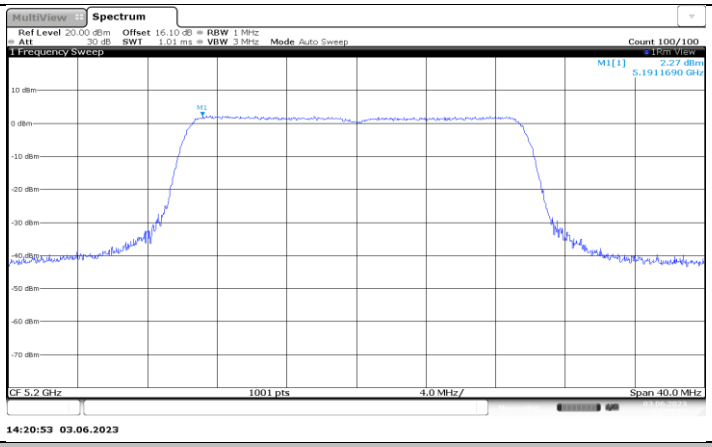
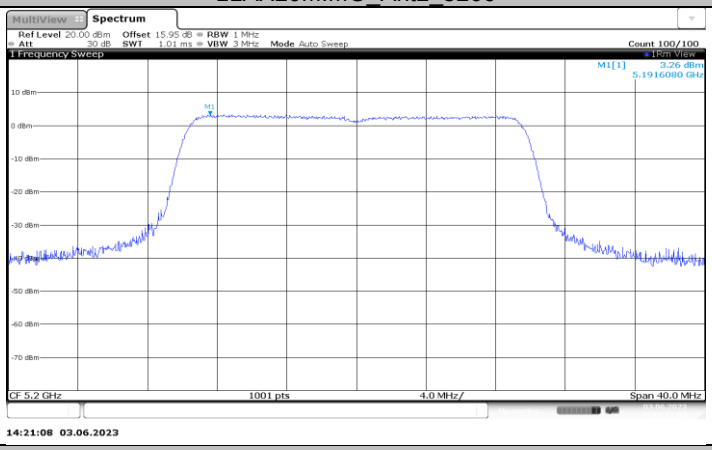
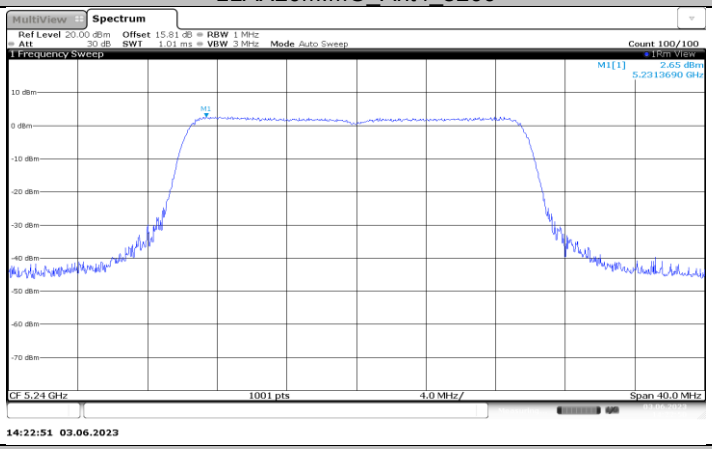


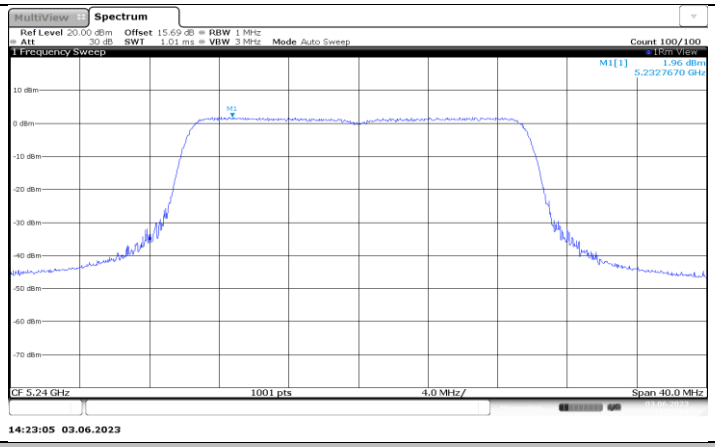

11AX20MIMO_Ant2_5200



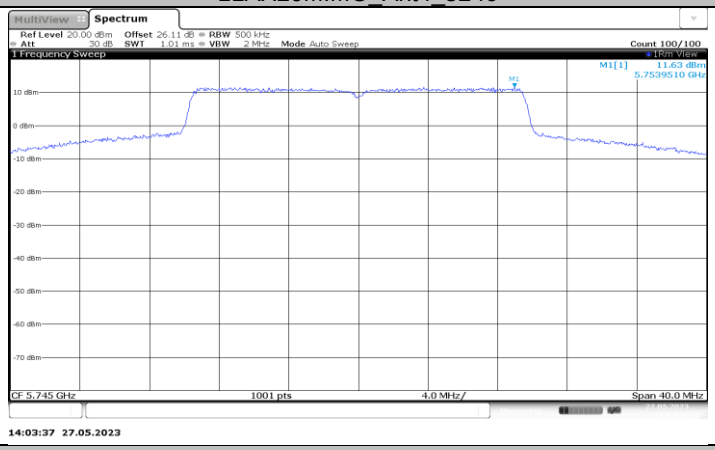

11AX20MIMO_Ant4_5200



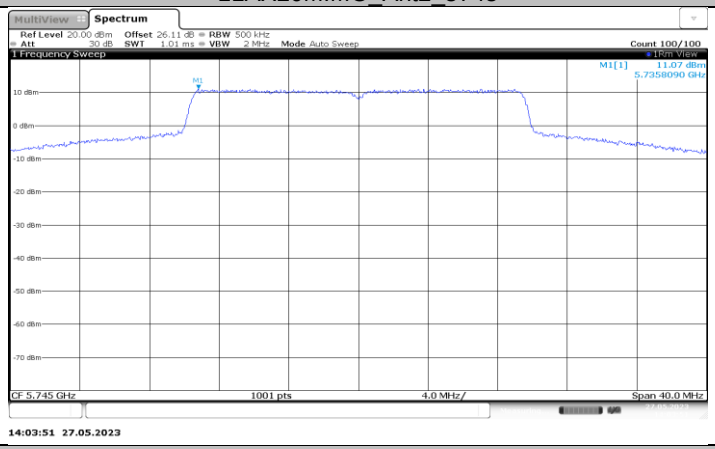

11AX20MIMO_Ant2_5240



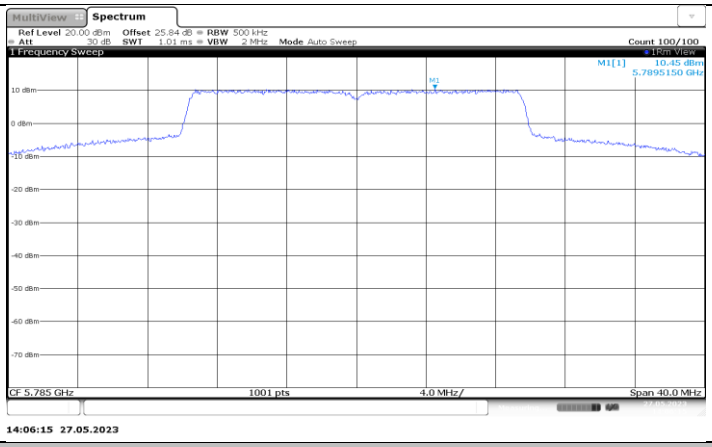

11AX20MIMO_Ant4_5240



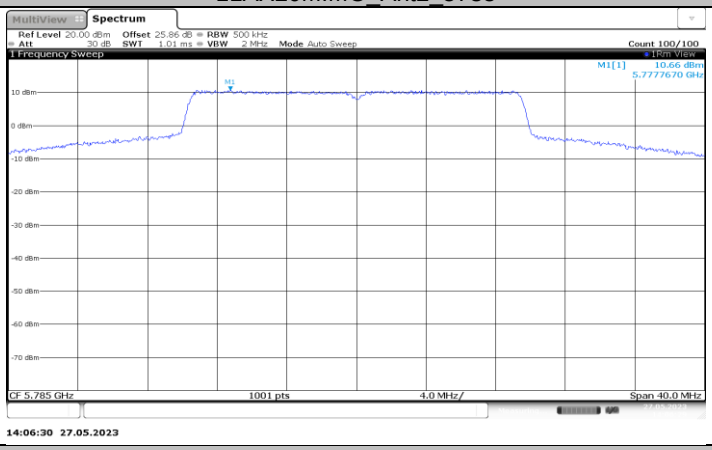

11AX20MIMO_Ant2_5745



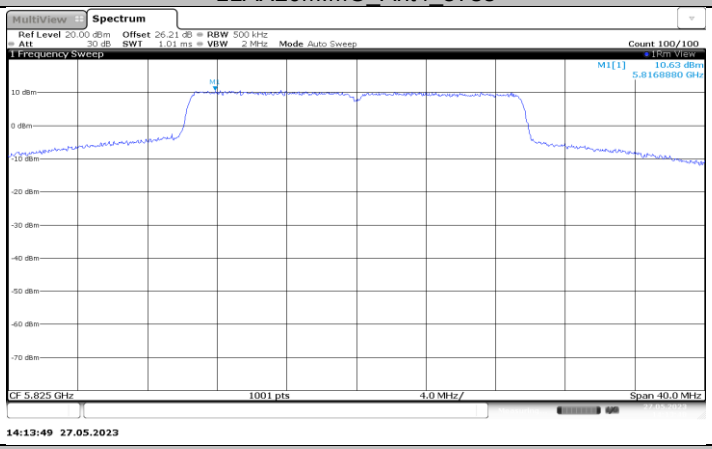

11AX20MIMO_Ant4_5745



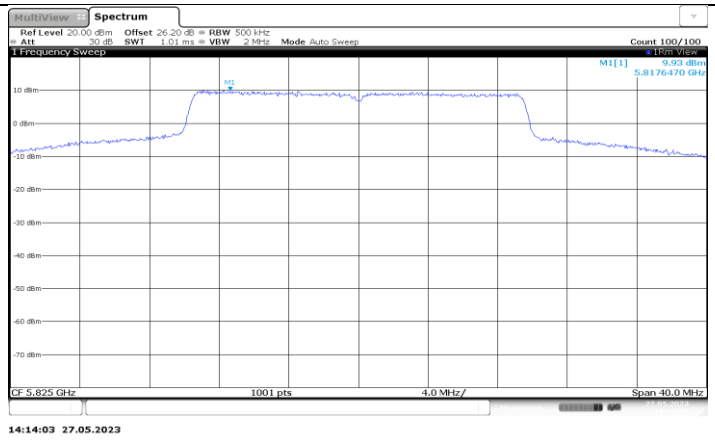

11AX20MIMO_Ant2_5785



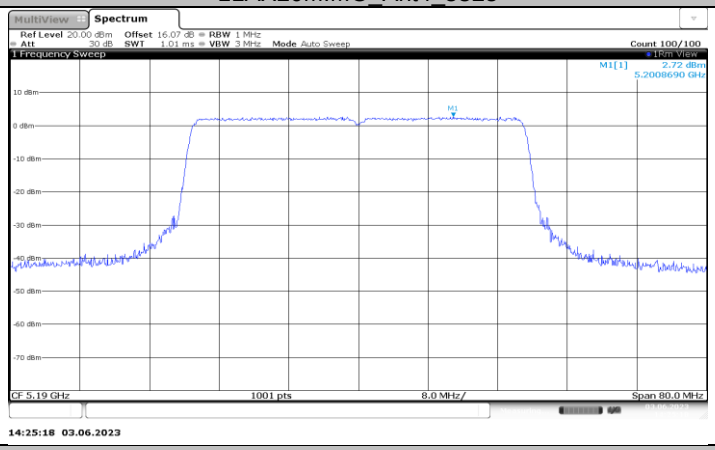

11AX20MIMO_Ant4_5785



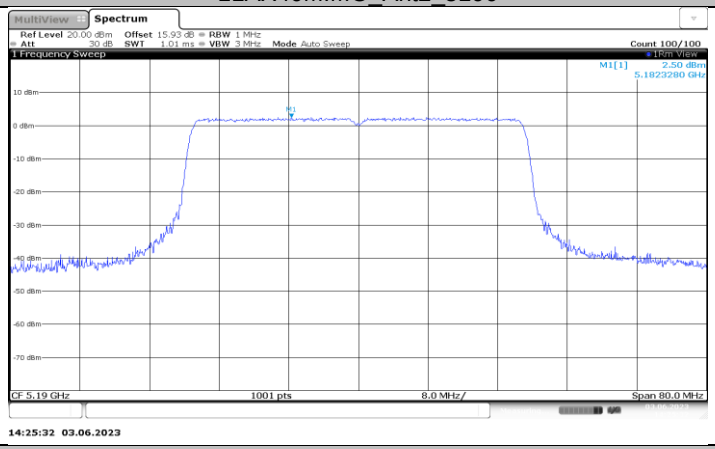

11AX20MIMO_Ant2_5825



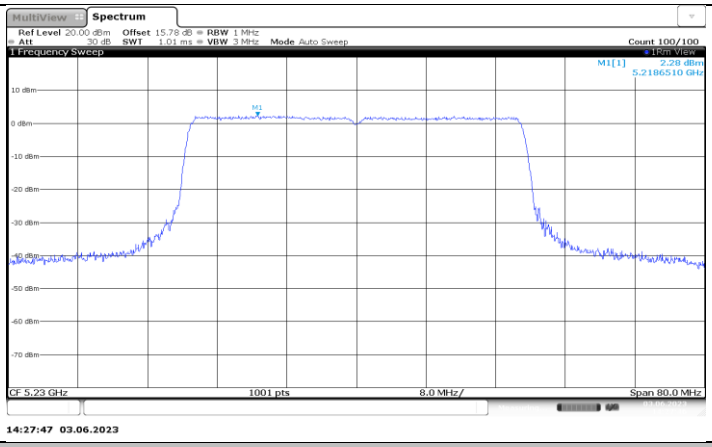

11AX20MIMO_Ant4_5825



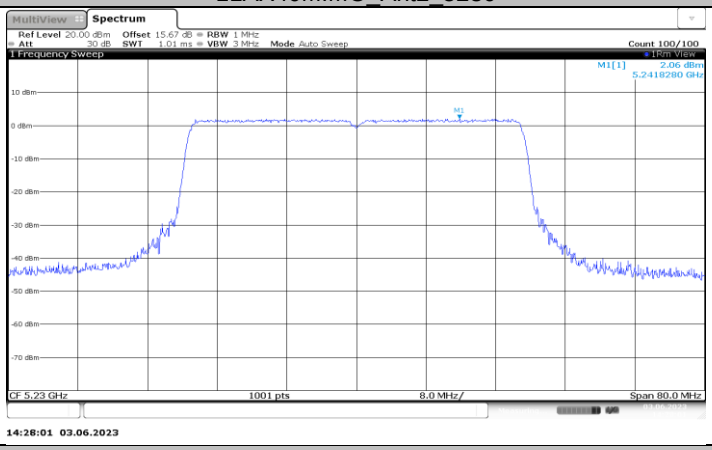

11AX40MIMO_Ant2_5190



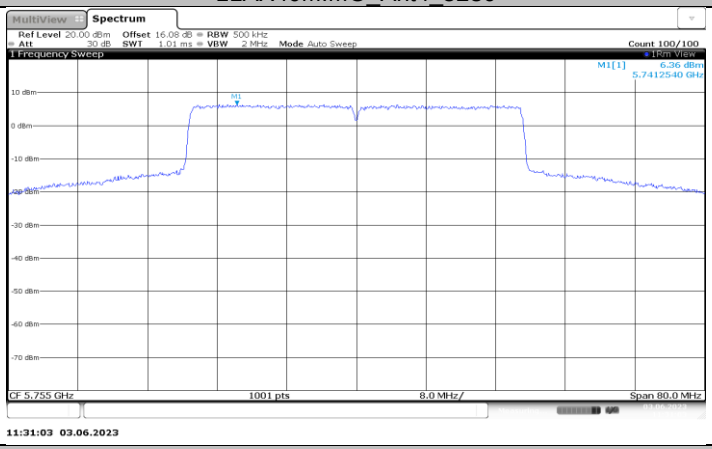

11AX40MIMO_Ant4_5190



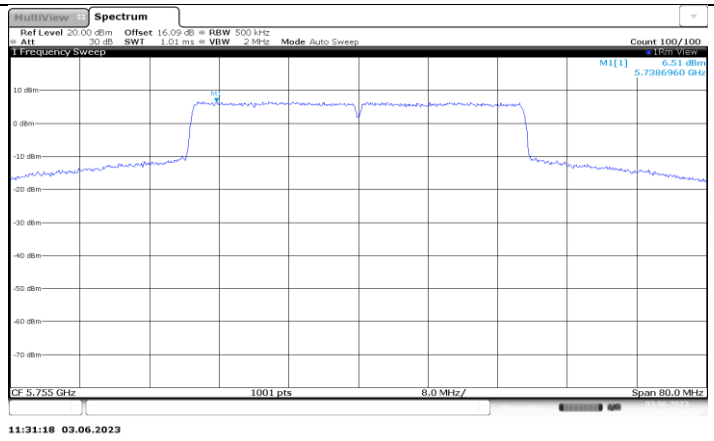

11AX40MIMO_Ant2_5230



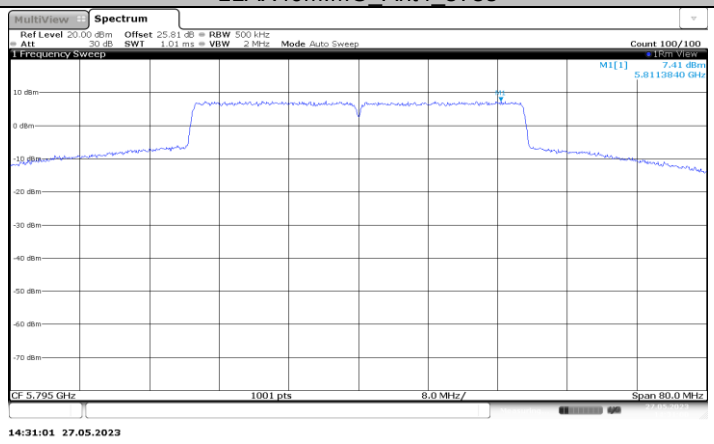

11AX40MIMO_Ant4_5230



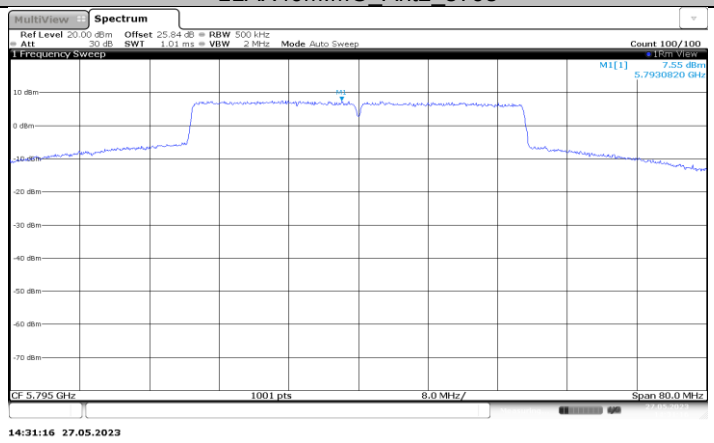

11AX40MIMO_Ant2_5755



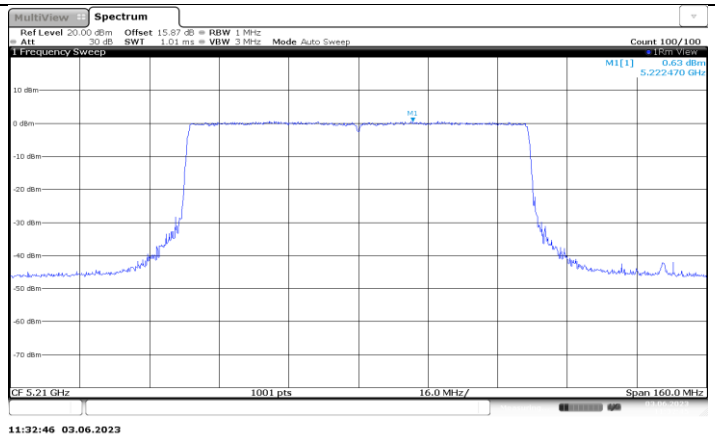

11AX40MIMO_Ant4_5755



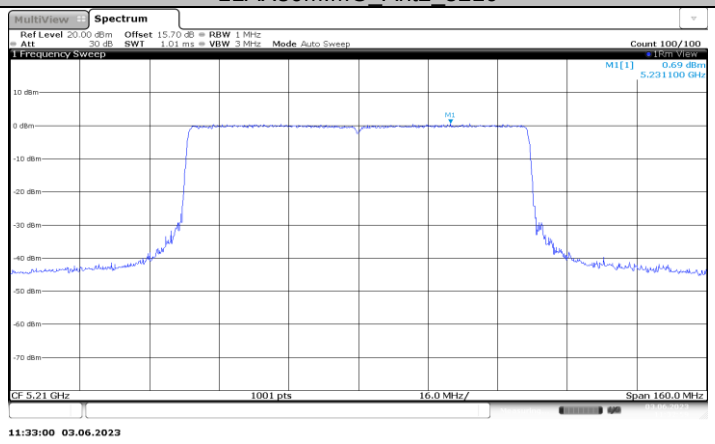

11AX40MIMO_Ant2_5795



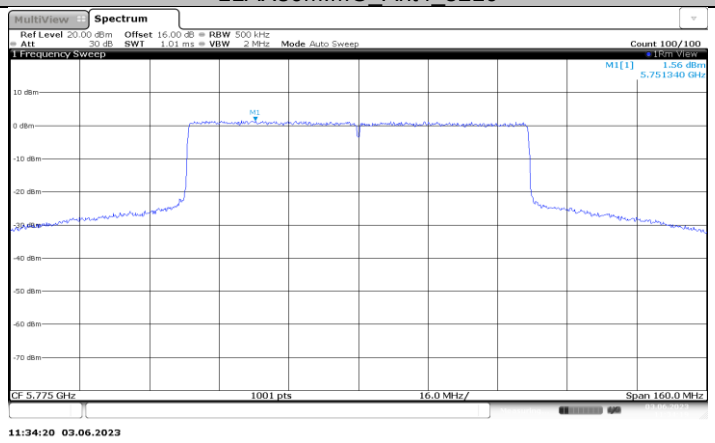

11AX40MIMO_Ant4_5795



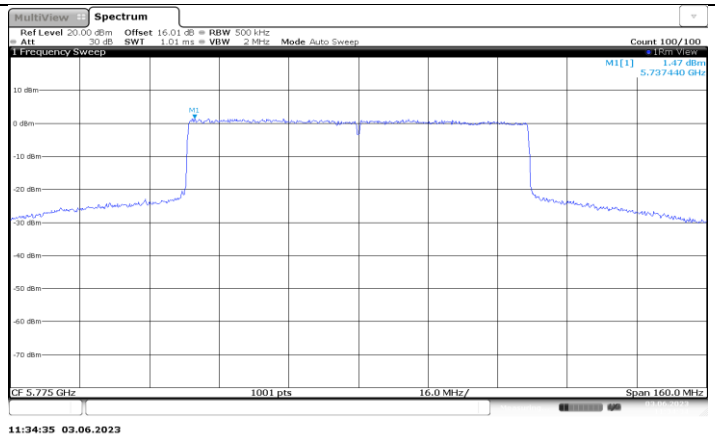

11AX80MIMO_Ant2_5210



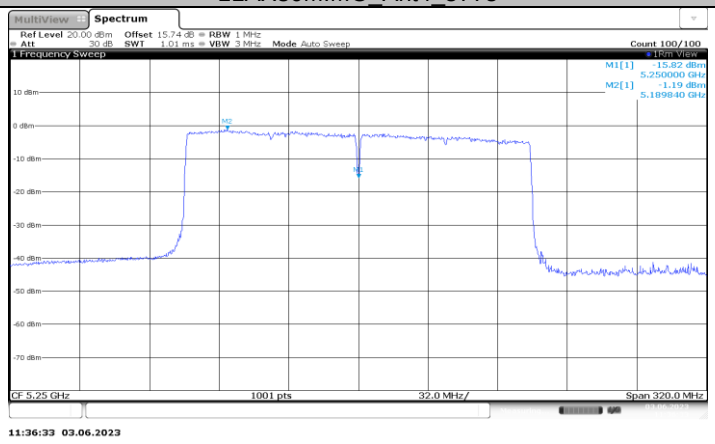

11AX80MIMO_Ant4_5210



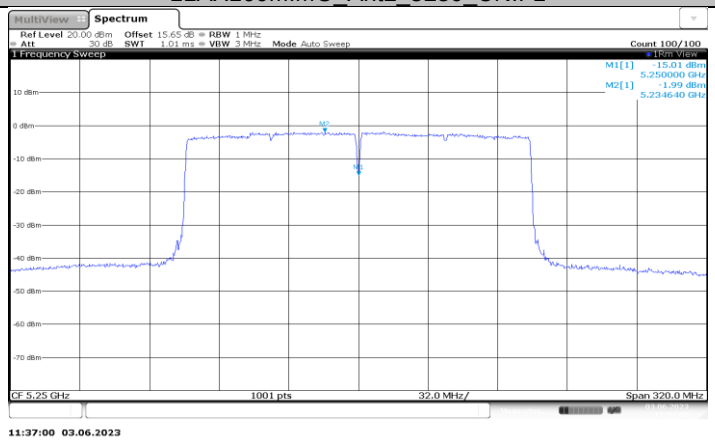

11AX80MIMO_Ant2_5775



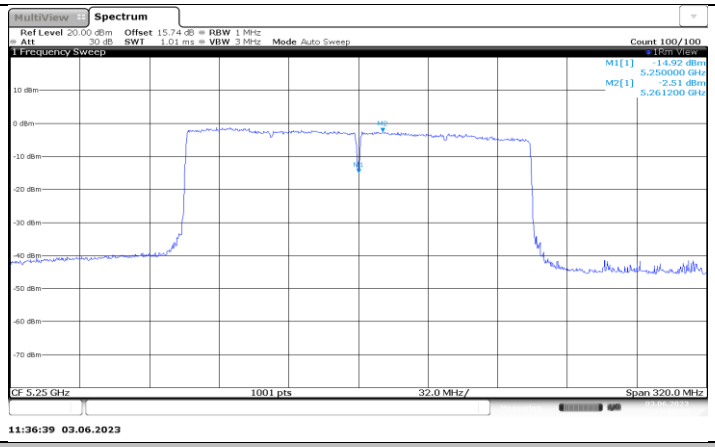

11AX80MIMO_Ant4_5775



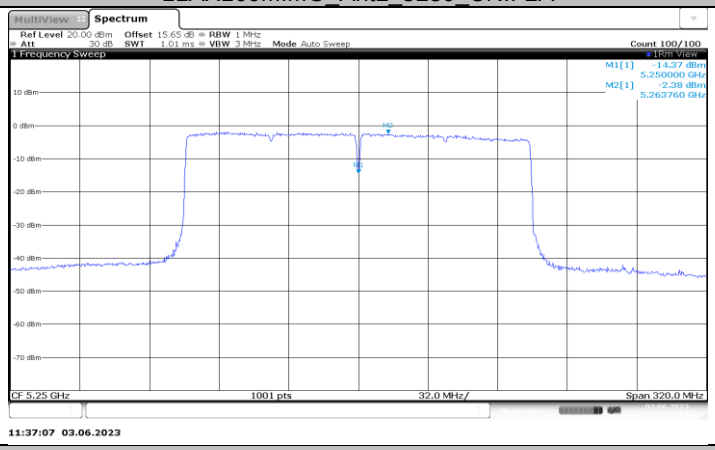

11AX160MIMO_Ant2_5250_UNII-1




11AX160MIMO_Ant4_5250_UNII-1




11AX160MIMO_Ant2_5250_UNII-2A




11AX160MIMO_Ant4_5250_UNII-2A

## 11.6. APPENDIX F: FREQUENCY STABILITY

### 11.6.1. Test Result

| Frequency Error vs. Voltage | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 802.11a:5200MHz | | | | | | | | | |
| Temp. | Volt. | 0 Minute | | 2 Minute | | 5 Minute | | 10 Minute | |
| | | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) |
| TN | VL | 5199.9958 | -0.81 | 5200.0186 | 3.58 | 5200.0087 | 1.67 | 5199.9938 | -1.20 |
| TN | VN | 5199.9865 | -2.60 | 5199.9921 | -1.52 | 5200.0045 | 0.87 | 5200.0020 | 0.39 |
| TN | VH | 5199.9788 | -4.08 | 5199.9778 | -4.28 | 5199.9912 | -1.70 | 5200.0148 | 2.84 |
| Frequency Error vs. Temperature | | | | | | | | | |
| 802.11a:5200MHz | | | | | | | | | |
| Temp. | Volt. | 0 Minute | | 2 Minute | | 5 Minute | | 10 Minute | |
| | | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) |
| 40 | VN | 5200.0195 | 3.74 | 5199.9827 | -3.33 | 5199.9953 | -0.90 | 5200.0204 | 3.93 |
| 30 | VN | 5200.0149 | 2.86 | 5200.0200 | 3.84 | 5200.0008 | 0.16 | 5200.0095 | 1.83 |
| 20 | VN | 5200.0181 | 3.47 | 5199.9966 | -0.66 | 5200.0065 | 1.25 | 5199.9887 | -2.18 |
| 10 | VN | 5200.0098 | 1.89 | 5200.0191 | 3.68 | 5200.0069 | 1.33 | 5200.0189 | 3.64 |
| 0 | VN | 5199.9792 | -4.00 | 5199.9914 | -1.65 | 5199.9835 | -3.18 | 5199.9962 | -0.74 |

Note:
1. All antennas, test modes and test channels have been tested, only the worst data record in the report.
2. For the detail Test Conditions, please refer to section 7.5 TEST ENVIRONMENT.

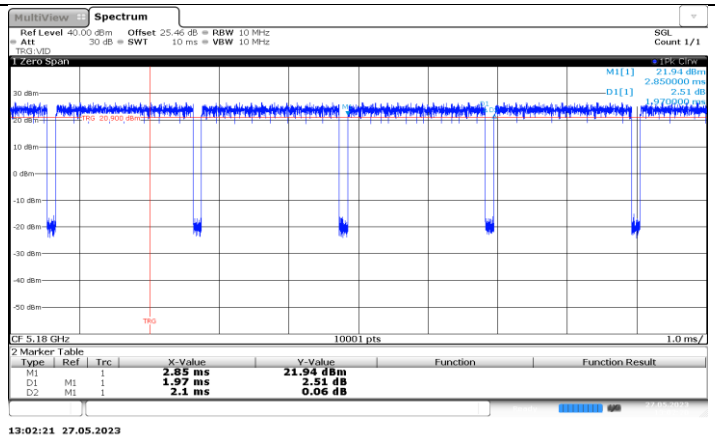
## 11.7. APPENDIX G: DUTY CYCLE

### 11.7.1. Test Result

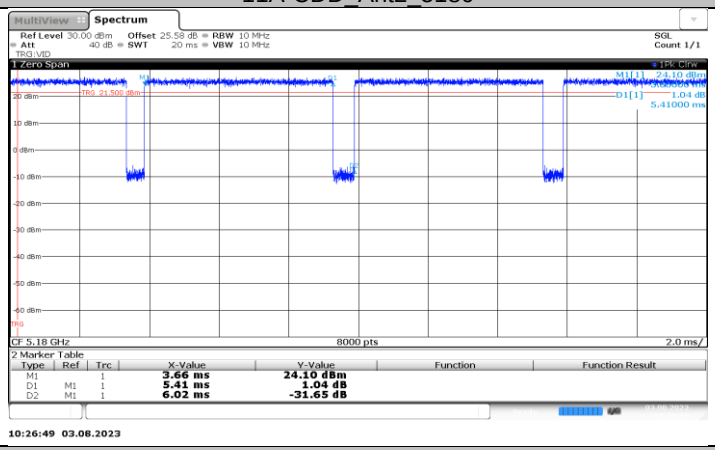
| Test Mode | On Time (msec) | Period (msec) | Duty Cycle x (Linear) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | 1/T Minimum VBW (kHz) | Final setting For VBW (kHz) |
|---|---|---|---|---|---|---|---|
| 11A-CDD | 1.97 | 2.10 | 0.9381 | 93.81 | 0.28 | 0.51 | 1 |
| 11AC20MIMO | 5.41 | 6.02 | 0.8987 | 89.87 | 0.46 | 0.18 | 0.5 |
| 11AC40MIMO | 5.41 | 6.02 | 0.8987 | 89.87 | 0.46 | 0.18 | 0.5 |
| 11AC80MIMO | 5.41 | 6.03 | 0.8972 | 89.72 | 0.47 | 0.18 | 0.5 |
| 11AC160MIMO | 5.41 | 6.09 | 0.8883 | 88.83 | 0.51 | 0.18 | 0.5 |
| 11AX20MIMO | 5.44 | 5.99 | 0.9082 | 90.82 | 0.42 | 0.18 | 0.5 |
| 11AX40MIMO | 5.45 | 5.96 | 0.9144 | 91.44 | 0.39 | 0.18 | 0.5 |
| 11AX80MIMO | 5.45 | 6.02 | 0.9053 | 90.53 | 0.43 | 0.18 | 0.5 |
| 11AX160MIMO | 5.44 | 6.03 | 0.9022 | 90.22 | 0.45 | 0.18 | 0.5 |

Note:
Duty Cycle Correction Factor=10log (1/x).
Where: x is Duty Cycle (Linear)
Where: T is On Time
If that calculated VBW is not available on the analyzer then the next higher value should be used.

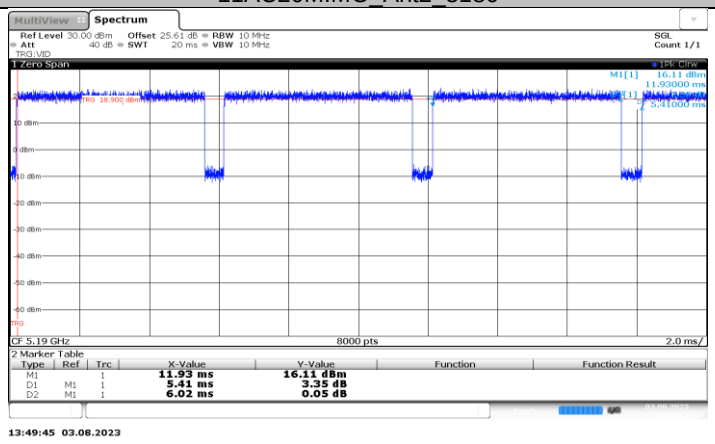
## 11.7.2. Test Graphs



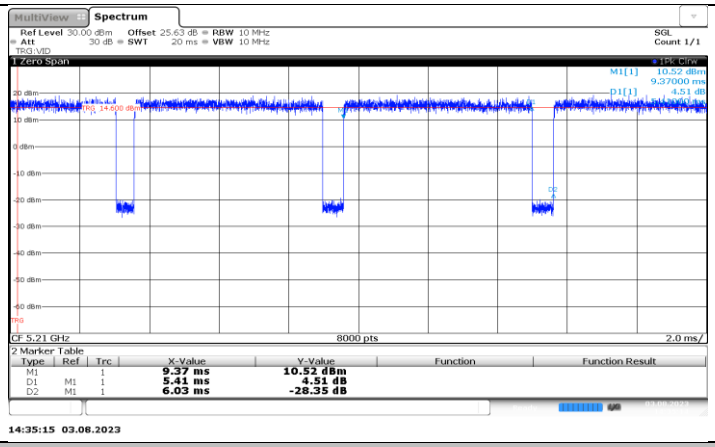

11A-CDD_Ant2_5180



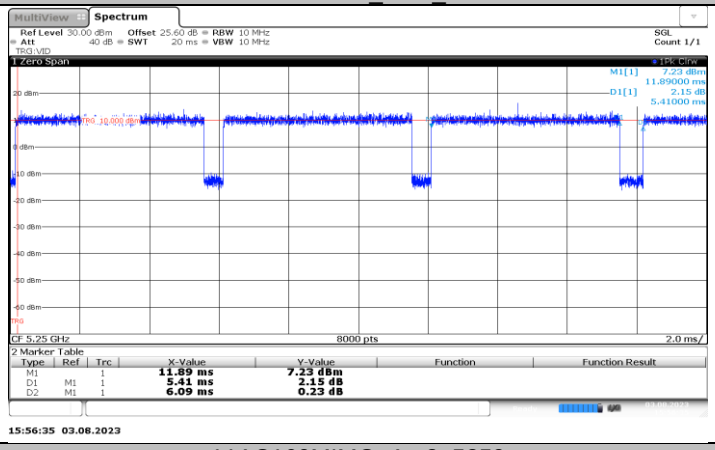

11AC20MIMO_Ant2_5180



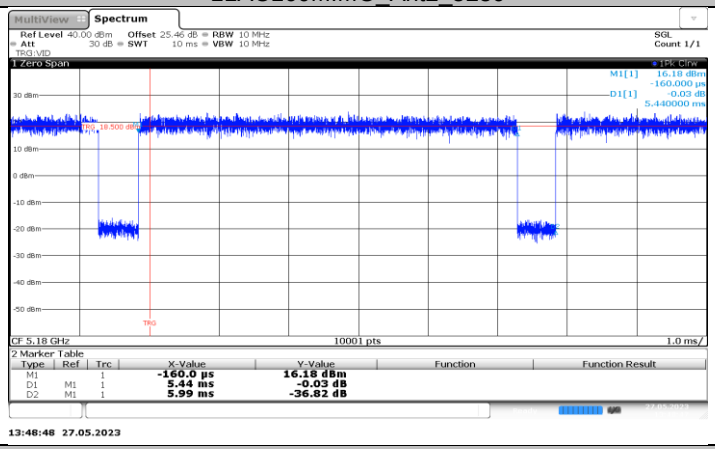

11AC40MIMO_Ant2_5190



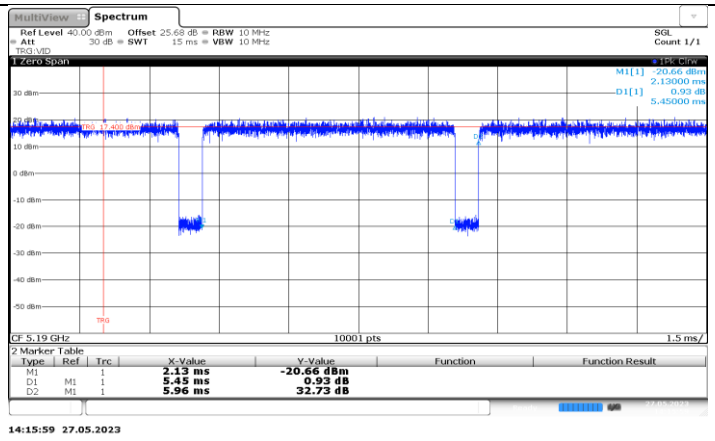

11AC80MIMO_Ant2_5210



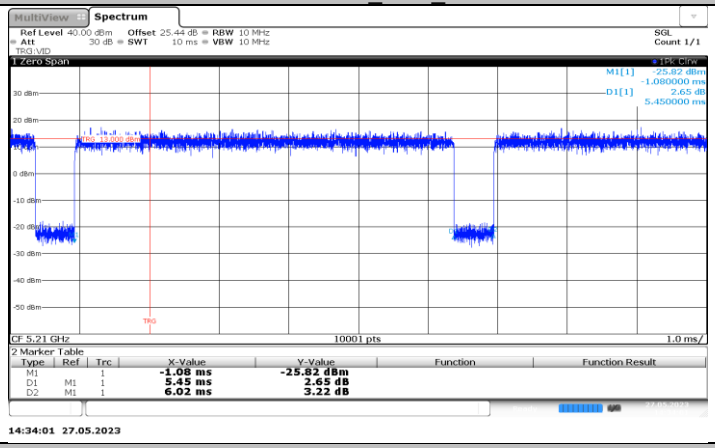

11AC160MIMO_Ant2_5250



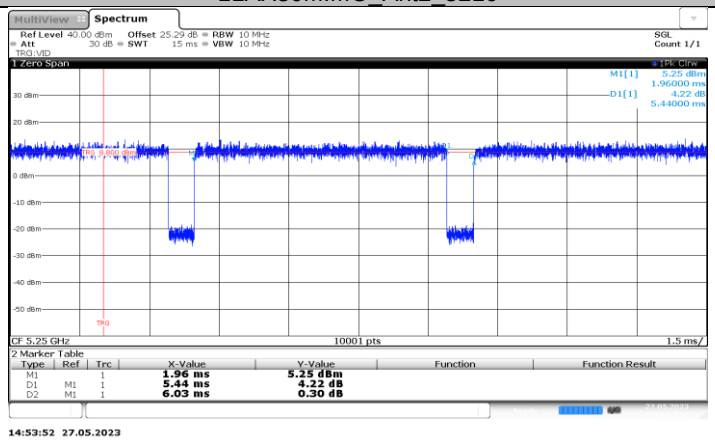

11AX20MIMO_Ant2_5180




11AX40MIMO_Ant2_5190




11AX80MIMO_Ant2_5210




11AX160MIMO_Ant2_5250

## END OF REPORT