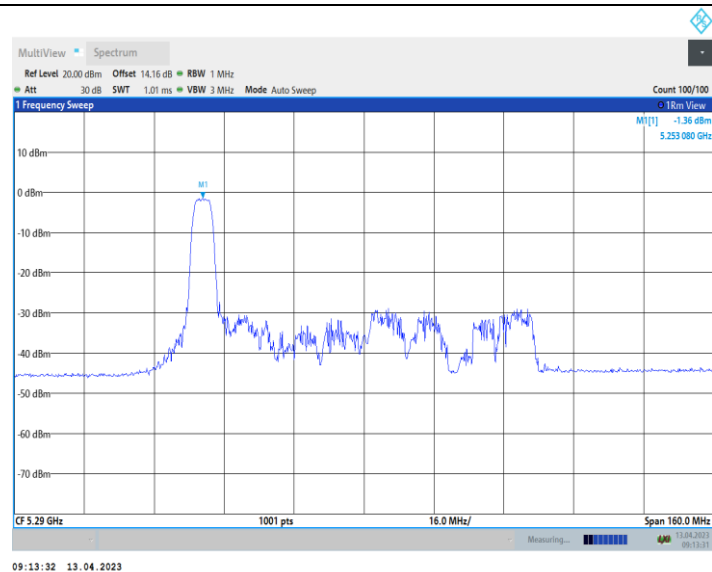
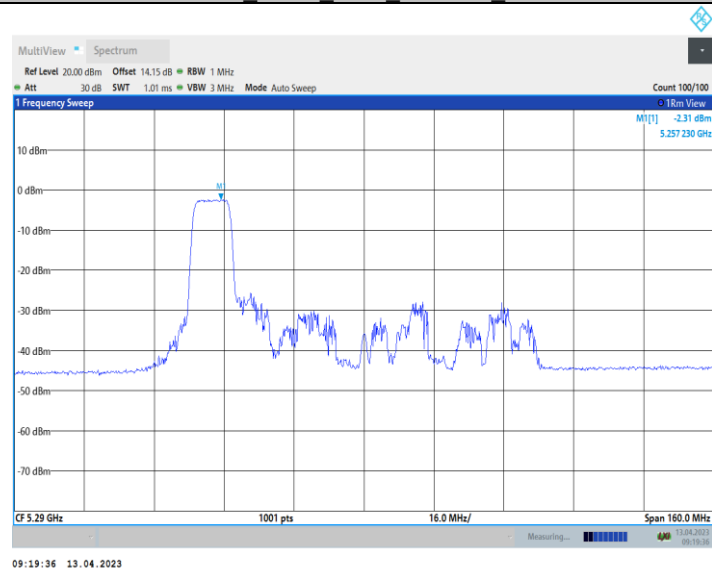
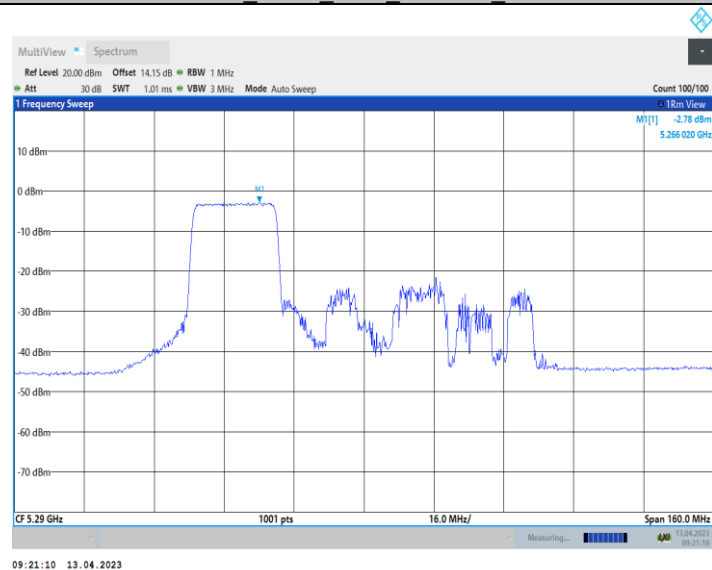




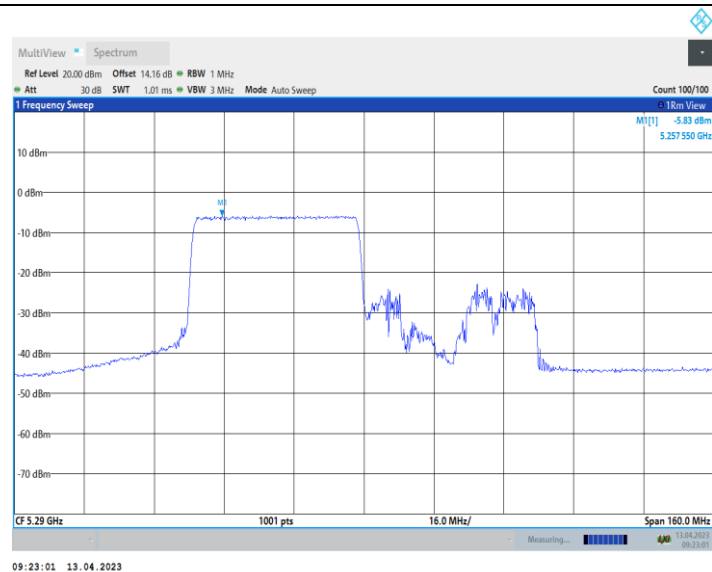
11AX80\_Ant10\_5290\_106Tone\_RU53



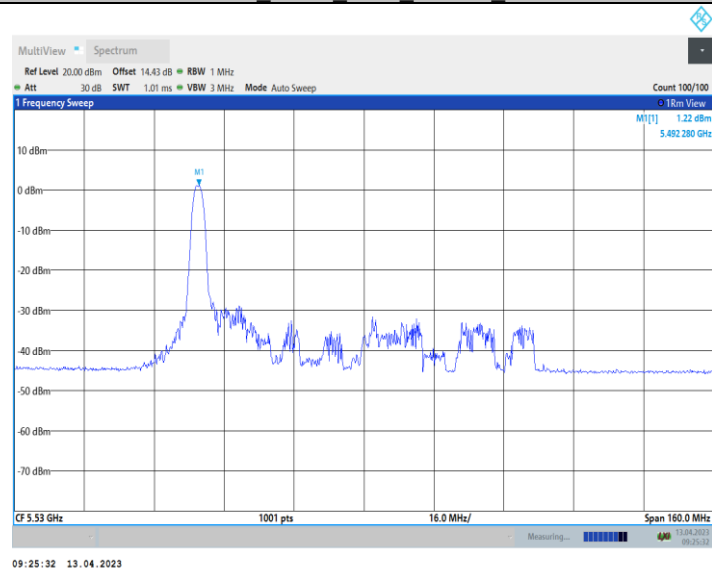
11AX80\_Ant10\_5290\_242Tone\_RU61



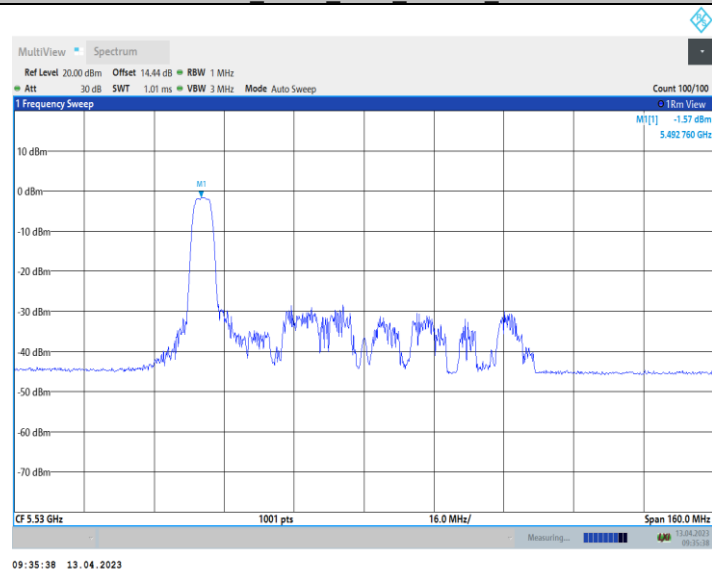
11AX80\_Ant10\_5290\_484Tone\_RU65



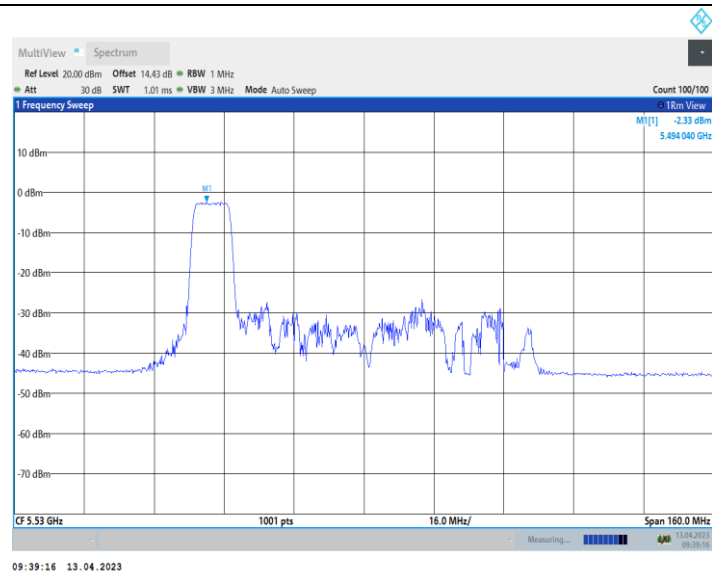
11AX80\_Ant10\_5530\_26Tone\_RU0



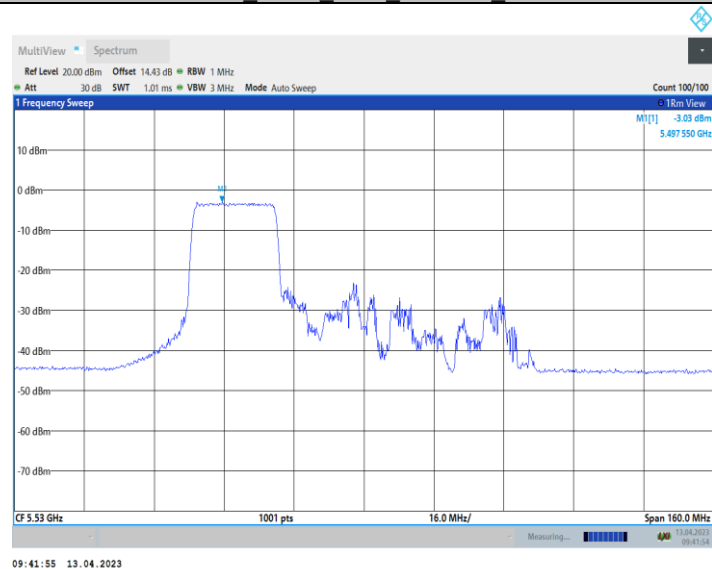
11AX80\_Ant10\_5530\_52Tone\_RU37



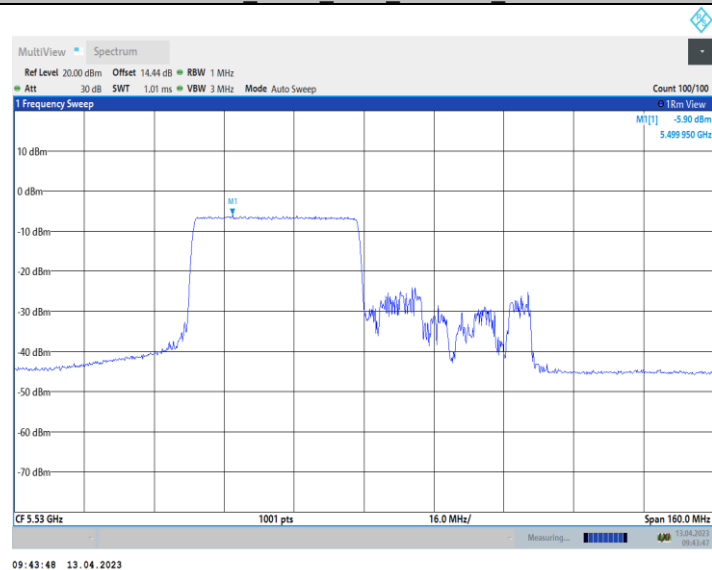
11AX80\_Ant10\_5530\_106Tone\_RU53



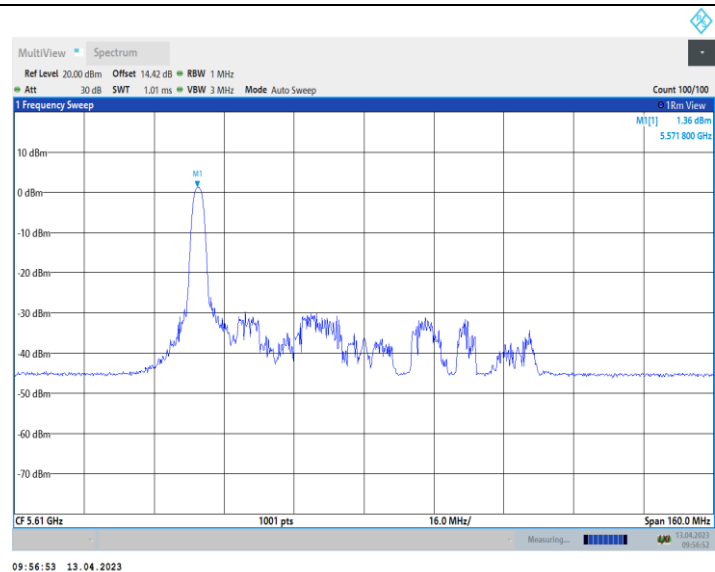
11AX80\_Ant10\_5530\_242Tone\_RU61



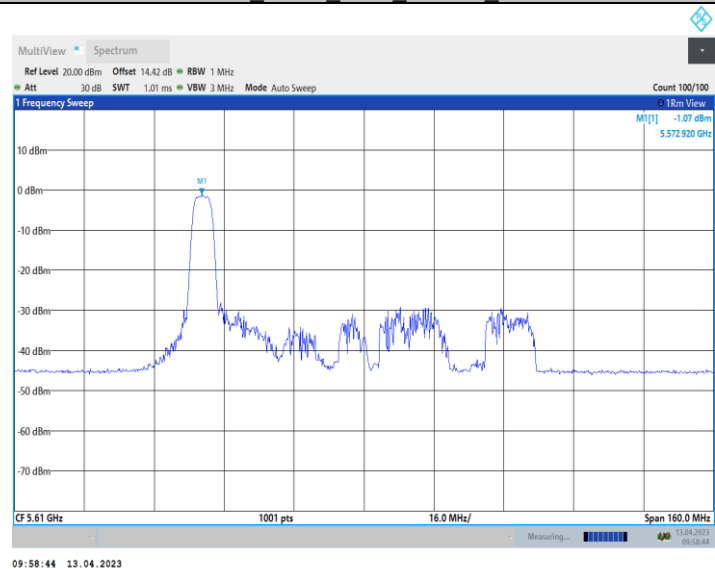
11AX80\_Ant10\_5530\_484Tone\_RU65



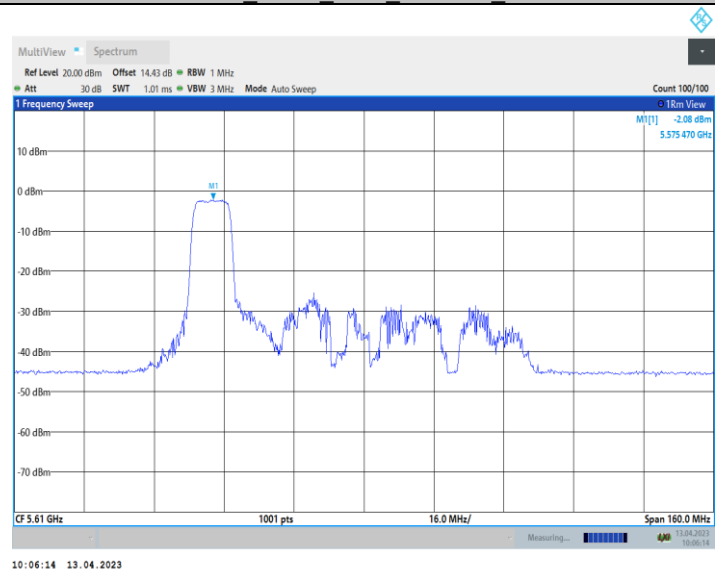
11AX80\_Ant10\_5610\_26Tone\_RU0



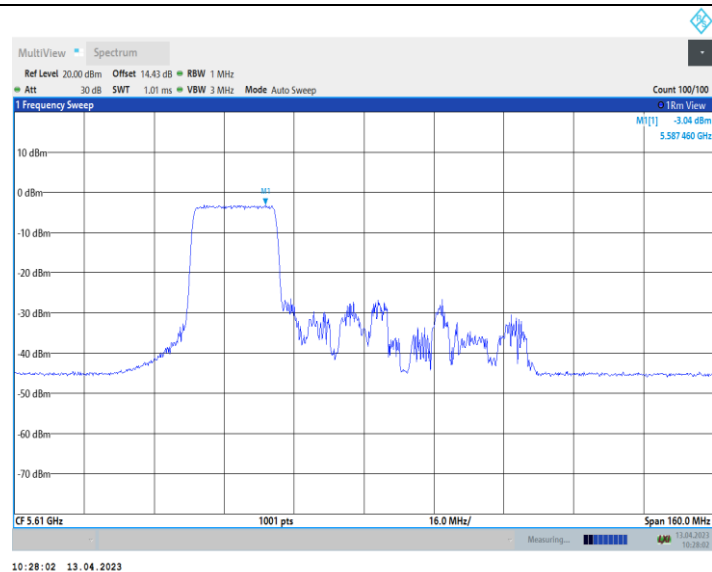
11AX80 Ant10 5610 52Tone RU37



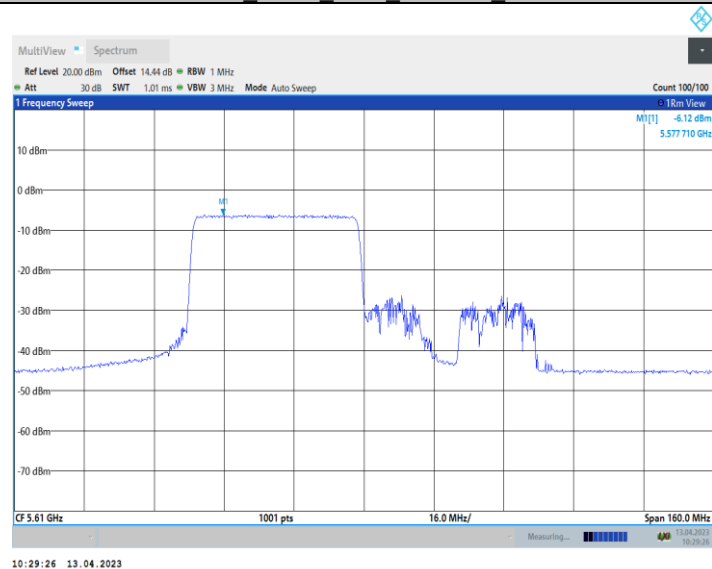
11AX80 Ant10 5610 106Tone RU53



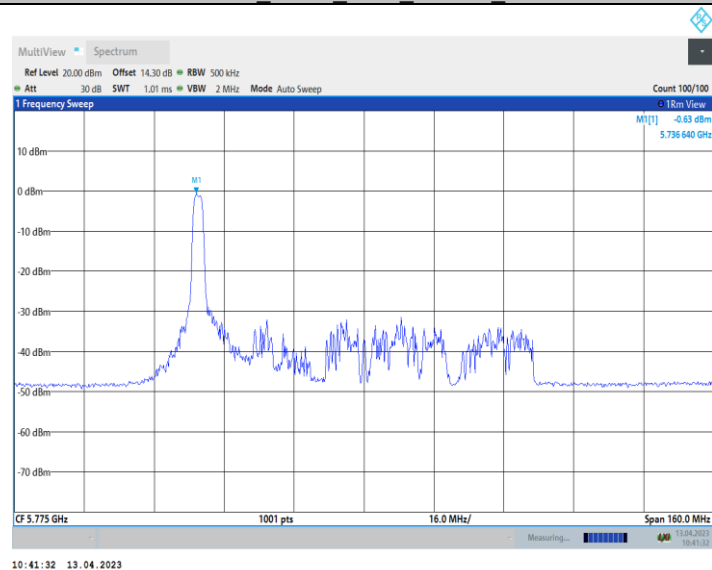
11AX80 Ant10 5610 242Tone RU61



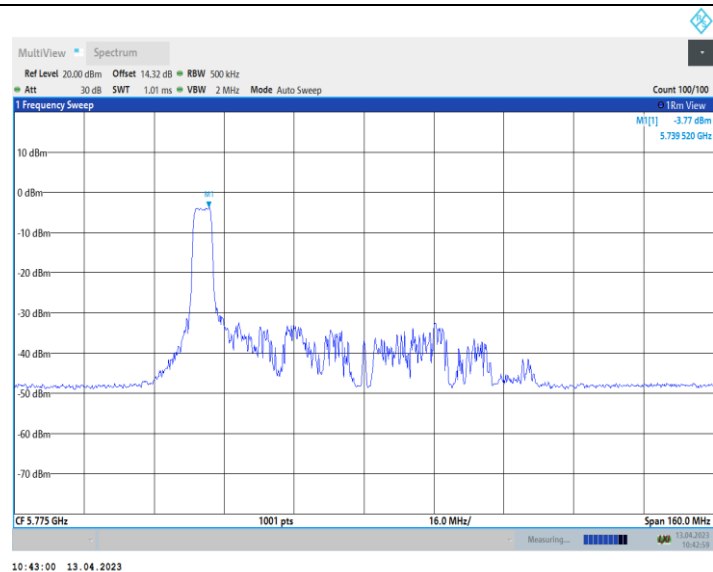
11AX80\_Ant10\_5610\_484Tone\_RU65



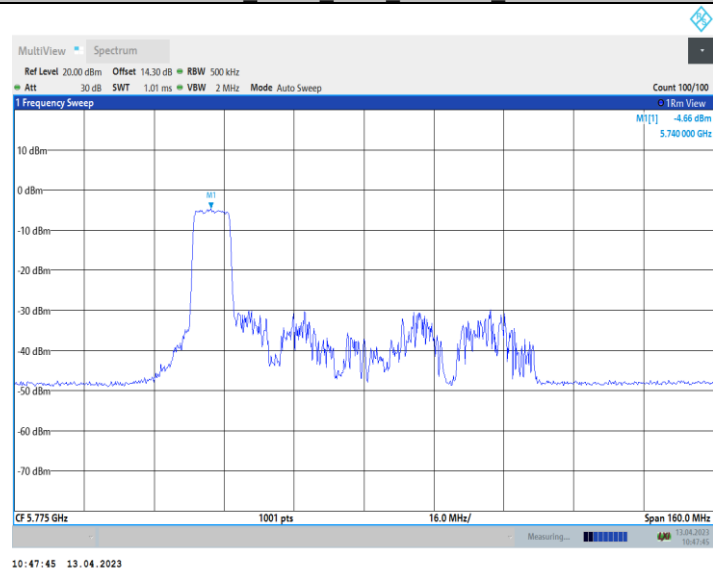
11AX80\_Ant10\_5775\_26Tone\_RU0



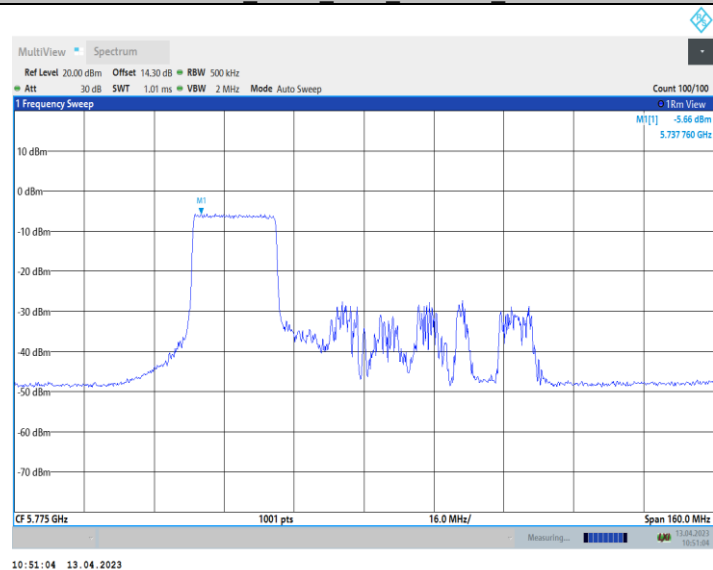
11AX80\_Ant10\_5775\_52Tone\_RU37



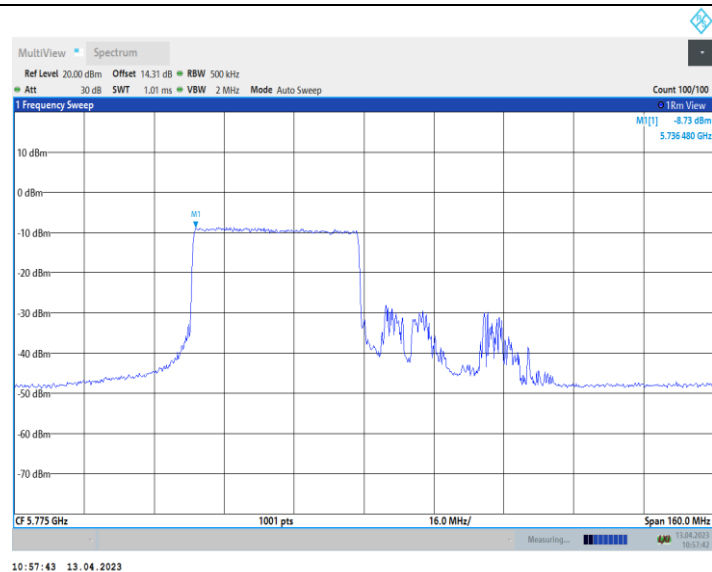
11AX80\_Ant10\_5775\_106Tone\_RU53



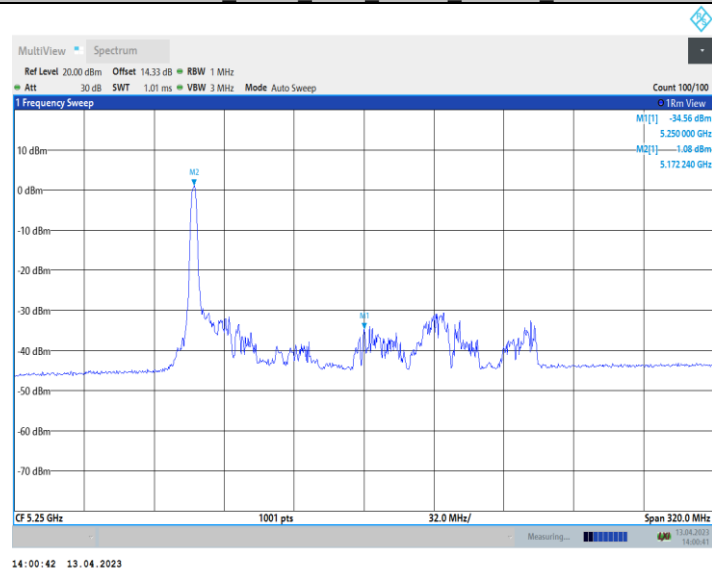
11AX80\_Ant10\_5775\_242Tone\_RU61



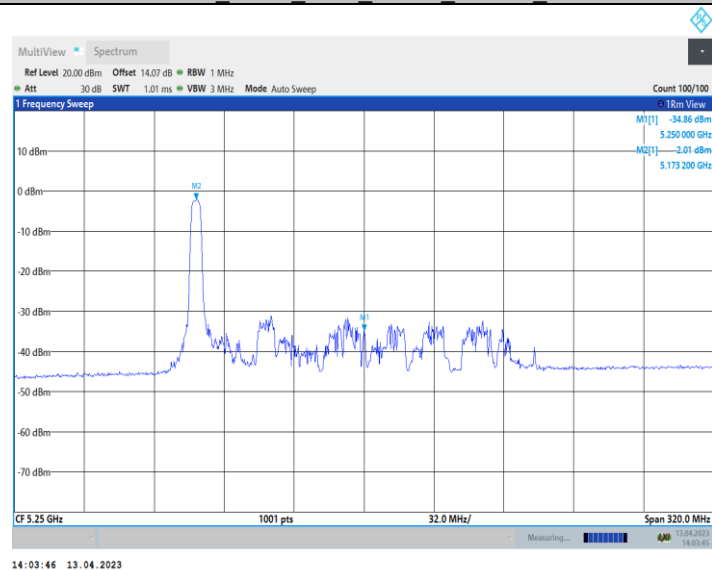
11AX80\_Ant10\_5775\_484Tone\_RU65



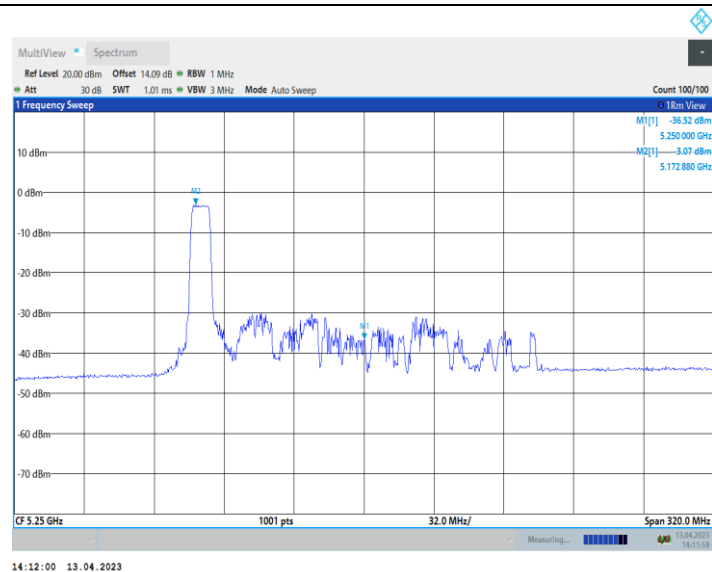
11AX160 Ant10 5250 UNII-1 26Tone RU0



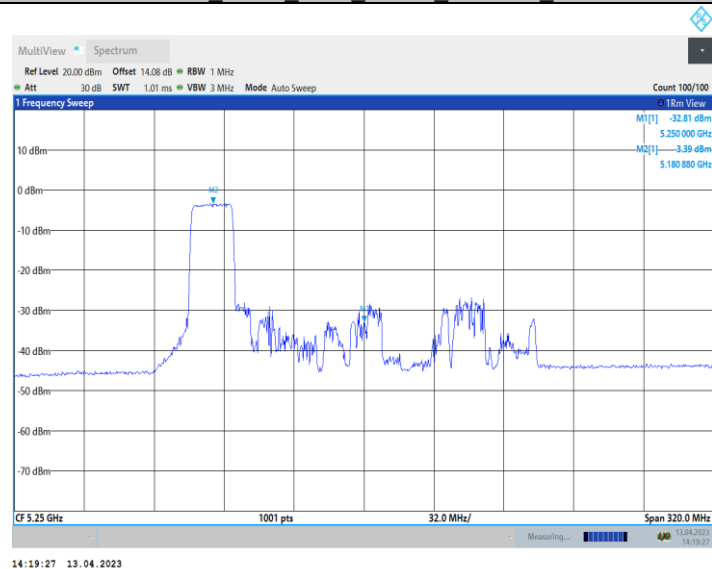
11AX160 Ant10 5250 UNII-1 52Tone RU37



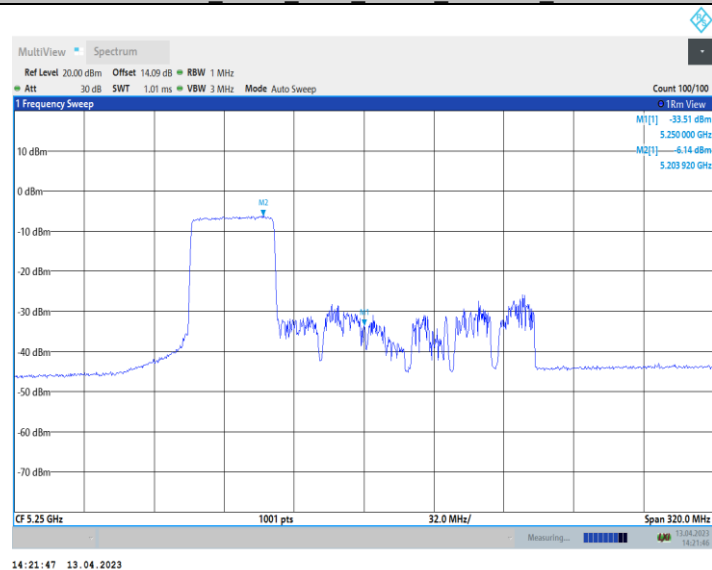
11AX160 Ant10 5250 UNII-1 106Tone RU53



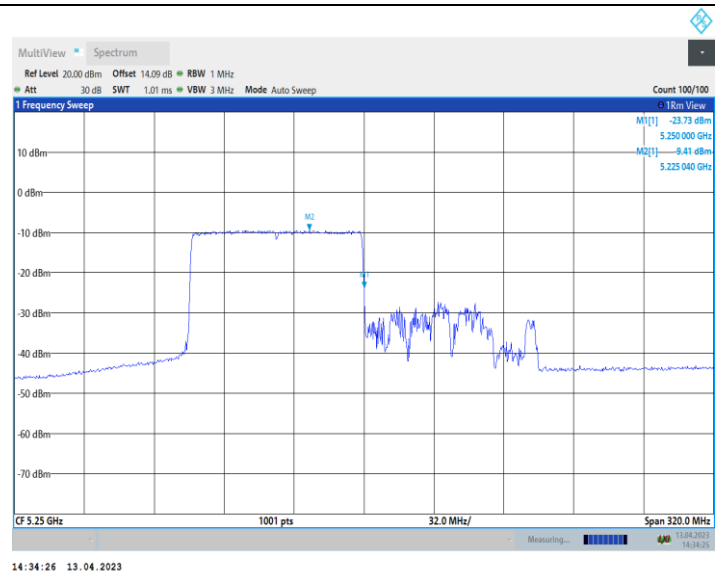
11AX160\_Ant10\_5250\_UNII-1\_242Tone\_RU61



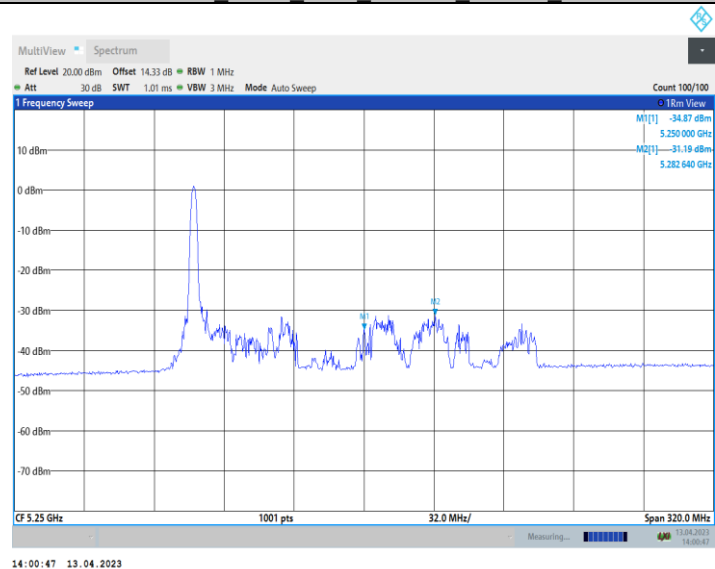
11AX160\_Ant10\_5250\_UNII-1\_484Tone\_RU65



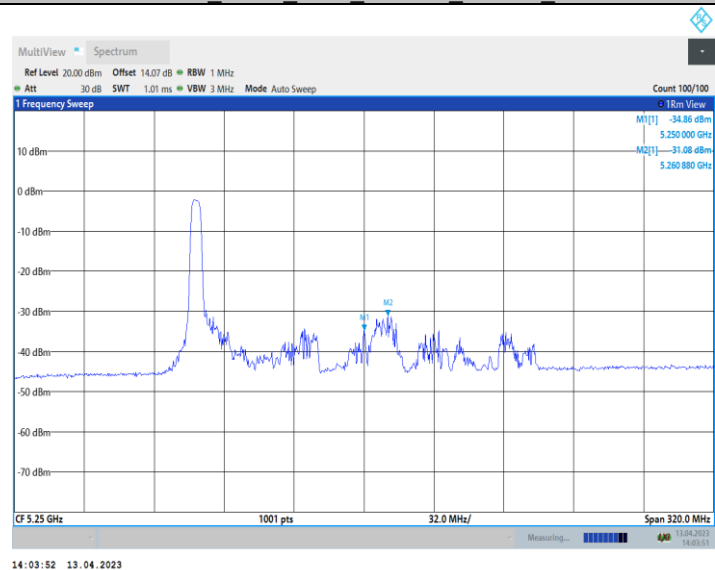
11AX160\_Ant10\_5250\_UNII-1\_996Tone\_RU67



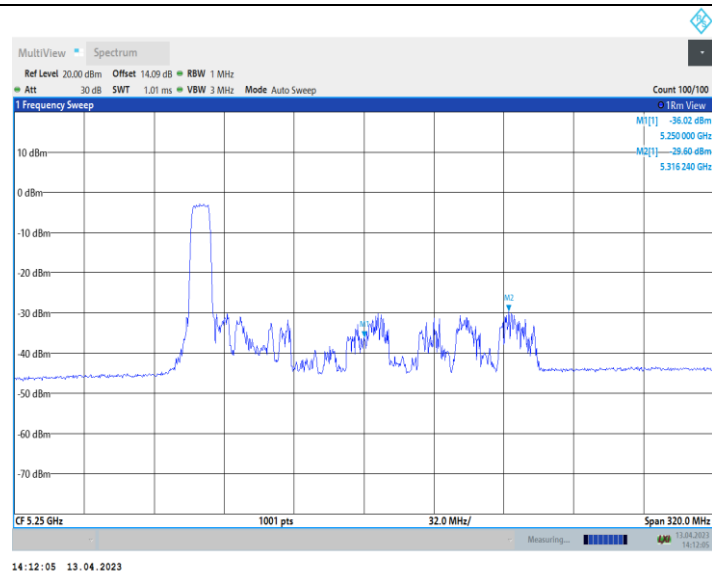
11AX160 Ant10 5250 UNII-2A 26Tone RU0



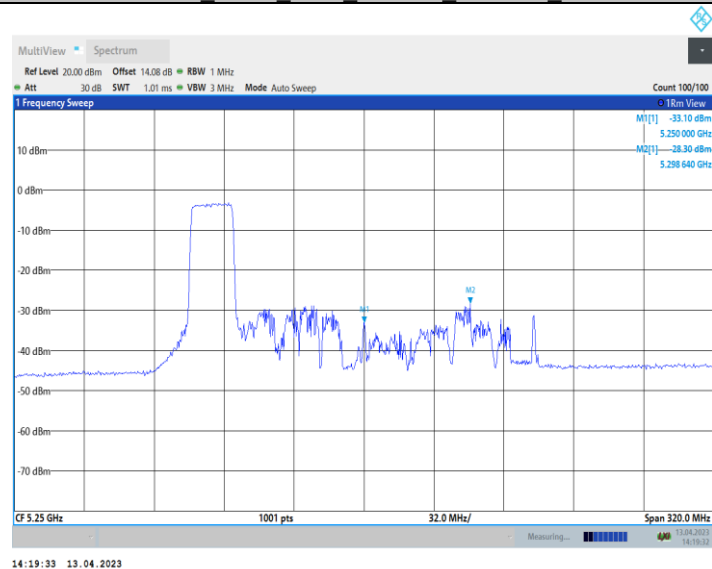
11AX160 Ant10 5250 UNII-2A 52Tone RU37



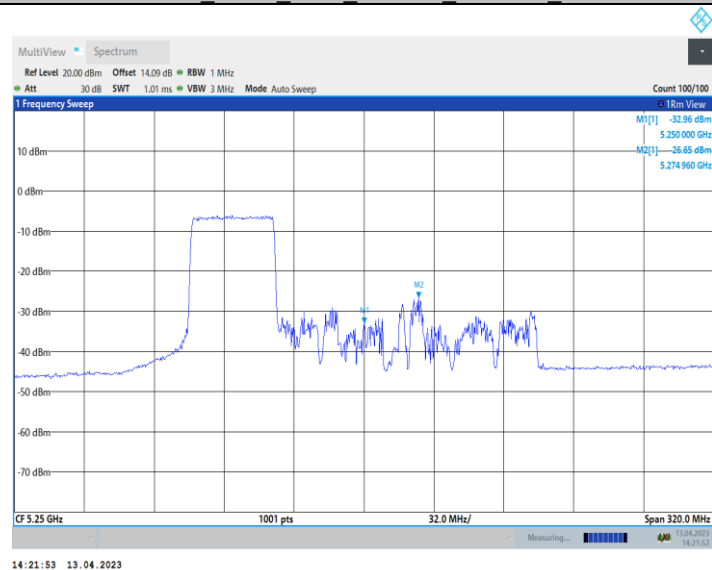
11AX160 Ant10 5250 UNII-2A 106Tone RU53



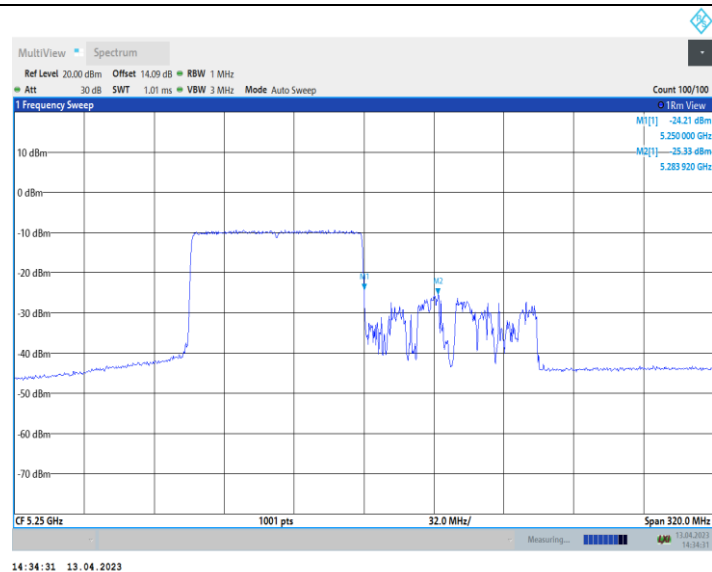
11AX160\_Ant10\_5250\_UNII-2A\_242Tone\_RU61



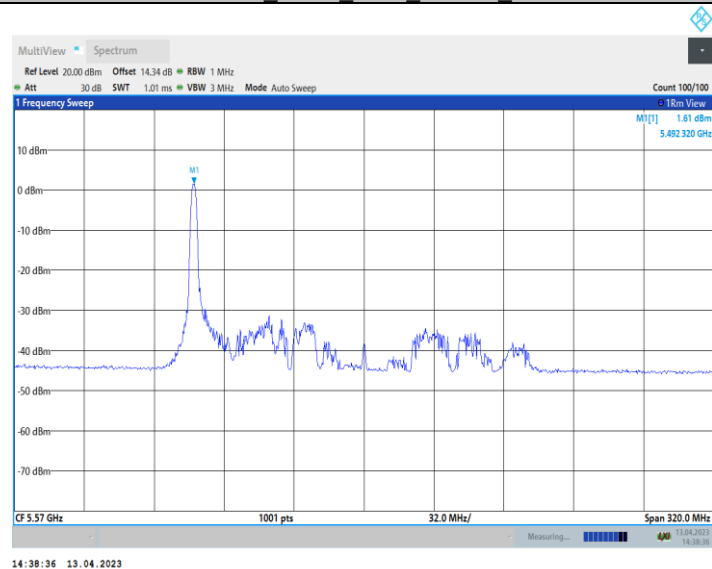
11AX160\_Ant10\_5250\_UNII-2A\_484Tone\_RU65



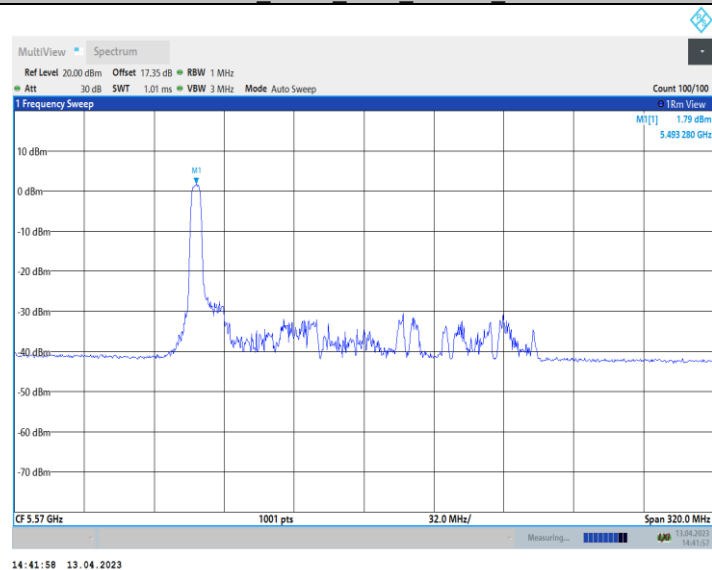
11AX160\_Ant10\_5250\_UNII-2A\_996Tone\_RU67



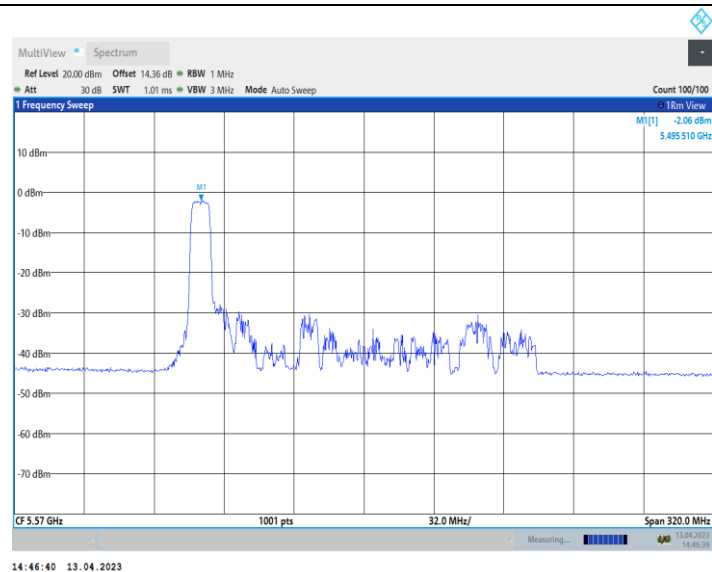
11AX160\_Ant10\_5570\_26Tone\_RU0



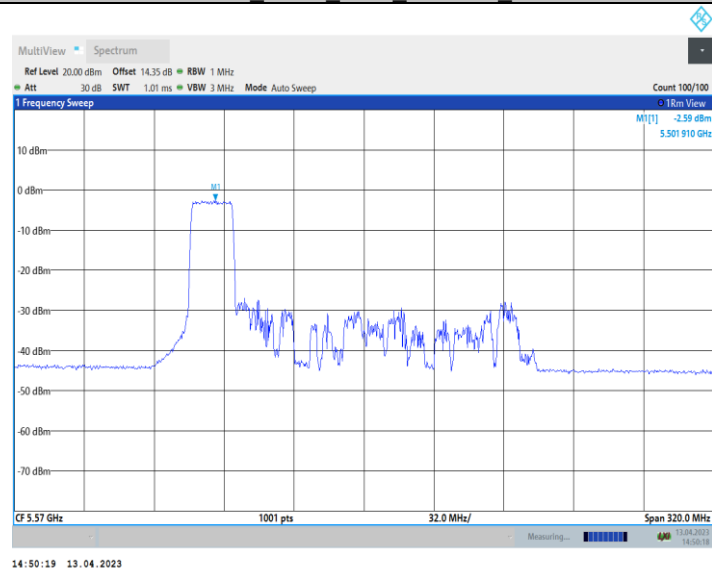
11AX160\_Ant10\_5570\_52Tone\_RU37



11AX160\_Ant10\_5570\_106Tone\_RU53



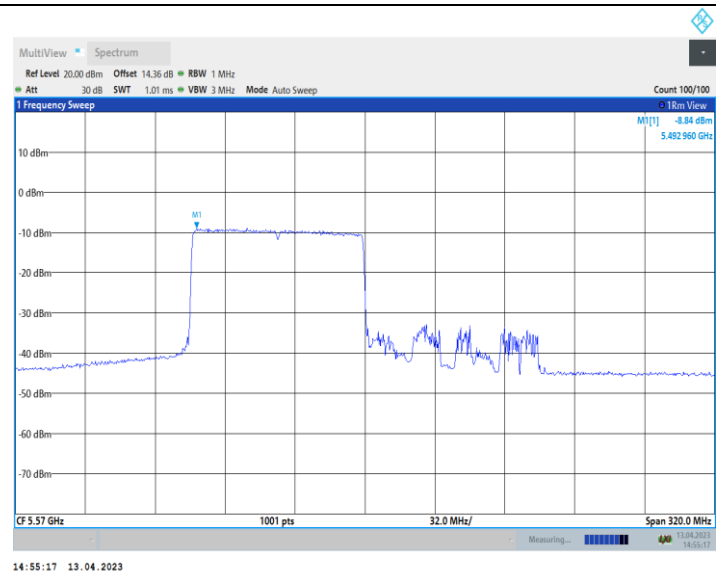
11AX160\_Ant10\_5570\_242Tone\_RU61



11AX160\_Ant10\_5570\_484Tone\_RU65



11AX160\_Ant10\_5570\_996Tone\_RU67





## 10. RADIATED BANDEDGE AND SPURIOUS MEASUREMENT

### 10.1. LIMITS OF Radiated Bandedge and Spurious Measurement

FCC Part 15.205 and 15.209

| Frequency Range (MHz) | Field Strength Limit (uV/m) at 3 m | Field Strength Limit (dBuV/m) at 3 m |
|-----------------------|------------------------------------|--------------------------------------|
| 30 - 88               | 100                                | 40                                   |
| 88 - 216              | 150                                | 43.5                                 |
| 216 - 960             | 200                                | 46                                   |
| Above 960             | 500                                | 54                                   |

FCC Part 15.407(b)

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

### 10.2. TEST PROCEDURE

1. The testing follows the guidelines in ANSI C63.10-2013.
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. For measurement below 1GHz, the EUT was placed on a turntable with 0.8 meter, above ground. For measurement above 1 GHz, test at FAR, the EUT is placed on a non-conductive table, which is 1.5 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: Antenna Factor + Cable Loss + Read Level - Preamp Factor = 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  $f < 1$  GHz; VBW  $\geq$  RBW; Sweep = auto; Detector function = peak; Trace = max hold;
  - (3) Set RBW = 1 MHz, VBW= 3MHz for  $f > 1$  GHz for peak measurement.

Set RBW = 1 MHz, and VBW= 1/T (on time) for average measurement.

### 10.3.TEST DATA

9 kHz-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.

Table 10 Radiated Emission Test Data 9k Hz-30MHz

| Frequency (MHz) | Cable Loss +preamp (dB) | Antenna Factor (dB) | Reading (dBμV/m) | Level (dBμV/m) | Polarity (Horizontal/ Vertical) | Limit (dBμV/m) | Margin (dB) | Note |
|-----------------|-------------------------|---------------------|------------------|----------------|---------------------------------|----------------|-------------|------|
| --              | --                      | --                  | --               | --             | --                              | --             | --          | --   |
| --              | --                      | --                  | --               | --             | --                              | --             | --          | --   |
| --              | --                      | --                  | --               | --             | --                              | --             | --          | --   |
| --              | --                      | --                  | --               | --             | --                              | --             | --          | --   |
| --              | --                      | --                  | --               | --             | --                              | --             | --          | --   |
| --              | --                      | --                  | --               | --             | --                              | --             | --          | --   |
| --              | --                      | --                  | --               | --             | --                              | --             | --          | --   |
| --              | --                      | --                  | --               | --             | --                              | --             | --          | --   |

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.

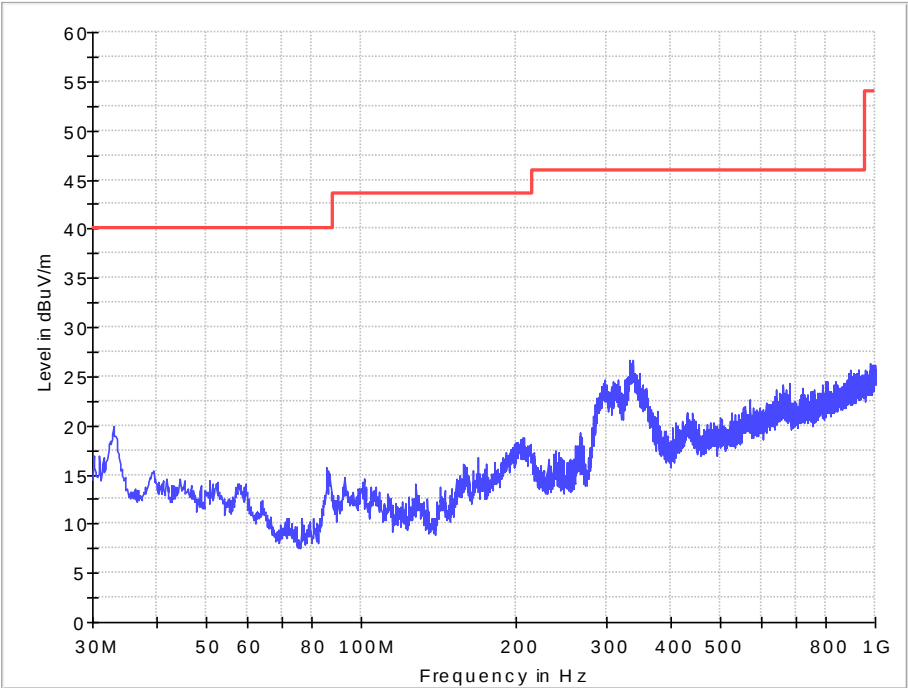
Table 11 Radiated Emission Test Data 30MHz-1GHz

| Frequency (MHz) | Cable Loss +preamp (dB) | Antenna Factor (dB) | Reading (dBμV/m) | Level (dBμV/m) | Polarity (Horizontal/ Vertical) | Limit (dBμV/m) | Margin (dB) | Note |
|-----------------|-------------------------|---------------------|------------------|----------------|---------------------------------|----------------|-------------|------|
| 33.031          | 0.7                     | 12.3                | 18.6             | 31.6           | Vertical                        | 40.0           | 8.4         | QP   |
| 38.973          | 0.7                     | 12.3                | 10.5             | 23.5           | Vertical                        | 40.0           | 16.5        | QP   |
| 57.645          | 0.8                     | 13.0                | 7.7              | 21.5           | Vertical                        | 40.0           | 18.5        | QP   |
| 85.533          | 1.0                     | 10.3                | 9.0              | 20.3           | Vertical                        | 40.0           | 19.7        | QP   |
| 202.539         | 1.6                     | 10.6                | 9.6              | 21.8           | Vertical                        | 43.5           | 21.7        | QP   |
| 296.144         | 2.0                     | 12.7                | 9.2              | 23.9           | Vertical                        | 46.0           | 22.1        | QP   |
| 32.91           | 0.7                     | 12.3                | 6.9              | 19.9           | Horizontal                      | 40             | 20.1        | QP   |
| 85.896          | 1.0                     | 10.3                | 4.5              | 15.8           | Horizontal                      | 40             | 24.2        | QP   |
| 168.831         | 1.5                     | 8.7                 | 6.6              | 16.8           | Horizontal                      | 43.5           | 26.7        | QP   |
| 206.282         | 1.6                     | 10.6                | 6.5              | 18.7           | Horizontal                      | 43.5           | 24.8        | QP   |
| 298.811         | 2.1                     | 12.7                | 9.8              | 24.6           | Horizontal                      | 46             | 21.4        | QP   |
| 337.975         | 2.1                     | 13.3                | 11.2             | 26.6           | Horizontal                      | 46             | 19.4        | QP   |

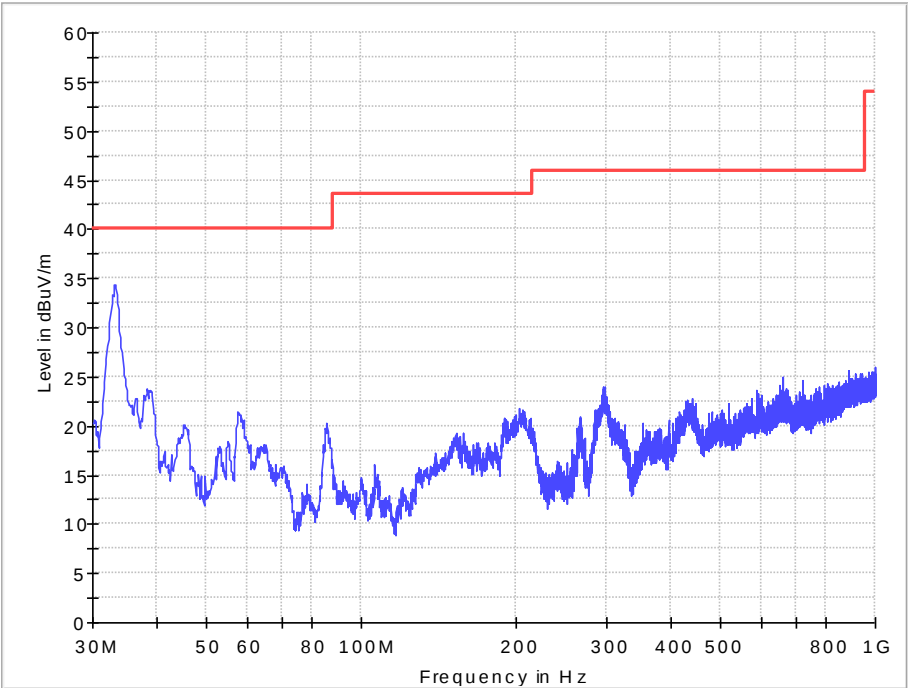
Remark: Emission level (dBμV)=Read Value(dBμV/m) + Antenna Factor(dB)+ Cable Loss +preamp(dB)

30MHz-1GHz

Horizontal



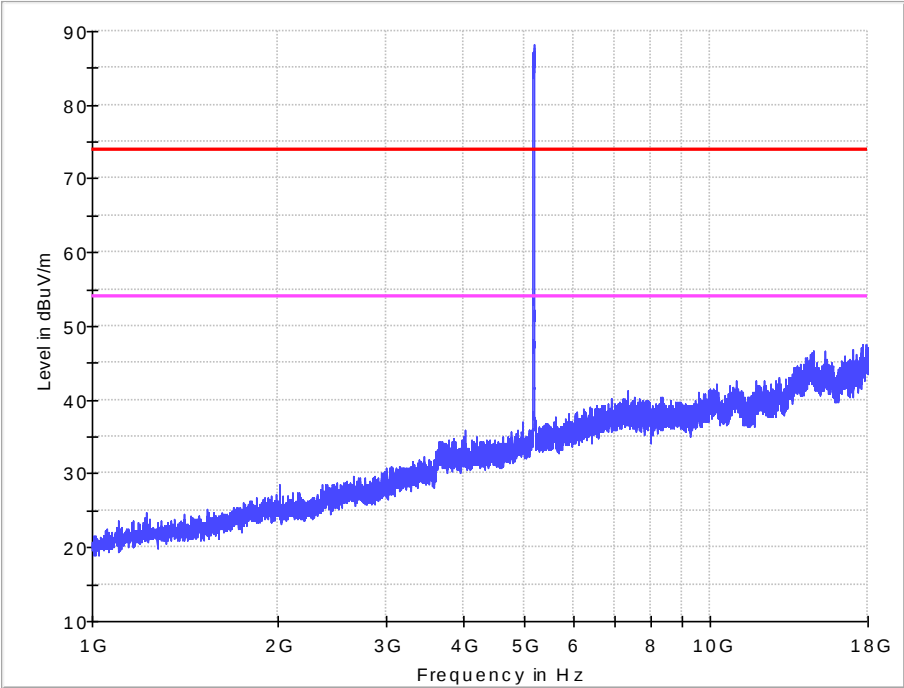
Vertical



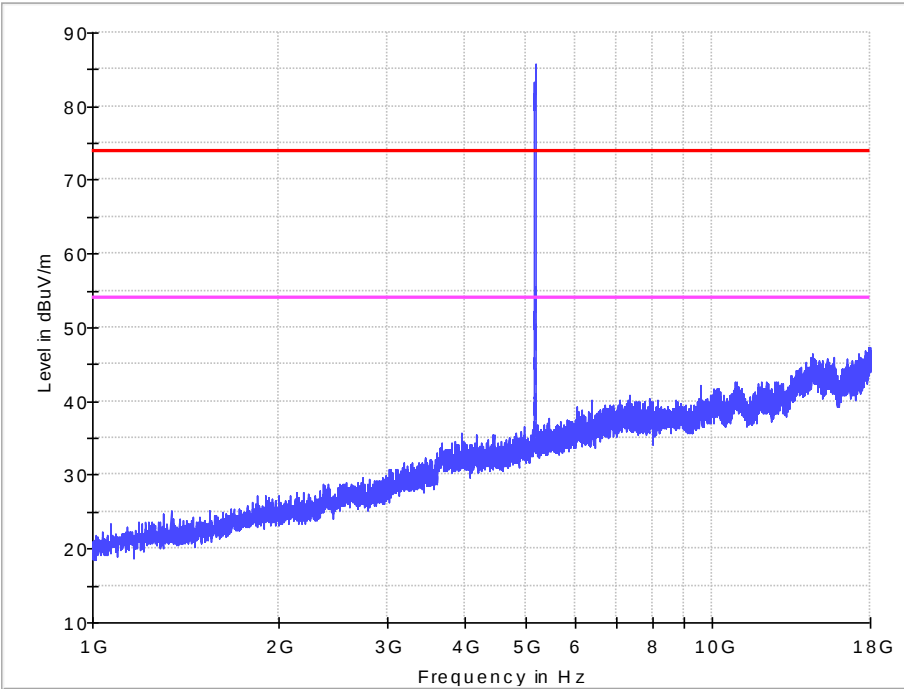
1-18G

11a IN THE 5.2GHz BAND  
CH36

Horizontal



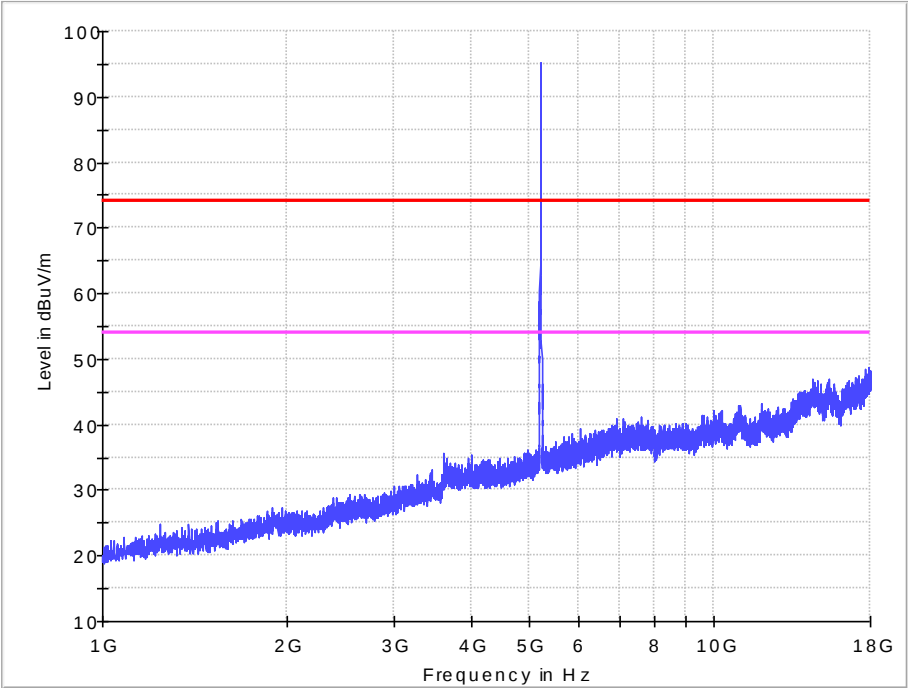
Vertical



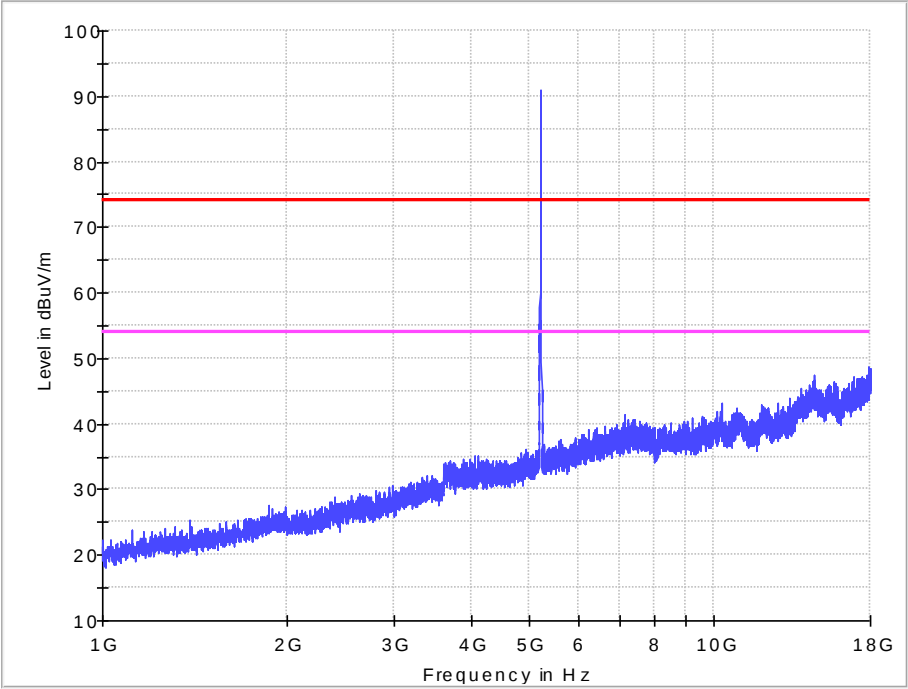
1-18G

11a IN THE 5.2GHz BAND  
CH40

Horizontal



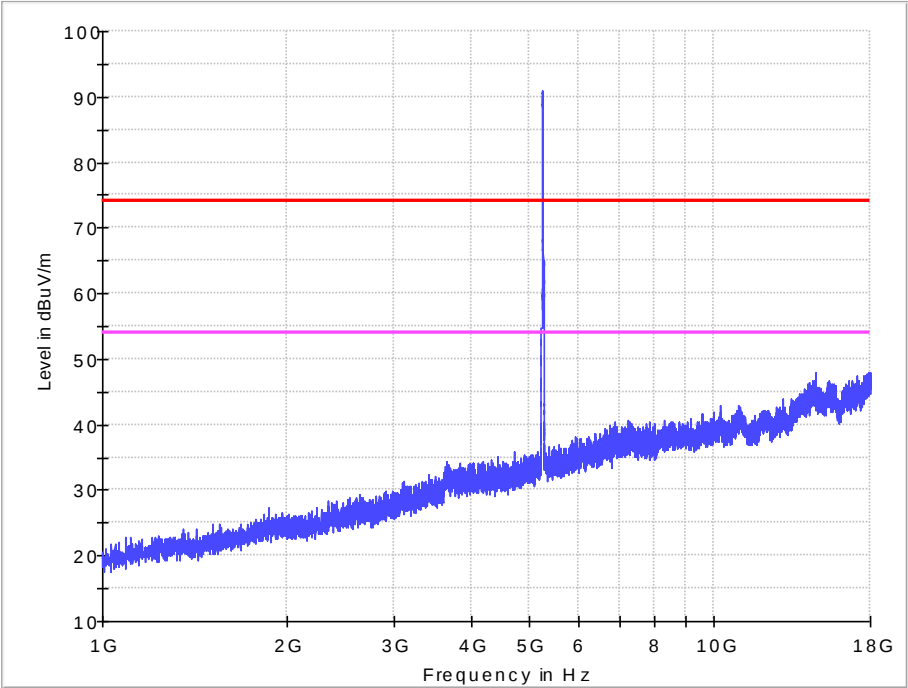
Vertical



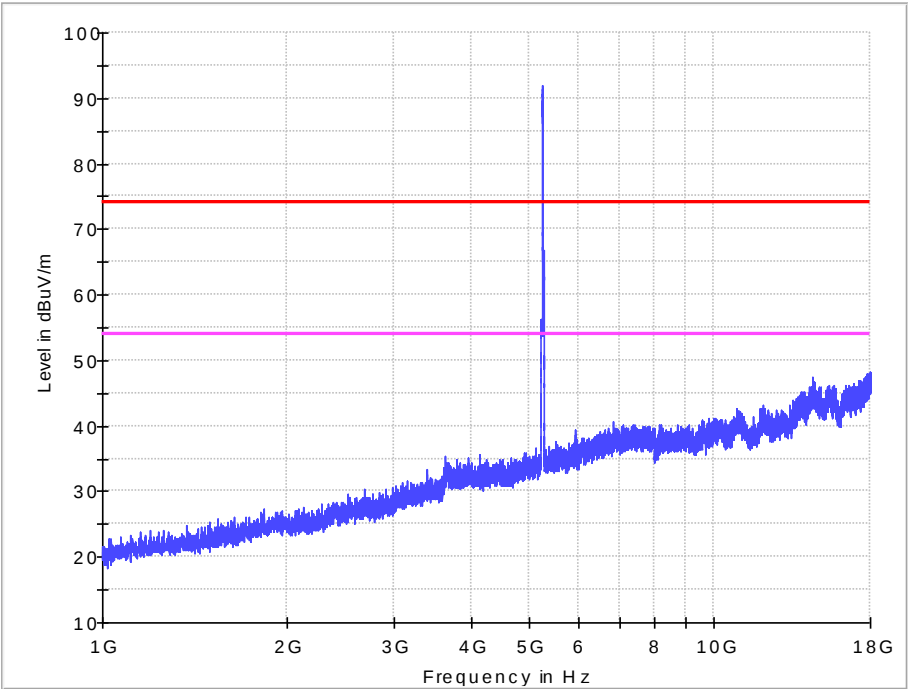
1-18G

11a IN THE 5.2GHz BAND  
CH48

Horizontal



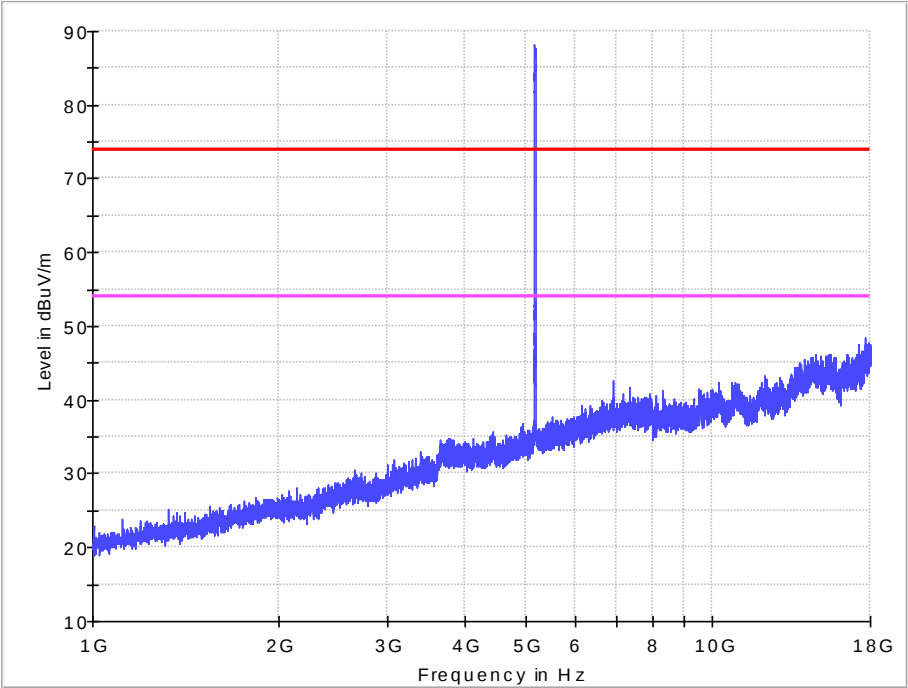
Vertical



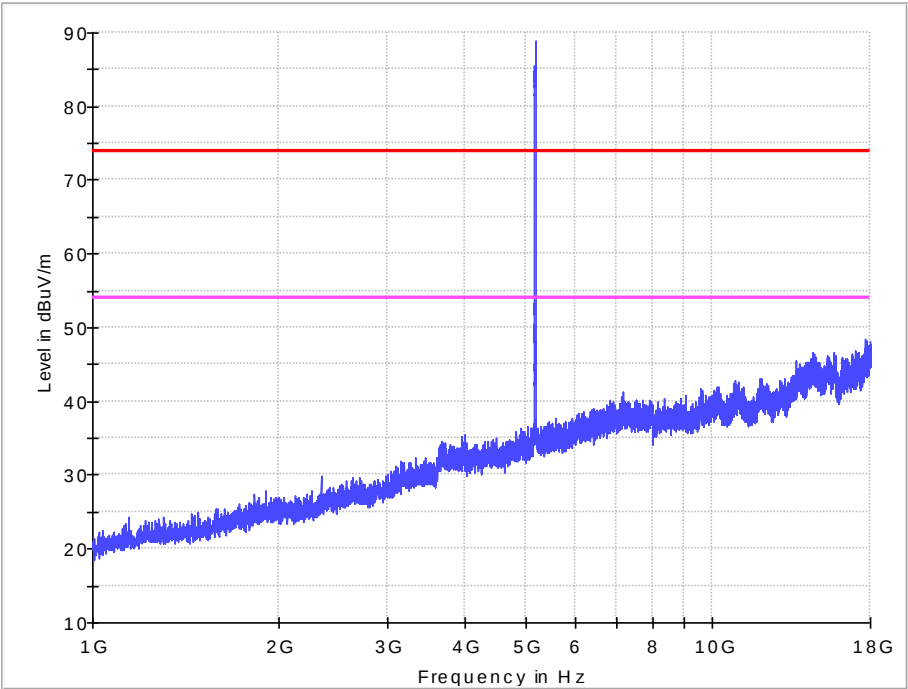
1-18G

11n HT20 IN THE 5.2GHz BAND  
CH36

Horizontal



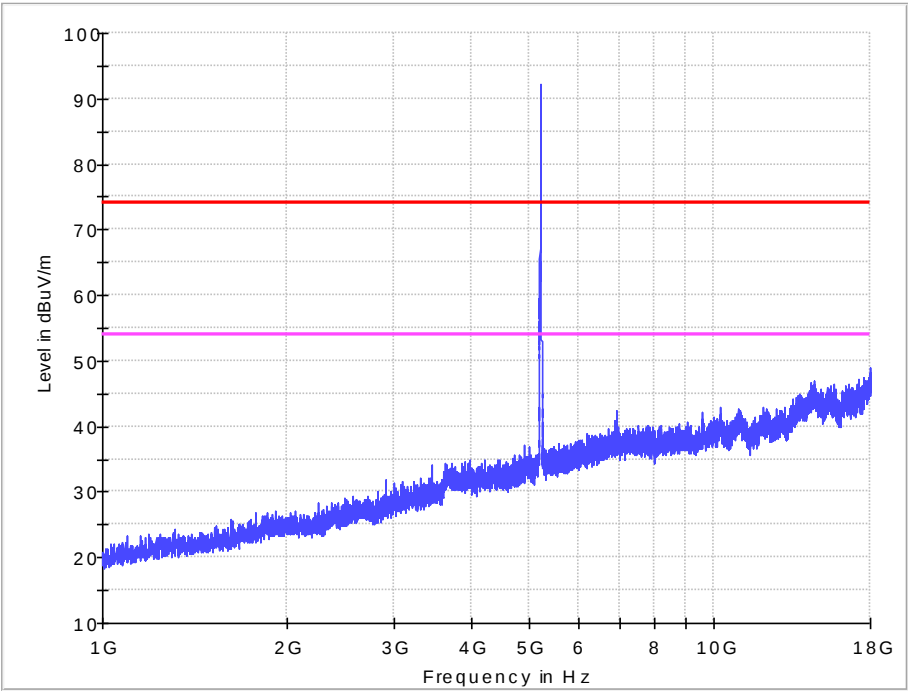
Vertical



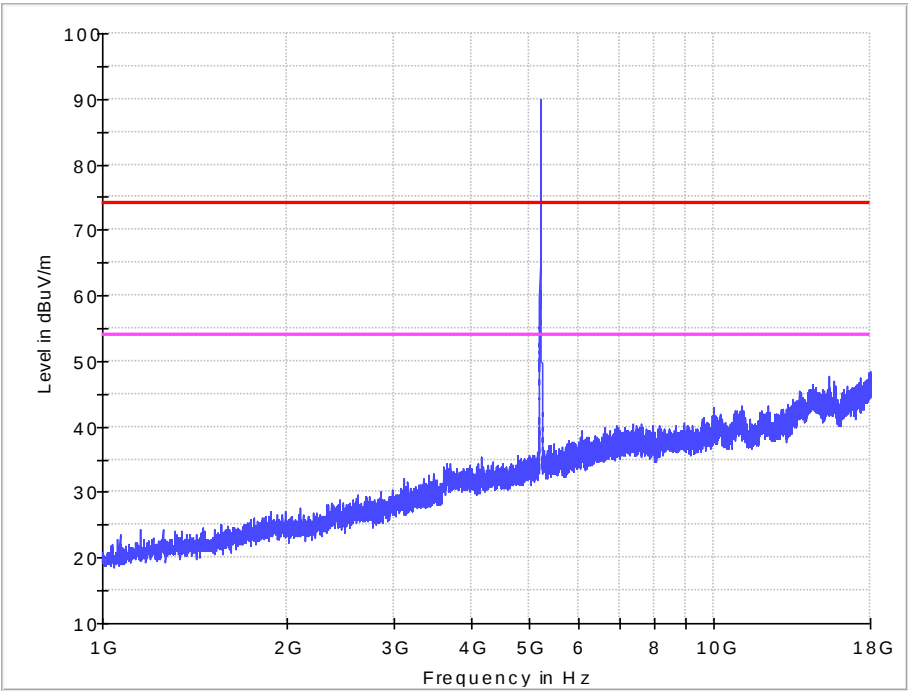
1-18G

11n HT20 IN THE 5.2GHz BAND  
CH40

Horizontal



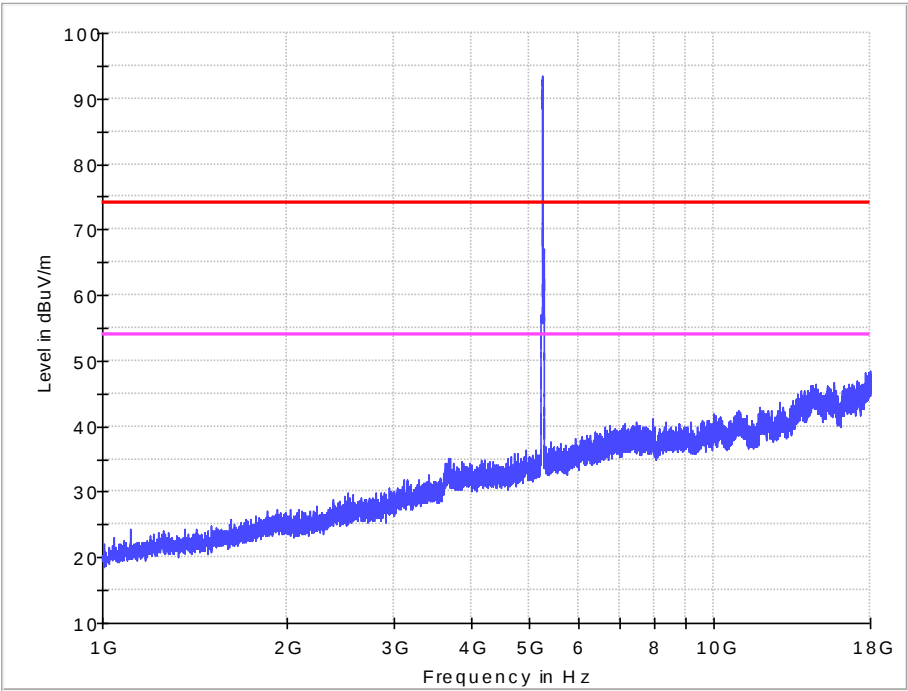
Vertical



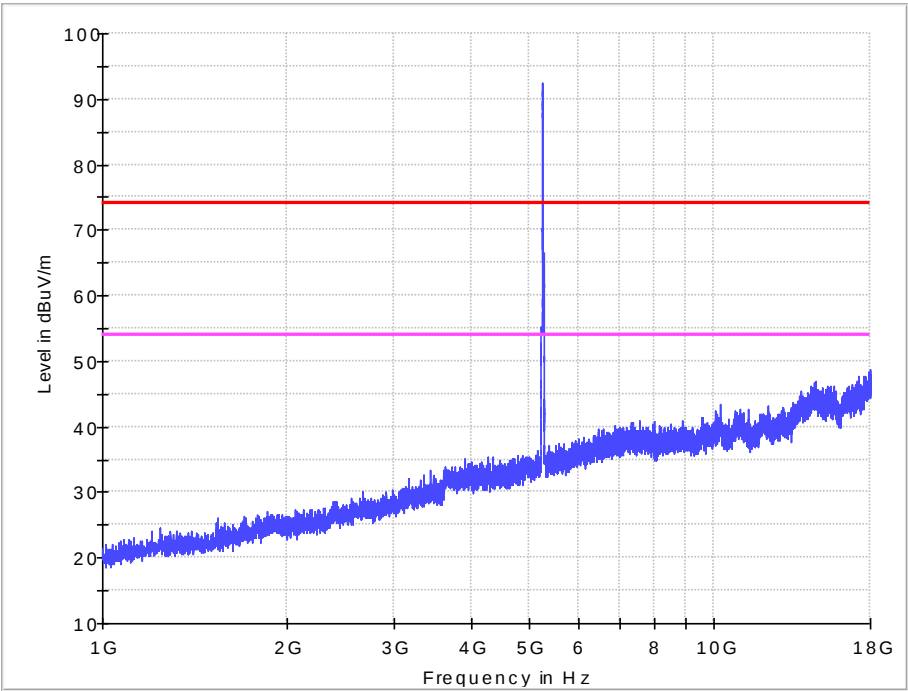
1-18G

11n HT20 IN THE 5.2GHz BAND  
CH48

Horizontal



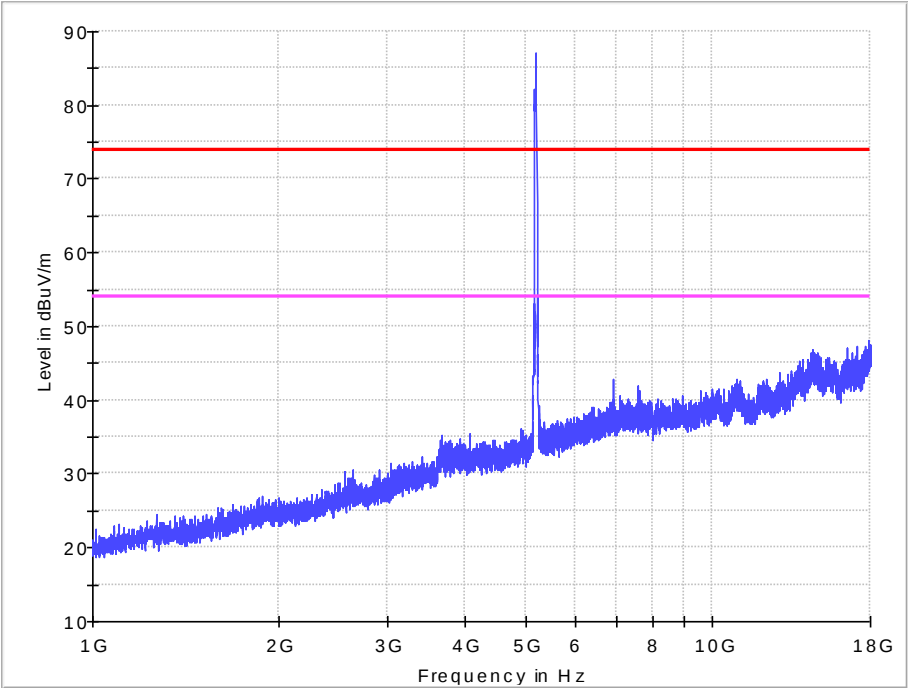
Vertical



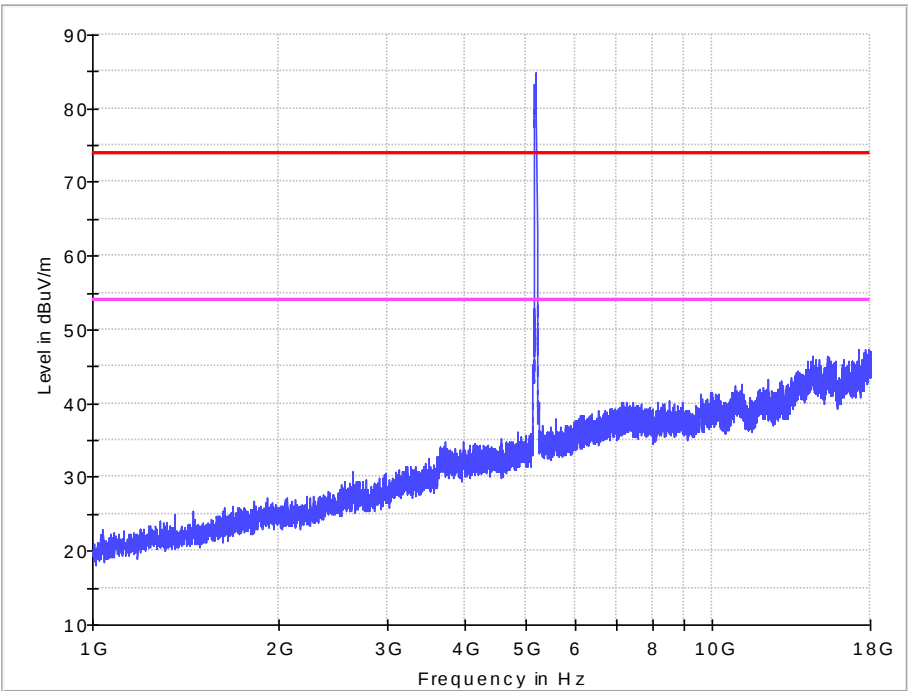
1-18G

11n HT40 IN THE 5.2GHz BAND  
CH38

Horizontal



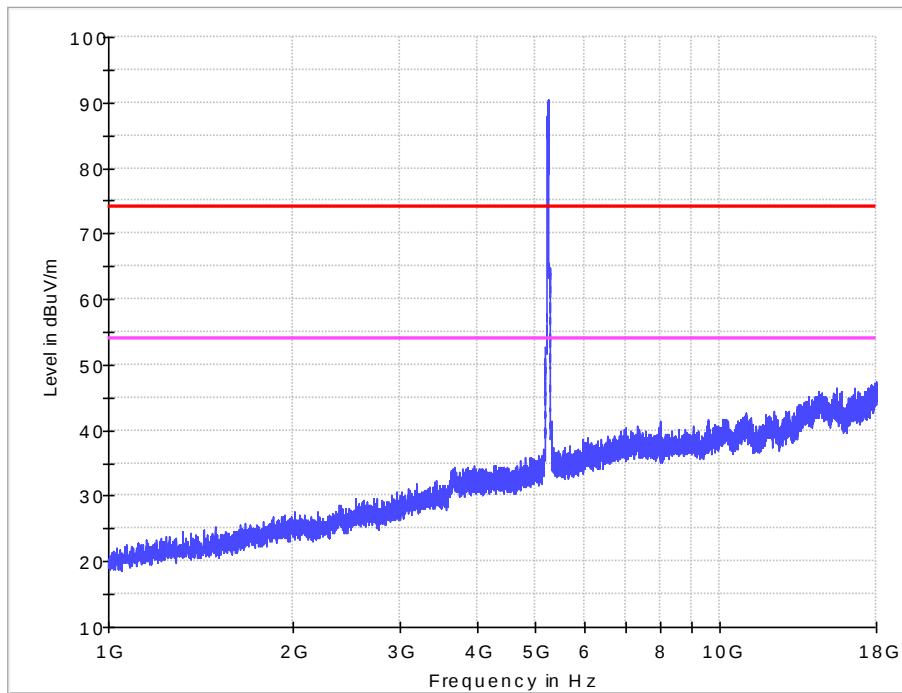
Vertical



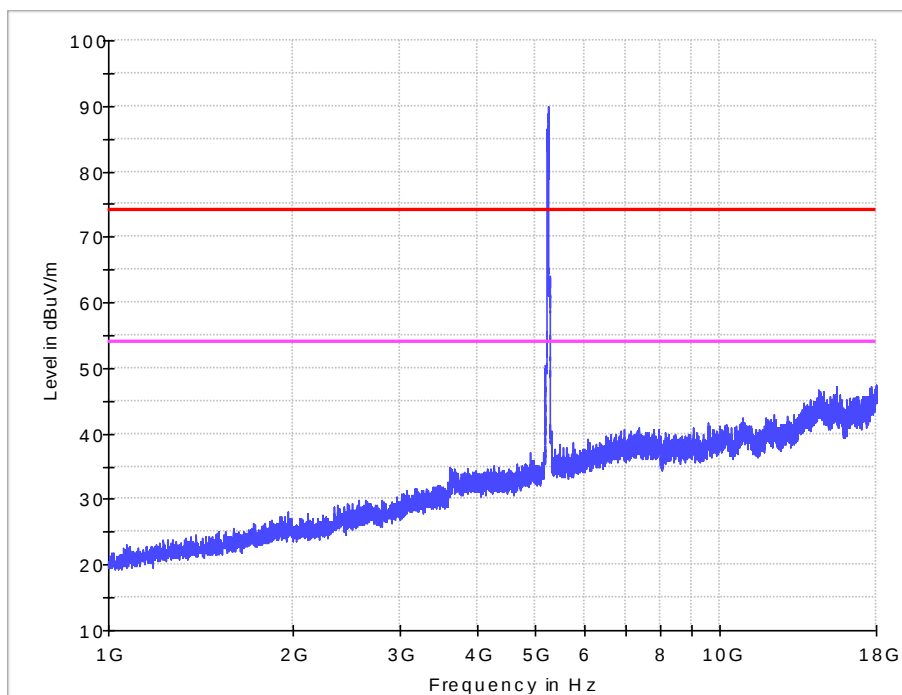
1-18G

11n HT40 IN THE 5.2GHz BAND  
CH46

Horizontal



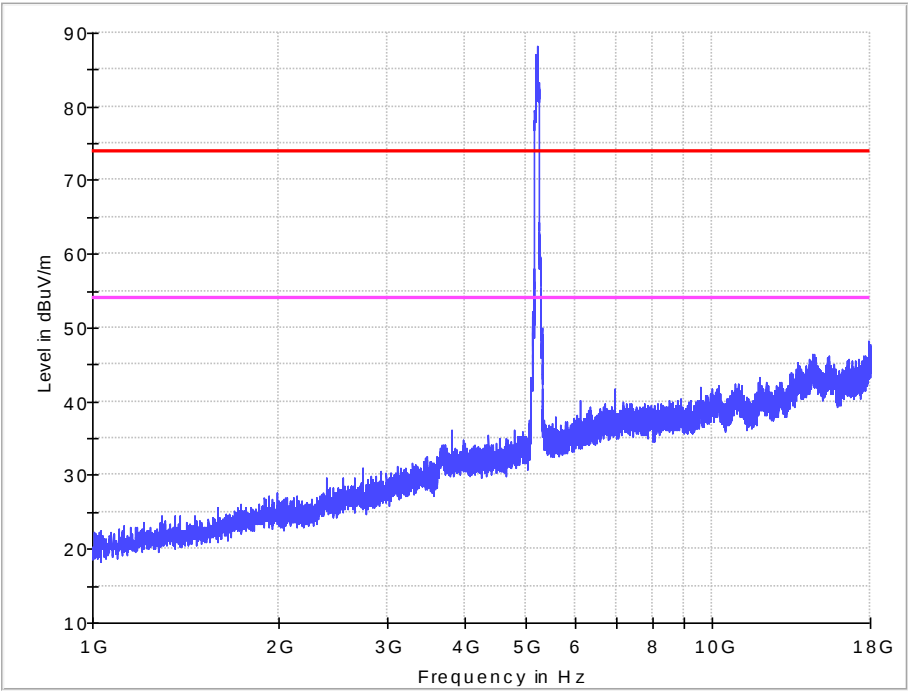
Vertical



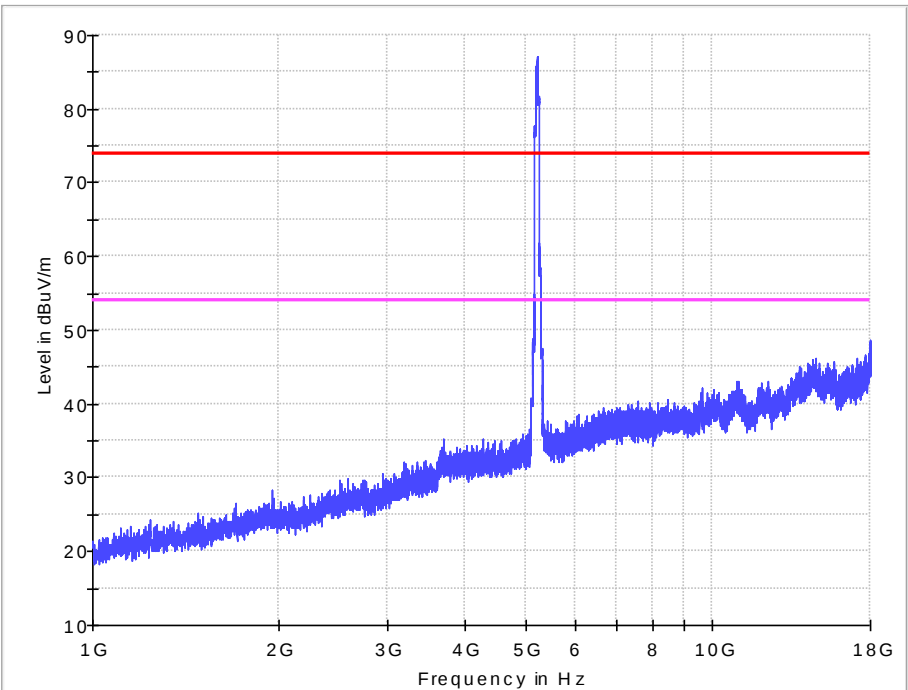
1-18G

11ac VHT80 IN THE 5.2GHz BAND  
CH42

Horizontal



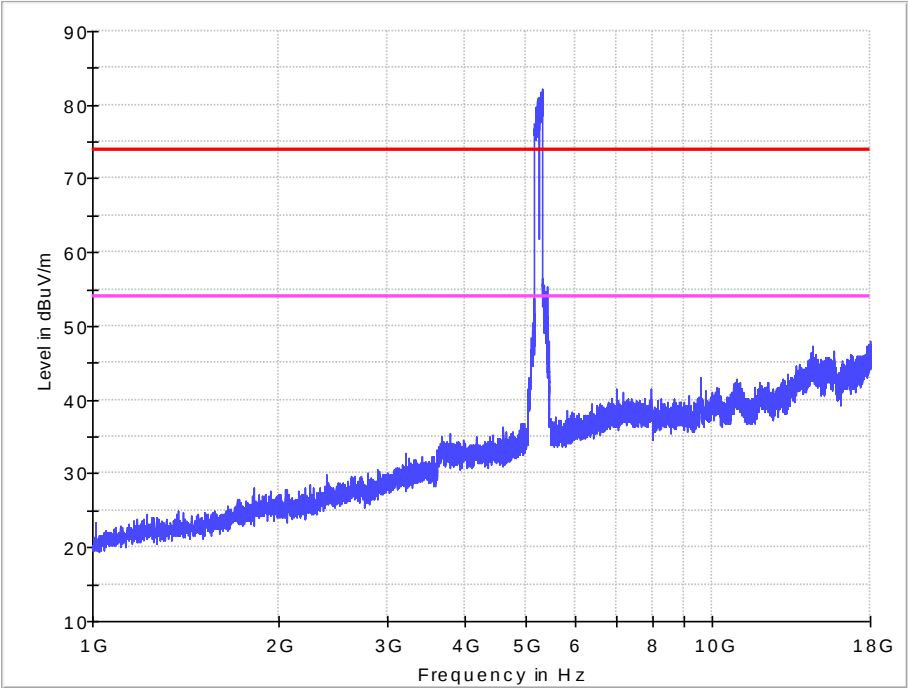
Vertical



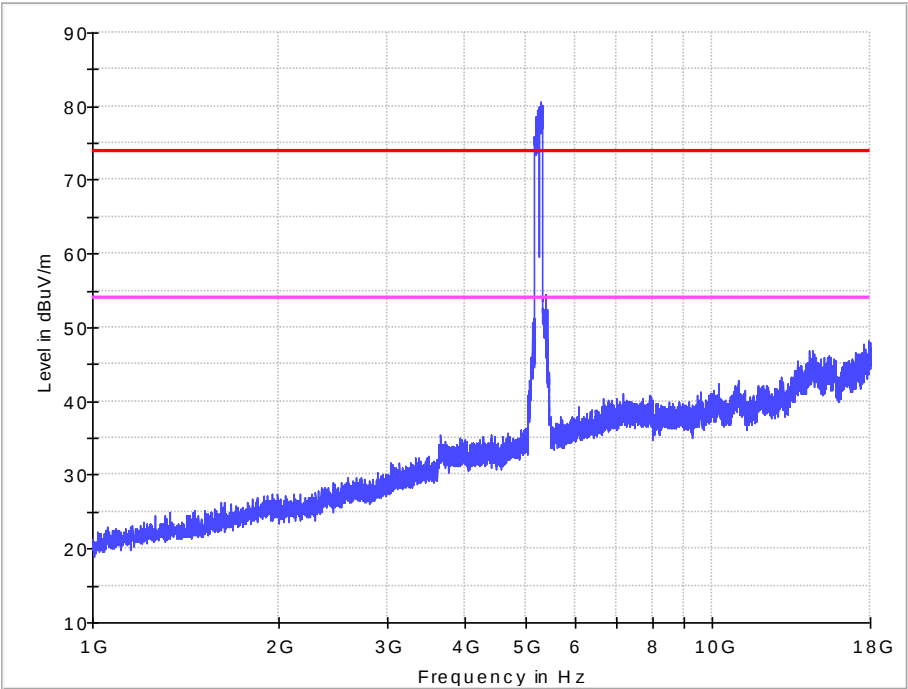
1-18G

11ac VHT160 IN THE 5.2GHz BAND  
CH50

Horizontal



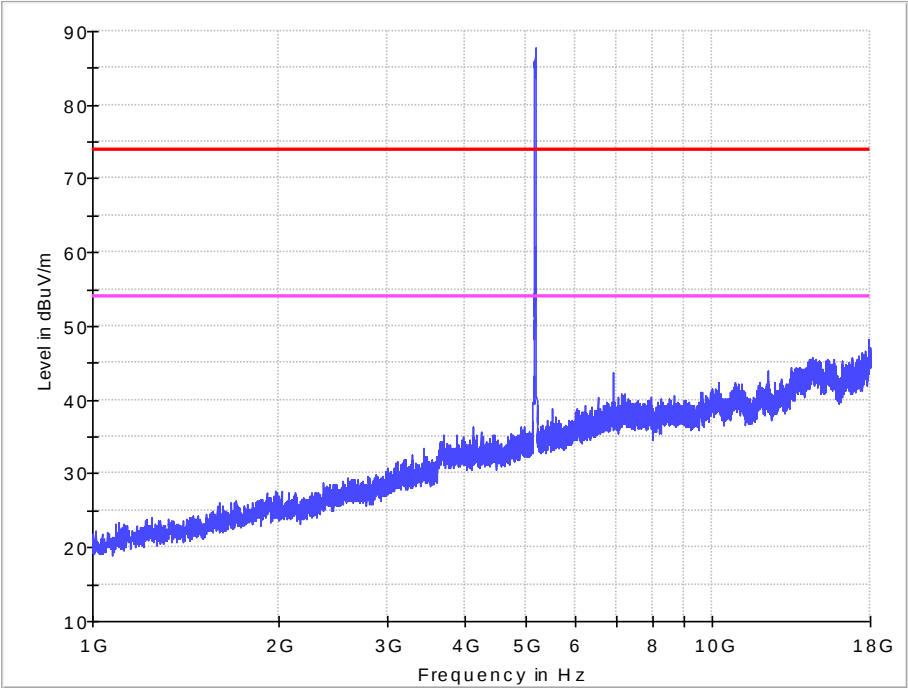
Vertical



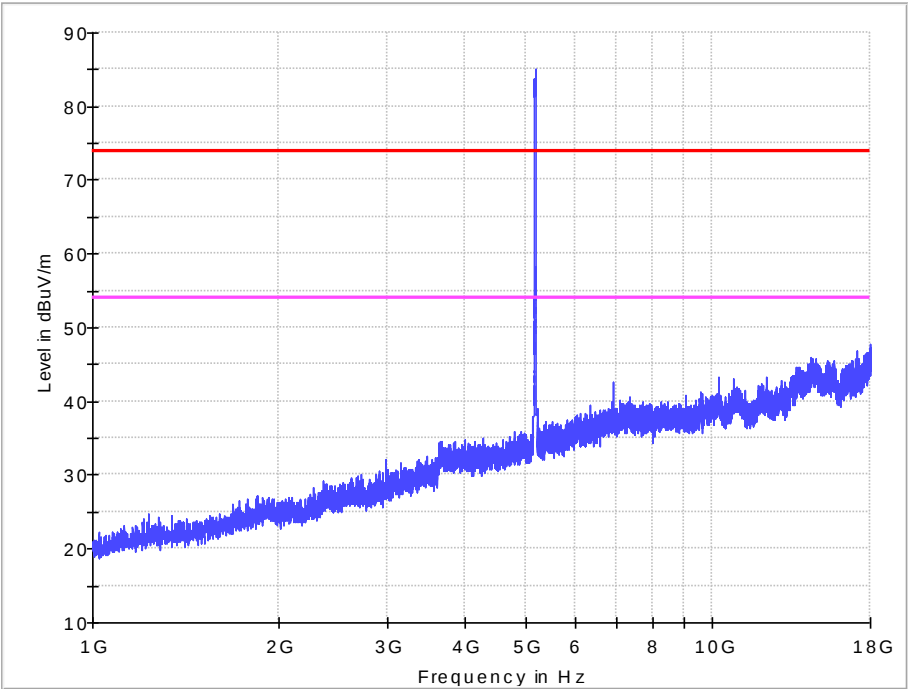
1-18G

802.11ax HEW20 IN THE 5.2GHz BAND  
CH36

Horizontal



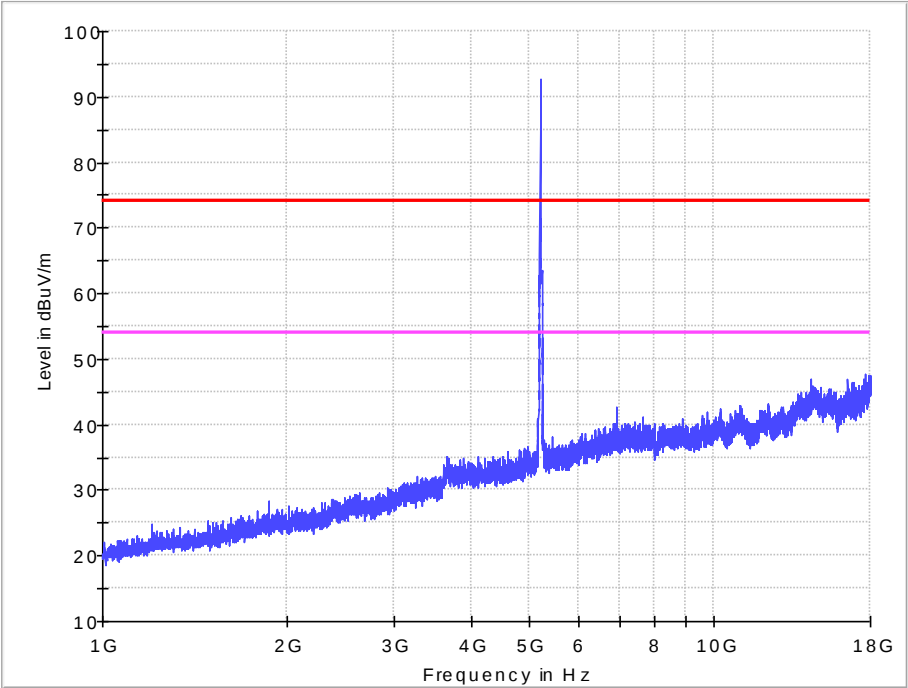
Vertical



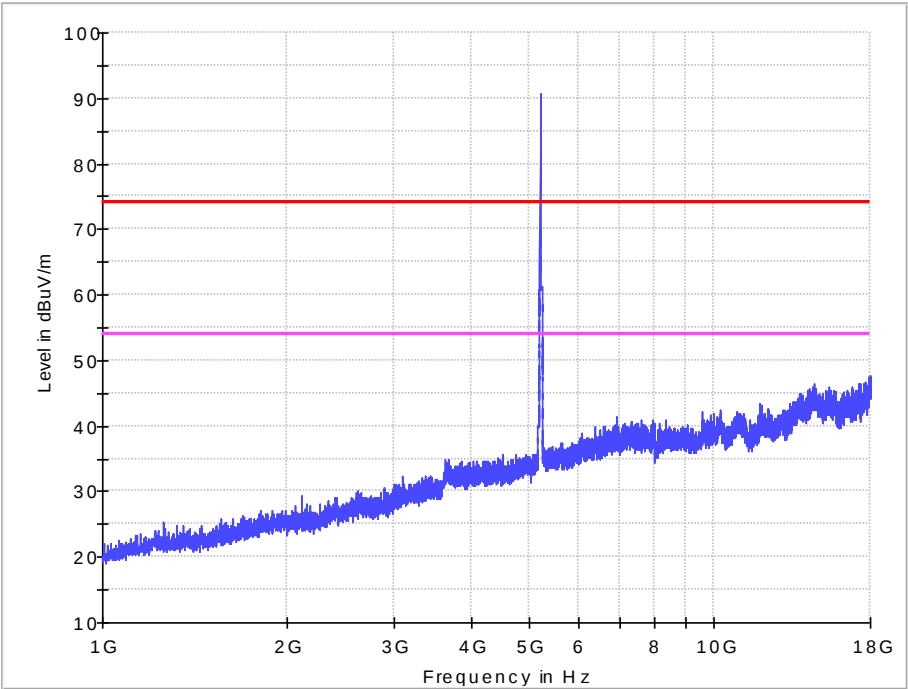
1-18G

802.11ax HEW20 IN THE 5.2GHz BAND  
CH40

Horizontal



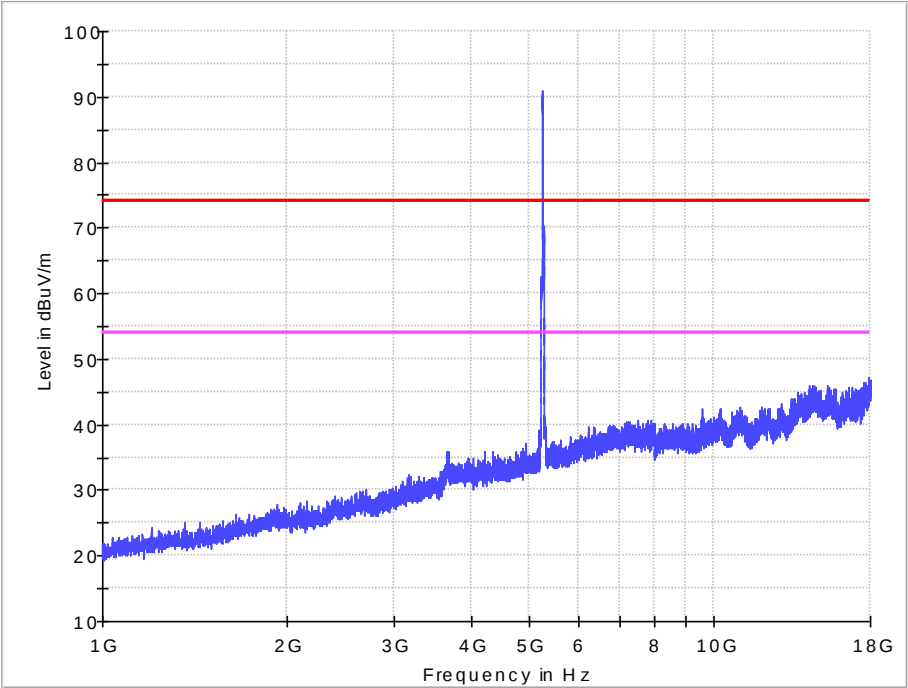
Vertical



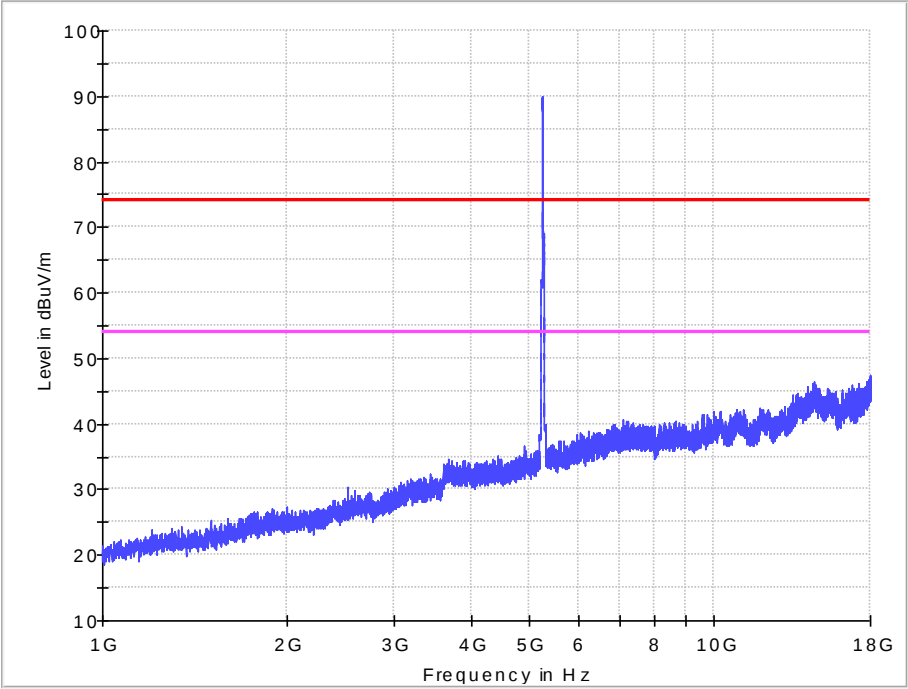
1-18G

802.11ax HEW20 IN THE 5.2GHz BAND  
CH48

Horizontal



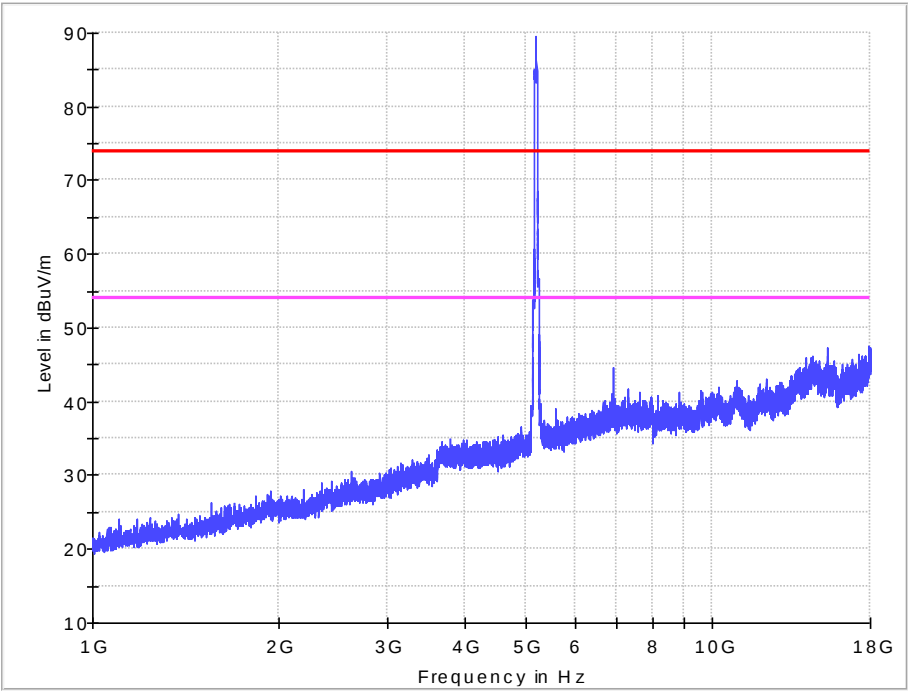
Vertical



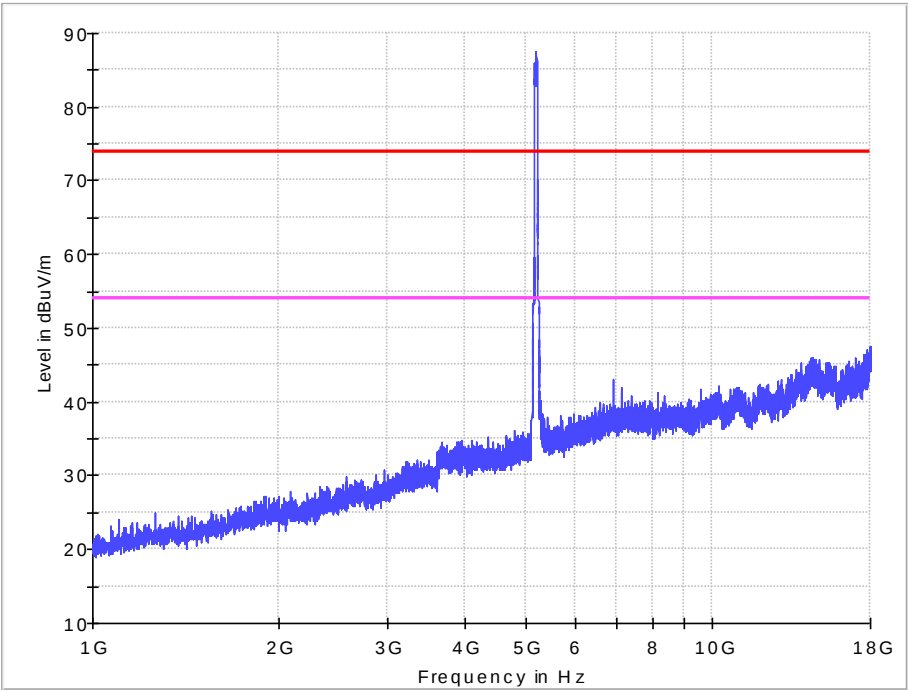
1-18G

802.11ax HEW40 IN THE 5.2GHz BAND  
CH38

Horizontal



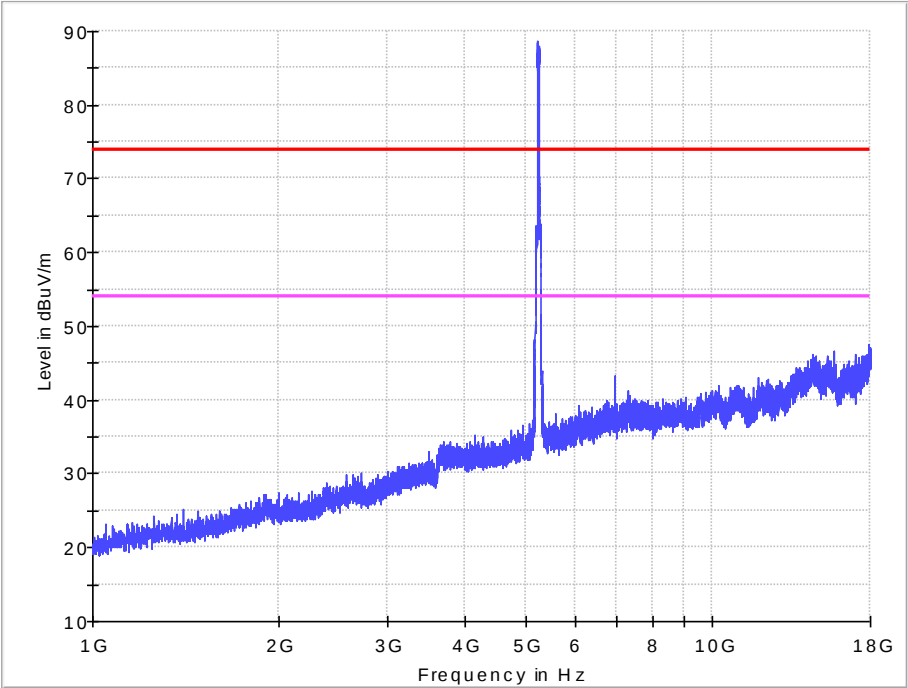
Vertical



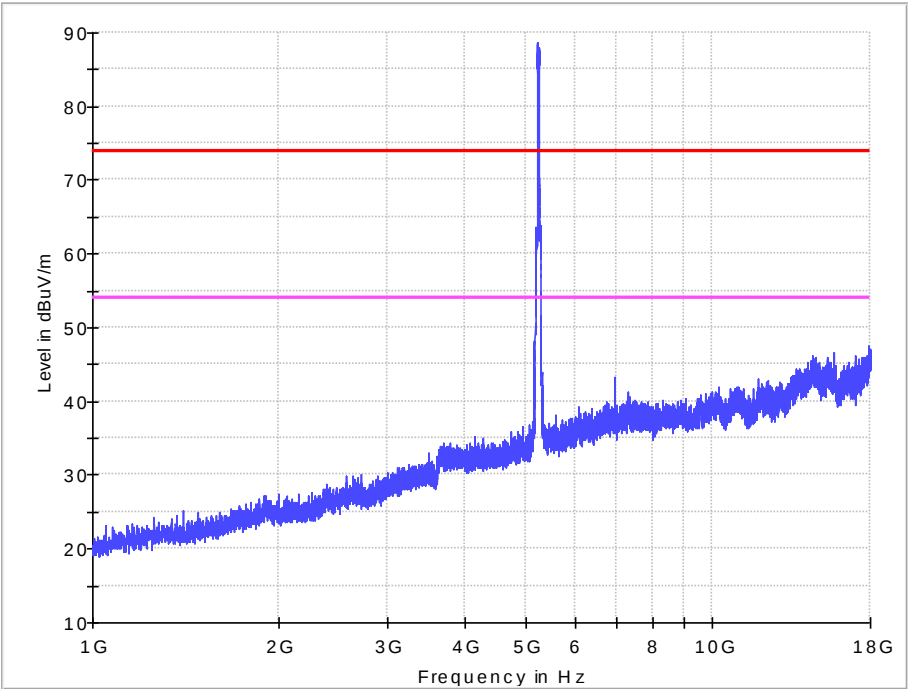
1-18G

802.11ax HEW40 IN THE 5.2GHz BAND  
CH46

Horizontal



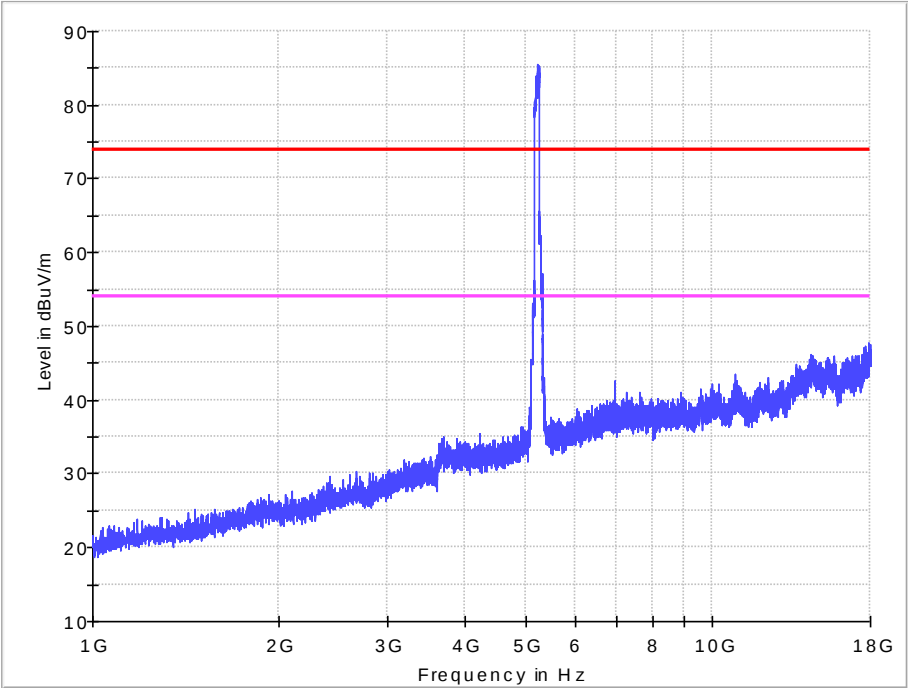
Vertical



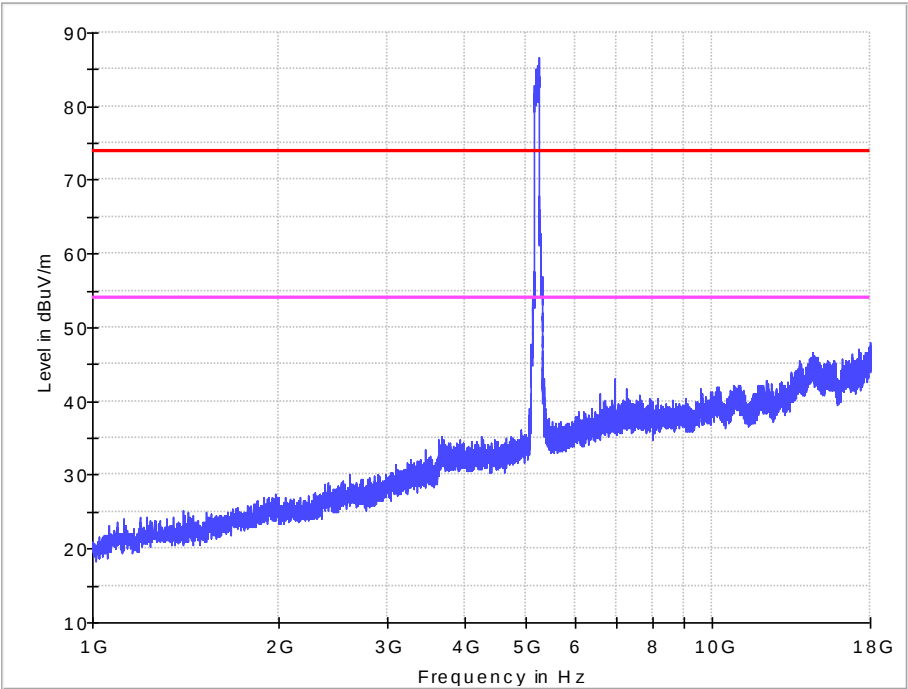
1-18G

802.11ax HEW80 IN THE 5.2GHz BAND  
CH42

Horizontal



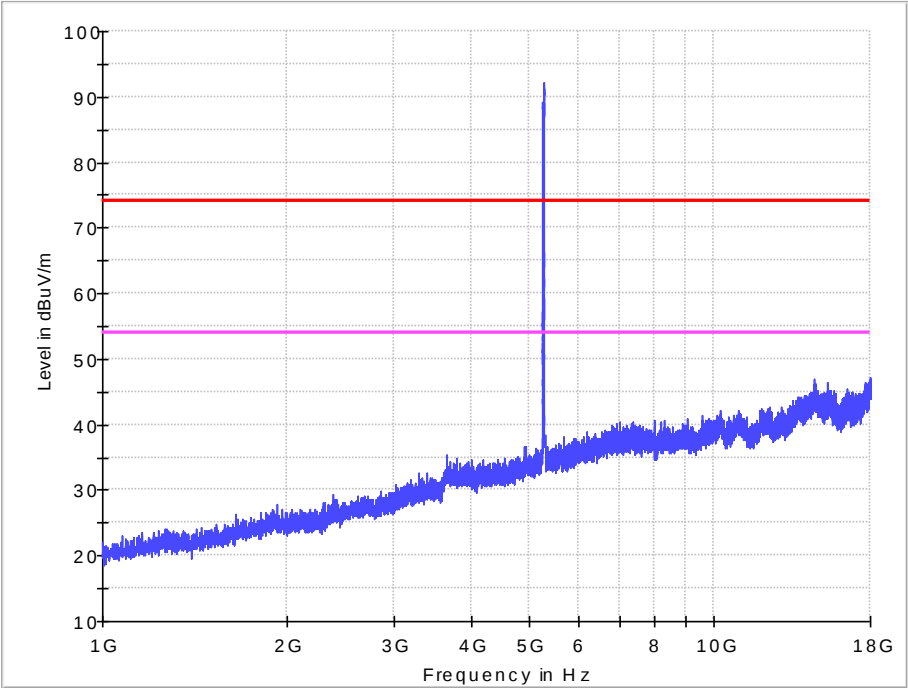
Vertical



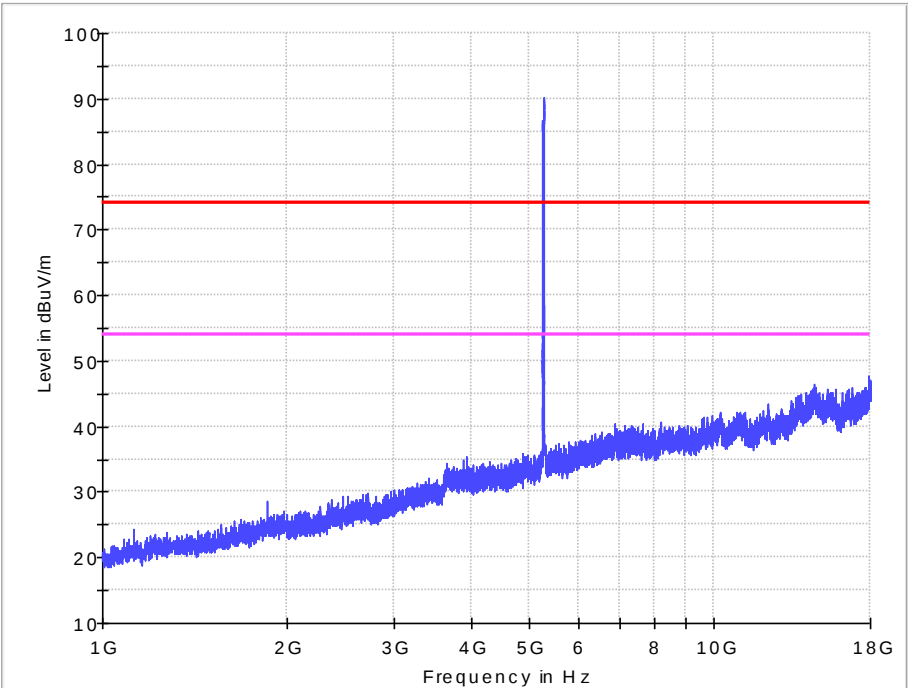
1-18G

11a IN THE 5.3GHz BAND  
CH52

Horizontal



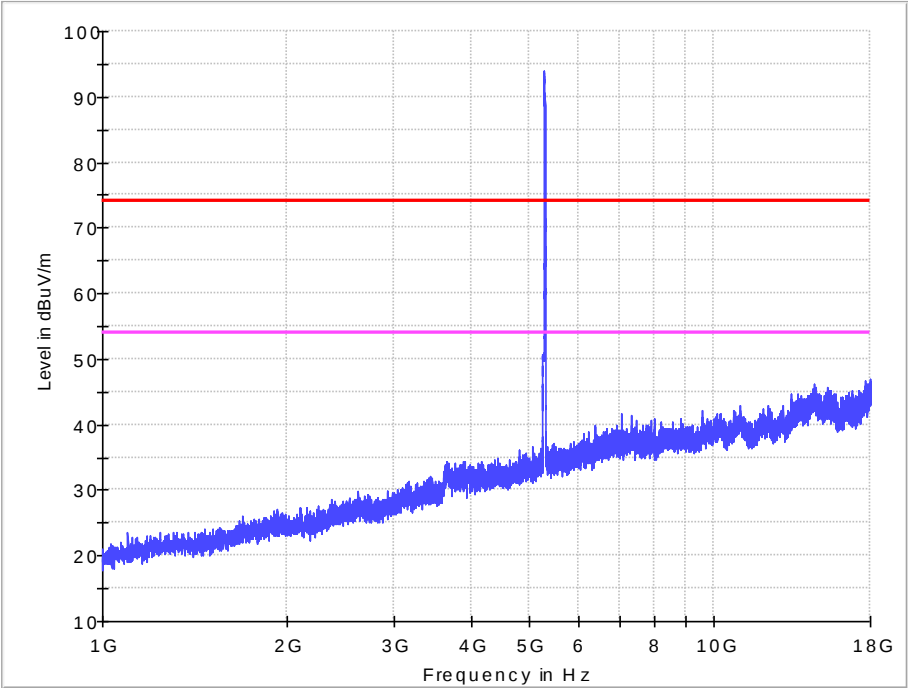
Vertical



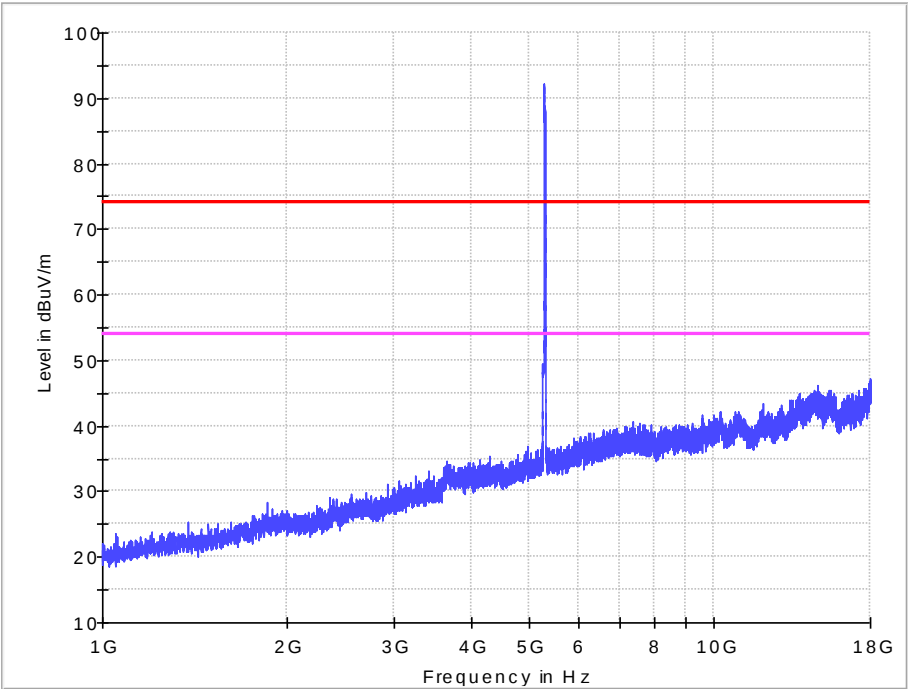
1-18G

11a IN THE 5.3GHz BAND  
CH56

Horizontal



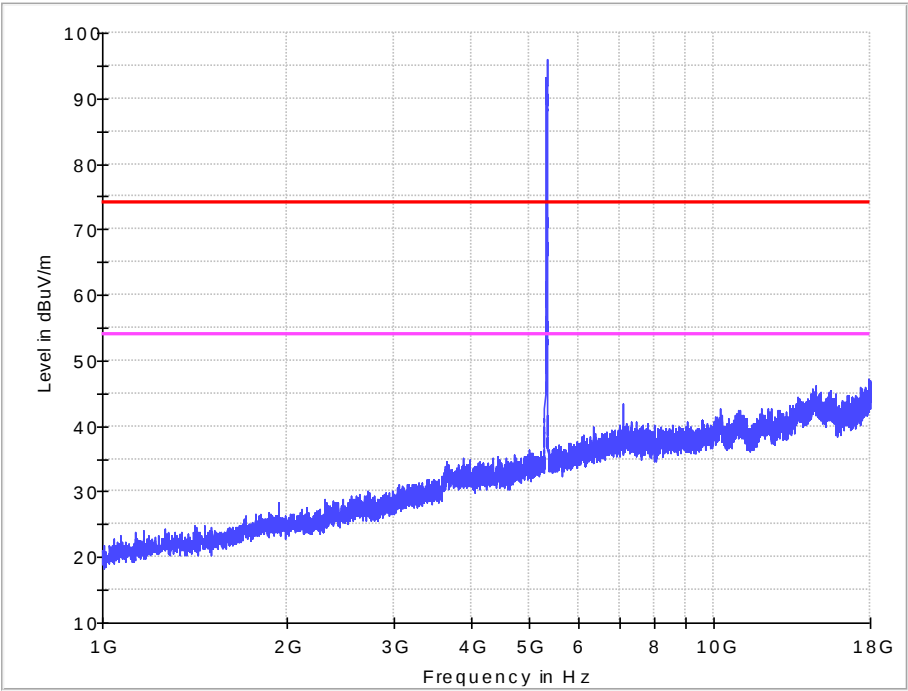
Vertical



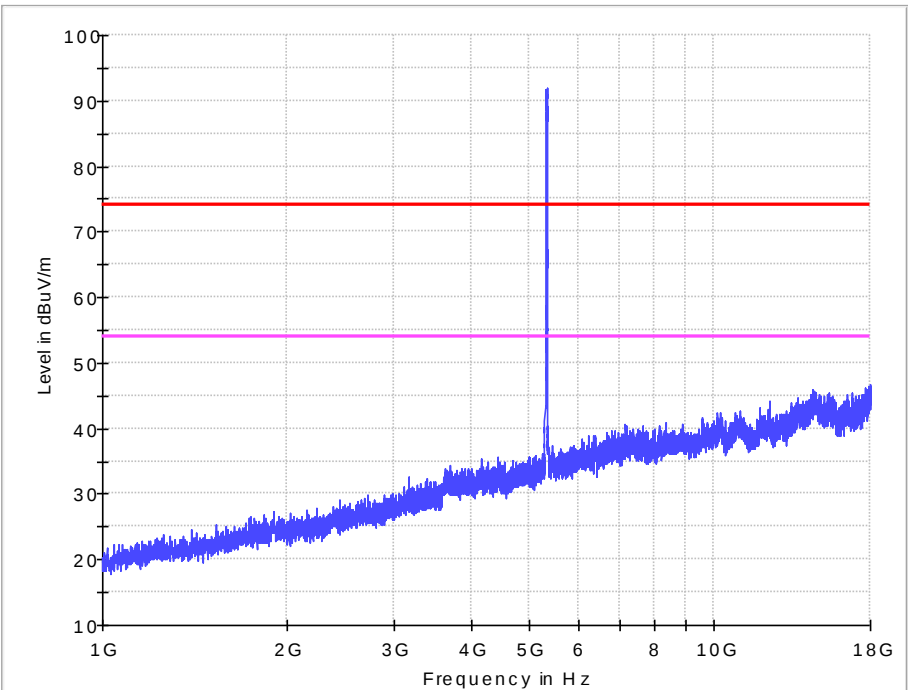
1-18G

11a IN THE 5.3GHz BAND  
CH64

Horizontal



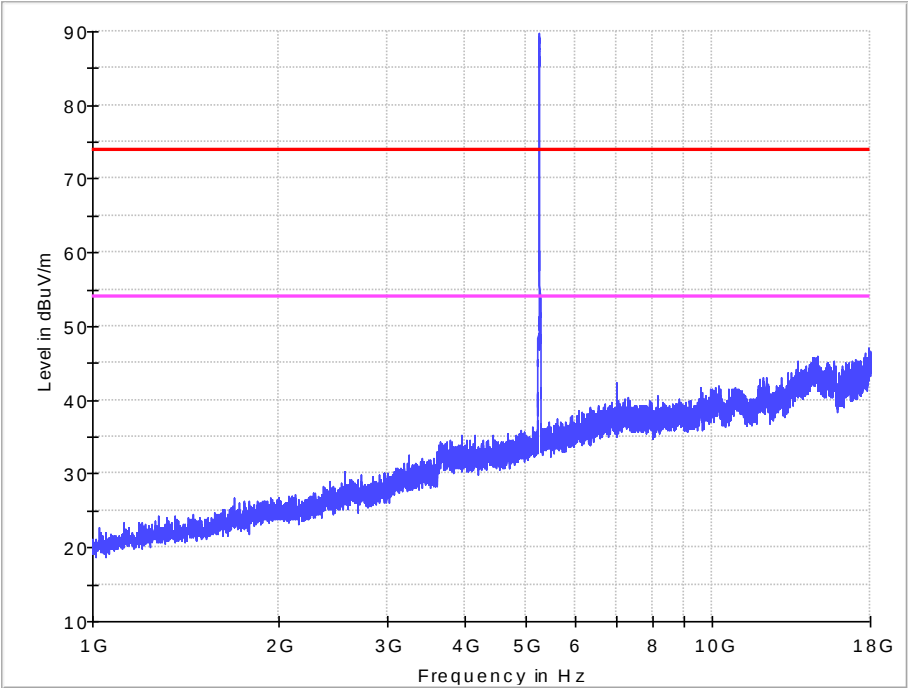
Vertical



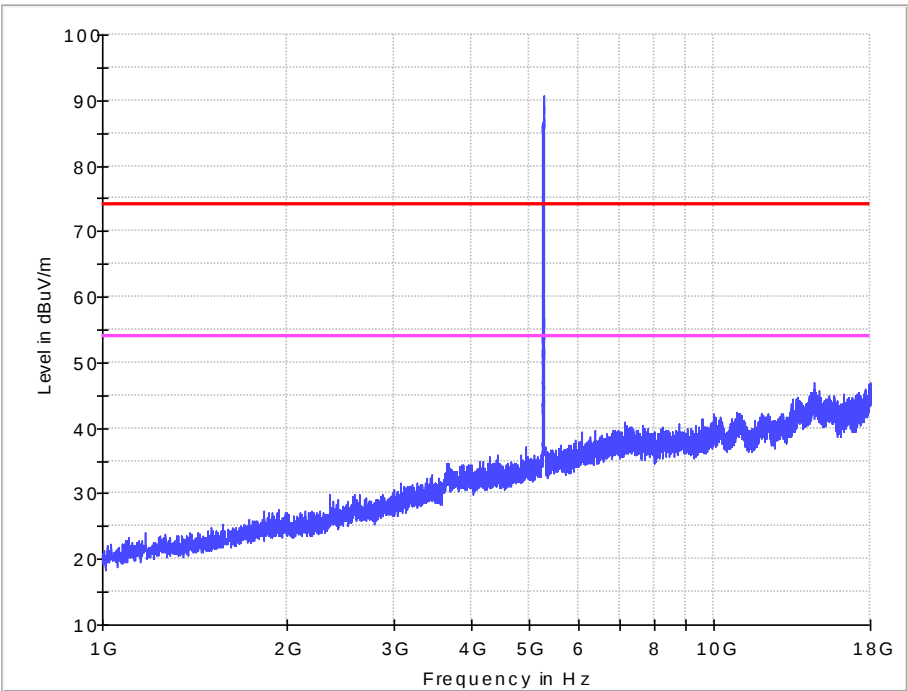
1-18G

11n HT20 IN THE 5.3GHz BAND  
CH52

Horizontal



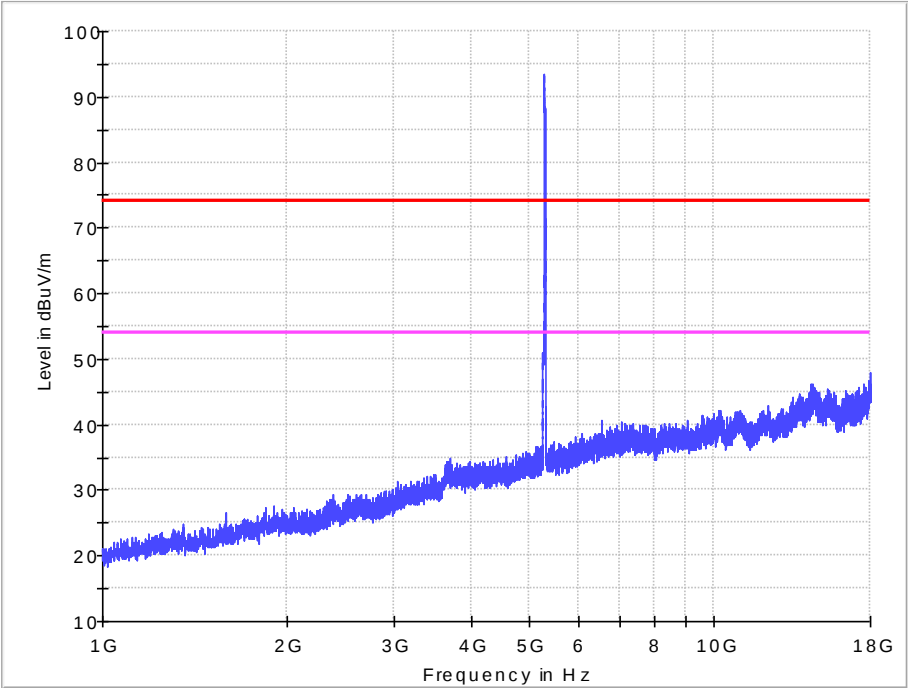
Vertical



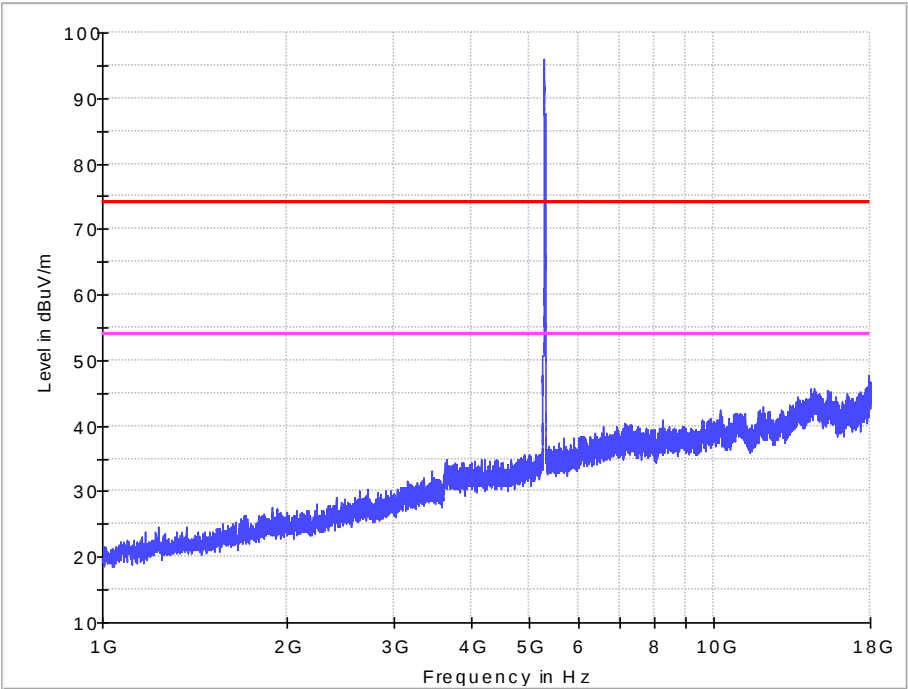
1-18G

11n HT20 IN THE 5.3GHz BAND  
CH56

Horizontal



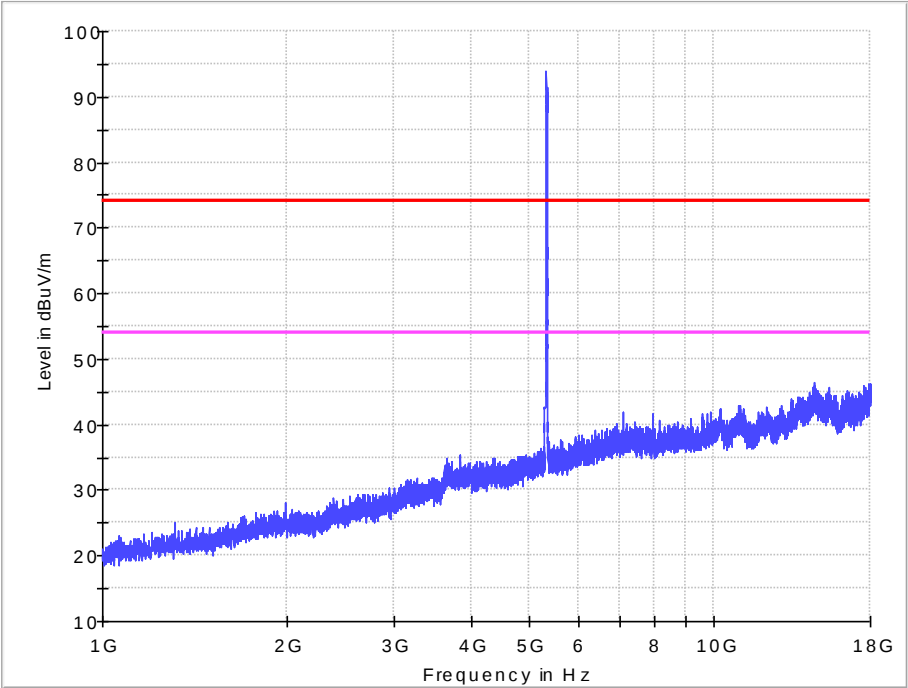
Vertical



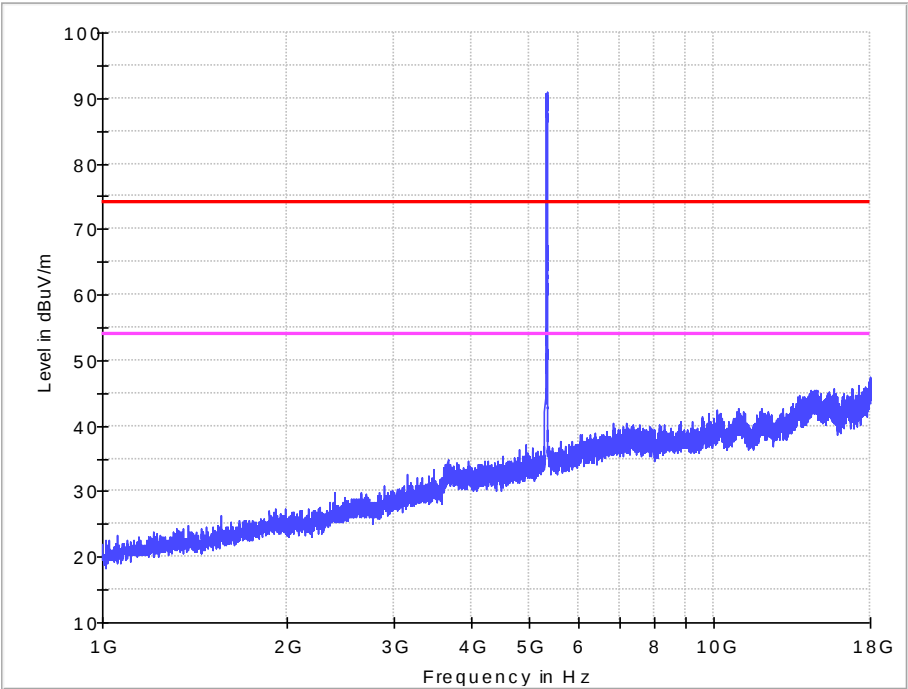
1-18G

11n HT20 IN THE 5.3GHz BAND  
CH64

Horizontal



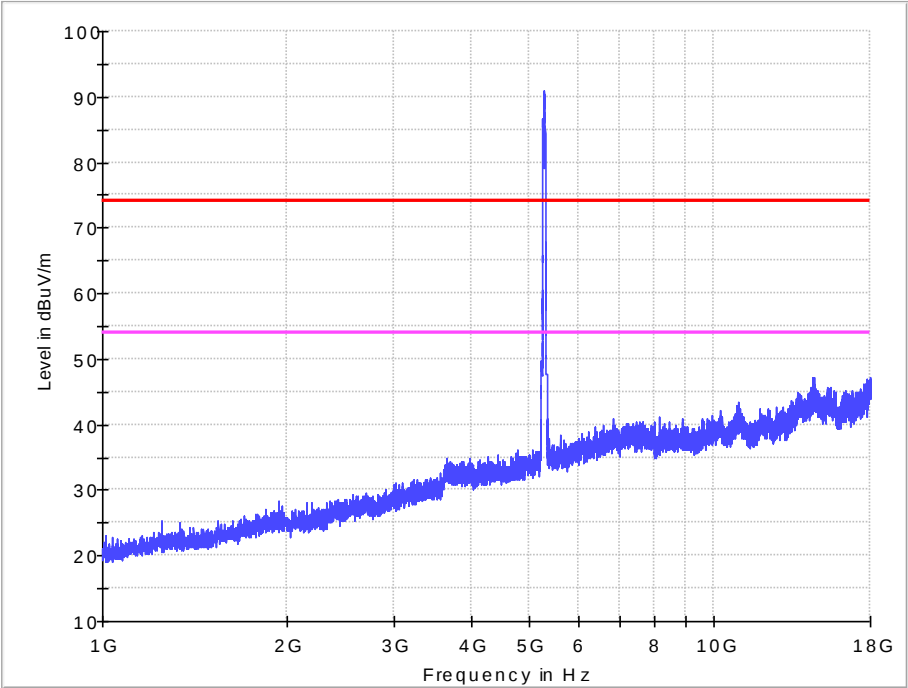
Vertical



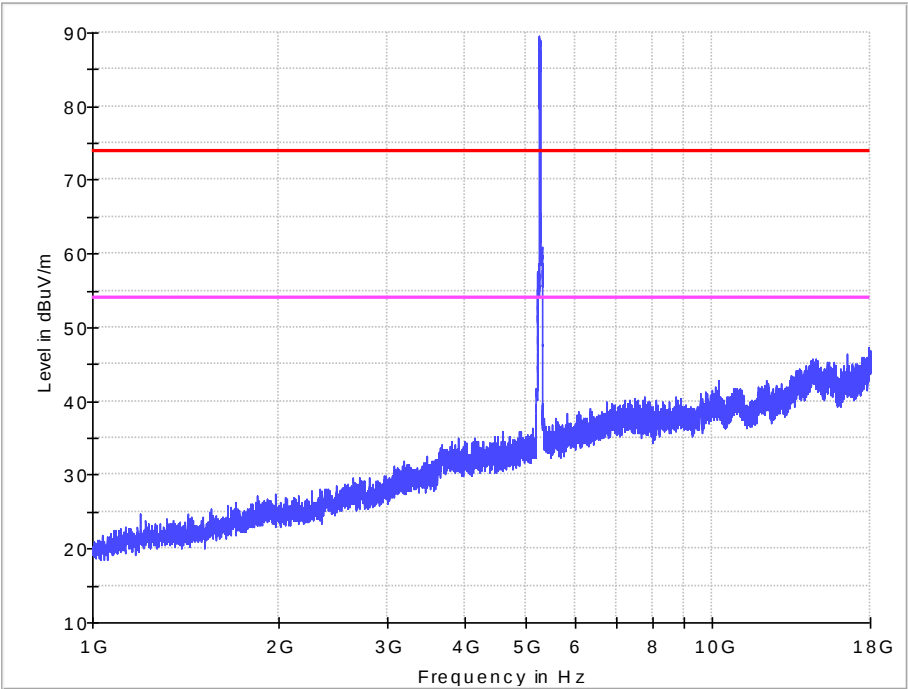
1-18G

11n HT40 IN THE 5.3GHz BAND  
CH54

Horizontal



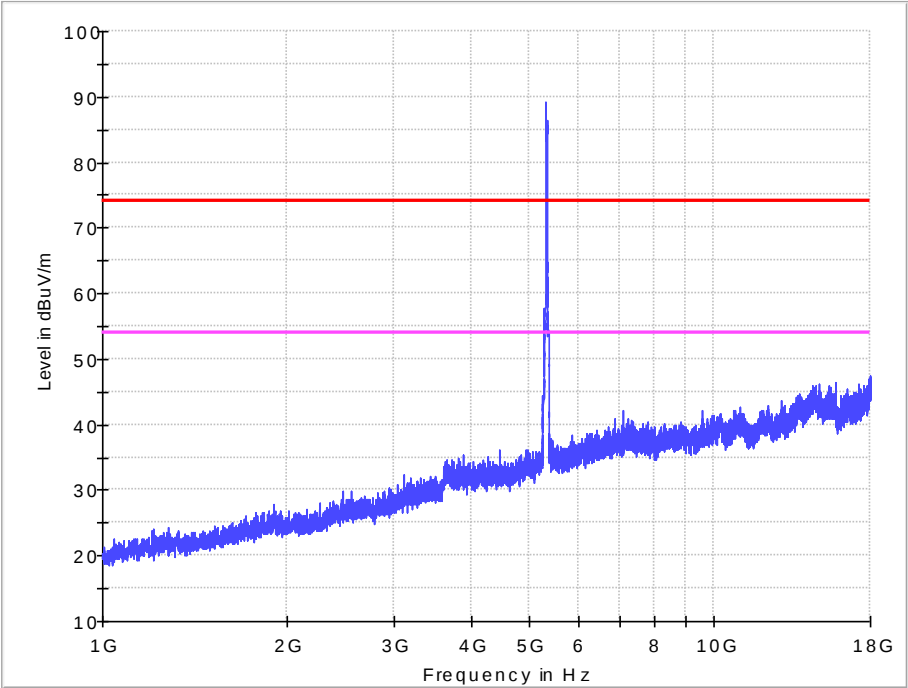
Vertical



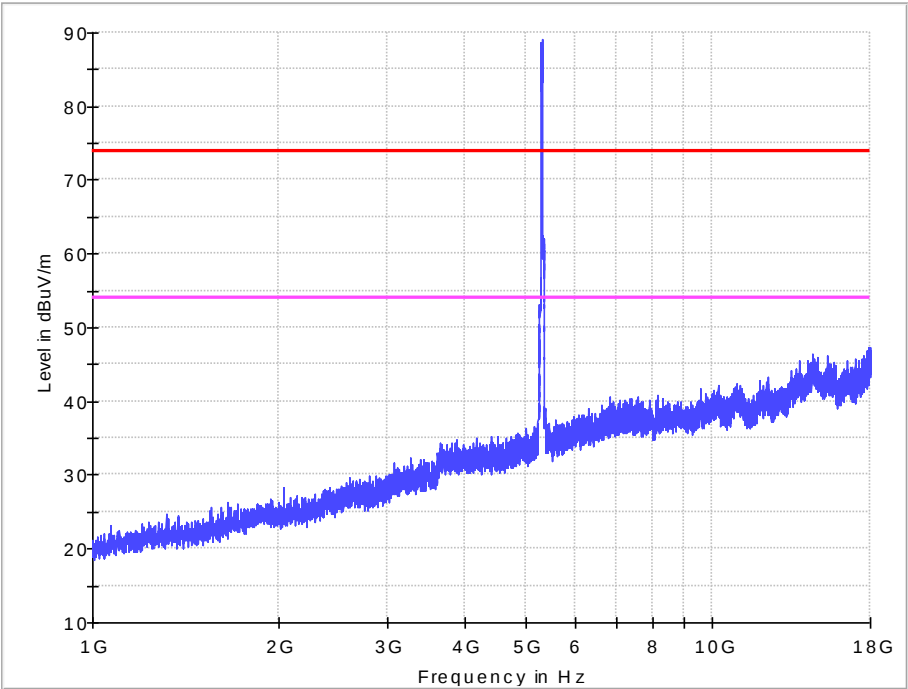
1-18G

11n HT40 IN THE 5.3GHz BAND  
CH62

Horizontal



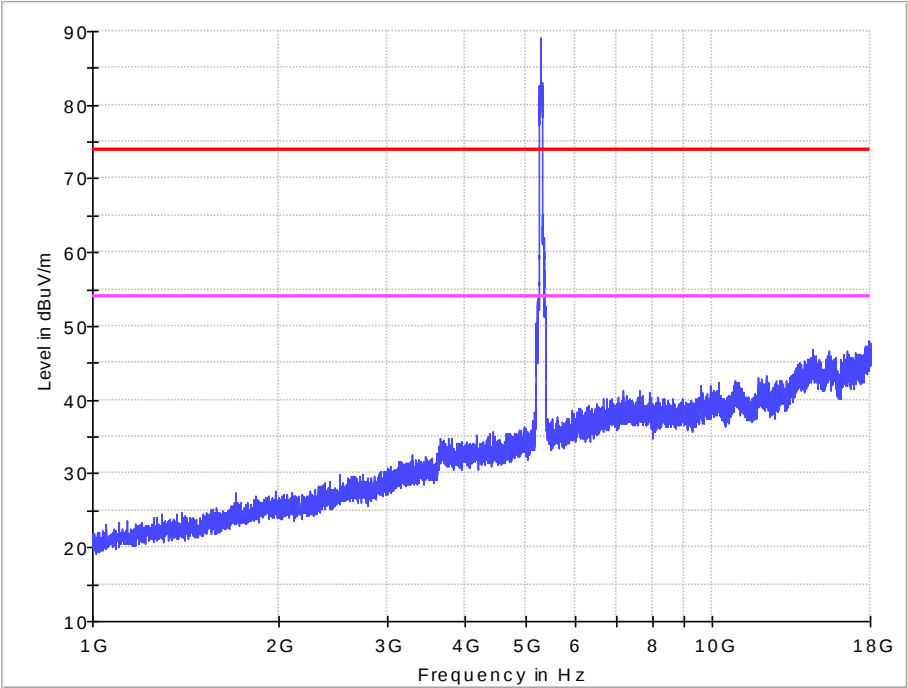
Vertical



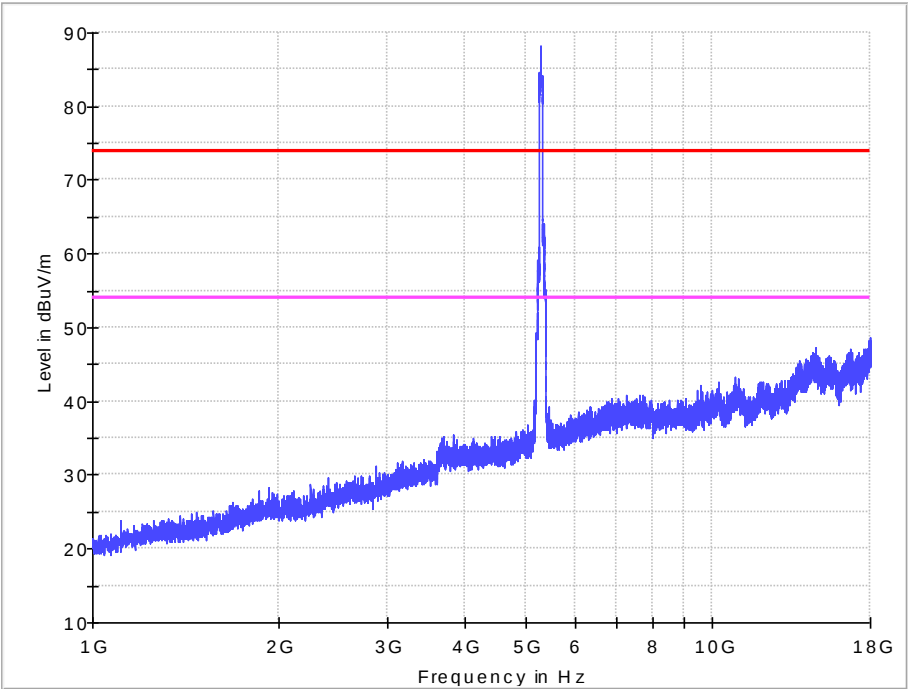
1-18G

11ac VHT80 IN THE 5.3GHz BAND  
CH58

Horizontal



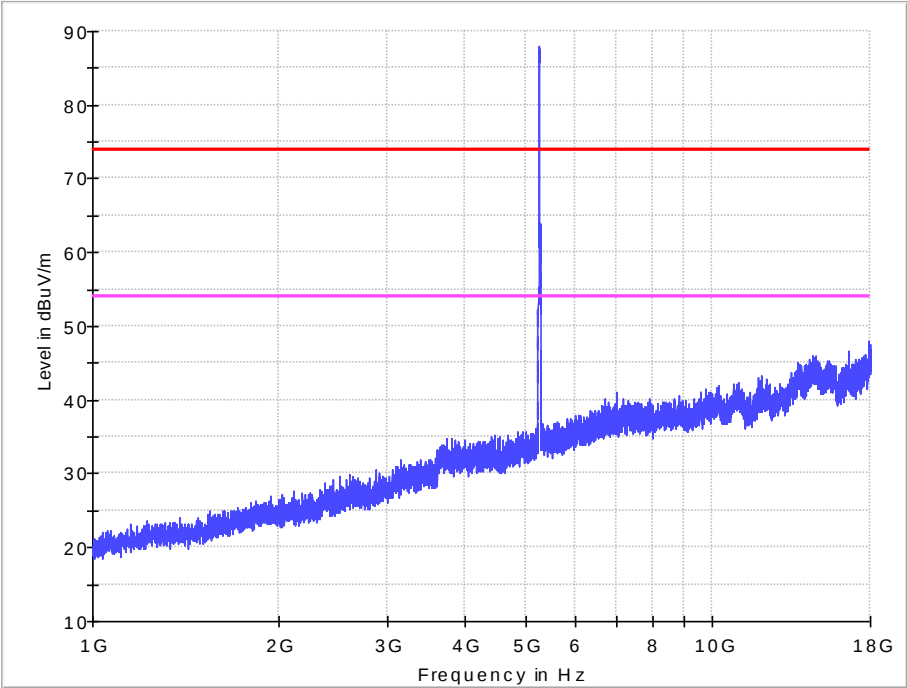
Vertical



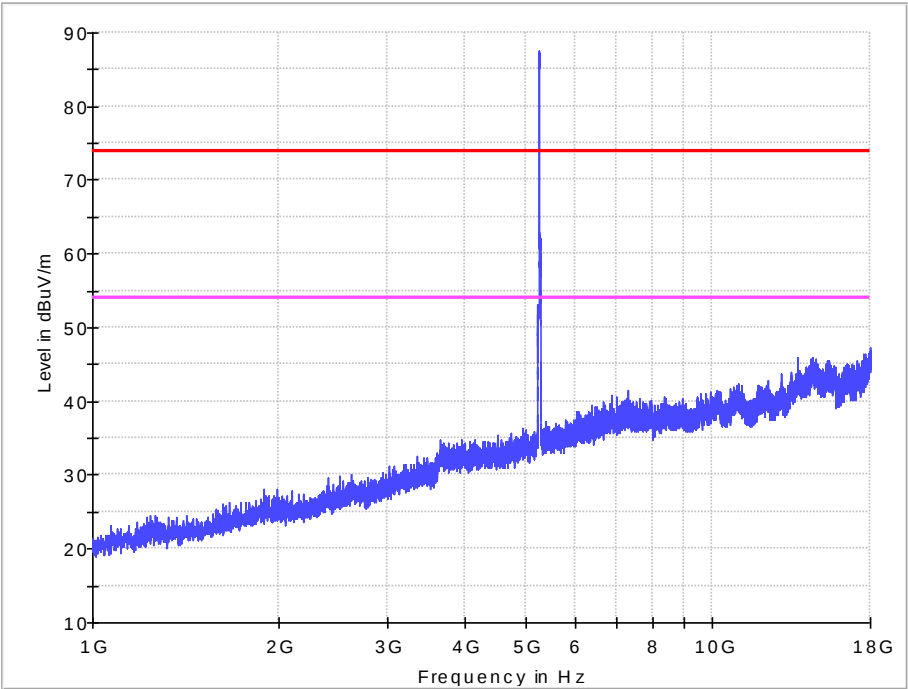
1-18G

802.11ax HEW20 IN THE 5.3GHz BAND  
CH52

Horizontal



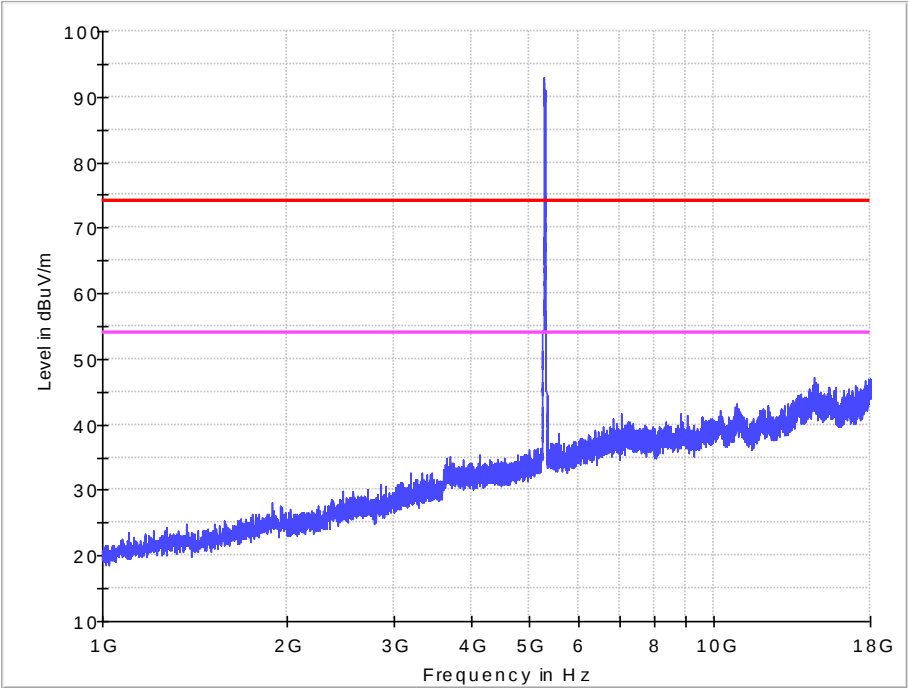
Vertical



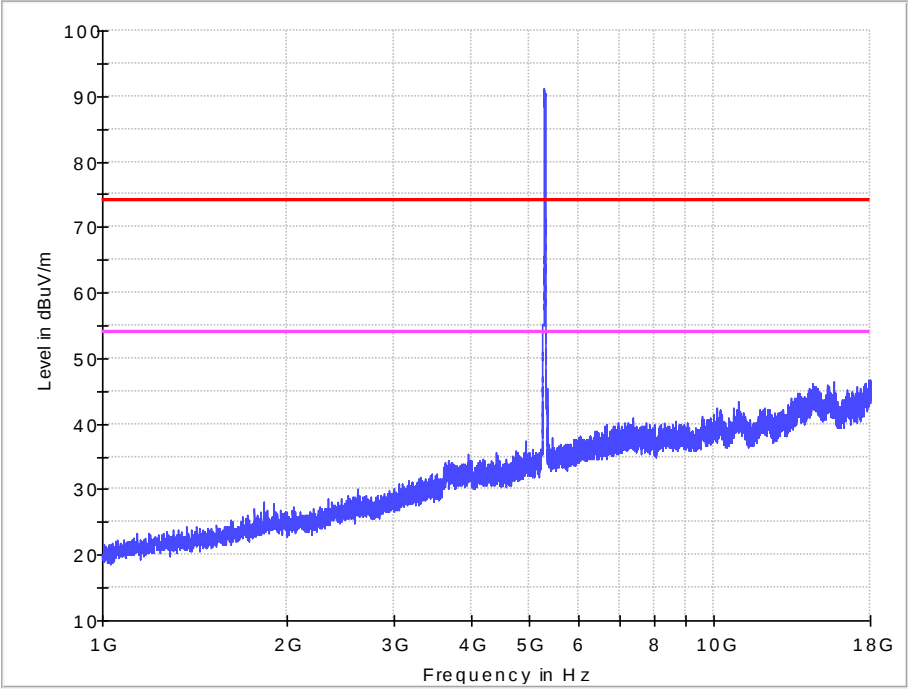
1-18G

802.11ax HEW20 IN THE 5.3GHz BAND  
CH56

Horizontal



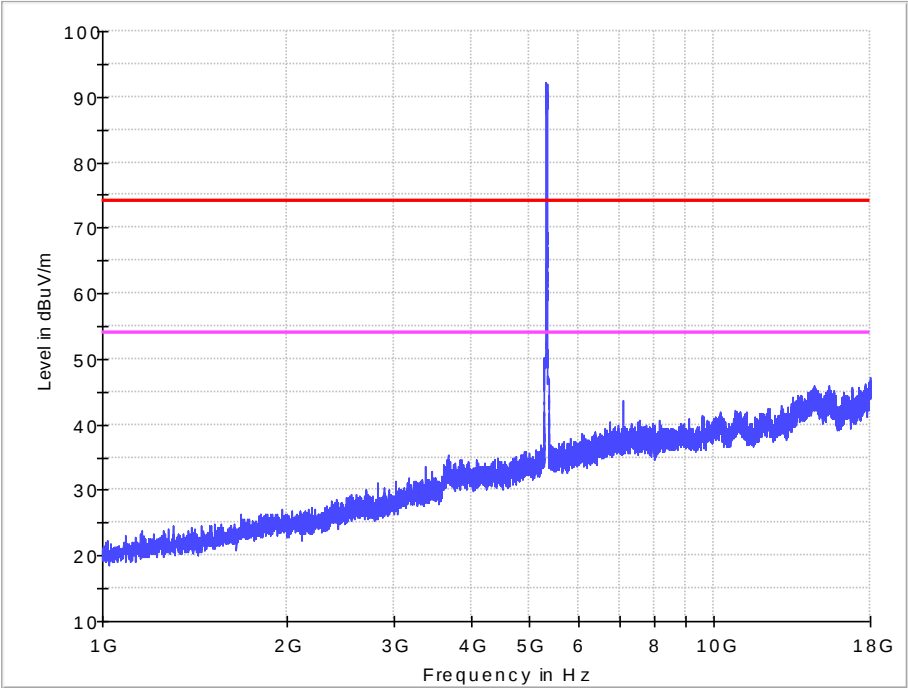
Vertical



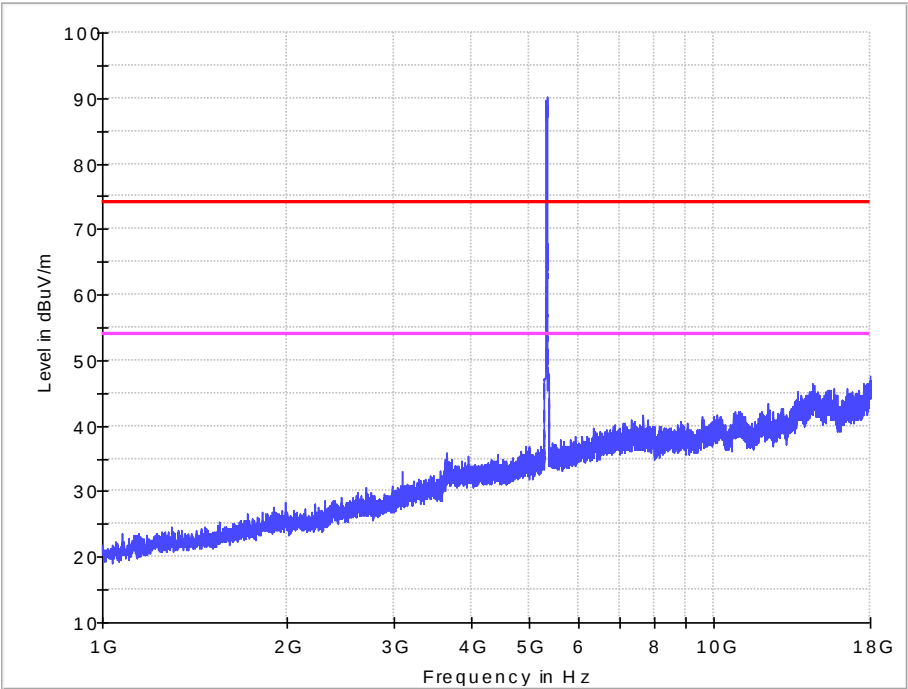
1-18G

802.11ax HEW20 IN THE 5.3GHz BAND  
CH64

Horizontal



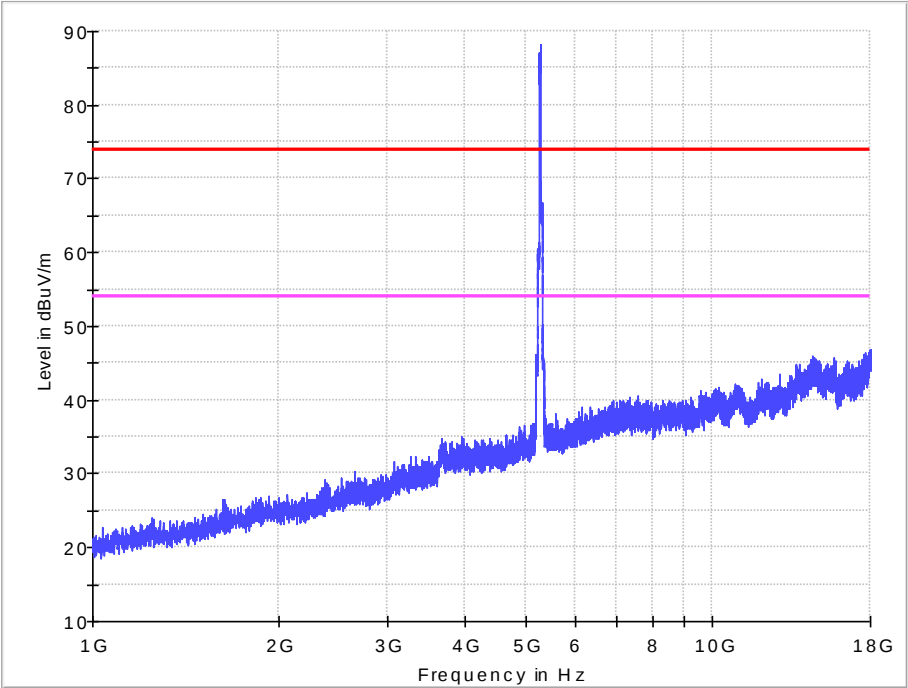
Vertical



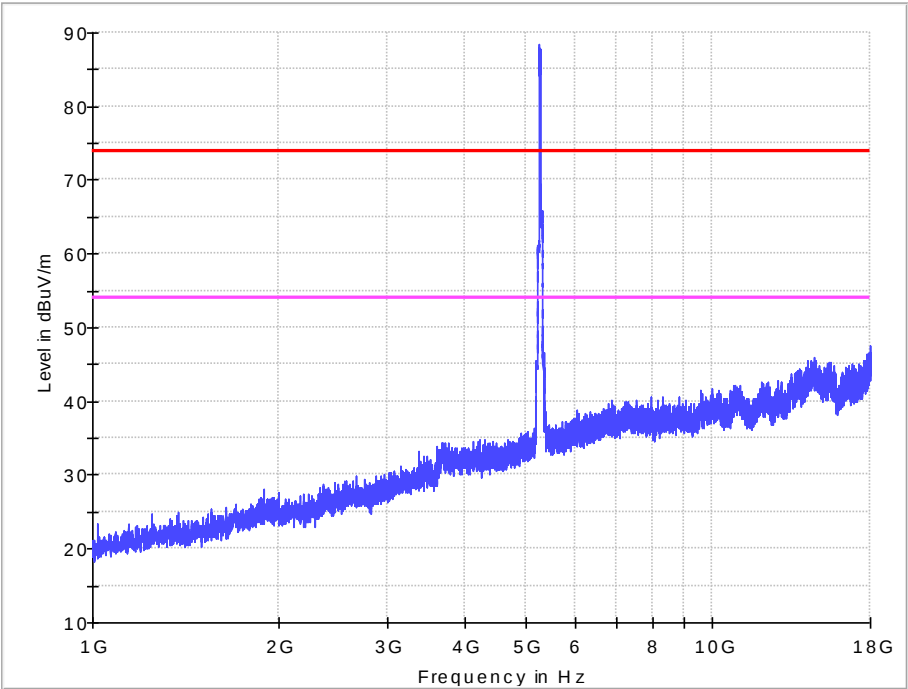
1-18G

802.11ax HEW40 IN THE 5.3GHz BAND  
CH54

Horizontal



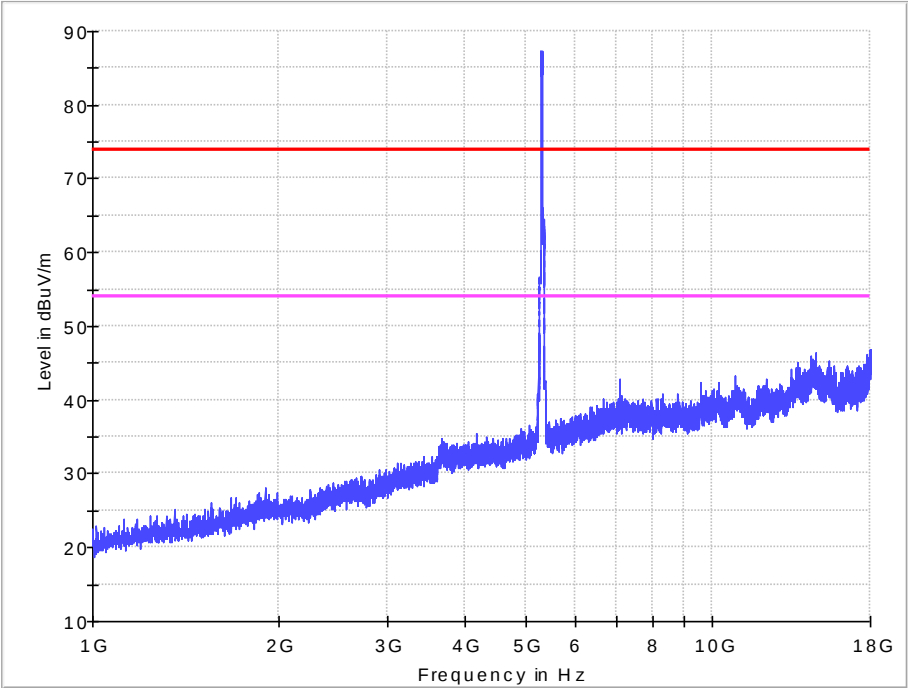
Vertical



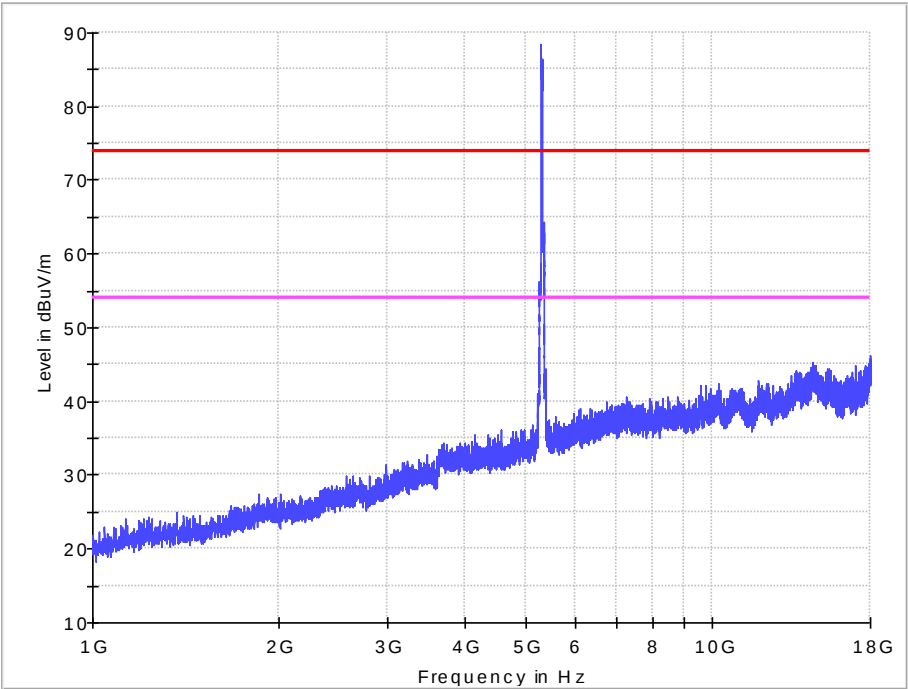
1-18G

802.11ax HEW40 IN THE 5.3GHz BAND  
CH62

Horizontal



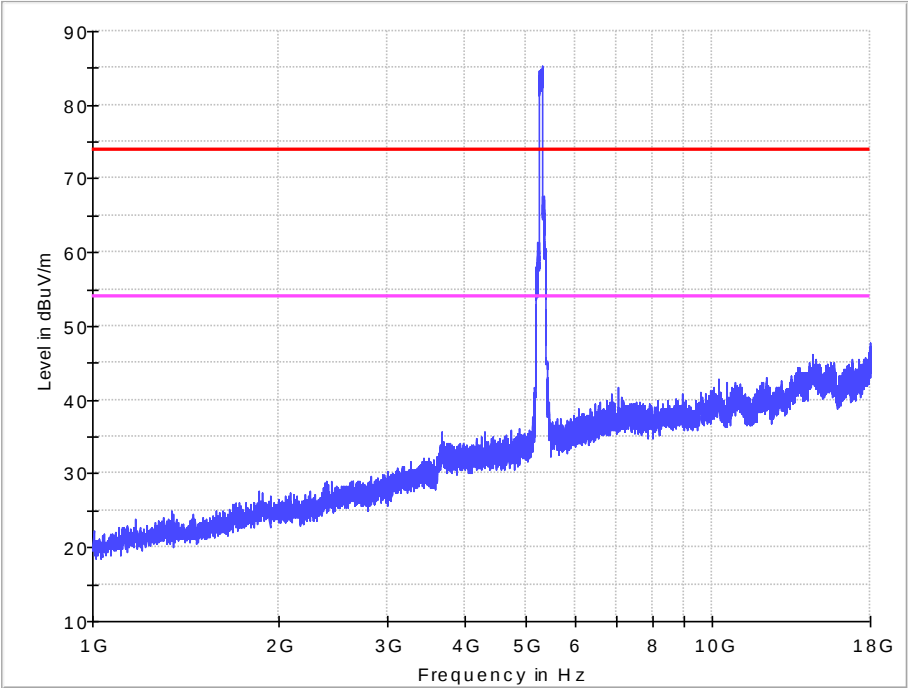
Vertical



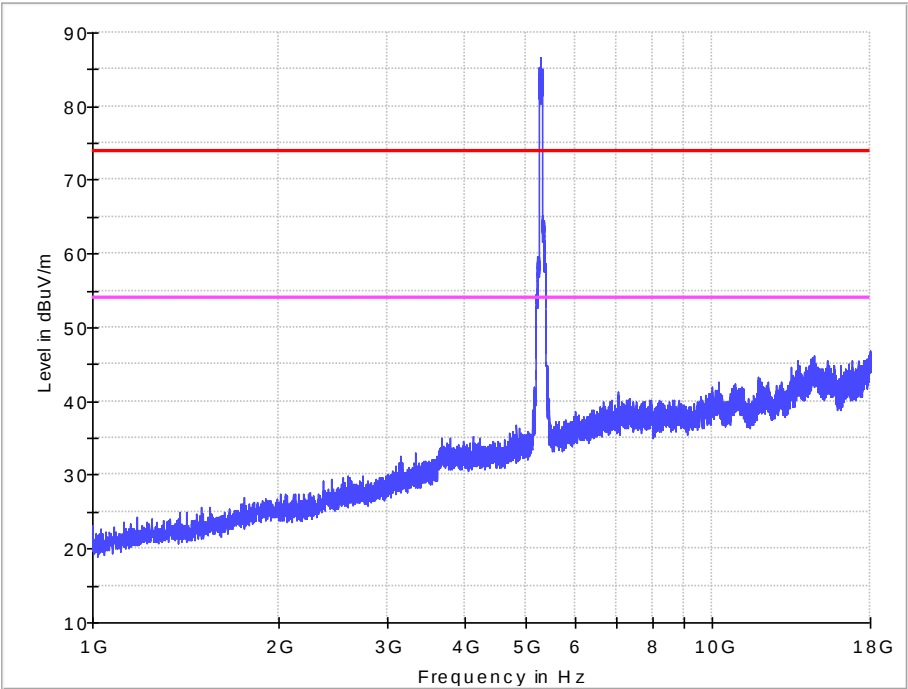
1-18G

802.11ax HEW80 IN THE 5.3GHz BAND  
CH58

Horizontal



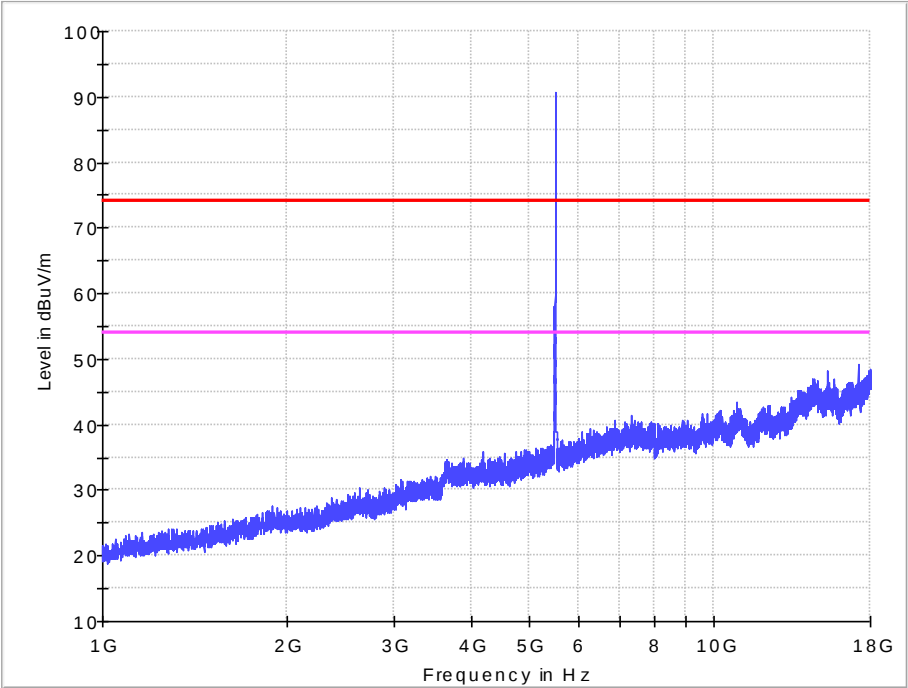
Vertical



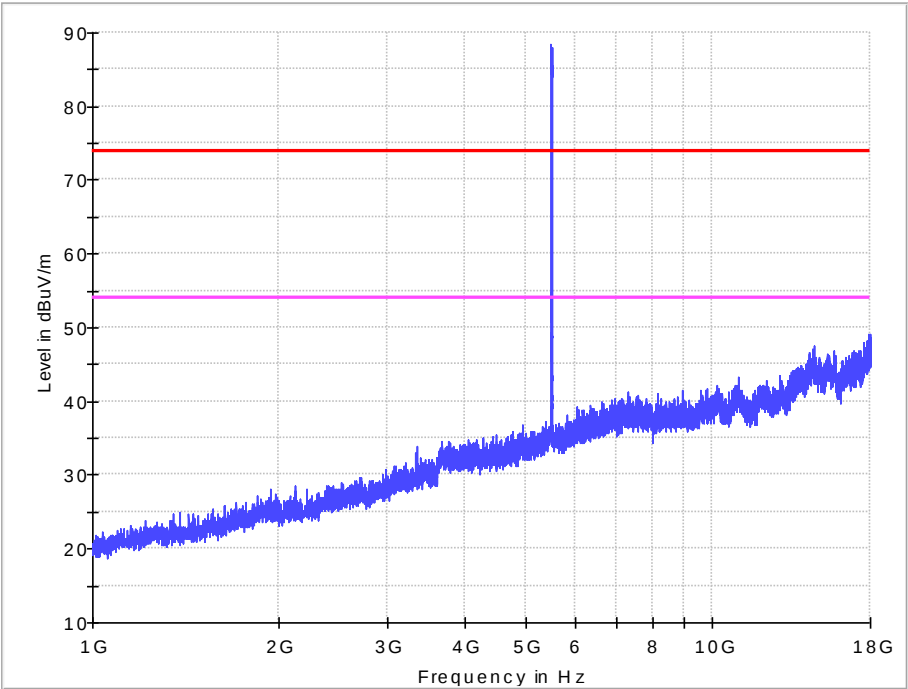
1-18G

11a IN THE 5.6GHz BAND  
CH100

Horizontal



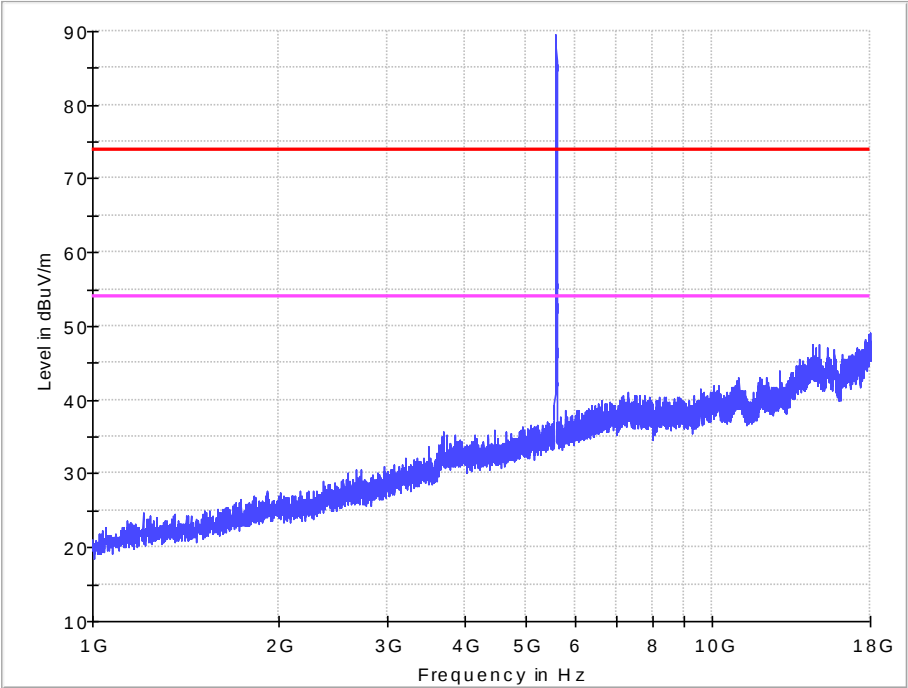
Vertical



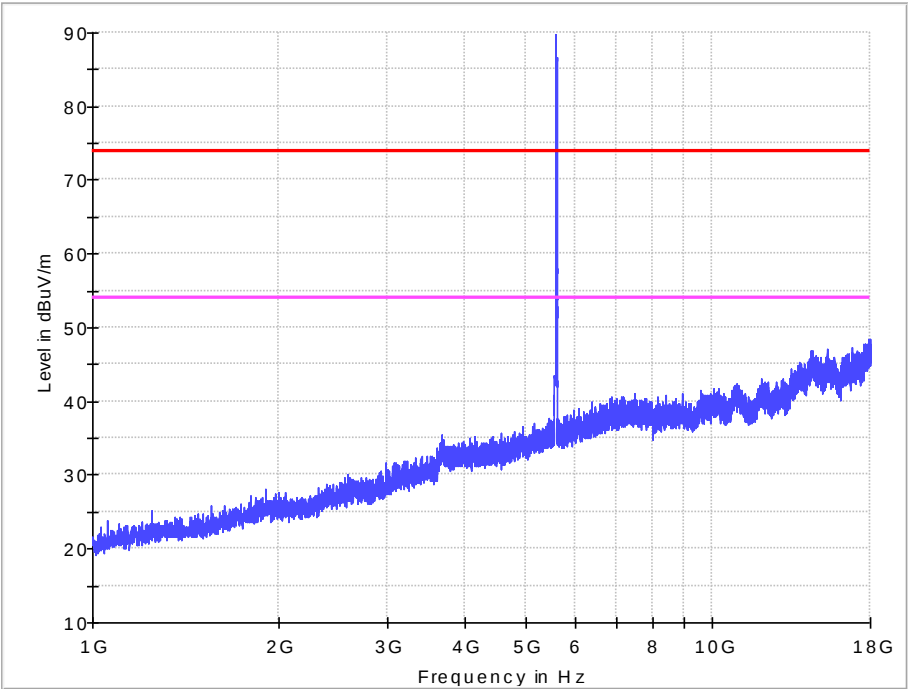
1-18G

11a IN THE 5.6GHz BAND  
CH120

Horizontal



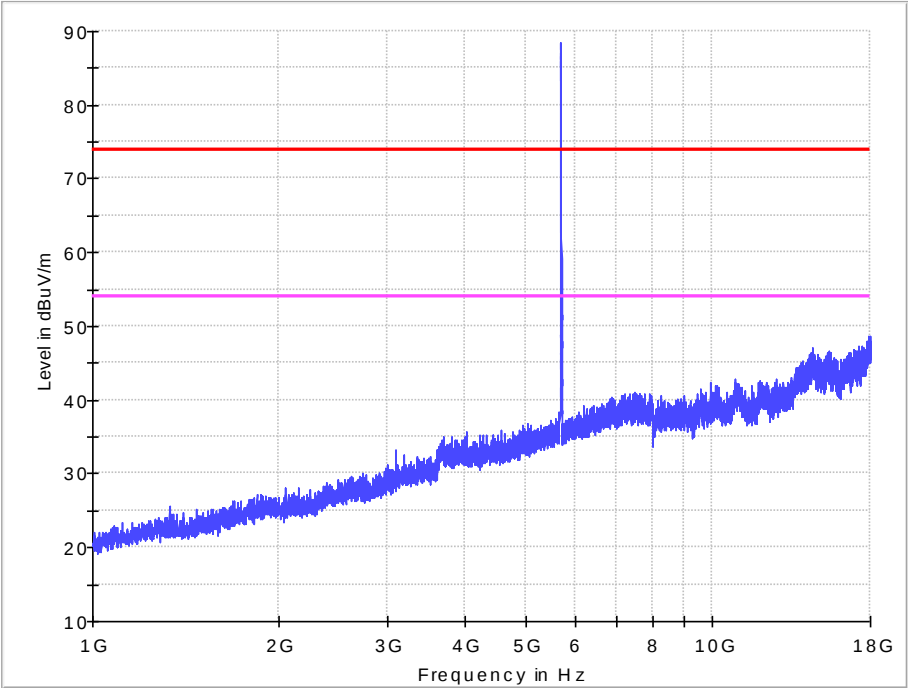
Vertical



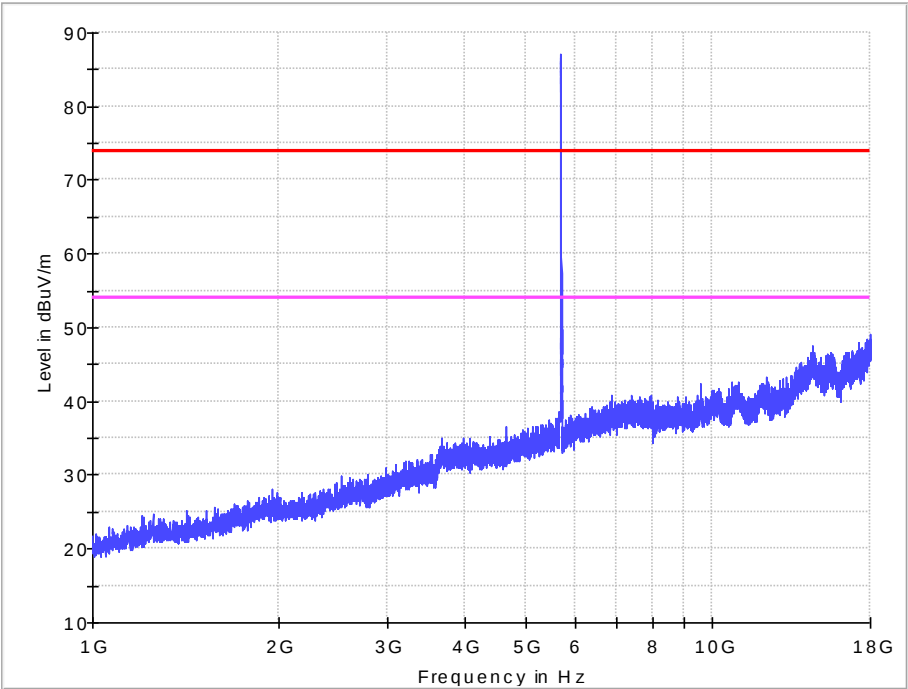
1-18G

11a IN THE 5.6GHz BAND  
CH140

Horizontal



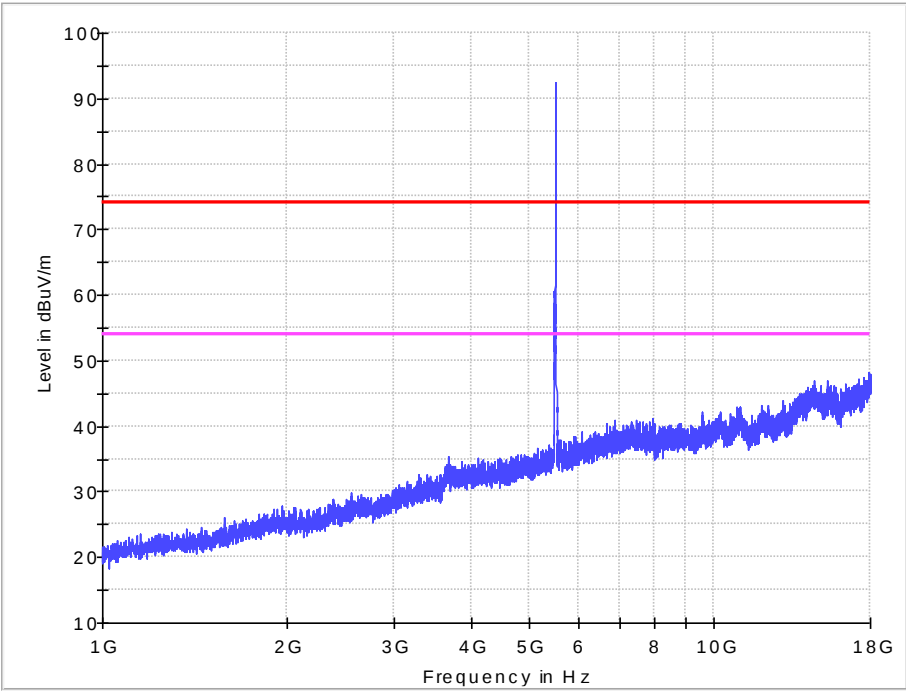
Vertical



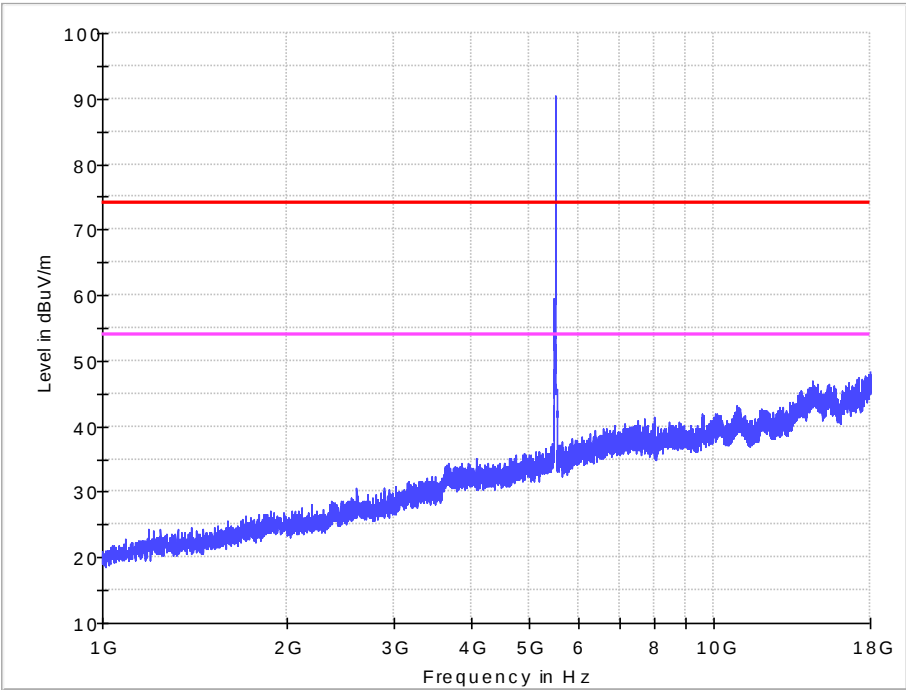
1-18G

11n HT20 IN THE 5.6GHz BAND  
CH100

Horizontal



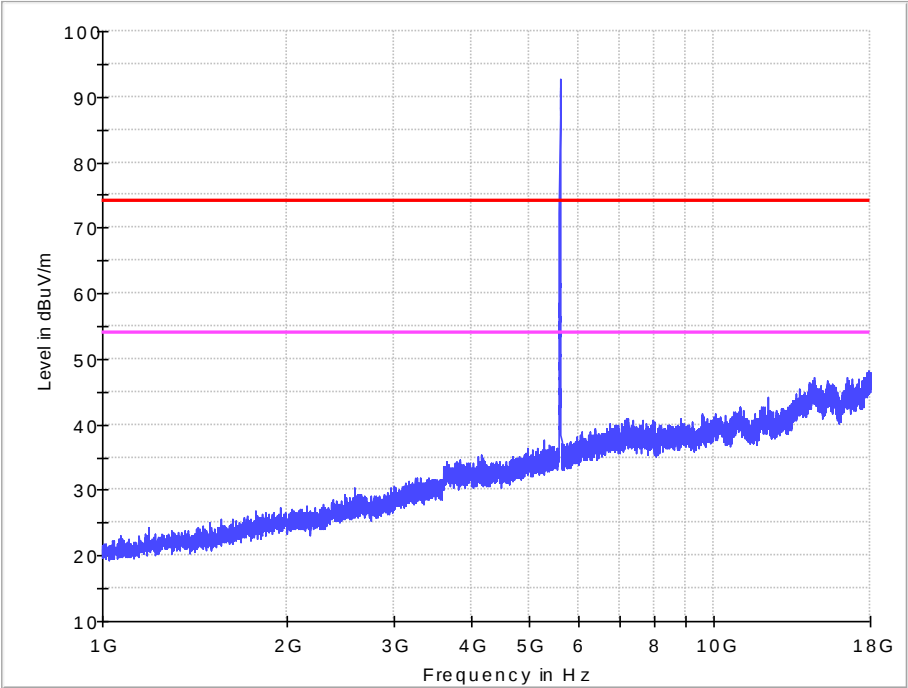
Vertical



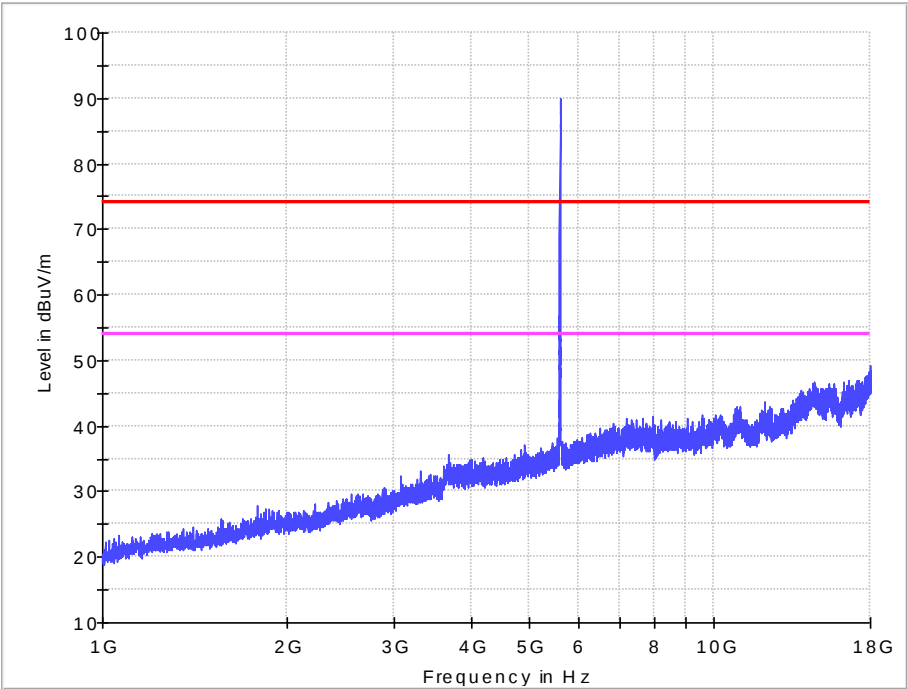
1-18G

11n HT20 IN THE 5.6GHz BAND  
CH120

Horizontal



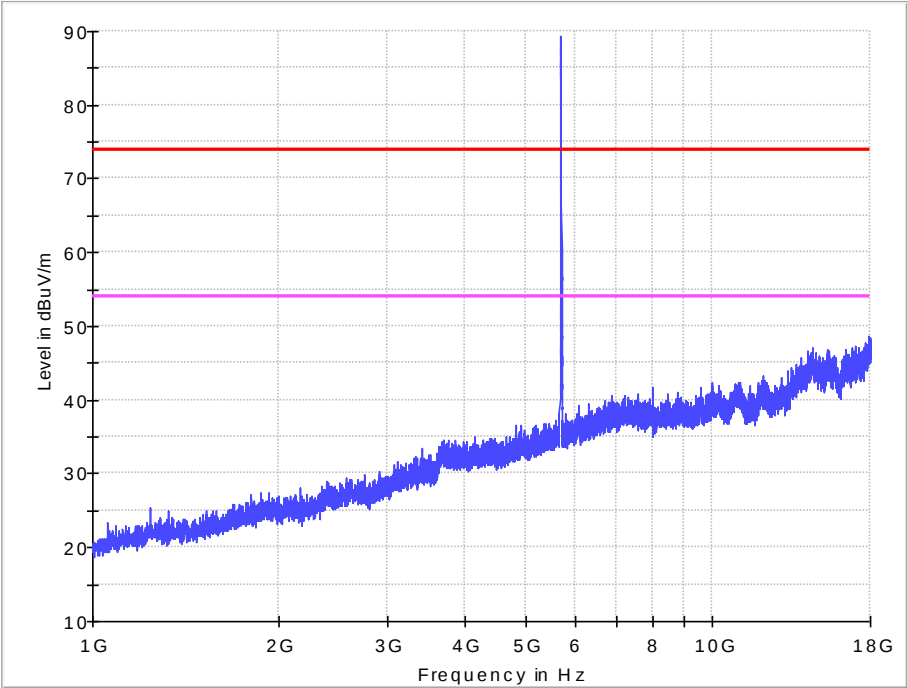
Vertical



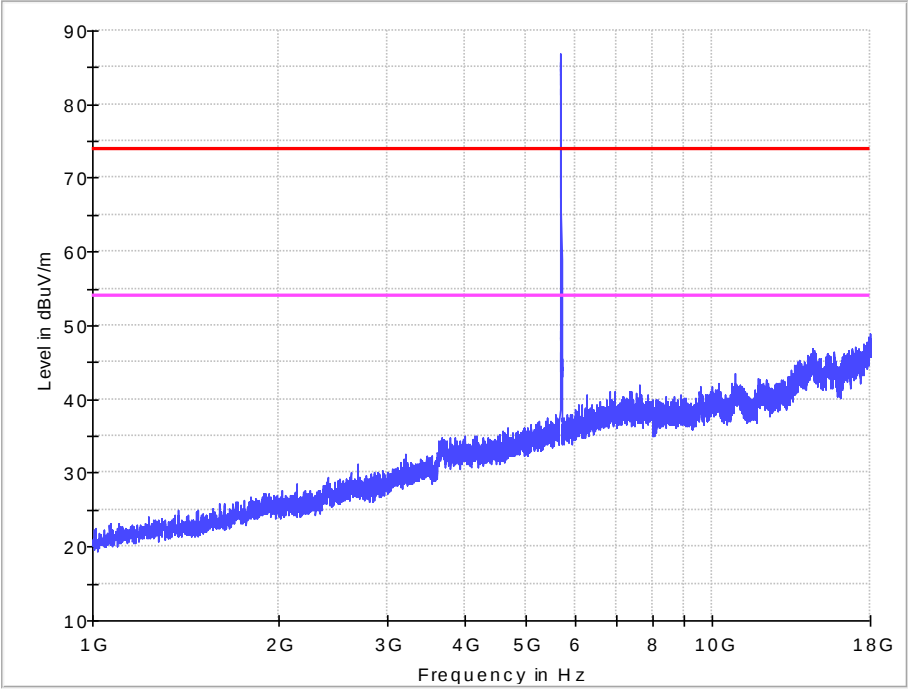
1-18G

11n HT20 IN THE 5.6GHz BAND  
CH140

Horizontal



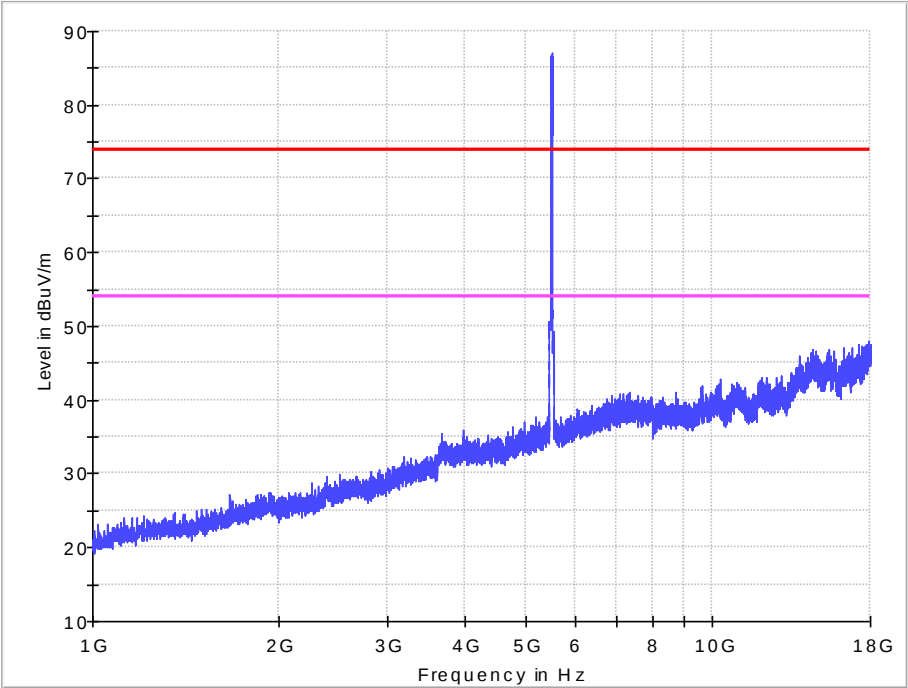
Vertical



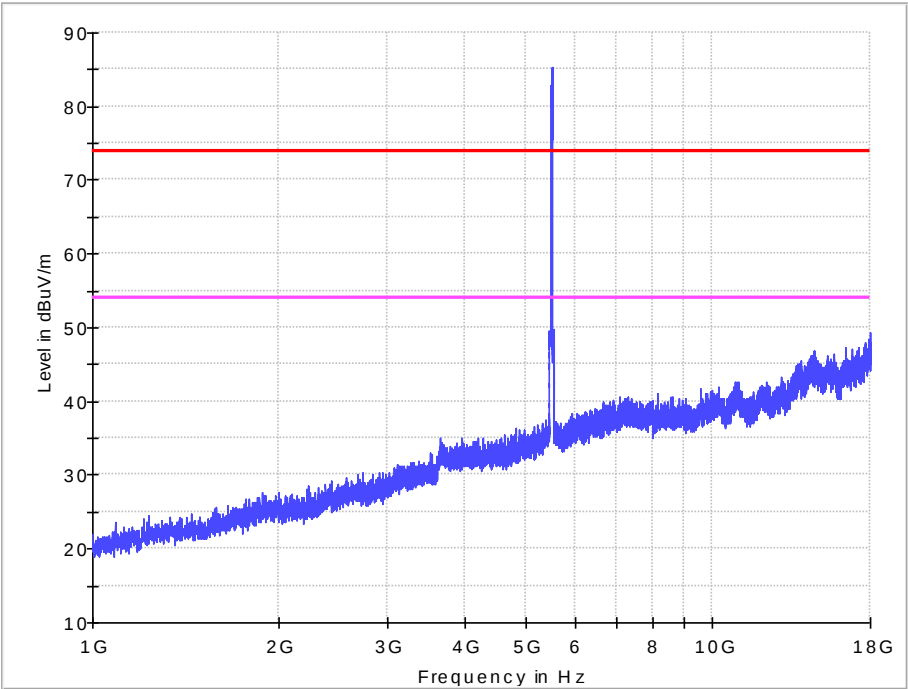
1-18G

11n HT40 IN THE 5.6GHz BAND  
CH102

Horizontal



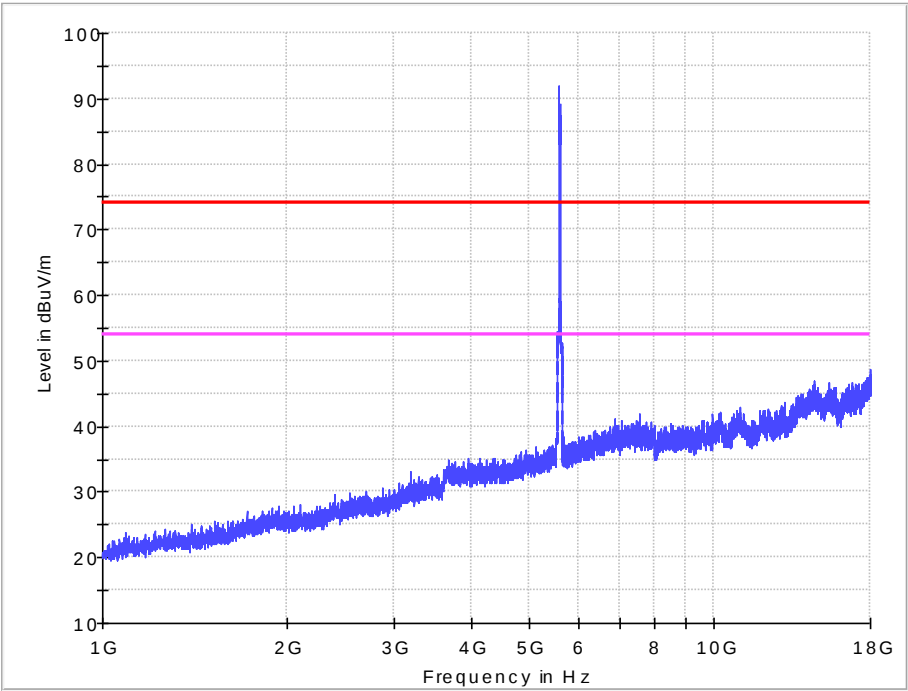
Vertical



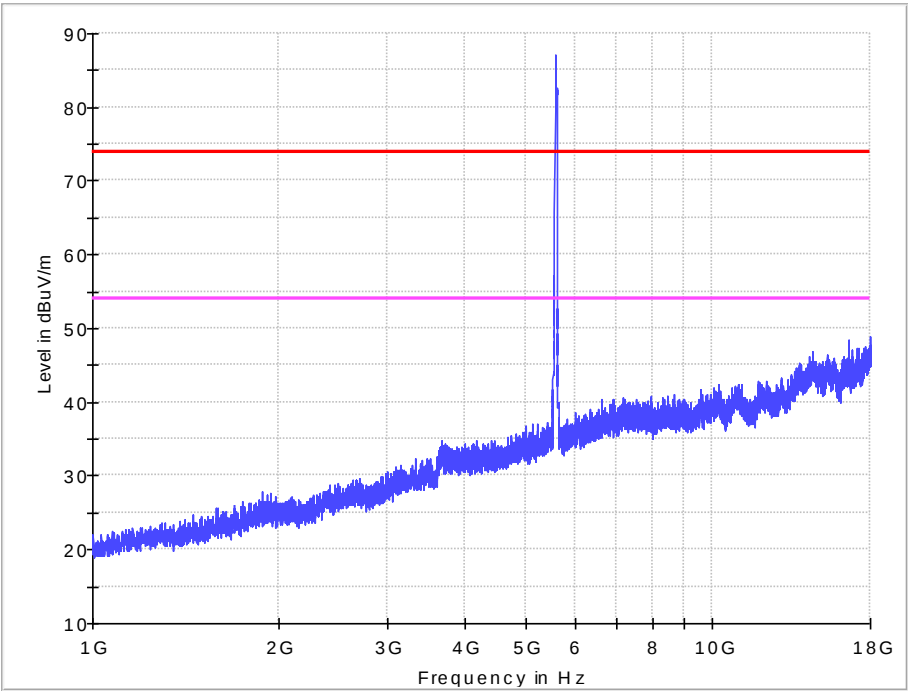
1-18G

11n HT40 IN THE 5.6GHz BAND  
CH118

Horizontal



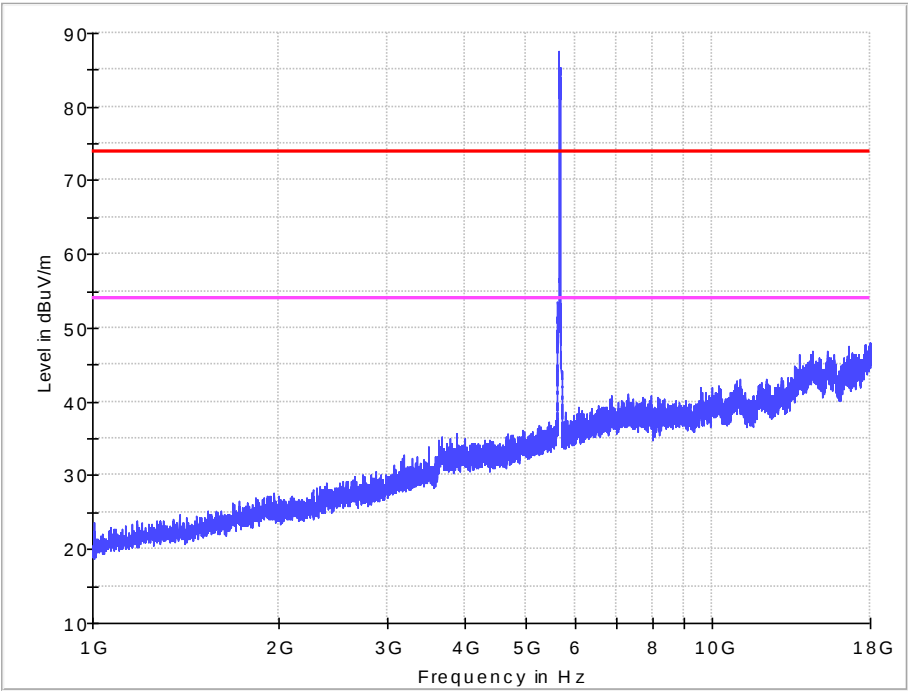
Vertical



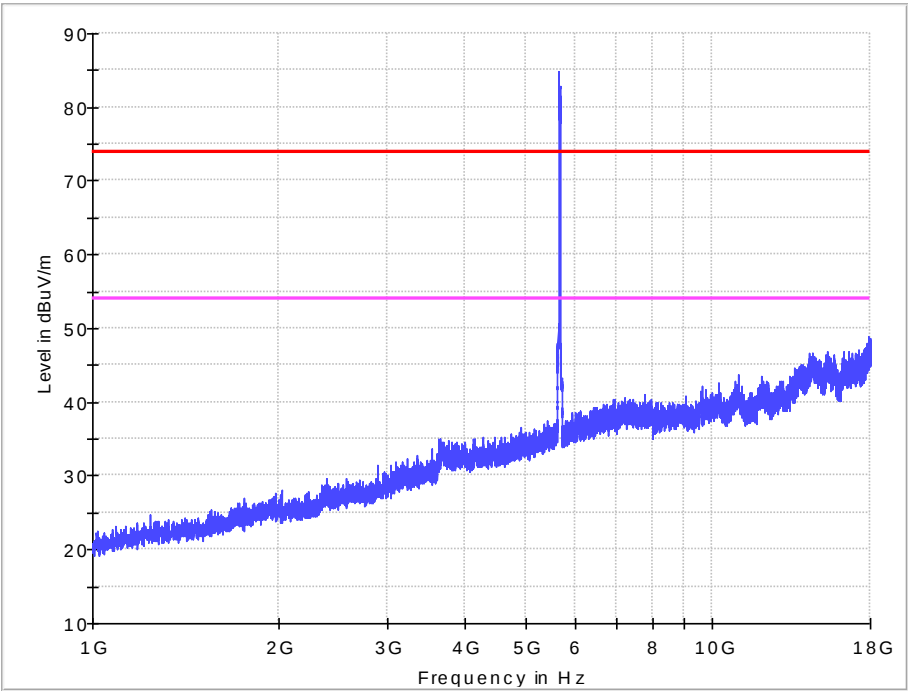
1-18G

11n HT40 IN THE 5.6GHz BAND  
CH134

Horizontal



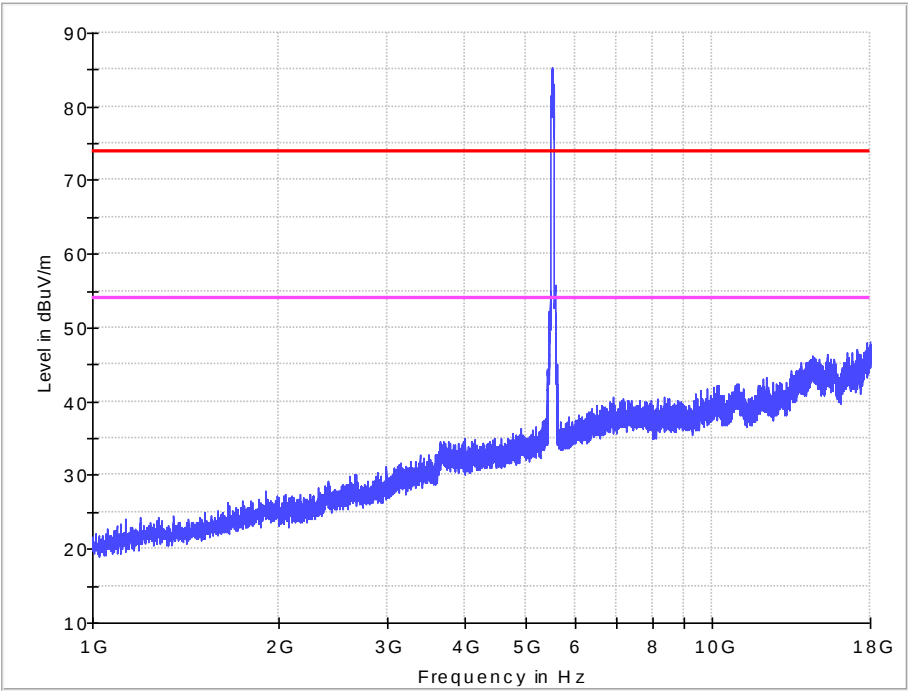
Vertical



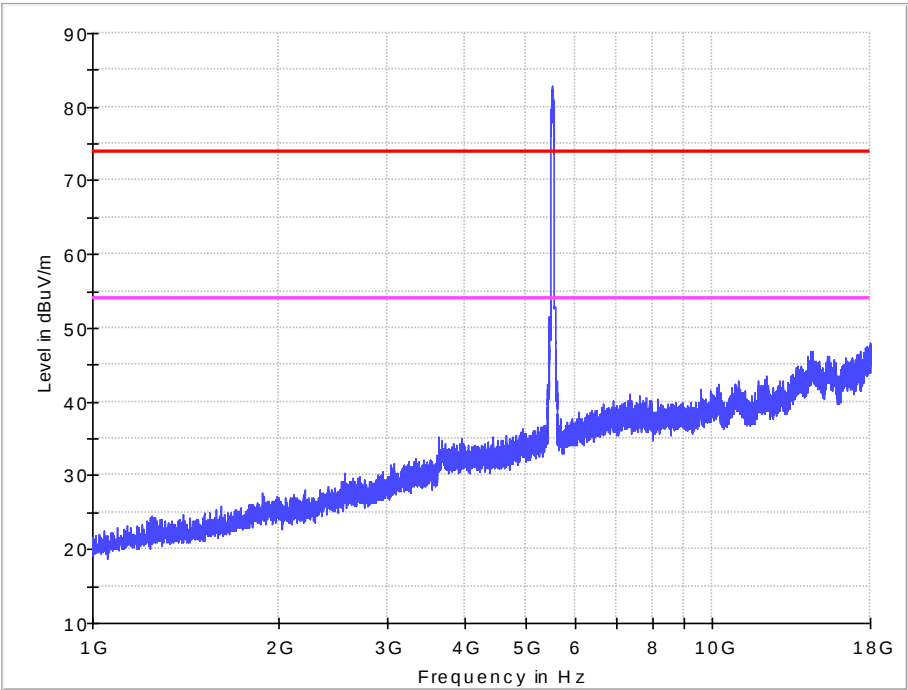
1-18G

11ac VHT80 IN THE 5.6GHz BAND  
CH106

Horizontal



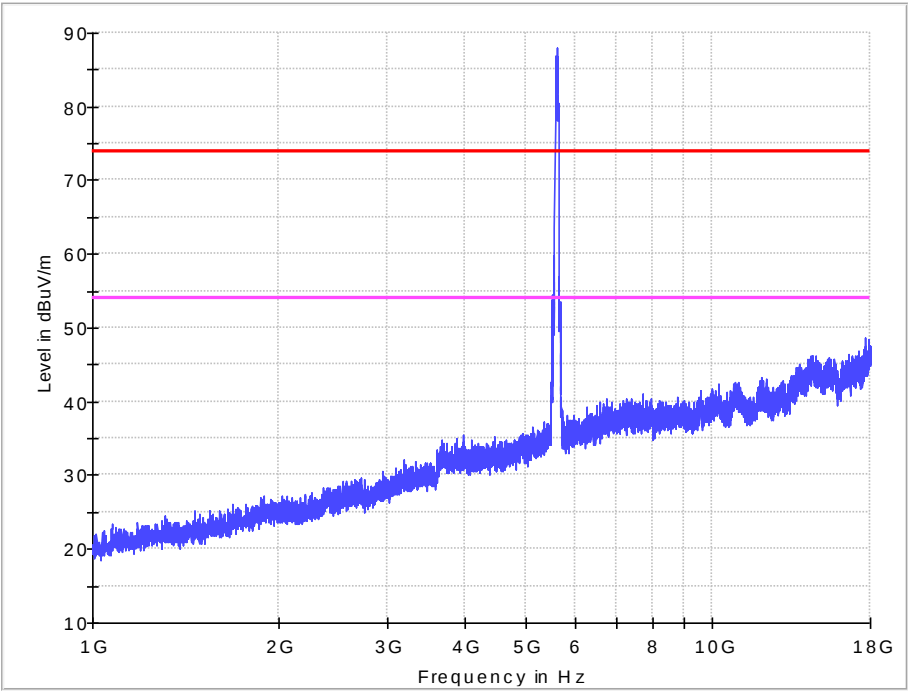
Vertical



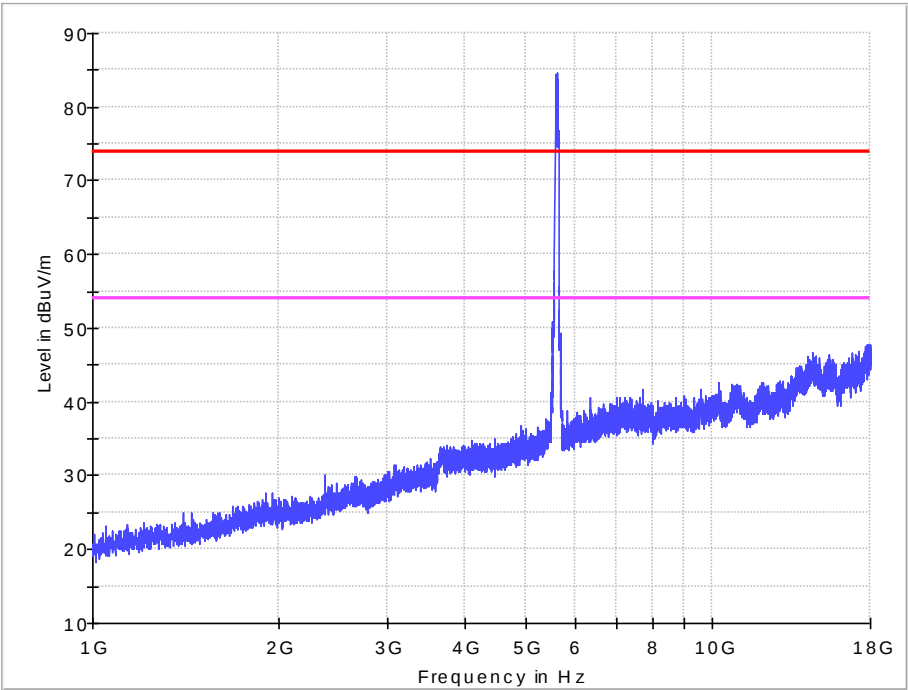
1-18G

11ac VHT80 IN THE 5.6GHz BAND  
CH122

Horizontal

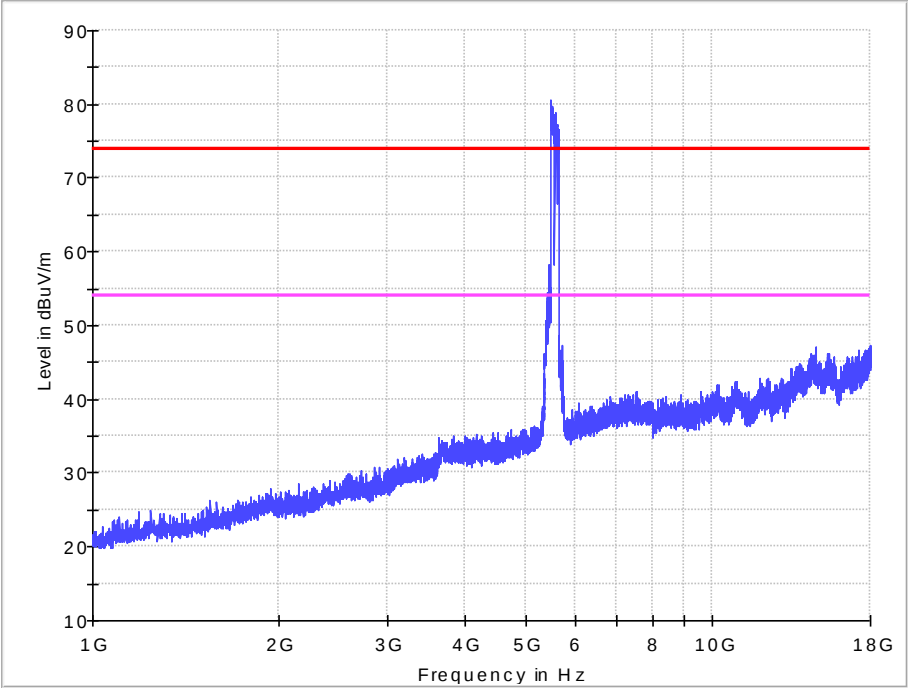


Vertical

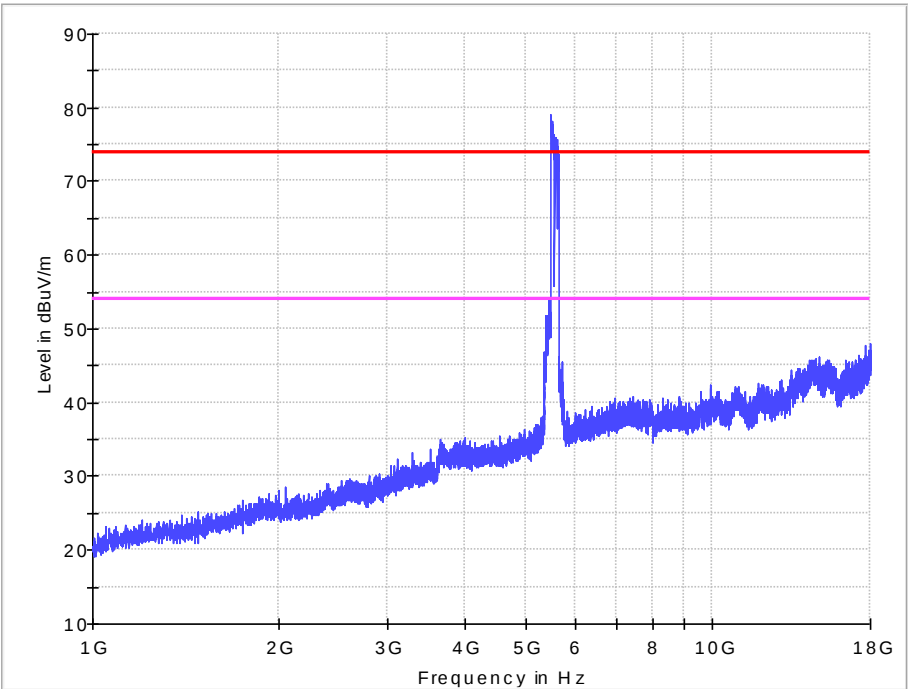


1-18G

11ac VHT160 IN THE 5.6GHz BAND  
CH114  
Horizontal



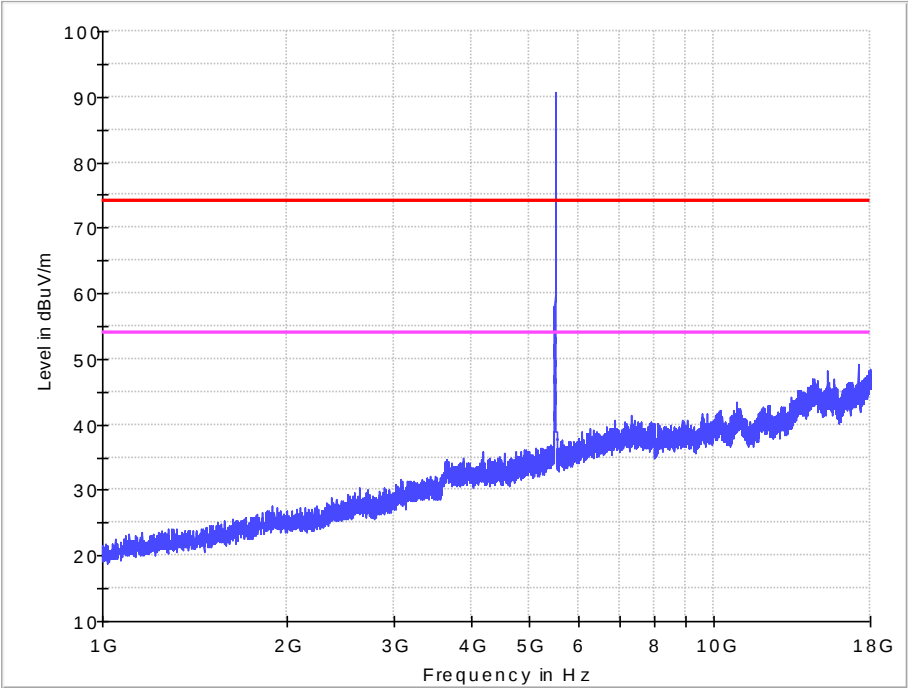
Vertical



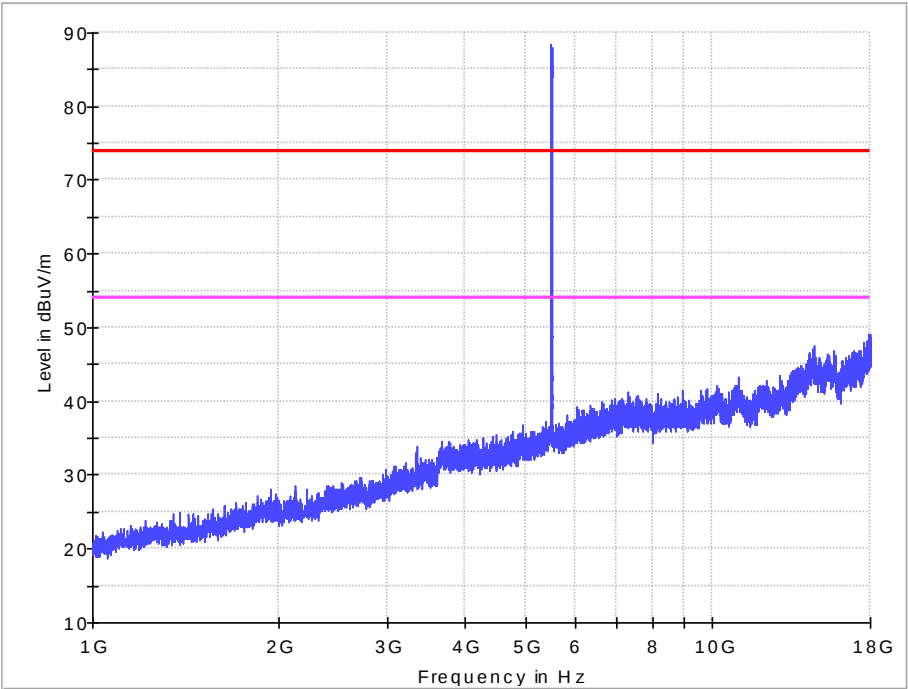
1-18G

802.11ax HEW20 IN THE 5.6GHz BAND  
CH100

Horizontal



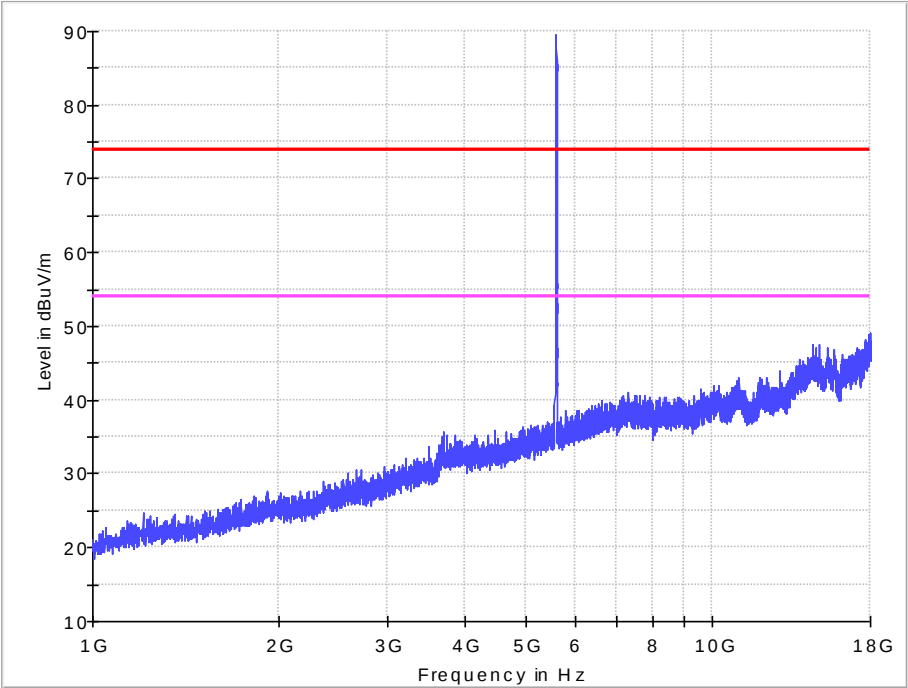
Vertical



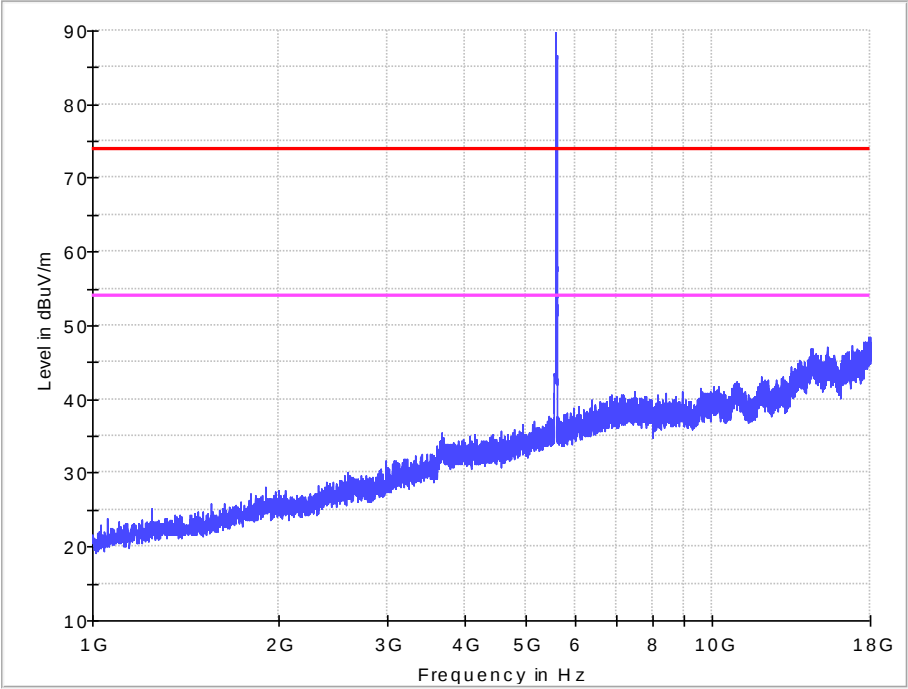
1-18G

802.11ax HEW20 IN THE 5.6GHz BAND  
CH120

Horizontal



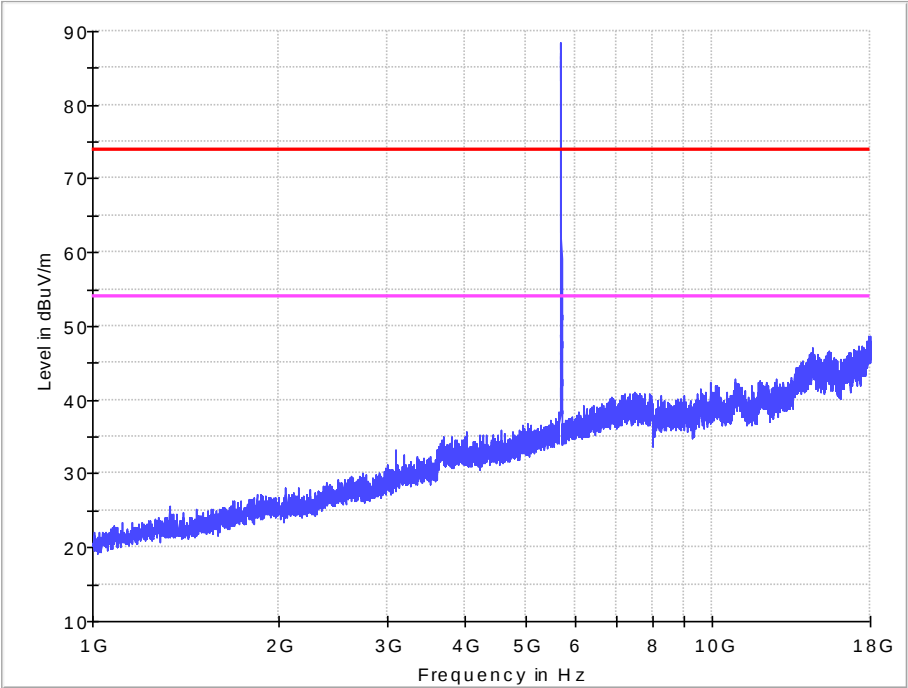
Vertical



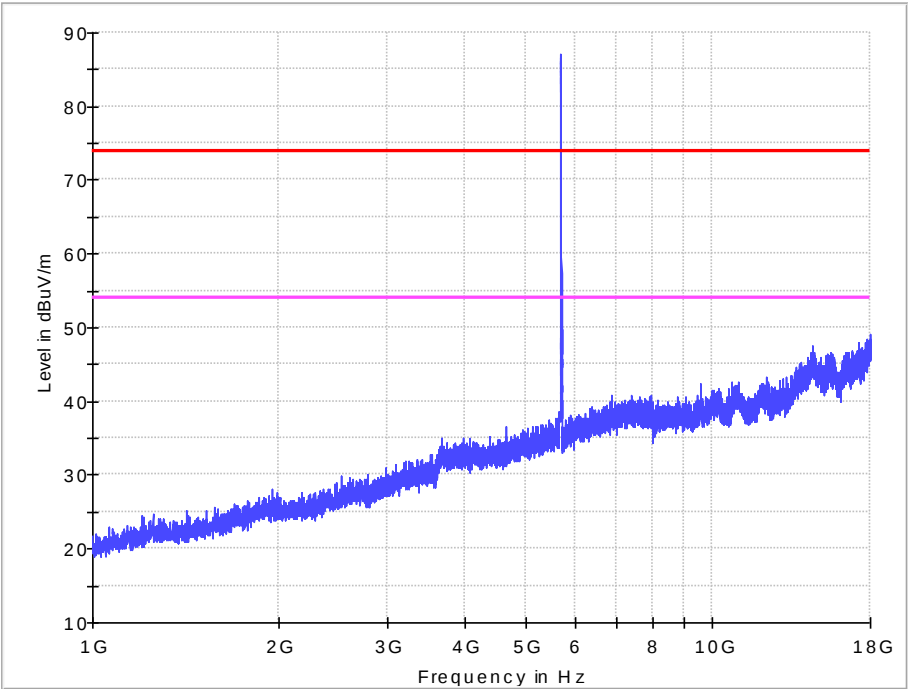
1-18G

802.11ax HEW20 IN THE 5.6GHz BAND  
CH140

Horizontal



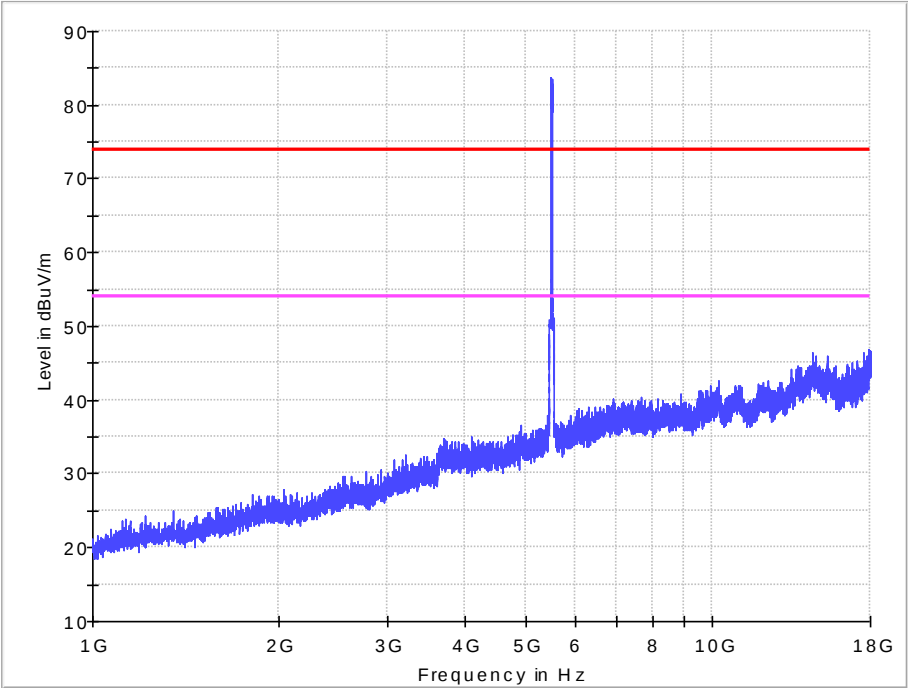
Vertical



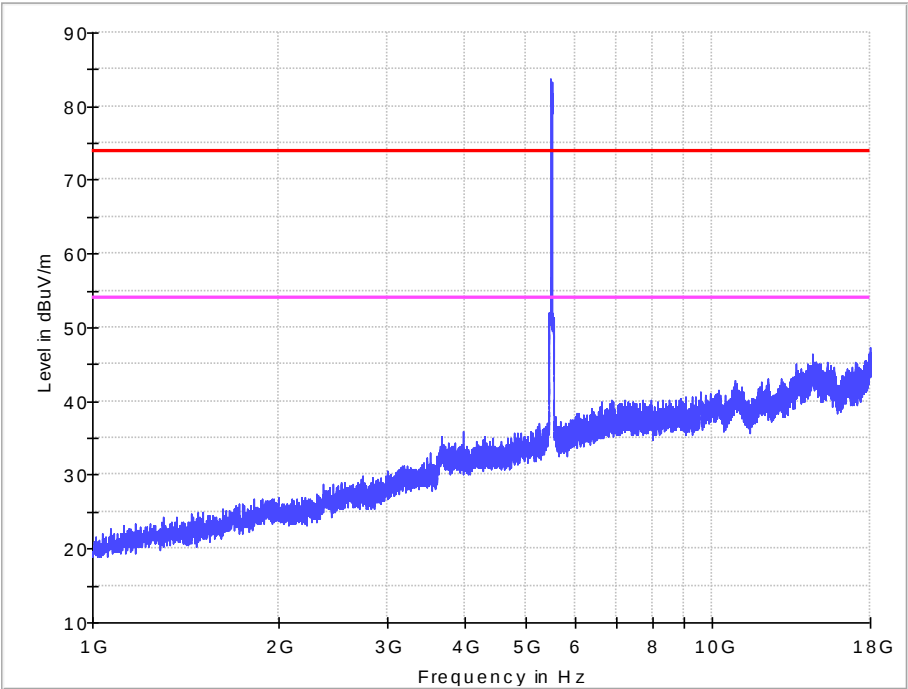
1-18G

802.11ax HEW40 IN THE 5.6GHz BAND  
CH102

Horizontal



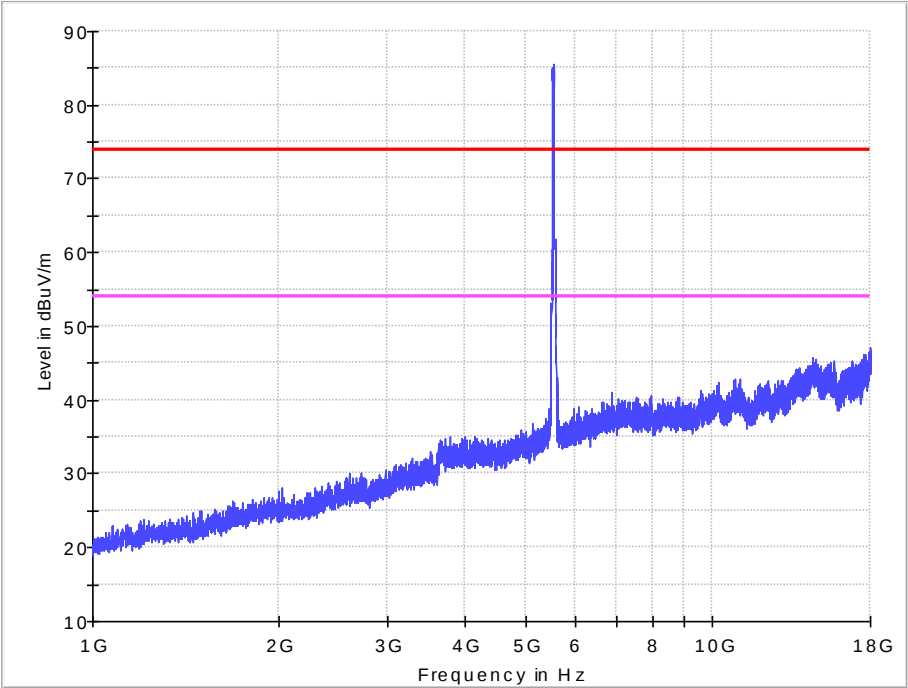
Vertical



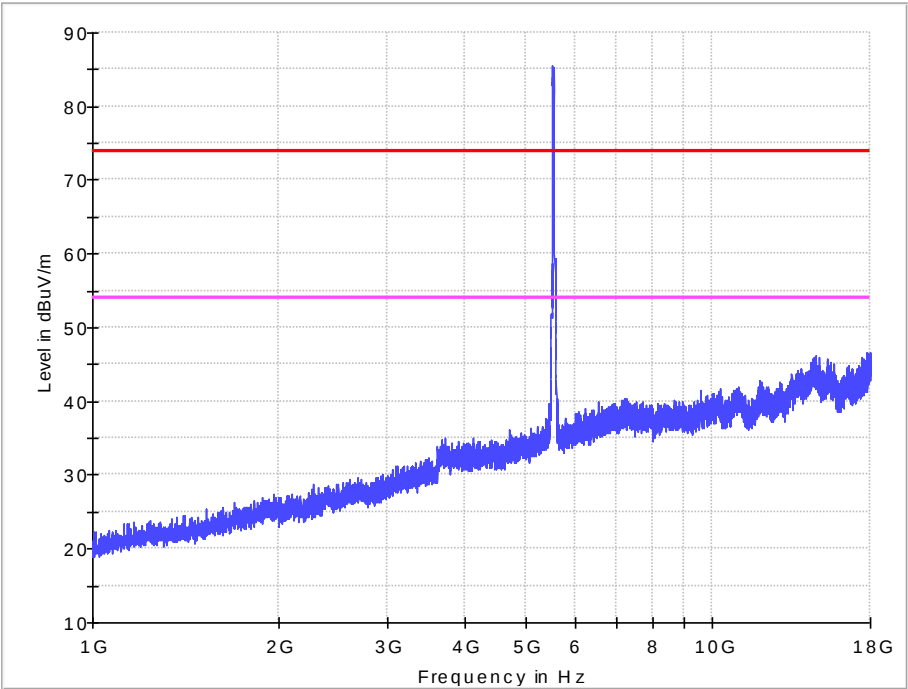
1-18G

802.11ax HEW40 IN THE 5.6GHz BAND  
CH110

Horizontal



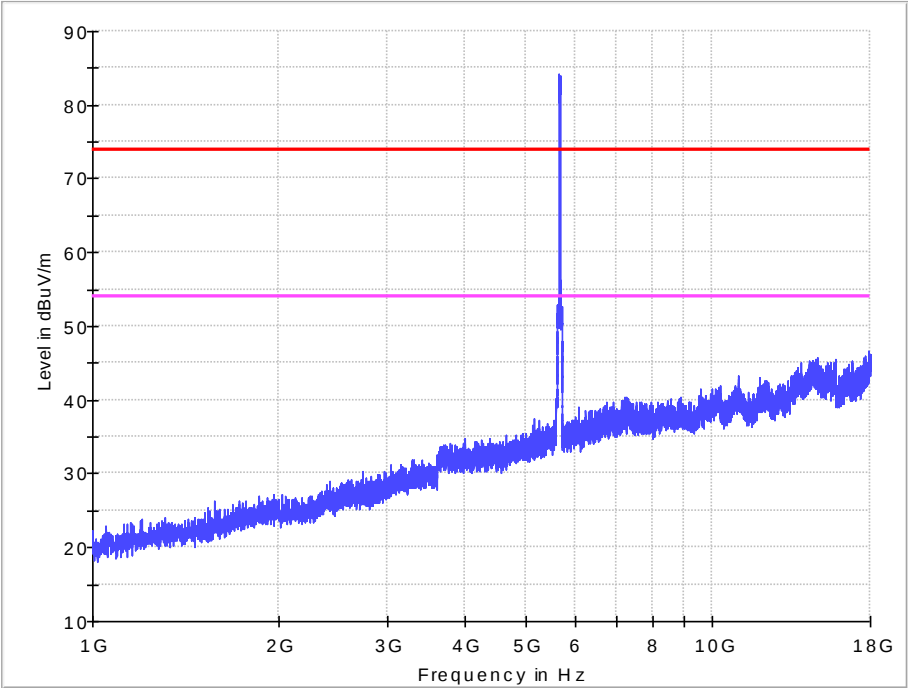
Vertical



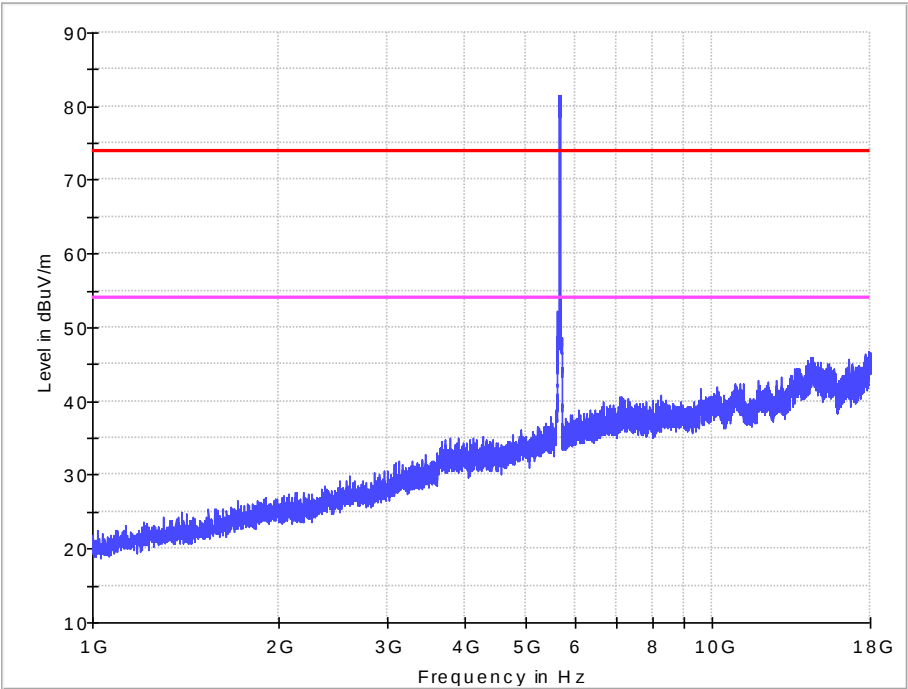
1-18G

802.11ax HEW40 IN THE 5.6GHz BAND  
CH134

Horizontal



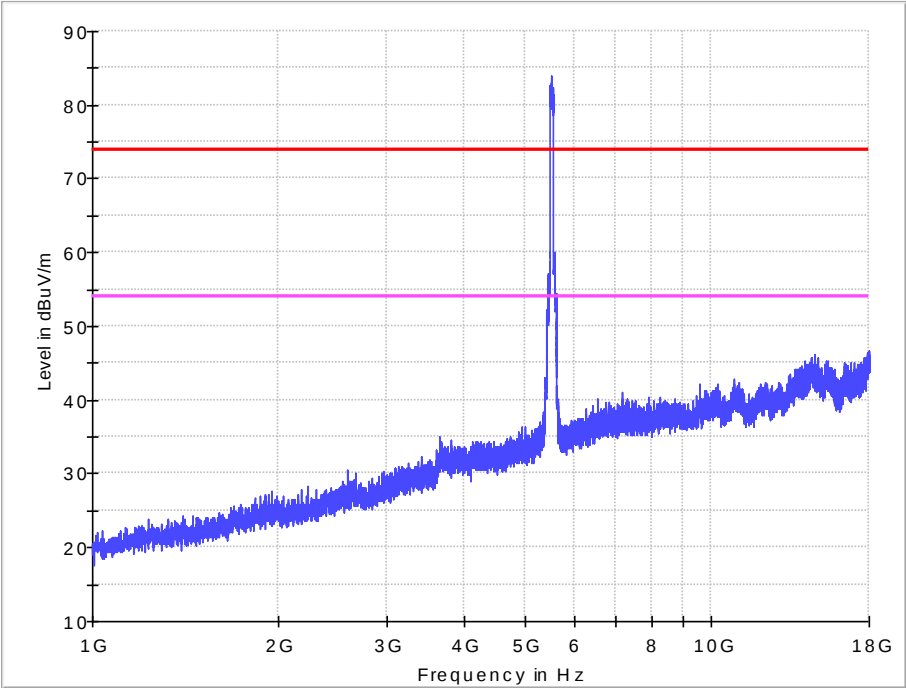
Vertical



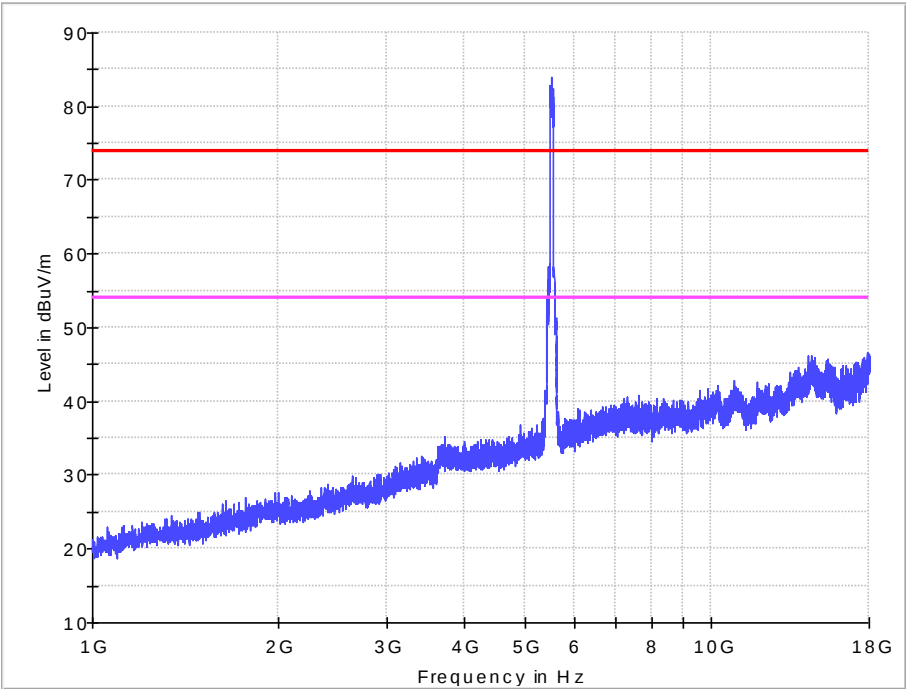
1-18G

802.11ax HEW80 IN THE 5.6GHz BAND  
CH106

Horizontal



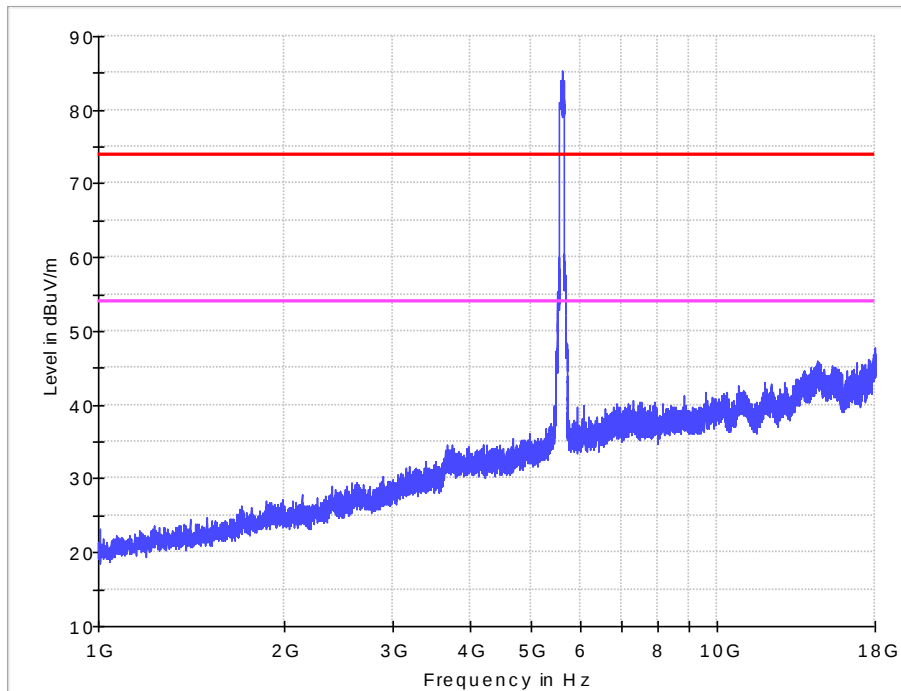
Vertical



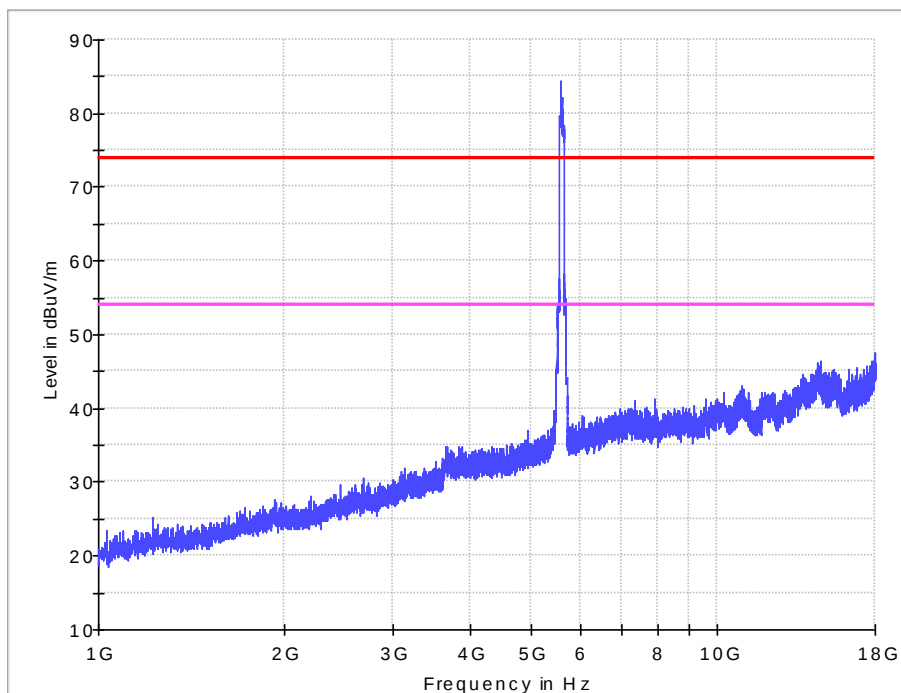
1-18G

802.11ax HEW80 IN THE 5.6GHz BAND  
CH122

Horizontal



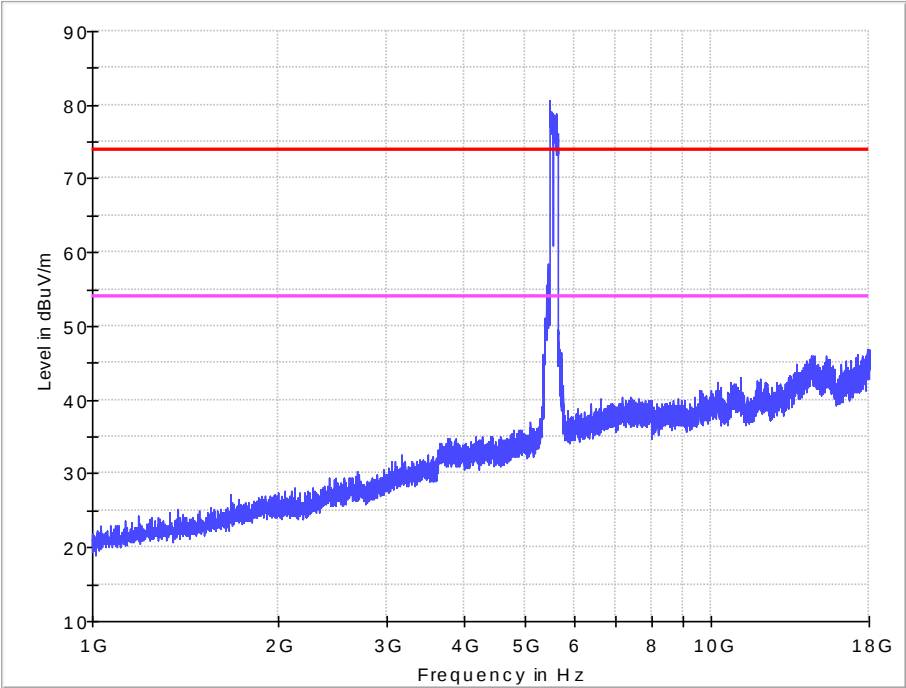
Vertical



1-18G

802.11ax HEW160 IN THE 5.6GHz BAND  
CH114

Horizontal



Vertical

