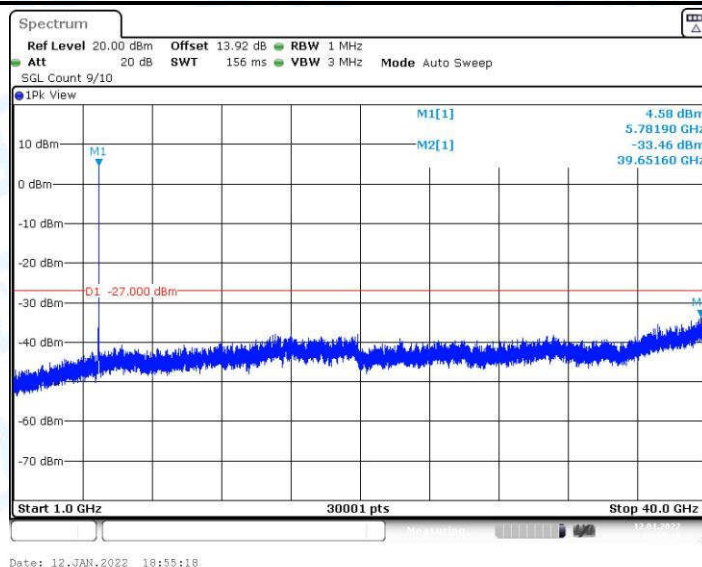
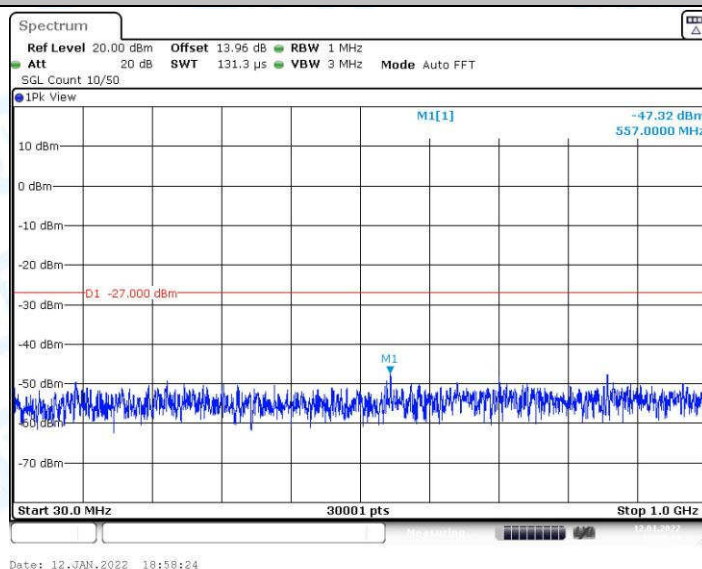
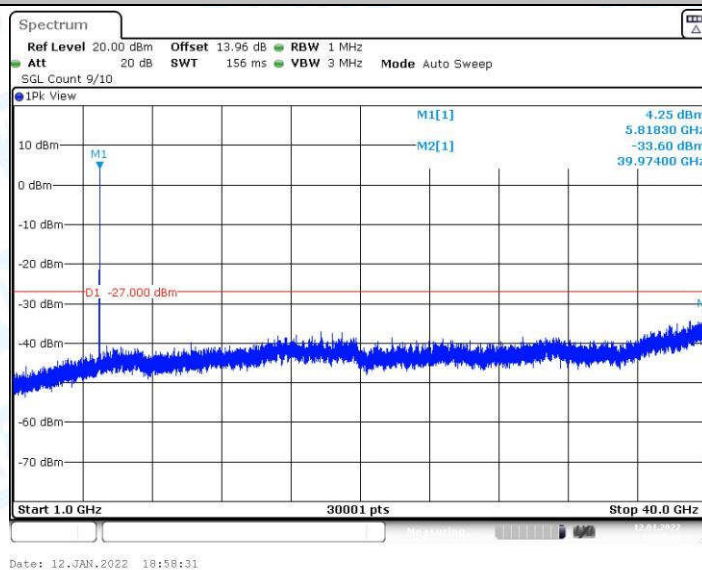




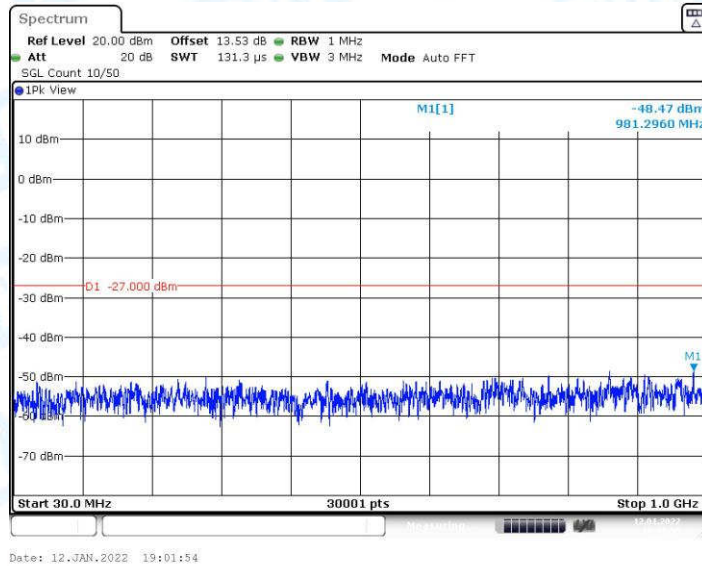
11A\_Ant1\_5785\_1000~40000



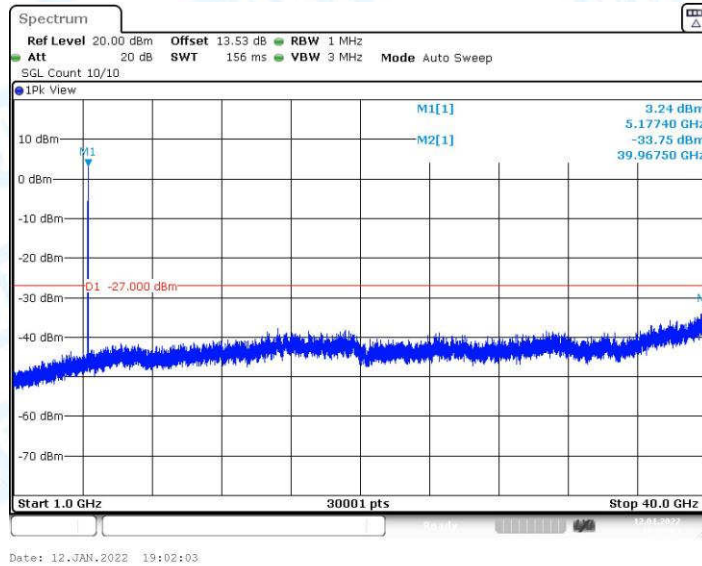
11A\_Ant1\_5825\_30~1000



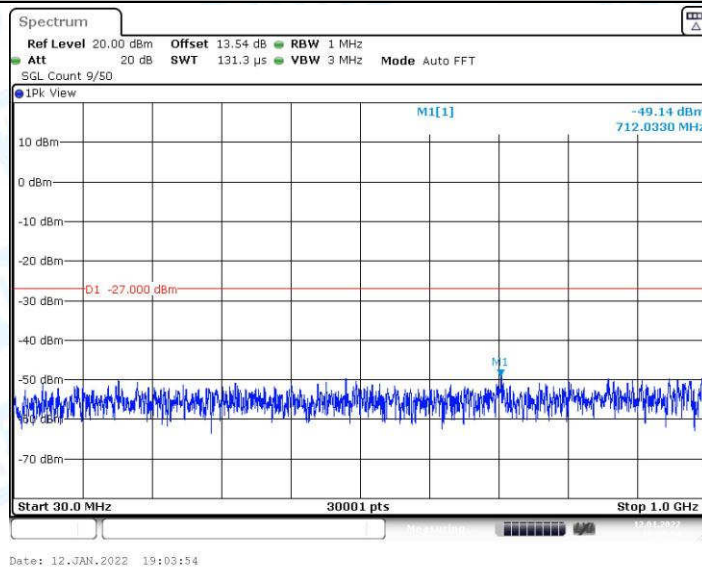
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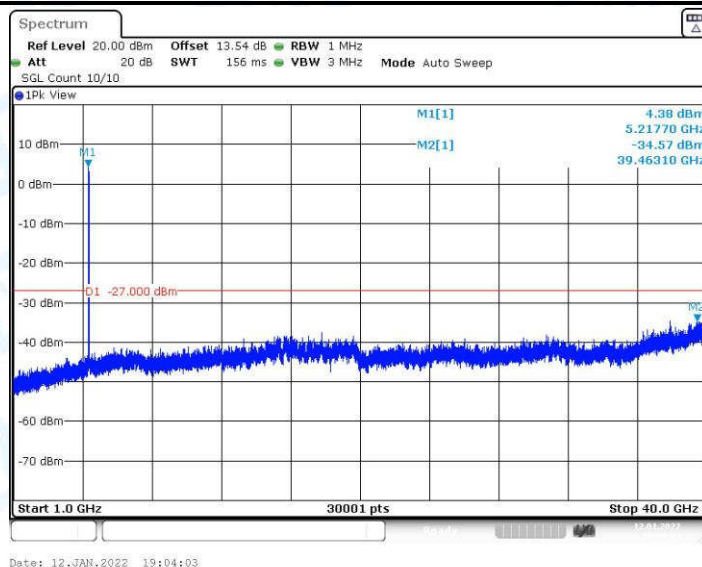
11N20SISO\_Ant1\_5180\_30~1000



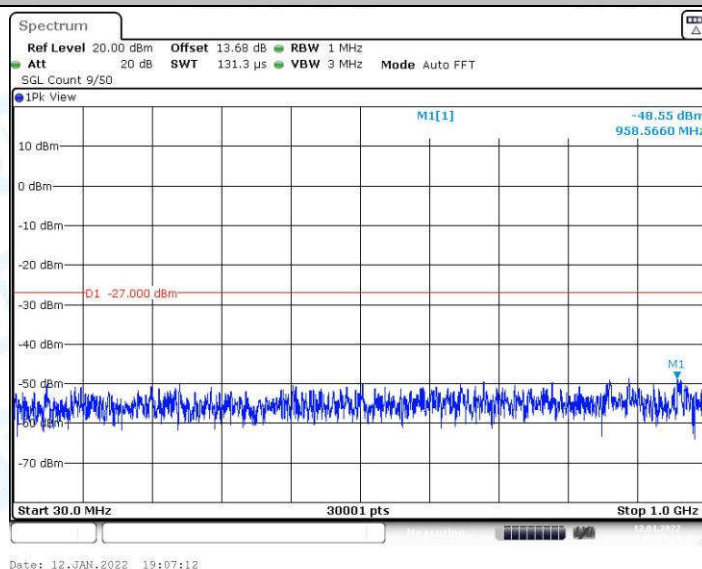
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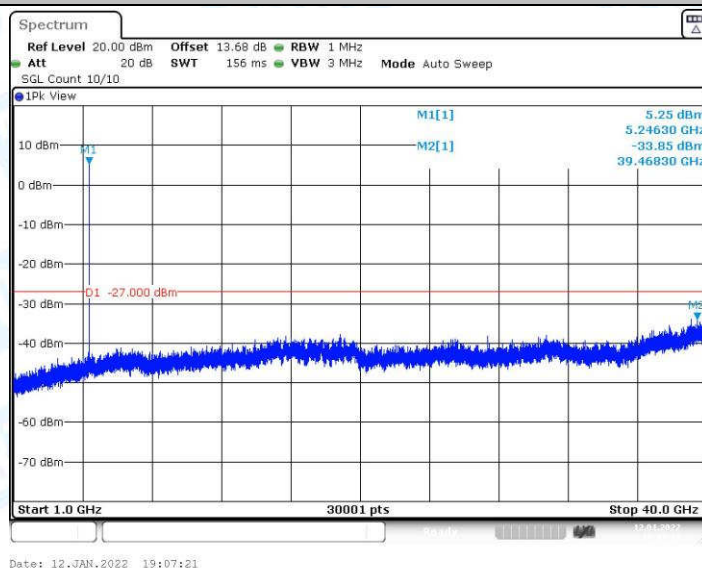
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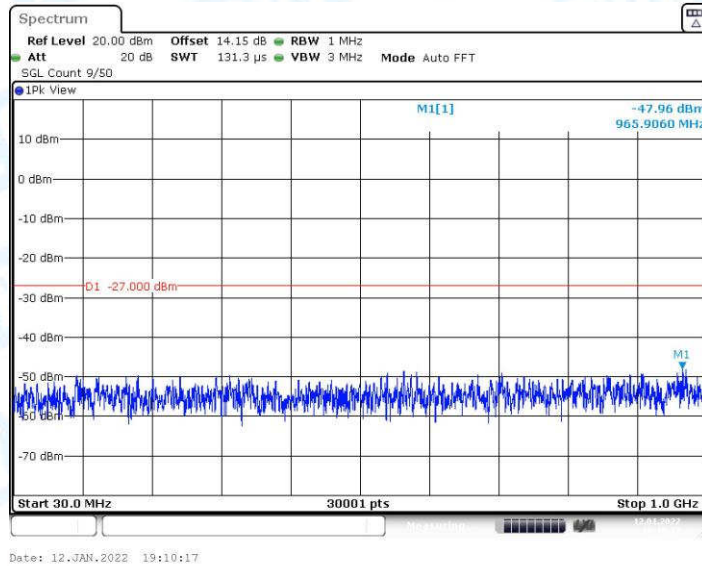
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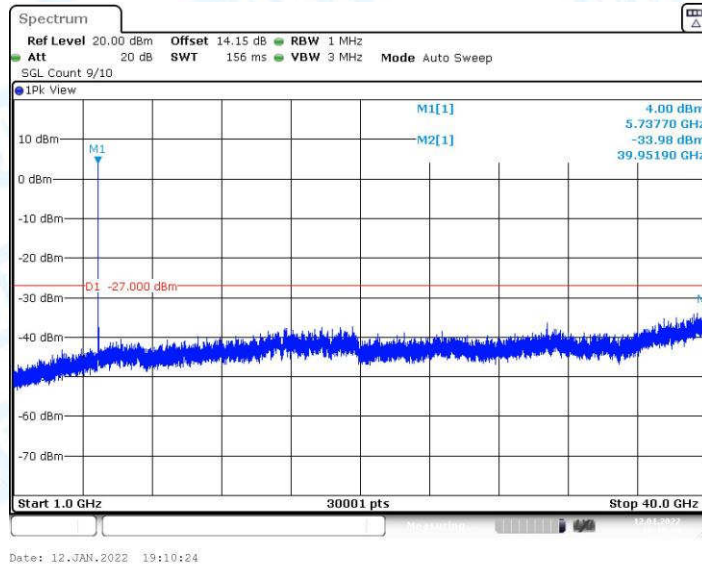
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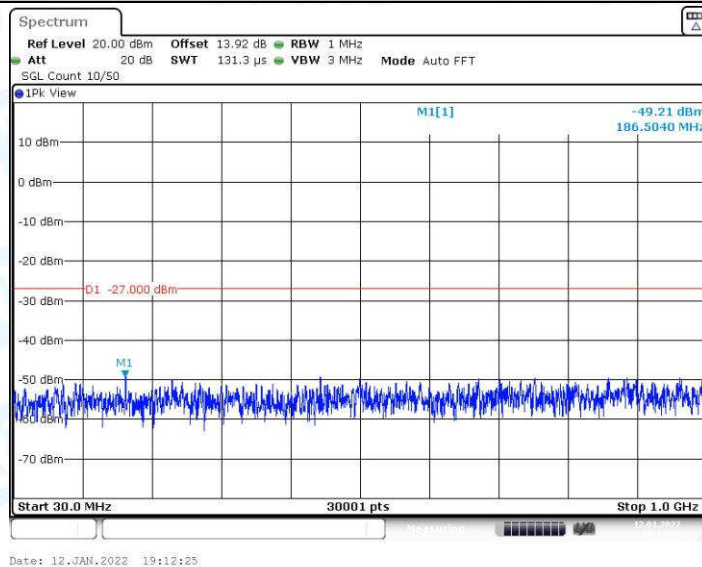
11N20SISO\_Ant1\_5240\_1000~40000



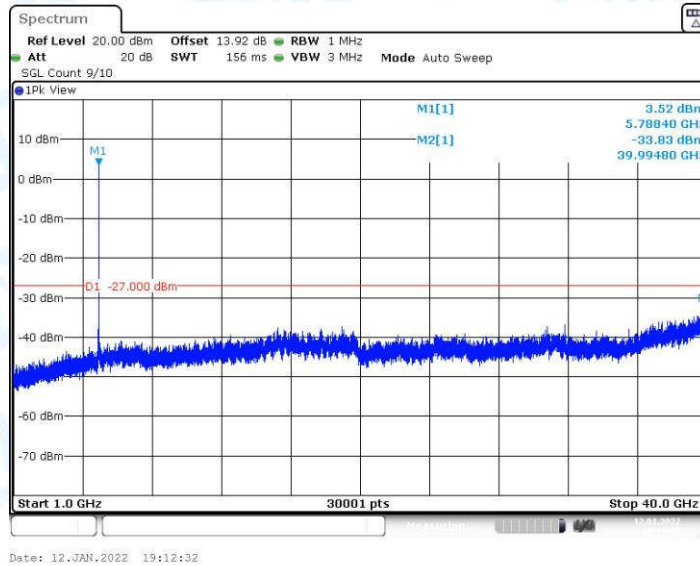
11N20SISO\_Ant1\_5745\_30~1000



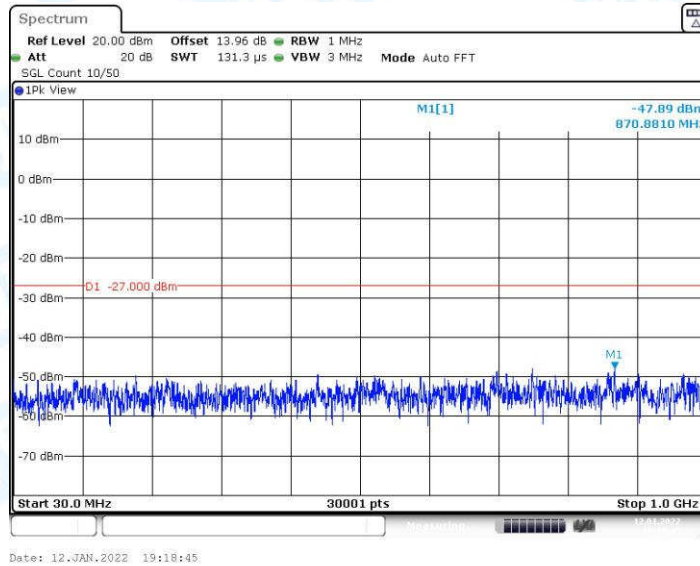
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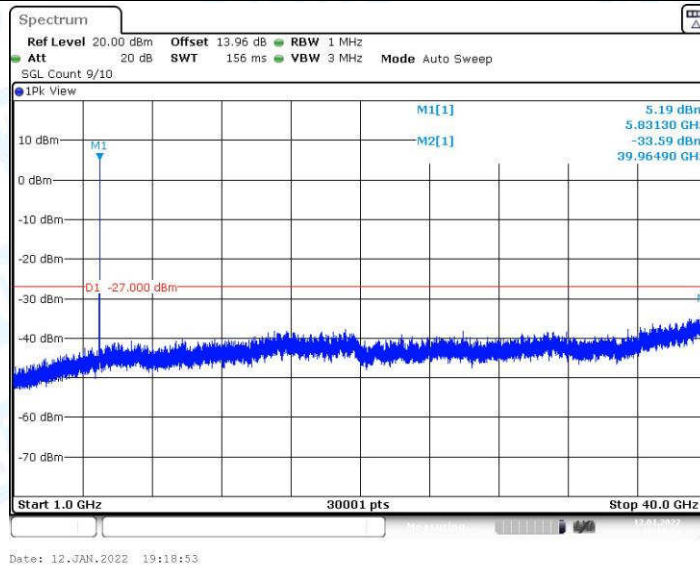
11N20SISO\_Ant1\_5785\_30~1000



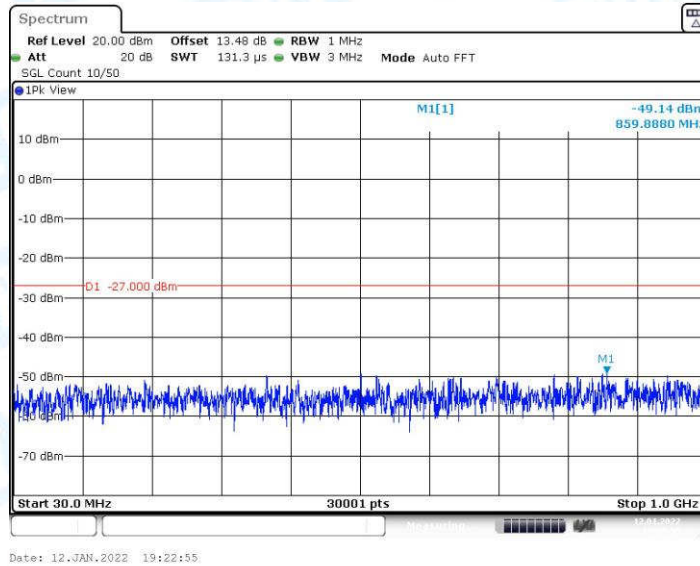
11N20SISO\_Ant1\_5785\_1000~40000



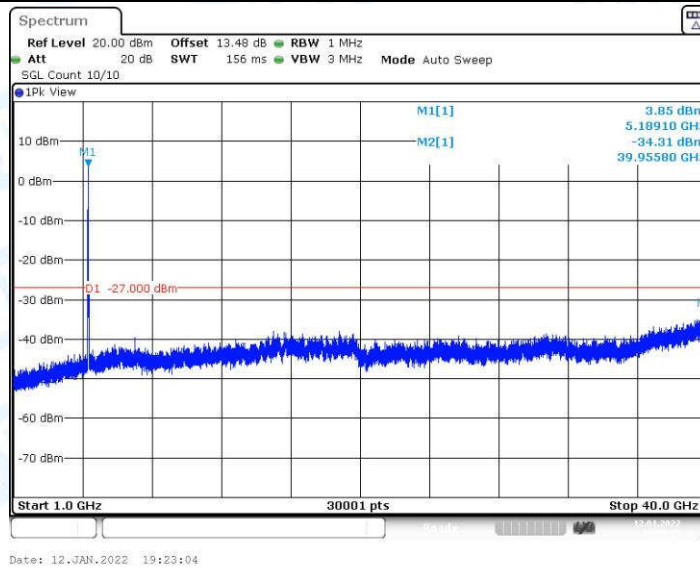
11N20SISO\_Ant1\_5825\_30~1000



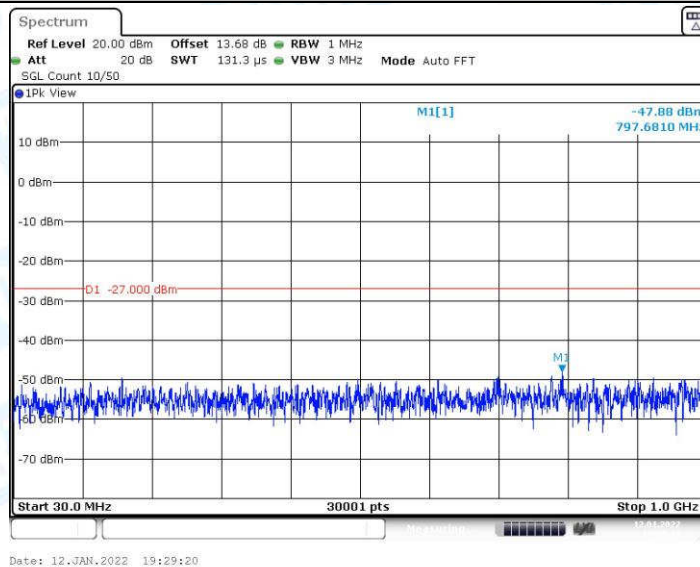
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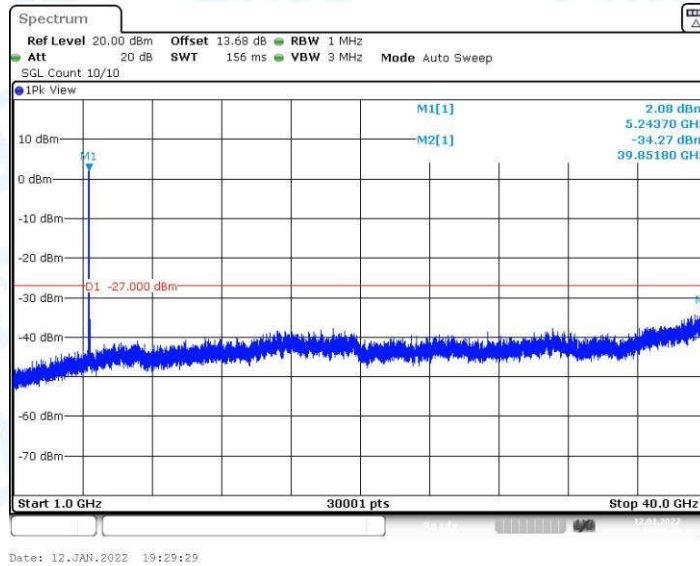
11N40SISO\_Ant1\_5190\_30~1000



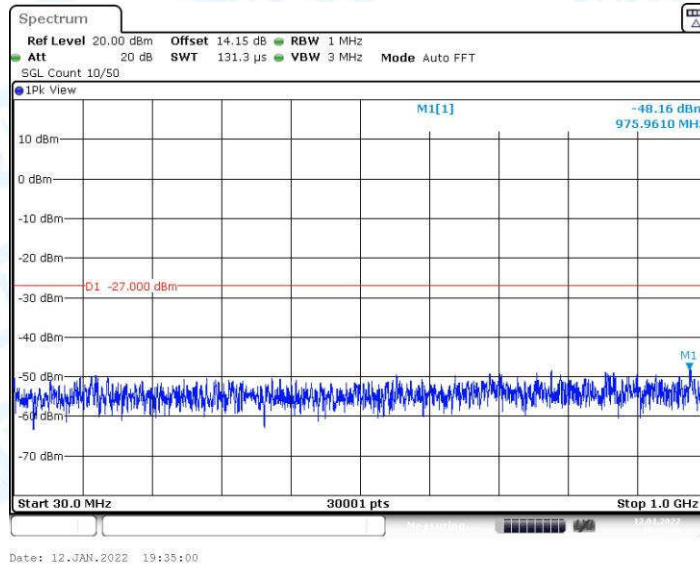
11N40SISO\_Ant1\_5190\_1000~40000



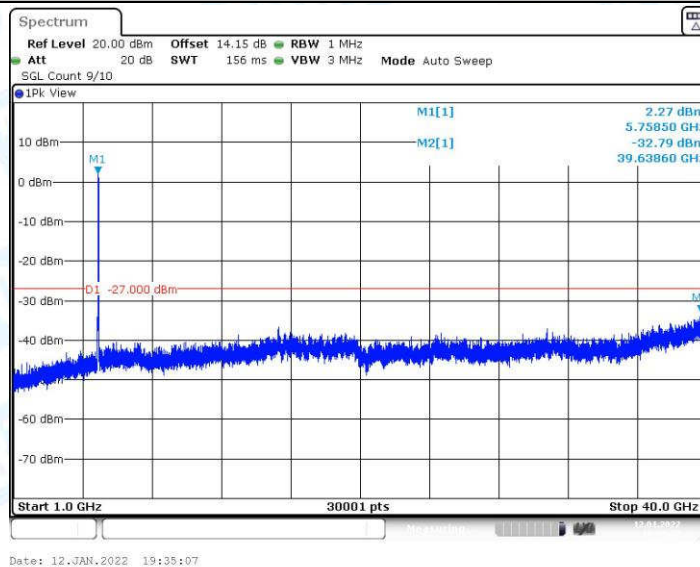
11N40SISO\_Ant1\_5230\_30~1000



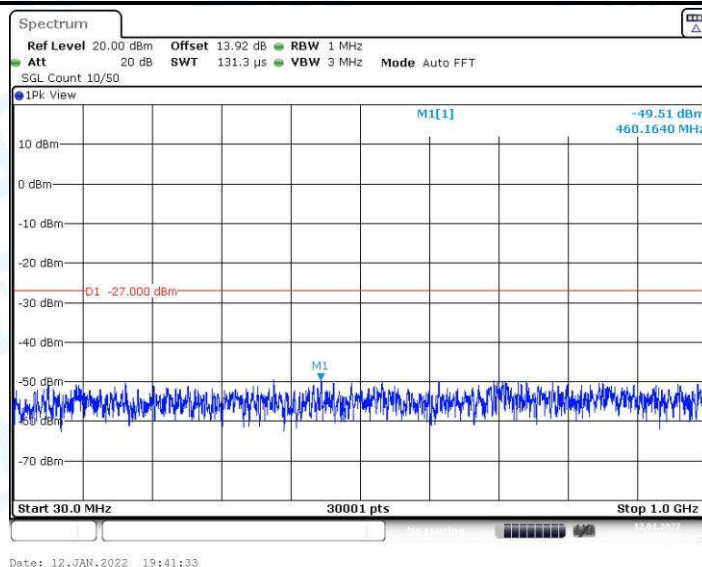
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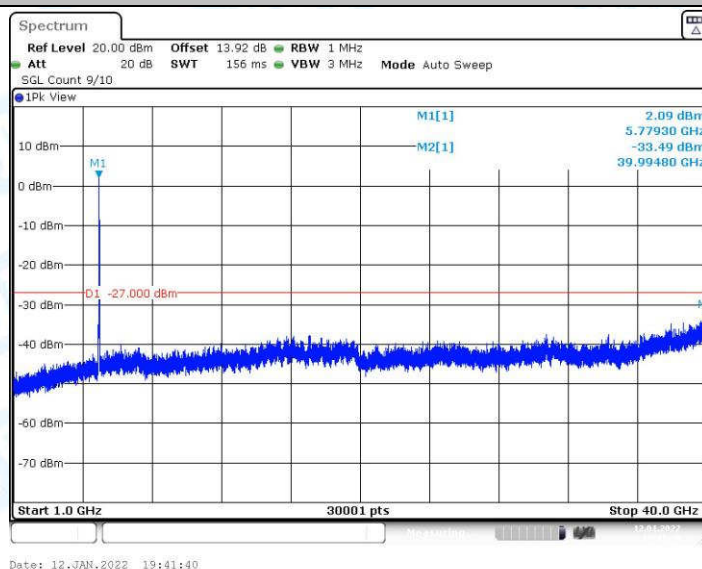
11N40SISO\_Ant1\_5755\_30~1000



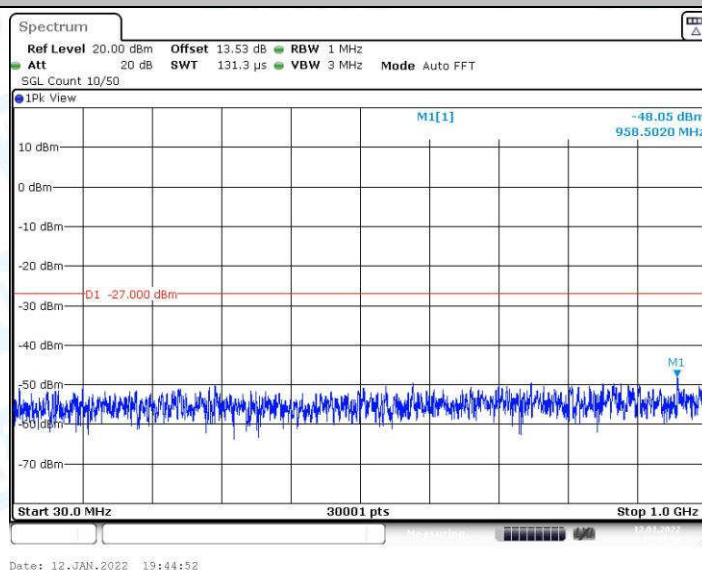
11N40SISO\_Ant1\_5755\_1000~40000



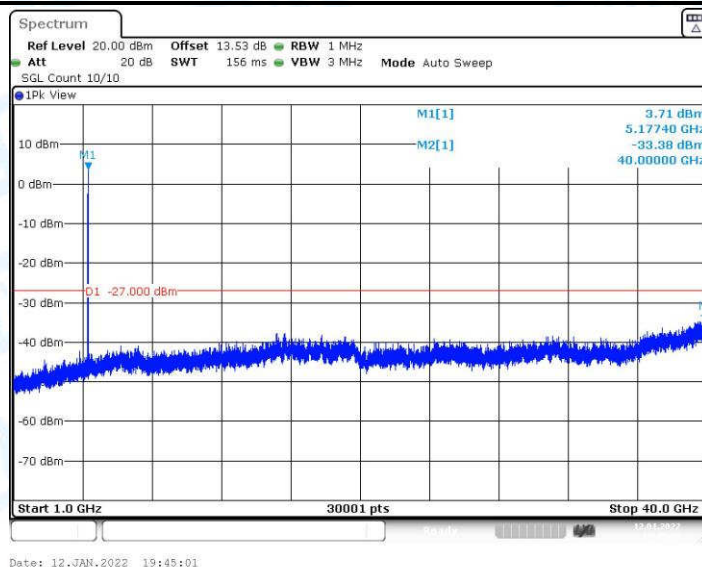
11N40SISO\_Ant1\_5795\_30~1000



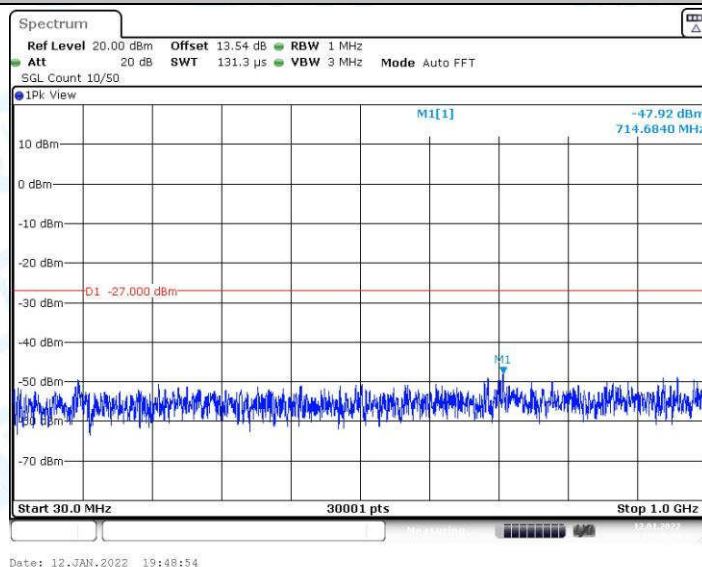
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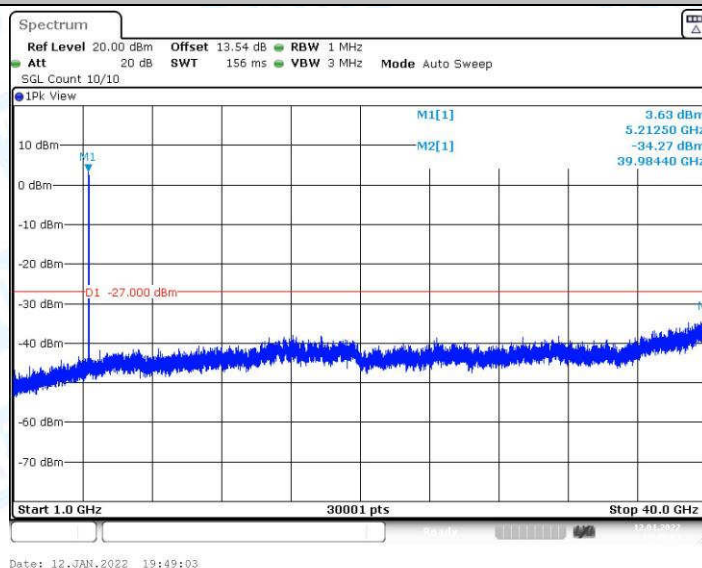
11AC20SISO\_Ant1\_5180\_30~1000



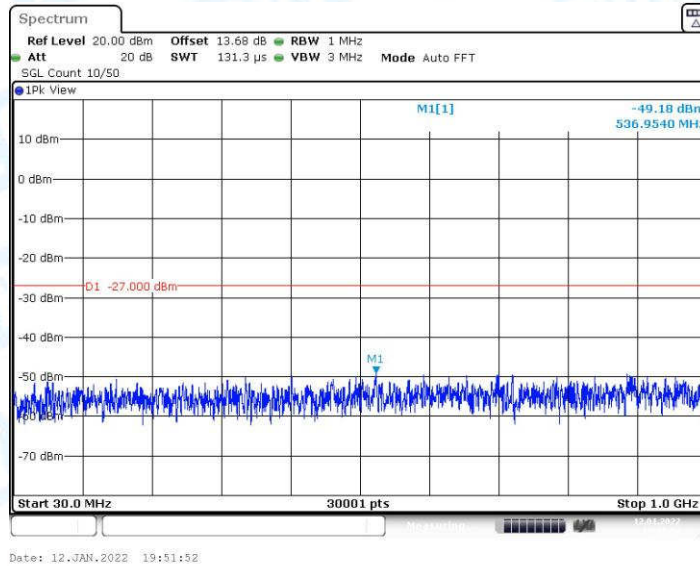
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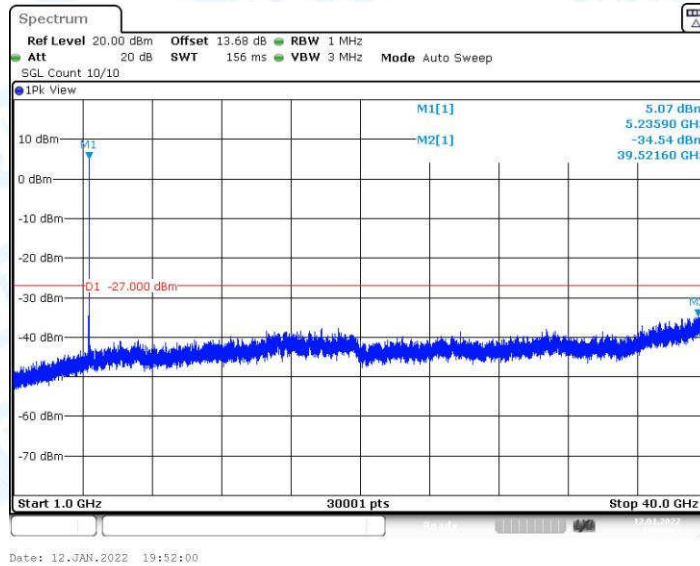
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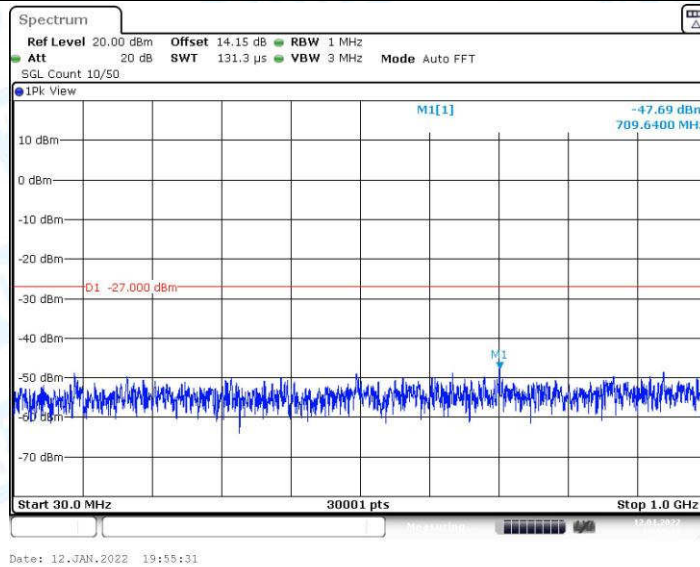
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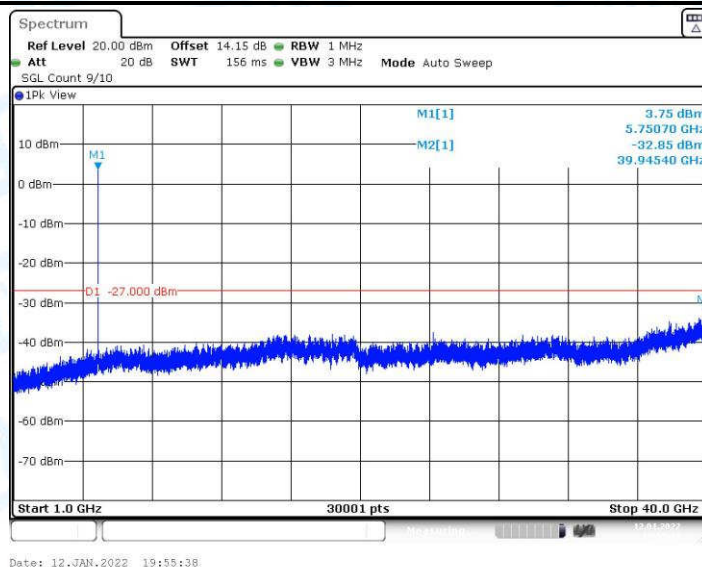
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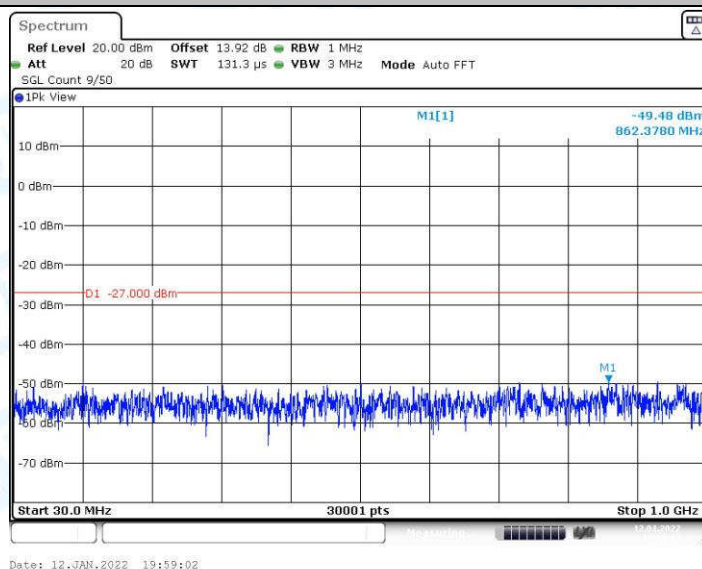
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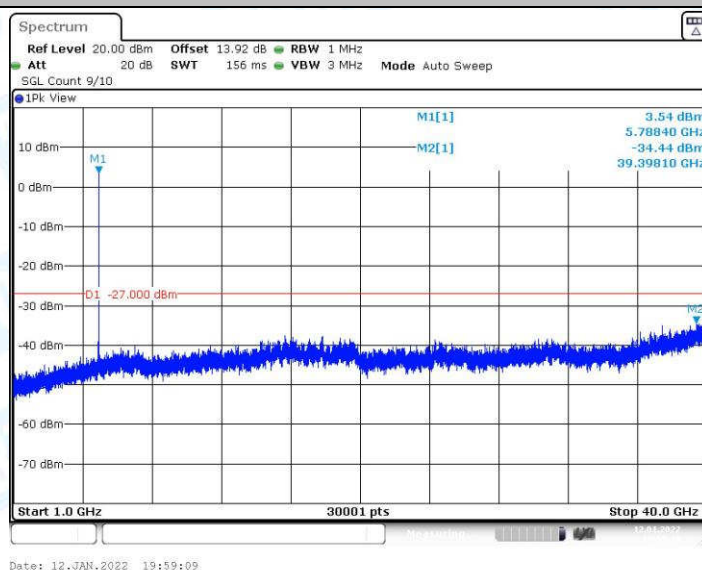
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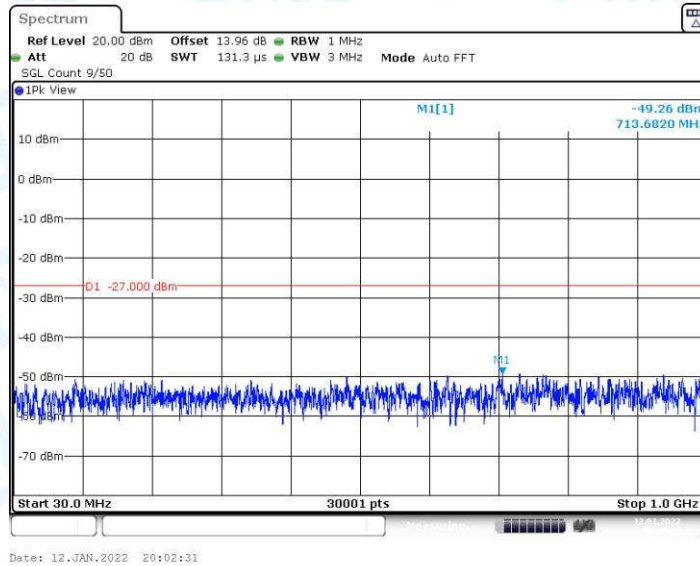
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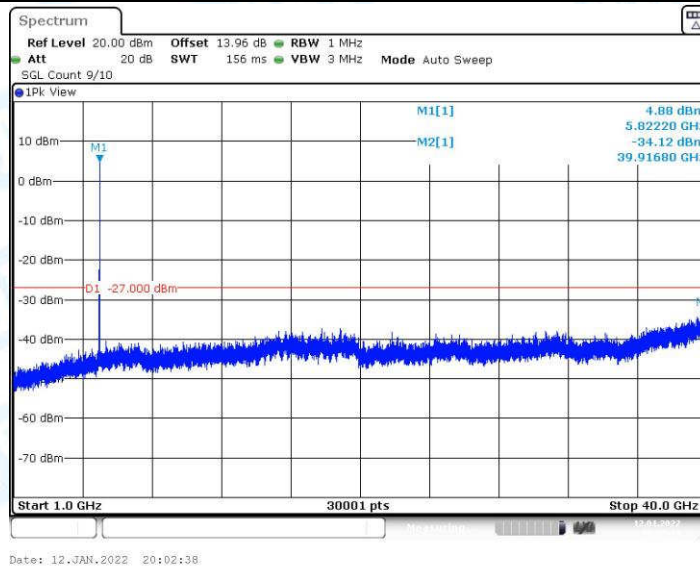
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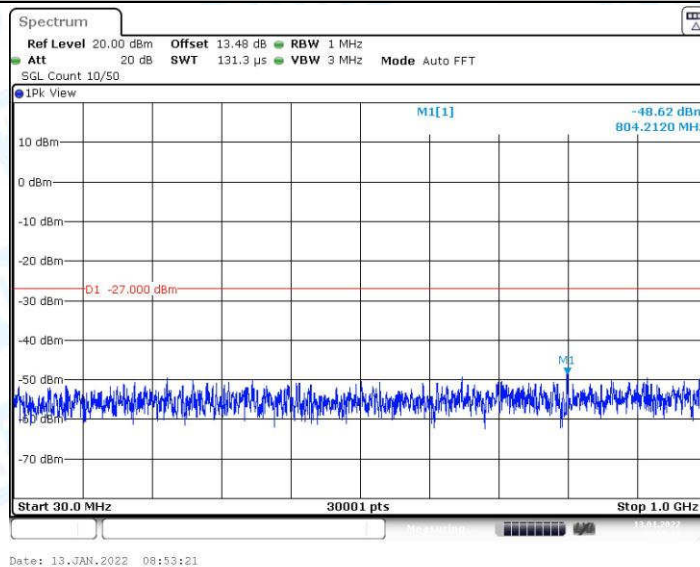
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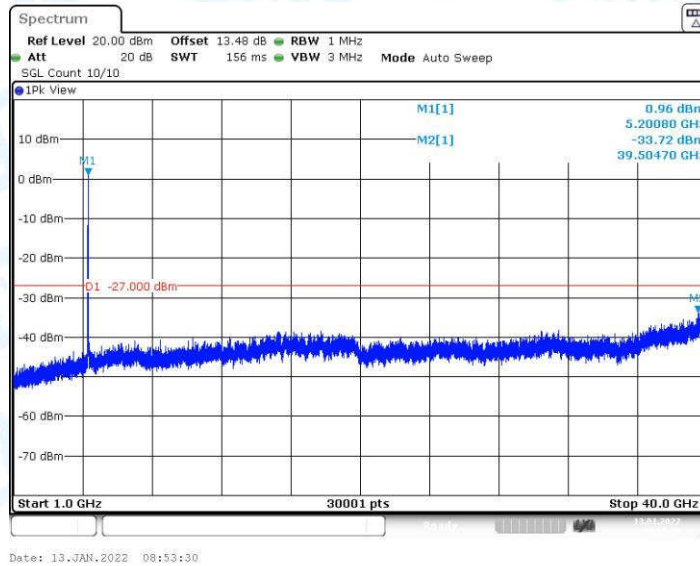
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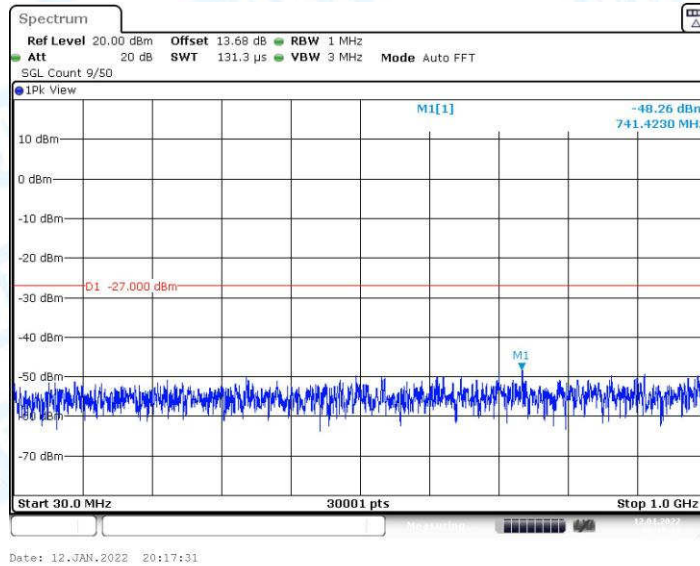
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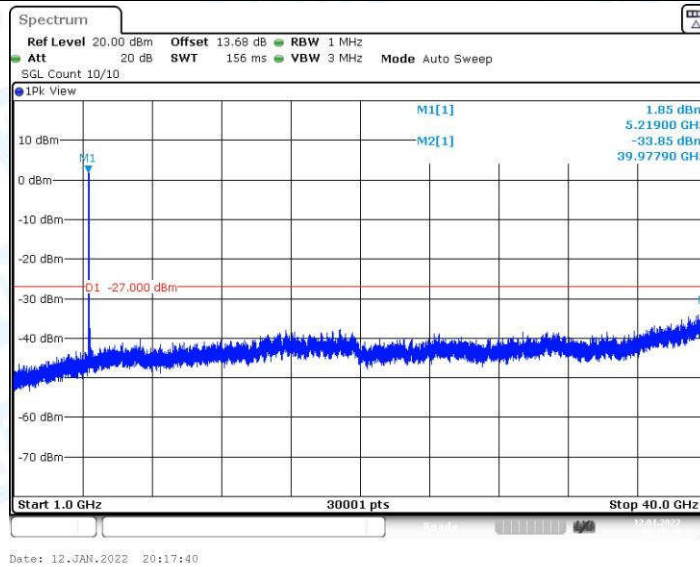
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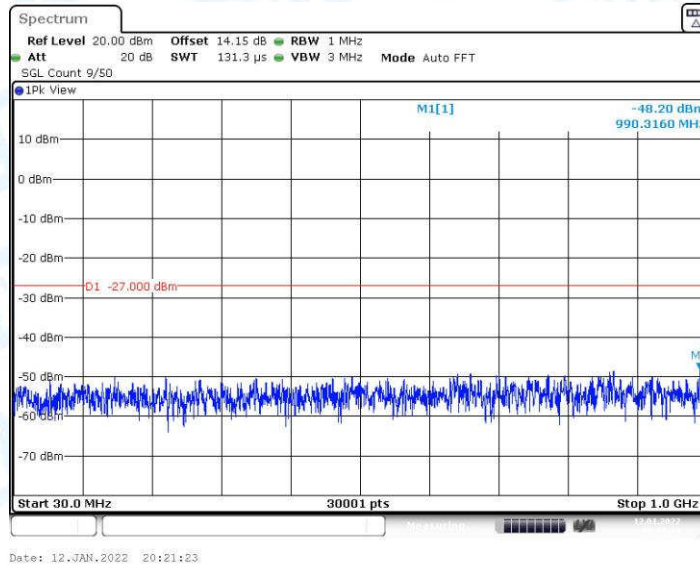
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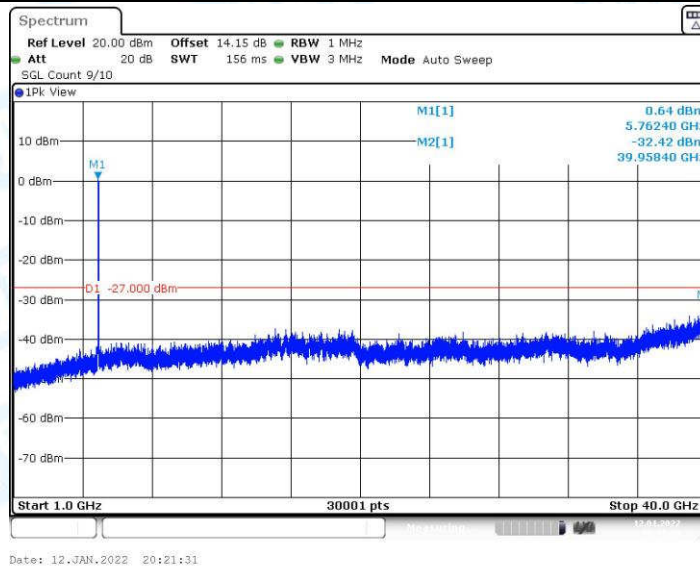
11AC40SISO\_Ant1\_5230\_30~1000



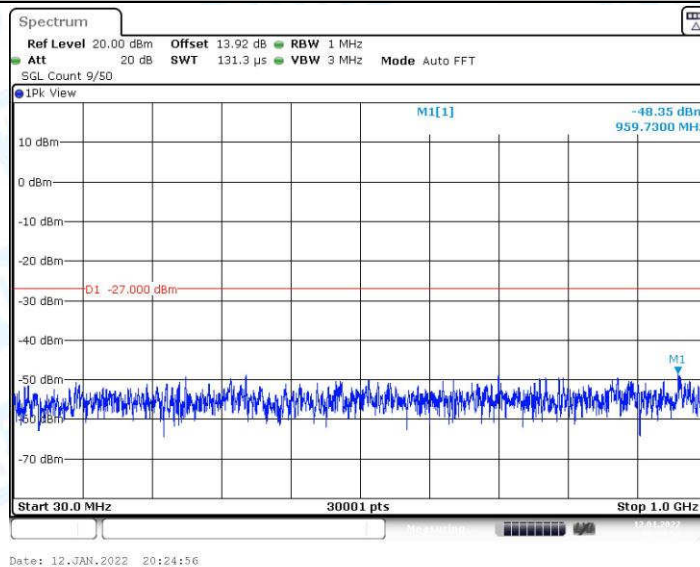
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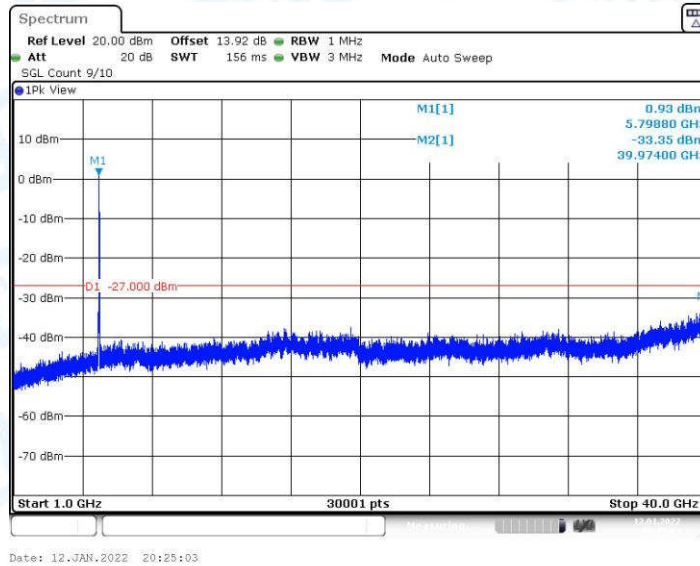
11AC40SISO\_Ant1\_5755\_30~1000



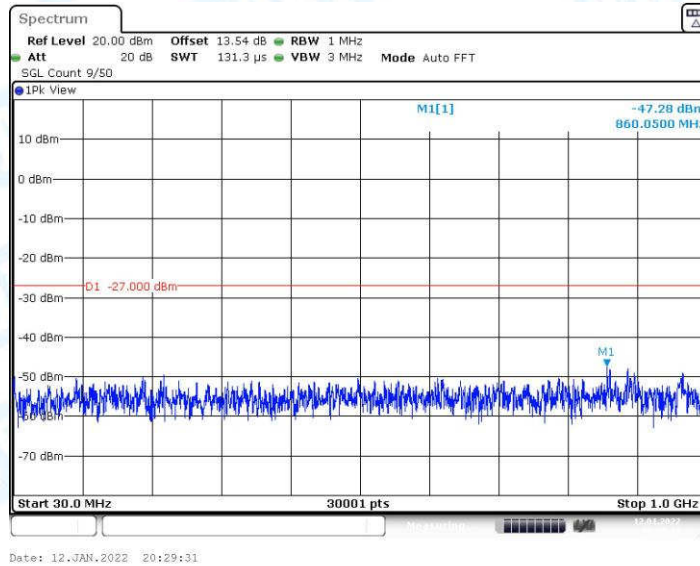
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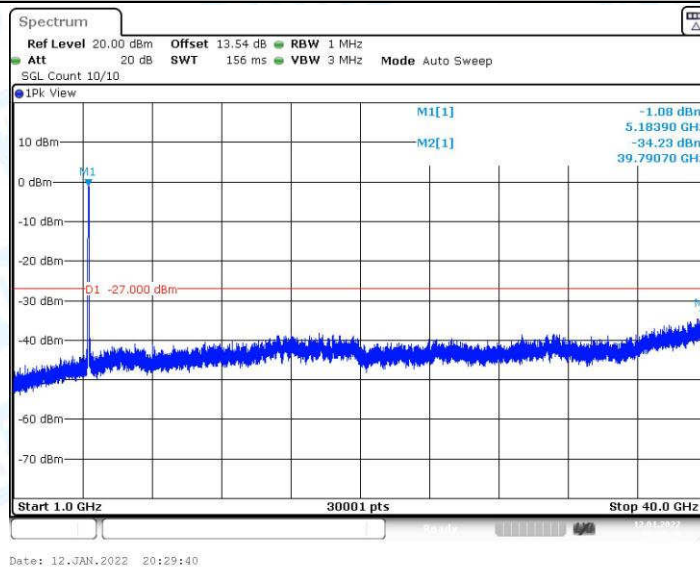
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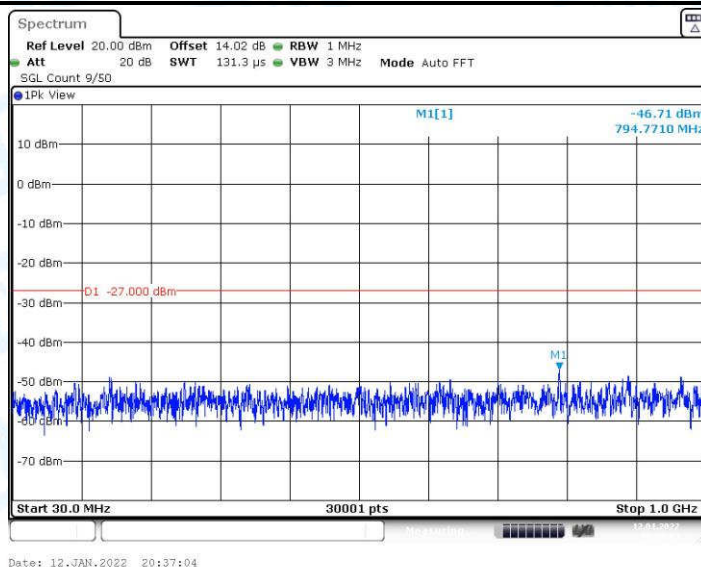
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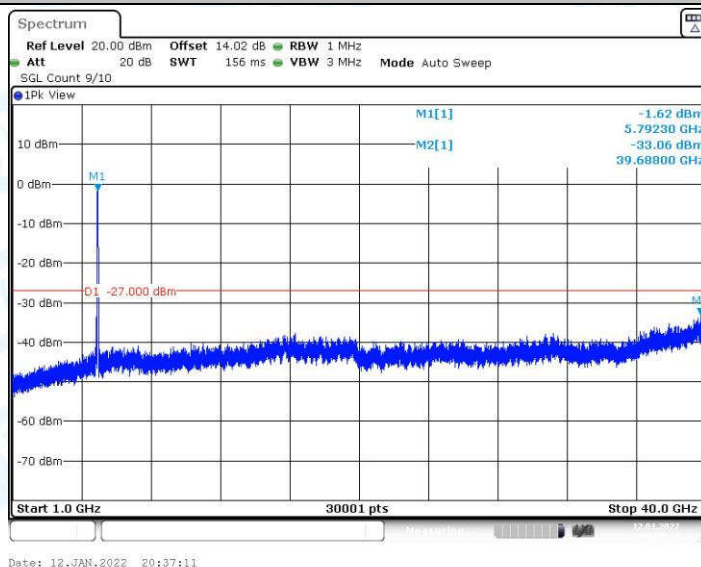
11AC80SISO\_Ant1\_5210\_30~1000



11AC80SISO\_Ant1\_5210\_1000~40000



11AC80SISO\_Ant1\_5775\_30~1000



11AC80SISO\_Ant1\_5775\_1000~40000

## 9. Frequency Stability

### 9.1. Test Result

| Voltage    |         |         |               |                  |                |                 |             |         |
|------------|---------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| TestMode   | Antenna | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| 11N20SISO  | Ant1    | 5180    | NV            | NT               | -20000.00      | -3.861004       | 20          | PASS    |
|            |         |         | LV            | NT               | -40000.00      | -7.722008       | 20          | PASS    |
|            |         |         | HV            | NT               | -40000.00      | -7.722008       | 20          | PASS    |
|            |         | 5220    | NV            | NT               | 0.00           | 0.000000        | 20          | PASS    |
|            |         |         | LV            | NT               | -20000.00      | -3.831418       | 20          | PASS    |
|            |         |         | HV            | NT               | -20000.00      | -3.831418       | 20          | PASS    |
|            |         | 5240    | NV            | NT               | -40000.00      | -7.633588       | 20          | PASS    |
|            |         |         | LV            | NT               | -20000.00      | -3.816794       | 20          | PASS    |
|            |         |         | HV            | NT               | -20000.00      | -3.816794       | 20          | PASS    |
|            |         | 5745    | NV            | NT               | -20000.00      | -3.481288       | 20          | PASS    |
|            |         |         | LV            | NT               | -20000.00      | -3.481288       | 20          | PASS    |
|            |         |         | HV            | NT               | -20000.00      | -3.481288       | 20          | PASS    |
|            |         | 5785    | NV            | NT               | -20000.00      | -3.457217       | 20          | PASS    |
|            |         |         | LV            | NT               | -20000.00      | -3.457217       | 20          | PASS    |
|            |         |         | HV            | NT               | -20000.00      | -3.457217       | 20          | PASS    |
| 11N40SISO  | Ant1    | 5190    | NV            | NT               | 0.00           | 0.000000        | 20          | PASS    |
|            |         |         | LV            | NT               | 0.00           | 0.000000        | 20          | PASS    |
|            |         |         | HV            | NT               | 0.00           | 0.000000        | 20          | PASS    |
|            |         | 5230    | NV            | NT               | 0.00           | 0.000000        | 20          | PASS    |
|            |         |         | LV            | NT               | 0.00           | 0.000000        | 20          | PASS    |
|            |         |         | HV            | NT               | -40000.00      | -7.648184       | 20          | PASS    |
|            |         | 5755    | NV            | NT               | -40000.00      | -6.950478       | 20          | PASS    |
|            |         |         | LV            | NT               | -40000.00      | -6.950478       | 20          | PASS    |
|            |         |         | HV            | NT               | 0.00           | 0.000000        | 20          | PASS    |
| 11AC80SISO | Ant1    | 5210    | NV            | NT               | 0.00           | 0.000000        | 20          | PASS    |
|            |         |         | LV            | NT               | 0.00           | 0.000000        | 20          | PASS    |
|            |         |         | HV            | NT               | 0.00           | 0.000000        | 20          | PASS    |
|            |         | 5775    | NV            | NT               | 0.00           | 0.000000        | 20          | PASS    |
|            |         |         | LV            | NT               | 80000.00       | 13.852814       | 20          | PASS    |
|            |         |         | HV            | NT               | 0.00           | 0.000000        | 20          | PASS    |

| Temperature |         |         |               |                  |                |                 |             |         |
|-------------|---------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| TestMode    | Antenna | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| 11N20SISO   | Ant1    | 5180    | NV            | -30              | -20000.00      | -3.861004       | 20          | PASS    |
|             |         |         | NV            | -20              | -20000.00      | -3.861004       | 20          | PASS    |
|             |         |         | NV            | -10              | -40000.00      | -7.722008       | 20          | PASS    |
|             |         |         | NV            | 0                | -20000.00      | -3.861004       | 20          | PASS    |
|             |         |         | NV            | 10               | 0.00           | 0.000000        | 20          | PASS    |
|             |         |         | NV            | 20               | -20000.00      | -3.861004       | 20          | PASS    |
|             |         |         | NV            | 30               | -20000.00      | -3.861004       | 20          | PASS    |
|             |         |         | NV            | 40               | 0.00           | 0.000000        | 20          | PASS    |
|             |         |         | NV            | 50               | -20000.00      | -3.861004       | 20          | PASS    |
|             |         | 5220    | NV            | -30              | -40000.00      | -7.662835       | 20          | PASS    |
|             |         |         | NV            | -20              | -20000.00      | -3.831418       | 20          | PASS    |
|             |         |         | NV            | -10              | -20000.00      | -3.831418       | 20          | PASS    |
|             |         |         | NV            | 0                | -20000.00      | -3.831418       | 20          | PASS    |
|             |         |         | NV            | 10               | -20000.00      | -3.831418       | 20          | PASS    |
|             |         |         | NV            | 20               | -20000.00      | -3.831418       | 20          | PASS    |
|             |         |         | NV            | 30               | -20000.00      | -3.831418       | 20          | PASS    |
|             |         |         | NV            | 40               | -20000.00      | -3.831418       | 20          | PASS    |
|             |         |         | NV            | 50               | -20000.00      | -3.831418       | 20          | PASS    |
|             |         | 5240    | NV            | -30              | -40000.00      | -7.633588       | 20          | PASS    |
|             |         |         | NV            | -20              | -20000.00      | -3.816794       | 20          | PASS    |
|             |         |         | NV            | -10              | -40000.00      | -7.633588       | 20          | PASS    |
|             |         |         | NV            | 0                | -40000.00      | -7.633588       | 20          | PASS    |
|             |         |         | NV            | 10               | -20000.00      | -3.816794       | 20          | PASS    |
|             |         |         | NV            | 20               | -40000.00      | -7.633588       | 20          | PASS    |
|             |         |         | NV            | 30               | -20000.00      | -3.816794       | 20          | PASS    |
|             |         |         | NV            | 40               | -20000.00      | -3.816794       | 20          | PASS    |
|             |         |         | NV            | 50               | -20000.00      | -3.816794       | 20          | PASS    |
|             |         | 5745    | NV            | -30              | -20000.00      | -3.481288       | 20          | PASS    |
|             |         |         | NV            | -20              | -40000.00      | -6.962576       | 20          | PASS    |
|             |         |         | NV            | -10              | 0.00           | 0.000000        | 20          | PASS    |
|             |         |         | NV            | 0                | -20000.00      | -3.481288       | 20          | PASS    |
|             |         |         | NV            | 10               | -20000.00      | -3.481288       | 20          | PASS    |
|             |         |         | NV            | 20               | -20000.00      | -3.481288       | 20          | PASS    |
|             |         |         | NV            | 30               | -20000.00      | -3.481288       | 20          | PASS    |
|             |         |         | NV            | 40               | -40000.00      | -6.962576       | 20          | PASS    |
|             |         |         | NV            | 50               | -20000.00      | -3.481288       | 20          | PASS    |
|             |         | 5785    | NV            | -30              | 0.00           | 0.000000        | 20          | PASS    |
|             |         |         | NV            | -20              | -40000.00      | -6.914434       | 20          | PASS    |
|             |         |         | NV            | -10              | -40000.00      | -6.914434       | 20          | PASS    |
|             |         |         | NV            | 0                | -20000.00      | -3.457217       | 20          | PASS    |
|             |         |         | NV            | 10               | -40000.00      | -6.914434       | 20          | PASS    |
|             |         |         | NV            | 20               | -20000.00      | -3.457217       | 20          | PASS    |

|           |      |      |    |     |           |           |    |      |
|-----------|------|------|----|-----|-----------|-----------|----|------|
|           |      | 5825 | NV | 30  | 0.00      | 0.000000  | 20 | PASS |
|           |      |      | NV | 40  | 0.00      | 0.000000  | 20 | PASS |
|           |      |      | NV | 50  | -20000.00 | -3.457217 | 20 | PASS |
|           |      |      | NV | -30 | -40000.00 | -6.866953 | 20 | PASS |
|           |      |      | NV | -20 | -20000.00 | -3.433476 | 20 | PASS |
|           |      |      | NV | -10 | -20000.00 | -3.433476 | 20 | PASS |
|           |      |      | NV | 0   | -40000.00 | -6.866953 | 20 | PASS |
|           |      |      | NV | 10  | -40000.00 | -6.866953 | 20 | PASS |
|           |      |      | NV | 20  | -20000.00 | -3.433476 | 20 | PASS |
|           |      |      | NV | 30  | -40000.00 | -6.866953 | 20 | PASS |
|           |      |      | NV | 40  | -40000.00 | -6.866953 | 20 | PASS |
|           |      |      | NV | 50  | -20000.00 | -3.433476 | 20 | PASS |
| 11N40SISO | Ant1 | 5190 | NV | -30 | -40000.00 | -7.707129 | 20 | PASS |
|           |      |      | NV | -20 | 0.00      | 0.000000  | 20 | PASS |
|           |      |      | NV | -10 | -40000.00 | -7.707129 | 20 | PASS |
|           |      |      | NV | 0   | -40000.00 | -7.707129 | 20 | PASS |
|           |      |      | NV | 10  | 0.00      | 0.000000  | 20 | PASS |
|           |      |      | NV | 20  | -40000.00 | -7.707129 | 20 | PASS |
|           |      |      | NV | 30  | -40000.00 | -7.707129 | 20 | PASS |
|           |      |      | NV | 40  | 0.00      | 0.000000  | 20 | PASS |
|           |      |      | NV | 50  | -40000.00 | -7.707129 | 20 | PASS |
|           |      | 5230 | NV | -30 | -40000.00 | -7.648184 | 20 | PASS |
|           |      |      | NV | -20 | 0.00      | 0.000000  | 20 | PASS |
|           |      |      | NV | -10 | 0.00      | 0.000000  | 20 | PASS |
|           |      |      | NV | 0   | -40000.00 | -7.648184 | 20 | PASS |
|           |      |      | NV | 10  | 0.00      | 0.000000  | 20 | PASS |
|           |      |      | NV | 20  | 0.00      | 0.000000  | 20 | PASS |
|           |      |      | NV | 30  | 0.00      | 0.000000  | 20 | PASS |
|           |      |      | NV | 40  | -40000.00 | -7.648184 | 20 | PASS |
|           |      |      | NV | 50  | -40000.00 | -7.648184 | 20 | PASS |
|           |      | 5755 | NV | -30 | -40000.00 | -6.950478 | 20 | PASS |
|           |      |      | NV | -20 | -40000.00 | -6.950478 | 20 | PASS |
|           |      |      | NV | -10 | -40000.00 | -6.950478 | 20 | PASS |
|           |      |      | NV | 0   | -40000.00 | -6.950478 | 20 | PASS |
|           |      |      | NV | 10  | 0.00      | 0.000000  | 20 | PASS |
|           |      |      | NV | 20  | -40000.00 | -6.950478 | 20 | PASS |
|           |      |      | NV | 30  | -40000.00 | -6.950478 | 20 | PASS |
|           |      |      | NV | 40  | 0.00      | 0.000000  | 20 | PASS |
|           |      |      | NV | 50  | -40000.00 | -6.950478 | 20 | PASS |
|           |      | 5795 | NV | -30 | 0.00      | 0.000000  | 20 | PASS |
|           |      |      | NV | -20 | -40000.00 | -6.902502 | 20 | PASS |
|           |      |      | NV | -10 | -40000.00 | -6.902502 | 20 | PASS |
|           |      |      | NV | 0   | -40000.00 | -6.902502 | 20 | PASS |
|           |      |      | NV | 10  | -40000.00 | -6.902502 | 20 | PASS |
|           |      |      | NV | 20  | -40000.00 | -6.902502 | 20 | PASS |
|           |      |      | NV | 30  | -40000.00 | -6.902502 | 20 | PASS |

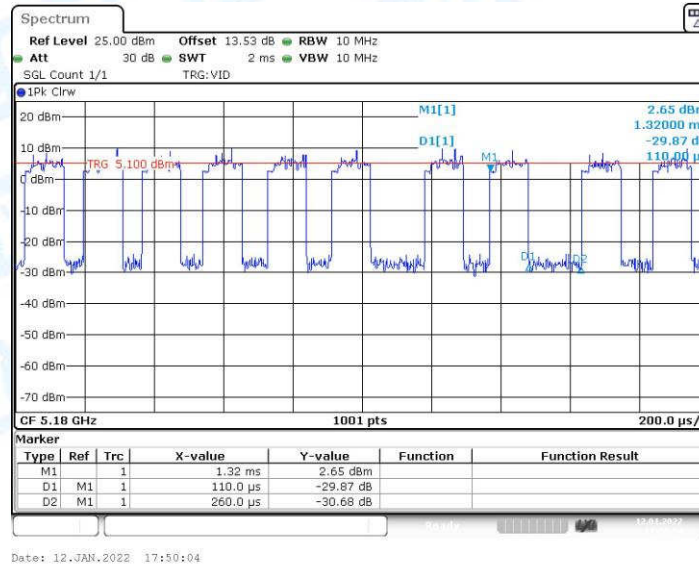
|                |      |      |    |     |           |            |    |      |
|----------------|------|------|----|-----|-----------|------------|----|------|
| 11AC80SIS<br>O | Ant1 |      | NV | 40  | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | 50  | -40000.00 | -6.902502  | 20 | PASS |
|                |      | 5210 | NV | -30 | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | -20 | 80000.00  | 15.355086  | 20 | PASS |
|                |      |      | NV | -10 | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | 0   | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | 10  | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | 20  | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | 30  | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | 40  | -80000.00 | -15.355086 | 20 | PASS |
|                |      |      | NV | 50  | 0.00      | 0.000000   | 20 | PASS |
|                |      | 5775 | NV | -30 | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | -20 | -80000.00 | -13.852814 | 20 | PASS |
|                |      |      | NV | -10 | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | 0   | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | 10  | -80000.00 | -13.852814 | 20 | PASS |
|                |      |      | NV | 20  | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | 30  | -80000.00 | -13.852814 | 20 | PASS |
|                |      |      | NV | 40  | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | 50  | 0.00      | 0.000000   | 20 | PASS |

## 10. Duty Cycle

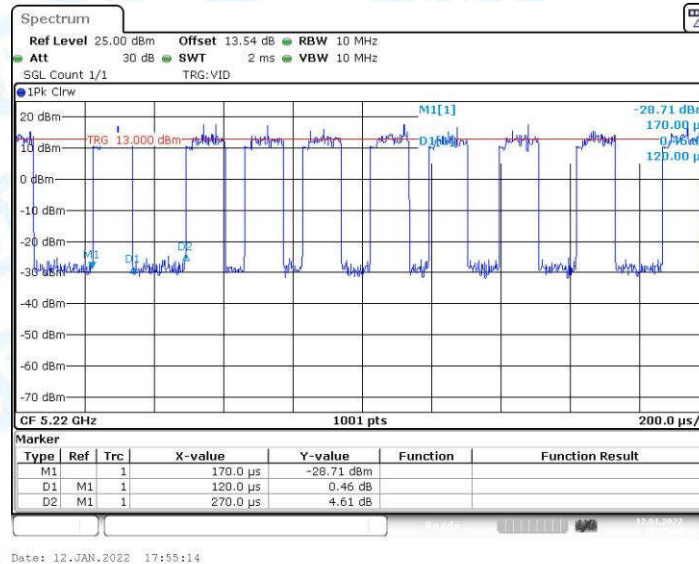
### 10.1. Test Result

| TestMode                          | Antenna | Channel | Transmission<br>Duration [ms] | Transmission<br>Period [ms] | Duty Cycle<br>[%] | 1/T<br>[KHz] | Limit | Verdict |
|-----------------------------------|---------|---------|-------------------------------|-----------------------------|-------------------|--------------|-------|---------|
| 11A                               | Ant1    | 5180    | 0.11                          | 0.26                        | 42.31             | 9.09         | ---   | ---     |
|                                   |         | 5220    | 0.12                          | 0.27                        | 44.44             | 8.33         | ---   | ---     |
|                                   |         | 5240    | 0.11                          | 0.28                        | 39.29             | 9.09         | ---   | ---     |
|                                   |         | 5745    | 0.12                          | 0.24                        | 50.00             | 8.33         | ---   | ---     |
|                                   |         | 5785    | 0.11                          | 0.28                        | 39.29             | 9.09         | ---   | ---     |
|                                   |         | 5825    | 0.11                          | 0.27                        | 40.74             | 9.09         | ---   | ---     |
| 11N20SISO                         | Ant1    | 5180    | 0.12                          | 0.27                        | 44.44             | 3.70         | ---   | ---     |
|                                   |         | 5220    | 0.12                          | 0.26                        | 46.15             | 3.85         | ---   | ---     |
|                                   |         | 5240    | 0.12                          | 0.28                        | 42.86             | 3.57         | ---   | ---     |
|                                   |         | 5745    | 0.12                          | 0.29                        | 41.38             | 3.45         | ---   | ---     |
|                                   |         | 5785    | 0.11                          | 0.29                        | 37.93             | 3.45         | ---   | ---     |
|                                   |         | 5825    | 0.12                          | 0.29                        | 41.38             | 3.45         | ---   | ---     |
| 11N40SISO                         | Ant1    | 5190    | 0.63                          | 0.73                        | 86.30             | 1.37         | ---   | ---     |
|                                   |         | 5230    | 0.63                          | 0.74                        | 85.14             | 1.35         | ---   | ---     |
|                                   |         | 5755    | 0.08                          | 0.23                        | 34.78             | 4.35         | ---   | ---     |
|                                   |         | 5795    | 0.08                          | 0.26                        | 30.77             | 3.85         | ---   | ---     |
| 11AC20SISO                        | Ant1    | 5180    | 0.12                          | 0.29                        | 41.38             | 3.45         | ---   | ---     |
|                                   |         | 5220    | 0.12                          | 0.29                        | 41.38             | 3.45         | ---   | ---     |
|                                   |         | 5240    | 0.12                          | 0.27                        | 44.44             | 3.70         | ---   | ---     |
|                                   |         | 5745    | 0.12                          | 0.30                        | 40.00             | 3.33         | ---   | ---     |
|                                   |         | 5785    | 0.12                          | 0.27                        | 44.44             | 3.70         | ---   | ---     |
|                                   |         | 5825    | 0.12                          | 0.28                        | 42.86             | 3.57         | ---   | ---     |
| 11AC40SISO                        | Ant1    | 5190    | 0.64                          | 0.79                        | 81.01             | 1.27         | ---   | ---     |
|                                   |         | 5230    | 0.09                          | 0.24                        | 37.50             | 4.17         | ---   | ---     |
|                                   |         | 5755    | 0.08                          | 0.24                        | 33.33             | 4.17         | ---   | ---     |
|                                   |         | 5795    | 0.08                          | 0.25                        | 32.00             | 4.00         | ---   | ---     |
| 11AC80SISO                        | Ant1    | 5210    | 0.30                          | 0.78                        | 38.46             | 1.28         | ---   | ---     |
|                                   |         | 5775    | 0.18                          | 0.60                        | 30.00             | 1.67         | ---   | ---     |
| Note:1/T=1/ Transmission Duration |         |         |                               |                             |                   |              |       |         |

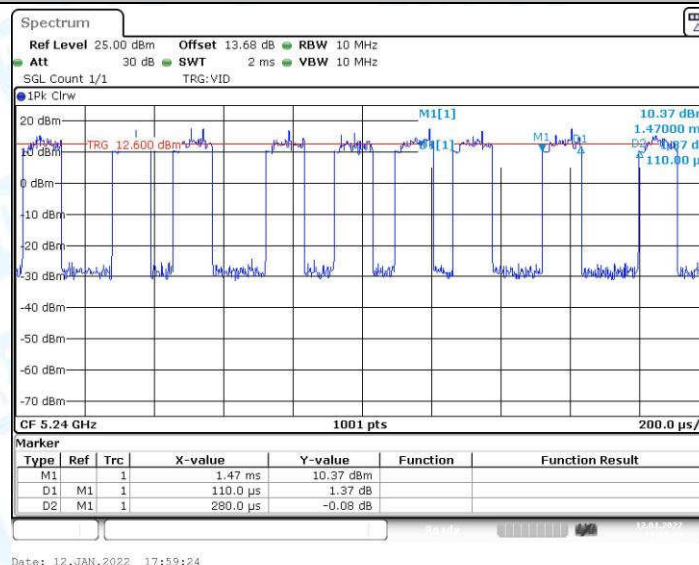
## 10.2. Test Graphs



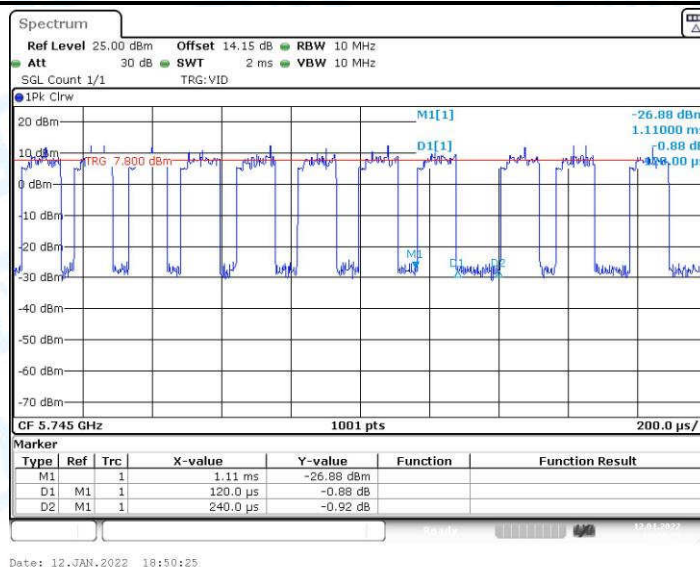
11A\_Ant1\_5180



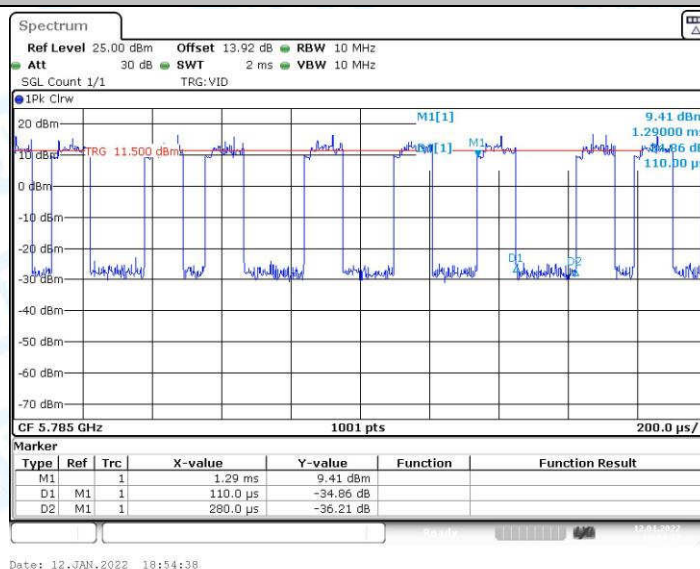
11A\_Ant1\_5220



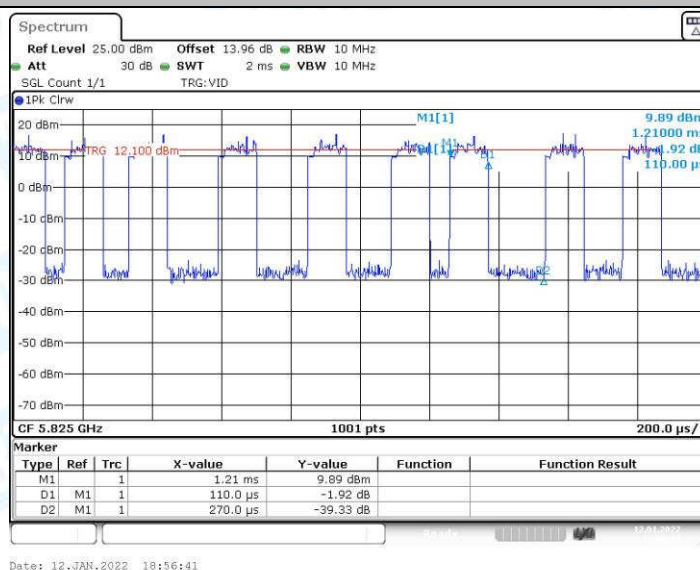
11A\_Ant1\_5240



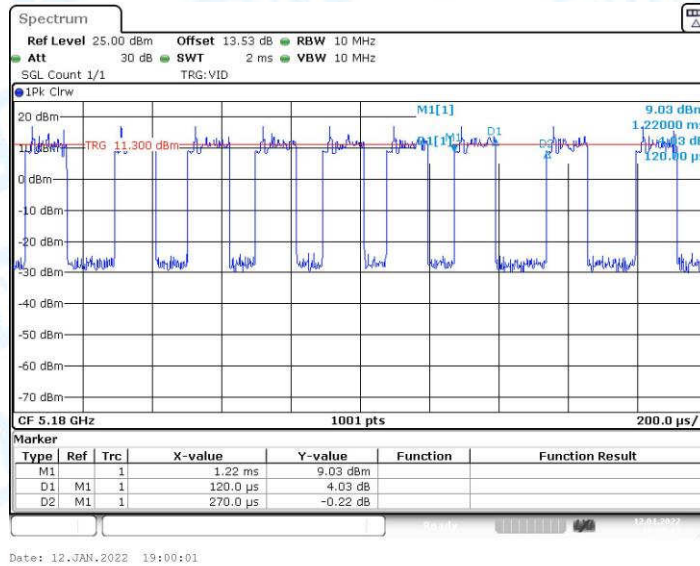
11A\_Ant1\_5745



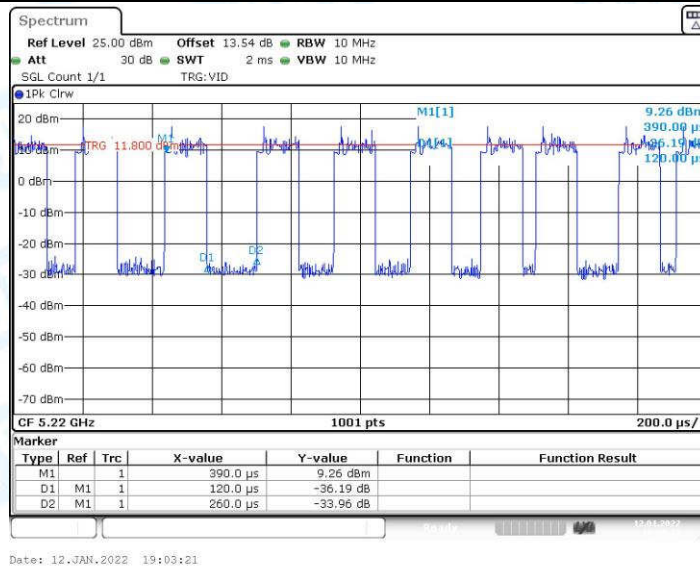
11A\_Ant1\_5785



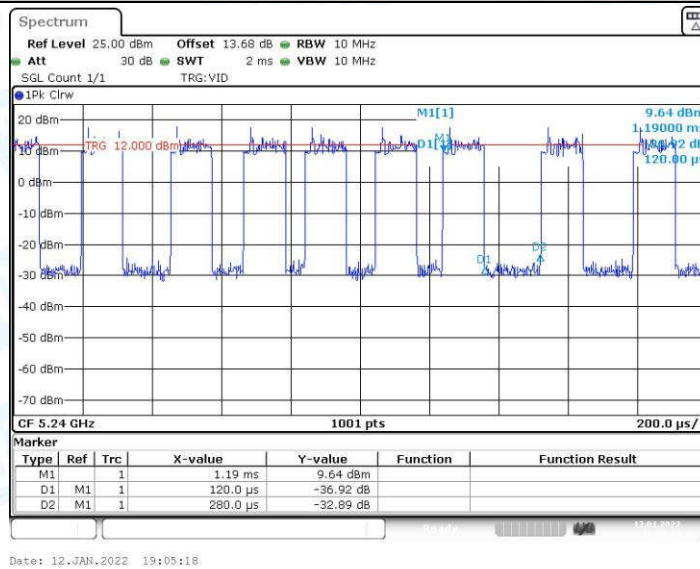
11A\_Ant1\_5825



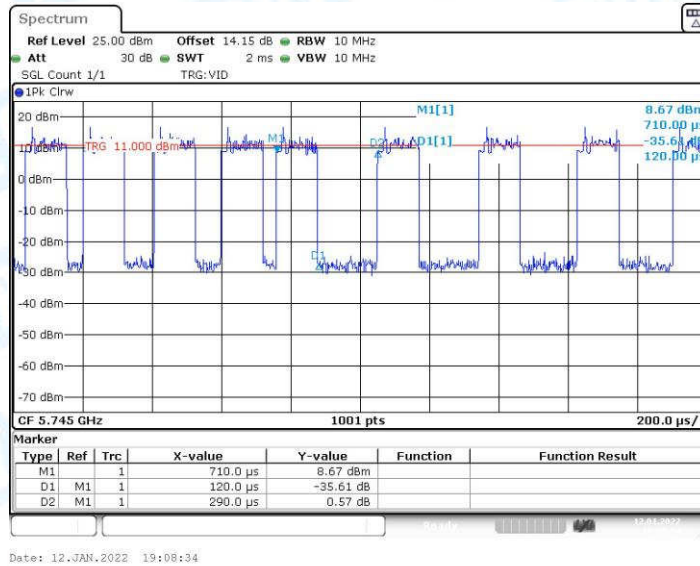
## 11N20SISO\_Ant1\_5180



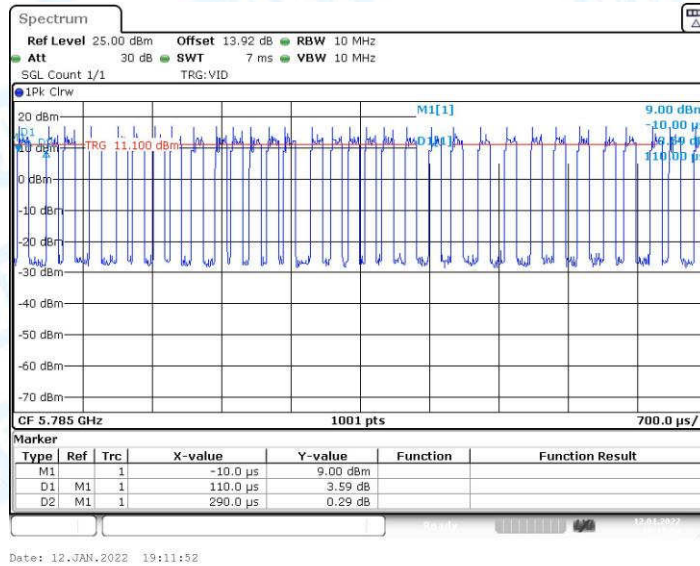
## 11N20SISO\_Ant1\_5220



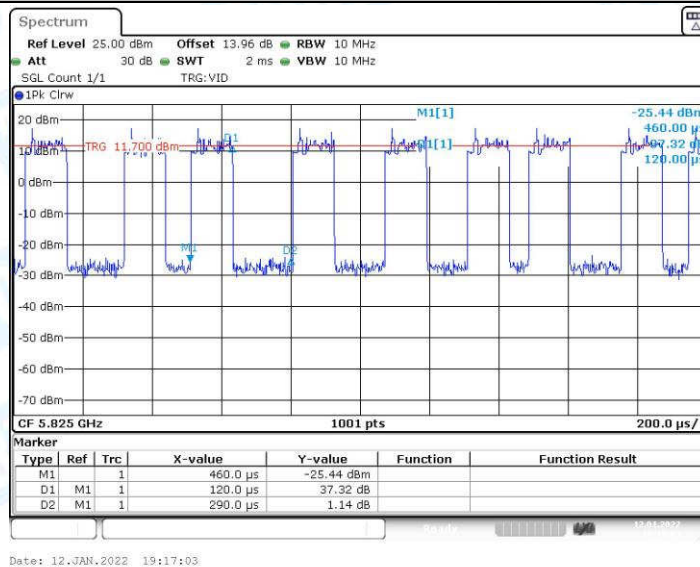
## 11N20SISO\_Ant1\_5240



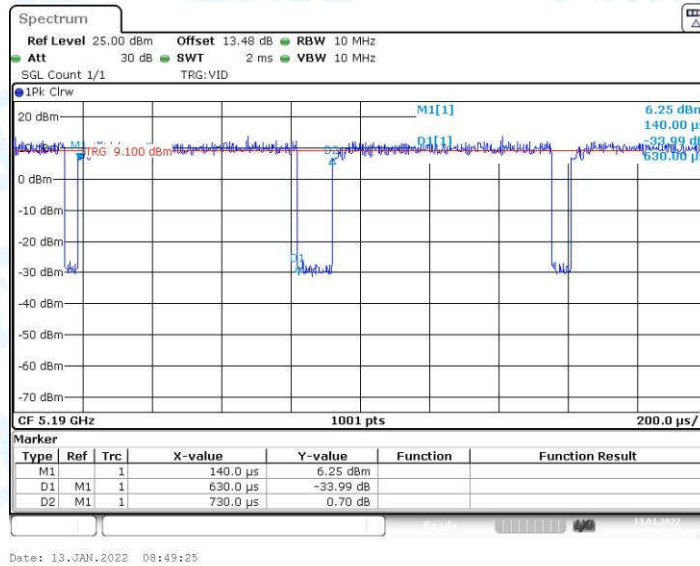
## 11N20SISO\_Ant1\_5745



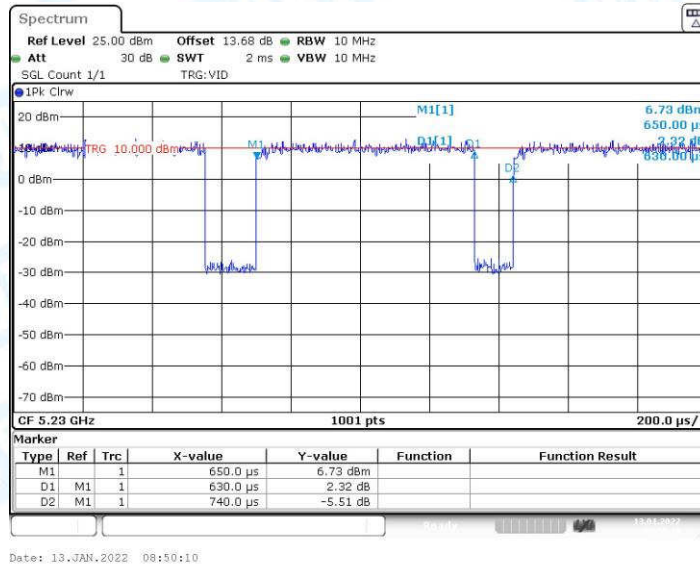
## 11N20SISO\_Ant1\_5785



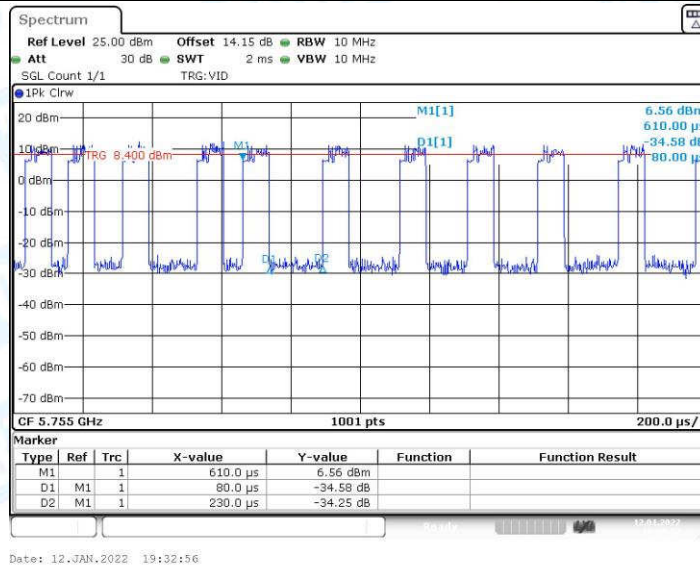
## 11N20SISO\_Ant1\_5825



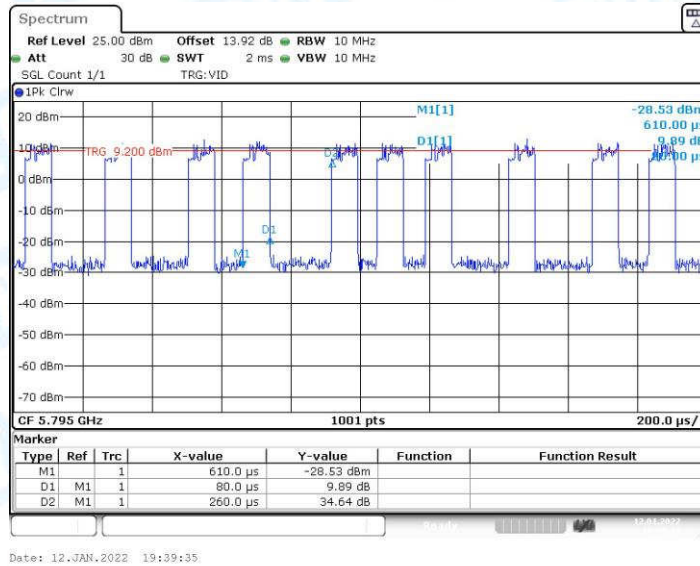
## 11N40SISO\_Ant1\_5190



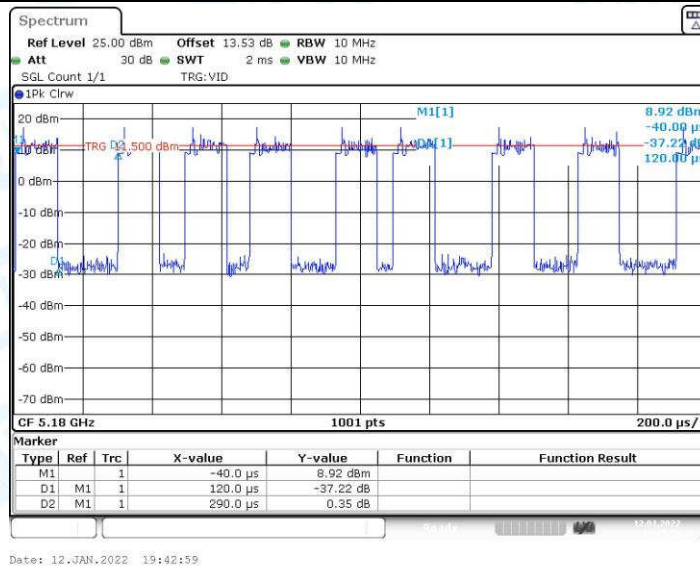
## 11N40SISO\_Ant1\_5230



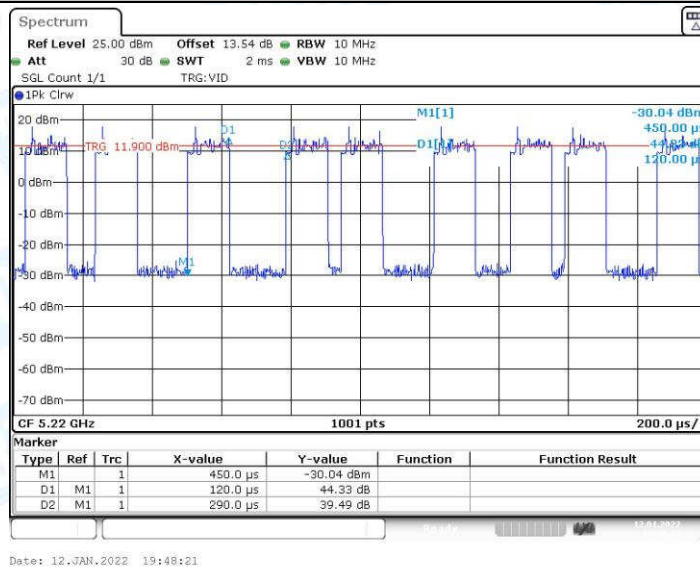
## 11N40SISO\_Ant1\_5755



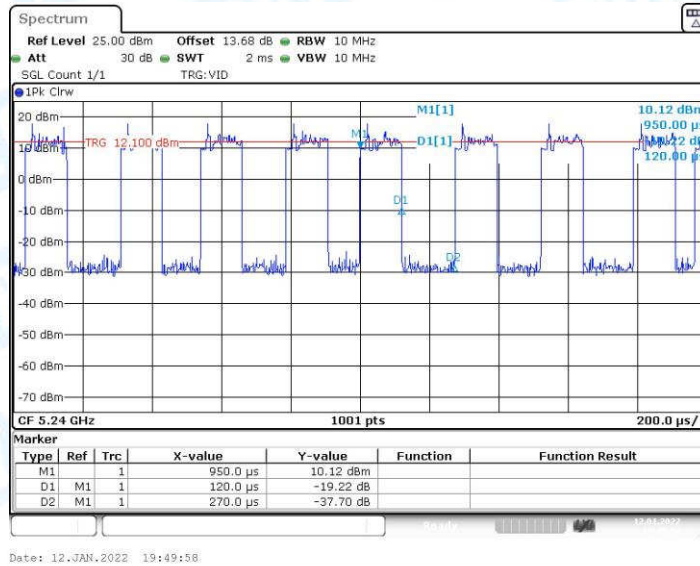
## 11N40SISO\_Ant1\_5795



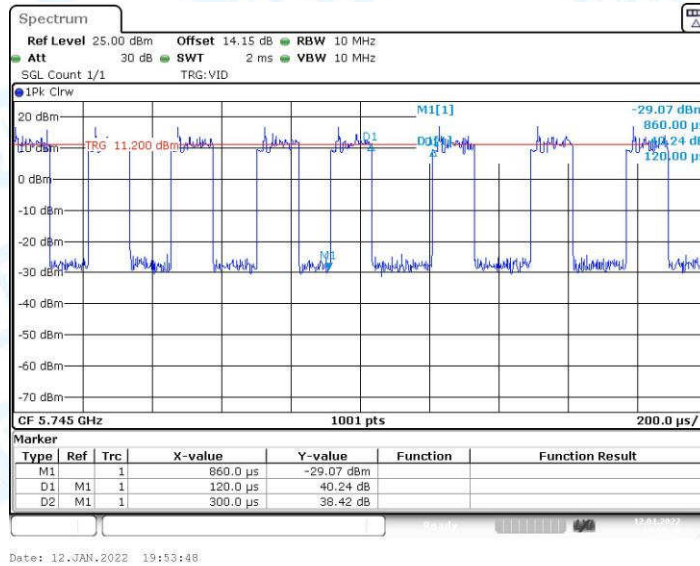
## 11AC20SISO\_Ant1\_5180



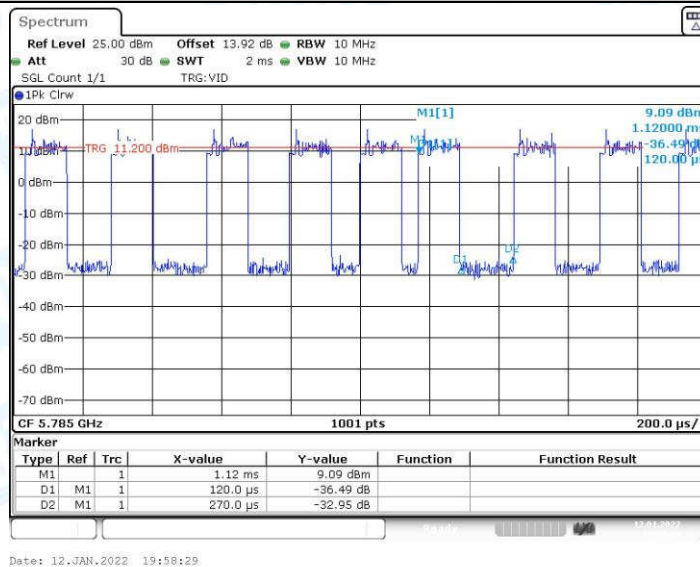
## 11AC20SISO\_Ant1\_5220



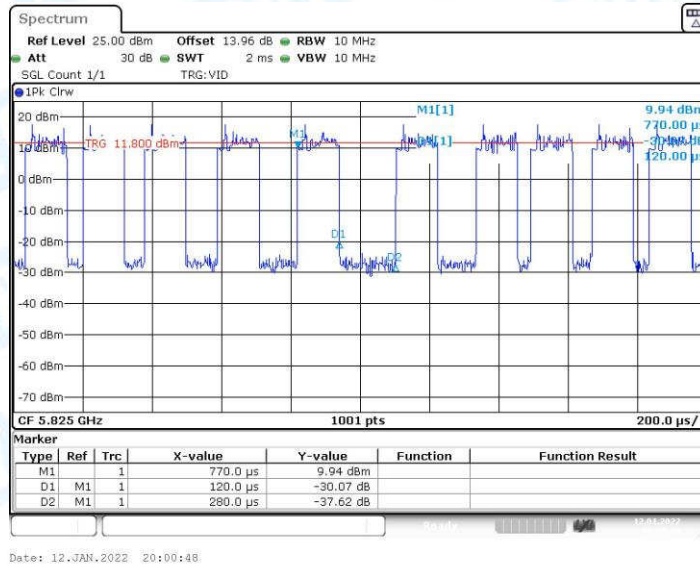
## 11AC20SISO\_Ant1\_5240



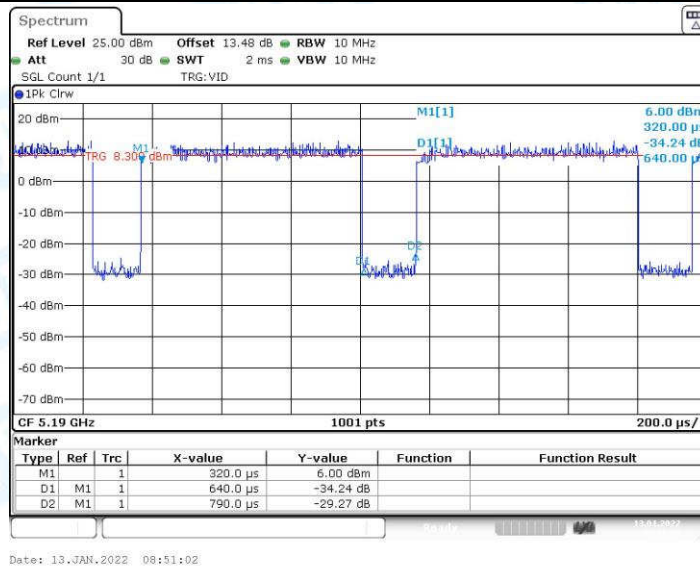
## 11AC20SISO\_Ant1\_5745



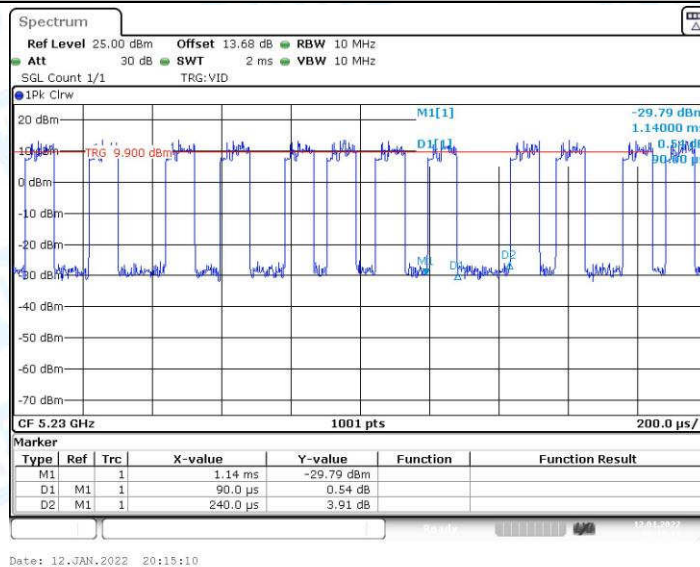
## 11AC20SISO\_Ant1\_5785



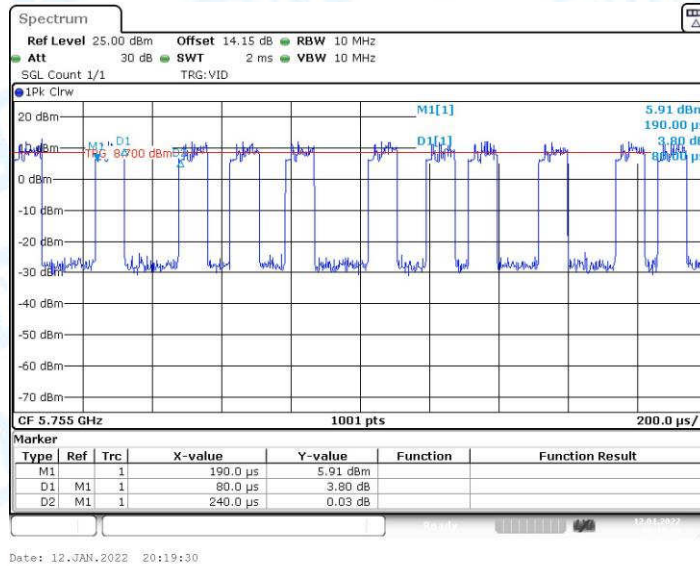
## 11AC20SISO\_Ant1\_5825



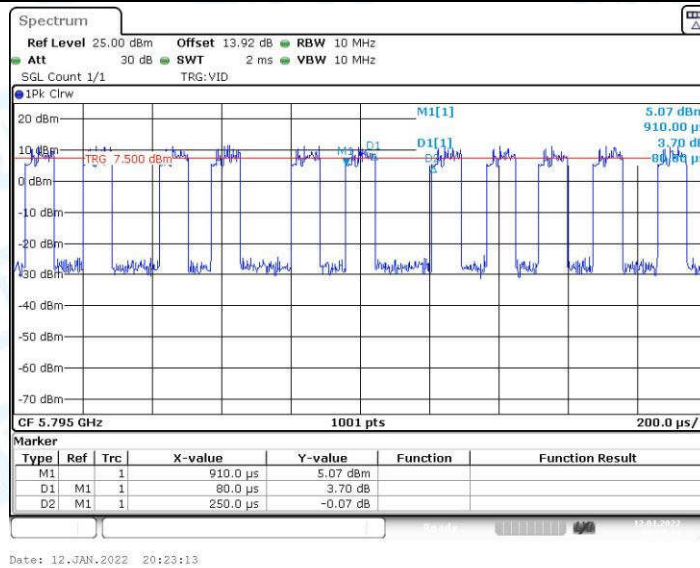
## 11AC40SISO\_Ant1\_5190



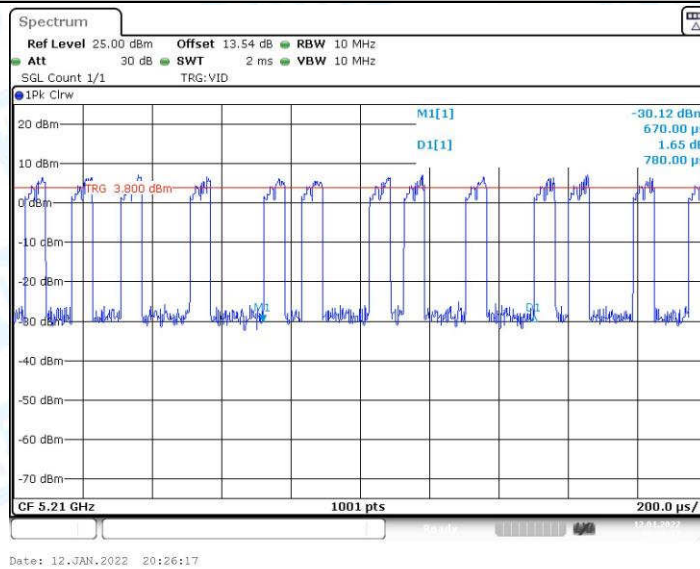
## 11AC40SISO\_Ant1\_5230



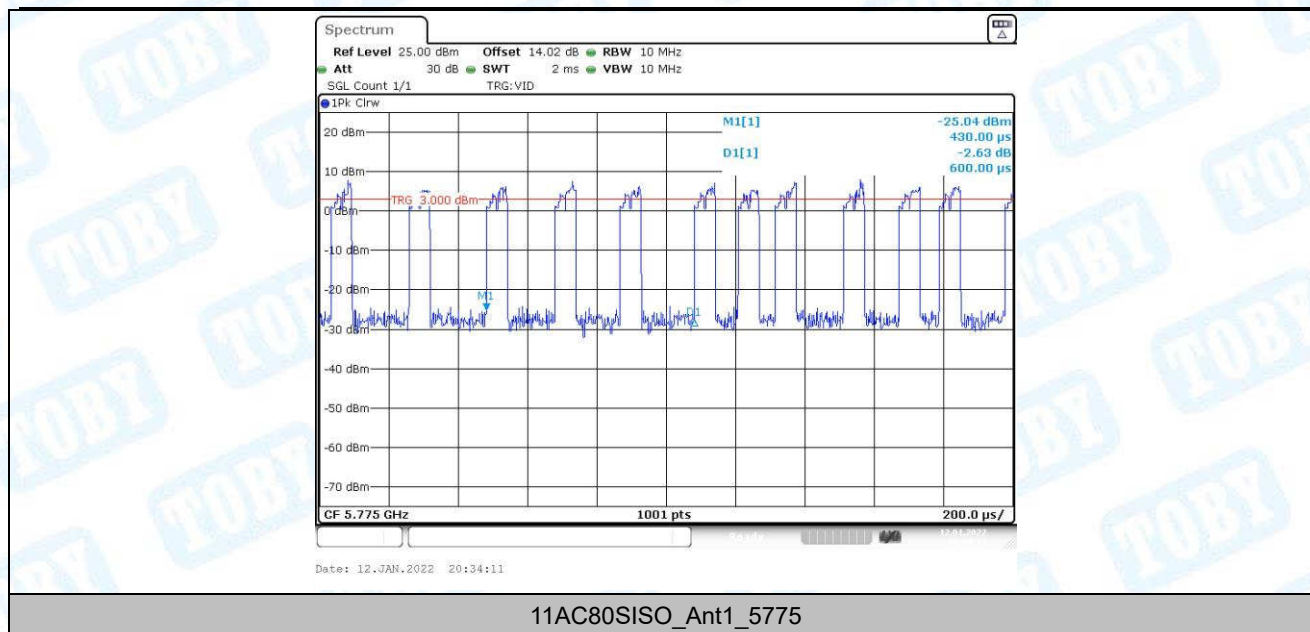
## 11AC40SISO\_Ant1\_5755



## 11AC40SISO\_Ant1\_5795



## 11AC80SISO\_Ant1\_5210



-----End of the report-----