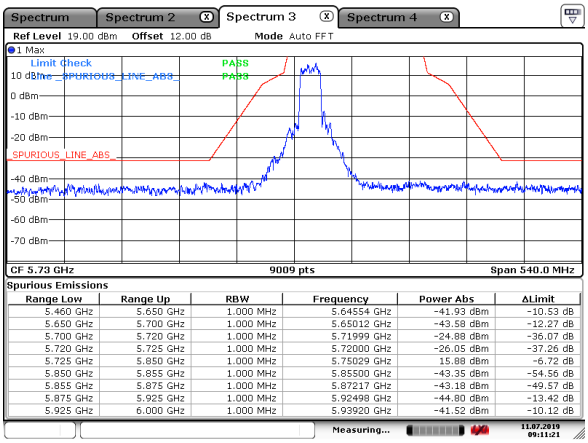
## 5745MHz with SISO

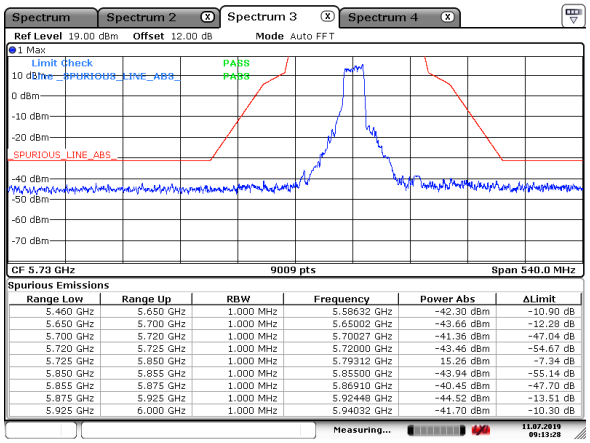



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 5.460 GHz | 5.650 GHz | 1.000 MHz | 5.64554 GHz | -41.93 dBm | -10.53 dB |
| 5.650 GHz | 5.700 GHz | 1.000 MHz | 5.65012 GHz | -43.58 dBm | -12.27 dB |
| 5.700 GHz | 5.720 GHz | 1.000 MHz | 5.71999 GHz | -24.88 dBm | -36.07 dB |
| 5.720 GHz | 5.725 GHz | 1.000 MHz | 5.72000 GHz | -26.05 dBm | -37.26 dB |
| 5.725 GHz | 5.850 GHz | 1.000 MHz | 5.75029 GHz | 15.88 dBm | -6.72 dB |
| 5.850 GHz | 5.855 GHz | 1.000 MHz | 5.85500 GHz | -43.35 dBm | -54.56 dB |
| 5.855 GHz | 5.875 GHz | 1.000 MHz | 5.87217 GHz | -43.18 dBm | -49.57 dB |
| 5.875 GHz | 5.925 GHz | 1.000 MHz | 5.92498 GHz | -44.80 dBm | -13.42 dB |
| 5.925 GHz | 6.000 GHz | 1.000 MHz | 5.93920 GHz | -41.52 dBm | -10.12 dB |

Date: 11.JUL.2019 09:11:21

## 5785MHz with SISO

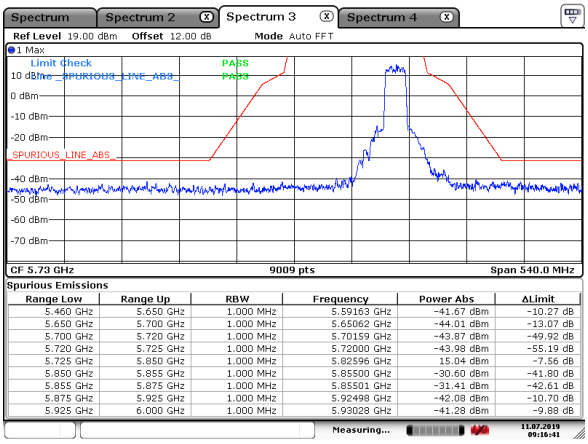



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 5.460 GHz | 5.650 GHz | 1.000 MHz | 5.58632 GHz | -42.30 dBm | -10.90 dB |
| 5.650 GHz | 5.700 GHz | 1.000 MHz | 5.65002 GHz | -43.66 dBm | -12.28 dB |
| 5.700 GHz | 5.720 GHz | 1.000 MHz | 5.70027 GHz | -41.36 dBm | -47.04 dB |
| 5.720 GHz | 5.725 GHz | 1.000 MHz | 5.72000 GHz | -43.46 dBm | -54.67 dB |
| 5.725 GHz | 5.850 GHz | 1.000 MHz | 5.79312 GHz | 15.26 dBm | -7.34 dB |
| 5.850 GHz | 5.855 GHz | 1.000 MHz | 5.85500 GHz | -43.94 dBm | -55.14 dB |
| 5.855 GHz | 5.875 GHz | 1.000 MHz | 5.86910 GHz | -40.45 dBm | -47.70 dB |
| 5.875 GHz | 5.925 GHz | 1.000 MHz | 5.92448 GHz | -44.52 dBm | -13.51 dB |
| 5.925 GHz | 6.000 GHz | 1.000 MHz | 5.94032 GHz | -41.70 dBm | -10.30 dB |

Date: 11.JUL.2019 09:13:28

## 5825MHz with SISO

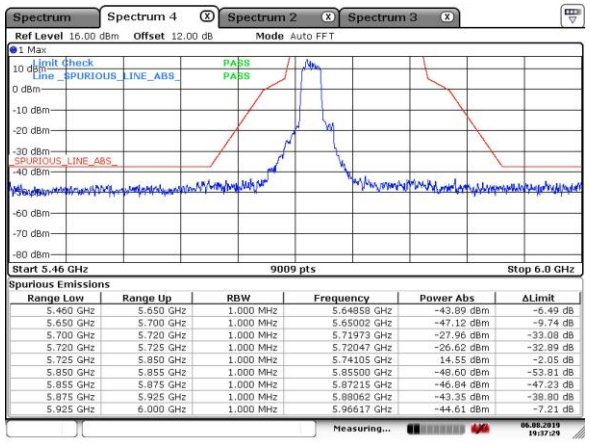



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 5.460 GHz | 5.650 GHz | 1.000 MHz | 5.59163 GHz | -41.67 dBm | -10.27 dB |
| 5.650 GHz | 5.700 GHz | 1.000 MHz | 5.65062 GHz | -44.01 dBm | -13.07 dB |
| 5.700 GHz | 5.720 GHz | 1.000 MHz | 5.70159 GHz | -43.87 dBm | -49.92 dB |
| 5.720 GHz | 5.725 GHz | 1.000 MHz | 5.72000 GHz | -43.98 dBm | -55.19 dB |
| 5.725 GHz | 5.850 GHz | 1.000 MHz | 5.82596 GHz | 15.04 dBm | -7.56 dB |
| 5.850 GHz | 5.855 GHz | 1.000 MHz | 5.85500 GHz | -30.60 dBm | -41.80 dB |
| 5.855 GHz | 5.875 GHz | 1.000 MHz | 5.85501 GHz | -31.41 dBm | -42.61 dB |
| 5.875 GHz | 5.925 GHz | 1.000 MHz | 5.92498 GHz | -42.08 dBm | -10.70 dB |
| 5.925 GHz | 6.000 GHz | 1.000 MHz | 5.93028 GHz | -41.28 dBm | -9.88 dB |

Date: 11.JUL.2019 09:16:41

## 5745MHz with CDD

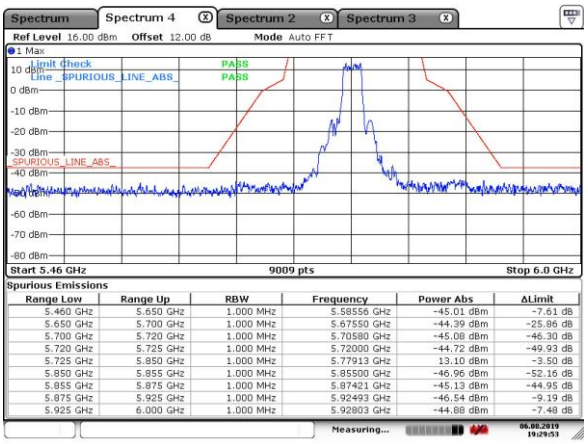



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 5.460 GHz | 5.650 GHz | 1.000 MHz | 5.64858 GHz | -43.89 dBm | -6.49 dB |
| 5.650 GHz | 5.700 GHz | 1.000 MHz | 5.65002 GHz | -47.12 dBm | -9.74 dB |
| 5.700 GHz | 5.720 GHz | 1.000 MHz | 5.71973 GHz | -27.96 dBm | -33.08 dB |
| 5.720 GHz | 5.725 GHz | 1.000 MHz | 5.72047 GHz | -26.62 dBm | -32.89 dB |
| 5.725 GHz | 5.850 GHz | 1.000 MHz | 5.74105 GHz | 14.55 dBm | -2.05 dB |
| 5.850 GHz | 5.855 GHz | 1.000 MHz | 5.85500 GHz | -48.60 dBm | -53.81 dB |
| 5.855 GHz | 5.875 GHz | 1.000 MHz | 5.87215 GHz | -46.84 dBm | -47.23 dB |
| 5.875 GHz | 5.925 GHz | 1.000 MHz | 5.88062 GHz | -43.35 dBm | -38.80 dB |
| 5.925 GHz | 6.000 GHz | 1.000 MHz | 5.96617 GHz | -44.61 dBm | -7.21 dB |

Date: 6.AUG.2019 19:37:29

## 5785MHz with CDD

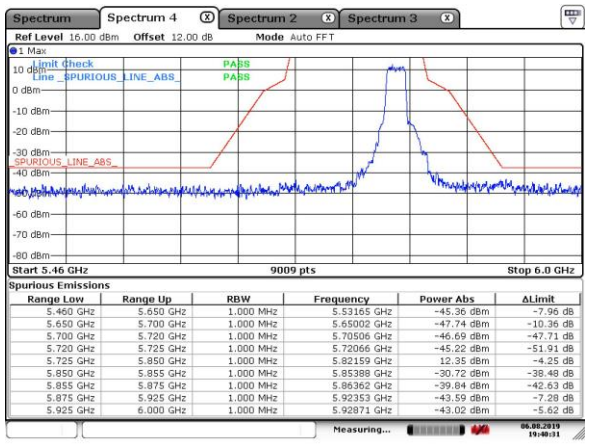



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 5.460 GHz | 5.650 GHz | 1.000 MHz | 5.58556 GHz | -45.01 dBm | -7.61 dB |
| 5.650 GHz | 5.700 GHz | 1.000 MHz | 5.67550 GHz | -44.39 dBm | -25.86 dB |
| 5.700 GHz | 5.720 GHz | 1.000 MHz | 5.70580 GHz | -45.08 dBm | -46.30 dB |
| 5.720 GHz | 5.725 GHz | 1.000 MHz | 5.72000 GHz | -44.72 dBm | -49.93 dB |
| 5.725 GHz | 5.850 GHz | 1.000 MHz | 5.77913 GHz | 13.10 dBm | -3.50 dB |
| 5.850 GHz | 5.855 GHz | 1.000 MHz | 5.85500 GHz | -46.96 dBm | -52.16 dB |
| 5.855 GHz | 5.875 GHz | 1.000 MHz | 5.87421 GHz | -45.13 dBm | -44.95 dB |
| 5.875 GHz | 5.925 GHz | 1.000 MHz | 5.92493 GHz | -46.54 dBm | -9.19 dB |
| 5.925 GHz | 6.000 GHz | 1.000 MHz | 5.92803 GHz | -44.88 dBm | -7.48 dB |

Date: 6.AUG.2019 19:29:53

## 5825MHz with CDD

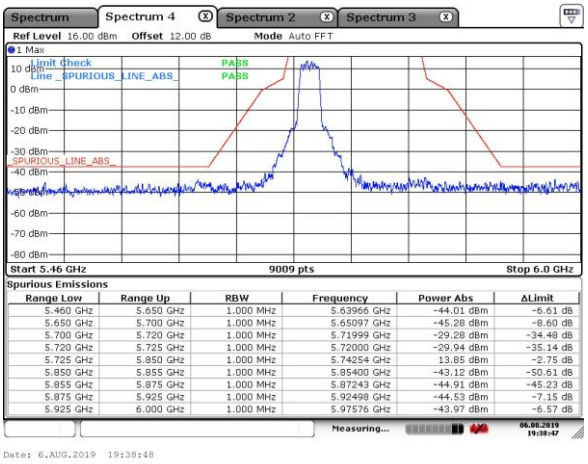



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 5.460 GHz | 5.650 GHz | 1.000 MHz | 5.53165 GHz | -45.36 dBm | -7.96 dB |
| 5.650 GHz | 5.700 GHz | 1.000 MHz | 5.65002 GHz | -47.74 dBm | -10.36 dB |
| 5.700 GHz | 5.720 GHz | 1.000 MHz | 5.70506 GHz | -46.69 dBm | -47.71 dB |
| 5.720 GHz | 5.725 GHz | 1.000 MHz | 5.72066 GHz | -45.22 dBm | -51.91 dB |
| 5.725 GHz | 5.850 GHz | 1.000 MHz | 5.82159 GHz | 12.35 dBm | -4.25 dB |
| 5.850 GHz | 5.855 GHz | 1.000 MHz | 5.85388 GHz | -30.72 dBm | -38.48 dB |
| 5.855 GHz | 5.875 GHz | 1.000 MHz | 5.86362 GHz | -39.84 dBm | -42.63 dB |
| 5.875 GHz | 5.925 GHz | 1.000 MHz | 5.92353 GHz | -43.59 dBm | -7.28 dB |
| 5.925 GHz | 6.000 GHz | 1.000 MHz | 5.92871 GHz | -43.02 dBm | -5.62 dB |

Date: 6.AUG.2019 19:40:31

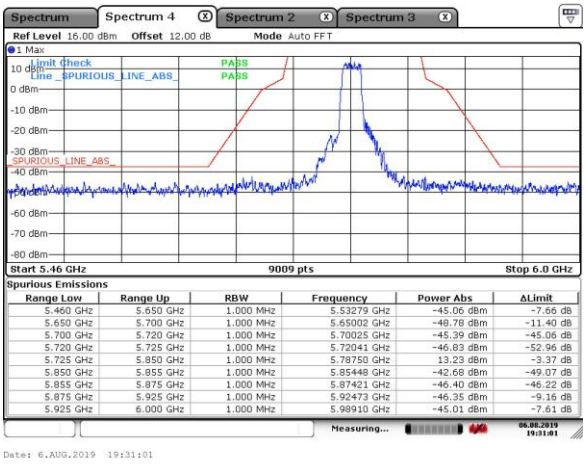
## 5745MHz with Beamforming




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 5.460 GHz | 5.650 GHz | 1.000 MHz | 5.63966 GHz | -44.01 dBm | -6.61 dB |
| 5.650 GHz | 5.700 GHz | 1.000 MHz | 5.65097 GHz | -45.28 dBm | -8.60 dB |
| 5.700 GHz | 5.720 GHz | 1.000 MHz | 5.71999 GHz | -29.28 dBm | -34.48 dB |
| 5.720 GHz | 5.725 GHz | 1.000 MHz | 5.72000 GHz | -29.94 dBm | -35.14 dB |
| 5.725 GHz | 5.850 GHz | 1.000 MHz | 5.74254 GHz | 13.85 dBm | -2.75 dB |
| 5.850 GHz | 5.855 GHz | 1.000 MHz | 5.85400 GHz | -43.12 dBm | -50.61 dB |
| 5.855 GHz | 5.875 GHz | 1.000 MHz | 5.87243 GHz | -44.91 dBm | -45.23 dB |
| 5.875 GHz | 5.925 GHz | 1.000 MHz | 5.92498 GHz | -44.53 dBm | -7.15 dB |
| 5.925 GHz | 6.000 GHz | 1.000 MHz | 5.97576 GHz | -43.97 dBm | -6.57 dB |

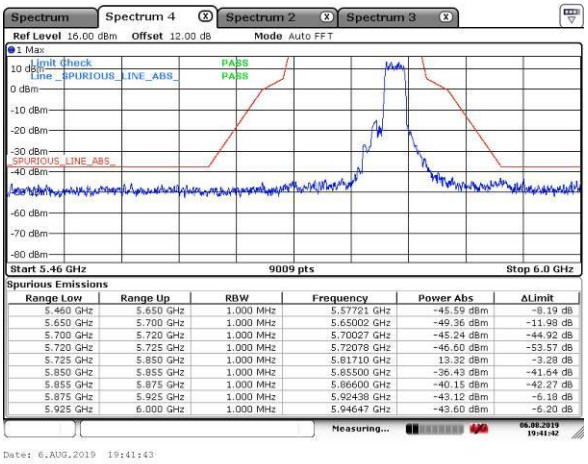
## 5785MHz with Beamforming




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 5.460 GHz | 5.650 GHz | 1.000 MHz | 5.53279 GHz | -45.06 dBm | -7.66 dB |
| 5.650 GHz | 5.700 GHz | 1.000 MHz | 5.65002 GHz | -48.78 dBm | -11.40 dB |
| 5.700 GHz | 5.720 GHz | 1.000 MHz | 5.70025 GHz | -45.39 dBm | -45.06 dB |
| 5.720 GHz | 5.725 GHz | 1.000 MHz | 5.72041 GHz | -46.83 dBm | -52.96 dB |
| 5.725 GHz | 5.850 GHz | 1.000 MHz | 5.78750 GHz | 13.23 dBm | -3.37 dB |
| 5.850 GHz | 5.855 GHz | 1.000 MHz | 5.85448 GHz | -42.68 dBm | -49.07 dB |
| 5.855 GHz | 5.875 GHz | 1.000 MHz | 5.87421 GHz | -46.40 dBm | -46.22 dB |
| 5.875 GHz | 5.925 GHz | 1.000 MHz | 5.92473 GHz | -46.35 dBm | -9.16 dB |
| 5.925 GHz | 6.000 GHz | 1.000 MHz | 5.98910 GHz | -45.01 dBm | -7.61 dB |

## 5825MHz with Beamforming

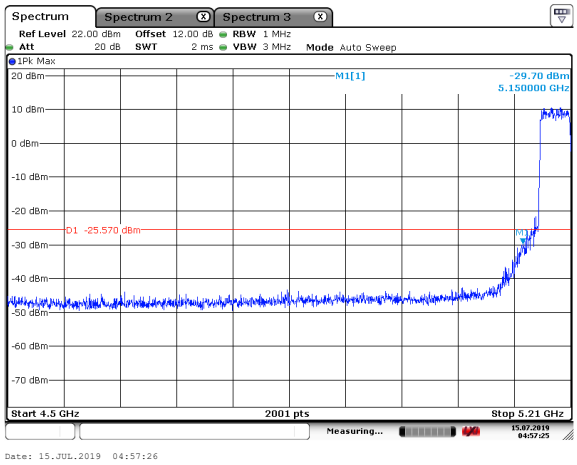



Spurious Emissions

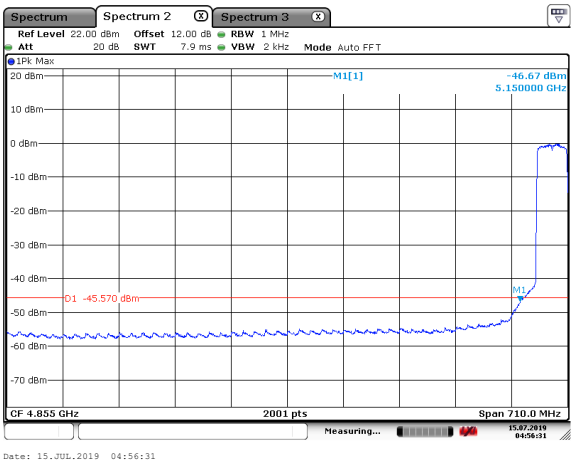
| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 5.460 GHz | 5.650 GHz | 1.000 MHz | 5.57721 GHz | -45.59 dBm | -8.19 dB |
| 5.650 GHz | 5.700 GHz | 1.000 MHz | 5.65002 GHz | -49.36 dBm | -11.98 dB |
| 5.700 GHz | 5.720 GHz | 1.000 MHz | 5.70027 GHz | -45.24 dBm | -44.92 dB |
| 5.720 GHz | 5.725 GHz | 1.000 MHz | 5.72078 GHz | -46.60 dBm | -53.57 dB |
| 5.725 GHz | 5.850 GHz | 1.000 MHz | 5.81710 GHz | 13.32 dBm | -3.28 dB |
| 5.850 GHz | 5.855 GHz | 1.000 MHz | 5.85500 GHz | -36.43 dBm | -41.64 dB |
| 5.855 GHz | 5.875 GHz | 1.000 MHz | 5.86600 GHz | -40.15 dBm | -42.27 dB |
| 5.875 GHz | 5.925 GHz | 1.000 MHz | 5.92438 GHz | -43.12 dBm | -6.18 dB |
| 5.925 GHz | 6.000 GHz | 1.000 MHz | 5.94647 GHz | -43.60 dBm | -6.20 dB |

## 802.11ax(40MHz)

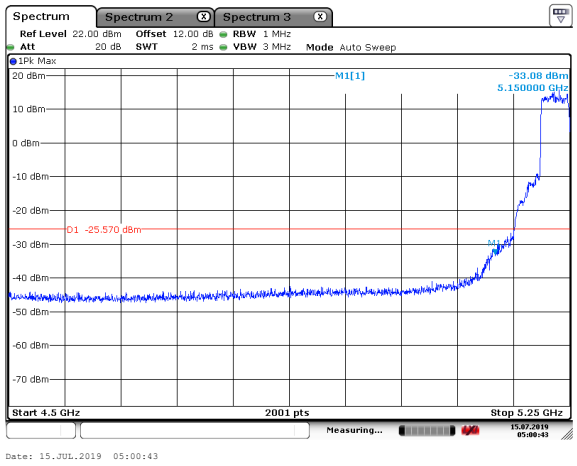
5190MHz with SISO



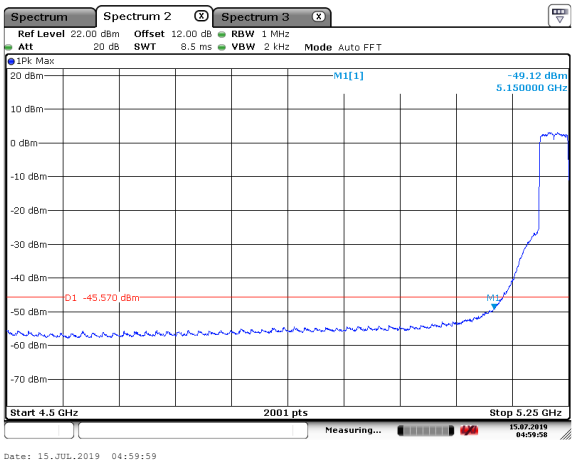

5190MHz with SISO



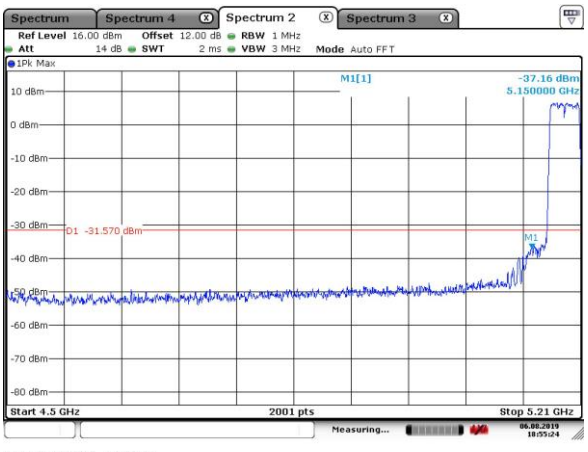

5230MHz with SISO



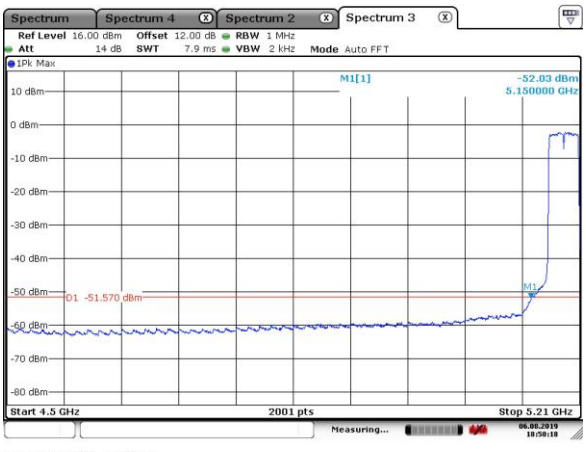

5230MHz with SISO



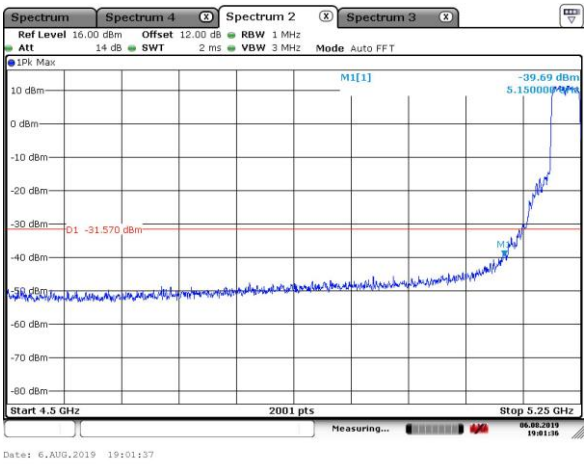

5190MHz with CDD



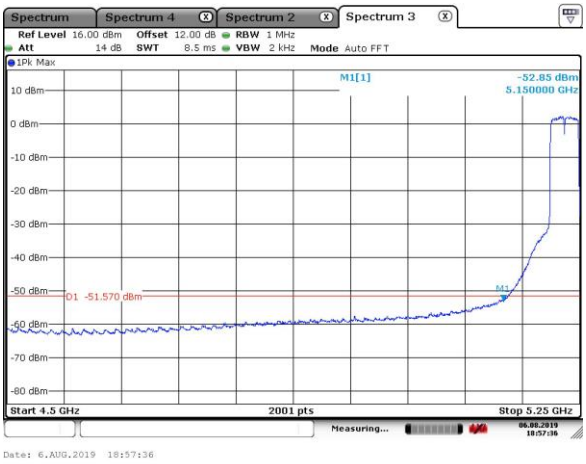

5190MHz with CDD



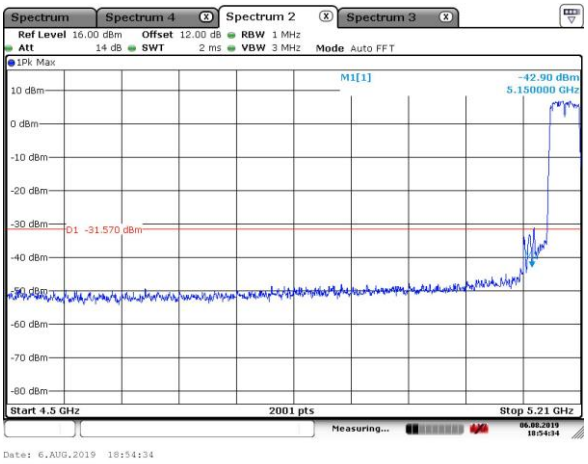
5230MHz with CDD



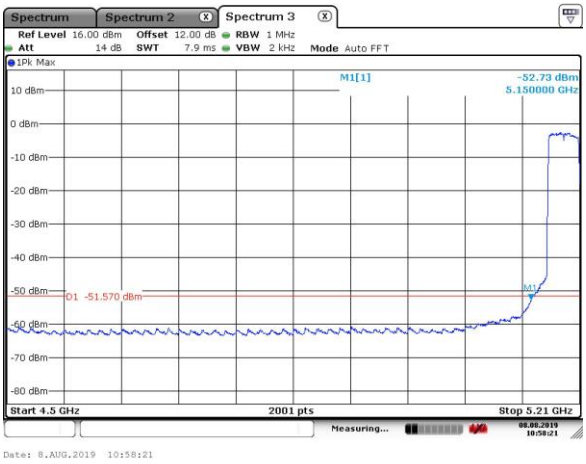

5230MHz with CDD



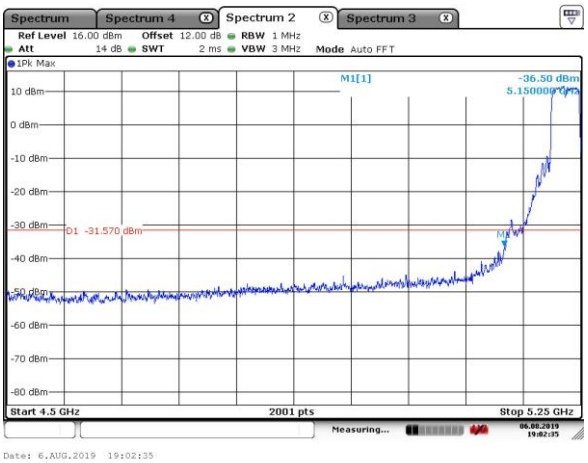

5190MHz with Beamforming



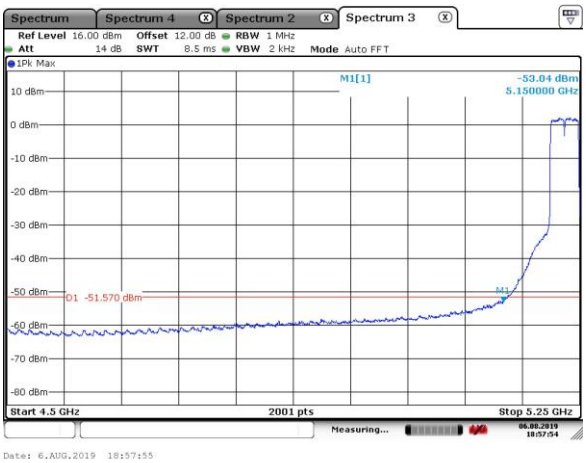

5190MHz with Beamforming



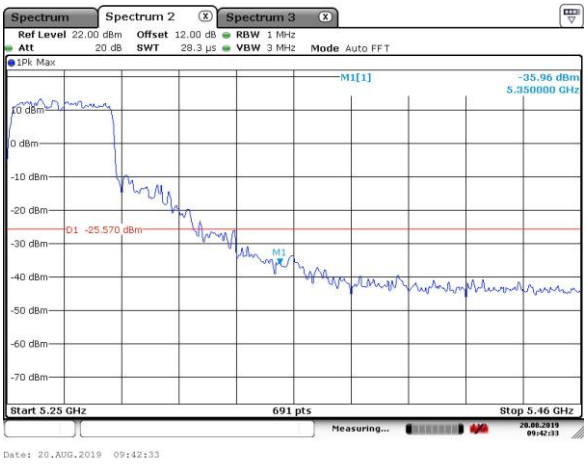

5230MHz with Beamforming



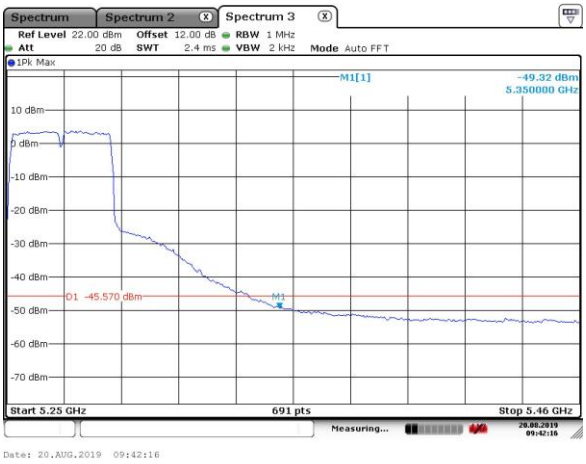

5230MHz with Beamforming



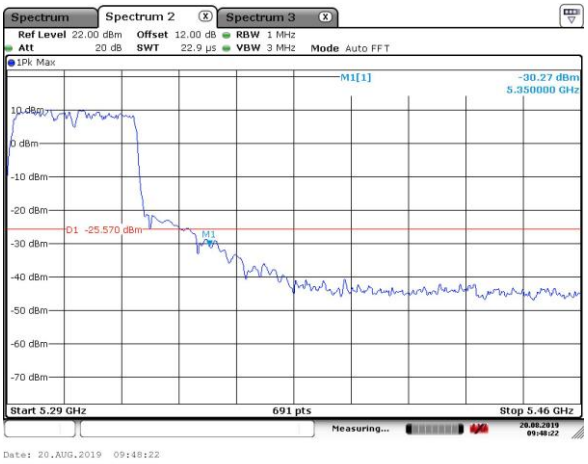
5270MHz with SISO



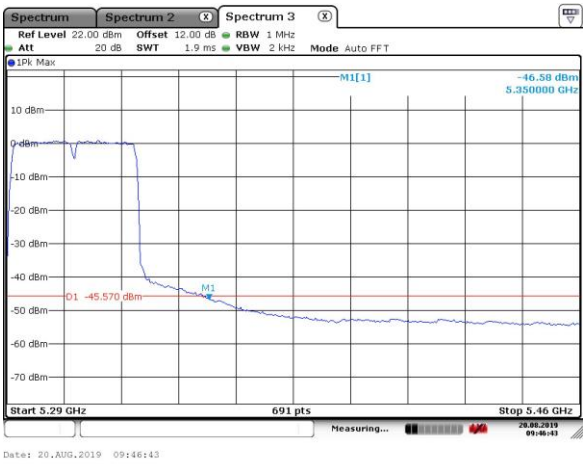

5270MHz with SISO



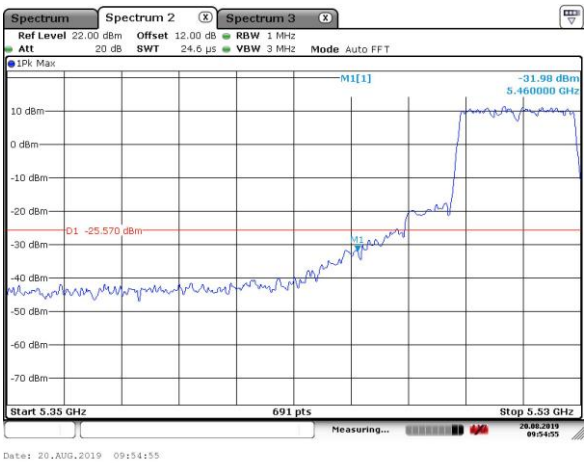

5310MHz with SISO



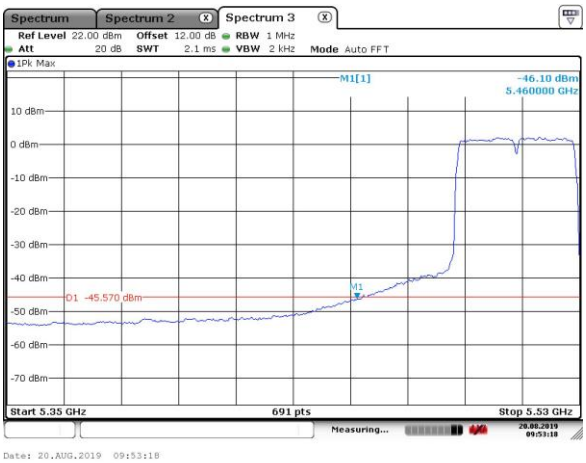

5310MHz with SISO



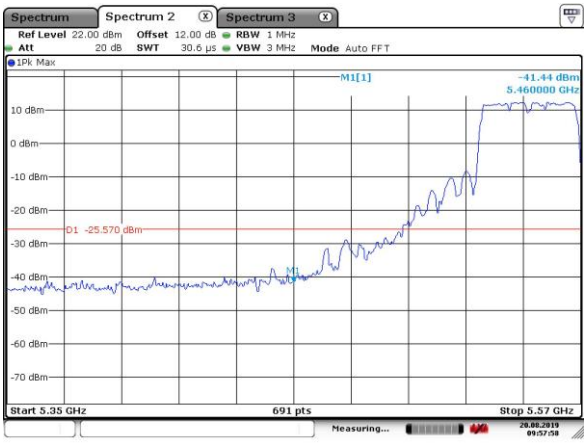

5510MHz with SISO



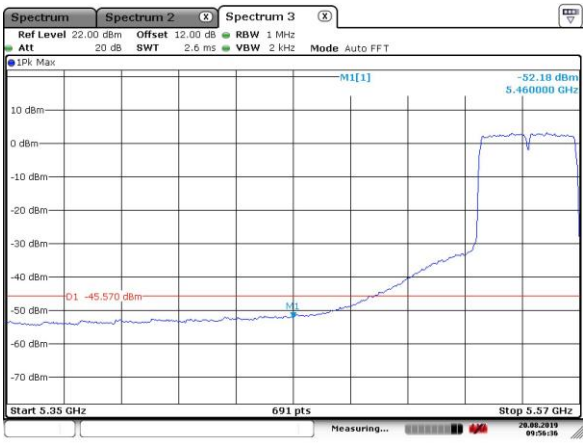

5510MHz with SISO



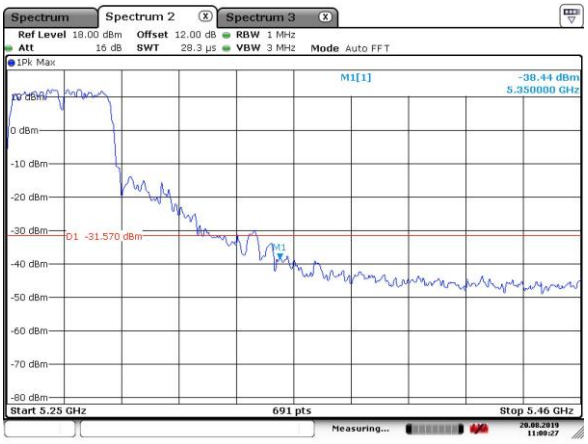
5550MHz with SISO



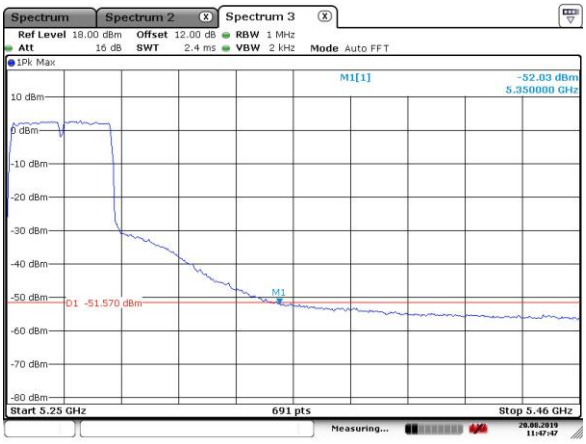

5550MHz with SISO



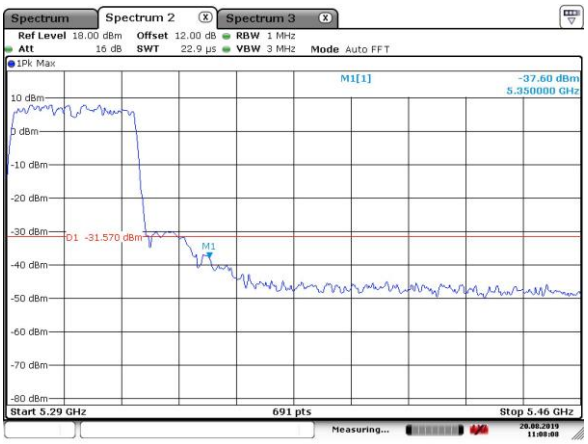

5270MHz with CDD



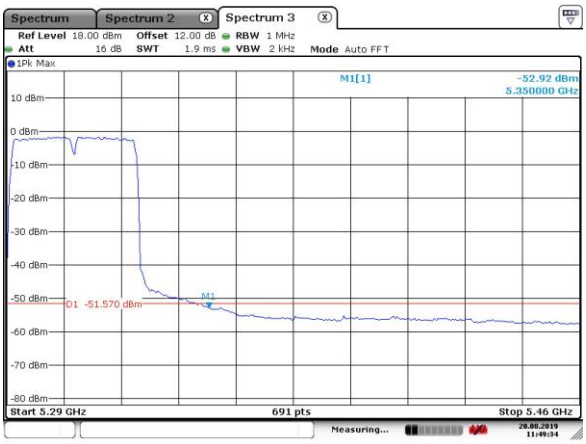

5270MHz with CDD



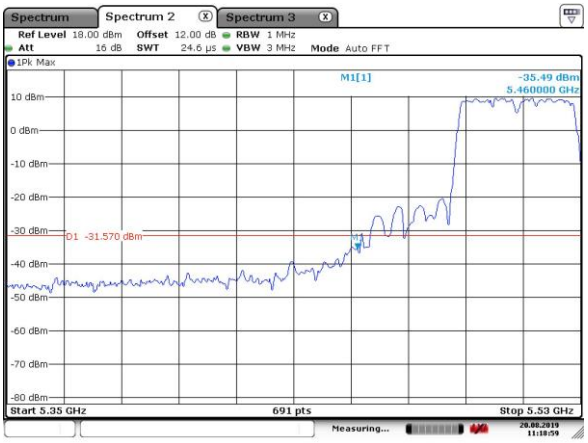

5310MHz with CDD



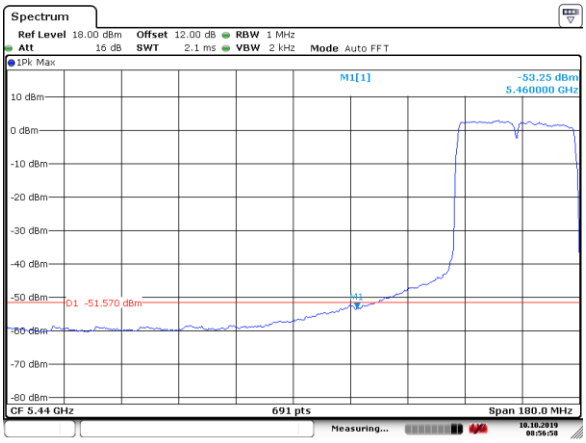

5310MHz with CDD



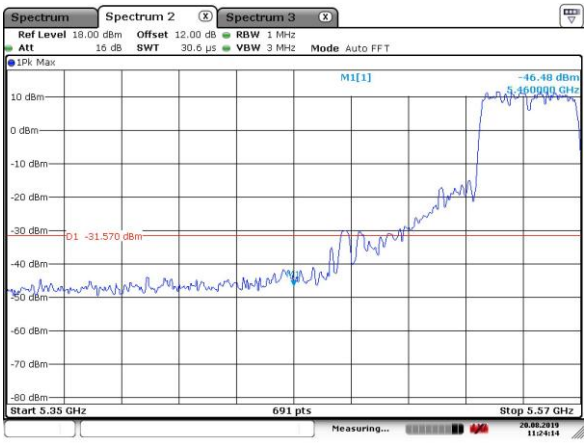
5510MHz with CDD



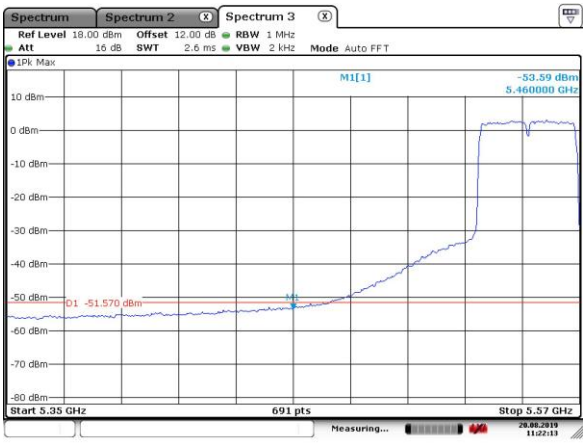

5510MHz with CDD



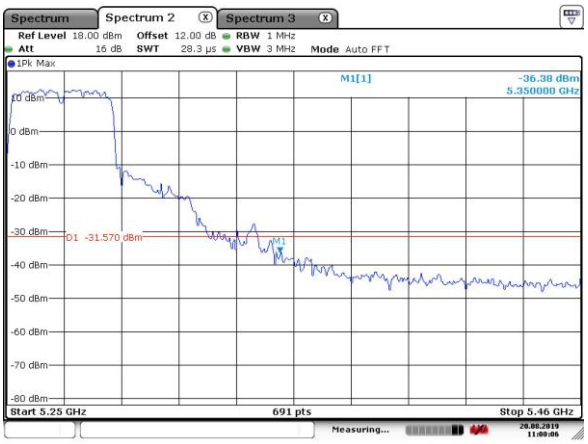

5550MHz with CDD



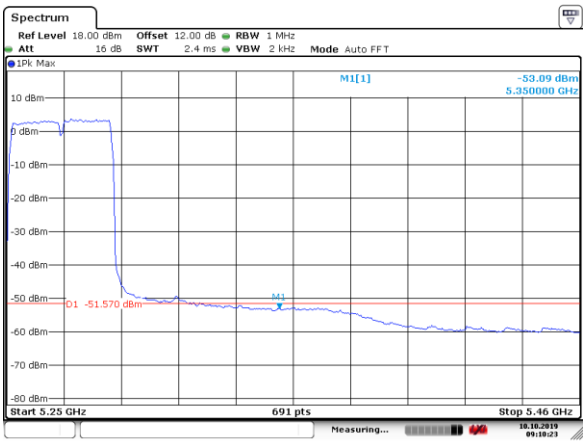

5550MHz with CDD



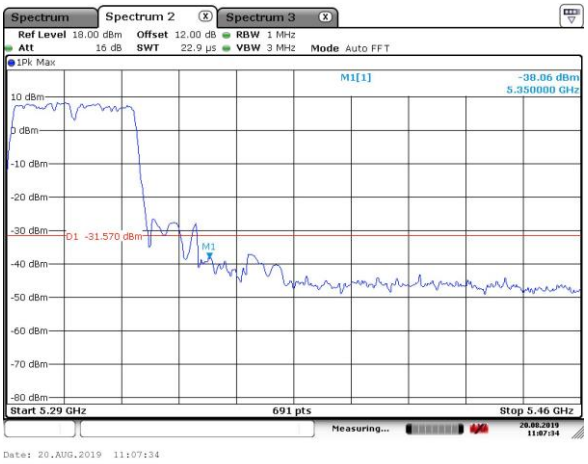

5270MHz with Beamforming



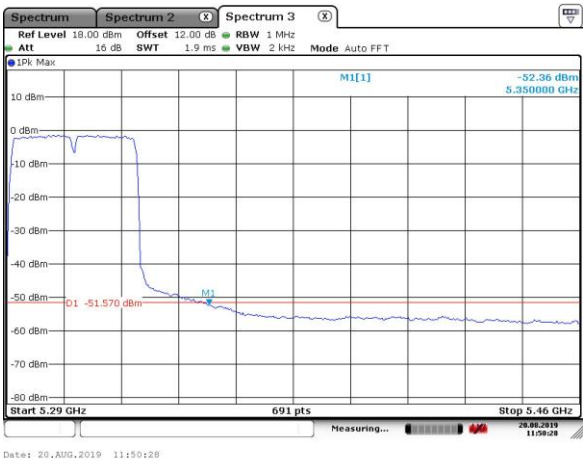

5270MHz with Beamforming



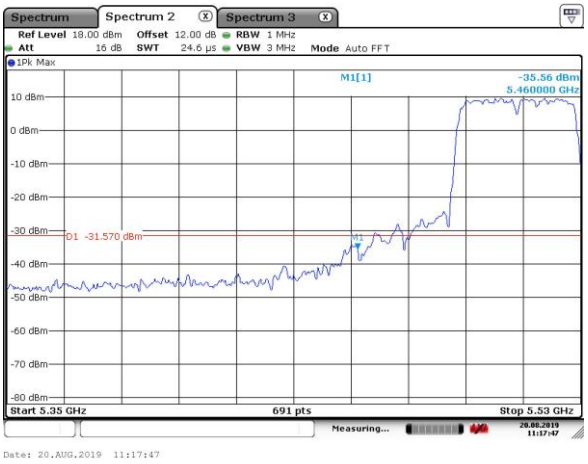
5310MHz with Beamforming



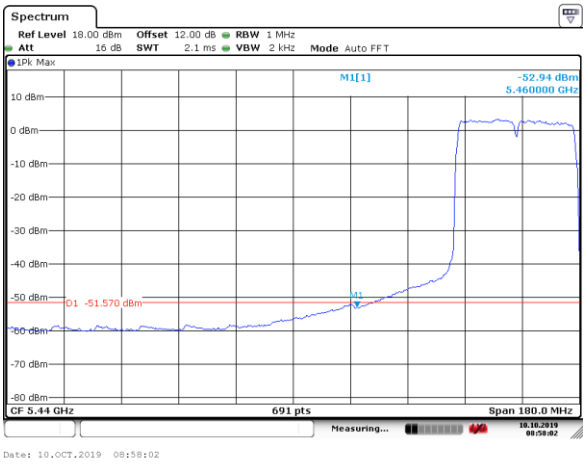

5310MHz with Beamforming



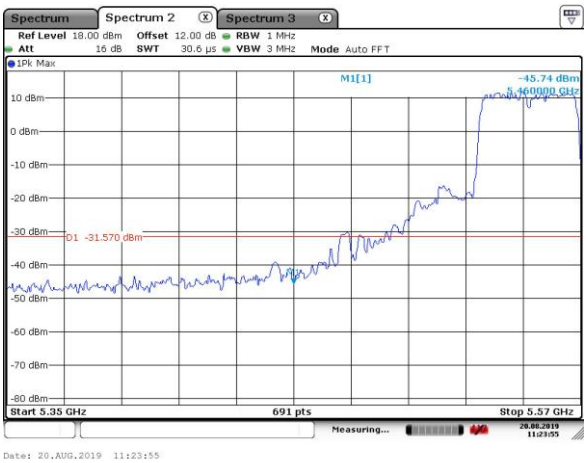

5510MHz with Beamforming



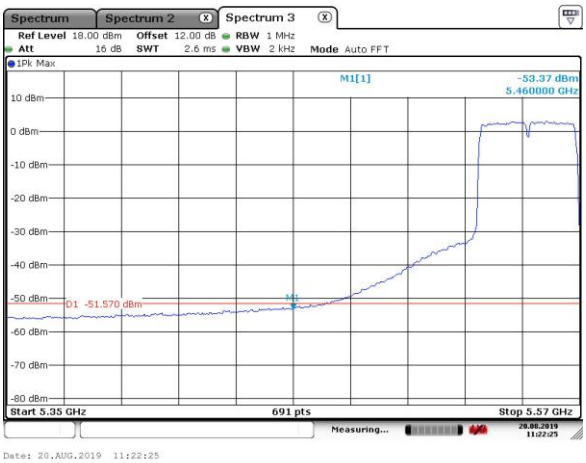

5510MHz with Beamforming



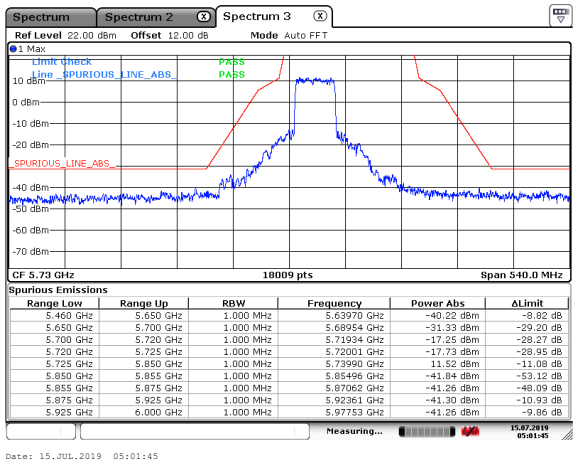

5550MHz with Beamforming




5550MHz with Beamforming



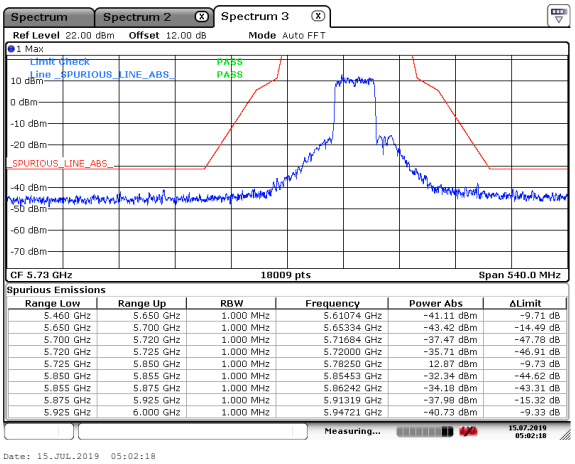
## 5755MHz with SISO




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 5.460 GHz | 5.650 GHz | 1.000 MHz | 5.63970 GHz | -40.22 dBm | -8.82 dB |
| 5.650 GHz | 5.700 GHz | 1.000 MHz | 5.68954 GHz | -31.33 dBm | -29.20 dB |
| 5.700 GHz | 5.720 GHz | 1.000 MHz | 5.71934 GHz | -17.25 dBm | -28.27 dB |
| 5.720 GHz | 5.725 GHz | 1.000 MHz | 5.72001 GHz | -17.73 dBm | -28.95 dB |
| 5.725 GHz | 5.850 GHz | 1.000 MHz | 5.73990 GHz | 11.52 dBm | -11.08 dB |
| 5.850 GHz | 5.855 GHz | 1.000 MHz | 5.85496 GHz | -41.84 dBm | -53.12 dB |
| 5.855 GHz | 5.875 GHz | 1.000 MHz | 5.87062 GHz | -41.26 dBm | -48.09 dB |
| 5.875 GHz | 5.925 GHz | 1.000 MHz | 5.92361 GHz | -41.30 dBm | -10.93 dB |
| 5.925 GHz | 6.000 GHz | 1.000 MHz | 5.97753 GHz | -41.26 dBm | -9.86 dB |

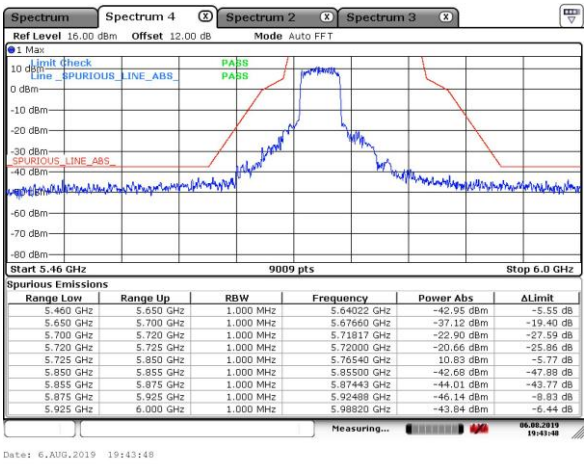
## 5795MHz with SISO




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 5.460 GHz | 5.650 GHz | 1.000 MHz | 5.61074 GHz | -41.11 dBm | -9.71 dB |
| 5.650 GHz | 5.700 GHz | 1.000 MHz | 5.65334 GHz | -43.42 dBm | -14.49 dB |
| 5.700 GHz | 5.720 GHz | 1.000 MHz | 5.71684 GHz | -37.47 dBm | -47.78 dB |
| 5.720 GHz | 5.725 GHz | 1.000 MHz | 5.72000 GHz | -35.71 dBm | -46.91 dB |
| 5.725 GHz | 5.850 GHz | 1.000 MHz | 5.78250 GHz | 12.87 dBm | -9.73 dB |
| 5.850 GHz | 5.855 GHz | 1.000 MHz | 5.85453 GHz | -32.34 dBm | -44.62 dB |
| 5.855 GHz | 5.875 GHz | 1.000 MHz | 5.86242 GHz | -34.18 dBm | -43.31 dB |
| 5.875 GHz | 5.925 GHz | 1.000 MHz | 5.91319 GHz | -37.98 dBm | -15.32 dB |
| 5.925 GHz | 6.000 GHz | 1.000 MHz | 5.94721 GHz | -40.73 dBm | -9.33 dB |

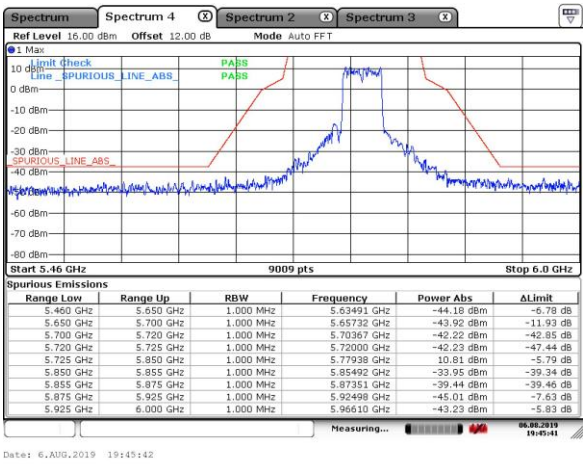
## 5755MHz with CDD




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 5.460 GHz | 5.650 GHz | 1.000 MHz | 5.64022 GHz | -42.95 dBm | -5.55 dB |
| 5.650 GHz | 5.700 GHz | 1.000 MHz | 5.67660 GHz | -37.12 dBm | -19.40 dB |
| 5.700 GHz | 5.720 GHz | 1.000 MHz | 5.71817 GHz | -22.90 dBm | -27.59 dB |
| 5.720 GHz | 5.725 GHz | 1.000 MHz | 5.72000 GHz | -20.66 dBm | -25.86 dB |
| 5.725 GHz | 5.850 GHz | 1.000 MHz | 5.76540 GHz | 10.83 dBm | -5.77 dB |
| 5.850 GHz | 5.855 GHz | 1.000 MHz | 5.85500 GHz | -42.68 dBm | -47.88 dB |
| 5.855 GHz | 5.875 GHz | 1.000 MHz | 5.87443 GHz | -44.01 dBm | -43.77 dB |
| 5.875 GHz | 5.925 GHz | 1.000 MHz | 5.92488 GHz | -46.14 dBm | -8.83 dB |
| 5.925 GHz | 6.000 GHz | 1.000 MHz | 5.98820 GHz | -43.84 dBm | -6.44 dB |

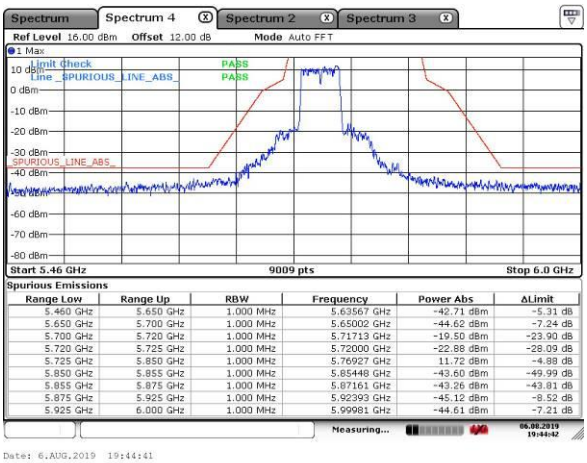
## 5795MHz with CDD




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 5.460 GHz | 5.650 GHz | 1.000 MHz | 5.63491 GHz | -44.18 dBm | -6.78 dB |
| 5.650 GHz | 5.700 GHz | 1.000 MHz | 5.65732 GHz | -43.92 dBm | -11.93 dB |
| 5.700 GHz | 5.720 GHz | 1.000 MHz | 5.70367 GHz | -42.22 dBm | -42.85 dB |
| 5.720 GHz | 5.725 GHz | 1.000 MHz | 5.72000 GHz | -42.23 dBm | -47.44 dB |
| 5.725 GHz | 5.850 GHz | 1.000 MHz | 5.77938 GHz | 10.81 dBm | -5.79 dB |
| 5.850 GHz | 5.855 GHz | 1.000 MHz | 5.85492 GHz | -33.95 dBm | -39.34 dB |
| 5.855 GHz | 5.875 GHz | 1.000 MHz | 5.87351 GHz | -39.44 dBm | -39.46 dB |
| 5.875 GHz | 5.925 GHz | 1.000 MHz | 5.92498 GHz | -45.01 dBm | -7.63 dB |
| 5.925 GHz | 6.000 GHz | 1.000 MHz | 5.96610 GHz | -43.23 dBm | -5.83 dB |

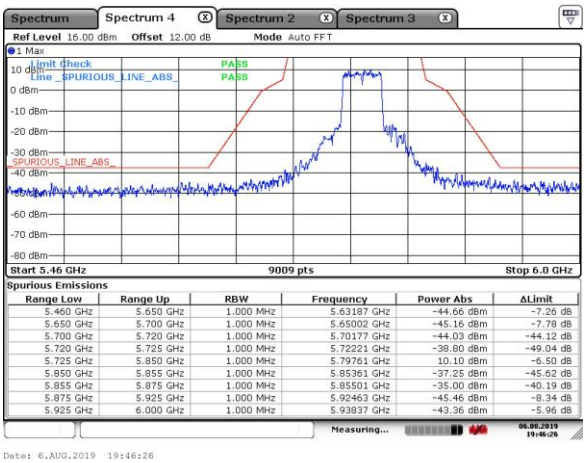
## 5755MHz with Beamforming




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 5.460 GHz | 5.650 GHz | 1.000 MHz | 5.63567 GHz | -42.71 dBm | -5.31 dB |
| 5.650 GHz | 5.700 GHz | 1.000 MHz | 5.65002 GHz | -44.62 dBm | -7.24 dB |
| 5.700 GHz | 5.720 GHz | 1.000 MHz | 5.71713 GHz | -19.50 dBm | -23.90 dB |
| 5.720 GHz | 5.725 GHz | 1.000 MHz | 5.72000 GHz | -22.88 dBm | -28.09 dB |
| 5.725 GHz | 5.850 GHz | 1.000 MHz | 5.76927 GHz | 11.72 dBm | -4.88 dB |
| 5.850 GHz | 5.855 GHz | 1.000 MHz | 5.85448 GHz | -43.60 dBm | -49.99 dB |
| 5.855 GHz | 5.875 GHz | 1.000 MHz | 5.87161 GHz | -43.26 dBm | -43.81 dB |
| 5.875 GHz | 5.925 GHz | 1.000 MHz | 5.92393 GHz | -45.12 dBm | -8.52 dB |
| 5.925 GHz | 6.000 GHz | 1.000 MHz | 5.99981 GHz | -44.61 dBm | -7.21 dB |

## 5795MHz with Beamforming

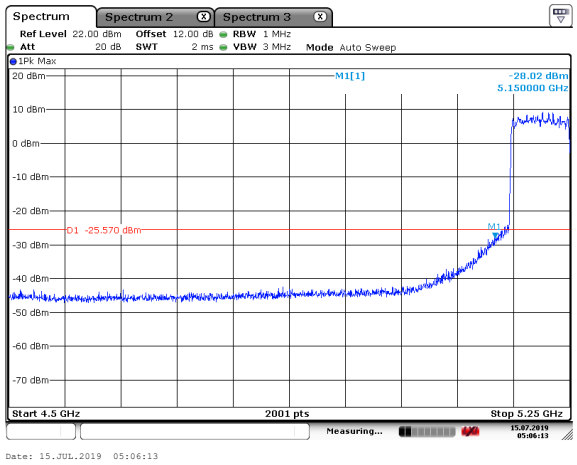



Spurious Emissions

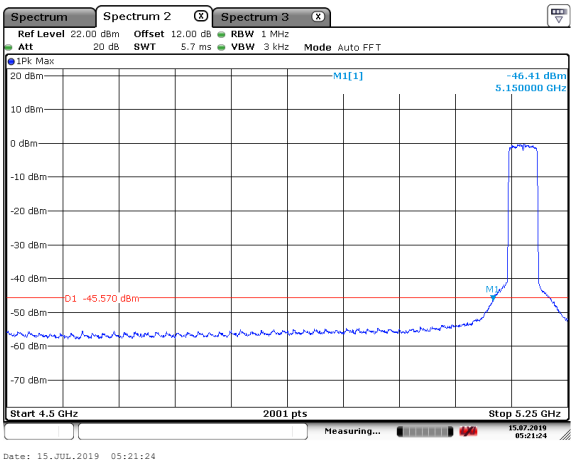
| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 5.460 GHz | 5.650 GHz | 1.000 MHz | 5.63187 GHz | -44.66 dBm | -7.25 dB |
| 5.650 GHz | 5.700 GHz | 1.000 MHz | 5.65002 GHz | -45.16 dBm | -7.78 dB |
| 5.700 GHz | 5.720 GHz | 1.000 MHz | 5.70177 GHz | -44.03 dBm | -44.12 dB |
| 5.720 GHz | 5.725 GHz | 1.000 MHz | 5.72221 GHz | -38.80 dBm | -49.04 dB |
| 5.725 GHz | 5.850 GHz | 1.000 MHz | 5.79761 GHz | 10.10 dBm | -6.50 dB |
| 5.850 GHz | 5.855 GHz | 1.000 MHz | 5.85361 GHz | -37.25 dBm | -45.62 dB |
| 5.855 GHz | 5.875 GHz | 1.000 MHz | 5.85501 GHz | -35.00 dBm | -40.19 dB |
| 5.875 GHz | 5.925 GHz | 1.000 MHz | 5.92463 GHz | -45.46 dBm | -8.34 dB |
| 5.925 GHz | 6.000 GHz | 1.000 MHz | 5.93837 GHz | -43.36 dBm | -5.96 dB |

## 802.11ax(80MHz)

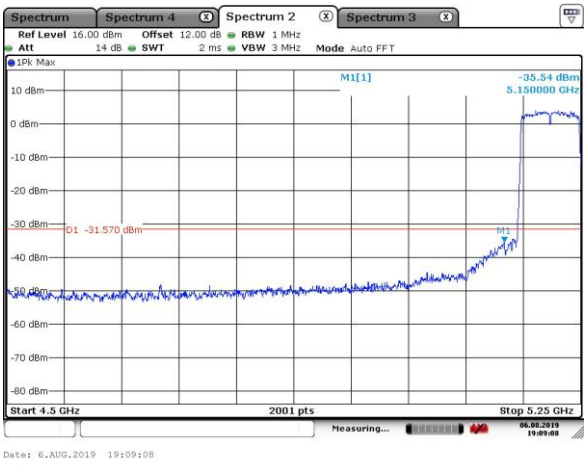
5210MHz with SISO



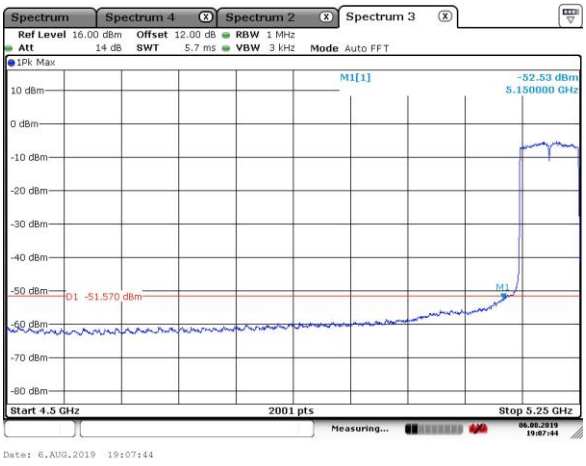

5210MHz with SISO



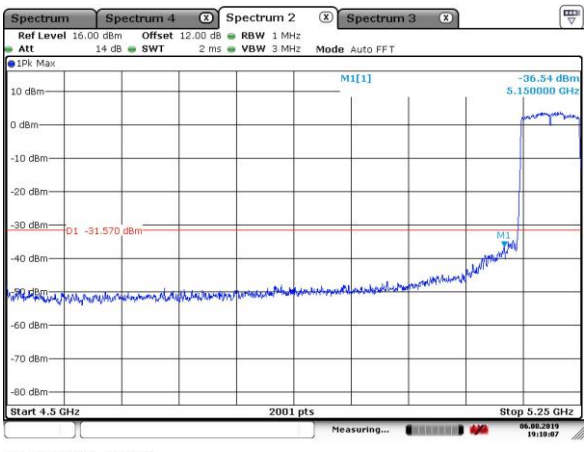

5210MHz with CDD



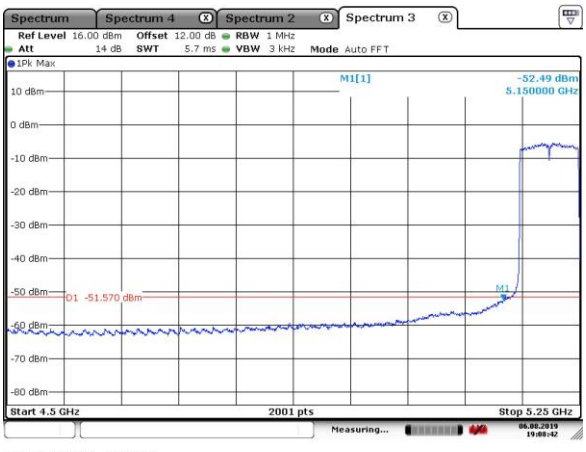

5210MHz with CDD



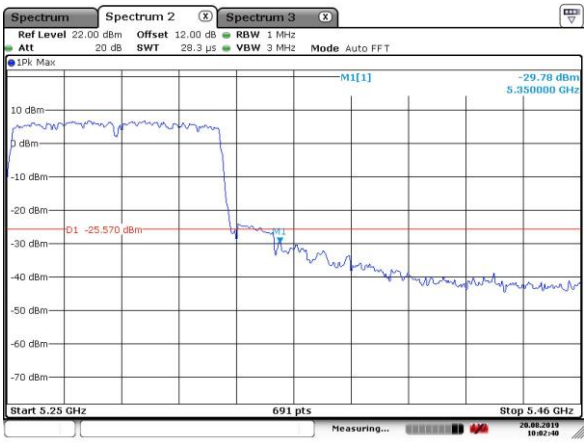

5210MHz with Beamforming



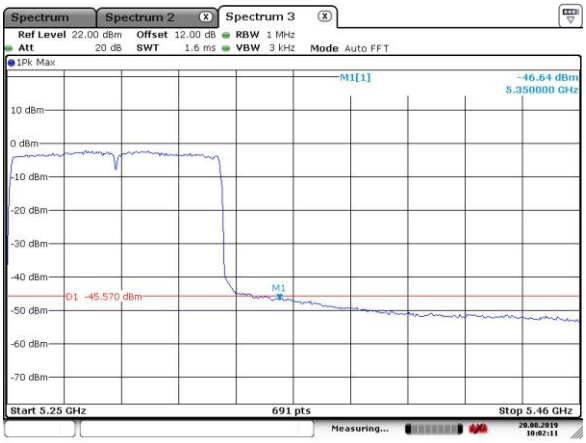

5210MHz with Beamforming



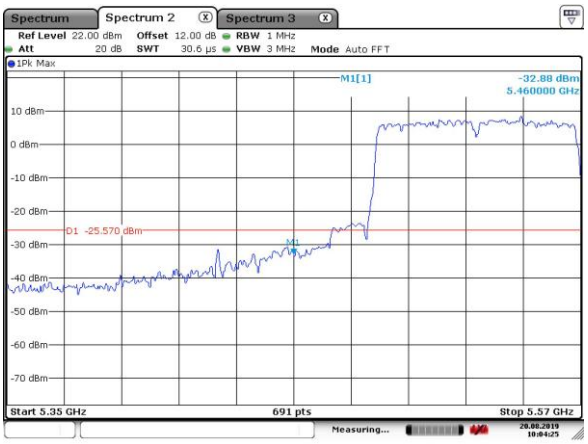
5290MHz with SISO



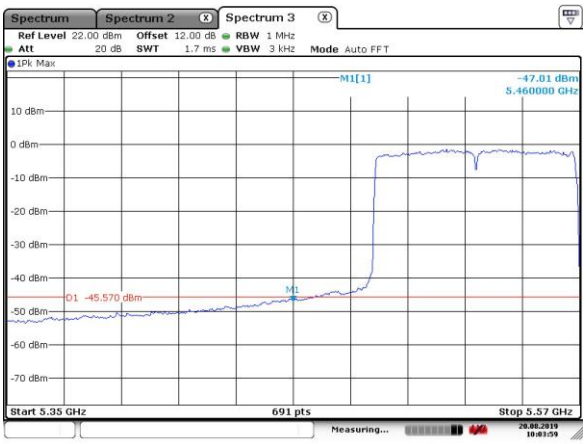

5290MHz with SISO



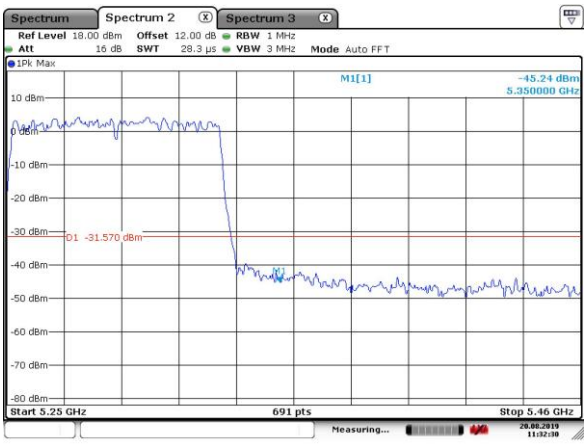

5530MHz with SISO



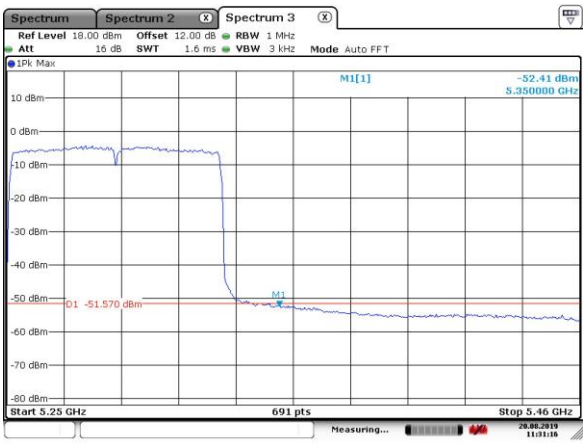

5530MHz with SISO



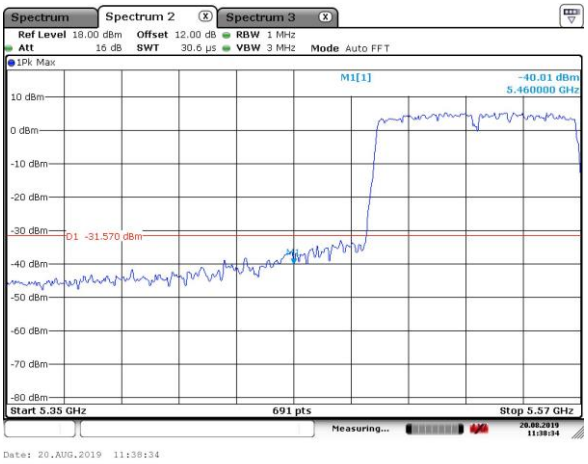

5290MHz with CDD



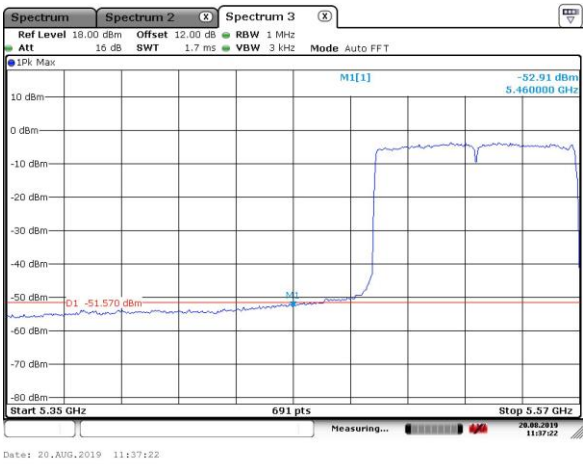

5290MHz with CDD



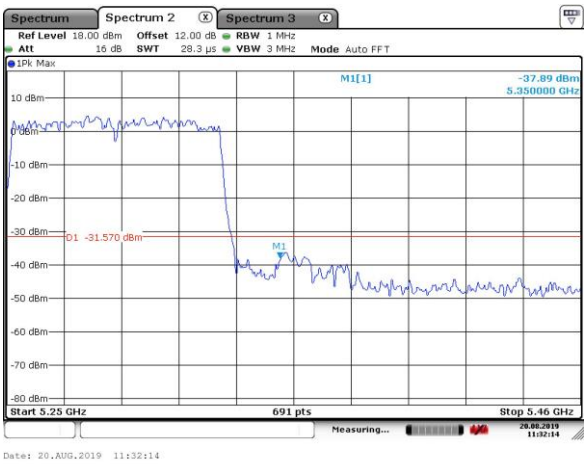
5530MHz with CDD



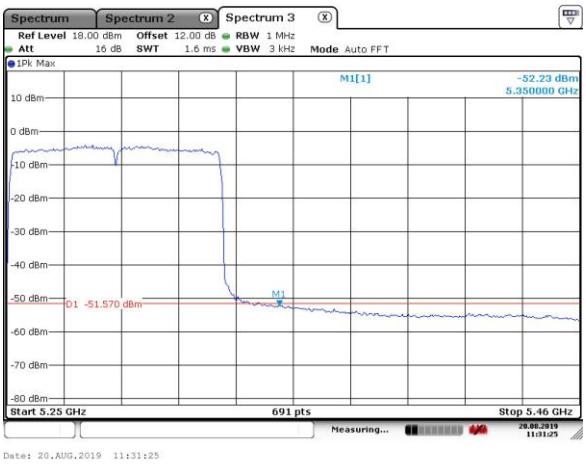

5530MHz with CDD



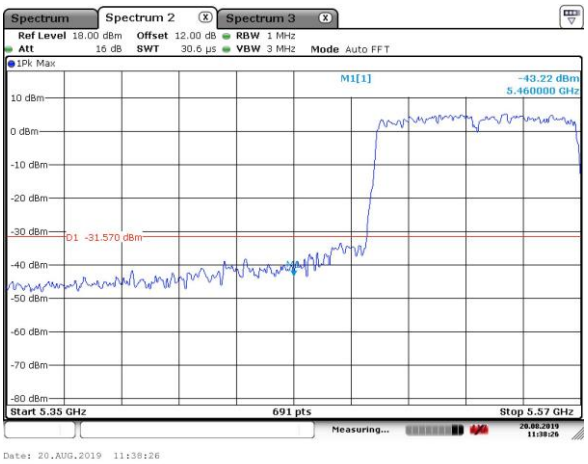

5290MHz with Beamforming



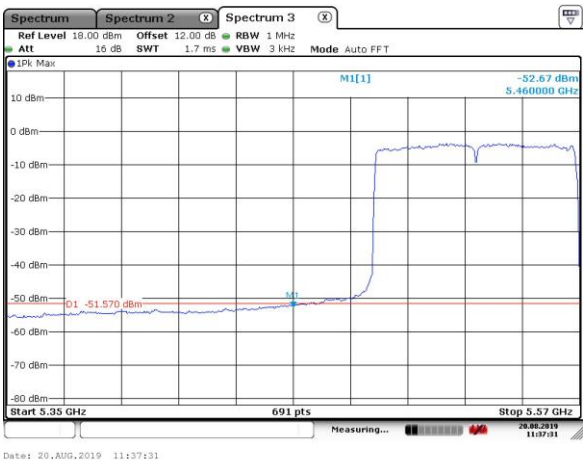

5290MHz with Beamforming



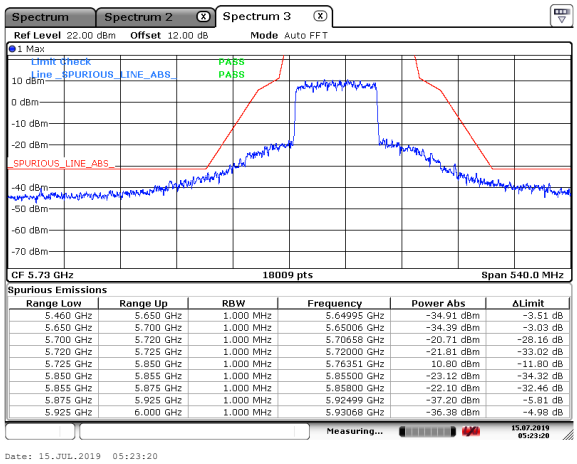

5530MHz with Beamforming



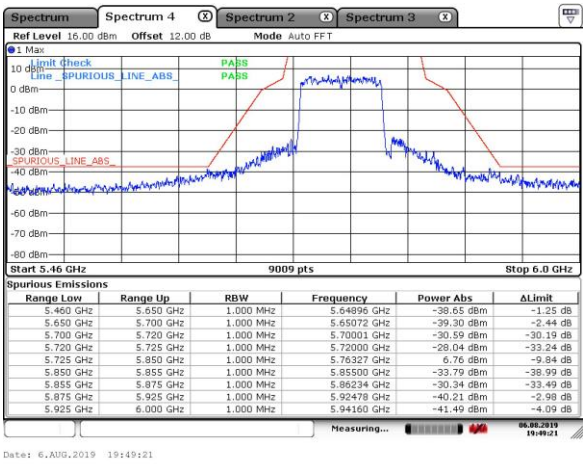

5530MHz with Beamforming



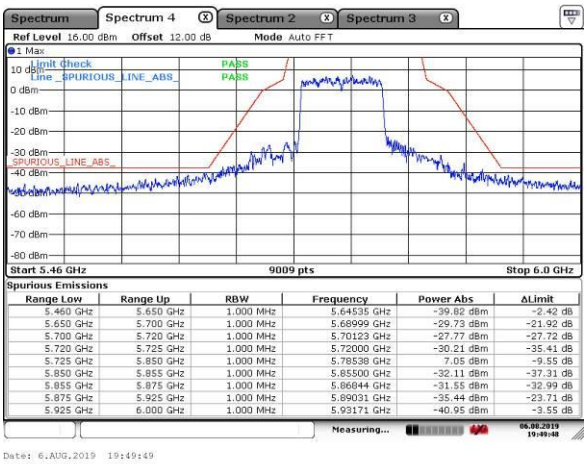
## 5775MHz with SISO




## 5775MHz with CDD




## 5775MHz with Beamforming

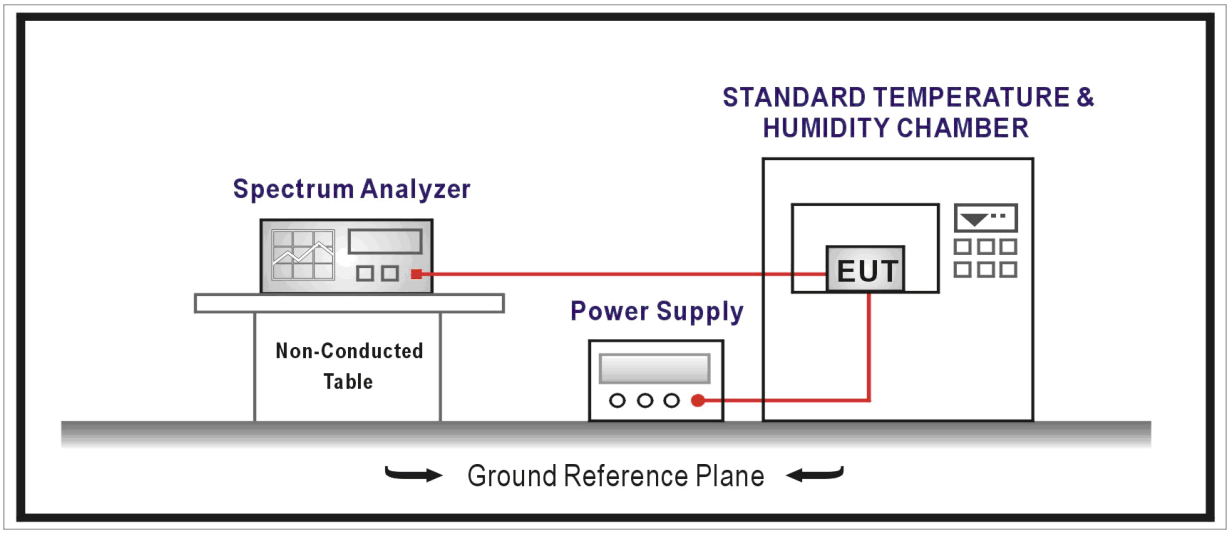


# 10. Frequency Stability

## 10.1. Test Equipment

| Frequency Stability / TR-7 | | | | | |
|---|---|---|---|---|---|
| Instrument | Manufacturer | Type No. | Serial No. | Cal. Date | Cal. Due Date |
| Spectrum Analyzer | Agilent | N9010A | MY48030494 | 2021.07.11 | 2022.07.10 |
| EXA Spectrum Analyzer | Keysight | N9010A | MY55370495 | 2021.08.12 | 2022.08.11 |
| MXA Signal Anlyzer | Keysight | N9020A | MY56060147 | 2021.07.11 | 2022.07.10 |
| AC Power Supply | IDRC | CF-500TP | 979422 | N/A | N/A |
| DC Power Supply | IDRC | CD-035-020PR | 977272 | N/A | N/A |
| High and low temperature damp and heat test box | Gaoyu | ASTD-TH-P-1000R | N/A | 2021.09.17 | 2022.09.16 |
| Temperature/Humidity Meter | zhichen | ZC1-2 | TR7-TH | 2021.08.04 | 2022.08.03 |
| Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards. | | | | | |

## 10.2. Test Setup



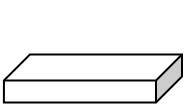
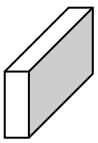
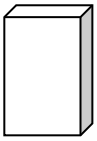
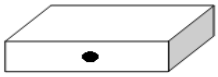
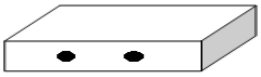
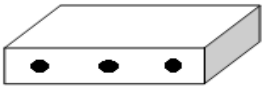
## 10.3. Limit

| Frequency Stability Limit | |
|---|---|
| UNII Devices | |
| ☒ | In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual. |
| IEEE Std. 802.11n-2009 | |
| ☒ | The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band and ± 25ppm maximum for the 2.4 GHz band. |

## 10.4. Test Procedure

| Frequency Stability Test Method | | | | |
|---|---|---|---|---|
| | References Rule | | Chapter | Description |
| ☒ | ANSI C63.10 | | 6.8 | Frequency stability tests |
| | ☒ | ANSI C63.10 | 6.8.1 | Frequency stability with respect to ambient temperature |
| | ☒ | ANSI C63.10 | 6.8.2 | Frequency stability when varying supply voltage |

## 10.5. EUT test Axis definition

<table>
<tr><td>Item</td><td colspan="5">Frequency Stability</td></tr>
<tr><td rowspan="4">Device Category</td><td>☒</td><td colspan="4">Indoor use</td></tr>
<tr><td>☐</td><td colspan="4">Outdoor use</td></tr>
<tr><td>☐</td><td colspan="4">Fix position use</td></tr>
<tr><td>☐</td><td colspan="4">Client use</td></tr>
<tr><td>Test mode</td><td colspan="5">Mode 1-9</td></tr>
<tr><td rowspan="15">Test method</td><td>☐</td><td colspan="4">Radiated</td></tr>
<tr><td rowspan="3"></td><td>X Axis</td><td>Y Axis</td><td colspan="2">Z Axis</td></tr>
<tr><td>  </td><td>  </td><td colspan="2">  </td></tr>
<tr><td>Worst Axis ☐</td><td>Worst Axis ☐</td><td colspan="2">Worst Axis ☐</td></tr>
<tr><td>☒</td><td colspan="4">Conducted</td></tr>
<tr><td>☒</td><td colspan="4">Chain 1</td></tr>
<tr><td></td><td colspan="4">  </td></tr>
<tr><td>☒</td><td>Chain 1</td><td colspan="3">Chain 2</td></tr>
<tr><td></td><td colspan="4">  </td></tr>
<tr><td>☐</td><td>Chain 1</td><td>Chain 2</td><td colspan="2">Chain 3</td></tr>
<tr><td></td><td colspan="4">  </td></tr>
<tr><td>☐</td><td>Chain 1</td><td>Chain 2</td><td>Chain 3</td><td>Chain 4</td></tr>
<tr><td></td><td colspan="4"> </td></tr>
</table>

## 10.6. Test Result

| | | | | | |
|---|---|---|---|---|---|
| Product Name | : | Wireless Access Point | Power | : | AC 120V/60Hz |
| Test Mode | : | Carrier Wave | Test Site | : | TR-7 |
| Test Date | : | 2019.08.05 | Test Engineer | : | Simon |

Frequency Stability under Temperature at 0min

| Temperature Interval (℃) | Test Frequency (MHz) | Deviation (Hz) | ppm | Limit |
|---|---|---|---|---|
| -30 | 5220.000 | 102 | 0.020 | ±20 |
| -20 | 5220.000 | -95 | -0.018 | ±20 |
| -10 | 5220.000 | -79 | -0.015 | ±20 |
| 0 | 5220.000 | 124 | 0.024 | ±20 |
| 10 | 5220.000 | 139 | 0.027 | ±20 |
| 20 | 5220.000 | 164 | 0.031 | ±20 |
| 30 | 5220.000 | 113 | 0.022 | ±20 |
| 40 | 5220.000 | -95 | -0.018 | ±20 |
| 50 | 5220.000 | -94 | -0.018 | ±20 |

Frequency Stability under Temperature at 2min

| Temperature Interval (℃) | Test Frequency (MHz) | Deviation (Hz) | ppm | Limit |
|---|---|---|---|---|
| -30 | 5220.000 | -119 | -0.023 | ±20 |
| -20 | 5220.000 | -146 | -0.028 | ±20 |
| -10 | 5220.000 | -86 | -0.016 | ±20 |
| 0 | 5220.000 | 81 | 0.016 | ±20 |
| 10 | 5220.000 | 146 | 0.028 | ±20 |
| 20 | 5220.000 | -104 | -0.020 | ±20 |
| 30 | 5220.000 | -160 | -0.031 | ±20 |
| 40 | 5220.000 | 97 | 0.019 | ±20 |
| 50 | 5220.000 | -143 | -0.027 | ±20 |

Frequency Stability under Temperature at 5min

| Temperature Interval (℃) | Test Frequency (MHz) | Deviation (Hz) | ppm | Limit |
|---|---|---|---|---|
| -30 | 5220.000 | -129 | -0.025 | ±20 |
| -20 | 5220.000 | -122 | -0.023 | ±20 |
| -10 | 5220.000 | 107 | 0.020 | ±20 |
| 0 | 5220.000 | -88 | -0.017 | ±20 |
| 10 | 5220.000 | 113 | 0.022 | ±20 |
| 20 | 5220.000 | 179 | 0.034 | ±20 |
| 30 | 5220.000 | 161 | 0.031 | ±20 |
| 40 | 5220.000 | -95 | -0.018 | ±20 |
| 50 | 5220.000 | -91 | -0.017 | ±20 |

Frequency Stability under Temperature at 10min

| Temperature Interval (℃) | Test Frequency (MHz) | Deviation (Hz) | ppm | Limit |
|---|---|---|---|---|
| -30 | 5220.000 | -117 | -0.022 | ±20 |
| -20 | 5220.000 | 188 | 0.036 | ±20 |
| -10 | 5220.000 | 145 | 0.028 | ±20 |
| 0 | 5220.000 | -204 | -0.039 | ±20 |
| 10 | 5220.000 | -112 | -0.021 | ±20 |
| 20 | 5220.000 | -110 | -0.021 | ±20 |
| 30 | 5220.000 | -106 | -0.020 | ±20 |
| 40 | 5220.000 | 97 | 0.019 | ±20 |
| 50 | 5220.000 | -86 | -0.016 | ±20 |

Frequency Stability under Voltage

| AC Voltage (V) | Test Frequency (MHz) | Deviation (Hz) | ppm | Limit |
|---|---|---|---|---|
| 102 | 5220.000 | -143 | -0.027 | ±20 |
| 120 | 5220.000 | 171 | 0.033 | ±20 |
| 138 | 5220.000 | 134 | 0.026 | ±20 |

# 11. Antenna Requirement

## 11.1. Limit

| Antenna Requirement Limit |
|---|
| An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded. |

## 11.2. Antenna Connector Construction

| Antenna Connector Construction | |
|---|---|
| ☒ | The use of a permanently attached antenna |
| ☐ | The antenna use of a unique coupling to the intentional radiator |
| ☐ | The use of a nonstandard antenna jack or electrical connector |
| Please refer to the attached document “Internal Photograph” to show the antenna connector. | |

The End