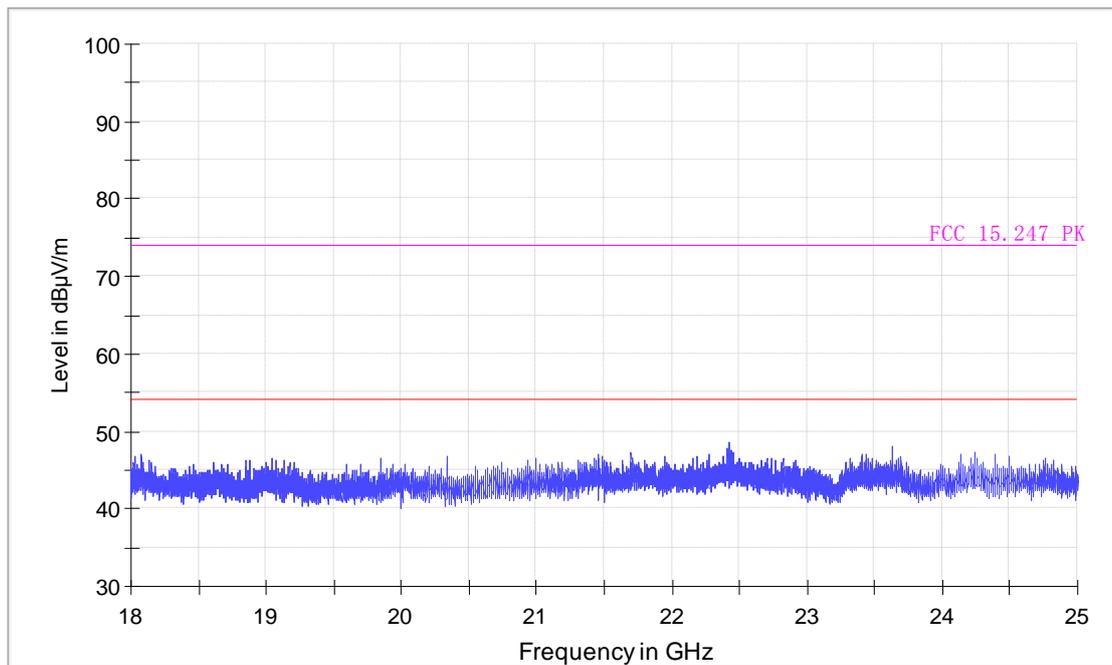
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: 11qCH6
Test Voltage:
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Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

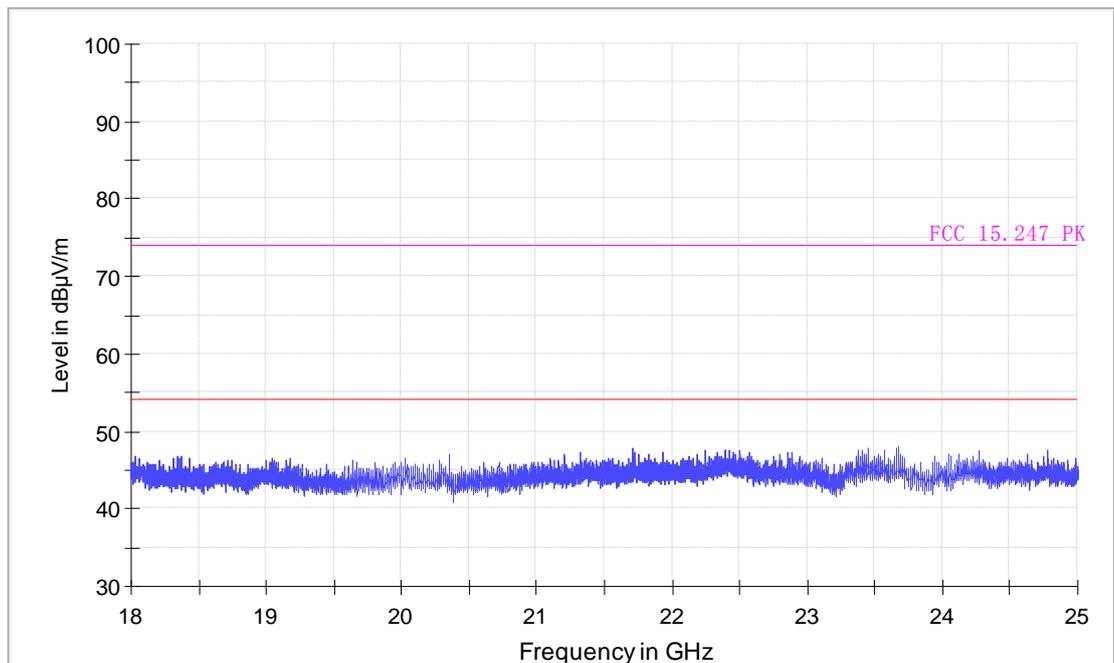
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EUT Model Name: HUAWEI Y560-U03
Operation mode: 11qCH6
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

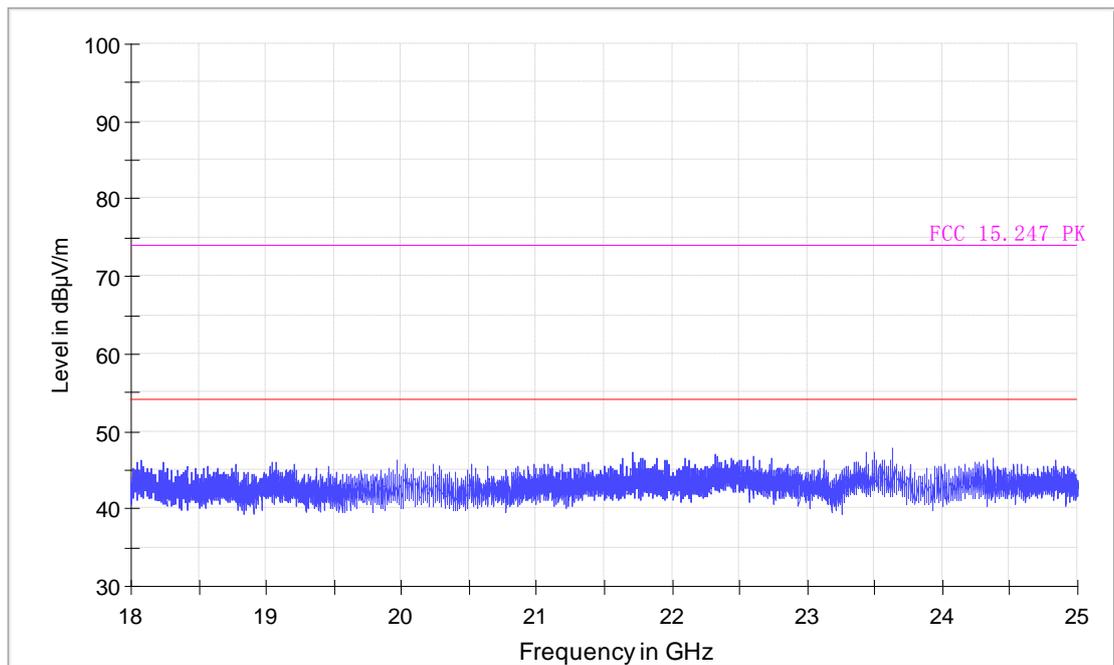
EUT Information

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Operation mode: 11q CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

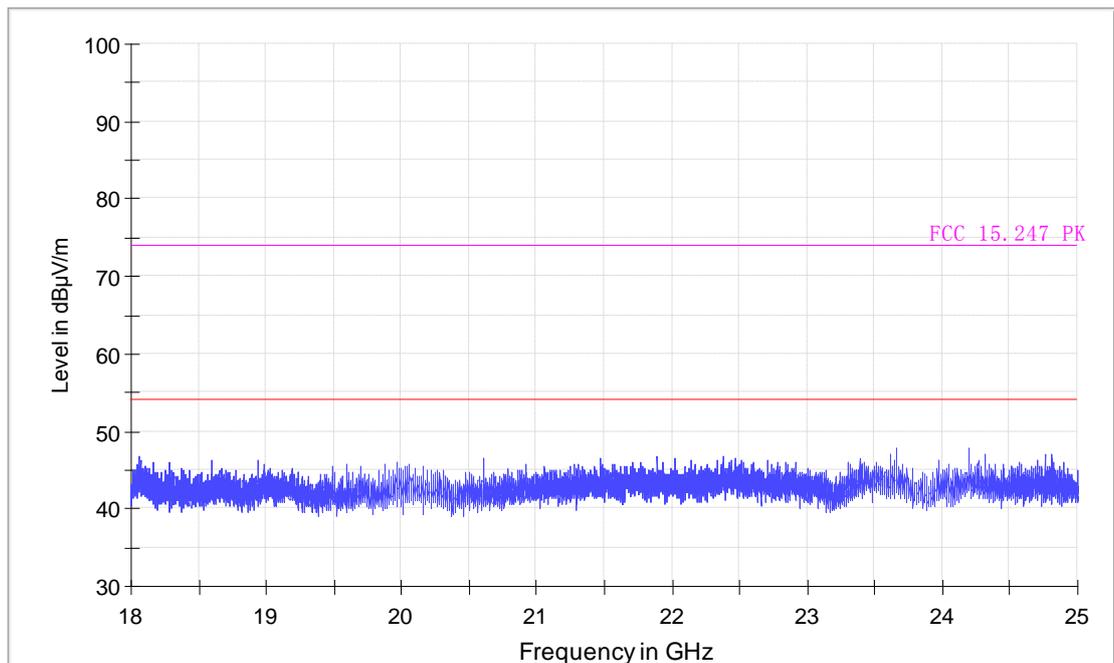
EUT Information

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Operation mode: 11q CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

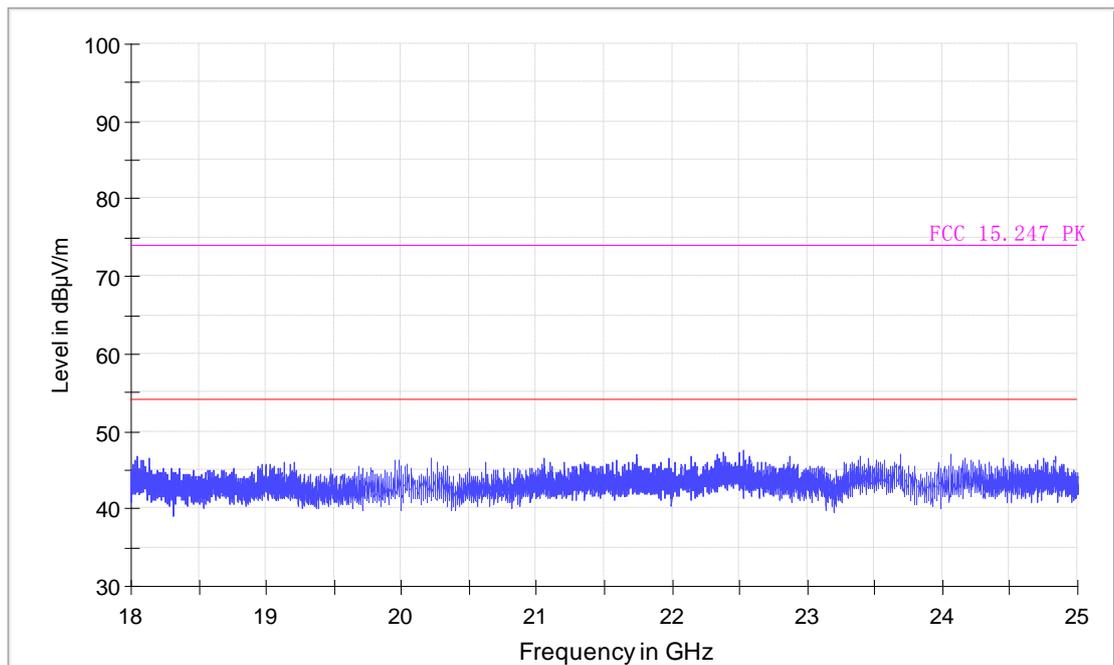
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: 11n-HT20 CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

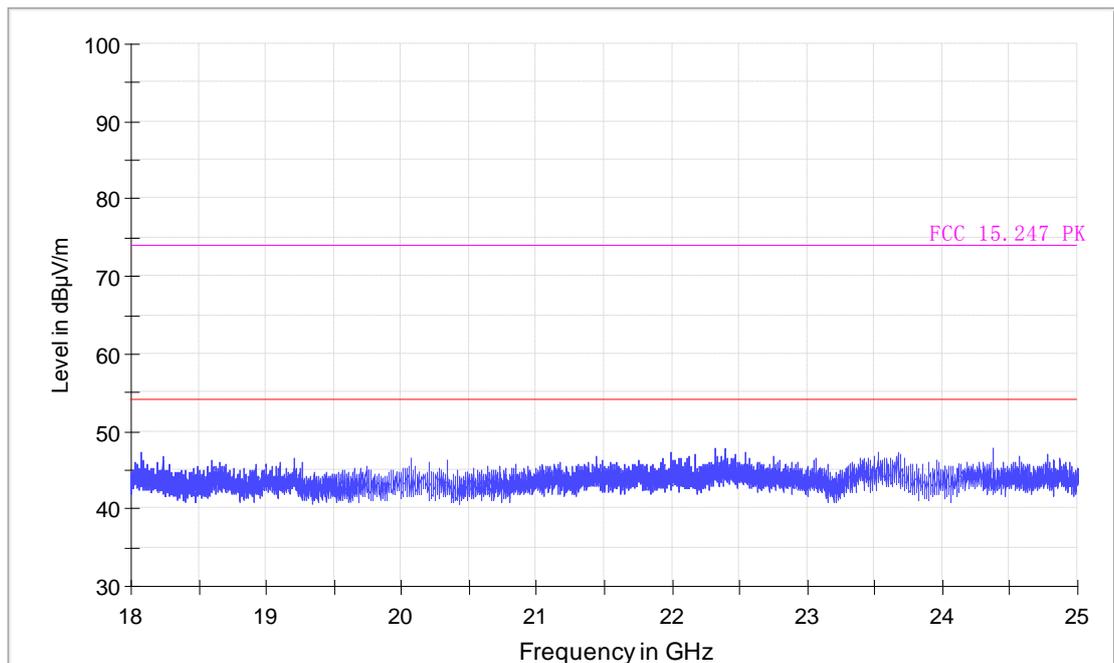
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: 11n-HT20 CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

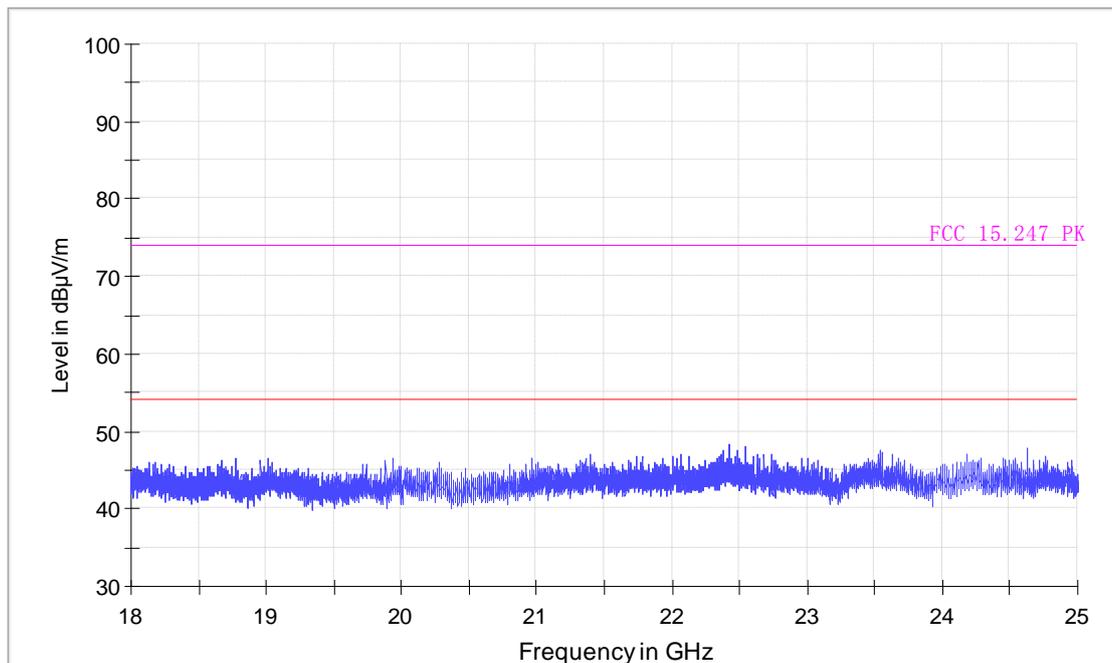
EUT Information

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Operation mode: 11n-HT20 CH6
Test Voltage:
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Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

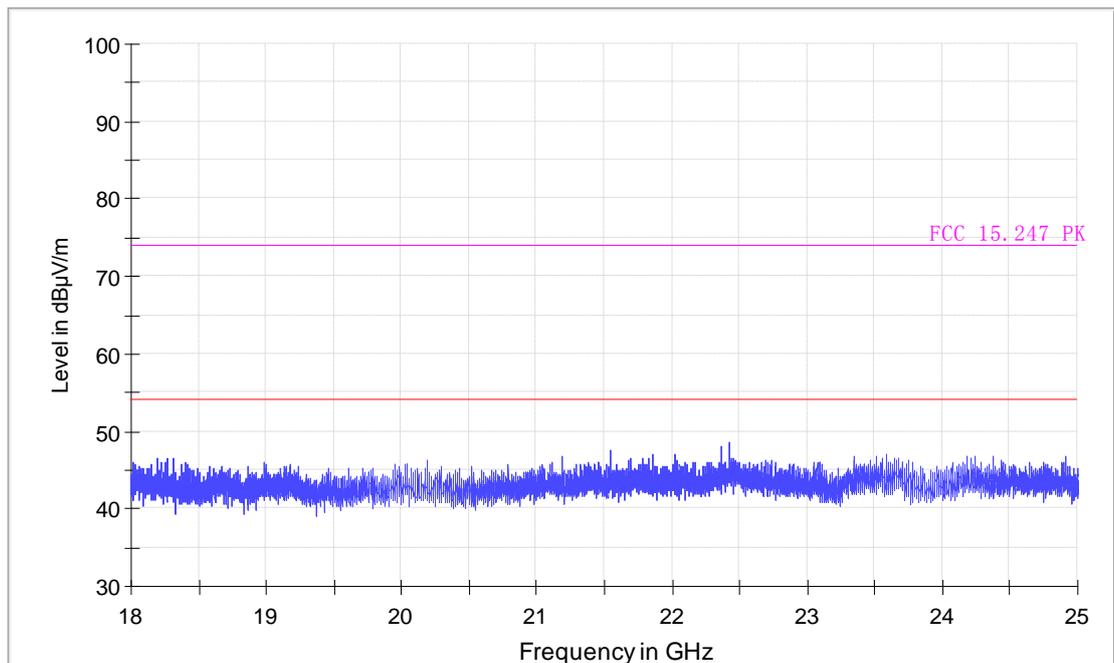
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Operation mode: 11n-HT20 CH6
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

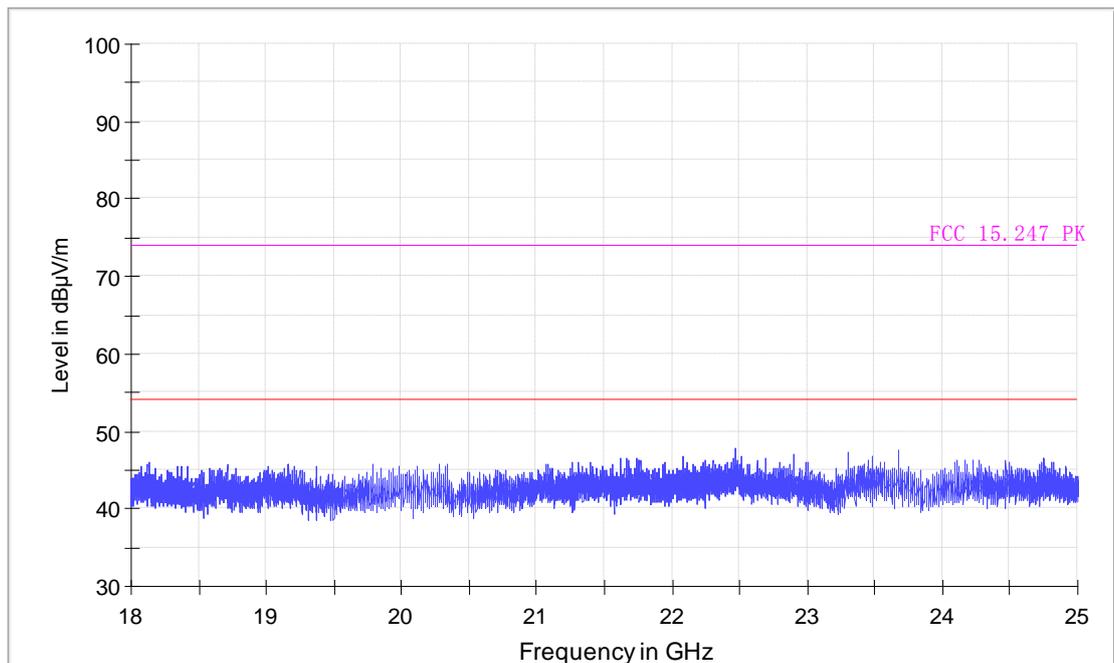
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: 11n-HT20 CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

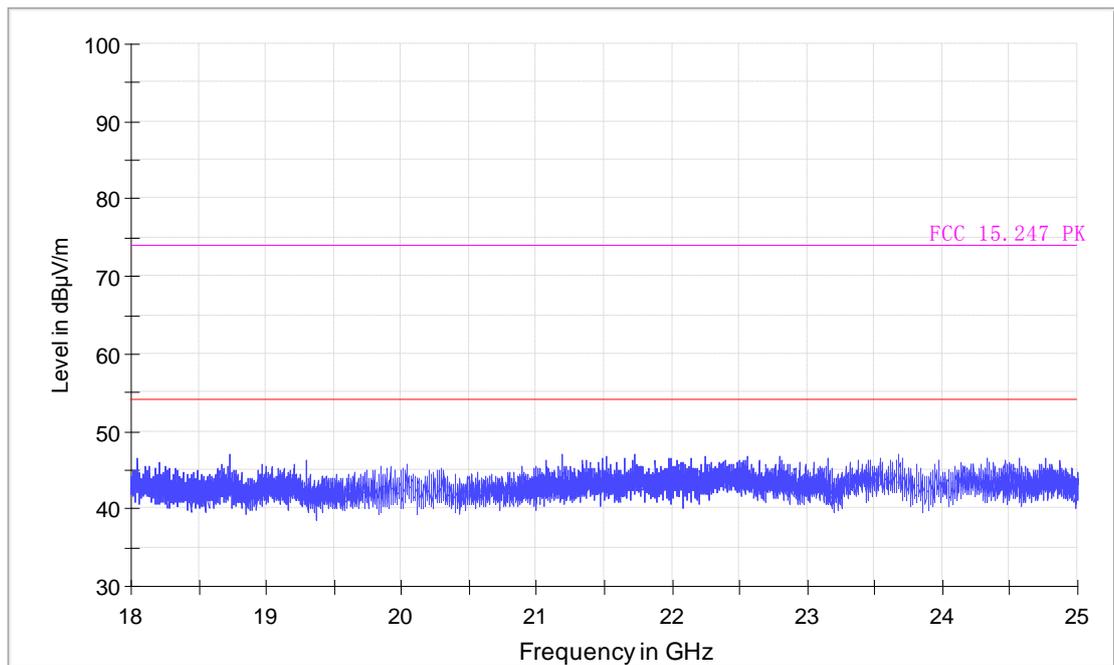
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: 11n-HT20 CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

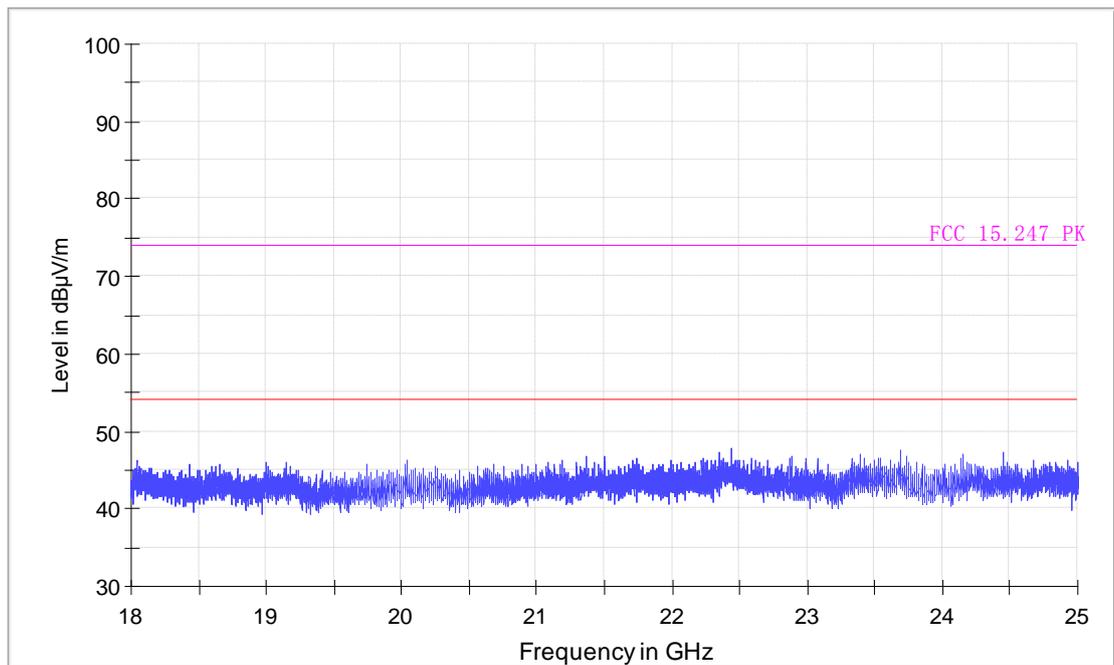
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: 11n-HT40 CH3
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

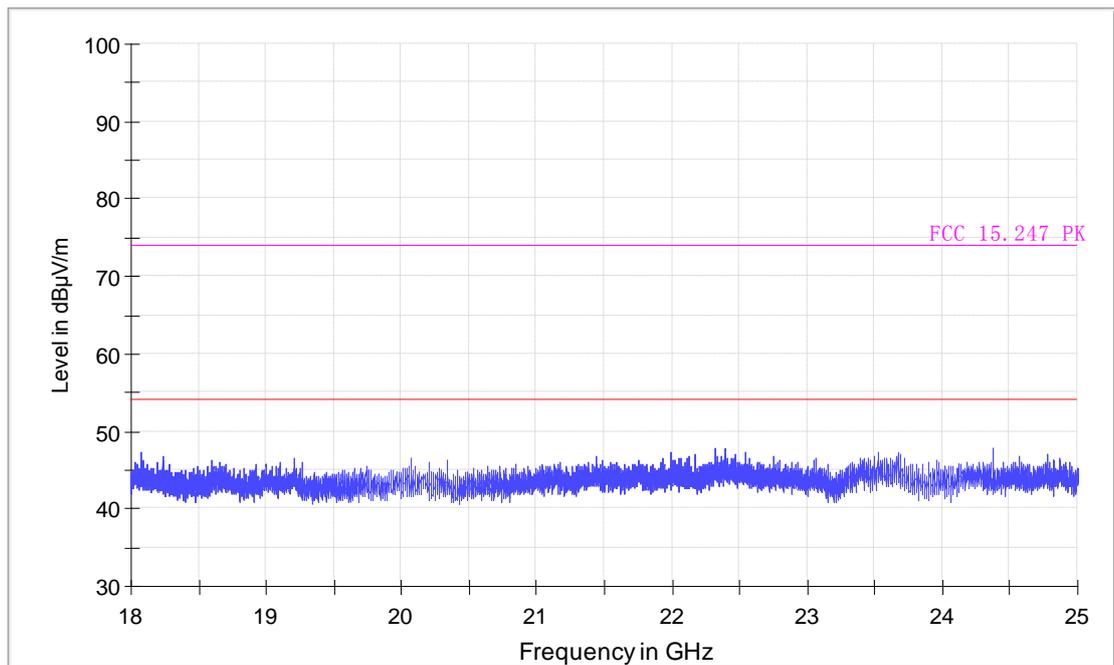
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: 11n-HT40 CH3
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

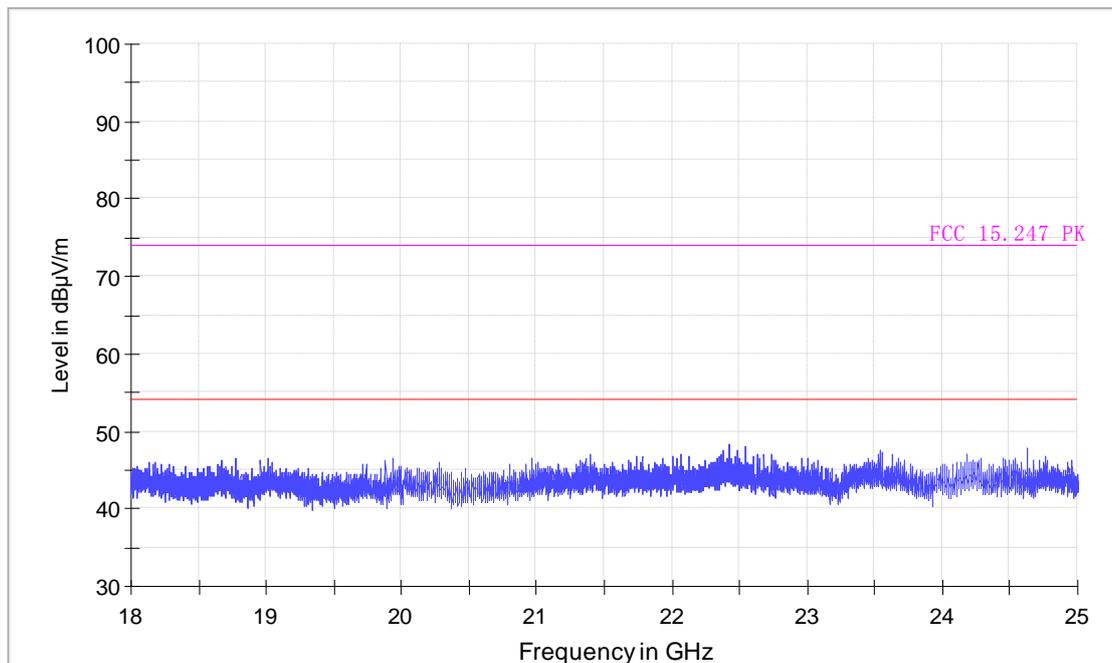
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: 11n-HT40 CH6
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

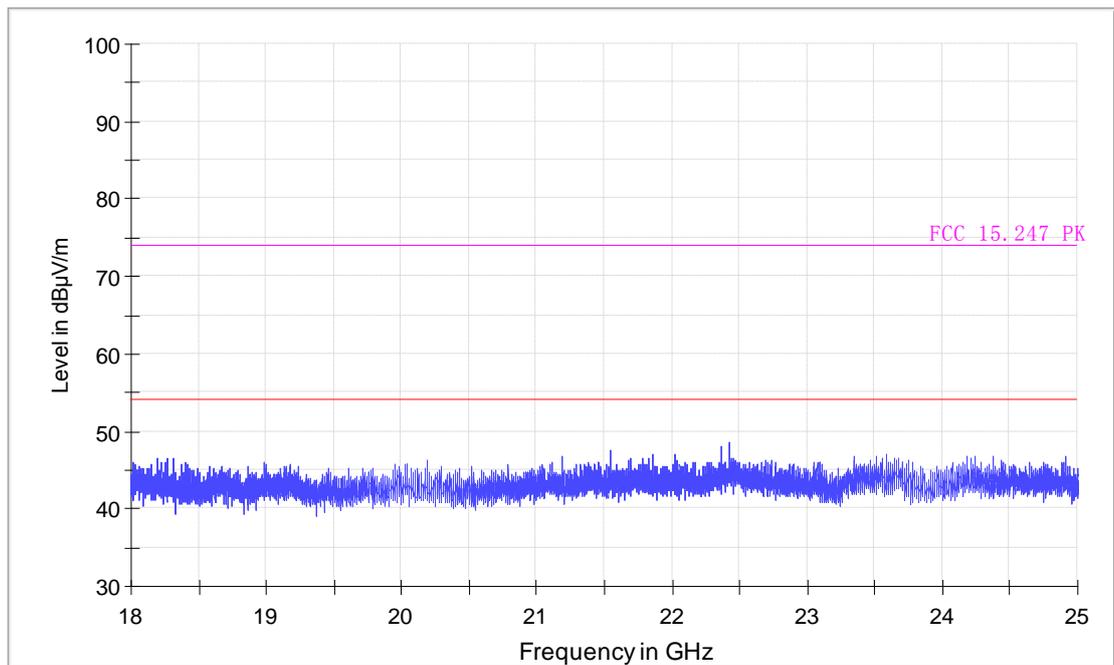
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: 11n-HT40 CH6
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

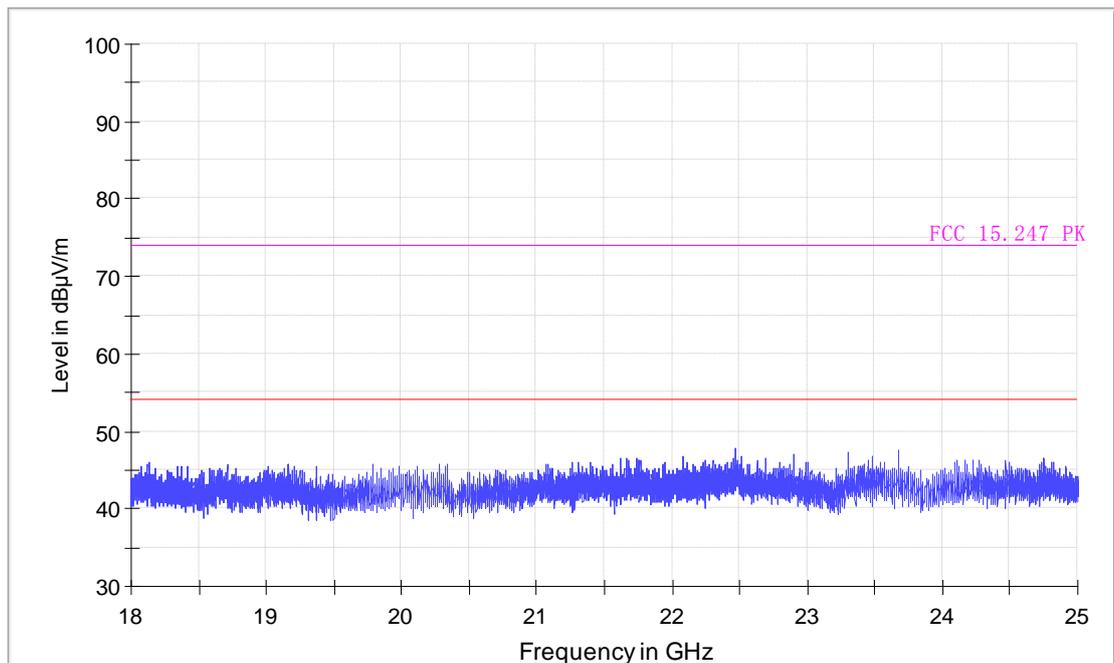
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: 11n-HT40 CH9
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

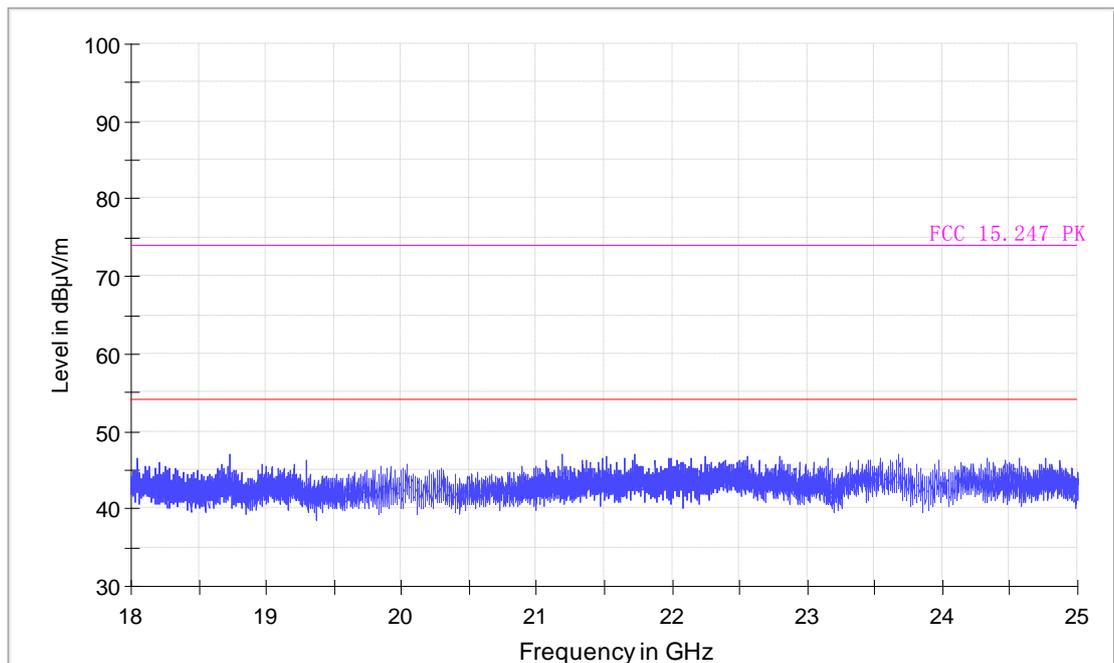
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: 11n-HT40 CH9
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Band edge

11b

CH1

Radiated Emission

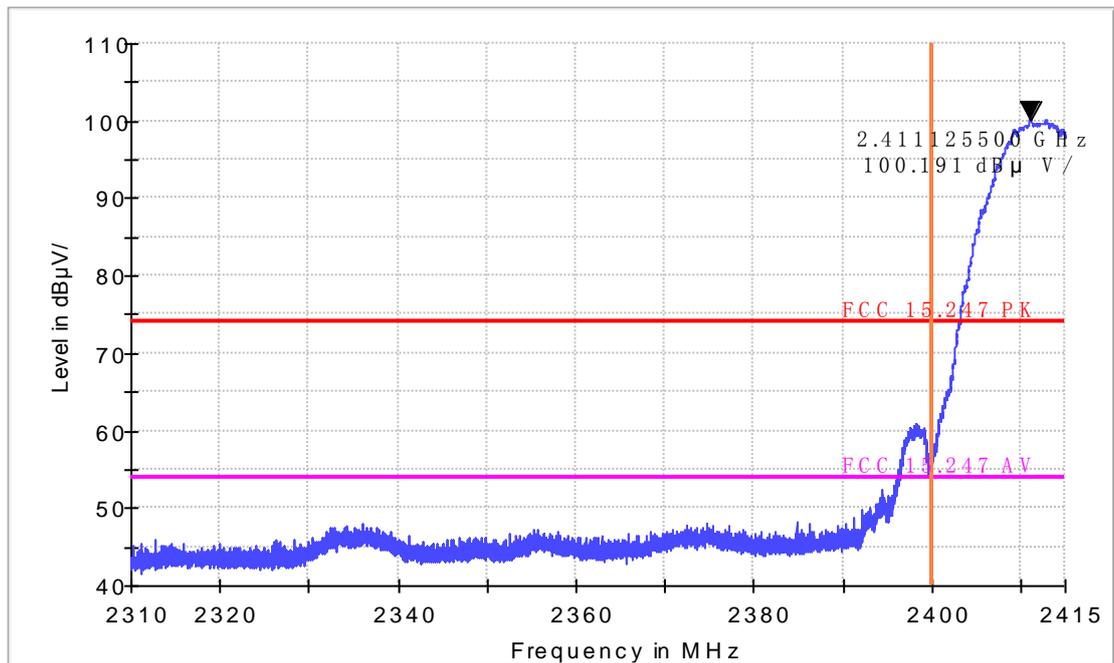
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: Wifi 11b CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-PK



Radiated Emission

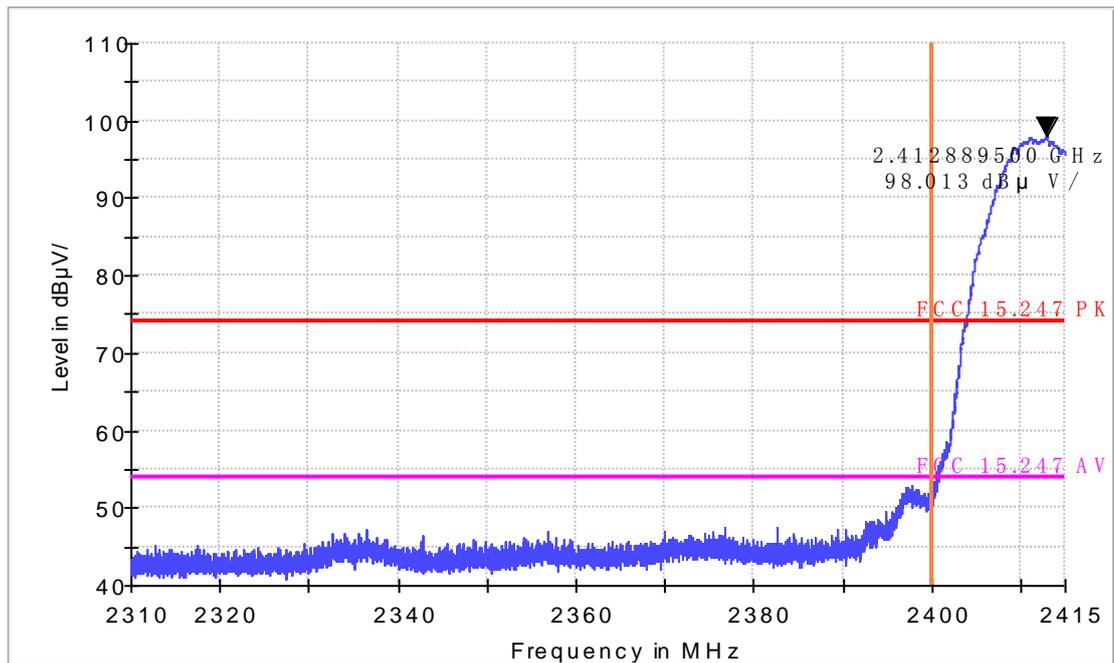
EUT Information

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Operation mode: Wifi 11b CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-PK



Radiated Emission

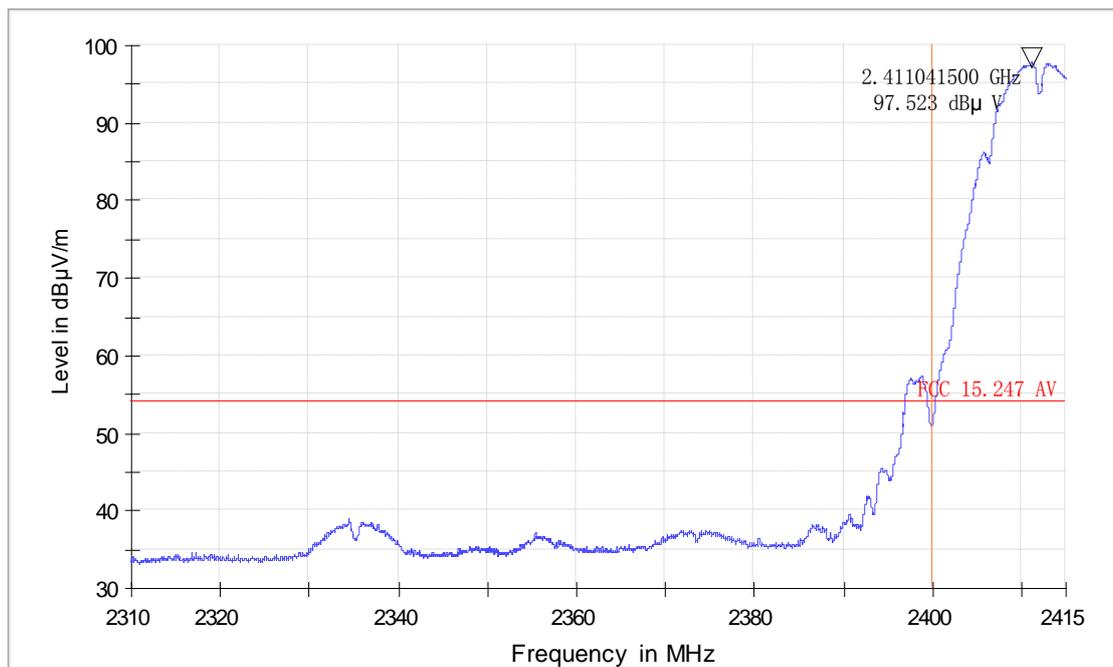
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: Wifi 11b CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-AV



Radiated Emission

EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: Wifi 11b CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-AV



Band edge

11g

CH1

Radiated Emission

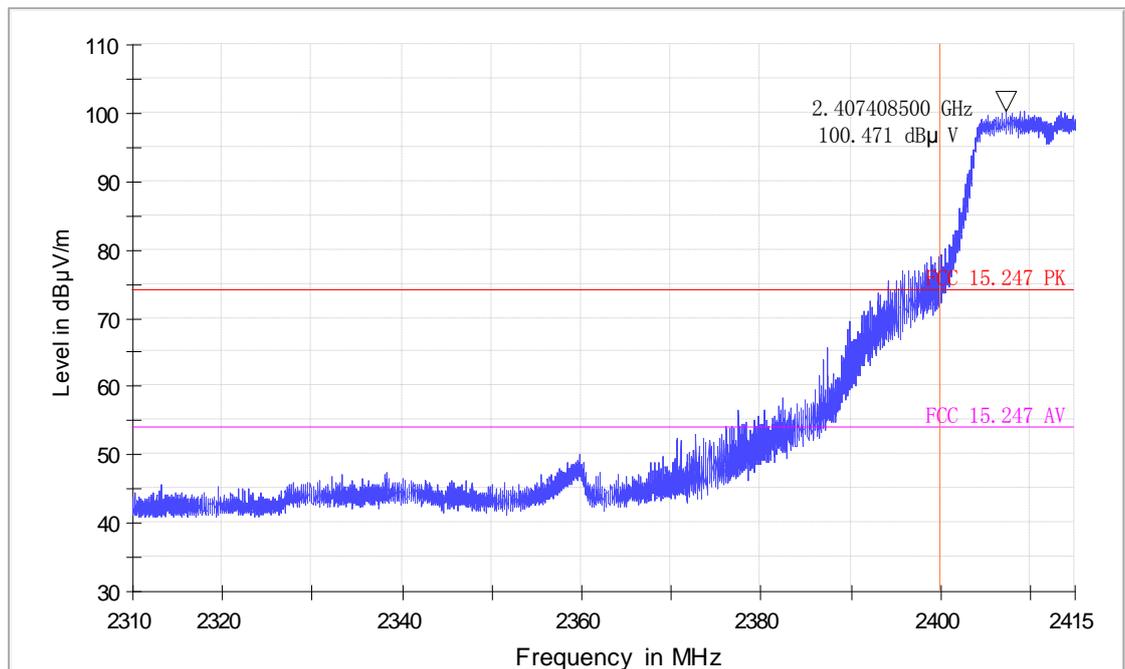
EUT Information

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Operation mode: Wifi 11g CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-PK



Radiated Emission

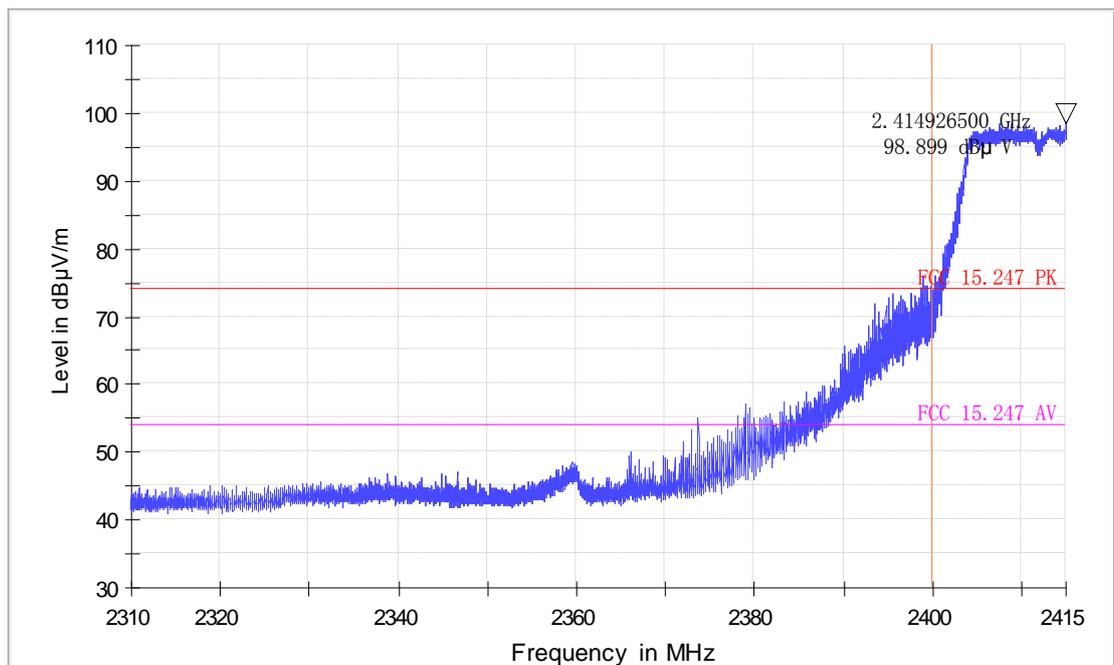
EUT Information

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Operation mode: Wifi 11g CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-PK



Radiated Emission

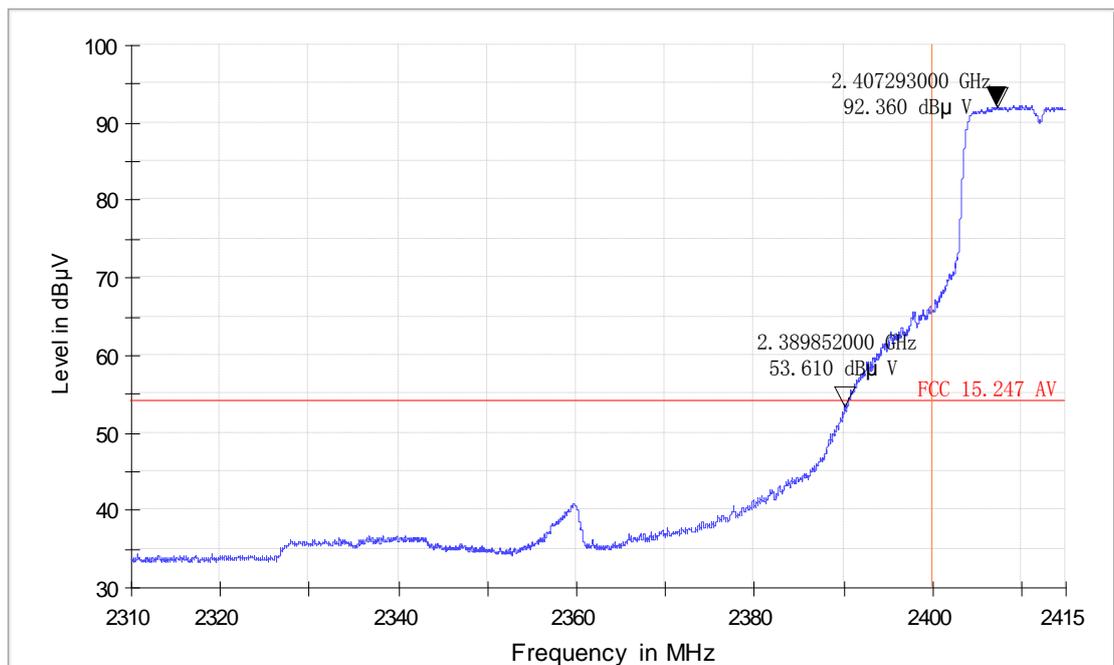
EUT Information

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Operation mode: Wifi 11g CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-AV



Radiated Emission

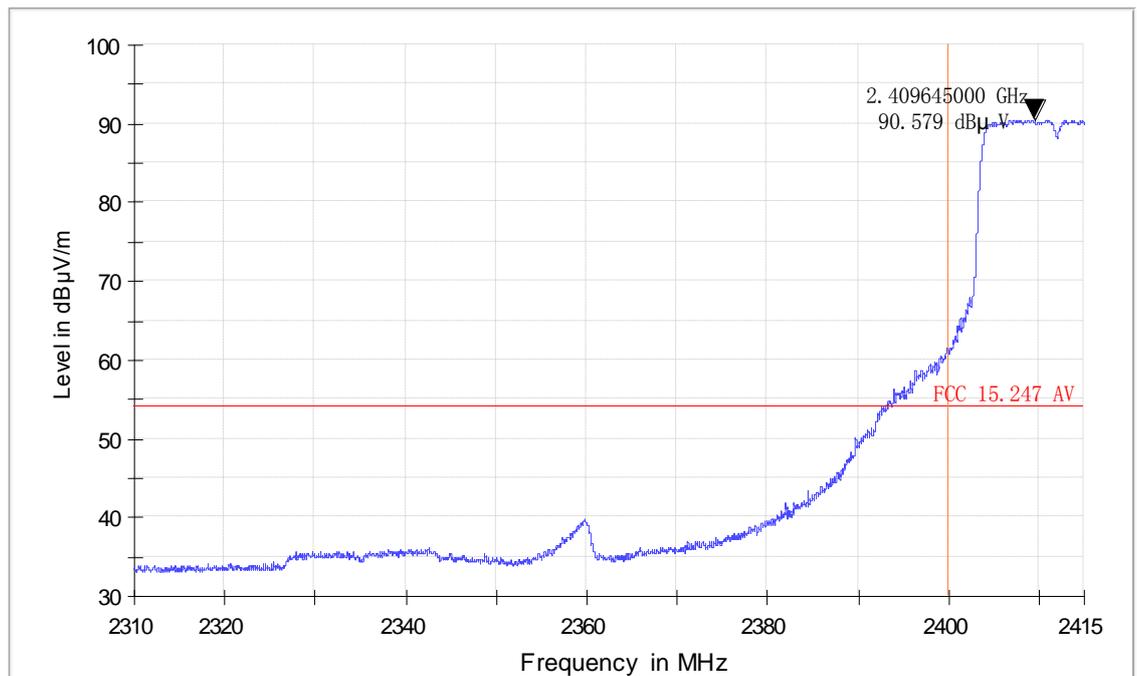
EUT Information

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Operation mode: Wifi 11g CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-AV



Band edge

11n-HT20

CH1

Radiated Emission

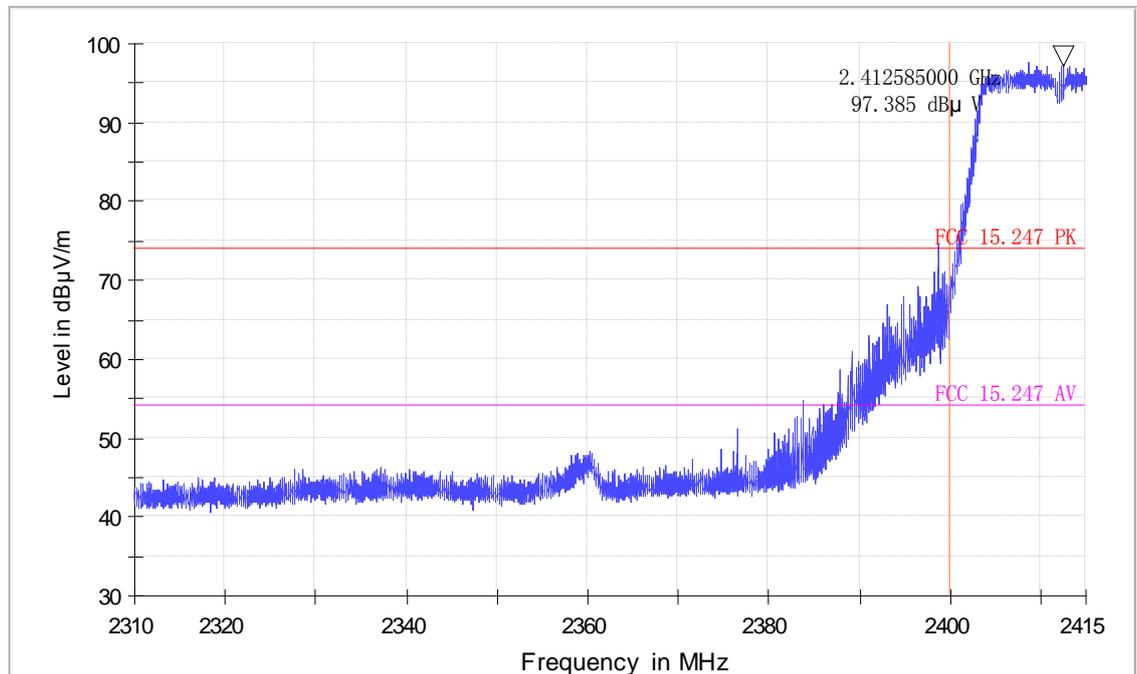
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: Wifi 11n20 CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-PK



Radiated Emission

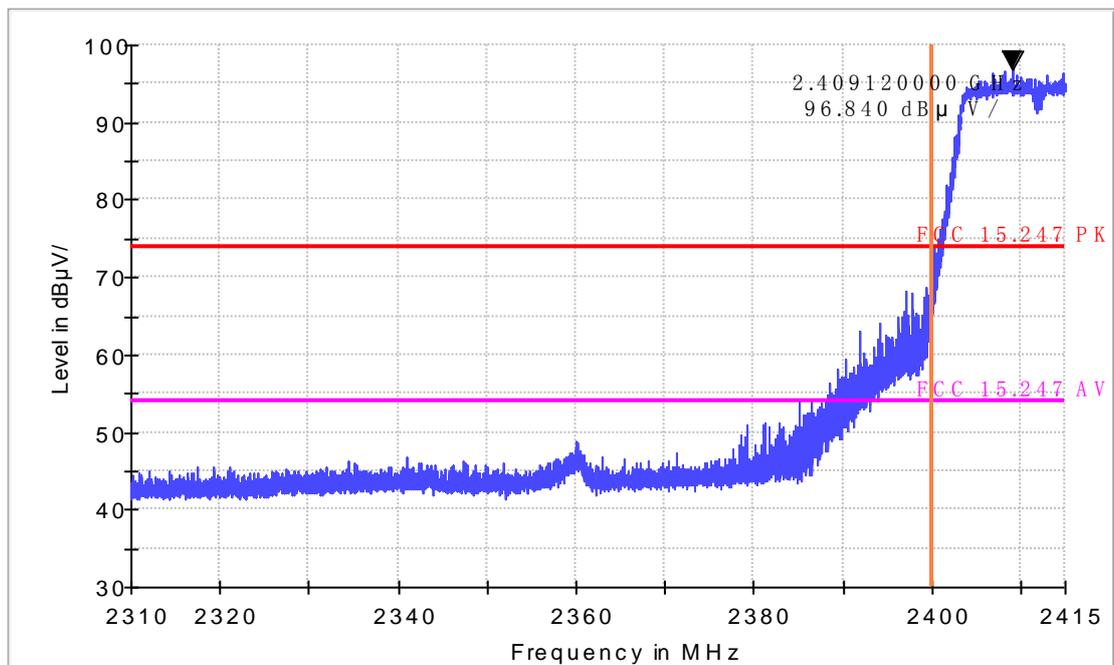
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Operation mode: Wifi 11n20 CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-PK



Radiated Emission

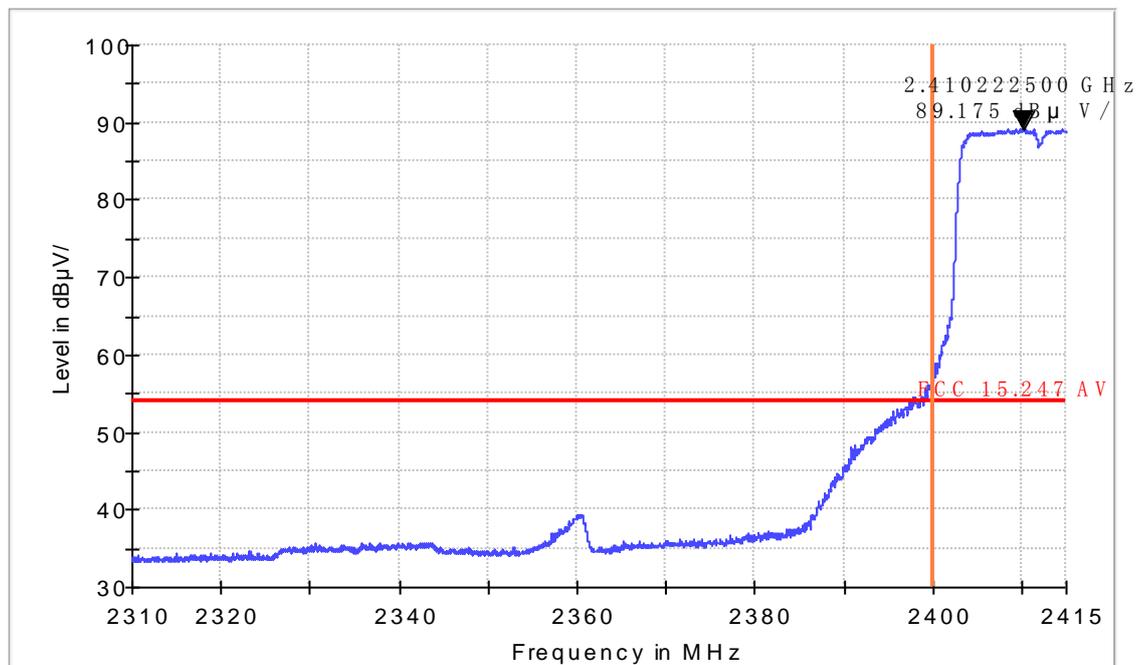
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: Wifi 11n20 CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-AV



Radiated Emission

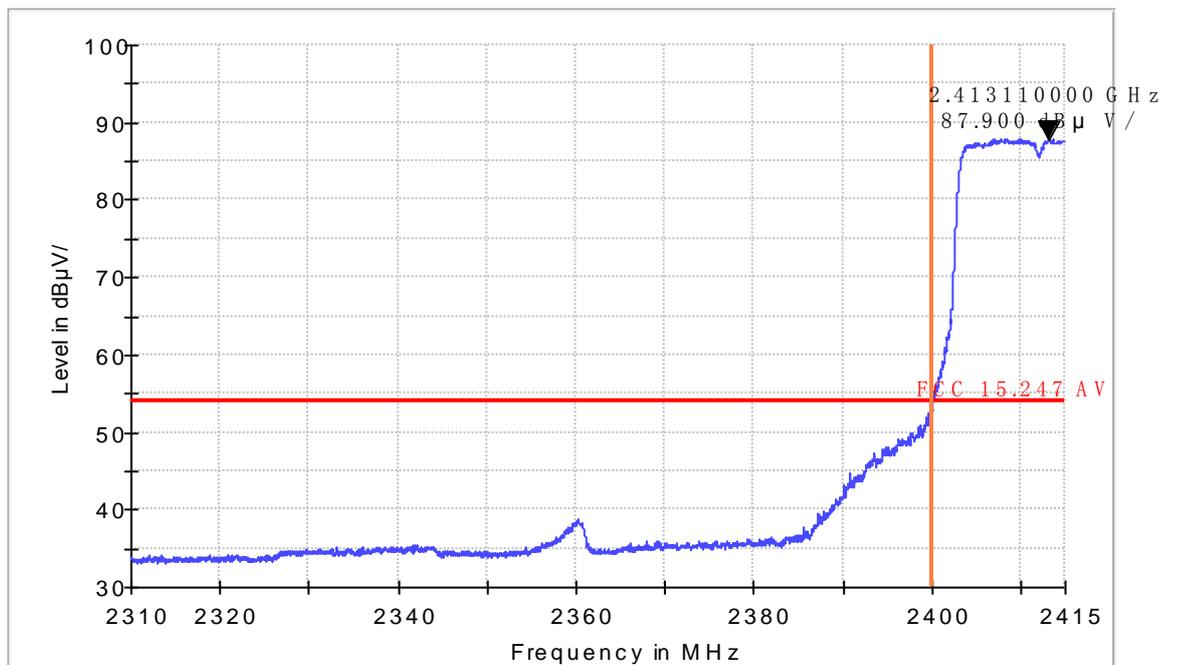
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: Wifi 11n20 CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-AV



Band edge
11n-HT40
CH3

Radiated Emission

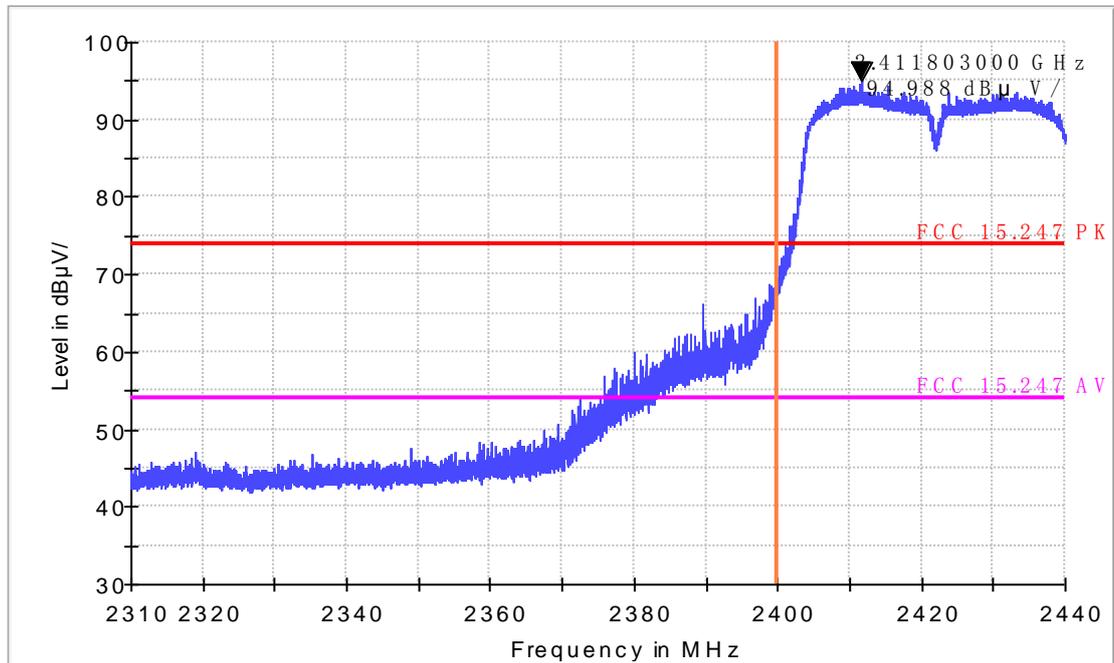
EUT Information

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Operation mode: Wifi 11n40 CH3
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-PK



Radiated Emission

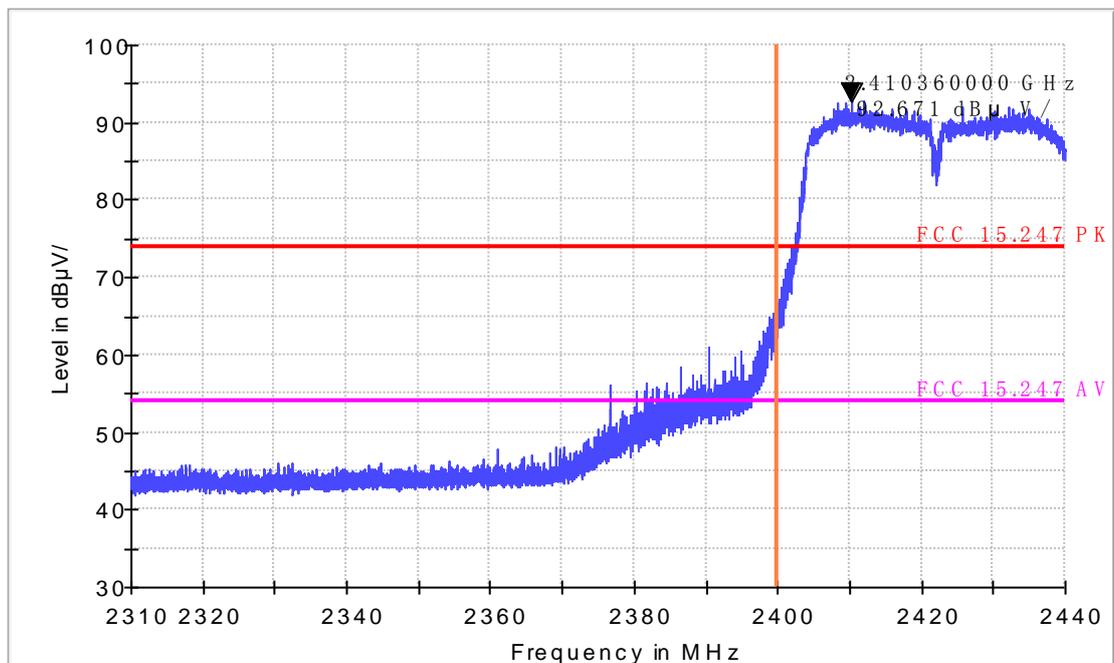
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Operation mode: Wifi 11n40 CH3
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-PK



Radiated Emission

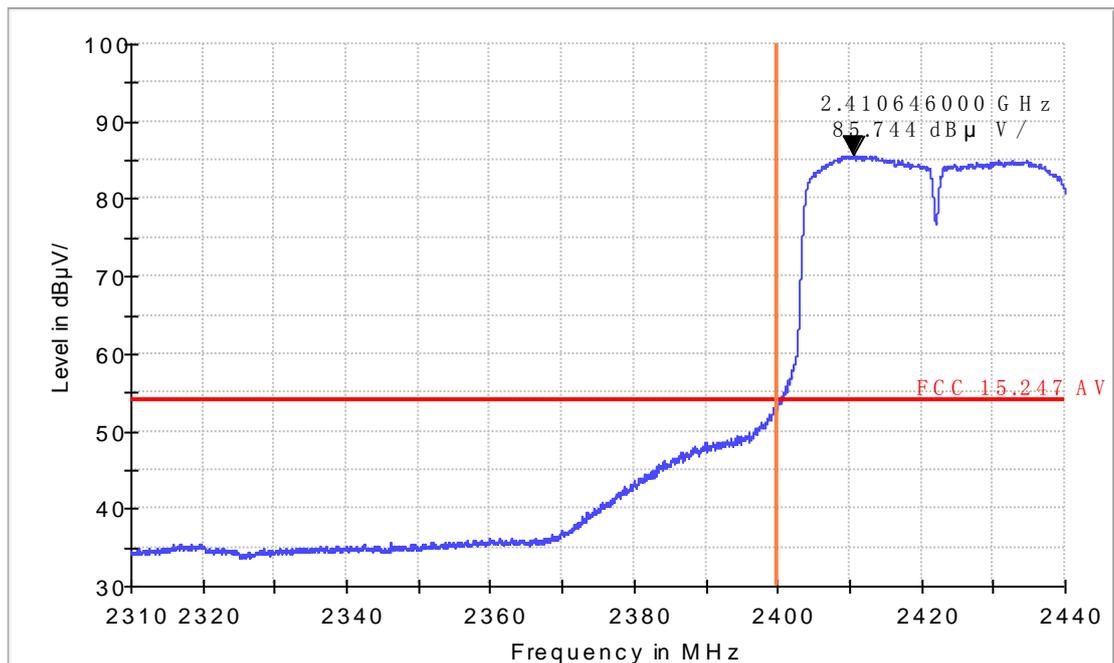
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: Wifi 11n40 CH3
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-AV



Radiated Emission

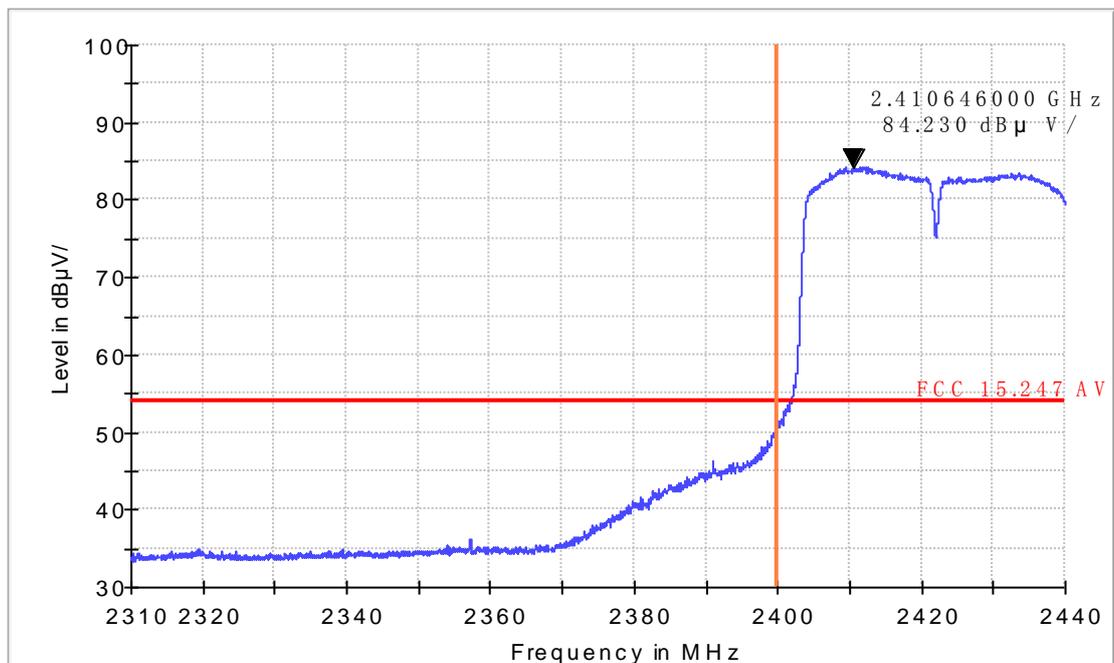
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: Wifi 11n40 CH3
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-AV



Band edge

11b

CH11

Radiated Emission

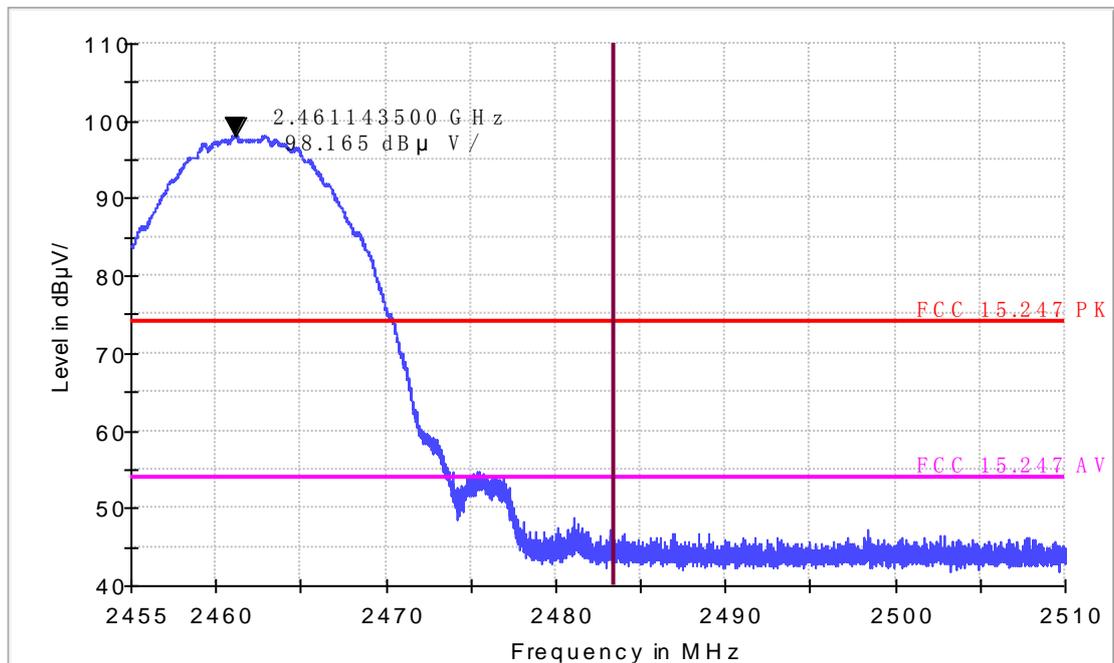
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: Wifi 11b CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-PK



Radiated Emission

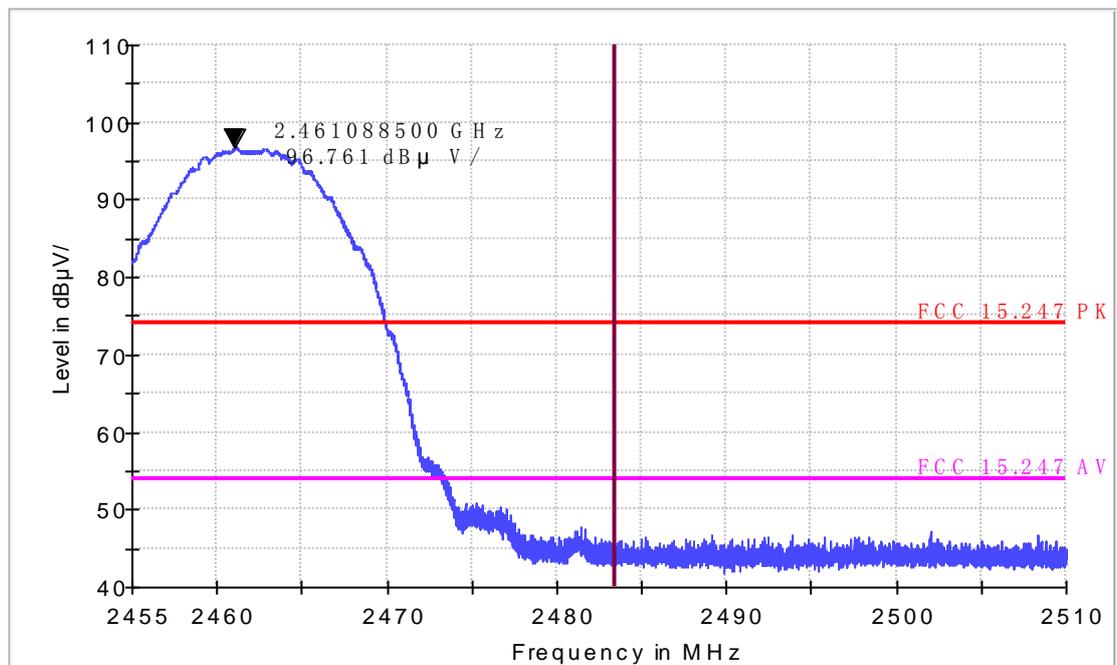
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Operation mode: Wifi 11b CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-PK



Radiated Emission

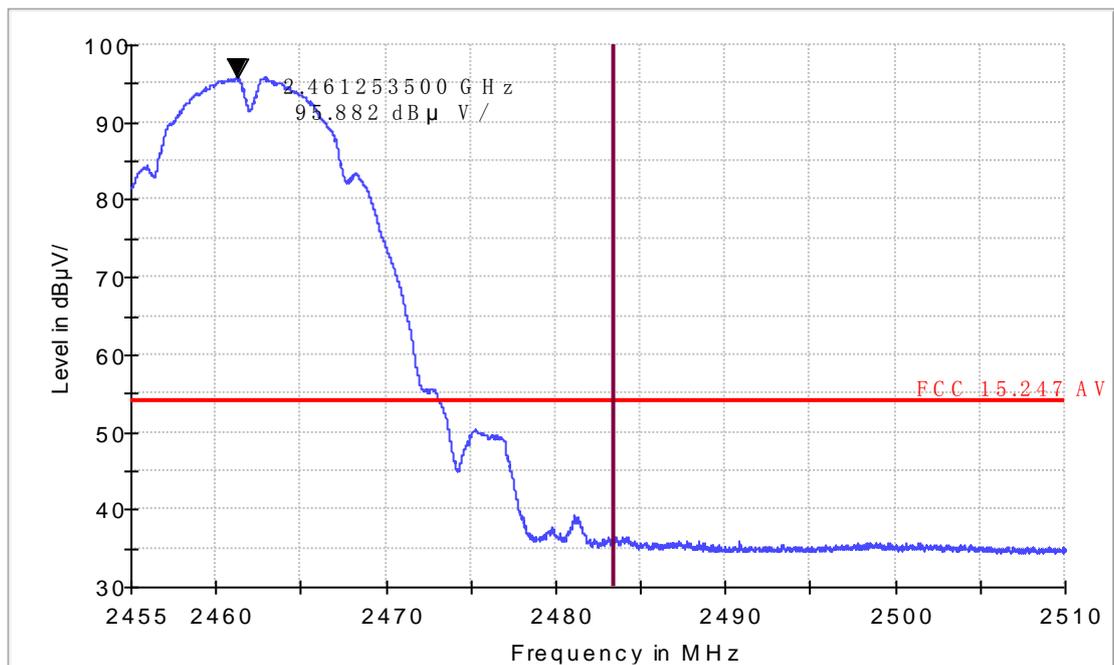
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EUT Model Name: HUAWEI Y560-U03
Operation mode: Wifi 11b CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-AV



Radiated Emission

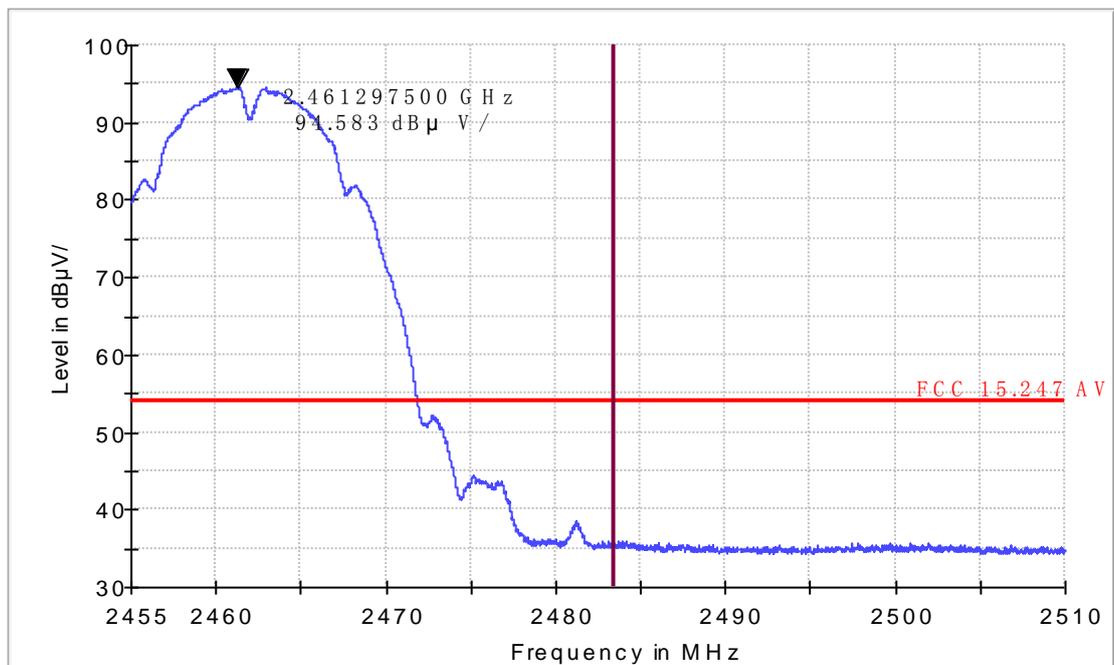
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Operation mode: Wifi 11b CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-AV



Band edge

11g

CH11

Radiated Emission

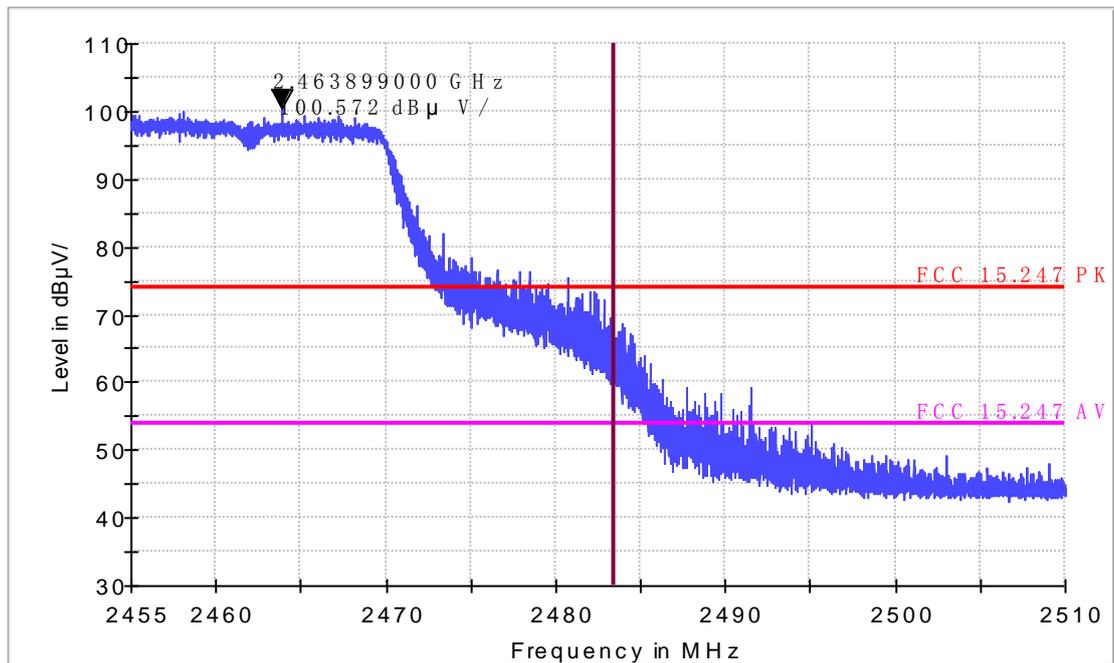
EUT Information

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Operation mode: Wifi 11g CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-PK



Radiated Emission

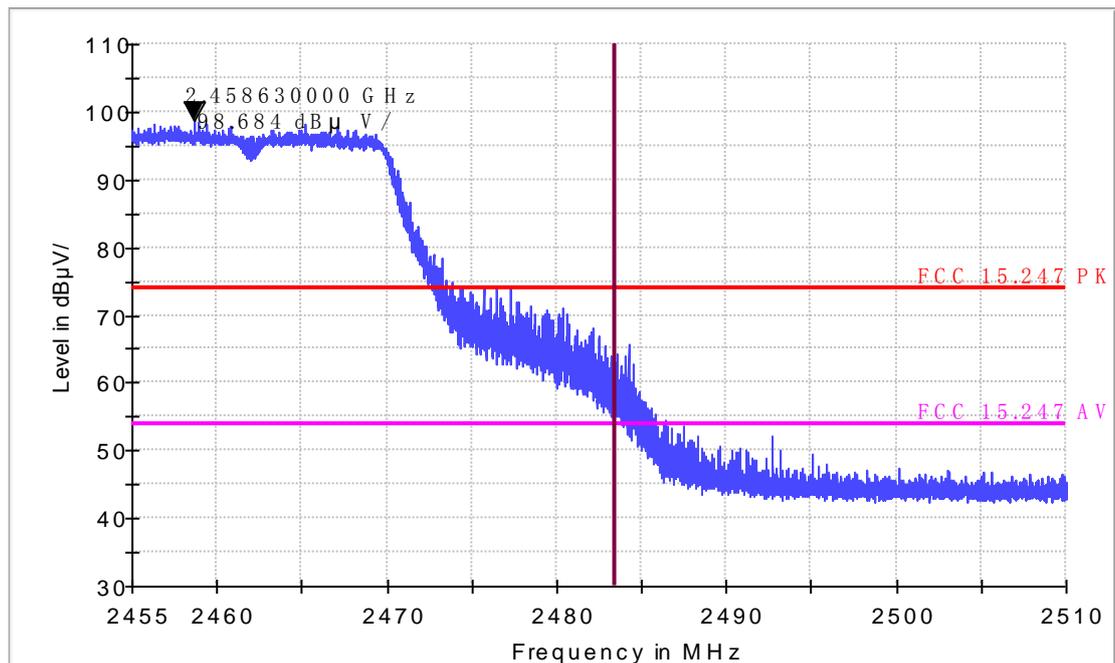
EUT Information

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Operation mode: Wifi 11a CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-PK



Radiated Emission

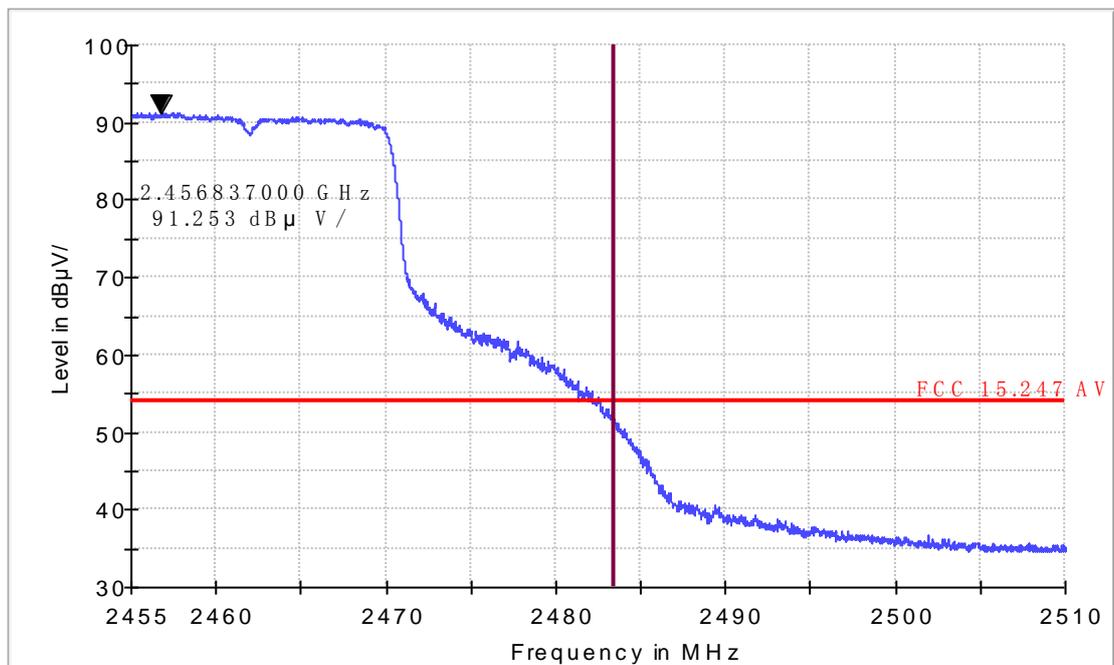
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: Wifi 11g CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-AV



Radiated Emission

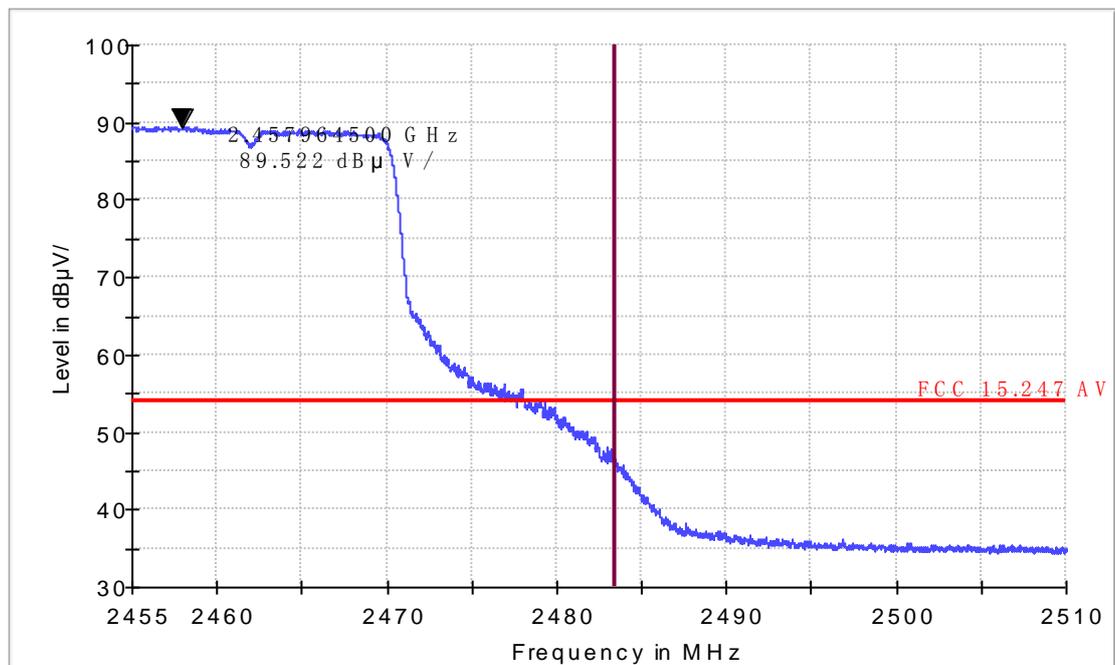
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: Wifi 11g CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-AV



Band edge

11n-HT20

CH11

Radiated Emission

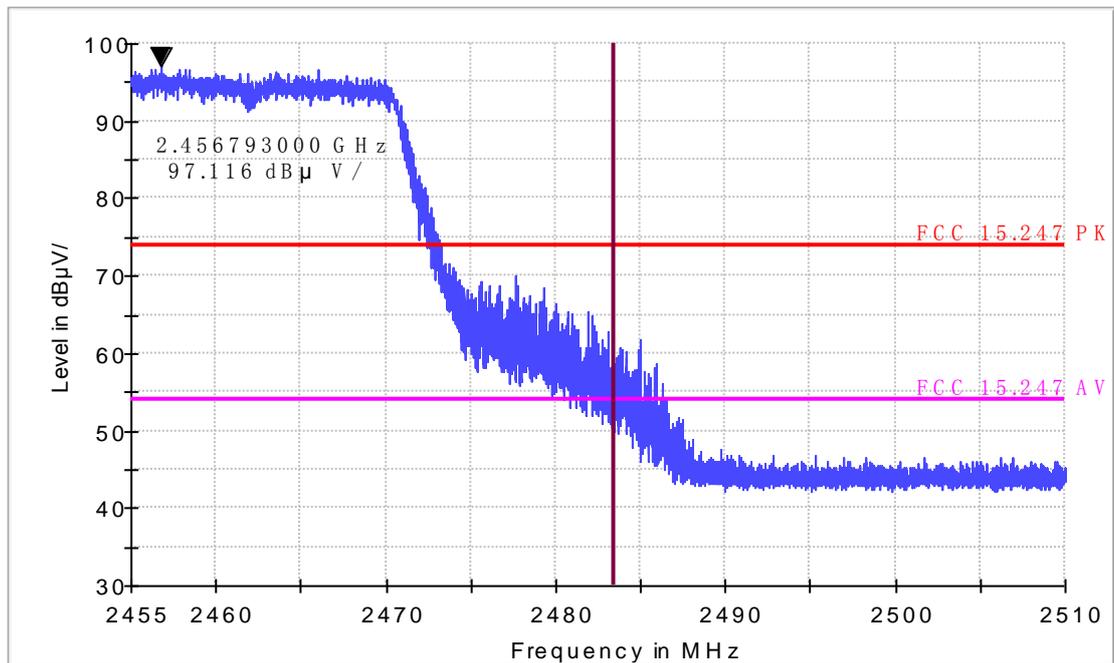
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: Wifi 11n20 CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-PK



Radiated Emission

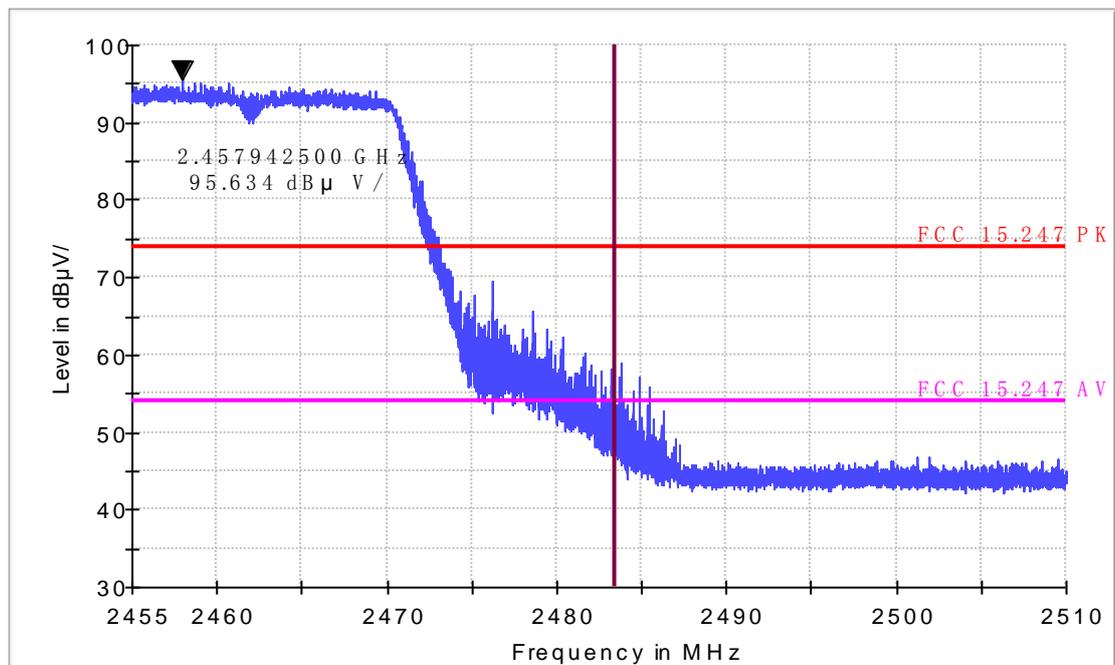
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: Wifi 11n20 CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-PK



Radiated Emission

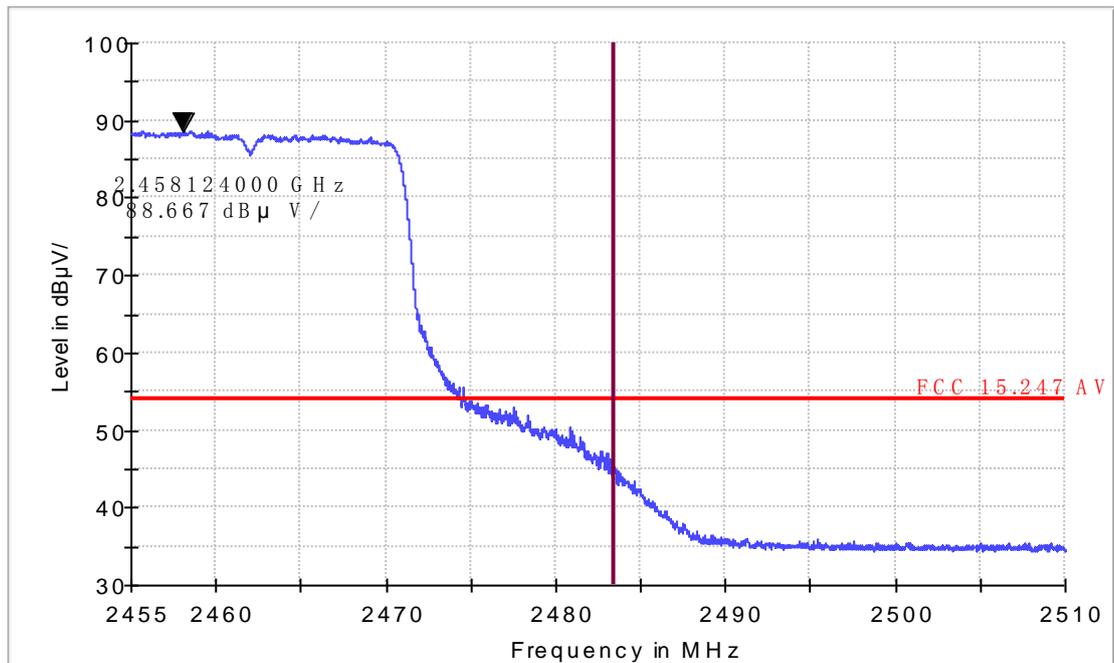
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: Wifi 11n20 CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-AV



Radiated Emission

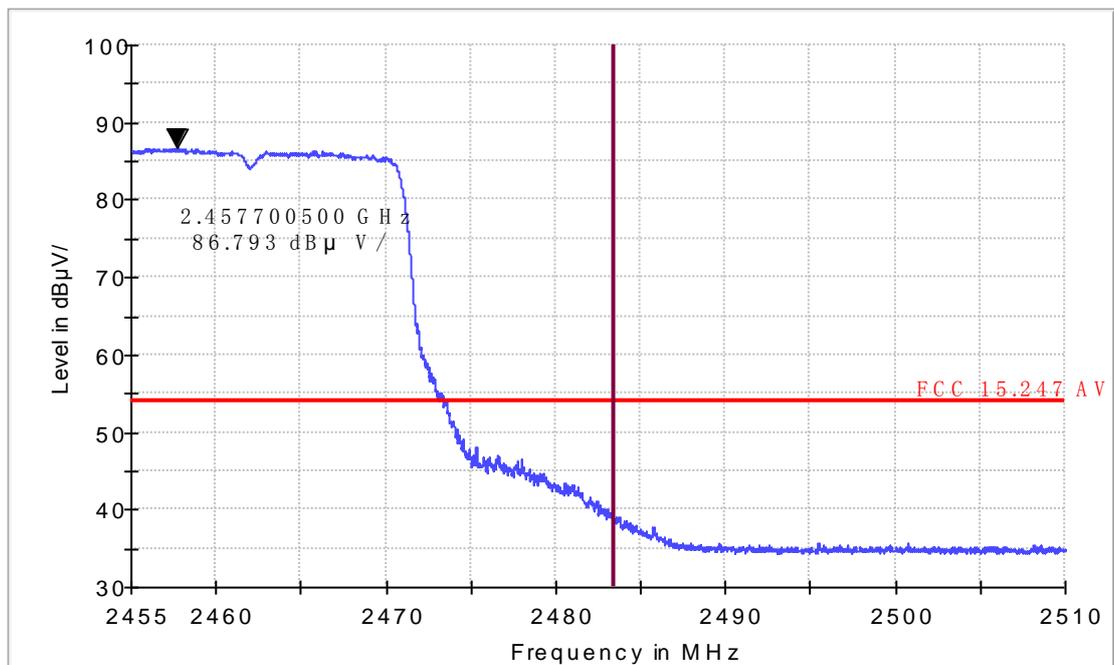
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: Wifi 11n20 CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-AV



Band edge

11n-HT40

CH9

Radiated Emission

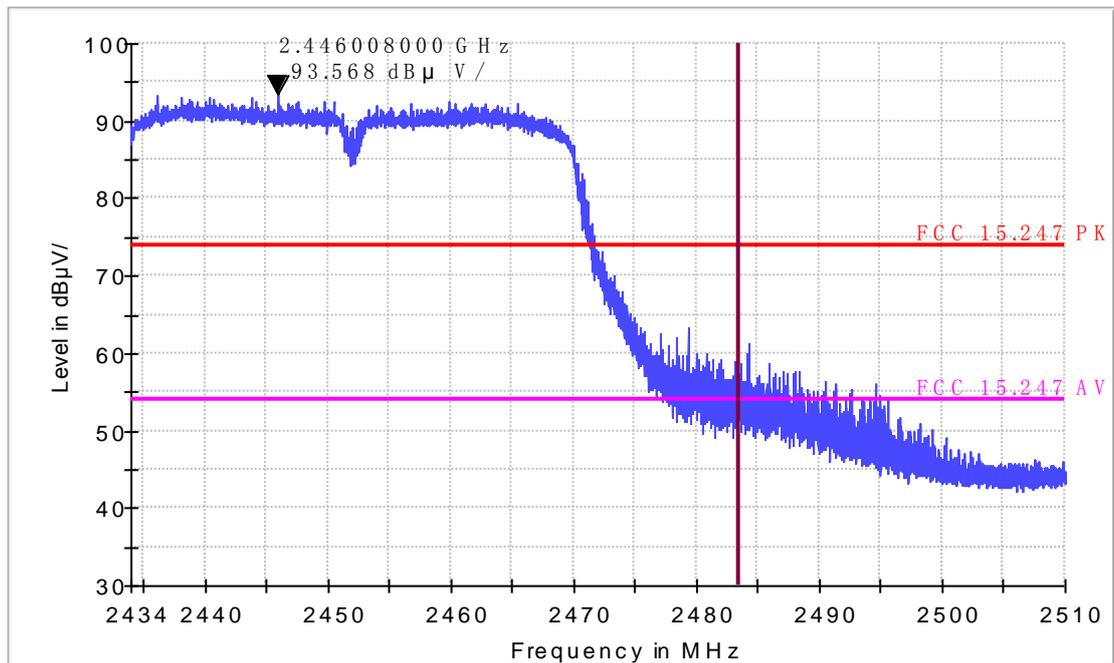
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: Wifi 11n40 CH9
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-PK



Radiated Emission

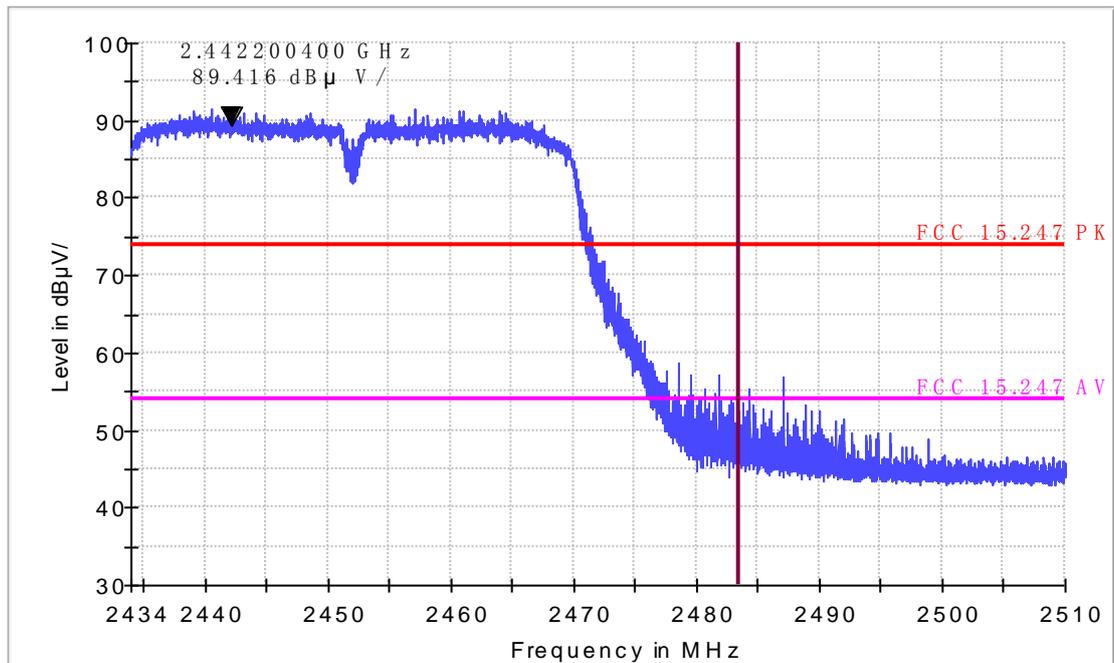
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: Wifi 11n40 CH9
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-PK



Radiated Emission

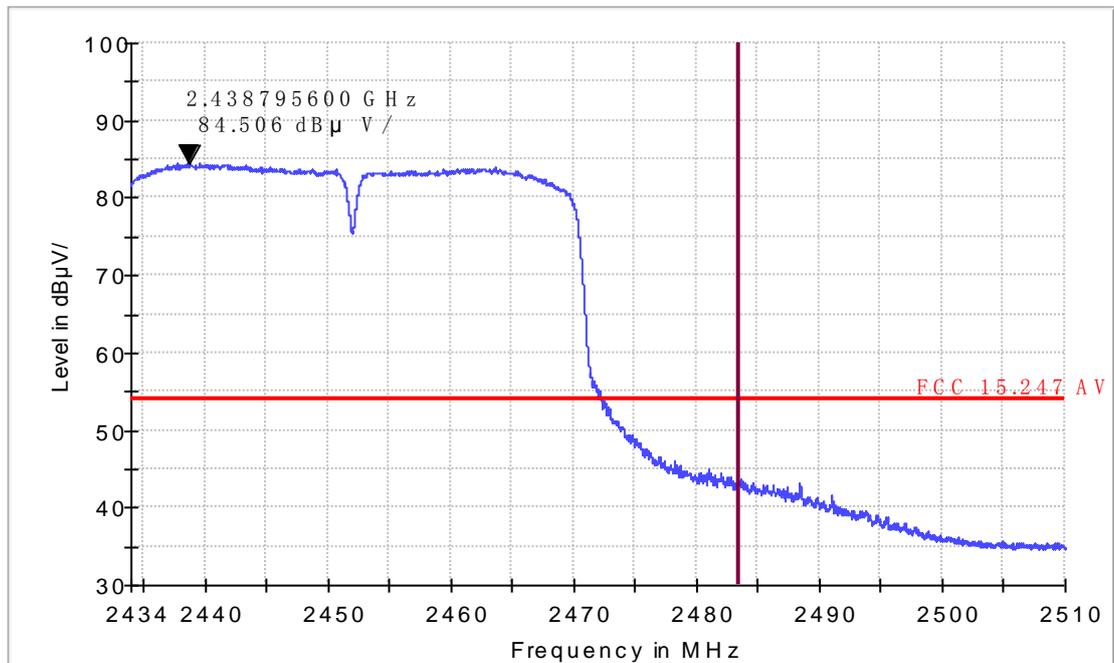
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: Wifi 11n40 CH9
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-AV



Radiated Emission

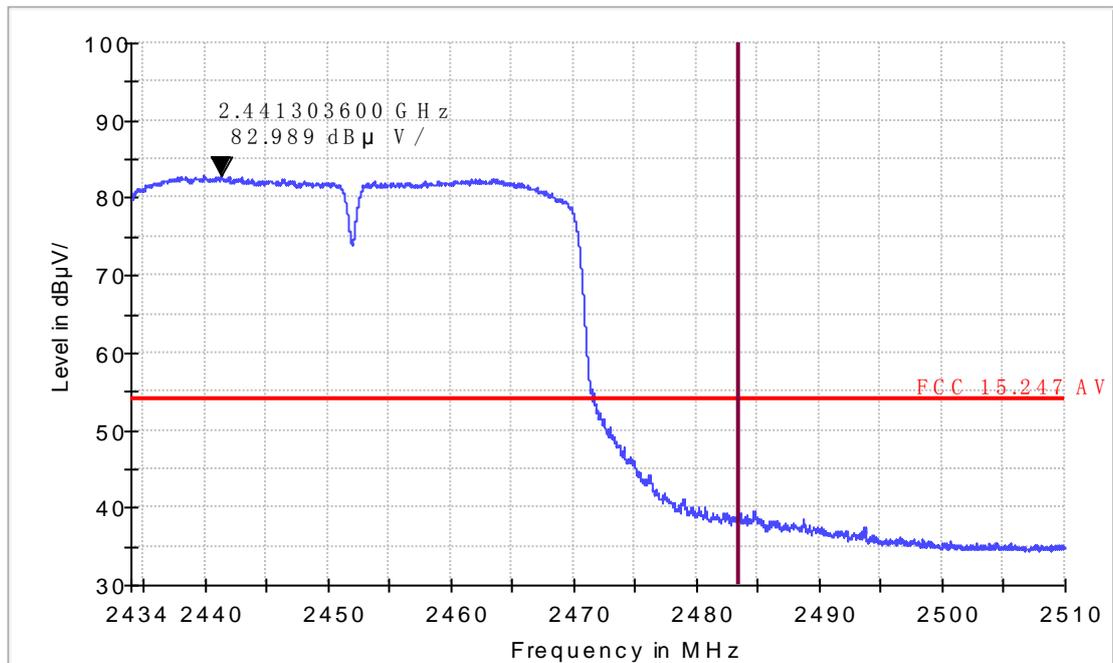
EUT Information

EUT Model Name: HUAWEI Y560-U03
Operation mode: Wifi 11n40 CH9
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-AV



10. CONDUCTED EMISSION TEST FOR AC POWER PORT MEASUREMENT

10.1. Test Standard and Limit

10.1.1. Test Standard

FCC Part 15 15.207

10.1.2. Test Limit

Table 18 Conducted Disturbance Test Limit

| Frequency | Maximum RF Line Voltage (dB μ V) | |
|---------------|--------------------------------------|---------------|
| | Quasi-peak Level | Average Level |
| 150kHz~500kHz | 66 ~ 56 * | 56 ~ 46 * |
| 500kHz~5MHz | 56 | 46 |
| 5MHz~30MHz | 60 | 50 |

* Decreasing linearly with logarithm of the frequency

* The lower limit shall apply at the transition frequency.

10.2. Test Procedure

The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI test receiver (R&S Test Receiver ESCS30) is used to test the emissions form both sides of AC line. According to the requirements in Section 7 and 13 of ANSI C63.4-2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode.

The bandwidth of EMI test receiver is set at 9kHz.

10.3. Test Arrangement

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application. The detailed information refers to test picture.

10.4. Test Data

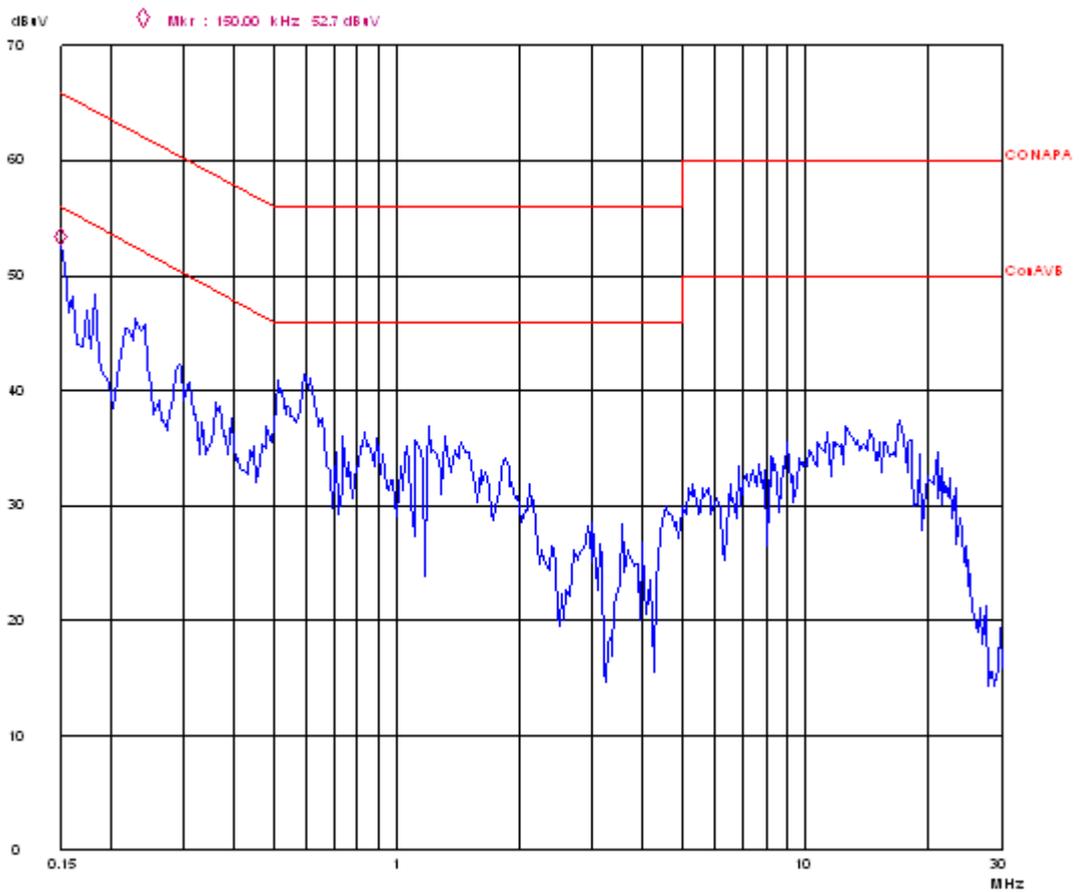
The emissions don't show in below are too low against the limits. Refer to the test curves.

Table 19 Conducted Disturbance Test Data

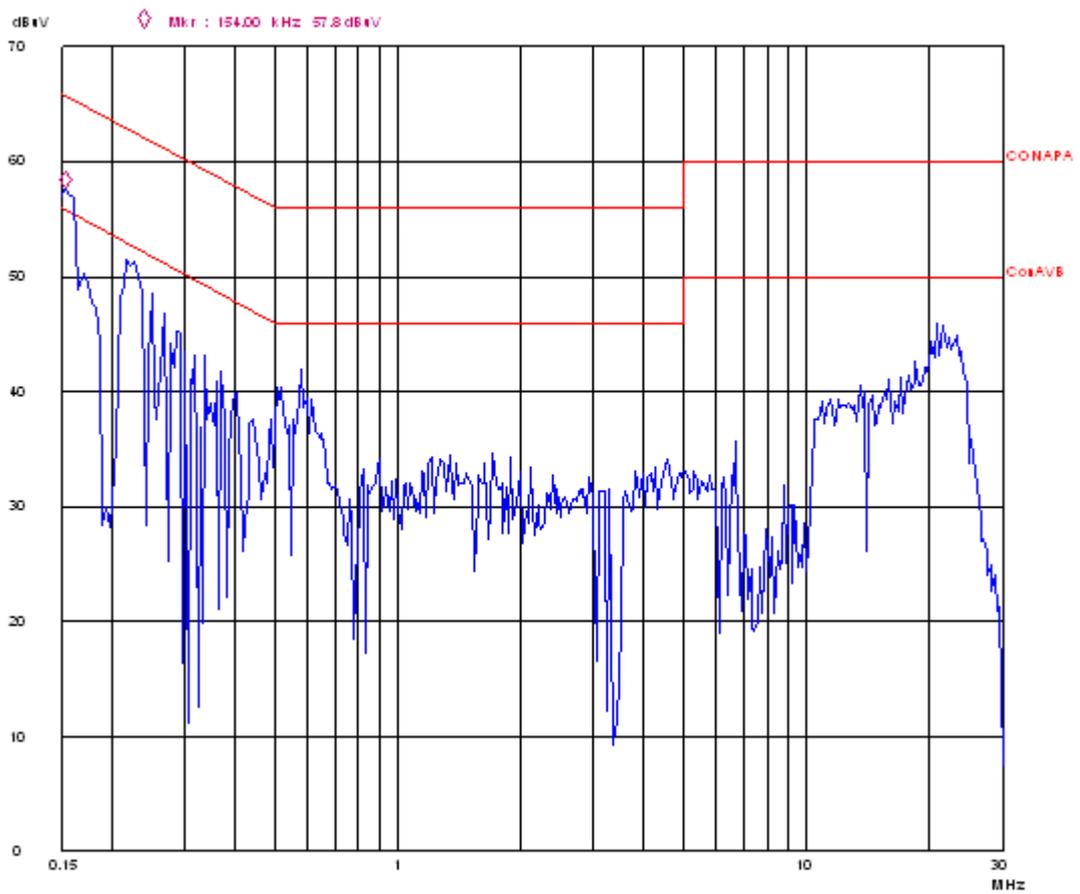
| Model No.: HUAWEI Y560-U03 | | | | | | | | |
|-------------------------------------|-----------------|------------------------|----------------------|-----------------------------|---------------------|----------------------|-----------------------------|---------------------|
| Test mode: Charging and transmitter | | | | | | | | |
| | Frequency (MHz) | Correction Factor (dB) | Quasi-Peak | | | Average | | |
| | | | Reading (dB μ V) | Emission Level (dB μ V) | Limits (dB μ V) | Reading (dB μ V) | Emission Level (dB μ V) | Limits (dB μ V) |
| Line | 0.150 | 9.7 | 40.9 | 50.6 | 66 | 26.4 | 36.1 | 56 |
| | 0.182 | 9.7 | 29.0 | 38.7 | 64.4 | 13.1 | 22.8 | 54.4 |
| | 0.230 | 9.7 | 28.7 | 38.4 | 62.4 | 13.9 | 23.6 | 52.4 |
| | 0.514 | 9.8 | 28.1 | 37.9 | 56 | 23.2 | 33 | 46 |
| | 0.598 | 9.8 | 29.6 | 39.4 | 56 | 22.8 | 32.6 | 46 |
| | 0.890 | 9.8 | 14.5 | 24.3 | 56 | 5.8 | 15.6 | 46 |
| Neutral | 0.154 | 9.7 | 39.1 | 48.8 | 65.8 | 17.0 | 26.7 | 55.8 |
| | 0.222 | 9.7 | 37.4 | 47.1 | 62.7 | 22.3 | 32 | 52.7 |
| | 0.270 | 9.7 | 25.5 | 35.2 | 61.1 | 11.2 | 20.9 | 51.1 |
| | 0.518 | 9.8 | 25.9 | 35.7 | 56 | 9.4 | 19.2 | 46 |
| | 0.582 | 9.8 | 25.7 | 35.5 | 56 | 6.0 | 15.8 | 46 |
| | 20.796 | 10.2 | 27.3 | 37.5 | 60 | 16.6 | 26.8 | 50 |

- REMARKS: 1. Emission level(dBuV)=Read Value(dBuV) + Correction Factor(dB)
 2. Correction Factor(dB) =LISN Factor (dB) + Cable Factor (dB)+Limiter Factor(dB)
 3. The other emission levels were very low against the limit.

EUT: HUAWEI Y560-U03
Manufacturer:
Operating Condition: Charging and transmitter
Test Site:
Operator:
Test Specification: L
Comment: AC 120V/60Hz



EUT: HUAWEI Y560-U03
Manufacturer:
Operating Condition: Charging and transmitter
Test Site:
Operator:
Test Specification: N
Comment: AC 120V/60Hz



11. ANTENNA REQUIREMENTS

11.1. Applicable requirements

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. 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 FCC rule.

11.2. Antenna Connector

Antenna Connector is on the PCB within enclosure and not accessible to user.

11.3. Antenna Gain

The antenna gain of EUT is less than 6 dBi.