

8.9.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

| Channel | Frequency (MHz) | Power (dBm) |
|---------|--------------------|----------------|
| Low | 5260 | 16.83 |
| Mid | 5300 | 16.70 |
| High | 5320 | 16.40 |

8.9.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.25–5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS

Bandwidth, Antenna Gain, and Limits

| Channel | Frequency (MHz) | Min 26 dB BW (MHz) | Directional Gain (dBi) | Power Limit (dBm) | PSD Limit (dBm) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|-----------------------|
| Low | 5260 | 22.00 | 3.30 | 24.00 | 11.00 |
| Mid | 5300 | 22.00 | 3.30 | 24.00 | 11.00 |
| High | 5320 | 21.95 | 3.30 | 24.00 | 11.00 |

| | | |
|---------------------------|------|---|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd Power & PSD |
|---------------------------|------|---|

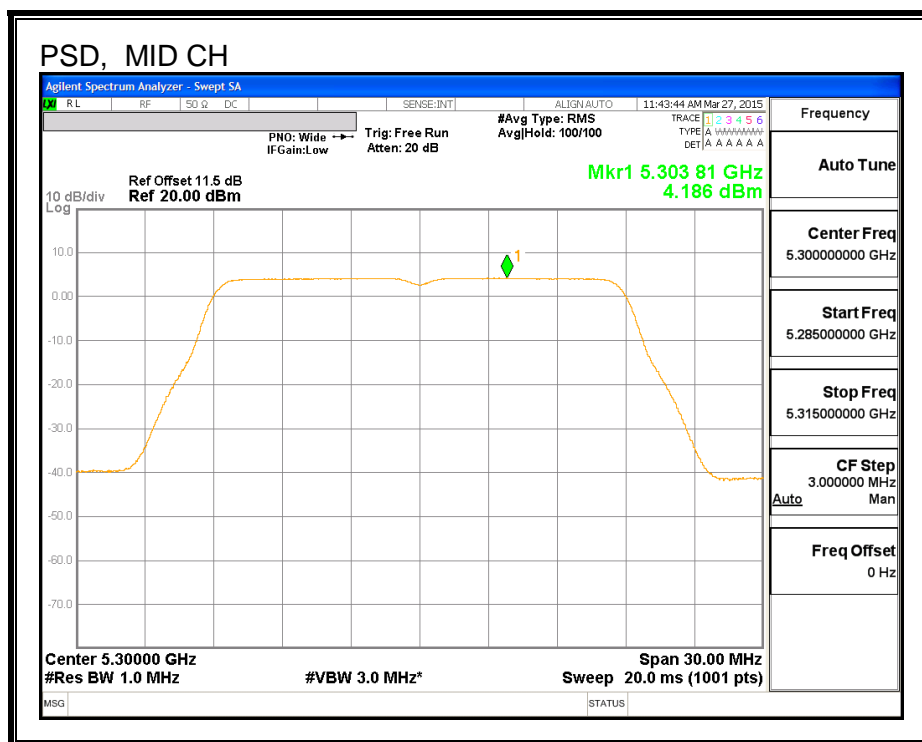
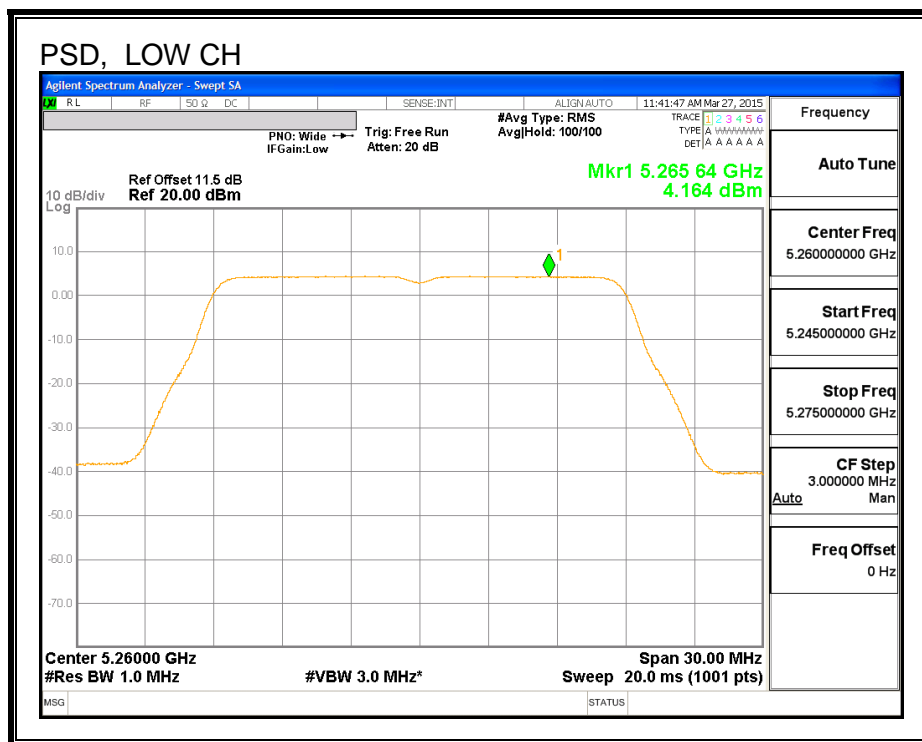
Output Power Results

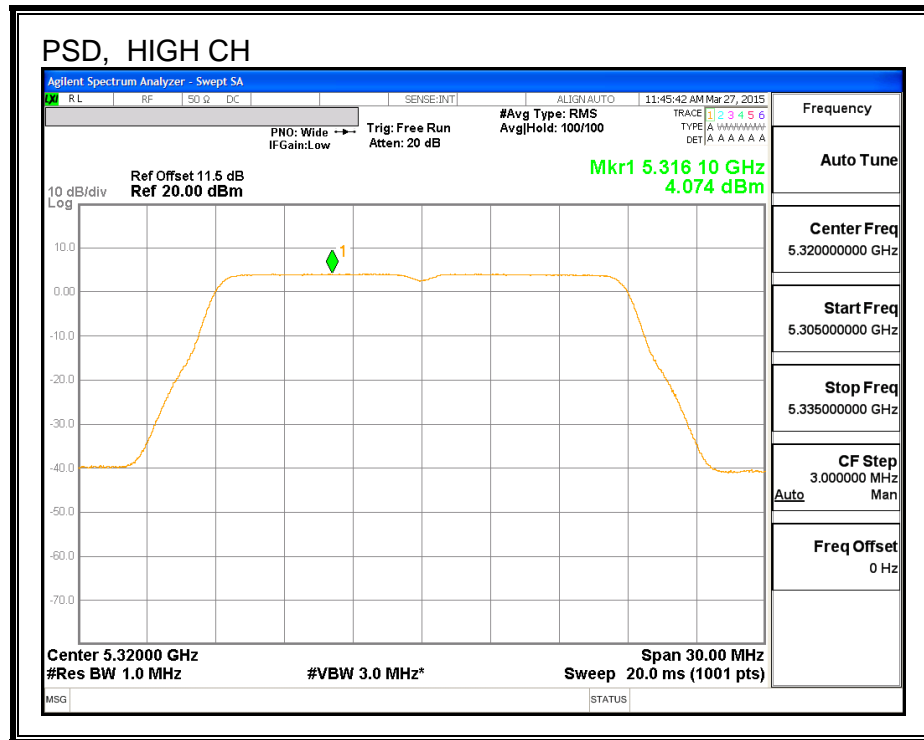
| Channel | Frequency (MHz) | Antenna B Meas Power (dBm) | Total Corr'd Power (dBm) | Power Limit (dBm) | Power Margin (dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low | 5260 | 16.83 | 16.83 | 24.00 | -7.17 |
| Mid | 5300 | 16.70 | 16.70 | 24.00 | -7.30 |
| High | 5320 | 16.40 | 16.40 | 24.00 | -7.60 |

PSD Results

| Channel | Frequency (MHz) | Antenna B Meas PSD (dBm) | Total Corr'd PSD (dBm) | PSD Limit (dBm) | PSD Margin (dB) |
|---------|--------------------|-----------------------------------|---------------------------------|-----------------------|-----------------------|
| Low | 5260 | 4.16 | 4.16 | 11.00 | -6.84 |
| Mid | 5300 | 4.19 | 4.19 | 11.00 | -6.81 |
| High | 5320 | 4.07 | 4.07 | 11.00 | -6.93 |

PSD





8.10. 802.11n HT20 2Tx CDD MODE IN THE 5.3 GHZ BAND

8.10.1. 26 dB BANDWIDTH

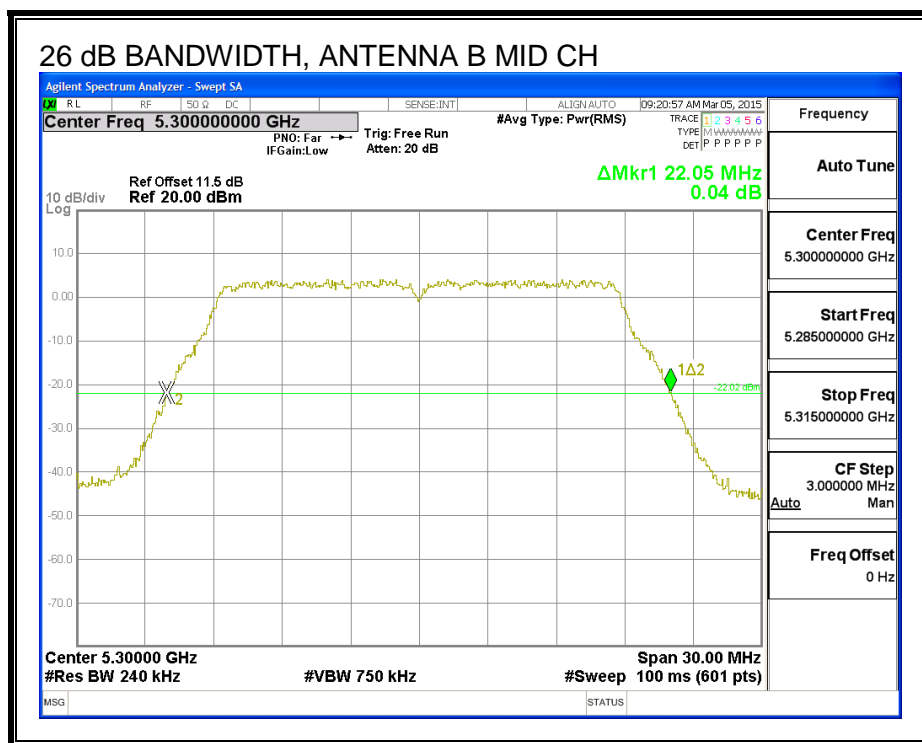
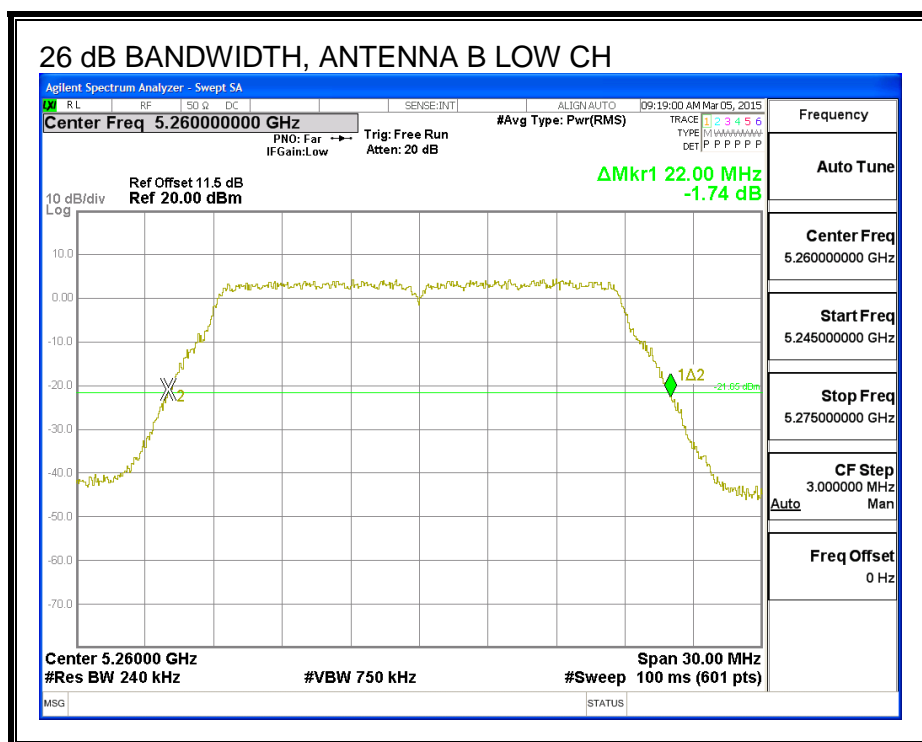
LIMITS

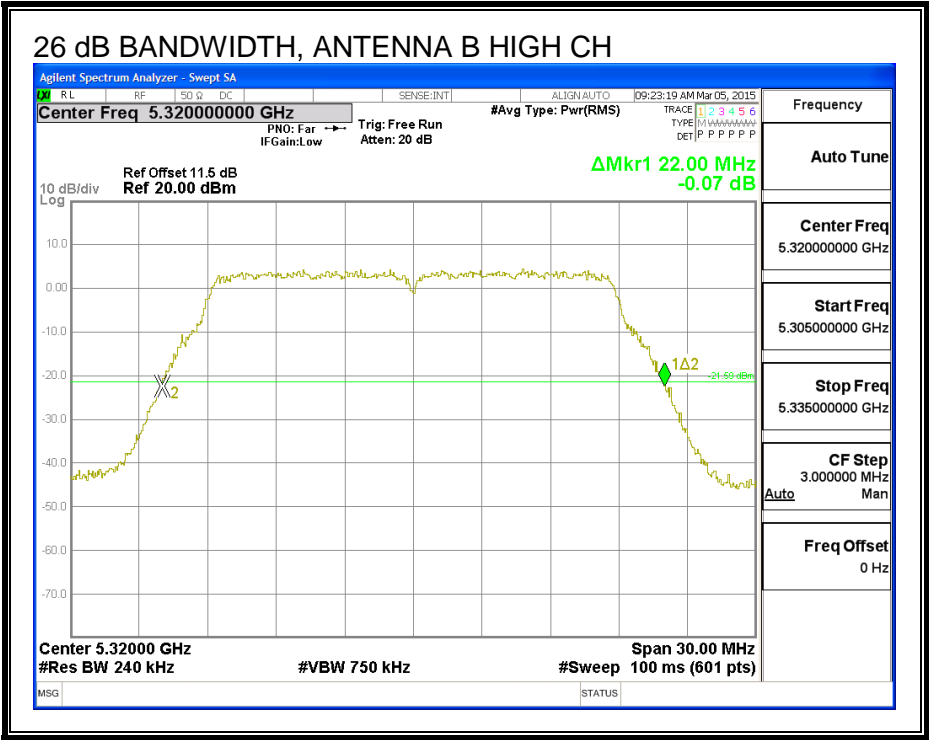
None; for reporting purposes only.

RESULTS

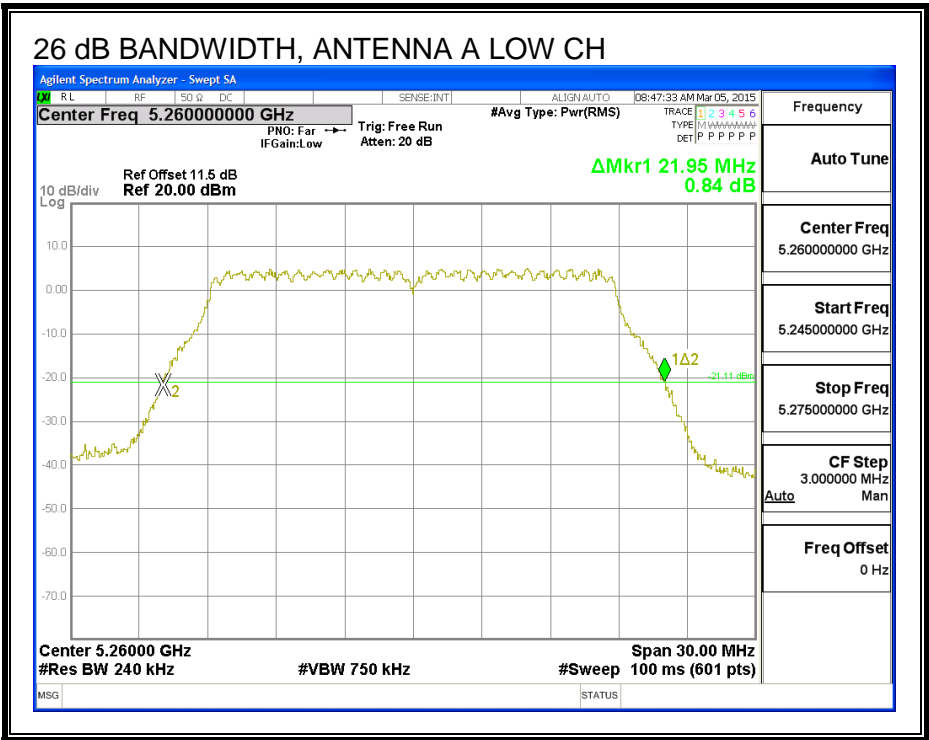
| Channel | Frequency (MHz) | 26 dB BW Antenna B (MHz) | 26 dB BW Antenna A (MHz) |
|---------|--------------------|--------------------------------|--------------------------------|
| Low | 5260 | 22.00 | 21.95 |
| Mid | 5300 | 22.05 | 21.95 |
| High | 5320 | 22.00 | 21.95 |

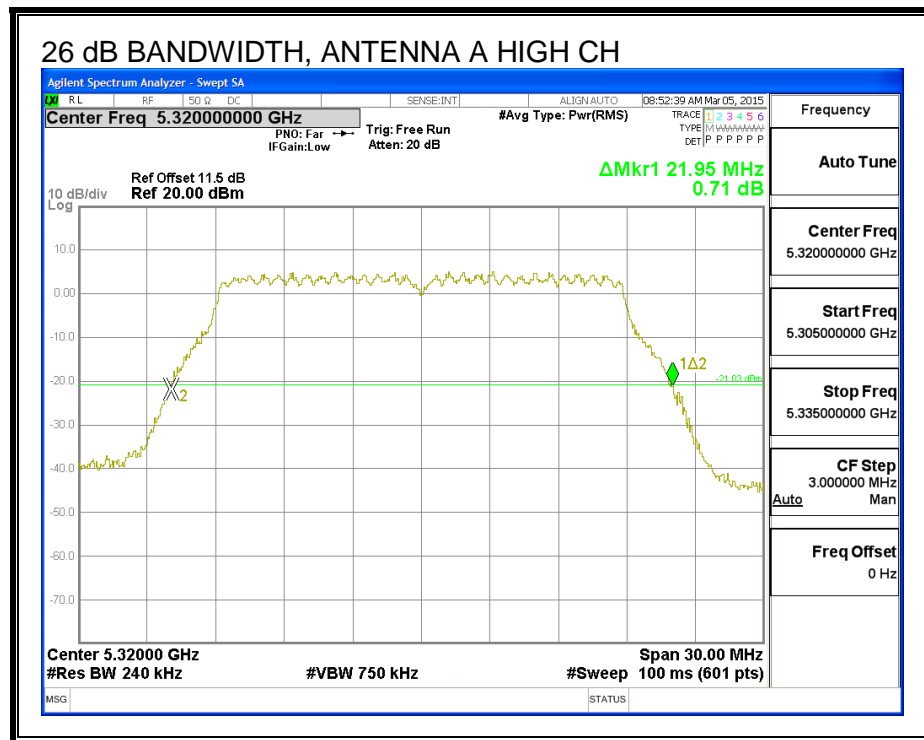
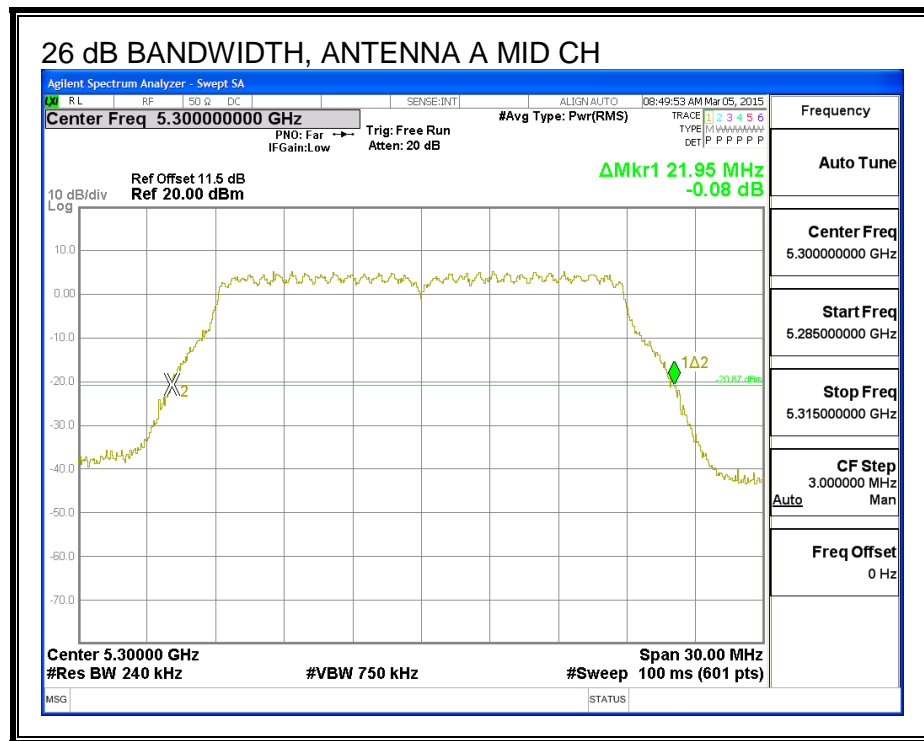
26 dB BANDWIDTH, ANTENNA B





26 dB BANDWIDTH, ANTENNA A





8.10.2. 99% BANDWIDTH

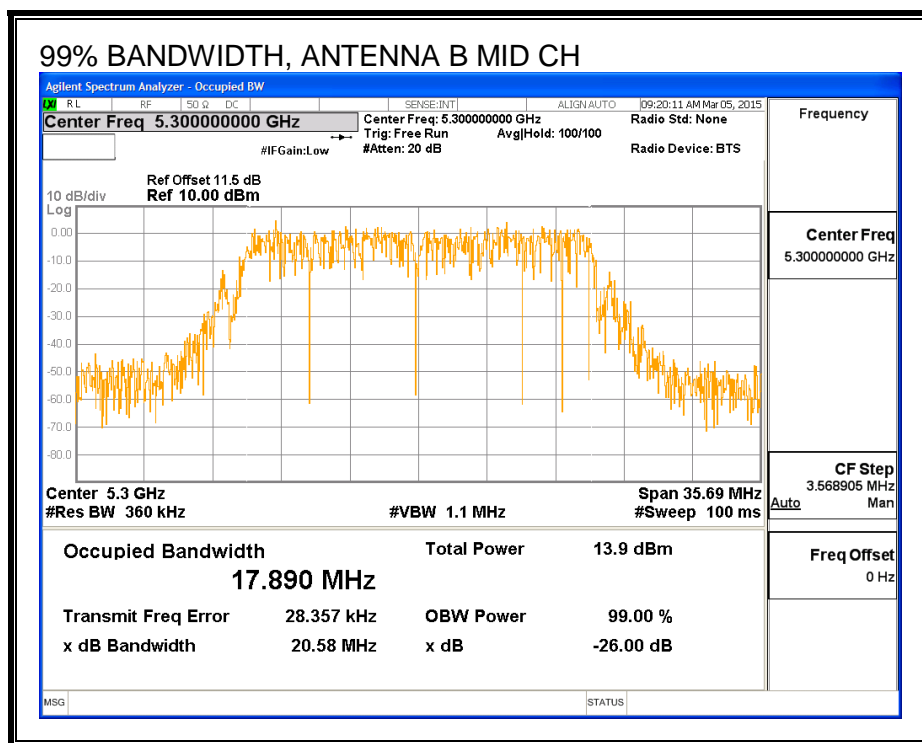
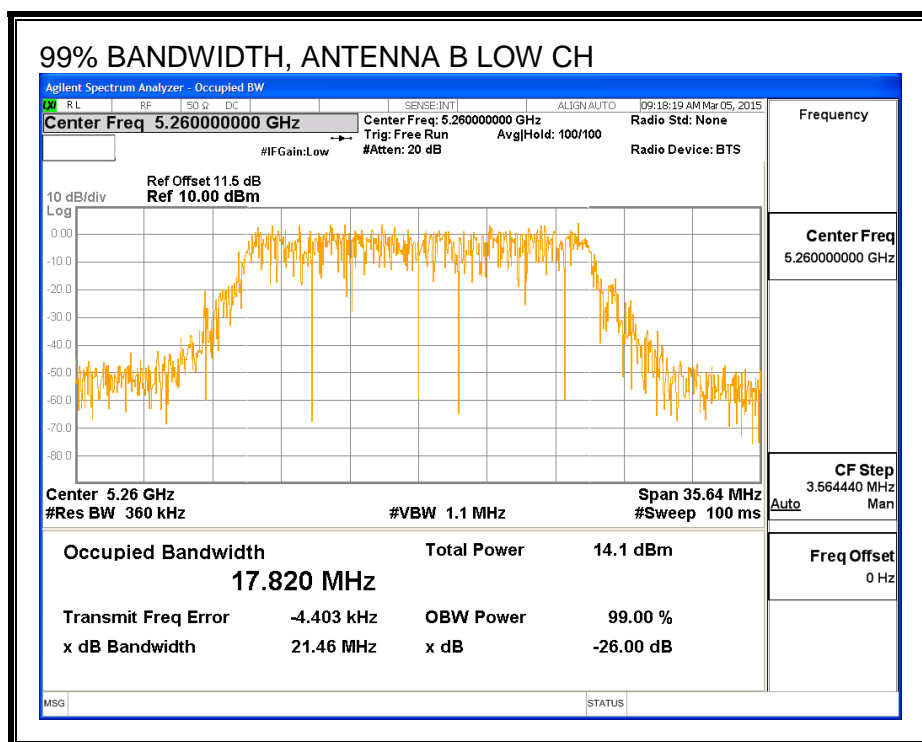
LIMITS

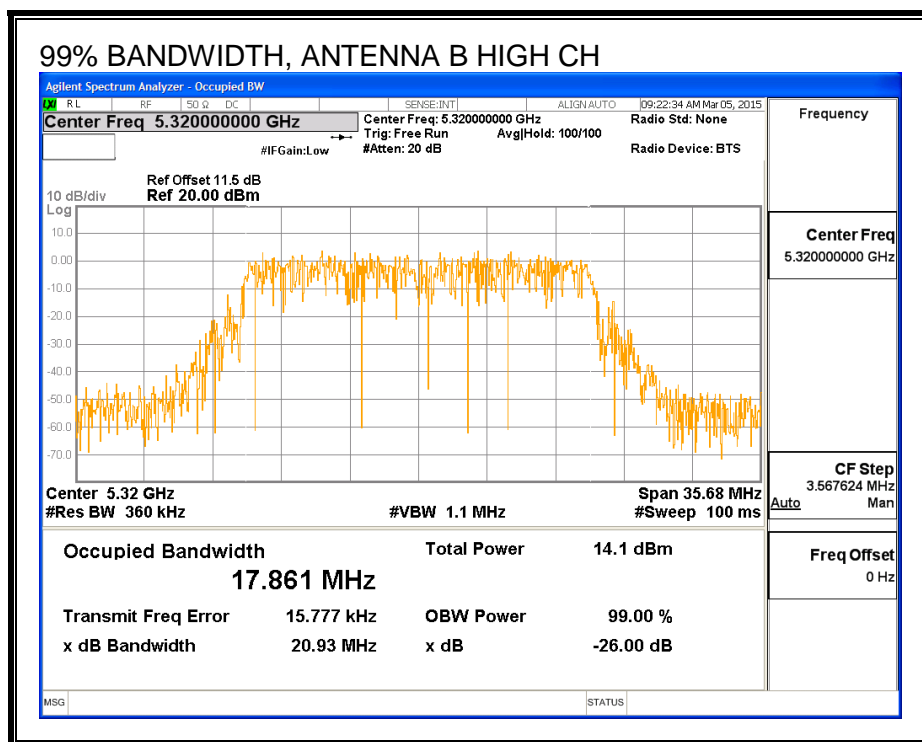
None; for reporting purposes only.

RESULTS

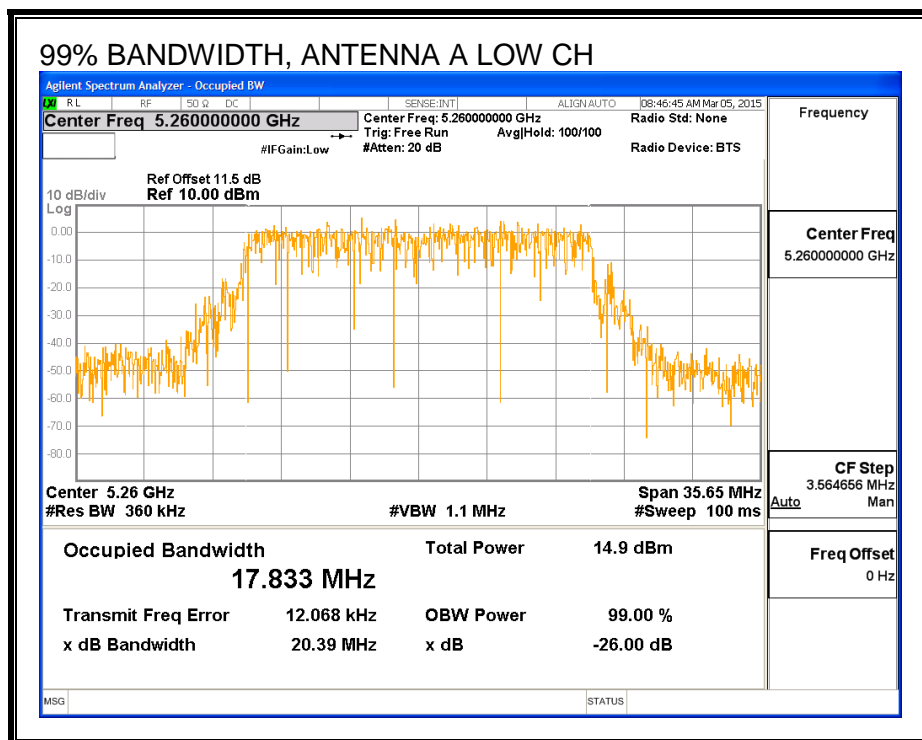
| Channel | Frequency (MHz) | 99% BW Chain 0 (MHz) | 99% BW Chain 1 (MHz) |
|---------|--------------------|----------------------------|----------------------------|
| Low | 5260 | 17.82 | 17.83 |
| Mid | 5300 | 17.89 | 17.78 |
| High | 5320 | 17.86 | 17.84 |

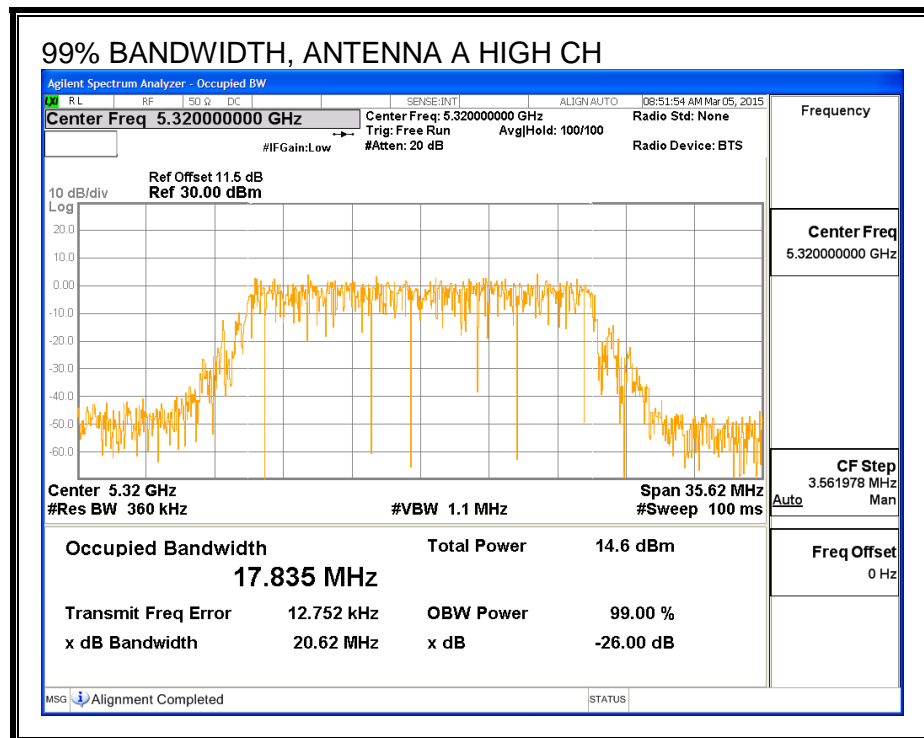
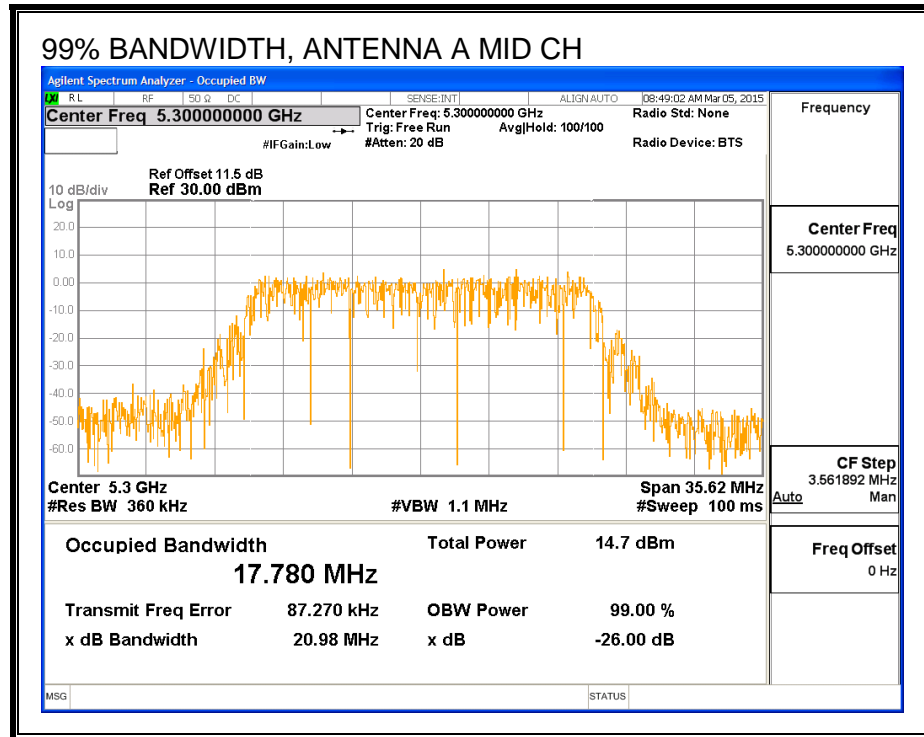
99% BANDWIDTH, ANTENNA B





99% BANDWIDTH, ANTENNA A





8.10.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

Average Power Results

| Channel | Frequency | Antenna B | Antenna A | Total |
|---------|-----------|-------------|-------------|-------------|
| | (MHz) | Power (dBm) | Power (dBm) | Power (dBm) |
| Low | 5260 | 15.38 | 15.35 | 18.38 |
| Mid | 5300 | 15.44 | 15.37 | 18.42 |
| High | 5320 | 15.23 | 15.41 | 18.33 |

8.10.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.25–5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

| Antenna B | Antenna A | Uncorrelated Chains |
|--------------------|--------------------|------------------------|
| Antenna Gain (dBi) | Antenna Gain (dBi) | Directional Gain (dBi) |
| 3.30 | 3.10 | 3.20 |

The TX chains are correlated and the antenna gain is unequal among the chains. The directional gain is:

| Antenna B | Antenna A | Correlated Chains |
|--------------------|--------------------|------------------------|
| Antenna Gain (dBi) | Antenna Gain (dBi) | Directional Gain (dBi) |
| 3.30 | 3.10 | 6.21 |

RESULTS

Bandwidth, Antenna Gain and Limits

| Channel | Frequency (MHz) | Min 26 dB BW (MHz) | Directional Gain for Power (dBi) | Directional Gain for PSD (dBi) | Power Limit (dBm) | PSD Limit (dBm) |
|---------|--------------------|-----------------------------|---|---|-------------------------|-----------------------|
| Low | 5260 | 21.95 | 3.20 | 6.21 | 24.00 | 10.79 |
| Mid | 5300 | 21.95 | 3.20 | 6.21 | 24.00 | 10.79 |
| High | 5320 | 21.95 | 3.20 | 6.21 | 24.00 | 10.79 |

| | | |
|---------------------------|------|---|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd Power & PSD |
|---------------------------|------|---|

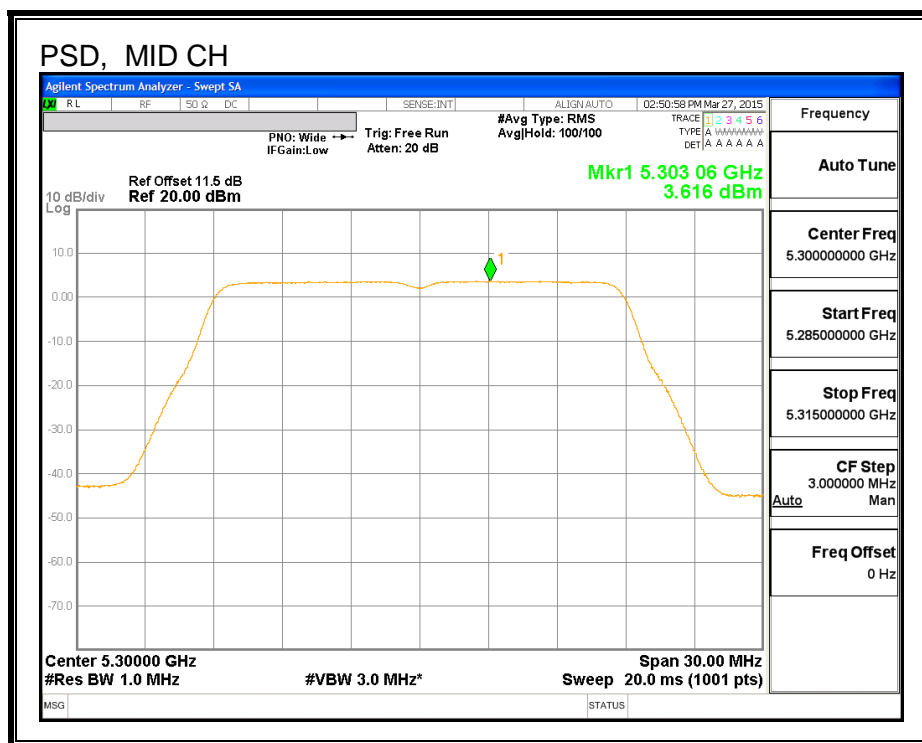
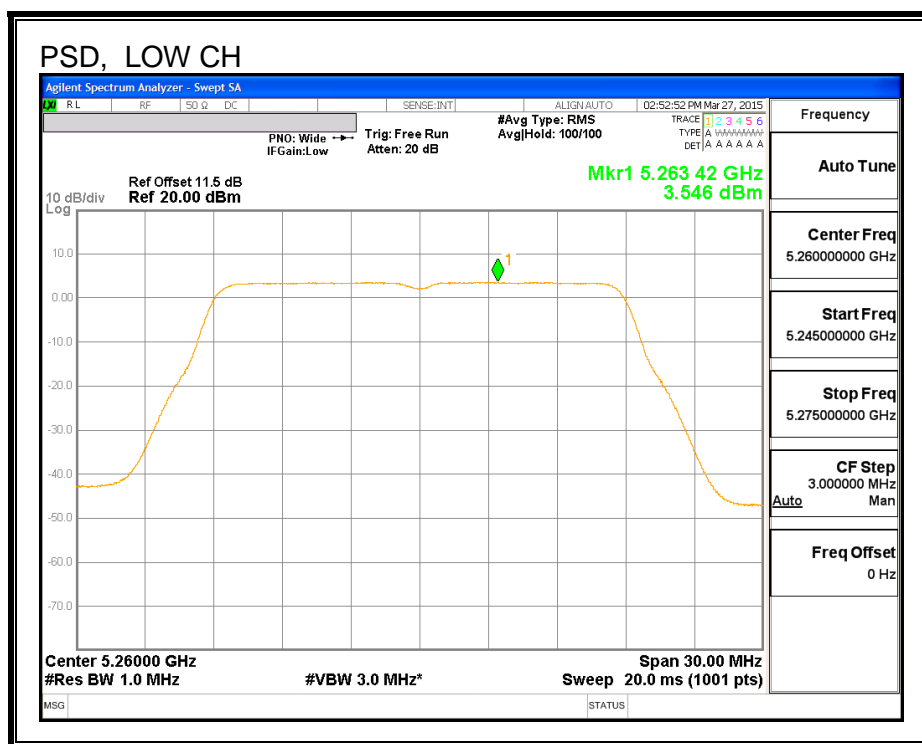
Output Power Results

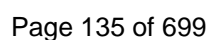
| Channel | Frequency (MHz) | Antenna B Meas Power (dBm) | Antenna A Meas Power (dBm) | Total Corr'd Power (dBm) | Power Limit (dBm) | Power Margin (dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low | 5260 | 15.38 | 15.35 | 18.38 | 24.00 | -5.62 |
| Mid | 5300 | 15.44 | 15.37 | 18.42 | 24.00 | -5.58 |
| High | 5320 | 15.23 | 15.41 | 18.33 | 24.00 | -5.67 |

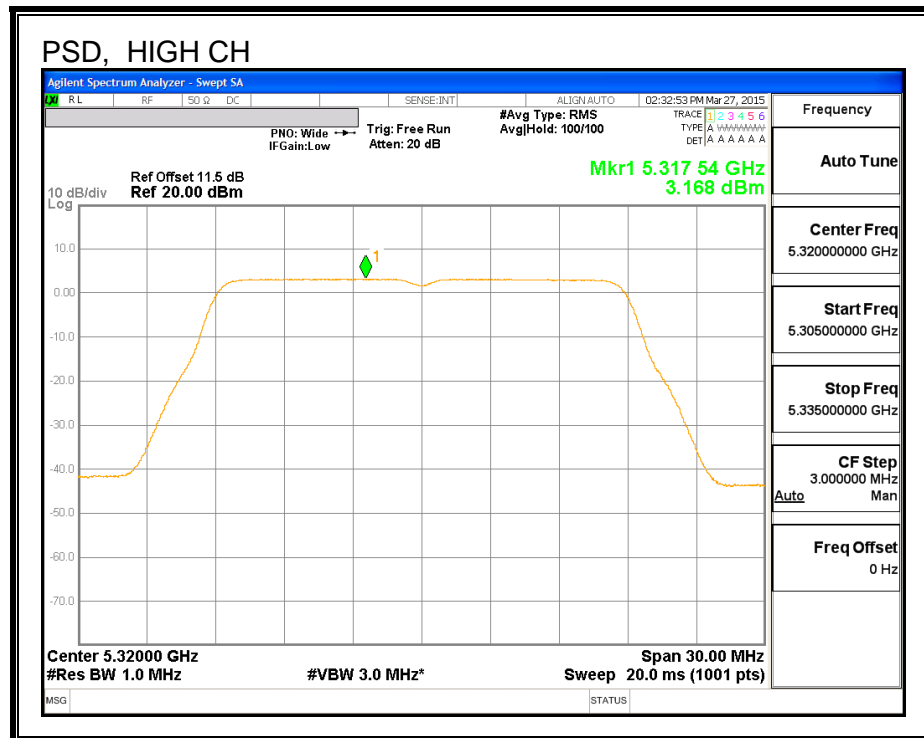
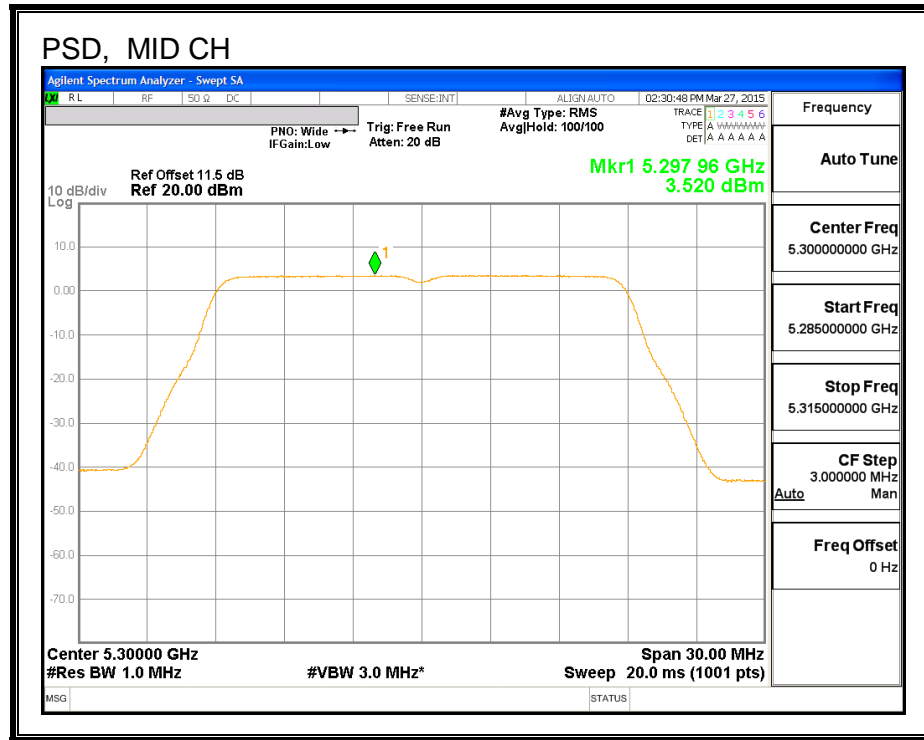
PSD Results

| Channel | Frequency (MHz) | Antenna B Meas PSD (dBm) | Antenna A Meas PSD (dBm) | Total Corr'd PSD (dBm) | PSD Limit (dBm) | PSD Margin (dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|---------------------------------|-----------------------|-----------------------|
| Low | 5260 | 3.55 | 3.34 | 6.45 | 10.79 | -4.34 |
| Mid | 5300 | 3.62 | 3.52 | 6.58 | 10.79 | -4.21 |
| High | 5320 | 3.27 | 3.17 | 6.23 | 10.79 | -4.56 |

PSD, ANTENNA B







8.11. 802.11n HT20 2Tx STBC MODE IN THE 5.3 GHz BAND

8.11.1. 26 dB BANDWIDTH

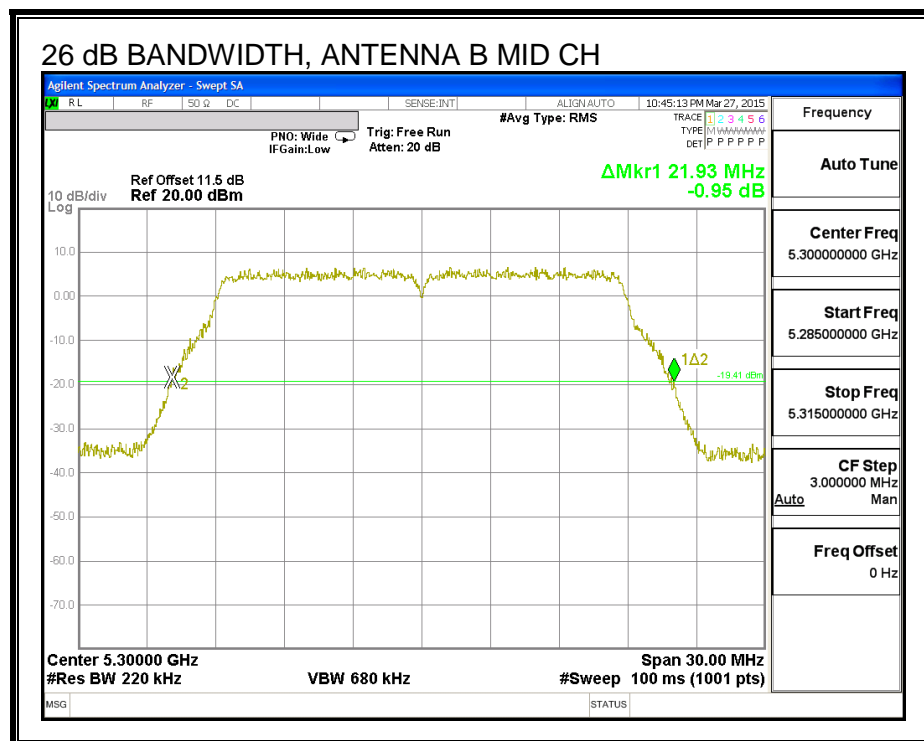
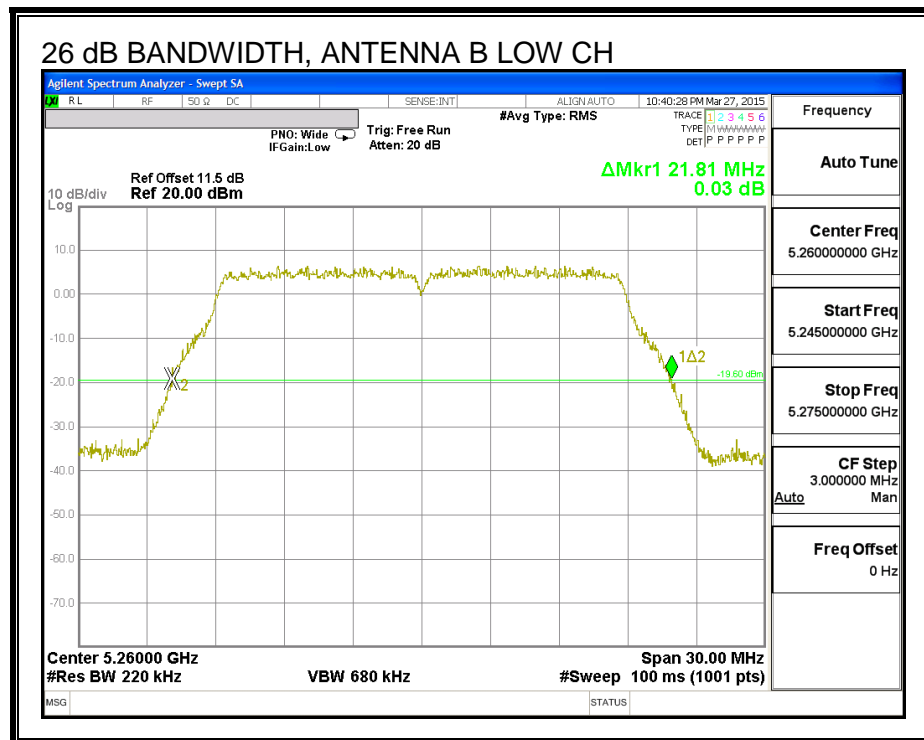
LIMITS

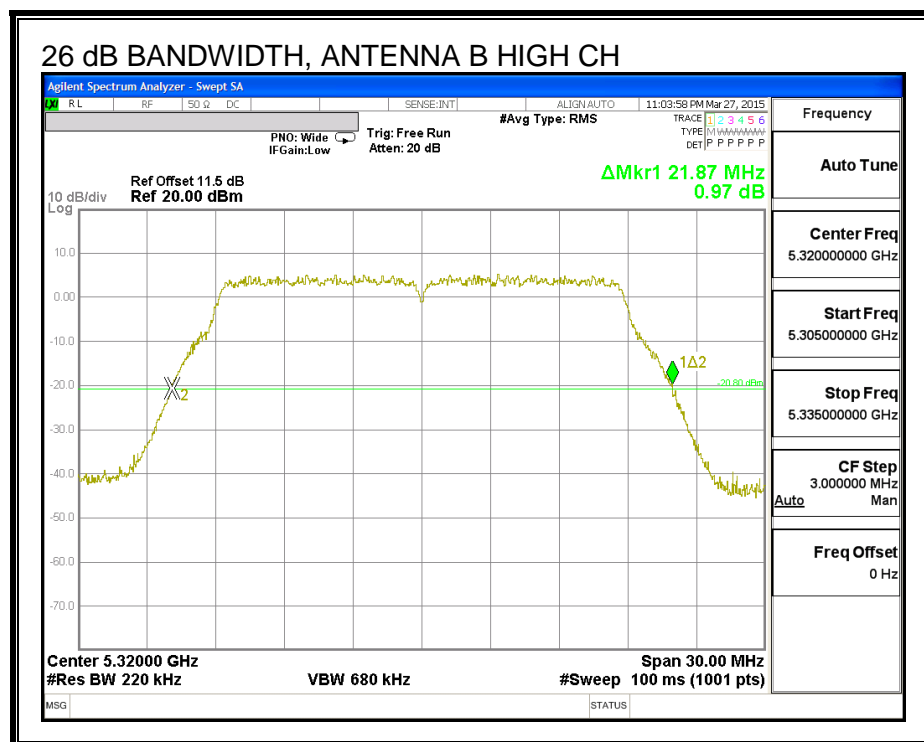
None; for reporting purposes only.

RESULTS

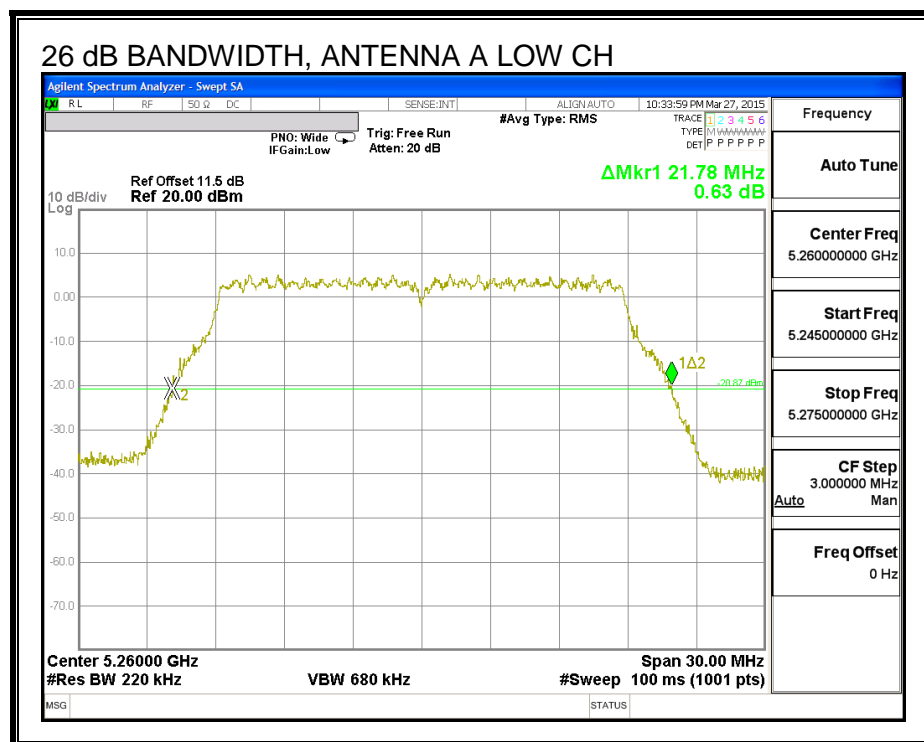
| Channel | Frequency (MHz) | 26 dB BW Antenna B (MHz) | 26 dB BW Antenna A (MHz) |
|---------|--------------------|--------------------------------|--------------------------------|
| Low | 5260 | 21.81 | 21.78 |
| Mid | 5300 | 21.93 | 21.72 |
| High | 5320 | 21.87 | 21.81 |

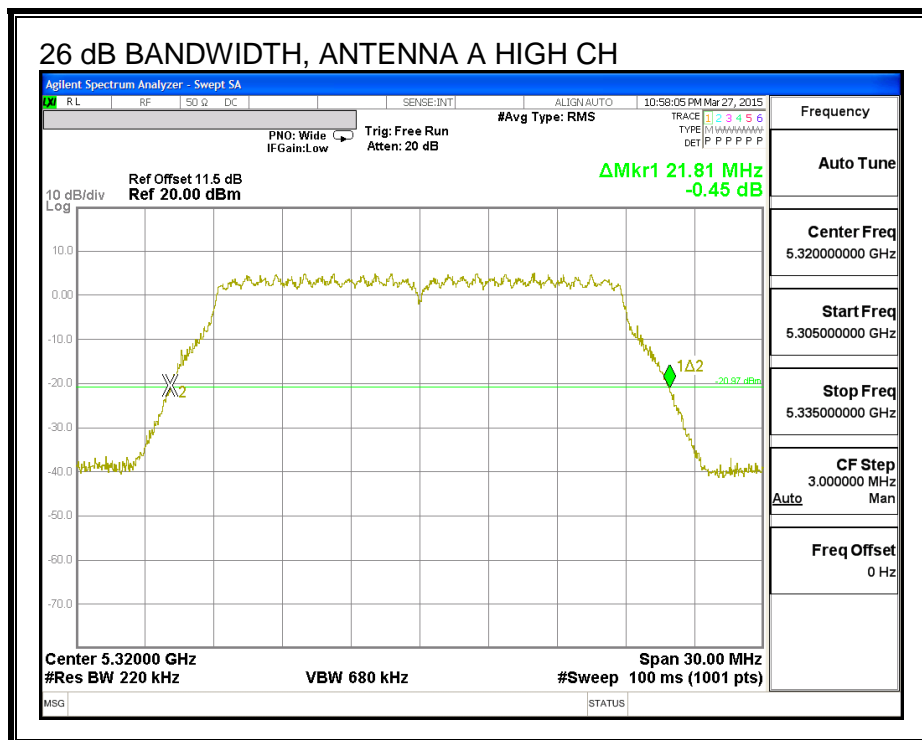
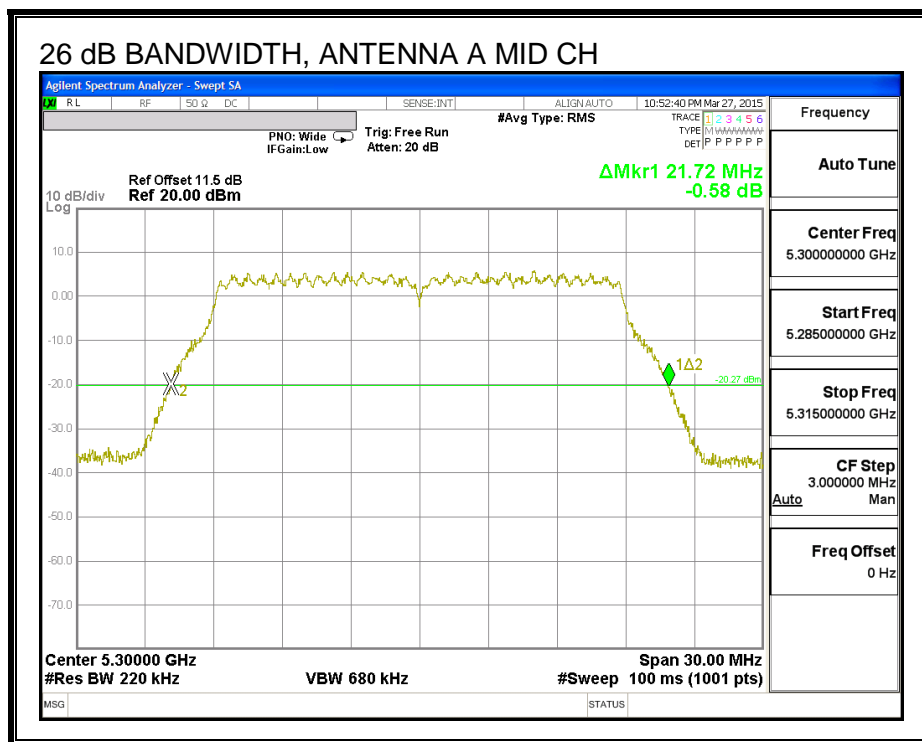
26 dB BANDWIDTH, ANTENNA B





26 dB BANDWIDTH, ANTENNA A





8.11.2. 99% BANDWIDTH

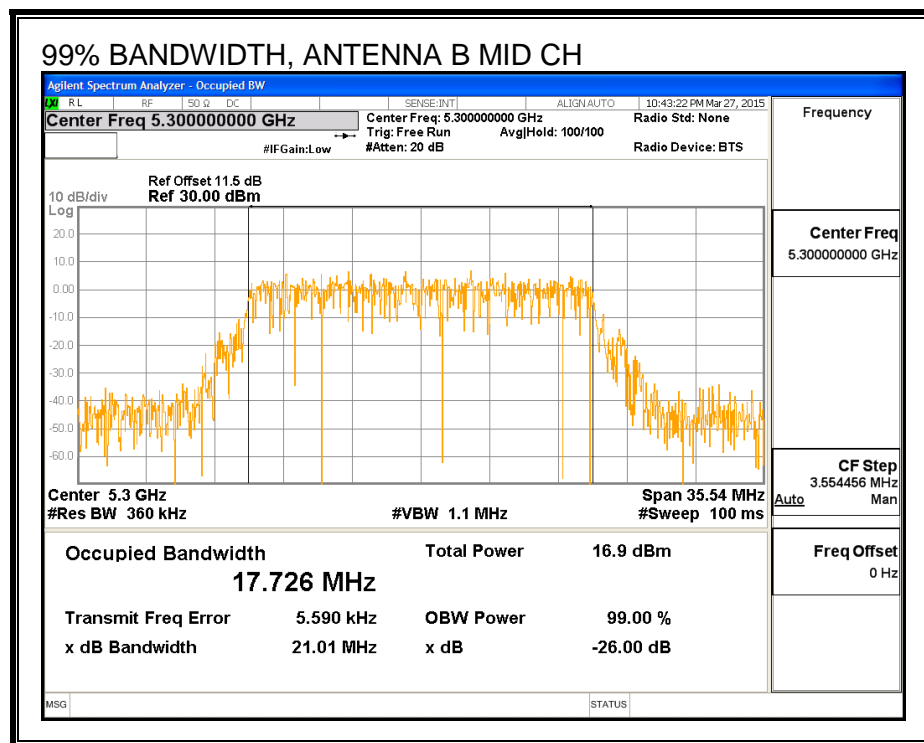
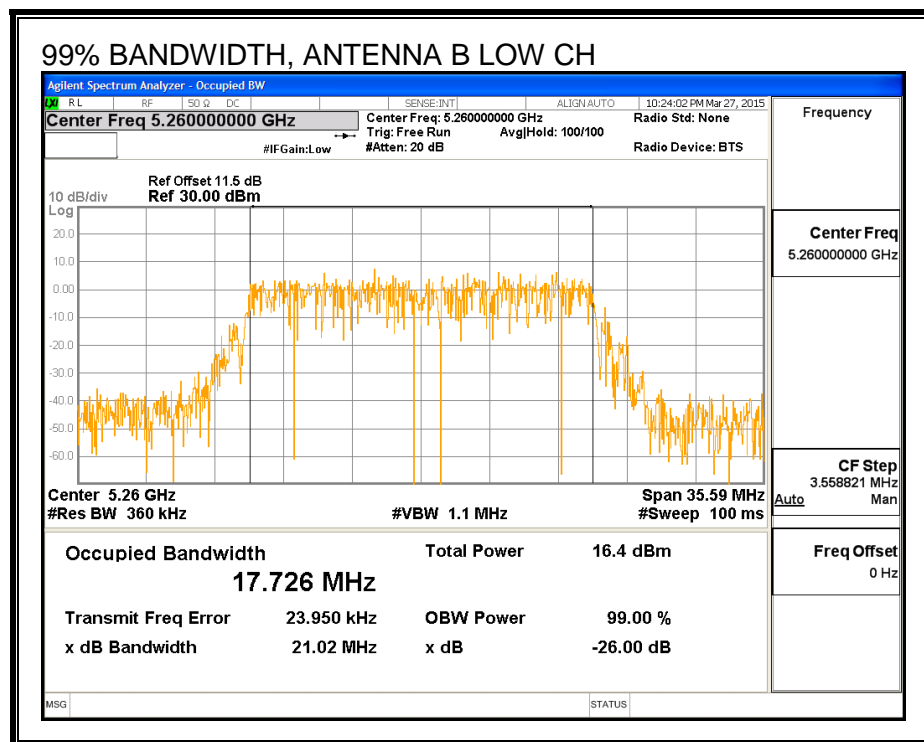
LIMITS

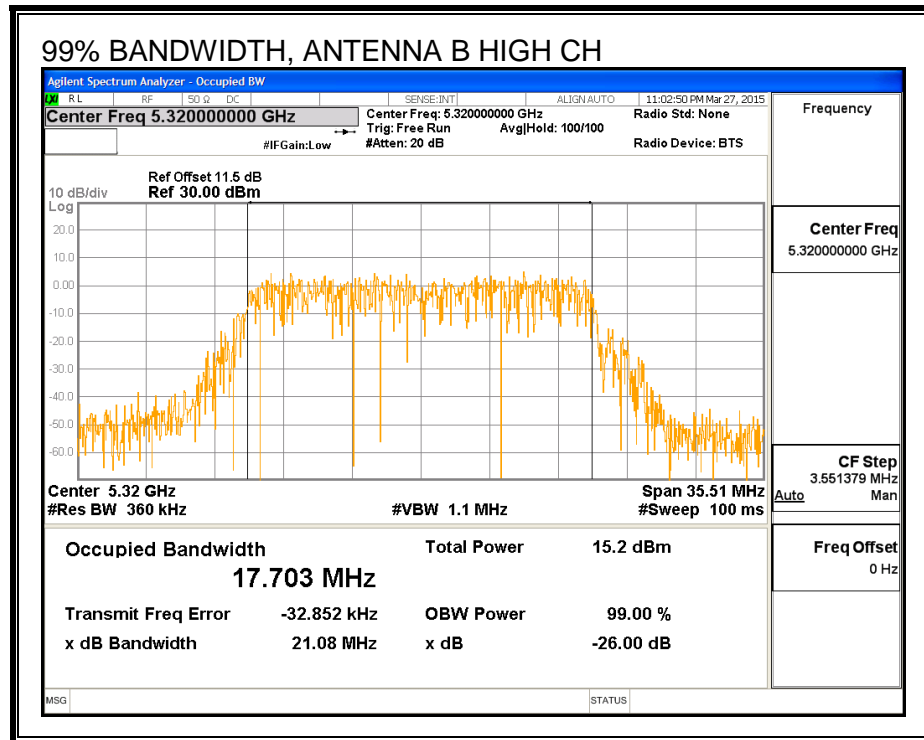
None; for reporting purposes only.

RESULTS

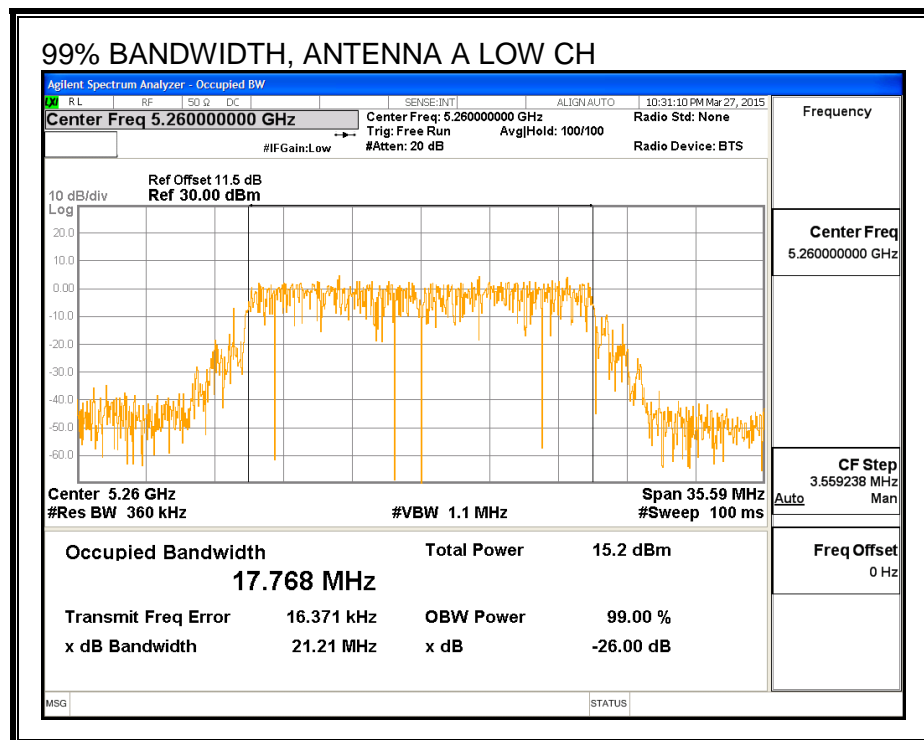
| Channel | Frequency (MHz) | 99% BW Antenna B (MHz) | 99% BW Antenna A (MHz) |
|---------|--------------------|------------------------------|------------------------------|
| Low | 5260 | 17.726 | 17.768 |
| Mid | 5300 | 17.726 | 17.819 |
| High | 5320 | 17.703 | 17.847 |

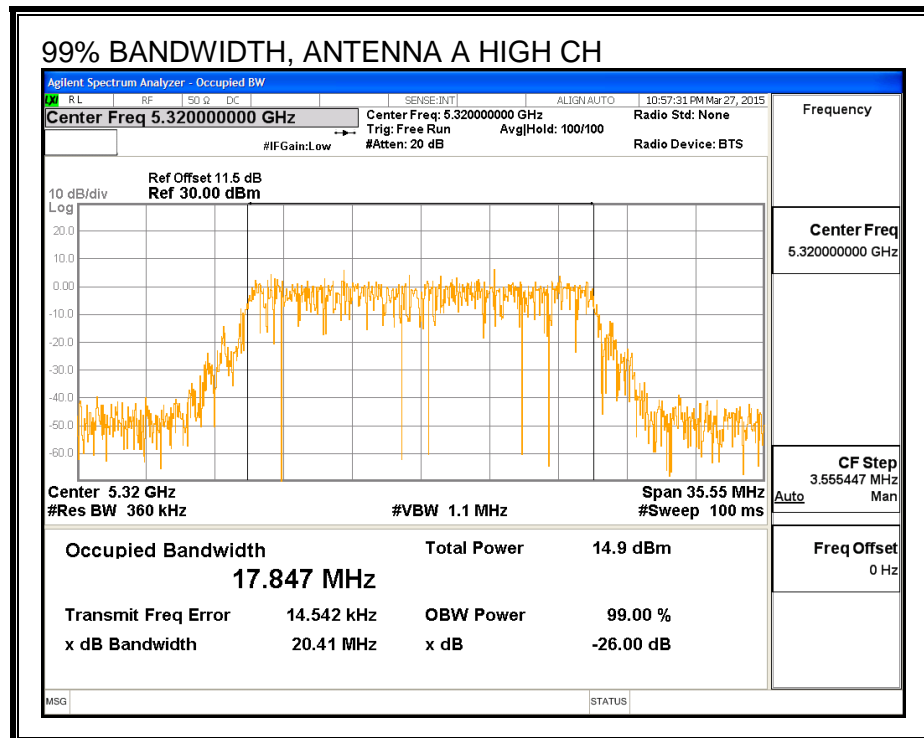
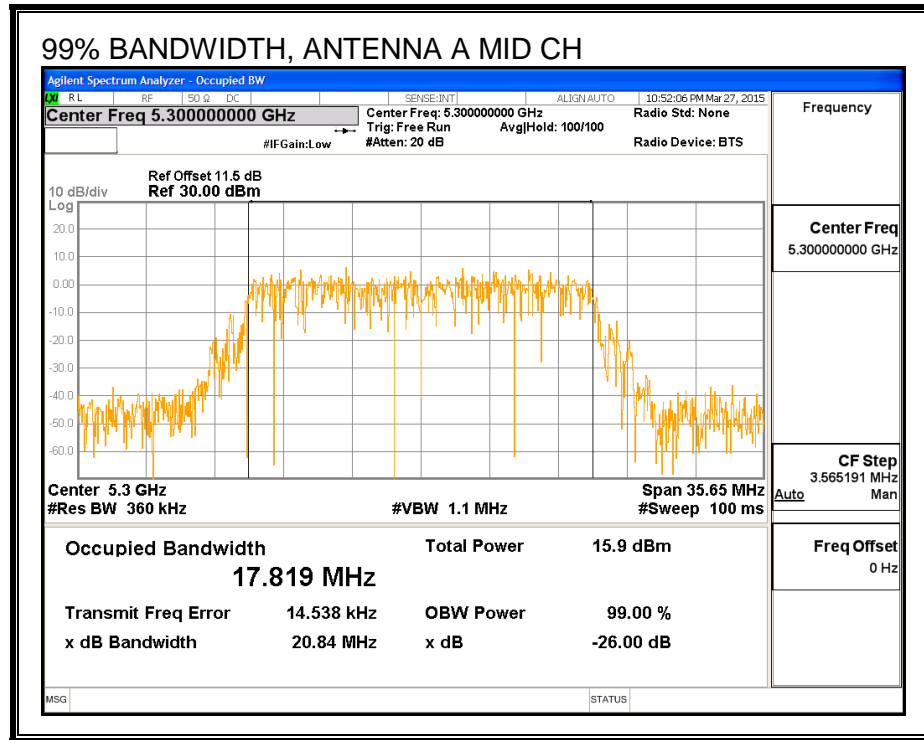
99% BANDWIDTH, ANTENNA B





99% BANDWIDTH, ANTENNA A





8.11.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

Average Power Results

| Channel | Frequency (MHz) | Antenna B Power (dBm) | Antenna A Power (dBm) | Total Power (dBm) |
|---------|--------------------|-----------------------------|--------------------------------|-------------------------|
| Low | 5260 | 16.96 | 15.99 | 19.51 |
| Mid | 5300 | 16.94 | 15.92 | 19.47 |
| High | 5320 | 15.49 | 15.40 | 18.46 |

8.11.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.25–5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

| Antenna B Antenna Gain (dBi) | Antenna A Antenna Gain (dBi) | Uncorrelated Chains Directional Gain (dBi) |
|---------------------------------------|---------------------------------------|---|
| 3.30 | 3.10 | 3.20 |

The TX chains are correlated and the antenna gain is unequal among the chains. The directional gain is:

| Antenna B Antenna Gain (dBi) | Antenna A Antenna Gain (dBi) | Correlated Chains Directional Gain (dBi) |
|---------------------------------------|---------------------------------------|---|
| 3.30 | 3.10 | 6.21 |

RESULTS

Bandwidth, Antenna Gain and Limits

| Channel | Frequency (MHz) | Min 26 dB BW (MHz) | Directional Gain for Power (dBi) | Directional Gain for PSD (dBi) | Power Limit (dBm) | PSD Limit (dBm) |
|---------|--------------------|-----------------------------|---|---|-------------------------|-----------------------|
| Low | 5260 | 21.78 | 3.20 | 3.20 | 24.00 | 11.00 |
| Mid | 5300 | 21.72 | 3.20 | 3.20 | 24.00 | 11.00 |
| High | 5320 | 21.81 | 3.20 | 3.20 | 24.00 | 11.00 |

| | | |
|---------------------------|------|---|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd Power & PSD |
|---------------------------|------|---|

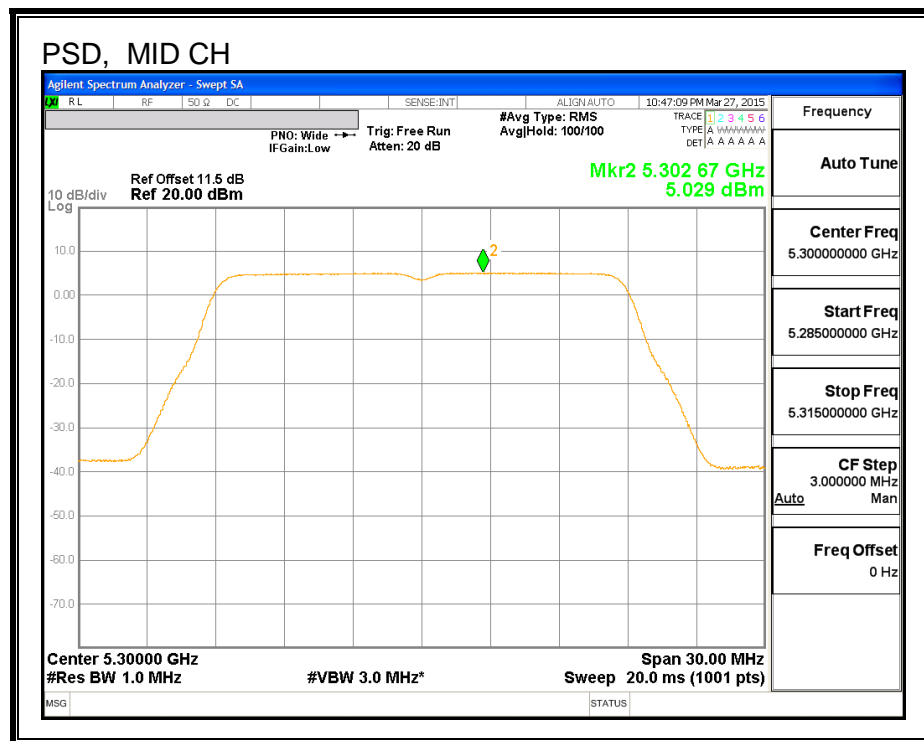
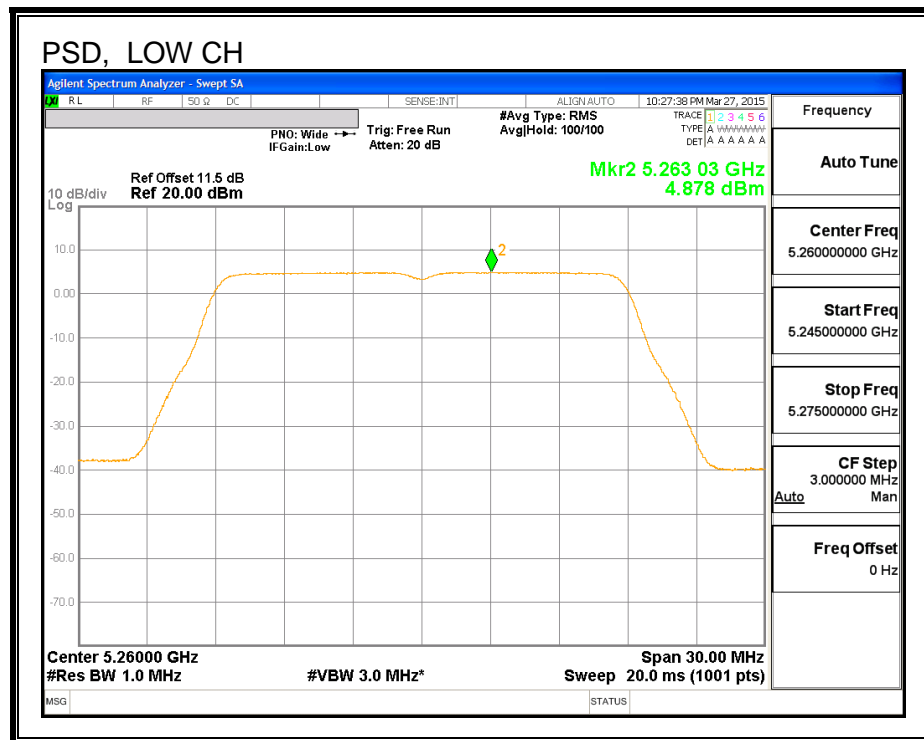
Output Power Results

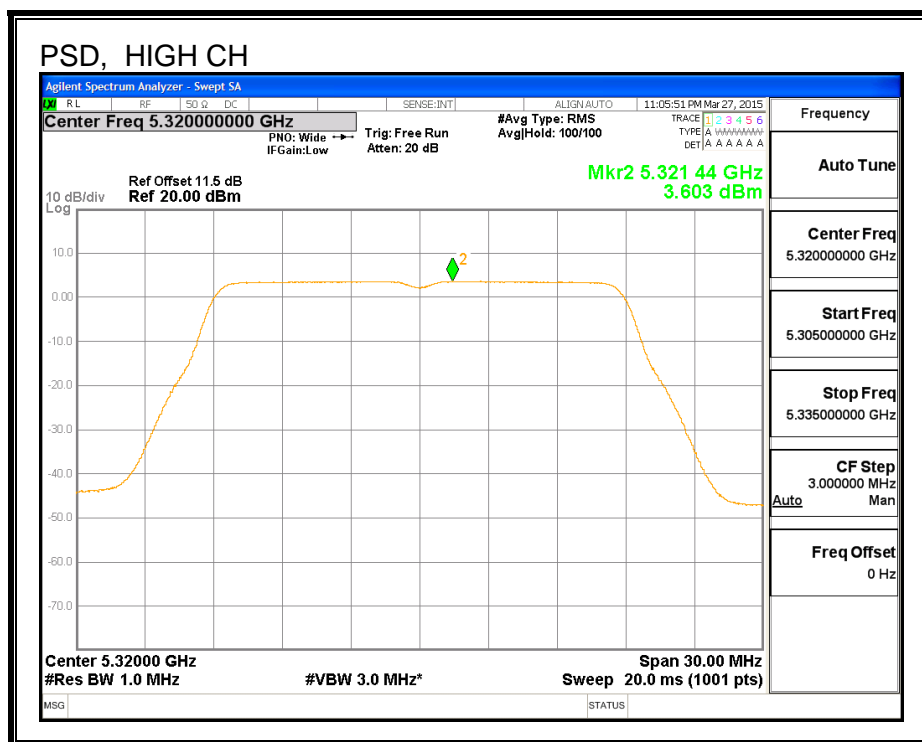
| Channel | Frequency (MHz) | Antenna B Meas Power (dBm) | Antenna A Meas Power (dBm) | Total Corr'd Power (dBm) | Power Limit (dBm) | Power Margin (dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low | 5260 | 16.96 | 15.99 | 19.51 | 24.00 | -4.49 |
| Mid | 5300 | 16.94 | 15.92 | 19.47 | 24.00 | -4.53 |
| High | 5320 | 15.49 | 15.40 | 18.46 | 24.00 | -5.54 |

PSD Results

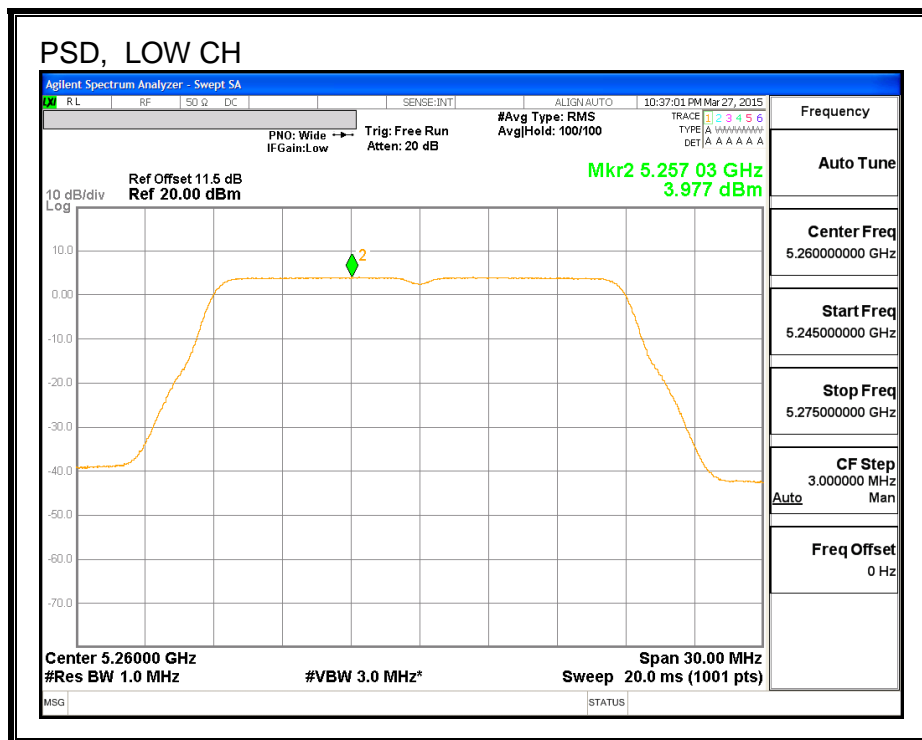
| Channel | Frequency (MHz) | Antenna B Meas PSD (dBm) | Antenna A Meas PSD (dBm) | Total Corr'd PSD (dBm) | PSD Limit (dBm) | PSD Margin (dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|---------------------------------|-----------------------|-----------------------|
| Low | 5260 | 4.88 | 3.98 | 7.46 | 11.00 | -3.54 |
| Mid | 5300 | 5.03 | 4.01 | 7.56 | 11.00 | -3.44 |
| High | 5320 | 3.60 | 3.43 | 6.53 | 11.00 | -4.47 |

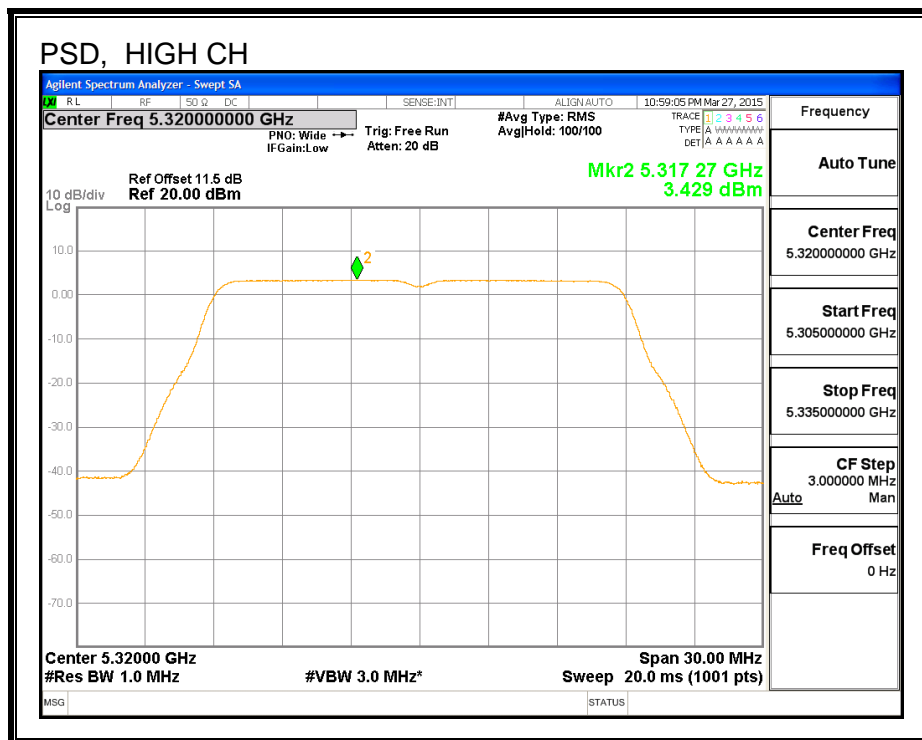
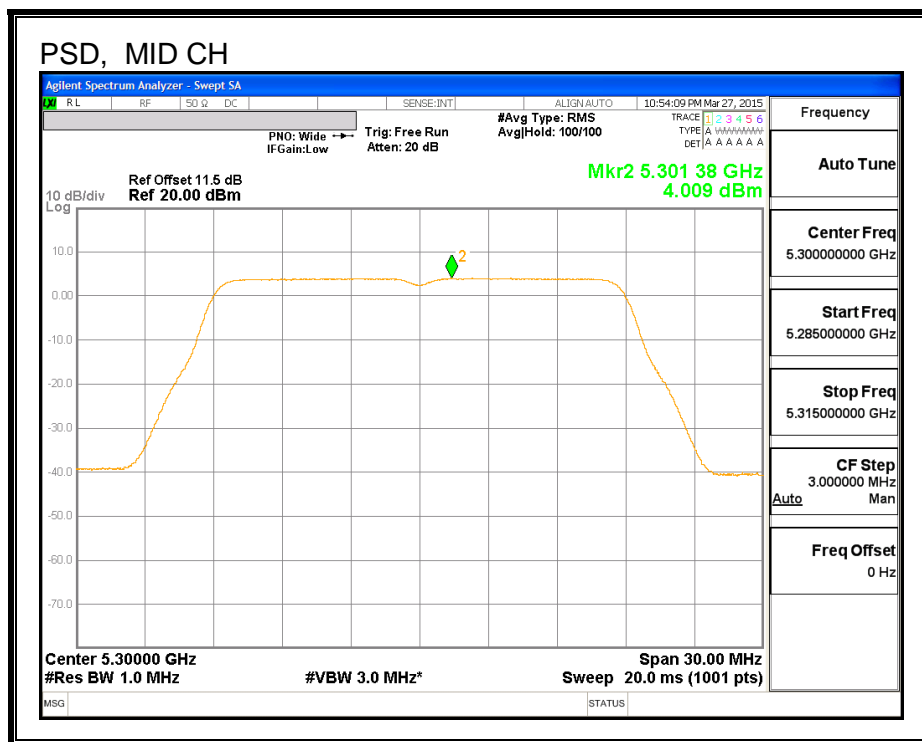
PSD, ANTENNA B





PSD, ANTENNA A





8.12. 802.11n HT40 SISO MODE IN THE 5.3 GHz BAND

8.12.1. 26 dB BANDWIDTH

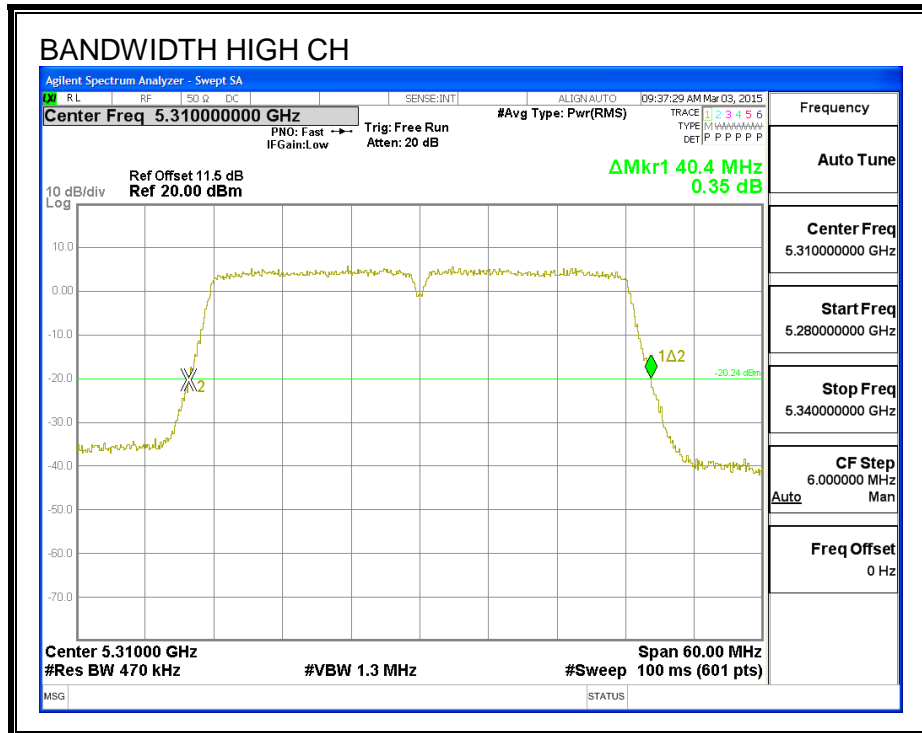
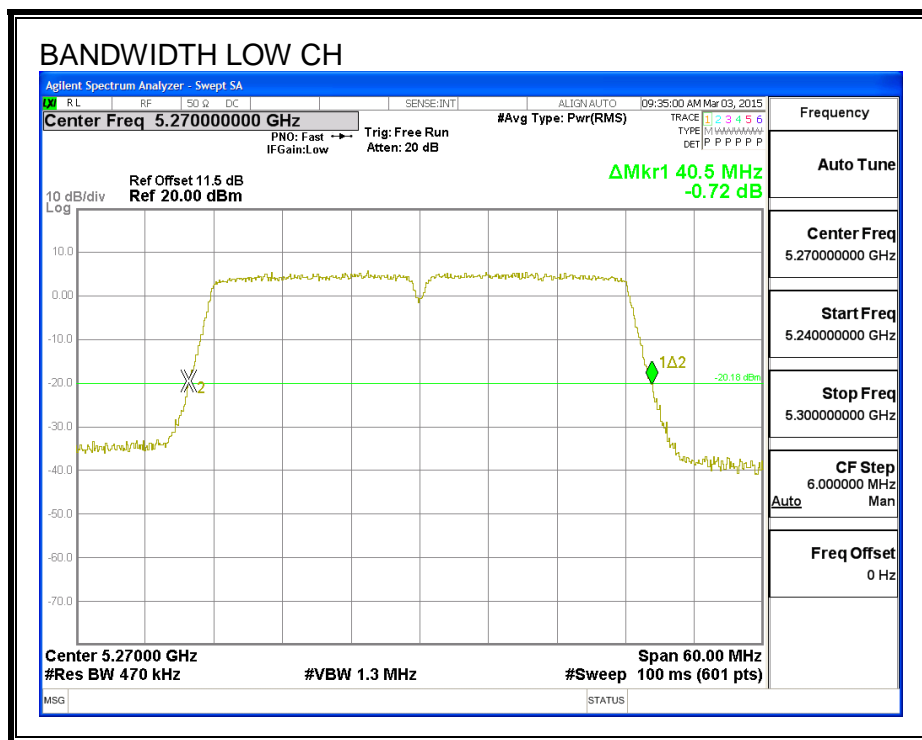
LIMITS

None; for reporting purposes only.

RESULTS

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) |
|---------|--------------------|--------------------------|
| Low | 5270 | 40.50 |
| High | 5310 | 40.40 |

26 dB BANDWIDTH



8.12.2. 99% BANDWIDTH

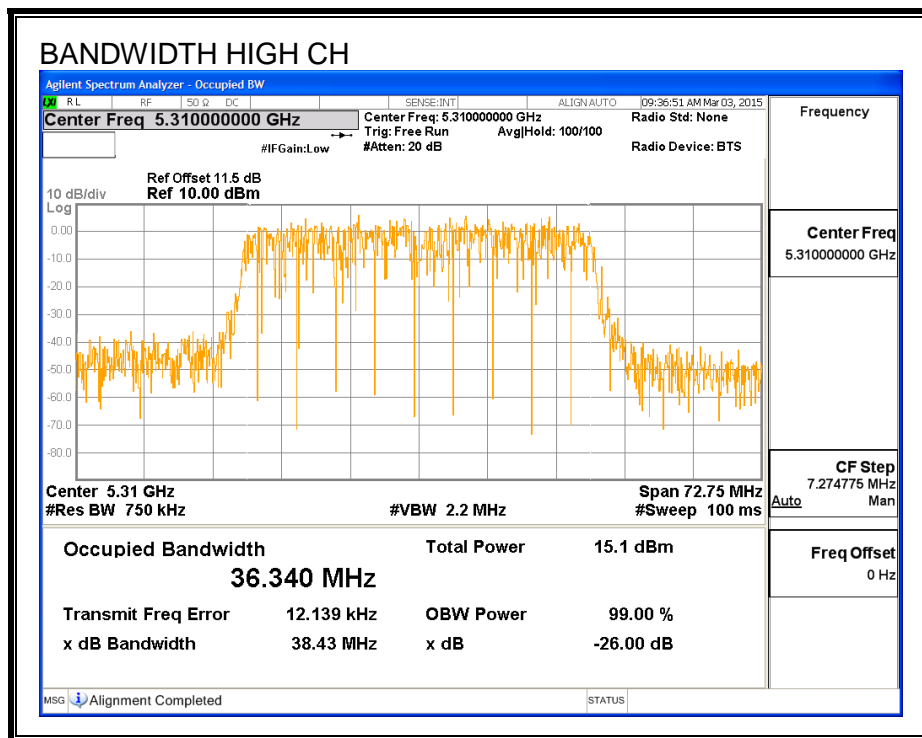
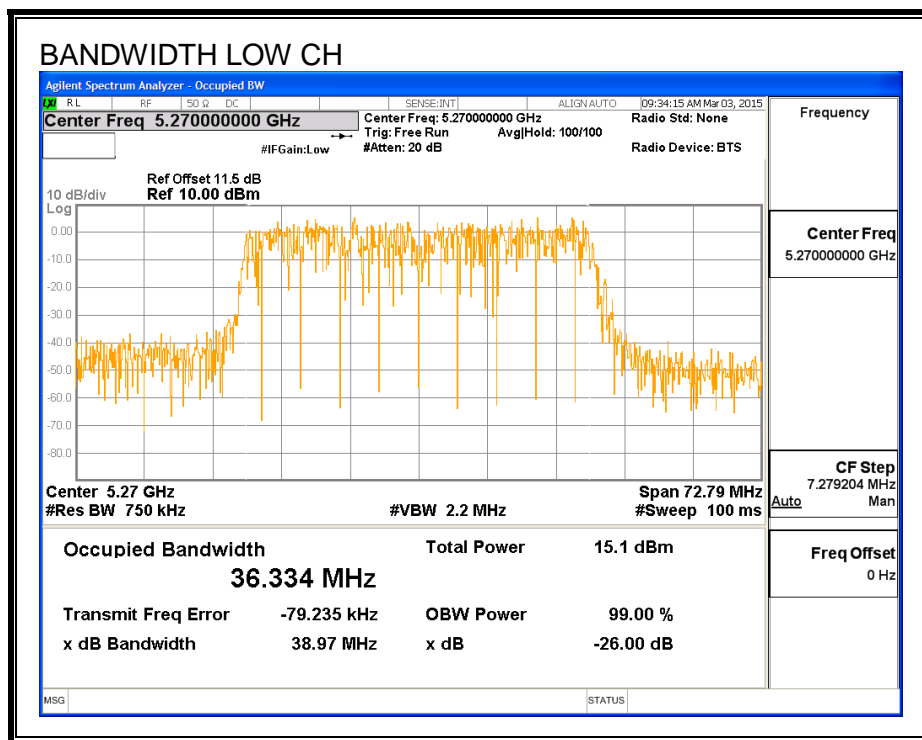
LIMITS

None; for reporting purposes only.

RESULTS

| Channel | Frequency (MHz) | 99% Bandwidth (MHz) |
|---------|--------------------|------------------------|
| Low | 5270 | 36.334 |
| High | 5310 | 36.340 |

99% BANDWIDTH



8.12.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

| Channel | Frequency (MHz) | Power (dBm) |
|---------|--------------------|----------------|
| Low | 5270 | 16.85 |
| High | 5310 | 14.80 |

8.12.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.25–5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS

Bandwidth, Antenna Gain, and Limits

| Channel | Frequency (MHz) | Min 26 dB BW (MHz) | Directional Gain (dBi) | Power Limit (dBm) | PSD Limit (dBm) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|-----------------------|
| Low | 5270 | 40.50 | 3.30 | 24.00 | 11.00 |
| High | 5310 | 40.40 | 3.30 | 24.00 | 11.00 |

| | | |
|---------------------------|------|---|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd Power & PSD |
|---------------------------|------|---|

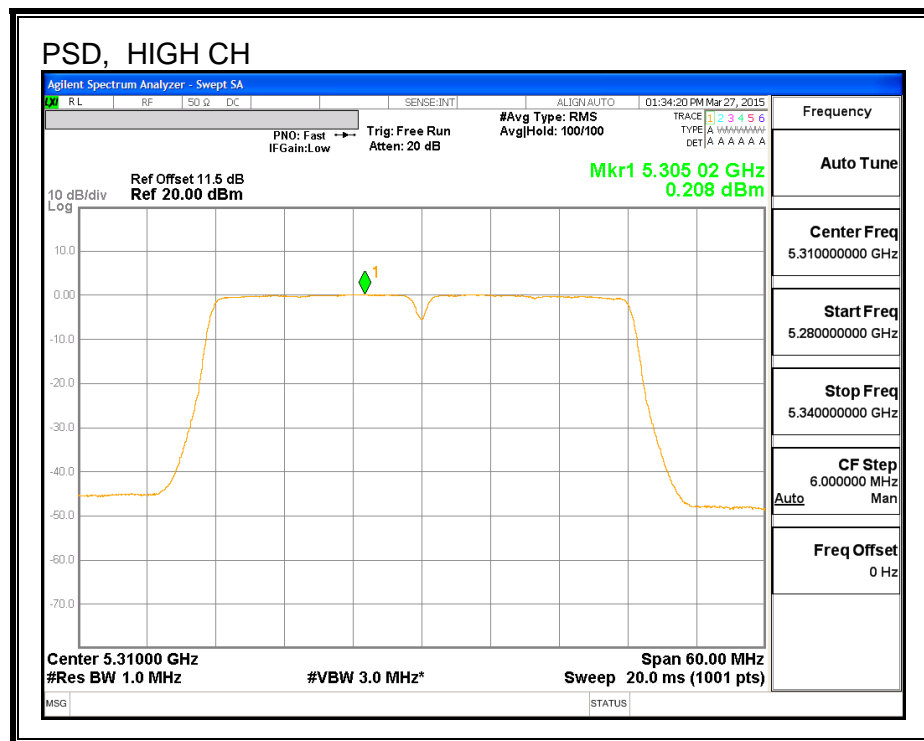
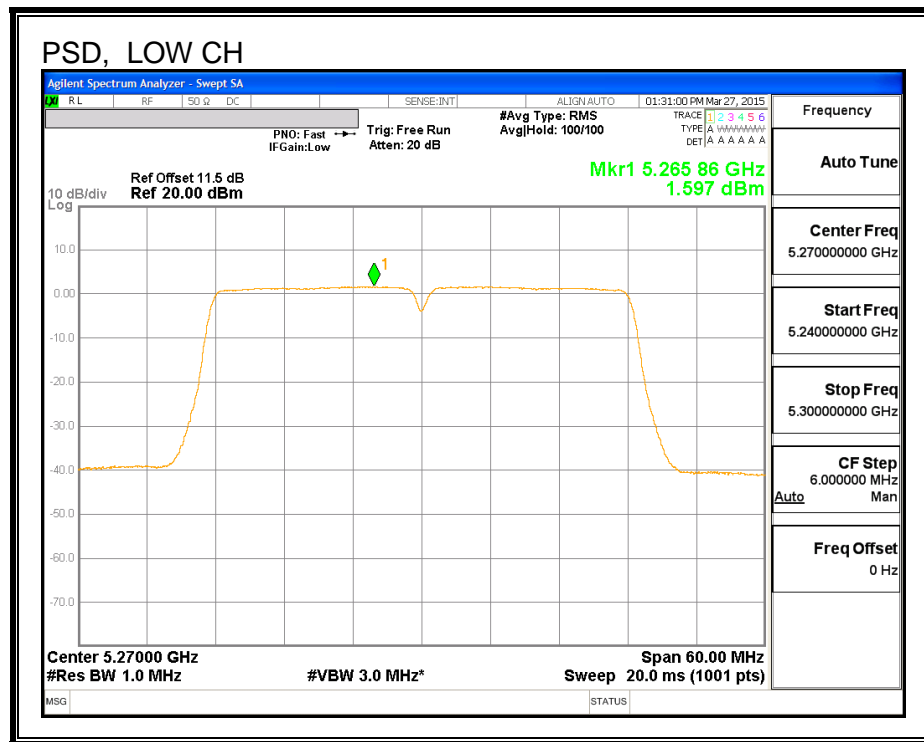
Output Power Results

| Channel | Frequency (MHz) | Antenna B Meas Power (dBm) | Total Corr'd Power (dBm) | Power Limit (dBm) | Power Margin (dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low | 5270 | 16.85 | 16.85 | 24.00 | -7.15 |
| High | 5310 | 14.80 | 14.80 | 24.00 | -9.20 |

PSD Results

| Channel | Frequency (MHz) | Antenna B Meas PSD (dBm) | Total Corr'd PSD (dBm) | PSD Limit (dBm) | PSD Margin (dB) |
|---------|--------------------|-----------------------------------|---------------------------------|-----------------------|-----------------------|
| Low | 5270 | 1.60 | 1.60 | 11.00 | -9.40 |
| High | 5310 | 0.21 | 0.21 | 11.00 | -10.79 |

PSD



8.13. 802.11n HT40 2Tx CDD MODE IN THE 5.3 GHz BAND

8.13.1. 26 dB BANDWIDTH

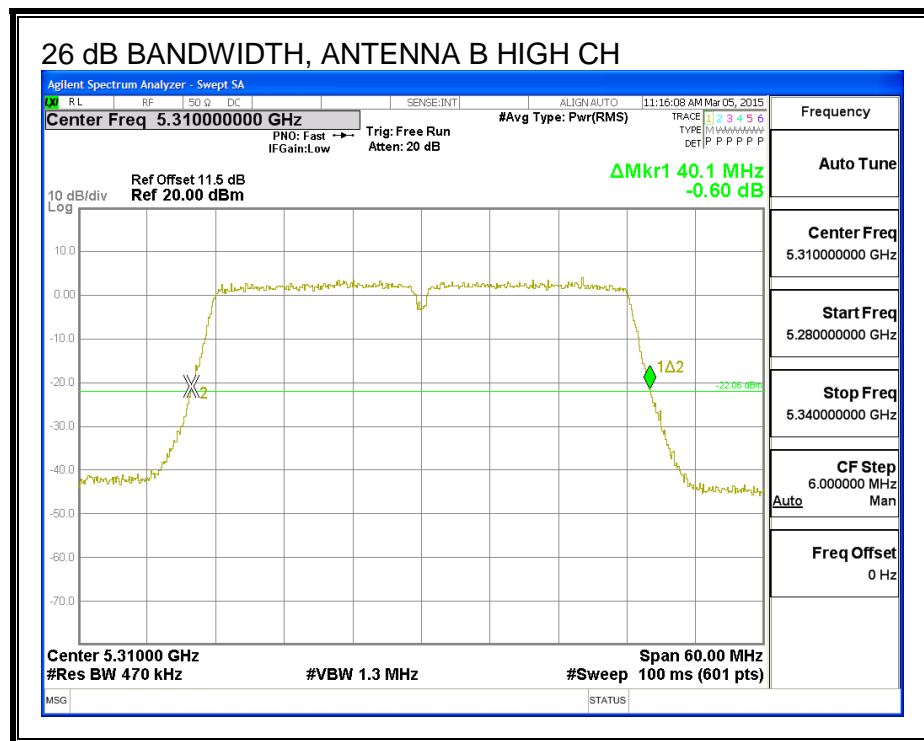
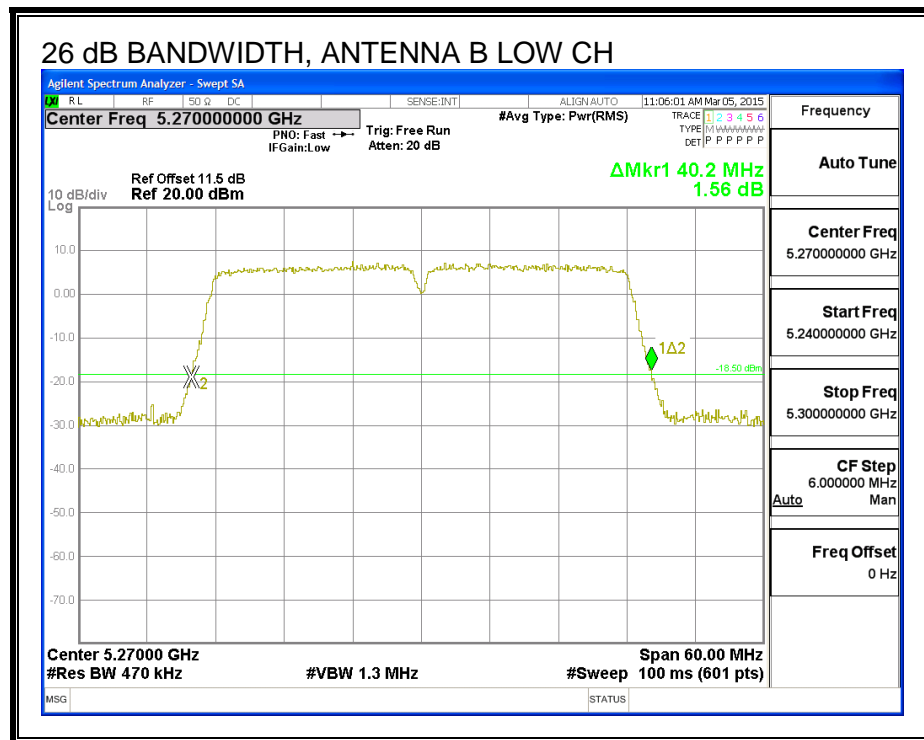
LIMITS

None; for reporting purposes only.

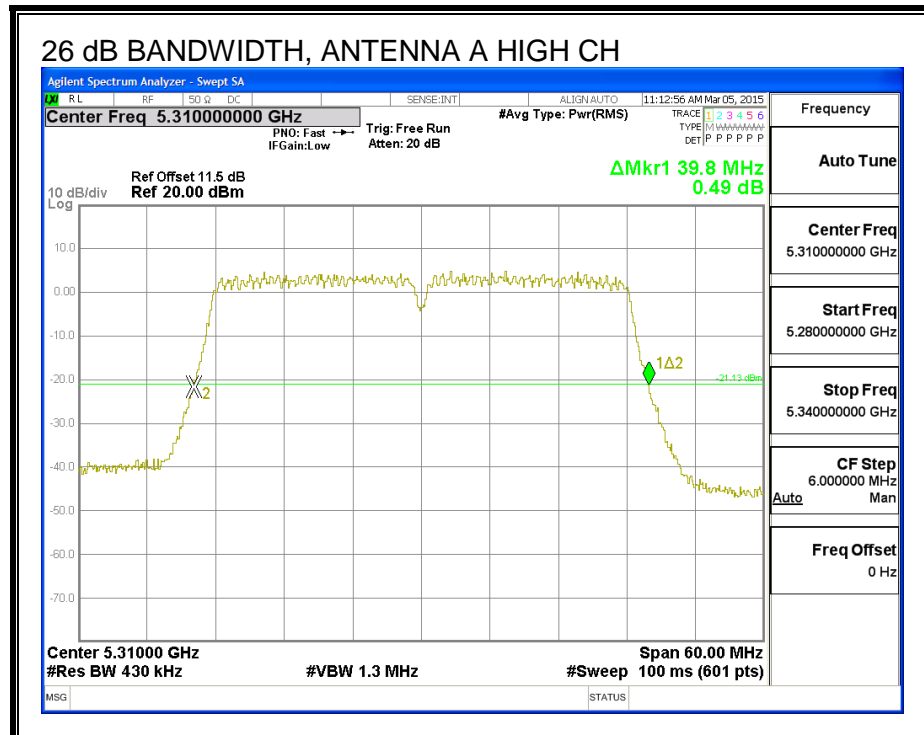
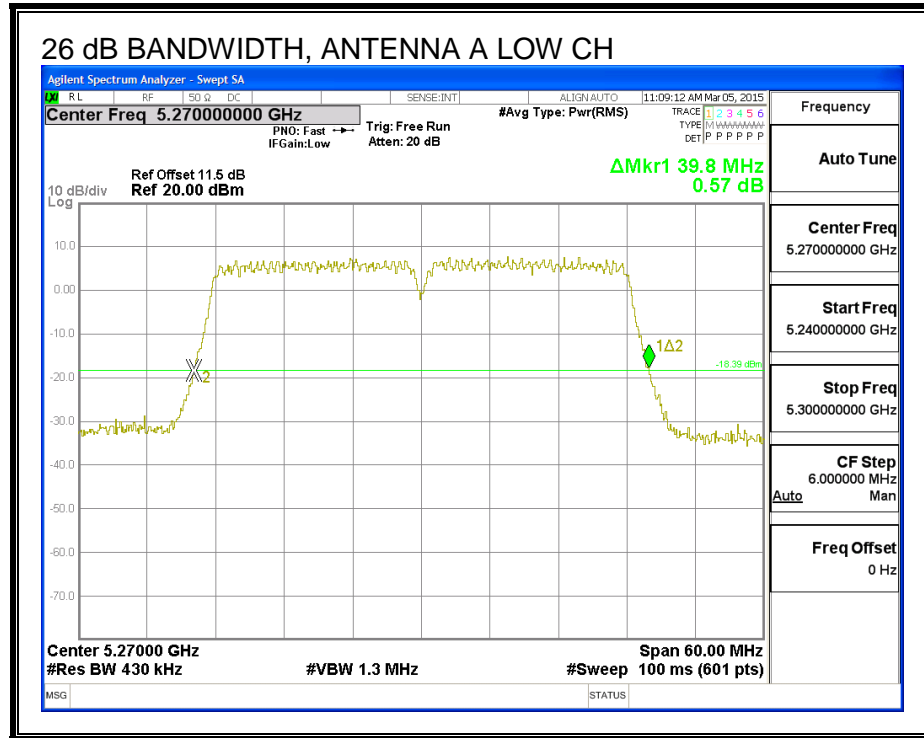
RESULTS

| Channel | Frequency (MHz) | 26 dB BW Antenna B (MHz) | 26 dB BW Antenna A (MHz) |
|---------|--------------------|--------------------------------|--------------------------------|
| Low | 5270 | 40.20 | 39.80 |
| High | 5310 | 40.10 | 39.80 |

26 dB BANDWIDTH, ANTENNA B



26 dB BANDWIDTH, ANTENNA A



8.13.2. 99% BANDWIDTH

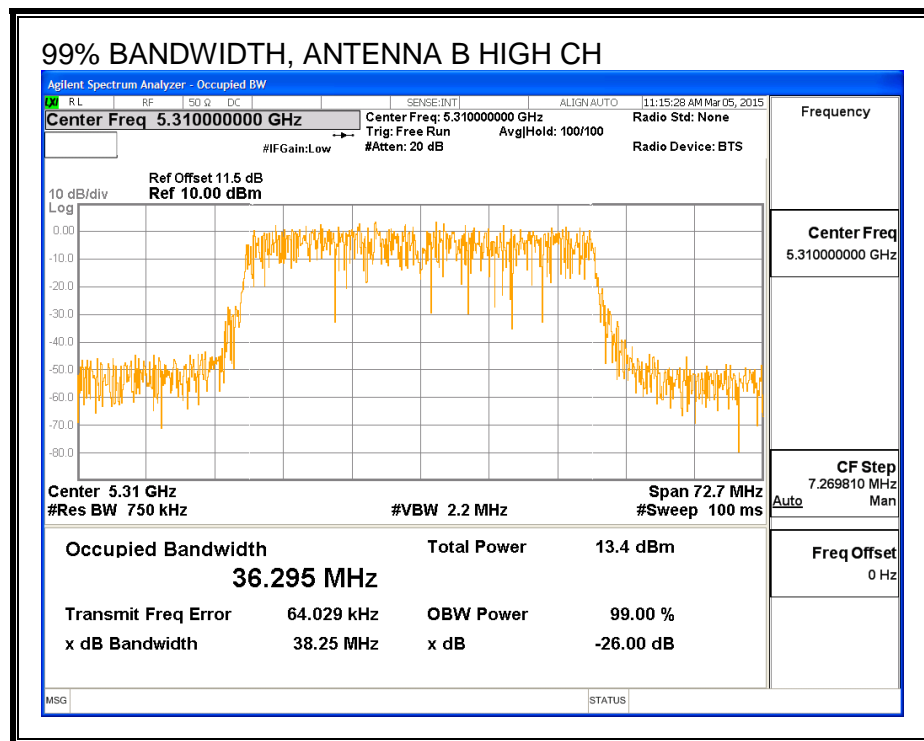
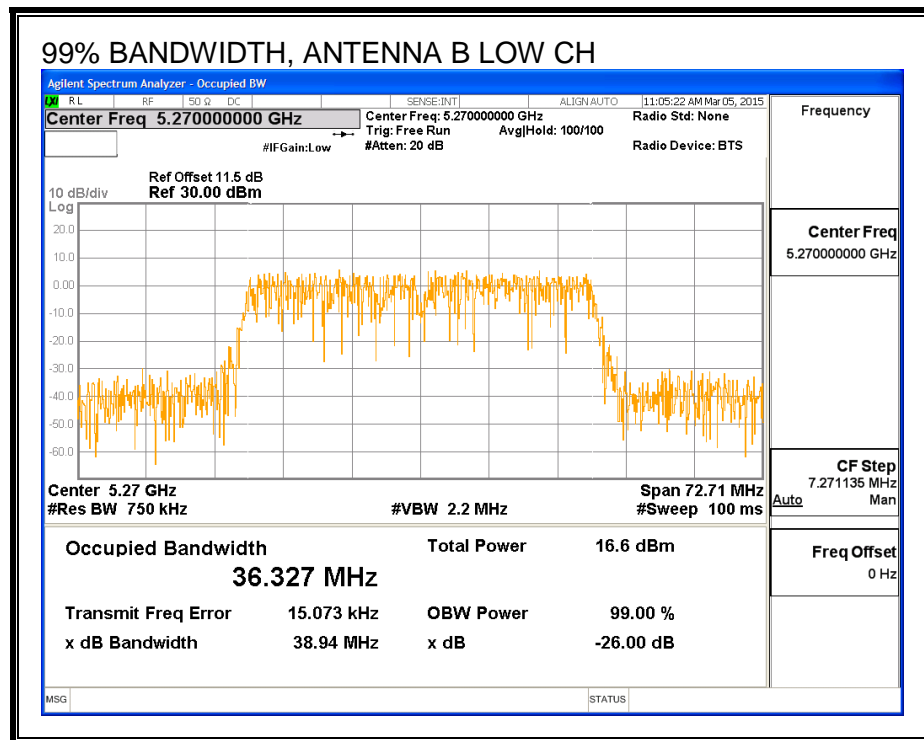
LIMITS

None; for reporting purposes only.

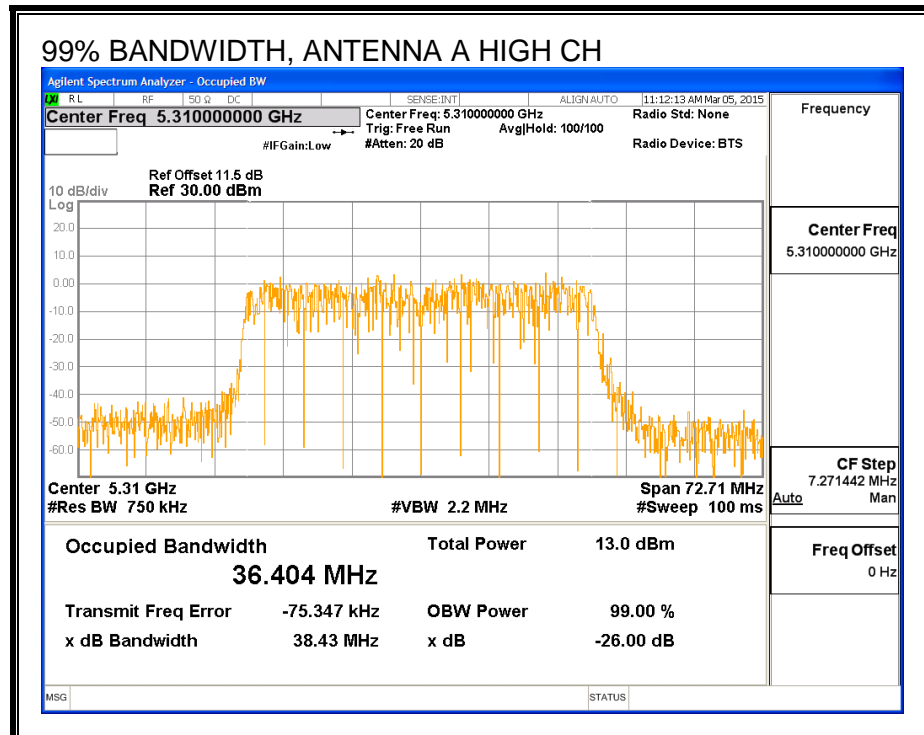
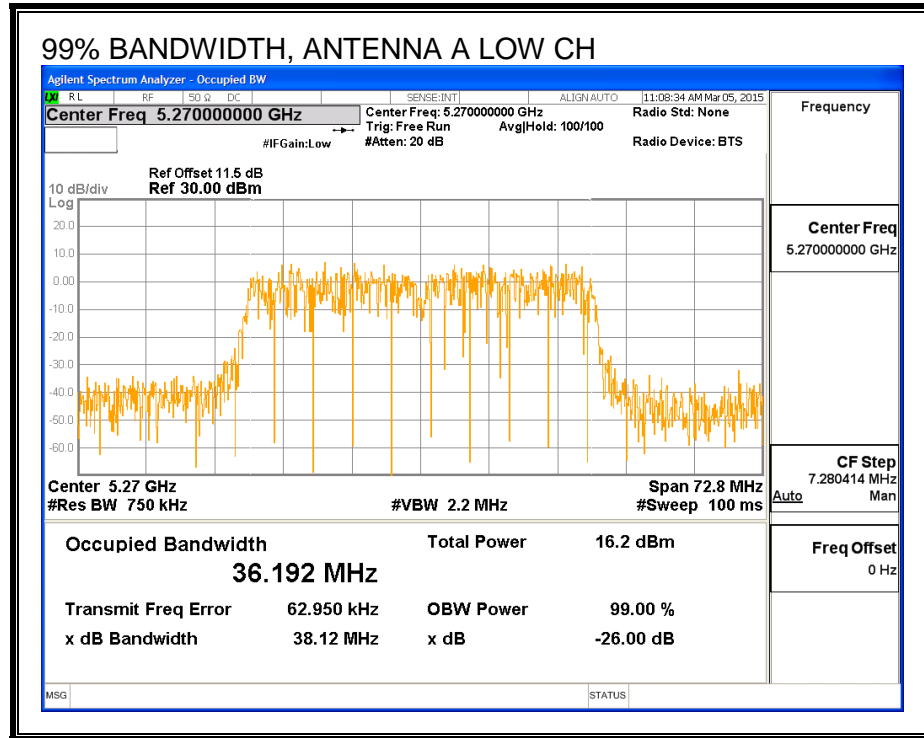
RESULTS

| Channel | Frequency (MHz) | 99% BW Antenna B (MHz) | 99% BW Antenna A (MHz) |
|---------|--------------------|------------------------------|------------------------------|
| Low | 5270 | 36.3300 | 36.1900 |
| High | 5310 | 36.3000 | 36.4000 |

99% BANDWIDTH, ANTENNA B



99% BANDWIDTH, ANTENNA A



8.13.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

Average Power Results

| Channel | Frequency (MHz) | Antenna B Power (dBm) | Antenna A Power (dBm) | Total Power (dBm) |
|---------|--------------------|-----------------------------|-----------------------------|-------------------------|
| Low | 5270 | 15.48 | 15.49 | 18.50 |
| High | 5310 | 12.88 | 12.95 | 15.92 |

8.13.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.25–5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

| Antenna B Antenna Gain (dBi) | Antenna A Antenna Gain (dBi) | Uncorrelated Chains Directional Gain (dBi) |
|---------------------------------------|---------------------------------------|---|
| 3.30 | 3.10 | 3.20 |

The TX chains are correlated and the antenna gain is unequal among the chains. The directional gain is:

| Antenna B Antenna Gain (dBi) | Antenna A Antenna Gain (dBi) | Correlated Chains Directional Gain (dBi) |
|---------------------------------------|---------------------------------------|---|
| 3.30 | 3.10 | 6.21 |

RESULTS

Bandwidth, Antenna Gain and Limits

| Channel | Frequency (MHz) | Min 26 dB BW (MHz) | Directional Gain for Power (dBi) | Directional Gain for PSD (dBi) | Power Limit (dBm) | PSD Limit (dBm) |
|---------|--------------------|-----------------------------|---|---|-------------------------|-----------------------|
| Low | 5270 | 39.80 | 3.20 | 6.21 | 24.00 | 10.79 |
| High | 5310 | 39.80 | 3.20 | 6.21 | 24.00 | 10.79 |

| | | |
|---------------------------|------|---|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd Power & PSD |
|---------------------------|------|---|

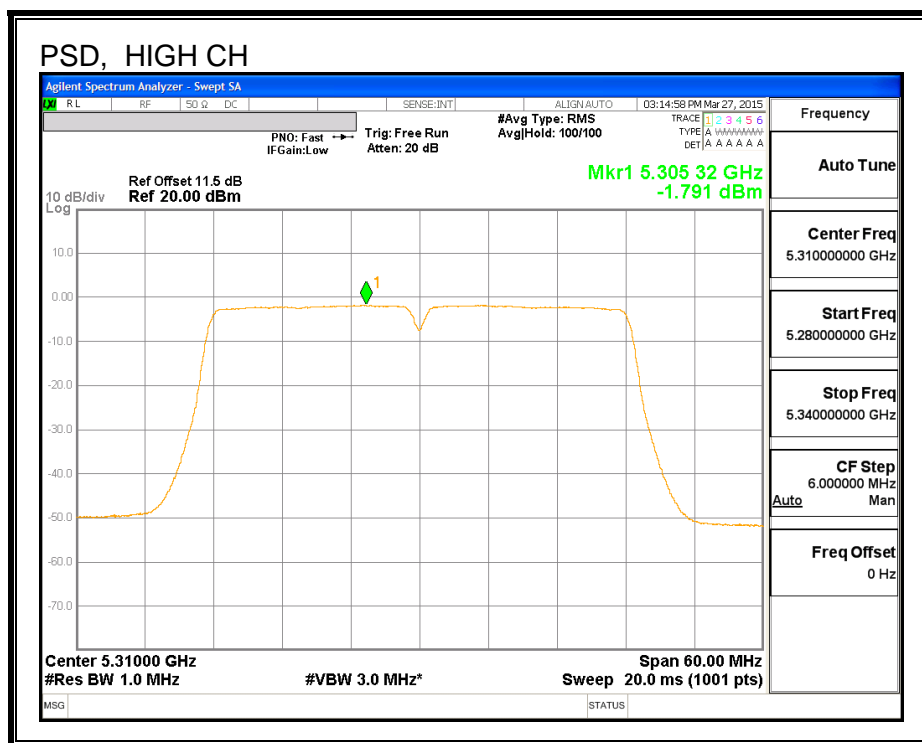
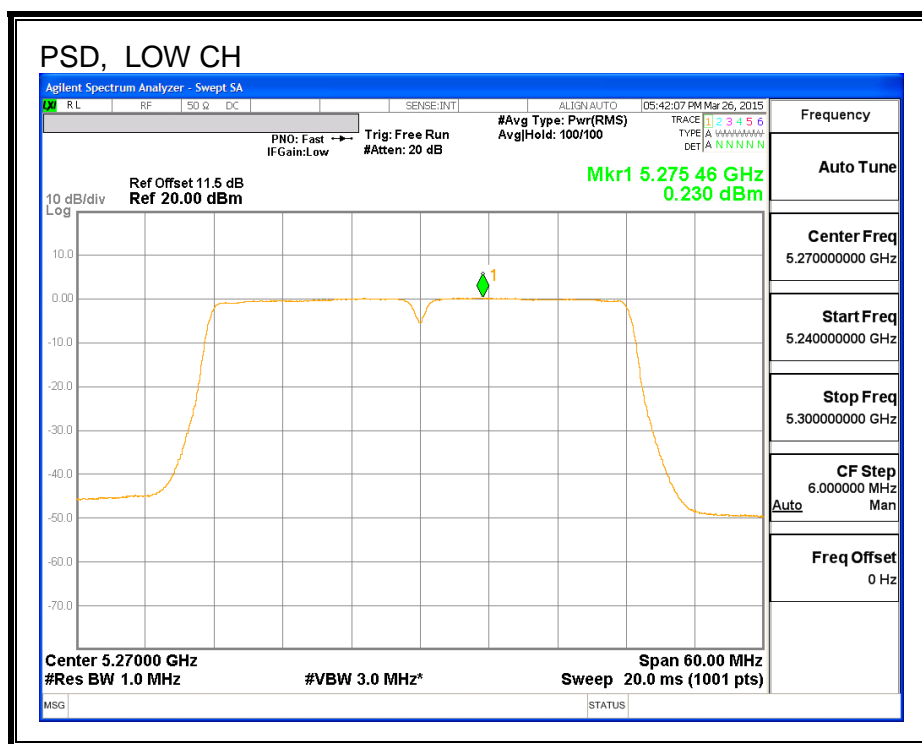
Output Power Results

| Channel | Frequency (MHz) | Antenna B Meas Power (dBm) | Antenna A Meas Power (dBm) | Total Corr'd Power (dBm) | Power Limit (dBm) | Power Margin (dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low | 5270 | 15.48 | 15.49 | 18.50 | 24.00 | -5.50 |
| High | 5310 | 12.88 | 12.95 | 15.93 | 24.00 | -8.07 |

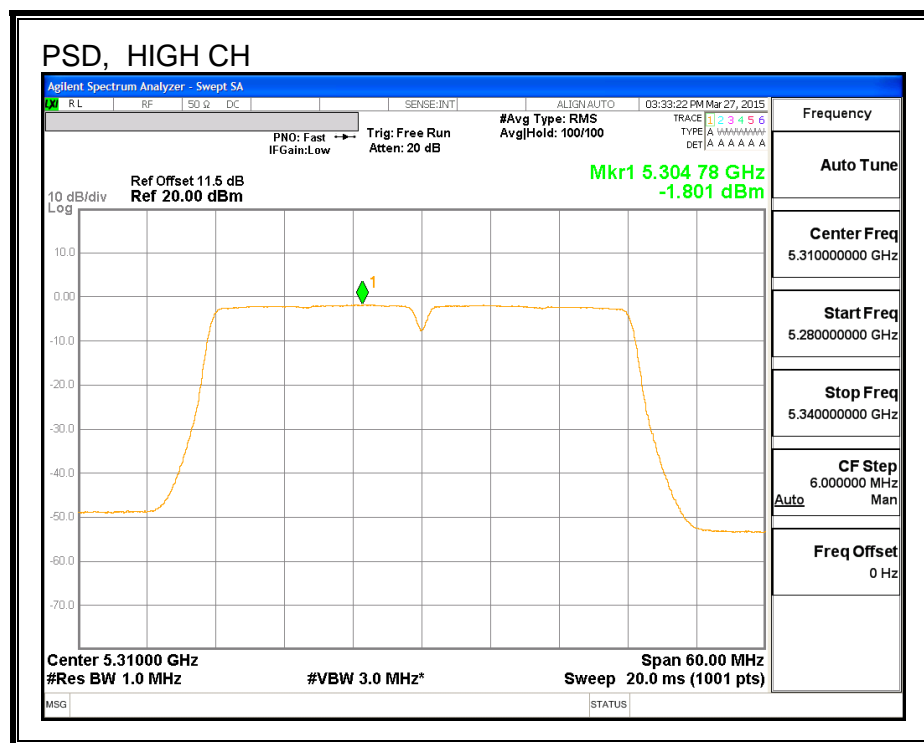
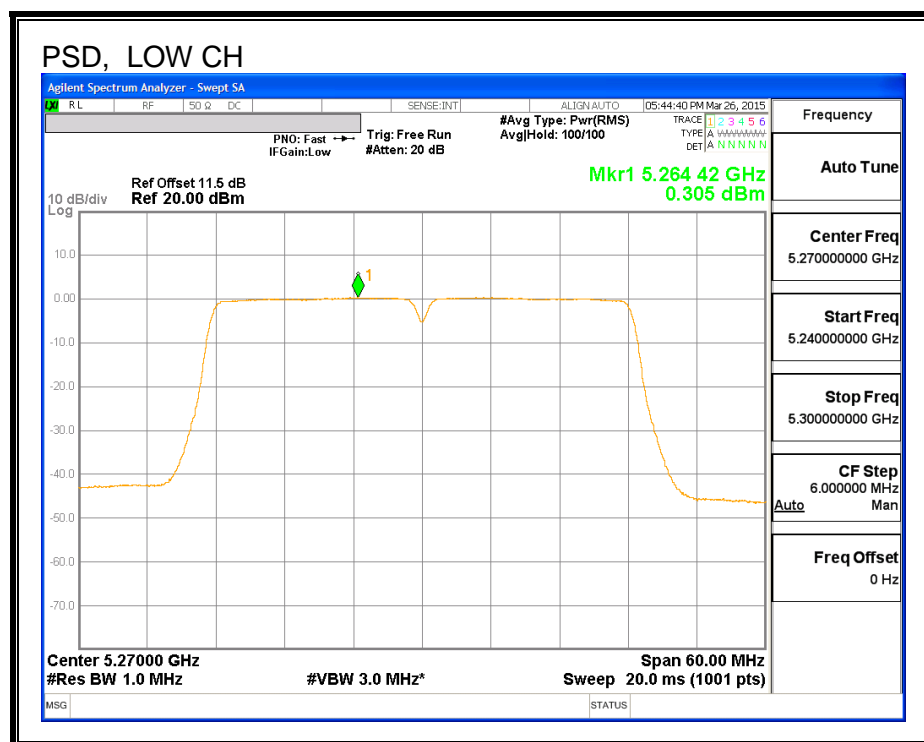
PSD Results

| Channel | Frequency (MHz) | Antenna B Meas PSD (dBm) | Antenna A Meas PSD (dBm) | Total Corr'd PSD (dBm) | PSD Limit (dBm) | PSD Margin (dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|---------------------------------|-----------------------|-----------------------|
| Low | 5270 | 0.23 | 0.31 | 3.28 | 10.79 | -7.51 |
| High | 5310 | -1.79 | -1.80 | 1.21 | 10.79 | -9.58 |

PSD, ANTENNA B



PSD, ANTENNA A



8.14. 802.11n HT40 2Tx STBC MODE IN THE 5.3 GHz BAND

8.14.1. 26 dB BANDWIDTH

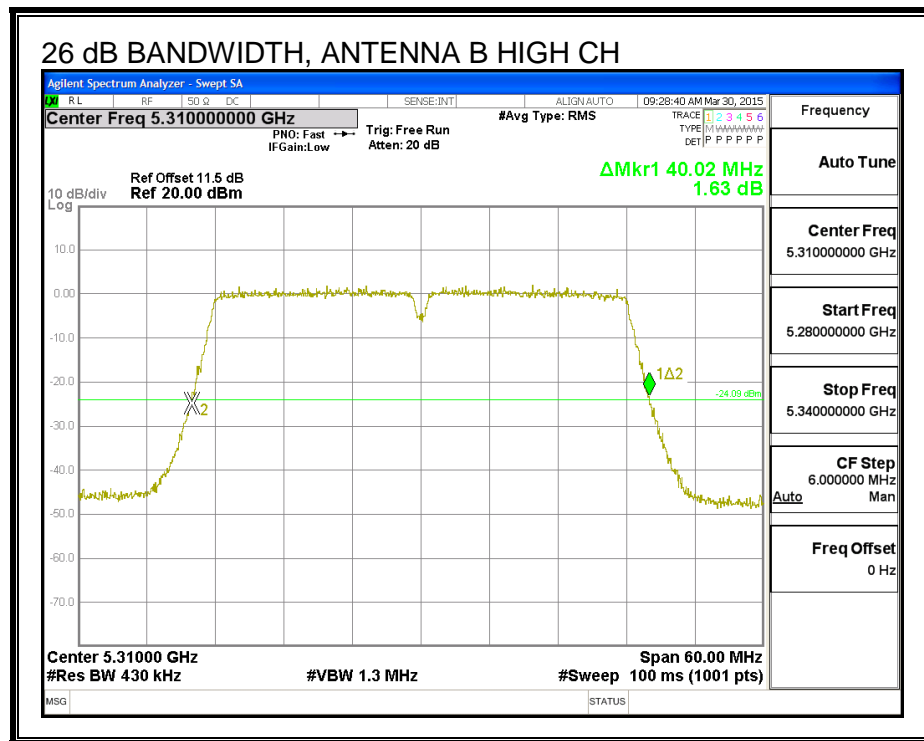
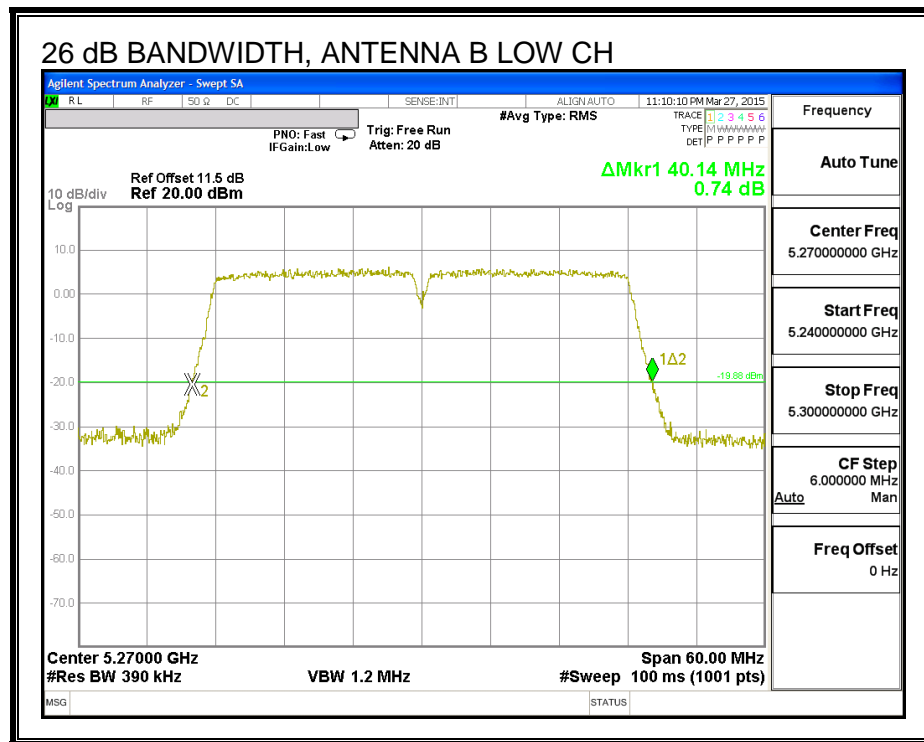
LIMITS

None; for reporting purposes only.

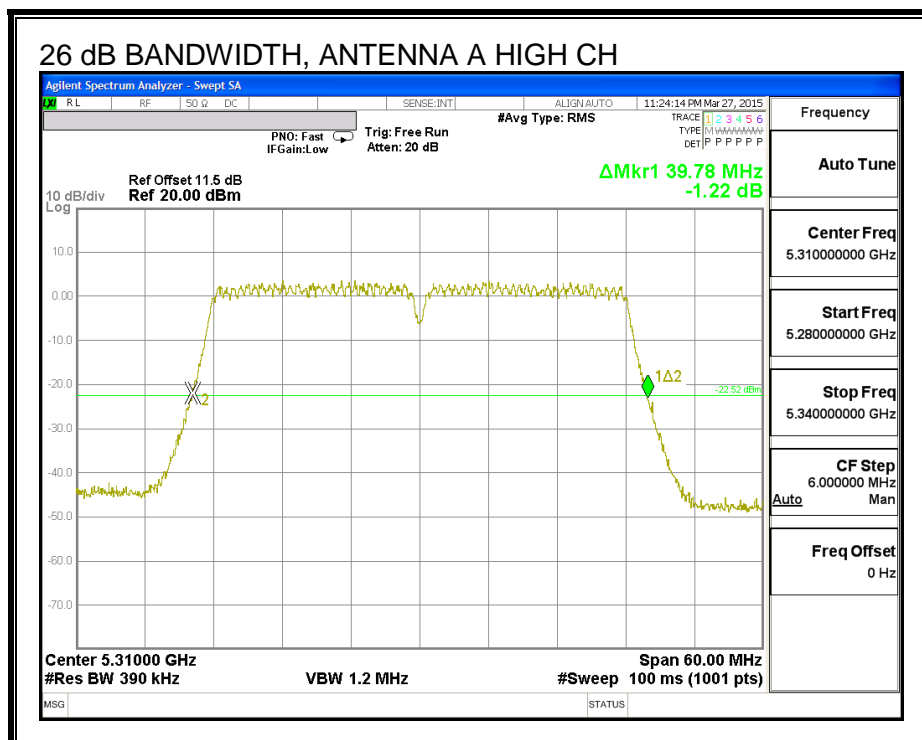
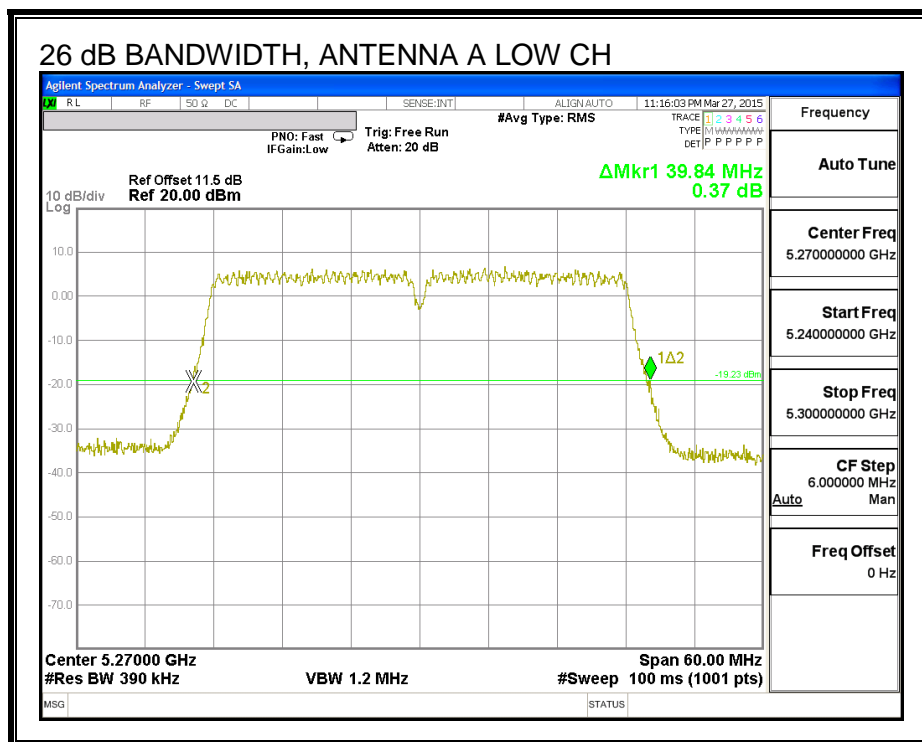
RESULTS

| Channel | Frequency (MHz) | 26 dB BW Antenna B (MHz) | 26 dB BW Antenna A (MHz) |
|---------|--------------------|--------------------------------|--------------------------------|
| Low | 5270 | 40.14 | 39.84 |
| High | 5310 | 40.02 | 39.78 |

26 dB BANDWIDTH, ANTENNA B



26 dB BANDWIDTH, ANTENNA A



8.14.2. 99% BANDWIDTH

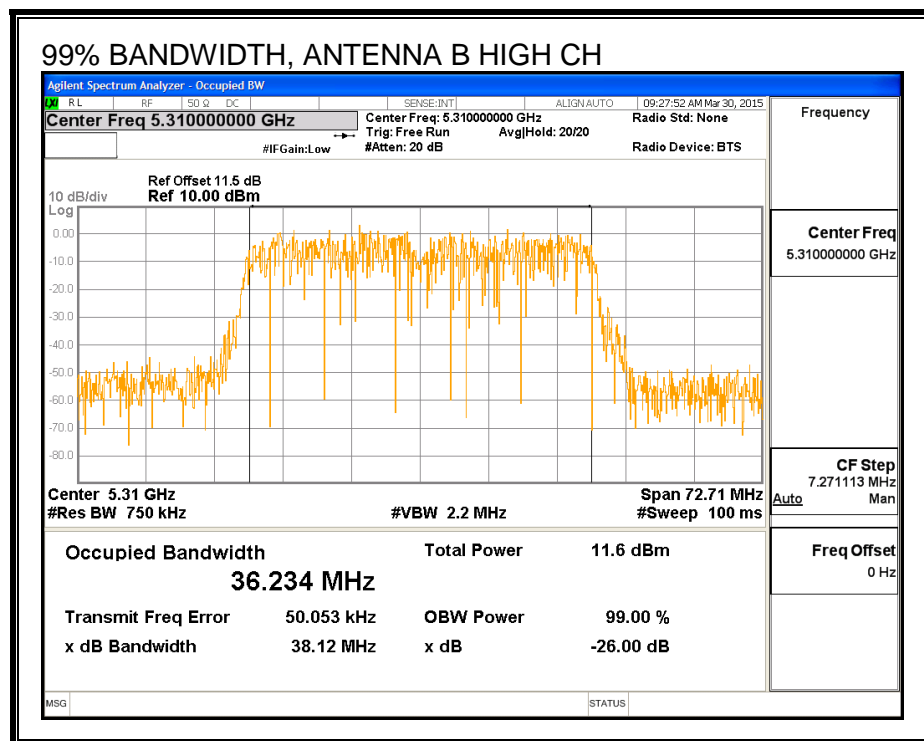
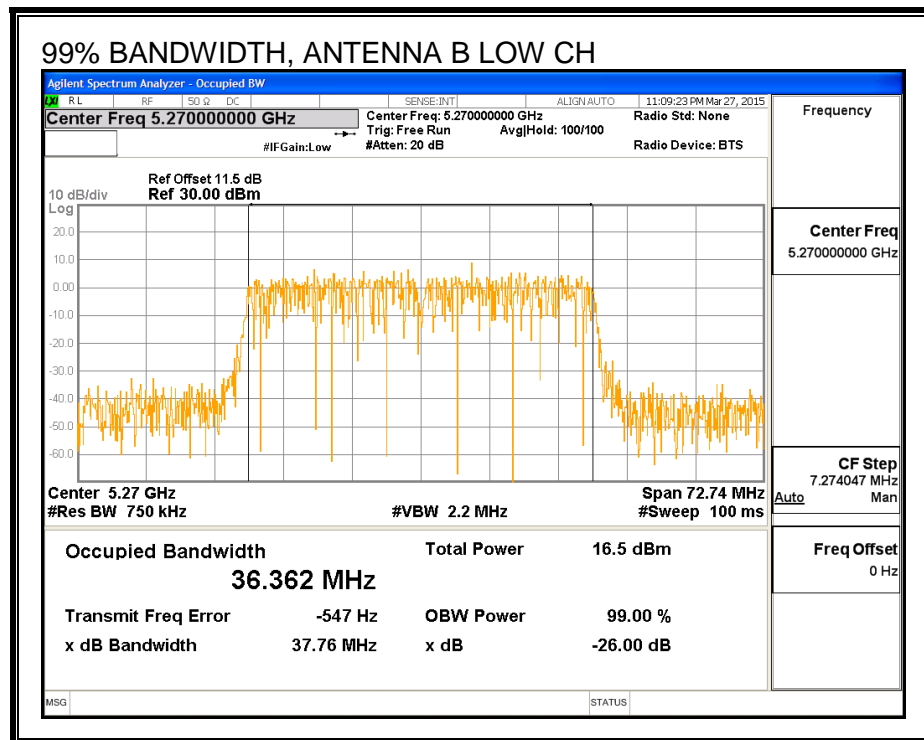
LIMITS

None; for reporting purposes only.

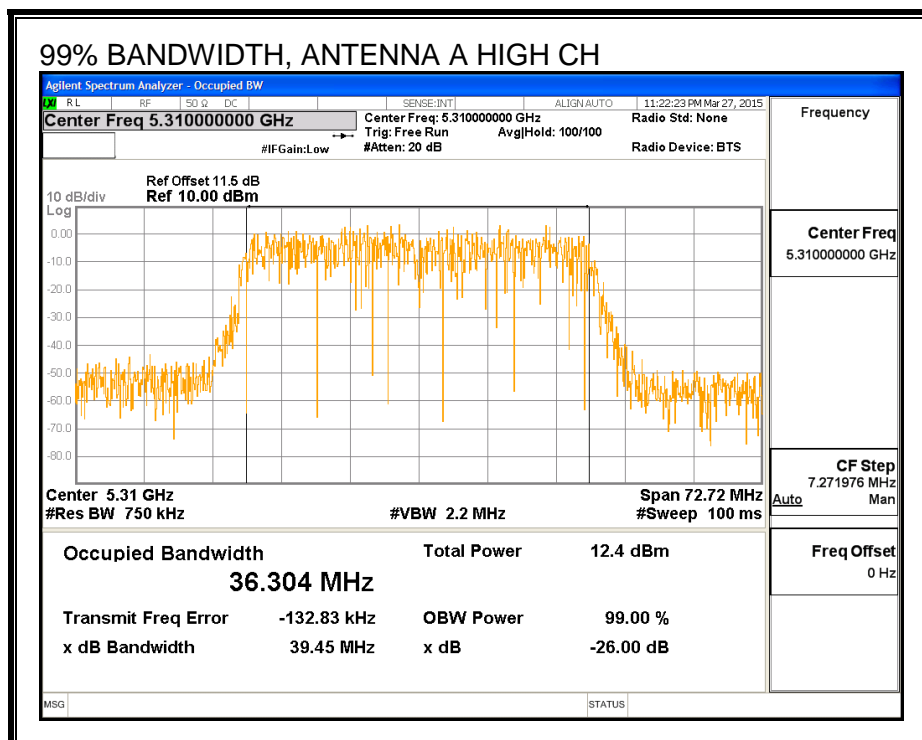
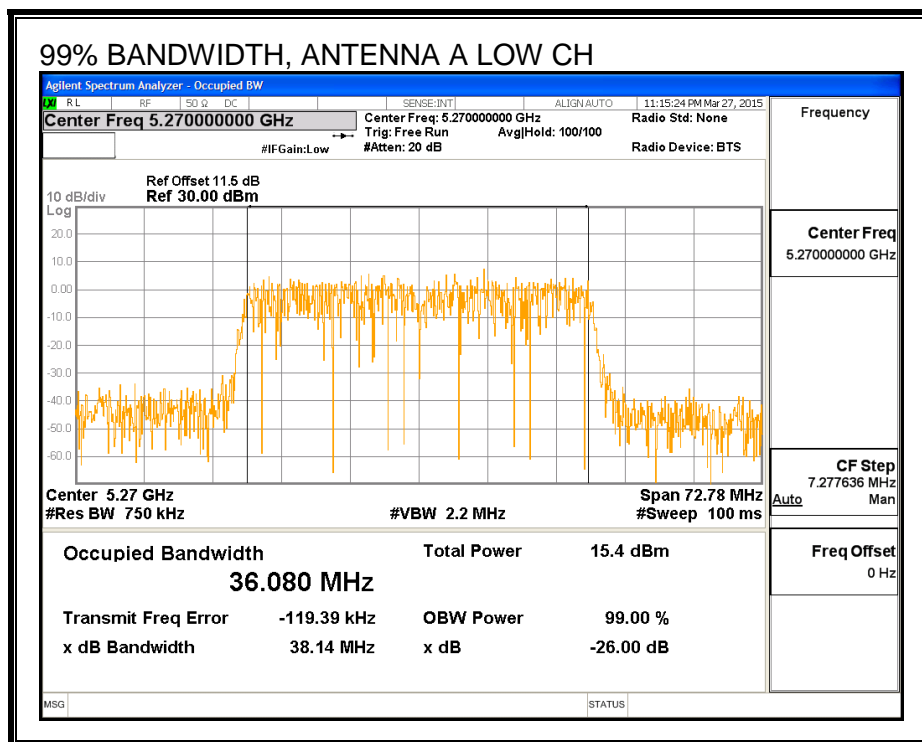
RESULTS

| Channel | Frequency (MHz) | 99% BW Antenna B (MHz) | 99% BW Antenna A (MHz) |
|---------|--------------------|------------------------------|------------------------------|
| Low | 5270 | 36.362 | 36.080 |
| High | 5310 | 36.234 | 36.304 |

99% BANDWIDTH, ANTENNA B



99% BANDWIDTH, ANTENNA A



8.14.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

Average Power Results

| Channel | Frequency (MHz) | Antenna B Power (dBm) | Antenna A Power (dBm) | Total Power (dBm) |
|---------|--------------------|-----------------------------|-----------------------------|-------------------------|
| Low | 5270 | 16.99 | 15.99 | 19.53 |
| High | 5310 | 12.93 | 12.95 | 15.95 |

8.14.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.25–5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

| Antenna B Antenna Gain (dBi) | Antenna A Antenna Gain (dBi) | Uncorrelated Chains Directional Gain (dBi) |
|---------------------------------------|---------------------------------------|---|
| 3.30 | 3.10 | 3.20 |

The TX chains are correlated and the antenna gain is unequal among the chains. The directional gain is:

| Antenna B Antenna Gain (dBi) | Antenna A Antenna Gain (dBi) | Correlated Chains Directional Gain (dBi) |
|---------------------------------------|---------------------------------------|---|
| 3.30 | 3.10 | 6.21 |

RESULTS

Bandwidth, Antenna Gain and Limits

| Channel | Frequency (MHz) | Min 26 dB BW (MHz) | Directional Gain for Power (dBi) | Directional Gain for PSD (dBi) | Power Limit (dBm) | PSD Limit (dBm) |
|---------|--------------------|-----------------------------|---|---|-------------------------|-----------------------|
| Low | 5270 | 39.84 | 3.20 | 3.20 | 24.00 | 11.00 |
| High | 5310 | 39.78 | 3.20 | 3.20 | 24.00 | 11.00 |

| | | |
|---------------------------|------|---|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd Power & PSD |
|---------------------------|------|---|

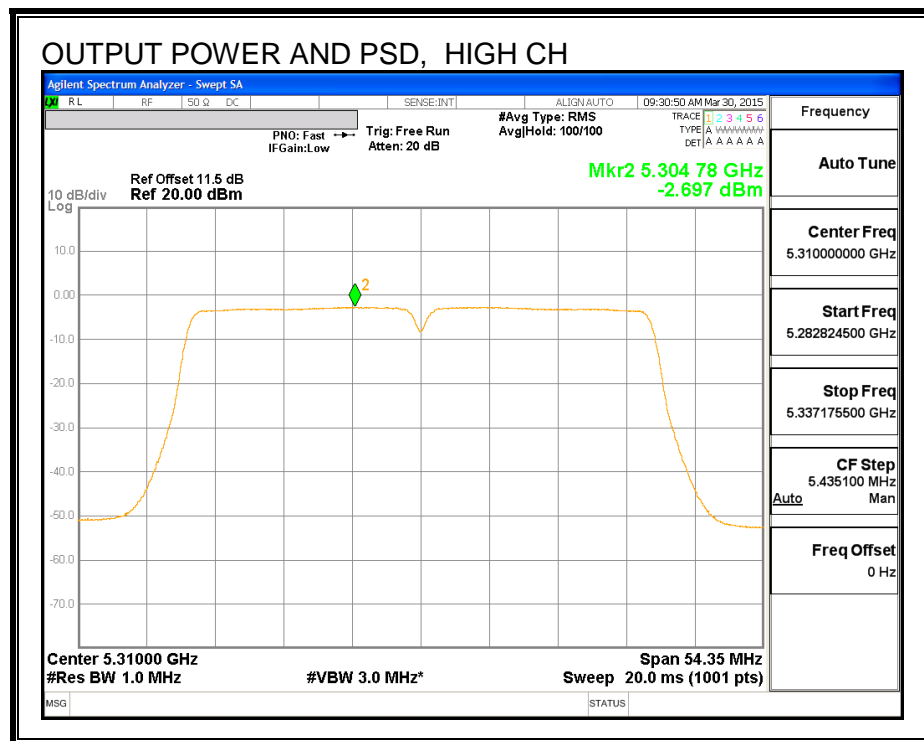
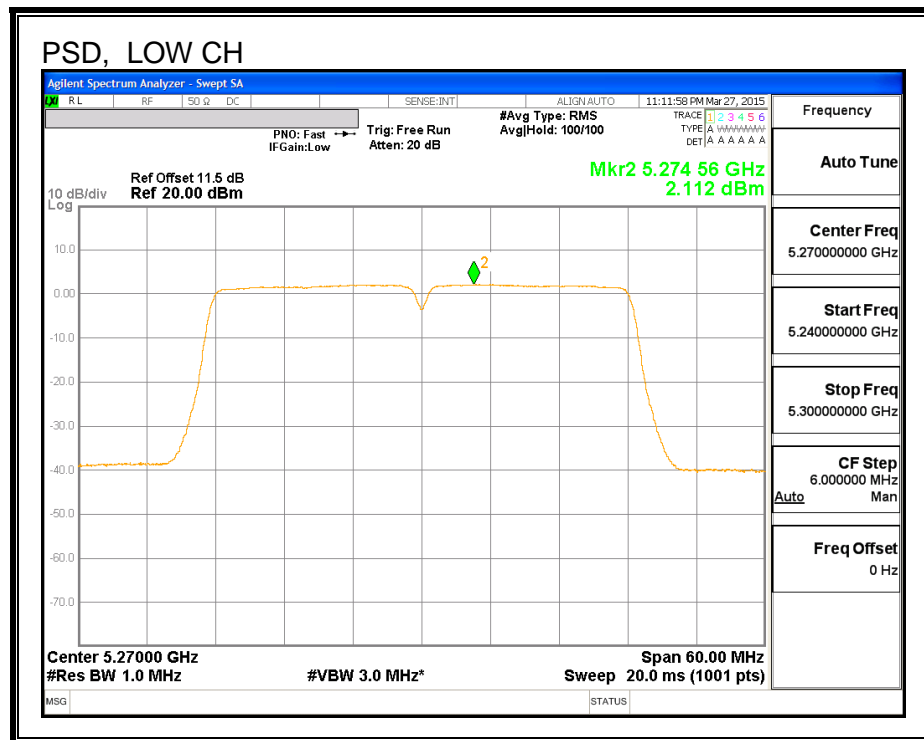
Output Power Results

| Channel | Frequency (MHz) | Antenna B Meas Power (dBm) | Antenna A Meas Power (dBm) | Total Corr'd Power (dBm) | Power Limit (dBm) | Power Margin (dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low | 5270 | 16.99 | 15.99 | 19.53 | 24.00 | -4.47 |
| High | 5310 | 12.93 | 12.95 | 15.95 | 24.00 | -8.05 |

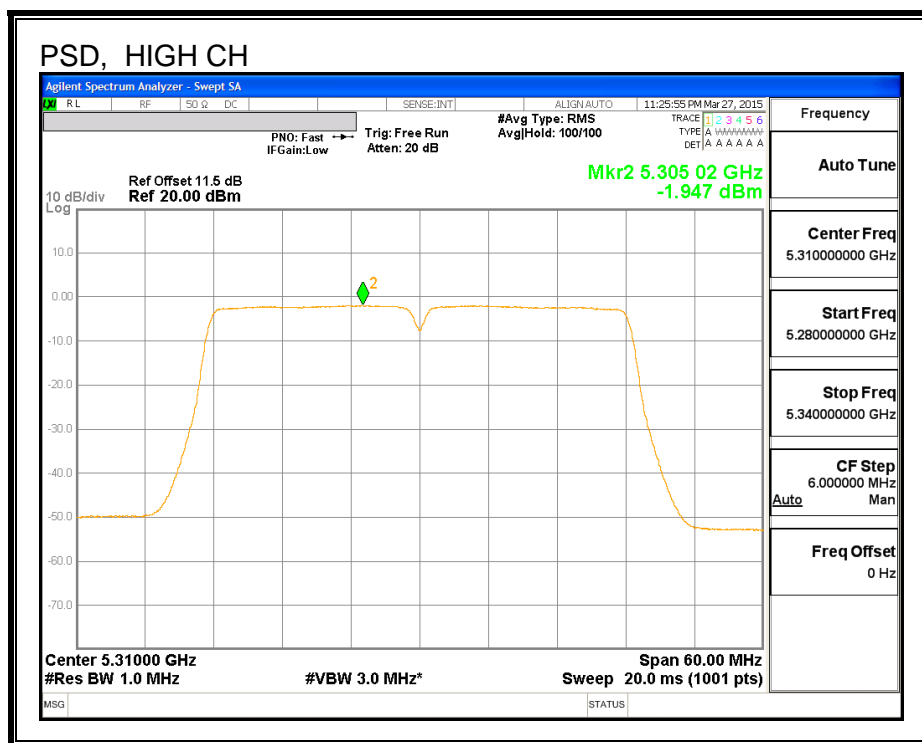
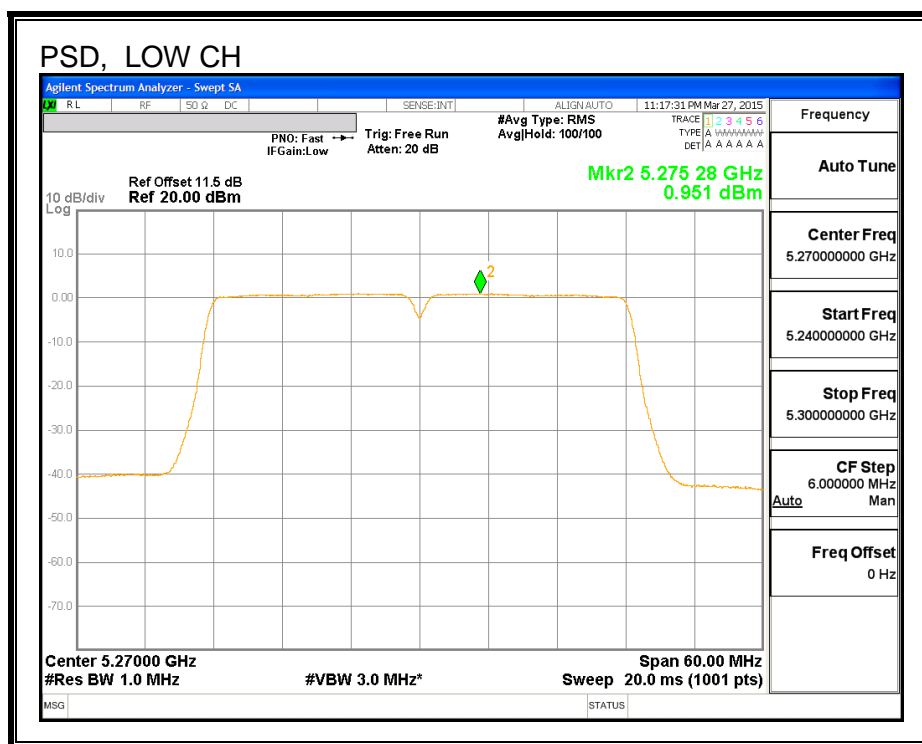
PSD Results

| Channel | Frequency (MHz) | Antenna B Meas PSD (dBm) | Antenna A Meas PSD (dBm) | Total Corr'd PSD (dBm) | PSD Limit (dBm) | PSD Margin (dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|---------------------------------|-----------------------|-----------------------|
| Low | 5270 | 2.11 | 1.00 | 4.60 | 11.00 | -6.40 |
| High | 5310 | -2.70 | -1.95 | 0.70 | 11.00 | -10.30 |

PSD, ANTENNA B



PSD, ANTENNA A



8.15. 802.11ac VHT80 SISO MODE IN THE 5.3 GHz BAND

8.15.1. 26 dB BANDWIDTH

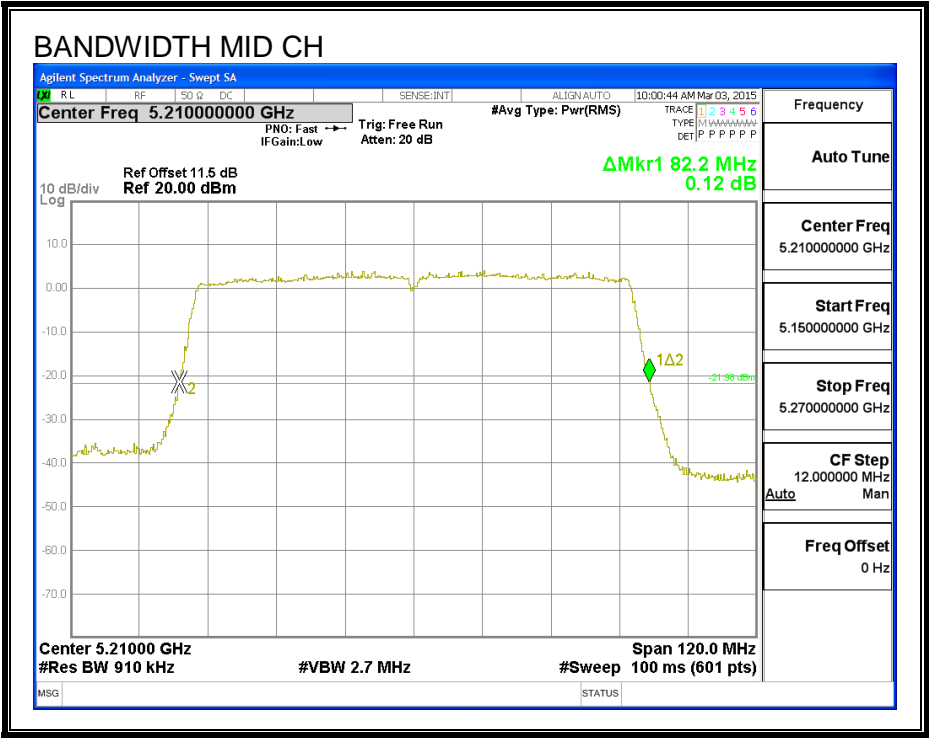
LIMITS

None; for reporting purposes only.

RESULTS

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) |
|---------|--------------------|--------------------------|
| Mid | 5290 | 82.20 |

26 dB BANDWIDTH



8.15.2. 99% BANDWIDTH

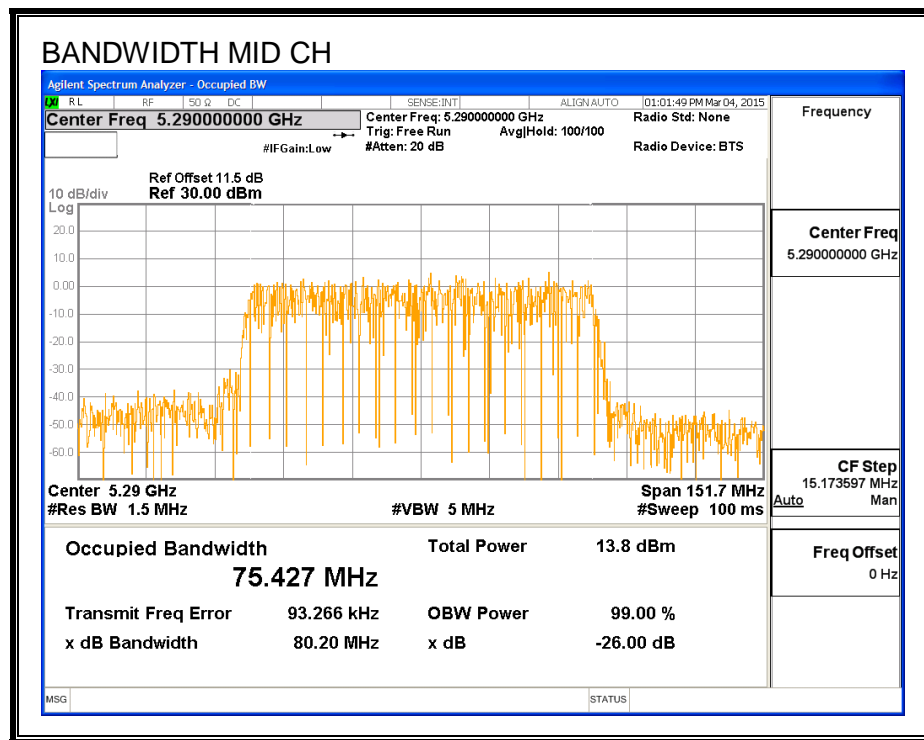
LIMITS

None; for reporting purposes only.

RESULTS

| Channel | Frequency (MHz) | 99% Bandwidth (MHz) |
|---------|--------------------|------------------------|
| Mid | 5290 | 75.427 |

99% BANDWIDTH



8.15.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

| Channel | Frequency (MHz) | Power (dBm) |
|---------|--------------------|----------------|
| Mid | 5290 | 14.80 |

8.15.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.25–5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS

Bandwidth, Antenna Gain, and Limits

| Channel | Frequency (MHz) | Min 26 dB BW (MHz) | Directional Gain (dBi) | Power Limit (dBm) | PSD Limit (dBm) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|-----------------------|
| Mid | 5290 | 82.20 | 3.30 | 24.00 | 11.00 |

| | | |
|---------------------------|------|---|
| Duty Cycle CF (dB) | 0.21 | Included in Calculations of Corr'd Power & PSD |
|---------------------------|------|---|

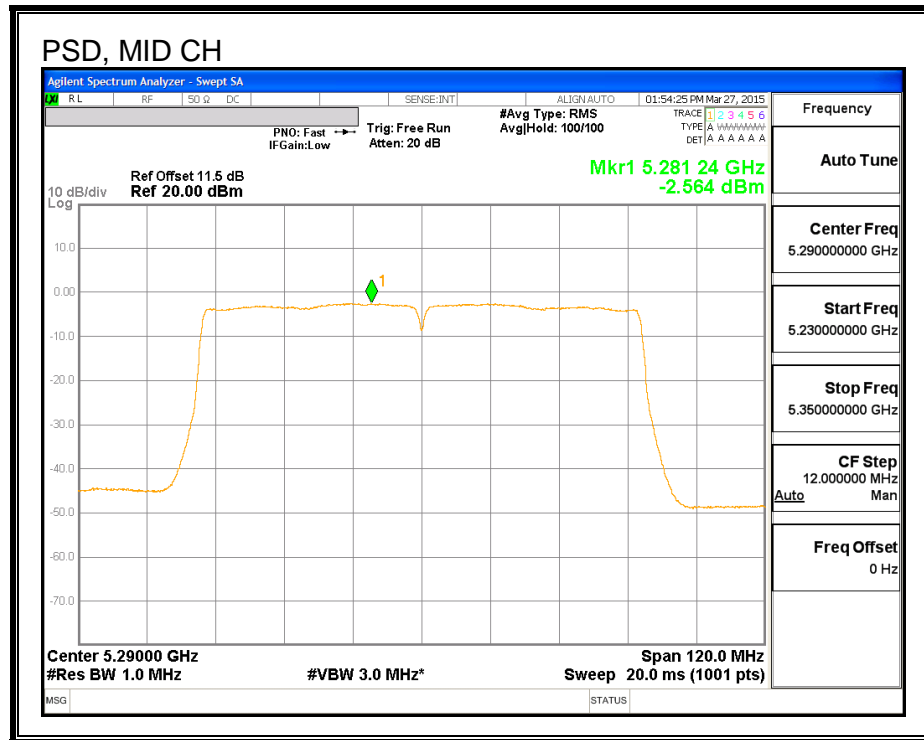
Output Power Results

| Channel | Frequency (MHz) | Antenna B Meas Power (dBm) | Total Corr'd Power (dBm) | Power Limit (dBm) | Power Margin (dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid | 5290 | 14.80 | 15.01 | 24.00 | -9.00 |

PPSD Results

| Channel | Frequency (MHz) | Antenna B Meas PSD (dBm) | Total Corr'd PSD (dBm) | PSD Limit (dBm) | PSD Margin (dB) |
|---------|--------------------|-----------------------------------|---------------------------------|-----------------------|-----------------------|
| Mid | 5290 | -2.56 | -2.35 | 11.00 | -13.35 |

PSD, MID CH



8.16. 802.11ac VHT80 2Tx CDD MODE IN THE 5.3 GHz BAND

8.16.1. 26 dB BANDWIDTH

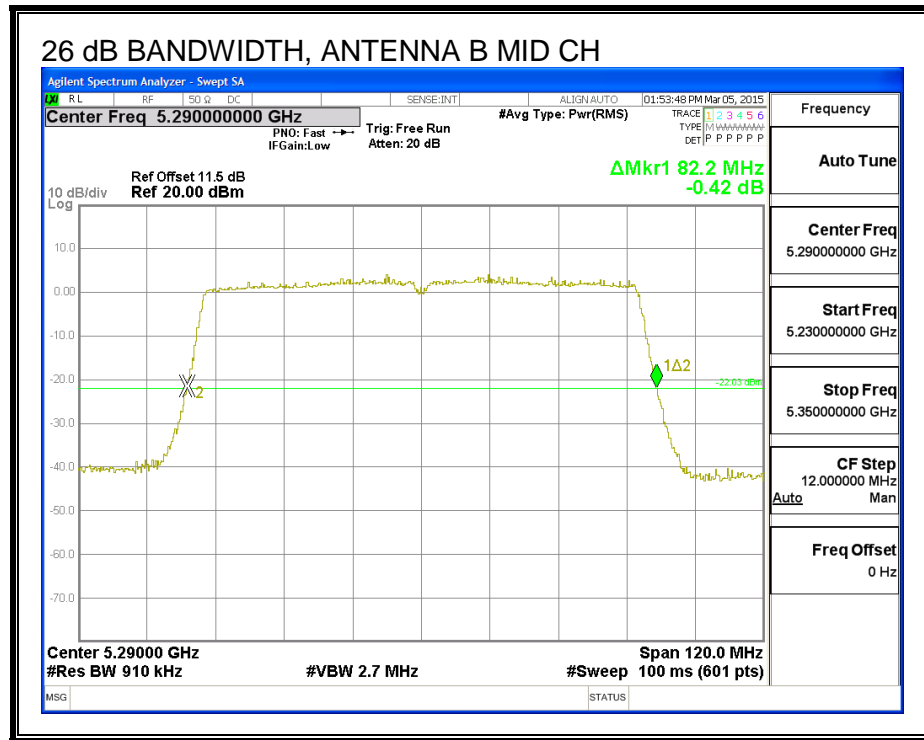
LIMITS

None; for reporting purposes only.

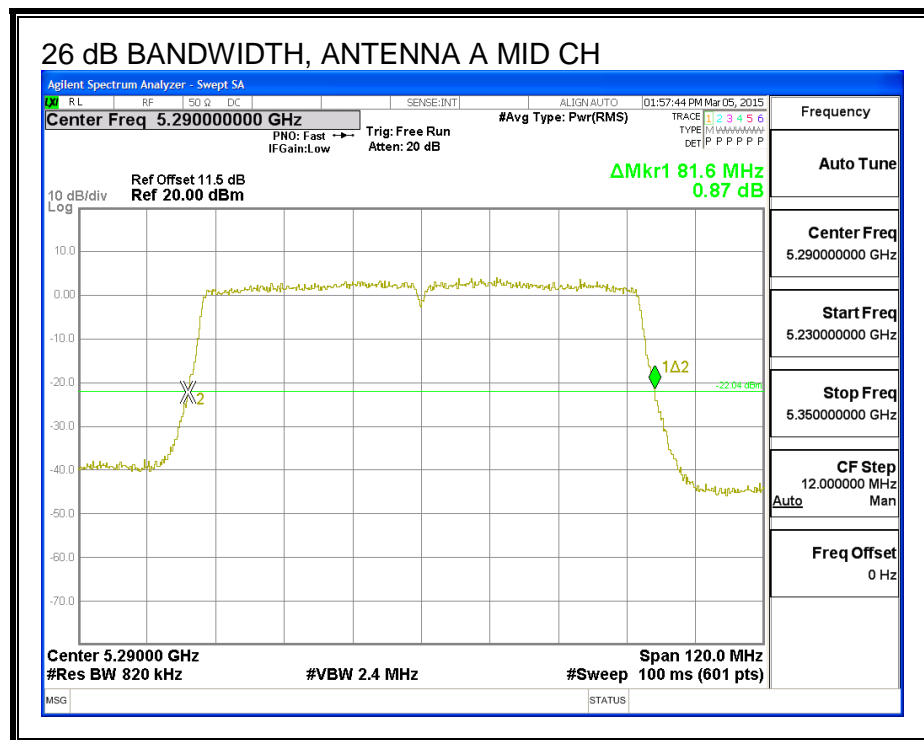
RESULTS

| Channel | Frequency (MHz) | 26 dB BW Antenna B (MHz) | 26 dB BW Antenna A (MHz) |
|---------|--------------------|--------------------------------|--------------------------------|
| Mid | 5290 | 82.20 | 81.60 |

26 dB BANDWIDTH, ANTENNA B



26 dB BANDWIDTH, ANTENNA A



8.16.2. 99% BANDWIDTH

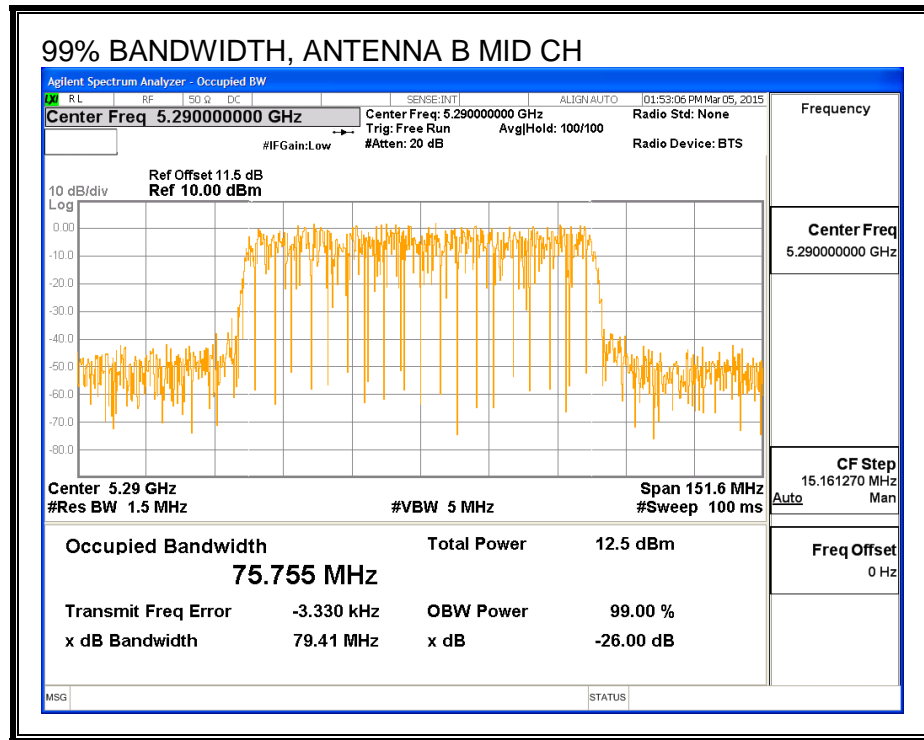
LIMITS

None; for reporting purposes only.

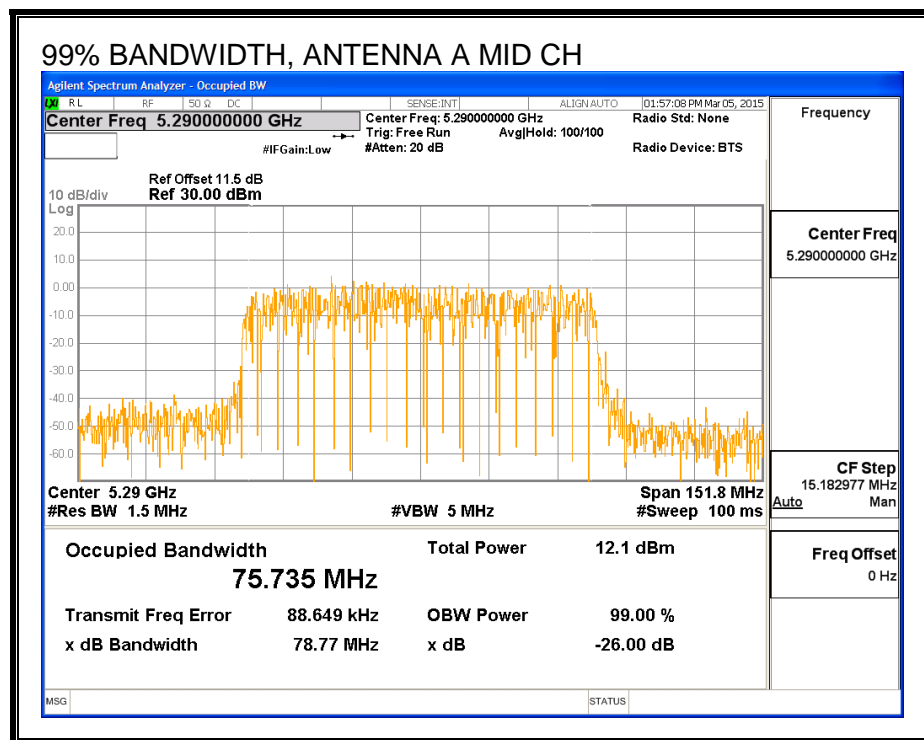
RESULTS

| Channel | Frequency (MHz) | 99% BW Antenna B (MHz) | 99% BW Antenna A (MHz) |
|---------|--------------------|------------------------------|------------------------------|
| Mid | 5290 | 75.755 | 75.735 |

99% BANDWIDTH, ANTENNA B



99% BANDWIDTH, ANTENNA A



8.16.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

Average Power Results

| Channel | Frequency (MHz) | Antenna B Power (dBm) | Antenna A Power (dBm) | Total Power (dBm) |
|---------|--------------------|-----------------------------|-----------------------------|-------------------------|
| Mid | 5290 | 12.33 | 12.47 | 15.41 |

8.16.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.25–5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

| Antenna B Antenna Gain (dBi) | Antenna A Antenna Gain (dBi) | Uncorrelated Chains Directional Gain (dBi) |
|---------------------------------------|---------------------------------------|---|
| 3.30 | 3.10 | 3.20 |

The TX chains are correlated and the antenna gain is unequal among the chains. The directional gain is:

| Antenna B Antenna Gain (dBi) | Antenna A Antenna Gain (dBi) | Correlated Chains Directional Gain (dBi) |
|---------------------------------------|---------------------------------------|---|
| 3.30 | 3.10 | 6.21 |

RESULTS

Bandwidth, Antenna Gain, and Limits

| Channel | Frequency (MHz) | Min 26 dB BW (MHz) | Directional Gain for Power (dBi) | Directional Gain for PSD (dBi) | Power Limit (dBm) | PSD Limit (dBm) |
|---------|--------------------|-----------------------------|---|---|-------------------------|-----------------------|
| Mid | 5290 | 81.60 | 3.20 | 6.21 | 24.00 | 10.79 |

| | | |
|---------------------------|------|---|
| Duty Cycle CF (dB) | 0.21 | Included in Calculations of Corr'd Power & PSD |
|---------------------------|------|---|

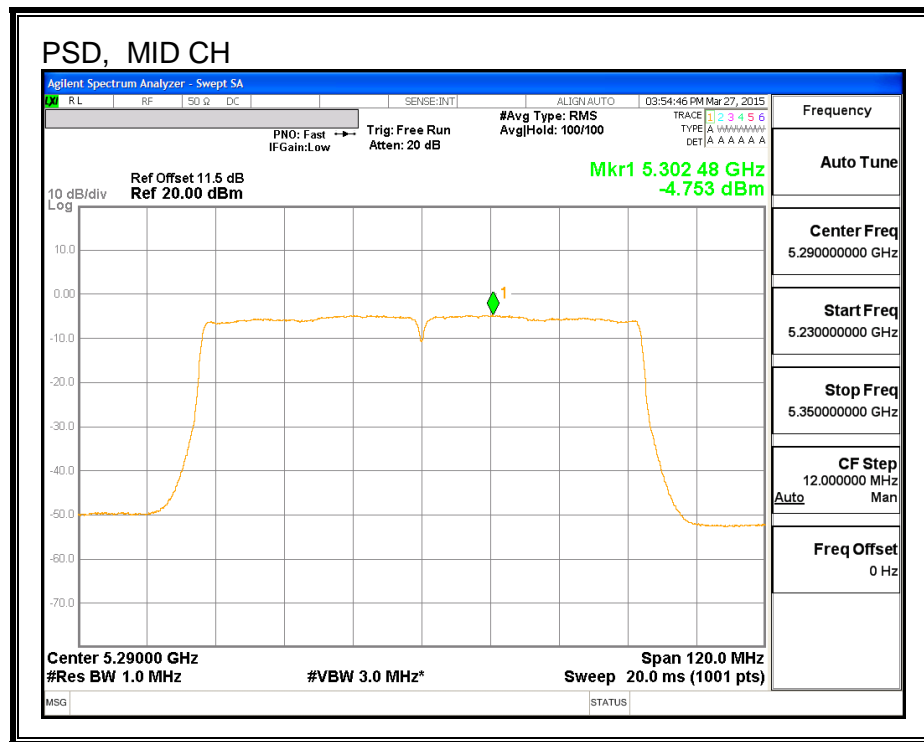
Output Power Results

| Channel | Frequency (MHz) | Antenna B Meas Power (dBm) | Antenna A Meas Power (dBm) | Total Corr'd Power (dBm) | Power Limit (dBm) | Power Margin (dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid | 5290 | 12.33 | 12.47 | 15.62 | 24.00 | -8.38 |

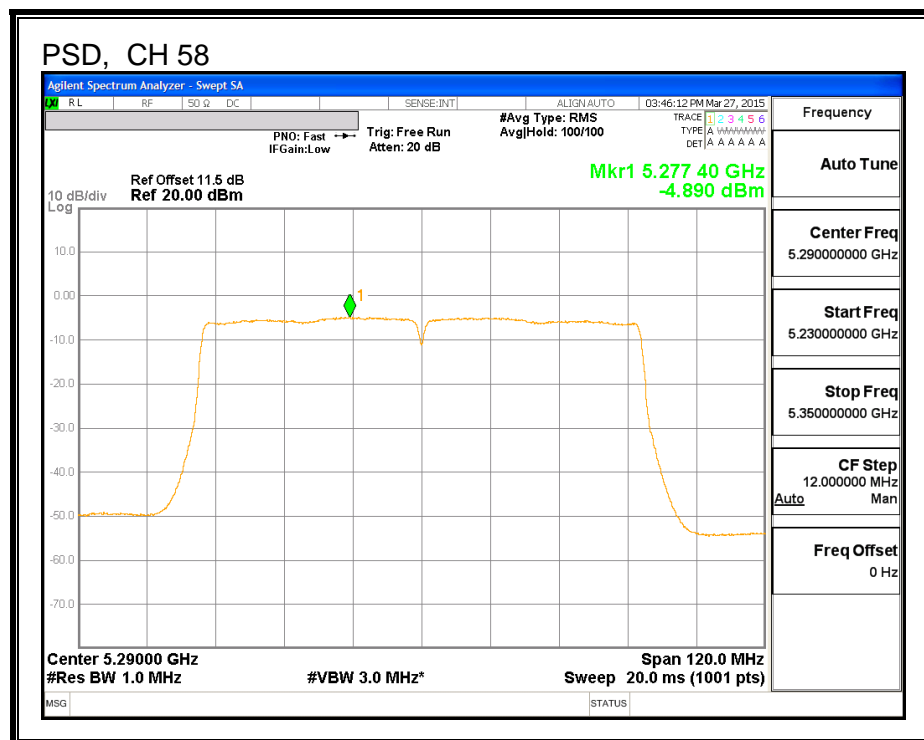
PSD Results

| Channel | Frequency (MHz) | Antenna B Meas PSD (dBm) | Antenna A Meas PSD (dBm) | Total Corr'd PSD (dBm) | PSD Limit (dBm) | PSD Margin (dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|---------------------------------|-----------------------|-----------------------|
| Mid | 5290 | -4.75 | -4.89 | -1.60 | 10.79 | -12.39 |

PSD, ANTENNA B



PSD, ANTENNA A



8.17. 802.11n HT20 SISO MODE IN THE 5.6 GHz BAND

8.17.1. 26 dB BANDWIDTH

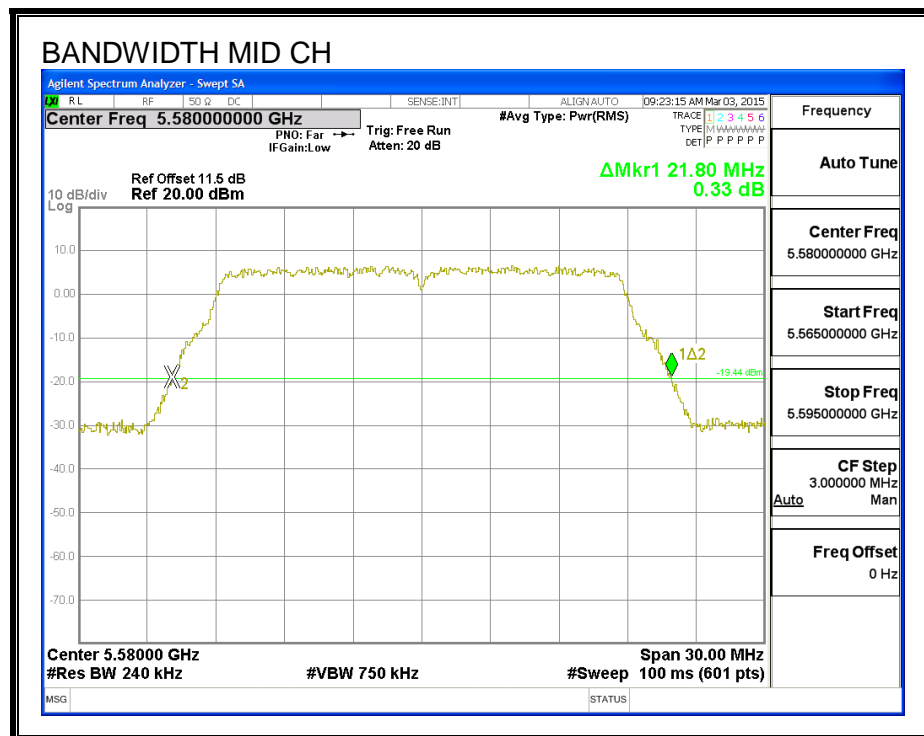
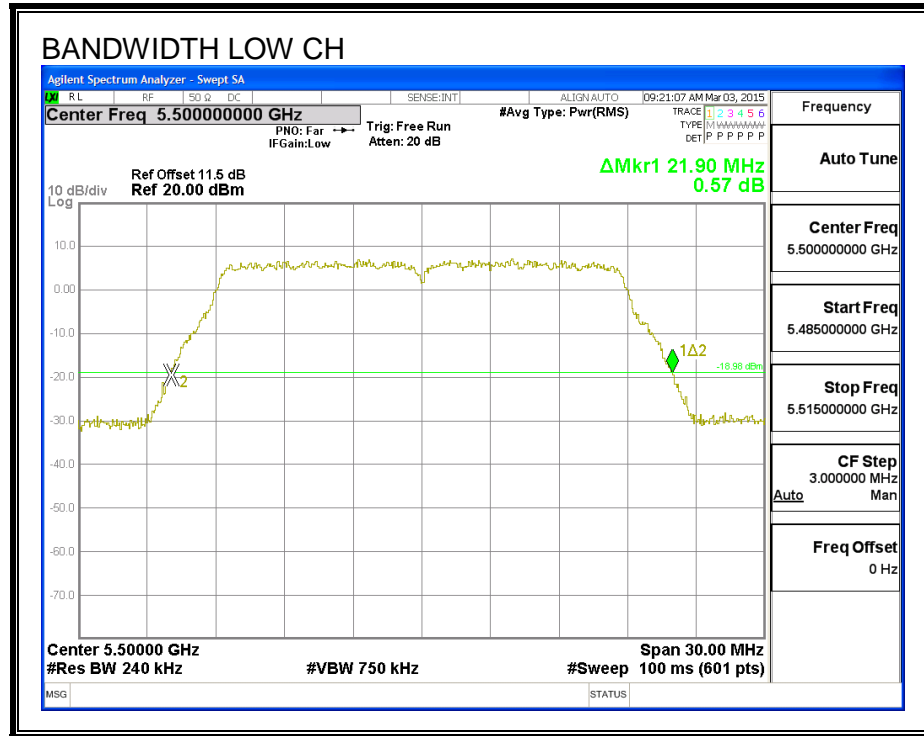
LIMITS

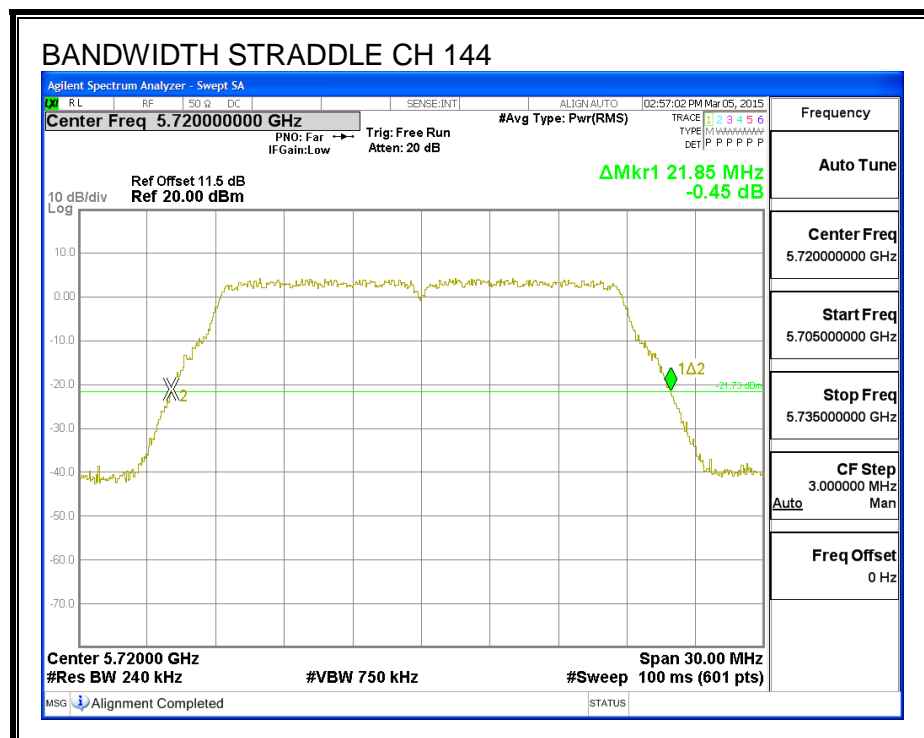
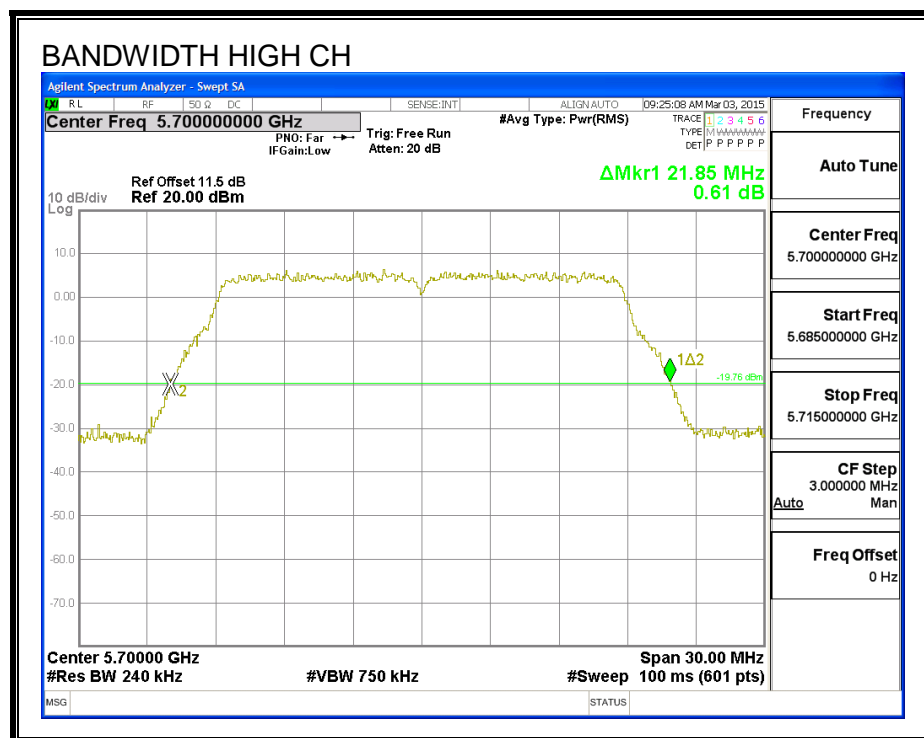
None; for reporting purposes only.

RESULTS

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) |
|---------|--------------------|--------------------------|
| Low | 5500 | 21.90 |
| Mid | 5580 | 21.80 |
| High | 5700 | 21.85 |
| 144 | 5720 | 21.85 |

26 dB BANDWIDTH





8.17.2. 99% BANDWIDTH

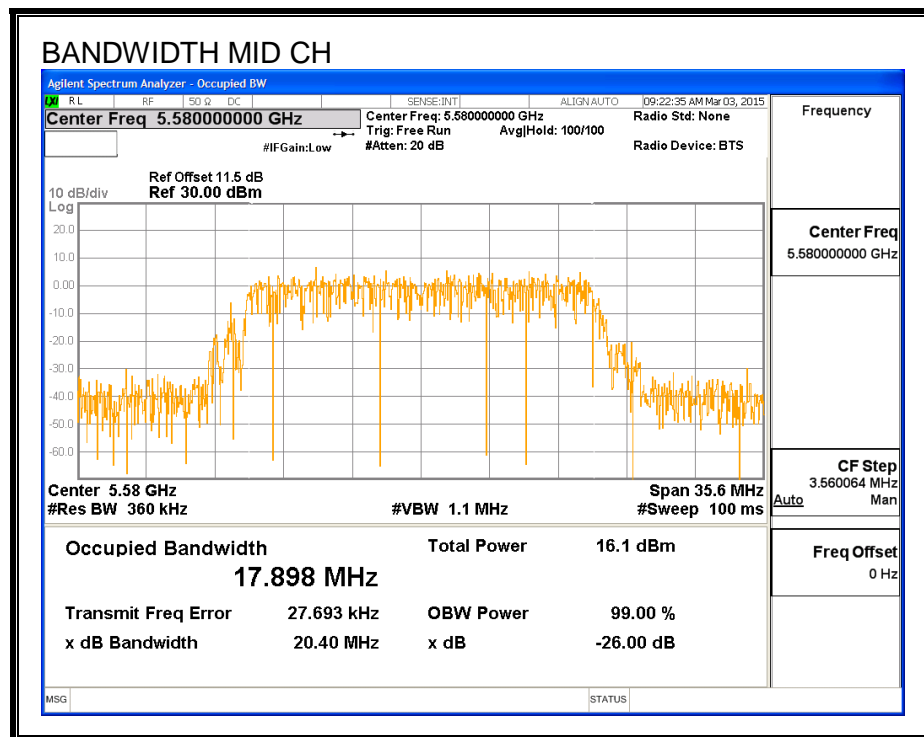
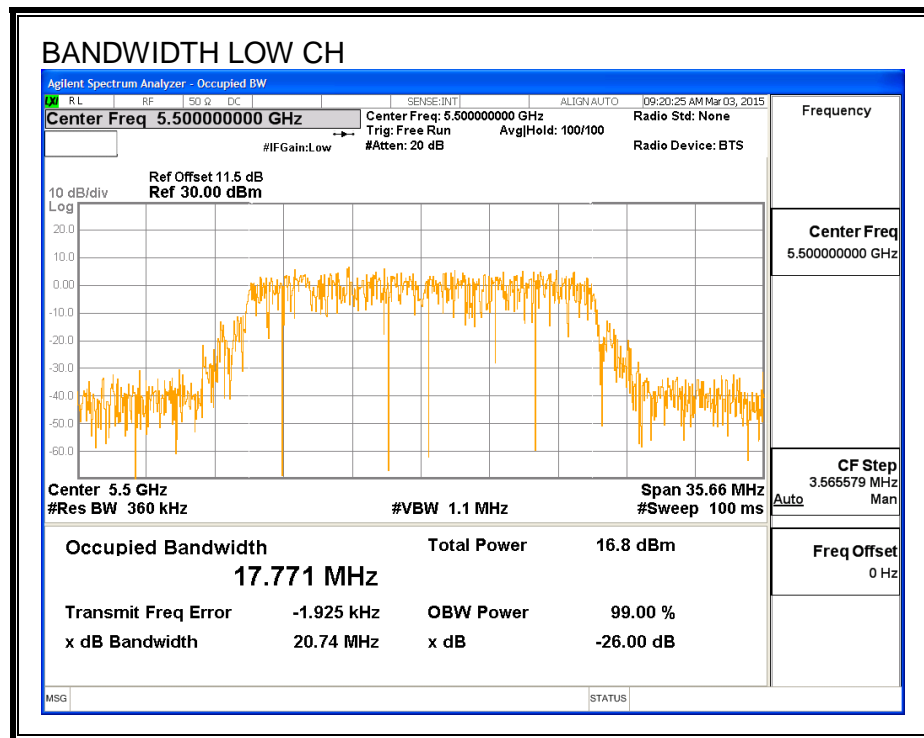
LIMITS

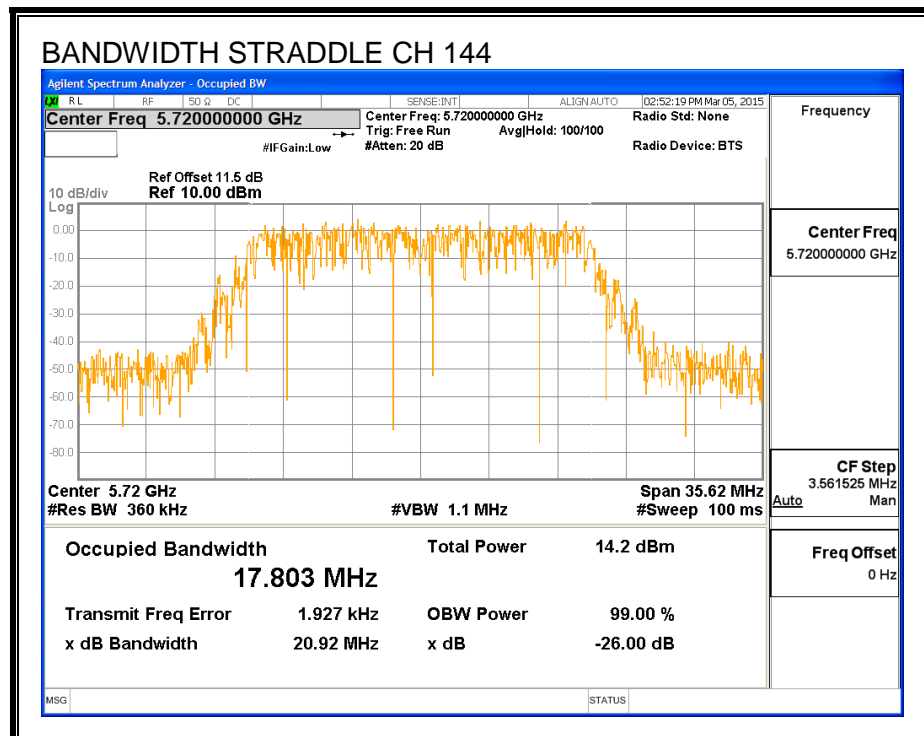
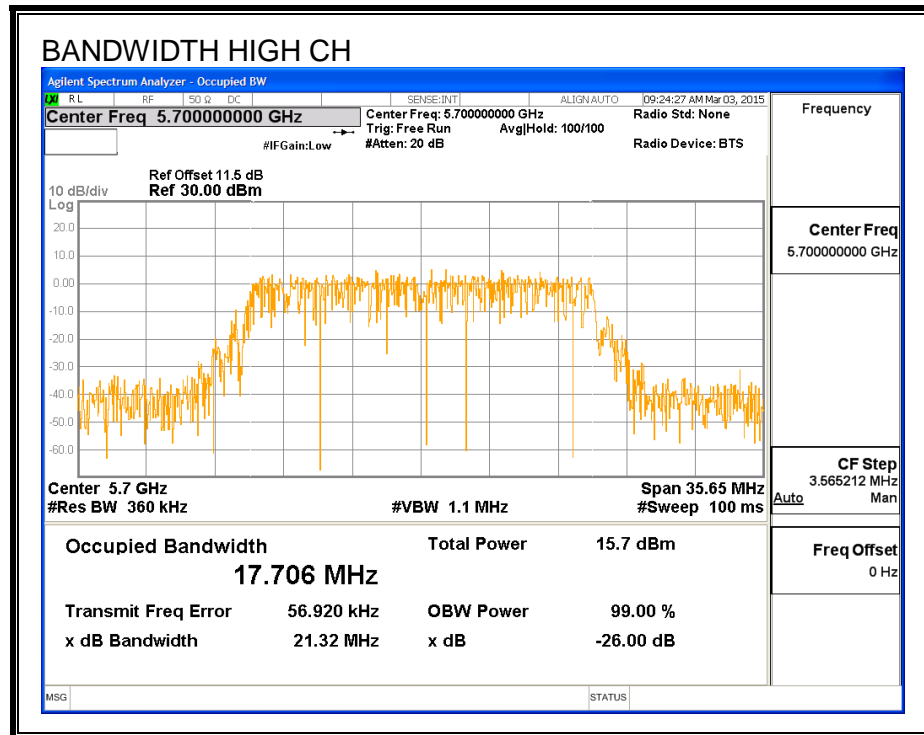
None; for reporting purposes only.

RESULTS

| Channel | Frequency (MHz) | 99% Bandwidth (MHz) |
|---------|--------------------|------------------------|
| Low | 5500 | 17.771 |
| Mid | 5580 | 17.898 |
| High | 5700 | 17.706 |
| 144 | 5720 | 17.803 |

99% BANDWIDTH





8.17.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

| Channel | Frequency (MHz) | Power (dBm) |
|---------|--------------------|----------------|
| Low | 5500 | 15.34 |
| Mid | 5580 | 15.44 |
| High | 5700 | 14.98 |
| 144 | 5720 | 15.39 |

8.17.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.47–5.725 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS

Bandwidth, Antenna Gain, and Limits

| Channel | Frequency (MHz) | Min 26 dB BW (MHz) | Directional Gain (dBi) | Power Limit (dBm) | PSD Limit (dBm) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|-----------------------|
| Low | 5500 | 21.90 | 3.90 | 24.00 | 11.00 |
| Mid | 5580 | 21.80 | 3.90 | 24.00 | 11.00 |
| High | 5700 | 21.85 | 3.90 | 24.00 | 11.00 |

| | | |
|---------------------------|------|---|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd Power & PSD |
|---------------------------|------|---|

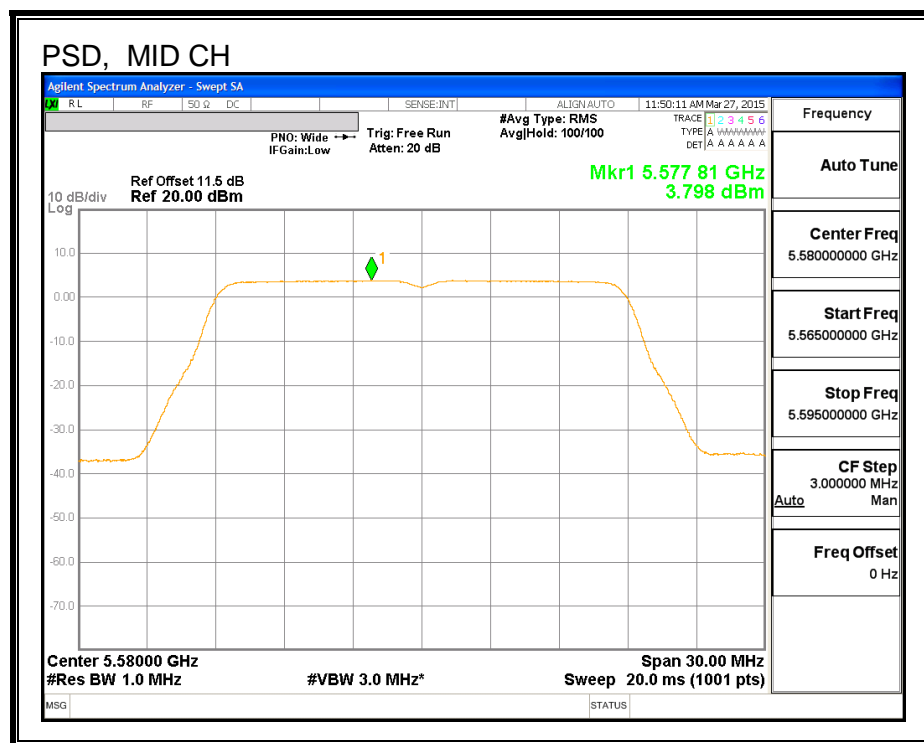
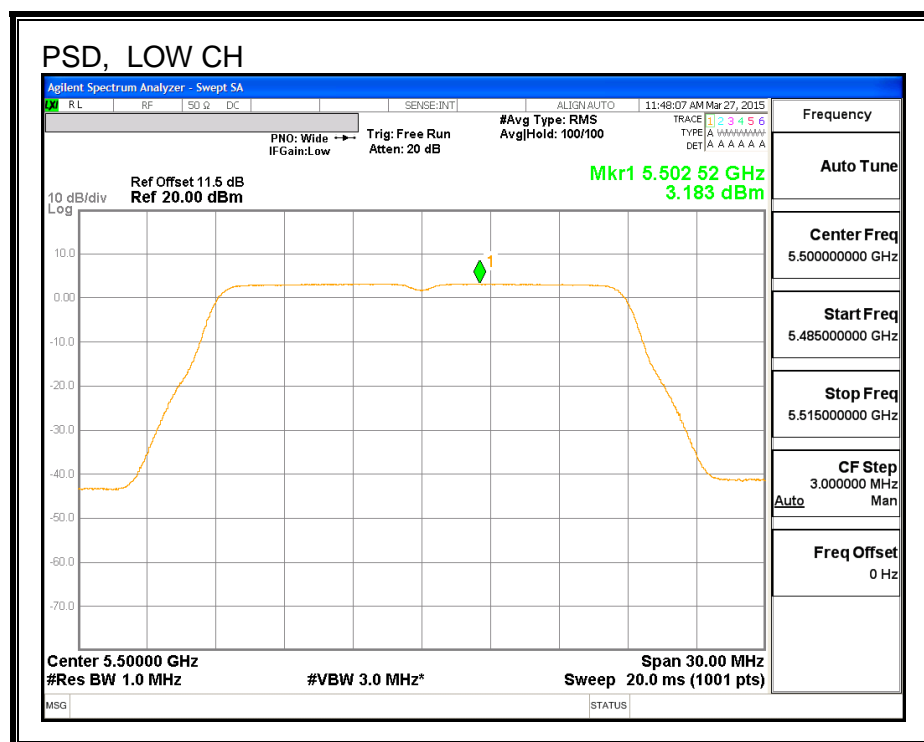
Output Power Results

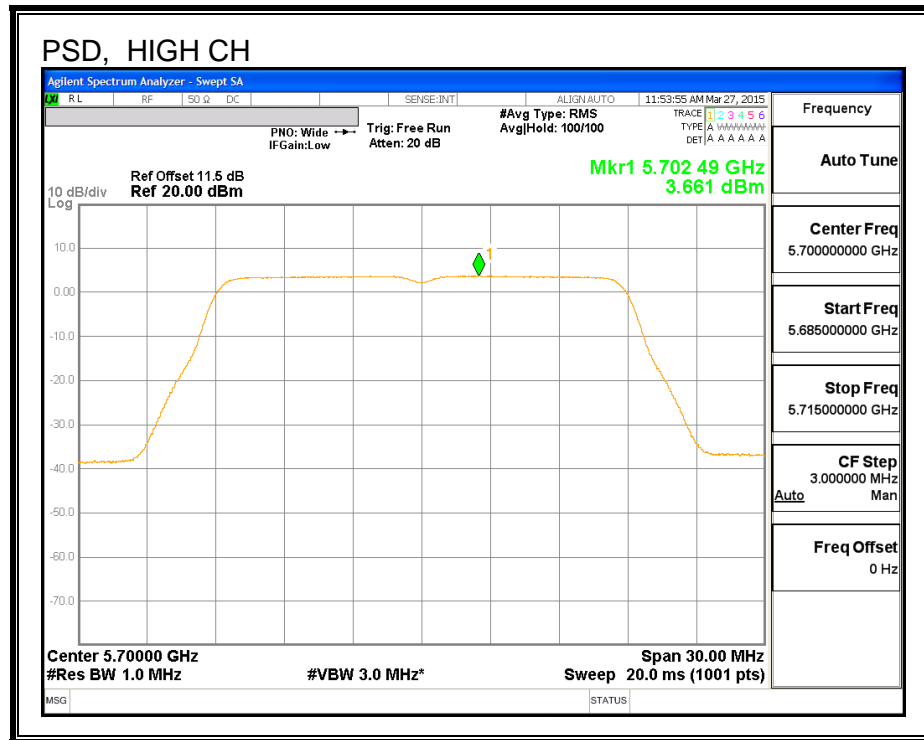
| Channel | Frequency (MHz) | Antenna B Meas Power (dBm) | Total Corr'd Power (dBm) | Power Limit (dBm) | Power Margin (dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low | 5500 | 15.34 | 15.34 | 24.00 | -8.66 |
| Mid | 5580 | 15.44 | 15.44 | 24.00 | -8.56 |
| High | 5700 | 14.98 | 14.98 | 24.00 | -9.02 |

PSD Results

| Channel | Frequency (MHz) | Antenna B Meas PSD (dBm) | Total Corr'd PSD (dBm) | PSD Limit (dBm) | PSD Margin (dB) |
|---------|--------------------|-----------------------------------|---------------------------------|-----------------------|-----------------------|
| Low | 5500 | 3.18 | 3.18 | 11.00 | -7.82 |
| Mid | 5580 | 3.80 | 3.80 | 11.00 | -7.20 |
| High | 5700 | 3.66 | 3.66 | 11.00 | -7.34 |

PSD





STRADDLE CHANNEL 144 RESULTS

UNII-2C BAND

Bandwidth, Antenna Gain, and Limits

| Channel | Frequency (MHz) | Min 26 dB BW (MHz) | Directional Gain for Power (dBi) | Directional Gain for PSD (dBi) | Power Limit (dBm) | PSD Limit (dBm) |
|---------|--------------------|-----------------------------|---|---|-------------------------|-----------------------|
| 144 | 5720 | 15.93 | 3.90 | 3.90 | 23.02 | 11.00 |

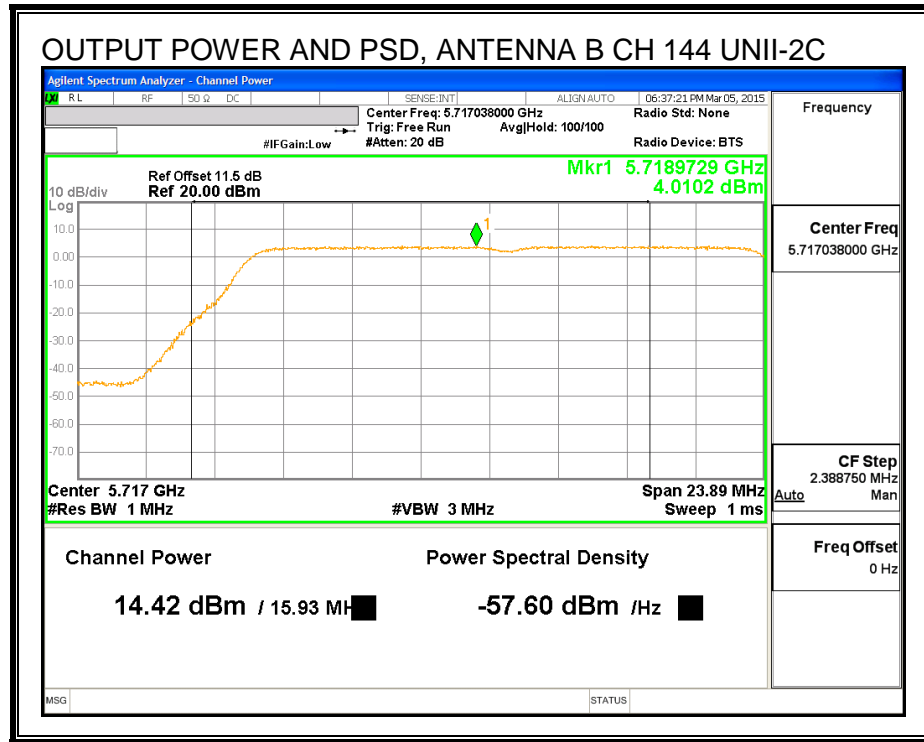
| | | |
|---------------------------|------|---|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd Power & PSD |
|---------------------------|------|---|

Output Power Results

| Channel | Frequency (MHz) | Antenna B Meas Power (dBm) | Total Corr'd Power (dBm) | Power Limit (dBm) | Power Margin (dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| 144 | 5720 | 14.42 | 14.42 | 23.02 | -8.60 |

PSD Results

| Channel | Frequency (MHz) | Antenna B Meas PSD (dBm) | Total Corr'd PSD (dBm) | PSD Limit (dBm) | PSD Margin (dB) |
|---------|--------------------|-----------------------------------|---------------------------------|-----------------------|-----------------------|
| 144 | 5720 | 4.01 | 4.01 | 11.00 | -6.99 |



UNII-3 BAND

Antenna Gain and Limit

| Channel | Frequency (MHz) | Min 26 dB BW (MHz) | Directional Gain (dBi) | Power Limit (dBm) | PSD Limit (dBm) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|-----------------------|
| 144 | 5720 | 5.93 | 3.70 | 30.00 | 30.00 |

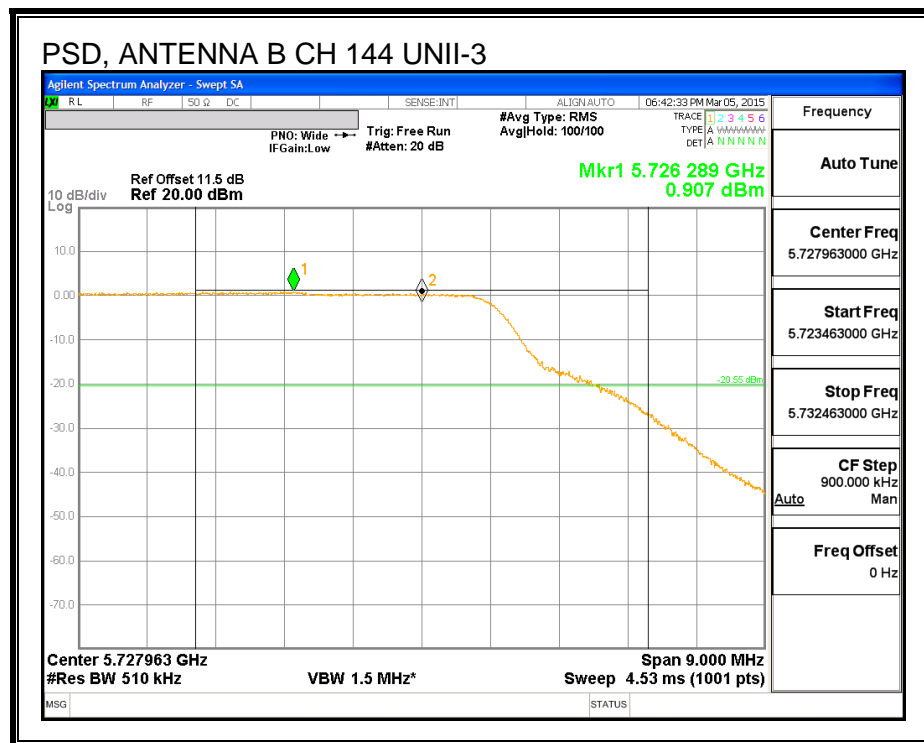
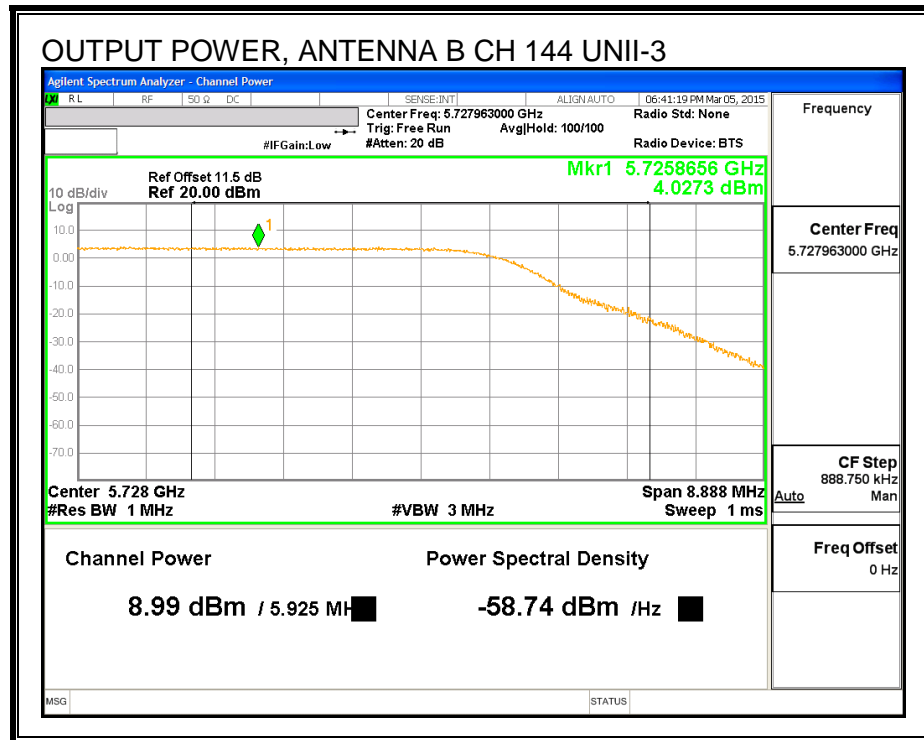
| | | |
|--------------------|------|--|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd Power & PSD |
|--------------------|------|--|

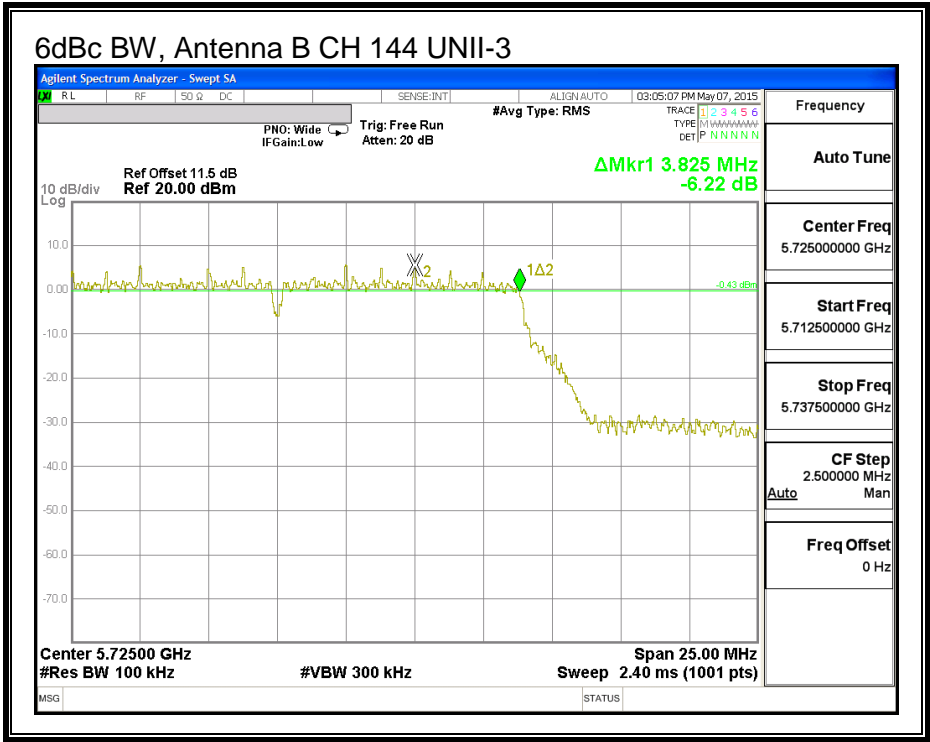
Output Power Results

| Channel | Frequency (MHz) | Antenna B Meas Power (dBm) | Total Corr'd Power (dBm) | Power Limit (dBm) | Power Margin (dB) |
|---------|--------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| 144 | 5720 | 8.99 | 8.99 | 30.00 | -21.01 |

PSD Results

| Channel | Frequency (MHz) | Antenna B Meas PSD (dBm) | Total Corr'd PSD (dBm) | PSD Limit (dBm) | PSD Margin (dB) |
|---------|--------------------|-----------------------------------|---------------------------------|-----------------------|-----------------------|
| 144 | 5720 | 0.91 | 0.91 | 30.00 | -29.09 |





8.18. 802.11n HT20 2Tx CDD MODE IN THE 5.6 GHz BAND

8.18.1. 26 dB BANDWIDTH

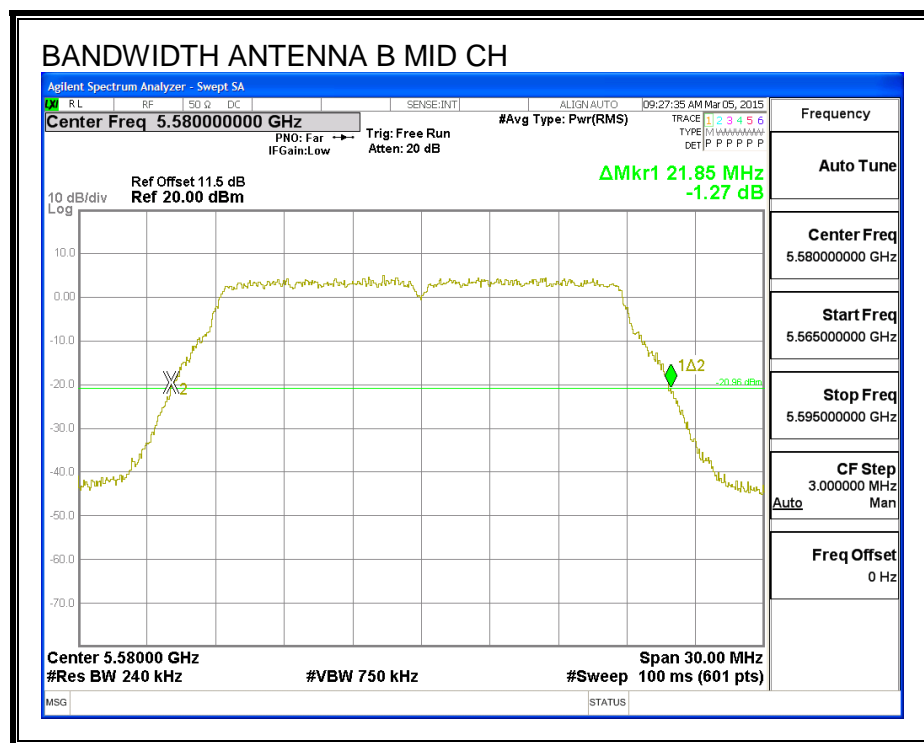
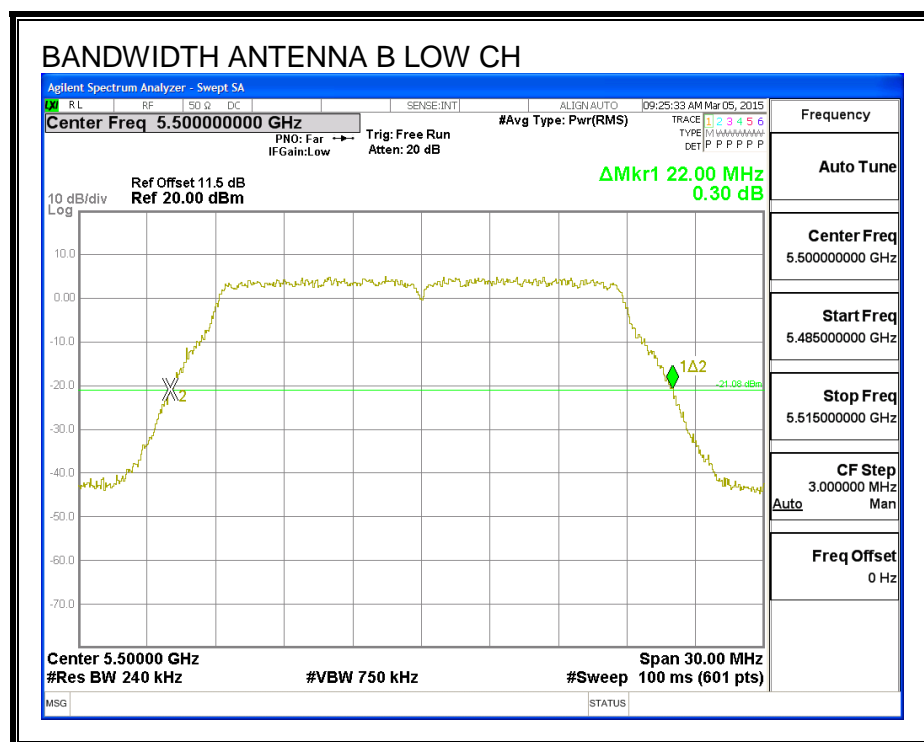
LIMITS

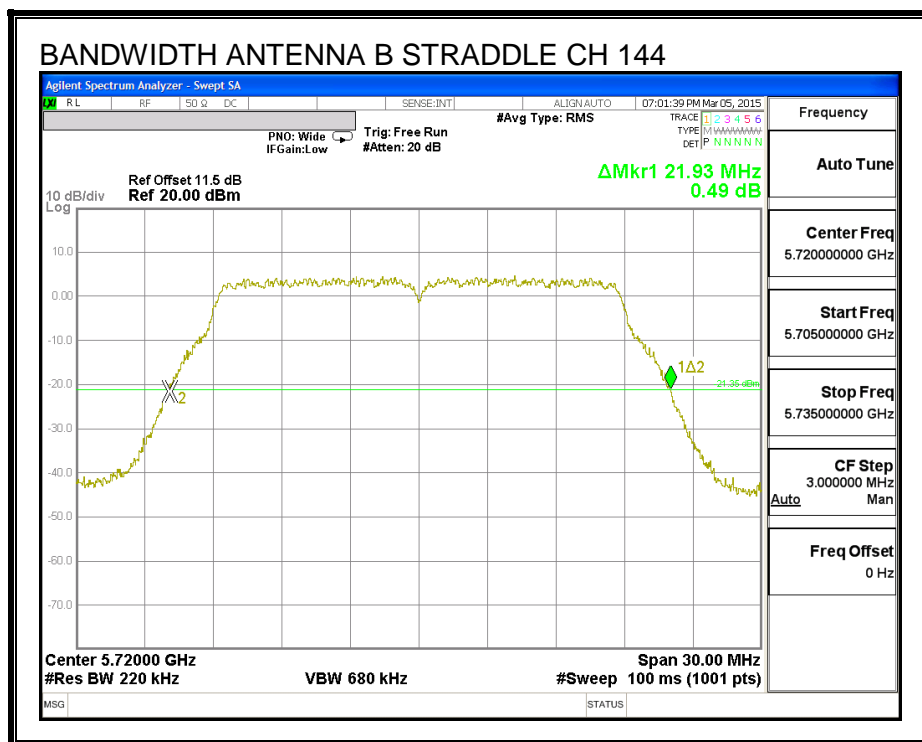
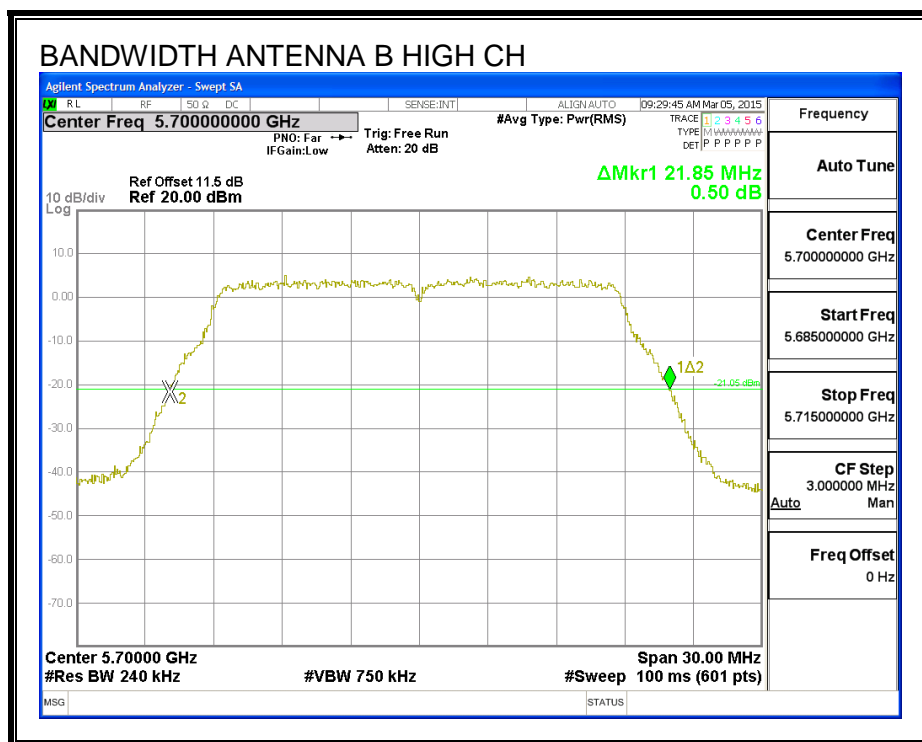
None; for reporting purposes only.

RESULTS

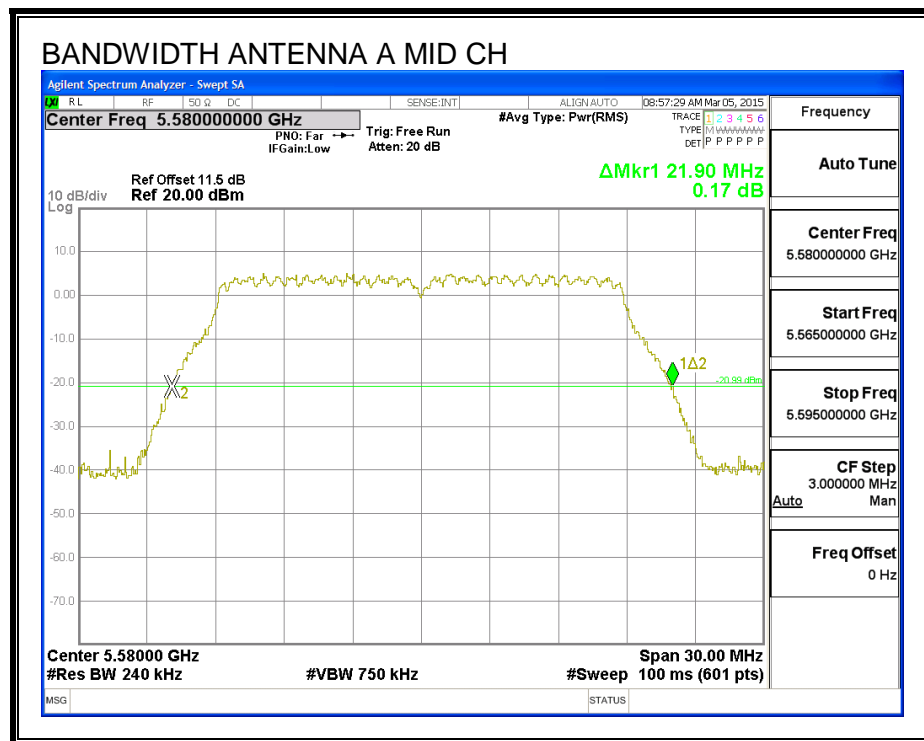
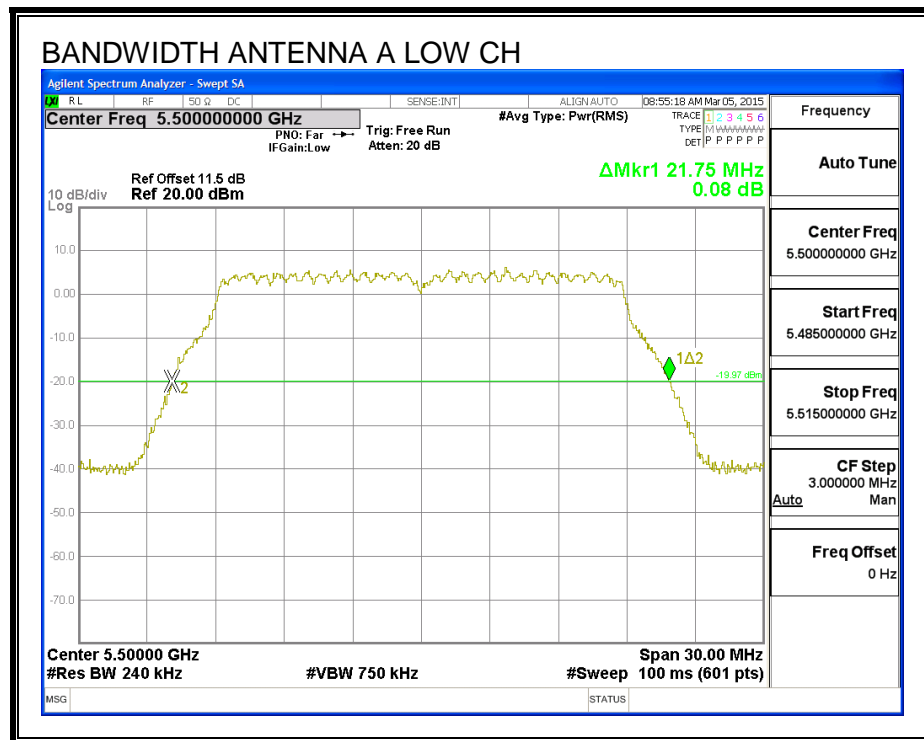
| Channel | Frequency (MHz) | 26 dB BW Antenna B (MHz) | 26 dB BW Antenna A (MHz) |
|---------|--------------------|--------------------------------|--------------------------------|
| Low | 5500 | 22.00 | 21.75 |
| Mid | 5580 | 21.85 | 21.90 |
| High | 5700 | 21.85 | 21.80 |
| 144 | 5720 | 21.93 | 21.96 |

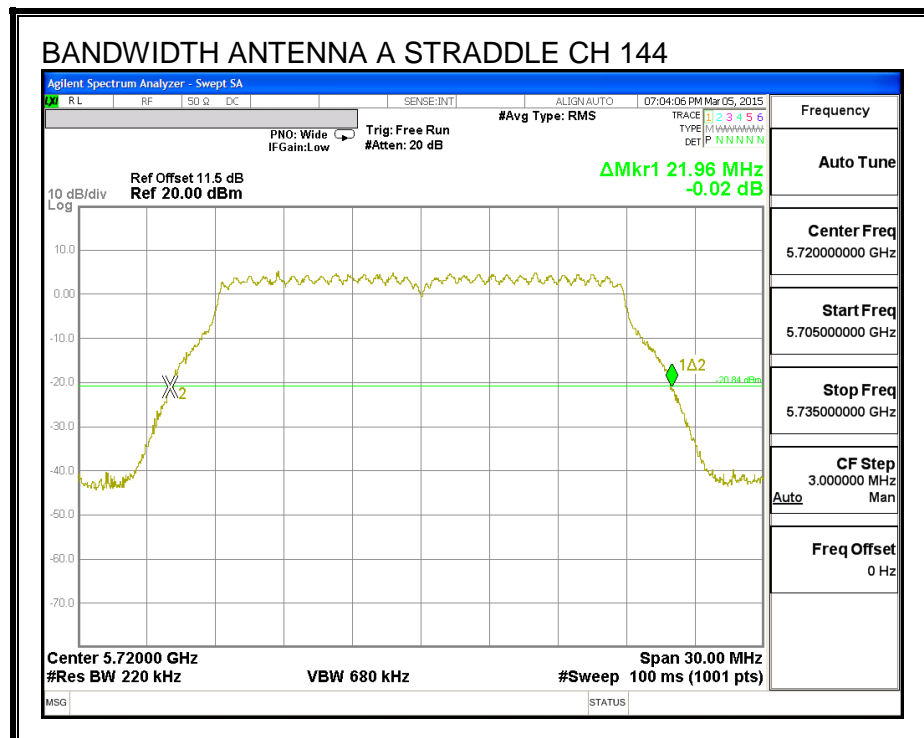
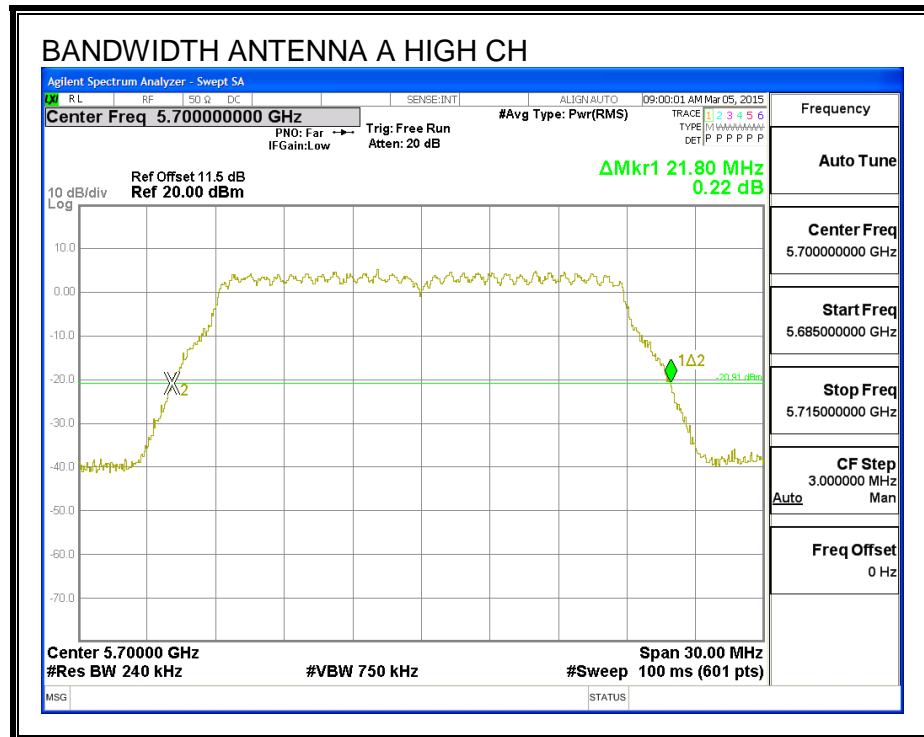
26 dB BANDWIDTH, ANTENNA B





26 dB BANDWIDTH, ANTENNA A





8.18.2. 99% BANDWIDTH

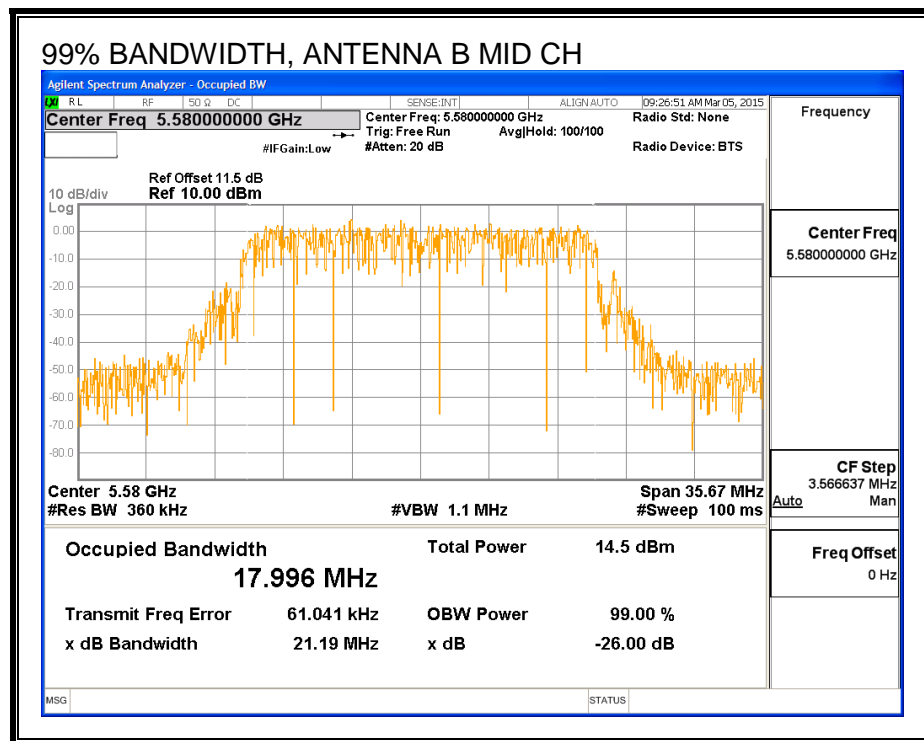
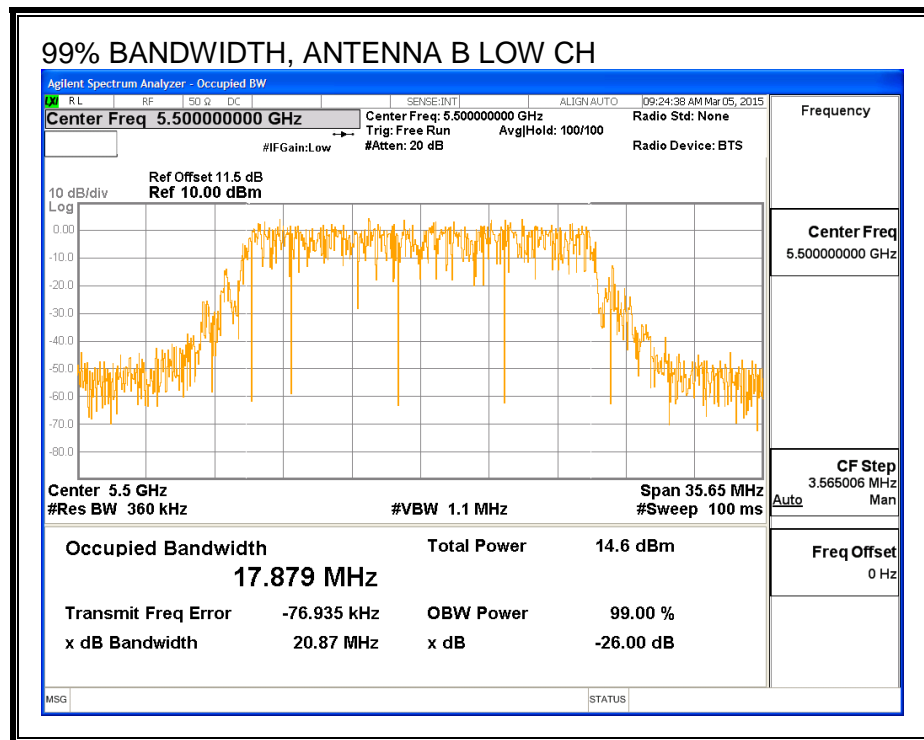
LIMITS

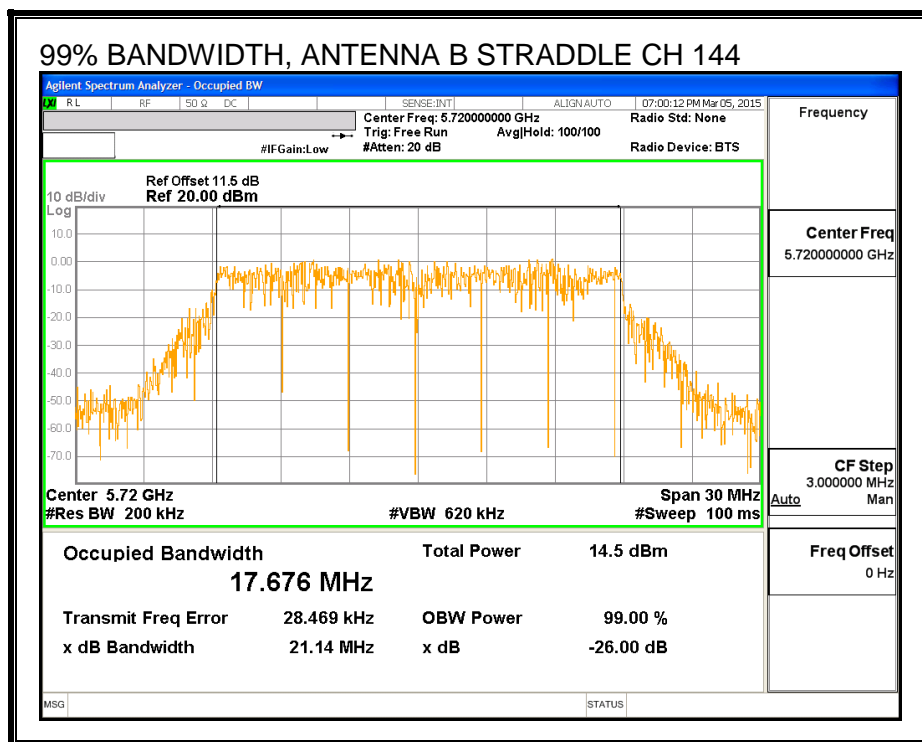
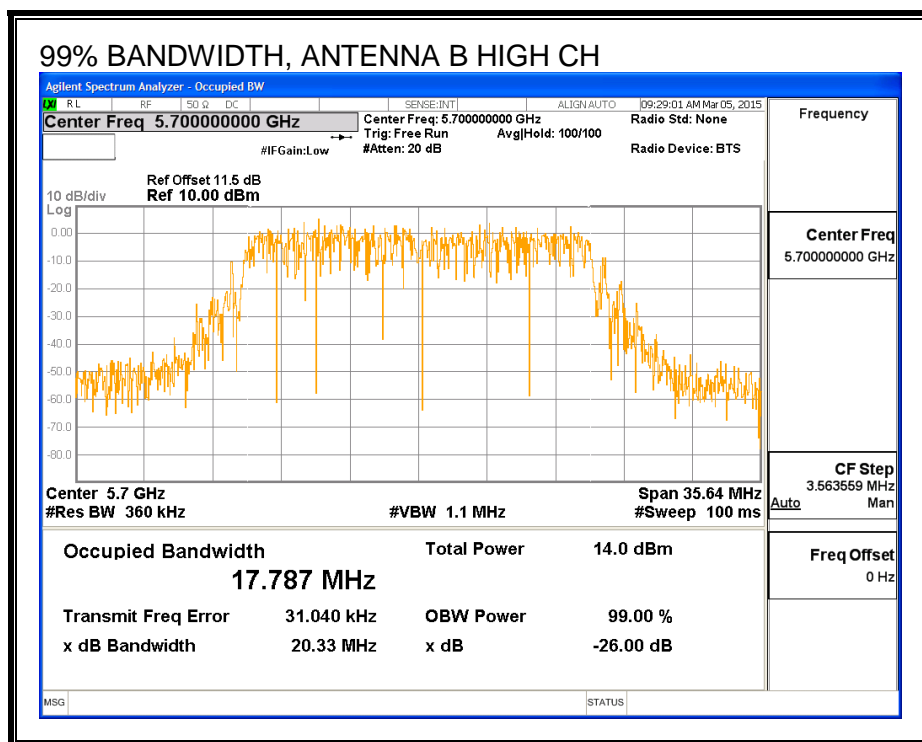
None; for reporting purposes only.

RESULTS

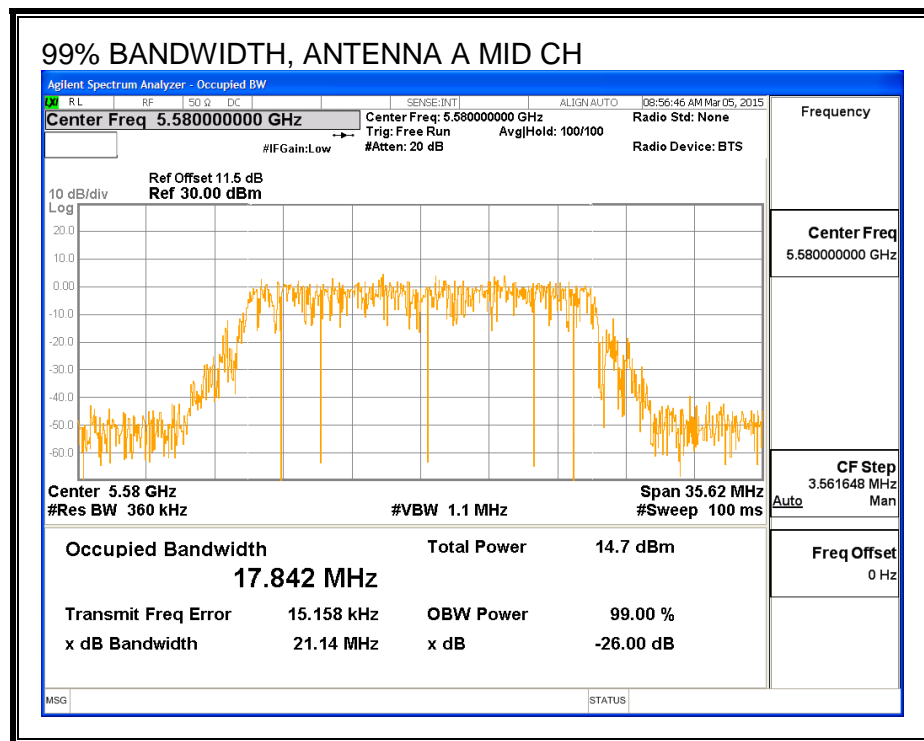
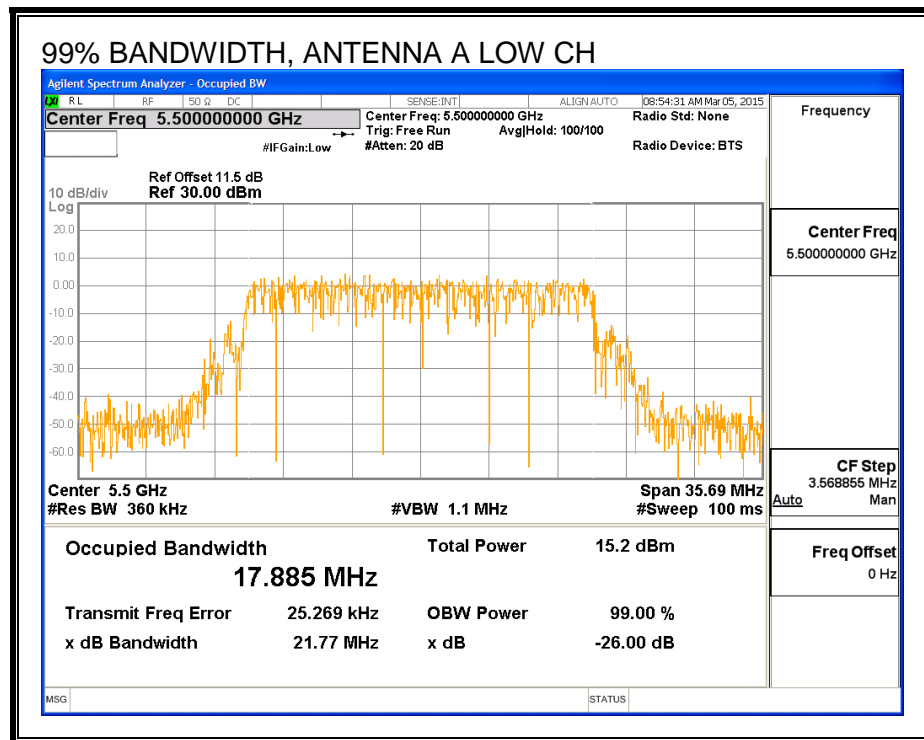
| Channel | Frequency (MHz) | 99% BW Antenna B (MHz) | 99% BW Antenna A (MHz) |
|---------|--------------------|------------------------------|------------------------------|
| Low | 5500 | 17.879 | 17.885 |
| Mid | 5580 | 17.996 | 17.842 |
| High | 5700 | 17.787 | 17.901 |
| 144 | 5720 | 17.676 | 17.710 |

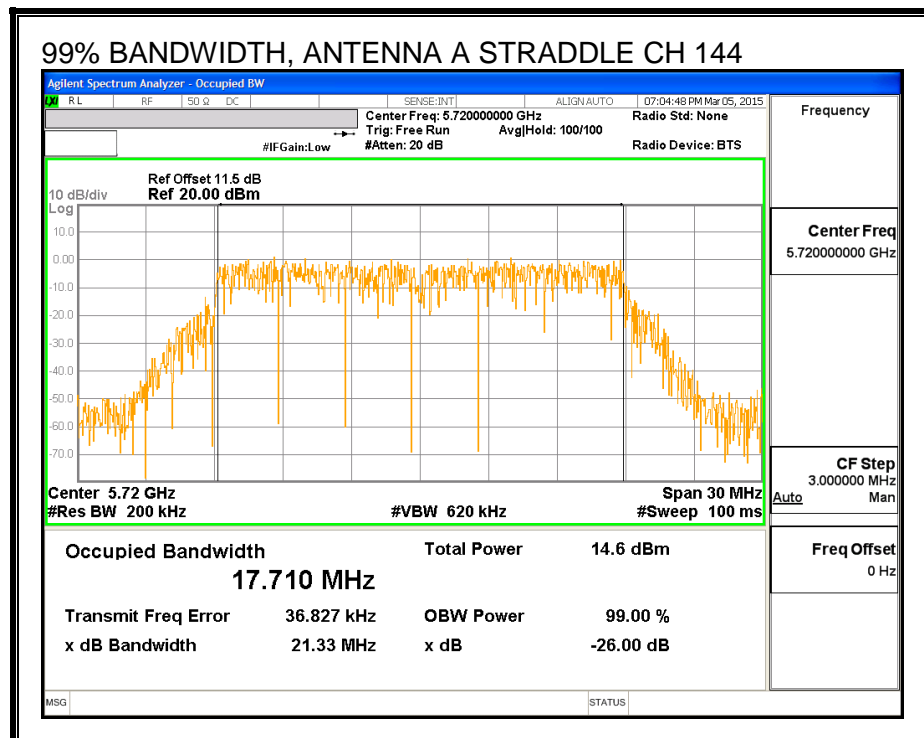
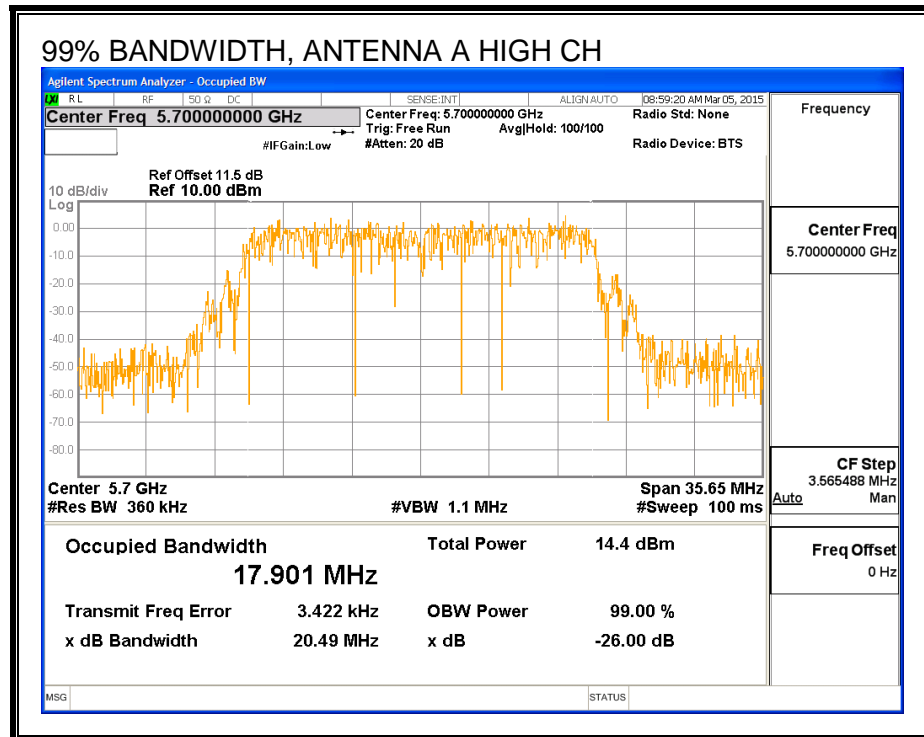
99% BANDWIDTH, ANTENNA B





99% BANDWIDTH, ANTENNA A





8.18.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

Average Power Results

| Channel | Frequency (MHz) | Antenna B Power (dBm) | Antenna A Power (dBm) | Total Power (dBm) |
|---------|--------------------|-----------------------------|-----------------------------|-------------------------|
| Low | 5500 | 14.28 | 14.24 | 17.27 |
| Mid | 5580 | 14.79 | 14.73 | 17.77 |
| High | 5700 | 13.75 | 13.80 | 16.78 |
| 144 | 5720 | 14.87 | 14.92 | 17.91 |

8.18.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.47–5.725 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

| Antenna B Antenna Gain (dBi) | Antenna A Antenna Gain (dBi) | Uncorrelated Chains Directional Gain (dBi) |
|---------------------------------------|---------------------------------------|---|
| 3.90 | 3.20 | 3.56 |

The TX chains are correlated and the antenna gain is unequal among the chains. The directional gain is:

| Antenna B Antenna Gain (dBi) | Antenna A Antenna Gain (dBi) | Correlated Chains Directional Gain (dBi) |
|---------------------------------------|---------------------------------------|---|
| 3.90 | 3.20 | 6.57 |

RESULTS

Bandwidth, Antenna Gain, and Limits

| Channel | Frequency (MHz) | Min 26 dB BW (MHz) | Directional Gain for Power (dBi) | Directional Gain for PSD (dBi) | Power Limit (dBm) | PSD Limit (dBm) |
|---------|--------------------|-----------------------------|---|---|-------------------------|-----------------------|
| Low | 5500 | 21.75 | 3.56 | 6.57 | 24.00 | 10.43 |
| Mid | 5580 | 21.85 | 3.56 | 6.57 | 24.00 | 10.43 |
| High | 5700 | 21.80 | 3.56 | 6.57 | 24.00 | 10.43 |

| | | |
|---------------------------|------|---|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd Power & PSD |
|---------------------------|------|---|

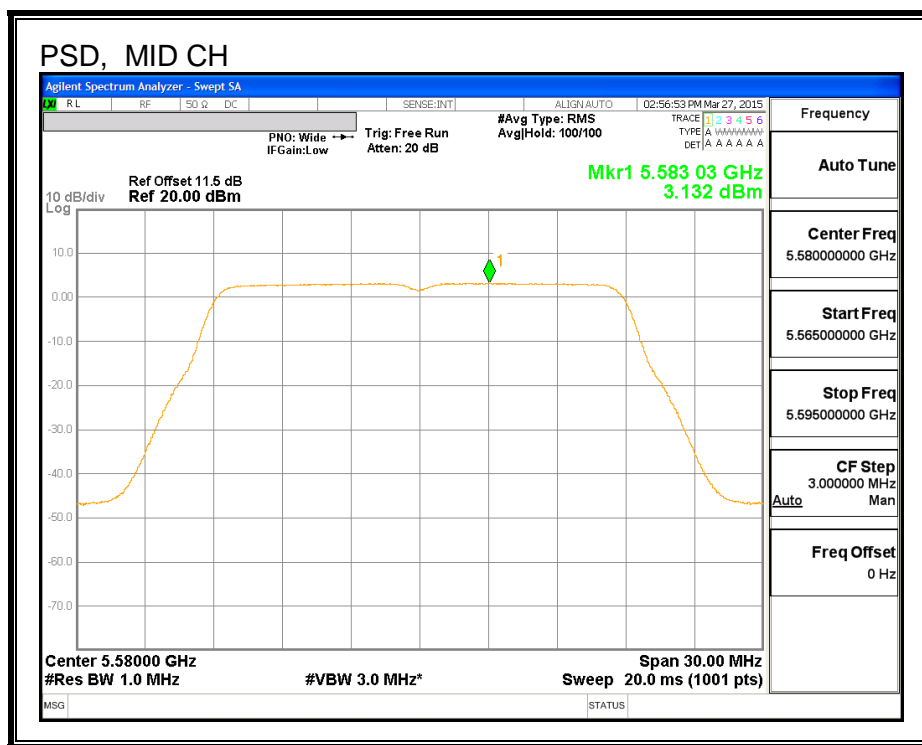
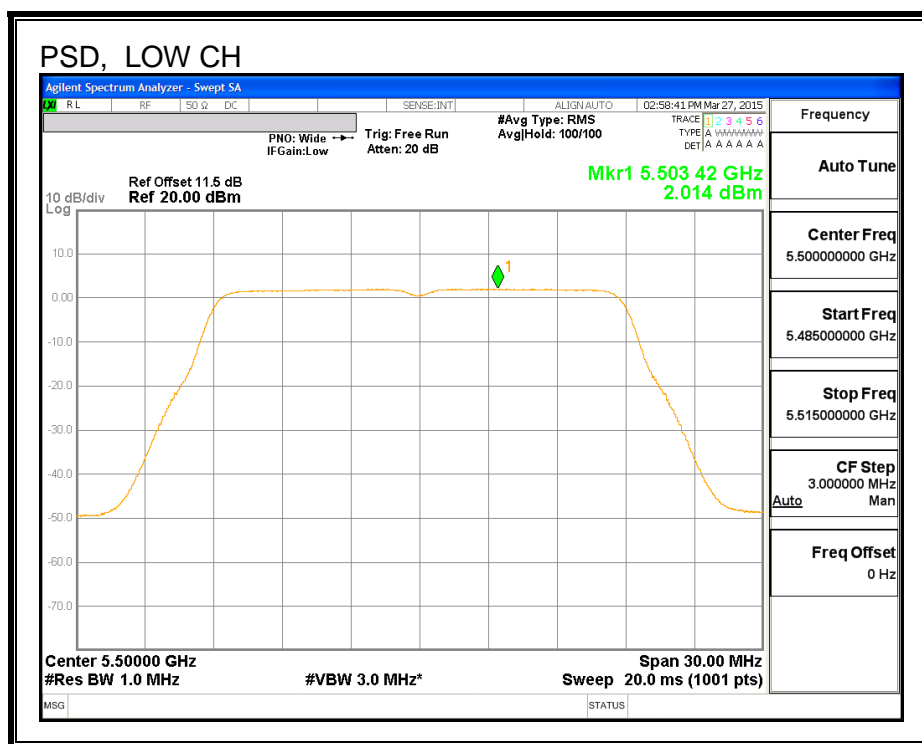
Output Power Results

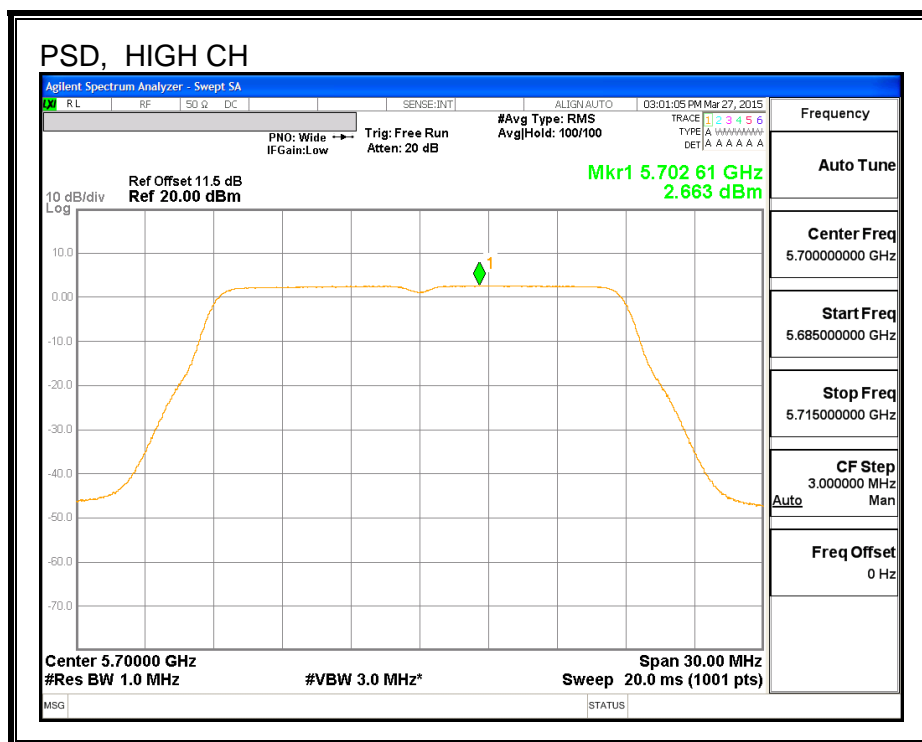
| Channel | Frequency (MHz) | Antenna B Meas Power (dBm) | Antenna A Meas Power (dBm) | Total Corr'd Power (dBm) | Power Limit (dBm) | Power Margin (dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low | 5500 | 14.28 | 14.24 | 17.27 | 24.00 | -6.73 |
| Mid | 5580 | 14.79 | 14.73 | 17.77 | 24.00 | -6.23 |
| High | 5700 | 13.75 | 13.80 | 16.78 | 24.00 | -7.22 |

PSD Results

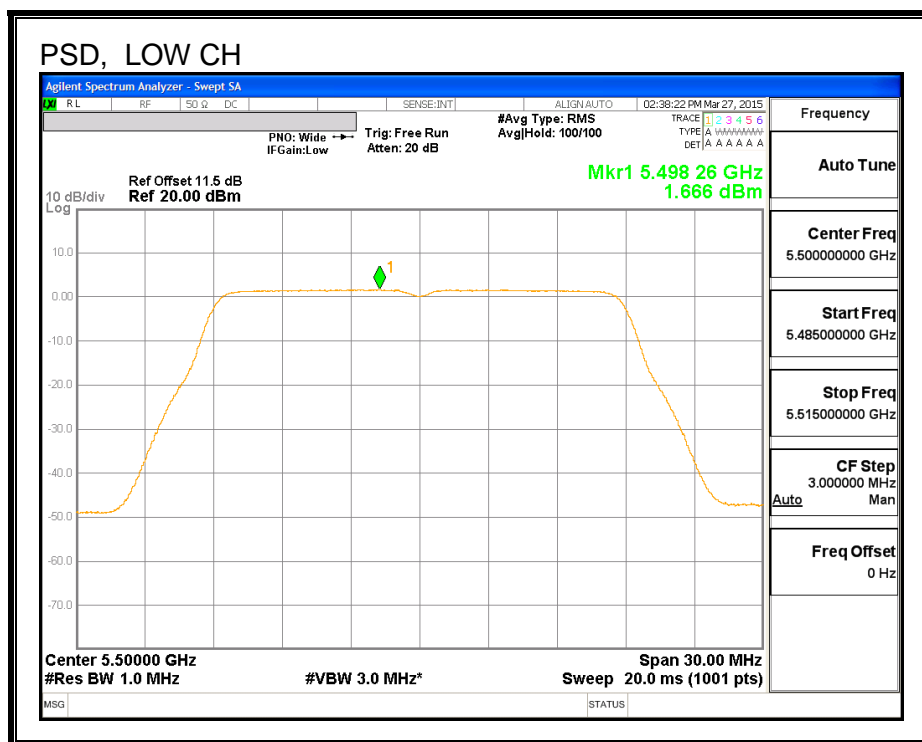
| Channel | Frequency (MHz) | Antenna B Meas PSD (dBm) | Antenna A Meas PSD (dBm) | Total Corr'd PSD (dBm) | PSD Limit (dBm) | PSD Margin (dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|---------------------------------|-----------------------|-----------------------|
| Low | 5500 | 2.01 | 1.67 | 4.85 | 10.43 | -5.58 |
| Mid | 5580 | 3.13 | 2.72 | 5.94 | 10.43 | -4.49 |
| High | 5700 | 2.66 | 2.27 | 5.48 | 10.43 | -4.95 |

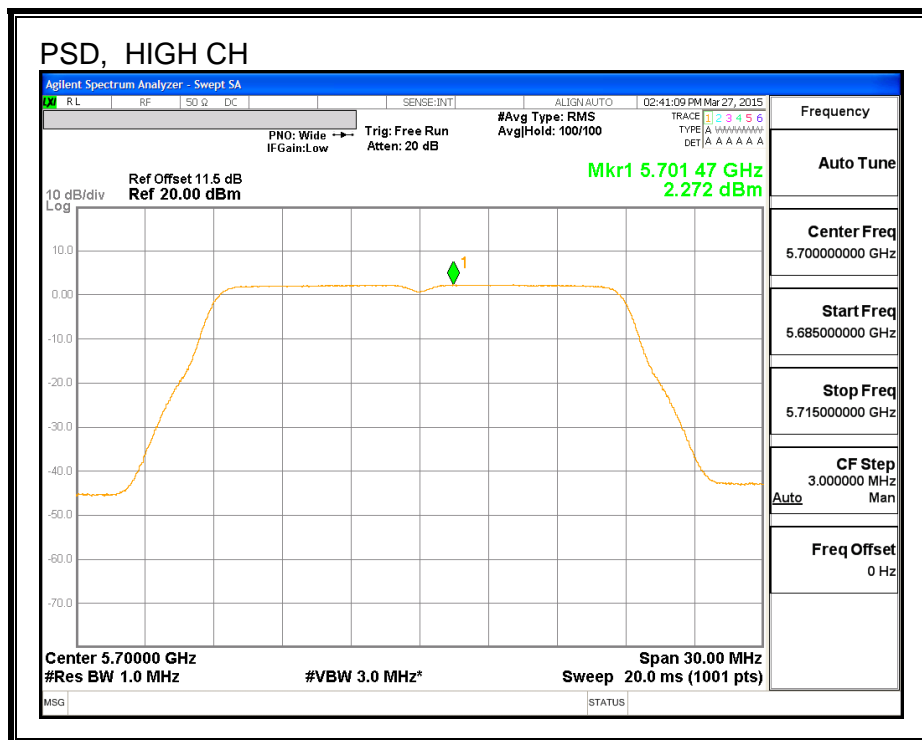
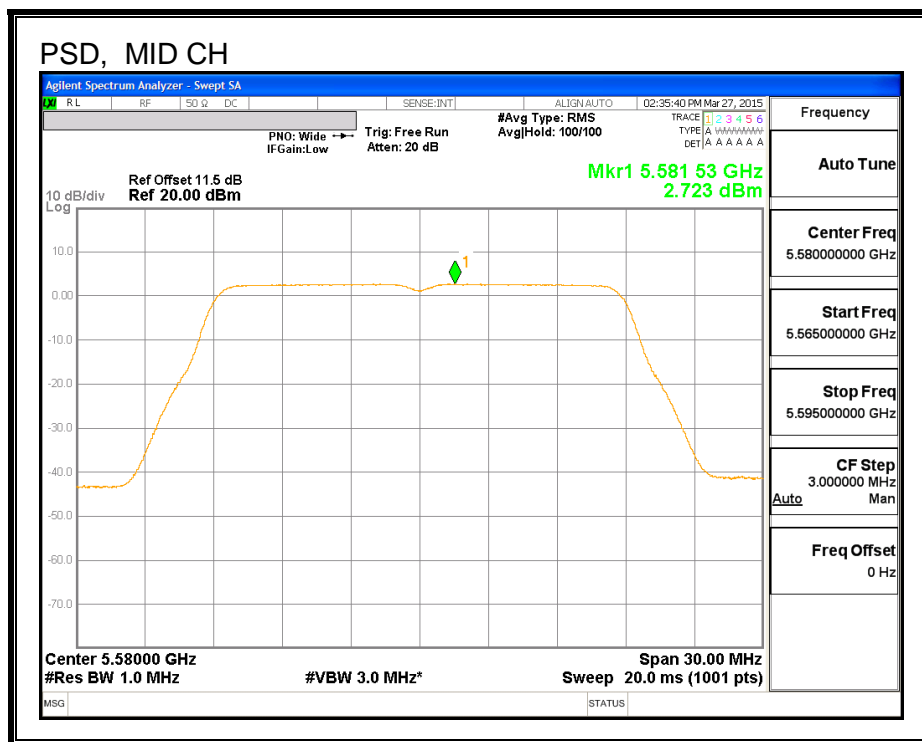
PSD, ANTENNA B





PSD, ANTENNA A





STRADDLE CHANNEL 144 RESULTS

UNII-2C BAND

Bandwidth, Antenna Gain, and Limits

| Channel | Frequency (MHz) | Min 26 dB BW (MHz) | Directional Gain for Power (dBi) | Directional Gain for PSD (dBi) | Power Limit (dBm) | PSD Limit (dBm) |
|---------|--------------------|-----------------------------|---|---|-------------------------|-----------------------|
| 144 | 5720 | 15.98 | 3.56 | 6.57 | 23.04 | 10.43 |

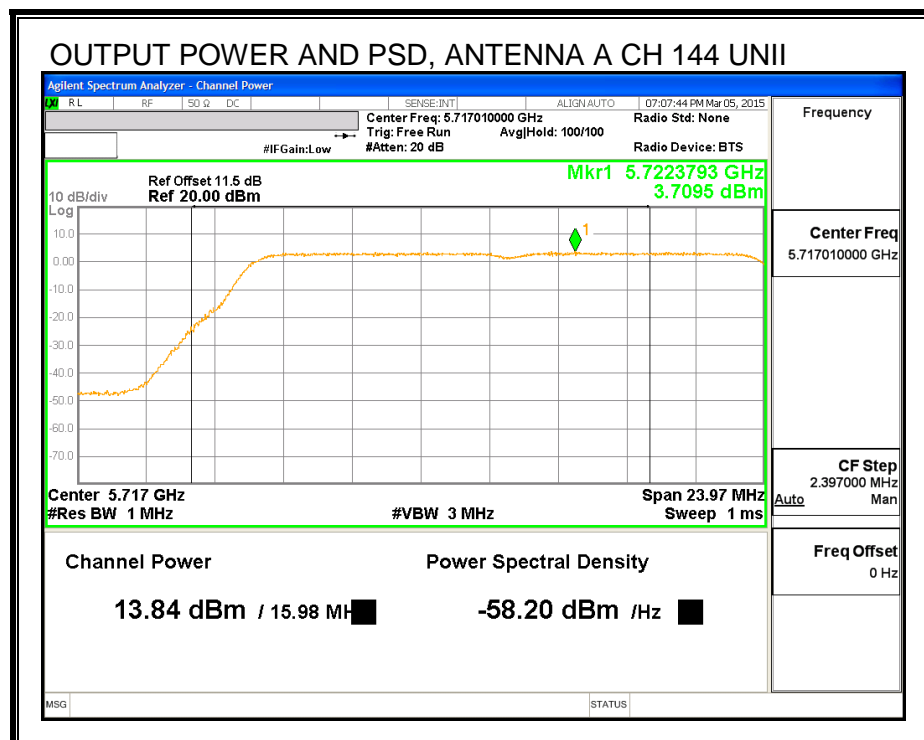
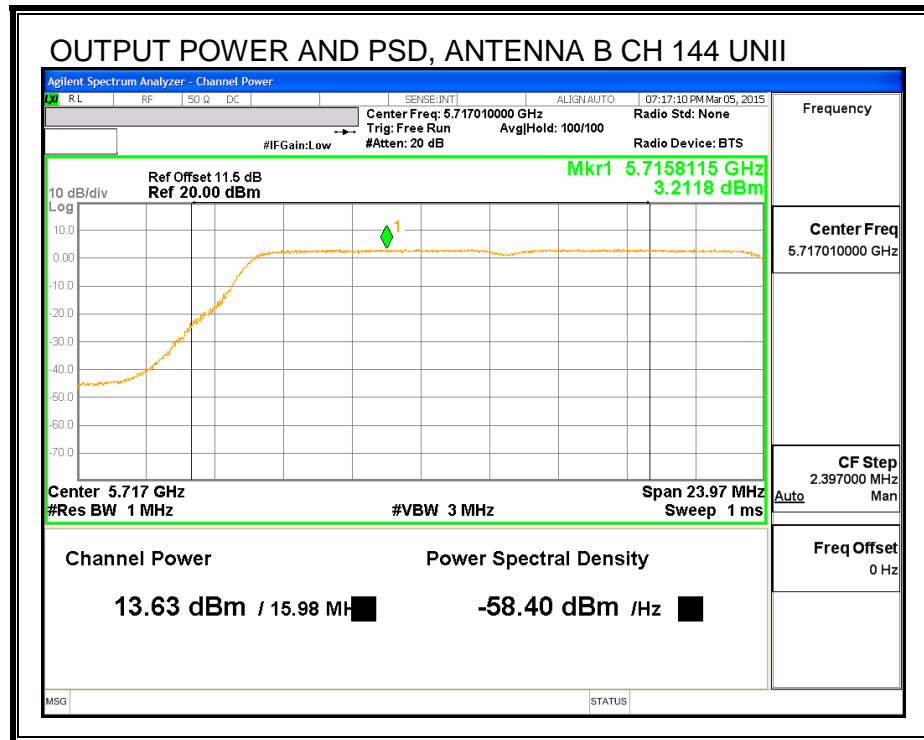
| | | |
|--------------------|------|--|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd Power & PSD |
|--------------------|------|--|

Output Power Results

| Channel | Frequency (MHz) | Antenna B Meas Power (dBm) | Antenna A Meas Power (dBm) | Total Corr'd Power (dBm) | Power Limit (dBm) | Power Margin (dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| 144 | 5720 | 13.63 | 13.84 | 16.75 | 23.04 | -6.29 |

PSD Results

| Channel | Frequency (MHz) | Antenna B Meas PSD (dBm) | Antenna A Meas PSD (dBm) | Total Corr'd PSD (dBm) | PSD Limit (dBm) | PSD Margin (dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|---------------------------------|-----------------------|-----------------------|
| 144 | 5720 | 3.21 | 3.71 | 6.48 | 10.43 | -3.95 |



UNII-3 BAND

Antenna Gain and Limit

| Channel | Frequency (MHz) | Min 26 dB BW (MHz) | Directional Gain For Power (dBi) | Directional Gain For PSD (dBi) | Power Limit (dBm) | PSD Limit (dBm) |
|---------|--------------------|-----------------------------|---|---|-------------------------|-----------------------|
| 144 | 5720 | 5.98 | 3.56 | 6.57 | 30.00 | 29.43 |

| | | |
|--------------------|------|--|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd Power & PSD |
|--------------------|------|--|

Output Power Results

| Channel | Frequency (MHz) | Antenna B Meas Power (dBm) | Antenna A Meas Power (dBm) | Total Corr'd Power (dBm) | Power Limit (dBm) | Power Margin (dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|-------------------------|
| 144 | 5720 | 8.16 | 8.41 | 11.30 | 30.00 | -18.70 |

PSD Results

| Channel | Frequency (MHz) | Antenna B Meas PSD (dBm) | Antenna A Meas PSD (dBm) | Total Corr'd PSD (dBm) | PSD Limit (dBm) | PSD Margin (dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|---------------------------------|-----------------------|-----------------------|
| 144 | 5720 | 0.14 | 0.25 | 3.20 | 29.43 | -26.23 |

