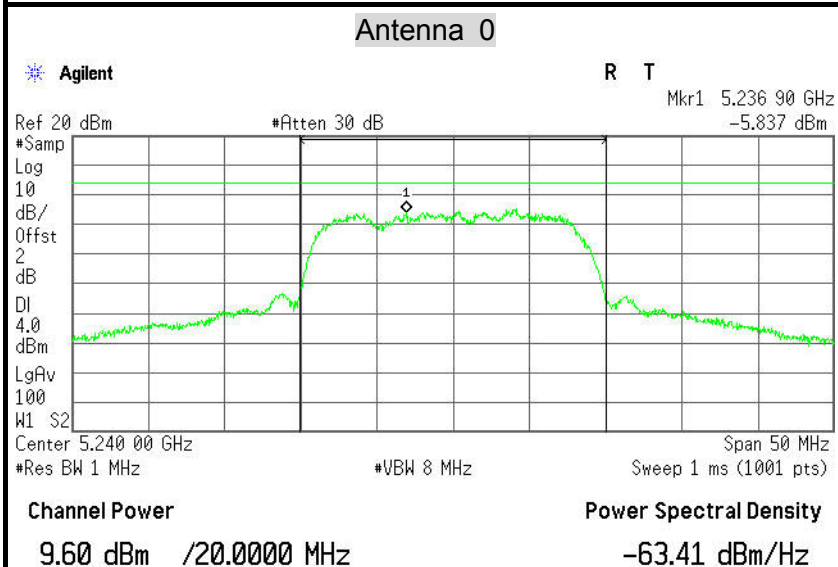


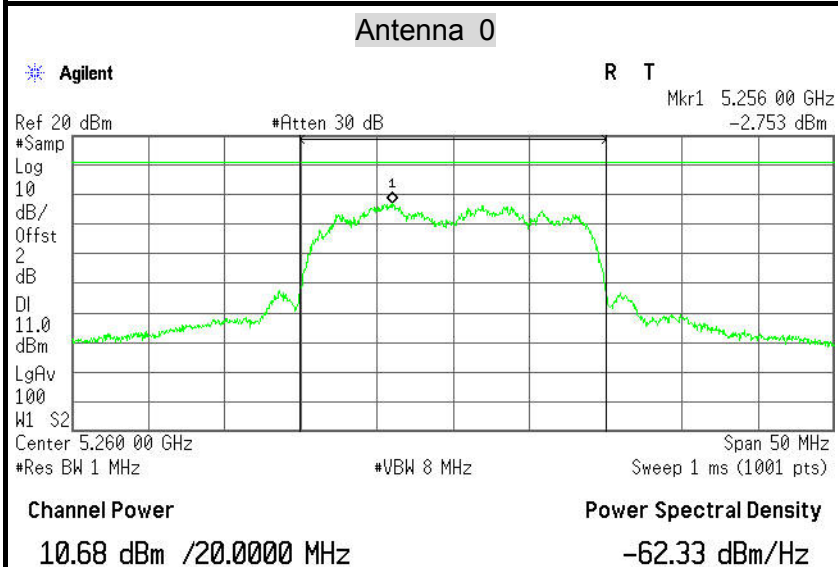


## PPSD (CH High)



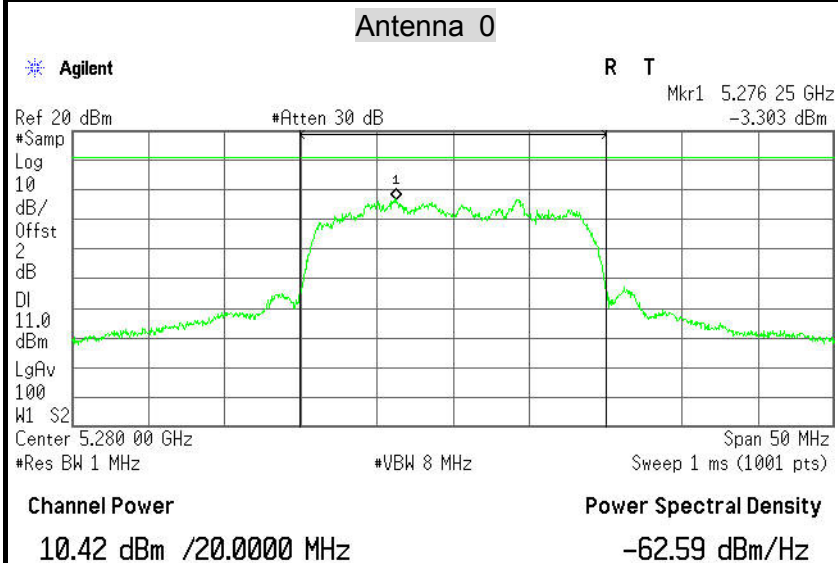
## IEEE 802.11n HT 20 MHz SISO mode / 5260 ~ 5320MHz

## PPSD (CH Low)

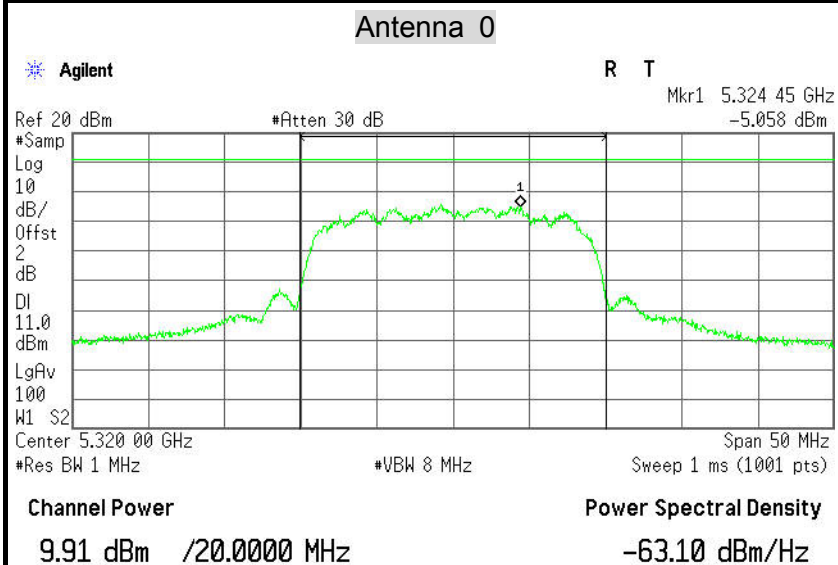




## PPSD (CH Mid)



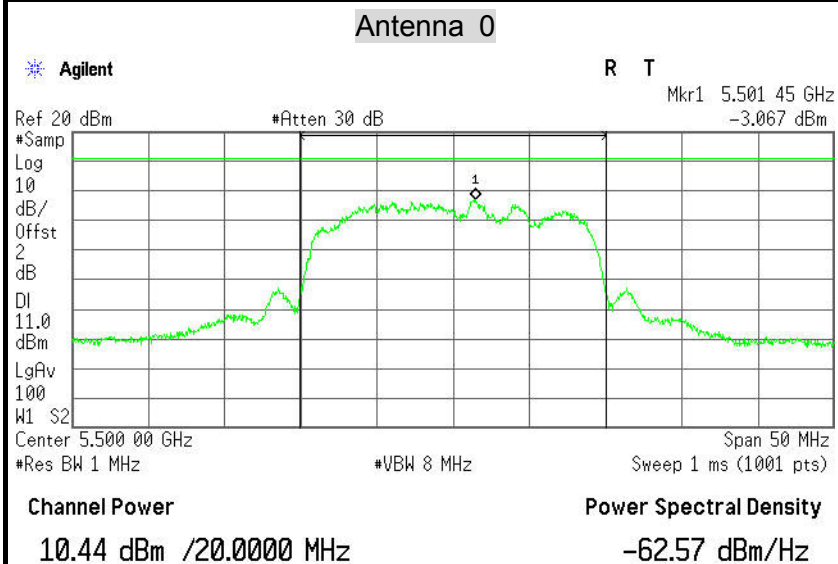
## PPSD (CH High)



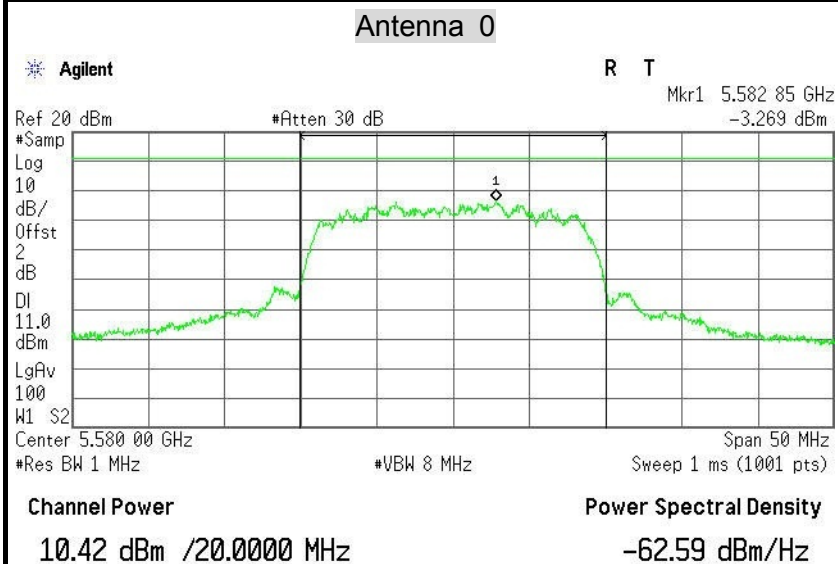


## IEEE 802.11n HT 20 MHz SISO mode / 5500 ~ 5700MHz

### PPSD (CH Low)

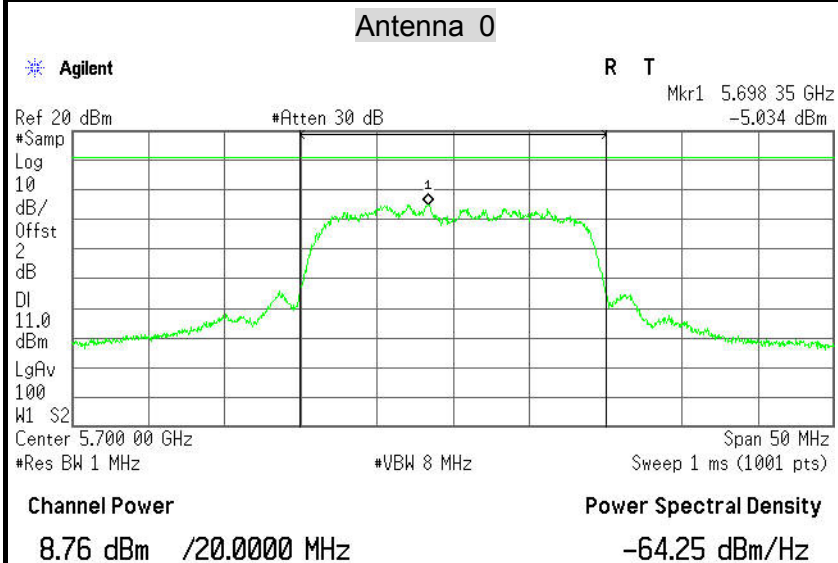


### PPSD (CH Mid)



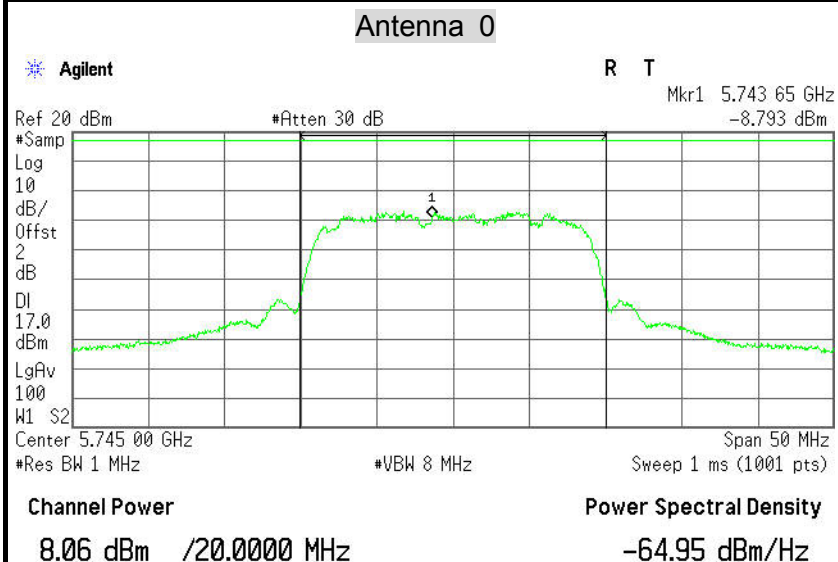


## PPSD (CH High)



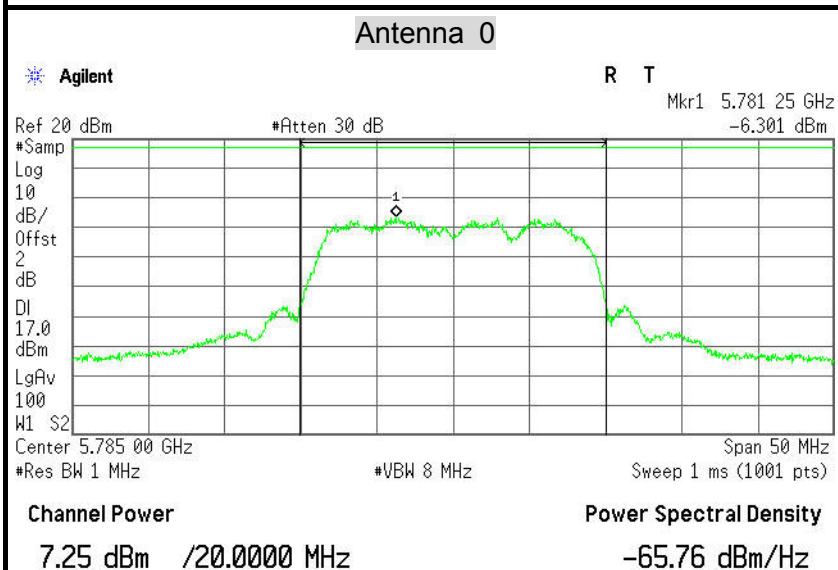
## IEEE 802.11n HT 20 MHz SISO mode / 5745 ~ 5805MHz

## PPSD (CH Low)

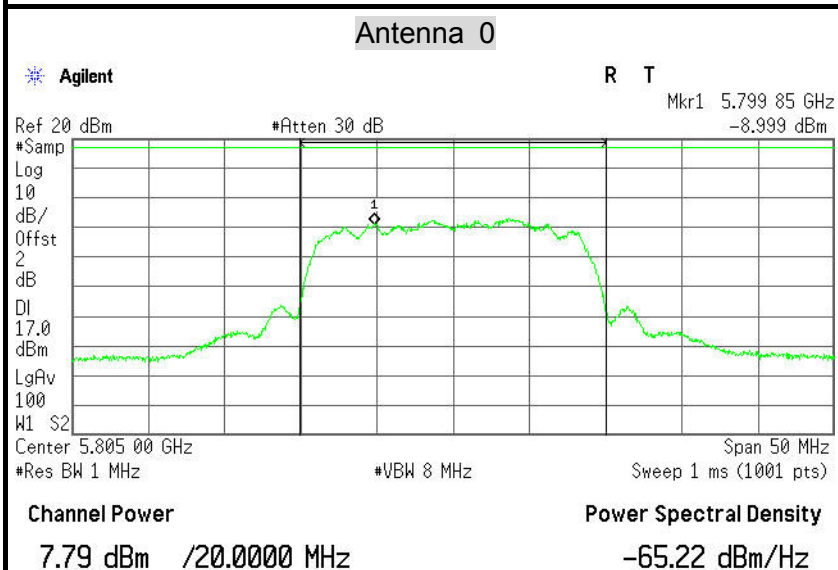




## PPSD (CH Mid)



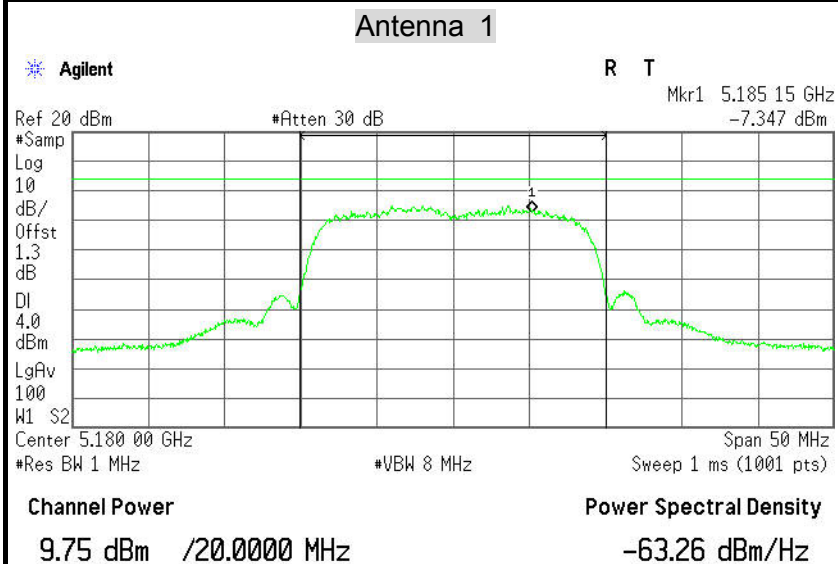
## PPSD (CH High)



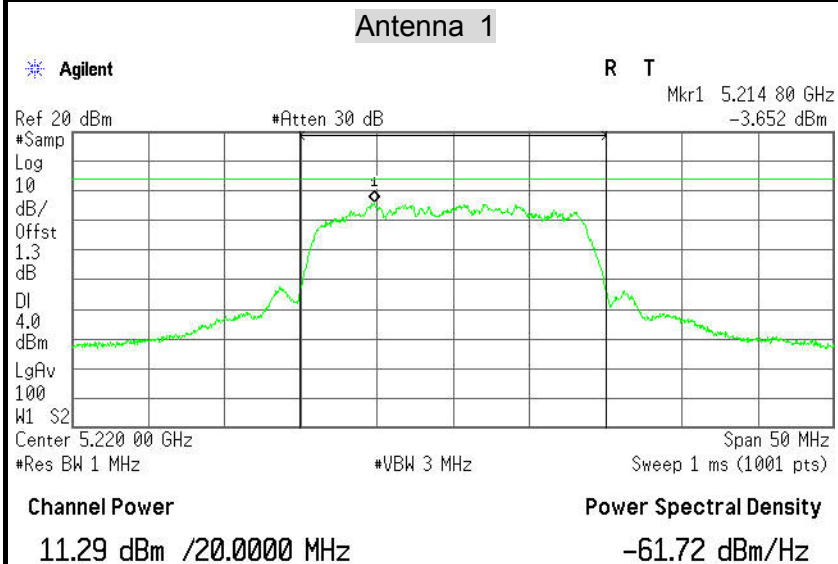


## IEEE 802.11n HT 20 MHz SISO mode / 5180 ~ 5240MHz

### PPSD (CH Low)

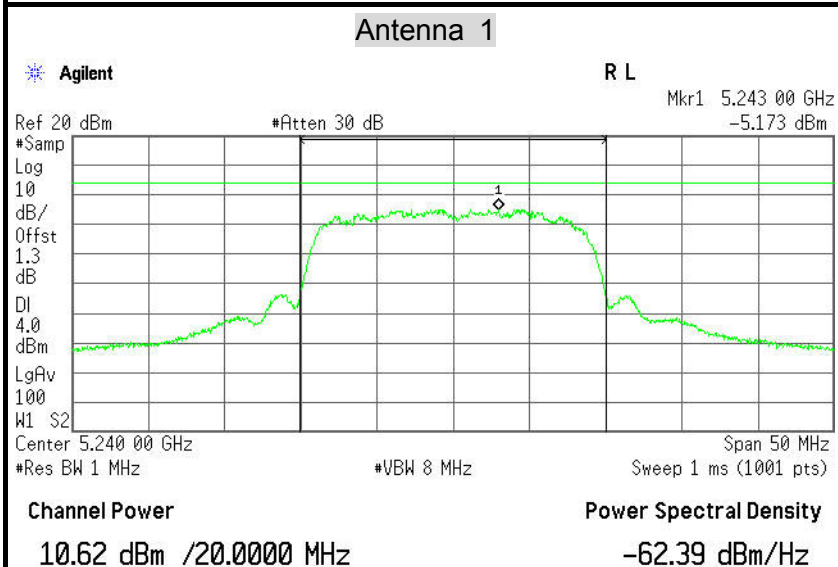


### PPSD (CH Mid)



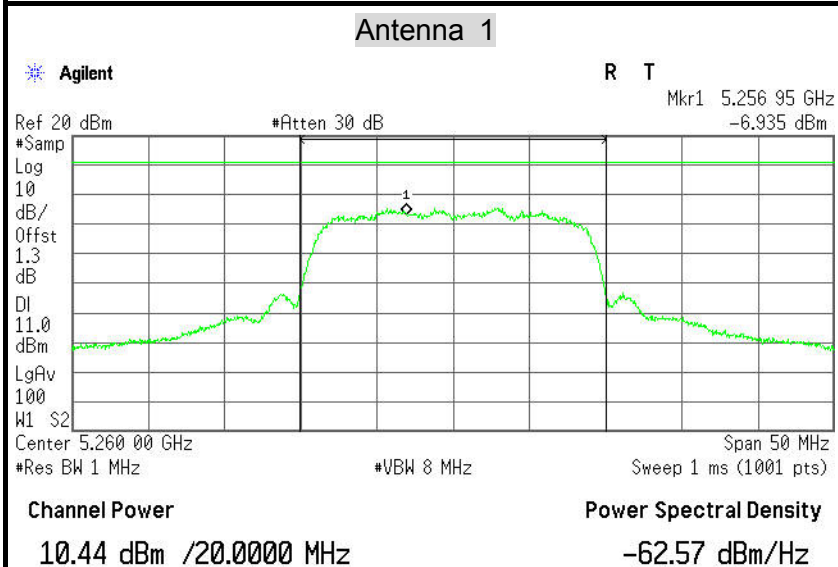


PPSD (CH High)



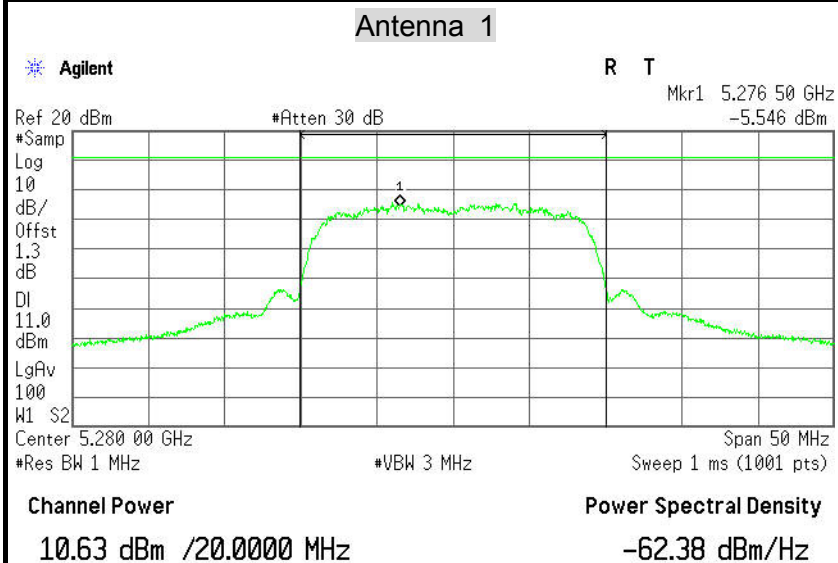
IEEE 802.11n HT 20 MHz SISO mode / 5260 ~ 5320MHz

PPSD (CH Low)

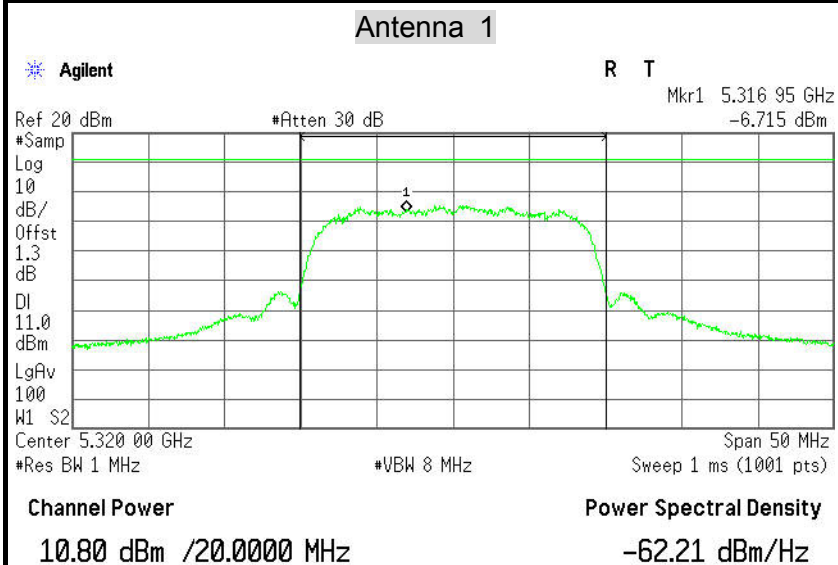




## PPSD (CH Mid)



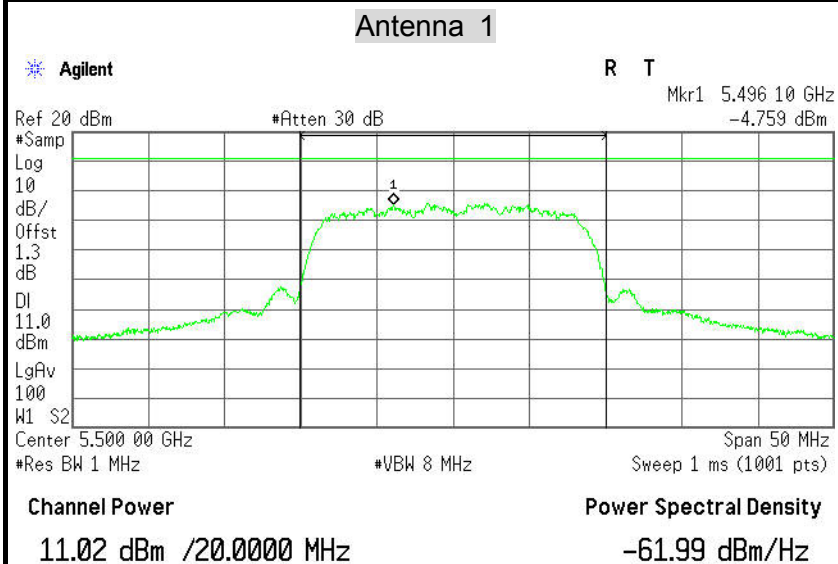
## PPSD (CH High)



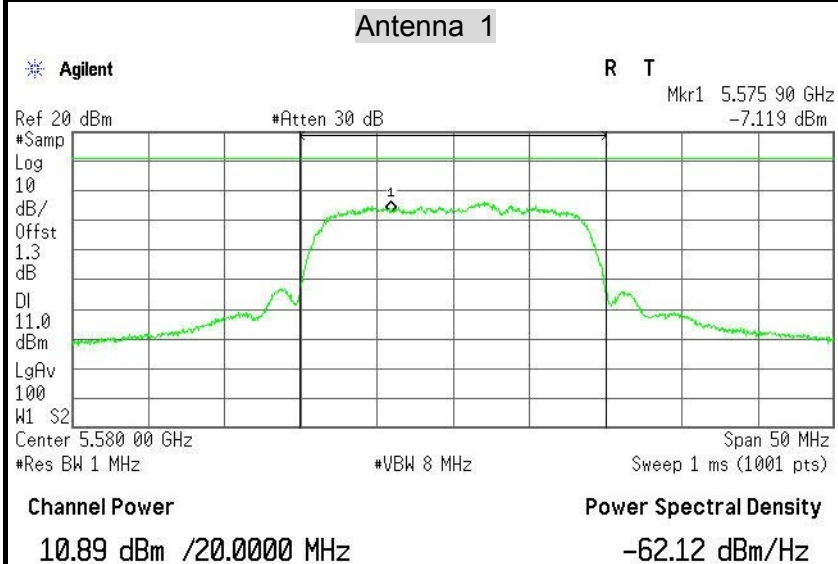


## IEEE 802.11n HT 20 MHz SISO mode / 5500 ~ 5700MHz

### PPSD (CH Low)

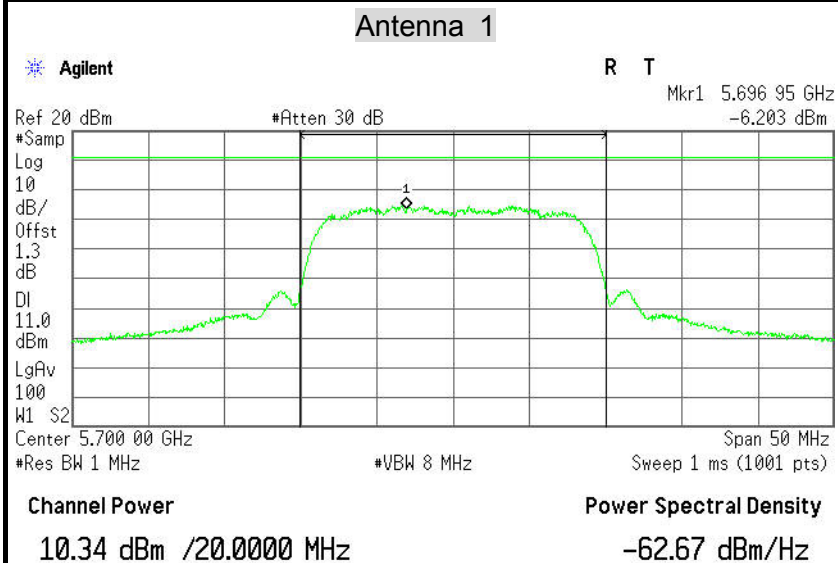


### PPSD (CH Mid)



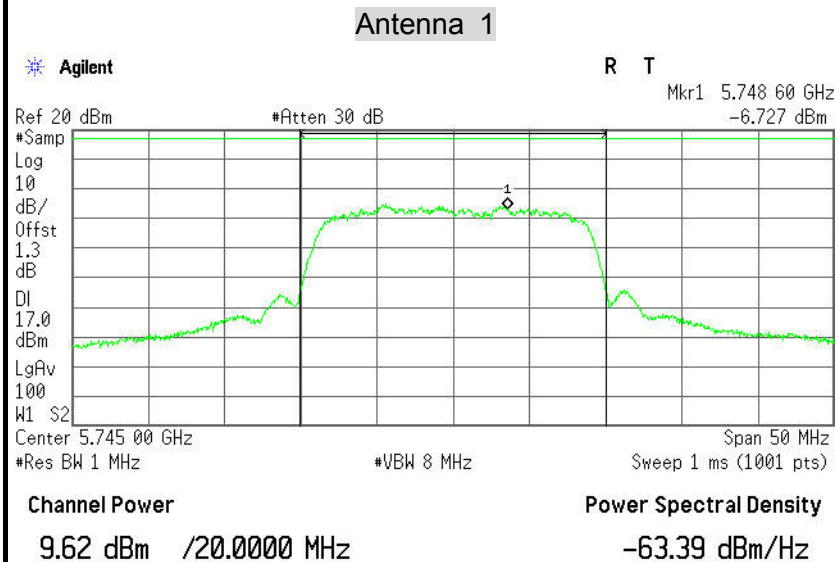


PPSD (CH High)



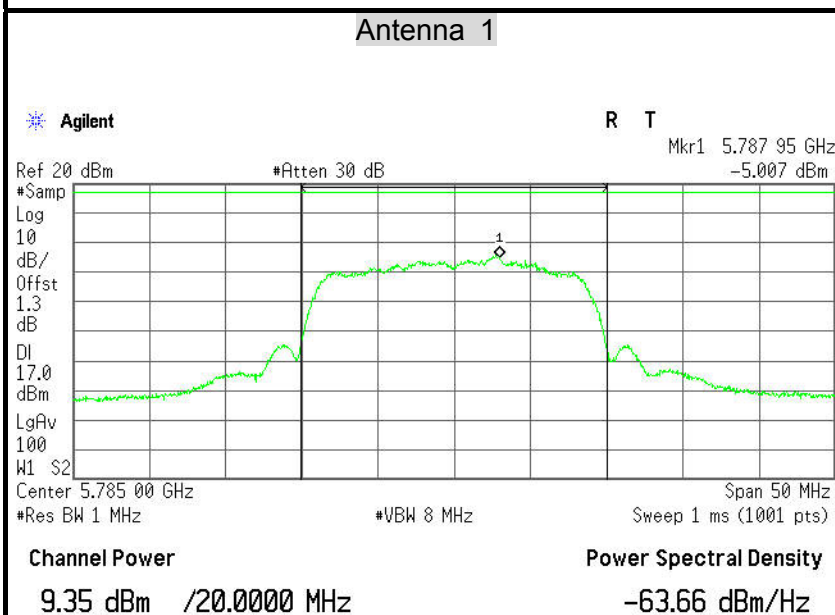
IEEE 802.11n HT 20 MHz SISO mode / 5745 ~ 5805MHz

PPSD (CH Low)

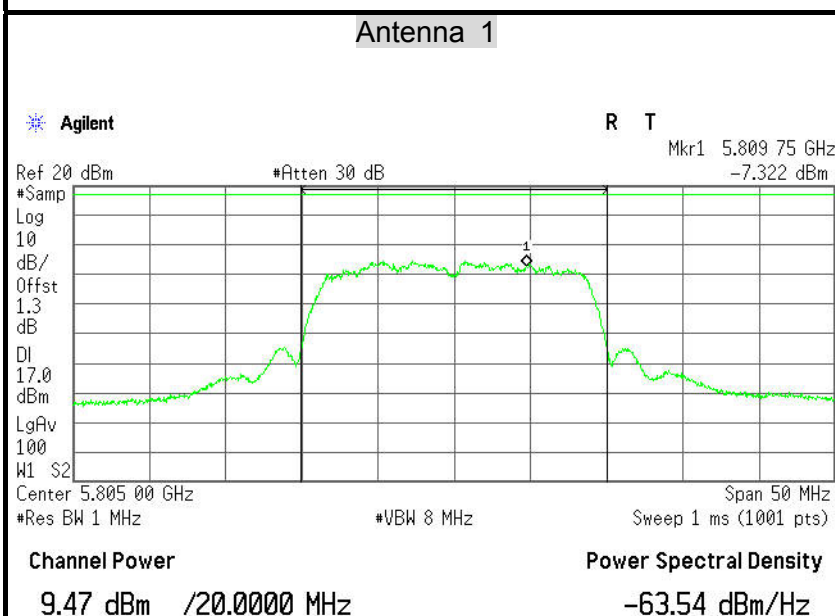




## PPSD (CH Mid)



## PPSD (CH High)





## 7.6 PEAK EXCURSION

### 7.6.1 LIMIT

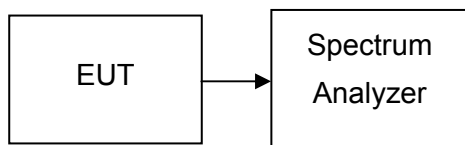
According to §15.407(a)(6), the ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the maximum conducted output power (measured as specified above) shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

### 7.6.2 MEASUREMENT EQUIPMENT USED

| Name of Equipment | Manufacturer | Model  | Serial Number | Last Calibration | Due Calibration |
|-------------------|--------------|--------|---------------|------------------|-----------------|
| Spectrum Analyzer | Agilent      | E4446A | US44300399    | 03/01/2014       | 03/01/2015      |

**Remark:** Each piece of equipment is scheduled for calibration once a year.

### 7.6.3 TEST CONFIGURATION



### 7.6.4 TEST PROCEDURE

The test is performed in accordance with <FCC Public Notice: APPENDIX A Guidelines for Assessing Unlicensed National Information Infrastructure (U-NII) Devices> – Part 15, Subpart E, August 2002.

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to spectrum.
3. Trace A, Set RBW =1MHz, VBW = 3MHz, Span >26dB Bandwidth, Max. hold.
4. Delta Mark trace A Maximum frequency and trace B same frequency.
5. Repeat the above procedure until measurements for all frequencies were complete.

### 7.6.5 TEST RESULTS

*No non-compliance noted*

**Test Data****Test mode: IEEE 802.11a mode / 5180 ~ 5240MHz**

| Channel | Frequency (MHz) | Pek Excursion (dB) |           | Limit (dB) | Margin (dB) |           | Result |
|---------|-----------------|--------------------|-----------|------------|-------------|-----------|--------|
|         |                 | Antenna 0          | Antenna 1 |            | Antenna 0   | Antenna 1 |        |
| Low     | 5180            | 7.401              | 8.358     | 13         | -5.599      | -4.642    | PASS   |
| Mid     | 5220            | 8.279              | 8.090     |            | -4.721      | -4.910    | PASS   |
| High    | 5240            | 8.066              | 8.282     |            | -4.934      | -4.718    | PASS   |

**Test mode: IEEE 802.11a mode / 5260 ~ 5320MHz**

| Channel | Frequency (MHz) | Pek Excursion (dB) |           | Limit (dB) | Margin (dB) |           | Result |
|---------|-----------------|--------------------|-----------|------------|-------------|-----------|--------|
|         |                 | Antenna 0          | Antenna 1 |            | Antenna 0   | Antenna 1 |        |
| Low     | 5260            | 7.170              | 7.482     | 13         | -5.830      | -5.518    | PASS   |
| Mid     | 5280            | 8.422              | 6.511     |            | -4.578      | -6.489    | PASS   |
| High    | 5320            | 7.534              | 7.694     |            | -5.466      | -5.306    | PASS   |

**Test mode: IEEE 802.11a mode / 5500 ~ 5700MHz**

| Channel | Frequency (MHz) | Pek Excursion (dB) |           | Limit (dB) | Margin (dB) |           | Result |
|---------|-----------------|--------------------|-----------|------------|-------------|-----------|--------|
|         |                 | Antenna 0          | Antenna 1 |            | Antenna 0   | Antenna 1 |        |
| Low     | 5500            | 6.860              | 7.072     | 13         | -6.140      | -5.928    | PASS   |
| Mid     | 5580            | 7.098              | 7.548     |            | -5.902      | -5.452    | PASS   |
| High    | 5700            | 7.304              | 7.097     |            | -5.696      | -5.903    | PASS   |

**Test mode: IEEE 802.11a mode / 5745 ~ 5805MHz**

| Channel | Frequency (MHz) | Pek Excursion (dB) |           | Limit (dB) | Margin (dB) |           | Result |
|---------|-----------------|--------------------|-----------|------------|-------------|-----------|--------|
|         |                 | Antenna 0          | Antenna 1 |            | Antenna 0   | Antenna 1 |        |
| Low     | 5745            | 8.066              | 6.934     | 13         | -4.934      | -6.066    | PASS   |
| Mid     | 5785            | 7.610              | 7.376     |            | -5.390      | -5.624    | PASS   |
| High    | 5805            | 7.249              | 7.766     |            | -5.751      | -5.234    | PASS   |

**Test mode: IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz**

| Channel | Frequency (MHz) | Pek Excursion (dB) |           | Limit (dB) | Margin (dB) |           | Result |
|---------|-----------------|--------------------|-----------|------------|-------------|-----------|--------|
|         |                 | Antenna 0          | Antenna 1 |            | Antenna 0   | Antenna 1 |        |
| Low     | 5180            | 6.917              | 8.587     | 13         | -6.083      | -4.413    | PASS   |
| Mid     | 5220            | 7.971              | 7.259     |            | -5.029      | -5.741    | PASS   |
| High    | 5240            | 7.263              | 8.485     |            | -5.737      | -4.515    | PASS   |

**Test mode: IEEE 802.11n HT 20 MHz mode / 5260 ~ 5320MHz**

| Channel | Frequency (MHz) | Pek Excursion (dB) |           | Limit (dB) | Margin (dB) |           | Result |
|---------|-----------------|--------------------|-----------|------------|-------------|-----------|--------|
|         |                 | Antenna 0          | Antenna 1 |            | Antenna 0   | Antenna 1 |        |
| Low     | 5260            | 7.400              | 8.037     | 13         | -5.600      | -4.963    | PASS   |
| Mid     | 5280            | 8.212              | 7.369     |            | -4.788      | -5.631    | PASS   |
| High    | 5320            | 7.090              | 8.048     |            | -5.910      | -4.952    | PASS   |

**Test mode: IEEE 802.11n HT 20 MHz mode / 5500 ~ 5700MHz**

| Channel | Frequency (MHz) | Pek Excursion (dB) |           | Limit (dB) | Margin (dB) |           | Result |
|---------|-----------------|--------------------|-----------|------------|-------------|-----------|--------|
|         |                 | Antenna 0          | Antenna 1 |            | Antenna 0   | Antenna 1 |        |
| Low     | 5500            | 7.059              | 8.196     | 13         | -5.941      | -4.804    | PASS   |
| Mid     | 5580            | 10.000             | 8.398     |            | -3.000      | -4.602    | PASS   |
| High    | 5700            | 8.507              | 8.646     |            | -4.493      | -4.354    | PASS   |

**Test mode: IEEE 802.11n HT 20 MHz mode / 5745 ~ 5805MHz**

| Channel | Frequency (MHz) | Pek Excursion (dB) |           | Limit (dB) | Margin (dB) |           | Result |
|---------|-----------------|--------------------|-----------|------------|-------------|-----------|--------|
|         |                 | Antenna 0          | Antenna 1 |            | Antenna 0   | Antenna 1 |        |
| Low     | 5745            | 7.435              | 8.196     | 13         | -5.565      | -4.804    | PASS   |
| Mid     | 5785            | 6.980              | 8.335     |            | -6.020      | -4.665    | PASS   |
| High    | 5805            | 7.579              | 8.738     |            | -5.421      | -4.262    | PASS   |

**Test mode: IEEE 802.11n HT 20 MHz SISO mode / 5180 ~ 5240MHz**

| Channel | Frequency (MHz) | Pek Excursion (dB) |           | Limit (dB) | Margin (dB) |           | Result |
|---------|-----------------|--------------------|-----------|------------|-------------|-----------|--------|
|         |                 | Antenna 0          | Antenna 1 |            | Antenna 0   | Antenna 1 |        |
| Low     | 5180            | 6.795              | 7.583     | 13         | -6.205      | -5.417    | PASS   |
| Mid     | 5220            | 6.724              | 7.198     |            | -6.276      | -5.802    | PASS   |
| High    | 5240            | 7.079              | 6.619     |            | -5.921      | -6.381    | PASS   |

**Test mode: IEEE 802.11n HT 20 MHz SISO mode / 5260 ~ 5320MHz**

| Channel | Frequency (MHz) | Pek Excursion (dB) |           | Limit (dB) | Margin (dB) |           | Result |
|---------|-----------------|--------------------|-----------|------------|-------------|-----------|--------|
|         |                 | Antenna 0          | Antenna 1 |            | Antenna 0   | Antenna 1 |        |
| Low     | 5260            | 7.942              | 7.909     | 13         | -5.058      | -5.091    | PASS   |
| Mid     | 5280            | 7.678              | 6.654     |            | -5.322      | -6.346    | PASS   |
| High    | 5320            | 6.765              | 6.347     |            | -6.235      | -6.653    | PASS   |

**Test mode: IEEE 802.11n HT 20 MHz SISO mode / 5500 ~ 5700MHz**

| Channel | Frequency (MHz) | Pek Excursion (dB) |           | Limit (dB) | Margin (dB) |           | Result |
|---------|-----------------|--------------------|-----------|------------|-------------|-----------|--------|
|         |                 | Antenna 0          | Antenna 1 |            | Antenna 0   | Antenna 1 |        |
| Low     | 5500            | 7.744              | 7.837     | 13         | -5.256      | -5.163    | PASS   |
| Mid     | 5580            | 7.298              | 7.156     |            | -5.702      | -5.844    | PASS   |
| High    | 5700            | 7.786              | 7.740     |            | -5.214      | -5.260    | PASS   |

**Test mode: IEEE 802.11n HT 20 MHz SISO mode / 5745 ~ 5805MHz**

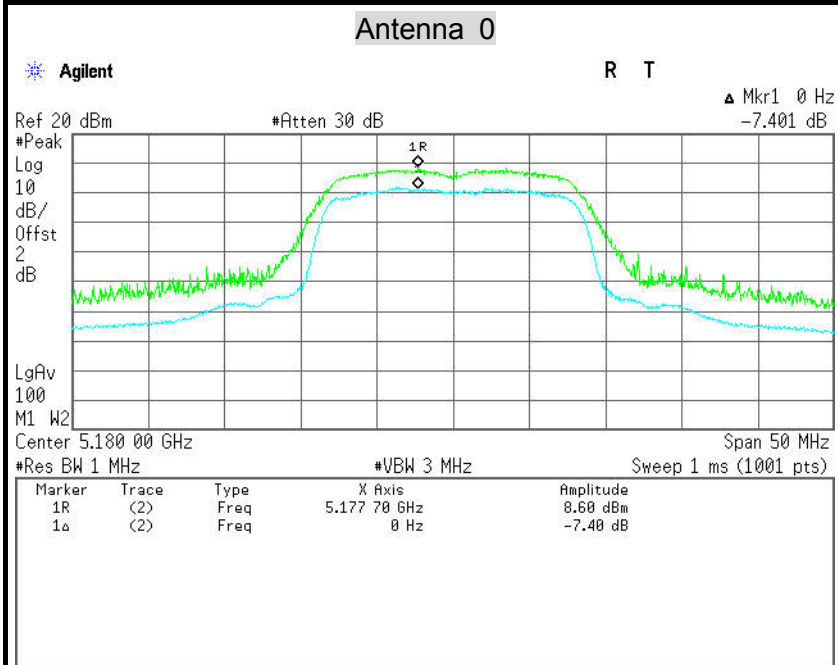
| Channel | Frequency (MHz) | Pek Excursion (dB) |           | Limit (dB) | Margin (dB) |           | Result |
|---------|-----------------|--------------------|-----------|------------|-------------|-----------|--------|
|         |                 | Antenna 0          | Antenna 1 |            | Antenna 0   | Antenna 1 |        |
| Low     | 5745            | 6.580              | 8.294     | 13         | -6.420      | -4.706    | PASS   |
| Mid     | 5785            | 7.544              | 7.680     |            | -5.456      | -5.320    | PASS   |
| High    | 5805            | 7.827              | 6.347     |            | -5.173      | -6.653    | PASS   |



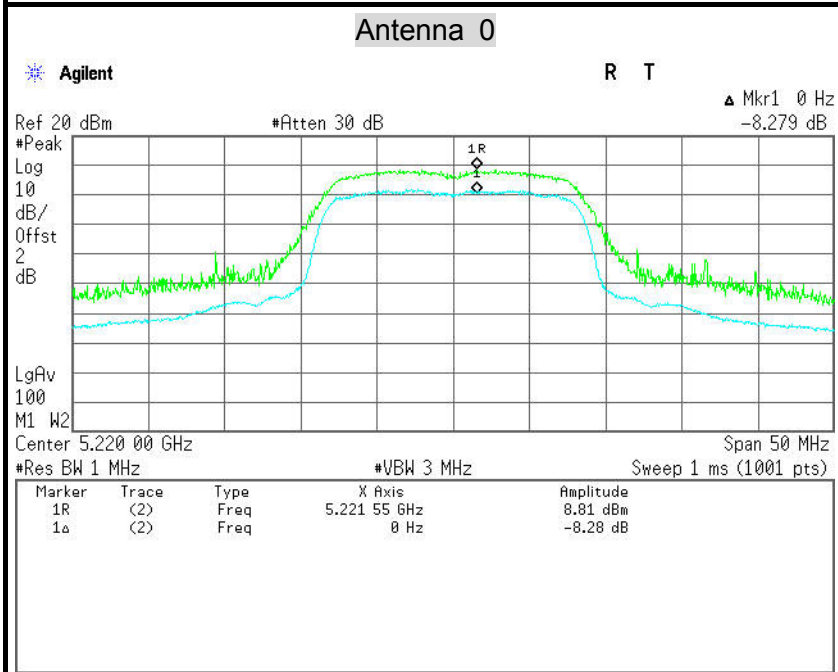
## Test Plot

IEEE 802.11a mode / 5180 ~ 5240MHz

CH Low

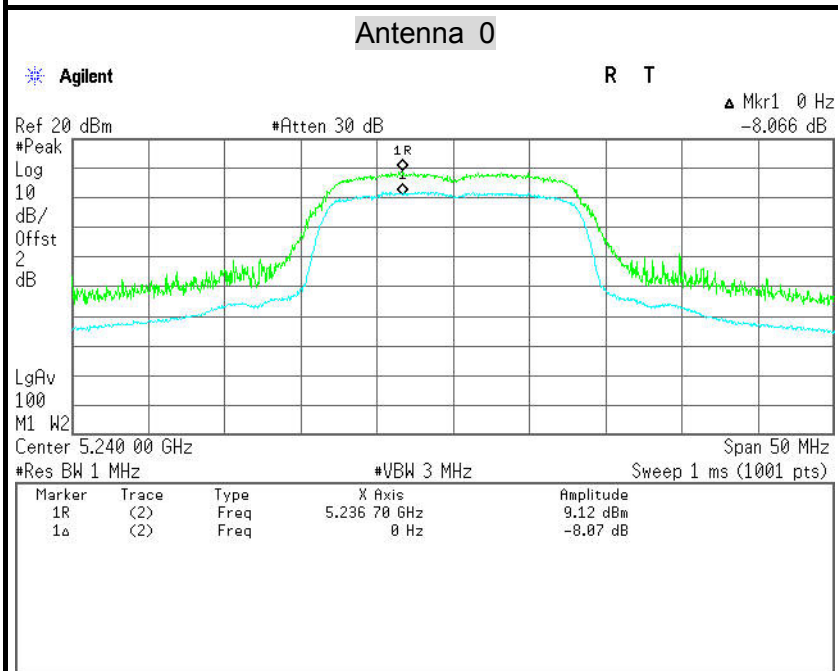


CH Mid



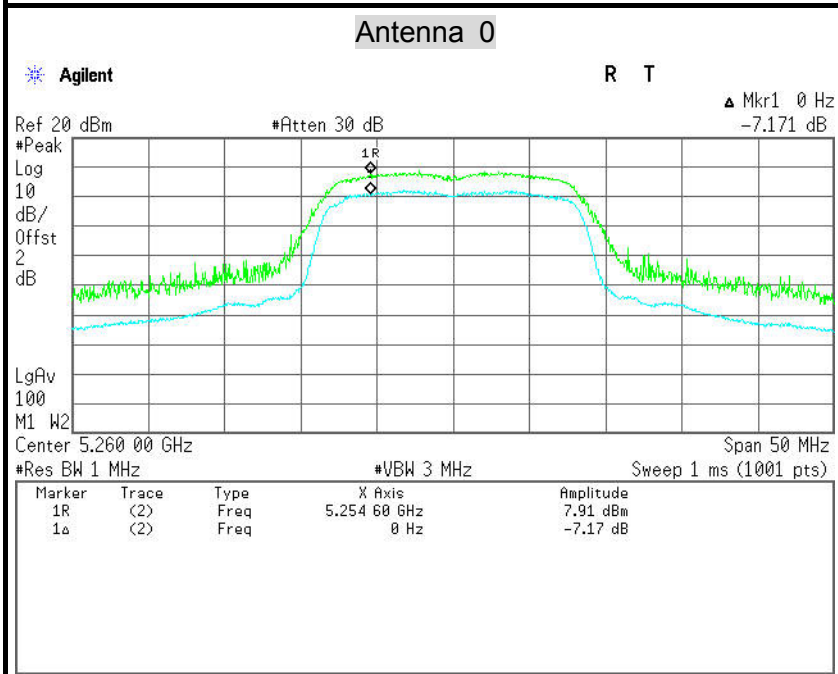


## PPSD (CH High)



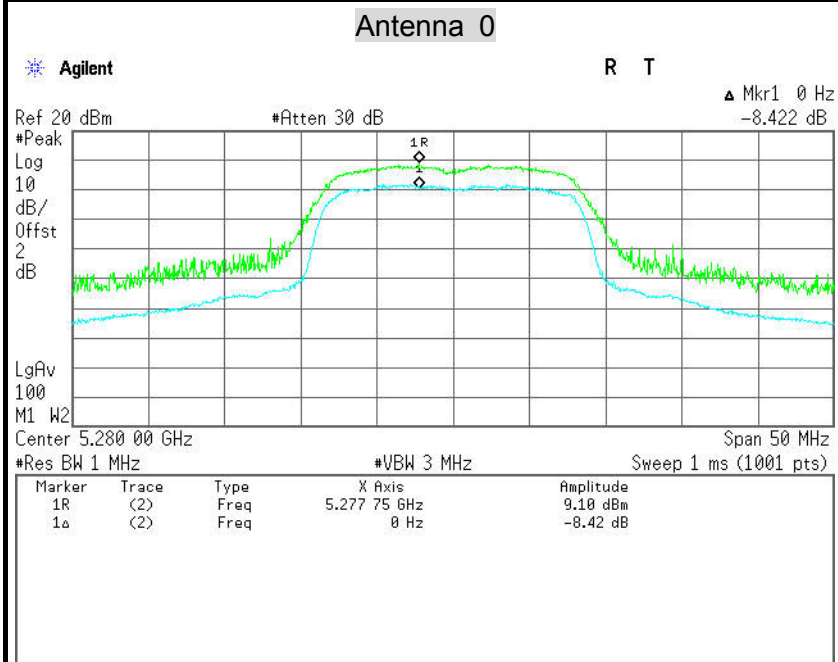
## IEEE 802.11a mode / 5260 ~ 5320MHz

### CH Low

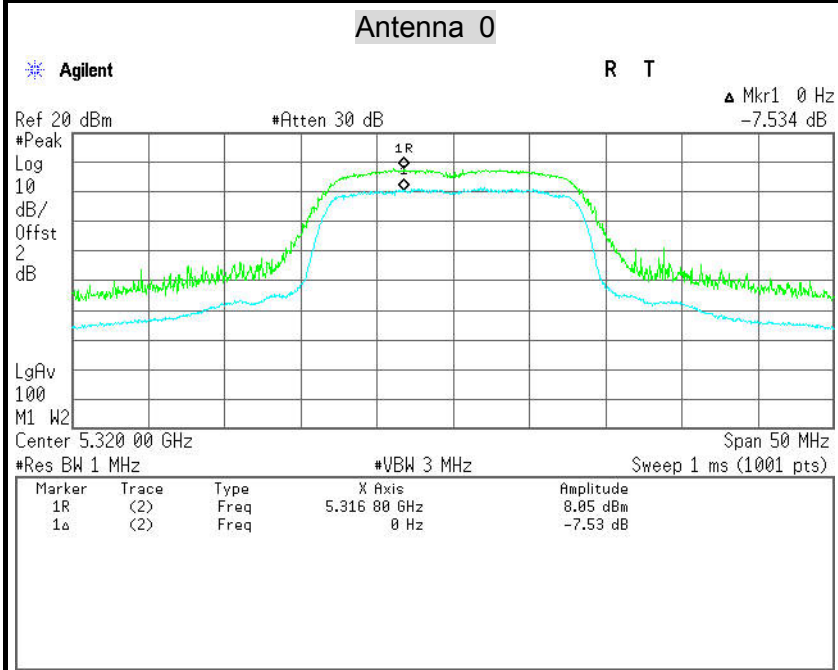




## CH Mid



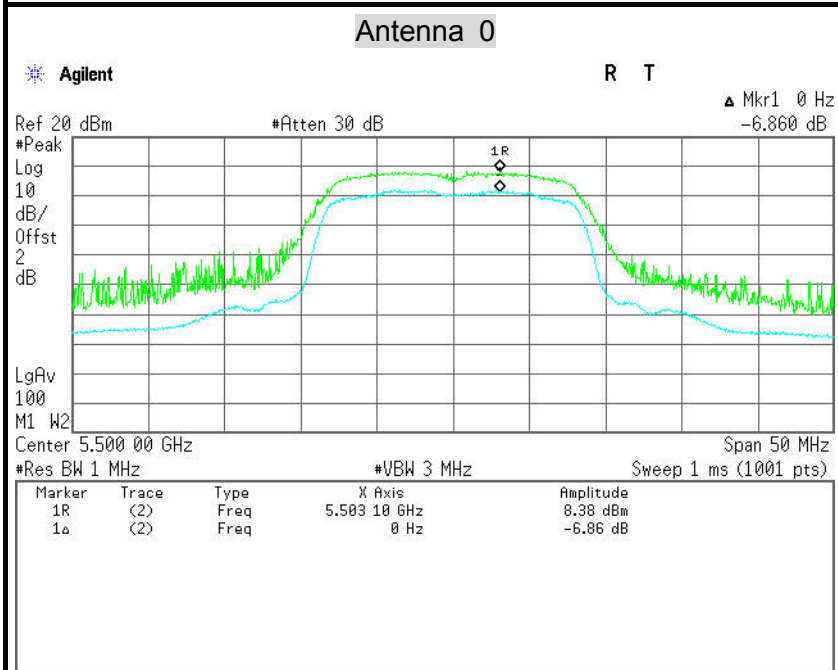
## CH High



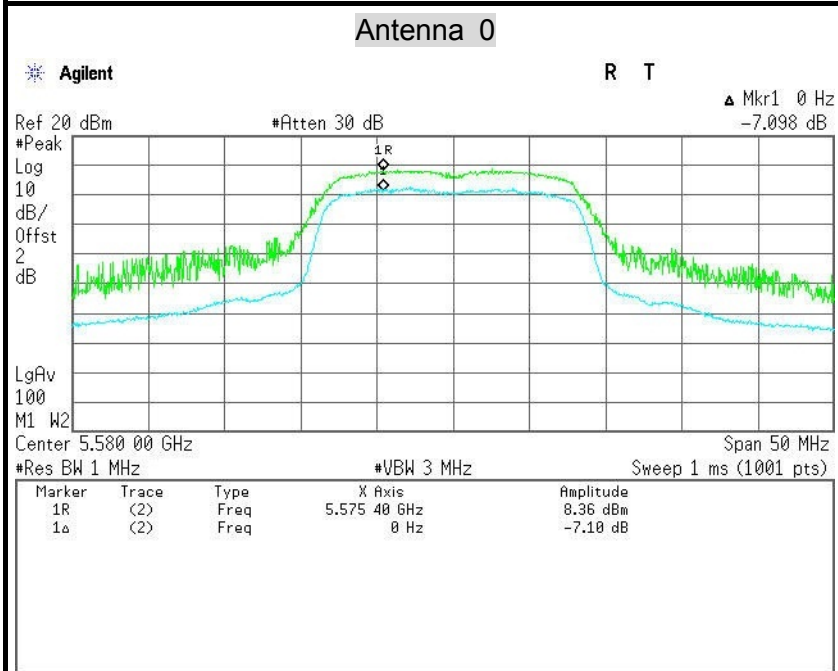


## IEEE 802.11a mode / 5500 ~ 5700MHz

### CH Low

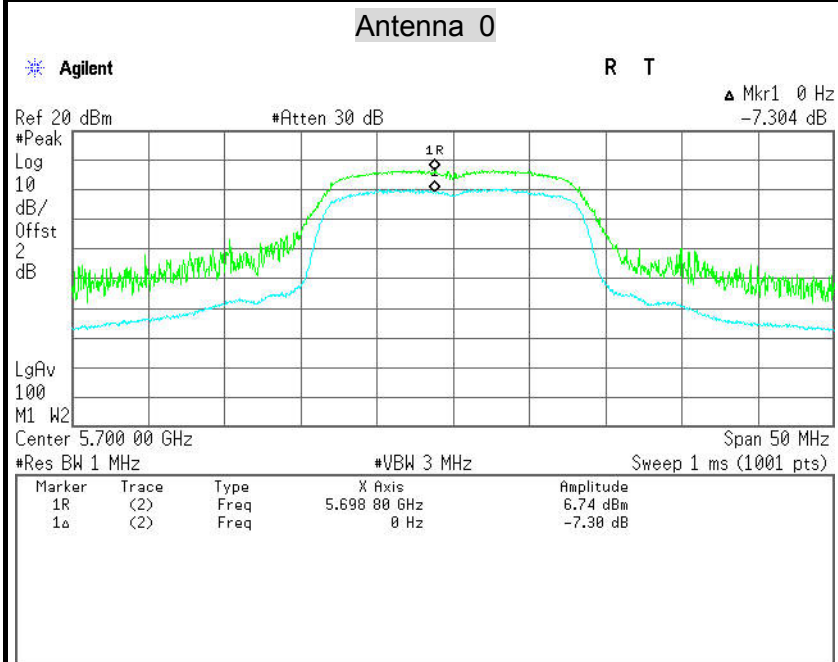


### CH Mid



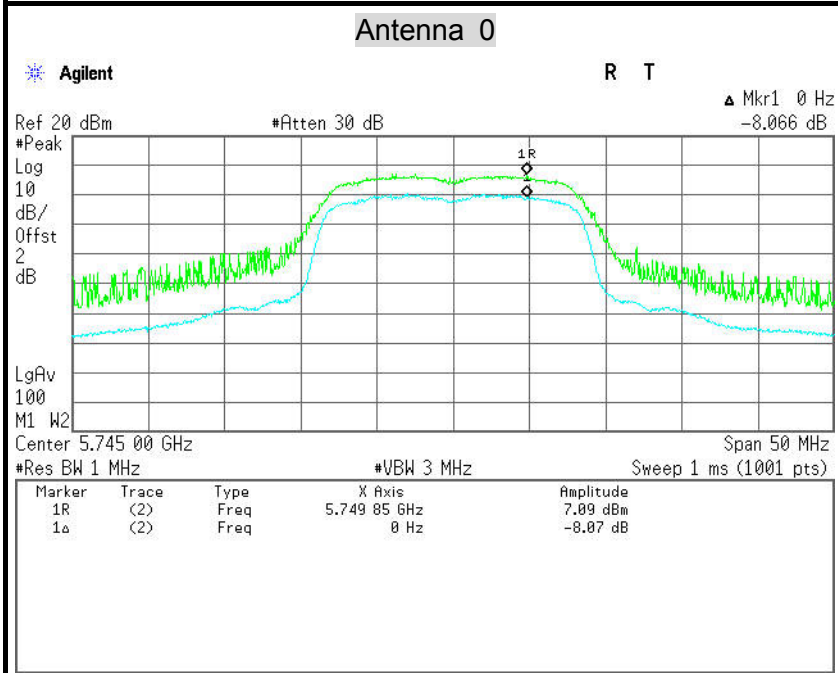


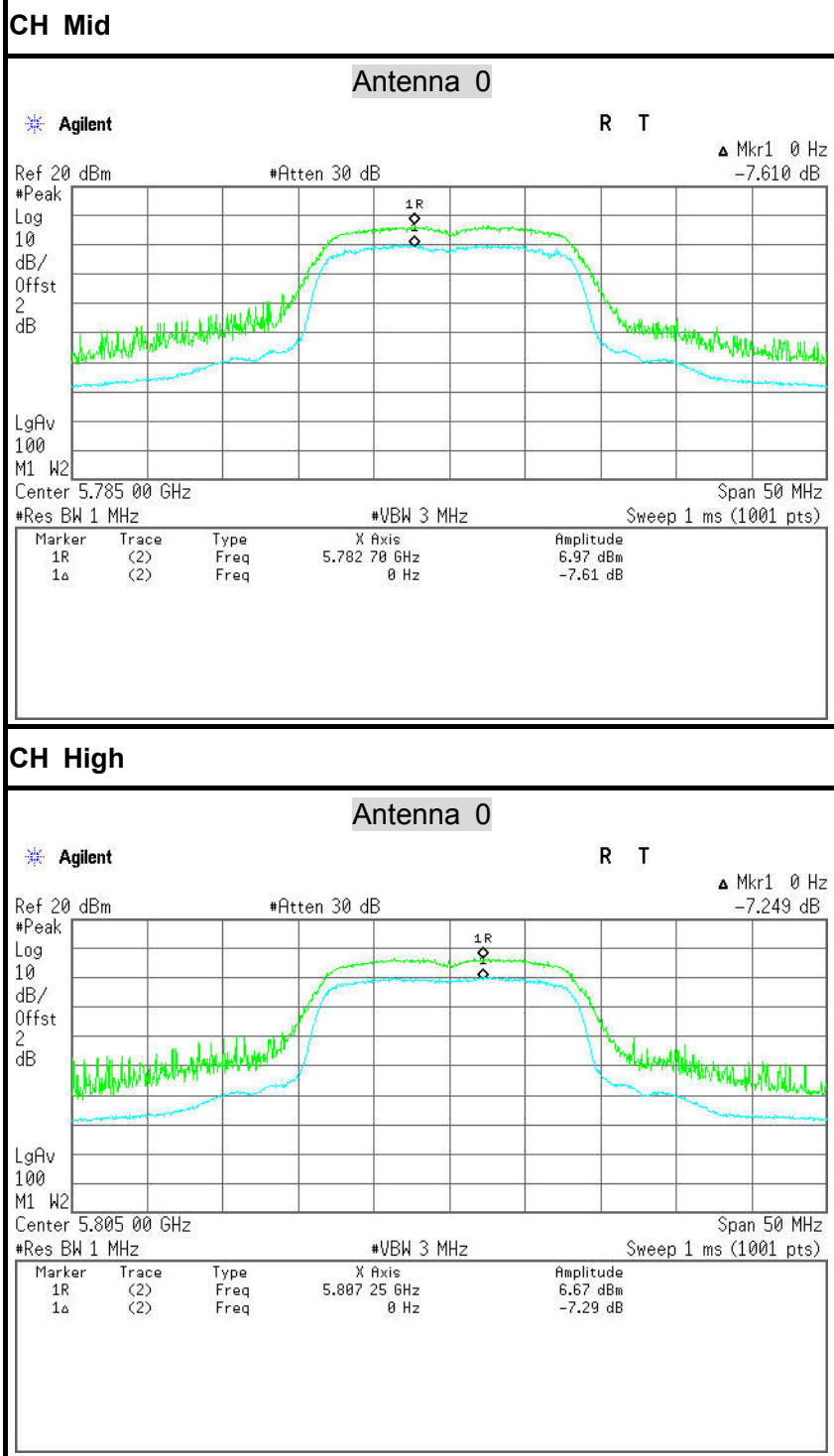
CH High



IEEE 802.11a mode / 5745 ~ 5805MHz

CH Low

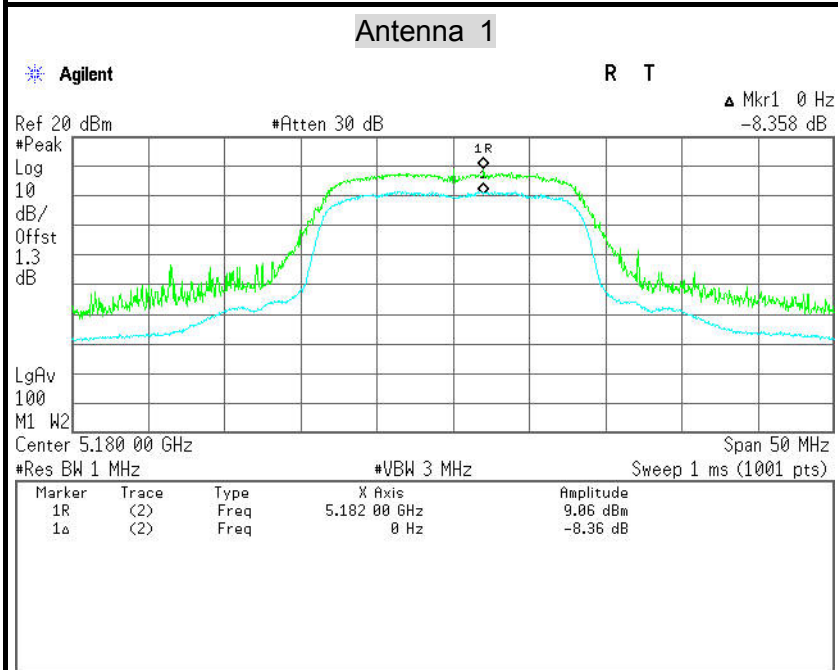




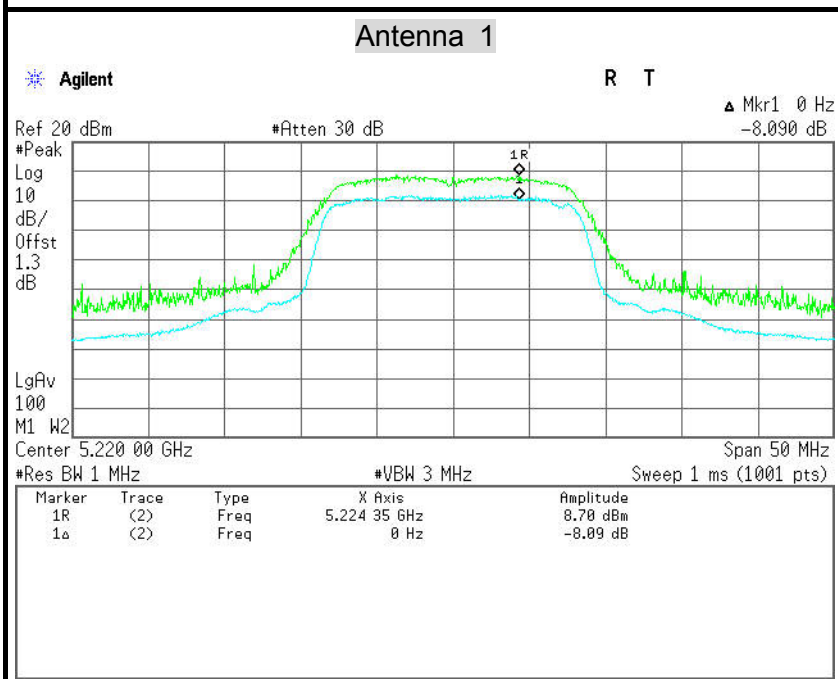


## IEEE 802.11a mode / 5180 ~ 5240MHz

### CH Low

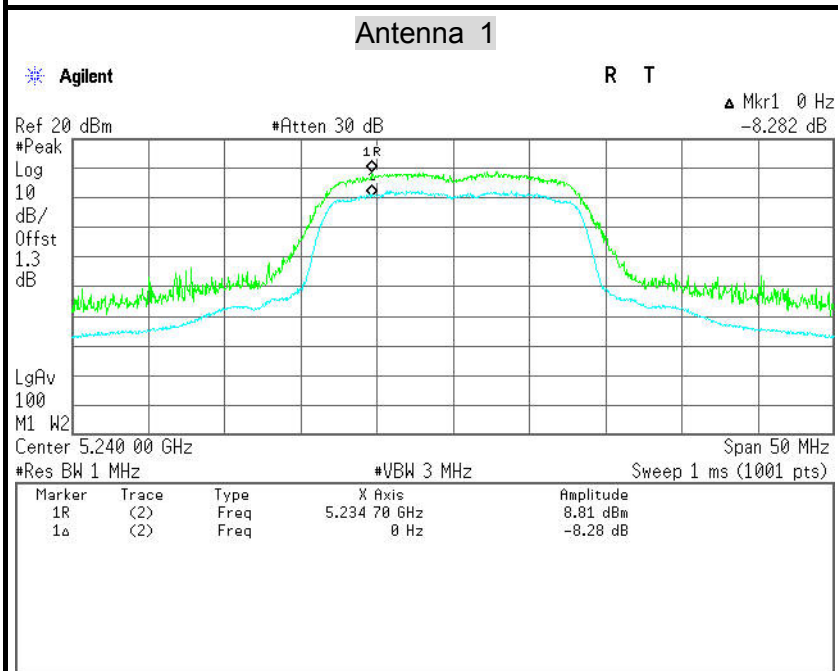


### CH Mid



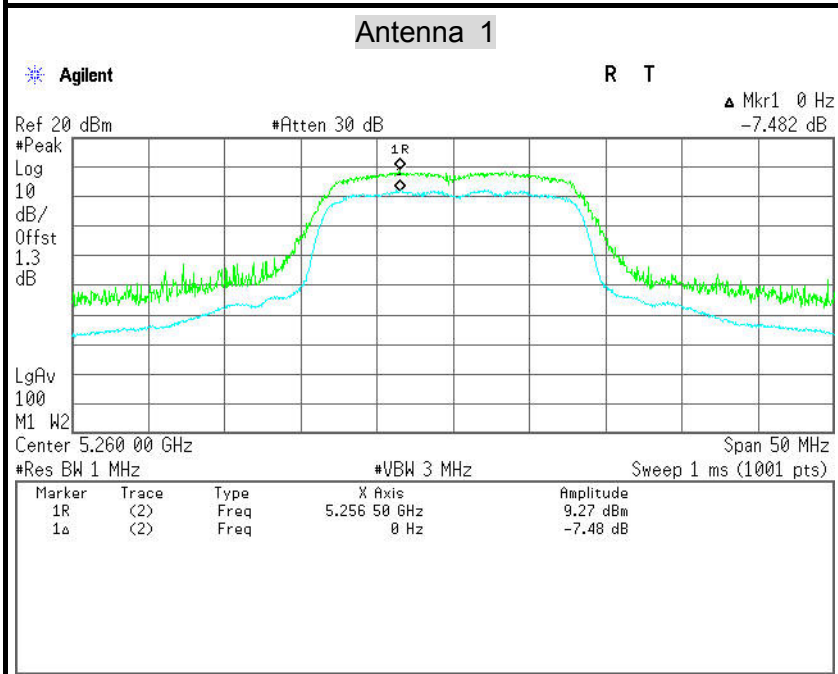


## CH High



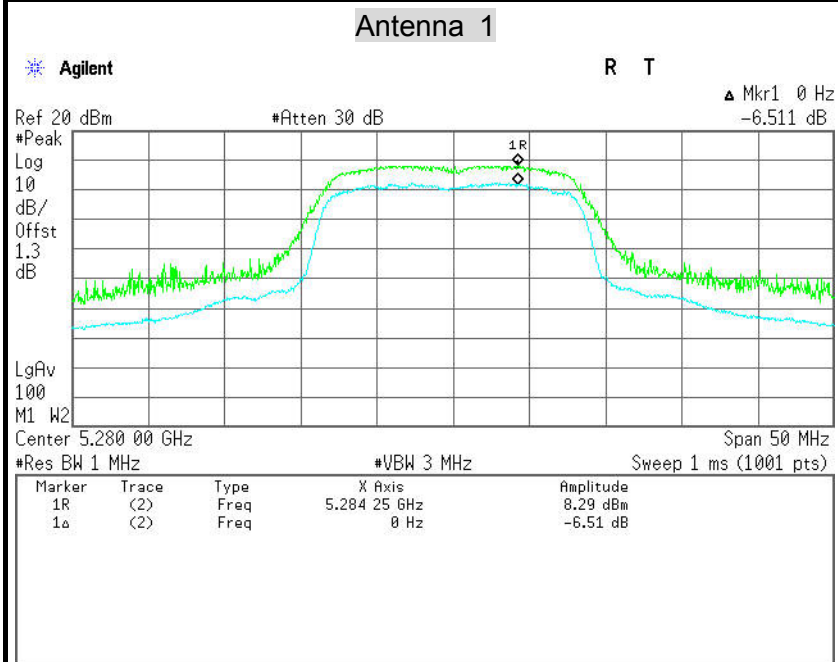
## IEEE 802.11a mode / 5260 ~ 5320MHz

## CH Low

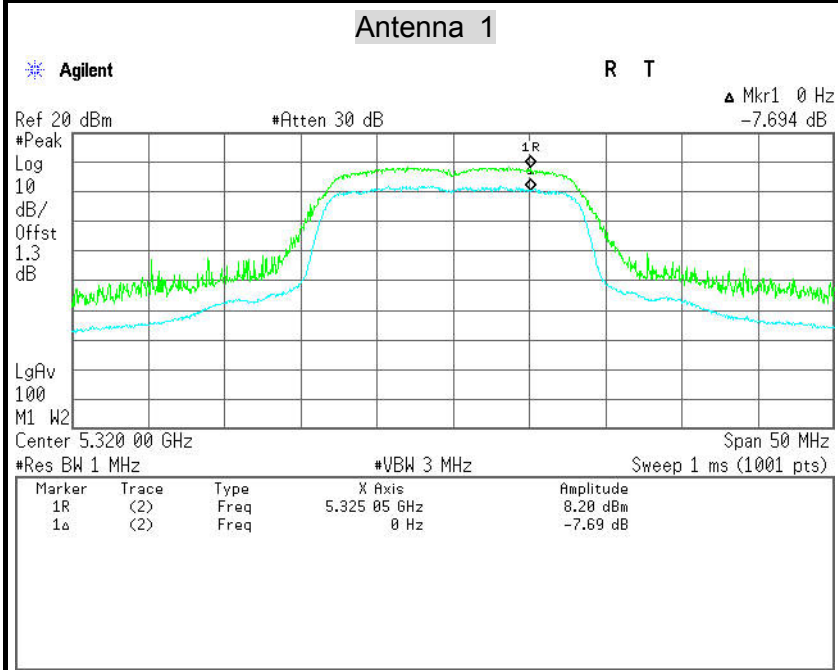




## CH Mid



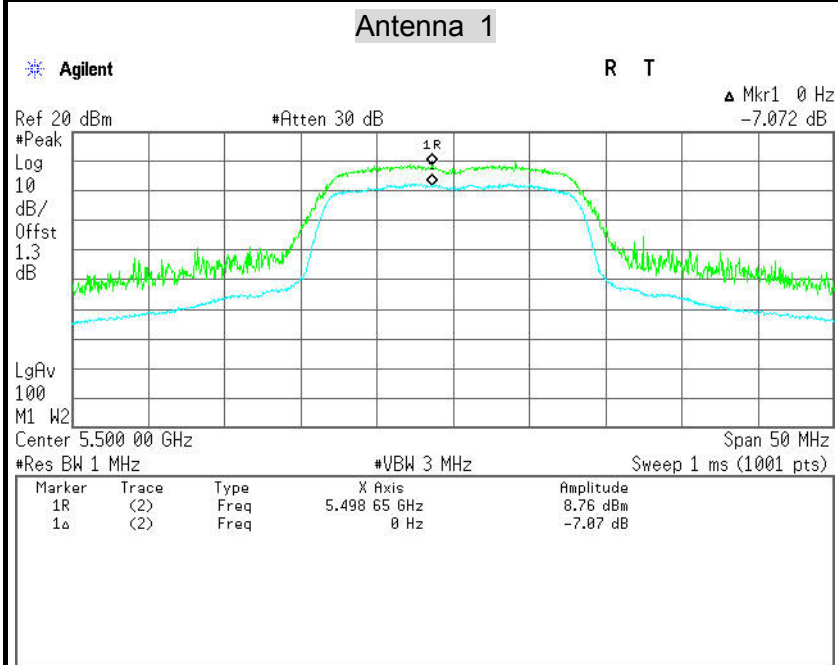
## CH High



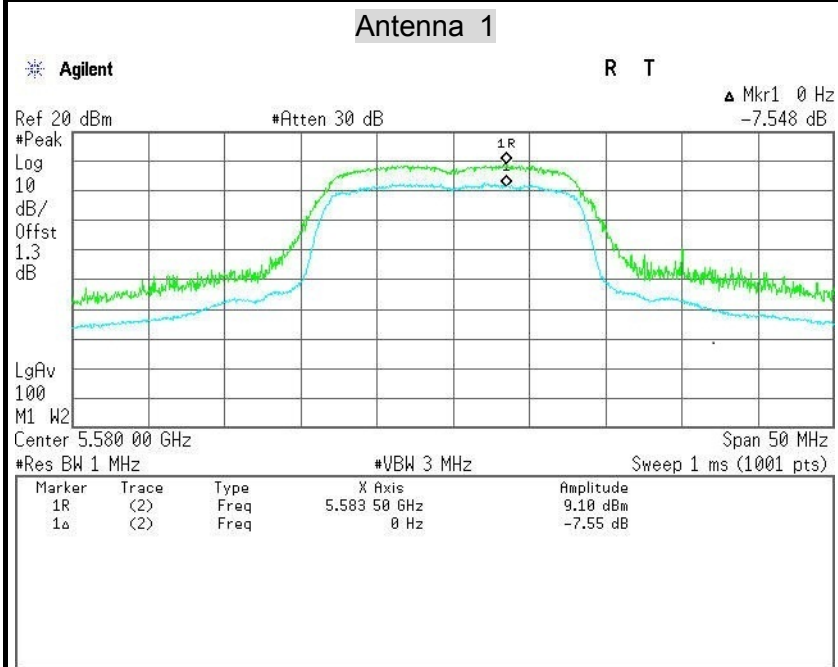


## IEEE 802.11a mode / 5500 ~ 5700MHz

### CH Low

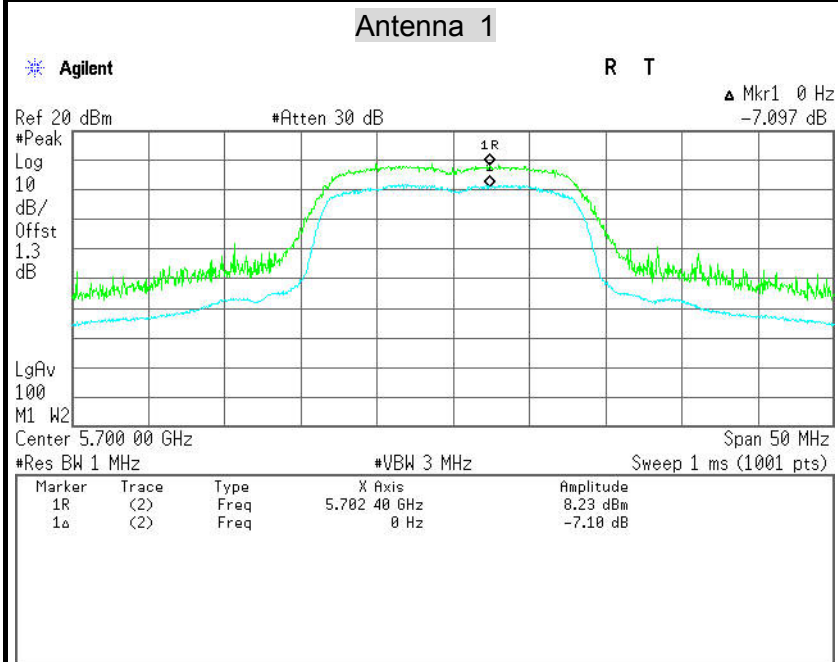


### CH Mid



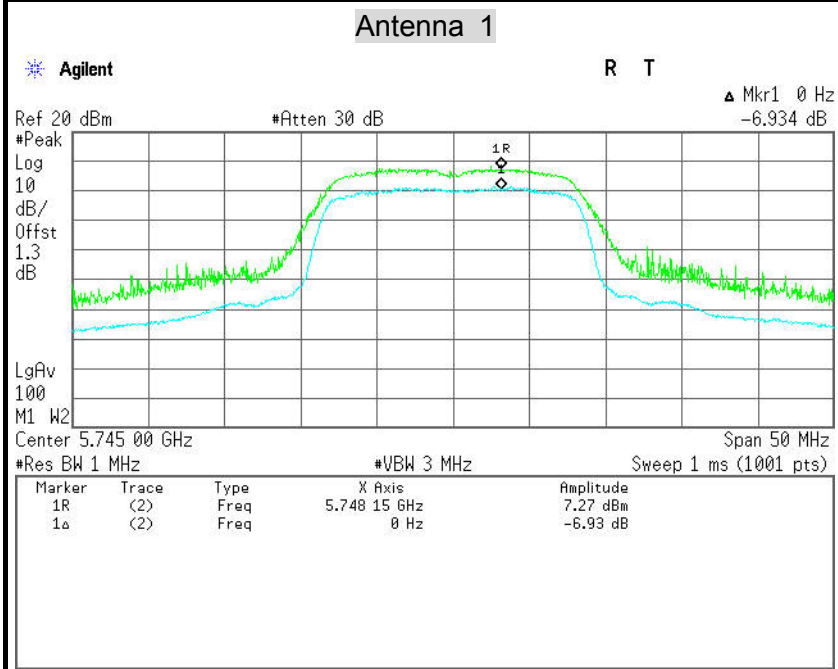


## CH High



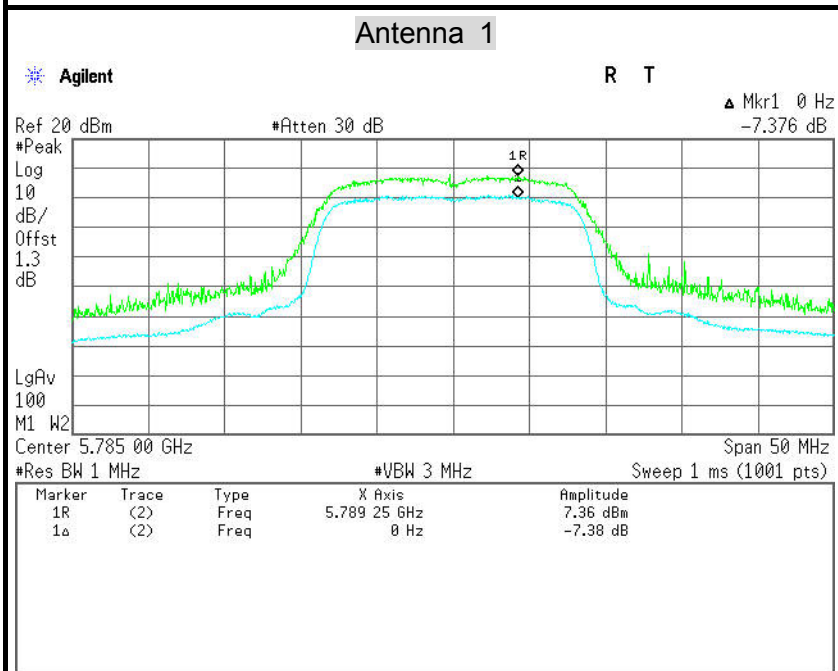
## IEEE 802.11a mode / 5745 ~ 5805MHz

## CH Low

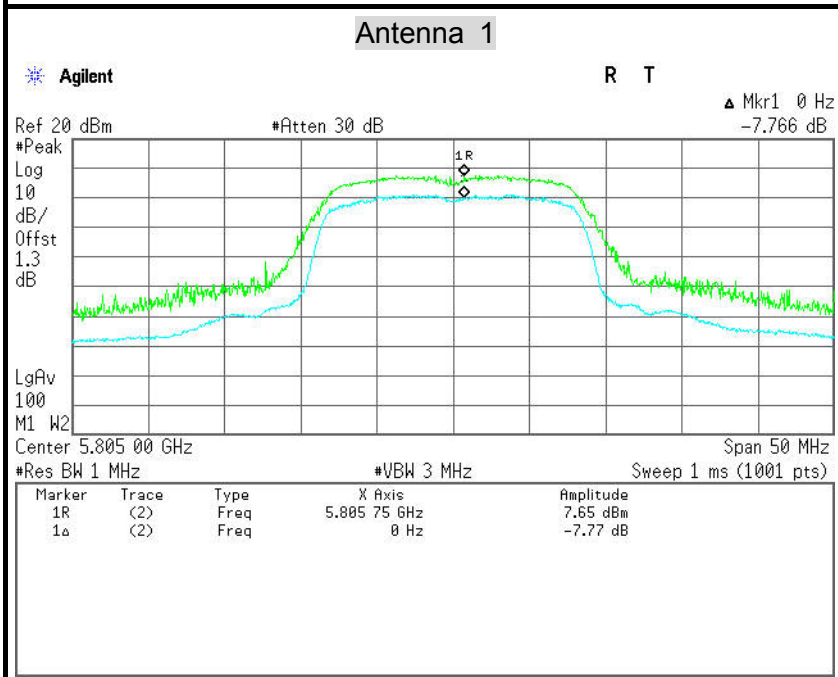




## CH Mid



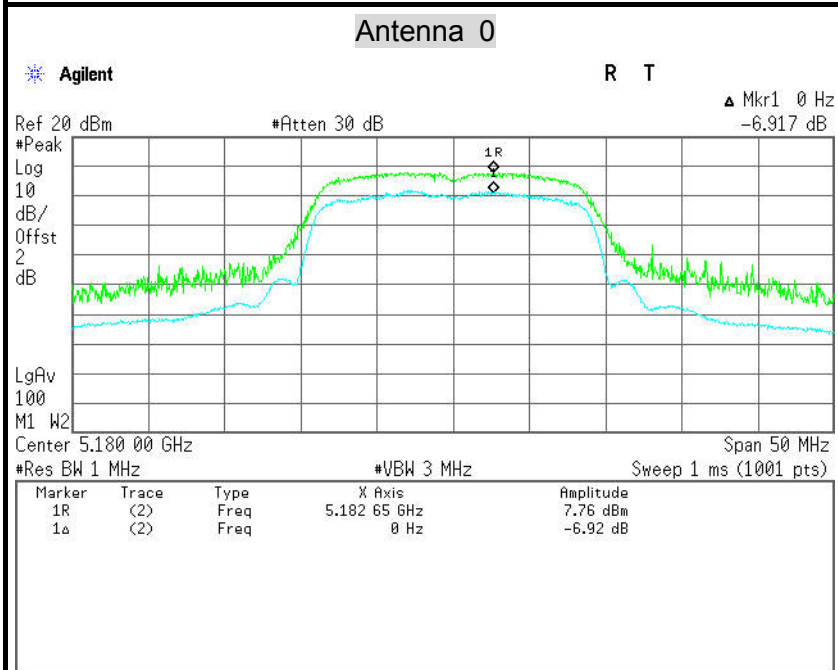
## CH High



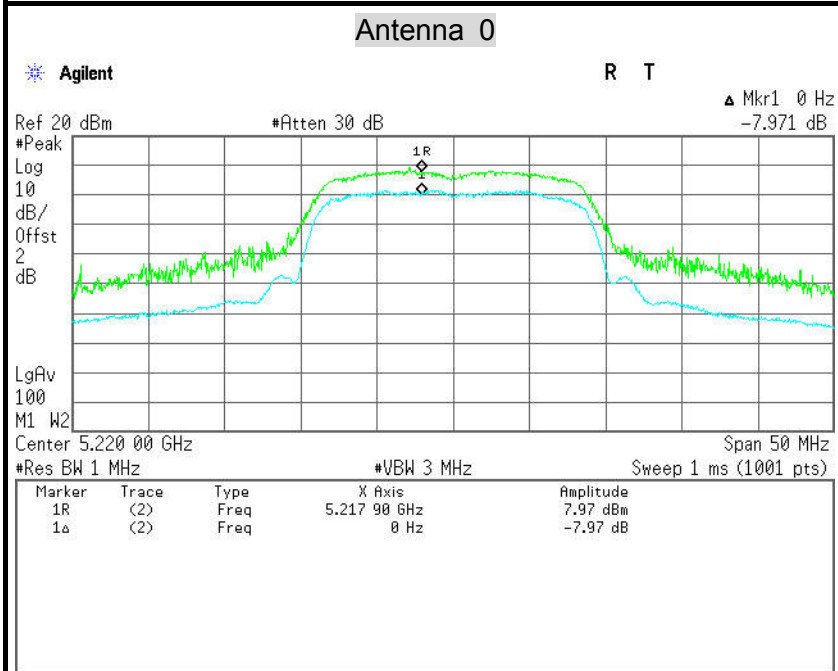


## IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz

### CH Low

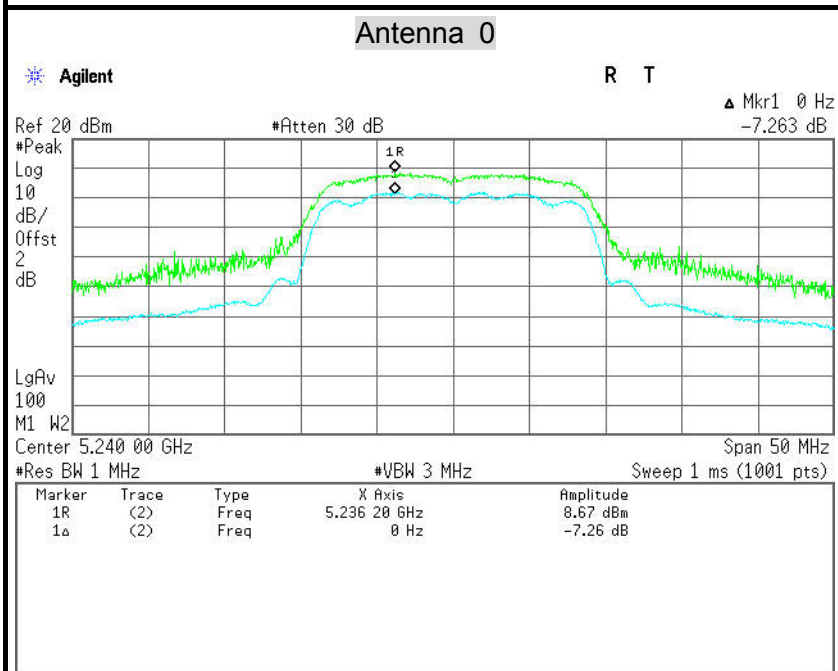


### CH Mid



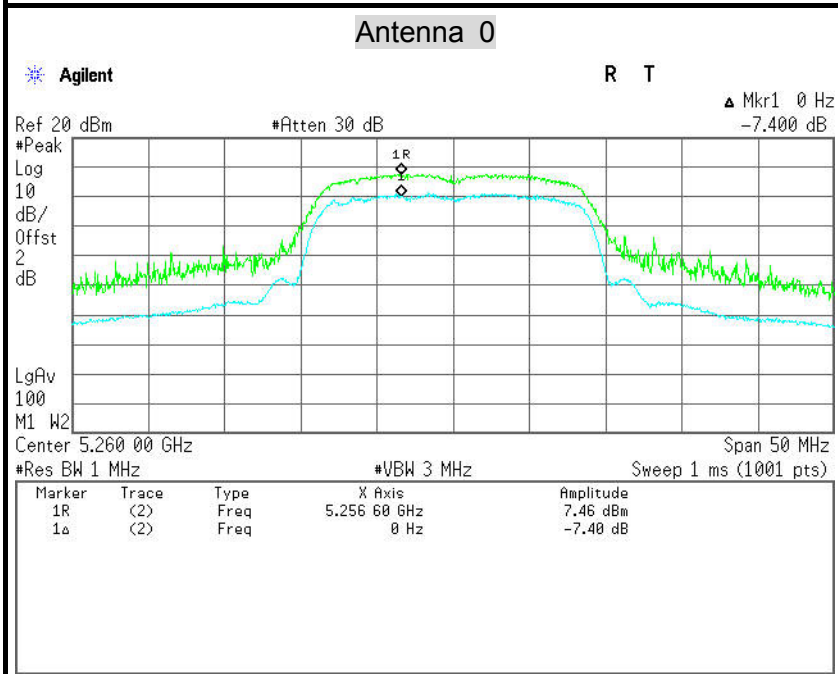


CH High



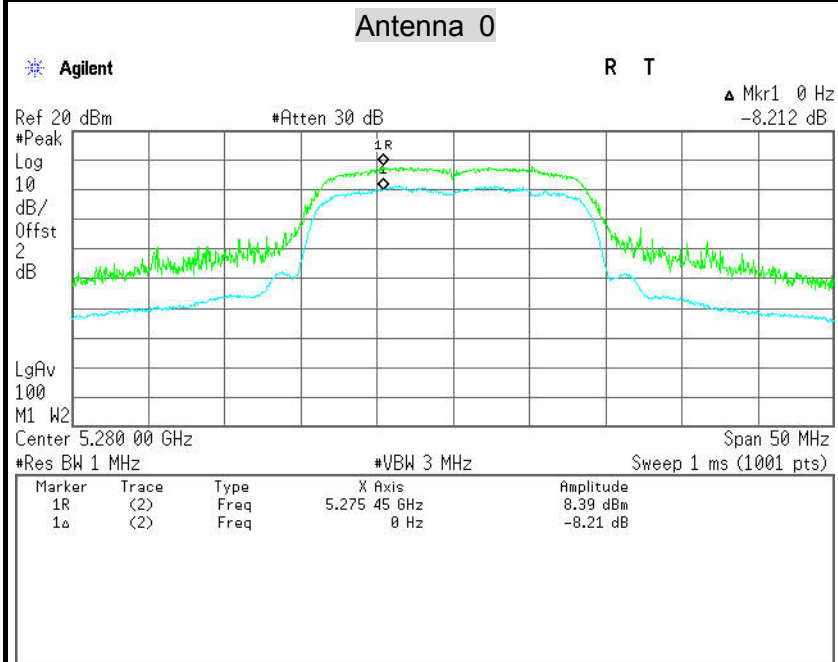
IEEE 802.11n HT 20 MHz mode / 5260 ~ 5320MHz

CH Low

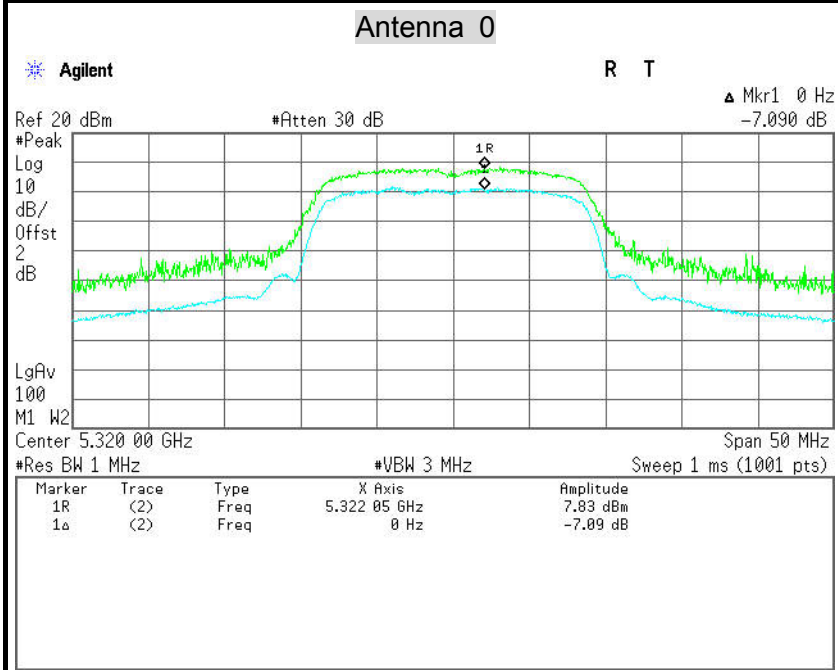




## CH Mid



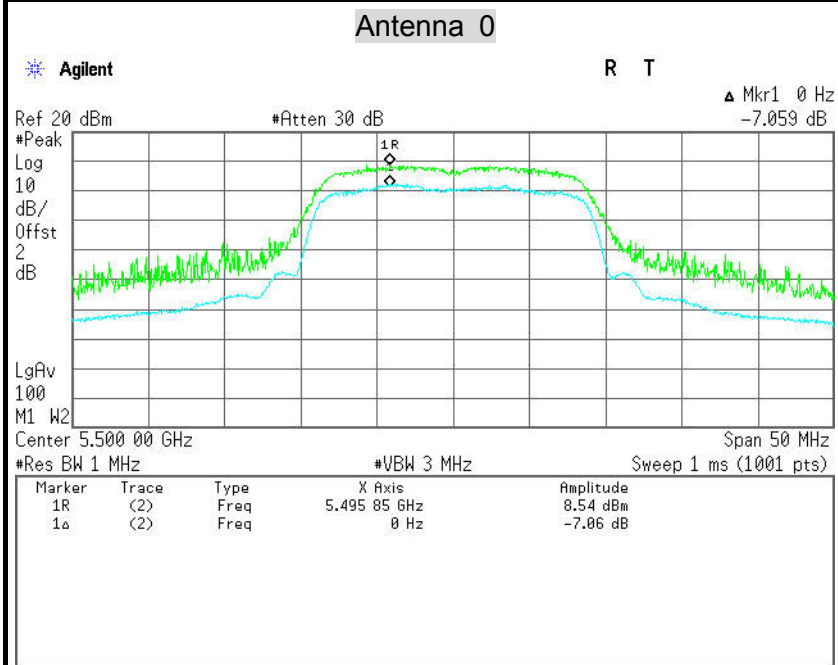
## CH High



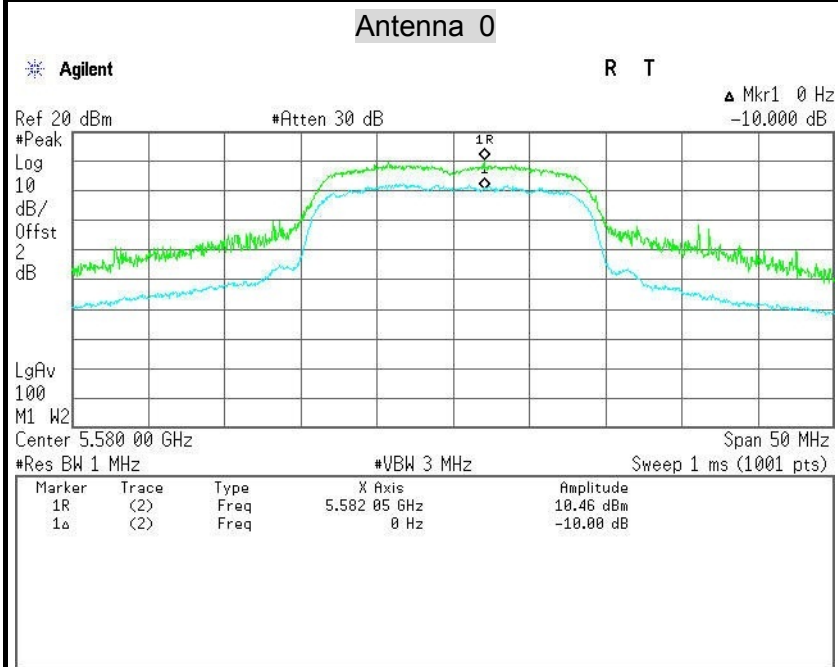


## IEEE 802.11n HT 20 MHz mode / 5500 ~ 5700MHz

### CH Low

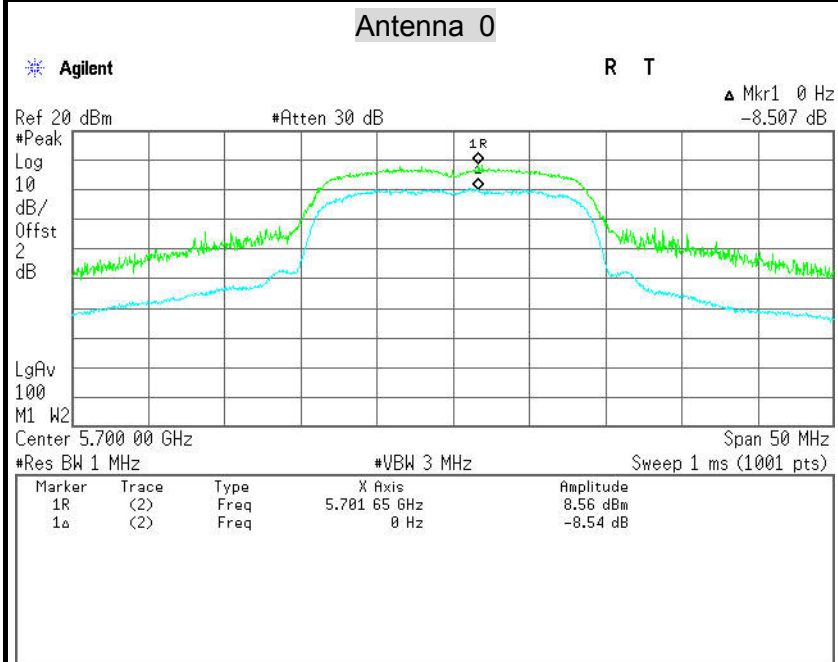


### CH Mid



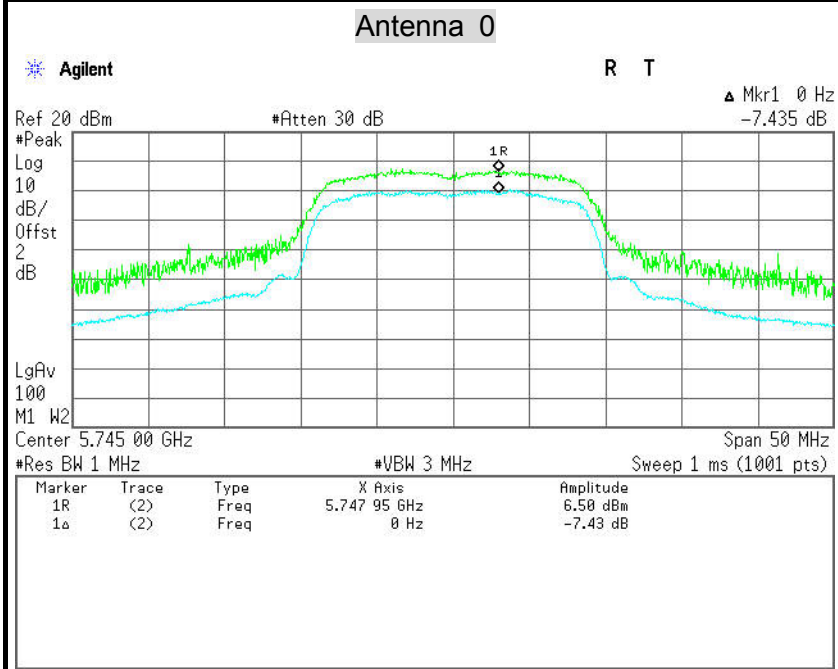


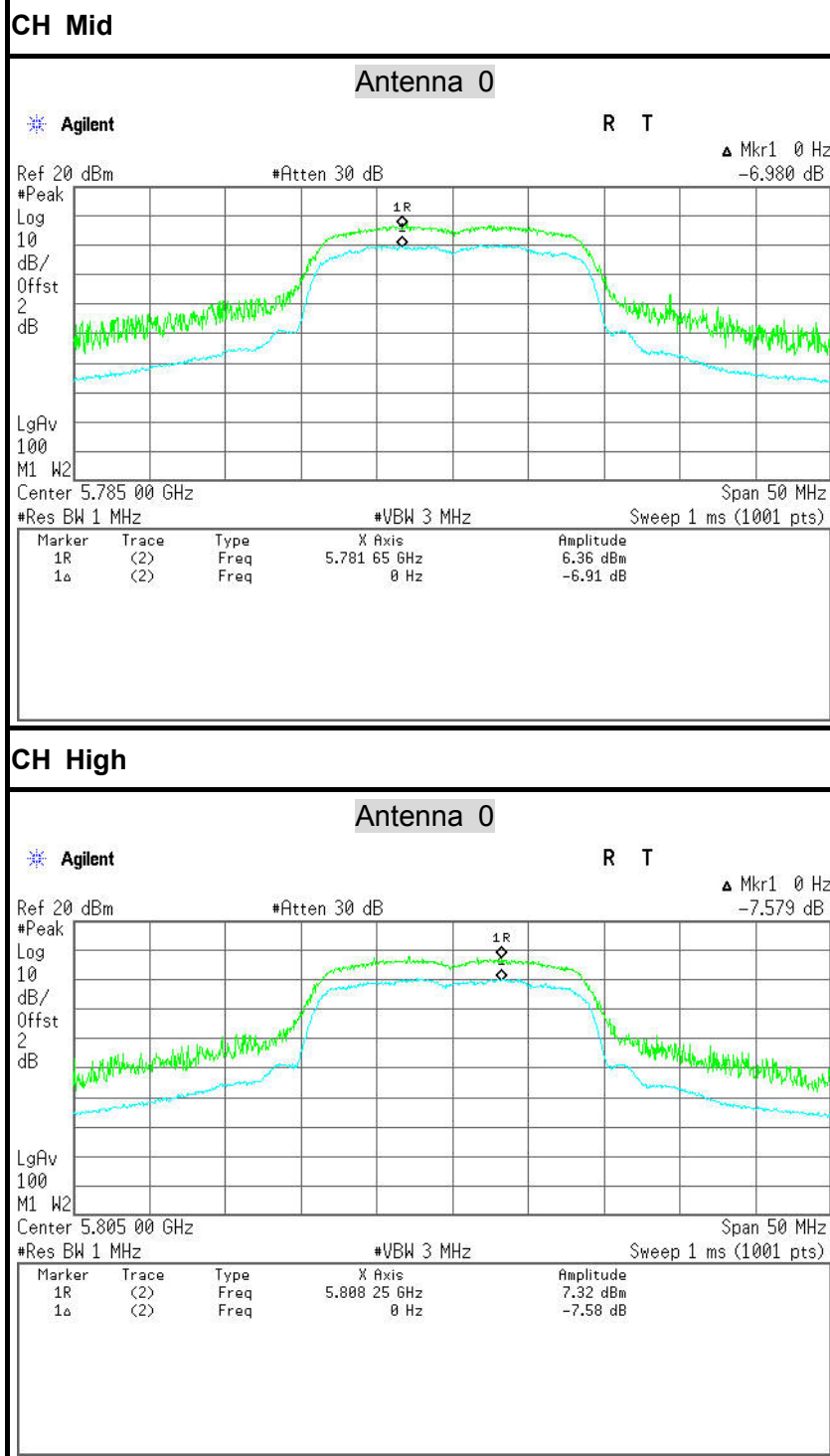
## CH High



## IEEE 802.11n HT 20 MHz mode / 5745 ~ 5805MHz

### CH Low

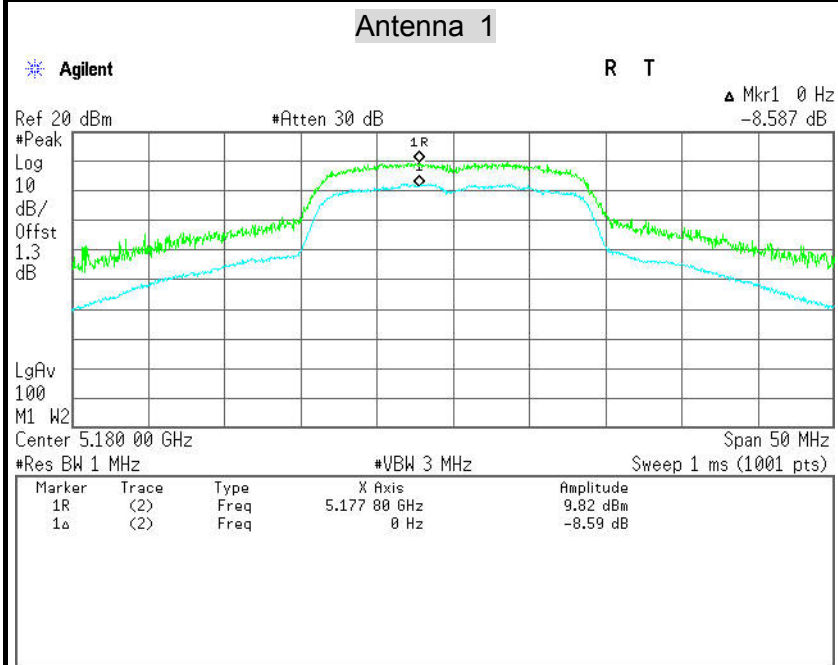




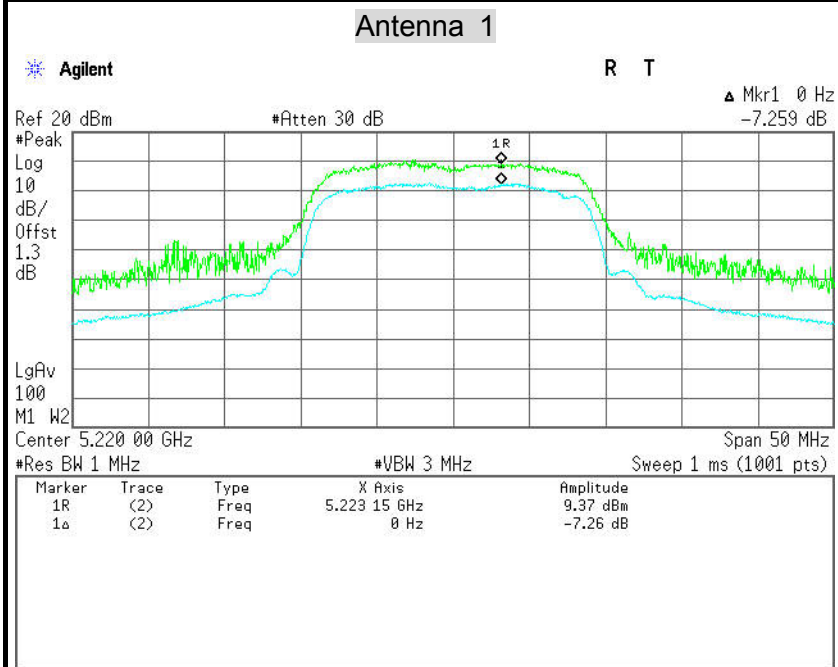


## IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz

### CH Low

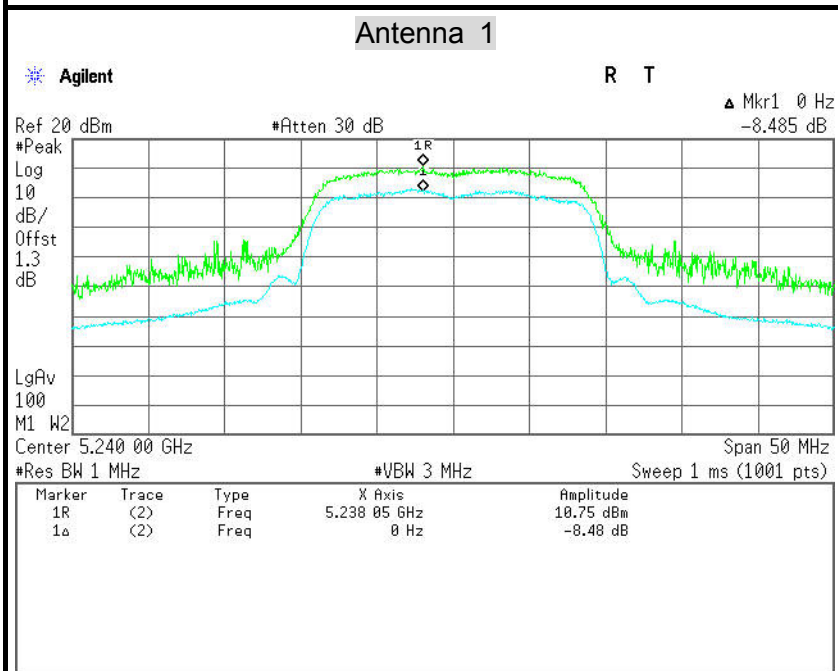


### CH Mid



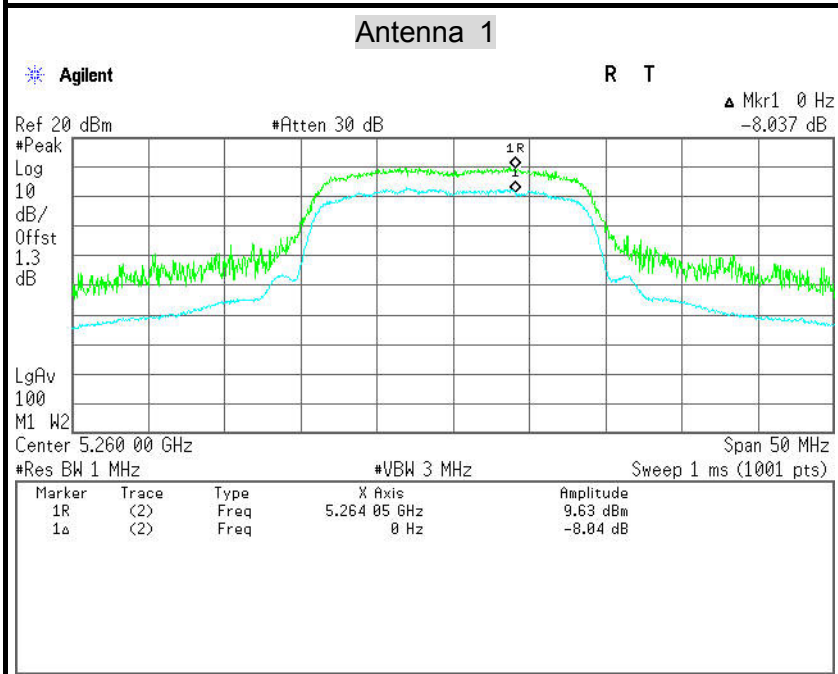


CH High



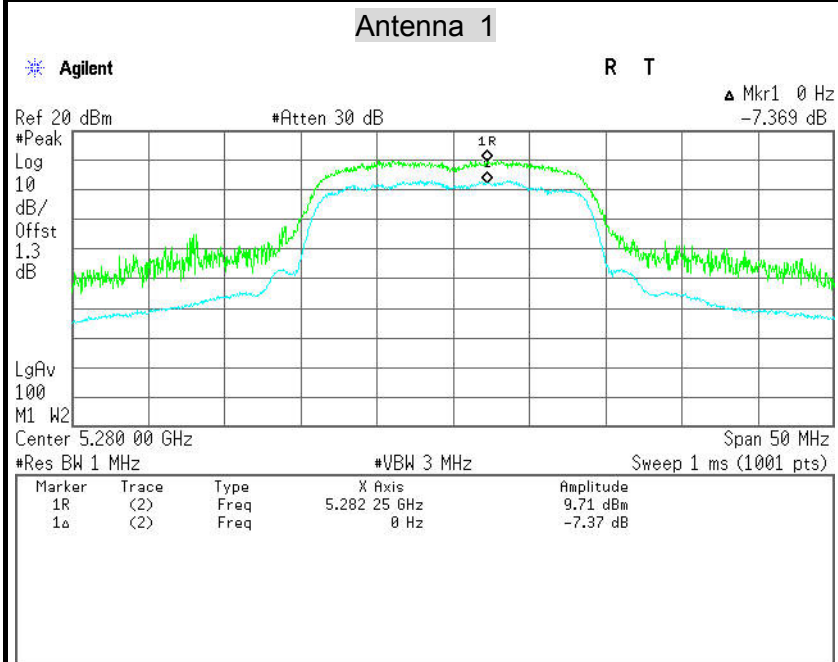
IEEE 802.11n HT 20 MHz mode / 5260 ~ 5320MHz

CH Low

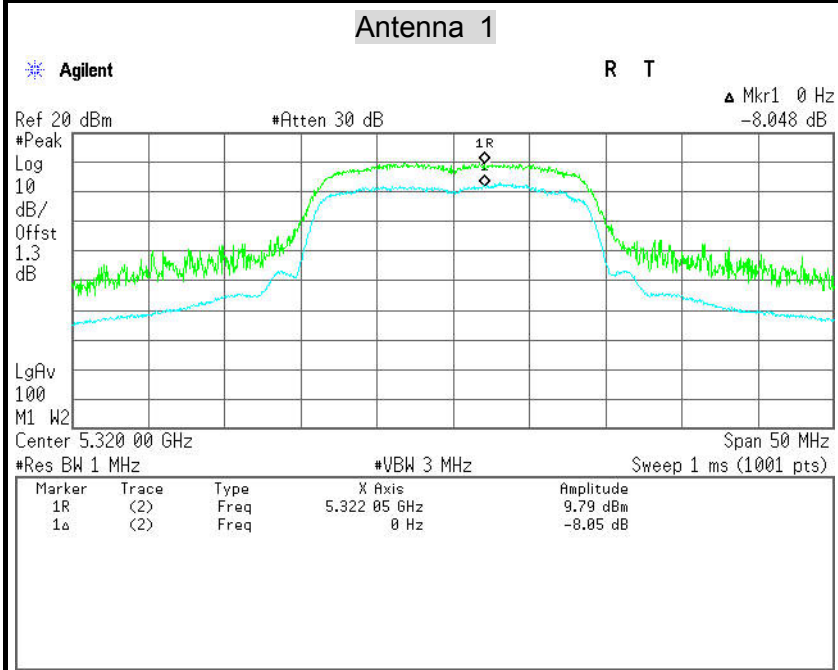




## CH Mid



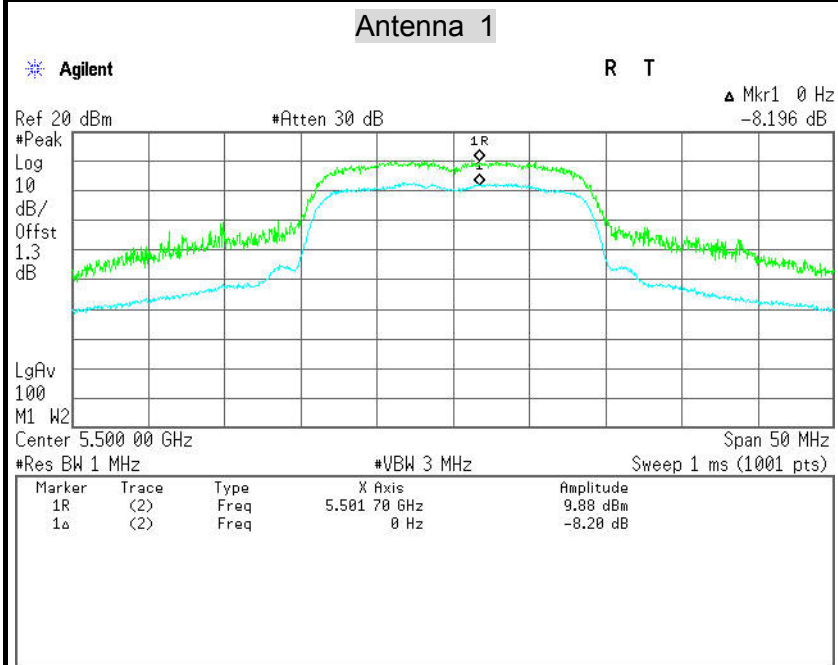
## CH High



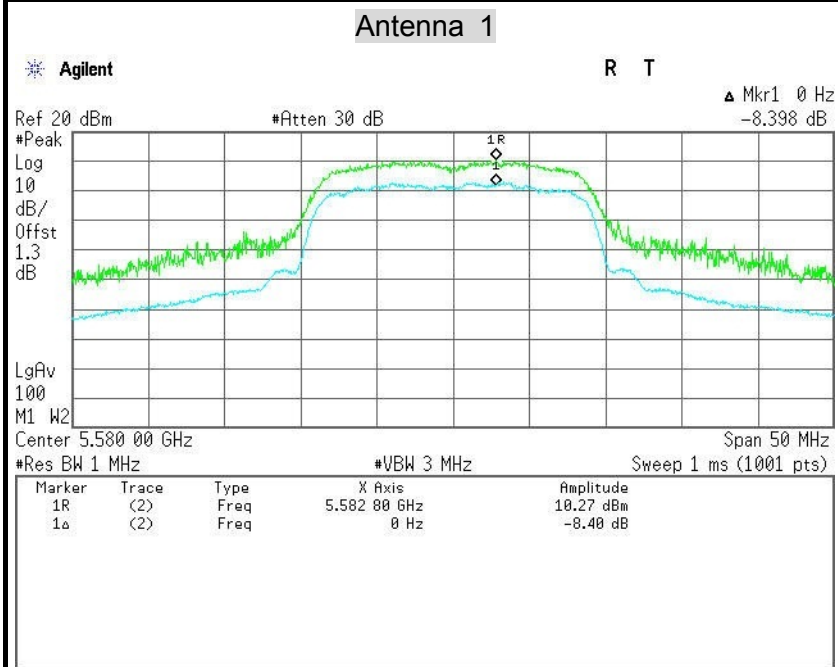


## IEEE 802.11n HT 20 MHz mode / 5500 ~ 5700MHz

### CH Low

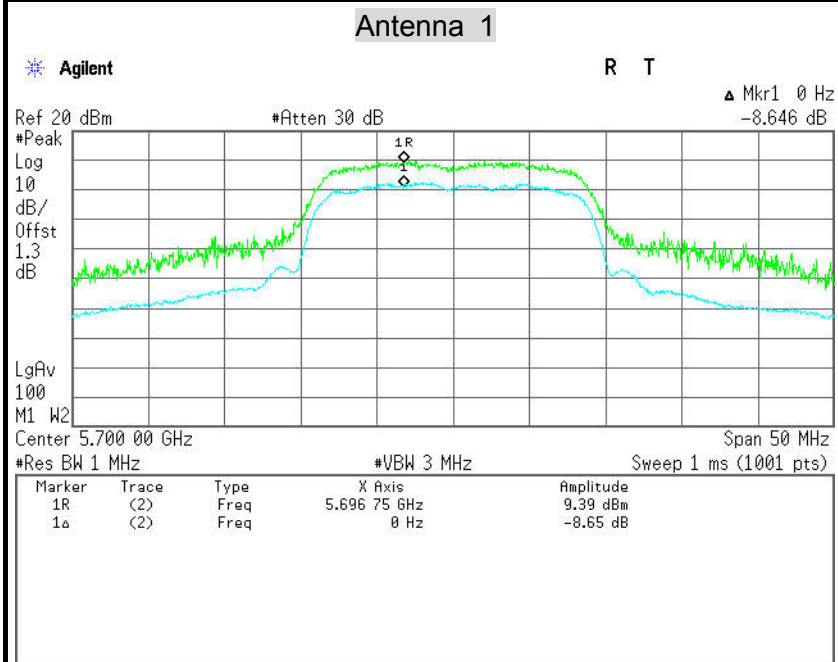


### CH Mid



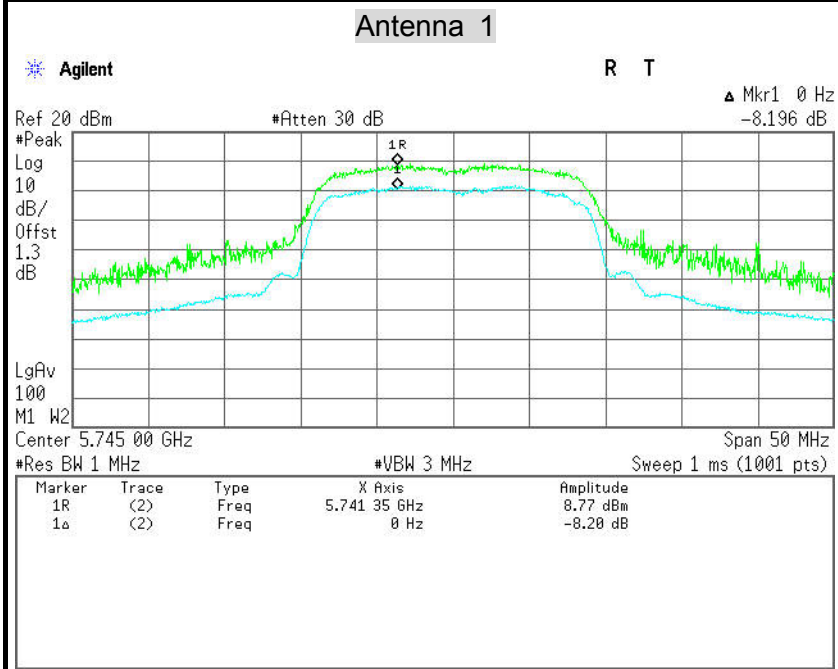


## CH High



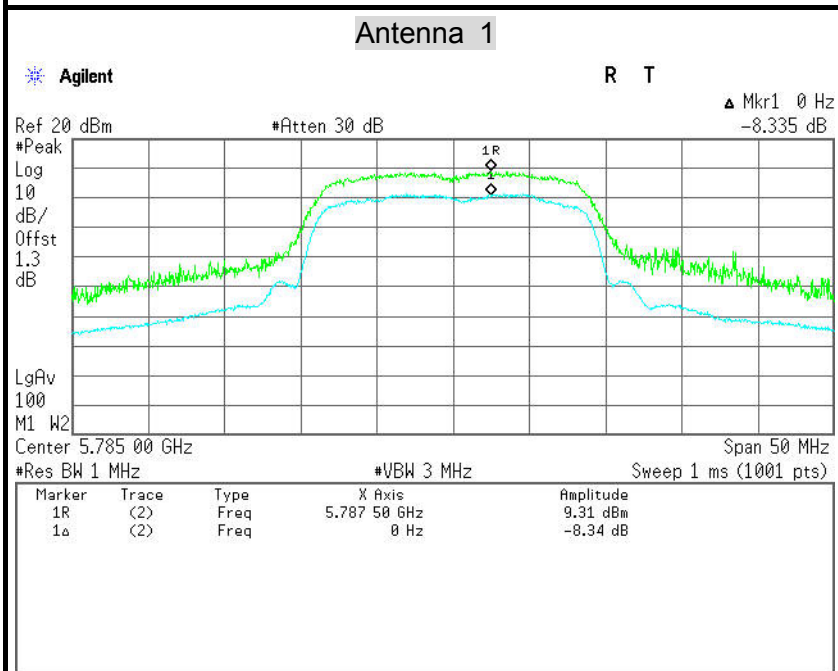
## IEEE 802.11n HT 20 MHz mode / 5745 ~ 5805MHz

## CH Low

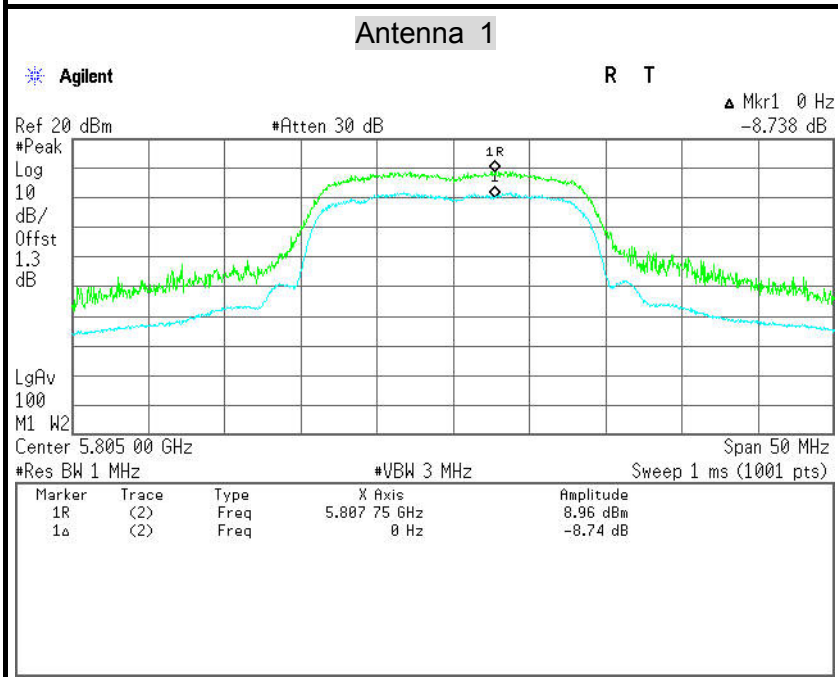




## CH Mid



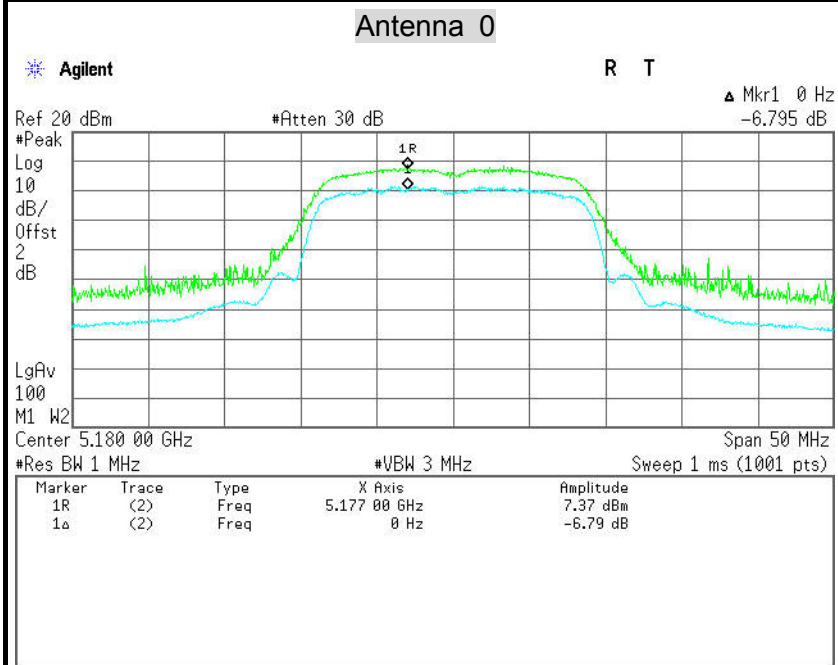
## CH High



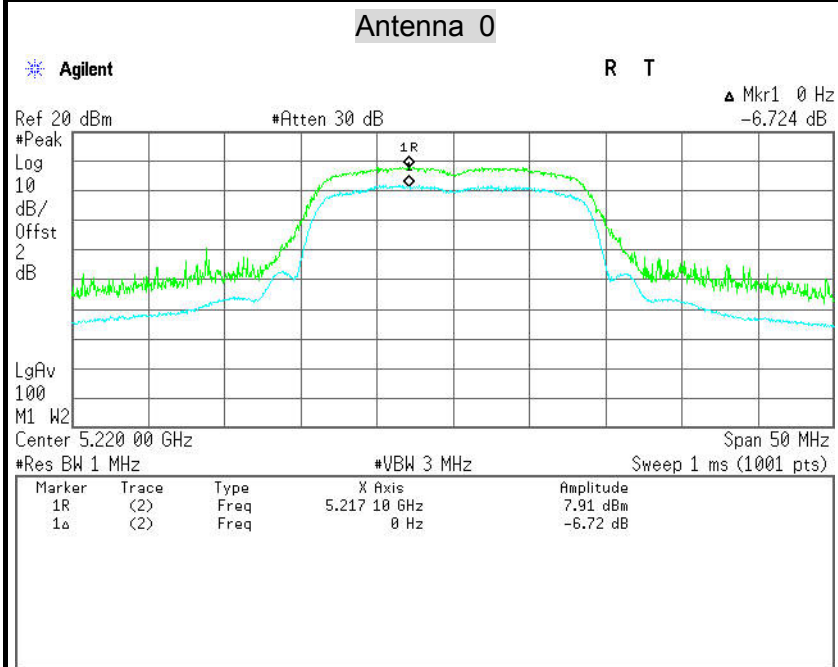


## IEEE 802.11n HT 20 MHz SISO mode / 5180 ~ 5240MHz

### CH Low

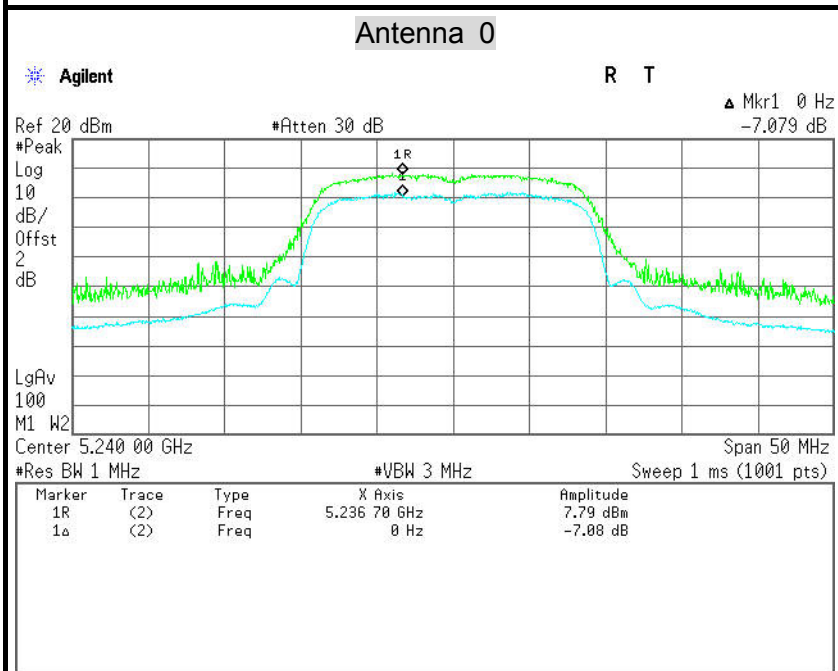


### CH Mid



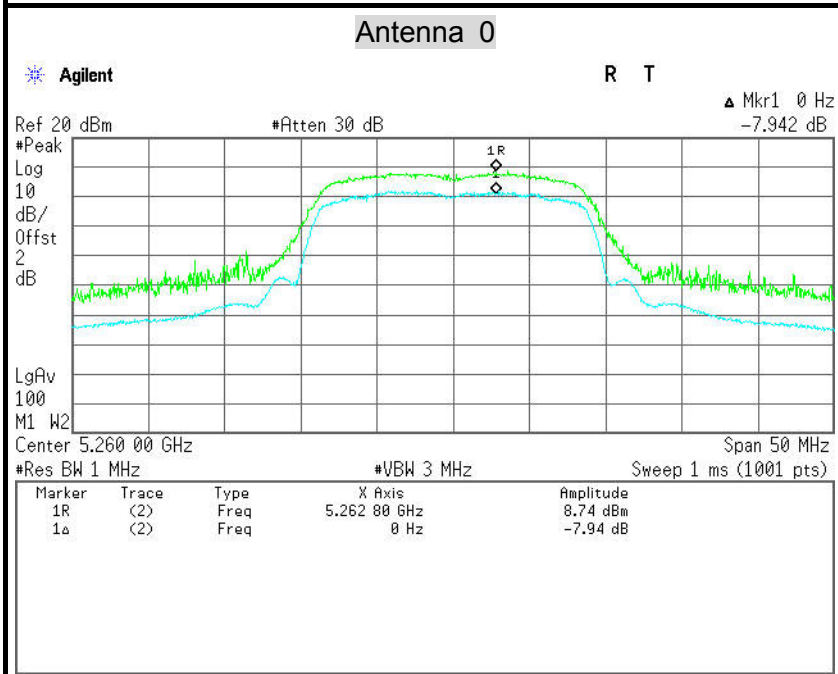


## CH High



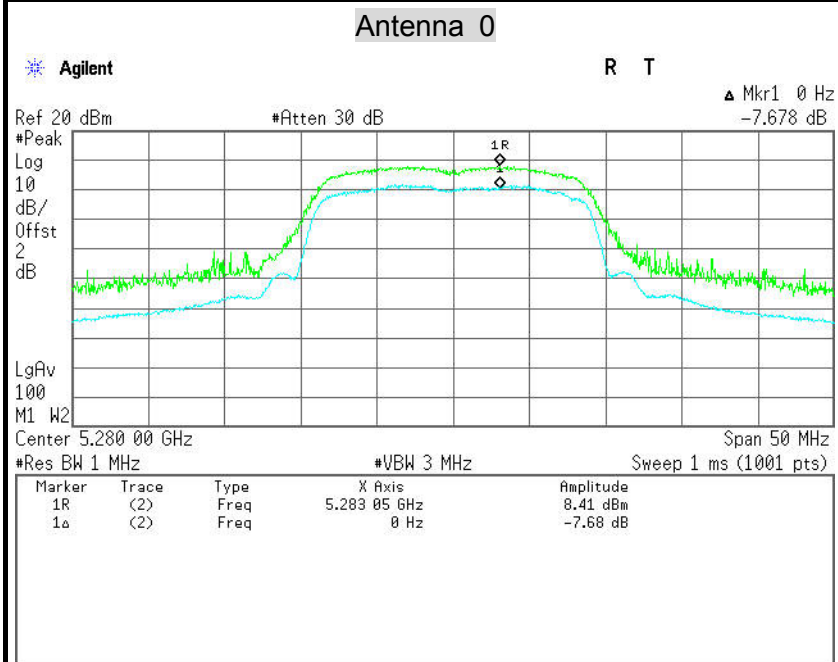
## IEEE 802.11n HT 20 MHz SISO mode / 5260 ~ 5320MHz

## CH Low

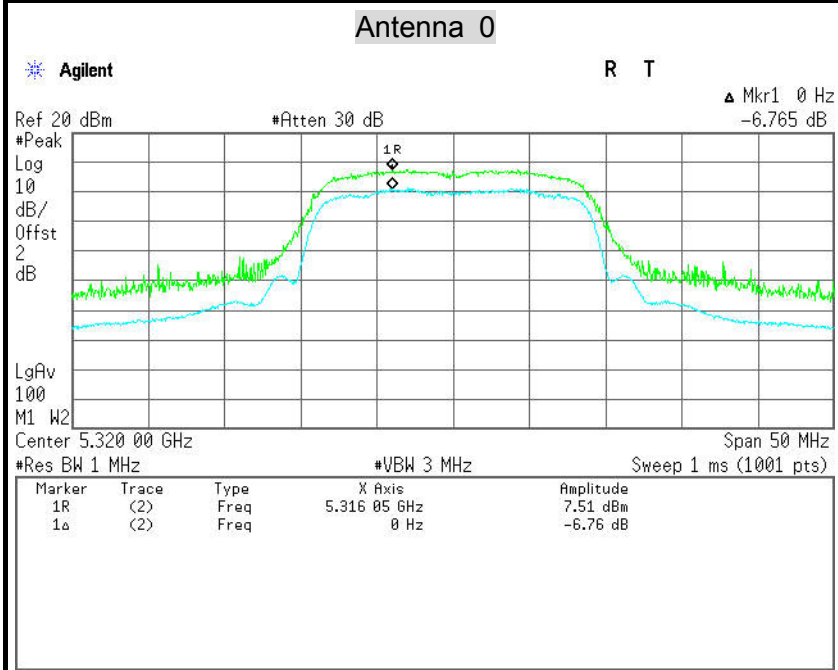




## CH Mid



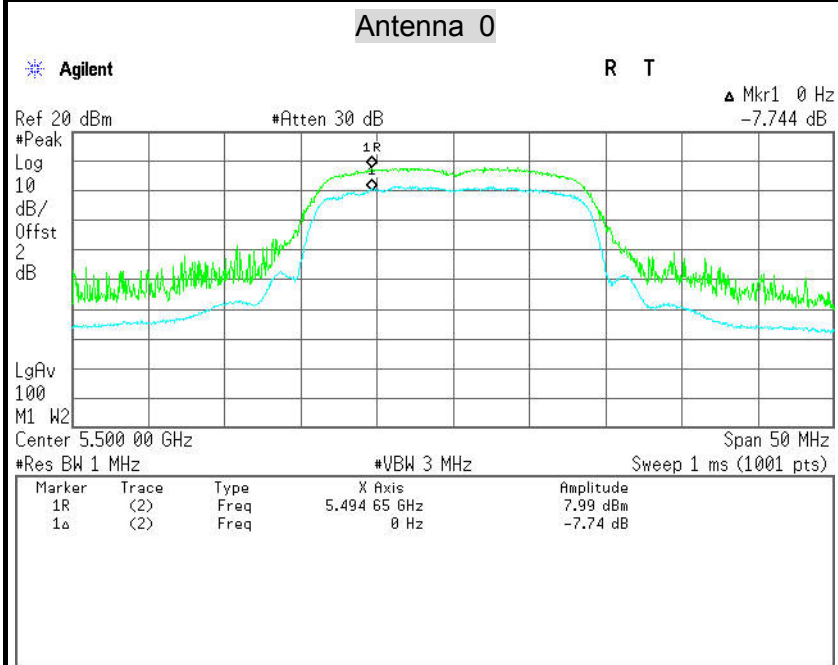
## CH High



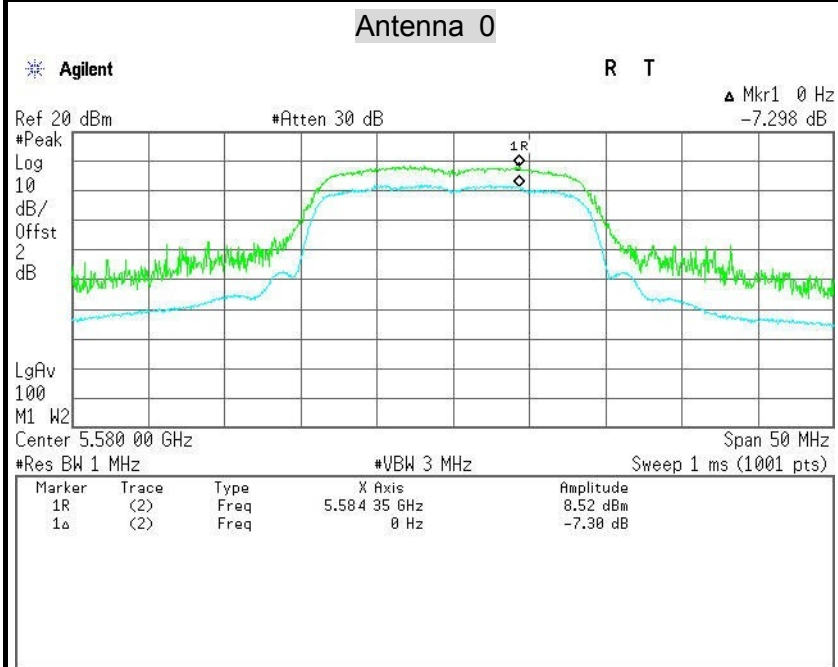


## IEEE 802.11n HT 20 MHz SISO mode / 5500 ~ 5700MHz

### CH Low

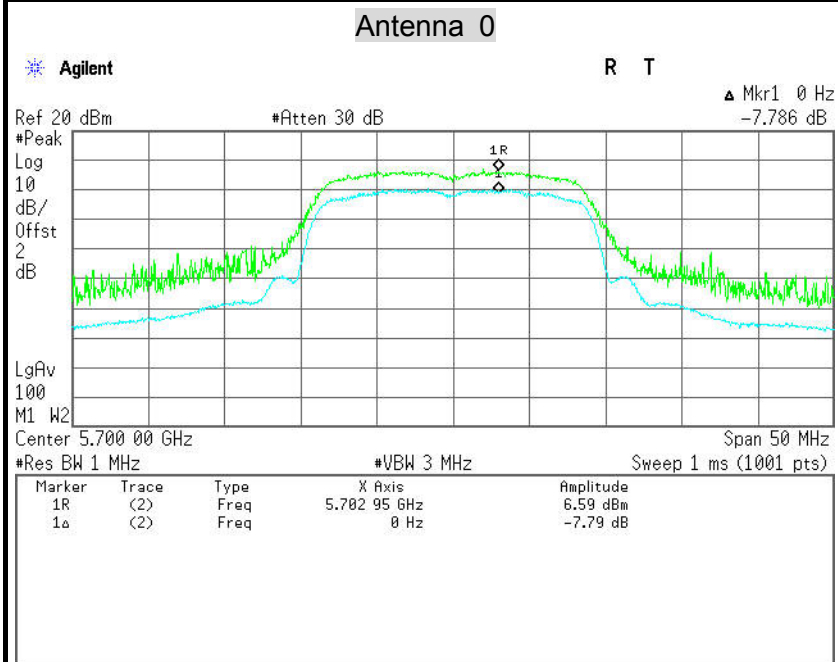


### CH Mid



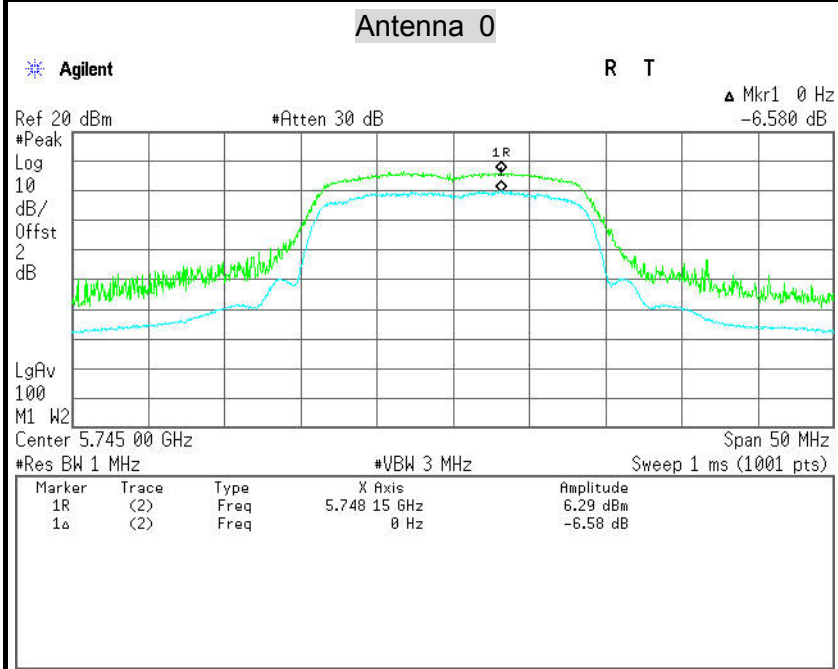


## CH High



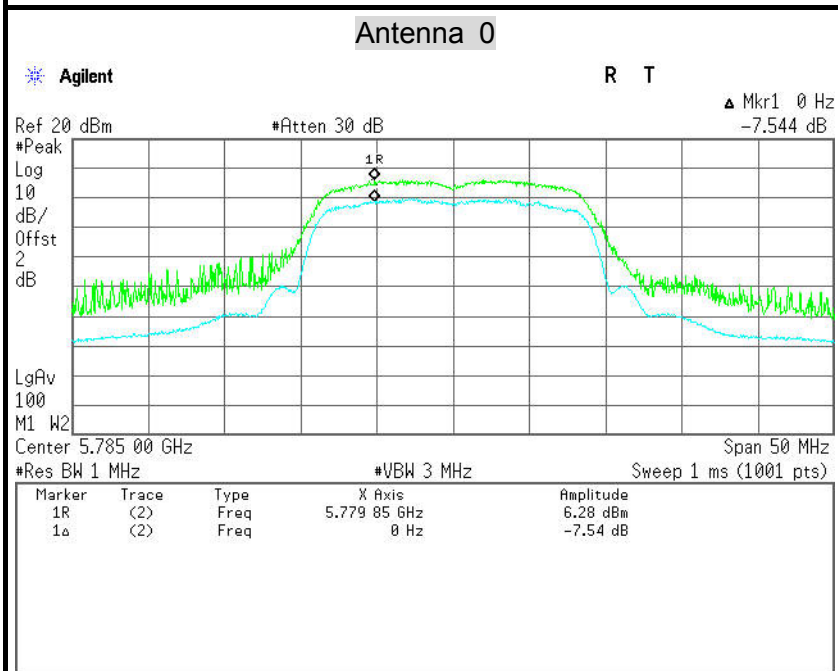
## IEEE 802.11n HT 20 MHz SISO mode / 5745 ~ 5805MHz

## CH Low





## CH Mid



## CH High

