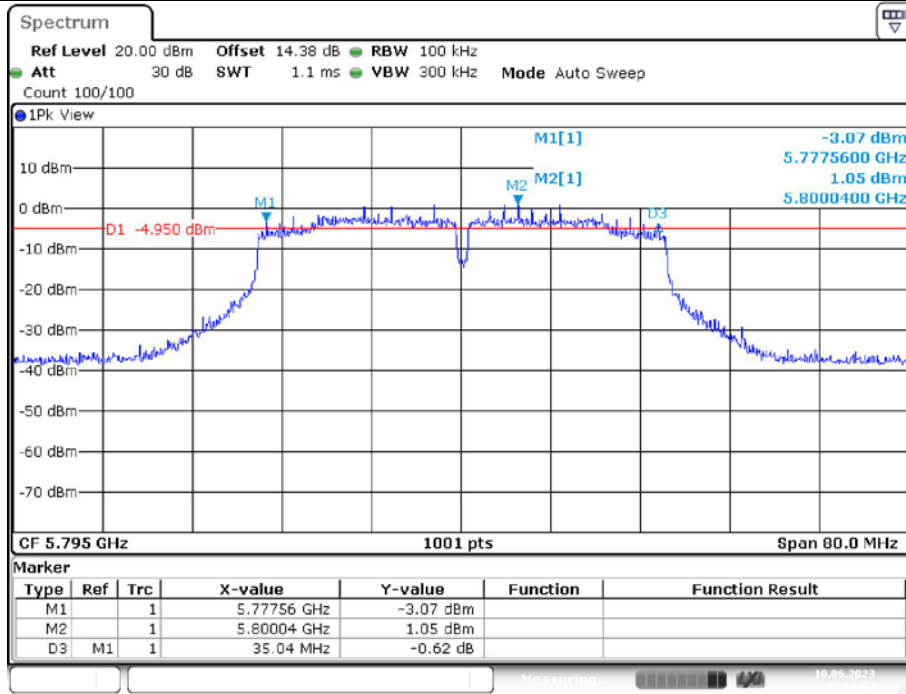
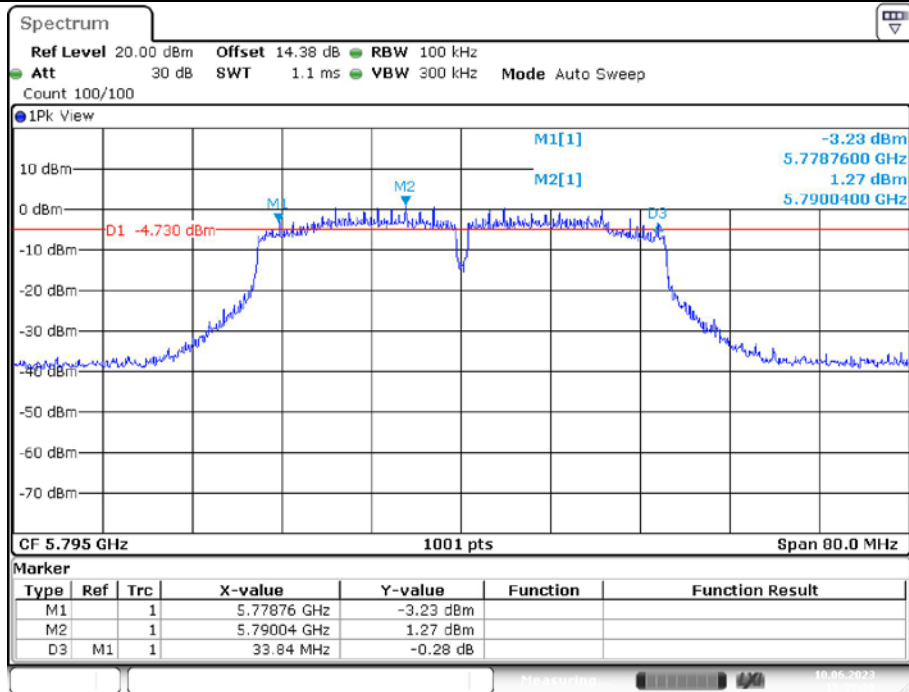


## 11AC40MIMO\_Ant1\_5795

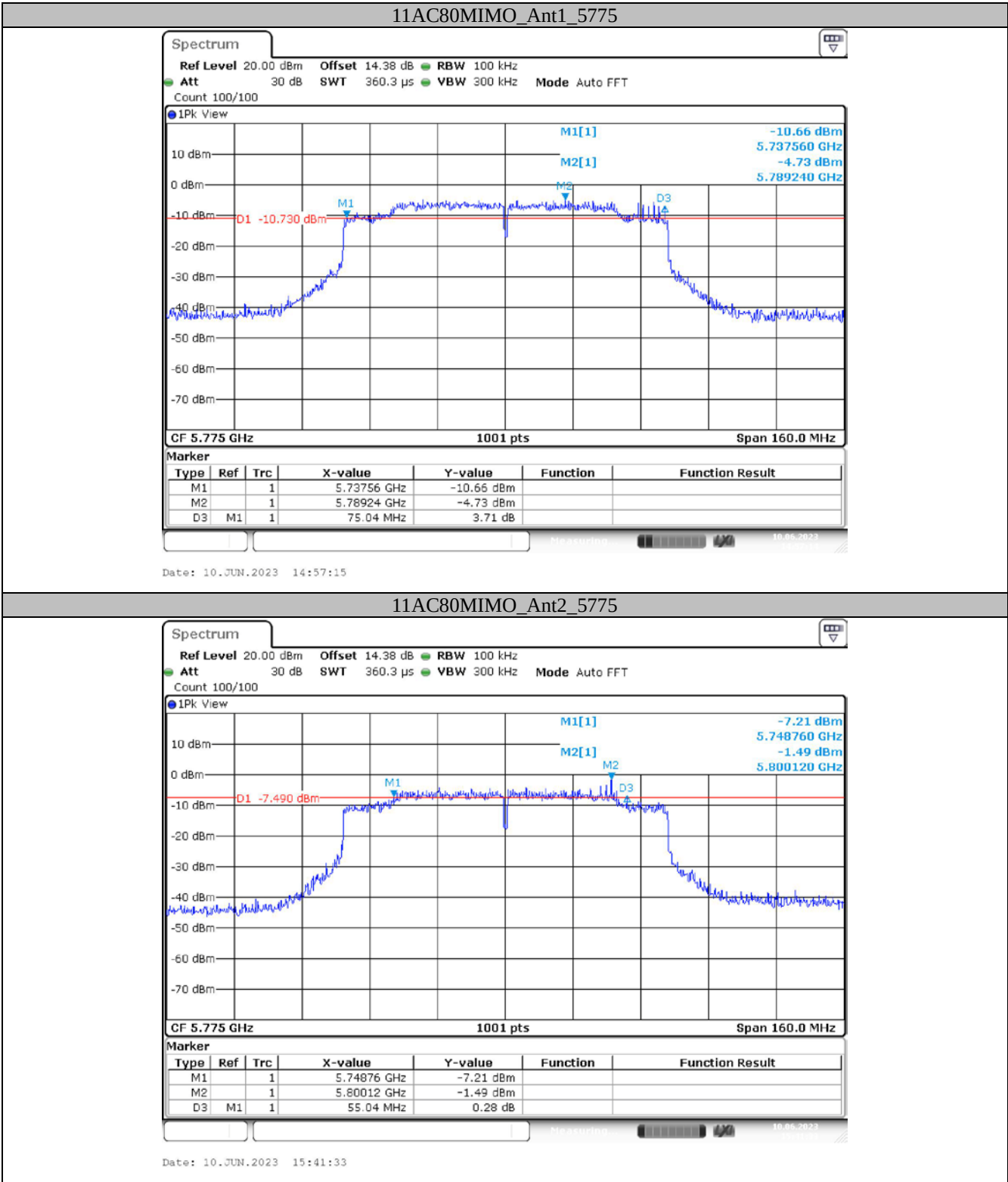


Date: 10.JUN.2023 14:54:02

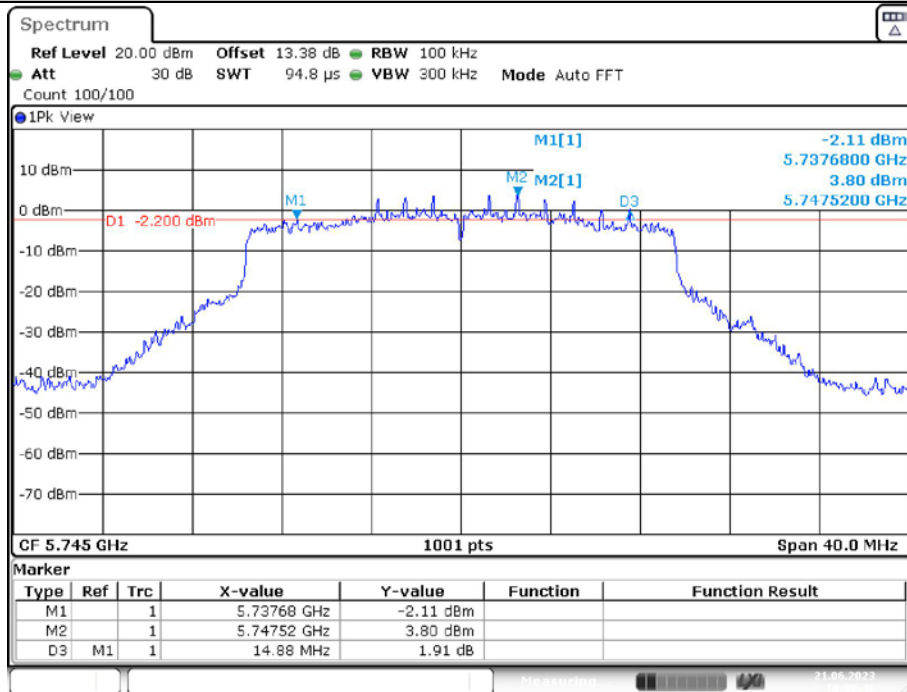
## 11AC40MIMO\_Ant2\_5795



Date: 10.JUN.2023 15:39:21

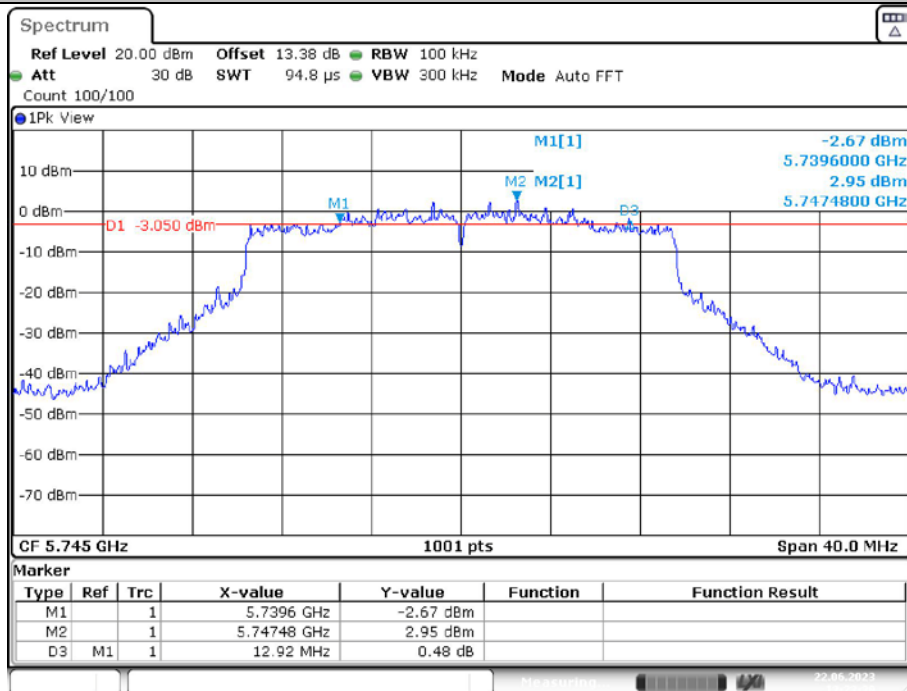


## 11AX20SISO\_Ant1\_5745

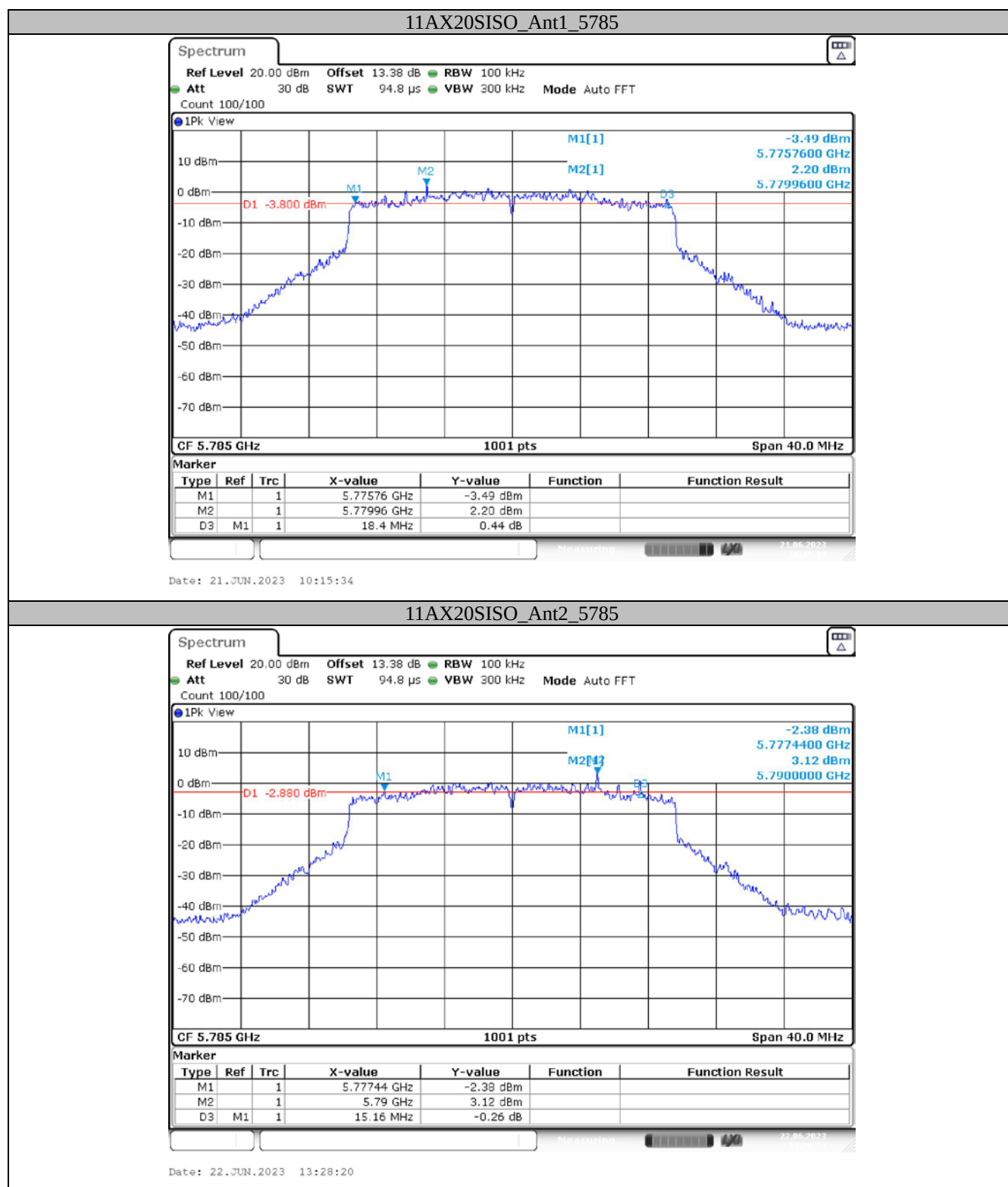


Date: 21.JUN.2023 10:08:46

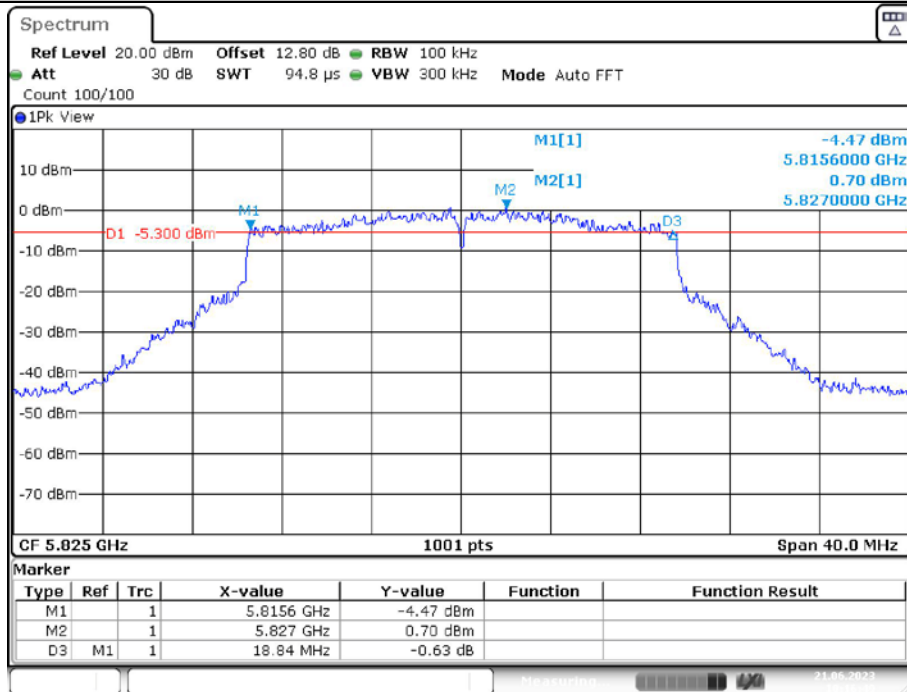
## 11AX20SISO\_Ant2\_5745



Date: 22.JUN.2023 13:23:29

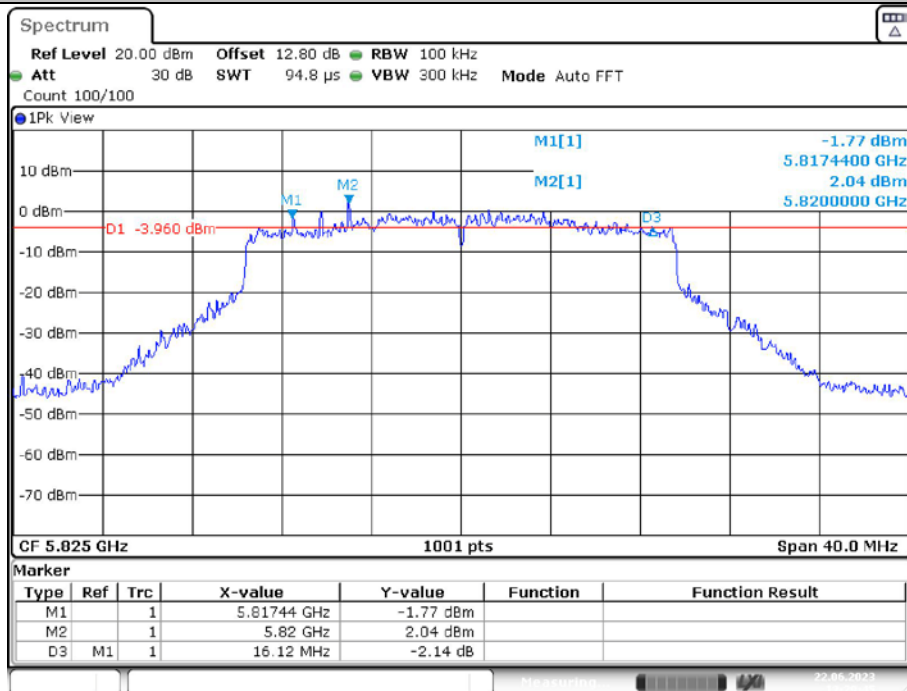


## 11AX20SISO\_Ant1\_5825



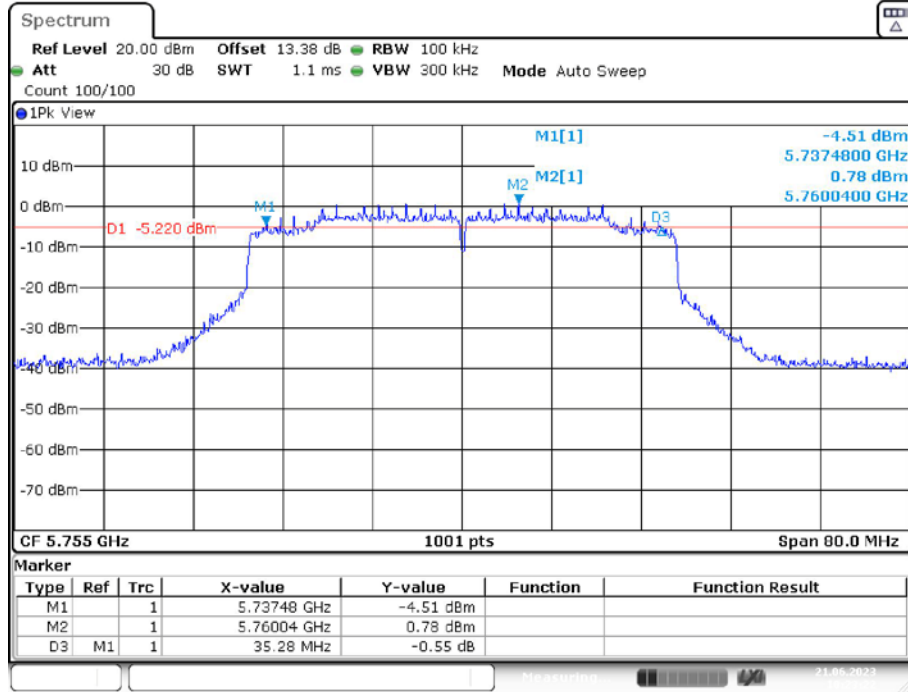
Date: 21.JUN.2023 10:16:49

## 11AX20SISO\_Ant2\_5825



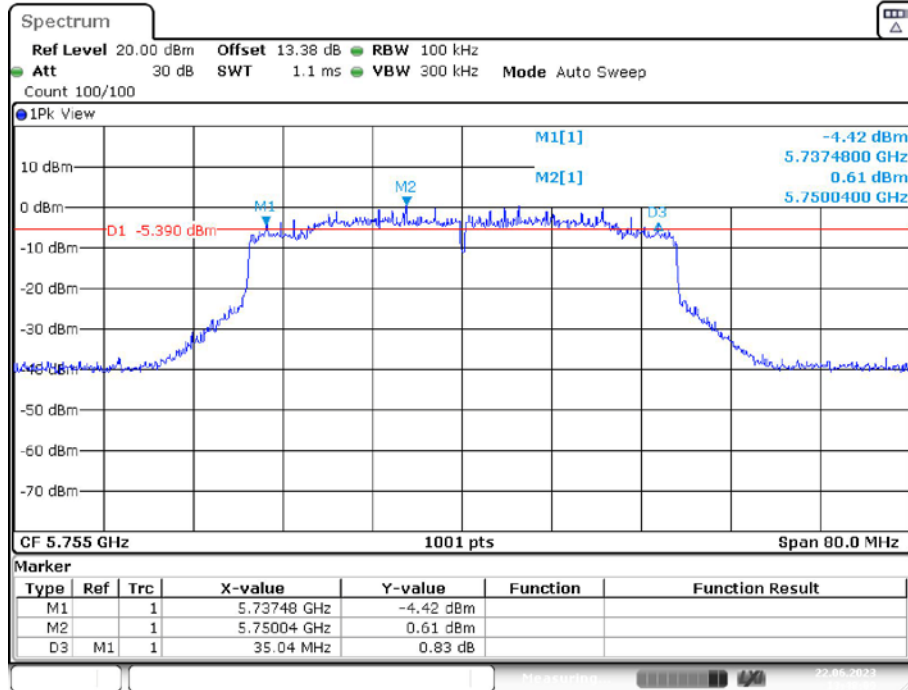
Date: 22.JUN.2023 13:29:45

## 11AX40SISO\_Ant1\_5755

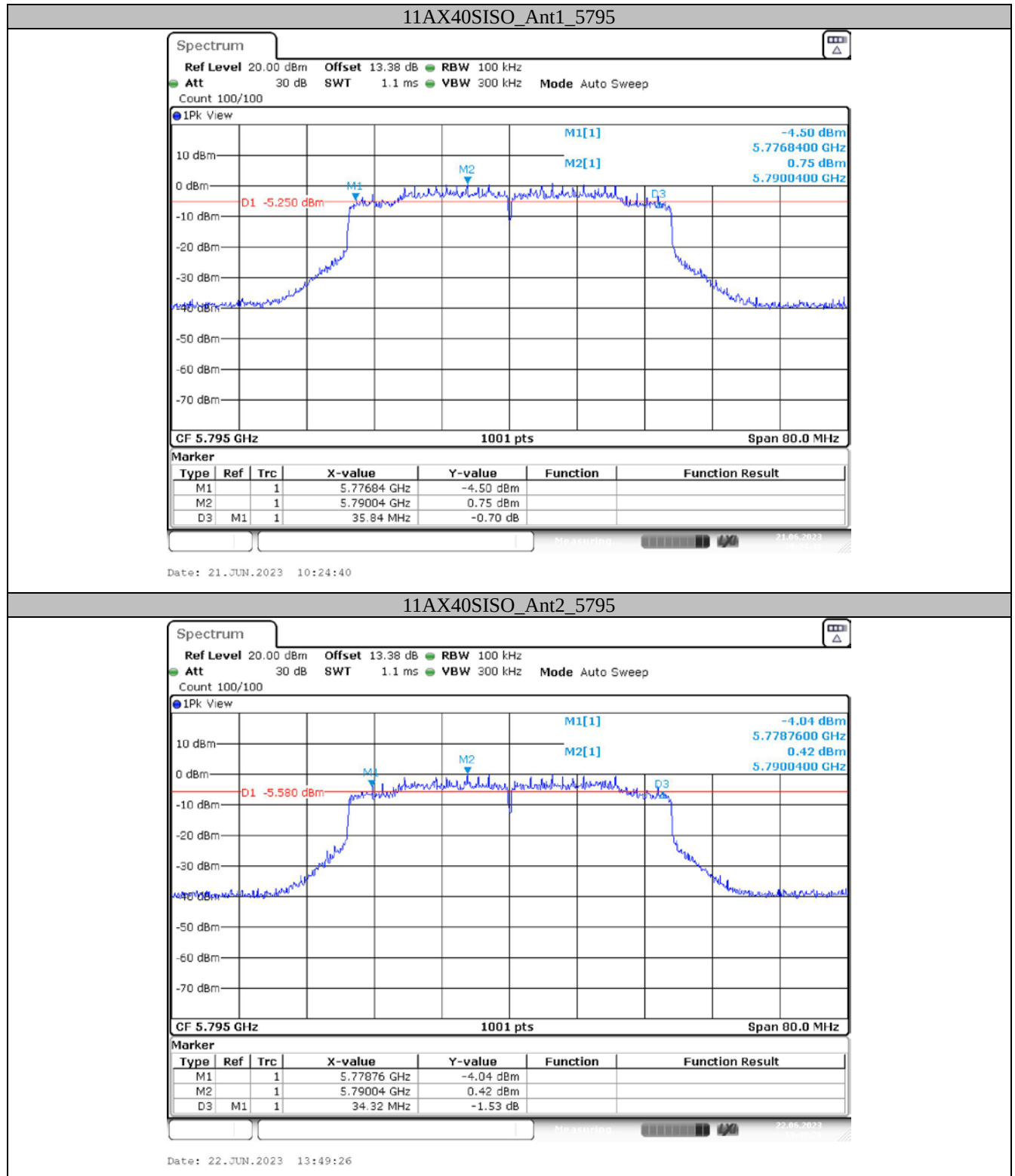


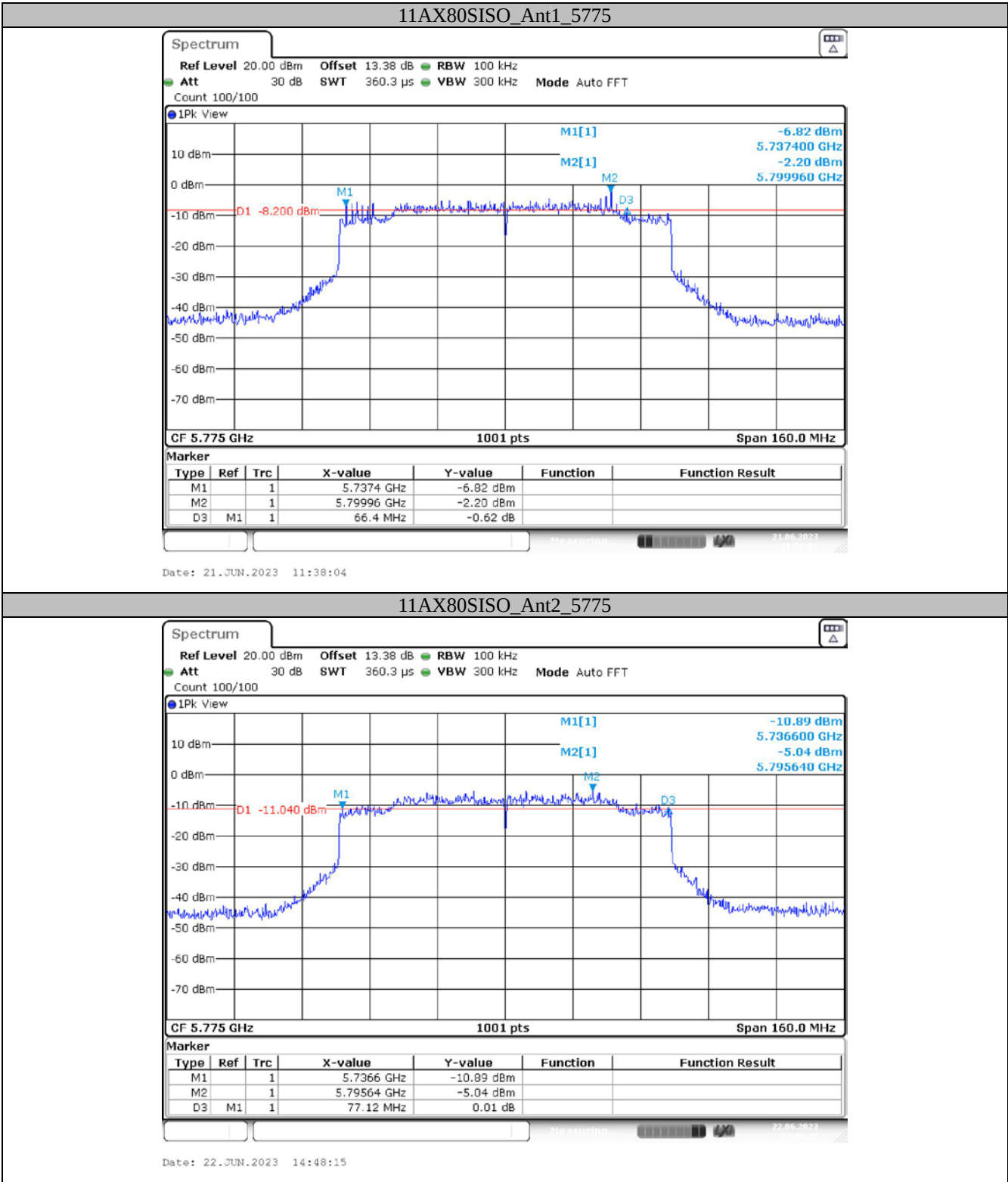
Date: 21.JUN.2023 10:23:22

## 11AX40SISO\_Ant2\_5755



Date: 22.JUN.2023 13:48:09







**Appendix B: Maximum Conducted Average Output Power****5150-5250 MHz**

| Test Mode  | Channel | Antenna | Result[dBm]  | Limit[dBm] | Verdict |
|------------|---------|---------|--------------|------------|---------|
| 11A MIMO   | 5180    | Ant1    | 11.51        | <=23.98    | PASS    |
|            |         | Ant2    | 12.06        | <=23.98    | PASS    |
|            |         | Total   | 14.80        | <=23.98    | PASS    |
|            | 5200    | Ant1    | 11.81        | <=23.98    | PASS    |
|            |         | Ant2    | 12.36        | <=23.98    | PASS    |
|            |         | Total   | <b>15.10</b> | <=23.98    | PASS    |
|            | 5240    | Ant1    | 11.79        | <=23.98    | PASS    |
|            |         | Ant2    | 11.95        | <=23.98    | PASS    |
|            |         | Total   | 14.88        | <=23.98    | PASS    |
| 11N20MIMO  | 5180    | Ant1    | 11.55        | <=23.98    | PASS    |
|            |         | Ant2    | 11.42        | <=23.98    | PASS    |
|            |         | Total   | 14.50        | <=23.98    | PASS    |
|            | 5200    | Ant1    | 11.88        | <=23.98    | PASS    |
|            |         | Ant2    | 11.77        | <=23.98    | PASS    |
|            |         | Total   | 14.84        | <=23.98    | PASS    |
|            | 5240    | Ant1    | 11.88        | <=23.98    | PASS    |
|            |         | Ant2    | 11.87        | <=23.98    | PASS    |
|            |         | Total   | <b>14.89</b> | <=23.98    | PASS    |
| 11N40MIMO  | 5190    | Ant1    | 12.52        | <=23.98    | PASS    |
|            |         | Ant2    | 12.31        | <=23.98    | PASS    |
|            |         | Total   | <b>15.43</b> | <=23.98    | PASS    |
|            | 5230    | Ant1    | 11.30        | <=23.98    | PASS    |
|            |         | Ant2    | 11.30        | <=23.98    | PASS    |
|            |         | Total   | 14.31        | <=23.98    | PASS    |
| 11AC20MIMO | 5180    | Ant1    | 11.58        | <=23.98    | PASS    |
|            |         | Ant2    | 11.54        | <=23.98    | PASS    |
|            |         | Total   | 14.57        | <=23.98    | PASS    |
|            | 5200    | Ant1    | 11.90        | <=23.98    | PASS    |
|            |         | Ant2    | 11.88        | <=23.98    | PASS    |
|            |         | Total   | 14.90        | <=23.98    | PASS    |
|            | 5240    | Ant1    | 11.86        | <=23.98    | PASS    |
|            |         | Ant2    | 12.02        | <=23.98    | PASS    |
|            |         | Total   | <b>14.95</b> | <=23.98    | PASS    |
| 11AC40MIMO | 5190    | Ant1    | 12.56        | <=23.98    | PASS    |
|            |         | Ant2    | 12.34        | <=23.98    | PASS    |
|            |         | Total   | <b>15.46</b> | <=23.98    | PASS    |
|            | 5230    | Ant1    | 11.29        | <=23.98    | PASS    |
|            |         | Ant2    | 11.42        | <=23.98    | PASS    |
|            |         | Total   | 14.37        | <=23.98    | PASS    |
| 11AC80MIMO | 5210    | Ant1    | 13.28        | <=23.98    | PASS    |
|            |         | Ant2    | 13.43        | <=23.98    | PASS    |
|            |         | Total   | <b>16.37</b> | <=23.98    | PASS    |

| Test Mode  | Tone | RU Index | Channel | Antenna | Result[dBm] | Limit[dBm] | Verdict |
|------------|------|----------|---------|---------|-------------|------------|---------|
| 11AX20MIMO | 26   | 0        | 5180    | Ant1    | 1.58        | <=23.98    | PASS    |
|            |      |          |         | Ant2    | 1.76        | <=23.98    | PASS    |
|            |      |          |         | Total   | 4.68        | <=23.98    | PASS    |
|            |      | 5200     | 5200    | Ant1    | 1.55        | <=23.98    | PASS    |
|            |      |          |         | Ant2    | 1.79        | <=23.98    | PASS    |
|            |      |          |         | Total   | 4.68        | <=23.98    | PASS    |
|            |      | 8        | 5240    | Ant1    | 2.65        | <=23.98    | PASS    |
|            |      |          |         | Ant2    | 2.17        | <=23.98    | PASS    |
|            |      |          |         | Total   | 5.43        | <=23.98    | PASS    |
|            | 52   | 37       | 5180    | Ant1    | 4.98        | <=23.98    | PASS    |
|            |      |          |         | Ant2    | 5.04        | <=23.98    | PASS    |
|            |      |          |         | Total   | 8.02        | <=23.98    | PASS    |
|            |      | 5200     | 5200    | Ant1    | 4.94        | <=23.98    | PASS    |
|            |      |          |         | Ant2    | 5.01        | <=23.98    | PASS    |
|            |      |          |         | Total   | 7.99        | <=23.98    | PASS    |
|            |      | 40       | 5240    | Ant1    | 5.94        | <=23.98    | PASS    |
|            |      |          |         | Ant2    | 5.45        | <=23.98    | PASS    |
|            |      |          |         | Total   | 8.71        | <=23.98    | PASS    |
|            | 106  | 53       | 5180    | Ant1    | 8.13        | <=23.98    | PASS    |
|            |      |          |         | Ant2    | 8.2         | <=23.98    | PASS    |
|            |      |          |         | Total   | 11.18       | <=23.98    | PASS    |
|            |      | 5200     | 5200    | Ant1    | 8.05        | <=23.98    | PASS    |
|            |      |          |         | Ant2    | 8.23        | <=23.98    | PASS    |
|            |      |          |         | Total   | 11.15       | <=23.98    | PASS    |
|            |      | 54       | 5240    | Ant1    | 9           | <=23.98    | PASS    |
|            |      |          |         | Ant2    | 8.79        | <=23.98    | PASS    |
|            |      |          |         | Total   | 11.91       | <=23.98    | PASS    |
|            | 242  | 61       | 5180    | Ant1    | 11.54       | <=23.98    | PASS    |
|            |      |          |         | Ant2    | 11.69       | <=23.98    | PASS    |
|            |      |          |         | Total   | 14.63       | <=23.98    | PASS    |
|            |      | 5200     | 5200    | Ant1    | 11.48       | <=23.98    | PASS    |
|            |      |          |         | Ant2    | 11.51       | <=23.98    | PASS    |
|            |      |          |         | Total   | 14.51       | <=23.98    | PASS    |
|            |      | 5240     | 5240    | Ant1    | 12.16       | <=23.98    | PASS    |
|            |      |          |         | Ant2    | 12.2        | <=23.98    | PASS    |
|            |      |          |         | Total   | 15.19       | <=23.98    | PASS    |

| Test Mode  | Tone | RU Index | Channel | Antenna | Result[dBm]  | Limit[dBm] | Verdict |
|------------|------|----------|---------|---------|--------------|------------|---------|
| 11AX40MIMO | 26   | 0        | 5190    | Ant1    | -1.47        | <=23.98    | PASS    |
|            |      |          |         | Ant2    | -1.7         | <=23.98    | PASS    |
|            |      |          |         | Total   | 1.43         | <=23.98    | PASS    |
|            |      | 17       | 5230    | Ant1    | -1.56        | <=23.98    | PASS    |
|            |      |          |         | Ant2    | -1.9         | <=23.98    | PASS    |
|            |      |          |         | Total   | 1.28         | <=23.98    | PASS    |
|            | 52   | 37       | 5190    | Ant1    | 2.01         | <=23.98    | PASS    |
|            |      |          |         | Ant2    | 2.5          | <=23.98    | PASS    |
|            |      |          |         | Total   | 5.27         | <=23.98    | PASS    |
|            |      | 44       | 5230    | Ant1    | 1.26         | <=23.98    | PASS    |
|            |      |          |         | Ant2    | 1.38         | <=23.98    | PASS    |
|            |      |          |         | Total   | 4.33         | <=23.98    | PASS    |
|            | 106  | 53       | 5190    | Ant1    | 5.13         | <=23.98    | PASS    |
|            |      |          |         | Ant2    | 5.03         | <=23.98    | PASS    |
|            |      |          |         | Total   | 8.09         | <=23.98    | PASS    |
|            |      | 56       | 5230    | Ant1    | 4.36         | <=23.98    | PASS    |
|            |      |          |         | Ant2    | 4.21         | <=23.98    | PASS    |
|            |      |          |         | Total   | 7.30         | <=23.98    | PASS    |
|            | 242  | 61       | 5190    | Ant1    | 8.66         | <=23.98    | PASS    |
|            |      |          |         | Ant2    | 8.25         | <=23.98    | PASS    |
|            |      |          |         | Total   | 11.47        | <=23.98    | PASS    |
|            |      | 62       | 5230    | Ant1    | 7.5          | <=23.98    | PASS    |
|            |      |          |         | Ant2    | 7.56         | <=23.98    | PASS    |
|            |      |          |         | Total   | 10.54        | <=23.98    | PASS    |
|            | 484  | 65       | 5190    | Ant1    | 11.75        | <=23.98    | PASS    |
|            |      |          |         | Ant2    | 11.6         | <=23.98    | PASS    |
|            |      |          |         | Total   | <b>14.69</b> | <=23.98    | PASS    |
|            |      |          | 5230    | Ant1    | 10.6         | <=23.98    | PASS    |
|            |      |          |         | Ant2    | 10.57        | <=23.98    | PASS    |
|            |      |          |         | Total   | 13.60        | <=23.98    | PASS    |

| Test Mode  | Tone | RU Index | Channel | Antenna | Result[dBm] | Limit[dBm] | Verdict |
|------------|------|----------|---------|---------|-------------|------------|---------|
| 11AX80MIMO | 26   | 0        | 5210    | Ant1    | -2.58       | <=23.98    | PASS    |
|            |      |          |         | Ant2    | -2.86       | <=23.98    | PASS    |
|            |      |          |         | Total   | 0.29        | <=23.98    | PASS    |
|            | 52   | 37       | 5210    | Ant1    | 0.15        | <=23.98    | PASS    |
|            |      |          |         | Ant2    | 0.22        | <=23.98    | PASS    |
|            |      |          |         | Total   | 3.20        | <=23.98    | PASS    |
|            | 106  | 53       | 5210    | Ant1    | 3.3         | <=23.98    | PASS    |
|            |      |          |         | Ant2    | 3.44        | <=23.98    | PASS    |
|            |      |          |         | Total   | 6.38        | <=23.98    | PASS    |
|            | 242  | 61       | 5210    | Ant1    | 6.51        | <=23.98    | PASS    |
|            |      |          |         | Ant2    | 6.4         | <=23.98    | PASS    |
|            |      |          |         | Total   | 9.47        | <=23.98    | PASS    |
|            | 484  | 65       | 5210    | Ant1    | 9.68        | <=23.98    | PASS    |
|            |      |          |         | Ant2    | 9.43        | <=23.98    | PASS    |
|            |      |          |         | Total   | 12.57       | <=23.98    | PASS    |
|            | 996  | 67       | 5210    | Ant1    | 12.78       | <=23.98    | PASS    |
|            |      |          |         | Ant2    | 12.5        | <=23.98    | PASS    |
|            |      |          |         | Total   | 15.65       | <=23.98    | PASS    |

Note 1: The device is client.

Note 2: The maximum antenna gain is 3.80 dBi.

Note 3: The Duty Cycle Factor is compensated in the Result.

The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power measurements on IEEE 802.11 devices:

Array Gain = 0dB (i.e., no array gain) For  $N_{ANT} \leq 4$ ;

So: Directional gain=3.80dBi <6dBi

## 5725-5850 MHz

| Test Mode  | Channel | Antenna | Result[dBm]  | Limit[dBm] | Verdict |
|------------|---------|---------|--------------|------------|---------|
| 11A MIMO   | 5745    | Ant1    | 14.09        | <=30       | PASS    |
|            |         | Ant2    | 13.9         | <=30       | PASS    |
|            |         | Total   | 17.01        | <=30       | PASS    |
|            | 5785    | Ant1    | 14.15        | <=30       | PASS    |
|            |         | Ant2    | 13.88        | <=30       | PASS    |
|            |         | Total   | <b>17.03</b> | <=30       | PASS    |
|            | 5825    | Ant1    | 13.37        | <=30       | PASS    |
|            |         | Ant2    | 13.05        | <=30       | PASS    |
|            |         | Total   | 16.22        | <=30       | PASS    |
| 11N20MIMO  | 5745    | Ant1    | 14.04        | <=30       | PASS    |
|            |         | Ant2    | 13.7         | <=30       | PASS    |
|            |         | Total   | <b>16.88</b> | <=30       | PASS    |
|            | 5785    | Ant1    | 14.04        | <=30       | PASS    |
|            |         | Ant2    | 13.7         | <=30       | PASS    |
|            |         | Total   | 16.88        | <=30       | PASS    |
|            | 5825    | Ant1    | 13.34        | <=30       | PASS    |
|            |         | Ant2    | 12.89        | <=30       | PASS    |
|            |         | Total   | 16.13        | <=30       | PASS    |
| 11N40MIMO  | 5755    | Ant1    | 14.83        | <=30       | PASS    |
|            |         | Ant2    | 14.33        | <=30       | PASS    |
|            |         | Total   | <b>17.60</b> | <=30       | PASS    |
|            | 5795    | Ant1    | 14.44        | <=30       | PASS    |
|            |         | Ant2    | 14.07        | <=30       | PASS    |
|            |         | Total   | 17.27        | <=30       | PASS    |
| 11AC20MIMO | 5745    | Ant1    | 14.04        | <=30       | PASS    |
|            |         | Ant2    | 13.78        | <=30       | PASS    |
|            |         | Total   | <b>16.92</b> | <=30       | PASS    |
|            | 5785    | Ant1    | 14.1         | <=30       | PASS    |
|            |         | Ant2    | 13.69        | <=30       | PASS    |
|            |         | Total   | 16.91        | <=30       | PASS    |
|            | 5825    | Ant1    | 13.33        | <=30       | PASS    |
|            |         | Ant2    | 12.94        | <=30       | PASS    |
|            |         | Total   | 16.15        | <=30       | PASS    |
| 11AC40MIMO | 5755    | Ant1    | 14.81        | <=30       | PASS    |
|            |         | Ant2    | 14.42        | <=30       | PASS    |
|            |         | Total   | <b>17.63</b> | <=30       | PASS    |
|            | 5795    | Ant1    | 14.49        | <=30       | PASS    |
|            |         | Ant2    | 14.05        | <=30       | PASS    |
|            |         | Total   | 17.29        | <=30       | PASS    |
| 11AC80MIMO | 5775    | Ant1    | 14.62        | <=30       | PASS    |
|            |         | Ant2    | 14.45        | <=30       | PASS    |
|            |         | Total   | <b>17.55</b> | <=30       | PASS    |

| Test Mode  | Tone | RU Index | Channel | Antenna | Result[dBm]  | Limit[dBm] | Verdict |
|------------|------|----------|---------|---------|--------------|------------|---------|
| 11AX20MIMO | 26   | 0        | 5745    | Ant1    | 3.48         | <=30       | PASS    |
|            |      |          |         | Ant2    | 3.78         | <=30       | PASS    |
|            |      |          |         | Total   | 6.64         | <=30       | PASS    |
|            |      |          | 5785    | Ant1    | 3.58         | <=30       | PASS    |
|            |      |          |         | Ant2    | 3.5          | <=30       | PASS    |
|            |      |          |         | Total   | 6.55         | <=30       | PASS    |
|            |      | 8        | 5825    | Ant1    | 2.92         | <=30       | PASS    |
|            |      |          |         | Ant2    | 3.32         | <=30       | PASS    |
|            |      |          |         | Total   | 6.13         | <=30       | PASS    |
|            | 52   | 37       | 5745    | Ant1    | 6.63         | <=30       | PASS    |
|            |      |          |         | Ant2    | 6.49         | <=30       | PASS    |
|            |      |          |         | Total   | 9.57         | <=30       | PASS    |
|            |      |          | 5785    | Ant1    | 6.79         | <=30       | PASS    |
|            |      |          |         | Ant2    | 6.23         | <=30       | PASS    |
|            |      |          |         | Total   | 9.53         | <=30       | PASS    |
|            |      | 40       | 5825    | Ant1    | 6.11         | <=30       | PASS    |
|            |      |          |         | Ant2    | 6.08         | <=30       | PASS    |
|            |      |          |         | Total   | 9.11         | <=30       | PASS    |
|            | 106  | 53       | 5745    | Ant1    | 10.44        | <=30       | PASS    |
|            |      |          |         | Ant2    | 10.22        | <=30       | PASS    |
|            |      |          |         | Total   | 13.34        | <=30       | PASS    |
|            |      |          | 5785    | Ant1    | 10.64        | <=30       | PASS    |
|            |      |          |         | Ant2    | 9.93         | <=30       | PASS    |
|            |      |          |         | Total   | 13.31        | <=30       | PASS    |
|            |      | 54       | 5825    | Ant1    | 10.09        | <=30       | PASS    |
|            |      |          |         | Ant2    | 9.7          | <=30       | PASS    |
|            |      |          |         | Total   | 12.91        | <=30       | PASS    |
|            | 242  | 61       | 5745    | Ant1    | 13.72        | <=30       | PASS    |
|            |      |          |         | Ant2    | 13.55        | <=30       | PASS    |
|            |      |          |         | Total   | 16.65        | <=30       | PASS    |
|            |      |          | 5785    | Ant1    | 13.86        | <=30       | PASS    |
|            |      |          |         | Ant2    | 13.43        | <=30       | PASS    |
|            |      |          |         | Total   | <b>16.66</b> | <=30       | PASS    |
|            |      |          | 5825    | Ant1    | 13.43        | <=30       | PASS    |
|            |      |          |         | Ant2    | 12.96        | <=30       | PASS    |
|            |      |          |         | Total   | 16.21        | <=30       | PASS    |

| Test Mode  | Tone | RU Index | Channel | Antenna | Result[dBm]  | Limit[dBm] | Verdict |
|------------|------|----------|---------|---------|--------------|------------|---------|
| 11AX40MIMO | 26   | 0        | 5755    | Ant1    | 1.29         | <=30       | PASS    |
|            |      |          |         | Ant2    | 0.69         | <=30       | PASS    |
|            |      |          |         | Total   | 4.01         | <=30       | PASS    |
|            |      | 17       | 5795    | Ant1    | 1.17         | <=30       | PASS    |
|            |      |          |         | Ant2    | 0.66         | <=30       | PASS    |
|            |      |          |         | Total   | 3.93         | <=30       | PASS    |
|            | 52   | 37       | 5755    | Ant1    | 4.81         | <=30       | PASS    |
|            |      |          |         | Ant2    | 4.3          | <=30       | PASS    |
|            |      |          |         | Total   | 7.57         | <=30       | PASS    |
|            |      | 44       | 5795    | Ant1    | 4.76         | <=30       | PASS    |
|            |      |          |         | Ant2    | 4.11         | <=30       | PASS    |
|            |      |          |         | Total   | 7.46         | <=30       | PASS    |
|            | 106  | 53       | 5755    | Ant1    | 7.21         | <=30       | PASS    |
|            |      |          |         | Ant2    | 7.16         | <=30       | PASS    |
|            |      |          |         | Total   | 10.20        | <=30       | PASS    |
|            |      | 56       | 5795    | Ant1    | 7.27         | <=30       | PASS    |
|            |      |          |         | Ant2    | 6.93         | <=30       | PASS    |
|            |      |          |         | Total   | 10.11        | <=30       | PASS    |
|            | 242  | 61       | 5755    | Ant1    | 10.64        | <=30       | PASS    |
|            |      |          |         | Ant2    | 10.2         | <=30       | PASS    |
|            |      |          |         | Total   | 13.44        | <=30       | PASS    |
|            |      | 62       | 5795    | Ant1    | 10.73        | <=30       | PASS    |
|            |      |          |         | Ant2    | 10.27        | <=30       | PASS    |
|            |      |          |         | Total   | 13.52        | <=30       | PASS    |
|            | 484  | 65       | 5755    | Ant1    | 14.07        | <=30       | PASS    |
|            |      |          |         | Ant2    | 13.51        | <=30       | PASS    |
|            |      |          |         | Total   | <b>16.81</b> | <=30       | PASS    |
|            |      |          | 5795    | Ant1    | 14.02        | <=30       | PASS    |
|            |      |          |         | Ant2    | 13.41        | <=30       | PASS    |
|            |      |          |         | Total   | 16.74        | <=30       | PASS    |

| Test Mode  | Tone | RU Index | Channel | Antenna | Result[dBm]  | Limit[dBm] | Verdict |
|------------|------|----------|---------|---------|--------------|------------|---------|
| 11AX80MIMO | 26   | 0        | 5775    | Ant1    | -1.99        | <=30       | PASS    |
|            |      |          |         | Ant2    | -2.74        | <=30       | PASS    |
|            |      |          |         | Total   | 0.66         | <=30       | PASS    |
|            | 52   | 37       | 5775    | Ant1    | 0.7          | <=30       | PASS    |
|            |      |          |         | Ant2    | 0.81         | <=30       | PASS    |
|            |      |          |         | Total   | 3.77         | <=30       | PASS    |
|            | 106  | 53       | 5775    | Ant1    | 3.68         | <=30       | PASS    |
|            |      |          |         | Ant2    | 4.07         | <=30       | PASS    |
|            |      |          |         | Total   | 6.89         | <=30       | PASS    |
|            | 242  | 61       | 5775    | Ant1    | 6.97         | <=30       | PASS    |
|            |      |          |         | Ant2    | 7.09         | <=30       | PASS    |
|            |      |          |         | Total   | 10.04        | <=30       | PASS    |
|            | 484  | 65       | 5775    | Ant1    | 10.36        | <=30       | PASS    |
|            |      |          |         | Ant2    | 10.18        | <=30       | PASS    |
|            |      |          |         | Total   | 13.28        | <=30       | PASS    |
|            | 996  | 67       | 5775    | Ant1    | 14.1         | <=30       | PASS    |
|            |      |          |         | Ant2    | 13.51        | <=30       | PASS    |
|            |      |          |         | Total   | <b>16.83</b> | <=30       | PASS    |

Note 1: The maximum antenna gain is 3.04 dBi.

Note 2: The Duty Cycle Factor is compensated in the Result.

The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power measurements on IEEE 802.11 devices:

Array Gain = 0dB (i.e., no array gain) For  $N_{ANT} \leq 4$ ;

So: Directional gain=3.04dBi <6dBi



**Appendix C: Maximum Power Spectral Density****5150-5250 MHz:**

| Test Mode  | Channel | Antenna | Result[dBm/MHz] | Limit[dBm/MHz] | Verdict |
|------------|---------|---------|-----------------|----------------|---------|
| 11A MIMO   | 5180    | Ant1    | 1.03            | <=10.19        | PASS    |
|            |         | Ant2    | 1.35            | <=10.19        | PASS    |
|            |         | Total   | 4.20            | <=10.19        | PASS    |
|            | 5200    | Ant1    | 1.2             | <=10.19        | PASS    |
|            |         | Ant2    | 1.66            | <=10.19        | PASS    |
|            |         | Total   | 4.45            | <=10.19        | PASS    |
|            | 5240    | Ant1    | 1.28            | <=10.19        | PASS    |
|            |         | Ant2    | 1.39            | <=10.19        | PASS    |
|            |         | Total   | 4.35            | <=10.19        | PASS    |
| 11N20MIMO  | 5180    | Ant1    | 0.73            | <=10.19        | PASS    |
|            |         | Ant2    | 0.6             | <=10.19        | PASS    |
|            |         | Total   | 3.68            | <=10.19        | PASS    |
|            | 5200    | Ant1    | 1.14            | <=10.19        | PASS    |
|            |         | Ant2    | 0.89            | <=10.19        | PASS    |
|            |         | Total   | 4.03            | <=10.19        | PASS    |
|            | 5240    | Ant1    | 1.06            | <=10.19        | PASS    |
|            |         | Ant2    | 1.11            | <=10.19        | PASS    |
|            |         | Total   | 4.1             | <=10.19        | PASS    |
| 11N40MIMO  | 5190    | Ant1    | -1.74           | <=10.19        | PASS    |
|            |         | Ant2    | -1.88           | <=10.19        | PASS    |
|            |         | Total   | 1.20            | <=10.19        | PASS    |
|            | 5230    | Ant1    | -2.9            | <=10.19        | PASS    |
|            |         | Ant2    | -2.72           | <=10.19        | PASS    |
|            |         | Total   | 0.20            | <=10.19        | PASS    |
| 11AC20MIMO | 5180    | Ant1    | 0.88            | <=10.19        | PASS    |
|            |         | Ant2    | 0.63            | <=10.19        | PASS    |
|            |         | Total   | 3.77            | <=10.19        | PASS    |
|            | 5200    | Ant1    | 1.09            | <=10.19        | PASS    |
|            |         | Ant2    | 1               | <=10.19        | PASS    |
|            |         | Total   | 4.06            | <=10.19        | PASS    |
|            | 5240    | Ant1    | 0.94            | <=10.19        | PASS    |
|            |         | Ant2    | 1.37            | <=10.19        | PASS    |
|            |         | Total   | 4.17            | <=10.19        | PASS    |

| Test Mode  | Channel | Antenna | Result[dBm/MHz] | Limit[dBm/MHz] | Verdict |
|------------|---------|---------|-----------------|----------------|---------|
| 11AC40MIMO | 5190    | Ant1    | -1.37           | <=10.19        | PASS    |
|            |         | Ant2    | -1.85           | <=10.19        | PASS    |
|            |         | Total   | 1.41            | <=10.19        | PASS    |
|            | 5230    | Ant1    | -2.85           | <=10.19        | PASS    |
|            |         | Ant2    | -2.66           | <=10.19        | PASS    |
|            |         | Total   | 0.26            | <=10.19        | PASS    |
| 11AC80MIMO | 5210    | Ant1    | -3.8            | <=10.19        | PASS    |
|            |         | Ant2    | -3.51           | <=10.19        | PASS    |
|            |         | Total   | -0.64           | <=10.19        | PASS    |
| 11AX20MIMO | 5180    | Ant1    | 0.87            | <=10.19        | PASS    |
|            |         | Ant2    | 1.00            | <=10.19        | PASS    |
|            |         | Total   | 3.95            | <=10.19        | PASS    |
|            | 5200    | Ant1    | 0.45            | <=10.19        | PASS    |
|            |         | Ant2    | 0.36            | <=10.19        | PASS    |
|            |         | Total   | 3.42            | <=10.19        | PASS    |
|            | 5240    | Ant1    | 0.98            | <=10.19        | PASS    |
|            |         | Ant2    | 0.85            | <=10.19        | PASS    |
|            |         | Total   | 3.93            | <=10.19        | PASS    |
| 11AX40MIMO | 5190    | Ant1    | -2.07           | <=10.19        | PASS    |
|            |         | Ant2    | -2.32           | <=10.19        | PASS    |
|            |         | Total   | 0.82            | <=10.19        | PASS    |
|            | 5230    | Ant1    | -3.19           | <=10.19        | PASS    |
|            |         | Ant2    | -3.22           | <=10.19        | PASS    |
|            |         | Total   | -0.19           | <=10.19        | PASS    |
| 11AX80MIMO | 5210    | Ant1    | -4.36           | <=10.19        | PASS    |
|            |         | Ant2    | -4.61           | <=10.19        | PASS    |
|            |         | Total   | -1.47           | <=10.19        | PASS    |

Note: The maximum antenna gain is 3.80dBi.

Note: The Duty Cycle Factor is compensated in the graph.

The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power spectral density (PSD) measurements on the devices

$$\text{Array Gain} = 10 \log(N_{\text{ANT}}/N_{\text{ss}})\text{dB}$$

So:

Directional gain= $G_{\text{ANT}} + \text{Array Gain} = 3.80 + 10 \cdot \log(2/1) = 6.81\text{dBi} > 6\text{ dBi}$   
the limit should be reduce  $(6.81 - 6)\text{dB} = 0.81\text{dB}$

**5725-5850 MHz:**

| Test Mode  | Channel | Antenna | Result[dBm/500kHz] | Limit[dBm/500kHz] | Verdict |
|------------|---------|---------|--------------------|-------------------|---------|
| 11A MIMO   | 5745    | Ant1    | 0.65               | <=29.95           | PASS    |
|            |         | Ant2    | 0.62               | <=29.95           | PASS    |
|            |         | Total   | 3.65               | <=29.95           | PASS    |
|            | 5785    | Ant1    | 0.6                | <=29.95           | PASS    |
|            |         | Ant2    | 0.48               | <=29.95           | PASS    |
|            |         | Total   | 3.55               | <=29.95           | PASS    |
|            | 5825    | Ant1    | -0.1               | <=29.95           | PASS    |
|            |         | Ant2    | -0.26              | <=29.95           | PASS    |
|            |         | Total   | 2.83               | <=29.95           | PASS    |
| 11N20MIMO  | 5745    | Ant1    | 0.2                | <=29.95           | PASS    |
|            |         | Ant2    | -0.06              | <=29.95           | PASS    |
|            |         | Total   | 3.08               | <=29.95           | PASS    |
|            | 5785    | Ant1    | 0.3                | <=29.95           | PASS    |
|            |         | Ant2    | -0.06              | <=29.95           | PASS    |
|            |         | Total   | 3.13               | <=29.95           | PASS    |
|            | 5825    | Ant1    | -0.34              | <=29.95           | PASS    |
|            |         | Ant2    | -0.62              | <=29.95           | PASS    |
|            |         | Total   | 2.53               | <=29.95           | PASS    |
| 11N40MIMO  | 5755    | Ant1    | -2.16              | <=29.95           | PASS    |
|            |         | Ant2    | -2.72              | <=29.95           | PASS    |
|            |         | Total   | 0.58               | <=29.95           | PASS    |
|            | 5795    | Ant1    | -2.63              | <=29.95           | PASS    |
|            |         | Ant2    | -2.7               | <=29.95           | PASS    |
|            |         | Total   | 0.35               | <=29.95           | PASS    |
| 11AC20MIMO | 5745    | Ant1    | 0.42               | <=29.95           | PASS    |
|            |         | Ant2    | 0.19               | <=29.95           | PASS    |
|            |         | Total   | 3.32               | <=29.95           | PASS    |
|            | 5785    | Ant1    | 0.45               | <=29.95           | PASS    |
|            |         | Ant2    | -0.18              | <=29.95           | PASS    |
|            |         | Total   | 3.16               | <=29.95           | PASS    |
|            | 5825    | Ant1    | -0.39              | <=29.95           | PASS    |
|            |         | Ant2    | -0.54              | <=29.95           | PASS    |
|            |         | Total   | 2.55               | <=29.95           | PASS    |

| Test Mode  | Channel | Antenna | Result[dBm/500kHz] | Limit[dBm/500kHz] | Verdict |
|------------|---------|---------|--------------------|-------------------|---------|
| 11AC40MIMO | 5755    | Ant1    | -2.12              | <=29.95           | PASS    |
|            |         | Ant2    | -2.78              | <=29.95           | PASS    |
|            |         | Total   | 0.57               | <=29.95           | PASS    |
|            | 5795    | Ant1    | -2.5               | <=29.95           | PASS    |
|            |         | Ant2    | -2.98              | <=29.95           | PASS    |
|            |         | Total   | 0.28               | <=29.95           | PASS    |
| 11AC80MIMO | 5775    | Ant1    | -5.31              | <=29.95           | PASS    |
|            |         | Ant2    | -5.45              | <=29.95           | PASS    |
|            |         | Total   | -2.37              | <=29.95           | PASS    |
| 11AX20MIMO | 5745    | Ant1    | -0.06              | <=29.95           | PASS    |
|            |         | Ant2    | -0.20              | <=29.95           | PASS    |
|            |         | Total   | 2.88               | <=29.95           | PASS    |
|            | 5785    | Ant1    | 0.11               | <=29.95           | PASS    |
|            |         | Ant2    | -0.32              | <=29.95           | PASS    |
|            |         | Total   | 2.91               | <=29.95           | PASS    |
|            | 5825    | Ant1    | -0.14              | <=29.95           | PASS    |
|            |         | Ant2    | -0.35              | <=29.95           | PASS    |
|            |         | Total   | 2.77               | <=29.95           | PASS    |
| 11AX40MIMO | 5755    | Ant1    | -3.15              | <=29.95           | PASS    |
|            |         | Ant2    | -3.48              | <=29.95           | PASS    |
|            |         | Total   | -0.30              | <=29.95           | PASS    |
|            | 5795    | Ant1    | -3.46              | <=29.95           | PASS    |
|            |         | Ant2    | -3.60              | <=29.95           | PASS    |
|            |         | Total   | -0.52              | <=29.95           | PASS    |
| 11AX80MIMO | 5775    | Ant1    | -6.48              | <=29.95           | PASS    |
|            |         | Ant2    | -6.50              | <=29.95           | PASS    |
|            |         | Total   | -3.48              | <=29.95           | PASS    |

Note1: The maximum antenna gain is 3.04dBi.

Note2: The Duty Cycle Factor is compensated in the graph.

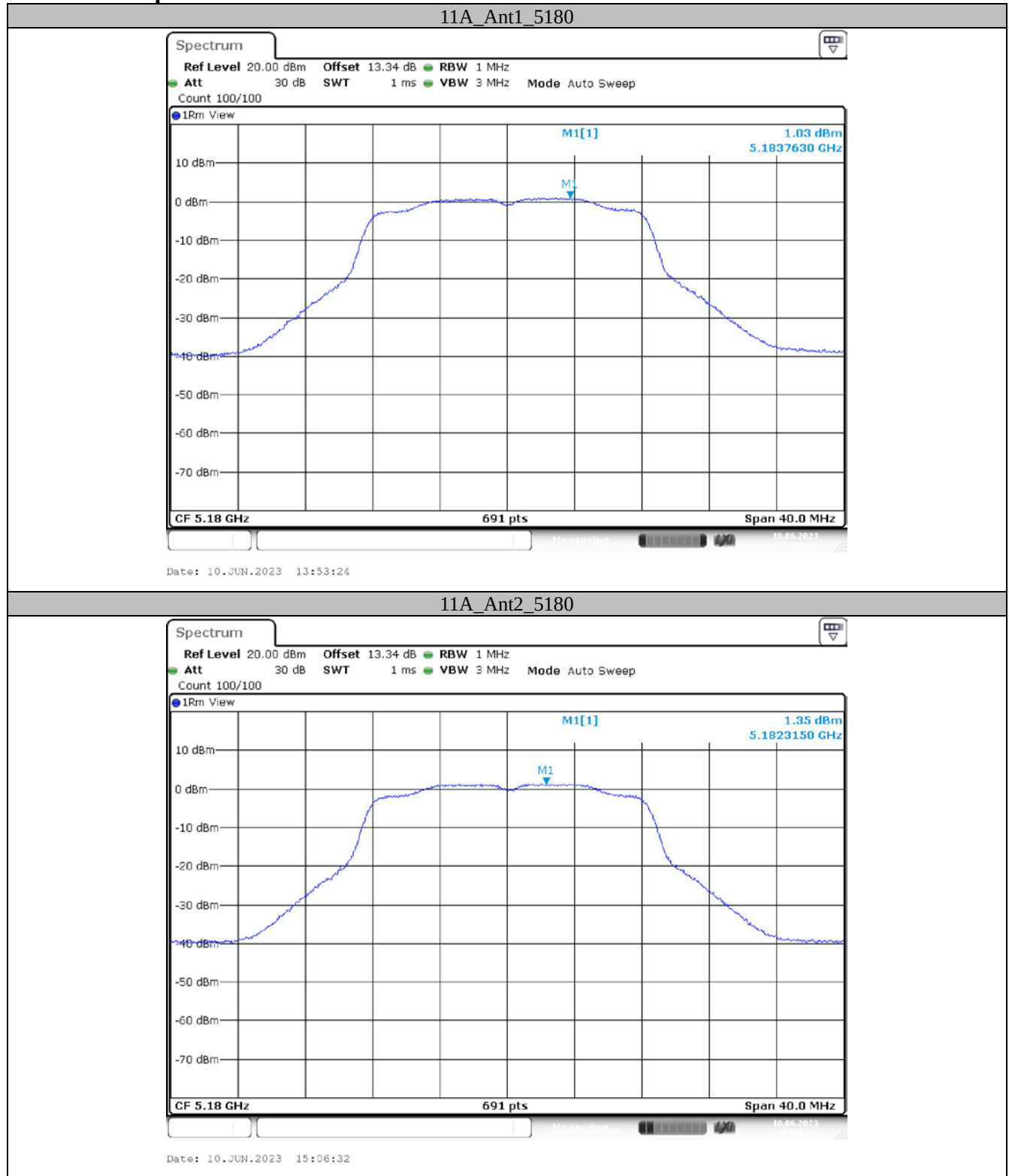
The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power spectral density (PSD) measurements on the devices

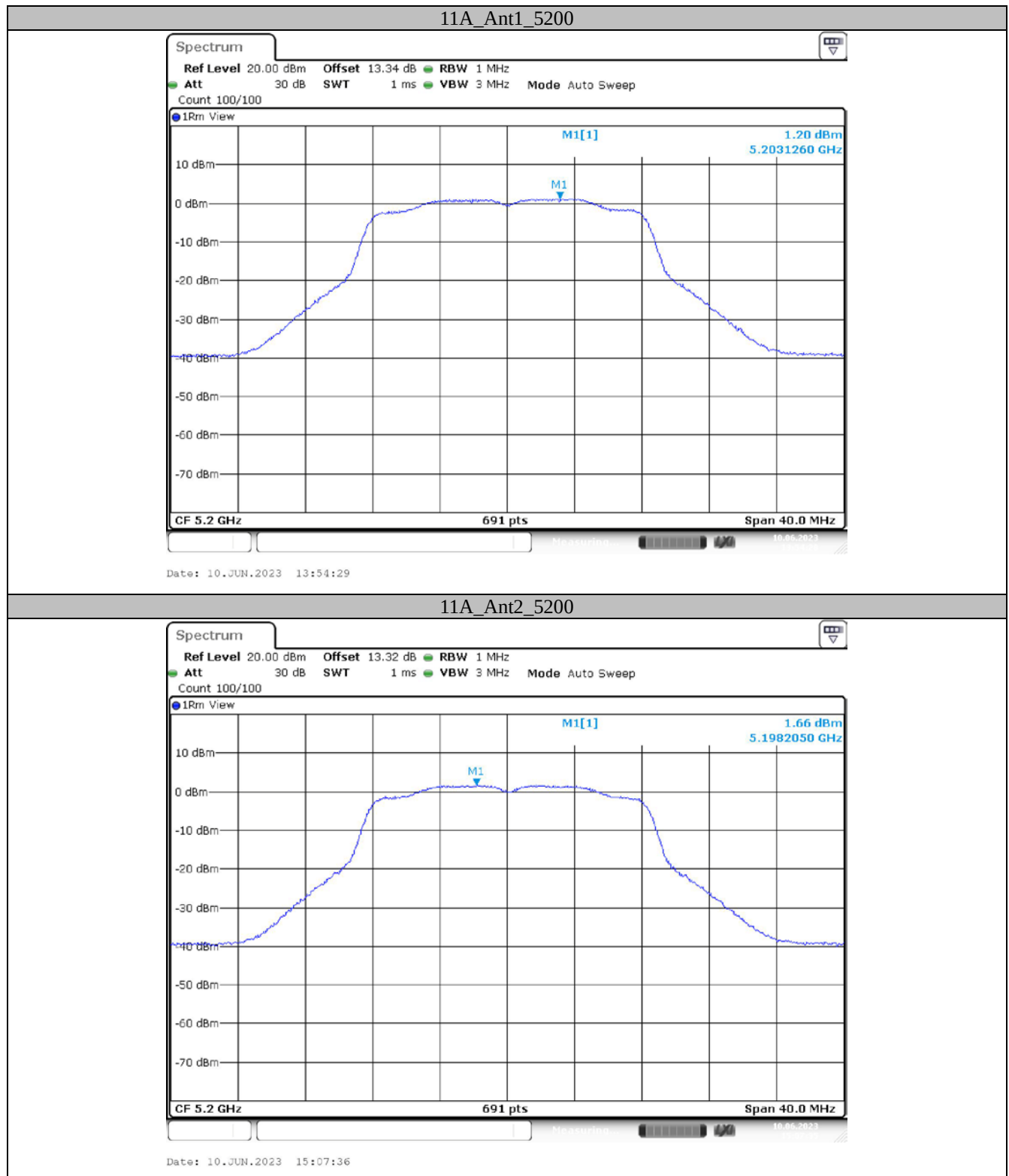
Array Gain =  $10 \log(N_{ANT}/N_{ss})$ dB

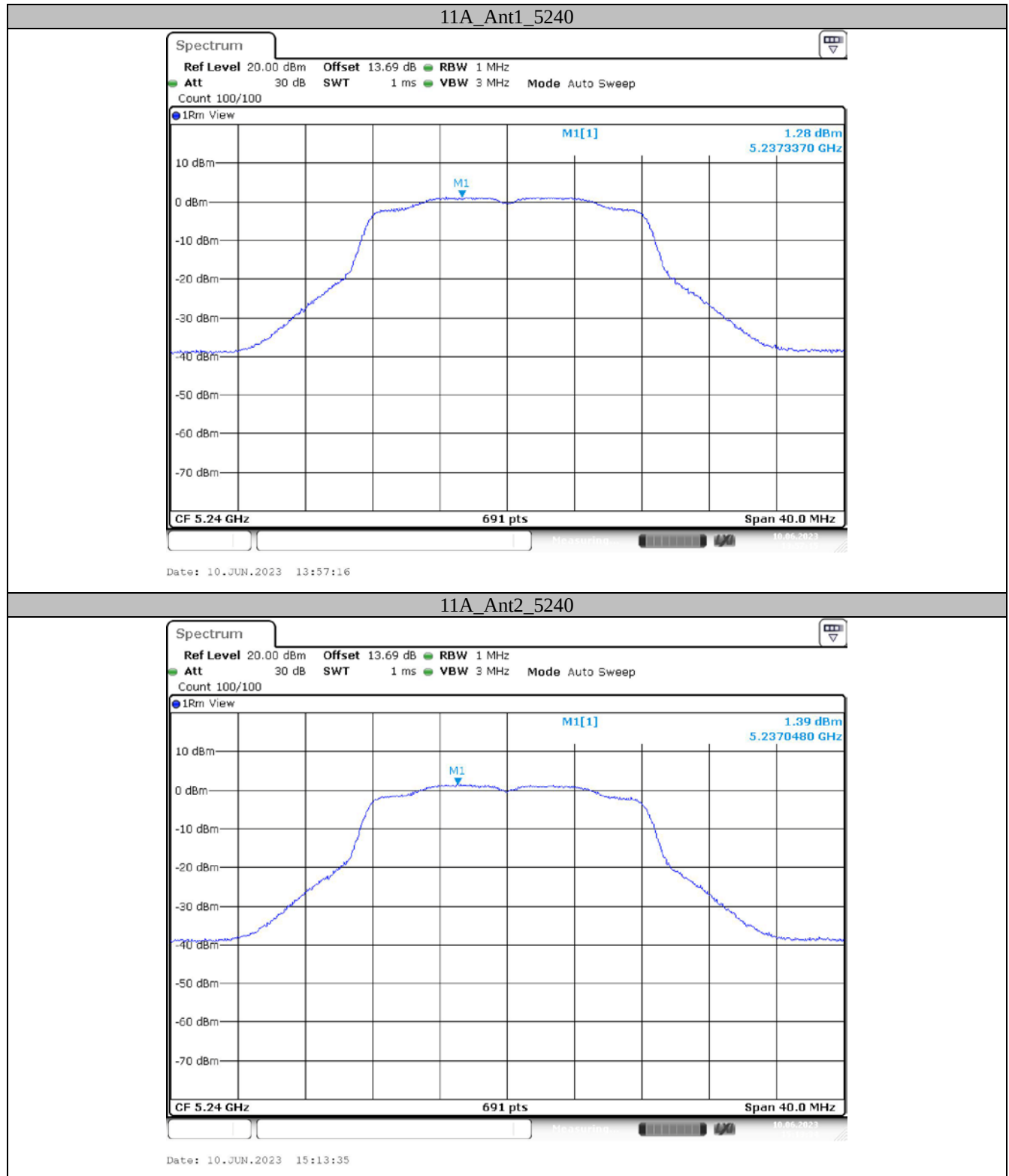
So:

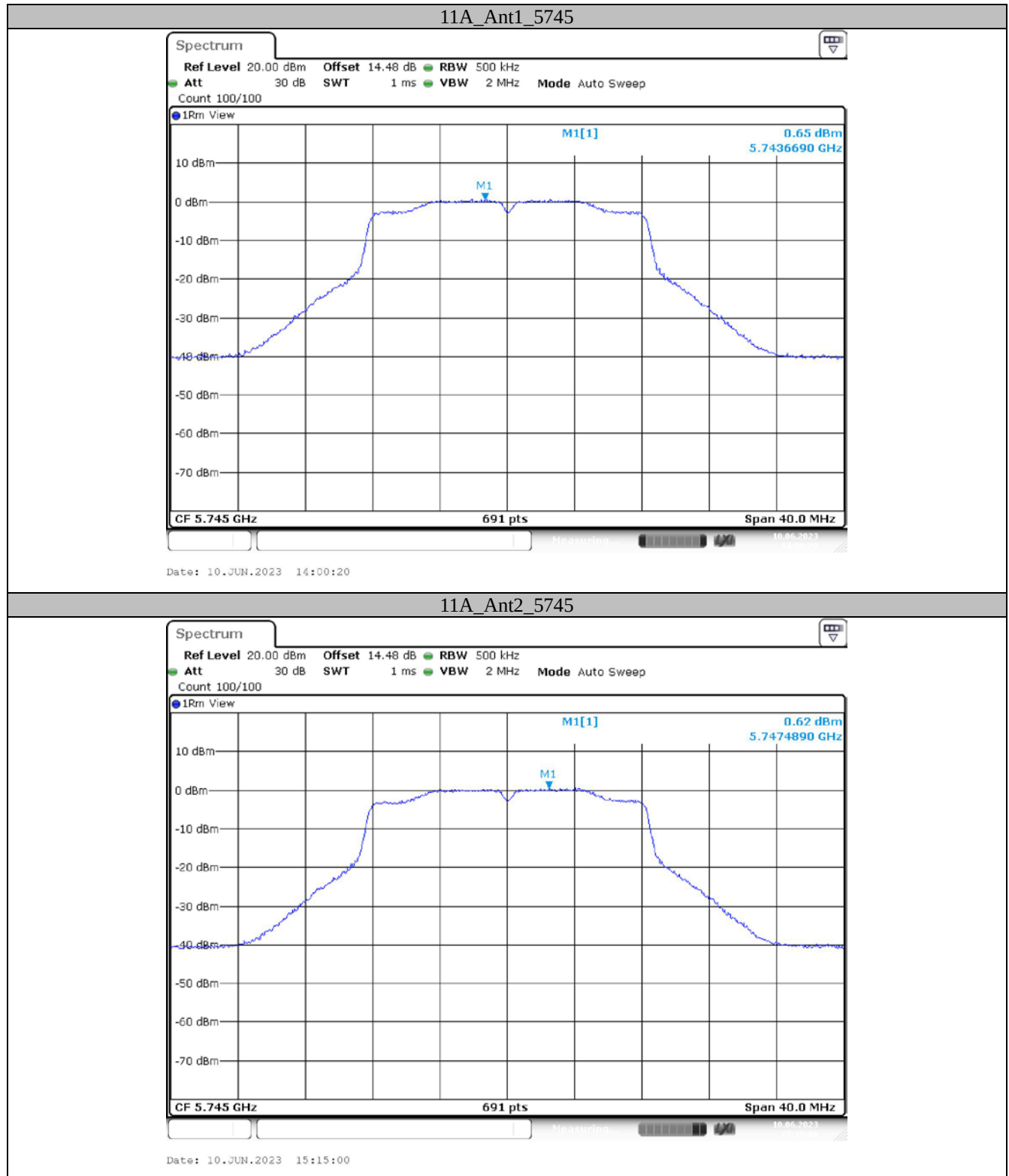
Directional gain= $G_{ANT} + \text{Array Gain} = 3.04 + 10 * \log(2/1) = 6.05\text{dBi} > 6\text{ dBi}$   
the limit should be reduce  $(6.05-6)\text{dB} = 0.05\text{dB}$

## Test Graphs

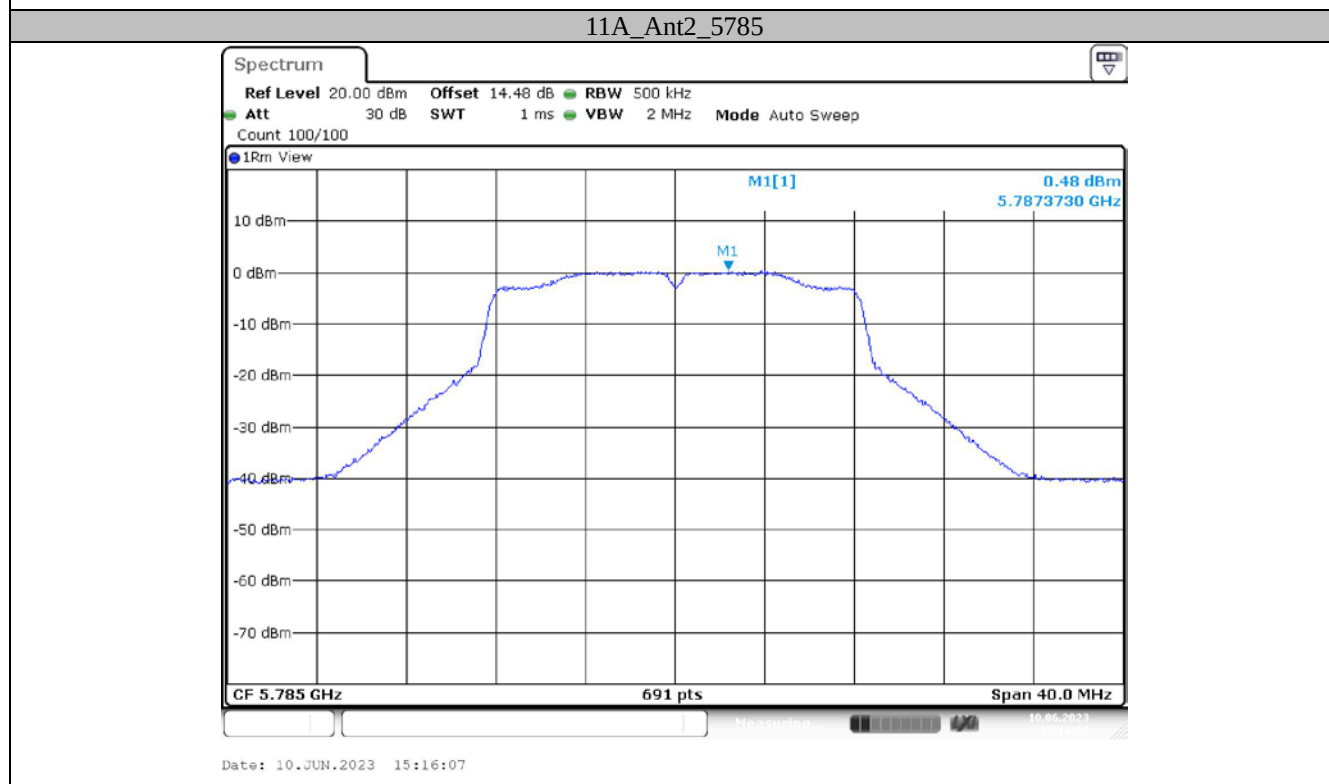
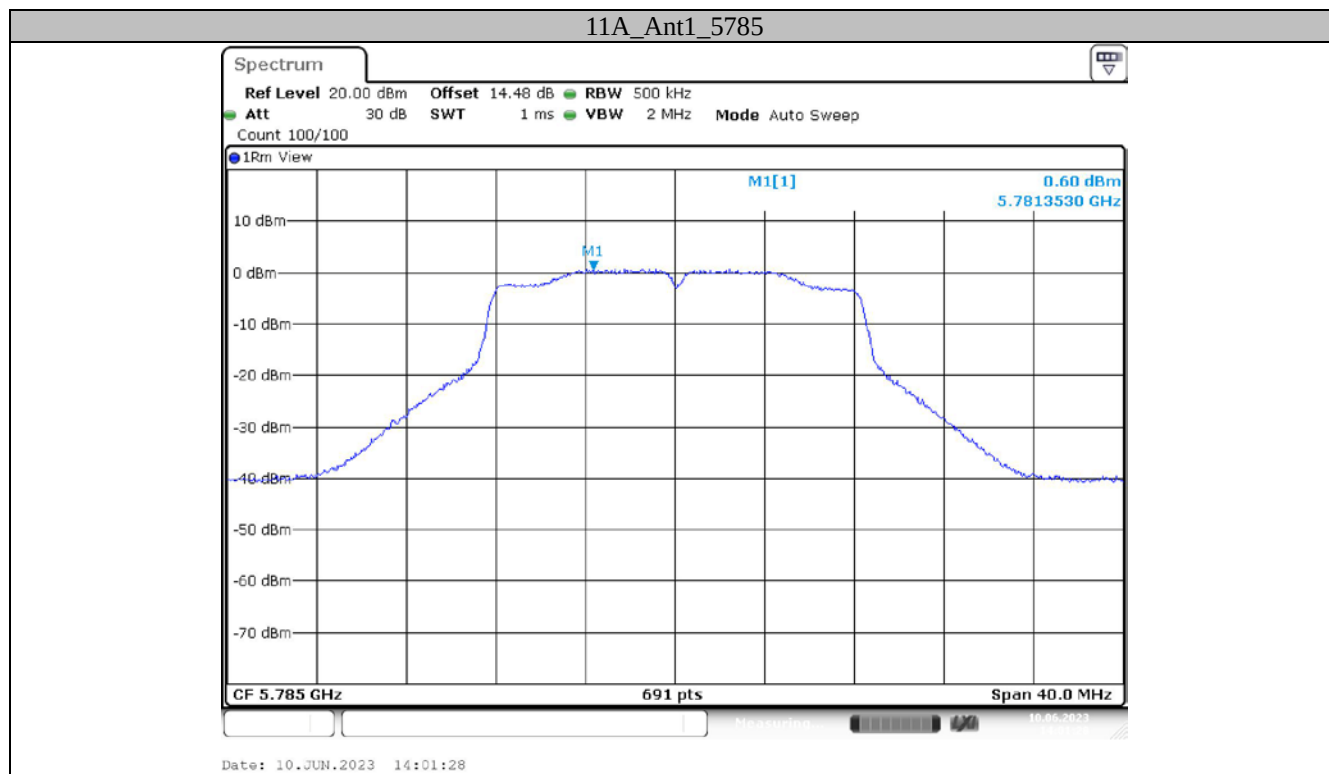




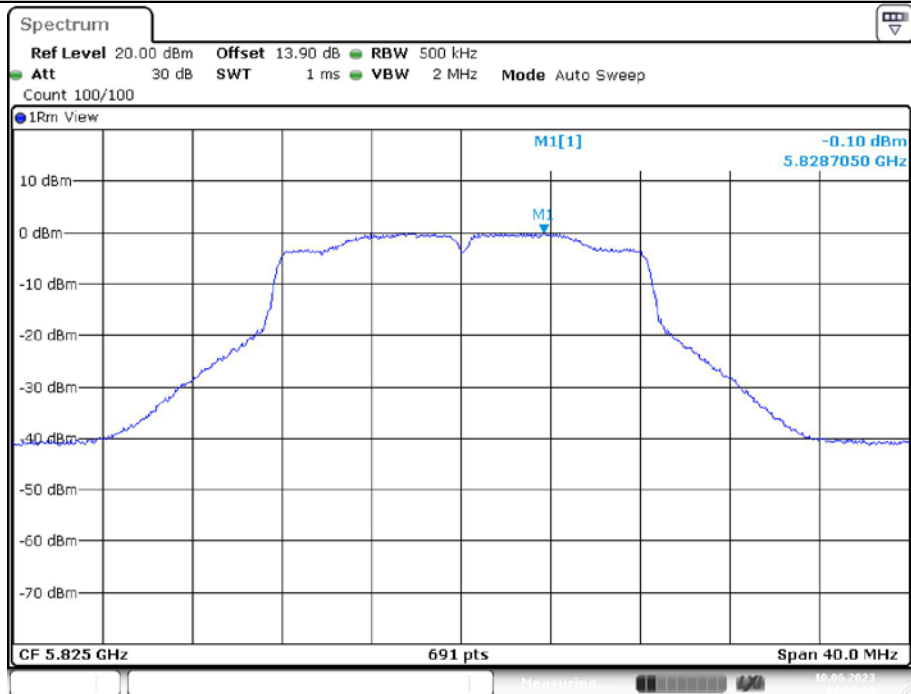




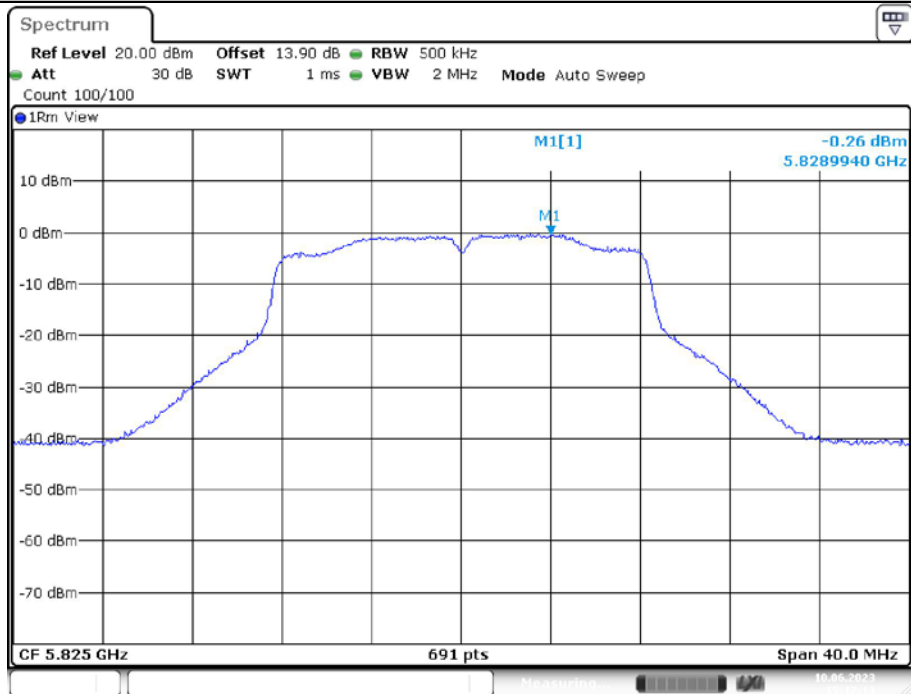


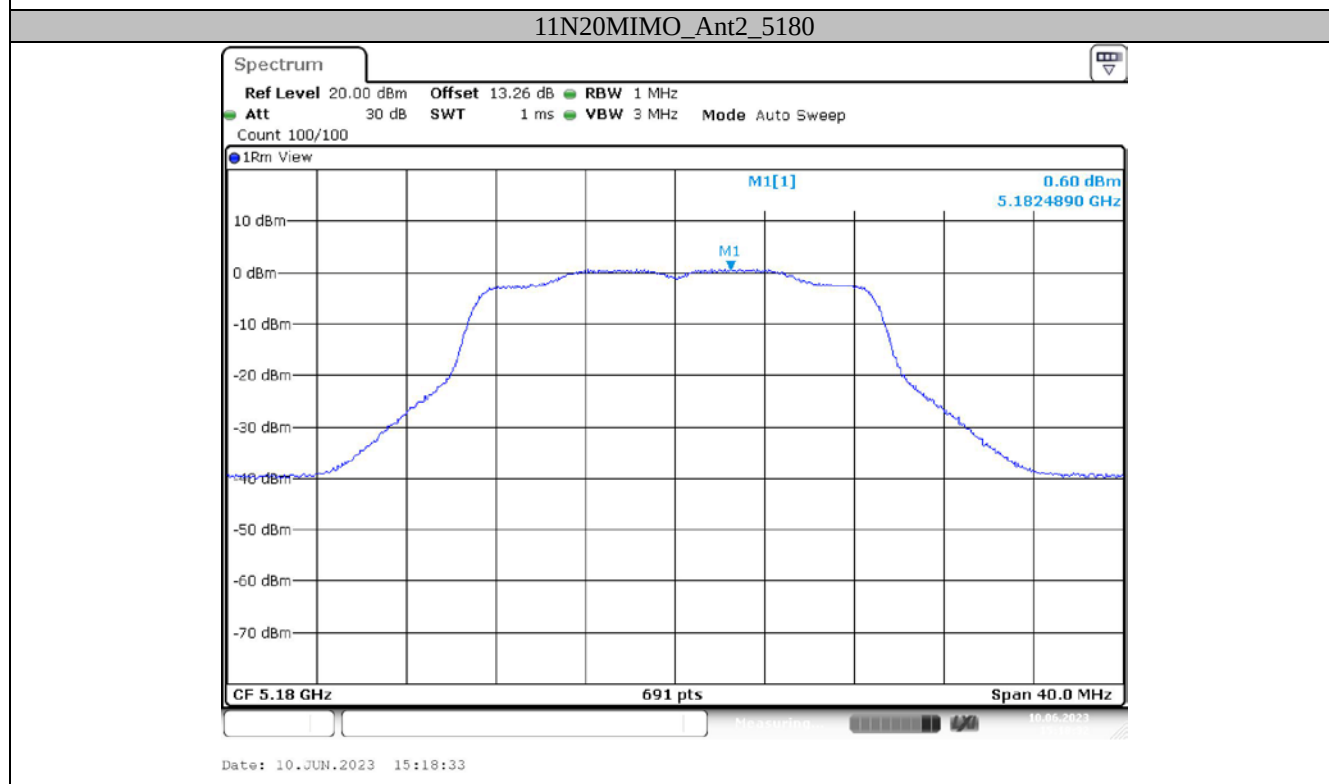
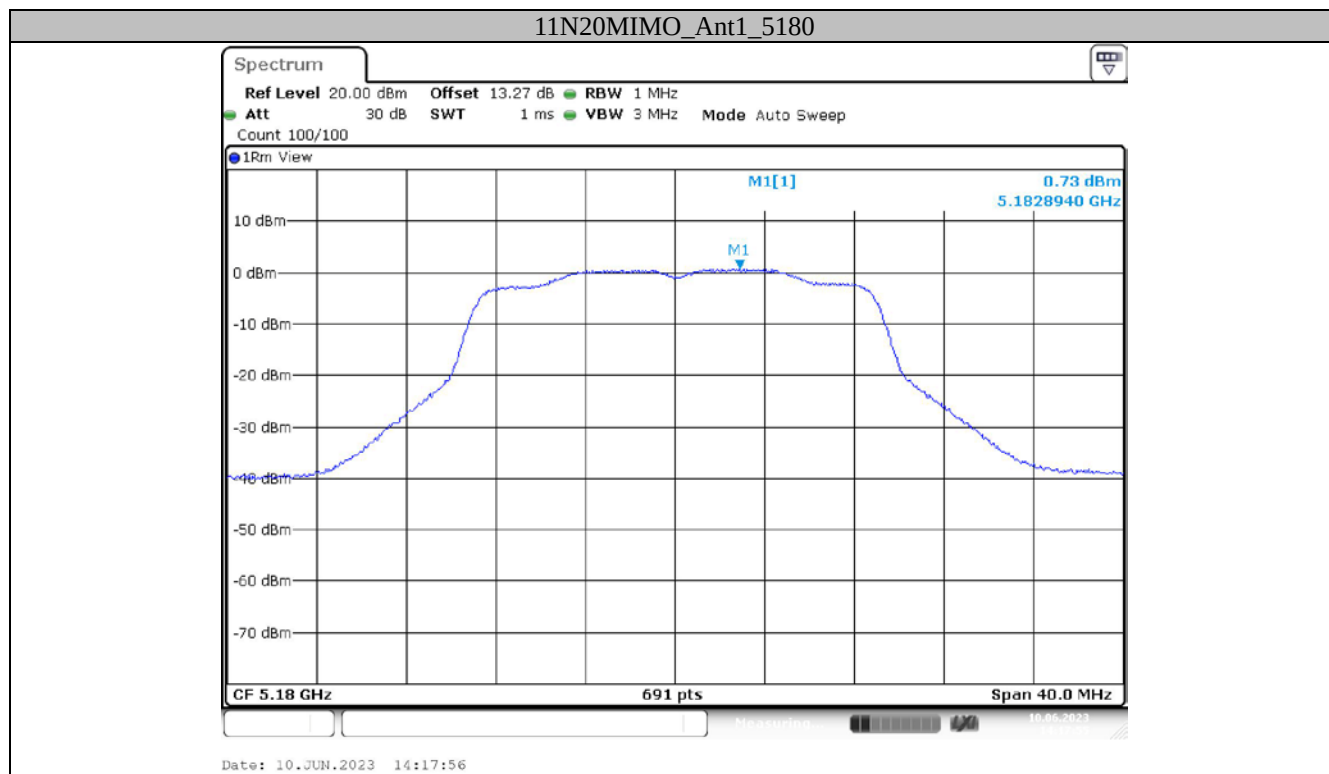


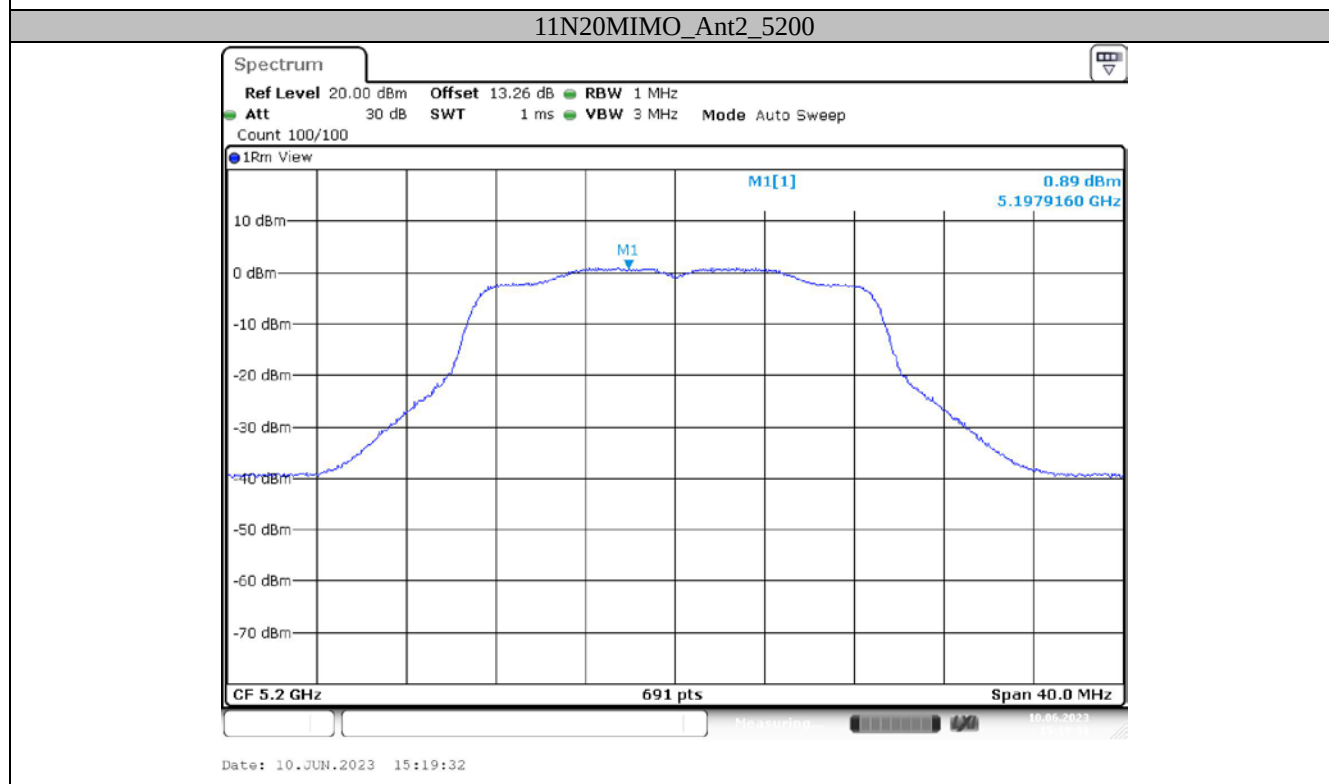
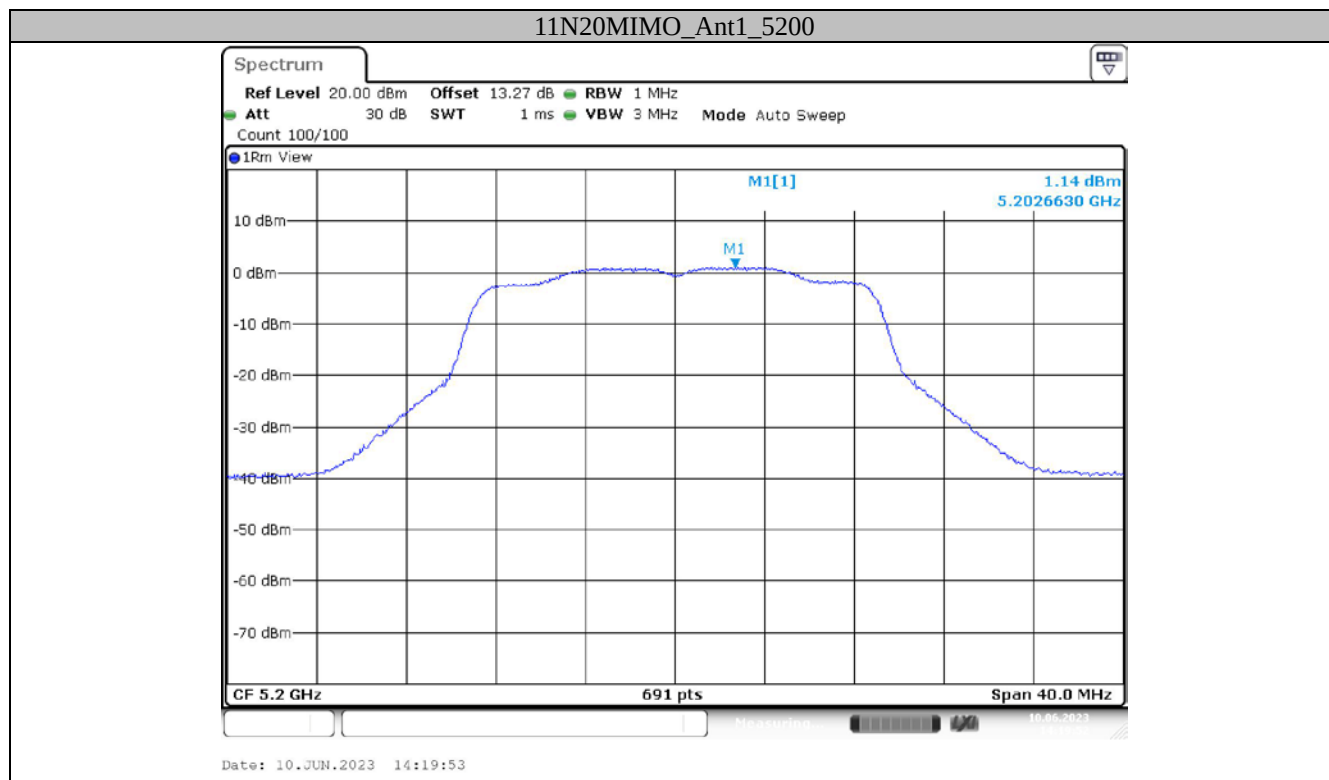
## 11A\_Ant1\_5825

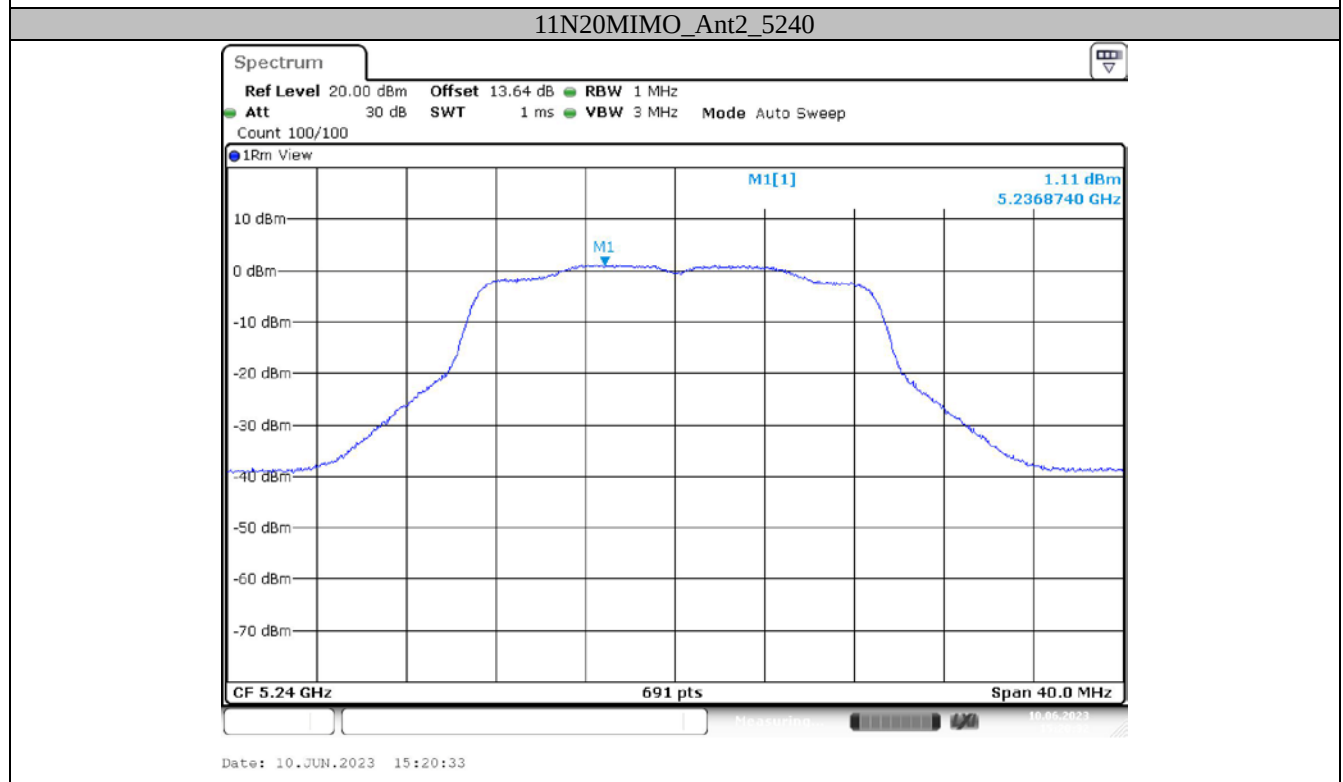
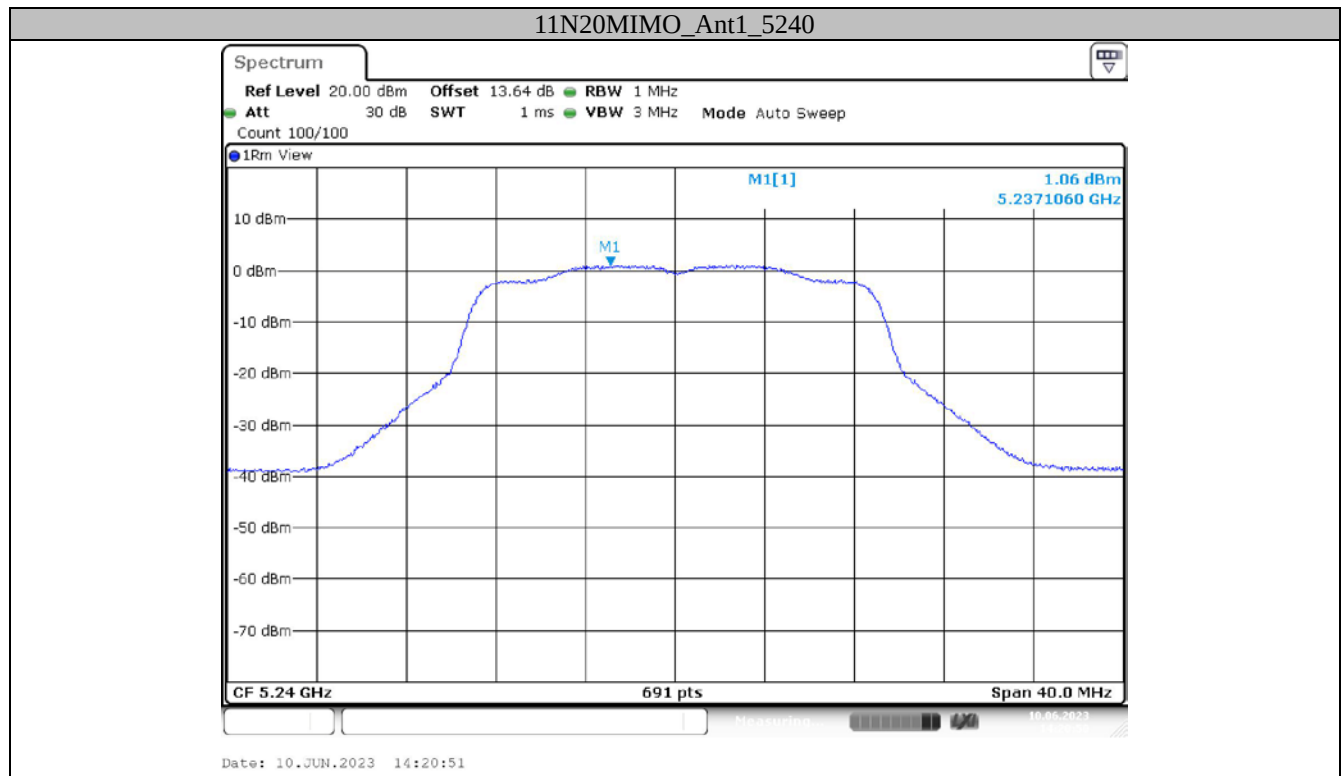


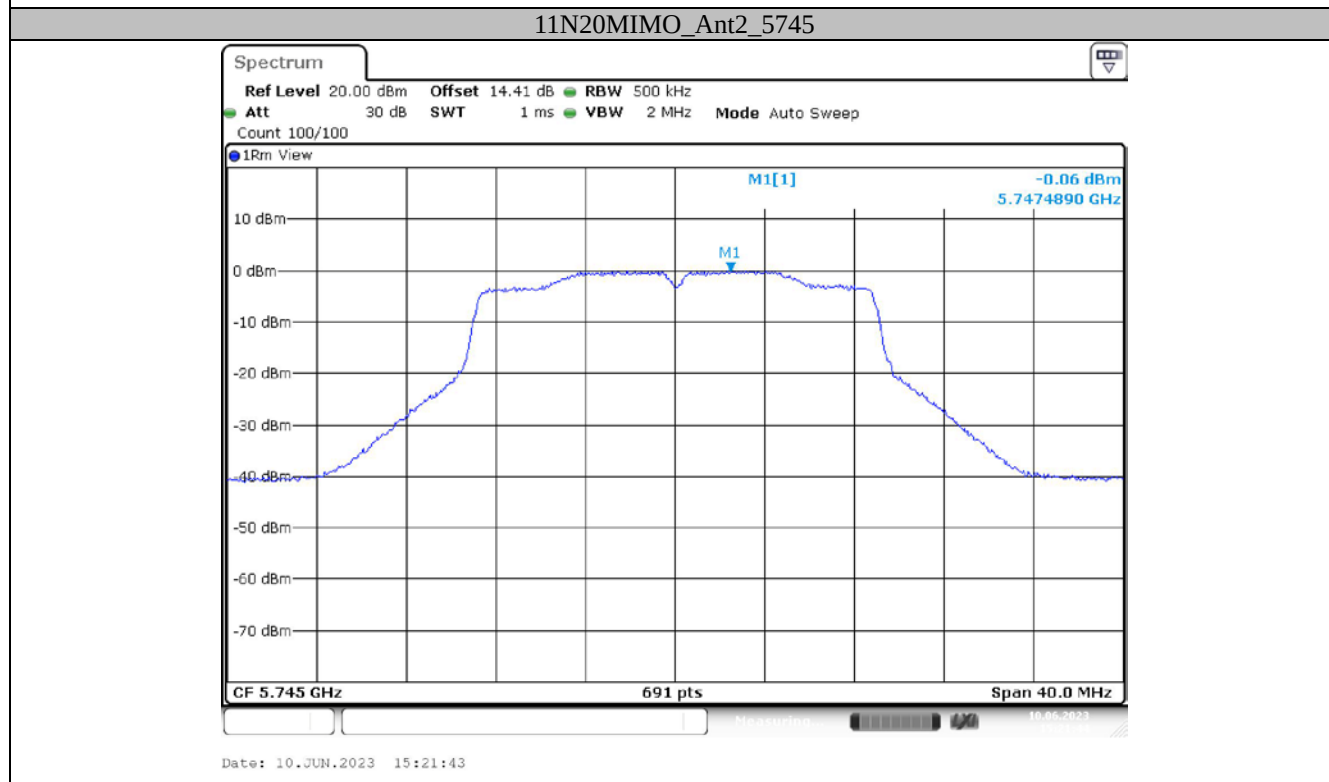
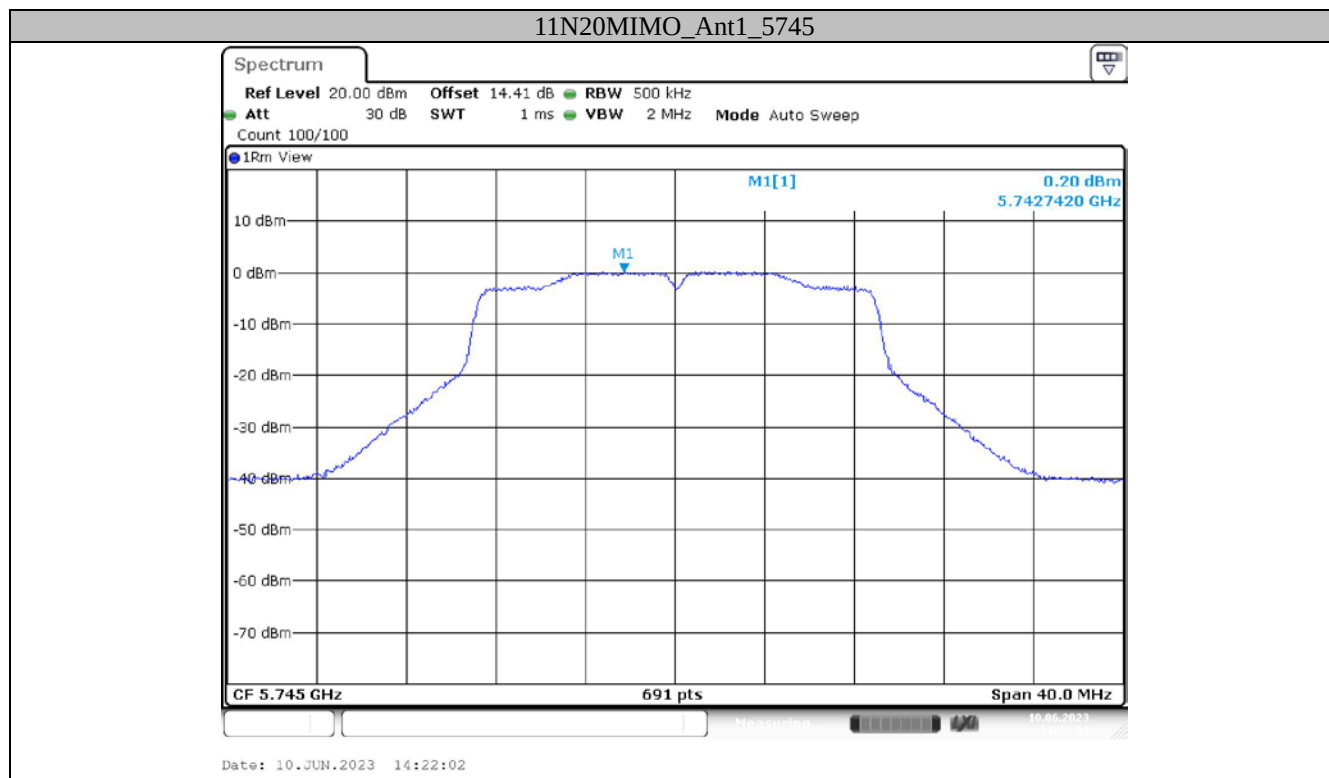
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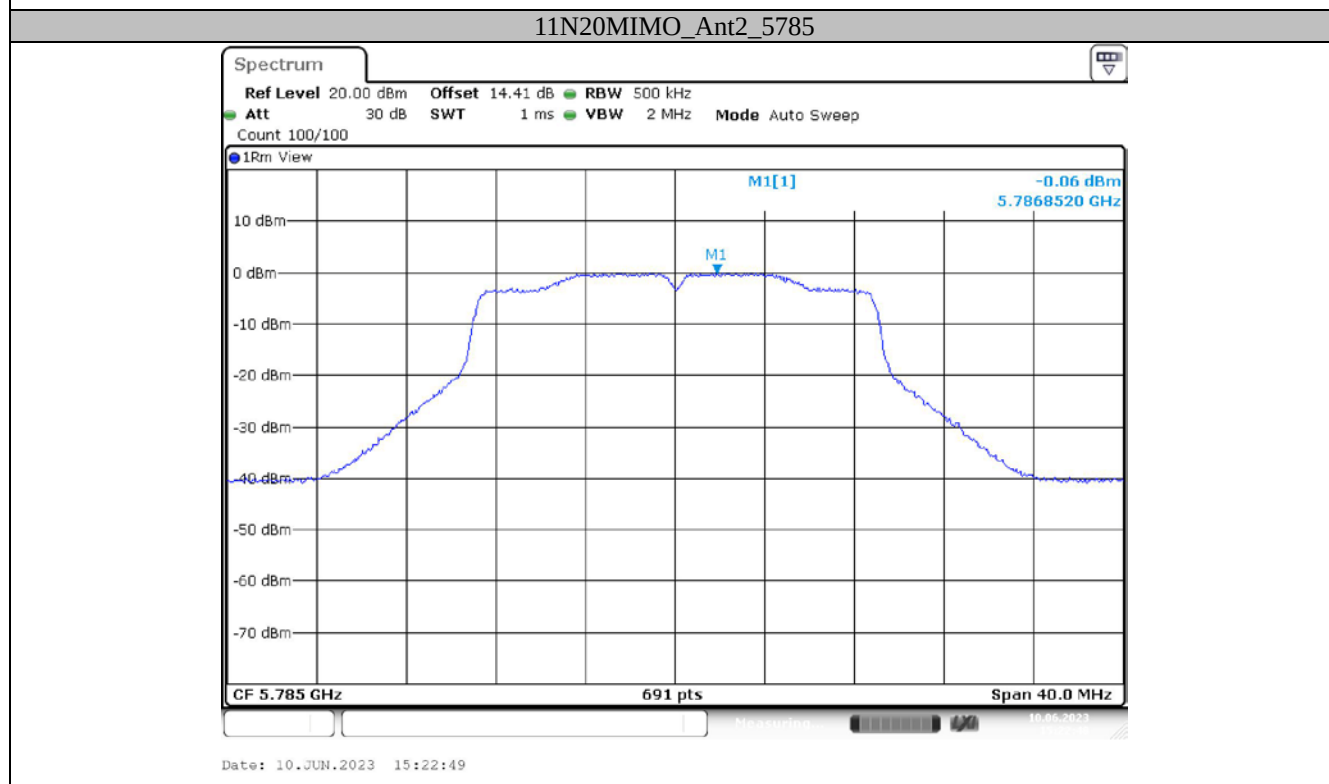
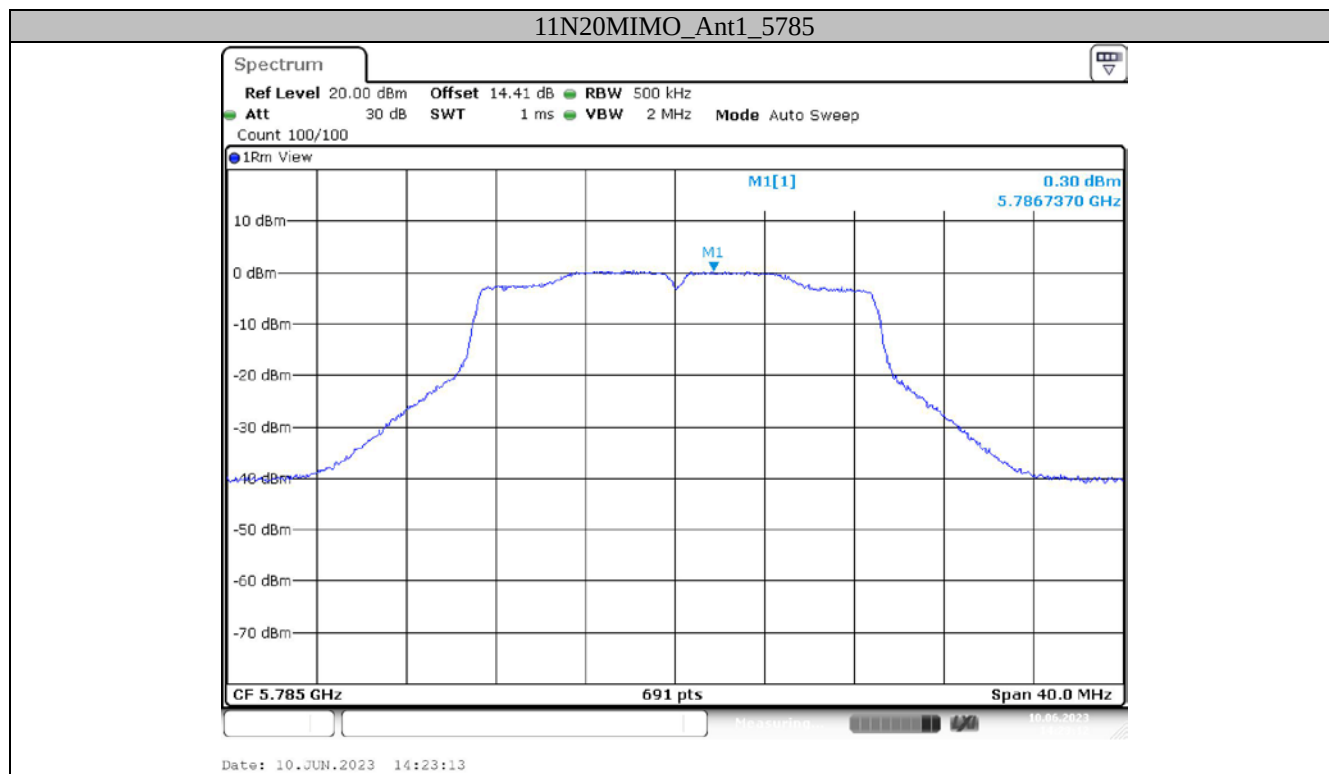












## 11N20MIMO\_Ant1\_5825



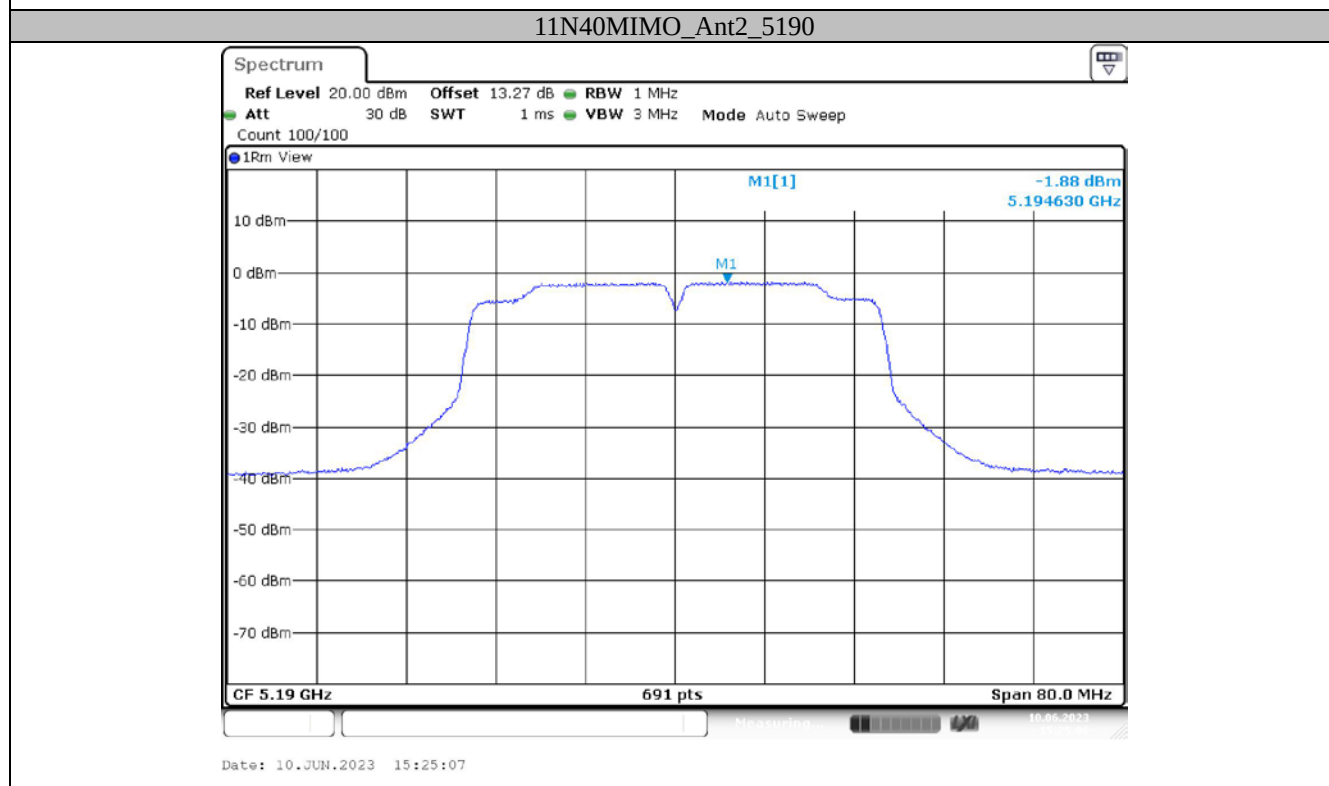
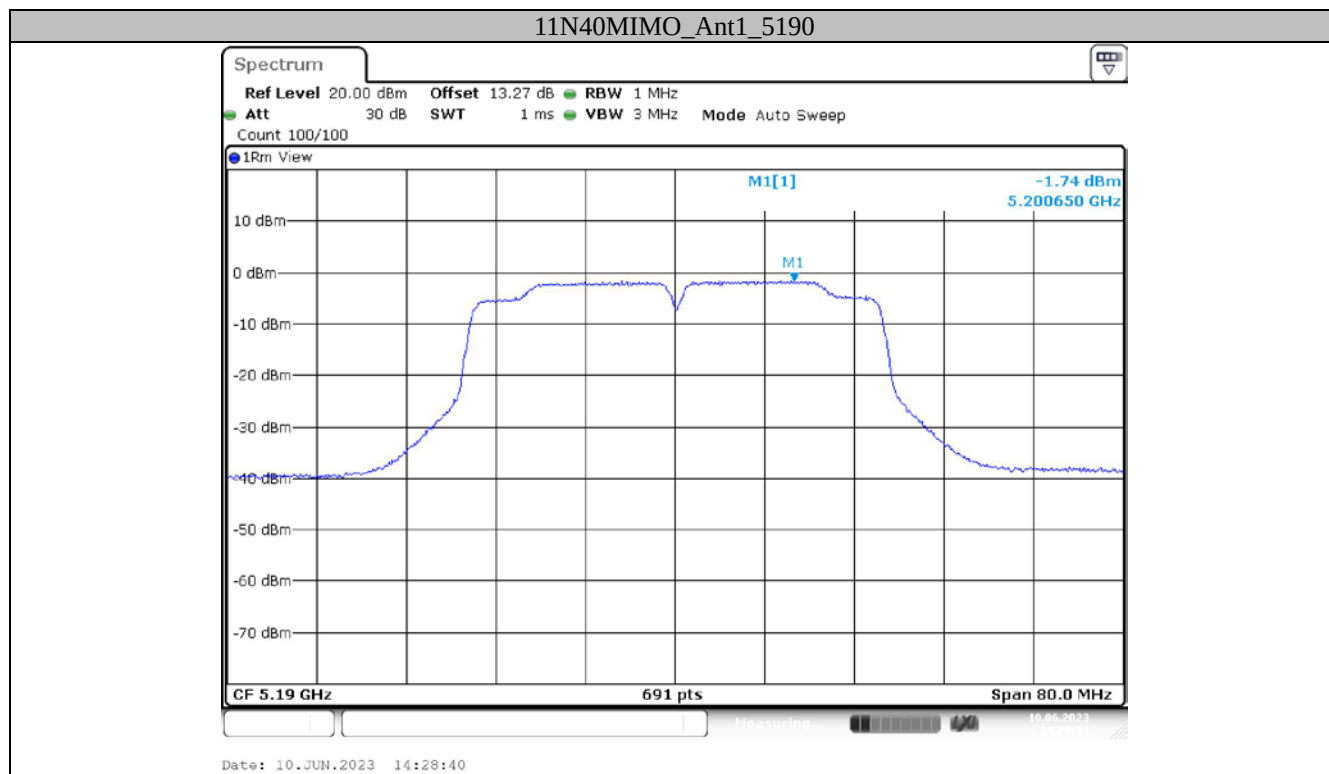
Date: 10.JUN.2023 14:25:17

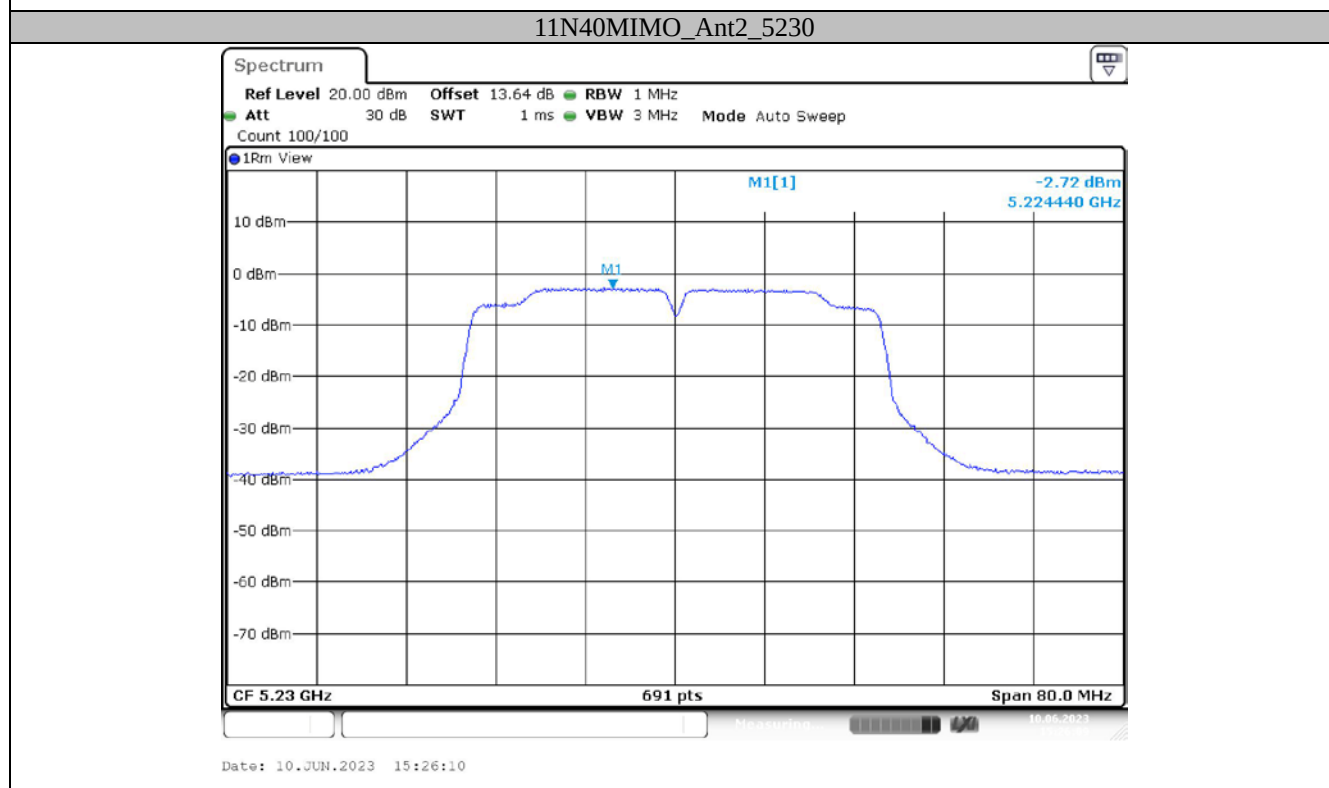
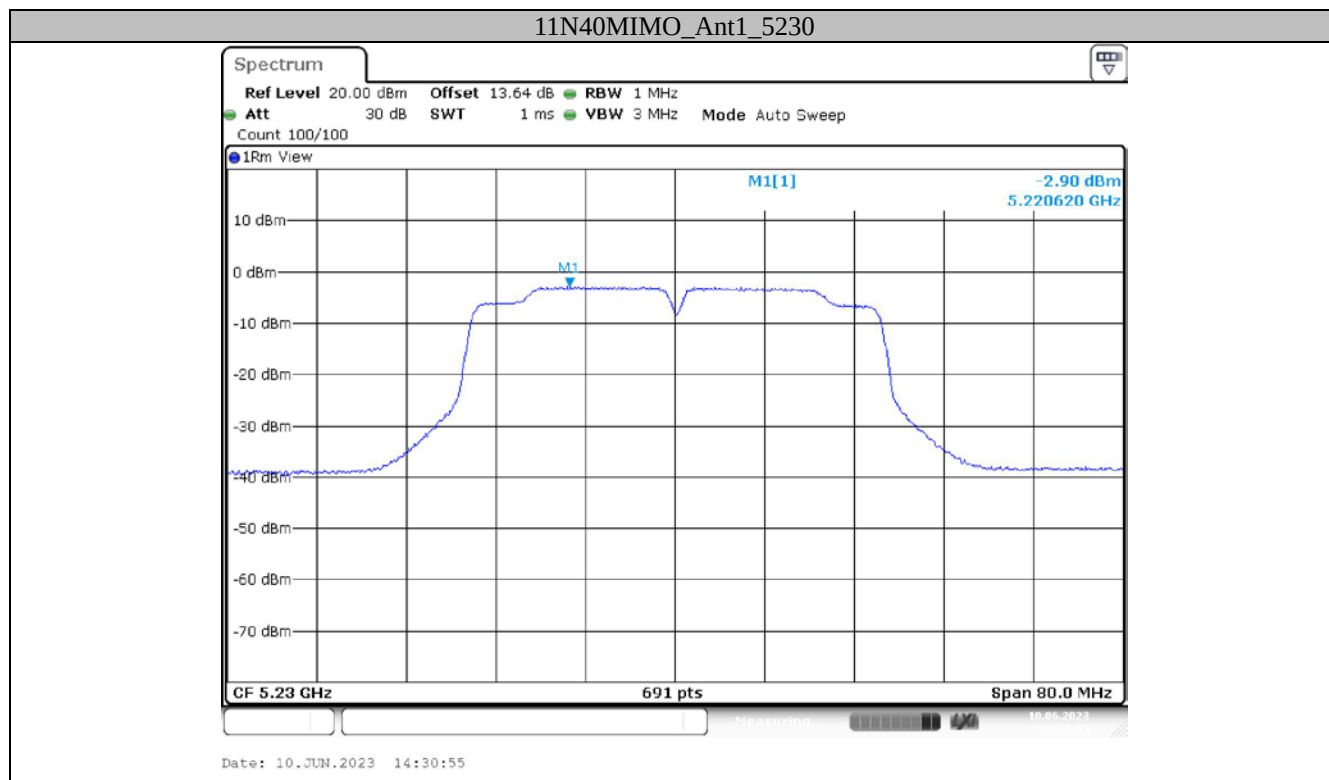
## 11N20MIMO\_Ant2\_5825

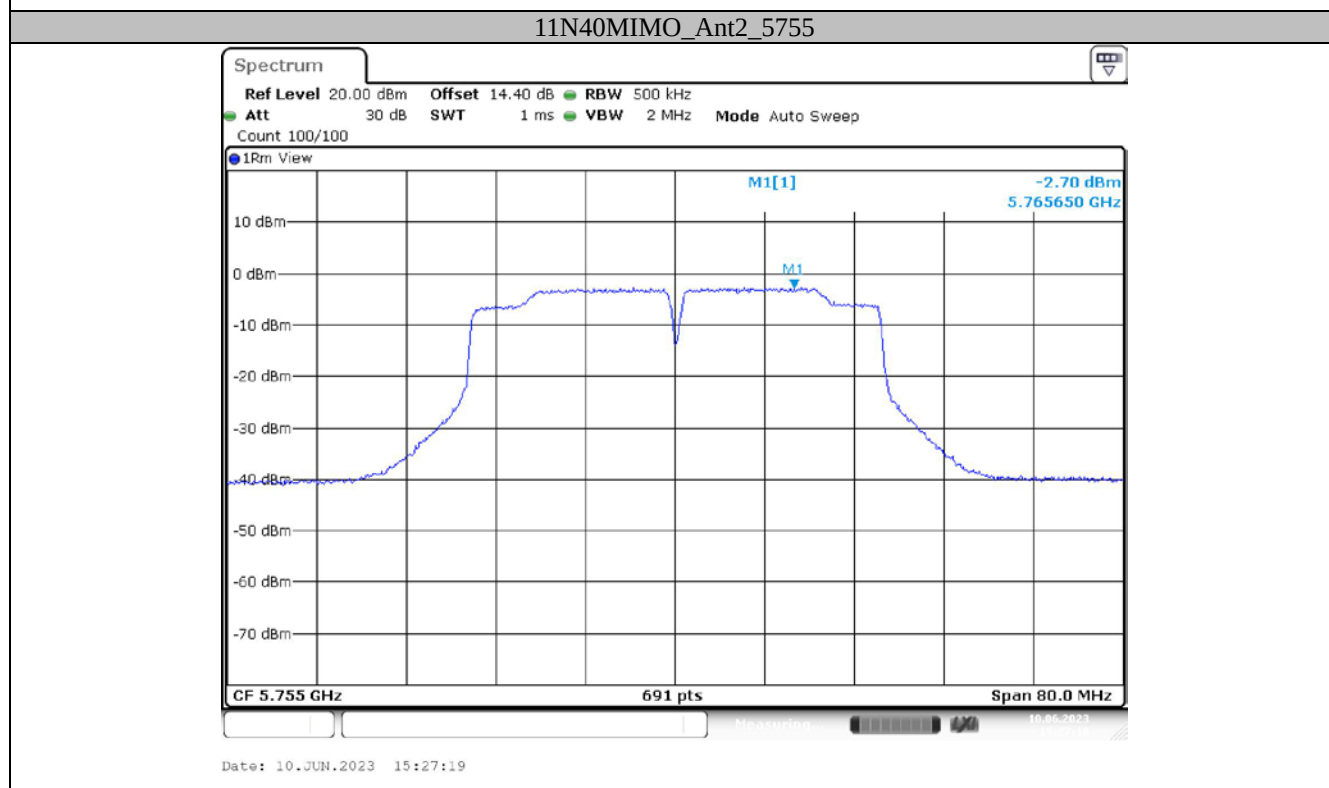
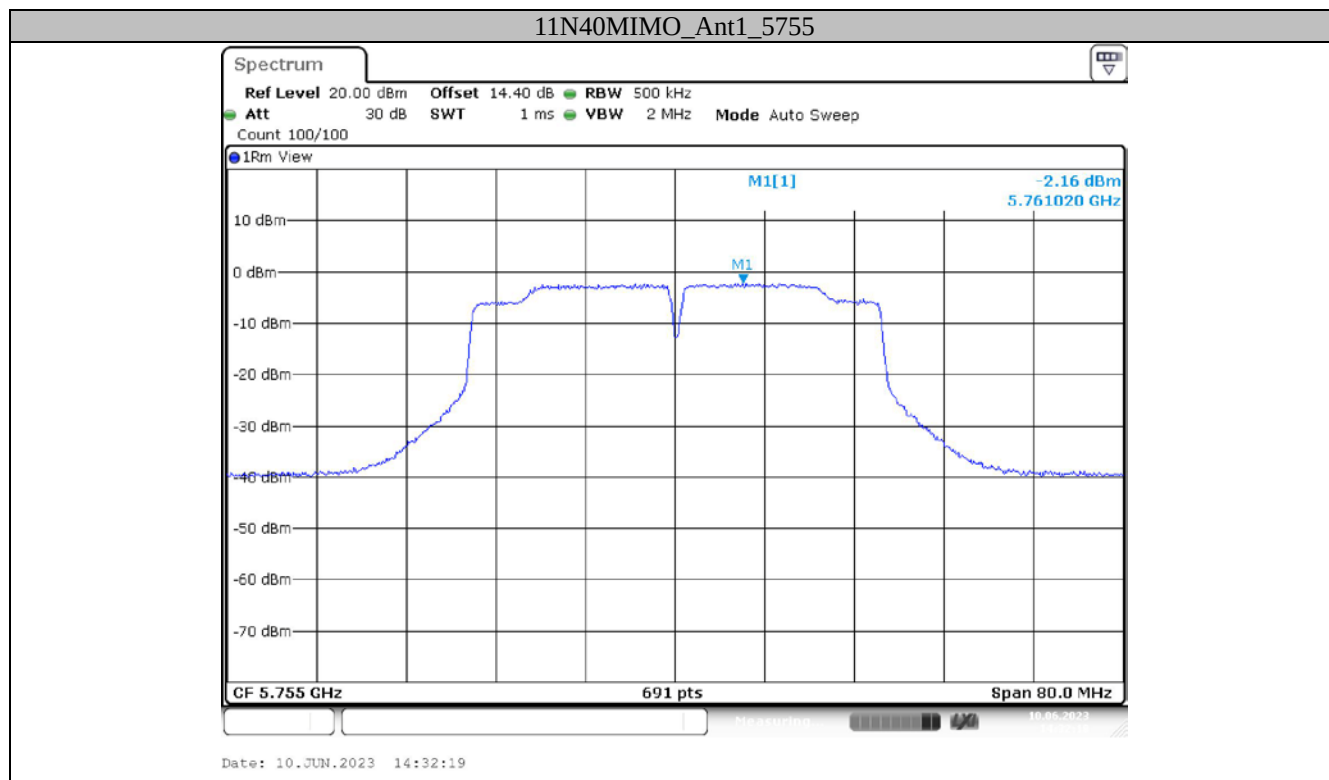


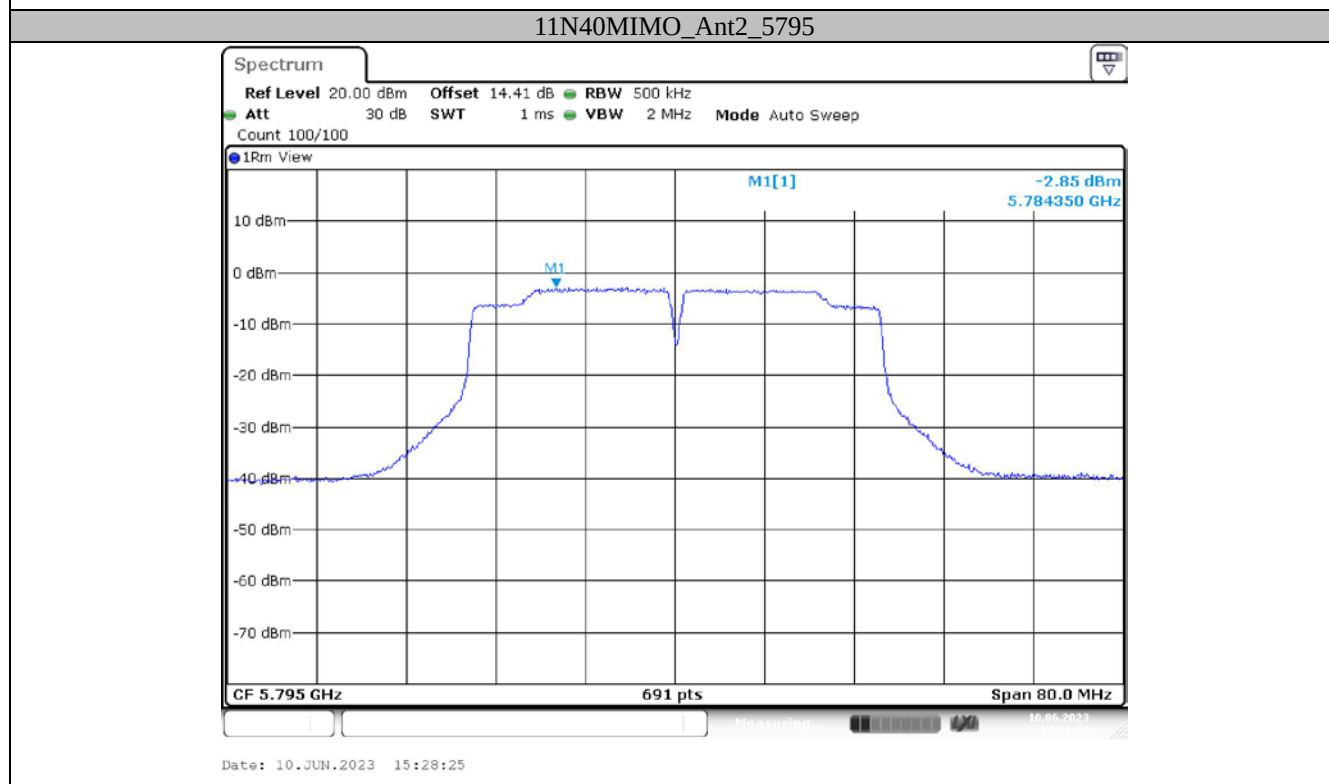
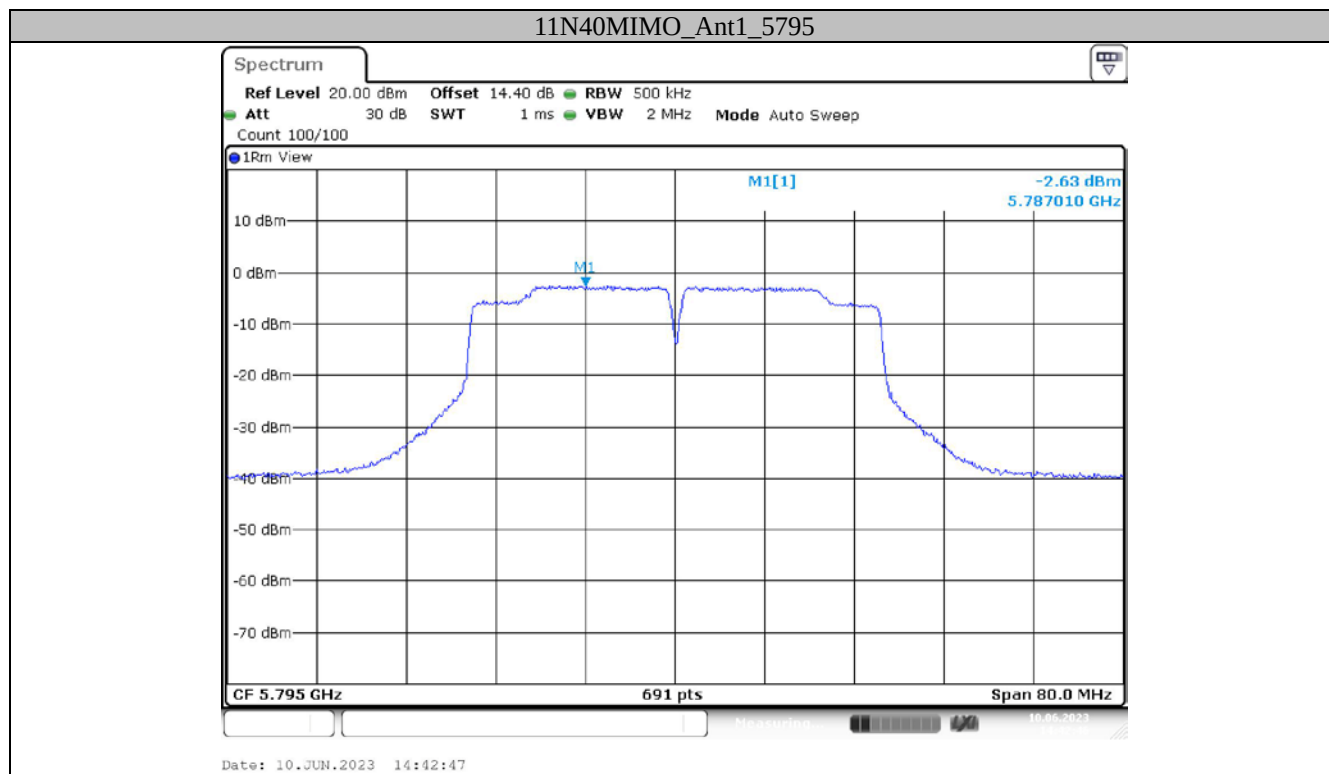
Date: 10.JUN.2023 15:23:54

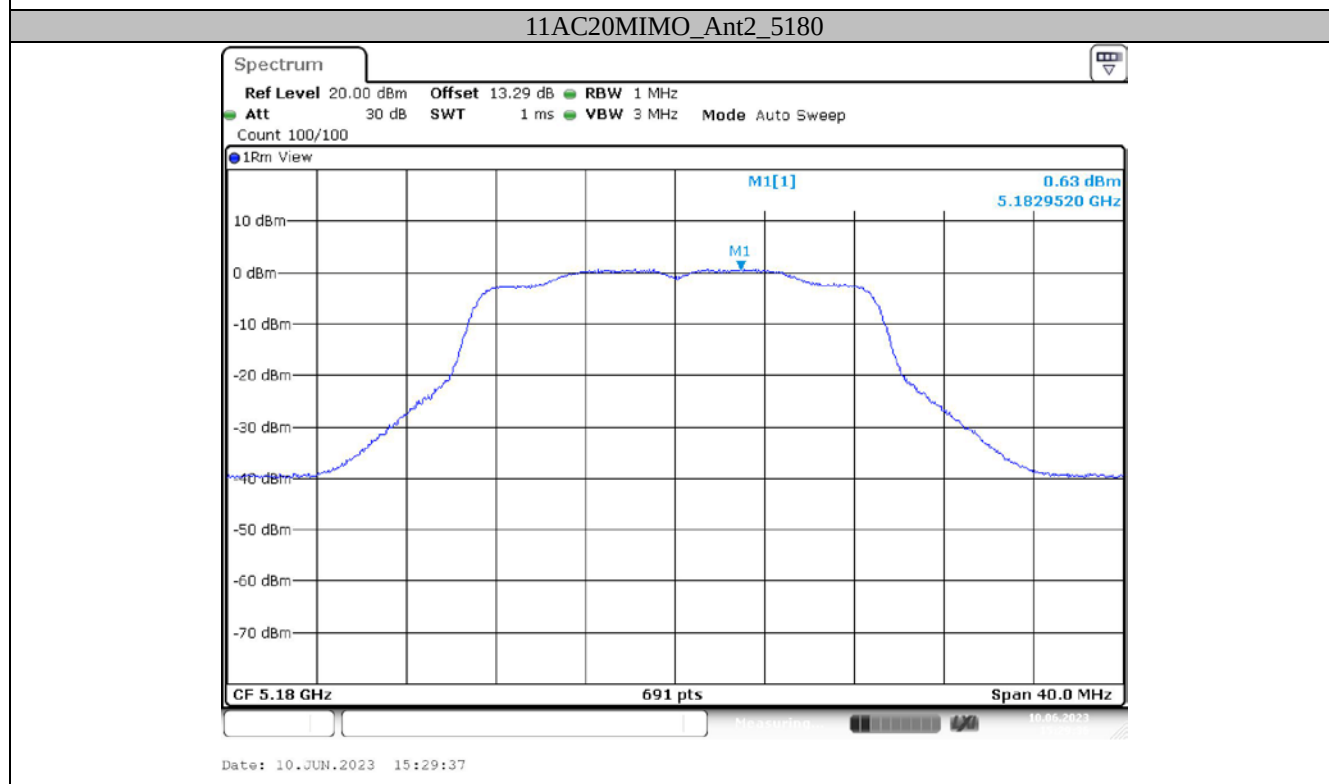
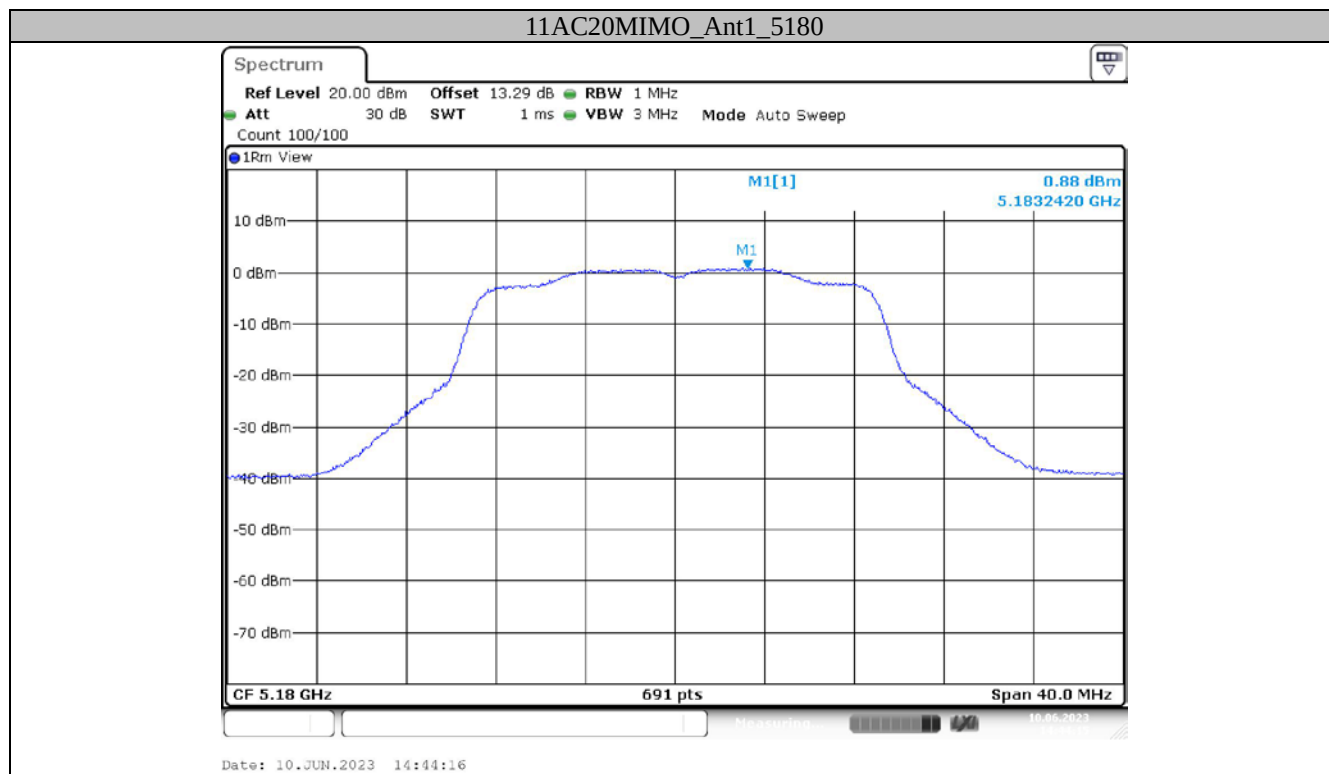


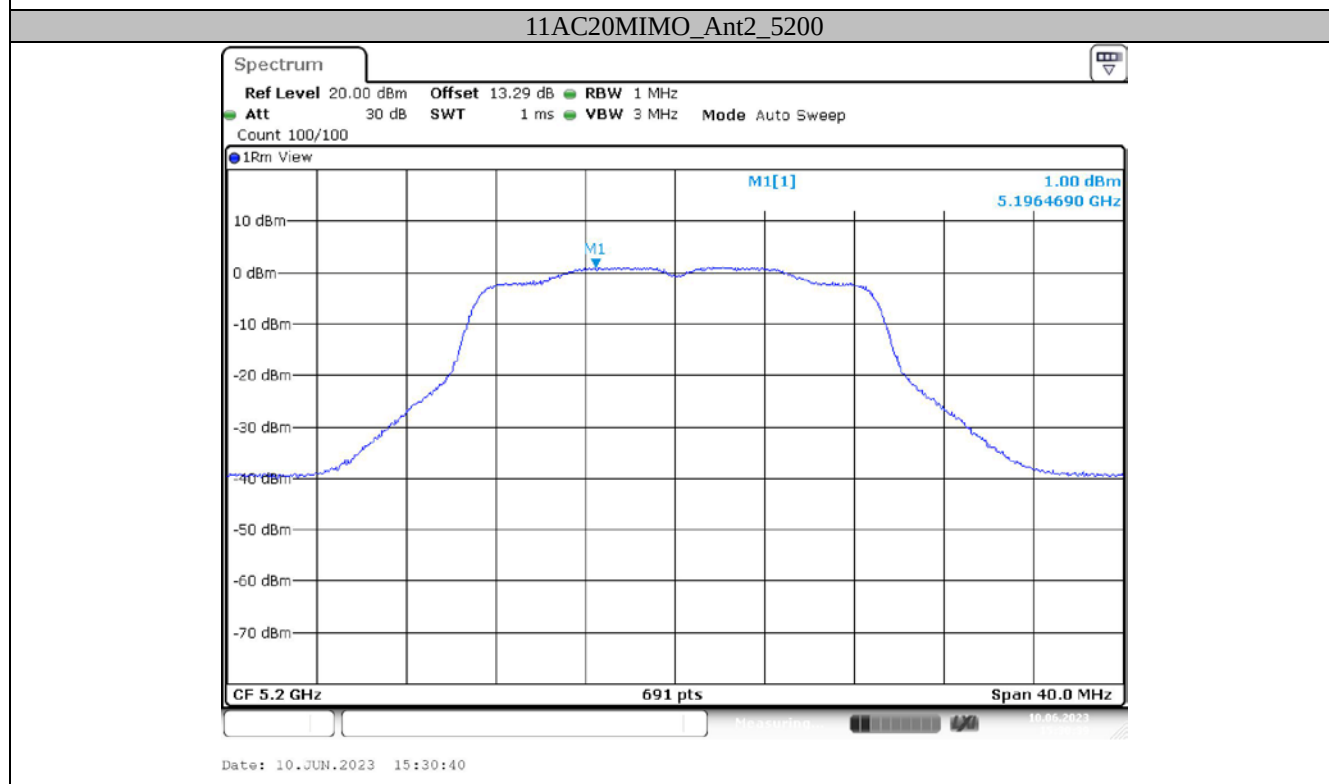
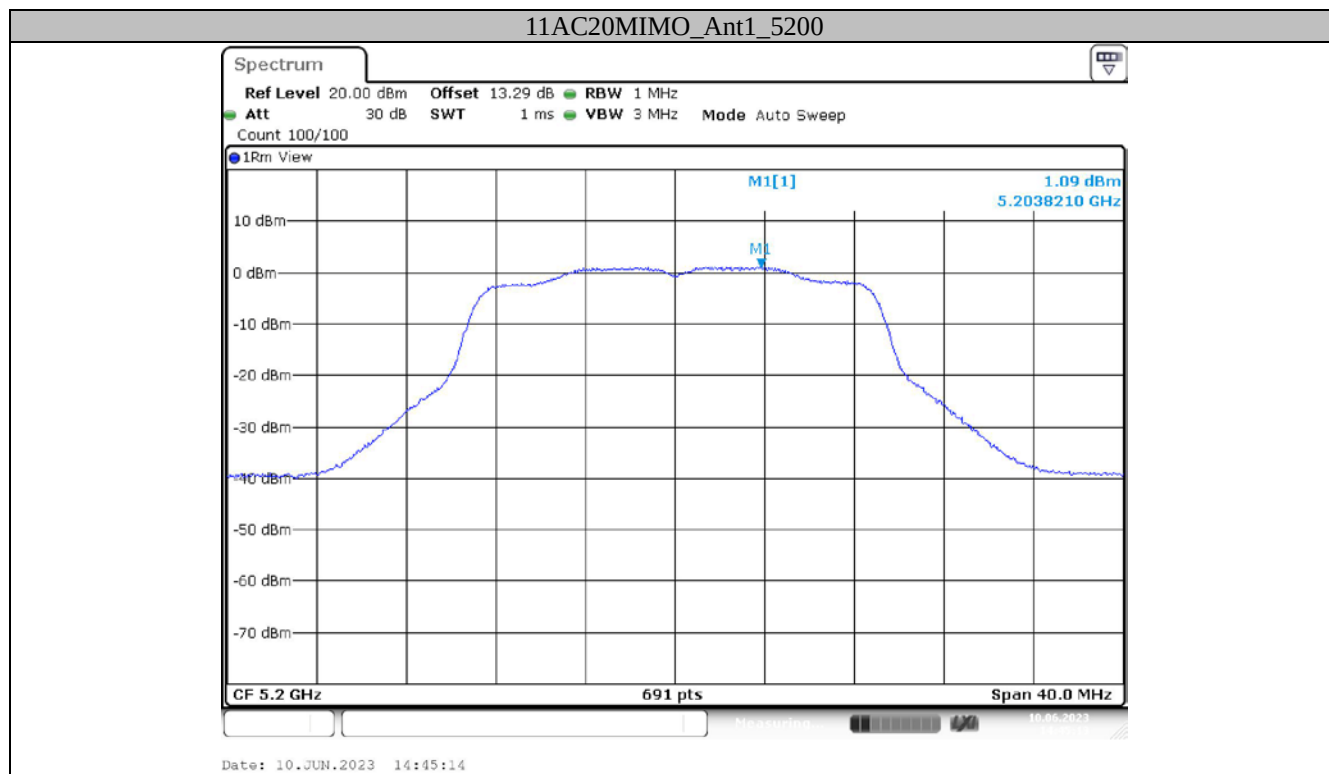


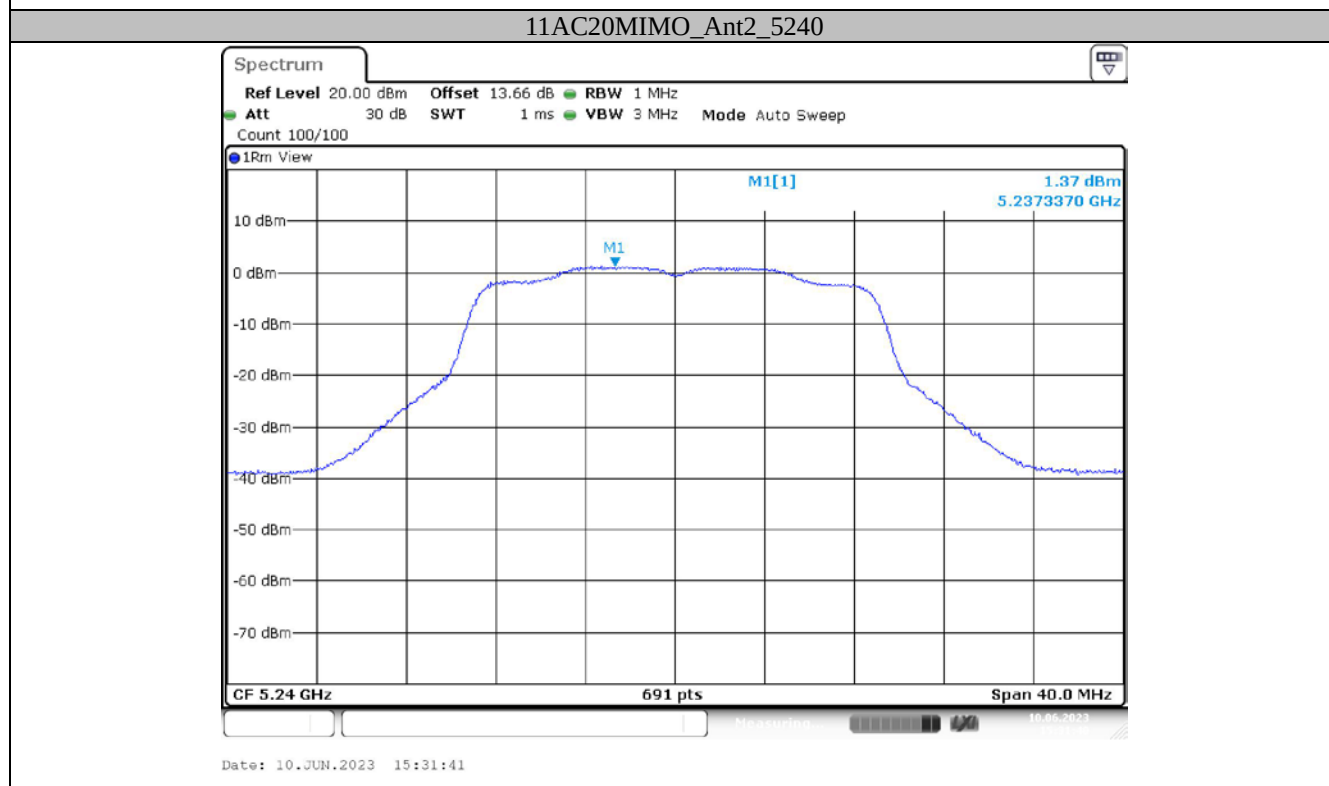
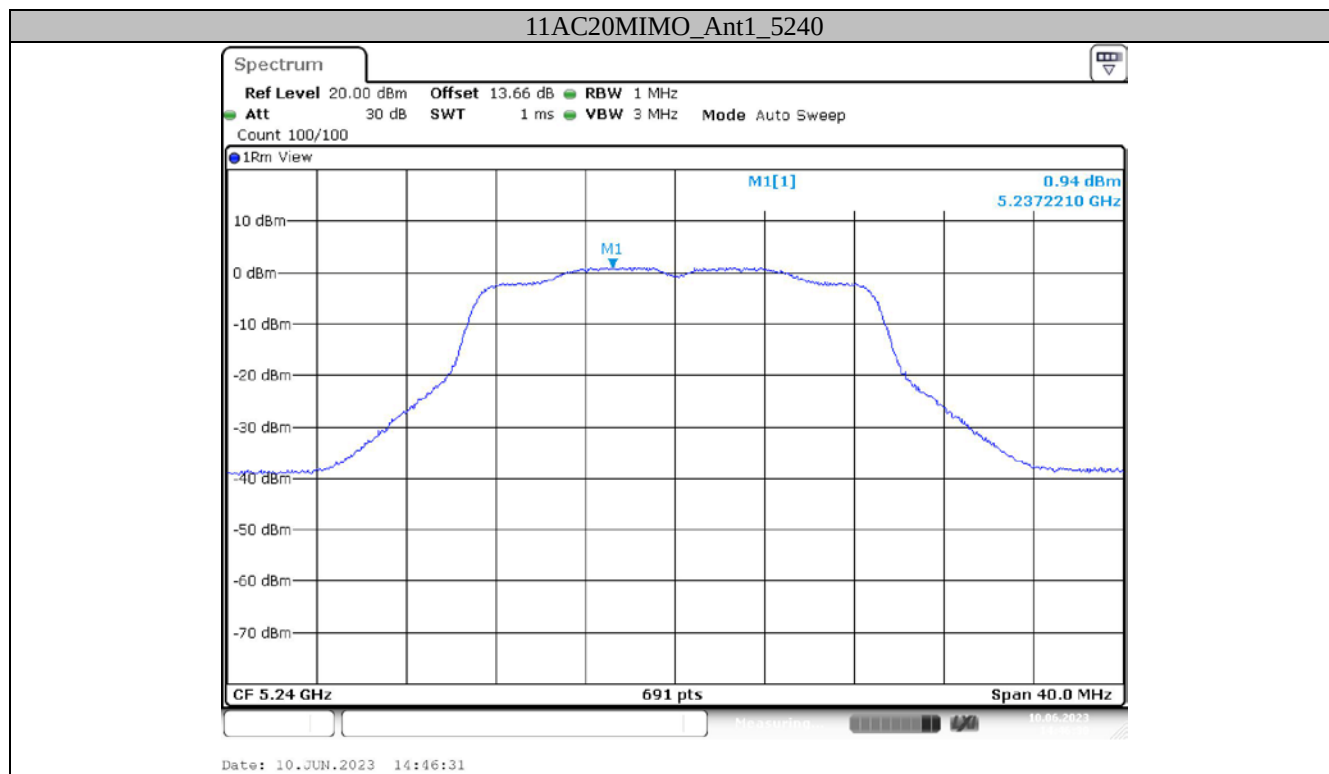


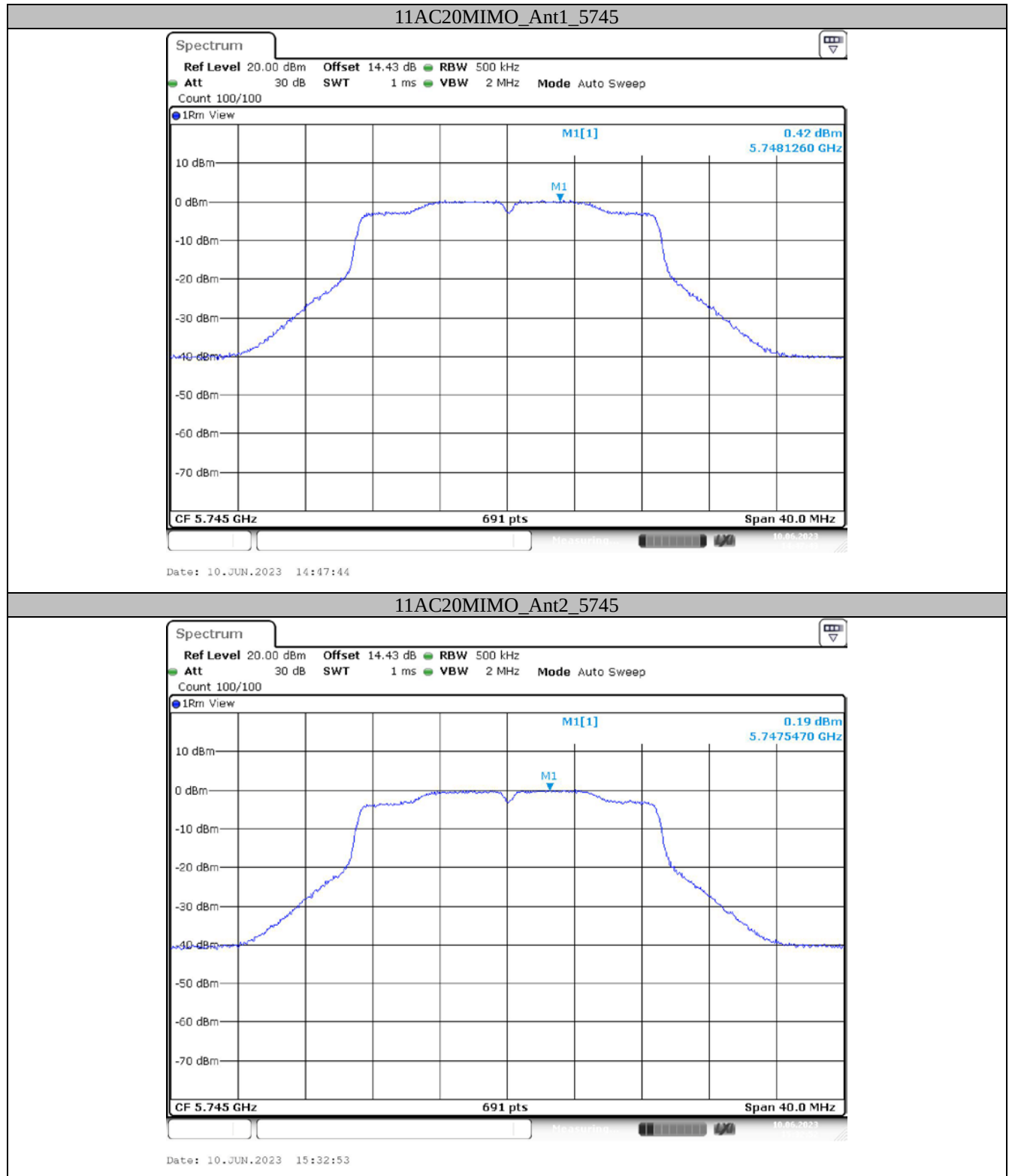












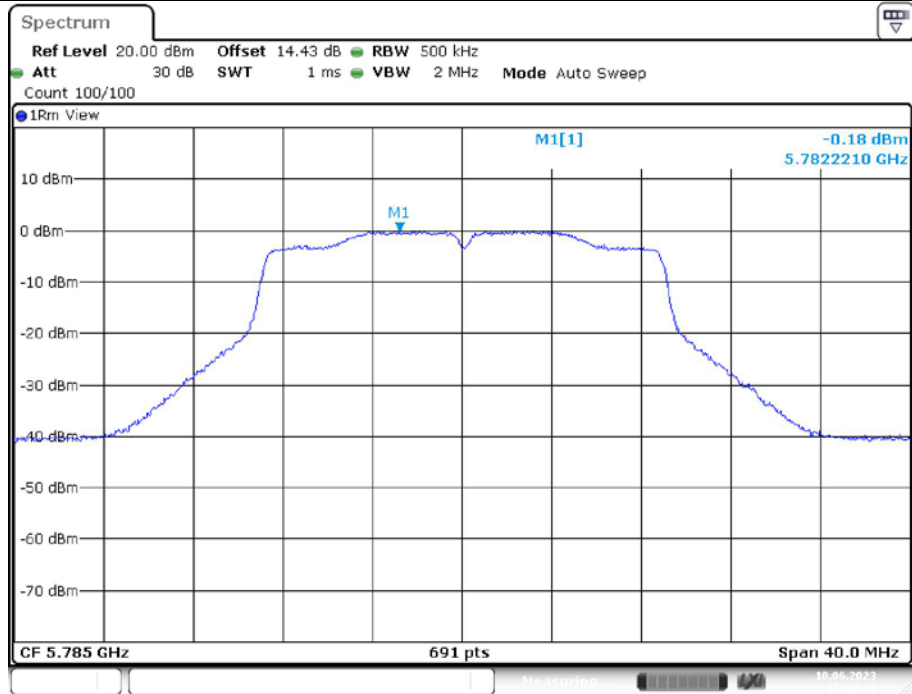


## 11AC20MIMO\_Ant1\_5785



Date: 10.JUN.2023 14:48:54

## 11AC20MIMO\_Ant2\_5785



Date: 10.JUN.2023 15:34:19

