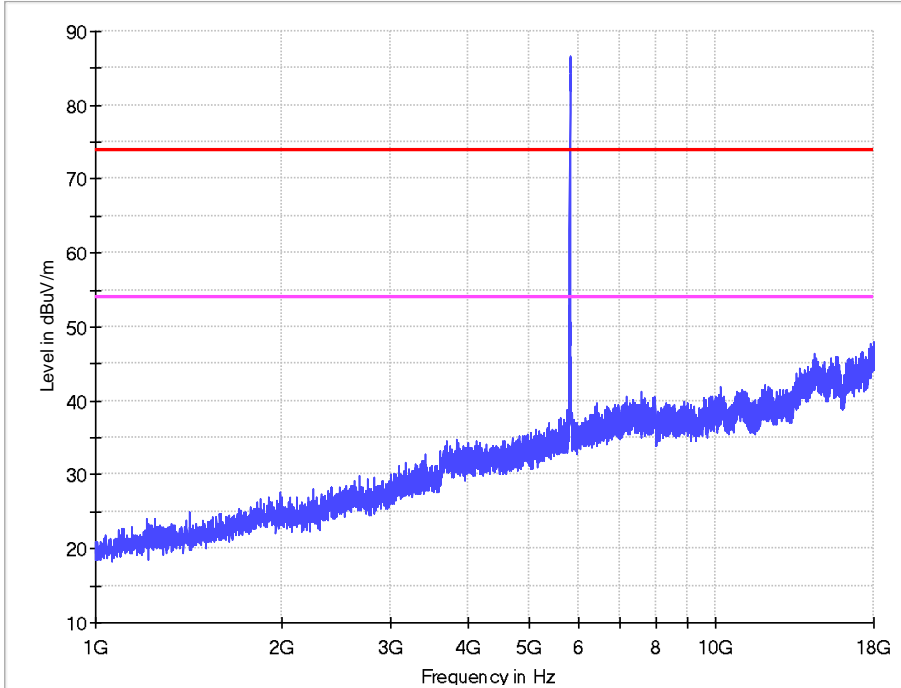


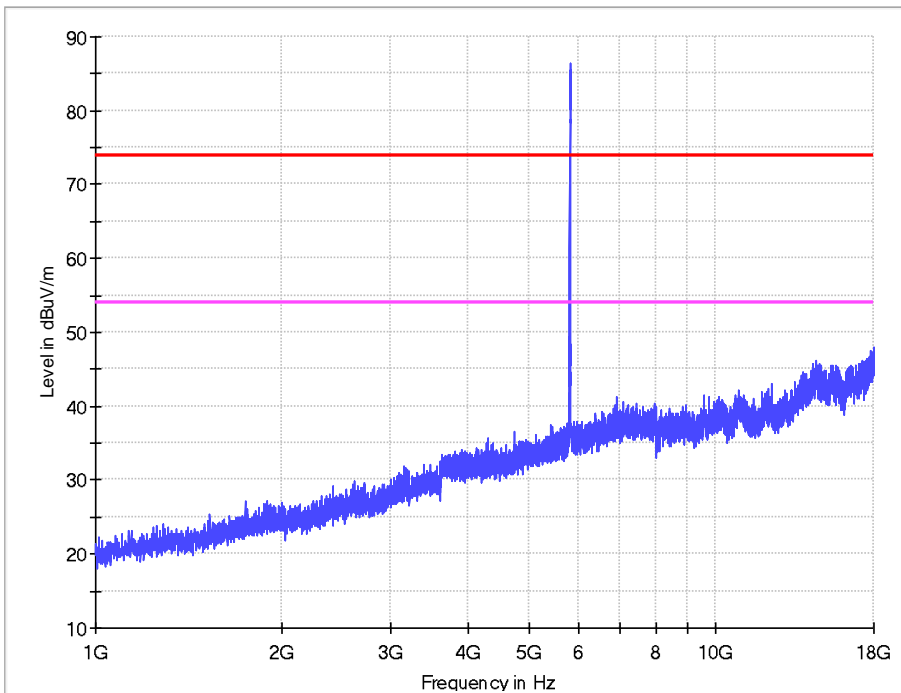
1-18G

11n HT20 IN THE 5.8GHz BAND  
CH165

Horizontal



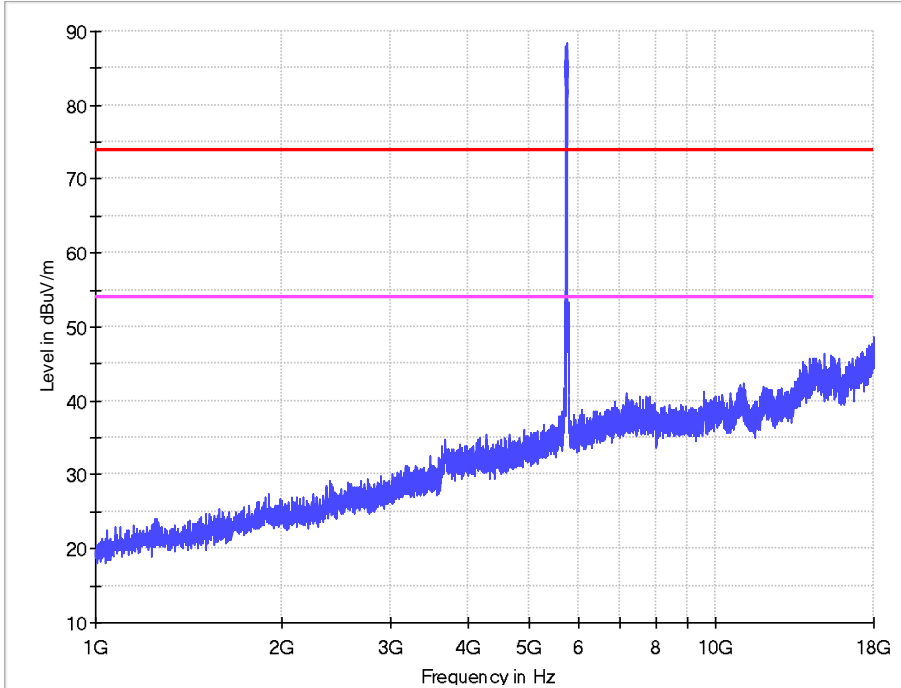
Vertical



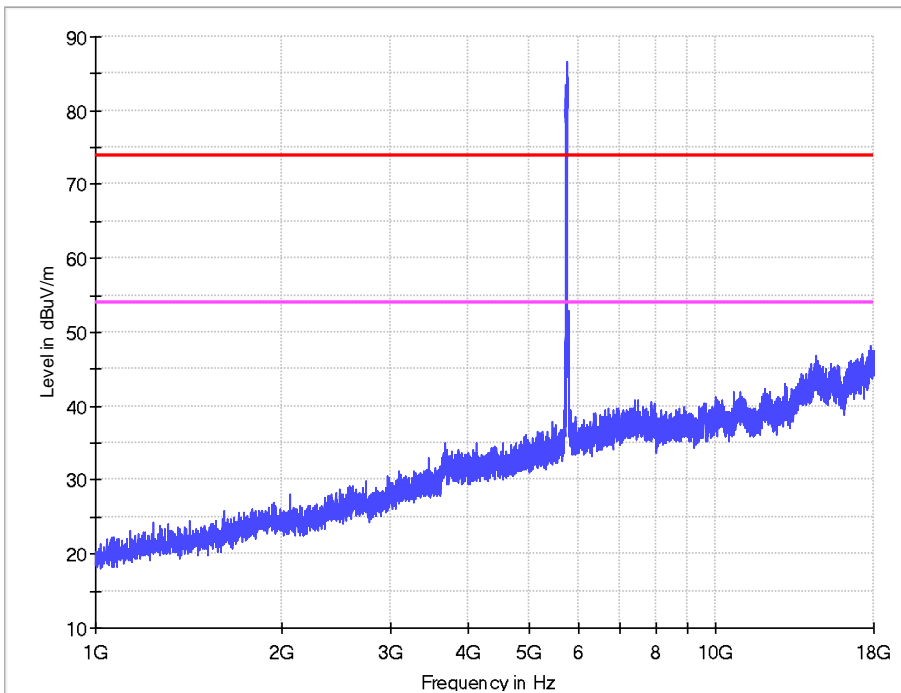
1-18G

11n HT40 IN THE 5.8GHz BAND  
CH151

Horizontal



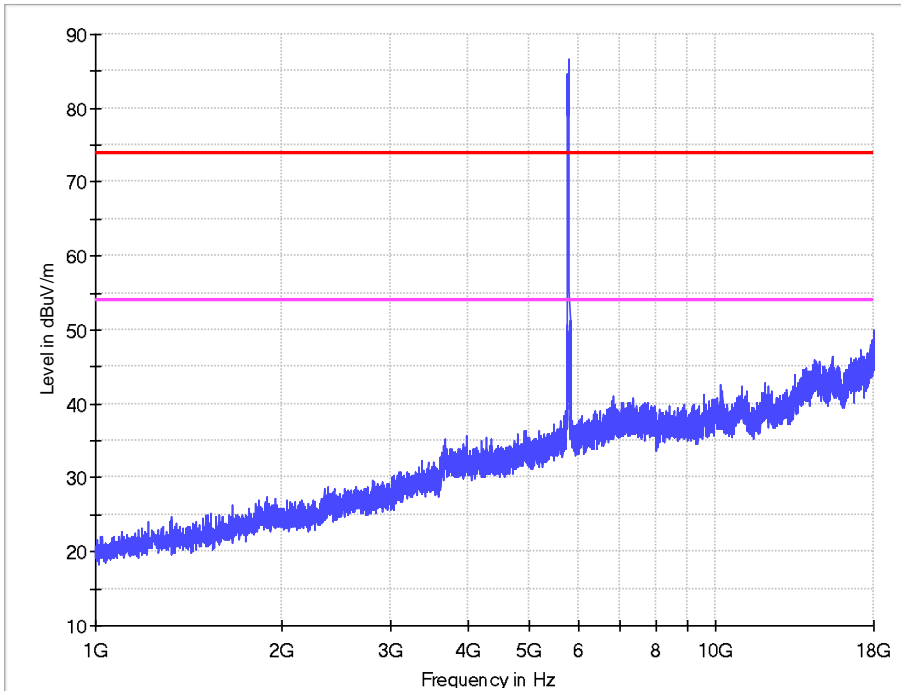
Vertical



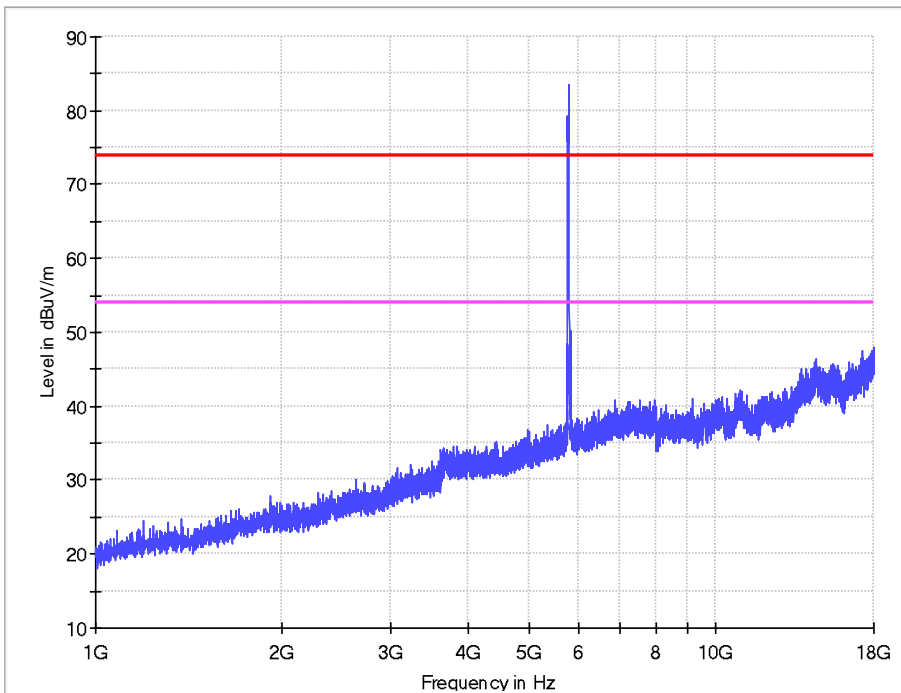
1-18G

11n HT40 IN THE 5.8GHz BAND  
CH159

Horizontal

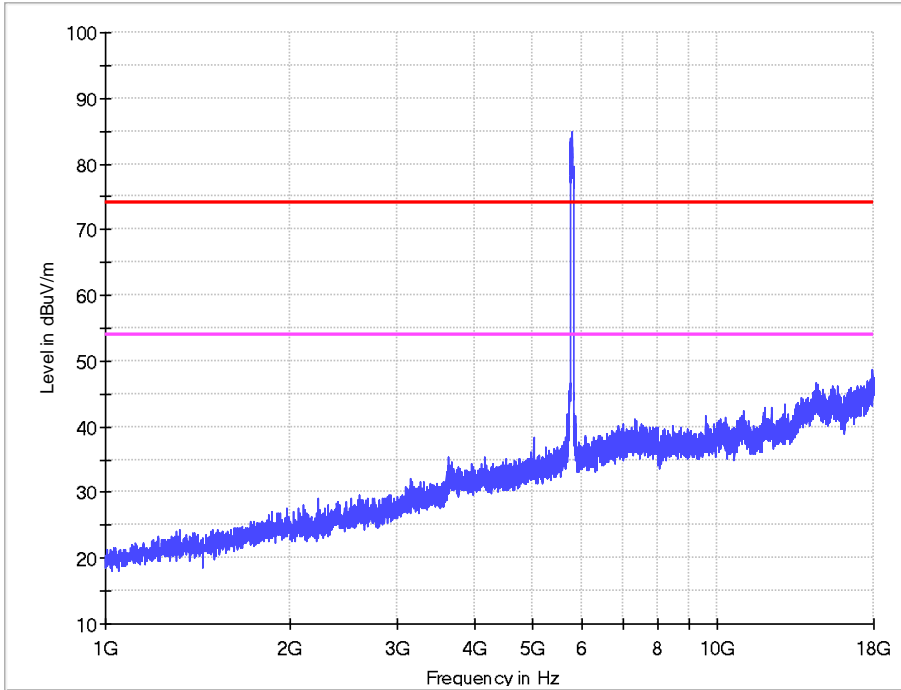


Vertical

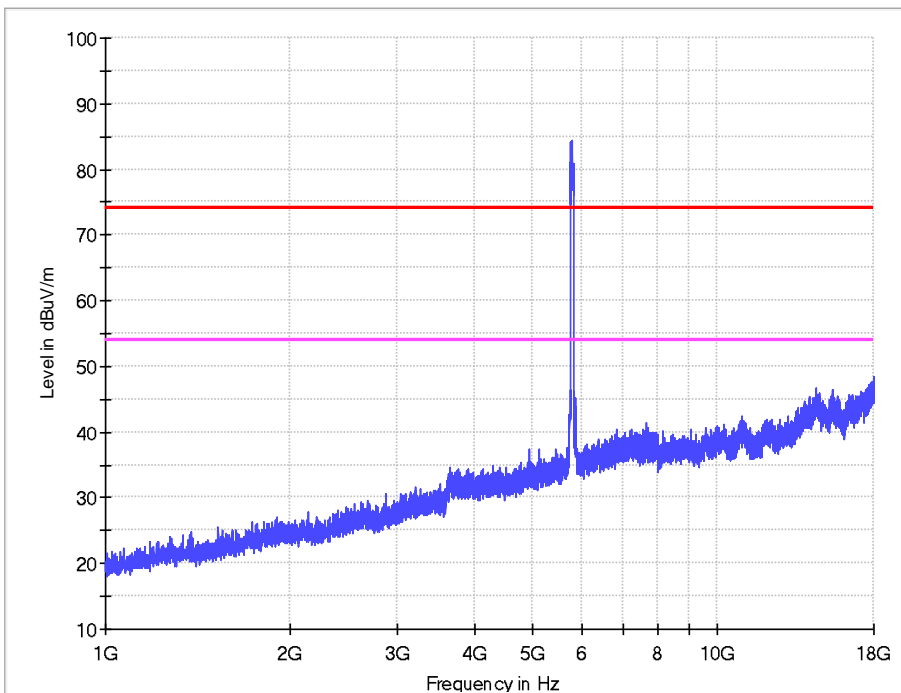


1-18G

11ac VHT80 IN THE 5.8GHz BAND  
CH155  
Horizontal

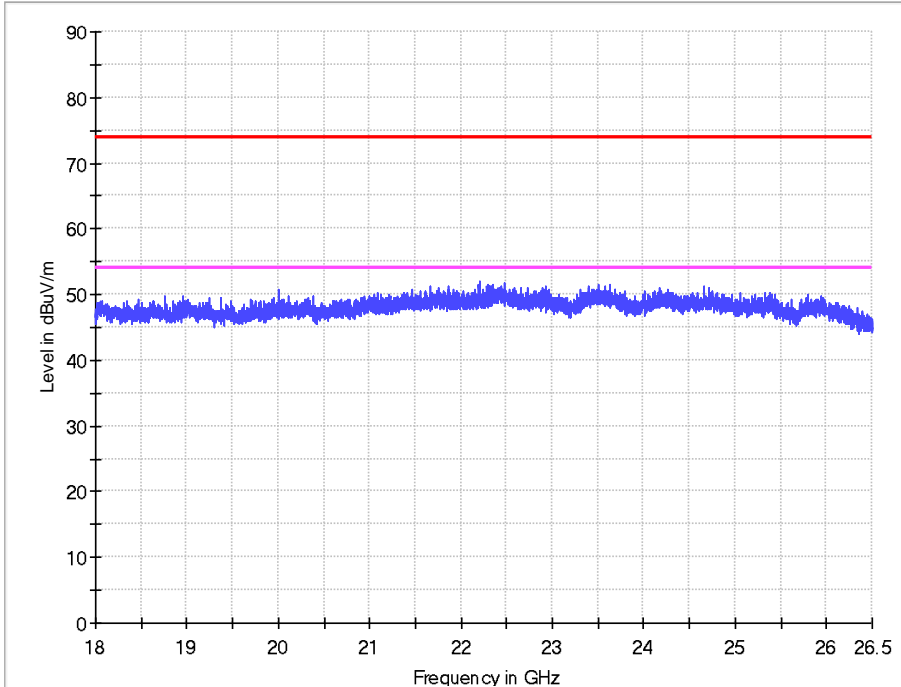


Vertical

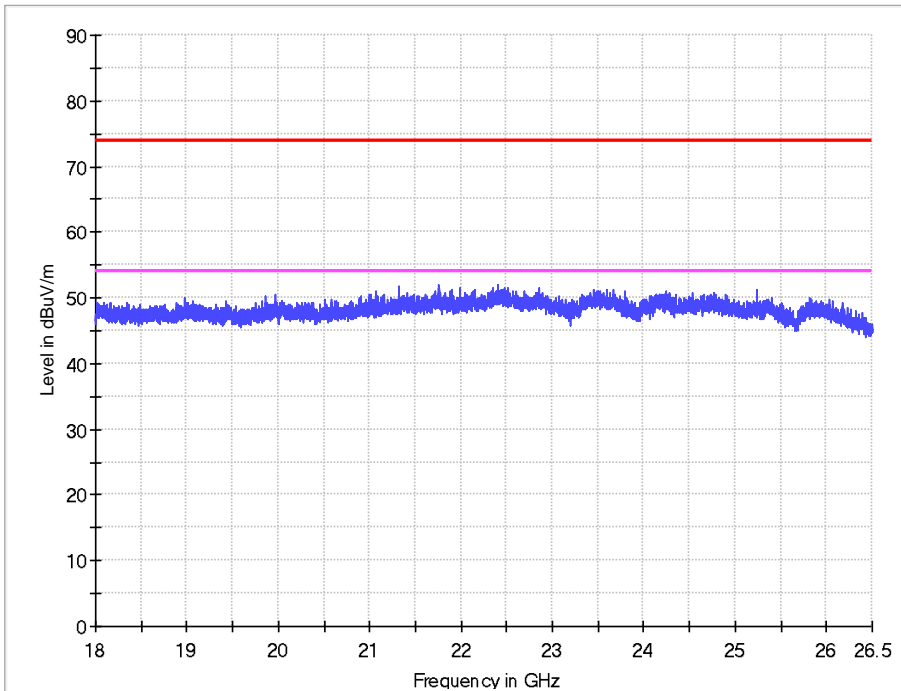


18GHz - 26.5GHz

(Worst Case)  
Horizontal

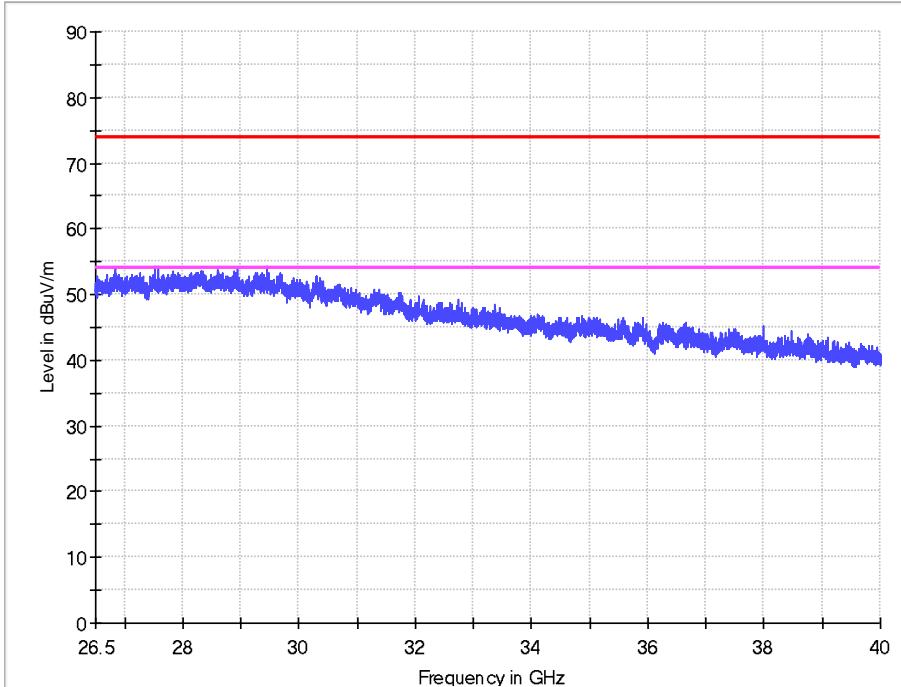


Vertical

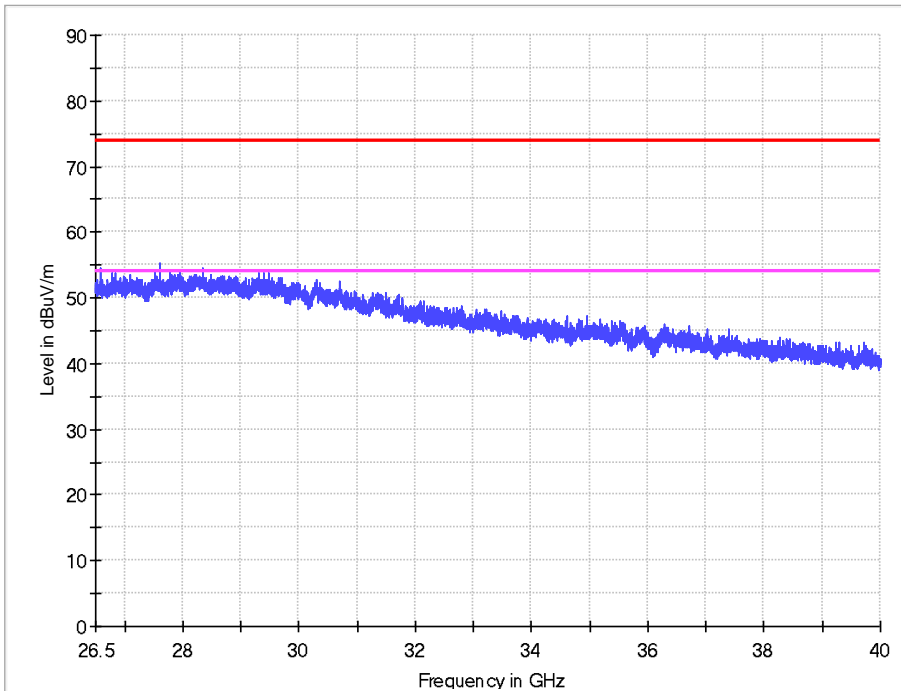


26.5 GHz - 40GHz

(Worst Case)  
Horizontal



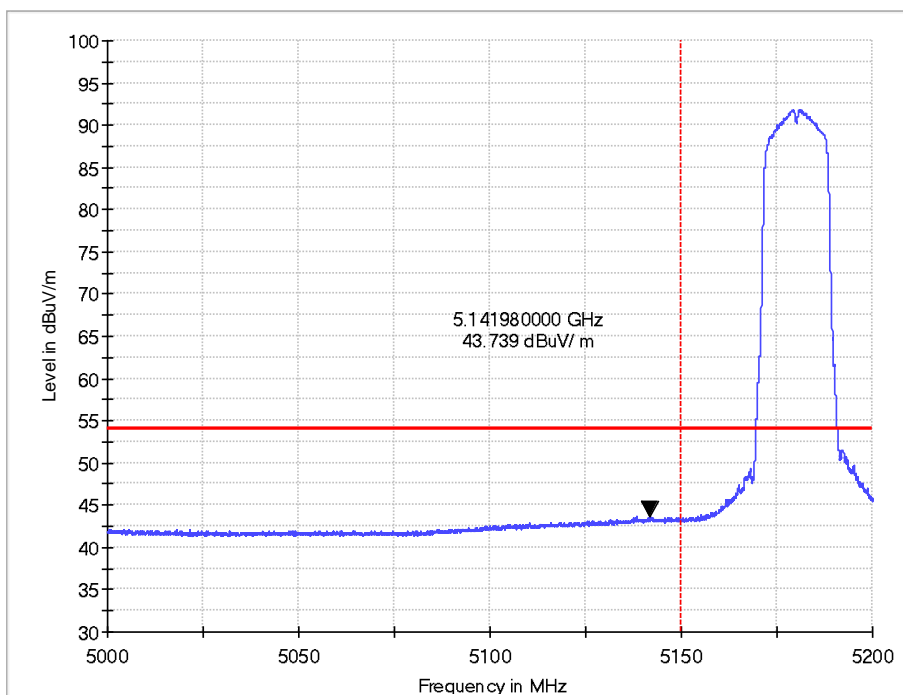
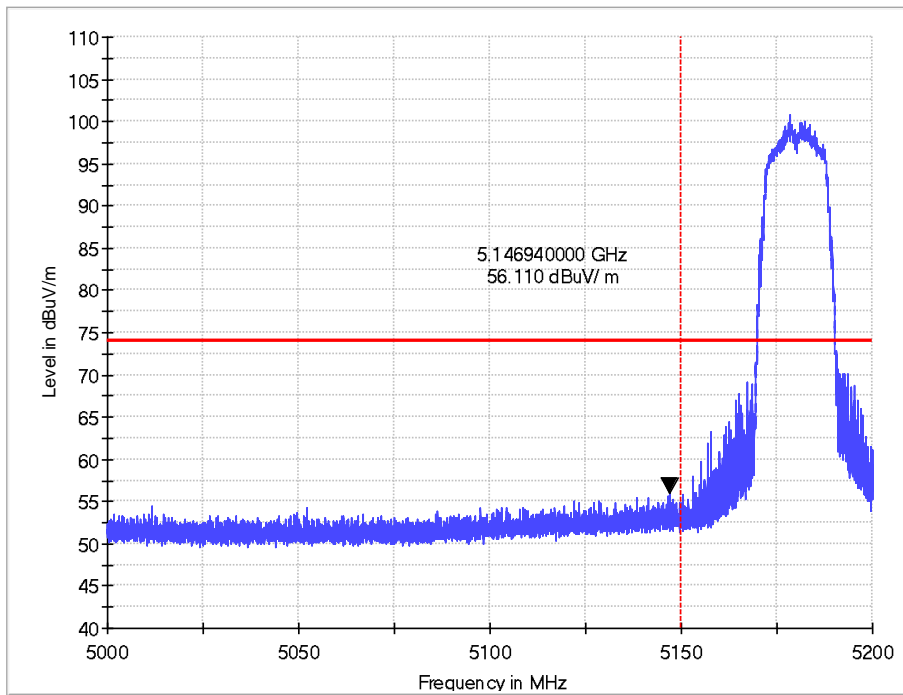
Vertical



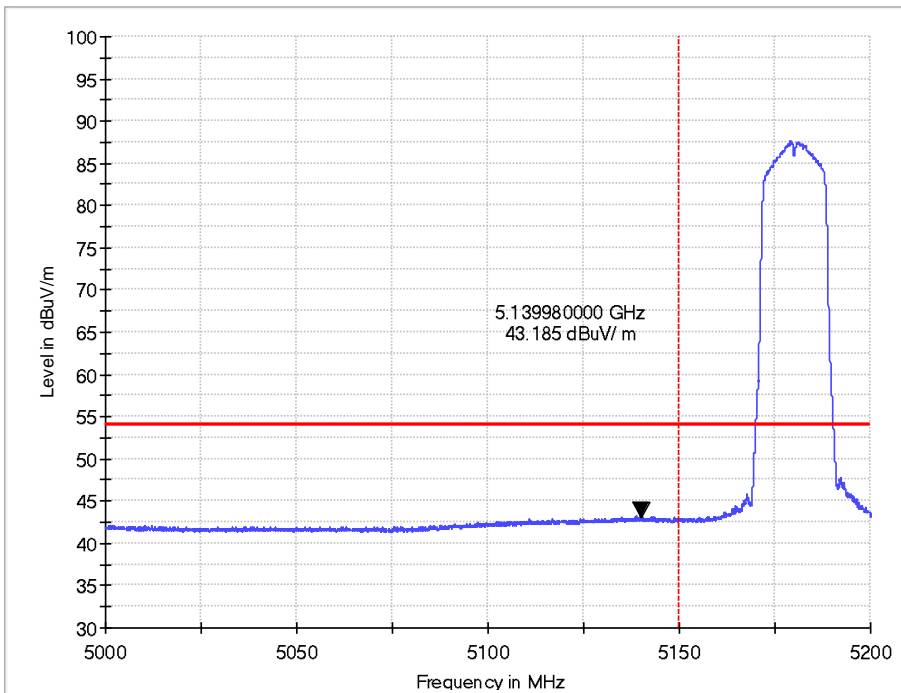
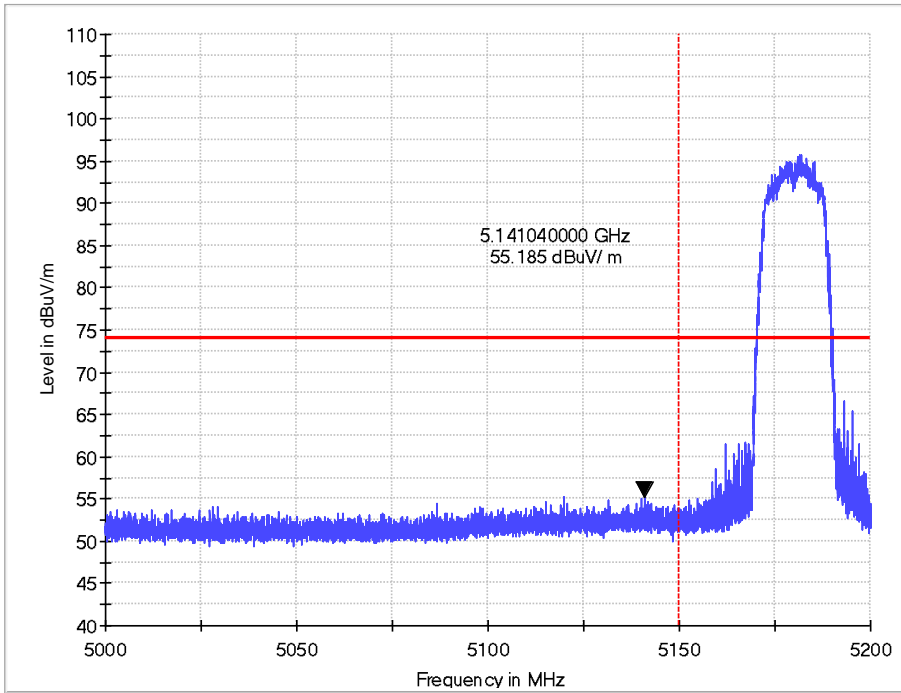
# Band edge

11a IN THE 5.2GHz BAND  
CH36

Horizontal



# Vertical

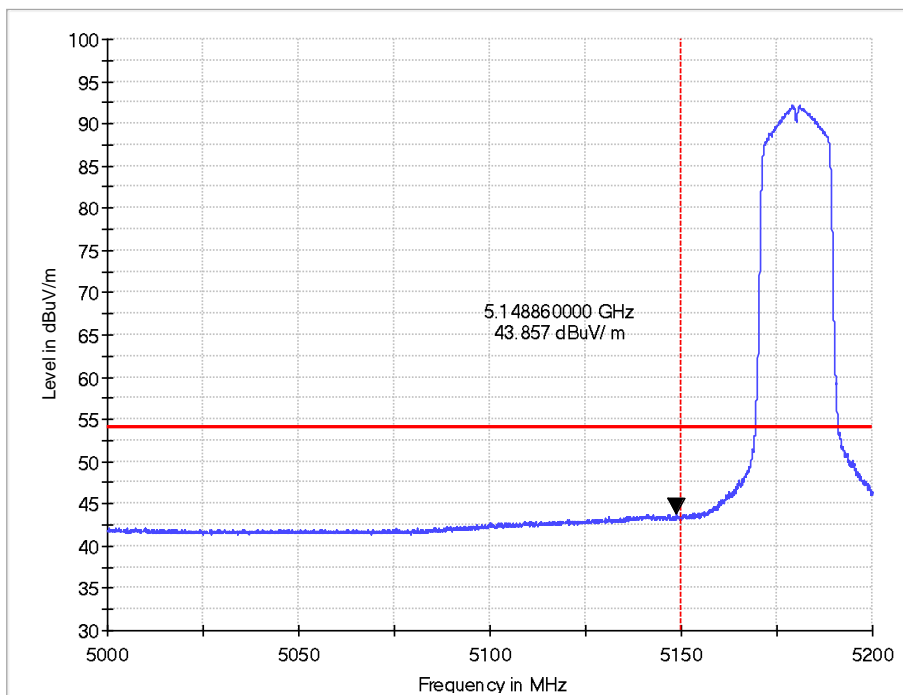
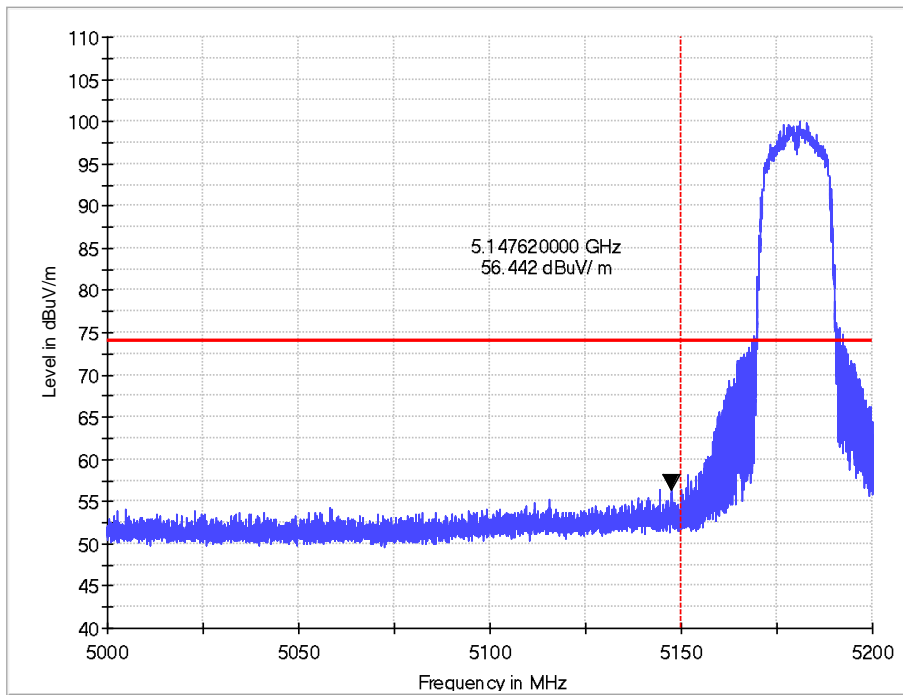




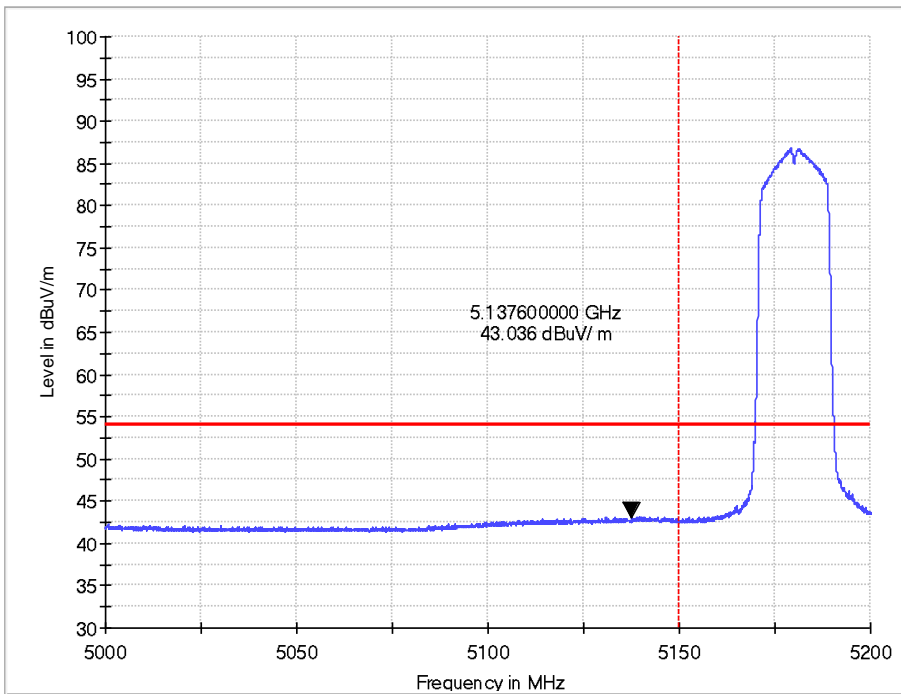
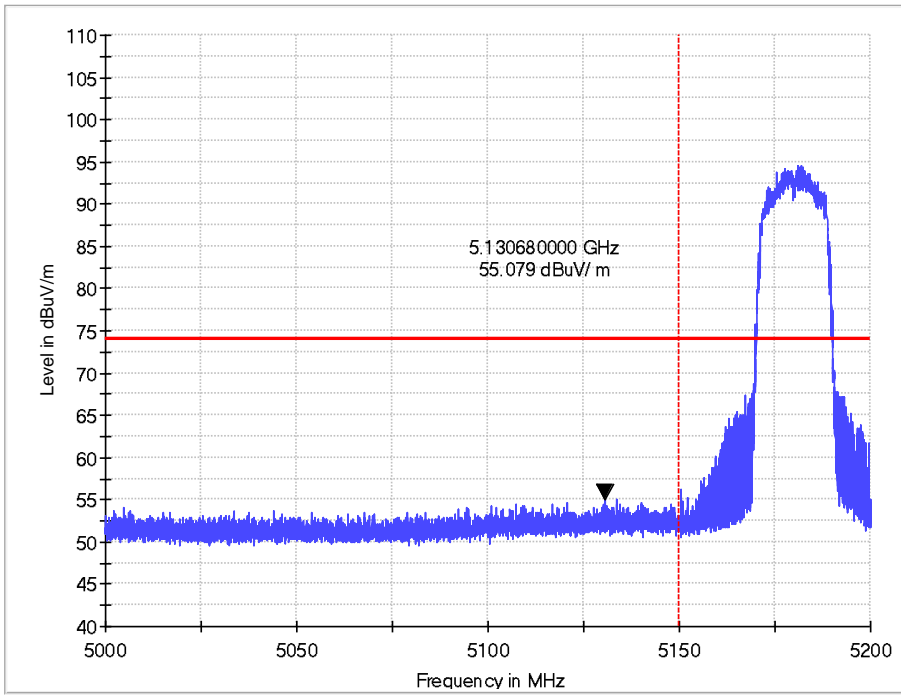
# Band edge

## 11n HT20 IN THE 5.2GHz BAND CH36

### Horizontal



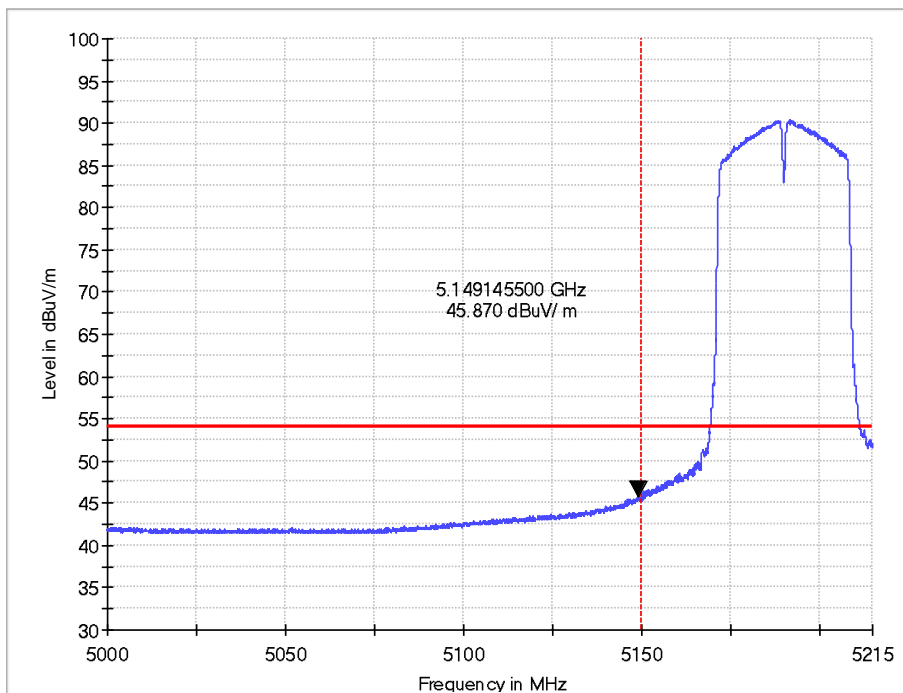
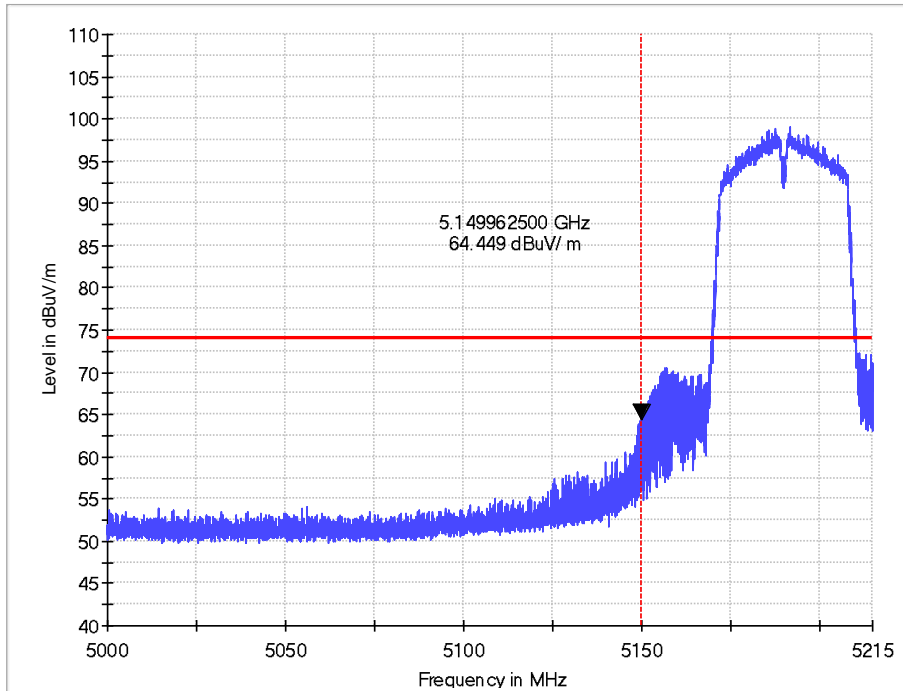
Vertical



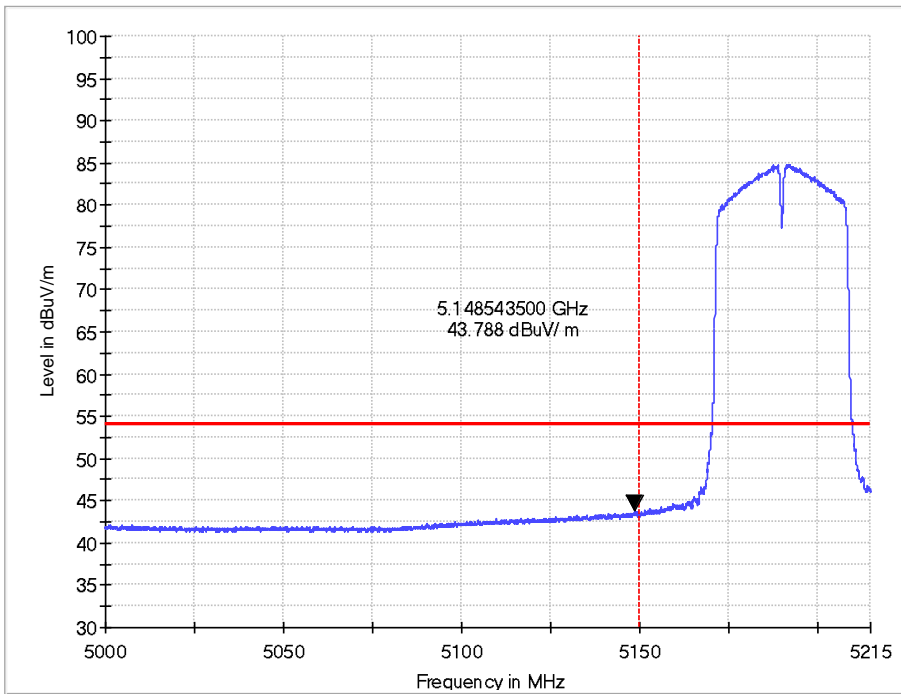
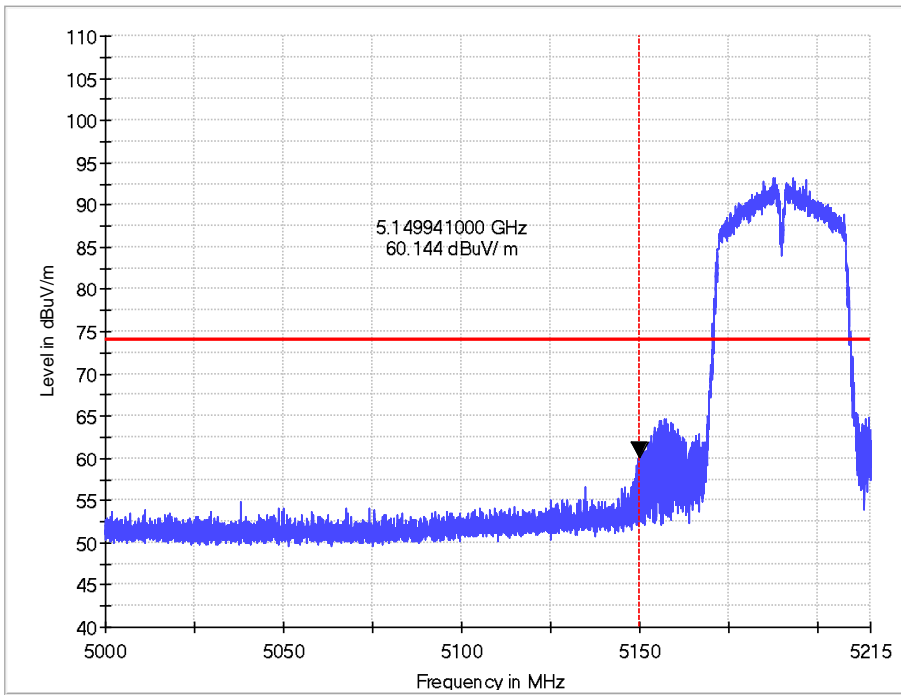
# Band edge

11n HT40 IN THE 5.2GHz BAND  
CH38

## Horizontal



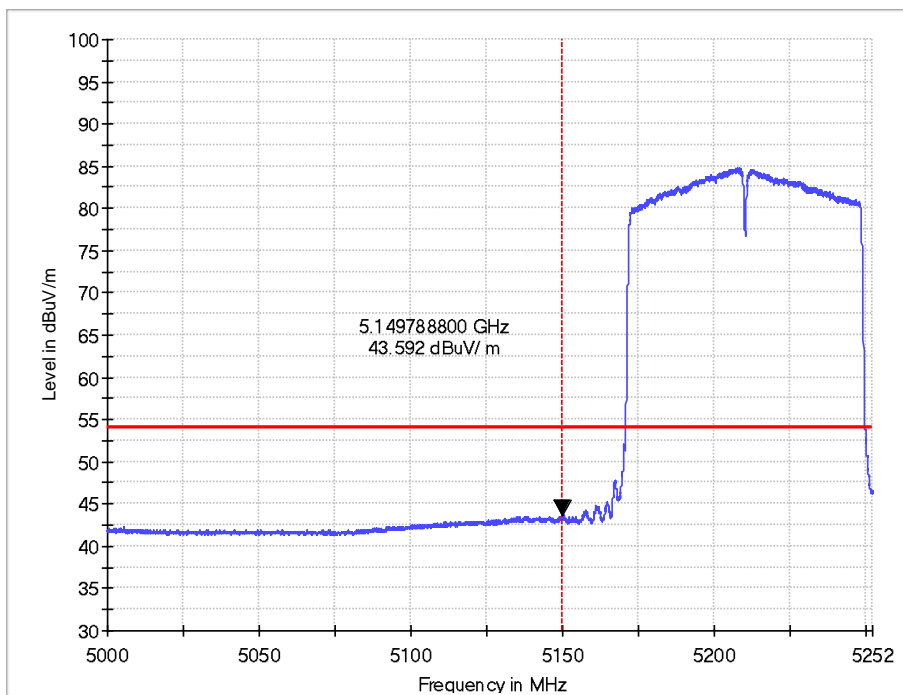
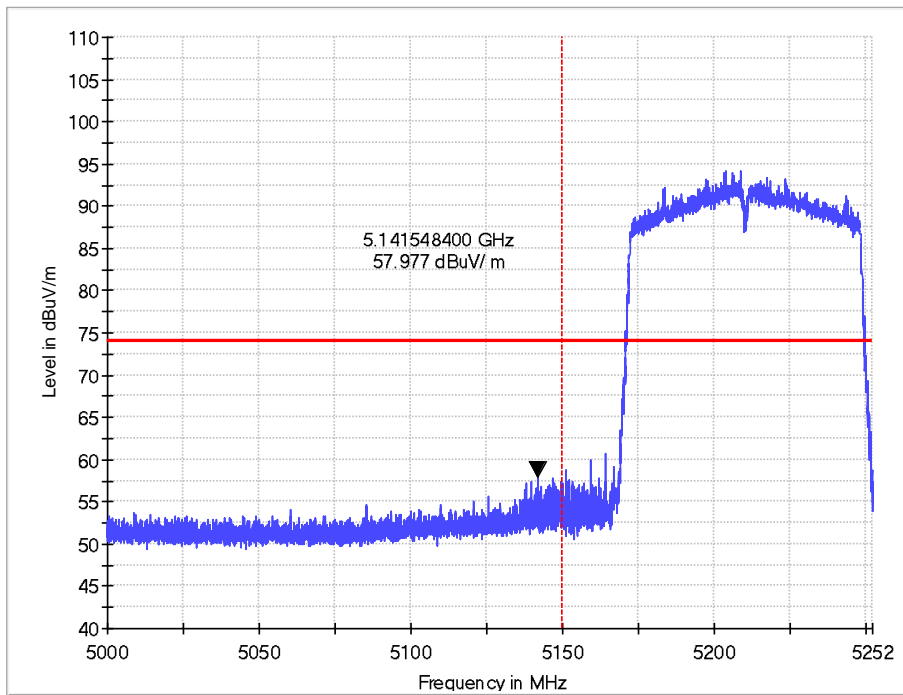
Vertical



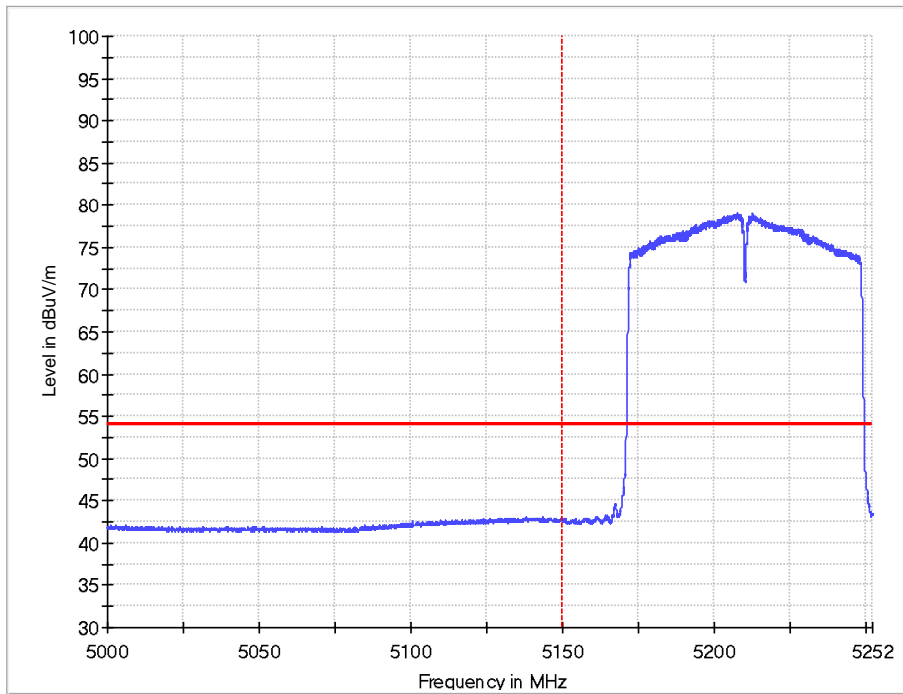
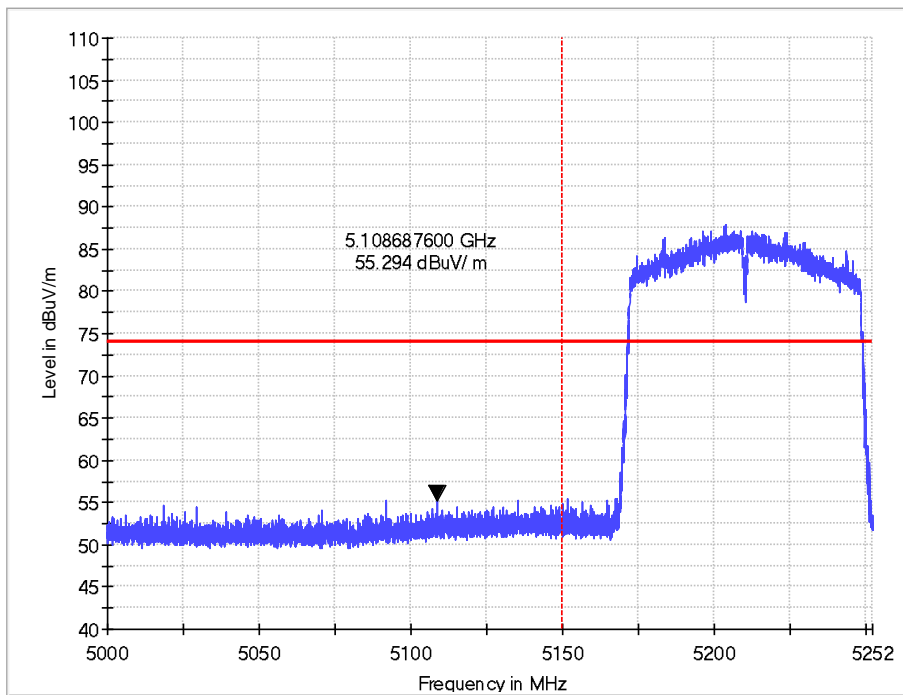
# Band edge

## 11ac VHT80 IN THE 5.2GHz BAND CH42

### Horizontal



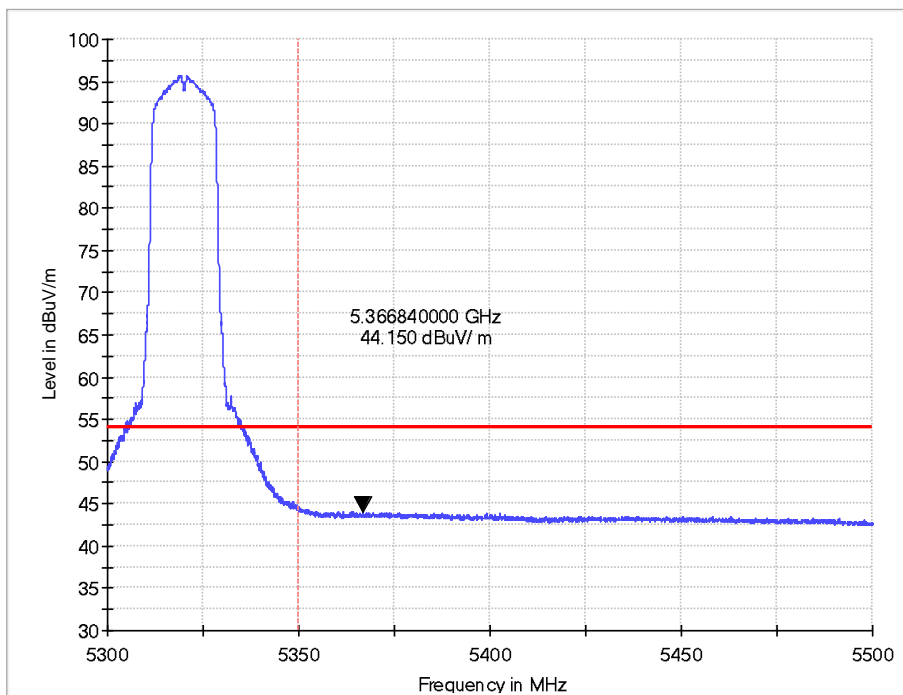
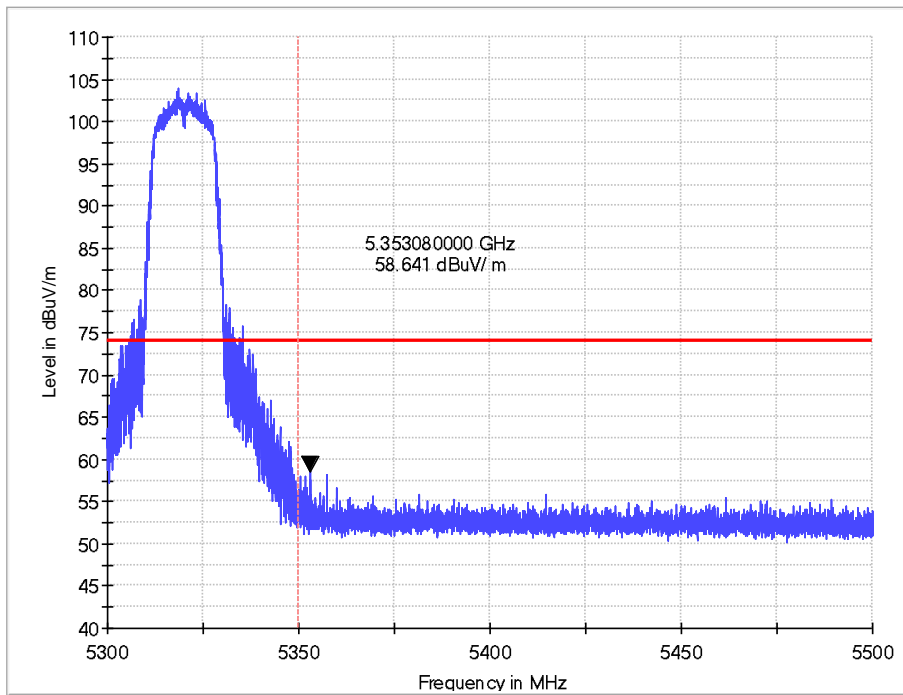
# Vertical



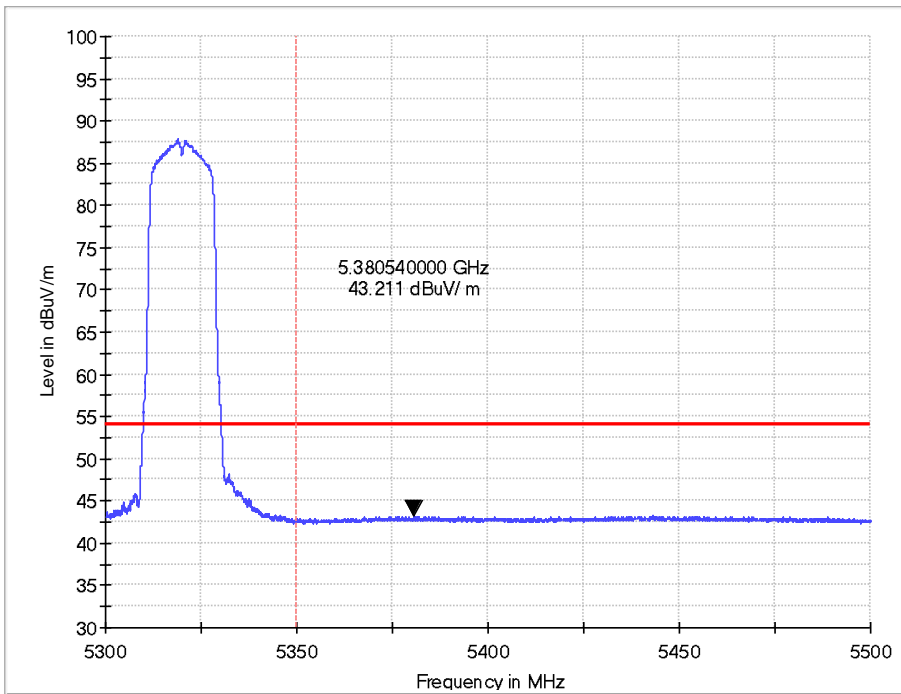
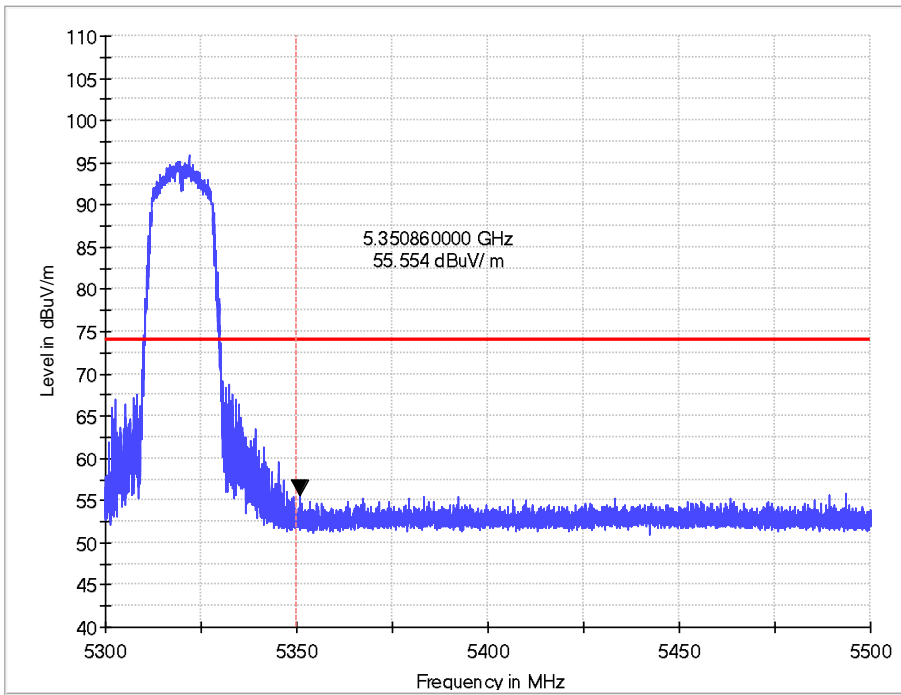
# Band edge

11a IN THE 5.3GHz BAND  
CH64

Horizontal



# Vertical

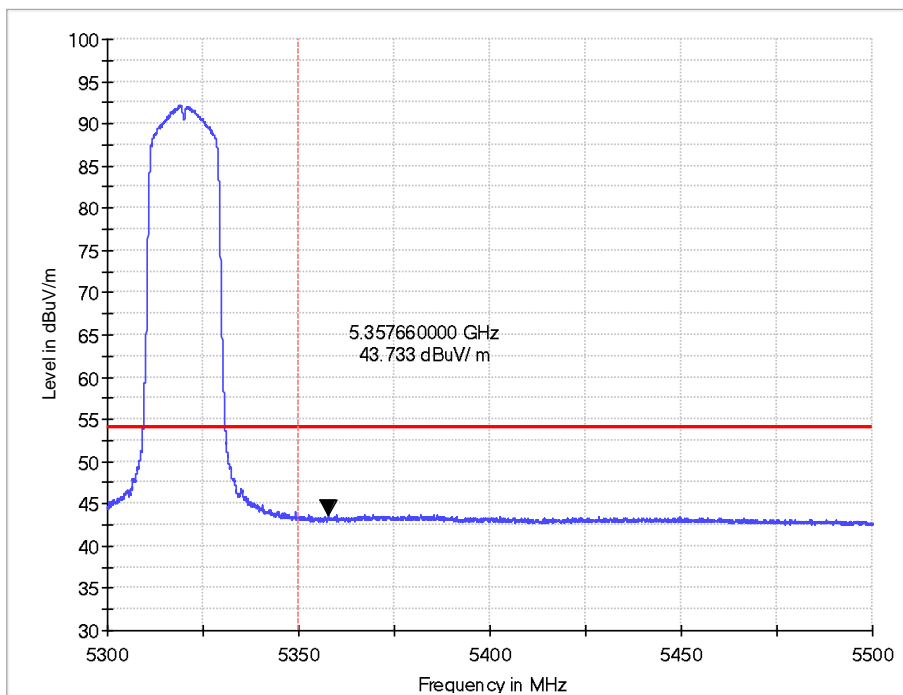
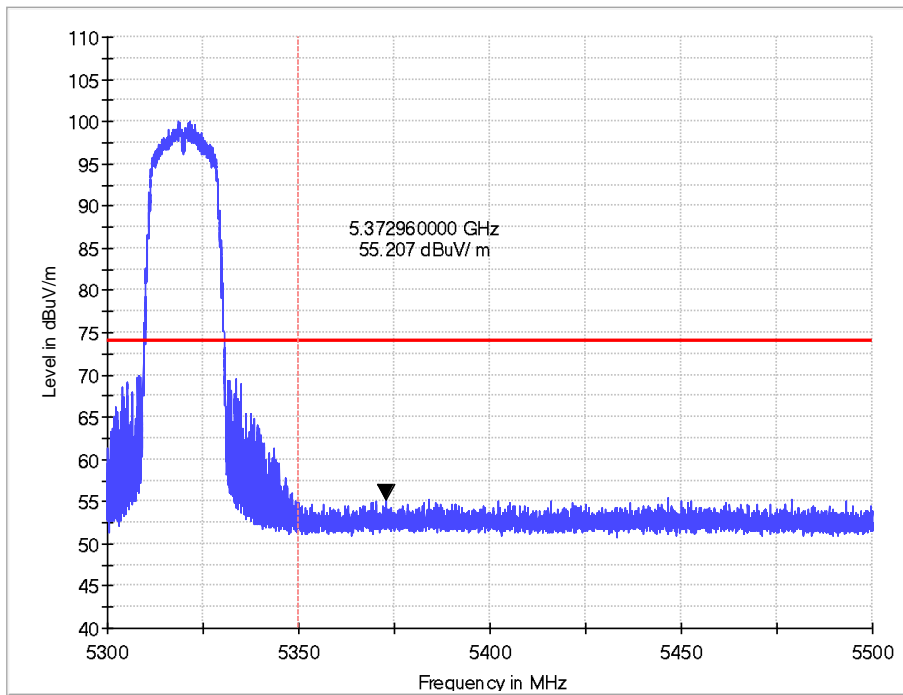




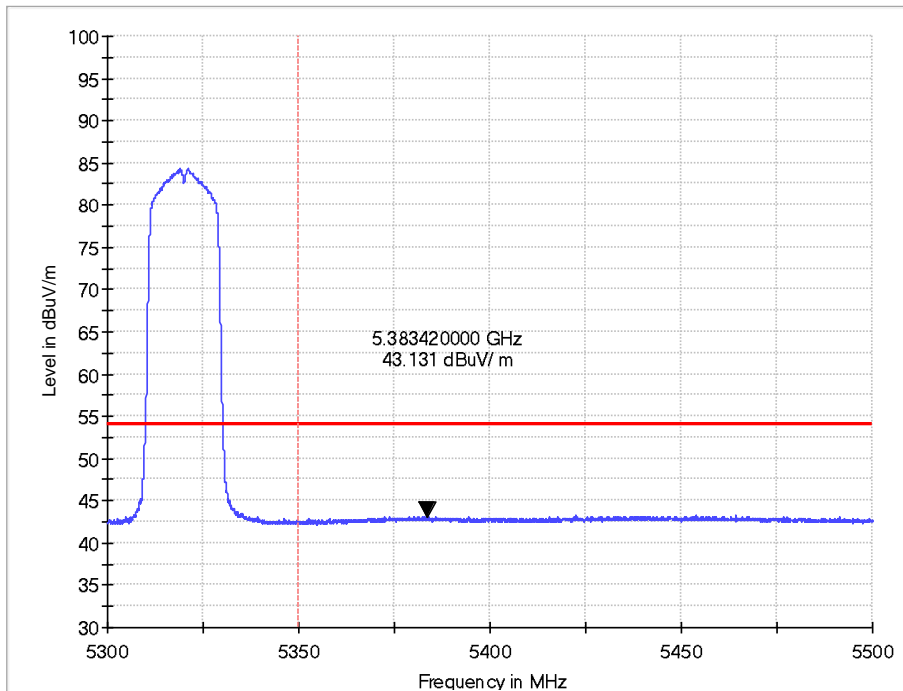
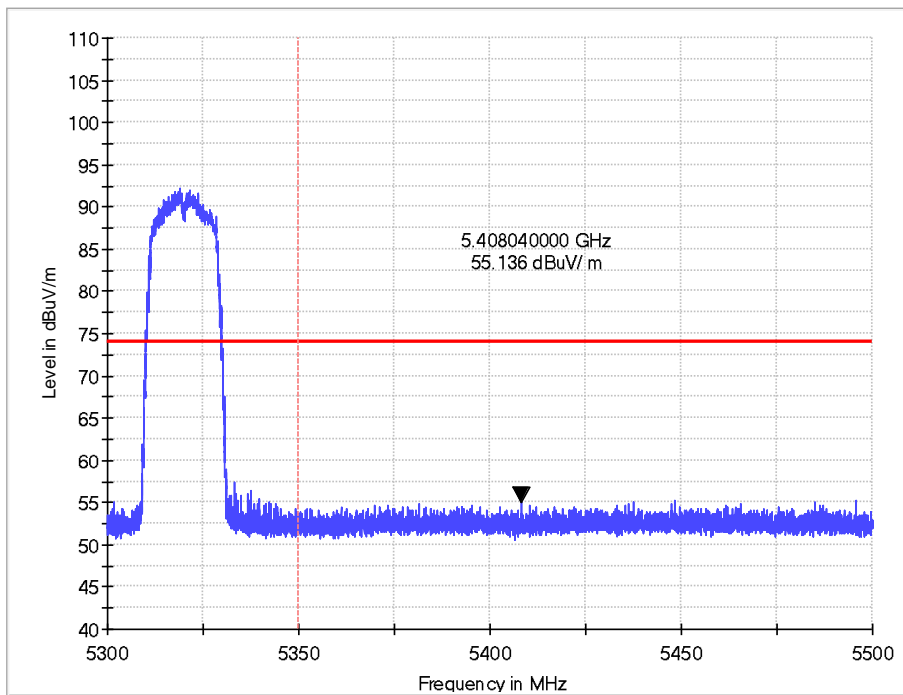
# Band edge

11n HT20 IN THE 5.3GHz BAND  
CH64

Horizontal



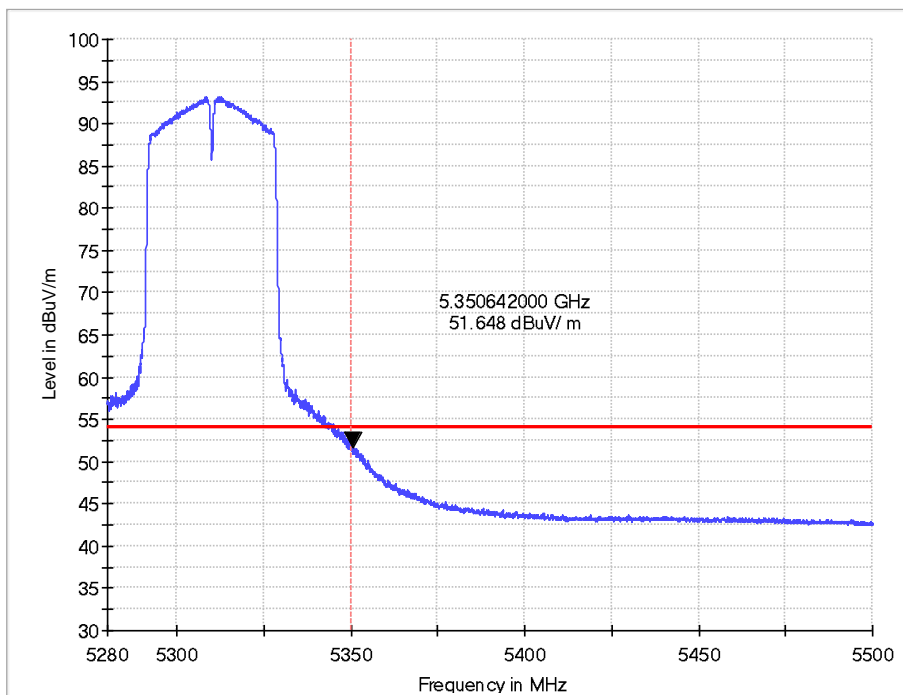
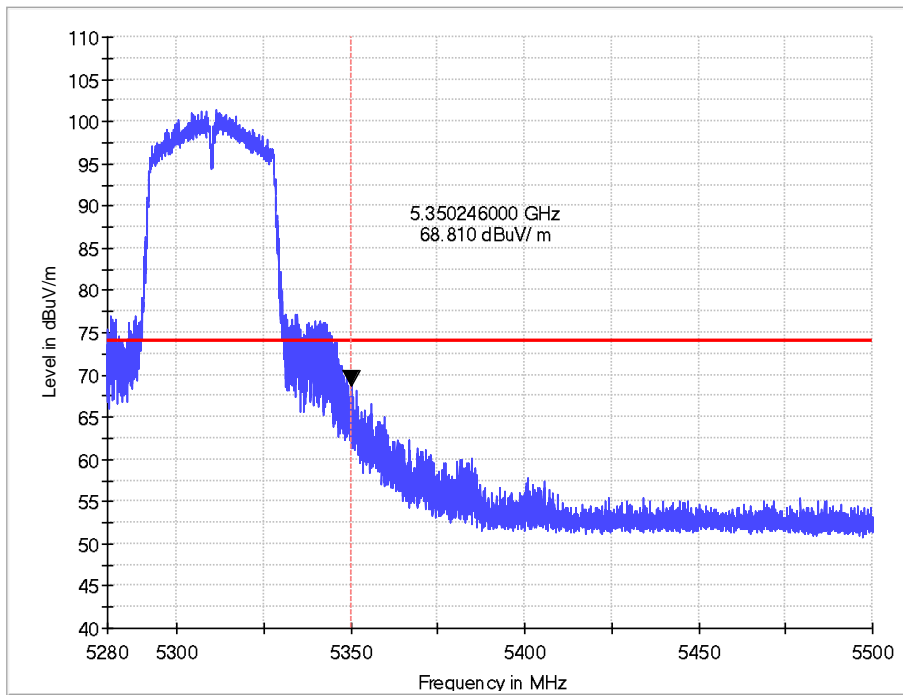
# Vertical



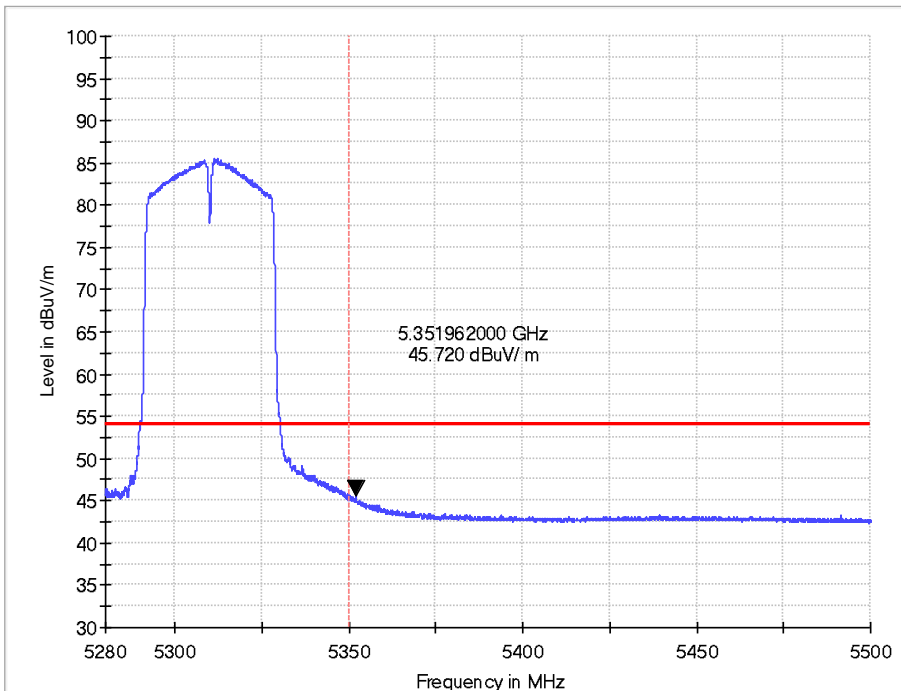
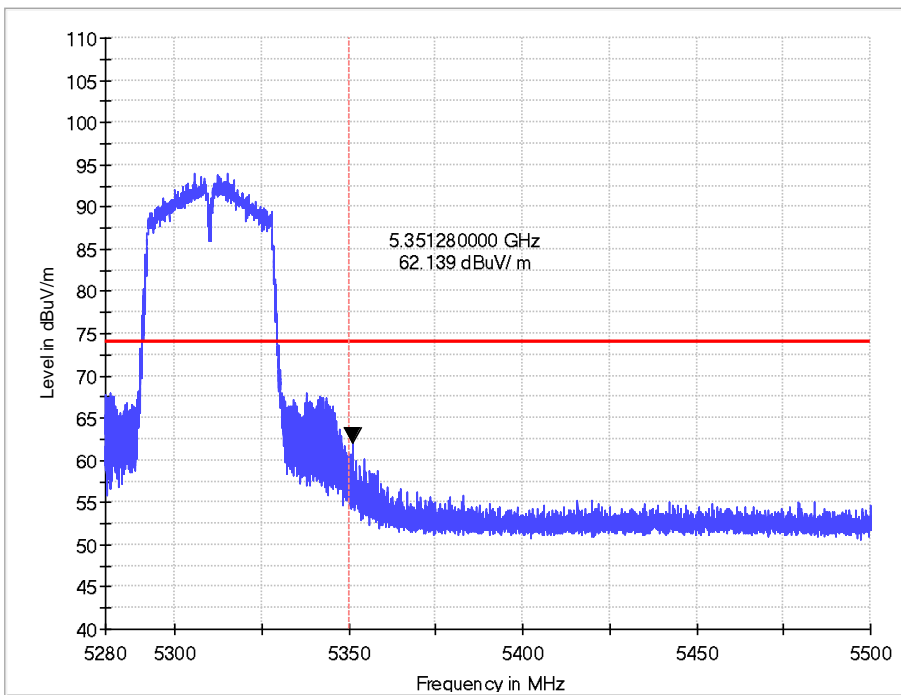
# Band edge

## 11n HT40 IN THE 5.3GHz BAND CH62

### Horizontal



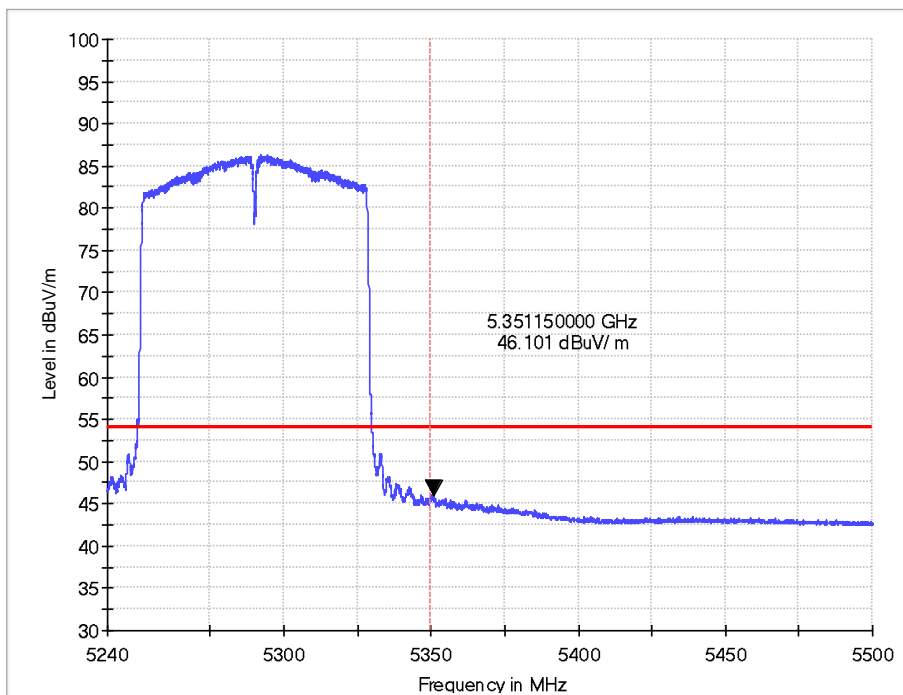
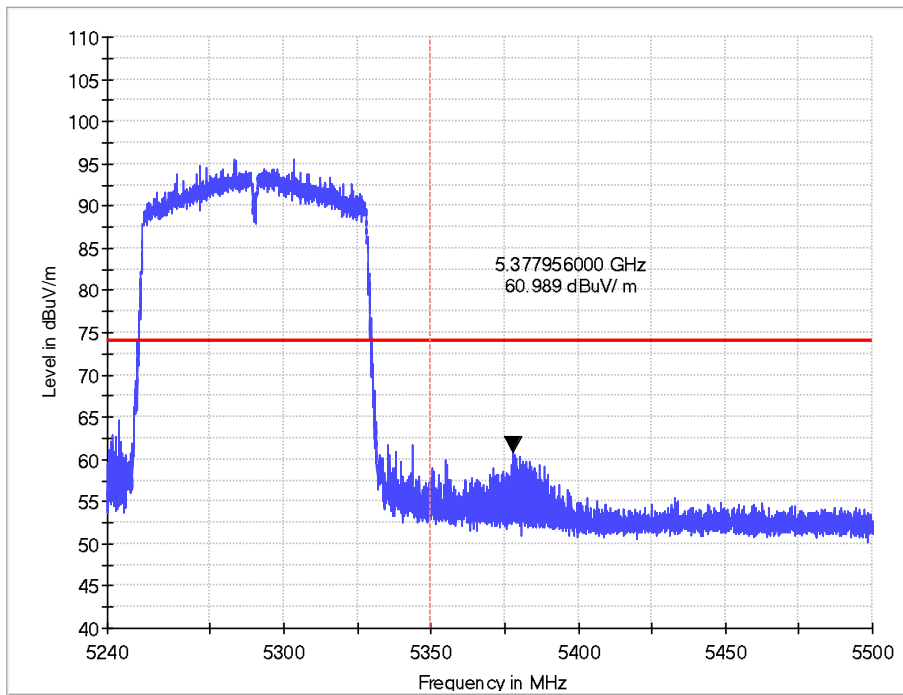
# Vertical



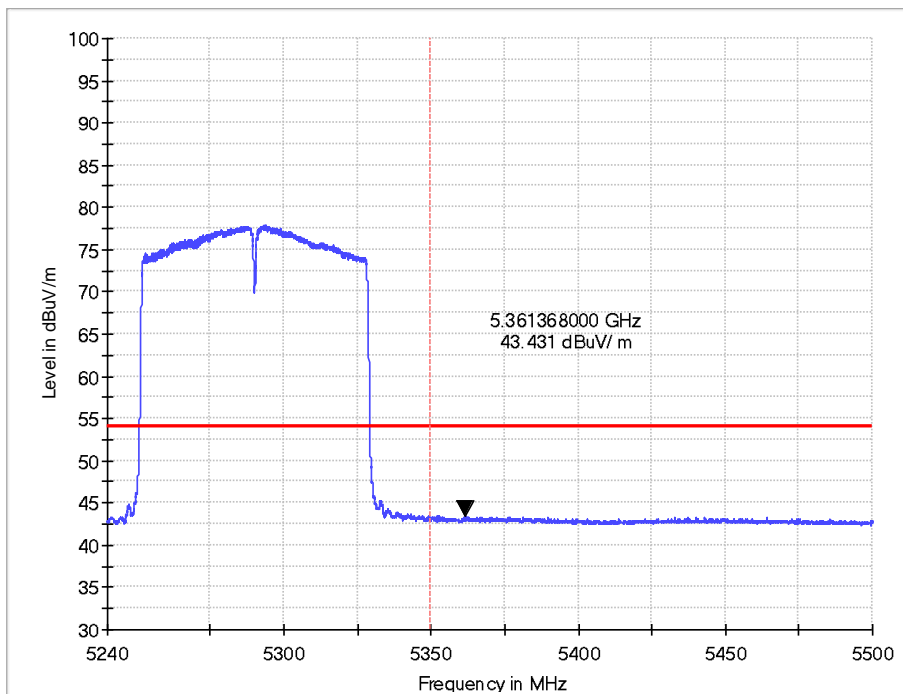
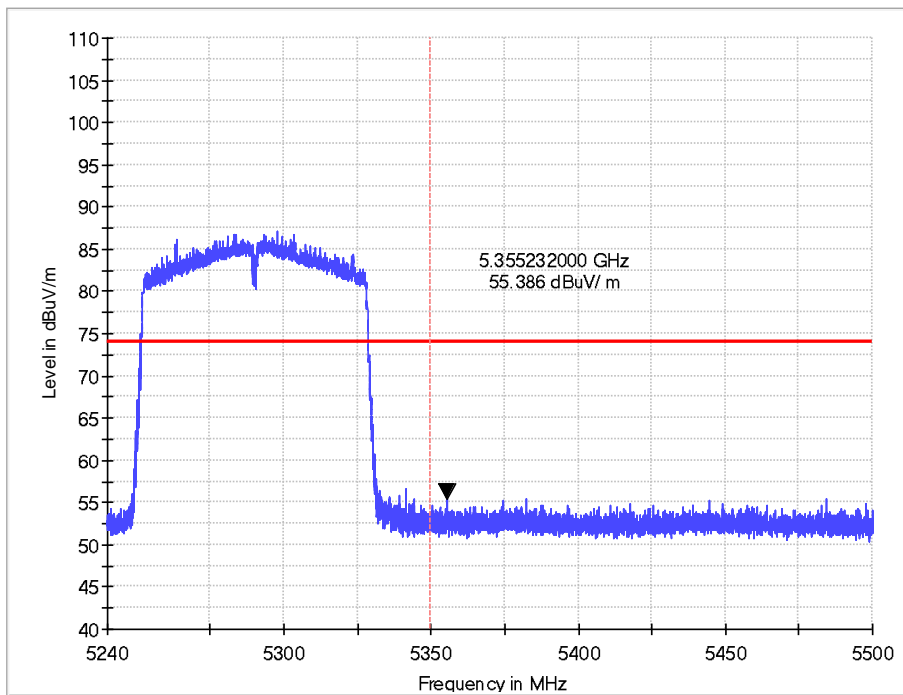
# Band edge

11ac VHT80 IN THE 5.3GHZ BAND  
CH58

Horizontal



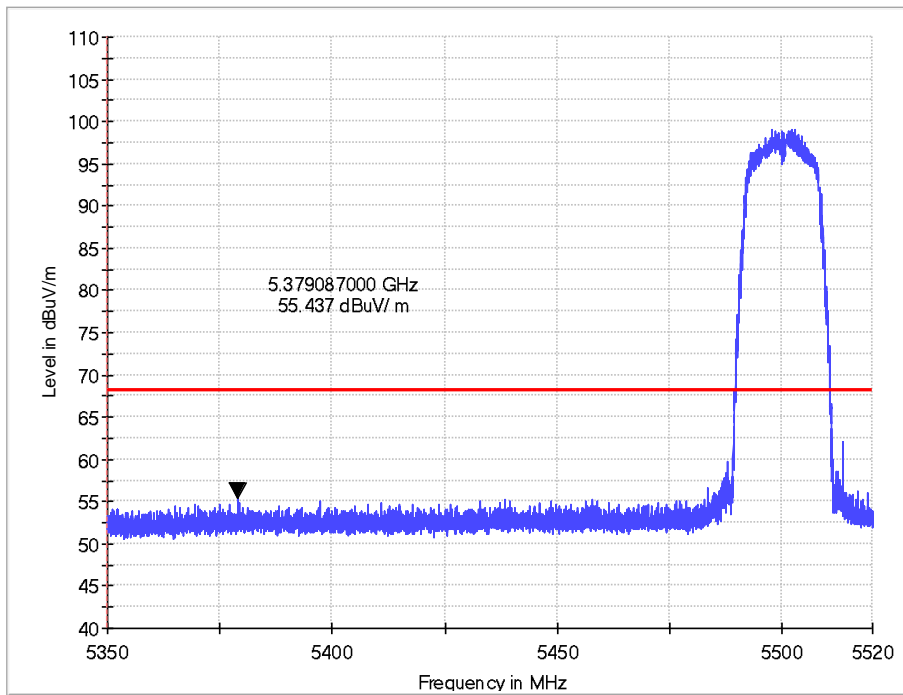
# Vertical



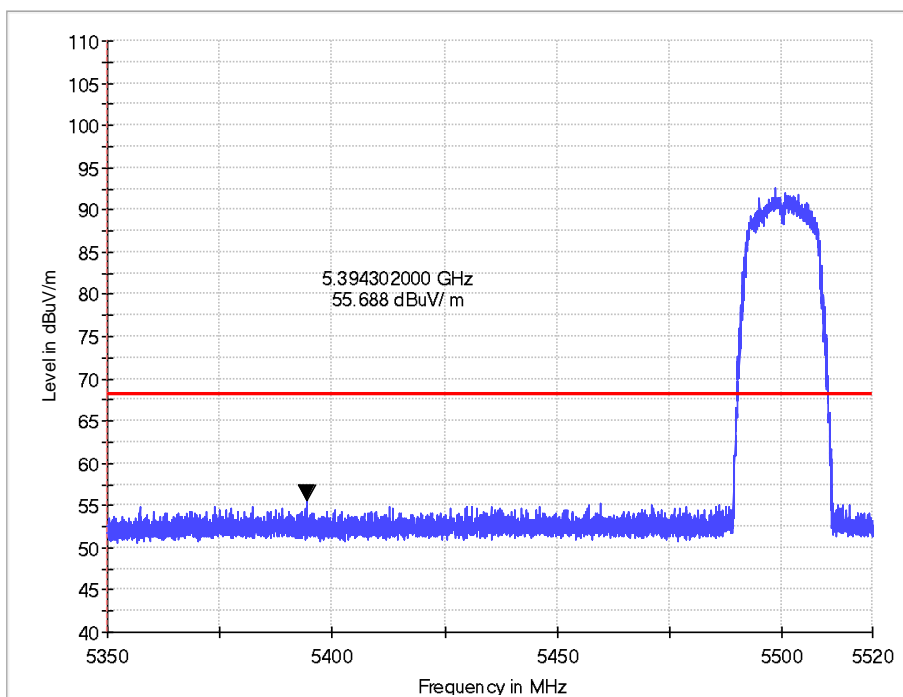
## Band edge

11a IN THE 5.6GHz BAND  
CH100

## Horizontal



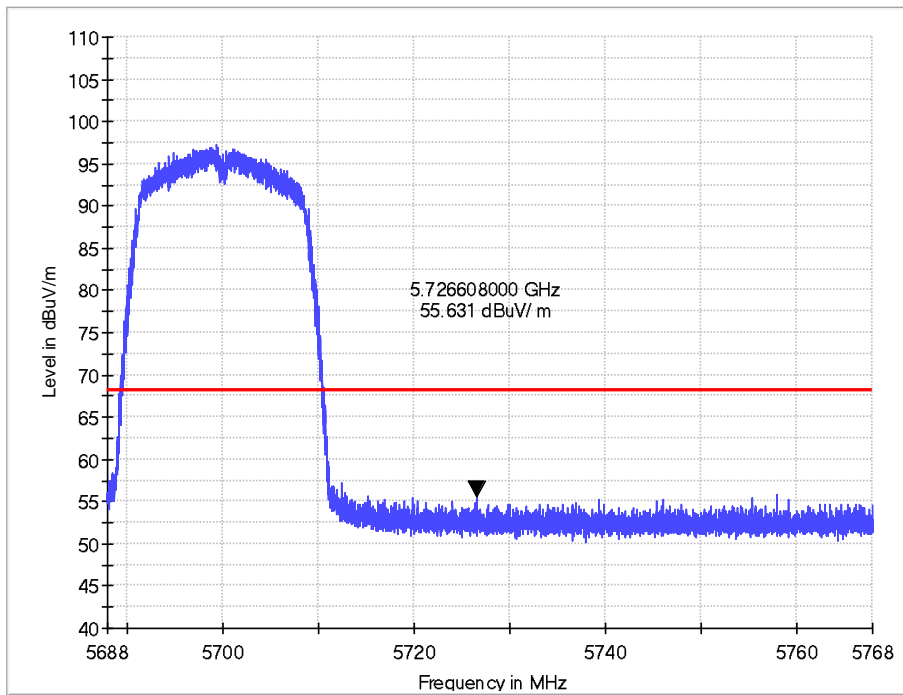
## Vertical



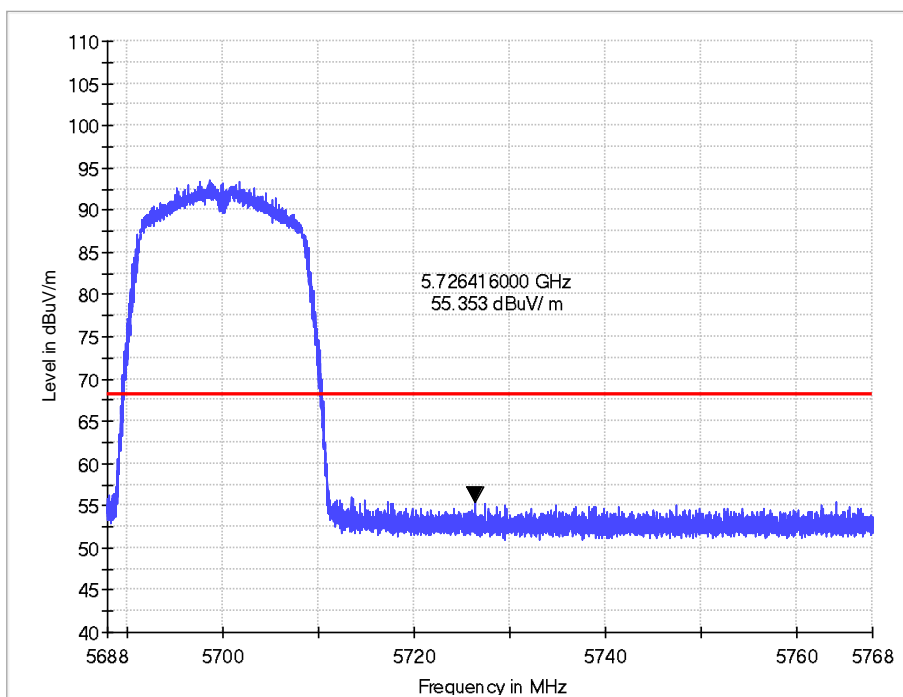
## Band edge

11a IN THE 5.6GHz BAND  
CH140

## Horizontal



## Vertical

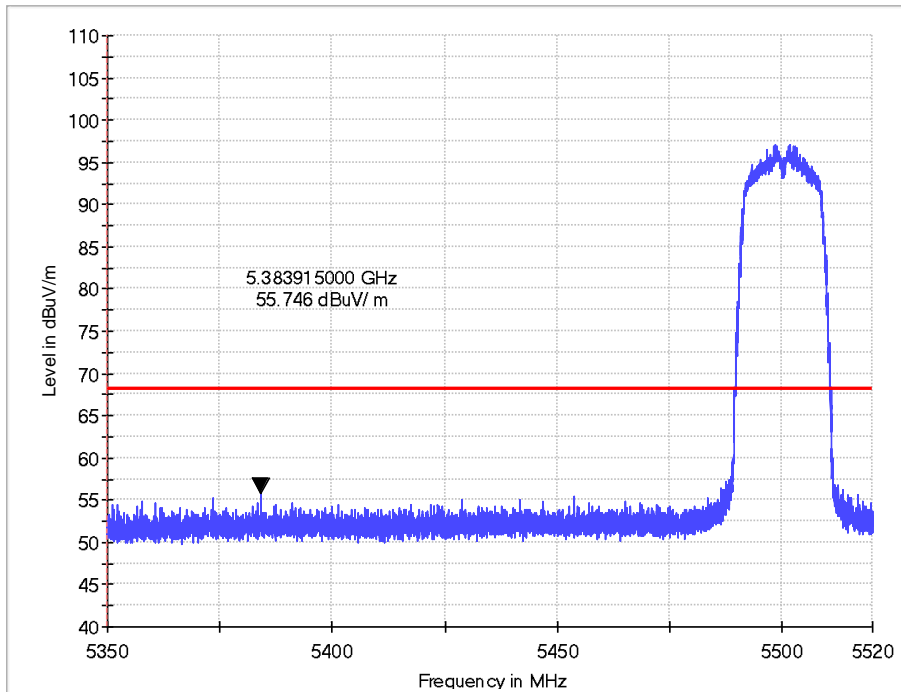




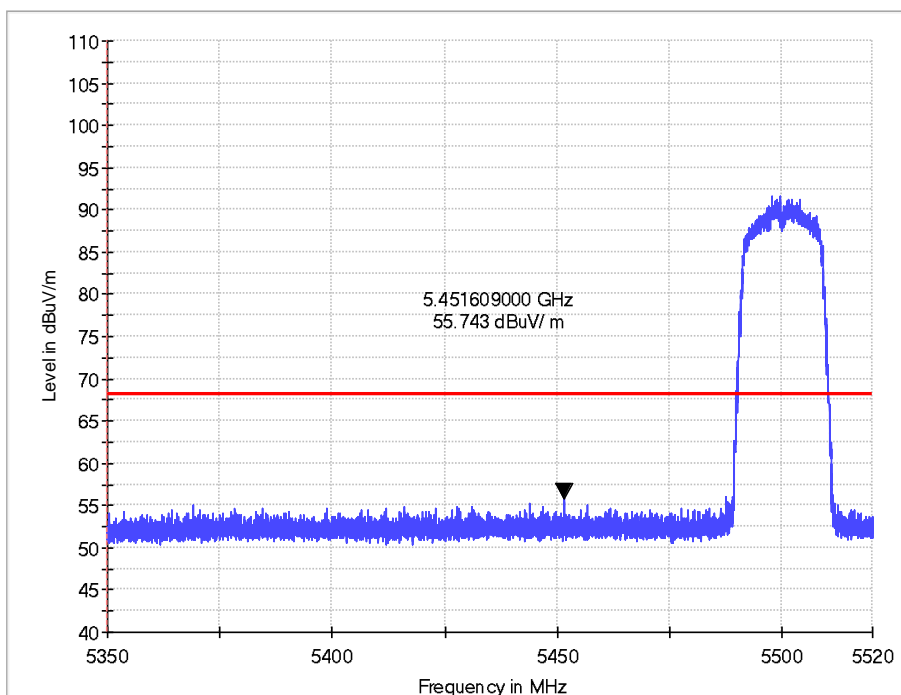
## Band edge

11n HT20 IN THE 5.6GHz BAND  
CH100

Horizontal



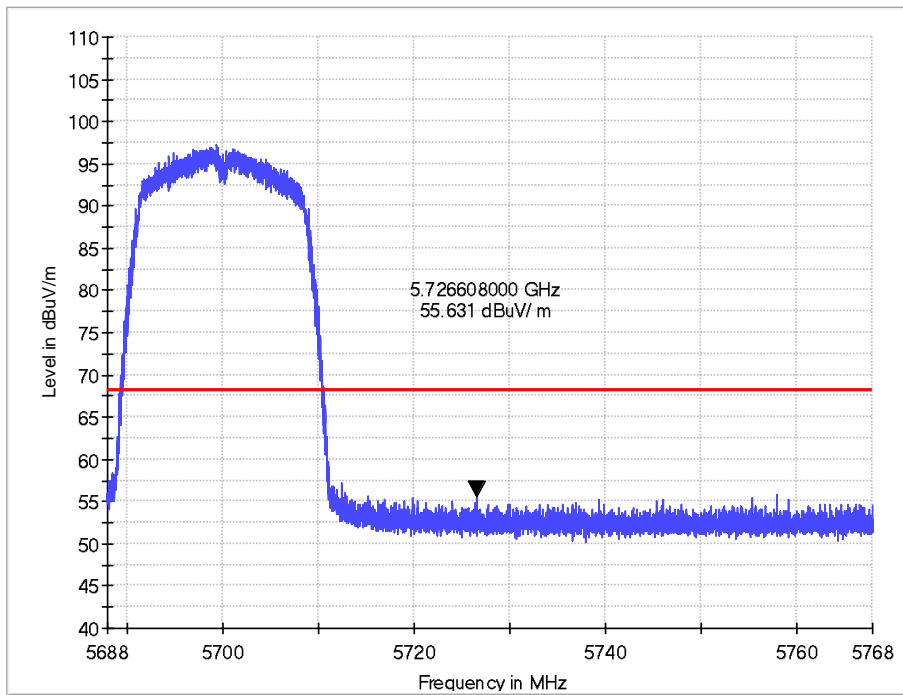
Vertical



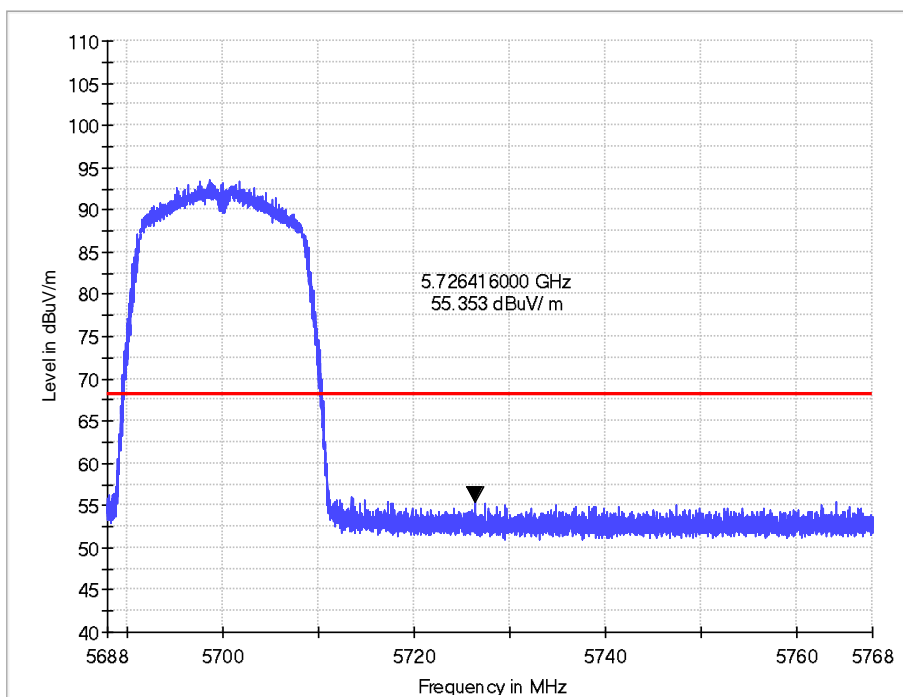
## Band edge

11n HT20 IN THE 5.6GHz BAND  
CH140

## Horizontal



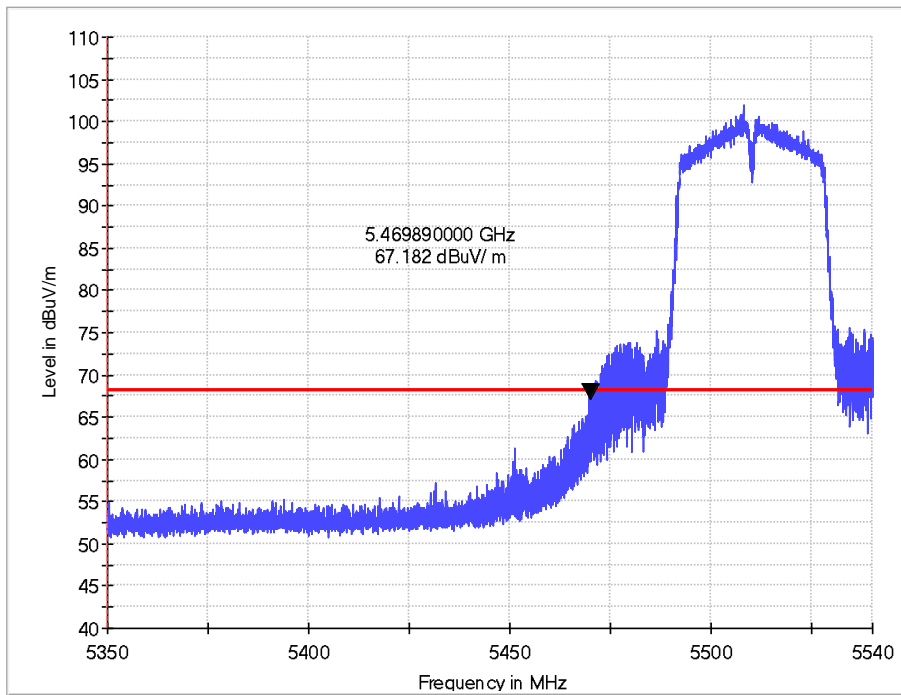
## Vertical



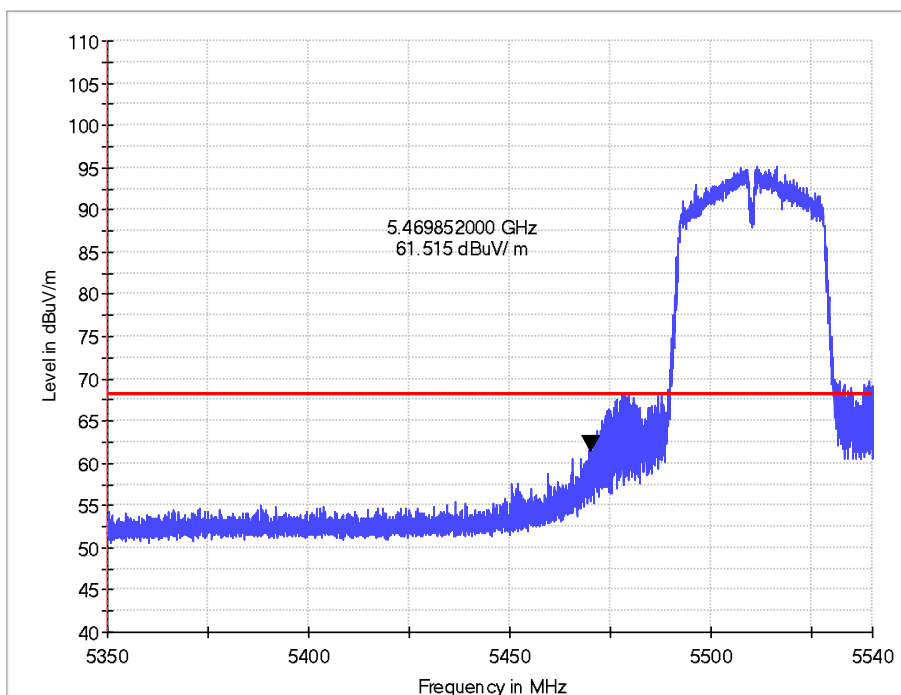
## Band edge

11n HT40 IN THE 5.6GHz BAND  
CH102

## Horizontal



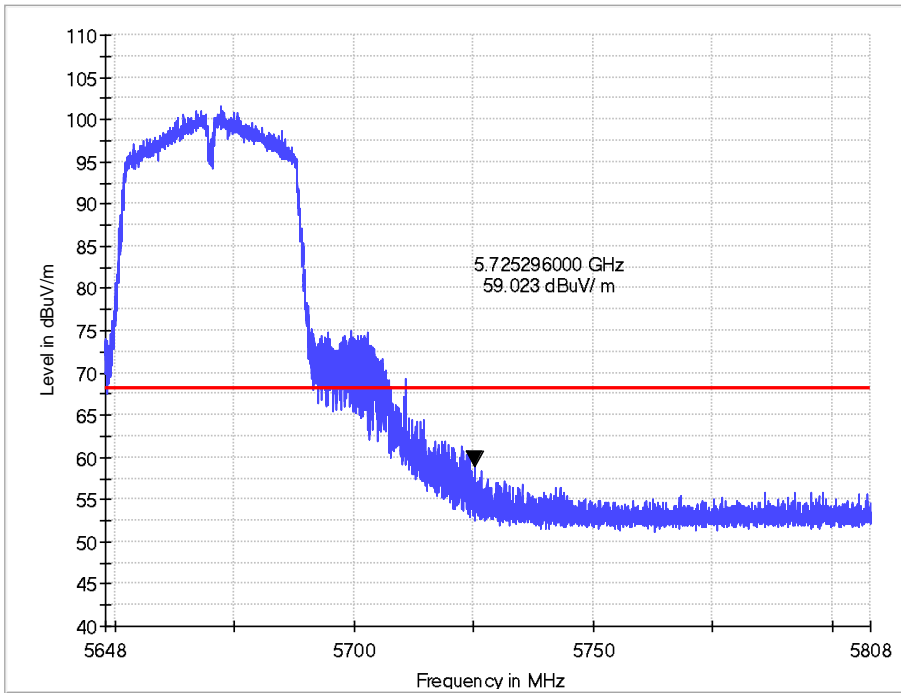
## Vertical



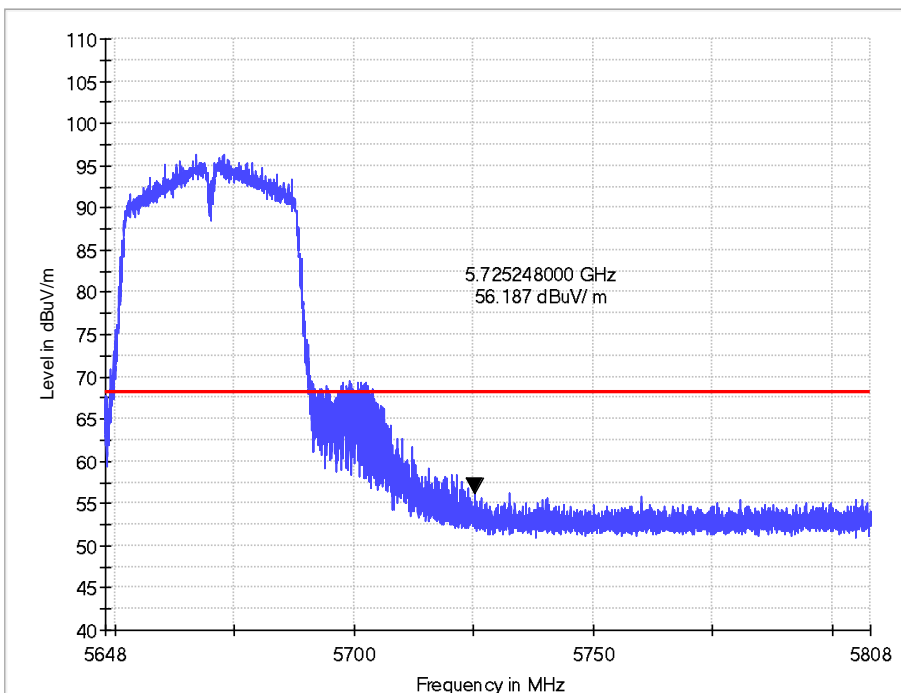
## Band edge

11n HT40 IN THE 5.6GHz BAND  
CH134

## Horizontal



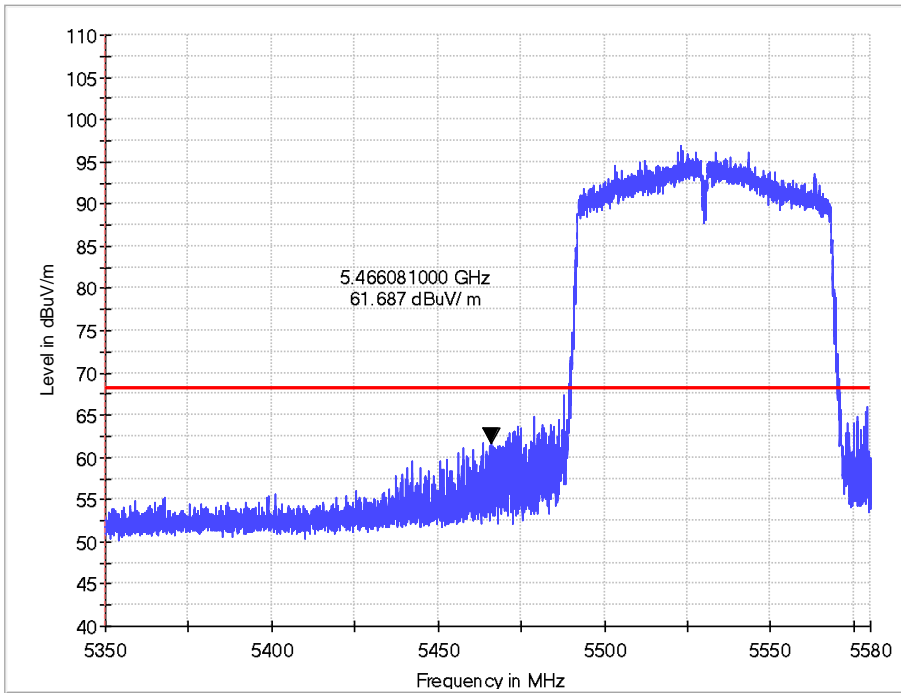
## Vertical



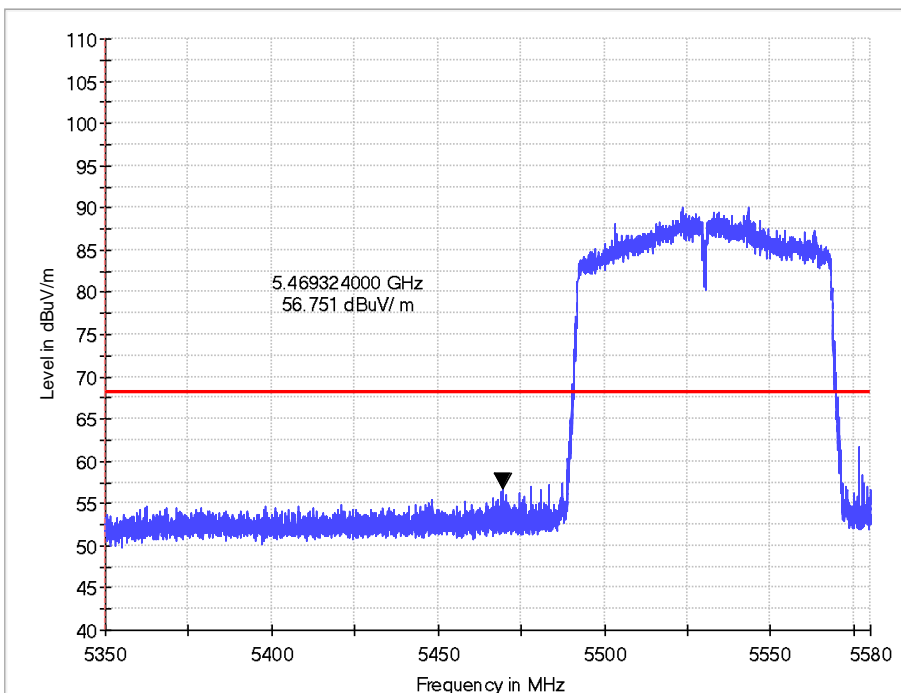
## Band edge

11ac VHT80 IN THE 5.6GHz BAND  
CH106

## Horizontal



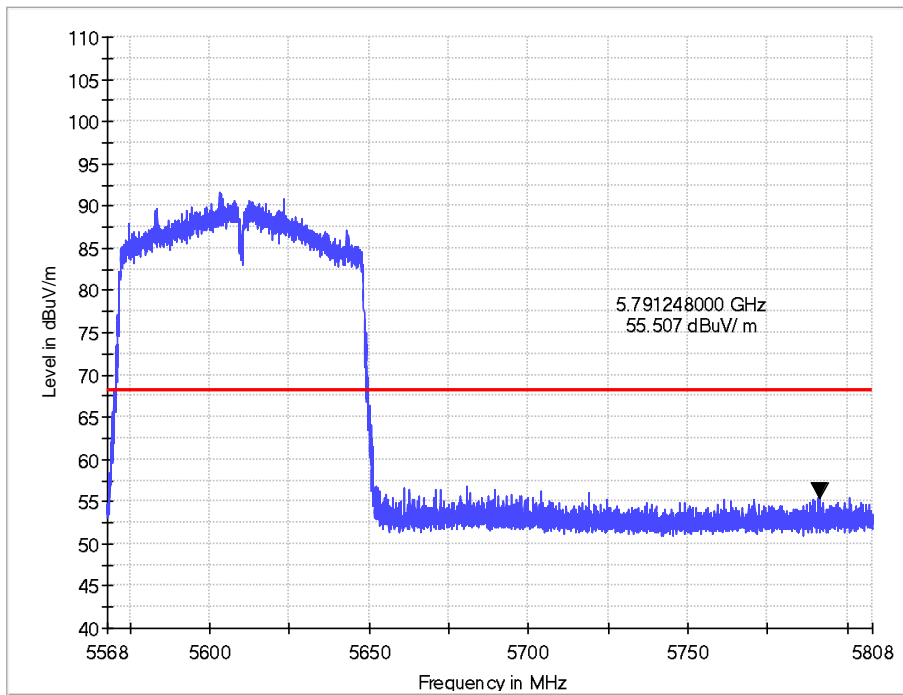
## Vertical



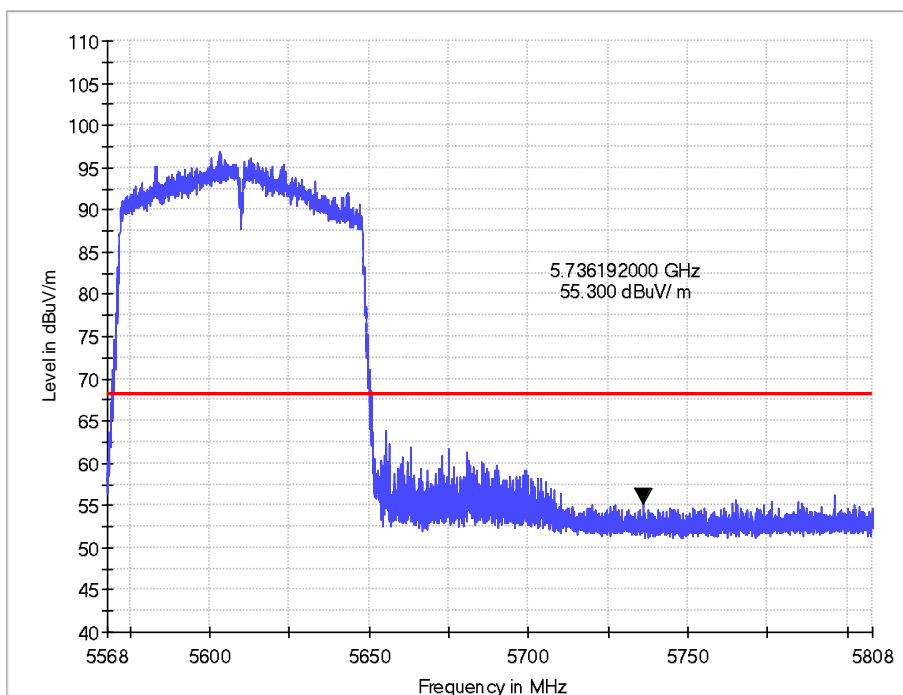
## Band edge

11ac VHT80 IN THE 5.6GHz BAND  
CH122

### Horizontal



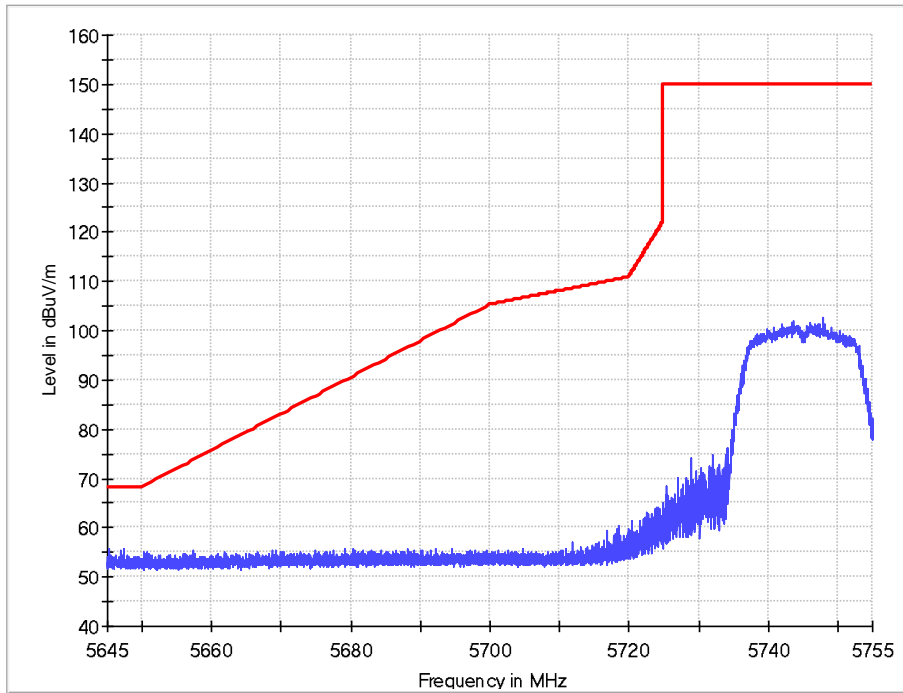
### Vertical



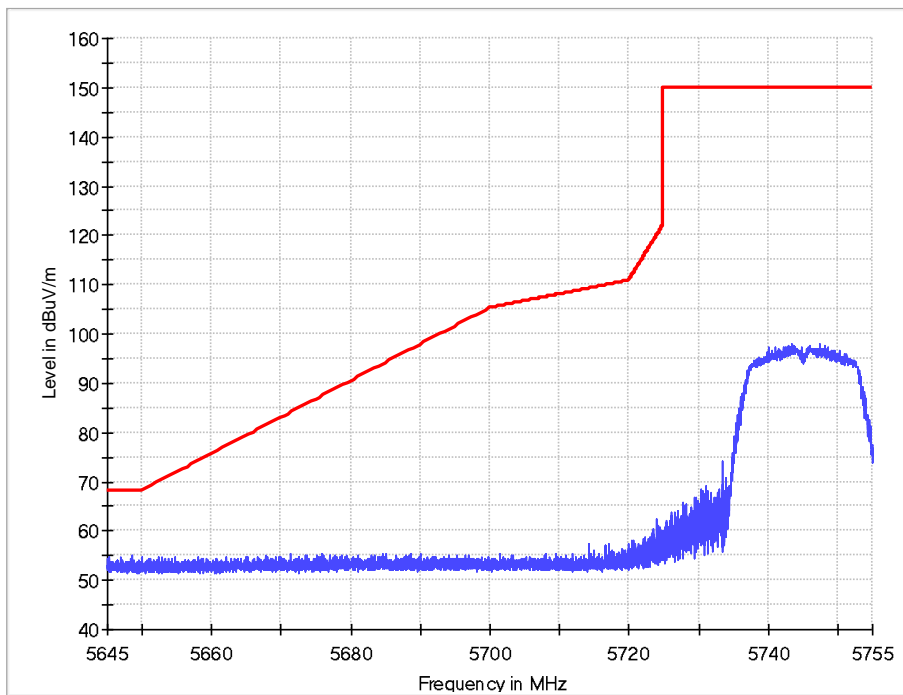
## Band edge

11a IN THE 5.8GHz BAND  
CH149

## Horizontal



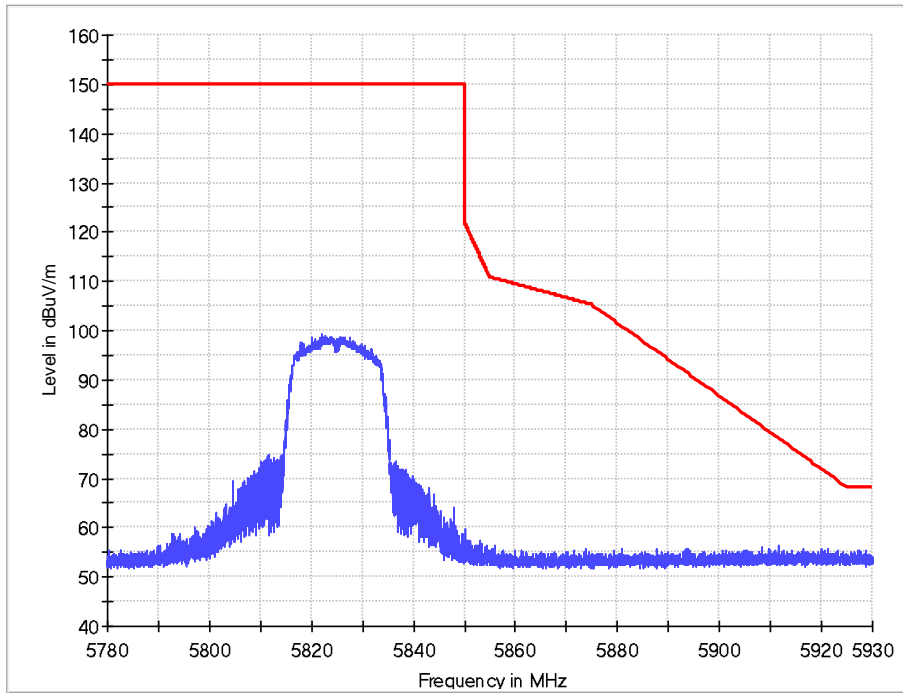
## Vertical



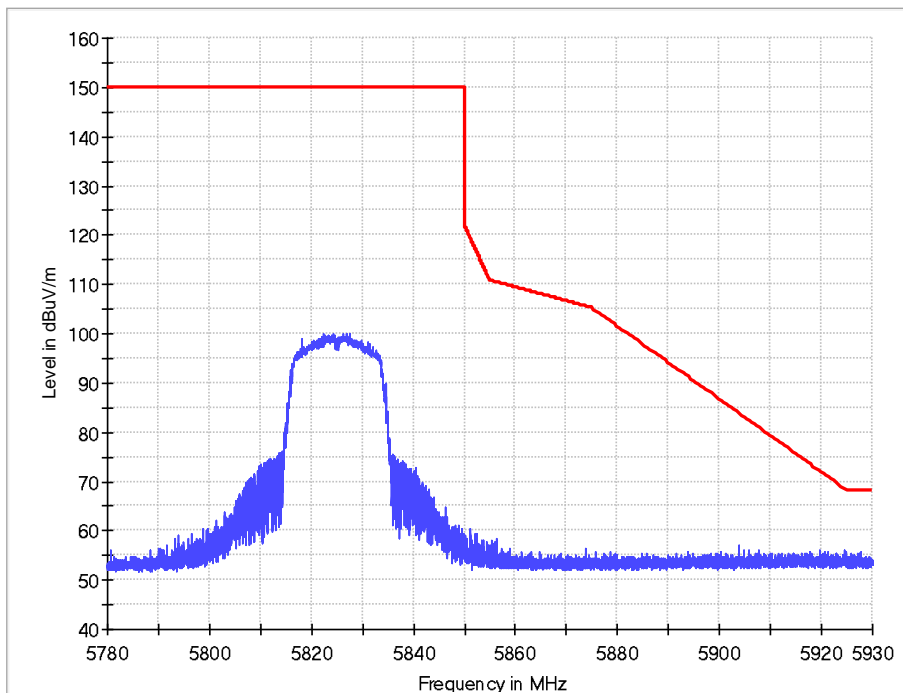
Band edge

11a IN THE 5.8GHz BAND  
CH165

Horizontal



Vertical

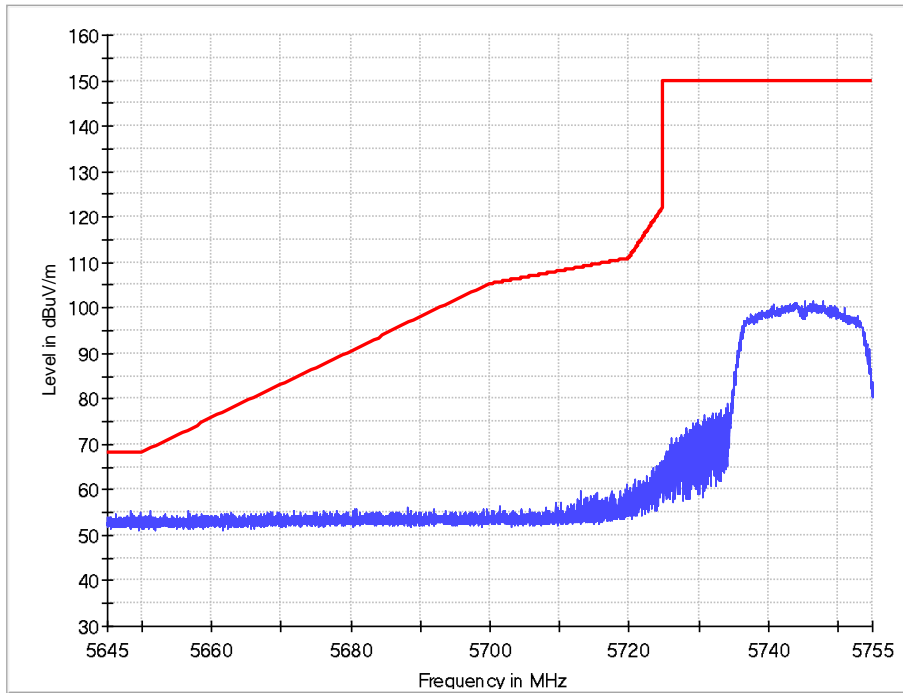




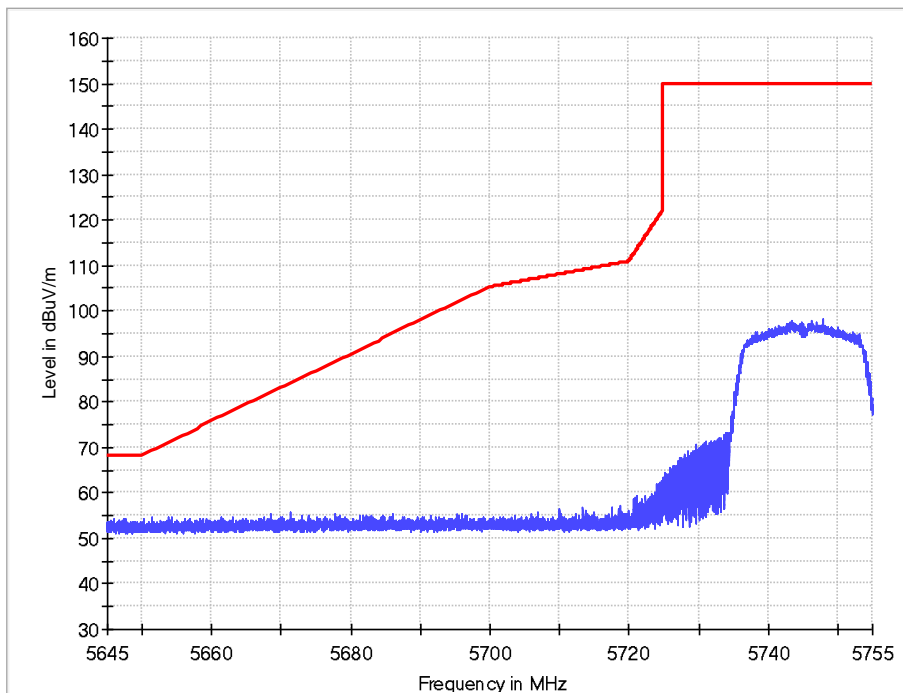
## Band edge

11n HT20 IN THE 5.8GHz BAND  
CH149

## Horizontal



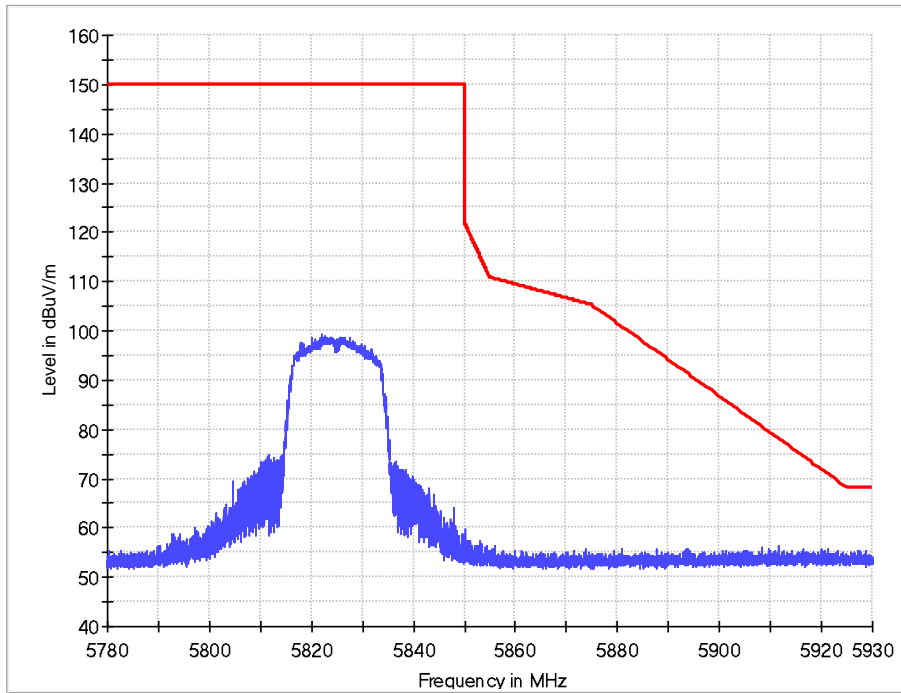
## Vertical



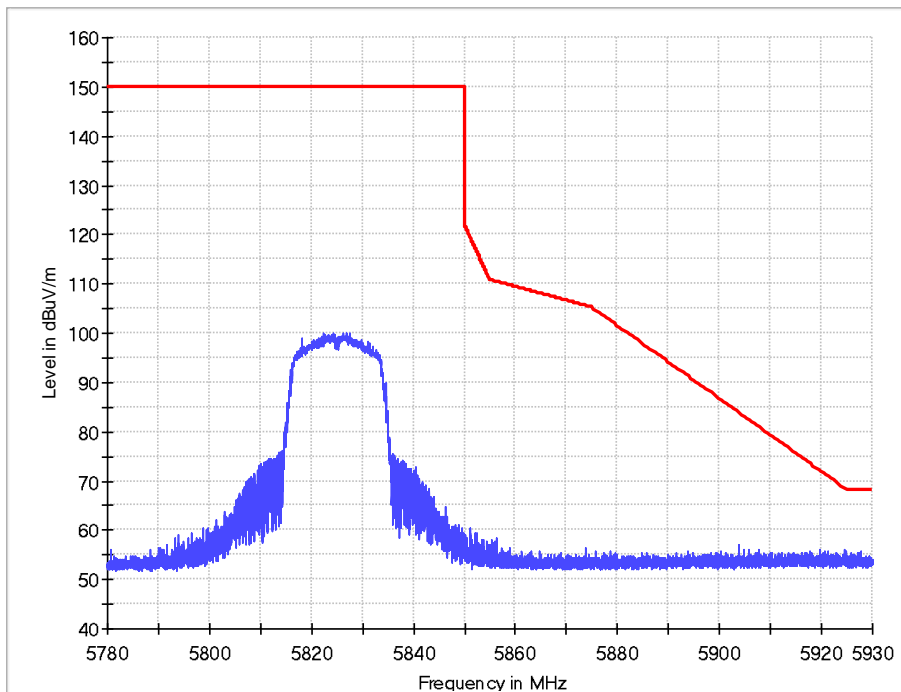
## Band edge

11n HT20 IN THE 5.8GHz BAND  
CH165

## Horizontal



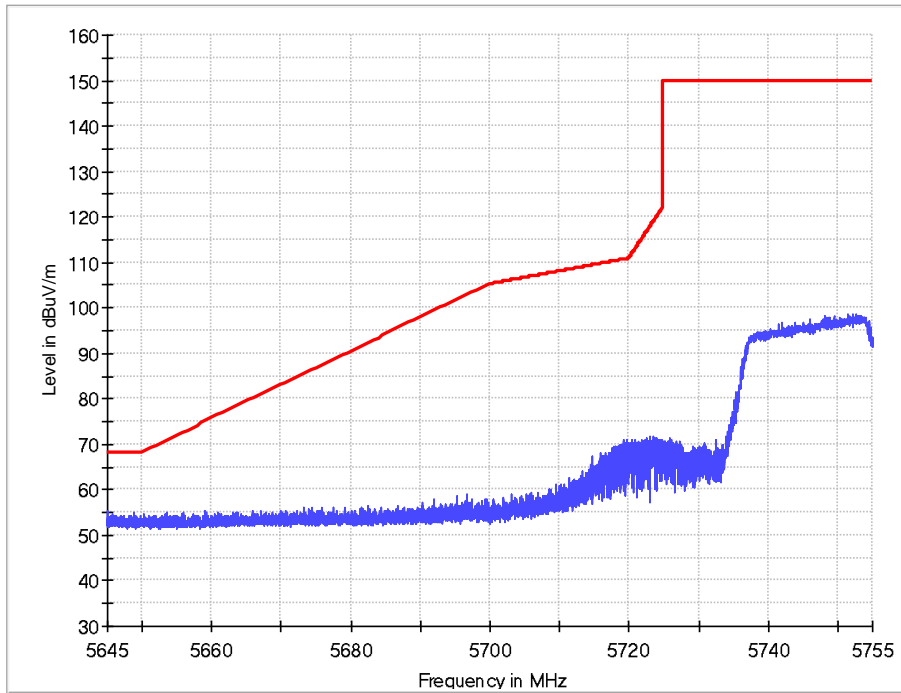
## Vertical



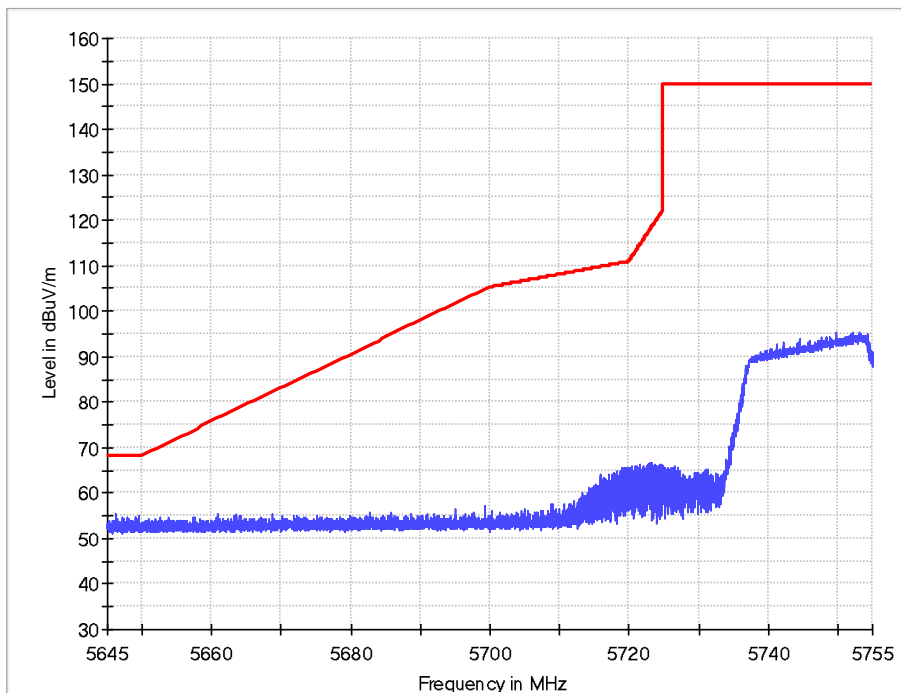
## Band edge

11n HT40 IN THE 5.8GHz BAND  
CH151

## Horizontal



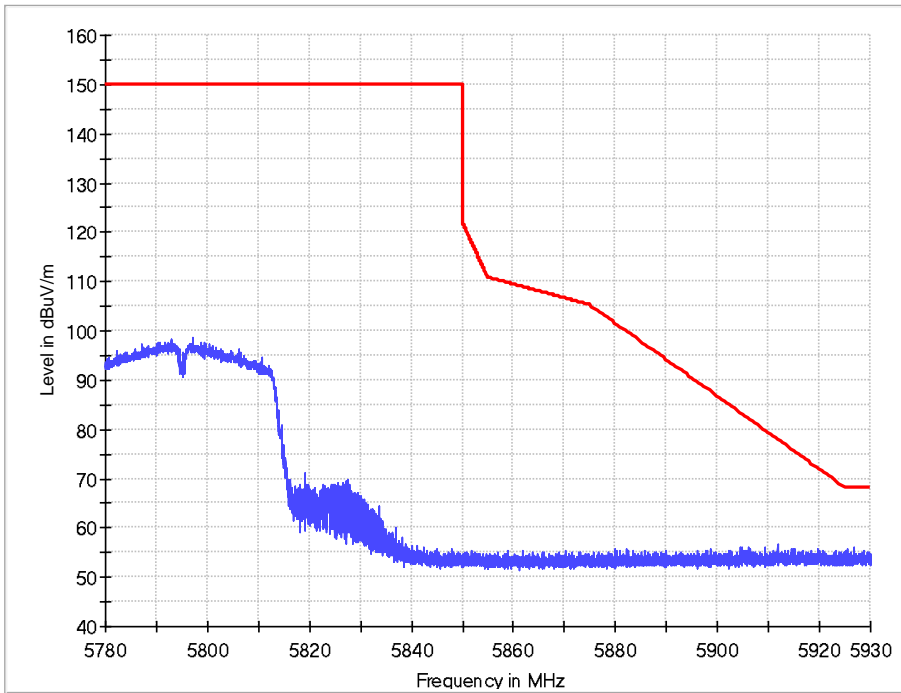
## Vertical



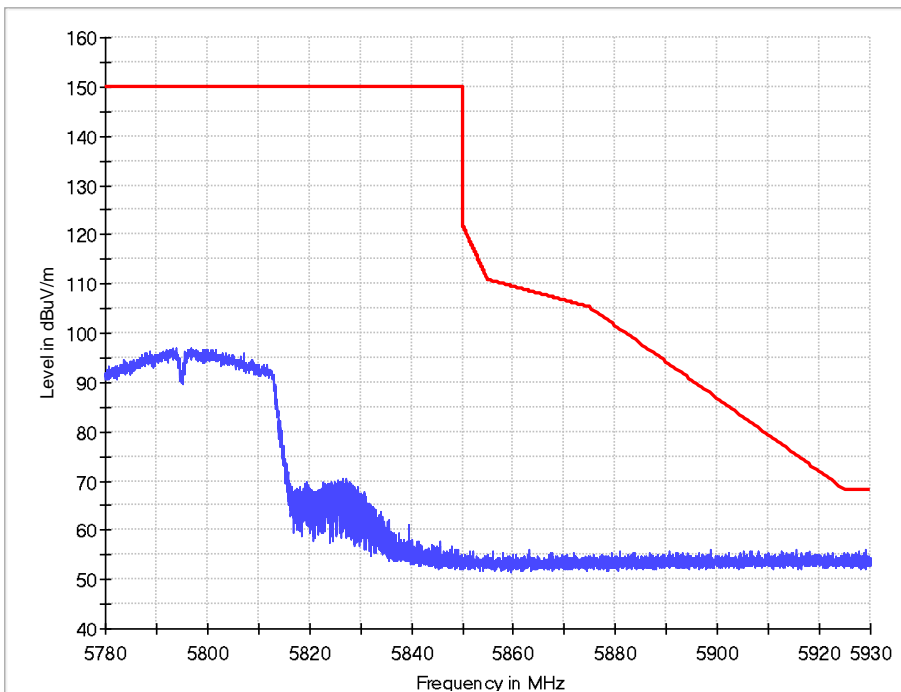
## Band edge

11n HT40 IN THE 5.8GHz BAND  
CH159

## Horizontal



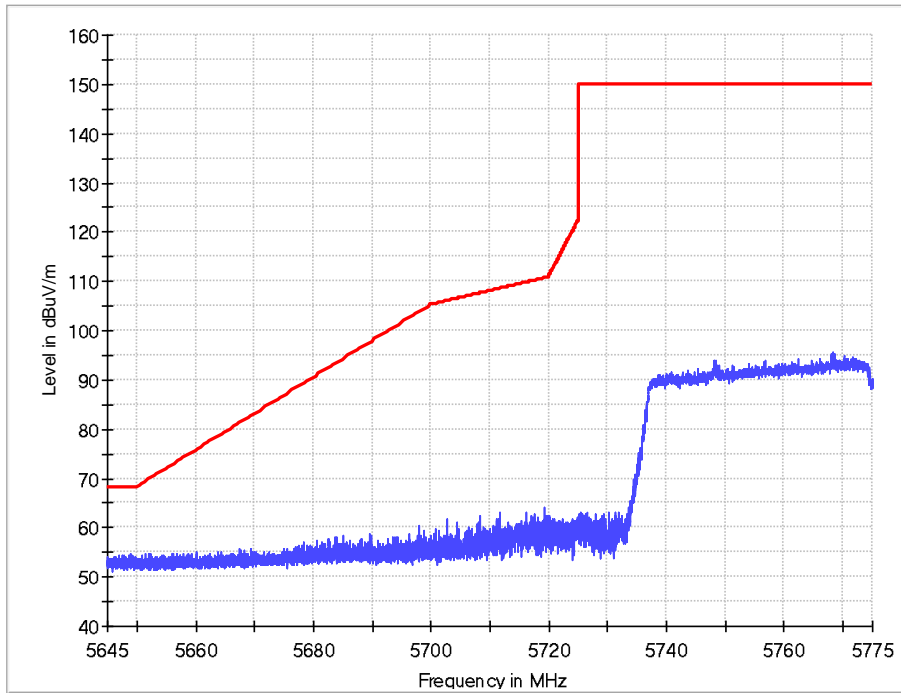
## Vertical



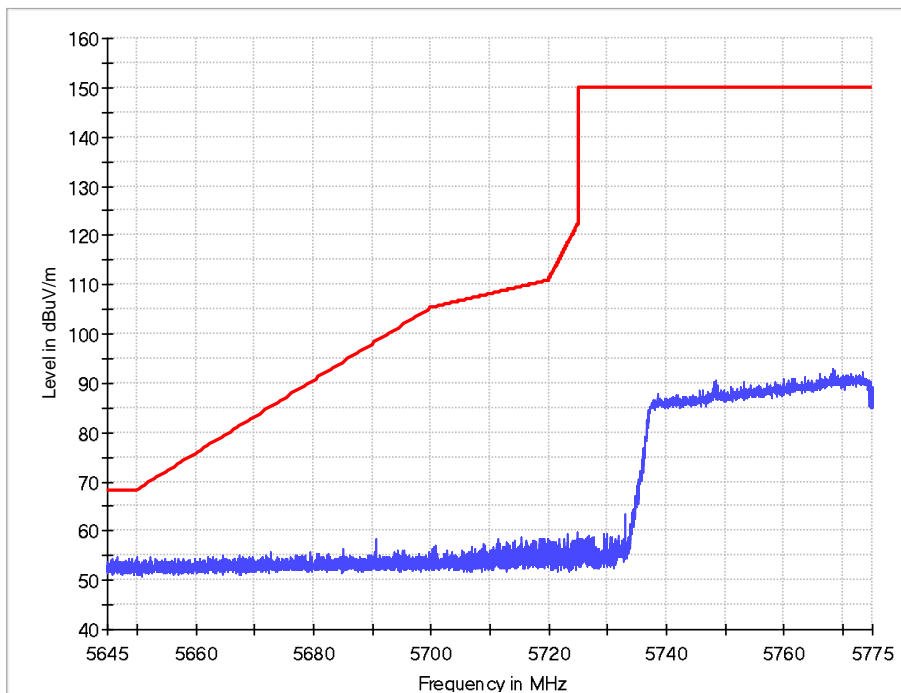
## Band edge

11ac VHT80 IN THE 5.8GHz BAND  
CH155

## Horizontal



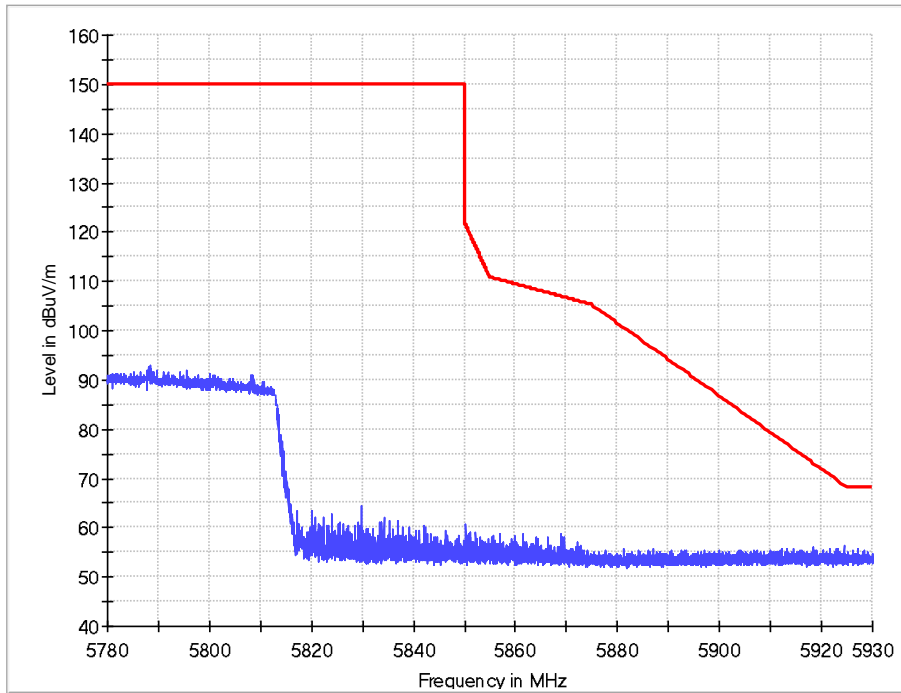
## Vertical



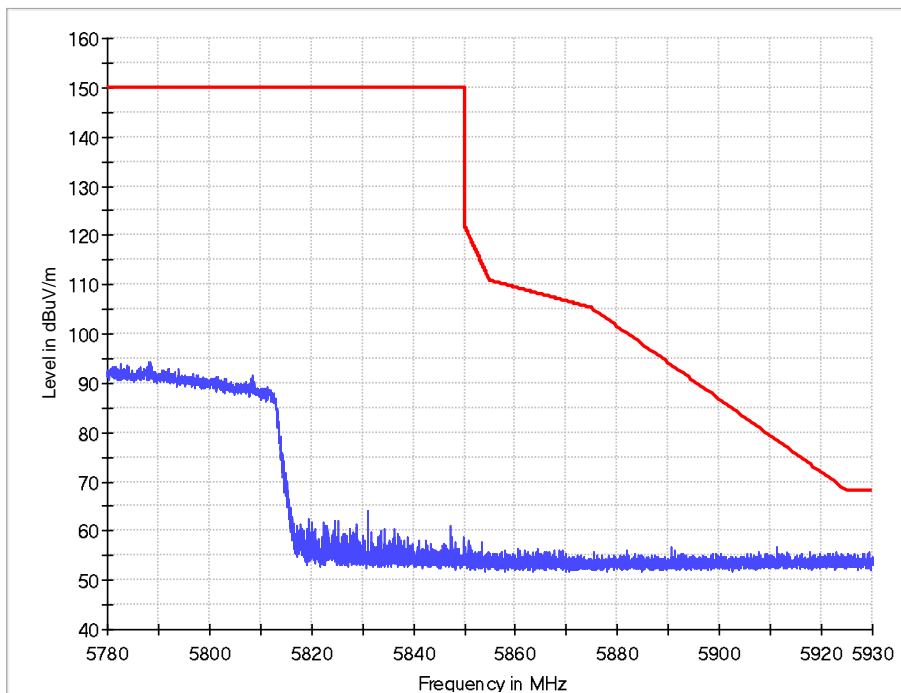
## Band edge

11ac VHT80 IN THE 5.8GHz BAND  
CH155

## Horizontal



## Vertical



# 11. CONDUCTED EMISSION TEST FOR AC POWER PORT

## MEASUREMENT

### 11.1. Test Standard and Limit

Test Standard  
FCC Part 15 15.207  
Test Limit

Table 11 Conducted Disturbance Test Limit

| Frequency     | Maximum RF Line Voltage (dB $\mu$ 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.

### 11.2. 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 from both sides of AC line. According to the requirements of ANSI C63.10-2013. 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 9 kHz.

### 11.3. 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.

### 11.4. Test Data

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

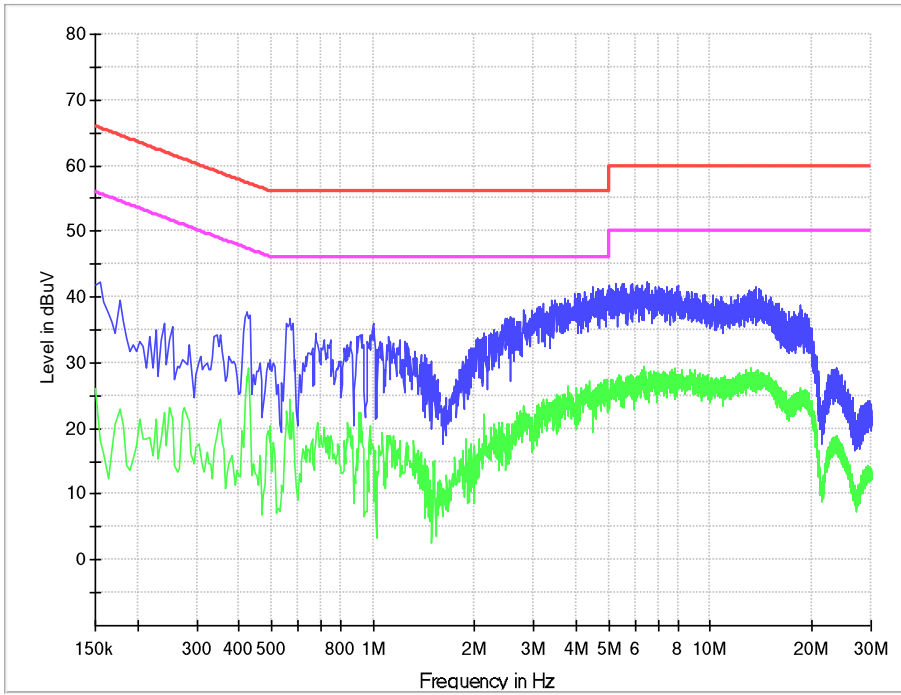
Table 12 Conducted Disturbance Test Data

| Test mode: Charging and Transmitting |                 |                        |                      |                             |                    |                      |                             |                    |
|--------------------------------------|-----------------|------------------------|----------------------|-----------------------------|--------------------|----------------------|-----------------------------|--------------------|
|                                      | Frequency (MHz) | Correction Factor (dB) | Quasi-Peak           |                             |                    | Average              |                             |                    |
|                                      |                 |                        | Reading (dB $\mu$ V) | Emission Level (dB $\mu$ V) | Limit (dB $\mu$ V) | Reading (dB $\mu$ V) | Emission Level (dB $\mu$ V) | Limit (dB $\mu$ V) |
| Line                                 | 0.159           | 9.7                    | 32.3                 | 42                          | 65.5               | 17.5                 | 27.2                        | 55.5               |
|                                      | 0.613           | 9.8                    | 24.8                 | 34.6                        | 56                 | 9.0                  | 18.8                        | 46                 |
|                                      | 1.032           | 9.8                    | 22.3                 | 32.1                        | 56                 | 6.3                  | 16.1                        | 46                 |
|                                      | 4.861           | 9.9                    | 27.1                 | 37.0                        | 56                 | 15.1                 | 25                          | 46                 |
|                                      | 5.000           | 10.0                   | 27.9                 | 37.9                        | 56                 | 14.7                 | 24.7                        | 46                 |
|                                      | 5.590           | 10.0                   | 28.1                 | 38.1                        | 60                 | 15.9                 | 25.9                        | 50                 |
| Neutral                              | 0.159           | 9.7                    | 32.1                 | 41.8                        | 65.5               | 18.5                 | 28.2                        | 55.5               |
|                                      | 0.348           | 9.7                    | 24.1                 | 33.8                        | 59.0               | 15.3                 | 25                          | 49.0               |
|                                      | 1.068           | 9.8                    | 20.7                 | 30.5                        | 56                 | 14.0                 | 23.8                        | 46                 |
|                                      | 4.465           | 9.9                    | 20.1                 | 30.0                        | 56                 | 12.2                 | 22.1                        | 46                 |
|                                      | 5.320           | 10.0                   | 19.7                 | 29.7                        | 60                 | 10.5                 | 20.5                        | 50                 |
|                                      | 19.387          | 9.9                    | 25.5                 | 35.4                        | 60                 | 18.5                 | 28.4                        | 50                 |

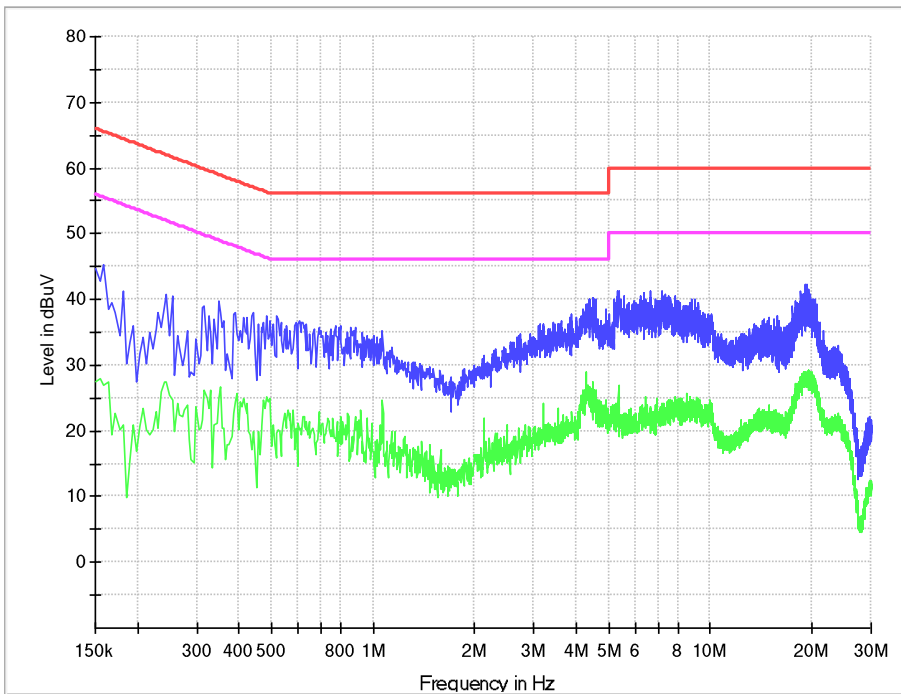
REMARKS: 1. Emission level(dBuV)=Read Value(dBuV) + Correction Factor(dB)  
 2. Correction Factor(dB) =LISN Factor (dB) + Cable Factor (dB)+Limiter Factor(dB)  
 3. The other emission levels were very low against the limit.



# Line



# Neutral



## 12. ANTENNA REQUIREMENTS

15.203 requirements:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirements:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### 12.1. Antenna Connector

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

### 12.2. Antenna Gain

The antenna gain of EUT is less than 6 dBi.

**END OF REPORT**