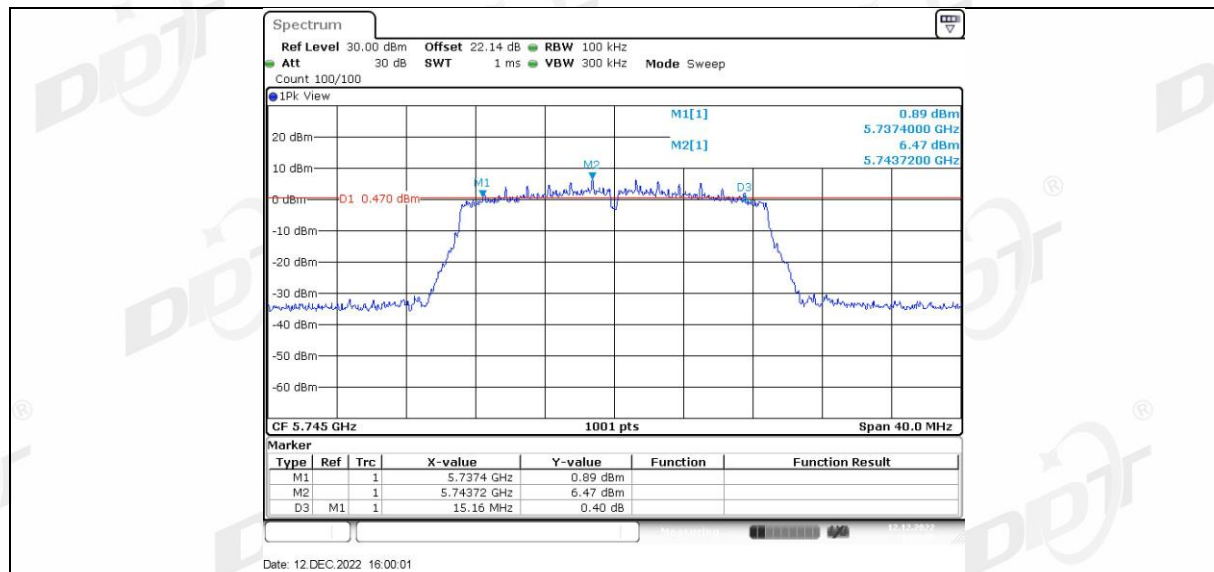
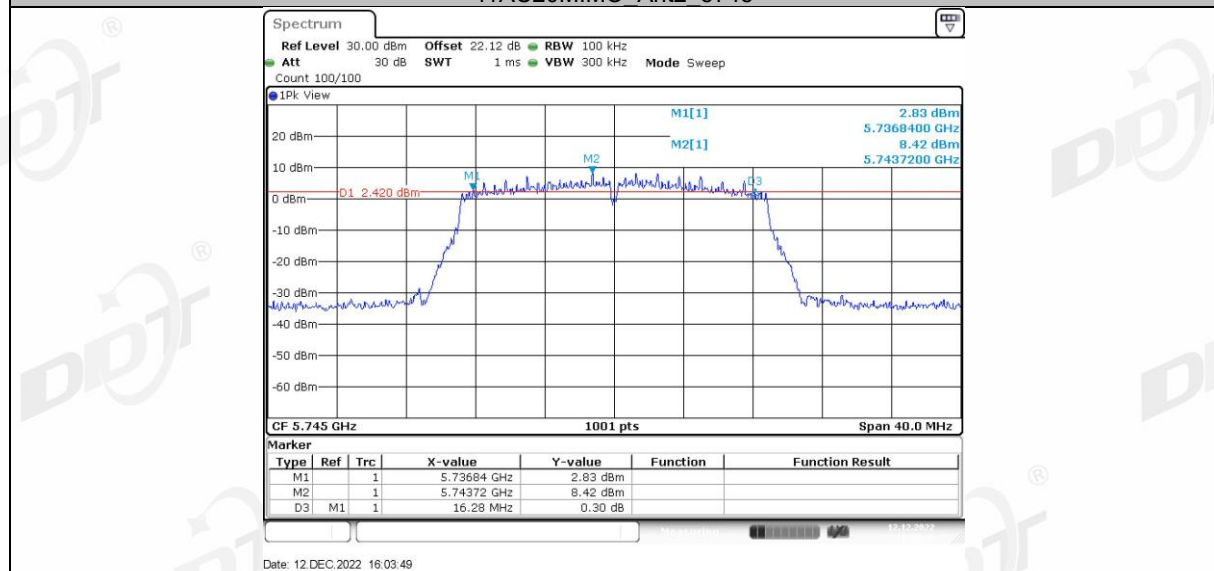
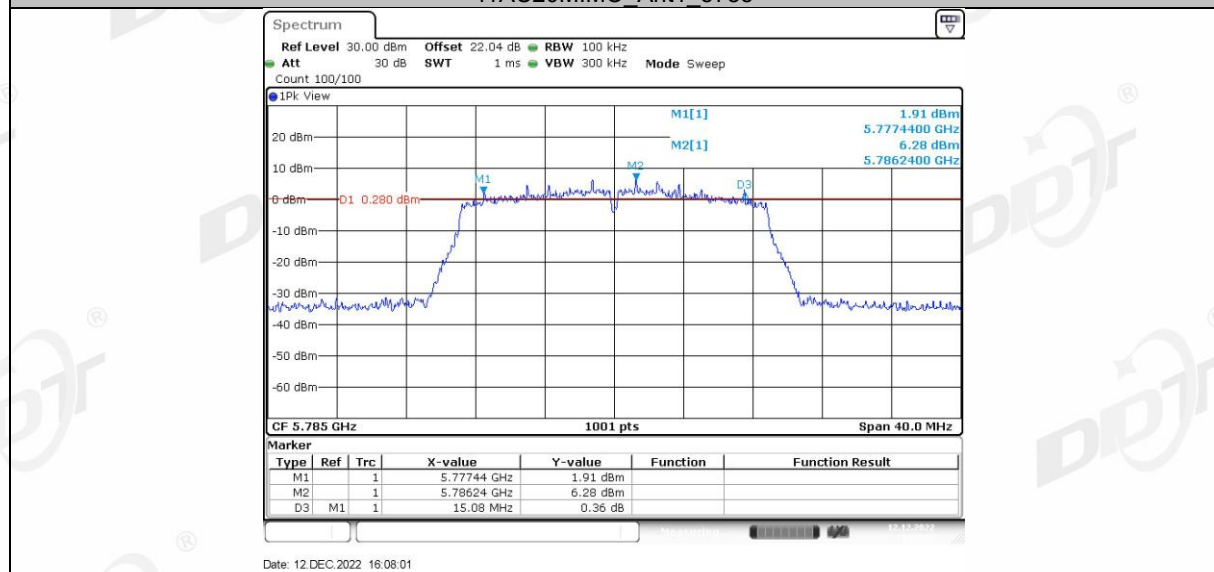




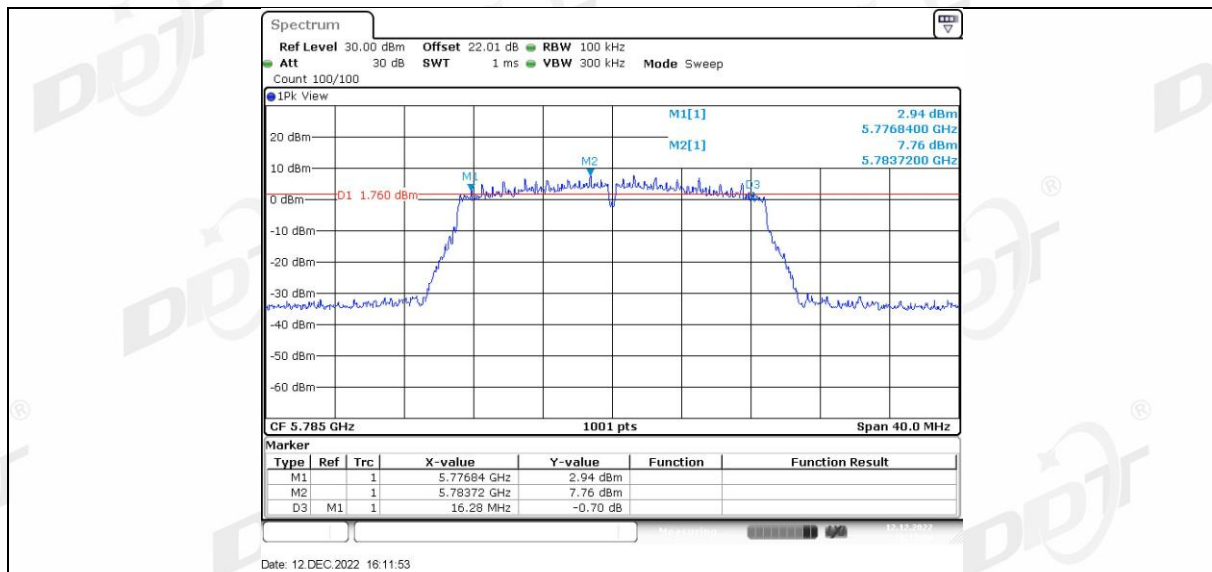
## 11AC20MIMO\_Ant2\_5745



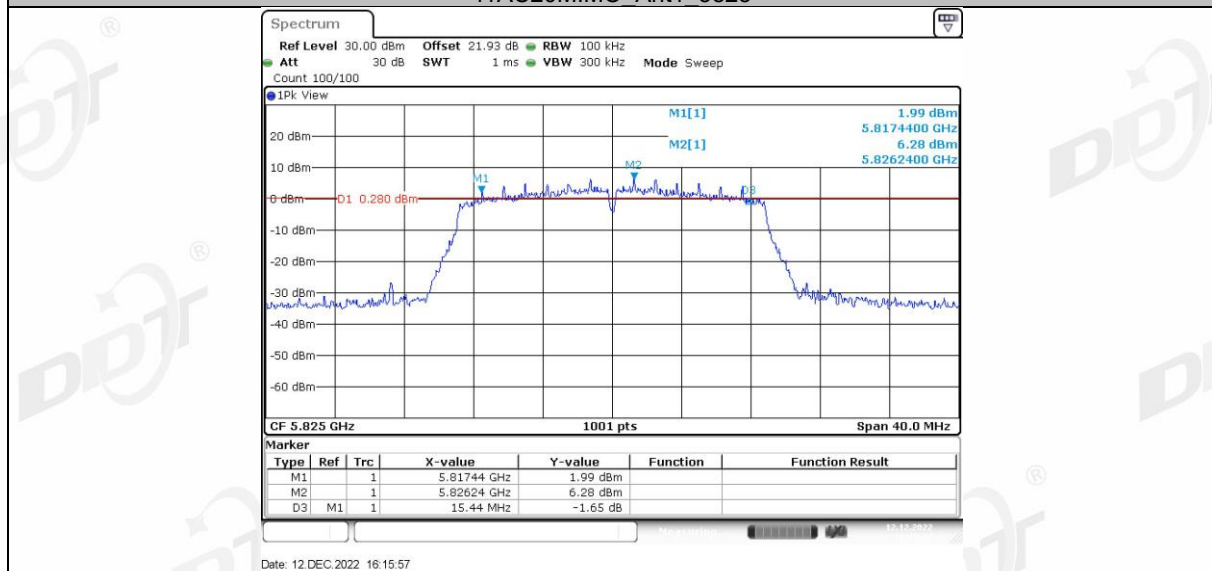
## 11AC20MIMO\_Ant1\_5785



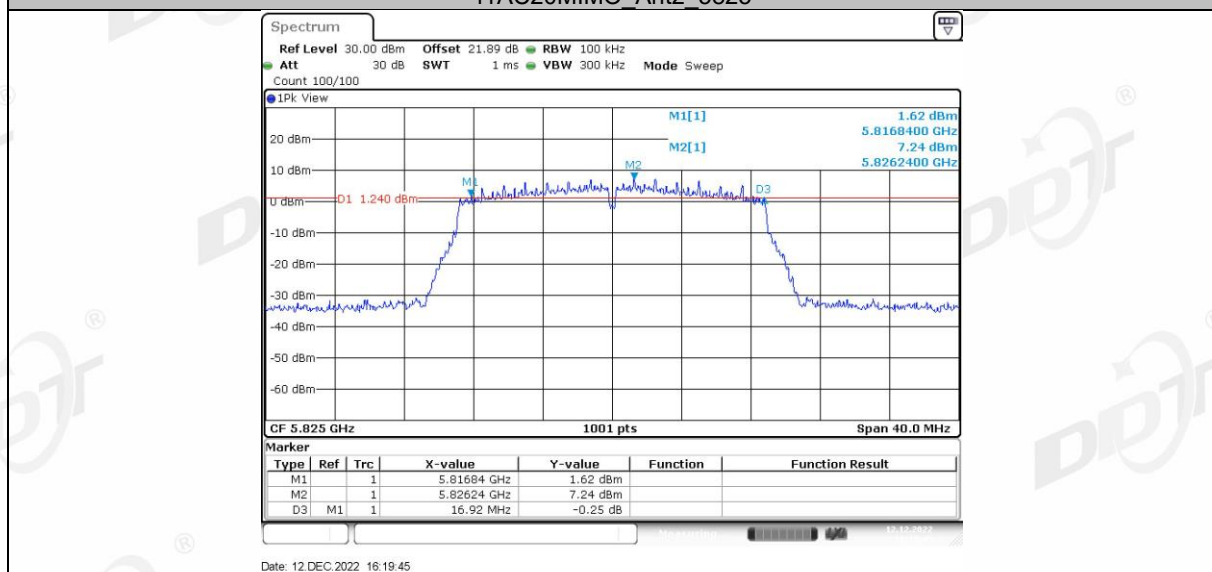
## 11AC20MIMO\_Ant2\_5785



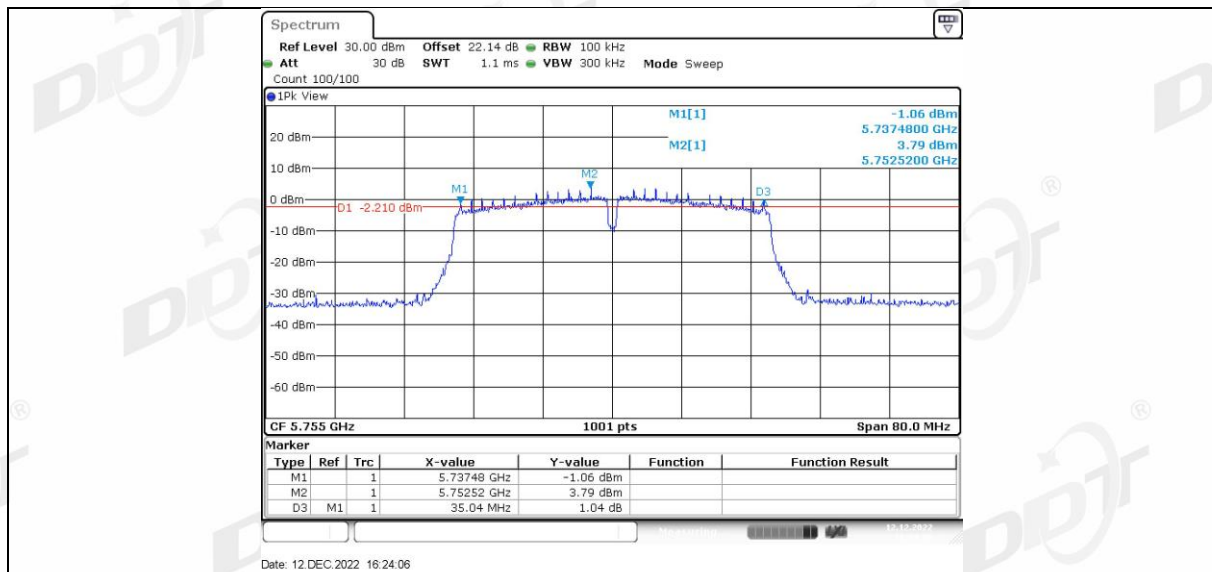
## 11AC20MIMO Ant1\_5825



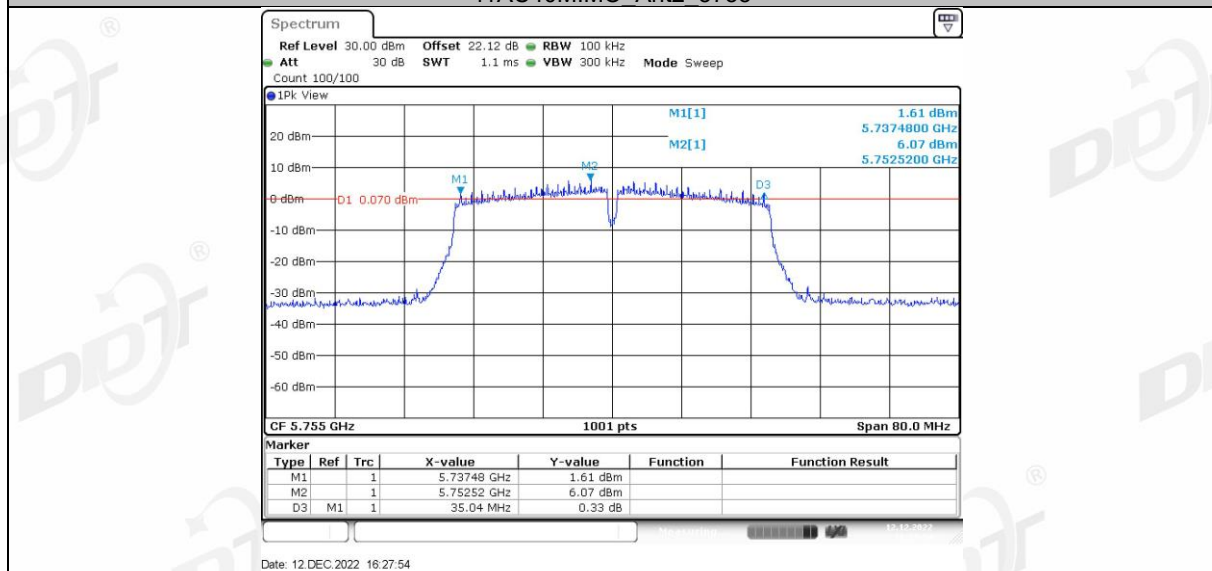
## 11AC20MIMO Ant2\_5825



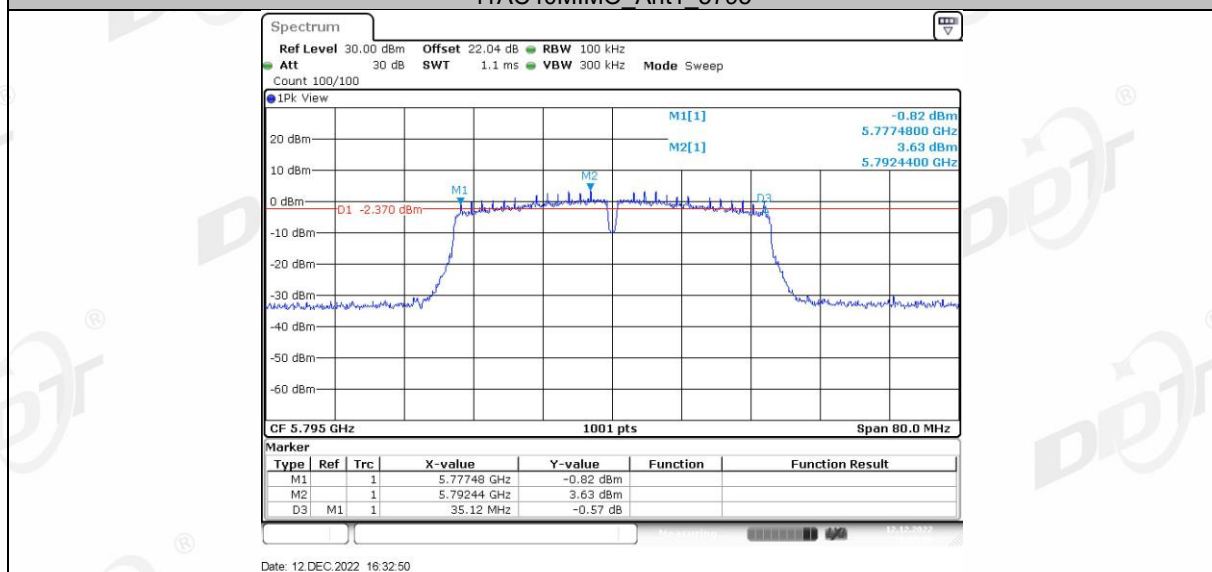
## 11AC40MIMO Ant1\_5755



11AC40MIMO\_Ant2\_5755



11AC40MIMO\_Ant1\_5795

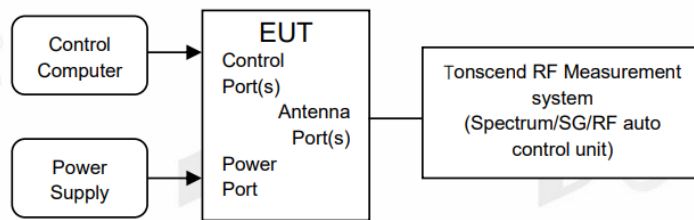


11AC40MIMO\_Ant2\_5795



## 6. 99% Bandwidth

### 6.1. Block diagram of test setup



### 6.2. Limits

Just for Report.

### 6.3. Test procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

|                  |                                                |
|------------------|------------------------------------------------|
| Center Frequency | The center frequency of the channel under test |
| Detector         | Peak                                           |
| RBW              | 1% to 5% of the OBW                            |
| VBW              | approximately three times the RBW              |
| Trace            | Max hold                                       |

Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.

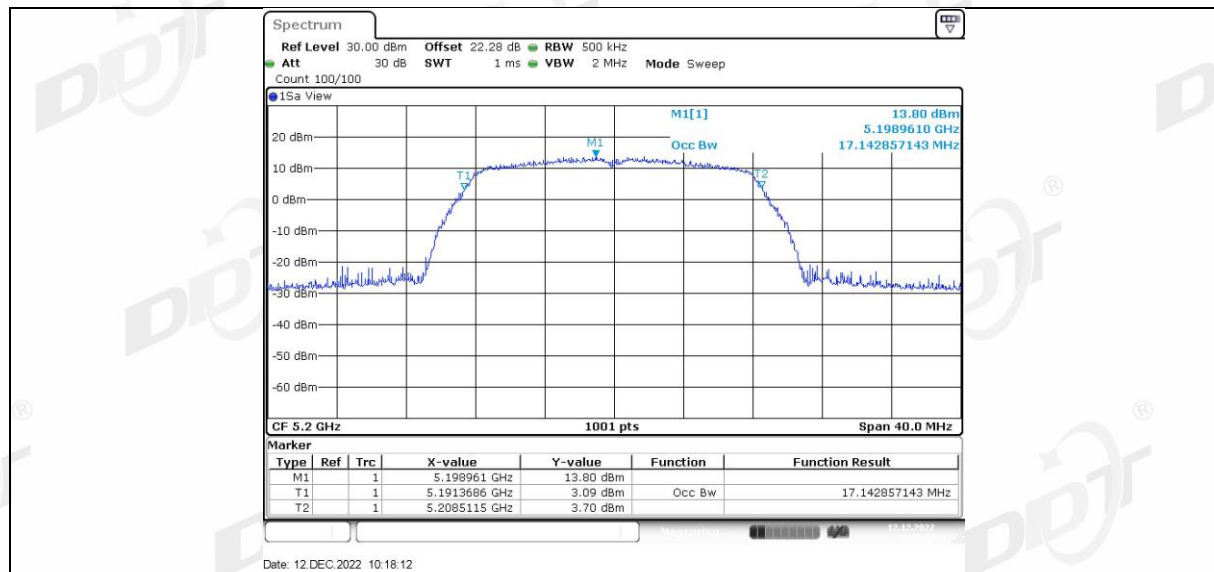
## 6.4. Test result

| Test Mode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|-----------|---------|----------------|-----------|-----------|-----------|------------|---------|
| 11A-CDD   | Ant1    | 5180           | 17.063    | 5171.4486 | 5188.5115 | ---        | ---     |
|           | Ant2    | 5180           | 16.783    | 5171.6084 | 5188.3916 | ---        | ---     |
|           | Ant1    | 5200           | 17.143    | 5191.3686 | 5208.5115 | ---        | ---     |
|           | Ant2    | 5200           | 16.703    | 5191.6084 | 5208.3117 | ---        | ---     |
|           | Ant1    | 5240           | 17.143    | 5231.3686 | 5248.5115 | ---        | ---     |
|           | Ant2    | 5240           | 16.703    | 5231.6084 | 5248.3117 | ---        | ---     |
|           | Ant1    | 5260           | 17.423    | 5251.2887 | 5268.7113 | ---        | ---     |
|           | Ant2    | 5260           | 16.943    | 5251.4885 | 5268.4316 | ---        | ---     |
|           | Ant1    | 5280           | 17.343    | 5271.3287 | 5288.6713 | ---        | ---     |
|           | Ant2    | 5280           | 16.743    | 5271.6084 | 5288.3516 | ---        | ---     |
|           | Ant1    | 5320           | 17.143    | 5311.4086 | 5328.5514 | ---        | ---     |
|           | Ant2    | 5320           | 16.743    | 5311.6084 | 5328.3516 | ---        | ---     |
|           | Ant1    | 5500           | 17.143    | 5491.4086 | 5508.5514 | ---        | ---     |
|           | Ant2    | 5500           | 16.743    | 5491.6484 | 5508.3916 | ---        | ---     |
|           | Ant1    | 5580           | 17.183    | 5571.3686 | 5588.5514 | ---        | ---     |
|           | Ant2    | 5580           | 16.743    | 5571.6084 | 5588.3516 | ---        | ---     |
|           | Ant1    | 5700           | 17.183    | 5691.3686 | 5708.5514 | ---        | ---     |
|           | Ant2    | 5700           | 16.743    | 5691.6084 | 5708.3516 | ---        | ---     |
|           | Ant1    | 5745           | 17.143    | 5736.4486 | 5753.5914 | ---        | ---     |
|           | Ant2    | 5745           | 16.743    | 5736.6084 | 5753.3516 | ---        | ---     |
|           | Ant1    | 5785           | 17.143    | 5776.4086 | 5793.5514 | ---        | ---     |
|           | Ant2    | 5785           | 16.743    | 5776.6084 | 5793.3516 | ---        | ---     |
|           | Ant1    | 5825           | 17.183    | 5816.4086 | 5833.5914 | ---        | ---     |
|           | Ant2    | 5825           | 16.743    | 5816.6084 | 5833.3516 | ---        | ---     |
| 11N20MIMO | Ant1    | 5180           | 17.982    | 5171.0090 | 5188.9910 | ---        | ---     |
|           | Ant2    | 5180           | 17.742    | 5171.1289 | 5188.8711 | ---        | ---     |
|           | Ant1    | 5200           | 18.022    | 5190.9291 | 5208.9510 | ---        | ---     |
|           | Ant2    | 5200           | 17.742    | 5191.0889 | 5208.8312 | ---        | ---     |
|           | Ant1    | 5240           | 17.982    | 5230.9690 | 5248.9510 | ---        | ---     |
|           | Ant2    | 5240           | 17.742    | 5231.0889 | 5248.8312 | ---        | ---     |
|           | Ant1    | 5260           | 18.022    | 5251.0090 | 5269.0310 | ---        | ---     |
|           | Ant2    | 5260           | 17.742    | 5251.1289 | 5268.8711 | ---        | ---     |
|           | Ant1    | 5280           | 18.022    | 5270.9690 | 5288.9910 | ---        | ---     |
|           | Ant2    | 5280           | 17.742    | 5271.0889 | 5288.8312 | ---        | ---     |
|           | Ant1    | 5320           | 17.982    | 5311.0090 | 5328.9910 | ---        | ---     |
|           | Ant2    | 5320           | 17.742    | 5311.0889 | 5328.8312 | ---        | ---     |
|           | Ant1    | 5500           | 18.022    | 5490.9690 | 5508.9910 | ---        | ---     |
|           | Ant2    | 5500           | 17.702    | 5491.1289 | 5508.8312 | ---        | ---     |
|           | Ant1    | 5580           | 18.022    | 5570.9690 | 5588.9910 | ---        | ---     |
|           | Ant2    | 5580           | 17.782    | 5571.0889 | 5588.8711 | ---        | ---     |
|           | Ant1    | 5700           | 17.982    | 5690.9690 | 5708.9510 | ---        | ---     |
|           | Ant2    | 5700           | 17.742    | 5691.0889 | 5708.8312 | ---        | ---     |
|           | Ant1    | 5745           | 18.022    | 5735.9690 | 5753.9910 | ---        | ---     |
|           | Ant2    | 5745           | 17.702    | 5736.1289 | 5753.8312 | ---        | ---     |
|           | Ant1    | 5785           | 17.942    | 5776.0090 | 5793.9510 | ---        | ---     |
|           | Ant2    | 5785           | 17.702    | 5776.1289 | 5793.8312 | ---        | ---     |
|           | Ant1    | 5825           | 18.062    | 5815.9690 | 5834.0310 | ---        | ---     |
|           | Ant2    | 5825           | 17.742    | 5816.1289 | 5833.8711 | ---        | ---     |
| 11N40MIMO | Ant1    | 5190           | 36.204    | 5171.8581 | 5208.0619 | ---        | ---     |
|           | Ant2    | 5190           | 36.204    | 5171.8581 | 5208.0619 | ---        | ---     |
|           | Ant1    | 5230           | 36.364    | 5211.7782 | 5248.1419 | ---        | ---     |
|           | Ant2    | 5230           | 36.124    | 5211.8581 | 5247.9820 | ---        | ---     |
|           | Ant1    | 5270           | 36.204    | 5251.9381 | 5288.1419 | ---        | ---     |
|           | Ant2    | 5270           | 36.284    | 5251.8581 | 5288.1419 | ---        | ---     |
|           | Ant1    | 5310           | 36.284    | 5291.8581 | 5328.1419 | ---        | ---     |
|           | Ant2    | 5310           | 36.284    | 5291.7782 | 5328.0619 | ---        | ---     |
|           | Ant1    | 5510           | 36.364    | 5491.7782 | 5528.1419 | ---        | ---     |
|           | Ant2    | 5510           | 36.124    | 5491.9381 | 5528.0619 | ---        | ---     |
|           | Ant1    | 5550           | 36.284    | 5531.7782 | 5568.0619 | ---        | ---     |
|           | Ant2    | 5550           | 36.284    | 5531.8581 | 5568.1419 | ---        | ---     |

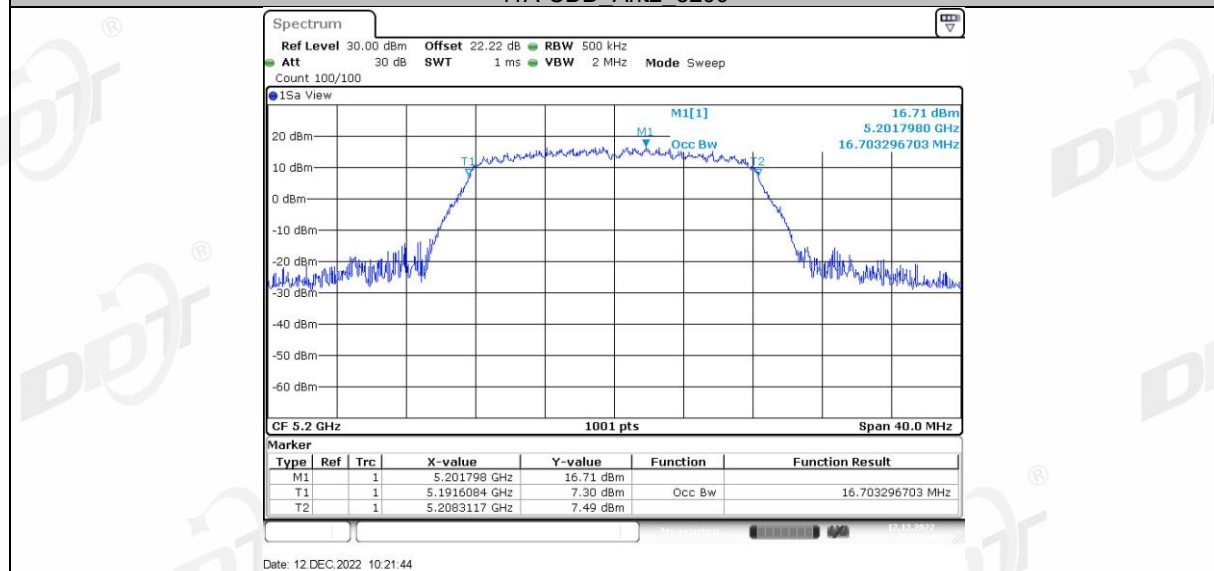
|            |      |      |        |           |           |     |     |
|------------|------|------|--------|-----------|-----------|-----|-----|
|            | Ant1 | 5670 | 36.364 | 5651.7782 | 5688.1419 | --- | --- |
|            | Ant2 | 5670 | 36.284 | 5651.7782 | 5688.0619 | --- | --- |
|            | Ant1 | 5755 | 36.364 | 5736.8581 | 5773.2218 | --- | --- |
|            | Ant2 | 5755 | 36.284 | 5736.8581 | 5773.1419 | --- | --- |
|            | Ant1 | 5795 | 36.444 | 5776.7782 | 5813.2218 | --- | --- |
|            | Ant2 | 5795 | 36.124 | 5776.8581 | 5812.9820 | --- | --- |
| 11AC20MIMO | Ant1 | 5180 | 17.982 | 5171.0090 | 5188.9910 | --- | --- |
|            | Ant2 | 5180 | 17.742 | 5171.1289 | 5188.8711 | --- | --- |
|            | Ant1 | 5200 | 18.062 | 5190.9291 | 5208.9910 | --- | --- |
|            | Ant2 | 5200 | 17.742 | 5191.0889 | 5208.8312 | --- | --- |
|            | Ant1 | 5240 | 18.022 | 5230.9291 | 5248.9510 | --- | --- |
|            | Ant2 | 5240 | 17.702 | 5231.1289 | 5248.8312 | --- | --- |
|            | Ant1 | 5260 | 18.062 | 5250.9690 | 5269.0310 | --- | --- |
|            | Ant2 | 5260 | 17.742 | 5251.1289 | 5268.8711 | --- | --- |
|            | Ant1 | 5280 | 18.022 | 5270.9690 | 5288.9910 | --- | --- |
|            | Ant2 | 5280 | 17.742 | 5271.1289 | 5288.8711 | --- | --- |
|            | Ant1 | 5320 | 17.982 | 5310.9690 | 5328.9510 | --- | --- |
|            | Ant2 | 5320 | 17.702 | 5311.1289 | 5328.8312 | --- | --- |
|            | Ant1 | 5500 | 18.062 | 5490.9291 | 5508.9910 | --- | --- |
|            | Ant2 | 5500 | 17.742 | 5491.1289 | 5508.8711 | --- | --- |
|            | Ant1 | 5580 | 18.022 | 5570.9690 | 5588.9910 | --- | --- |
|            | Ant2 | 5580 | 17.782 | 5571.0889 | 5588.8711 | --- | --- |
|            | Ant1 | 5700 | 18.062 | 5690.9291 | 5708.9910 | --- | --- |
|            | Ant2 | 5700 | 17.742 | 5691.0889 | 5708.8312 | --- | --- |
|            | Ant1 | 5745 | 17.982 | 5736.0090 | 5753.9910 | --- | --- |
|            | Ant2 | 5745 | 17.702 | 5736.1289 | 5753.8312 | --- | --- |
|            | Ant1 | 5785 | 18.022 | 5775.9690 | 5793.9910 | --- | --- |
|            | Ant2 | 5785 | 17.702 | 5776.1289 | 5793.8312 | --- | --- |
|            | Ant1 | 5825 | 18.062 | 5815.9690 | 5834.0310 | --- | --- |
|            | Ant2 | 5825 | 17.742 | 5816.1289 | 5833.8711 | --- | --- |
| 11AC40MIMO | Ant1 | 5190 | 36.284 | 5171.7782 | 5208.0619 | --- | --- |
|            | Ant2 | 5190 | 36.204 | 5171.8581 | 5208.0619 | --- | --- |
|            | Ant1 | 5230 | 36.364 | 5211.6983 | 5248.0619 | --- | --- |
|            | Ant2 | 5230 | 36.204 | 5211.8581 | 5248.0619 | --- | --- |
|            | Ant1 | 5270 | 36.284 | 5251.9381 | 5288.2218 | --- | --- |
|            | Ant2 | 5270 | 36.204 | 5251.9381 | 5288.1419 | --- | --- |
|            | Ant1 | 5310 | 36.284 | 5291.8581 | 5328.1419 | --- | --- |
|            | Ant2 | 5310 | 36.204 | 5291.8581 | 5328.0619 | --- | --- |
|            | Ant1 | 5510 | 36.284 | 5491.7782 | 5528.0619 | --- | --- |
|            | Ant2 | 5510 | 36.124 | 5491.9381 | 5528.0619 | --- | --- |
|            | Ant1 | 5550 | 36.364 | 5531.7782 | 5568.1419 | --- | --- |
|            | Ant2 | 5550 | 36.204 | 5531.8581 | 5568.0619 | --- | --- |
|            | Ant1 | 5670 | 36.444 | 5651.7782 | 5688.2218 | --- | --- |
|            | Ant2 | 5670 | 36.284 | 5651.7782 | 5688.0619 | --- | --- |
|            | Ant1 | 5755 | 36.364 | 5736.8581 | 5773.2218 | --- | --- |
|            | Ant2 | 5755 | 36.204 | 5736.8581 | 5773.0619 | --- | --- |
|            | Ant1 | 5795 | 36.364 | 5776.7782 | 5813.1419 | --- | --- |
|            | Ant2 | 5795 | 36.284 | 5776.7782 | 5813.0619 | --- | --- |
| 11AC80MIMO | Ant1 | 5210 | 75.604 | 5172.1179 | 5247.7223 | --- | --- |
|            | Ant2 | 5210 | 75.604 | 5172.1179 | 5247.7223 | --- | --- |
|            | Ant1 | 5290 | 75.285 | 5252.4376 | 5327.7223 | --- | --- |
|            | Ant2 | 5290 | 75.445 | 5252.2777 | 5327.7223 | --- | --- |
|            | Ant1 | 5530 | 75.445 | 5492.1179 | 5567.5624 | --- | --- |
|            | Ant2 | 5530 | 75.285 | 5492.2777 | 5567.5624 | --- | --- |
|            | Ant1 | 5610 | 75.604 | 5572.1179 | 5647.7223 | --- | --- |
|            | Ant2 | 5610 | 75.604 | 5572.1179 | 5647.7223 | --- | --- |
|            | Ant1 | 5775 | 75.445 | 5737.4376 | 5812.8821 | --- | --- |
|            | Ant2 | 5775 | 75.285 | 5737.2777 | 5812.5624 | --- | --- |

## 6.5. Test graphs

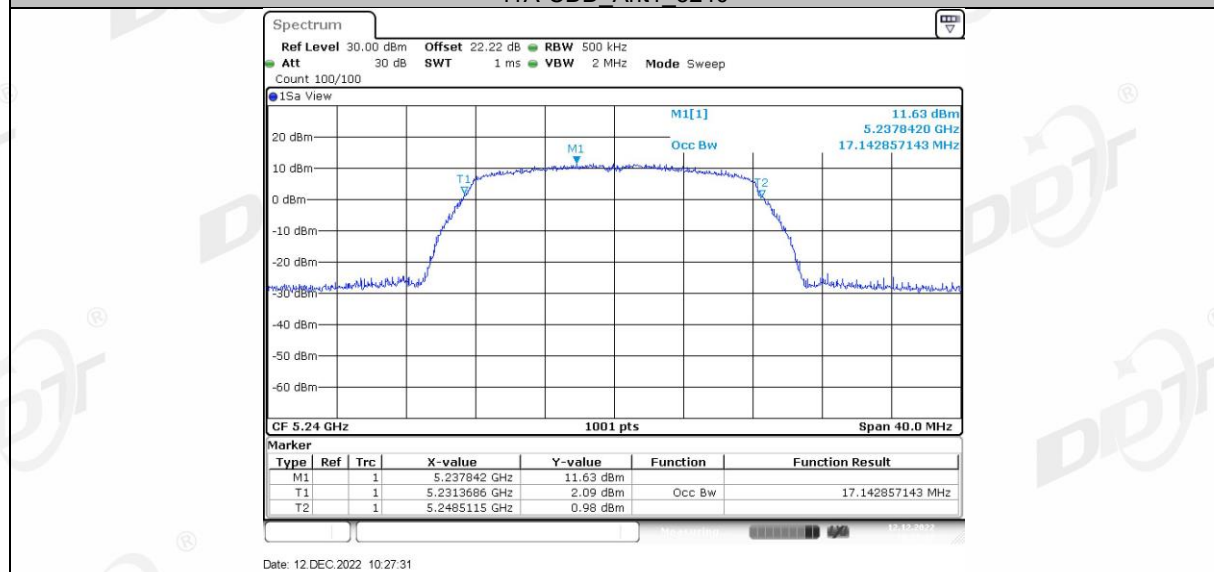




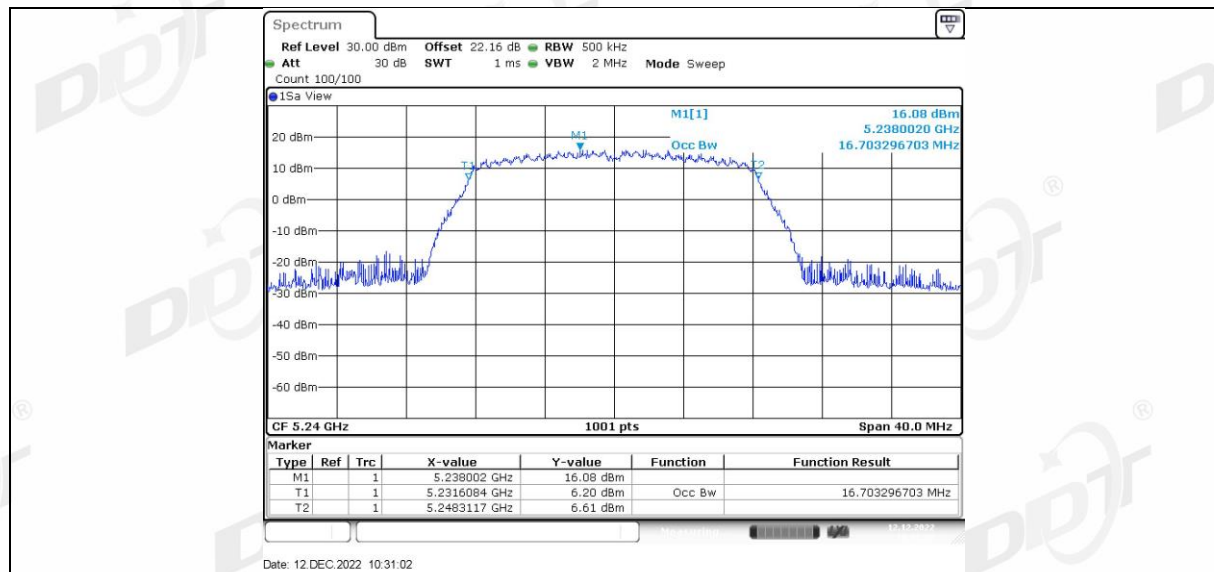
11A-CDD Ant2 5200



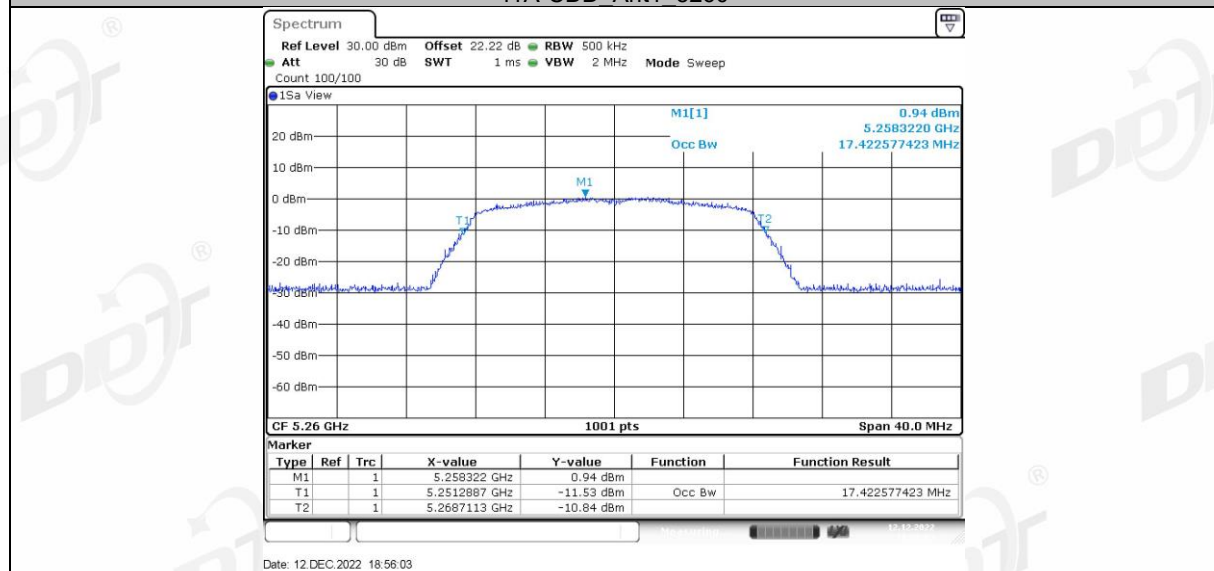
11A-CDD Ant1 5240



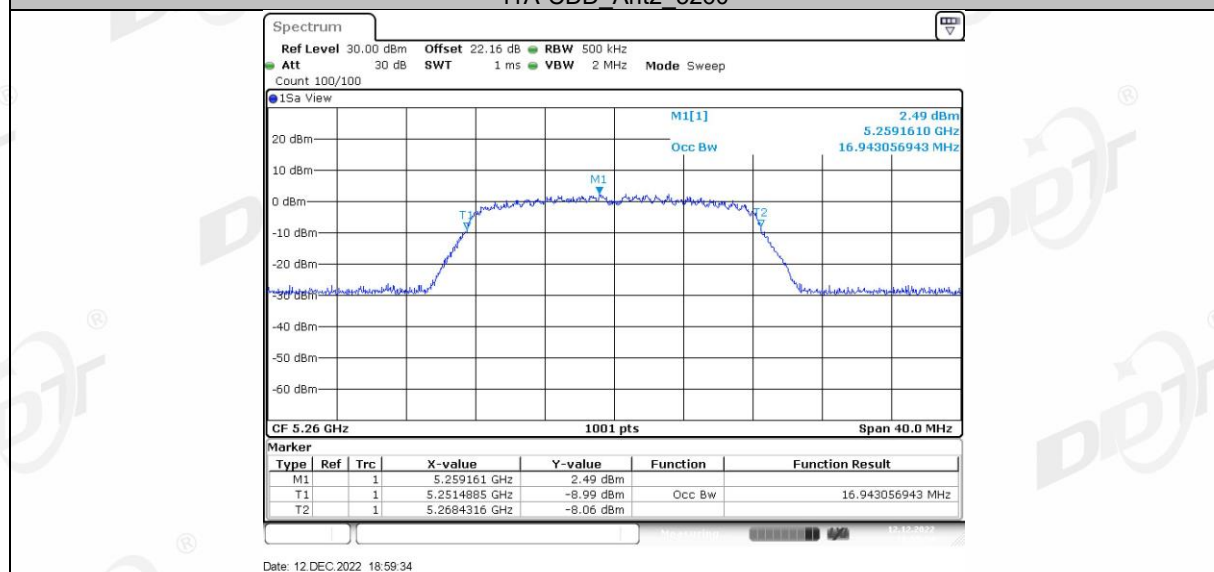
11A-CDD Ant2 5240



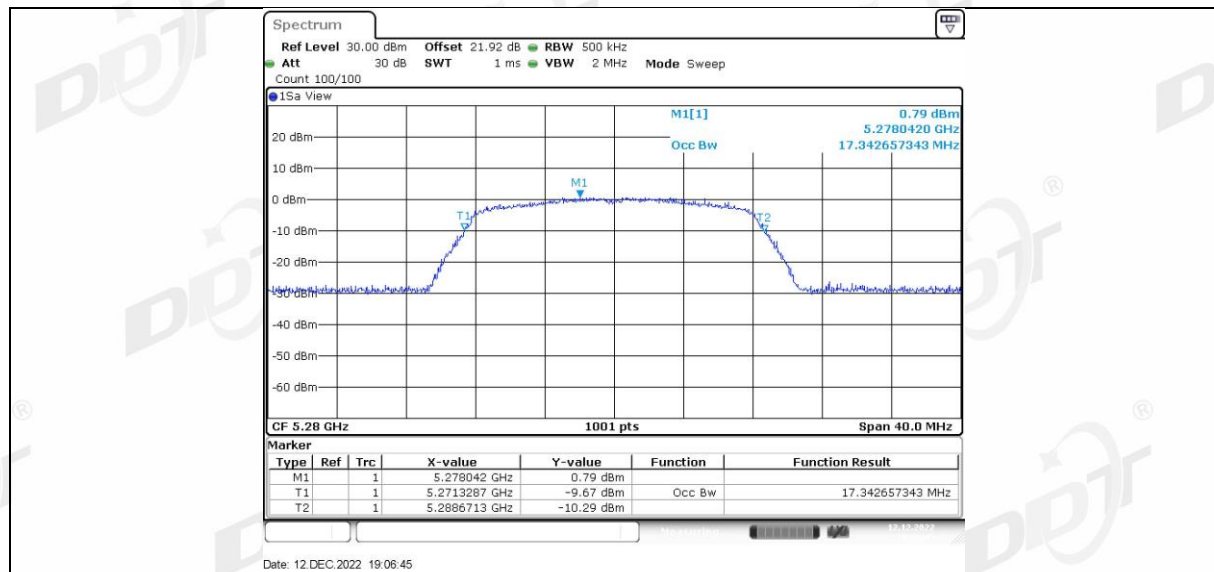
11A-CDD Ant1 5260



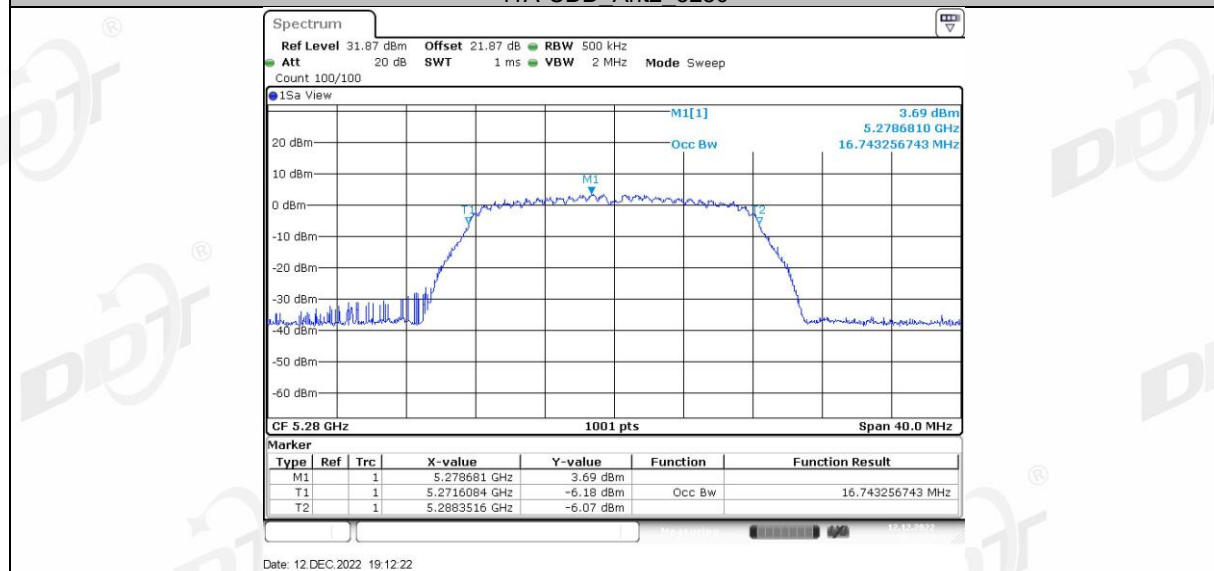
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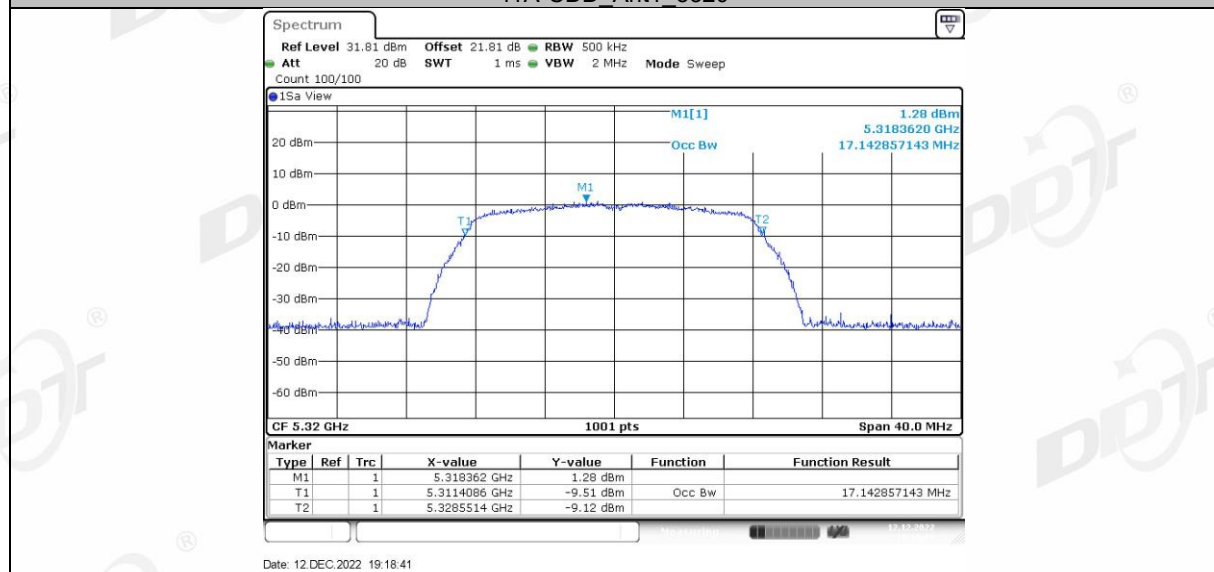
11A-CDD Ant1 5280



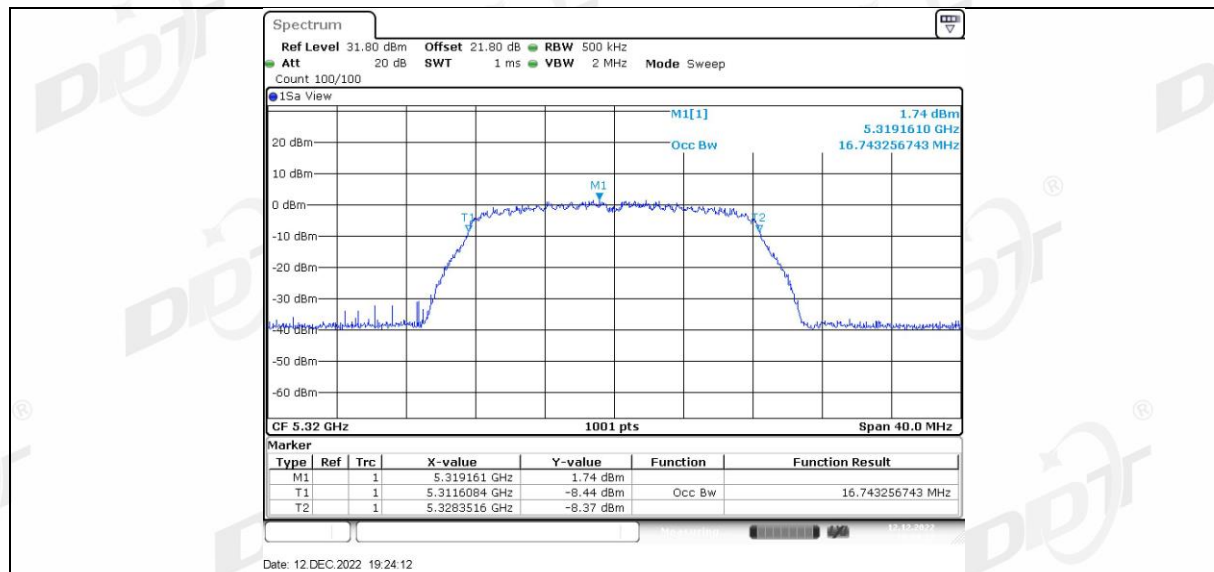
11A-CDD Ant2 5280



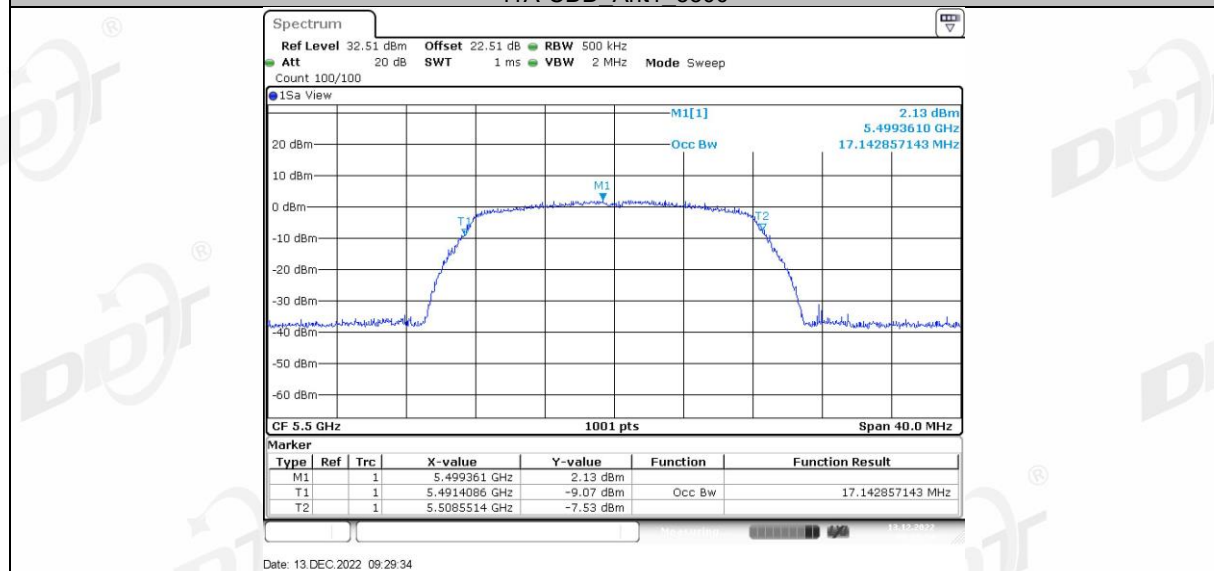
11A-CDD Ant1 5320



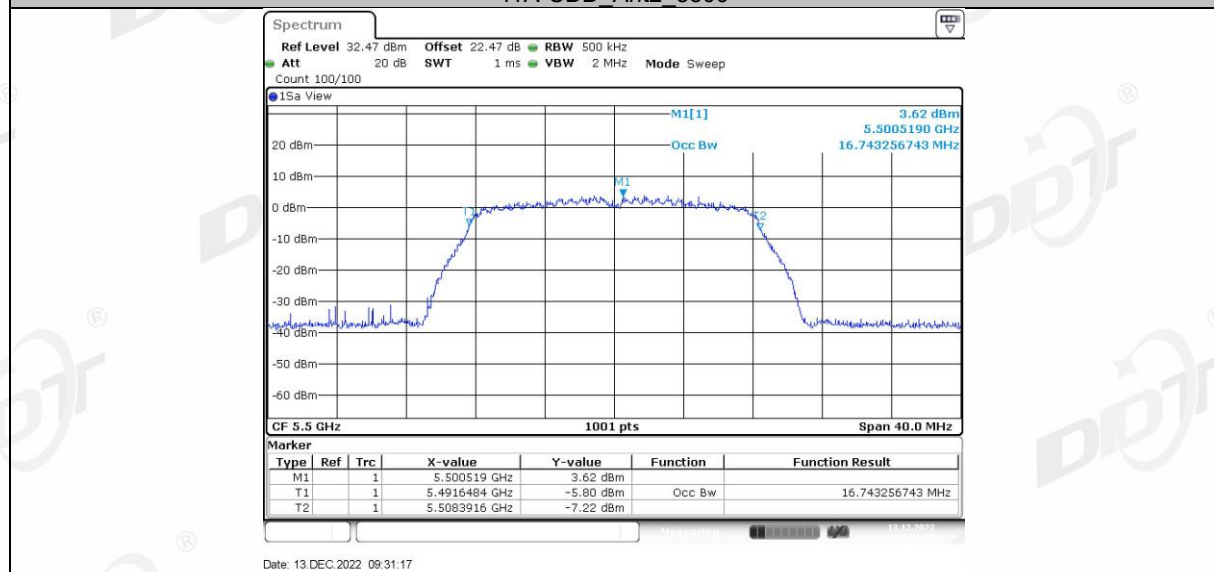
11A-CDD Ant2 5320



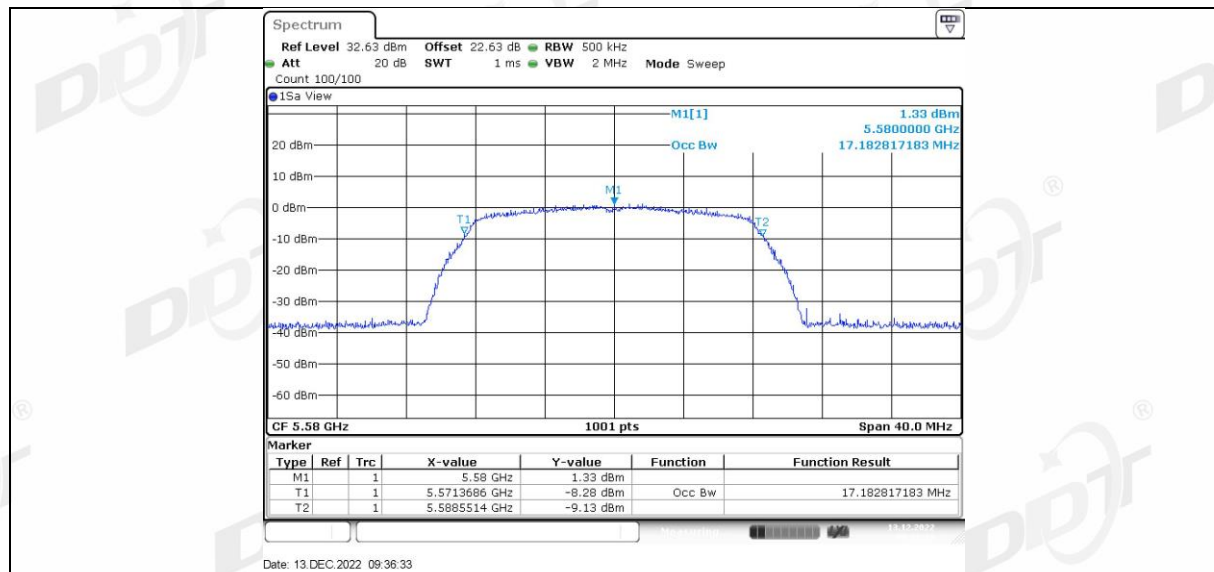
11A-CDD Ant1 5500



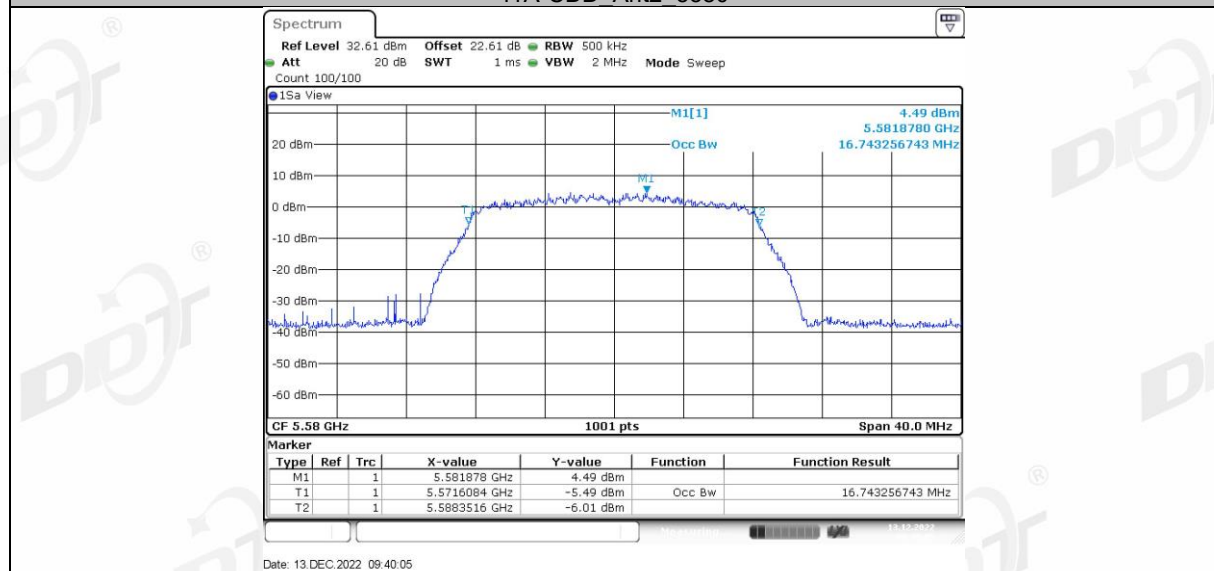
11A-CDD Ant2 5500



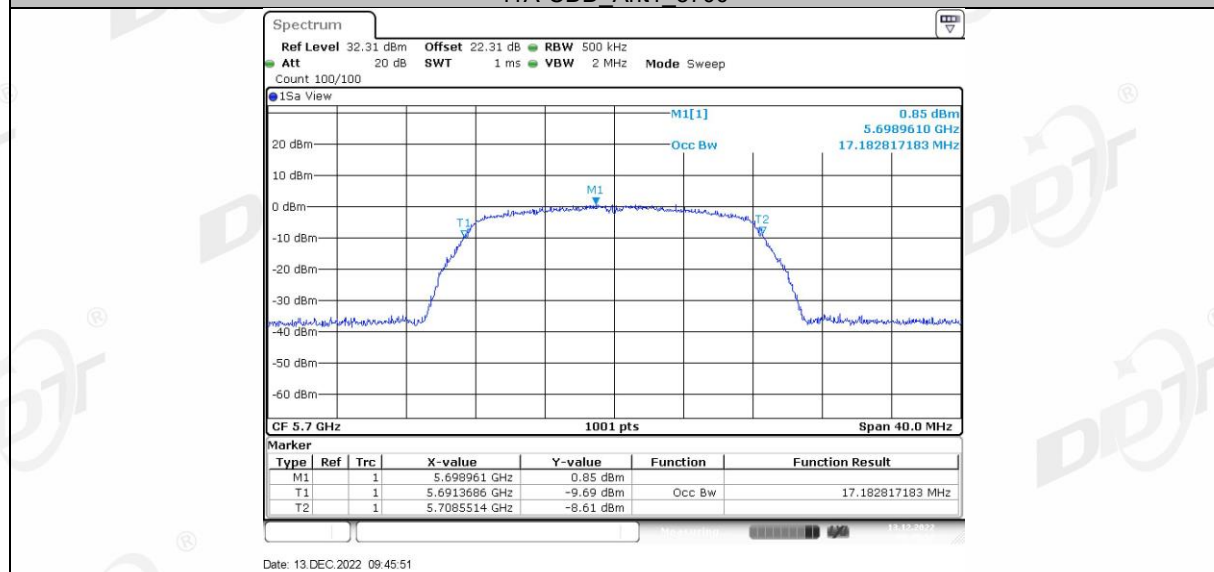
11A-CDD Ant1 5580



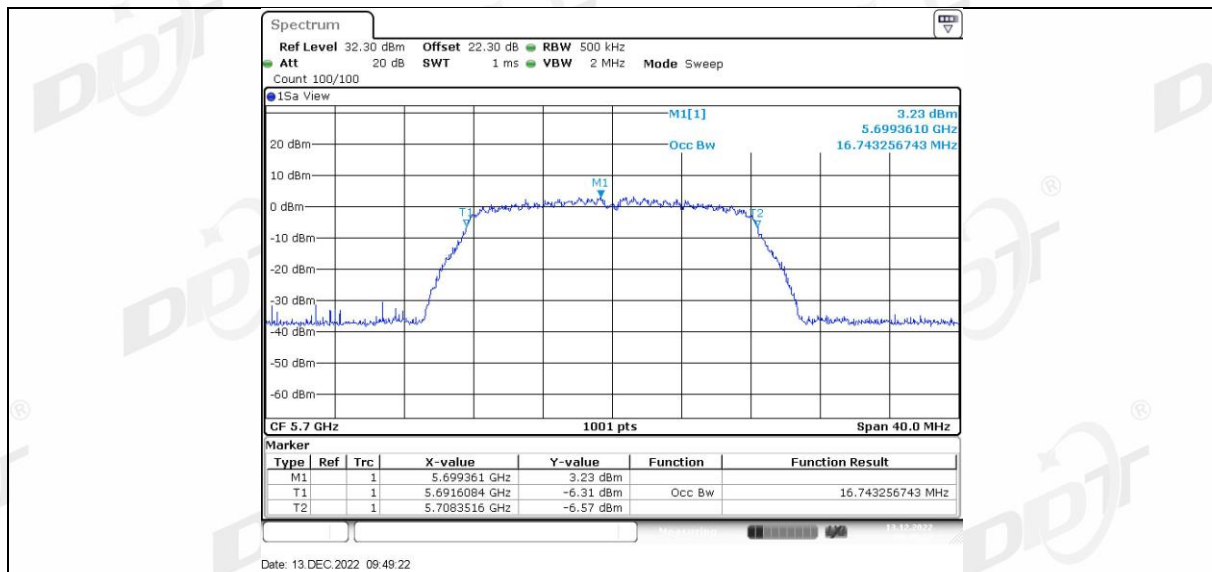
11A-CDD Ant2 5580



11A-CDD Ant1 5700



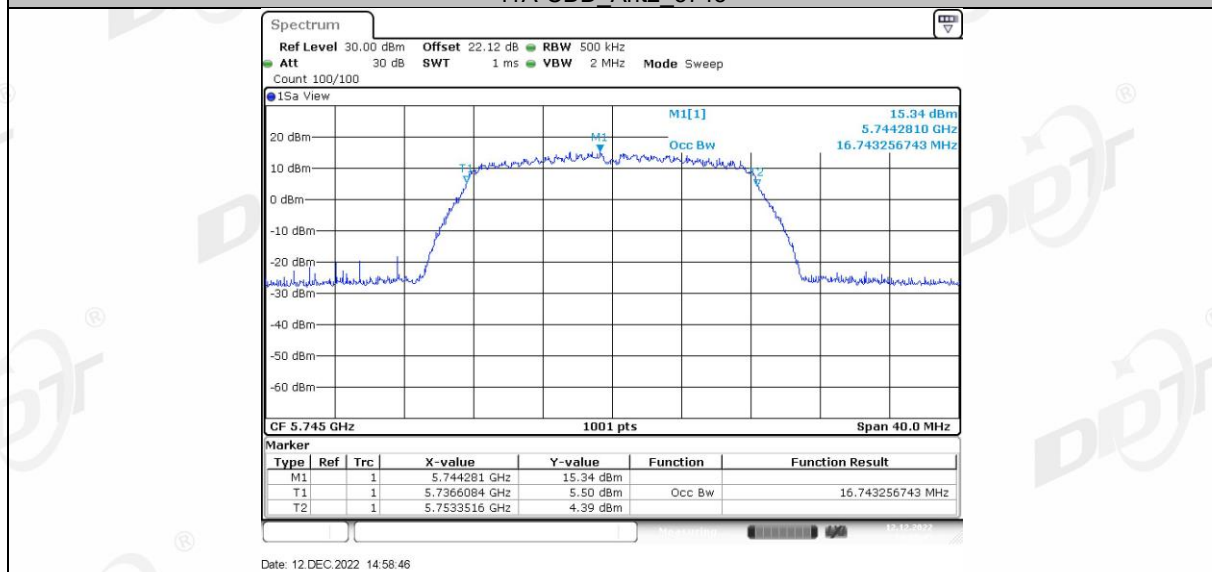
11A-CDD Ant2 5700



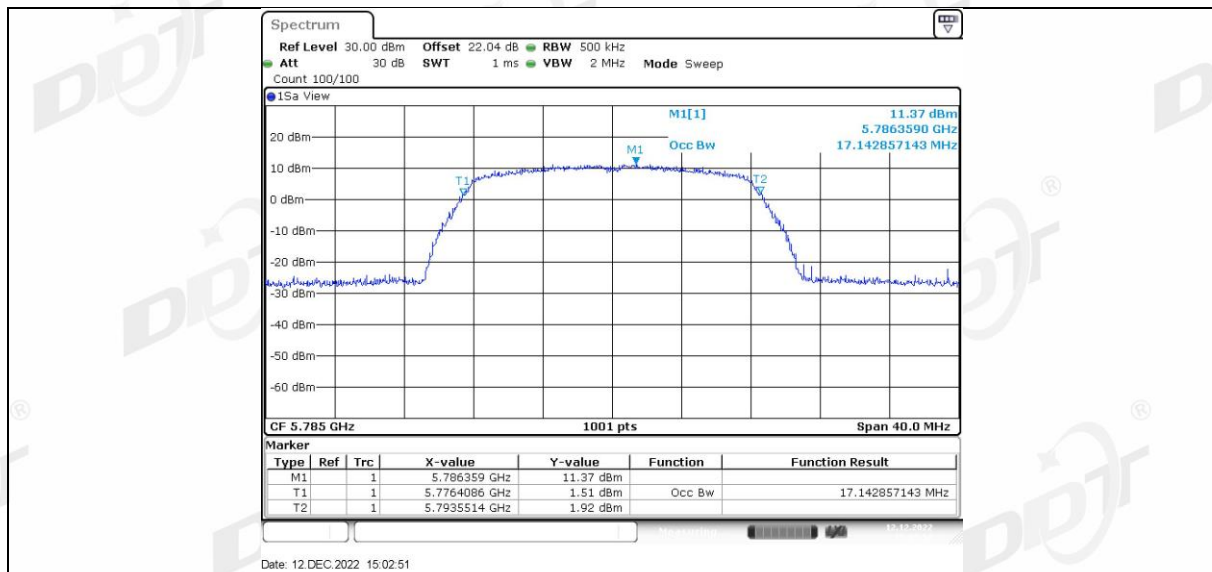
11A-CDD Ant1 5745



11A-CDD Ant2 5745



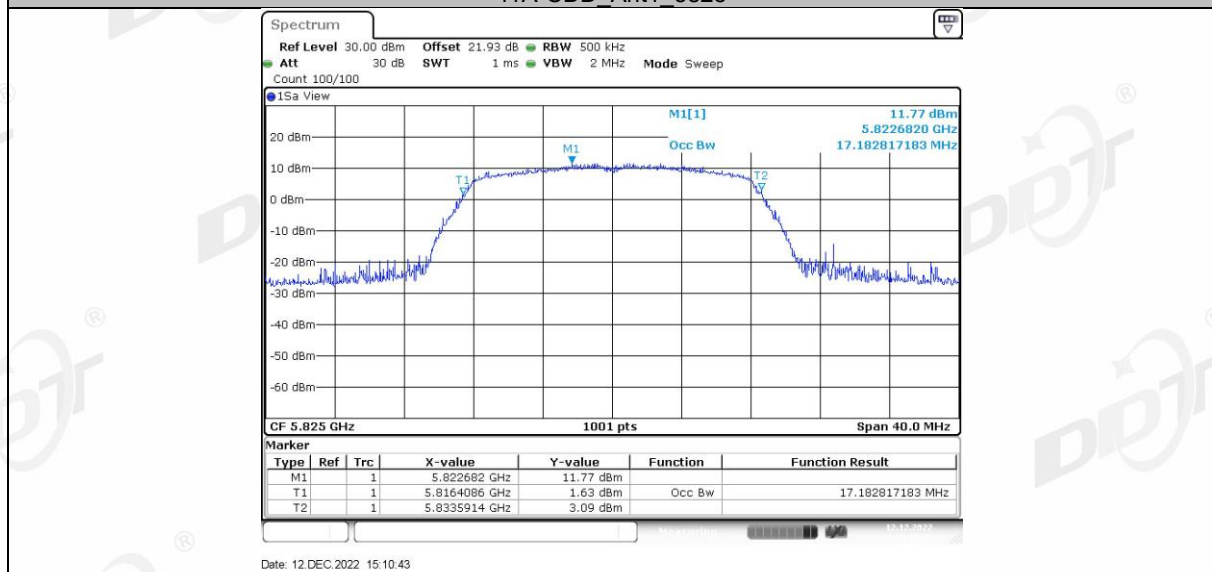
11A-CDD Ant1 5785



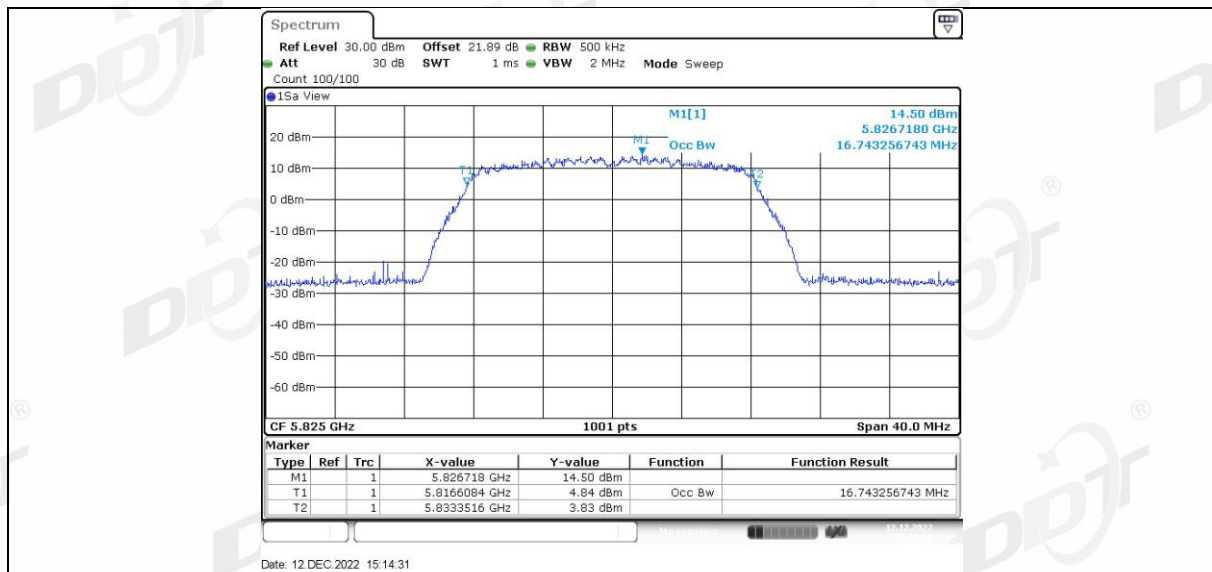
11A-CDD Ant2 5785



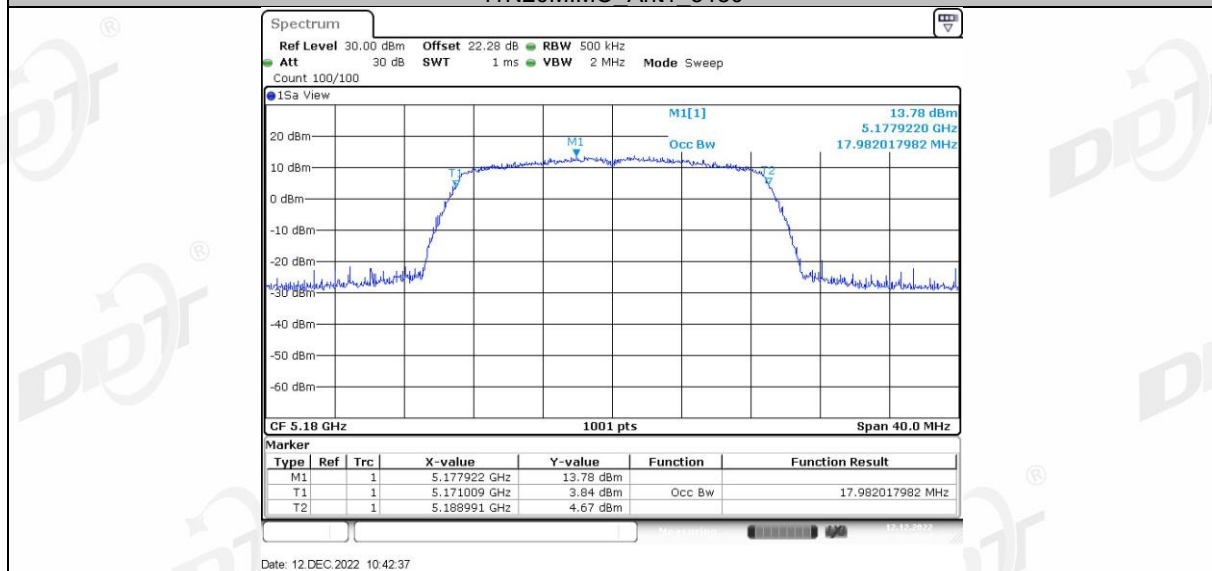
11A-CDD Ant1 5825



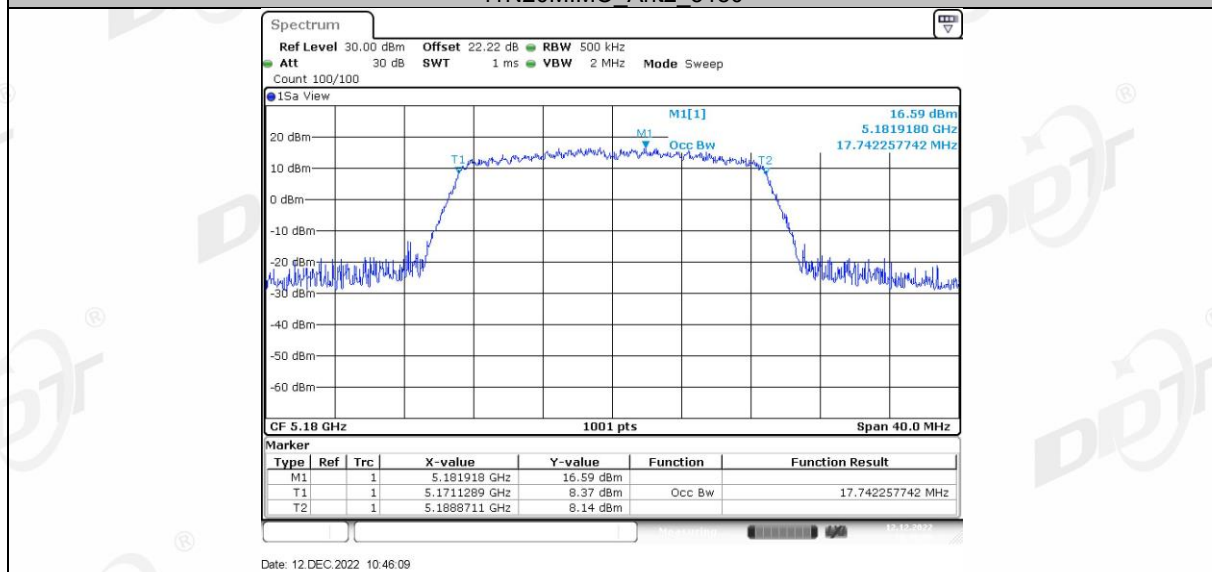
11A-CDD Ant2 5825



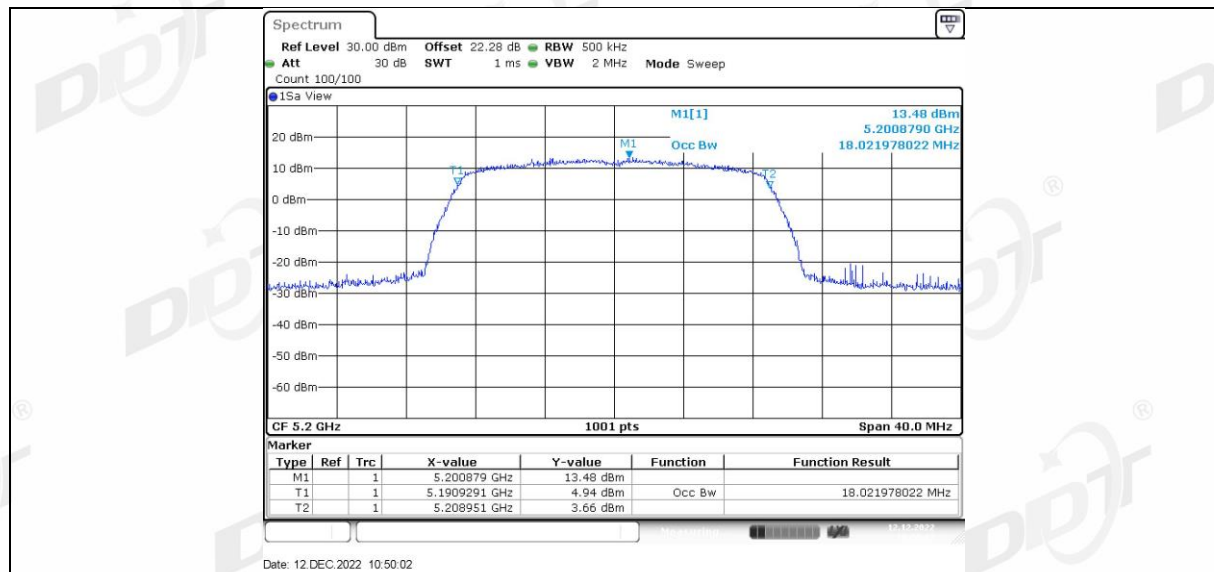
11N20MIMO Ant1 5180



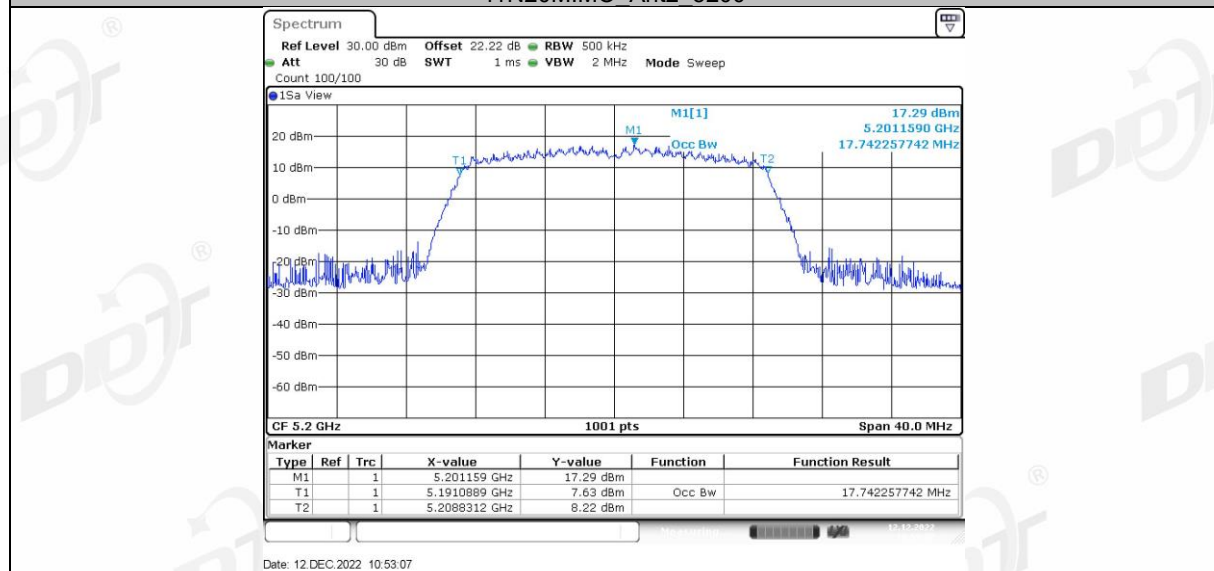
11N20MIMO Ant2 5180



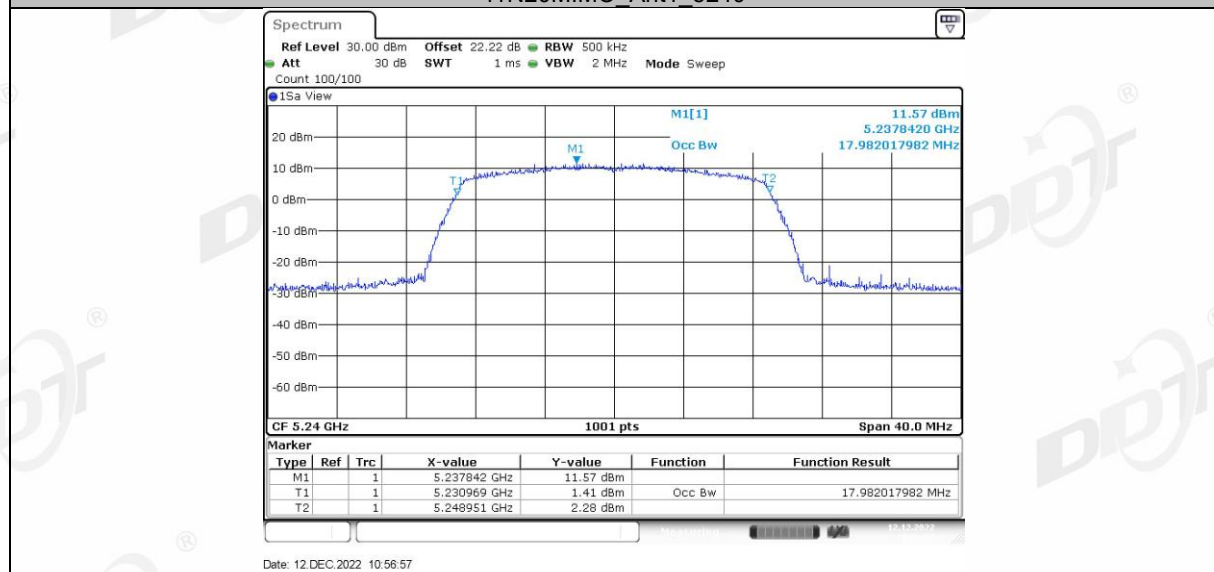
11N20MIMO Ant1 5200



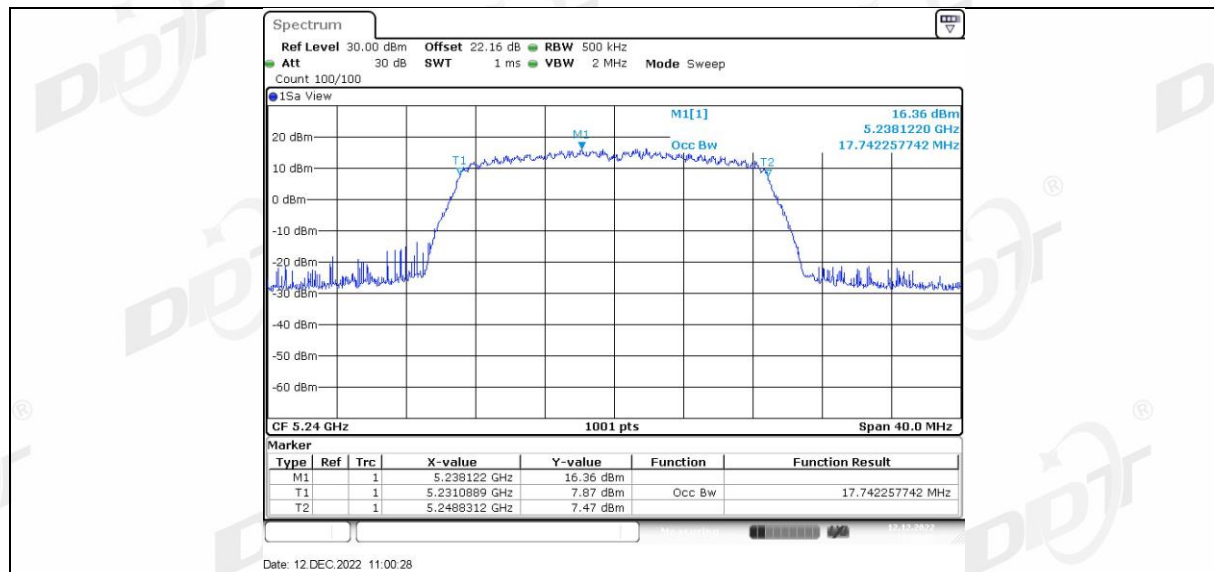
11N20MIMO Ant2 5200



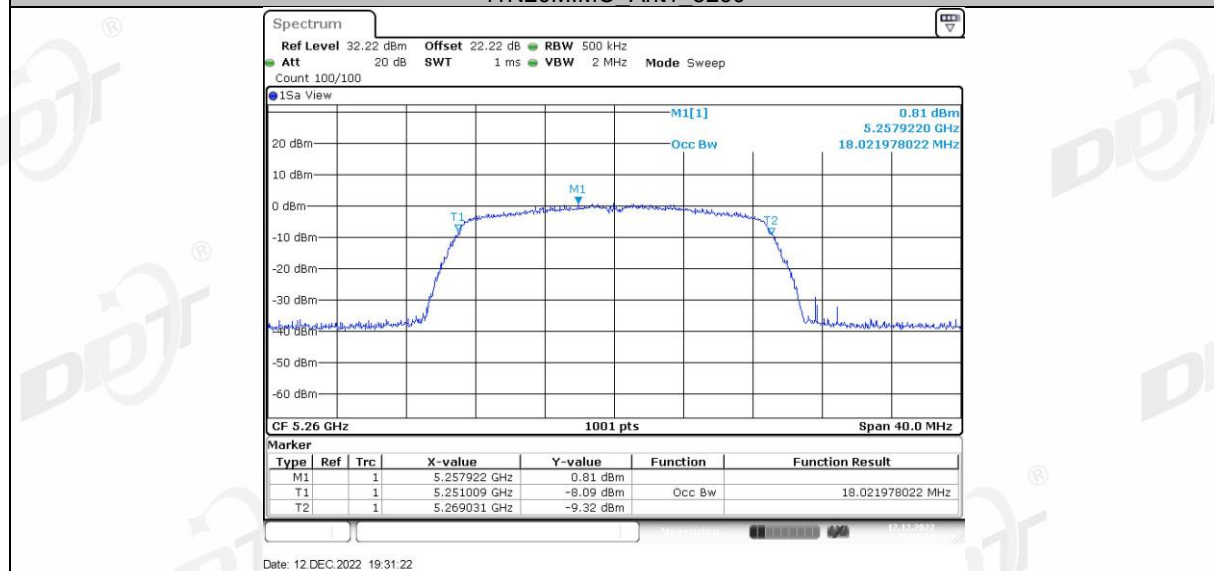
11N20MIMO Ant1 5240



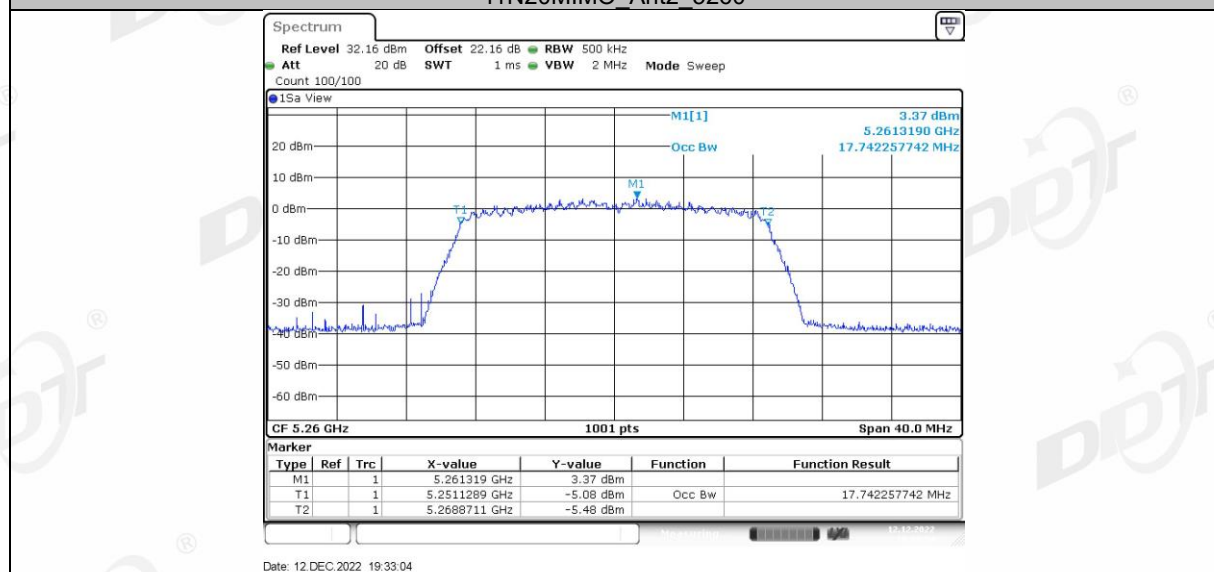
11N20MIMO Ant2 5240



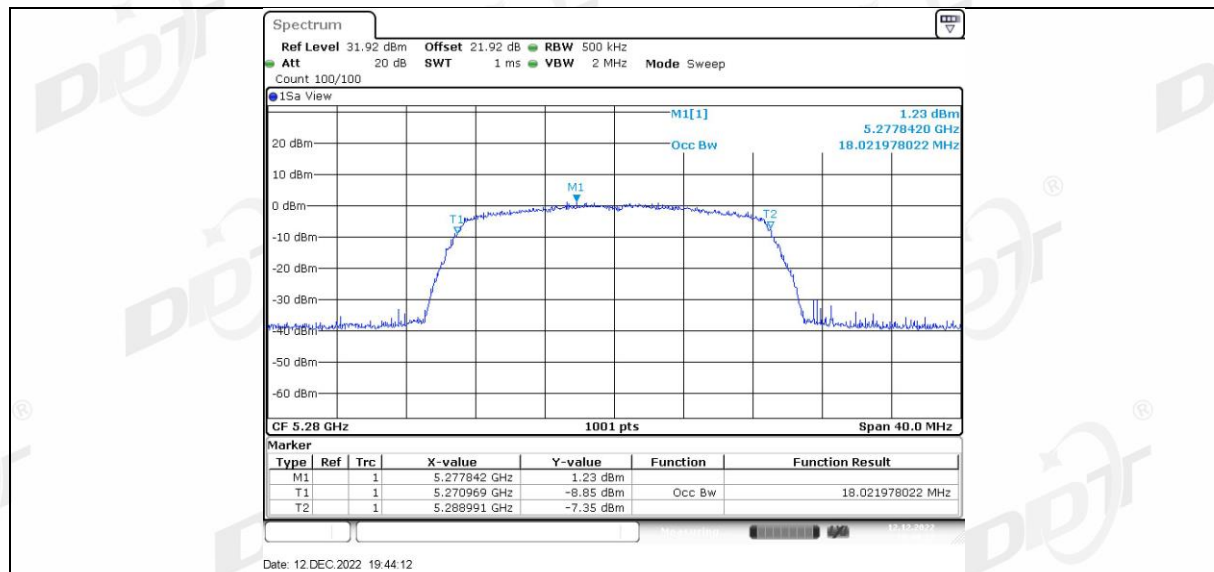
11N20MIMO Ant1 5260



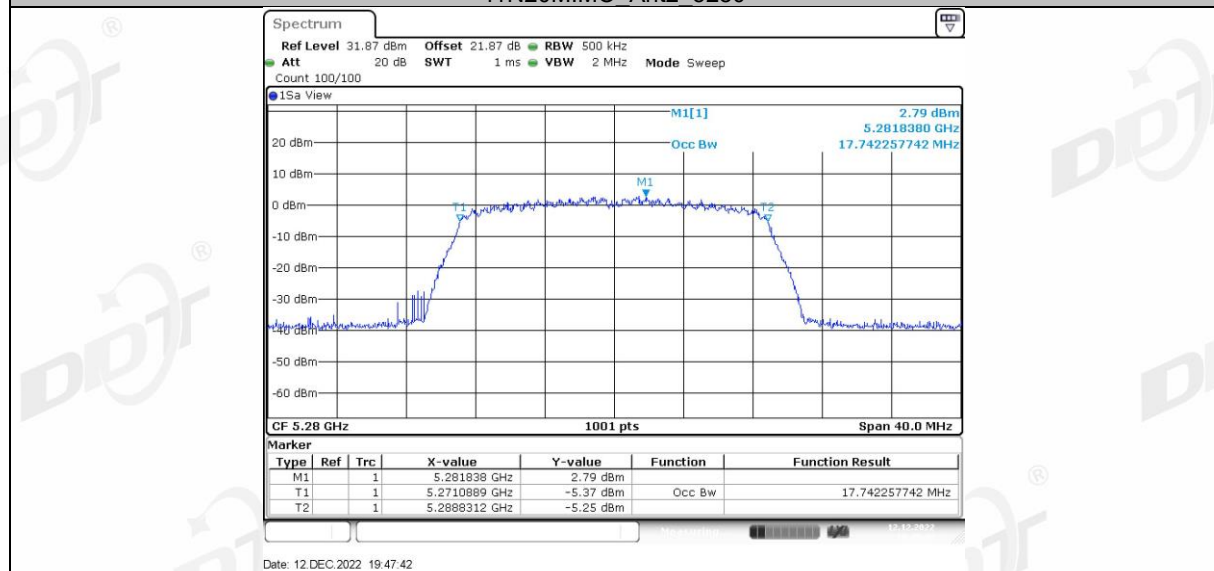
11N20MIMO Ant2 5260



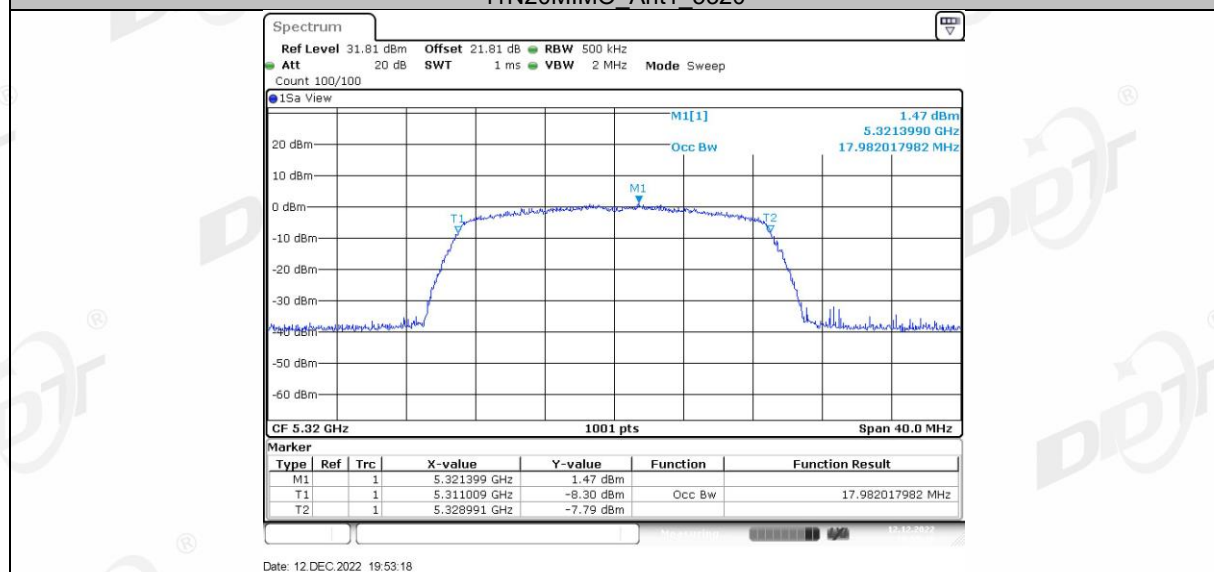
11N20MIMO Ant1 5280



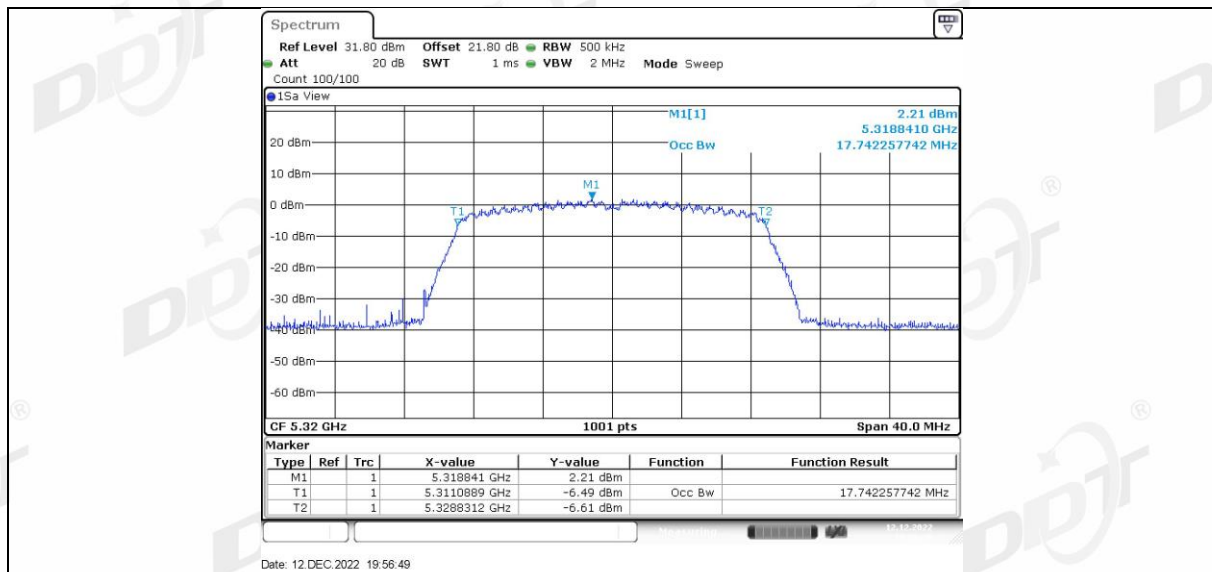
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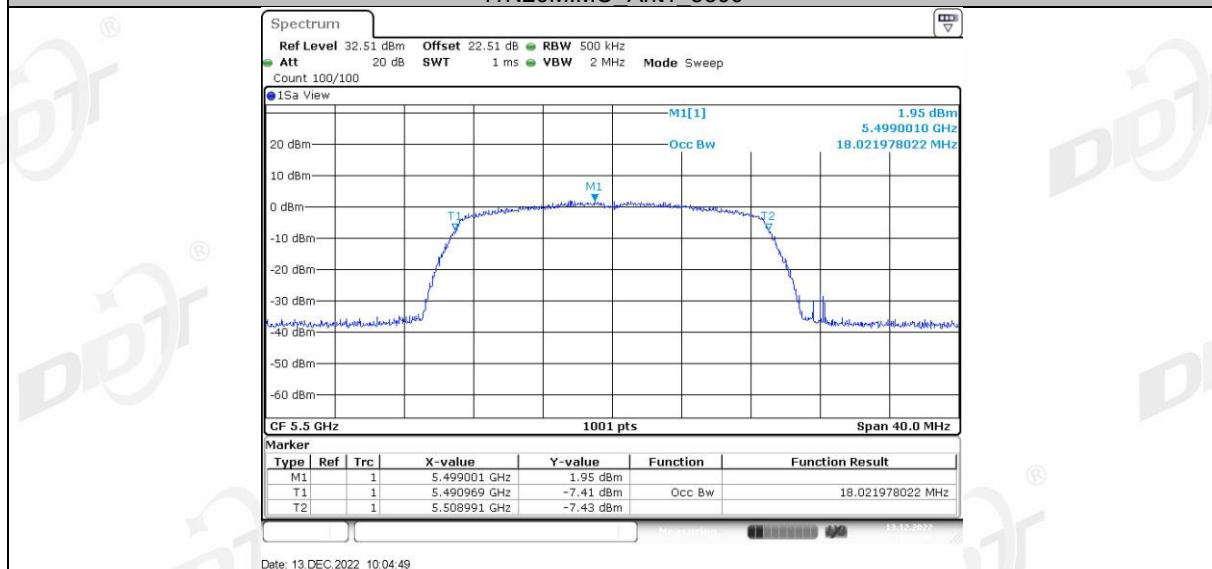
11N20MIMO Ant1 5320



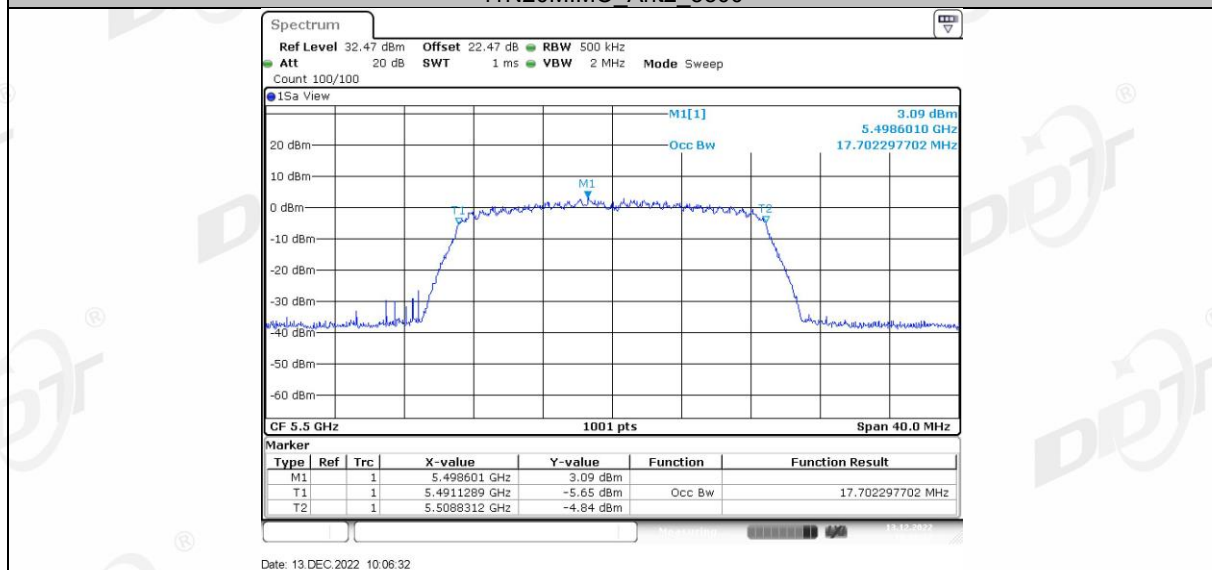
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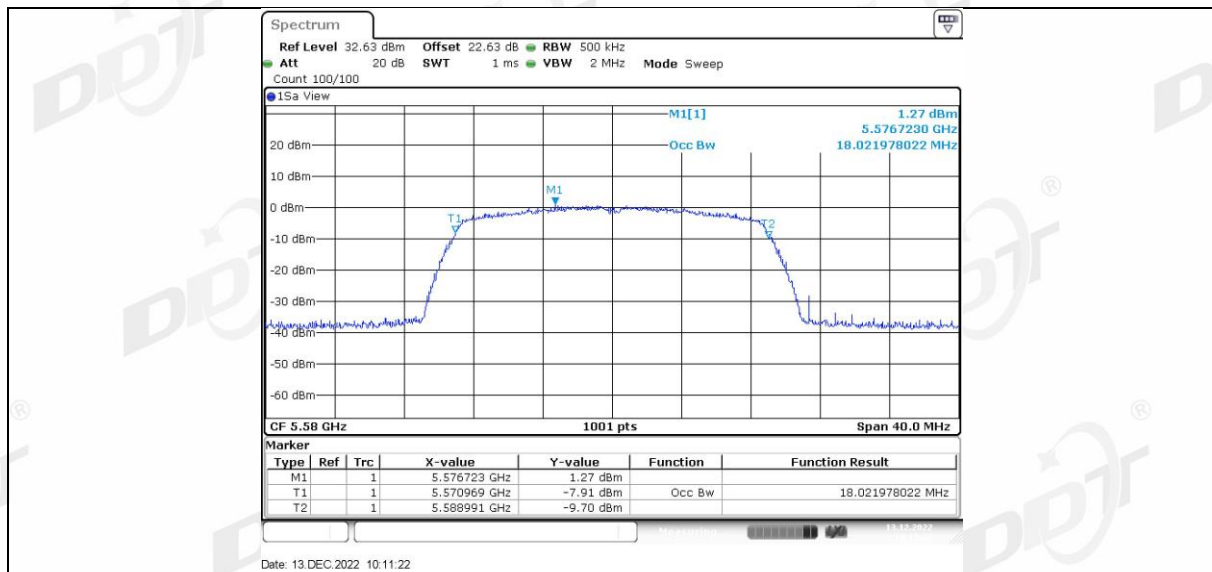
11N20MIMO Ant1 5500



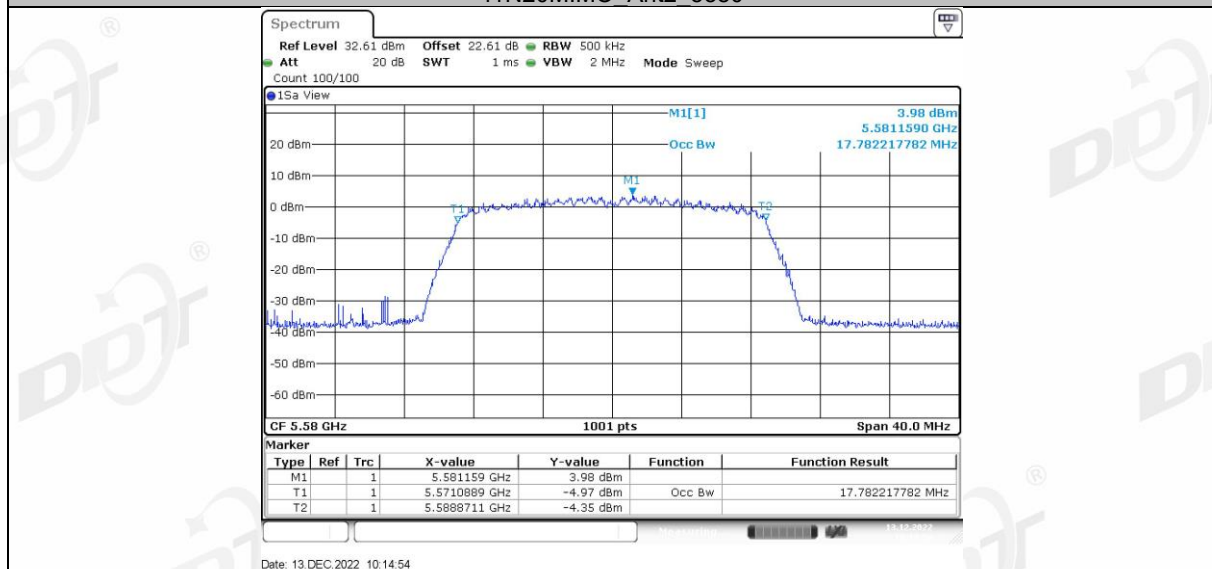
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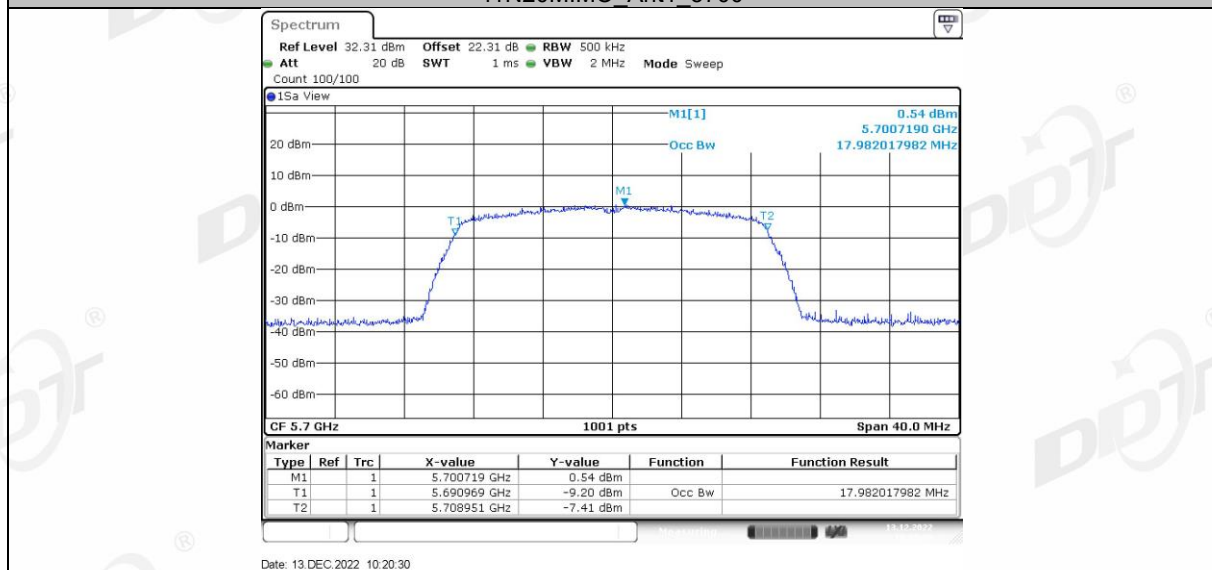
11N20MIMO Ant1 5580



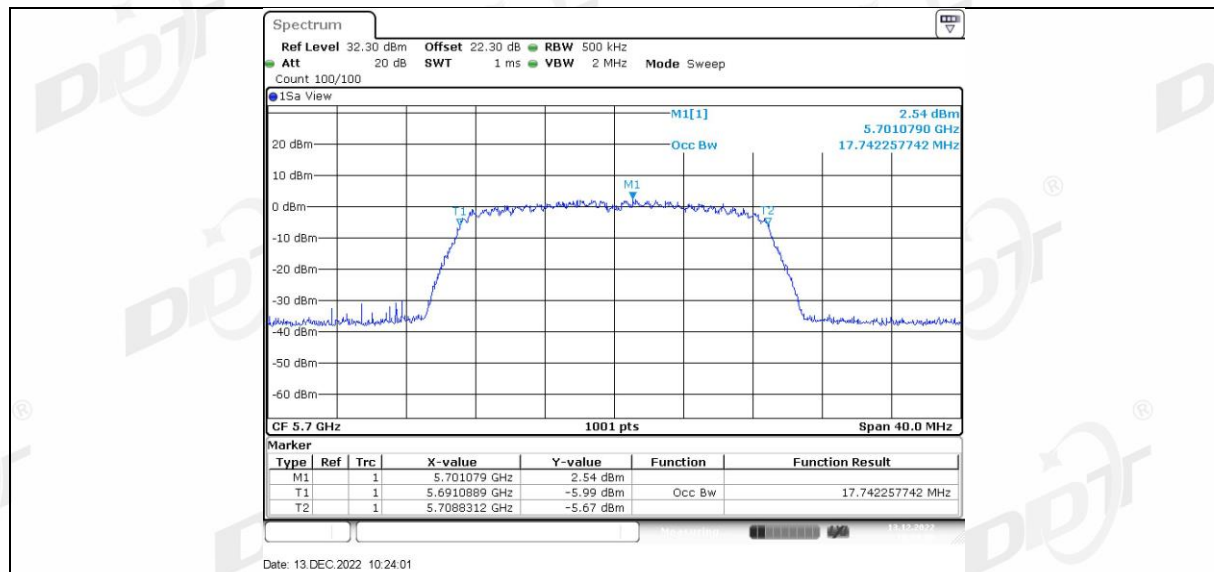
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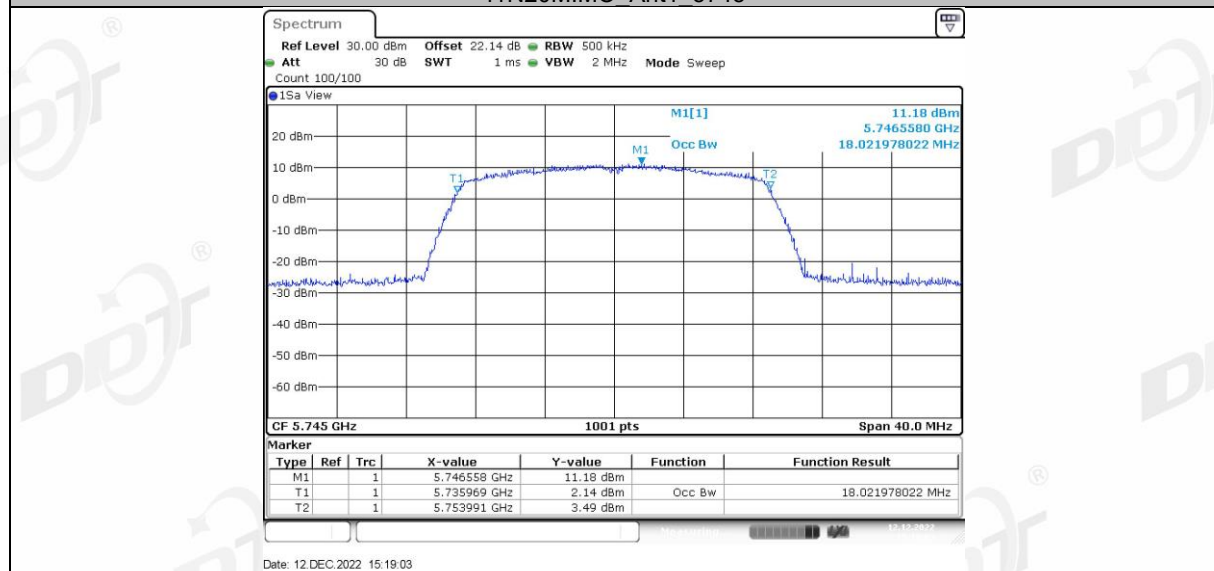
11N20MIMO Ant1 5700



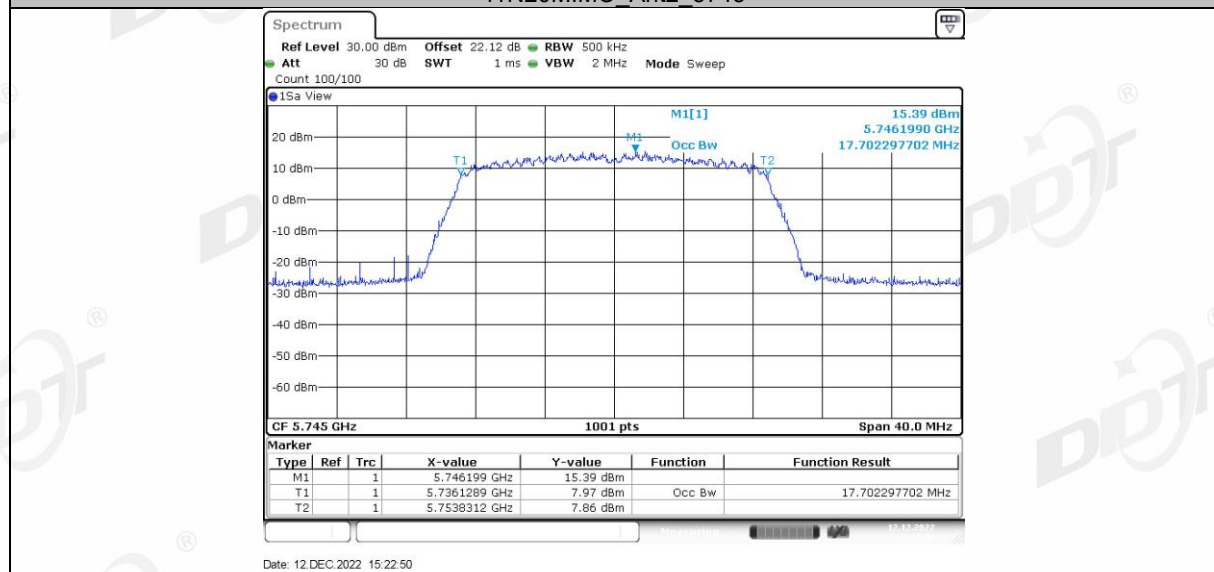
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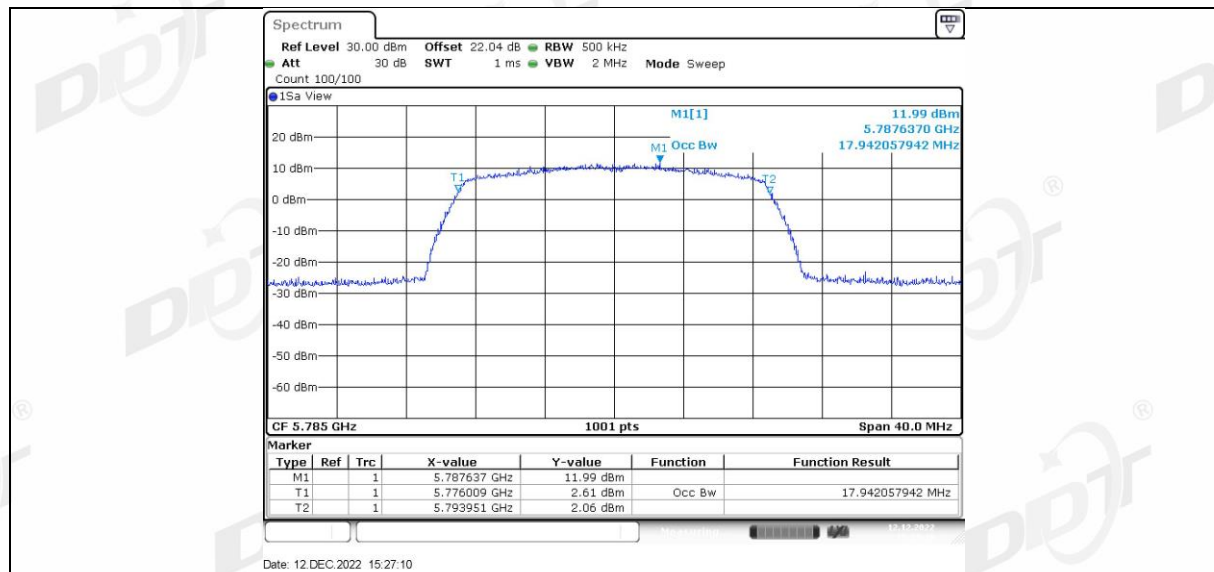
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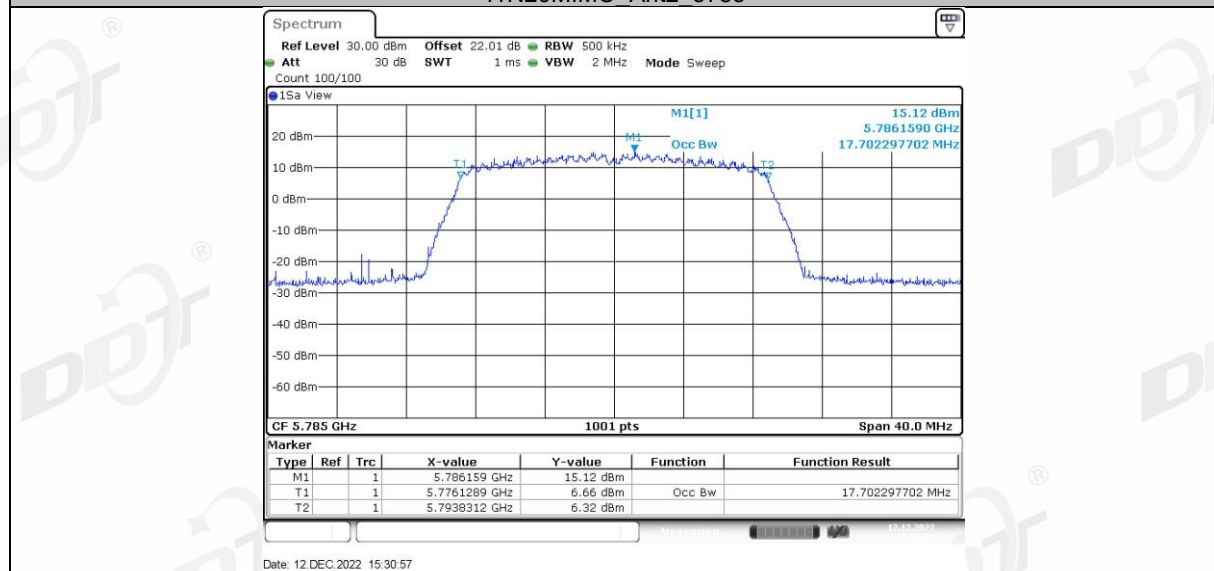
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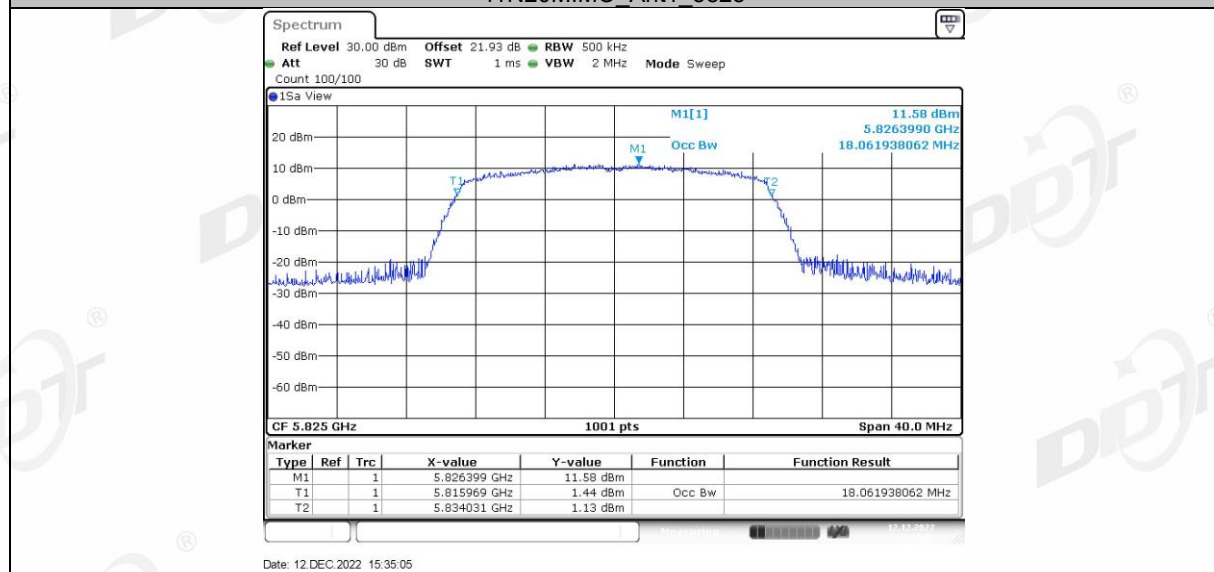
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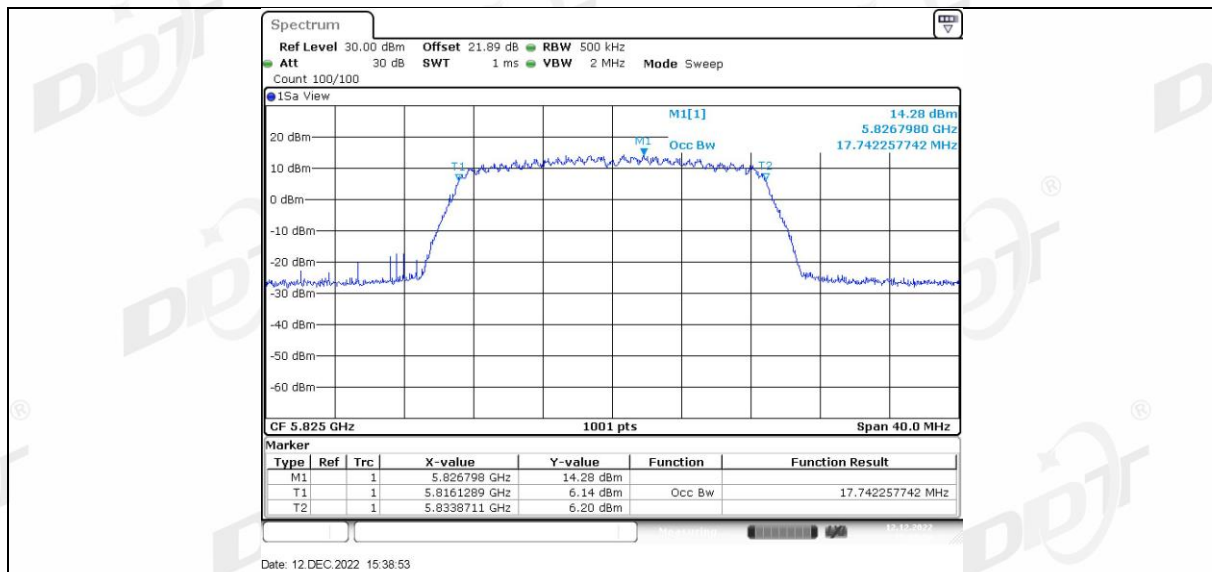
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11N20MIMO Ant1 5825



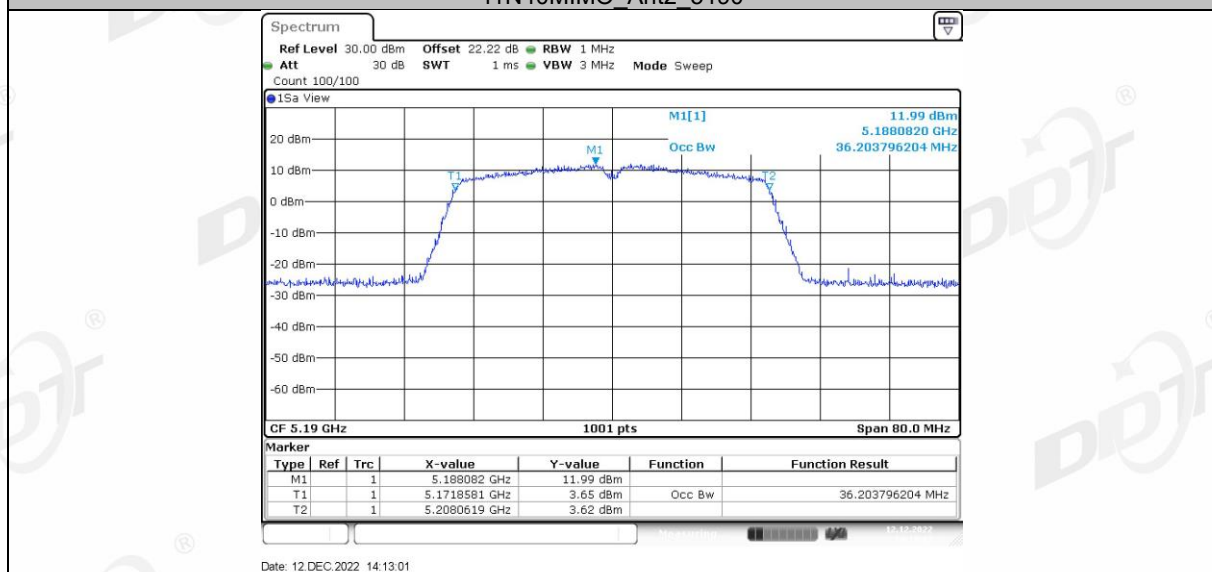
11N20MIMO Ant2 5825



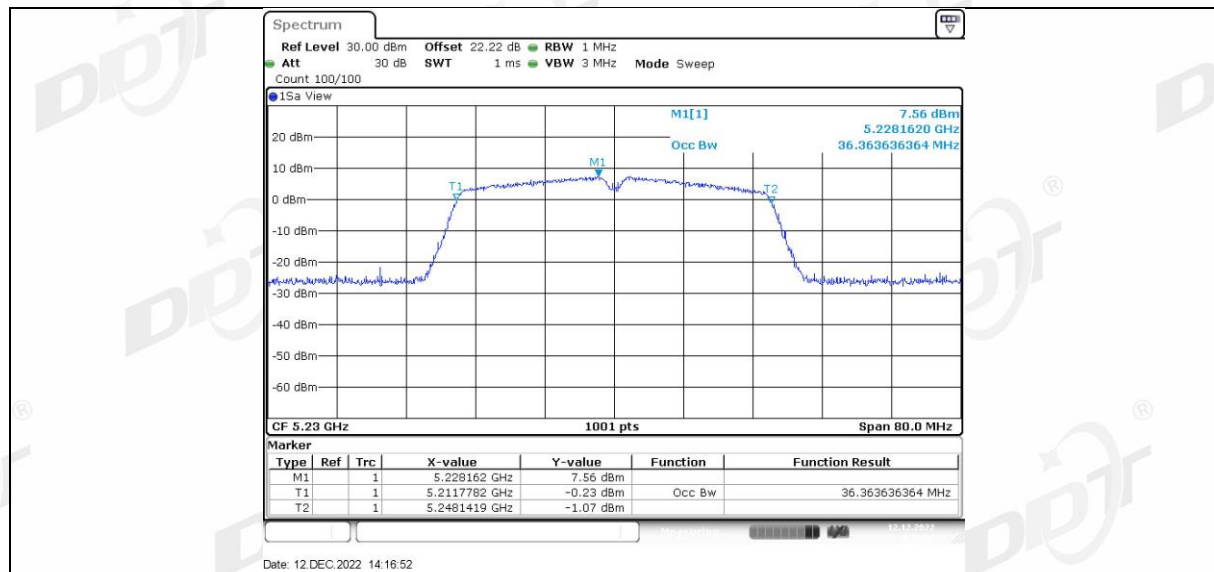
## 11N40MIMO Ant1 5190



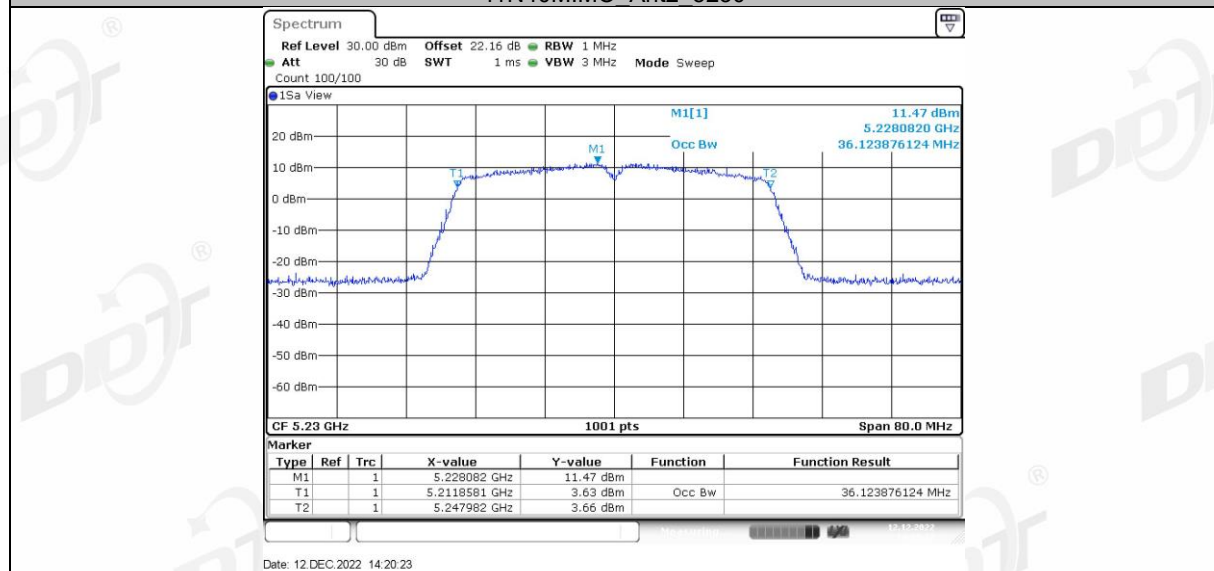
## 11N40MIMO Ant2 5190



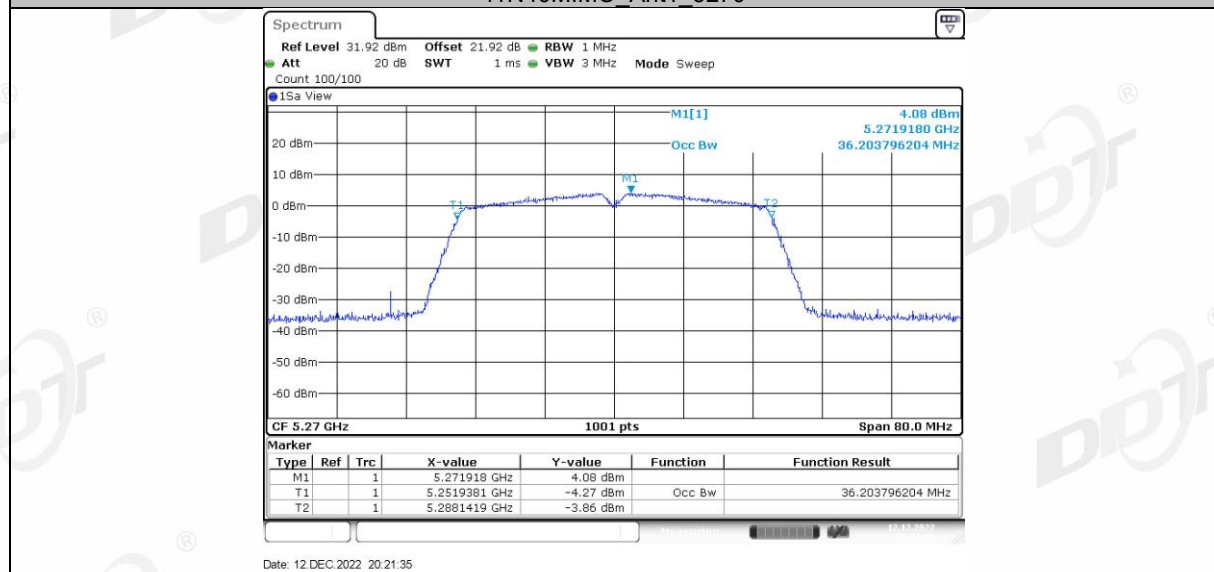
## 11N40MIMO Ant1 5230



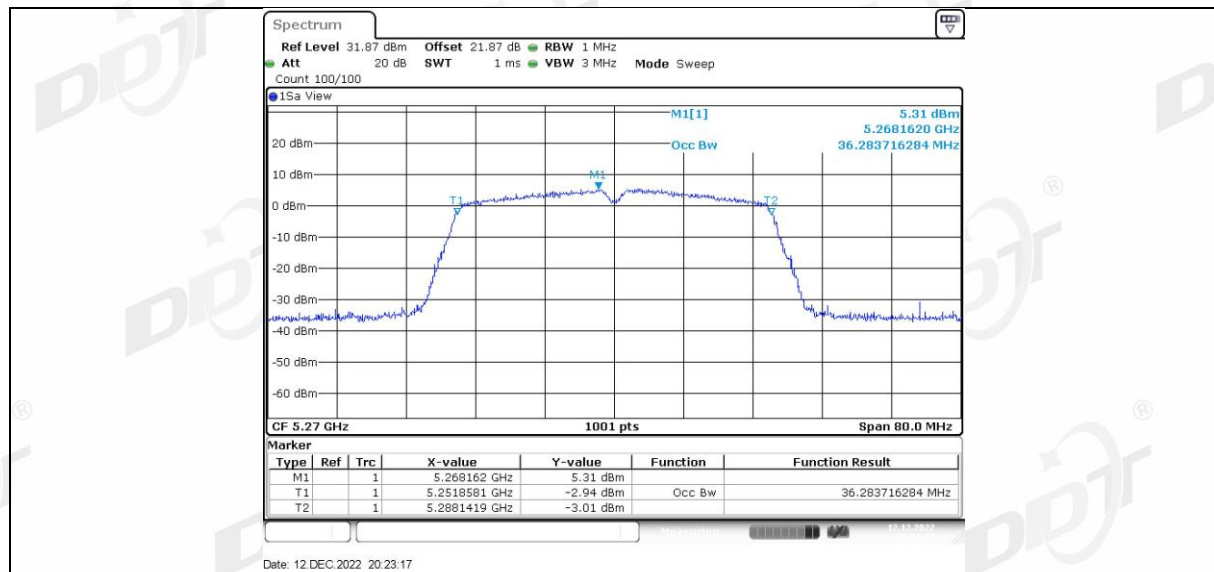
11N40MIMO Ant2 5230



11N40MIMO Ant1 5270



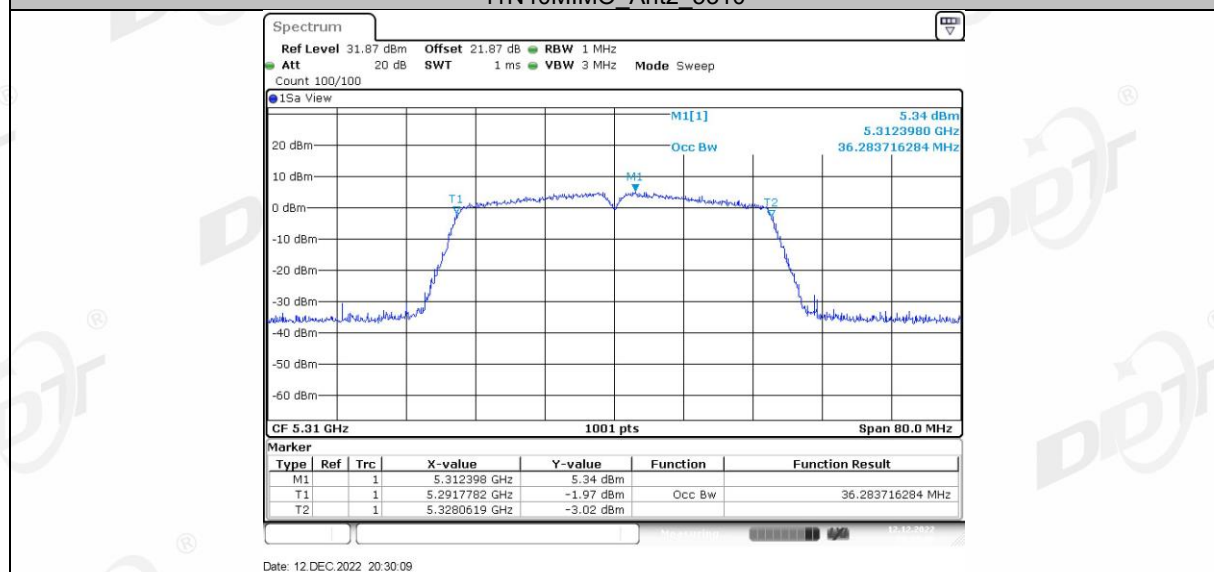
11N40MIMO Ant2 5270



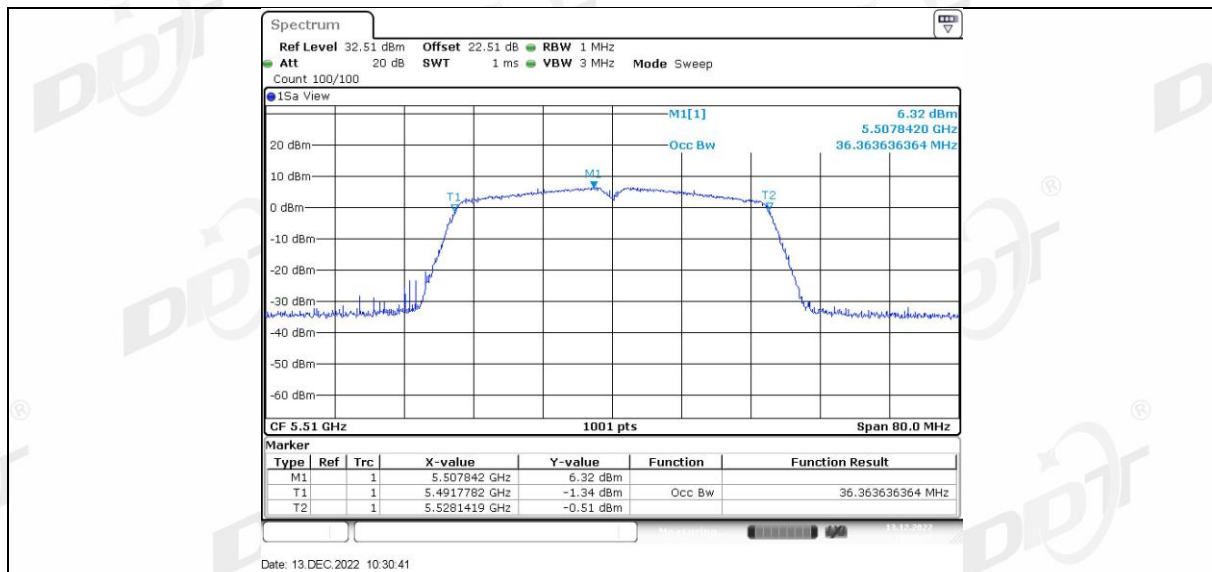
11N40MIMO Ant1 5310



11N40MIMO Ant2 5310



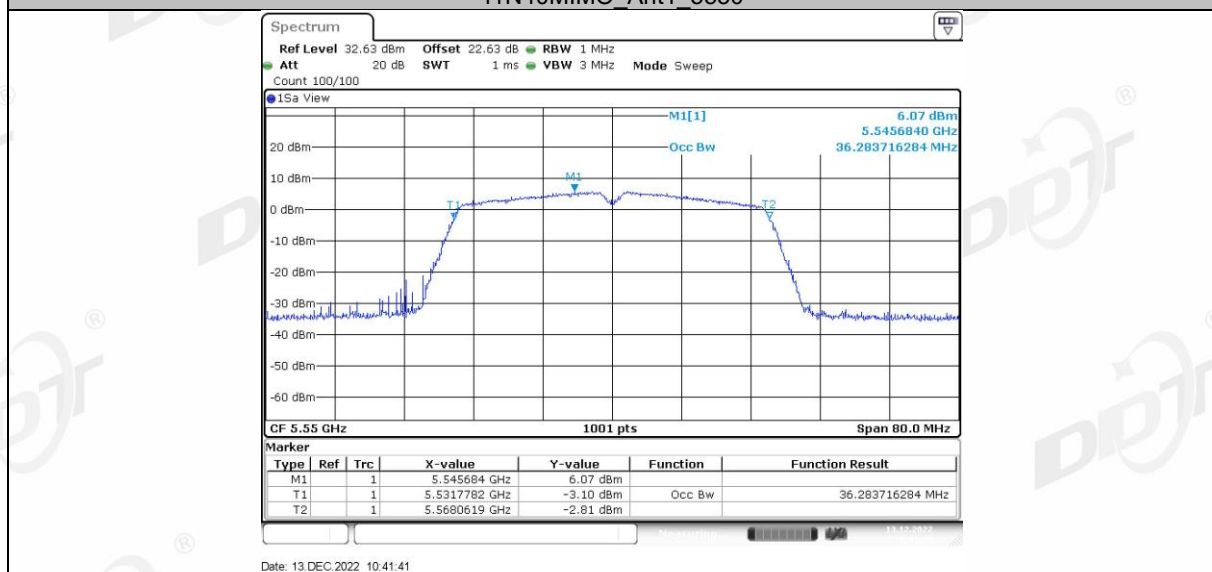
11N40MIMO Ant1 5510



11N40MIMO Ant2 5510



11N40MIMO Ant1 5550



11N40MIMO Ant2 5550