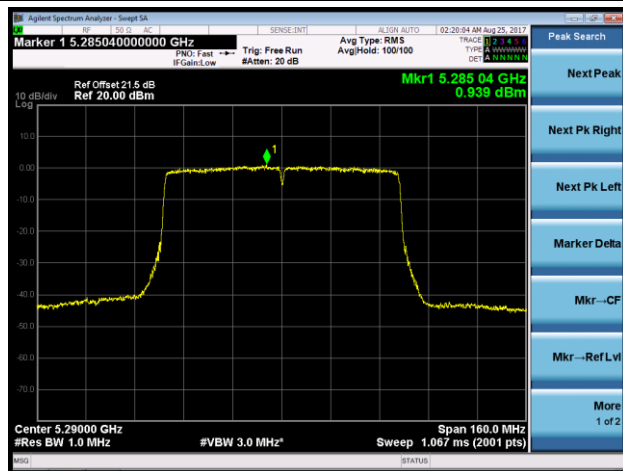
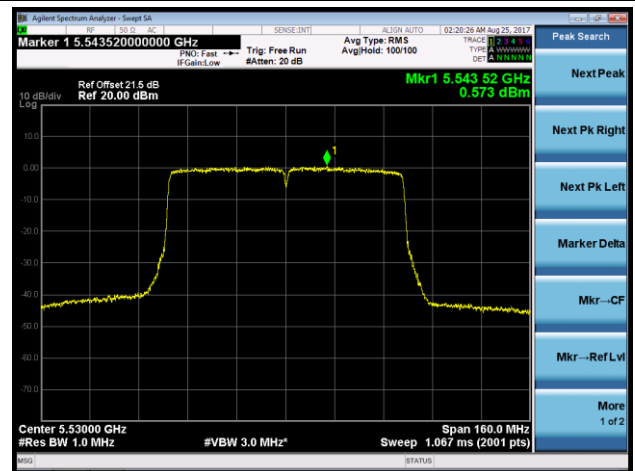


# 802.11ac-VHT80 Power Spectral Density - Ant 1 / Ant 1 + 2 (Beam-Forming Mode)

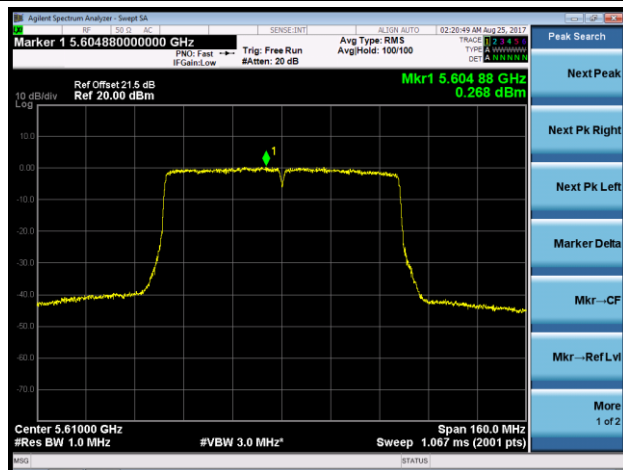
## Channel 58 (5290MHz)



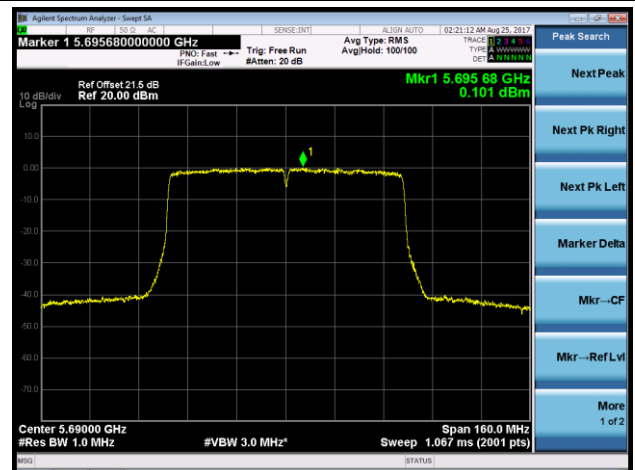
## Channel 106 (5530MHz)



## Channel 122 (5610MHz)

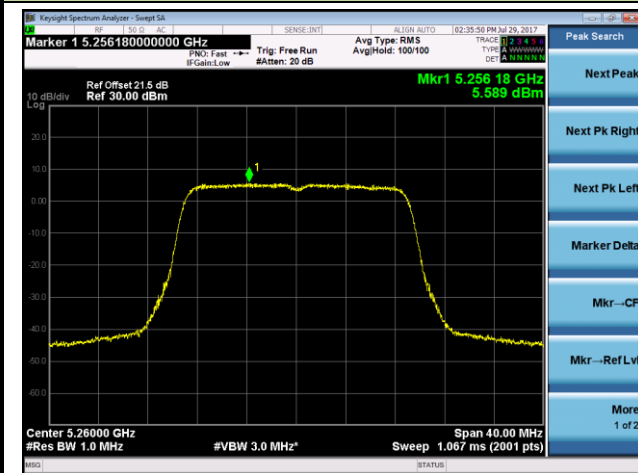


## Channel 138 (5690MHz)

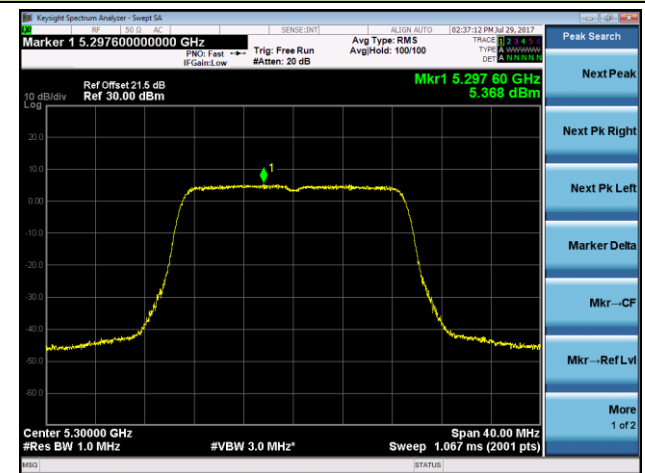


# 802.11n-HT20 Power Spectral Density - Ant 2 / Ant 1 + 2 (Beam-Forming Mode)

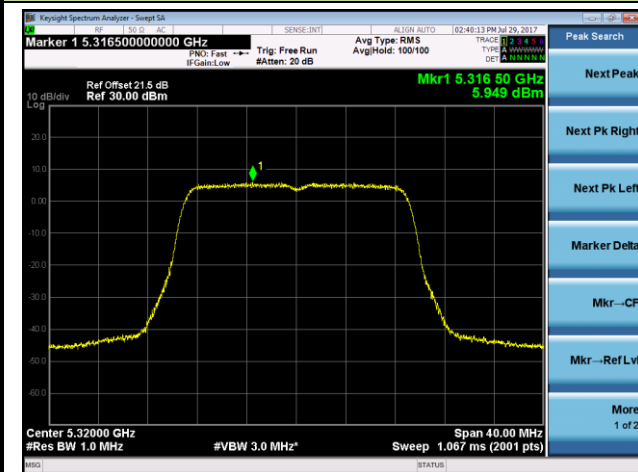
## Channel 52 (5260MHz)



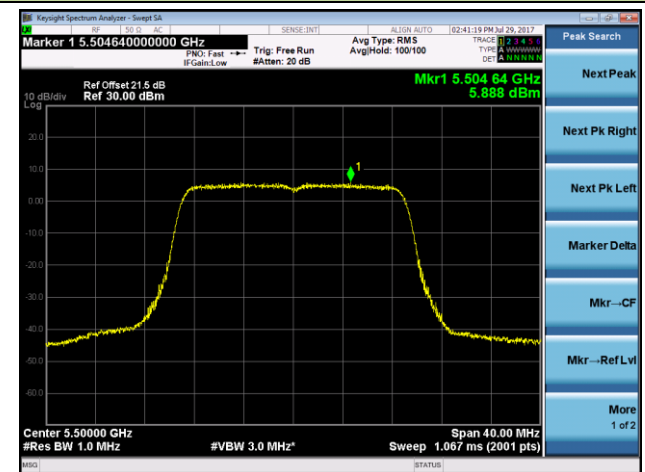
## Channel 60 (5300MHz)



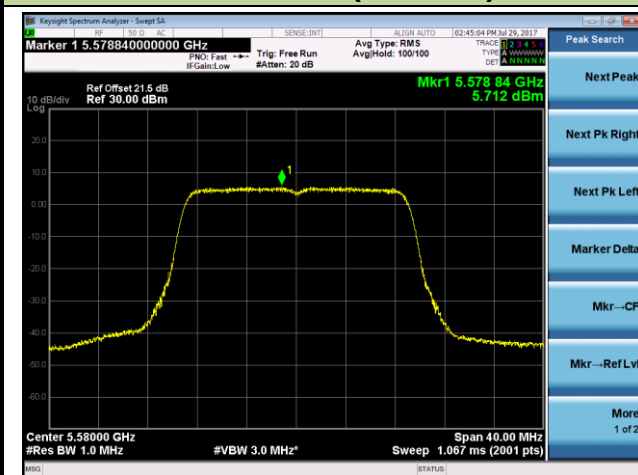
## Channel 64 (5320MHz)



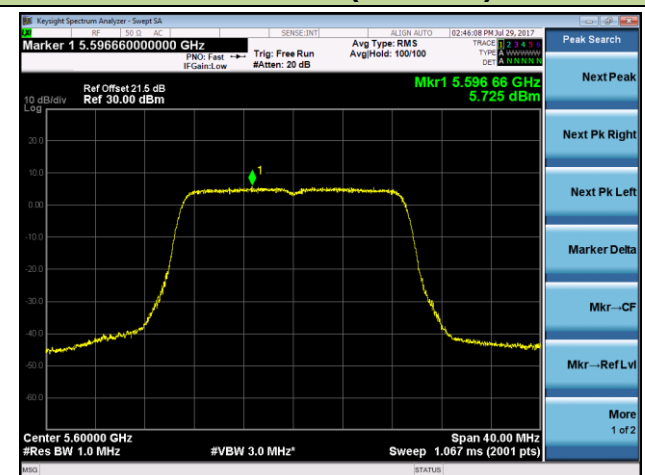
## Channel 100 (5500MHz)

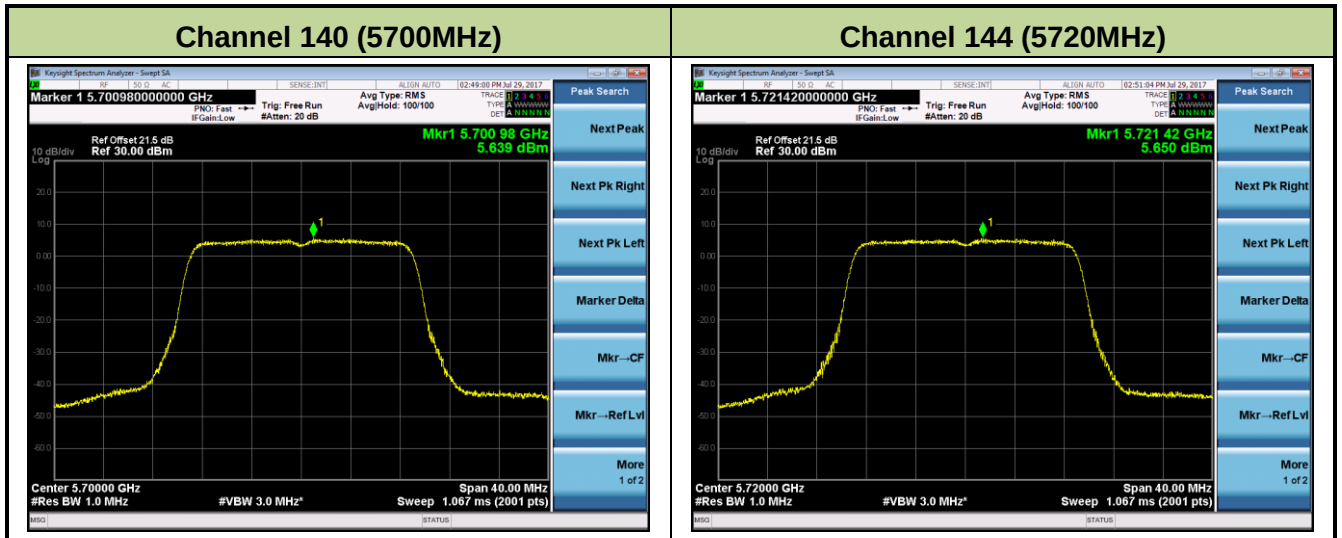


## Channel 116 (5580MHz)



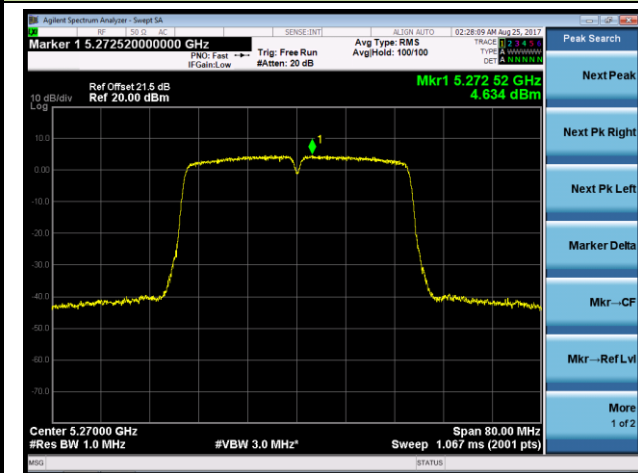
## Channel 120 (5600MHz)



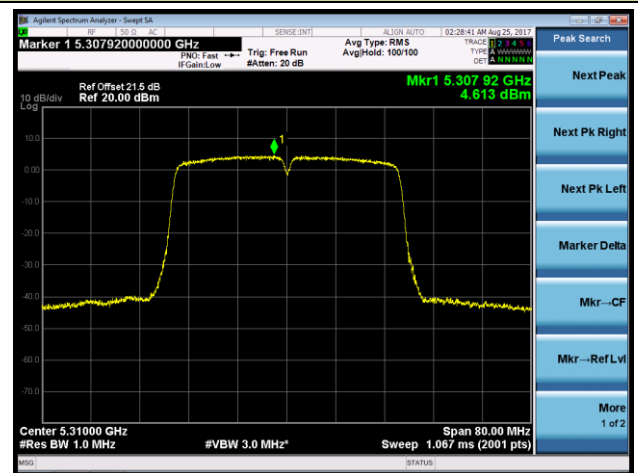


# 802.11n-HT40 Power Spectral Density - Ant 2 / Ant 1 + 2 (Beam-Forming Mode)

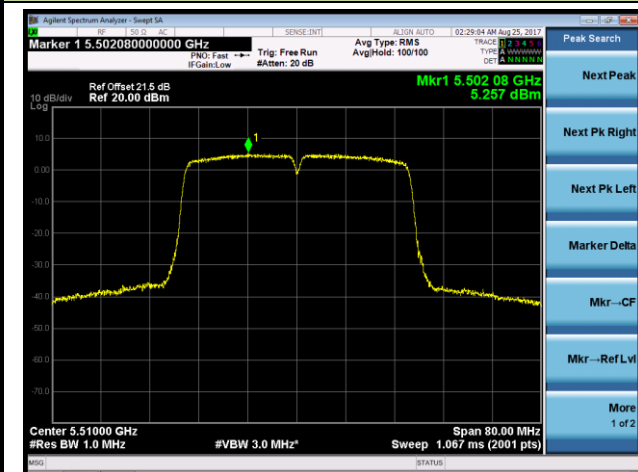
## Channel 54 (5270MHz)



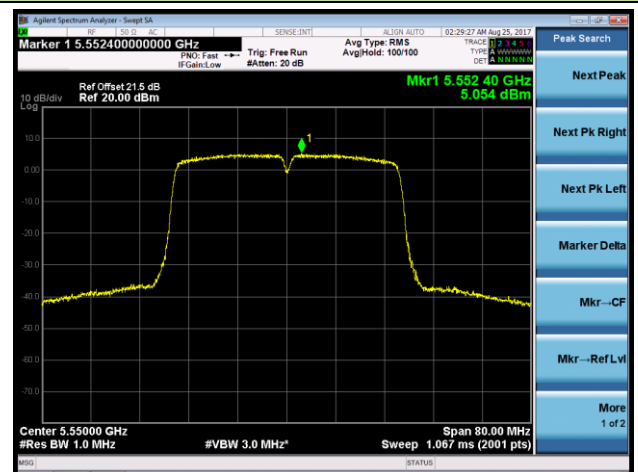
## Channel 62 (5310MHz)



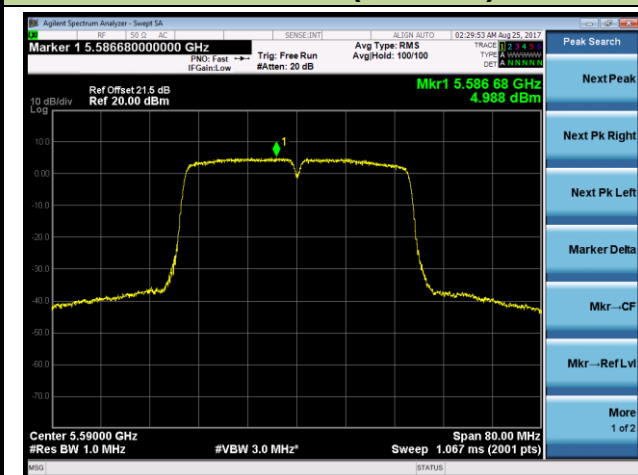
## Channel 102 (5510MHz)



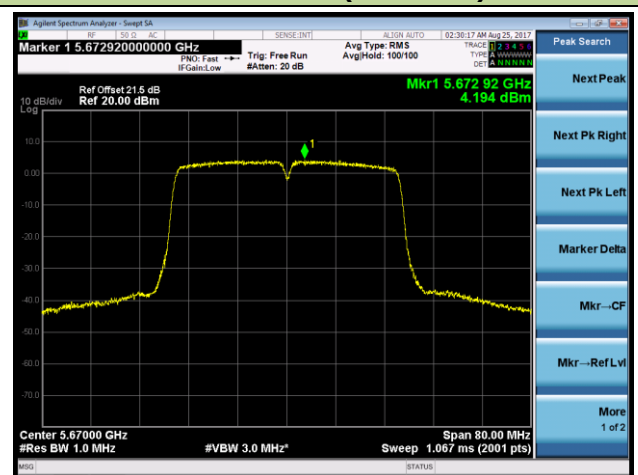
## Channel 110 (5550MHz)

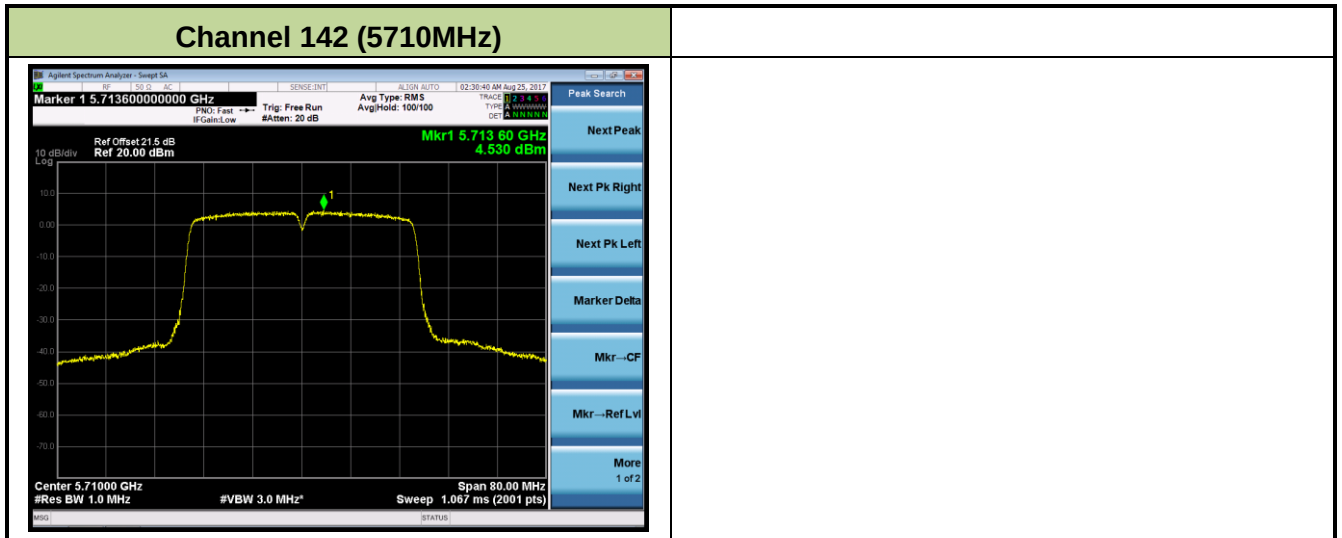


## Channel 118 (5590MHz)



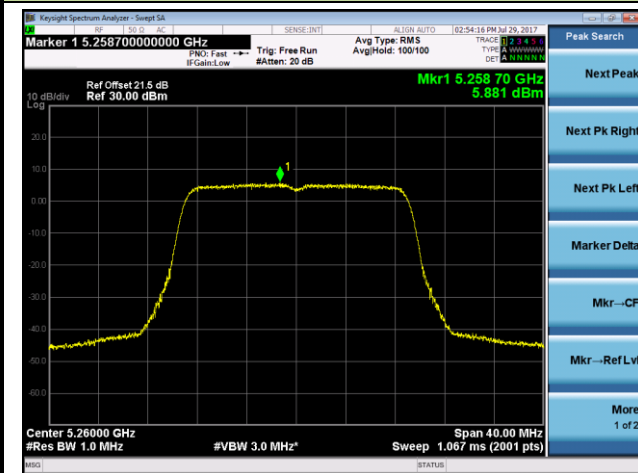
## Channel 134 (5670MHz)



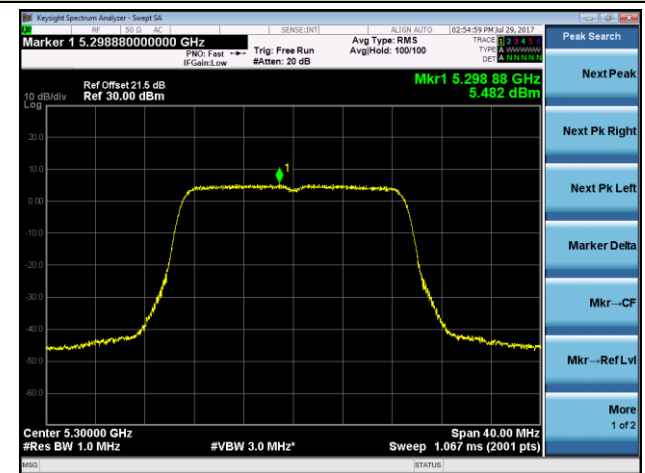


# 802.11ac-VHT20 Power Spectral Density - Ant 2 / Ant 1 + 2 (Beam-Forming Mode)

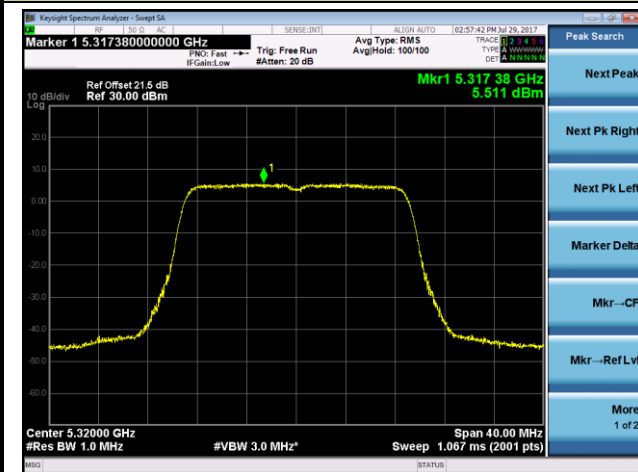
## Channel 52 (5260MHz)



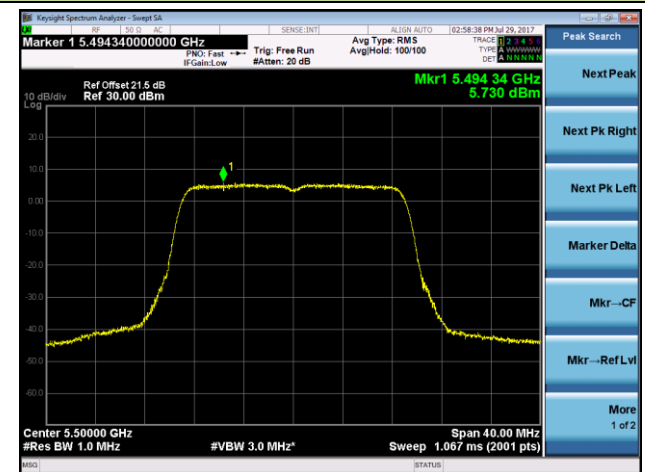
## Channel 60 (5300MHz)



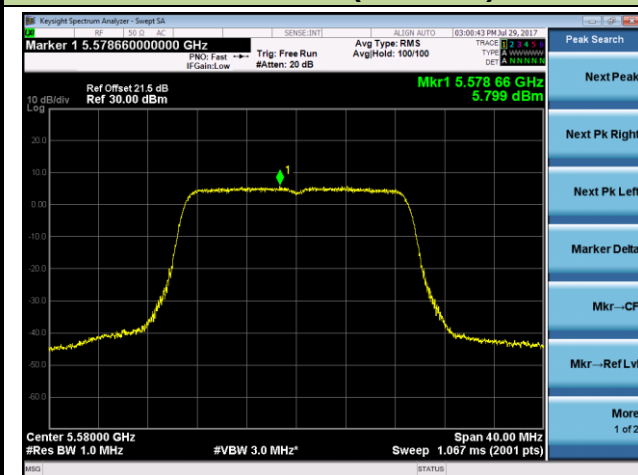
## Channel 64 (5320MHz)



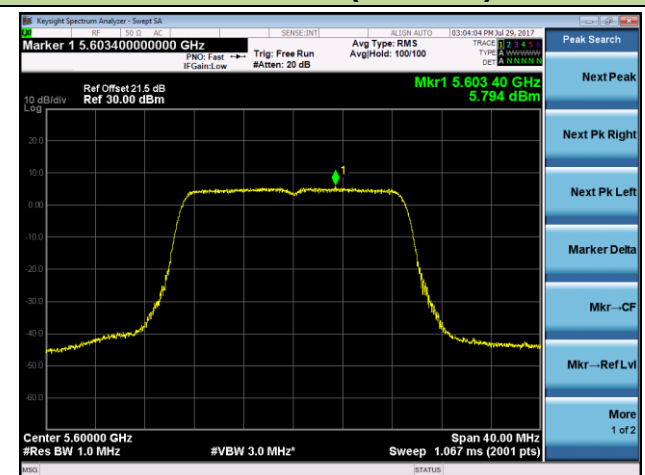
## Channel 100 (5500MHz)

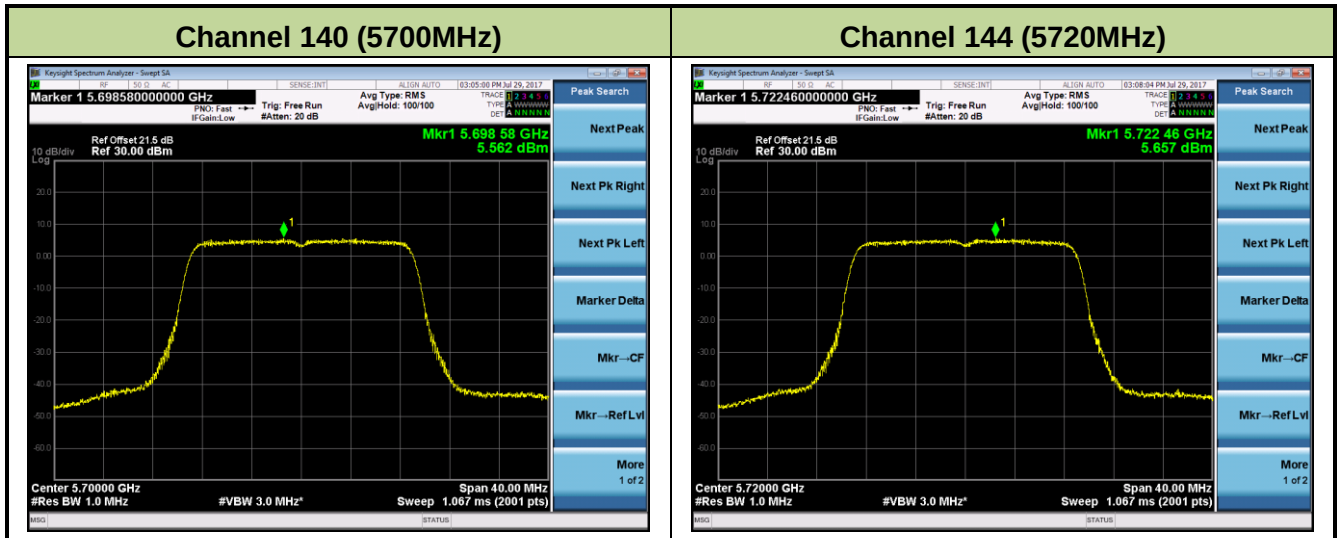


## Channel 116 (5580MHz)



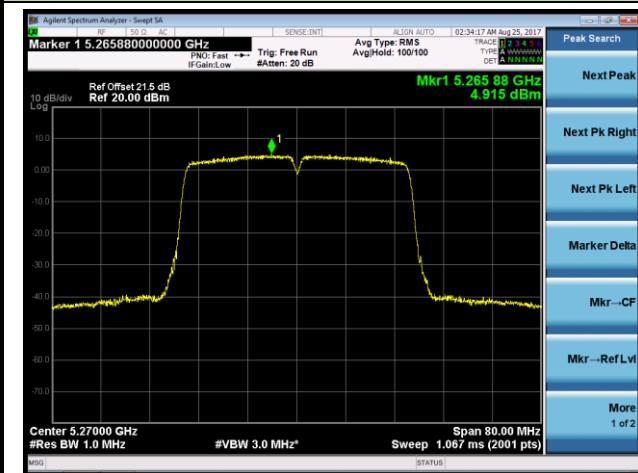
## Channel 120 (5600MHz)



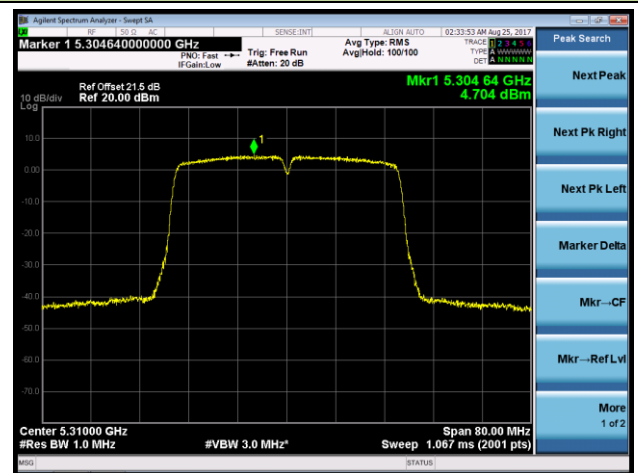


# 802.11ac-VHT40 Power Spectral Density - Ant 2 / Ant 1 + 2 (Beam-Forming Mode)

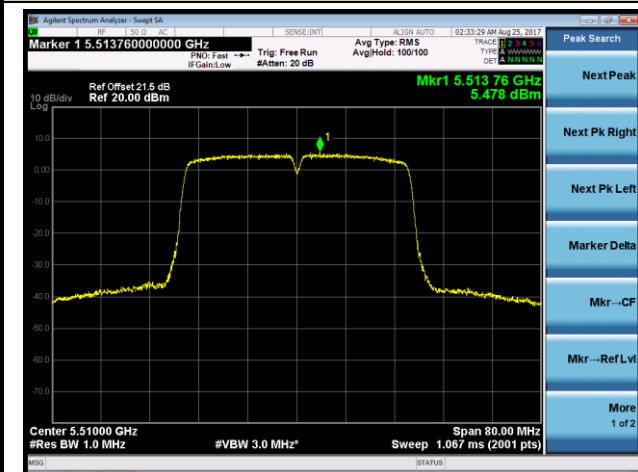
## Channel 54 (5270MHz)



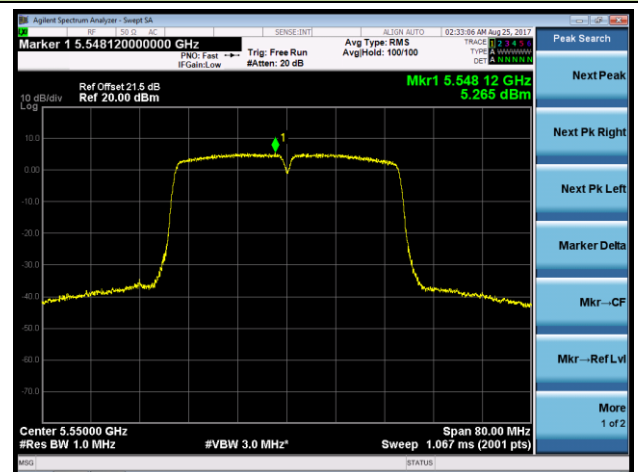
## Channel 62 (5310MHz)



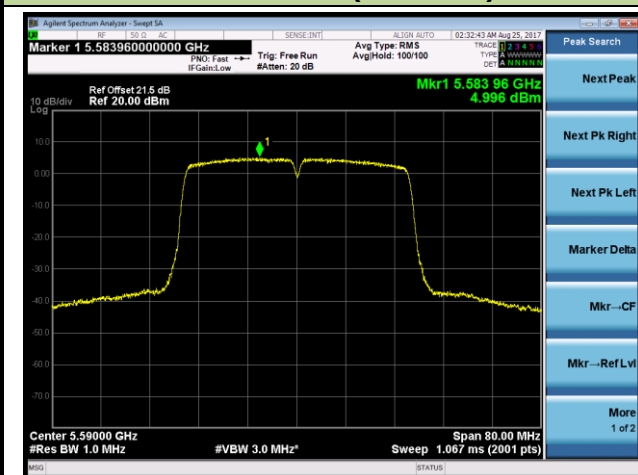
## Channel 102 (5510MHz)



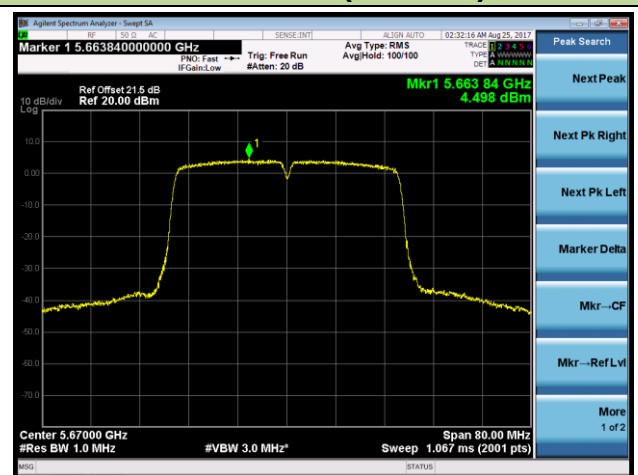
## Channel 110 (5550MHz)

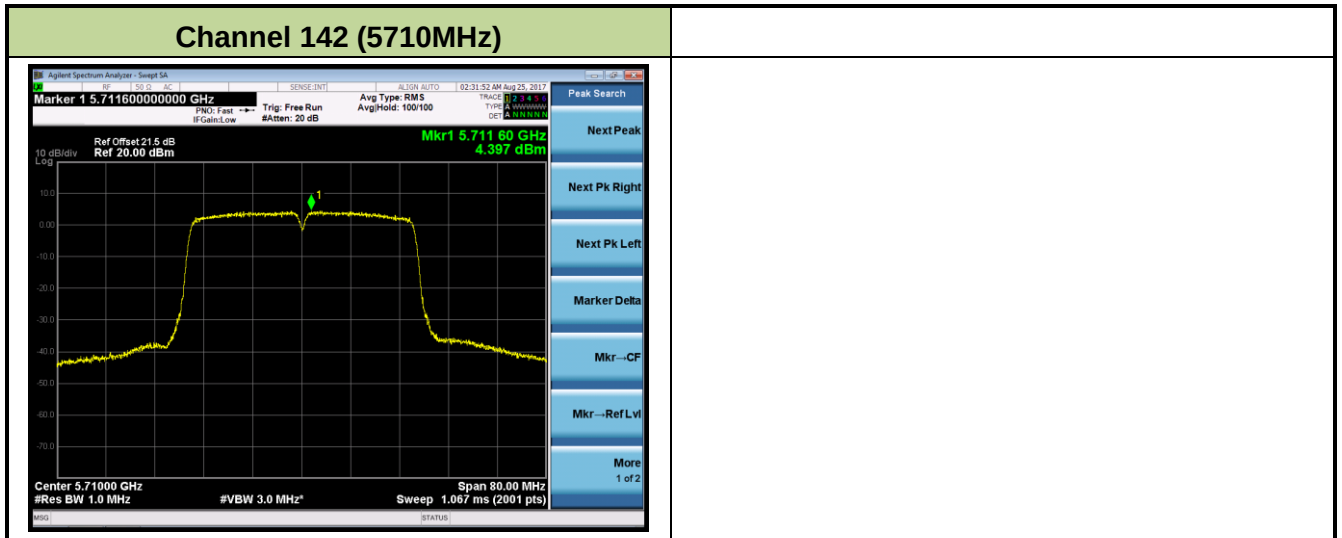


## Channel 118 (5590MHz)



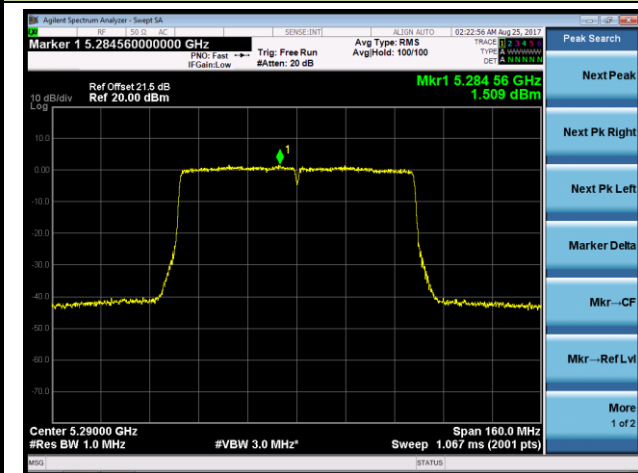
## Channel 134 (5670MHz)



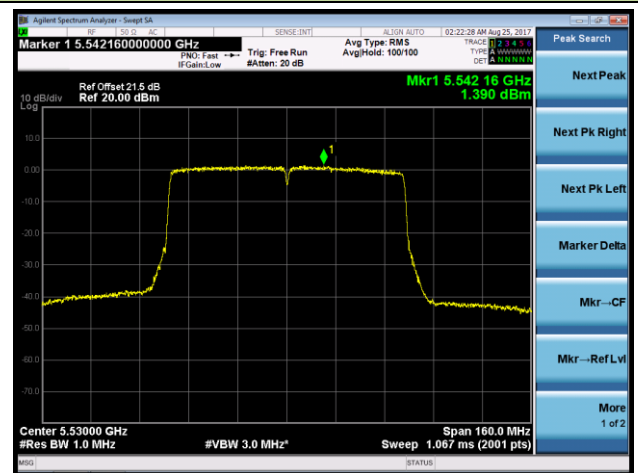


## 802.11ac-VHT80 Power Spectral Density - Ant 2 / Ant 1 + 2 (Beam-Forming Mode)

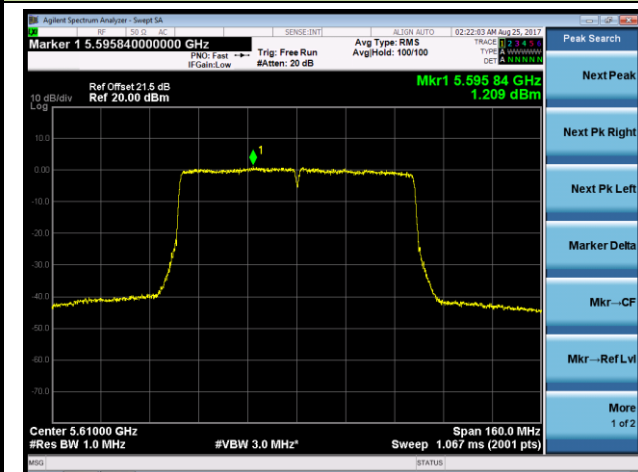
### Channel 58 (5290MHz)



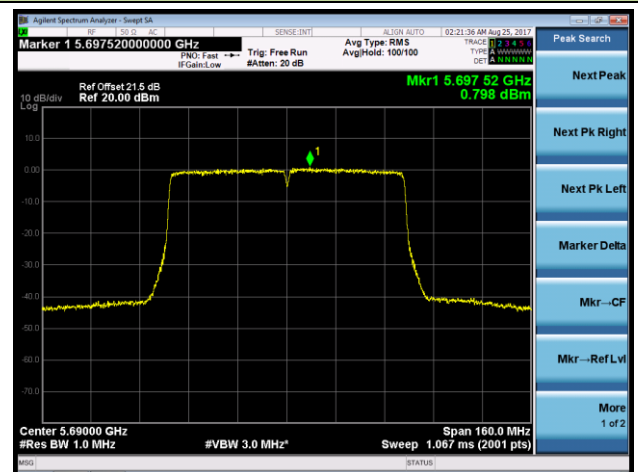
### Channel 106 (5530MHz)



### Channel 122 (5610MHz)



### Channel 138 (5690MHz)



|               |                                                          |                   |            |
|---------------|----------------------------------------------------------|-------------------|------------|
| Product       | AC220 Wi-Fi AP OD small omni antenna US                  | Temperature       | 22°C       |
| Test Engineer | Lewis Huang                                              | Relative Humidity | 54%        |
| Test Site     | TR3                                                      | Test Date         | 2017/08/27 |
| Test Item     | Power Spectral Dencity (For FCC bands UNII-2A & UNII-2C) |                   |            |

| Test Mode | Data Rate/<br>MCS | Channel<br>No. | Freq.<br>(MHz) | PSD (dBm/<br>MHz) | Duty Cycle<br>(%) | Final PSD<br>(dBm/<br>MHz) | PSD Limit<br>(dBm/<br>MHz) | Result |
|-----------|-------------------|----------------|----------------|-------------------|-------------------|----------------------------|----------------------------|--------|
| Ant 1     |                   |                |                |                   |                   |                            |                            |        |
| 11a       | 6Mbps             | 52             | 5260           | 10.07             | 95.80             | 10.26                      | ≤ 10.50                    | Pass   |
| 11a       | 6Mbps             | 60             | 5300           | 9.81              | 95.80             | 10.00                      | ≤ 10.50                    | Pass   |
| 11a       | 6Mbps             | 64             | 5320           | 9.81              | 95.80             | 10.00                      | ≤ 10.50                    | Pass   |
| 11a       | 6Mbps             | 100            | 5500           | 9.87              | 95.80             | 10.06                      | ≤ 10.50                    | Pass   |
| 11a       | 6Mbps             | 116            | 5580           | 10.16             | 95.80             | 10.35                      | ≤ 10.50                    | Pass   |
| 11a       | 6Mbps             | 120            | 5600           | 9.68              | 95.80             | 9.87                       | ≤ 10.50                    | Pass   |
| 11a       | 6Mbps             | 140            | 5700           | 9.84              | 95.80             | 10.03                      | ≤ 10.50                    | Pass   |
| 11a       | 6Mbps             | 144            | 5720           | 9.88              | 95.80             | 10.07                      | ≤ 10.50                    | Pass   |
| 11n-HT20  | MCS0              | 52             | 5260           | 9.85              | 98.07             | 9.85                       | ≤ 10.50                    | Pass   |
| 11n-HT20  | MCS0              | 60             | 5300           | 10.05             | 98.07             | 10.05                      | ≤ 10.50                    | Pass   |
| 11n-HT20  | MCS0              | 64             | 5320           | 9.75              | 98.07             | 9.75                       | ≤ 10.50                    | Pass   |
| 11n-HT20  | MCS0              | 100            | 5500           | 9.84              | 98.07             | 9.84                       | ≤ 10.50                    | Pass   |
| 11n-HT20  | MCS0              | 116            | 5580           | 10.04             | 98.07             | 10.04                      | ≤ 10.50                    | Pass   |
| 11n-HT20  | MCS0              | 120            | 5600           | 10.02             | 98.07             | 10.02                      | ≤ 10.50                    | Pass   |
| 11n-HT20  | MCS0              | 140            | 5700           | 9.85              | 98.07             | 9.85                       | ≤ 10.50                    | Pass   |
| 11n-HT20  | MCS0              | 144            | 5720           | 10.08             | 98.07             | 10.08                      | ≤ 10.50                    | Pass   |

| Test Mode  | Data Rate/<br>MCS | Channel<br>No. | Freq.<br>(MHz) | PSD (dBm/<br>MHz) | Duty Cycle<br>(%) | Final PSD<br>(dBm/<br>MHz) | PSD Limit<br>(dBm/<br>MHz) | Result |
|------------|-------------------|----------------|----------------|-------------------|-------------------|----------------------------|----------------------------|--------|
| Ant 1      |                   |                |                |                   |                   |                            |                            |        |
| 11n-HT40   | MCS0              | 54             | 5270           | 7.68              | 96.61             | 7.83                       | ≤ 10.50                    | Pass   |
| 11n-HT40   | MCS0              | 62             | 5310           | 5.54              | 96.61             | 5.69                       | ≤ 10.50                    | Pass   |
| 11n-HT40   | MCS0              | 102            | 5510           | 5.22              | 96.61             | 5.37                       | ≤ 10.50                    | Pass   |
| 11n-HT40   | MCS0              | 110            | 5550           | 7.66              | 96.61             | 7.81                       | ≤ 10.50                    | Pass   |
| 11n-HT40   | MCS0              | 118            | 5590           | 8.10              | 96.61             | 8.25                       | ≤ 10.50                    | Pass   |
| 11n-HT40   | MCS0              | 134            | 5670           | 8.27              | 96.61             | 8.42                       | ≤ 10.50                    | Pass   |
| 11n-HT40   | MCS0              | 142            | 5710           | 7.97              | 96.61             | 8.12                       | ≤ 10.50                    | Pass   |
| 11ac-VHT20 | MCS0              | 52             | 5260           | 9.83              | 98.21             | 9.83                       | ≤ 10.50                    | Pass   |
| 11ac-VHT20 | MCS0              | 60             | 5300           | 9.80              | 98.21             | 9.80                       | ≤ 10.50                    | Pass   |
| 11ac-VHT20 | MCS0              | 64             | 5320           | 9.99              | 98.21             | 9.99                       | ≤ 10.50                    | Pass   |
| 11ac-VHT20 | MCS0              | 100            | 5500           | 9.80              | 98.21             | 9.80                       | ≤ 10.50                    | Pass   |
| 11ac-VHT20 | MCS0              | 116            | 5580           | 10.12             | 98.21             | 10.12                      | ≤ 10.50                    | Pass   |
| 11ac-VHT20 | MCS0              | 120            | 5600           | 10.09             | 98.21             | 10.09                      | ≤ 10.50                    | Pass   |
| 11ac-VHT20 | MCS0              | 140            | 5700           | 10.09             | 98.21             | 10.09                      | ≤ 10.50                    | Pass   |
| 11ac-VHT20 | MCS0              | 144            | 5720           | 9.85              | 98.21             | 9.85                       | ≤ 10.50                    | Pass   |
| 11ac-VHT40 | MCS0              | 54             | 5270           | 8.01              | 96.43             | 8.17                       | ≤ 10.50                    | Pass   |
| 11ac-VHT40 | MCS0              | 62             | 5310           | 5.60              | 96.43             | 5.76                       | ≤ 10.50                    | Pass   |
| 11ac-VHT40 | MCS0              | 102            | 5510           | 4.87              | 96.43             | 5.03                       | ≤ 10.50                    | Pass   |
| 11ac-VHT40 | MCS0              | 110            | 5550           | 7.77              | 96.43             | 7.93                       | ≤ 10.50                    | Pass   |
| 11ac-VHT40 | MCS0              | 118            | 5590           | 8.01              | 96.43             | 8.17                       | ≤ 10.50                    | Pass   |
| 11ac-VHT40 | MCS0              | 134            | 5670           | 8.12              | 96.43             | 8.28                       | ≤ 10.50                    | Pass   |
| 11ac-VHT40 | MCS0              | 142            | 5710           | 8.03              | 96.43             | 8.19                       | ≤ 10.50                    | Pass   |
| 11ac-VHT80 | MCS0              | 58             | 5290           | 2.09              | 91.40             | 2.48                       | ≤ 10.50                    | Pass   |
| 11ac-VHT80 | MCS0              | 106            | 5530           | 0.29              | 91.40             | 0.68                       | ≤ 10.50                    | Pass   |
| 11ac-VHT80 | MCS0              | 122            | 5610           | 4.44              | 91.40             | 4.83                       | ≤ 10.50                    | Pass   |
| 11ac-VHT80 | MCS0              | 138            | 5690           | 4.64              | 91.40             | 5.03                       | ≤ 10.50                    | Pass   |

Note 1: When EUT duty cycle ≥ 98%, the Final PSD (dBm/MHz) = PSD (dBm/MHz).

Note 2: When EUT duty cycle < 98%, the Final PSD (dBm/MHz) = PSD (dBm/MHz) + 10\*log(1/Duty Cycle).

Note 3: EIRP PSD (dBm/MHz) = Final PSD (dBm/MHz) + Antenna Gain (dBi).

| Test Mode | Data Rate/<br>MCS | Channel<br>No. | Freq.<br>(MHz) | PSD (dBm/<br>MHz) | Duty Cycle<br>(%) | Final PSD<br>(dBm/<br>MHz) | PSD Limit<br>(dBm/<br>MHz) | Result |
|-----------|-------------------|----------------|----------------|-------------------|-------------------|----------------------------|----------------------------|--------|
| Ant 2     |                   |                |                |                   |                   |                            |                            |        |
| 11a       | 6Mbps             | 52             | 5260           | 10.08             | 95.80             | 10.27                      | ≤ 10.50                    | Pass   |
| 11a       | 6Mbps             | 60             | 5300           | 10.00             | 95.80             | 10.19                      | ≤ 10.50                    | Pass   |
| 11a       | 6Mbps             | 64             | 5320           | 10.00             | 95.80             | 10.19                      | ≤ 10.50                    | Pass   |
| 11a       | 6Mbps             | 100            | 5500           | 10.09             | 95.80             | 10.28                      | ≤ 10.50                    | Pass   |
| 11a       | 6Mbps             | 116            | 5580           | 10.13             | 95.80             | 10.32                      | ≤ 10.50                    | Pass   |
| 11a       | 6Mbps             | 120            | 5600           | 9.91              | 95.80             | 10.10                      | ≤ 10.50                    | Pass   |
| 11a       | 6Mbps             | 140            | 5700           | 10.11             | 95.80             | 10.30                      | ≤ 10.50                    | Pass   |
| 11a       | 6Mbps             | 144            | 5720           | 10.02             | 95.80             | 10.21                      | ≤ 10.50                    | Pass   |
| 11n-HT20  | MCS0              | 52             | 5260           | 10.02             | 98.07             | 10.02                      | ≤ 10.50                    | Pass   |
| 11n-HT20  | MCS0              | 60             | 5300           | 10.04             | 98.07             | 10.04                      | ≤ 10.50                    | Pass   |
| 11n-HT20  | MCS0              | 64             | 5320           | 9.92              | 98.07             | 9.92                       | ≤ 10.50                    | Pass   |
| 11n-HT20  | MCS0              | 100            | 5500           | 10.08             | 98.07             | 10.08                      | ≤ 10.50                    | Pass   |
| 11n-HT20  | MCS0              | 116            | 5580           | 10.04             | 98.07             | 10.04                      | ≤ 10.50                    | Pass   |
| 11n-HT20  | MCS0              | 120            | 5600           | 10.07             | 98.07             | 10.07                      | ≤ 10.50                    | Pass   |
| 11n-HT20  | MCS0              | 140            | 5700           | 9.75              | 98.07             | 9.75                       | ≤ 10.50                    | Pass   |
| 11n-HT20  | MCS0              | 144            | 5720           | 9.95              | 98.07             | 9.95                       | ≤ 10.50                    | Pass   |

| Test Mode  | Data Rate/<br>MCS | Channel<br>No. | Freq.<br>(MHz) | PSD (dBm/<br>MHz) | Duty Cycle<br>(%) | Final PSD<br>(dBm/<br>MHz) | PSD Limit<br>(dBm/<br>MHz) | Result |
|------------|-------------------|----------------|----------------|-------------------|-------------------|----------------------------|----------------------------|--------|
| Ant 2      |                   |                |                |                   |                   |                            |                            |        |
| 11n-HT40   | MCS0              | 54             | 5270           | 8.27              | 96.61             | 8.42                       | ≤ 10.50                    | Pass   |
| 11n-HT40   | MCS0              | 62             | 5310           | 5.93              | 96.61             | 6.08                       | ≤ 10.50                    | Pass   |
| 11n-HT40   | MCS0              | 102            | 5510           | 5.86              | 96.61             | 6.01                       | ≤ 10.50                    | Pass   |
| 11n-HT40   | MCS0              | 110            | 5550           | 8.09              | 96.61             | 8.24                       | ≤ 10.50                    | Pass   |
| 11n-HT40   | MCS0              | 118            | 5590           | 8.46              | 96.61             | 8.61                       | ≤ 10.50                    | Pass   |
| 11n-HT40   | MCS0              | 134            | 5670           | 8.38              | 96.61             | 8.53                       | ≤ 10.50                    | Pass   |
| 11n-HT40   | MCS0              | 142            | 5710           | 8.44              | 96.61             | 8.59                       | ≤ 10.50                    | Pass   |
| 11ac-VHT20 | MCS0              | 52             | 5260           | 9.87              | 98.21             | 9.87                       | ≤ 10.50                    | Pass   |
| 11ac-VHT20 | MCS0              | 60             | 5300           | 9.98              | 98.21             | 9.98                       | ≤ 10.50                    | Pass   |
| 11ac-VHT20 | MCS0              | 64             | 5320           | 9.98              | 98.21             | 9.98                       | ≤ 10.50                    | Pass   |
| 11ac-VHT20 | MCS0              | 100            | 5500           | 10.08             | 98.21             | 10.08                      | ≤ 10.50                    | Pass   |
| 11ac-VHT20 | MCS0              | 116            | 5580           | 10.06             | 98.21             | 10.06                      | ≤ 10.50                    | Pass   |
| 11ac-VHT20 | MCS0              | 120            | 5600           | 10.09             | 98.21             | 10.09                      | ≤ 10.50                    | Pass   |
| 11ac-VHT20 | MCS0              | 140            | 5700           | 9.53              | 98.21             | 9.53                       | ≤ 10.50                    | Pass   |
| 11ac-VHT20 | MCS0              | 144            | 5720           | 9.99              | 98.21             | 9.99                       | ≤ 10.50                    | Pass   |
| 11ac-VHT40 | MCS0              | 54             | 5270           | 8.26              | 96.43             | 8.42                       | ≤ 10.50                    | Pass   |
| 11ac-VHT40 | MCS0              | 62             | 5310           | 5.99              | 96.43             | 6.15                       | ≤ 10.50                    | Pass   |
| 11ac-VHT40 | MCS0              | 102            | 5510           | 6.47              | 96.43             | 6.63                       | ≤ 10.50                    | Pass   |
| 11ac-VHT40 | MCS0              | 110            | 5550           | 8.12              | 96.43             | 8.28                       | ≤ 10.50                    | Pass   |
| 11ac-VHT40 | MCS0              | 118            | 5590           | 8.37              | 96.43             | 8.53                       | ≤ 10.50                    | Pass   |
| 11ac-VHT40 | MCS0              | 134            | 5670           | 8.51              | 96.43             | 8.67                       | ≤ 10.50                    | Pass   |
| 11ac-VHT40 | MCS0              | 142            | 5710           | 8.62              | 96.43             | 8.78                       | ≤ 10.50                    | Pass   |
| 11ac-VHT80 | MCS0              | 58             | 5290           | 2.42              | 91.40             | 2.81                       | ≤ 10.50                    | Pass   |
| 11ac-VHT80 | MCS0              | 106            | 5530           | 1.45              | 91.40             | 1.84                       | ≤ 10.50                    | Pass   |
| 11ac-VHT80 | MCS0              | 122            | 5610           | 4.38              | 91.40             | 4.77                       | ≤ 10.50                    | Pass   |
| 11ac-VHT80 | MCS0              | 138            | 5690           | 4.71              | 91.40             | 5.10                       | ≤ 10.50                    | Pass   |

Note 1: When EUT duty cycle ≥ 98%, the Final PSD (dBm/MHz) = PSD (dBm/MHz).

Note 2: When EUT duty cycle < 98%, the Final PSD (dBm/MHz) = PSD (dBm/MHz) + 10\*log(1/Duty Cycle).

Note 3: EIRP PSD (dBm/MHz) = Final PSD (dBm/MHz) + Antenna Gain (dBi)

| Test Mode            | Data Rate/<br>MCS | Channel No. | Freq. (MHz) | Ant 1 PSD (dBm/MHz) | Ant 2 PSD (dBm/MHz) | Duty Cycle (%) | Total PSD (dBm/MHz) | PSD Limit (dBm/MHz) | Result |
|----------------------|-------------------|-------------|-------------|---------------------|---------------------|----------------|---------------------|---------------------|--------|
| Ant 1 + 2 (CDD Mode) |                   |             |             |                     |                     |                |                     |                     |        |
| 11a                  | 6Mbps             | 52          | 5260        | 3.54                | 4.36                | 95.80          | 7.17                | ≤ 7.49              | Pass   |
| 11a                  | 6Mbps             | 60          | 5300        | 3.37                | 4.09                | 95.80          | 6.94                | ≤ 7.49              | Pass   |
| 11a                  | 6Mbps             | 64          | 5320        | 3.43                | 4.03                | 95.80          | 6.94                | ≤ 7.49              | Pass   |
| 11a                  | 6Mbps             | 100         | 5500        | 3.51                | 4.24                | 95.80          | 7.09                | ≤ 7.49              | Pass   |
| 11a                  | 6Mbps             | 116         | 5580        | 3.73                | 4.35                | 95.80          | 7.25                | ≤ 7.49              | Pass   |
| 11a                  | 6Mbps             | 120         | 5600        | 3.64                | 4.35                | 95.80          | 7.21                | ≤ 7.49              | Pass   |
| 11a                  | 6Mbps             | 140         | 5700        | 3.56                | 4.23                | 95.80          | 7.10                | ≤ 7.49              | Pass   |
| 11a                  | 6Mbps             | 144         | 5720        | 3.74                | 4.26                | 95.80          | 7.20                | ≤ 7.49              | Pass   |
| 11n-HT20             | MCS0              | 52          | 5260        | 3.52                | 4.35                | 98.07          | 6.97                | ≤ 7.49              | Pass   |
| 11n-HT20             | MCS0              | 60          | 5300        | 3.26                | 4.10                | 98.07          | 6.71                | ≤ 7.49              | Pass   |
| 11n-HT20             | MCS0              | 64          | 5320        | 3.56                | 4.40                | 98.07          | 7.01                | ≤ 7.49              | Pass   |
| 11n-HT20             | MCS0              | 100         | 5500        | 3.75                | 4.27                | 98.07          | 7.03                | ≤ 7.49              | Pass   |
| 11n-HT20             | MCS0              | 116         | 5580        | 3.77                | 4.43                | 98.07          | 7.12                | ≤ 7.49              | Pass   |
| 11n-HT20             | MCS0              | 120         | 5600        | 3.77                | 4.45                | 98.07          | 7.13                | ≤ 7.49              | Pass   |
| 11n-HT20             | MCS0              | 140         | 5700        | 3.64                | 4.30                | 98.07          | 7.00                | ≤ 7.49              | Pass   |
| 11n-HT20             | MCS0              | 144         | 5720        | 3.35                | 4.26                | 98.07          | 6.84                | ≤ 7.49              | Pass   |
| 11n-HT40             | MCS0              | 54          | 5270        | 3.67                | 4.32                | 96.61          | 7.17                | ≤ 7.49              | Pass   |
| 11n-HT40             | MCS0              | 62          | 5310        | 3.66                | 4.06                | 96.61          | 7.02                | ≤ 7.49              | Pass   |
| 11n-HT40             | MCS0              | 102         | 5510        | 3.37                | 4.27                | 96.61          | 7.00                | ≤ 7.49              | Pass   |
| 11n-HT40             | MCS0              | 110         | 5550        | 3.69                | 4.30                | 96.61          | 7.17                | ≤ 7.49              | Pass   |
| 11n-HT40             | MCS0              | 118         | 5590        | 3.65                | 3.93                | 96.61          | 6.95                | ≤ 7.49              | Pass   |
| 11n-HT40             | MCS0              | 134         | 5670        | 3.54                | 4.31                | 96.61          | 7.10                | ≤ 7.49              | Pass   |
| 11n-HT40             | MCS0              | 142         | 5710        | 3.62                | 4.03                | 96.61          | 6.99                | ≤ 7.49              | Pass   |

| Test Mode            | Data Rate/MCS | Channel No. | Freq. (MHz) | Ant 1 PSD (dBm/MHz) | Ant 2 PSD (dBm/MHz) | Duty Cycle (%) | Total PSD (dBm/MHz) | PSD Limit (dBm/MHz) | Result |
|----------------------|---------------|-------------|-------------|---------------------|---------------------|----------------|---------------------|---------------------|--------|
| Ant 1 + 2 (CDD Mode) |               |             |             |                     |                     |                |                     |                     |        |
| 11ac-VHT20           | MCS0          | 52          | 5260        | 3.39                | 4.41                | 98.21          | 7.02                | ≤ 7.49              | Pass   |
| 11ac-VHT20           | MCS0          | 60          | 5300        | 3.71                | 4.45                | 98.21          | 7.18                | ≤ 7.49              | Pass   |
| 11ac-VHT20           | MCS0          | 64          | 5320        | 3.56                | 4.39                | 98.21          | 7.08                | ≤ 7.49              | Pass   |
| 11ac-VHT20           | MCS0          | 100         | 5500        | 3.41                | 4.46                | 98.21          | 7.06                | ≤ 7.49              | Pass   |
| 11ac-VHT20           | MCS0          | 116         | 5580        | 3.65                | 4.37                | 98.21          | 7.04                | ≤ 7.49              | Pass   |
| 11ac-VHT20           | MCS0          | 120         | 5600        | 3.68                | 4.24                | 98.21          | 7.06                | ≤ 7.49              | Pass   |
| 11ac-VHT20           | MCS0          | 140         | 5700        | 3.58                | 4.27                | 98.21          | 7.03                | ≤ 7.49              | Pass   |
| 11ac-VHT20           | MCS0          | 144         | 5720        | 3.67                | 4.11                | 98.21          | 6.98                | ≤ 7.49              | Pass   |
| 11ac-VHT40           | MCS0          | 54          | 5270        | 3.70                | 4.35                | 96.43          | 7.21                | ≤ 7.49              | Pass   |
| 11ac-VHT40           | MCS0          | 62          | 5310        | 3.60                | 4.37                | 96.43          | 7.17                | ≤ 7.49              | Pass   |
| 11ac-VHT40           | MCS0          | 102         | 5510        | 3.49                | 4.41                | 96.43          | 7.14                | ≤ 7.49              | Pass   |
| 11ac-VHT40           | MCS0          | 110         | 5550        | 3.71                | 4.36                | 96.43          | 7.22                | ≤ 7.49              | Pass   |
| 11ac-VHT40           | MCS0          | 118         | 5590        | 3.52                | 3.79                | 96.43          | 6.83                | ≤ 7.49              | Pass   |
| 11ac-VHT40           | MCS0          | 134         | 5670        | 3.78                | 4.24                | 96.43          | 7.18                | ≤ 7.49              | Pass   |
| 11ac-VHT40           | MCS0          | 142         | 5710        | 3.65                | 4.25                | 96.43          | 7.13                | ≤ 7.49              | Pass   |
| 11ac-VHT80           | MCS0          | 58          | 5290        | 1.02                | 1.52                | 91.40          | 4.68                | ≤ 7.49              | Pass   |
| 11ac-VHT80           | MCS0          | 106         | 5530        | -1.21               | -0.68               | 91.40          | 2.46                | ≤ 7.49              | Pass   |
| 11ac-VHT80           | MCS0          | 122         | 5610        | 2.85                | 3.67                | 91.40          | 6.68                | ≤ 7.49              | Pass   |
| 11ac-VHT80           | MCS0          | 138         | 5690        | 2.48                | 3.14                | 91.40          | 6.22                | ≤ 7.49              | Pass   |

Note 1: When EUT duty cycle ≥ 98%, the total PSD =  $10 \cdot \log\{10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)}\}$

Note 2: When EUT duty cycle < 98%, the total PSD =  $10 \cdot \log\{10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)}\} + 10 \cdot \log(1/\text{duty cycle})$

Note 3: EIRP PSD (dBm/MHz) = Total PSD (dBm/MHz) + Antenna Gain(dBi)

| Test Mode                     | Data Rate/<br>MCS | Channel No. | Freq. (MHz) | Ant 1 PSD (dBm/MHz) | Ant 2 PSD (dBm/MHz) | Duty Cycle (%) | Total PSD (dBm/MHz) | PSD Limit (dBm/MHz) | Result |
|-------------------------------|-------------------|-------------|-------------|---------------------|---------------------|----------------|---------------------|---------------------|--------|
| Ant 1 + 2 (Beam-Forming Mode) |                   |             |             |                     |                     |                |                     |                     |        |
| 11n-HT20                      | MCS0              | 52          | 5260        | 3.52                | 4.35                | 98.07          | 6.97                | ≤ 7.49              | Pass   |
| 11n-HT20                      | MCS0              | 60          | 5300        | 3.26                | 4.10                | 98.07          | 6.71                | ≤ 7.49              | Pass   |
| 11n-HT20                      | MCS0              | 64          | 5320        | 3.56                | 4.40                | 98.07          | 7.01                | ≤ 7.49              | Pass   |
| 11n-HT20                      | MCS0              | 100         | 5500        | 3.75                | 4.27                | 98.07          | 7.03                | ≤ 7.49              | Pass   |
| 11n-HT20                      | MCS0              | 116         | 5580        | 3.77                | 4.43                | 98.07          | 7.12                | ≤ 7.49              | Pass   |
| 11n-HT20                      | MCS0              | 120         | 5600        | 3.77                | 4.45                | 98.07          | 7.13                | ≤ 7.49              | Pass   |
| 11n-HT20                      | MCS0              | 140         | 5700        | 3.64                | 4.30                | 98.07          | 7.00                | ≤ 7.49              | Pass   |
| 11n-HT20                      | MCS0              | 144         | 5720        | 3.35                | 4.26                | 98.07          | 6.84                | ≤ 7.49              | Pass   |
| 11n-HT40                      | MCS0              | 54          | 5270        | 2.13                | 2.84                | 96.61          | 5.66                | ≤ 7.49              | Pass   |
| 11n-HT40                      | MCS0              | 62          | 5310        | 1.93                | 2.53                | 96.61          | 5.40                | ≤ 7.49              | Pass   |
| 11n-HT40                      | MCS0              | 102         | 5510        | 1.98                | 3.08                | 96.61          | 5.72                | ≤ 7.49              | Pass   |
| 11n-HT40                      | MCS0              | 110         | 5550        | 2.47                | 3.36                | 96.61          | 6.10                | ≤ 7.49              | Pass   |
| 11n-HT40                      | MCS0              | 118         | 5590        | 2.31                | 2.99                | 96.61          | 5.82                | ≤ 7.49              | Pass   |
| 11n-HT40                      | MCS0              | 134         | 5670        | 1.77                | 2.33                | 96.61          | 5.22                | ≤ 7.49              | Pass   |
| 11n-HT40                      | MCS0              | 142         | 5710        | 1.75                | 2.27                | 96.61          | 5.18                | ≤ 7.49              | Pass   |
| 11ac-VHT20                    | MCS0              | 52          | 5260        | 3.39                | 4.41                | 98.21          | 6.94                | ≤ 7.49              | Pass   |
| 11ac-VHT20                    | MCS0              | 60          | 5300        | 3.71                | 4.45                | 98.21          | 7.11                | ≤ 7.49              | Pass   |
| 11ac-VHT20                    | MCS0              | 64          | 5320        | 3.56                | 4.39                | 98.21          | 7.01                | ≤ 7.49              | Pass   |
| 11ac-VHT20                    | MCS0              | 100         | 5500        | 3.41                | 4.46                | 98.21          | 6.98                | ≤ 7.49              | Pass   |
| 11ac-VHT20                    | MCS0              | 116         | 5580        | 3.65                | 4.37                | 98.21          | 7.04                | ≤ 7.49              | Pass   |
| 11ac-VHT20                    | MCS0              | 120         | 5600        | 3.68                | 4.24                | 98.21          | 6.98                | ≤ 7.49              | Pass   |
| 11ac-VHT20                    | MCS0              | 140         | 5700        | 3.58                | 4.27                | 98.21          | 6.95                | ≤ 7.49              | Pass   |
| 11ac-VHT20                    | MCS0              | 144         | 5720        | 3.67                | 4.11                | 98.21          | 6.91                | ≤ 7.49              | Pass   |
| 11ac-VHT40                    | MCS0              | 54          | 5270        | 2.07                | 2.90                | 96.43          | 5.67                | ≤ 7.49              | Pass   |
| 11ac-VHT40                    | MCS0              | 62          | 5310        | 1.89                | 2.81                | 96.43          | 5.54                | ≤ 7.49              | Pass   |
| 11ac-VHT40                    | MCS0              | 102         | 5510        | 1.93                | 3.47                | 96.43          | 5.94                | ≤ 7.49              | Pass   |
| 11ac-VHT40                    | MCS0              | 110         | 5550        | 2.32                | 3.17                | 96.43          | 5.93                | ≤ 7.49              | Pass   |
| 11ac-VHT40                    | MCS0              | 118         | 5590        | 2.48                | 2.98                | 96.43          | 5.91                | ≤ 7.49              | Pass   |
| 11ac-VHT40                    | MCS0              | 134         | 5670        | 1.95                | 2.48                | 96.43          | 5.39                | ≤ 7.49              | Pass   |
| 11ac-VHT40                    | MCS0              | 142         | 5710        | 1.93                | 2.36                | 96.43          | 5.32                | ≤ 7.49              | Pass   |

| Test Mode                     | Data Rate/<br>MCS | Channel No. | Freq. (MHz) | Ant 1 PSD (dBm/MHz) | Ant 2 PSD (dBm/MHz) | Duty Cycle (%) | Total PSD (dBm/MHz) | PSD Limit (dBm/MHz) | Result |
|-------------------------------|-------------------|-------------|-------------|---------------------|---------------------|----------------|---------------------|---------------------|--------|
| Ant 1 + 2 (Beam-Forming Mode) |                   |             |             |                     |                     |                |                     |                     |        |
| 11ac-VHT80                    | MCS0              | 58          | 5290        | -1.16               | -0.50               | 91.40          | 2.58                | ≤ 7.49              | Pass   |
| 11ac-VHT80                    | MCS0              | 106         | 5530        | -1.56               | -0.67               | 91.40          | 2.31                | ≤ 7.49              | Pass   |
| 11ac-VHT80                    | MCS0              | 122         | 5610        | -1.77               | -1.13               | 91.40          | 1.96                | ≤ 7.49              | Pass   |
| 11ac-VHT80                    | MCS0              | 138         | 5690        | -1.95               | -1.16               | 91.40          | 1.86                | ≤ 7.49              | Pass   |

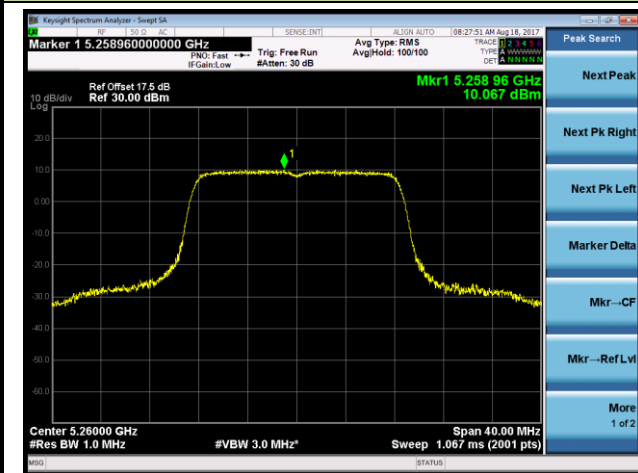
Note 1: When EUT duty cycle ≥ 98%, the total PSD =  $10 \cdot \log\{10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)}\}$

Note 2: When EUT duty cycle < 98%, the total PSD =  $10 \cdot \log\{10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)}\} + 10 \cdot \log(1/\text{duty cycle})$

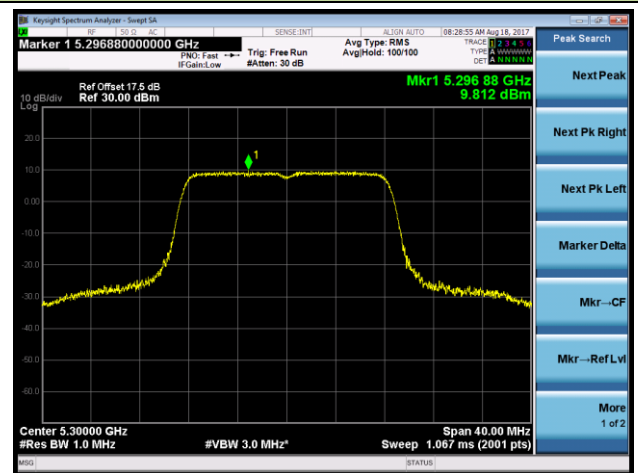
Note 3: EIRP PSD (dBm/MHz) = Total PSD (dBm/MHz) + Antenna Gain(dBi)

## 802.11a Power Spectral Density - Ant 1

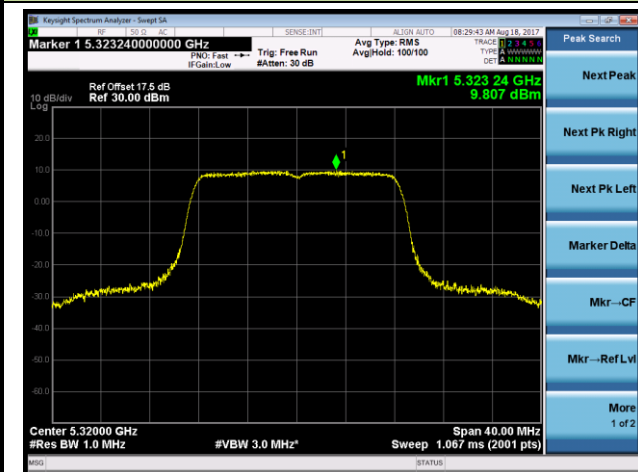
Channel 52 (5260MHz)



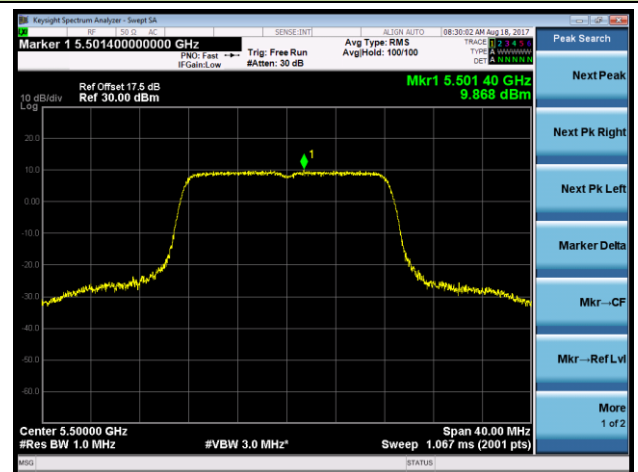
Channel 60 (5300MHz)



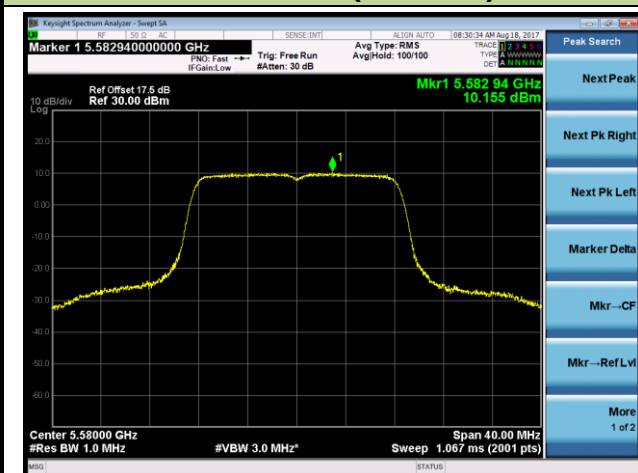
Channel 64 (5320MHz)



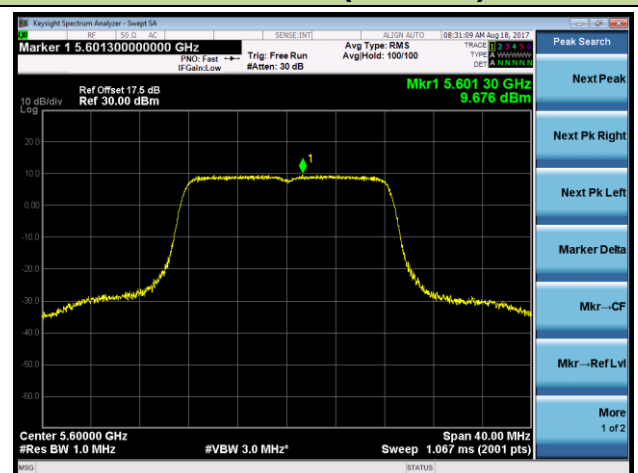
Channel 100 (5500MHz)

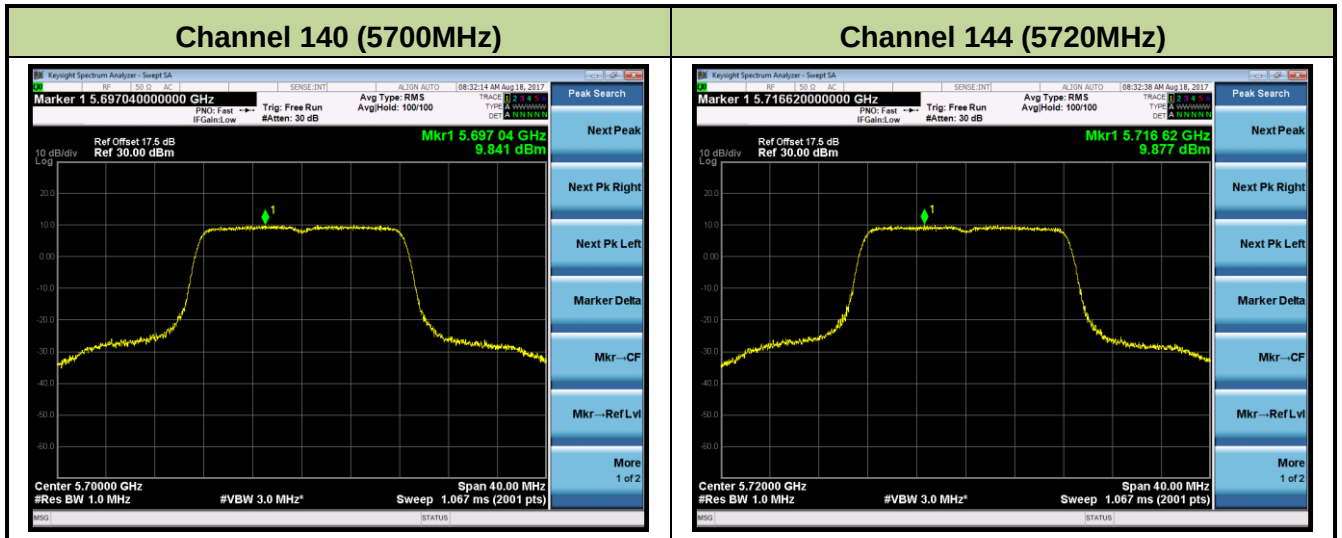


Channel 116 (5580MHz)



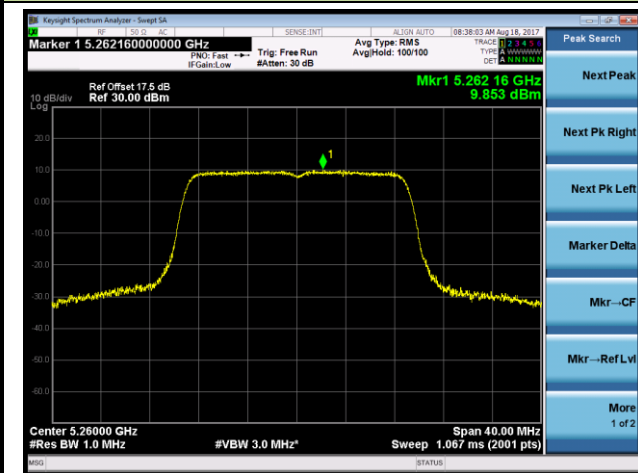
Channel 120 (5600MHz)



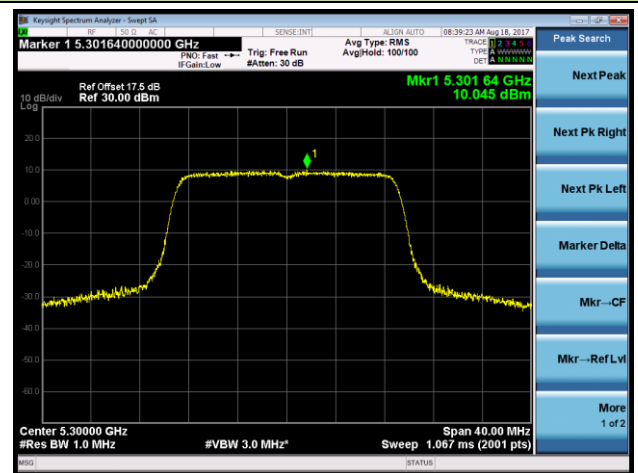


## 802.11n-HT20 Power Spectral Density - Ant 1

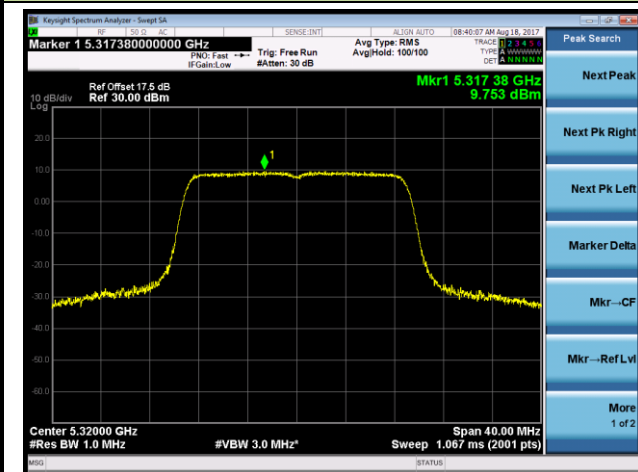
Channel 52 (5260MHz)



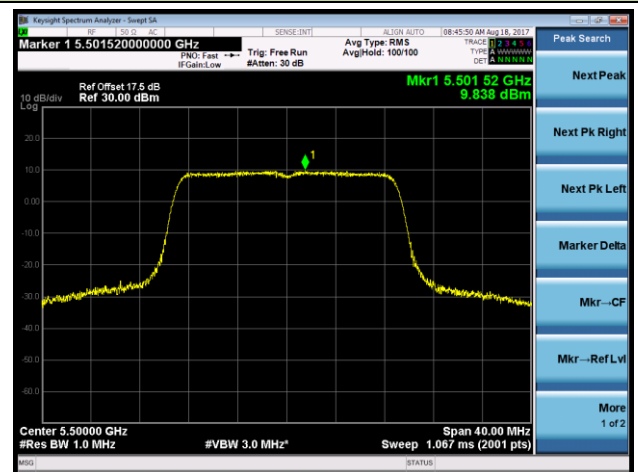
Channel 60 (5300MHz)



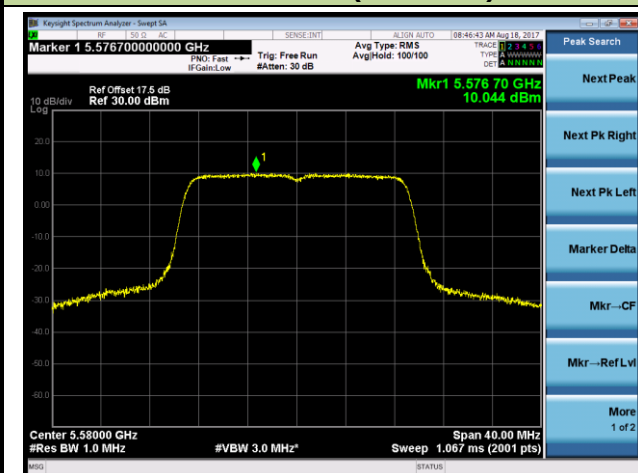
Channel 64 (5320MHz)



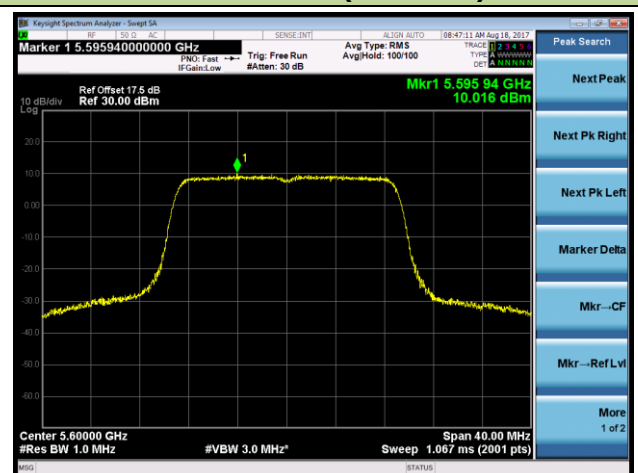
Channel 100 (5500MHz)

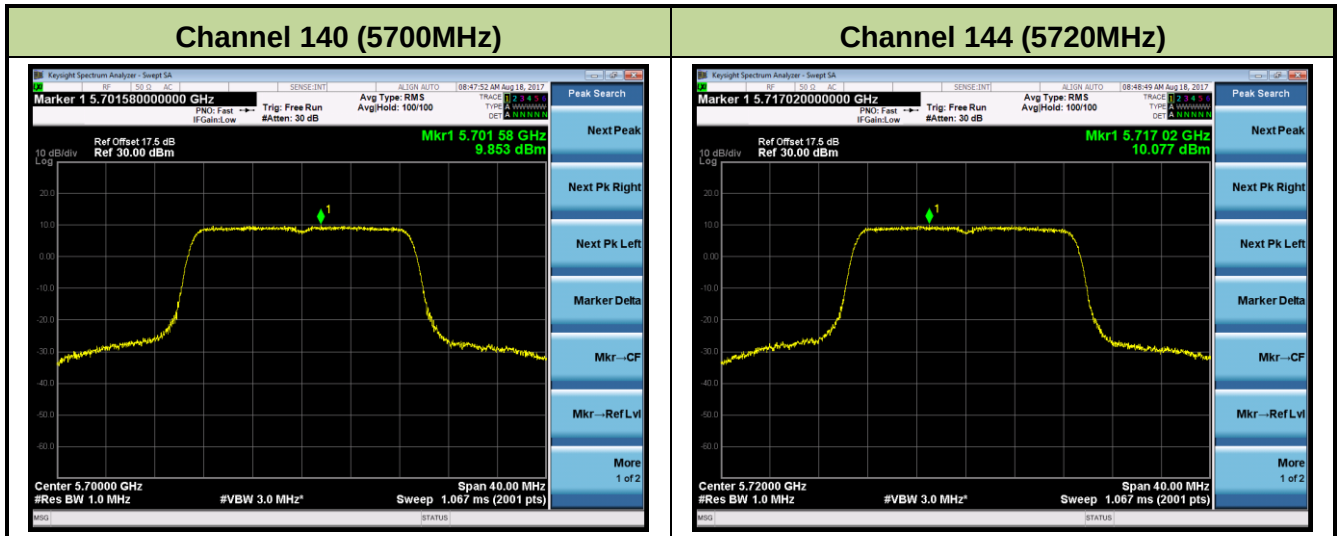


Channel 116 (5580MHz)



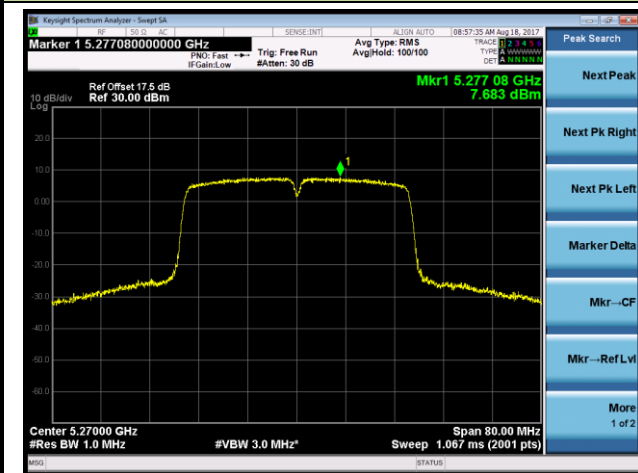
Channel 120 (5600MHz)



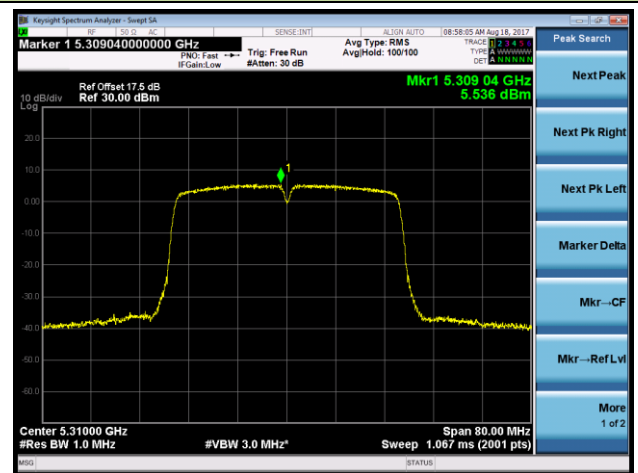


# 802.11n-HT40 Power Spectral Density - Ant 1

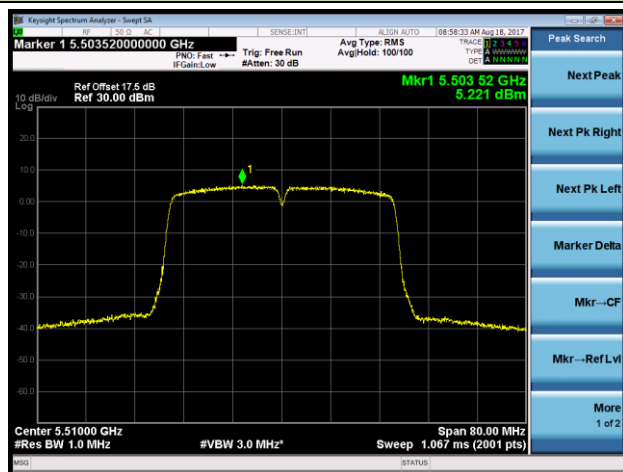
## Channel 54 (5270MHz)



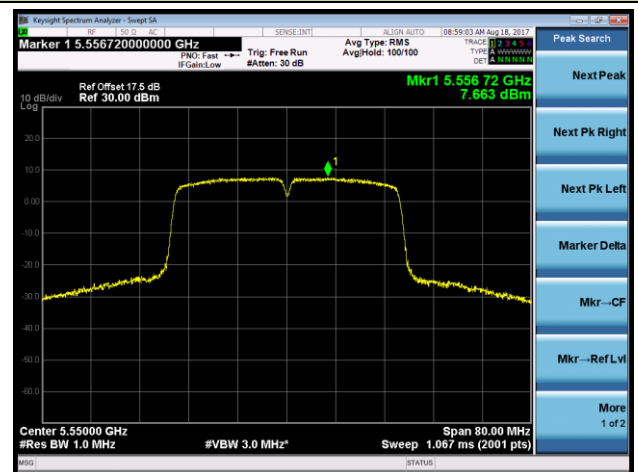
## Channel 62 (5310MHz)



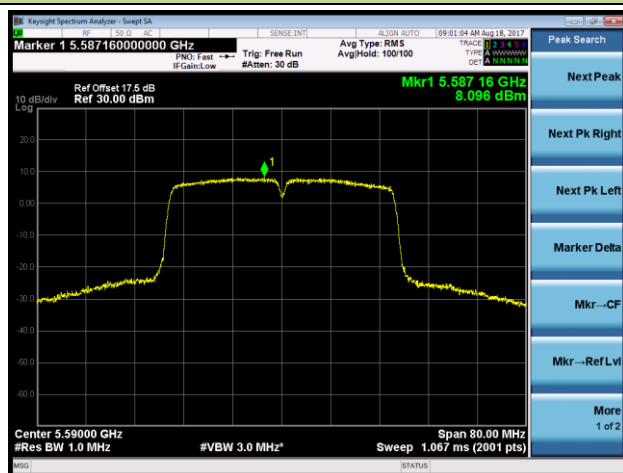
## Channel 102 (5510MHz)



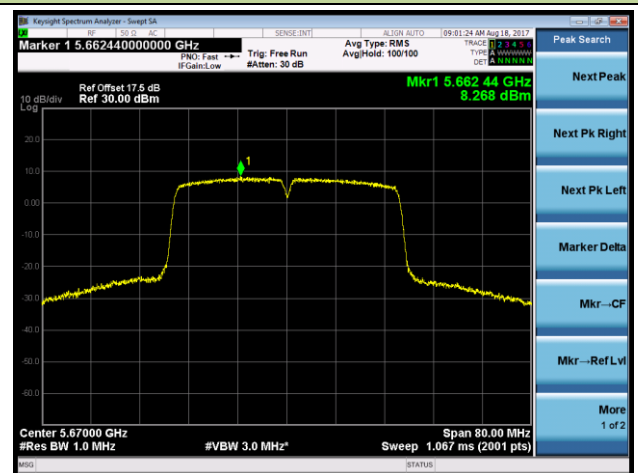
## Channel 110 (5550MHz)



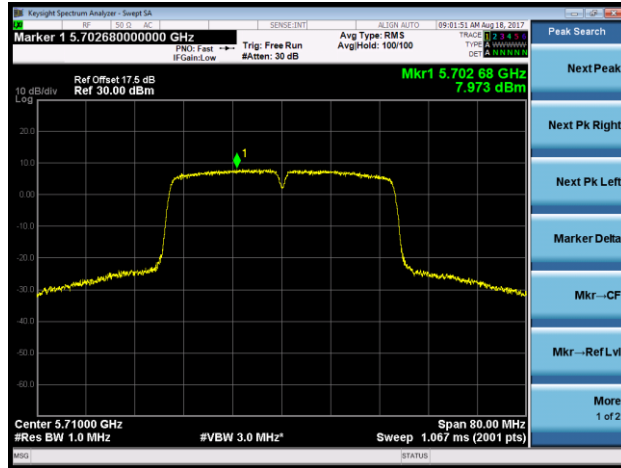
## Channel 118 (5590MHz)



## Channel 134 (5670MHz)

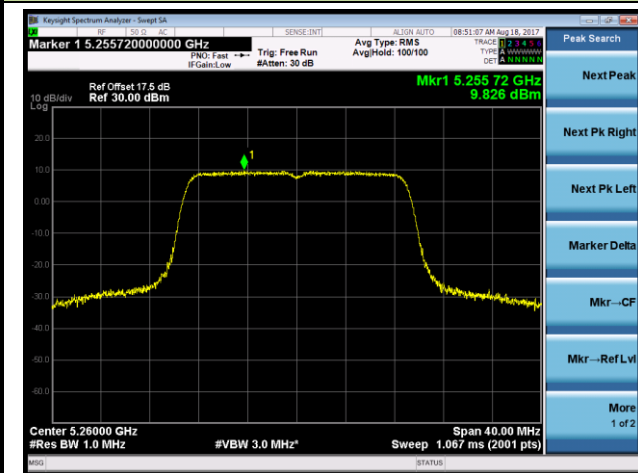


### Channel 142 (5710MHz)

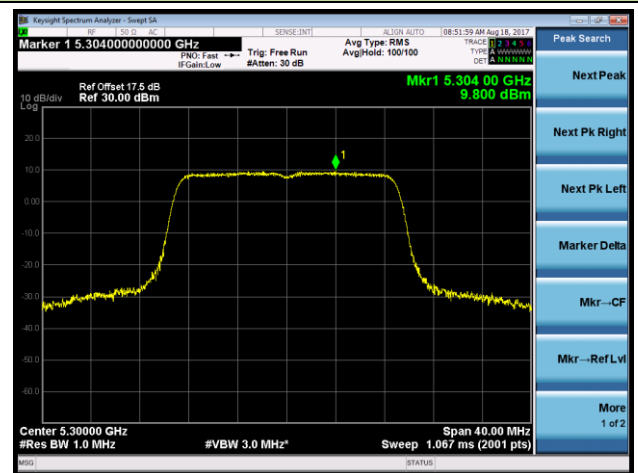


# 802.11ac-VHT20 Power Spectral Density - Ant 1

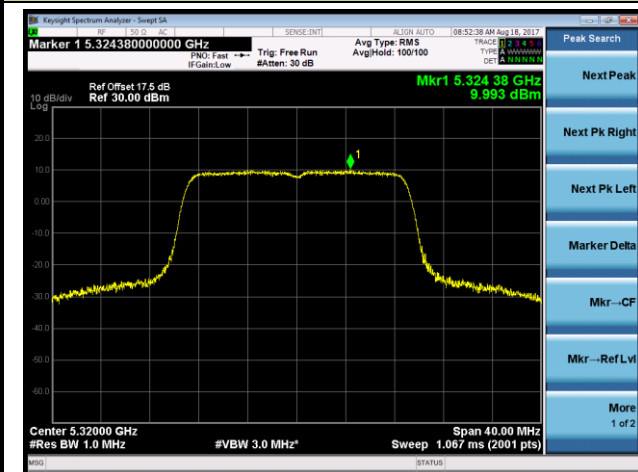
## Channel 52 (5260MHz)



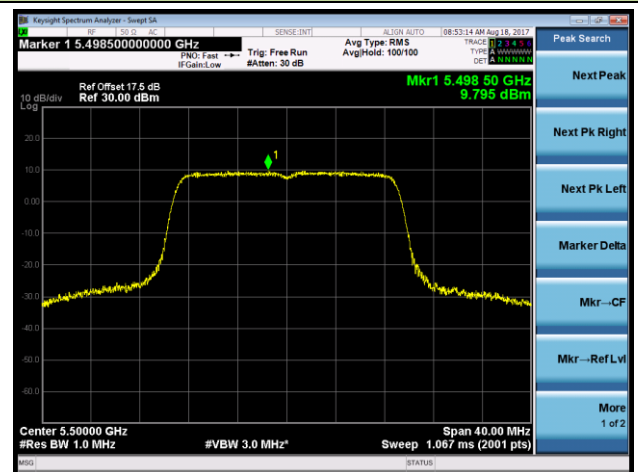
## Channel 60 (5300MHz)



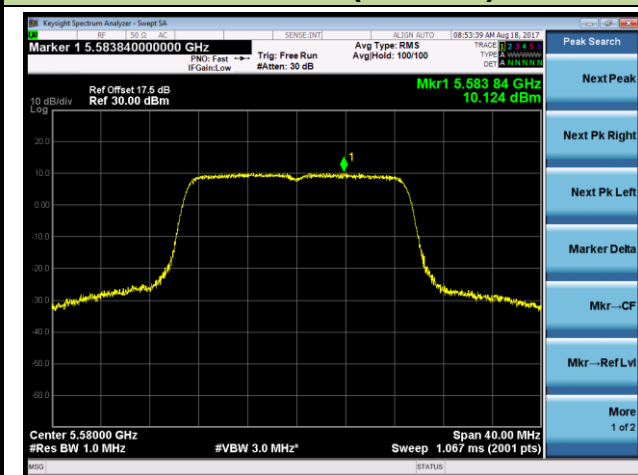
## Channel 64 (5320MHz)



## Channel 100 (5500MHz)



## Channel 116 (5580MHz)



## Channel 120 (5600MHz)

