

Appendix D: Frequency Stability

Test Result

| Test Mode | Antenna | Channel | Voltage | | | | Limit (ppm) | Verdict |
|----------------|---------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| | | | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | | |
| 11A | Ant1 | 5180 | NV | NT | -28370 | -5.476834 | 20 | PASS |
| | | | LV | NT | -28570 | -5.515444 | 20 | PASS |
| | | | HV | NT | -28370 | -5.476834 | 20 | PASS |
| 11AC20SI SO | Ant1 | 5180 | NV | NT | -24380 | -4.706564 | 20 | PASS |
| | | | LV | NT | -24980 | -4.822394 | 20 | PASS |
| | | | HV | NT | -25370 | -4.897683 | 20 | PASS |
| | | 5200 | NV | NT | -27770 | -5.340385 | 20 | PASS |
| | | | LV | NT | -27770 | -5.340385 | 20 | PASS |
| | | | HV | NT | -27970 | -5.378846 | 20 | PASS |
| | | 5240 | NV | NT | -28170 | -5.375954 | 20 | PASS |
| | | | LV | NT | -28170 | -5.375954 | 20 | PASS |
| | | | HV | NT | -28370 | -5.414122 | 20 | PASS |
| 11AC40SI SO | Ant1 | 5190 | NV | NT | -27770 | -5.350674 | 20 | PASS |
| | | | LV | NT | -27770 | -5.350674 | 20 | PASS |
| | | | HV | NT | -27570 | -5.312139 | 20 | PASS |
| | | 5230 | NV | NT | -27770 | -5.309751 | 20 | PASS |
| | | | LV | NT | -27970 | -5.347992 | 20 | PASS |
| | | | HV | NT | -27970 | -5.347992 | 20 | PASS |
| 11AC80SI SO | Ant1 | 5210 | NV | NT | -27570 | -5.291747 | 20 | PASS |
| | | | LV | NT | -27570 | -5.291747 | 20 | PASS |
| | | | HV | NT | -27770 | -5.330134 | 20 | PASS |
| 11AC20SI SO | Ant1 | 5745 | NV | NT | -24580 | -4.278503 | 20 | PASS |
| | | | LV | NT | -26770 | -4.659704 | 20 | PASS |
| | | | HV | NT | -27770 | -4.833768 | 20 | PASS |
| | | 5785 | NV | NT | -31970 | -5.526361 | 20 | PASS |
| | | | LV | NT | -31970 | -5.526361 | 20 | PASS |
| | | | HV | NT | -31970 | -5.526361 | 20 | PASS |
| | | 5825 | NV | NT | -32170 | -5.522747 | 20 | PASS |
| | | | LV | NT | -31970 | -5.488412 | 20 | PASS |
| | | | HV | NT | -32370 | -5.557082 | 20 | PASS |
| 11AC40SI SO | Ant1 | 5755 | NV | NT | -31170 | -5.416160 | 20 | PASS |
| | | | LV | NT | -31170 | -5.416160 | 20 | PASS |
| | | | HV | NT | -31370 | -5.450912 | 20 | PASS |
| | | 5795 | NV | NT | -31770 | -5.482312 | 20 | PASS |
| | | | LV | NT | -31770 | -5.482312 | 20 | PASS |
| | | | HV | NT | -31570 | -5.447800 | 20 | PASS |
| 11AC80SI SO | Ant1 | 5775 | NV | NT | -31370 | -5.432035 | 20 | PASS |
| | | | LV | NT | -31170 | -5.397403 | 20 | PASS |
| | | | HV | NT | -31370 | -5.432035 | 20 | PASS |

| Temperature | | | | | | | | |
|----------------|---------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Test Mode | Antenna | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| 11A | Ant1 | 5180 | NV | -30 | -28170 | -5.438224 | 20 | PASS |
| | | | NV | -20 | -28370 | -5.476834 | 20 | PASS |
| | | | NV | -10 | -28370 | -5.476834 | 20 | PASS |
| | | | NV | 0 | -28570 | -5.515444 | 20 | PASS |
| | | | NV | 10 | -28170 | -5.438224 | 20 | PASS |
| | | | NV | 20 | -28170 | -5.438224 | 20 | PASS |
| | | | NV | 30 | -28370 | -5.476834 | 20 | PASS |
| | | | NV | 40 | -28370 | -5.476834 | 20 | PASS |
| | | | NV | 50 | -28570 | -5.515444 | 20 | PASS |
| 11AC20SI SO | Ant1 | 5180 | NV | -30 | -26170 | -5.052124 | 20 | PASS |
| | | | NV | -20 | -26370 | -5.090734 | 20 | PASS |
| | | | NV | -10 | -26770 | -5.167954 | 20 | PASS |
| | | | NV | 0 | -26770 | -5.167954 | 20 | PASS |
| | | | NV | 10 | -26970 | -5.206564 | 20 | PASS |
| | | | NV | 20 | -27370 | -5.283784 | 20 | PASS |
| | | | NV | 30 | -27170 | -5.245174 | 20 | PASS |
| | | | NV | 40 | -27370 | -5.283784 | 20 | PASS |
| | | | NV | 50 | -27570 | -5.322394 | 20 | PASS |
| | | 5200 | NV | -30 | -27970 | -5.378846 | 20 | PASS |
| | | | NV | -20 | -27770 | -5.340385 | 20 | PASS |
| | | | NV | -10 | -27770 | -5.340385 | 20 | PASS |
| | | | NV | 0 | -27970 | -5.378846 | 20 | PASS |
| | | | NV | 10 | -27970 | -5.378846 | 20 | PASS |
| | | | NV | 20 | -28170 | -5.417308 | 20 | PASS |
| | | | NV | 30 | -27970 | -5.378846 | 20 | PASS |
| | | | NV | 40 | -27970 | -5.378846 | 20 | PASS |
| | | | NV | 50 | -28170 | -5.417308 | 20 | PASS |
| | | 5240 | NV | -30 | -28370 | -5.414122 | 20 | PASS |
| | | | NV | -20 | -28170 | -5.375954 | 20 | PASS |
| | | | NV | -10 | -28170 | -5.375954 | 20 | PASS |
| | | | NV | 0 | -28370 | -5.414122 | 20 | PASS |
| | | | NV | 10 | -28370 | -5.414122 | 20 | PASS |
| | | | NV | 20 | -28570 | -5.45229 | 20 | PASS |
| | | | NV | 30 | -28170 | -5.375954 | 20 | PASS |
| | | | NV | 40 | -28170 | -5.375954 | 20 | PASS |
| | | | NV | 50 | -28370 | -5.414122 | 20 | PASS |
| 11AC40SI SO | Ant1 | 5190 | NV | -30 | -27770 | -5.350674 | 20 | PASS |
| | | | NV | -20 | -28170 | -5.427746 | 20 | PASS |
| | | | NV | -10 | -27770 | -5.350674 | 20 | PASS |
| | | | NV | 0 | -27770 | -5.350674 | 20 | PASS |
| | | | NV | 10 | -27770 | -5.350674 | 20 | PASS |
| | | | NV | 20 | -27970 | -5.389210 | 20 | PASS |

| | | | | | | | | |
|----------------|------|------|----|-----|--------|-----------|----|------|
| | | | NV | 30 | -27770 | -5.350674 | 20 | PASS |
| | | | NV | 40 | -27970 | -5.389210 | 20 | PASS |
| | | | NV | 50 | -27770 | -5.350674 | 20 | PASS |
| | | 5230 | NV | -30 | -27770 | -5.309751 | 20 | PASS |
| | | | NV | -20 | -27970 | -5.347992 | 20 | PASS |
| | | | NV | -10 | -27770 | -5.309751 | 20 | PASS |
| | | | NV | 0 | -27770 | -5.309751 | 20 | PASS |
| | | | NV | 10 | -27970 | -5.347992 | 20 | PASS |
| | | | NV | 20 | -27970 | -5.347992 | 20 | PASS |
| | | | NV | 30 | -27970 | -5.347992 | 20 | PASS |
| | | | NV | 40 | -27770 | -5.309751 | 20 | PASS |
| | | | NV | 50 | -27970 | -5.347992 | 20 | PASS |
| 11AC80SI SO | Ant1 | 5210 | NV | -30 | -27570 | -5.291747 | 20 | PASS |
| | | | NV | -20 | -27570 | -5.291747 | 20 | PASS |
| | | | NV | -10 | -27370 | -5.253359 | 20 | PASS |
| | | | NV | 0 | -27570 | -5.291747 | 20 | PASS |
| | | | NV | 10 | -27570 | -5.291747 | 20 | PASS |
| | | | NV | 20 | -27570 | -5.291747 | 20 | PASS |
| | | | NV | 30 | -27570 | -5.291747 | 20 | PASS |
| | | | NV | 40 | -27570 | -5.291747 | 20 | PASS |
| | | | NV | 50 | -27370 | -5.253359 | 20 | PASS |
| 11AC20SI SO | Ant1 | 5745 | NV | -30 | -28970 | -5.042646 | 20 | PASS |
| | | | NV | -20 | -29770 | -5.181897 | 20 | PASS |
| | | | NV | -10 | -30170 | -5.251523 | 20 | PASS |
| | | | NV | 0 | -30570 | -5.321149 | 20 | PASS |
| | | | NV | 10 | -30970 | -5.390775 | 20 | PASS |
| | | | NV | 20 | -30970 | -5.390775 | 20 | PASS |
| | | | NV | 30 | -31370 | -5.46040 | 20 | PASS |
| | | | NV | 40 | -31370 | -5.46040 | 20 | PASS |
| | | | NV | 50 | -31570 | -5.495213 | 20 | PASS |
| | | 5785 | NV | -30 | -31770 | -5.491789 | 20 | PASS |
| | | | NV | -20 | -31970 | -5.526361 | 20 | PASS |
| | | | NV | -10 | -31770 | -5.491789 | 20 | PASS |
| | | | NV | 0 | -31770 | -5.491789 | 20 | PASS |
| | | | NV | 10 | -31970 | -5.526361 | 20 | PASS |
| | | | NV | 20 | -31970 | -5.526361 | 20 | PASS |
| | | | NV | 30 | -31770 | -5.491789 | 20 | PASS |
| | | | NV | 40 | -31770 | -5.491789 | 20 | PASS |
| | | | NV | 50 | -31770 | -5.491789 | 20 | PASS |
| | | 5825 | NV | -30 | -32170 | -5.522747 | 20 | PASS |
| | | | NV | -20 | -32170 | -5.522747 | 20 | PASS |
| | | | NV | -10 | -32370 | -5.557082 | 20 | PASS |
| | | | NV | 0 | -32170 | -5.522747 | 20 | PASS |
| | | | NV | 10 | -32370 | -5.557082 | 20 | PASS |
| | | | NV | 20 | -32170 | -5.522747 | 20 | PASS |
| | | | NV | 30 | -32370 | -5.557082 | 20 | PASS |

| | | | | | | | | |
|----------------|------|------|----|-----|--------|-----------|----|------|
| | | | NV | 40 | -31970 | -5.488412 | 20 | PASS |
| | | | NV | 50 | -32370 | -5.557082 | 20 | PASS |
| 11AC40SI SO | Ant1 | 5755 | NV | -30 | -31370 | -5.450912 | 20 | PASS |
| | | | NV | -20 | -31570 | -5.485665 | 20 | PASS |
| | | | NV | -10 | -31370 | -5.450912 | 20 | PASS |
| | | | NV | 0 | -31570 | -5.485665 | 20 | PASS |
| | | | NV | 10 | -31570 | -5.485665 | 20 | PASS |
| | | | NV | 20 | -31370 | -5.450912 | 20 | PASS |
| | | | NV | 30 | -31770 | -5.520417 | 20 | PASS |
| | | | NV | 40 | -31770 | -5.520417 | 20 | PASS |
| | | | NV | 50 | -31570 | -5.485665 | 20 | PASS |
| | | 5795 | NV | -30 | -31770 | -5.482312 | 20 | PASS |
| | | | NV | -20 | -31970 | -5.516825 | 20 | PASS |
| | | | NV | -10 | -31770 | -5.482312 | 20 | PASS |
| | | | NV | 0 | -31970 | -5.516825 | 20 | PASS |
| | | | NV | 10 | -31770 | -5.482312 | 20 | PASS |
| | | | NV | 20 | -32170 | -5.551337 | 20 | PASS |
| | | | NV | 30 | -32170 | -5.551337 | 20 | PASS |
| | | | NV | 40 | -32170 | -5.551337 | 20 | PASS |
| | | | NV | 50 | -31770 | -5.482312 | 20 | PASS |
| 11AC80SI SO | Ant1 | 5775 | NV | -30 | -31570 | -5.466667 | 20 | PASS |
| | | | NV | -20 | -31570 | -5.466667 | 20 | PASS |
| | | | NV | -10 | -31570 | -5.466667 | 20 | PASS |
| | | | NV | 0 | -31770 | -5.501299 | 20 | PASS |
| | | | NV | 10 | -31770 | -5.501299 | 20 | PASS |
| | | | NV | 20 | -31770 | -5.501299 | 20 | PASS |
| | | | NV | 30 | -31770 | -5.501299 | 20 | PASS |
| | | | NV | 40 | -31770 | -5.501299 | 20 | PASS |
| | | | NV | 50 | -31770 | -5.501299 | 20 | PASS |

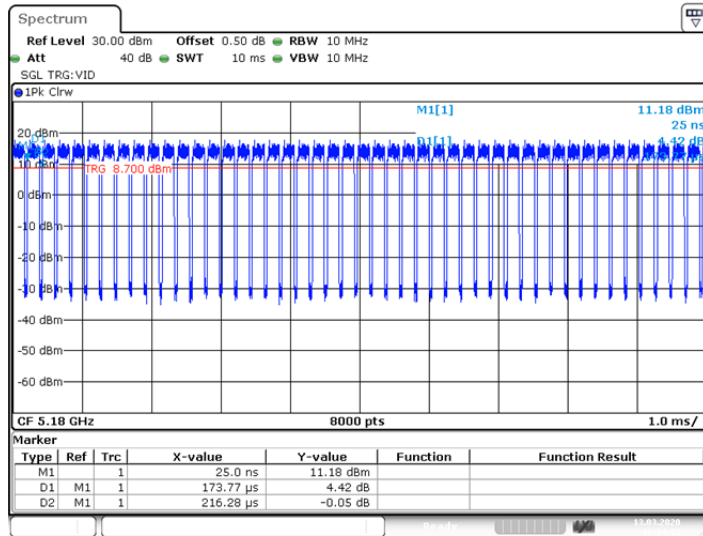
Appendix E: Duty Cycle

Test Result

| Test Mode | Antenna | Channel | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] |
|------------|---------|---------|----------------------------|--------------------------|----------------|
| 11A | Ant1 | 5180 | 0.174 | 0.216 | 80.35 |
| | | 5200 | 0.173 | 0.216 | 79.77 |
| | | 5240 | 0.174 | 0.216 | 80.35 |
| 11N20SISO | Ant1 | 5180 | 0.160 | 0.204 | 78.53 |
| | | 5200 | 0.160 | 0.204 | 78.53 |
| | | 5240 | 0.160 | 0.204 | 78.53 |
| 11N40SISO | Ant1 | 5190 | 0.100 | 0.141 | 70.44 |
| | | 5230 | 0.100 | 0.142 | 70.32 |
| 11AC20SISO | Ant1 | 5180 | 0.165 | 0.208 | 79.52 |
| | | 5200 | 0.165 | 0.209 | 79.04 |
| | | 5240 | 0.165 | 0.209 | 79.04 |
| 11AC40SISO | Ant1 | 5190 | 0.090 | 0.133 | 67.92 |
| | | 5230 | 0.091 | 0.133 | 68.87 |
| 11AC80SISO | Ant1 | 5210 | 0.062 | 0.104 | 59.28 |
| 11A | Ant1 | 5745 | 0.173 | 0.216 | 79.77 |
| | | 5785 | 0.173 | 0.216 | 79.77 |
| | | 5825 | 0.173 | 0.216 | 79.77 |
| 11N20SISO | Ant1 | 5745 | 0.161 | 0.204 | 79.14 |
| | | 5785 | 0.161 | 0.204 | 79.14 |
| | | 5825 | 0.161 | 0.204 | 79.14 |
| 11N40SISO | Ant1 | 5755 | 0.099 | 0.141 | 69.91 |
| | | 5795 | 0.098 | 0.140 | 69.64 |
| 11AC20SISO | Ant1 | 5745 | 0.164 | 0.208 | 78.92 |
| | | 5785 | 0.165 | 0.209 | 79.04 |
| | | 5825 | 0.165 | 0.208 | 79.52 |
| 11AC40SISO | Ant1 | 5755 | 0.090 | 0.133 | 67.92 |
| | | 5795 | 0.091 | 0.133 | 68.87 |
| 11AC80SISO | Ant1 | 5775 | 0.063 | 0.105 | 59.52 |

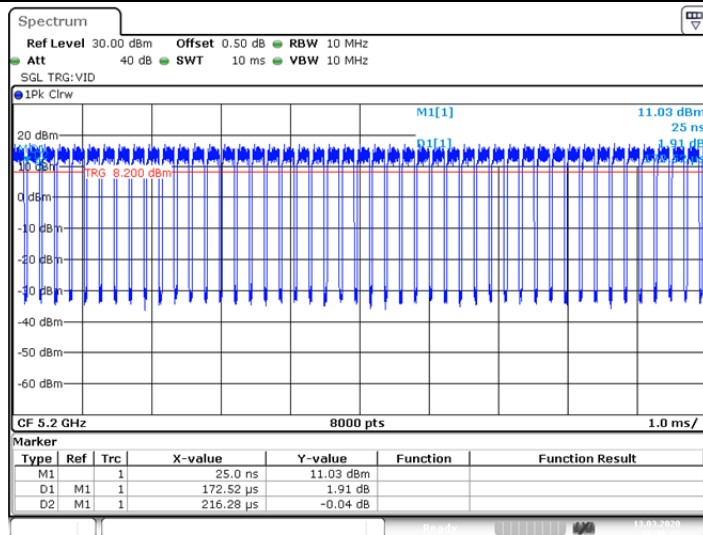
Test Graphs

11A_Ant1_5180



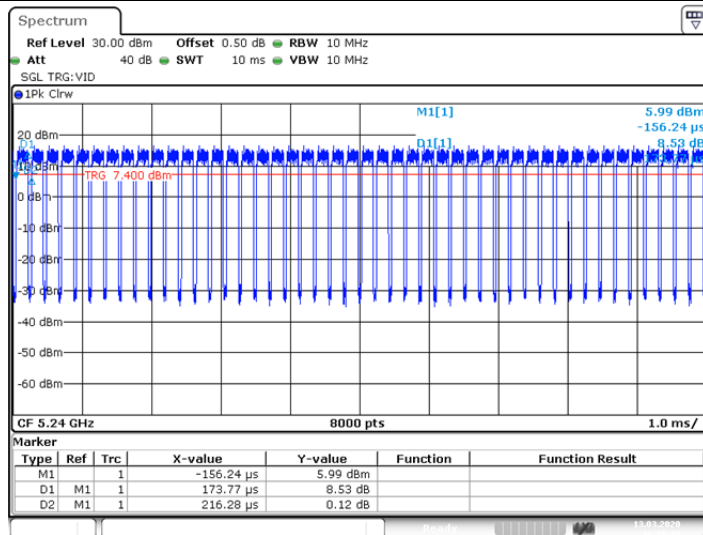
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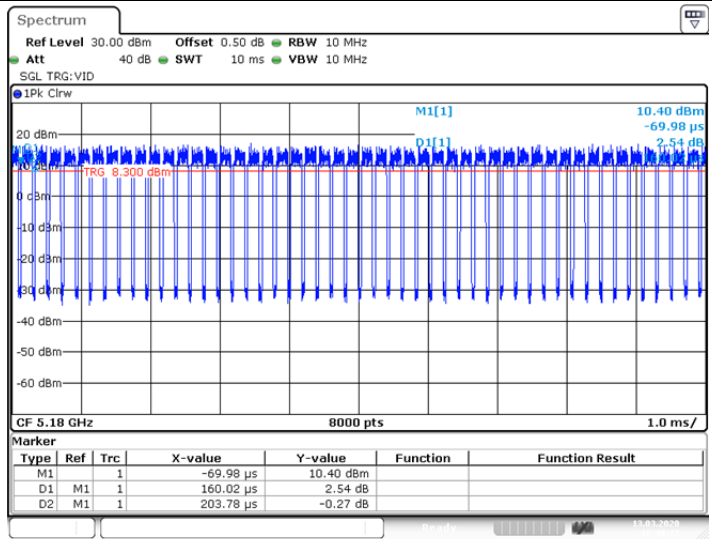
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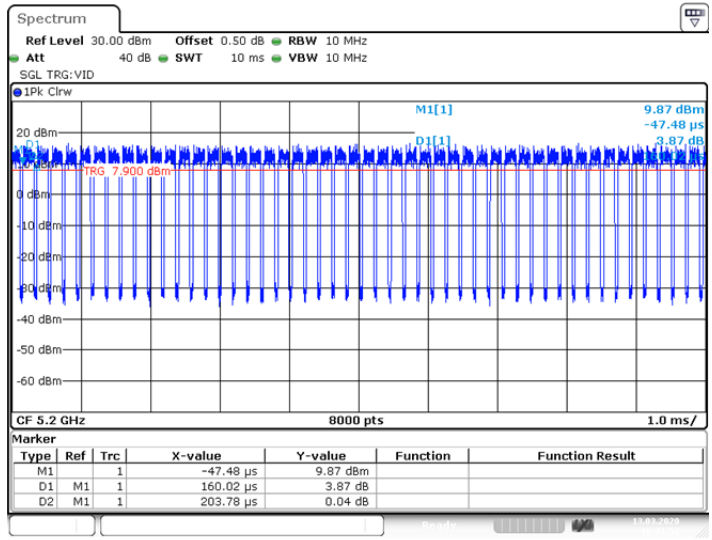
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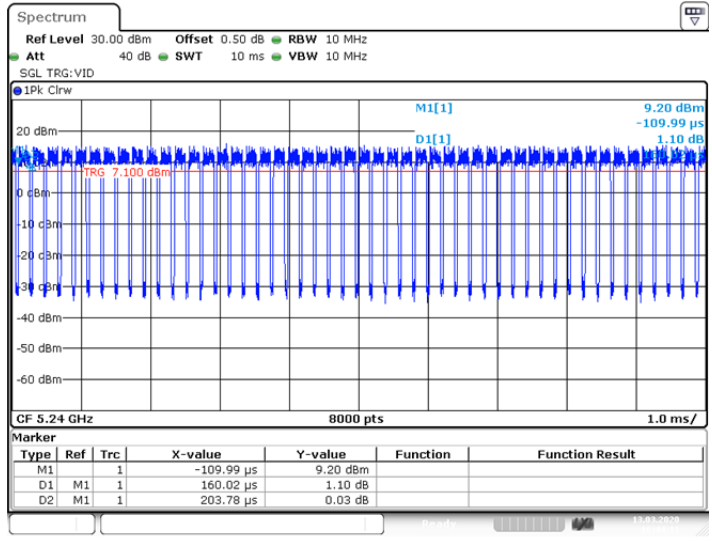
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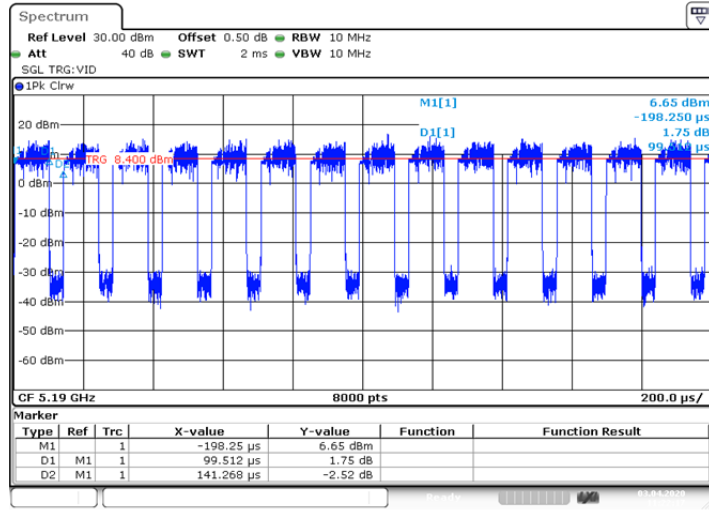
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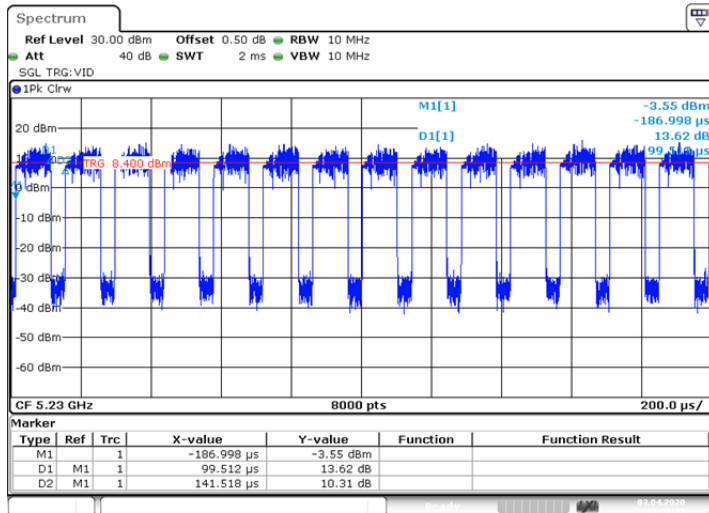
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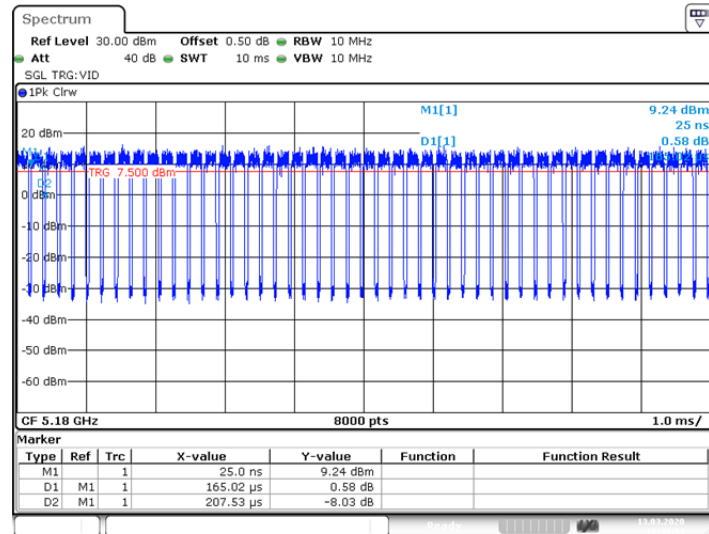
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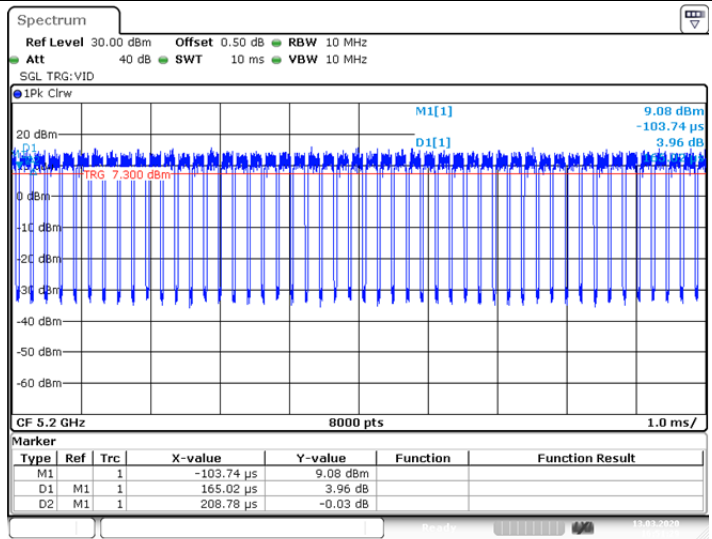
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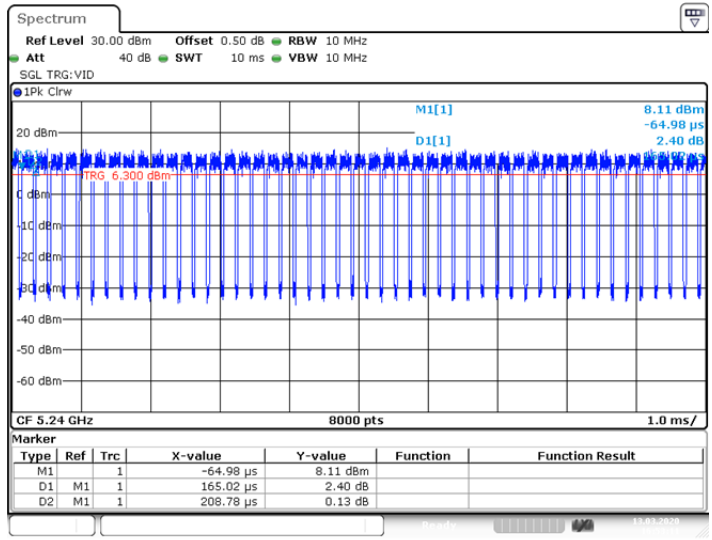
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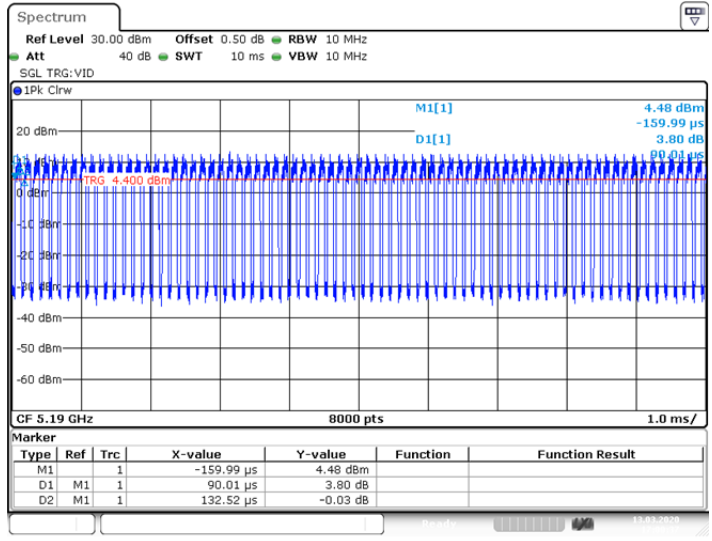
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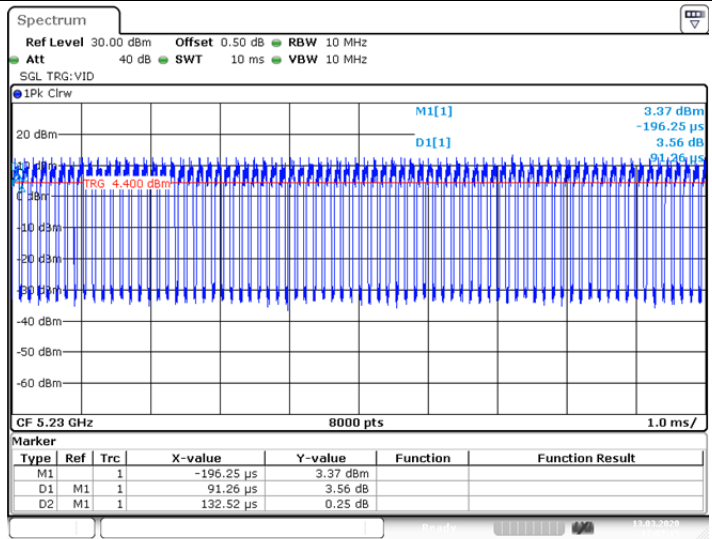
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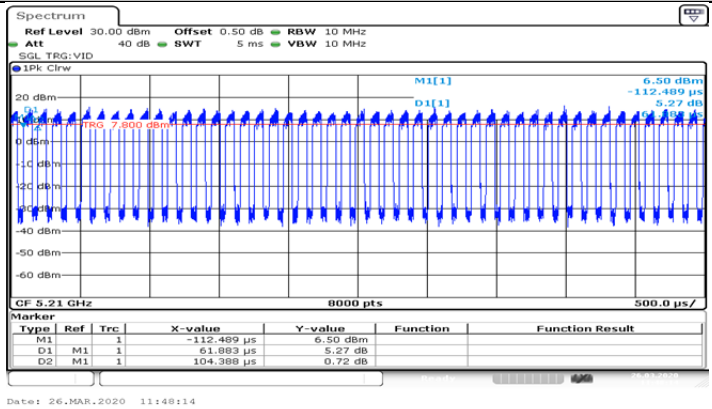


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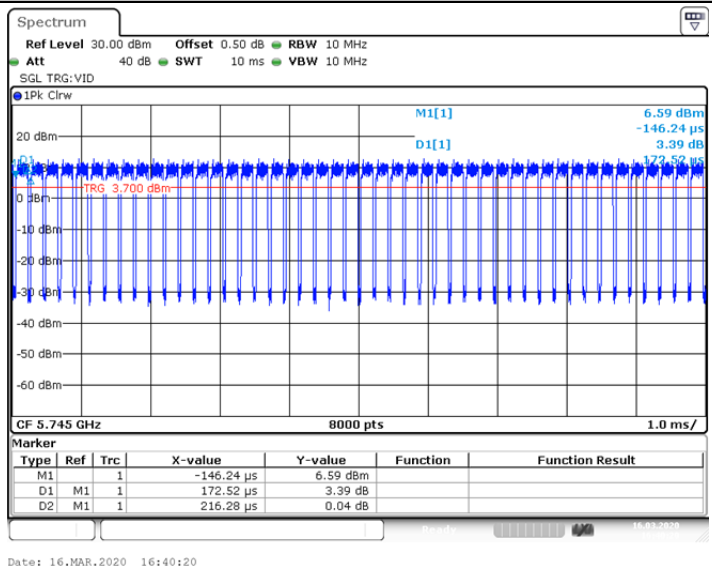
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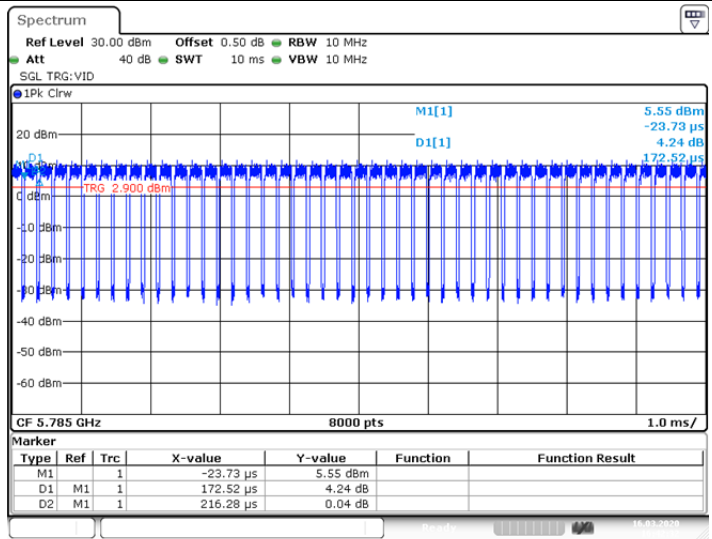
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11A_Ant1_5745

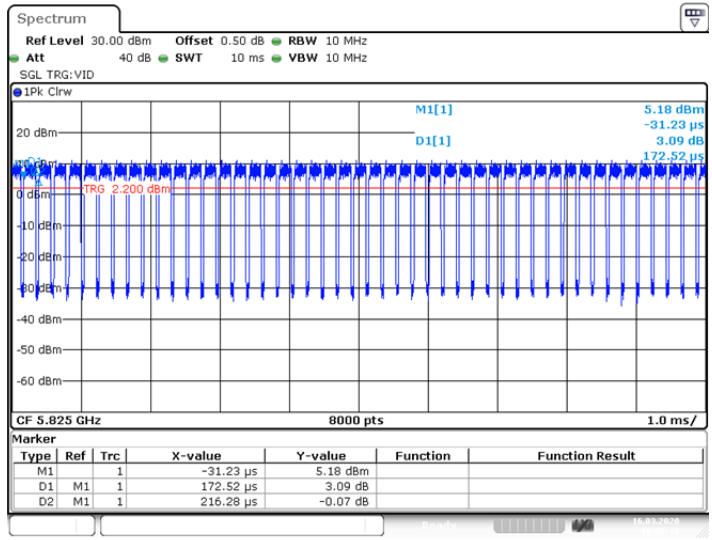


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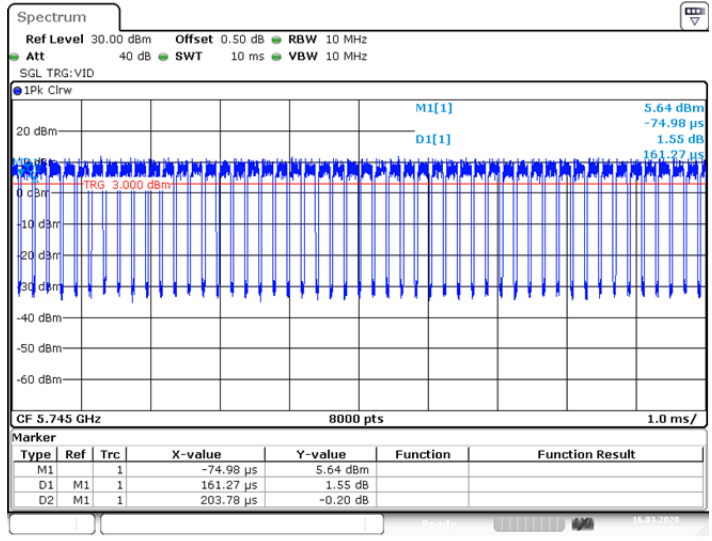
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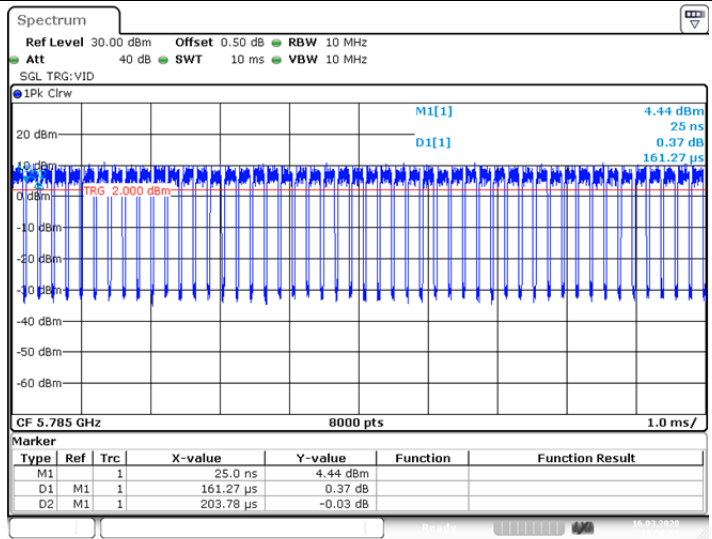
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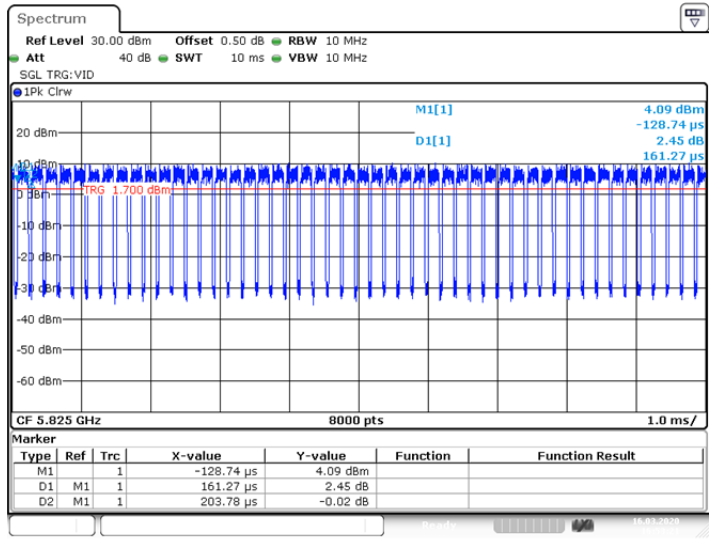
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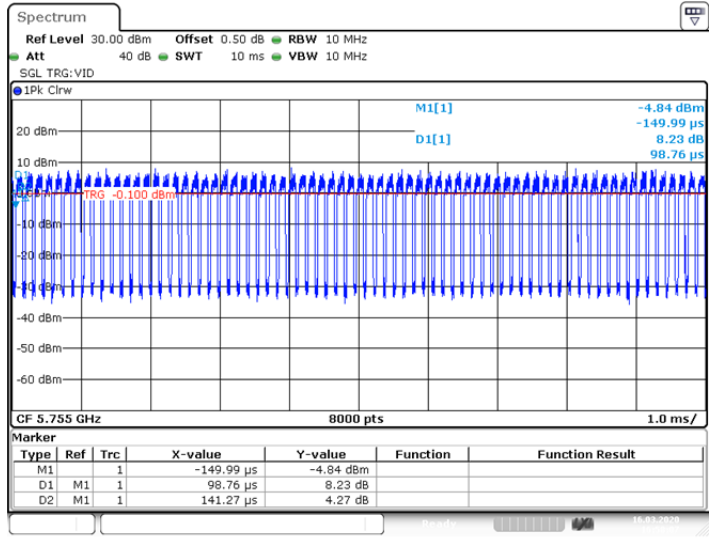
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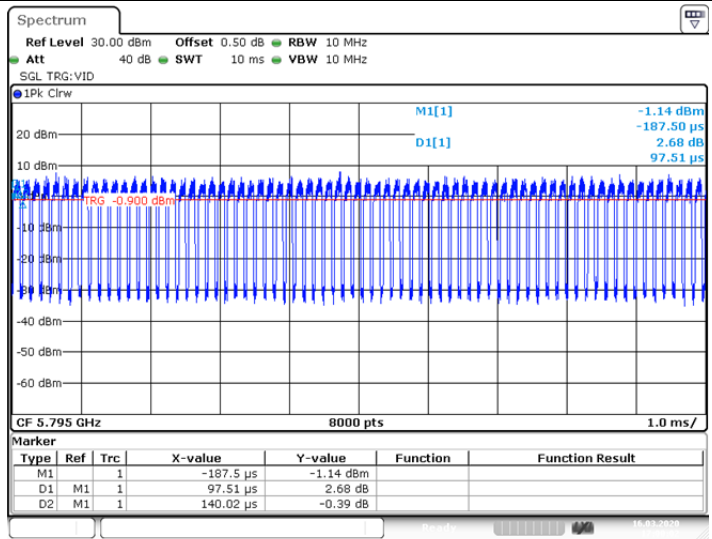
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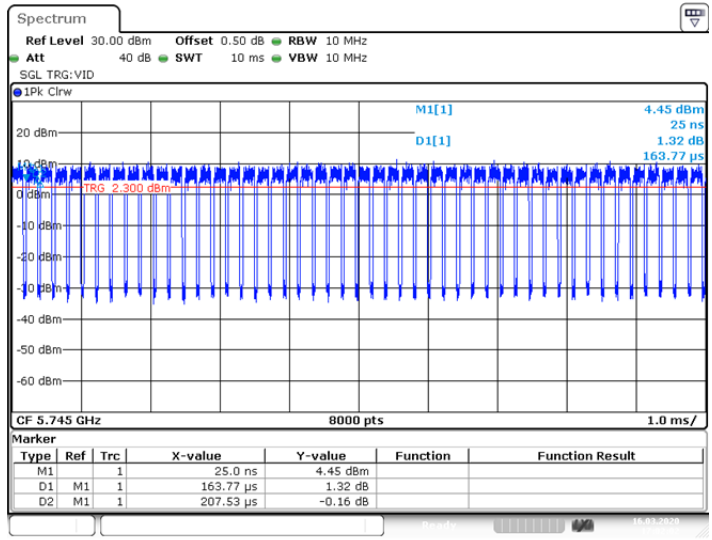
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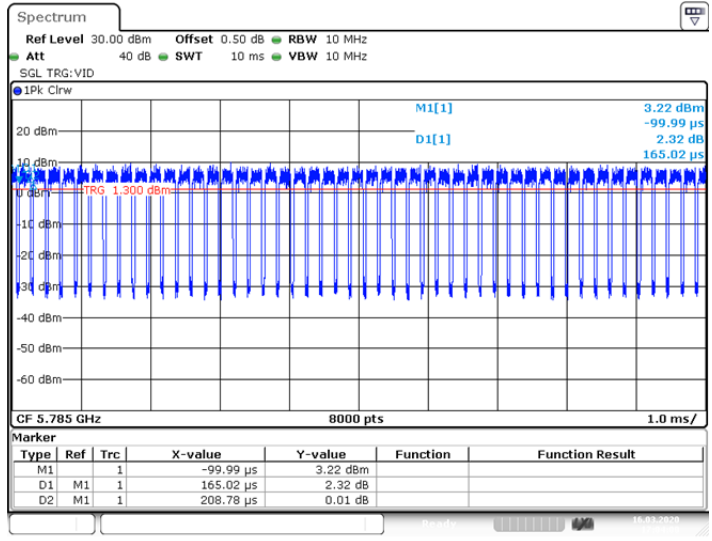
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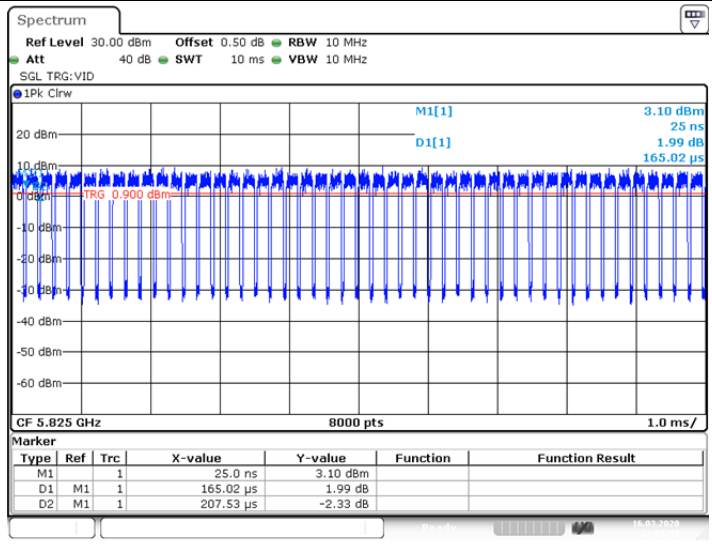
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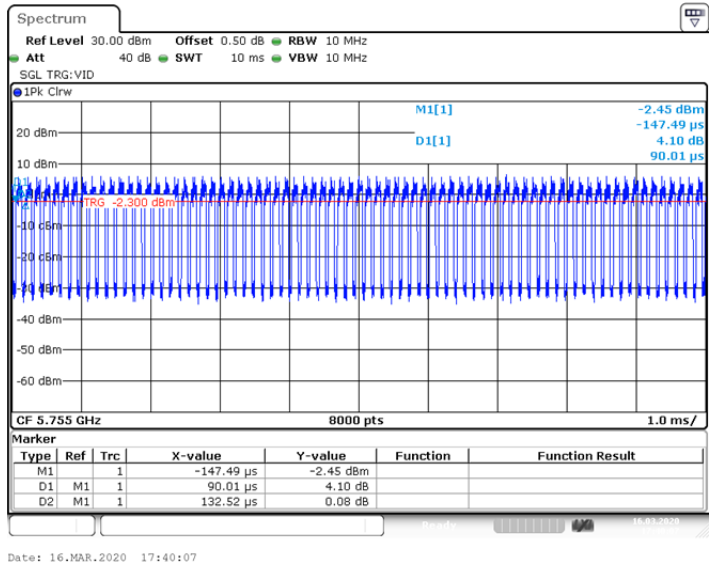


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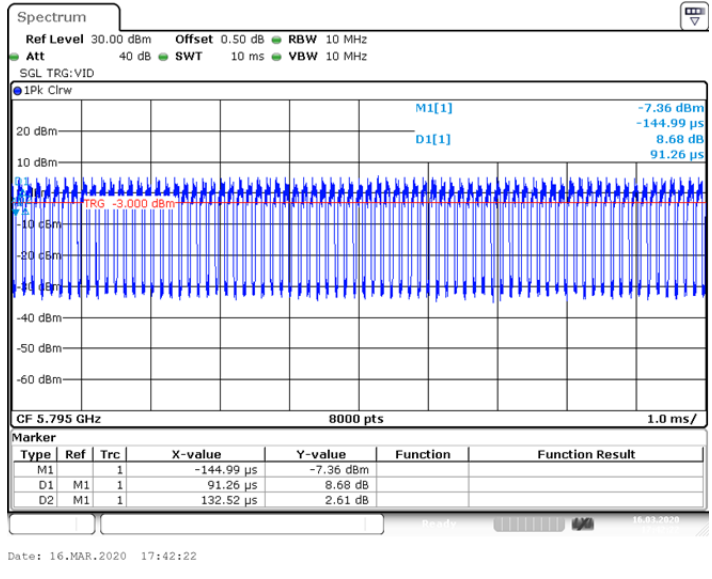
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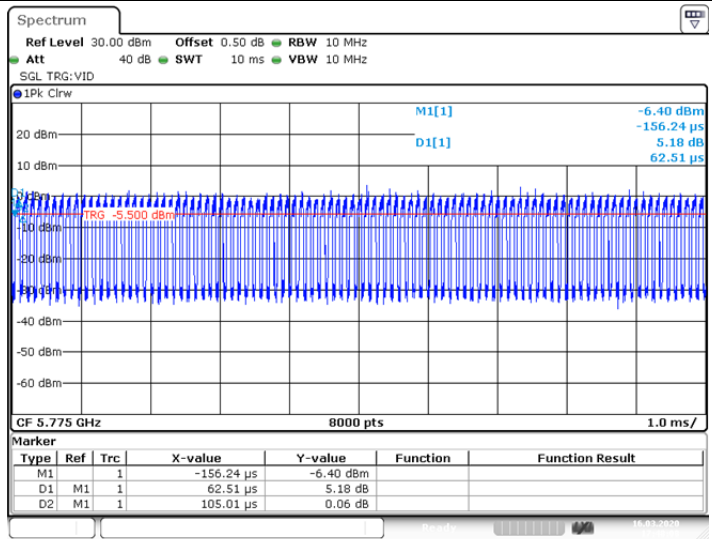
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11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775



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