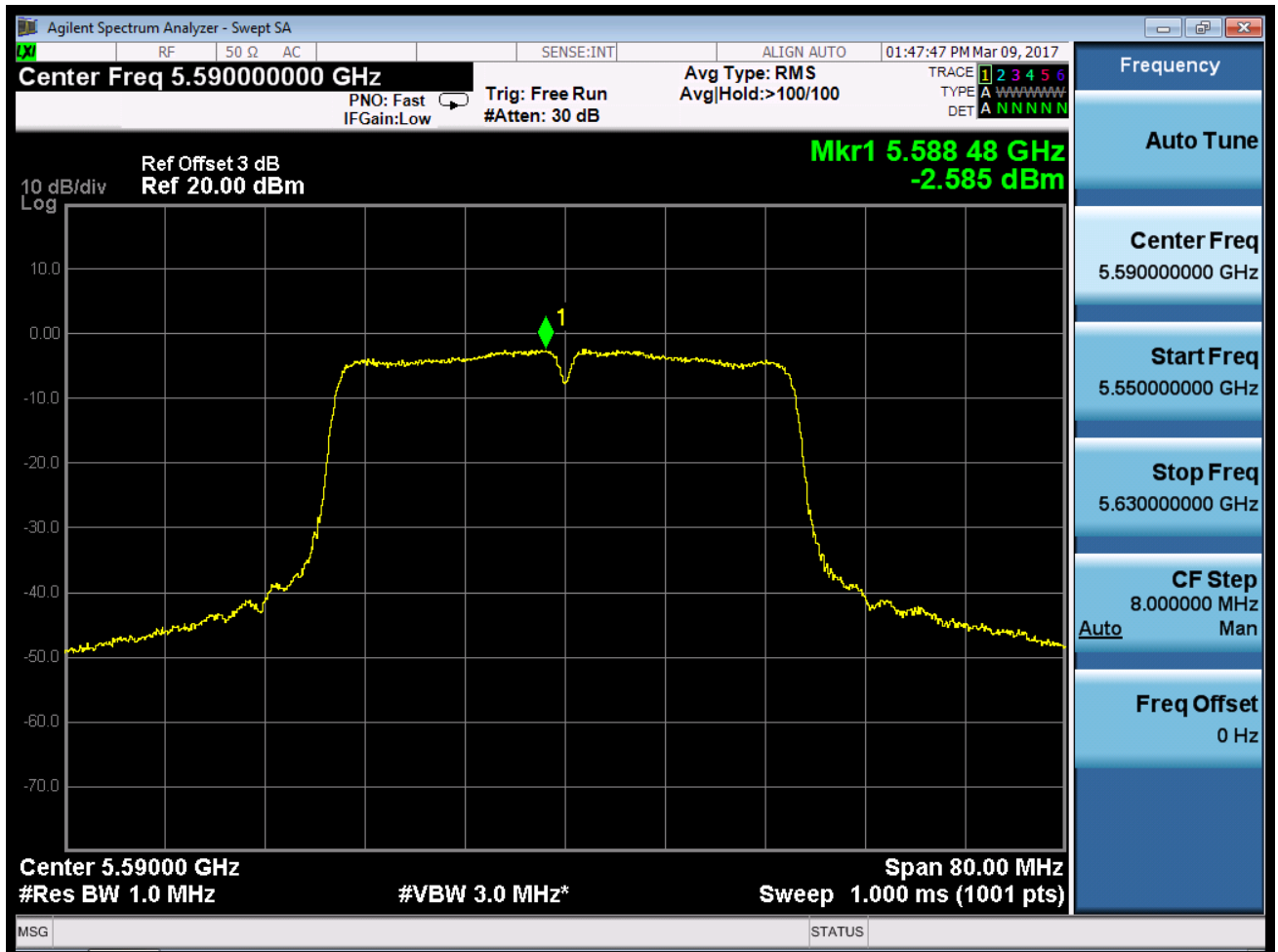
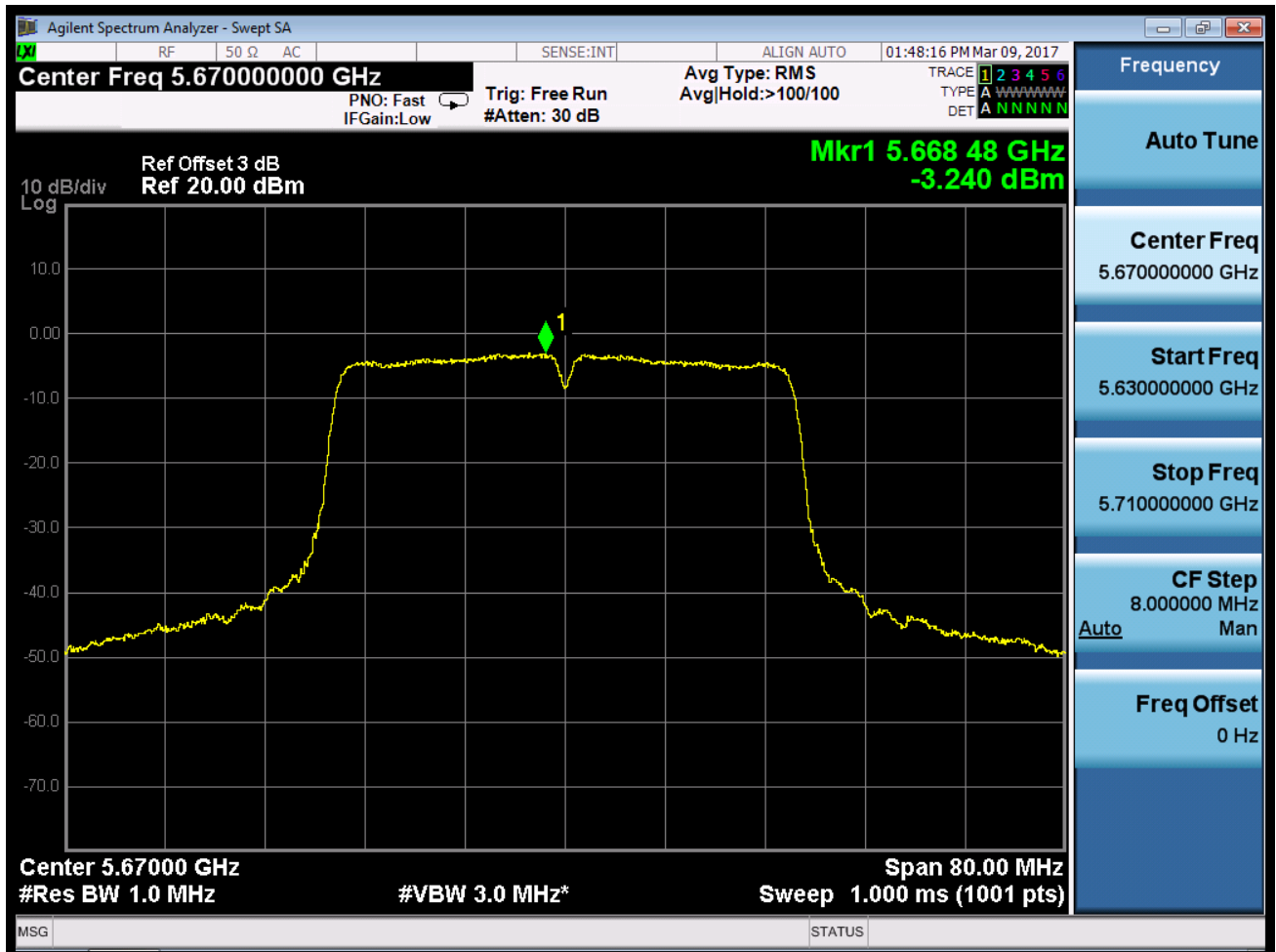




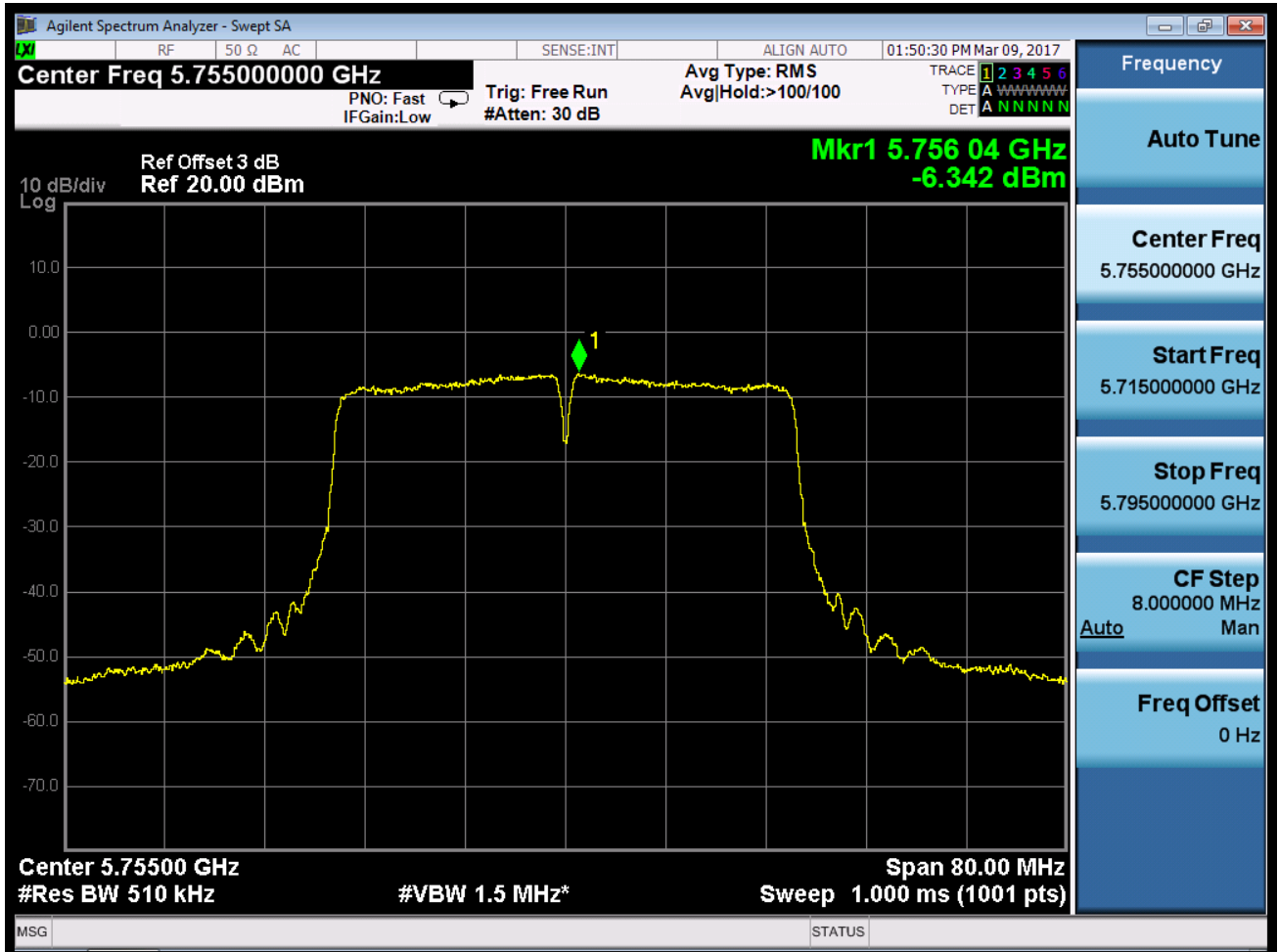
Produkte  
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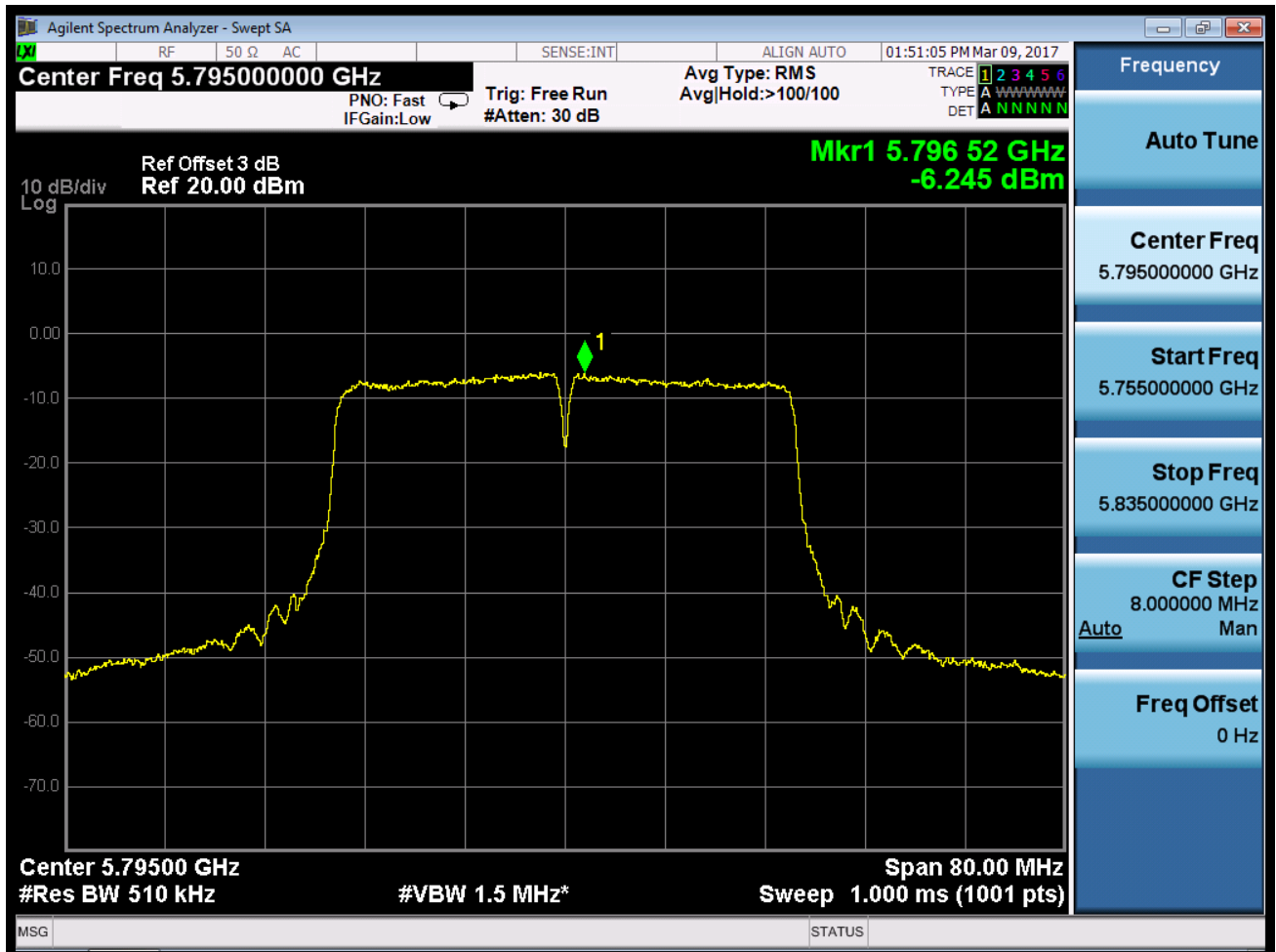
Produkte  
Products



Produkte  
Products

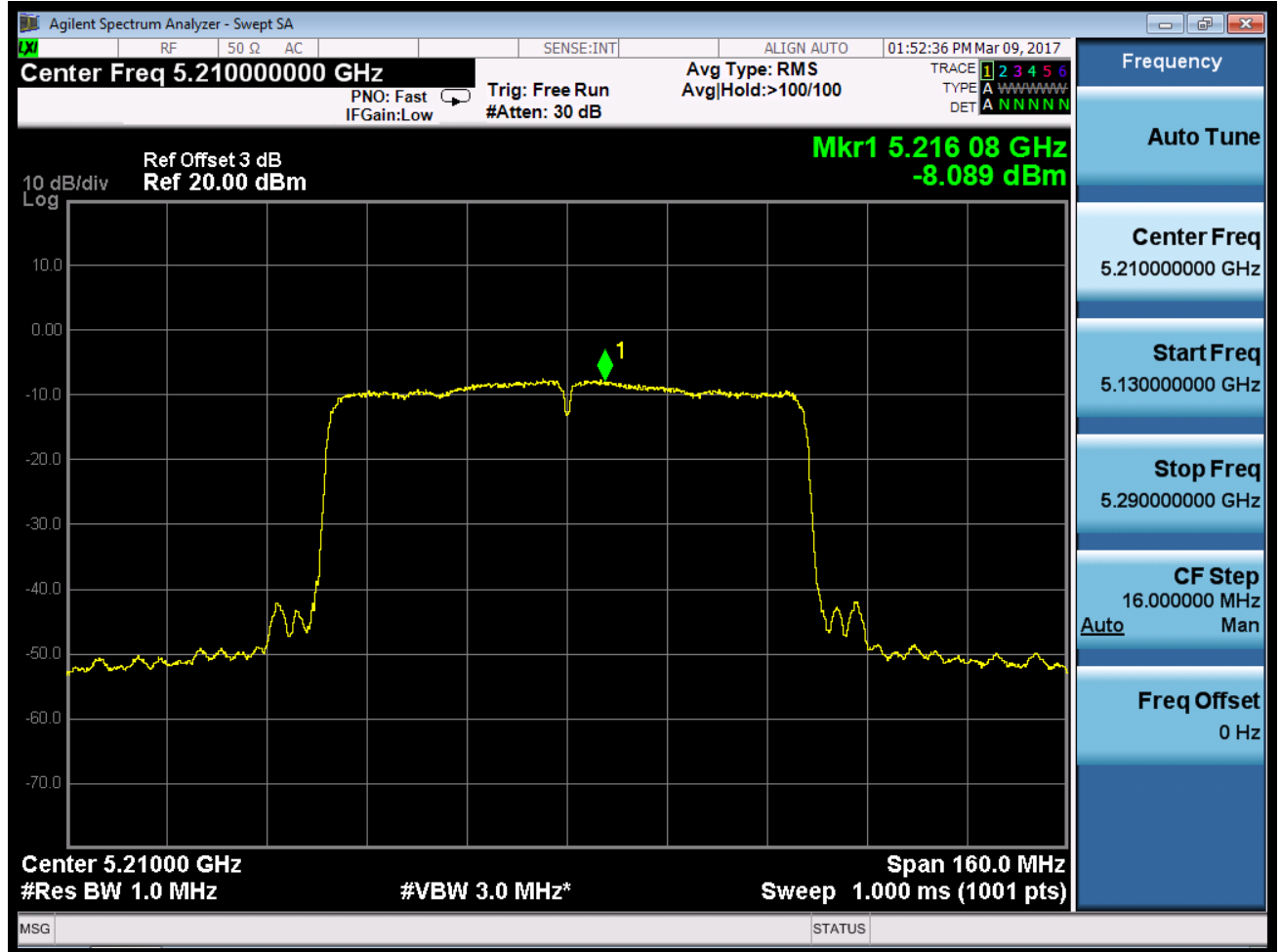


Produkte  
 Products

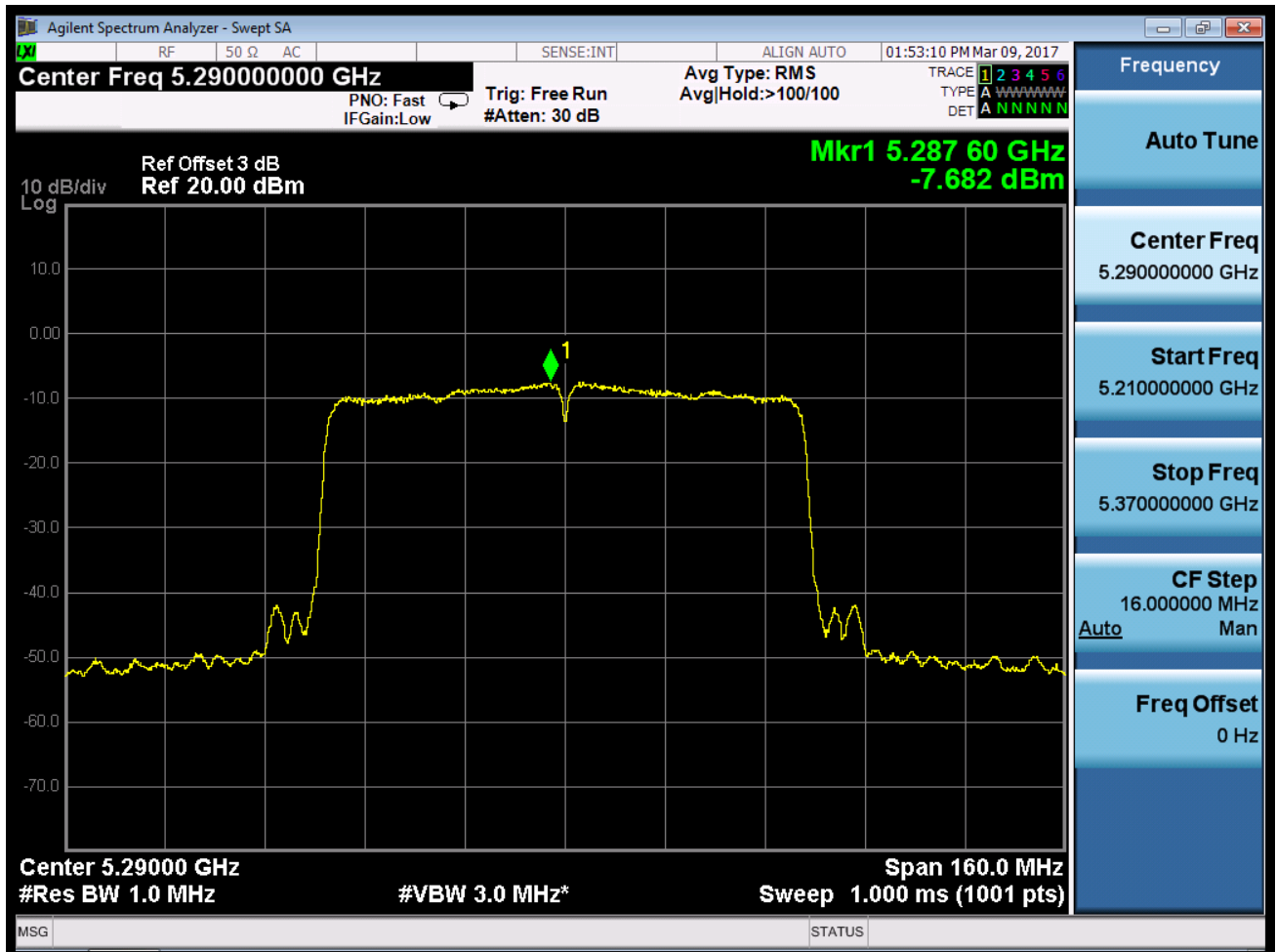


Produkte  
Products

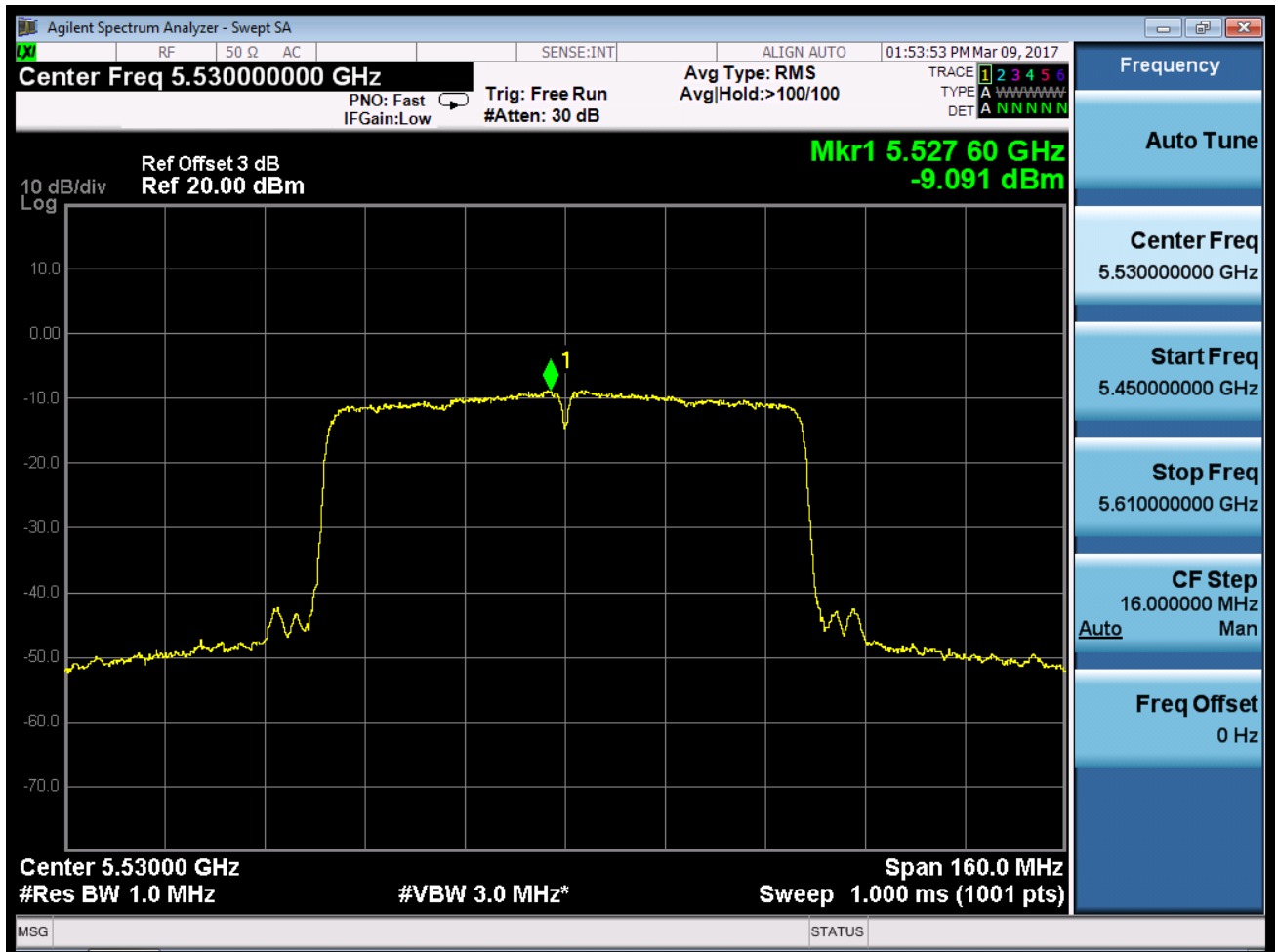
802.11ac80, MIMO, Ant0



Produkte  
Products

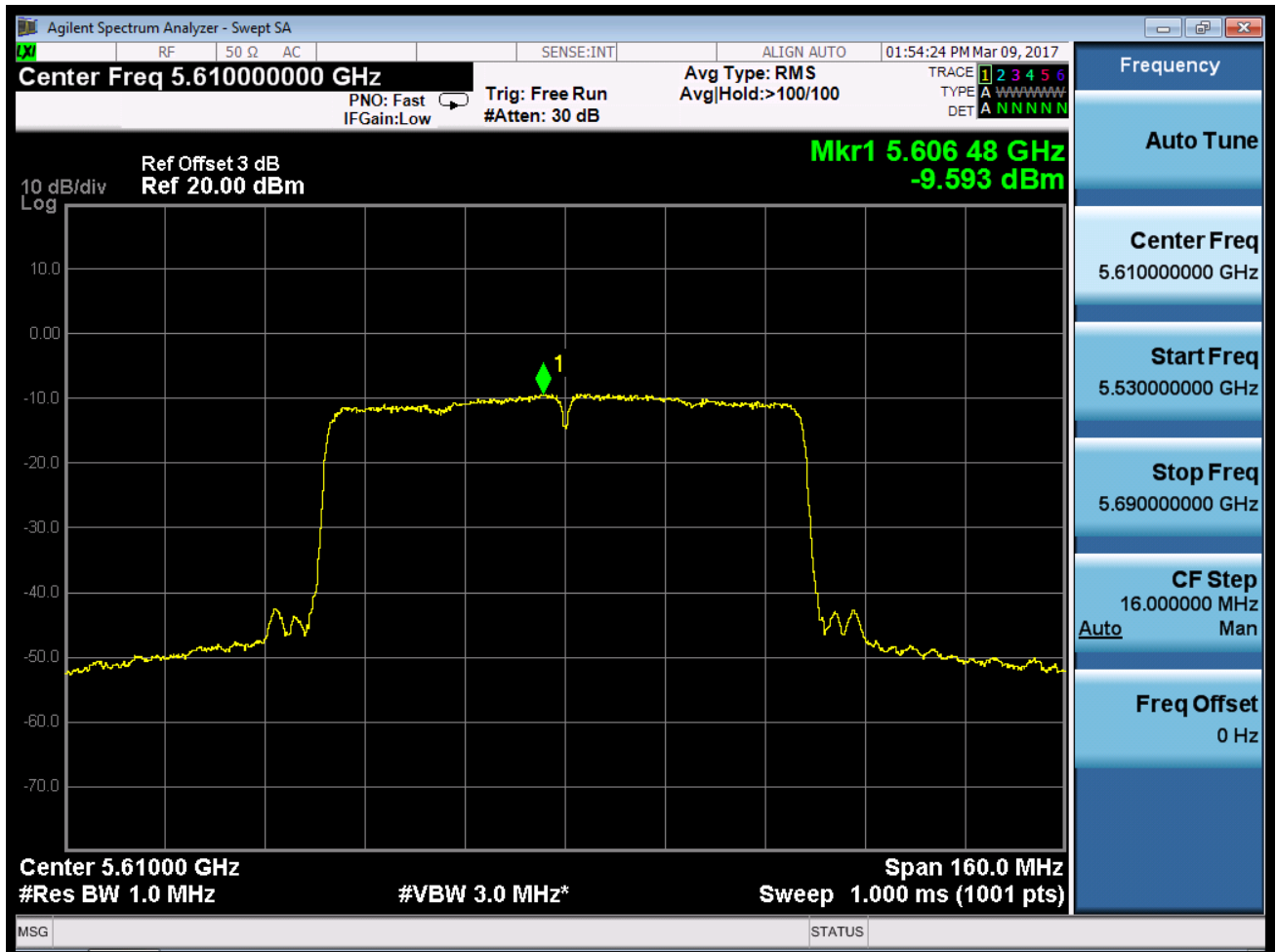


Produkte  
Products

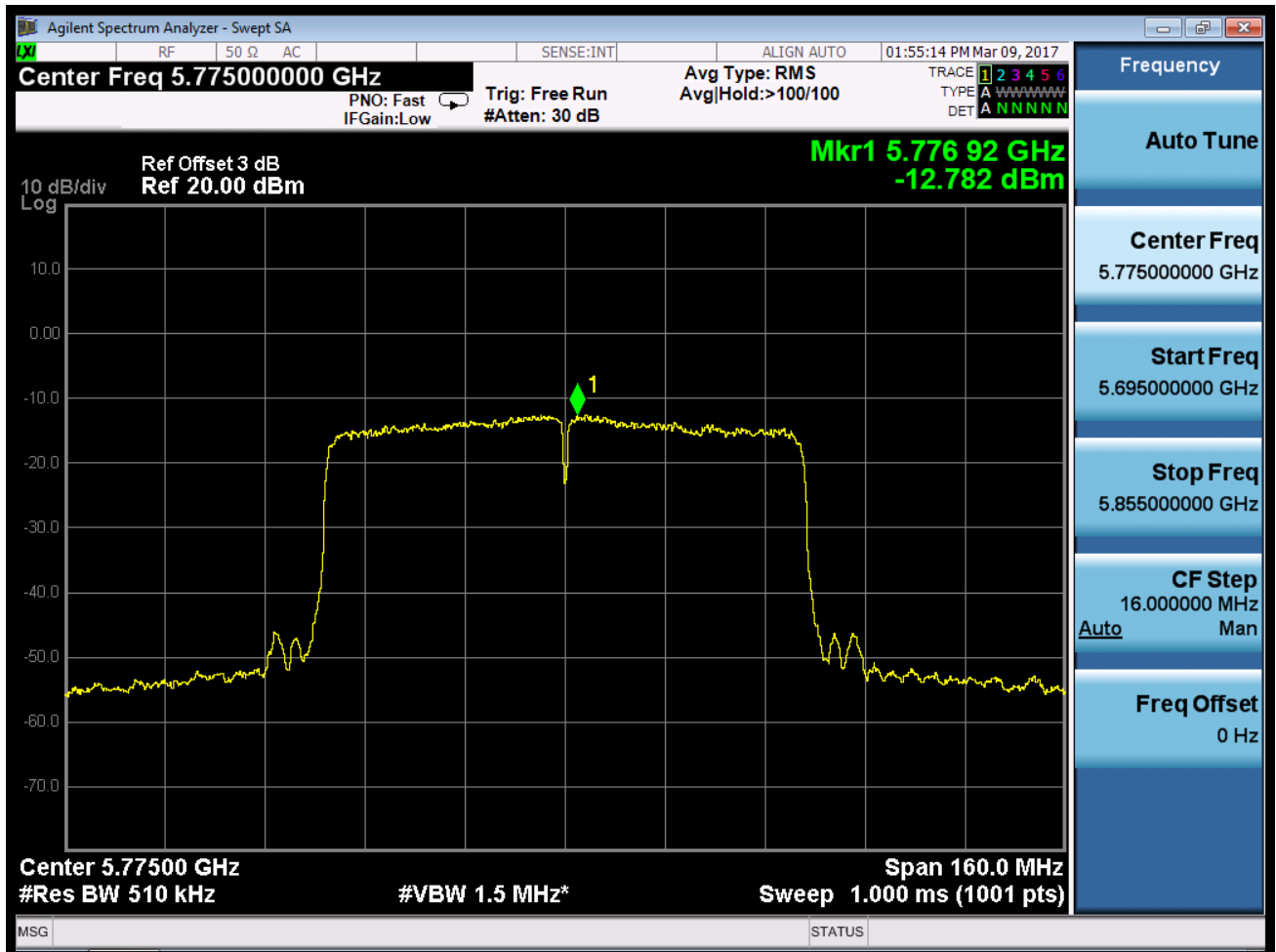




Produkte  
Products

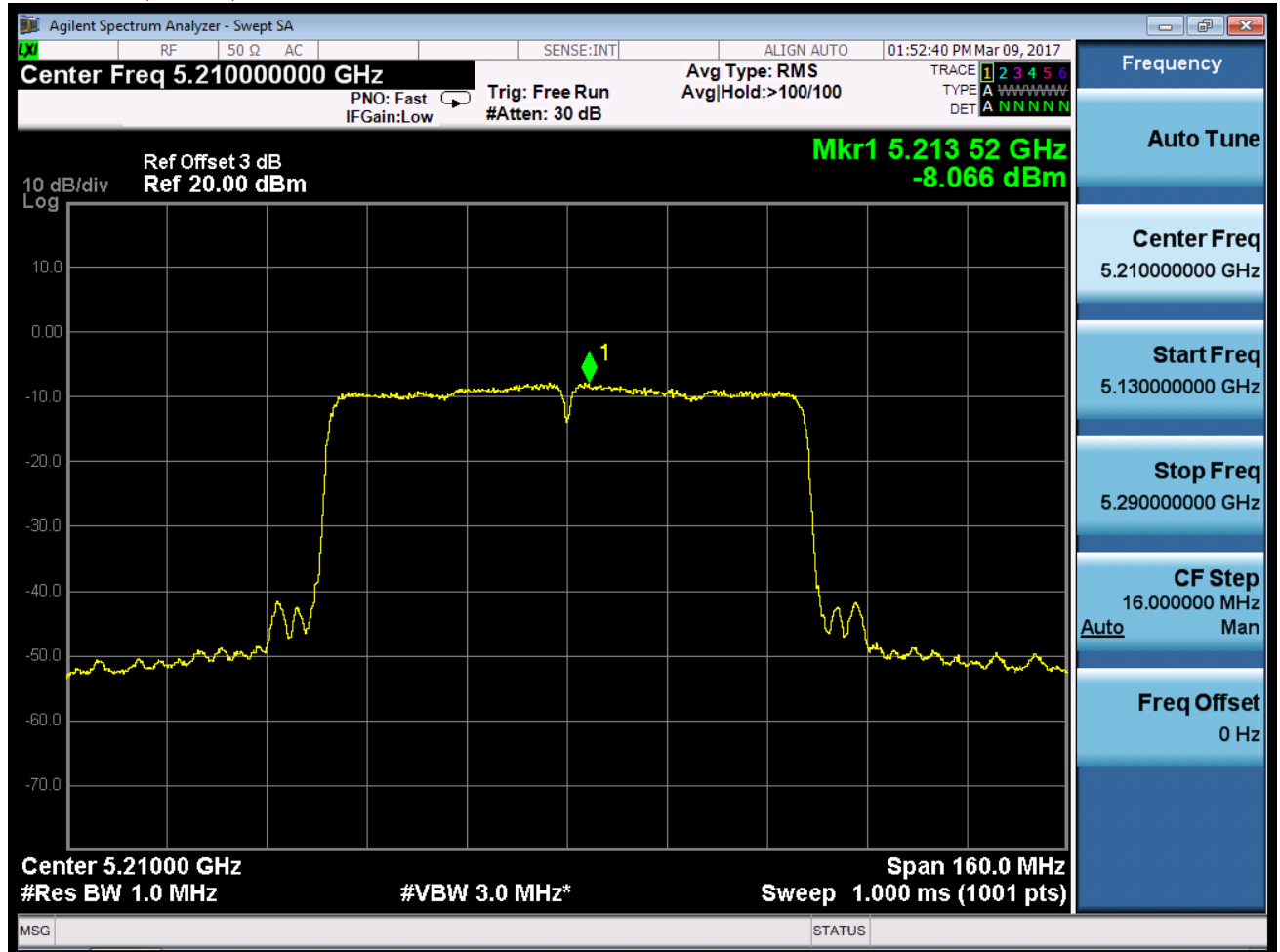


Produkte  
Products

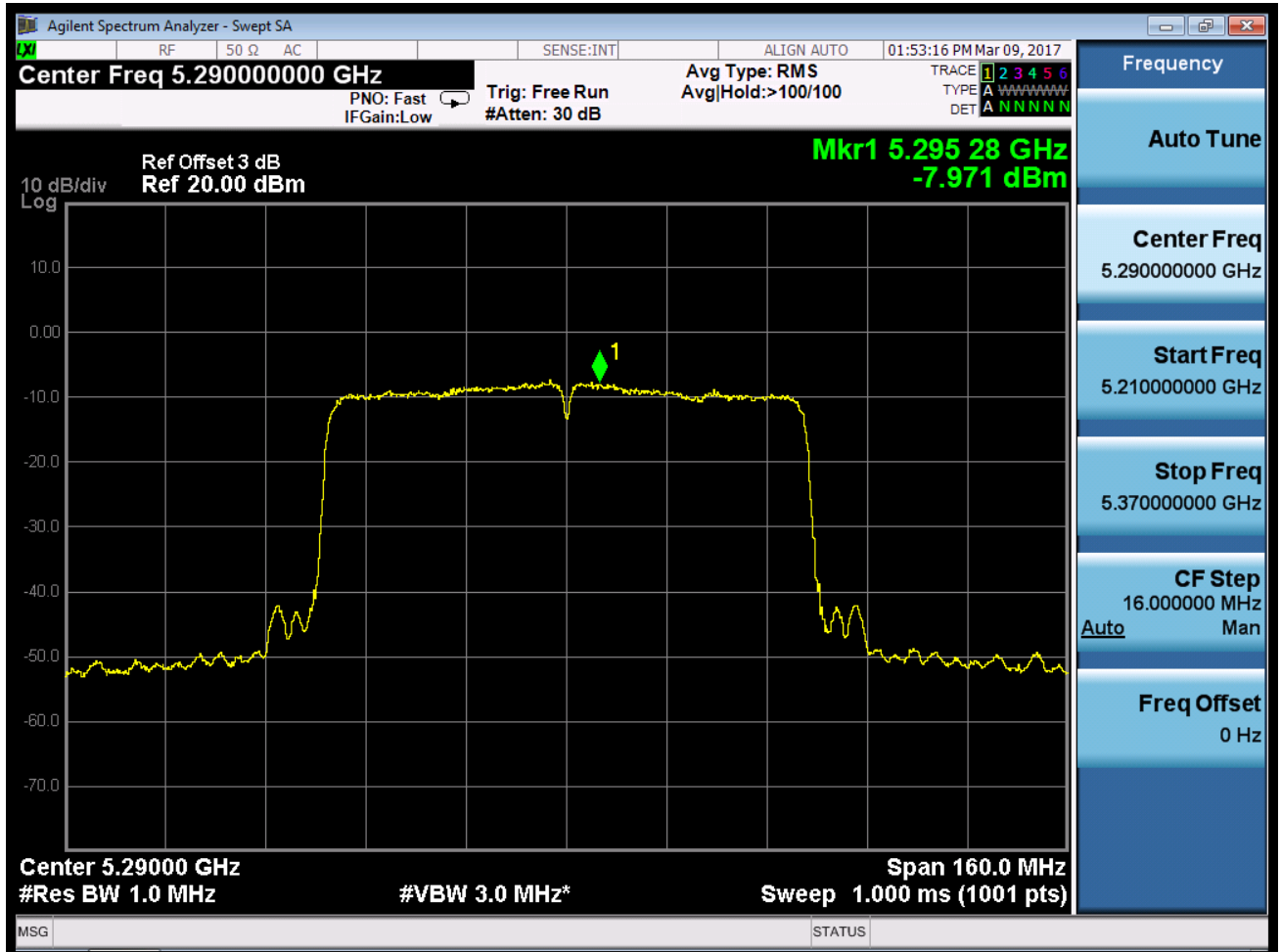


Produkte  
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802.11ac80, MIMO, Ant1

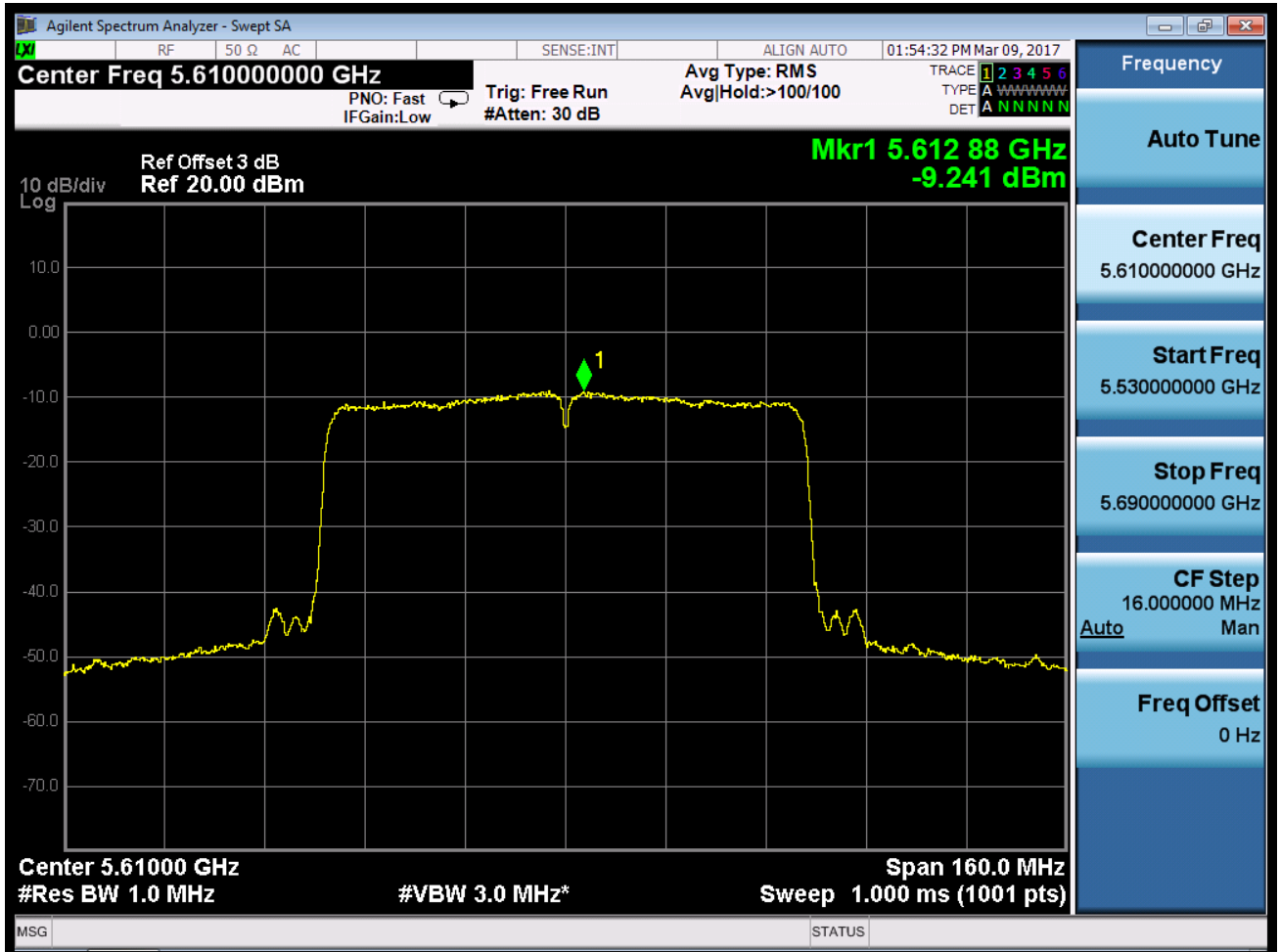


Produkte  
Products





Produkte  
Products

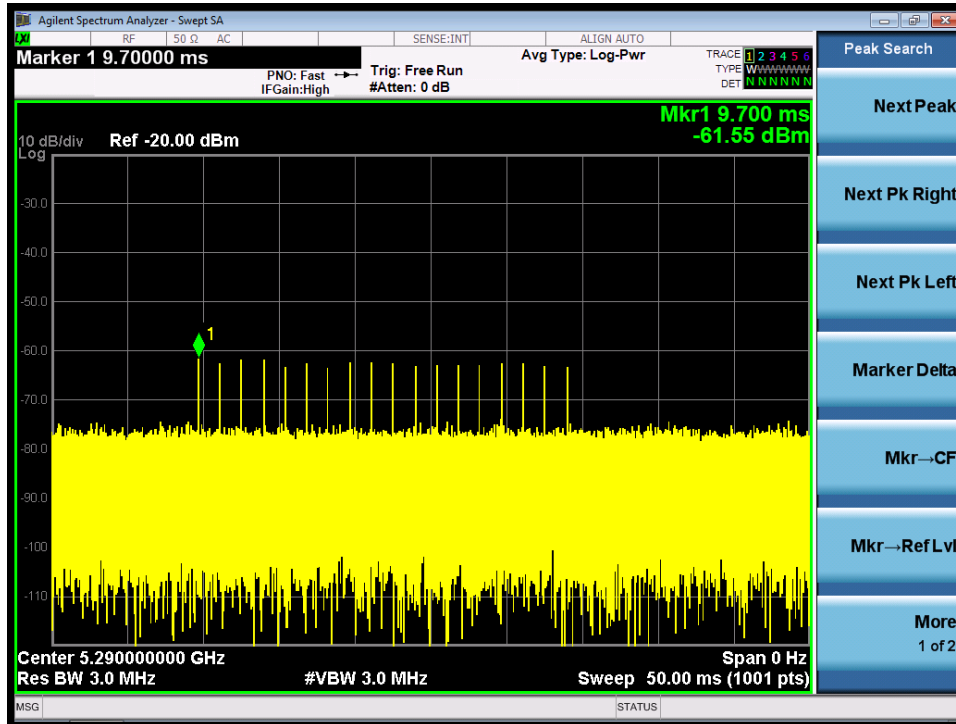




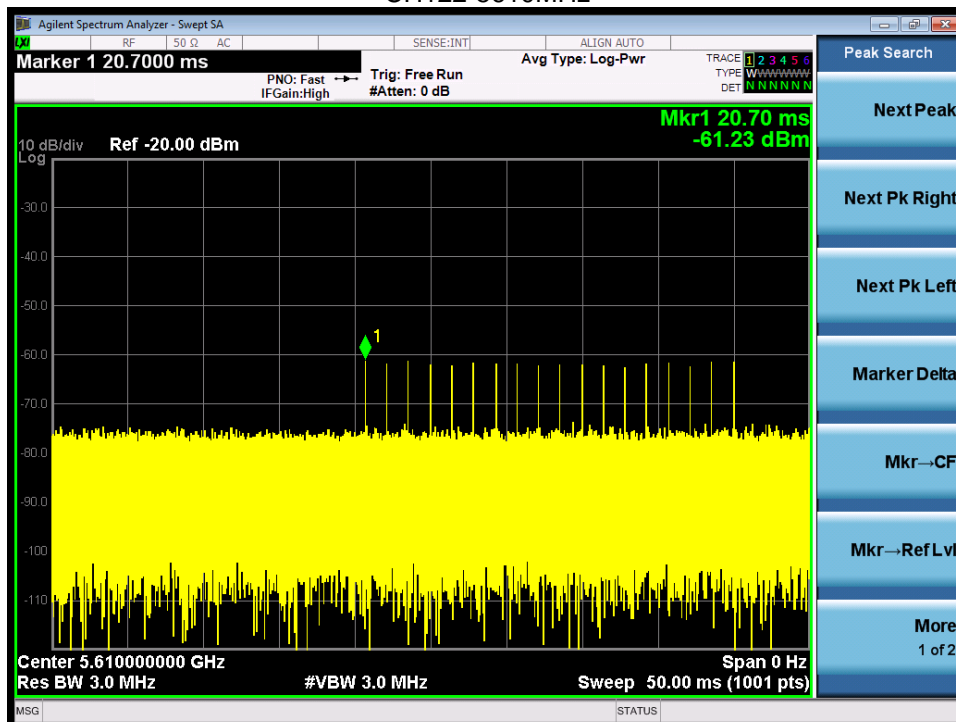
## 5. Dynamic Frequency Selection (DFS)

### 5.1 Radar Waveform calibration

CH58-5290MHz



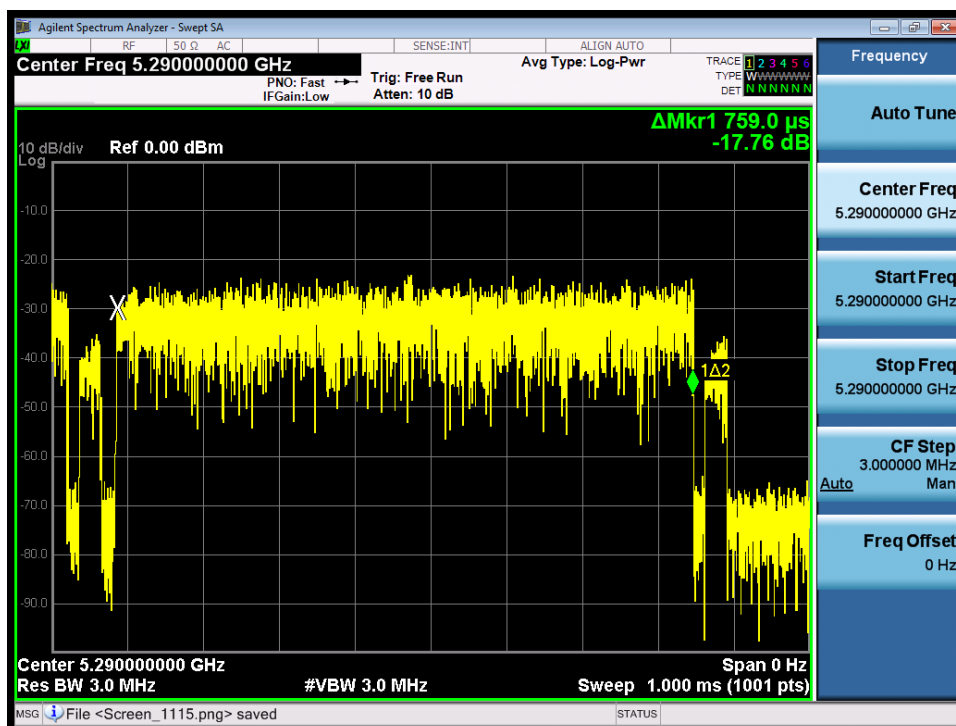
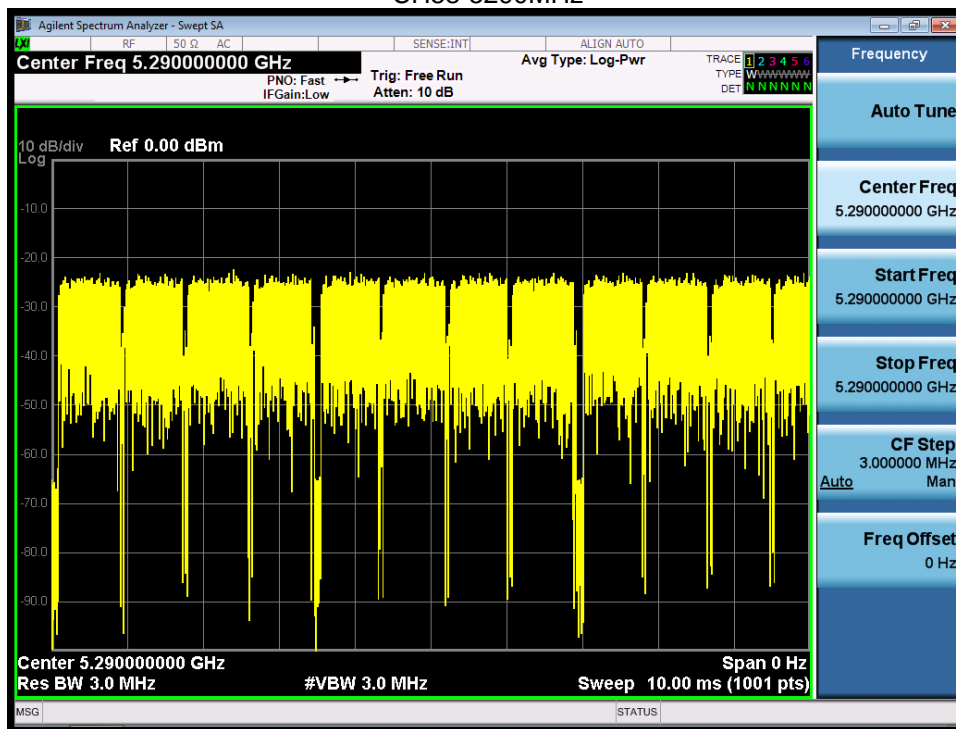
CH122-5610MHz



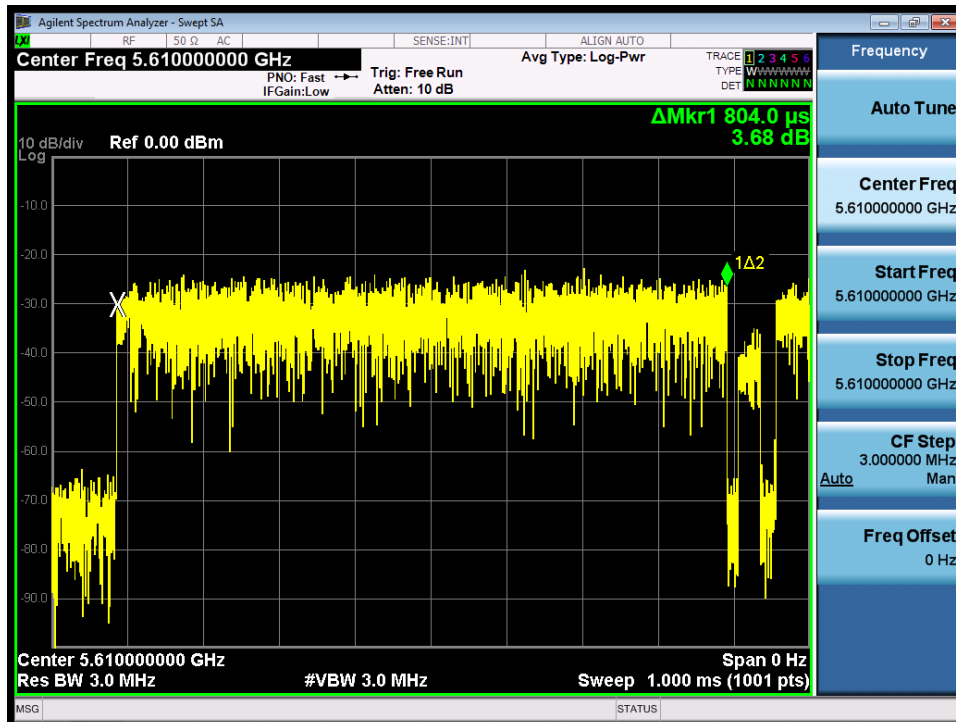
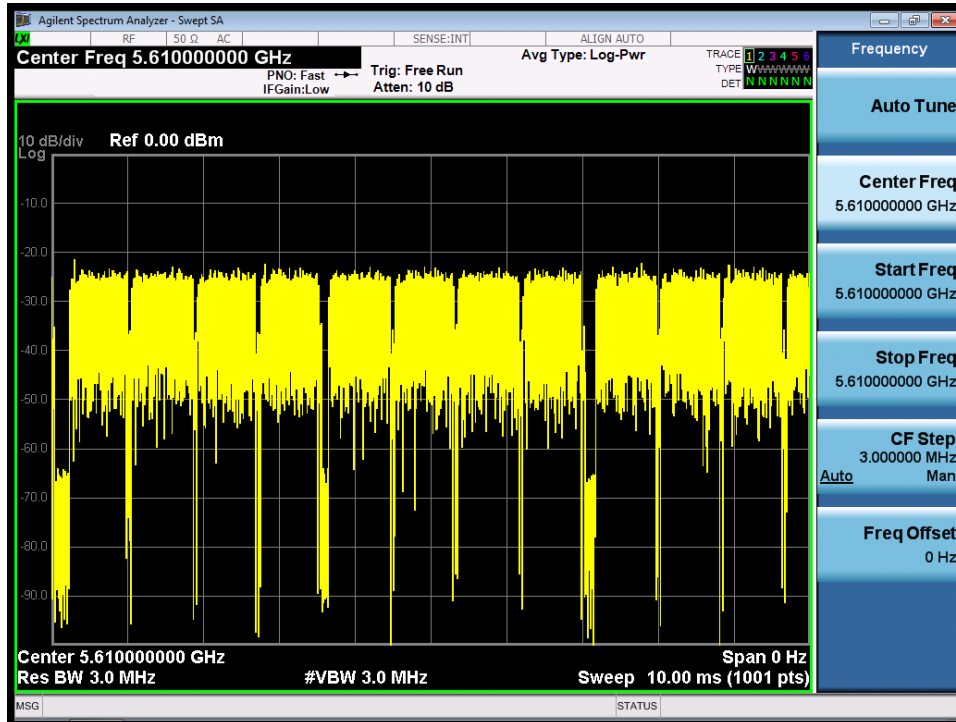


### 5.2 Channel Loading

CH58-5290MHz



CH122-5610MHz

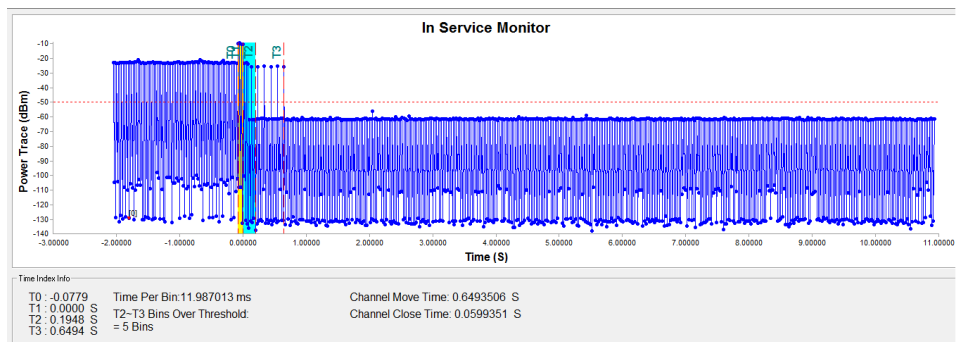
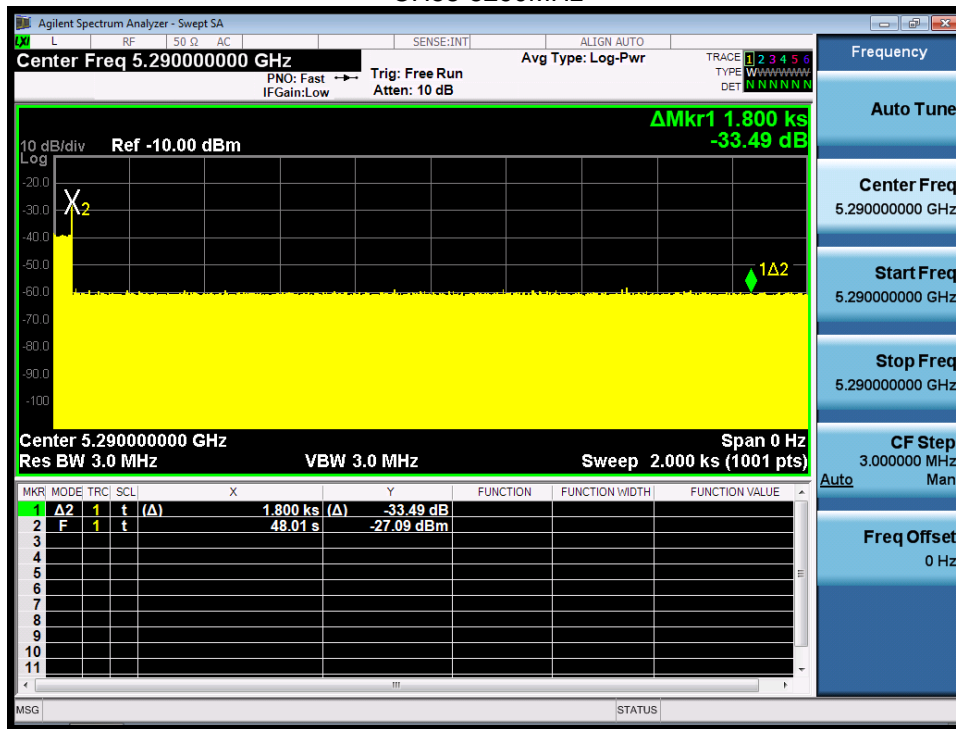


**5.3 Test Datas**

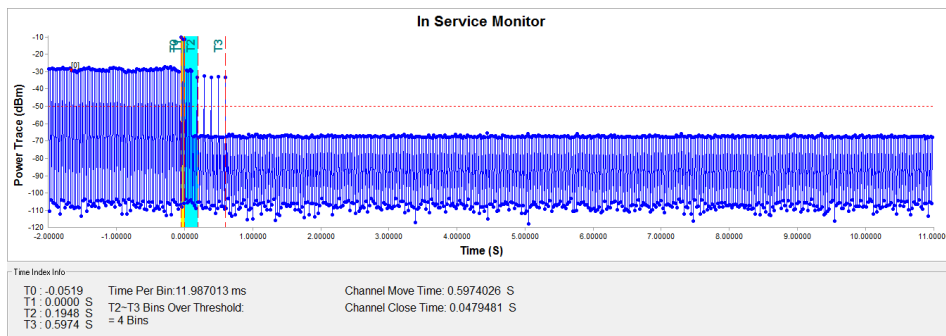
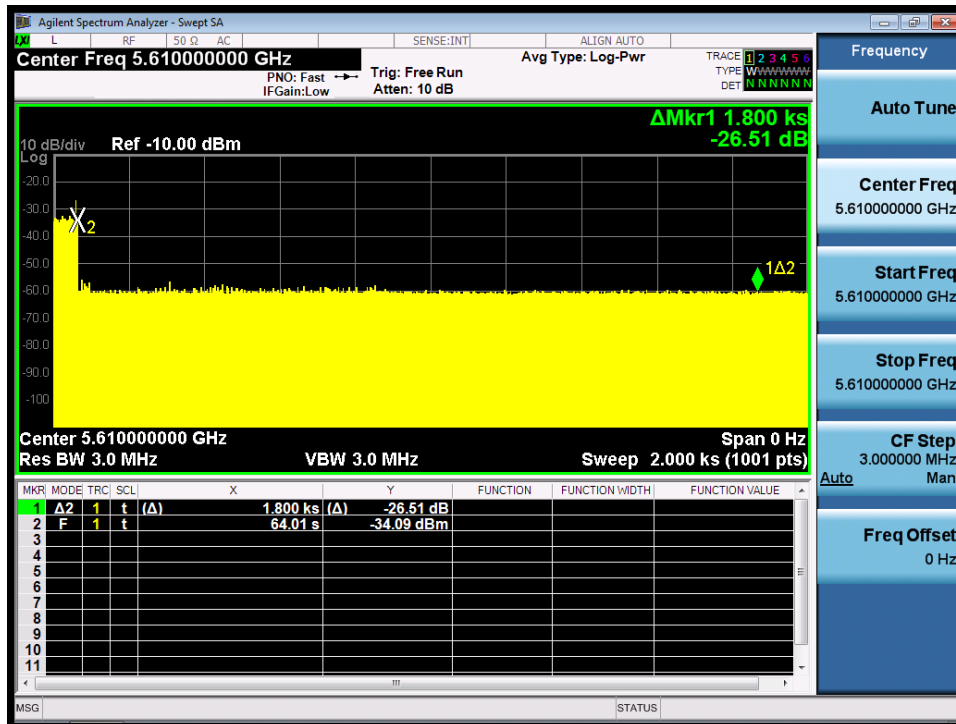
| Channel Frequency | Minimum channel loading | Items                             | Measured     | Limit                                             | Result |
|-------------------|-------------------------|-----------------------------------|--------------|---------------------------------------------------|--------|
| CH58-5290MHz      | >17%                    | Channel Move Time                 | 0.649s       | 10s                                               | Pass   |
|                   |                         | Channel Closing Transmission Time | <200ms+<60ms | 200ms+aggregate of 60ms over remaining 10s period | Pass   |
|                   |                         | Non-Occupancy Period              | >1800s       | 30 min.                                           | Pass   |
| CH122-5610MHz     | >17%                    | Channel Move Time                 | 0.597s       | 10s                                               | Pass   |
|                   |                         | Channel Closing Transmission Time | <200ms+<60ms | 200ms+aggregate of 60ms over remaining 10s period | Pass   |
|                   |                         | Non-Occupancy Period              | >1800s       | 30 min.                                           | Pass   |

5.4 Test Graphs

CH58-5290MHz



CH122-5610MHz

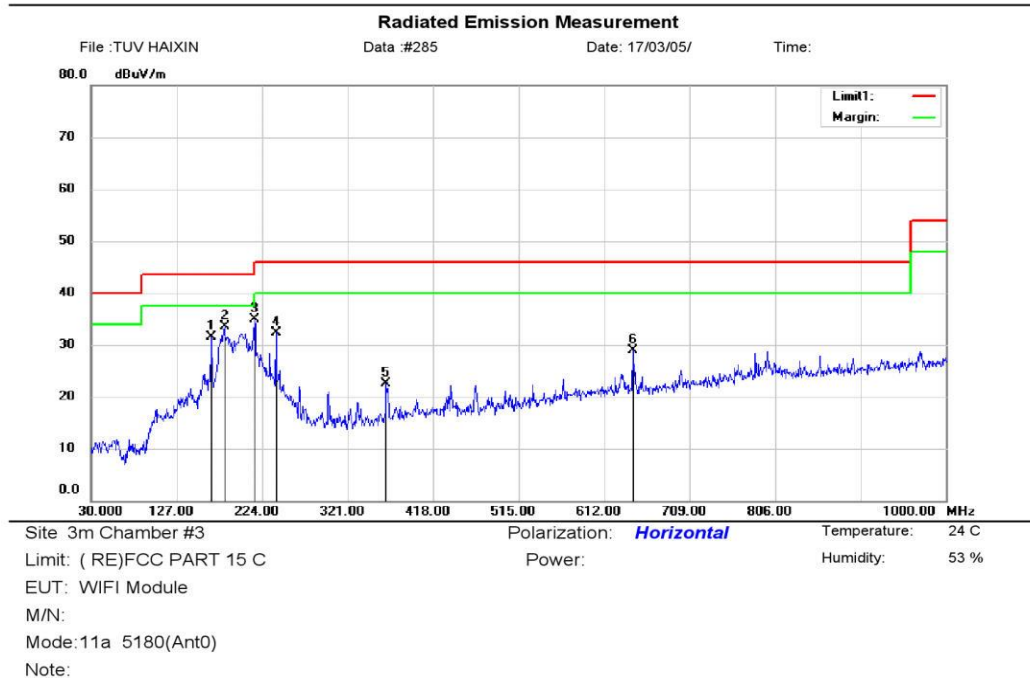


## 6. Transmitter Spurious Emissions

Note:1, Testing is carried out with frequency rang 9kHz to the tenth harmonics.  
 2, The margin is greater than 20 dB are not shown in this Appendix.

### 6.1 Transmitter Spurious Emissions, Below 1GHz

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| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Antenna<br>Height<br>cm | Table<br>Degree<br>degree | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|-------------------------|---------------------------|---------|
| 1   |     | 166.7700     | 49.72                    | -18.31                  | 31.41                      | 43.50           | -12.09     | QP                      |                           |         |
| 2   |     | 181.3200     | 53.42                    | -19.83                  | 33.59                      | 43.50           | -9.91      | QP                      |                           |         |
| 3   | *   | 215.2700     | 49.86                    | -14.92                  | 34.94                      | 43.50           | -8.56      | QP                      |                           |         |
| 4   |     | 239.5200     | 46.30                    | -14.09                  | 32.21                      | 46.00           | -13.79     | QP                      |                           |         |
| 5   |     | 364.6500     | 32.88                    | -10.29                  | 22.59                      | 46.00           | -23.41     | QP                      |                           |         |
| 6   |     | 644.9800     | 33.49                    | -4.58                   | 28.91                      | 46.00           | -17.09     | QP                      |                           |         |

\*:Maximum data    x:Over limit    !:over margin

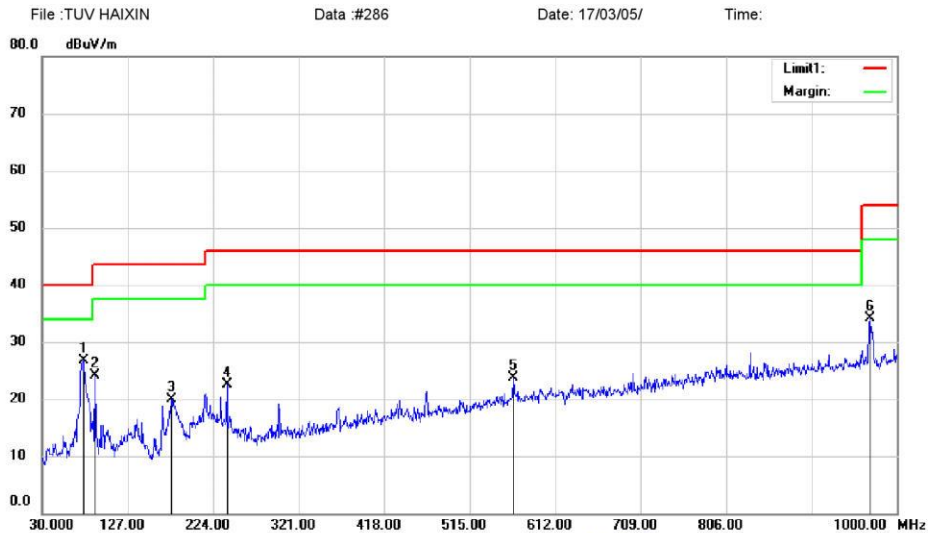
Operator: KK

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**Radiated Emission Measurement**



Site: 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C  
 Limit: (RE)FCC PART 15 C Power: Humidity: 53 %  
 EUT: WIFI Module  
 M/N:  
 Mode: 11a 5180(Ant0)  
 Note:

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Antenna<br>Height<br>cm | Table<br>Degree | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|-------------------------|-----------------|----------|---------|
| 1   | *   | 76.5600      | 47.02                    | -20.32                  | 26.70                      | 40.00           | -13.30     | QP                      |                 |          |         |
| 2   |     | 90.1400      | 40.61                    | -16.41                  | 24.20                      | 43.50           | -19.30     | QP                      |                 |          |         |
| 3   |     | 176.4700     | 37.21                    | -17.34                  | 19.87                      | 43.50           | -23.63     | QP                      |                 |          |         |
| 4   |     | 239.5200     | 36.53                    | -14.09                  | 22.44                      | 46.00           | -23.56     | QP                      |                 |          |         |
| 5   |     | 564.4700     | 29.66                    | -5.93                   | 23.73                      | 46.00           | -22.27     | QP                      |                 |          |         |
| 6   |     | 968.9600     | 34.39                    | -0.20                   | 34.19                      | 54.00           | -19.81     | QP                      |                 |          |         |

\*:Maximum data x:Over limit !:over margin

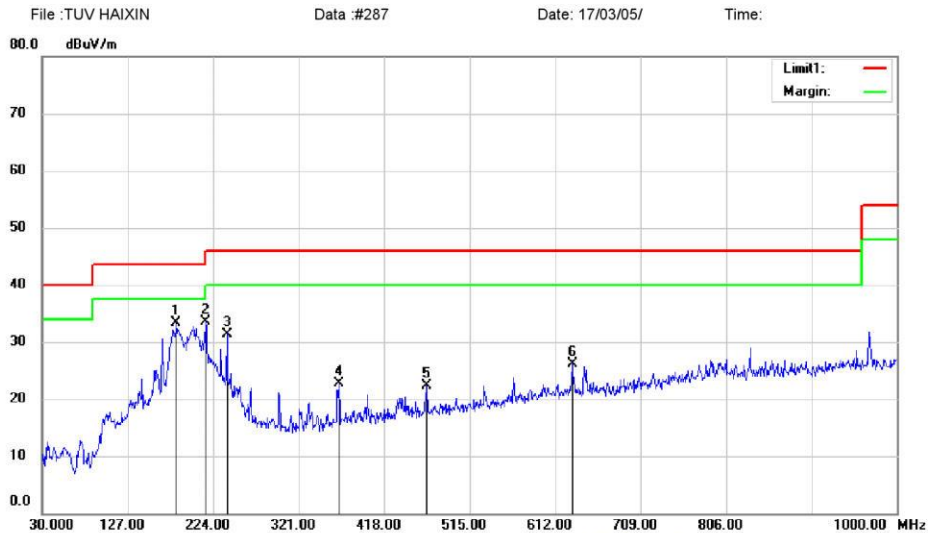
Operator: KK

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**Radiated Emission Measurement**



Site: 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C  
 Limit: (RE)FCC PART 15 C Power: Humidity: 53 %  
 EUT: WIFI Module  
 M/N:  
 Mode: 11a 5200(Ant0)  
 Note:

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | cm             | degree       | Comment |
| 1   |     | 182.2900 | 53.22         | -19.83         | 33.39       | 43.50  | -10.11 | QP             |              |         |
| 2   | *   | 215.2700 | 48.35         | -14.92         | 33.43       | 43.50  | -10.07 | QP             |              |         |
| 3   |     | 239.5200 | 45.49         | -14.09         | 31.40       | 46.00  | -14.60 | QP             |              |         |
| 4   |     | 366.5900 | 32.93         | -10.26         | 22.67       | 46.00  | -23.33 | QP             |              |         |
| 5   |     | 466.5000 | 30.59         | -8.30          | 22.29       | 46.00  | -23.71 | QP             |              |         |
| 6   |     | 631.4000 | 30.81         | -4.71          | 26.10       | 46.00  | -19.90 | AVG            |              |         |

\*:Maximum data x:Over limit !:over margin

Operator: KK

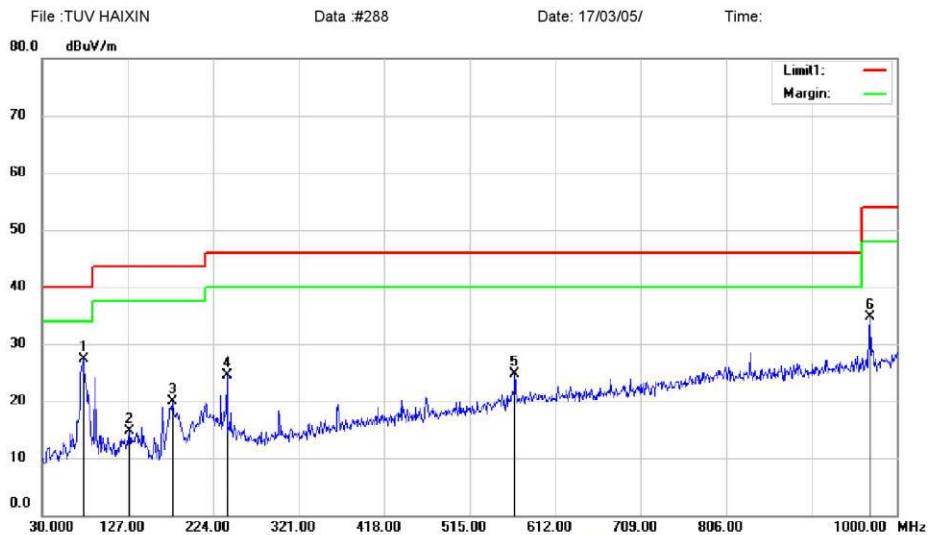


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**Radiated Emission Measurement**



Site: 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C  
 Limit: (RE)FCC PART 15 C Power: Humidity: 53 %  
 EUT: WIFI Module  
 M/N:  
 Mode: 11a 5200(Ant0)  
 Note:

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Antenna<br>Height<br>cm | Table<br>Degree | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|-------------------------|-----------------|----------|---------|
| 1   | *   | 76.5600      | 47.55                    | -20.32                  | 27.23                      | 40.00           | -12.77     | QP                      |                 |          |         |
| 2   |     | 128.9400     | 33.40                    | -18.69                  | 14.71                      | 43.50           | -28.79     | QP                      |                 |          |         |
| 3   |     | 177.4400     | 37.13                    | -17.20                  | 19.93                      | 43.50           | -23.57     | QP                      |                 |          |         |
| 4   |     | 239.5200     | 38.57                    | -14.09                  | 24.48                      | 46.00           | -21.52     | QP                      |                 |          |         |
| 5   |     | 566.4100     | 30.63                    | -5.88                   | 24.75                      | 46.00           | -21.25     | QP                      |                 |          |         |
| 6   |     | 968.9600     | 35.00                    | -0.20                   | 34.80                      | 54.00           | -19.20     | QP                      |                 |          |         |

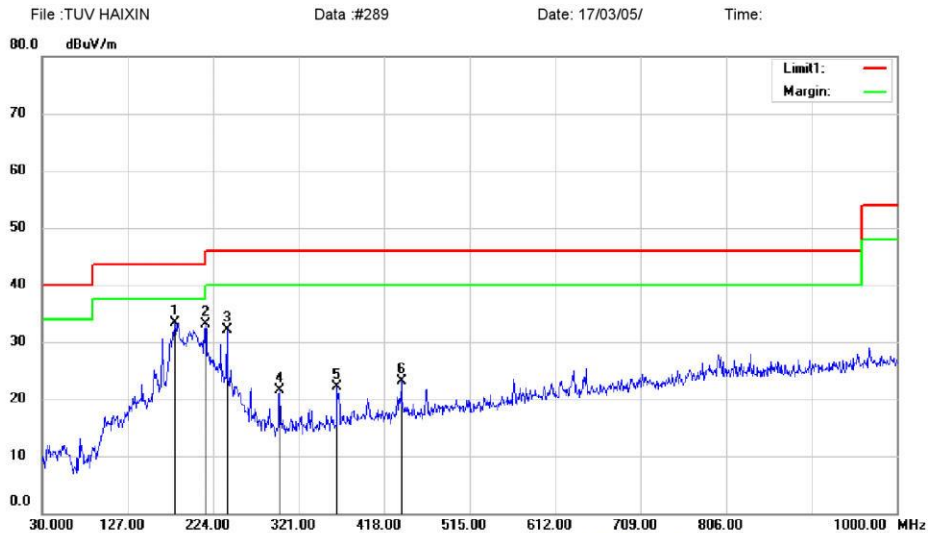
\*:Maximum data x:Over limit !:over margin

Operator: KK

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**Radiated Emission Measurement**



Site: 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C  
 Limit: (RE)FCC PART 15 C Power: Humidity: 53 %  
 EUT: WIFI Module  
 M/N:  
 Mode: 11a 5240(Ant0)  
 Note:

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | cm             | degree       | Comment |
| 1   | *   | 180.3500 | 53.13         | -19.82         | 33.31       | 43.50  | -10.19 | QP             |              |         |
| 2   |     | 215.2700 | 47.96         | -14.92         | 33.04       | 43.50  | -10.46 | QP             |              |         |
| 3   |     | 239.5200 | 46.15         | -14.09         | 32.06       | 46.00  | -13.94 | QP             |              |         |
| 4   |     | 299.6600 | 33.53         | -12.02         | 21.51       | 46.00  | -24.49 | QP             |              |         |
| 5   |     | 364.6500 | 32.43         | -10.29         | 22.14       | 46.00  | -23.86 | QP             |              |         |
| 6   |     | 437.4000 | 31.67         | -8.65          | 23.02       | 46.00  | -22.98 | QP             |              |         |

\*:Maximum data x:Over limit !:over margin

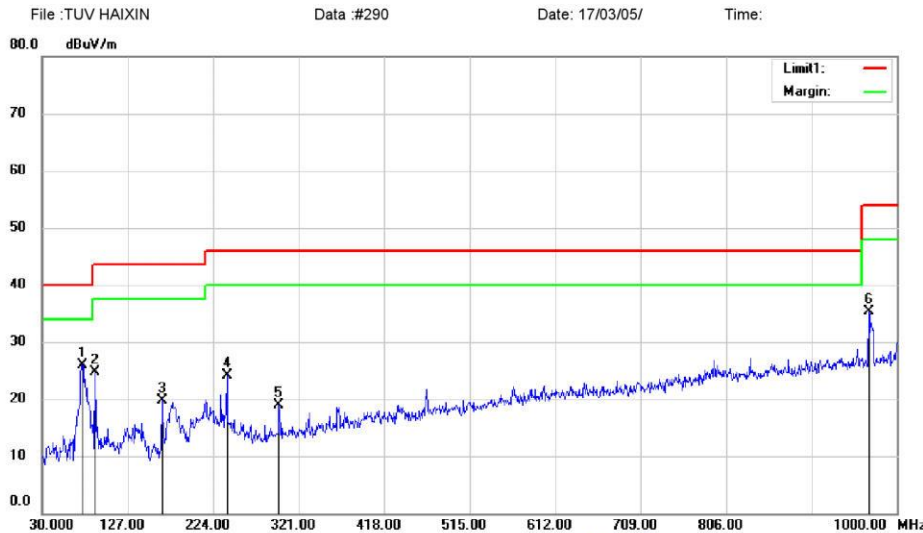
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**Radiated Emission Measurement**



Site: 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C  
 Limit: (RE)FCC PART 15 C Power: Humidity: 53 %  
 EUT: WIFI Module  
 M/N:  
 Mode: 11a 5240(Ant0)  
 Note:

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Antenna Height | Table Degree | Comment |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | cm             | degree       |         |
| 1   | *   | 75.5900  | 46.52         | -20.54         | 25.98       | 40.00  | -14.02 | QP             |              |         |
| 2   |     | 90.1400  | 41.02         | -16.41         | 24.61       | 43.50  | -18.89 | QP             |              |         |
| 3   |     | 165.8000 | 37.96         | -18.31         | 19.65       | 43.50  | -23.85 | QP             |              |         |
| 4   |     | 239.5200 | 38.27         | -14.09         | 24.18       | 46.00  | -21.82 | QP             |              |         |
| 5   |     | 298.6900 | 30.92         | -12.07         | 18.85       | 46.00  | -27.15 | QP             |              |         |
| 6   |     | 967.9900 | 35.48         | -0.20          | 35.28       | 54.00  | -18.72 | QP             |              |         |

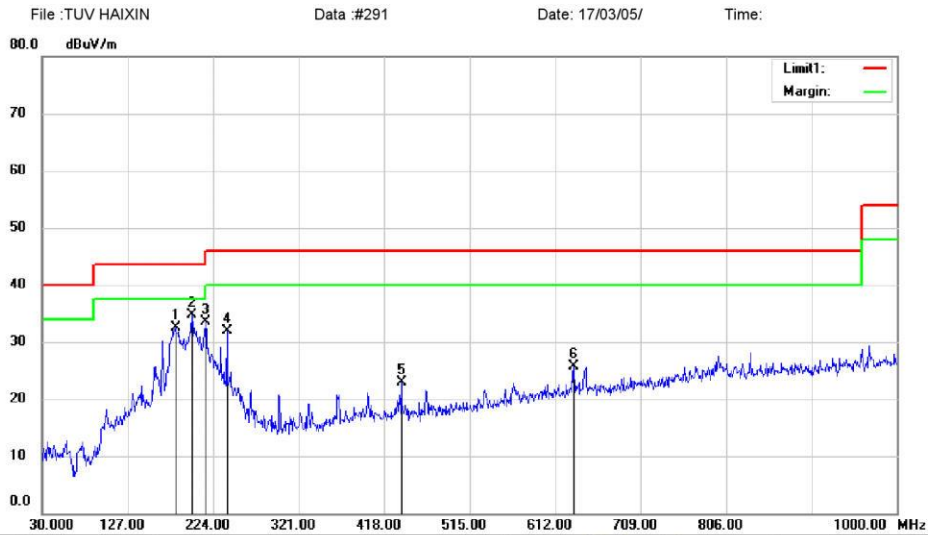
\*:Maximum data x:Over limit !:over margin

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**Radiated Emission Measurement**



Site: 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C  
 Limit: (RE)FCC PART 15 C Power: Humidity: 53 %  
 EUT: WIFI Module  
 M/N:  
 Mode: 11a 5260(Ant0)  
 Note:

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Antenna<br>Height<br>cm | Table<br>Degree<br>degree | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|-------------------------|---------------------------|---------|
| 1   |     | 181.3200     | 52.25                    | -19.83                  | 32.42                      | 43.50           | -11.08     | QP                      |                           |         |
| 2   | *   | 199.7500     | 50.90                    | -16.21                  | 34.69                      | 43.50           | -8.81      | QP                      |                           |         |
| 3   |     | 215.2700     | 48.36                    | -14.92                  | 33.44                      | 43.50           | -10.06     | QP                      |                           |         |
| 4   |     | 239.5200     | 45.96                    | -14.09                  | 31.87                      | 46.00           | -14.13     | QP                      |                           |         |
| 5   |     | 437.4000     | 31.52                    | -8.65                   | 22.87                      | 46.00           | -23.13     | QP                      |                           |         |
| 6   |     | 633.3400     | 30.38                    | -4.69                   | 25.69                      | 46.00           | -20.31     | QP                      |                           |         |

\*:Maximum data x:Over limit !:over margin

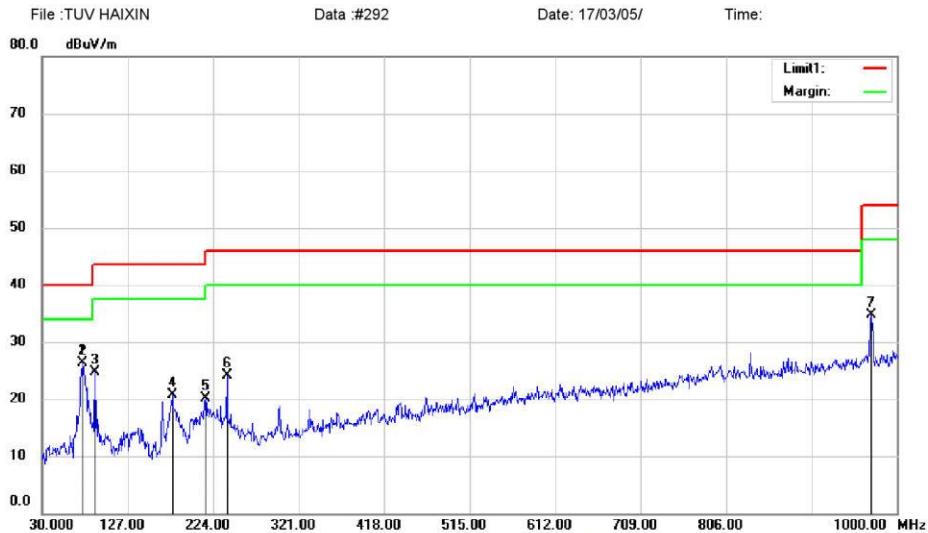
Operator: KK

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**Radiated Emission Measurement**



Site: 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C  
 Limit: (RE)FCC PART 15 C Power: Humidity: 53 %  
 EUT: WIFI Module  
 M/N:  
 Mode: 11a 5260(Ant0)  
 Note:

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Antenna<br>Height<br>cm | Table<br>Degree<br>degree | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|-------------------------|---------------------------|----------|---------|
| 1   | *   | 75.5900      | 46.90                    | -20.54                  | 26.36                      | 40.00           | -13.64     |                         |                           | peak     |         |
| 2   | *   | 75.5900      | 46.90                    | -20.54                  | 26.36                      | 40.00           | -13.64     |                         |                           | peak     |         |
| 3   |     | 90.1400      | 41.21                    | -16.41                  | 24.80                      | 43.50           | -18.70     |                         |                           | QP       |         |
| 4   |     | 177.4400     | 37.81                    | -17.20                  | 20.61                      | 43.50           | -22.89     |                         |                           | QP       |         |
| 5   |     | 215.2700     | 34.98                    | -14.92                  | 20.06                      | 43.50           | -23.44     |                         |                           | QP       |         |
| 6   |     | 239.5200     | 38.18                    | -14.09                  | 24.09                      | 46.00           | -21.91     |                         |                           | QP       |         |
| 7   |     | 970.9000     | 34.87                    | -0.17                   | 34.70                      | 54.00           | -19.30     |                         |                           | peak     |         |

\*:Maximum data x:Over limit !:over margin

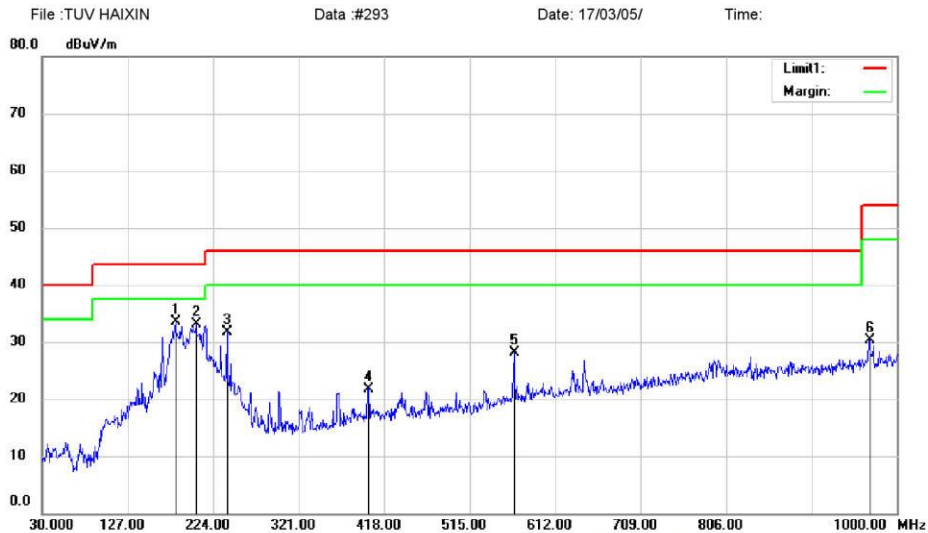
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**Radiated Emission Measurement**



Site: 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C  
 Limit: (RE)FCC PART 15 C Power: Humidity: 53 %  
 EUT: WIFI Module  
 M/N:  
 Mode: 11a 5280(Ant0)  
 Note:

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Antenna<br>Height<br>cm | Table<br>Degree<br>degree | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|-------------------------|---------------------------|---------|
| 1   | *   | 181.3200     | 53.24                    | -19.83                  | 33.41                      | 43.50           | -10.09     | QP                      |                           |         |
| 2   |     | 204.6000     | 48.89                    | -15.81                  | 33.08                      | 43.50           | -10.42     | QP                      |                           |         |
| 3   |     | 239.5200     | 45.89                    | -14.09                  | 31.80                      | 46.00           | -14.20     | QP                      |                           |         |
| 4   |     | 400.5400     | 31.04                    | -9.24                   | 21.80                      | 46.00           | -24.20     | QP                      |                           |         |
| 5   |     | 565.4400     | 33.93                    | -5.90                   | 28.03                      | 46.00           | -17.97     | QP                      |                           |         |
| 6   |     | 968.9600     | 30.53                    | -0.20                   | 30.33                      | 54.00           | -23.67     | QP                      |                           |         |

\*:Maximum data x:Over limit !:over margin

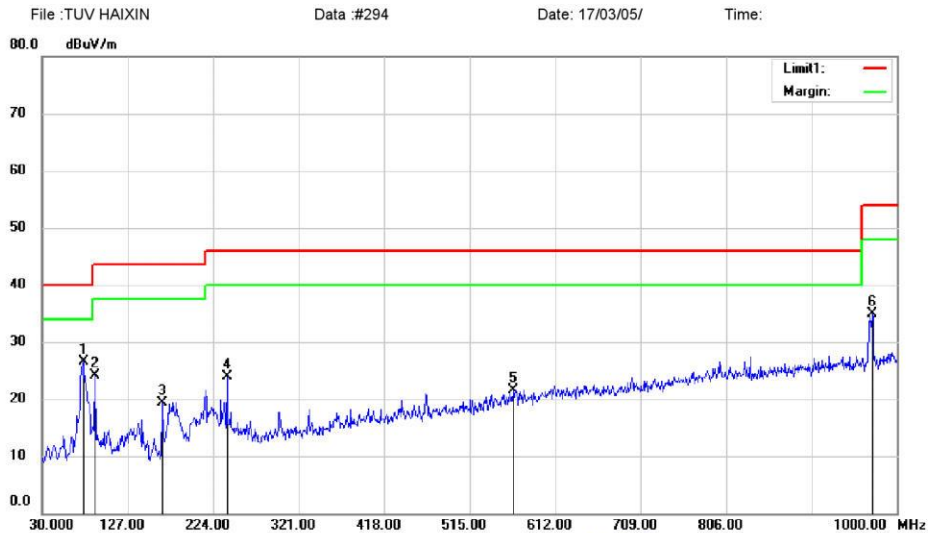
Operator: KK

Produkte  
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**Radiated Emission Measurement**



Site: 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C  
 Limit: (RE)FCC PART 15 C Power: Humidity: 53 %  
 EUT: WIFI Module  
 M/N:  
 Mode: 11a 5280(Ant0)  
 Note:

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Antenna<br>Height<br>cm | Table<br>Degree | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|-------------------------|-----------------|----------|---------|
| 1   | *   | 76.5600      | 46.82                    | -20.32                  | 26.50                      | 40.00           | -13.50     | QP                      |                 |          |         |
| 2   |     | 90.1400      | 40.50                    | -16.41                  | 24.09                      | 43.50           | -19.41     | QP                      |                 |          |         |
| 3   |     | 166.7700     | 37.67                    | -18.31                  | 19.36                      | 43.50           | -24.14     | QP                      |                 |          |         |
| 4   |     | 239.5200     | 37.96                    | -14.09                  | 23.87                      | 46.00           | -22.13     | QP                      |                 |          |         |
| 5   |     | 564.4700     | 27.52                    | -5.93                   | 21.59                      | 46.00           | -24.41     | QP                      |                 |          |         |
| 6   |     | 971.8700     | 35.11                    | -0.16                   | 34.95                      | 54.00           | -19.05     | QP                      |                 |          |         |

\*:Maximum data x:Over limit !:over margin

Operator: KK