

Galtronics Small Omni Antenna PSD Test Result

For FCC bands UNII-2A & UNII-2C

| Test Mode | Data Rate (Mbps) | Channel No. | Freq. (MHz) | Ant 0 PSD (dBm/MHz) | Duty Cycle (%) | Total PSD (dBm/MHz) | PSD Limit (dBm/MHz) | Result |
|------------|------------------|-------------|-------------|---------------------|----------------|---------------------|---------------------|--------|
| 11a | 6 | 52 | 5260 | 10.13 | 97.18 | 10.25 | ≤ 11.00 | Pass |
| 11a | 6 | 60 | 5300 | 10.24 | 97.18 | 10.36 | ≤ 11.00 | Pass |
| 11a | 6 | 64 | 5320 | 10.39 | 97.18 | 10.51 | ≤ 11.00 | Pass |
| 11a | 6 | 100 | 5500 | 10.58 | 97.18 | 10.70 | ≤ 11.00 | Pass |
| 11a | 6 | 116 | 5580 | 10.59 | 97.18 | 10.71 | ≤ 11.00 | Pass |
| 11a | 6 | 120 | 5600 | 10.58 | 97.18 | 10.70 | ≤ 11.00 | Pass |
| 11a | 6 | 140 | 5700 | 10.35 | 97.18 | 10.47 | ≤ 11.00 | Pass |
| 11n-HT20 | 6.5 | 52 | 5260 | 10.41 | 98.81 | 10.41 | ≤ 11.00 | Pass |
| 11n-HT20 | 6.5 | 60 | 5300 | 10.62 | 98.81 | 10.62 | ≤ 11.00 | Pass |
| 11n-HT20 | 6.5 | 64 | 5320 | 10.45 | 98.81 | 10.45 | ≤ 11.00 | Pass |
| 11n-HT20 | 6.5 | 100 | 5500 | 10.82 | 98.81 | 10.82 | ≤ 11.00 | Pass |
| 11n-HT20 | 6.5 | 116 | 5580 | 10.54 | 98.81 | 10.54 | ≤ 11.00 | Pass |
| 11n-HT20 | 6.5 | 120 | 5600 | 10.66 | 98.81 | 10.66 | ≤ 11.00 | Pass |
| 11n-HT20 | 6.5 | 140 | 5700 | 10.51 | 98.81 | 10.51 | ≤ 11.00 | Pass |
| 11n-HT40 | 13.5 | 54 | 5270 | 8.11 | 97.55 | 8.22 | ≤ 11.00 | Pass |
| 11n-HT40 | 13.5 | 62 | 5310 | 9.01 | 97.55 | 9.12 | ≤ 11.00 | Pass |
| 11n-HT40 | 13.5 | 102 | 5510 | 9.19 | 97.55 | 9.30 | ≤ 11.00 | Pass |
| 11n-HT40 | 13.5 | 110 | 5550 | 8.97 | 97.55 | 9.08 | ≤ 11.00 | Pass |
| 11n-HT40 | 13.5 | 118 | 5590 | 9.02 | 97.55 | 9.13 | ≤ 11.00 | Pass |
| 11n-HT40 | 13.5 | 134 | 5670 | 9.02 | 97.55 | 9.13 | ≤ 11.00 | Pass |
| 11ac-VHT20 | 6.5 | 52 | 5260 | 10.52 | 98.82 | 10.52 | ≤ 11.00 | Pass |
| 11ac-VHT20 | 6.5 | 60 | 5300 | 10.63 | 98.82 | 10.63 | ≤ 11.00 | Pass |
| 11ac-VHT20 | 6.5 | 64 | 5320 | 10.53 | 98.82 | 10.53 | ≤ 11.00 | Pass |
| 11ac-VHT20 | 6.5 | 100 | 5500 | 10.83 | 98.82 | 10.83 | ≤ 11.00 | Pass |
| 11ac-VHT20 | 6.5 | 116 | 5580 | 10.60 | 98.82 | 10.60 | ≤ 11.00 | Pass |
| 11ac-VHT20 | 6.5 | 120 | 5600 | 10.65 | 98.82 | 10.65 | ≤ 11.00 | Pass |
| 11ac-VHT20 | 6.5 | 140 | 5700 | 10.72 | 98.82 | 10.72 | ≤ 11.00 | Pass |
| 11ac-VHT20 | 6.5 | 144 | 5720 | 10.42 | 98.82 | 10.42 | ≤ 11.00 | Pass |
| 11ac-VHT40 | 13.5 | 54 | 5270 | 8.26 | 97.40 | 8.37 | ≤ 11.00 | Pass |
| 11ac-VHT40 | 13.5 | 62 | 5310 | 8.97 | 97.40 | 9.08 | ≤ 11.00 | Pass |

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|------------|------|-----|------|------|-------|------|---------|------|
| 11ac-VHT40 | 13.5 | 102 | 5510 | 9.19 | 97.40 | 9.30 | ≤ 11.00 | Pass |
| 11ac-VHT40 | 13.5 | 110 | 5550 | 9.06 | 97.40 | 9.17 | ≤ 11.00 | Pass |
| 11ac-VHT40 | 13.5 | 118 | 5590 | 9.08 | 97.40 | 9.19 | ≤ 11.00 | Pass |
| 11ac-VHT40 | 13.5 | 134 | 5670 | 9.17 | 97.40 | 9.28 | ≤ 11.00 | Pass |
| 11ac-VHT40 | 13.5 | 142 | 5710 | 9.47 | 97.40 | 9.58 | ≤ 11.00 | Pass |
| 11ac-VHT80 | 29.3 | 58 | 5290 | 4.76 | 94.30 | 5.01 | ≤ 11.00 | Pass |
| 11ac-VHT80 | 29.3 | 106 | 5530 | 6.19 | 94.30 | 6.44 | ≤ 11.00 | Pass |
| 11ac-VHT80 | 29.3 | 122 | 5610 | 5.49 | 94.30 | 5.74 | ≤ 11.00 | Pass |
| 11ac-VHT80 | 29.3 | 138 | 5690 | 5.98 | 94.30 | 6.23 | ≤ 11.00 | Pass |

Note 1: When EUT duty cycle < 98%, the total PSD = Ant 0 PSD (dBm/MHz) + 10*log(1/duty cycle).

Note 2: When EUT duty cycle > 98%, the total PSD = Ant 0 PSD (dBm/MHz).

| Test Mode | Data Rate (Mbps) | Channel No. | Freq. (MHz) | Ant 1 PSD (dBm/MHz) | Duty Cycle (%) | Total PSD (dBm/MHz) | PSD Limit (dBm/MHz) | Result |
|------------|------------------|-------------|-------------|---------------------|----------------|---------------------|---------------------|--------|
| 11a | 6 | 52 | 5260 | 10.71 | 97.18 | 10.83 | ≤ 11.00 | Pass |
| 11a | 6 | 60 | 5300 | 10.36 | 97.18 | 10.48 | ≤ 11.00 | Pass |
| 11a | 6 | 64 | 5320 | 10.53 | 97.18 | 10.65 | ≤ 11.00 | Pass |
| 11a | 6 | 100 | 5500 | 10.54 | 97.18 | 10.66 | ≤ 11.00 | Pass |
| 11a | 6 | 116 | 5580 | 10.36 | 97.18 | 10.48 | ≤ 11.00 | Pass |
| 11a | 6 | 120 | 5600 | 10.69 | 97.18 | 10.81 | ≤ 11.00 | Pass |
| 11a | 6 | 140 | 5700 | 10.51 | 97.18 | 10.63 | ≤ 11.00 | Pass |
| 11n-HT20 | 6.5 | 52 | 5260 | 10.44 | 98.81 | 10.44 | ≤ 11.00 | Pass |
| 11n-HT20 | 6.5 | 60 | 5300 | 10.51 | 98.81 | 10.51 | ≤ 11.00 | Pass |
| 11n-HT20 | 6.5 | 64 | 5320 | 10.77 | 98.81 | 10.77 | ≤ 11.00 | Pass |
| 11n-HT20 | 6.5 | 100 | 5500 | 10.52 | 98.81 | 10.52 | ≤ 11.00 | Pass |
| 11n-HT20 | 6.5 | 116 | 5580 | 10.24 | 98.81 | 10.24 | ≤ 11.00 | Pass |
| 11n-HT20 | 6.5 | 120 | 5600 | 10.70 | 98.81 | 10.70 | ≤ 11.00 | Pass |
| 11n-HT20 | 6.5 | 140 | 5700 | 10.63 | 98.81 | 10.63 | ≤ 11.00 | Pass |
| 11n-HT40 | 13.5 | 54 | 5270 | 8.41 | 97.55 | 8.52 | ≤ 11.00 | Pass |
| 11n-HT40 | 13.5 | 62 | 5310 | 8.53 | 97.55 | 8.64 | ≤ 11.00 | Pass |
| 11n-HT40 | 13.5 | 102 | 5510 | 8.82 | 97.55 | 8.93 | ≤ 11.00 | Pass |
| 11n-HT40 | 13.5 | 110 | 5550 | 8.58 | 97.55 | 8.69 | ≤ 11.00 | Pass |
| 11n-HT40 | 13.5 | 118 | 5590 | 9.37 | 97.55 | 9.48 | ≤ 11.00 | Pass |
| 11n-HT40 | 13.5 | 134 | 5670 | 8.96 | 97.55 | 9.07 | ≤ 11.00 | Pass |
| 11ac-VHT20 | 6.5 | 52 | 5260 | 10.31 | 98.82 | 10.31 | ≤ 11.00 | Pass |
| 11ac-VHT20 | 6.5 | 60 | 5300 | 10.52 | 98.82 | 10.52 | ≤ 11.00 | Pass |
| 11ac-VHT20 | 6.5 | 64 | 5320 | 10.42 | 98.82 | 10.42 | ≤ 11.00 | Pass |
| 11ac-VHT20 | 6.5 | 100 | 5500 | 10.76 | 98.82 | 10.76 | ≤ 11.00 | Pass |
| 11ac-VHT20 | 6.5 | 116 | 5580 | 10.35 | 98.82 | 10.35 | ≤ 11.00 | Pass |
| 11ac-VHT20 | 6.5 | 120 | 5600 | 10.64 | 98.82 | 10.64 | ≤ 11.00 | Pass |
| 11ac-VHT20 | 6.5 | 140 | 5700 | 10.78 | 98.82 | 10.78 | ≤ 11.00 | Pass |
| 11ac-VHT20 | 6.5 | 144 | 5720 | 10.77 | 98.82 | 10.77 | ≤ 11.00 | Pass |
| 11ac-VHT40 | 13.5 | 54 | 5270 | 8.39 | 97.40 | 7.98 | ≤ 11.00 | Pass |
| 11ac-VHT40 | 13.5 | 62 | 5310 | 8.61 | 97.40 | 8.18 | ≤ 11.00 | Pass |
| 11ac-VHT40 | 13.5 | 102 | 5510 | 9.04 | 97.40 | 9.15 | ≤ 11.00 | Pass |
| 11ac-VHT40 | 13.5 | 110 | 5550 | 8.48 | 97.40 | 8.59 | ≤ 11.00 | Pass |
| 11ac-VHT40 | 13.5 | 118 | 5590 | 8.80 | 97.40 | 8.58 | ≤ 11.00 | Pass |

| | | | | | | | | |
|------------|------|-----|------|------|-------|------|---------|------|
| 11ac-VHT40 | 13.5 | 134 | 5670 | 9.25 | 97.40 | 8.71 | ≤ 11.00 | Pass |
| 11ac-VHT40 | 13.5 | 142 | 5710 | 9.46 | 97.40 | 9.09 | ≤ 11.00 | Pass |
| 11ac-VHT80 | 29.3 | 58 | 5290 | 6.04 | 94.30 | 6.29 | ≤ 11.00 | Pass |
| 11ac-VHT80 | 29.3 | 106 | 5530 | 6.52 | 94.30 | 6.77 | ≤ 11.00 | Pass |
| 11ac-VHT80 | 29.3 | 122 | 5610 | 5.84 | 94.30 | 6.09 | ≤ 11.00 | Pass |
| 11ac-VHT80 | 29.3 | 138 | 5690 | 6.58 | 94.30 | 6.09 | ≤ 11.00 | Pass |

Note 1: When EUT duty cycle < 98%, the total PSD = Ant 1 PSD (dBm/MHz) + 10*log(1/duty cycle).

Note 2: When EUT duty cycle > 98%, the total PSD = Ant 1 PSD (dBm/MHz).

| Test Mode | Data Rate (Mbps) | Channel No. | Freq. (MHz) | Ant 2 PSD (dBm/MHz) | Duty Cycle (%) | Total PSD (dBm/MHz) | PSD Limit (dBm/MHz) | Result |
|------------|------------------|-------------|-------------|---------------------|----------------|---------------------|---------------------|--------|
| 11a | 6 | 52 | 5260 | 10.47 | 97.18 | 10.59 | ≤ 11.00 | Pass |
| 11a | 6 | 60 | 5300 | 10.34 | 97.18 | 10.46 | ≤ 11.00 | Pass |
| 11a | 6 | 64 | 5320 | 10.55 | 97.18 | 10.67 | ≤ 11.00 | Pass |
| 11a | 6 | 100 | 5500 | 10.51 | 97.18 | 10.63 | ≤ 11.00 | Pass |
| 11a | 6 | 116 | 5580 | 9.75 | 97.18 | 9.87 | ≤ 11.00 | Pass |
| 11a | 6 | 120 | 5600 | 10.55 | 97.18 | 10.67 | ≤ 11.00 | Pass |
| 11a | 6 | 140 | 5700 | 10.26 | 97.18 | 10.38 | ≤ 11.00 | Pass |
| 11n-HT20 | 6.5 | 52 | 5260 | 10.59 | 98.81 | 10.59 | ≤ 11.00 | Pass |
| 11n-HT20 | 6.5 | 60 | 5300 | 10.82 | 98.81 | 10.82 | ≤ 11.00 | Pass |
| 11n-HT20 | 6.5 | 64 | 5320 | 10.76 | 98.81 | 10.76 | ≤ 11.00 | Pass |
| 11n-HT20 | 6.5 | 100 | 5500 | 10.31 | 98.81 | 10.31 | ≤ 11.00 | Pass |
| 11n-HT20 | 6.5 | 116 | 5580 | 9.64 | 98.81 | 9.64 | ≤ 11.00 | Pass |
| 11n-HT20 | 6.5 | 120 | 5600 | 10.25 | 98.81 | 10.25 | ≤ 11.00 | Pass |
| 11n-HT20 | 6.5 | 140 | 5700 | 10.33 | 98.81 | 10.33 | ≤ 11.00 | Pass |
| 11n-HT40 | 13.5 | 54 | 5270 | 8.97 | 97.55 | 9.08 | ≤ 11.00 | Pass |
| 11n-HT40 | 13.5 | 62 | 5310 | 9.32 | 97.55 | 9.43 | ≤ 11.00 | Pass |
| 11n-HT40 | 13.5 | 102 | 5510 | 9.55 | 97.55 | 9.66 | ≤ 11.00 | Pass |
| 11n-HT40 | 13.5 | 110 | 5550 | 8.56 | 97.55 | 8.67 | ≤ 11.00 | Pass |
| 11n-HT40 | 13.5 | 118 | 5590 | 9.54 | 97.55 | 9.65 | ≤ 11.00 | Pass |
| 11n-HT40 | 13.5 | 134 | 5670 | 9.46 | 97.55 | 9.57 | ≤ 11.00 | Pass |
| 11ac-VHT20 | 6.5 | 52 | 5260 | 10.58 | 98.82 | 10.58 | ≤ 11.00 | Pass |
| 11ac-VHT20 | 6.5 | 60 | 5300 | 10.75 | 98.82 | 10.75 | ≤ 11.00 | Pass |
| 11ac-VHT20 | 6.5 | 64 | 5320 | 10.80 | 98.82 | 10.80 | ≤ 11.00 | Pass |
| 11ac-VHT20 | 6.5 | 100 | 5500 | 10.33 | 98.82 | 10.33 | ≤ 11.00 | Pass |
| 11ac-VHT20 | 6.5 | 116 | 5580 | 9.75 | 98.82 | 9.75 | ≤ 11.00 | Pass |
| 11ac-VHT20 | 6.5 | 120 | 5600 | 10.22 | 98.82 | 10.22 | ≤ 11.00 | Pass |
| 11ac-VHT20 | 6.5 | 140 | 5700 | 10.64 | 98.82 | 10.64 | ≤ 11.00 | Pass |
| 11ac-VHT20 | 6.5 | 144 | 5720 | 10.36 | 98.82 | 10.36 | ≤ 11.00 | Pass |
| 11ac-VHT40 | 13.5 | 54 | 5270 | 8.48 | 97.40 | 8.59 | ≤ 11.00 | Pass |
| 11ac-VHT40 | 13.5 | 62 | 5310 | 9.36 | 97.40 | 9.47 | ≤ 11.00 | Pass |
| 11ac-VHT40 | 13.5 | 102 | 5510 | 9.36 | 97.40 | 9.47 | ≤ 11.00 | Pass |
| 11ac-VHT40 | 13.5 | 110 | 5550 | 8.77 | 97.40 | 8.88 | ≤ 11.00 | Pass |
| 11ac-VHT40 | 13.5 | 118 | 5590 | 9.38 | 97.40 | 9.49 | ≤ 11.00 | Pass |

| | | | | | | | | |
|------------|------|-----|------|------|-------|------|---------|------|
| 11ac-VHT40 | 13.5 | 134 | 5670 | 9.25 | 97.40 | 9.36 | ≤ 11.00 | Pass |
| 11ac-VHT40 | 13.5 | 142 | 5710 | 9.74 | 97.40 | 9.85 | ≤ 11.00 | Pass |
| 11ac-VHT80 | 29.3 | 58 | 5290 | 6.12 | 94.30 | 6.37 | ≤ 11.00 | Pass |
| 11ac-VHT80 | 29.3 | 106 | 5530 | 6.37 | 94.30 | 6.62 | ≤ 11.00 | Pass |
| 11ac-VHT80 | 29.3 | 122 | 5610 | 6.11 | 94.30 | 6.36 | ≤ 11.00 | Pass |
| 11ac-VHT80 | 29.3 | 138 | 5690 | 6.28 | 94.30 | 6.53 | ≤ 11.00 | Pass |

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

Note 2: When EUT duty cycle > 98%, the total PSD = Ant 2 PSD (dBm/MHz).

| Test Mode | Data Rate (Mbps) | Channel No. | Freq. (MHz) | Ant 3 PSD (dBm/MHz) | Duty Cycle (%) | Total PSD (dBm/MHz) | PSD Limit (dBm/MHz) | Result |
|------------|------------------|-------------|-------------|---------------------|----------------|---------------------|---------------------|--------|
| 11a | 6 | 52 | 5260 | 10.29 | 97.18 | 10.41 | ≤ 11.00 | Pass |
| 11a | 6 | 60 | 5300 | 10.55 | 97.18 | 10.67 | ≤ 11.00 | Pass |
| 11a | 6 | 64 | 5320 | 10.31 | 97.18 | 10.43 | ≤ 11.00 | Pass |
| 11a | 6 | 100 | 5500 | 10.61 | 97.18 | 10.73 | ≤ 11.00 | Pass |
| 11a | 6 | 116 | 5580 | 10.61 | 97.18 | 10.73 | ≤ 11.00 | Pass |
| 11a | 6 | 120 | 5600 | 10.63 | 97.18 | 10.75 | ≤ 11.00 | Pass |
| 11a | 6 | 140 | 5700 | 10.45 | 97.18 | 10.57 | ≤ 11.00 | Pass |
| 11n-HT20 | 6.5 | 52 | 5260 | 10.61 | 98.81 | 10.61 | ≤ 11.00 | Pass |
| 11n-HT20 | 6.5 | 60 | 5300 | 10.53 | 98.81 | 10.53 | ≤ 11.00 | Pass |
| 11n-HT20 | 6.5 | 64 | 5320 | 10.43 | 98.81 | 10.43 | ≤ 11.00 | Pass |
| 11n-HT20 | 6.5 | 100 | 5500 | 10.42 | 98.81 | 10.42 | ≤ 11.00 | Pass |
| 11n-HT20 | 6.5 | 116 | 5580 | 10.40 | 98.81 | 10.40 | ≤ 11.00 | Pass |
| 11n-HT20 | 6.5 | 120 | 5600 | 10.69 | 98.81 | 10.69 | ≤ 11.00 | Pass |
| 11n-HT20 | 6.5 | 140 | 5700 | 10.80 | 98.81 | 10.80 | ≤ 11.00 | Pass |
| 11n-HT40 | 13.5 | 54 | 5270 | 9.48 | 97.55 | 9.59 | ≤ 11.00 | Pass |
| 11n-HT40 | 13.5 | 62 | 5310 | 9.25 | 97.55 | 9.36 | ≤ 11.00 | Pass |
| 11n-HT40 | 13.5 | 102 | 5510 | 9.24 | 97.55 | 9.35 | ≤ 11.00 | Pass |
| 11n-HT40 | 13.5 | 110 | 5550 | 8.82 | 97.55 | 8.93 | ≤ 11.00 | Pass |
| 11n-HT40 | 13.5 | 118 | 5590 | 9.15 | 97.55 | 9.26 | ≤ 11.00 | Pass |
| 11n-HT40 | 13.5 | 134 | 5670 | 9.17 | 97.55 | 9.28 | ≤ 11.00 | Pass |
| 11ac-VHT20 | 6.5 | 52 | 5260 | 10.63 | 98.82 | 10.63 | ≤ 11.00 | Pass |
| 11ac-VHT20 | 6.5 | 60 | 5300 | 10.58 | 98.82 | 10.58 | ≤ 11.00 | Pass |
| 11ac-VHT20 | 6.5 | 64 | 5320 | 10.33 | 98.82 | 10.33 | ≤ 11.00 | Pass |
| 11ac-VHT20 | 6.5 | 100 | 5500 | 10.48 | 98.82 | 10.48 | ≤ 11.00 | Pass |
| 11ac-VHT20 | 6.5 | 116 | 5580 | 10.06 | 98.82 | 10.06 | ≤ 11.00 | Pass |
| 11ac-VHT20 | 6.5 | 120 | 5600 | 10.29 | 98.82 | 10.29 | ≤ 11.00 | Pass |
| 11ac-VHT20 | 6.5 | 140 | 5700 | 10.40 | 98.82 | 10.40 | ≤ 11.00 | Pass |
| 11ac-VHT20 | 6.5 | 144 | 5720 | 10.42 | 98.82 | 10.42 | ≤ 11.00 | Pass |
| 11ac-VHT40 | 13.5 | 54 | 5270 | 8.42 | 97.40 | 8.53 | ≤ 11.00 | Pass |
| 11ac-VHT40 | 13.5 | 62 | 5310 | 9.14 | 97.40 | 9.25 | ≤ 11.00 | Pass |
| 11ac-VHT40 | 13.5 | 102 | 5510 | 9.14 | 97.40 | 9.25 | ≤ 11.00 | Pass |
| 11ac-VHT40 | 13.5 | 110 | 5550 | 8.76 | 97.40 | 8.87 | ≤ 11.00 | Pass |
| 11ac-VHT40 | 13.5 | 118 | 5590 | 9.10 | 97.40 | 9.21 | ≤ 11.00 | Pass |

| | | | | | | | | |
|------------|------|-----|------|------|-------|------|---------|------|
| 11ac-VHT40 | 13.5 | 134 | 5670 | 9.10 | 97.40 | 9.21 | ≤ 11.00 | Pass |
| 11ac-VHT40 | 13.5 | 142 | 5710 | 9.31 | 97.40 | 9.42 | ≤ 11.00 | Pass |
| 11ac-VHT80 | 29.3 | 58 | 5290 | 5.10 | 94.30 | 5.35 | ≤ 11.00 | Pass |
| 11ac-VHT80 | 29.3 | 106 | 5530 | 6.26 | 94.30 | 6.51 | ≤ 11.00 | Pass |
| 11ac-VHT80 | 29.3 | 122 | 5610 | 6.02 | 94.30 | 6.27 | ≤ 11.00 | Pass |
| 11ac-VHT80 | 29.3 | 138 | 5690 | 5.66 | 94.30 | 5.91 | ≤ 11.00 | Pass |

Note 1: When EUT duty cycle < 98%, the total PSD = Ant 3 PSD (dBm/MHz) + 10*log(1/duty cycle).

Note 2: When EUT duty cycle > 98%, the total PSD = Ant 3 PSD (dBm/MHz).

| Test Mode | Data Rate (Mbps) | Channel No. | Freq. (MHz) | Ant 0 PSD (dBm/MHz) | Ant 1 PSD (dBm/MHz) | Ant 2 PSD (dBm/MHz) | Ant 3 PSD (dBm/MHz) | Duty Cycle (%) | Total PSD (dBm/MHz) | PSD Limit (dBm/MHz) | Result |
|------------|------------------|-------------|-------------|---------------------|---------------------|---------------------|---------------------|----------------|---------------------|---------------------|--------|
| 11a | 6 | 52 | 5260 | -0.93 | -0.89 | -0.75 | -0.73 | 97.18 | 5.32 | ≤ 7.94 | Pass |
| 11a | 6 | 60 | 5300 | -0.57 | -1.56 | -0.66 | -1.04 | 97.18 | 5.20 | ≤ 7.94 | Pass |
| 11a | 6 | 64 | 5320 | -0.30 | -2.04 | -0.68 | -1.15 | 97.18 | 5.15 | ≤ 7.94 | Pass |
| 11a | 6 | 100 | 5500 | -0.96 | -1.31 | -1.56 | -1.56 | 97.18 | 4.80 | ≤ 7.36 | Pass |
| 11a | 6 | 116 | 5580 | -1.21 | -1.37 | -1.54 | -0.81 | 97.18 | 4.92 | ≤ 7.36 | Pass |
| 11a | 6 | 120 | 5600 | -0.79 | -1.09 | -1.42 | -0.83 | 97.18 | 5.12 | ≤ 7.36 | Pass |
| 11a | 6 | 140 | 5700 | -0.52 | -1.03 | -0.85 | -0.91 | 97.18 | 5.32 | ≤ 7.36 | Pass |
| 11n-HT20 | 26 | 52 | 5260 | -0.86 | -0.76 | -0.64 | -0.64 | 98.81 | 5.30 | ≤ 7.94 | Pass |
| 11n-HT20 | 26 | 60 | 5300 | -0.53 | -0.54 | -0.36 | -0.56 | 98.81 | 5.45 | ≤ 7.94 | Pass |
| 11n-HT20 | 26 | 64 | 5320 | -0.16 | -1.05 | -0.58 | -0.88 | 98.81 | 5.37 | ≤ 7.94 | Pass |
| 11n-HT20 | 26 | 100 | 5500 | -1.31 | -0.78 | -0.67 | -0.44 | 98.81 | 5.23 | ≤ 7.36 | Pass |
| 11n-HT20 | 26 | 116 | 5580 | -0.96 | -1.30 | -1.91 | -0.55 | 98.81 | 4.87 | ≤ 7.36 | Pass |
| 11n-HT20 | 26 | 120 | 5600 | -1.32 | -0.84 | -0.68 | -0.81 | 98.81 | 5.12 | ≤ 7.36 | Pass |
| 11n-HT20 | 26 | 140 | 5700 | -1.14 | -0.85 | -0.70 | -0.81 | 98.81 | 5.15 | ≤ 7.36 | Pass |
| 11n-HT40 | 54 | 54 | 5270 | -3.59 | -3.44 | -3.83 | -3.59 | 97.55 | 2.41 | ≤ 7.94 | Pass |
| 11n-HT40 | 54 | 62 | 5310 | -3.42 | -3.10 | -3.42 | -3.55 | 97.55 | 2.65 | ≤ 7.94 | Pass |
| 11n-HT40 | 54 | 102 | 5510 | -3.20 | -2.65 | -2.77 | -2.59 | 97.55 | 3.23 | ≤ 7.36 | Pass |
| 11n-HT40 | 54 | 110 | 5550 | -2.49 | -3.20 | -3.48 | -2.65 | 97.55 | 3.19 | ≤ 7.36 | Pass |
| 11n-HT40 | 54 | 118 | 5590 | -3.29 | -2.98 | -2.89 | -3.09 | 97.55 | 2.96 | ≤ 7.36 | Pass |
| 11n-HT40 | 54 | 134 | 5670 | -2.35 | -1.78 | -2.01 | -2.06 | 97.55 | 3.98 | ≤ 7.36 | Pass |
| 11ac-VHT20 | 26 | 52 | 5260 | -0.62 | -0.58 | -0.66 | -0.59 | 98.82 | 5.41 | ≤ 7.94 | Pass |
| 11ac-VHT20 | 26 | 60 | 5300 | -0.08 | -1.45 | -0.76 | -0.81 | 98.82 | 5.27 | ≤ 7.94 | Pass |
| 11ac-VHT20 | 26 | 64 | 5320 | -0.78 | -0.70 | -0.85 | -0.65 | 98.82 | 5.28 | ≤ 7.94 | Pass |
| 11ac-VHT20 | 26 | 100 | 5500 | -0.79 | -1.04 | -1.32 | -1.17 | 98.82 | 4.95 | ≤ 7.36 | Pass |
| 11ac-VHT20 | 26 | 116 | 5580 | -0.19 | -1.17 | -1.53 | -0.28 | 98.82 | 5.27 | ≤ 7.36 | Pass |
| 11ac-VHT20 | 26 | 120 | 5600 | -0.33 | -1.06 | -0.70 | -0.98 | 98.82 | 5.26 | ≤ 7.36 | Pass |
| 11ac-VHT20 | 26 | 140 | 5700 | -0.54 | -0.62 | -0.73 | -0.90 | 98.82 | 5.33 | ≤ 7.36 | Pass |
| 11ac-VHT20 | 26 | 144 | 5720 | -0.26 | -1.10 | -0.88 | -0.82 | 98.82 | 5.27 | ≤ 7.36 | Pass |
| 11ac-VHT40 | 54 | 54 | 5270 | -3.39 | -3.42 | -3.41 | -3.70 | 97.40 | 2.66 | ≤ 7.94 | Pass |
| 11ac-VHT40 | 54 | 62 | 5310 | -3.27 | -3.27 | -3.37 | -3.61 | 97.40 | 2.76 | ≤ 7.94 | Pass |
| 11ac-VHT40 | 54 | 102 | 5510 | -3.19 | -2.70 | -2.49 | -2.31 | 97.40 | 3.48 | ≤ 7.36 | Pass |
| 11ac-VHT40 | 54 | 110 | 5550 | -2.45 | -3.23 | -3.46 | -2.77 | 97.40 | 3.18 | ≤ 7.36 | Pass |
| 11ac-VHT40 | 54 | 118 | 5590 | -3.64 | -2.83 | -2.71 | -2.98 | 97.40 | 3.11 | ≤ 7.36 | Pass |

| | | | | | | | | | | | |
|------------|-------|-----|------|-------|-------|-------|-------|-------|-------|--------|------|
| 11ac-VHT40 | 54 | 134 | 5670 | -2.22 | -1.95 | -1.80 | -2.55 | 97.40 | 4.01 | ≤ 7.36 | Pass |
| 11ac-VHT40 | 54 | 142 | 5710 | -2.16 | -1.85 | -1.87 | -2.12 | 97.40 | 4.14 | ≤ 7.36 | Pass |
| 11ac-VHT80 | 117.2 | 58 | 5290 | -6.81 | -6.73 | -7.16 | -6.89 | 94.30 | -0.62 | ≤ 7.94 | Pass |
| 11ac-VHT80 | 117.2 | 106 | 5530 | -6.39 | -6.17 | -6.09 | -5.77 | 94.30 | 0.18 | ≤ 7.36 | Pass |
| 11ac-VHT80 | 117.2 | 122 | 5610 | -6.03 | -5.98 | -5.68 | -5.50 | 94.30 | 0.49 | ≤ 7.36 | Pass |
| 11ac-VHT80 | 117.2 | 138 | 5690 | -5.73 | -5.39 | -5.59 | -5.64 | 94.30 | 0.69 | ≤ 7.36 | Pass |

Note 1: When EUT duty cycle < 98%, the total PSD = $10 \cdot \log\{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\} + 10 \cdot \log(1/\text{duty cycle})$.

Note 2: When EUT duty cycle > 98%, the total PSD = $10 \cdot \log\{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}$.

For FCC 802.11ac-VHT80 + 80 Mode Test Data

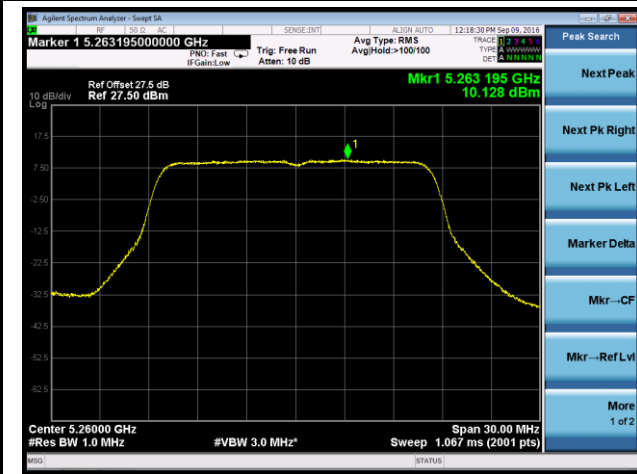
| Test Mode | Data Rate (Mbps) | Channel No. | Freq. (MHz) | Ant 0 PSD (dBm/MHz) | Ant 1 PSD (dBm/MHz) | Ant 2 PSD (dBm/MHz) | Ant 3 PSD (dBm/MHz) | Duty Cycle (%) | Constant Factor | Total PSD (dBm/MHz) | PSD Limit (dBm/MHz) | Result |
|-------------------|------------------|-------------|-------------|---------------------|---------------------|---------------------|---------------------|----------------|-----------------|---------------------|---------------------|--------|
| 11ac-VHT 80+80 | 58.6 | 42 | 5210 | 0.33 | 0.24 | -- | -- | 94.30 | -- | 3.55 | ≤ 16.42 | Pass |
| | 58.6 | 58 | 5290 | -- | -- | -1.29 | -0.75 | 94.30 | -- | 2.25 | ≤ 10.95 | Pass |
| 11ac-VHT 80+80 | 58.6 | 42 | 5210 | 2.04 | 2.09 | -- | -- | 94.30 | -- | 5.33 | ≤ 16.42 | Pass |
| | 58.6 | 106 | 5530 | -- | -- | 1.44 | 1.43 | 94.30 | -- | 4.70 | ≤ 10.37 | Pass |
| 11ac-VHT 80+80 | 58.6 | 42 | 5210 | 2.50 | 2.33 | -- | -- | 94.30 | -- | 5.68 | ≤ 16.42 | Pass |
| | 58.6 | 122 | 5610 | -- | -- | 2.34 | 1.81 | 94.30 | -- | 5.35 | ≤ 10.37 | Pass |
| 11ac-VHT 80+80 | 58.6 | 42 | 5210 | 2.08 | 2.17 | -- | -- | 94.30 | -- | 5.39 | ≤ 16.42 | Pass |
| | 58.6 | 138 | 5690 | -- | -- | 2.18 | 1.35 | 94.30 | -- | 5.05 | ≤ 10.37 | Pass |
| 11ac-VHT 80+80 | 58.6 | 58 | 5290 | -0.15 | -0.71 | -- | -- | 94.30 | -- | 2.84 | ≤ 10.95 | Pass |
| | 58.6 | 106 | 5530 | -- | -- | -1.20 | -0.95 | 94.30 | -- | 2.19 | ≤ 10.37 | Pass |
| 11ac-VHT 80+80 | 58.6 | 58 | 5290 | 0.05 | -0.64 | -- | -- | 94.30 | -- | 2.98 | ≤ 10.95 | Pass |
| | 58.6 | 122 | 5610 | -- | -- | -0.88 | -0.97 | 94.30 | -- | 2.34 | ≤ 10.37 | Pass |
| 11ac-VHT 80+80 | 58.6 | 58 | 5290 | -0.02 | -0.78 | -- | -- | 94.30 | -- | 2.88 | ≤ 10.95 | Pass |
| | 58.6 | 138 | 5690 | -- | -- | -0.68 | -1.14 | 94.30 | -- | 2.36 | ≤ 10.37 | Pass |
| 11ac-VHT 80+80 | 58.6 | 58 | 5290 | 0.19 | -0.67 | -- | -- | 94.30 | -- | 3.05 | ≤ 10.95 | Pass |
| | 58.6 | 155 | 5775 | -- | -- | -10.17 | -10.48 | 94.30 | 6.99 | -0.07 | ≤ 28.66 | Pass |
| 11ac-VHT 80+80 | 58.6 | 106 | 5530 | 1.47 | 1.28 | -- | -- | 94.30 | -- | 4.64 | ≤ 10.37 | Pass |
| | 58.6 | 122 | 5610 | -- | -- | 0.48 | 0.94 | 94.30 | -- | 3.98 | ≤ 10.37 | Pass |
| 11ac-VHT 80+80 | 58.6 | 106 | 5530 | 1.91 | 1.61 | -- | -- | 94.30 | -- | 5.03 | ≤ 10.37 | Pass |
| | 58.6 | 138 | 5690 | -- | -- | 1.30 | 0.64 | 94.30 | -- | 4.25 | ≤ 10.37 | Pass |
| 11ac-VHT 80+80 | 58.6 | 106 | 5530 | 1.43 | 1.29 | -- | -- | 94.30 | -- | 4.63 | ≤ 10.37 | Pass |
| | 58.6 | 155 | 5775 | -- | -- | -8.03 | -8.92 | 94.30 | 6.99 | 1.80 | ≤ 28.66 | Pass |
| 11ac-VHT 80+80 | 58.6 | 122 | 5610 | 1.88 | 1.53 | -- | -- | 94.30 | -- | 4.97 | ≤ 10.37 | Pass |
| | 58.6 | 138 | 5690 | -- | -- | 2.15 | 1.63 | 94.30 | -- | 5.16 | ≤ 10.37 | Pass |
| 11ac-VHT 80+80 | 58.6 | 122 | 5610 | 1.87 | 1.58 | -- | -- | 94.30 | -- | 4.99 | ≤ 10.37 | Pass |
| | 58.6 | 155 | 5775 | -- | -- | -7.49 | -8.38 | 94.30 | 6.99 | 2.34 | ≤ 28.66 | Pass |
| 11ac-VHT 80+80 | 58.6 | 138 | 5690 | 2.18 | 1.66 | -- | -- | 94.30 | -- | 5.19 | ≤ 10.37 | Pass |
| | 58.6 | 155 | 5775 | -- | -- | -7.40 | -8.35 | 94.30 | 6.99 | 2.41 | ≤ 28.66 | Pass |

Note 1: Total PSD (dBm/MHz) = $10 \cdot \log\{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\} + 10 \cdot \log(1/\text{duty cycle}) + \text{Constant Factor}$.

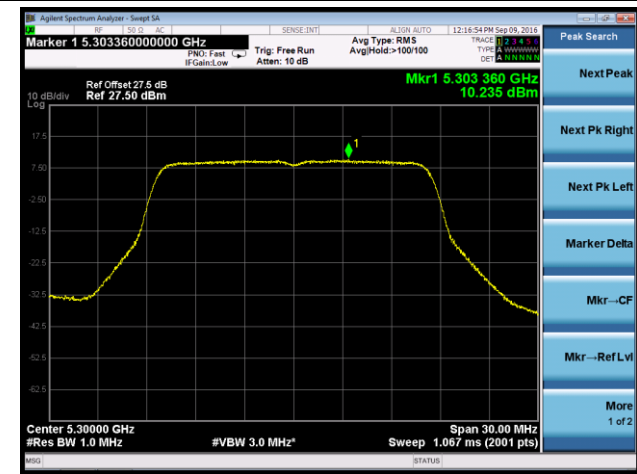
Note 2: Total PSD (dBm/MHz) = $10 \cdot \log\{10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\} + 10 \cdot \log(1/\text{duty cycle}) + \text{Constant Factor}$.

802.11a Power Spectral Density - Ant 0

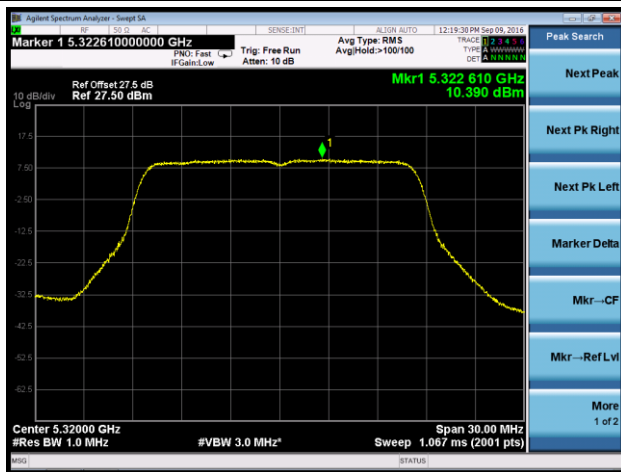
Channel 52 (5260MHz)



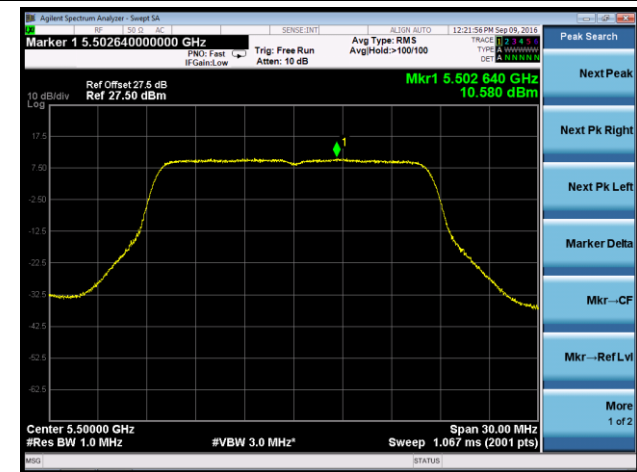
Channel 60 (5300MHz)



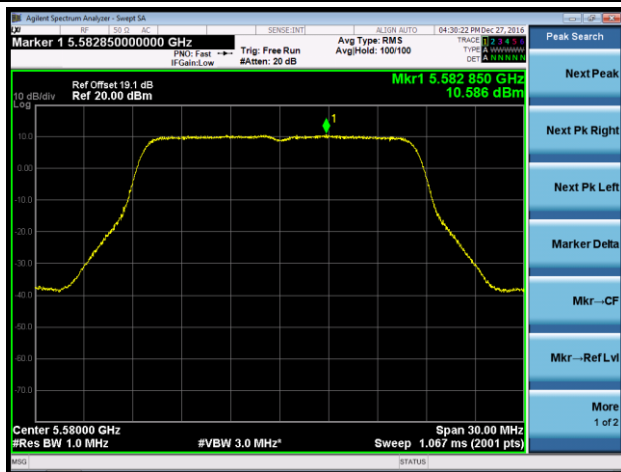
Channel 64 (5320MHz)



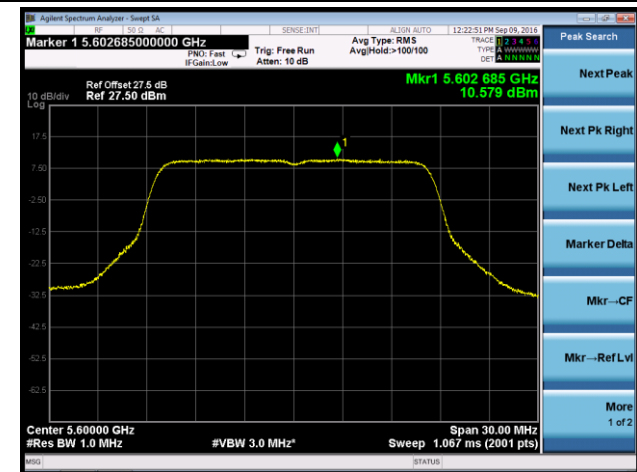
Channel 100 (5500MHz)



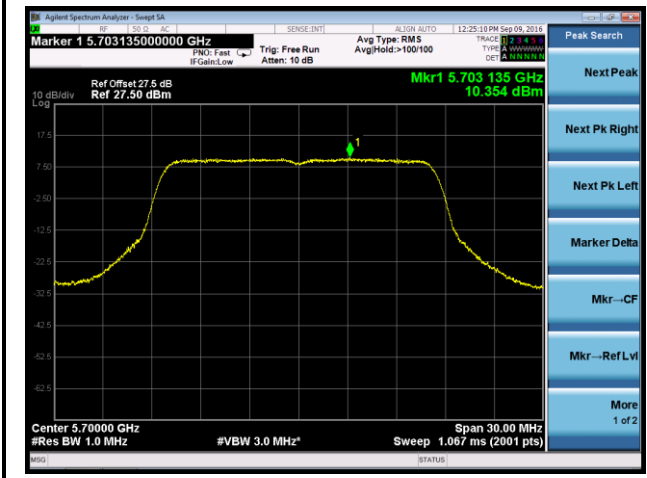
Channel 118 (5580MHz)



Channel 120 (5600MHz)

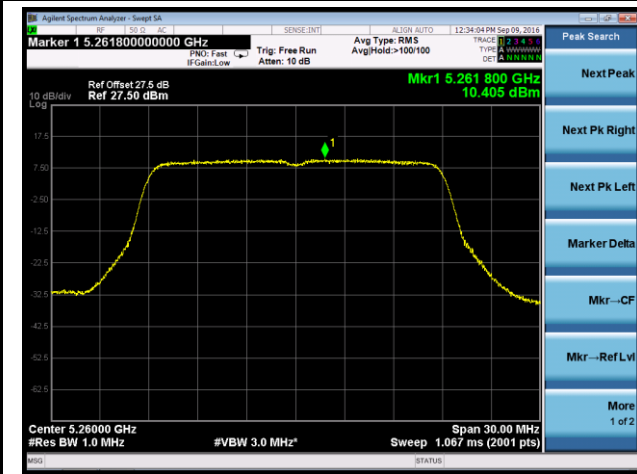


Channel 140 (5700MHz)

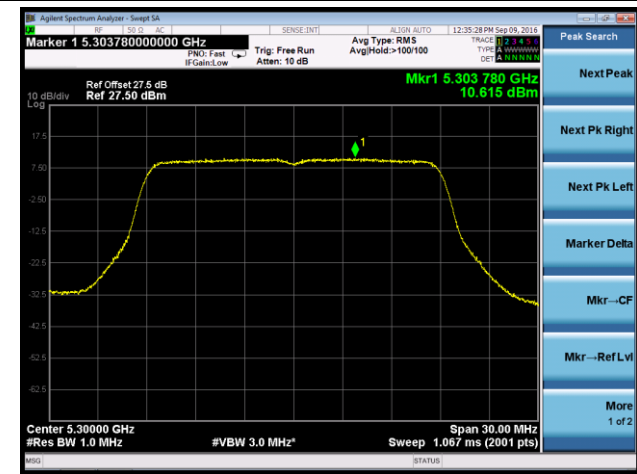


802.11n-HT20 Power Spectral Density - Ant 0

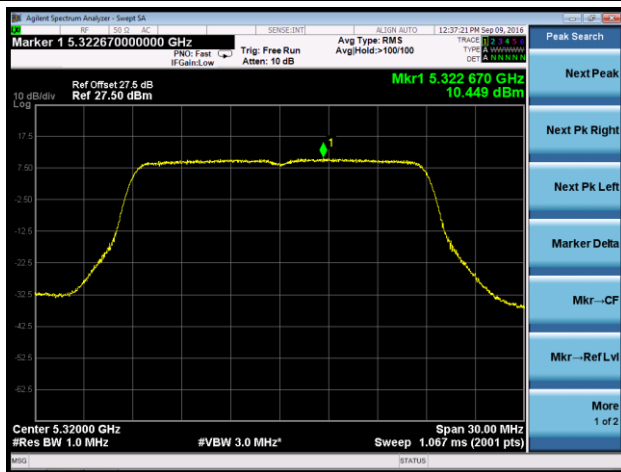
Channel 52 (5260MHz)



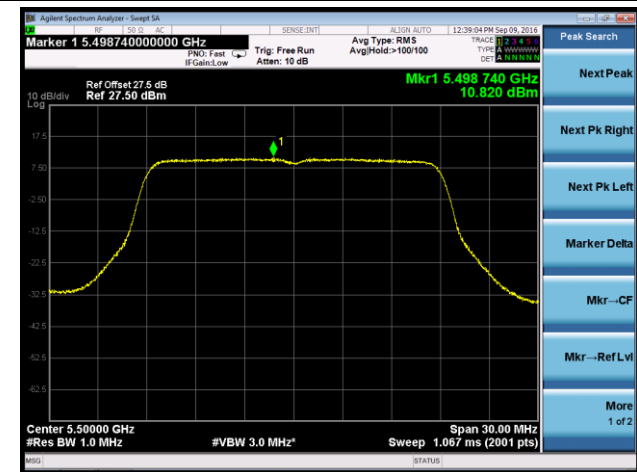
Channel 60 (5300MHz)



Channel 64 (5320MHz)



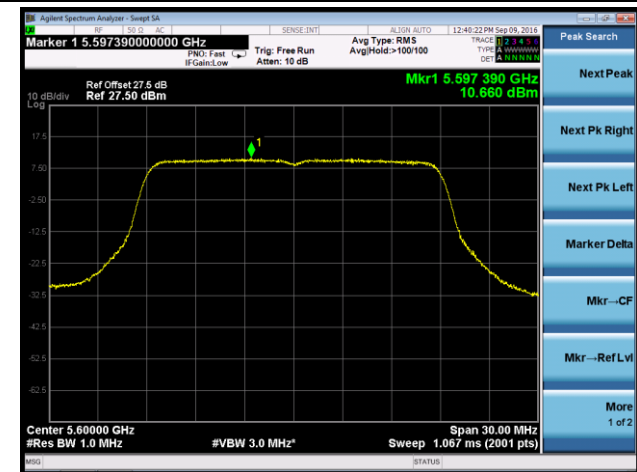
Channel 100 (5500MHz)

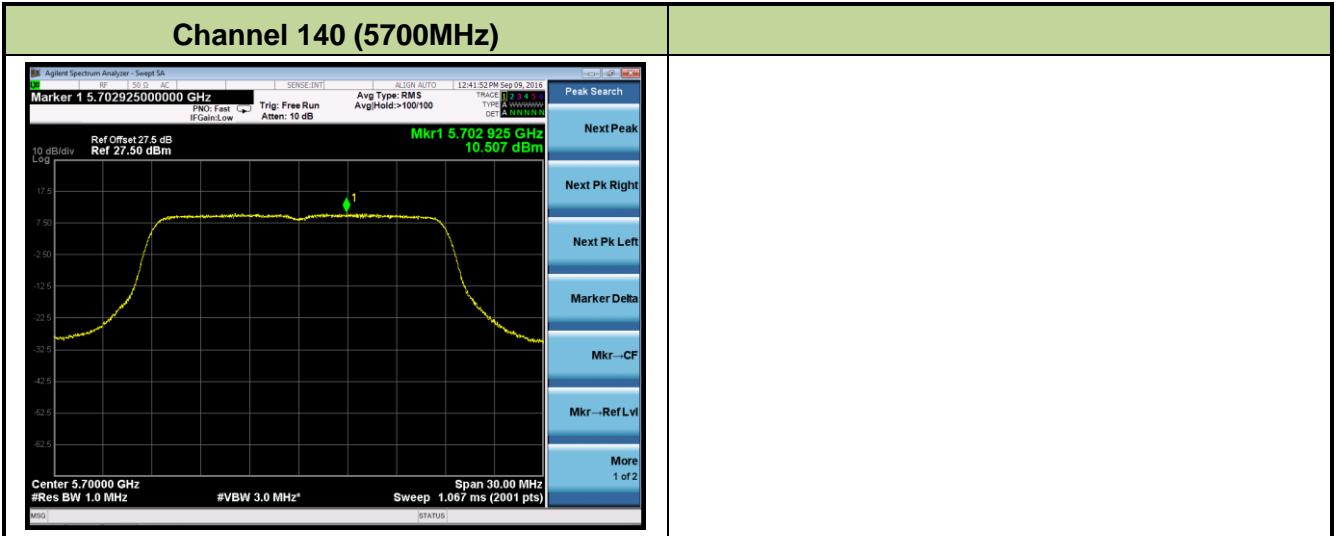


Channel 118 (5580MHz)



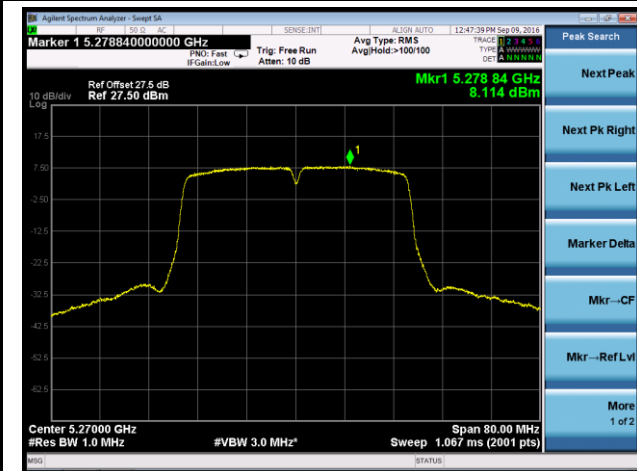
Channel 120 (5600MHz)



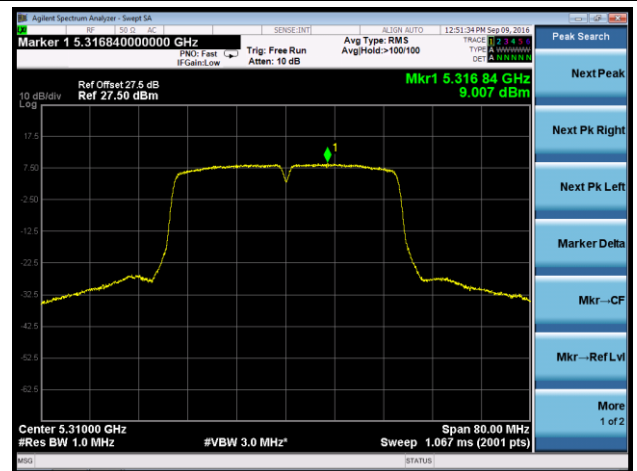


802.11n-HT40 Power Spectral Density - Ant 0

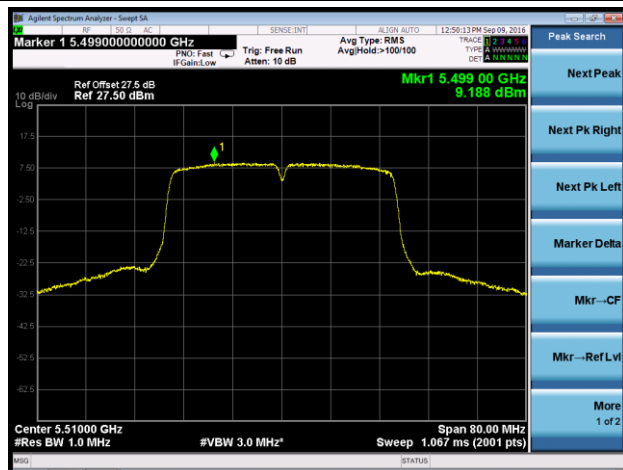
Channel 54 (5270MHz)



Channel 62 (5310MHz)



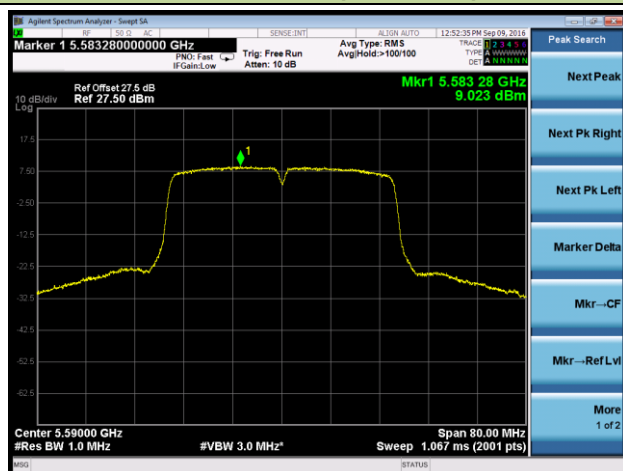
Channel 102 (5510MHz)



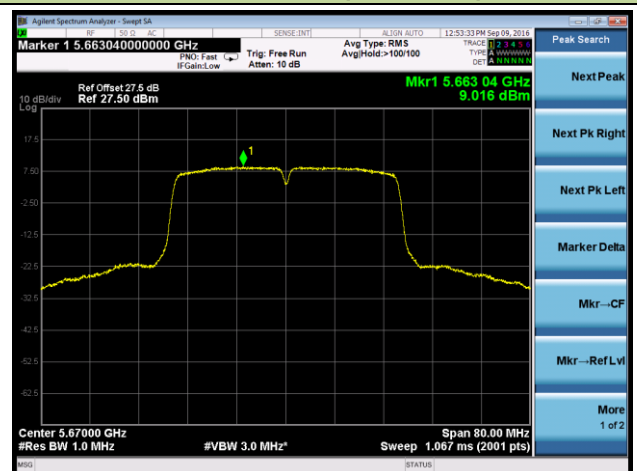
Channel 110 (5550MHz)

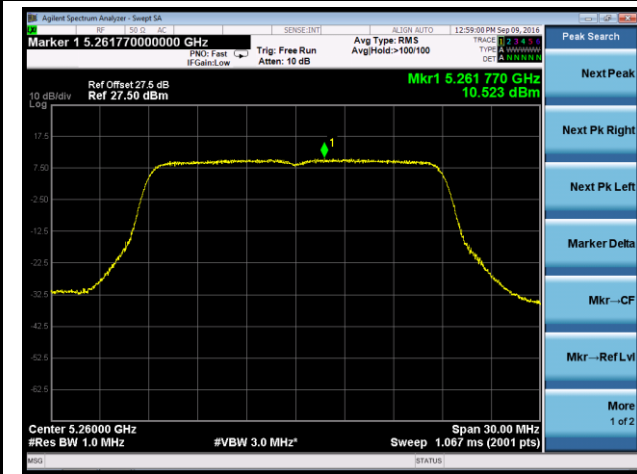
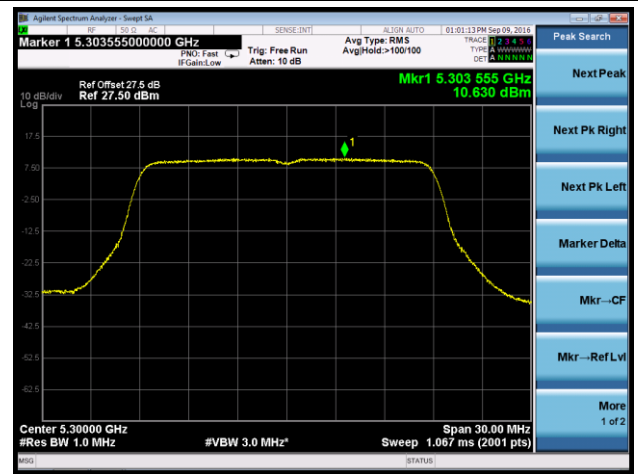
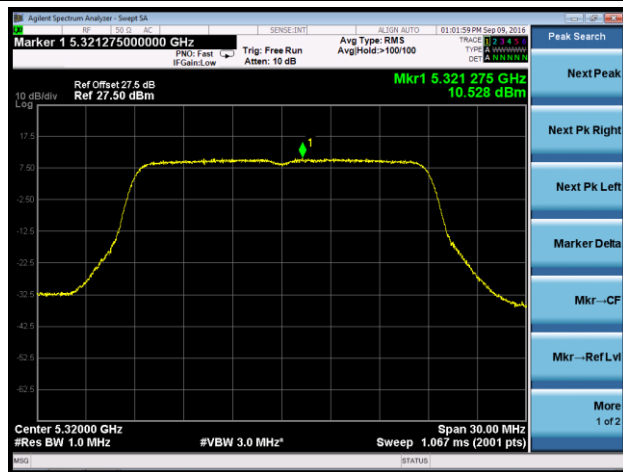
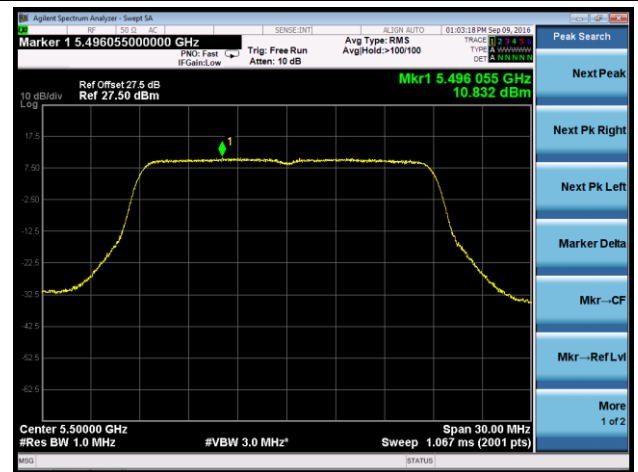
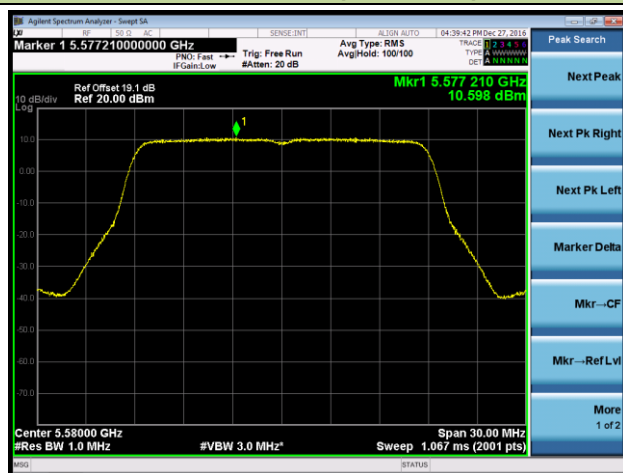
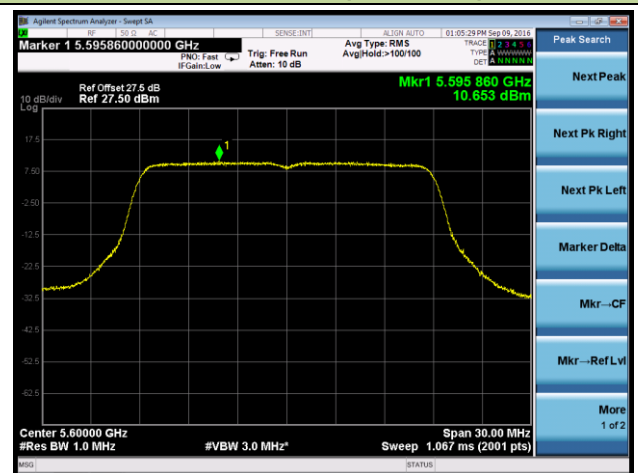


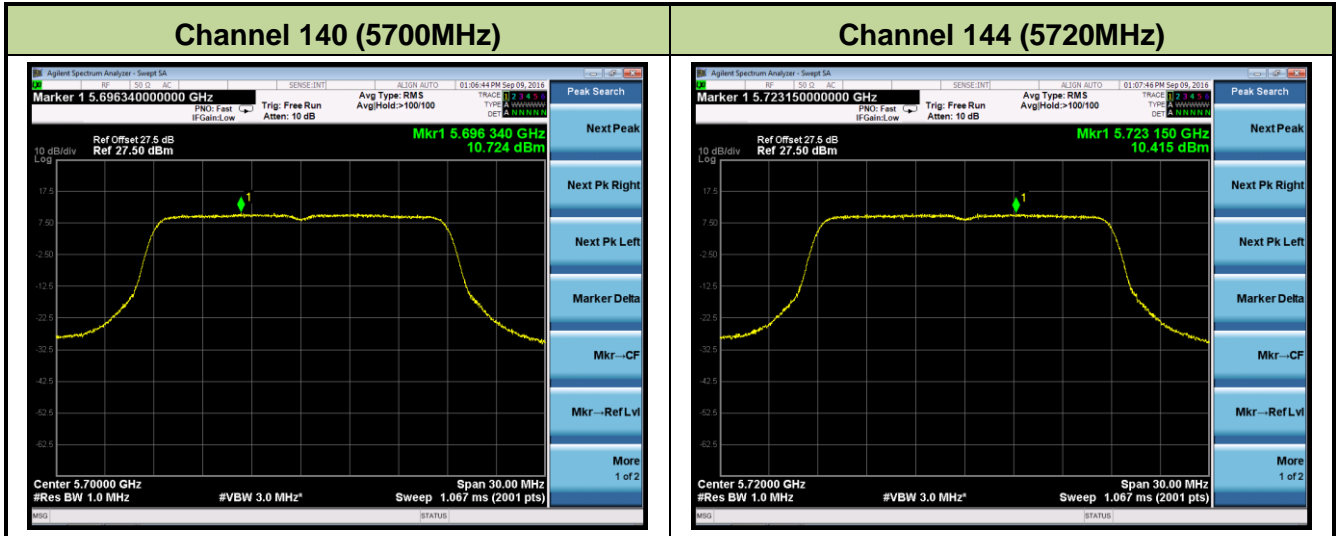
Channel 118 (5590MHz)

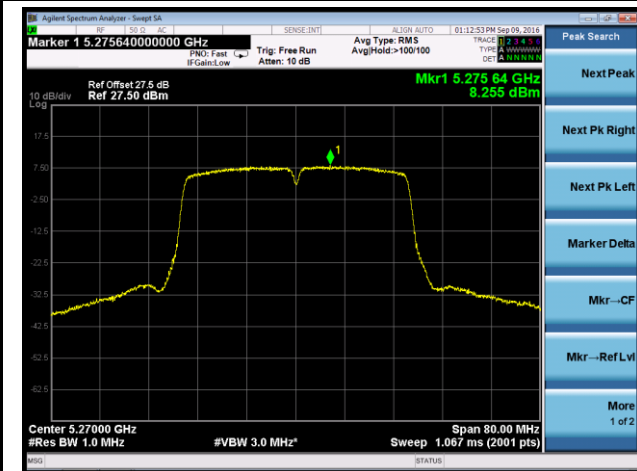
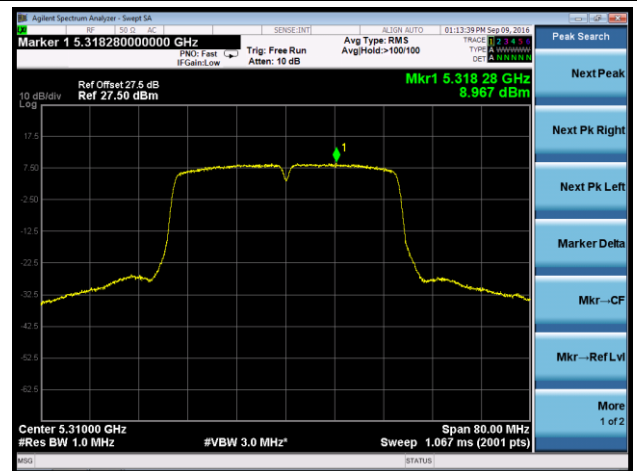
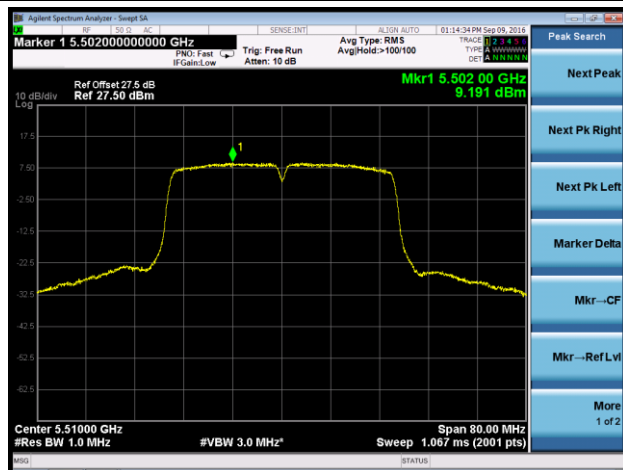


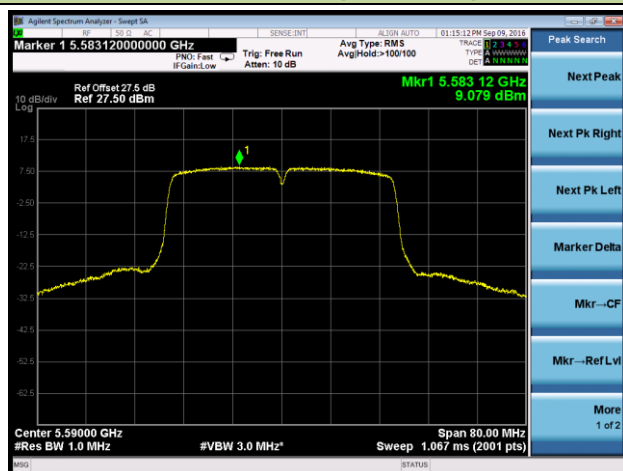
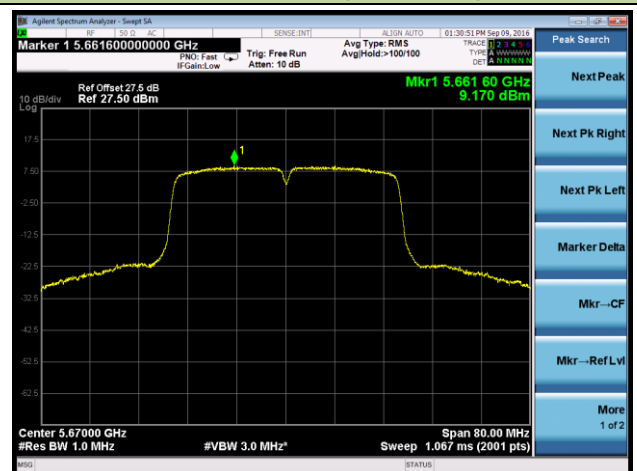
Channel 134 (5670MHz)



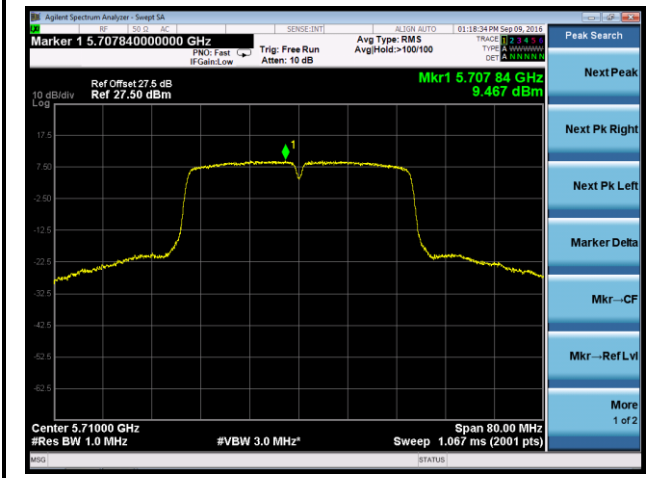
802.11ac-VHT20 Power Spectral Density - Ant 0
Channel 52 (5260MHz)

Channel 60 (5300MHz)

Channel 64 (5320MHz)

Channel 100 (5500MHz)

Channel 118 (5580MHz)

Channel 120 (5600MHz)




802.11ac-VHT40 Power Spectral Density - Ant 0
Channel 54 (5270MHz)

Channel 62 (5310MHz)

Channel 102 (5510MHz)

Channel 110 (5550MHz)

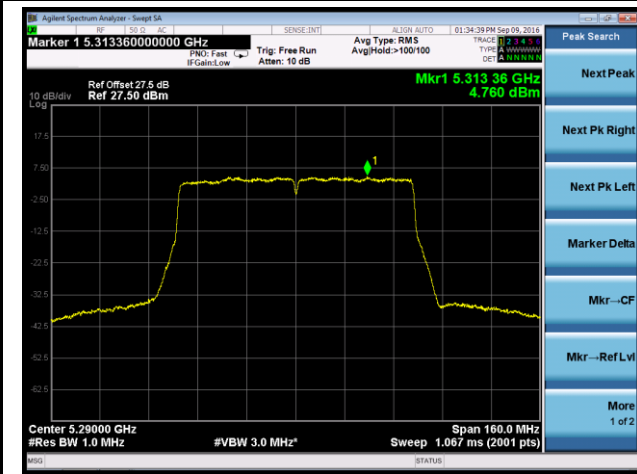
Channel 118 (5590MHz)

Channel 134 (5670MHz)


Channel 142 (5710MHz)

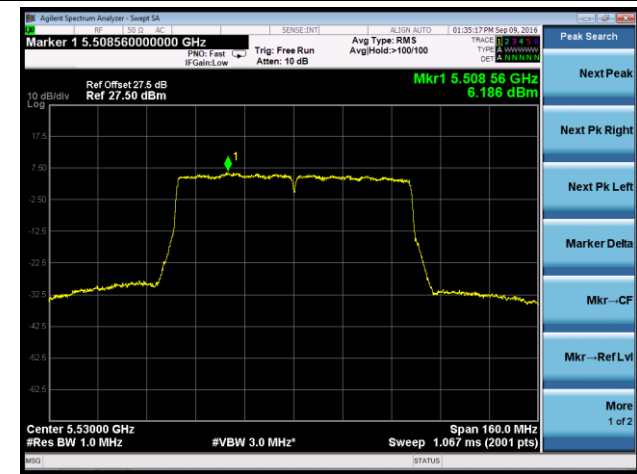


802.11ac-VHT80 Power Spectral Density - Ant 0

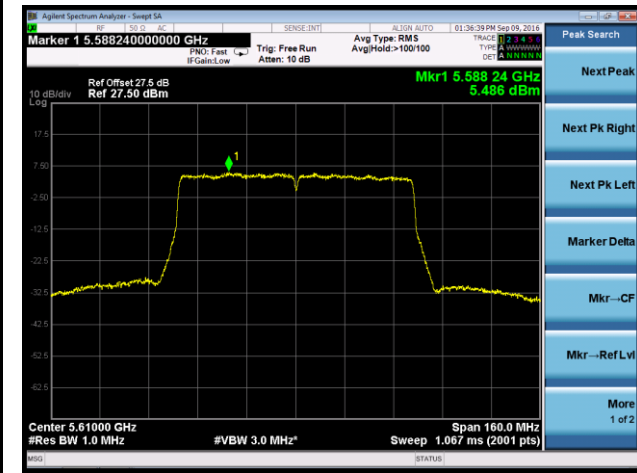
Channel 58 (5290MHz)



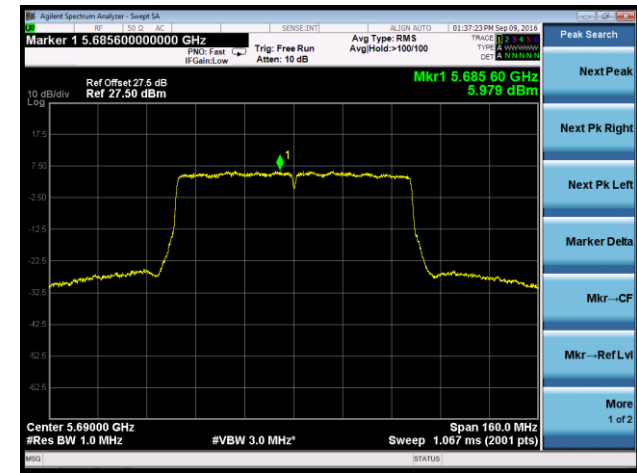
Channel 106 (5530MHz)



Channel 122 (5610MHz)

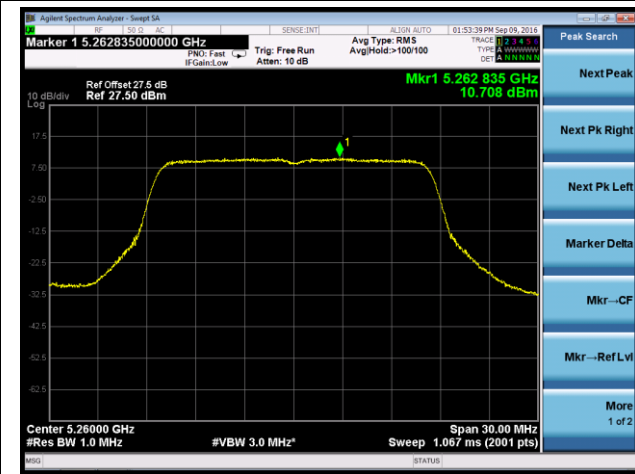


Channel 138 (5690MHz)

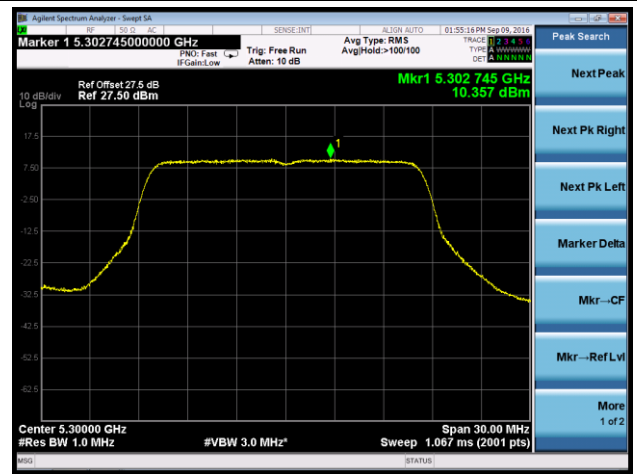


802.11a Power Spectral Density - Ant 1

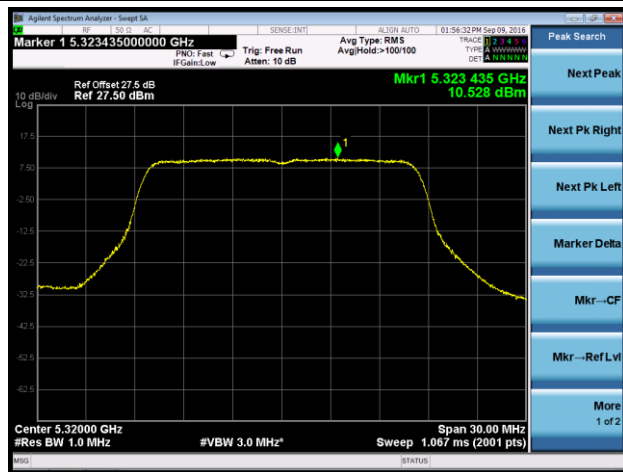
Channel 52 (5260MHz)



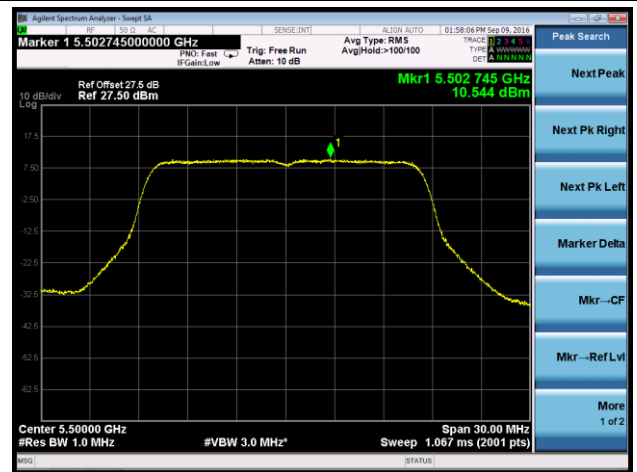
Channel 60 (5300MHz)



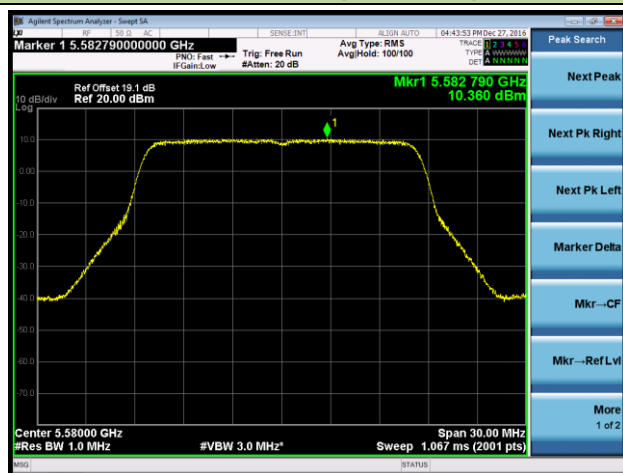
Channel 64 (5320MHz)



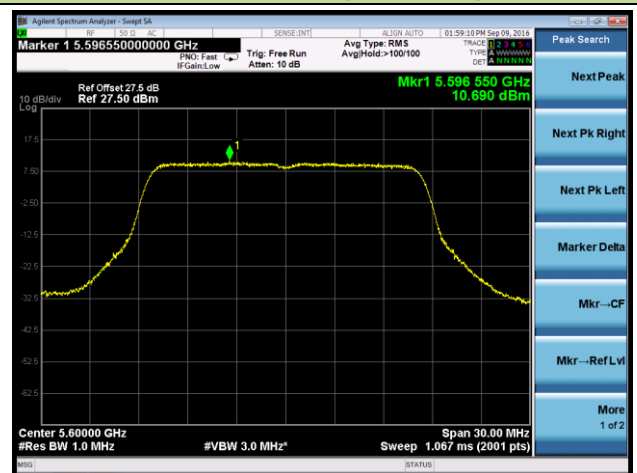
Channel 100 (5500MHz)



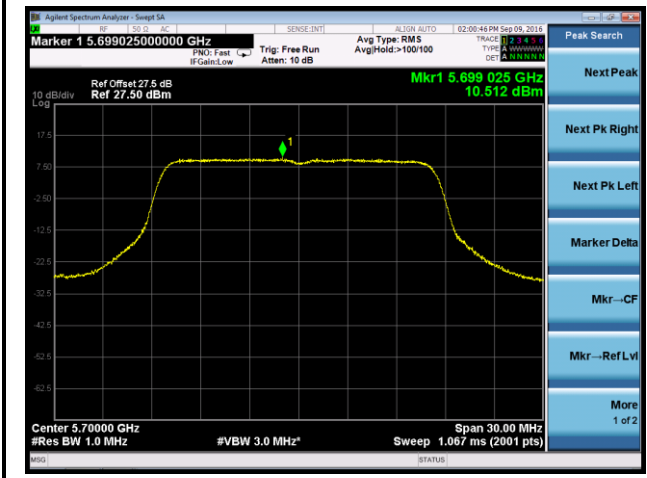
Channel 118 (5580MHz)



Channel 120 (5600MHz)

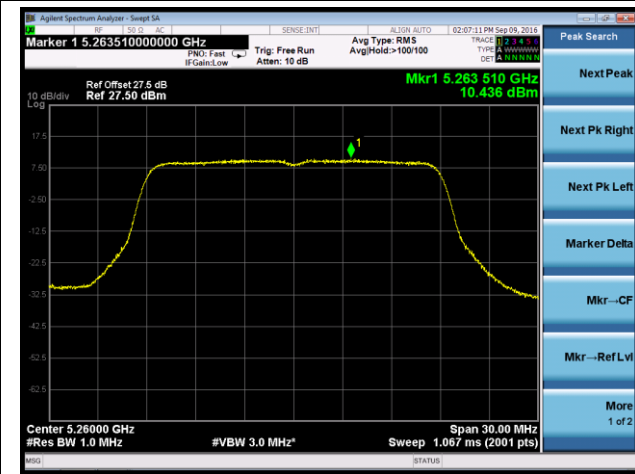


Channel 140 (5700MHz)

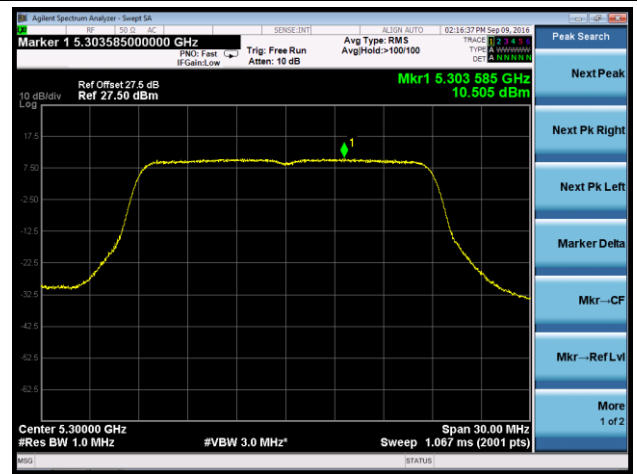


802.11n-HT20 Power Spectral Density - Ant 1

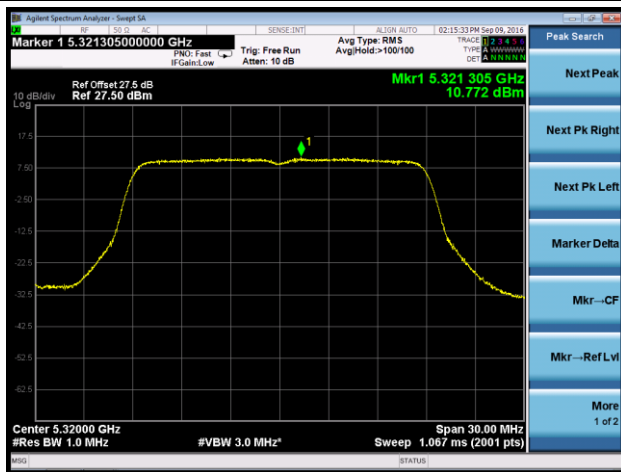
Channel 52 (5260MHz)



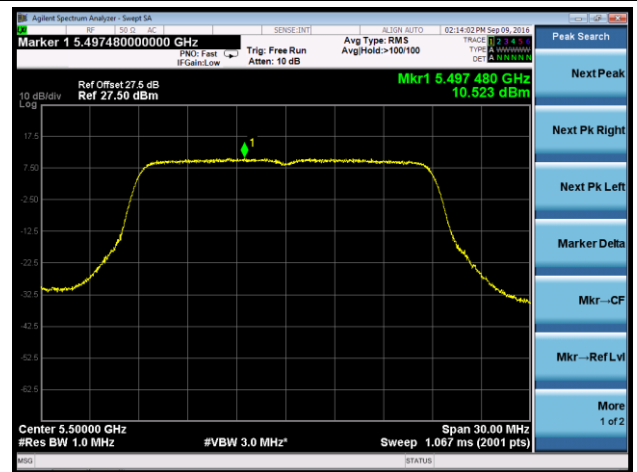
Channel 60 (5300MHz)



Channel 64 (5320MHz)



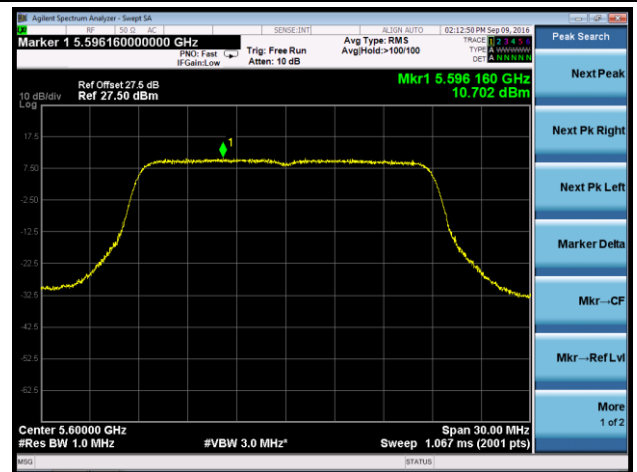
Channel 100 (5500MHz)



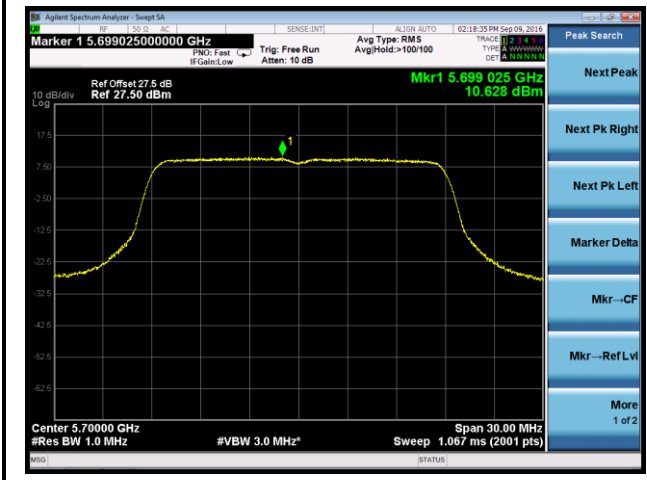
Channel 118 (5580MHz)



Channel 120 (5600MHz)

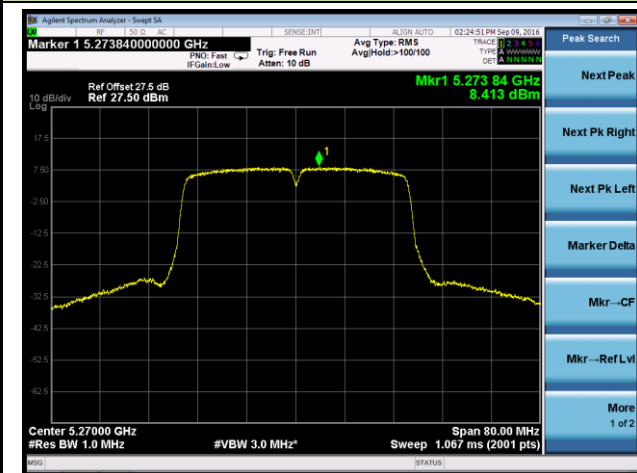


Channel 140 (5700MHz)

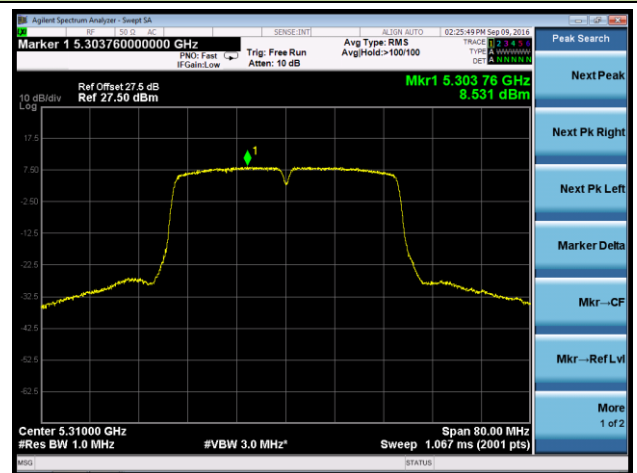


802.11n-HT40 Power Spectral Density - Ant 1

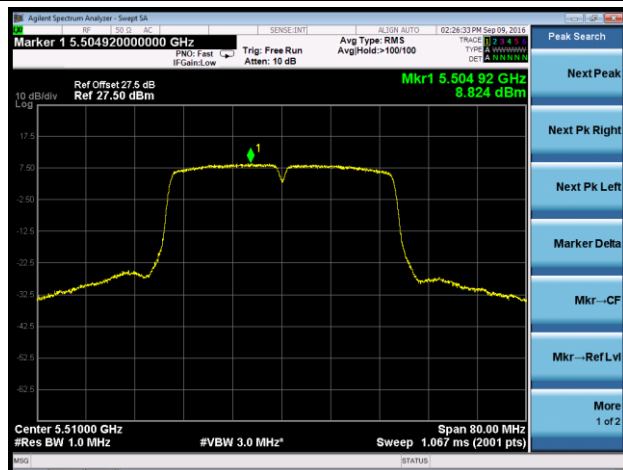
Channel 54 (5270MHz)



Channel 62 (5310MHz)



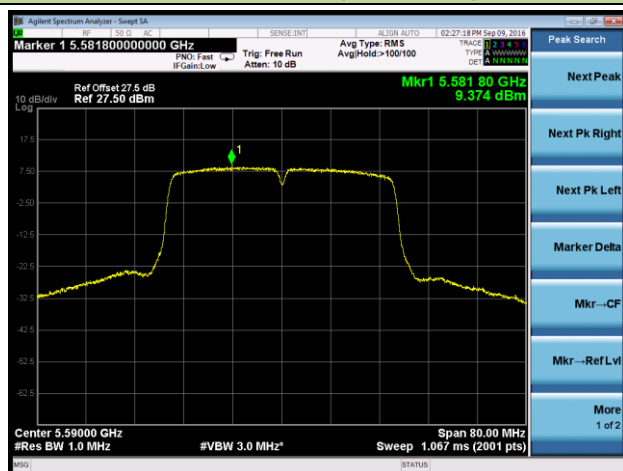
Channel 102 (5510MHz)



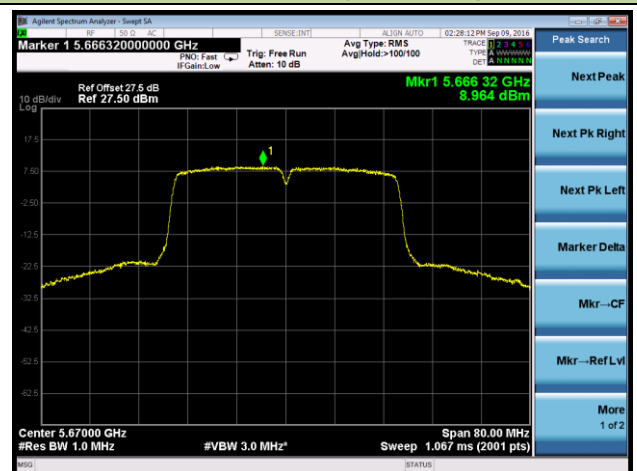
Channel 110 (5550MHz)

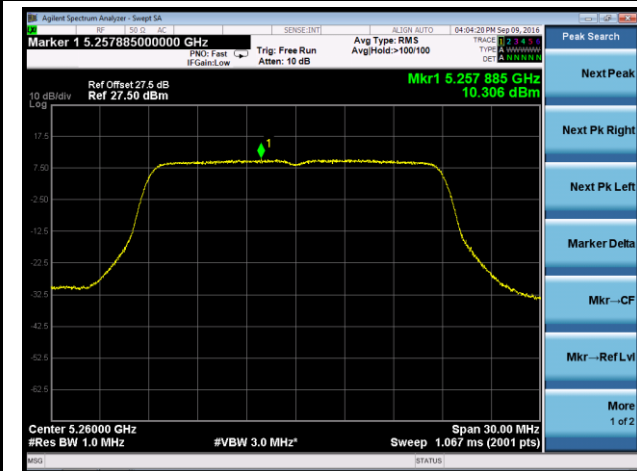
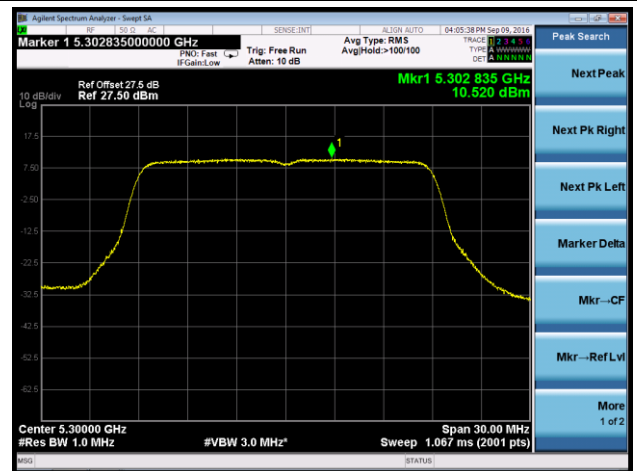
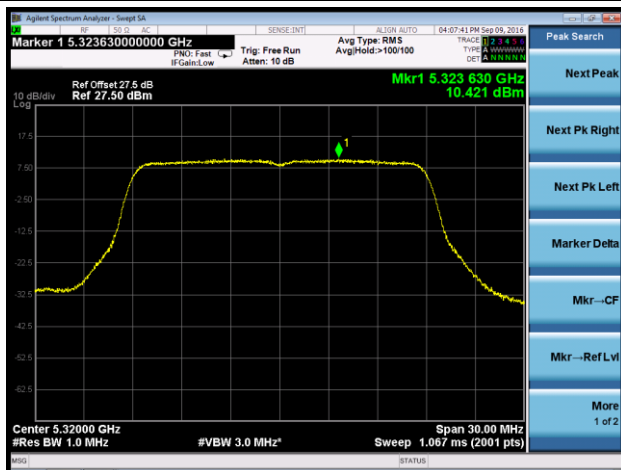
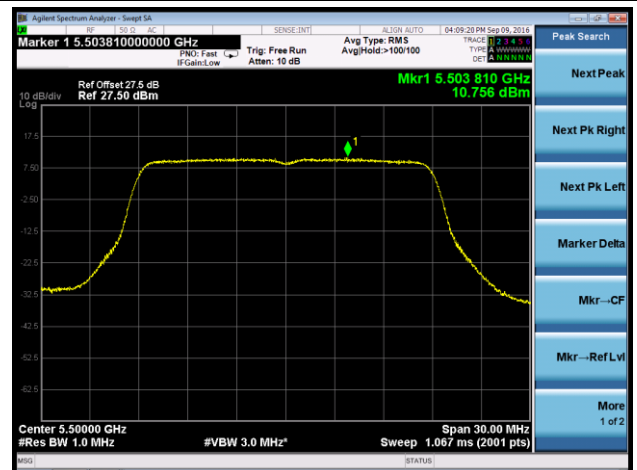
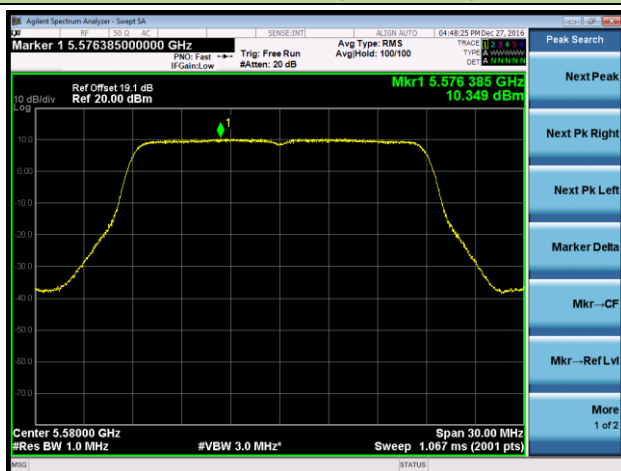


Channel 118 (5590MHz)



Channel 134 (5670MHz)



802.11ac-VHT20 Power Spectral Density - Ant 1
Channel 52 (5260MHz)

Channel 60 (5300MHz)

Channel 64 (5320MHz)

Channel 100 (5500MHz)

Channel 118 (5580MHz)

Channel 120 (5600MHz)
