



A D T

4.3 PEAK TRANSMIT POWER MEASUREMENT

4.3.1 LIMITS OF PEAK TRANSMIT POWER MEASUREMENT

| Frequency Band | Limit |
|------------------|---|
| 5.15 – 5.25GHz | The lesser of 50mW (17dBm) or 4dBm + 10logB |
| 5.25 – 5.35GHz | The lesser of 250mW (24dBm) or 11dBm + 10logB |
| 5.47 – 5.725GHz | The lesser of 250mW (24dBm) or 11dBm + 10logB |
| 5.725 – 5.825GHz | The lesser of 1W (30dBm) or 17dBm + 10logB |

NOTE: Where B is the 26dB emission bandwidth in MHz.

4.3.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED DATE | CALIBRATED UNTIL |
|-----------------------------|-----------|------------|-----------------|------------------|
| ADVANTEST SPECTRUM ANALYZER | U3772 | 160100280 | Sep. 21, 2009 | Sep. 20, 2010 |

NOTE:

- 1.The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.3.3 TEST PROCEDURE

1. The transmitter output was connected to the spectrum analyzer.
2. Set span to encompass the entire emission bandwidth of the signal.
3. Set RBW to 1MHz, VBW to 300kHz.
4. Using the spectrum analyzer's channel power measurement function to measure the output power.

NOTE:

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.

The transmitter output operates continuously therefore Method # 1 is used.

4.3.4 DEVIATION FROM TEST STANDARD

No deviation

4.3.5 TEST SETUP



4.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.



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4.3.7 TEST RESULTS – ANTENNA 4

802.11a OFDM MODULATION:

| | | | |
|------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 6Mbps |
| INPUT POWER | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 26deg.C, 63%RH, 965hPa |
| TESTED BY | Rex Huang | | |

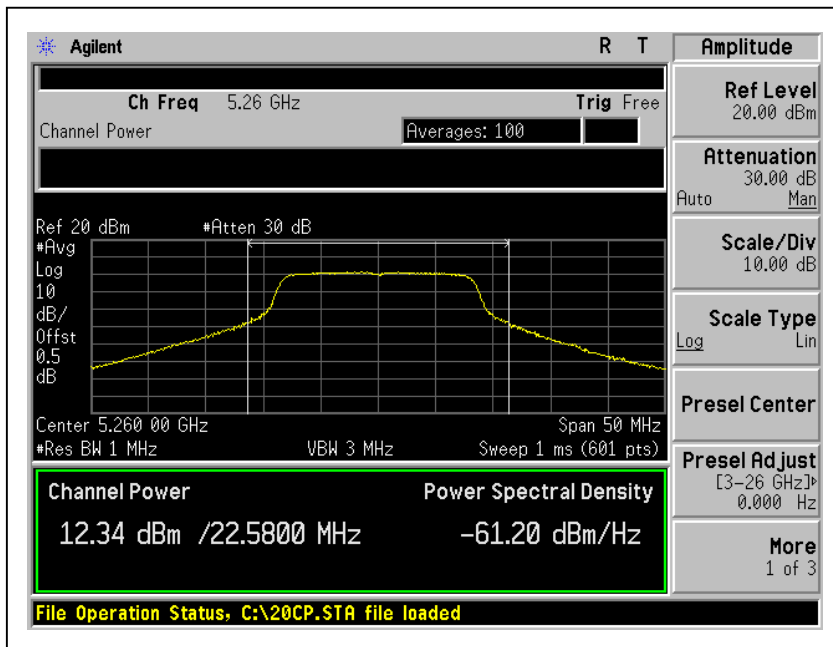
| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER OUTPUT (dBm) | | | PEAK POWER OUTPUT (mW) | | | TOTAL PEAK POWER (dBm) | TOTAL PEAK POWER (mW) | PEAK POWER LIMIT (dBm) | 26dBc Occupied Bandwidth (MHz) | PASS/ FAIL |
|---------|-------------------------|-------------------------|---------|---------|------------------------|---------|---------|------------------------|-----------------------|------------------------|--------------------------------|------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 0 | Chain 1 | Chain 2 | | | | | |
| 5 | 5260 | 12.34 | 10.86 | 11.83 | 17.140 | 12.190 | 15.205 | 16.487 | 44.535 | 24.00 | 22.58 | PASS |
| 7 | 5300 | 12.53 | 11.02 | 11.73 | 17.906 | 12.647 | 14.894 | 16.575 | 45.447 | 24.00 | 22.58 | PASS |
| 8 | 5320 | 11.69 | 11.63 | 11.71 | 14.757 | 14.555 | 14.825 | 16.448 | 44.137 | 24.00 | 23.08 | PASS |
| 9 | 5500 | 11.26 | 12.12 | 11.28 | 13.366 | 16.293 | 13.428 | 16.343 | 43.087 | 24.00 | 22.58 | PASS |
| 14 | 5600 | 11.78 | 11.37 | 11.56 | 15.066 | 13.709 | 14.322 | 16.344 | 43.097 | 24.00 | 22.83 | PASS |
| 19 | 5700 | 11.47 | 10.81 | 11.33 | 14.025 | 12.050 | 13.583 | 15.984 | 39.661 | 24.00 | 22.75 | PASS |

NOTE: The 26dBc Occupied Bandwidth plot, please refer to the following pages.

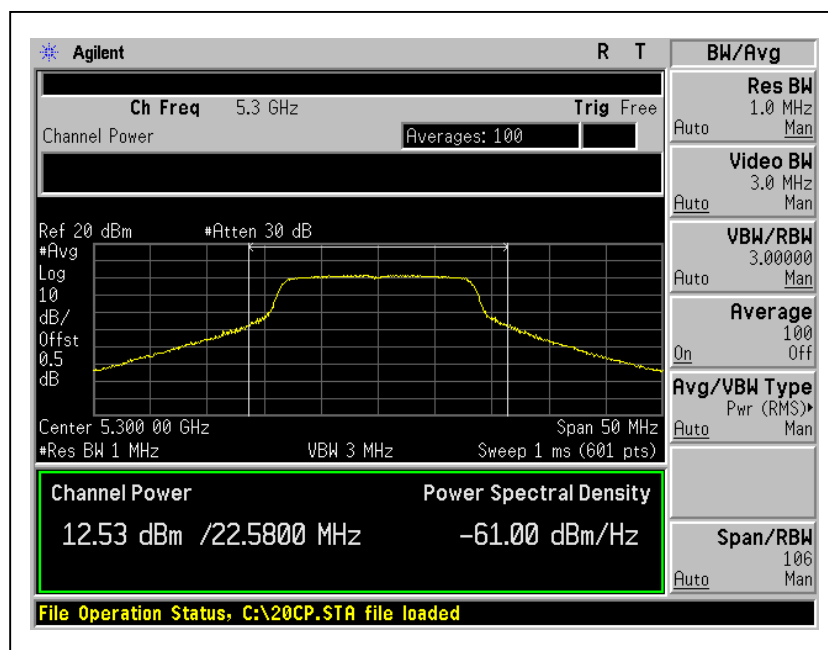


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Peak Power Output: For Chain (0) :CH5



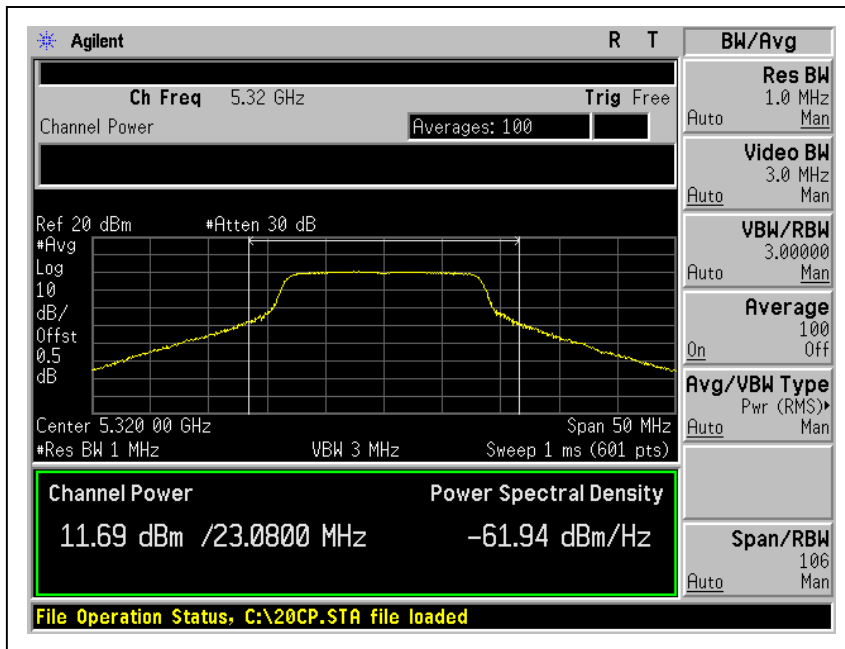
CH7



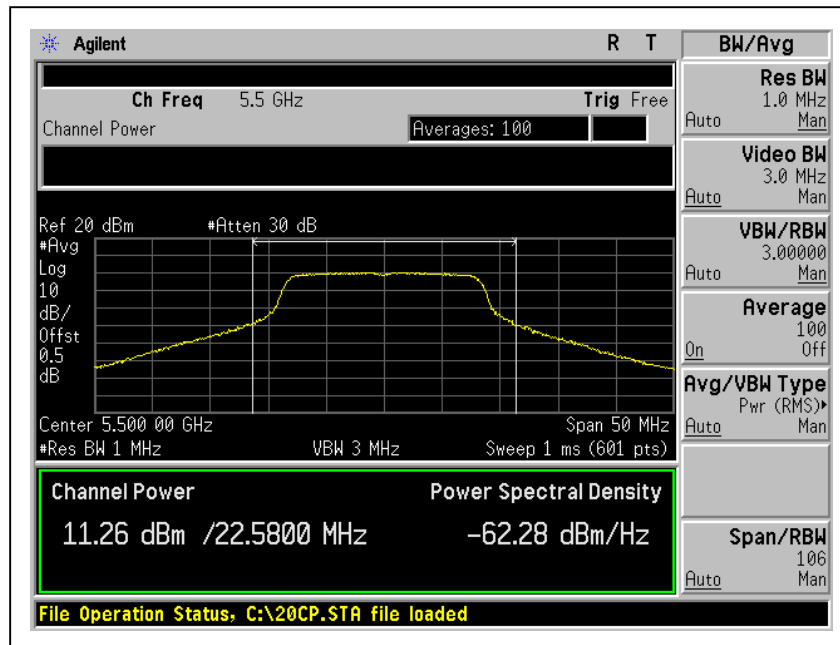


A D T

CH8



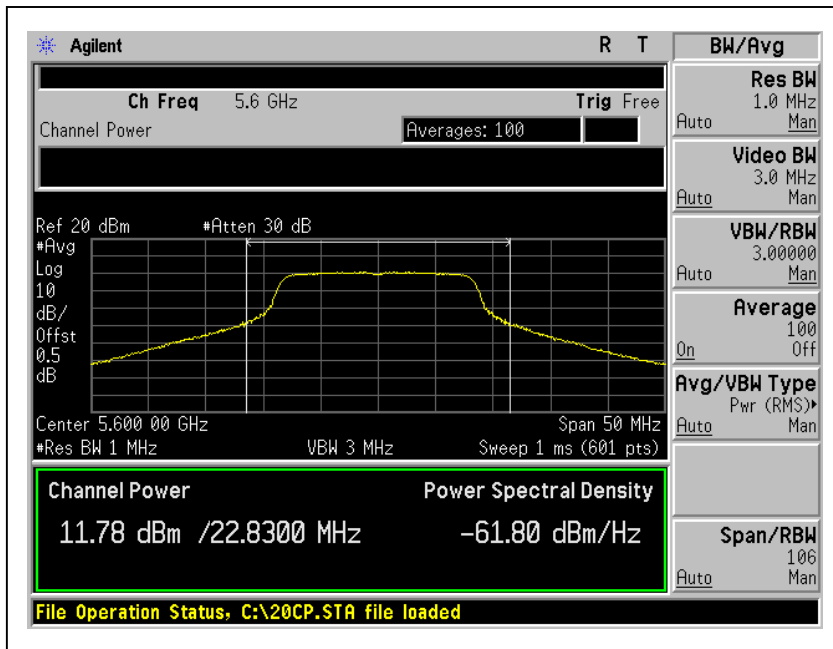
CH9



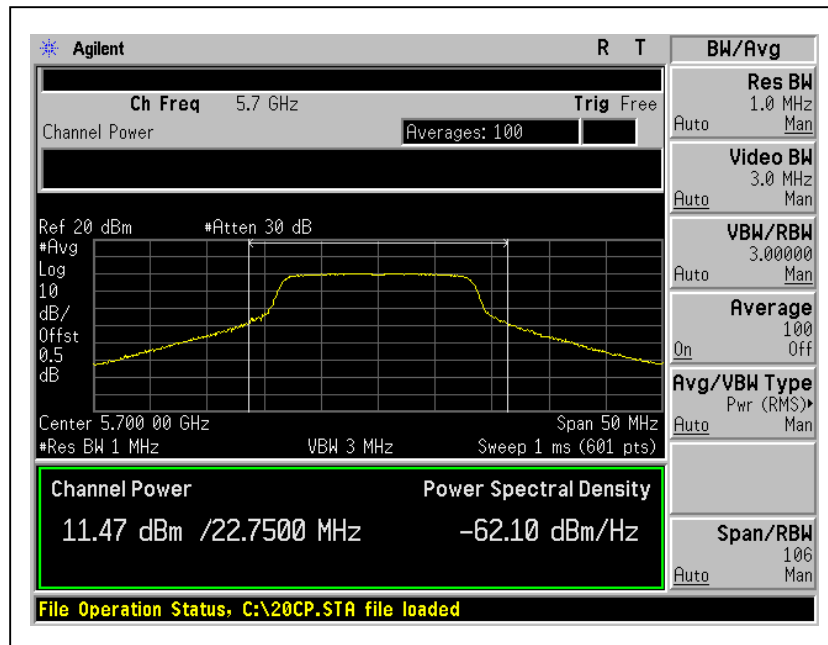


A D T

CH14



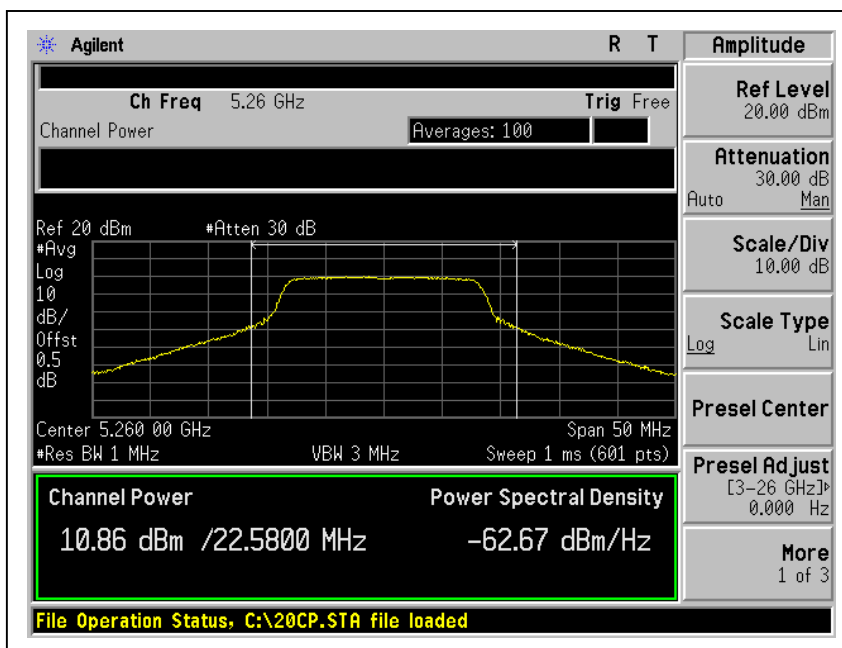
CH19



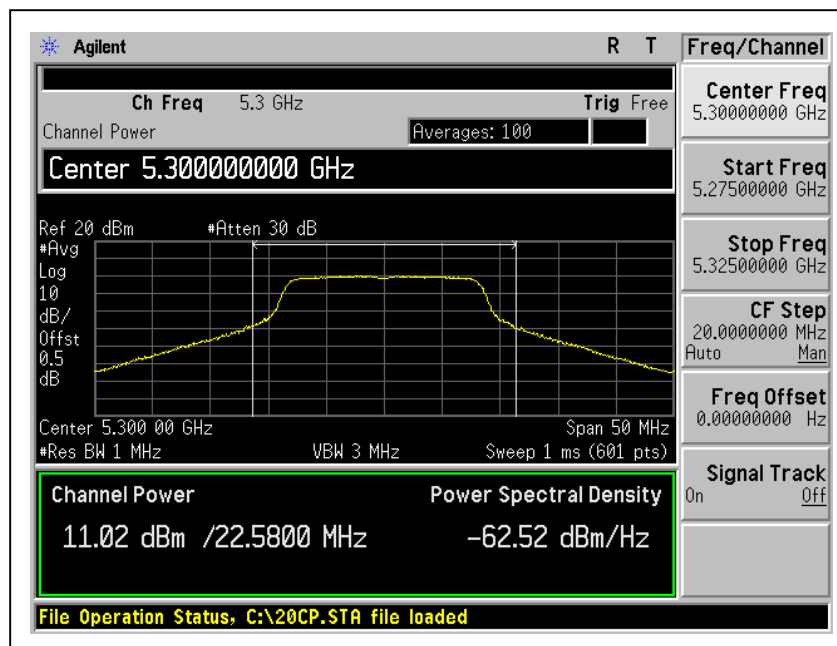


A D T

For Chain (1) :CH5



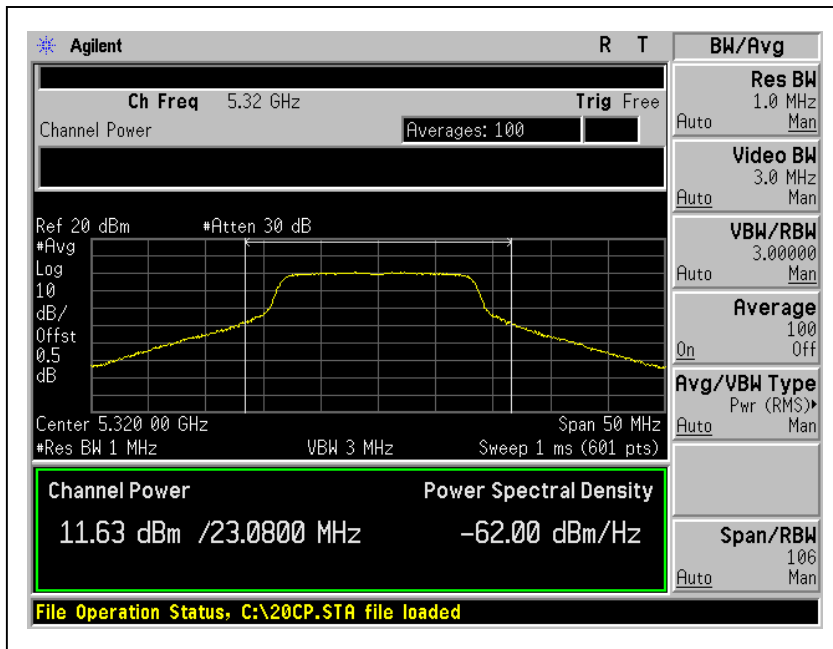
CH7



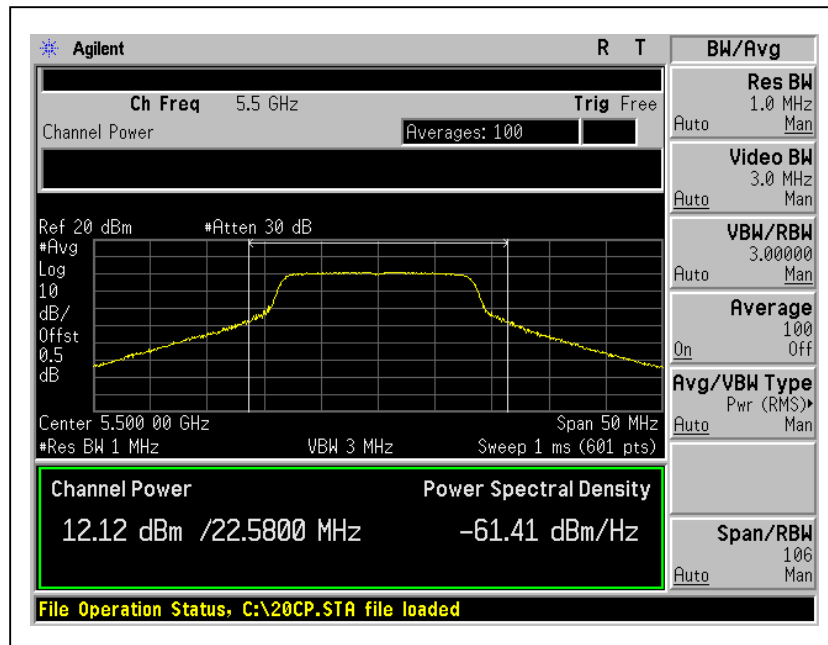


A D T

CH8



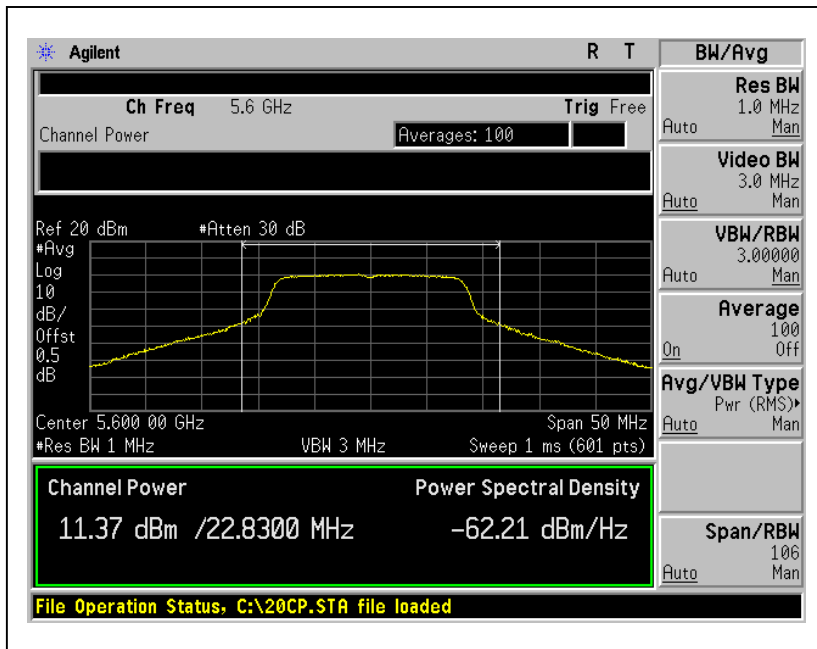
CH9



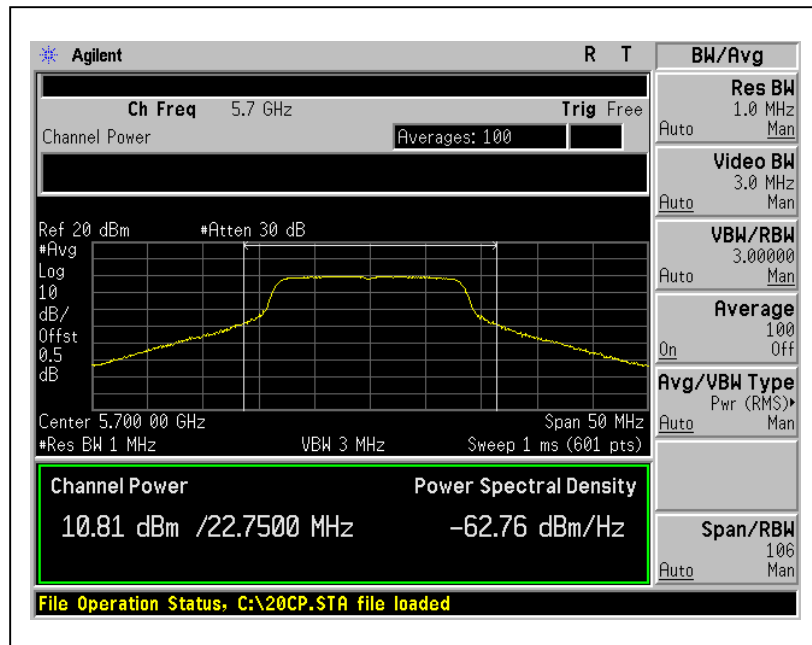


A D T

CH14



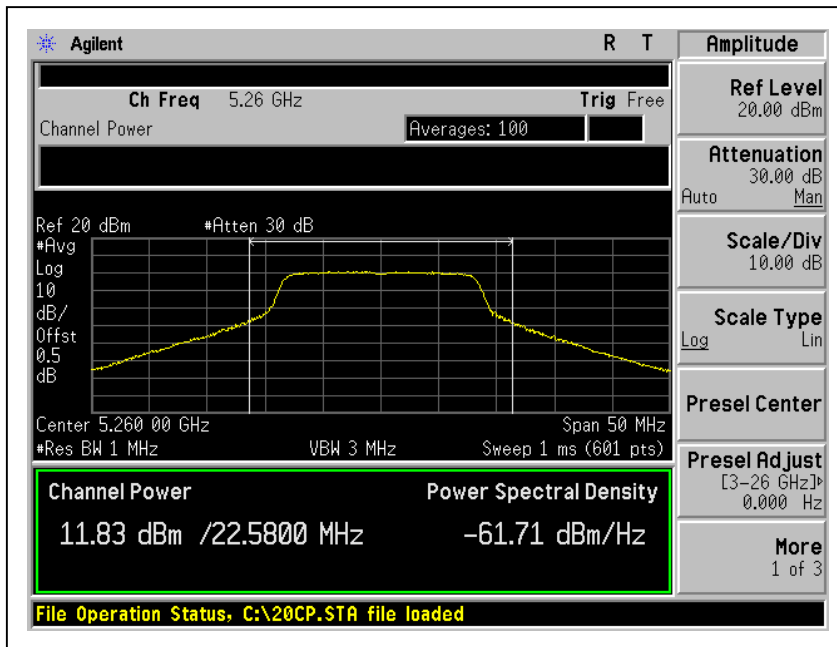
CH19



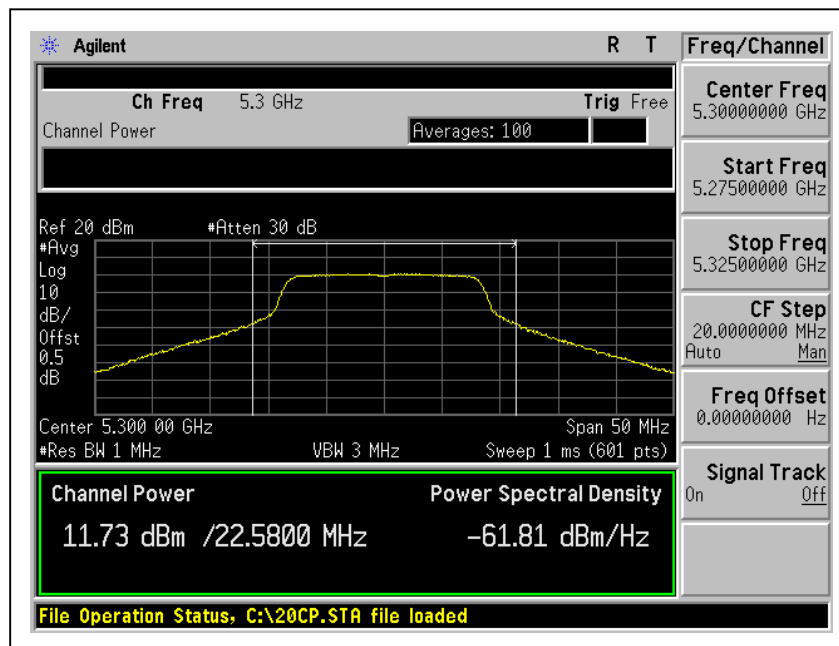


A D T

For Chain (2) :CH5



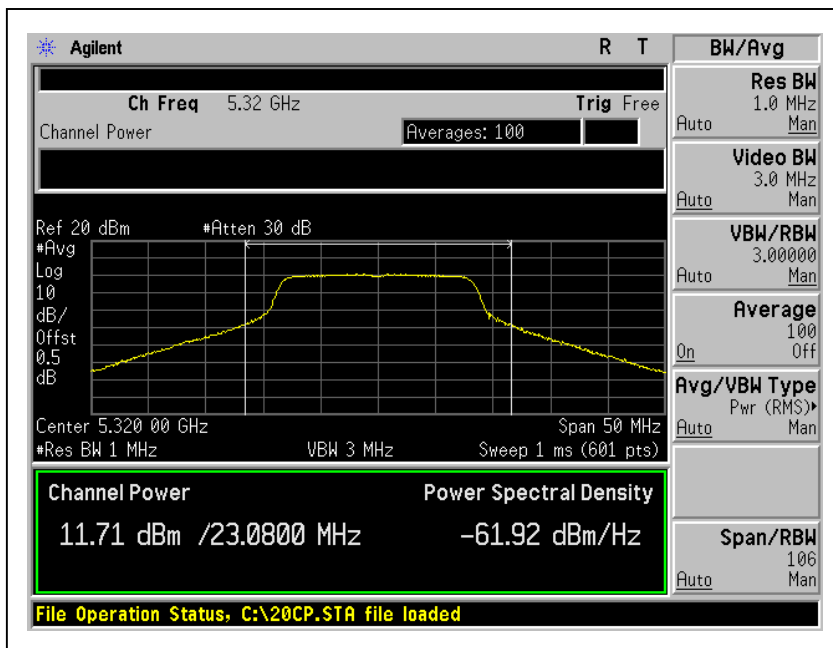
CH7



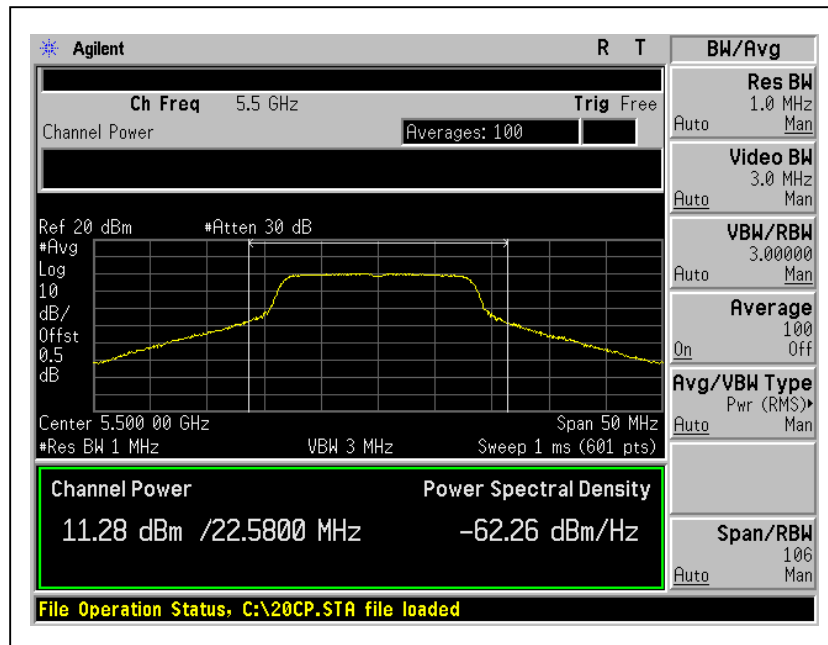


A D T

CH8



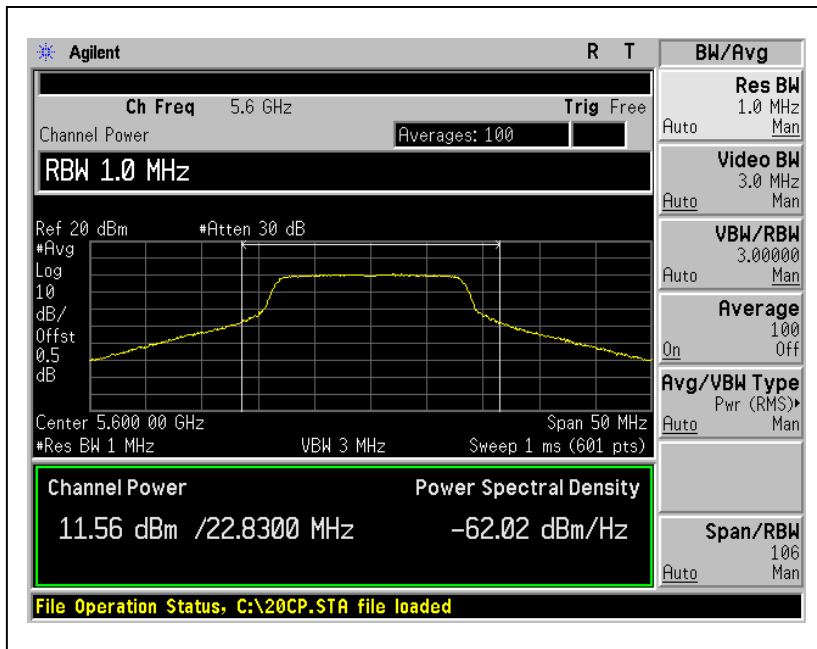
CH9



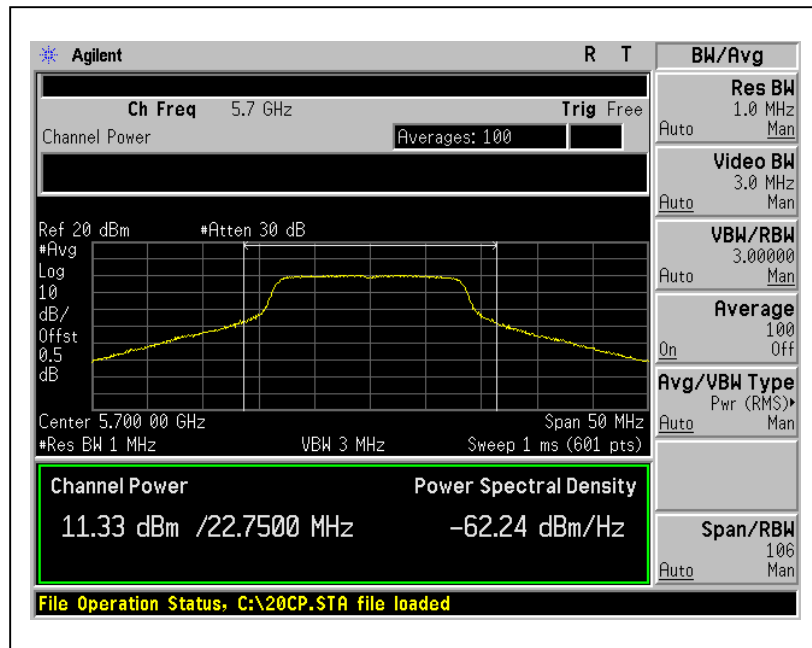


A D T

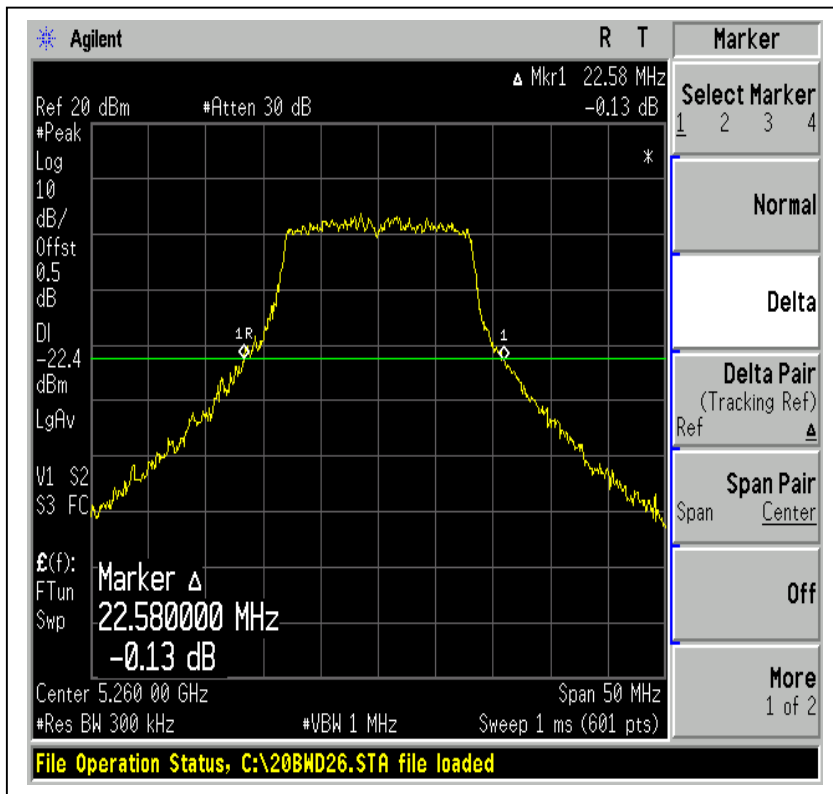
CH14



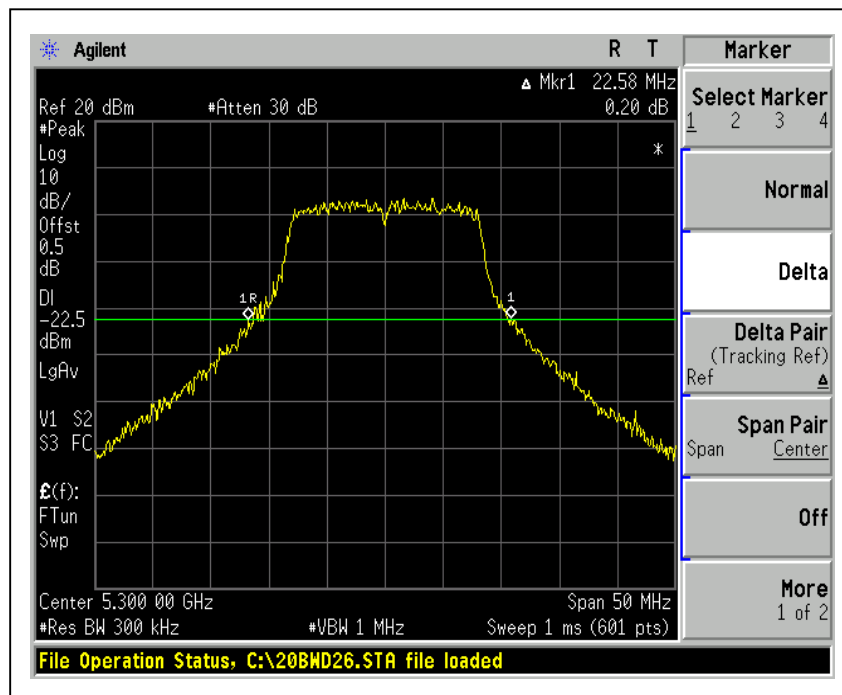
CH19



26dB Occupied Bandwidth:
CH5



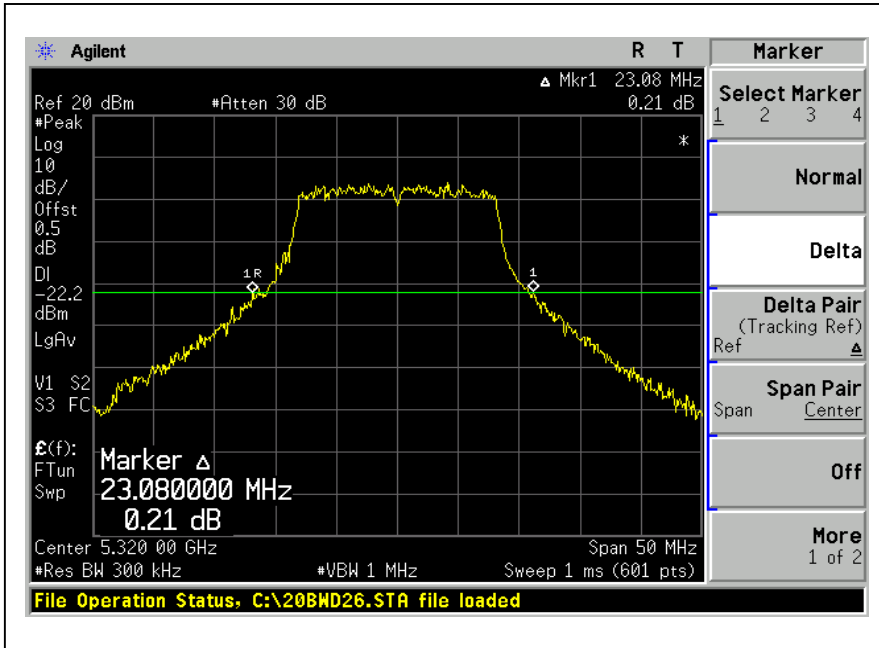
CH7



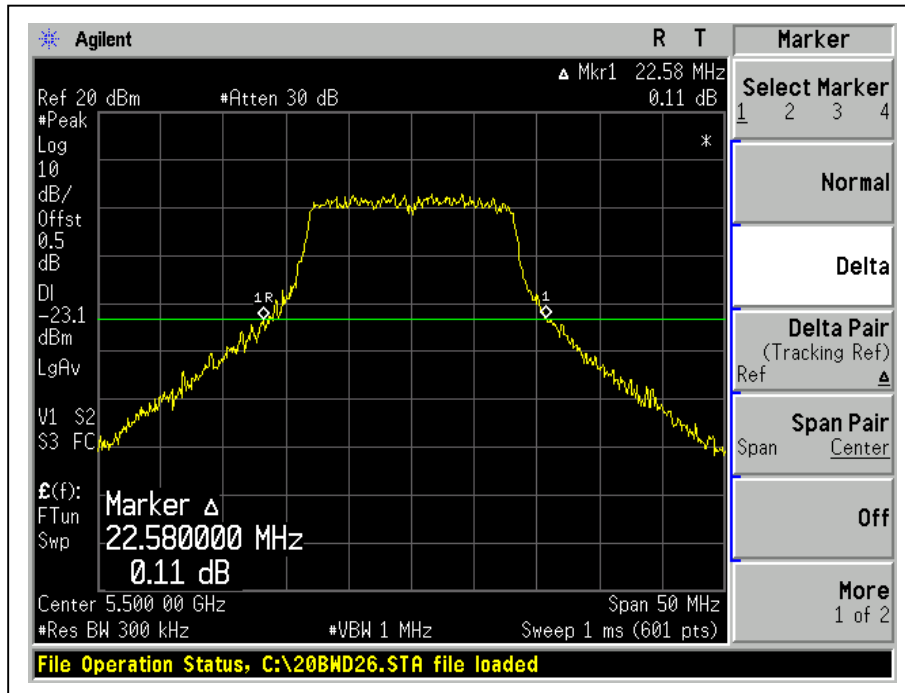


A D T

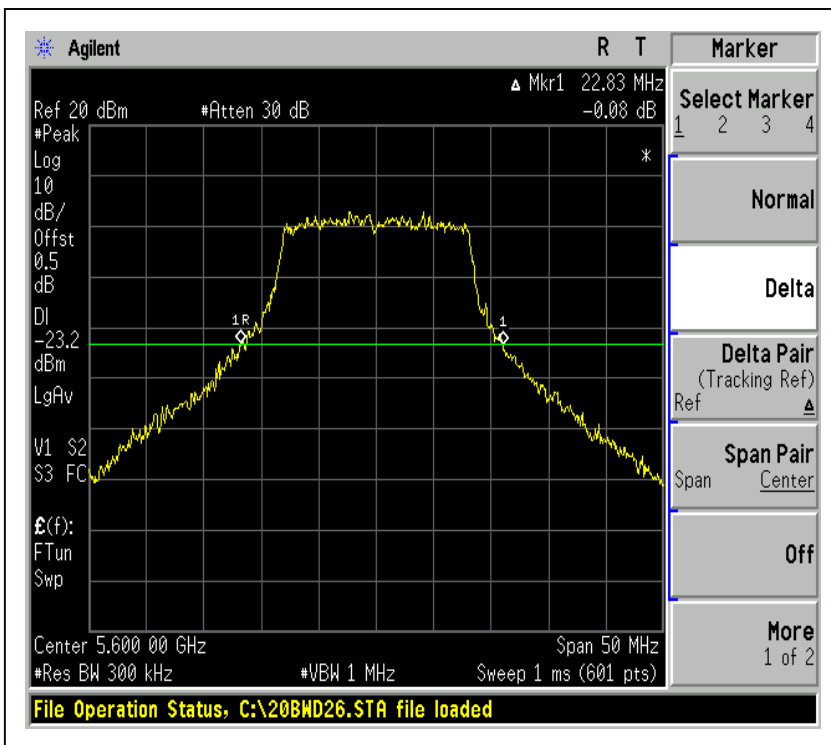
CH8



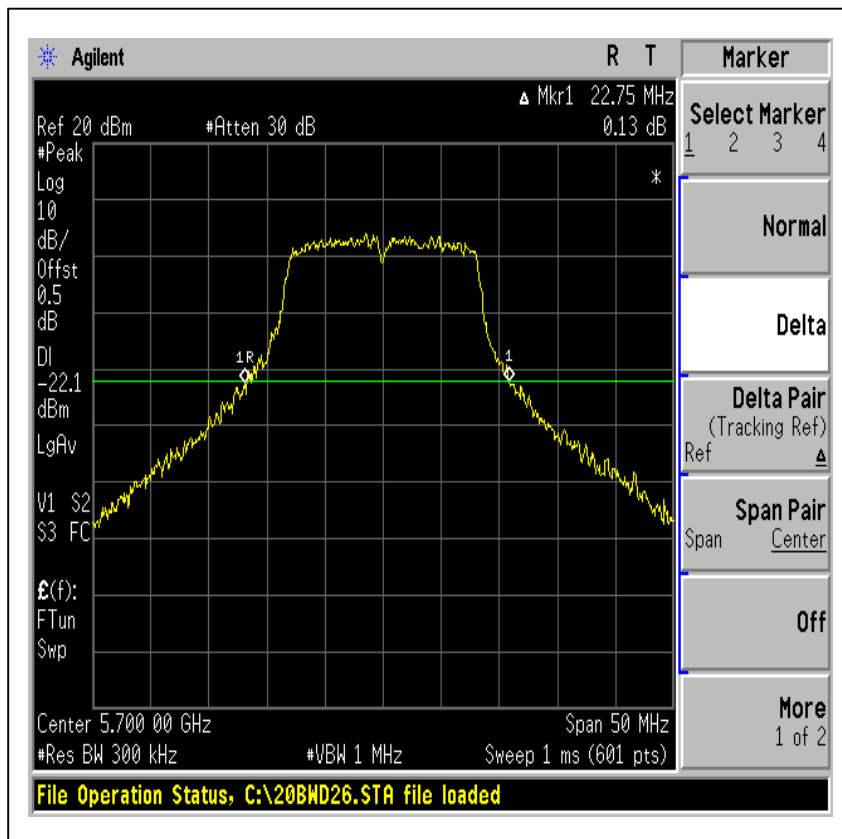
CH9



CH14



CH19





A D T

DRAFT 802.11n (20MHz) OFDM modulation:

| | | | |
|------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 6.5Mbps |
| INPUT POWER | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 26deg.C, 63%RH, 965hPa |
| TESTED BY | Wen Yu | | |

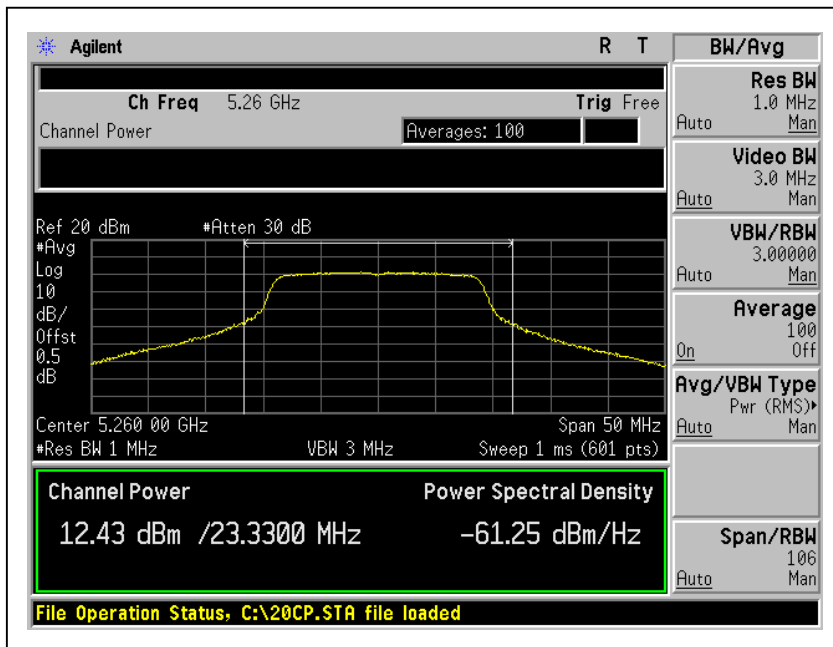
| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER OUTPUT (dBm) | | | PEAK POWER OUTPUT (mW) | | | TOTAL PEAK POWER (dBm) | TOTAL PEAK POWER (mW) | PEAK POWER LIMIT (dBm) | 26dBc Occupied Bandwidth (MHz) | PASS/ FAIL |
|---------|-------------------------|-------------------------|---------|---------|------------------------|---------|---------|------------------------|-----------------------|------------------------|--------------------------------|------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 0 | Chain 1 | Chain 2 | | | | | |
| 5 | 5260 | 12.43 | 10.9 | 11.79 | 17.498 | 12.303 | 15.101 | 16.52 | 44.902 | 24.00 | 23.33 | PASS |
| 7 | 5300 | 12.43 | 10.89 | 11.7 | 17.498 | 12.274 | 14.791 | 16.49 | 44.563 | 24.00 | 24.42 | PASS |
| 8 | 5320 | 12.11 | 11.18 | 11.3 | 16.255 | 13.122 | 13.490 | 16.32 | 42.867 | 24.00 | 23.25 | PASS |
| 9 | 5500 | 11.33 | 12.34 | 11.15 | 13.583 | 17.140 | 13.032 | 16.41 | 43.755 | 24.00 | 23.25 | PASS |
| 14 | 5600 | 11.64 | 11.34 | 11.53 | 14.588 | 13.614 | 14.223 | 16.28 | 42.425 | 24.00 | 23.25 | PASS |
| 19 | 5700 | 12.07 | 11.15 | 11.37 | 16.106 | 13.032 | 13.709 | 16.32 | 42.847 | 24.00 | 23.58 | PASS |

NOTE: The 26dBc Occupied Bandwidth plot, please refer to the following pages.

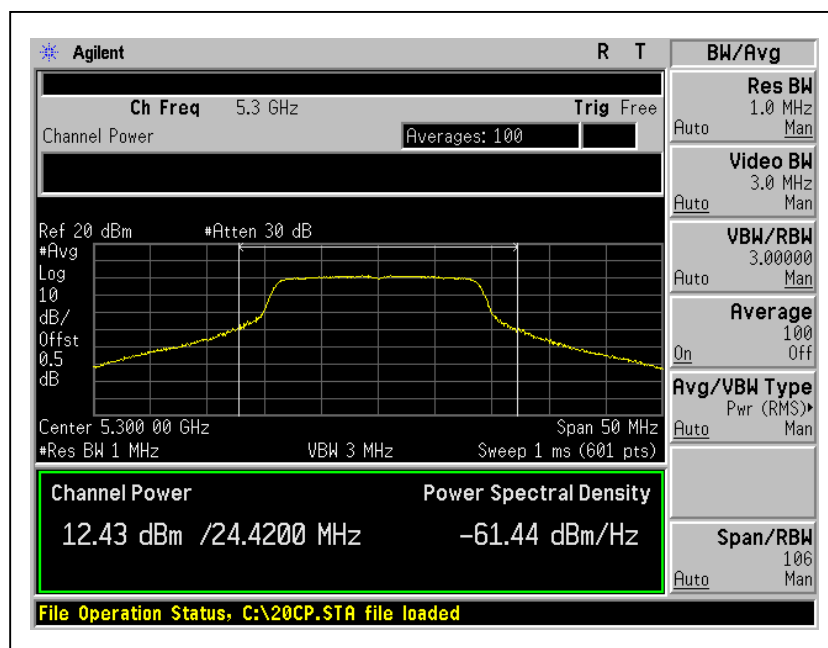


A D T

Peak Power Output: For Chain (0) :CH5



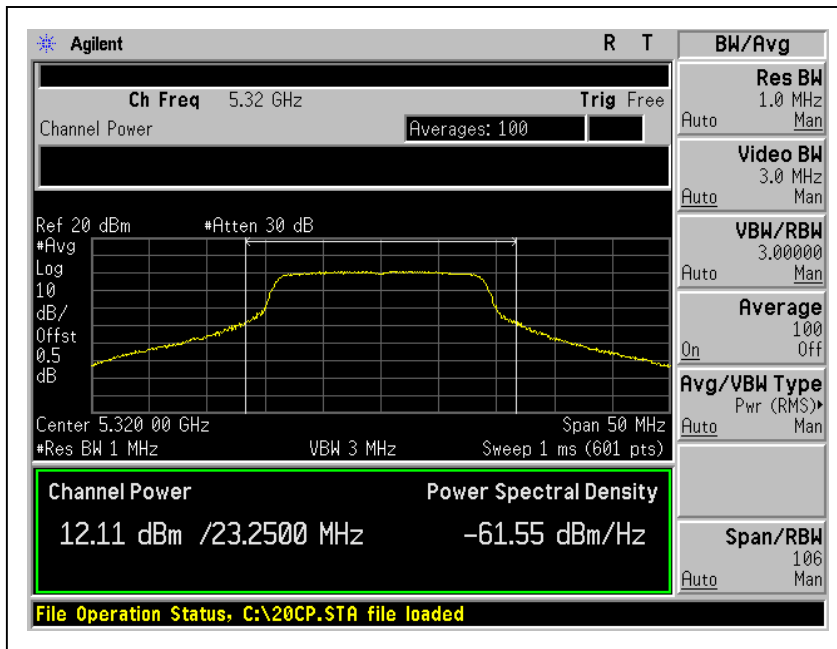
CH7



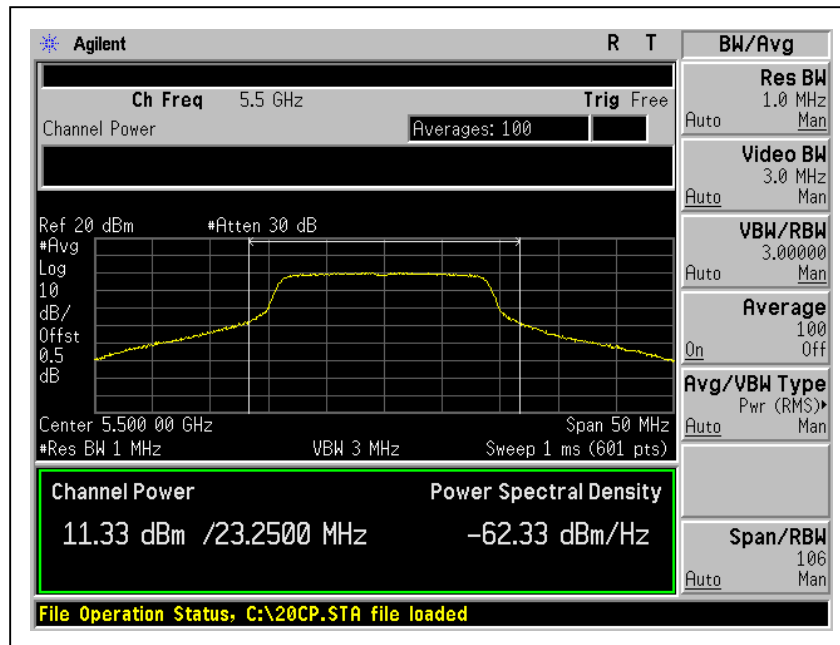


A D T

CH8



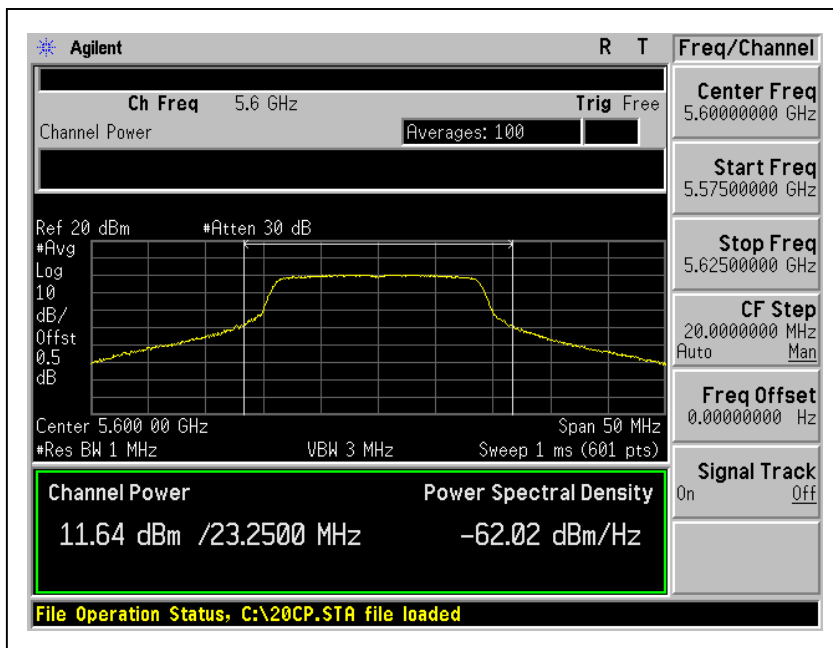
CH9



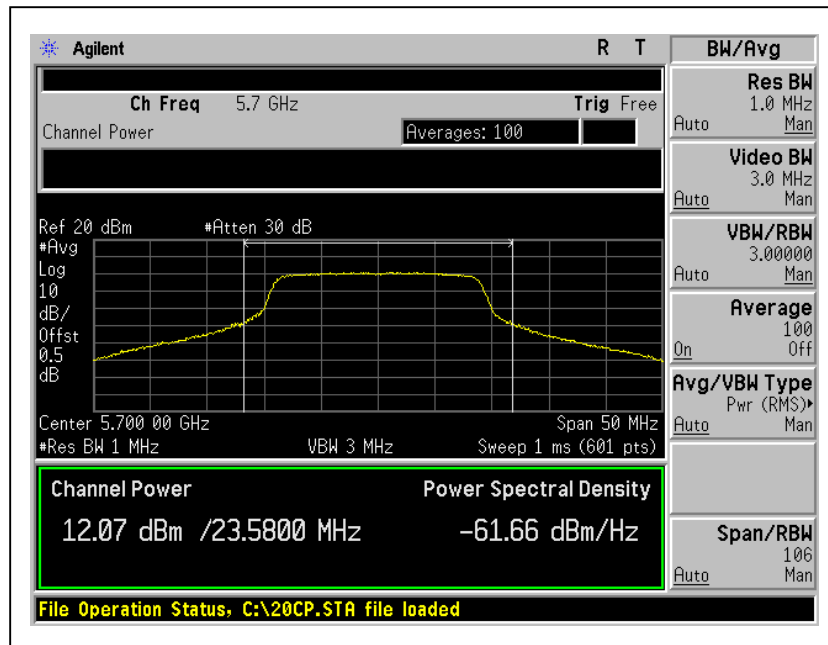


A D T

CH14



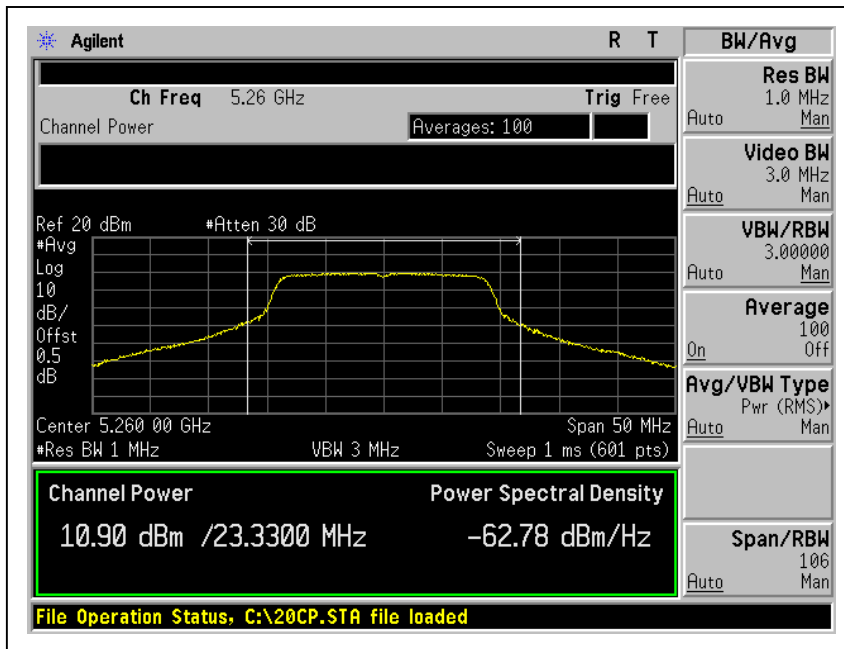
CH19



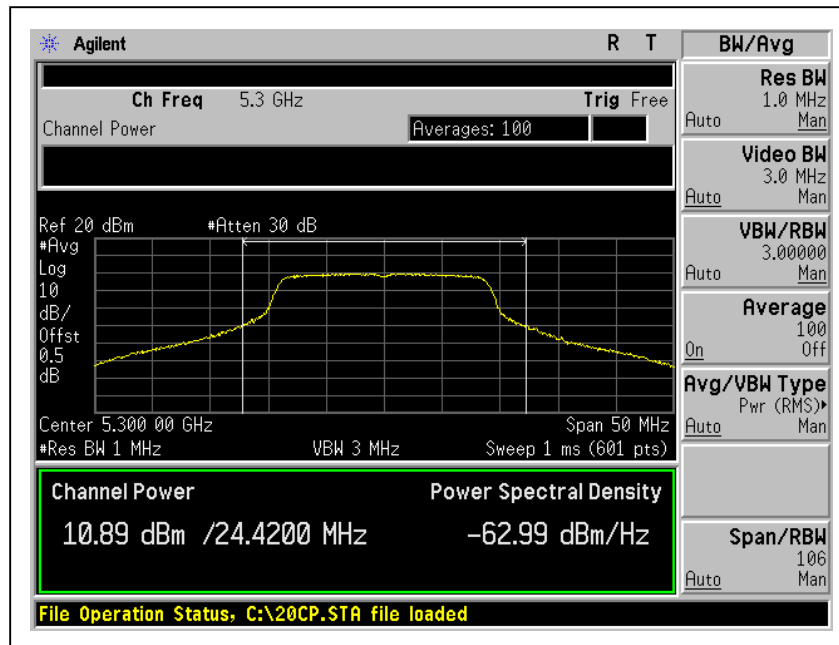


A D T

For Chain (1) :CH5



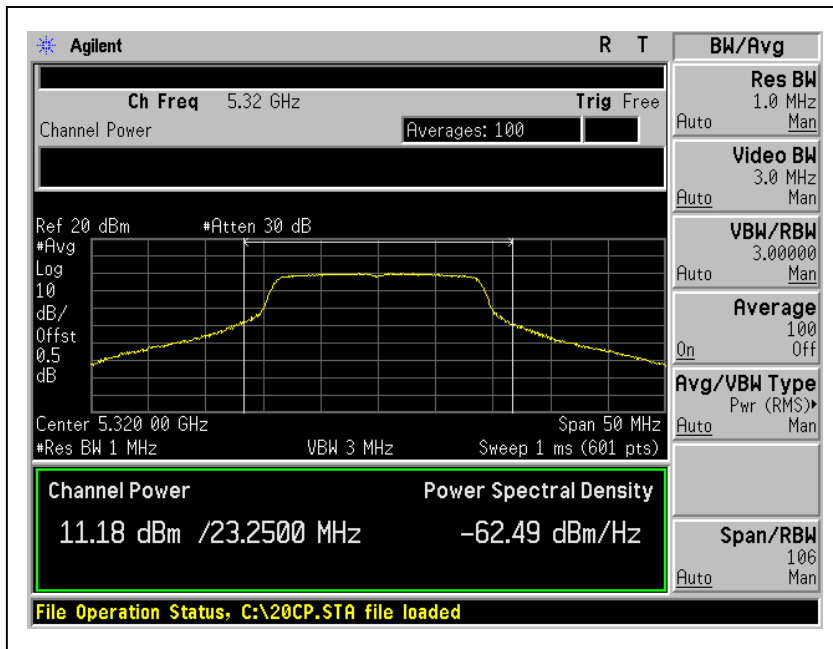
CH7



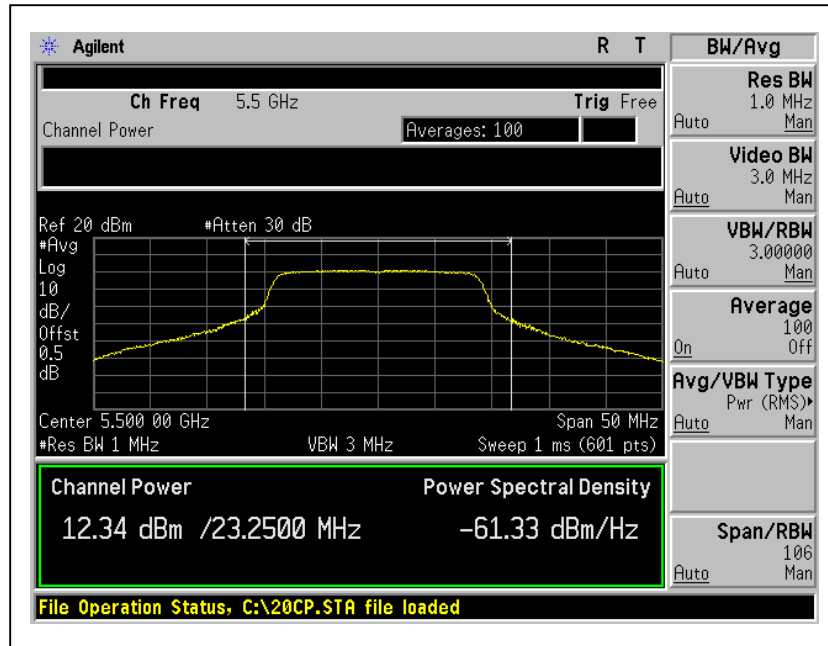


A D T

CH8



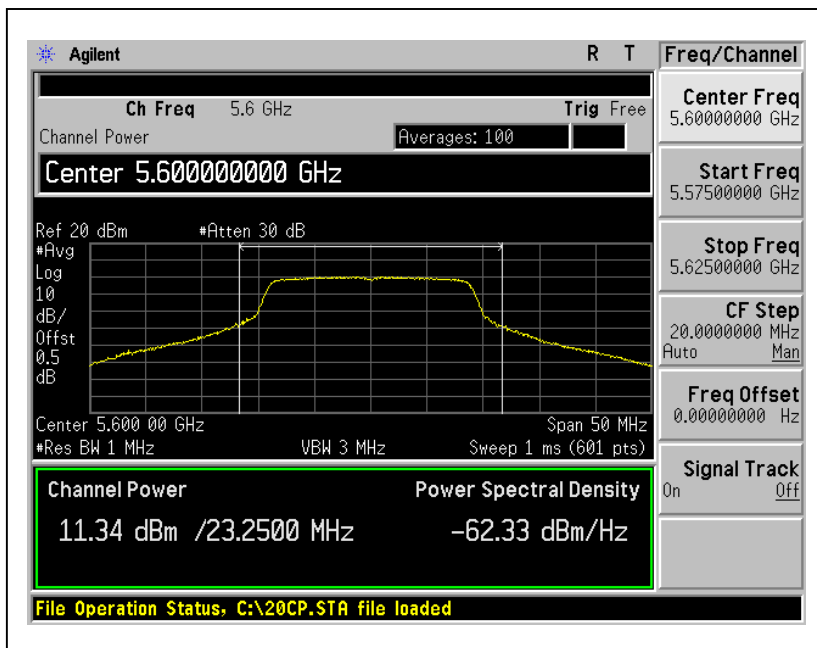
CH9



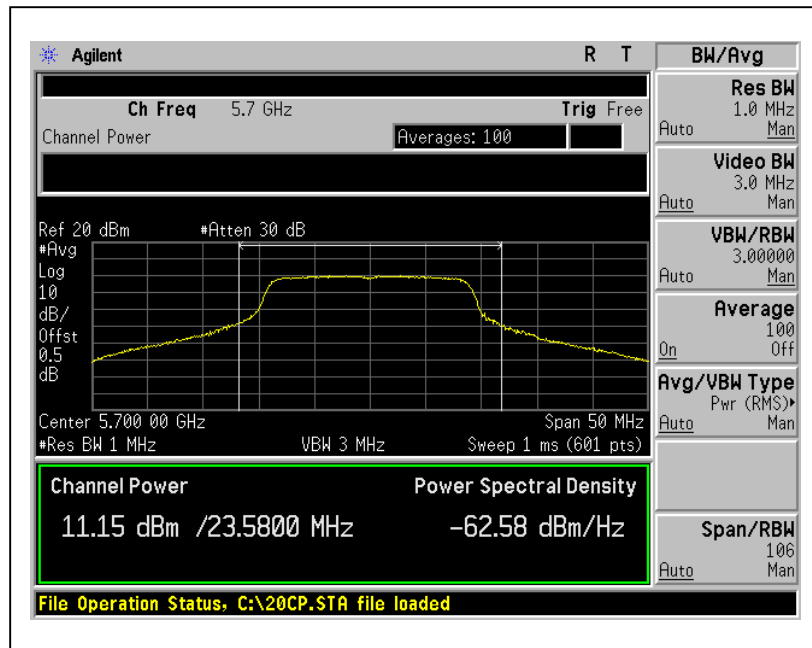


A D T

CH14



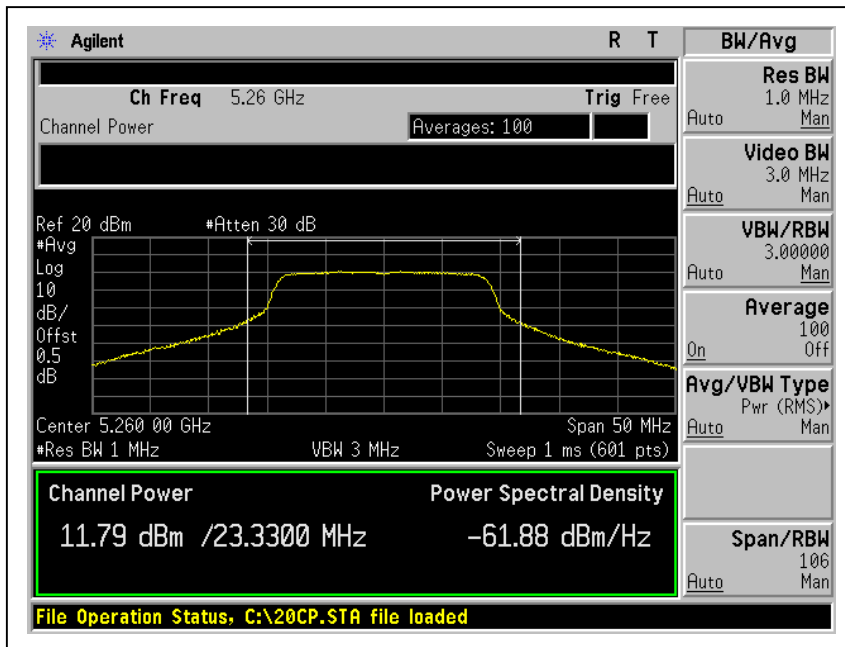
CH19



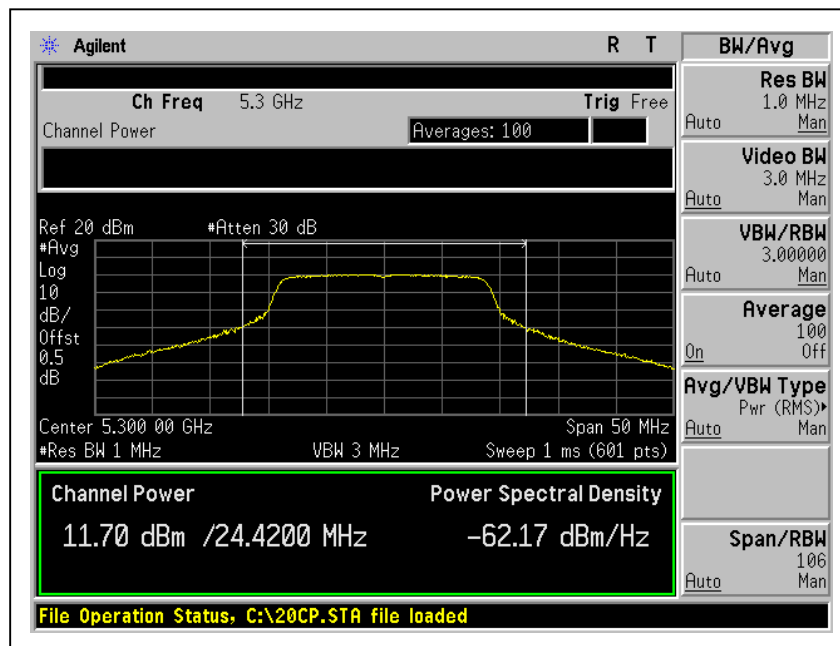


A D T

For Chain (2) :CH5



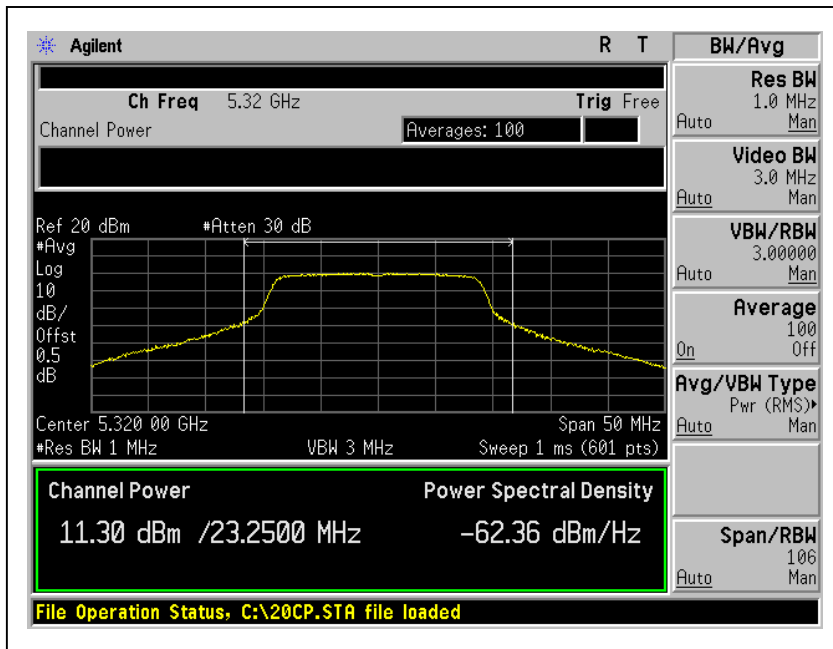
CH7



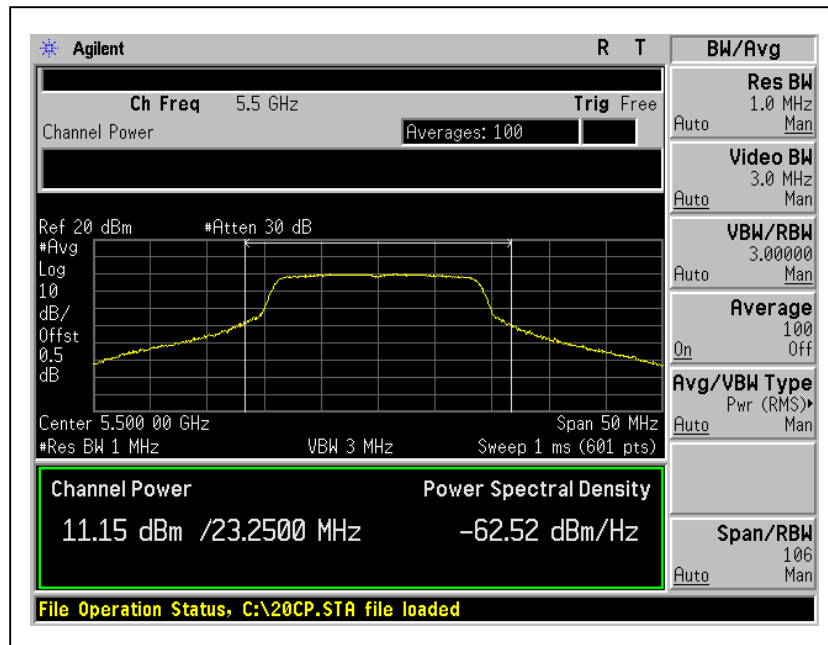


A D T

CH8



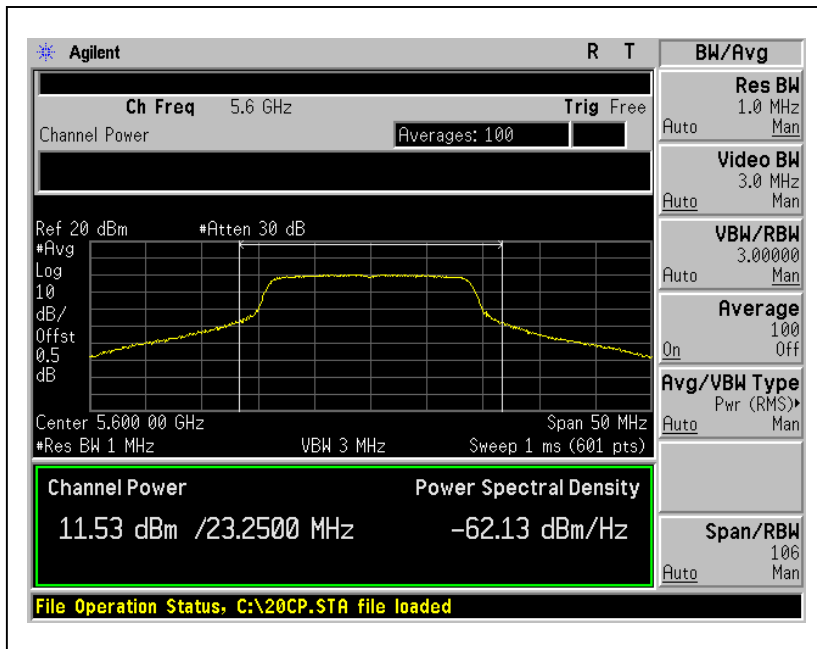
CH9



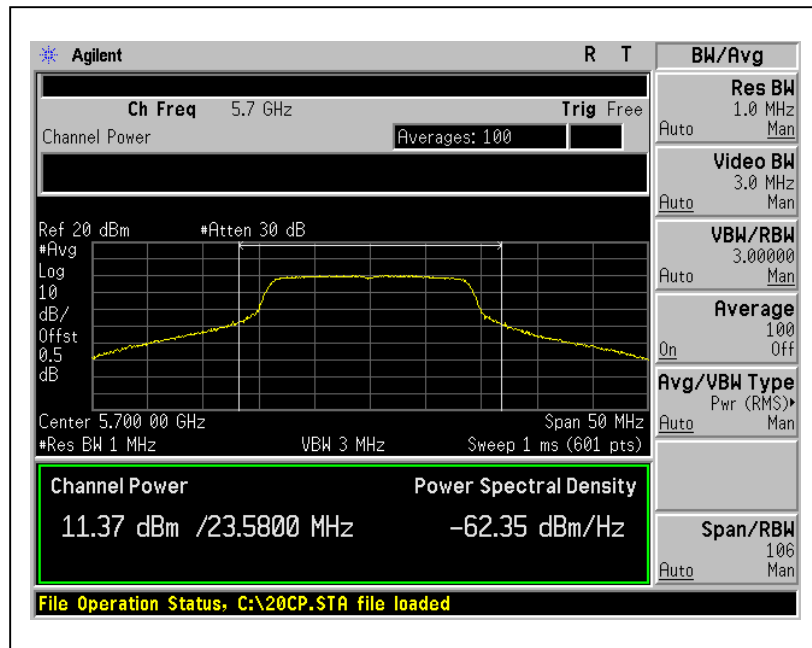


A D T

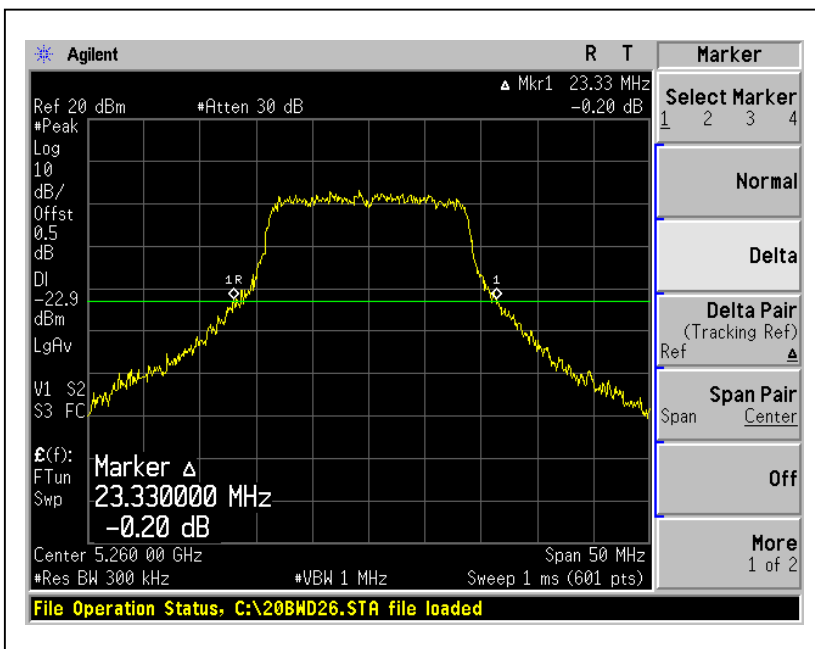
CH14



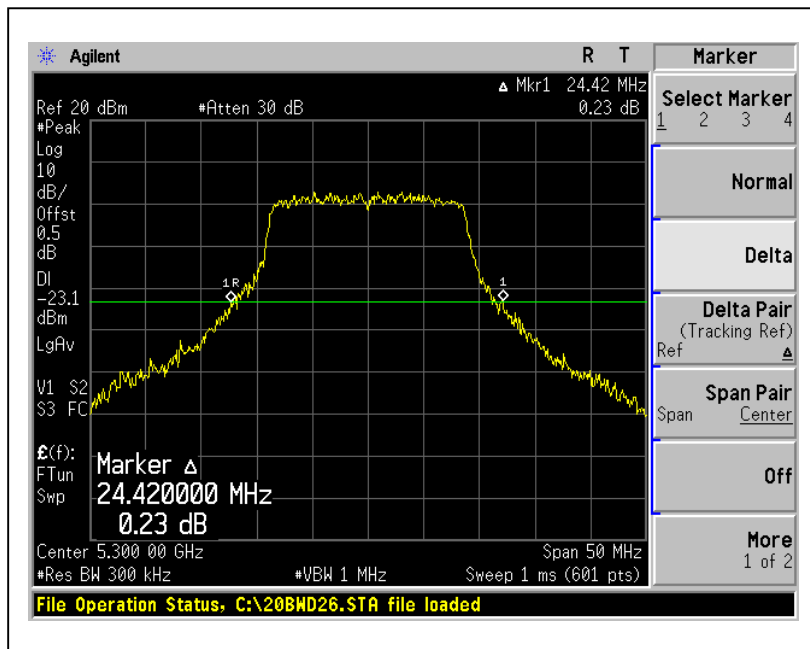
CH19



26dB Occupied Bandwidth:
CH5



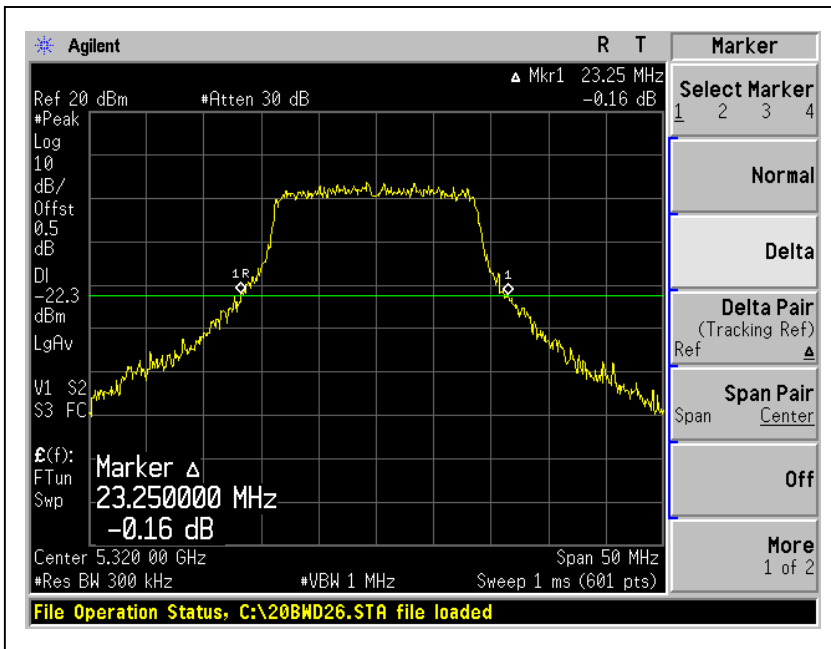
CH7



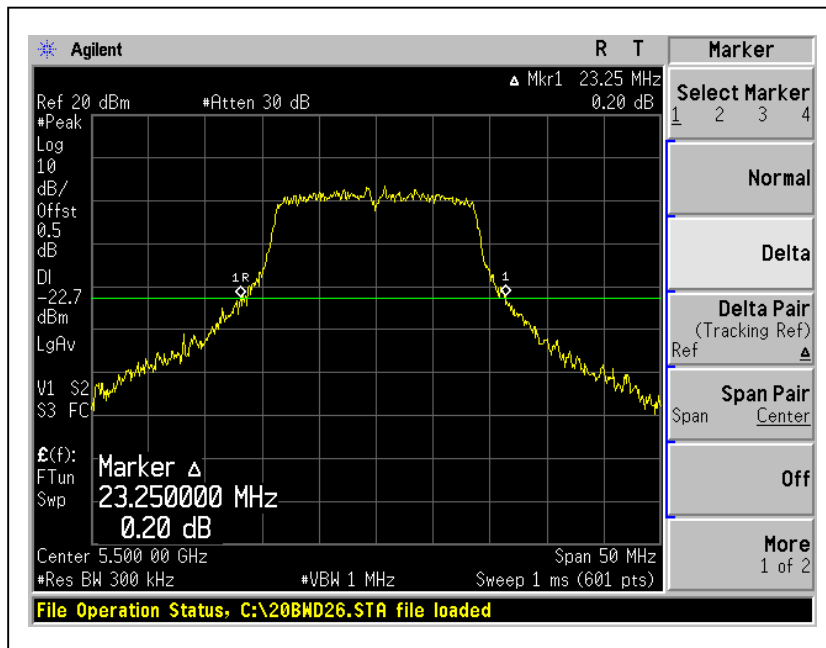


A D T

CH8



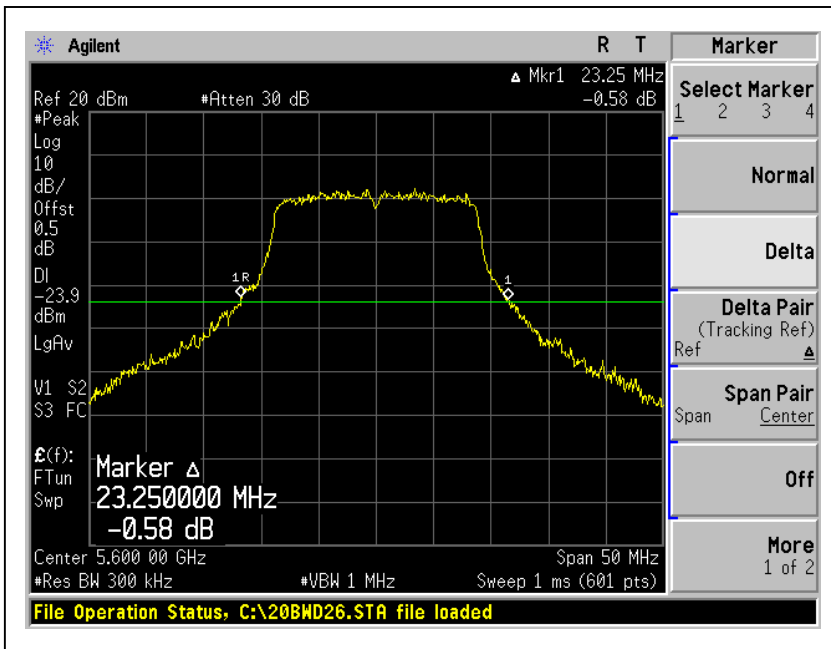
CH9



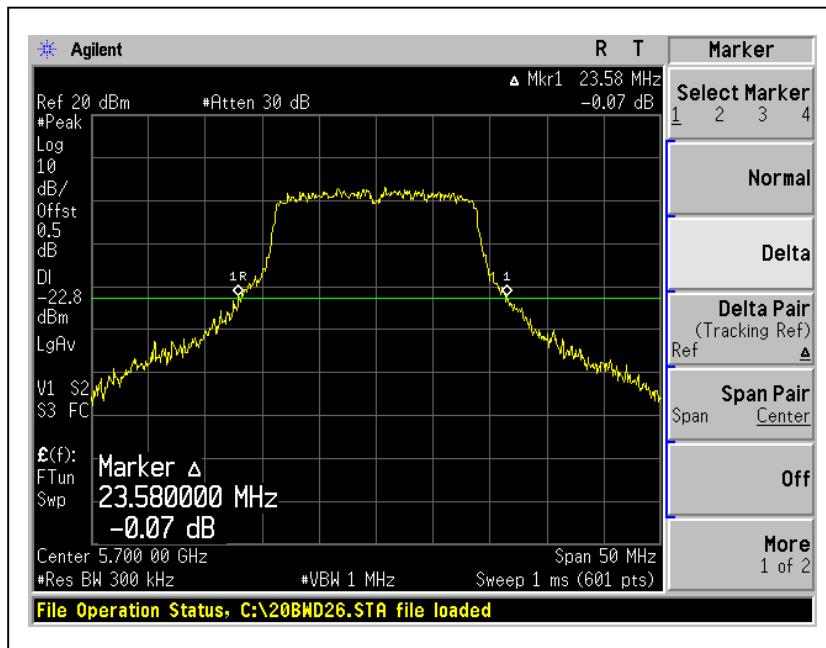


A D T

CH14



CH19





A D T

DRAFT 802.11n (40MHz) OFDM MODULATION:

| | | | |
|------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 13.5Mbps |
| INPUT POWER | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 26deg.C, 63%RH, 965hPa |
| TESTED BY | Wen Yu | | |

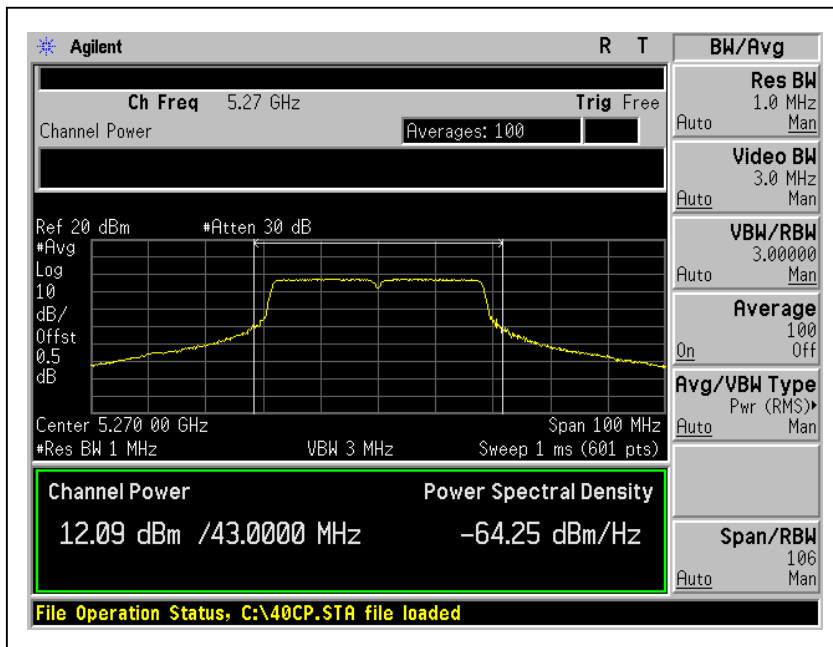
| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER OUTPUT (dBm) | | | PEAK POWER OUTPUT (mW) | | | TOTAL PEAK POWER (dBm) | TOTAL PEAK POWER (mW) | PEAK POWER LIMIT (dBm) | 26dBc Occupied Bandwidth (MHz) | PASS/ FAIL |
|---------|-------------------------|-------------------------|---------|---------|------------------------|---------|---------|------------------------|-----------------------|------------------------|--------------------------------|------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 0 | Chain 1 | Chain 2 | | | | | |
| 3 | 5270 | 12.09 | 10.94 | 11.07 | 16.181 | 12.417 | 12.794 | 16.17 | 41.392 | 24.00 | 43.00 | PASS |
| 4 | 5310 | 11.97 | 11.17 | 11.11 | 15.740 | 13.092 | 12.912 | 16.21 | 41.744 | 24.00 | 44.50 | PASS |
| 5 | 5510 | 8.74 | 8.96 | 9.77 | 7.482 | 7.870 | 9.484 | 13.95 | 24.836 | 24.00 | 43.67 | PASS |
| 7 | 5590 | 11.12 | 11.78 | 11.22 | 12.942 | 15.066 | 13.243 | 16.15 | 41.251 | 24.00 | 45.33 | PASS |
| 9 | 5670 | 12.09 | 11.52 | 11.25 | 16.181 | 14.191 | 13.335 | 16.41 | 43.707 | 24.00 | 44.17 | PASS |

NOTE: The 26dBc Occupied Bandwidth plot, please refer to the following pages.

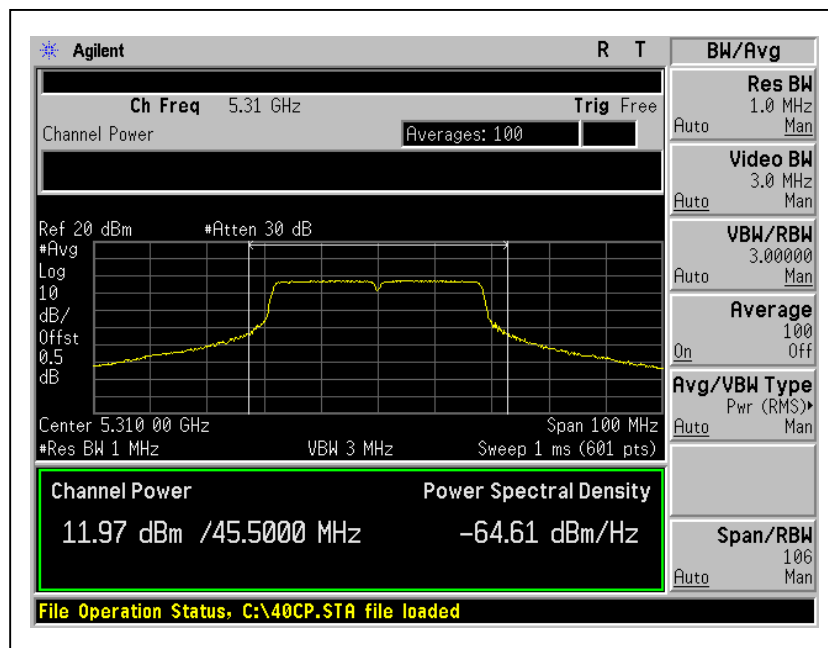


A D T

Peak Power Output: For Chain (0) :CH3



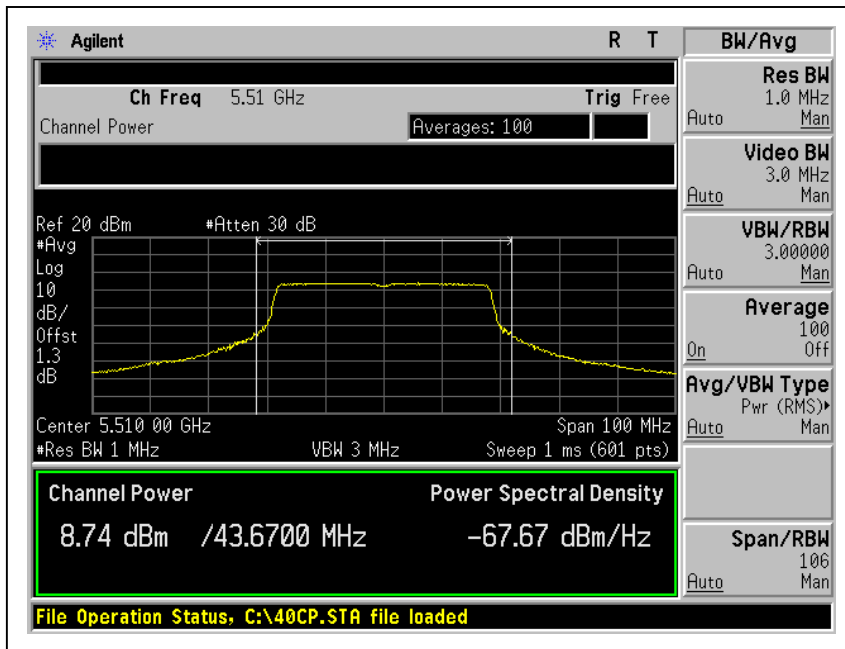
CH4



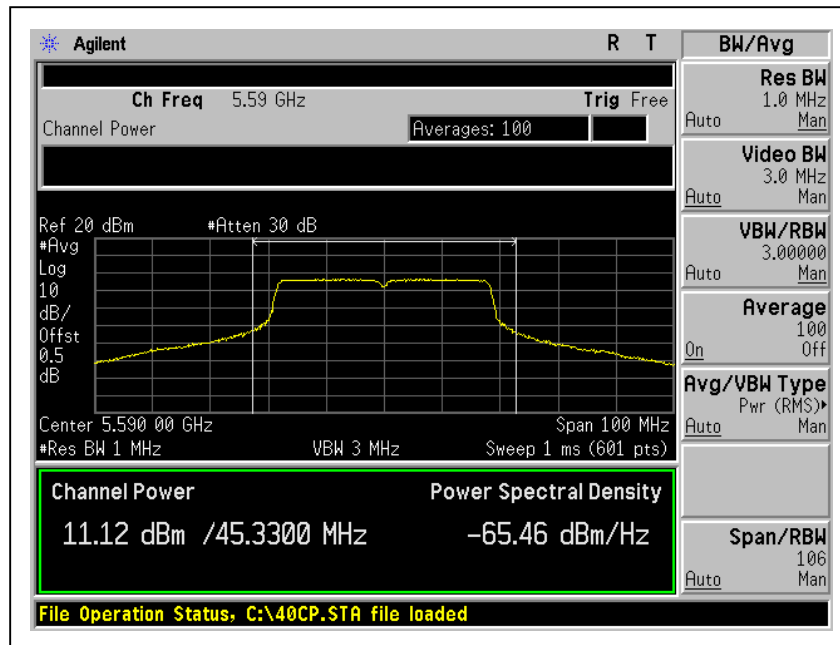


A D T

CH5



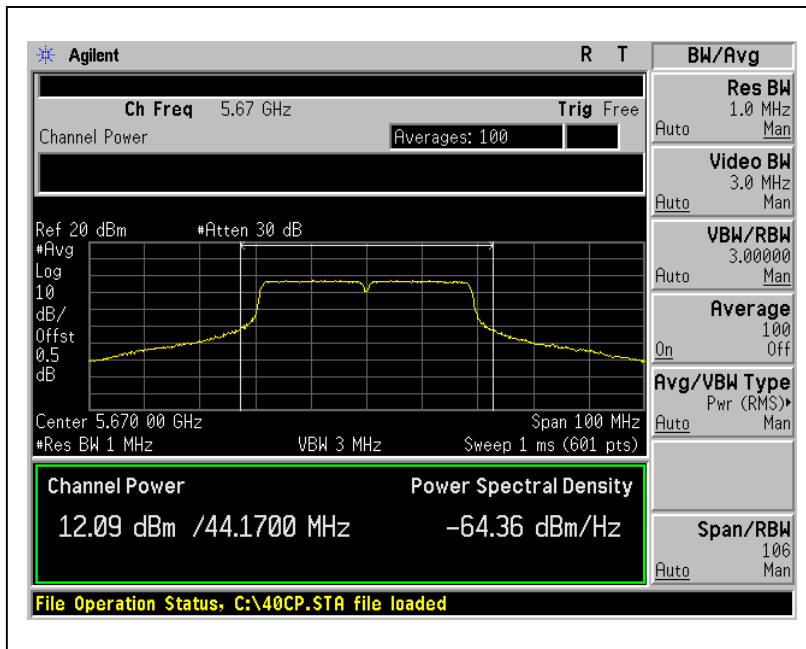
CH7





A D T

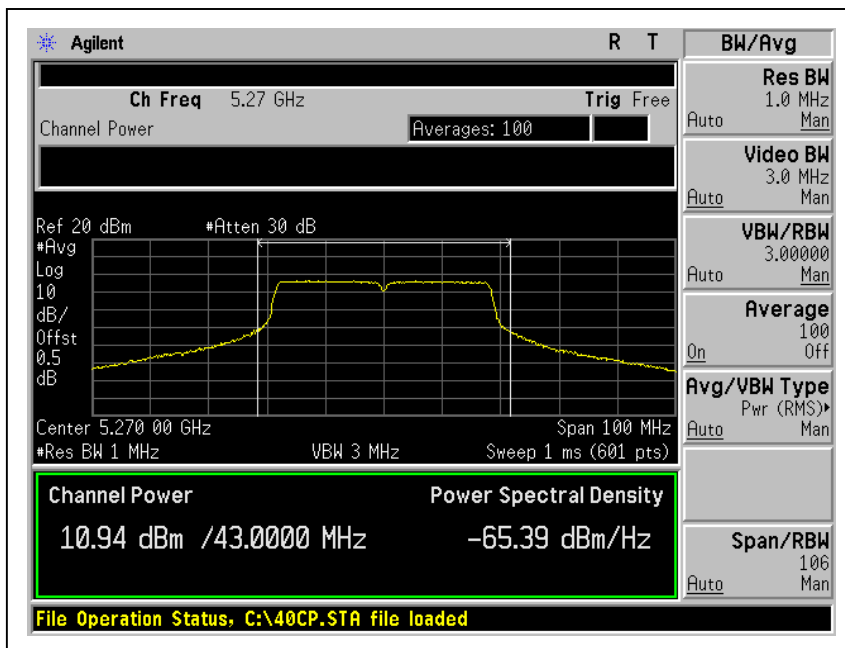
CH9



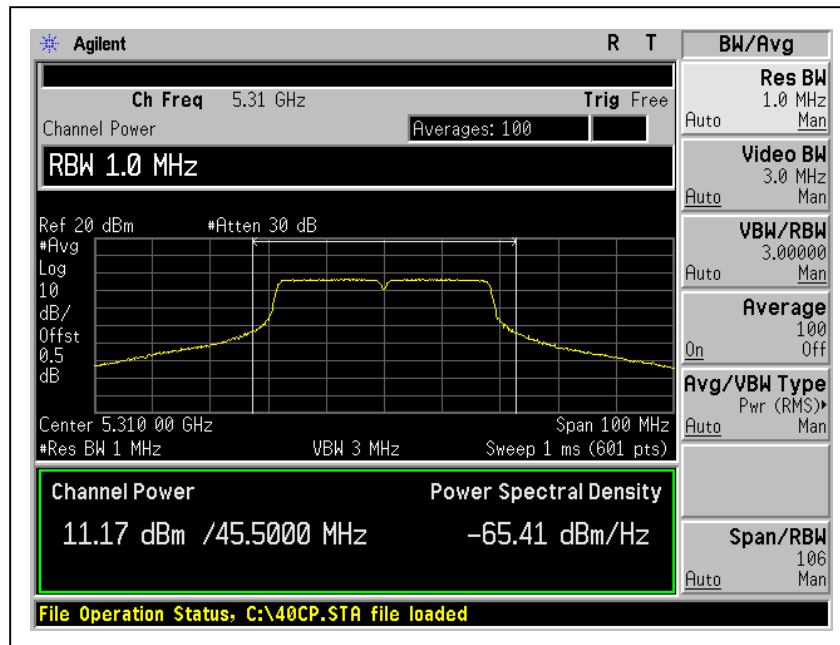


A D T

For Chain (1) :CH3



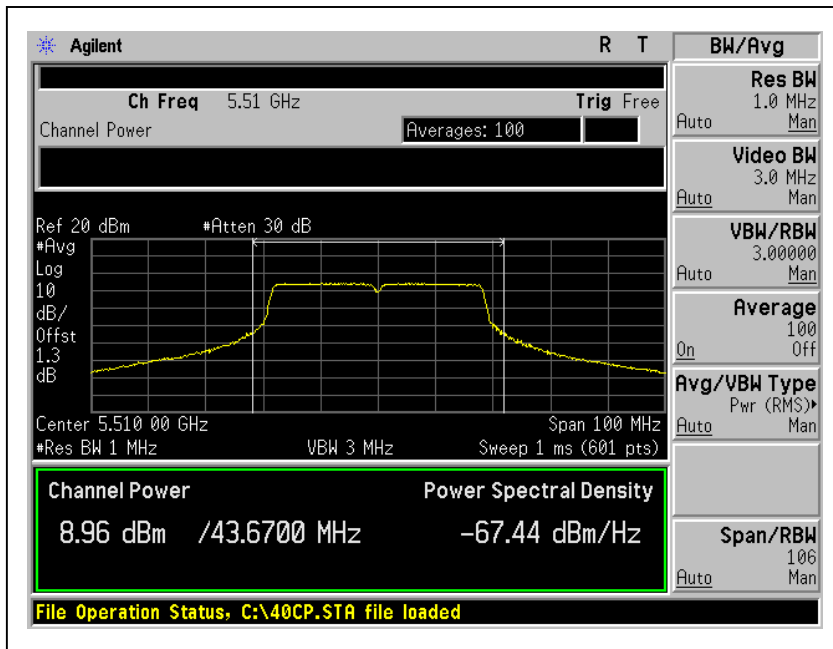
CH4



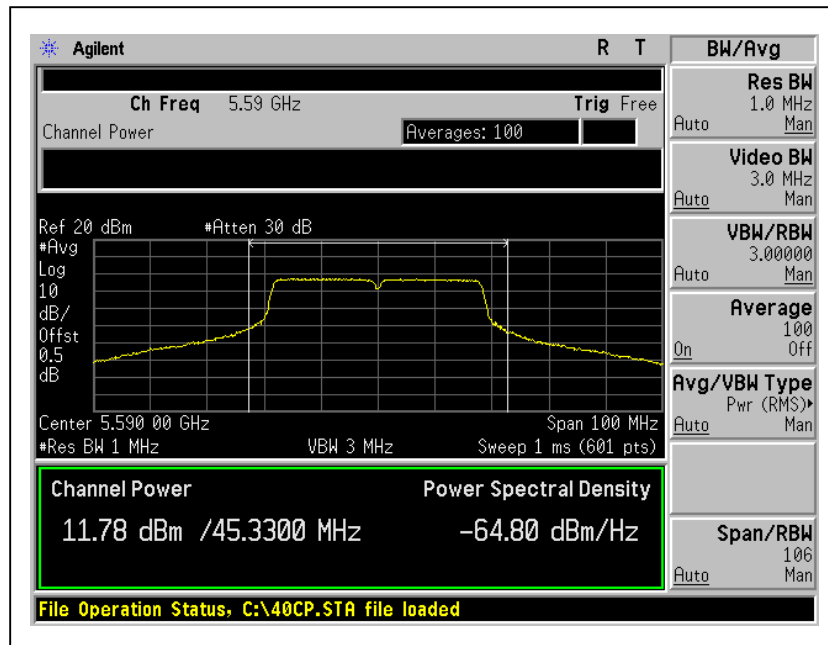


A D T

CH5



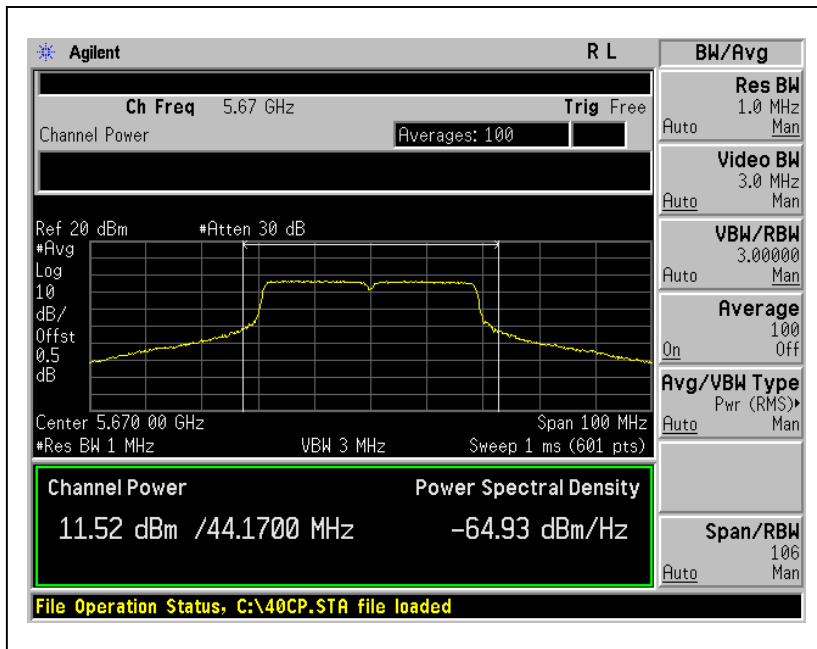
CH7



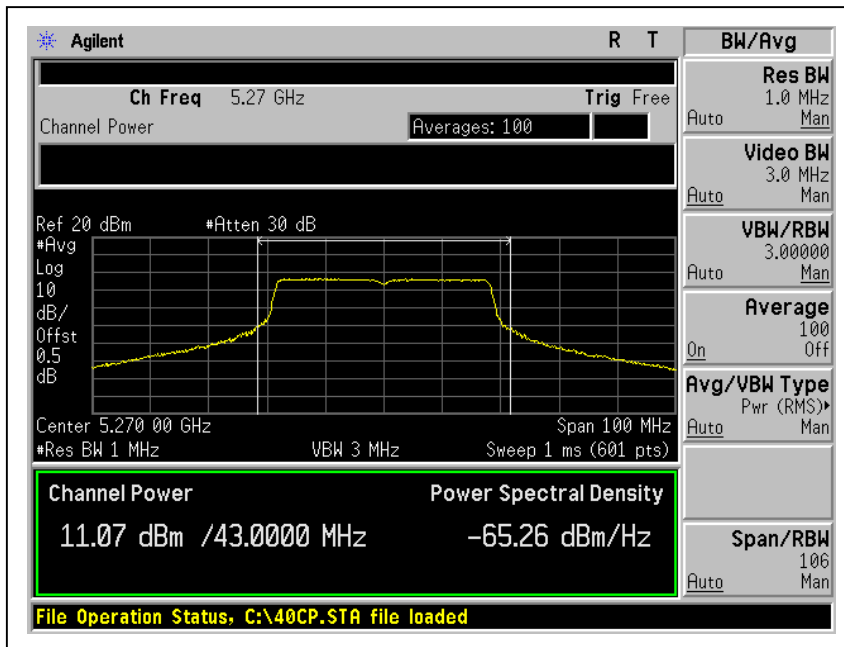


A D T

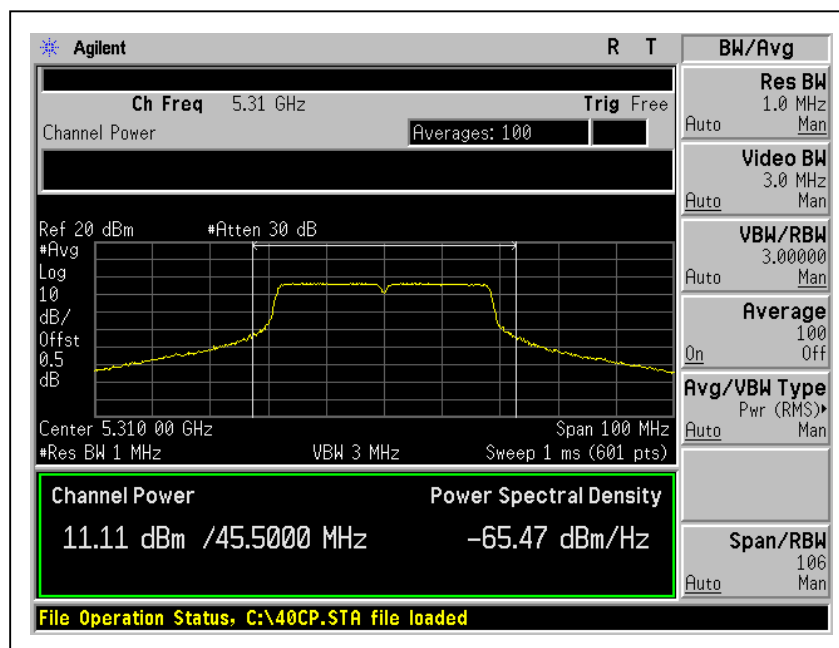
CH9



For Chain (2) :CH3



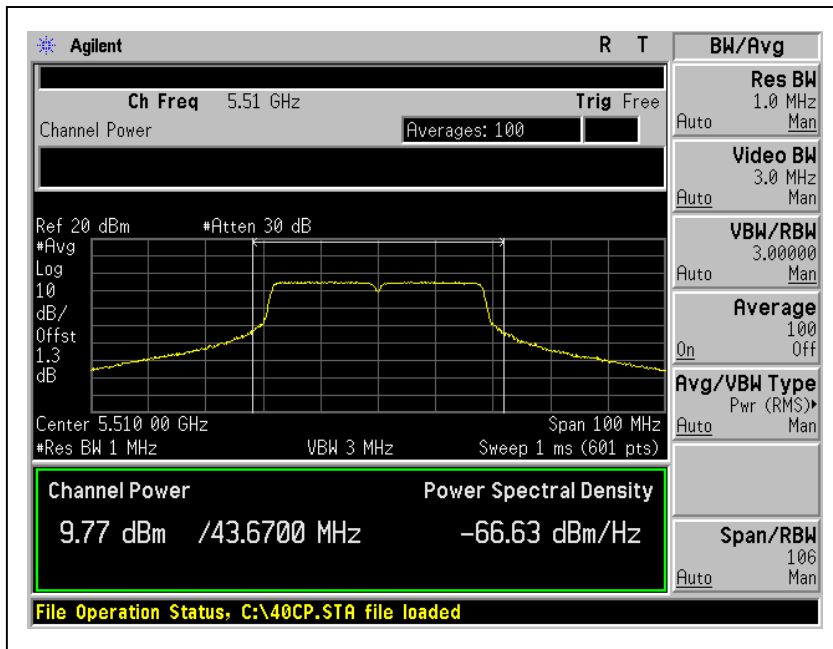
CH4



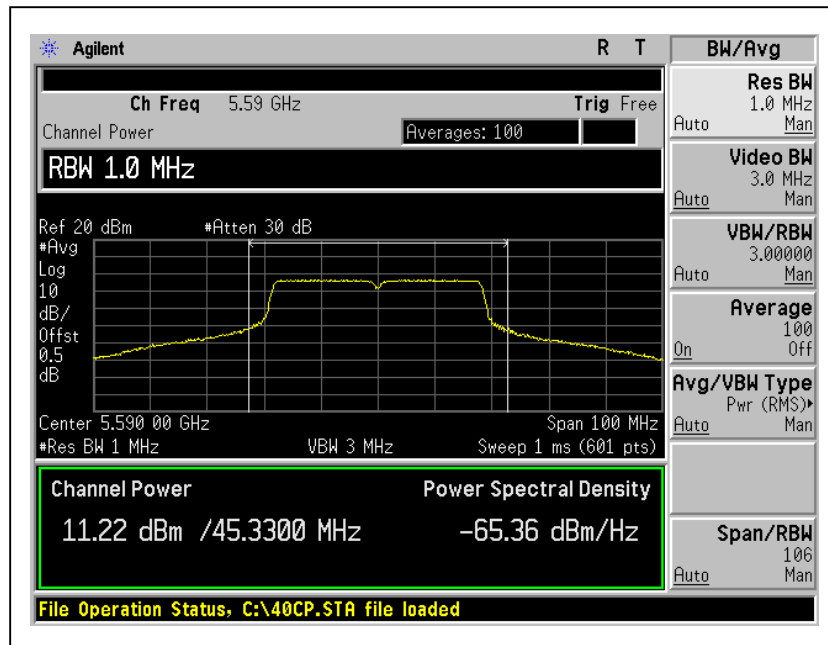


A D T

CH5



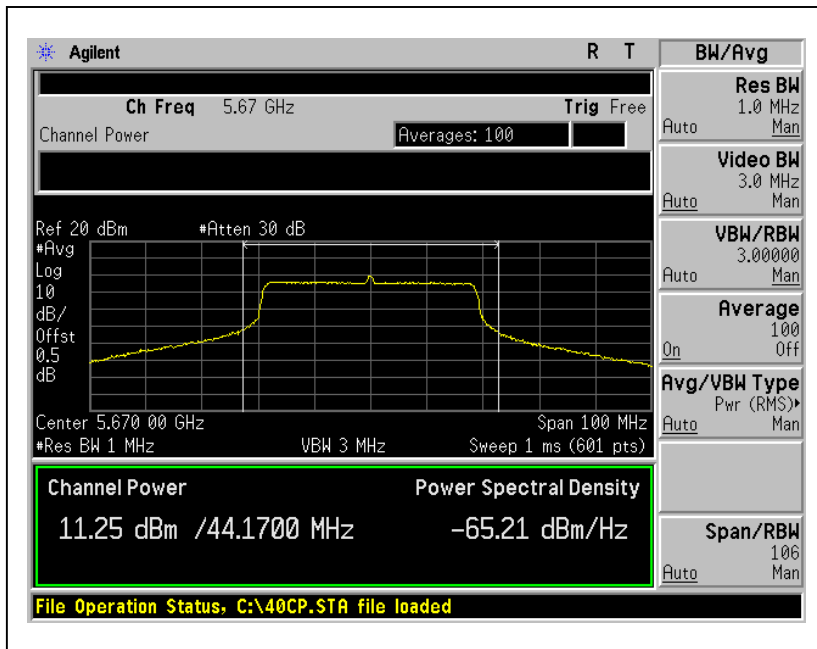
CH7



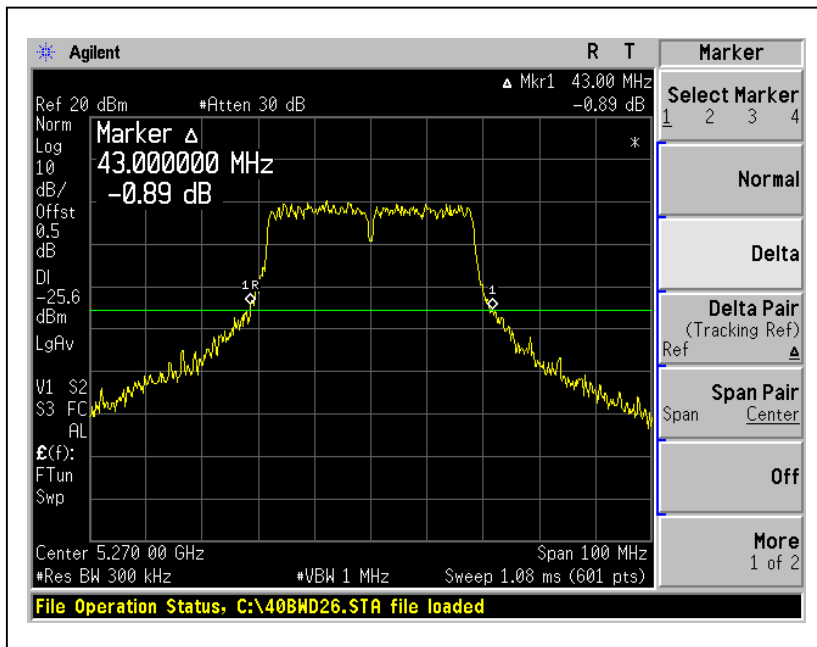


A D T

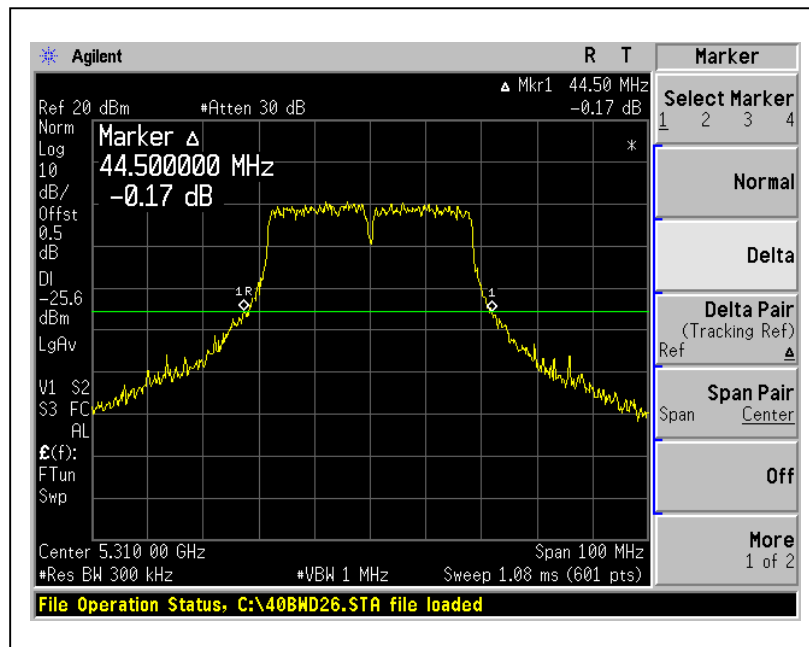
CH9



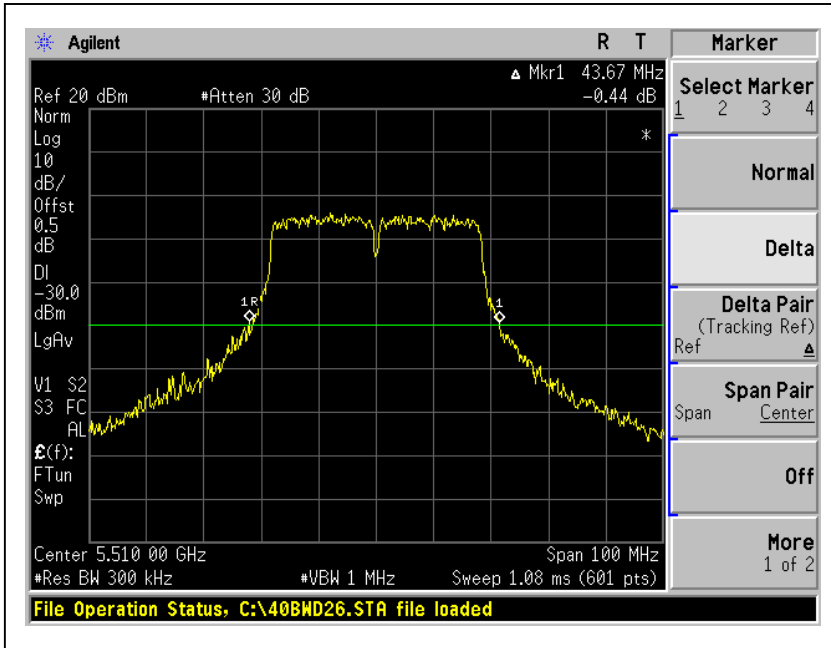
26dB Occupied Bandwidth:
CH3



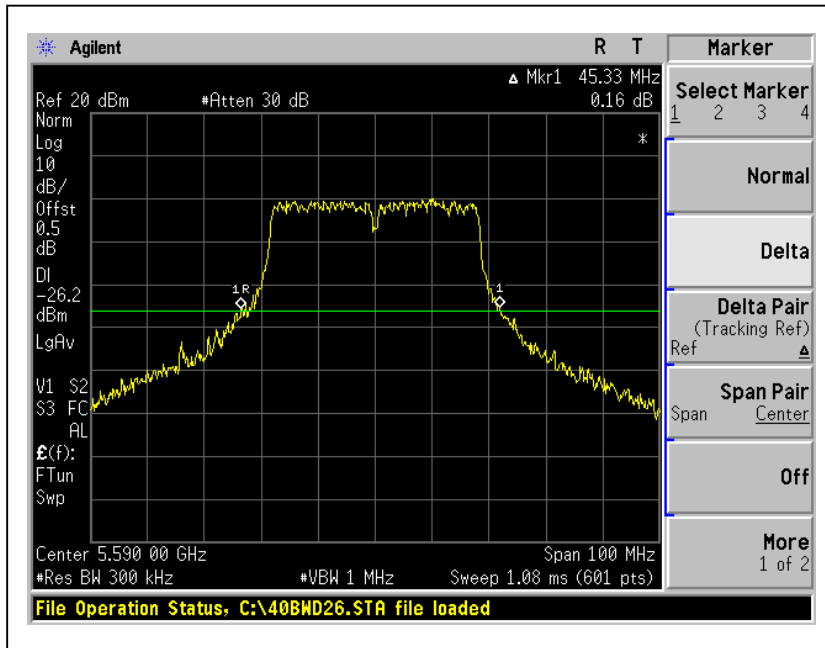
CH4



CH5



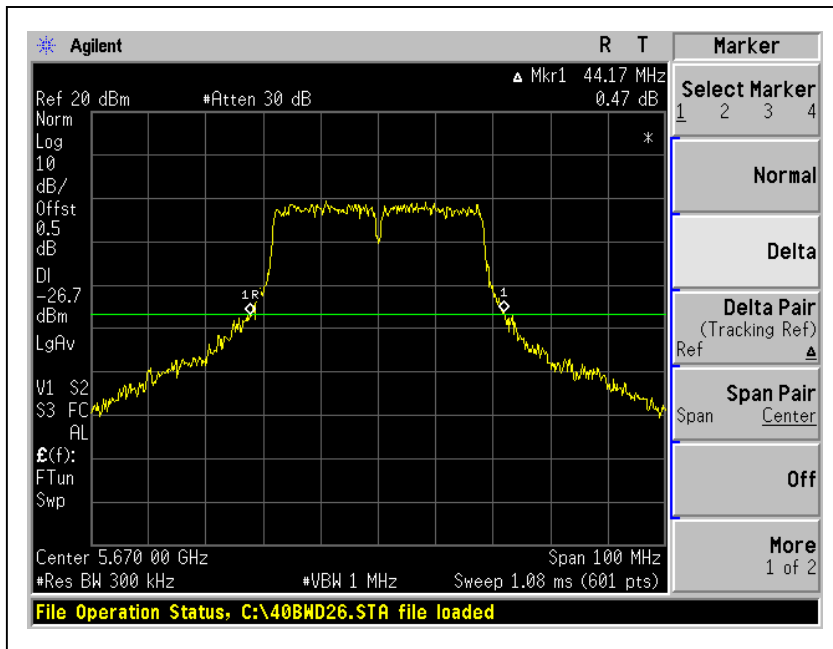
CH7





A D T

CH9





A D T

4.3.8 TEST RESULTS – ANTENNA 5

802.11a OFDM MODULATION:

| | | | |
|------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 6Mbps |
| INPUT POWER | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 26deg.C, 63%RH, 965hPa |
| TESTED BY | Wen Yu | | |

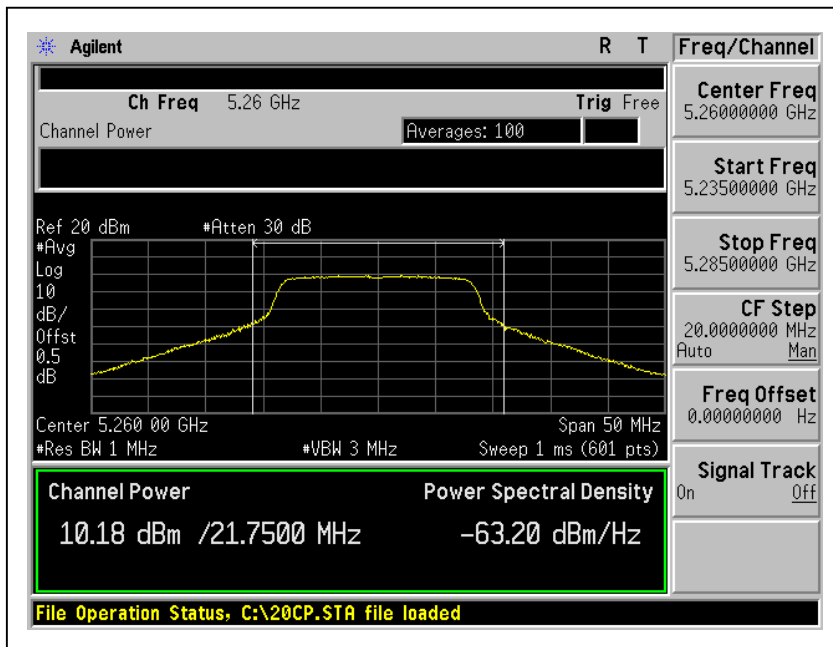
| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER OUTPUT (dBm) | | | PEAK POWER OUTPUT (mW) | | | TOTAL PEAK POWER (dBm) | TOTAL PEAK POWER (mW) | PEAK POWER LIMIT (dBm) | 26dBc Occupied Bandwidth (MHz) | PASS/ FAIL |
|---------|-------------------------|-------------------------|---------|---------|------------------------|---------|---------|------------------------|-----------------------|------------------------|--------------------------------|------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 0 | Chain 1 | Chain 2 | | | | | |
| 5 | 5260 | 10.18 | 8.74 | 9.89 | 10.423 | 7.482 | 9.750 | 14.42 | 27.655 | 17.00 | 21.75 | PASS |
| 7 | 5300 | 9.81 | 8.81 | 9.71 | 9.572 | 7.603 | 9.354 | 14.24 | 26.529 | 17.00 | 22.75 | PASS |
| 8 | 5320 | 9.55 | 8.97 | 10.01 | 9.016 | 7.889 | 10.023 | 14.30 | 26.928 | 17.00 | 22.58 | PASS |
| 9 | 5500 | 9.27 | 9.34 | 10.24 | 8.453 | 8.590 | 10.568 | 14.41 | 27.611 | 17.00 | 22.42 | PASS |
| 14 | 5600 | 9.7 | 9.65 | 10.12 | 9.333 | 9.226 | 10.280 | 14.60 | 28.839 | 17.00 | 22.58 | PASS |
| 19 | 5700 | 9.09 | 8.84 | 7.5 | 8.110 | 7.656 | 5.623 | 13.30 | 21.389 | 17.00 | 22.83 | PASS |

NOTE: 1. The 26dBc Occupied Bandwidth plot, please refer to the following pages.
2. Power limitation= $24-(13-6) = 17\text{dBm}$ (For non-point to point application).

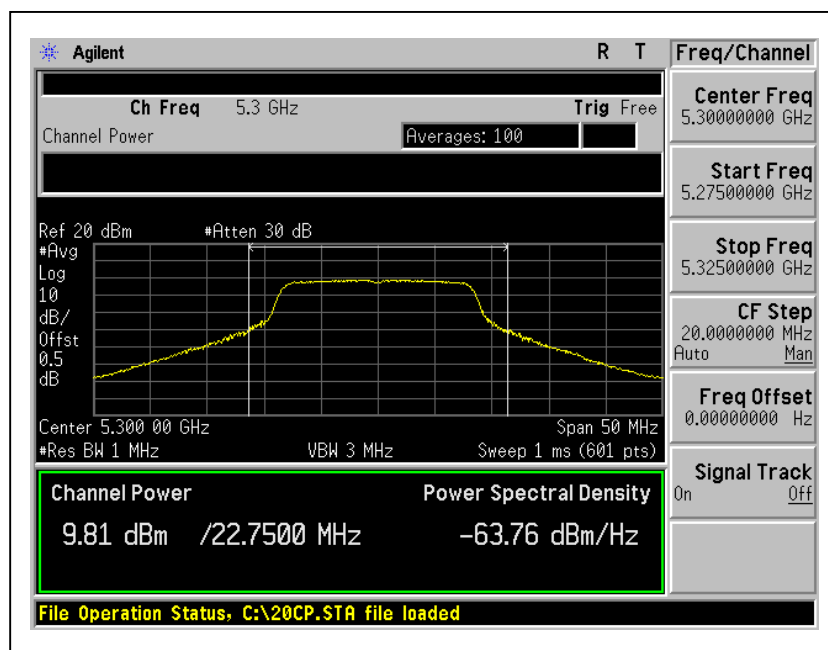


A D T

Peak Power Output: For Chain (0) :CH5



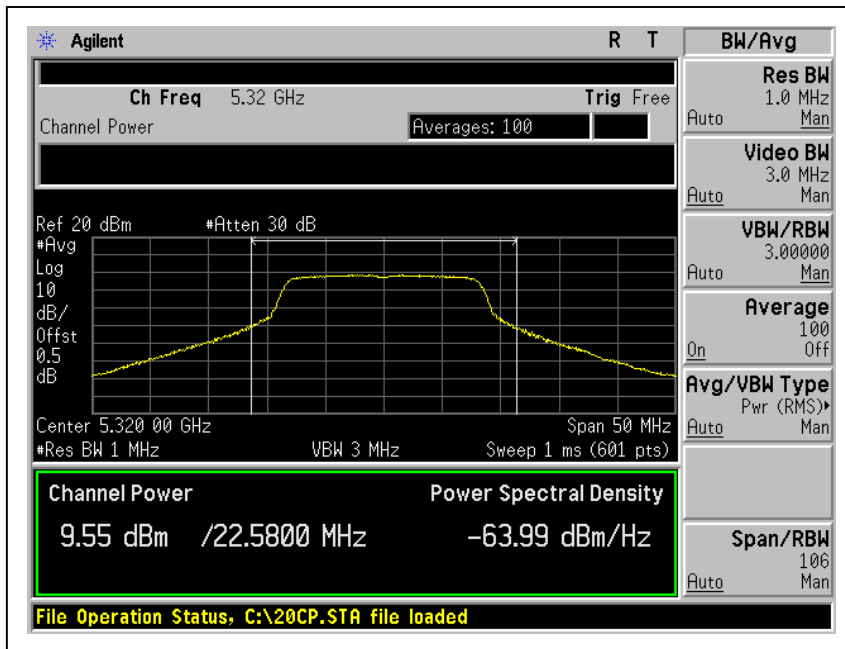
CH7



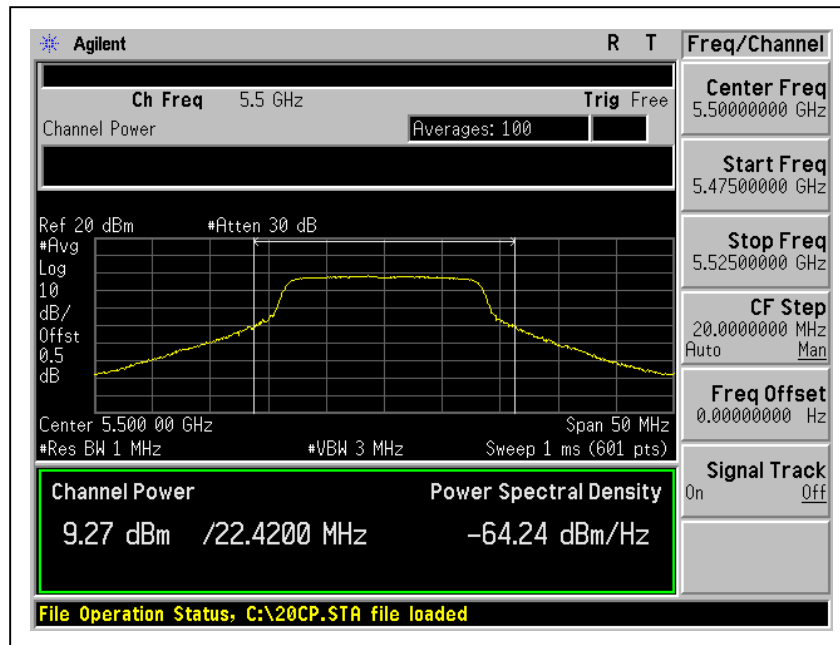


A D T

CH8



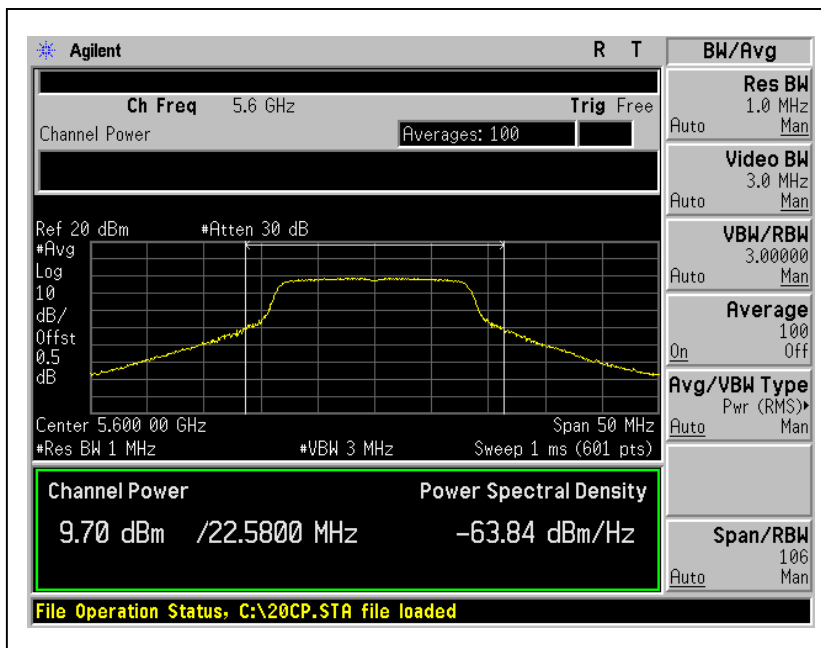
CH9



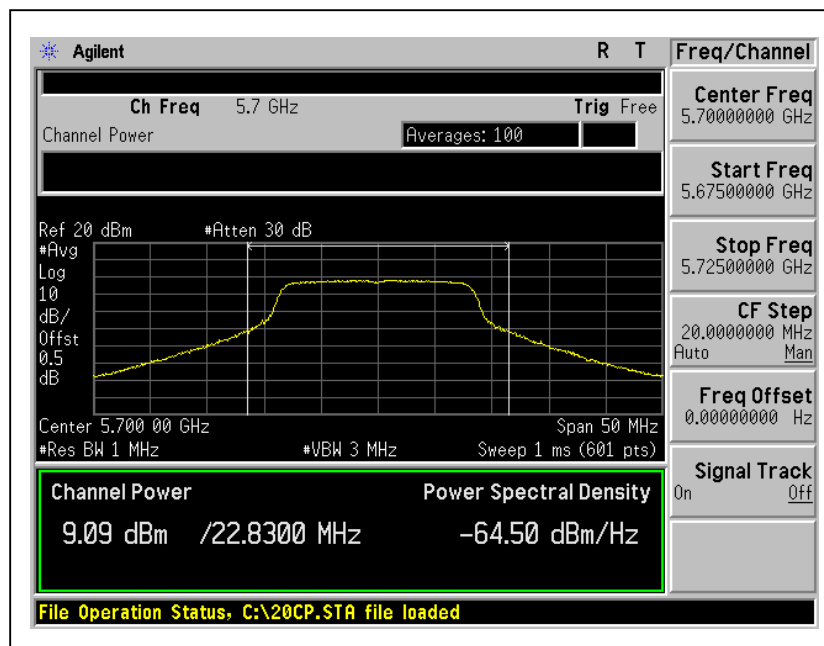


A D T

CH14



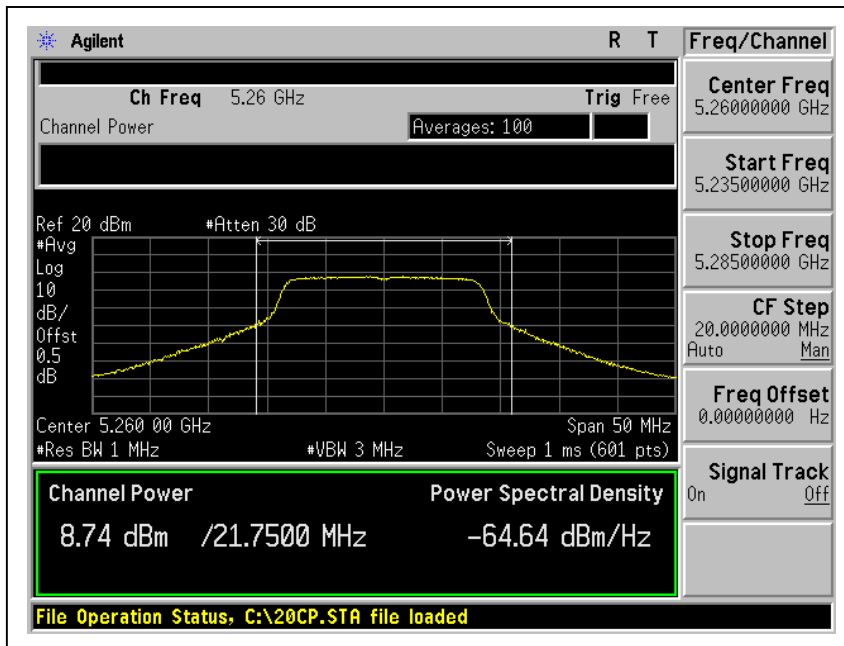
CH19



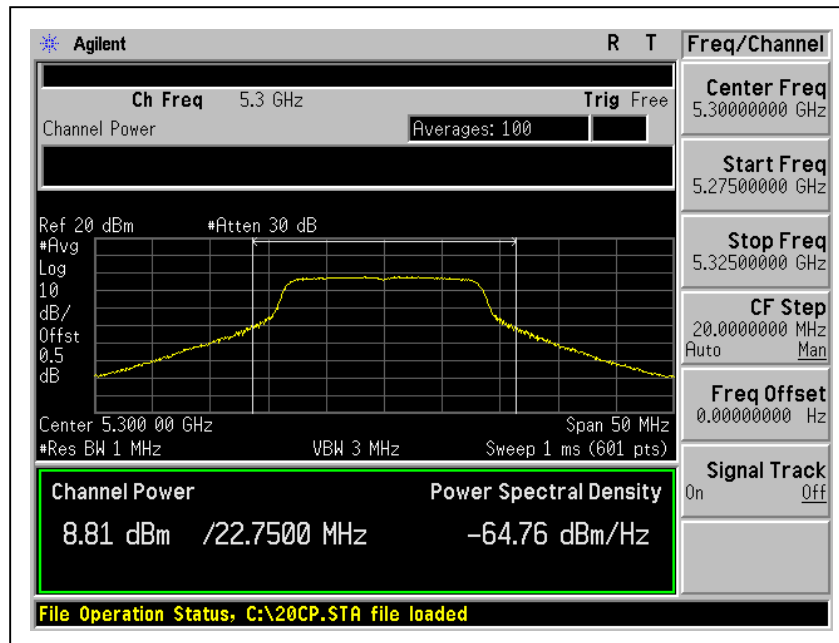


A D T

For Chain (1) :CH5



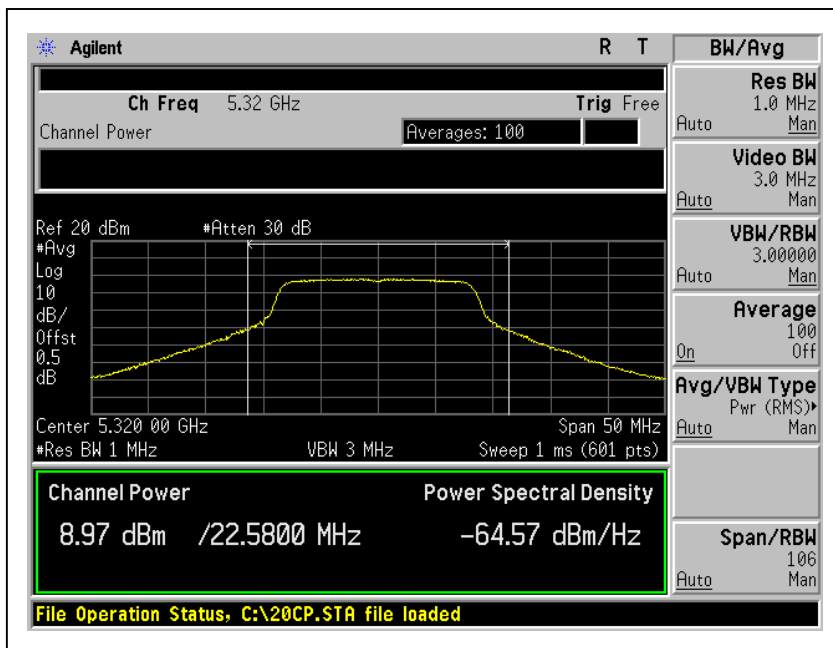
CH7



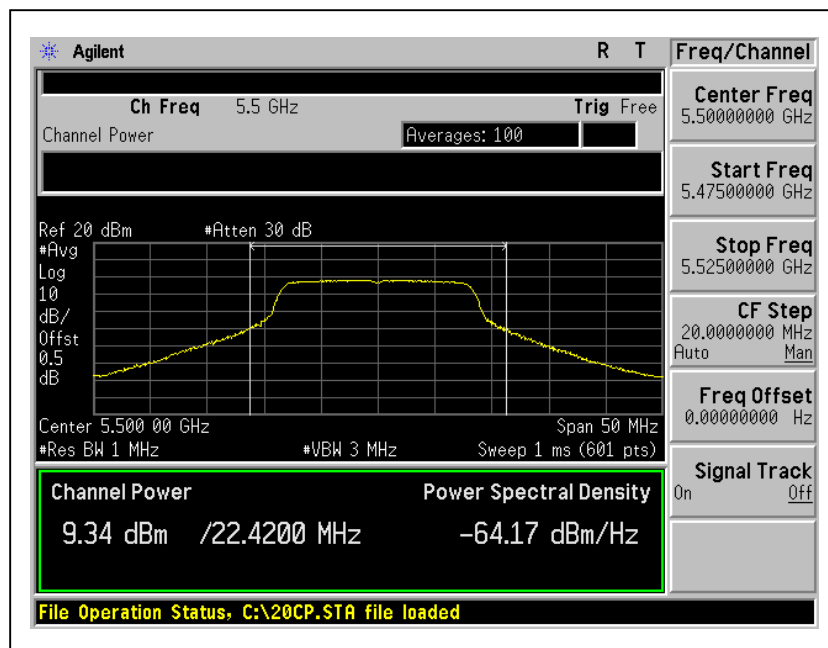


A D T

CH8



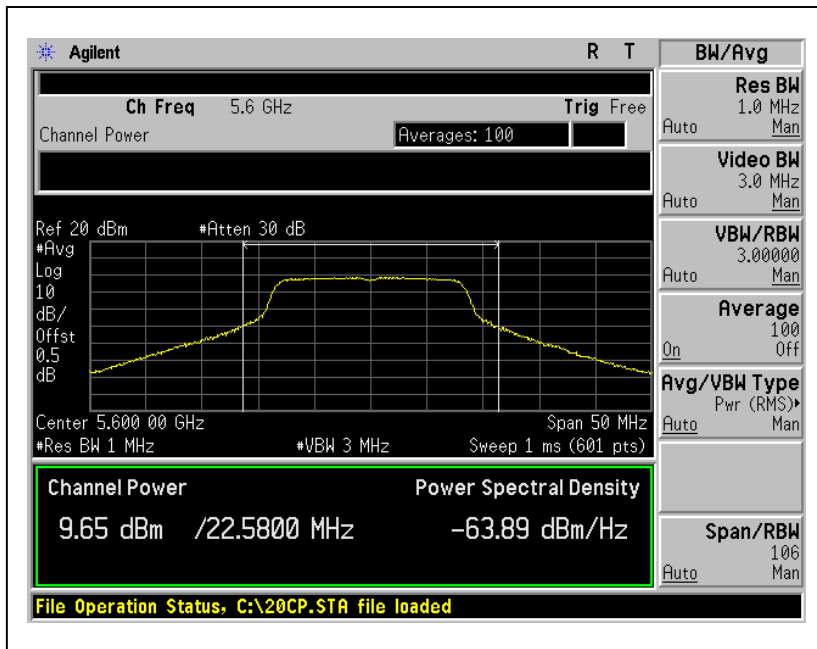
CH9



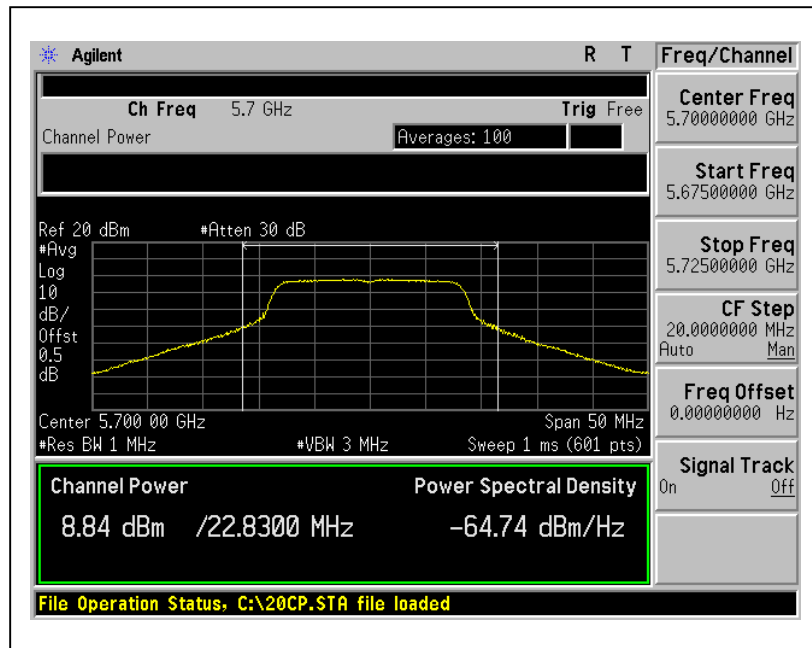


A D T

CH14



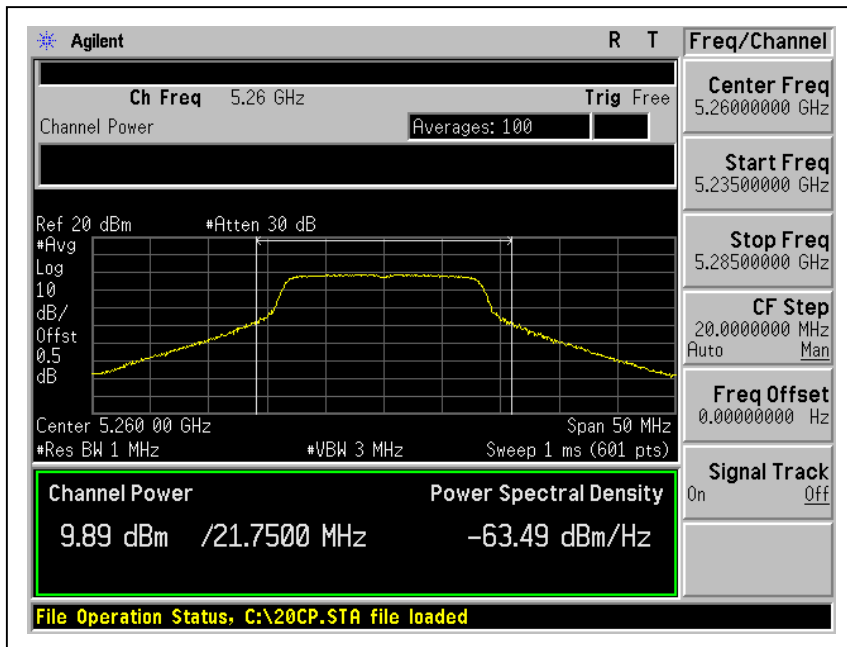
CH19



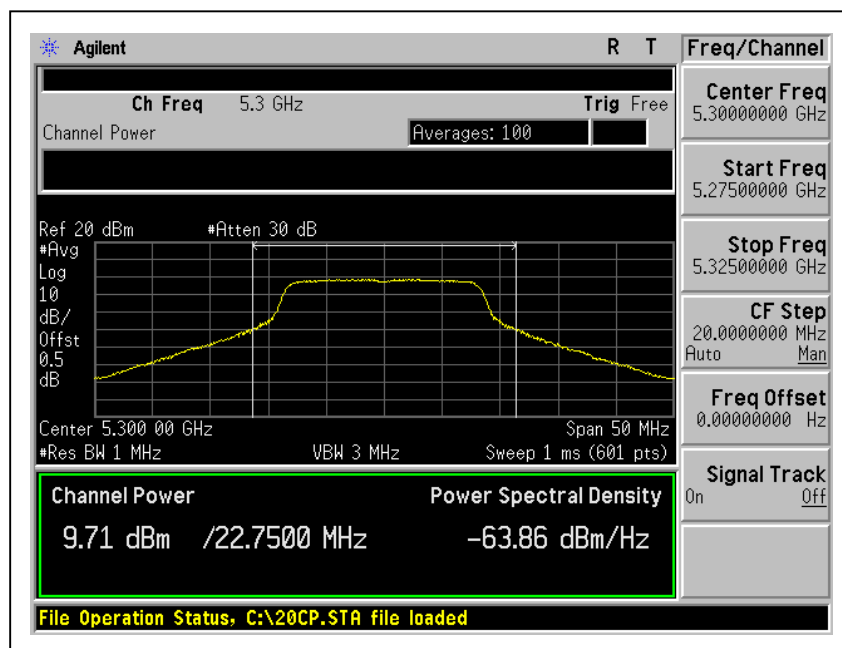


A D T

For Chain (2) :CH5



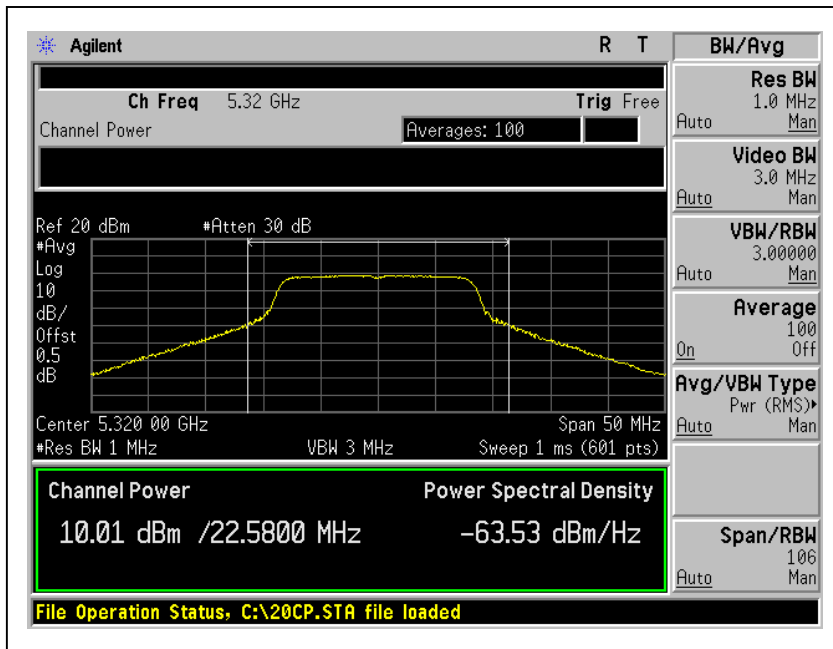
CH7



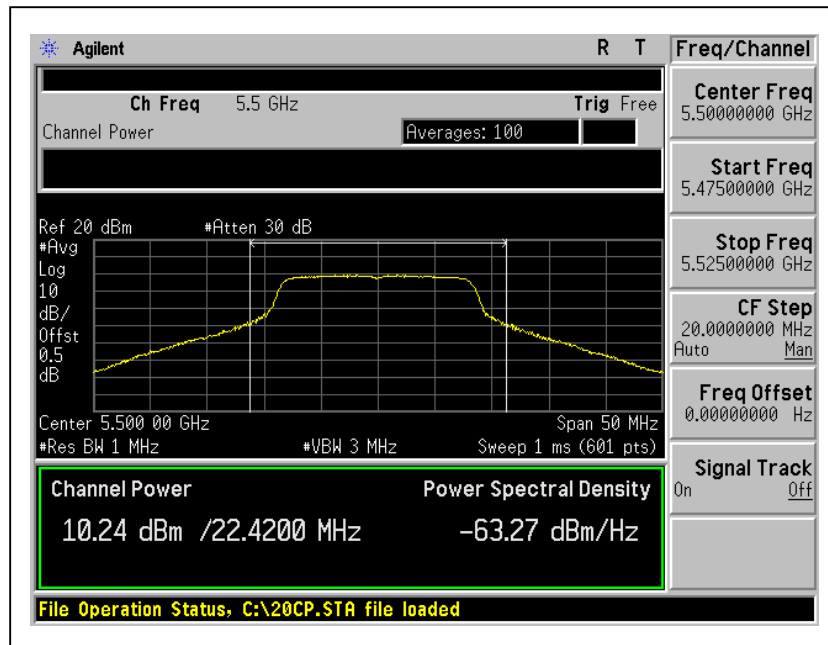


A D T

CH8



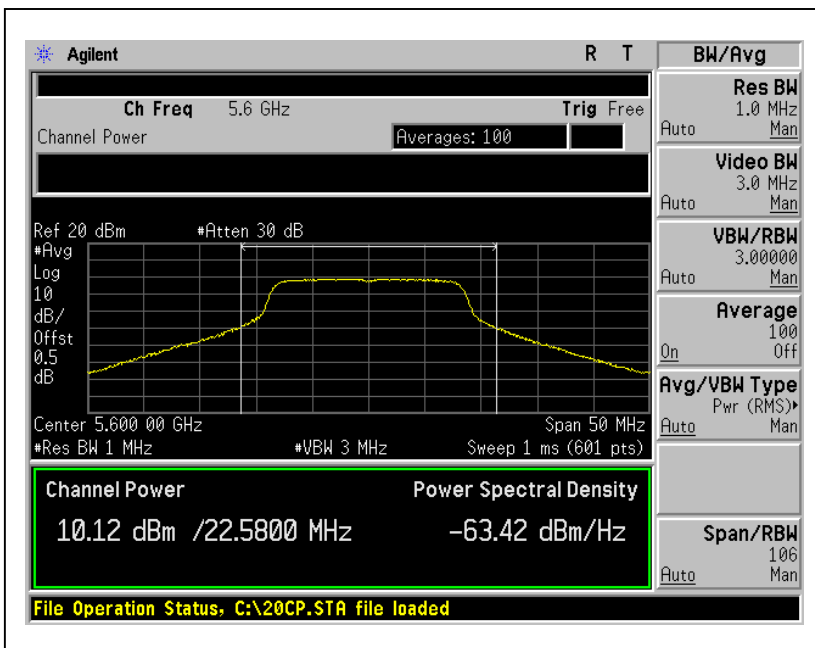
CH9



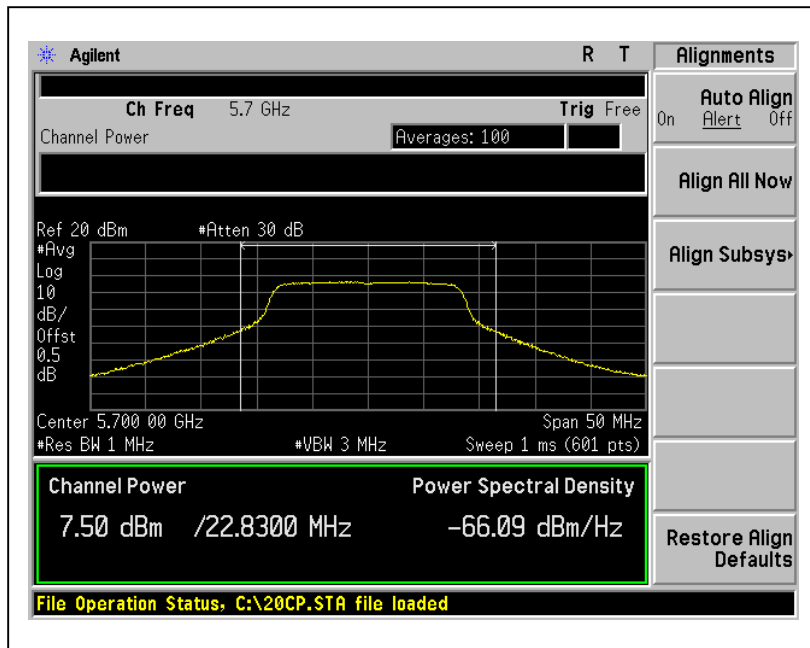


A D T

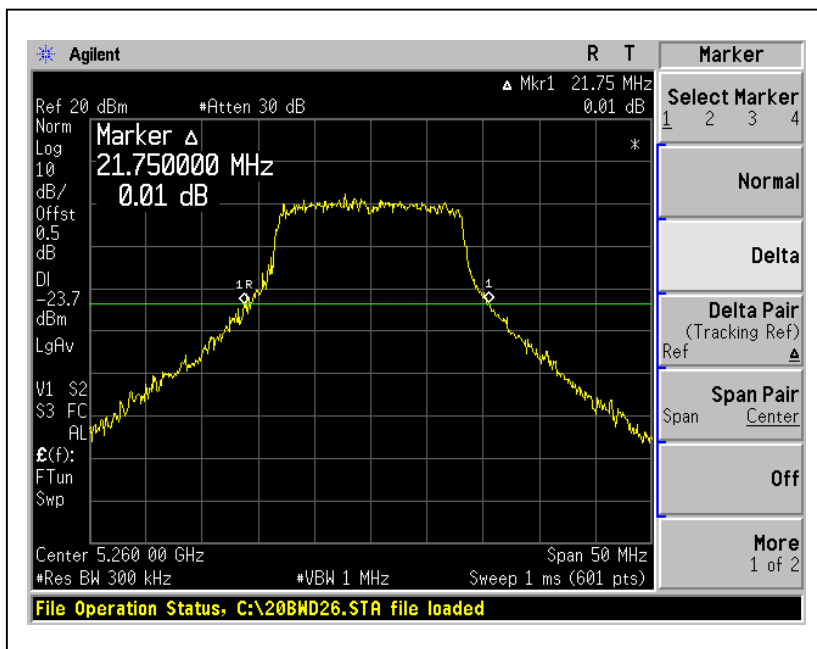
CH14



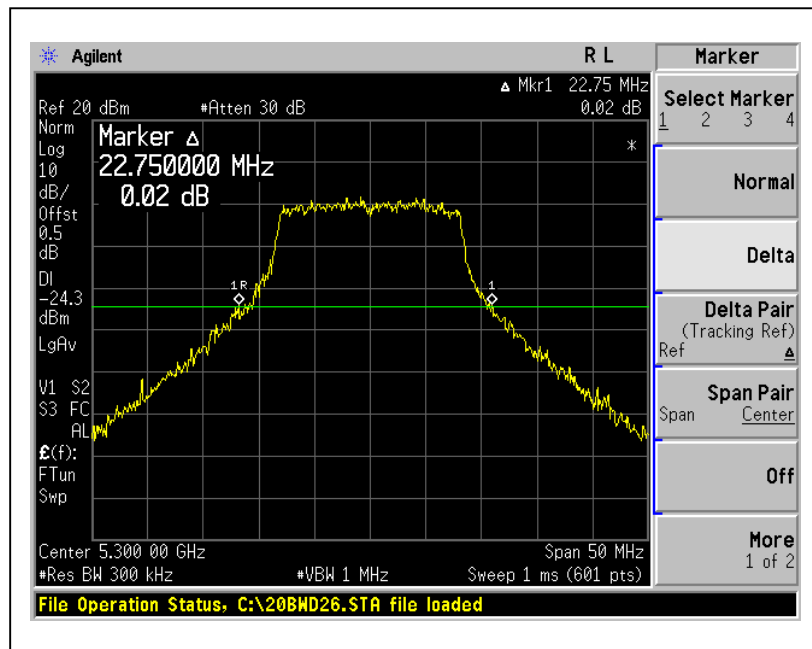
CH19



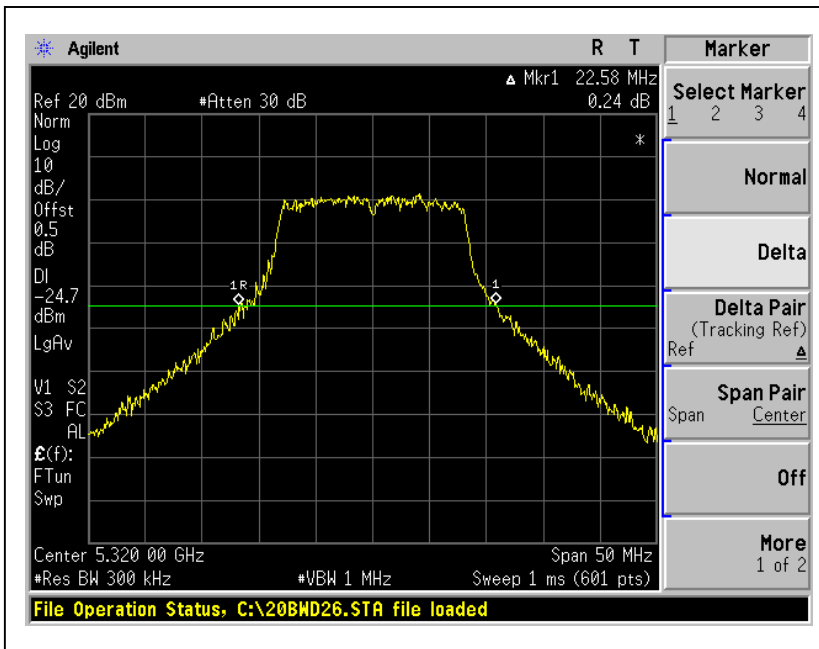
26dB Occupied Bandwidth:
CH5



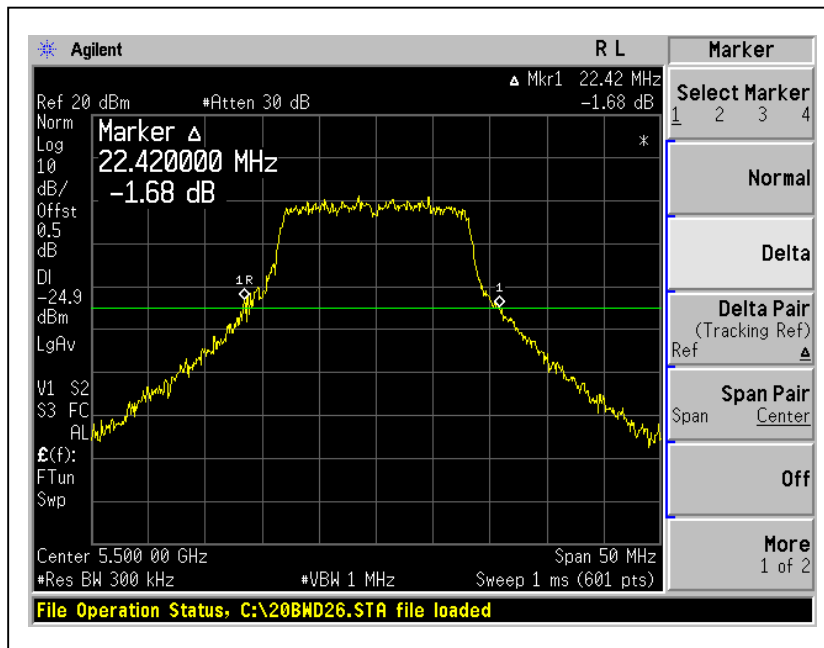
CH7



CH8



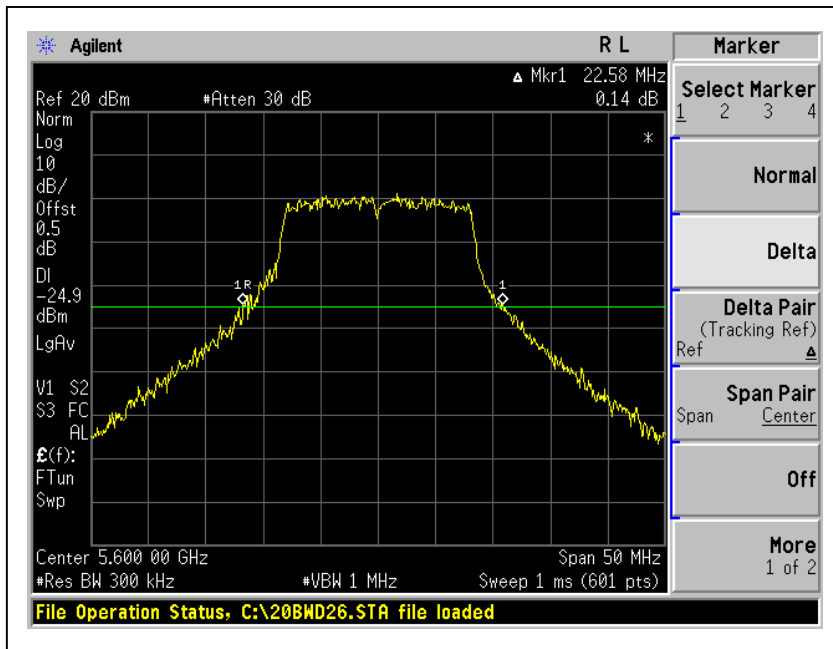
CH9



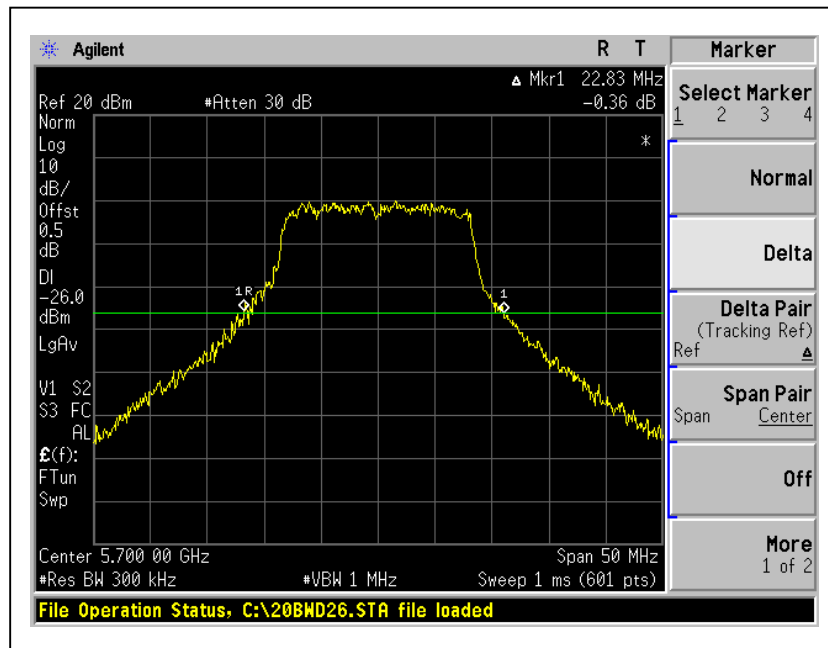


A D T

CH14



CH19





A D T

DRAFT 802.11n (20MHz) OFDM modulation:

| | | | |
|------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 6.5Mbps |
| INPUT POWER | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 26deg.C, 63%RH, 965hPa |
| TESTED BY | Wen Yu | | |

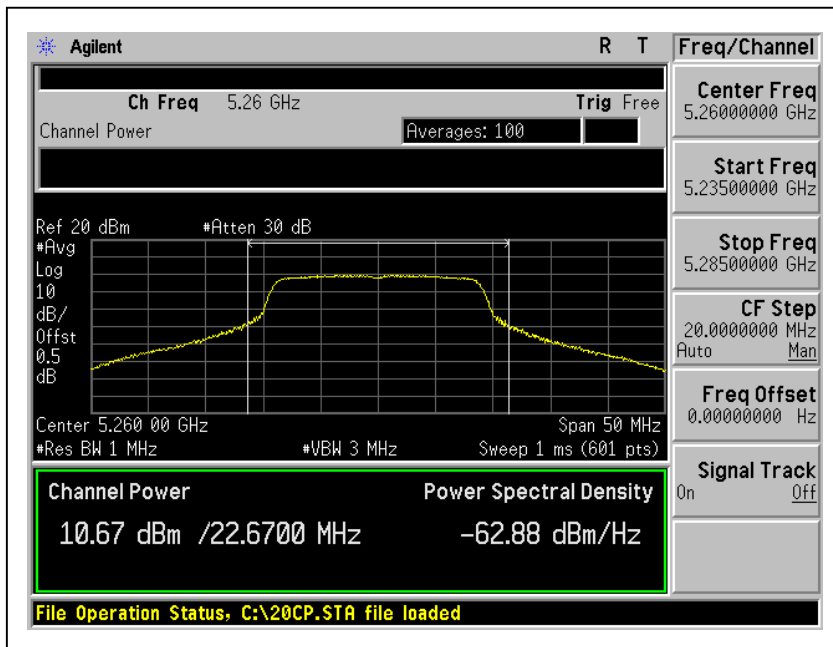
| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER OUTPUT (dBm) | | | PEAK POWER OUTPUT (mW) | | | TOTAL PEAK POWER (dBm) | TOTAL PEAK POWER (mW) | PEAK POWER LIMIT (dBm) | 26dBc Occupied Bandwidth (MHz) | PASS/ FAIL |
|---------|-------------------------|-------------------------|---------|---------|------------------------|---------|---------|------------------------|-----------------------|------------------------|--------------------------------|------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 0 | Chain 1 | Chain 2 | | | | | |
| 5 | 5260 | 10.67 | 9.45 | 10.05 | 11.668 | 8.810 | 10.116 | 14.86 | 30.594 | 17.00 | 22.67 | PASS |
| 7 | 5300 | 9.76 | 8.82 | 9.51 | 9.462 | 7.621 | 8.933 | 14.15 | 26.016 | 17.00 | 23.50 | PASS |
| 8 | 5320 | 9.91 | 9.07 | 10.24 | 9.795 | 8.072 | 10.568 | 14.54 | 28.435 | 17.00 | 22.25 | PASS |
| 9 | 5500 | 9.2 | 9.15 | 10.18 | 8.318 | 8.222 | 10.423 | 14.31 | 26.963 | 17.00 | 23.08 | PASS |
| 14 | 5600 | 10.52 | 10.08 | 9.86 | 11.272 | 10.186 | 9.683 | 14.93 | 31.141 | 17.00 | 22.75 | PASS |
| 19 | 5700 | 8.94 | 8.72 | 6.73 | 7.834 | 7.447 | 4.710 | 13.01 | 19.991 | 17.00 | 23.33 | PASS |

NOTE: 1. The 26dBc Occupied Bandwidth plot, please refer to the following pages.
2. Power limitation=24-(13-6) =17dBm (For non-point to point application).

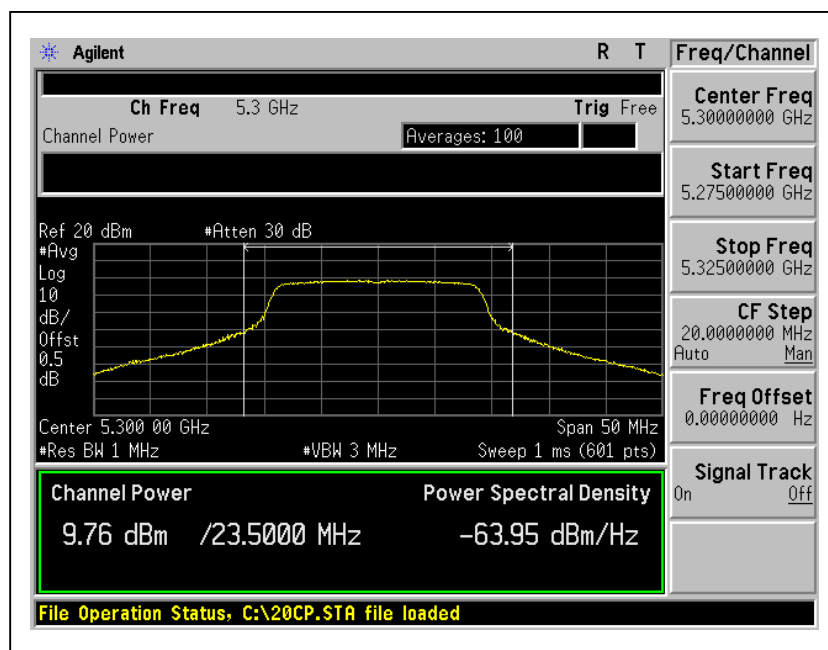


A D T

Peak Power Output: For Chain (0) :CH5



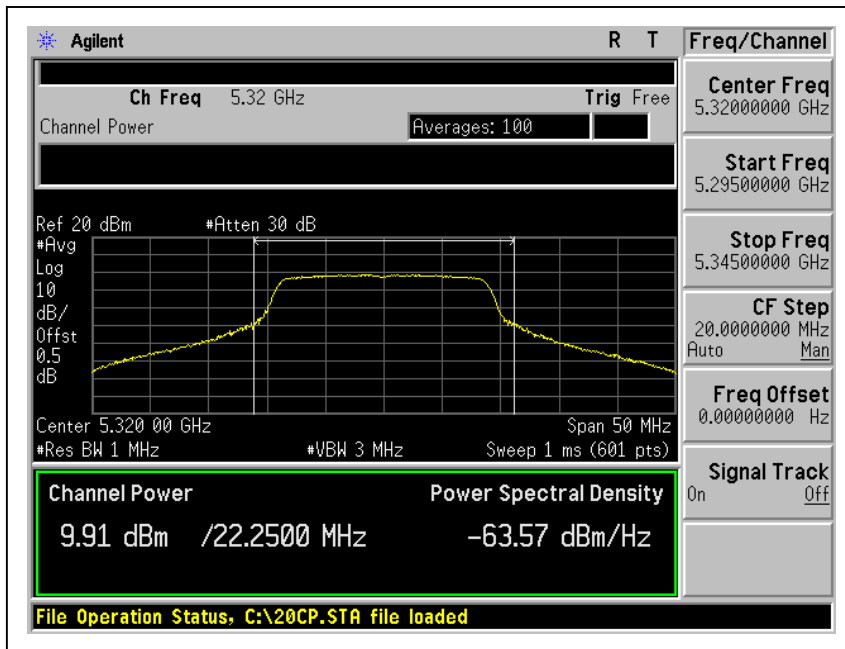
CH7



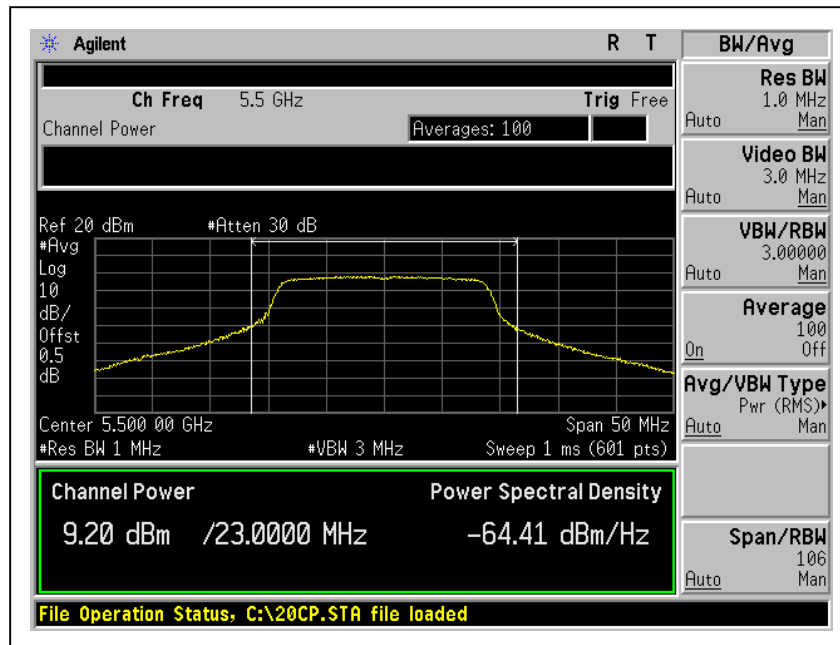


A D T

CH8



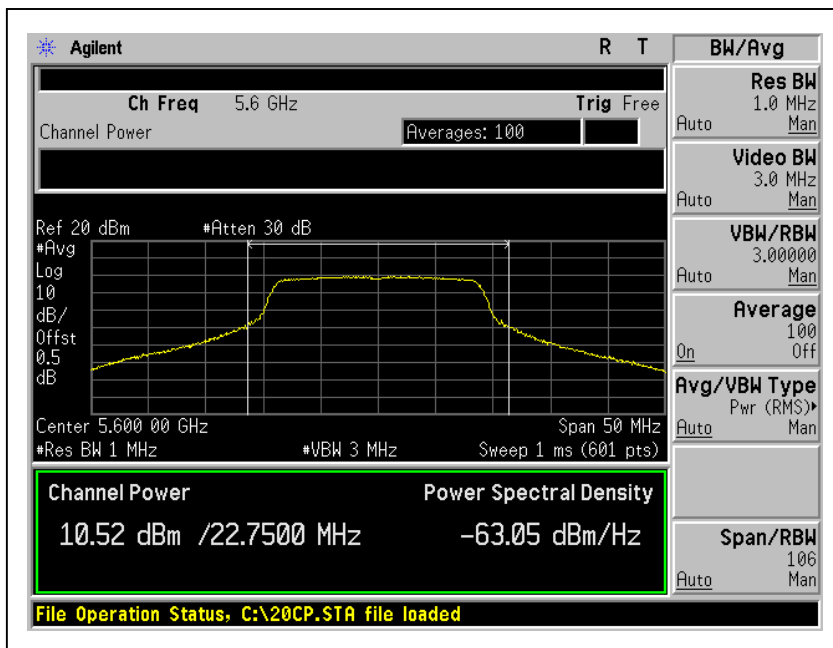
CH9



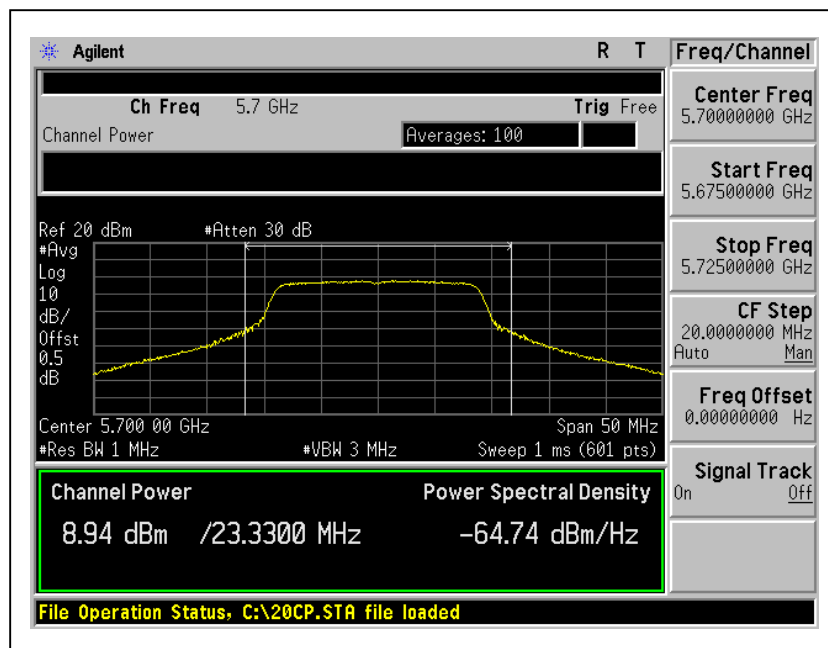


A D T

CH14



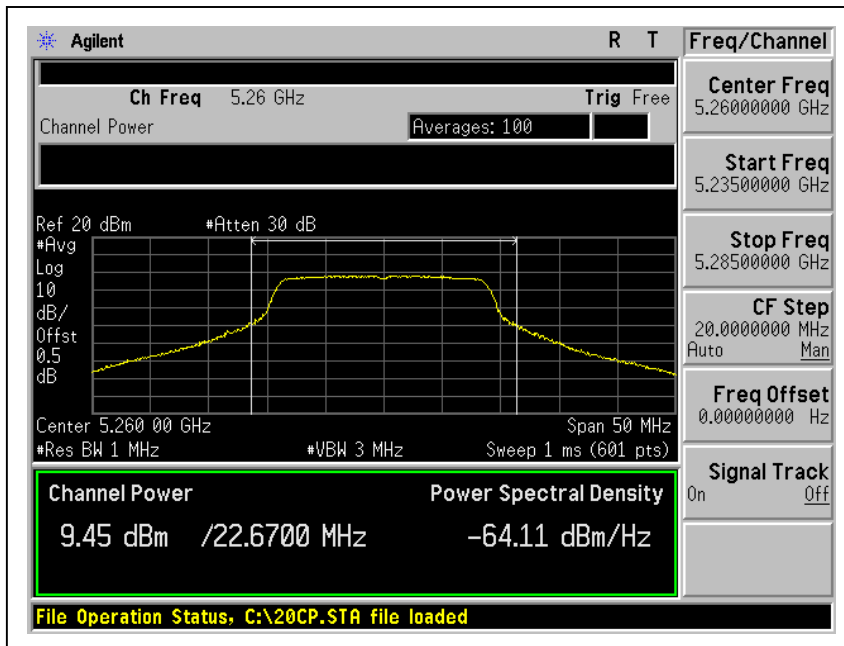
CH19



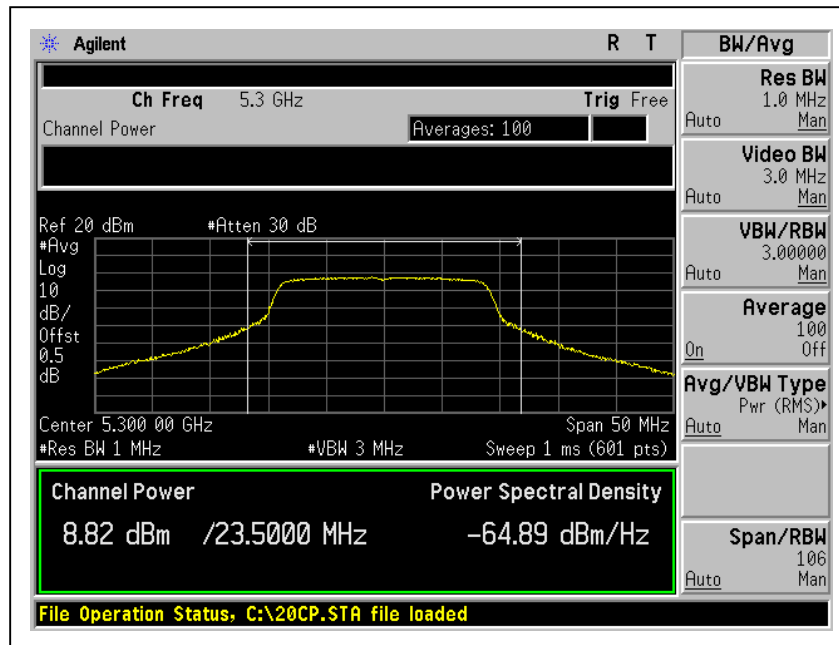


A D T

For Chain (1) :CH5



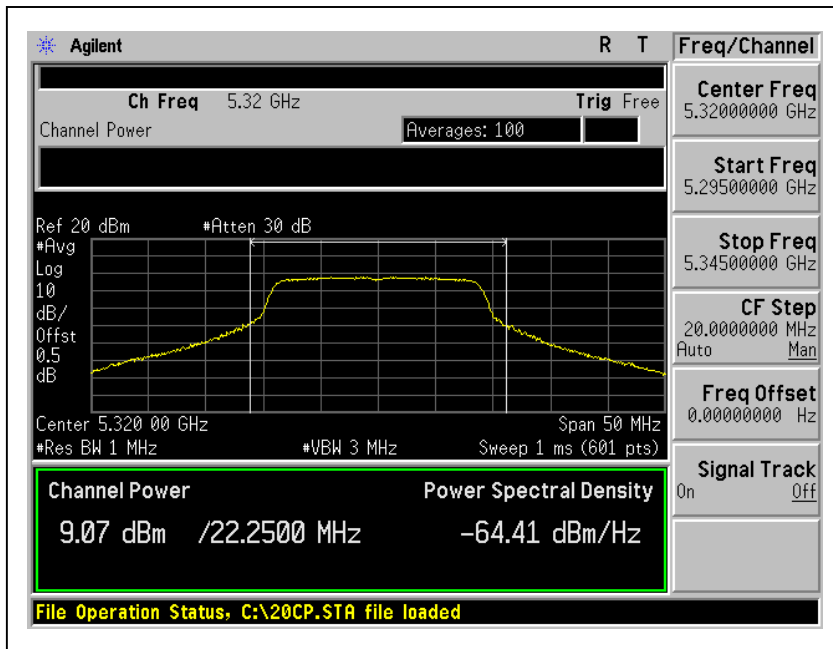
CH7



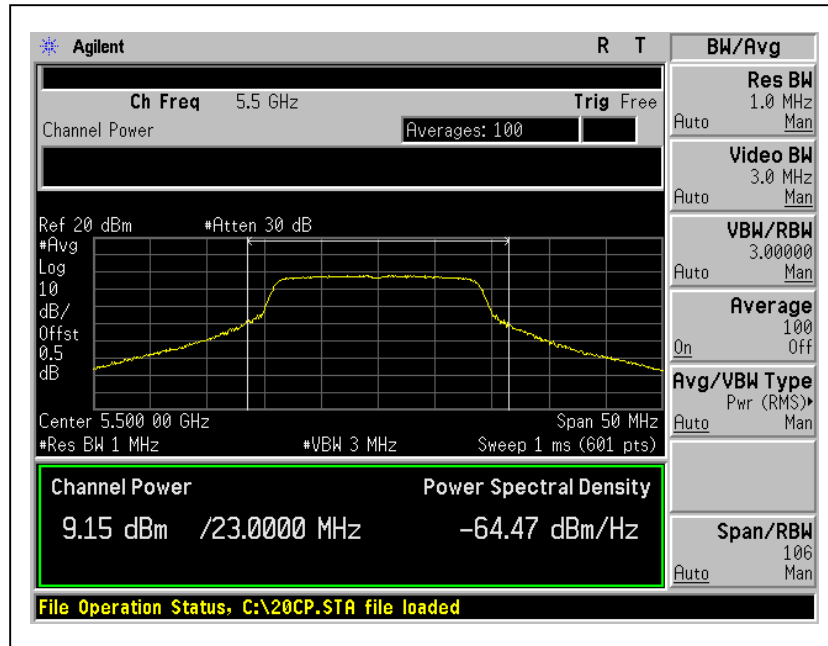


A D T

CH8



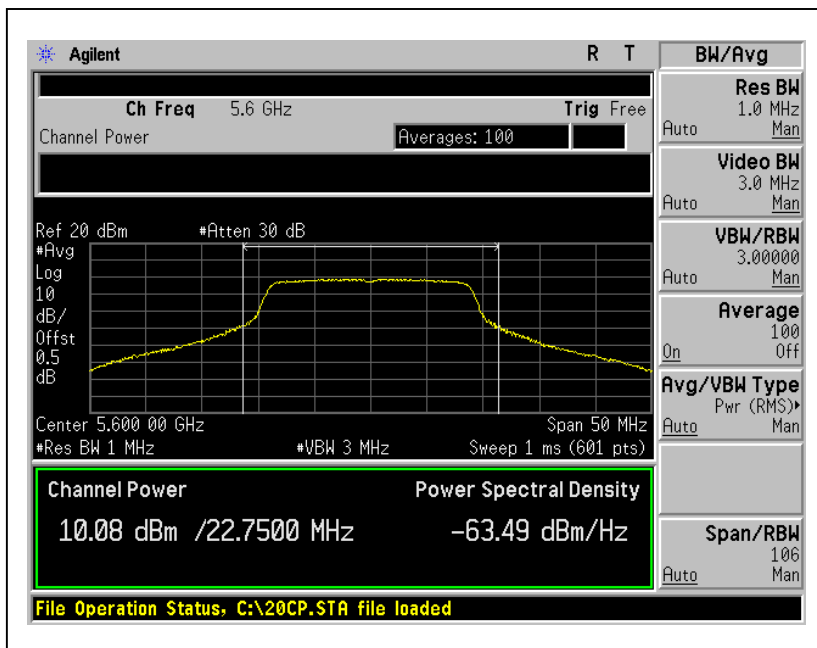
CH9



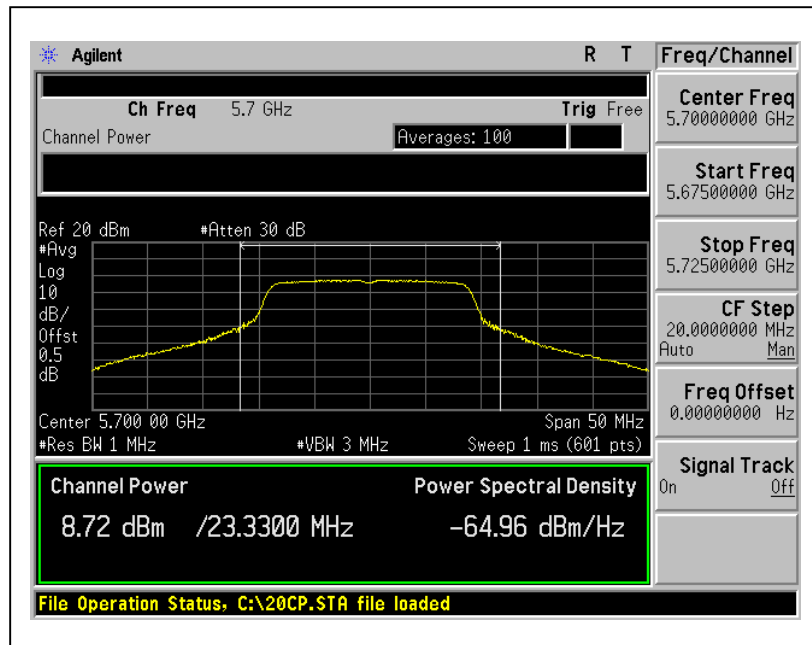


A D T

CH14



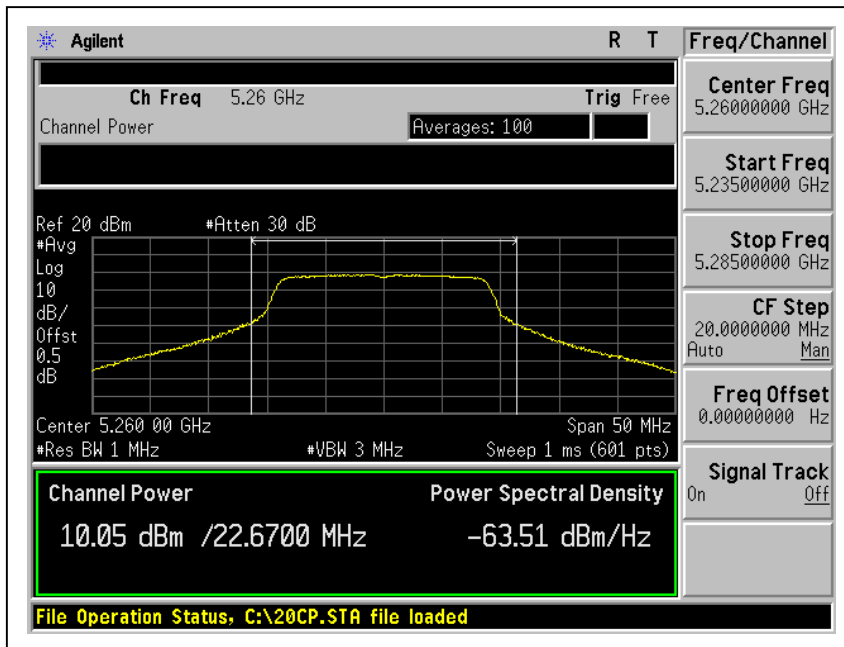
CH19



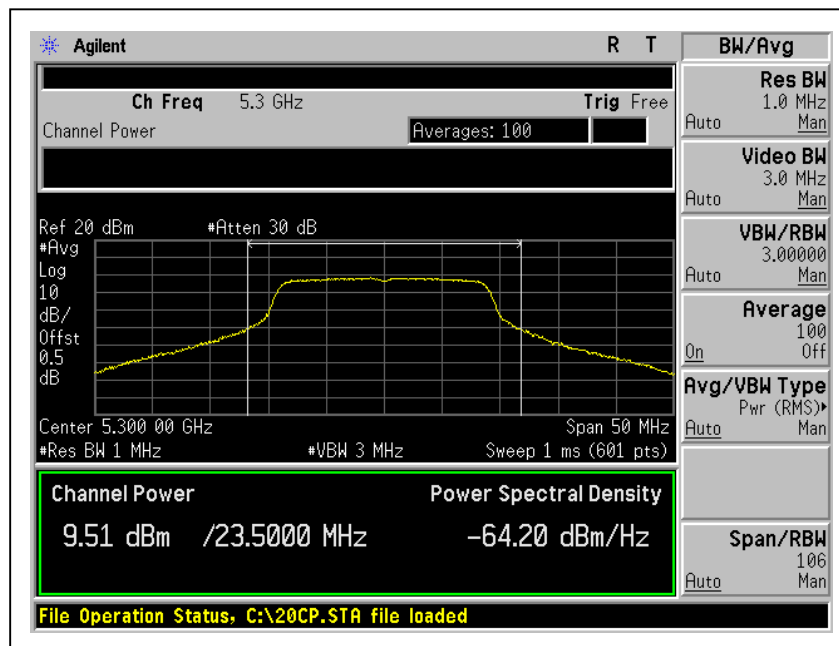


A D T

For Chain (2) :CH5



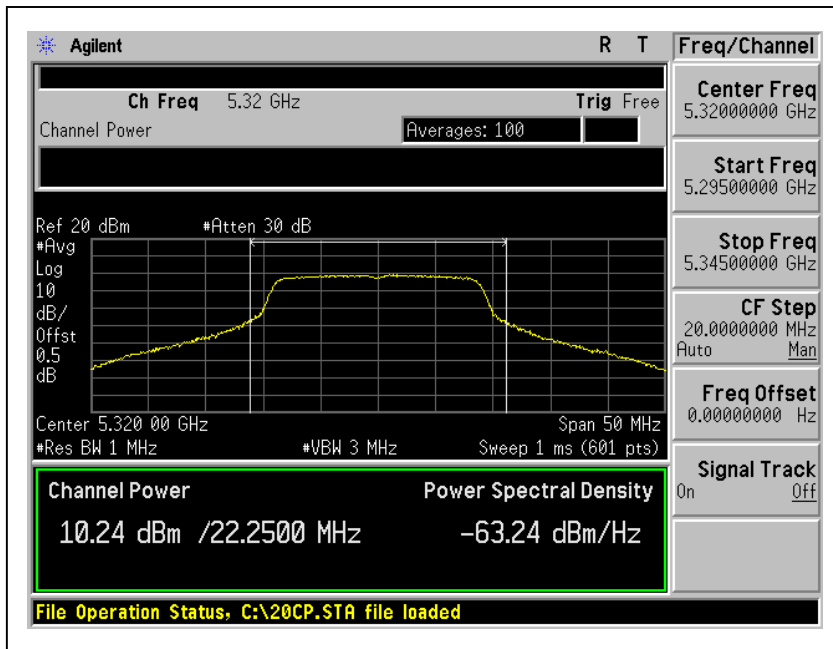
CH7



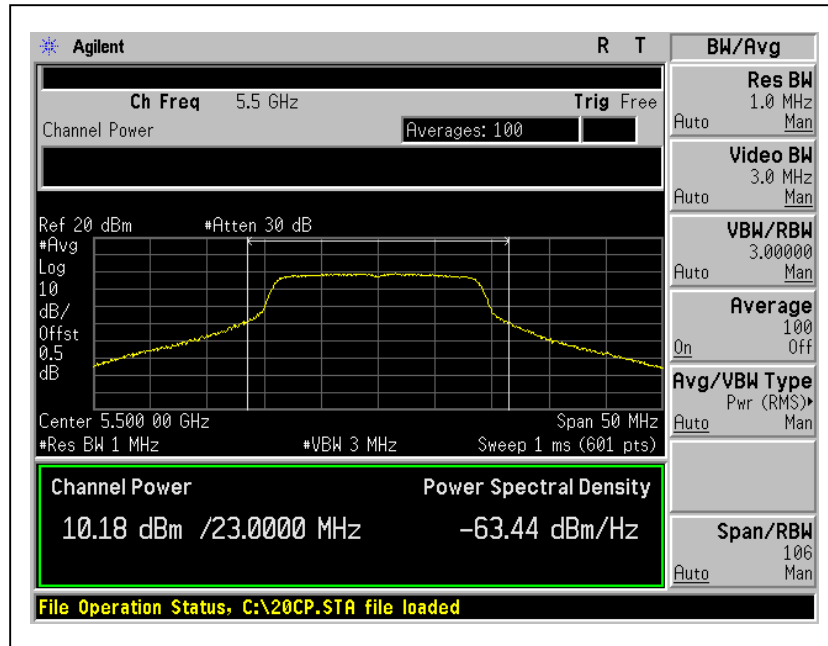


A D T

CH8



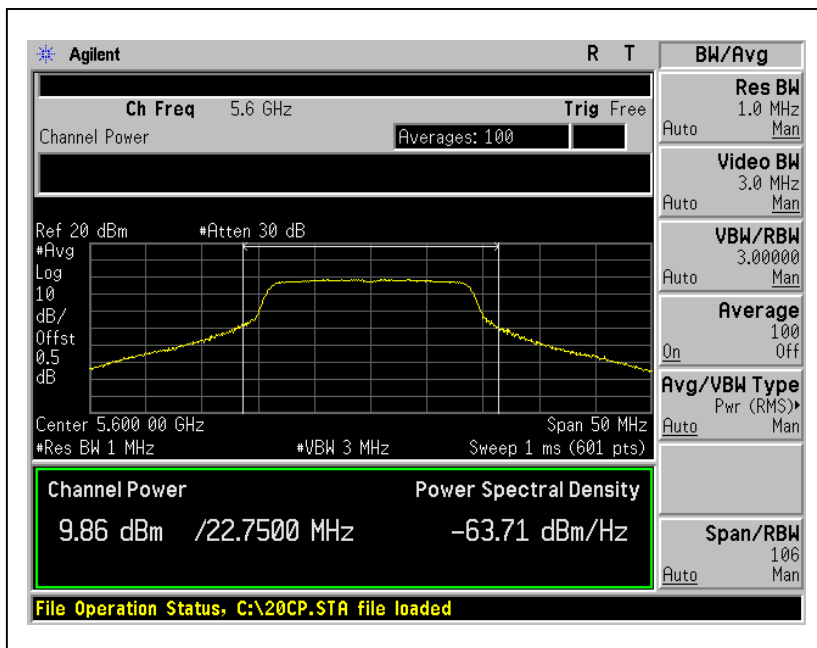
CH9



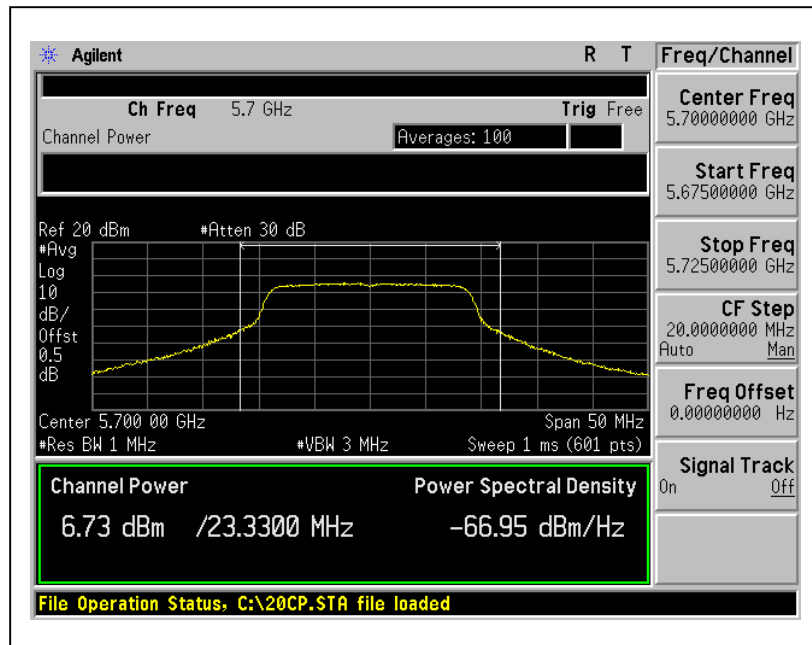


A D T

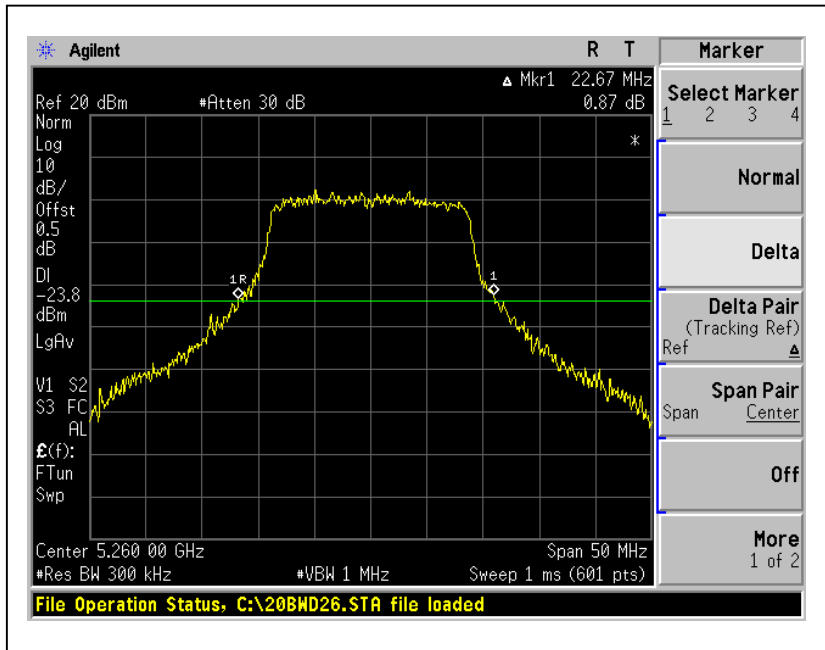
CH14



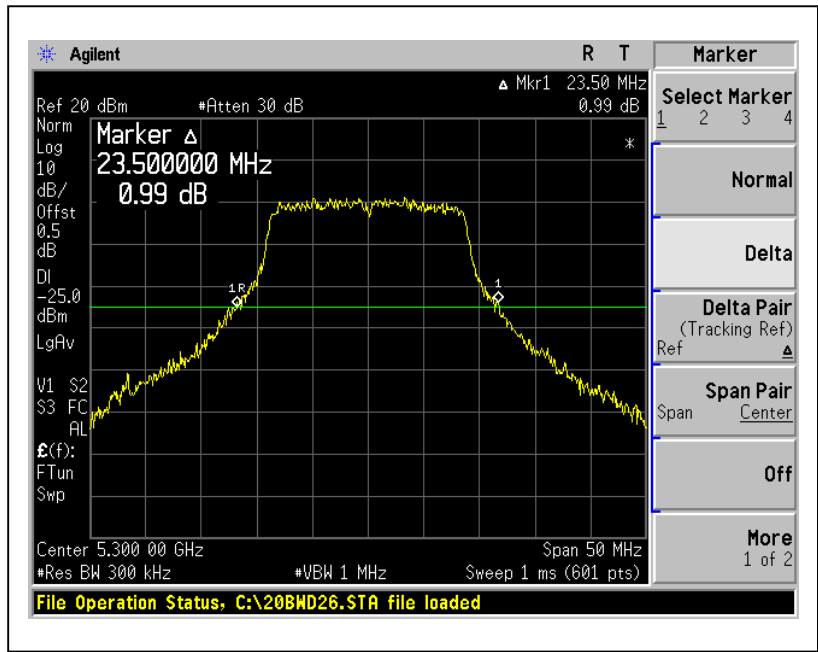
CH19



26dB Occupied Bandwidth:
CH5



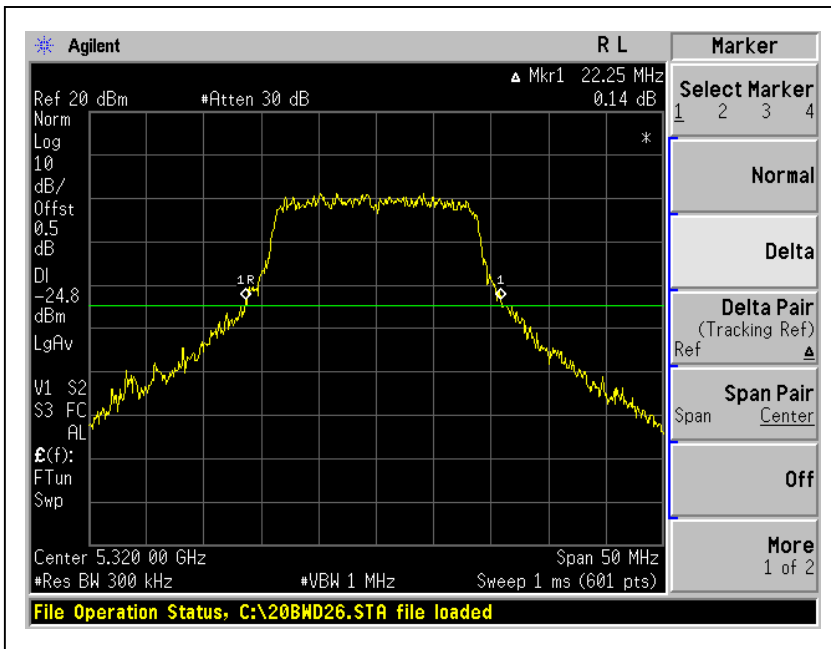
CH7



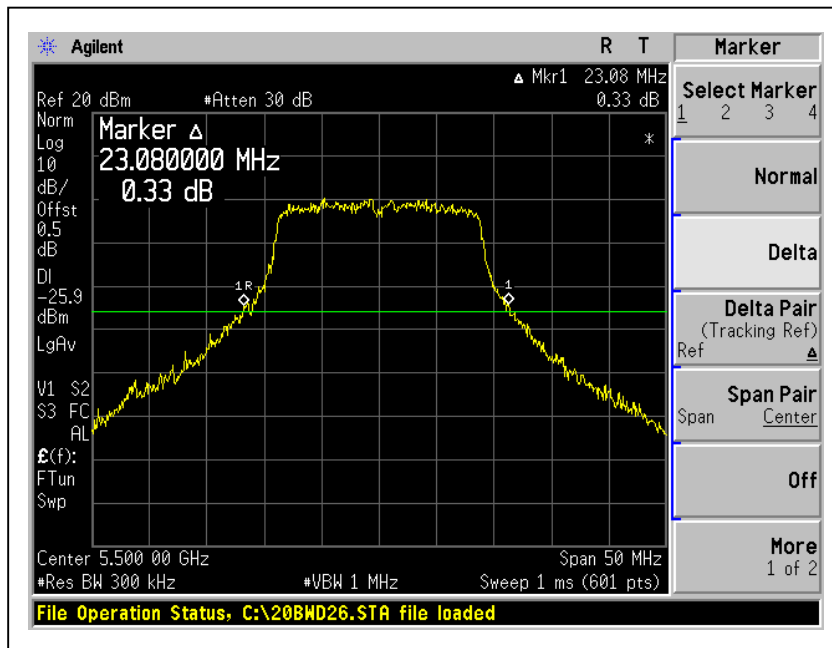


A D T

CH8



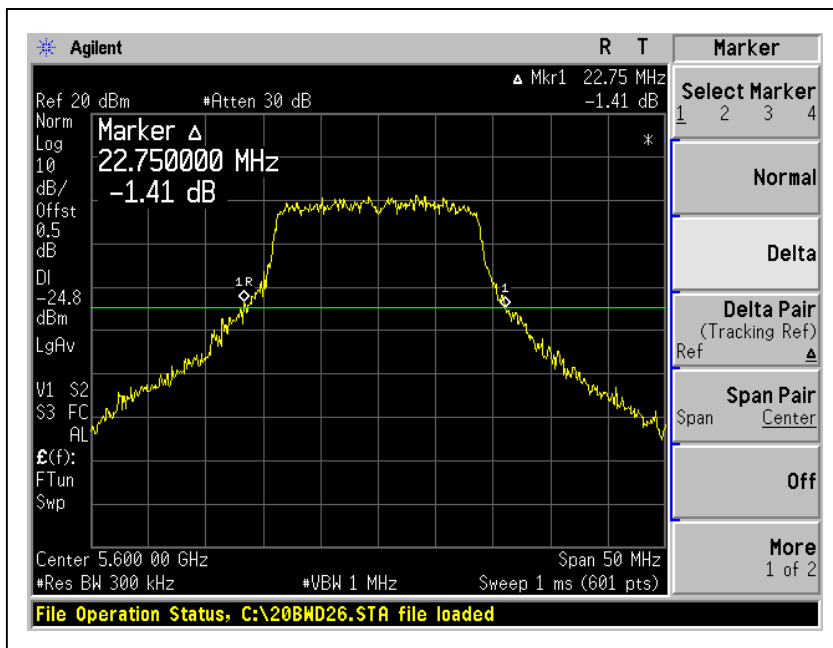
CH9



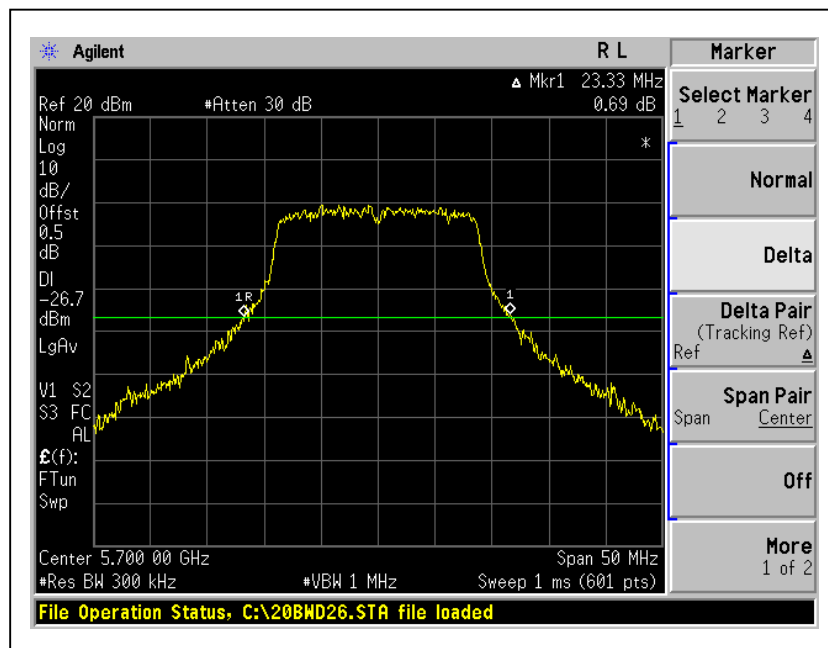


A D T

CH14



CH19





A D T

DRAFT 802.11n (40MHz) OFDM MODULATION:

| | | | |
|------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 13.5Mbps |
| INPUT POWER | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 26deg.C, 63%RH, 965hPa |
| TESTED BY | Wen Yu | | |

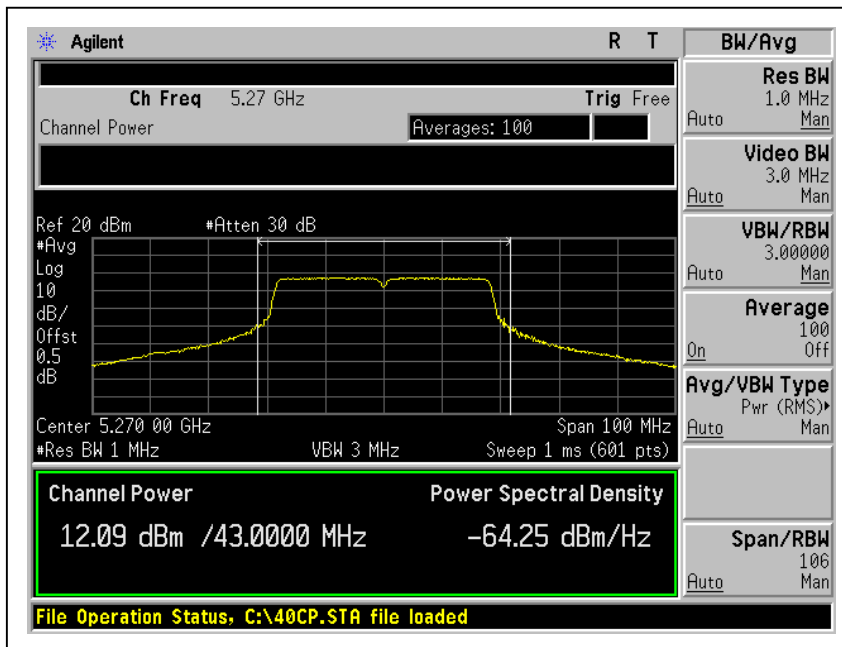
| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER OUTPUT (dBm) | | | PEAK POWER OUTPUT (mW) | | | TOTAL PEAK POWER (dBm) | TOTAL PEAK POWER (mW) | PEAK POWER LIMIT (dBm) | 26dBc Occupied Bandwidth (MHz) | PASS/ FAIL |
|---------|-------------------------|-------------------------|---------|---------|------------------------|---------|---------|------------------------|-----------------------|------------------------|--------------------------------|------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 0 | Chain 1 | Chain 2 | | | | | |
| 3 | 5270 | 12.09 | 10.94 | 11.07 | 16.181 | 12.417 | 12.794 | 16.17 | 41.392 | 17.00 | 43.00 | PASS |
| 4 | 5310 | 10.37 | 9.59 | 9.64 | 10.889 | 9.099 | 9.204 | 14.65 | 29.192 | 17.00 | 44.50 | PASS |
| 5 | 5510 | 4.41 | 4.15 | 5.34 | 2.761 | 2.600 | 3.420 | 9.44 | 8.781 | 17.00 | 44.33 | PASS |
| 7 | 5590 | 11.12 | 11.78 | 11.22 | 12.942 | 15.066 | 13.243 | 16.15 | 41.251 | 17.00 | 45.33 | PASS |
| 9 | 5670 | 12.09 | 11.52 | 11.25 | 16.181 | 14.191 | 13.335 | 16.41 | 43.707 | 17.00 | 44.17 | PASS |

NOTE: 1. The 26dBc Occupied Bandwidth plot, please refer to the following pages.
 2. Power limitation=24-(13-6) =17dBm (For non-point to point application).

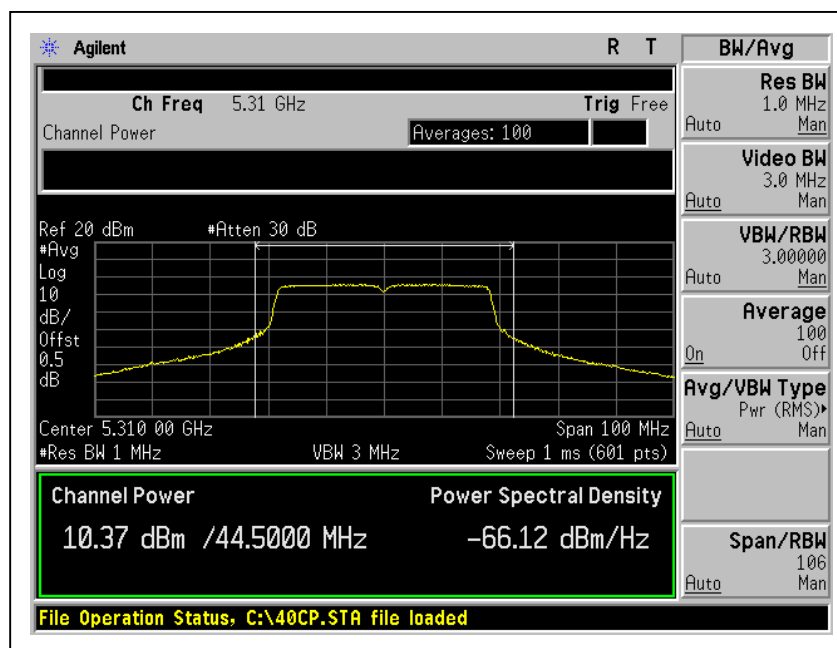


A D T

Peak Power Output: For Chain (0) :CH3



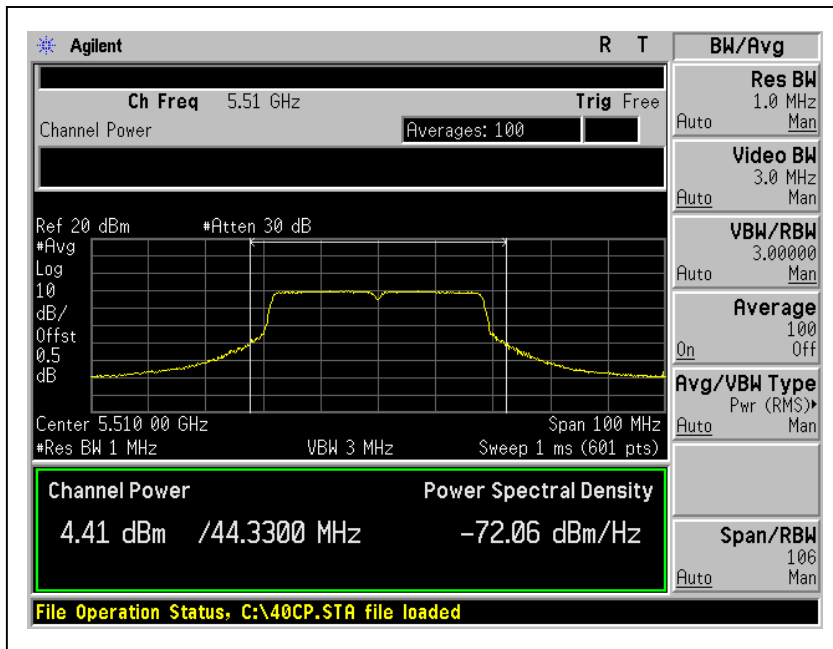
CH4



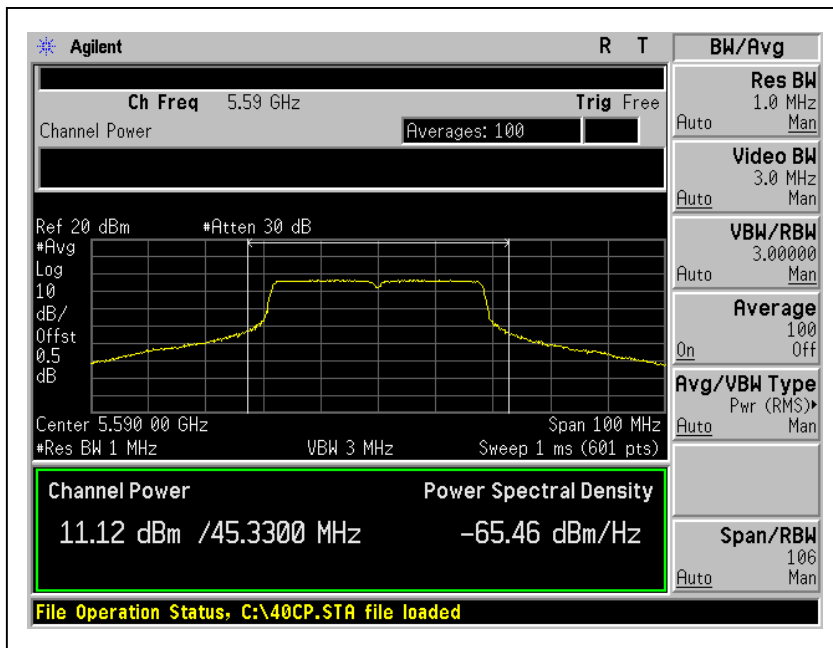


A D T

CH5



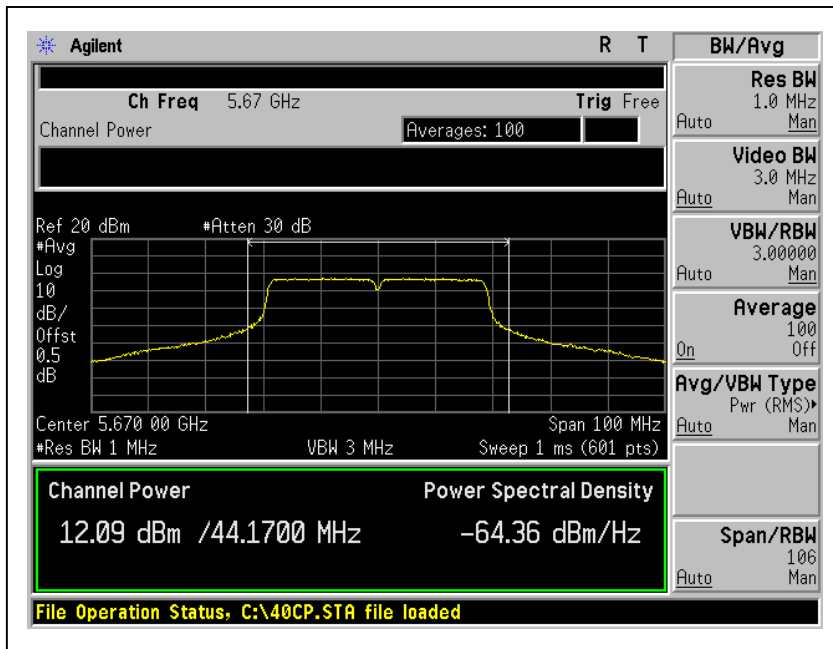
CH7





A D T

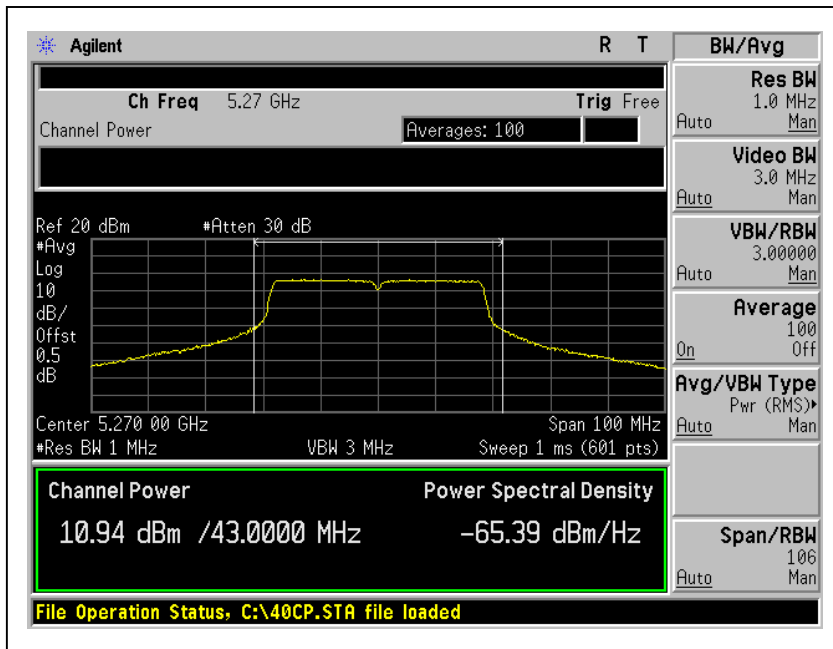
CH8



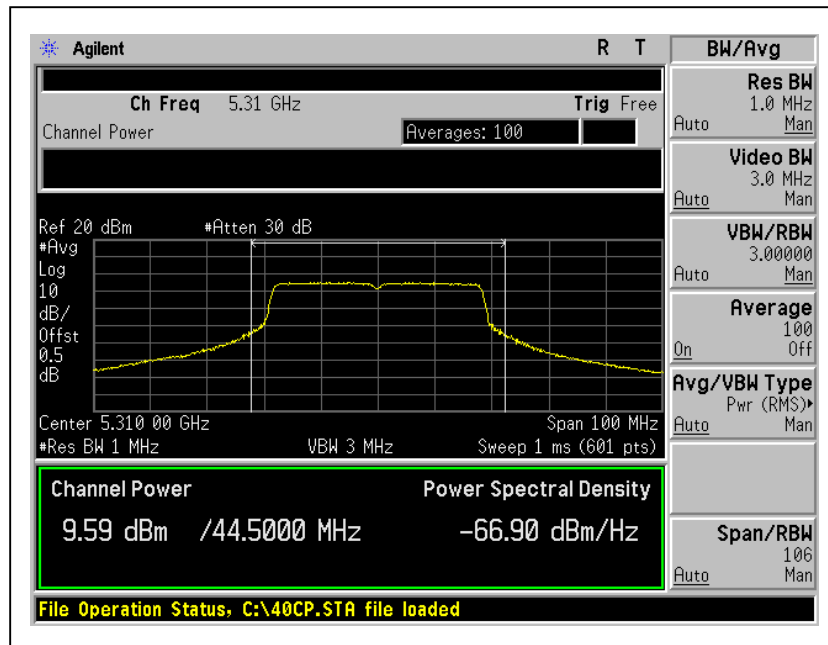


A D T

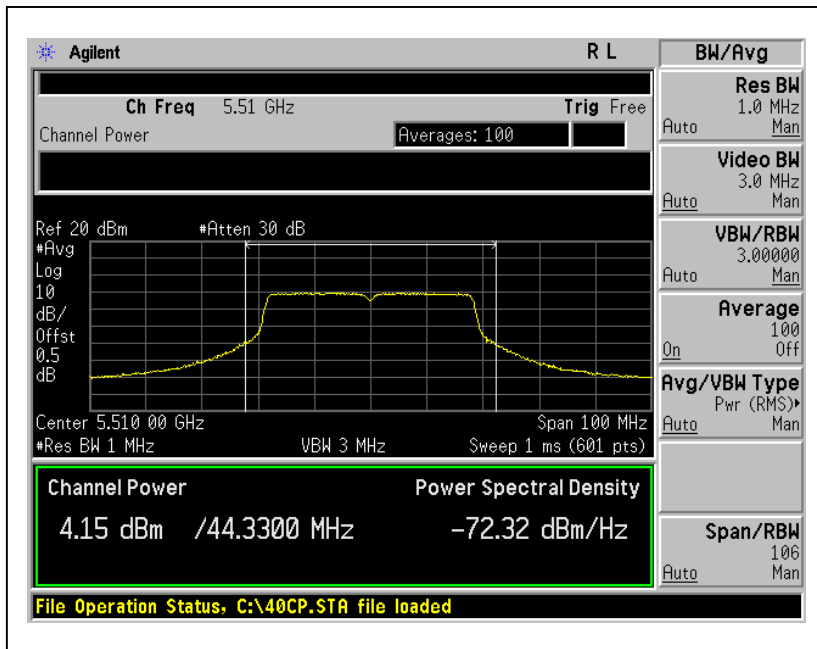
For Chain (1):CH3



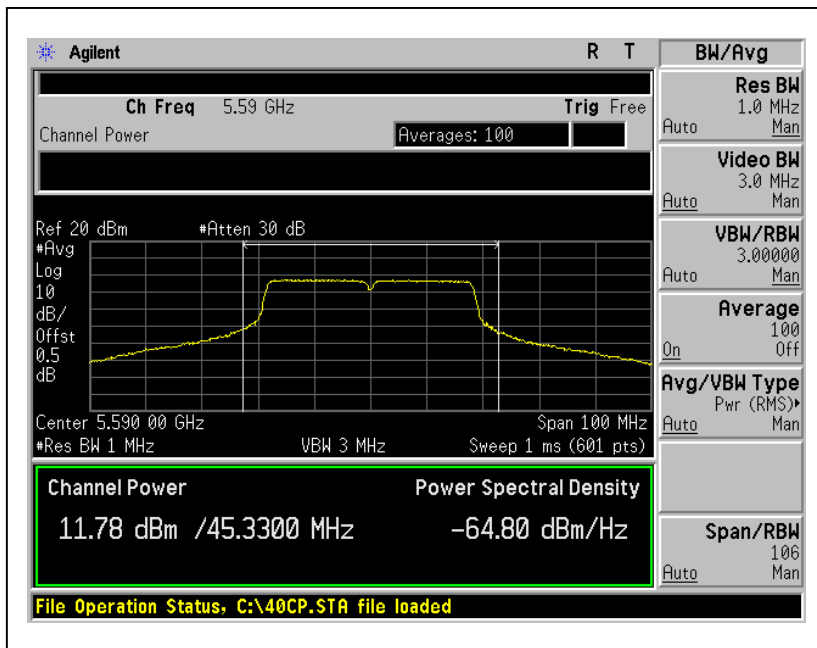
CH4



CH5



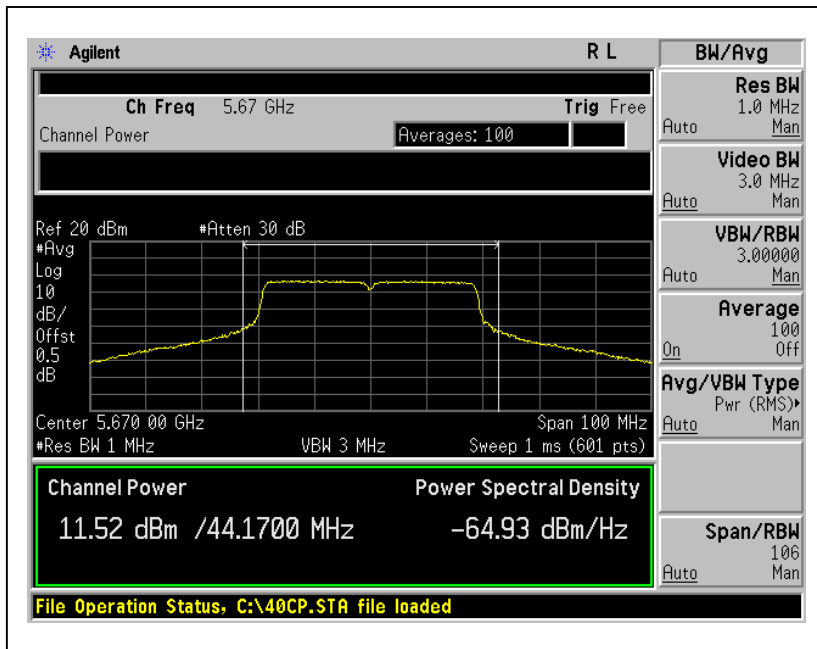
CH7





A D T

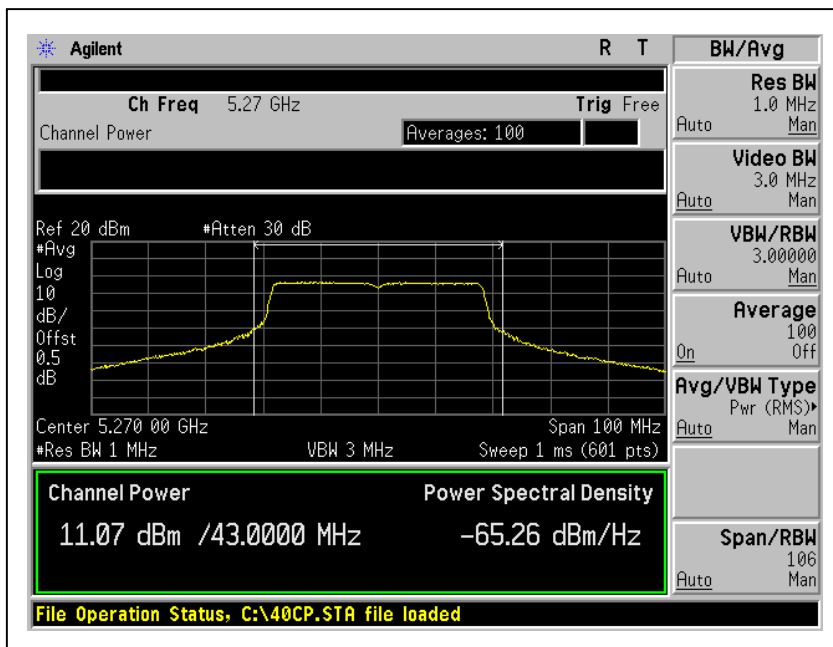
CH8



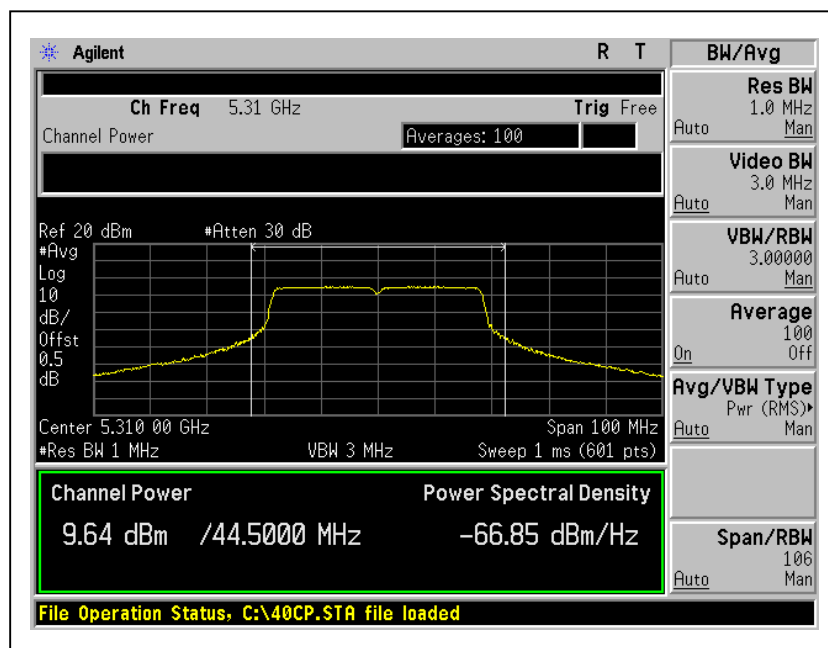


A D T

For Chain (2) :CH3



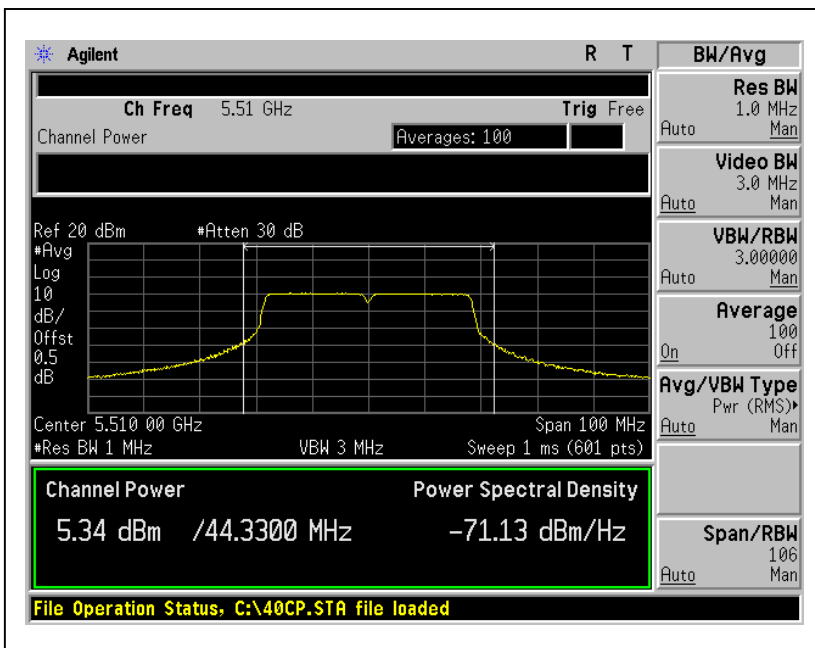
CH4



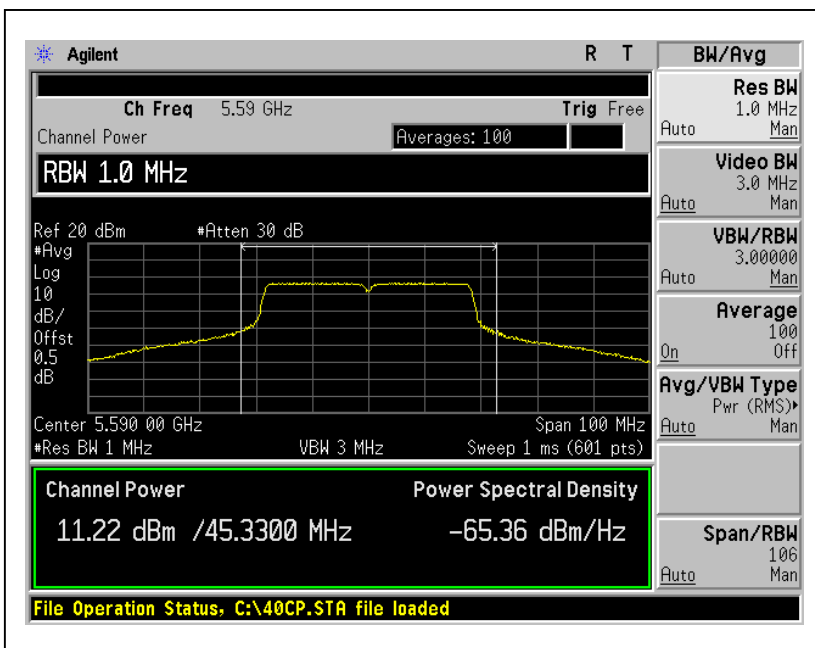


A D T

CH5



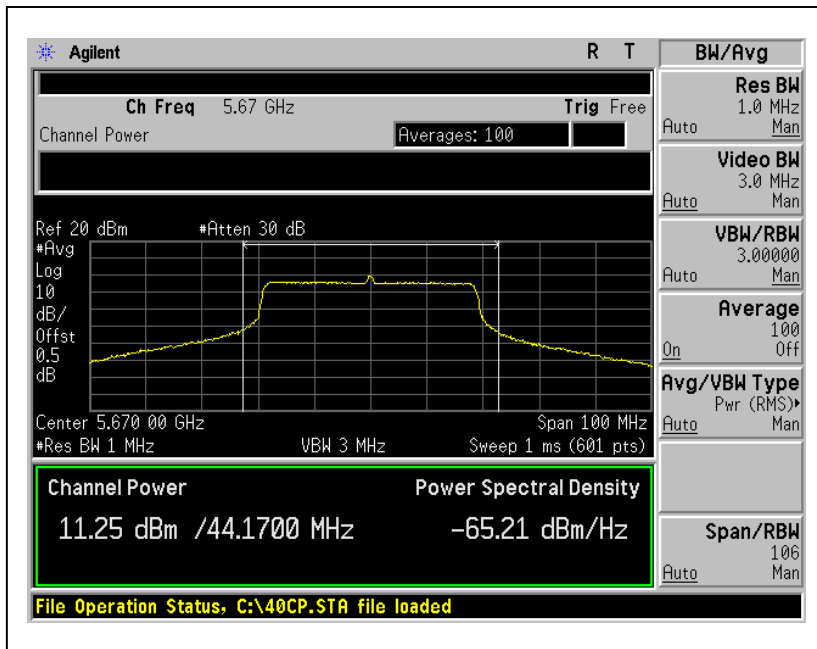
CH7





A D T

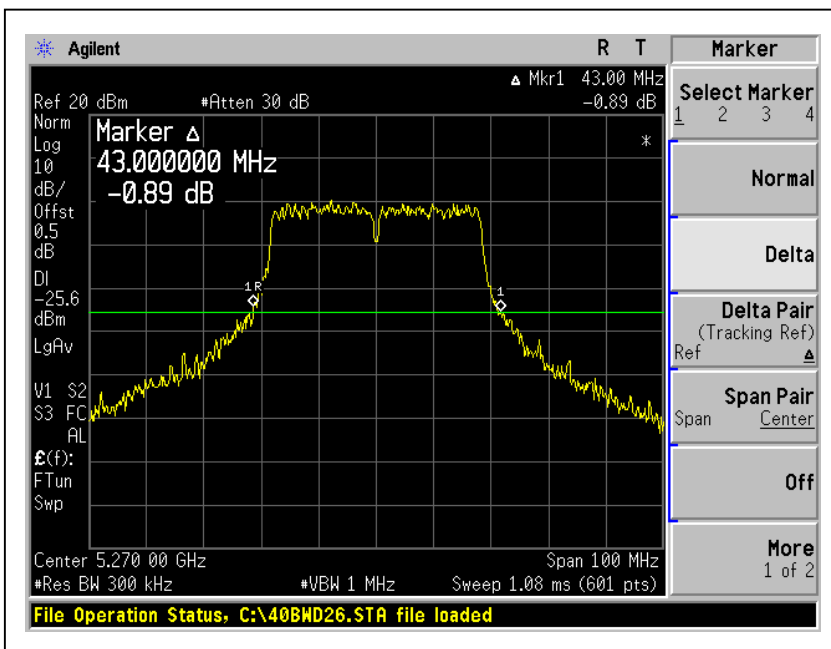
CH8



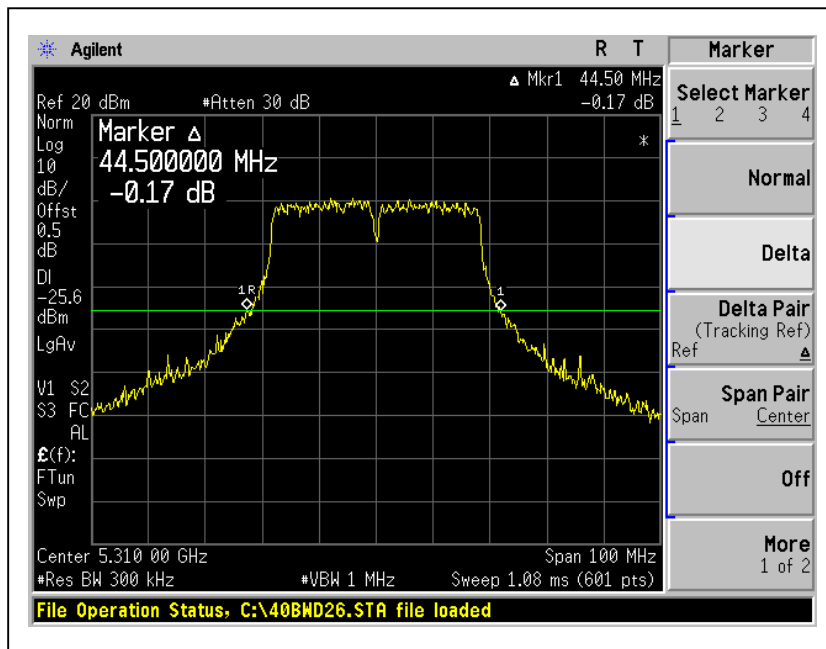


A D T

26dB Occupied Bandwidth: CH3



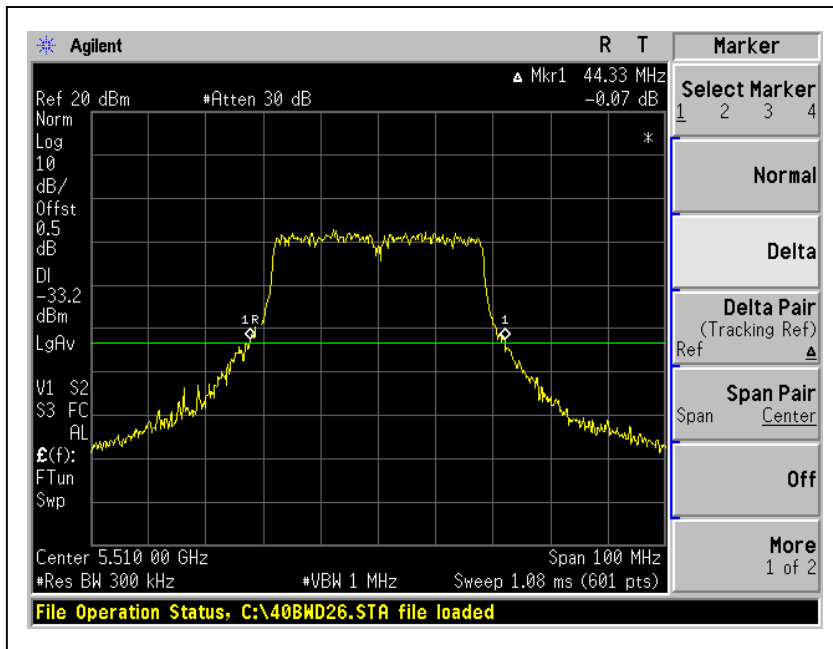
CH4



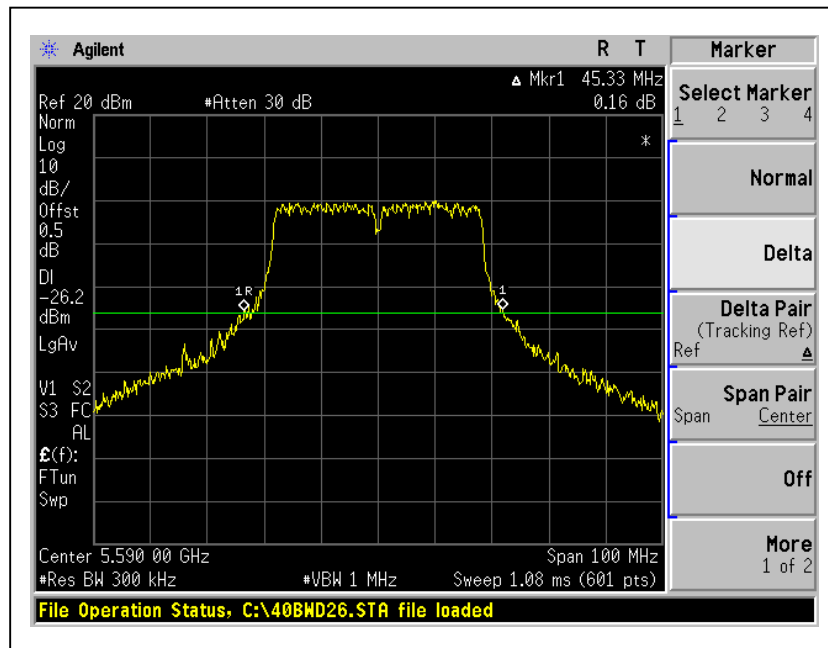


A D T

CH5



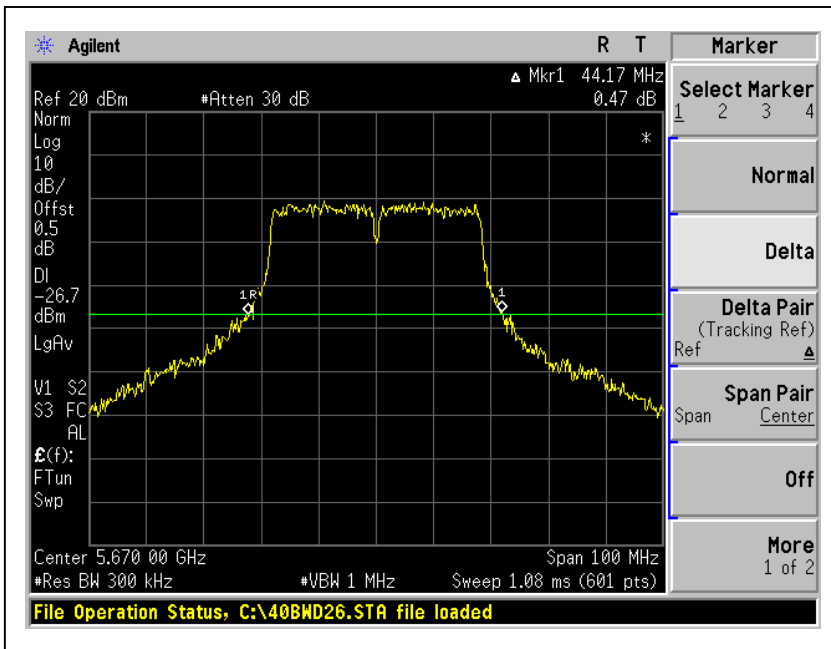
CH7





A D T

CH8





A D T

4.3.9 TEST RESULTS – ANTENNA 7

802.11a OFDM MODULATION:

| | | | |
|------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 6Mbps |
| INPUT POWER | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 26deg.C, 63%RH, 965hPa |
| TESTED BY | Rex Huang | | |

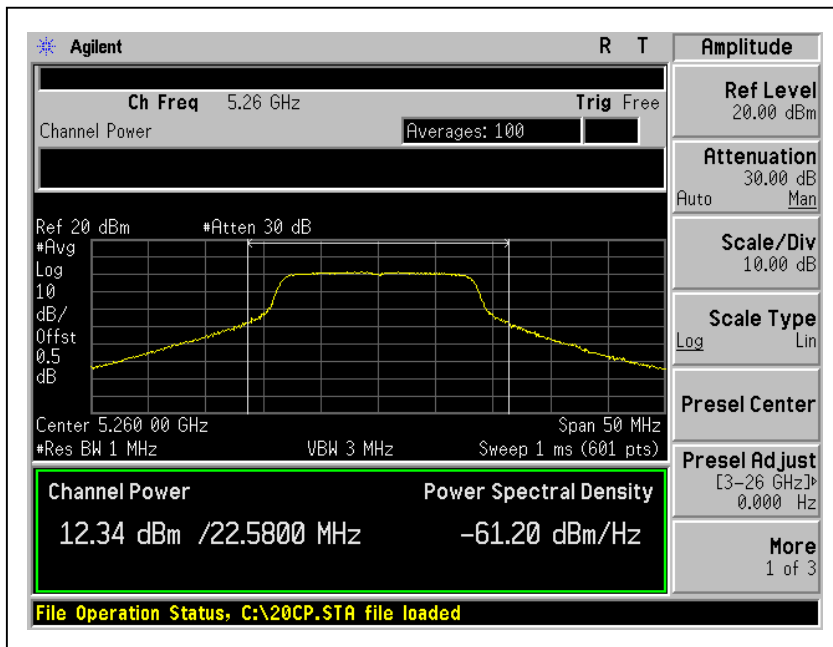
| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER OUTPUT (dBm) | | | PEAK POWER OUTPUT (mW) | | | TOTAL PEAK POWER (dBm) | TOTAL PEAK POWER (mW) | PEAK POWER LIMIT (dBm) | 26dBc Occupied Bandwidth (MHz) | PASS/ FAIL |
|---------|-------------------------|-------------------------|---------|---------|------------------------|---------|---------|------------------------|-----------------------|------------------------|--------------------------------|------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 0 | Chain 1 | Chain 2 | | | | | |
| 5 | 5260 | 12.34 | 10.86 | 11.83 | 17.140 | 12.190 | 15.205 | 16.49 | 44.535 | 24.00 | 22.58 | PASS |
| 7 | 5300 | 12.53 | 11.02 | 11.73 | 17.906 | 12.647 | 14.894 | 16.58 | 45.447 | 24.00 | 22.58 | PASS |
| 8 | 5320 | 11.69 | 11.63 | 11.71 | 14.757 | 14.555 | 14.825 | 16.45 | 44.137 | 24.00 | 23.08 | PASS |
| 9 | 5500 | 11.26 | 12.12 | 11.28 | 13.366 | 16.293 | 13.428 | 16.34 | 43.087 | 24.00 | 22.58 | PASS |
| 14 | 5600 | 11.78 | 11.37 | 11.56 | 15.066 | 13.709 | 14.322 | 16.34 | 43.097 | 24.00 | 22.83 | PASS |
| 19 | 5700 | 11.47 | 10.81 | 11.33 | 14.025 | 12.050 | 13.583 | 15.99 | 39.661 | 24.00 | 22.75 | PASS |

NOTE: The 26dBc Occupied Bandwidth plot, please refer to the following pages.

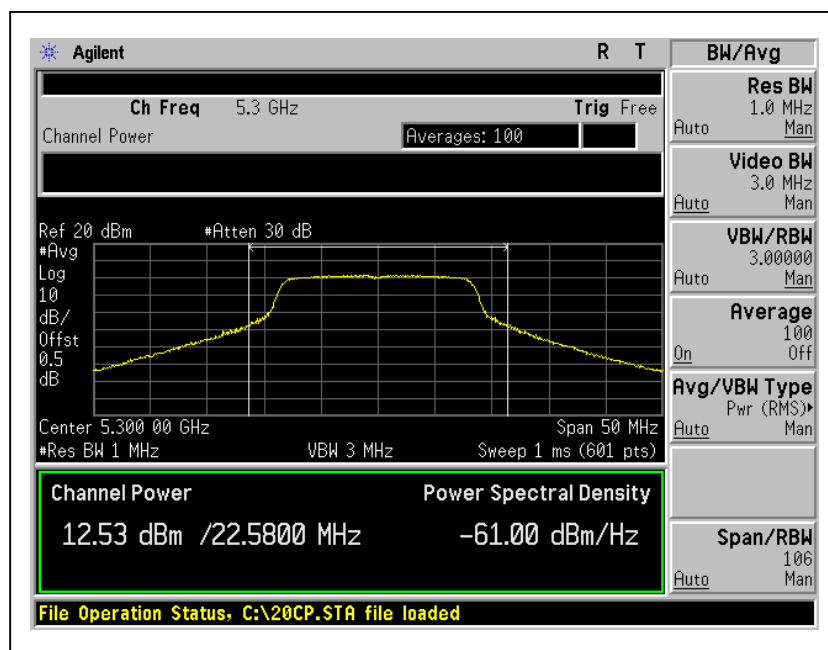


A D T

Peak Power Output: For Chain (0) :CH5



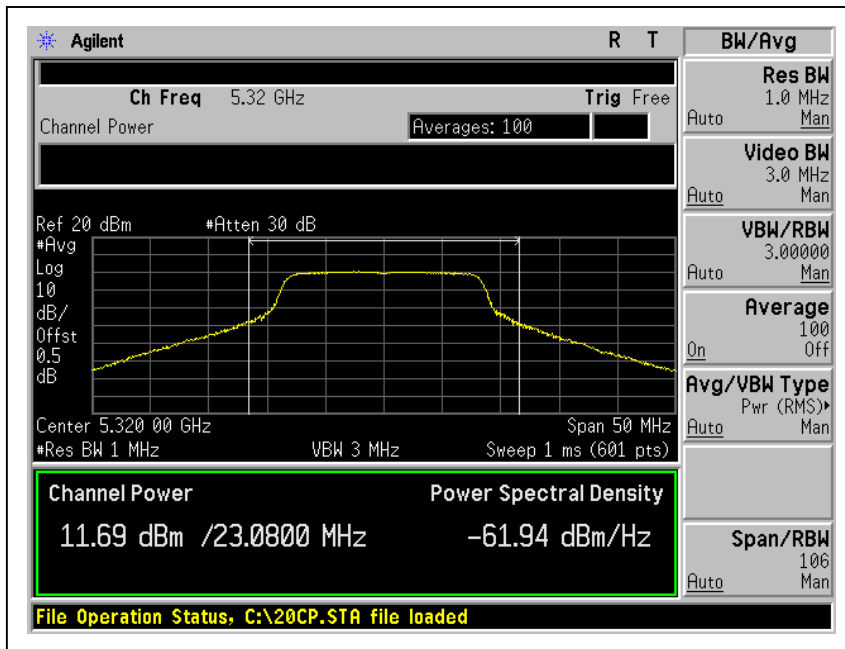
CH7



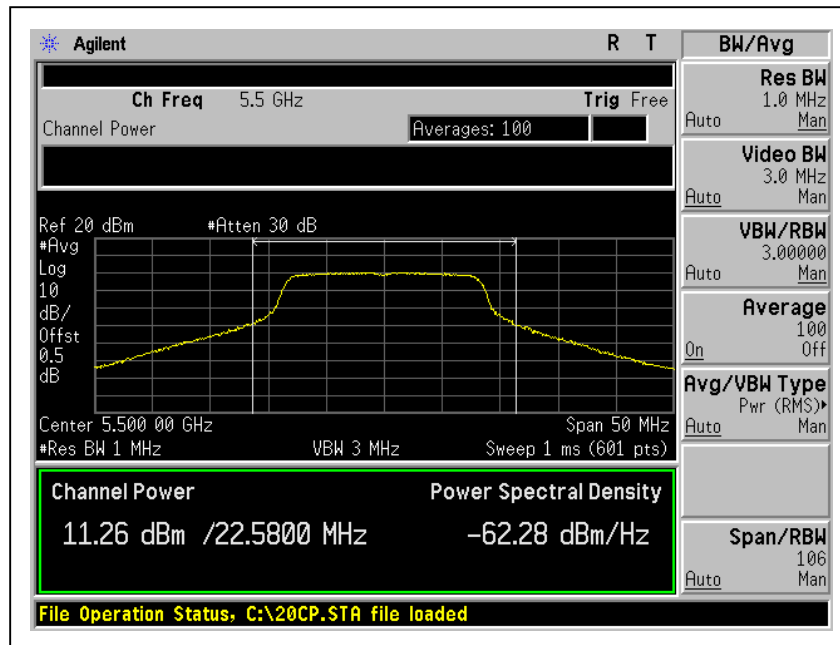


A D T

CH8



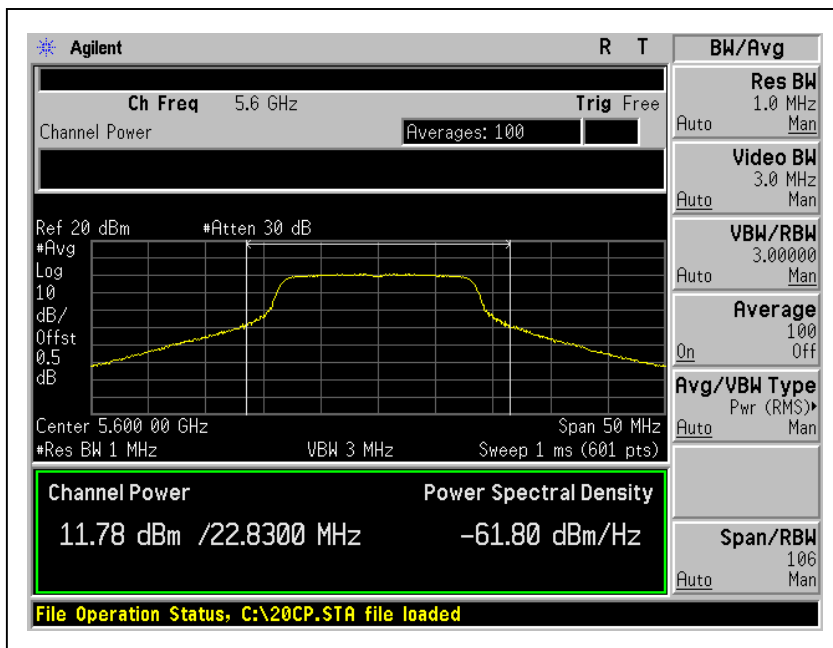
CH9



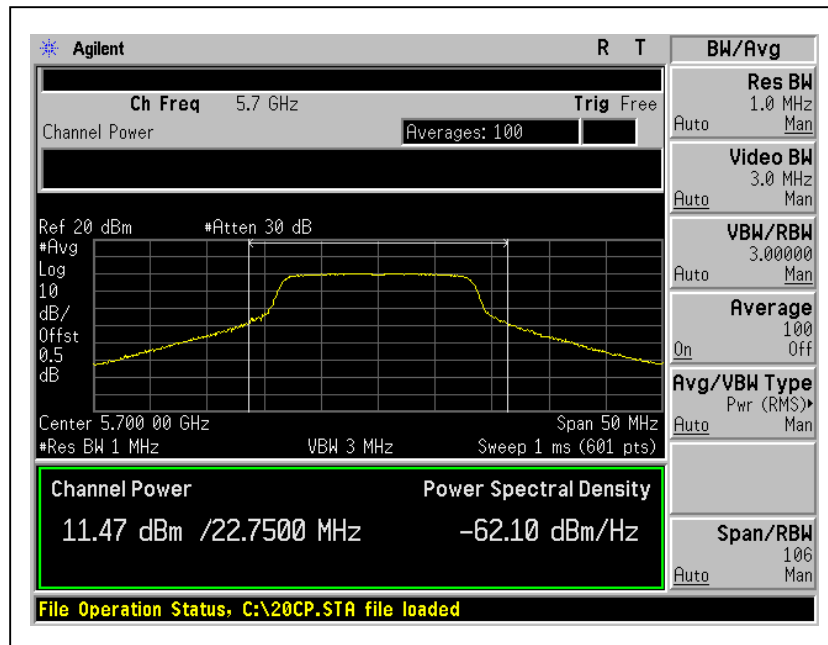


A D T

CH14



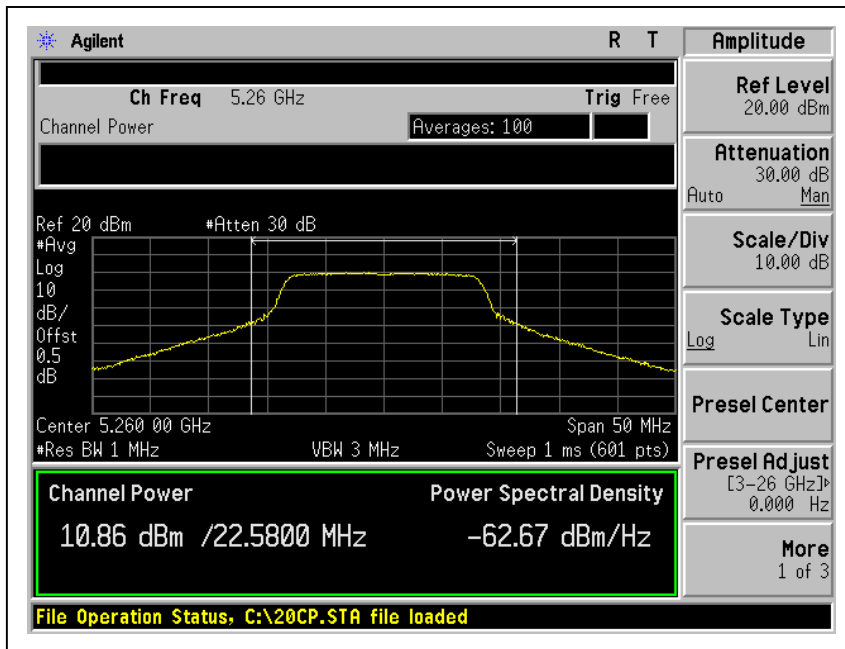
CH19



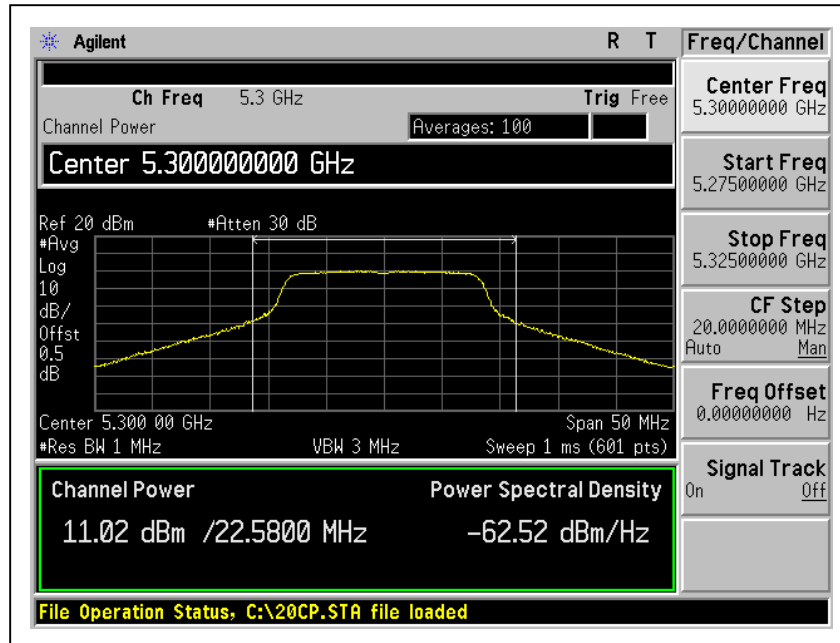


A D T

For Chain (1) :CH5



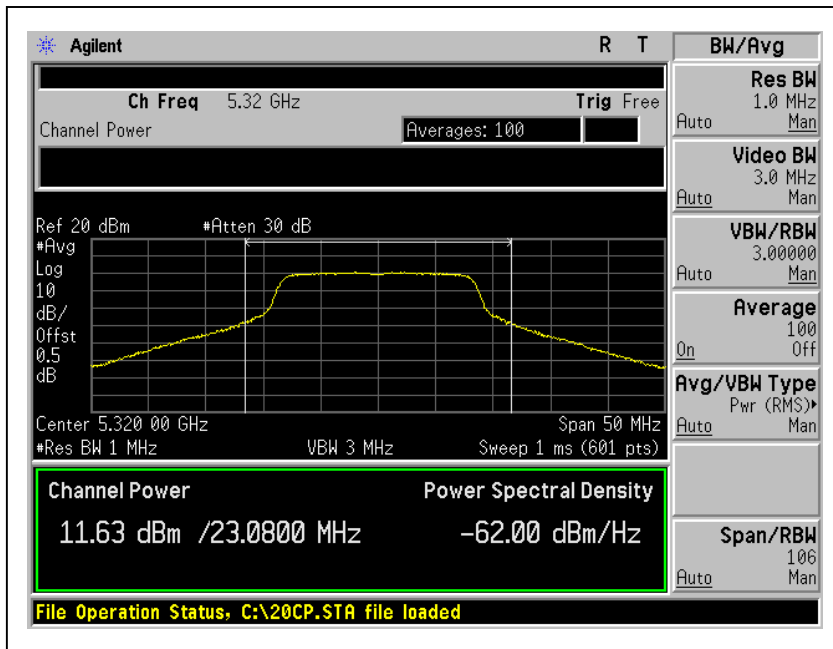
CH7



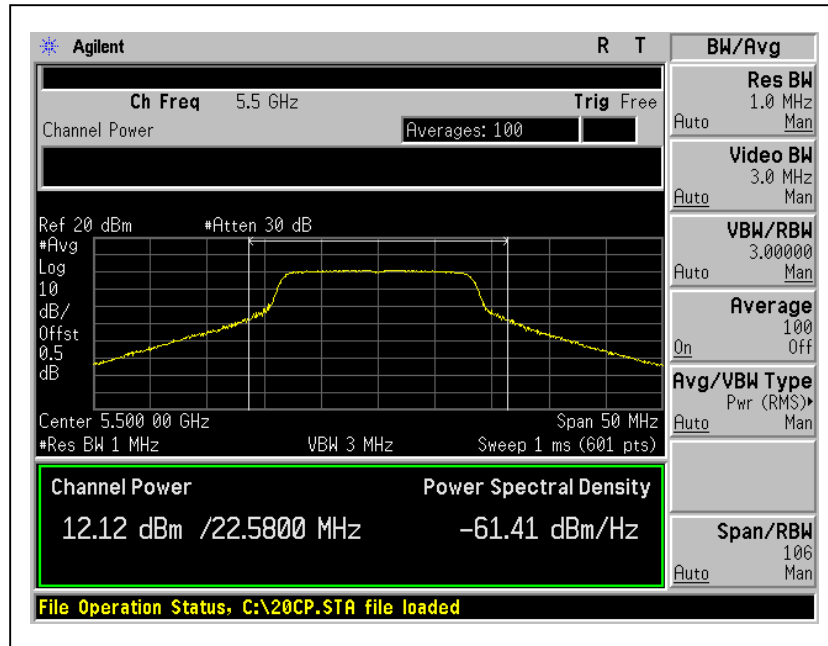


A D T

CH8



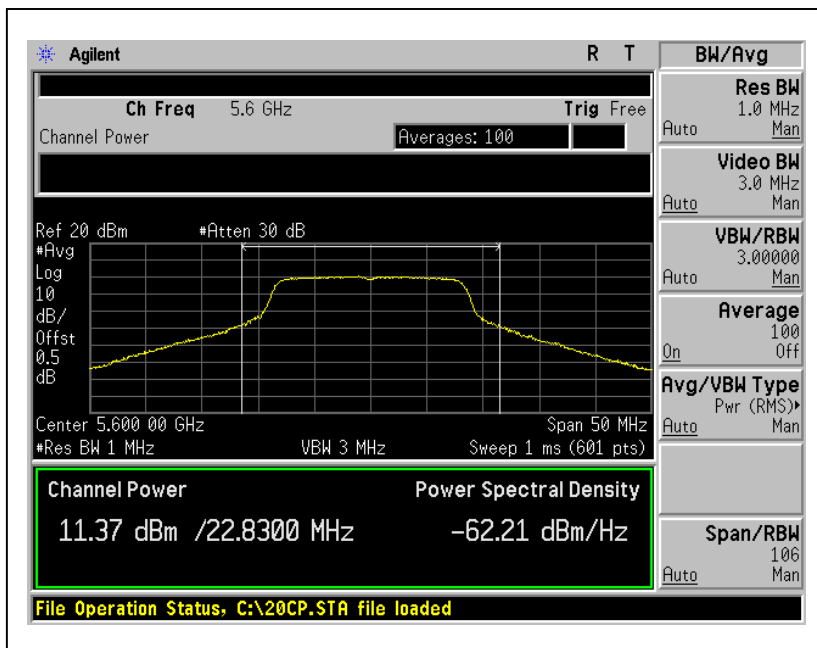
CH9



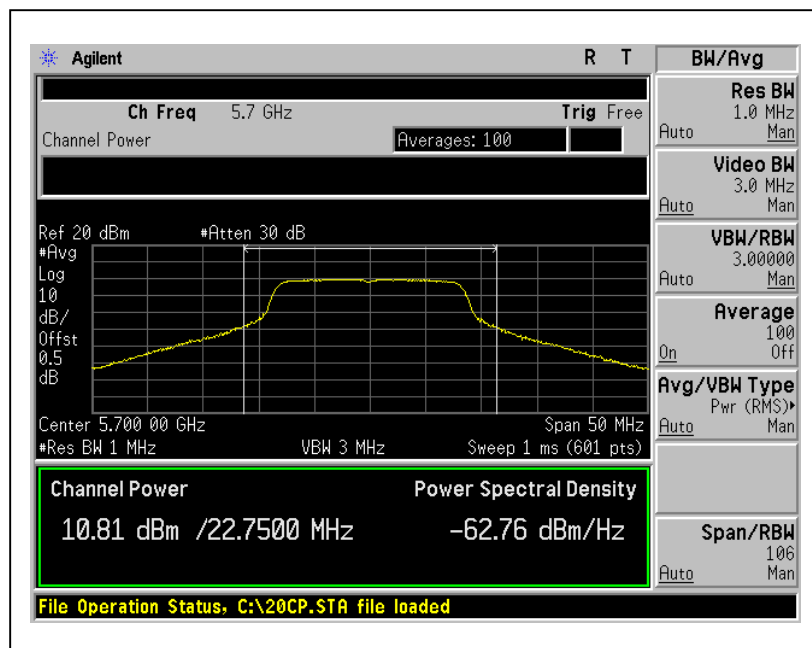


A D T

CH14



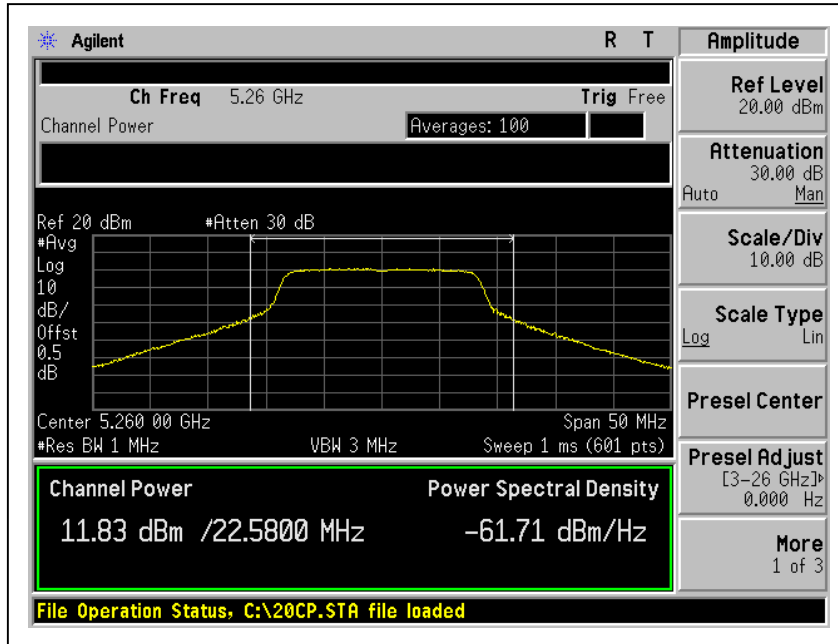
CH19



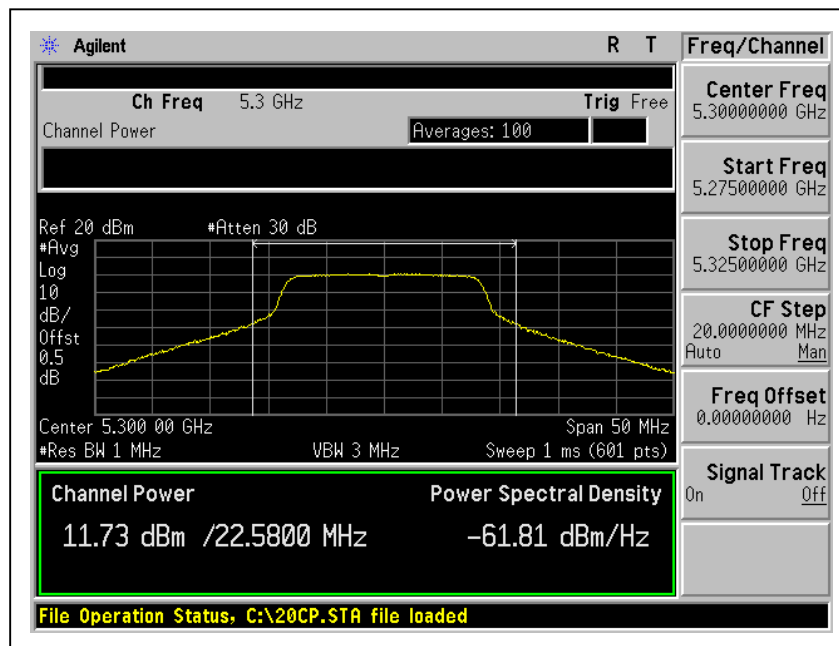


A D T

For Chain (2) :CH5



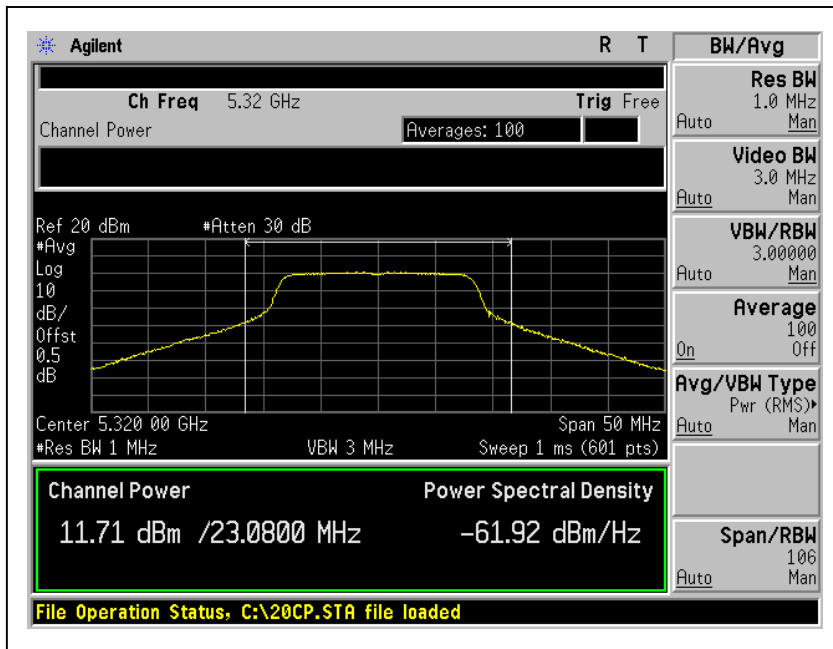
CH7



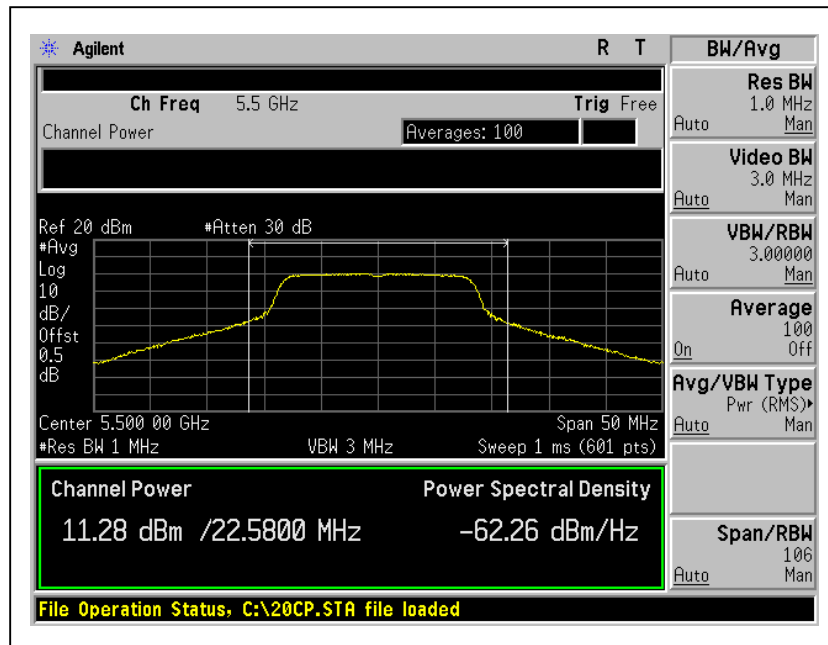


A D T

CH8



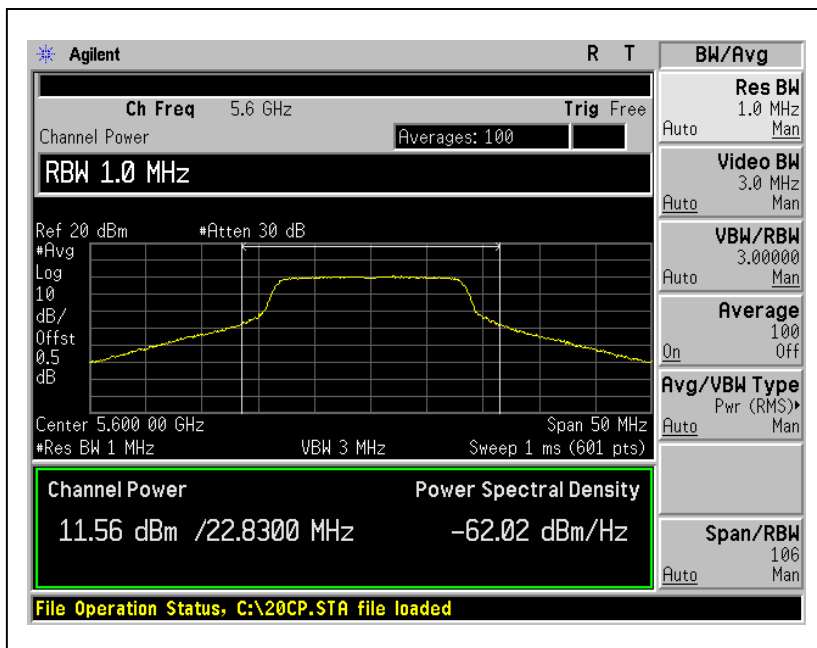
CH9



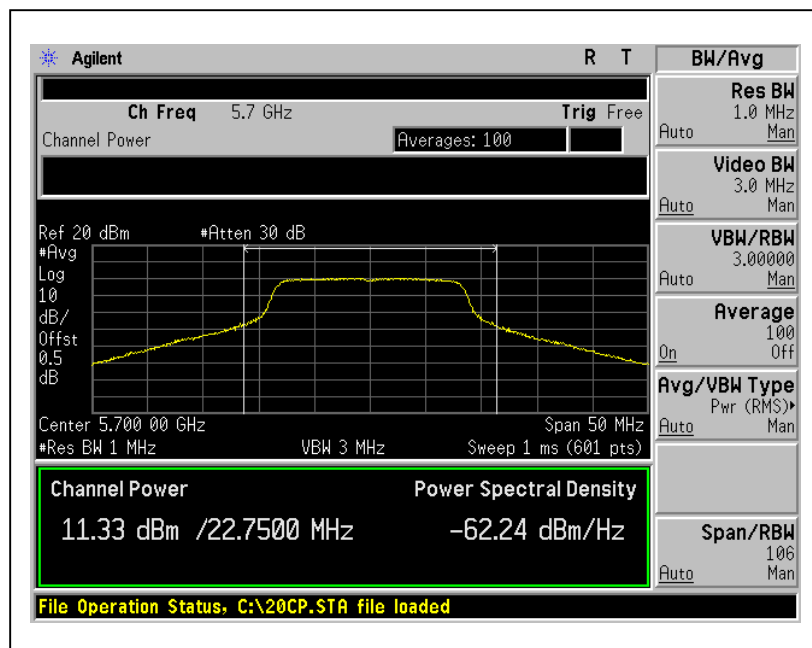


A D T

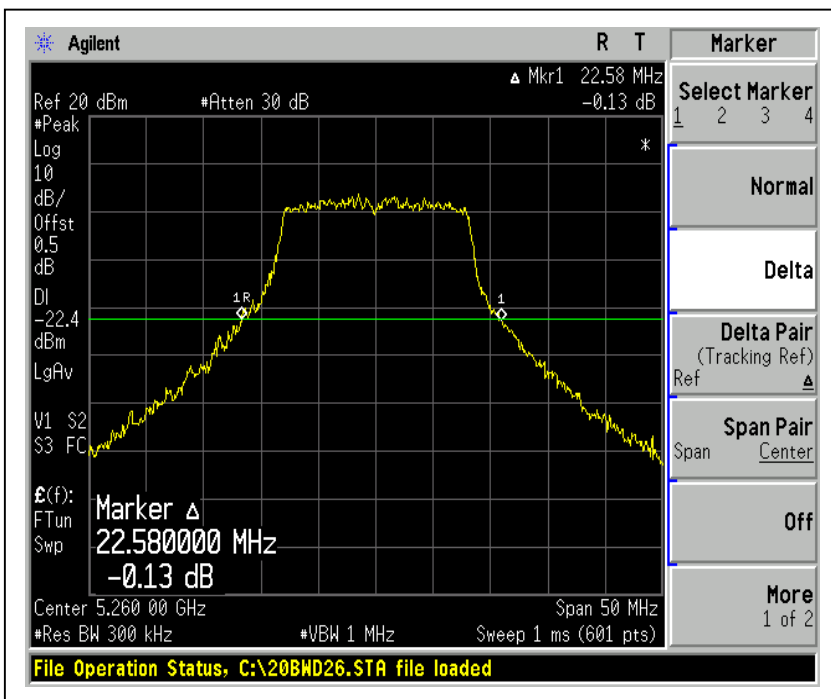
CH14



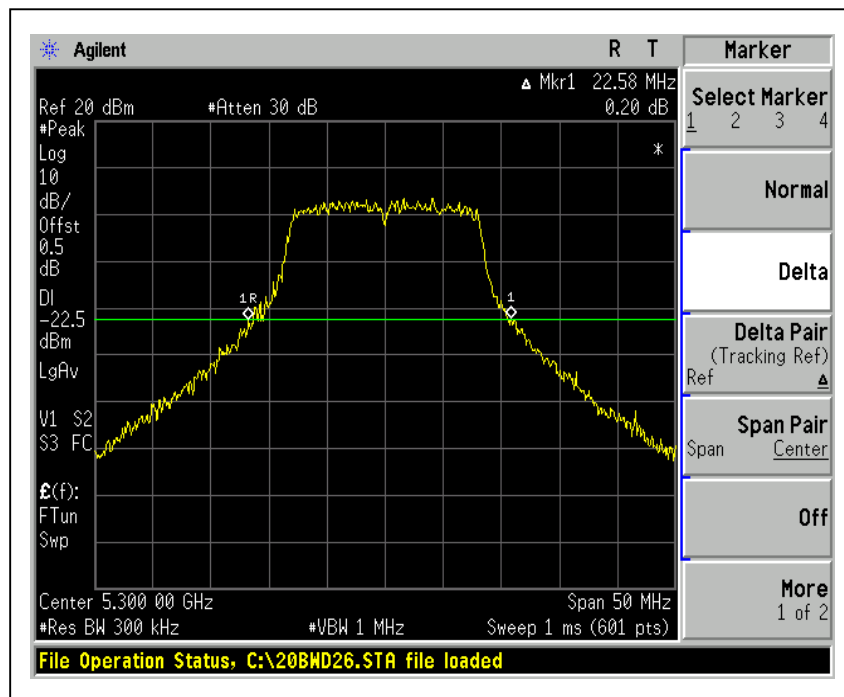
CH19



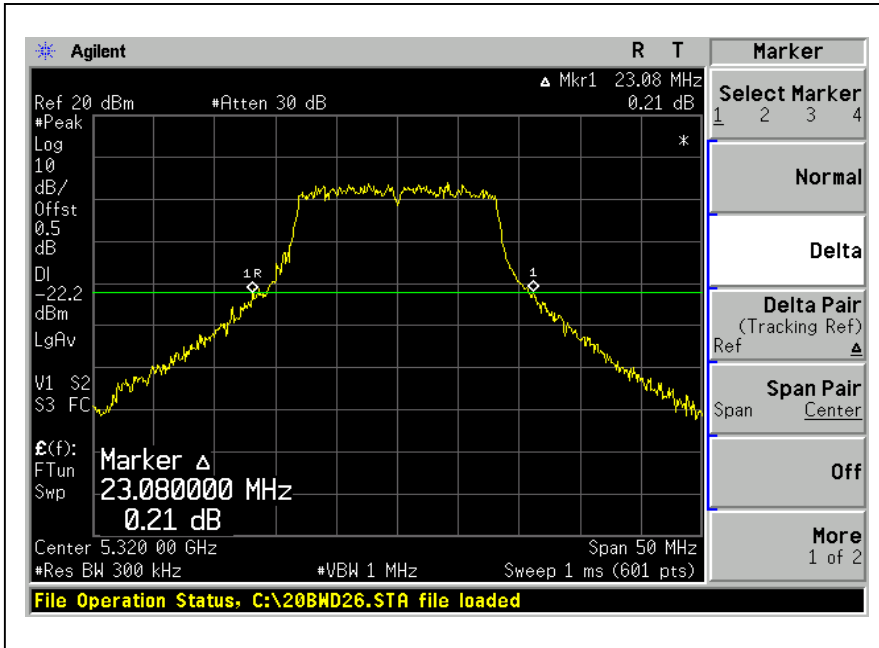
26dB Occupied Bandwidth:
CH5



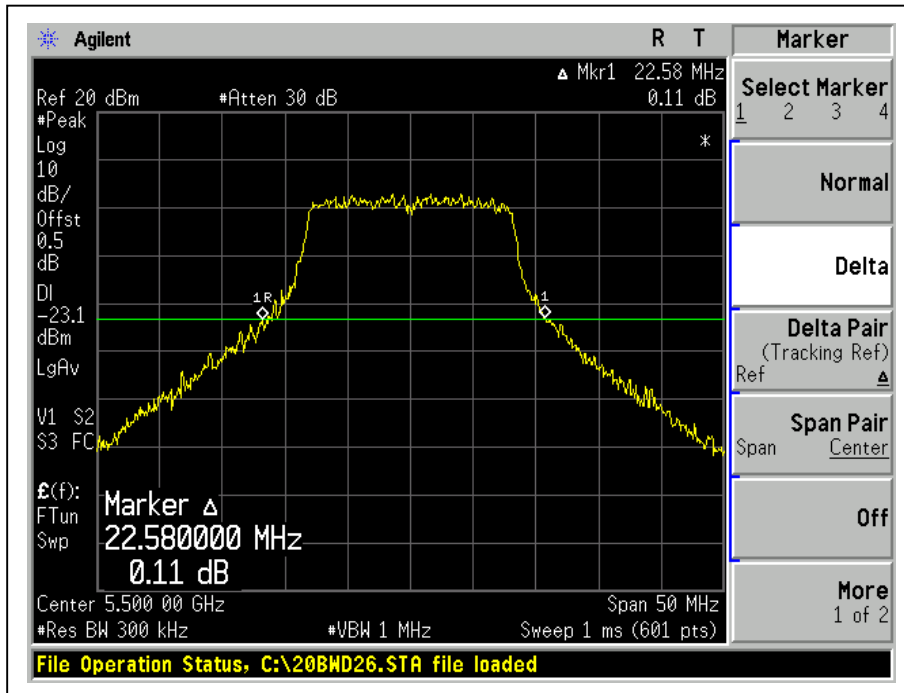
CH7



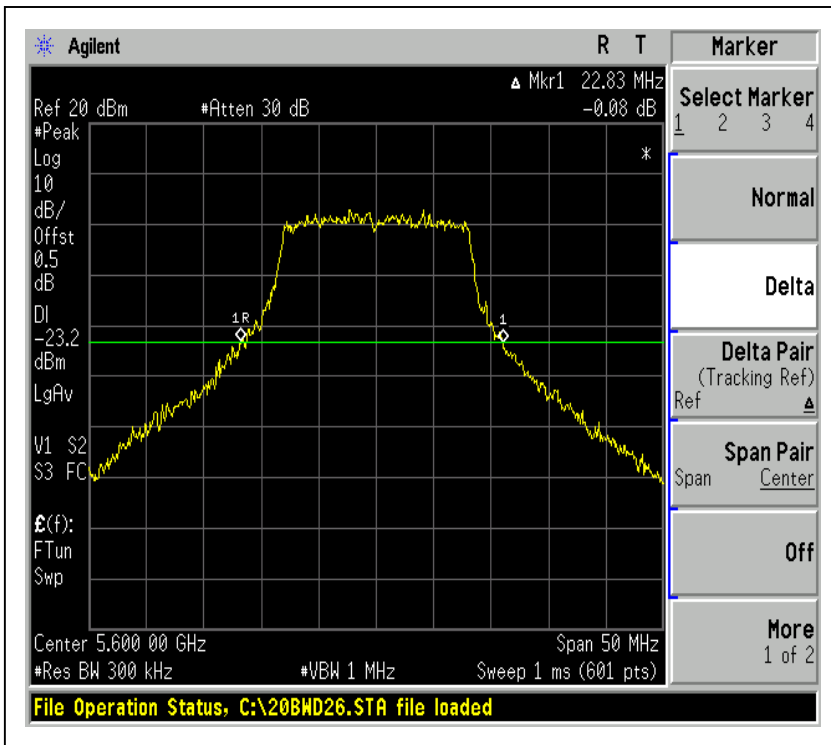
CH8



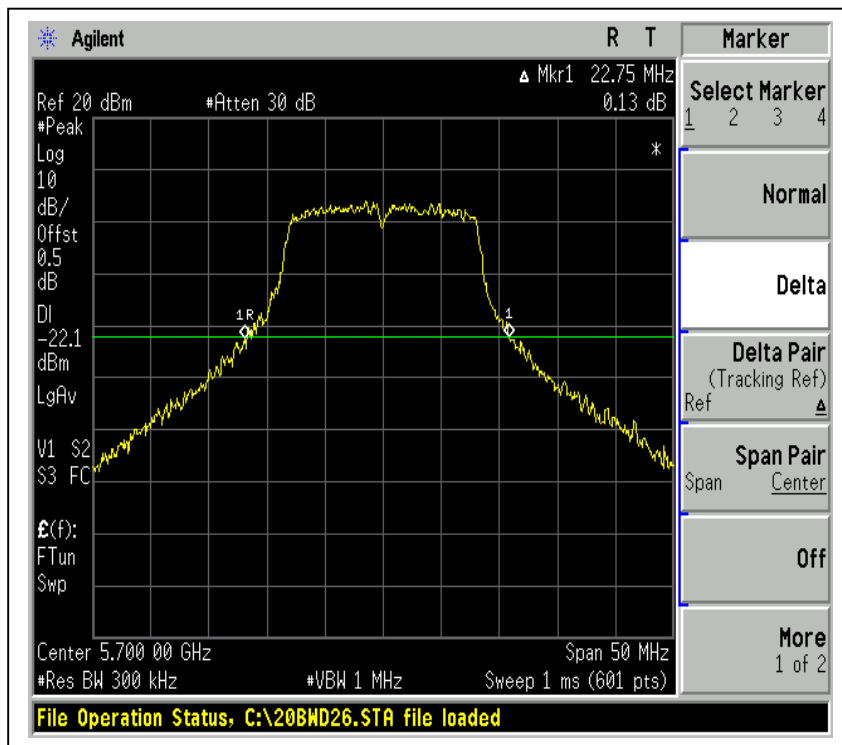
CH9



CH14



CH19





A D T

DRAFT 802.11n (20MHz) OFDM modulation:

| | | | |
|------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 6.5Mbps |
| INPUT POWER | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 26deg.C, 63%RH, 965hPa |
| TESTED BY | Wen Yu | | |

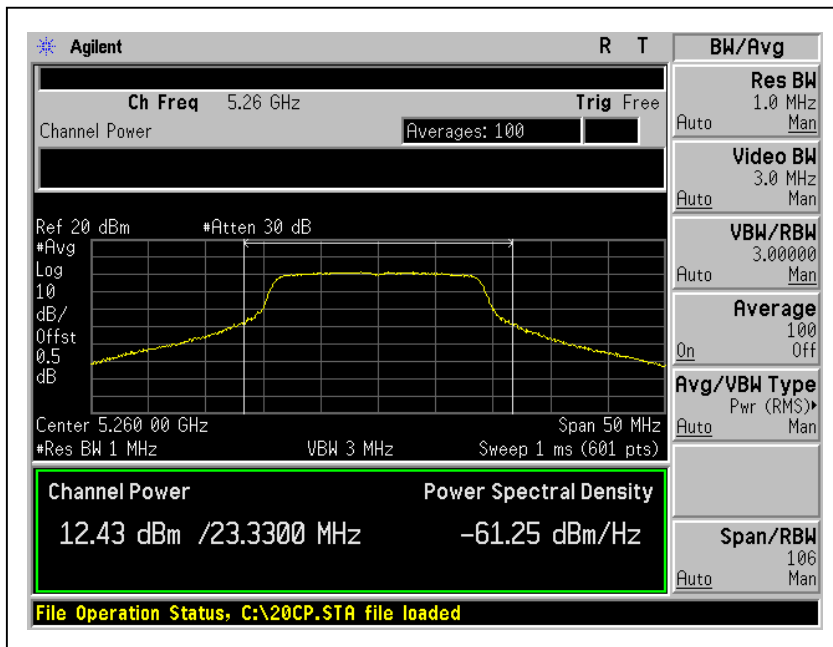
| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER OUTPUT (dBm) | | | PEAK POWER OUTPUT (mW) | | | TOTAL PEAK POWER (dBm) | TOTAL PEAK POWER (mW) | PEAK POWER LIMIT (dBm) | 26dBc Occupied Bandwidth (MHz) | PASS/ FAIL |
|---------|-------------------------|-------------------------|---------|---------|------------------------|---------|---------|------------------------|-----------------------|------------------------|--------------------------------|------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 0 | Chain 1 | Chain 2 | | | | | |
| 5 | 5260 | 12.43 | 10.9 | 11.79 | 17.498 | 12.303 | 15.101 | 16.52 | 44.902 | 24.00 | 23.33 | PASS |
| 7 | 5300 | 12.43 | 10.89 | 11.7 | 17.498 | 12.274 | 14.791 | 16.49 | 44.563 | 24.00 | 24.42 | PASS |
| 8 | 5320 | 12.11 | 11.18 | 11.3 | 16.255 | 13.122 | 13.490 | 16.32 | 42.867 | 24.00 | 23.25 | PASS |
| 9 | 5500 | 11.33 | 12.34 | 11.15 | 13.583 | 17.140 | 13.032 | 16.41 | 43.755 | 24.00 | 23.25 | PASS |
| 14 | 5600 | 11.64 | 11.34 | 11.53 | 14.588 | 13.614 | 14.223 | 16.28 | 42.425 | 24.00 | 23.25 | PASS |
| 19 | 5700 | 12.07 | 11.15 | 11.37 | 16.106 | 13.032 | 13.709 | 16.32 | 42.847 | 24.00 | 23.58 | PASS |

NOTE: The 26dBc Occupied Bandwidth plot, please refer to the following pages.

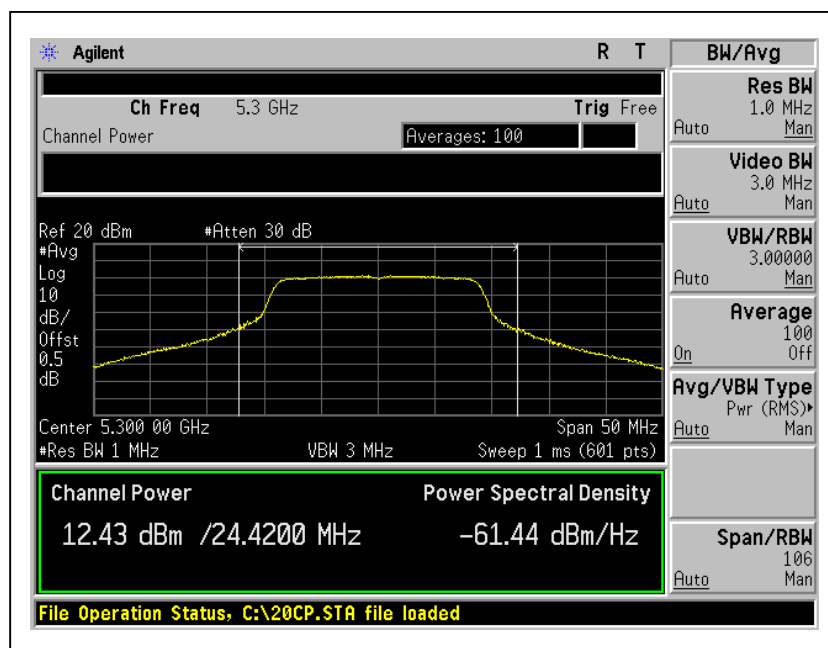


A D T

Peak Power Output: For Chain (0) :CH5



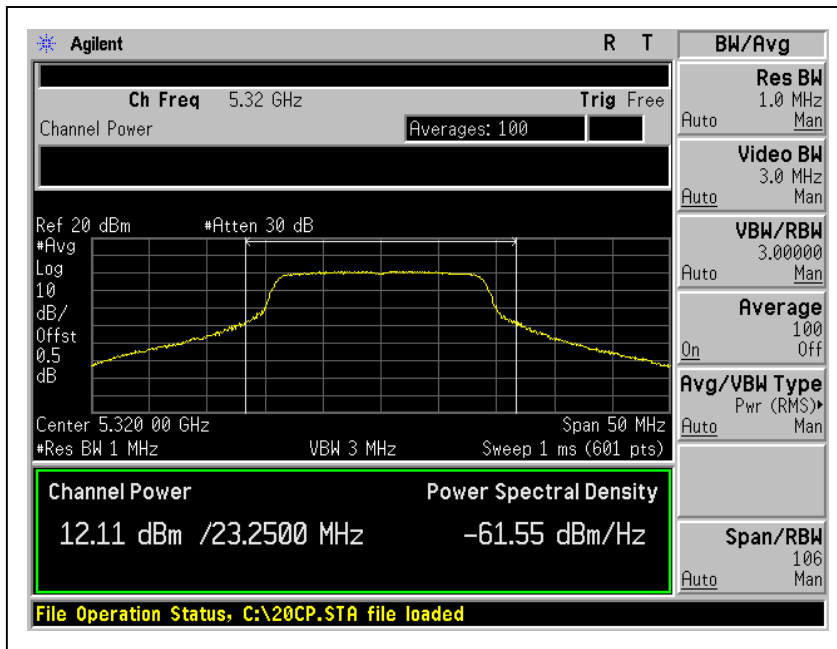
CH7



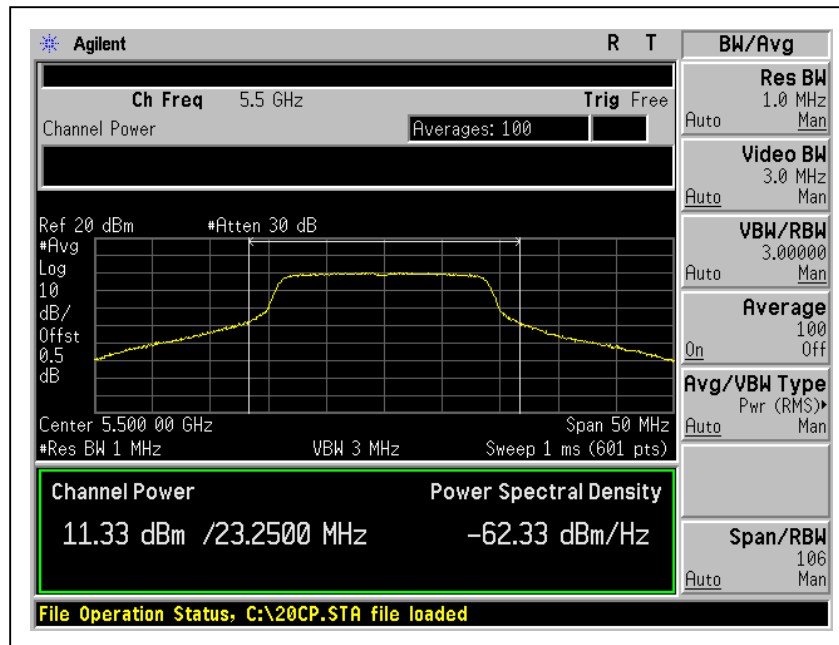


A D T

CH8



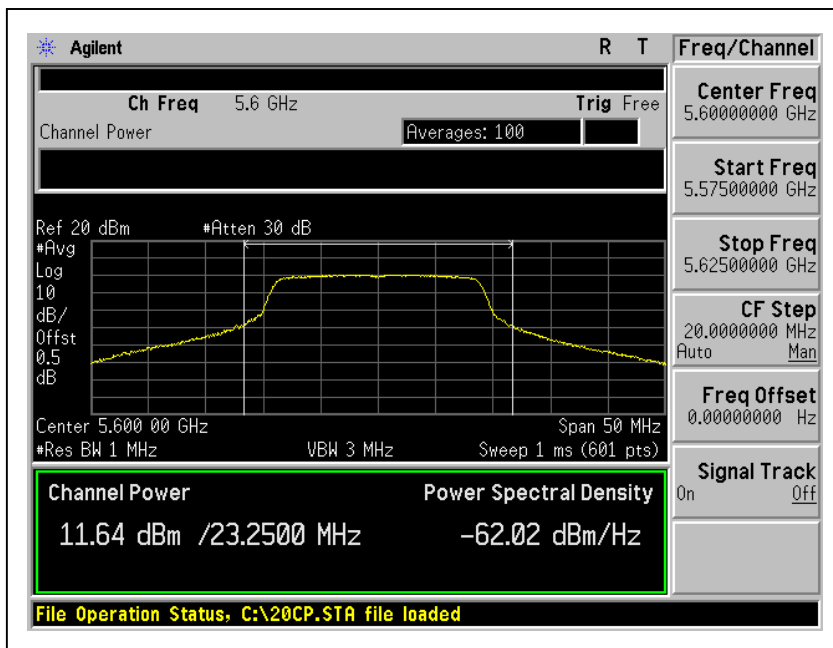
CH9



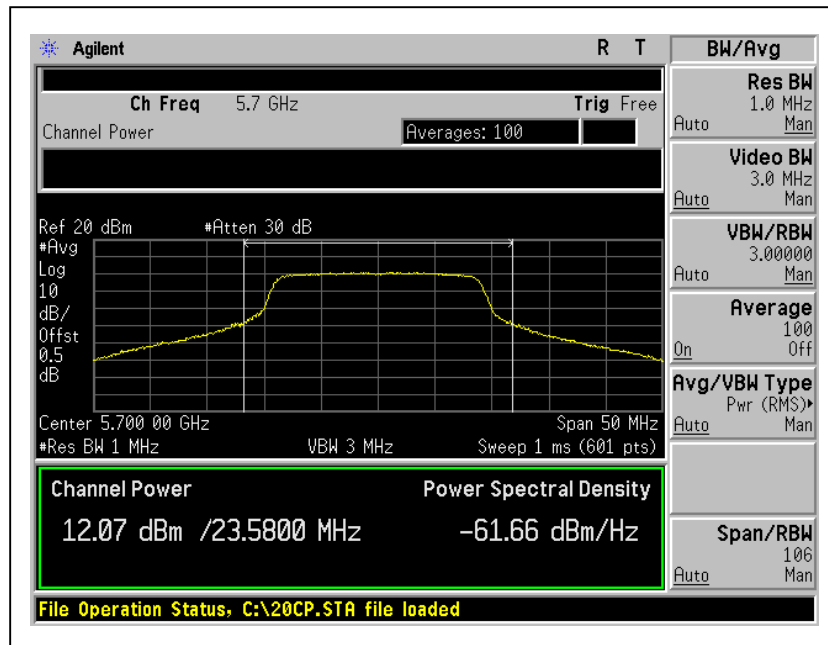


A D T

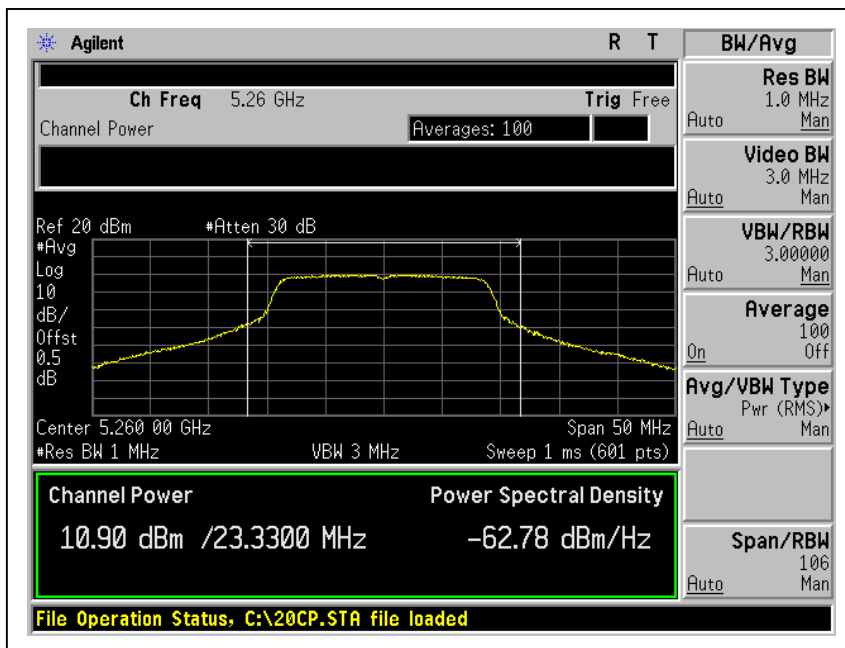
CH14



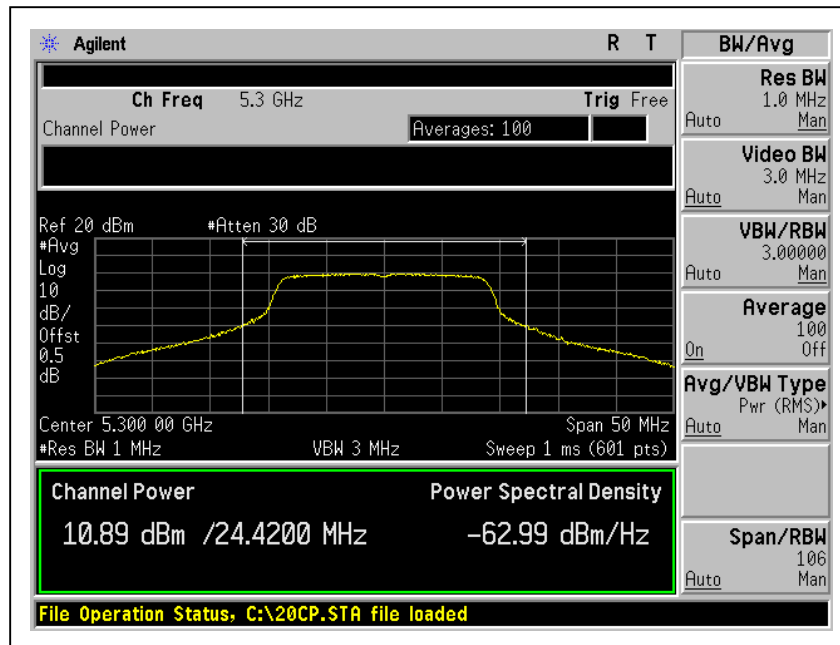
CH19



For Chain (1) :CH5



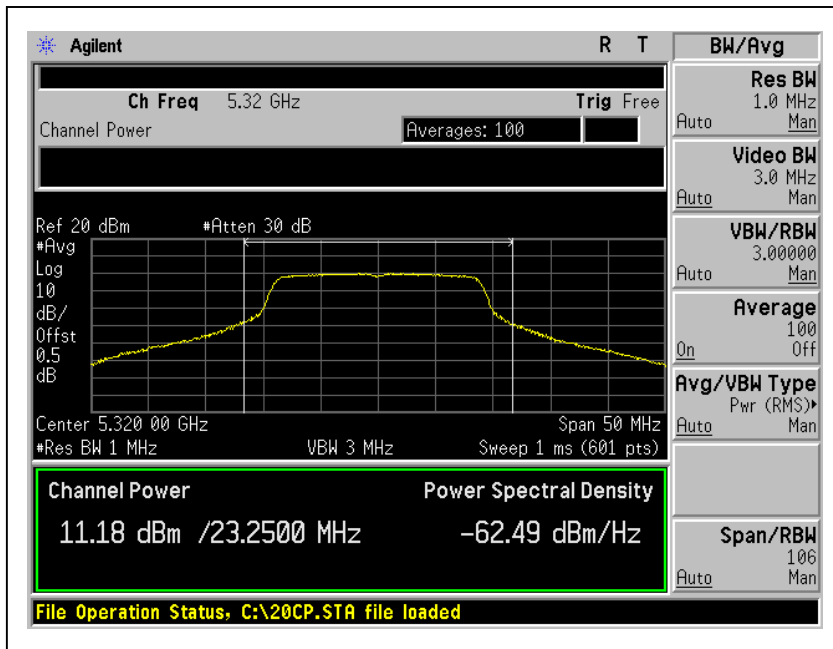
CH7



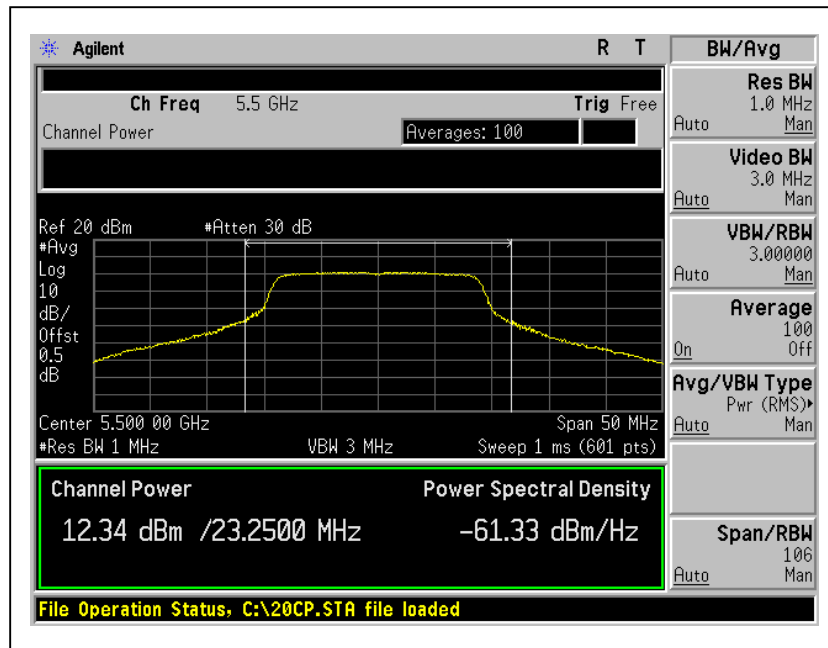


A D T

CH8



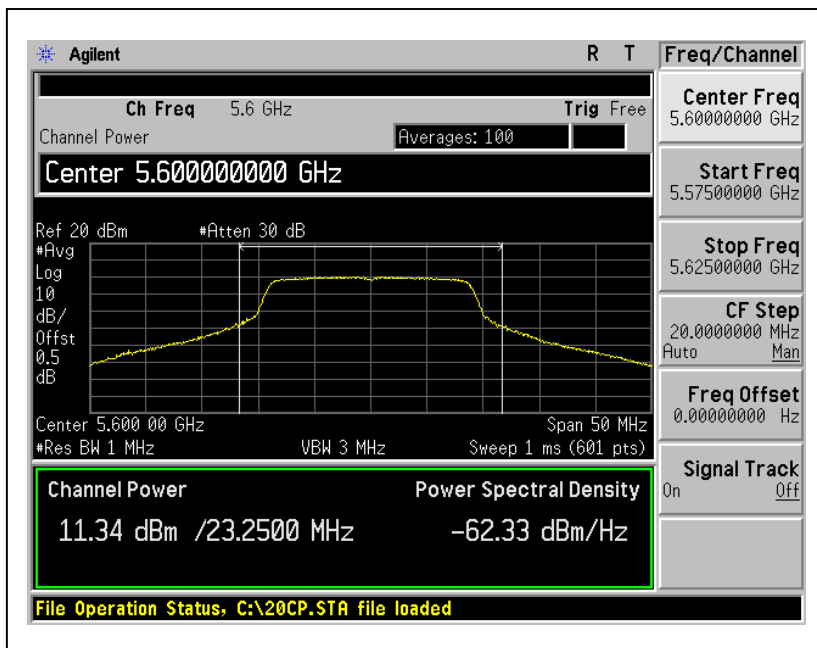
CH9



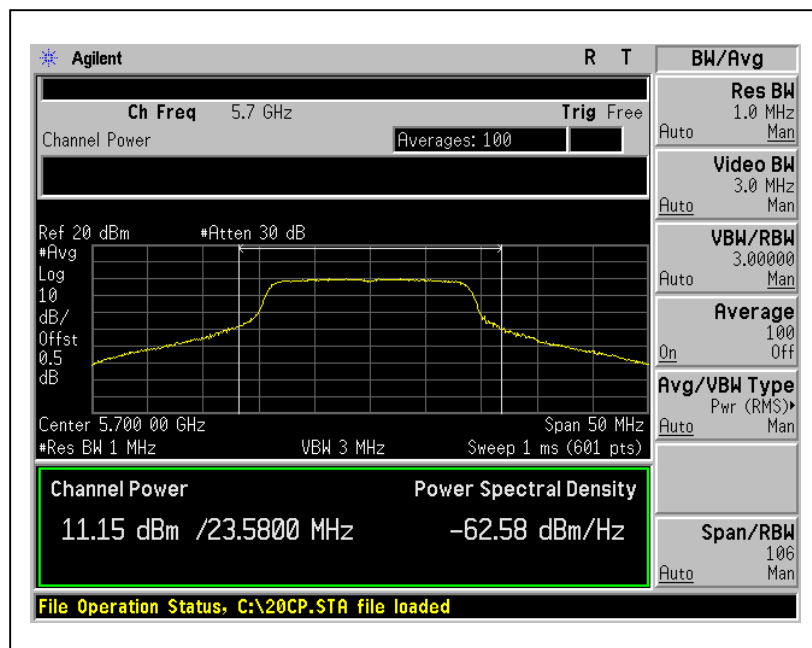


A D T

CH14



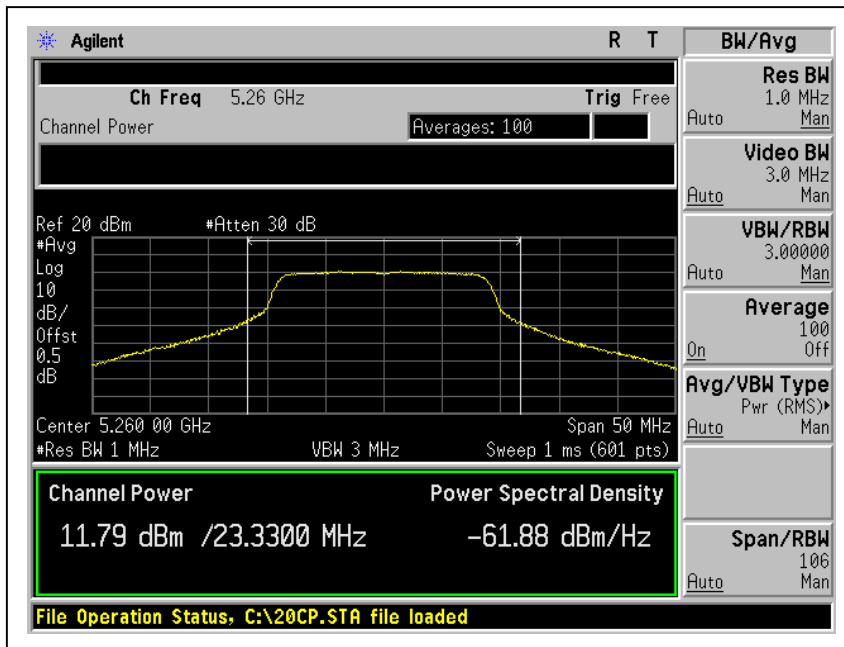
CH19



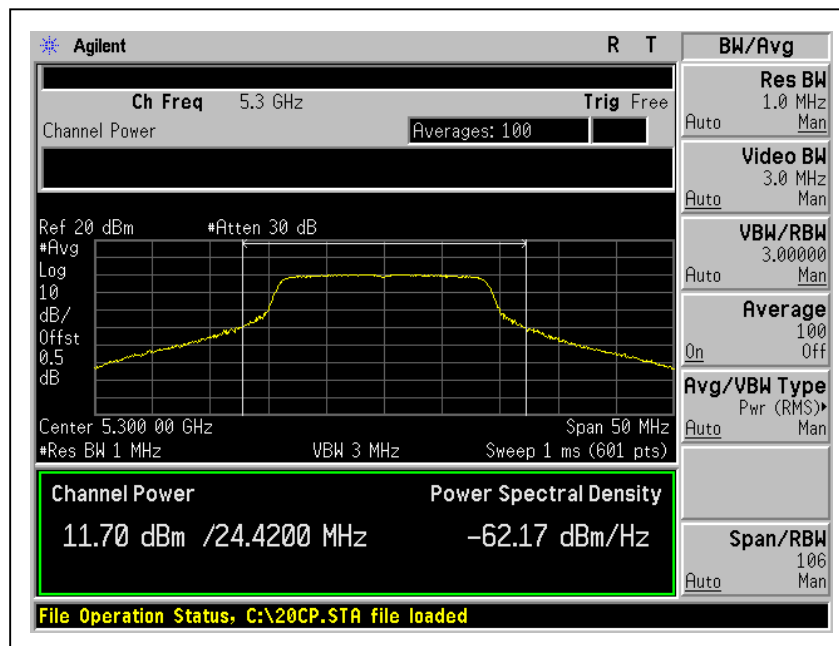


A D T

For Chain (2) :CH5



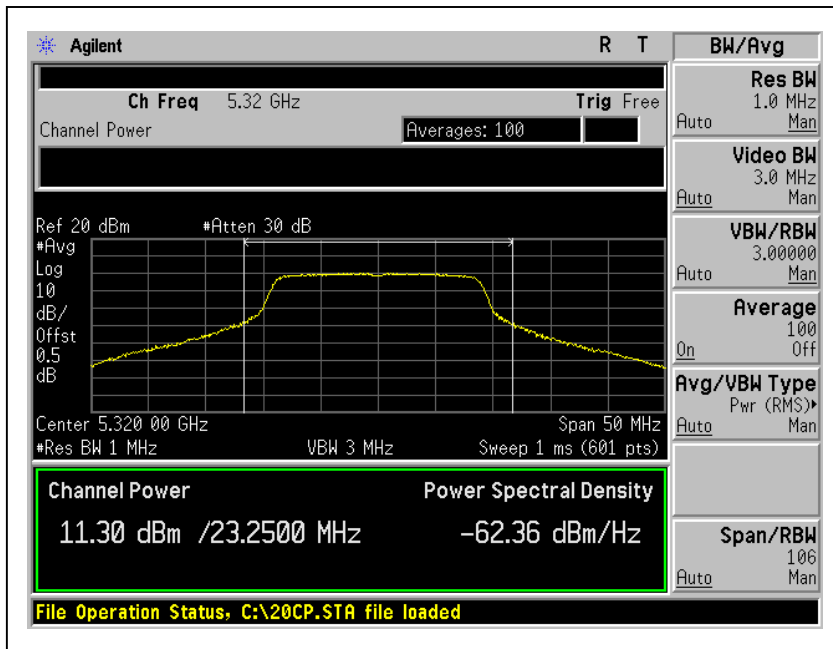
CH7



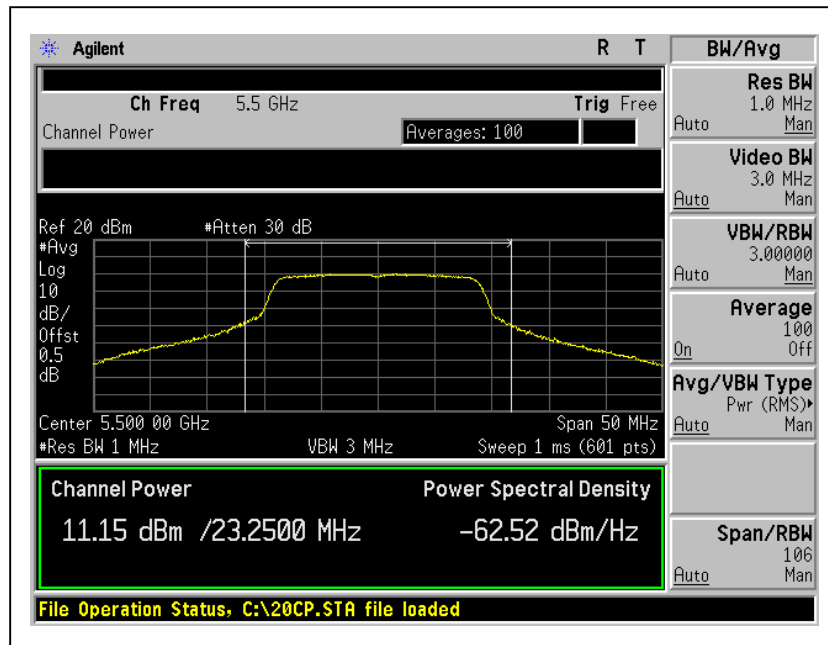


A D T

CH8



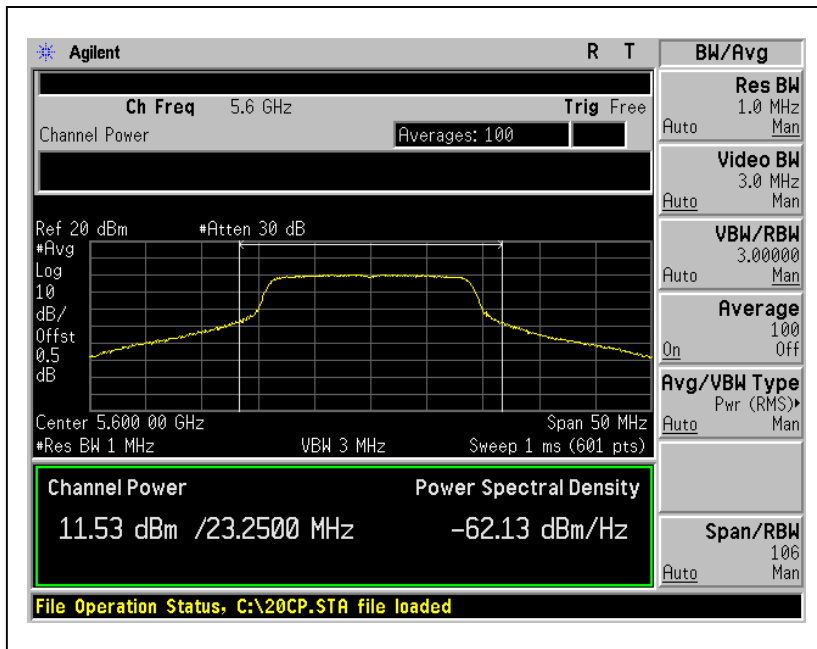
CH9



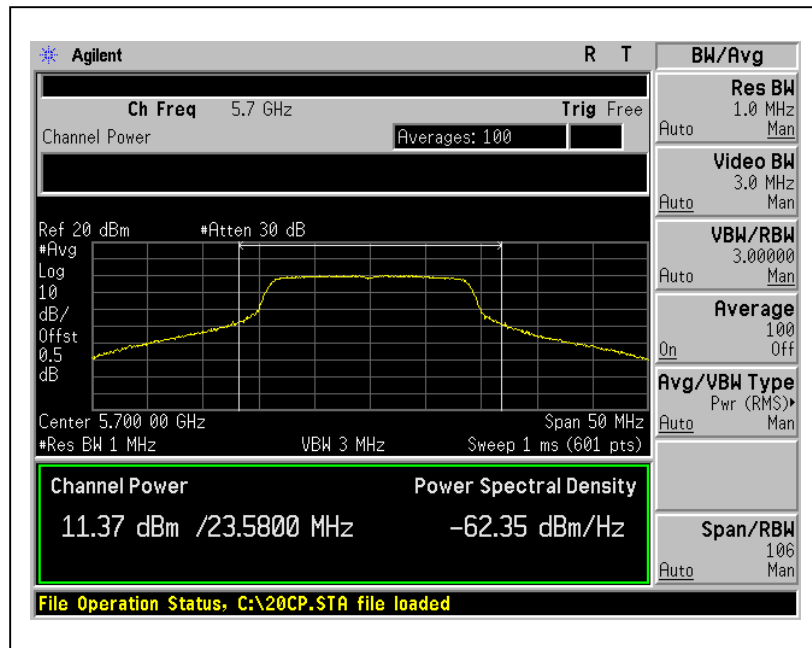


A D T

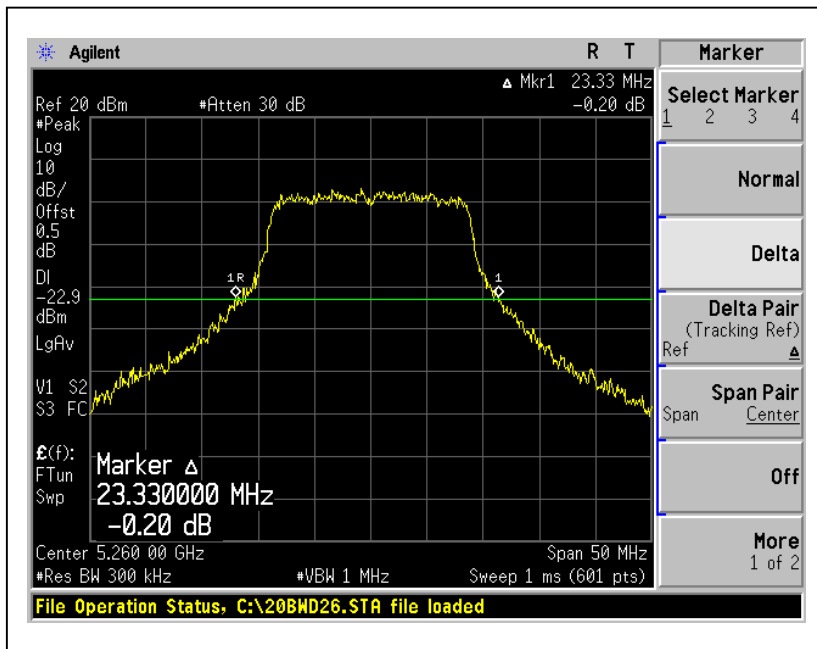
CH14



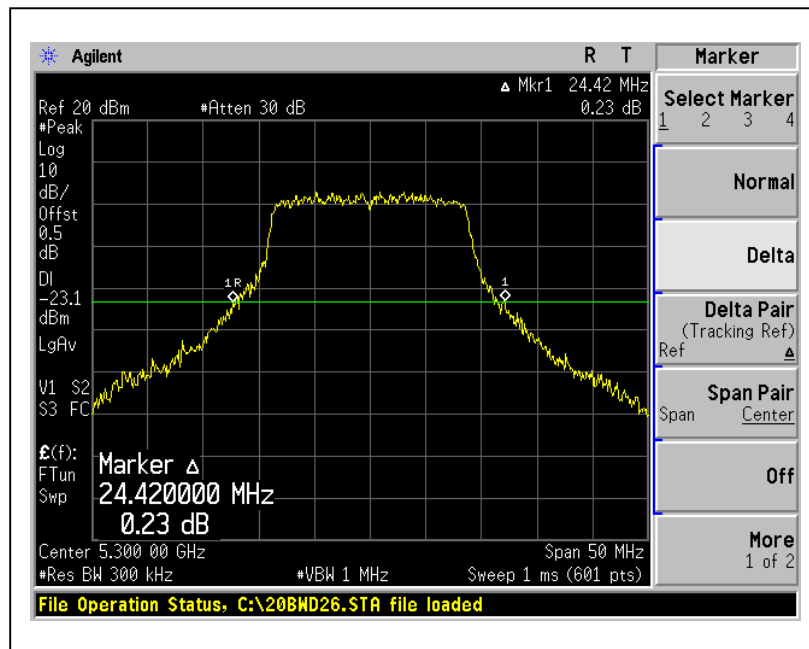
CH19



26dB Occupied Bandwidth:
CH5



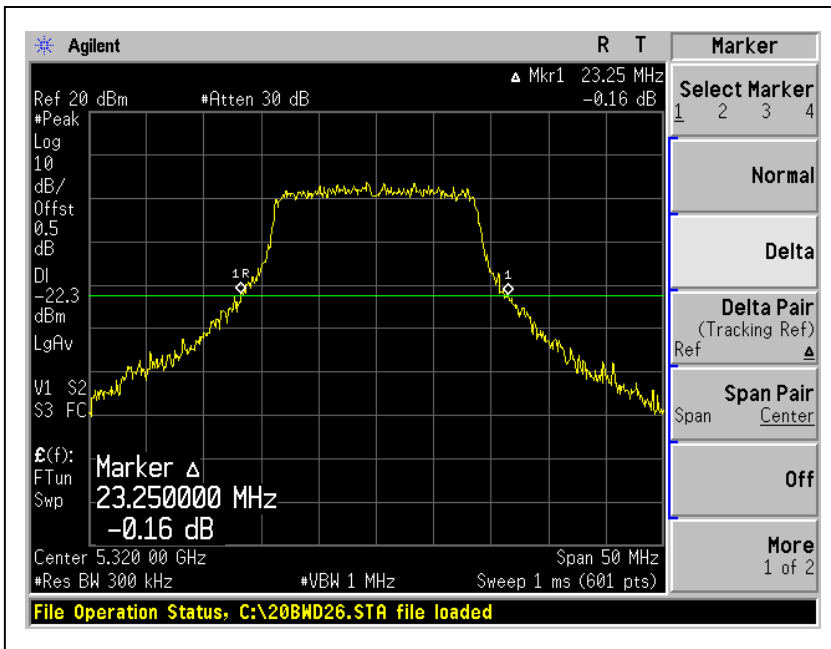
CH7



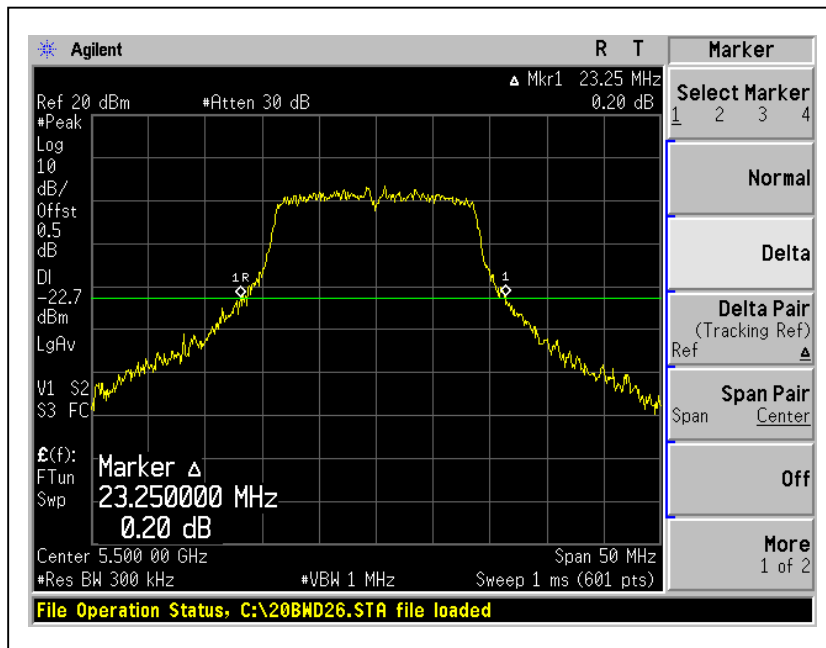


A D T

CH8



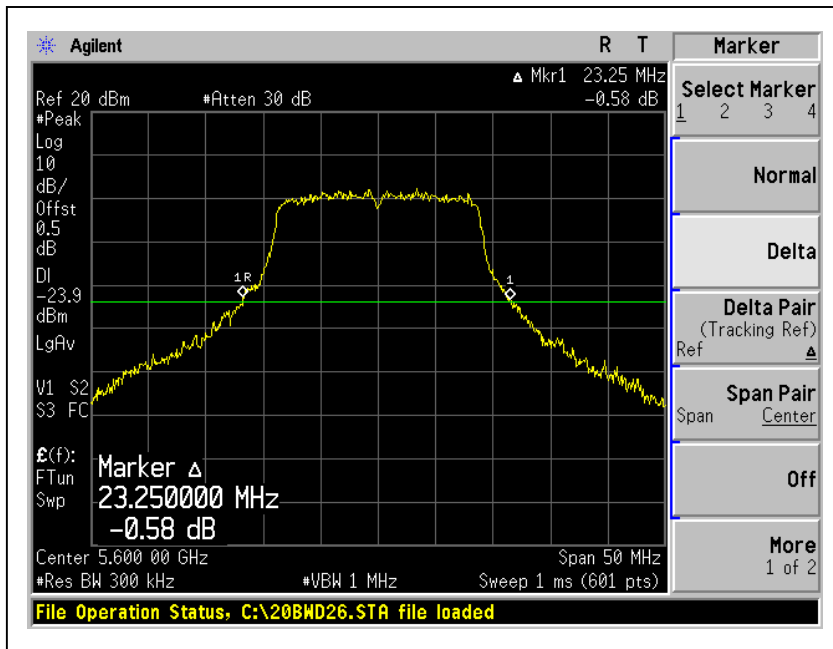
CH9



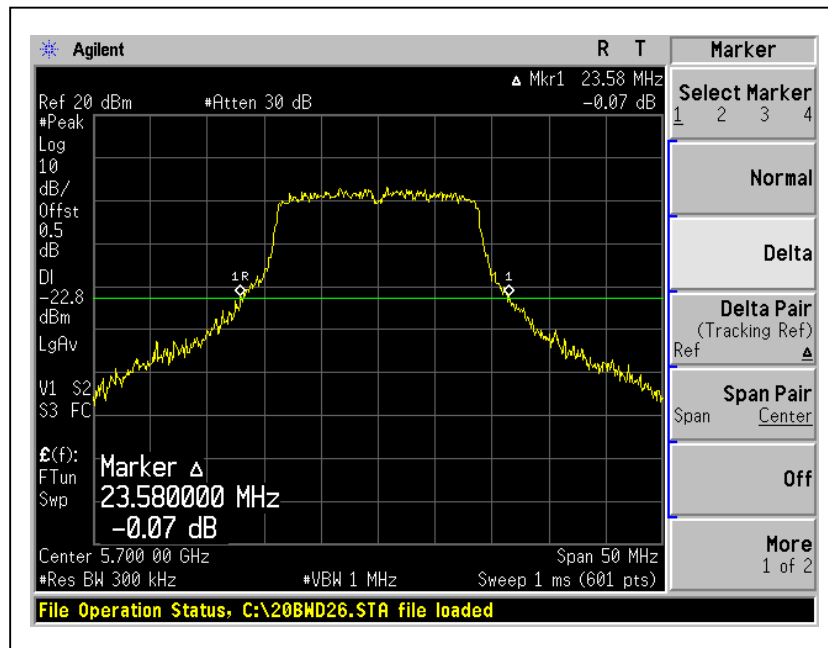


A D T

CH14



CH19





A D T

DRAFT 802.11n (40MHz) OFDM MODULATION:

| | | | |
|------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 13.5Mbps |
| INPUT POWER | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 26deg.C, 63%RH, 965hPa |
| TESTED BY | Wen Yu | | |

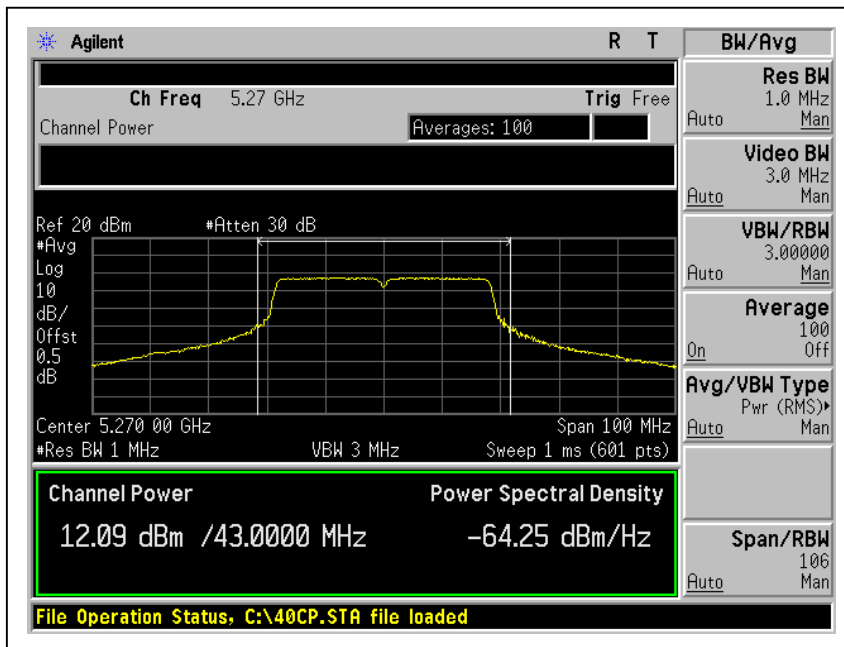
| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER OUTPUT (dBm) | | | PEAK POWER OUTPUT (mW) | | | TOTAL PEAK POWER (dBm) | TOTAL PEAK POWER (mW) | PEAK POWER LIMIT (dBm) | 26dBc Occupied Bandwidth (MHz) | PASS/ FAIL |
|---------|-------------------------|-------------------------|---------|---------|------------------------|---------|---------|------------------------|-----------------------|------------------------|--------------------------------|------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 0 | Chain 1 | Chain 2 | | | | | |
| 3 | 5270 | 12.09 | 10.94 | 11.07 | 16.181 | 12.417 | 12.794 | 16.17 | 41.392 | 24.00 | 43.00 | PASS |
| 4 | 5310 | 11.97 | 11.17 | 11.11 | 15.740 | 13.092 | 12.912 | 16.21 | 41.744 | 24.00 | 45.50 | PASS |
| 5 | 5510 | 7.99 | 7.98 | 8.82 | 6.295 | 6.281 | 7.621 | 13.05 | 20.197 | 24.00 | 45.00 | PASS |
| 7 | 5590 | 11.12 | 11.78 | 11.22 | 12.942 | 15.066 | 13.243 | 16.15 | 41.251 | 24.00 | 45.33 | PASS |
| 9 | 5670 | 12.09 | 11.52 | 11.25 | 16.181 | 14.191 | 13.335 | 16.41 | 43.707 | 24.00 | 44.17 | PASS |

NOTE: The 26dBc Occupied Bandwidth plot, please refer to the following pages.

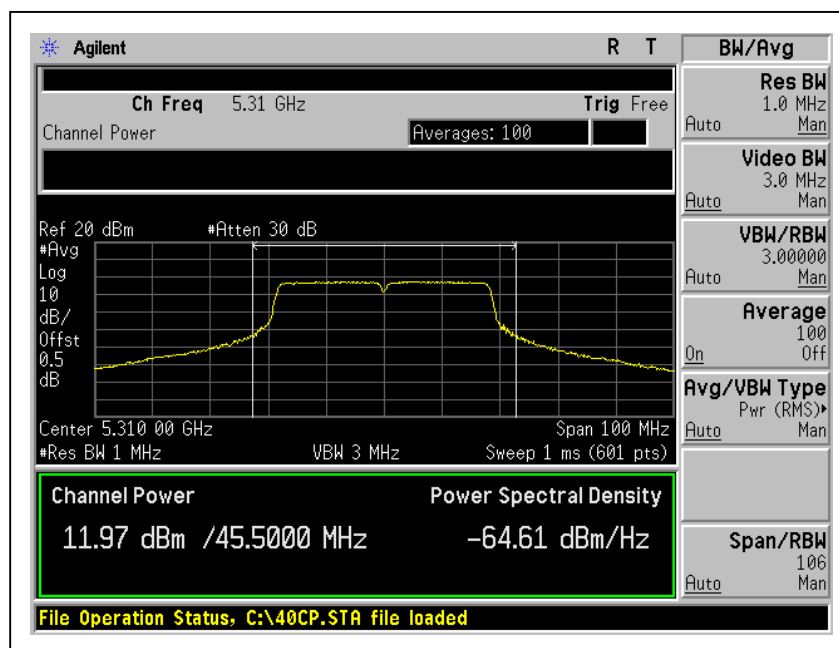


A D T

Peak Power Output: For Chain (0) :CH3



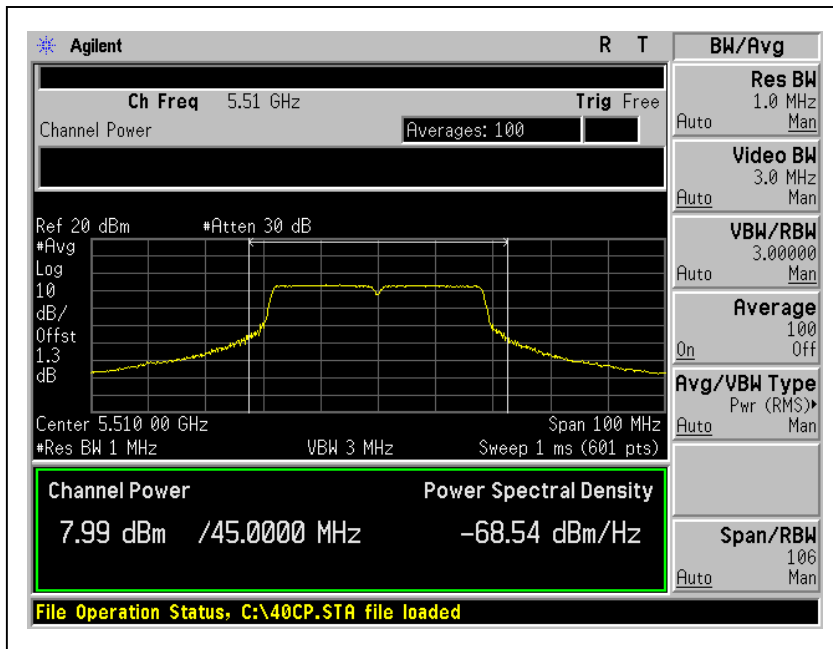
CH4



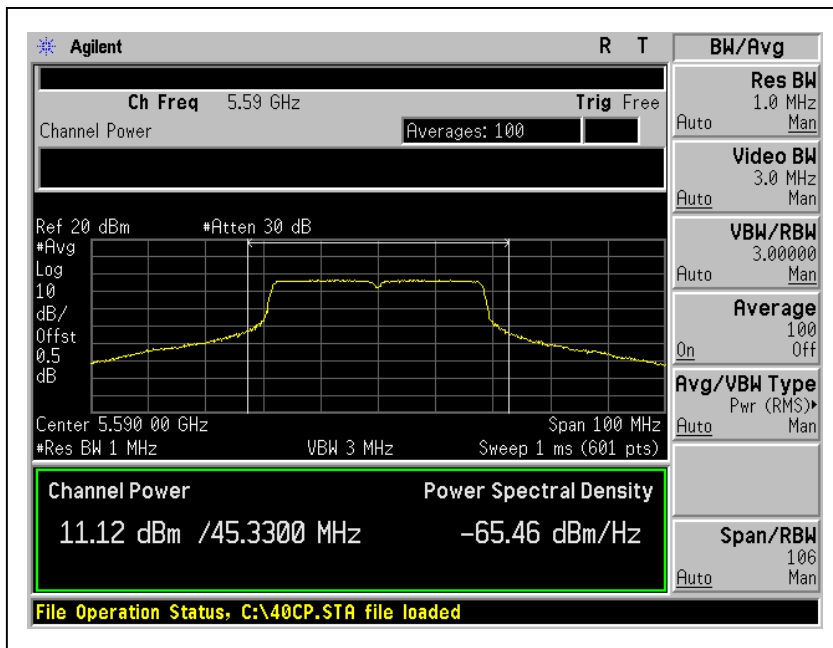


A D T

CH5



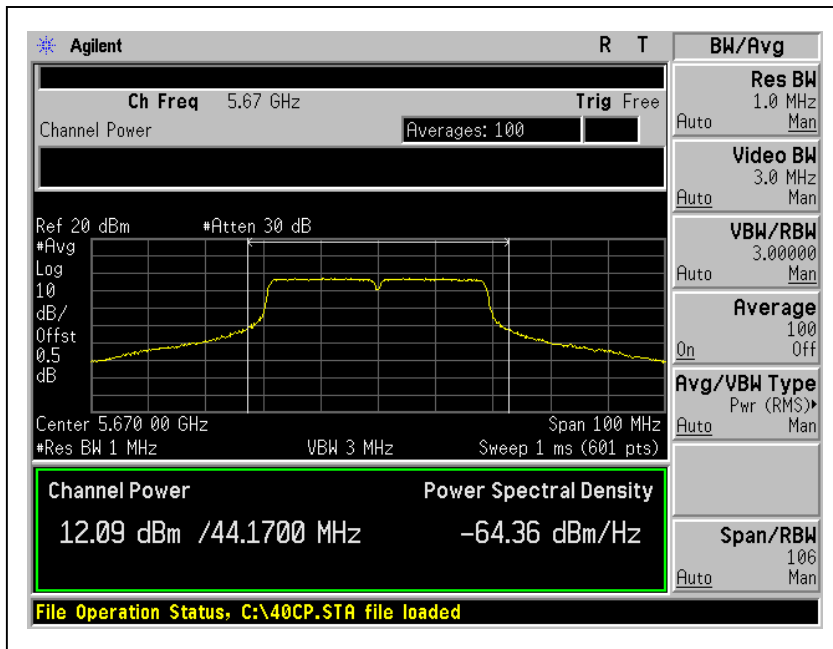
CH7



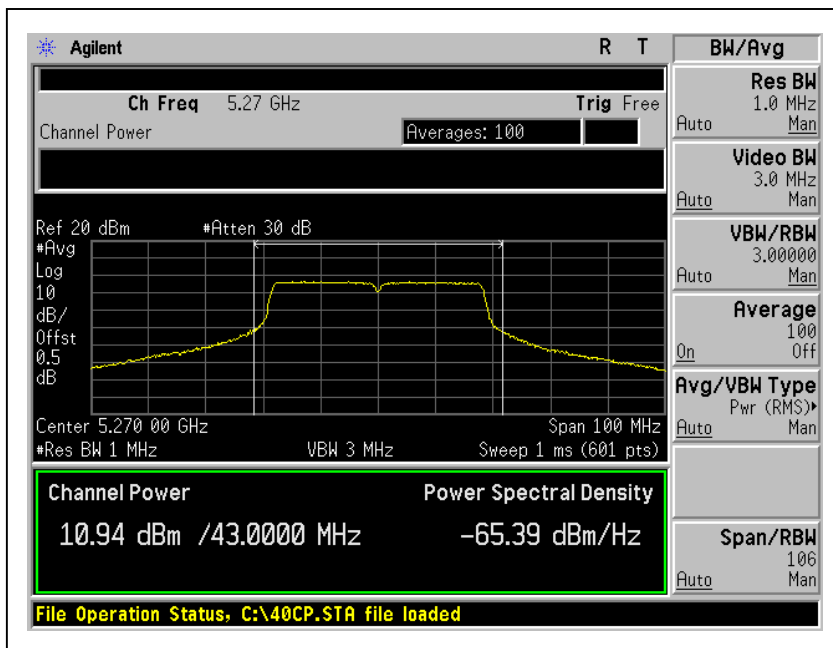


A D T

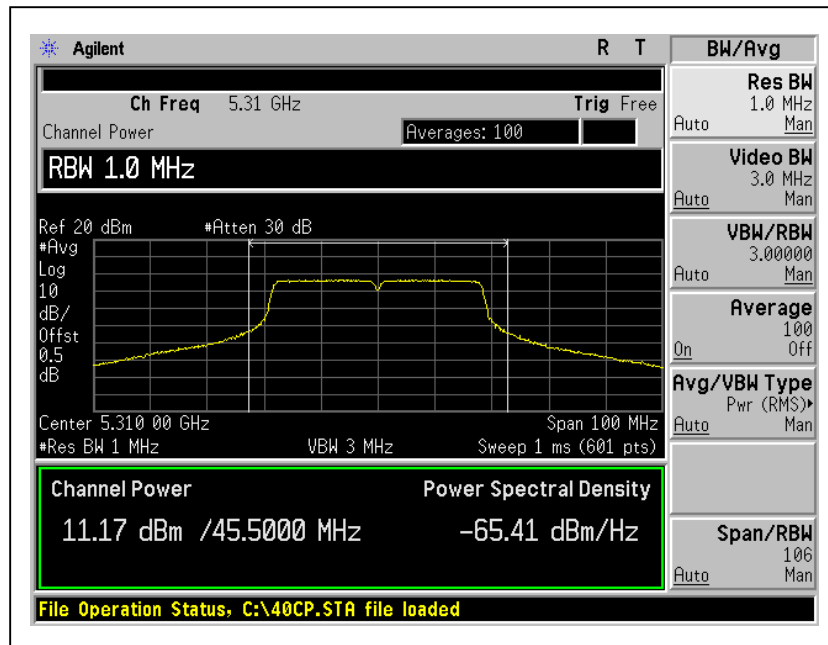
CH8



For Chain (1) :CH3



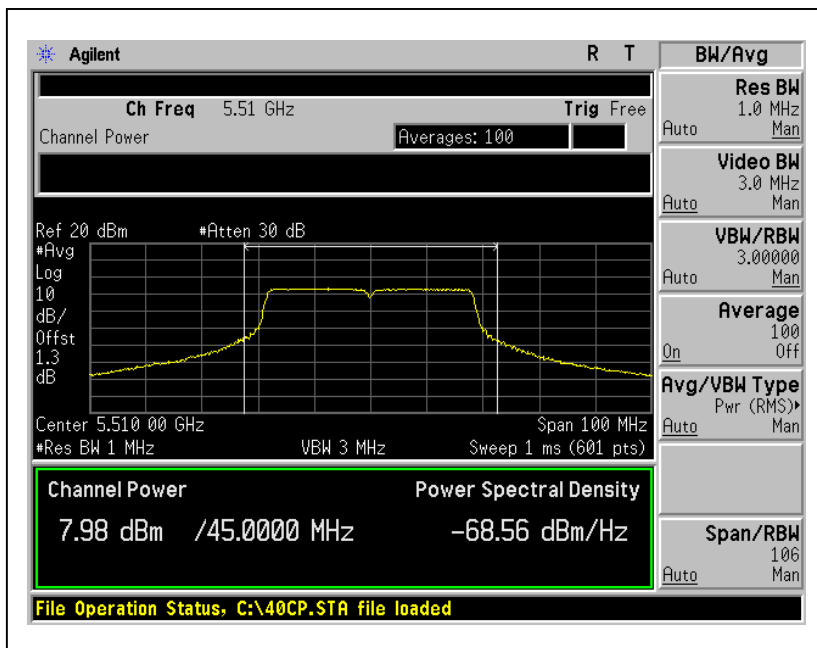
CH4



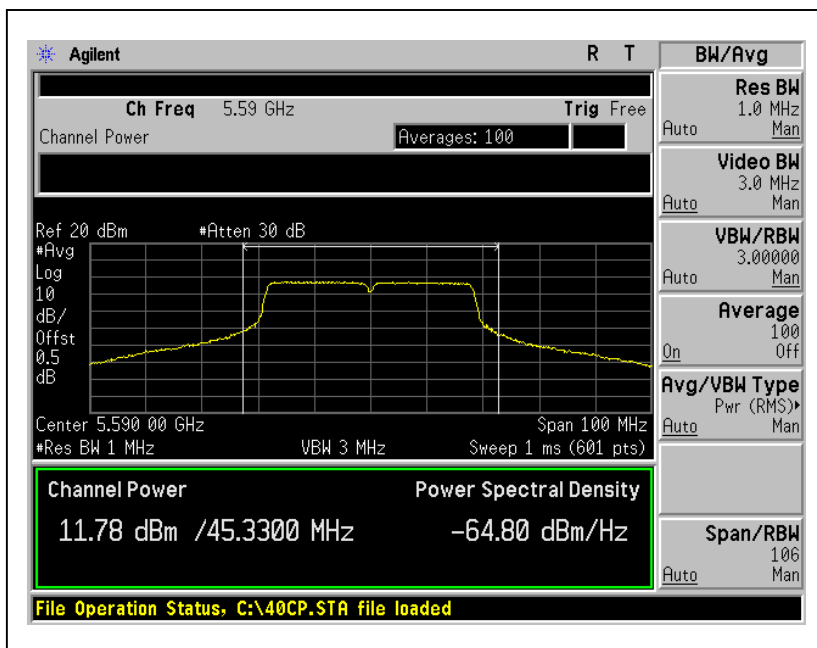


A D T

CH5



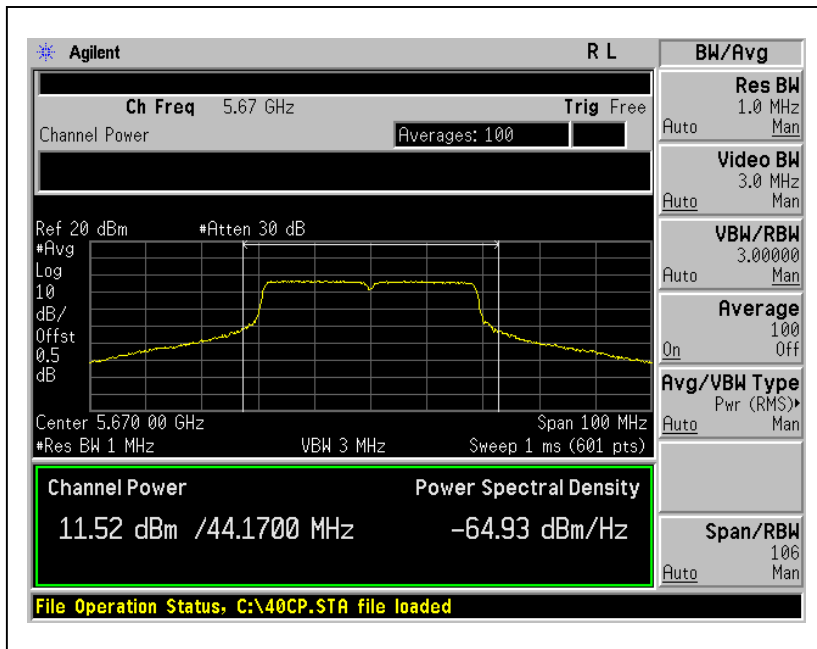
CH7





A D T

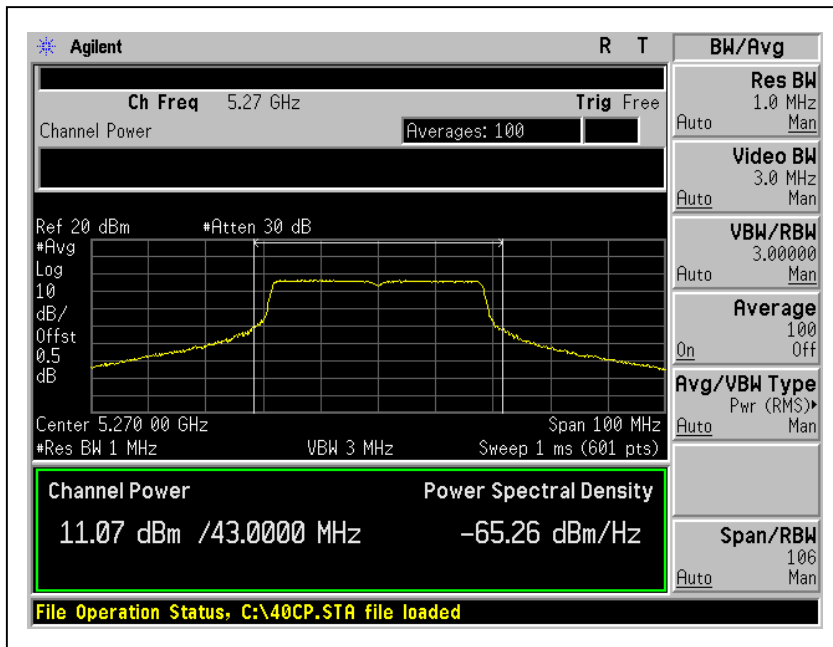
CH8



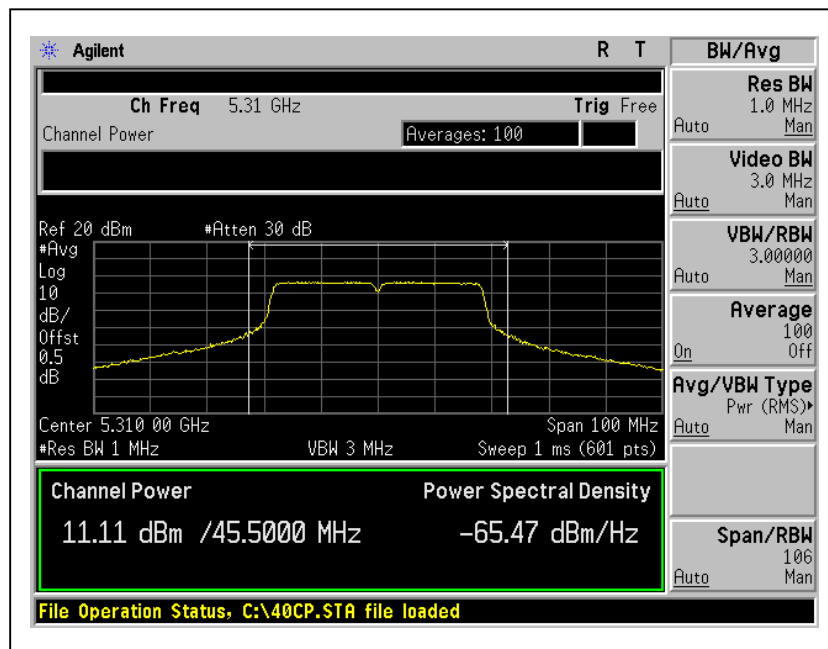


A D T

For Chain (2) :CH3



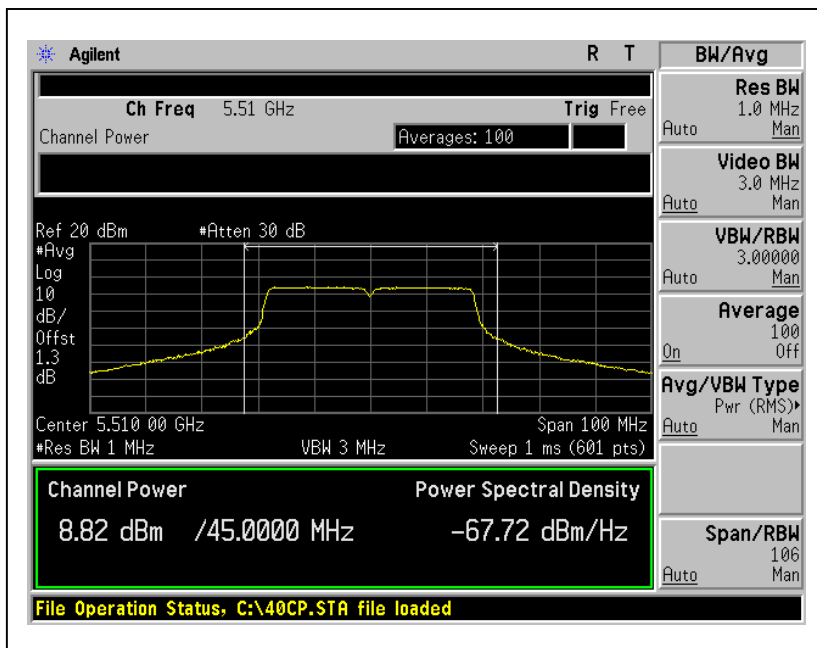
CH4



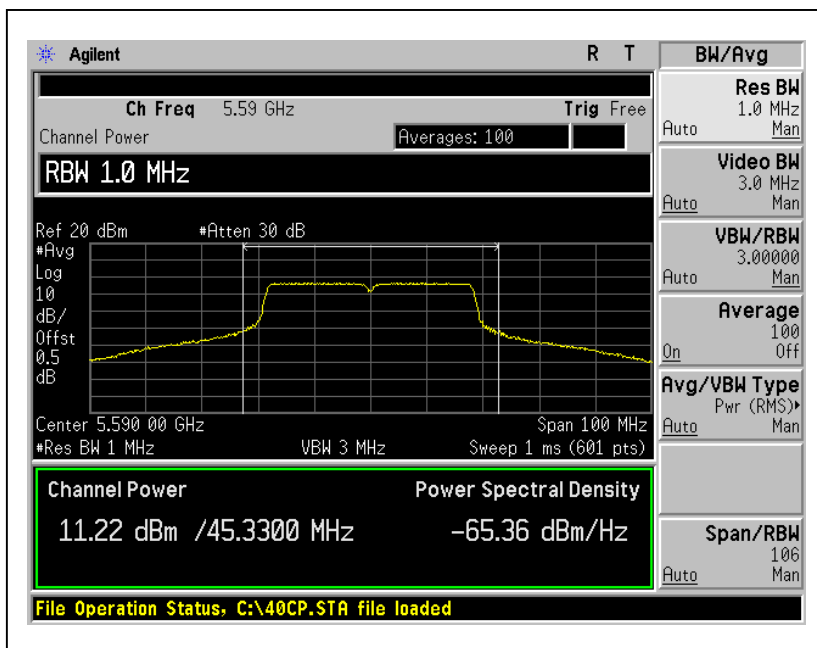


A D T

CH5



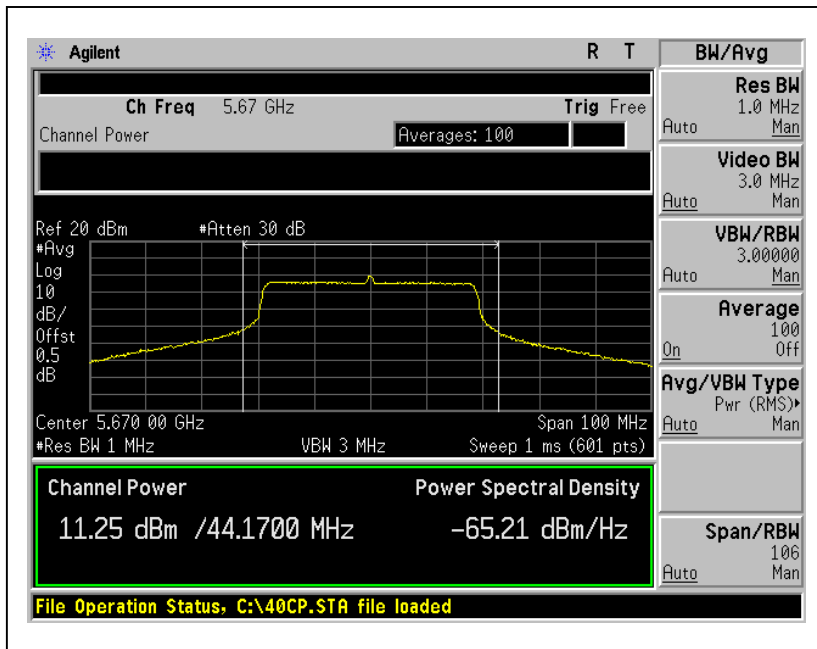
CH7





A D T

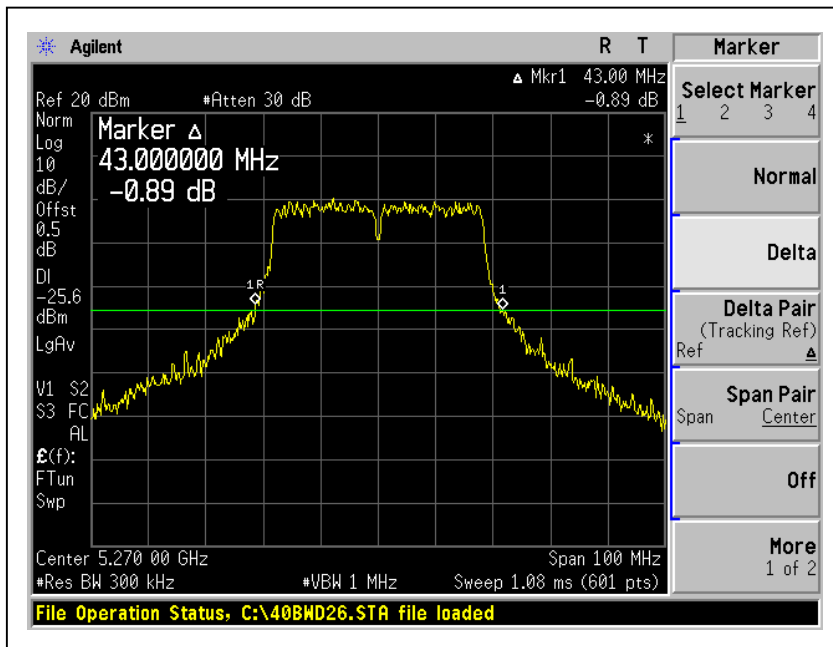
CH8



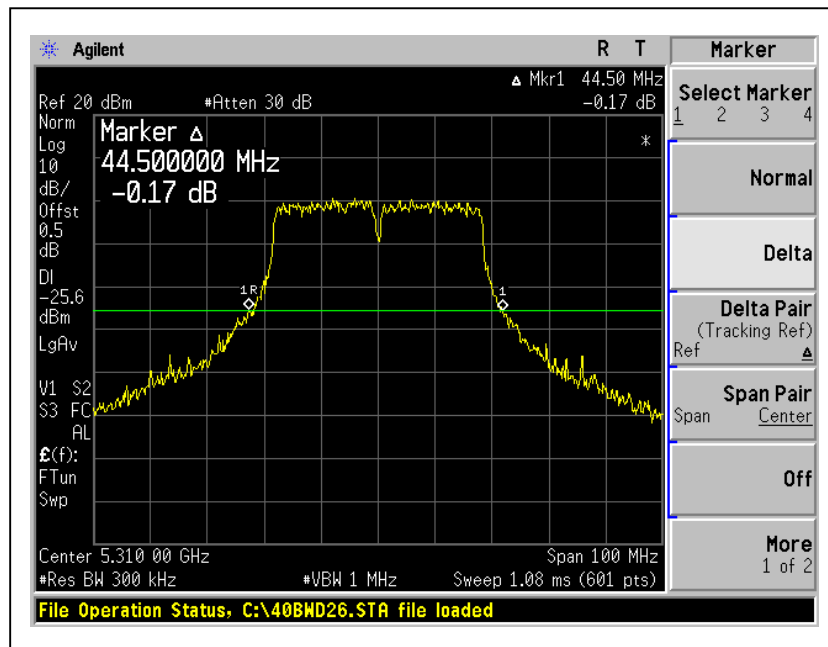


A D T

26dB Occupied Bandwidth: CH3



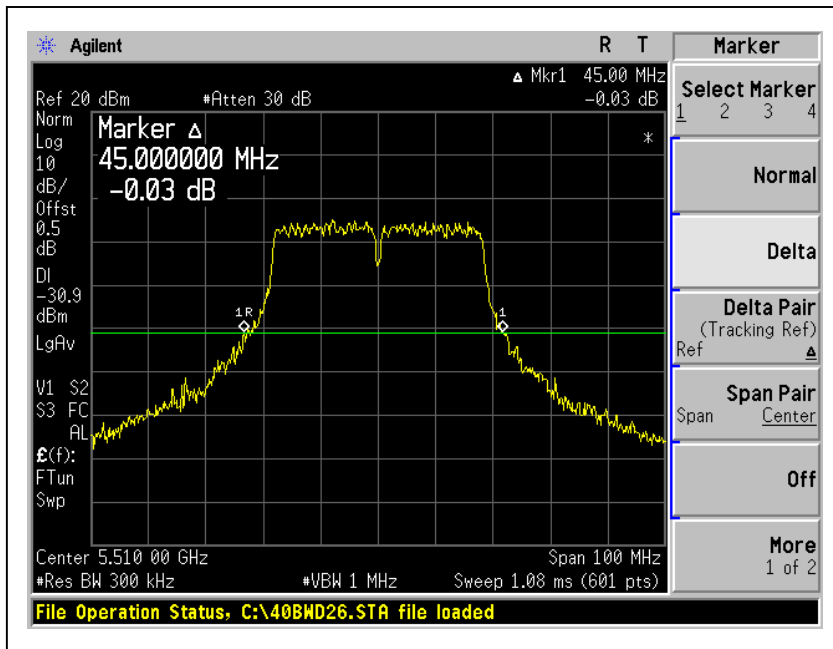
CH4



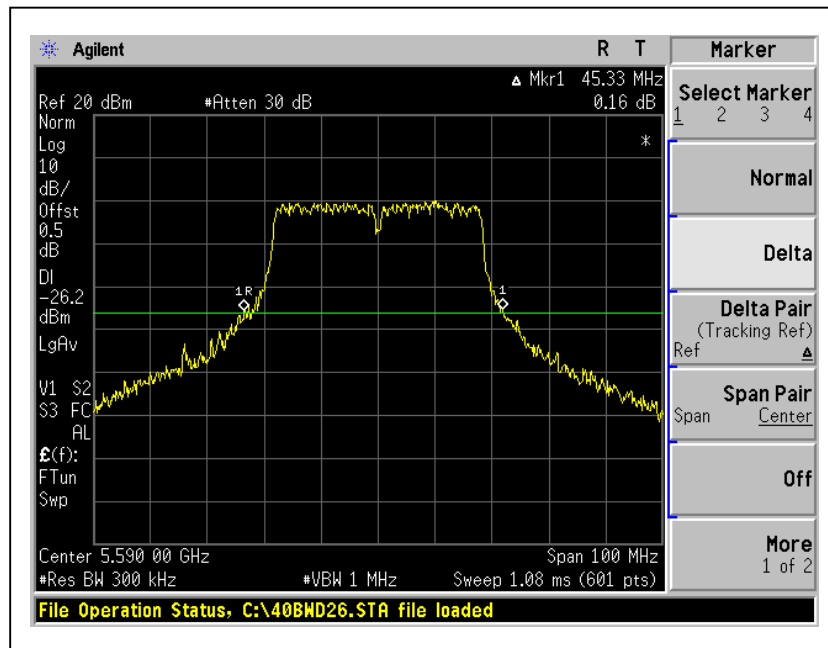


A D T

CH5



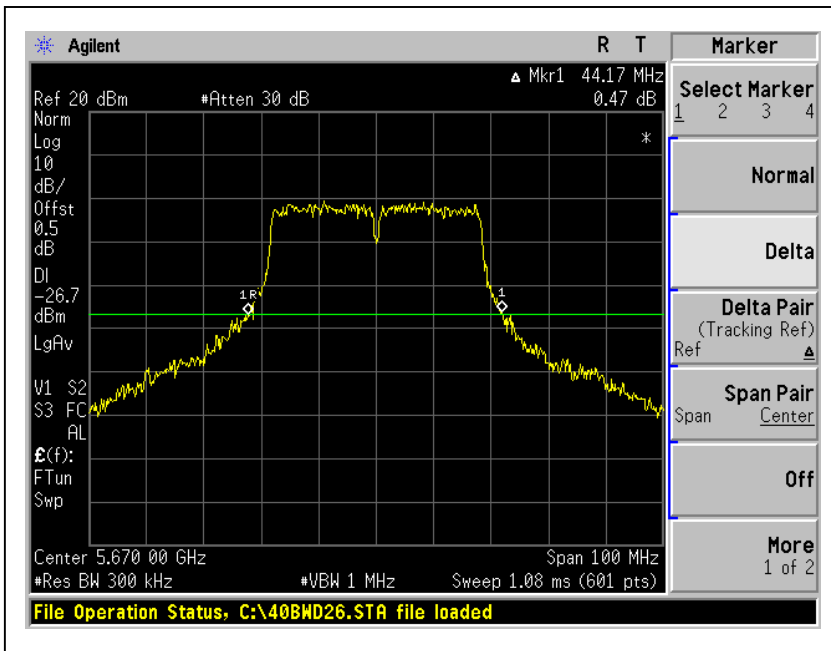
CH7





A D T

CH8





4.3.10 TEST RESULTS – ANTENNA 8

802.11a OFDM MODULATION:

| | | | |
|------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 6Mbps |
| INPUT POWER | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 26deg.C, 63%RH, 965hPa |
| TESTED BY | Rex Huang | | |

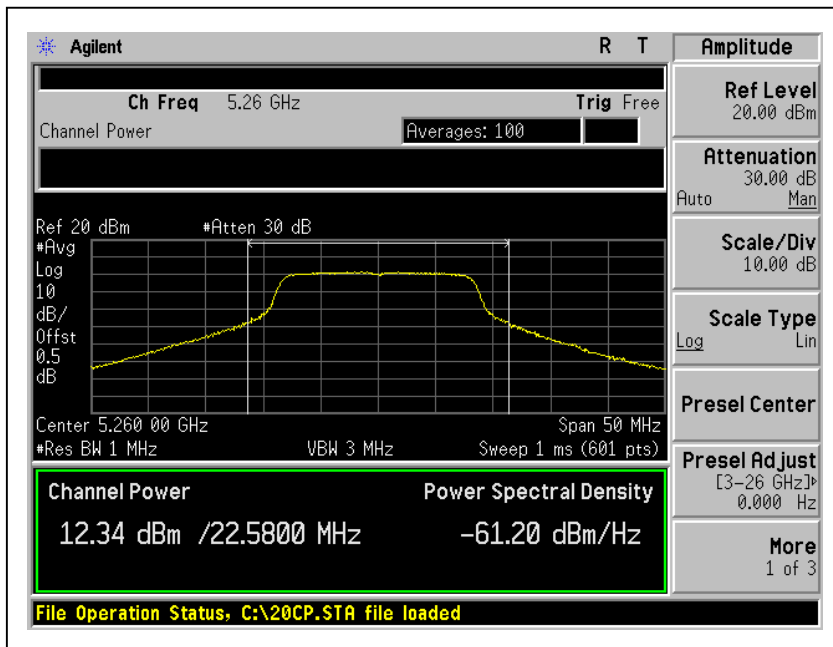
| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER OUTPUT (dBm) | | | PEAK POWER OUTPUT (mW) | | | TOTAL PEAK POWER (dBm) | TOTAL PEAK POWER (mW) | PEAK POWER LIMIT (dBm) | 26dBc Occupied Bandwidth (MHz) | PASS/ FAIL |
|---------|-------------------------|-------------------------|---------|---------|------------------------|---------|---------|------------------------|-----------------------|------------------------|--------------------------------|------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 0 | Chain 1 | Chain 2 | | | | | |
| 5 | 5260 | 12.34 | 10.86 | 11.83 | 17.140 | 12.190 | 15.205 | 16.49 | 44.535 | 24.00 | 22.58 | PASS |
| 7 | 5300 | 12.53 | 11.02 | 11.73 | 17.906 | 12.647 | 14.894 | 16.58 | 45.447 | 24.00 | 22.58 | PASS |
| 8 | 5320 | 11.69 | 11.63 | 11.71 | 14.757 | 14.555 | 14.825 | 16.45 | 44.137 | 24.00 | 23.08 | PASS |
| 9 | 5500 | 11.26 | 12.12 | 11.28 | 13.366 | 16.293 | 13.428 | 16.34 | 43.087 | 24.00 | 22.58 | PASS |
| 14 | 5600 | 11.78 | 11.37 | 11.56 | 15.066 | 13.709 | 14.322 | 16.34 | 43.097 | 24.00 | 22.83 | PASS |
| 19 | 5700 | 11.47 | 10.81 | 11.33 | 14.028 | 12.050 | 13.583 | 15.98 | 39.661 | 24.00 | 22.75 | PASS |

NOTE: The 26dBc Occupied Bandwidth plot, please refer to the following pages.

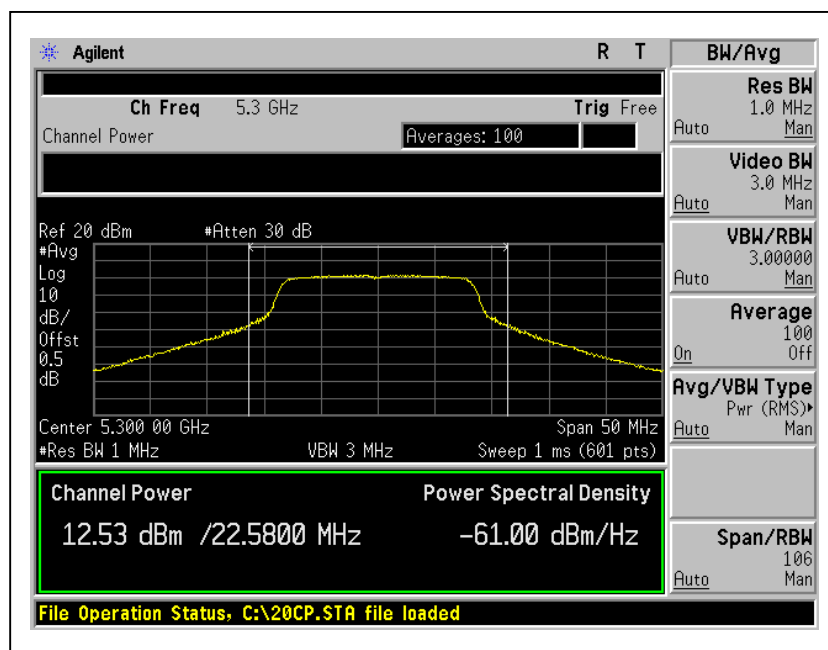


A D T

Peak Power Output: For Chain (0) :CH5



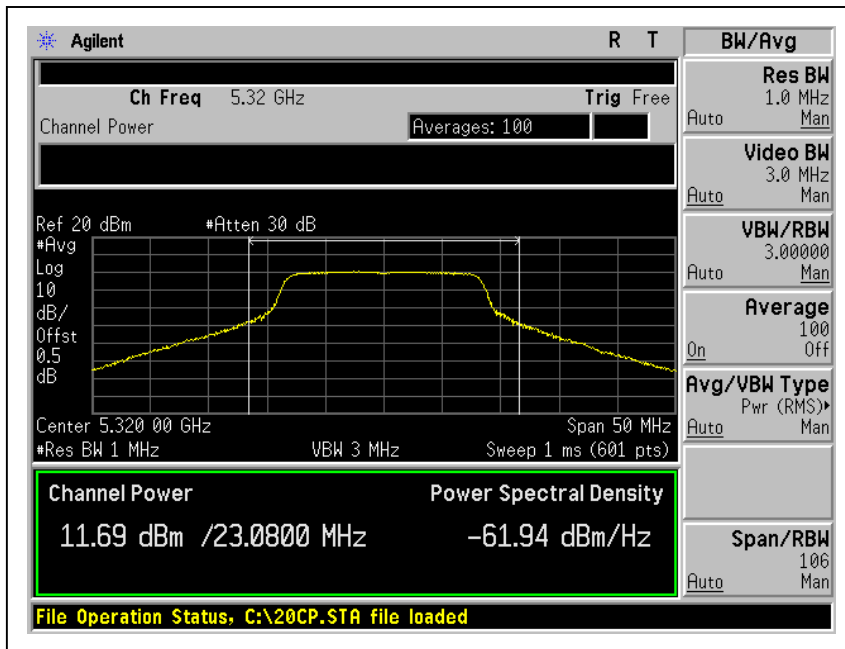
CH7



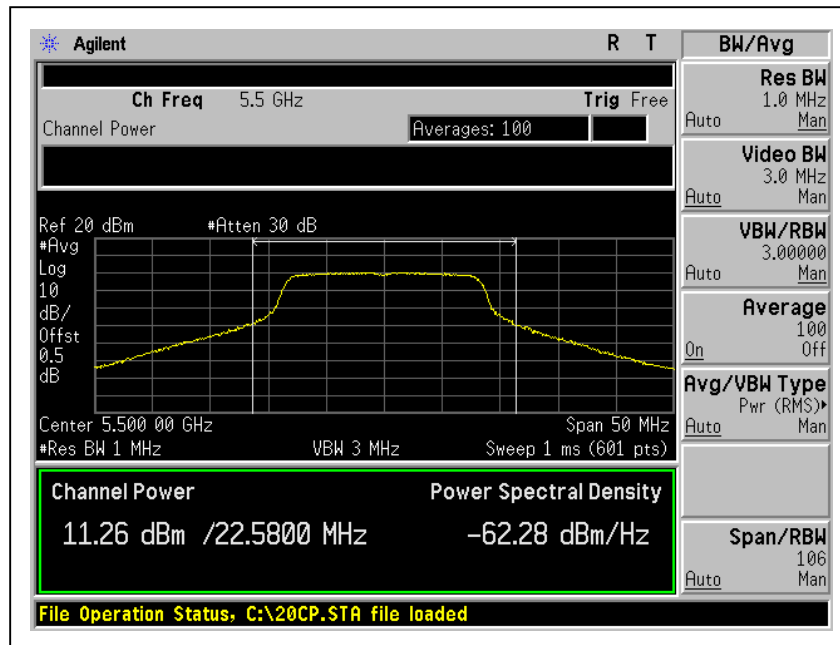


A D T

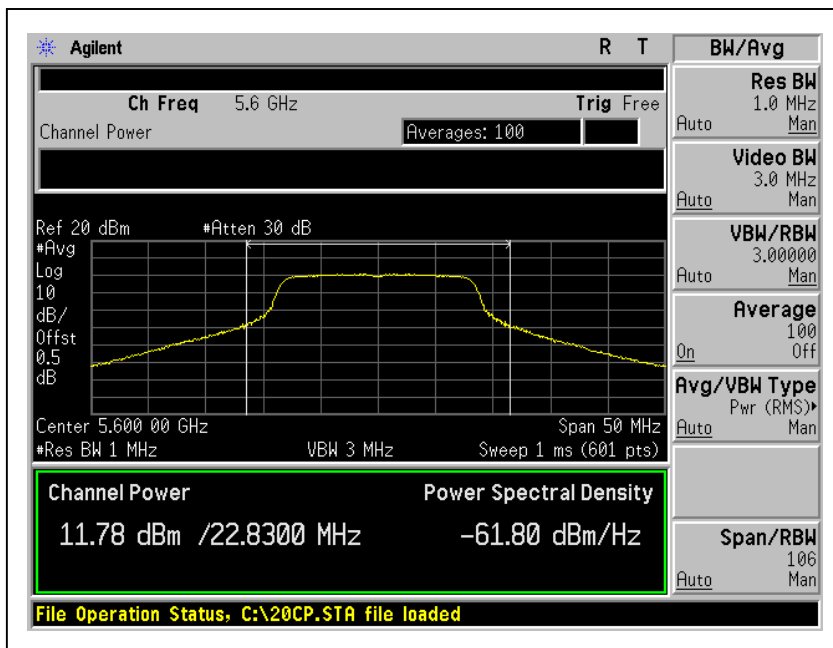
CH8



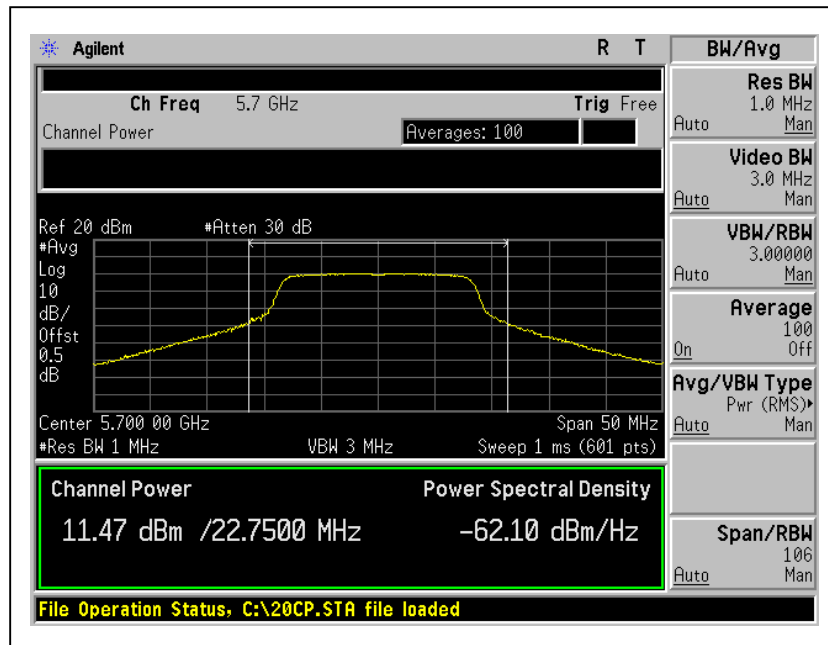
CH9



CH14



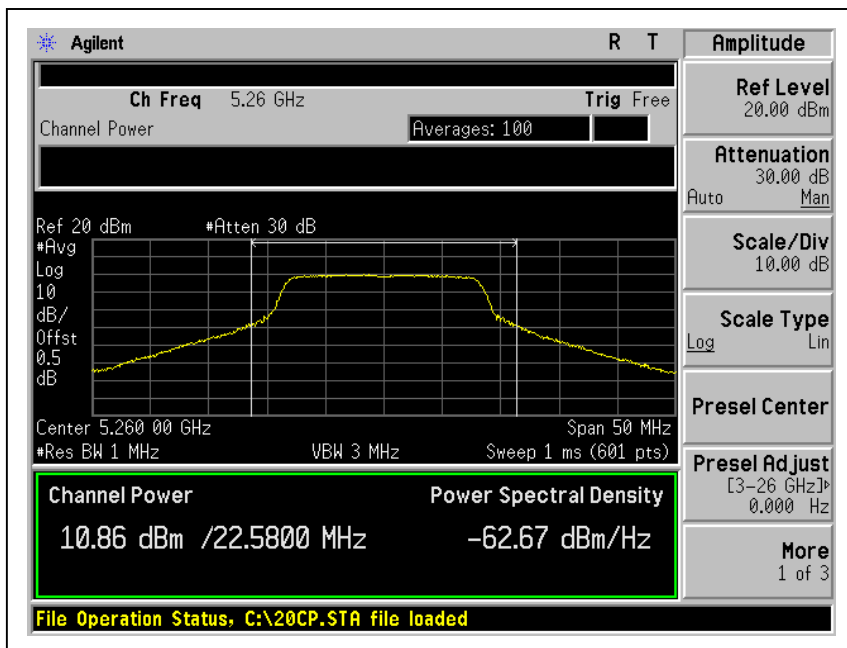
CH19



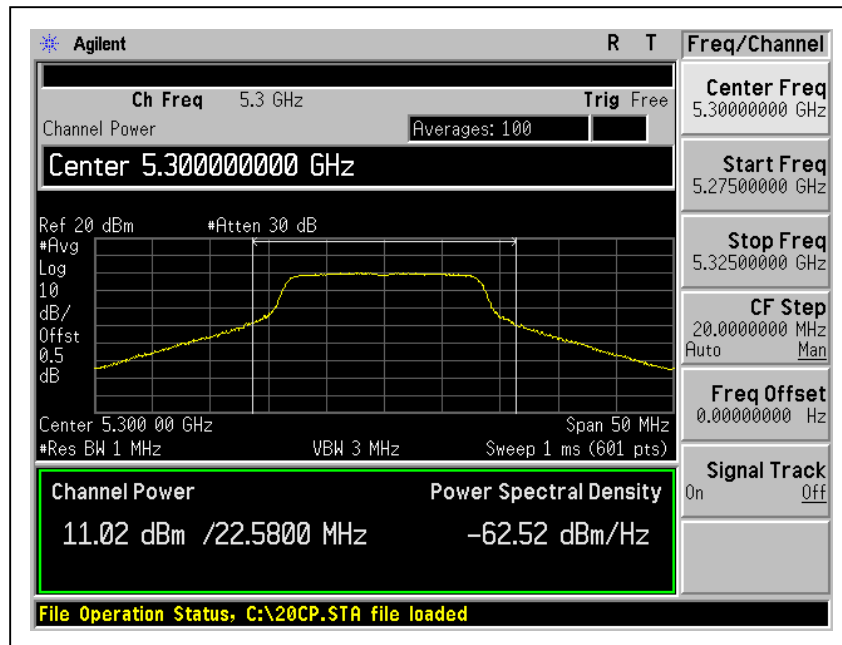


A D T

For Chain (1) :CH5



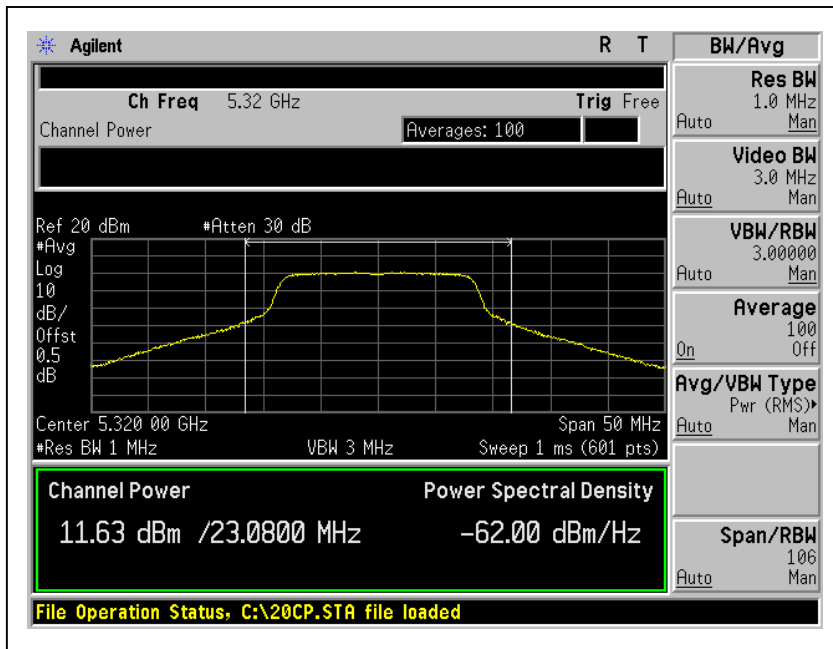
CH7



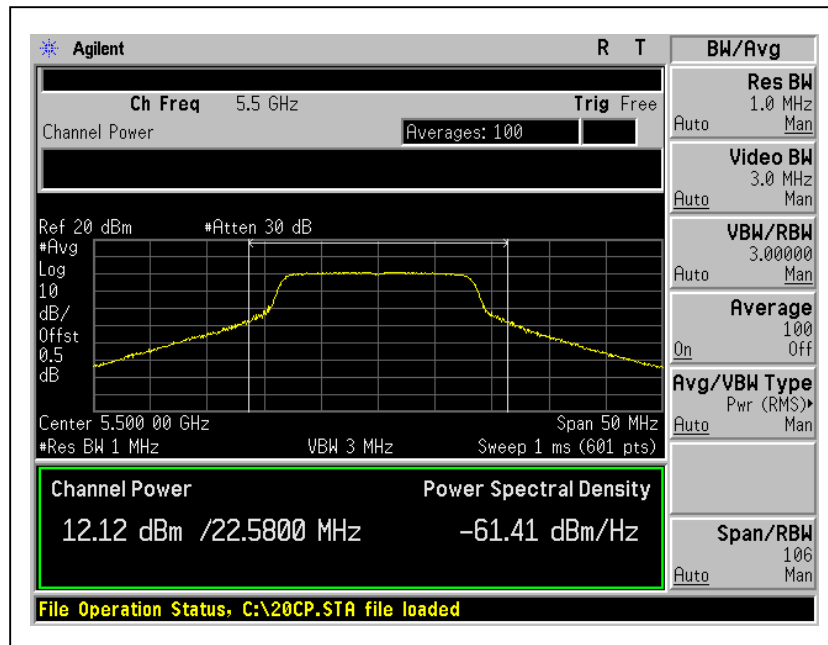


A D T

CH8



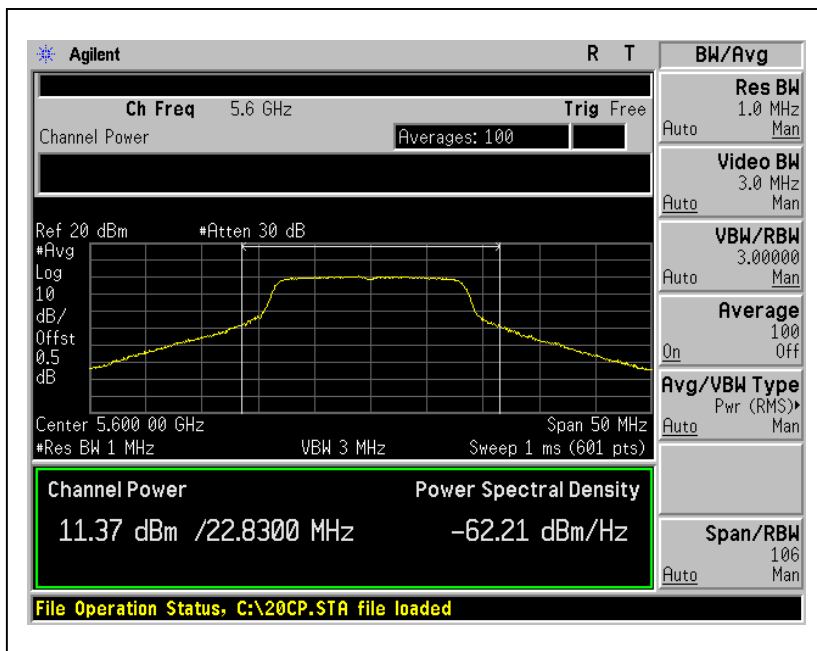
CH9



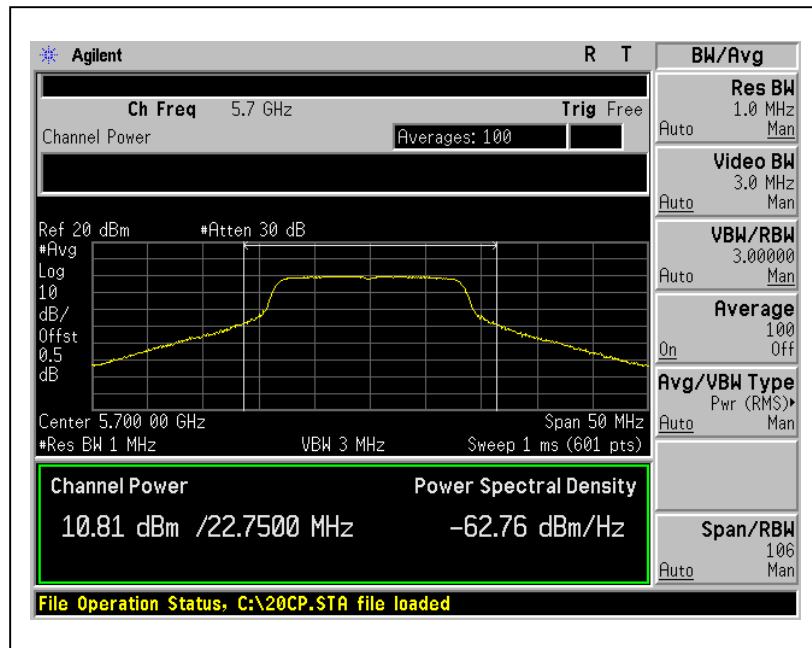


A D T

CH14



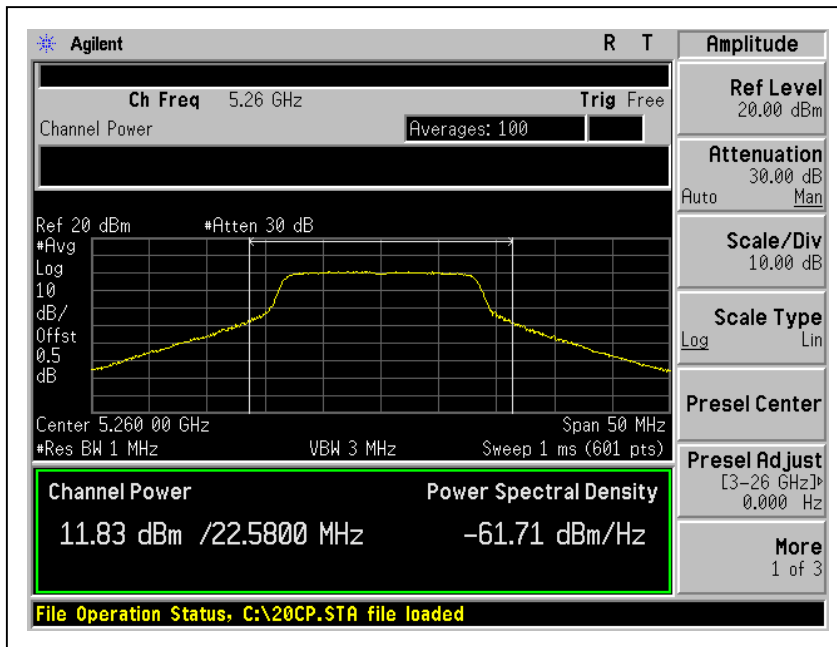
CH19



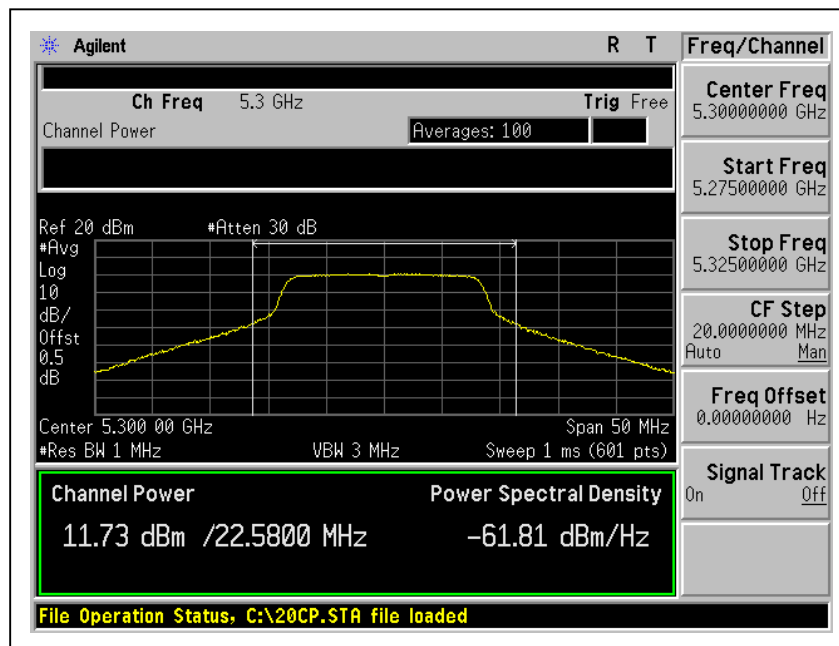


A D T

For Chain (2) :CH5



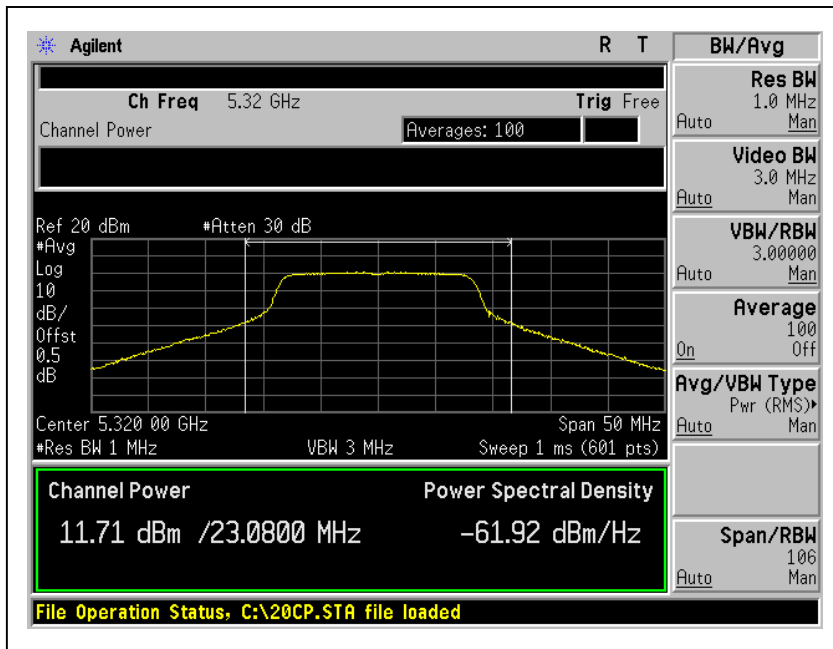
CH7



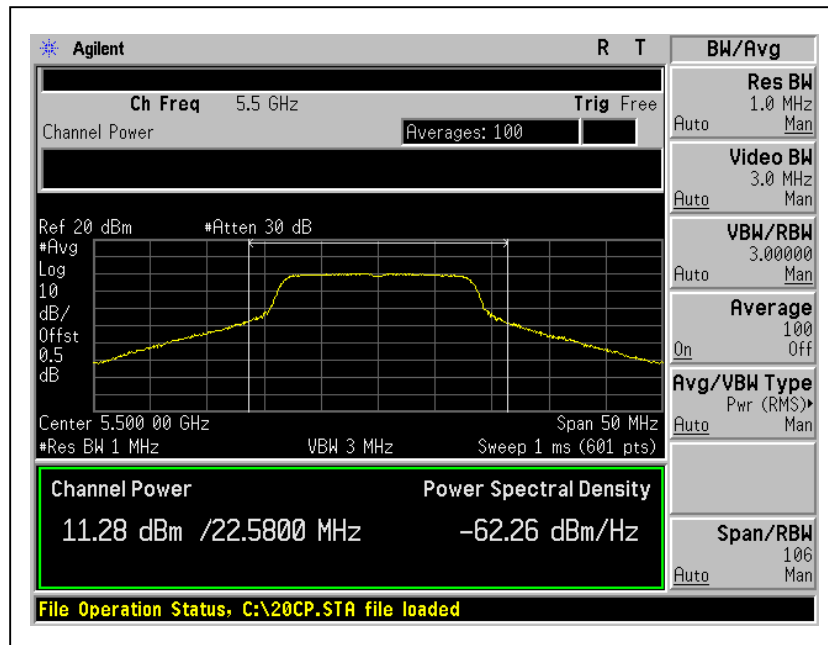


A D T

CH8



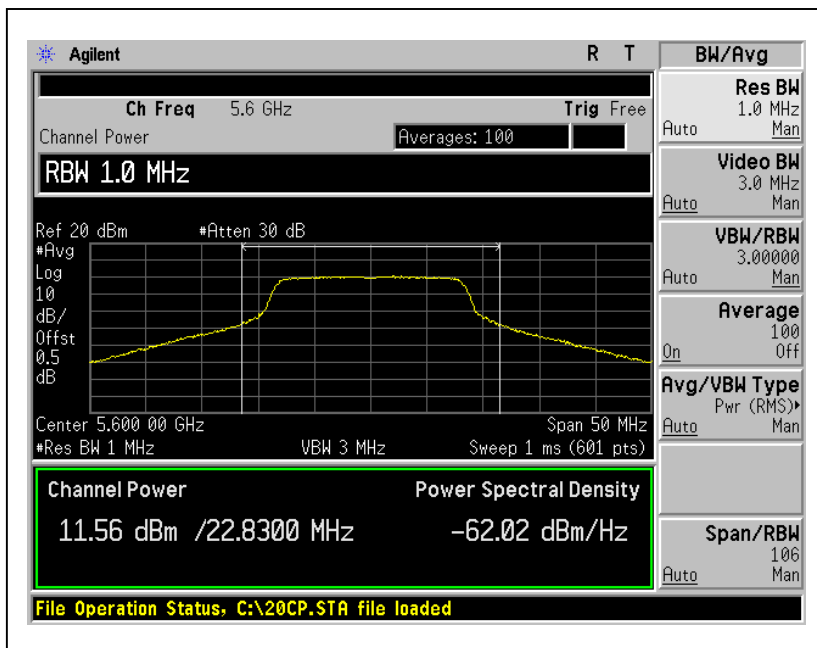
CH9



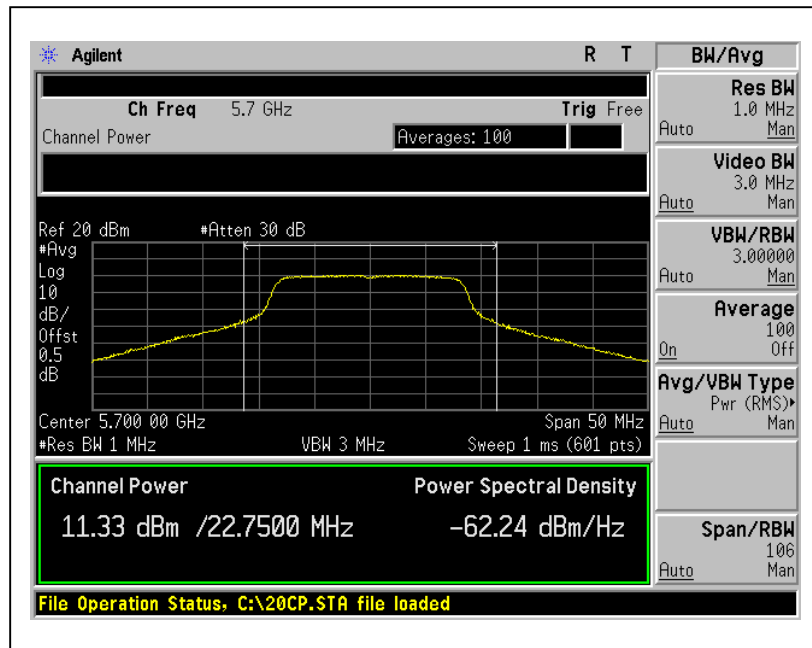


A D T

CH14



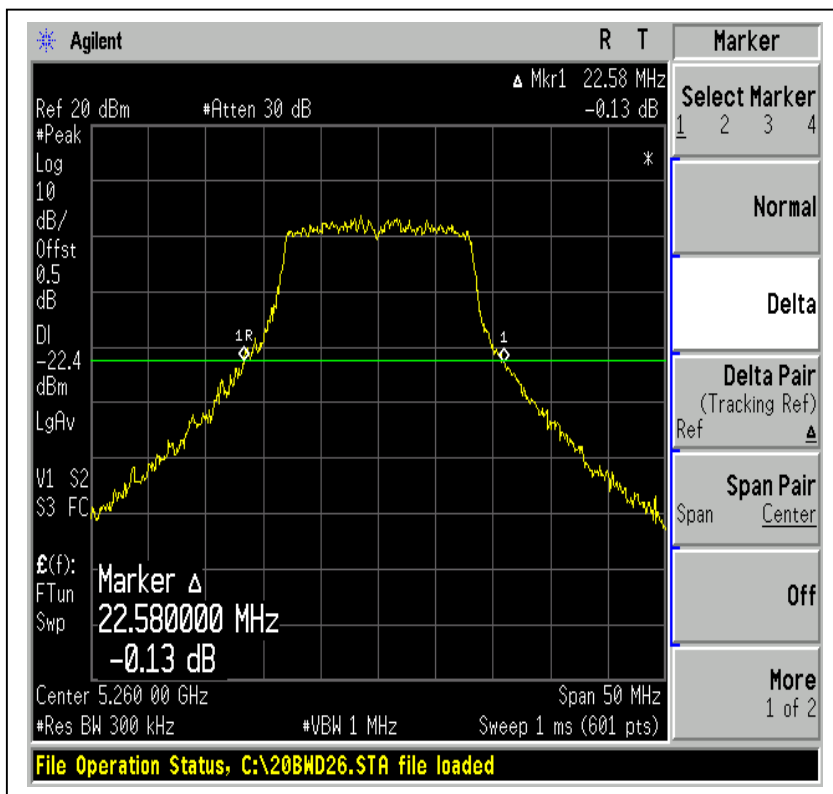
CH19



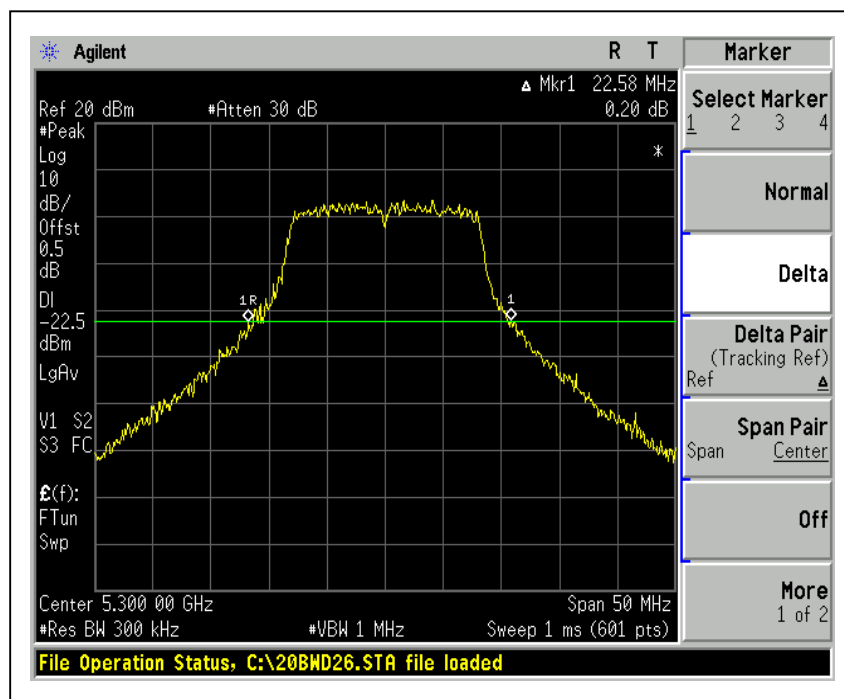


A D T

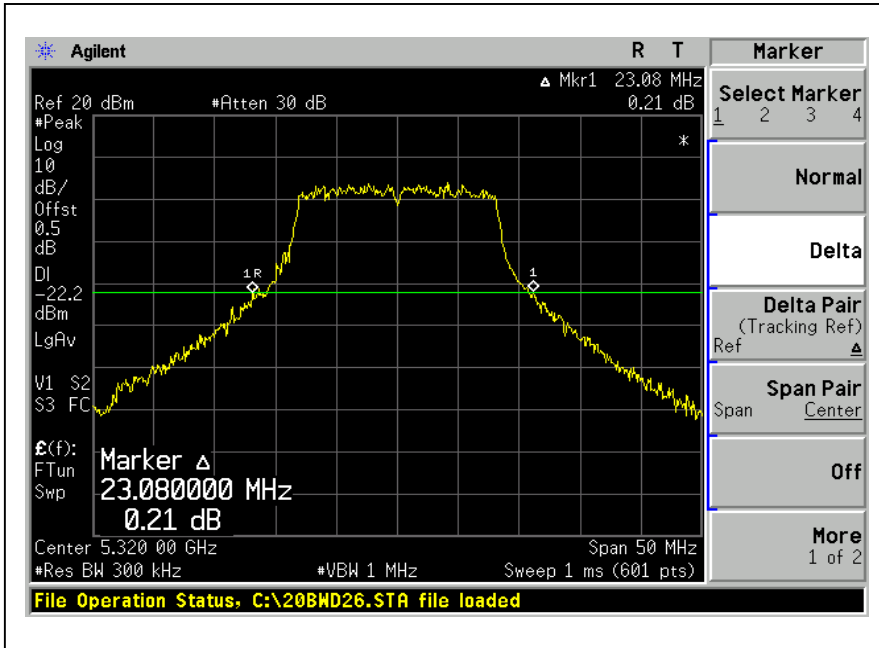
26dB Occupied Bandwidth: CH5



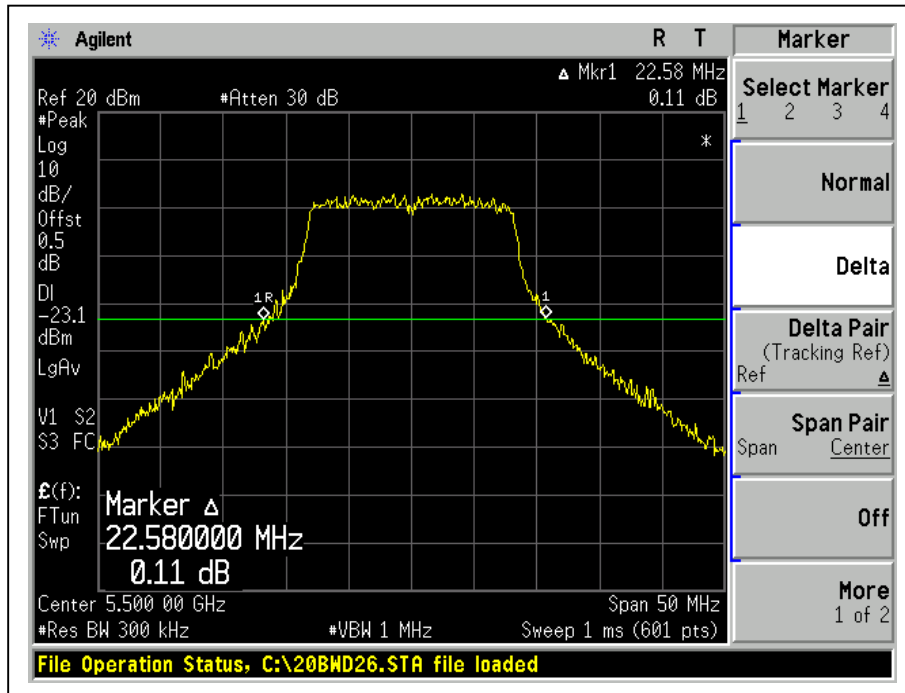
CH7



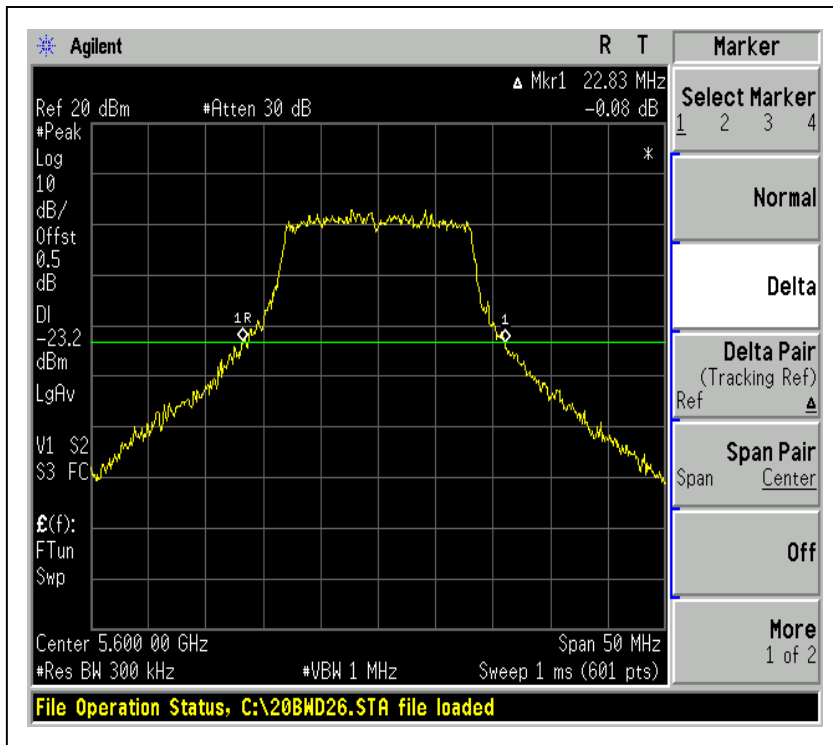
CH8



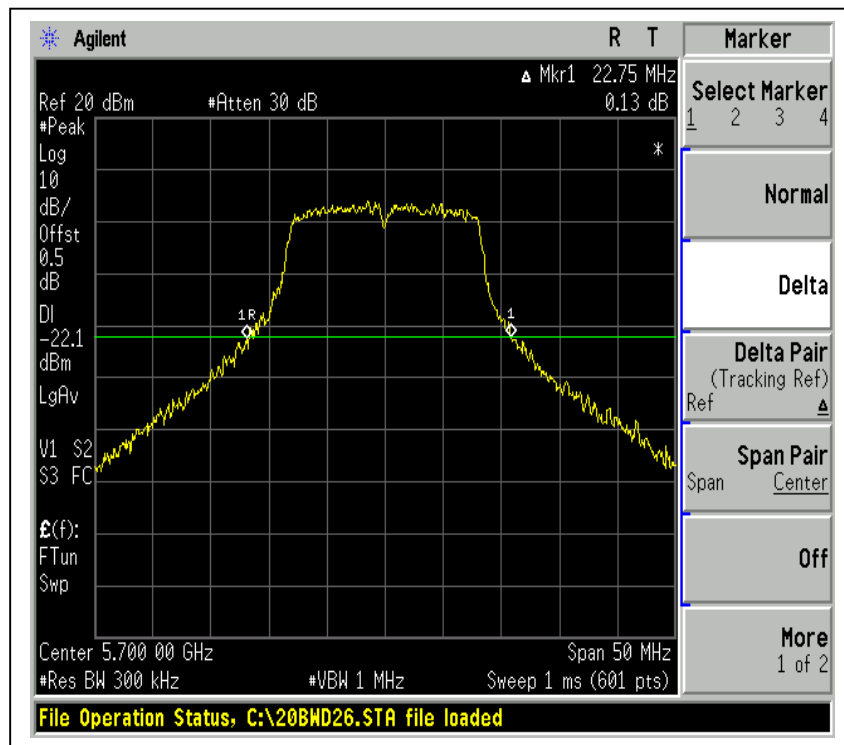
CH9



CH14



CH19





A D T

DRAFT 802.11n (20MHz) OFDM modulation:

| | | | |
|------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 6.5Mbps |
| INPUT POWER | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 26deg.C, 63%RH, 965hPa |
| TESTED BY | Wen Yu | | |

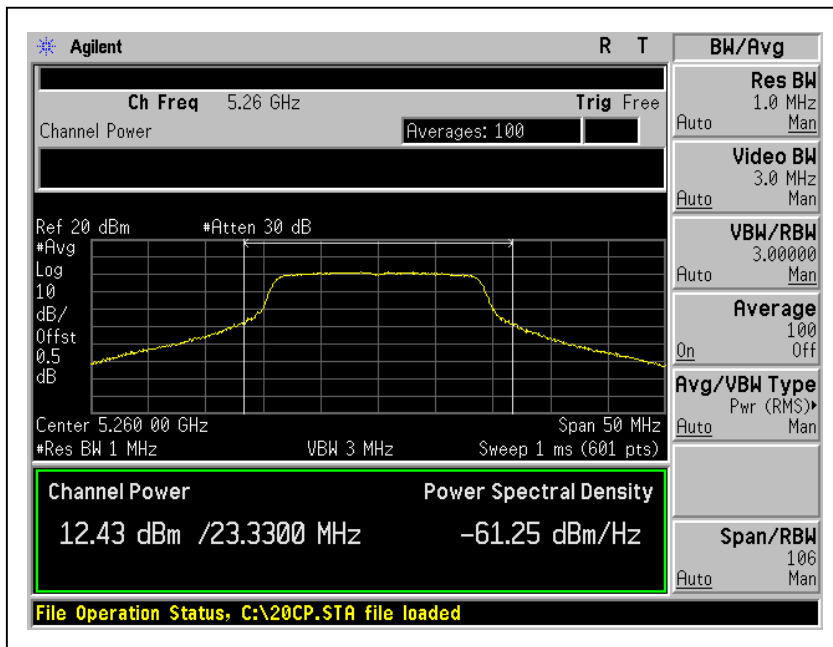
| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER OUTPUT (dBm) | | | PEAK POWER OUTPUT (mW) | | | TOTAL PEAK POWER (dBm) | TOTAL PEAK POWER (mW) | PEAK POWER LIMIT (dBm) | 26dBc Occupied Bandwidth (MHz) | PASS/ FAIL |
|---------|-------------------------|-------------------------|---------|---------|------------------------|---------|---------|------------------------|-----------------------|------------------------|--------------------------------|------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 0 | Chain 1 | Chain 2 | | | | | |
| 5 | 5260 | 12.43 | 10.9 | 11.79 | 17.498 | 12.303 | 15.101 | 16.52 | 44.902 | 24.00 | 23.33 | PASS |
| 7 | 5300 | 12.43 | 10.89 | 11.7 | 17.498 | 12.274 | 14.791 | 16.49 | 44.563 | 24.00 | 24.42 | PASS |
| 8 | 5320 | 12.11 | 11.18 | 11.3 | 16.255 | 13.122 | 13.490 | 16.32 | 42.867 | 24.00 | 23.25 | PASS |
| 9 | 5500 | 11.33 | 12.34 | 11.15 | 13.583 | 17.140 | 13.032 | 16.41 | 43.755 | 24.00 | 23.25 | PASS |
| 14 | 5600 | 11.64 | 11.34 | 11.53 | 14.588 | 13.614 | 14.223 | 16.28 | 42.425 | 24.00 | 23.25 | PASS |
| 19 | 5700 | 12.07 | 11.15 | 11.37 | 16.106 | 13.032 | 13.709 | 16.32 | 42.847 | 24.00 | 23.58 | PASS |

NOTE: The 26dBc Occupied Bandwidth plot, please refer to the following pages.

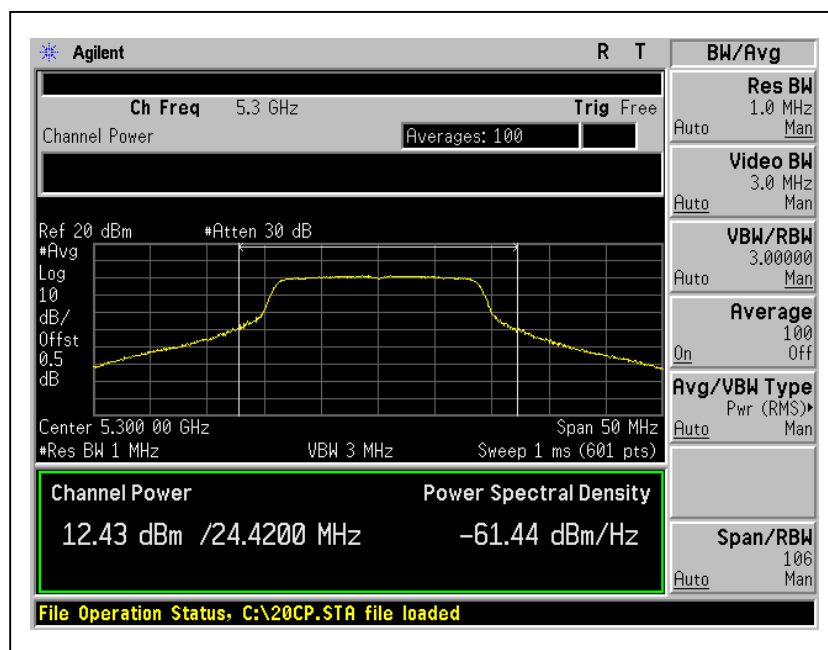


A D T

Peak Power Output: For Chain (0) :CH5



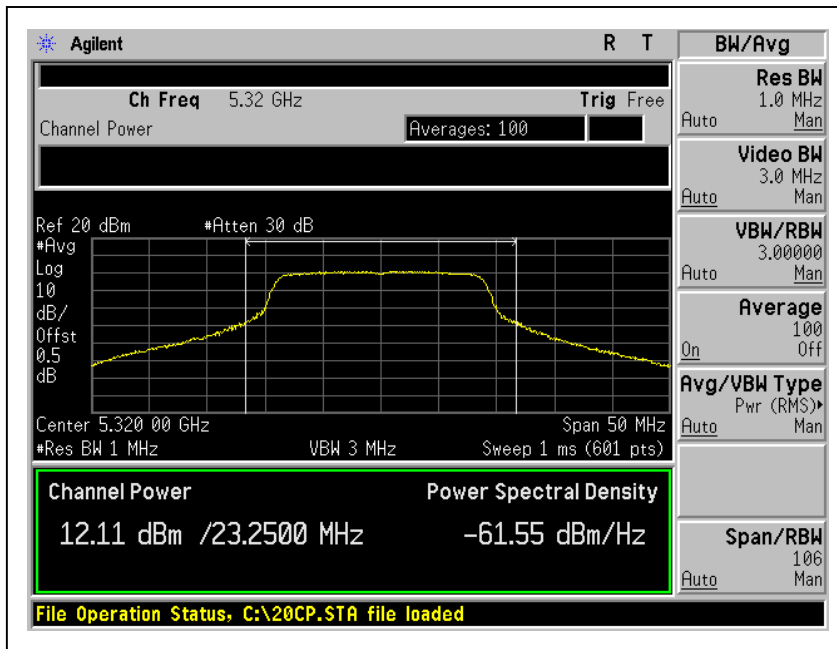
CH7



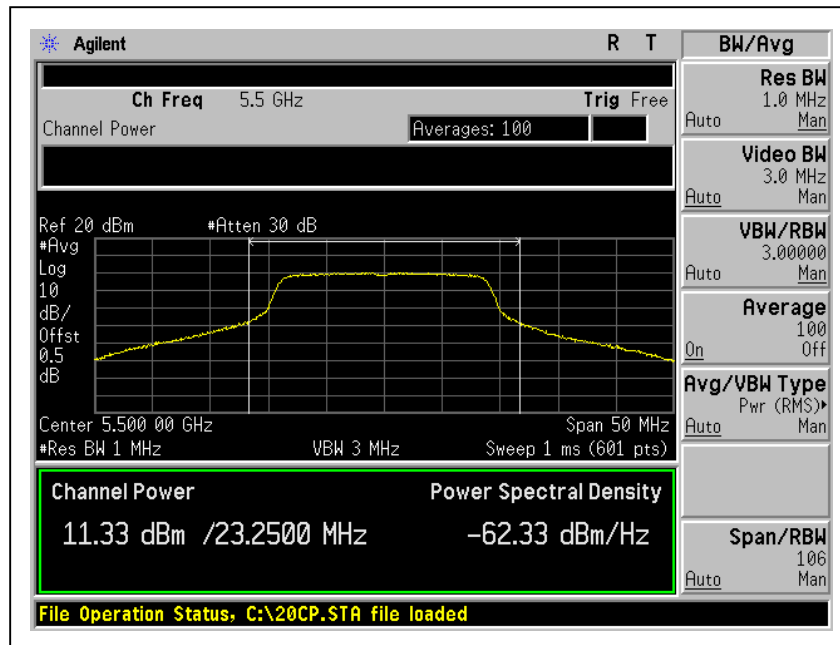


A D T

CH8



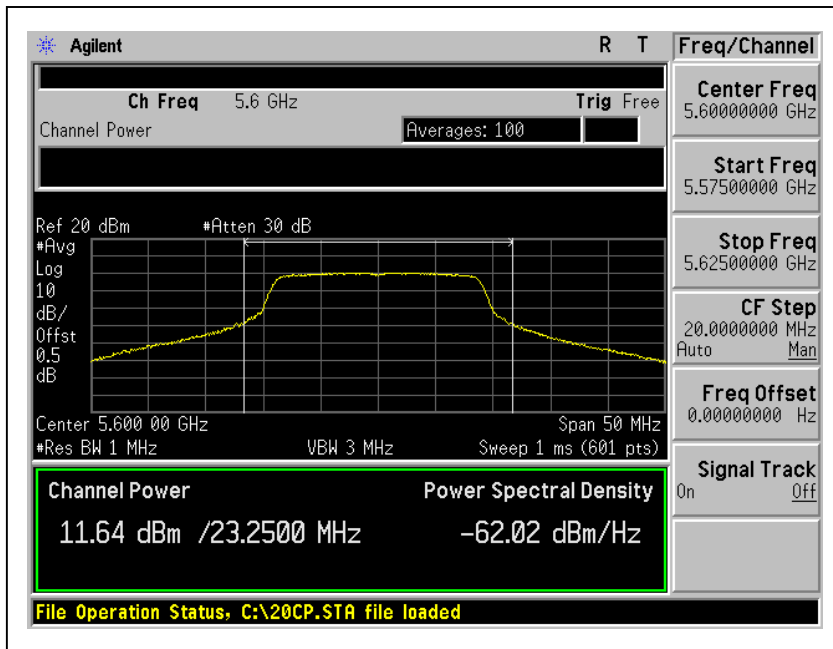
CH9



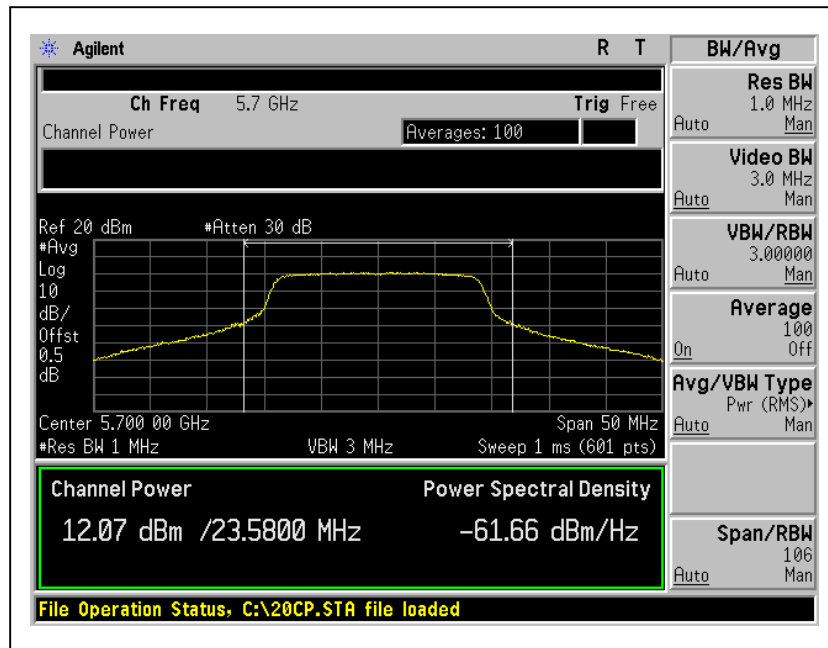


A D T

CH14



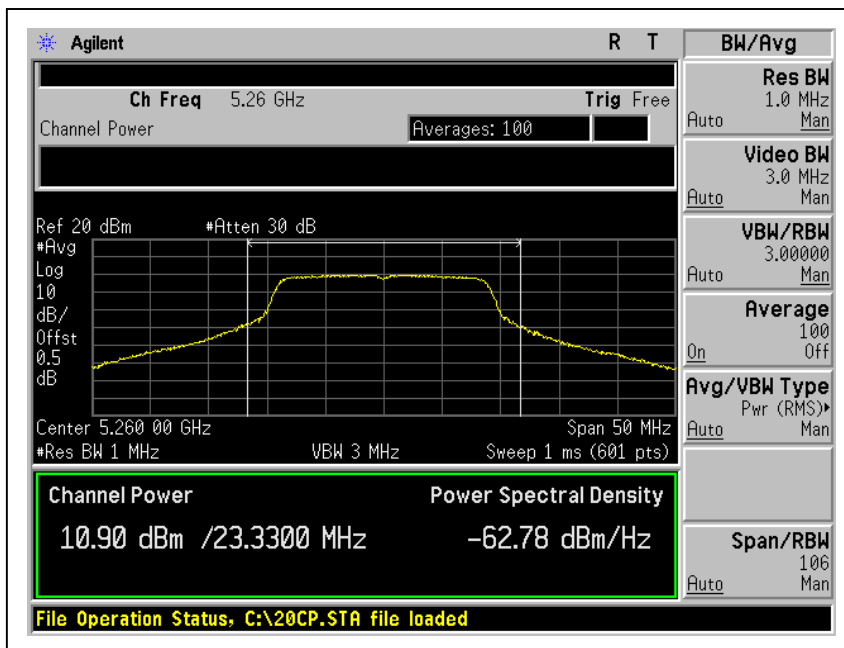
CH19



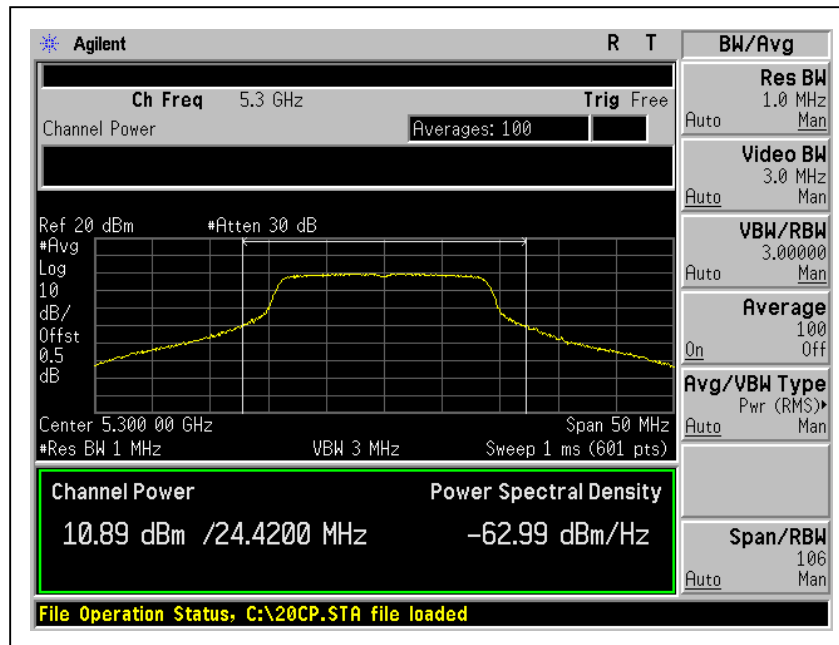


A D T

For Chain (1) :CH5



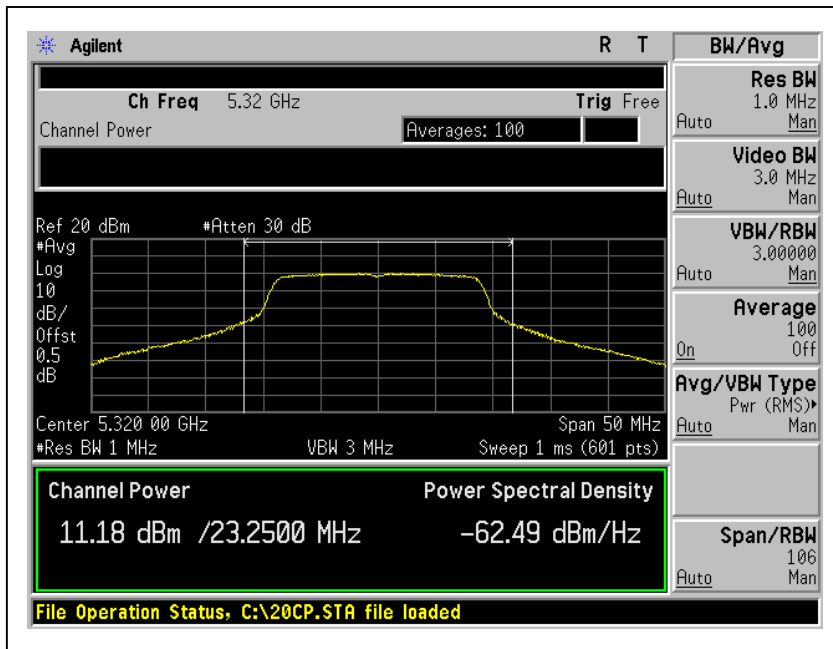
CH7



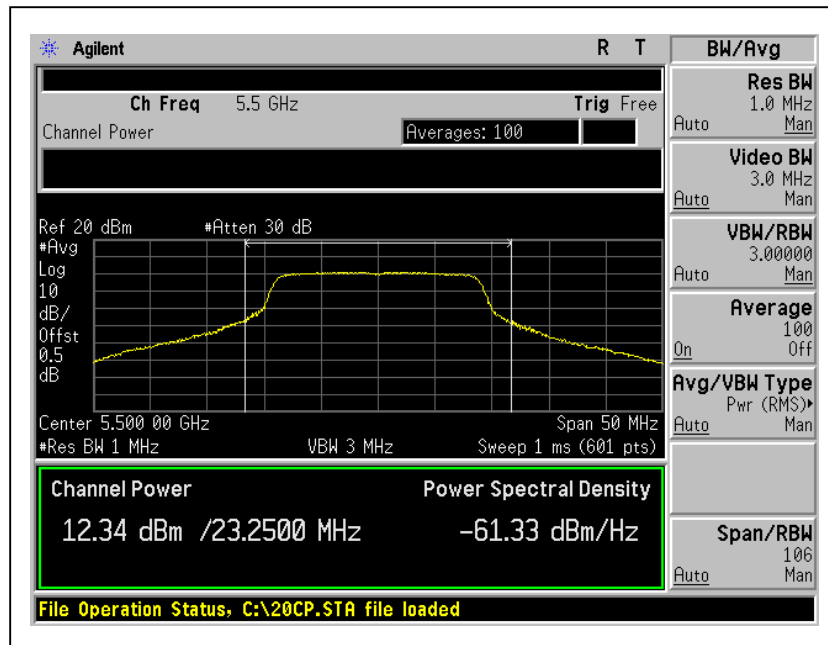


A D T

CH8



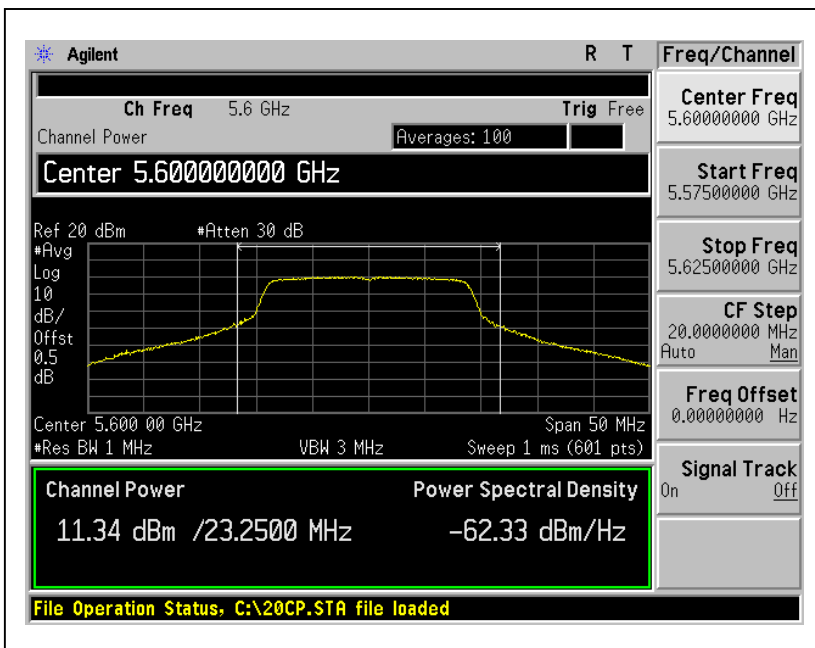
CH9



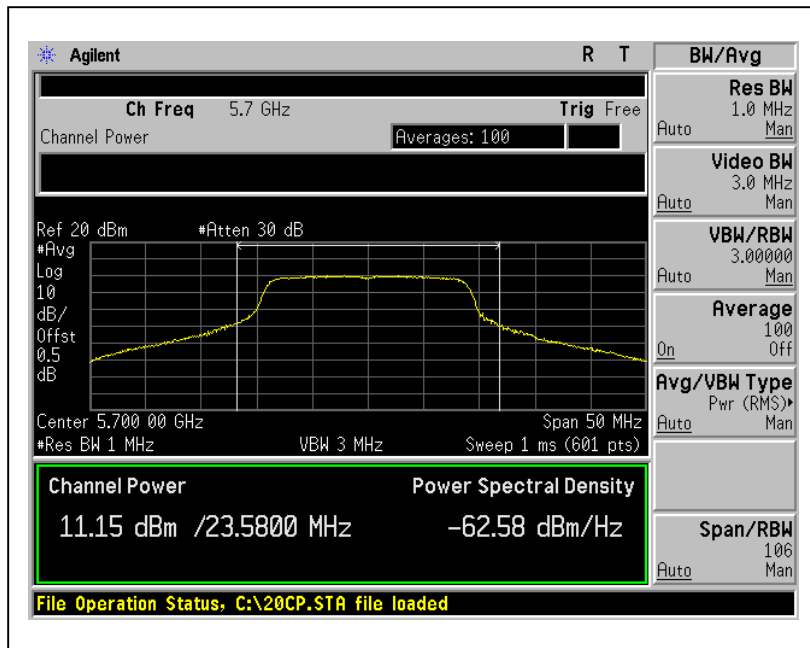


A D T

CH14



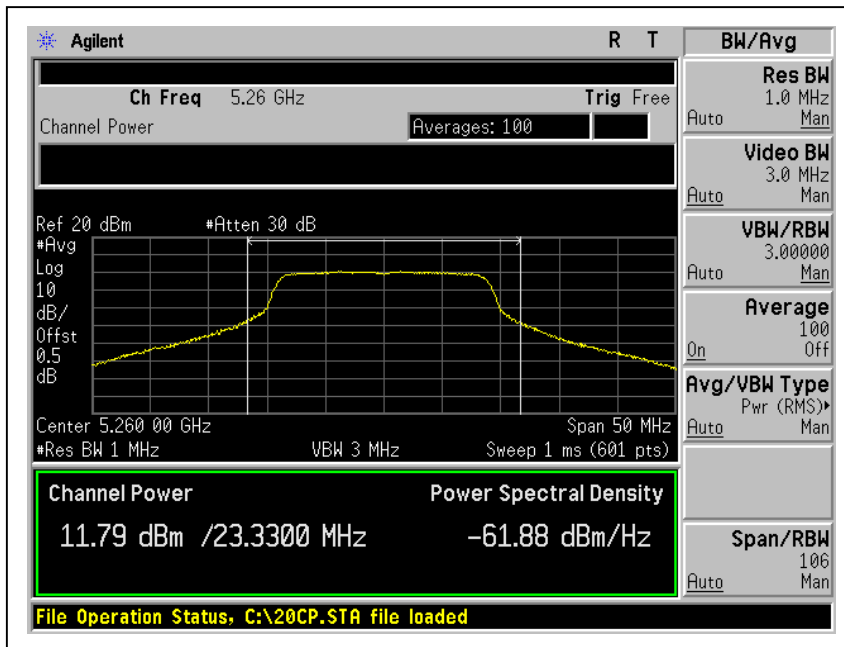
CH19



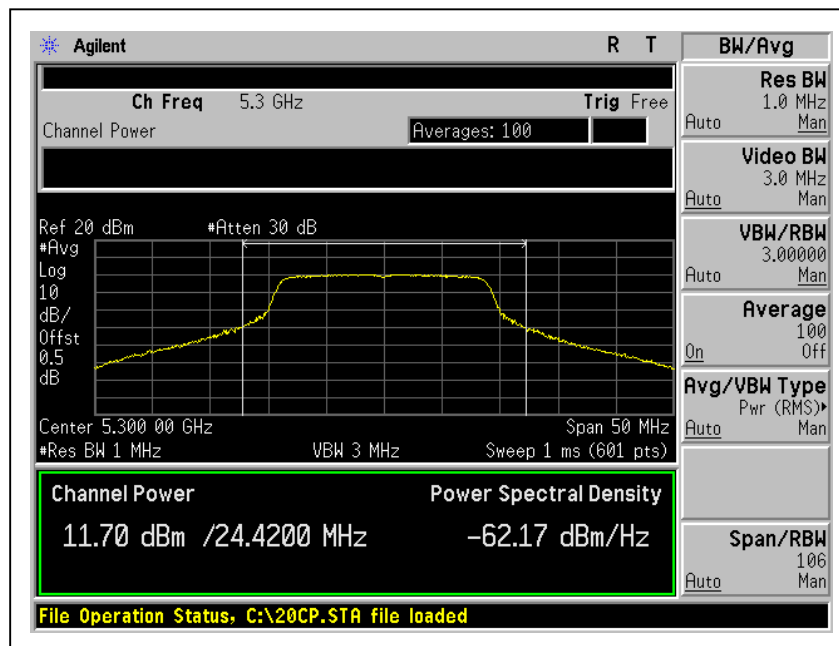


A D T

For Chain (2) :CH5



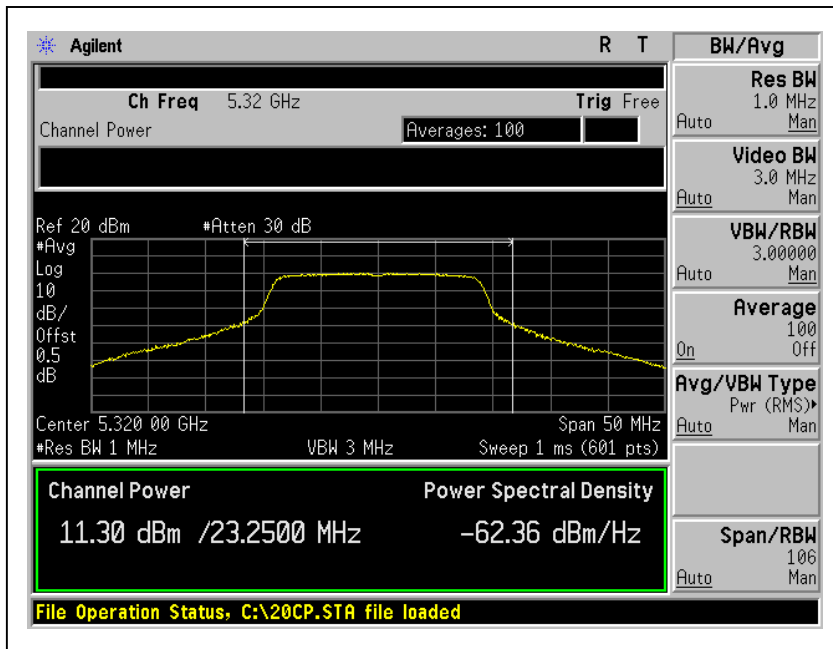
CH7



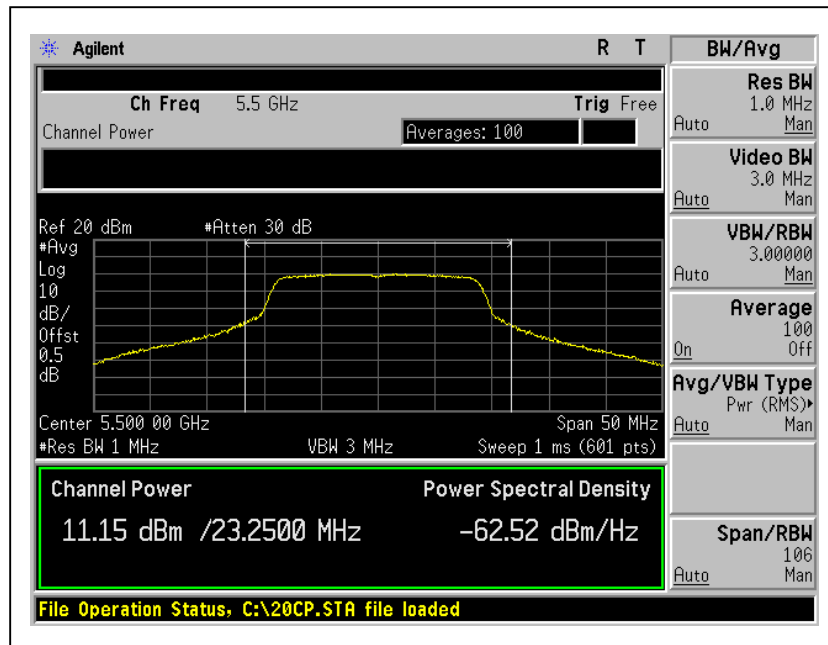


A D T

CH8



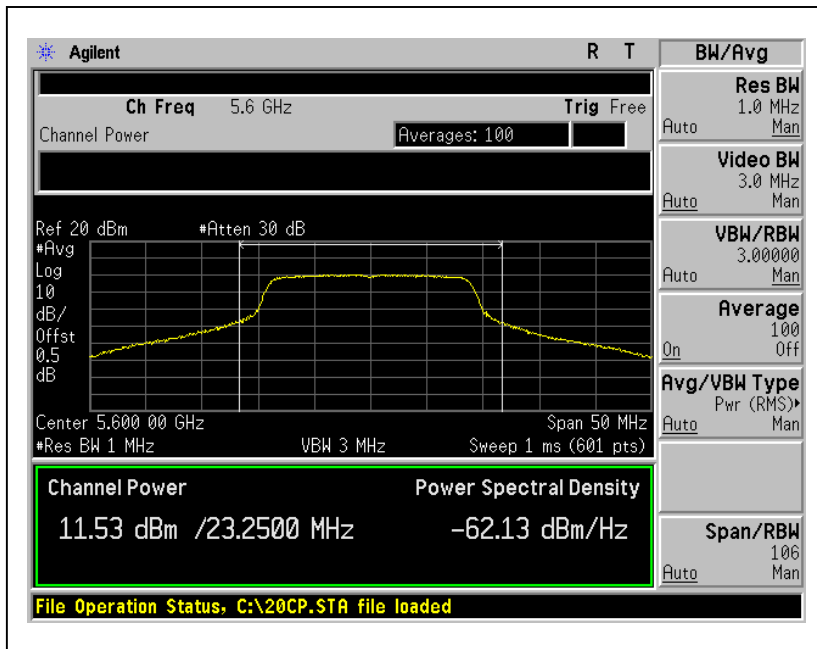
CH9



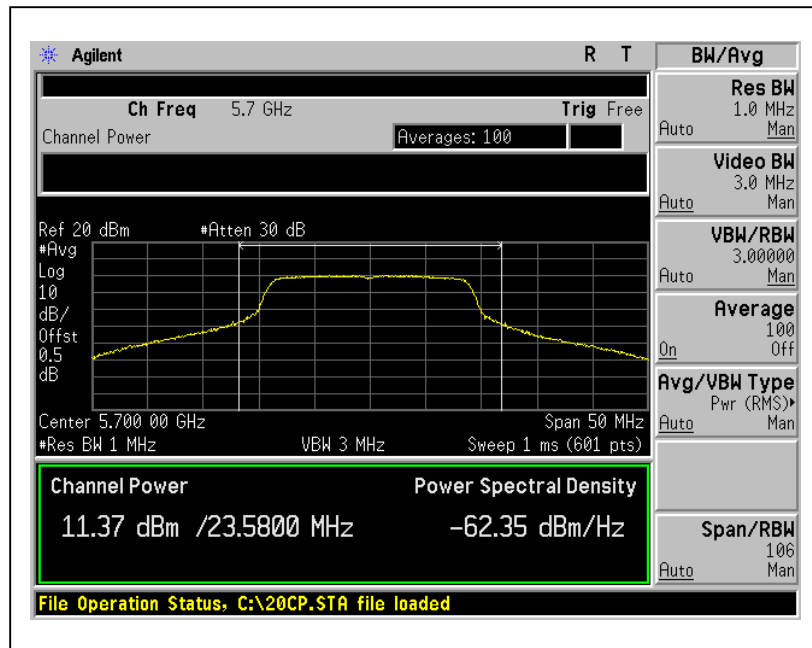


A D T

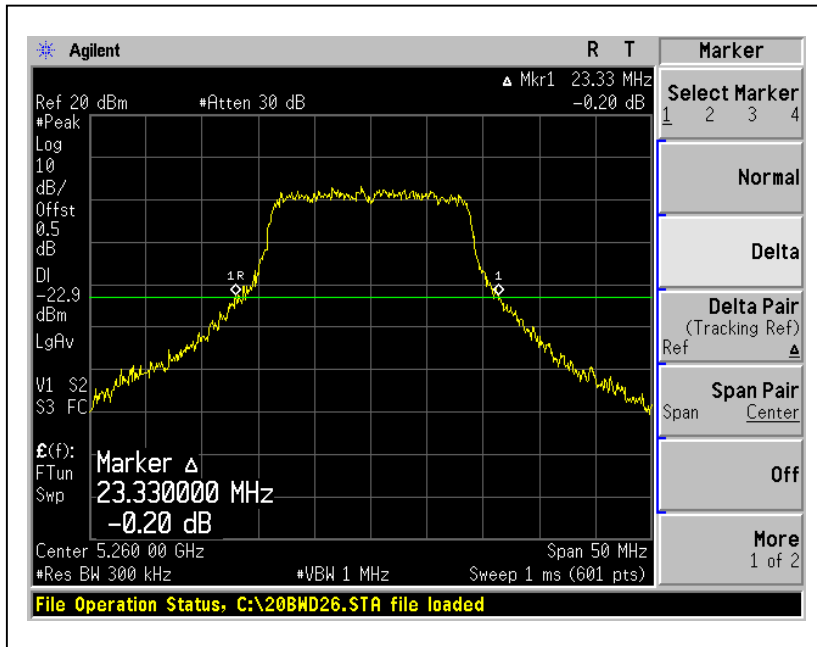
CH14



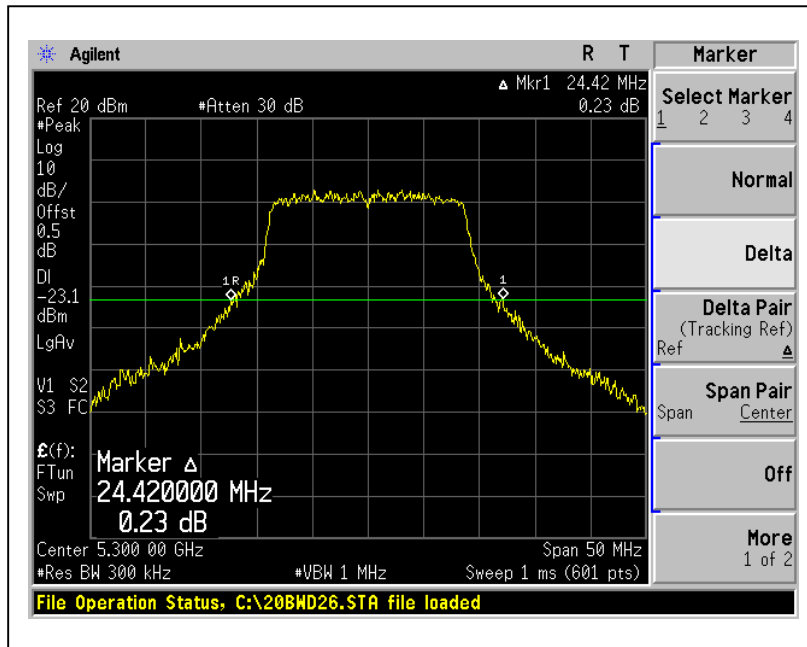
CH19



26dB Occupied Bandwidth:
CH5



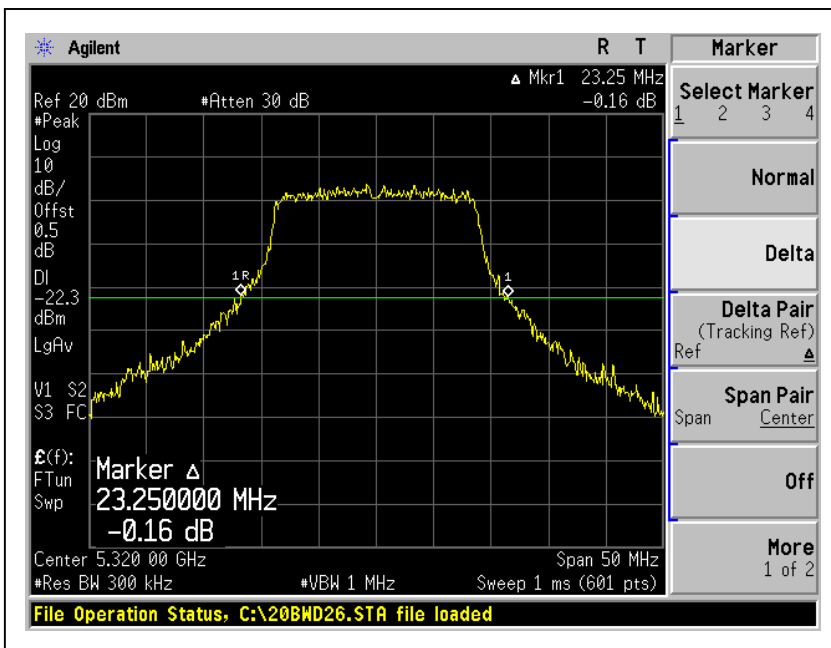
CH7



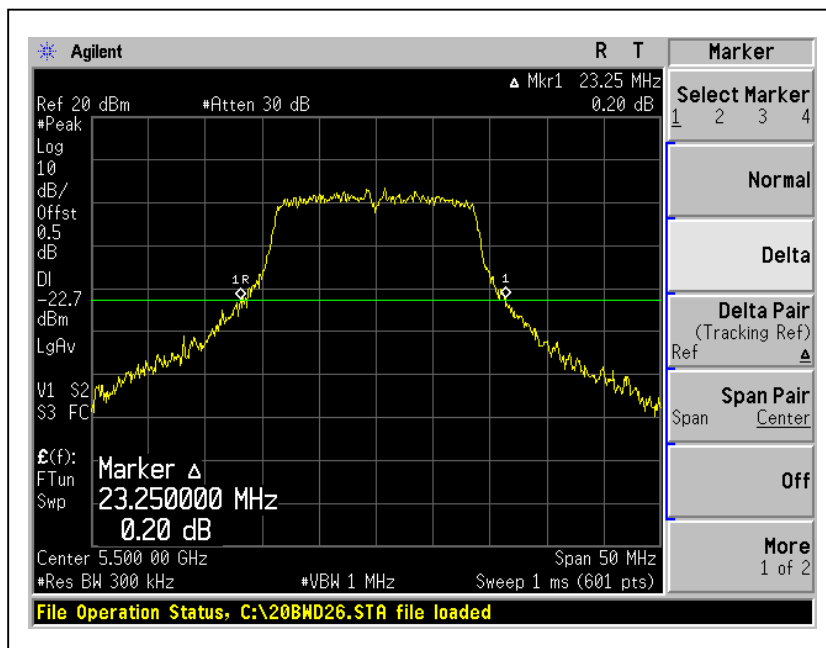


A D T

CH8



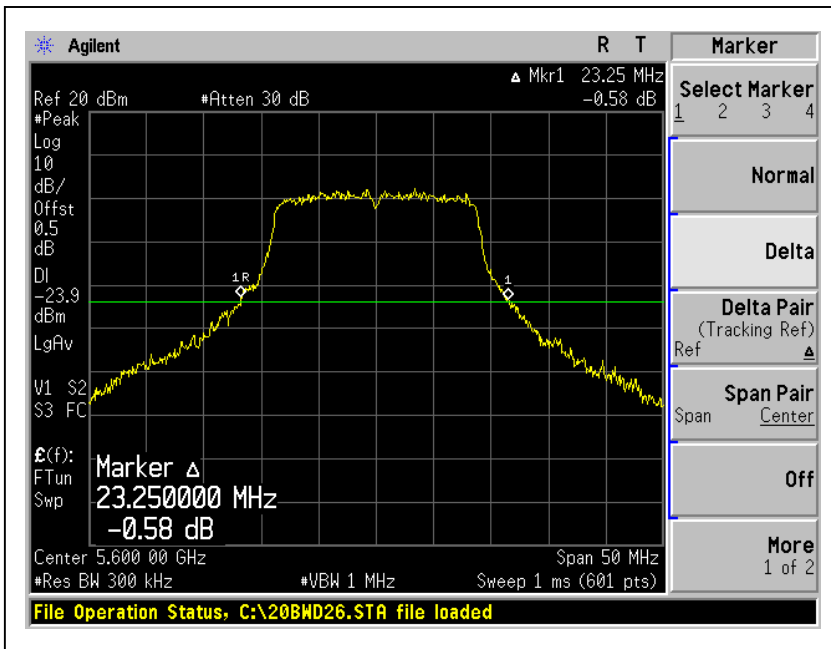
CH9



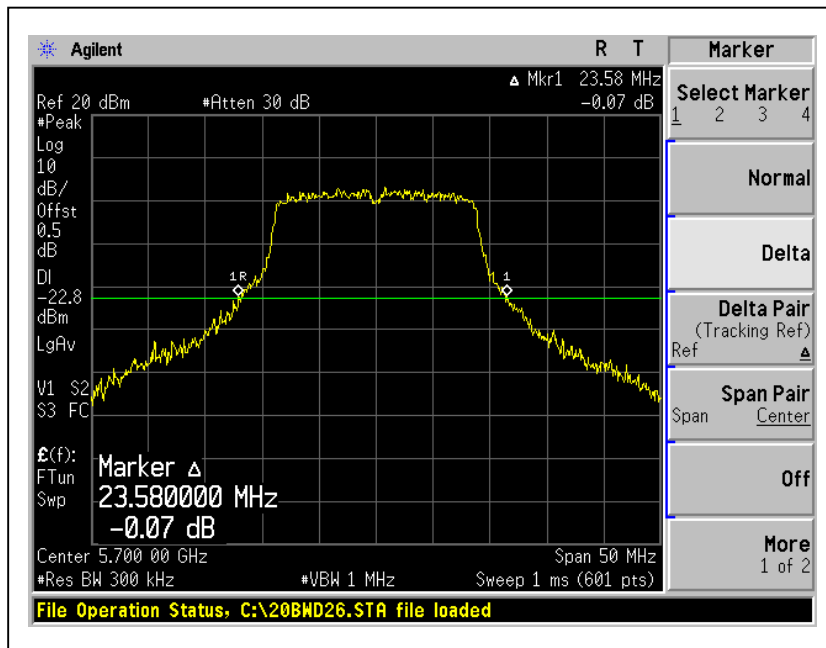


A D T

CH14



CH19





A D T

DRAFT 802.11n (40MHz) OFDM MODULATION:

| | | | |
|------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 13.5Mbps |
| INPUT POWER | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 26deg.C, 63%RH, 965hPa |
| TESTED BY | Wen Yu | | |

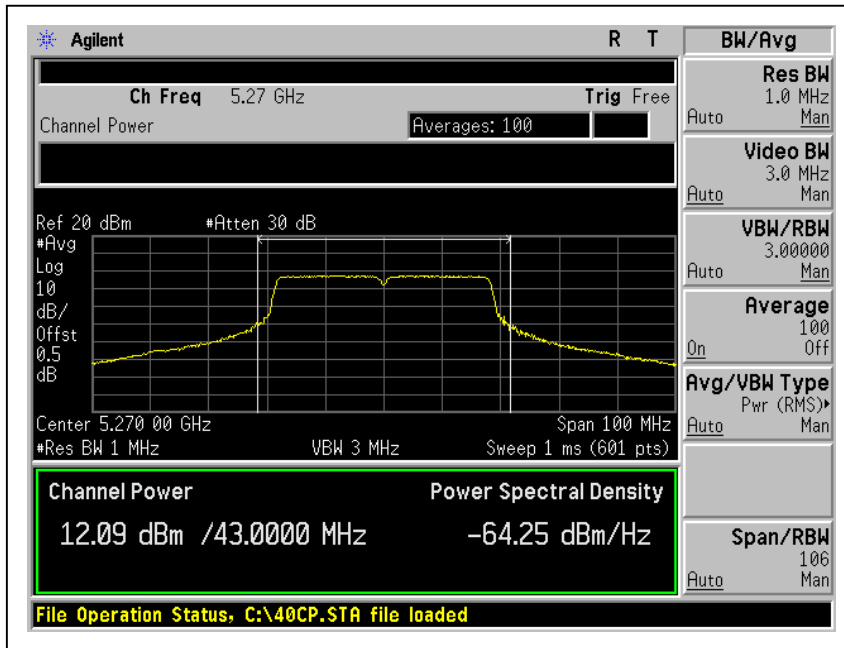
| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER OUTPUT (dBm) | | | PEAK POWER OUTPUT (mW) | | | TOTAL PEAK POWER (dBm) | TOTAL PEAK POWER (mW) | PEAK POWER LIMIT (dBm) | 26dBc Occupied Bandwidth (MHz) | PASS/ FAIL |
|---------|-------------------------|-------------------------|---------|---------|------------------------|---------|---------|------------------------|-----------------------|------------------------|--------------------------------|------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 0 | Chain 1 | Chain 2 | | | | | |
| 3 | 5270 | 12.09 | 10.94 | 11.07 | 16.181 | 12.417 | 12.794 | 16.17 | 41.392 | 24.00 | 43.00 | PASS |
| 4 | 5310 | 11.97 | 11.17 | 11.11 | 15.740 | 13.092 | 12.912 | 16.21 | 41.744 | 24.00 | 44.50 | PASS |
| 5 | 5510 | 8.74 | 8.96 | 9.77 | 7.482 | 7.870 | 9.484 | 13.95 | 24.836 | 24.00 | 43.67 | PASS |
| 7 | 5590 | 11.12 | 11.78 | 11.22 | 12.942 | 15.066 | 13.243 | 16.15 | 41.251 | 24.00 | 45.33 | PASS |
| 9 | 5670 | 12.09 | 11.52 | 11.25 | 16.181 | 14.191 | 13.335 | 16.41 | 43.707 | 24.00 | 44.17 | PASS |

NOTE: The 26dBc Occupied Bandwidth plot, please refer to the following pages.

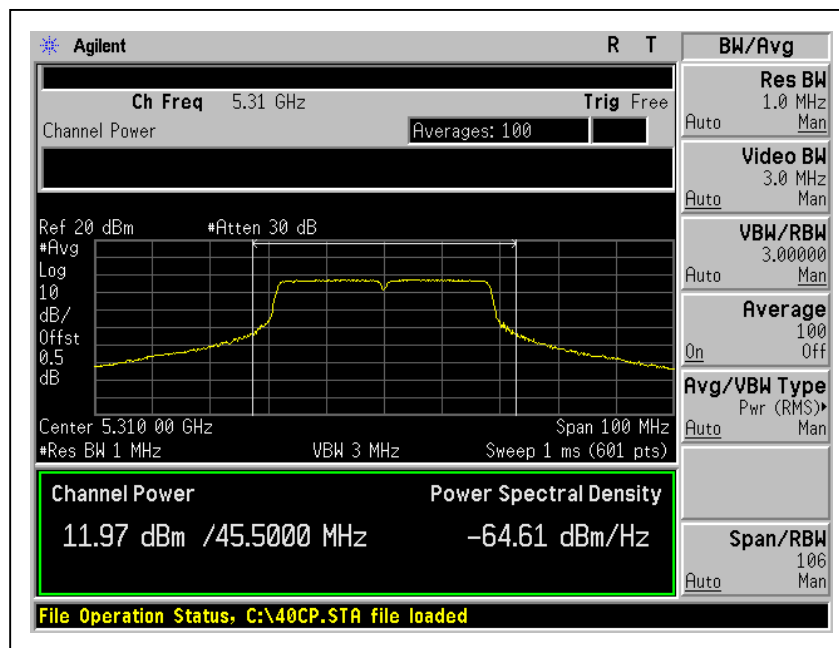


A D T

Peak Power Output: For Chain (0) :CH3



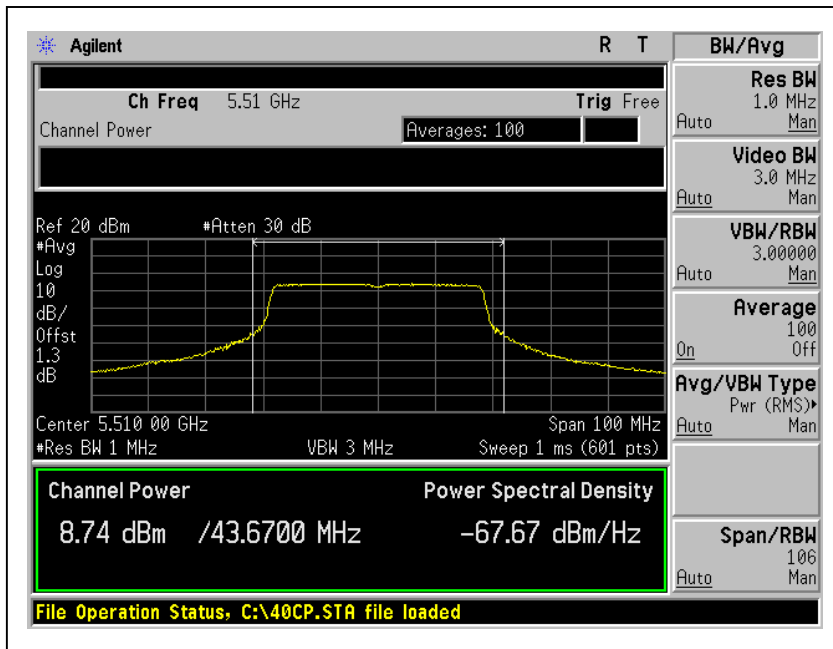
CH4



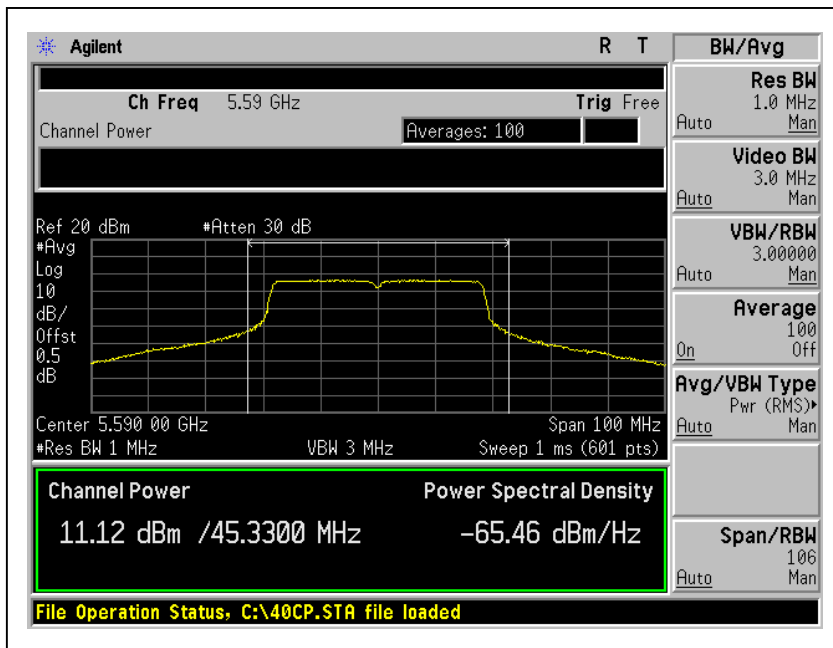


A D T

CH5



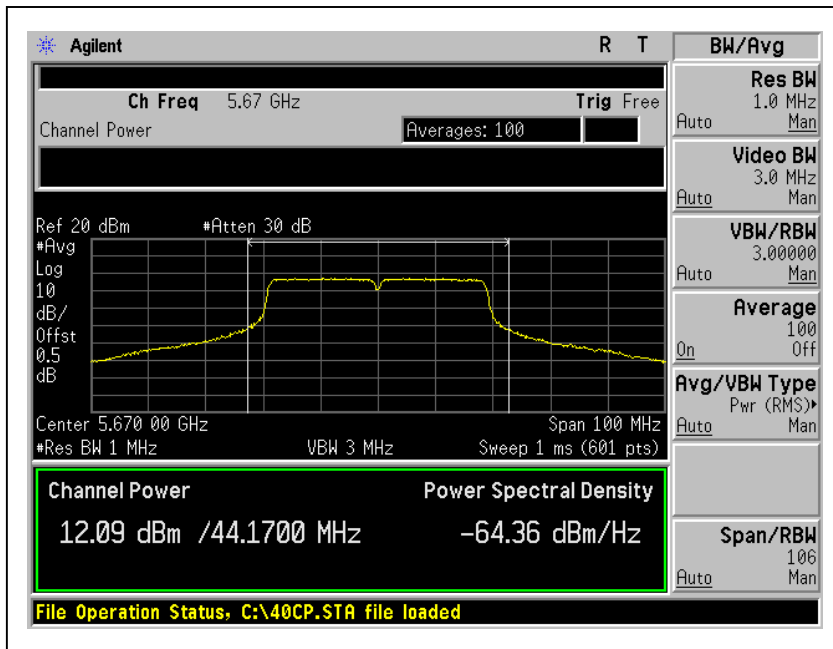
CH7



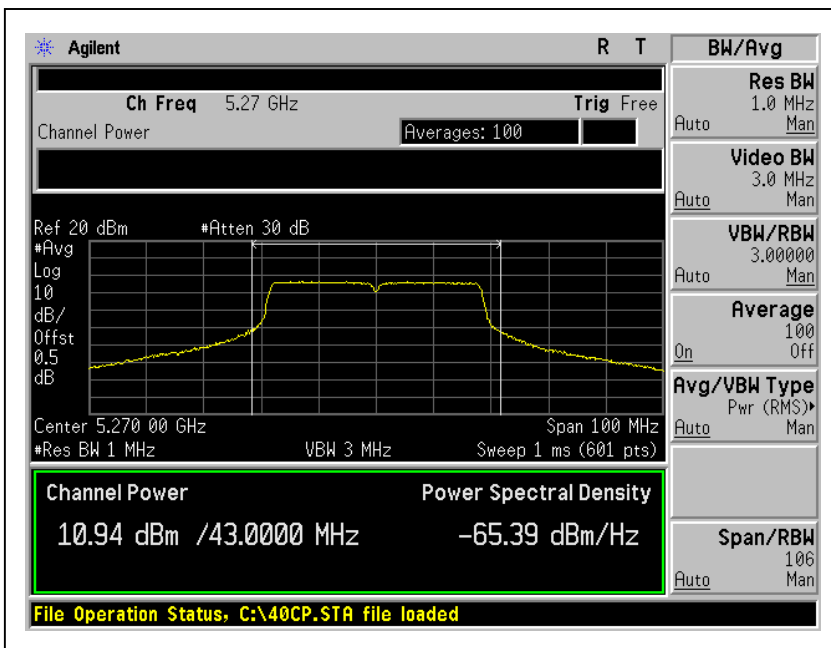


A D T

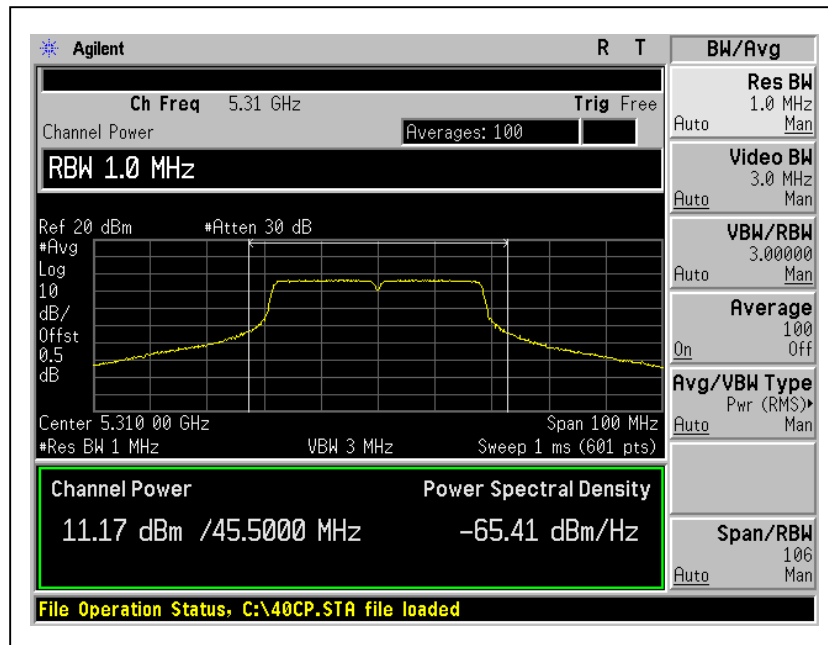
CH8



For Chain (1) :CH3



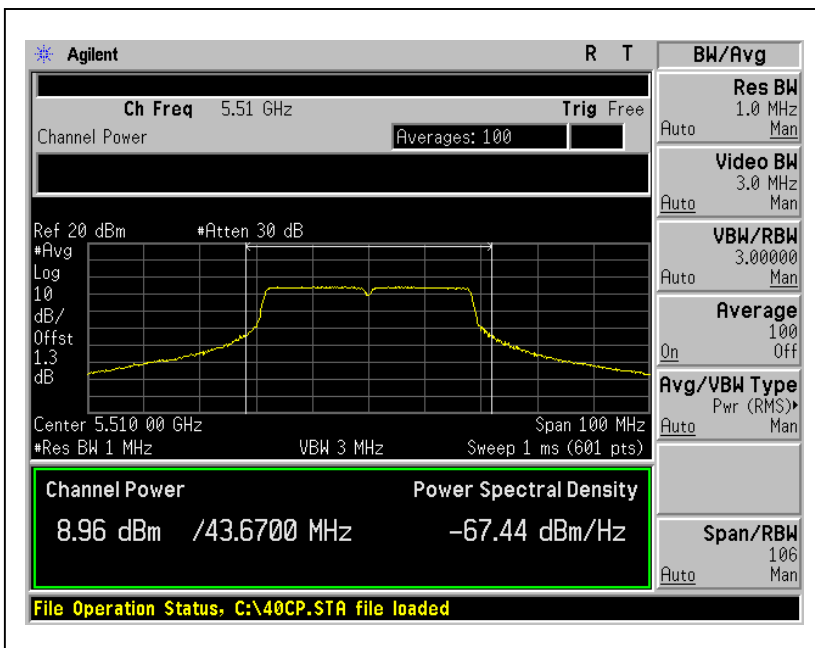
CH4



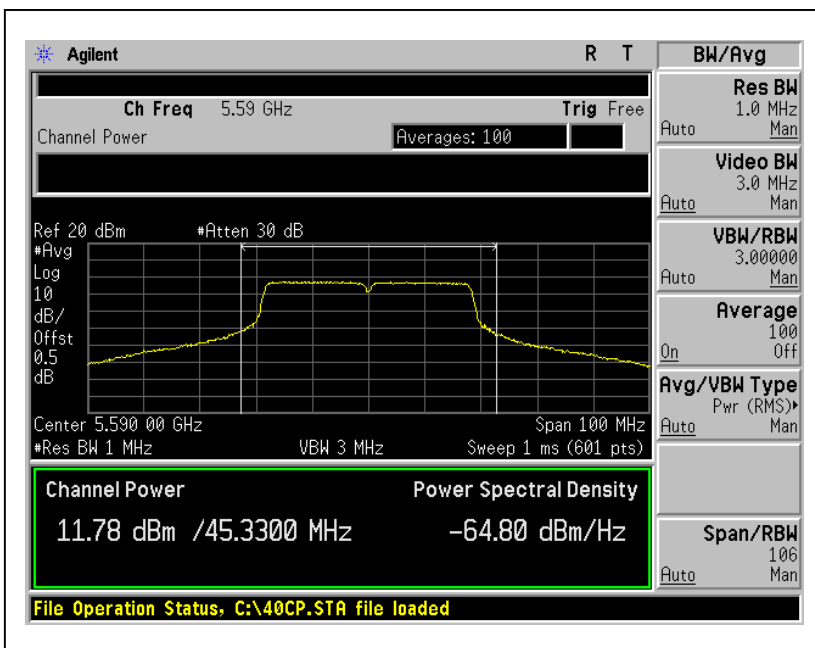


A D T

CH5



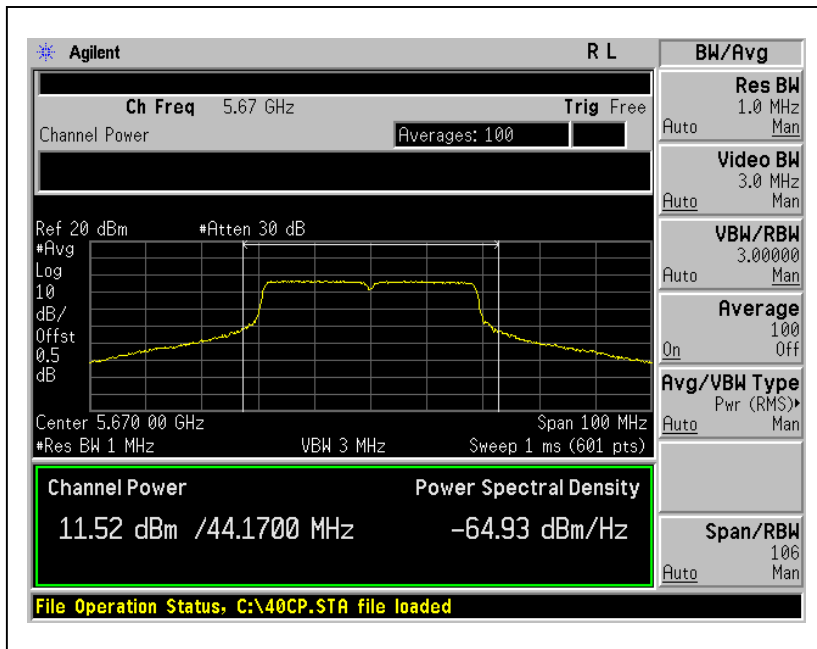
CH7





A D T

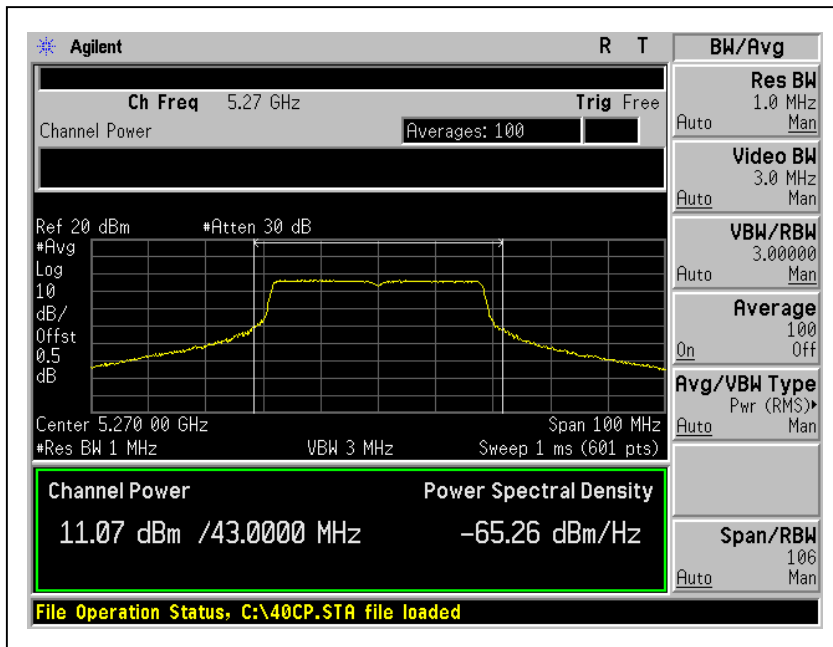
CH8



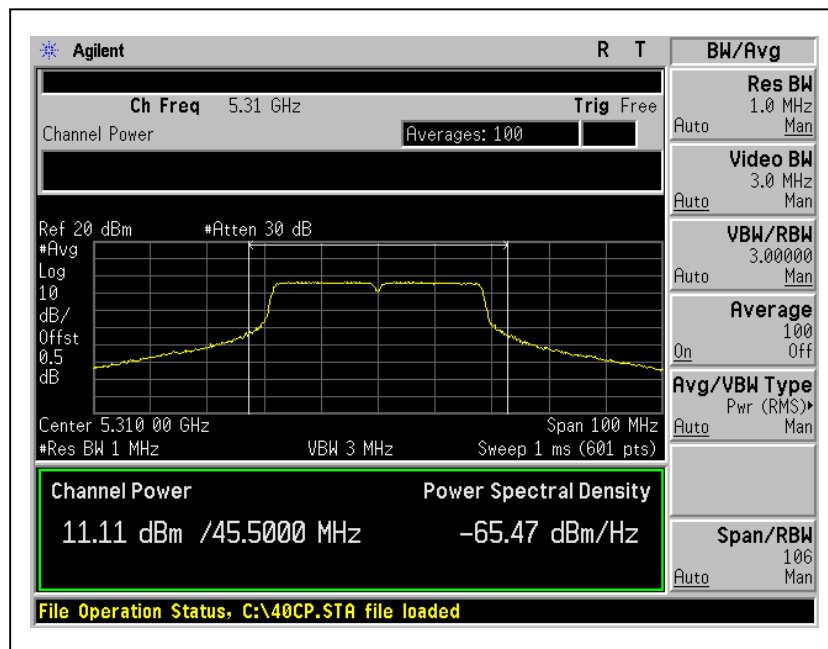


A D T

For Chain (2) :CH3



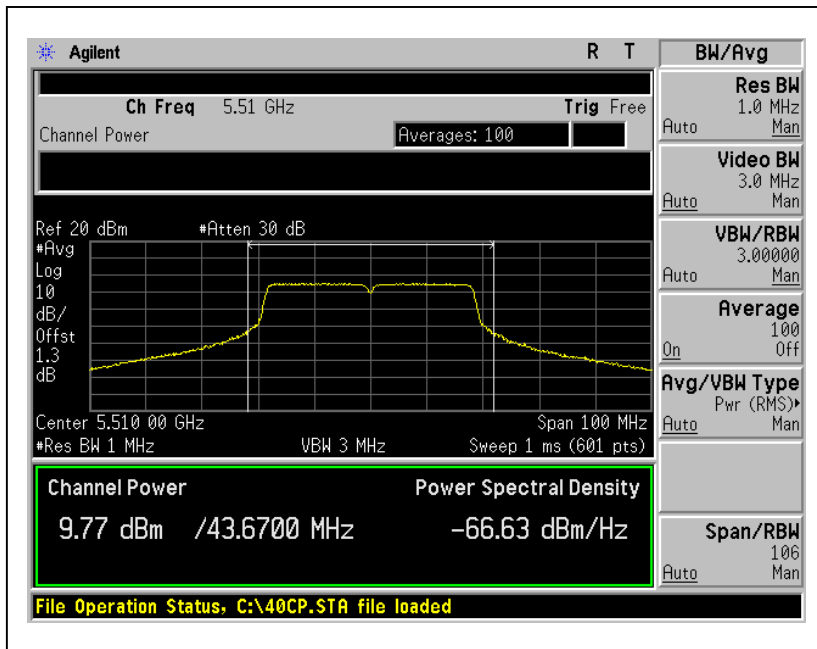
CH4



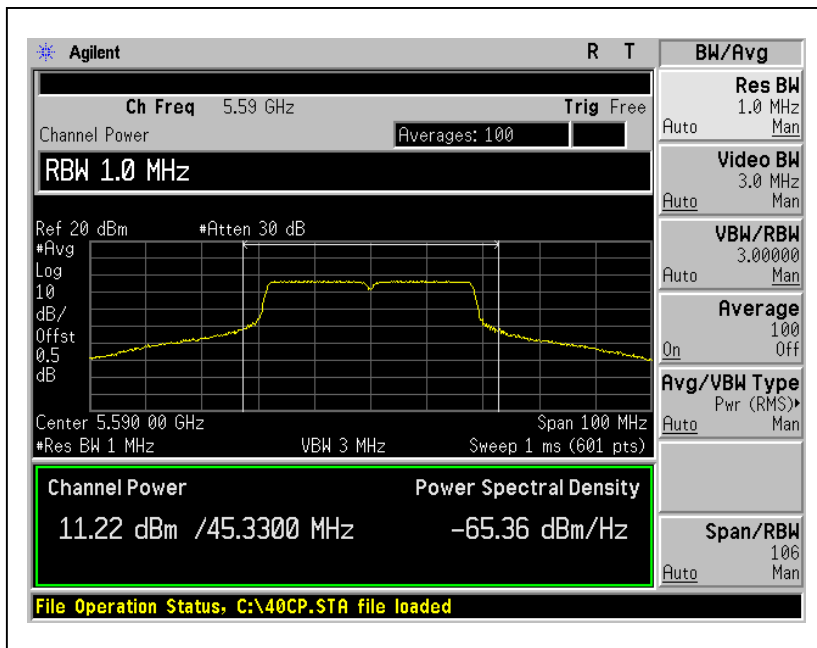


A D T

CH5



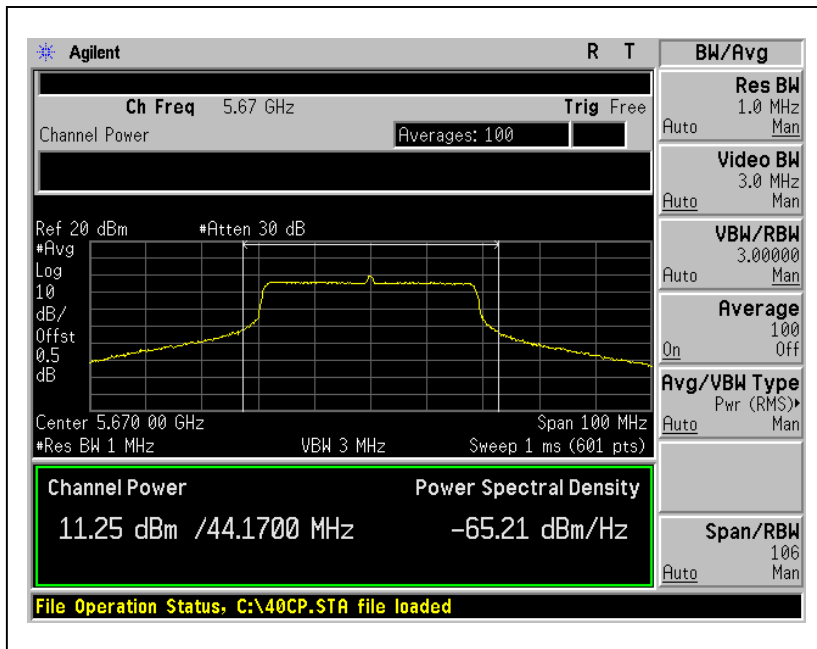
CH7



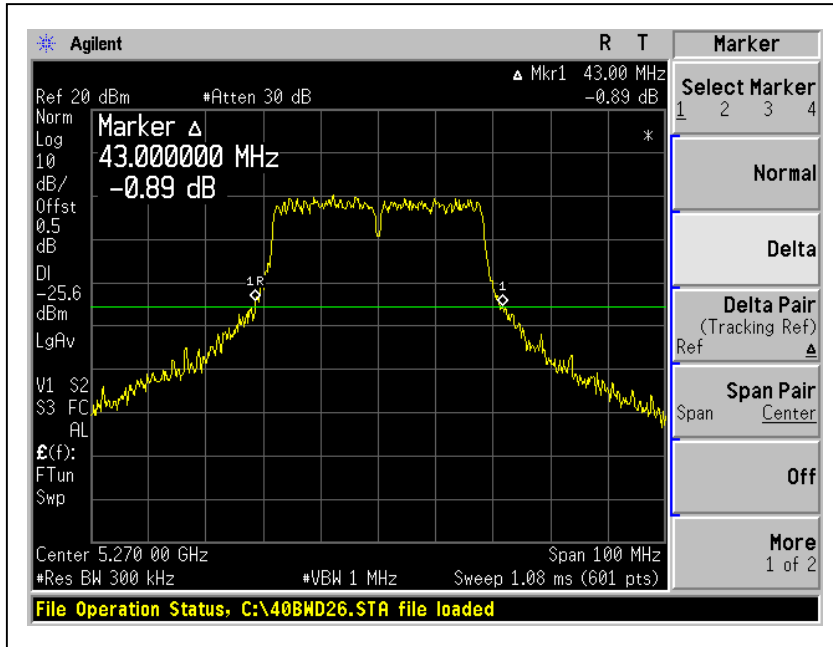


A D T

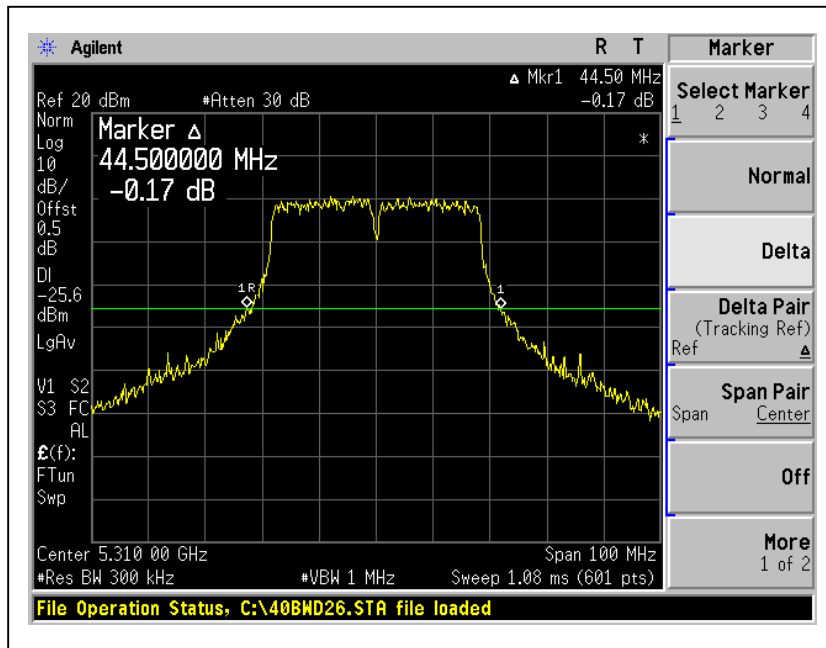
CH8



26dB Occupied Bandwidth: CH3



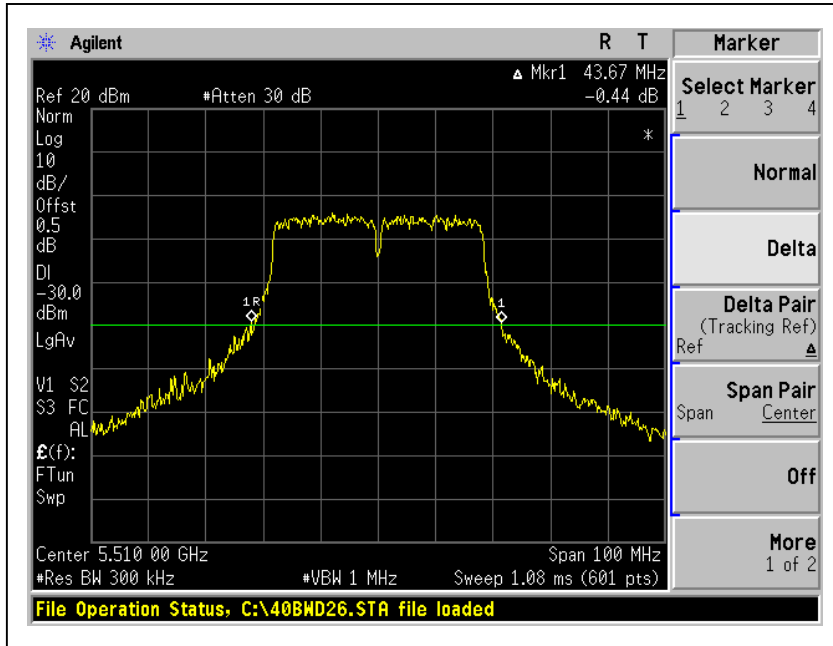
CH4



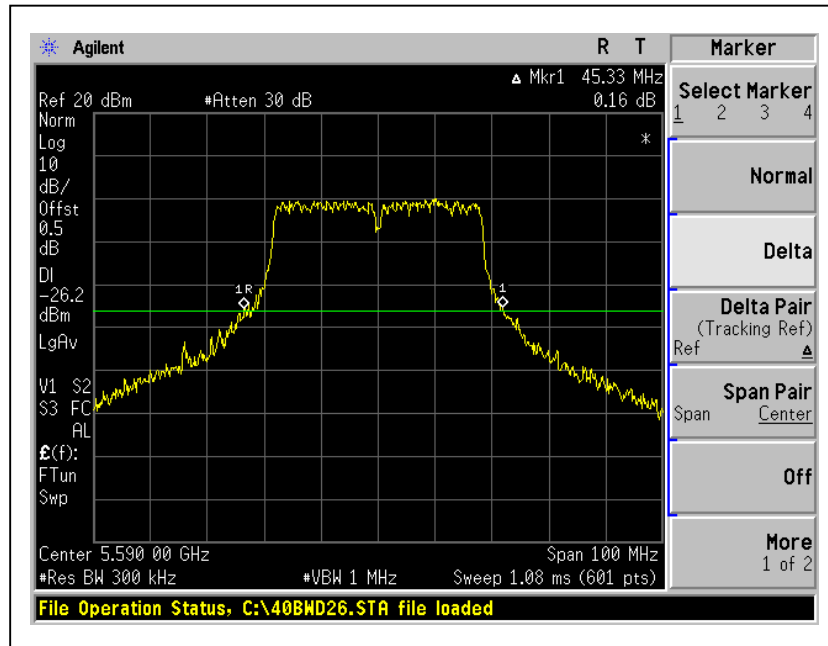


A D T

CH5



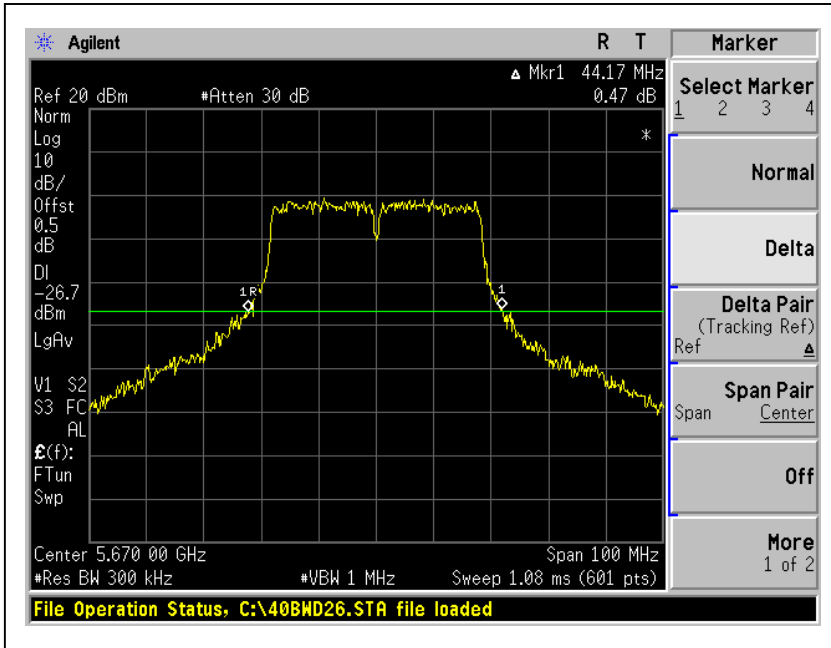
CH7





A D T

CH8





A D T

4.3.11 TEST RESULTS – ANTENNA 11

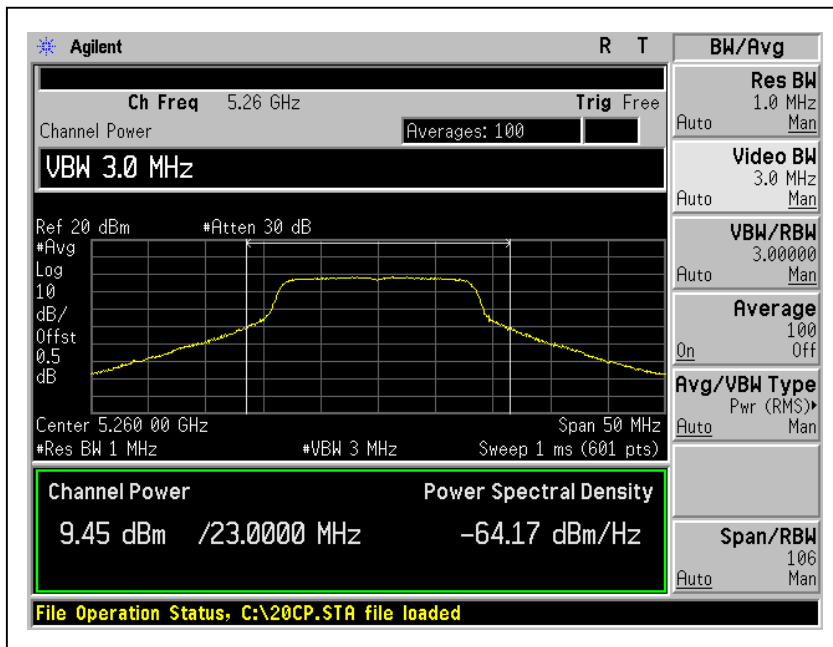
802.11a OFDM MODULATION:

| | | | |
|------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 6Mbps |
| INPUT POWER | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 26deg.C, 63%RH, 965hPa |
| TESTED BY | Wen Yu | | |

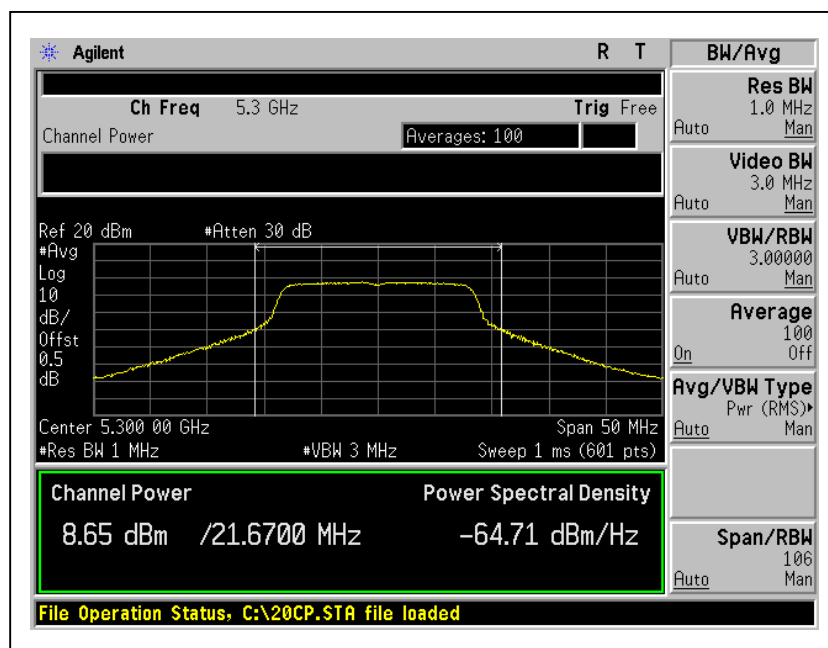
| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER OUTPUT (dBm) | | | PEAK POWER OUTPUT (mW) | | | TOTAL PEAK POWER (dBm) | TOTAL PEAK POWER (mW) | PEAK POWER LIMIT (dBm) | 26dBc Occupied Bandwidth (MHz) | PASS/ FAIL |
|---------|-------------------------|-------------------------|---------|---------|------------------------|---------|---------|------------------------|-----------------------|------------------------|--------------------------------|------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 0 | Chain 1 | Chain 2 | | | | | |
| 5 | 5260 | 9.45 | 7.94 | 9.13 | 8.810 | 6.223 | 8.185 | 13.66 | 23.218 | 15.50 | 23.00 | PASS |
| 7 | 5300 | 8.65 | 7.47 | 8.34 | 7.328 | 5.585 | 6.823 | 12.95 | 19.736 | 15.50 | 21.67 | PASS |
| 8 | 5320 | 8.12 | 7.43 | 8.43 | 6.486 | 5.534 | 6.966 | 12.78 | 18.986 | 15.50 | 22.58 | PASS |
| 9 | 5500 | 7.61 | 7.33 | 8.91 | 5.768 | 5.408 | 7.780 | 12.78 | 18.956 | 15.50 | 21.83 | PASS |
| 14 | 5600 | 8.54 | 8.36 | 8.48 | 7.145 | 6.855 | 7.047 | 13.23 | 21.047 | 15.50 | 22.50 | PASS |
| 19 | 5700 | 9.55 | 8.61 | 7.7 | 9.016 | 7.261 | 5.888 | 13.46 | 22.165 | 15.50 | 22.58 | PASS |

NOTE: 1. The 26dBc Occupied Bandwidth plot, please refer to the following pages.
 2. Power limitation= $24-(14.5-6) = 15.5\text{dBm}$ (For non-point to point application).

Peak Power Output:
For Chain (0) :CH5



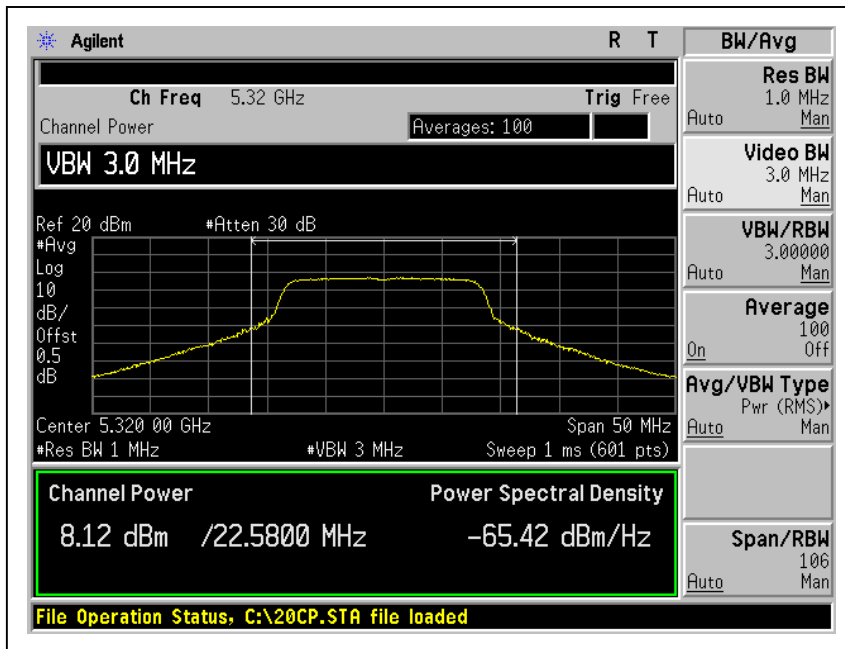
CH7



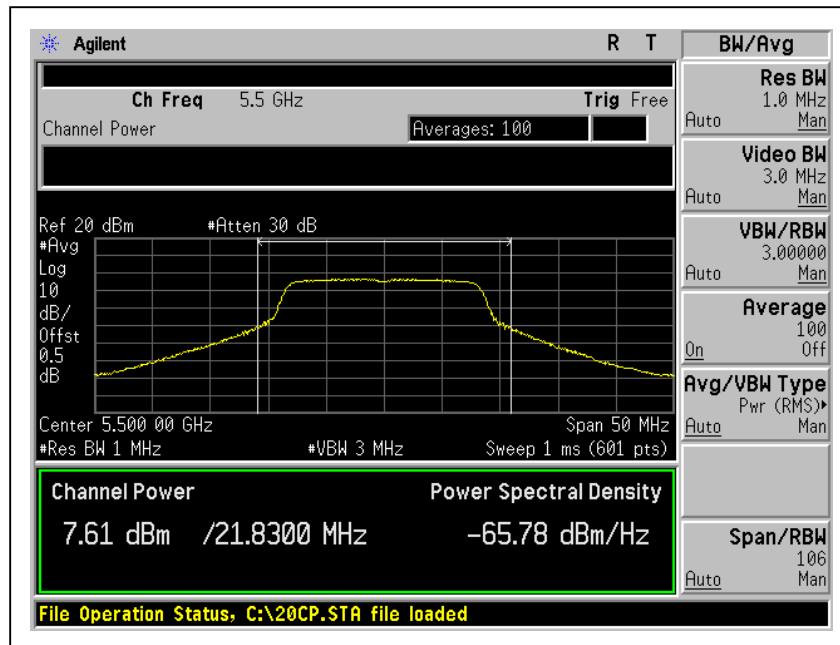


A D T

CH8



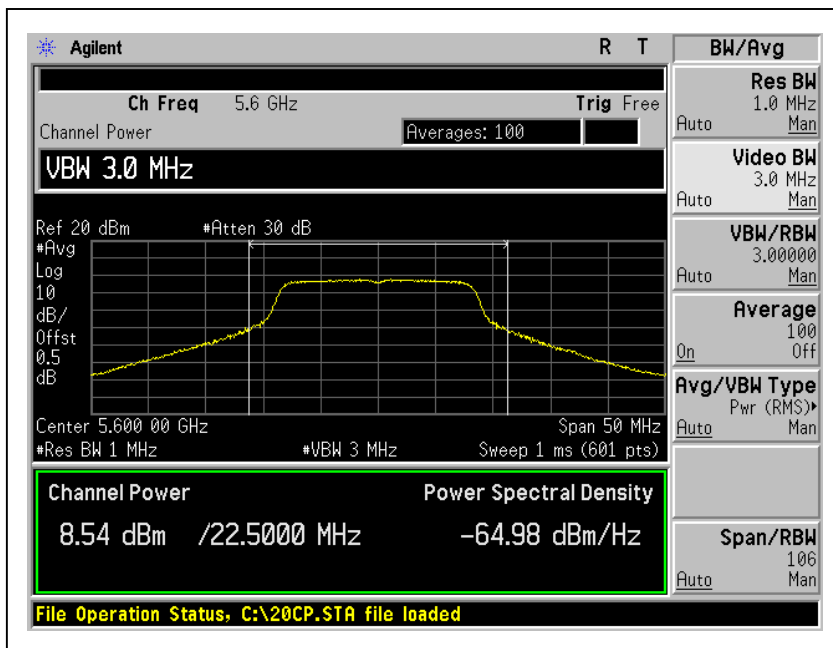
CH9



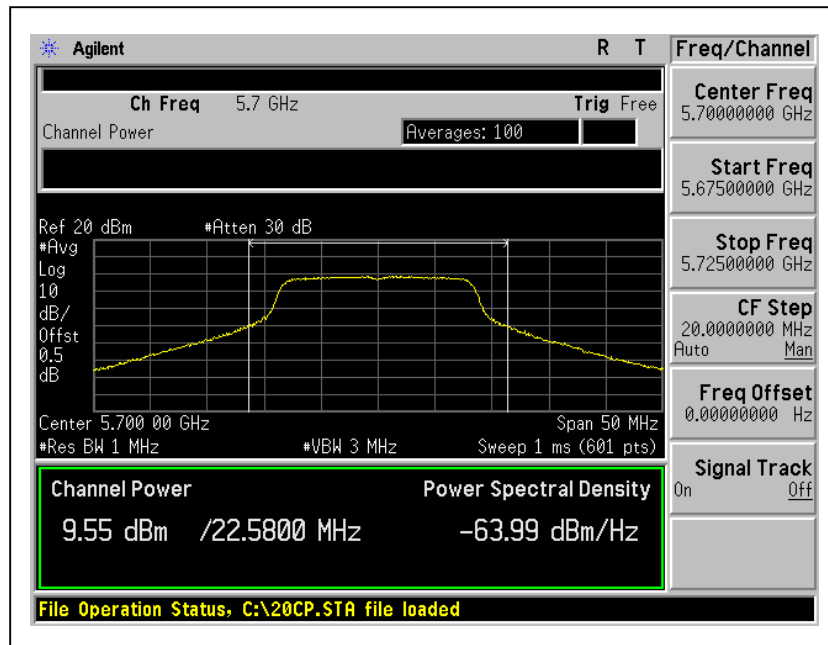


A D T

CH14



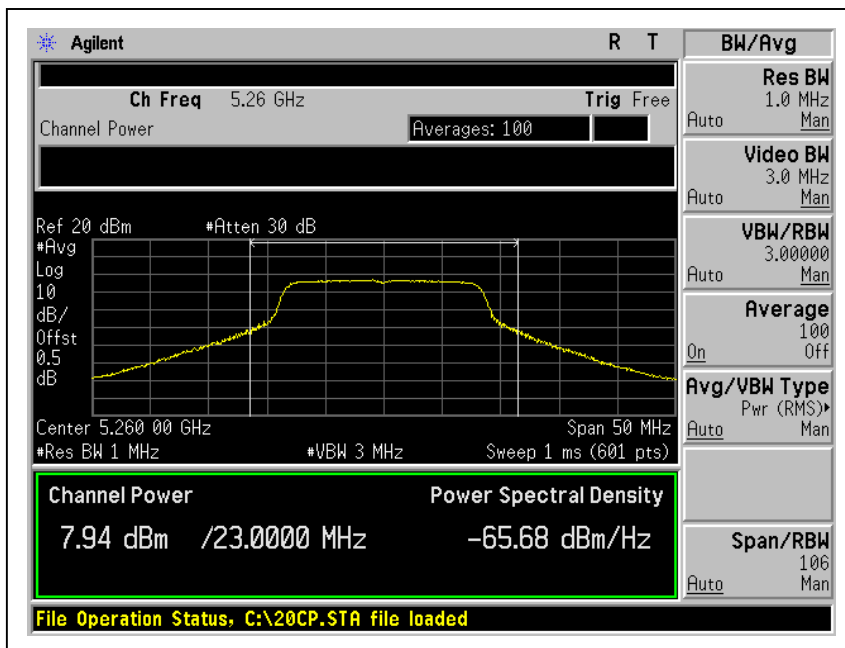
CH19



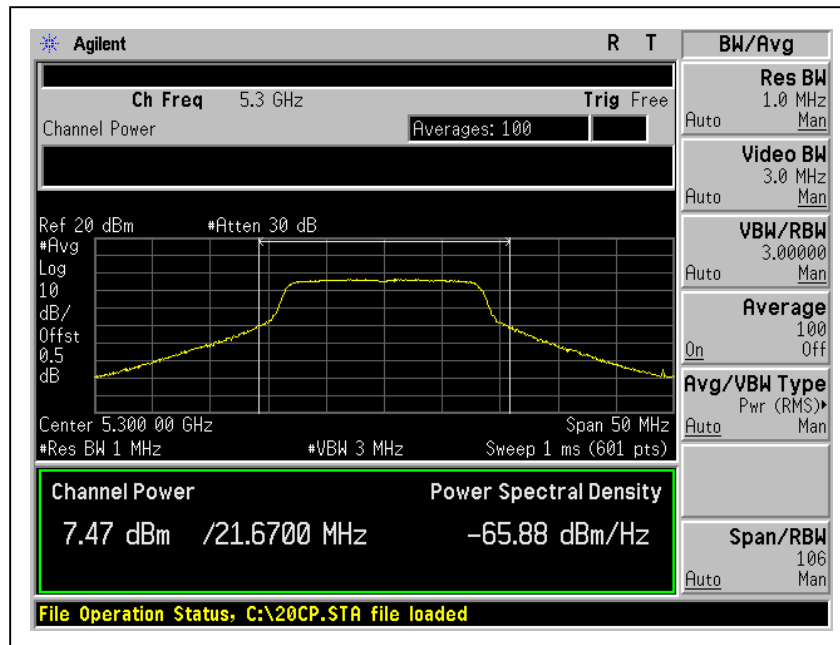


A D T

For Chain (1) :CH5



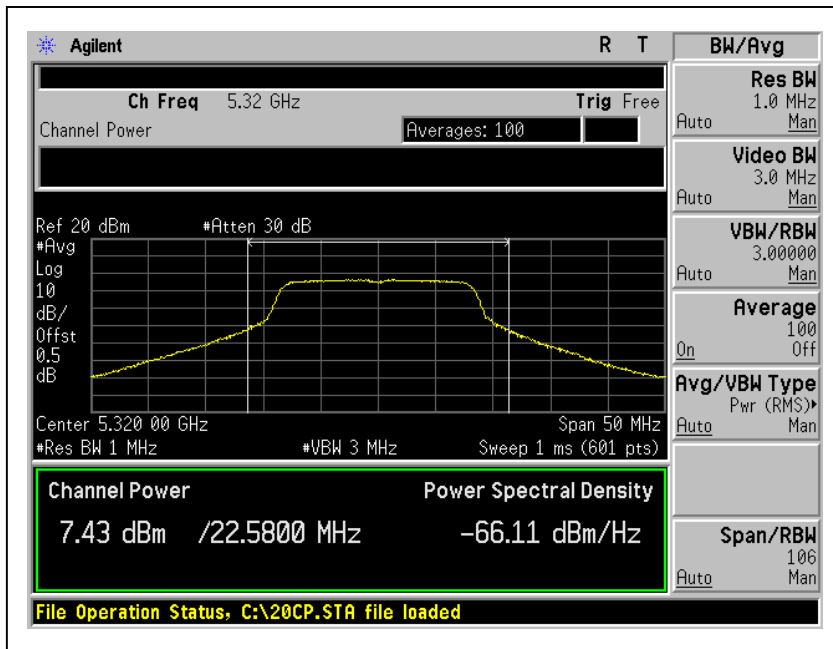
CH7



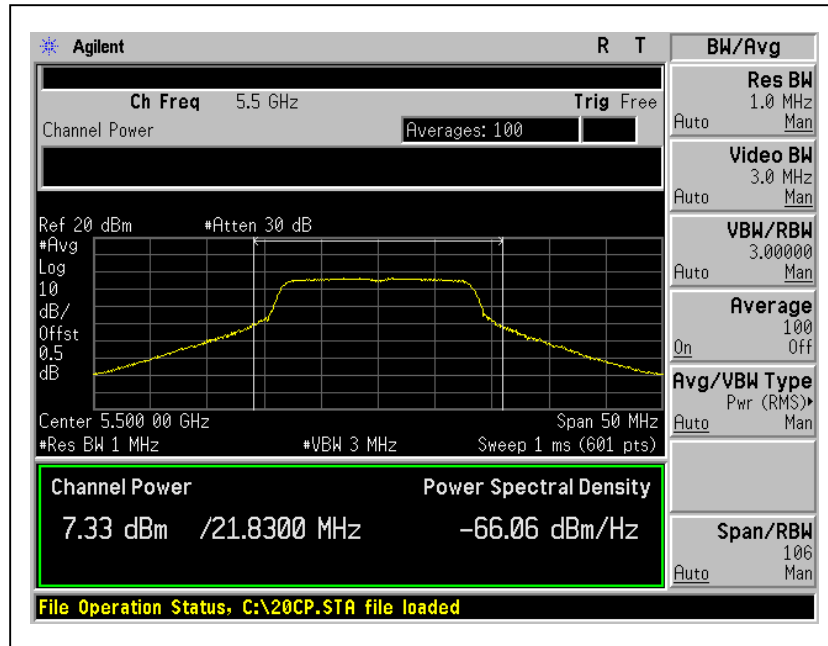


A D T

CH8



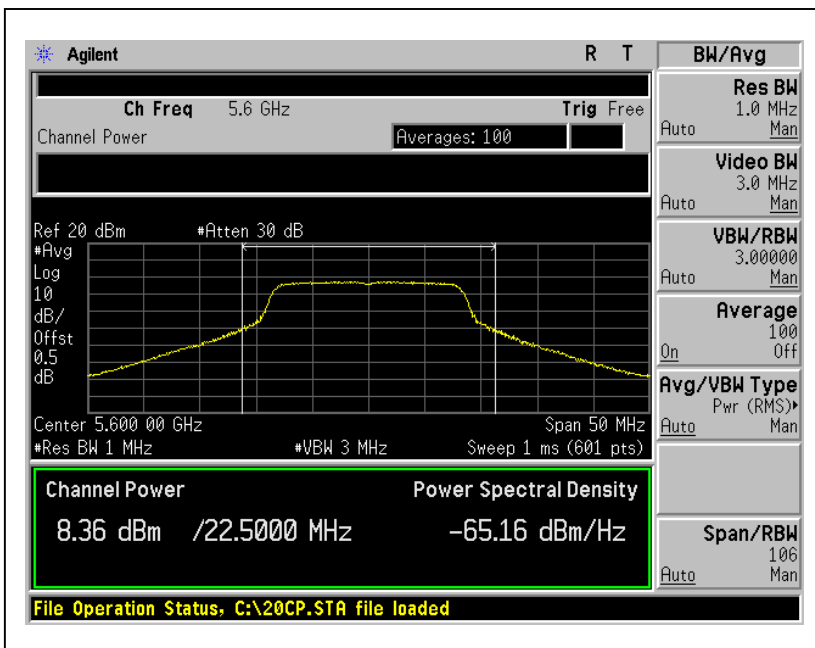
CH9



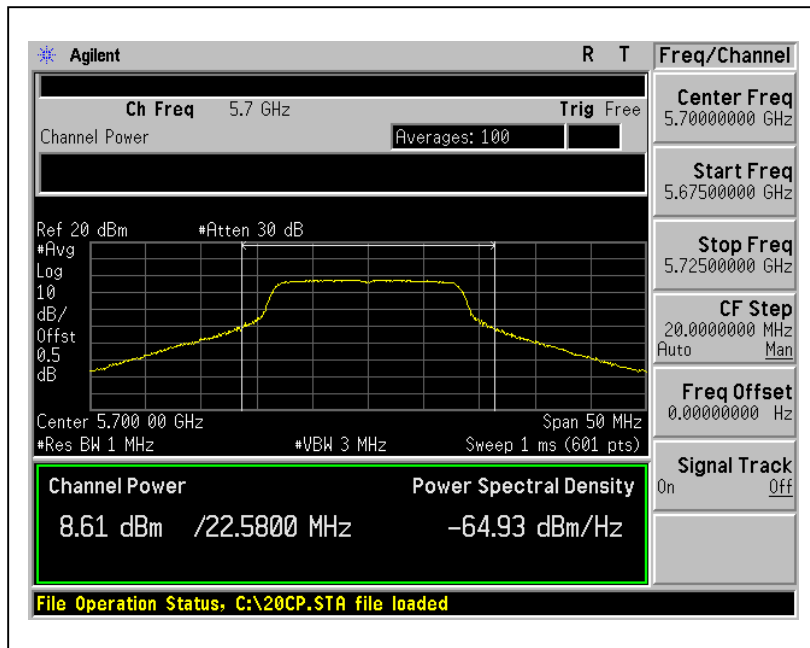


A D T

CH14



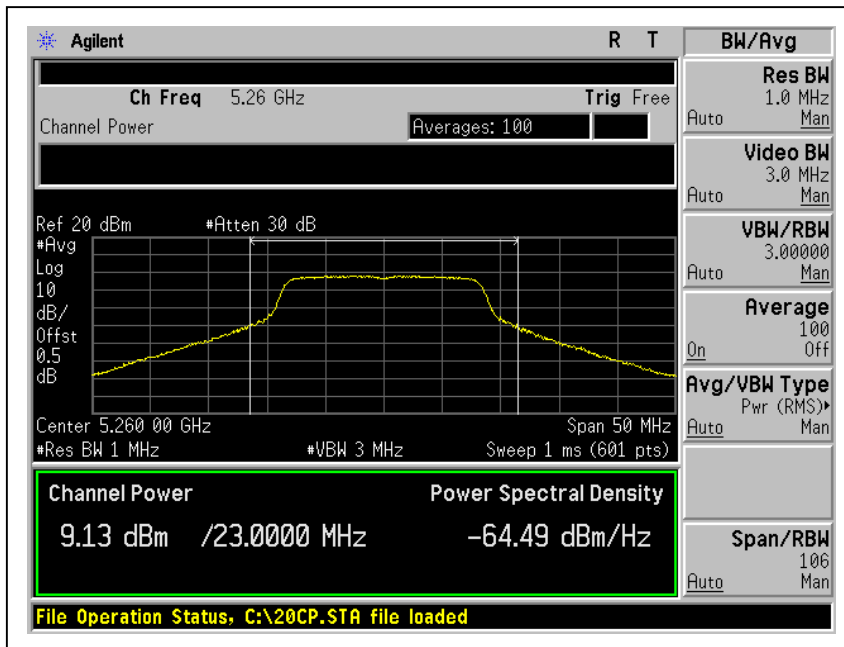
CH19



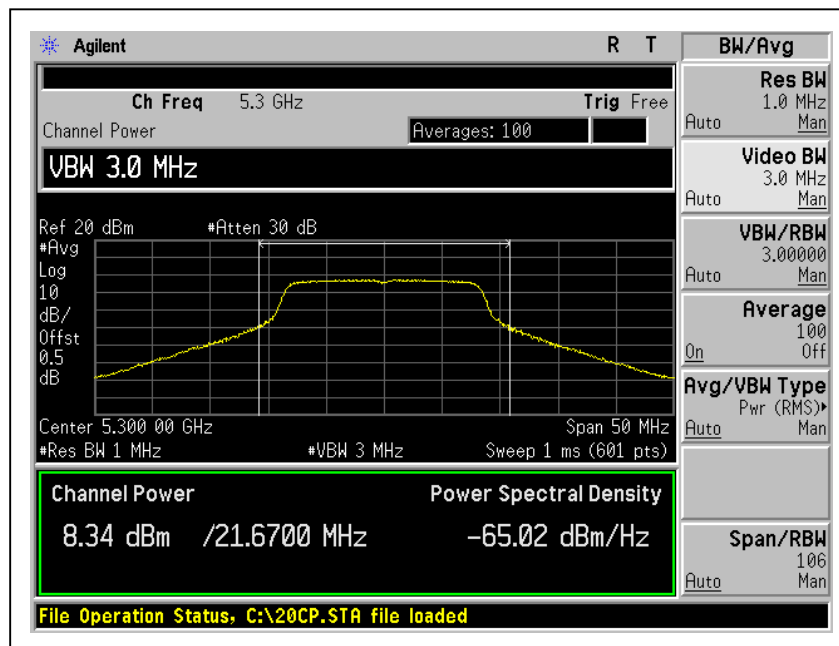


A D T

For Chain (2) :CH5



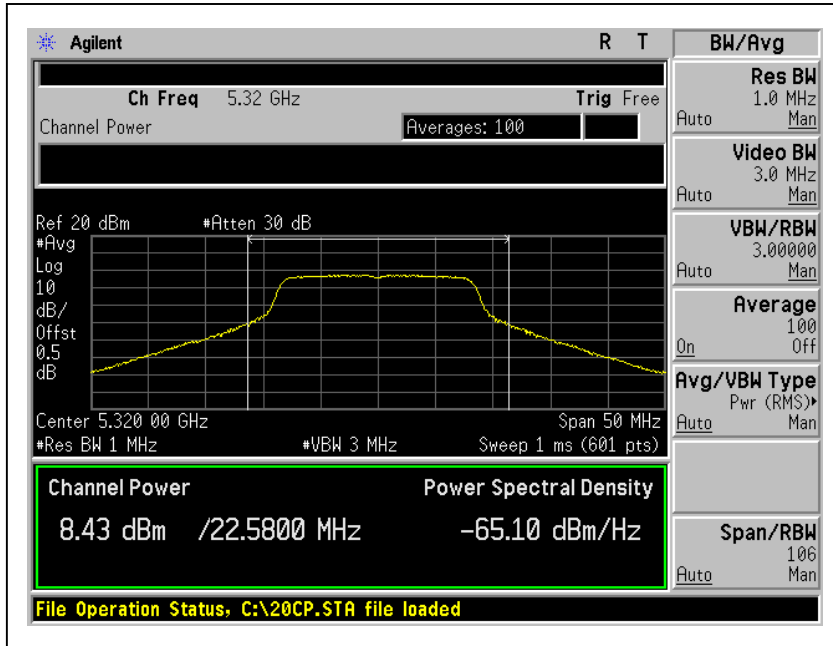
CH7



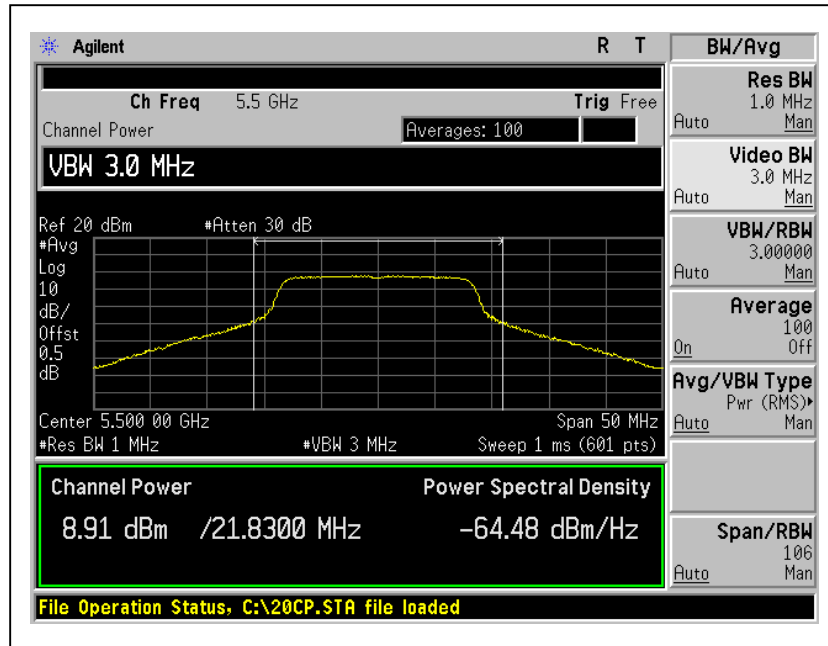


A D T

CH8



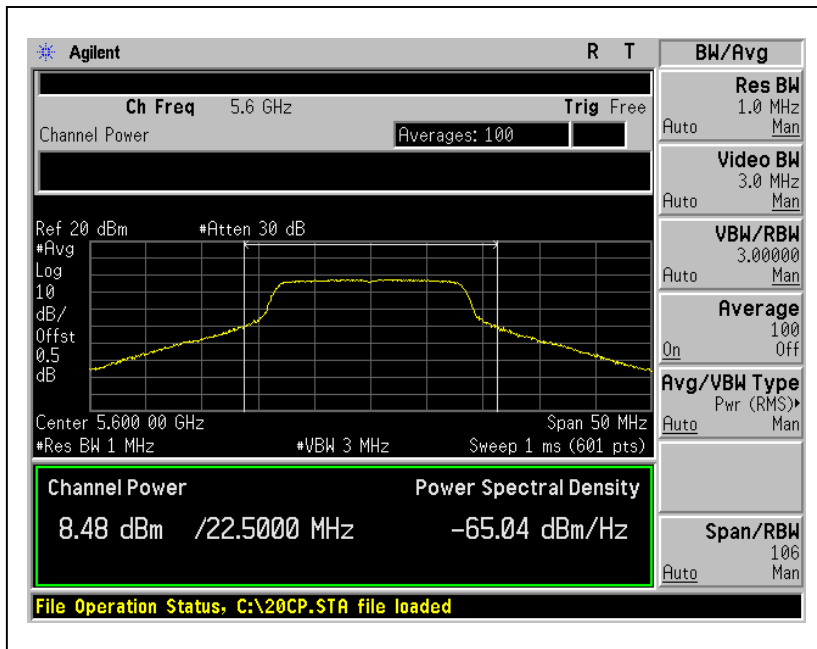
CH9



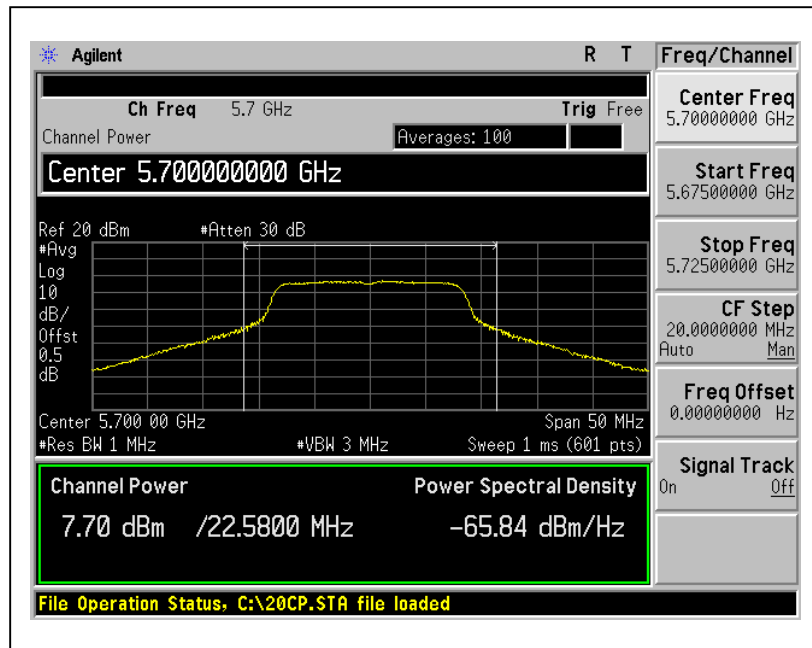


A D T

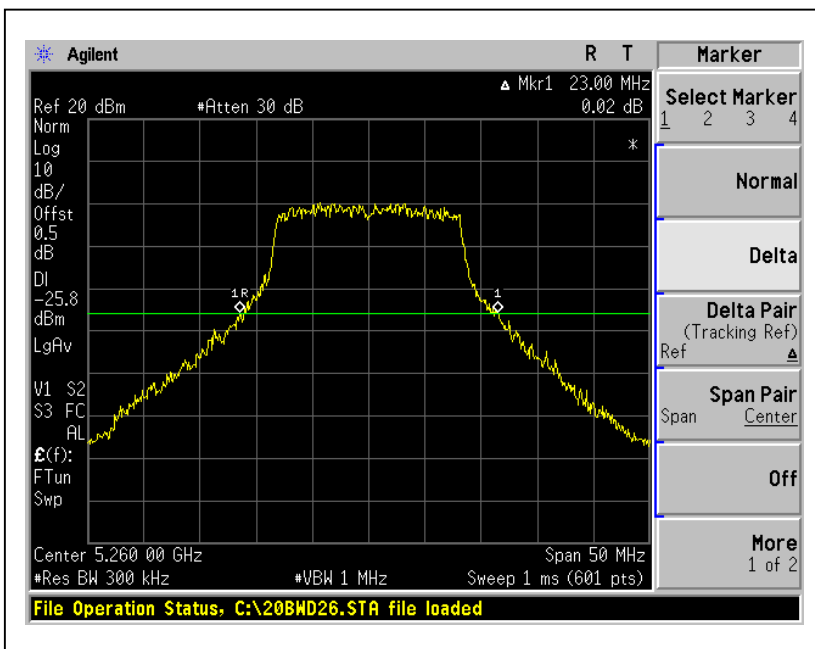
CH14



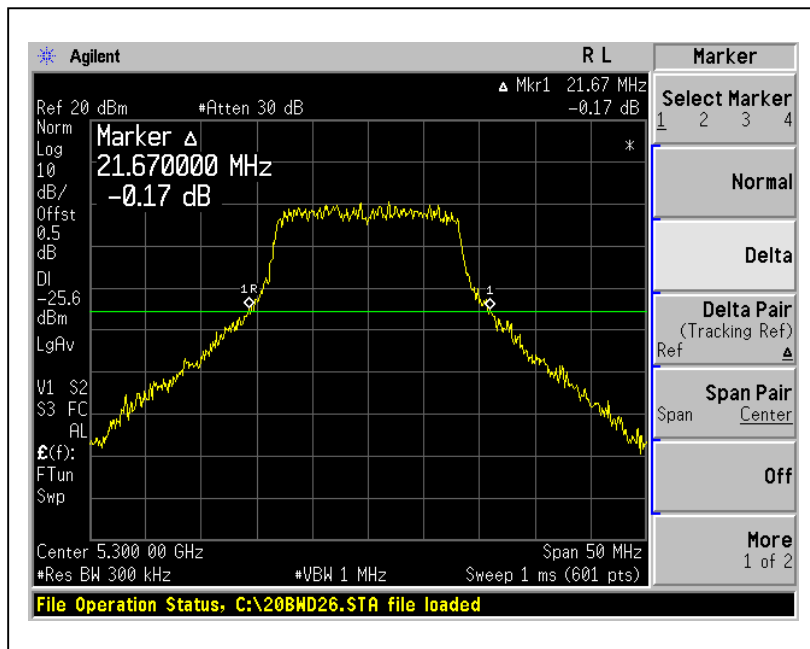
CH19



26dB Occupied Bandwidth:
CH5



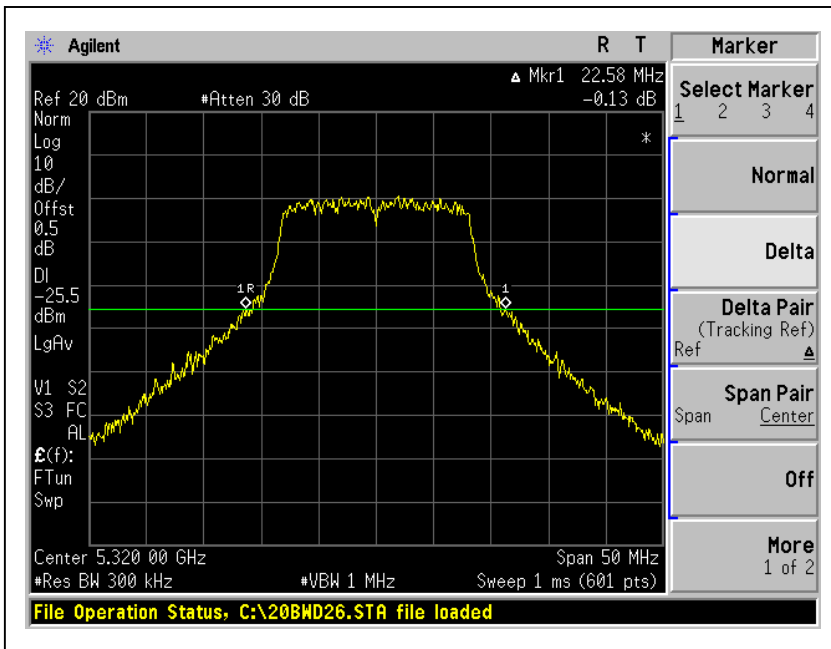
CH7



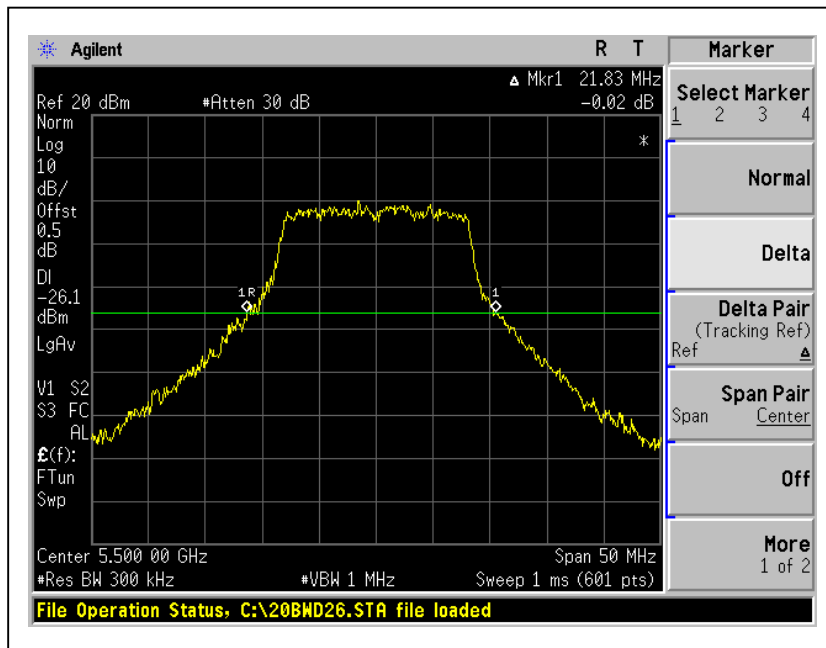


A D T

CH8



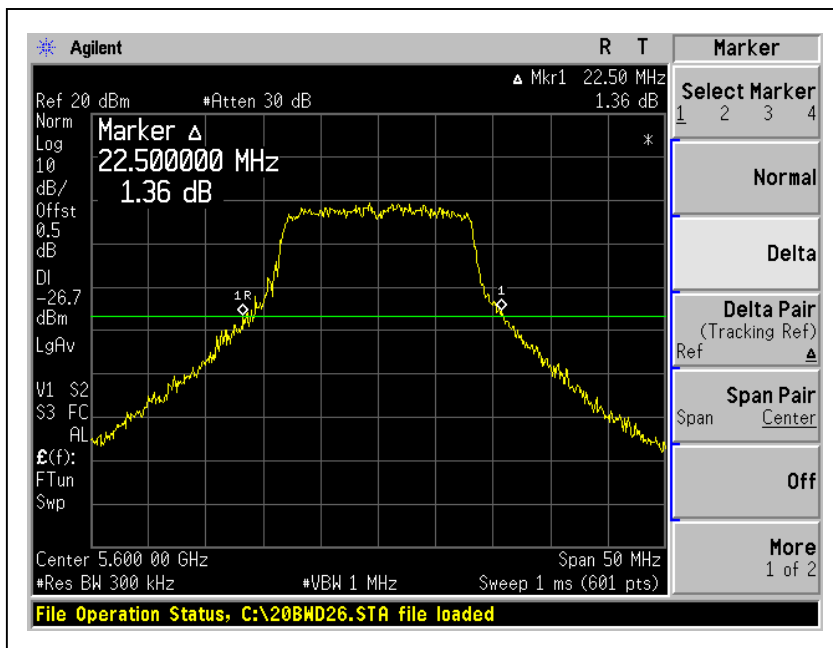
CH9



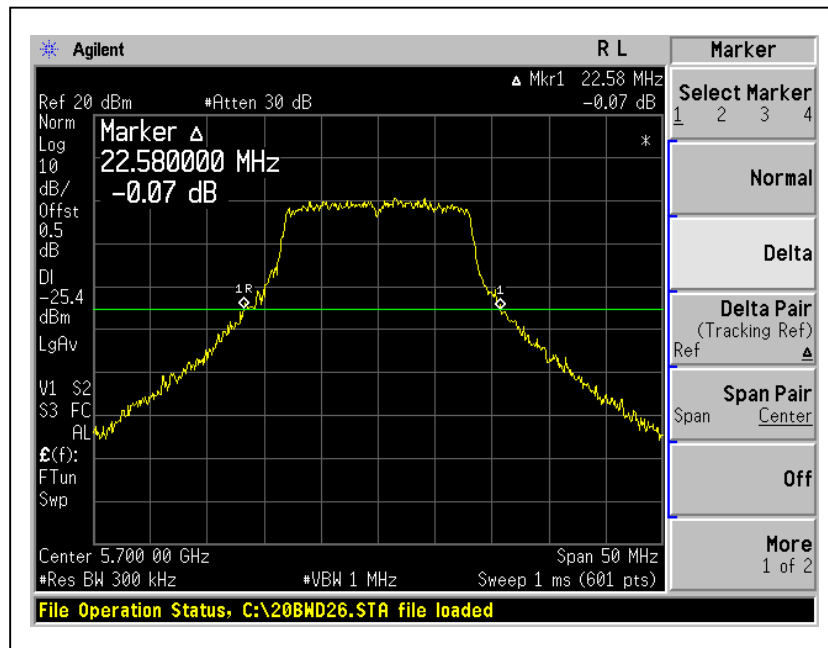


A D T

CH14



CH19





A D T

DRAFT 802.11n (20MHz) OFDM modulation:

| | | | |
|------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 6.5Mbps |
| INPUT POWER | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 26deg.C, 63%RH, 965hPa |
| TESTED BY | Wen Yu | | |

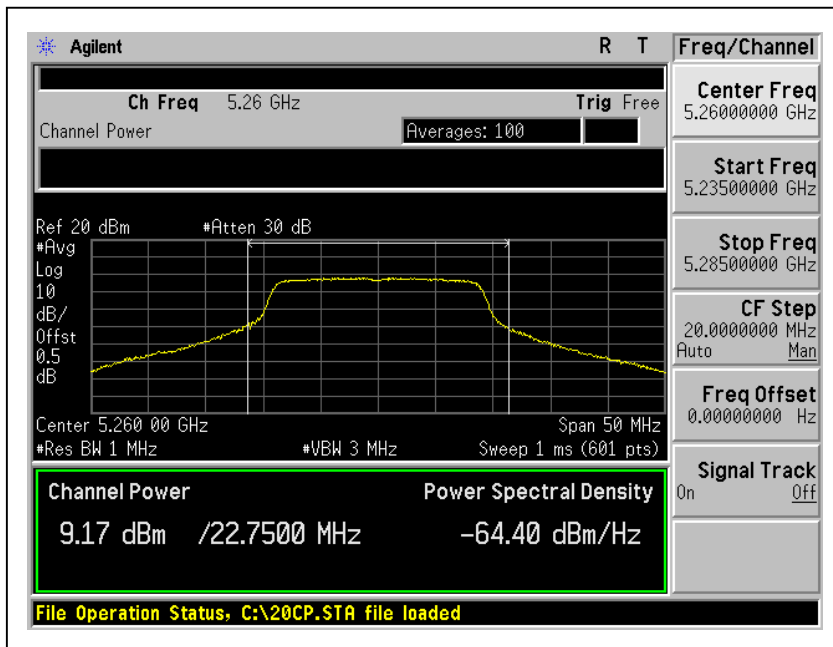
| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER OUTPUT (dBm) | | | PEAK POWER OUTPUT (mW) | | | TOTAL PEAK POWER (dBm) | TOTAL PEAK POWER (mW) | PEAK POWER LIMIT (dBm) | 26dBc Occupied Bandwidth (MHz) | PASS/ FAIL |
|---------|-------------------------|-------------------------|---------|---------|------------------------|---------|---------|------------------------|-----------------------|------------------------|--------------------------------|------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 0 | Chain 1 | Chain 2 | | | | | |
| 5 | 5260 | 9.17 | 7.77 | 9.06 | 8.260 | 5.984 | 8.054 | 13.48 | 22.298 | 15.50 | 22.75 | PASS |
| 7 | 5300 | 8.74 | 7.91 | 8.74 | 7.482 | 6.180 | 7.482 | 13.25 | 21.144 | 15.50 | 23.17 | PASS |
| 8 | 5320 | 8.75 | 7.98 | 9.02 | 7.499 | 6.281 | 7.980 | 13.38 | 21.760 | 15.50 | 23.33 | PASS |
| 9 | 5500 | 7.97 | 8.21 | 9.23 | 6.266 | 6.622 | 8.375 | 13.28 | 21.263 | 15.50 | 23.17 | PASS |
| 14 | 5600 | 8.68 | 8.83 | 9.01 | 7.379 | 7.638 | 7.962 | 13.61 | 22.979 | 15.50 | 23.08 | PASS |
| 19 | 5700 | 9.16 | 8.38 | 7.64 | 8.241 | 6.887 | 5.808 | 13.21 | 20.936 | 15.50 | 22.58 | PASS |

NOTE: 1. The 26dBc Occupied Bandwidth plot, please refer to the following pages.
2. Power limitation=24-(14.5-6)=15.5dBm (For non-point to point application).

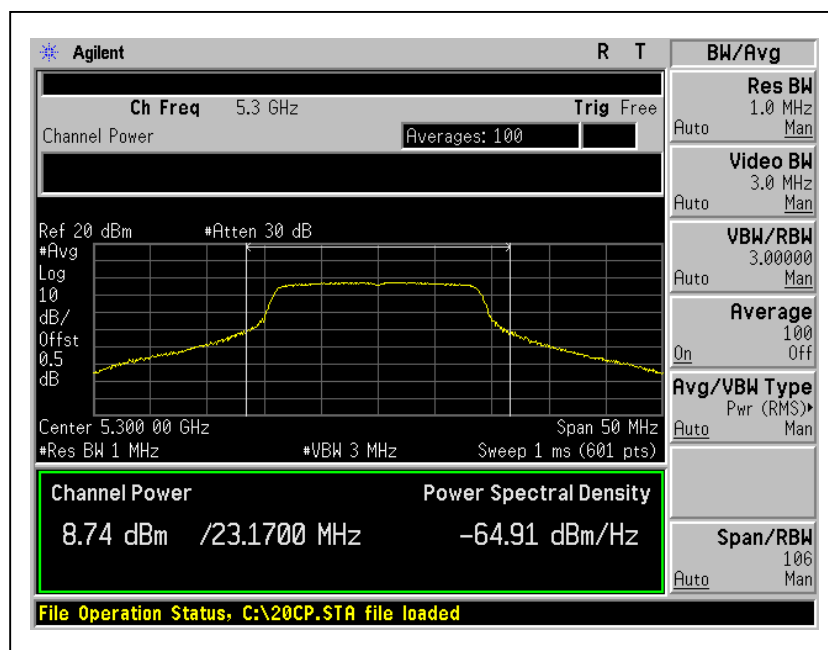


A D T

Peak Power Output: For Chain (0) :CH5



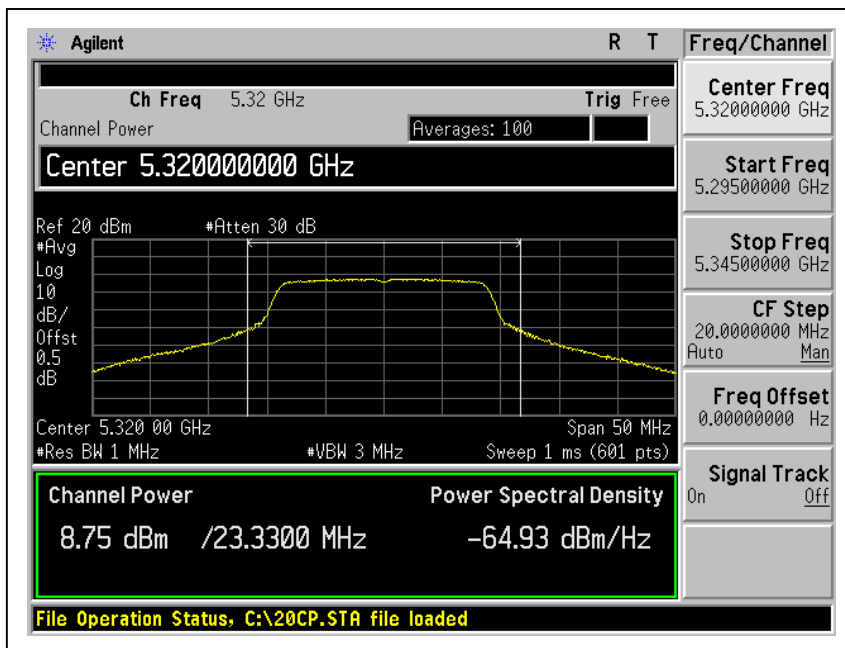
CH7



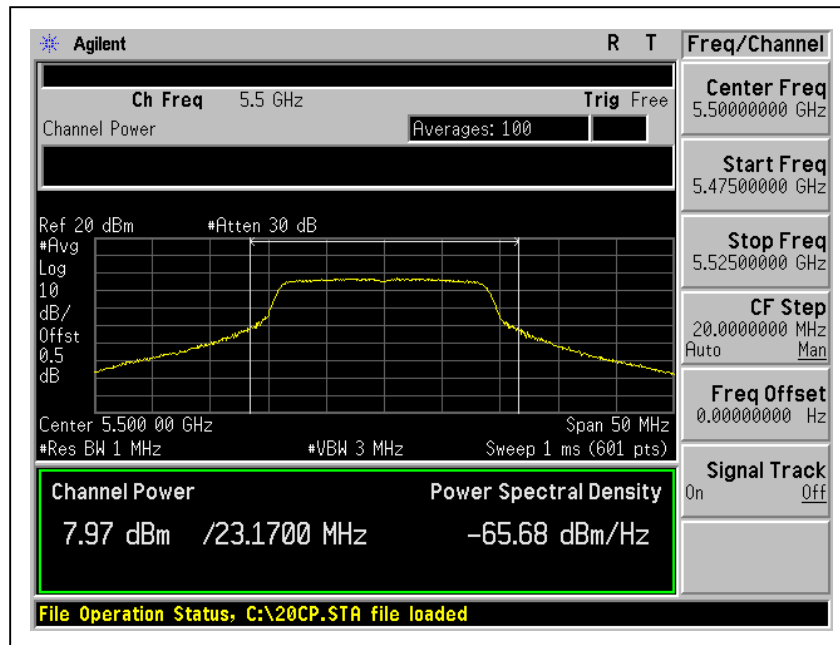


A D T

CH8



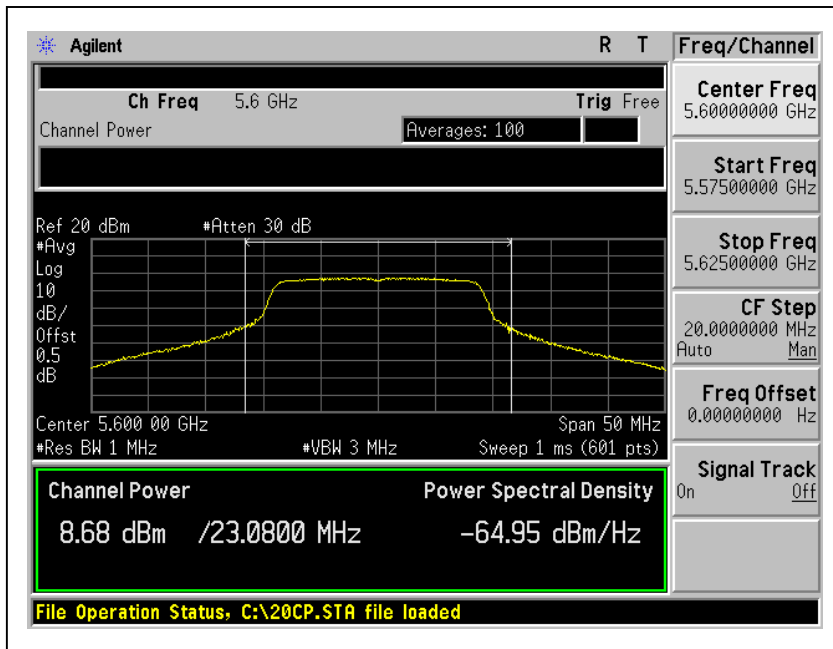
CH9



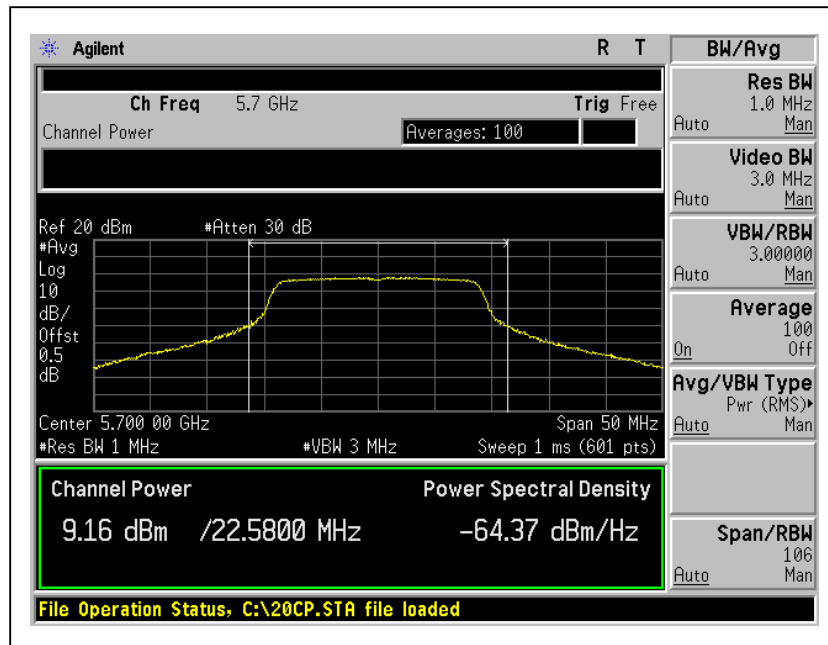


A D T

CH14



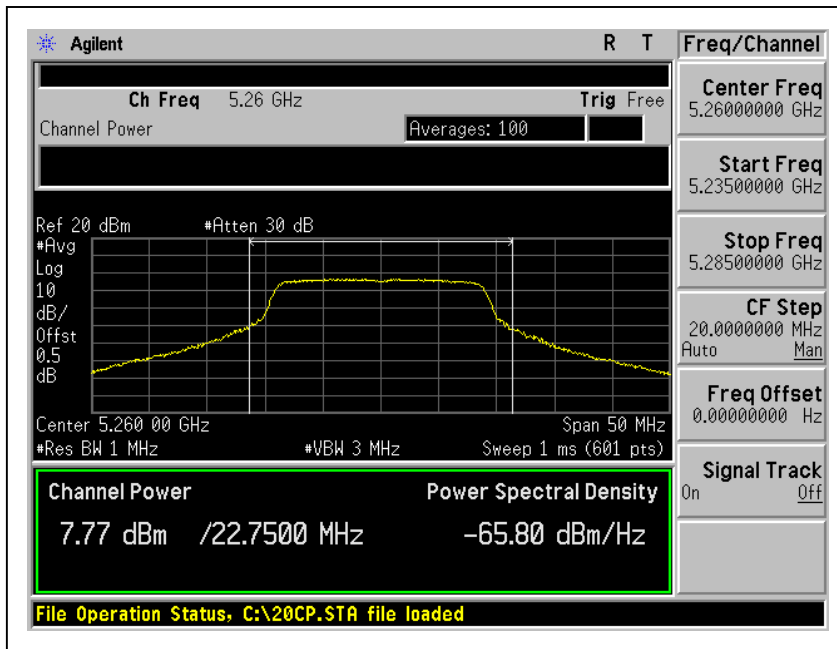
CH19



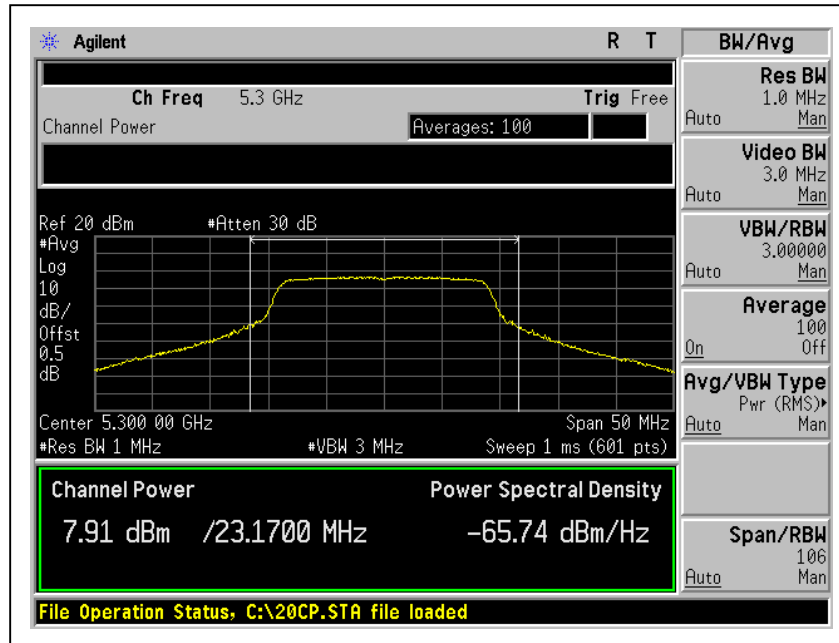


A D T

For Chain (1) :CH5



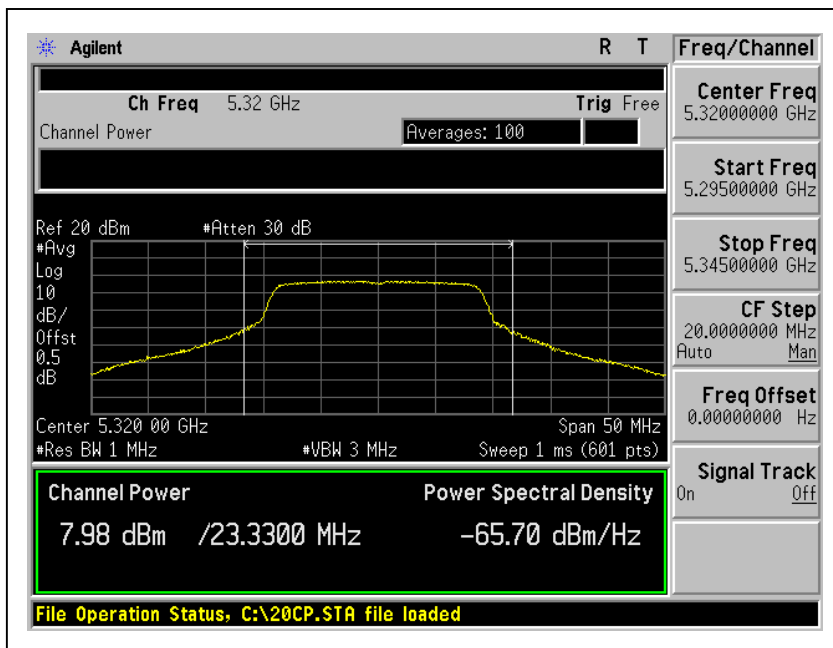
CH7



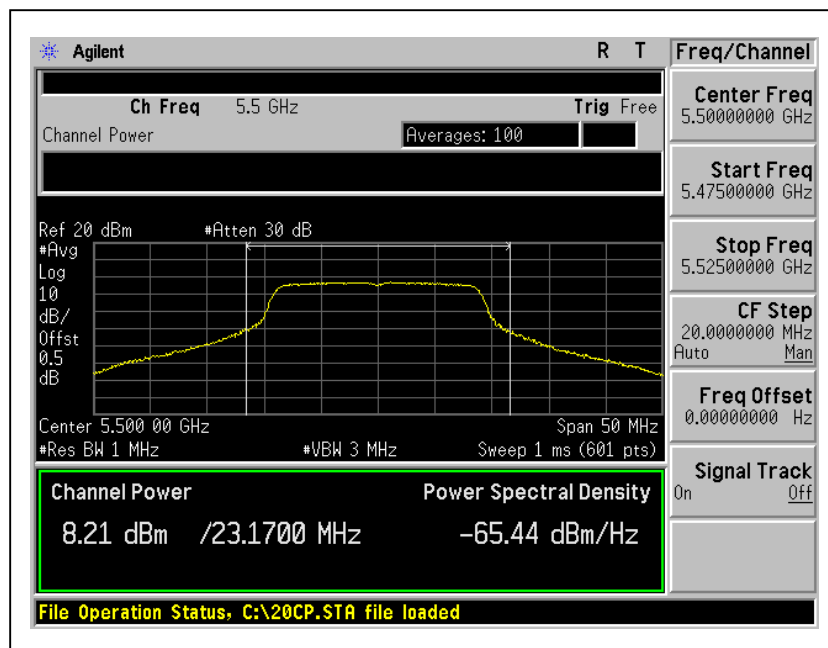


A D T

CH8



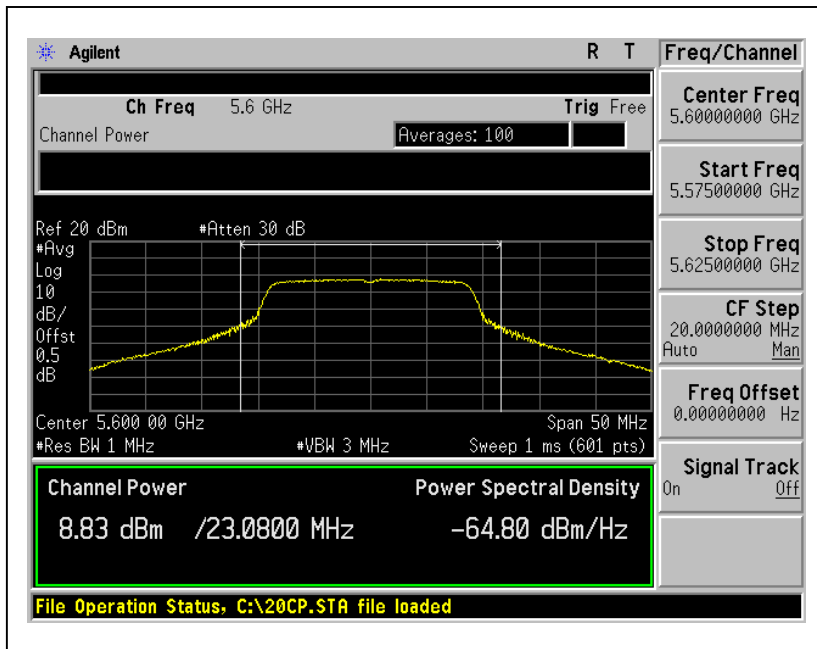
CH9



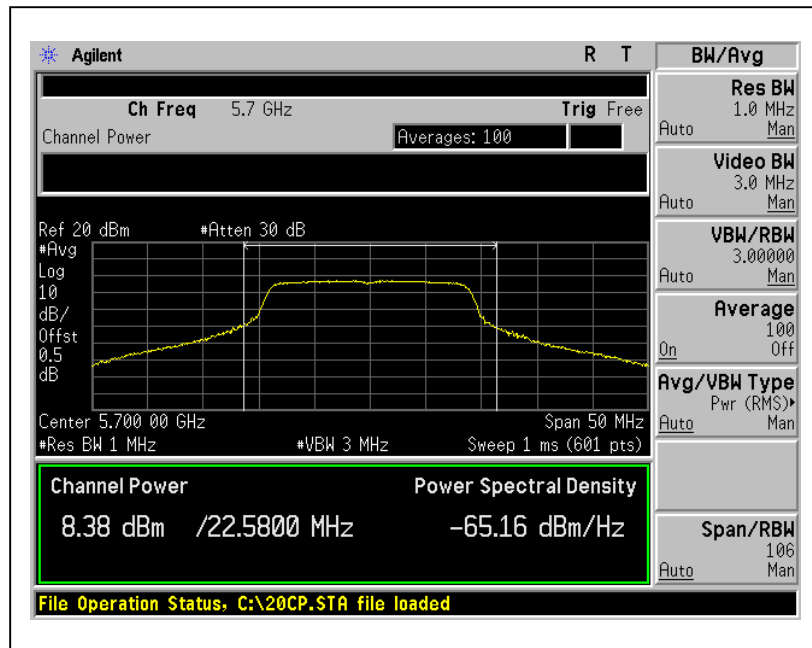


A D T

CH14



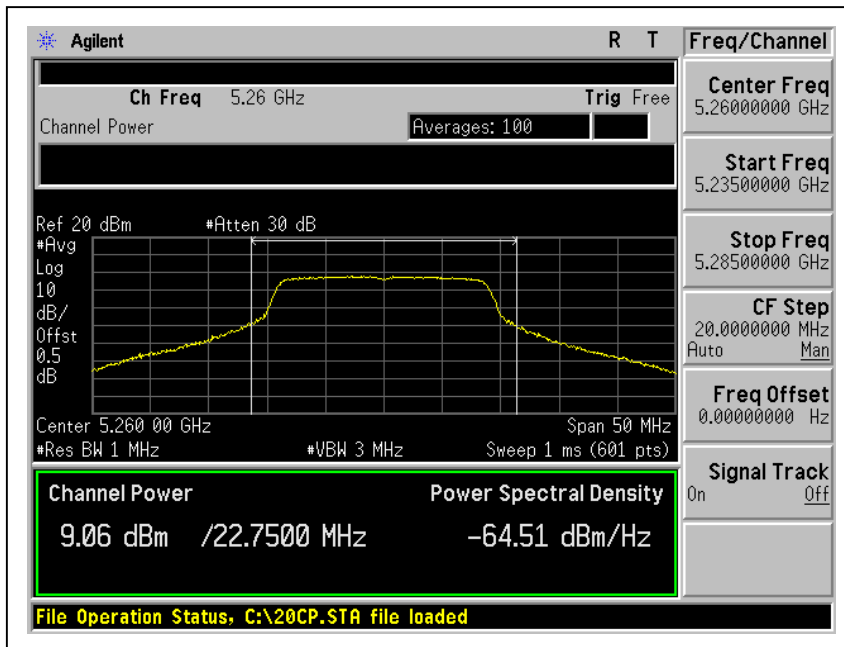
CH19



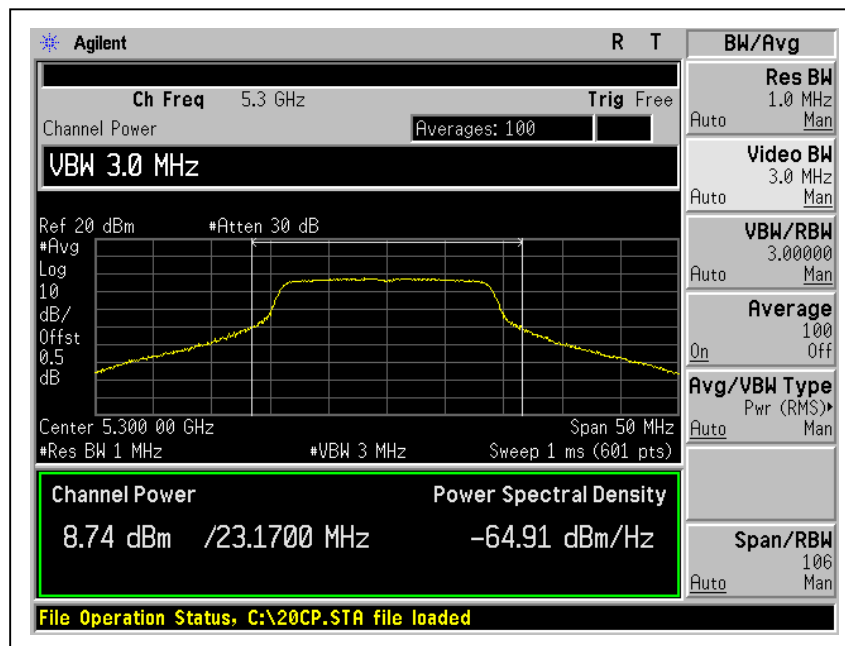


A D T

For Chain (2) :CH5



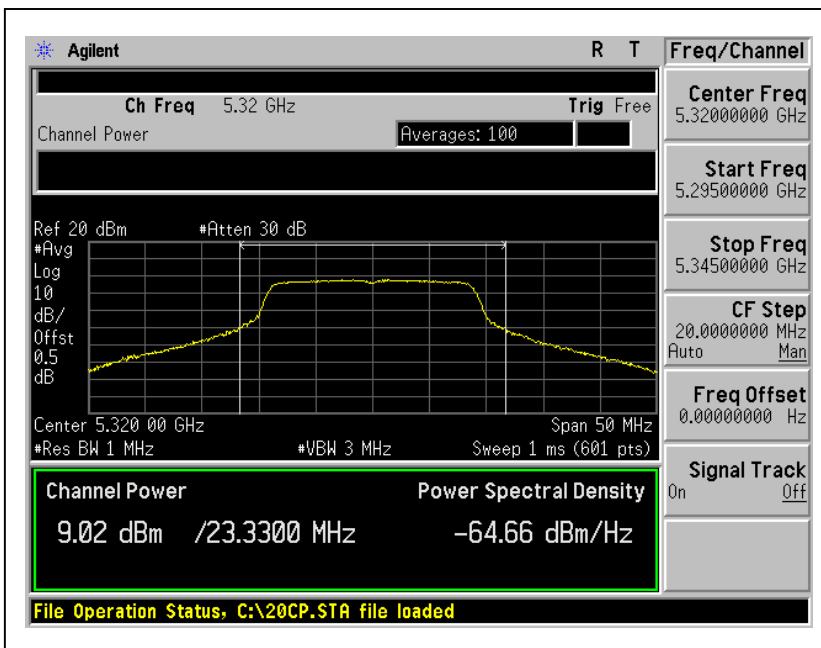
CH7



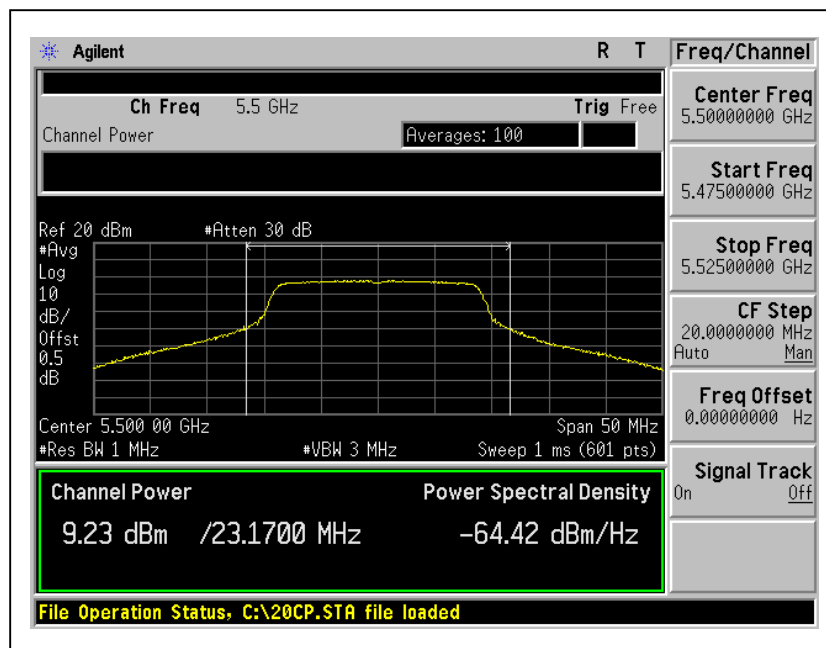


A D T

CH8



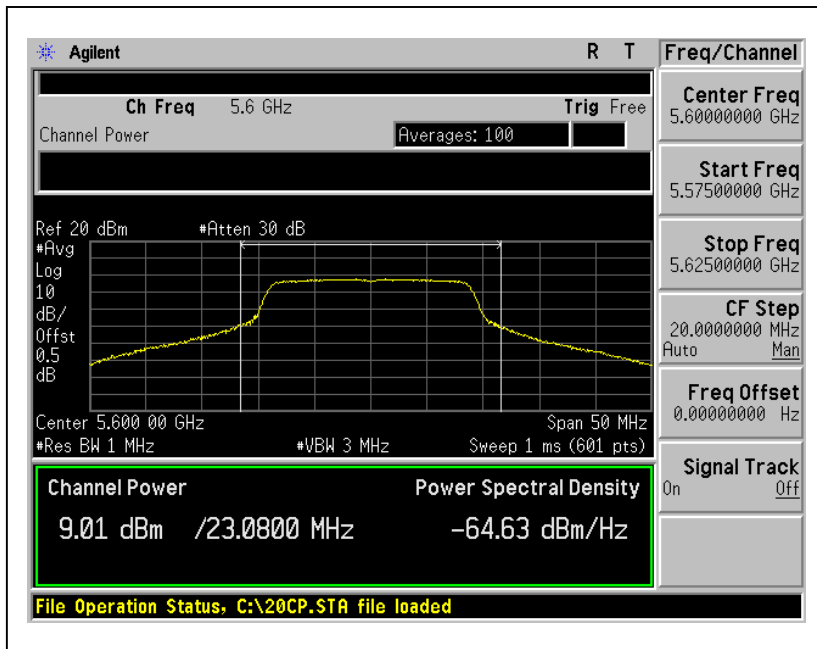
CH9



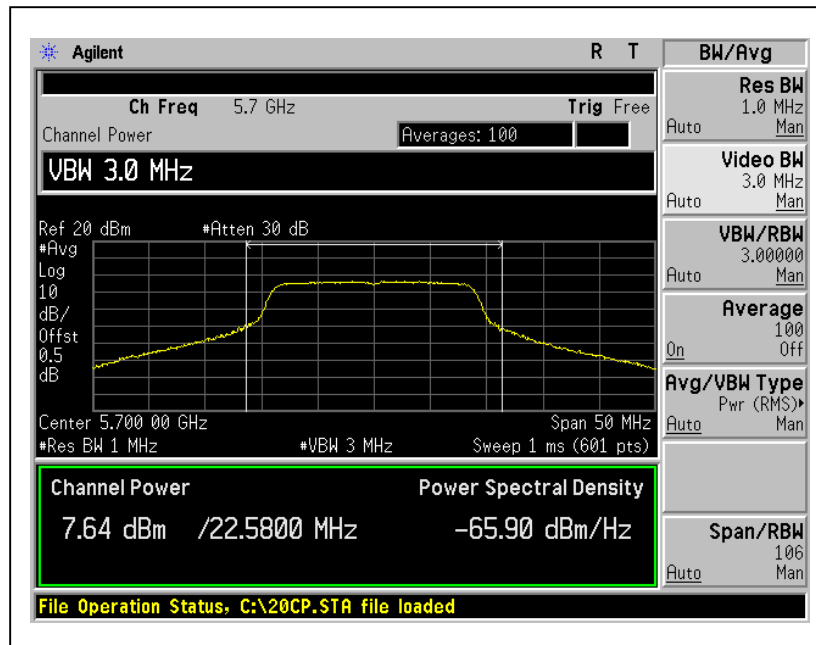


A D T

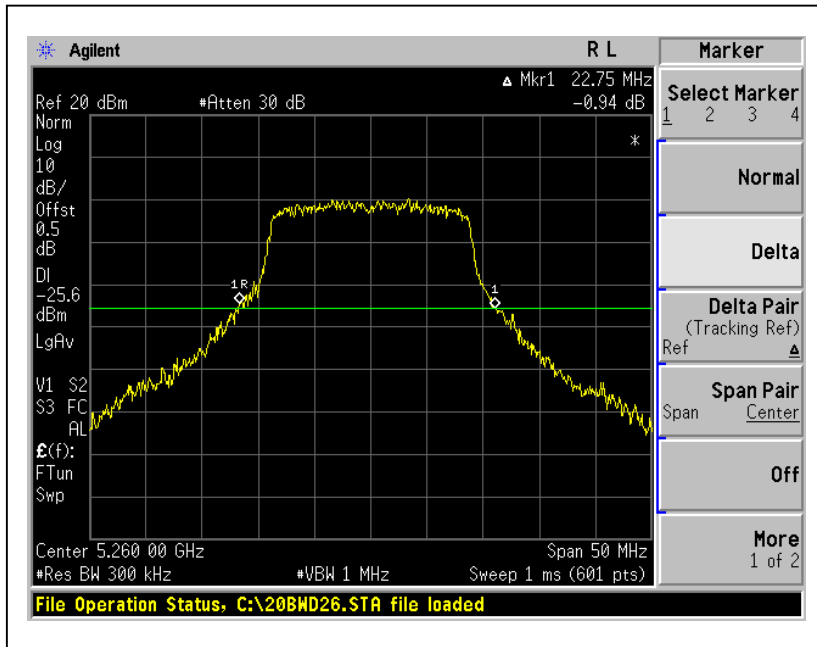
CH14



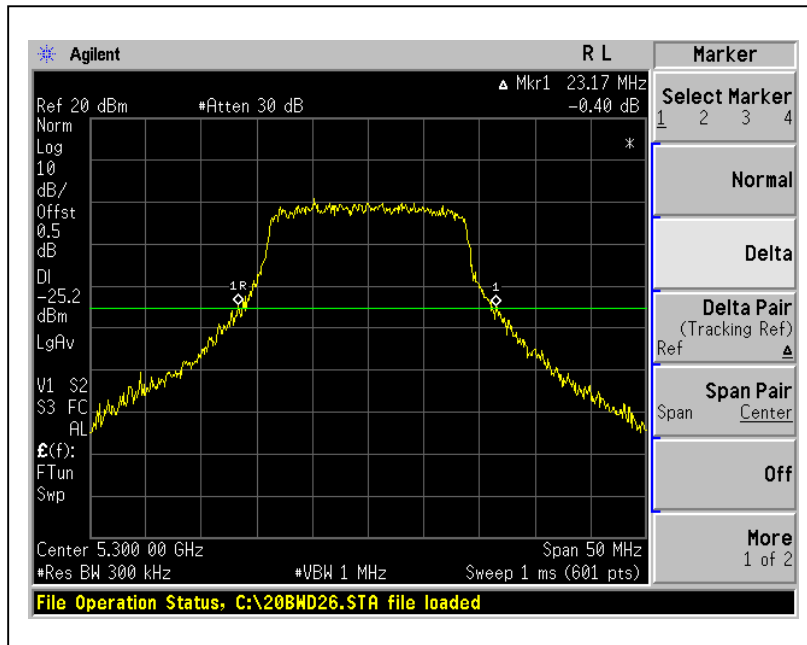
CH19



26dB Occupied Bandwidth:
CH5



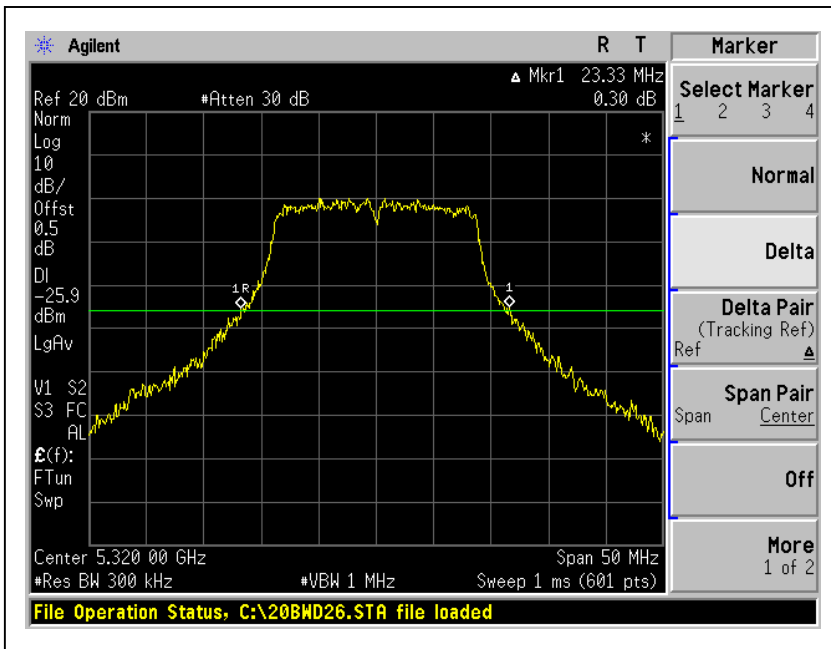
CH7



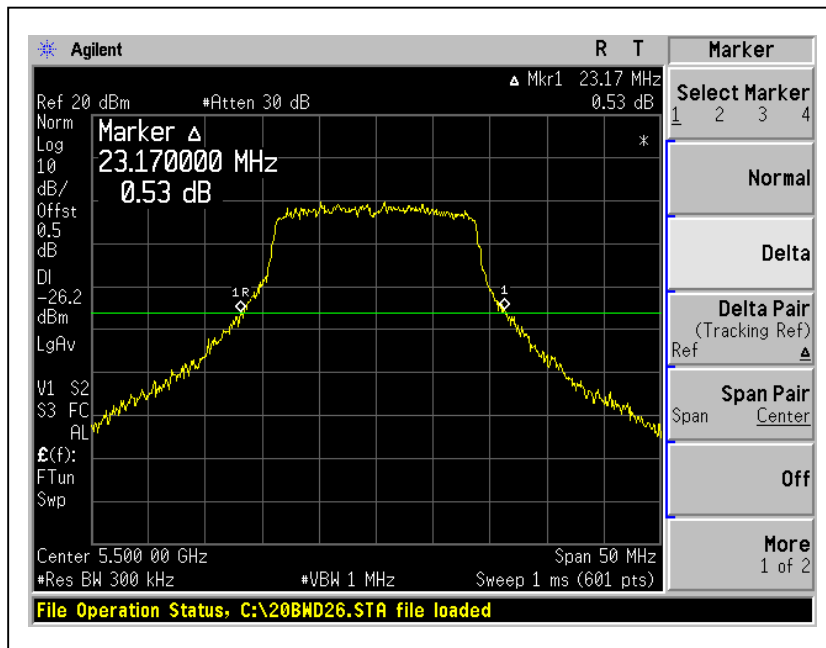


A D T

CH8



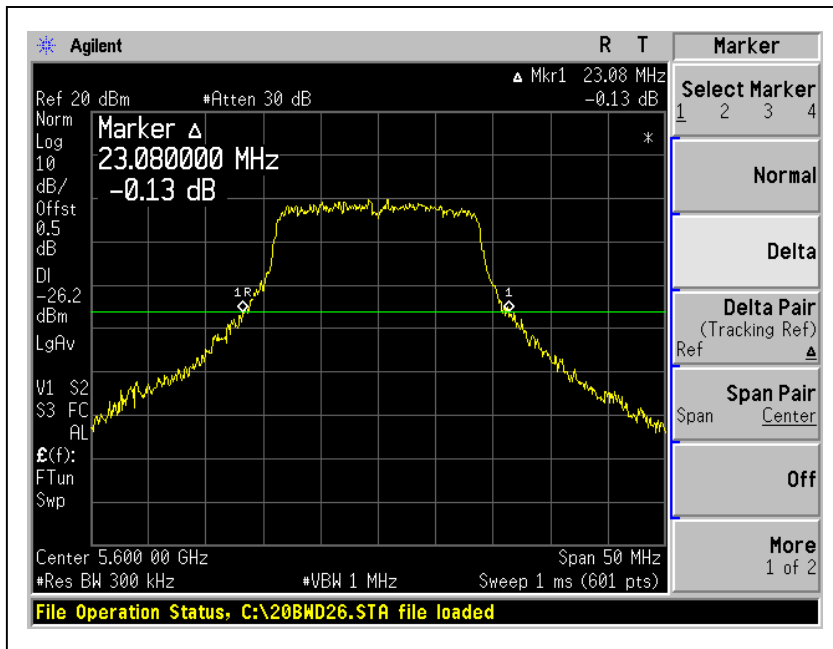
CH9



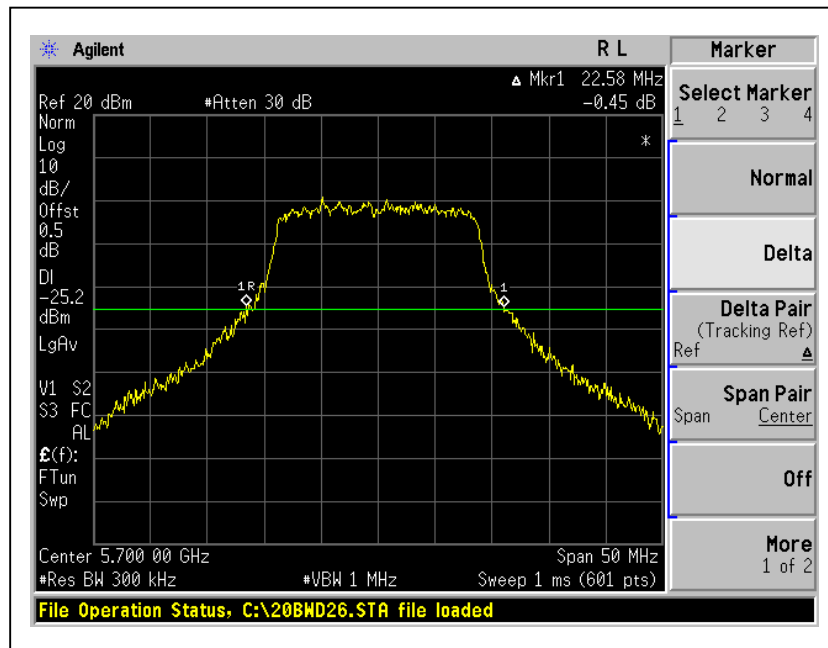


A D T

CH14



CH19





A D T

DRAFT 802.11n (40MHz) OFDM MODULATION:

| | | | |
|------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 13.5Mbps |
| INPUT POWER | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 26deg.C, 63%RH, 965hPa |
| TESTED BY | Wen Yu | | |

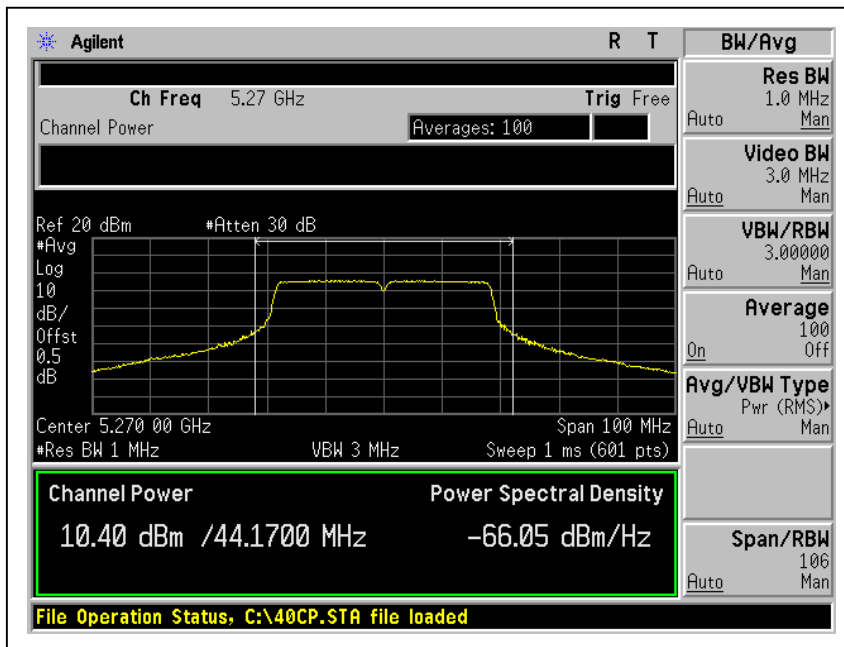
| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER OUTPUT (dBm) | | | PEAK POWER OUTPUT (mW) | | | TOTAL PEAK POWER (dBm) | TOTAL PEAK POWER (mW) | PEAK POWER LIMIT (dBm) | 26dBc Occupied Bandwidth (MHz) | PASS/ FAIL |
|---------|-------------------------|-------------------------|---------|---------|------------------------|---------|---------|------------------------|-----------------------|------------------------|--------------------------------|------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 0 | Chain 1 | Chain 2 | | | | | |
| 3 | 5270 | 10.4 | 9.49 | 10.1 | 10.965 | 8.892 | 10.233 | 14.78 | 30.090 | 15.50 | 44.17 | PASS |
| 4 | 5310 | 10.71 | 9.78 | 9.75 | 11.776 | 9.506 | 9.441 | 14.87 | 30.723 | 15.50 | 44.50 | PASS |
| 5 | 5510 | 5.24 | 5 | 6.18 | 3.342 | 3.162 | 4.150 | 10.28 | 10.654 | 15.50 | 44.33 | PASS |
| 7 | 5590 | 10.65 | 10.43 | 10.36 | 11.614 | 11.041 | 10.864 | 15.25 | 33.519 | 15.50 | 44.17 | PASS |
| 9 | 5670 | 10.7 | 10.36 | 10.25 | 11.749 | 10.864 | 10.593 | 15.21 | 33.206 | 15.50 | 45.17 | PASS |

NOTE: 1. The 26dBc Occupied Bandwidth plot, please refer to the following pages.
2. Power limitation= $24-(14.5-6) = 15.5\text{dBm}$ (For non-point to point application).

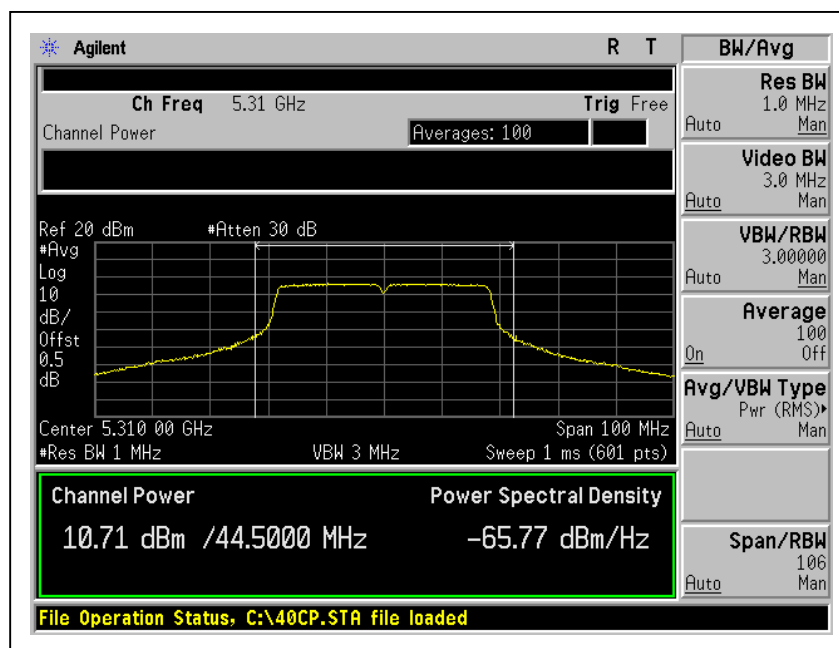


A D T

Peak Power Output: For Chain (0) :CH3



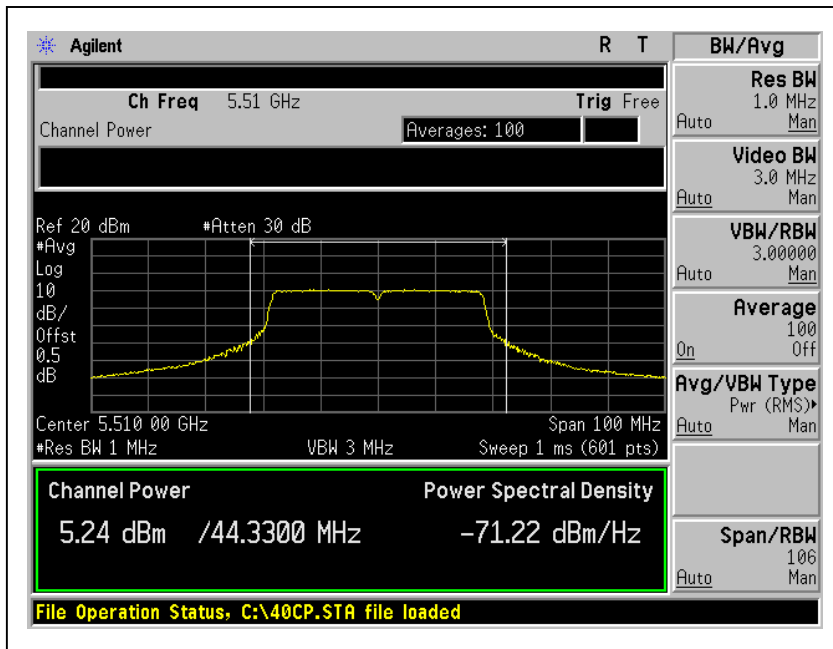
CH4



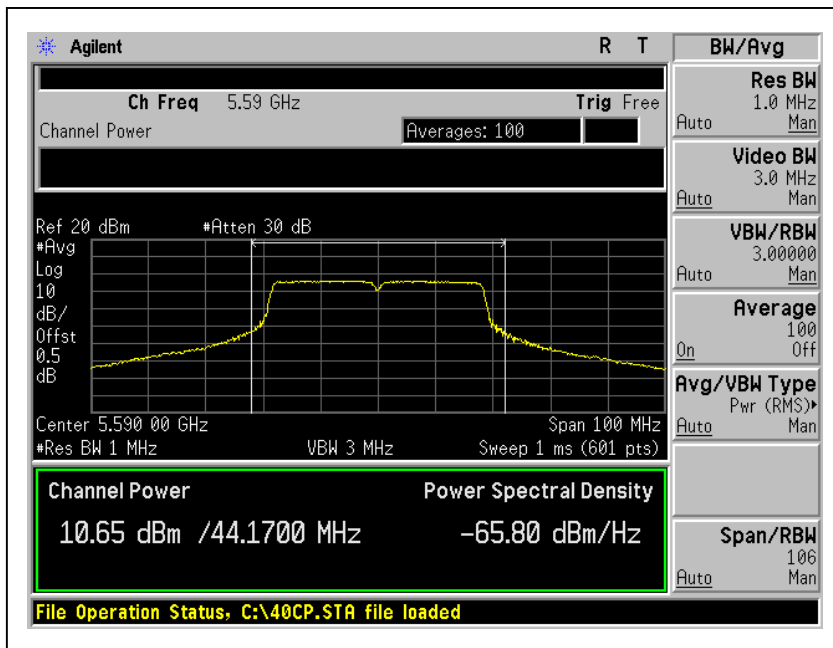


A D T

CH5



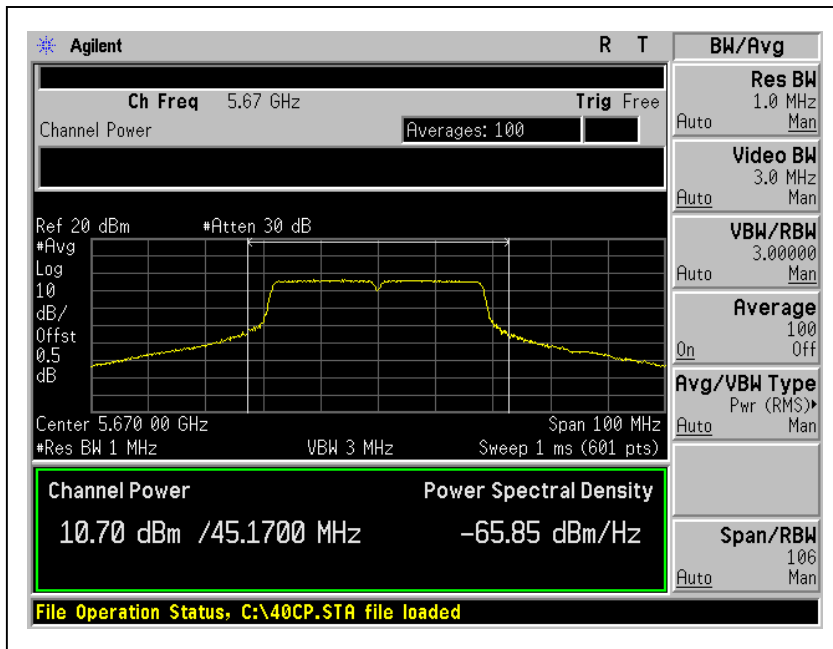
CH7



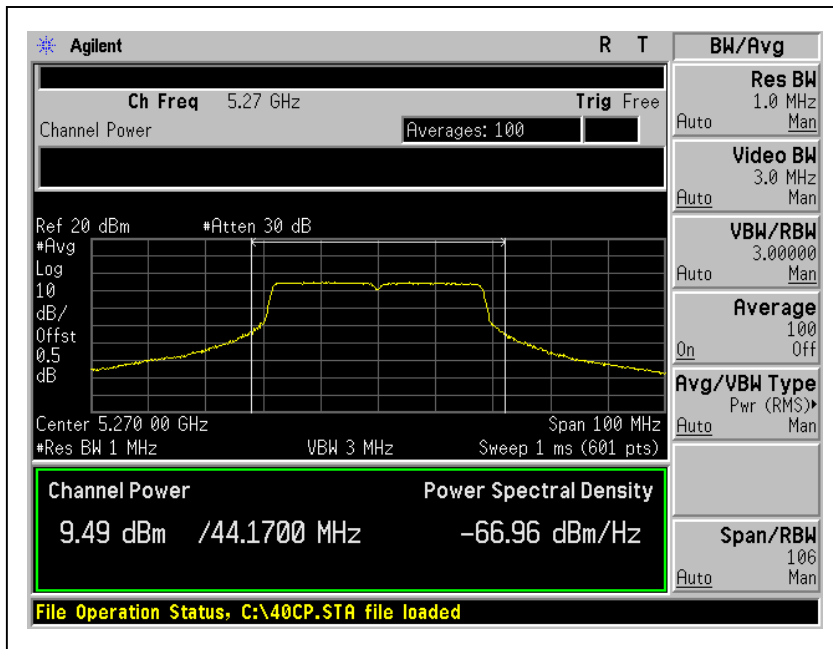


A D T

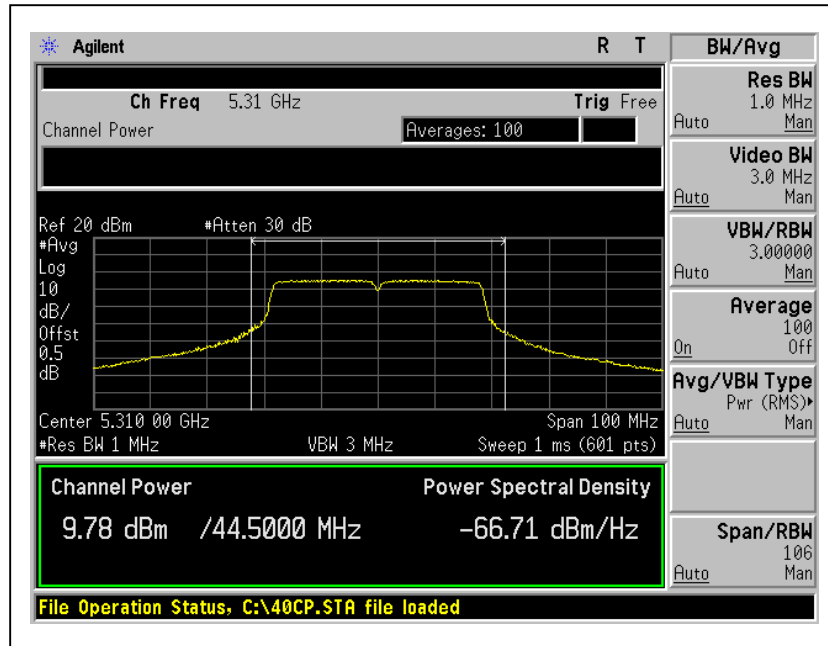
CH8



For Chain (1) :CH3



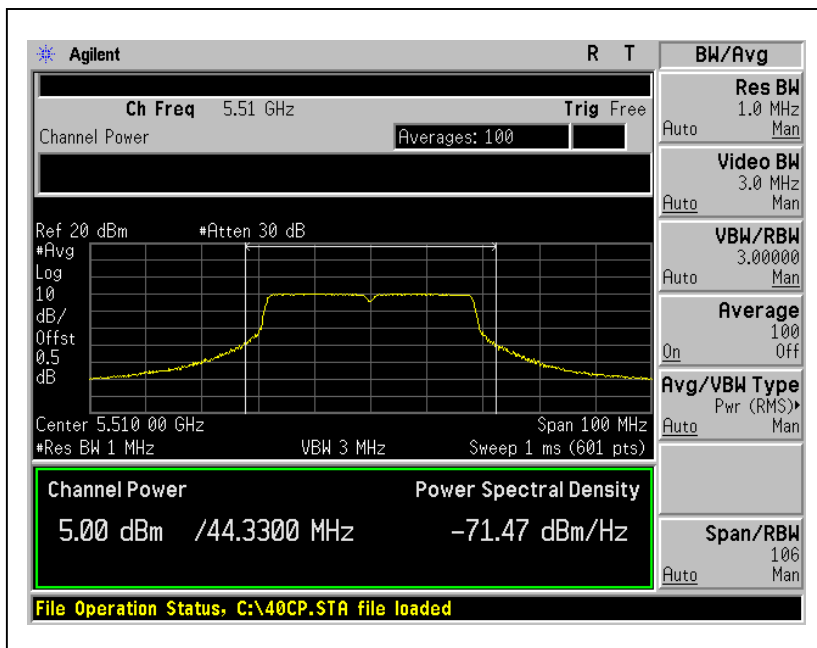
CH4



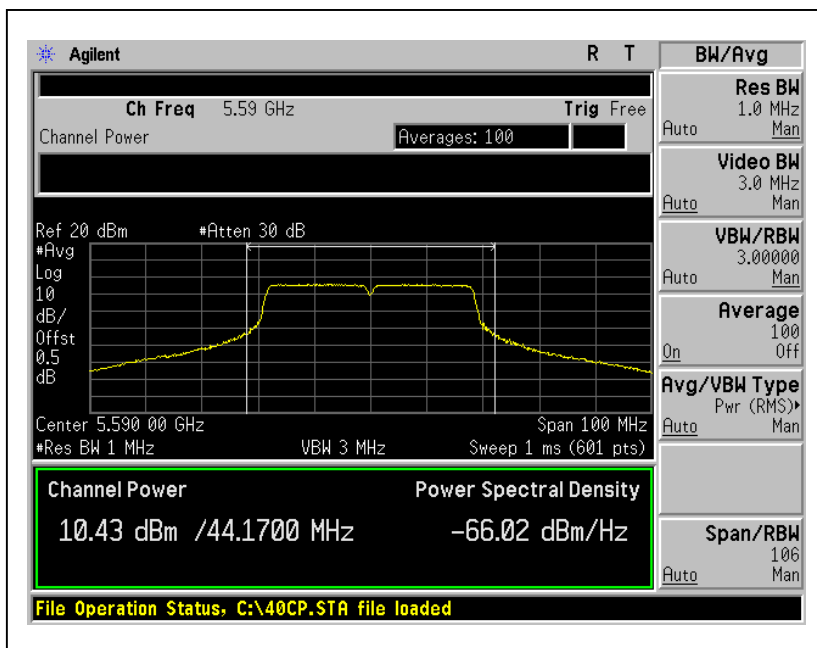


A D T

CH5



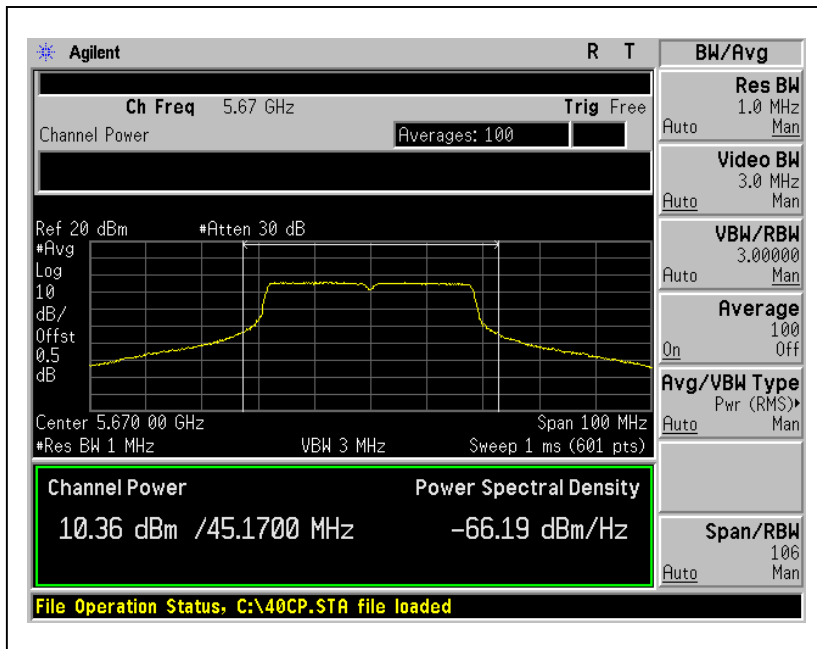
CH7





A D T

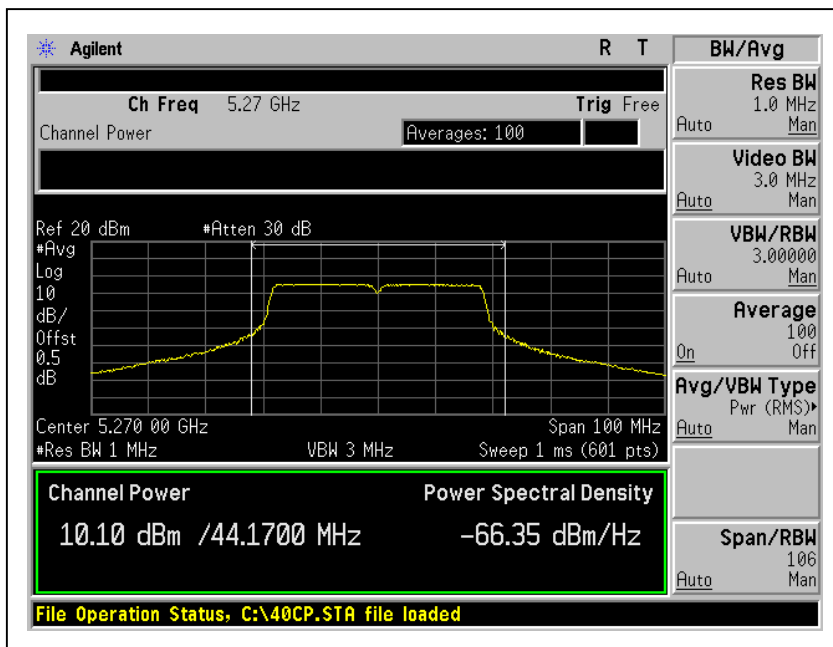
CH8



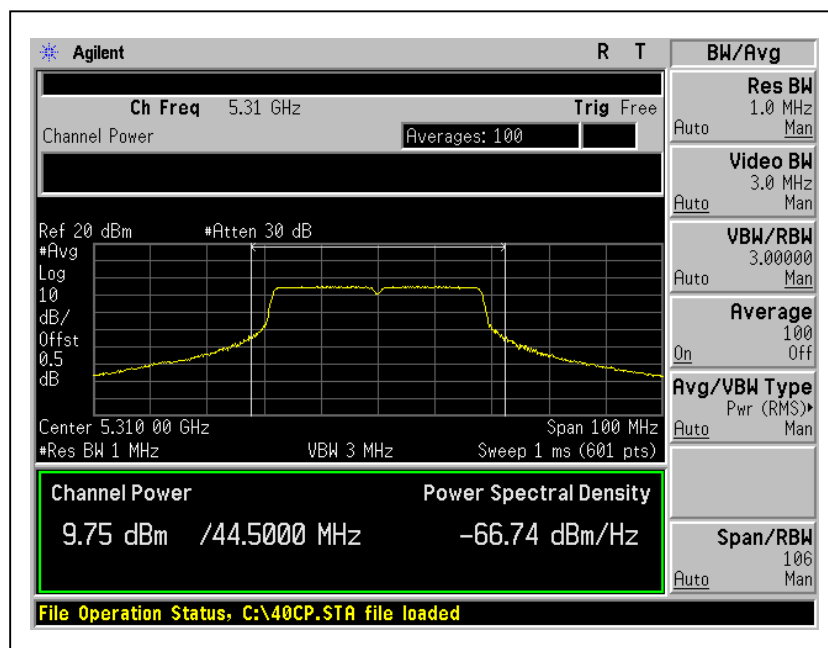


A D T

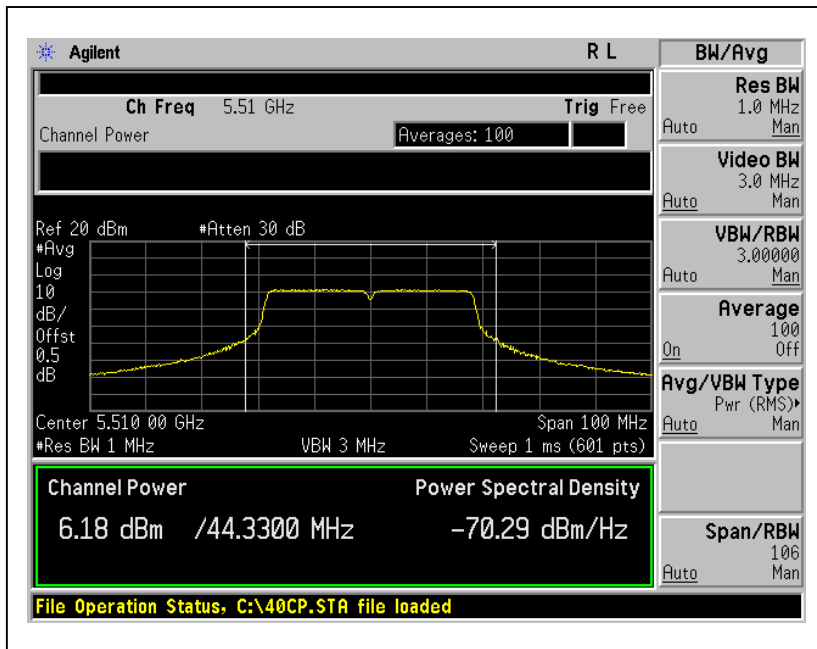
For Chain (2) :CH3



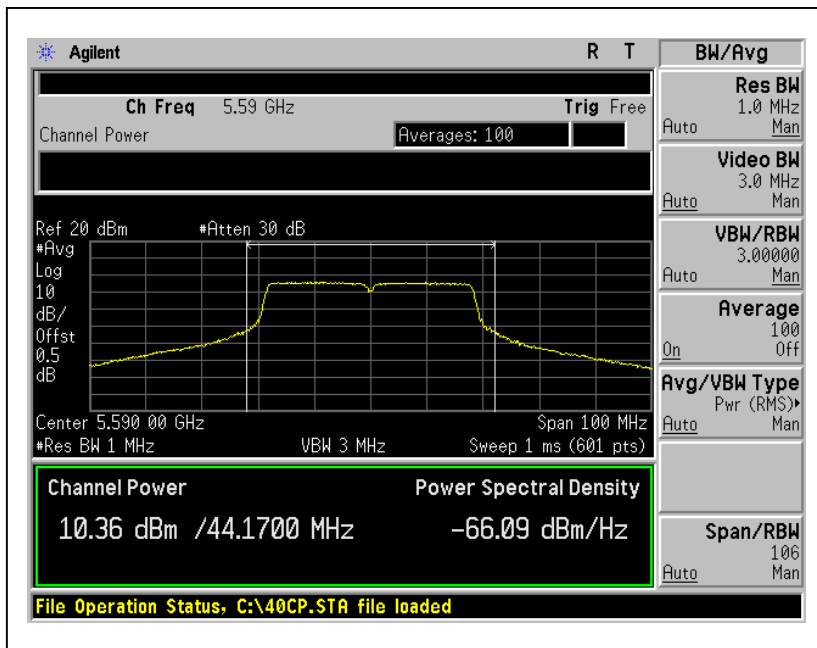
CH4



CH5



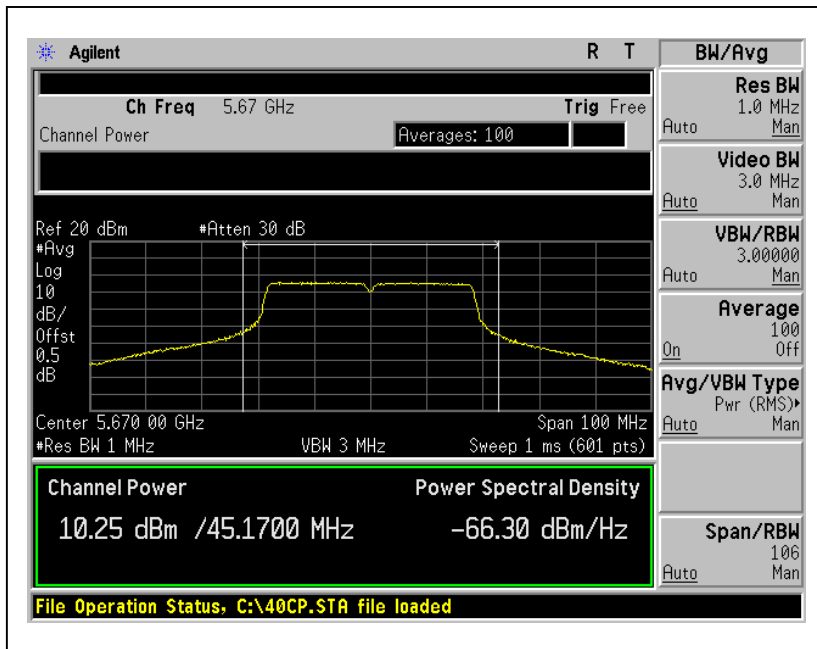
CH7





A D T

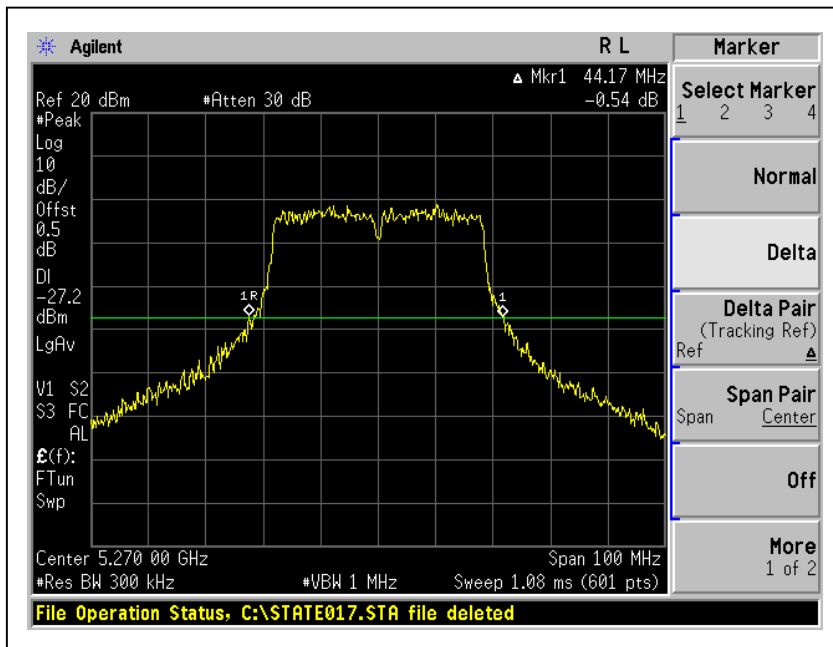
CH8



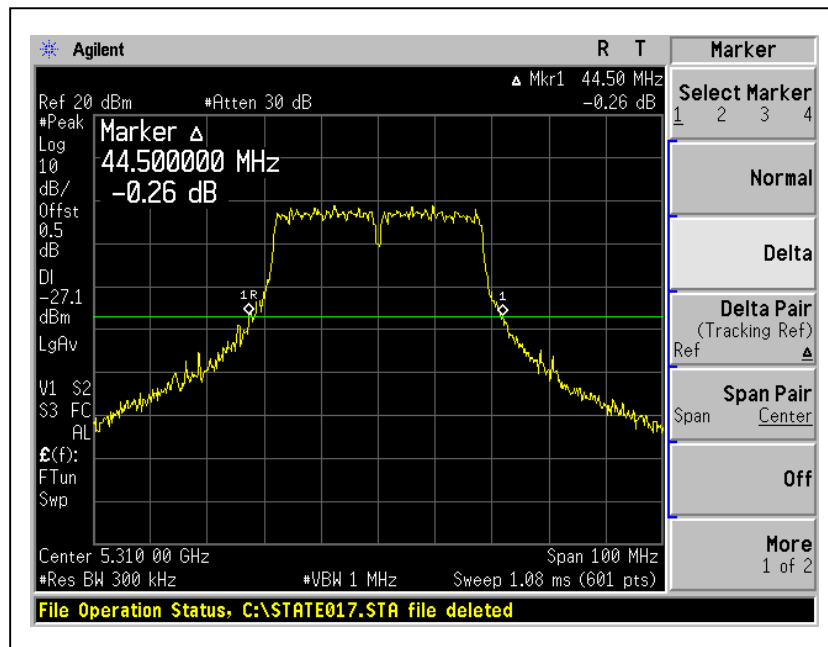


A D T

26dB Occupied Bandwidth: CH3



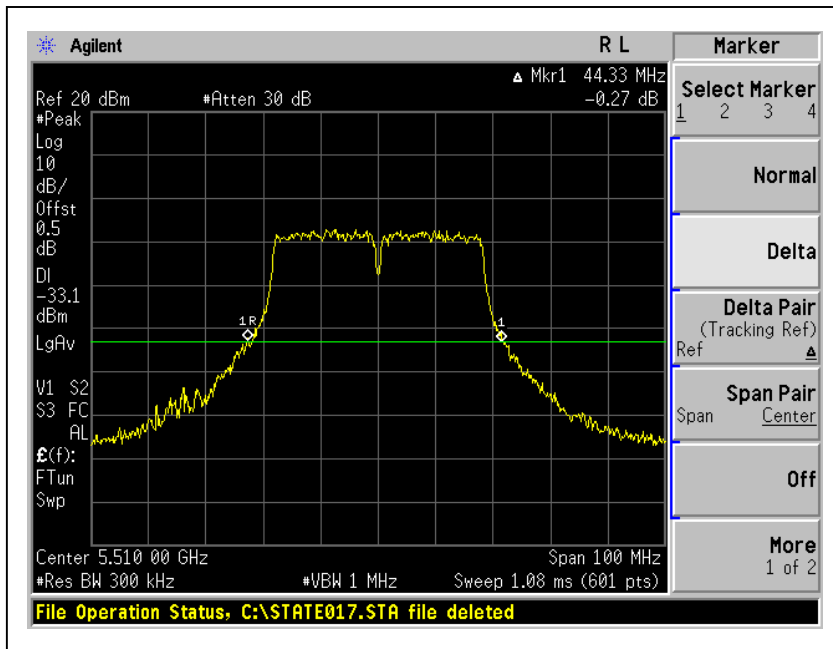
CH4



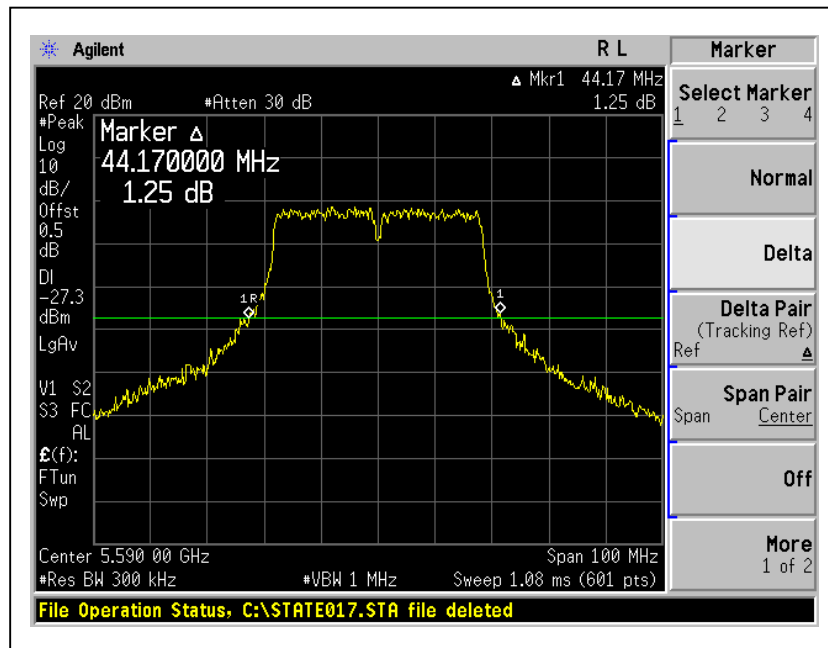


A D T

CH5



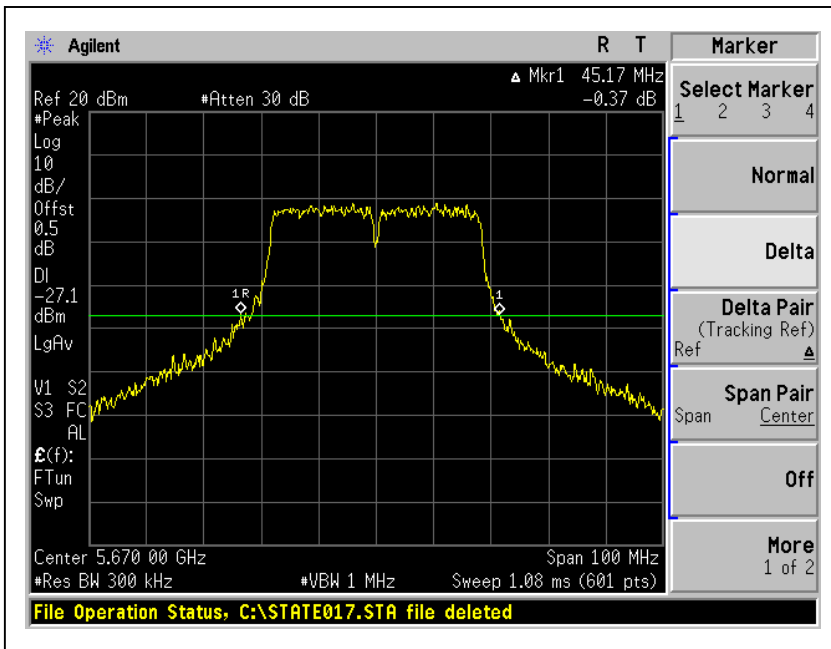
CH7





A D T

CH8



4.3.12 TEST RESULTS – ANTENNA 12

802.11a OFDM MODULATION:

| | | | |
|------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 6Mbps |
| INPUT POWER | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 26deg.C, 63%RH, 965hPa |
| TESTED BY | Wen Yu | | |

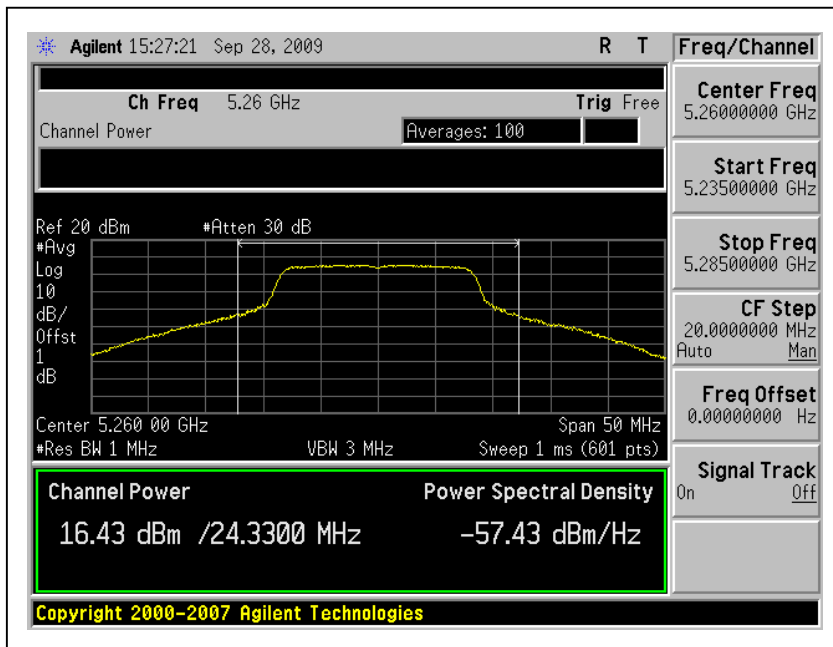
| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER (dBm) | PEAK POWER (mW) | POWER LIMIT (dBm) | 26dBc Occupied Bandwidth (MHz) | PASS/ FAIL |
|---------|-------------------------|------------------|-----------------|-------------------|--------------------------------|------------|
| 5 | 5260 | 16.43 | 43.954 | 24 | 24.33 | PASS |
| 7 | 5300 | 16.11 | 40.832 | 24 | 23.83 | PASS |
| 8 | 5320 | 16.35 | 43.152 | 24 | 25.00 | PASS |
| 9 | 5500 | 16.42 | 43.853 | 24 | 22.83 | PASS |
| 14 | 5600 | 16.05 | 40.272 | 24 | 25.17 | PASS |
| 19 | 5700 | 16.01 | 39.902 | 24 | 22.33 | PASS |

NOTE: The 26dBc Occupied Bandwidth plot, please refer to the following pages.

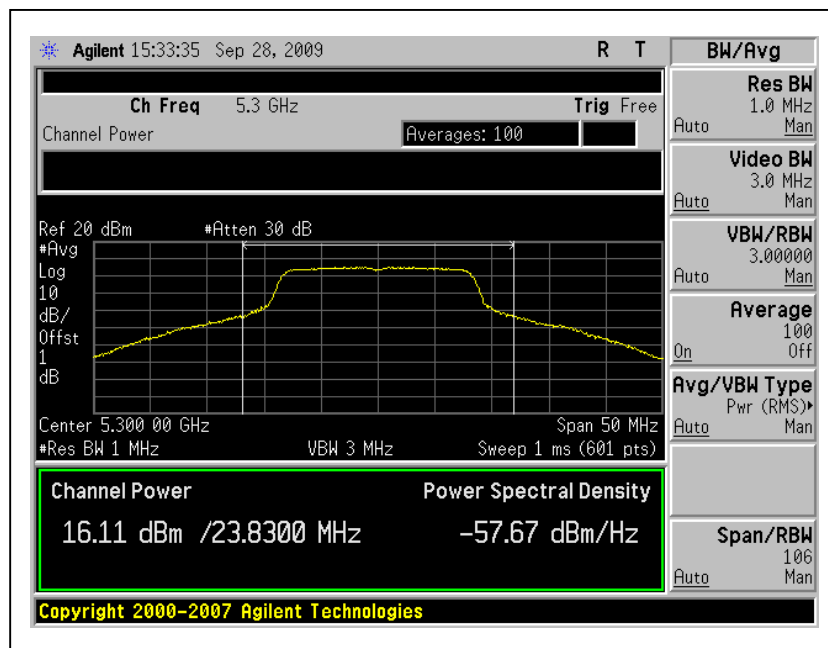


A D T

Peak Power Output: CH5



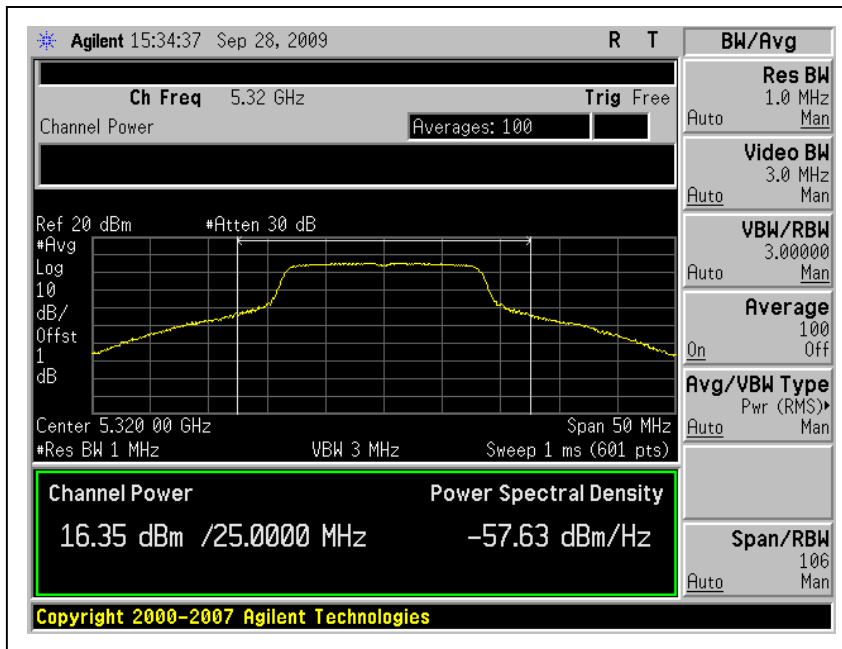
CH7



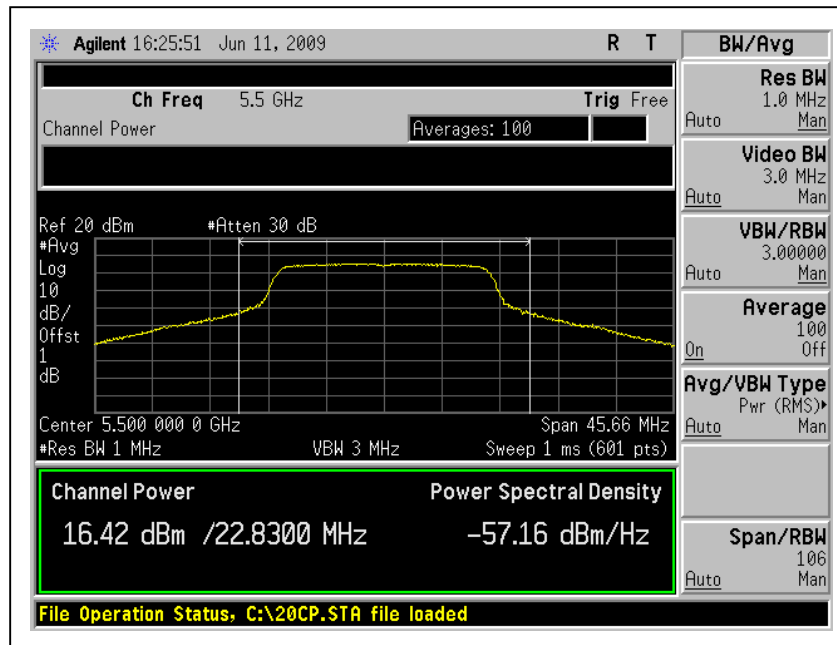


A D T

CH8



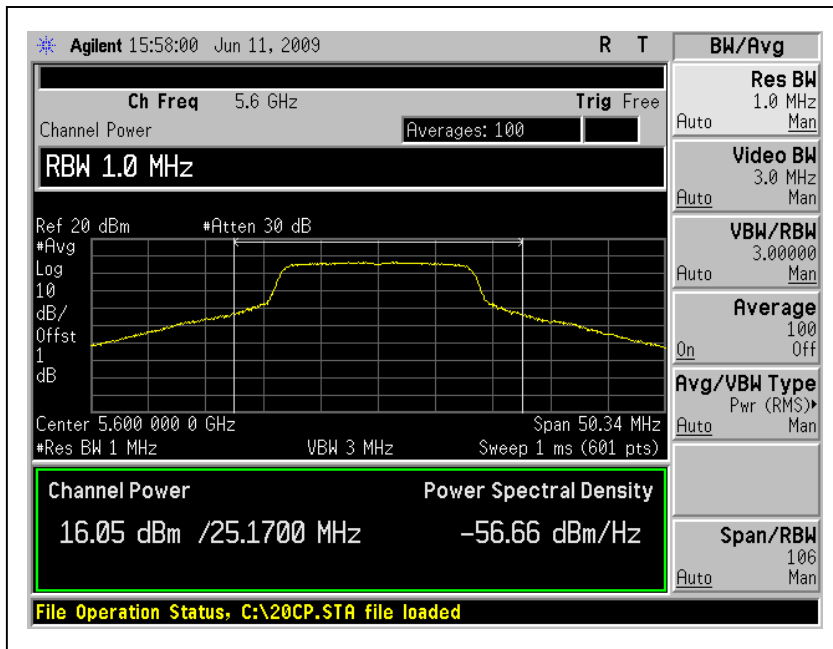
CH9



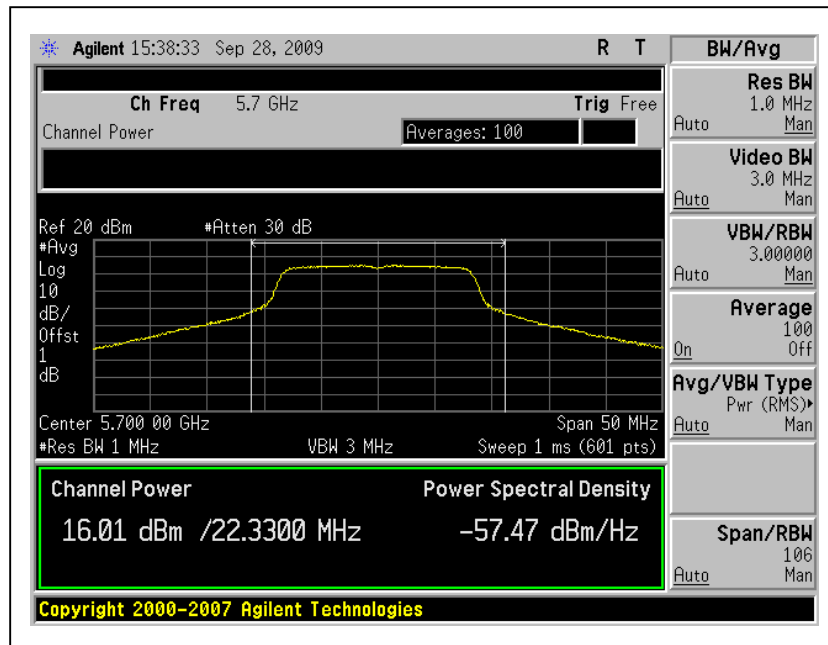


A D T

CH14



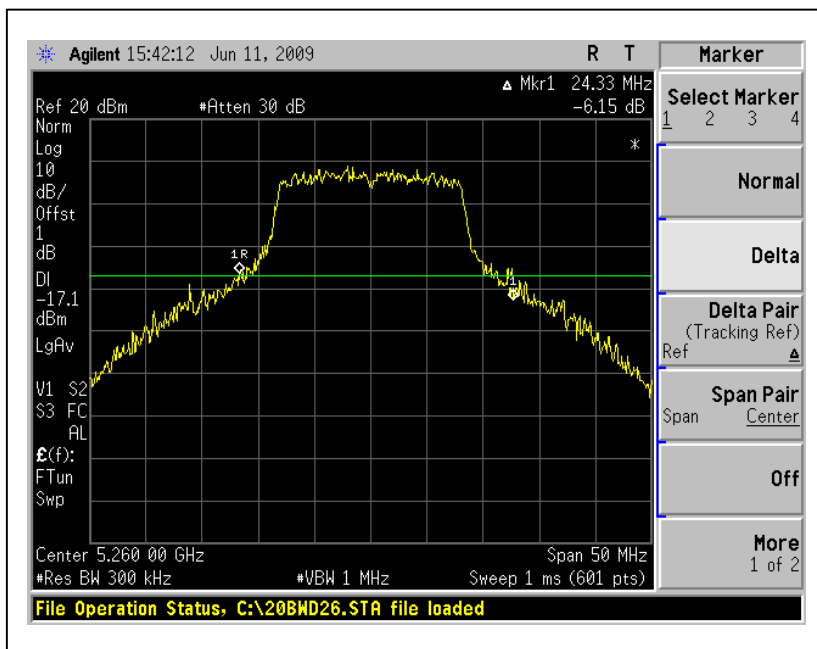
CH19



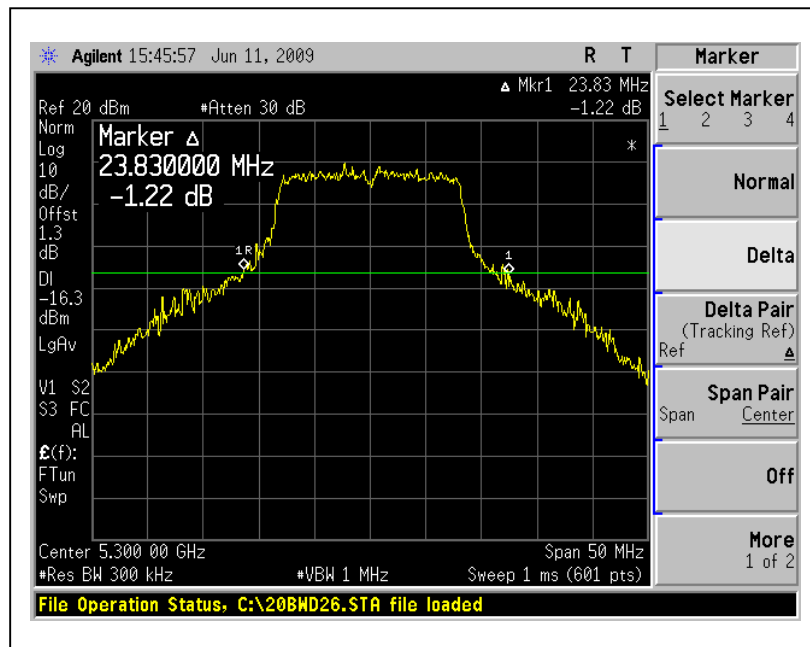


A D T

26dB Occupied Bandwidth: CH5



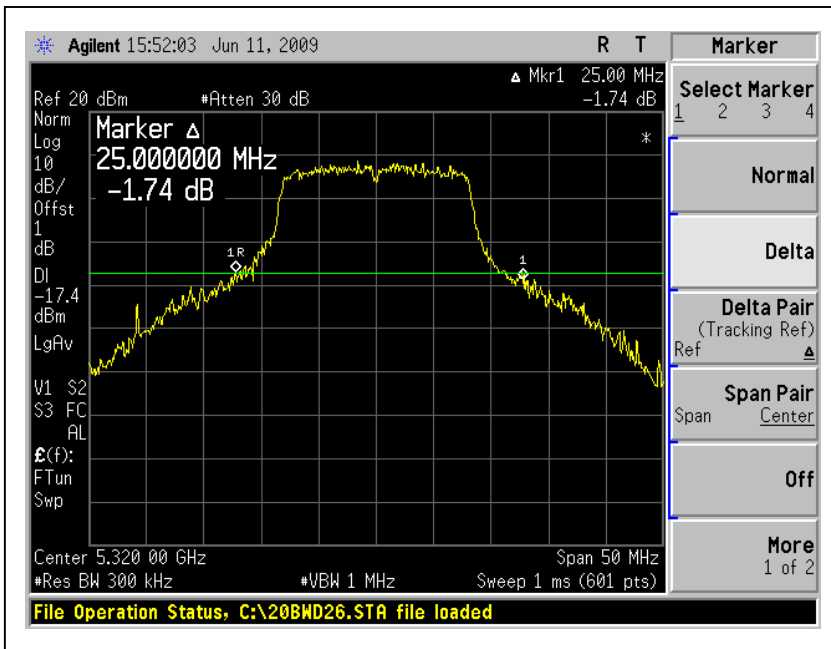
CH7



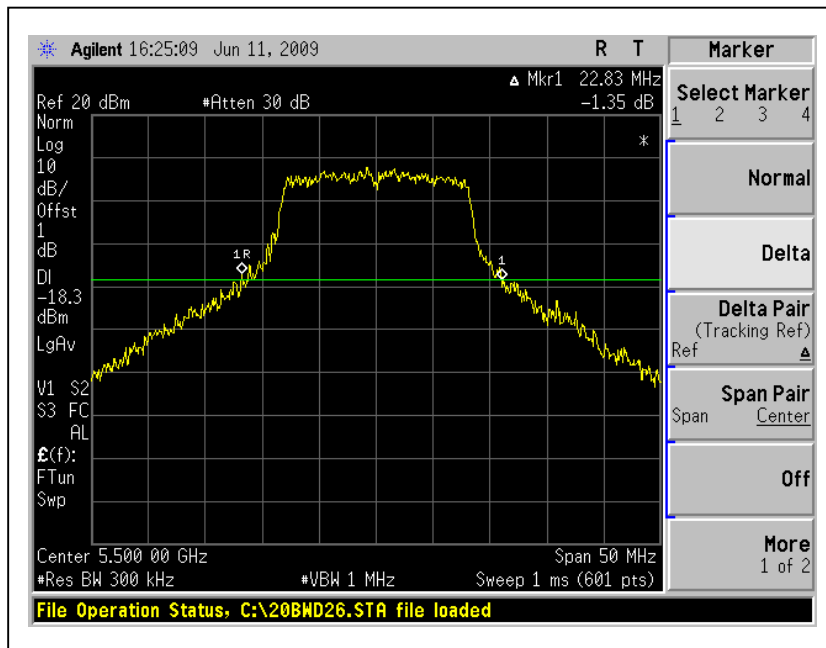


A D T

CH8



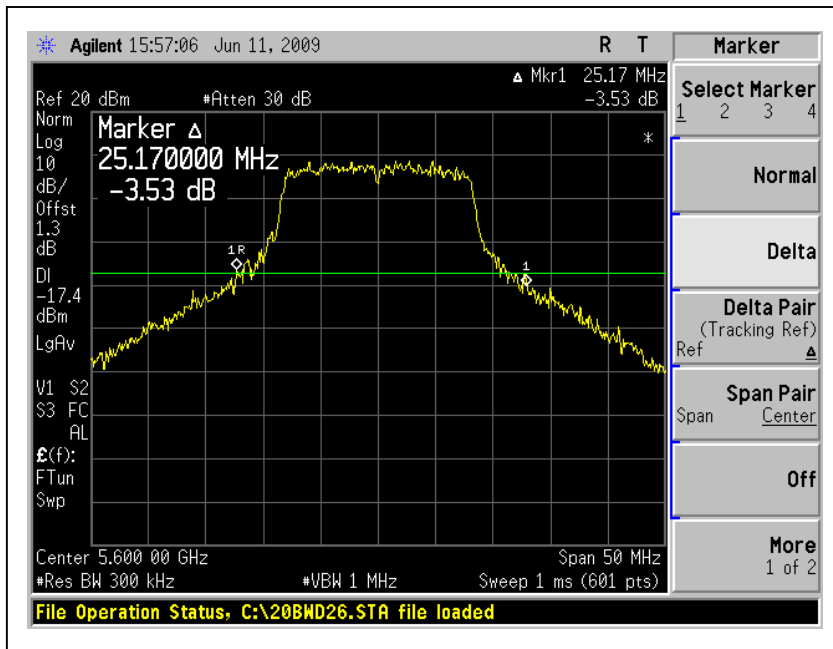
CH9



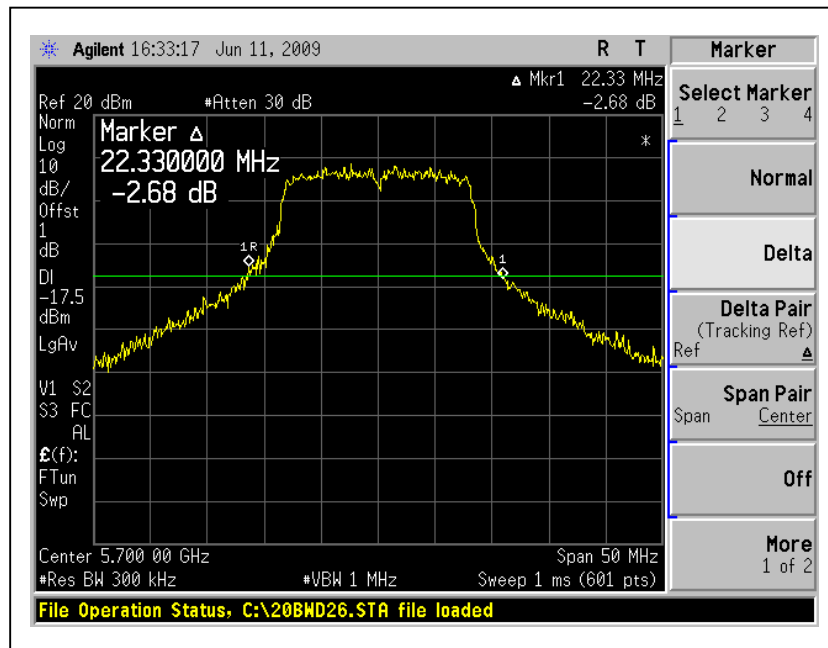


A D T

CH14



CH19





A D T

4.4 PEAK POWER EXCURSION MEASUREMENT

4.4.1 LIMITS OF PEAK POWER EXCURSION MEASUREMENT

| Frequency Band | Limit |
|-------------------|-------|
| 5.15 – 5.25 GHz | 13dB |
| 5.25 – 5.35 GHz | 13dB |
| 5.47 – 5.725GHz | 13dB |
| 5.725 – 5.825 GHz | 13dB |

4.4.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED DATE | CALIBRATED UNTIL |
|----------------------------|-----------|------------|-----------------|------------------|
| R&S SPECTRUM ANALYZER | FSP40 | 100037 | Aug. 03, 2009 | Aug. 02, 2010 |

NOTE:

- 1.The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

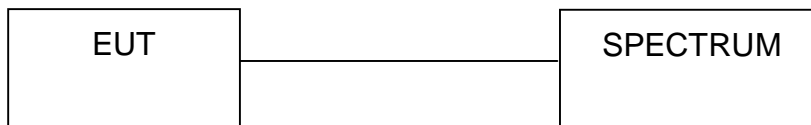
4.4.3 TEST PROCEDURE

1. The transmitter output was connected to the spectrum analyzer.
2. Set the spectrum bandwidth span to view the entire spectrum.
3. Using peak detector and Max-hold function for Trace 1 (RB=1MHz, VB=3MHz) and 2 (RB=1MHz, VB=300KHz).
4. The largest difference between Trace 1 and Trace 2 in any 1MHz band on any frequency was recorded.

4.4.4 DEVIATION FROM TEST STANDARD

No deviation

4.4.5 TEST SETUP



4.4.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.



A D T

4.4.7 TEST RESULTS-ANTENNA 4

802.11a OFDM modulation

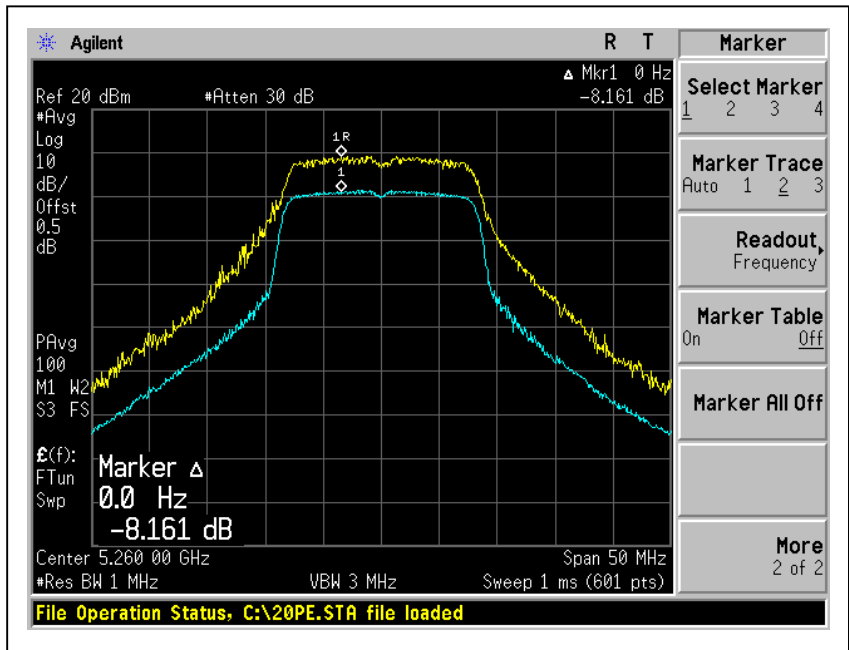
| | | | |
|------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 6Mbps |
| INPUT POWER | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 26deg.C, 63%RH, 965hPa |
| TESTED BY | Wen Yu | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER EXCURSION (dB) | PEAK to AVERAGE EXCURSION LIMIT (dB) | PASS/FAIL |
|----------------|--------------------------------|----------------------------------|---|------------------|
| 5 | 5260 | 8.161 | 13 | PASS |
| 7 | 5300 | 8.436 | 13 | PASS |
| 8 | 5320 | 8.864 | 13 | PASS |
| 9 | 5500 | 8.422 | 13 | PASS |
| 14 | 5600 | 8.242 | 13 | PASS |
| 19 | 5700 | 8.663 | 13 | PASS |

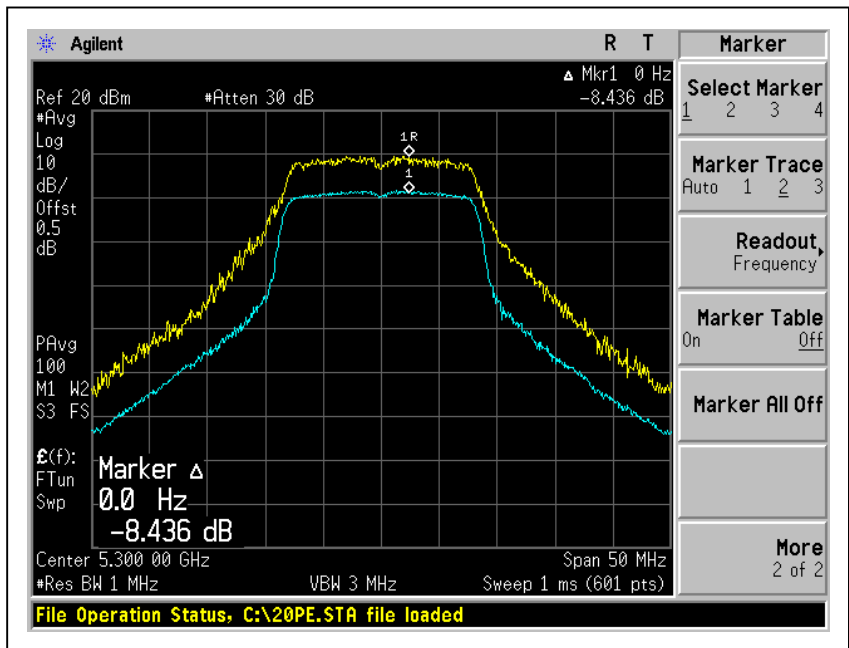


A D T

CH5



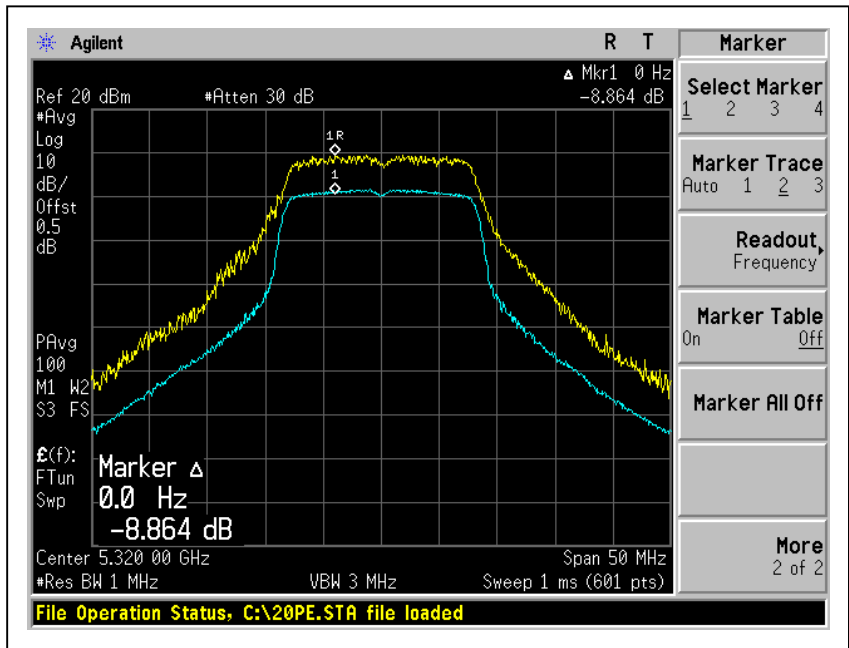
CH7



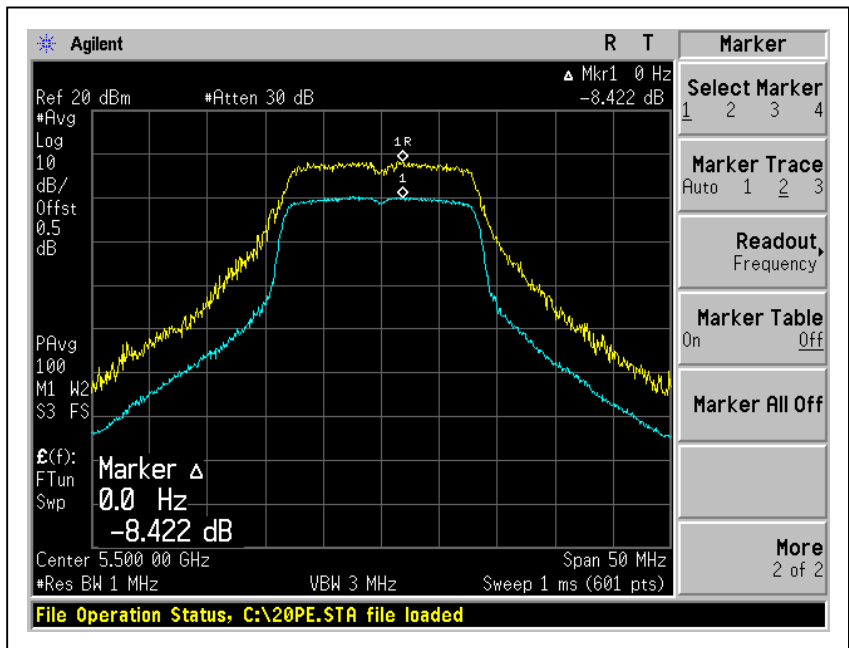


A D T

CH8



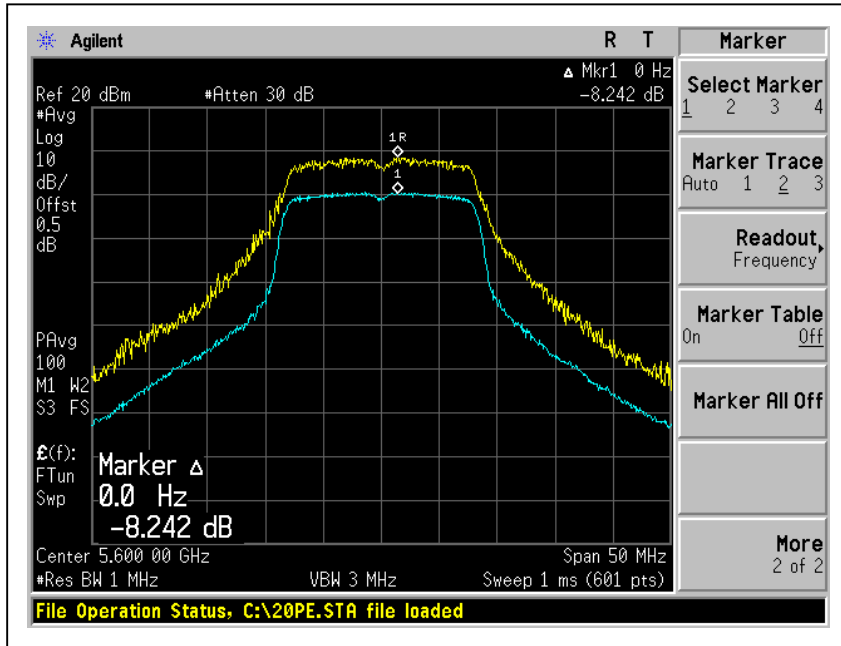
CH9



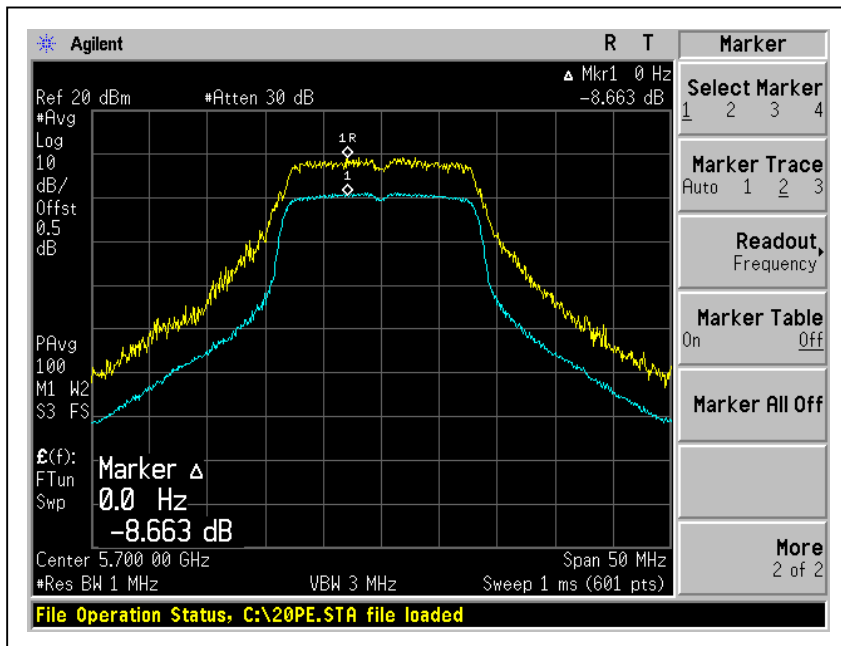


A D T

CH14



CH19





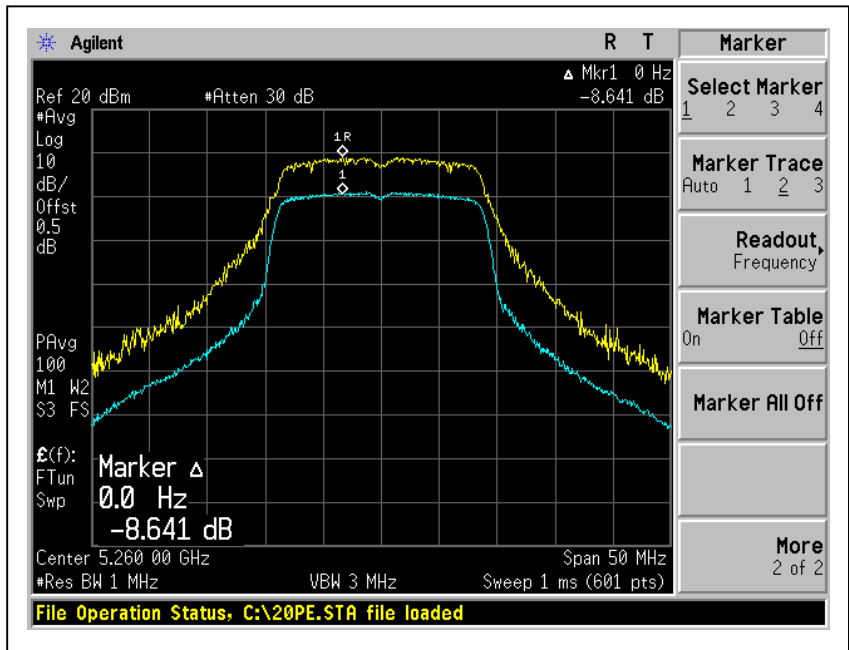
A D T

DRAFT 802.11n (20MHz) OFDM MODULATION:

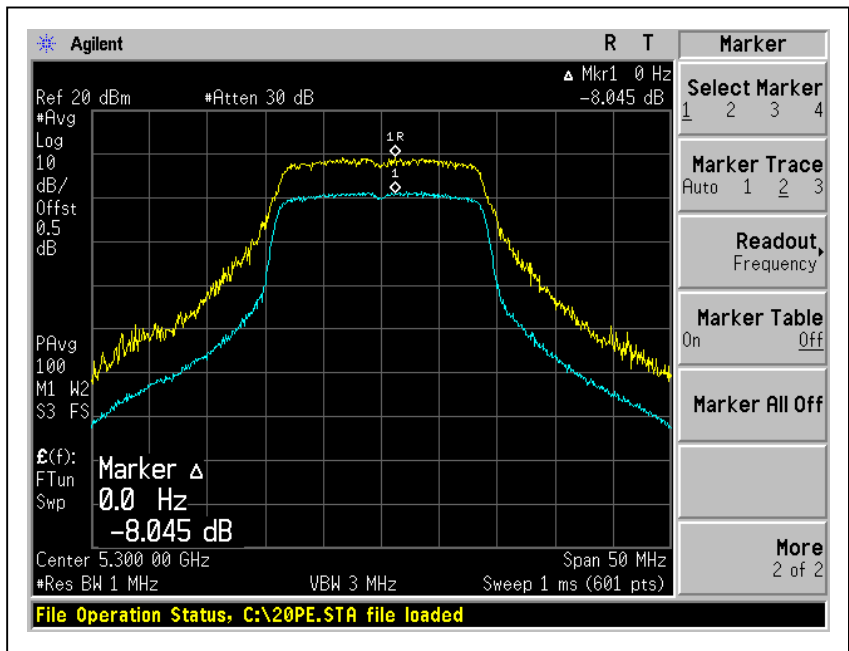
| | | | |
|------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 6.5Mbps |
| INPUT POWER | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 23deg.C, 54%RH, 965hPa |
| TESTED BY | Wen Yu | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER EXCURSION (dB) | PEAK to AVERAGE EXCURSION LIMIT (dB) | PASS/FAIL |
|----------------|--------------------------------|----------------------------------|---|------------------|
| 5 | 5260 | 8.641 | 13 | PASS |
| 7 | 5300 | 8.045 | 13 | PASS |
| 8 | 5320 | 8.343 | 13 | PASS |
| 9 | 5500 | 9.238 | 13 | PASS |
| 14 | 5600 | 8.303 | 13 | PASS |
| 19 | 5700 | 9.641 | 13 | PASS |

CH5



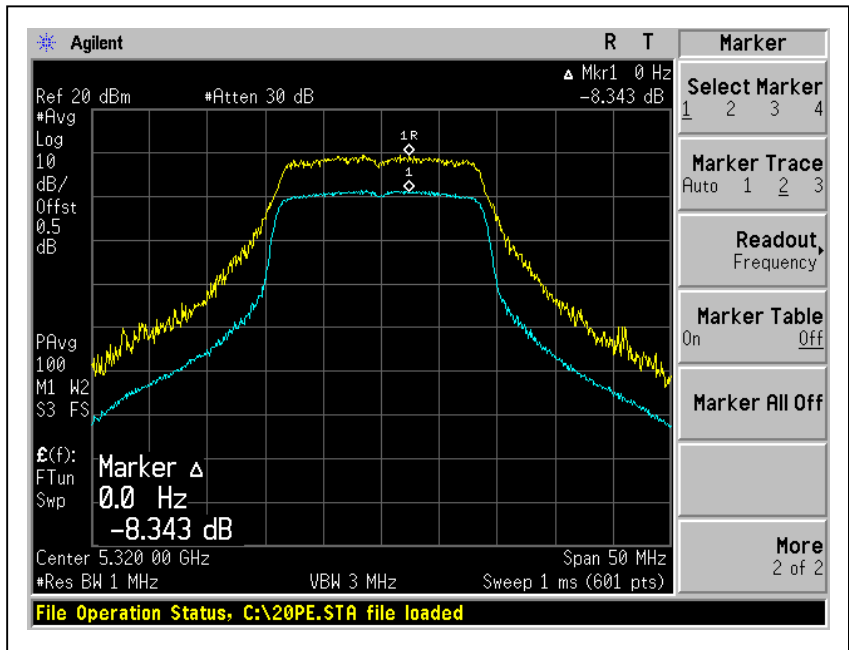
CH7



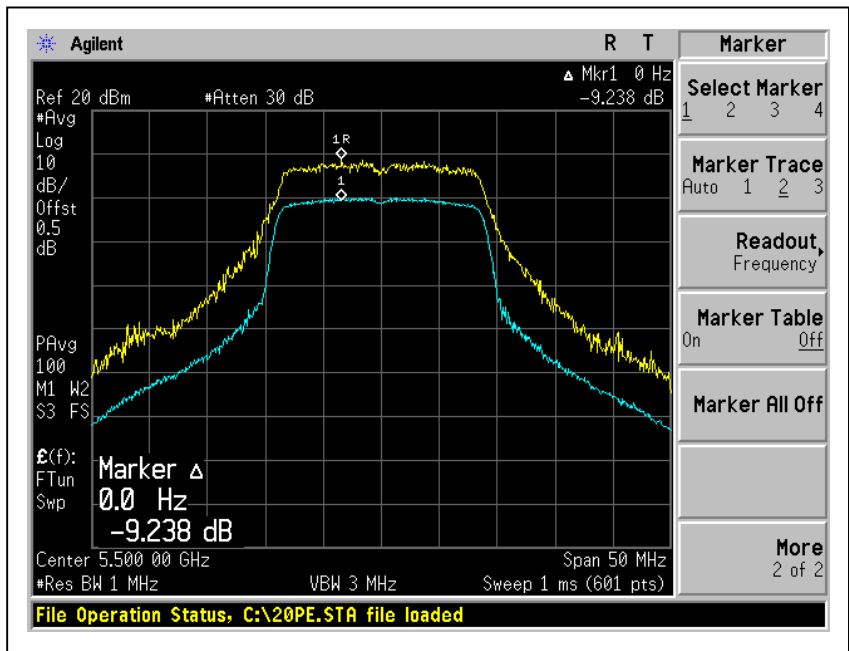


A D T

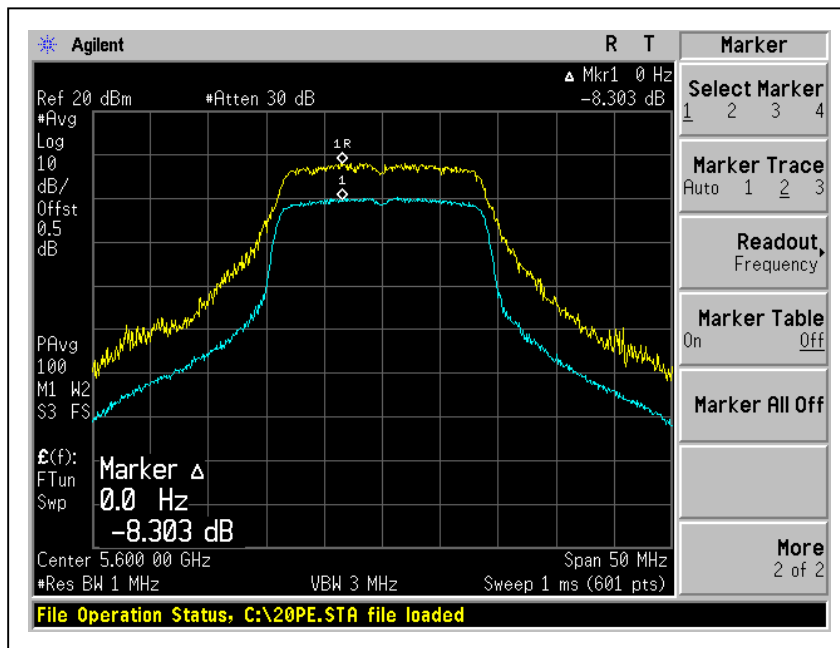
CH8



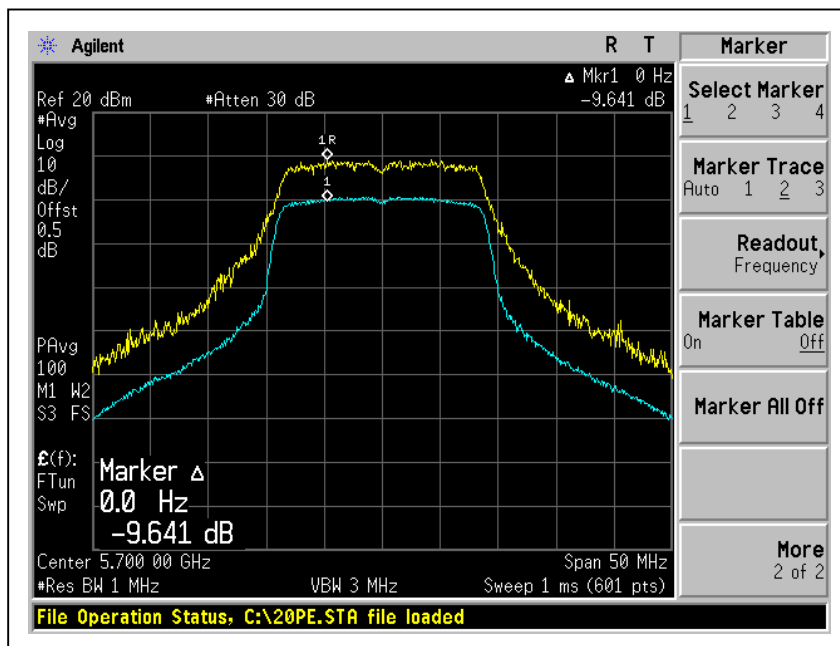
CH9



CH14



CH19





A D T

DRAFT 802.11n (40MHz) OFDM MODULATION:

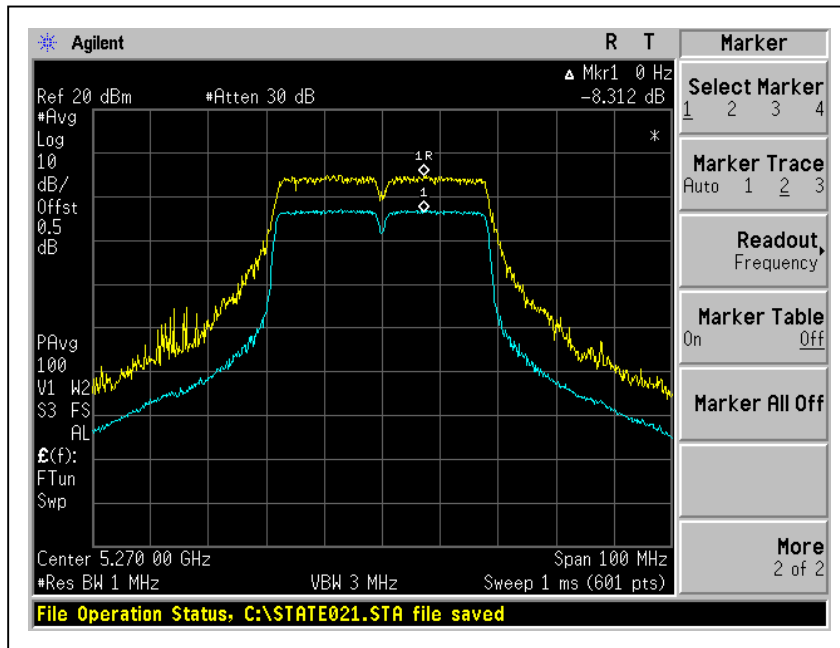
| | | | |
|------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 13.5Mbps |
| INPUT POWER | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 26deg.C, 63%RH, 965hPa |
| TESTED BY | Wen Yu | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER EXCURSION (dB) | PEAK to AVERAGE EXCURSION LIMIT (dB) | PASS/FAIL |
|----------------|--------------------------------|----------------------------------|---|------------------|
| 3 | 5270 | 8.312 | 13 | PASS |
| 4 | 5310 | 8.199 | 13 | PASS |
| 5 | 5510 | 8.290 | 13 | PASS |
| 7 | 5590 | 8.610 | 13 | PASS |
| 9 | 5670 | 8.964 | 13 | PASS |

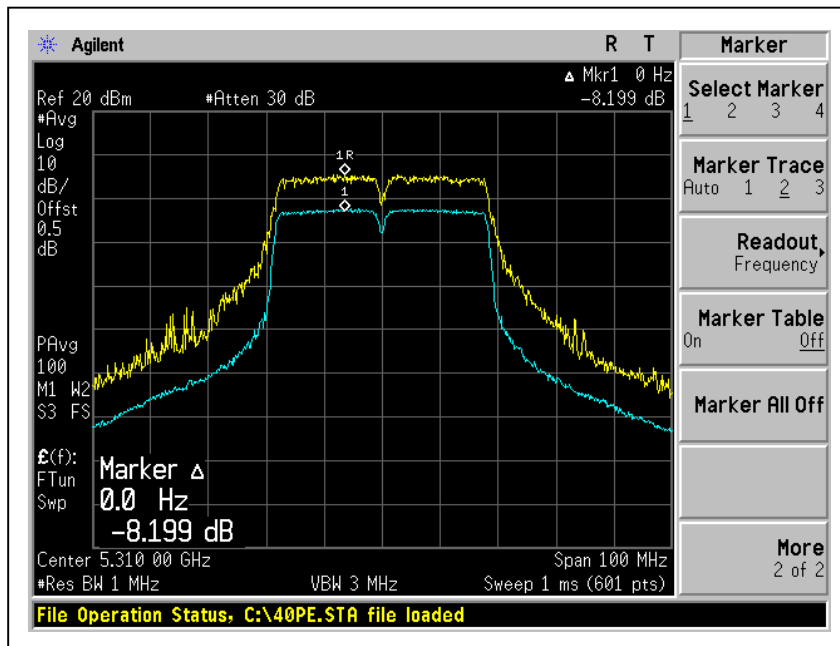


A D T

CH3



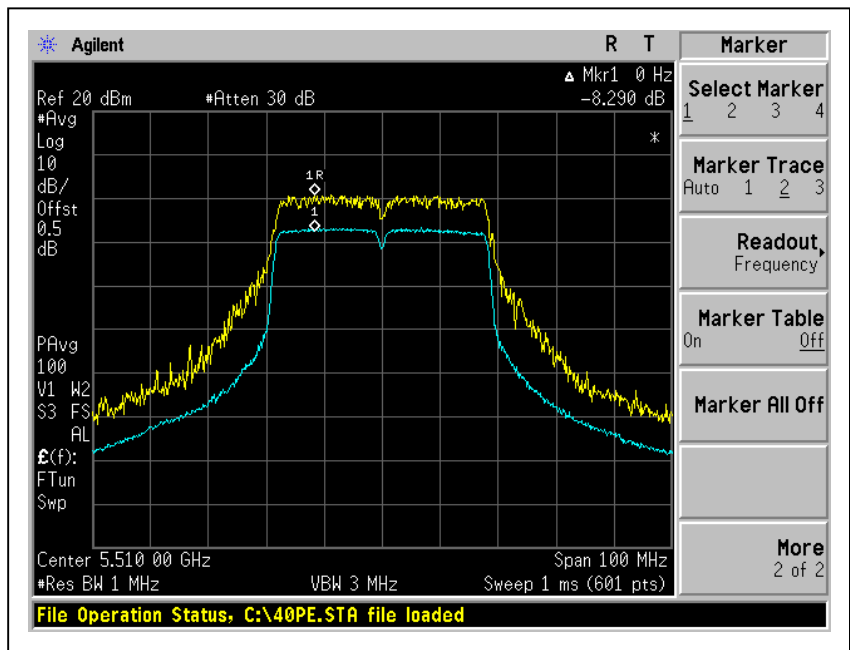
CH4



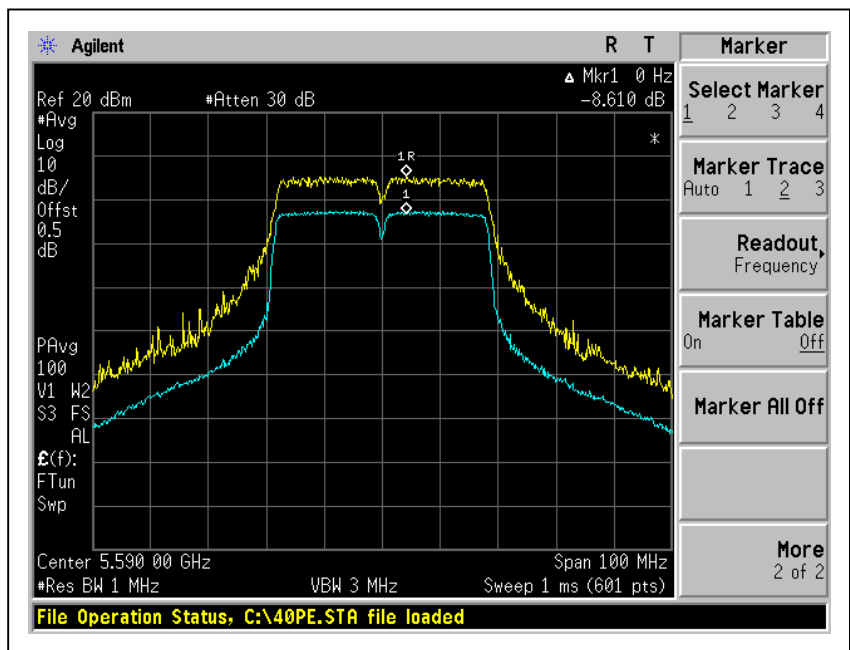


A D T

CH5



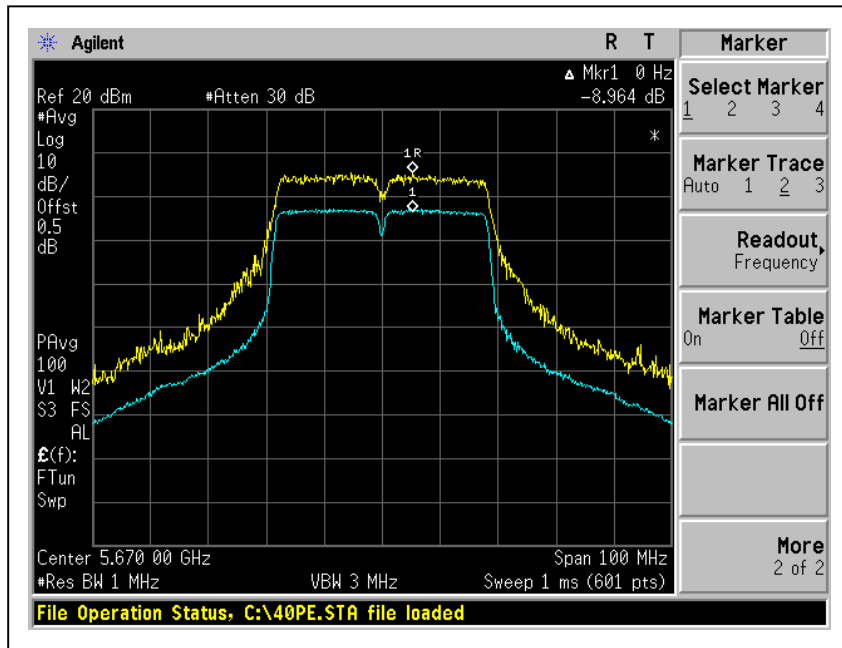
CH7





A D T

CH9





A D T

4.4.8 TEST RESULTS-ANTENNA 5

802.11a OFDM modulation

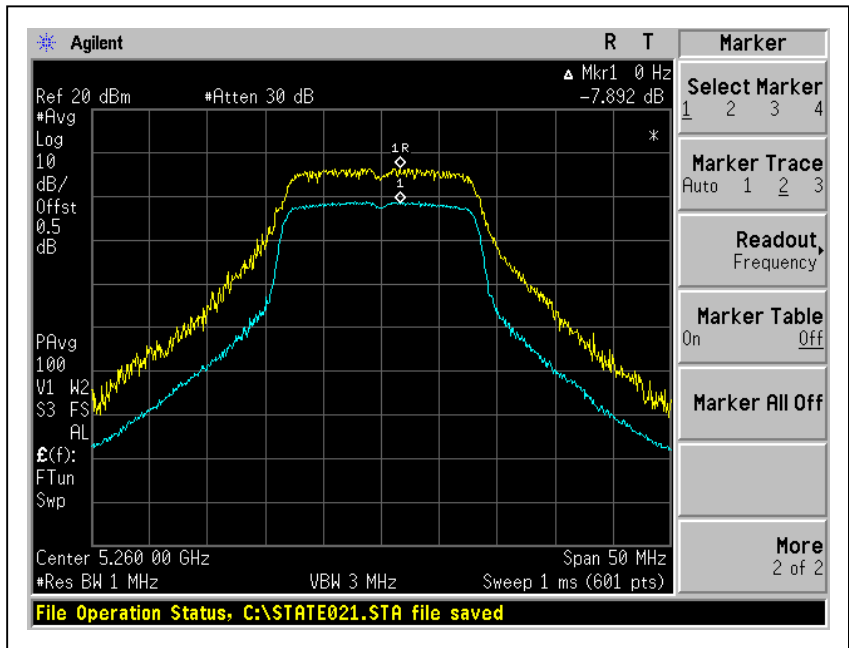
| | | | |
|------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 6Mbps |
| INPUT POWER | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 26deg.C, 63%RH, 965hPa |
| TESTED BY | Wen Yu | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER EXCURSION (dB) | PEAK to AVERAGE EXCURSION LIMIT (dB) | PASS/FAIL |
|----------------|--------------------------------|----------------------------------|---|------------------|
| 5 | 5260 | 7.892 | 13 | PASS |
| 7 | 5300 | 8.311 | 13 | PASS |
| 8 | 5320 | 8.206 | 13 | PASS |
| 9 | 5500 | 8.473 | 13 | PASS |
| 14 | 5600 | 7.899 | 13 | PASS |
| 19 | 5700 | 8.202 | 13 | PASS |

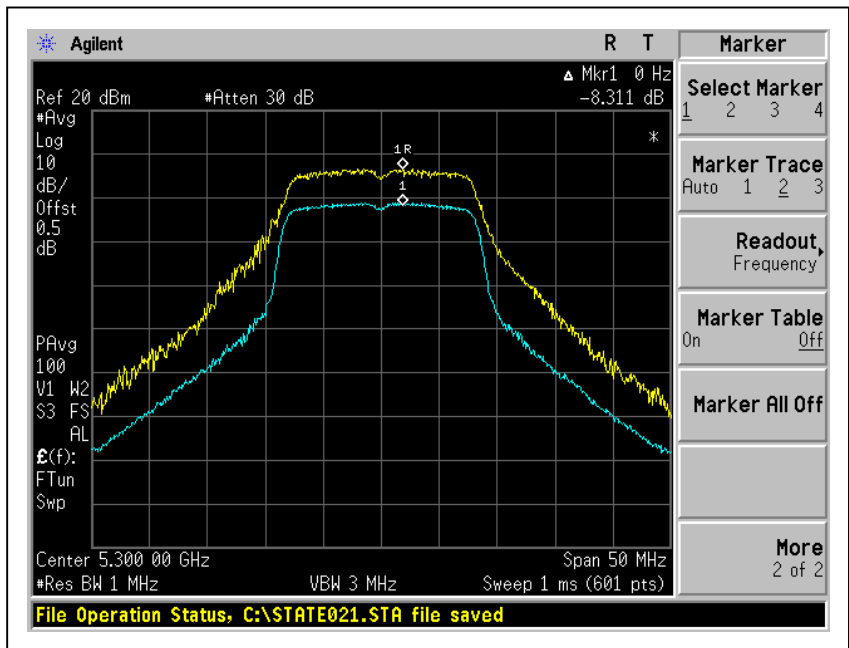


A D T

CH5



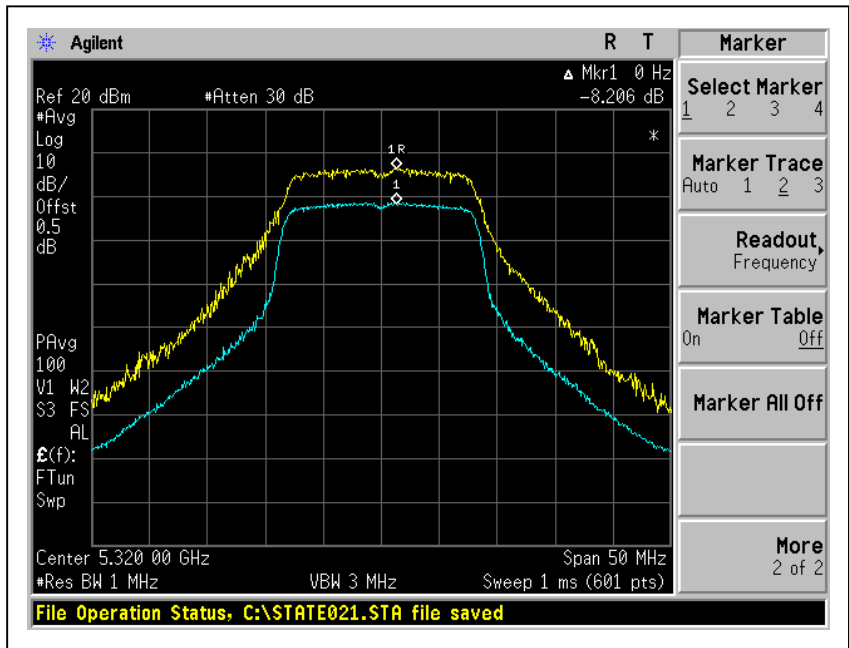
CH7



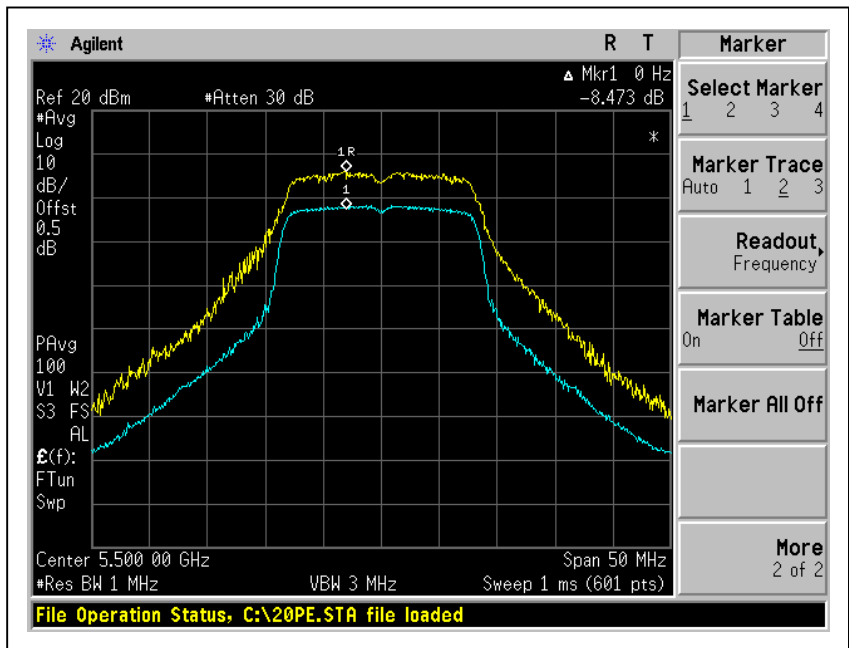


A D T

CH8



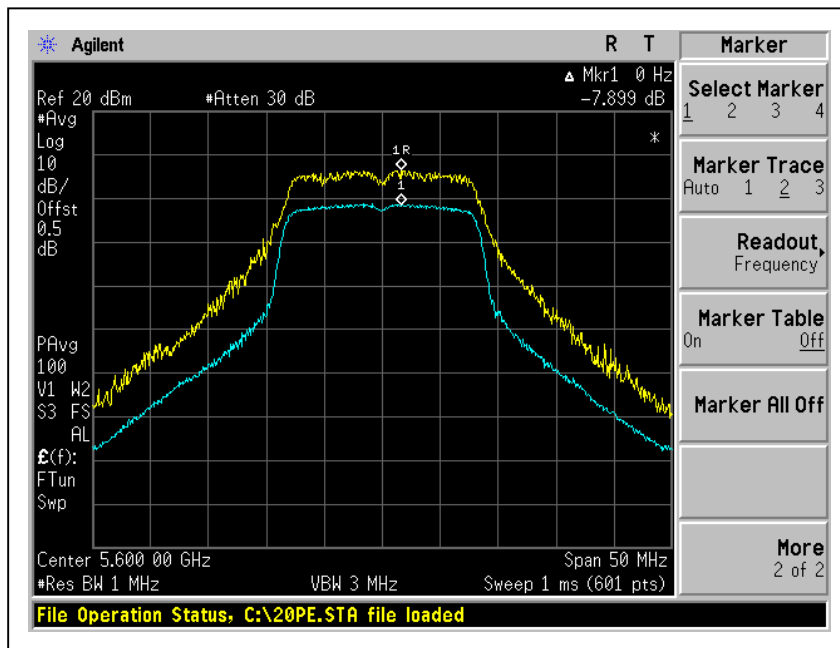
CH9



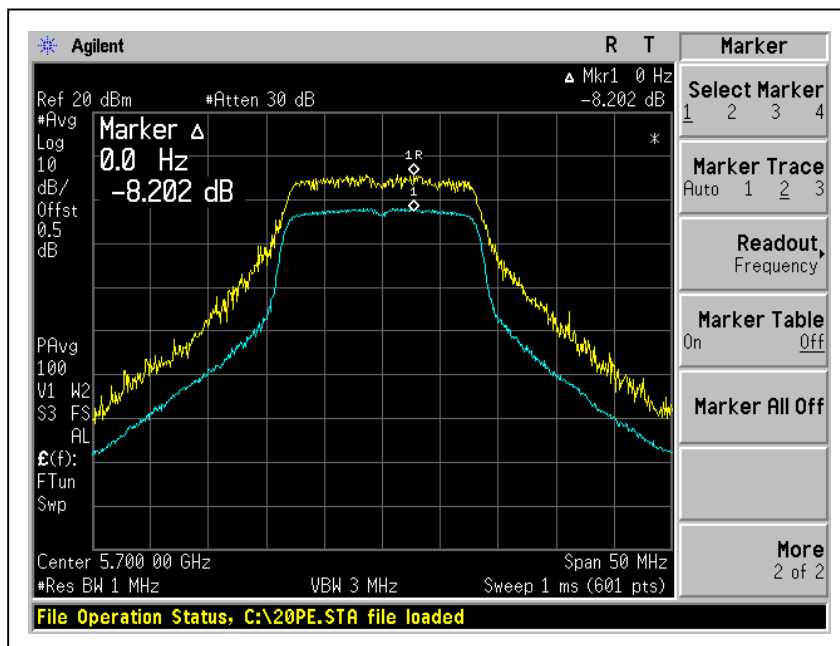


A D T

CH14



CH19





A D T

DRAFT 802.11n (20MHz) OFDM MODULATION:

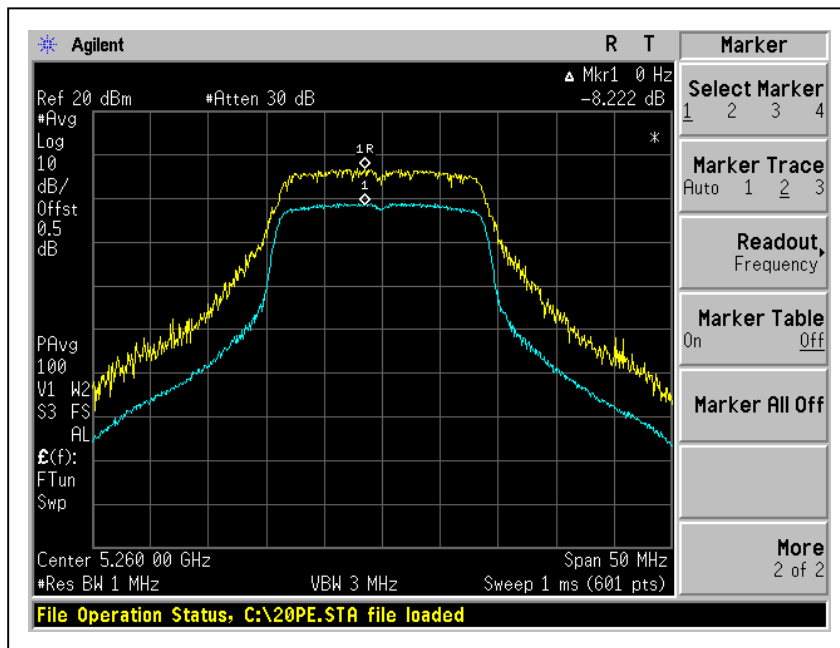
| | | | |
|------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 6.5Mbps |
| INPUT POWER | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 23deg.C, 54%RH, 965hPa |
| TESTED BY | Wen Yu | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER EXCURSION (dB) | PEAK to AVERAGE EXCURSION LIMIT (dB) | PASS/FAIL |
|----------------|--------------------------------|----------------------------------|---|------------------|
| 5 | 5260 | 8.222 | 13 | PASS |
| 7 | 5300 | 8.391 | 13 | PASS |
| 8 | 5320 | 8.218 | 13 | PASS |
| 9 | 5500 | 8.272 | 13 | PASS |
| 14 | 5600 | 8.318 | 13 | PASS |
| 19 | 5700 | 8.309 | 13 | PASS |

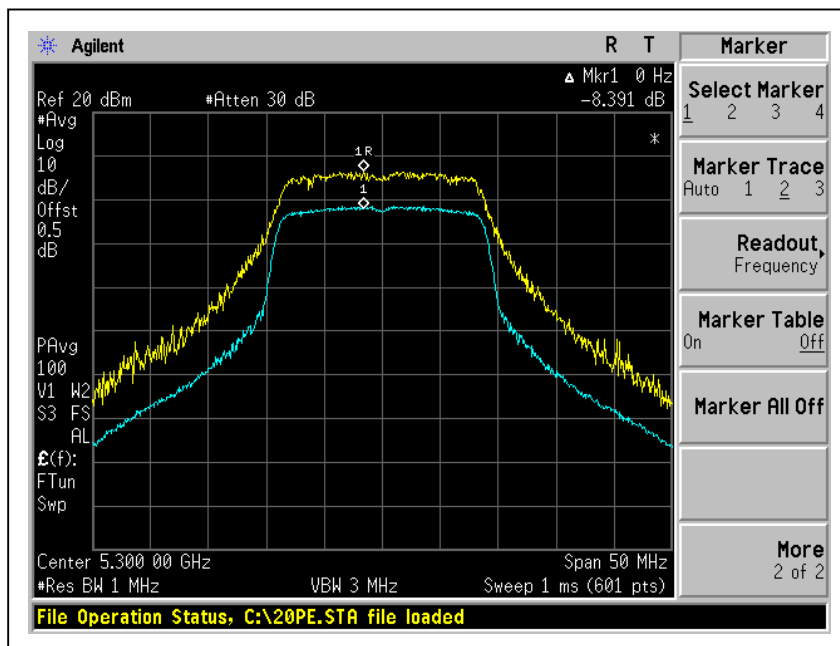


A D T

CH5



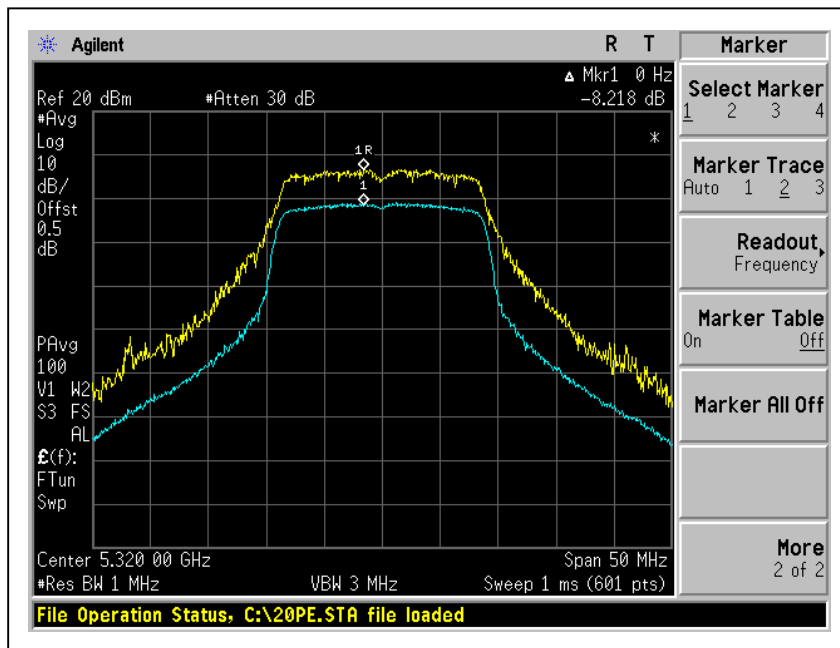
CH7



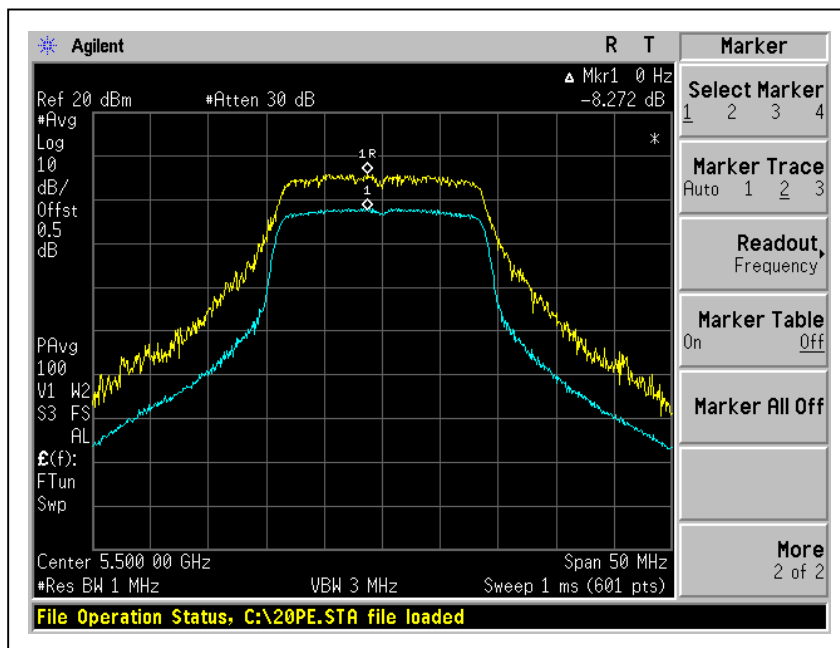


A D T

CH8



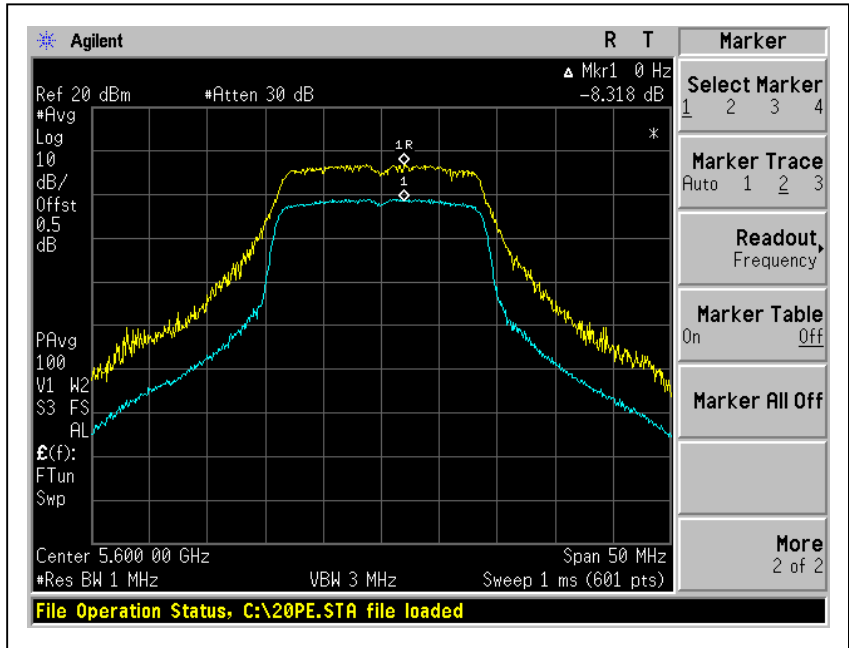
CH9



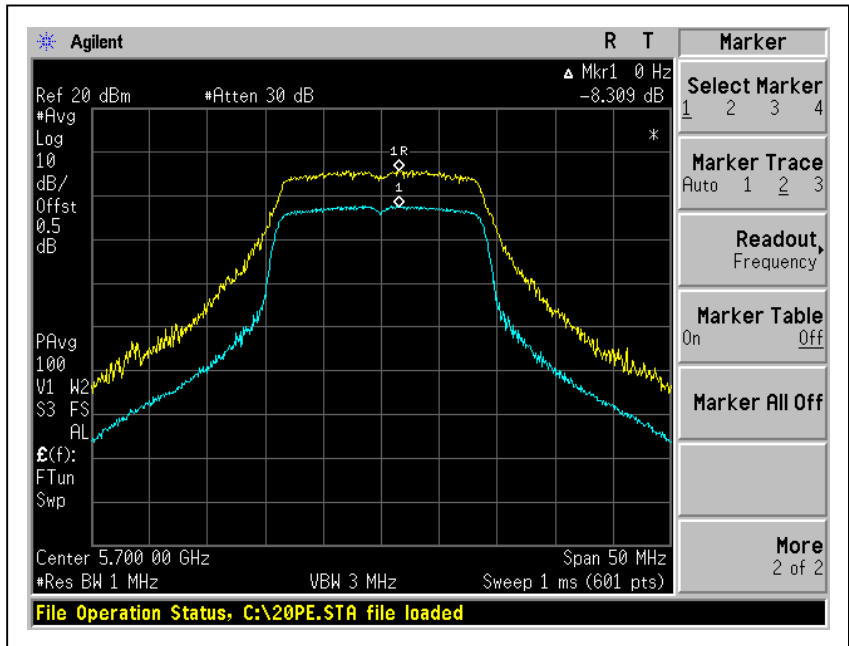


A D T

CH14



CH19





A D T

DRAFT 802.11n (40MHz) OFDM MODULATION:

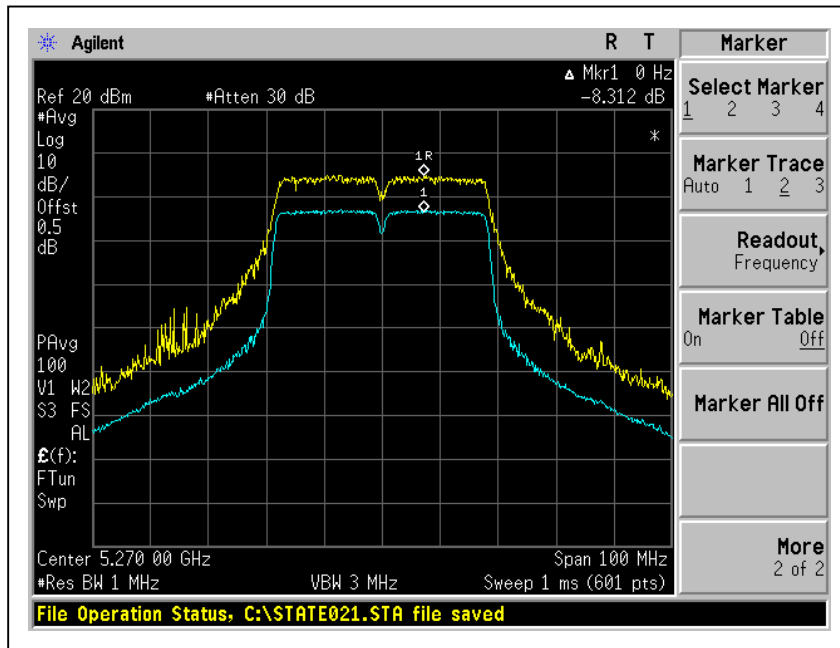
| | | | |
|------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 13.5Mbps |
| INPUT POWER | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 26deg.C, 63%RH, 965hPa |
| TESTED BY | Wen Yu | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER EXCURSION (dB) | PEAK to AVERAGE EXCURSION LIMIT (dB) | PASS/FAIL |
|----------------|--------------------------------|----------------------------------|---|------------------|
| 3 | 5270 | 8.312 | 13 | PASS |
| 4 | 5310 | 8.342 | 13 | PASS |
| 5 | 5510 | 8.214 | 13 | PASS |
| 7 | 5590 | 8.610 | 13 | PASS |
| 9 | 5670 | 8.964 | 13 | PASS |

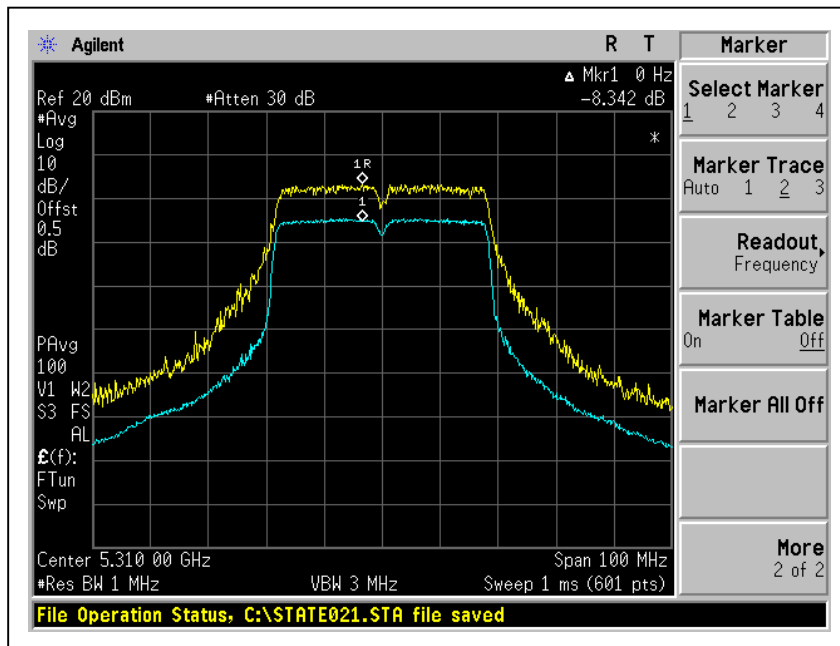


A D T

CH3



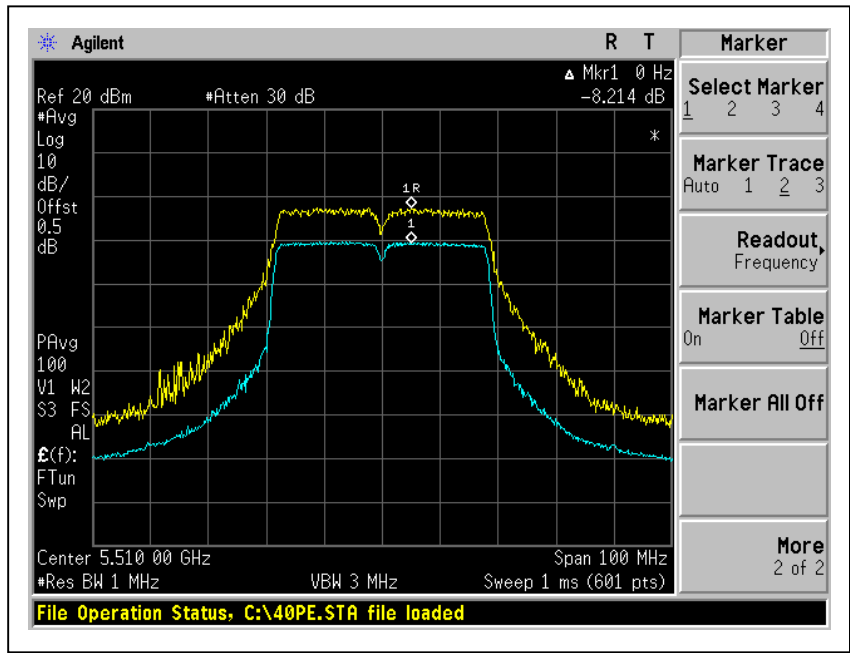
CH4



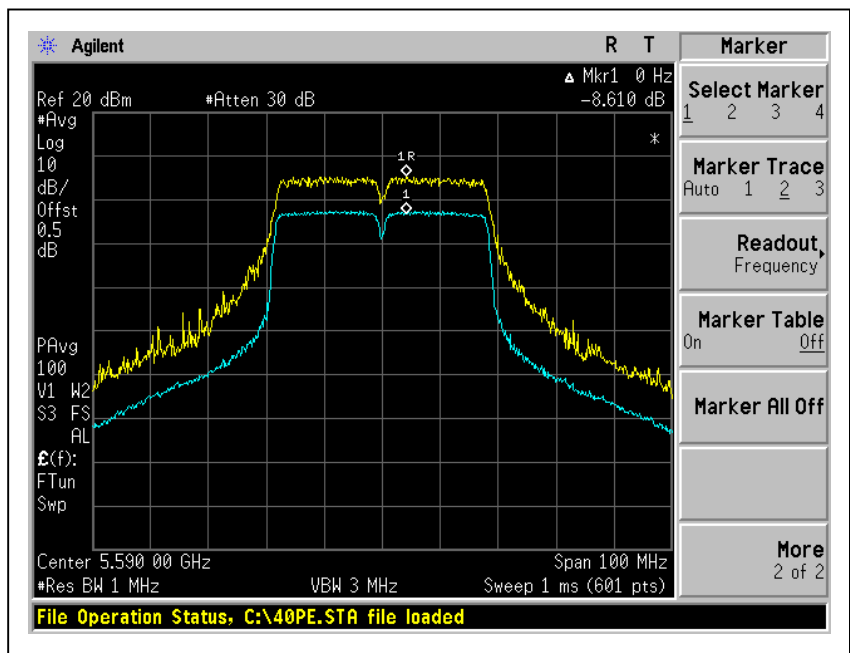


A D T

CH5



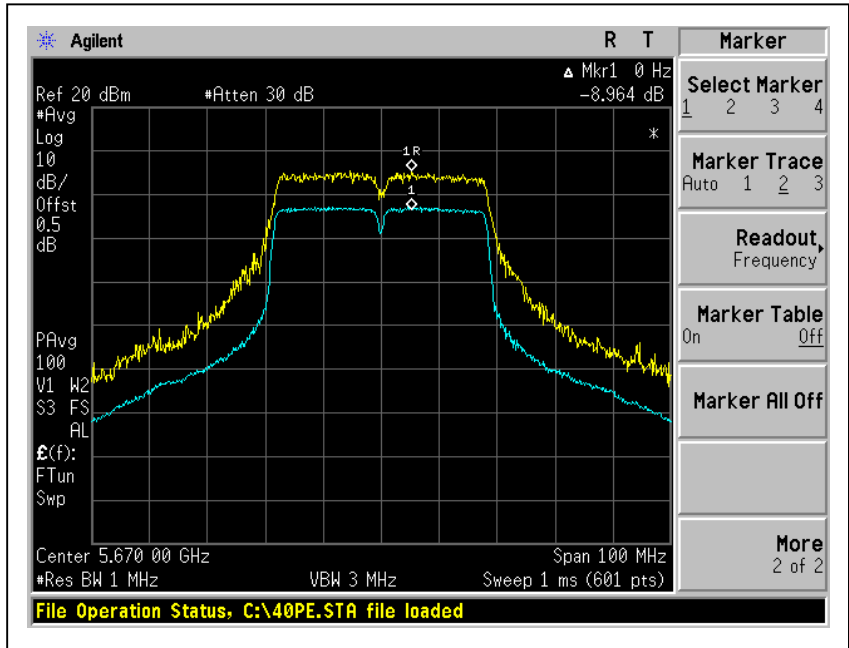
CH7





A D T

CH9





A D T

4.4.9 TEST RESULTS-ANTENNA 7

802.11a OFDM modulation

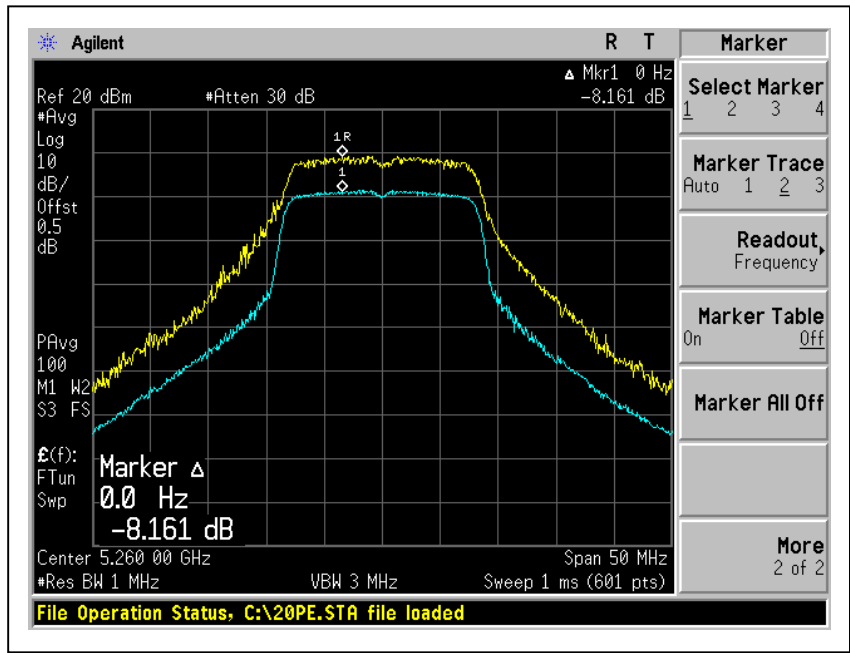
| | | | |
|------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 6Mbps |
| INPUT POWER | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 26deg.C, 63%RH, 965hPa |
| TESTED BY | Wen Yu | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER EXCURSION (dB) | PEAK to AVERAGE EXCURSION LIMIT (dB) | PASS/FAIL |
|----------------|--------------------------------|----------------------------------|---|------------------|
| 5 | 5260 | 8.161 | 13 | PASS |
| 7 | 5300 | 8.436 | 13 | PASS |
| 8 | 5320 | 8.864 | 13 | PASS |
| 9 | 5500 | 8.422 | 13 | PASS |
| 14 | 5600 | 8.242 | 13 | PASS |
| 19 | 5700 | 8.663 | 13 | PASS |

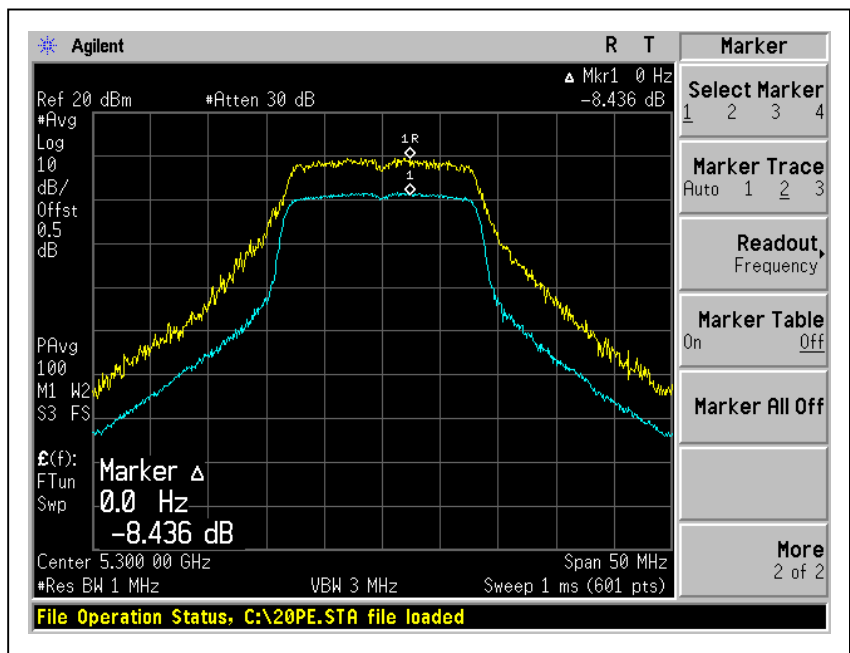


A D T

CH5



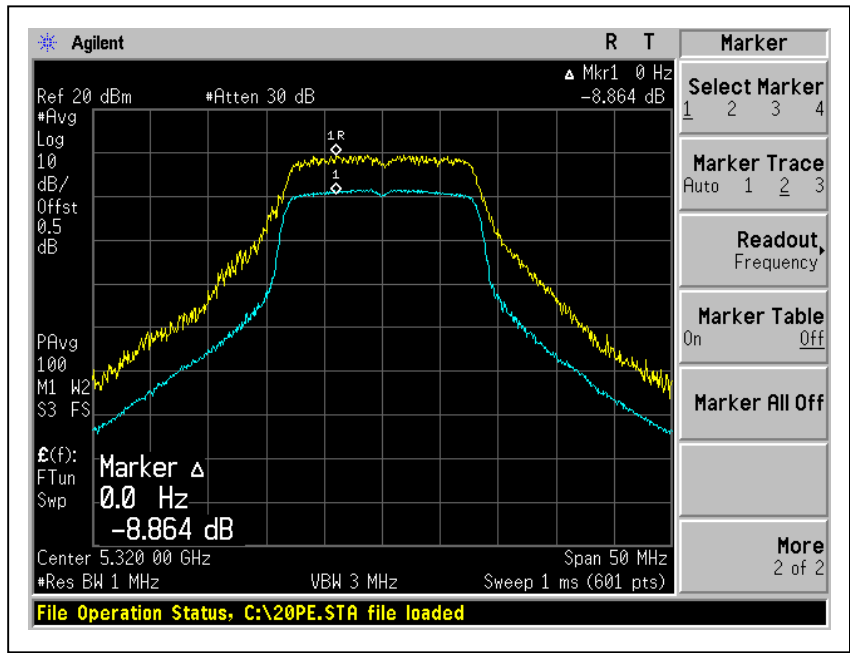
CH7



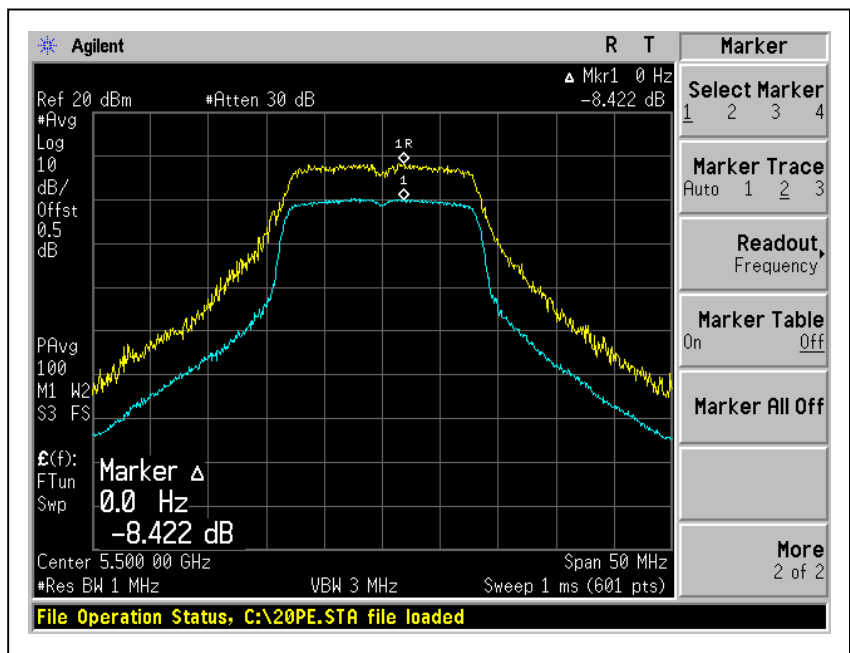


A D T

CH8



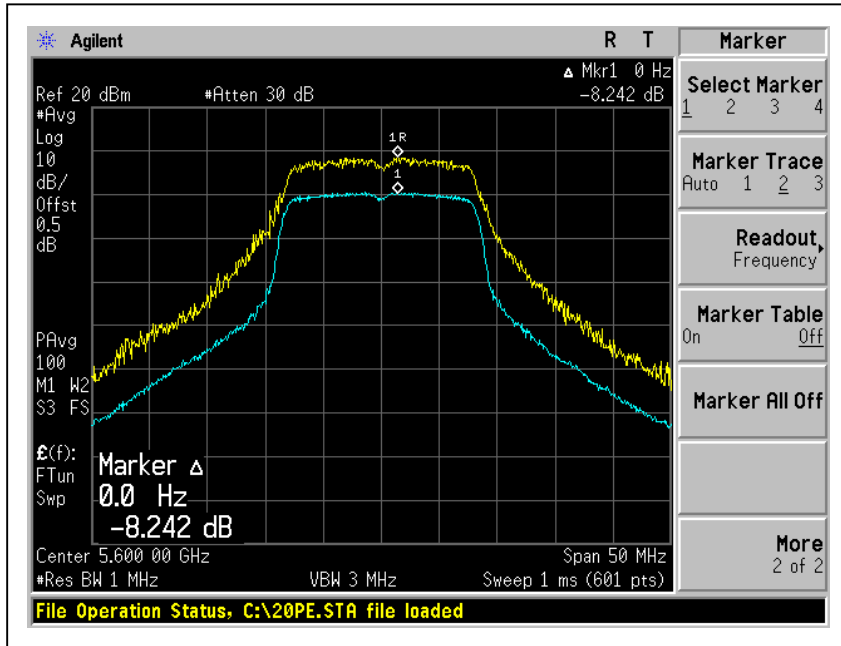
CH9



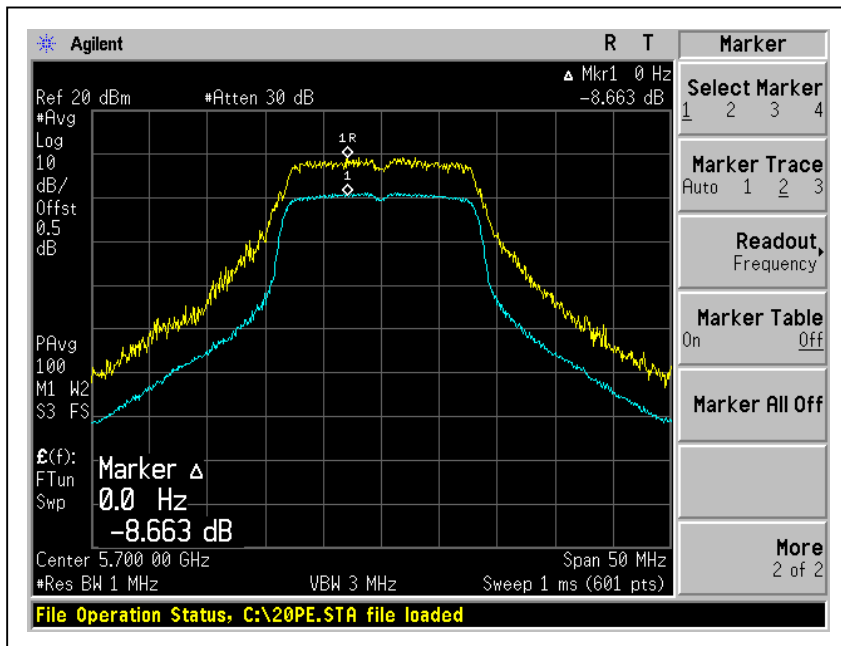


A D T

CH14



CH19





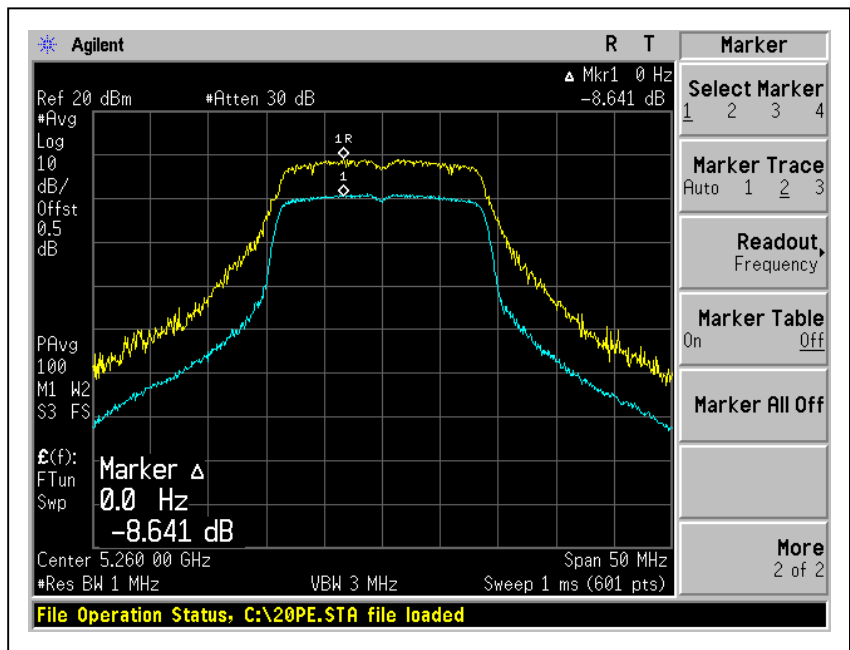
A D T

DRAFT 802.11n (20MHz) OFDM MODULATION:

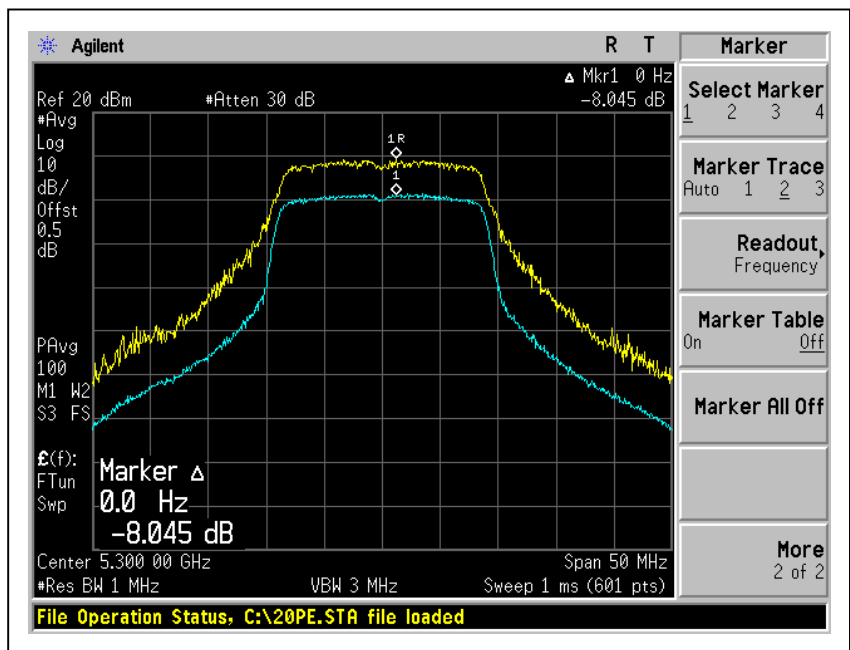
| | | | |
|------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 6.5Mbps |
| INPUT POWER | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 23deg.C, 54%RH, 965hPa |
| TESTED BY | Wen Yu | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER EXCURSION (dB) | PEAK to AVERAGE EXCURSION LIMIT (dB) | PASS/FAIL |
|----------------|--------------------------------|----------------------------------|---|------------------|
| 5 | 5260 | 8.641 | 13 | PASS |
| 7 | 5300 | 8.045 | 13 | PASS |
| 8 | 5320 | 8.343 | 13 | PASS |
| 9 | 5500 | 9.238 | 13 | PASS |
| 14 | 5600 | 8.303 | 13 | PASS |
| 19 | 5700 | 9.641 | 13 | PASS |

CH5



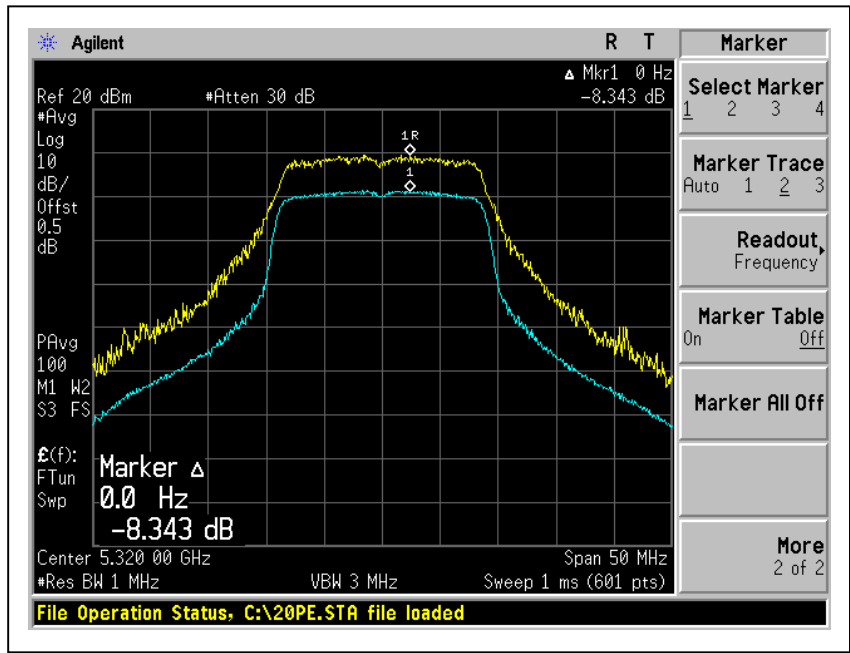
CH7



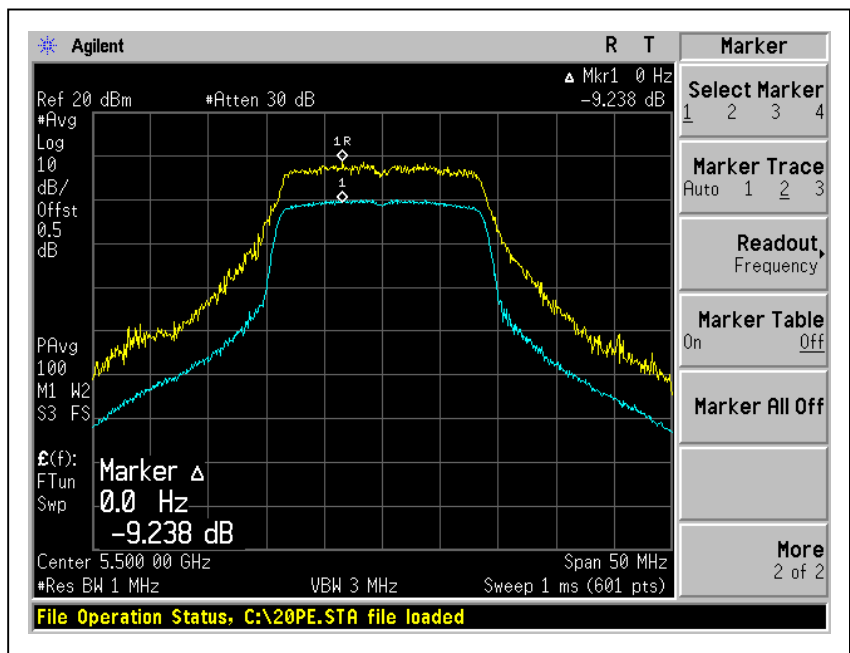


A D T

CH8



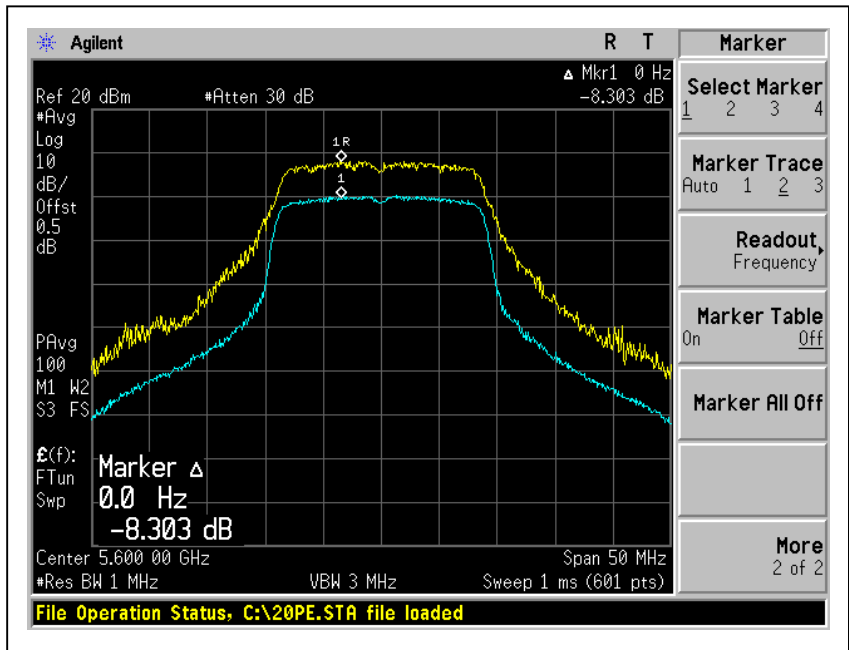
CH9



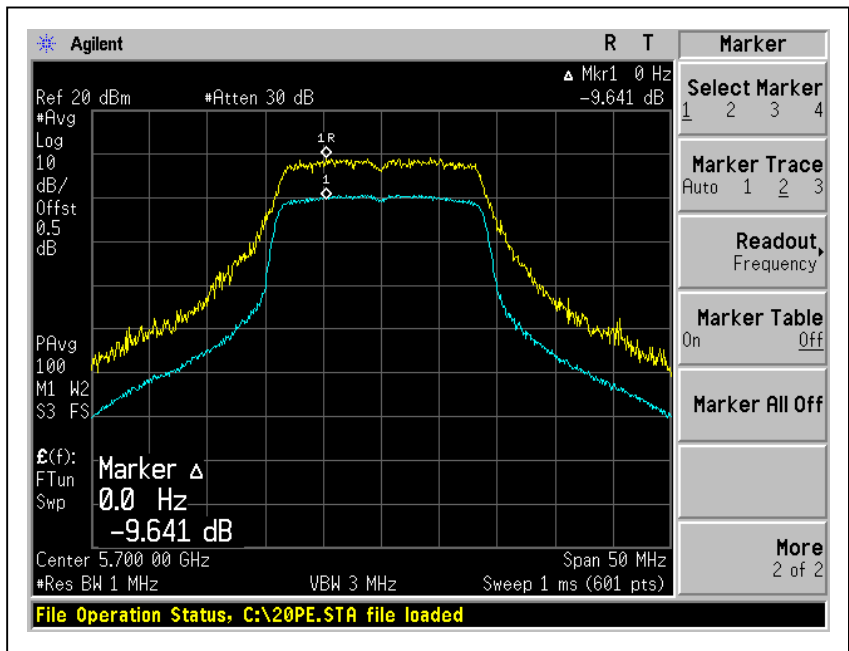


A D T

CH14



CH19





A D T

DRAFT 802.11n (40MHz) OFDM MODULATION:

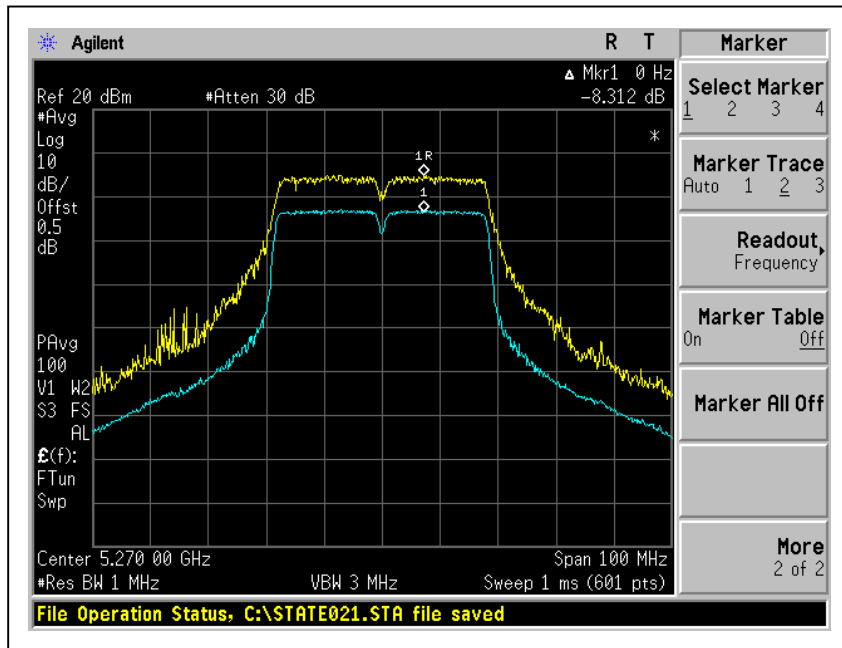
| | | | |
|------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 13.5Mbps |
| INPUT POWER | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 26deg.C, 63%RH, 965hPa |
| TESTED BY | Wen Yu | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER EXCURSION (dB) | PEAK to AVERAGE EXCURSION LIMIT (dB) | PASS/FAIL |
|----------------|--------------------------------|----------------------------------|---|------------------|
| 3 | 5270 | 8.312 | 13 | PASS |
| 4 | 5310 | 8.199 | 13 | PASS |
| 5 | 5510 | 8.504 | 13 | PASS |
| 7 | 5590 | 8.610 | 13 | PASS |
| 9 | 5670 | 8.964 | 13 | PASS |

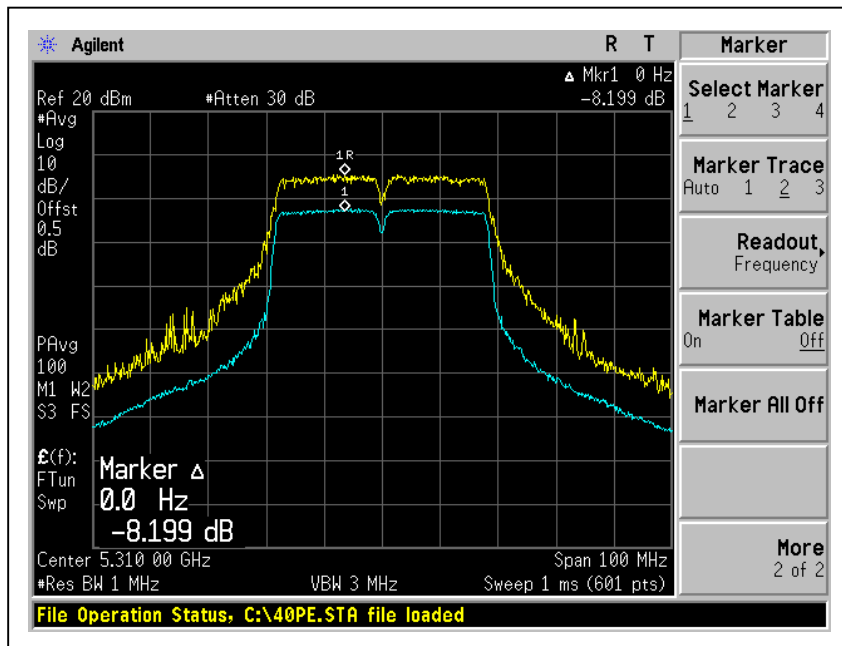


A D T

CH3



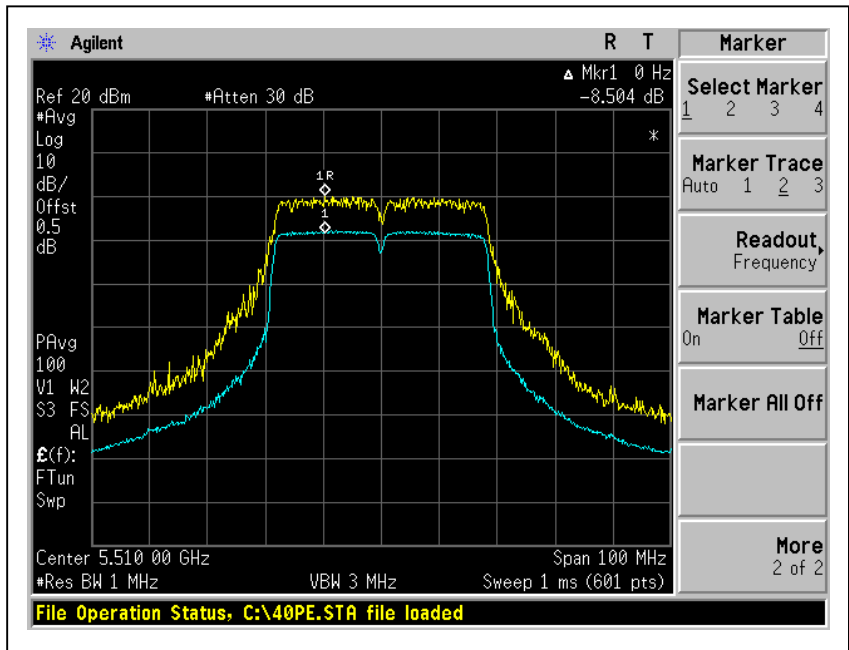
CH4



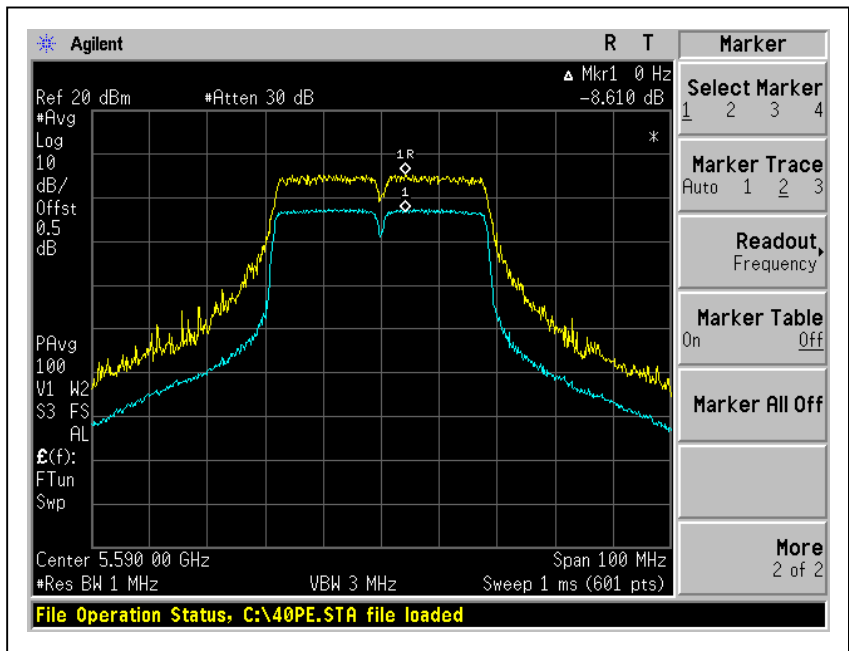


A D T

CH5



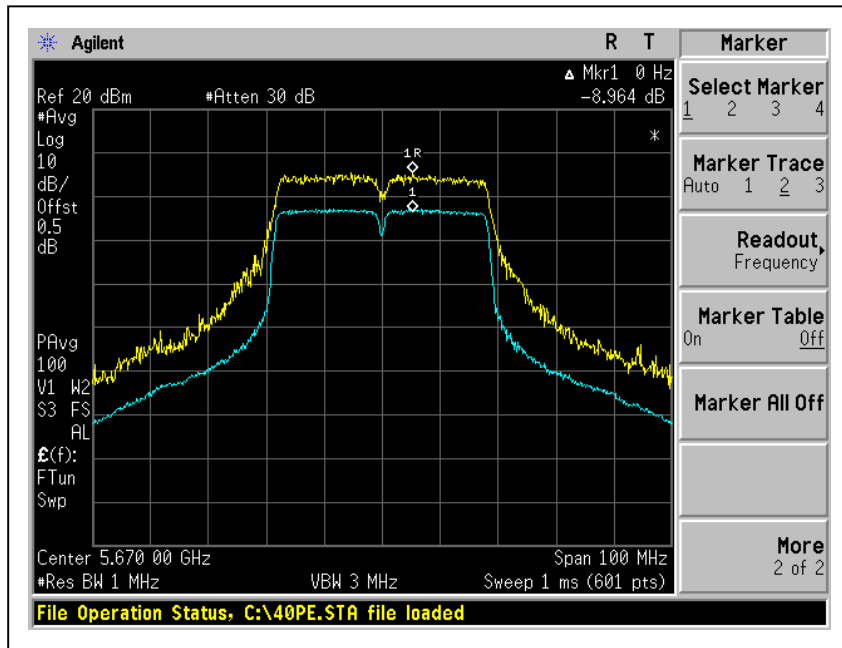
CH7





A D T

CH9





A D T

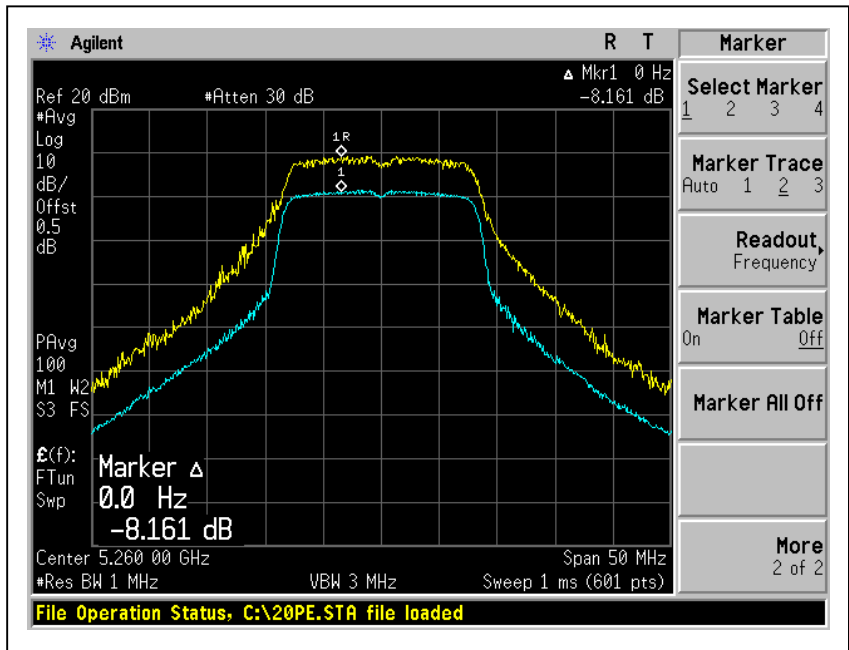
4.4.10 TEST RESULTS-ANTENNA 8

802.11a OFDM modulation

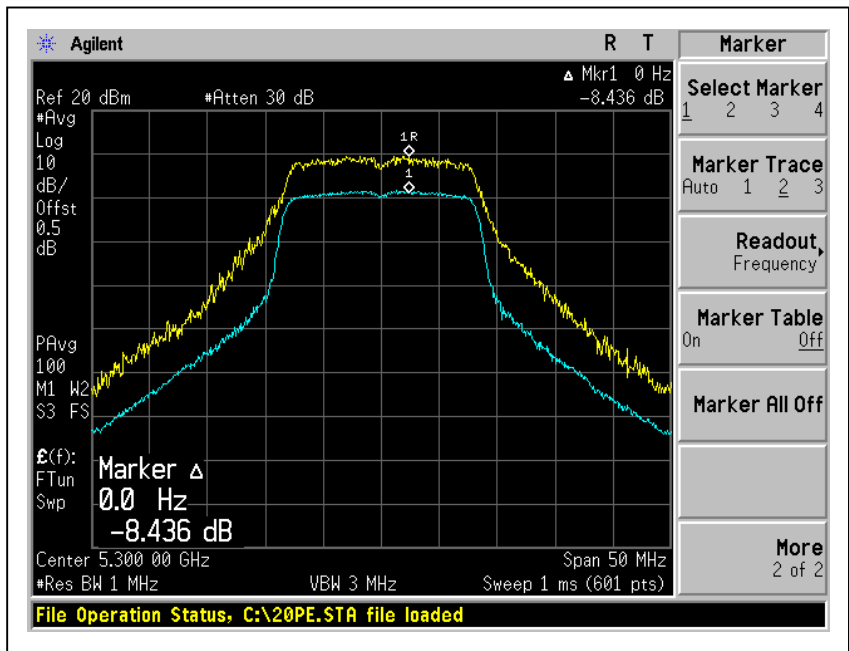
| | | | |
|------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 6Mbps |
| INPUT POWER | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 26deg.C, 63%RH, 965hPa |
| TESTED BY | Wen Yu | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER EXCURSION (dB) | PEAK to AVERAGE EXCURSION LIMIT (dB) | PASS/FAIL |
|----------------|--------------------------------|----------------------------------|---|------------------|
| 5 | 5260 | 8.161 | 13 | PASS |
| 7 | 5300 | 8.436 | 13 | PASS |
| 8 | 5320 | 8.864 | 13 | PASS |
| 9 | 5500 | 8.422 | 13 | PASS |
| 14 | 5600 | 8.242 | 13 | PASS |
| 19 | 5700 | 8.663 | 13 | PASS |

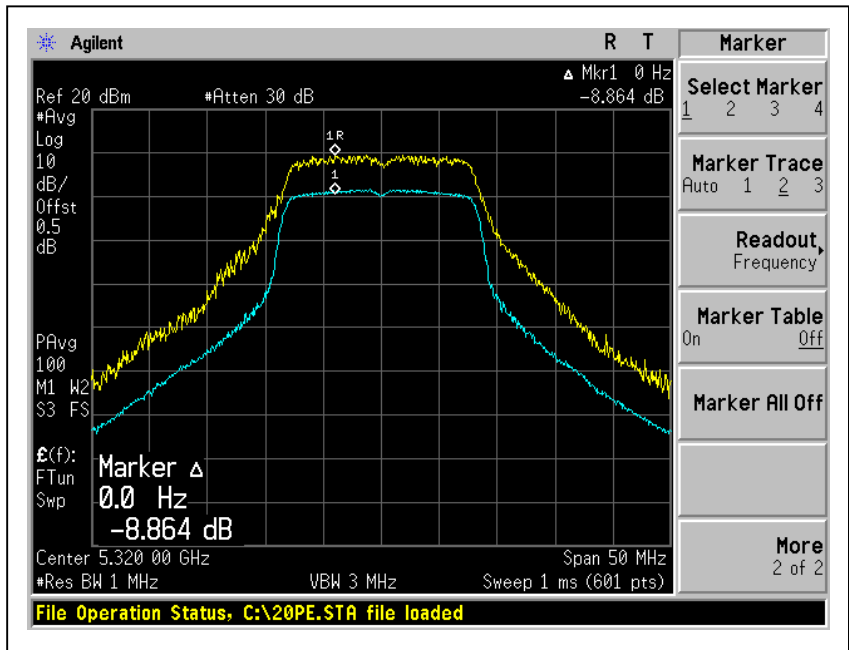
CH5



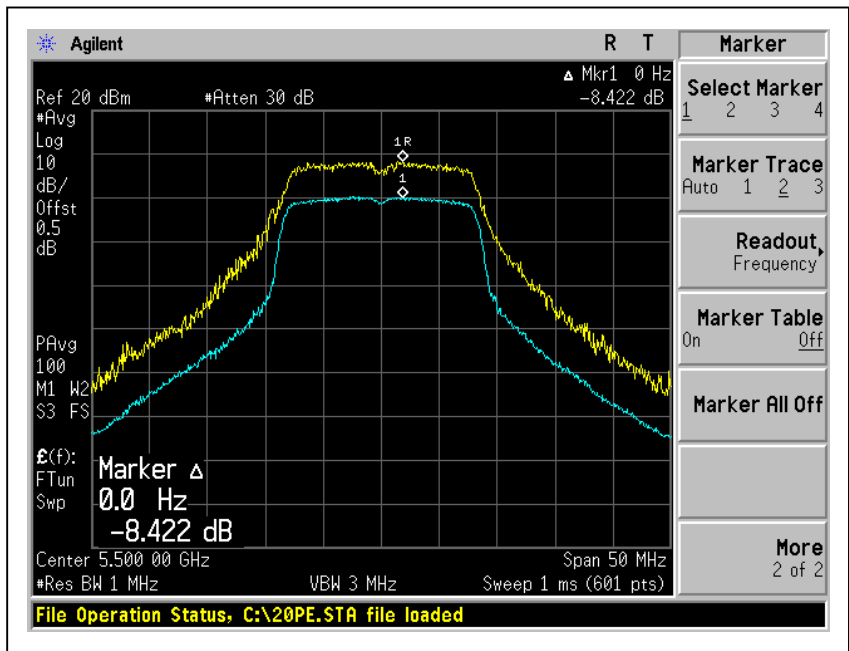
CH7



CH8



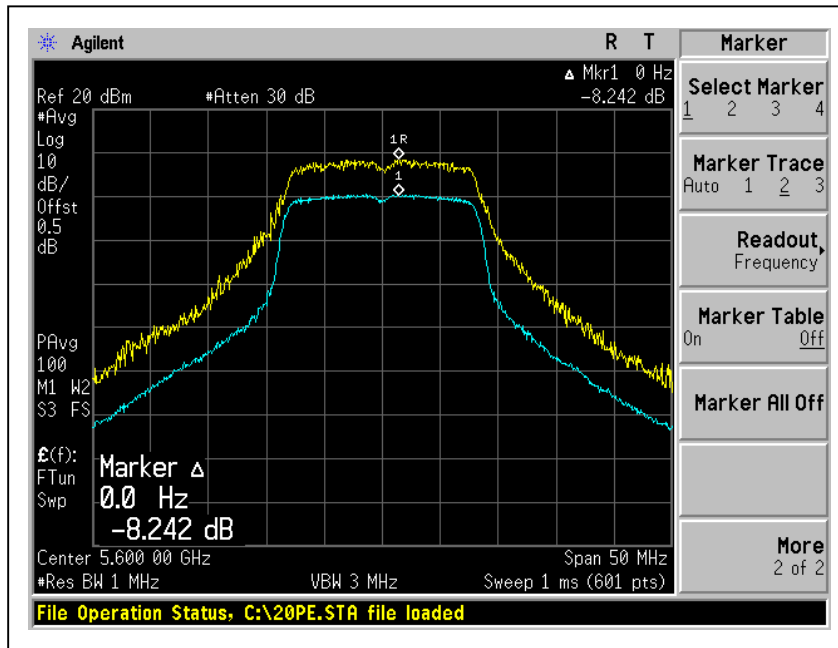
CH9



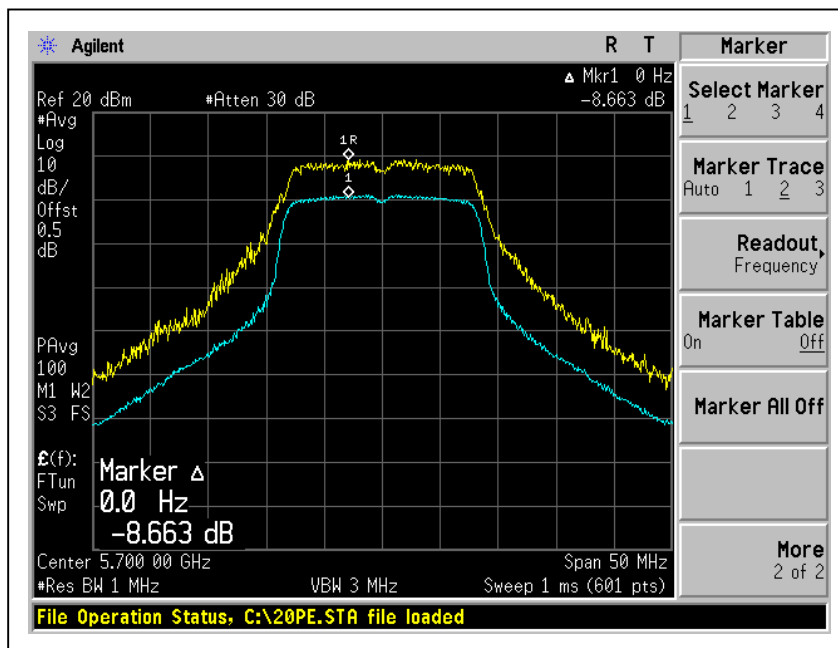


A D T

CH14



CH19





A D T

DRAFT 802.11n (20MHz) OFDM MODULATION:

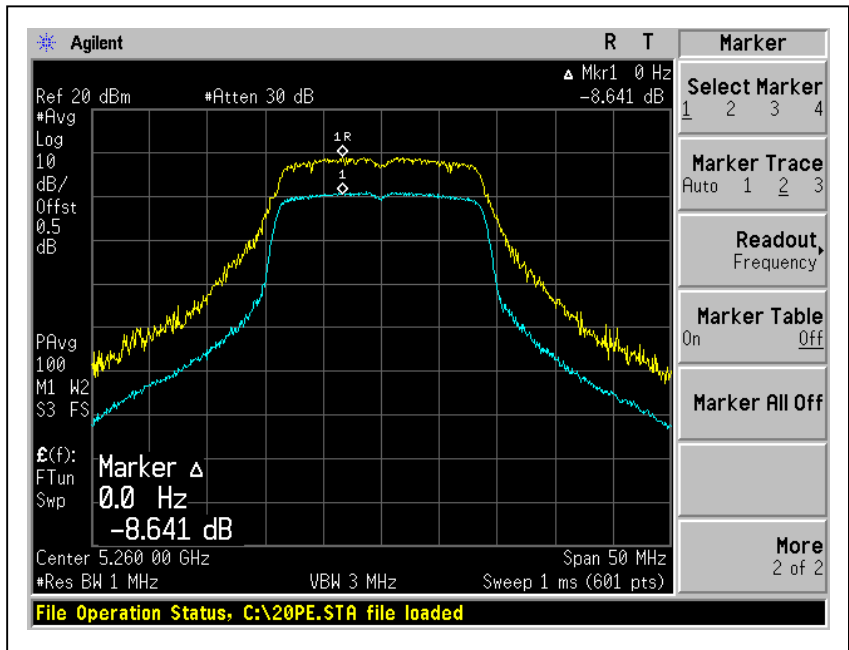
| | | | |
|------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 6.5Mbps |
| INPUT POWER | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 23deg.C, 54%RH, 965hPa |
| TESTED BY | Wen Yu | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER EXCURSION (dB) | PEAK to AVERAGE EXCURSION LIMIT (dB) | PASS/FAIL |
|----------------|--------------------------------|----------------------------------|---|------------------|
| 5 | 5260 | 8.641 | 13 | PASS |
| 7 | 5300 | 8.045 | 13 | PASS |
| 8 | 5320 | 8.343 | 13 | PASS |
| 9 | 5500 | 9.238 | 13 | PASS |
| 14 | 5600 | 8.303 | 13 | PASS |
| 19 | 5700 | 9.641 | 13 | PASS |

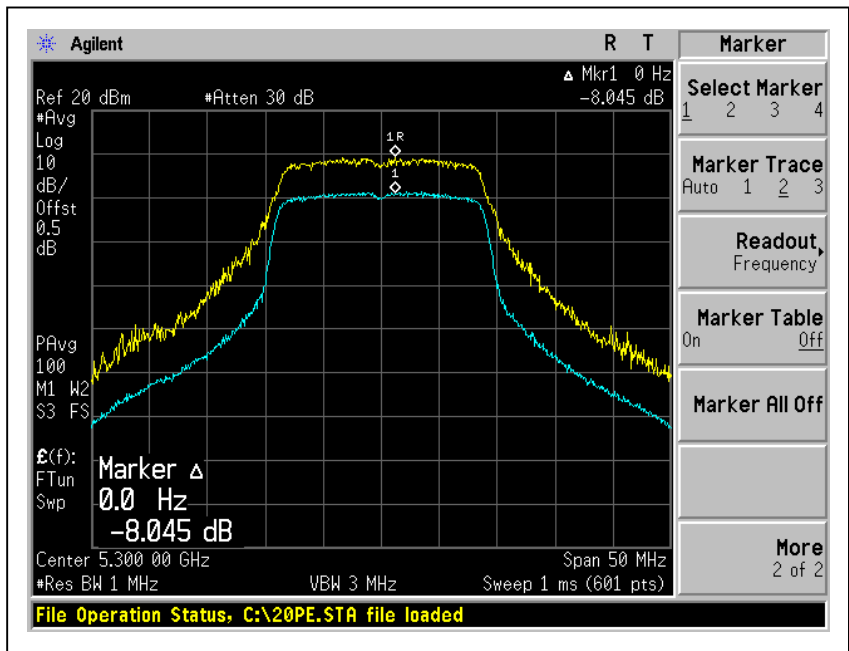


A D T

CH5



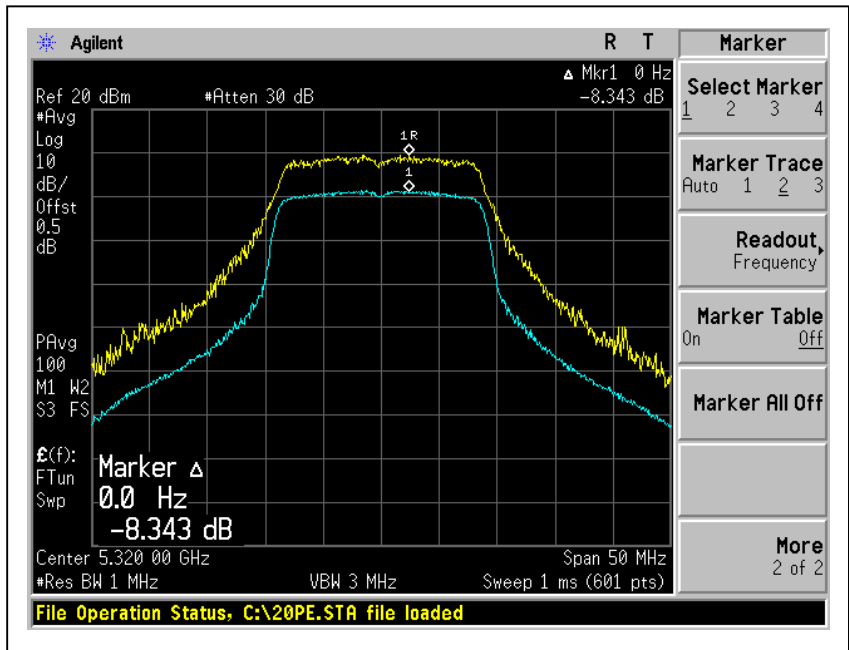
CH7



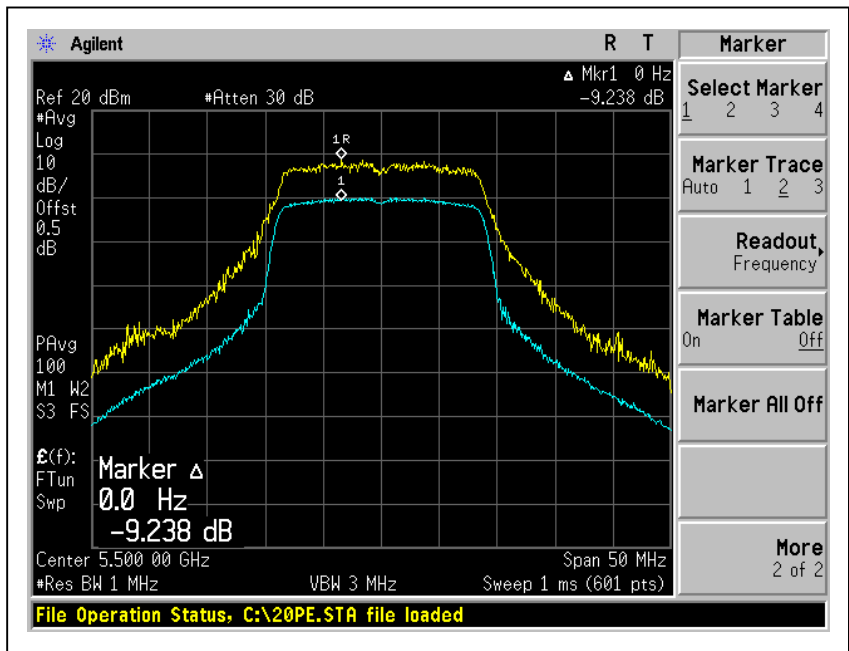


A D T

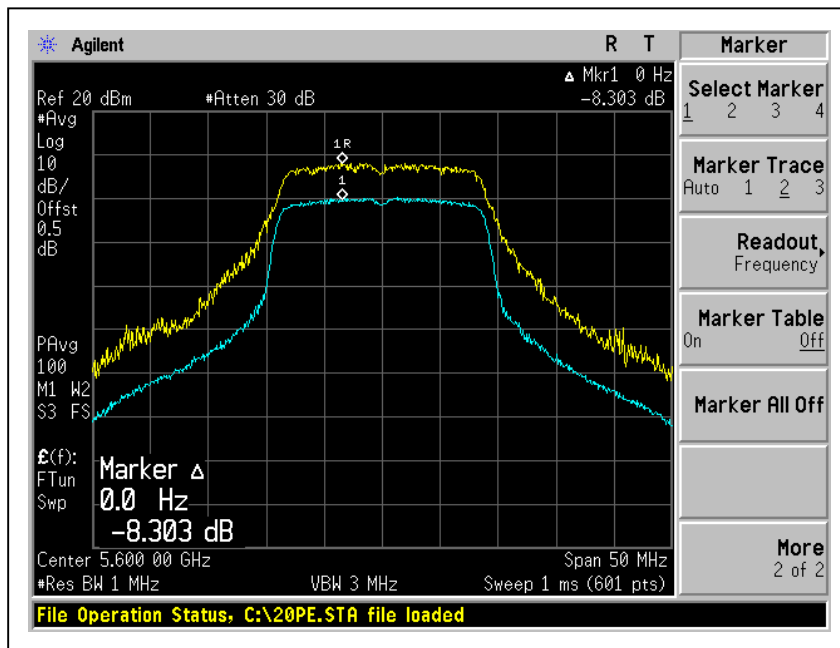
CH8



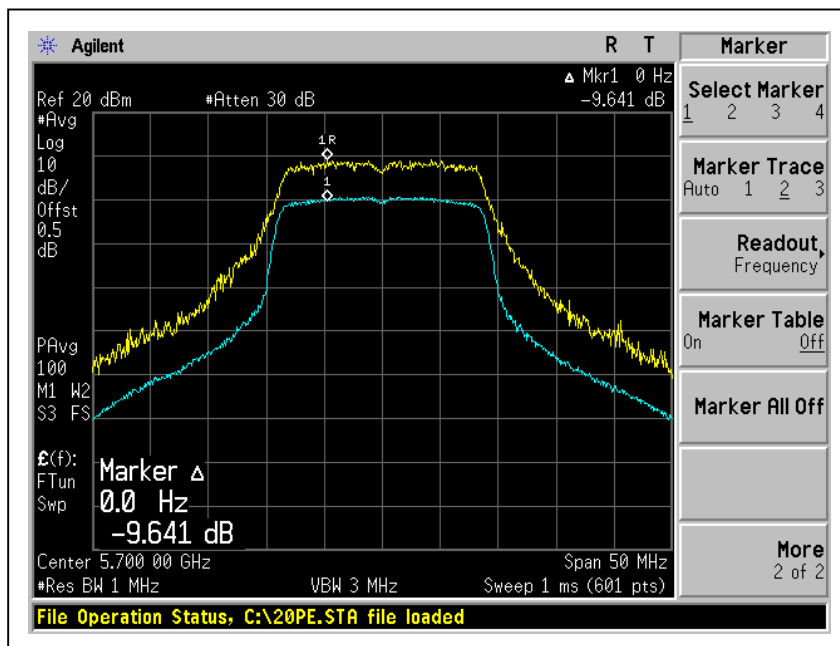
CH9



CH14



CH19





A D T

DRAFT 802.11n (40MHz) OFDM MODULATION:

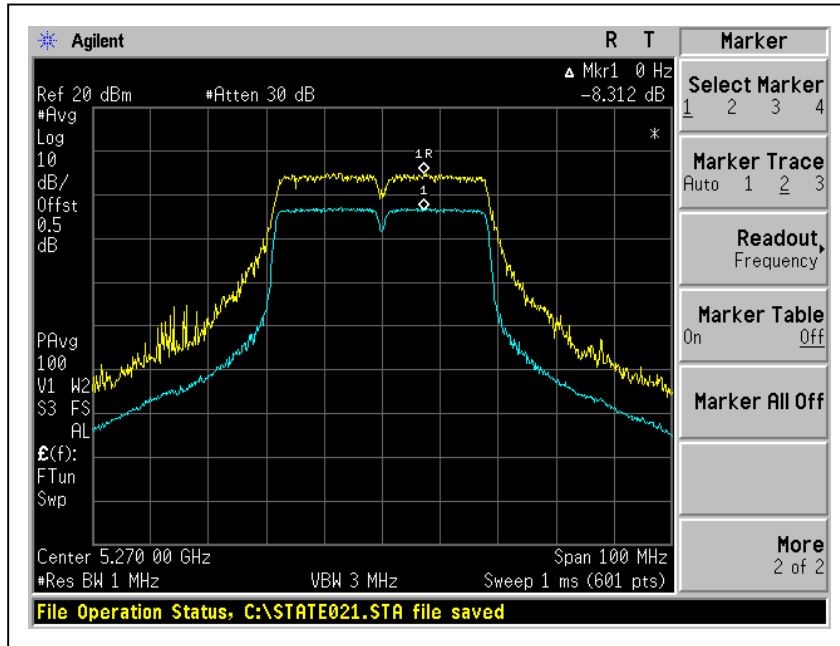
| | | | |
|------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 13.5Mbps |
| INPUT POWER | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 26deg.C, 63%RH, 965hPa |
| TESTED BY | Wen Yu | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER EXCURSION (dB) | PEAK to AVERAGE EXCURSION LIMIT (dB) | PASS/FAIL |
|----------------|--------------------------------|----------------------------------|---|------------------|
| 3 | 5270 | 8.312 | 13 | PASS |
| 4 | 5310 | 8.199 | 13 | PASS |
| 5 | 5510 | 8.290 | 13 | PASS |
| 7 | 5590 | 8.610 | 13 | PASS |
| 9 | 5670 | 8.964 | 13 | PASS |

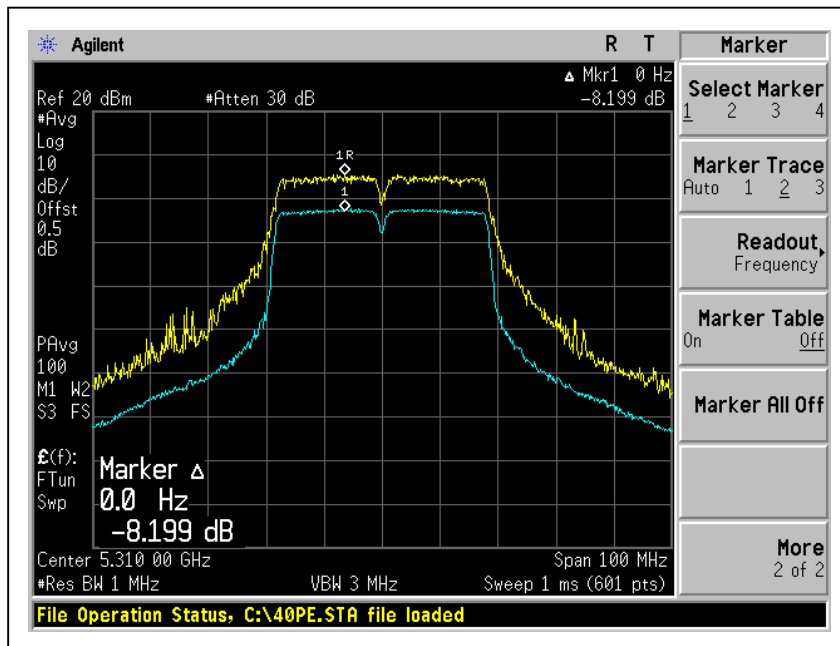


A D T

CH3



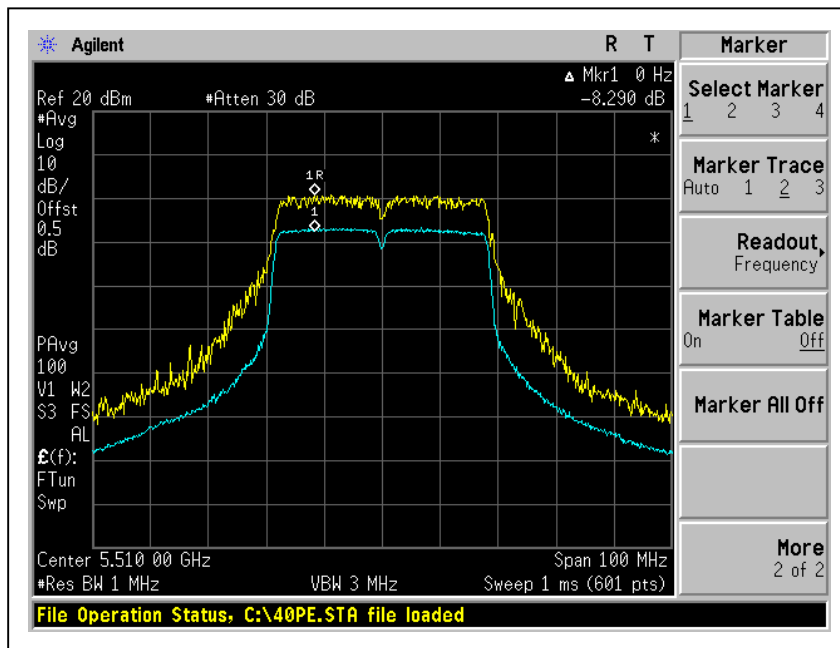
CH4



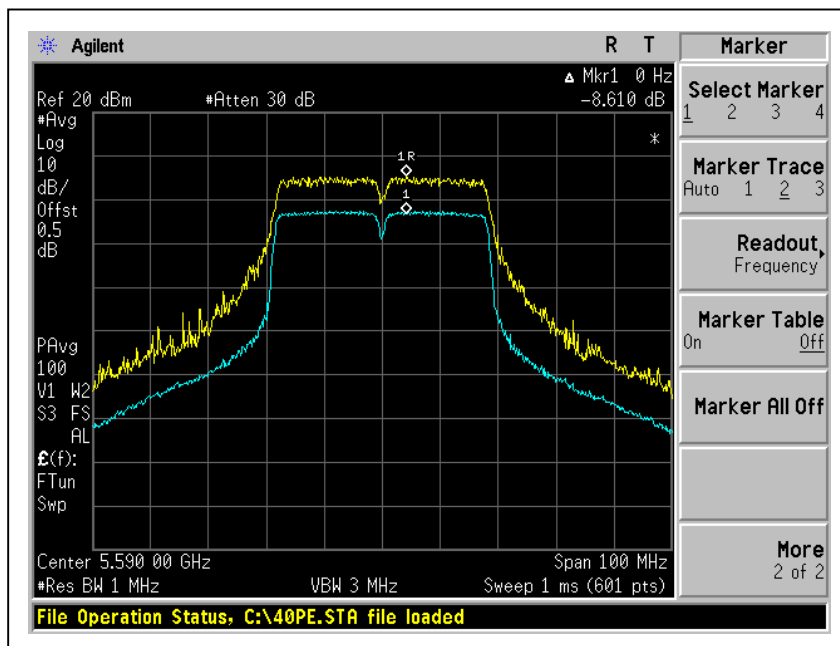


A D T

CH5



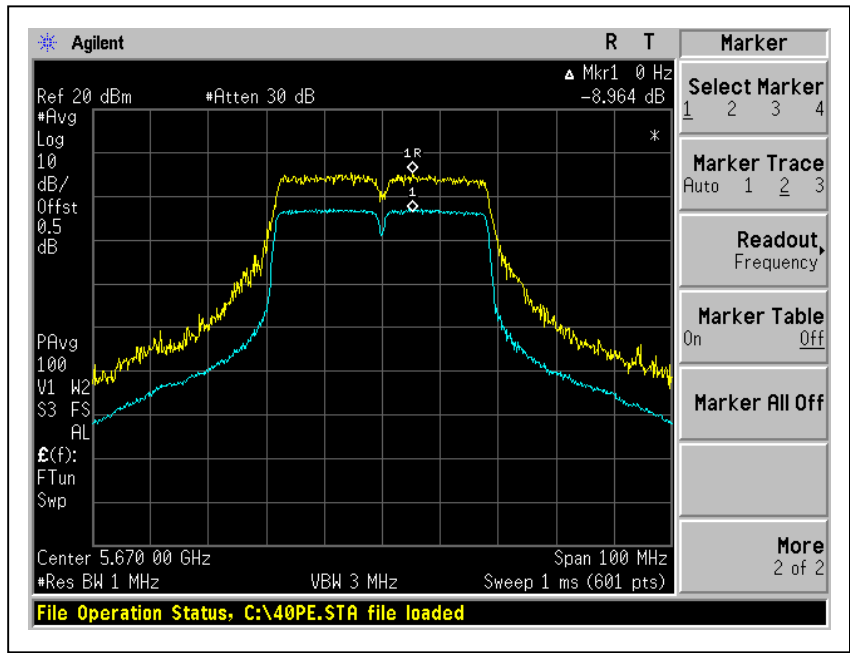
CH7





A D T

CH9





A D T

4.4.11 TEST RESULTS-ANTENNA 11

802.11a OFDM modulation

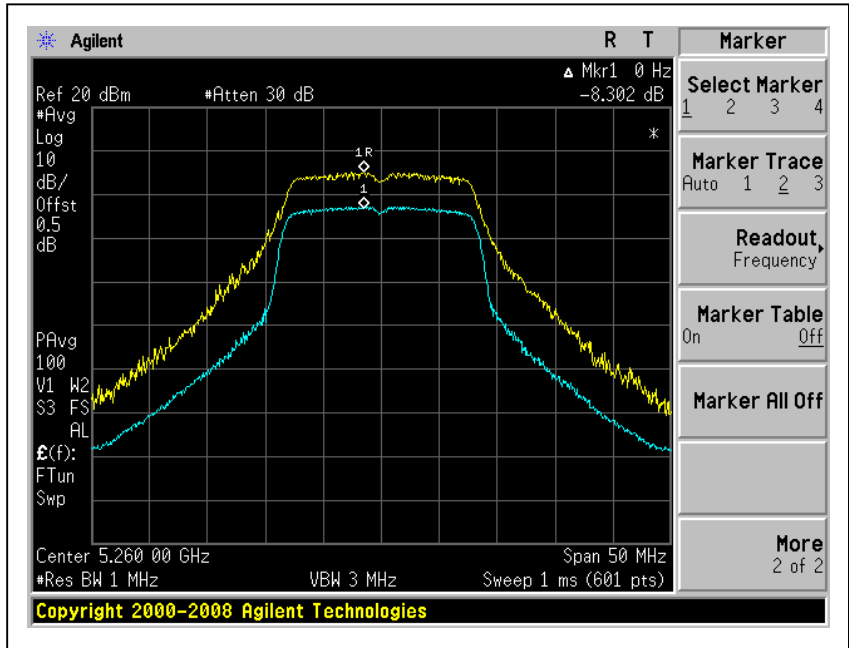
| | | | |
|------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 6Mbps |
| INPUT POWER | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 26deg.C, 63%RH, 965hPa |
| TESTED BY | Wen Yu | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER EXCURSION (dB) | PEAK to AVERAGE EXCURSION LIMIT (dB) | PASS/FAIL |
|----------------|--------------------------------|----------------------------------|---|------------------|
| 5 | 5260 | 8.302 | 13 | PASS |
| 7 | 5300 | 8.988 | 13 | PASS |
| 8 | 5320 | 8.101 | 13 | PASS |
| 9 | 5500 | 8.057 | 13 | PASS |
| 14 | 5600 | 8.575 | 13 | PASS |
| 19 | 5700 | 8.462 | 13 | PASS |

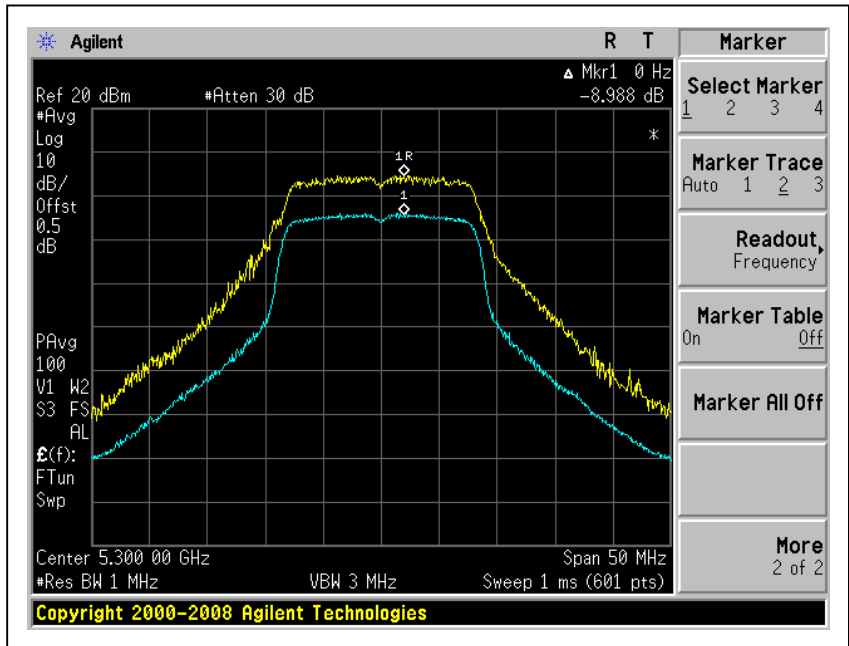


A D T

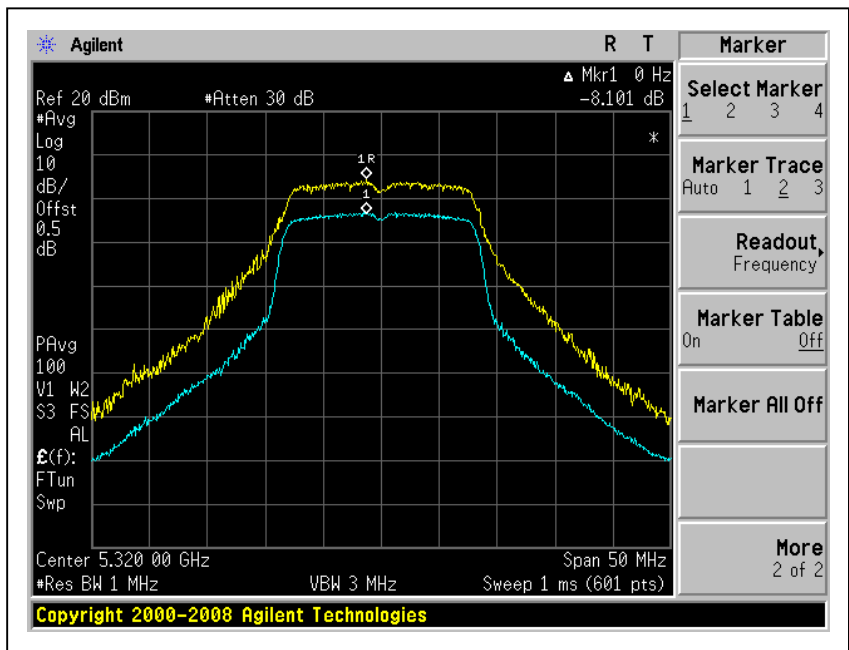
CH5



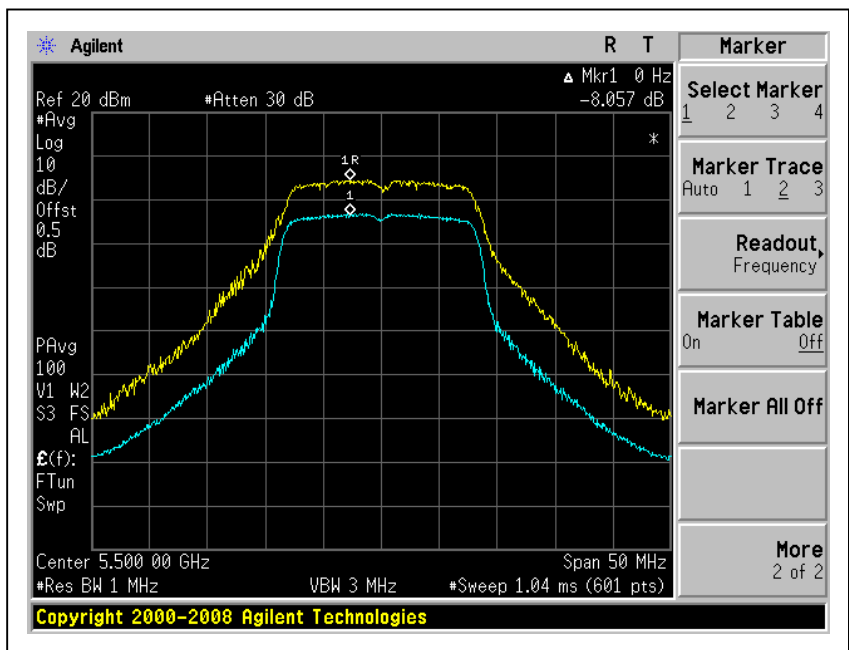
CH7



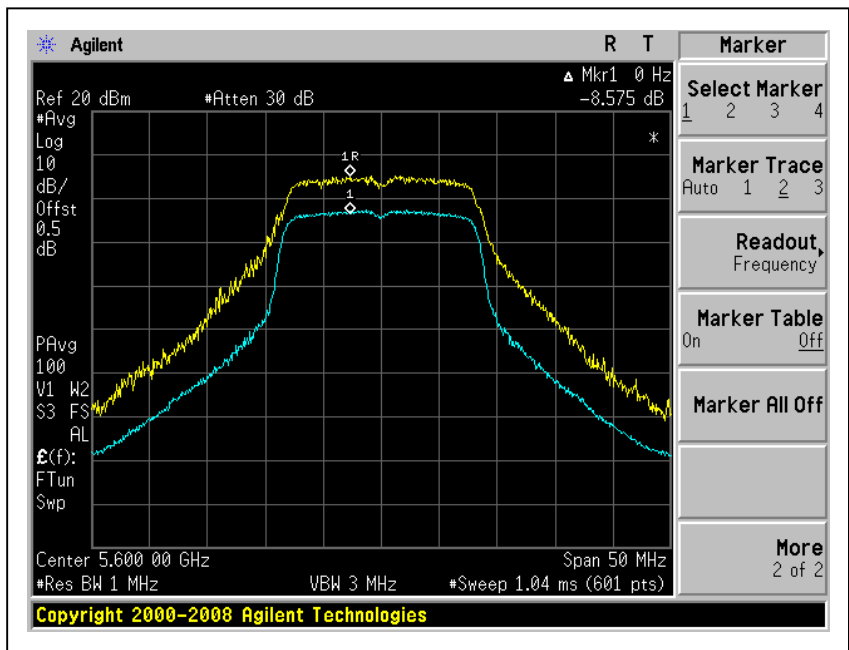
CH8



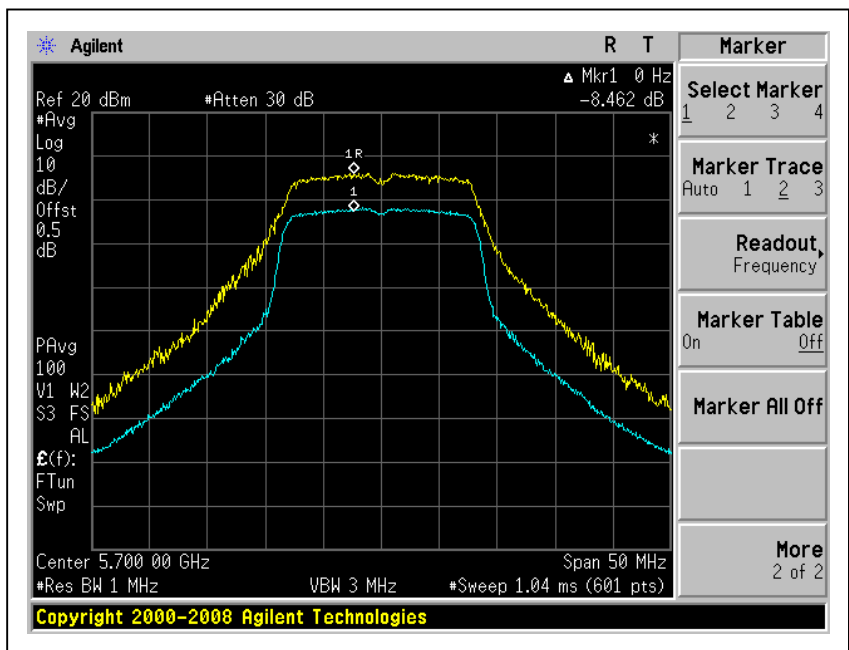
CH9



CH14



CH19





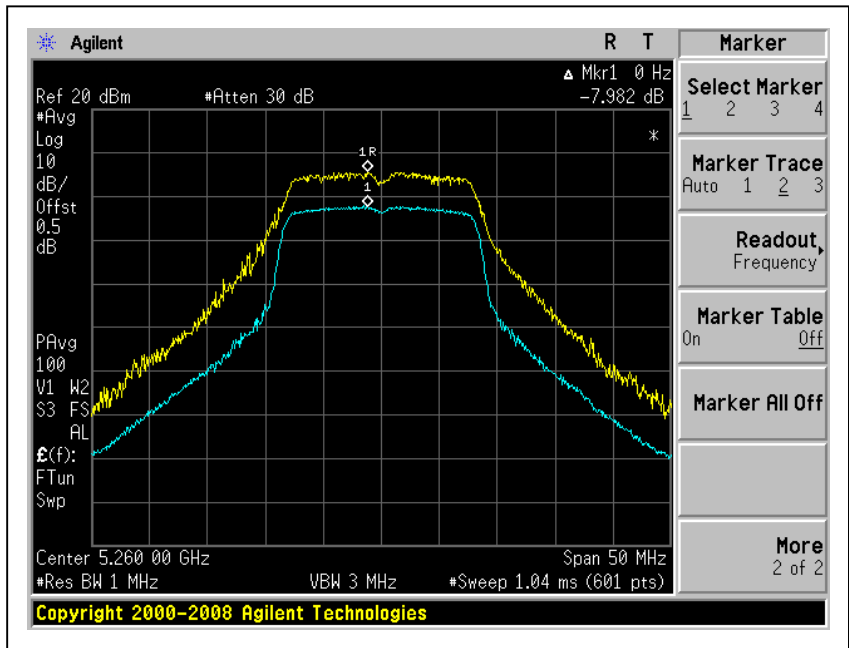
A D T

DRAFT 802.11n (20MHz) OFDM MODULATION:

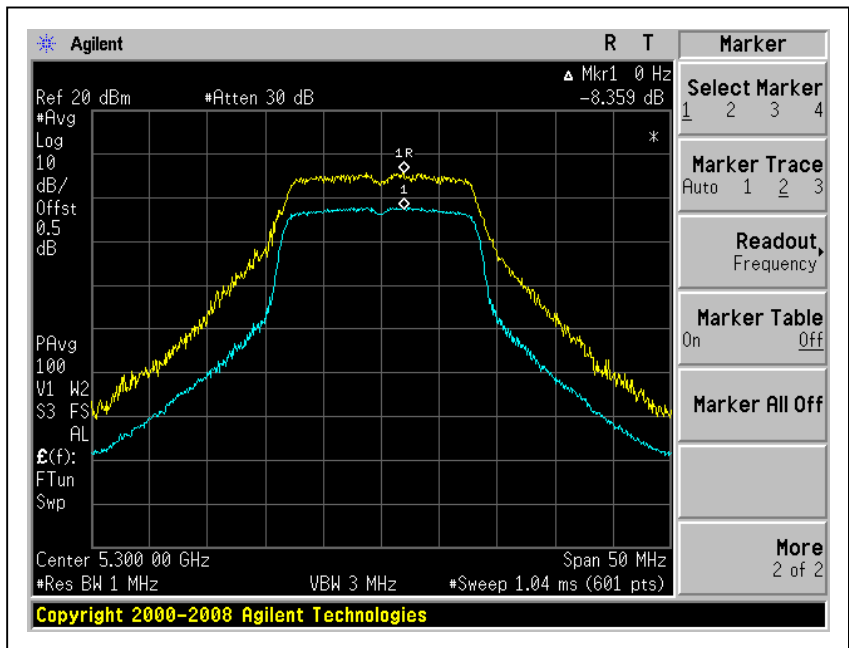
| | | | |
|------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 6.5Mbps |
| INPUT POWER | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 23deg.C, 54%RH, 965hPa |
| TESTED BY | Wen Yu | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER EXCURSION (dB) | PEAK to AVERAGE EXCURSION LIMIT (dB) | PASS/FAIL |
|----------------|--------------------------------|----------------------------------|---|------------------|
| 5 | 5260 | 7.982 | 13 | PASS |
| 7 | 5300 | 8.359 | 13 | PASS |
| 8 | 5320 | 8.14 | 13 | PASS |
| 9 | 5500 | 8.129 | 13 | PASS |
| 14 | 5600 | 8.058 | 13 | PASS |
| 19 | 5700 | 8.406 | 13 | PASS |

CH5



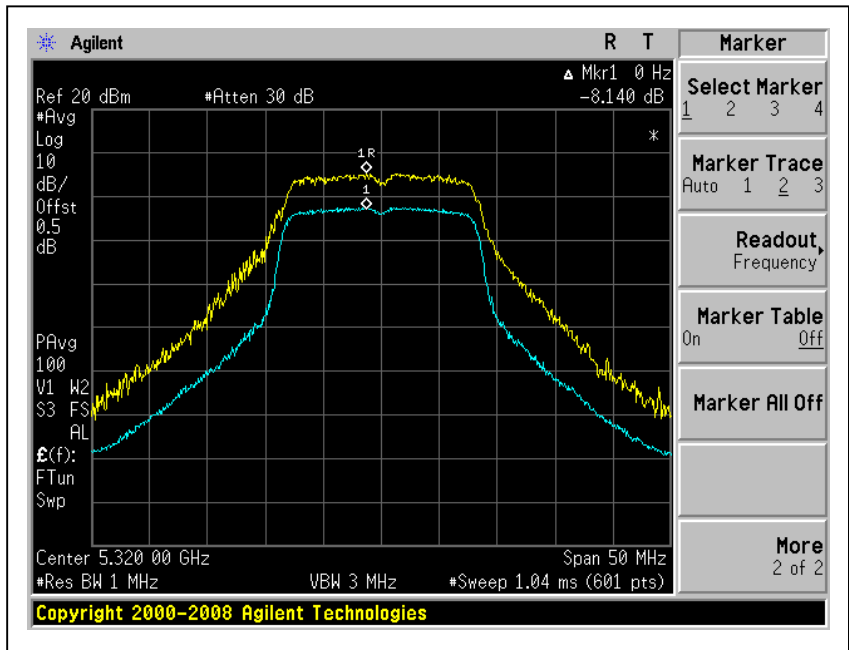
CH7



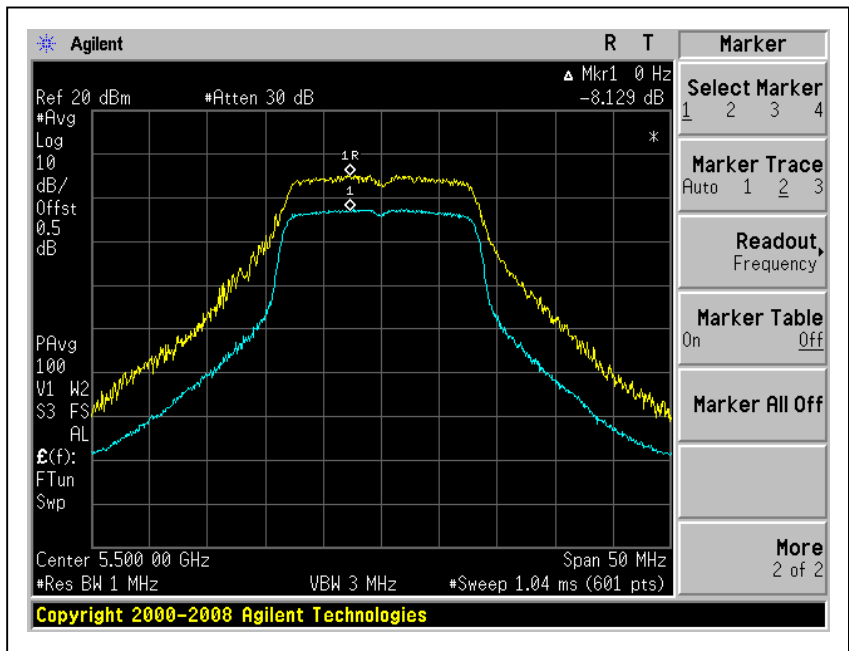


A D T

CH8



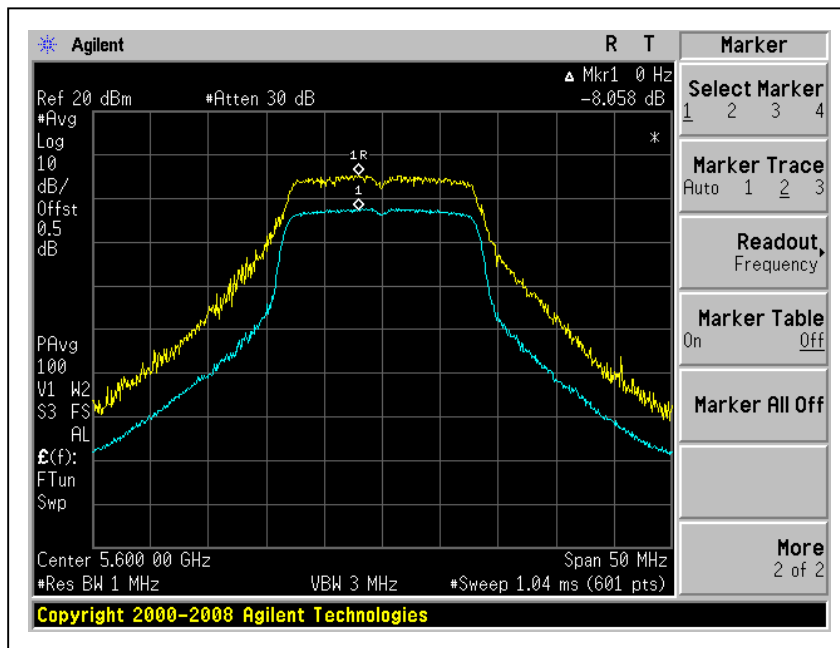
CH9



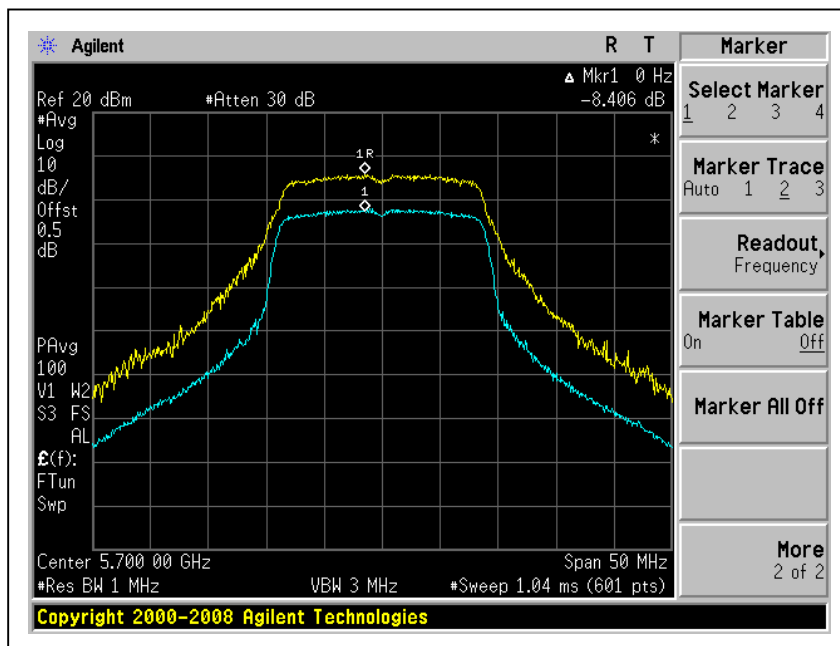


A D T

CH14



CH19





A D T

DRAFT 802.11n (40MHz) OFDM MODULATION:

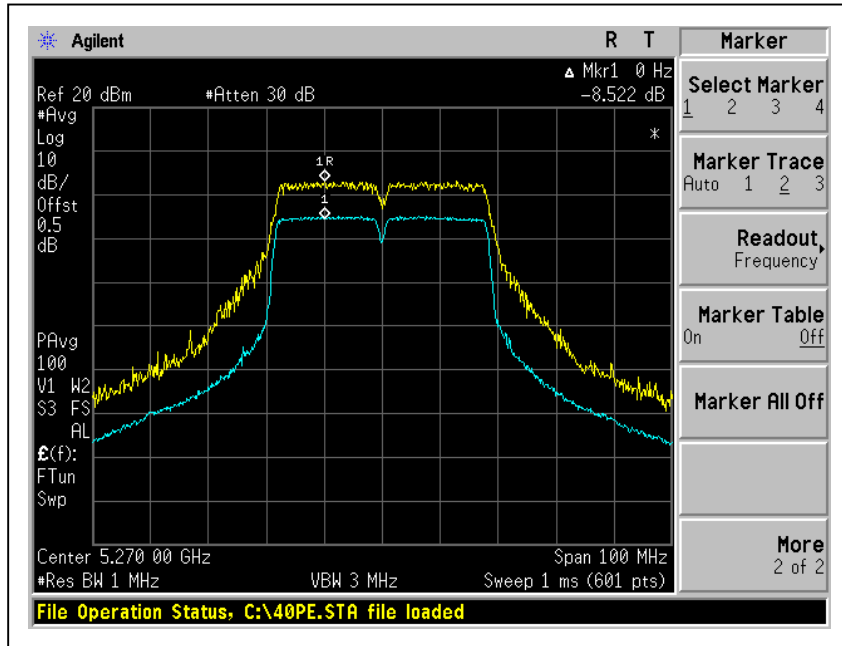
| | | | |
|------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 13.5Mbps |
| INPUT POWER | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 26deg.C, 63%RH, 965hPa |
| TESTED BY | Wen Yu | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER EXCURSION (dB) | PEAK to AVERAGE EXCURSION LIMIT (dB) | PASS/FAIL |
|----------------|--------------------------------|----------------------------------|---|------------------|
| 3 | 5270 | 8.522 | 13 | PASS |
| 4 | 5310 | 9.786 | 13 | PASS |
| 5 | 5510 | 9.508 | 13 | PASS |
| 7 | 5590 | 8.072 | 13 | PASS |
| 9 | 5670 | 8.426 | 13 | PASS |

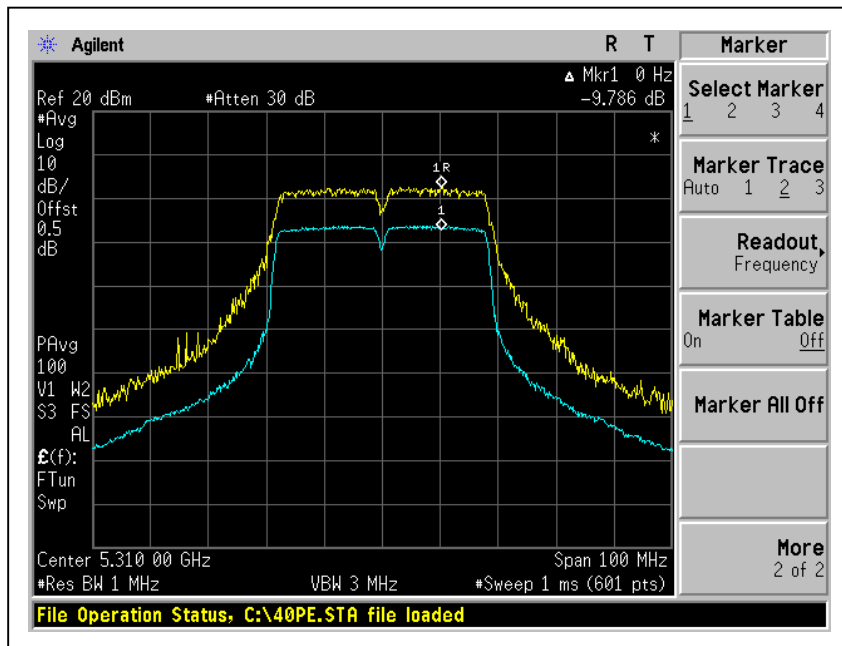


A D T

CH3



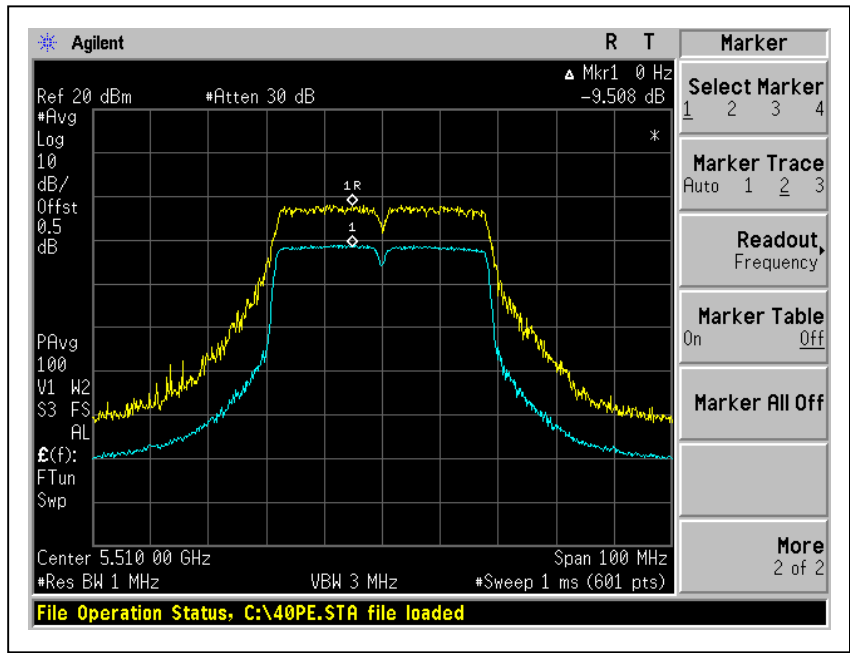
CH4



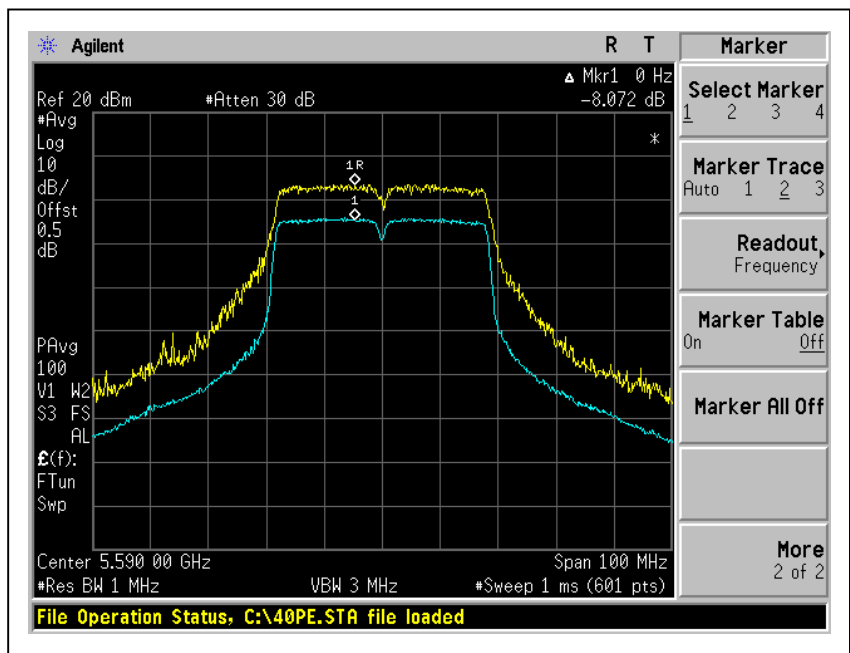


A D T

CH5



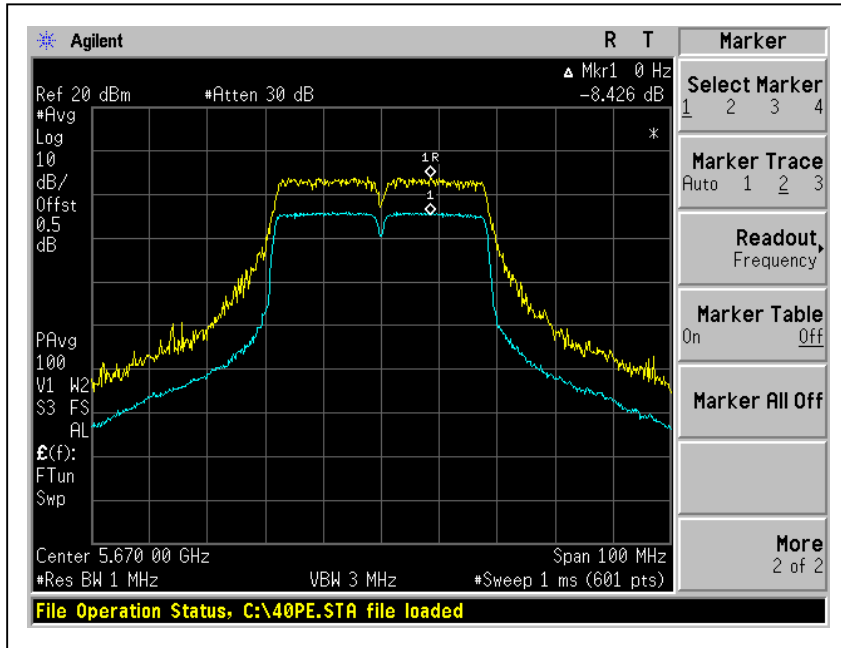
CH7





A D T

CH9





A D T

4.4.12 TEST RESULTS-ANTENNA 12

802.11a OFDM modulation

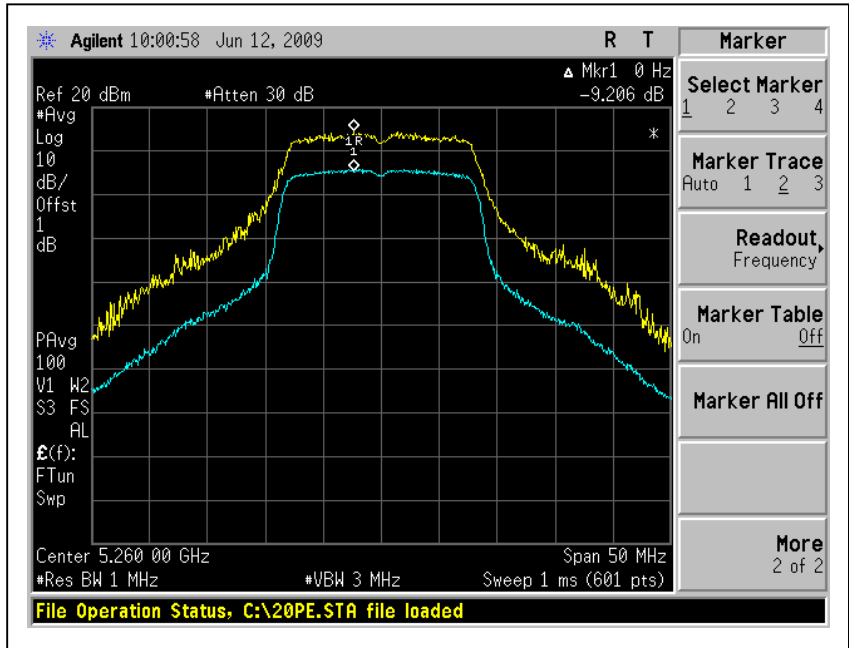
| | | | |
|------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 6Mbps |
| INPUT POWER | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 26deg.C, 63%RH, 965hPa |
| TESTED BY | Wen Yu | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER EXCURSION (dB) | PEAK to AVERAGE EXCURSION LIMIT (dB) | PASS/FAIL |
|----------------|--------------------------------|----------------------------------|---|------------------|
| 5 | 5260 | 9.206 | 13 | PASS |
| 7 | 5300 | 8.541 | 13 | PASS |
| 8 | 5320 | 8.014 | 13 | PASS |
| 9 | 5500 | 8.492 | 13 | PASS |
| 14 | 5600 | 8.237 | 13 | PASS |
| 19 | 5700 | 8.27 | 13 | PASS |

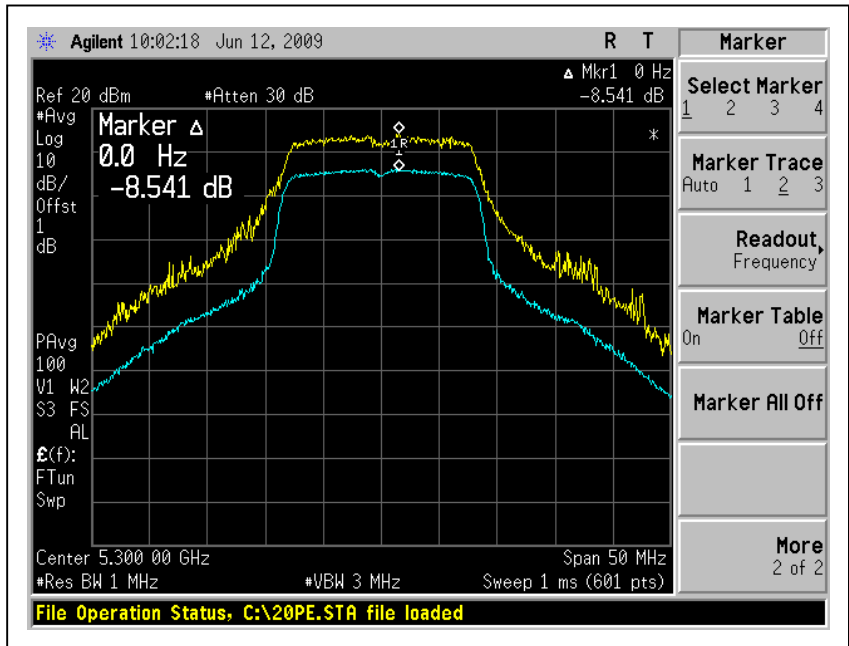


A D T

CH5



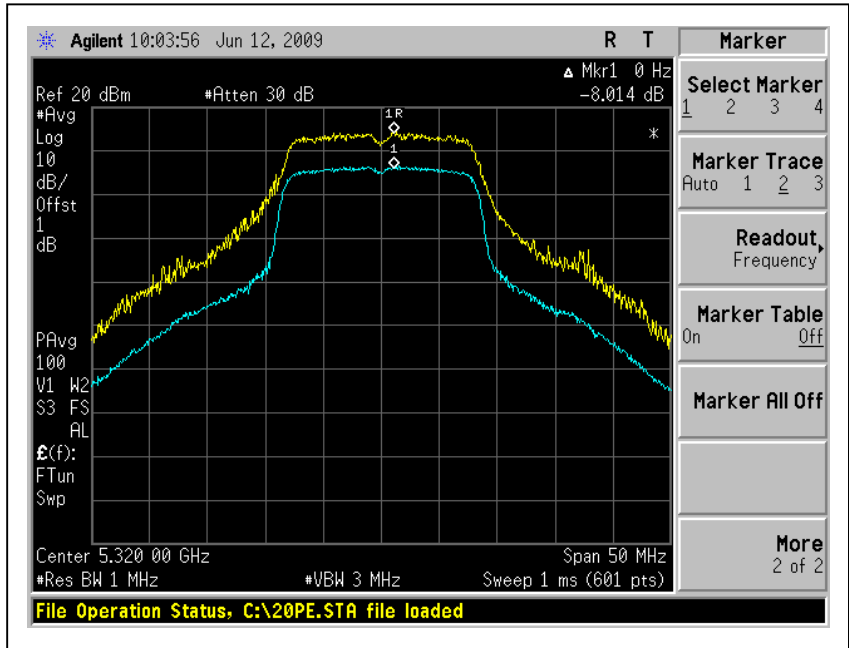
CH7



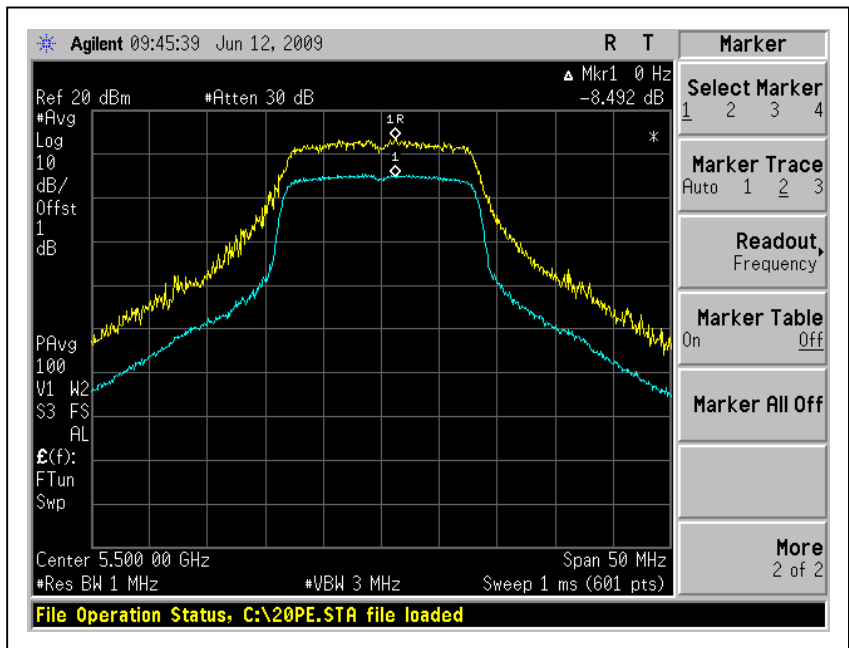


A D T

CH8



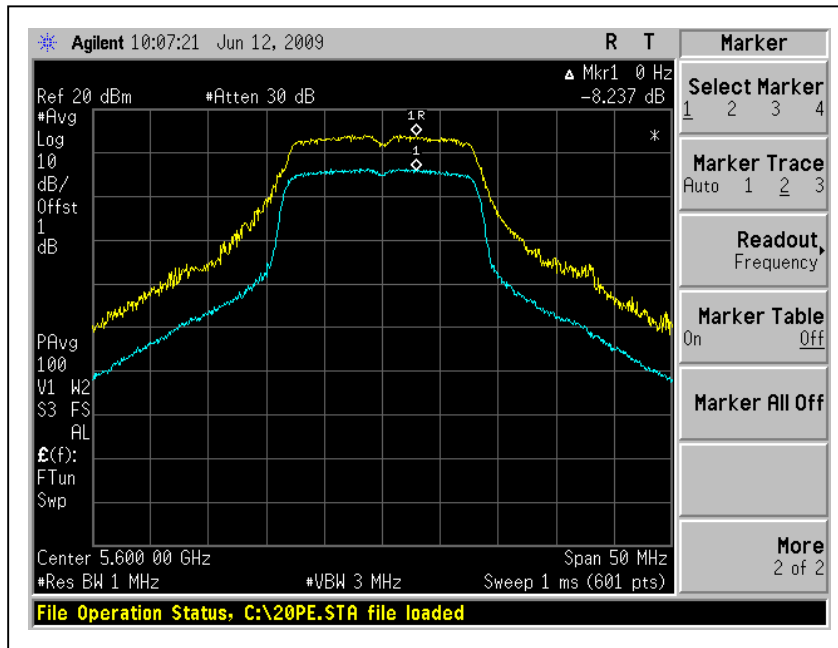
CH9





A D T

CH14



CH19

