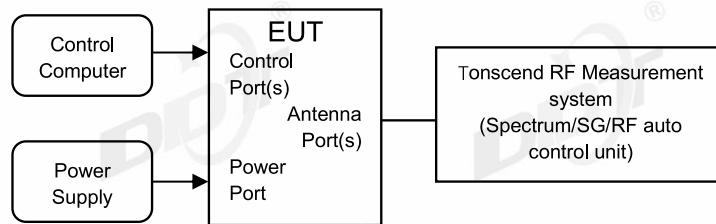


## 6. 99% Bandwidth

### 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

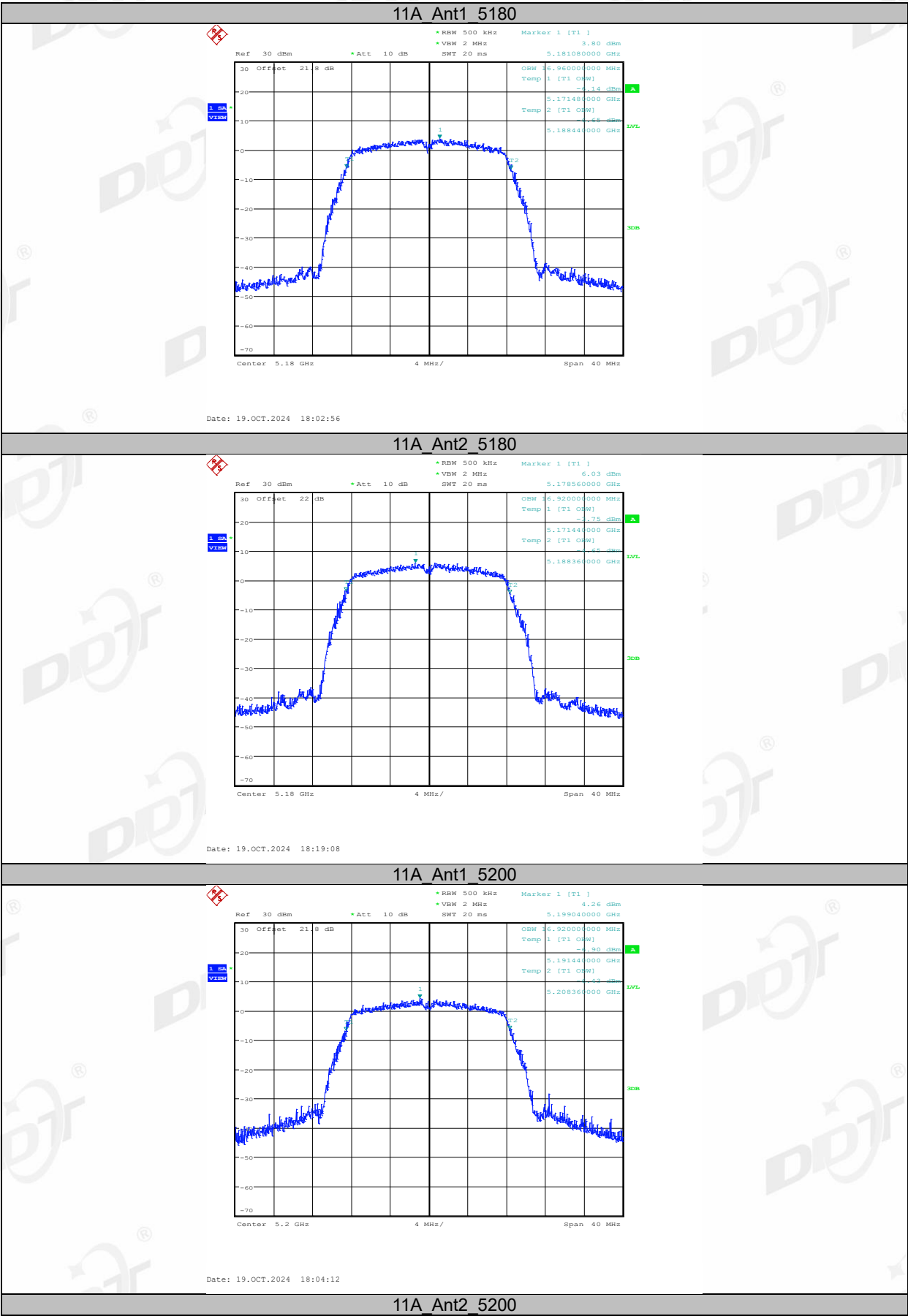
|                    |               |                |                                  |
|--------------------|---------------|----------------|----------------------------------|
| Test Engineer:     | Haofeng       | Test Site:     | RF Measurement System 1#         |
| Ambient Condition: | 24.6℃,46.8%RH | Test Date:     | 2024.10.19/2024.12.11~2024.12.13 |
| Test Power Supply: | AC120V/60Hz   | Sample Number: | S24091913-002                    |

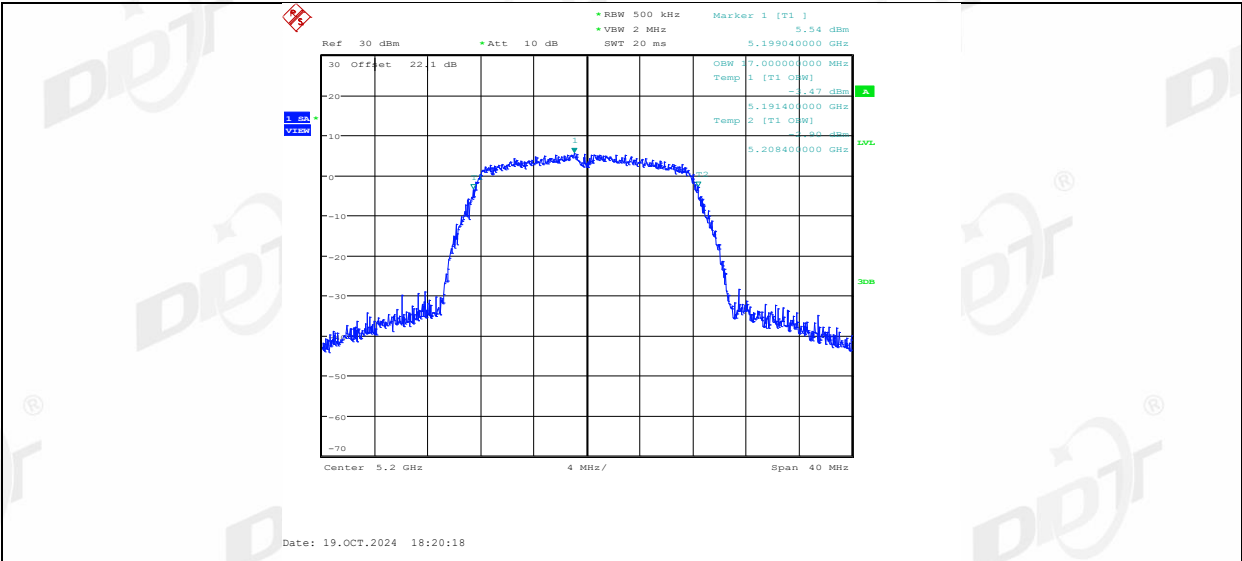
| Test Mode     | Antenna | Frequency [MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|---------------|---------|-----------------|-----------|-----------|-----------|------------|---------|
| 11A           | Ant1    | 5180            | 16.96     | 5171.4800 | 5188.4400 | ---        | ---     |
|               | Ant2    | 5180            | 16.92     | 5171.4400 | 5188.3600 | ---        | ---     |
|               | Ant1    | 5200            | 16.92     | 5191.4400 | 5208.3600 | ---        | ---     |
|               | Ant2    | 5200            | 17        | 5191.4000 | 5208.4000 | ---        | ---     |
|               | Ant1    | 5240            | 17        | 5231.3600 | 5248.3600 | ---        | ---     |
|               | Ant2    | 5240            | 17        | 5231.3600 | 5248.3600 | ---        | ---     |
|               | Ant1    | 5260            | 16.96     | 5251.3600 | 5268.3200 | ---        | ---     |
|               | Ant2    | 5260            | 16.96     | 5251.4000 | 5268.3600 | ---        | ---     |
|               | Ant1    | 5280            | 17.04     | 5271.4000 | 5288.4400 | ---        | ---     |
|               | Ant2    | 5280            | 16.92     | 5271.4000 | 5288.3200 | ---        | ---     |
|               | Ant1    | 5320            | 16.96     | 5311.4000 | 5328.3600 | ---        | ---     |
|               | Ant2    | 5320            | 17        | 5311.3600 | 5328.3600 | ---        | ---     |
|               | Ant1    | 5500            | 16.96     | 5491.4000 | 5508.3600 | ---        | ---     |
|               | Ant2    | 5500            | 16.96     | 5491.4000 | 5508.3600 | ---        | ---     |
|               | Ant1    | 5580            | 16.96     | 5571.4000 | 5588.3600 | ---        | ---     |
|               | Ant2    | 5580            | 16.92     | 5571.4000 | 5588.3200 | ---        | ---     |
|               | Ant1    | 5700            | 16.96     | 5691.3600 | 5708.3200 | ---        | ---     |
|               | Ant2    | 5700            | 16.92     | 5691.4400 | 5708.3600 | ---        | ---     |
|               | Ant1    | 5720            | 17        | 5711.3600 | 5728.3600 | ---        | ---     |
|               | Ant2    | 5720            | 16.96     | 5711.4000 | 5728.3600 | ---        | ---     |
|               | Ant1    | 5720 UNII-2C    | 13.64     | 5711.3600 | 5725      | ---        | ---     |
|               | Ant2    | 5720 UNII-2C    | 13.6      | 5711.4000 | 5725      | ---        | ---     |
|               | Ant1    | 5720 UNII-3     | 3.36      | 5725      | 5728.3600 | ---        | ---     |
|               | Ant2    | 5720 UNII-3     | 3.36      | 5725      | 5728.3600 | ---        | ---     |
|               | Ant1    | 5745            | 16.92     | 5736.4400 | 5753.3600 | ---        | ---     |
|               | Ant2    | 5745            | 16.96     | 5736.4000 | 5753.3600 | ---        | ---     |
|               | Ant1    | 5785            | 16.96     | 5776.4400 | 5793.4000 | ---        | ---     |
|               | Ant2    | 5785            | 17        | 5776.4000 | 5793.4000 | ---        | ---     |
|               | Ant1    | 5825            | 16.92     | 5816.4000 | 5833.3200 | ---        | ---     |
|               | Ant2    | 5825            | 17        | 5816.3600 | 5833.3600 | ---        | ---     |
| 11N20MIM<br>O | Ant1    | 5180            | 17.88     | 5170.9600 | 5188.8400 | ---        | ---     |
|               | Ant2    | 5180            | 17.8      | 5171.0000 | 5188.8000 | ---        | ---     |
|               | Ant1    | 5200            | 17.88     | 5190.9600 | 5208.8400 | ---        | ---     |
|               | Ant2    | 5200            | 17.76     | 5191.0000 | 5208.7600 | ---        | ---     |
|               | Ant1    | 5240            | 17.92     | 5230.9200 | 5248.8400 | ---        | ---     |
|               | Ant2    | 5240            | 17.76     | 5231.0000 | 5248.7600 | ---        | ---     |
|               | Ant1    | 5260            | 17.92     | 5250.9200 | 5268.8400 | ---        | ---     |
|               | Ant2    | 5260            | 17.84     | 5250.9600 | 5268.8000 | ---        | ---     |
|               | Ant1    | 5280            | 17.92     | 5270.9200 | 5288.8400 | ---        | ---     |
|               | Ant2    | 5280            | 17.8      | 5271.0000 | 5288.8000 | ---        | ---     |
|               | Ant1    | 5320            | 17.88     | 5310.9600 | 5328.8400 | ---        | ---     |
|               | Ant2    | 5320            | 17.84     | 5310.9600 | 5328.8000 | ---        | ---     |
|               | Ant1    | 5500            | 17.92     | 5490.9600 | 5508.8800 | ---        | ---     |
|               | Ant2    | 5500            | 17.88     | 5490.9600 | 5508.8400 | ---        | ---     |
|               | Ant1    | 5580            | 17.96     | 5570.9200 | 5588.8800 | ---        | ---     |
|               | Ant2    | 5580            | 17.8      | 5571.0000 | 5588.8000 | ---        | ---     |
|               | Ant1    | 5700            | 17.92     | 5690.8800 | 5708.8000 | ---        | ---     |
|               | Ant2    | 5700            | 17.8      | 5690.9600 | 5708.7600 | ---        | ---     |
|               | Ant1    | 5720            | 17.88     | 5710.9200 | 5728.8000 | ---        | ---     |
|               | Ant2    | 5720            | 17.8      | 5710.9600 | 5728.7600 | ---        | ---     |
|               | Ant1    | 5720 UNII-2C    | 14.08     | 5710.9200 | 5725      | ---        | ---     |
|               | Ant2    | 5720 UNII-2C    | 14.04     | 5710.9600 | 5725      | ---        | ---     |
|               | Ant1    | 5720 UNII-3     | 3.8       | 5725      | 5728.8000 | ---        | ---     |
|               | Ant2    | 5720 UNII-3     | 3.76      | 5725      | 5728.7600 | ---        | ---     |
|               | Ant1    | 5745            | 17.88     | 5735.9600 | 5753.8400 | ---        | ---     |

|                |      |              |       |           |           |     |     |
|----------------|------|--------------|-------|-----------|-----------|-----|-----|
|                | Ant2 | 5745         | 17.8  | 5735.9600 | 5753.7600 | --- | --- |
|                | Ant1 | 5785         | 17.88 | 5775.9200 | 5793.8000 | --- | --- |
|                | Ant2 | 5785         | 17.8  | 5776.0000 | 5793.8000 | --- | --- |
|                | Ant1 | 5825         | 17.84 | 5815.9600 | 5833.8000 | --- | --- |
|                | Ant2 | 5825         | 17.84 | 5815.9600 | 5833.8000 | --- | --- |
| 11N40MIM<br>O  | Ant1 | 5190         | 36.24 | 5171.7600 | 5208.0000 | --- | --- |
|                | Ant2 | 5190         | 36.24 | 5171.7600 | 5208.0000 | --- | --- |
|                | Ant1 | 5230         | 36.24 | 5211.7600 | 5248.0000 | --- | --- |
|                | Ant2 | 5230         | 36.32 | 5211.6800 | 5248.0000 | --- | --- |
|                | Ant1 | 5270         | 36.32 | 5251.7600 | 5288.0800 | --- | --- |
|                | Ant2 | 5270         | 36.24 | 5251.7600 | 5288.0000 | --- | --- |
|                | Ant1 | 5310         | 36.32 | 5291.7600 | 5328.0800 | --- | --- |
|                | Ant2 | 5310         | 36.24 | 5291.7600 | 5328.0000 | --- | --- |
|                | Ant1 | 5510         | 36.32 | 5491.7600 | 5528.0800 | --- | --- |
|                | Ant2 | 5510         | 36.32 | 5491.7600 | 5528.0800 | --- | --- |
|                | Ant1 | 5550         | 36.24 | 5531.7600 | 5568.0000 | --- | --- |
|                | Ant2 | 5550         | 36.24 | 5531.8400 | 5568.0800 | --- | --- |
|                | Ant1 | 5670         | 36.32 | 5651.6800 | 5688.0000 | --- | --- |
|                | Ant2 | 5670         | 36.24 | 5651.7600 | 5688.0000 | --- | --- |
|                | Ant1 | 5710         | 36.24 | 5691.7600 | 5728.0000 | --- | --- |
|                | Ant2 | 5710         | 36.32 | 5691.6800 | 5728.0000 | --- | --- |
|                | Ant1 | 5710 UNII-2C | 33.24 | 5691.7600 | 5725      | --- | --- |
|                | Ant2 | 5710 UNII-2C | 33.32 | 5691.6800 | 5725      | --- | --- |
|                | Ant1 | 5710 UNII-3  | 3     | 5725      | 5728.0000 | --- | --- |
|                | Ant2 | 5710 UNII-3  | 3     | 5725      | 5728.0000 | --- | --- |
|                | Ant1 | 5755         | 36.32 | 5736.7600 | 5773.0800 | --- | --- |
|                | Ant2 | 5755         | 36.24 | 5736.7600 | 5773.0000 | --- | --- |
|                | Ant1 | 5795         | 36.16 | 5776.7600 | 5812.9200 | --- | --- |
|                | Ant2 | 5795         | 36.4  | 5776.6800 | 5813.0800 | --- | --- |
| 11AC20MI<br>MO | Ant1 | 5180         | 17.88 | 5170.9600 | 5188.8400 | --- | --- |
|                | Ant2 | 5180         | 17.8  | 5171.0000 | 5188.8000 | --- | --- |
|                | Ant1 | 5200         | 17.88 | 5190.9200 | 5208.8000 | --- | --- |
|                | Ant2 | 5200         | 17.8  | 5191.0000 | 5208.8000 | --- | --- |
|                | Ant1 | 5240         | 17.88 | 5230.9200 | 5248.8000 | --- | --- |
|                | Ant2 | 5240         | 17.76 | 5231.0000 | 5248.7600 | --- | --- |
|                | Ant1 | 5260         | 17.88 | 5250.9600 | 5268.8400 | --- | --- |
|                | Ant2 | 5260         | 17.8  | 5251.0000 | 5268.8000 | --- | --- |
|                | Ant1 | 5280         | 17.88 | 5270.9600 | 5288.8400 | --- | --- |
|                | Ant2 | 5280         | 17.8  | 5270.9600 | 5288.7600 | --- | --- |
|                | Ant1 | 5320         | 18.04 | 5310.8800 | 5328.9200 | --- | --- |
|                | Ant2 | 5320         | 17.8  | 5311.0000 | 5328.8000 | --- | --- |
|                | Ant1 | 5500         | 17.84 | 5491.0000 | 5508.8400 | --- | --- |
|                | Ant2 | 5500         | 17.8  | 5491.0000 | 5508.8000 | --- | --- |
|                | Ant1 | 5580         | 17.88 | 5570.9600 | 5588.8400 | --- | --- |
|                | Ant2 | 5580         | 17.8  | 5571.0000 | 5588.8000 | --- | --- |
|                | Ant1 | 5700         | 17.88 | 5690.9200 | 5708.8000 | --- | --- |
|                | Ant2 | 5700         | 17.76 | 5691.0000 | 5708.7600 | --- | --- |
|                | Ant1 | 5720         | 17.88 | 5710.9200 | 5728.8000 | --- | --- |
|                | Ant2 | 5720         | 17.8  | 5711.0000 | 5728.8000 | --- | --- |
|                | Ant1 | 5720 UNII-2C | 14.08 | 5710.9200 | 5725      | --- | --- |
|                | Ant2 | 5720 UNII-2C | 14    | 5711.0000 | 5725      | --- | --- |
|                | Ant1 | 5720 UNII-3  | 3.8   | 5725      | 5728.8000 | --- | --- |
|                | Ant2 | 5720 UNII-3  | 3.8   | 5725      | 5728.8000 | --- | --- |
|                | Ant1 | 5745         | 17.88 | 5735.9600 | 5753.8400 | --- | --- |
|                | Ant2 | 5745         | 17.84 | 5735.9600 | 5753.8000 | --- | --- |
|                | Ant1 | 5785         | 17.88 | 5775.9600 | 5793.8400 | --- | --- |
|                | Ant2 | 5785         | 17.8  | 5775.9600 | 5793.7600 | --- | --- |
|                | Ant1 | 5825         | 17.88 | 5815.9600 | 5833.8400 | --- | --- |
|                | Ant2 | 5825         | 17.84 | 5815.9600 | 5833.8000 | --- | --- |
| 11AC40MI<br>MO | Ant1 | 5190         | 36.24 | 5171.7600 | 5208.0000 | --- | --- |
|                | Ant2 | 5190         | 36.24 | 5171.7600 | 5208.0000 | --- | --- |
|                | Ant1 | 5230         | 36.24 | 5211.7600 | 5248.0000 | --- | --- |
|                | Ant2 | 5230         | 36.32 | 5211.6800 | 5248.0000 | --- | --- |
|                | Ant1 | 5270         | 36.32 | 5251.6800 | 5288.0000 | --- | --- |

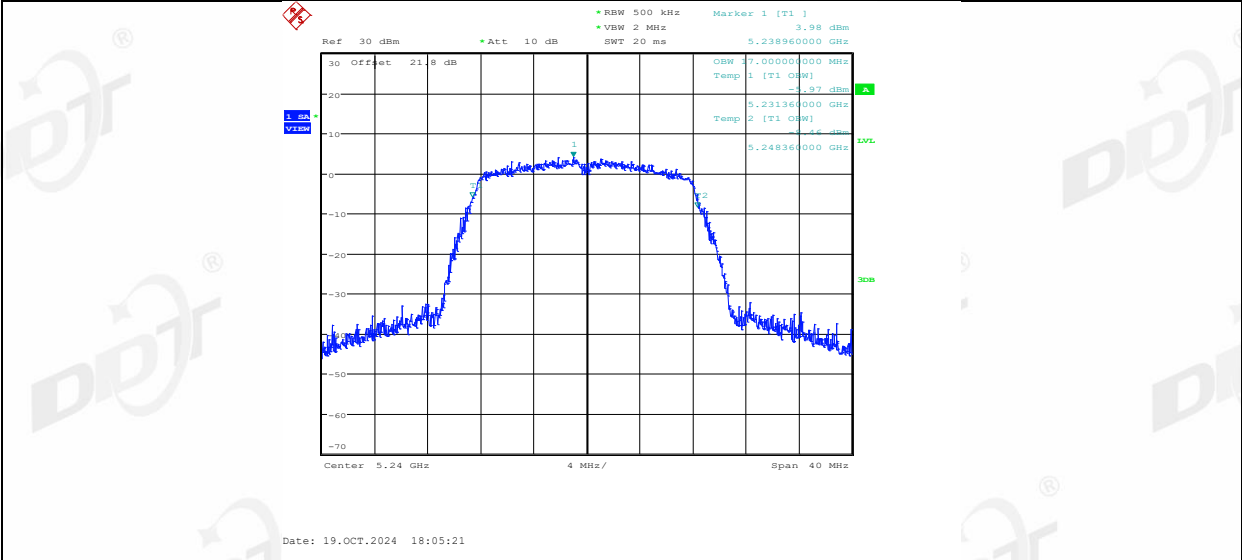
|                |      |              |       |           |           |     |     |
|----------------|------|--------------|-------|-----------|-----------|-----|-----|
|                | Ant2 | 5270         | 36.32 | 5251.7600 | 5288.0800 | --- | --- |
|                | Ant1 | 5310         | 36.24 | 5291.7600 | 5328.0000 | --- | --- |
|                | Ant2 | 5310         | 36.24 | 5291.7600 | 5328.0000 | --- | --- |
|                | Ant1 | 5510         | 36.24 | 5491.8400 | 5528.0800 | --- | --- |
|                | Ant2 | 5510         | 36.32 | 5491.7600 | 5528.0800 | --- | --- |
|                | Ant1 | 5550         | 36.24 | 5531.7600 | 5568.0000 | --- | --- |
|                | Ant2 | 5550         | 36.32 | 5531.7600 | 5568.0800 | --- | --- |
|                | Ant1 | 5670         | 36.32 | 5651.6800 | 5688.0000 | --- | --- |
|                | Ant2 | 5670         | 36.24 | 5651.6800 | 5687.9200 | --- | --- |
|                | Ant1 | 5710         | 36.24 | 5691.6800 | 5727.9200 | --- | --- |
|                | Ant2 | 5710         | 36.32 | 5691.6800 | 5728.0000 | --- | --- |
|                | Ant1 | 5710 UNII-2C | 33.32 | 5691.6800 | 5725      | --- | --- |
|                | Ant2 | 5710 UNII-2C | 33.32 | 5691.6800 | 5725      | --- | --- |
|                | Ant1 | 5710 UNII-3  | 2.92  | 5725      | 5727.9200 | --- | --- |
|                | Ant2 | 5710 UNII-3  | 3     | 5725      | 5728.0000 | --- | --- |
|                | Ant1 | 5755         | 36.32 | 5736.7600 | 5773.0800 | --- | --- |
|                | Ant2 | 5755         | 36.32 | 5736.6800 | 5773.0000 | --- | --- |
|                | Ant1 | 5795         | 36.24 | 5776.6800 | 5812.9200 | --- | --- |
|                | Ant2 | 5795         | 36.24 | 5776.7600 | 5813.0000 | --- | --- |
| 11AC80MI<br>MO | Ant1 | 5210         | 75.68 | 5171.9200 | 5247.6000 | --- | --- |
|                | Ant2 | 5210         | 75.84 | 5171.9200 | 5247.7600 | --- | --- |
|                | Ant1 | 5290         | 75.84 | 5251.9200 | 5327.7600 | --- | --- |
|                | Ant2 | 5290         | 75.84 | 5251.9200 | 5327.7600 | --- | --- |
|                | Ant1 | 5530         | 75.84 | 5492.0800 | 5567.9200 | --- | --- |
|                | Ant2 | 5530         | 75.84 | 5492.0800 | 5567.9200 | --- | --- |
|                | Ant1 | 5610         | 75.84 | 5571.9200 | 5647.7600 | --- | --- |
|                | Ant2 | 5610         | 75.84 | 5571.9200 | 5647.7600 | --- | --- |
|                | Ant1 | 5690         | 76    | 5651.7600 | 5727.7600 | --- | --- |
|                | Ant2 | 5690         | 75.68 | 5651.9200 | 5727.6000 | --- | --- |
|                | Ant1 | 5690 UNII-2C | 73.24 | 5651.7600 | 5725      | --- | --- |
|                | Ant2 | 5690 UNII-2C | 73.08 | 5651.9200 | 5725      | --- | --- |
|                | Ant1 | 5690 UNII-3  | 2.76  | 5725      | 5727.7600 | --- | --- |
|                | Ant2 | 5690 UNII-3  | 2.6   | 5725      | 5727.6000 | --- | --- |
|                | Ant1 | 5775         | 75.68 | 5736.9200 | 5812.6000 | --- | --- |
|                | Ant2 | 5775         | 75.68 | 5737.0800 | 5812.7600 | --- | --- |

6.5. Test graphs

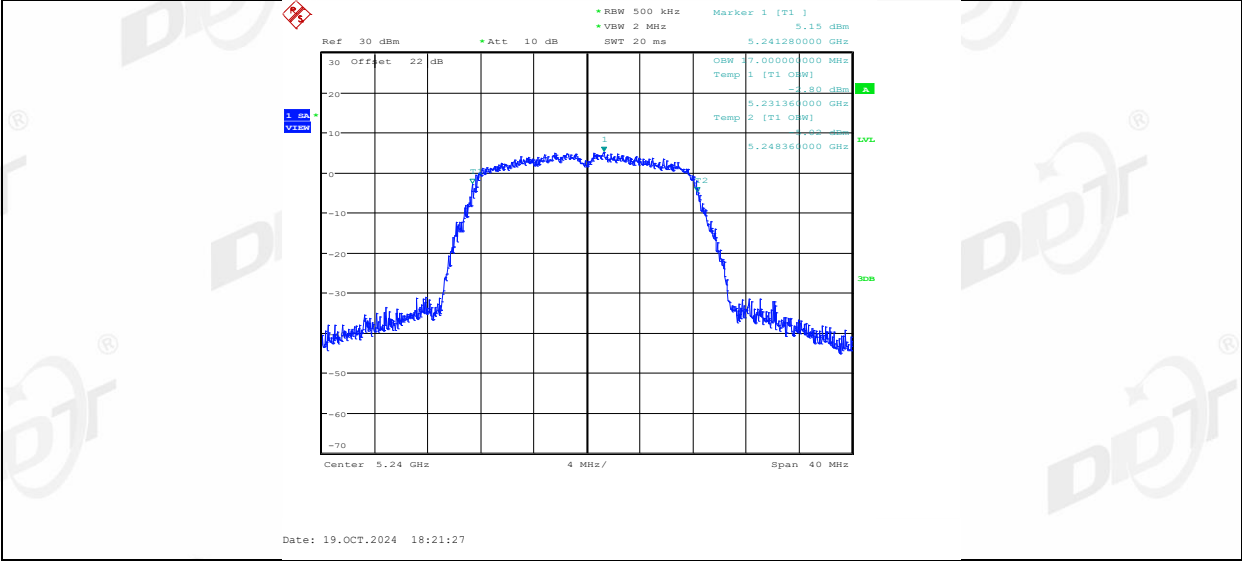




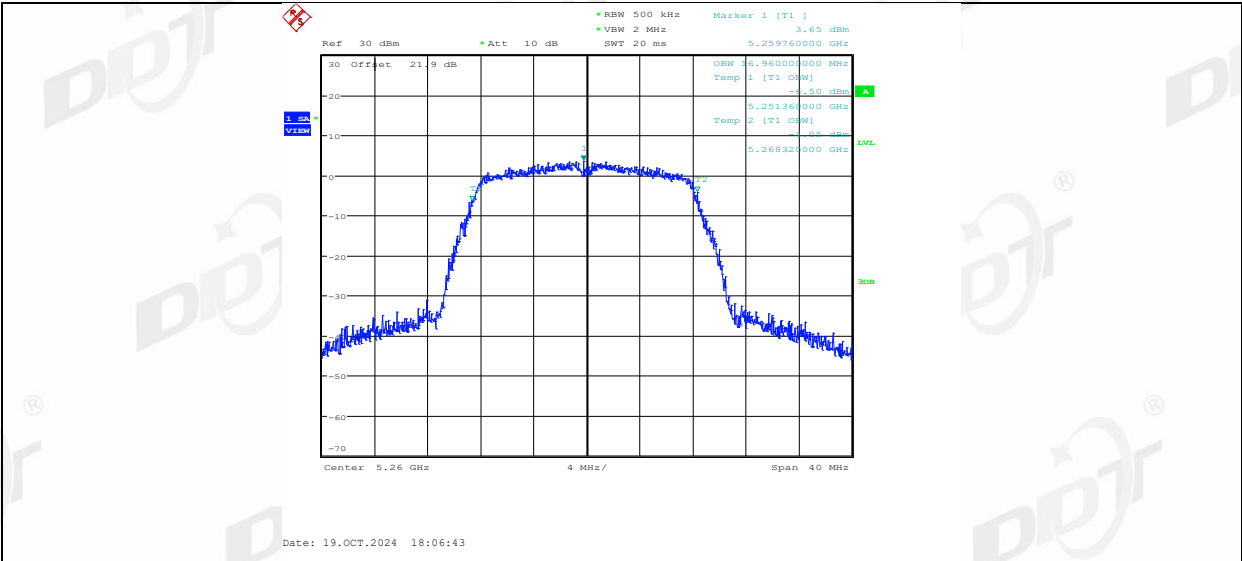
11A\_Ant1\_5240



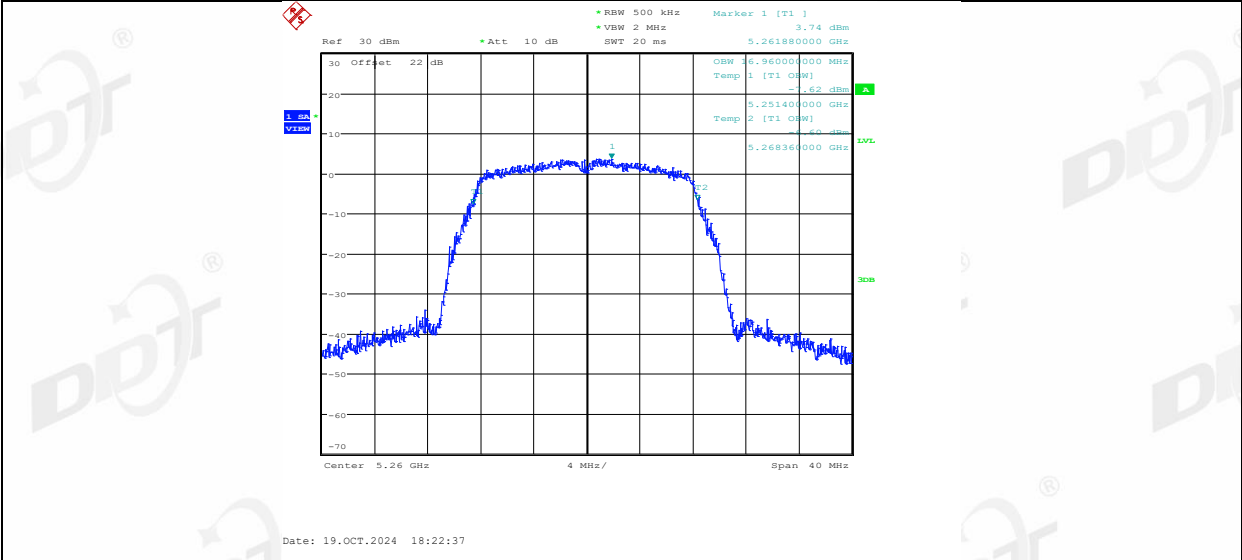
11A\_Ant2\_5240



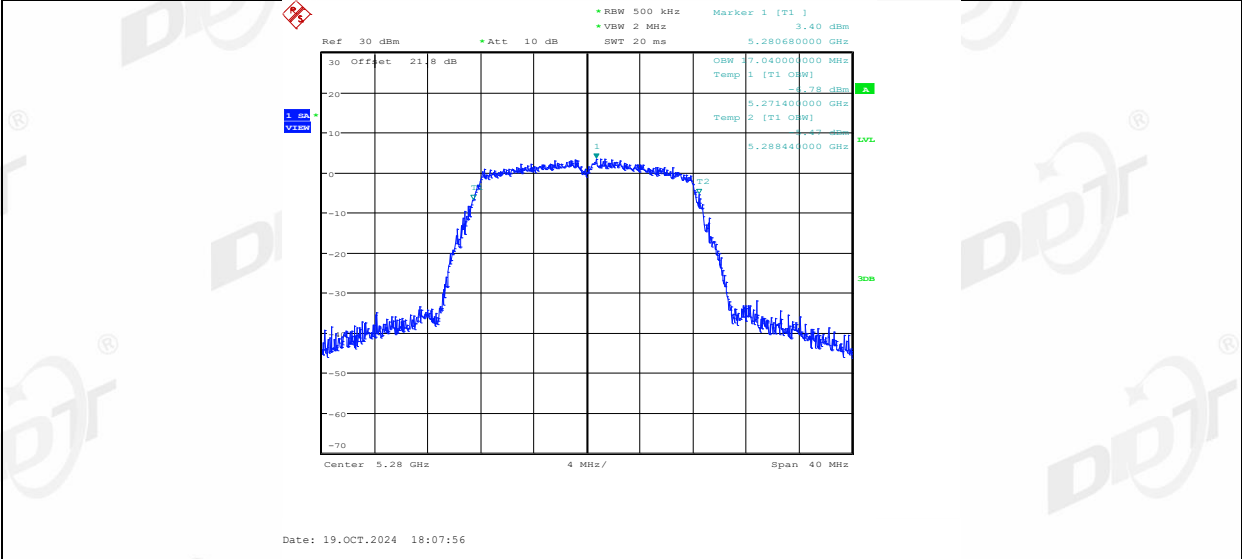
11A\_Ant1\_5260



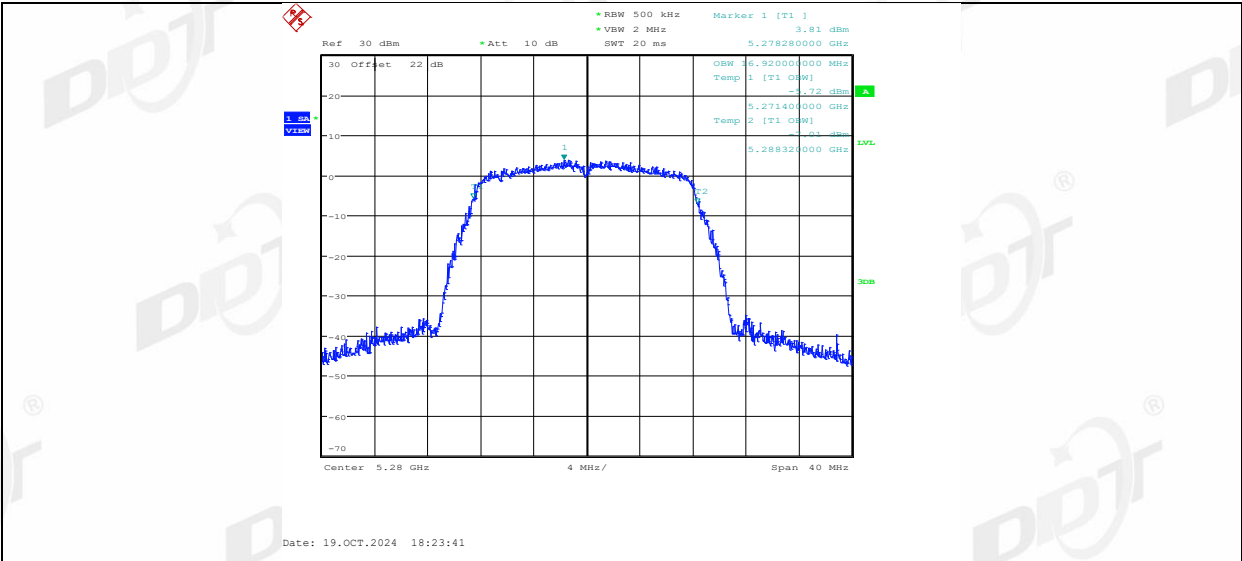
11A\_Ant2\_5260



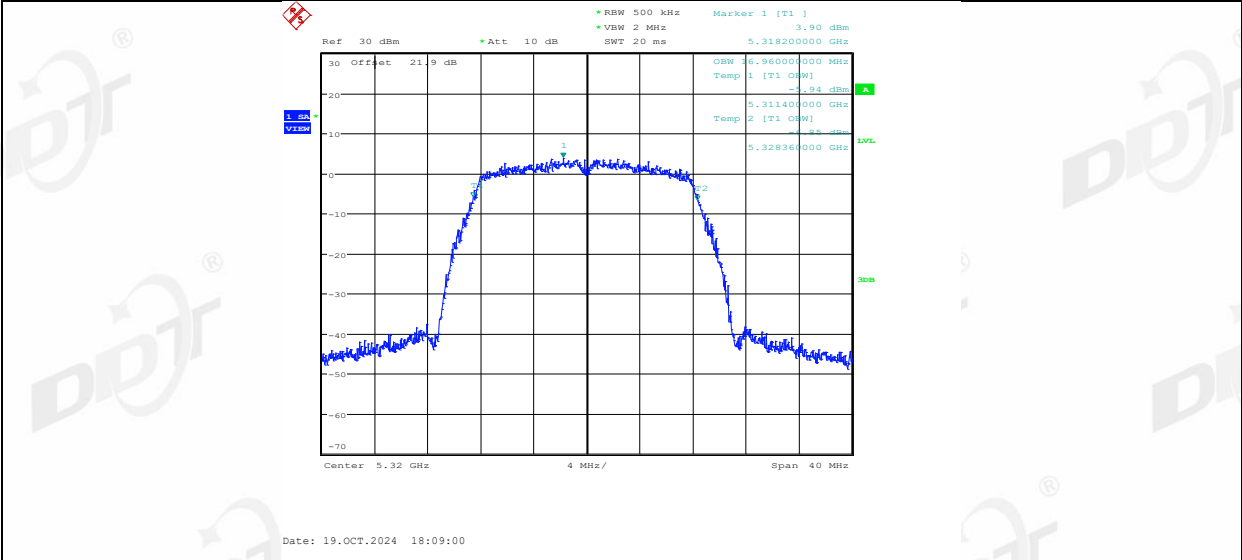
11A\_Ant1\_5280



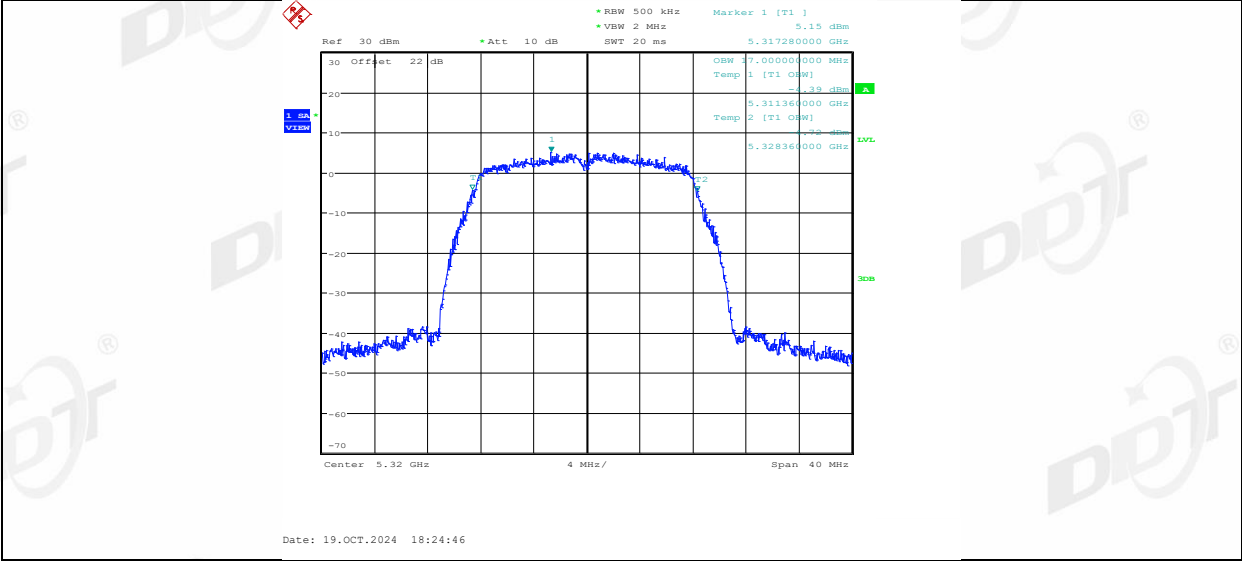
11A\_Ant2\_5280



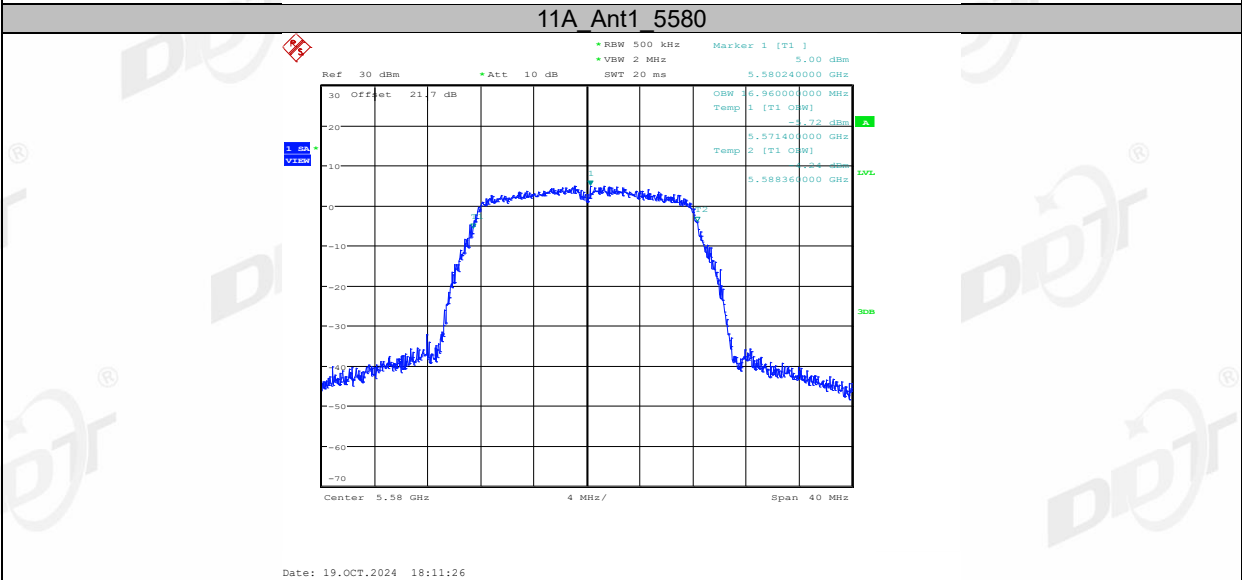
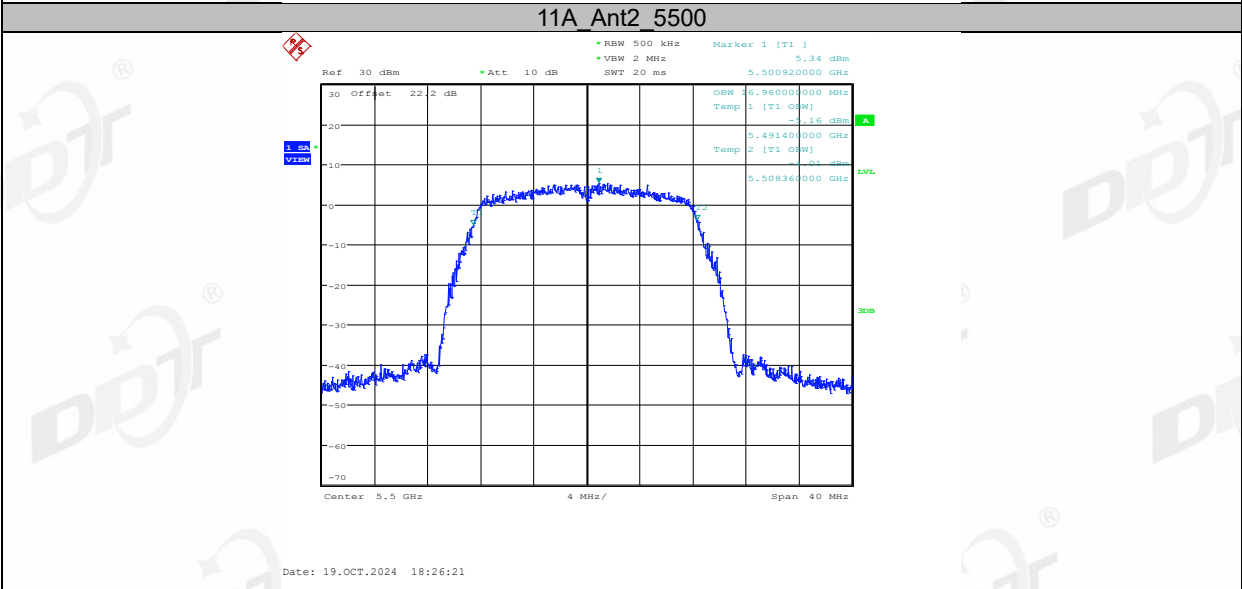
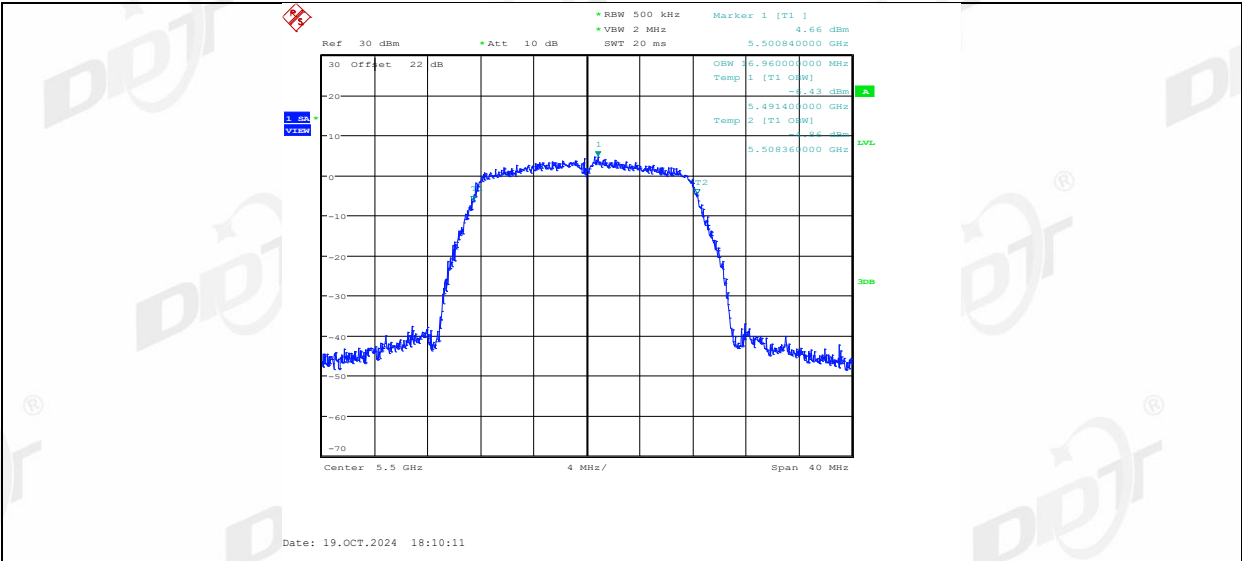
11A\_Ant1\_5320



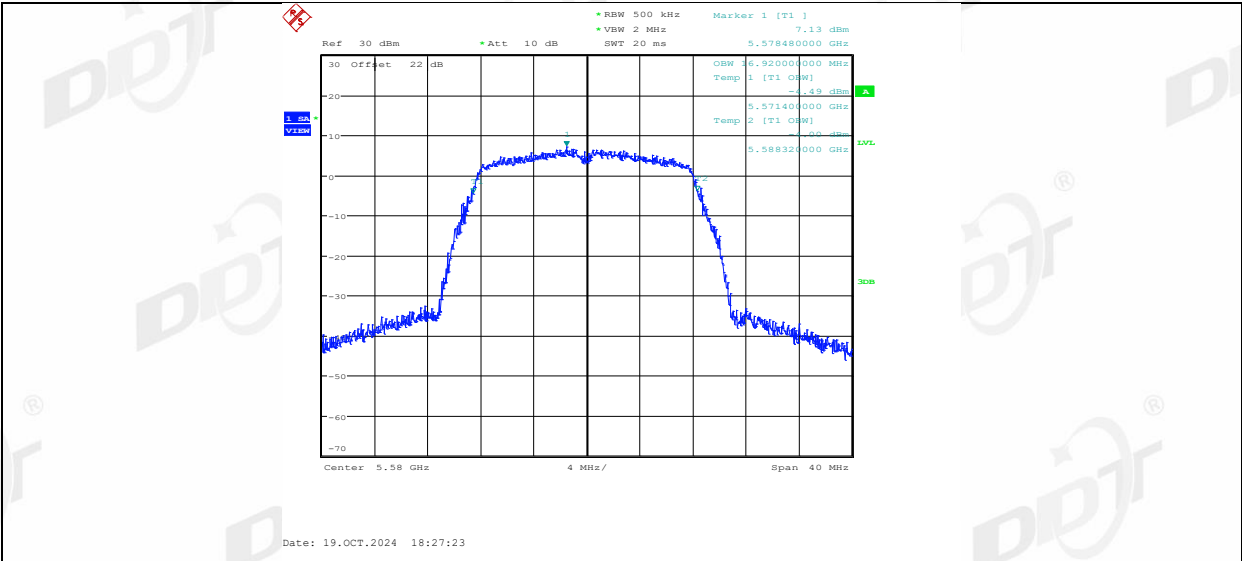
11A\_Ant2\_5320



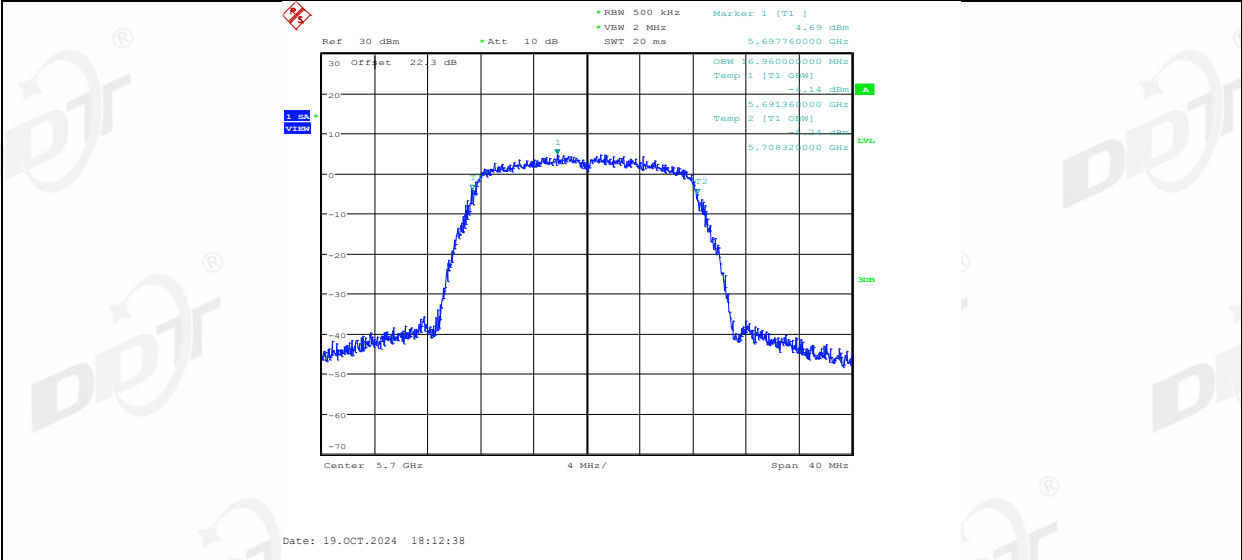
11A\_Ant1\_5500



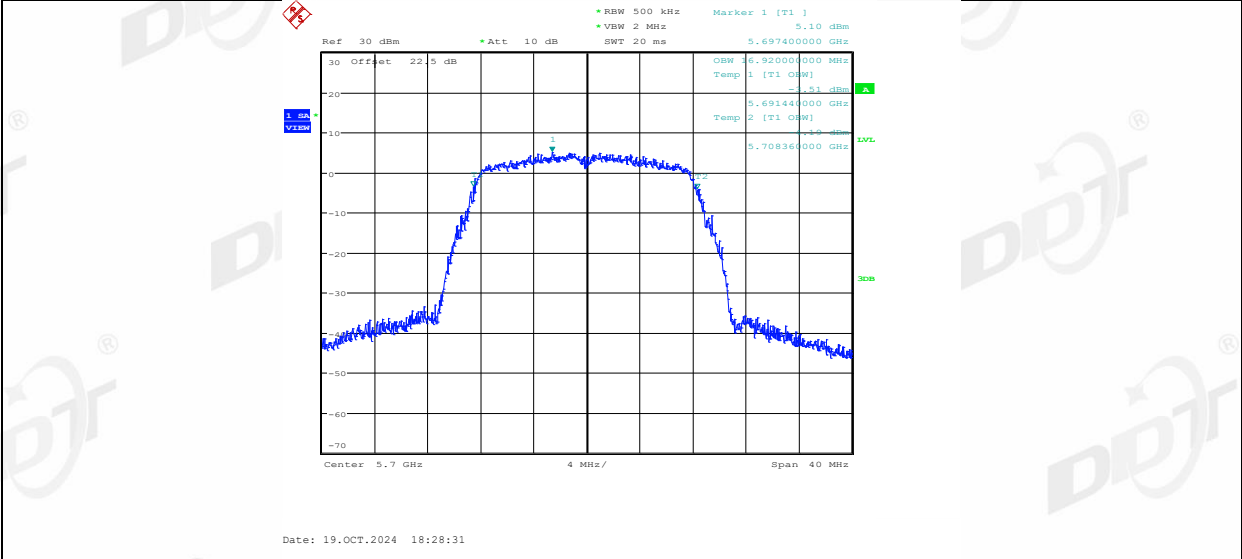
11A\_Ant2\_5580



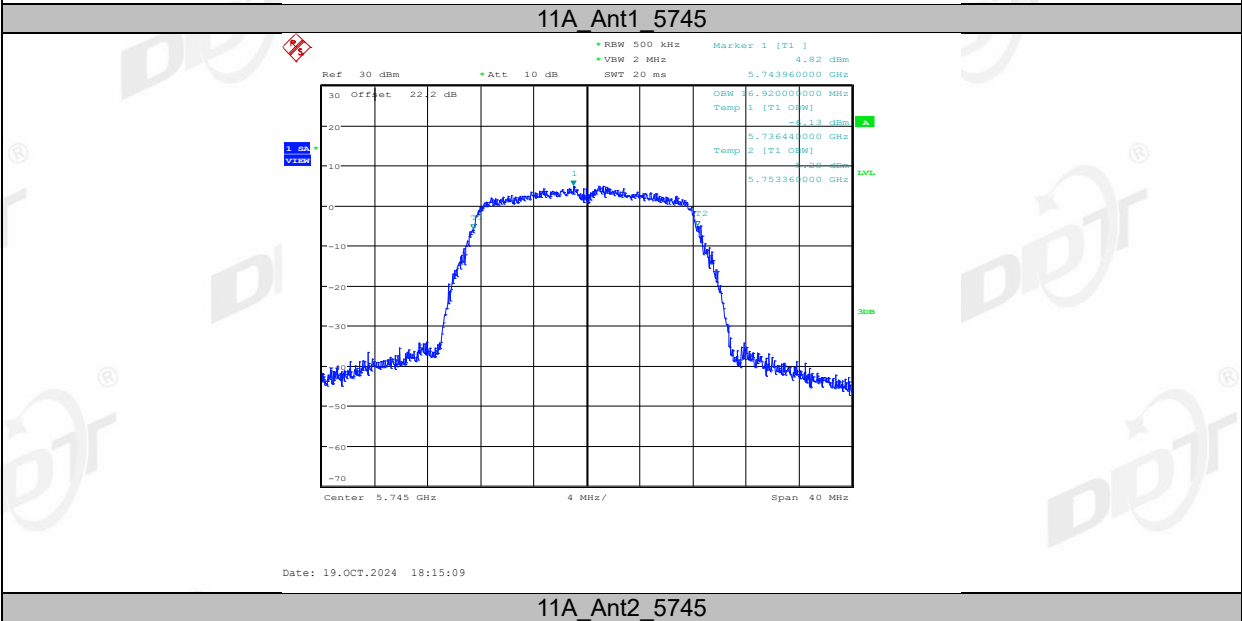
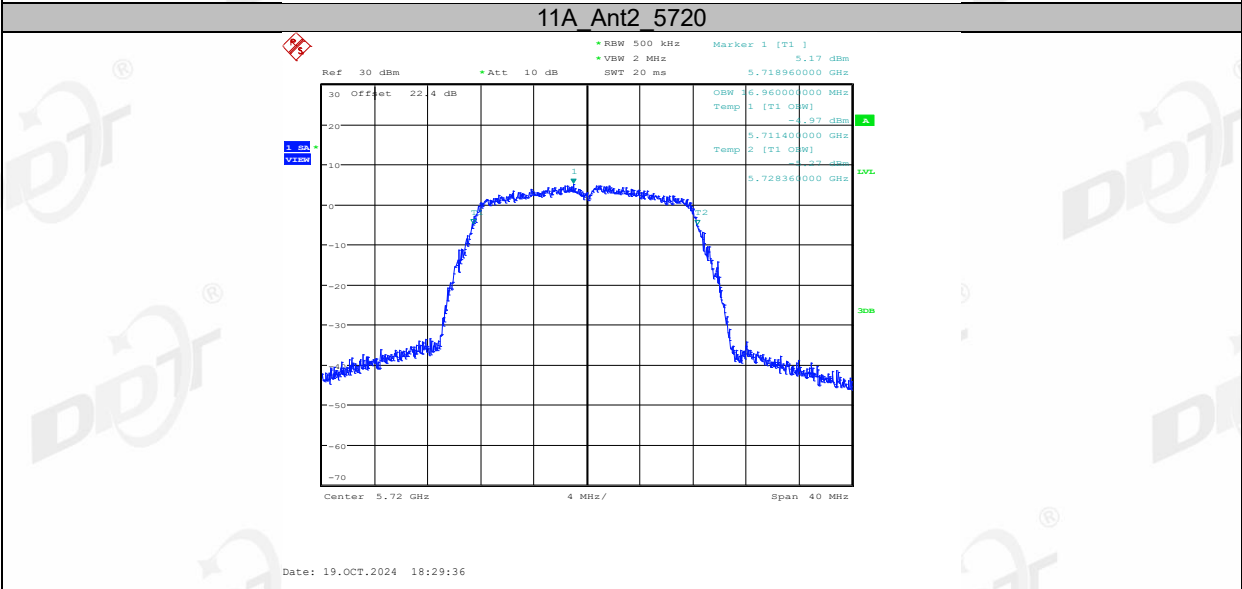
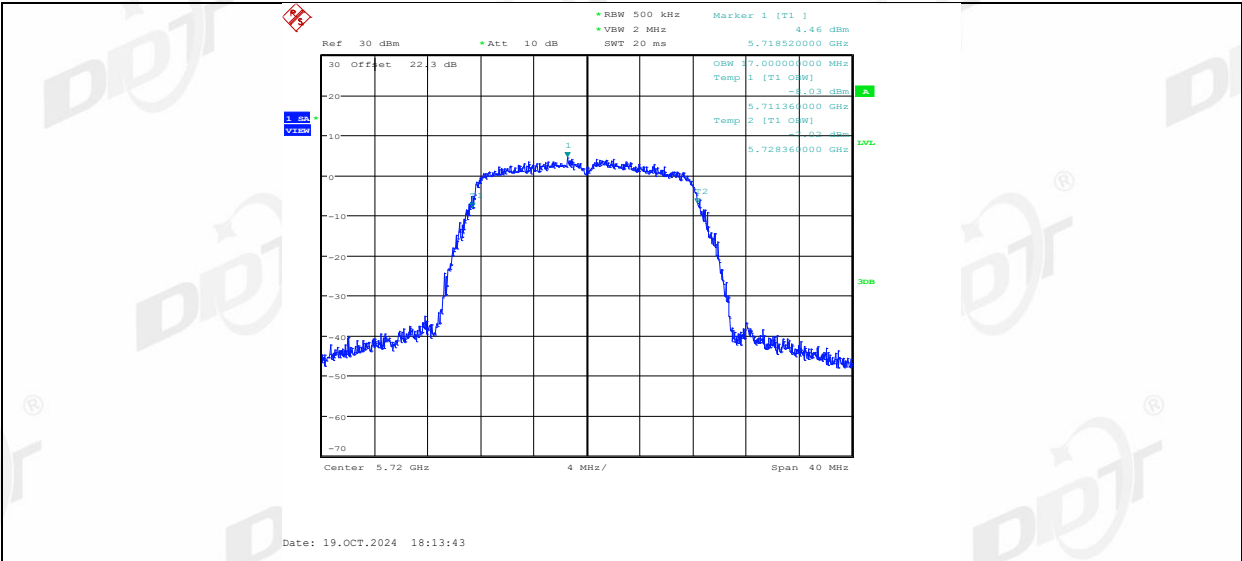
11A\_Ant1\_5700

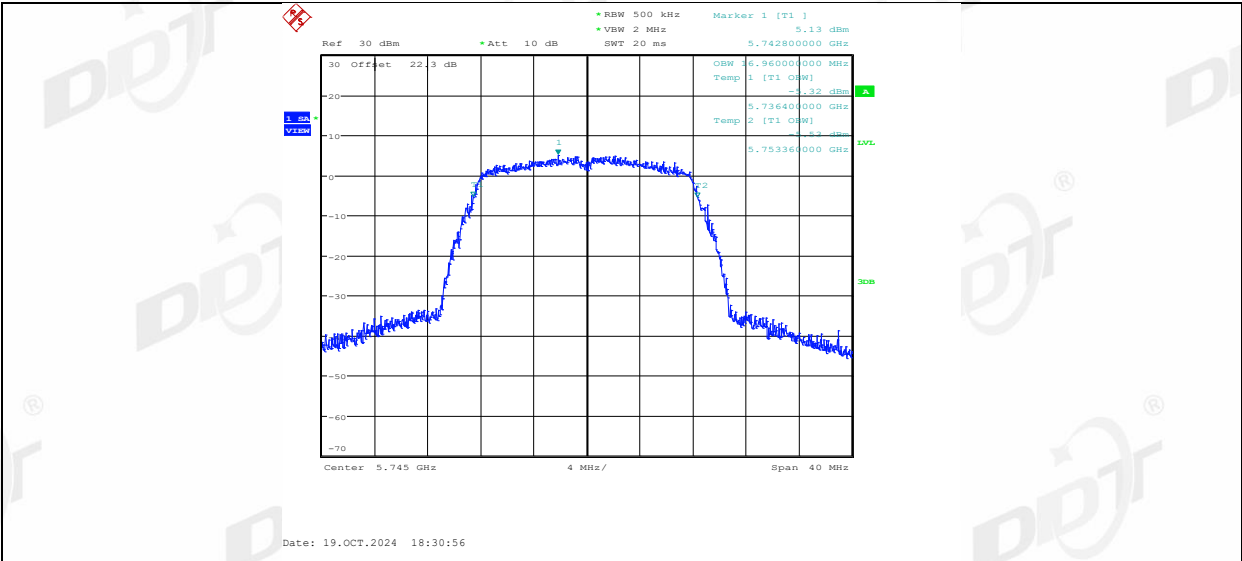


11A\_Ant2\_5700

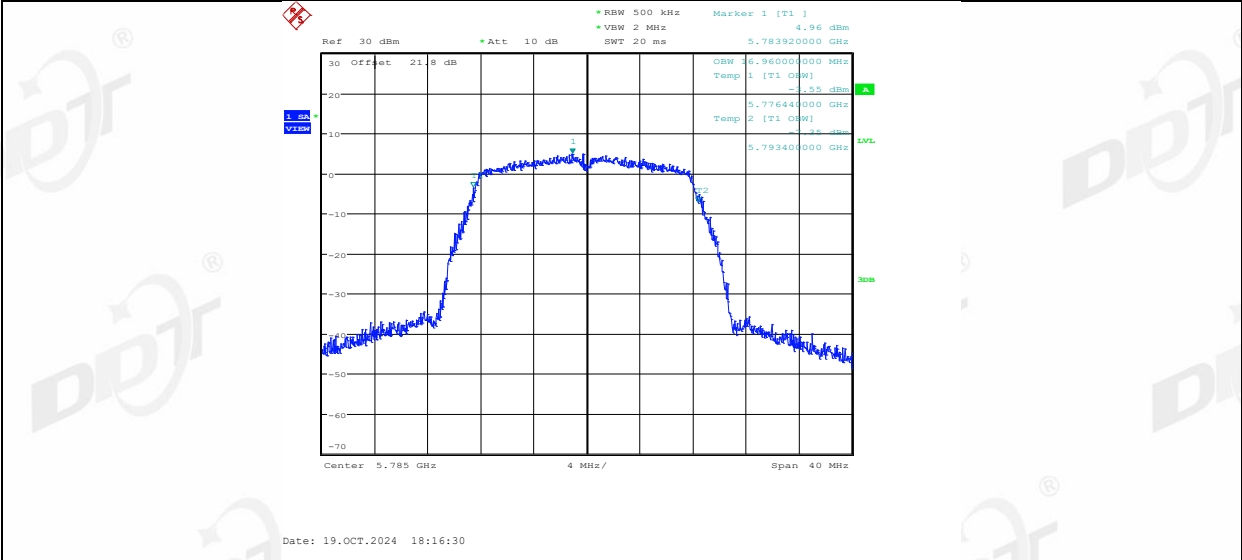


11A\_Ant1\_5720

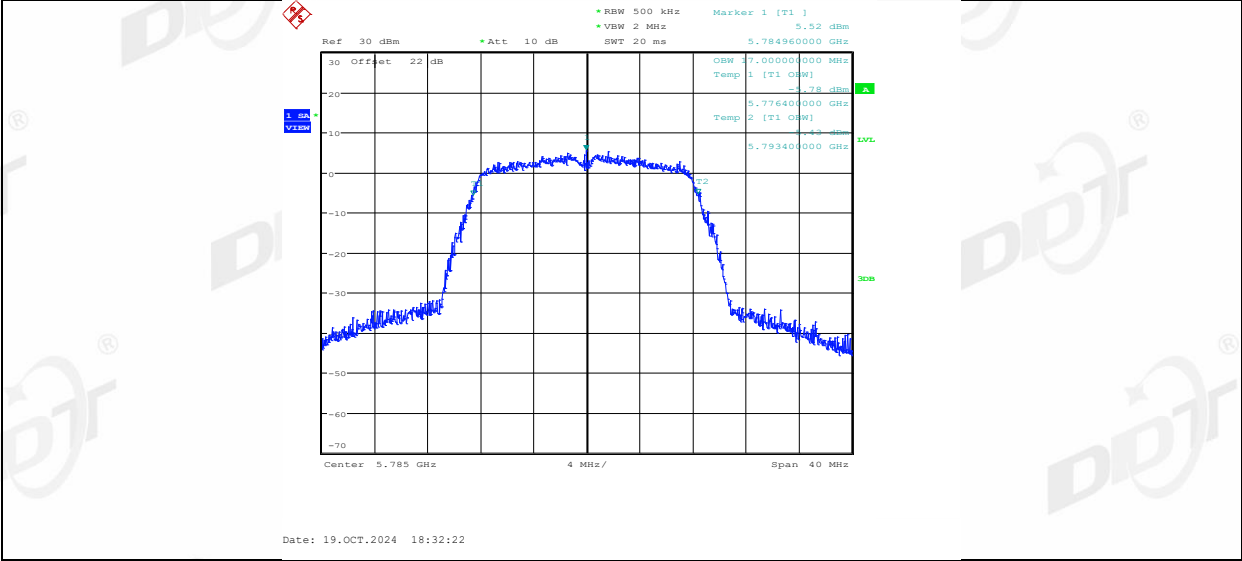




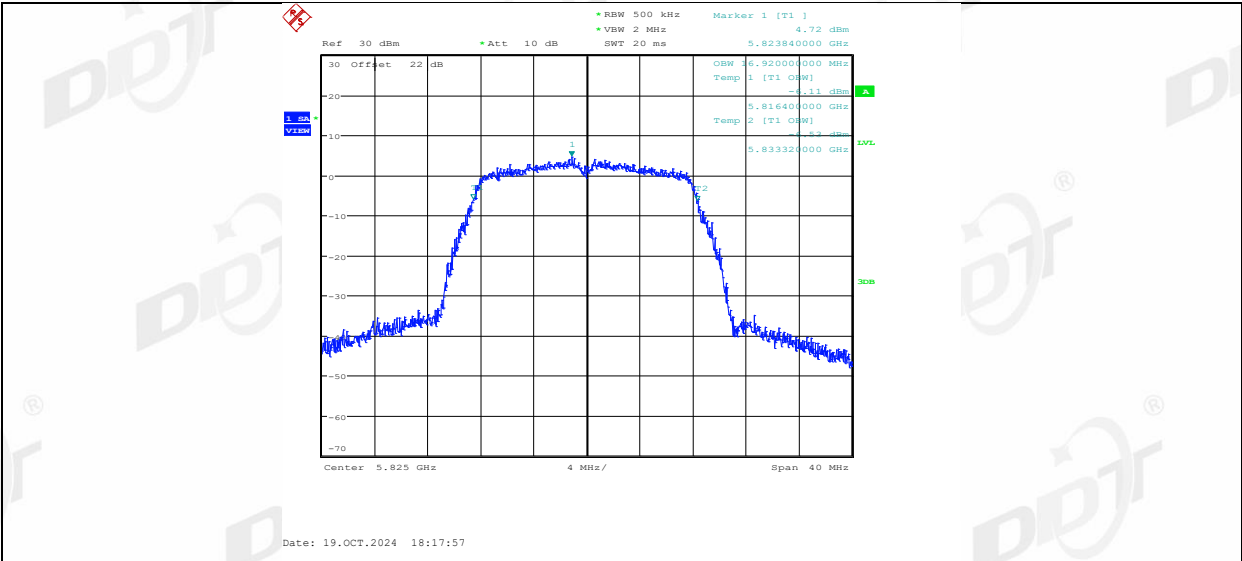
11A\_Ant1\_5785



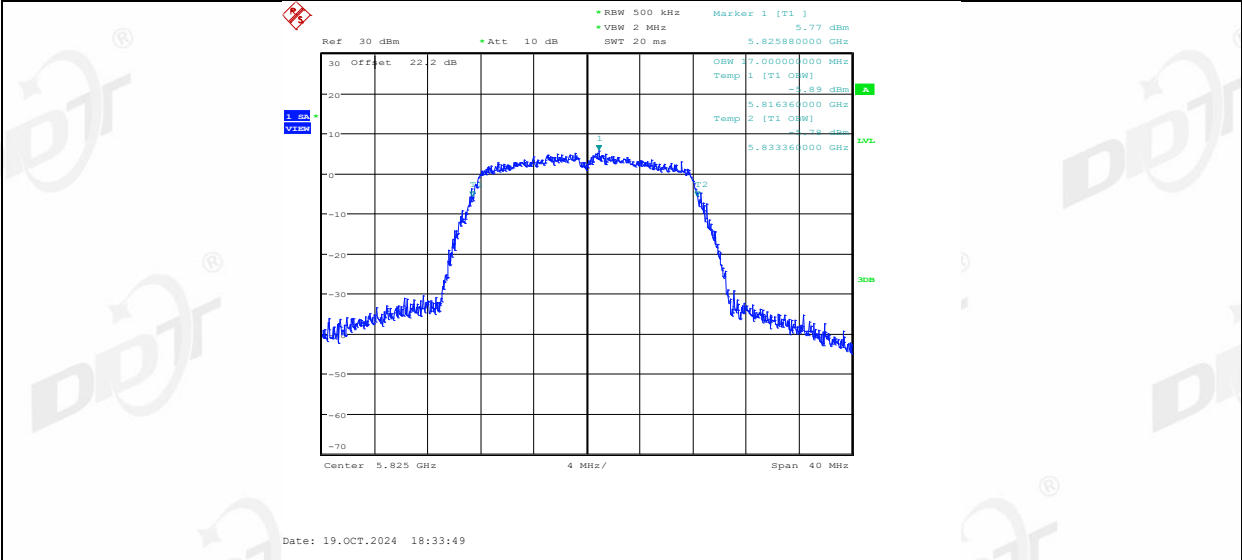
11A\_Ant2\_5785



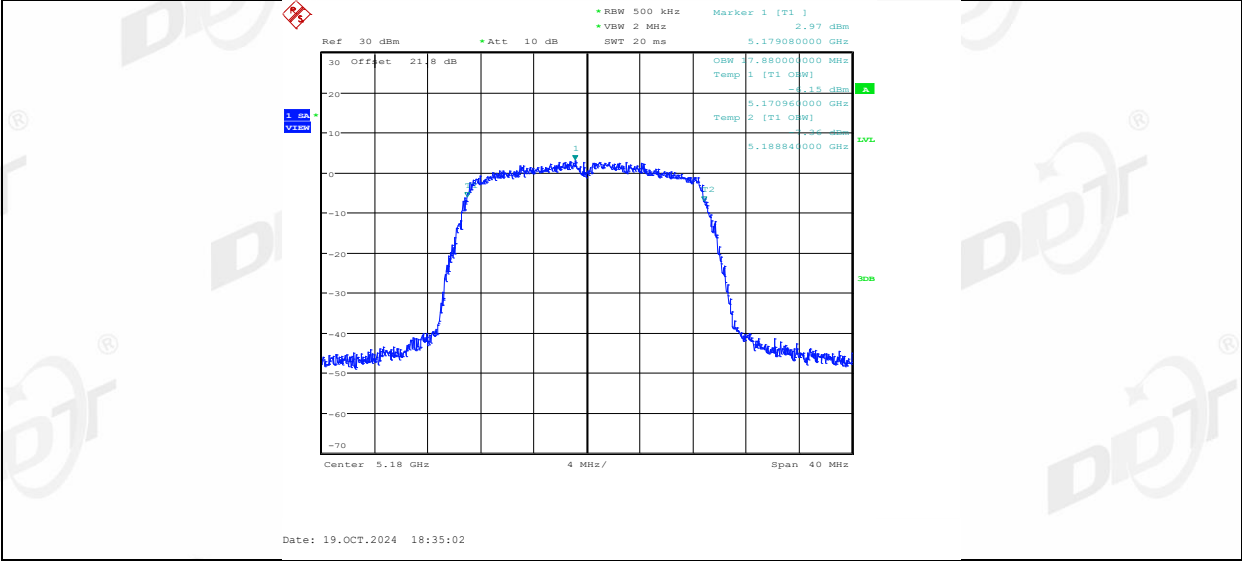
11A\_Ant1\_5825



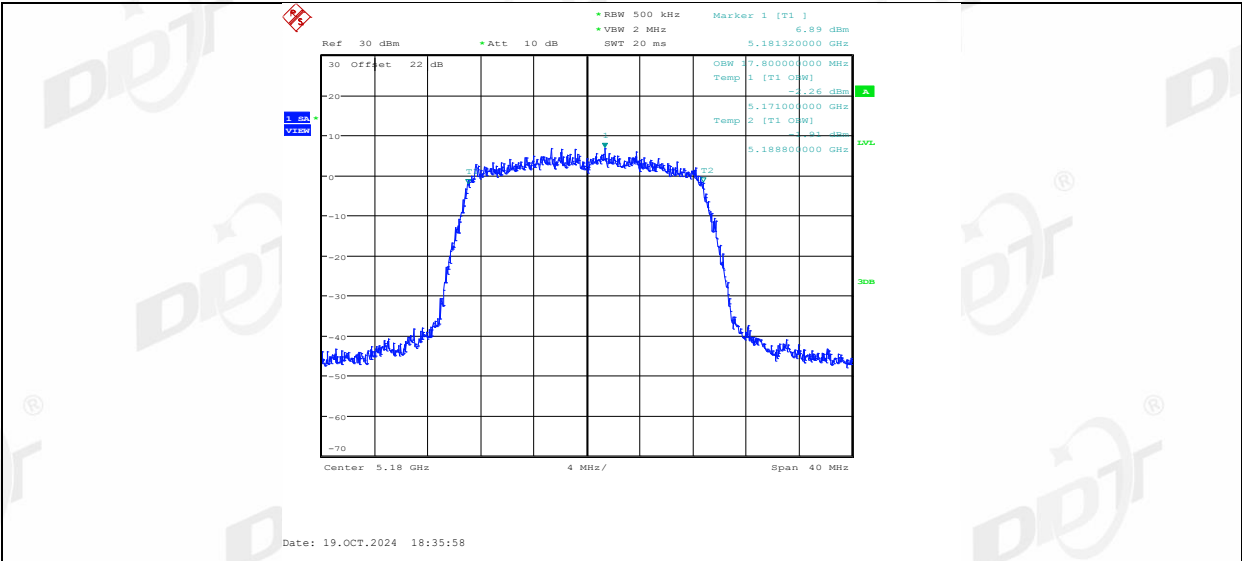
11A\_Ant2\_5825



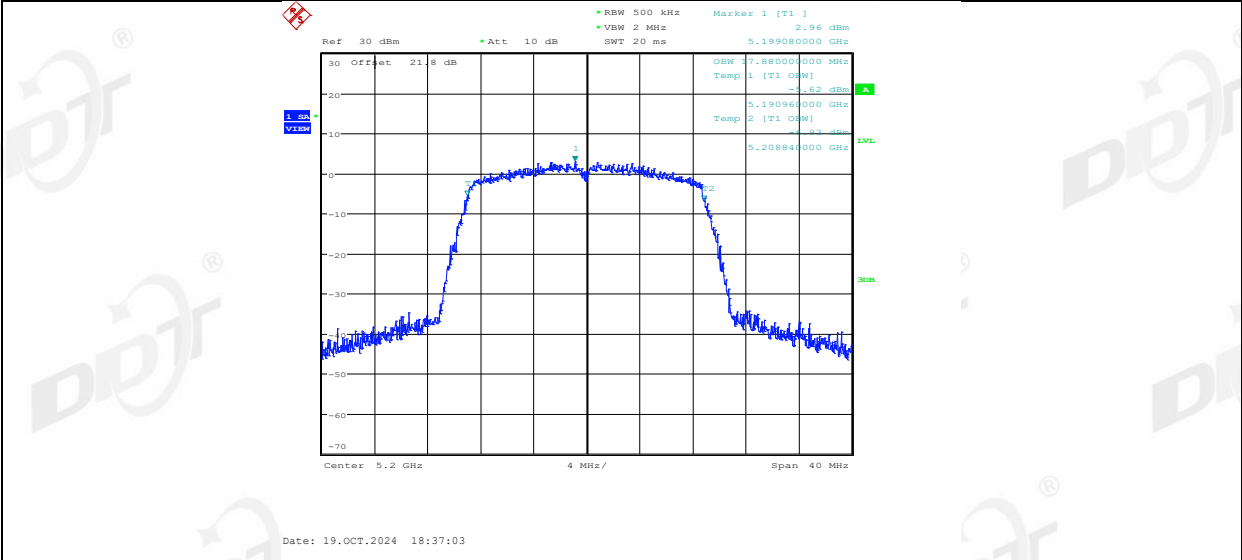
11N20MIMO\_Ant1\_5180



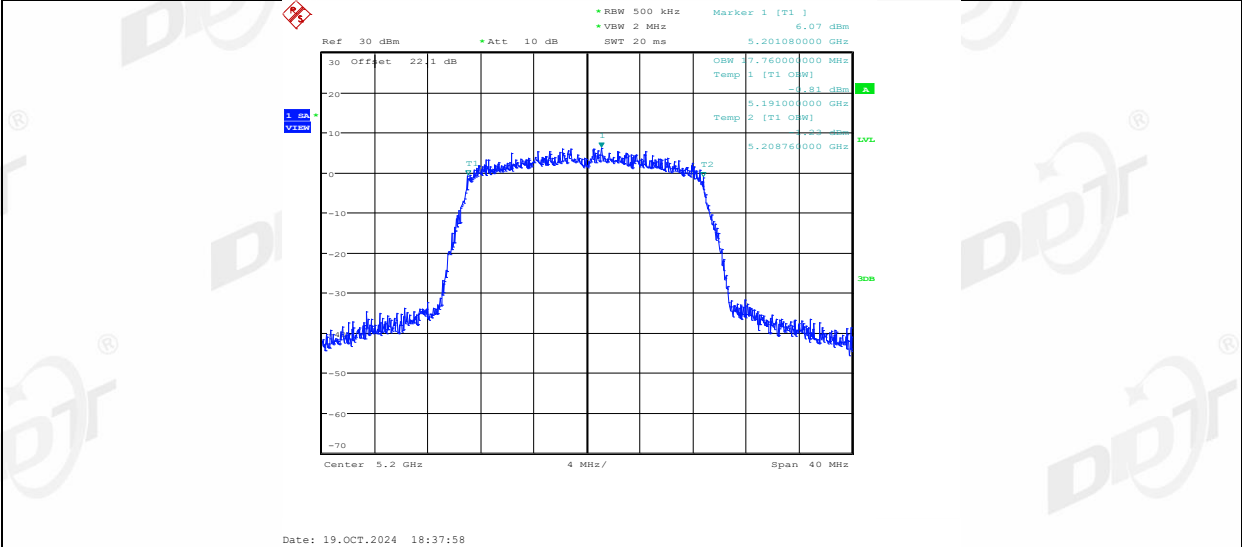
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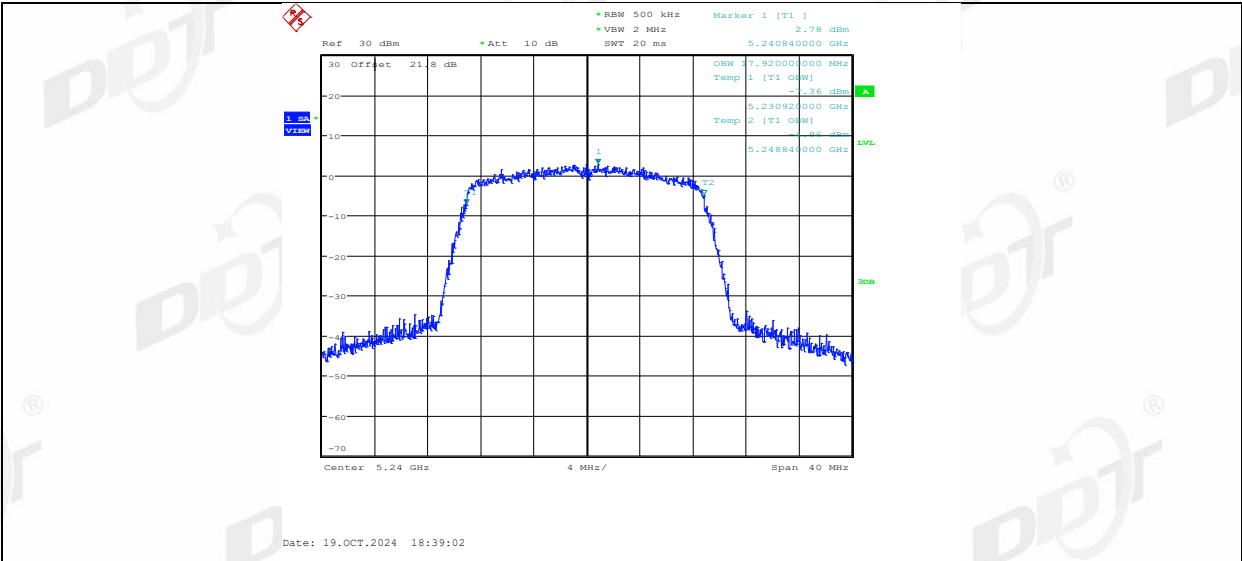
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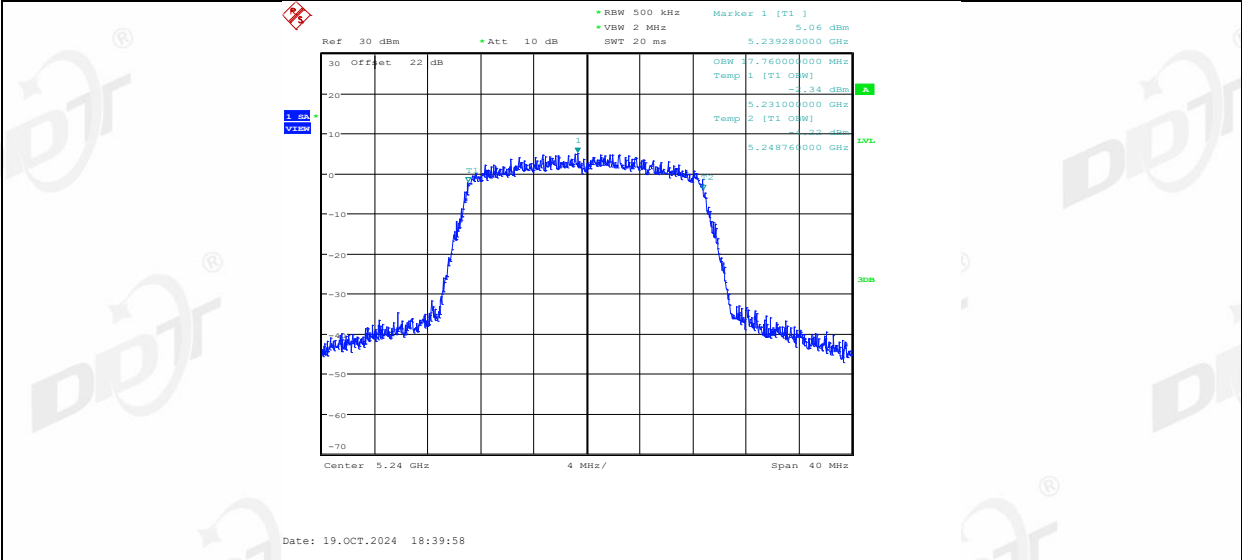
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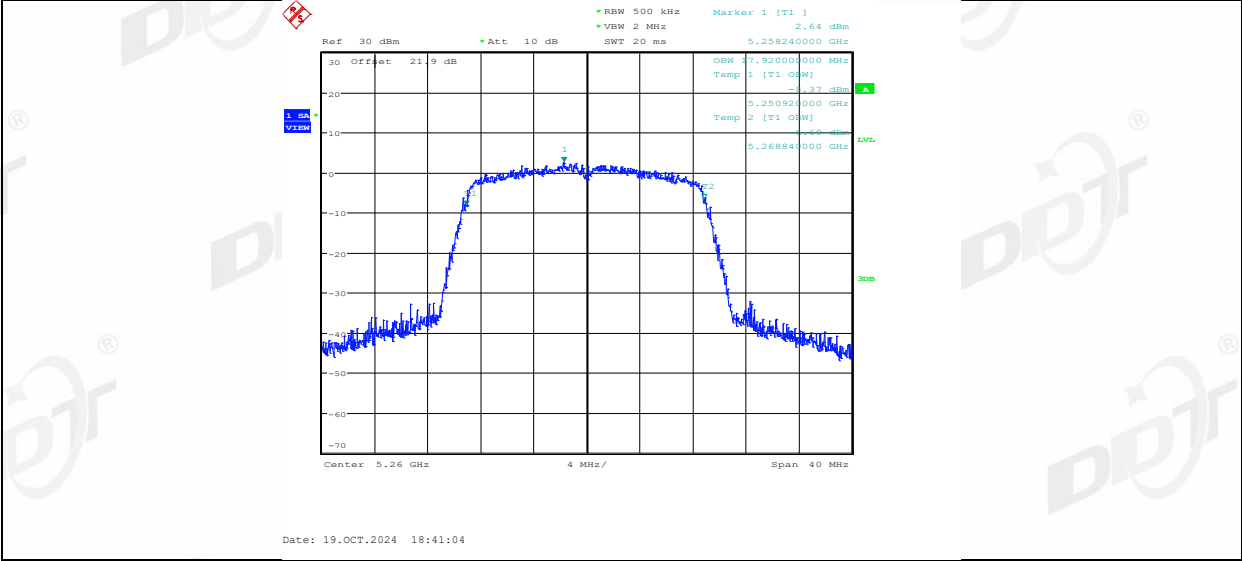
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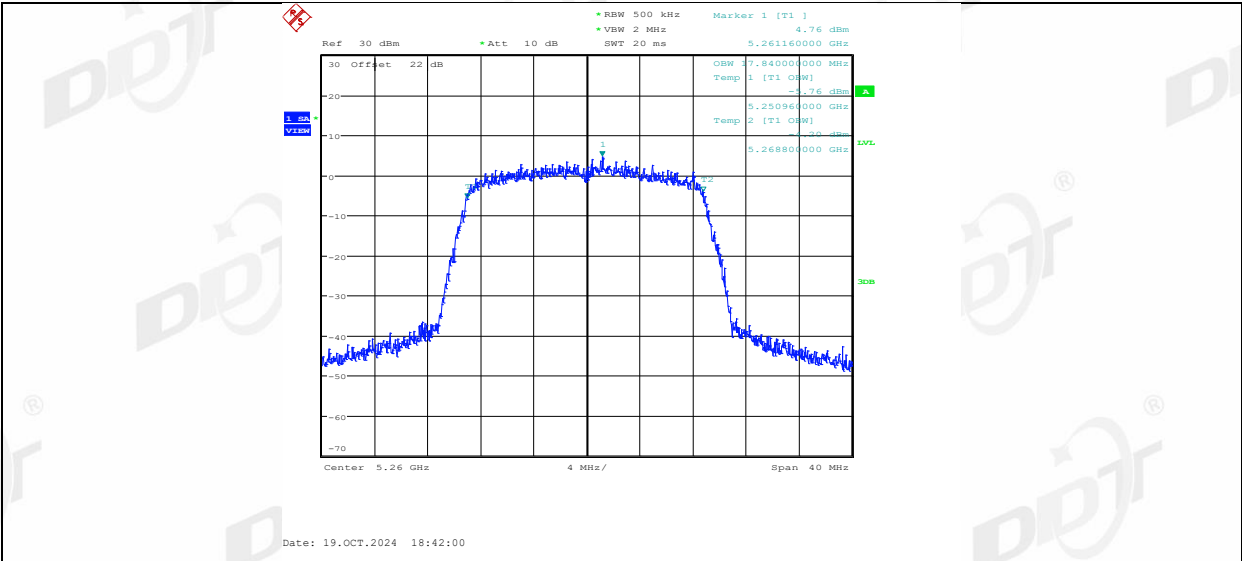
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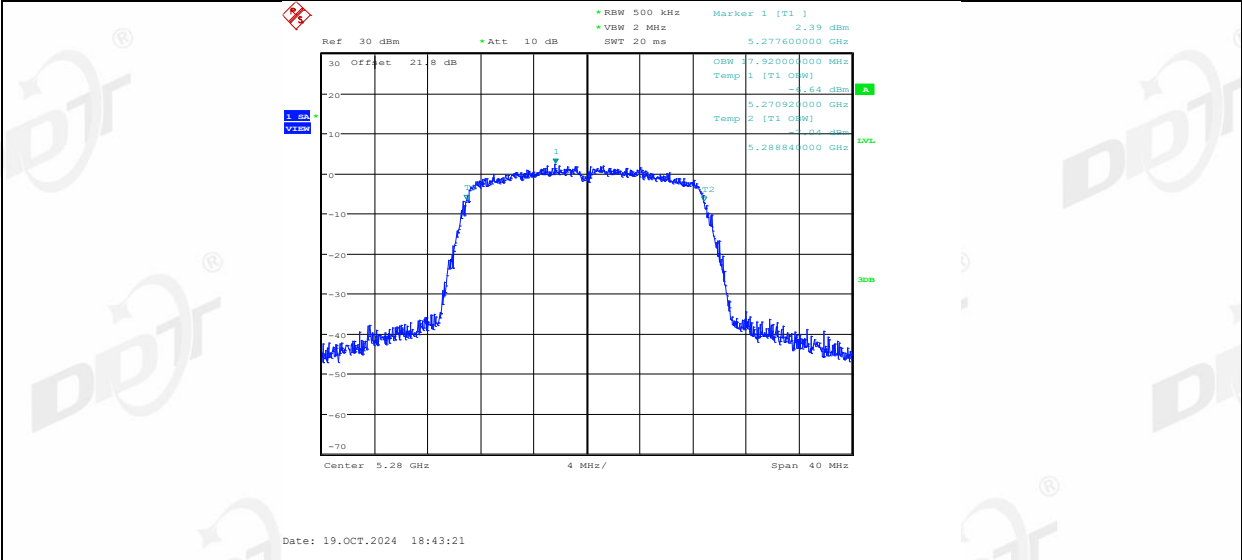
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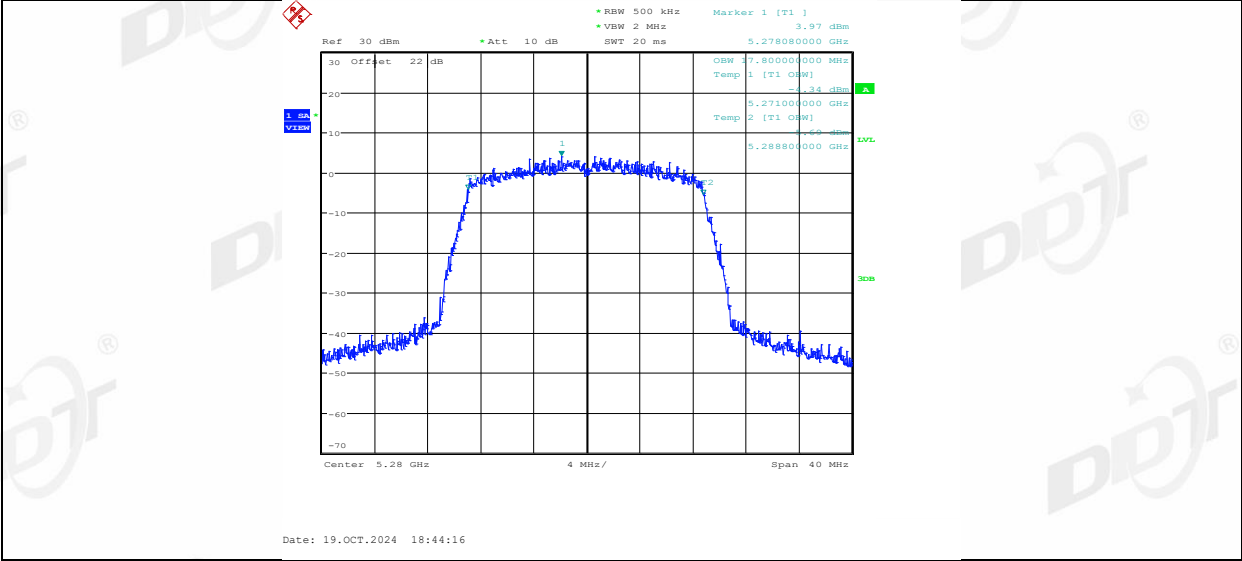
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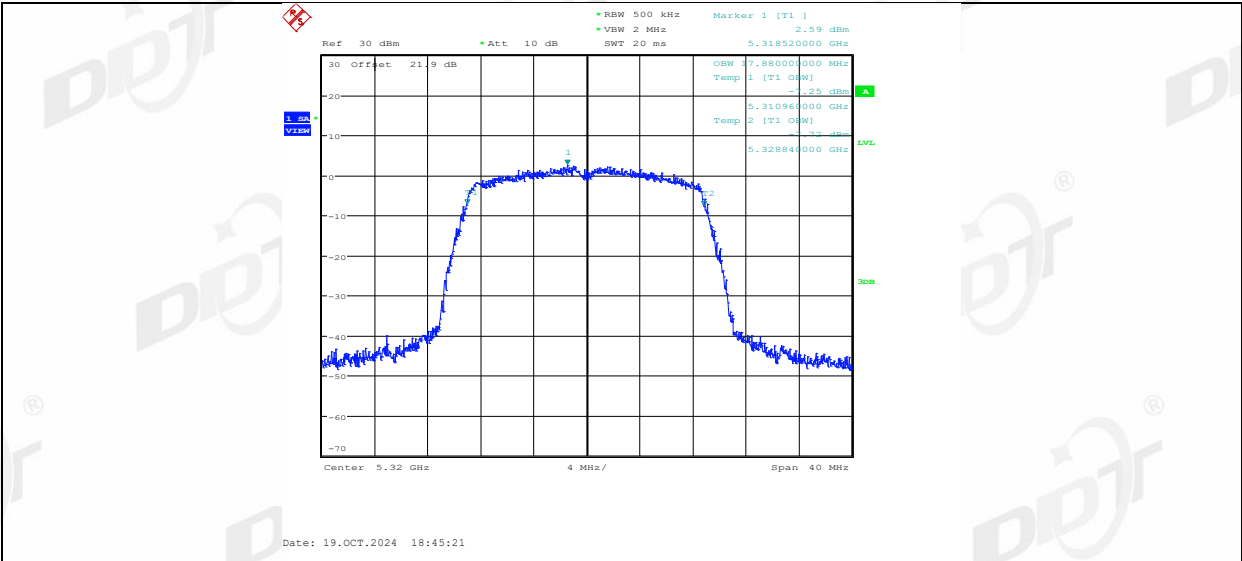
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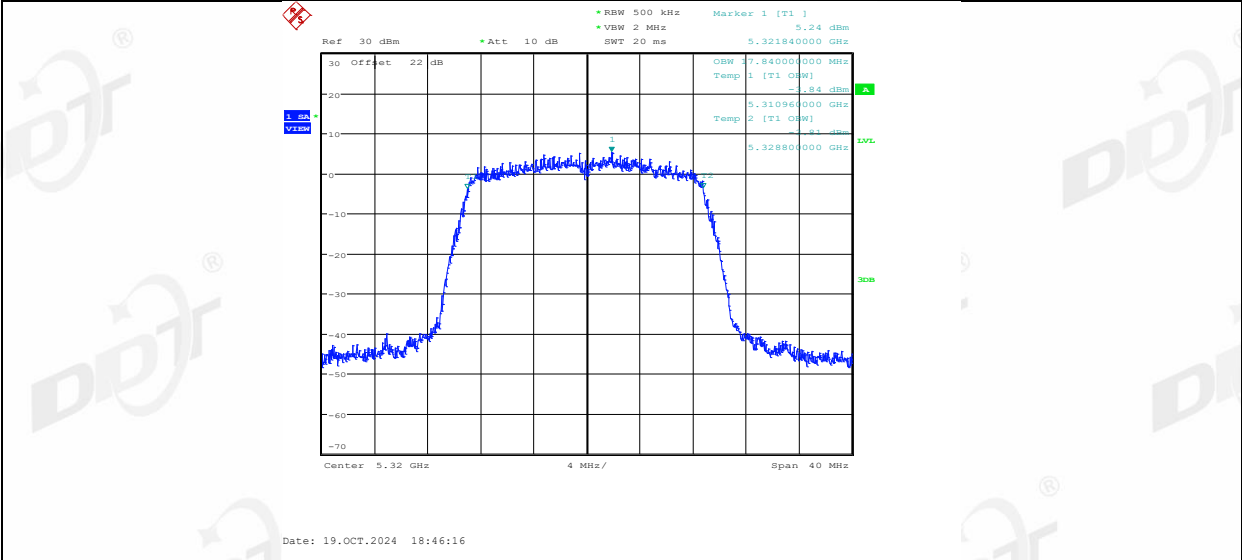
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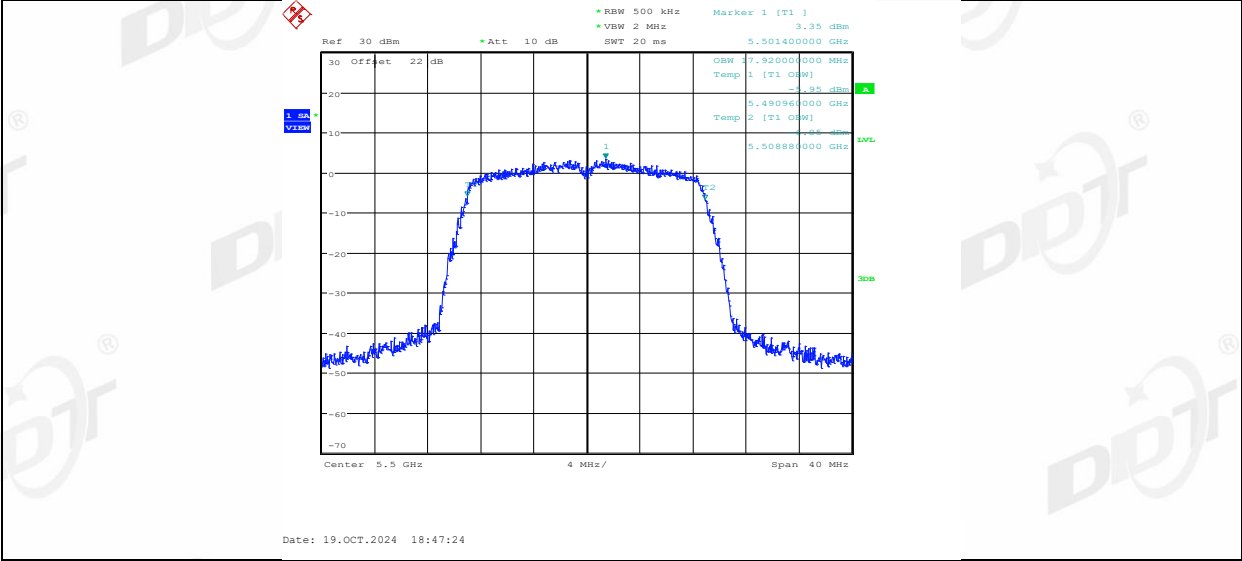
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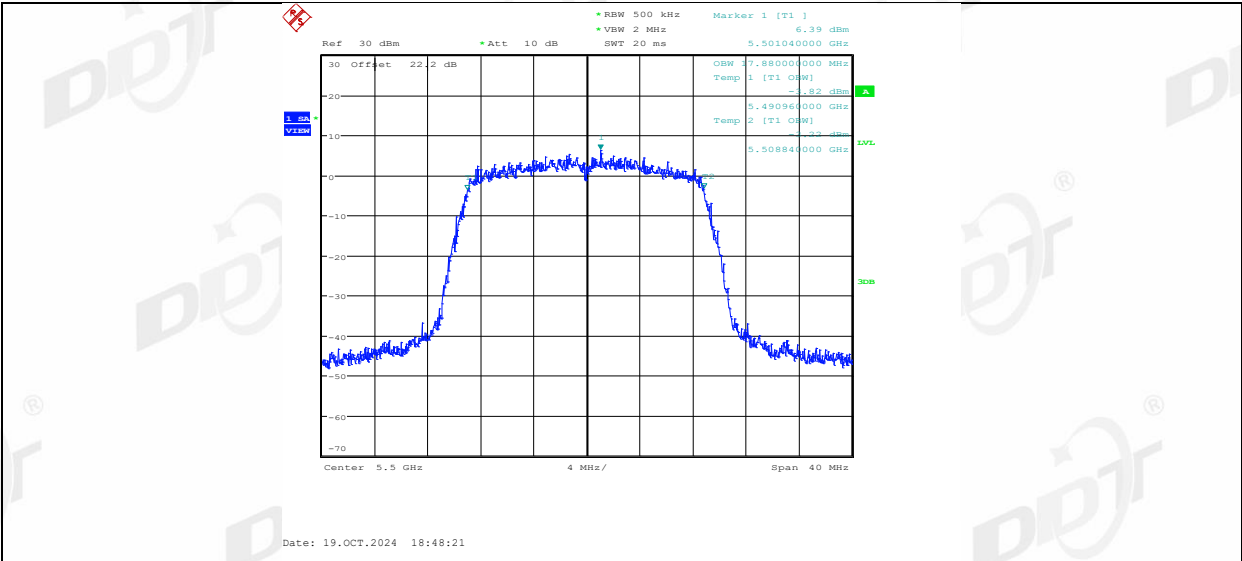
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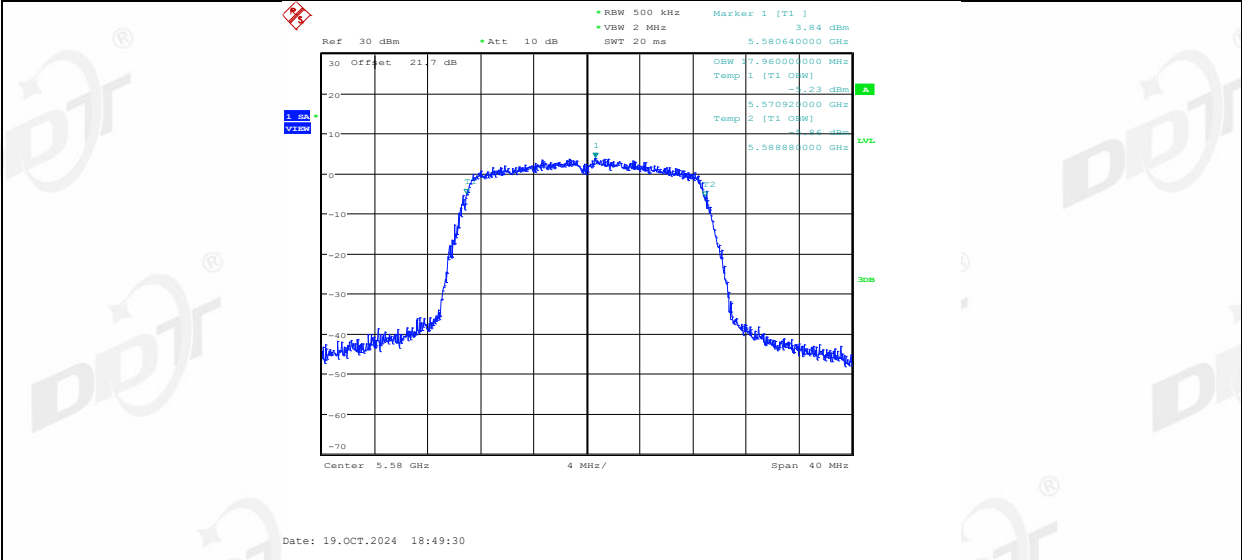
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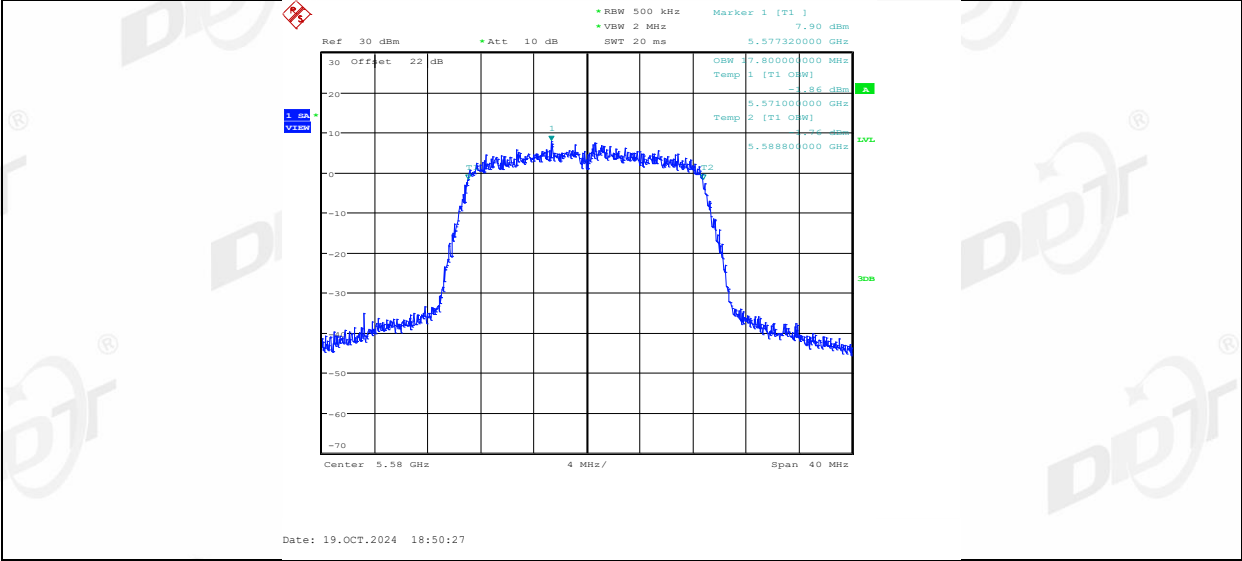
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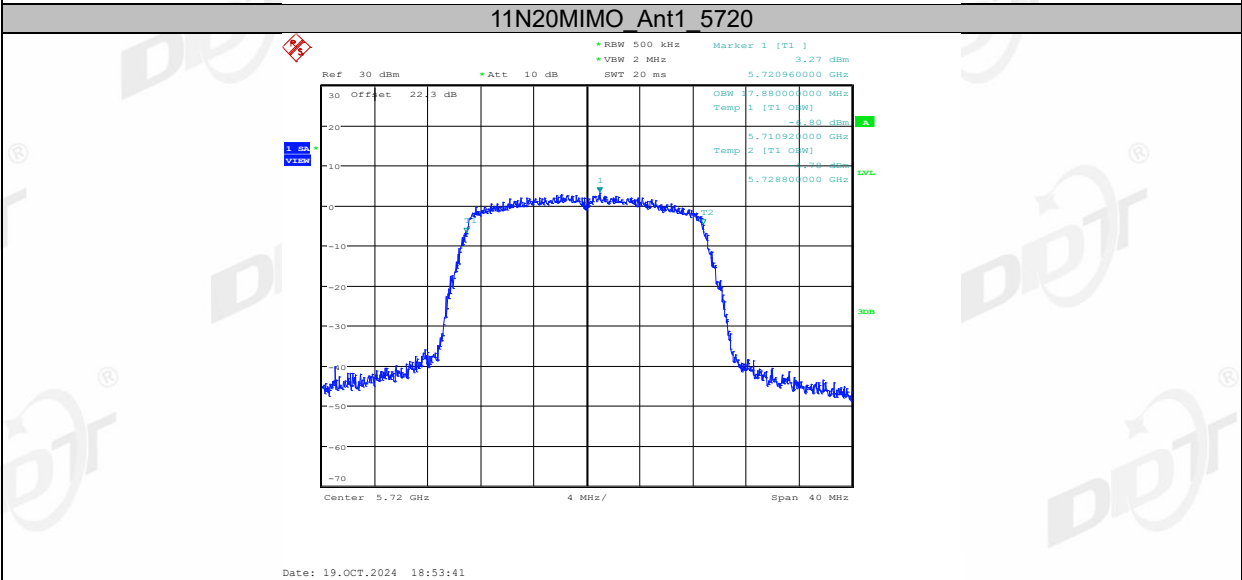
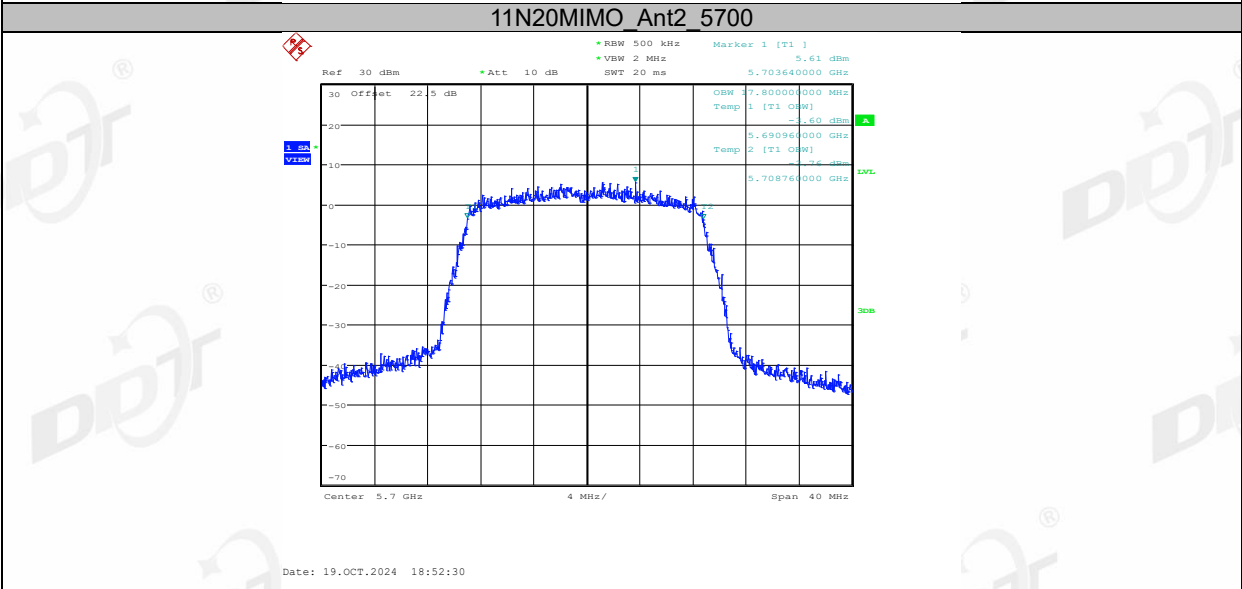
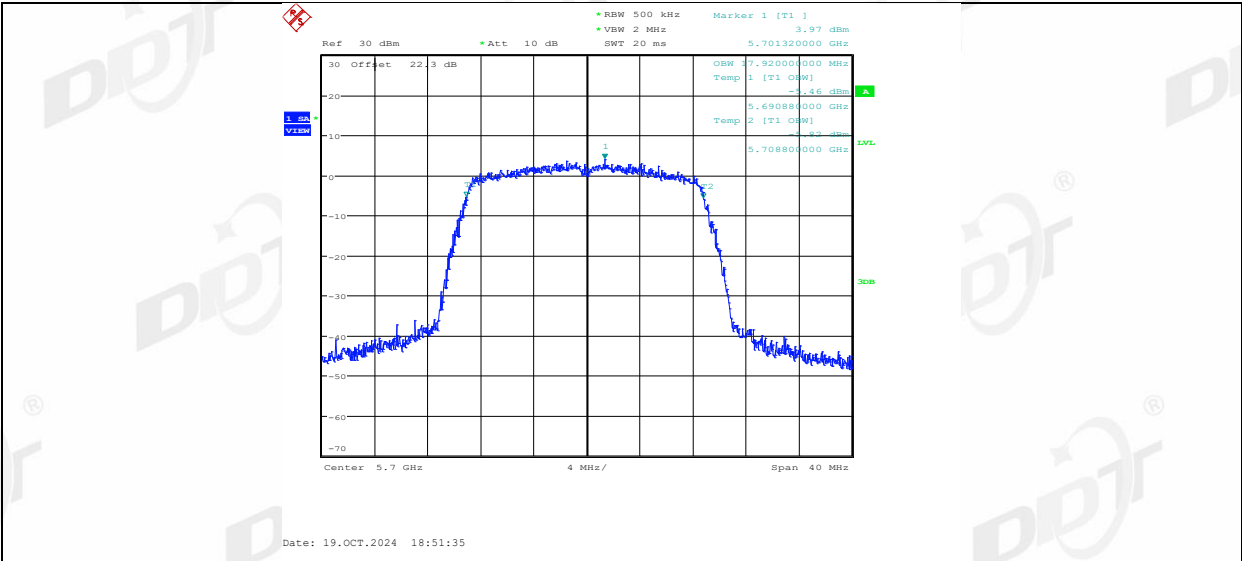
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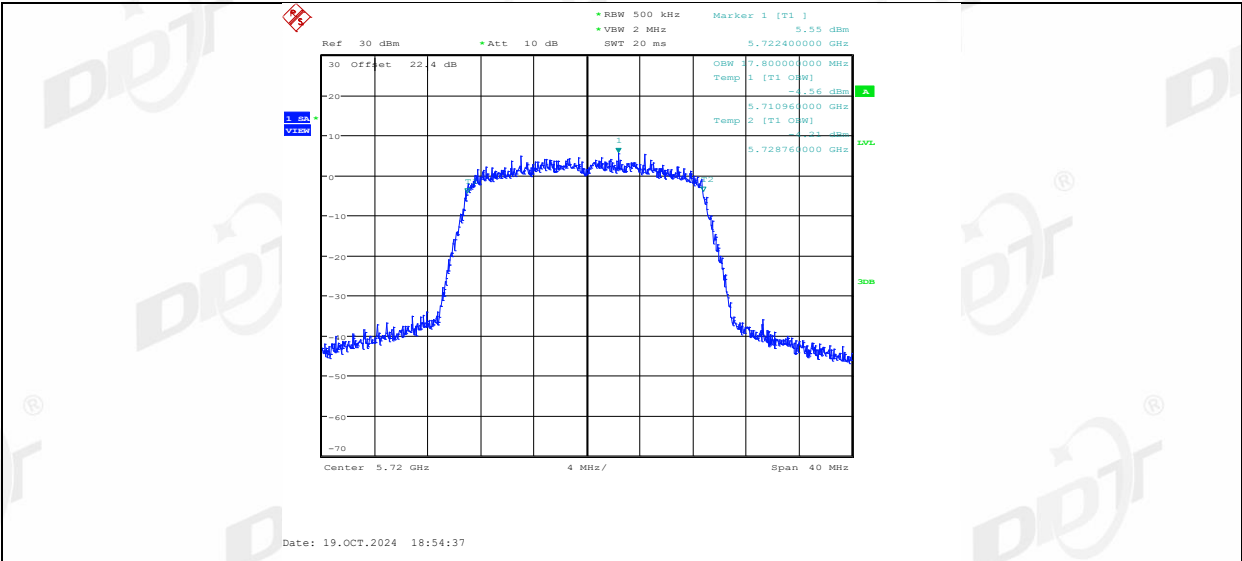
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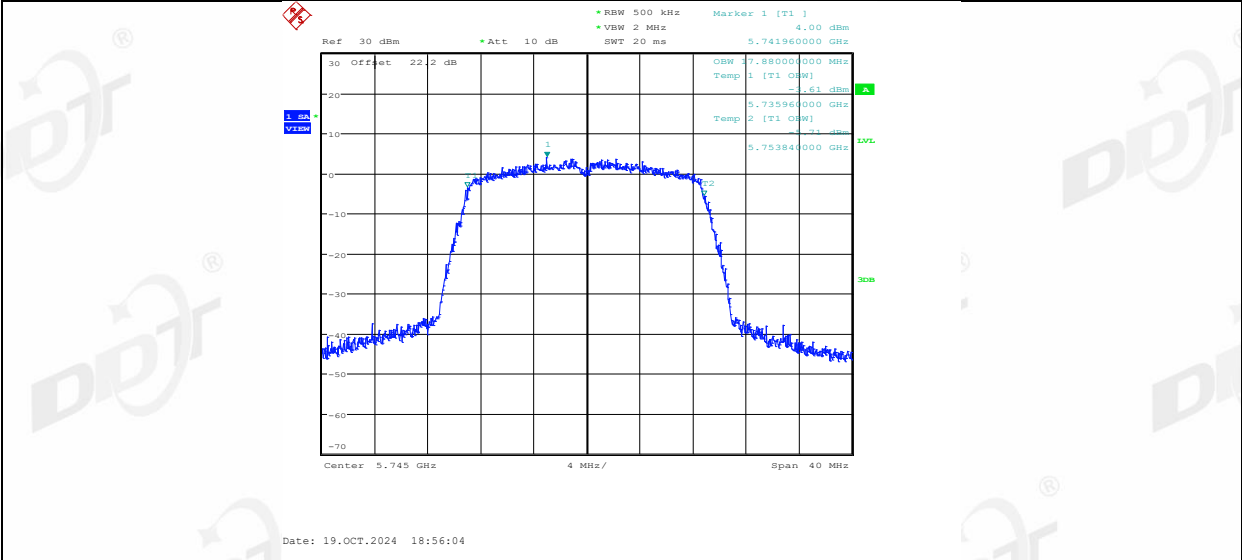
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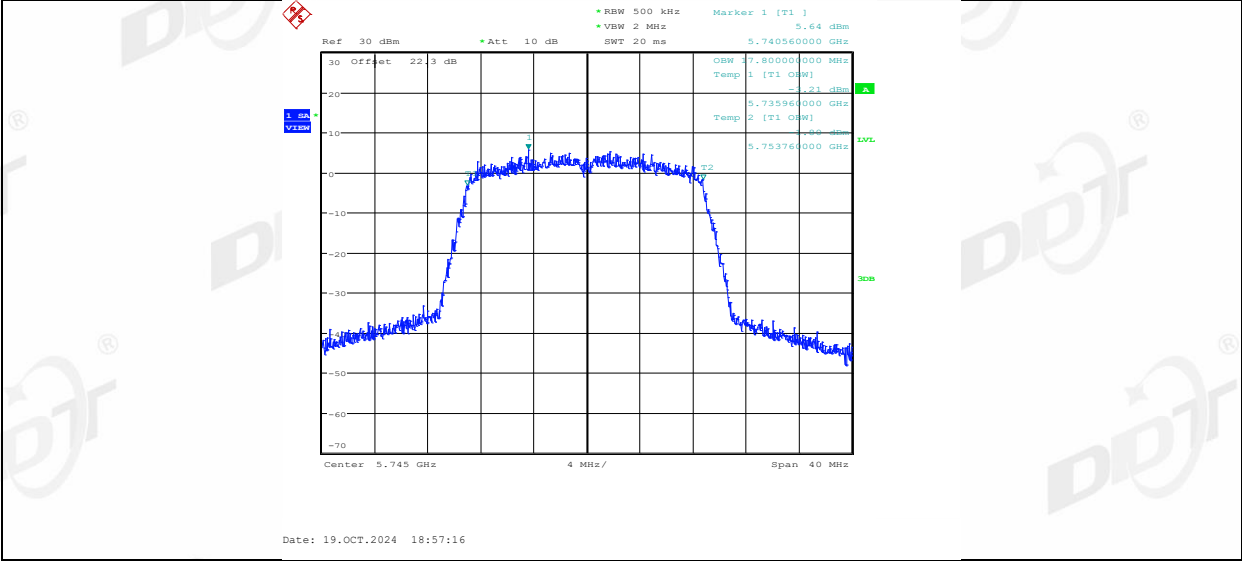
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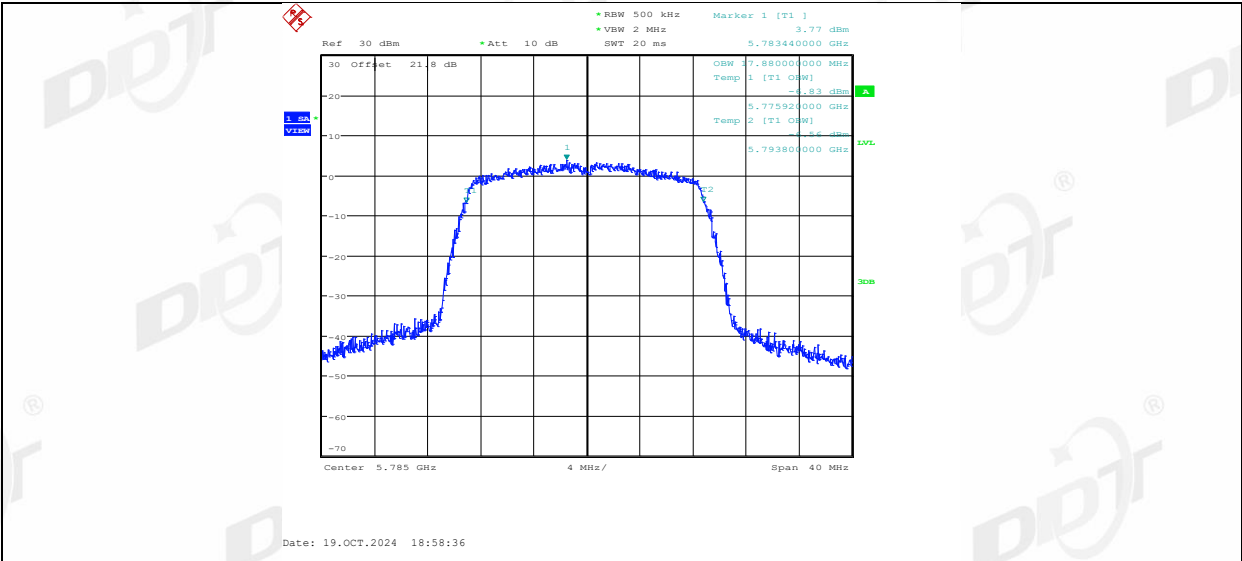
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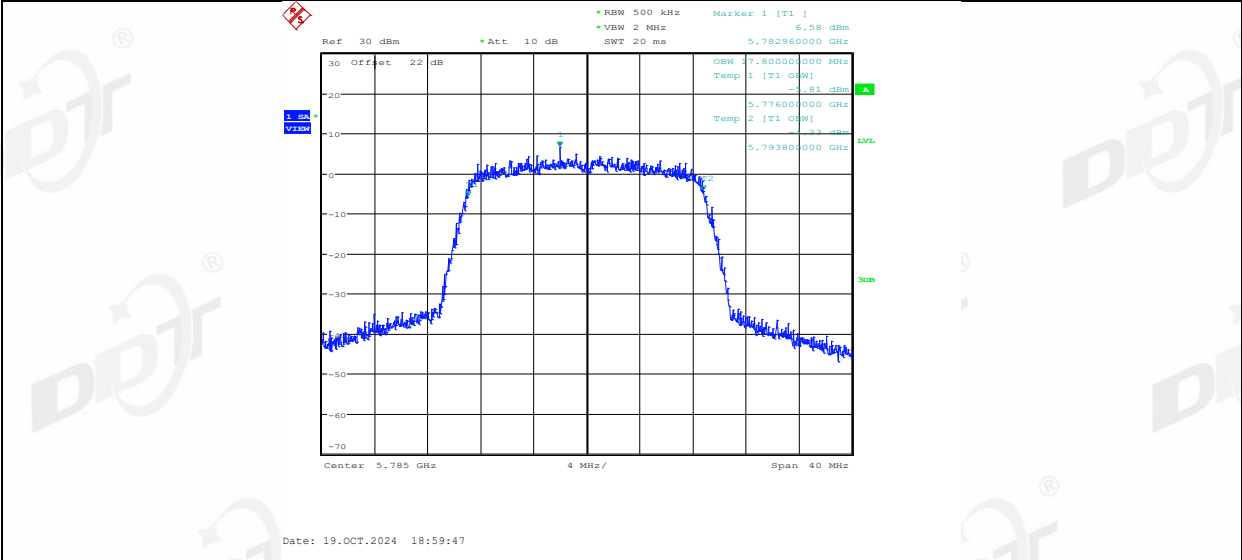
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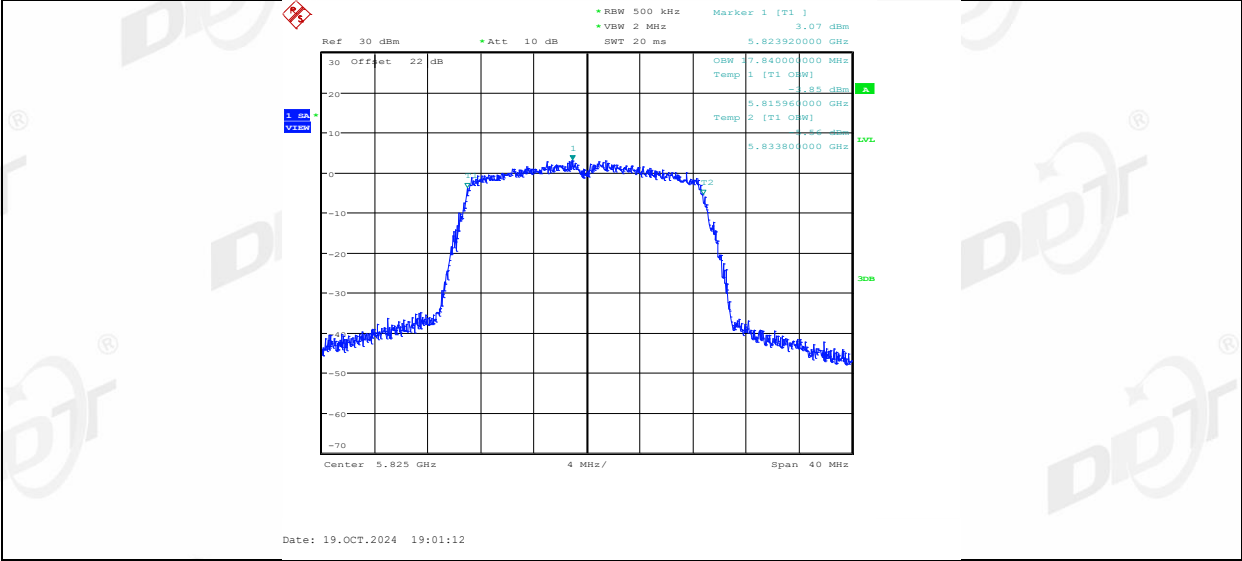
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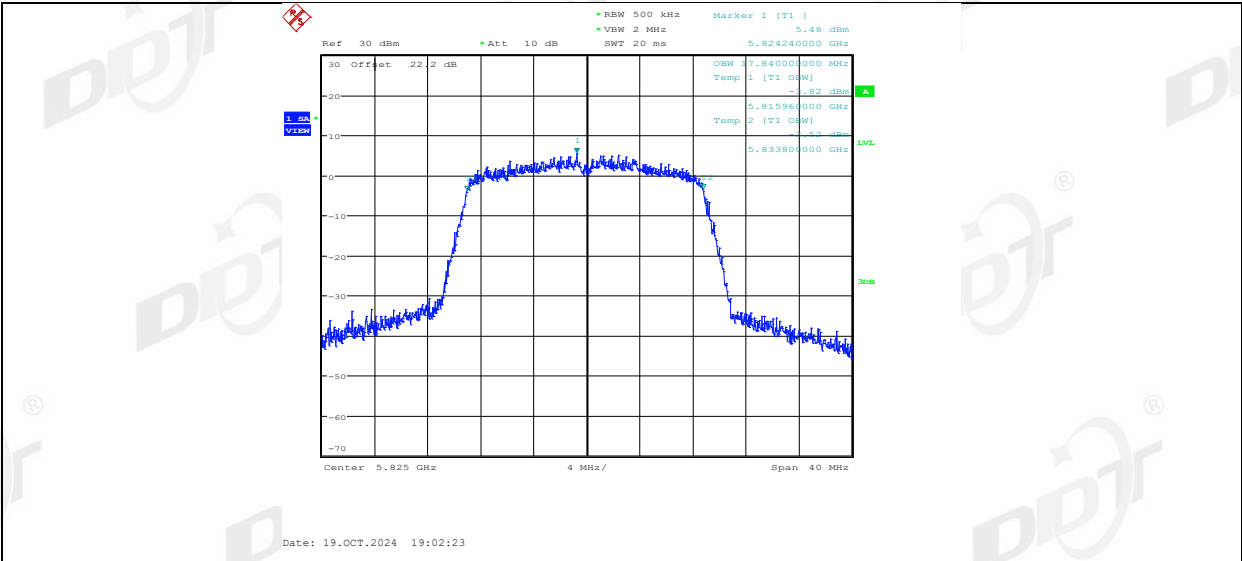
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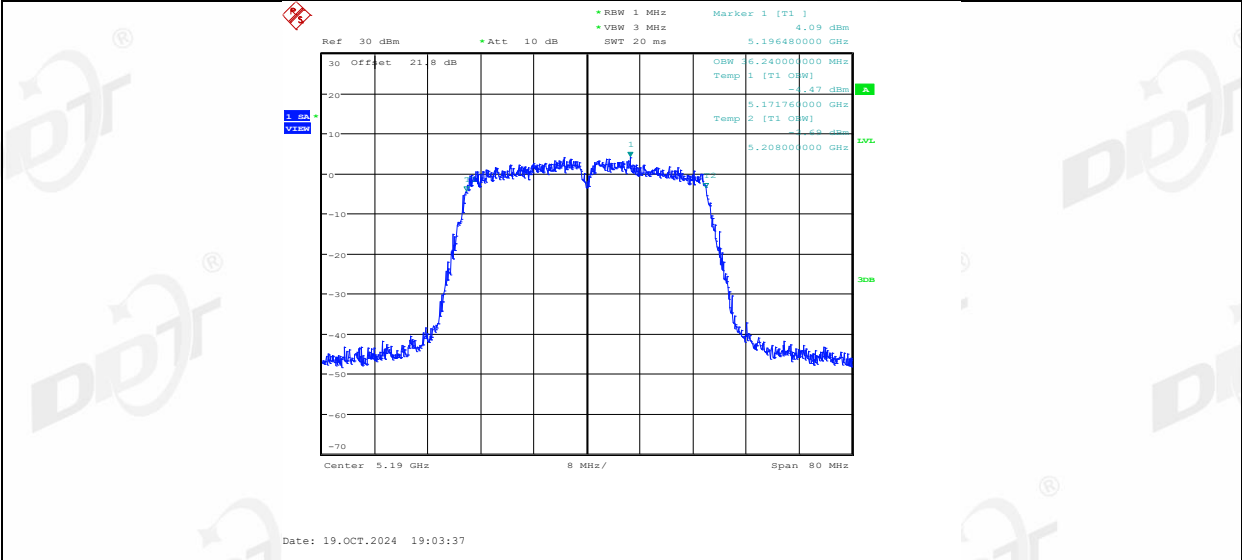
11N20MIMO\_Ant1\_5825



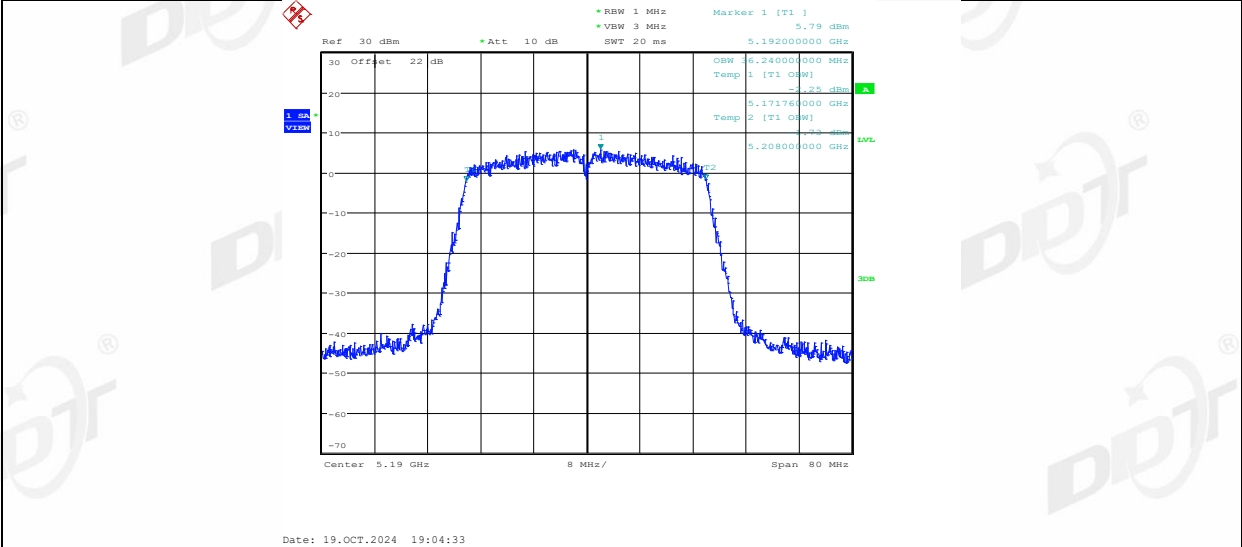
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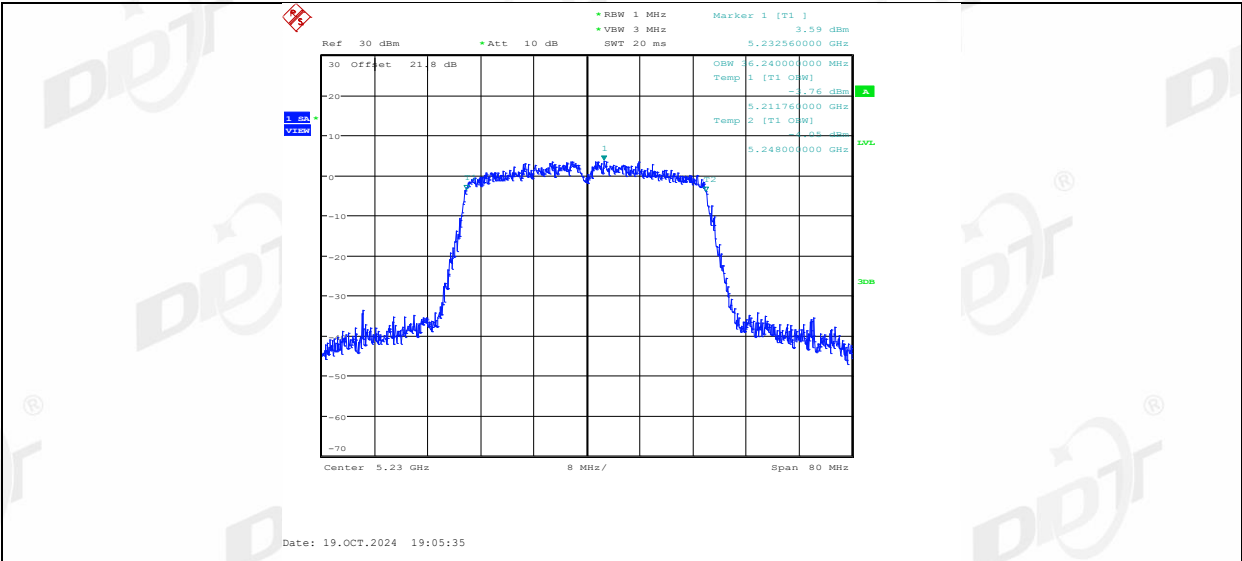
11N40MIMO\_Ant1\_5190



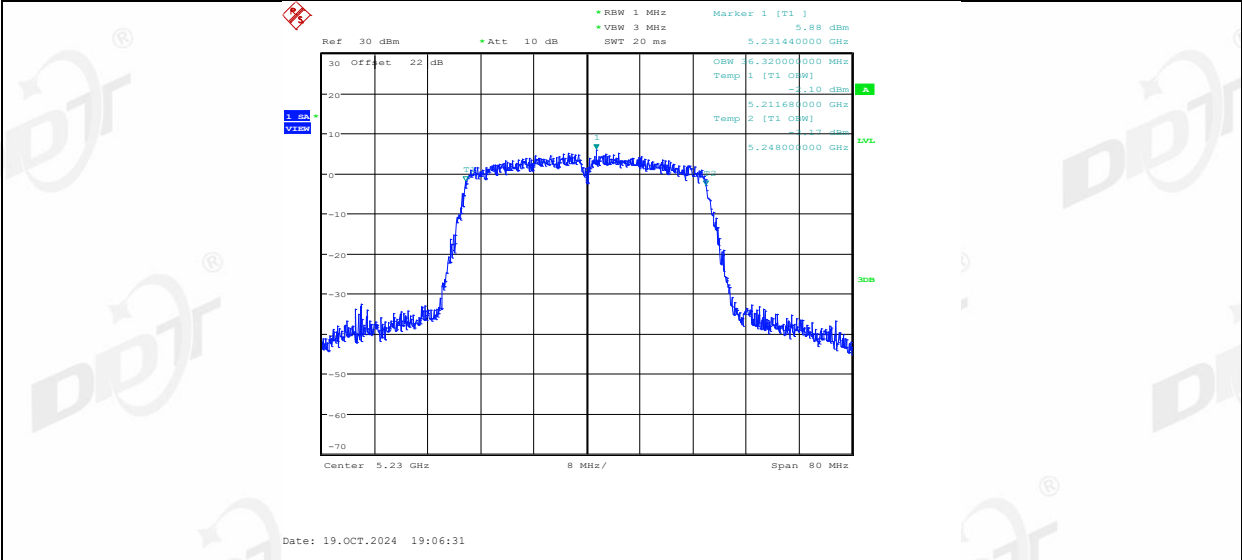
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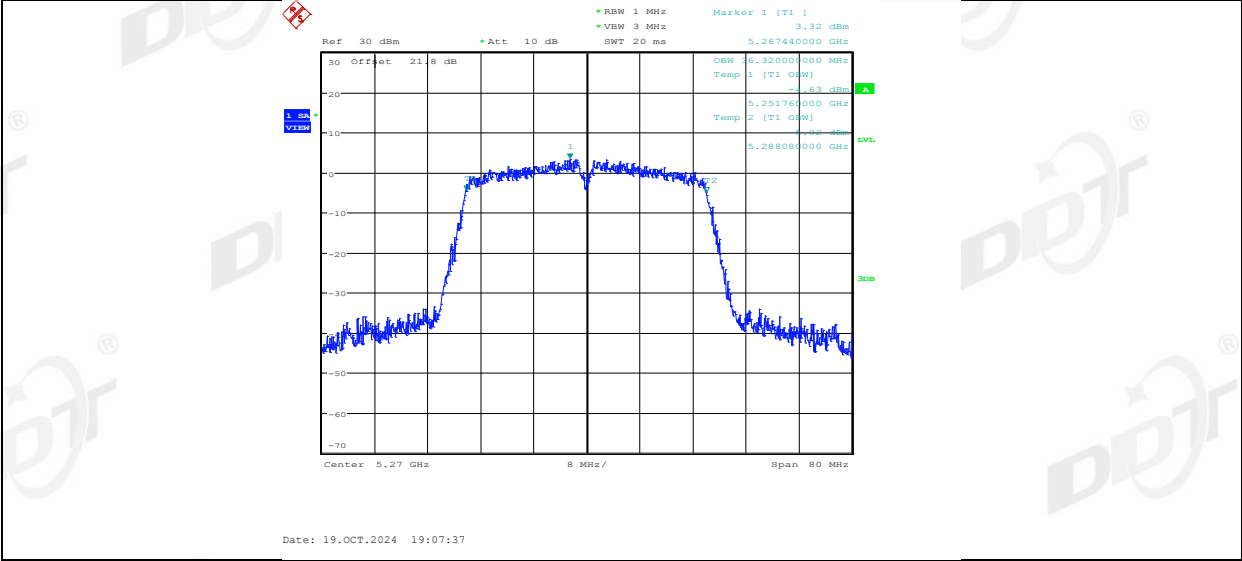
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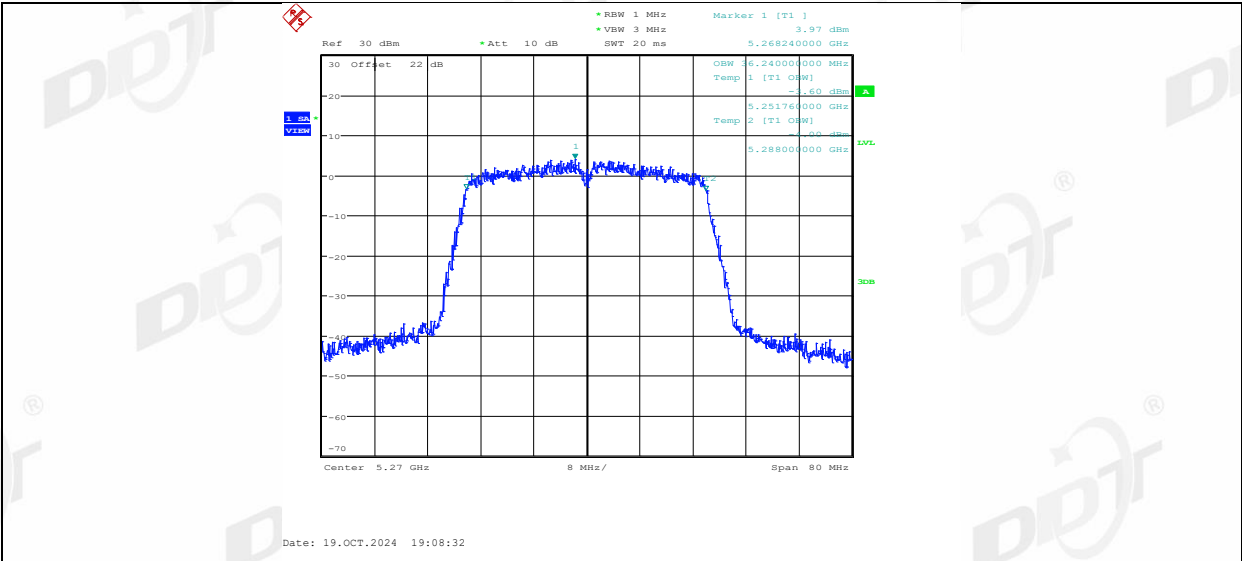
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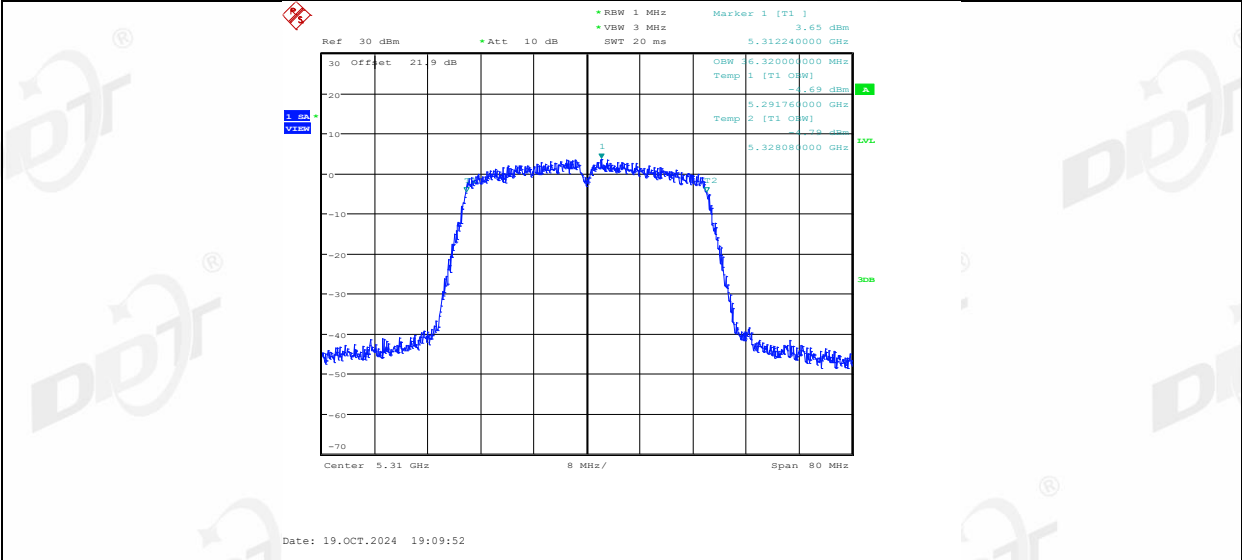
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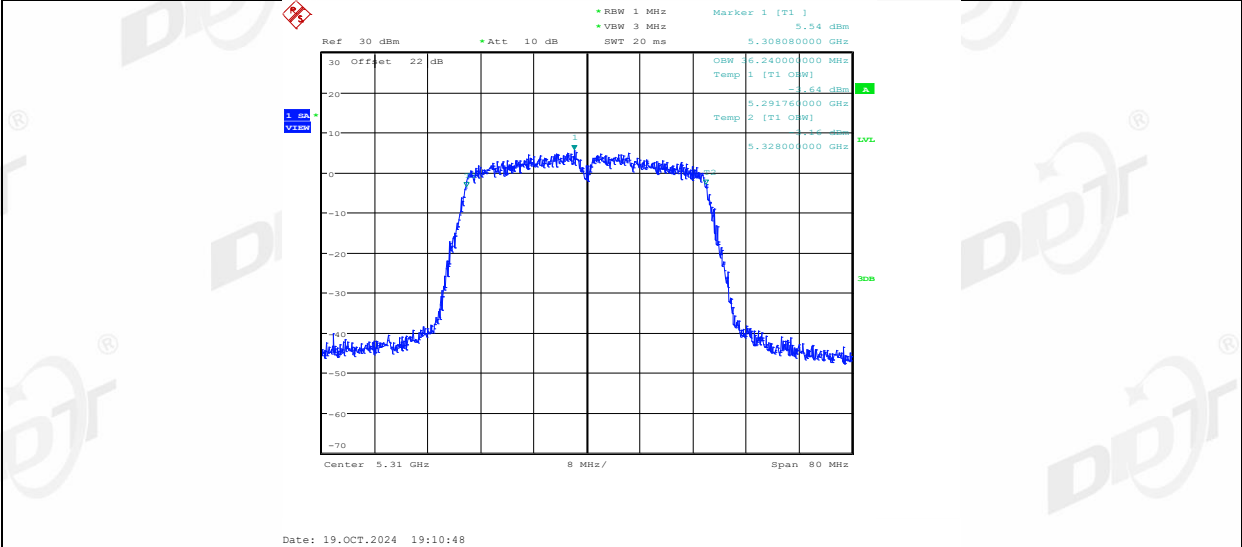
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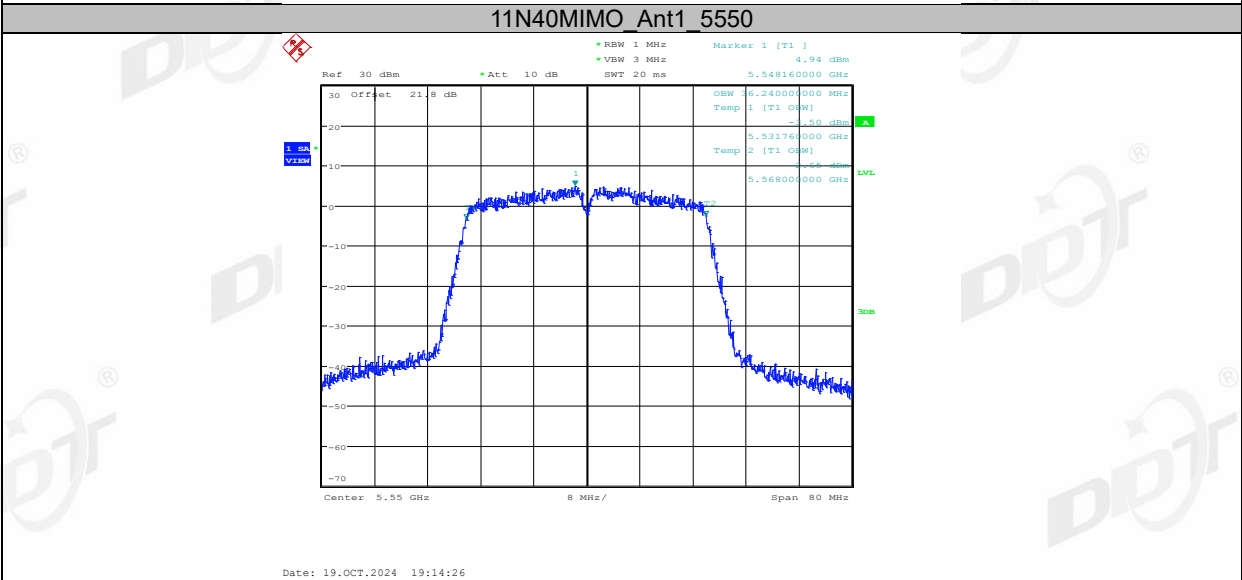
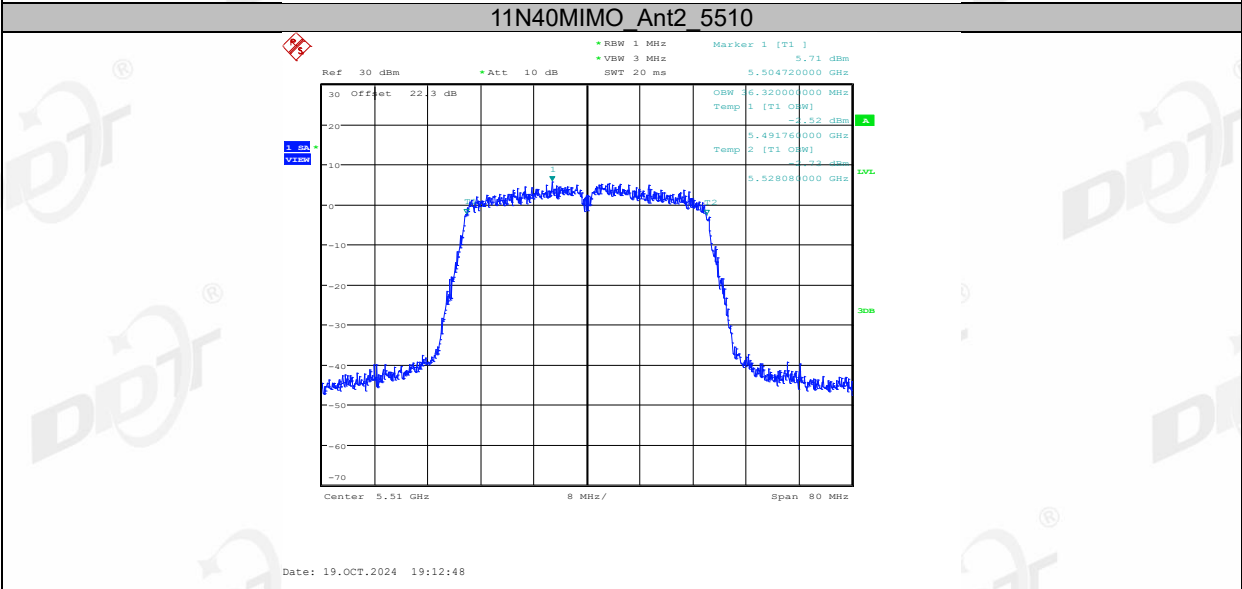
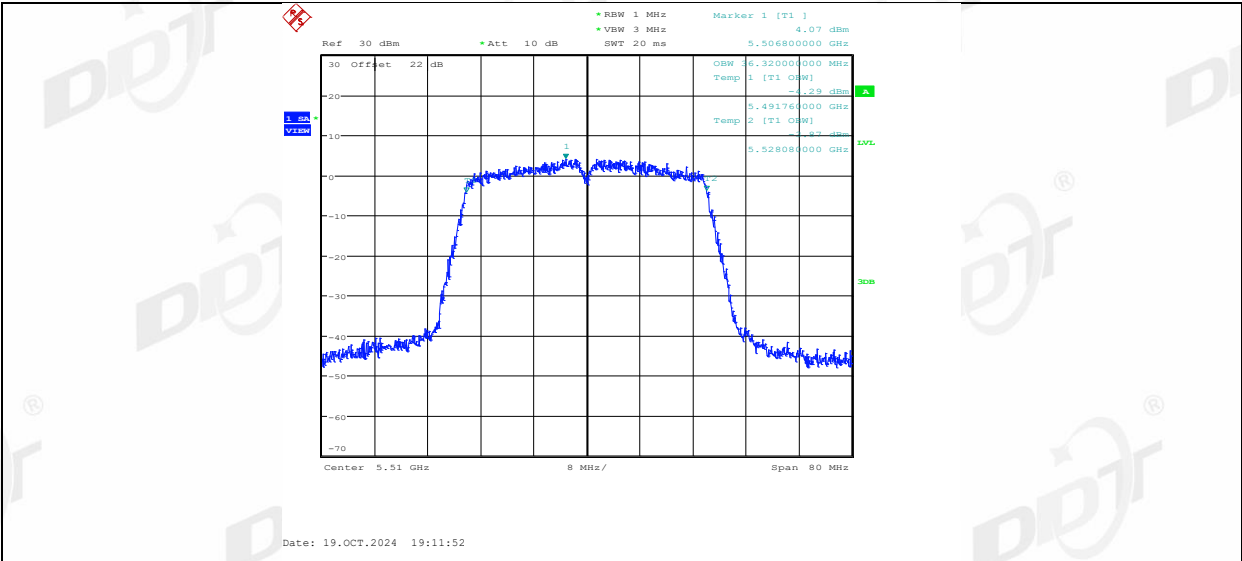
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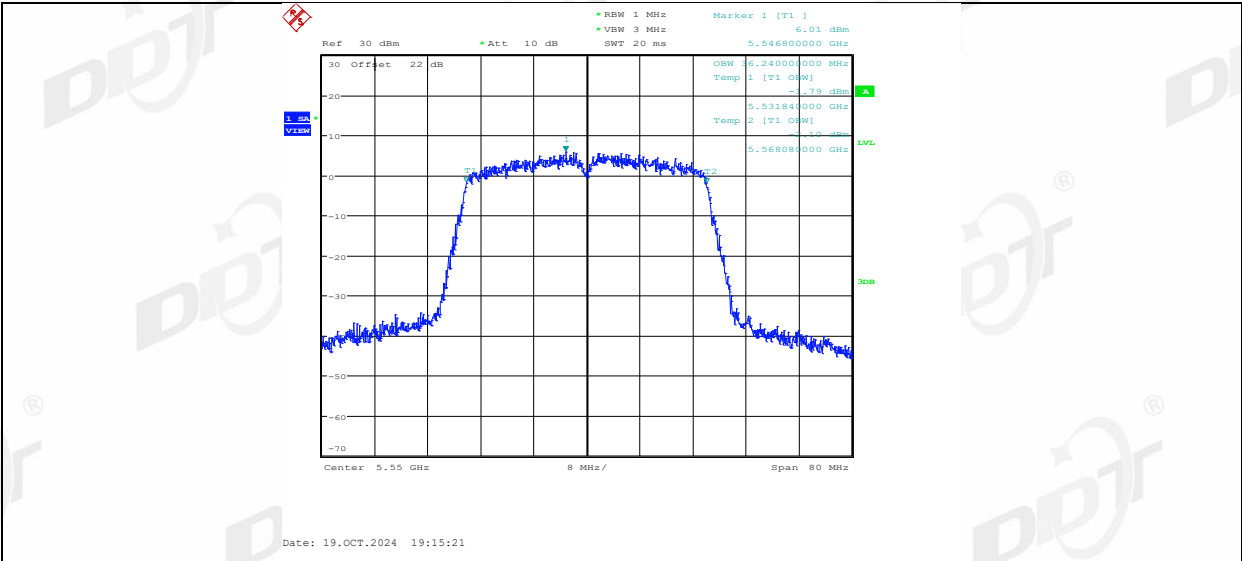


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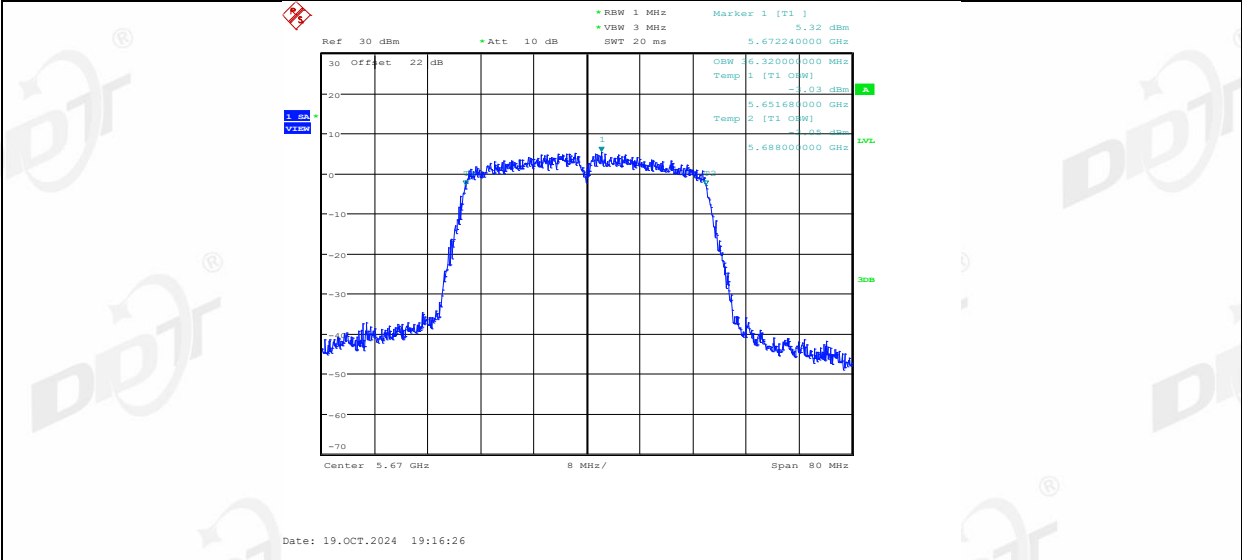


11N40MIMO\_Ant1\_5510

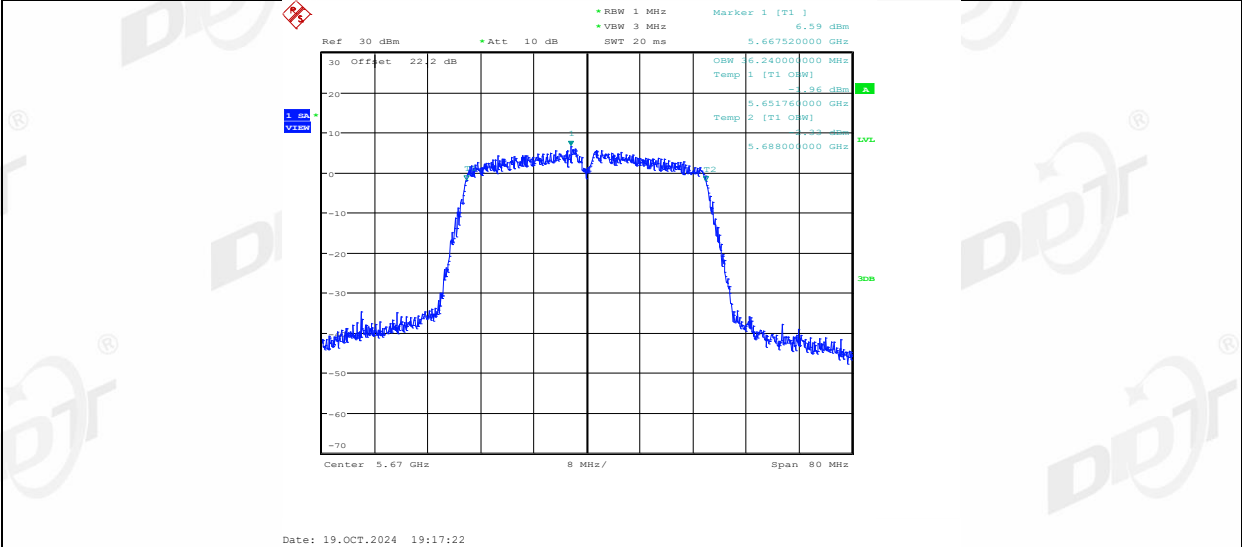




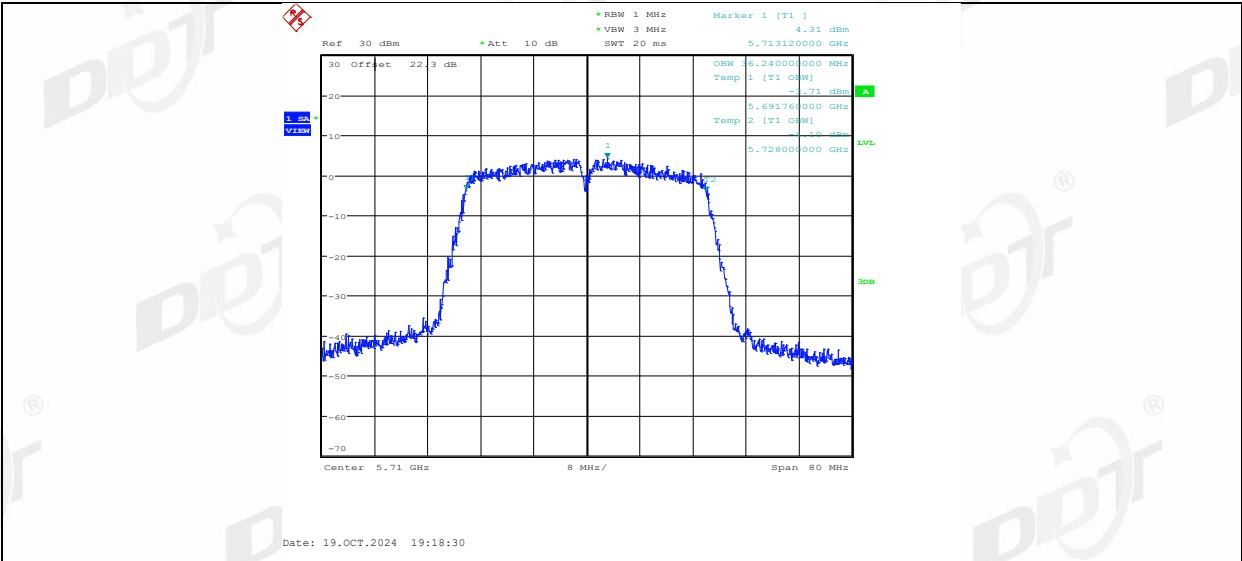
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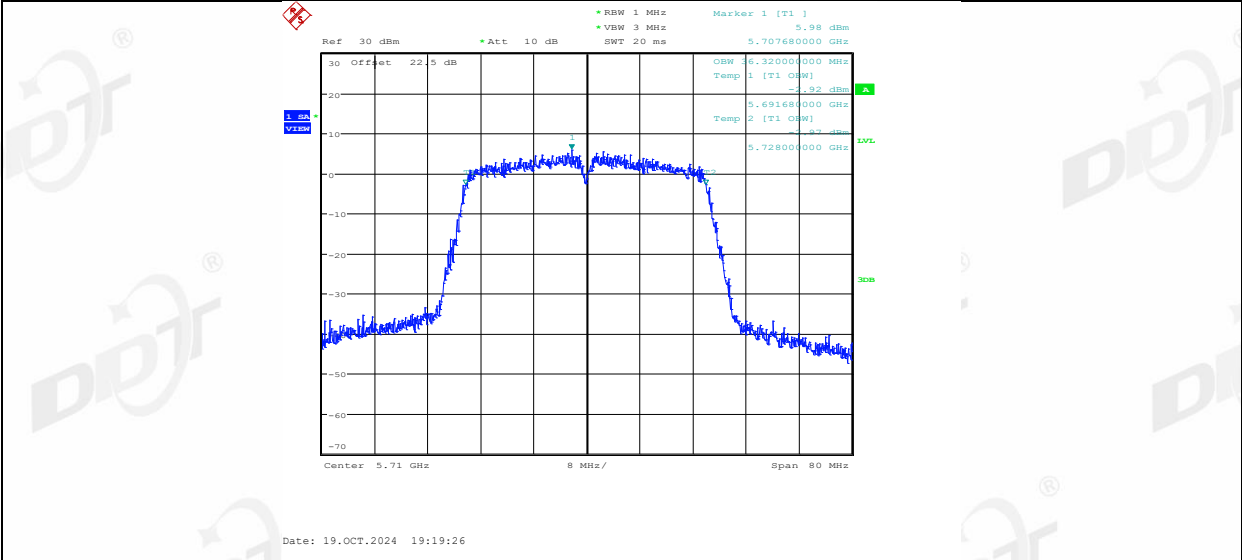
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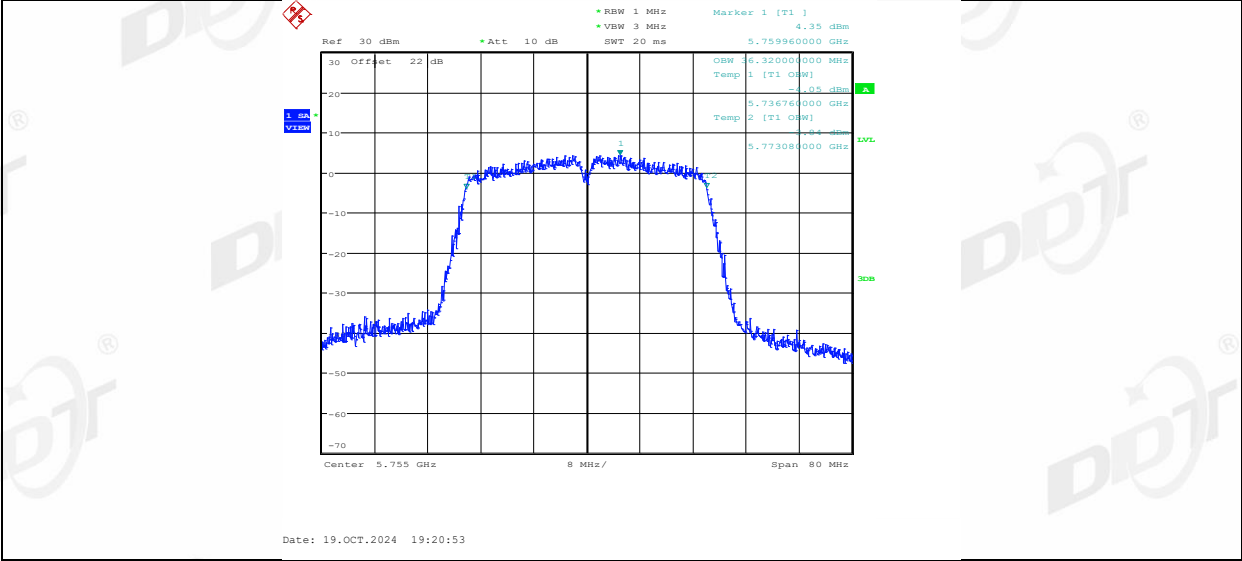
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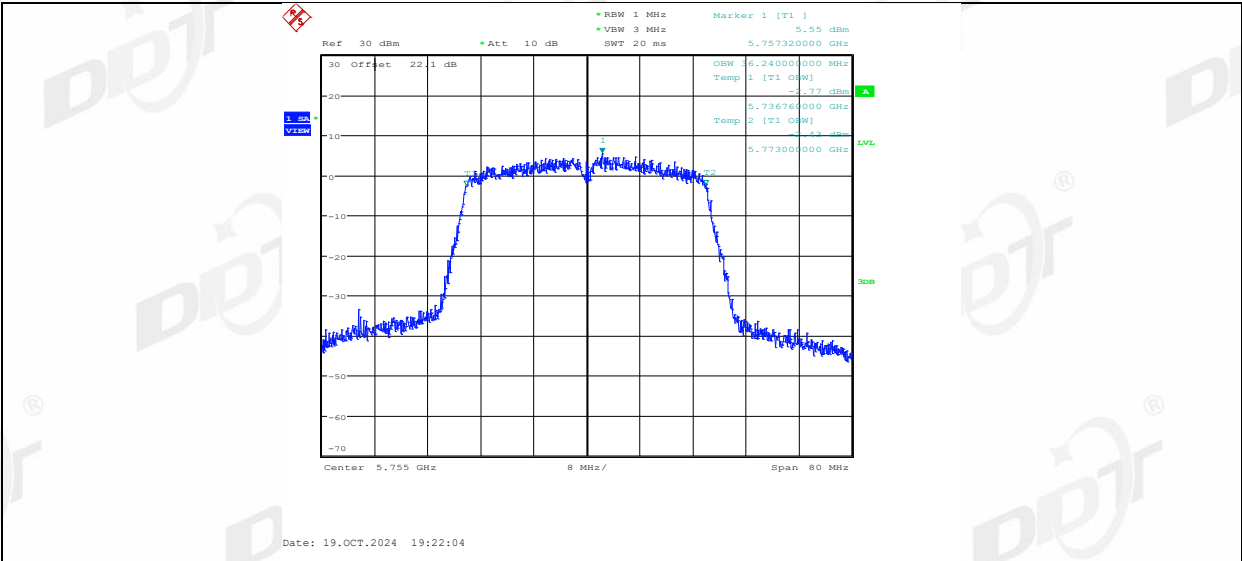
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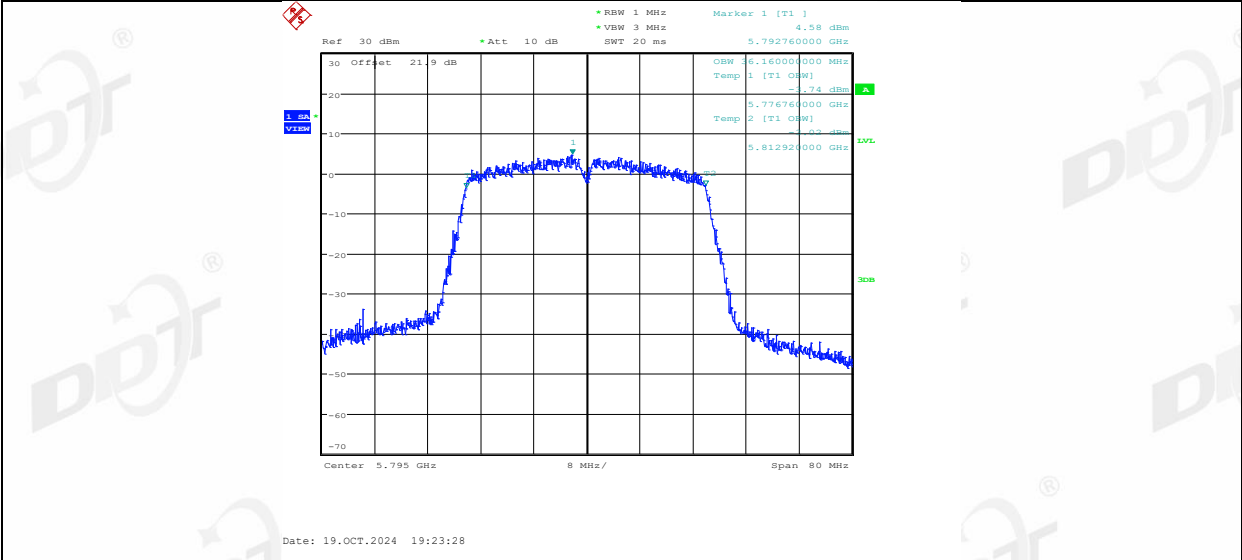
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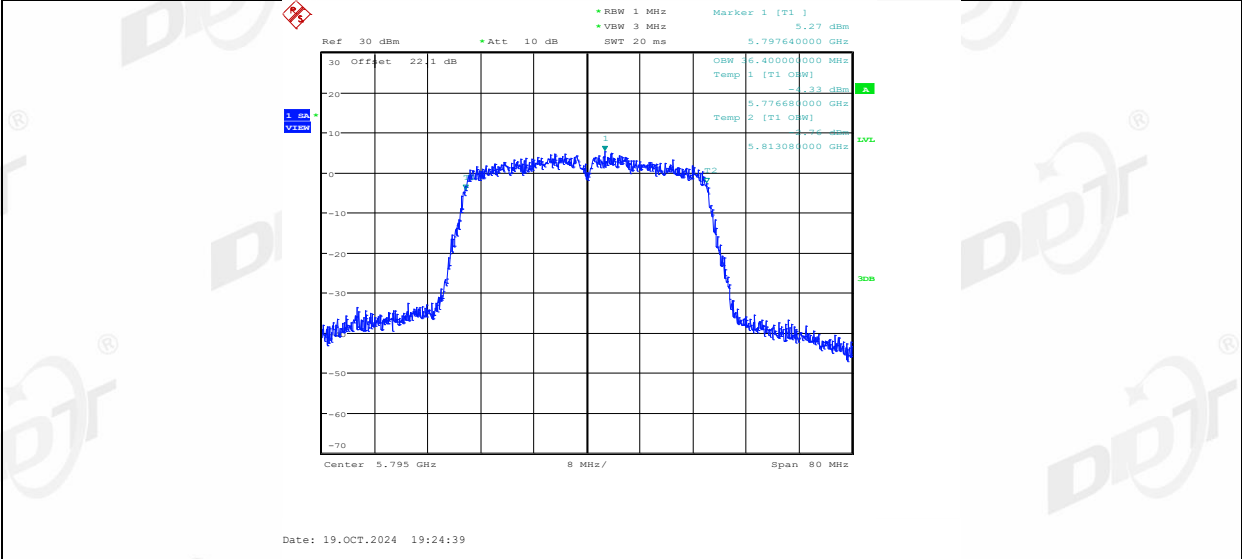
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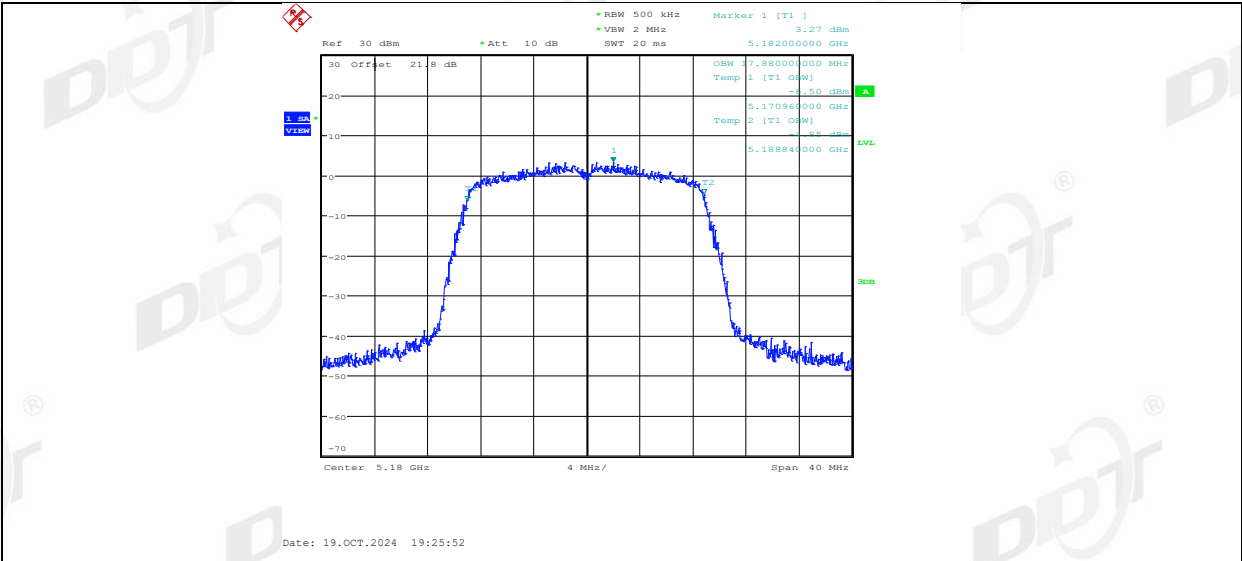
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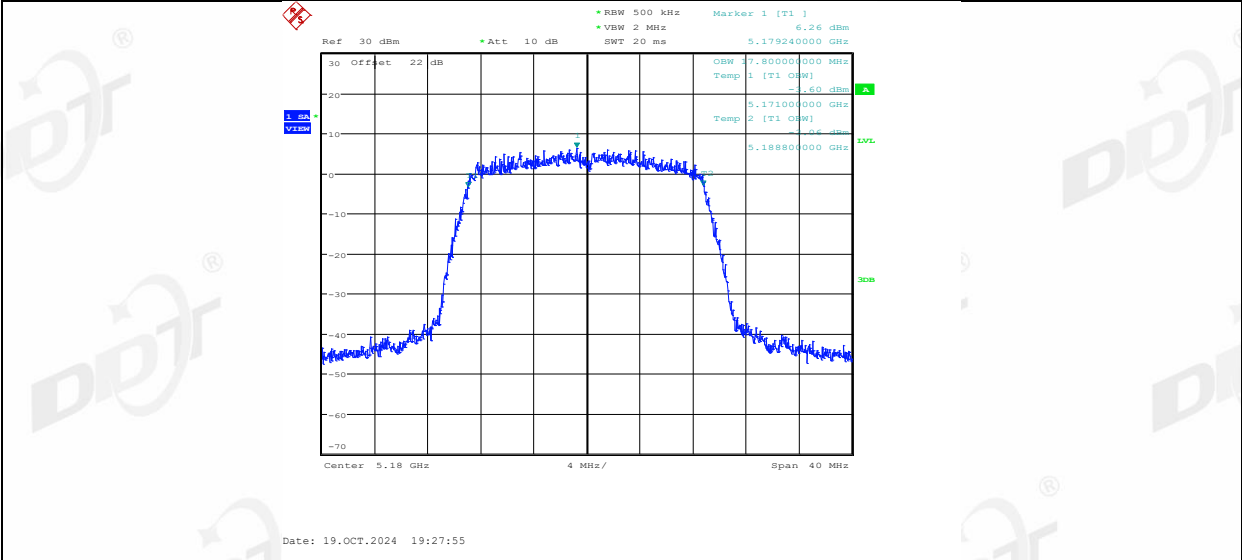
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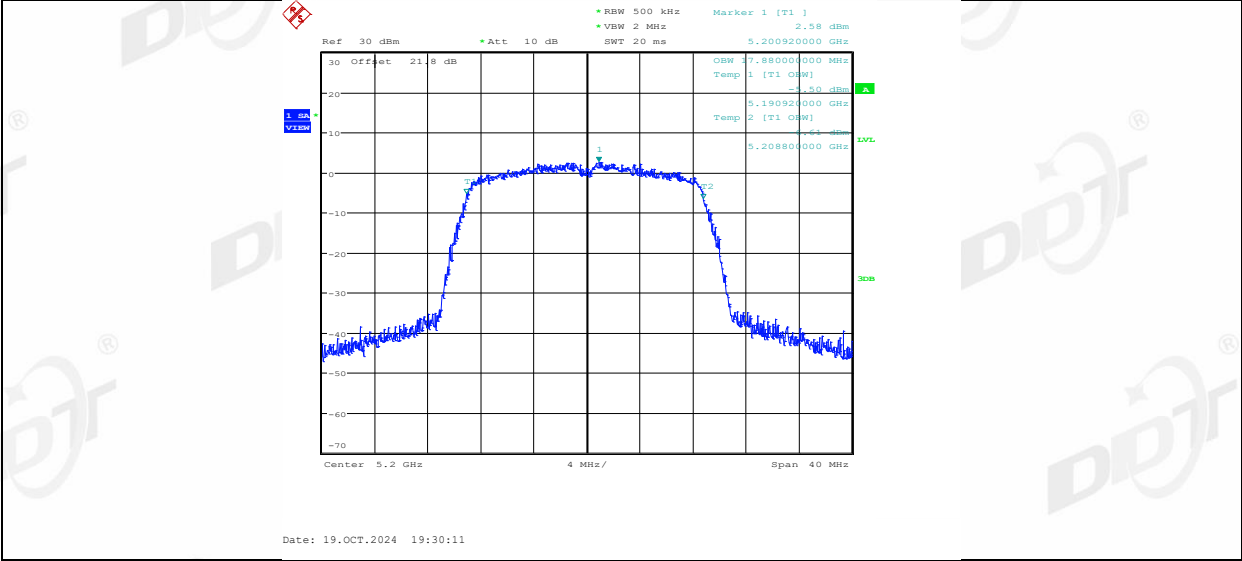
11AC20MIMO\_Ant1\_5180



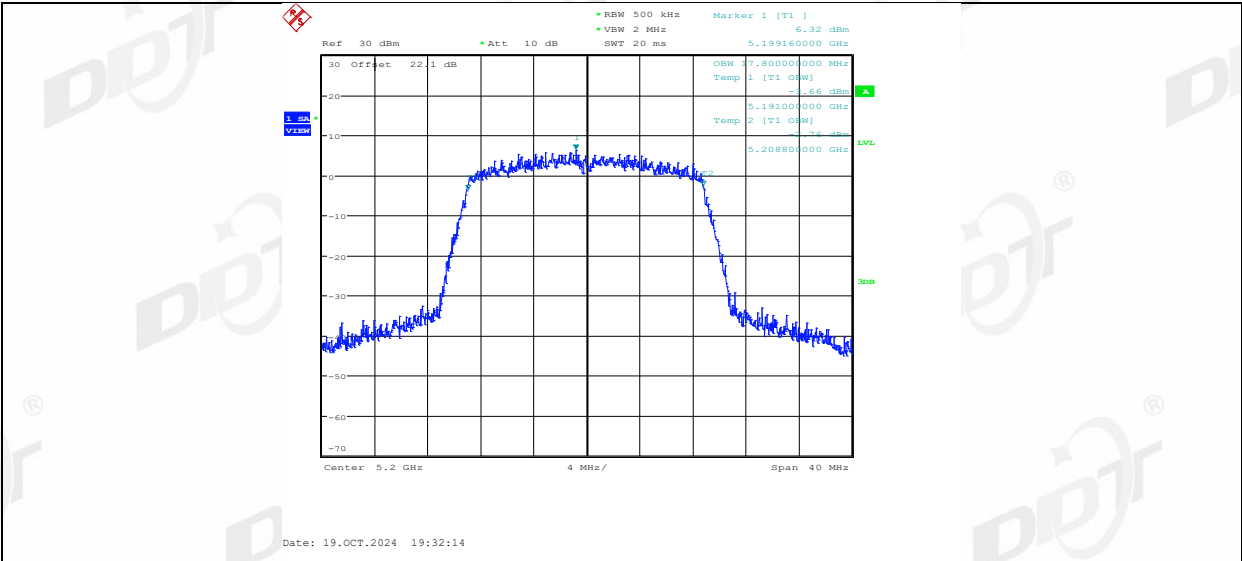
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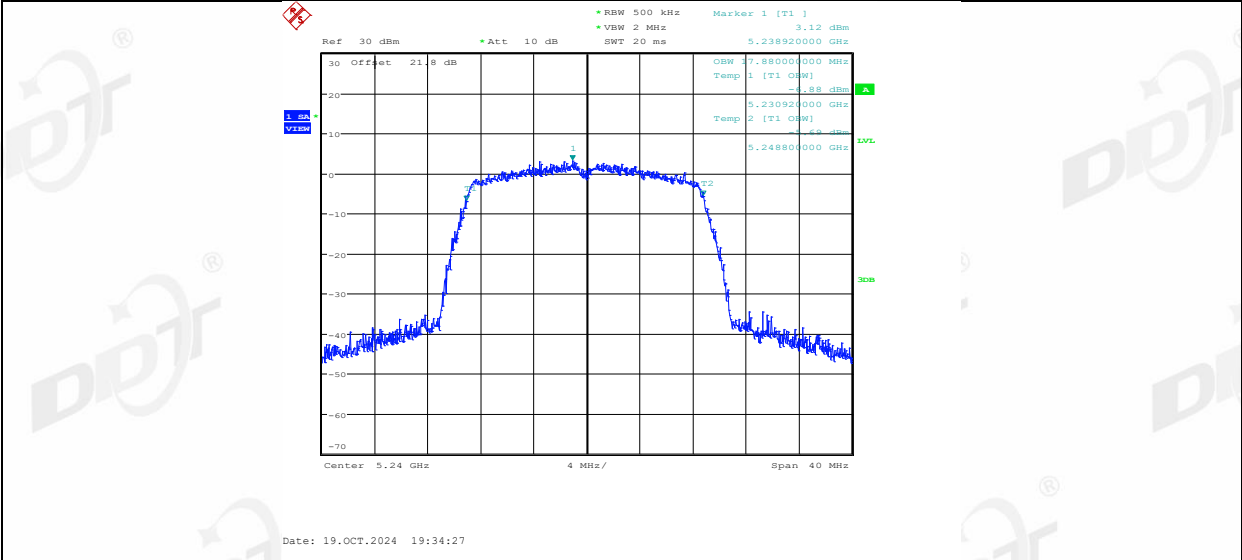
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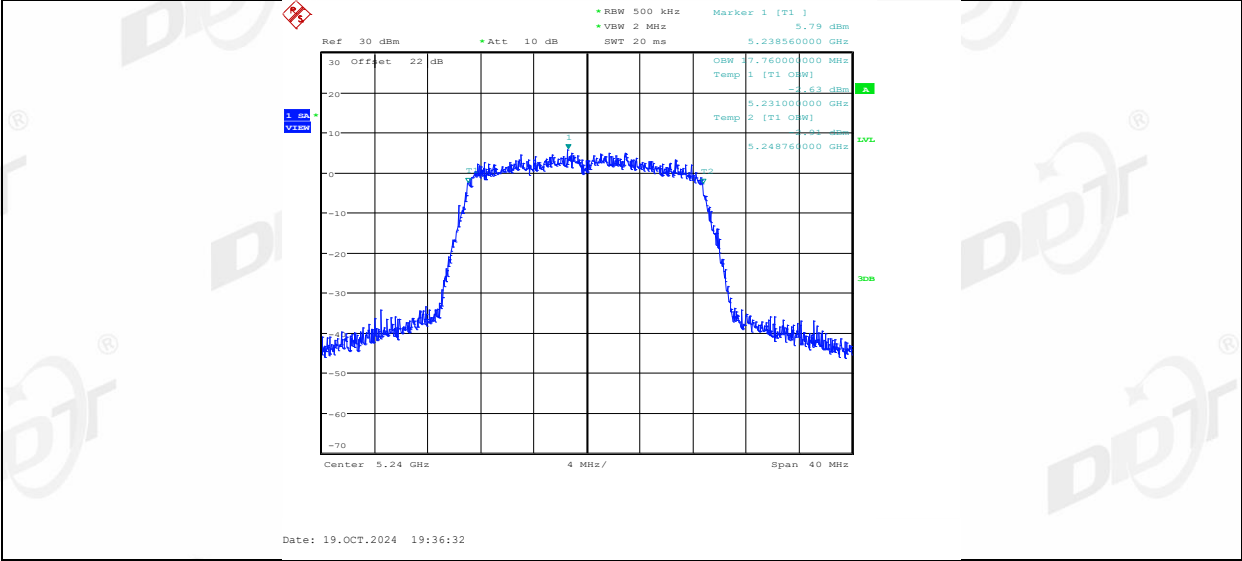
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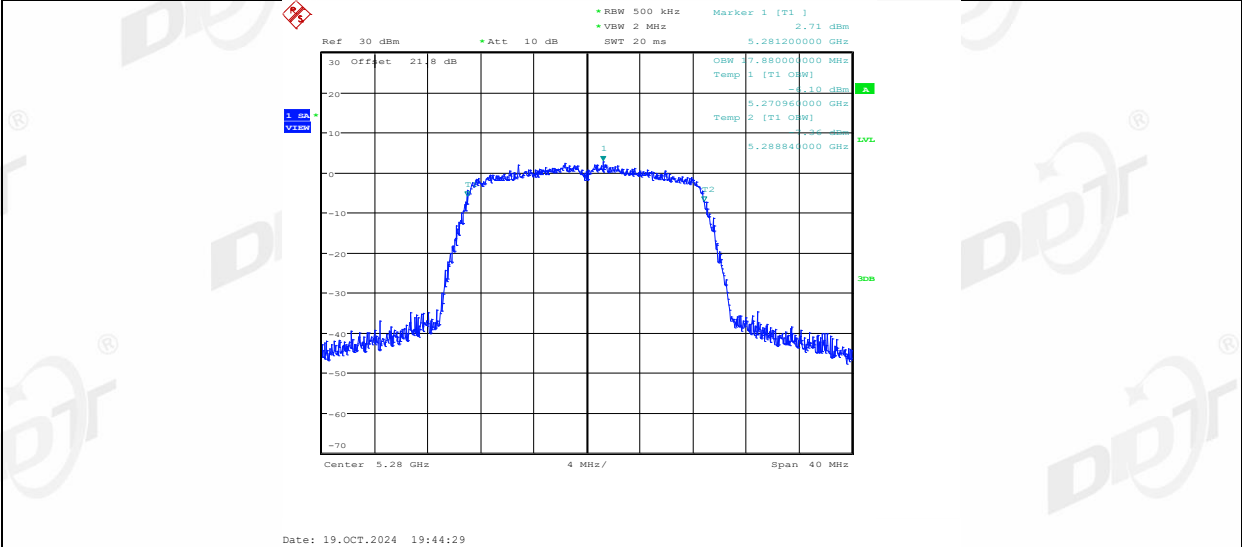
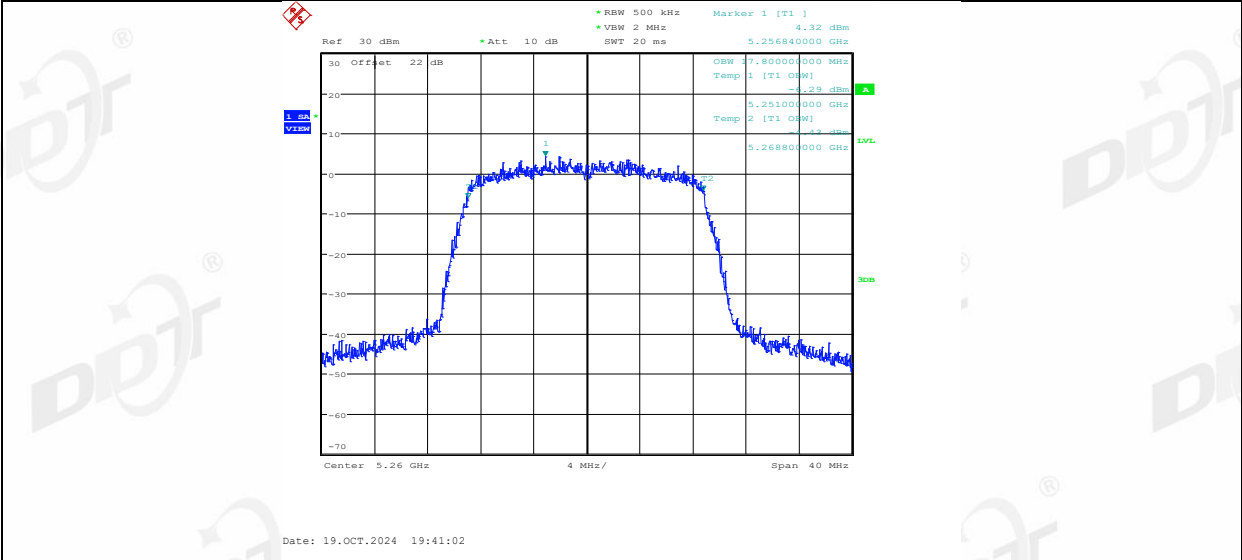
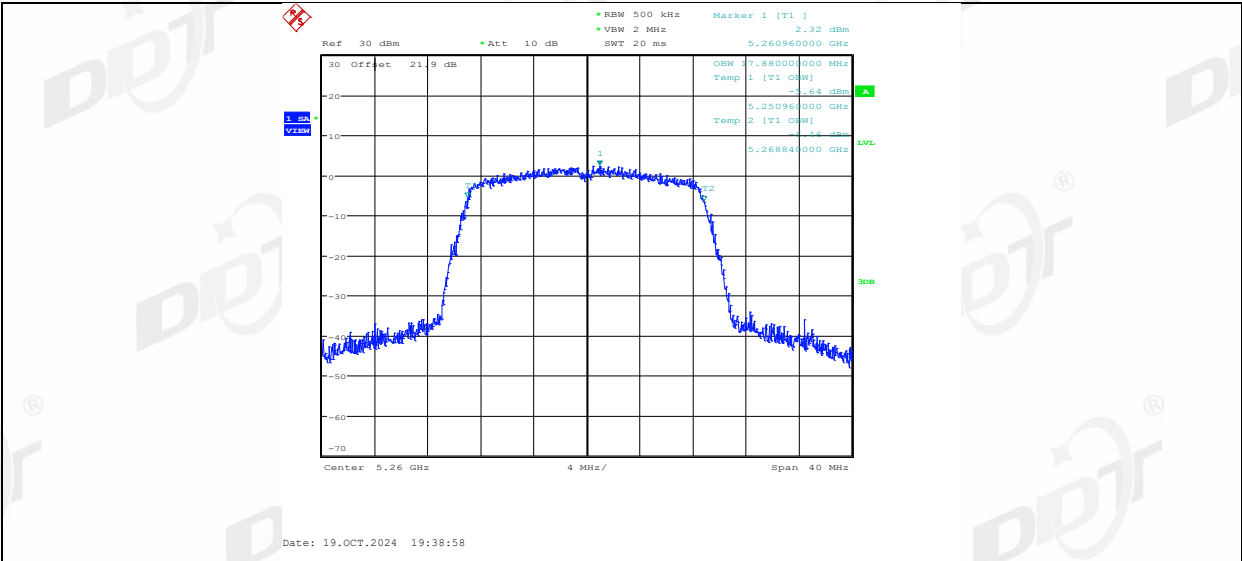
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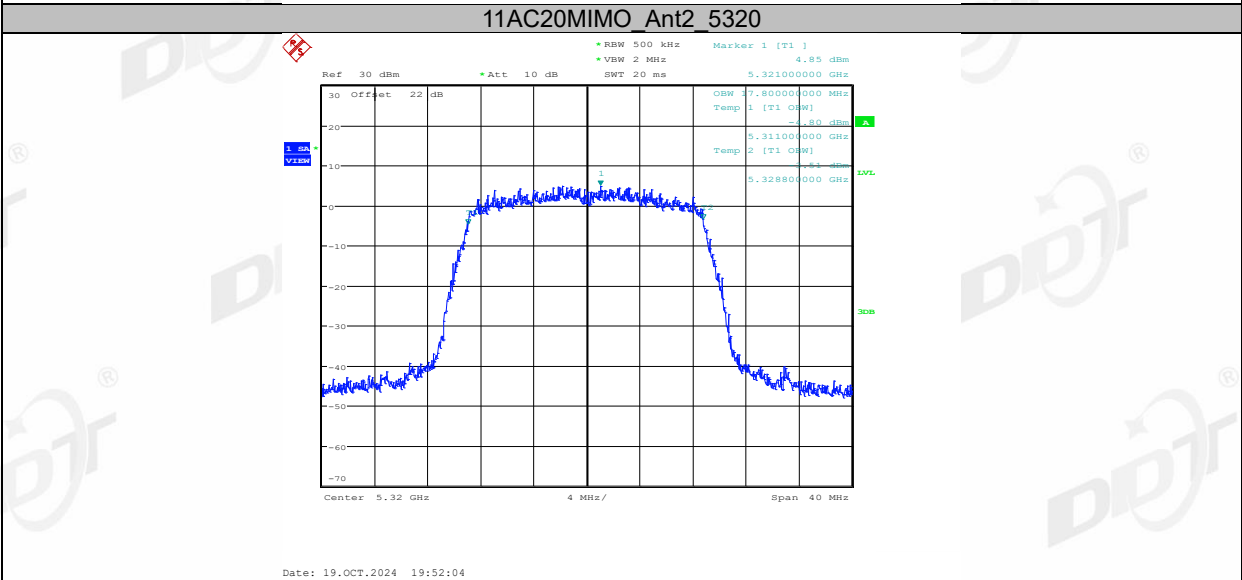
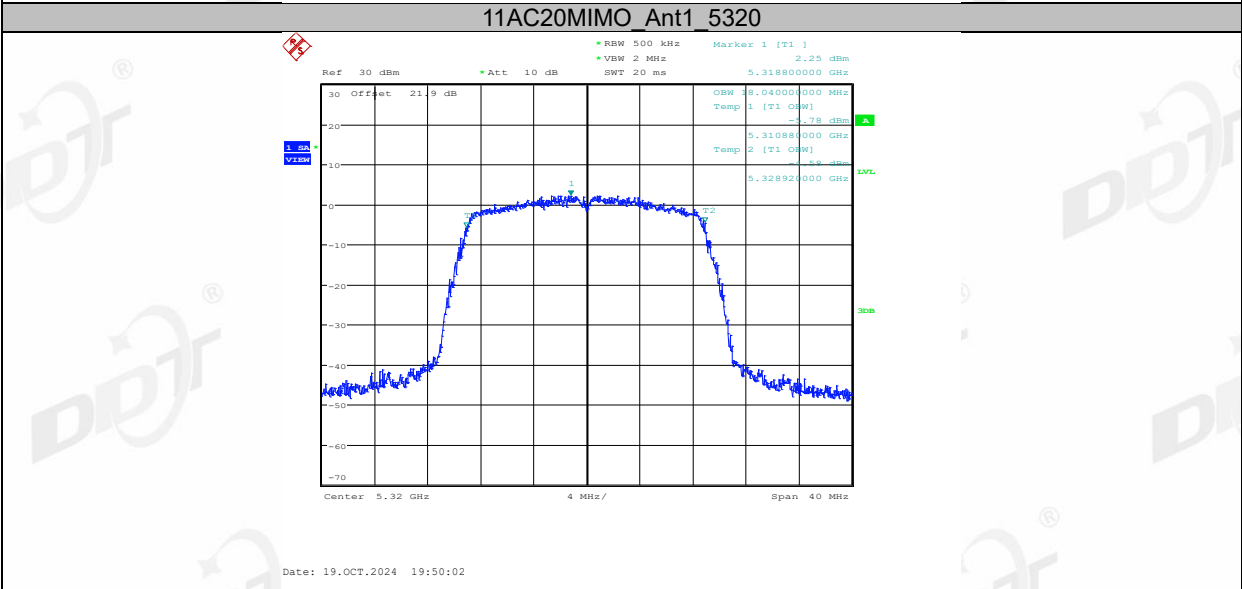
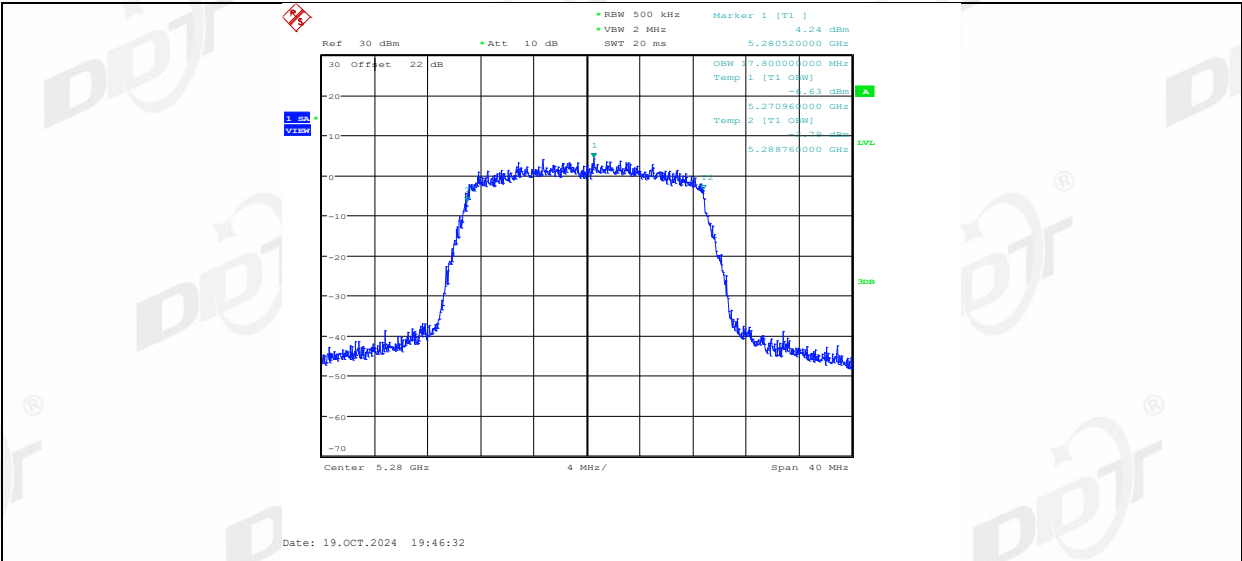
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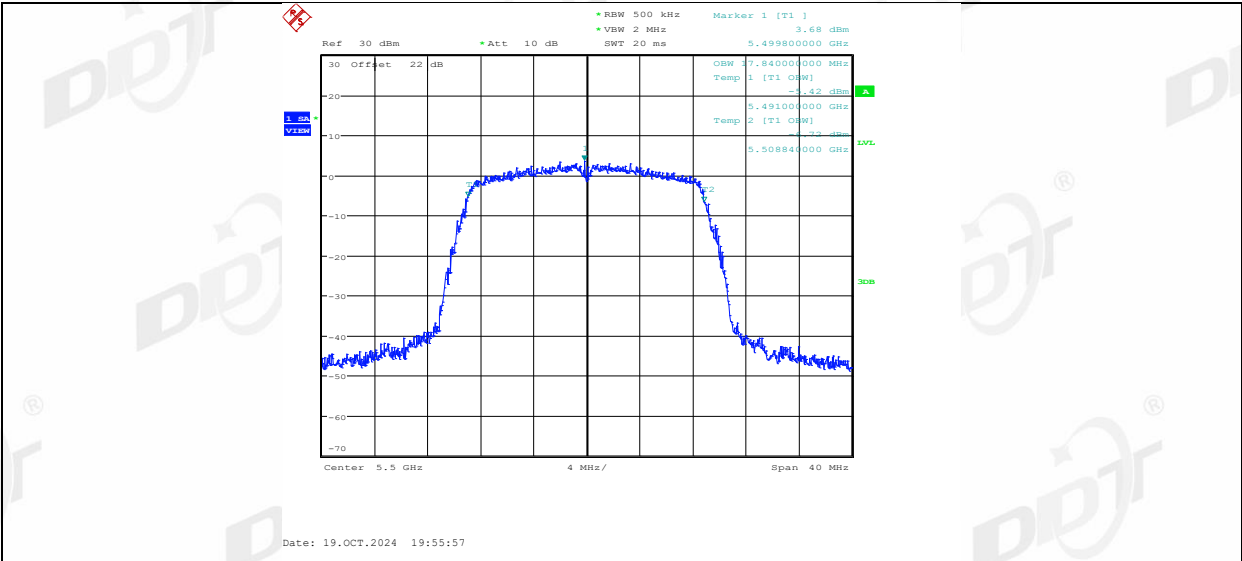


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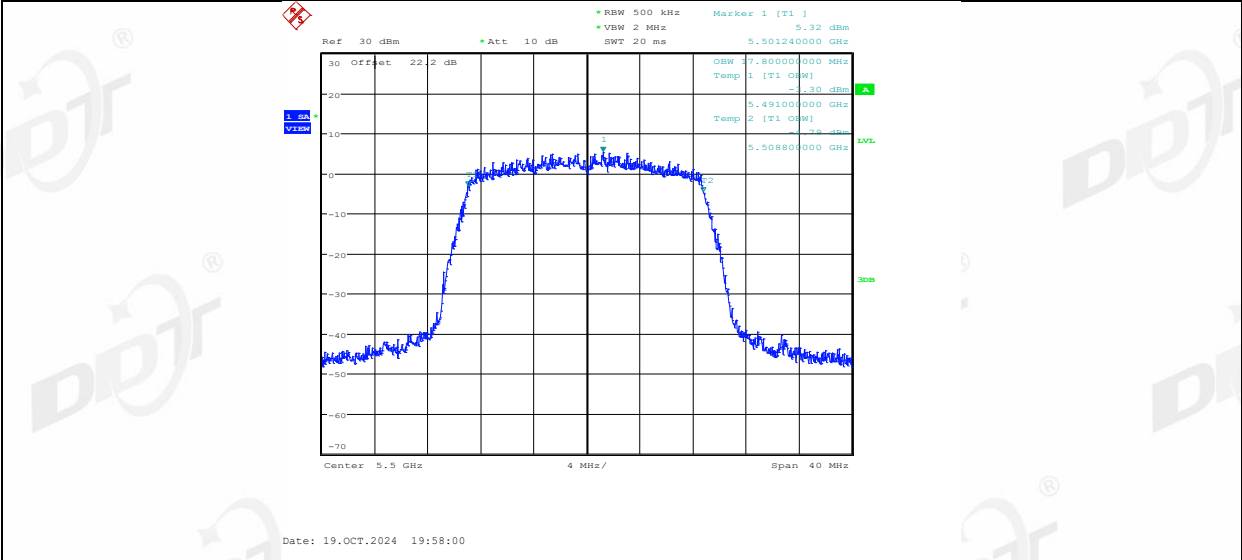


11AC20MIMO\_Ant2\_5280

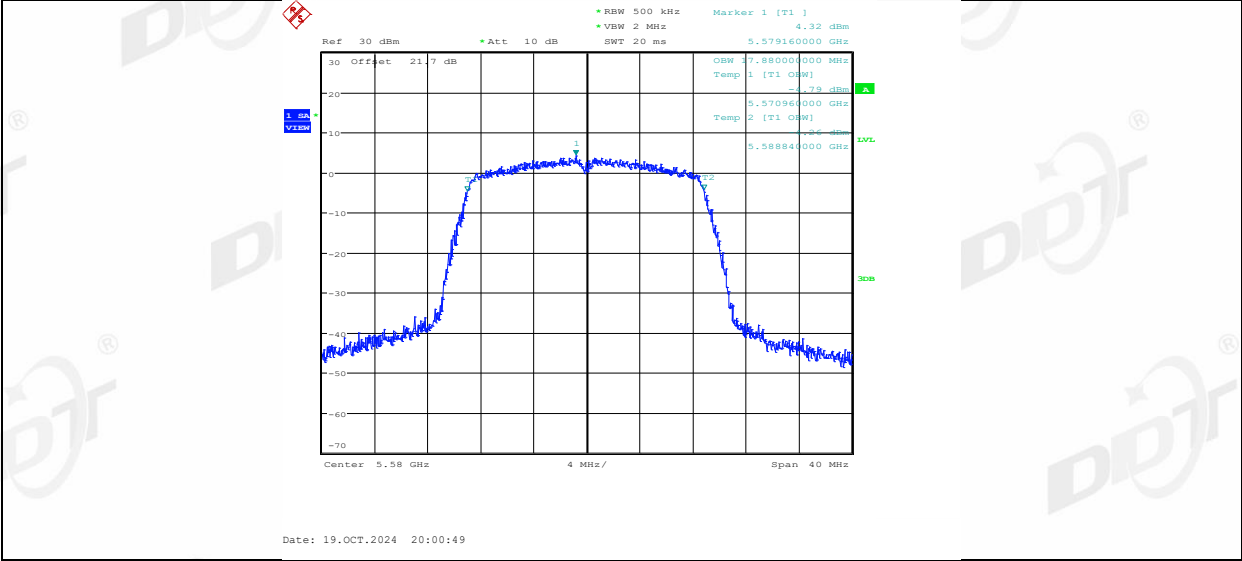




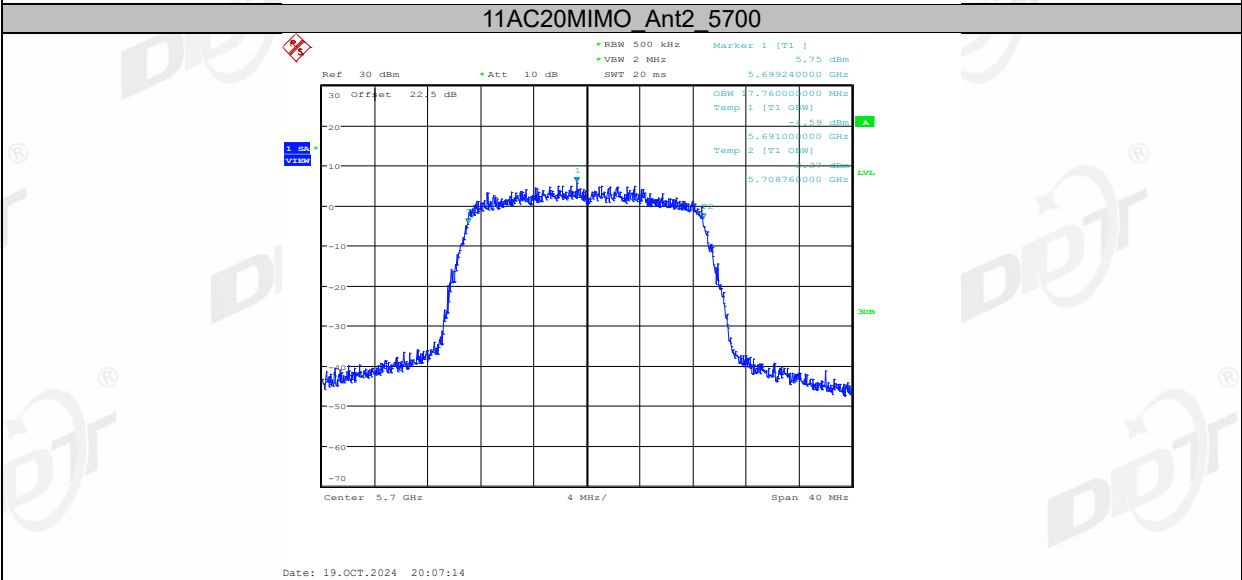
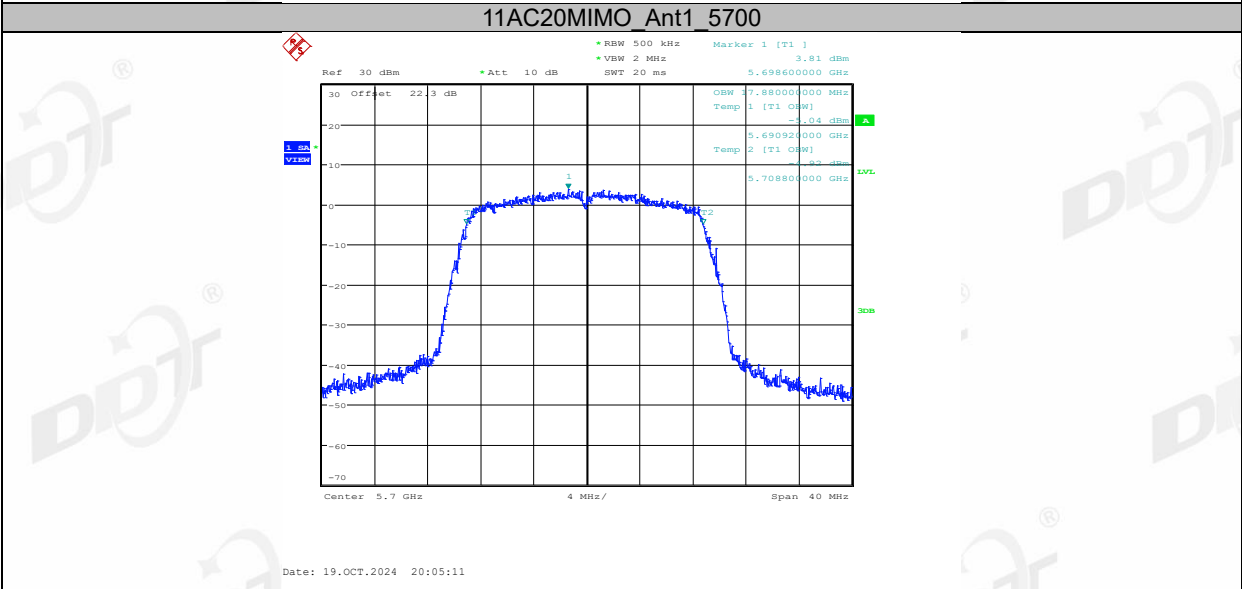
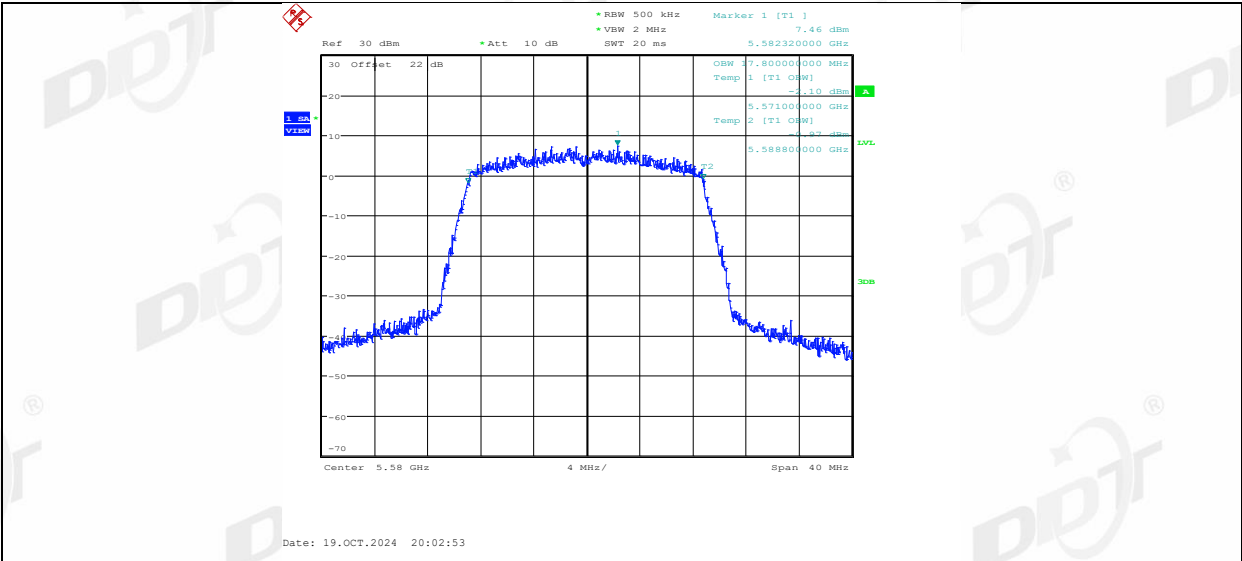
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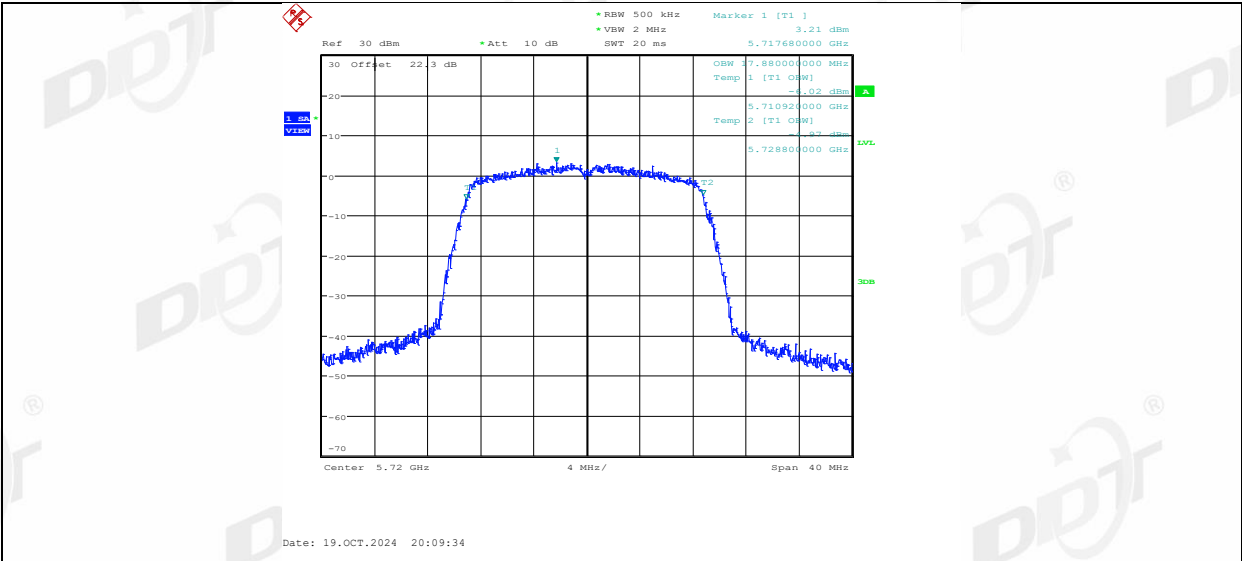
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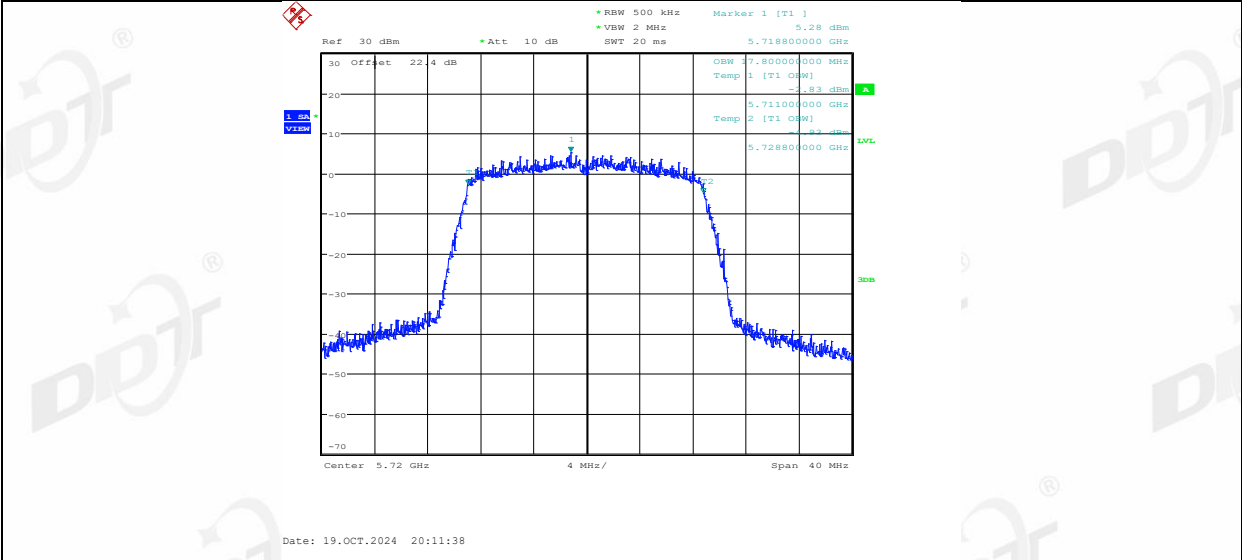
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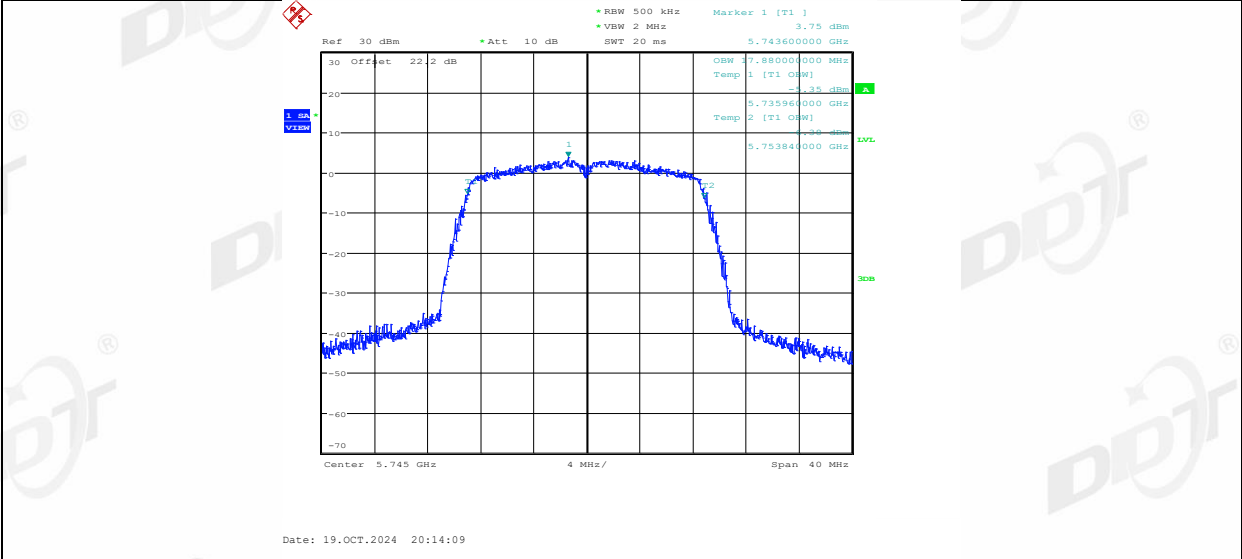
11AC20MIMO Ant1 5720



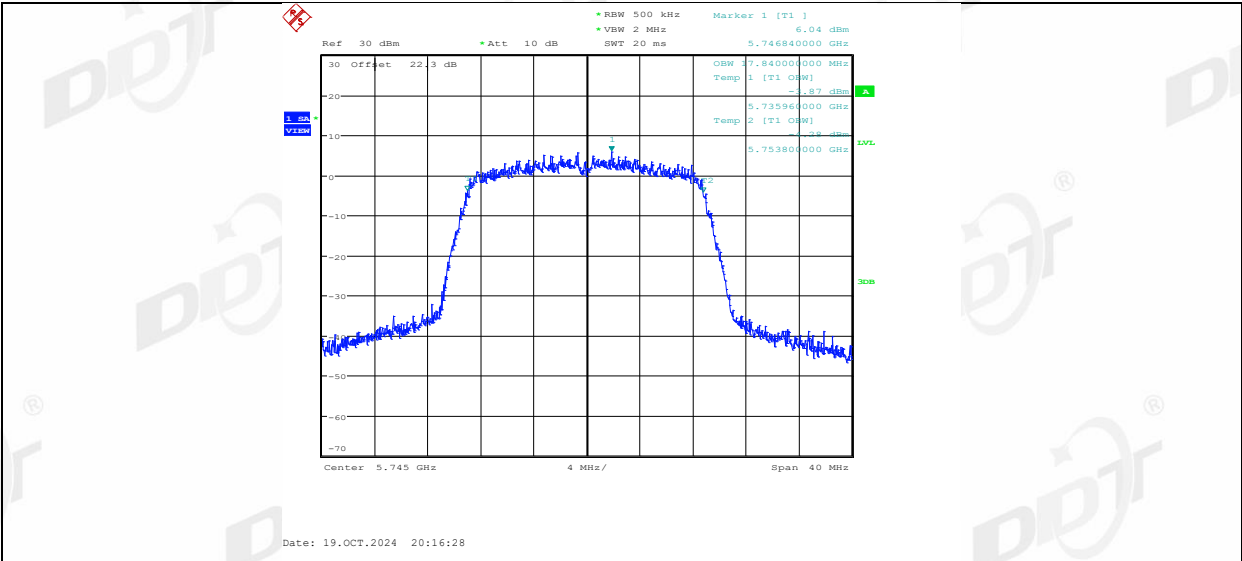
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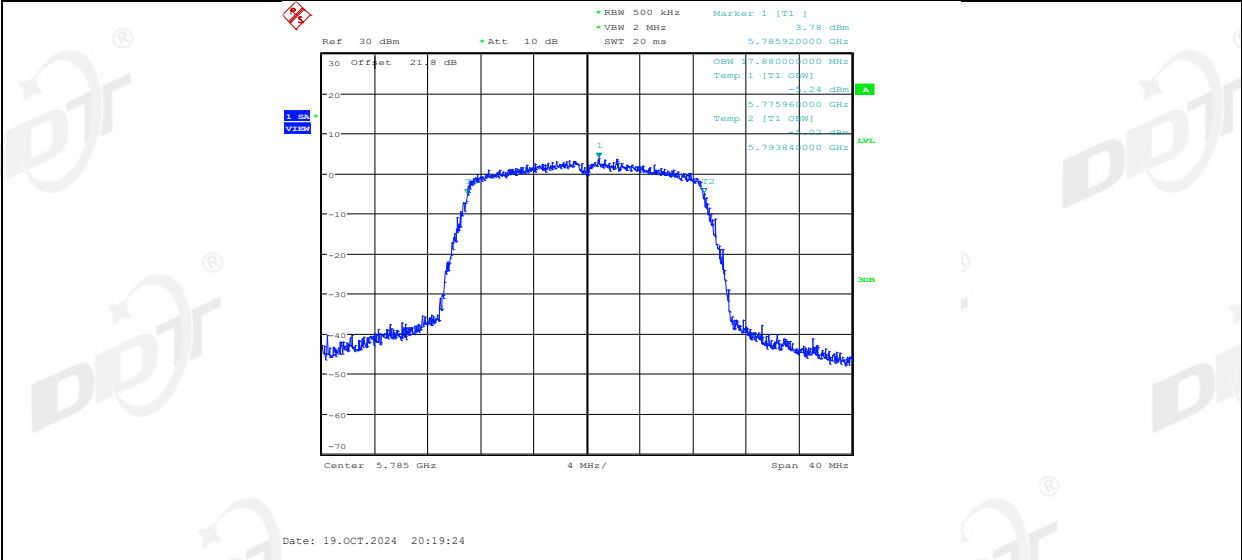
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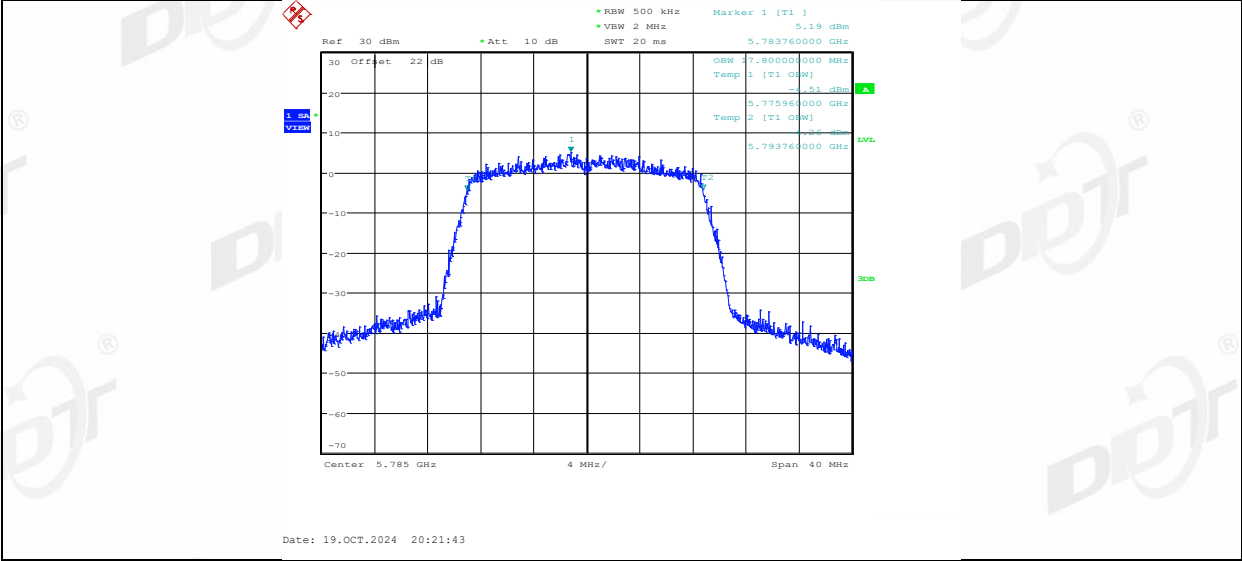
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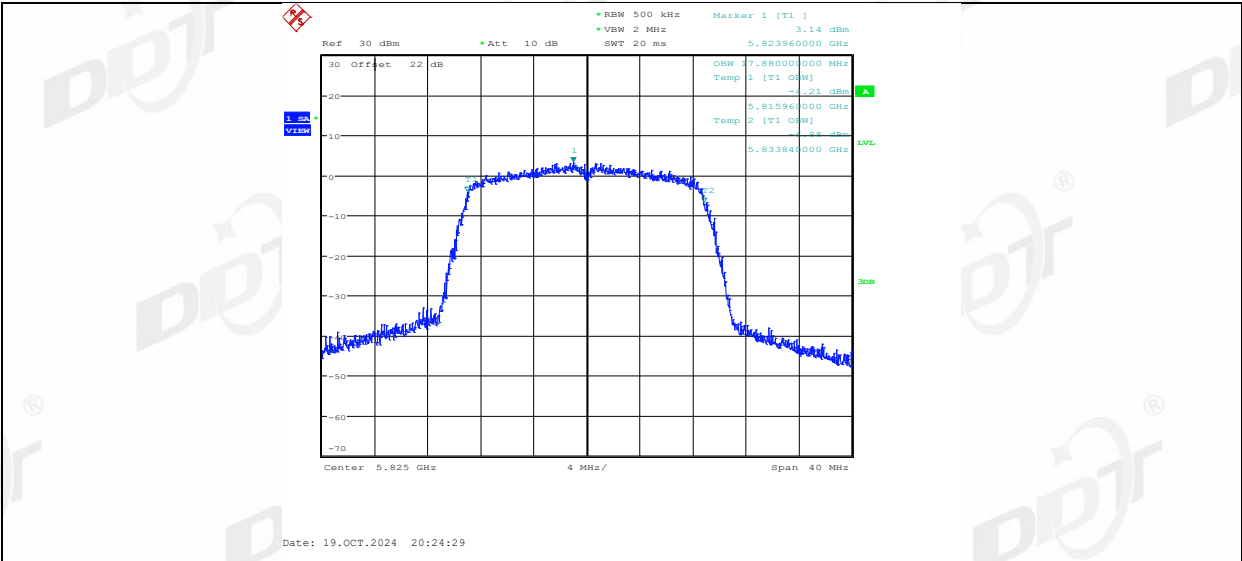
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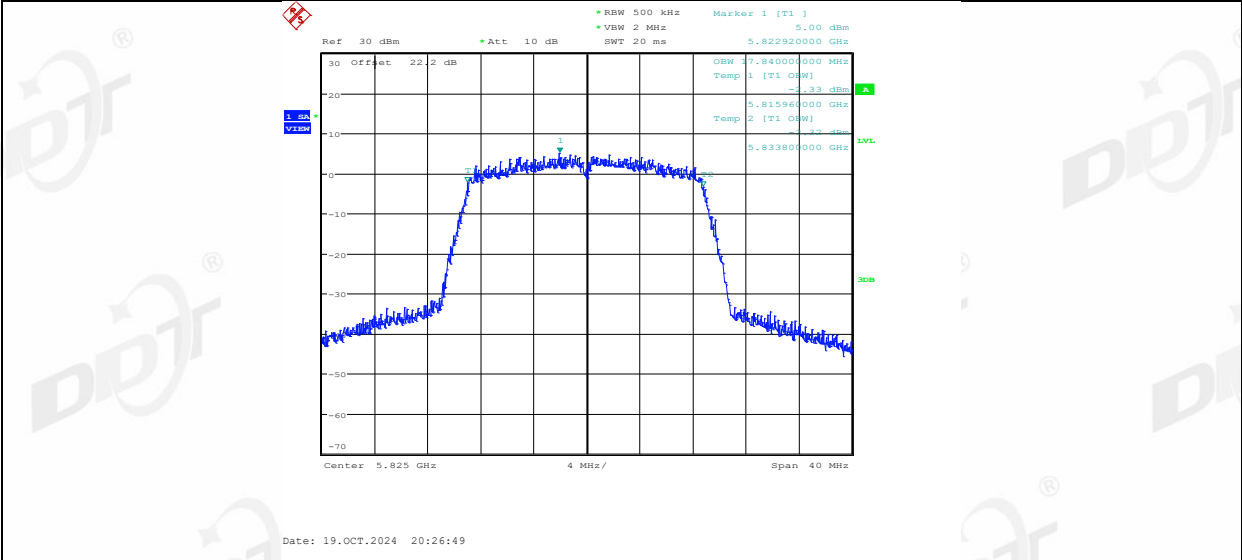
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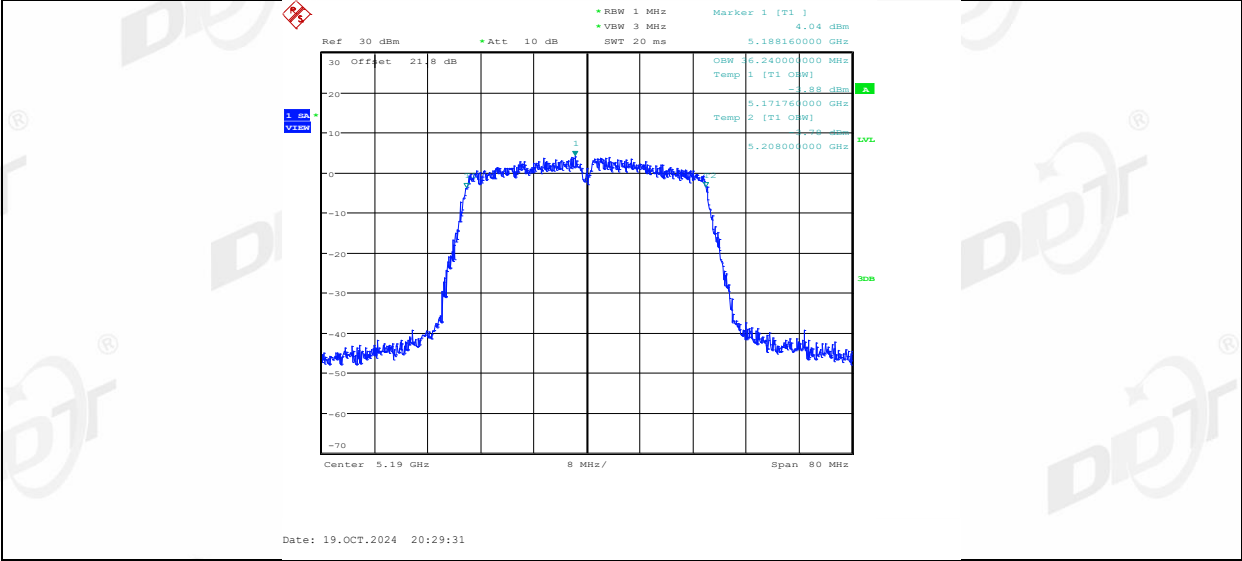
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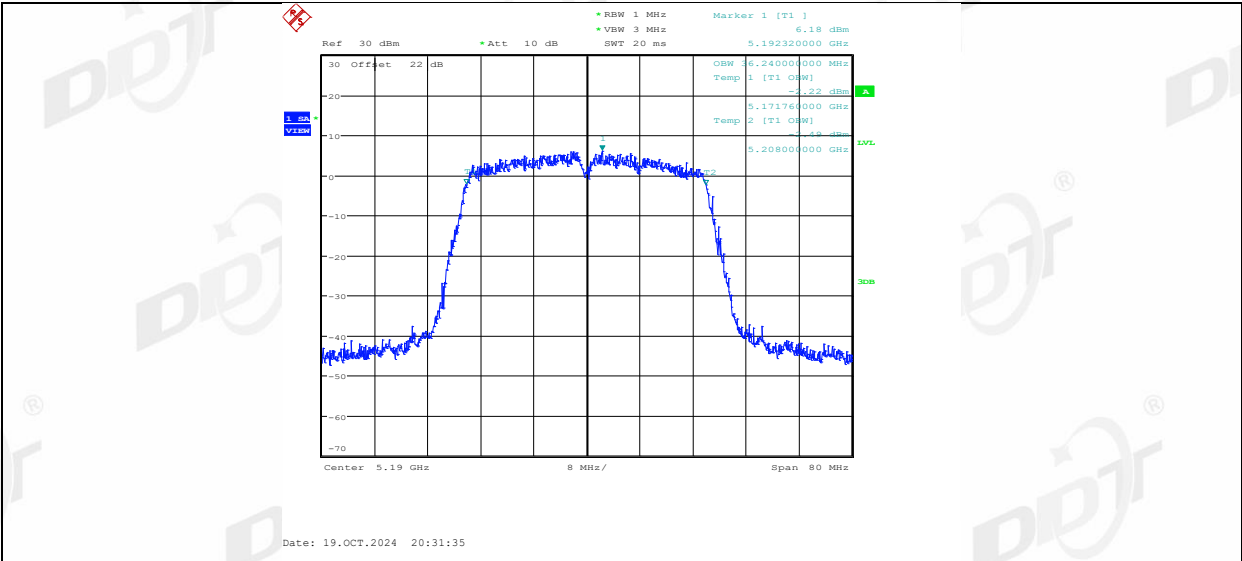
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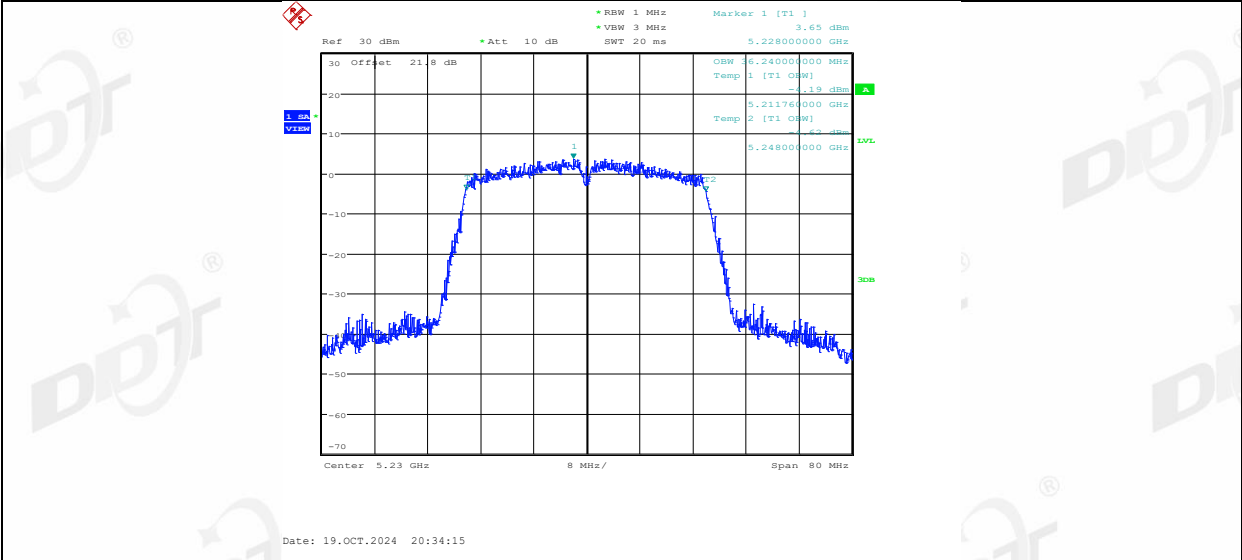
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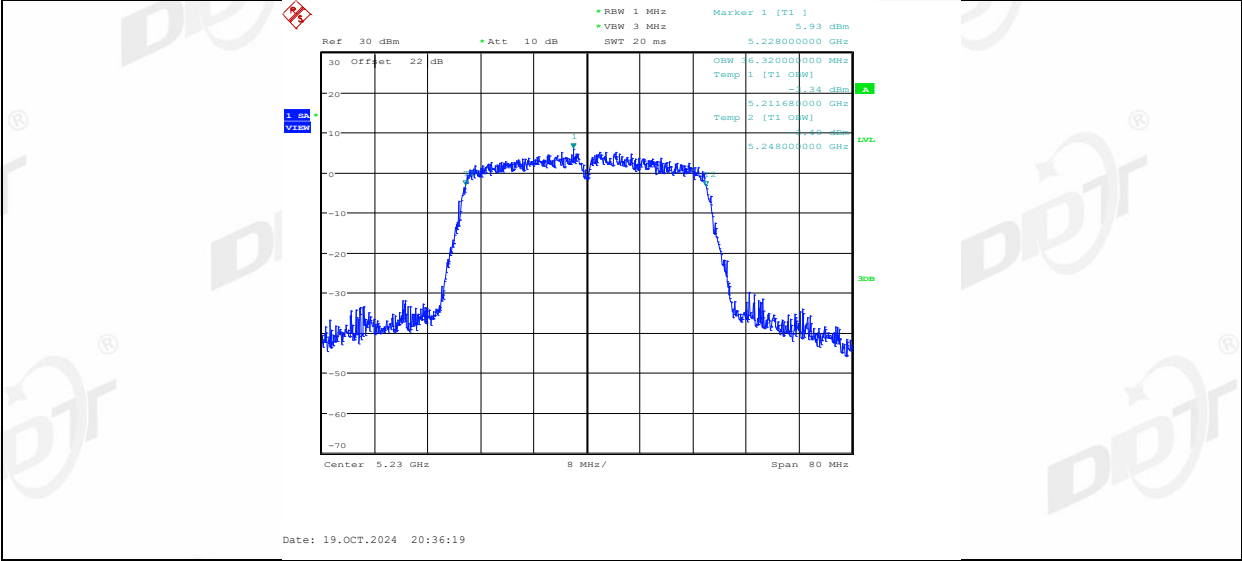
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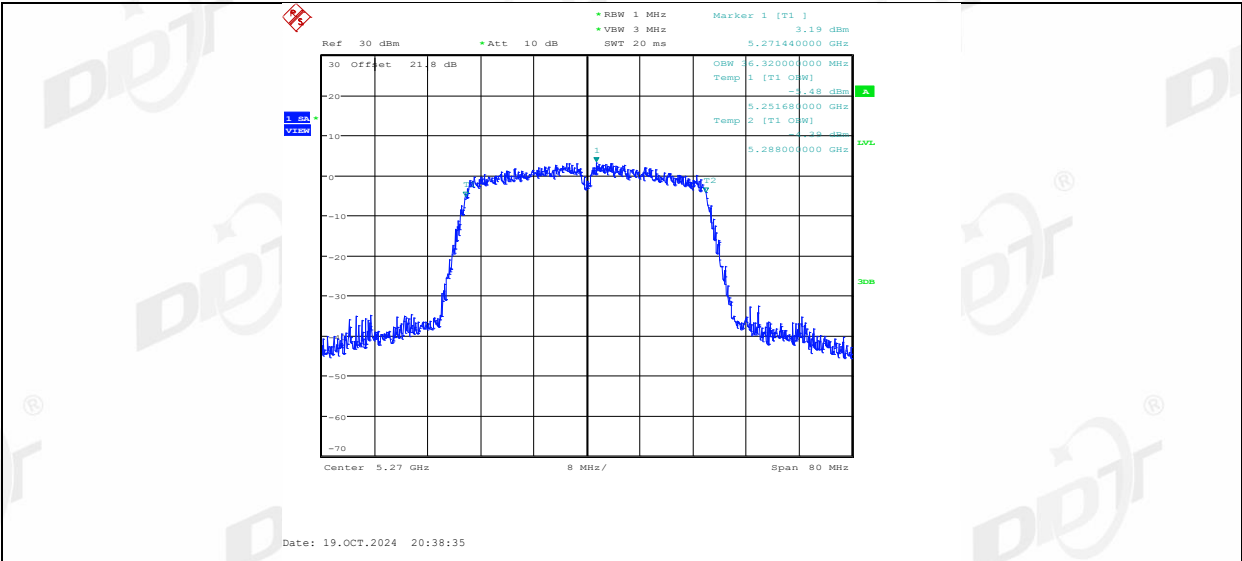
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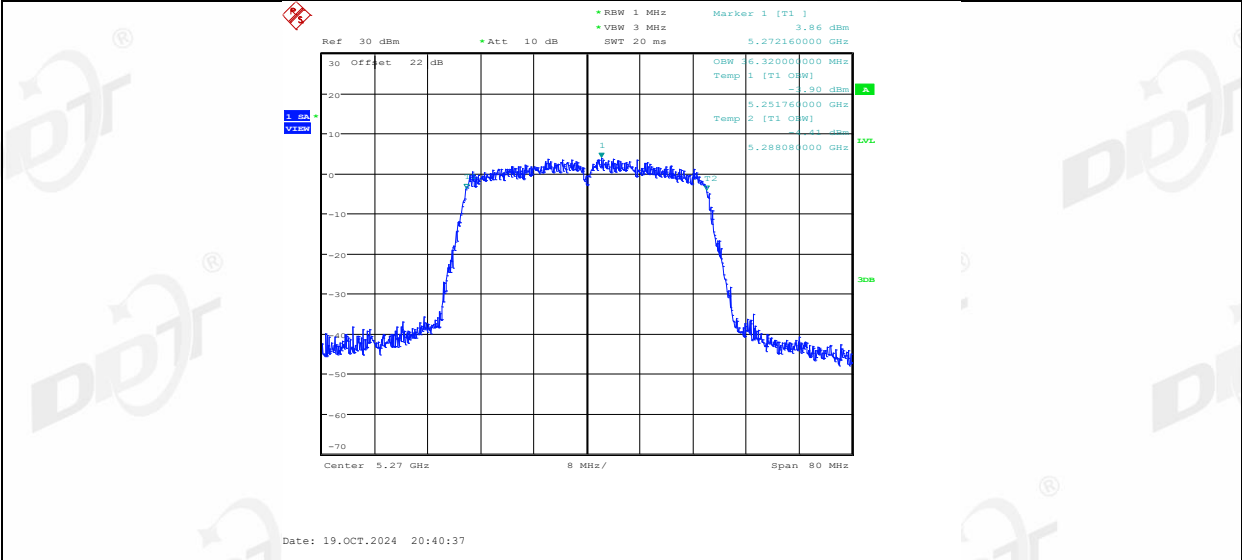
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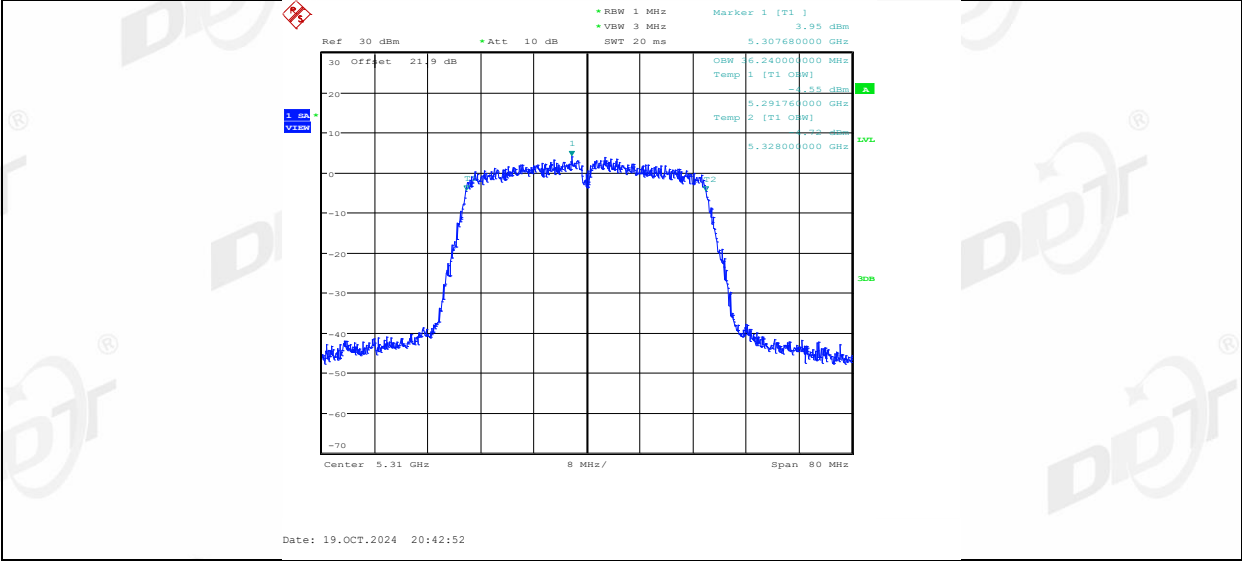
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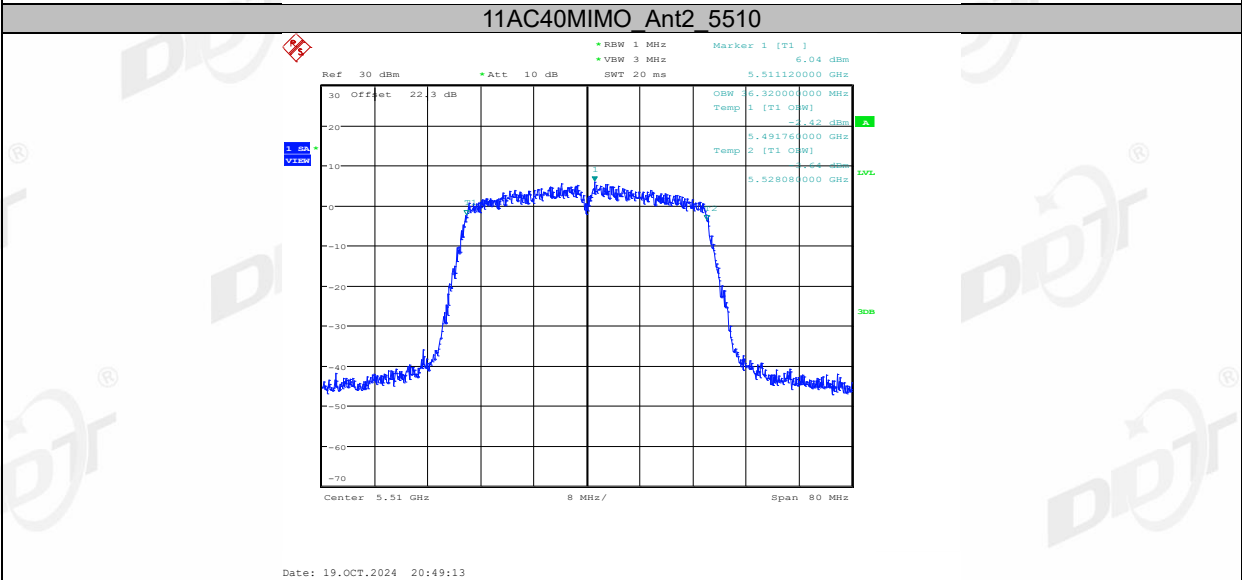
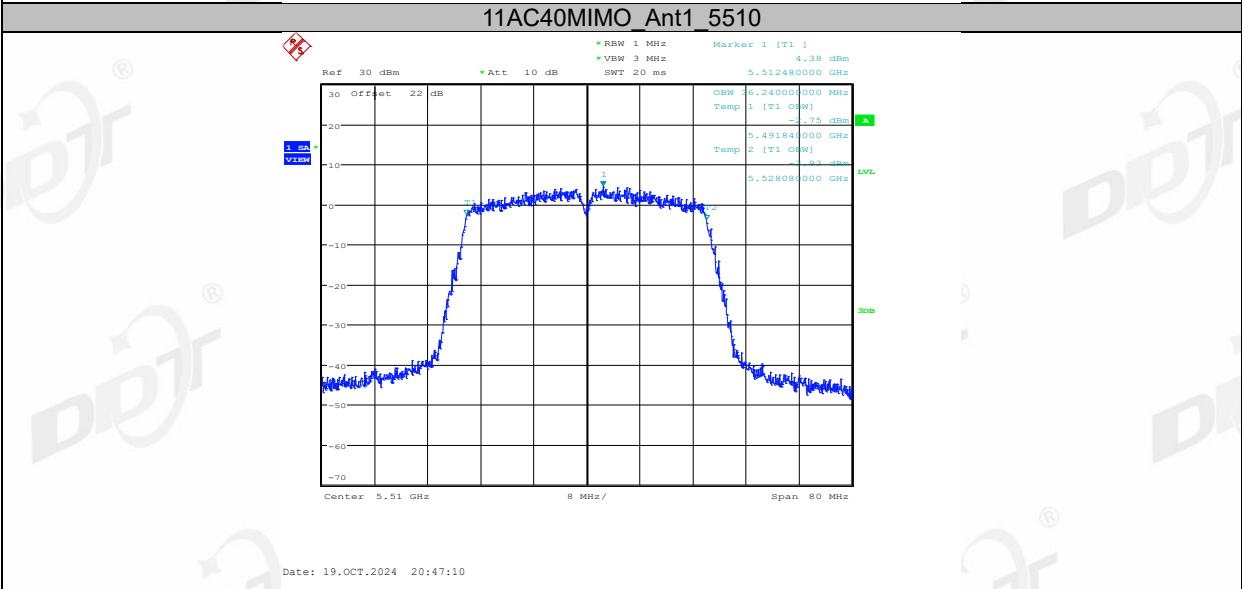
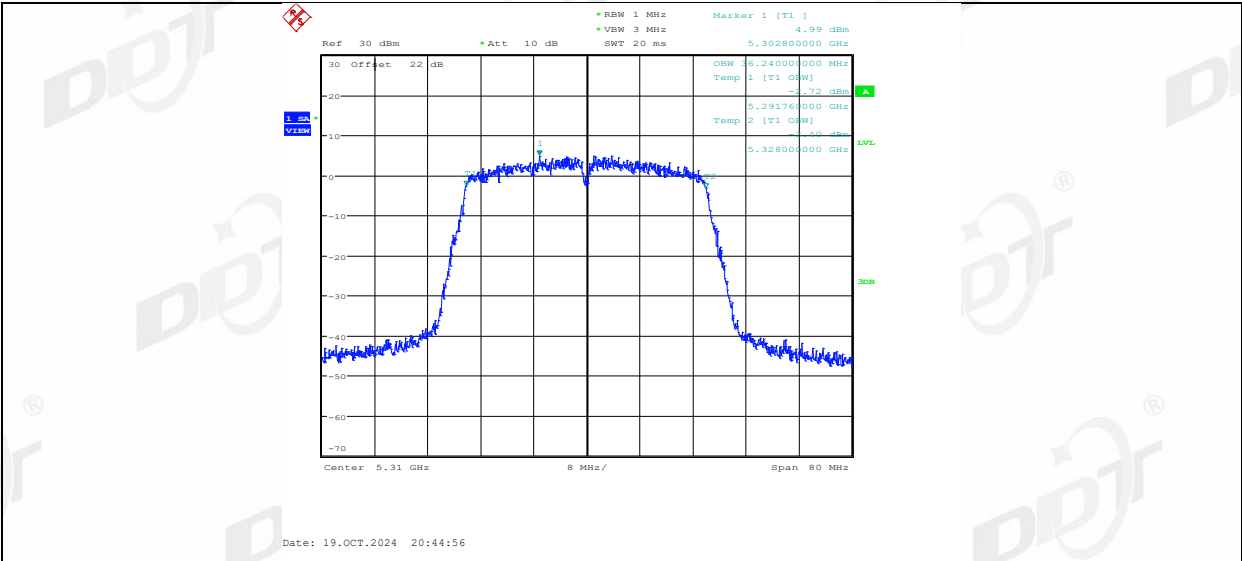
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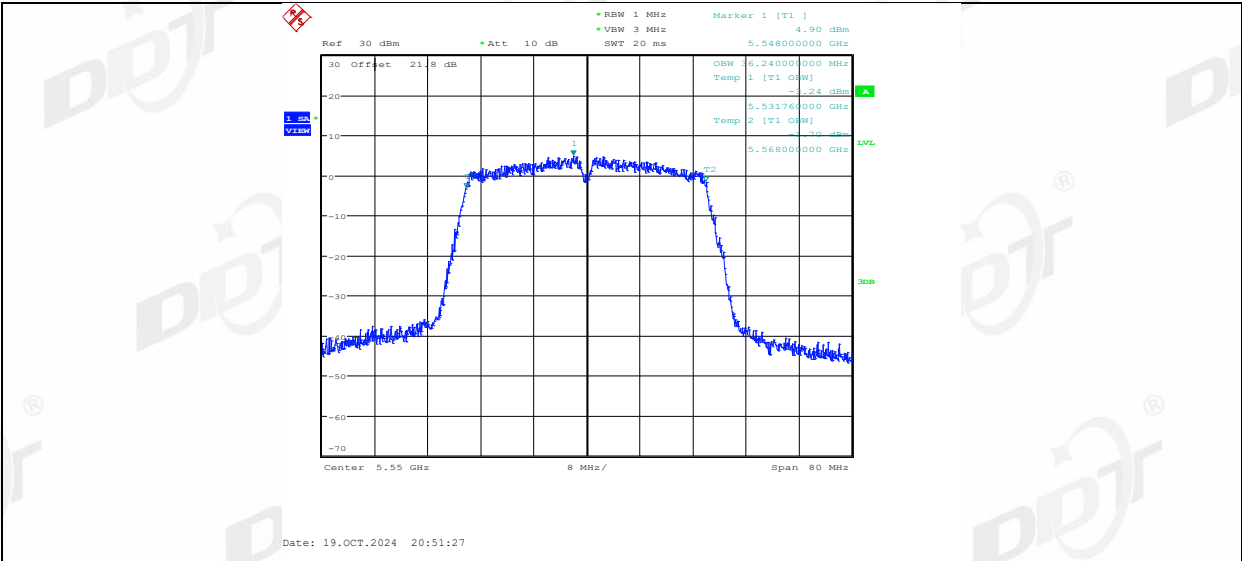
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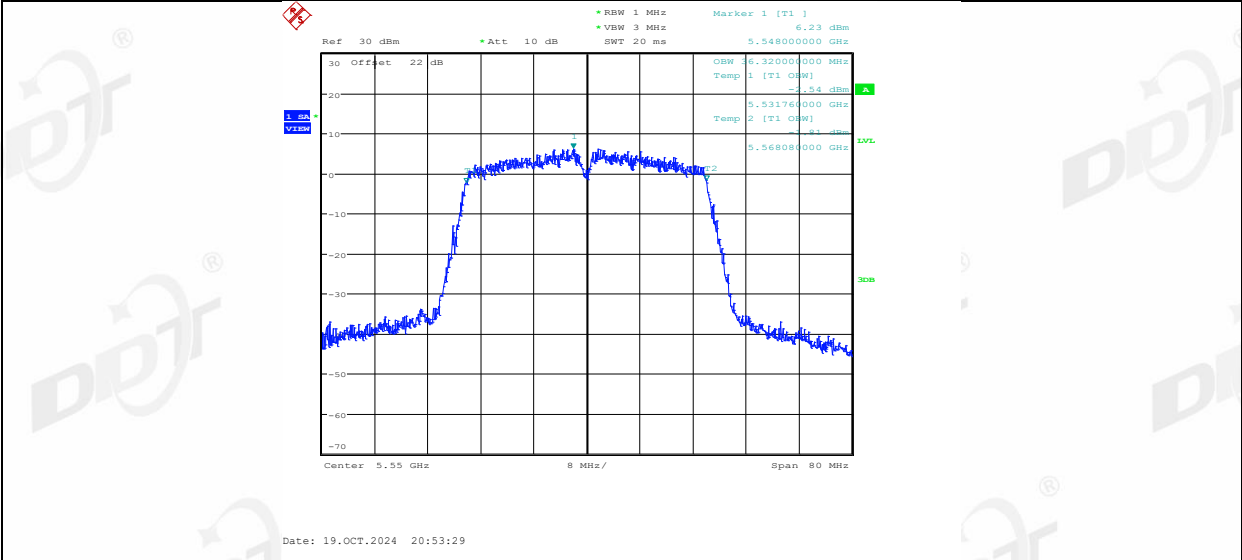
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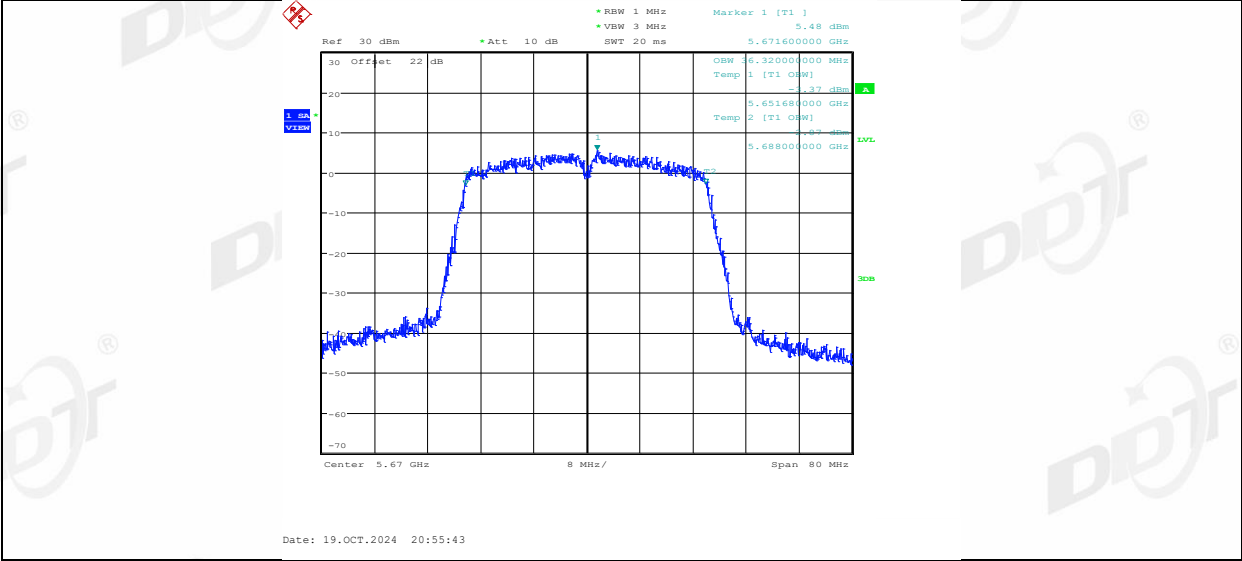
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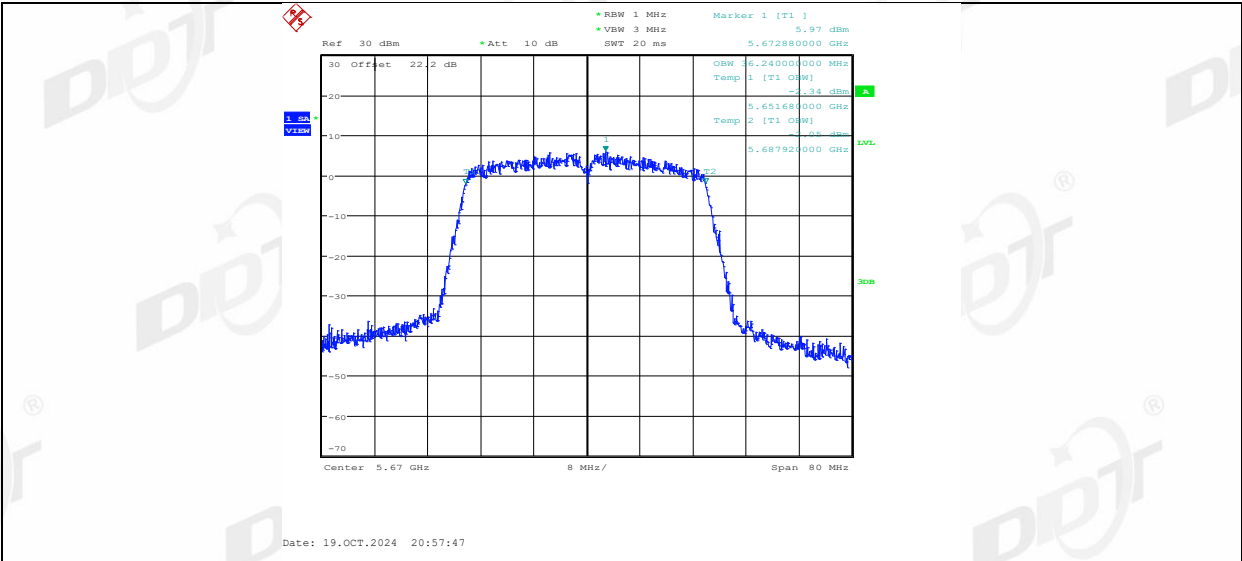
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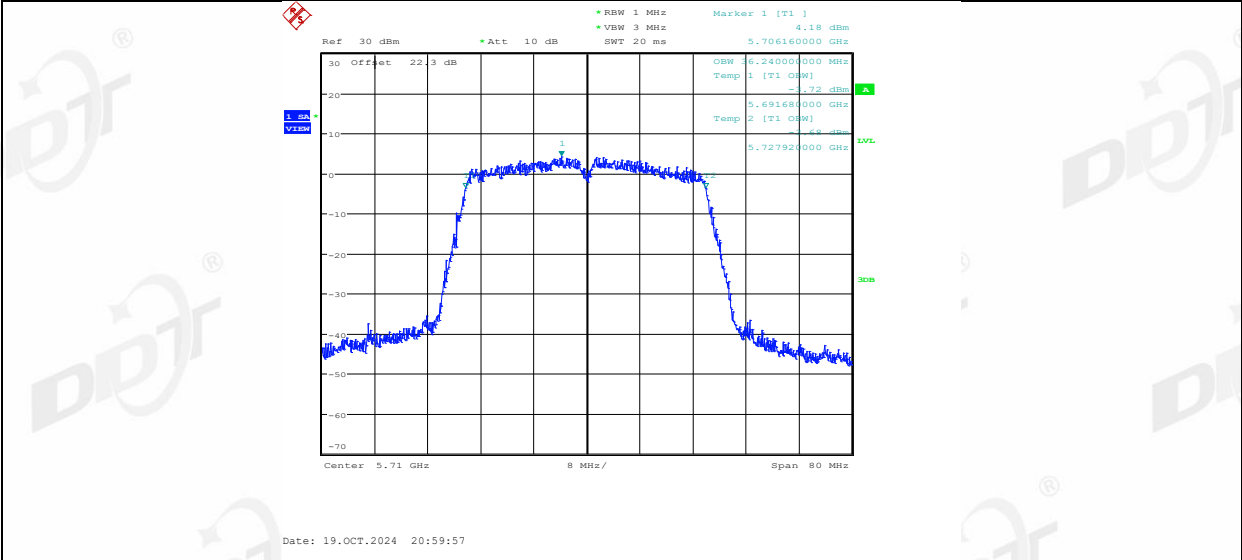
11AC40MIMO\_Ant1\_5670



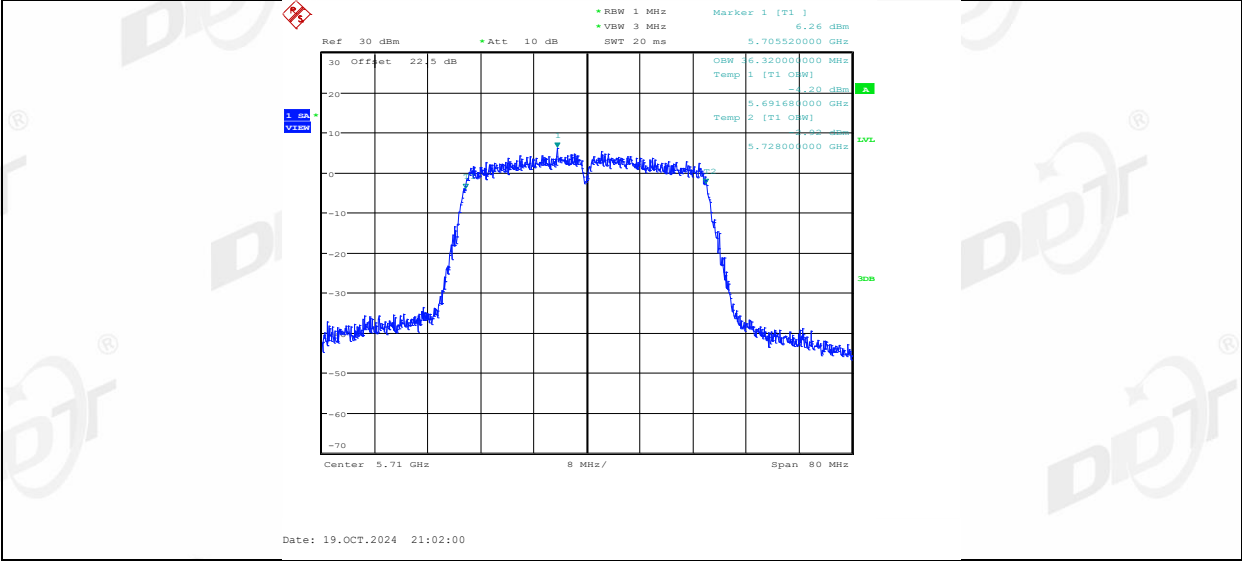
11AC40MIMO\_Ant2\_5670



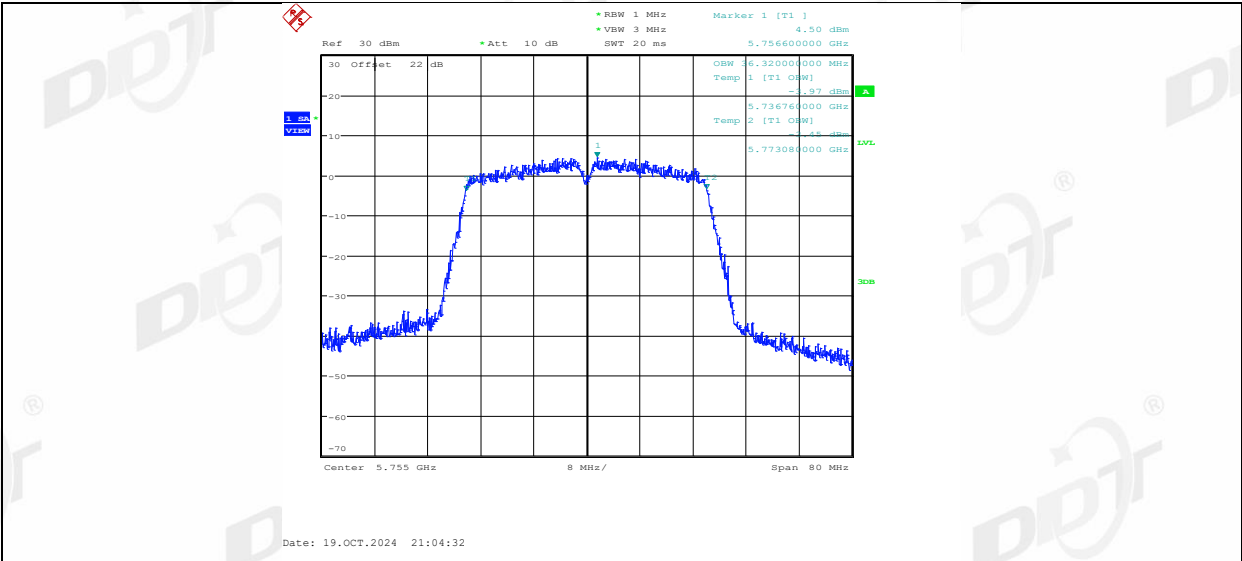
11AC40MIMO\_Ant1\_5710



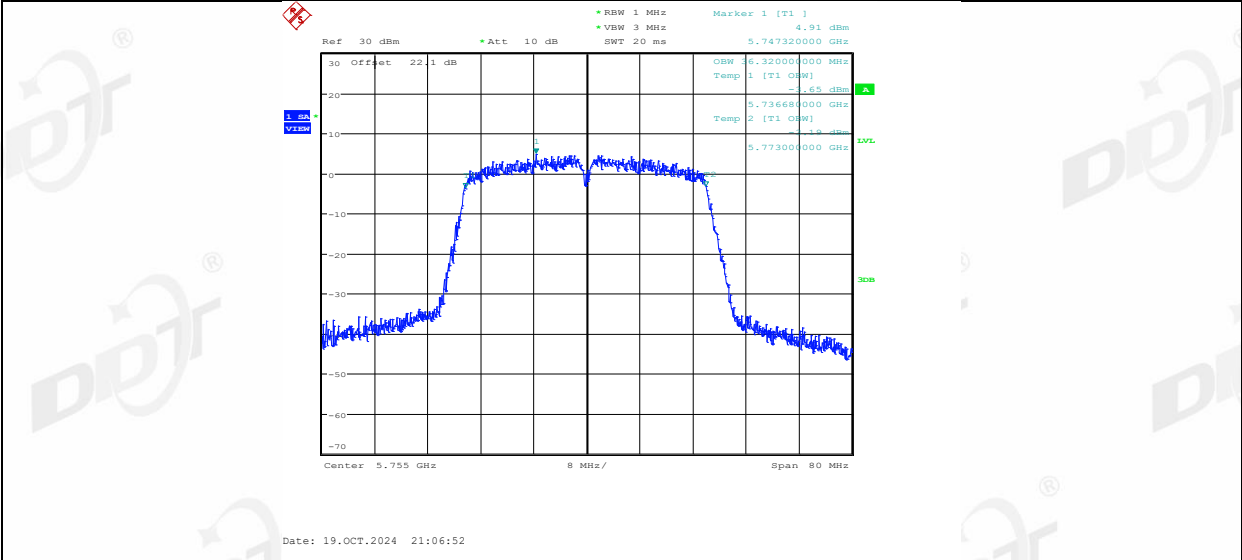
11AC40MIMO\_Ant2\_5710



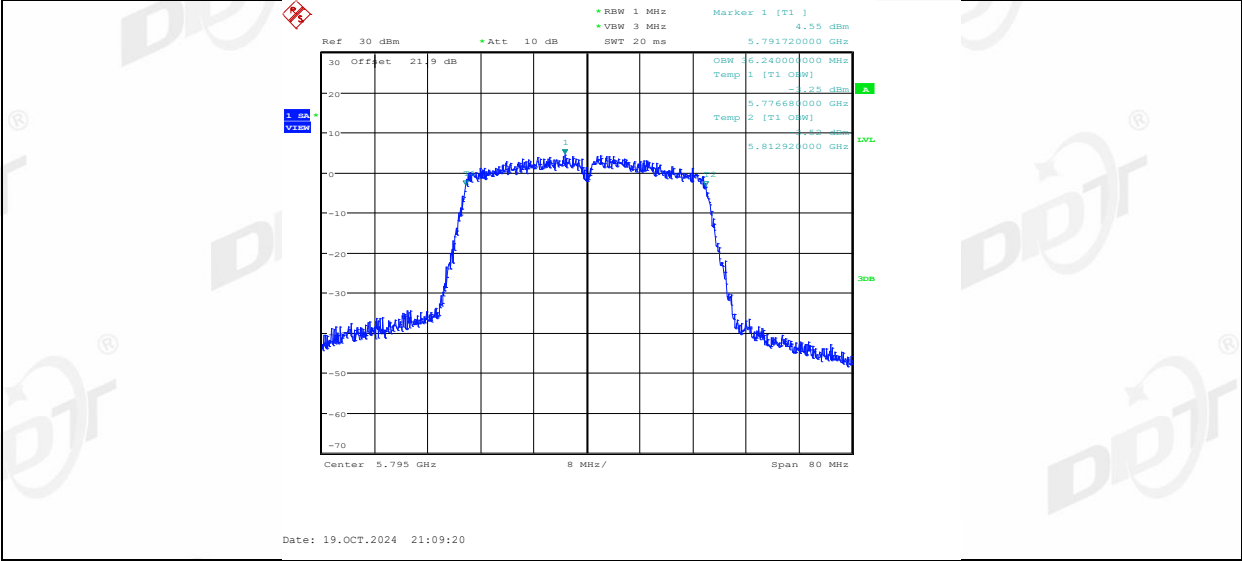
11AC40MIMO\_Ant1\_5755



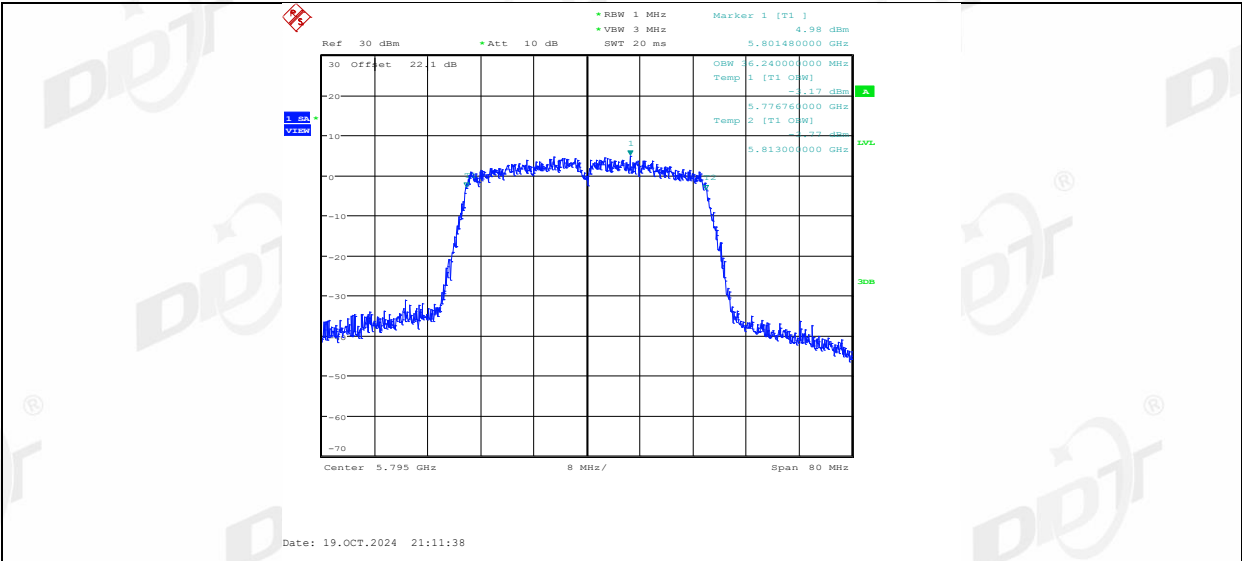
11AC40MIMO\_Ant2\_5755



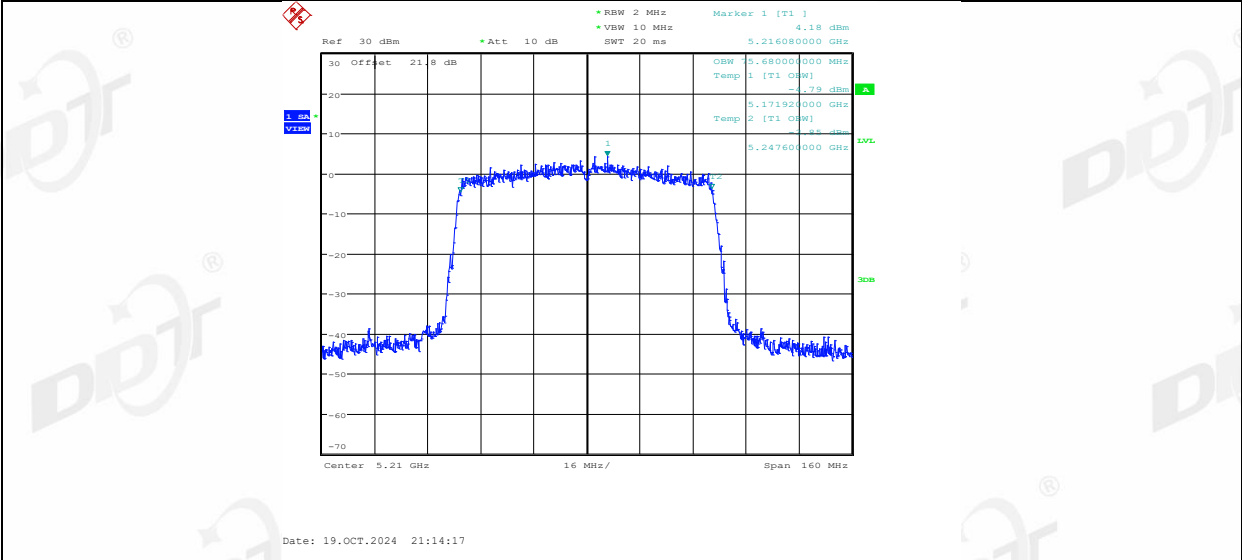
11AC40MIMO\_Ant1\_5795



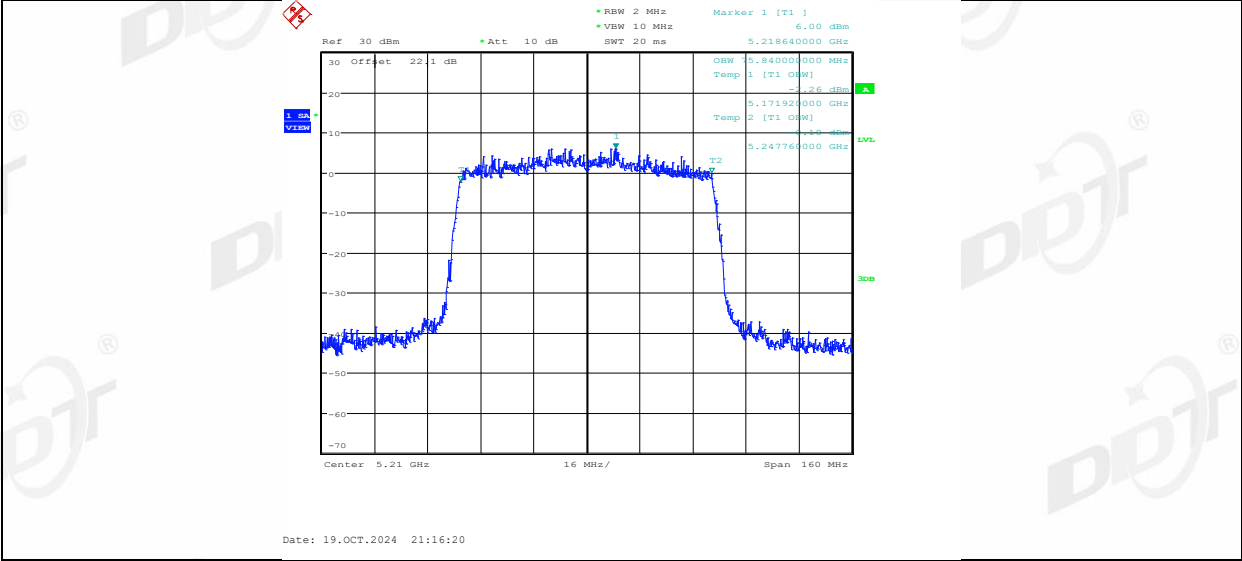
11AC40MIMO\_Ant2\_5795



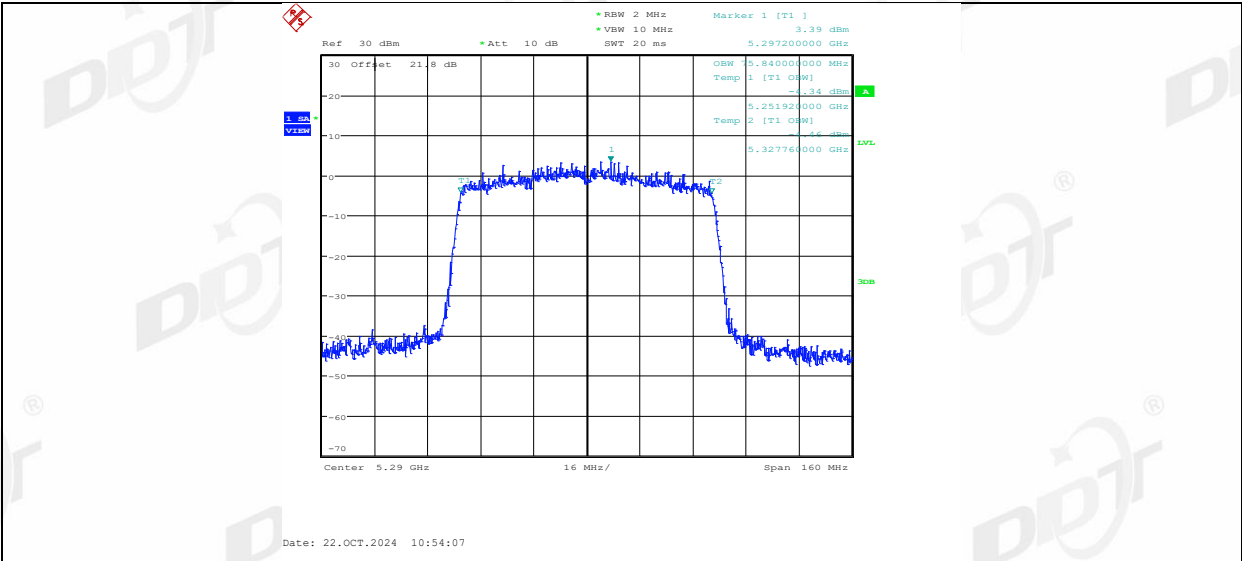
11AC80MIMO\_Ant1\_5210



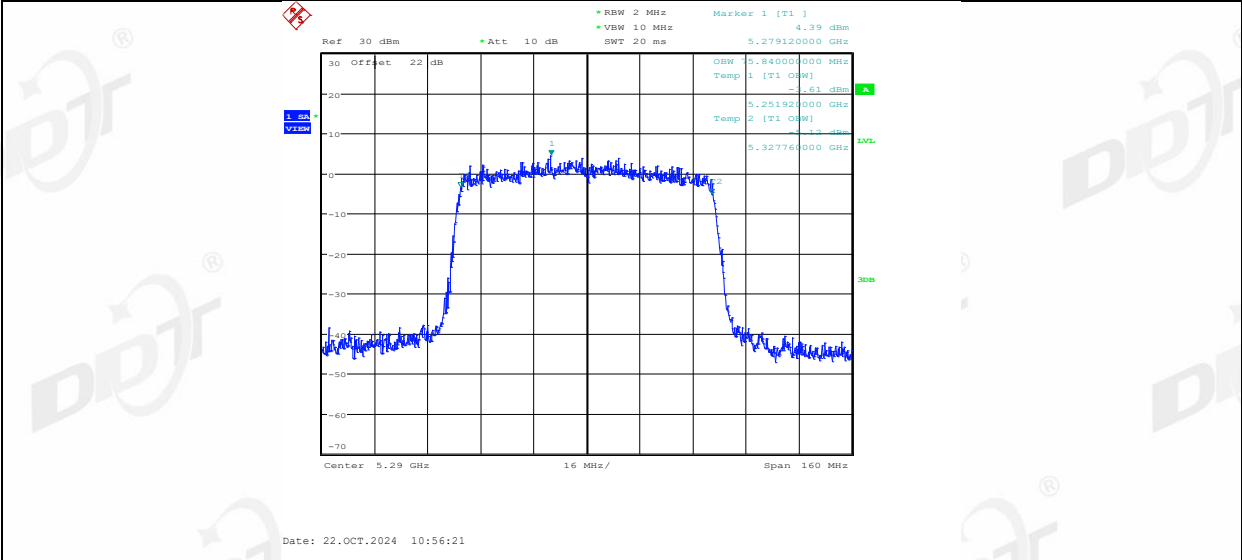
11AC80MIMO\_Ant2\_5210



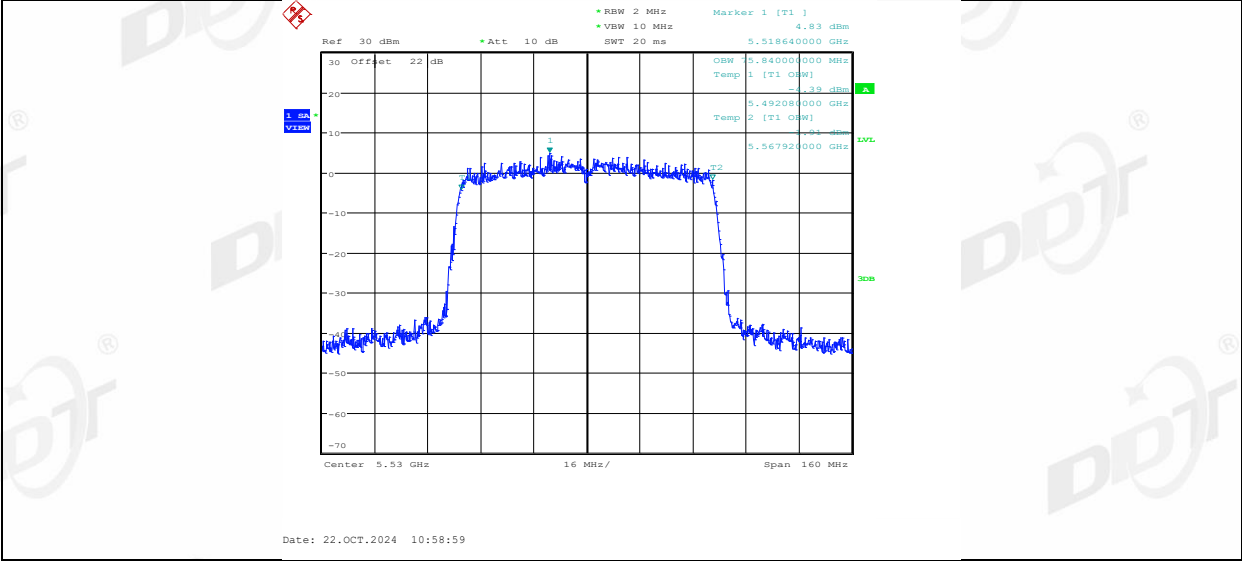
11AC80MIMO\_Ant1\_5290



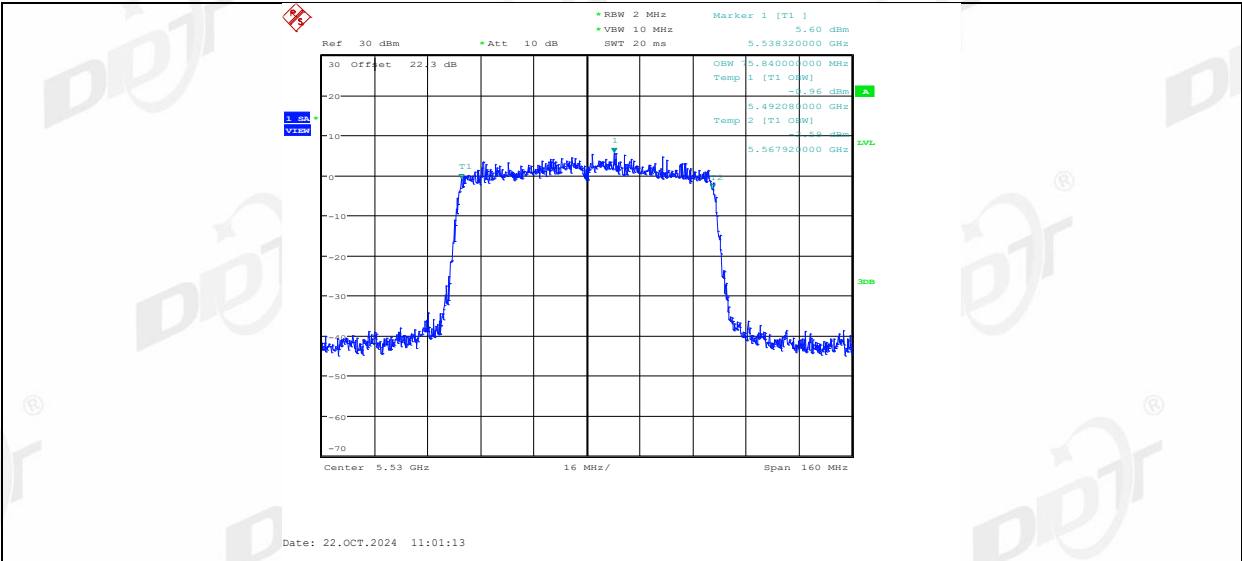
11AC80MIMO\_Ant2\_5290



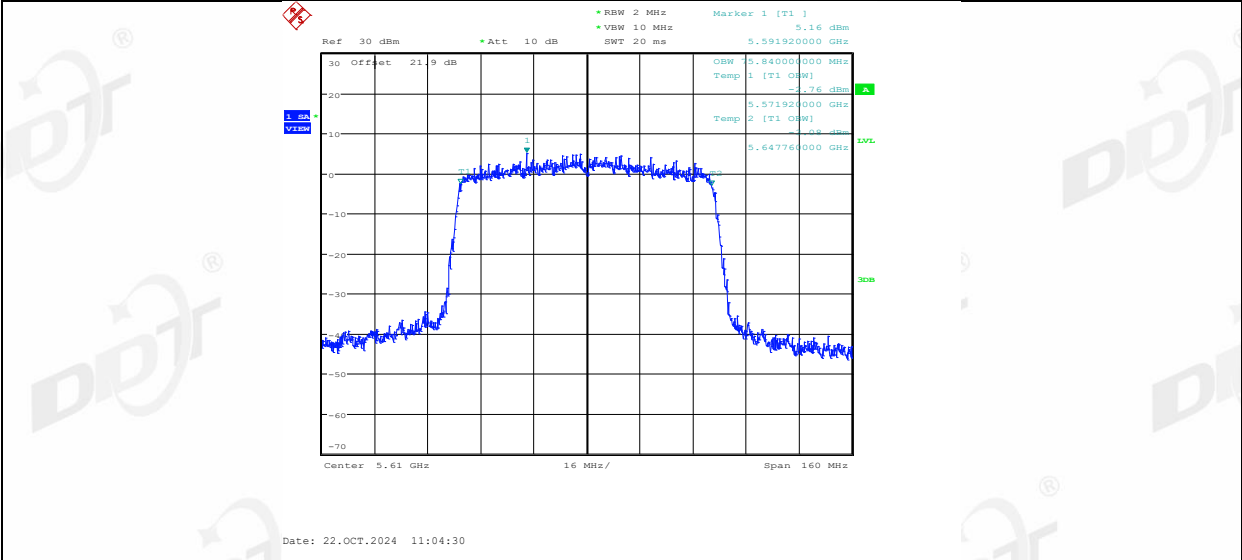
11AC80MIMO\_Ant1\_5530



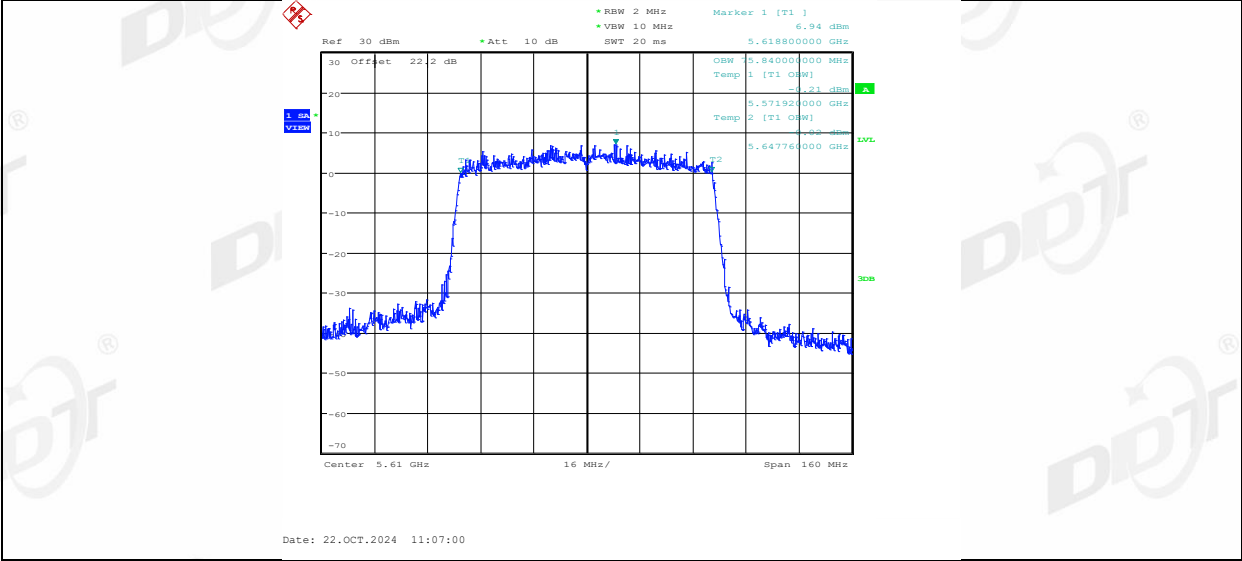
11AC80MIMO\_Ant2\_5530



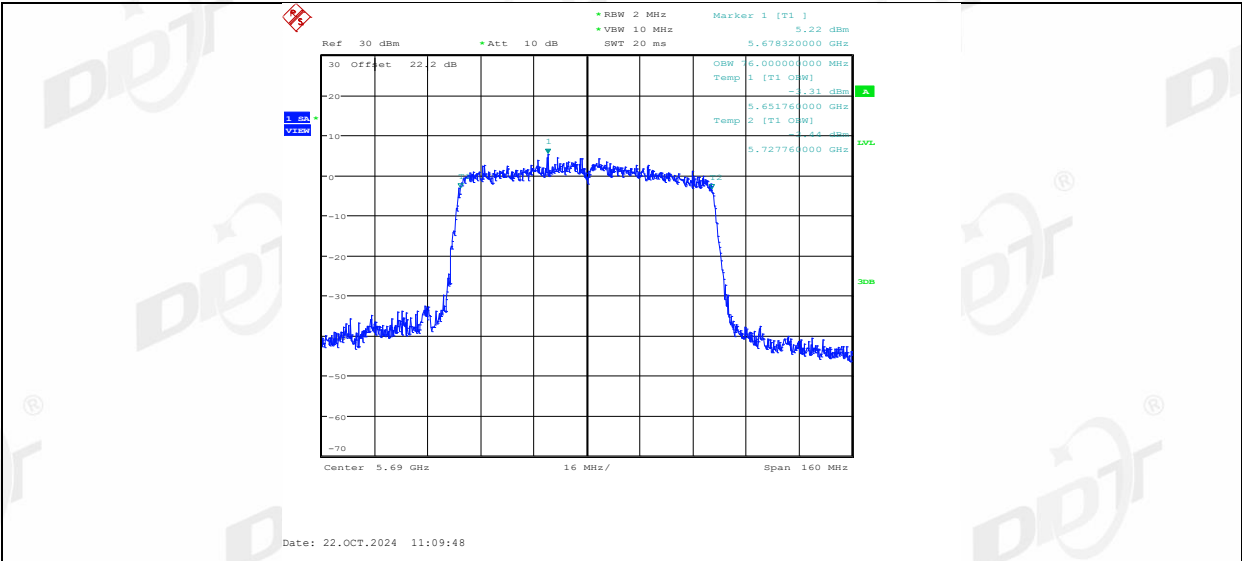
11AC80MIMO\_Ant1\_5610



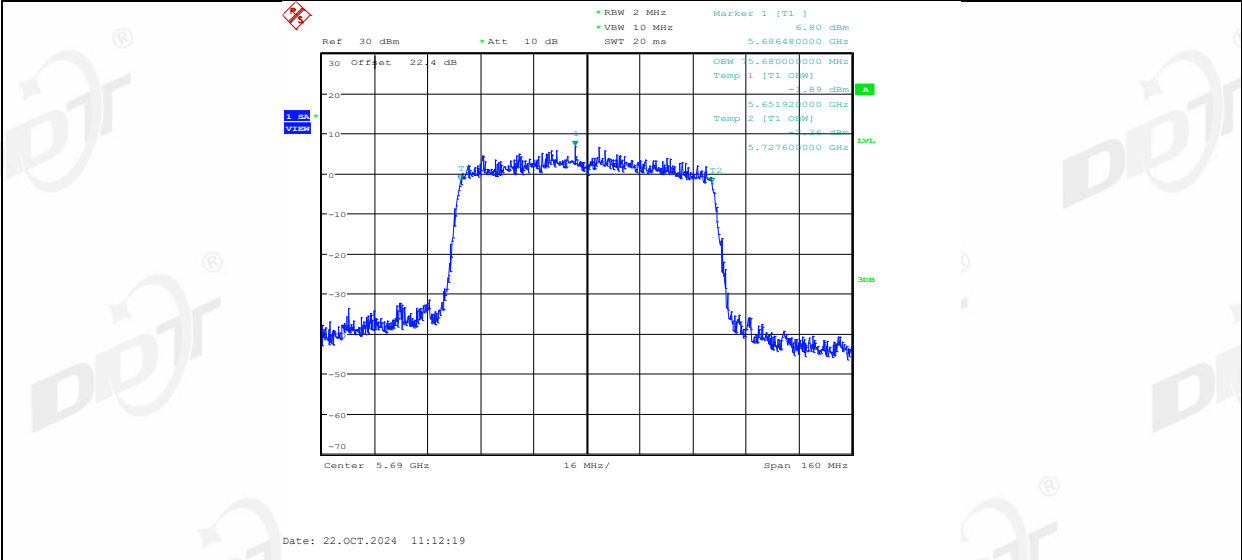
11AC80MIMO\_Ant2\_5610



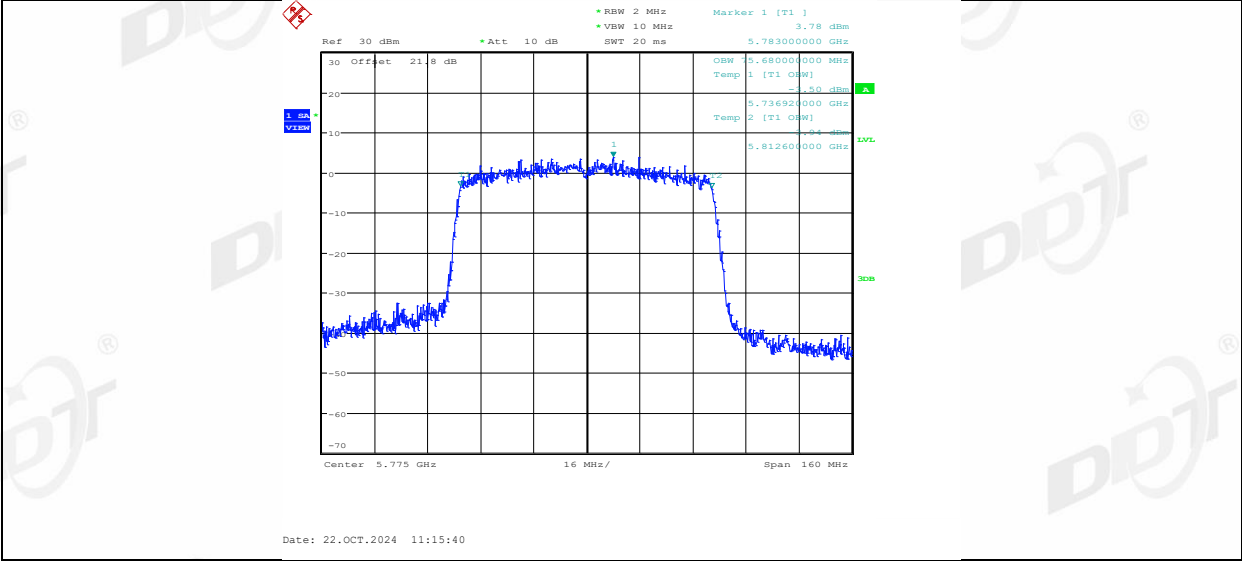
11AC80MIMO\_Ant1\_5690



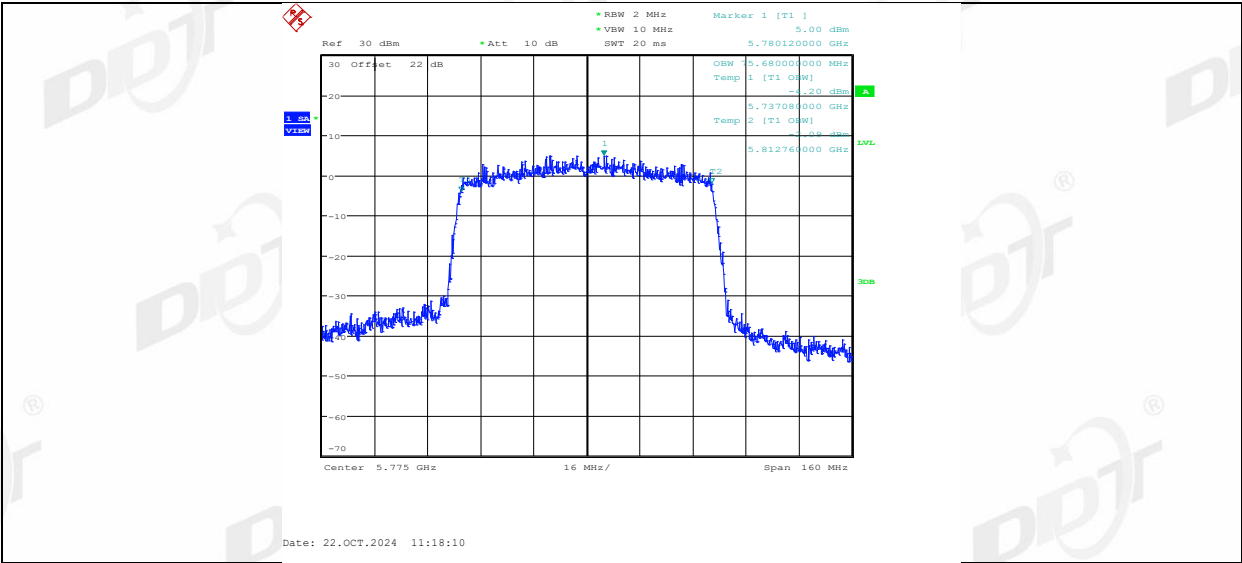
11AC80MIMO\_Ant2\_5690



11AC80MIMO\_Ant1\_5775

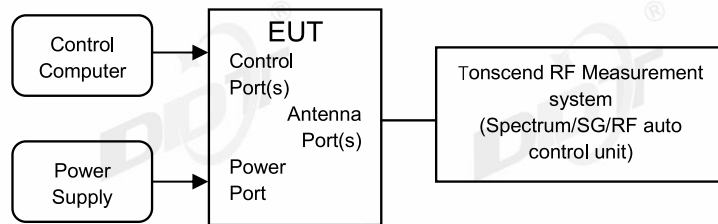


11AC80MIMO\_Ant2\_5775



## 7. Duty Cycle

### 7.1. Block diagram of test setup



### 7.2. Limit

Just for Report.

### 7.3. Test procedure

- (1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, The cable loss and attenuator loss have been put into spectrum analyzer as amplitude offset.  
set the Spectrum Analyzer as below:  
Centre Frequency: The centre frequency of the middle hopping channel.  
Resolution BW: 10 MHz.  
Video BW: 10 MHz.  
Span: Zero span.  
Detector: Peak.  
Trace Mode: Clear Write.  
Sweep: Video Trigger
- (2) When the trace is complete, measure the sending time of 1 burst and the duty cycle of 1 burst cycle.
- (3) Calculate dwell time follow below formula:  
Duty cycle= Pulse's on time / Burst cycle

7.4. Test result

|                    |               |                |                                  |
|--------------------|---------------|----------------|----------------------------------|
| Test Engineer:     | Haofeng       | Test Site:     | RF Measurement System 1#         |
| Ambient Condition: | 24.6℃,46.8%RH | Test Date:     | 2024.10.19/2024.12.11~2024.12.13 |
| Test Power Supply: | AC120V/60Hz   | Sample Number: | S24091913-002                    |

| Test Mode | Antenna | Frequency[MHz] | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] |
|-----------|---------|----------------|----------------------------|--------------------------|----------------|
| 11A       | Ant1    | 5180           | 1.40                       | 1.46                     | 95.89          |
|           | Ant2    | 5180           | 1.40                       | 1.47                     | 95.24          |
|           | Ant1    | 5200           | 1.40                       | 1.46                     | 95.89          |
|           | Ant2    | 5200           | 1.40                       | 1.46                     | 95.89          |
|           | Ant1    | 5240           | 1.40                       | 1.46                     | 95.89          |
|           | Ant2    | 5240           | 1.40                       | 1.47                     | 95.24          |
|           | Ant1    | 5260           | 1.40                       | 1.47                     | 95.24          |
|           | Ant2    | 5260           | 1.40                       | 1.46                     | 95.89          |
|           | Ant1    | 5280           | 1.40                       | 1.47                     | 95.24          |
|           | Ant2    | 5280           | 1.40                       | 1.47                     | 95.24          |
|           | Ant1    | 5320           | 1.40                       | 1.46                     | 95.89          |
|           | Ant2    | 5320           | 1.40                       | 1.46                     | 95.89          |
|           | Ant1    | 5500           | 1.40                       | 1.47                     | 95.24          |
|           | Ant2    | 5500           | 1.40                       | 1.47                     | 95.24          |
|           | Ant1    | 5580           | 1.40                       | 1.47                     | 95.24          |
|           | Ant2    | 5580           | 1.40                       | 1.47                     | 95.24          |
|           | Ant1    | 5700           | 1.40                       | 1.46                     | 95.89          |
|           | Ant2    | 5700           | 1.41                       | 1.47                     | 95.92          |
|           | Ant1    | 5720           | 1.41                       | 1.47                     | 95.92          |
|           | Ant2    | 5720           | 1.40                       | 1.46                     | 95.89          |
|           | Ant1    | 5745           | 1.40                       | 1.47                     | 95.24          |
|           | Ant2    | 5745           | 1.41                       | 1.47                     | 95.92          |
|           | Ant1    | 5785           | 1.41                       | 1.47                     | 95.92          |
|           | Ant2    | 5785           | 1.41                       | 1.47                     | 95.92          |
|           | Ant1    | 5825           | 1.40                       | 1.46                     | 95.89          |
|           | Ant2    | 5825           | 1.40                       | 1.47                     | 95.24          |
| 11N20MIMO | Ant1    | 5180           | 0.68                       | 0.75                     | 90.67          |
|           | Ant2    | 5180           | 0.68                       | 0.75                     | 90.67          |
|           | Ant1    | 5200           | 0.68                       | 0.75                     | 90.67          |
|           | Ant2    | 5200           | 0.68                       | 0.75                     | 90.67          |
|           | Ant1    | 5240           | 0.68                       | 0.74                     | 91.89          |
|           | Ant2    | 5240           | 0.68                       | 0.75                     | 90.67          |
|           | Ant1    | 5260           | 0.68                       | 0.75                     | 90.67          |
|           | Ant2    | 5260           | 0.68                       | 0.74                     | 91.89          |
|           | Ant1    | 5280           | 0.68                       | 0.75                     | 90.67          |
|           | Ant2    | 5280           | 0.68                       | 0.74                     | 91.89          |
|           | Ant1    | 5320           | 0.68                       | 0.75                     | 90.67          |
|           | Ant2    | 5320           | 0.68                       | 0.75                     | 90.67          |
|           | Ant1    | 5500           | 0.68                       | 0.74                     | 91.89          |
|           | Ant2    | 5500           | 0.68                       | 0.74                     | 91.89          |
|           | Ant1    | 5580           | 0.68                       | 0.75                     | 90.67          |
|           | Ant2    | 5580           | 0.68                       | 0.74                     | 91.89          |
|           | Ant1    | 5700           | 0.68                       | 0.75                     | 90.67          |
|           | Ant2    | 5700           | 0.68                       | 0.75                     | 90.67          |
|           | Ant1    | 5720           | 0.68                       | 0.74                     | 91.89          |
|           | Ant2    | 5720           | 0.68                       | 0.75                     | 90.67          |
|           | Ant1    | 5745           | 0.68                       | 0.74                     | 91.89          |
|           | Ant2    | 5745           | 0.68                       | 0.75                     | 90.67          |
|           | Ant1    | 5785           | 0.68                       | 0.75                     | 90.67          |
|           | Ant2    | 5785           | 0.68                       | 0.75                     | 90.67          |
|           | Ant1    | 5825           | 0.68                       | 0.75                     | 90.67          |
|           | Ant2    | 5825           | 0.68                       | 0.75                     | 90.67          |
| 11N40MIMO | Ant1    | 5190           | 0.35                       | 0.41                     | 85.37          |
|           | Ant2    | 5190           | 0.35                       | 0.41                     | 85.37          |
|           | Ant1    | 5230           | 0.35                       | 0.41                     | 85.37          |

|            |      |      |      |      |       |
|------------|------|------|------|------|-------|
|            | Ant2 | 5230 | 0.35 | 0.41 | 85.37 |
|            | Ant1 | 5270 | 0.35 | 0.41 | 85.37 |
|            | Ant2 | 5270 | 0.35 | 0.41 | 85.37 |
|            | Ant1 | 5310 | 0.35 | 0.42 | 83.33 |
|            | Ant2 | 5310 | 0.35 | 0.42 | 83.33 |
|            | Ant1 | 5510 | 0.35 | 0.42 | 83.33 |
|            | Ant2 | 5510 | 0.35 | 0.42 | 83.33 |
|            | Ant1 | 5550 | 0.35 | 0.42 | 83.33 |
|            | Ant2 | 5550 | 0.35 | 0.42 | 83.33 |
|            | Ant1 | 5670 | 0.35 | 0.41 | 85.37 |
|            | Ant2 | 5670 | 0.35 | 0.42 | 83.33 |
|            | Ant1 | 5710 | 0.35 | 0.41 | 85.37 |
|            | Ant2 | 5710 | 0.35 | 0.41 | 85.37 |
|            | Ant1 | 5755 | 0.35 | 0.42 | 83.33 |
|            | Ant2 | 5755 | 0.35 | 0.41 | 85.37 |
|            | Ant1 | 5795 | 0.35 | 0.41 | 85.37 |
|            | Ant2 | 5795 | 0.35 | 0.41 | 85.37 |
| 11AC20MIMO | Ant1 | 5180 | 0.69 | 0.75 | 92.00 |
|            | Ant2 | 5180 | 0.69 | 0.75 | 92.00 |
|            | Ant1 | 5200 | 0.68 | 0.75 | 90.67 |
|            | Ant2 | 5200 | 0.68 | 0.75 | 90.67 |
|            | Ant1 | 5240 | 0.68 | 0.75 | 90.67 |
|            | Ant2 | 5240 | 0.69 | 0.75 | 92.00 |
|            | Ant1 | 5260 | 0.69 | 0.75 | 92.00 |
|            | Ant2 | 5260 | 0.68 | 0.75 | 90.67 |
|            | Ant1 | 5280 | 0.69 | 0.75 | 92.00 |
|            | Ant2 | 5280 | 0.68 | 0.75 | 90.67 |
|            | Ant1 | 5320 | 0.68 | 0.74 | 91.89 |
|            | Ant2 | 5320 | 0.68 | 0.75 | 90.67 |
|            | Ant1 | 5500 | 0.68 | 0.75 | 90.67 |
|            | Ant2 | 5500 | 0.68 | 0.75 | 90.67 |
|            | Ant1 | 5580 | 0.69 | 0.75 | 92.00 |
|            | Ant2 | 5580 | 0.68 | 0.75 | 90.67 |
|            | Ant1 | 5700 | 0.68 | 0.75 | 90.67 |
|            | Ant2 | 5700 | 0.68 | 0.75 | 90.67 |
|            | Ant1 | 5720 | 0.69 | 0.75 | 92.00 |
|            | Ant2 | 5720 | 0.69 | 0.75 | 92.00 |
|            | Ant1 | 5745 | 0.69 | 0.75 | 92.00 |
|            | Ant2 | 5745 | 0.69 | 0.75 | 92.00 |
|            | Ant1 | 5785 | 0.68 | 0.75 | 90.67 |
|            | Ant2 | 5785 | 0.69 | 0.75 | 92.00 |
|            | Ant1 | 5825 | 0.68 | 0.75 | 90.67 |
|            | Ant2 | 5825 | 0.69 | 0.75 | 92.00 |
| 11AC40MIMO | Ant1 | 5190 | 0.35 | 0.41 | 85.37 |
|            | Ant2 | 5190 | 0.35 | 0.41 | 85.37 |
|            | Ant1 | 5230 | 0.35 | 0.41 | 85.37 |
|            | Ant2 | 5230 | 0.35 | 0.42 | 83.33 |
|            | Ant1 | 5270 | 0.35 | 0.42 | 83.33 |
|            | Ant2 | 5270 | 0.35 | 0.41 | 85.37 |
|            | Ant1 | 5310 | 0.35 | 0.42 | 83.33 |
|            | Ant2 | 5310 | 0.35 | 0.41 | 85.37 |
|            | Ant1 | 5510 | 0.35 | 0.41 | 85.37 |
|            | Ant2 | 5510 | 0.35 | 0.41 | 85.37 |
|            | Ant1 | 5550 | 0.35 | 0.41 | 85.37 |
|            | Ant2 | 5550 | 0.35 | 0.41 | 85.37 |
|            | Ant1 | 5670 | 0.35 | 0.41 | 85.37 |
|            | Ant2 | 5670 | 0.35 | 0.42 | 83.33 |
|            | Ant1 | 5710 | 0.35 | 0.41 | 85.37 |
|            | Ant2 | 5710 | 0.35 | 0.41 | 85.37 |
|            | Ant1 | 5755 | 0.35 | 0.41 | 85.37 |
|            | Ant2 | 5755 | 0.35 | 0.42 | 83.33 |
|            | Ant1 | 5795 | 0.35 | 0.41 | 85.37 |
|            | Ant2 | 5795 | 0.35 | 0.41 | 85.37 |
| 11AC80MIMO | Ant1 | 5210 | 0.19 | 0.25 | 76.00 |

|  |      |      |      |      |       |
|--|------|------|------|------|-------|
|  | Ant2 | 5210 | 0.19 | 0.25 | 76.00 |
|  | Ant1 | 5290 | 0.19 | 0.25 | 76.00 |
|  | Ant2 | 5290 | 0.19 | 0.25 | 76.00 |
|  | Ant1 | 5530 | 0.19 | 0.25 | 76.00 |
|  | Ant2 | 5530 | 0.19 | 0.25 | 76.00 |
|  | Ant1 | 5610 | 0.19 | 0.25 | 76.00 |
|  | Ant2 | 5610 | 0.18 | 0.24 | 75.00 |
|  | Ant1 | 5690 | 0.18 | 0.24 | 75.00 |
|  | Ant2 | 5690 | 0.18 | 0.24 | 75.00 |
|  | Ant1 | 5775 | 0.18 | 0.24 | 75.00 |
|  | Ant2 | 5775 | 0.18 | 0.24 | 75.00 |

11A Ant1 5180

RBW 10 MHz Delta 2 [T1 ] 0.19 dB  
\*VSW 10 MHz  
SWT 5 ms 1.460000 ms

Ref 30 dBm \*Att 10 dB

30 Offset 21.8 dB

Marker 1 [T1 ] 11.21 dBm  
350.000000 us  
Delta 1 [T1 ]

1 SWR  
-0.3999

Center 5.18 GHz 500 us/

Date: 19.OCT.2024 18:03:10

11A Ant2 5180

RBW 10 MHz Delta 2 [T1 ] -0.23 dB  
\*VSW 10 MHz  
SWT 5 ms 1.470000 ms

Ref 30 dBm \*Att 10 dB

30 Offset 22 dB

Marker 1 [T1 ] 14.31 dBm  
120.000000 us  
Delta 1 [T1 ]

1 SWR  
-0.3999

Center 5.18 GHz 500 us/

Date: 19.OCT.2024 18:19:23

11A Ant1 5200

RBW 10 MHz Delta 2 [T1 ] 0.31 dB  
\*VSW 10 MHz  
SWT 5 ms 1.460000 ms

Ref 30 dBm \*Att 10 dB

30 Offset 21.8 dB

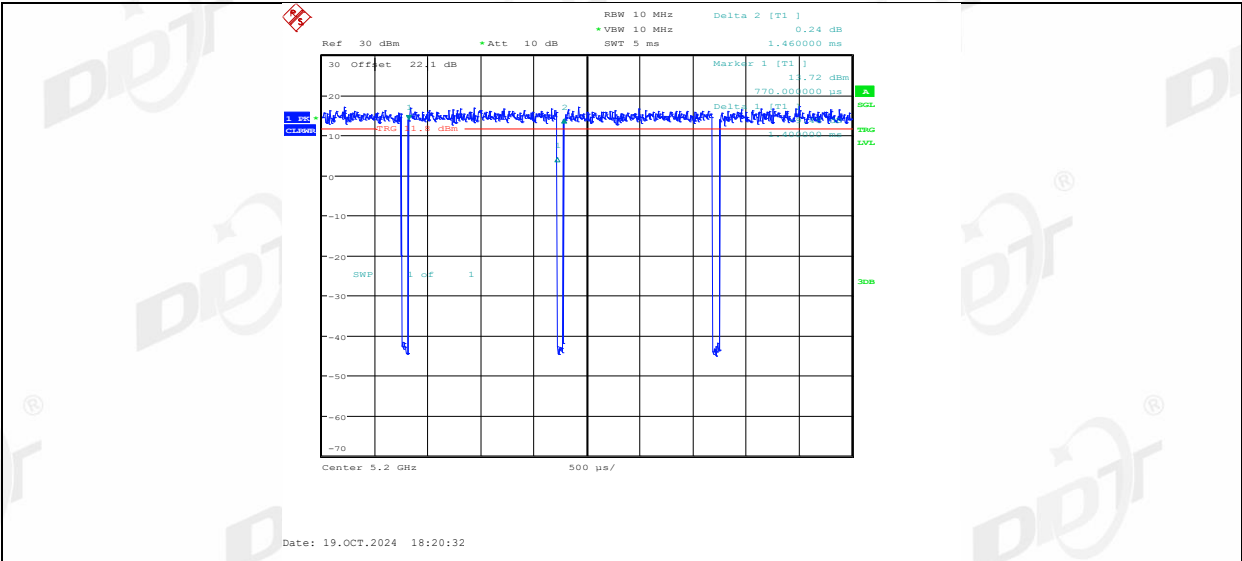
Marker 1 [T1 ] 12.12 dBm  
780.000000 us  
Delta 1 [T1 ]

1 SWR  
-0.3999

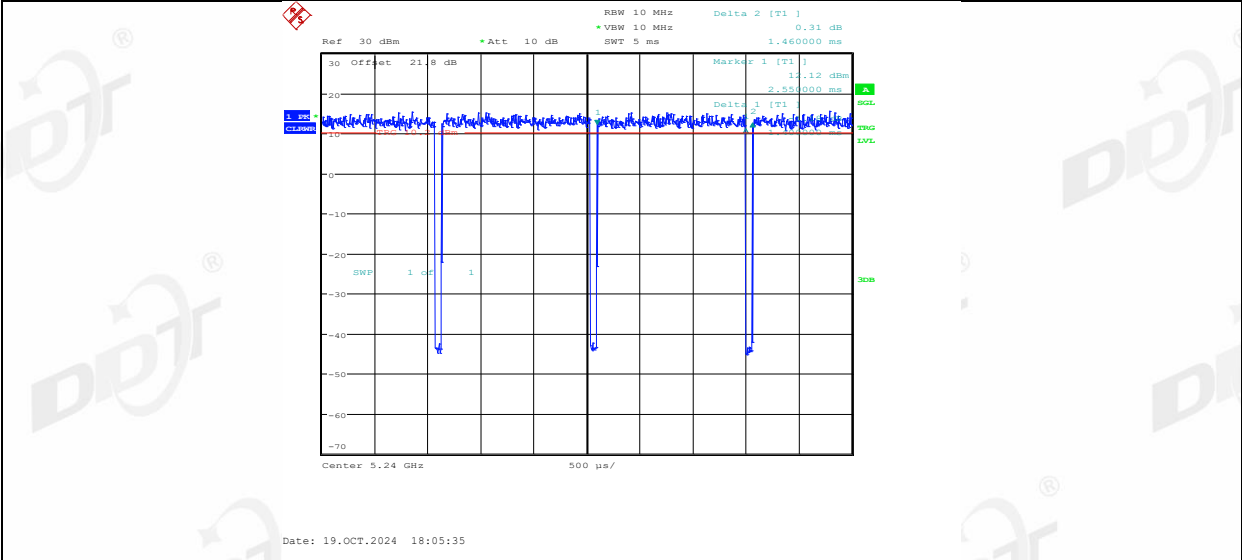
Center 5.2 GHz 500 us/

Date: 19.OCT.2024 18:04:26

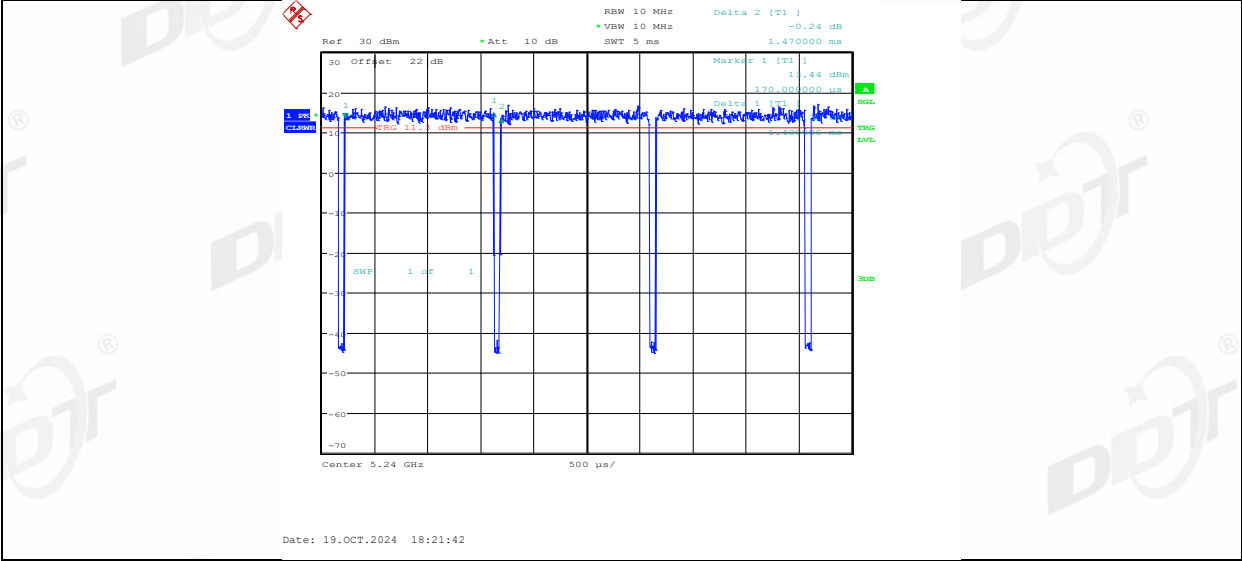
11A Ant2 5200



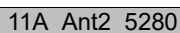
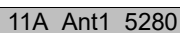
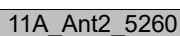
11A\_Ant1\_5240

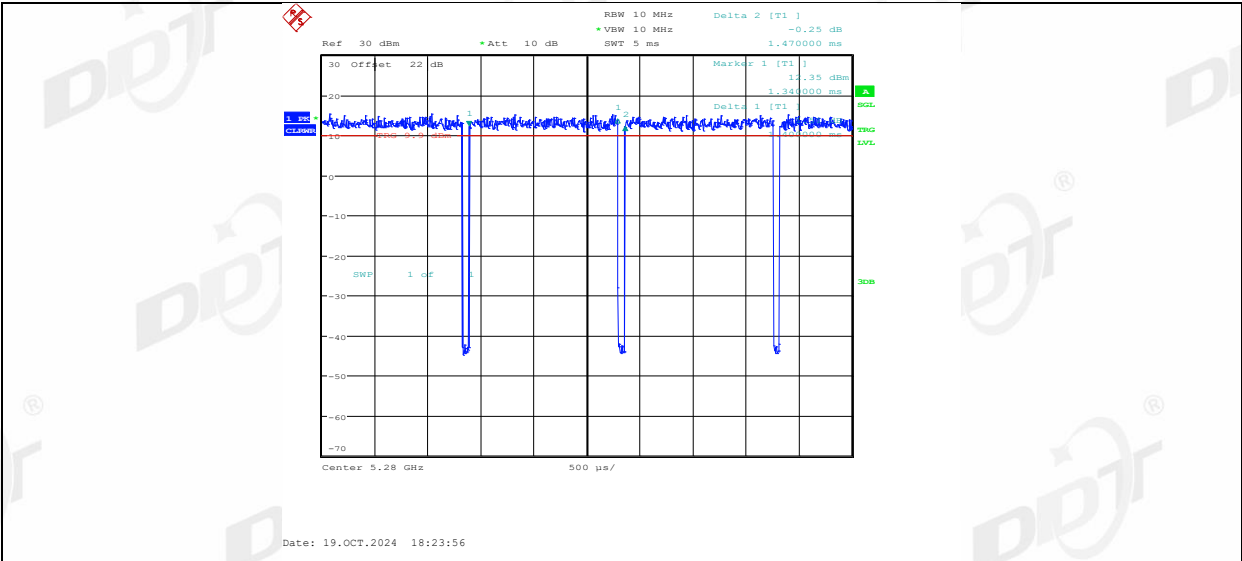


11A\_Ant2\_5240

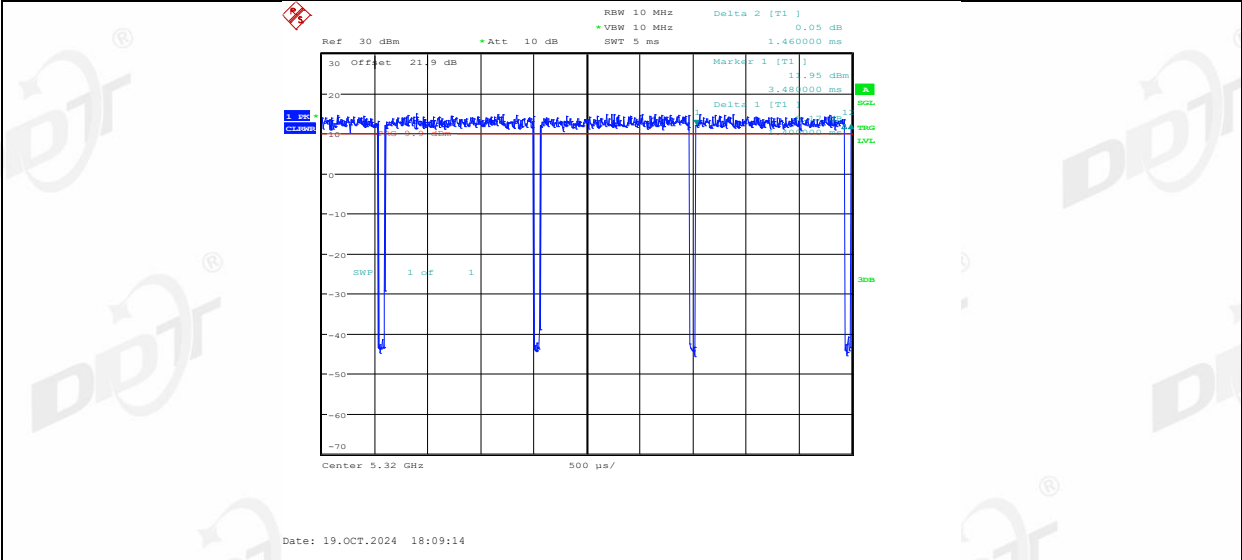


11A\_Ant1\_5260

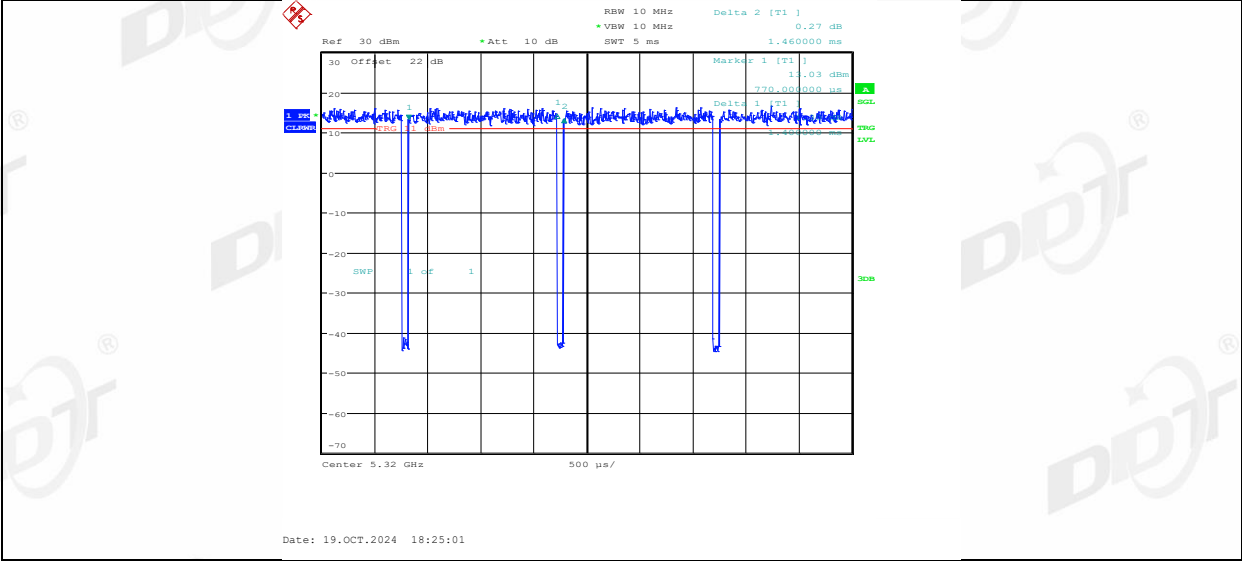




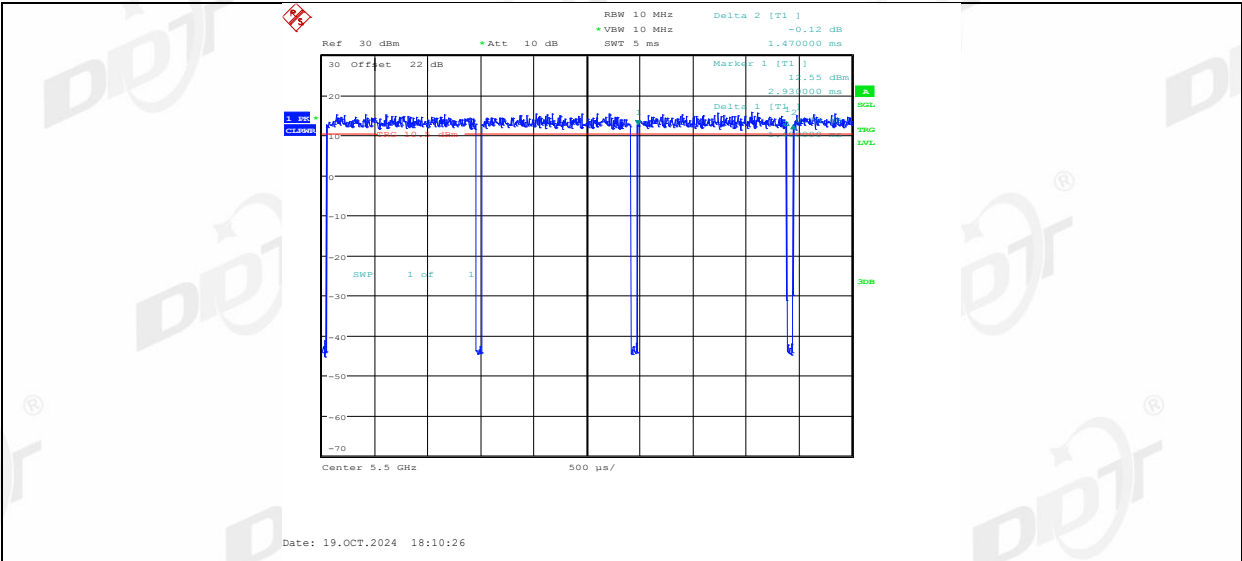
11A\_Ant1\_5320



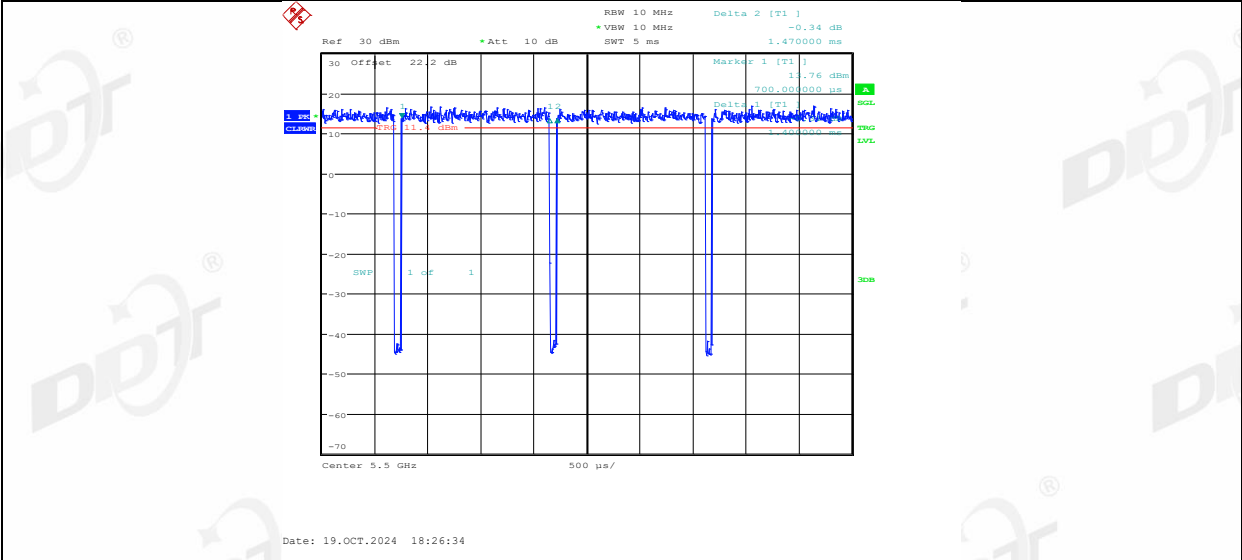
11A\_Ant2\_5320



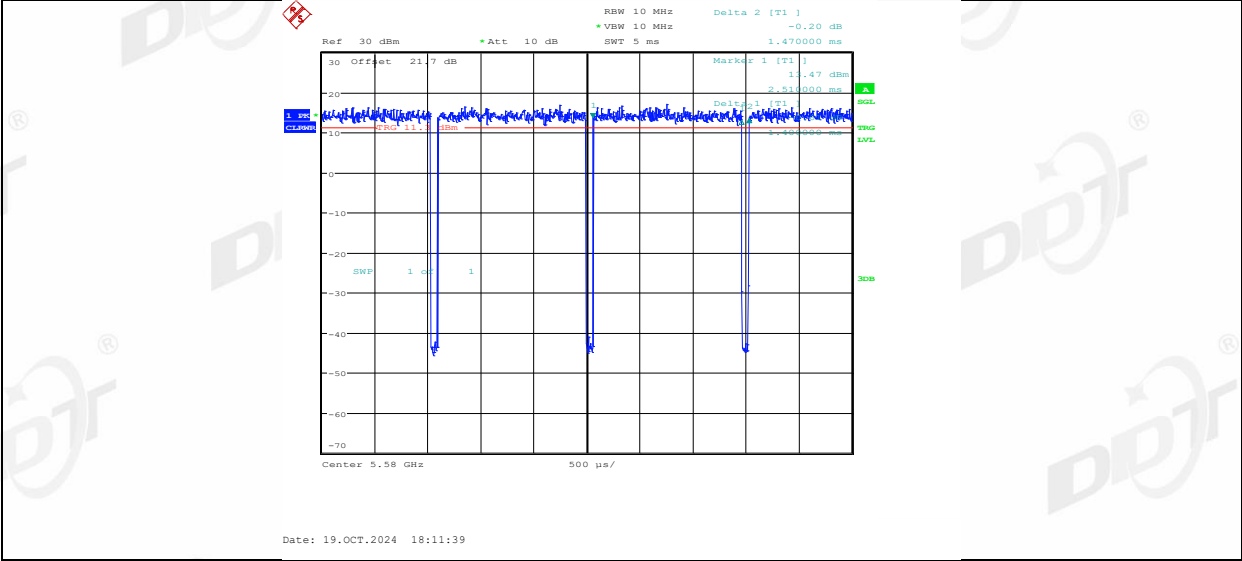
11A\_Ant1\_5500



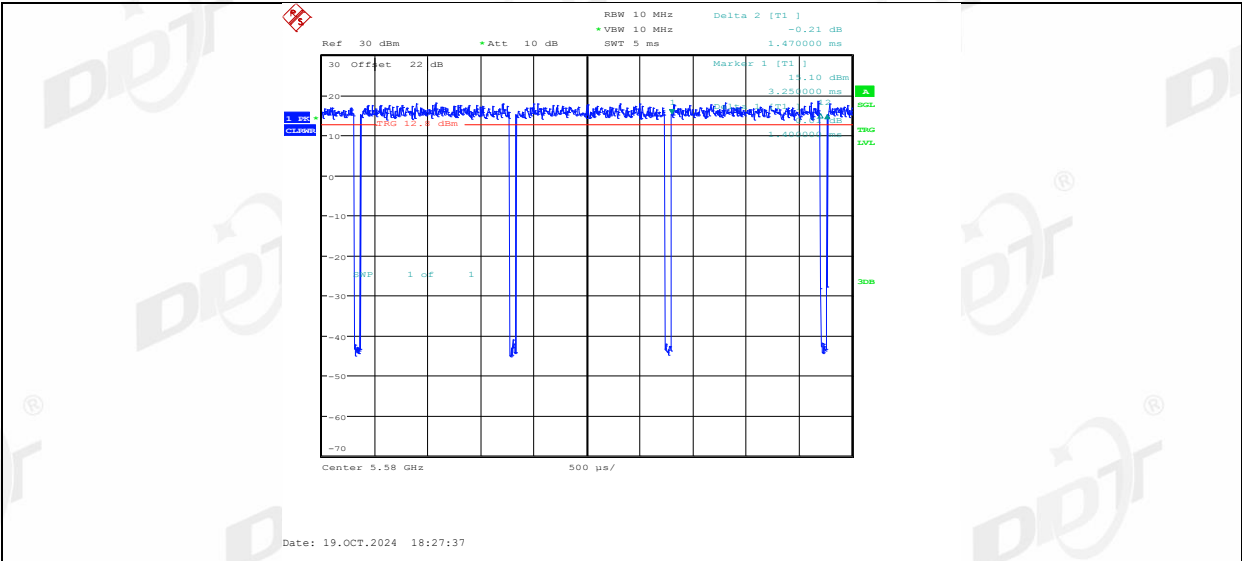
11A\_Ant2\_5500



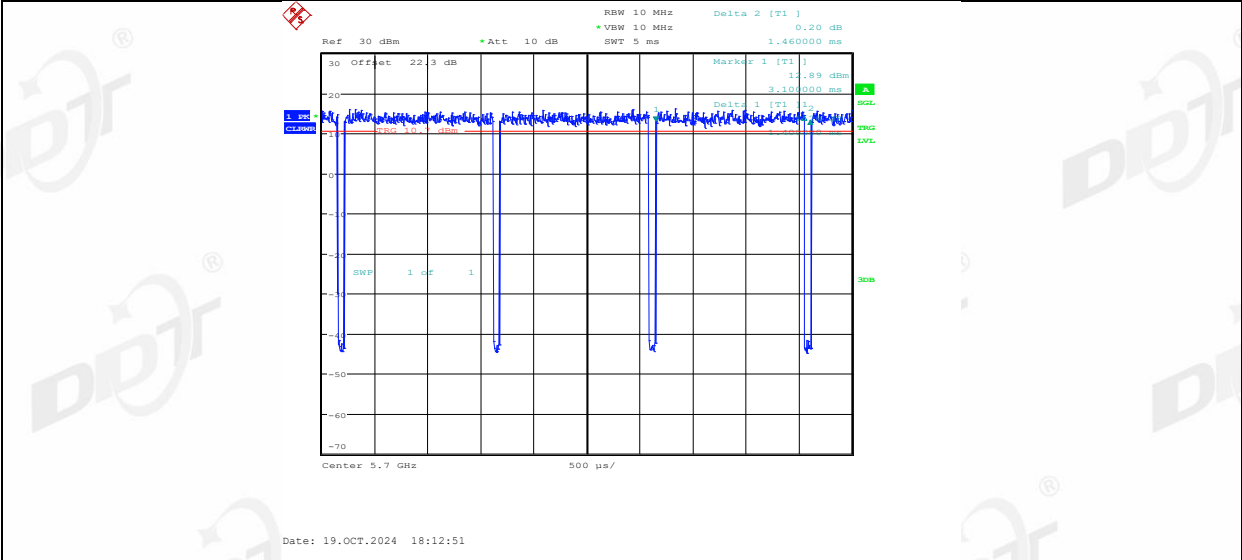
11A\_Ant1\_5580



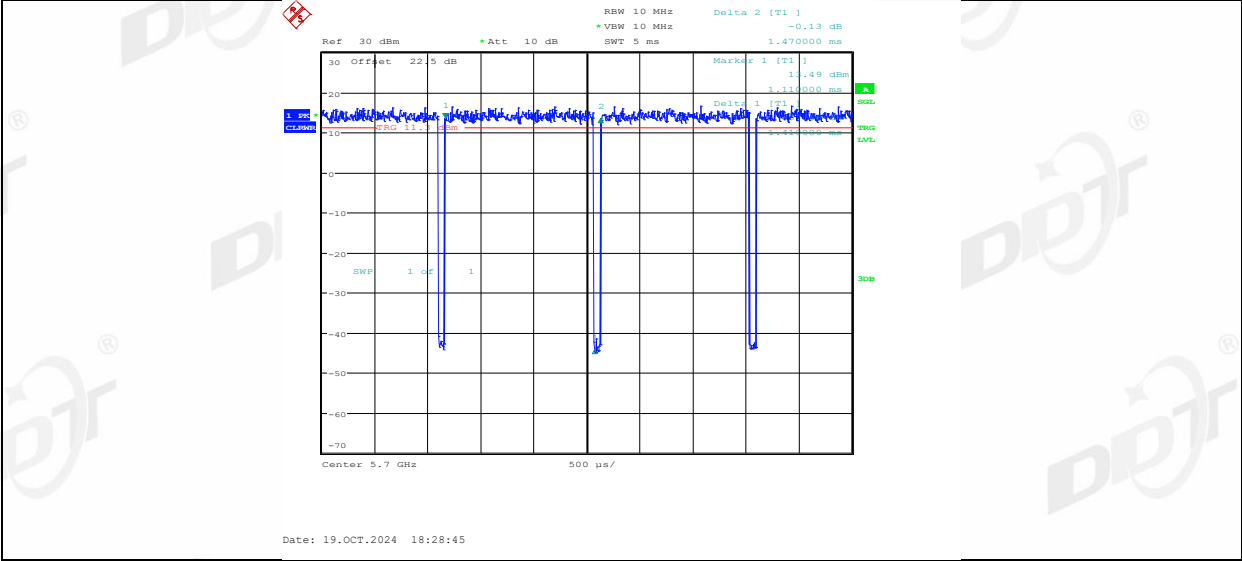
11A\_Ant2\_5580



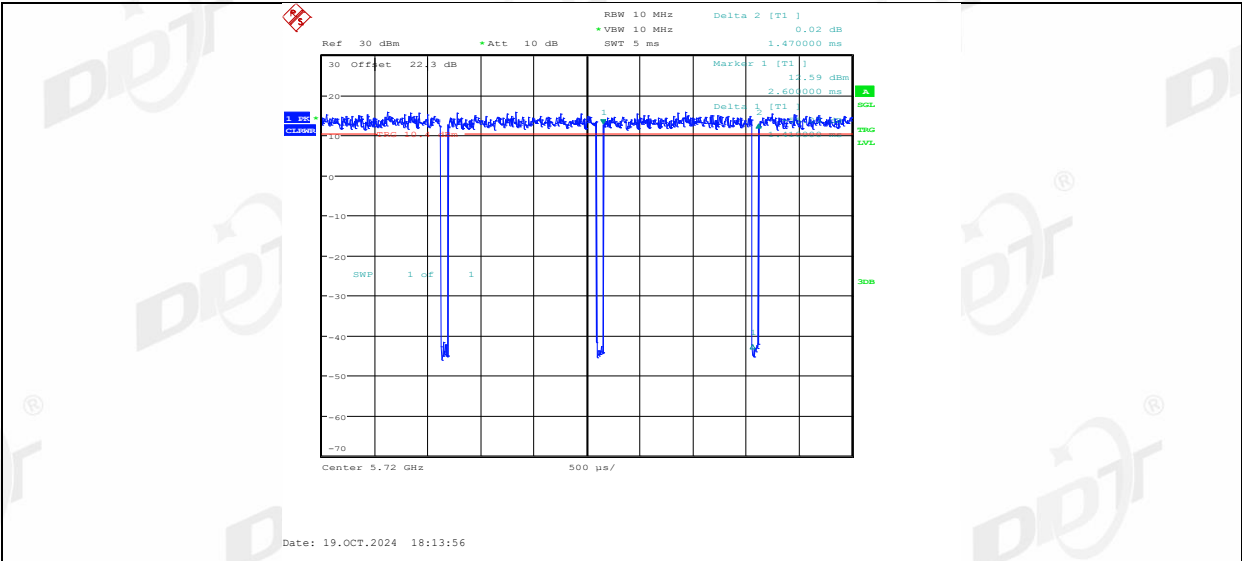
11A\_Ant1\_5700



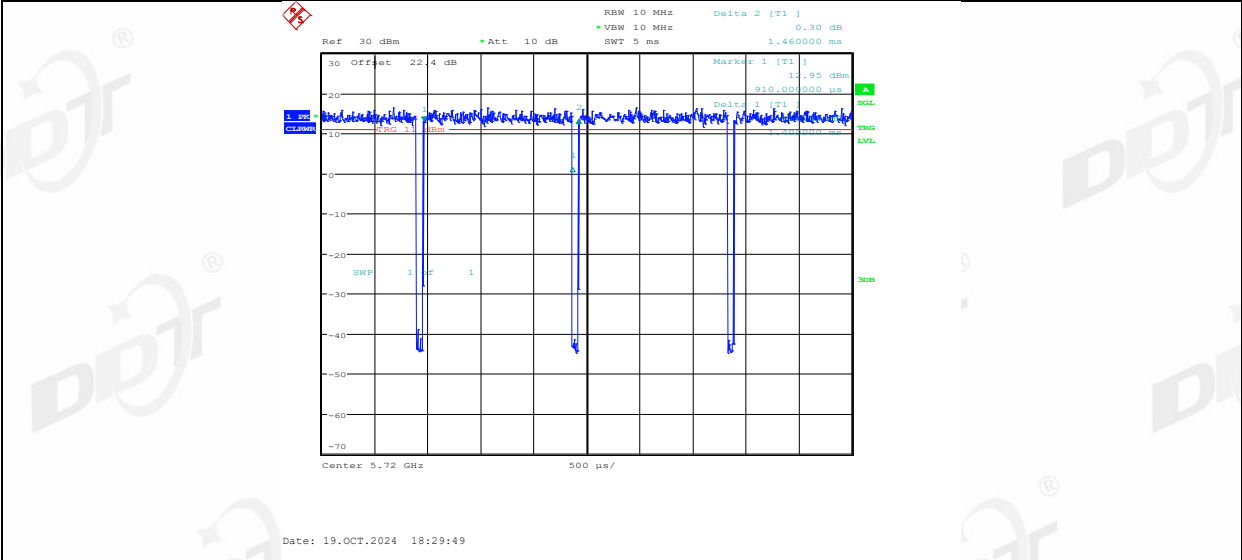
11A\_Ant2\_5700



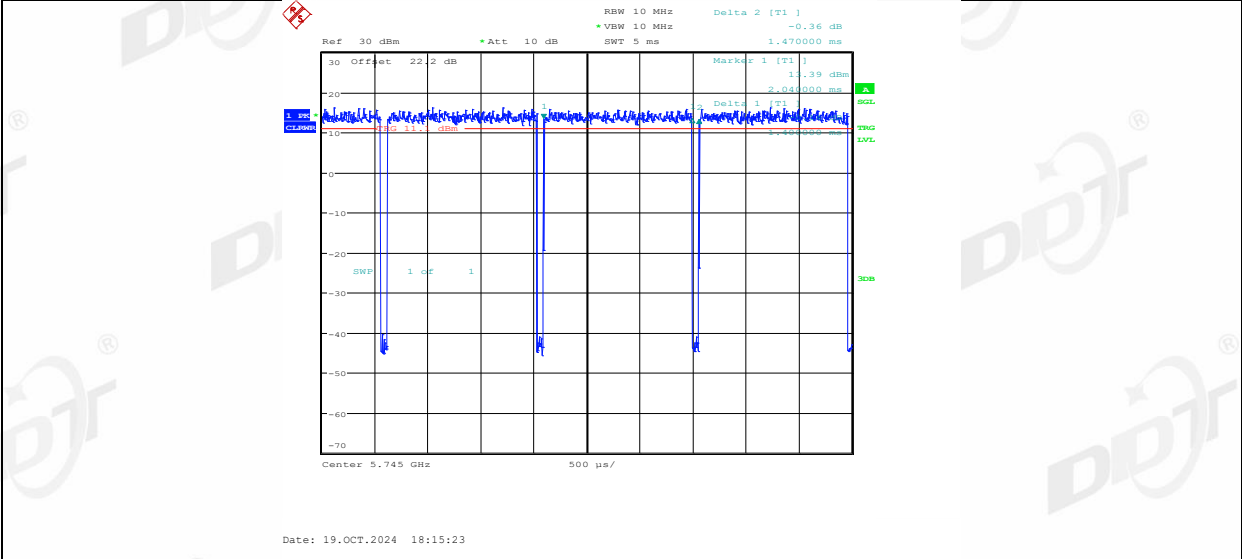
11A\_Ant1\_5720



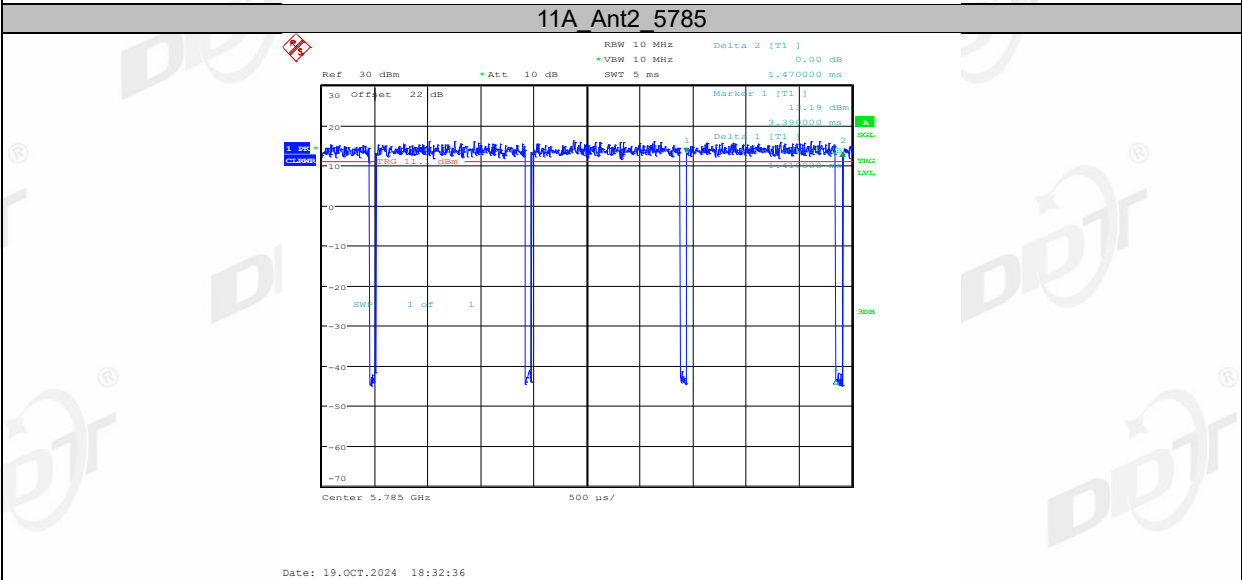
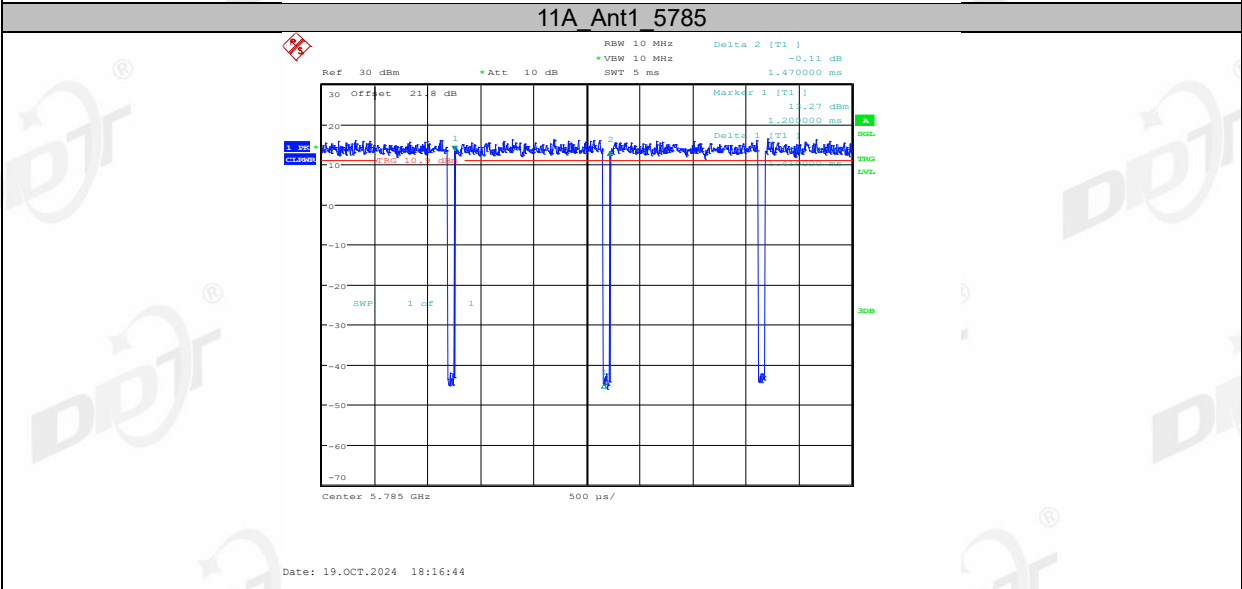
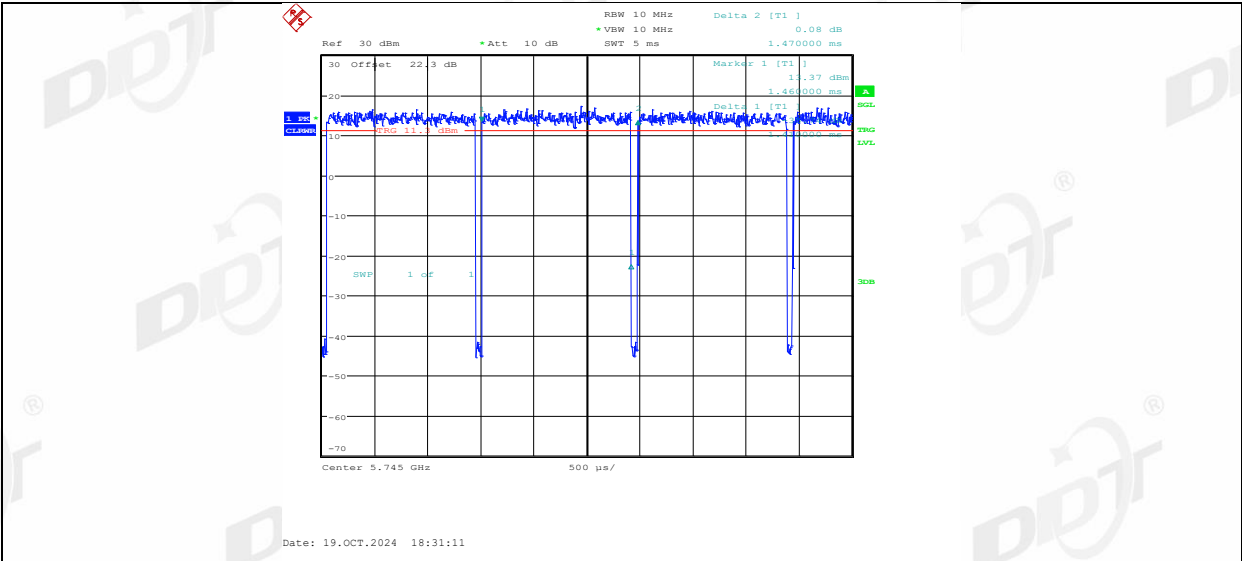
11A\_Ant2\_5720

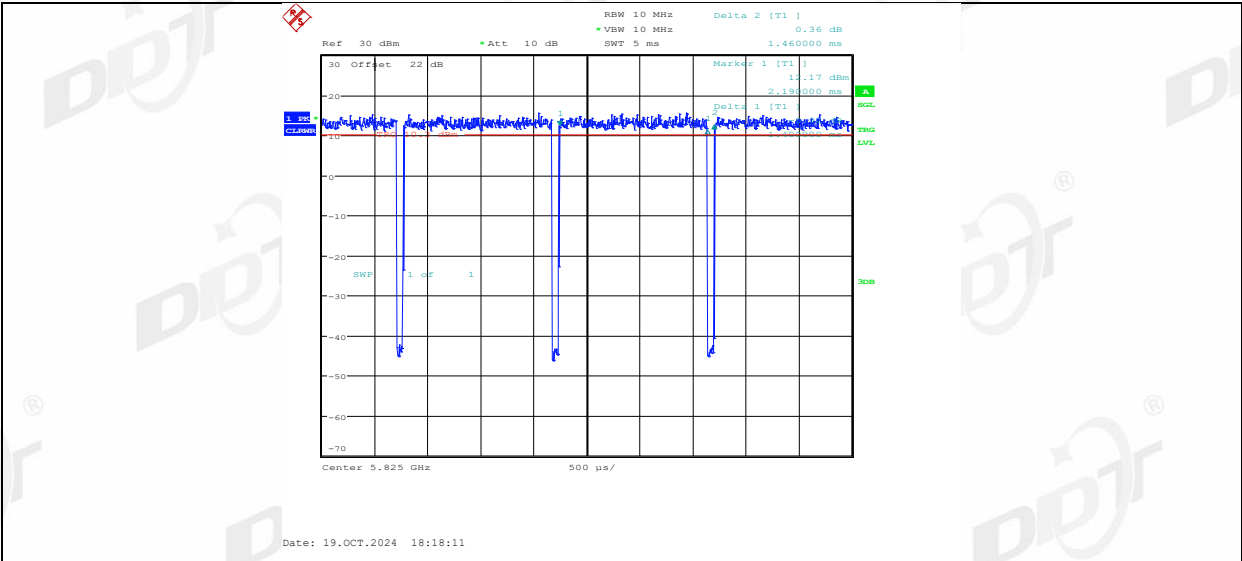


11A\_Ant1\_5745

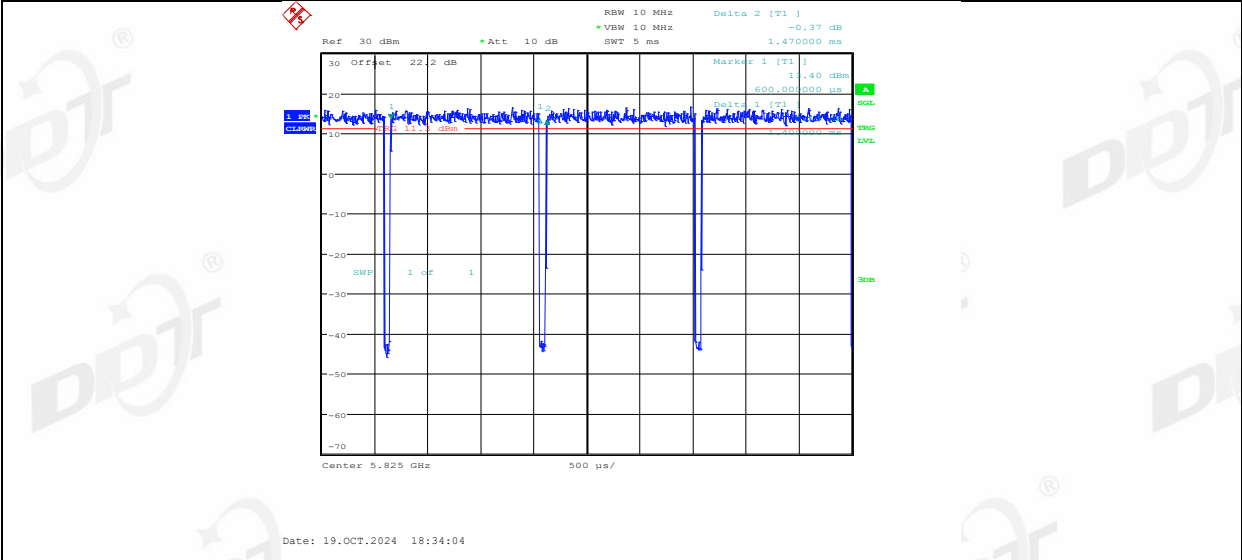


11A\_Ant2\_5745

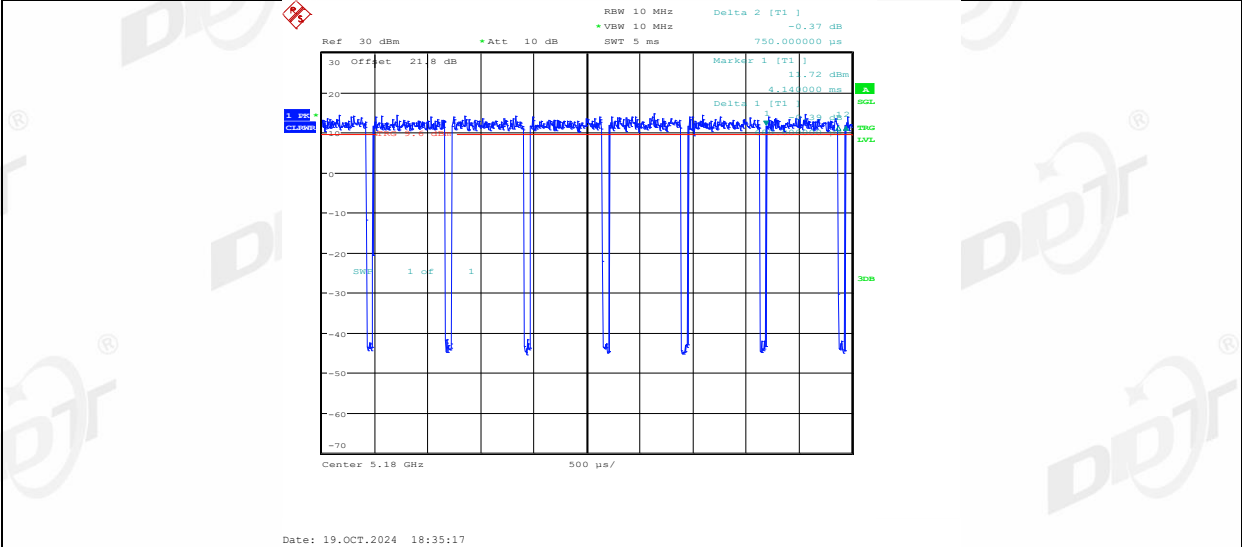




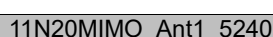
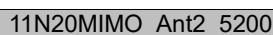
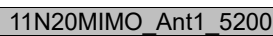
11A\_Ant2\_5825

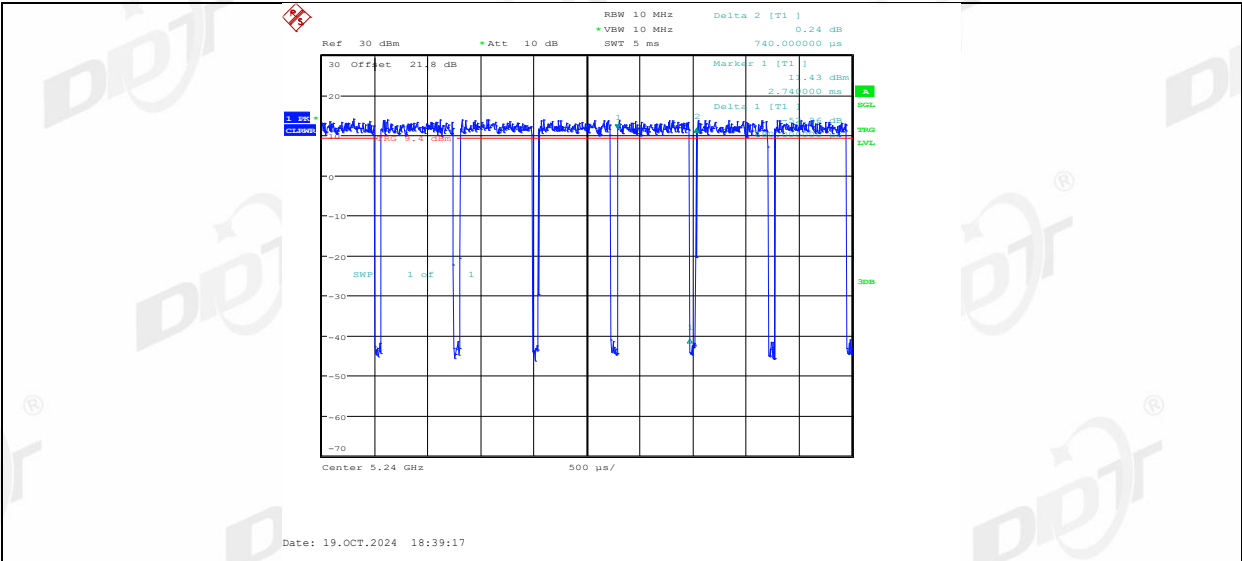


11N20MIMO\_Ant1\_5180

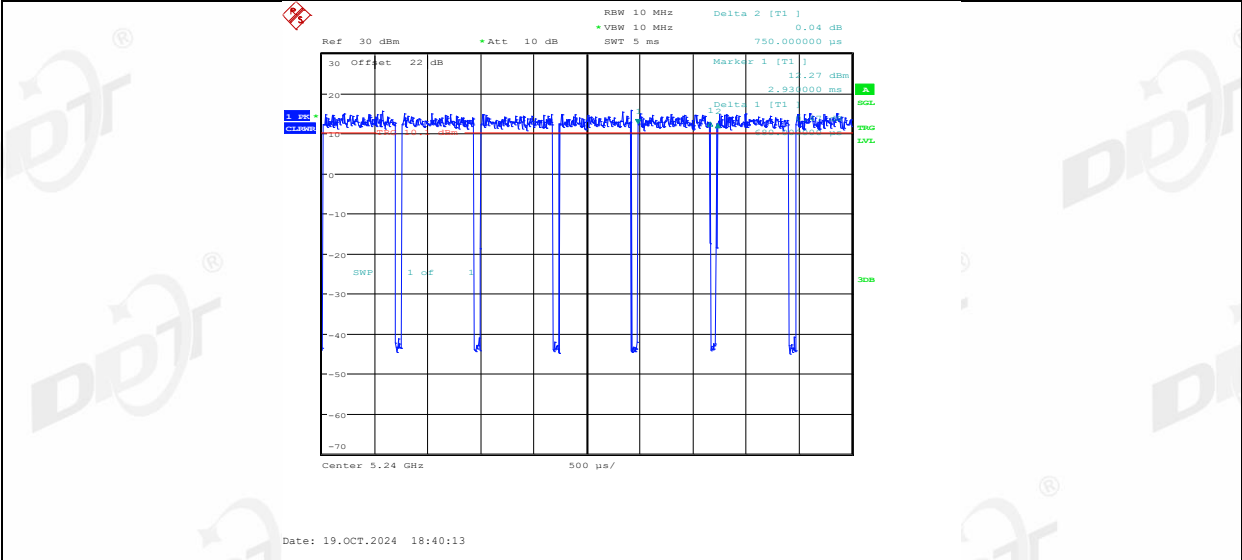


11N20MIMO\_Ant2\_5180

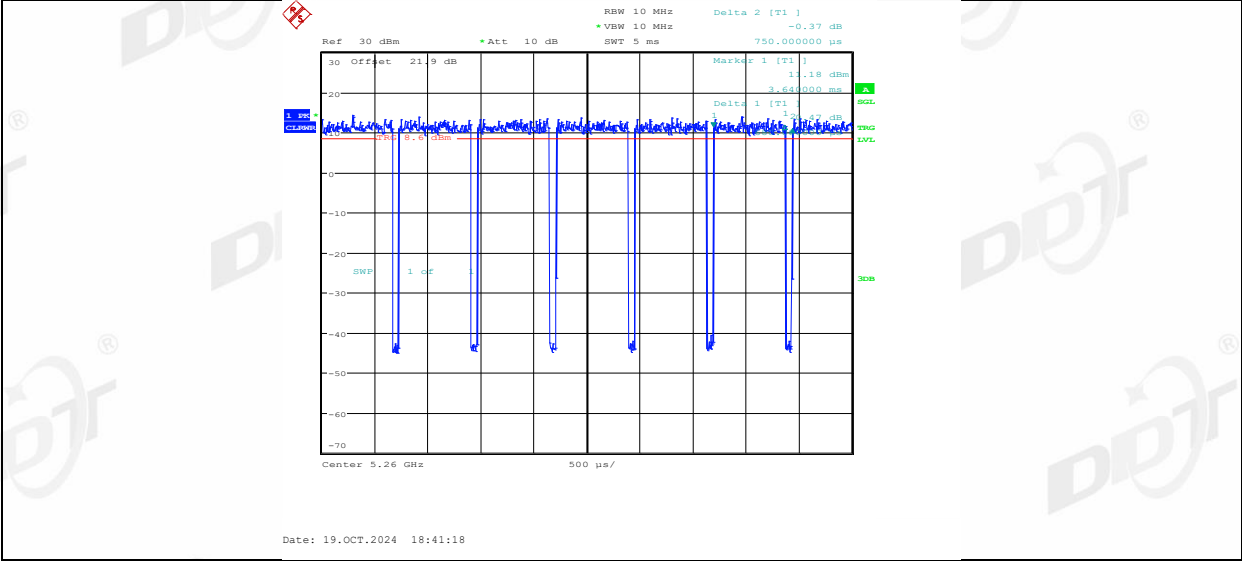




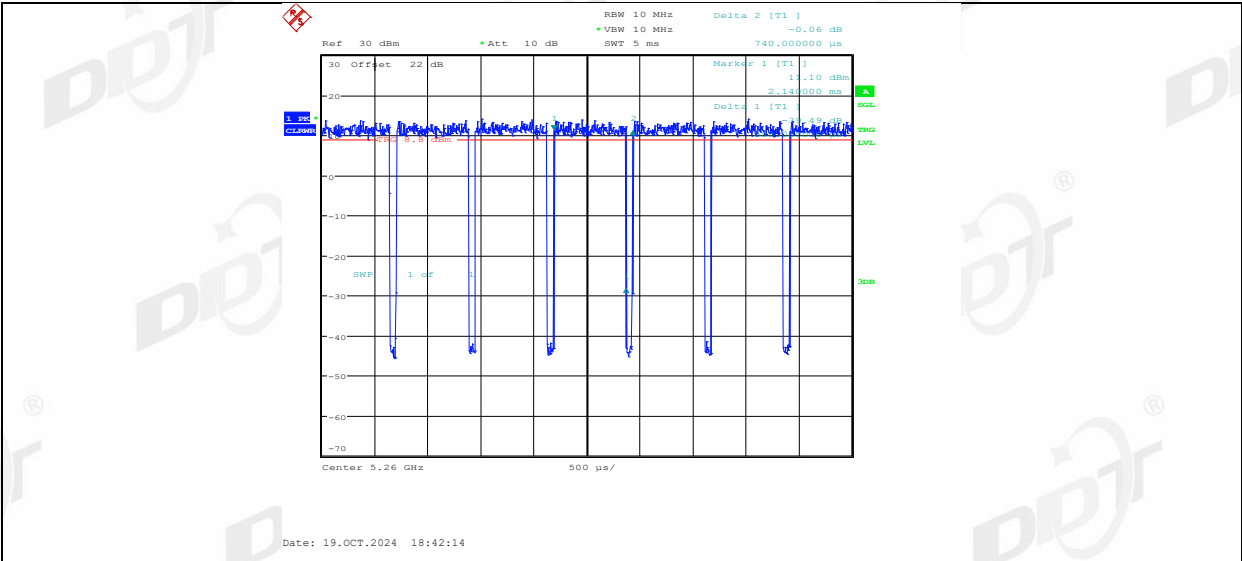
11N20MIMO\_Ant2\_5240



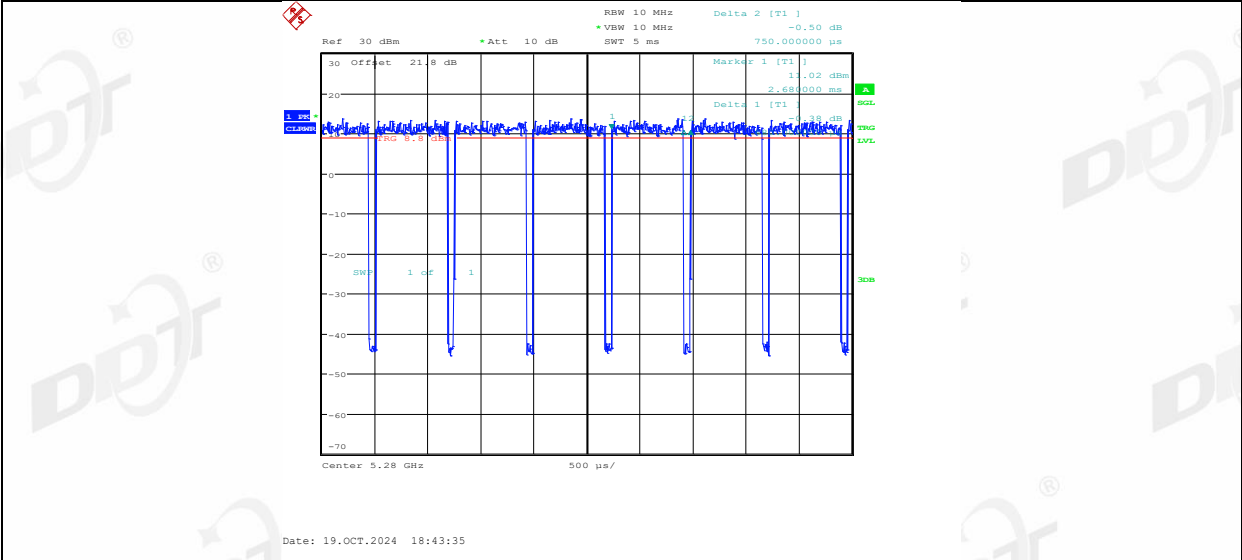
11N20MIMO\_Ant1\_5260



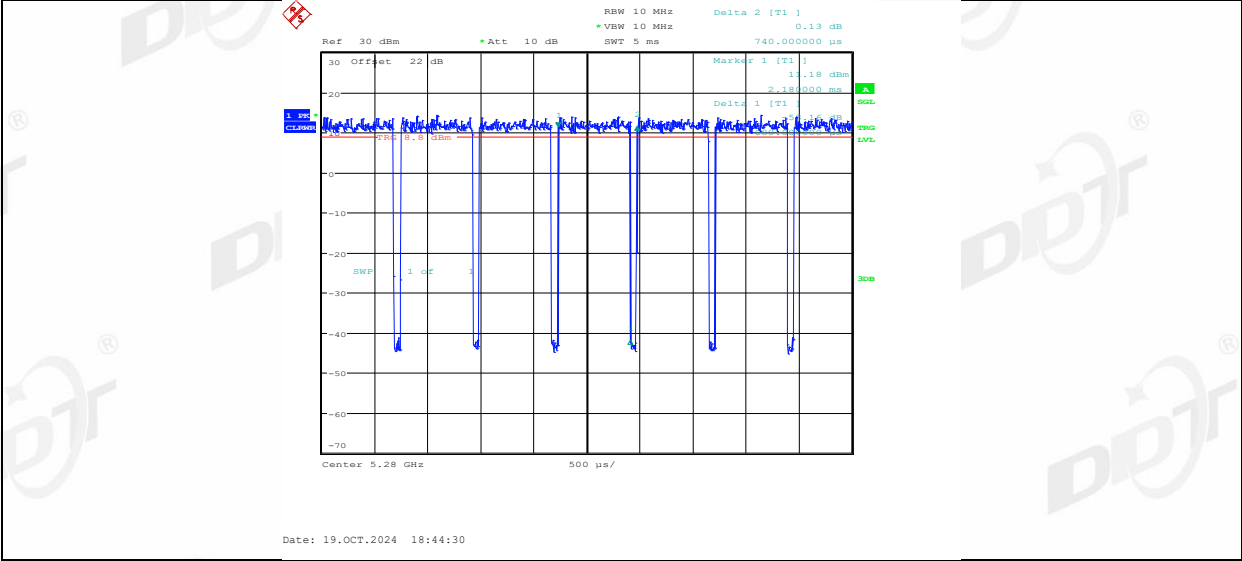
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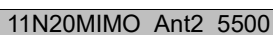
11N20MIMO\_Ant1\_5280

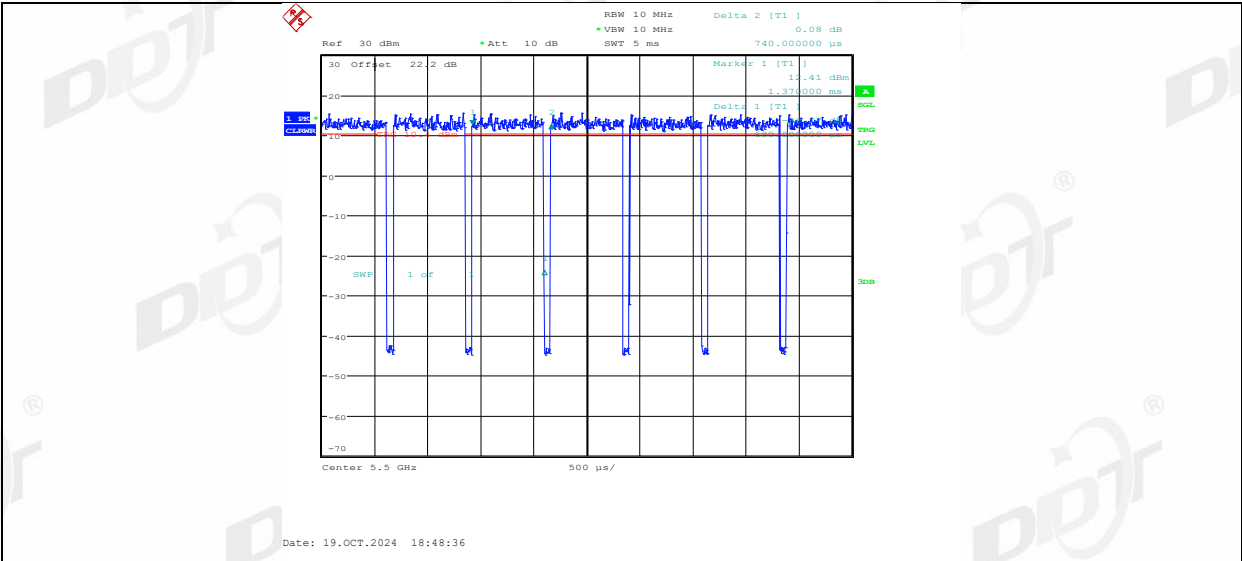


11N20MIMO\_Ant2\_5280

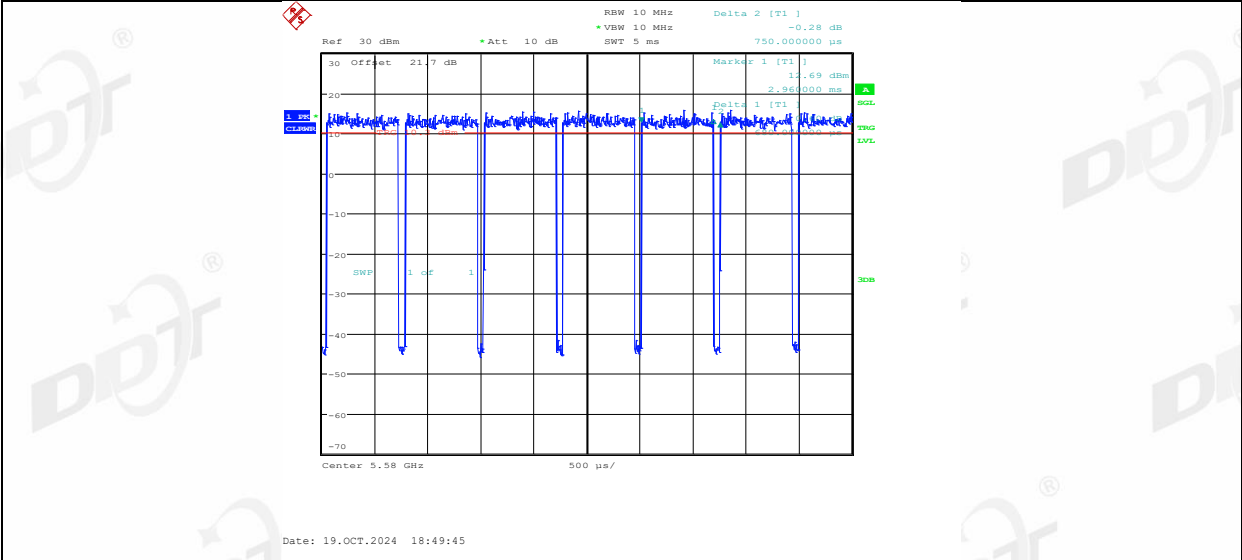


11N20MIMO\_Ant1\_5320

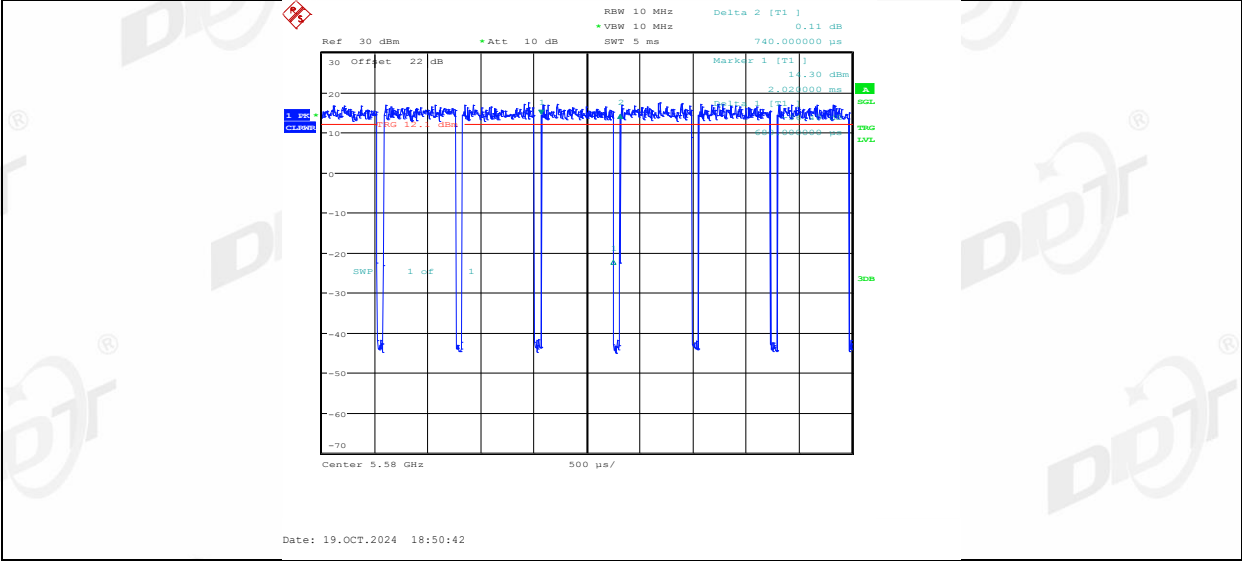




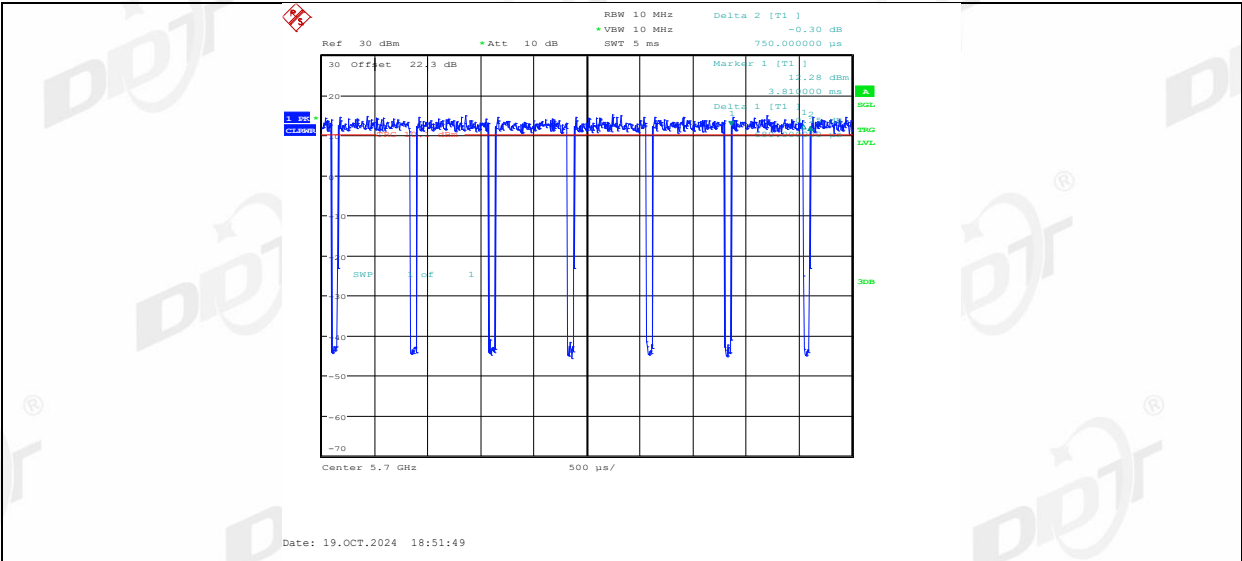
11N20MIMO\_Ant1\_5580



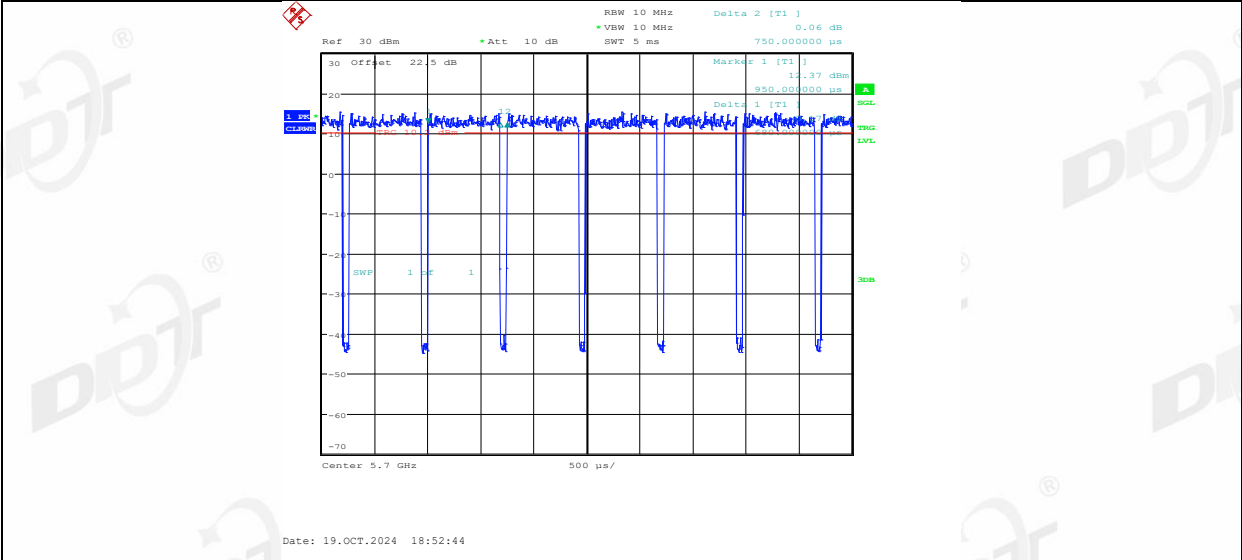
11N20MIMO\_Ant2\_5580



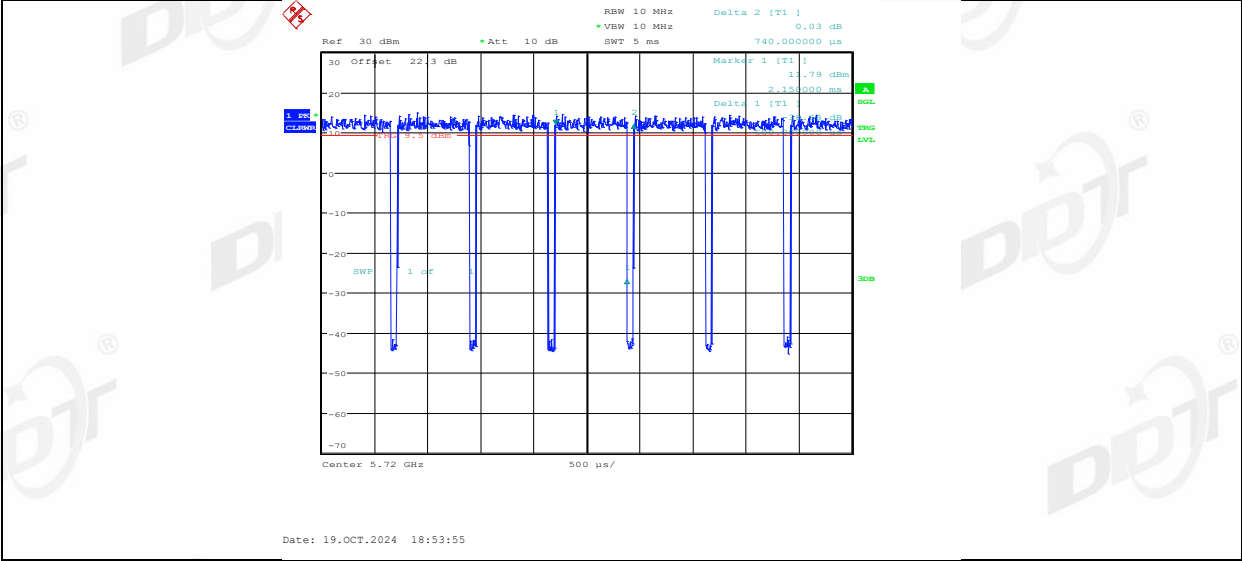
11N20MIMO\_Ant1\_5700



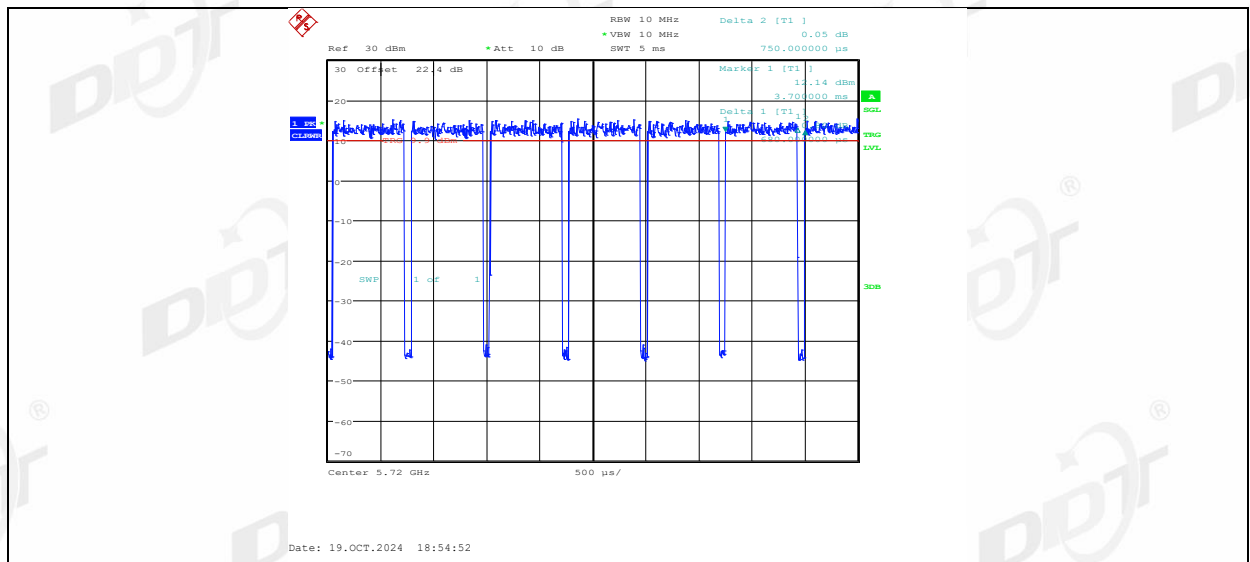
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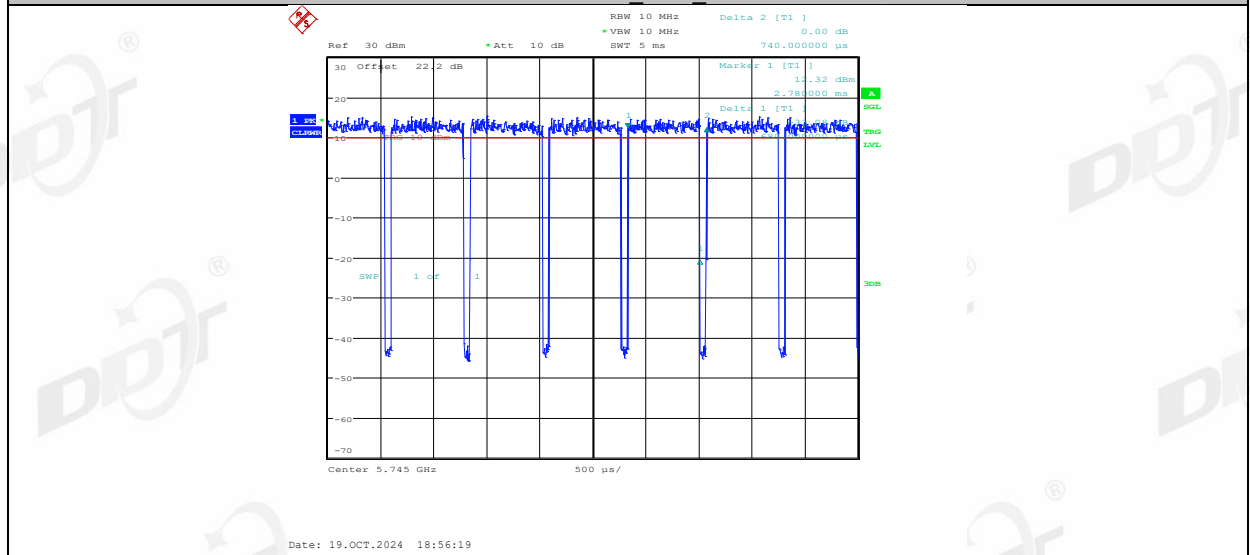
11N20MIMO\_Ant1\_5720



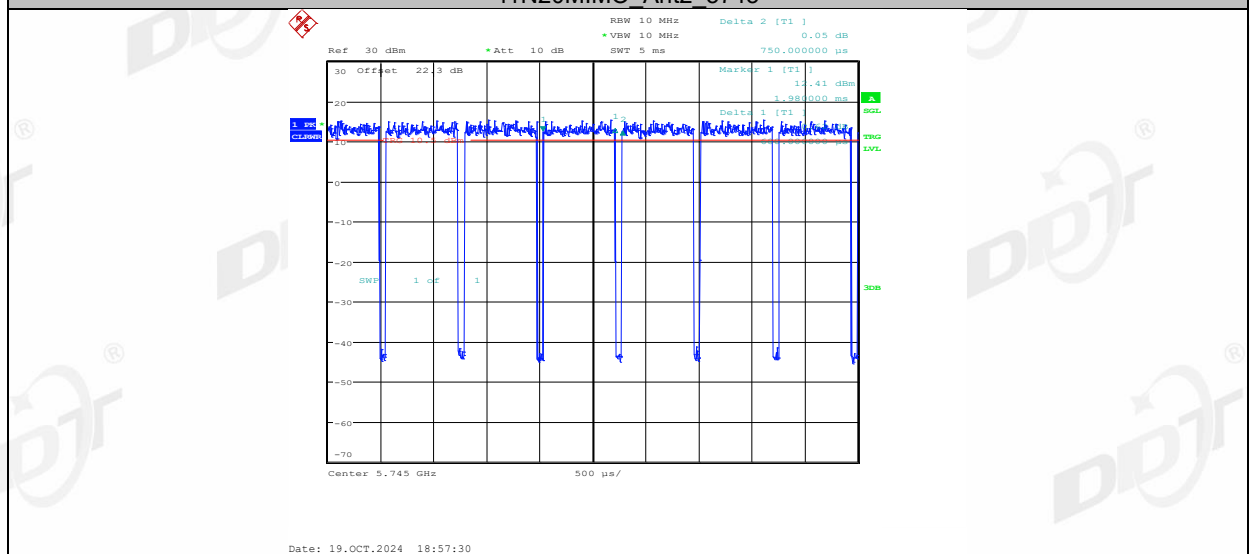
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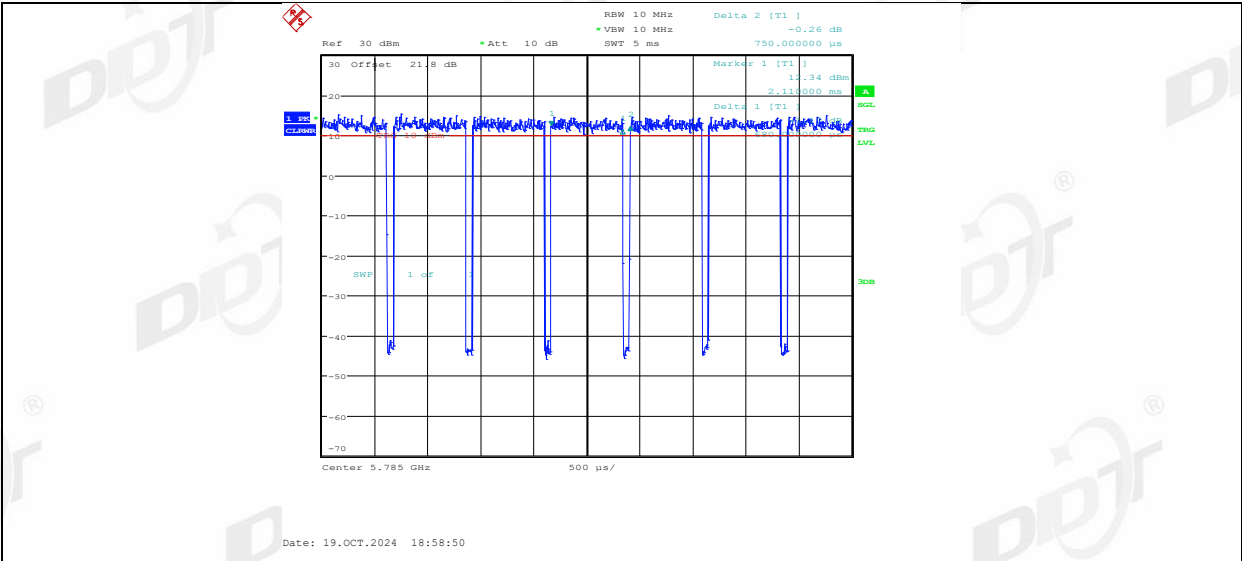
11N20MIMO\_Ant1\_5745



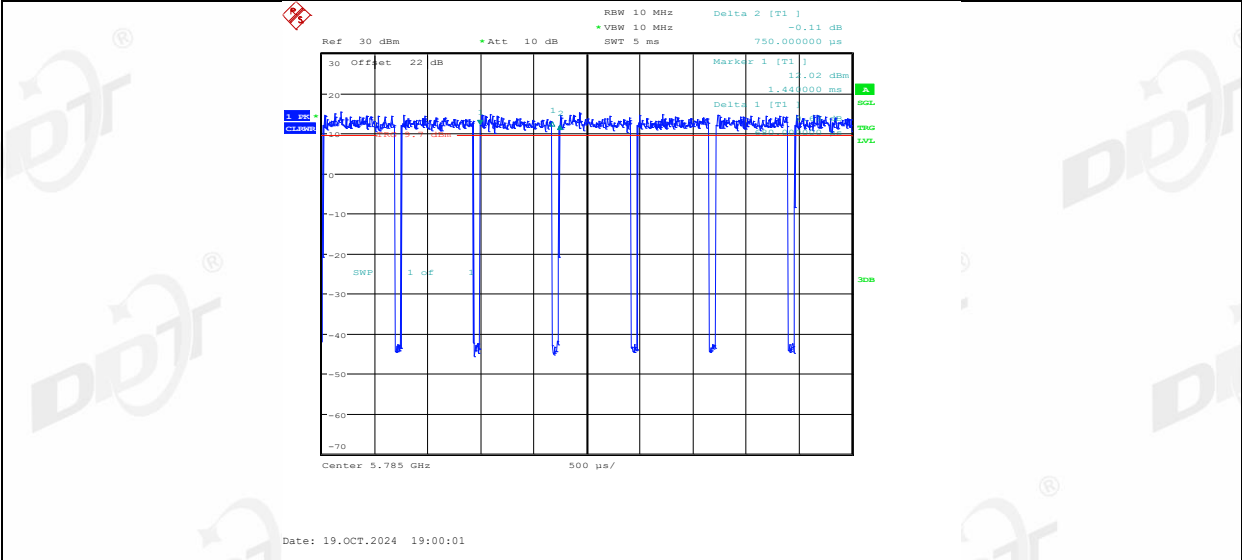
11N20MIMO\_Ant2\_5745



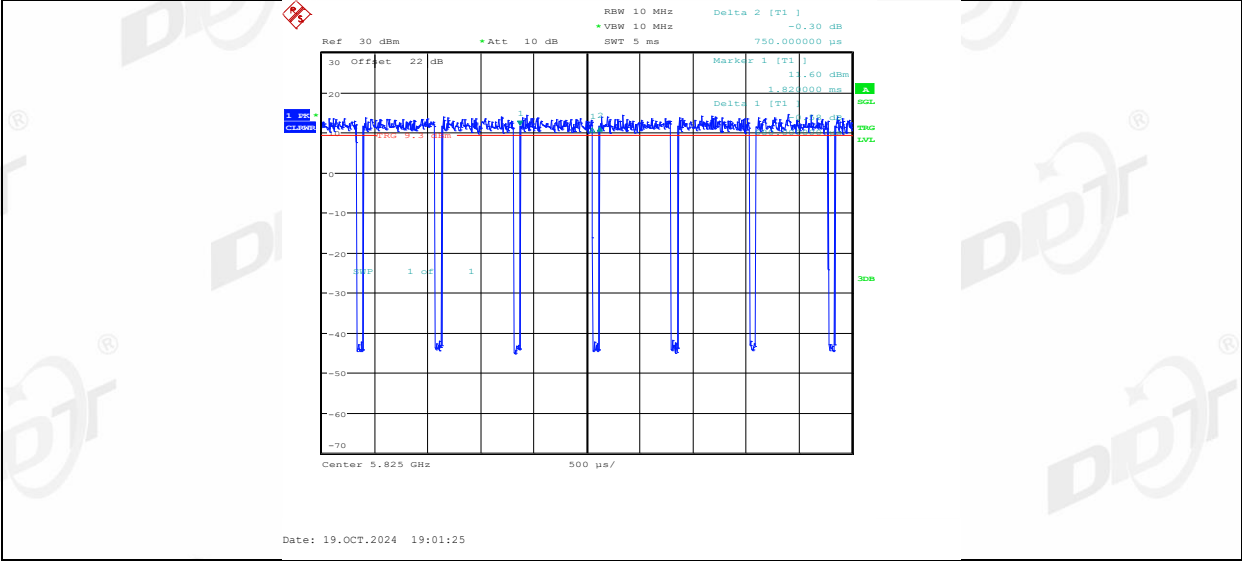
11N20MIMO Ant1 5785



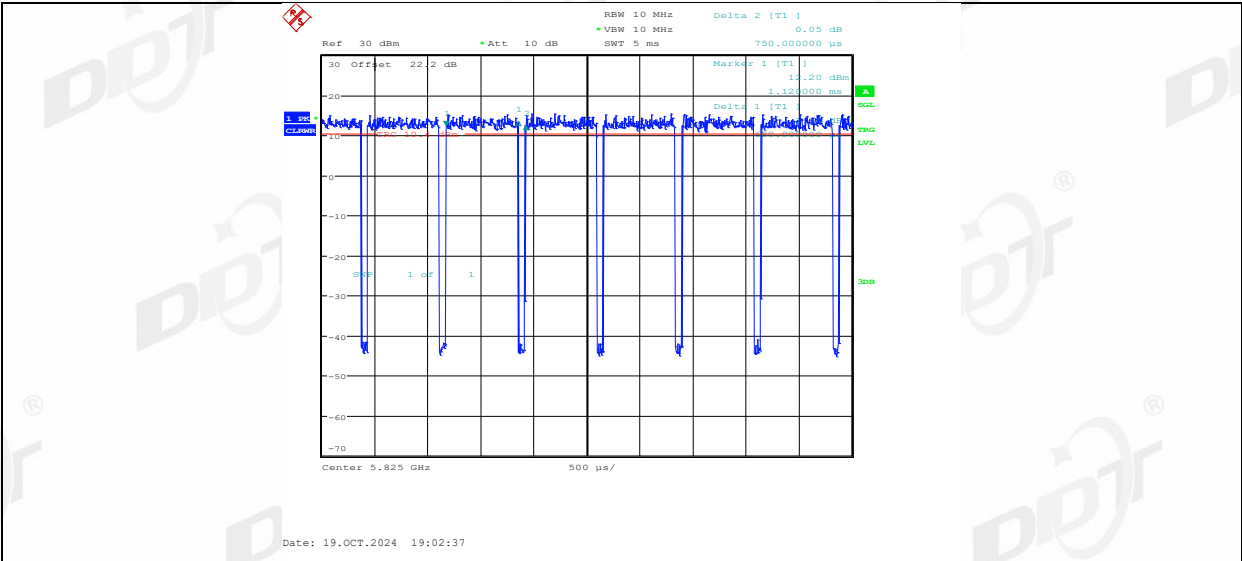
11N20MIMO\_Ant2\_5785



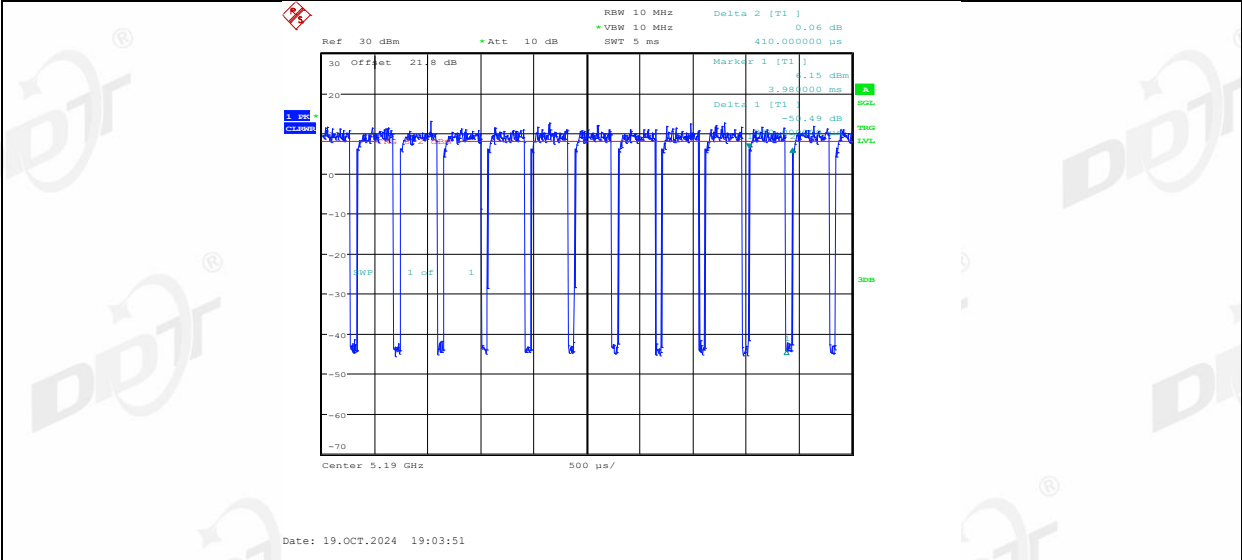
11N20MIMO\_Ant1\_5825



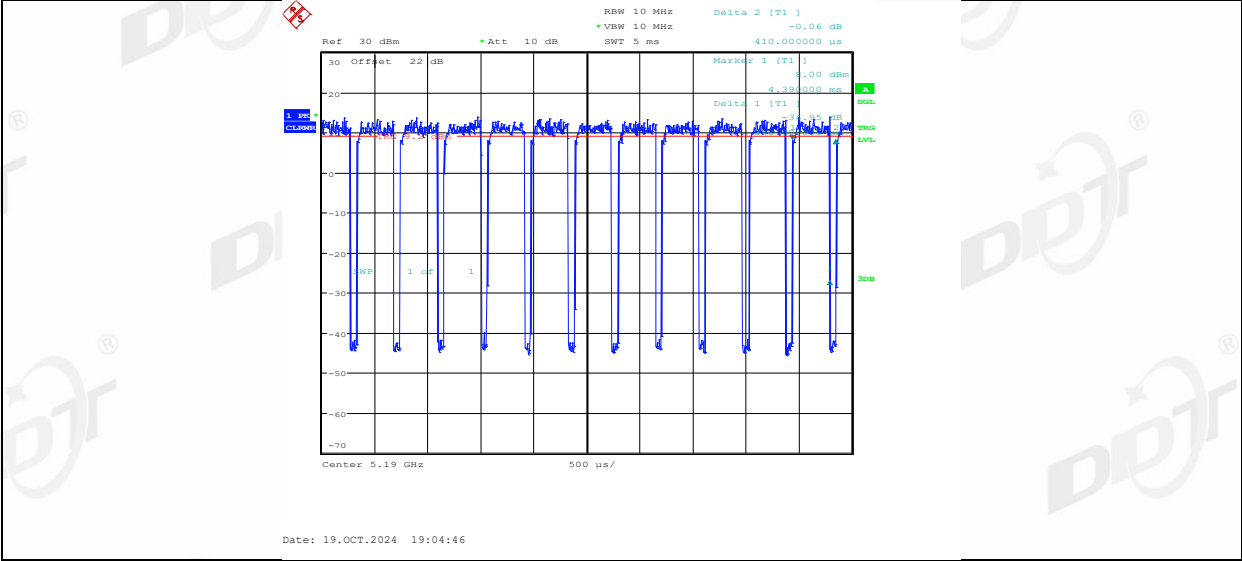
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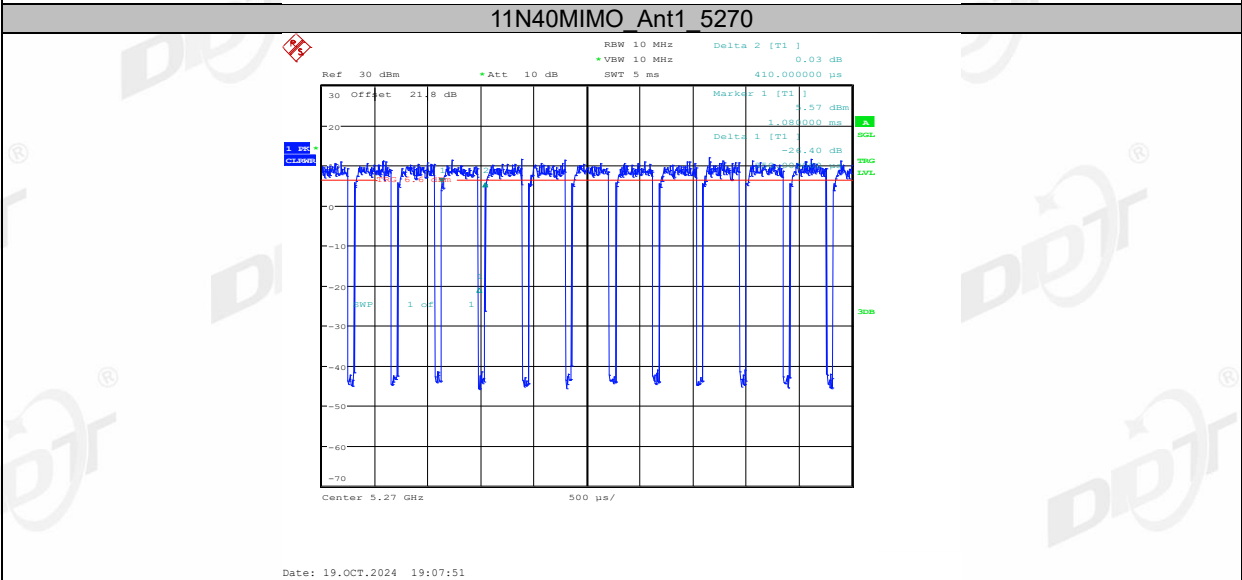
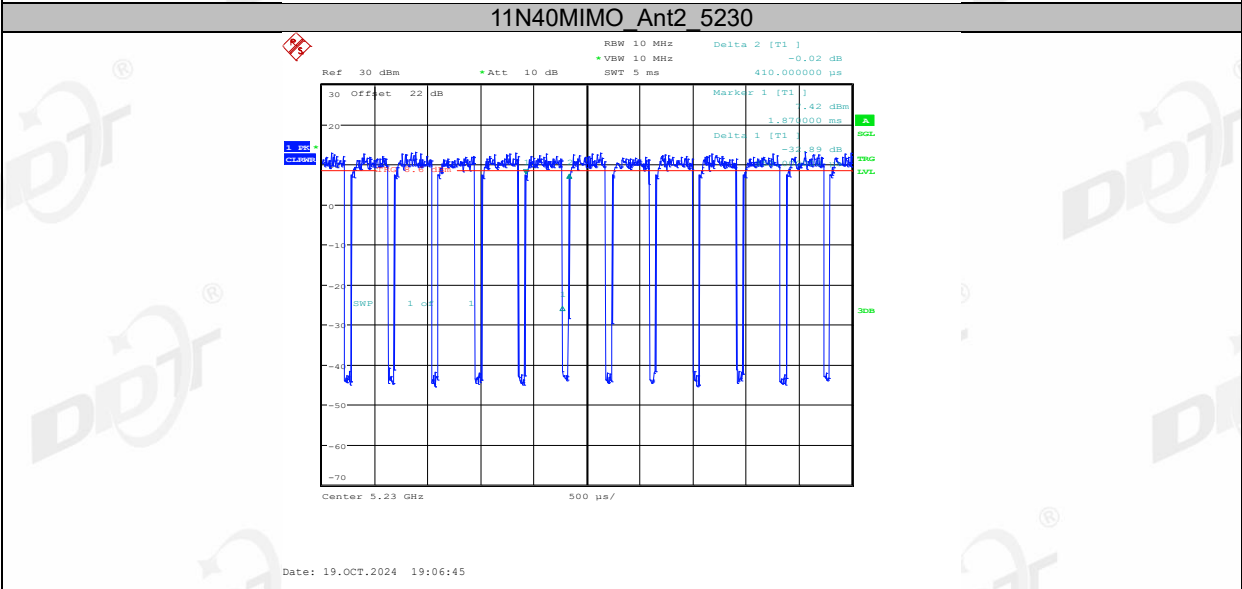
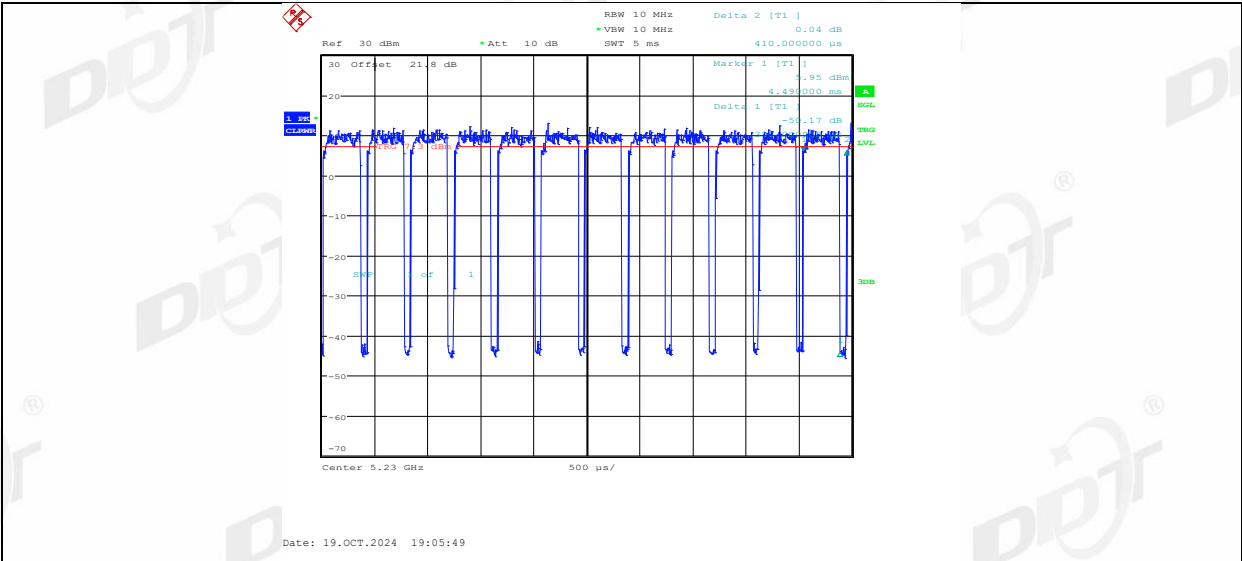
11N40MIMO\_Ant1\_5190



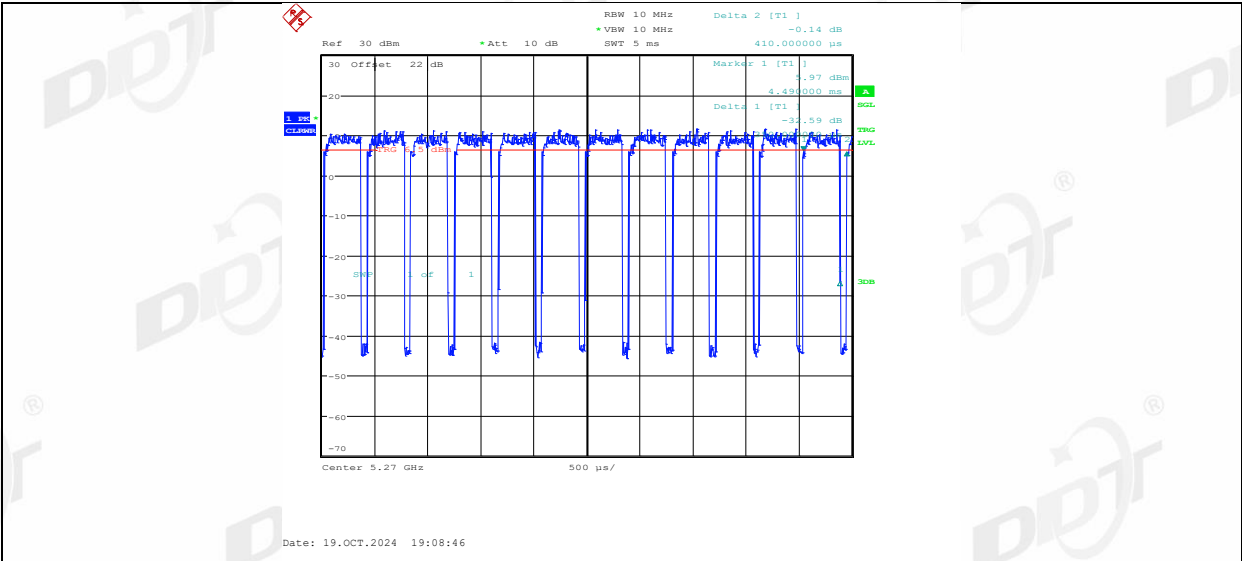
11N40MIMO\_Ant2\_5190



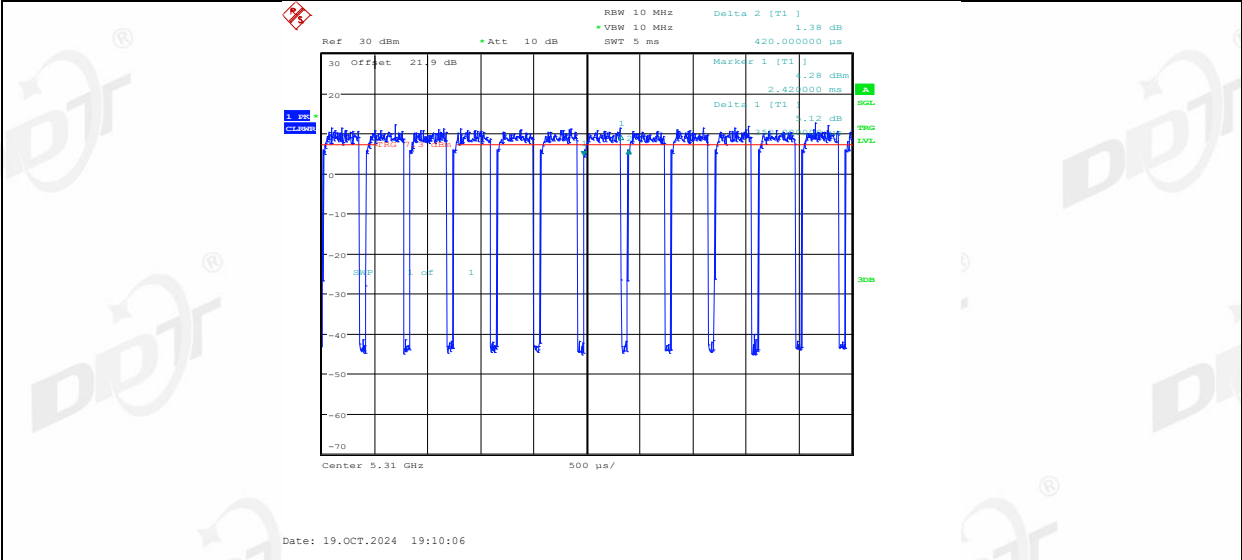
11N40MIMO\_Ant1\_5230



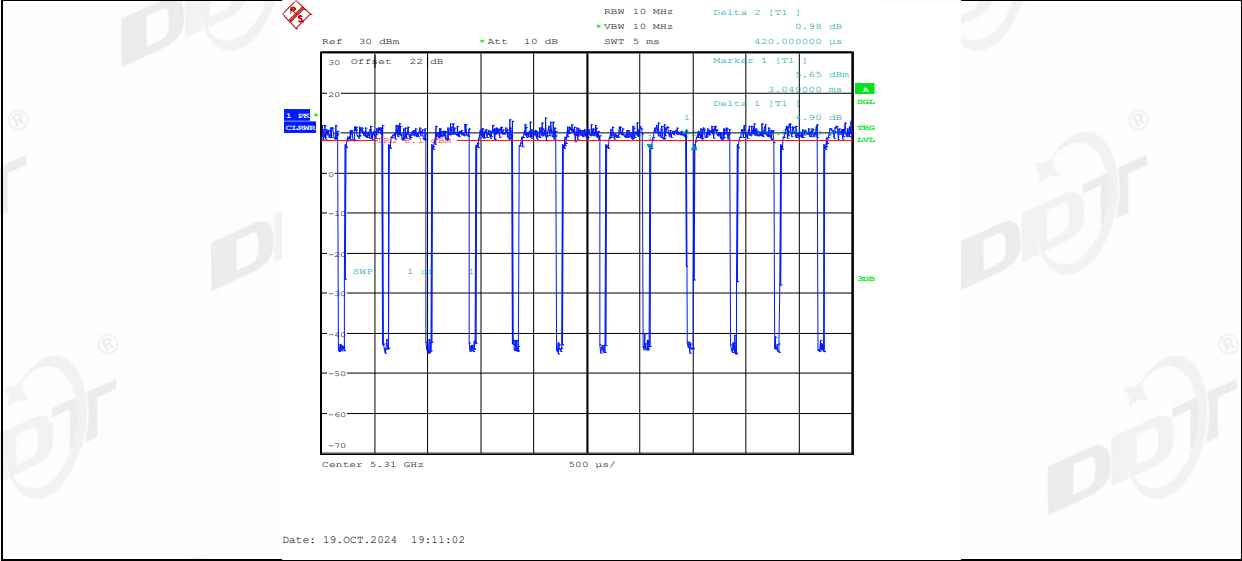
11N40MIMO\_Ant2\_5270



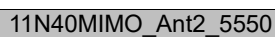
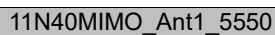
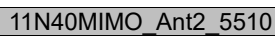
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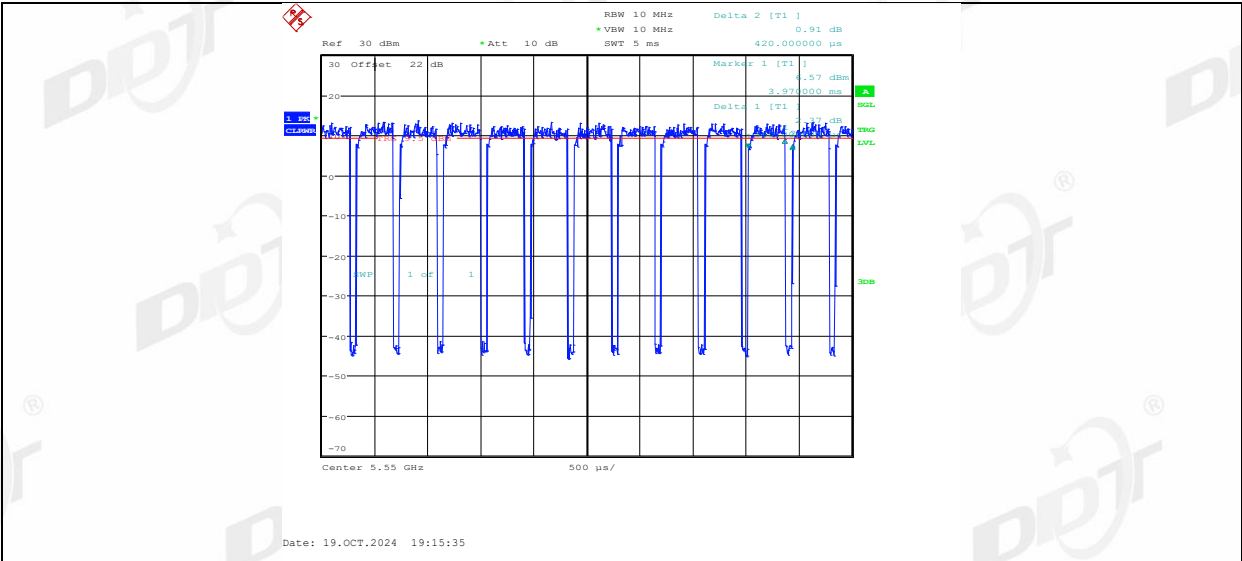


11N40MIMO\_Ant2\_5310

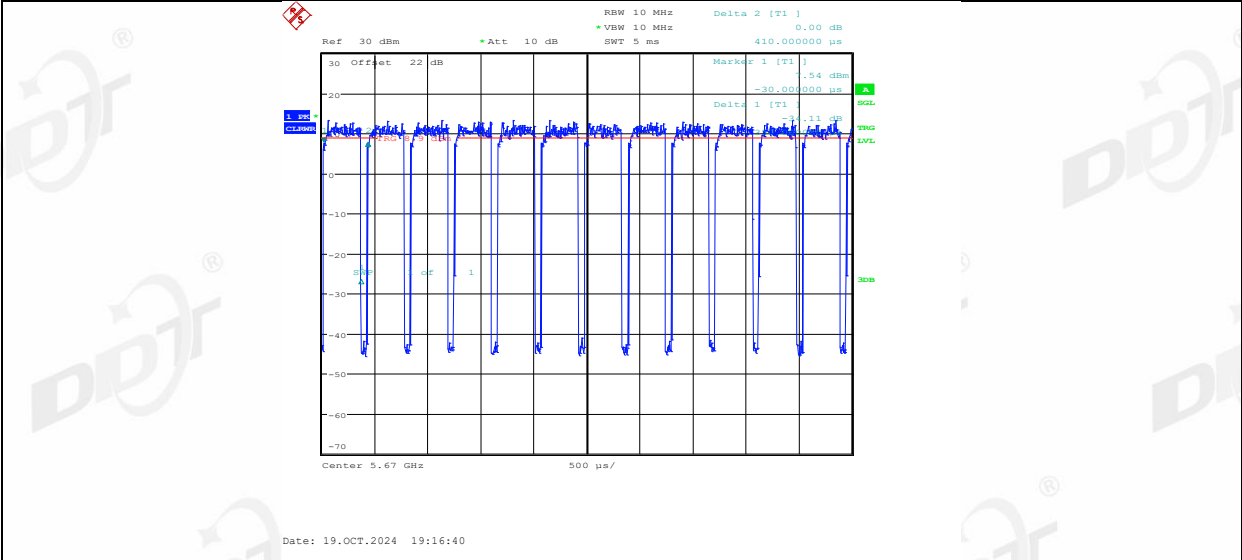


11N40MIMO\_Ant1\_5510

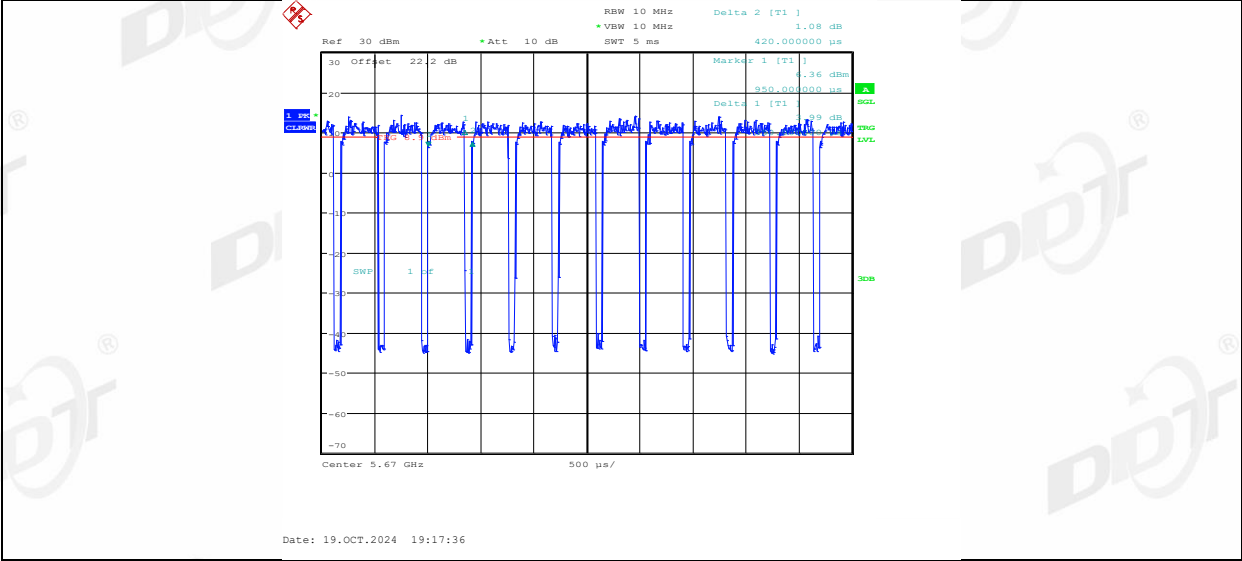




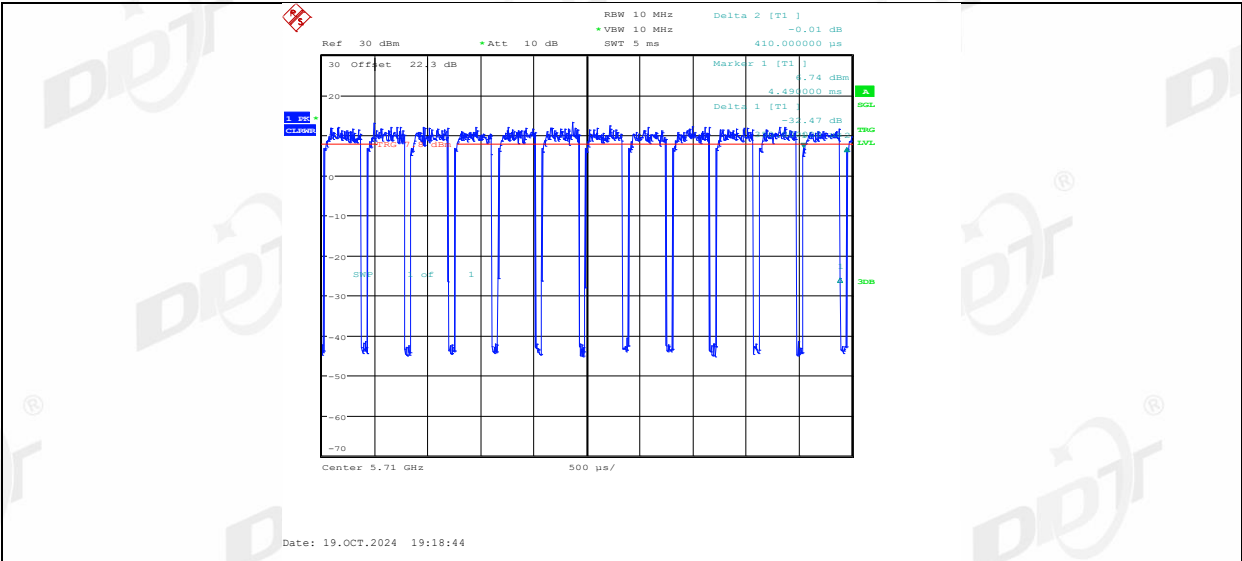
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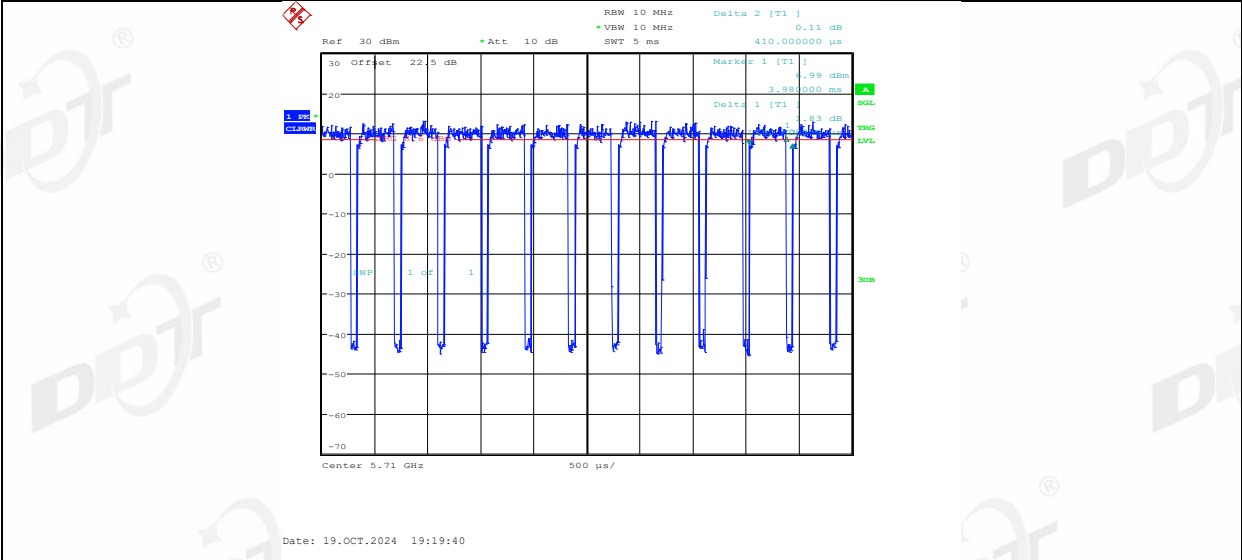
11N40MIMO\_Ant2\_5670



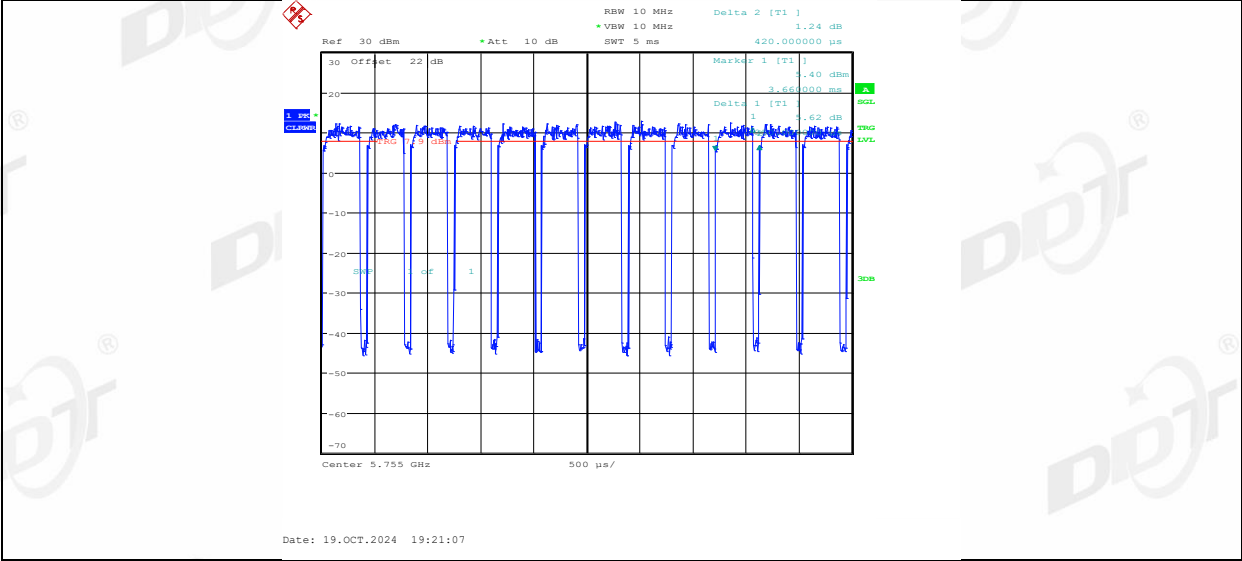
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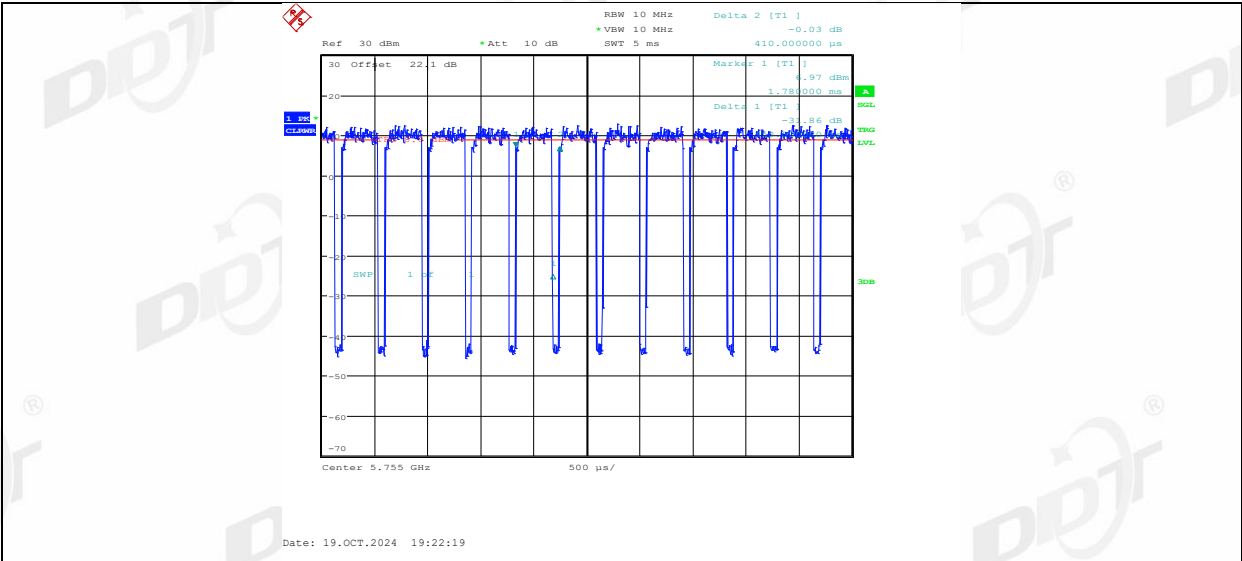
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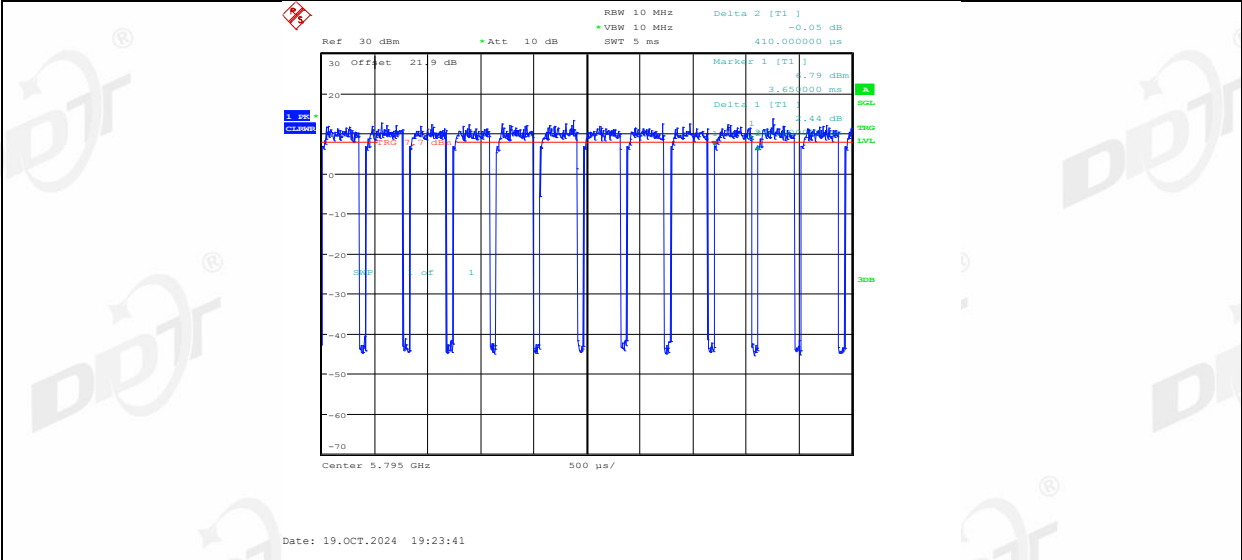
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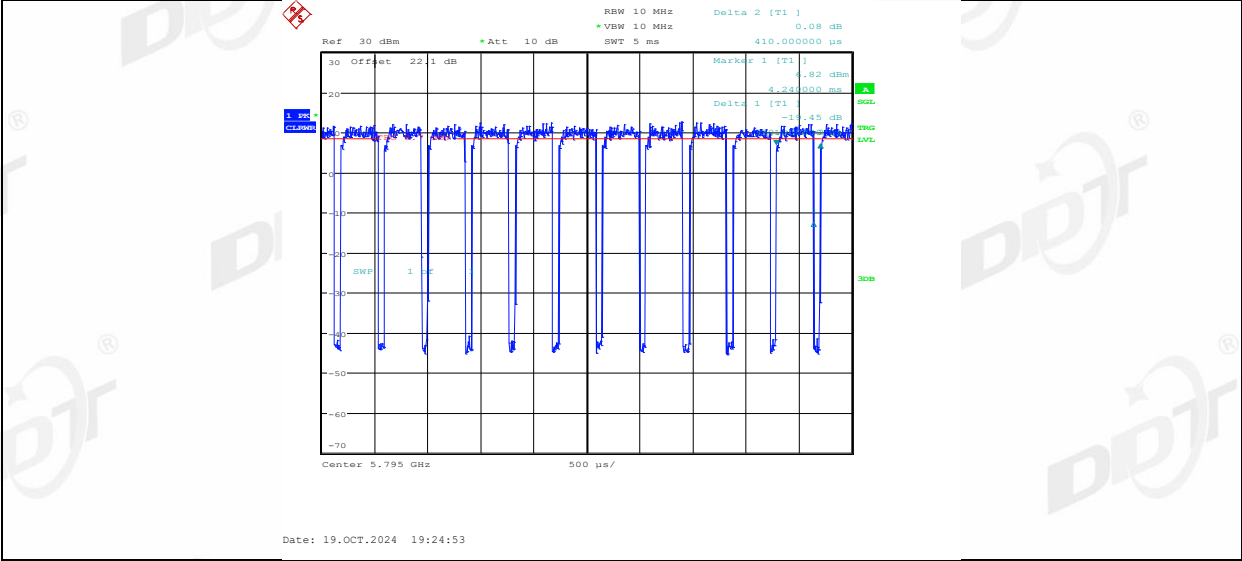
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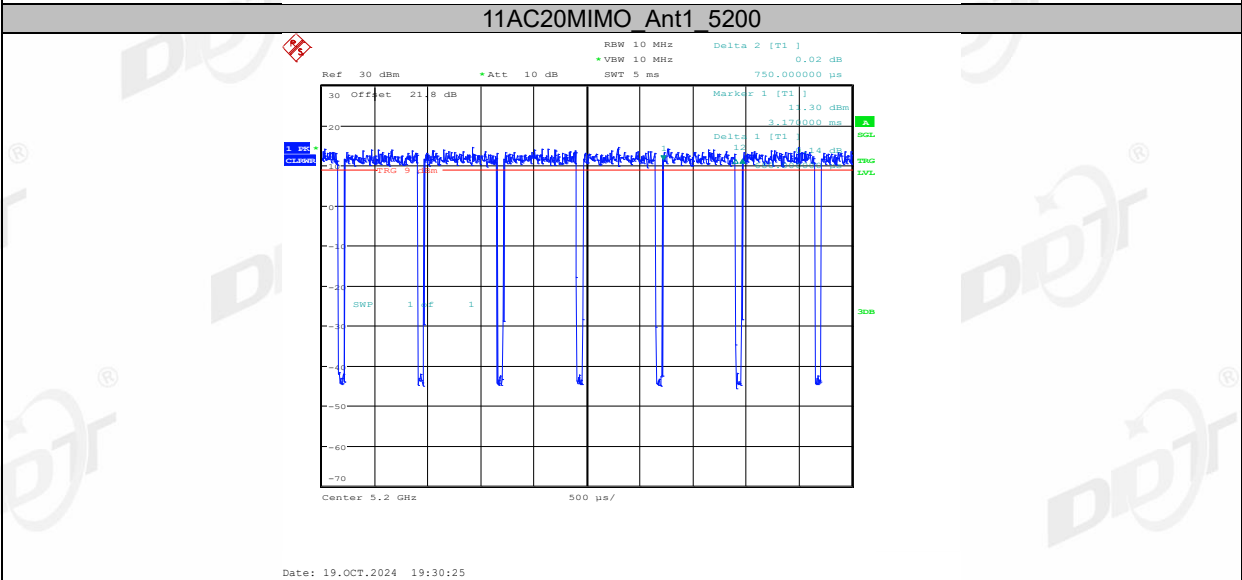
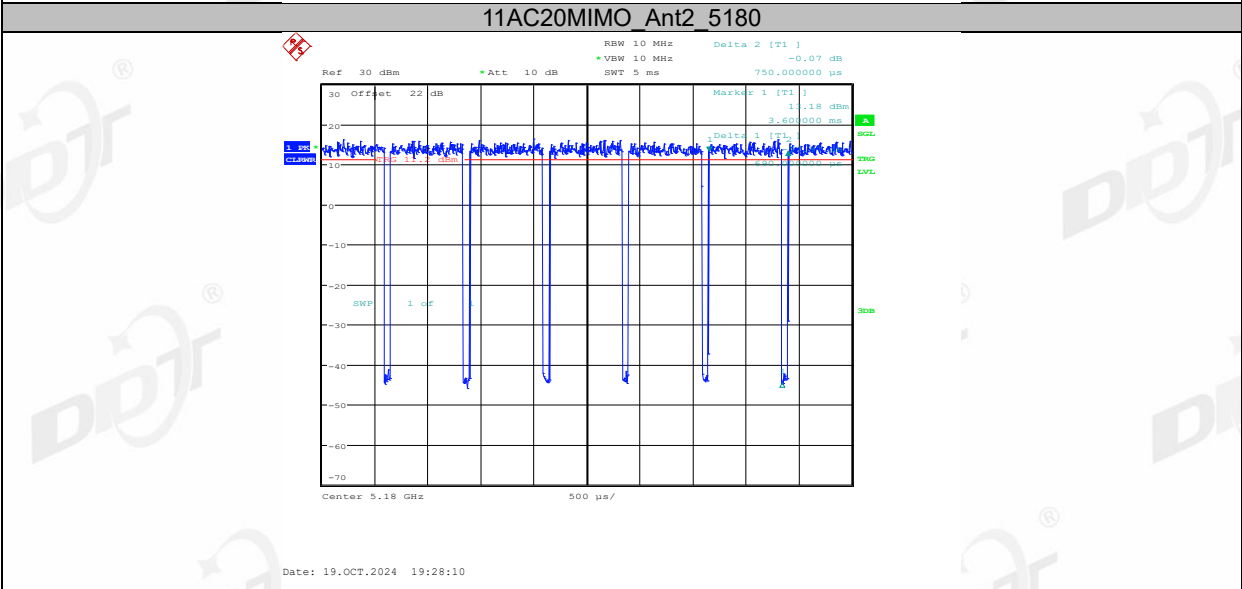
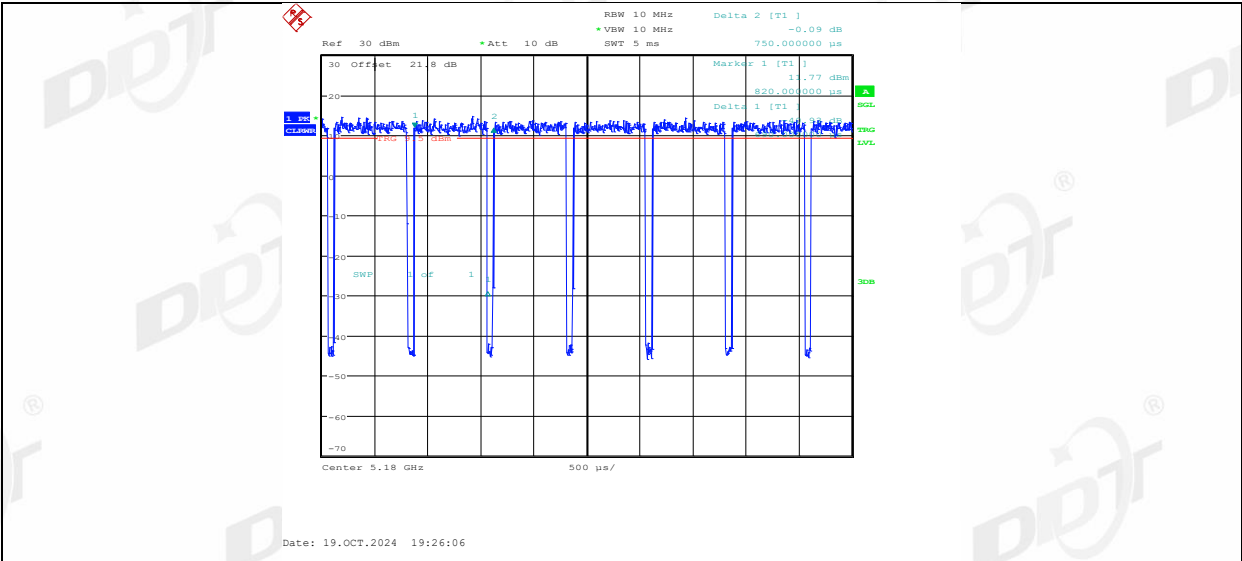
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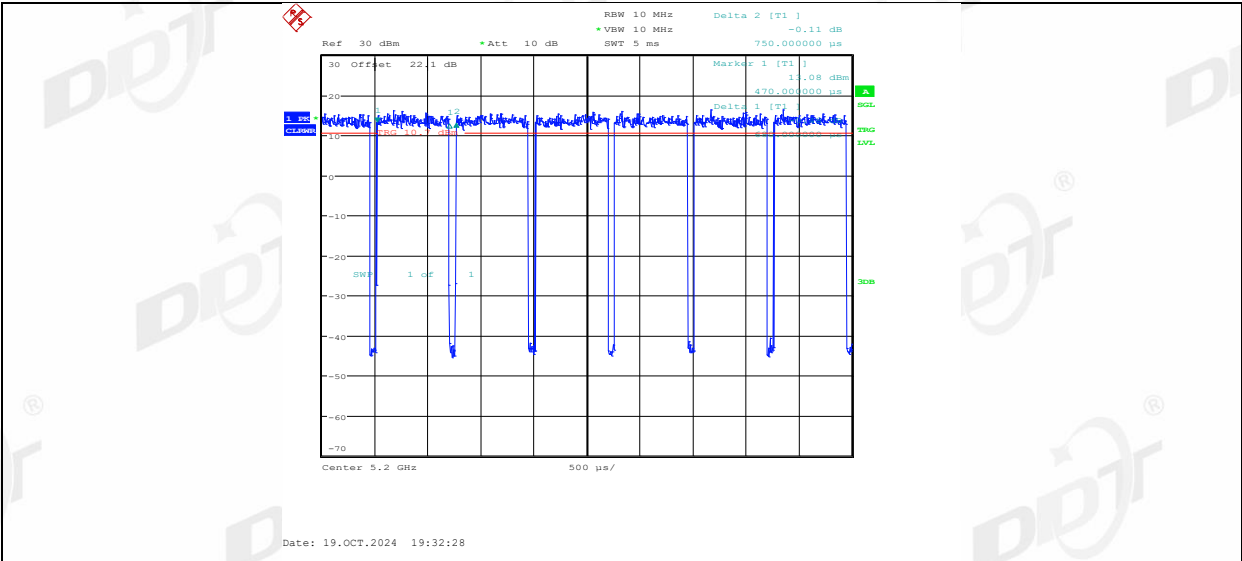
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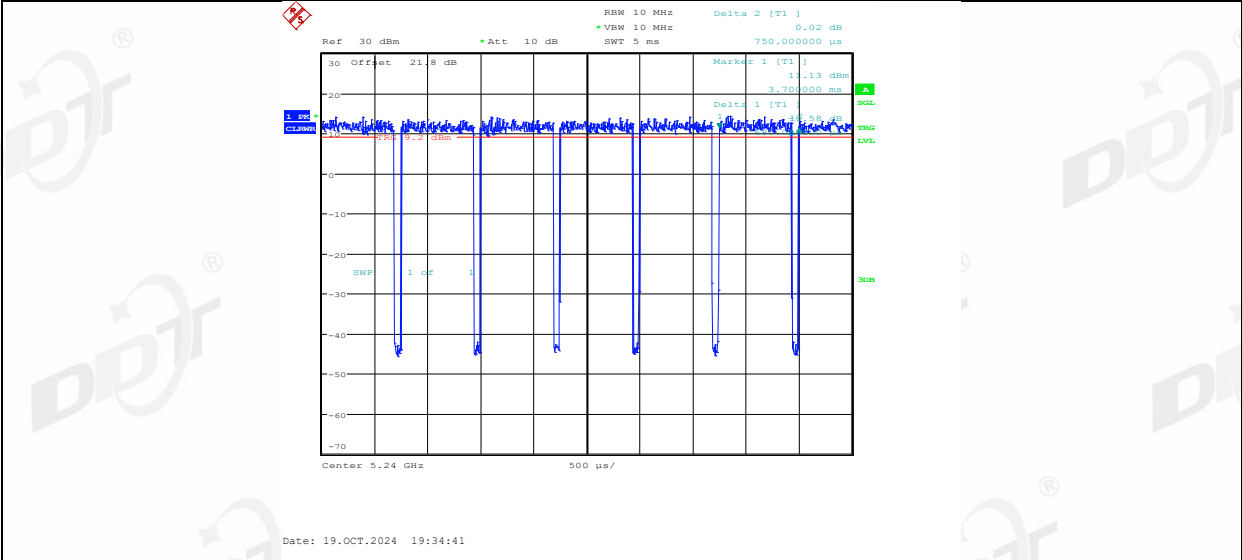
11AC20MIMO\_Ant1\_5180



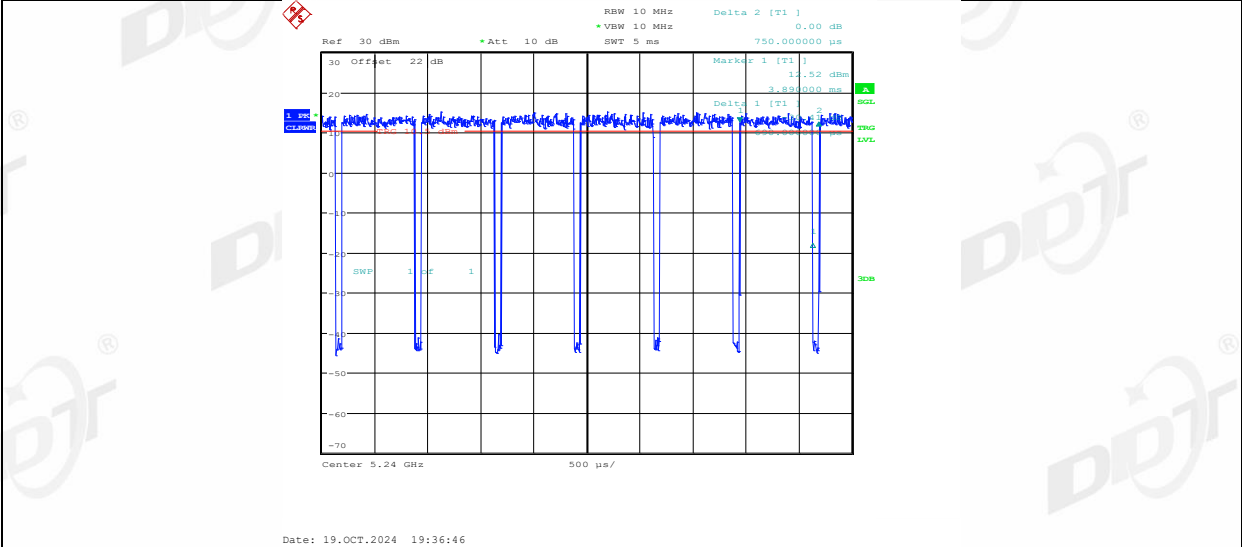
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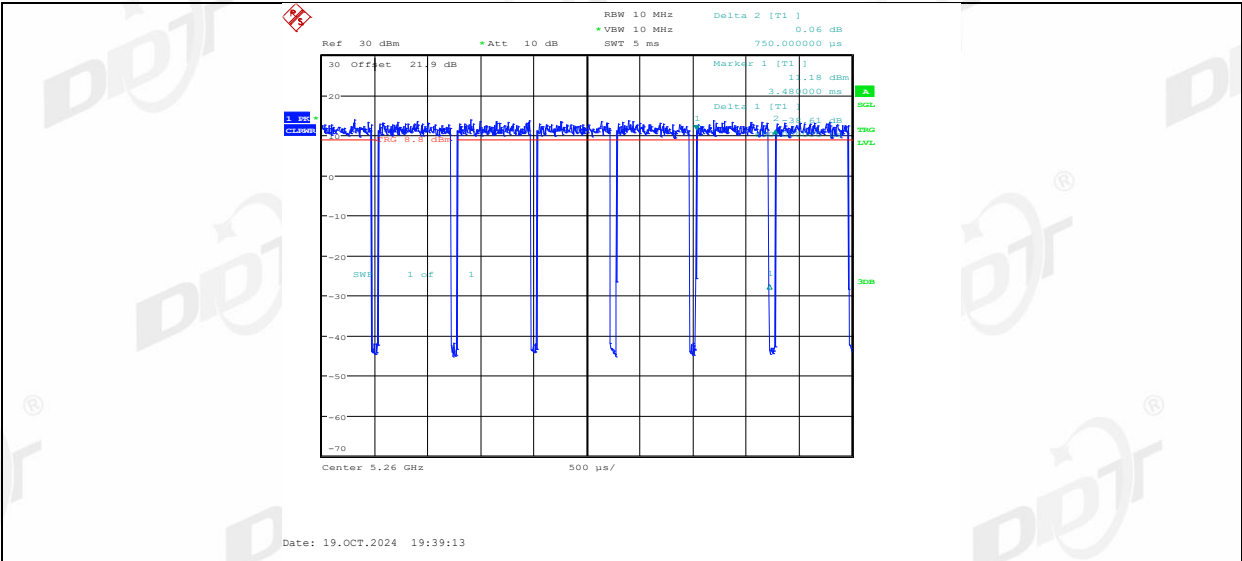
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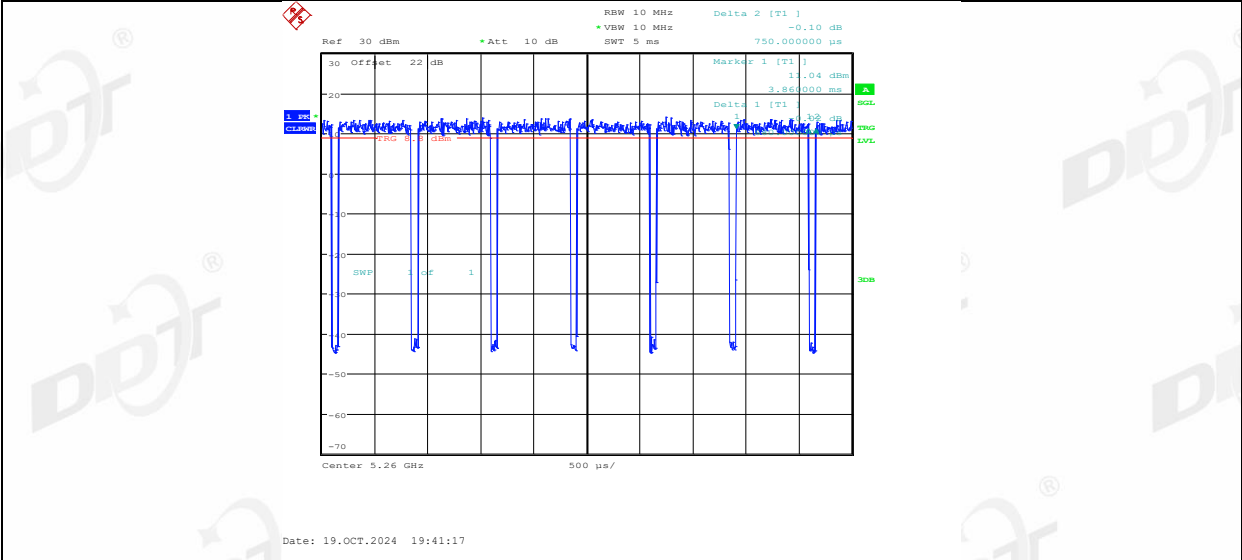
11AC20MIMO\_Ant2\_5240



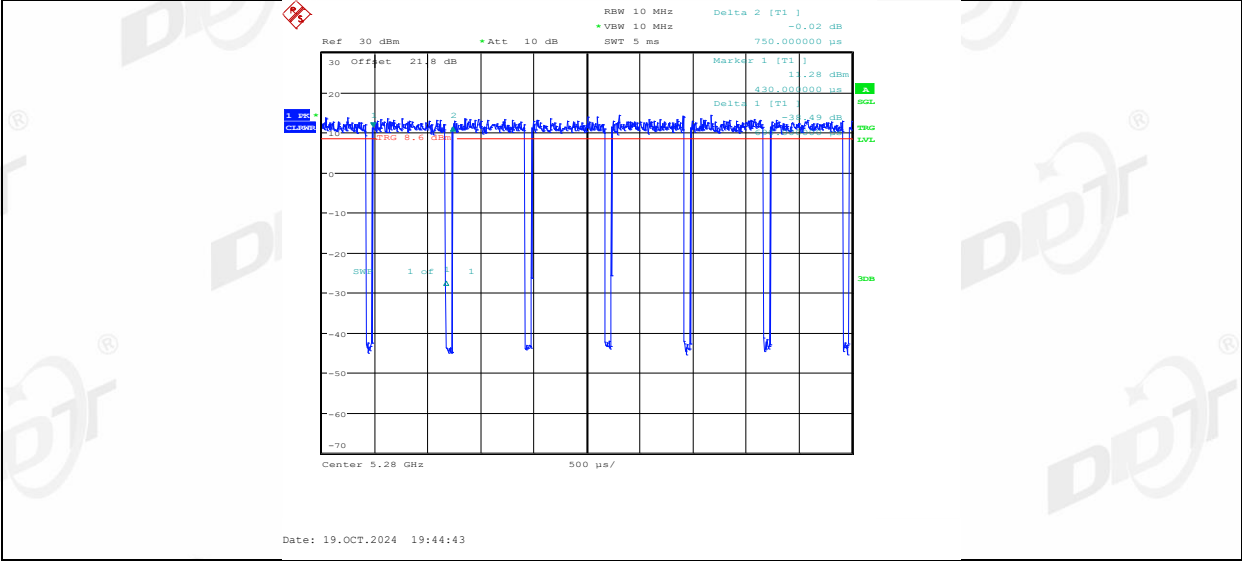
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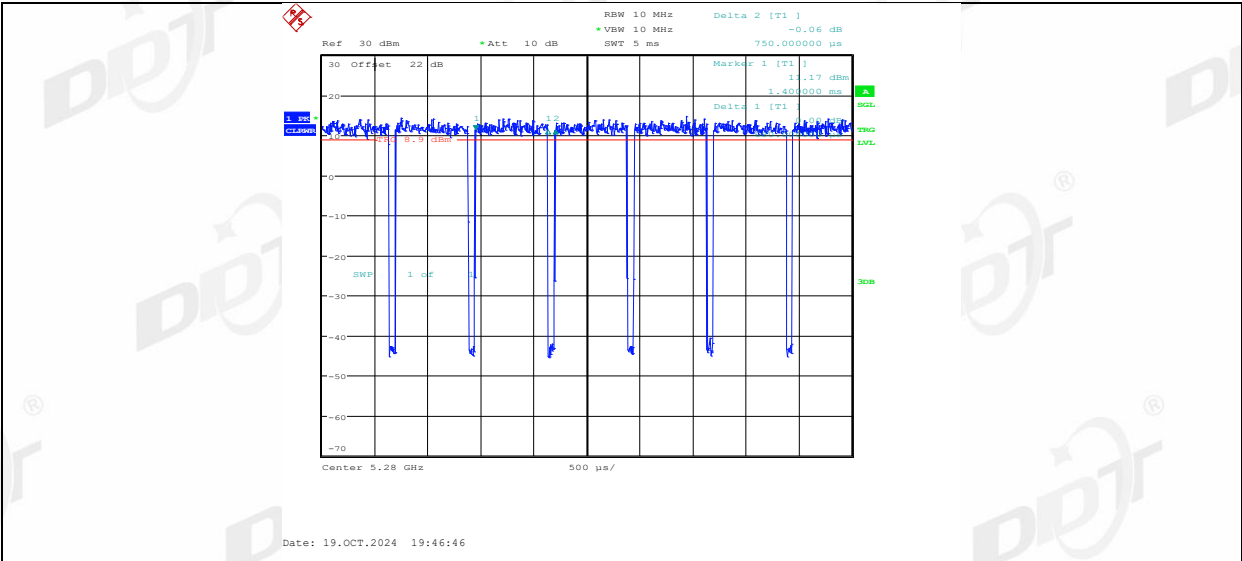
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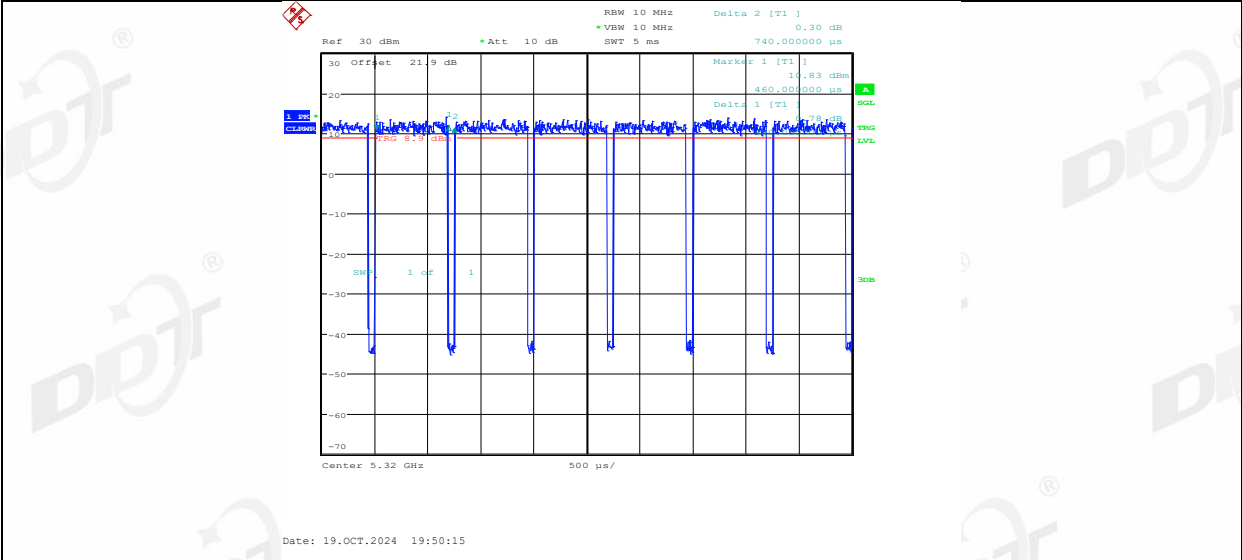
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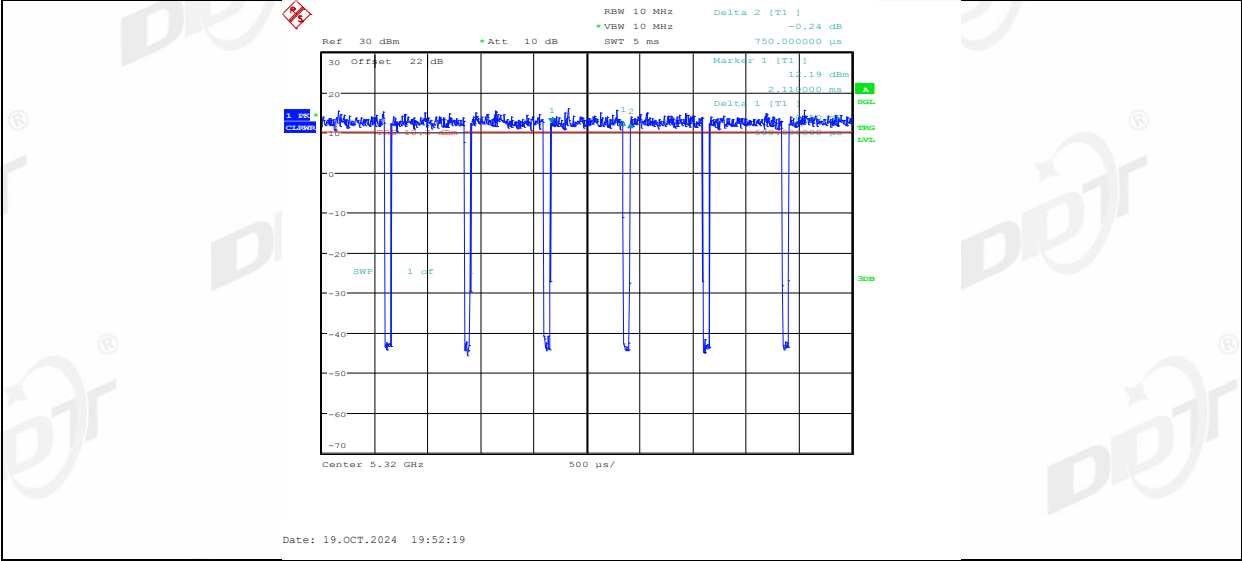
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11AC20MIMO\_Ant1\_5320



11AC20MIMO\_Ant2\_5320



11AC20MIMO\_Ant1\_5500



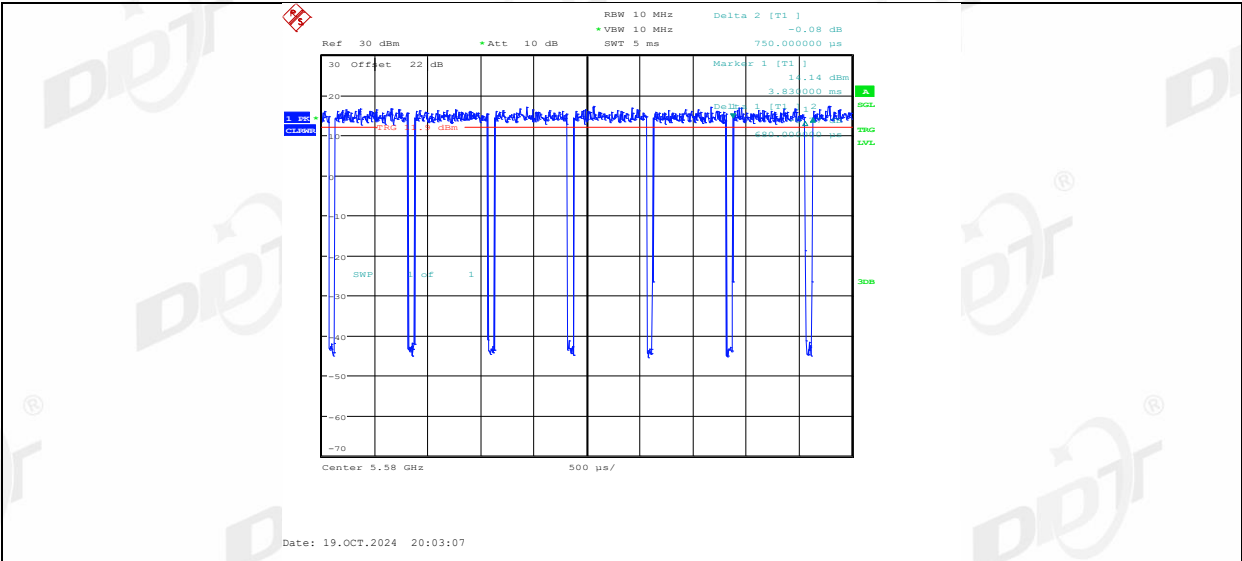
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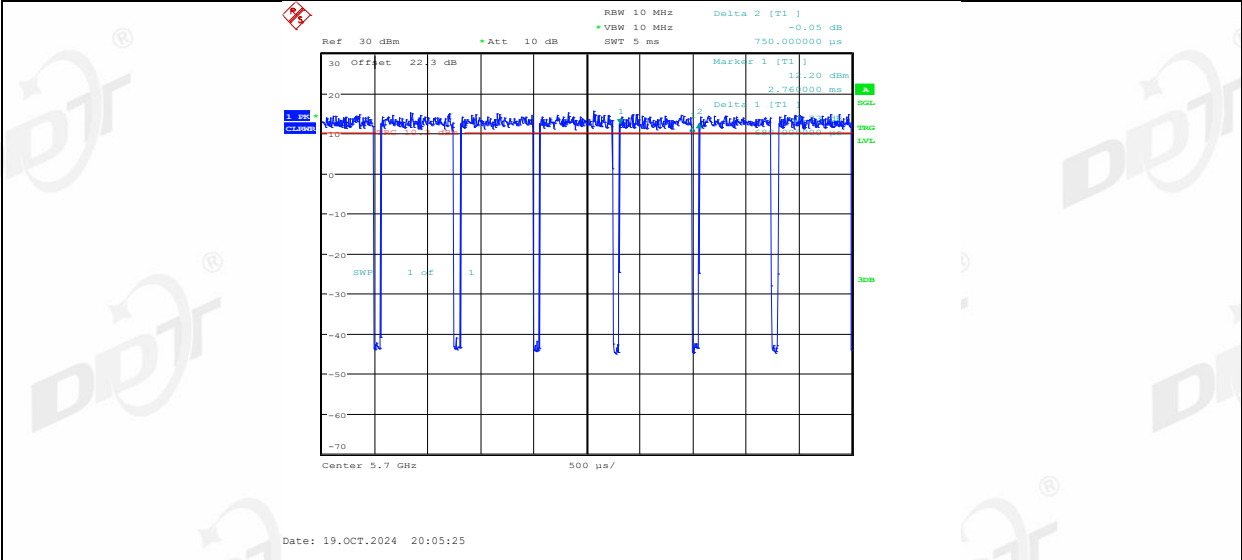
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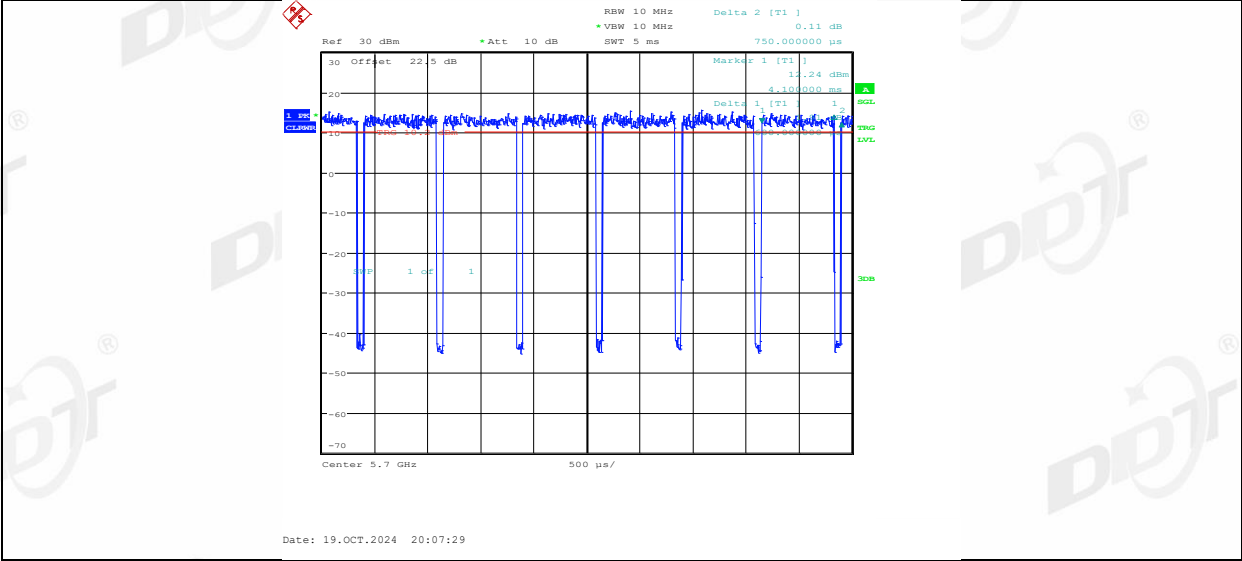
11AC20MIMO Ant2 5580



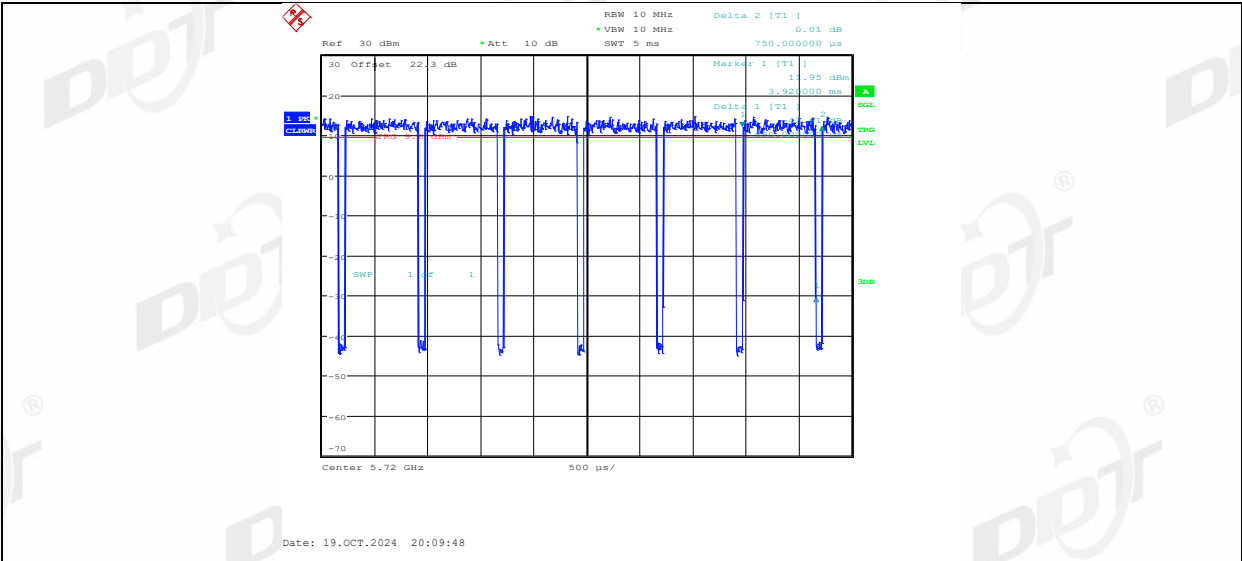
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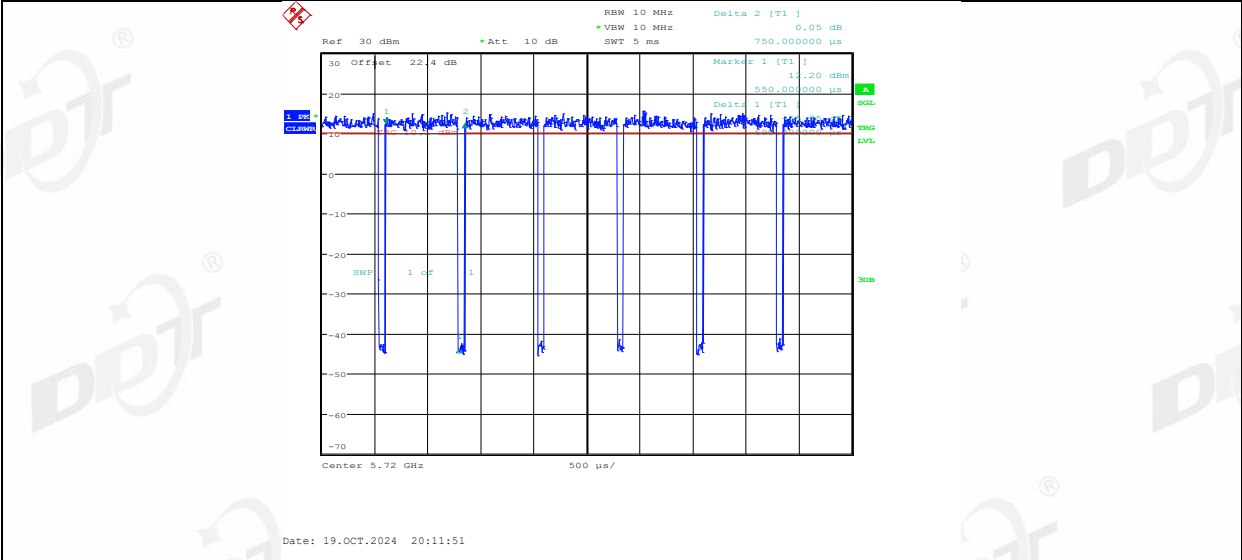
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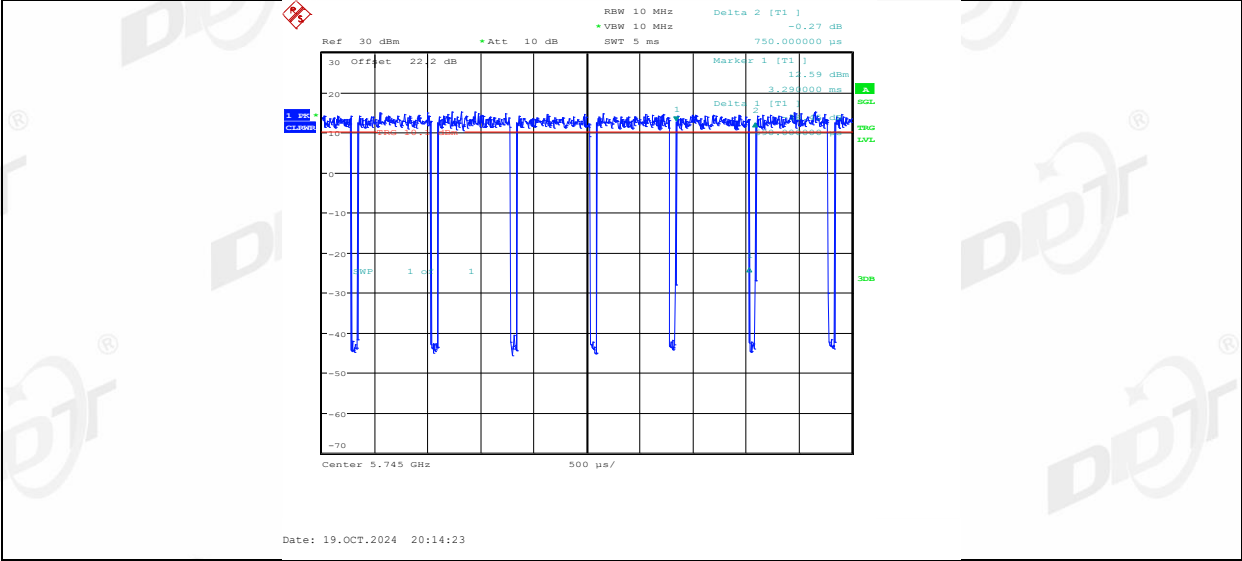
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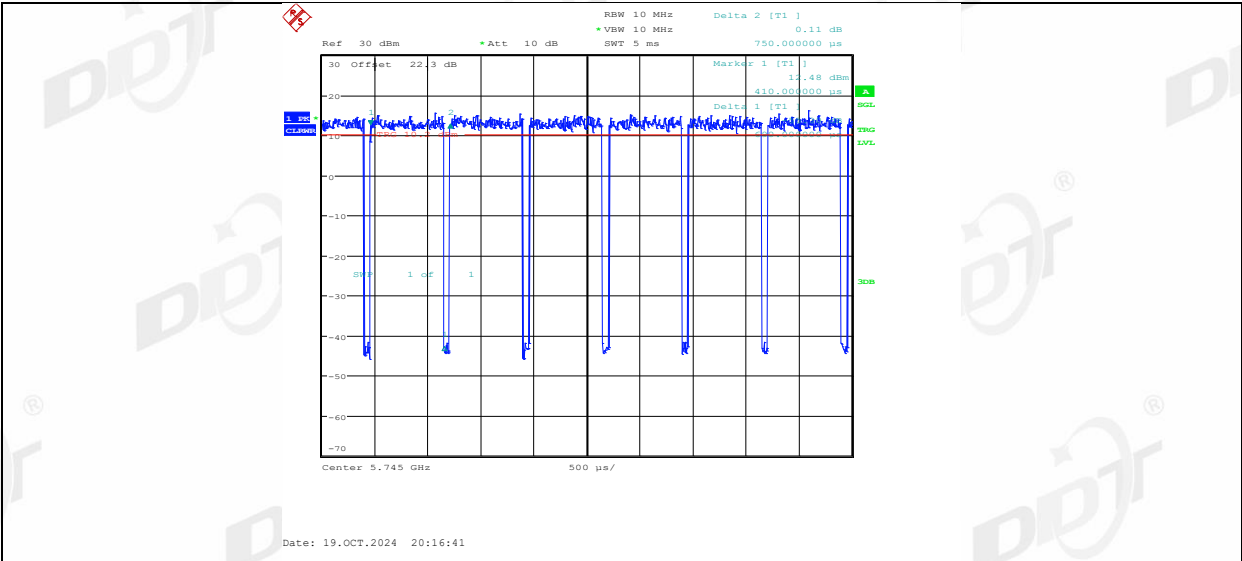
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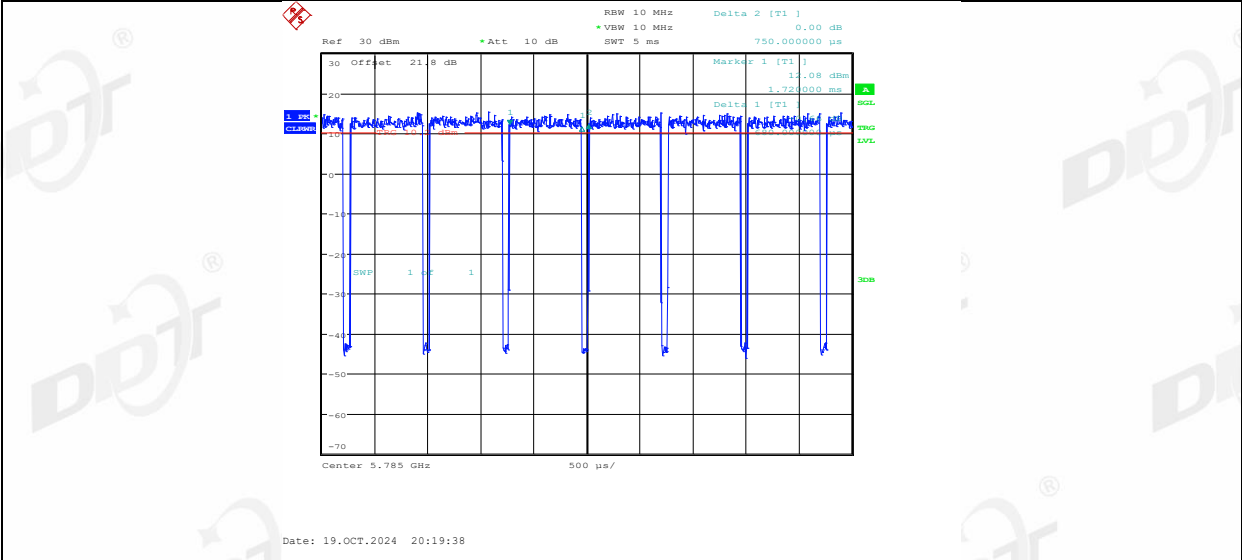
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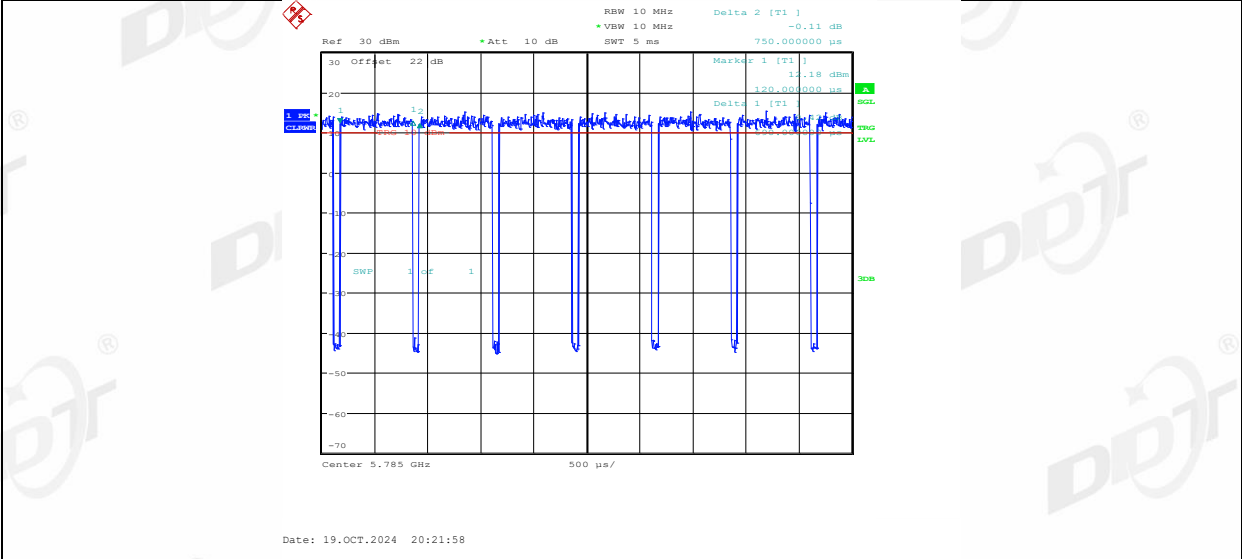
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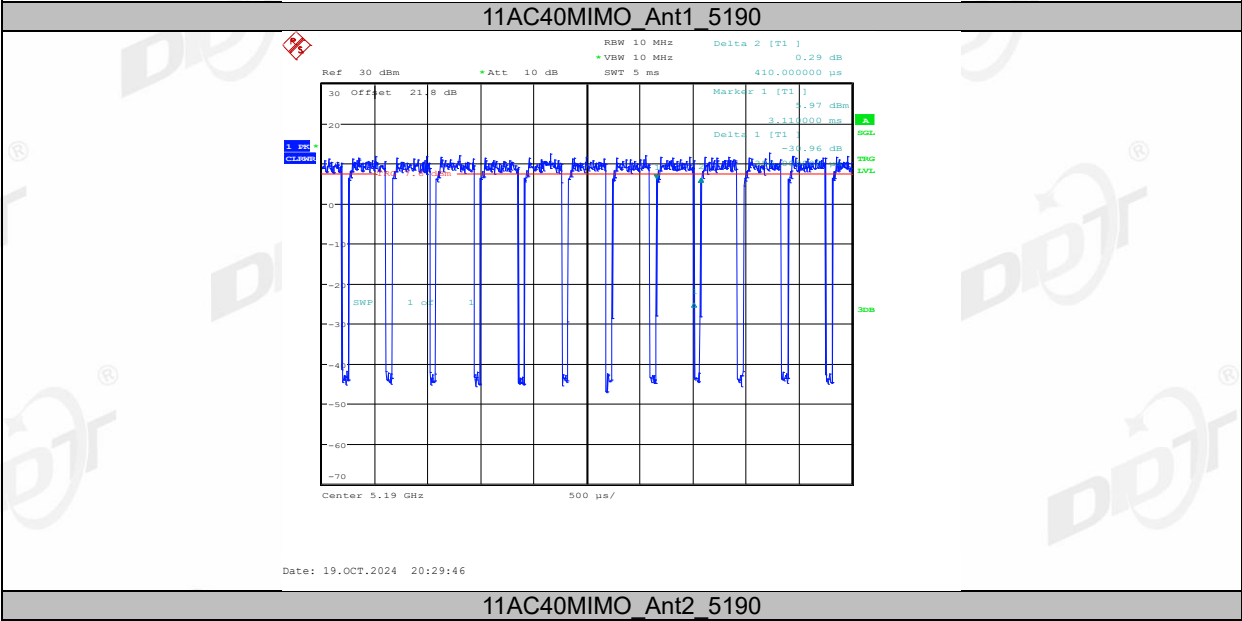
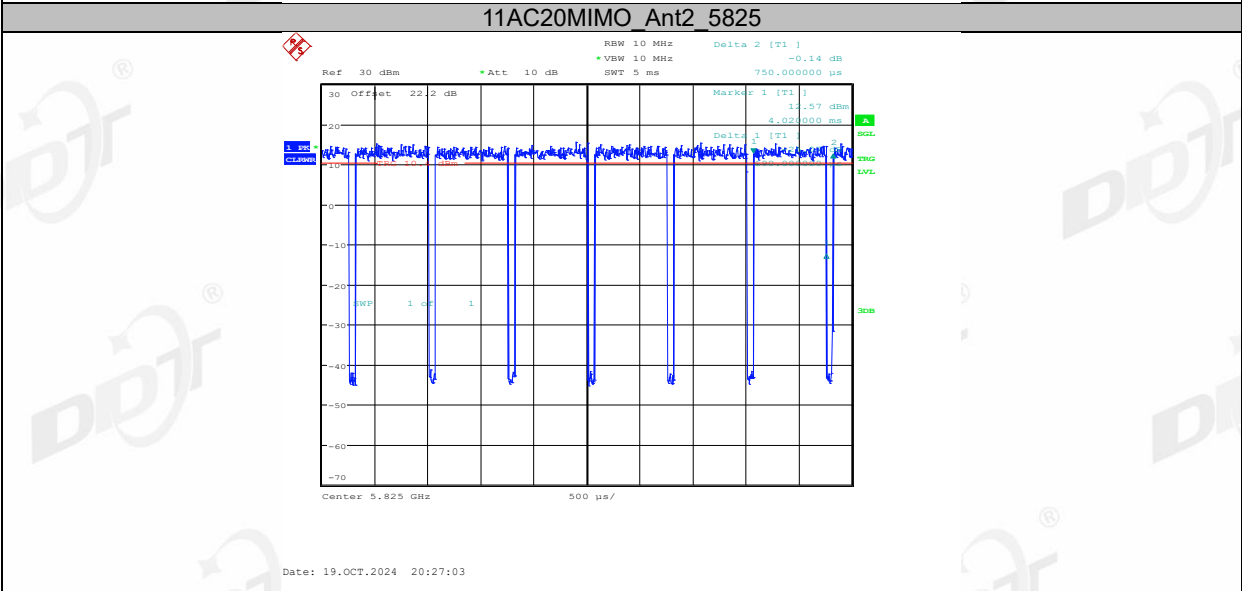
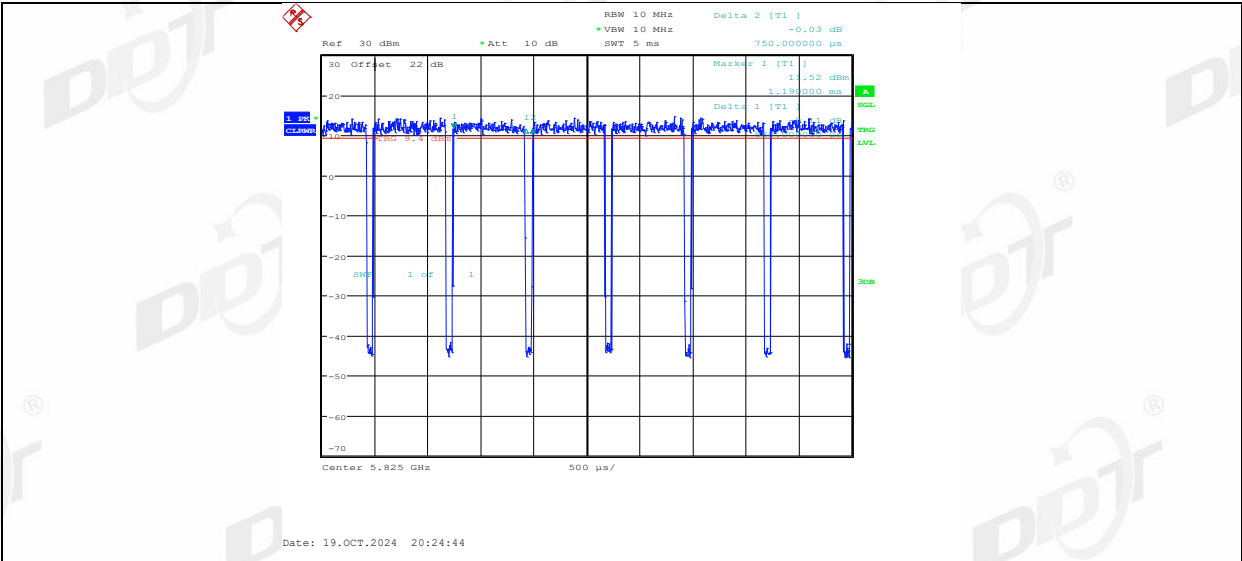
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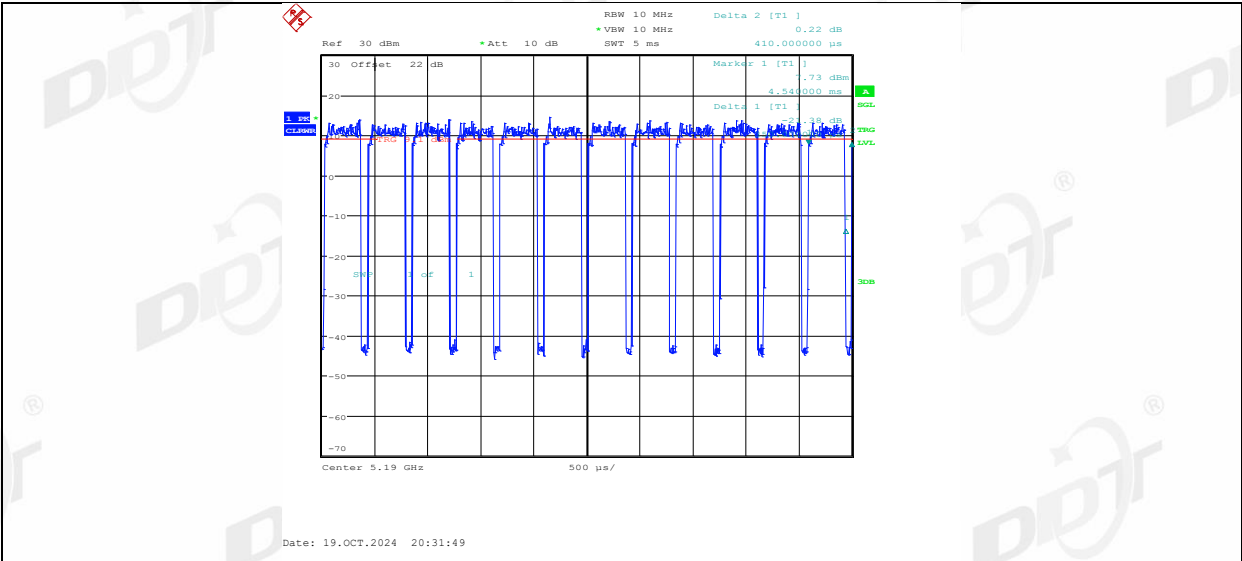


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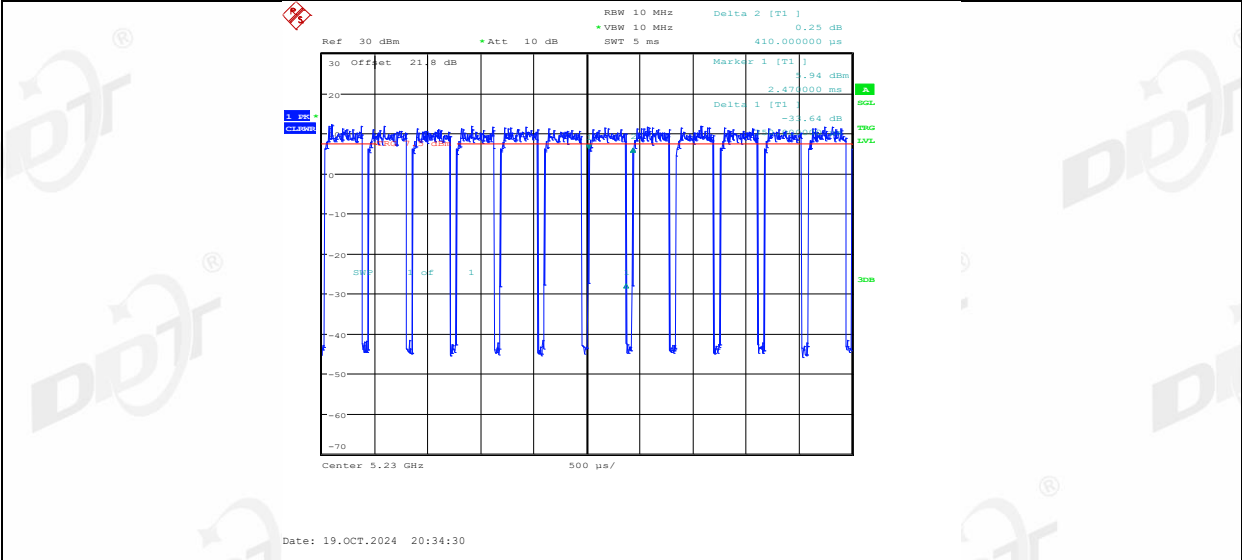


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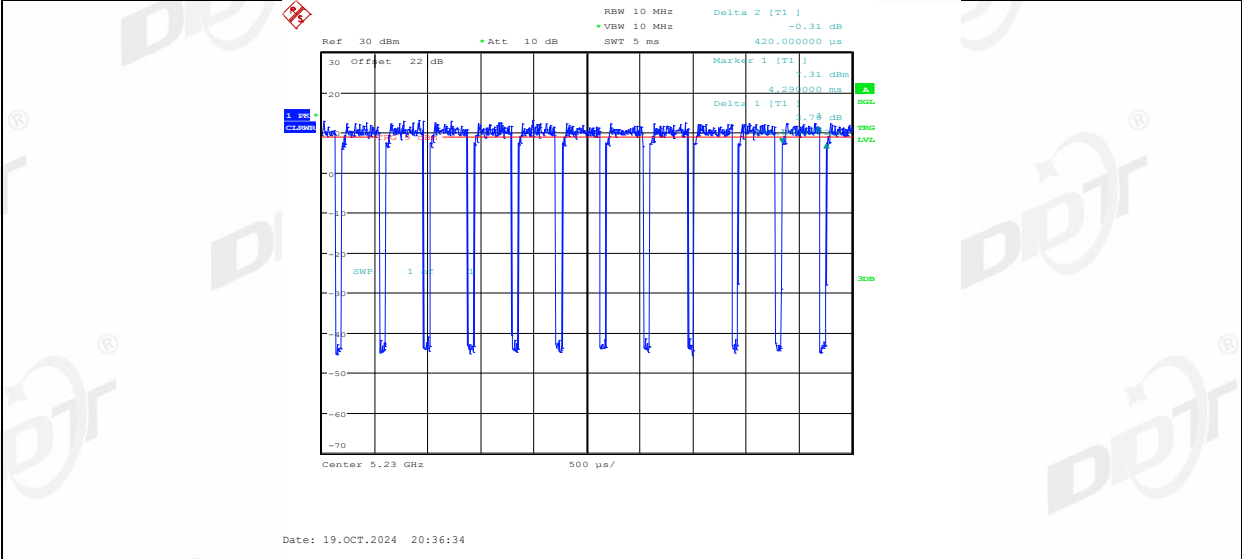




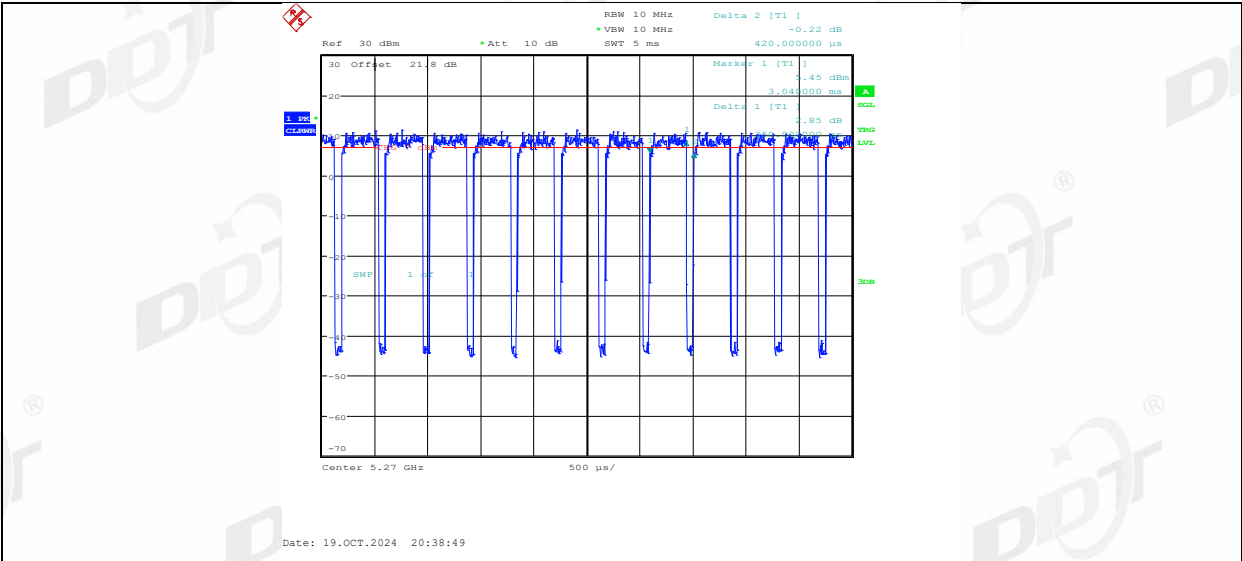
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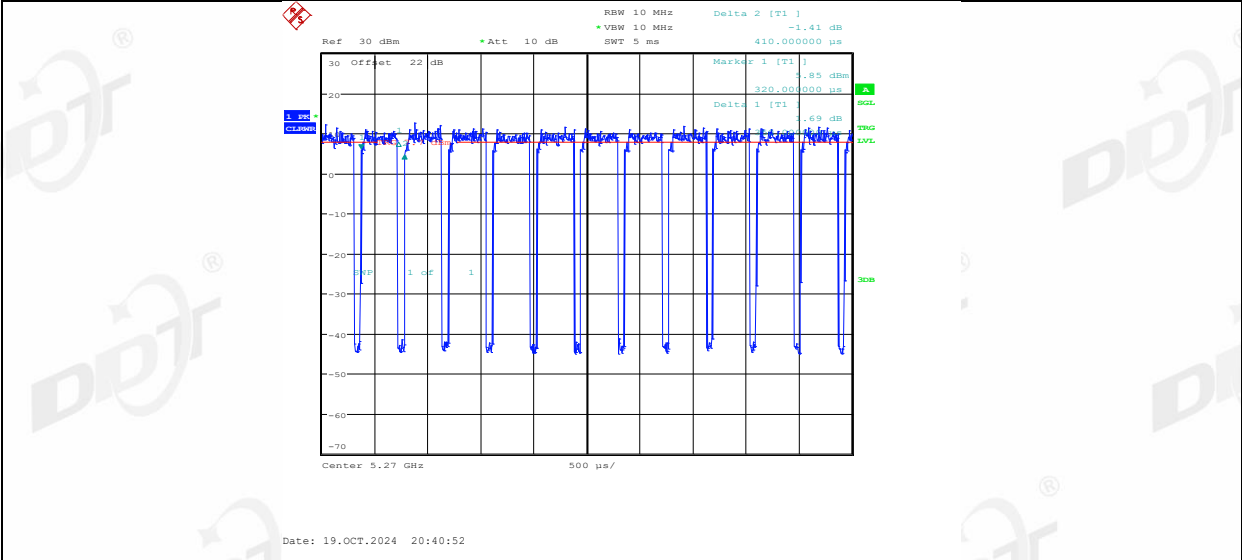
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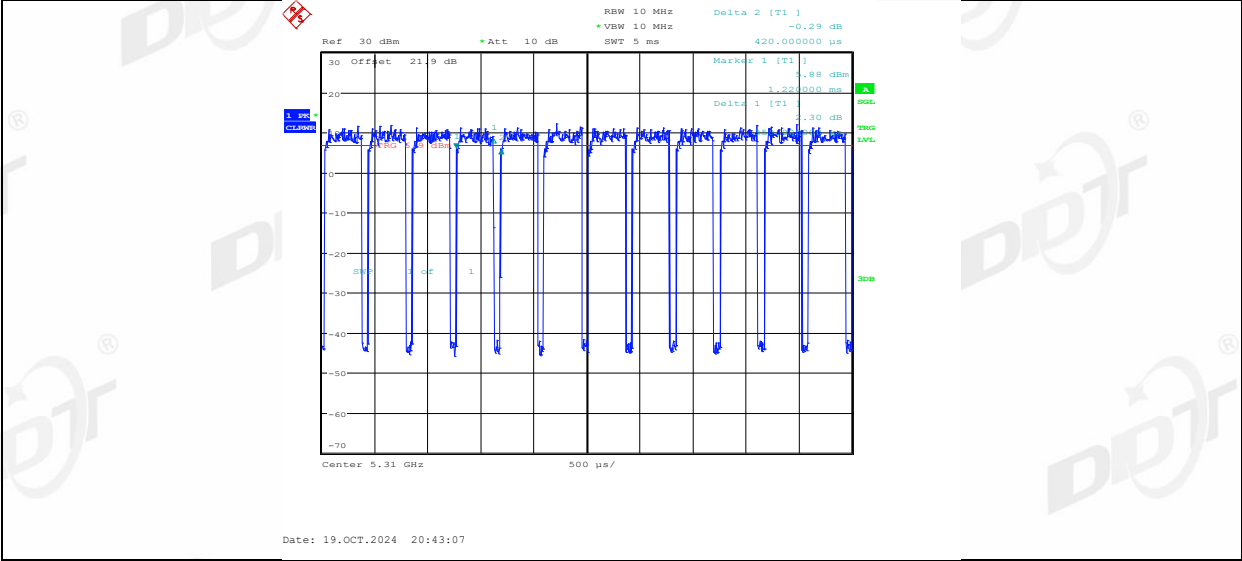
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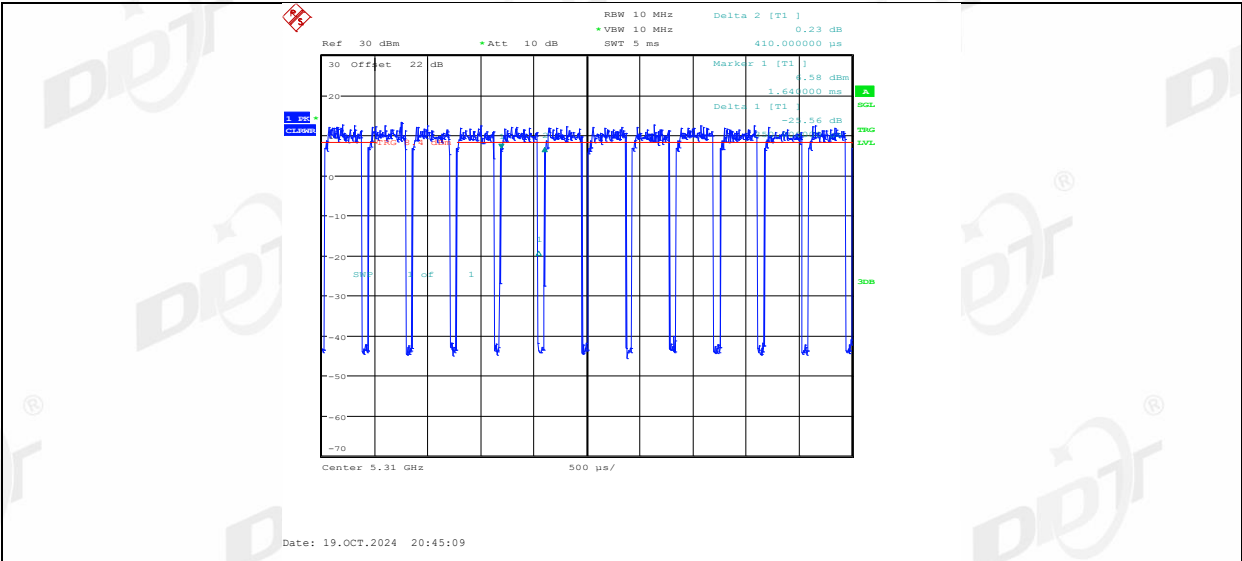
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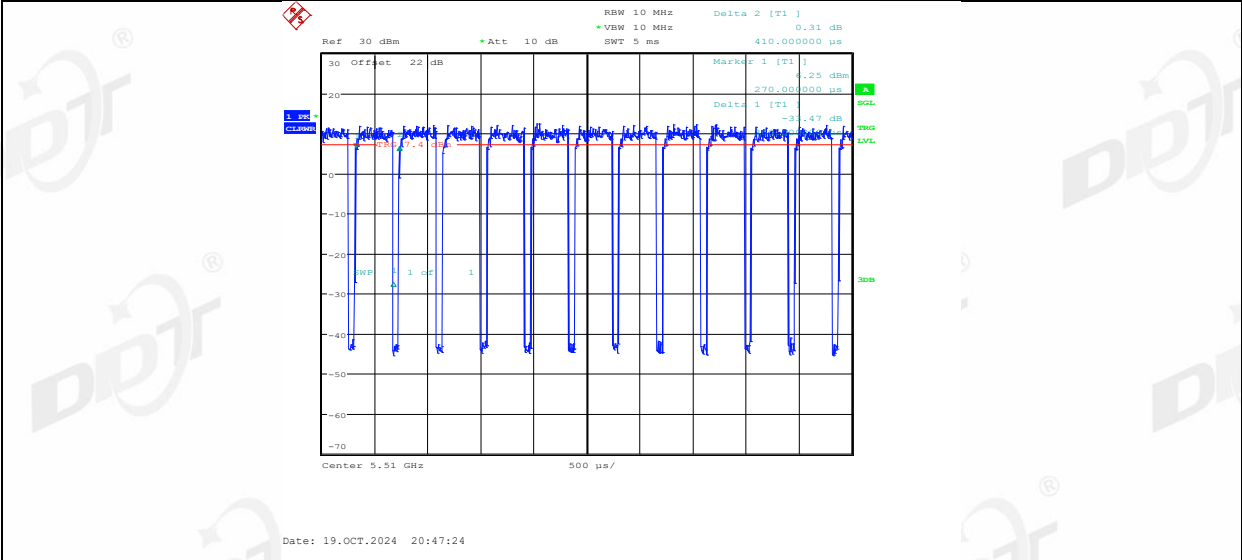
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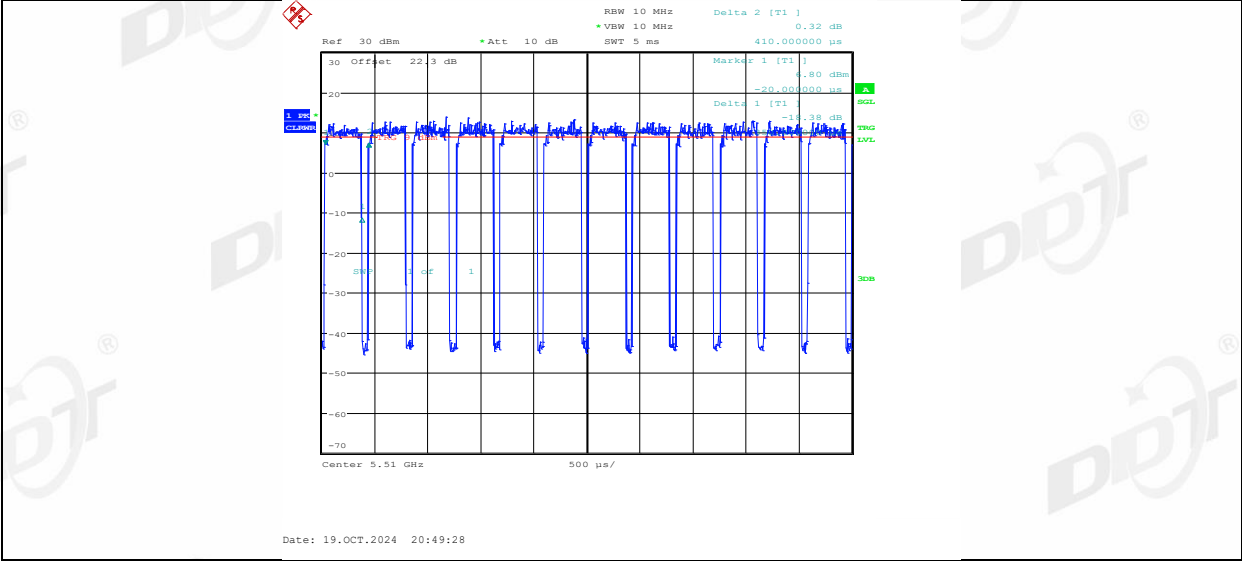
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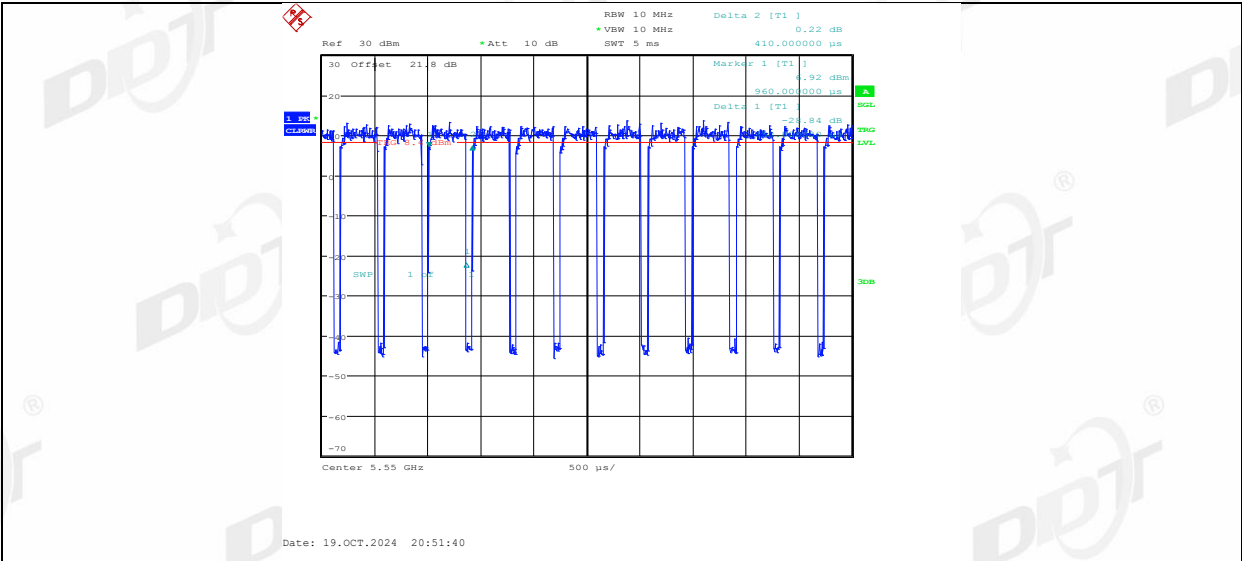
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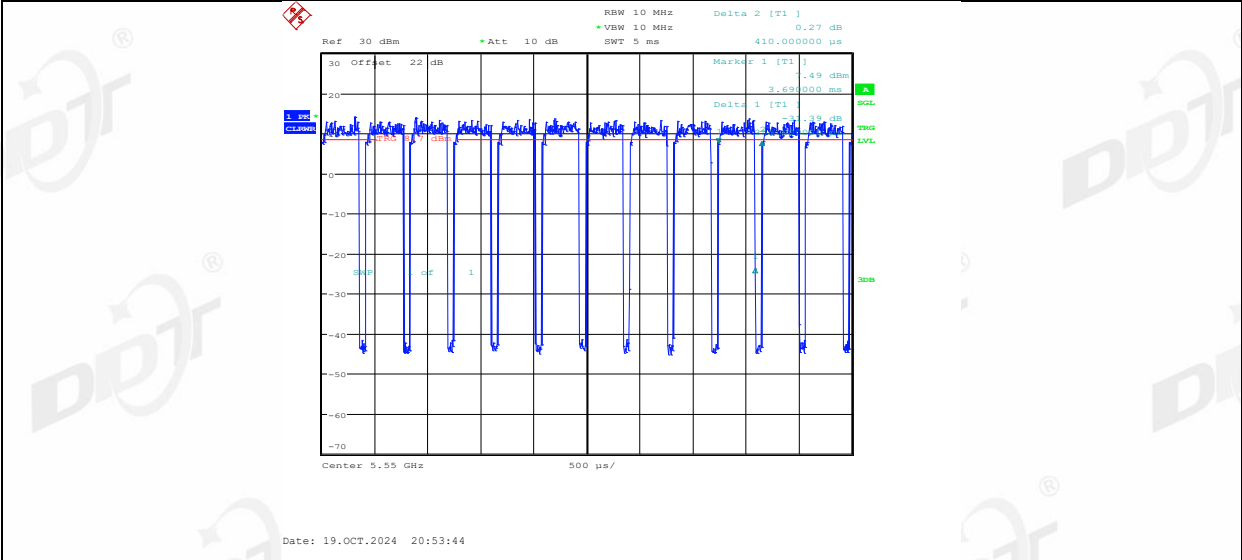
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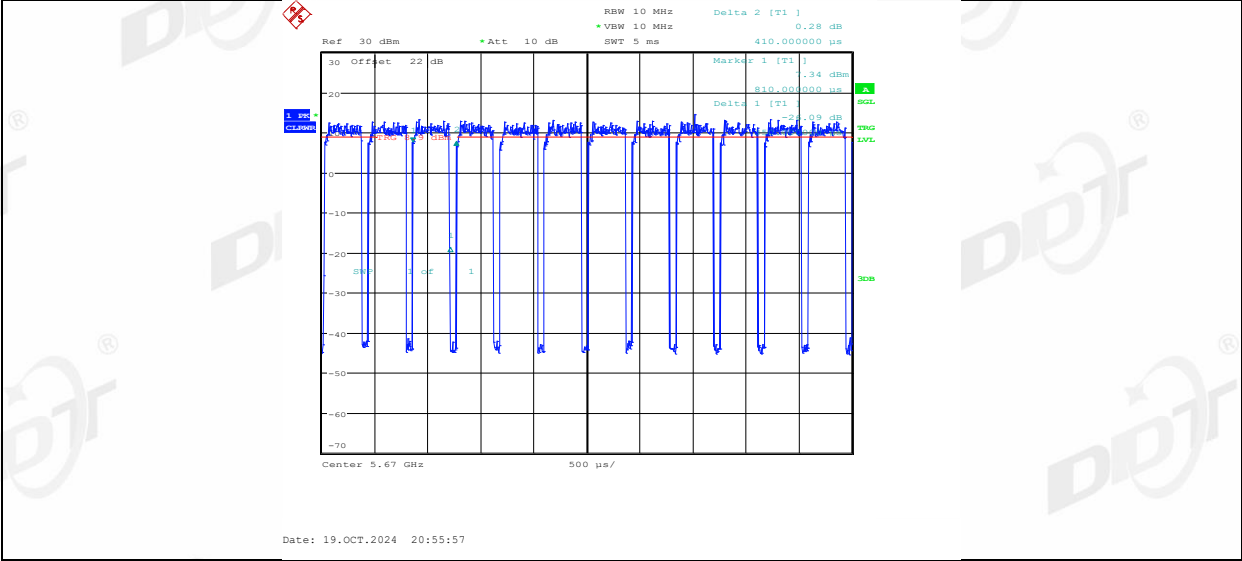
11AC40MIMO\_Ant1\_5550



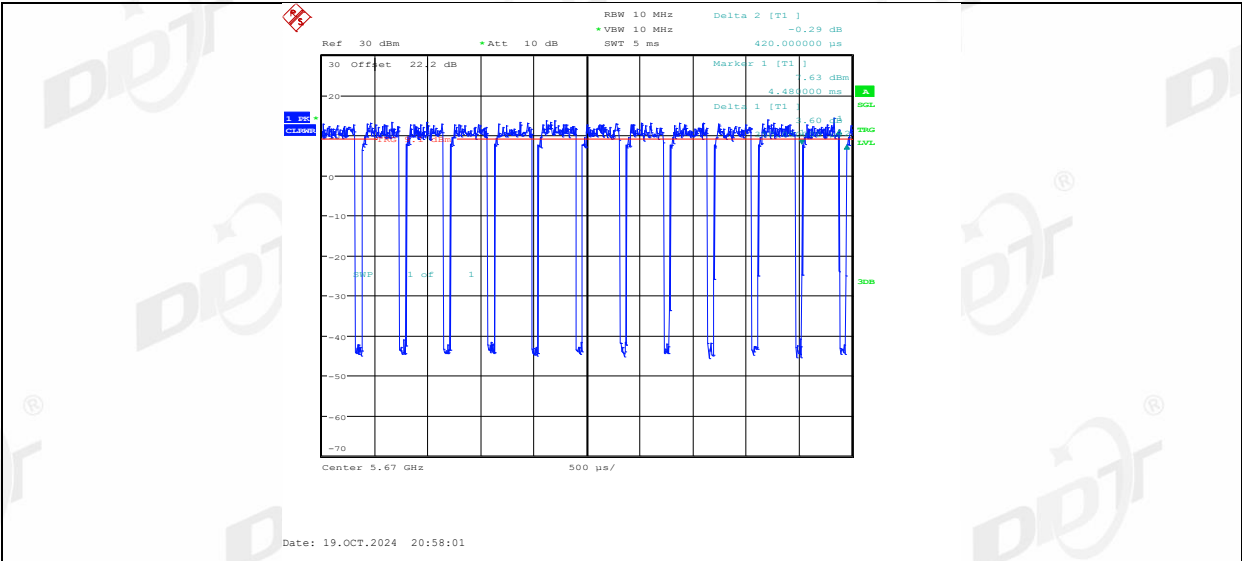
11AC40MIMO\_Ant2\_5550



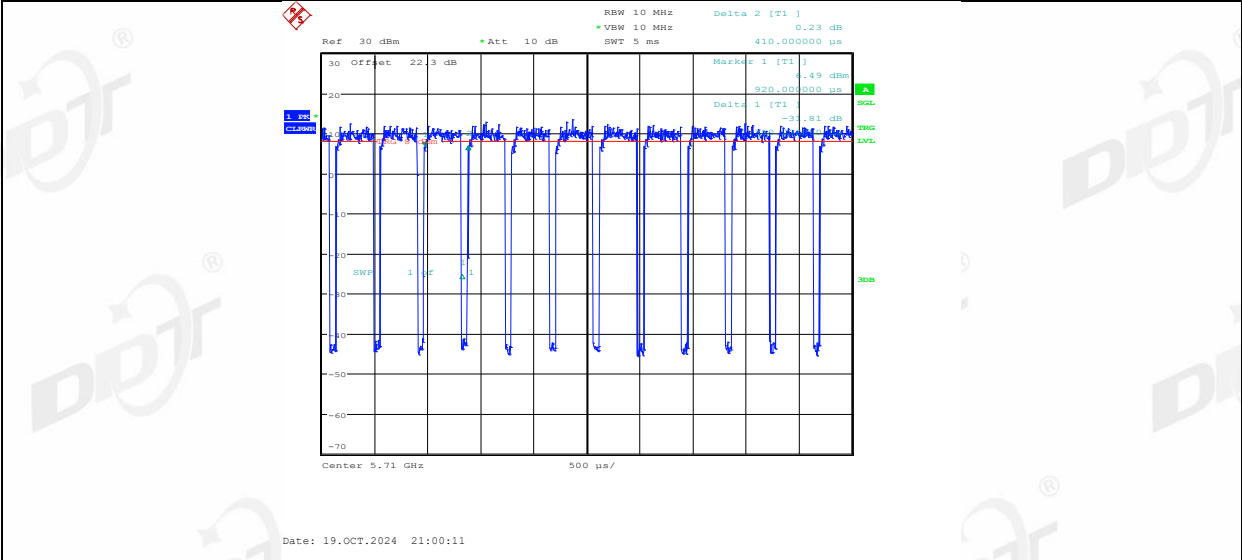
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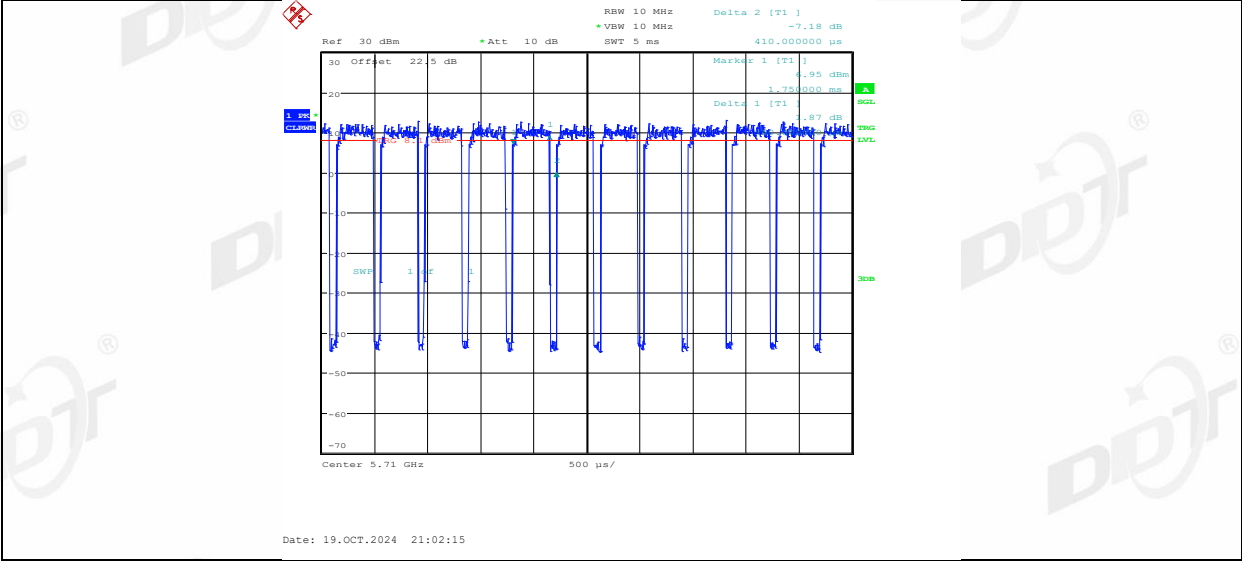
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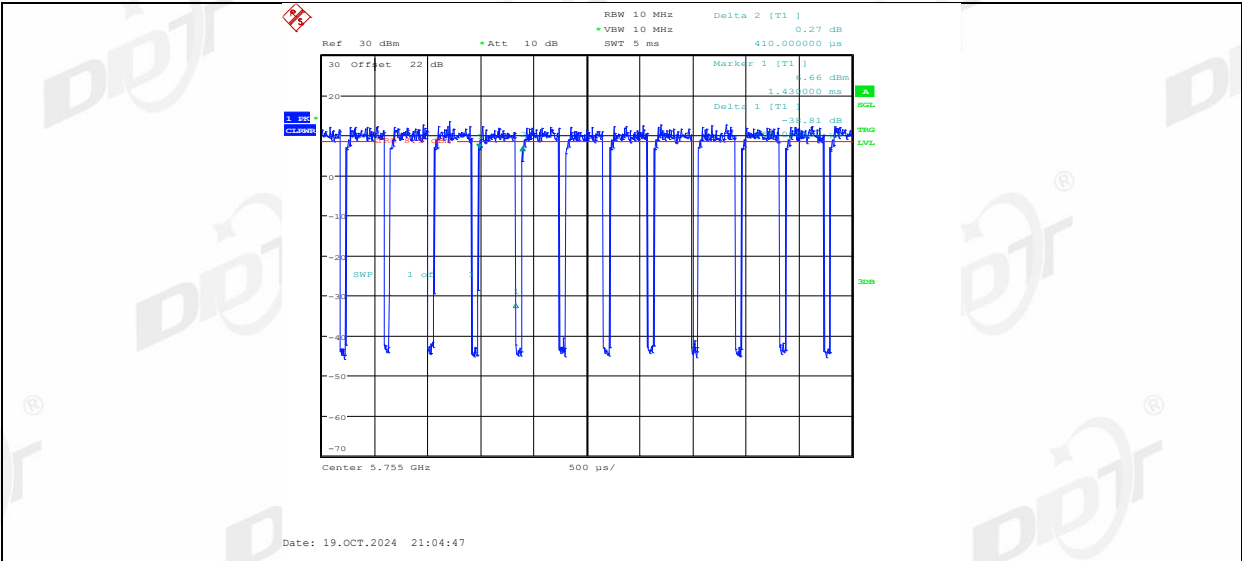
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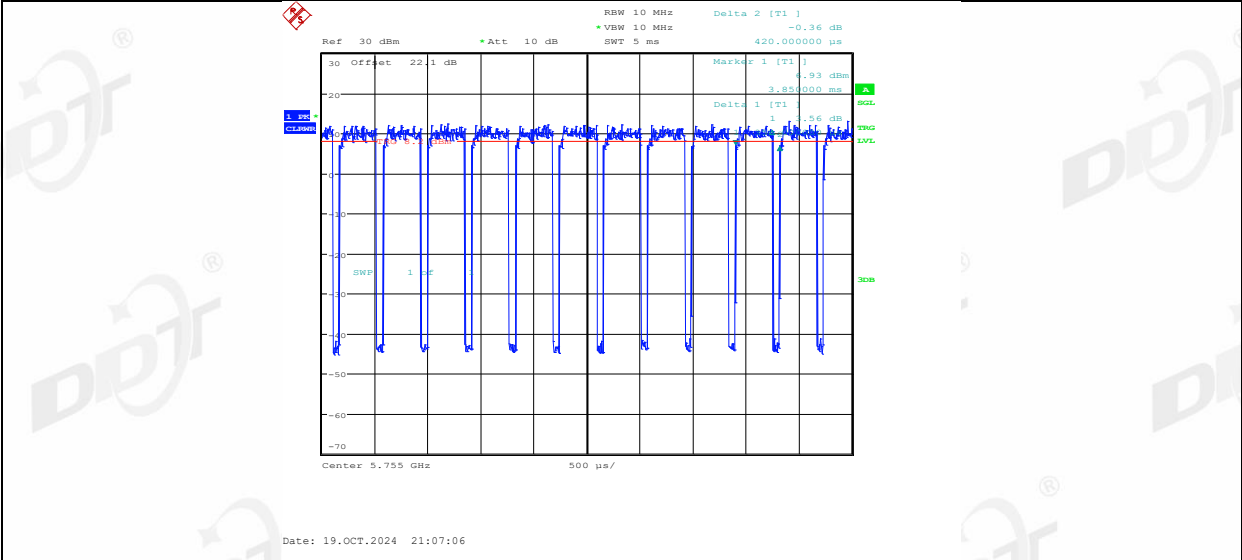
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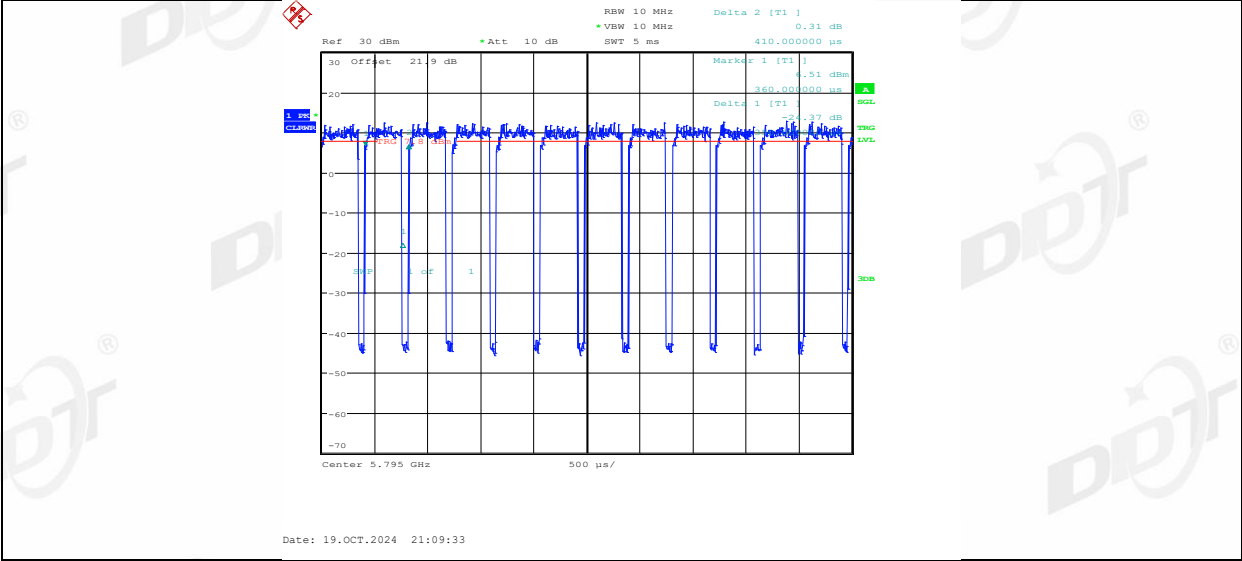
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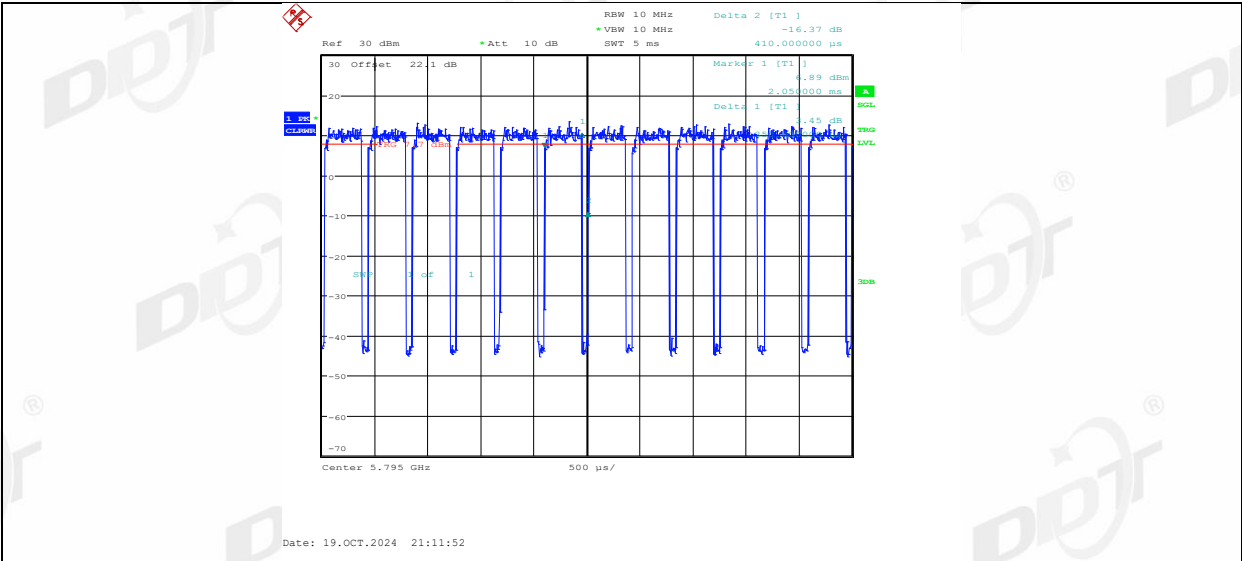
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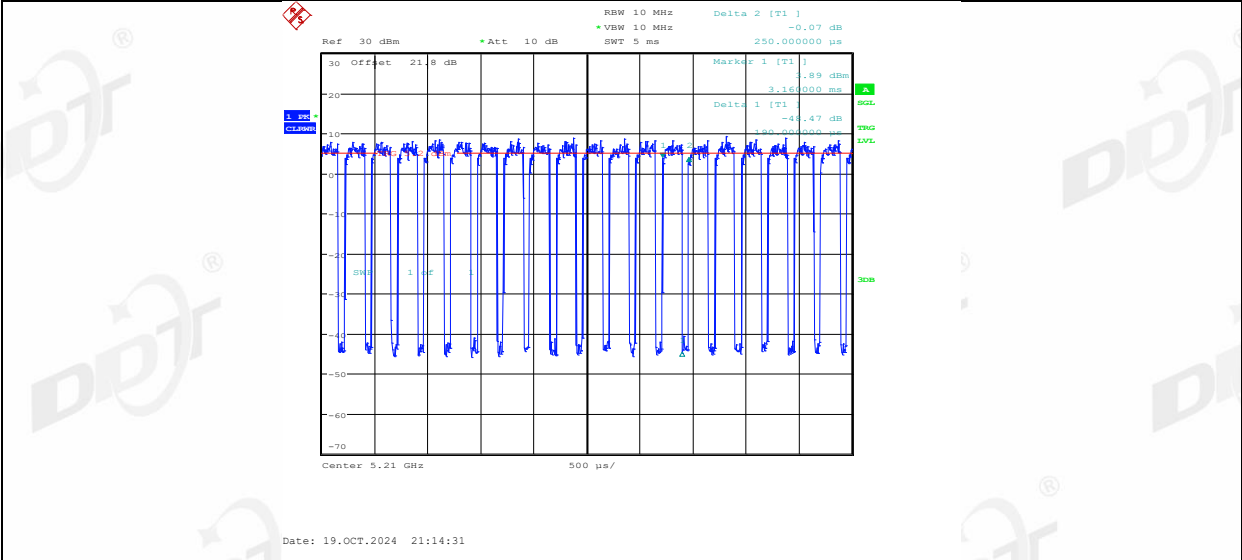
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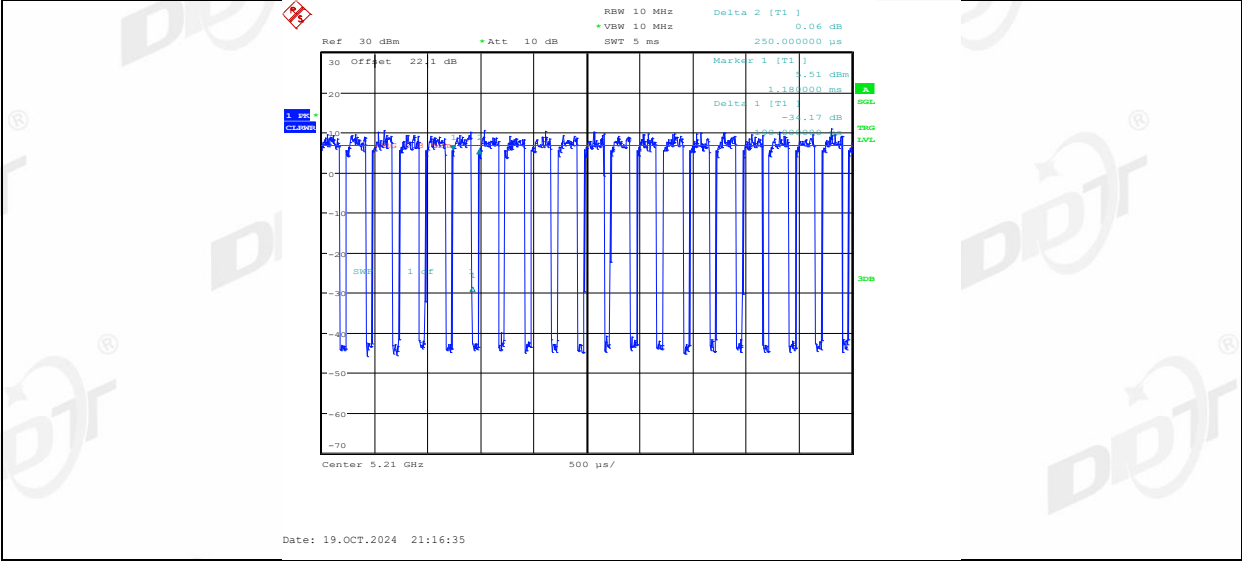
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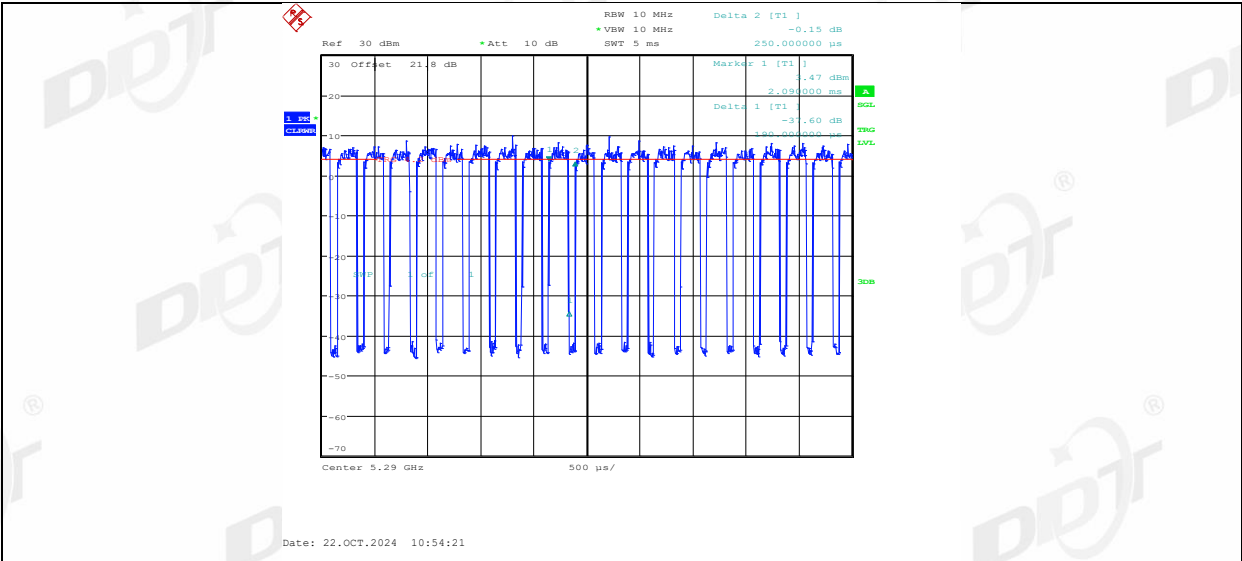
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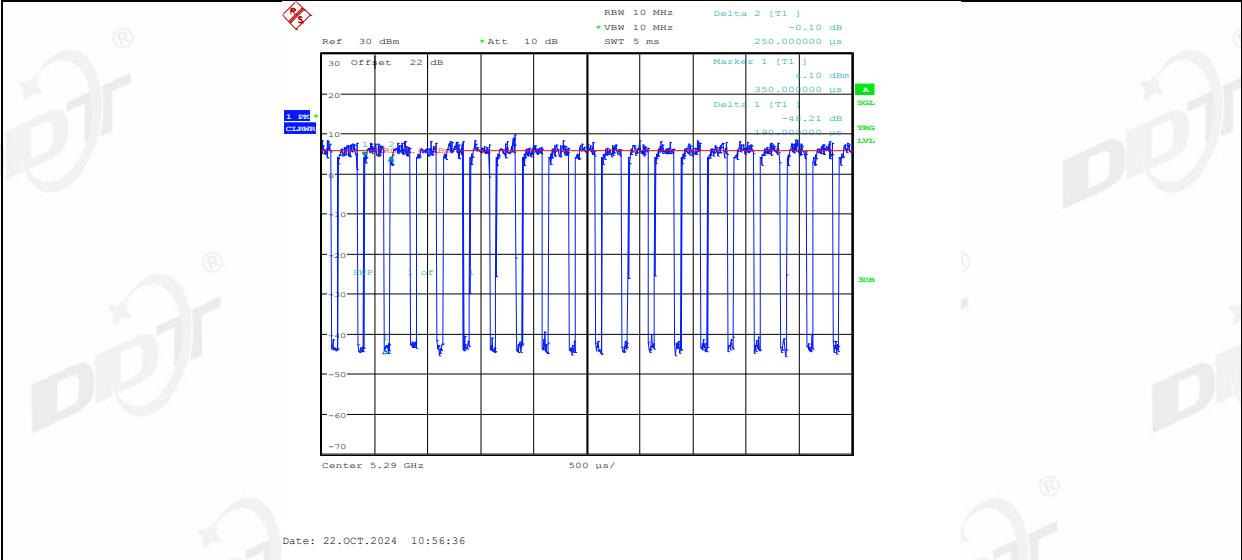
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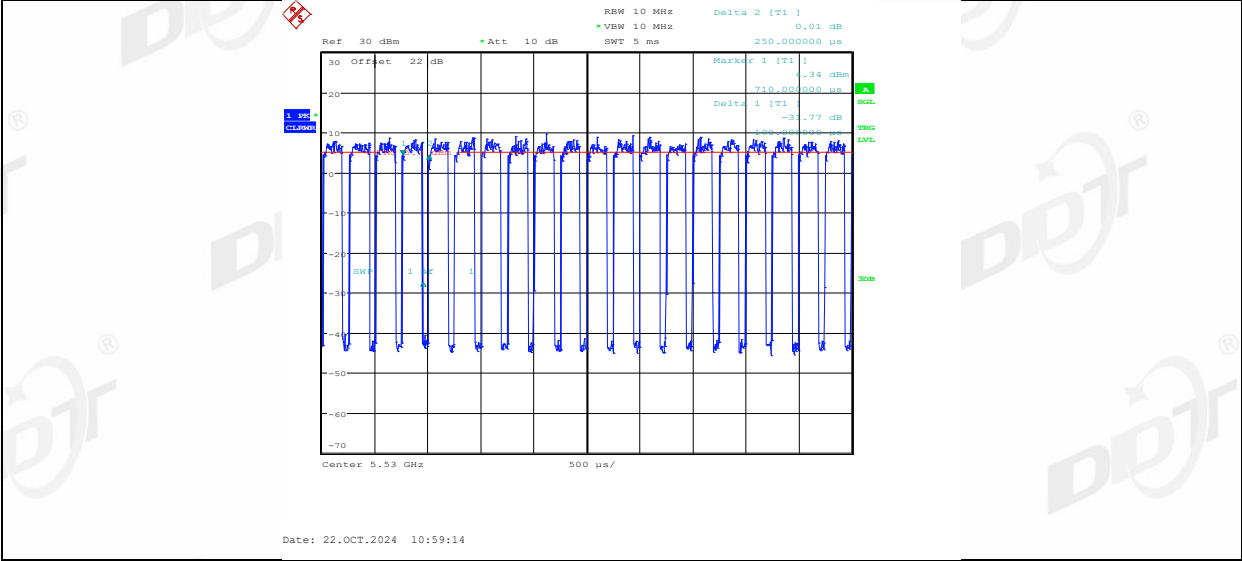
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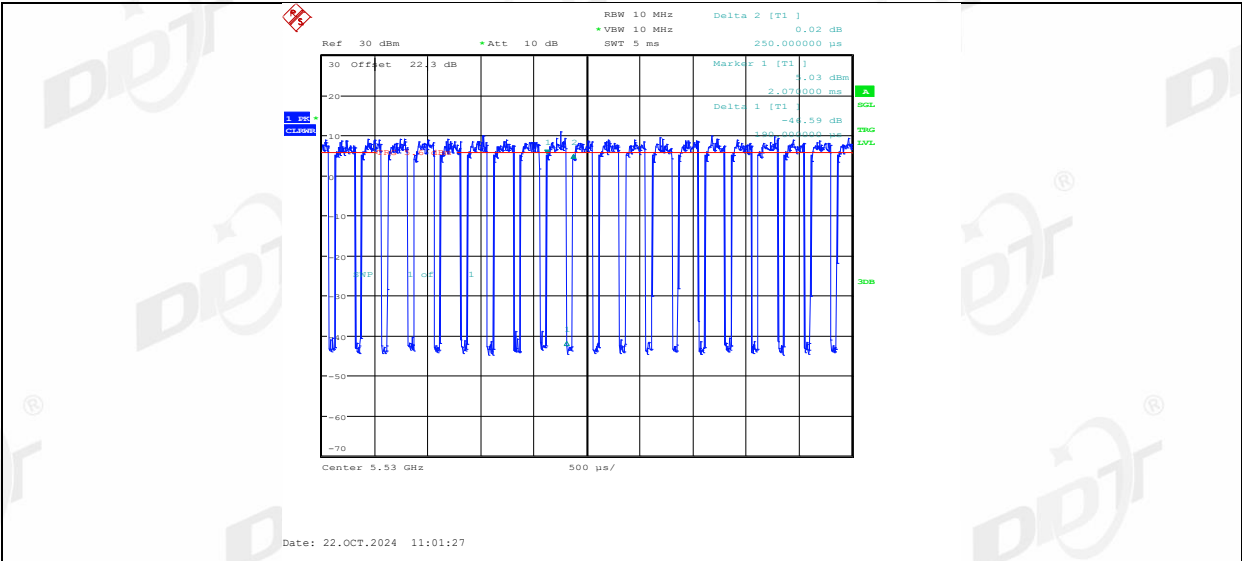
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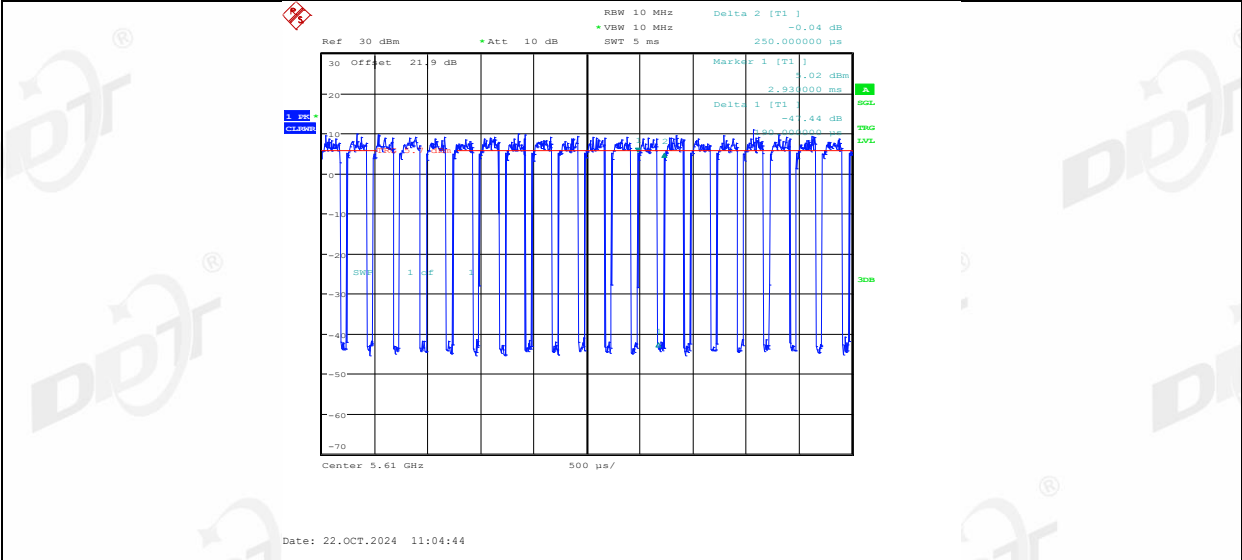
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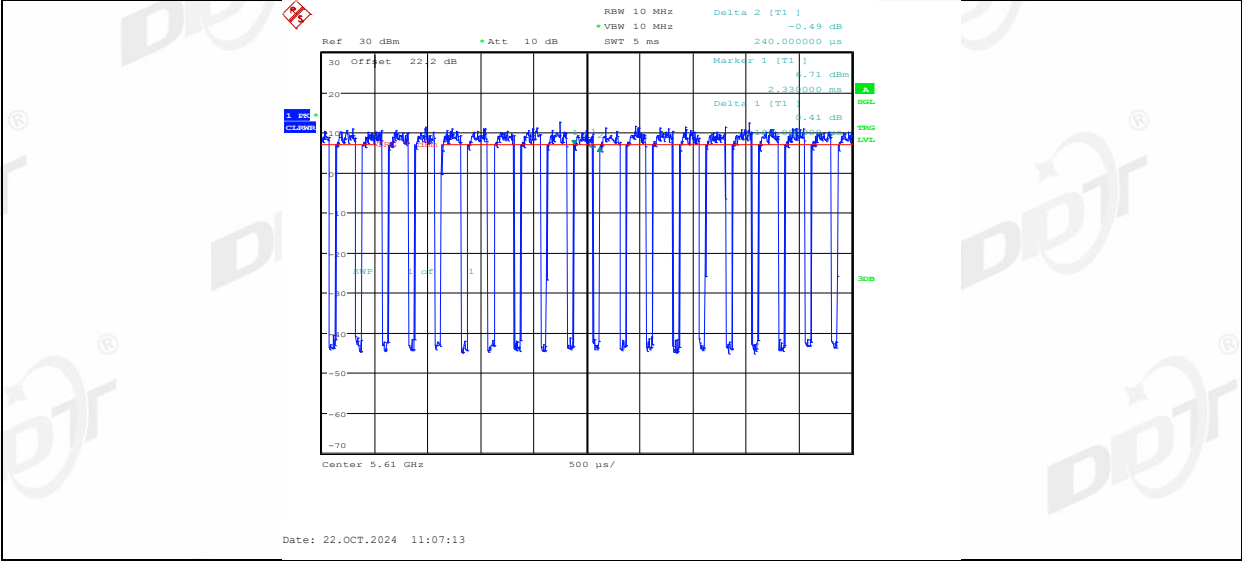
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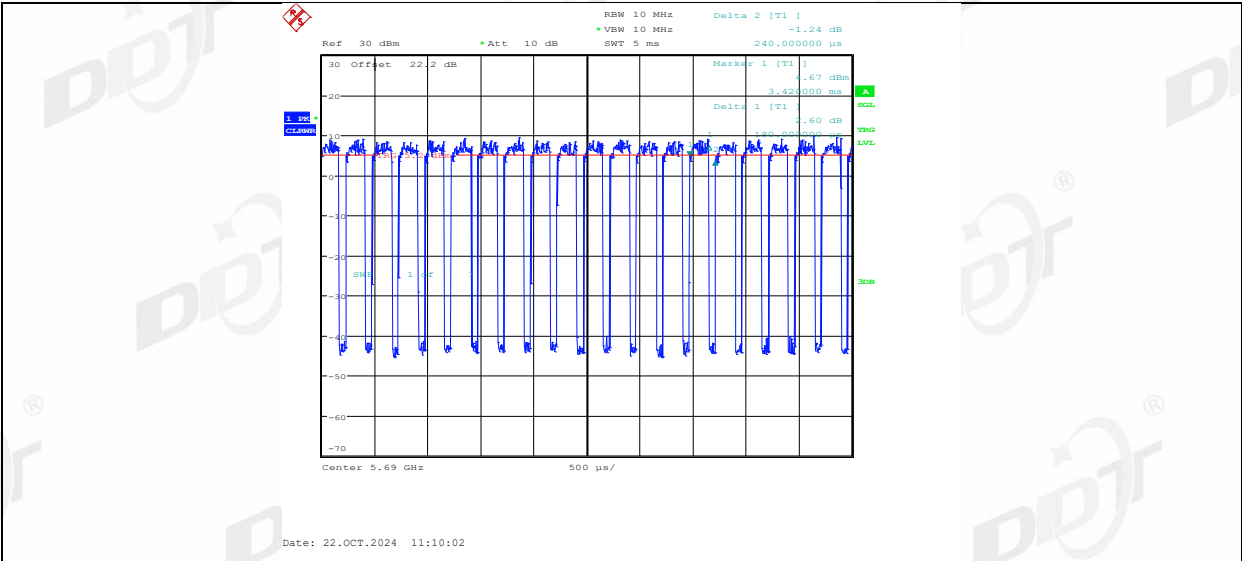
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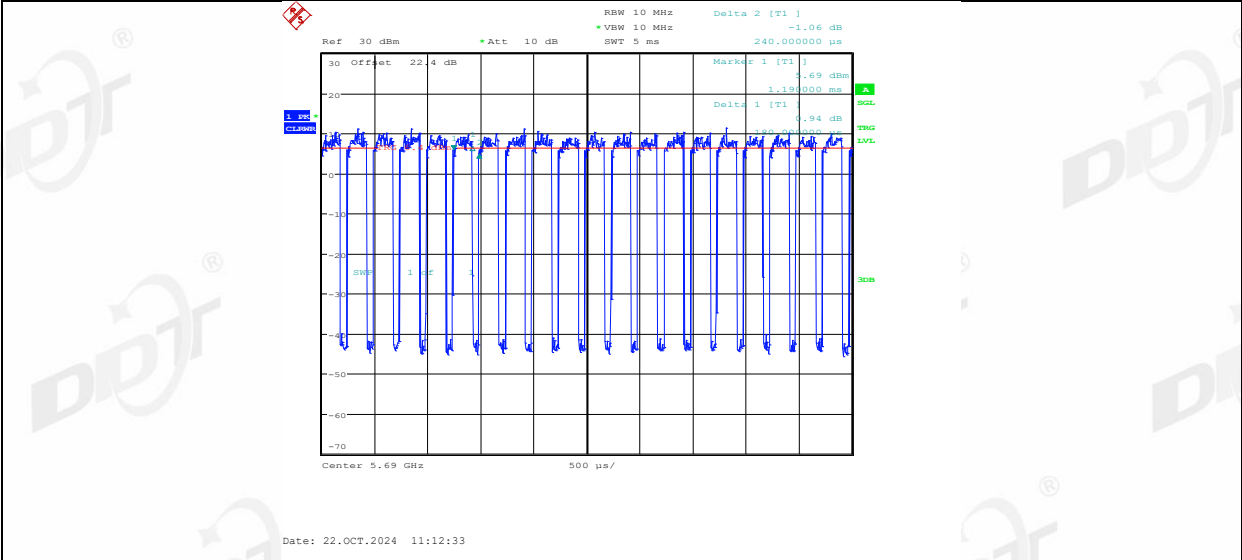
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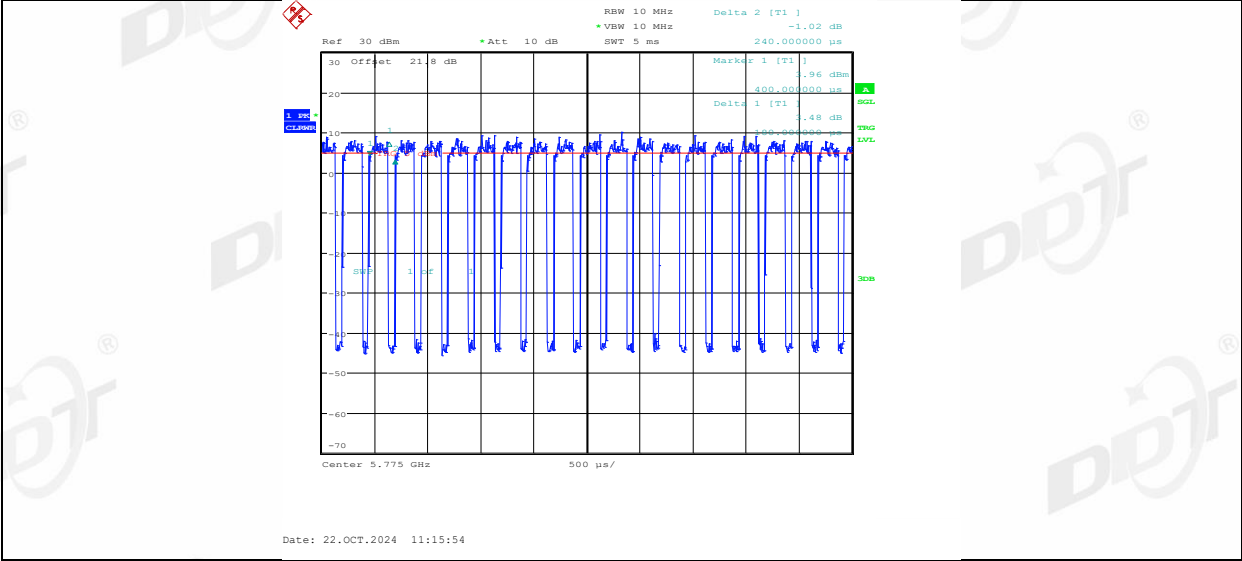
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11AC80MIMO\_Ant2\_5690



11AC80MIMO\_Ant1\_5775



11AC80MIMO\_Ant2\_5775

