

## TR5711 UT-Conference UNII-3 Annex

## Summary

| Test                            | Frequency (MHz) | Nominal Power (dBm) | Nominal Bandwidth (MHz) | Result |
|---------------------------------|-----------------|---------------------|-------------------------|--------|
| Emission Bandwidth 26 dB        | 5745.000        | 30.0                | 20.000000               | PASS   |
| RF output power                 | 5745.000        | 30.0                | 20.000000               | PASS   |
| Power Spectral Density          | 5745.000        | 30.0                | 20.000000               | PASS   |
| Minimum Emission Bandwidth 6 dB | 5745.000        | 30.0                | 20.000000               | PASS   |
| Occupied Channel Bandwidth 99%  | 5745.000        | 30.0                | 20.000000               | PASS   |
| Frequency Error                 | 5745.000        | 30.0                | 20.000000               | PASS   |
| Tx Spurious Emission            | 5745.000        | 30.0                | 20.000000               | PASS   |
| Emission Bandwidth 26 dB        | 5775.000        | 30.0                | 20.000000               | PASS   |
| Minimum Emission Bandwidth 6 dB | 5775.000        | 30.0                | 20.000000               | PASS   |
| Occupied Channel Bandwidth 99%  | 5775.000        | 30.0                | 20.000000               | PASS   |
| Frequency Error                 | 5775.000        | 30.0                | 20.000000               | PASS   |
| Tx Spurious Emission            | 5775.000        | 30.0                | 20.000000               | PASS   |
| Emission Bandwidth 26 dB        | 5825.000        | 30.0                | 20.000000               | PASS   |
| Minimum Emission Bandwidth 6 dB | 5825.000        | 30.0                | 20.000000               | PASS   |
| Occupied Channel Bandwidth 99%  | 5825.000        | 30.0                | 20.000000               | PASS   |
| Frequency Error                 | 5825.000        | 30.0                | 20.000000               | PASS   |
| Tx Spurious Emission            | 5825.000        | 30.0                | 20.000000               | PASS   |
| Emission Bandwidth 26 dB        | 5755.000        | 30.0                | 40.000000               | PASS   |
| Minimum Emission Bandwidth 6 dB | 5755.000        | 30.0                | 40.000000               | PASS   |
| Occupied Channel Bandwidth 99%  | 5755.000        | 30.0                | 40.000000               | PASS   |
| Tx Spurious Emission            | 5755.000        | 30.0                | 40.000000               | PASS   |
| Emission Bandwidth 26 dB        | 5775.000        | 30.0                | 40.000000               | PASS   |
| Minimum Emission Bandwidth 6 dB | 5775.000        | 30.0                | 40.000000               | PASS   |
| Occupied Channel Bandwidth 99%  | 5775.000        | 30.0                | 40.000000               | PASS   |
| Tx Spurious Emission            | 5775.000        | 30.0                | 40.000000               | PASS   |
| Emission Bandwidth 26 dB        | 5795.000        | 30.0                | 40.000000               | PASS   |
| Minimum Emission Bandwidth 6 dB | 5795.000        | 30.0                | 40.000000               | PASS   |
| Occupied Channel Bandwidth 99%  | 5795.000        | 30.0                | 40.000000               | PASS   |
| Tx Spurious Emission            | 5795.000        | 30.0                | 40.000000               | PASS   |
| Emission Bandwidth 26 dB        | 5775.000        | 30.0                | 80.000000               | PASS   |
| Minimum Emission Bandwidth 6 dB | 5775.000        | 30.0                | 80.000000               | PASS   |
| Occupied Channel Bandwidth 99%  | 5775.000        | 30.0                | 80.000000               | PASS   |
| Tx Spurious Emission            | 5775.000        | 30.0                | 80.000000               | PASS   |

## Emission Bandwidth 26 dB (5745 MHz; 30.000 dBm; 20 MHz)

Customized settings.

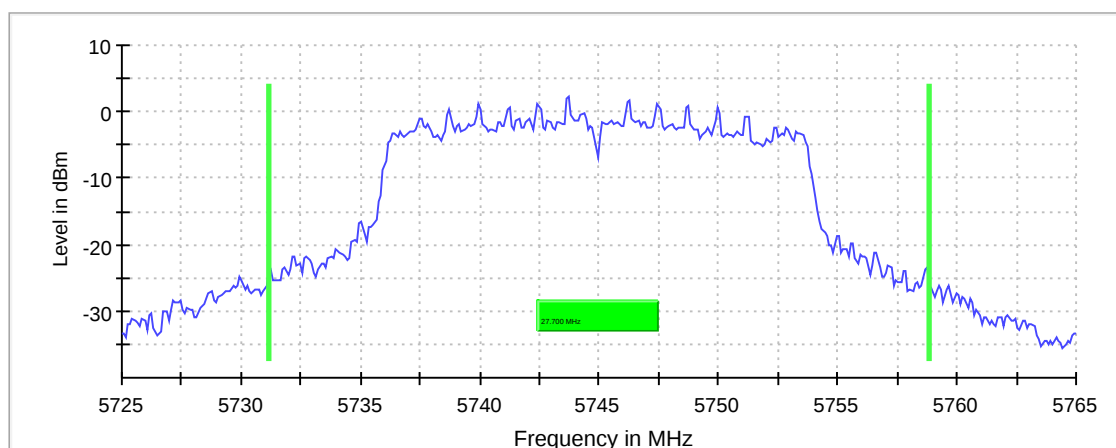
### 26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 5745.000000         | 27.700000       | ---             | ---             | 5731.150000          | 5758.850000           |

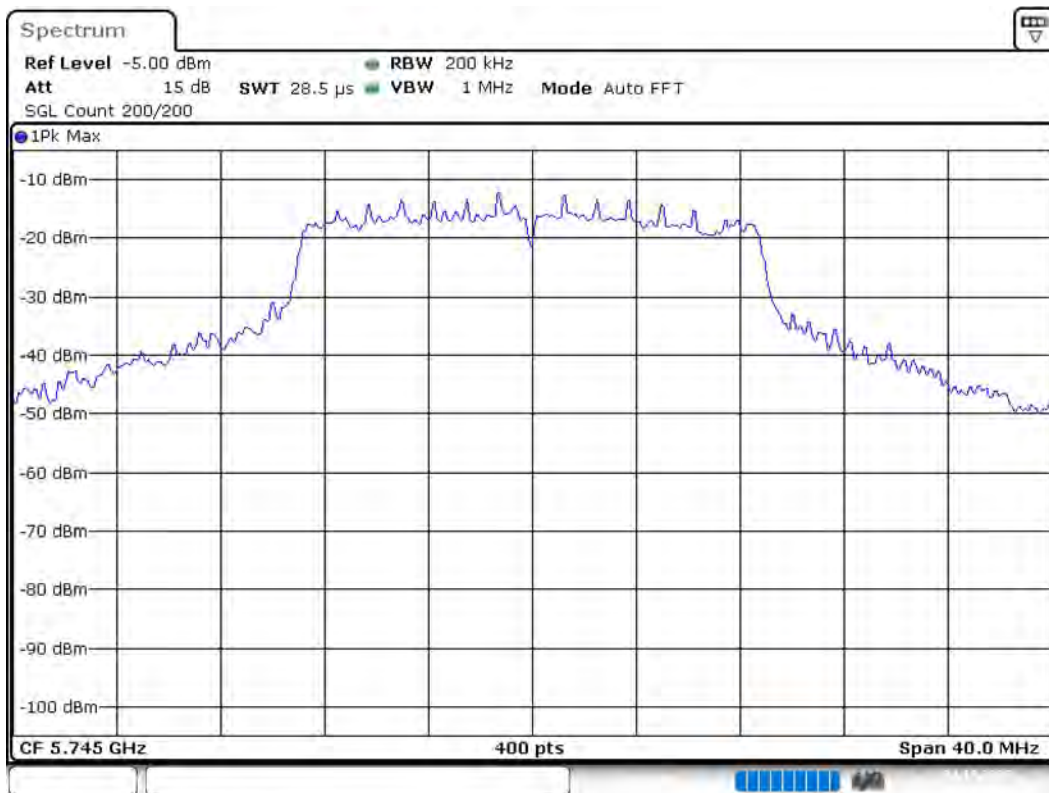
(continuation of the "26 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 5745.000000         | 2.3             | PASS   |

26 dB Bandwidth



Bandwidth



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## Measurement

| Setting         | Instrument Value | Target Value   |
|-----------------|------------------|----------------|
| Start Frequency | 5.72500 GHz      | 5.72500 GHz    |
| Stop Frequency  | 5.76500 GHz      | 5.76500 GHz    |
| Span            | 40.000 MHz       | 40.000 MHz     |
| RBW             | 200.000 kHz      | ~ 200.000 kHz  |
| VBW             | 1.000 MHz        | >= 600.000 kHz |
| SweepPoints     | 400              | ~ 400          |
| SweepTime       | 28.477 $\mu$ s   | AUTO           |
| Reference Level | -5.000 dBm       | -5.000 dBm     |
| Attenuation     | 15.000 dB        | AUTO           |
| Detector        | MaxPeak          | MaxPeak        |
| SweepCount      | 200              | 200            |
| Filter          | 3 dB             | 3 dB           |
| Trace Mode      | Max Hold         | Max Hold       |
| SweepType       | FFT              | AUTO           |
| Preamp          | off              | off            |

**RF output power (5745 MHz; 30.000 dBm; 20 MHz)**

Customized settings.

**Result**

| DUT Frequency<br>(MHz) | Gated RMS<br>(dBm) | Limit Max<br>(dBm) | Gated EIRP<br>(dBm) | DutyCycle<br>(%) | Result |
|------------------------|--------------------|--------------------|---------------------|------------------|--------|
| 5745.000000            | 17.0               | ---                | 17.0                | 98.329           | PASS   |

**OSP PowerMeter settings**

| Setting          | Instrument<br>Value | Target<br>Value |
|------------------|---------------------|-----------------|
| Measurement Time | 1.000 s             | 1.000 s         |
| Points           | 1000000             | 1000000         |
| Time resolution  | 1.000 $\mu$ s       | 1.000 $\mu$ s   |

## Power Spectral Density (5745 MHz; 30.000 dBm; 20 MHz)

Customized settings.

### Result

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---------------------|-----------------|-----------|-----------------|--------|
| 5745.000000         | 5743.811881     | 0.372     | 30.0            | PASS   |

### Ports

| Port | State |
|------|-------|
| 1    | used  |
| 2    | used  |

### Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 5.73500 GHz      | 5.73500 GHz    |
| Stop Frequency        | 5.75500 GHz      | 5.75500 GHz    |
| Span                  | 20.000 MHz       | 20.000 MHz     |
| RBW                   | 500.000 kHz      | <= 500.000 kHz |
| VBW                   | 2.000 MHz        | >= 1.500 MHz   |
| SweepPoints           | 101              | ~ 80           |
| Sweeptime             | 2.020 ms         | 2.020 ms       |
| Reference Level       | 10.000 dBm       | 10.000 dBm     |
| Attenuation           | 30.000 dB        | AUTO           |
| Detector              | RMS              | RMS            |
| SweepCount            | 100              | 100            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | FFT              | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.30 dB          | 0.30 dB        |
| Run                   | 4 / max. 15      | max. 15        |
| Stable                | 3 / 3            | 3              |
| Max Stable Difference | 0.11 dB          | 0.30 dB        |

Minimum Emission Bandwidth 6 dB (5745 MHz; 30.000 dBm; 20 MHz)

Customized settings.

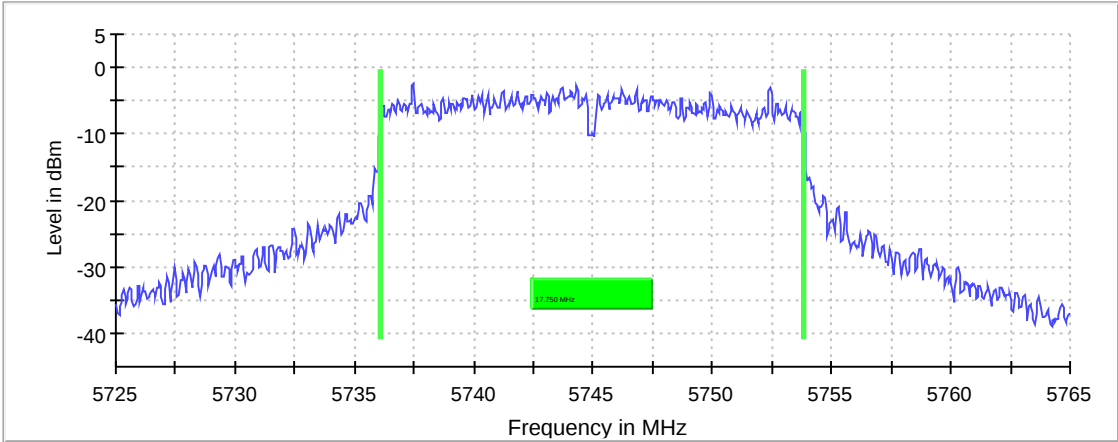
6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 5745.000000         | 17.750000       | 0.500000        | ---             | 5736.075000          | 5753.825000           |

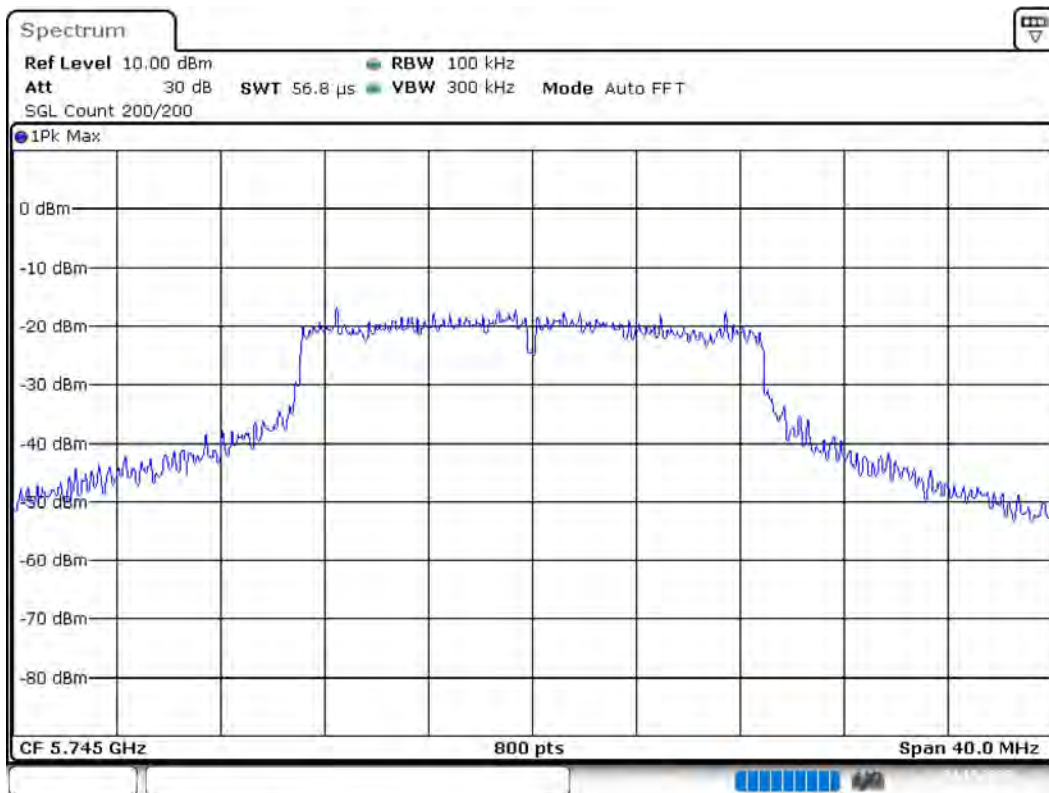
(continuation of the "6 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 5745.000000         | -2.4            | PASS   |

6 dB Bandwidth



Bandwidth



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## Measurement

| Setting         | Instrument Value | Target Value  |
|-----------------|------------------|---------------|
| Start Frequency | 5.72500 GHz      | 5.72500 GHz   |
| Stop Frequency  | 5.76500 GHz      | 5.76500 GHz   |
| Span            | 40.000 MHz       | 40.000 MHz    |
| RBW             | 100.000 kHz      | ~ 100.000 kHz |
| VBW             | 300.000 kHz      | ~ 300.000 kHz |
| SweepPoints     | 800              | ~ 800         |
| SweepTime       | 56.836 $\mu$ s   | AUTO          |
| Reference Level | 10.000 dBm       | 10.000 dBm    |
| Attenuation     | 30.000 dB        | AUTO          |
| Detector        | MaxPeak          | MaxPeak       |
| SweepCount      | 200              | 200           |
| Filter          | 3 dB             | 3 dB          |
| Trace Mode      | Max Hold         | Max Hold      |
| SweepType       | FFT              | AUTO          |
| Preamp          | off              | off           |

Occupied Channel Bandwidth 99% (5745 MHz; 30.000 dBm; 20 MHz)

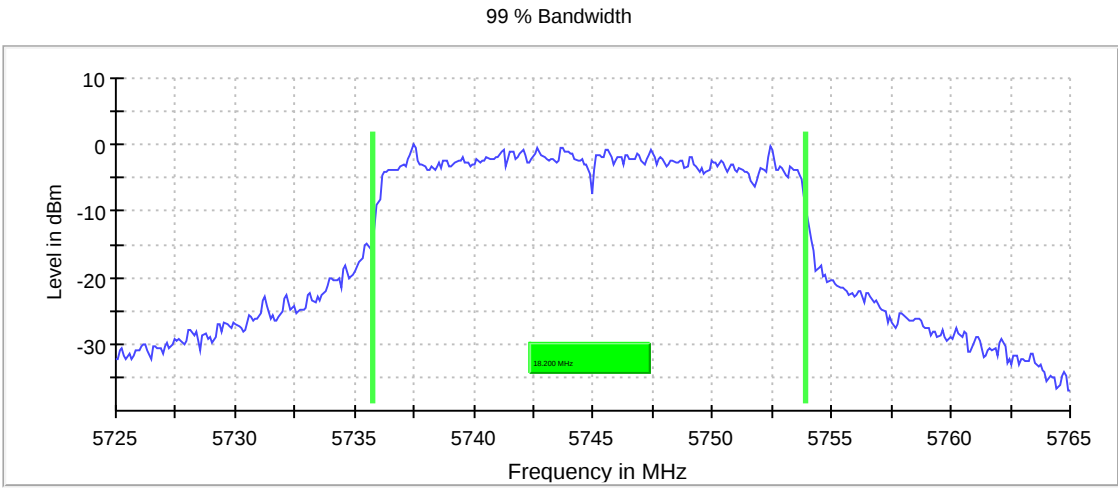
Customized settings.

99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 5745.000000         | 18.200000       | ---             | ---             | 5735.750000          | 5753.950000           |

(continuation of the "99 % Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5745.000000         | PASS   |



Bandwidth



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## Measurement

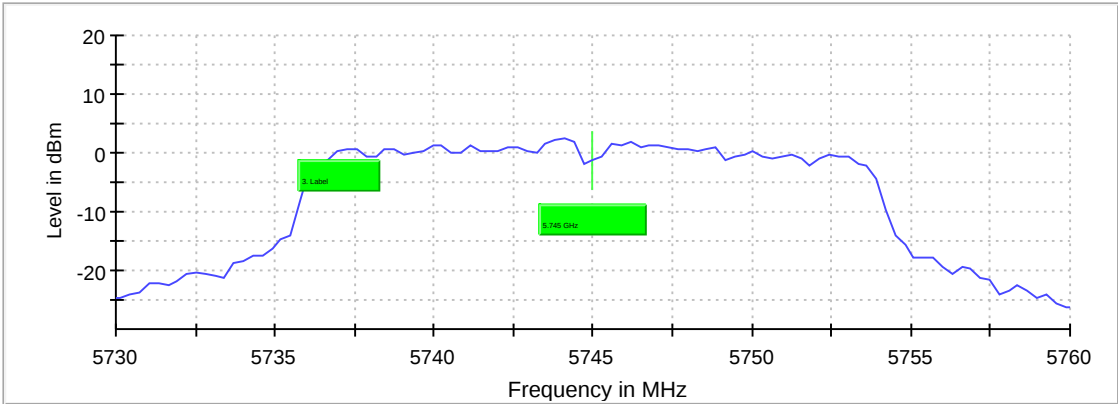
| Setting         | Instrument Value | Target Value       |
|-----------------|------------------|--------------------|
| Start Frequency | 5.72500 GHz      | 5.72500 GHz        |
| Stop Frequency  | 5.76500 GHz      | 5.76500 GHz        |
| Span            | 40.000 MHz       | 40.000 MHz         |
| RBW             | 200.000 kHz      | $\geq$ 200.000 kHz |
| VBW             | 1.000 MHz        | $\geq$ 600.000 kHz |
| SweepPoints     | 400              | $\sim$ 400         |
| SweepTime       | 28.477 $\mu$ s   | AUTO               |
| Reference Level | -5.000 dBm       | -5.000 dBm         |
| Attenuation     | 15.000 dB        | AUTO               |
| Detector        | MaxPeak          | MaxPeak            |
| SweepCount      | 200              | 200                |
| Filter          | 3 dB             | 3 dB               |
| Trace Mode      | Max Hold         | Max Hold           |
| SweepType       | FFT              | AUTO               |
| Preamp          | off              | off                |

Frequency Error (5745 MHz; 30.000 dBm; 20 MHz)

Result

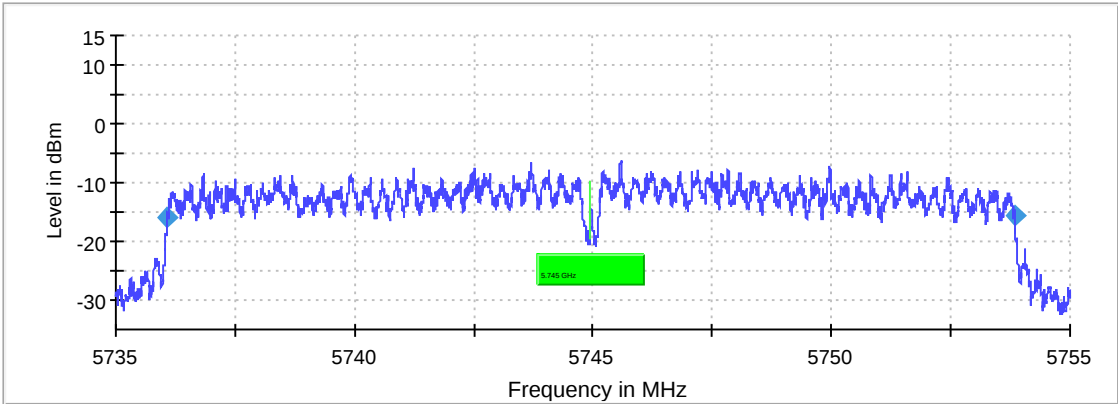
| DUT Frequency (MHz) | Frequency (MHz) | Difference (ppm) | Frequency Difference (kHz) | Limit Min (MHz) | Limit Max (MHz) | Result |
|---------------------|-----------------|------------------|----------------------------|-----------------|-----------------|--------|
| 5745.000000         | 5744.956005     | 7.658            | -43.995500                 | ---             | ---             | PASS   |

Frequency stability Pre



Center frequency      Max Hold

Frequency stability



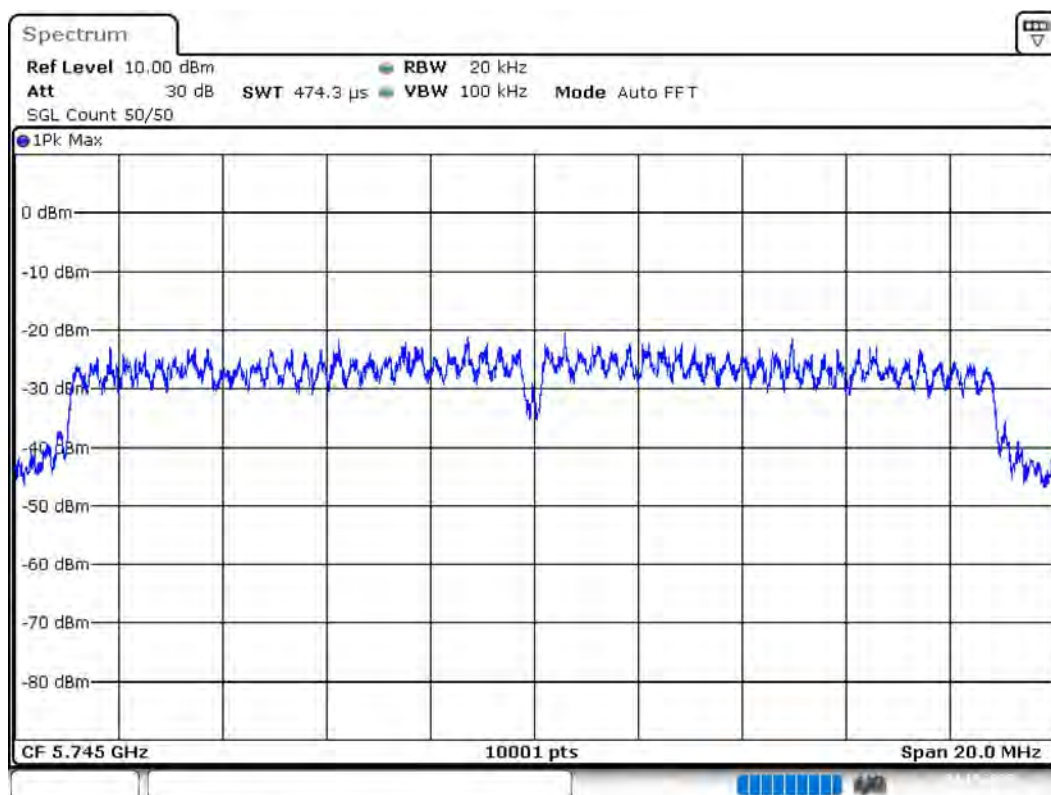
Edge points      Max Hold      Center frequency

Frequency stability Pre



Date: 4.NOV.2020 13:07:45

Frequency stability



Date: 4.NOV.2020 13:08:24

## Measurement

| Setting               | Instrument Value | Target Value      |
|-----------------------|------------------|-------------------|
| Start Frequency       | 5.73500 GHz      | 5.73500 GHz       |
| Stop Frequency        | 5.75500 GHz      | 5.75500 GHz       |
| Span                  | 20.000 MHz       | 20.000 MHz        |
| RBW                   | 20.000 kHz       | $\leq 20.000$ kHz |
| VBW                   | 100.000 kHz      | $\geq 60.000$ kHz |
| SweepPoints           | 10001            | $\sim 10001$      |
| SweepTime             | 474.291 $\mu$ s  | AUTO              |
| Reference Level       | 10.000 dBm       | 10.000 dBm        |
| Attenuation           | 30.000 dB        | AUTO              |
| Detector              | MaxPeak          | MaxPeak           |
| SweepCount            | 50               | 50                |
| Filter                | 3 dB             | 3 dB              |
| Trace Mode            | Max Hold         | Max Hold          |
| SweepType             | FFT              | AUTO              |
| Preamp                | off              | off               |
| Stablemode            | Trace            | Trace             |
| Stablevalue           | 1.00 dB          | 1.00 dB           |
| Run                   | 29 / max. 150    | max. 150          |
| Stable                | 1 / 1            | 1                 |
| Max Stable Difference | 0.98 dB          | 1.00 dB           |

## Tx Spurious Emission (5745 MHz; 30.000 dBm; 20 MHz)

Customized settings.

### Result

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5745.000000         | PASS   |

### Final measurements

| Frequency (MHz) | Level Pre Measurement (dBm) | level (dBm) | Limit (dBm) | Margin (dB) | Result |
|-----------------|-----------------------------|-------------|-------------|-------------|--------|
| ---             | ---                         | ---         | ---         | ---         | ---    |

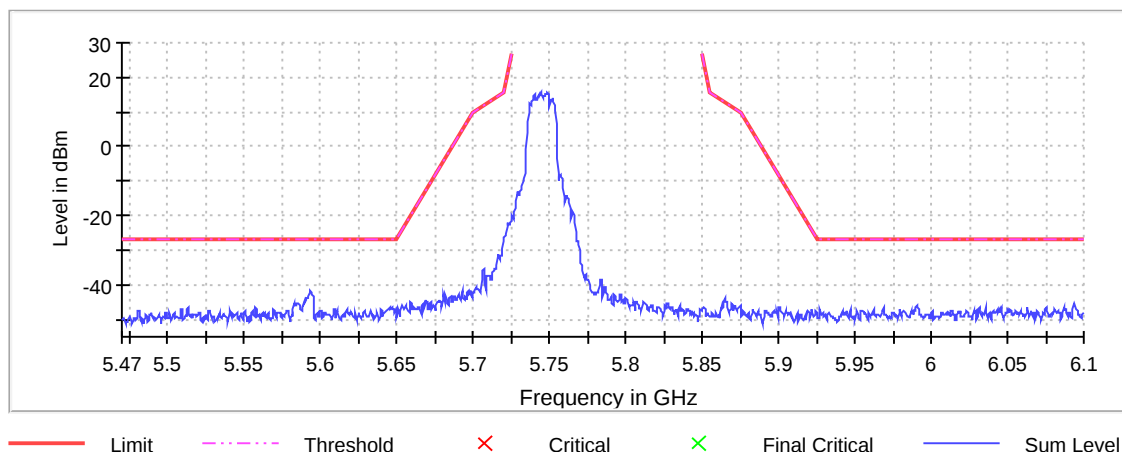
### Pre Measurements

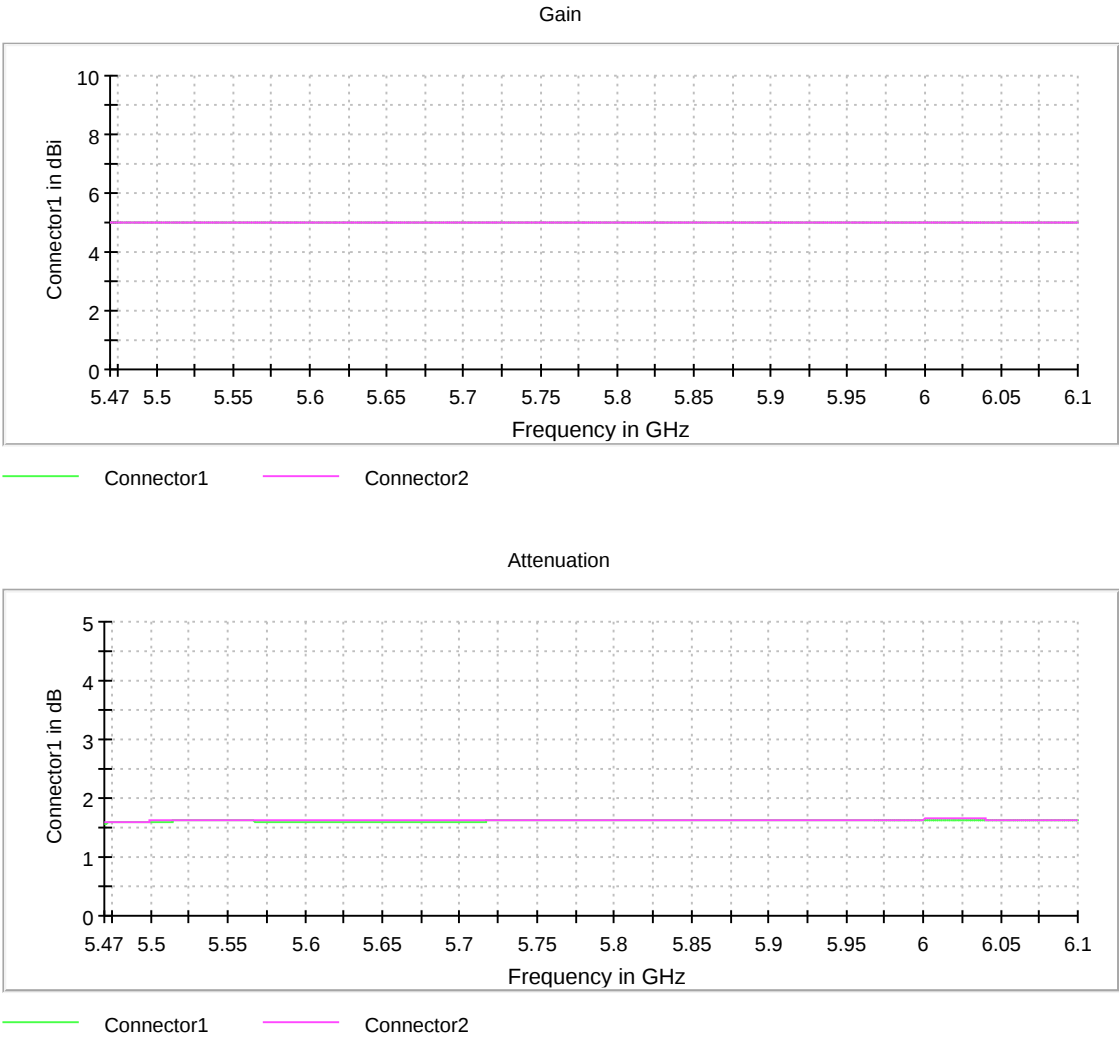
| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) |
|-----------------|-------------|-------------|-------------|
| 5593.250000     | -41.9       | 14.9        | -27.0       |
| 5593.750000     | -41.9       | 14.9        | -27.0       |
| 5592.750000     | -42.3       | 15.3        | -27.0       |
| 5594.250000     | -42.5       | 15.5        | -27.0       |
| 5594.750000     | -42.8       | 15.8        | -27.0       |
| 5595.250000     | -43.1       | 16.1        | -27.0       |
| 5592.250000     | -43.1       | 16.1        | -27.0       |
| 5591.750000     | -43.6       | 16.6        | -27.0       |
| 5591.250000     | -44.0       | 17.0        | -27.0       |
| 5590.750000     | -44.0       | 17.0        | -27.0       |
| 5590.250000     | -44.6       | 17.6        | -27.0       |
| 5595.750000     | -44.9       | 17.9        | -27.0       |
| 5589.250000     | -45.1       | 18.1        | -27.0       |
| 5588.750000     | -45.1       | 18.1        | -27.0       |
| 5589.750000     | -45.4       | 18.4        | -27.0       |

### Measurement Settings

| Start Frequency (MHz) | Stop Frequency (MHz) | Pre Measurement | Final Measurement |
|-----------------------|----------------------|-----------------|-------------------|
| 5470.000000           | 6100.000000          | 2               | 2                 |

Spurious





Pre Measurement 2

| Setting         | Instrument Value | Target Value |
|-----------------|------------------|--------------|
| RBW             | 1.000 MHz        | <= 1.000 MHz |
| VBW             | 3.000 MHz        | >= 3.000 MHz |
| SweepPoints     | 1260             | ~ 1260       |
| SweepTime       | 85.781 $\mu$ s   | AUTO         |
| Reference Level | -10.000 dBm      | -10.000 dBm  |
| Attenuation     | 20.000 dB        | 20.000 dB    |
| Detector        | MaxPeak          | MaxPeak      |
| SweepCount      | 30               | 30           |
| Filter          | 3 dB             | 3 dB         |
| Trace Mode      | Max Hold         | Max Hold     |
| SweepType       | FFT              | AUTO         |
| Preamp          | off              | off          |

Emission Bandwidth 26 dB (5775 MHz; 30.000 dBm; 20 MHz)

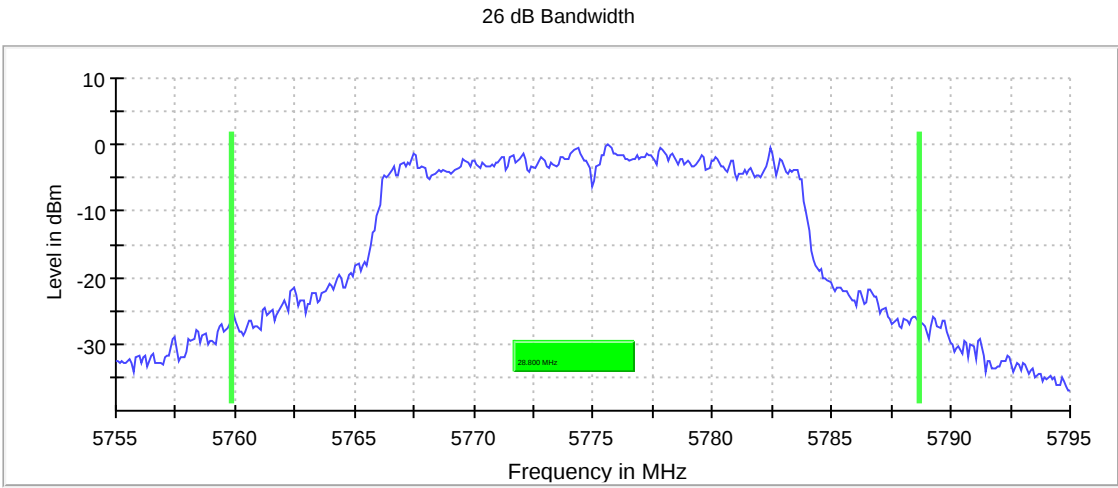
Customized settings.

26 dB Bandwidth

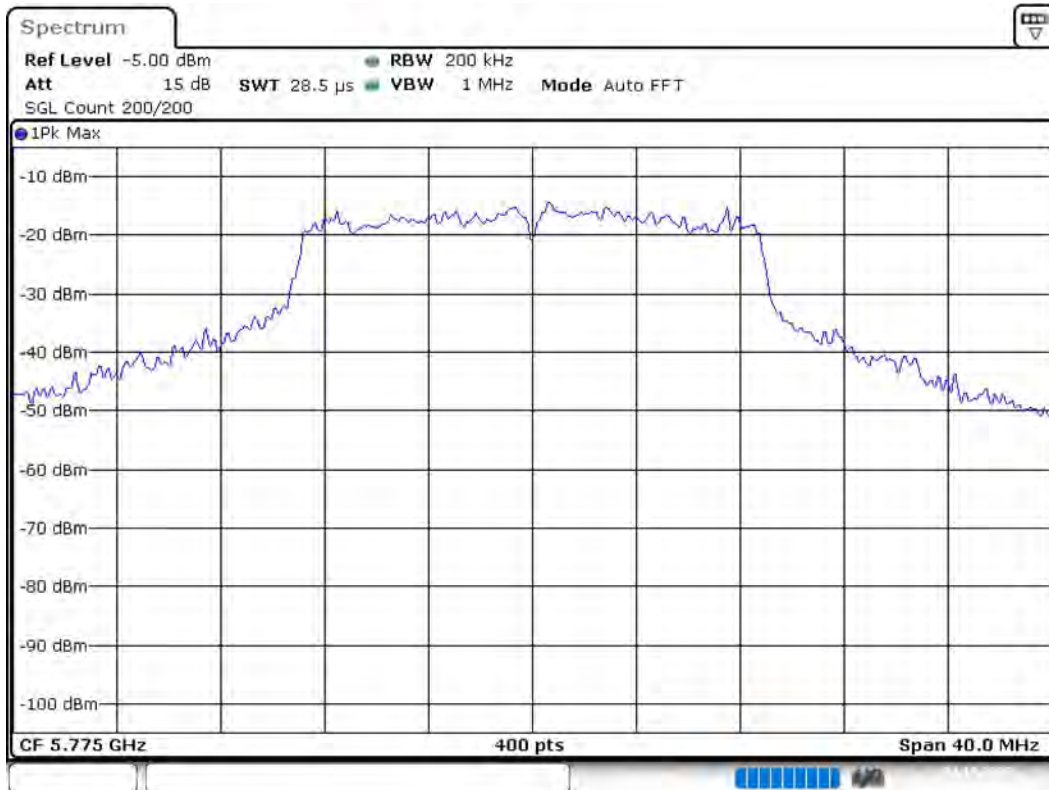
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 5775.000000         | 28.800000       | ---             | ---             | 5759.850000          | 5788.650000           |

(continuation of the "26 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 5775.000000         | 0.0             | PASS   |



Bandwidth



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Minimum Emission Bandwidth 6 dB (5775 MHz; 30.000 dBm; 20 MHz)

Customized settings.

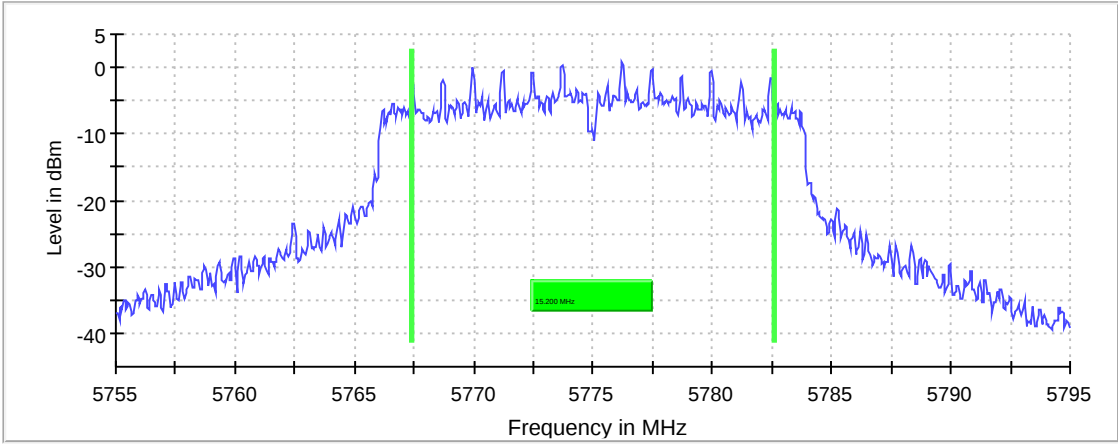
6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 5775.000000         | 15.200000       | 0.500000        | ---             | 5767.375000          | 5782.575000           |

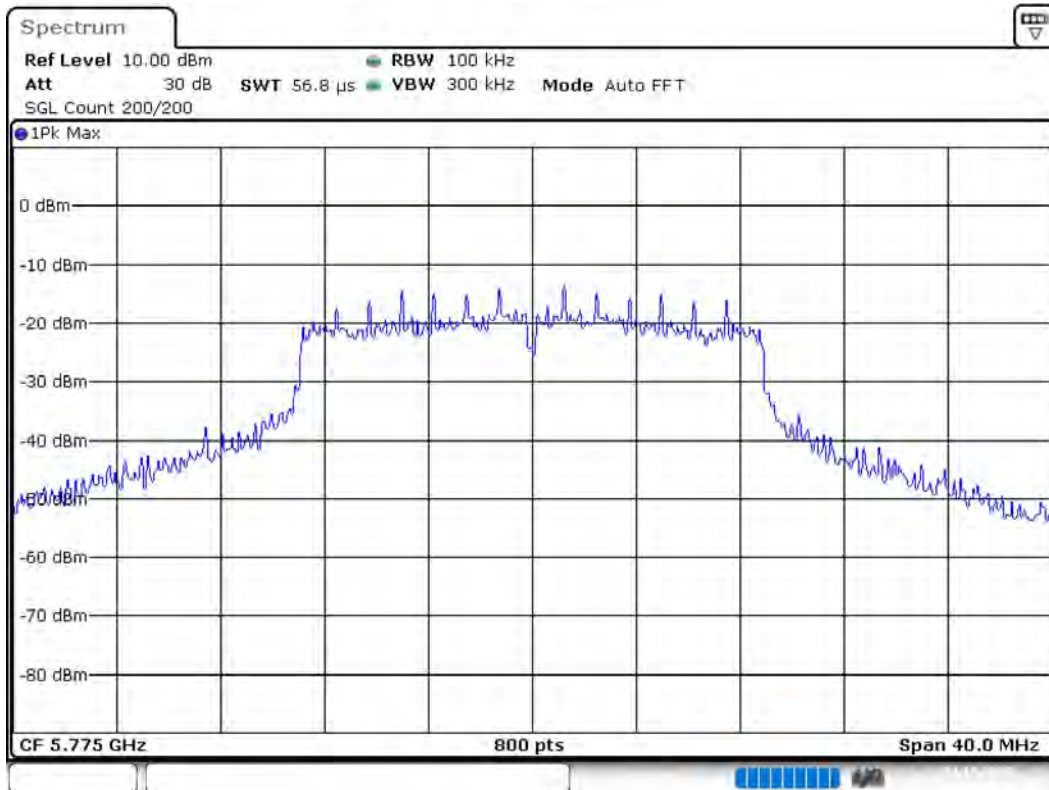
(continuation of the "6 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 5775.000000         | 0.8             | PASS   |

6 dB Bandwidth



Bandwidth



Date: 4.NOV.2020 13:24:12

Occupied Channel Bandwidth 99% (5775 MHz; 30.000 dBm; 20 MHz)

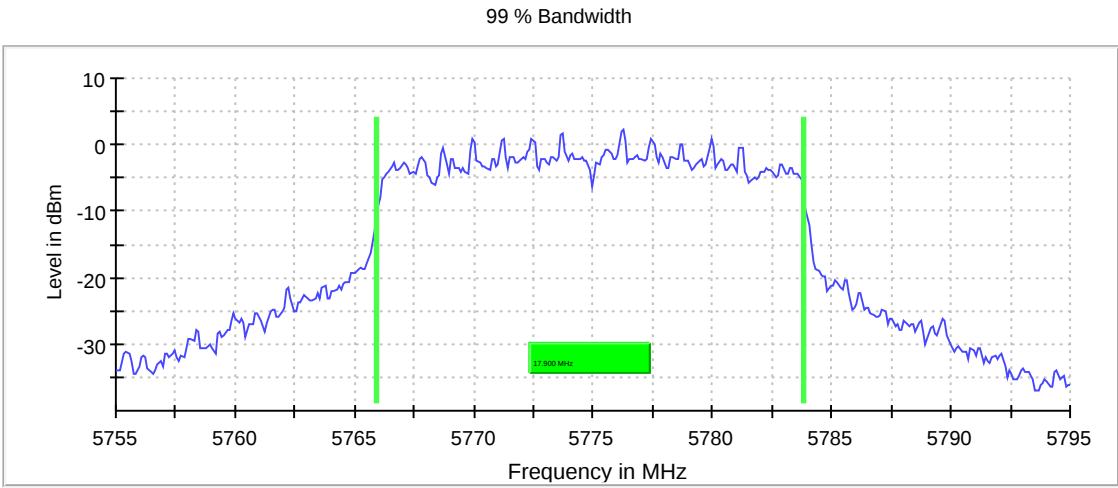
Customized settings.

99 % Bandwidth

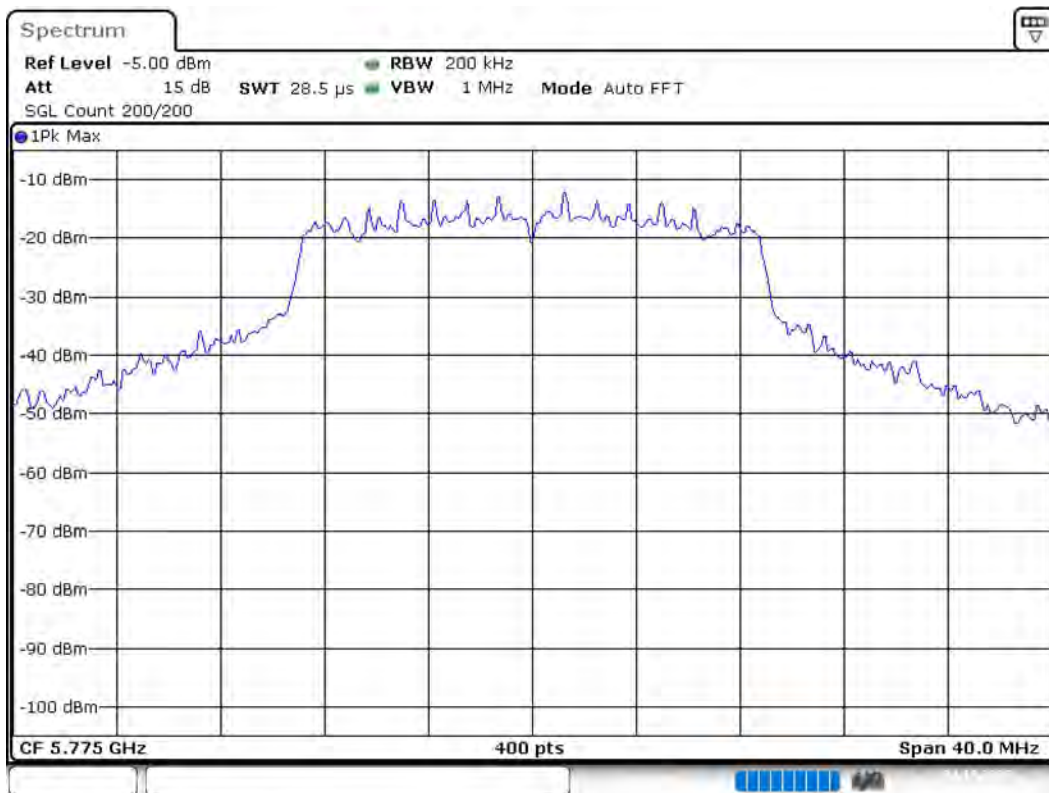
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 5775.000000         | 17.900000       | ---             | ---             | 5765.950000          | 5783.850000           |

(continuation of the "99 % Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5775.000000         | PASS   |



Bandwidth



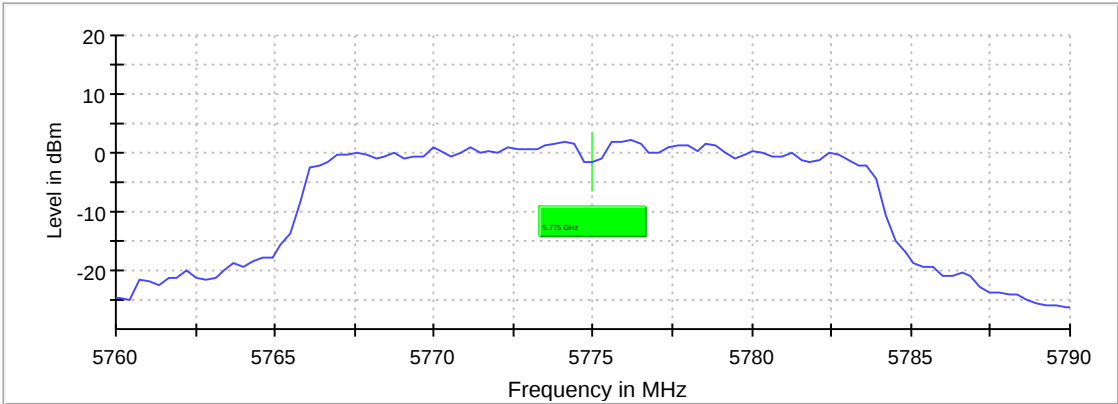
Date: 4.NOV.2020 13:24:20

Frequency Error (5775 MHz; 30.000 dBm; 20 MHz)

Result

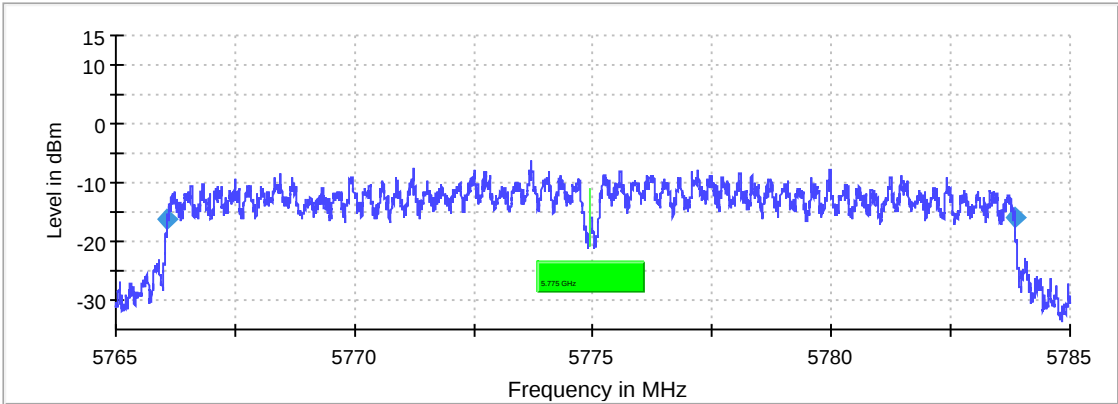
| DUT Frequency (MHz) | Frequency (MHz) | Difference (ppm) | Frequency Difference (kHz) | Limit Min (MHz) | Limit Max (MHz) | Result |
|---------------------|-----------------|------------------|----------------------------|-----------------|-----------------|--------|
| 5775.000000         | 5774.958005     | 7.272            | -41.995500                 | ---             | ---             | PASS   |

Frequency stability Pre



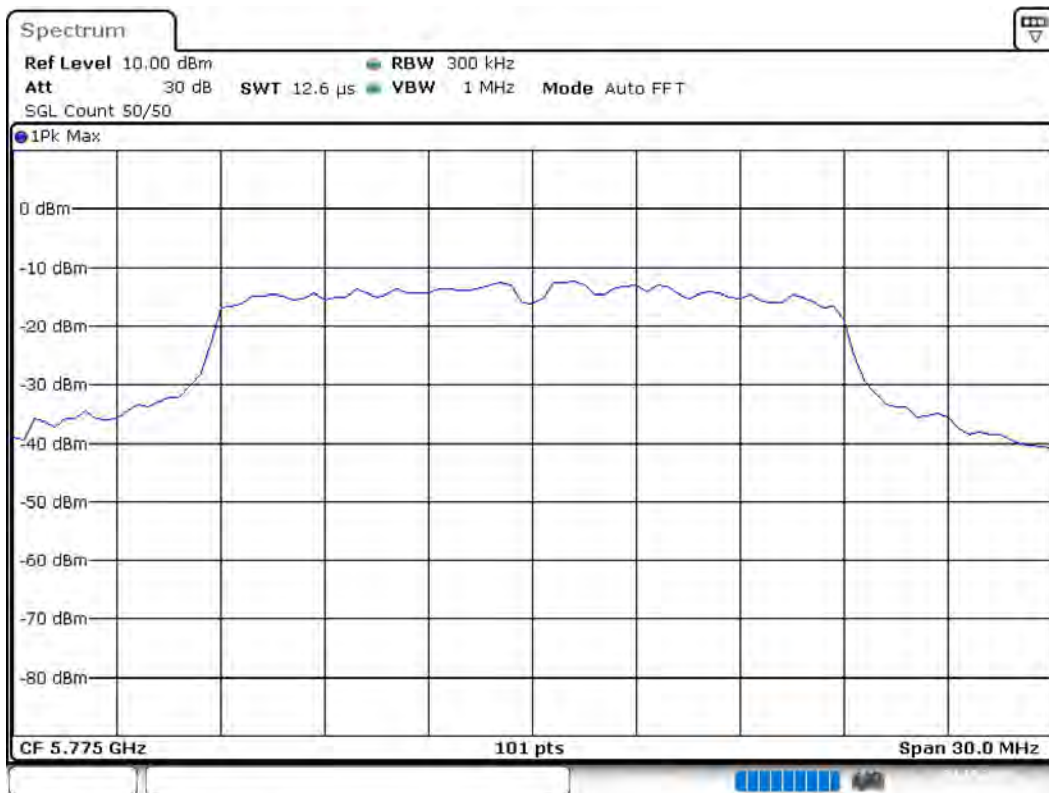
Center frequency Max Hold

Frequency stability



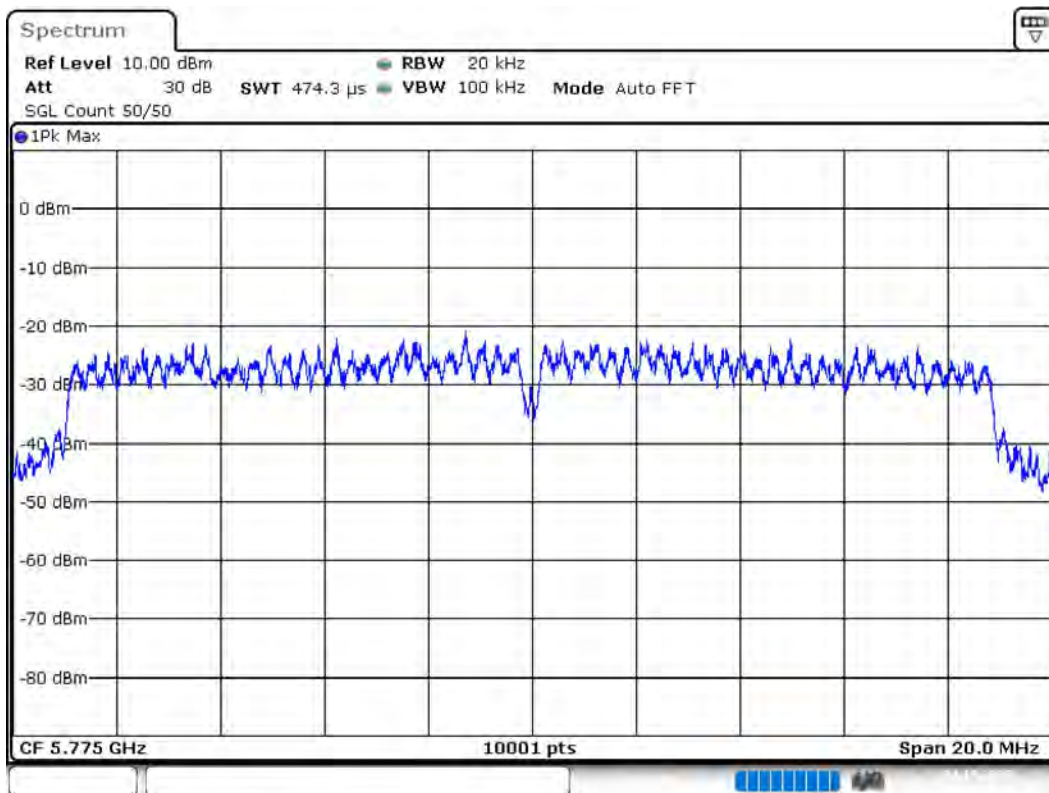
Edge points Max Hold Center frequency

Frequency stability Pre



Date: 4.NOV.2020 13:24:31

Frequency stability



Date: 4.NOV.2020 13:24:59

## Tx Spurious Emission (5775 MHz; 30.000 dBm; 20 MHz)

Customized settings.

### Result

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5775.000000         | PASS   |

### Final measurements

| Frequency (MHz) | Level Pre Measurement (dBm) | level (dBm) | Limit (dBm) | Margin (dB) | Result |
|-----------------|-----------------------------|-------------|-------------|-------------|--------|
| ---             | ---                         | ---         | ---         | ---         | ---    |

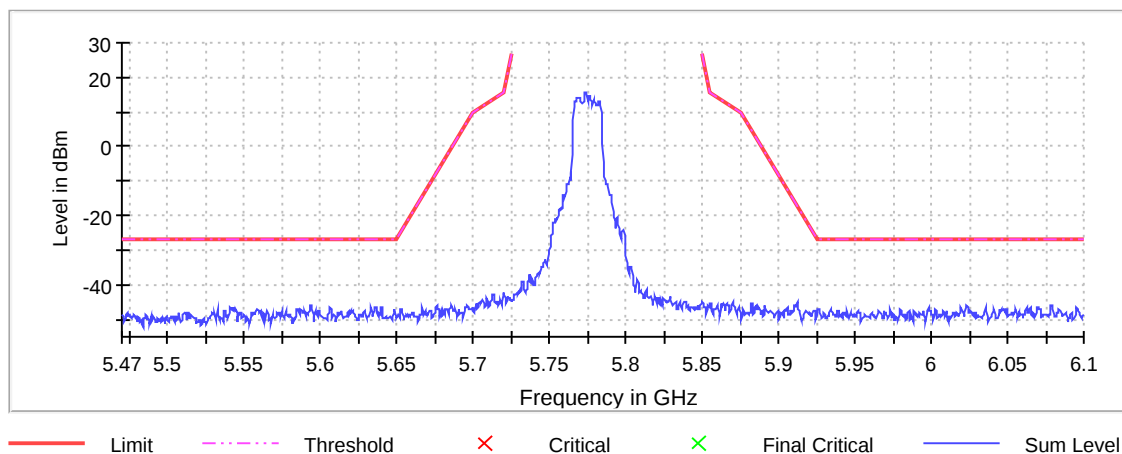
### Pre Measurements

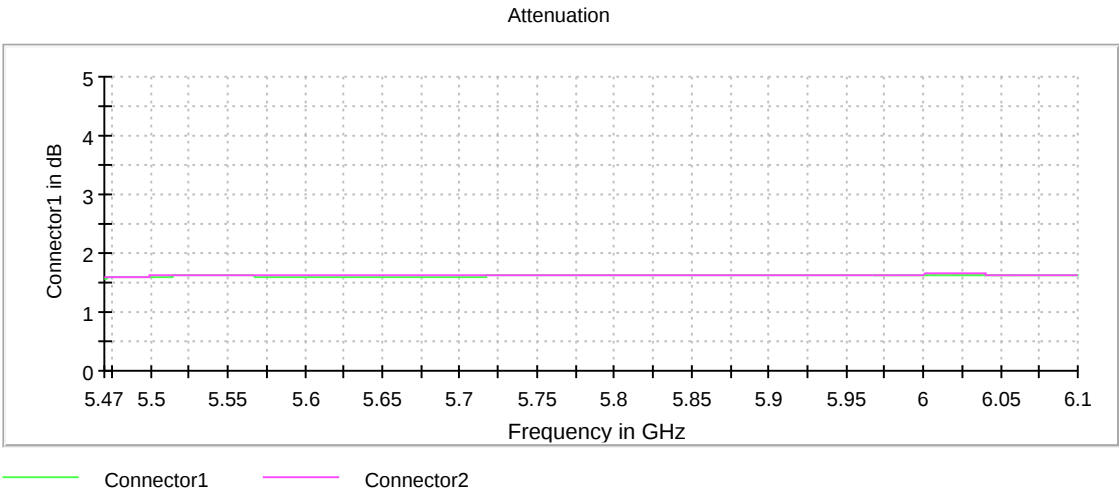
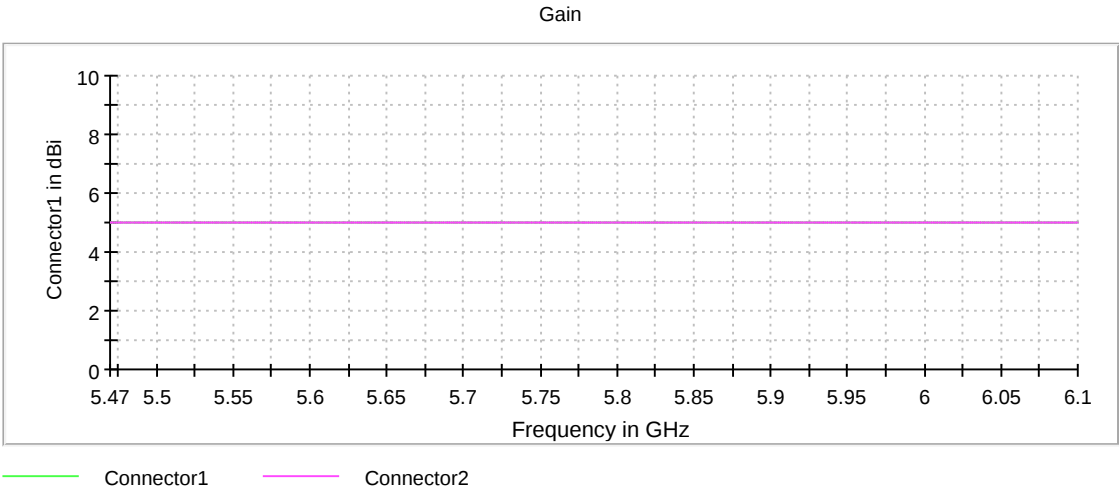
| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) |
|-----------------|-------------|-------------|-------------|
| 6078.750000     | -45.7       | 18.7        | -27.0       |
| 6079.250000     | -45.9       | 18.9        | -27.0       |
| 5594.250000     | -46.0       | 19.0        | -27.0       |
| 6023.250000     | -46.0       | 19.0        | -27.0       |
| 5593.750000     | -46.0       | 19.0        | -27.0       |
| 5540.750000     | -46.3       | 19.3        | -27.0       |
| 6022.750000     | -46.3       | 19.3        | -27.0       |
| 6064.750000     | -46.4       | 19.4        | -27.0       |
| 6023.750000     | -46.4       | 19.4        | -27.0       |
| 5541.750000     | -46.4       | 19.4        | -27.0       |
| 5635.750000     | -46.5       | 19.5        | -27.0       |
| 5636.250000     | -46.5       | 19.5        | -27.0       |
| 5639.750000     | -46.5       | 19.5        | -27.0       |
| 6019.250000     | -46.6       | 19.6        | -27.0       |
| 6019.750000     | -46.6       | 19.6        | -27.0       |

### Measurement Settings

| Start Frequency (MHz) | Stop Frequency (MHz) | Pre Measurement | Final Measurement |
|-----------------------|----------------------|-----------------|-------------------|
| 5470.000000           | 6100.000000          | 2               | 2                 |

Spurious





Emission Bandwidth 26 dB (5825 MHz; 30.000 dBm; 20 MHz)

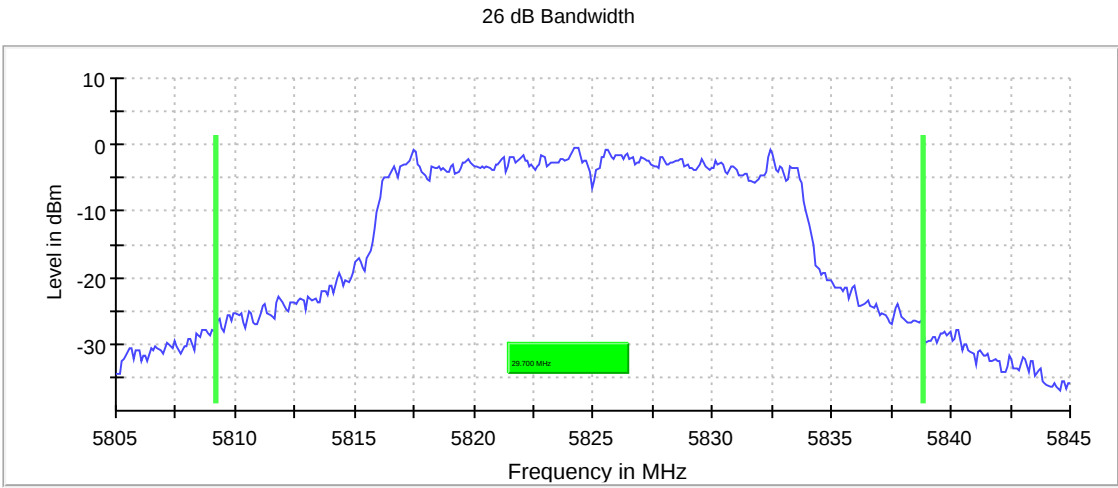
Customized settings.

26 dB Bandwidth

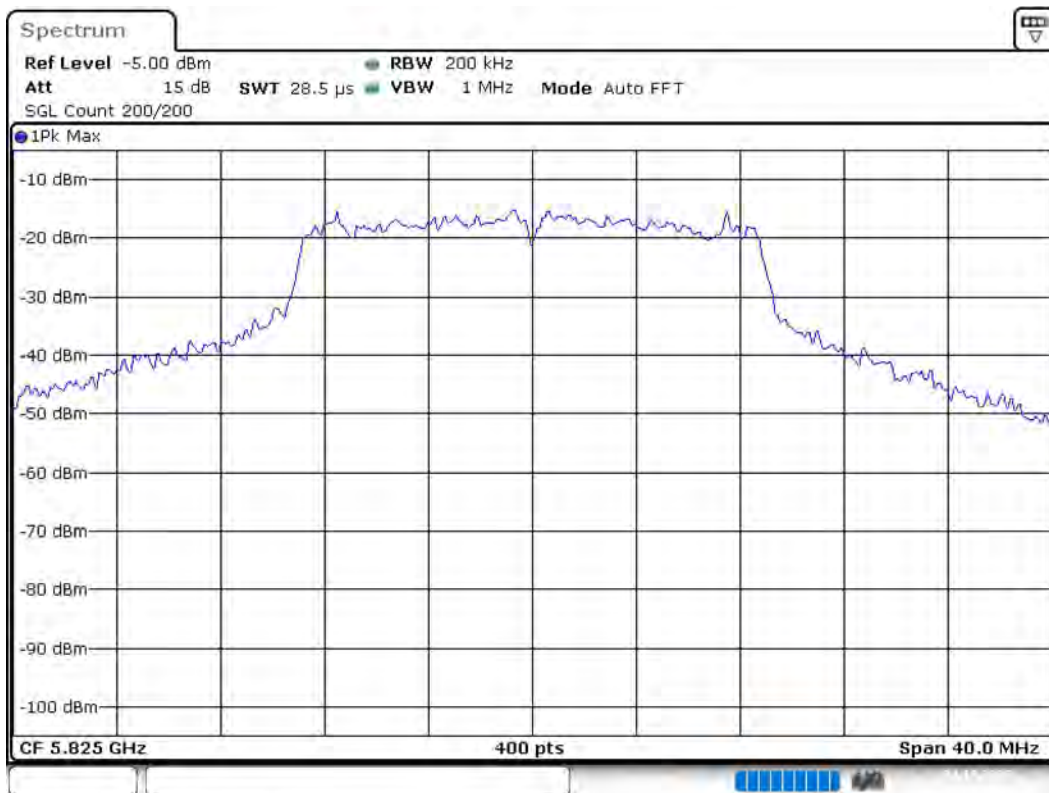
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 5825.000000         | 29.700000       | ---             | ---             | 5809.150000          | 5838.850000           |

(continuation of the "26 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 5825.000000         | -0.5            | PASS   |



Bandwidth



Date: 4.NOV.2020 14:06:08

Minimum Emission Bandwidth 6 dB (5825 MHz; 30.000 dBm; 20 MHz)

Customized settings.

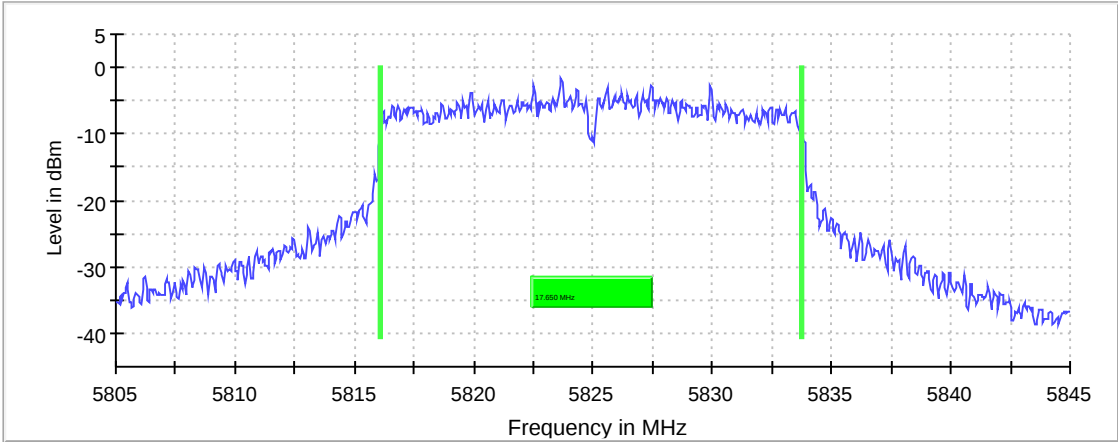
6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 5825.000000         | 17.650000       | 0.500000        | ---             | 5816.125000          | 5833.775000           |

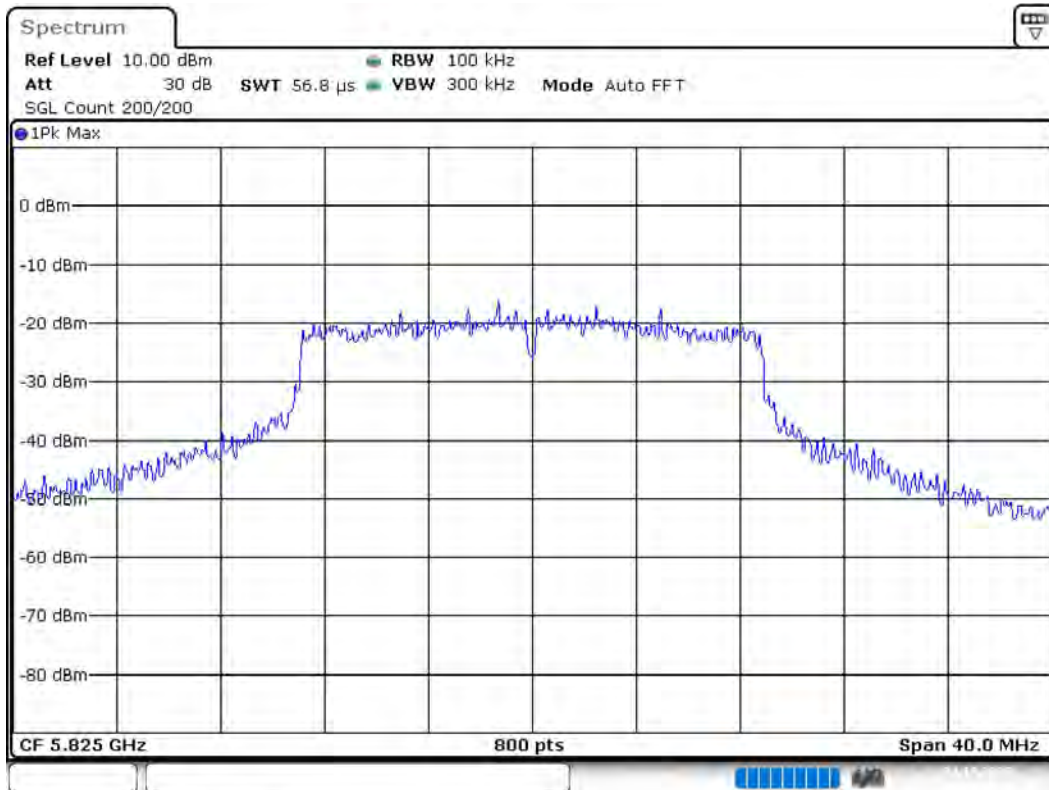
(continuation of the "6 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 5825.000000         | -1.7            | PASS   |

6 dB Bandwidth



Bandwidth



Occupied Channel Bandwidth 99% (5825 MHz; 30.000 dBm; 20 MHz)

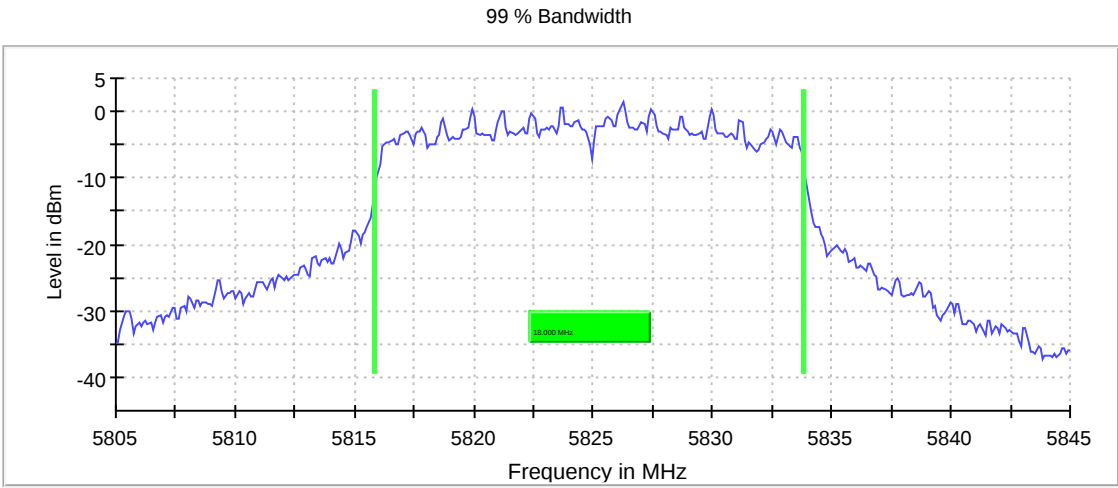
Customized settings.

99 % Bandwidth

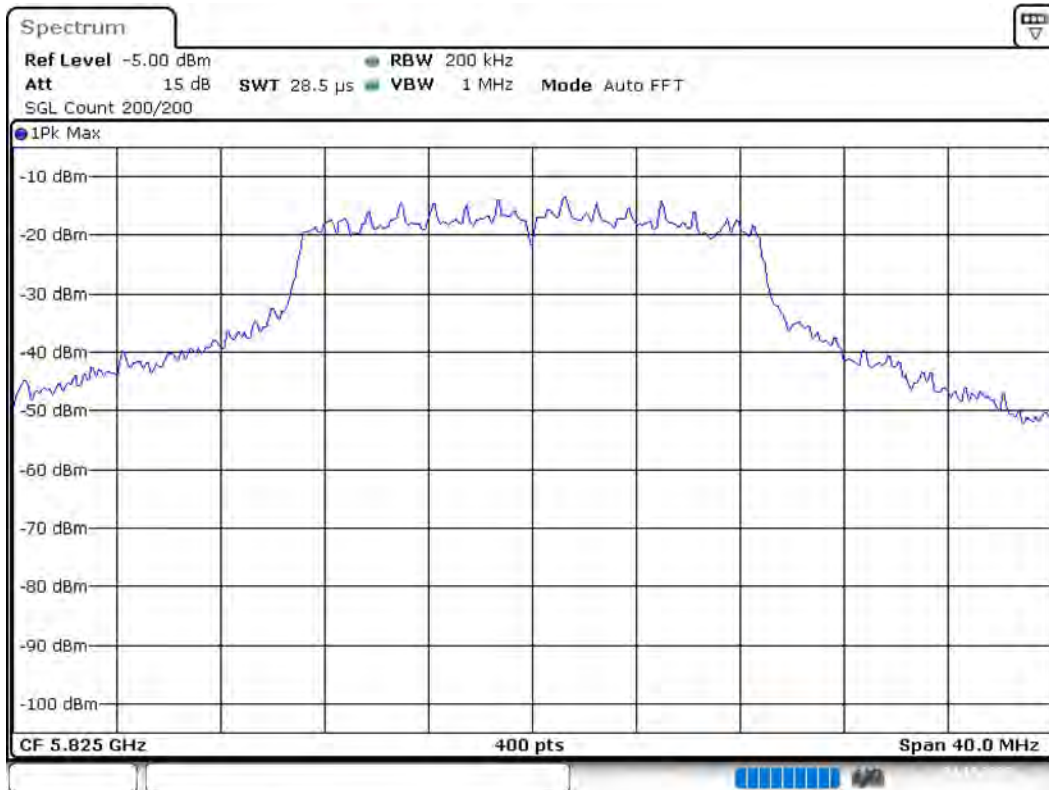
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 5825.000000         | 18.000000       | ---             | ---             | 5815.850000          | 5833.850000           |

(continuation of the "99 % Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5825.000000         | PASS   |



Bandwidth



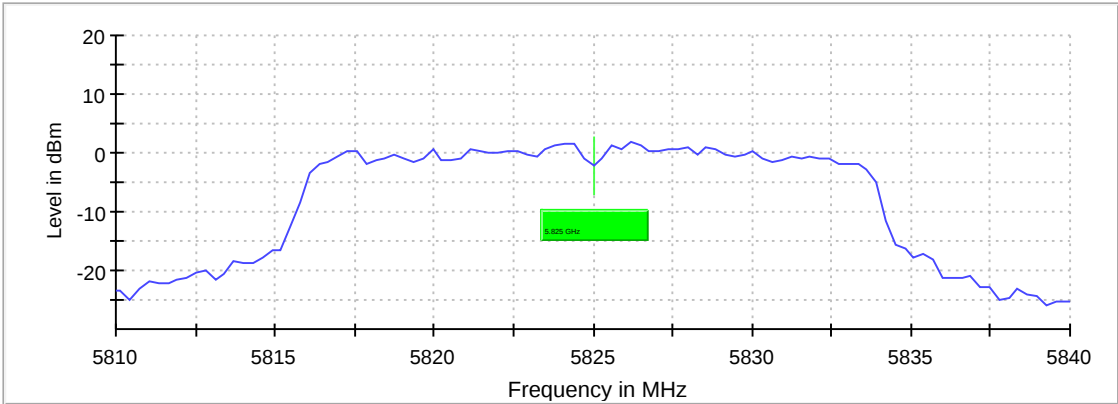
Date: 4.NOV.2020 14:07:14

Frequency Error (5825 MHz; 30.000 dBm; 20 MHz)

Result

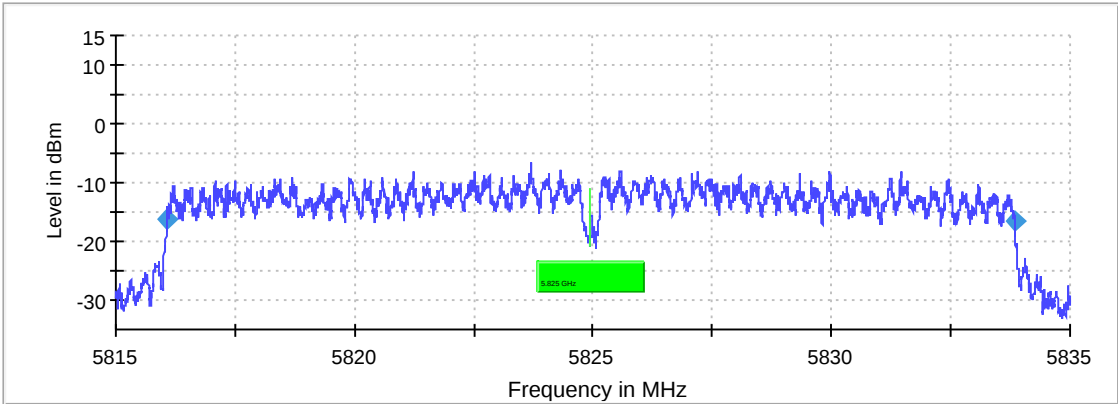
| DUT Frequency (MHz) | Frequency (MHz) | Difference (ppm) | Frequency Difference (kHz) | Limit Min (MHz) | Limit Max (MHz) | Result |
|---------------------|-----------------|------------------|----------------------------|-----------------|-----------------|--------|
| 5825.000000         | 5824.955005     | 7.725            | -44.995500                 | ---             | ---             | PASS   |

Frequency stability Pre



Center frequency Max Hold

Frequency stability



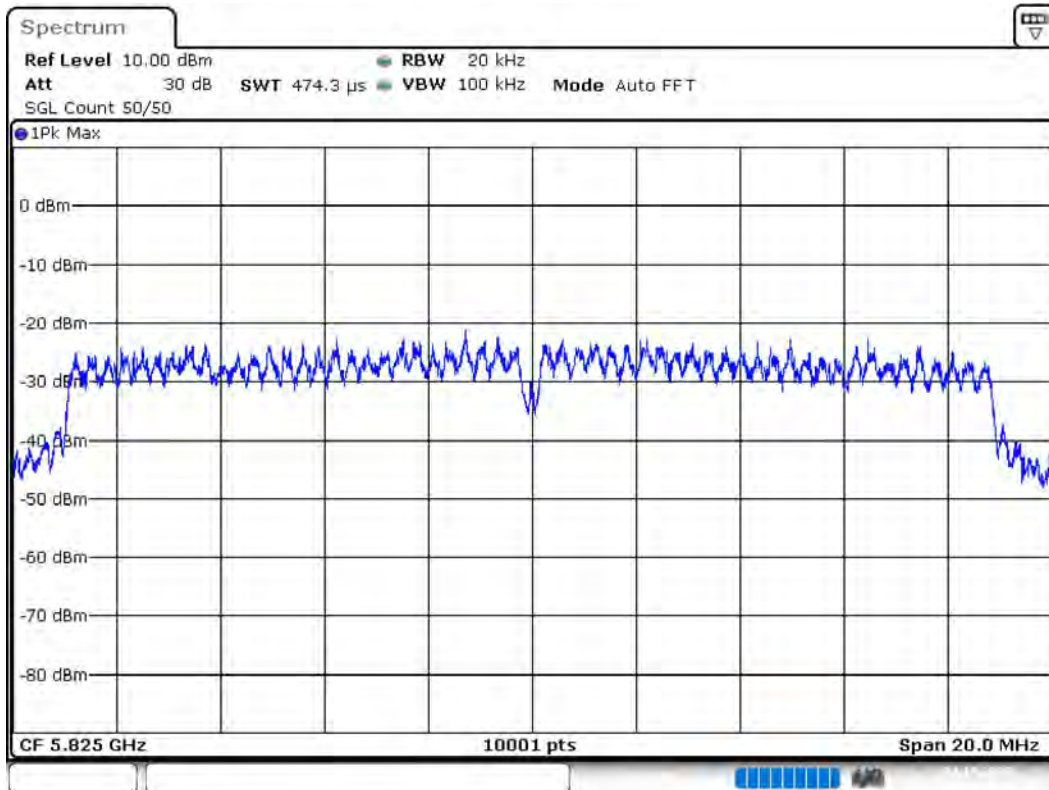
Edge points Max Hold Center frequency

Frequency stability Pre



Date: 4,NOV,2020 14:07:27

Frequency stability



Date: 4.NOV.2020 14:08:17

## Tx Spurious Emission (5825 MHz; 30.000 dBm; 20 MHz)

Customized settings.

### Result

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5825.000000         | PASS   |

### Final measurements

| Frequency (MHz) | Level Pre Measurement (dBm) | level (dBm) | Limit (dBm) | Margin (dB) | Result |
|-----------------|-----------------------------|-------------|-------------|-------------|--------|
| ---             | ---                         | ---         | ---         | ---         | ---    |

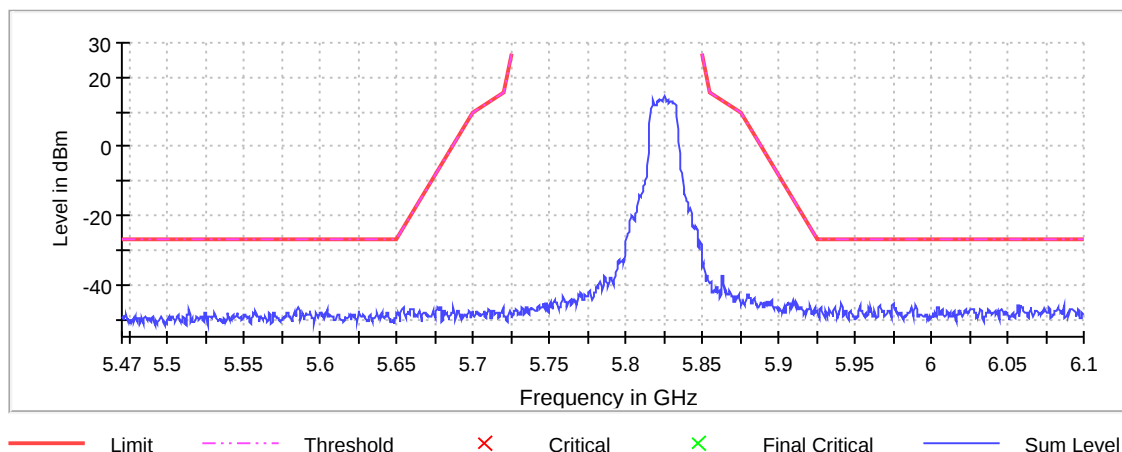
### Pre Measurements

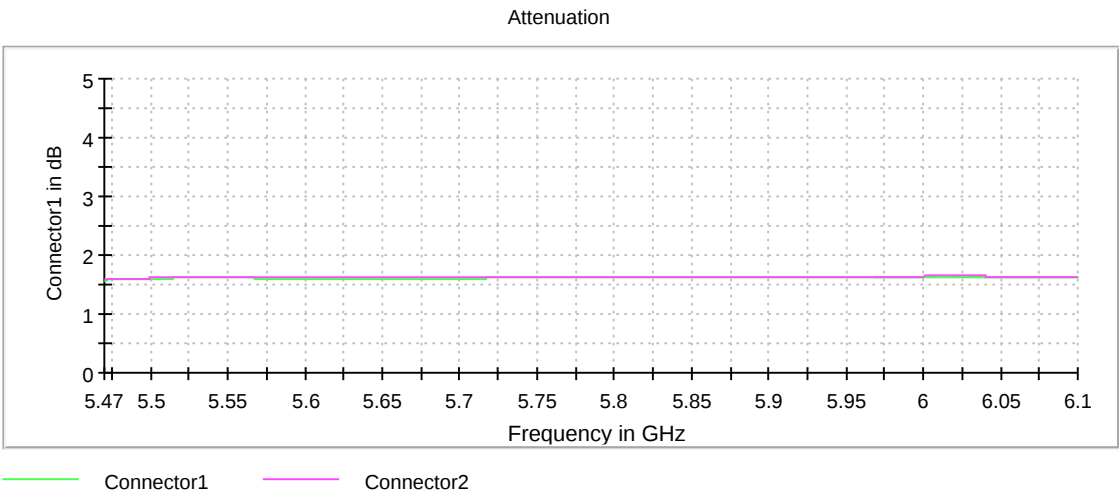
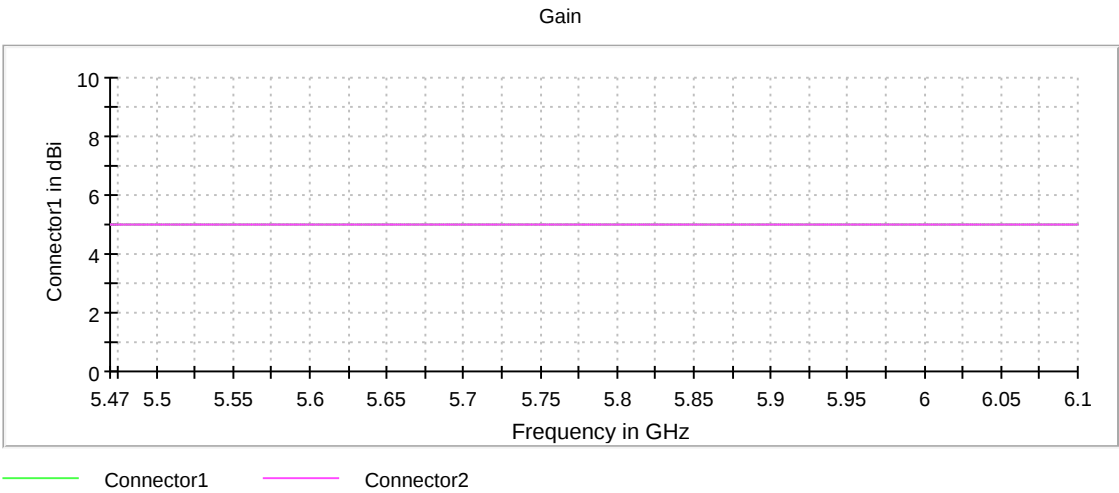
| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) |
|-----------------|-------------|-------------|-------------|
| 5941.250000     | -45.5       | 18.5        | -27.0       |
| 5975.250000     | -45.6       | 18.6        | -27.0       |
| 5989.750000     | -45.8       | 18.8        | -27.0       |
| 5990.250000     | -45.9       | 18.9        | -27.0       |
| 5974.750000     | -45.9       | 18.9        | -27.0       |
| 6056.750000     | -45.9       | 18.9        | -27.0       |
| 6057.250000     | -46.0       | 19.0        | -27.0       |
| 5966.250000     | -46.0       | 19.0        | -27.0       |
| 6086.750000     | -46.2       | 19.2        | -27.0       |
| 5953.750000     | -46.2       | 19.2        | -27.0       |
| 5953.250000     | -46.2       | 19.2        | -27.0       |
| 5940.750000     | -46.2       | 19.2        | -27.0       |
| 6058.750000     | -46.2       | 19.2        | -27.0       |
| 5941.750000     | -46.3       | 19.3        | -27.0       |
| 5585.250000     | -46.3       | 19.3        | -27.0       |

### Measurement Settings

| Start Frequency (MHz) | Stop Frequency (MHz) | Pre Measurement | Final Measurement |
|-----------------------|----------------------|-----------------|-------------------|
| 5470.000000           | 6100.000000          | 2               | 2                 |

Spurious





Emission Bandwidth 26 dB (5755 MHz; 30.000 dBm; 40 MHz)

Customized settings.

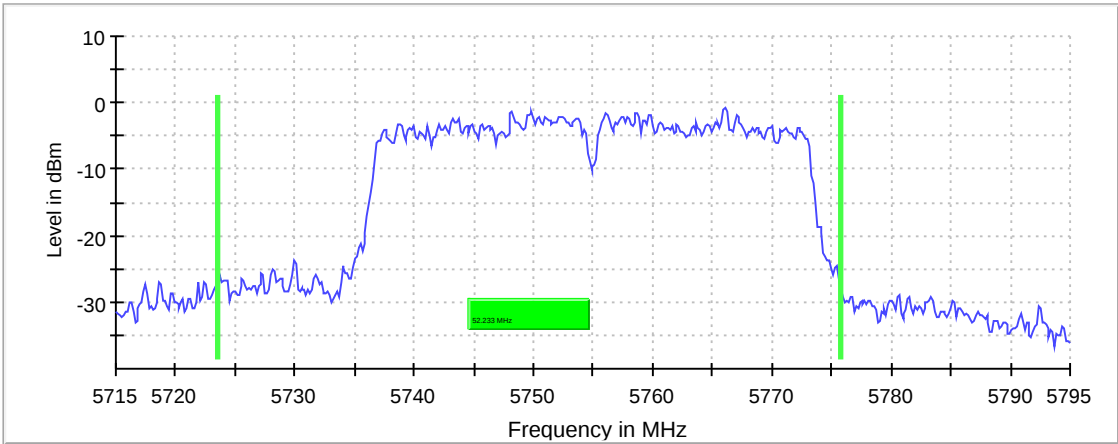
26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 5755.000000         | 52.232646       | ---             | ---             | 5723.480300          | 5775.712946           |

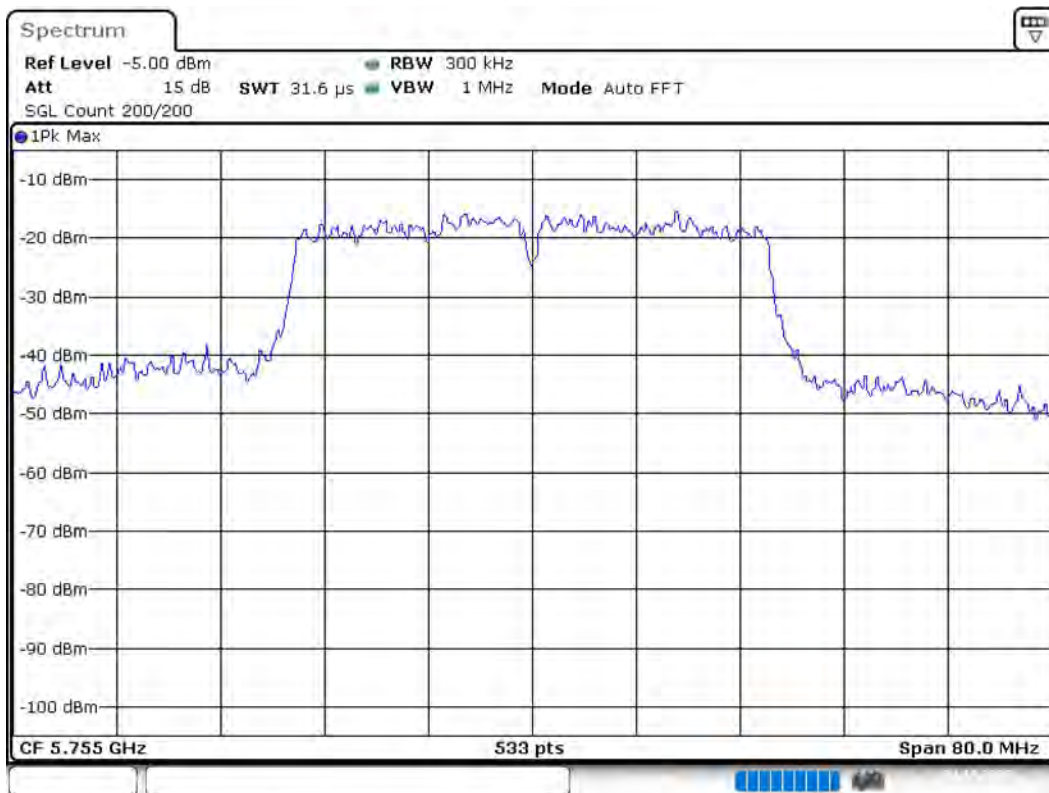
(continuation of the "26 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 5755.000000         | -0.9            | PASS   |

26 dB Bandwidth



Bandwidth



Date: 4.NOV.2020 14:43:19

Minimum Emission Bandwidth 6 dB (5755 MHz; 30.000 dBm; 40 MHz)

Customized settings.

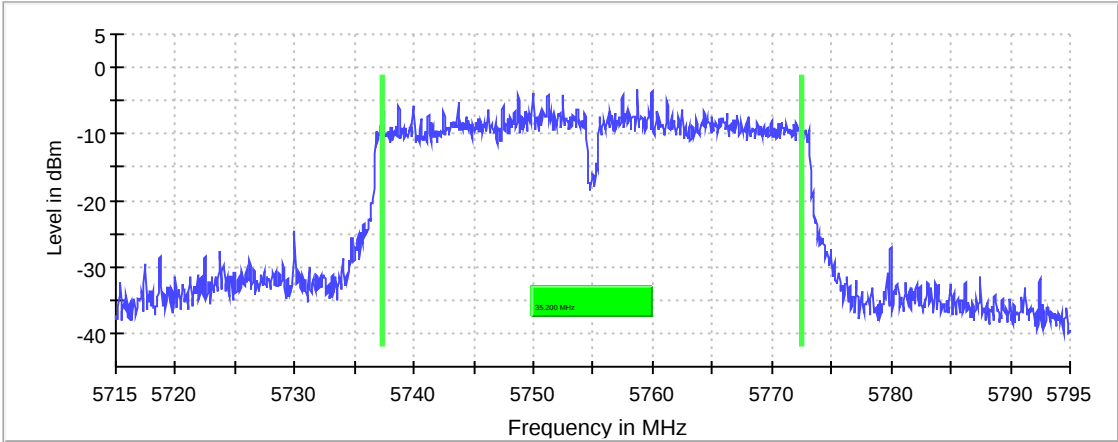
6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 5755.000000         | 35.200000       | 0.500000        | ---             | 5737.375000          | 5772.575000           |

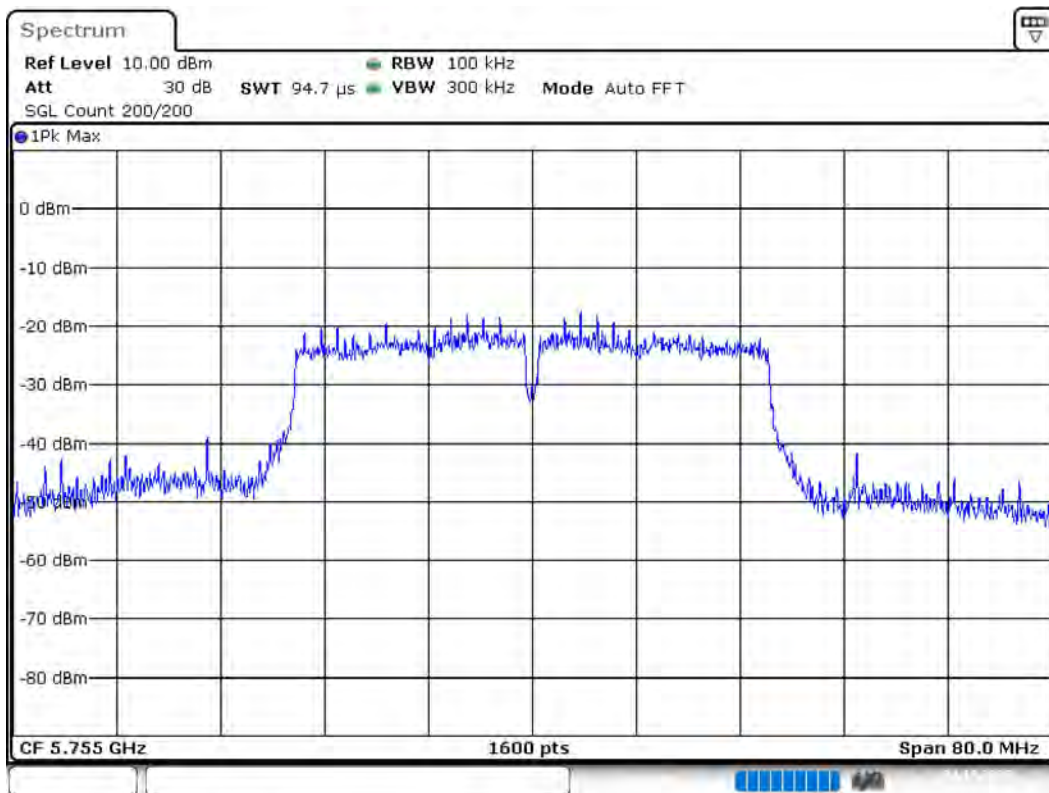
(continuation of the "6 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 5755.000000         | -3.2            | PASS   |

6 dB Bandwidth



Bandwidth



Date: 4.NOV.2020 14:44:21

## Occupied Channel Bandwidth 99% (5755 MHz; 30.000 dBm; 40 MHz)

Customized settings.

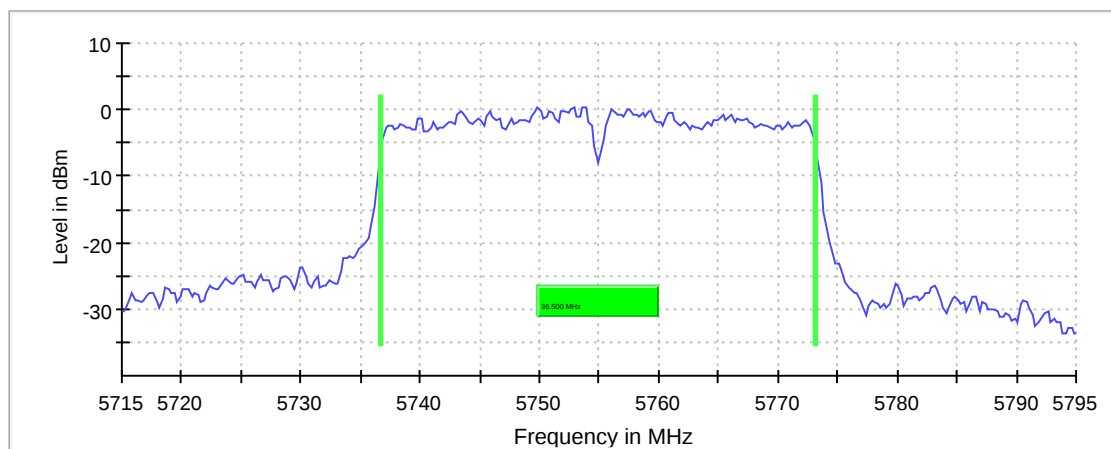
### 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 5755.000000         | 36.500000       | ---             | ---             | 5736.625000          | 5773.125000           |

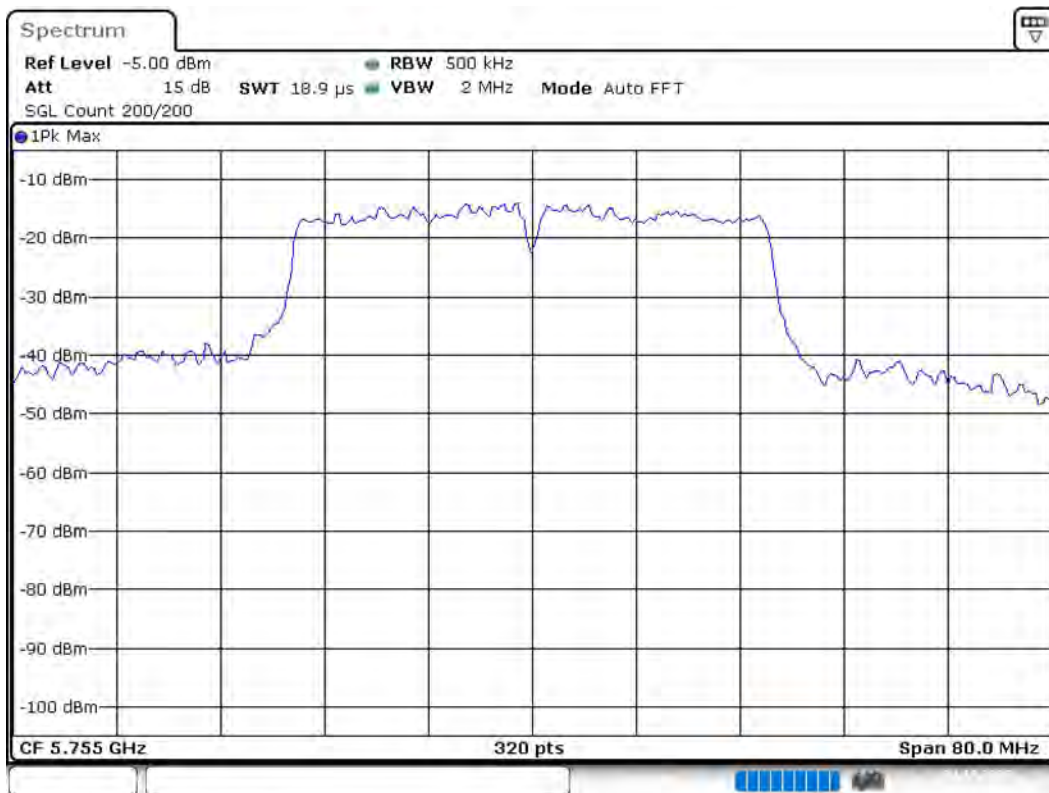
(continuation of the "99 % Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5755.000000         | PASS   |

99 % Bandwidth



Bandwidth



Date: 4.NOV.2020 14:44:30

## Tx Spurious Emission (5755 MHz; 30.000 dBm; 40 MHz)

Customized settings.

### Result

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5755.000000         | PASS   |

### Final measurements

| Frequency (MHz) | Level Pre Measurement (dBm) | level (dBm) | Limit (dBm) | Margin (dB) | Result |
|-----------------|-----------------------------|-------------|-------------|-------------|--------|
| ---             | ---                         | ---         | ---         | ---         | ---    |

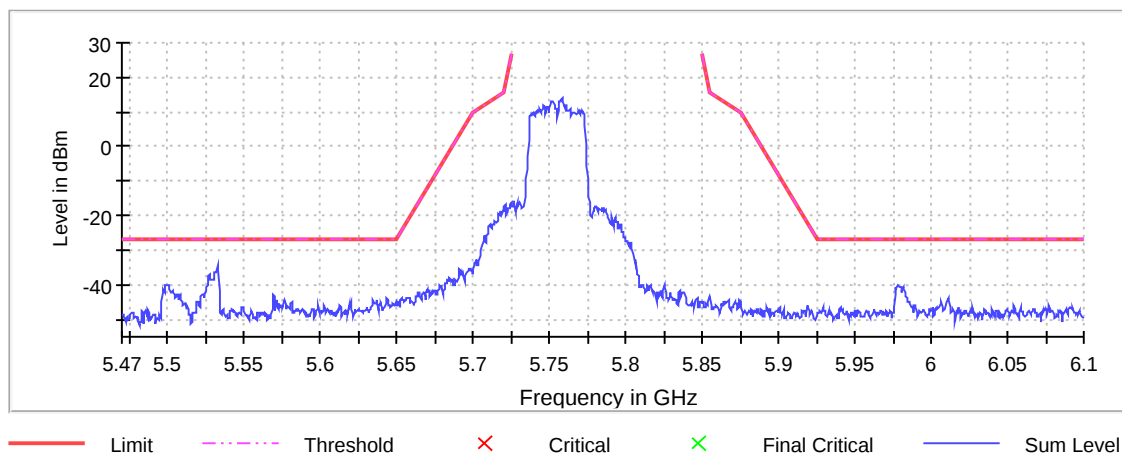
### Pre Measurements

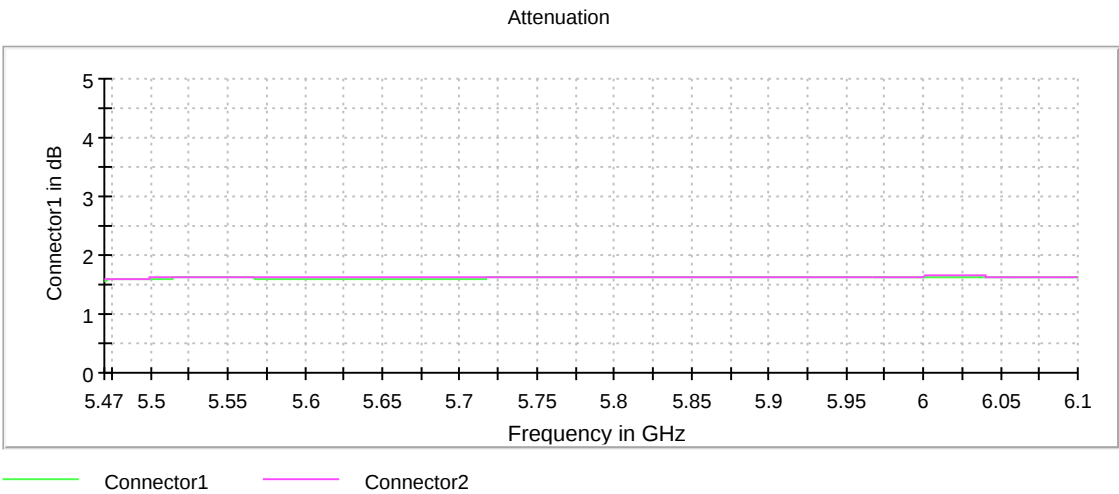
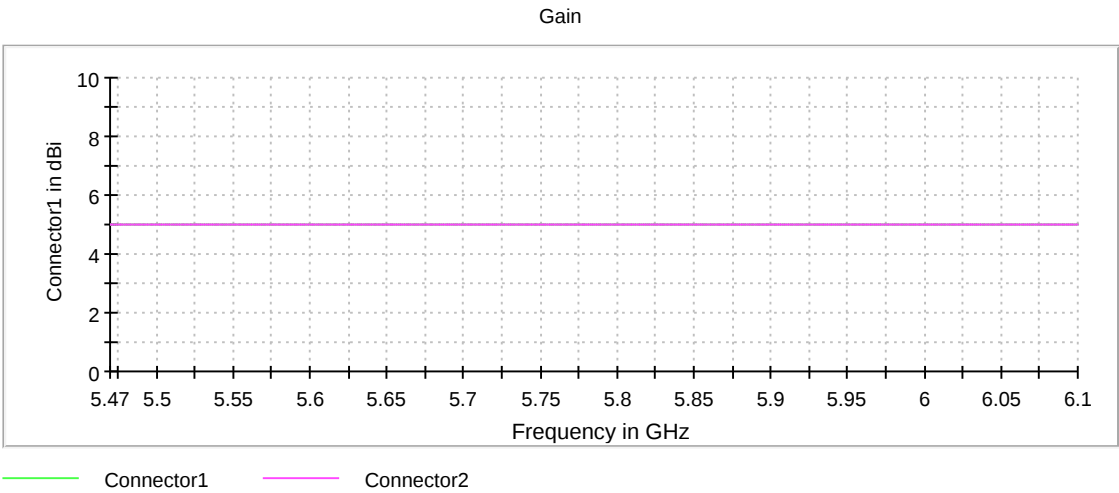
| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) |
|-----------------|-------------|-------------|-------------|
| 5532.750000     | -34.3       | 7.3         | -27.0       |
| 5532.250000     | -34.4       | 7.4         | -27.0       |
| 5533.250000     | -36.1       | 9.1         | -27.0       |
| 5530.750000     | -36.2       | 9.2         | -27.0       |
| 5531.750000     | -36.4       | 9.4         | -27.0       |
| 5531.250000     | -36.4       | 9.4         | -27.0       |
| 5527.250000     | -36.7       | 9.7         | -27.0       |
| 5530.250000     | -36.9       | 9.9         | -27.0       |
| 5526.750000     | -37.2       | 10.2        | -27.0       |
| 5527.750000     | -37.6       | 10.6        | -27.0       |
| 5529.250000     | -38.4       | 11.4        | -27.0       |
| 5529.750000     | -38.4       | 11.4        | -27.0       |
| 5528.750000     | -38.5       | 11.5        | -27.0       |
| 5528.250000     | -38.7       | 11.7        | -27.0       |
| 5977.750000     | -39.9       | 12.9        | -27.0       |

### Measurement Settings

| Start Frequency (MHz) | Stop Frequency (MHz) | Pre Measurement | Final Measurement |
|-----------------------|----------------------|-----------------|-------------------|
| 5470.000000           | 6100.000000          | 2               | 2                 |

Spurious





Emission Bandwidth 26 dB (5775 MHz; 30.000 dBm; 40 MHz)

Customized settings.

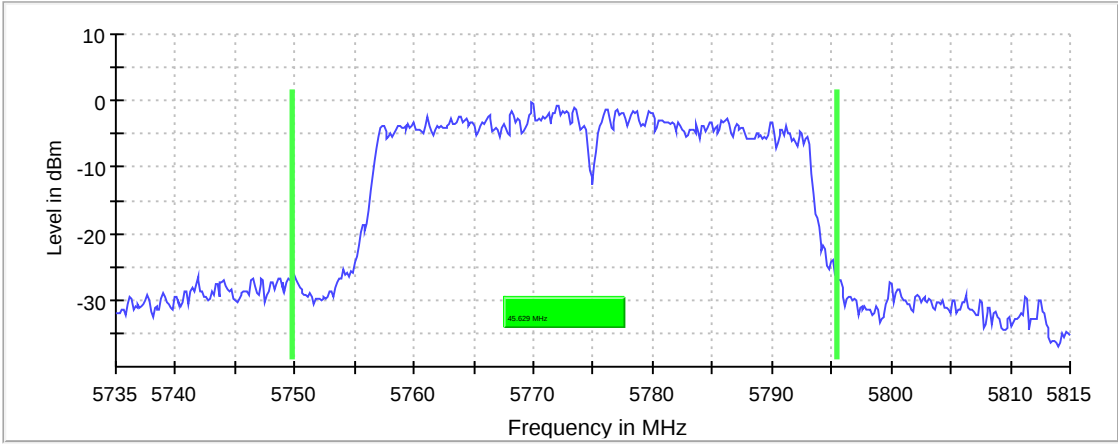
26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 5775.000000         | 45.628518       | ---             | ---             | 5749.784240          | 5795.412758           |

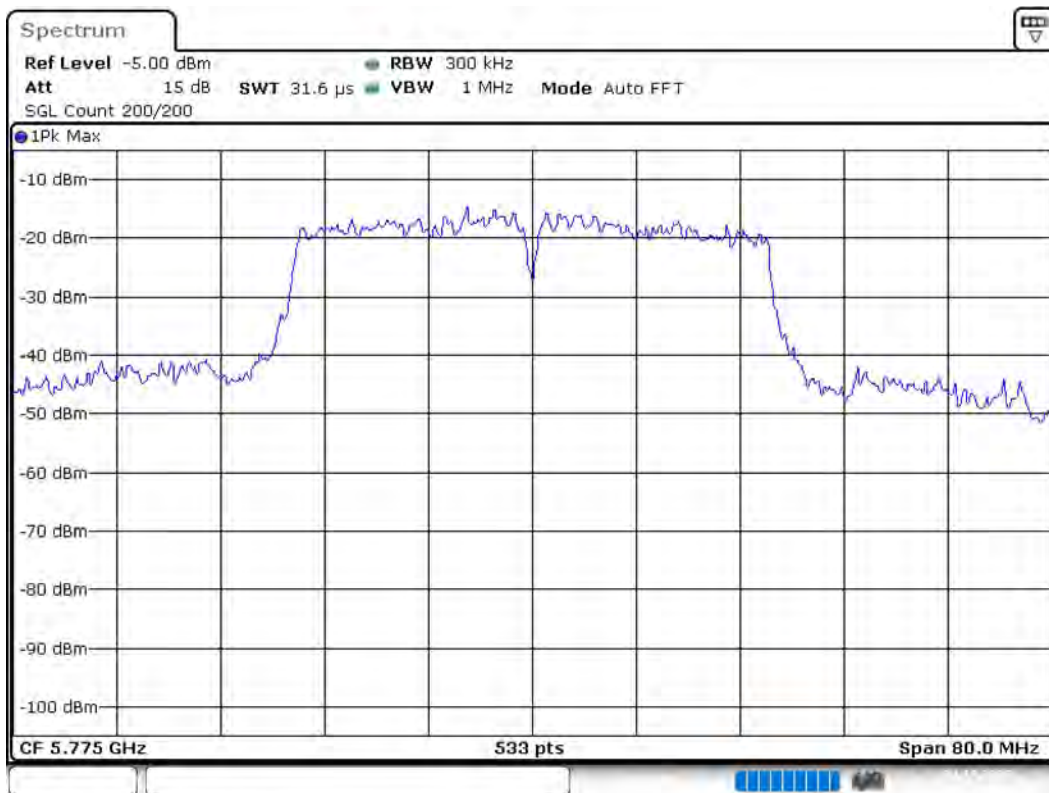
(continuation of the "26 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 5775.000000         | -0.3            | PASS   |

26 dB Bandwidth



Bandwidth



Date: 4.NOV.2020 15:06:43

Minimum Emission Bandwidth 6 dB (5775 MHz; 30.000 dBm; 40 MHz)

Customized settings.

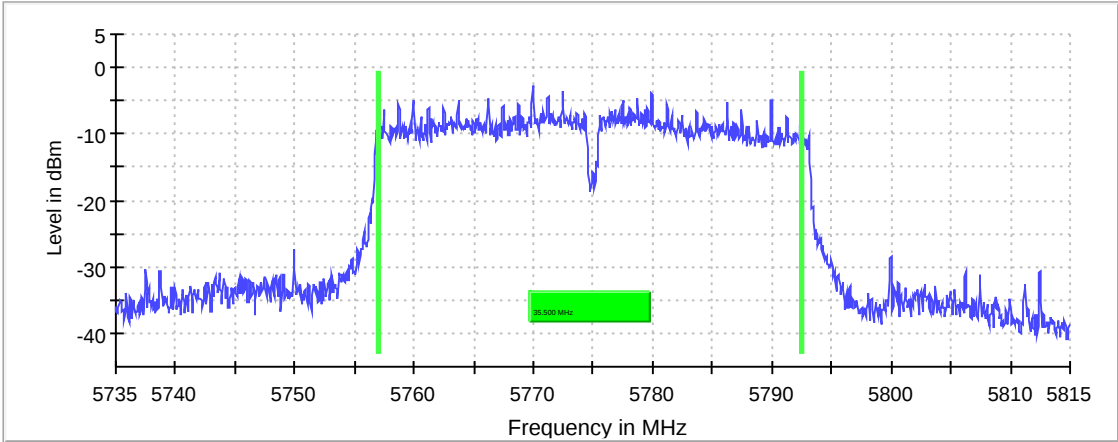
6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 5775.000000         | 35.500000       | 0.500000        | ---             | 5757.025000          | 5792.525000           |

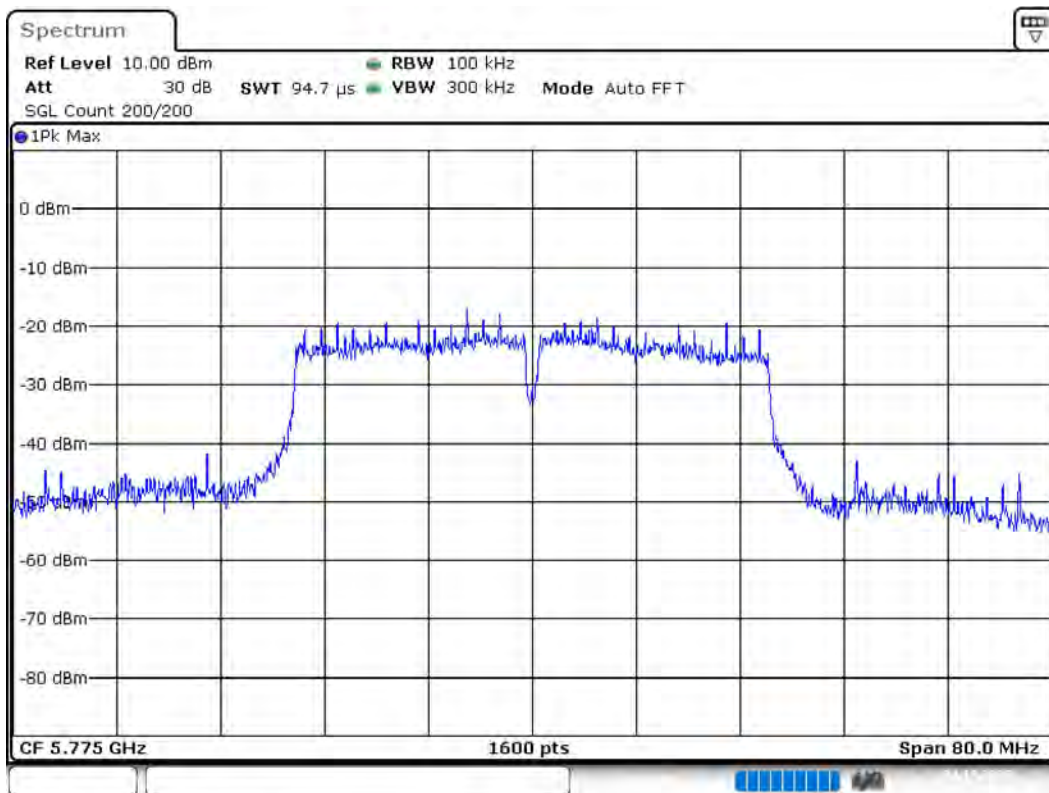
(continuation of the "6 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 5775.000000         | -2.6            | PASS   |

6 dB Bandwidth



Bandwidth



Date: 4.NOV.2020 15:07:43

Occupied Channel Bandwidth 99% (5775 MHz; 30.000 dBm; 40 MHz)

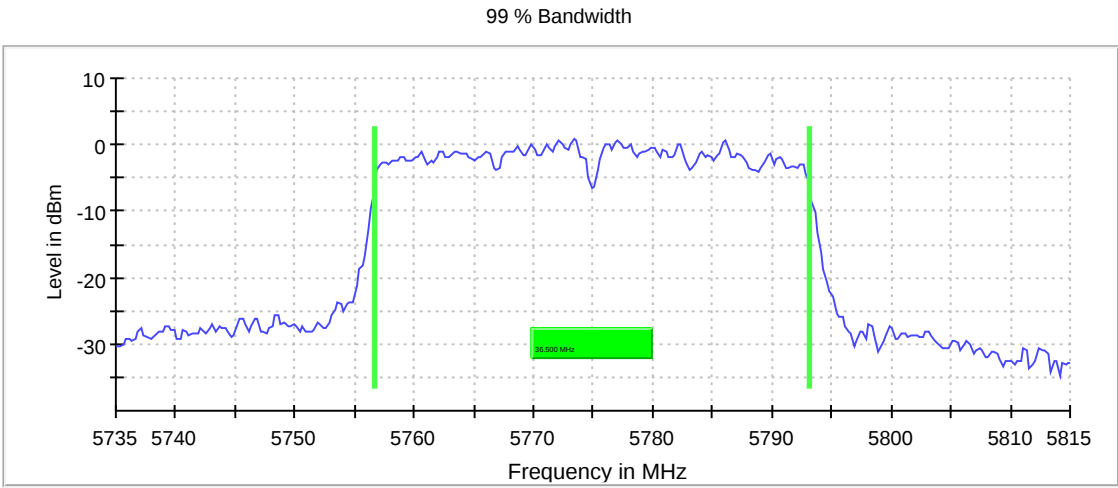
Customized settings.

99 % Bandwidth

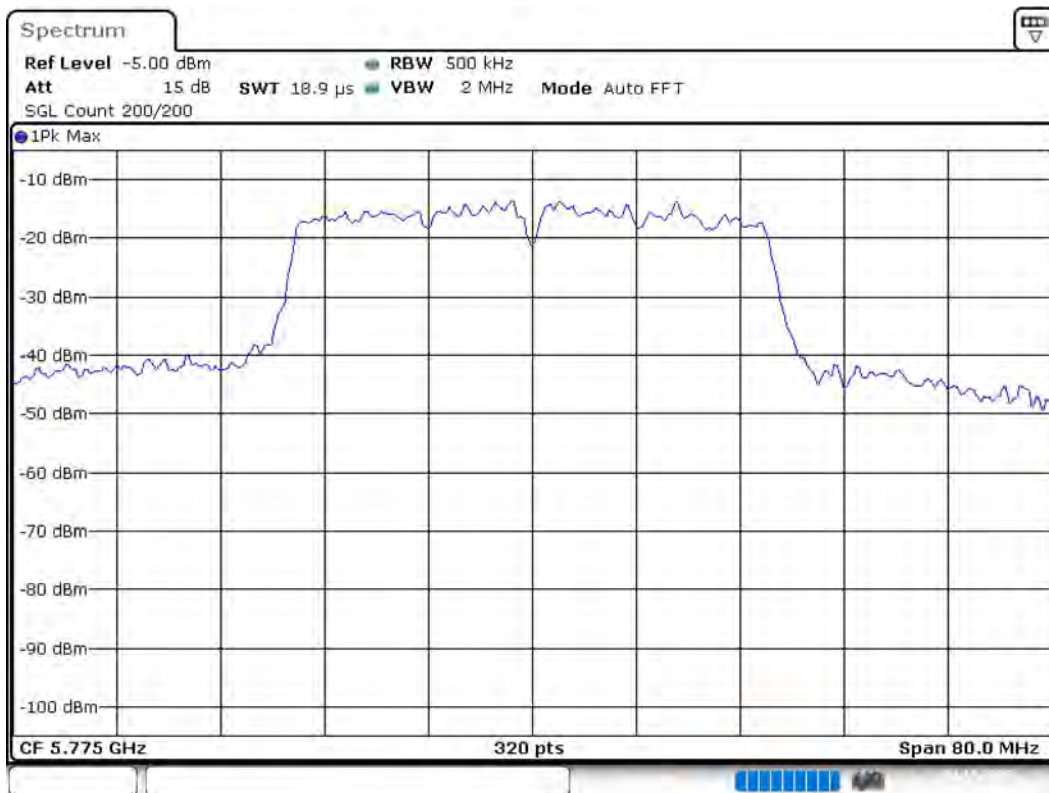
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 5775.000000         | 36.500000       | ---             | ---             | 5756.625000          | 5793.125000           |

(continuation of the "99 % Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5775.000000         | PASS   |



Bandwidth



Date: 4.NOV.2020 15:07:52

## Tx Spurious Emission (5775 MHz; 30.000 dBm; 40 MHz)

Customized settings.

### Result

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5775.000000         | PASS   |

### Final measurements

| Frequency (MHz) | Level Pre Measurement (dBm) | level (dBm) | Limit (dBm) | Margin (dB) | Result |
|-----------------|-----------------------------|-------------|-------------|-------------|--------|
| ---             | ---                         | ---         | ---         | ---         | ---    |

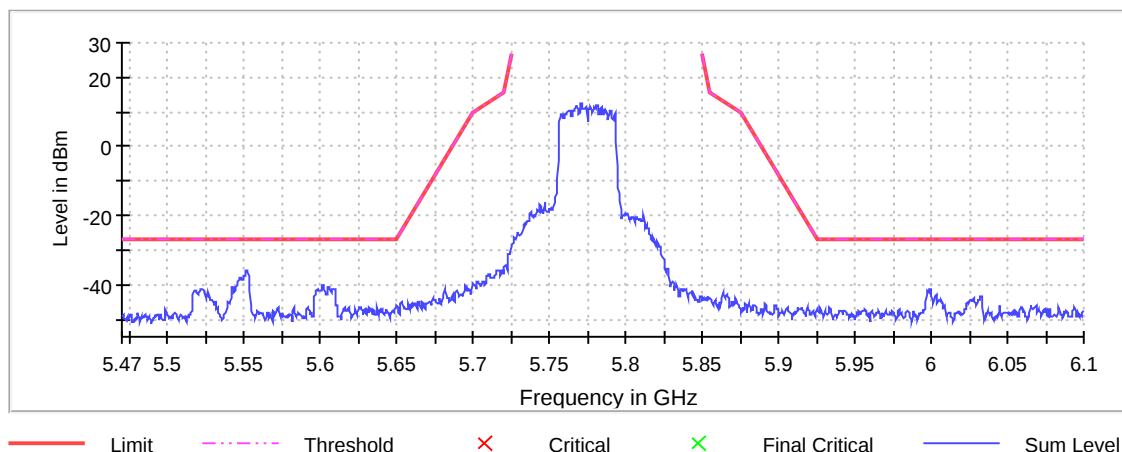
### Pre Measurements

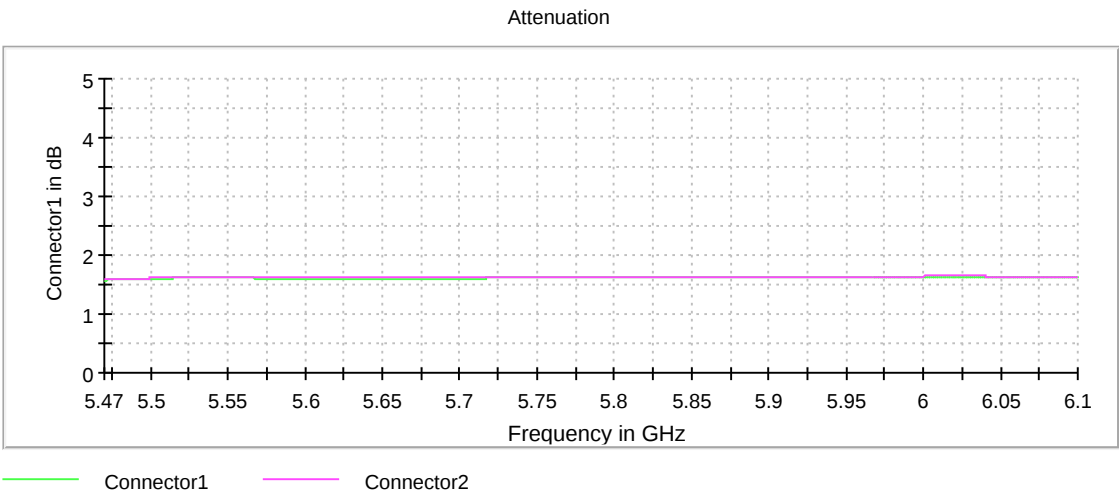
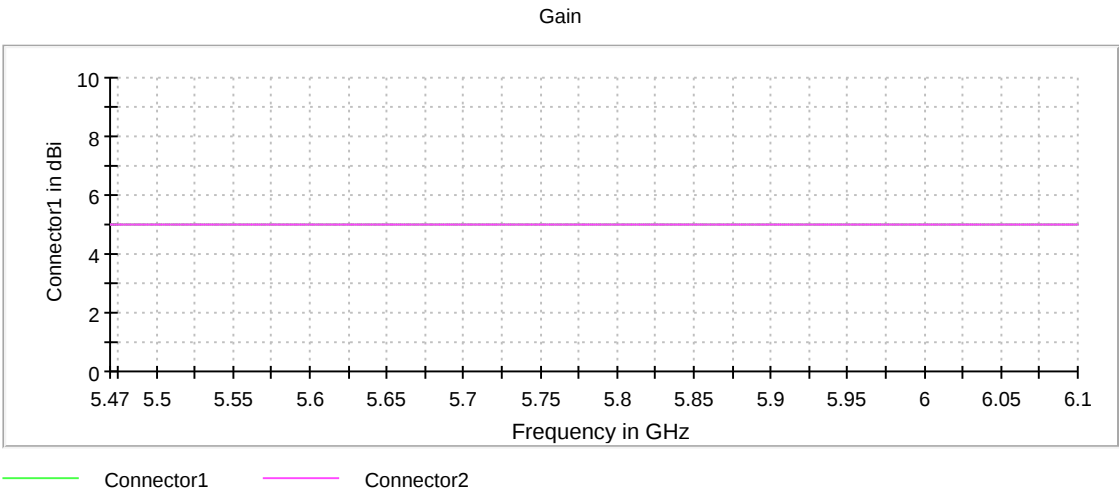
| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) |
|-----------------|-------------|-------------|-------------|
| 5551.250000     | -35.9       | 8.9         | -27.0       |
| 5551.750000     | -35.9       | 8.9         | -27.0       |
| 5552.750000     | -36.2       | 9.2         | -27.0       |
| 5552.250000     | -36.4       | 9.4         | -27.0       |
| 5550.750000     | -36.9       | 9.9         | -27.0       |
| 5550.250000     | -37.2       | 10.2        | -27.0       |
| 5553.250000     | -37.6       | 10.6        | -27.0       |
| 5549.750000     | -37.6       | 10.6        | -27.0       |
| 5547.750000     | -37.8       | 10.8        | -27.0       |
| 5547.250000     | -38.1       | 11.1        | -27.0       |
| 5548.250000     | -38.1       | 11.1        | -27.0       |
| 5549.250000     | -38.3       | 11.3        | -27.0       |
| 5548.750000     | -38.4       | 11.4        | -27.0       |
| 5546.750000     | -38.7       | 11.7        | -27.0       |
| 5546.250000     | -39.3       | 12.3        | -27.0       |

### Measurement Settings

| Start Frequency (MHz) | Stop Frequency (MHz) | Pre Measurement | Final Measurement |
|-----------------------|----------------------|-----------------|-------------------|
| 5470.000000           | 6100.000000          | 2               | 2                 |

Spurious





Emission Bandwidth 26 dB (5795 MHz; 30.000 dBm; 40 MHz)

Customized settings.

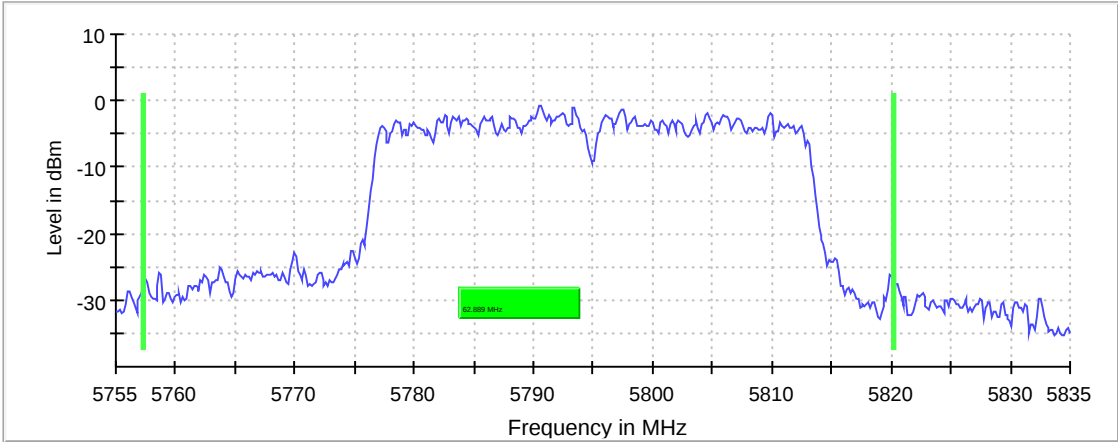
26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 5795.000000         | 62.889306       | ---             | ---             | 5757.326454          | 5820.215760           |

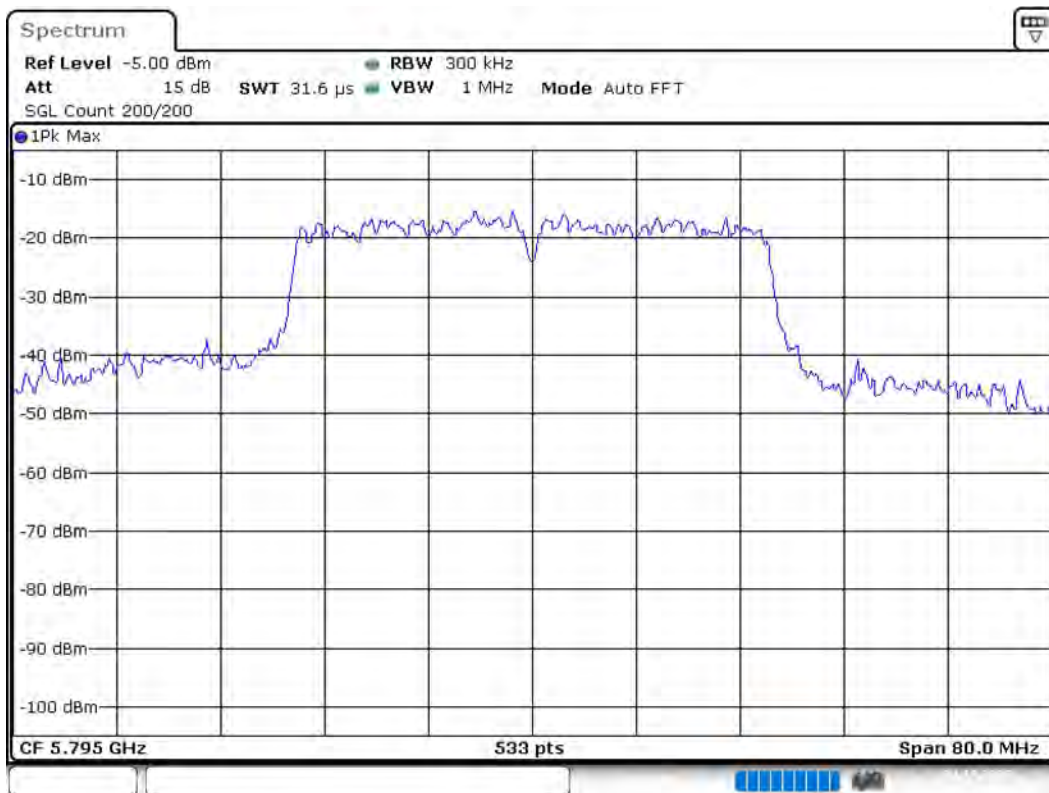
(continuation of the "26 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 5795.000000         | -0.7            | PASS   |

26 dB Bandwidth



Bandwidth



Date: 4.NOV.2020 15:09:12

Minimum Emission Bandwidth 6 dB (5795 MHz; 30.000 dBm; 40 MHz)

Customized settings.

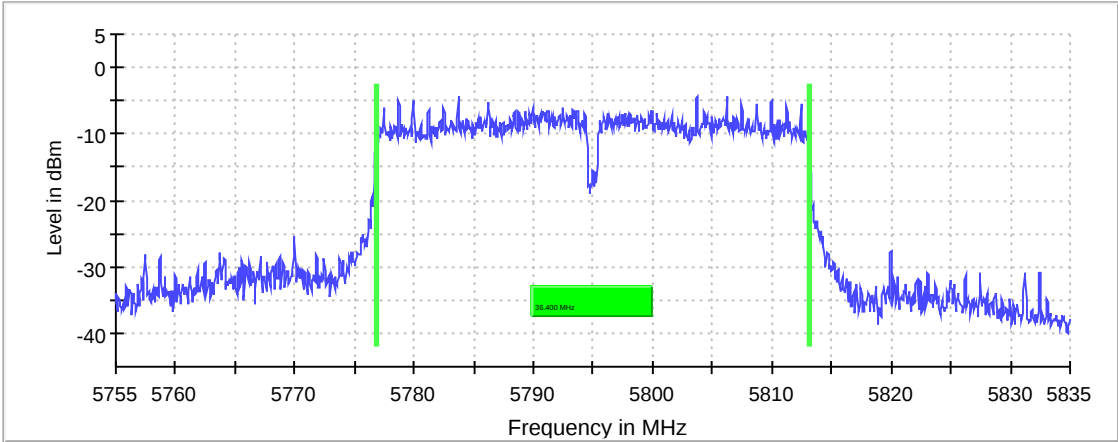
6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 5795.000000         | 36.400000       | 0.500000        | ---             | 5776.775000          | 5813.175000           |

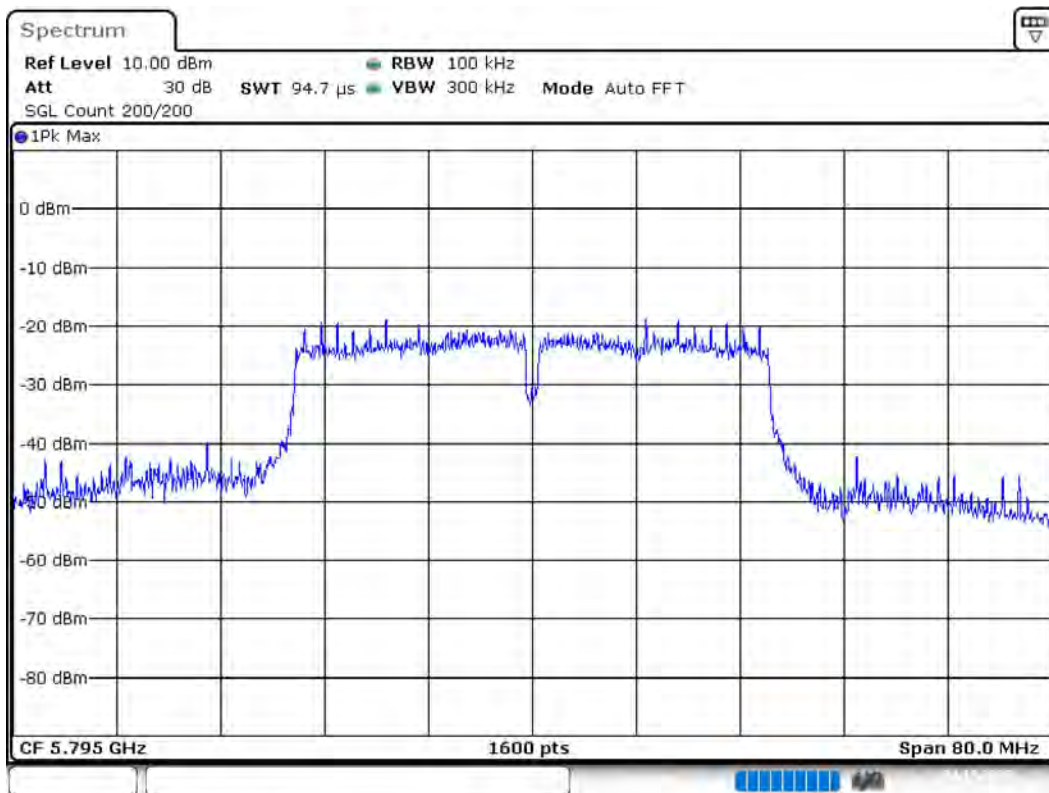
(continuation of the "6 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 5795.000000         | -4.4            | PASS   |

6 dB Bandwidth



Bandwidth



Date: 4.NOV.2020 15:10:15

Occupied Channel Bandwidth 99% (5795 MHz; 30.000 dBm; 40 MHz)

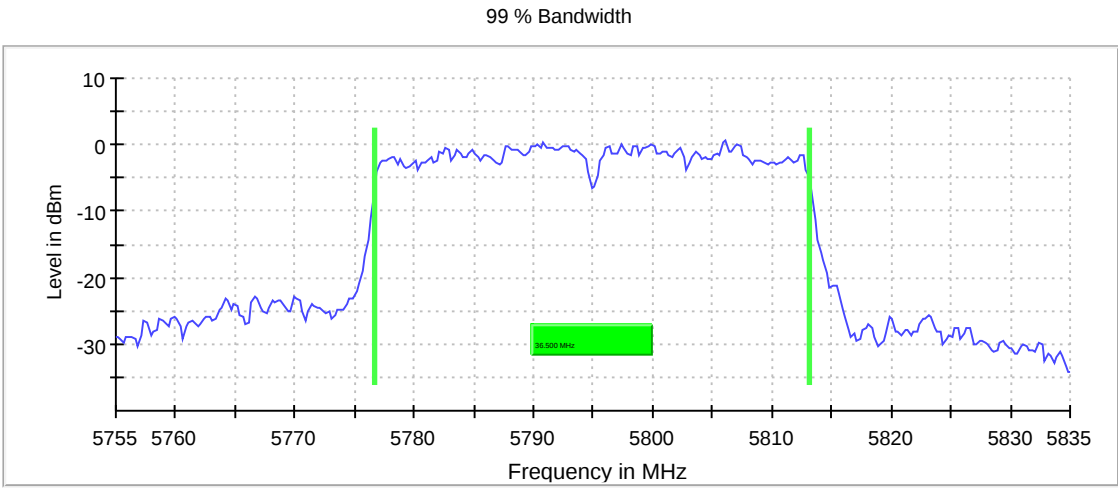
Customized settings.

99 % Bandwidth

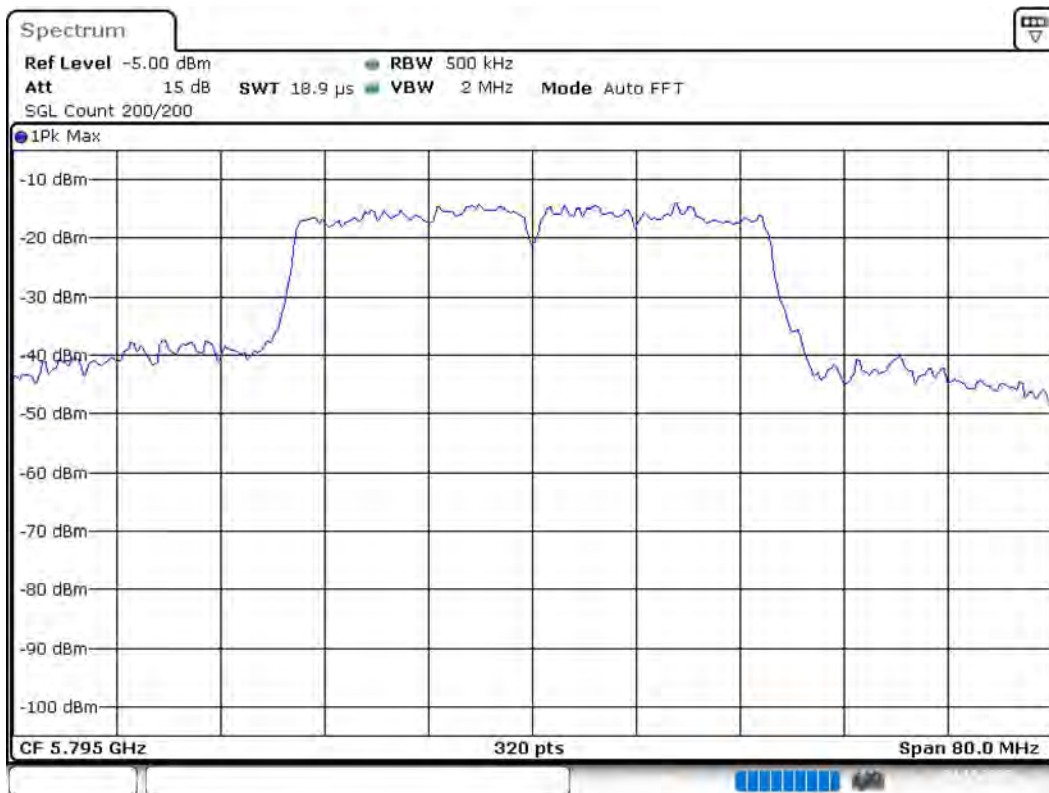
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 5795.000000         | 36.500000       | ---             | ---             | 5776.625000          | 5813.125000           |

(continuation of the "99 % Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5795.000000         | PASS   |



Bandwidth



Date: 4.NOV.2020 15:10:23

## Tx Spurious Emission (5795 MHz; 30.000 dBm; 40 MHz)

Customized settings.

### Result

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5795.000000         | PASS   |

### Final measurements

| Frequency (MHz) | Level Pre Measurement (dBm) | level (dBm) | Limit (dBm) | Margin (dB) | Result |
|-----------------|-----------------------------|-------------|-------------|-------------|--------|
| ---             | ---                         | ---         | ---         | ---         | ---    |

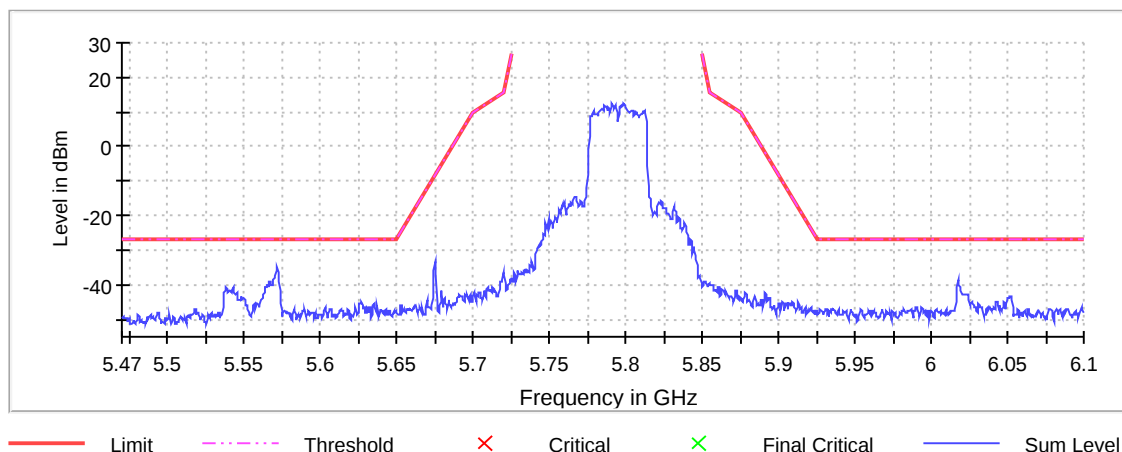
### Pre Measurements

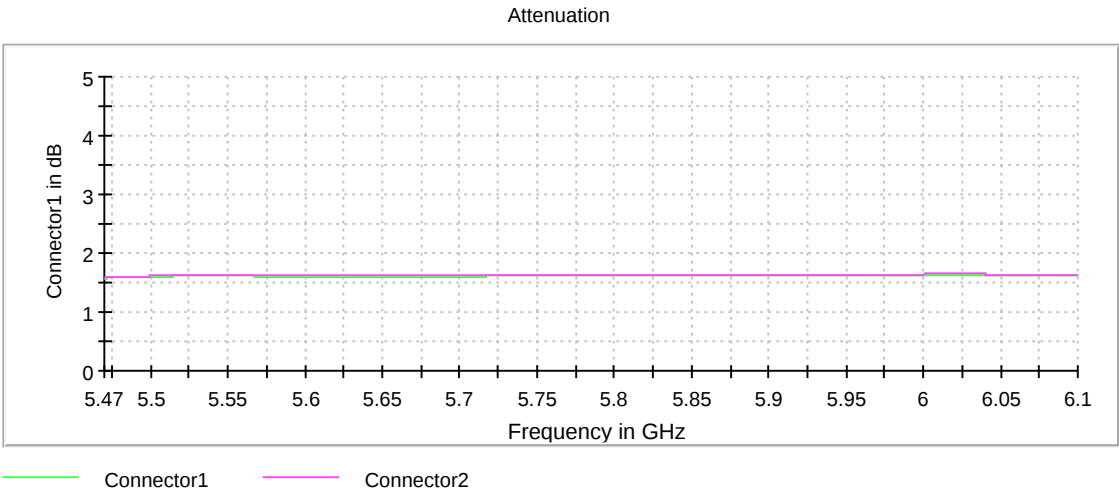
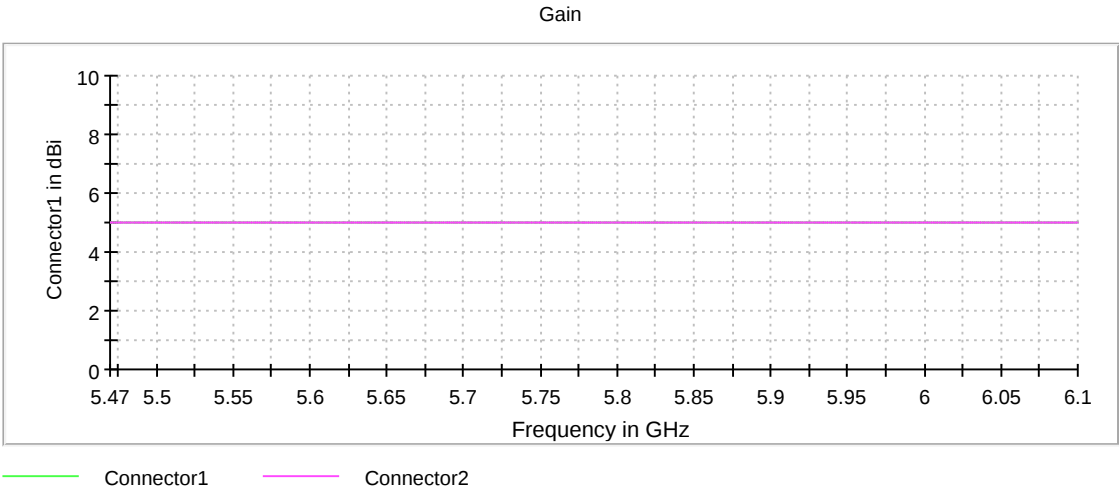
| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) |
|-----------------|-------------|-------------|-------------|
| 5571.250000     | -34.8       | 7.8         | -27.0       |
| 5571.750000     | -35.0       | 8.0         | -27.0       |
| 5570.750000     | -36.0       | 9.0         | -27.0       |
| 5572.250000     | -36.6       | 9.6         | -27.0       |
| 5570.250000     | -37.7       | 10.7        | -27.0       |
| 5572.750000     | -37.7       | 10.7        | -27.0       |
| 5569.750000     | -38.2       | 11.2        | -27.0       |
| 5569.250000     | -38.3       | 11.3        | -27.0       |
| 6017.250000     | -38.7       | 11.7        | -27.0       |
| 6017.750000     | -38.7       | 11.7        | -27.0       |
| 5567.250000     | -38.8       | 11.8        | -27.0       |
| 5568.750000     | -38.8       | 11.8        | -27.0       |
| 5573.250000     | -39.0       | 12.0        | -27.0       |
| 5566.750000     | -39.2       | 12.2        | -27.0       |
| 5565.250000     | -40.0       | 13.0        | -27.0       |

### Measurement Settings

| Start Frequency (MHz) | Stop Frequency (MHz) | Pre Measurement | Final Measurement |
|-----------------------|----------------------|-----------------|-------------------|
| 5470.000000           | 6100.000000          | 2               | 2                 |

Spurious





Emission Bandwidth 26 dB (5775 MHz; 30.000 dBm; 80 MHz)

Customized settings.

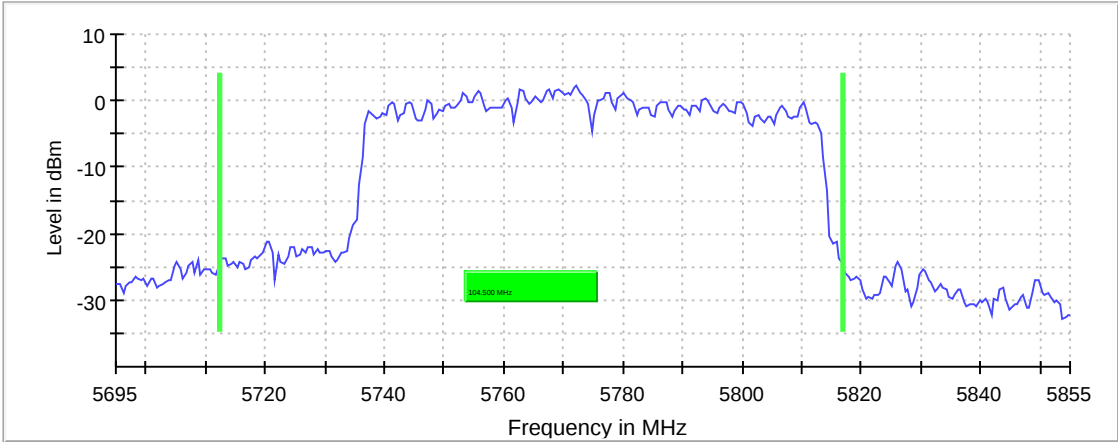
26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 5775.000000         | 104.500000      | ---             | ---             | 5712.250000          | 5816.750000           |

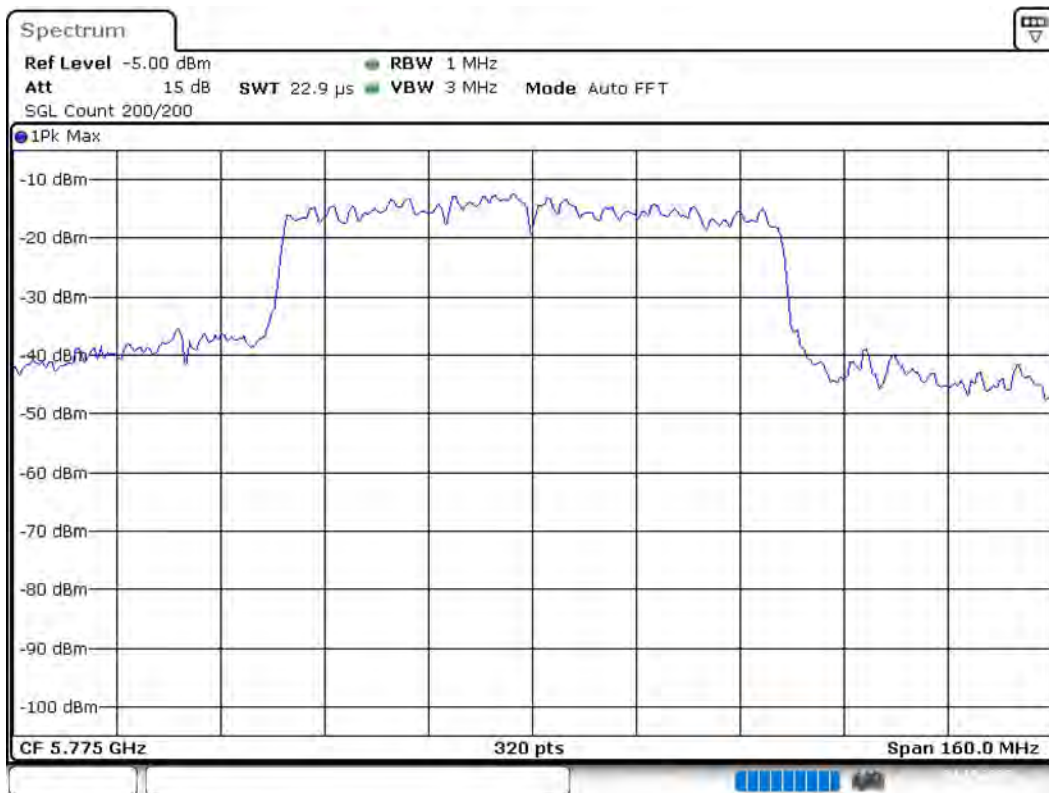
(continuation of the "26 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 5775.000000         | 2.1             | PASS   |

26 dB Bandwidth



Bandwidth



Date: 4.NOV.2020 15:14:13

Minimum Emission Bandwidth 6 dB (5775 MHz; 30.000 dBm; 80 MHz)

Customized settings.

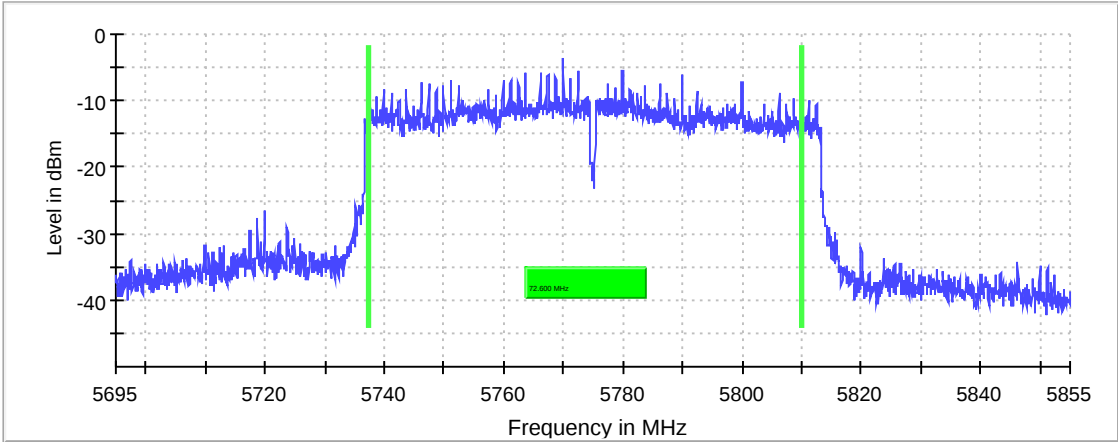
6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 5775.000000         | 72.600000       | 0.500000        | ---             | 5737.425000          | 5810.025000           |

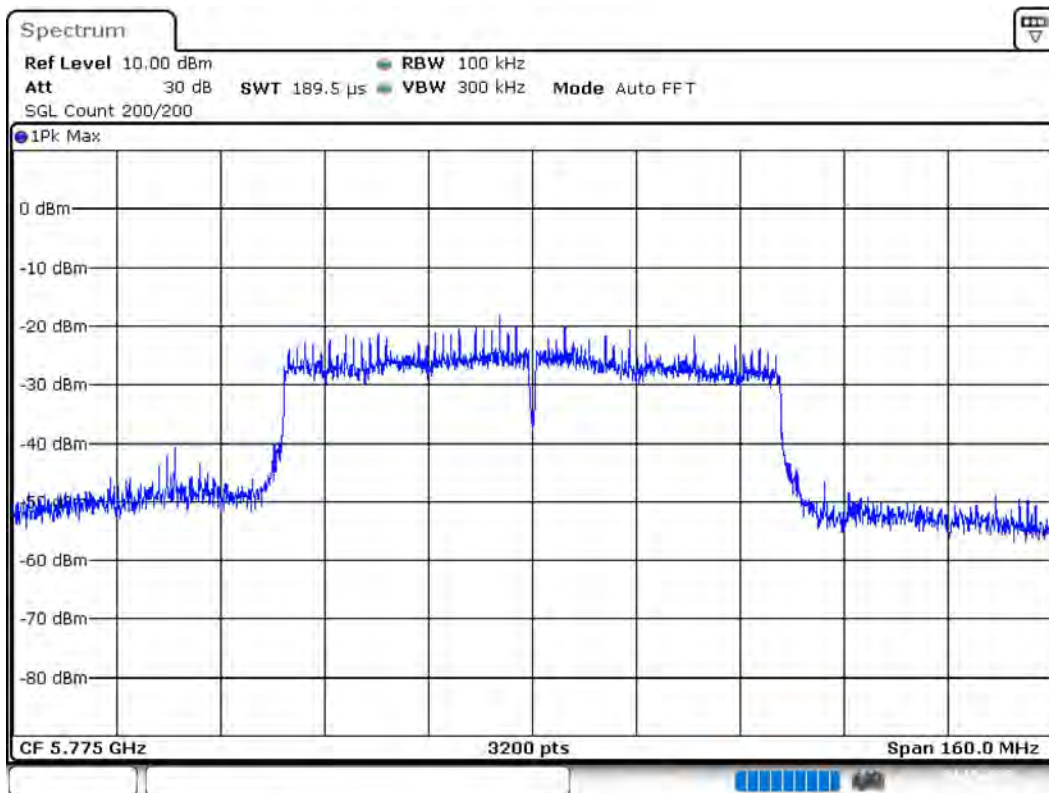
(continuation of the "6 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 5775.000000         | -3.7            | PASS   |

6 dB Bandwidth



Bandwidth



Date: 4.NOV.2020 15:15:26

Occupied Channel Bandwidth 99% (5775 MHz; 30.000 dBm; 80 MHz)

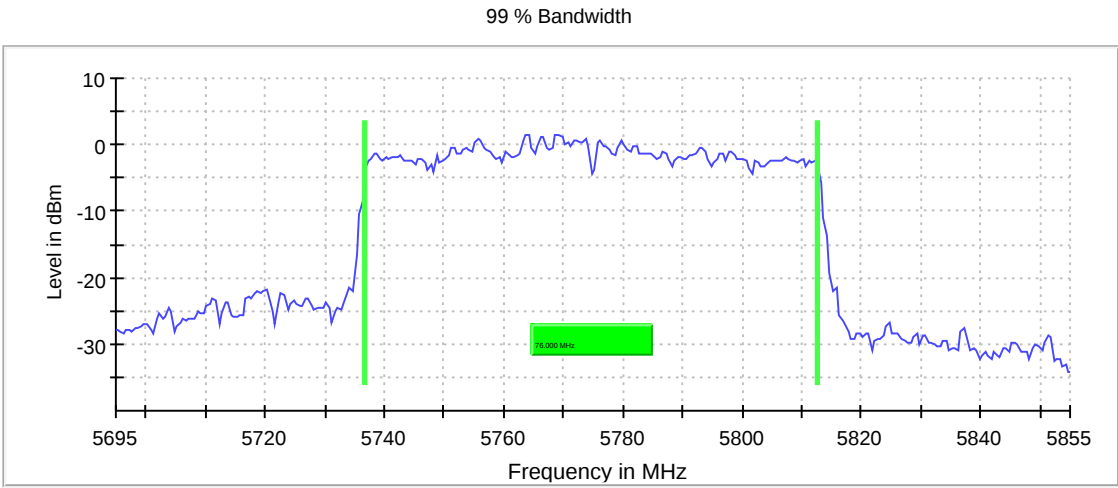
Customized settings.

99 % Bandwidth

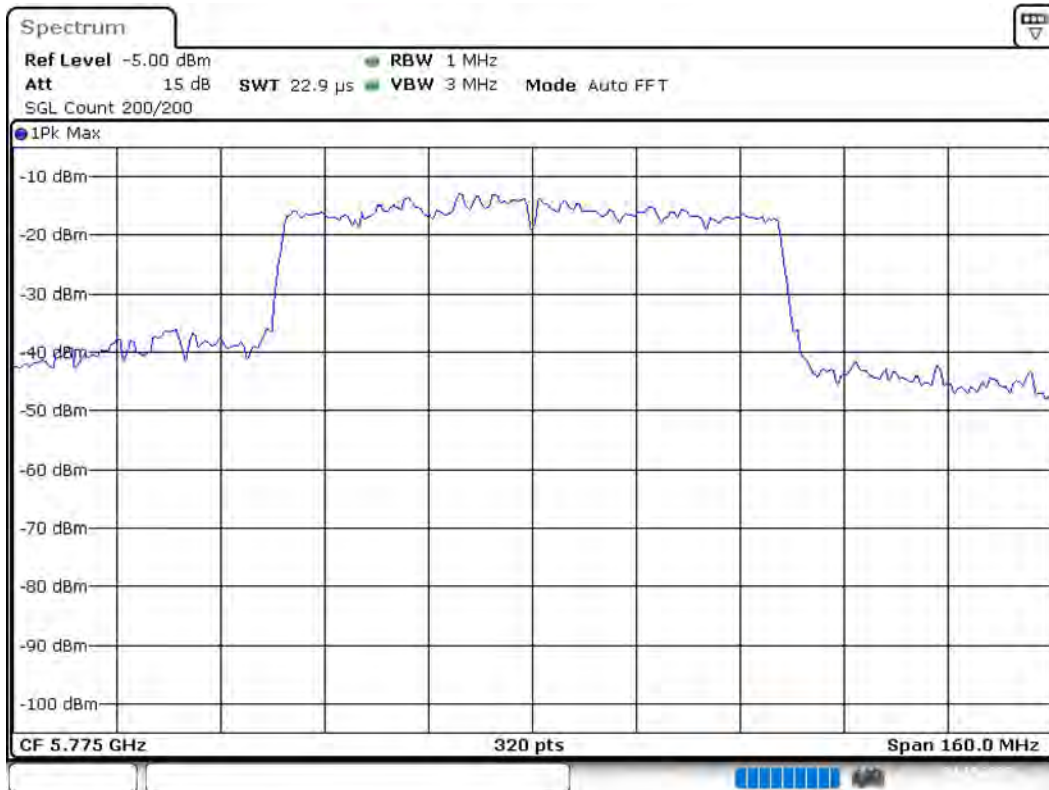
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 5775.000000         | 76.000000       | ---             | ---             | 5736.750000          | 5812.750000           |

(continuation of the "99 % Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5775.000000         | PASS   |



Bandwidth



Date: 4.NOV.2020 15:15:37

## Tx Spurious Emission (5775 MHz; 30.000 dBm; 80 MHz)

Customized settings.

### Result

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5775.000000         | PASS   |

### Final measurements

| Frequency (MHz) | Level Pre Measurement (dBm) | level (dBm) | Limit (dBm) | Margin (dB) | Result |
|-----------------|-----------------------------|-------------|-------------|-------------|--------|
| ---             | ---                         | ---         | ---         | ---         | ---    |

### Pre Measurements

| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) |
|-----------------|-------------|-------------|-------------|
| 5631.250000     | -33.9       | 6.9         | -27.0       |
| 5630.750000     | -33.9       | 6.9         | -27.0       |
| 5647.750000     | -34.3       | 7.3         | -27.0       |
| 5647.250000     | -34.6       | 7.6         | -27.0       |
| 5642.750000     | -34.8       | 7.8         | -27.0       |
| 5648.250000     | -35.0       | 8.0         | -27.0       |
| 5630.250000     | -35.3       | 8.3         | -27.0       |
| 5631.750000     | -35.4       | 8.4         | -27.0       |
| 5643.250000     | -35.4       | 8.4         | -27.0       |
| 5633.750000     | -35.5       | 8.5         | -27.0       |
| 5628.750000     | -35.5       | 8.5         | -27.0       |
| 5633.250000     | -35.6       | 8.6         | -27.0       |
| 5628.250000     | -35.6       | 8.6         | -27.0       |
| 5642.250000     | -35.9       | 8.9         | -27.0       |
| 5634.250000     | -36.0       | 9.0         | -27.0       |

### Measurement Settings

| Start Frequency (MHz) | Stop Frequency (MHz) | Pre Measurement | Final Measurement |
|-----------------------|----------------------|-----------------|-------------------|
| 5470.000000           | 6100.000000          | 2               | 2                 |

Spurious

