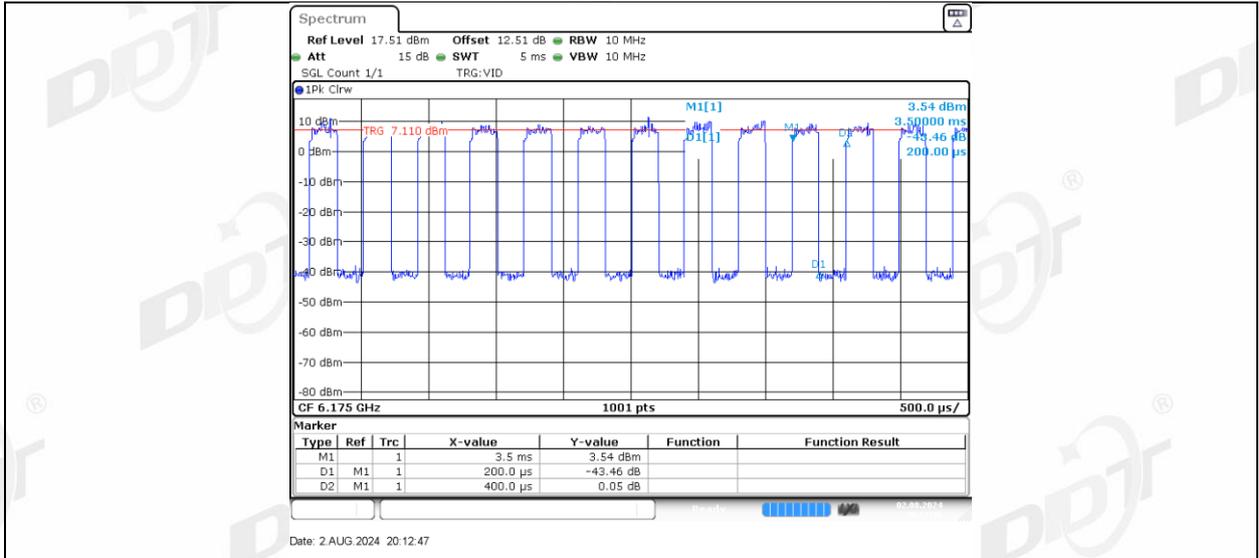
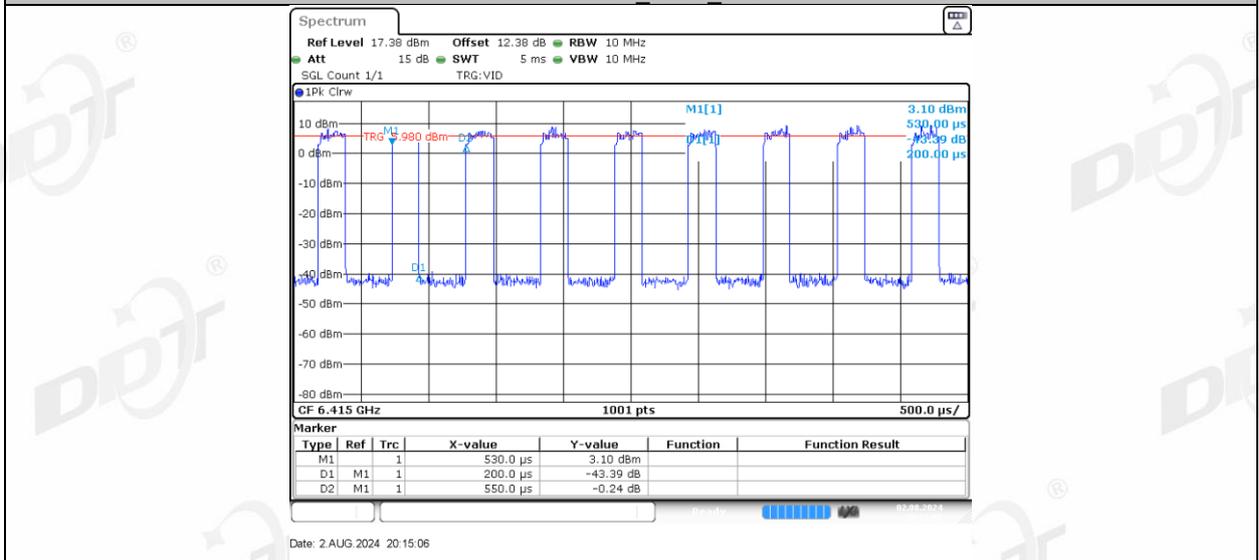


6.5. Test Graphs

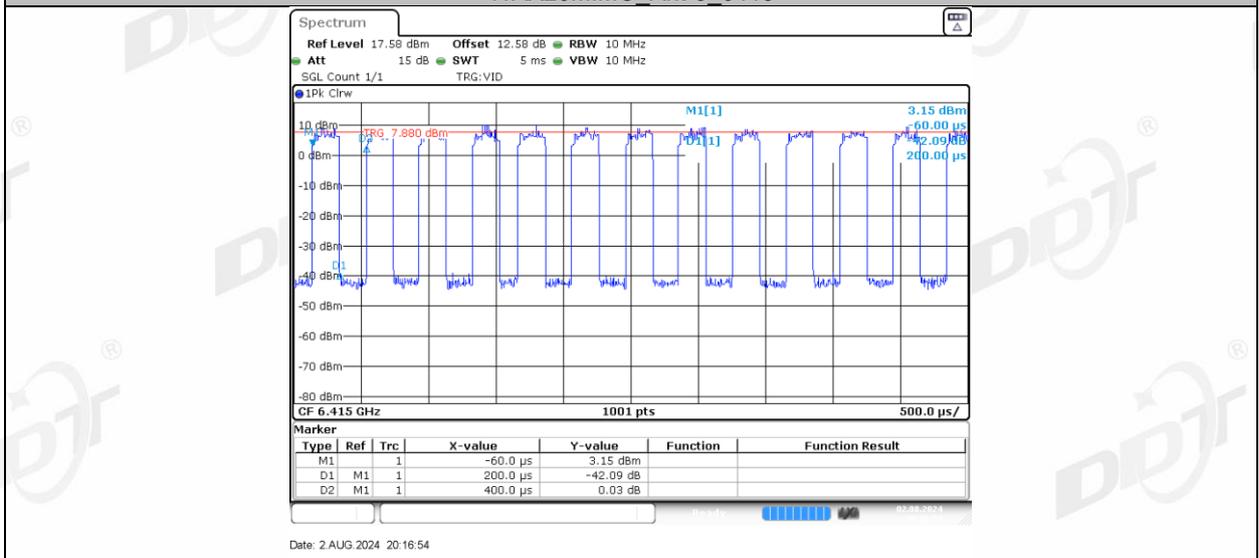




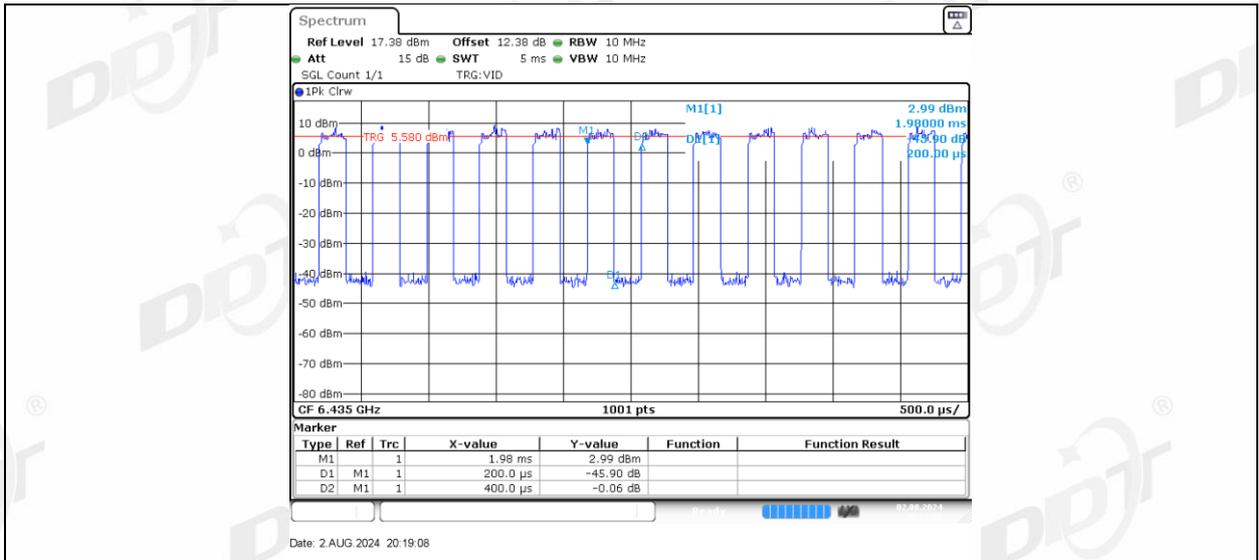
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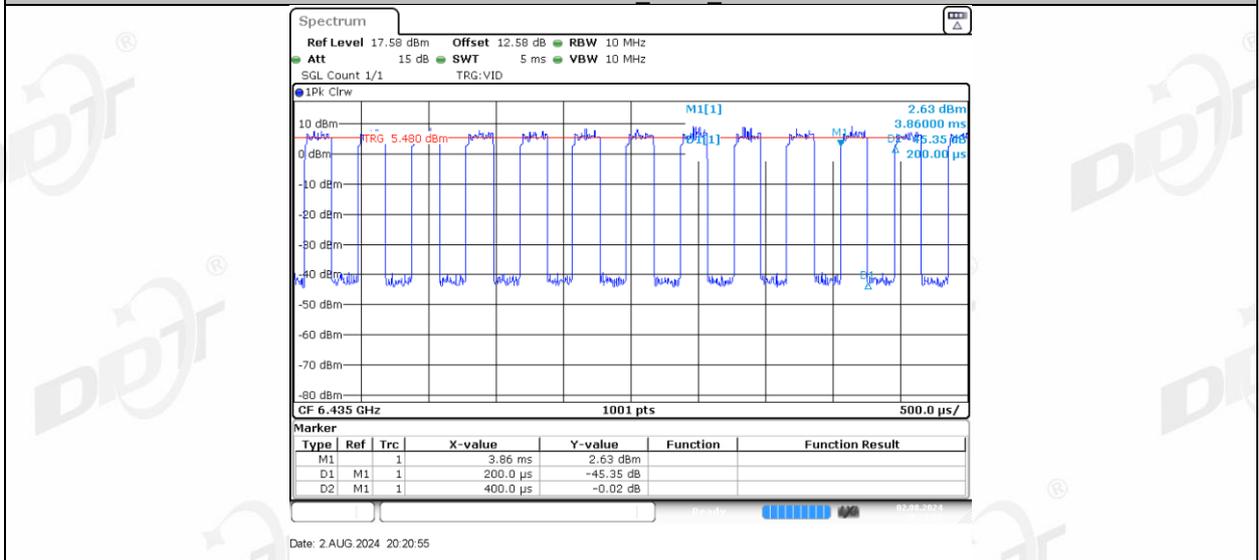
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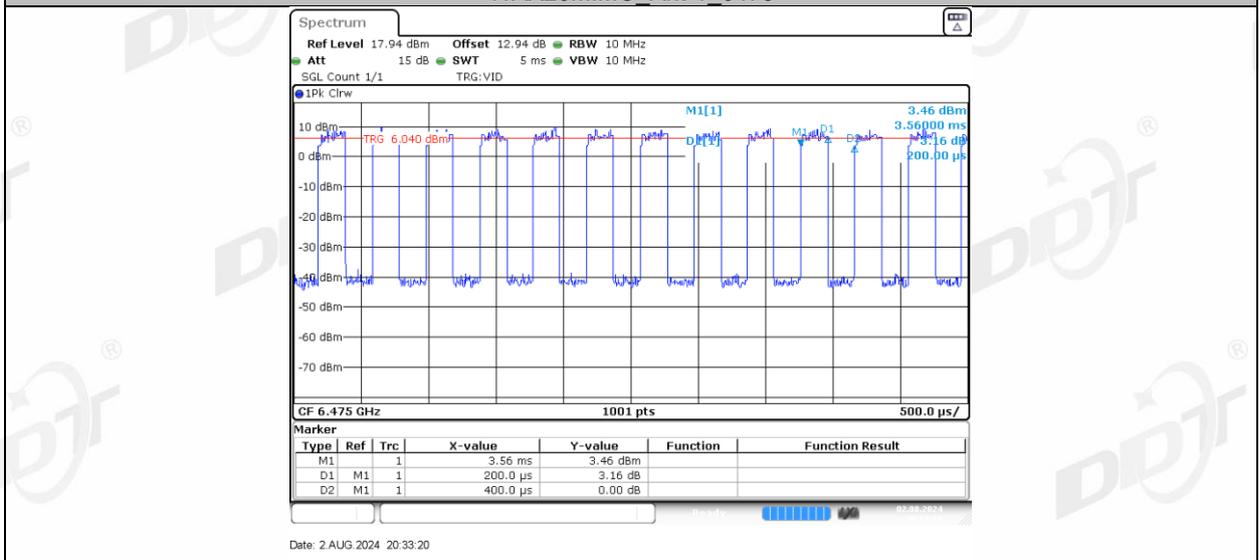
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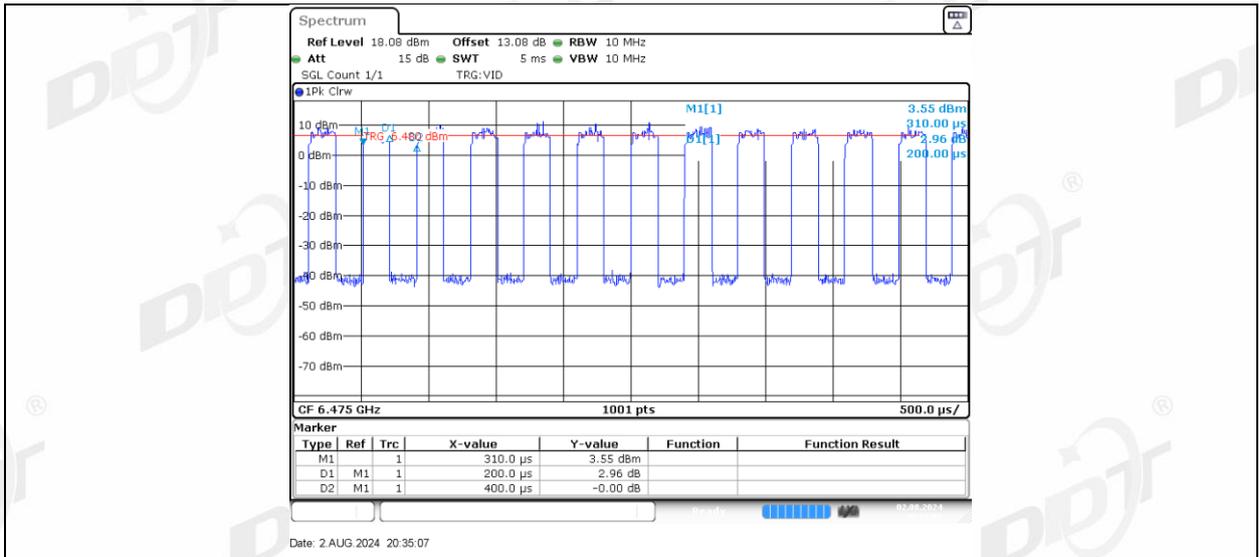
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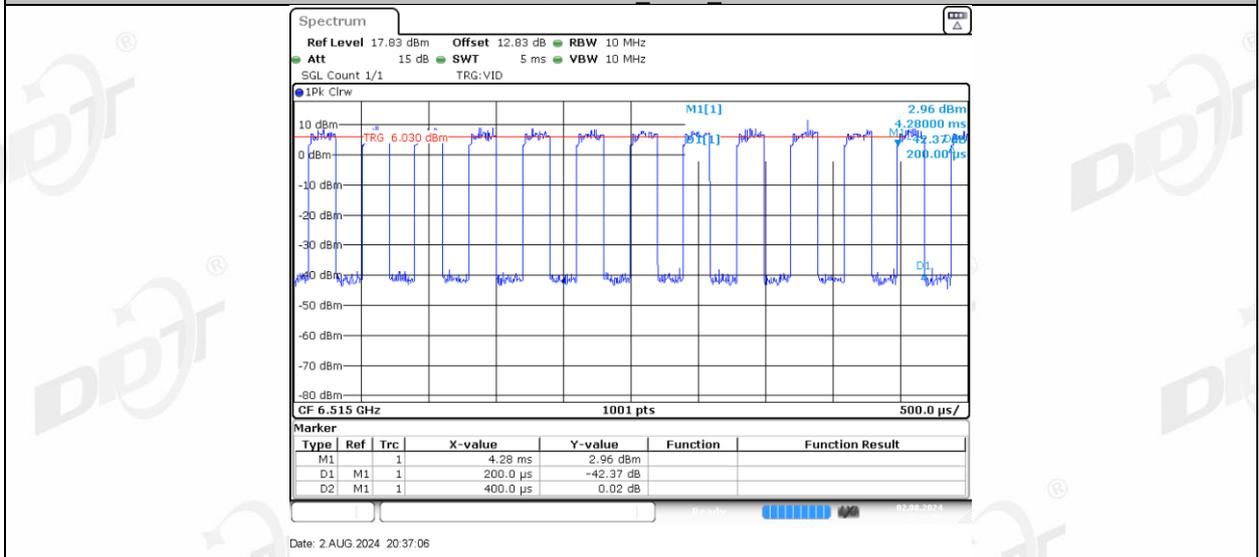
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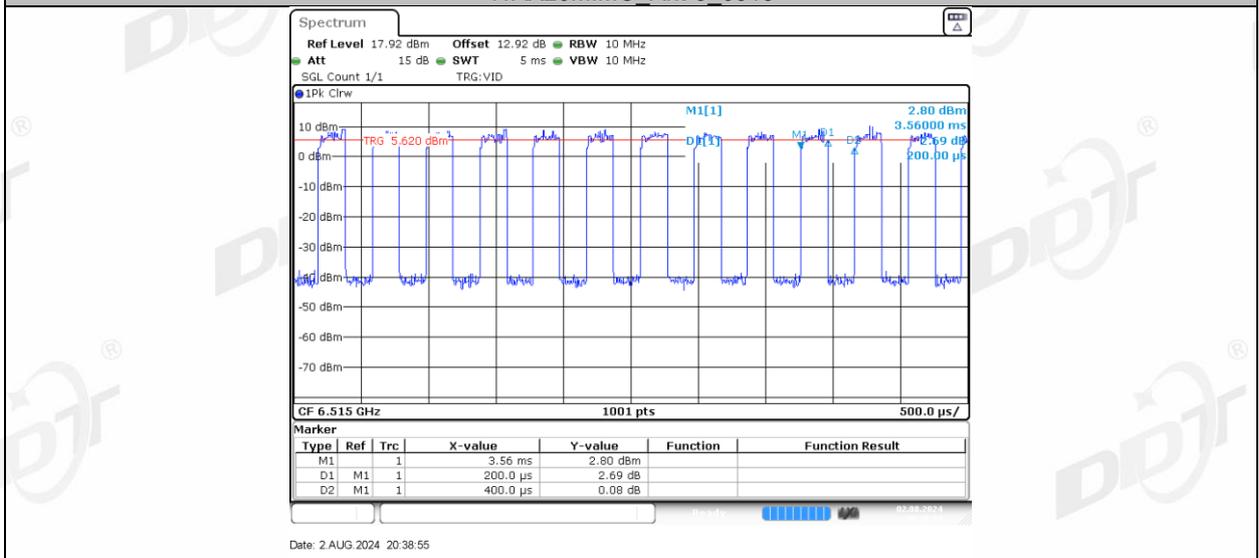
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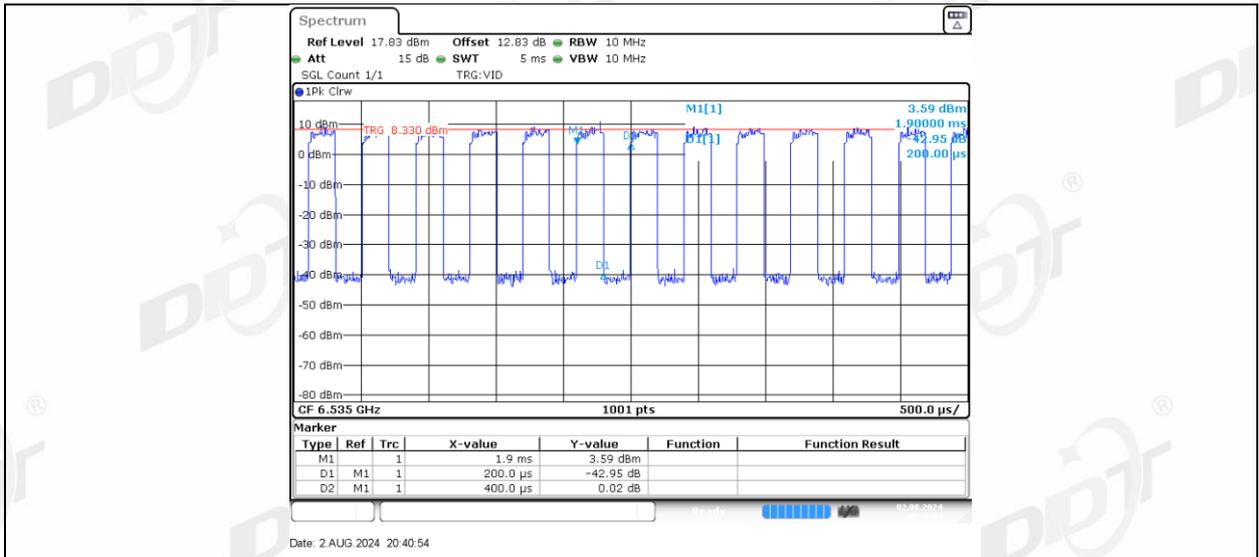
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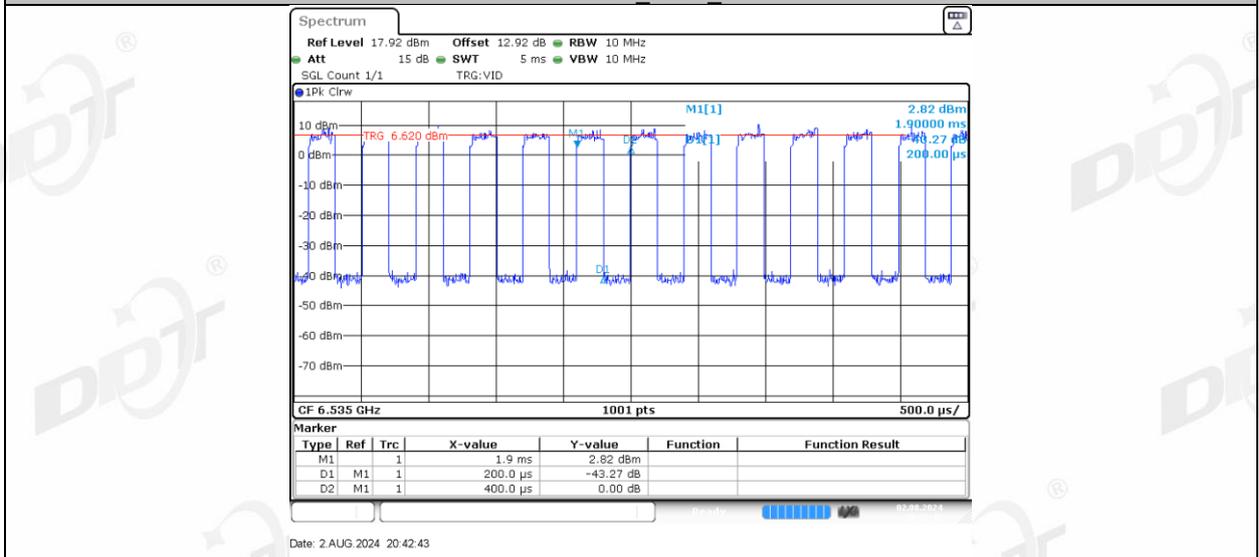
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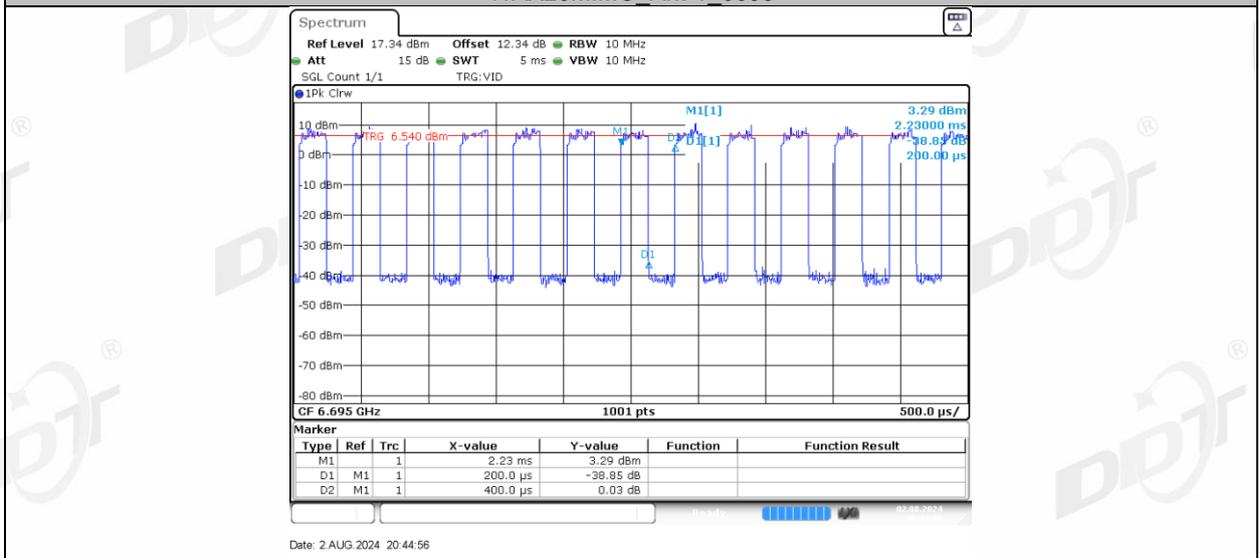
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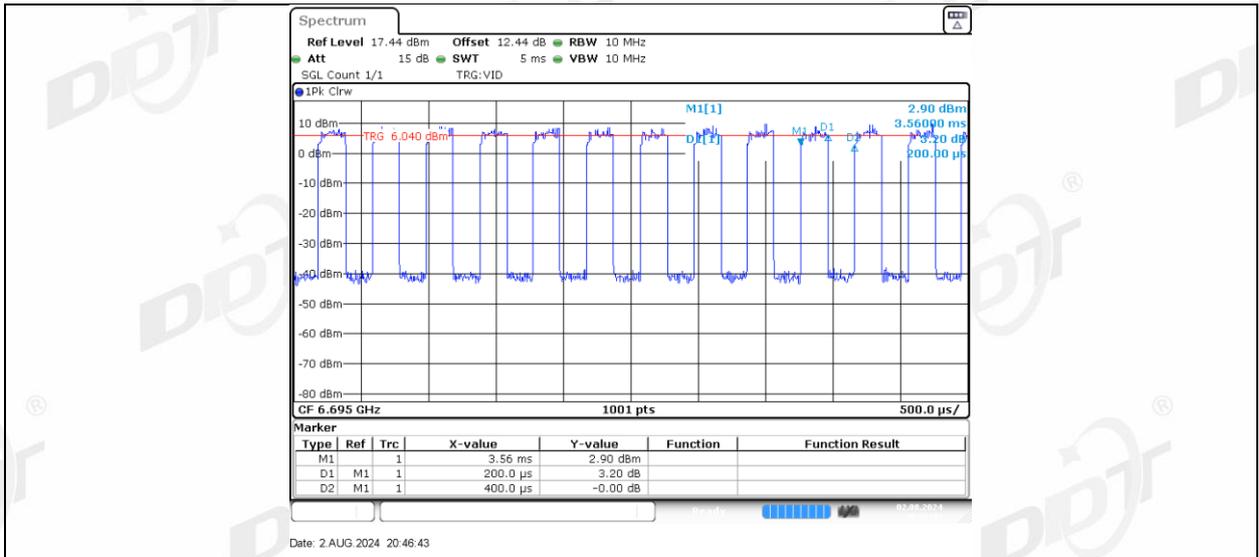
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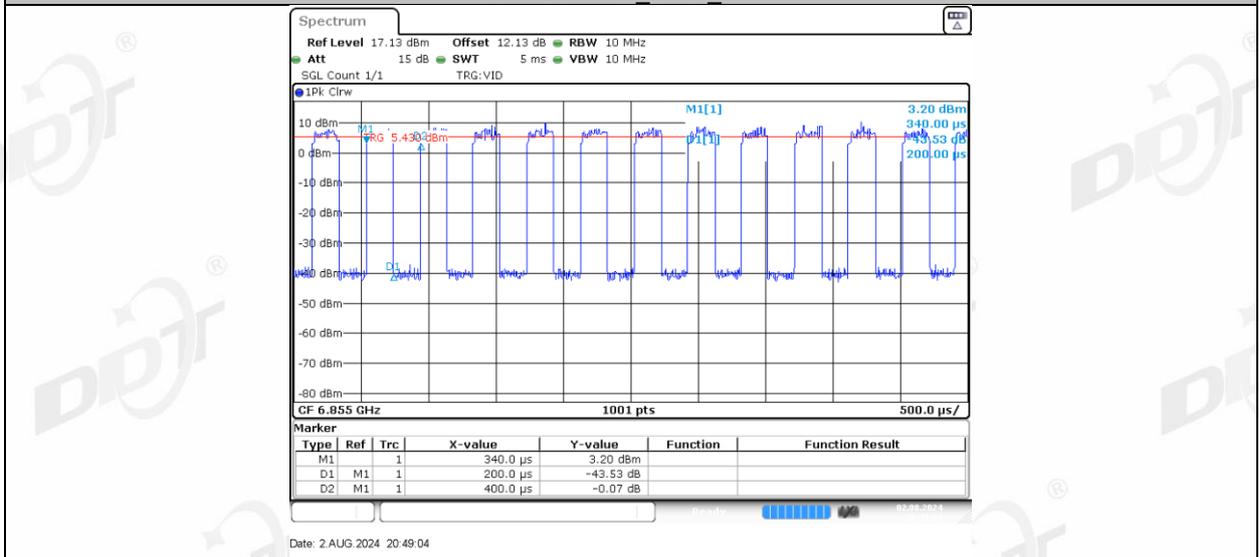
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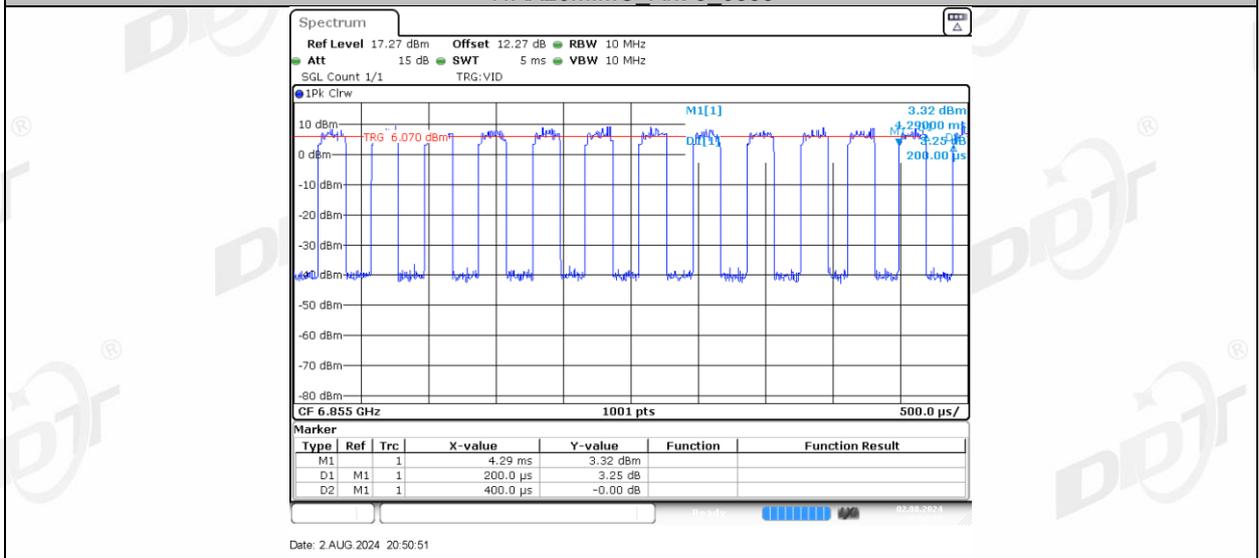
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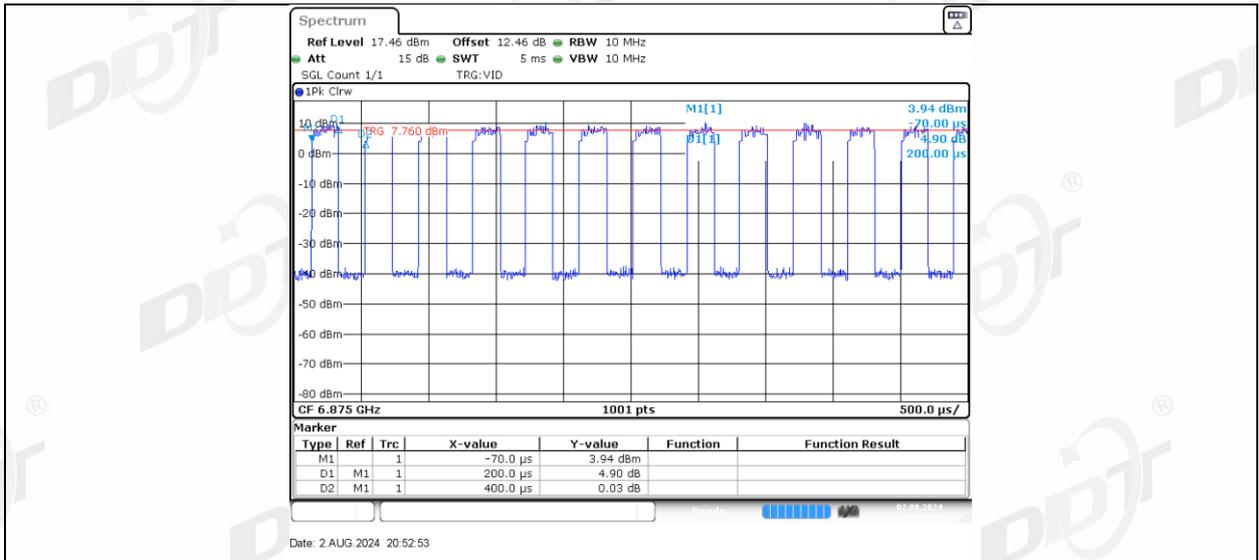
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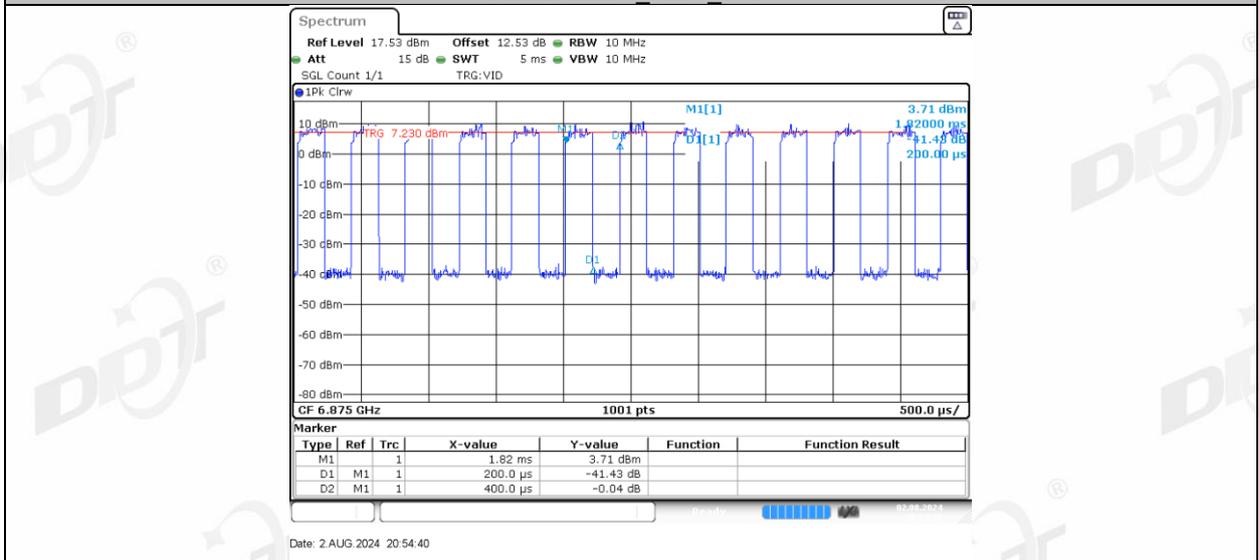
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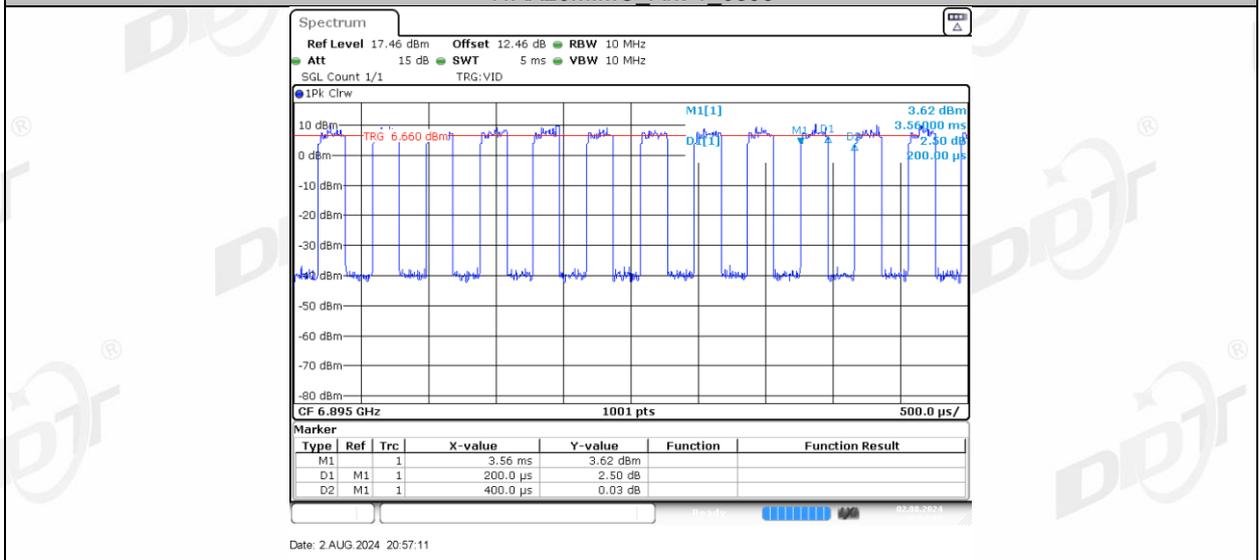
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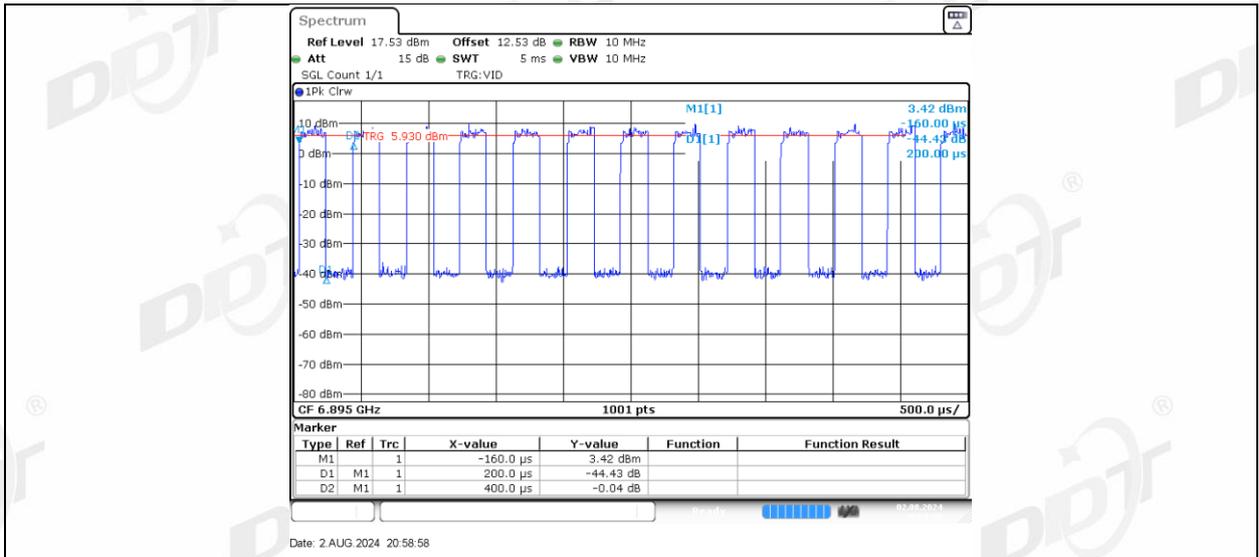
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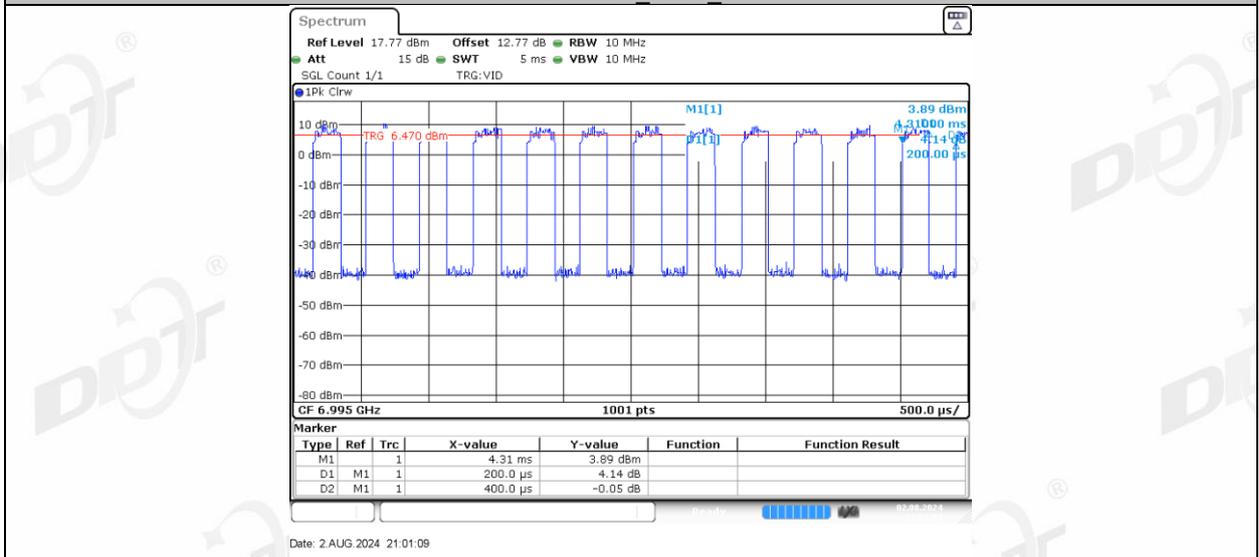
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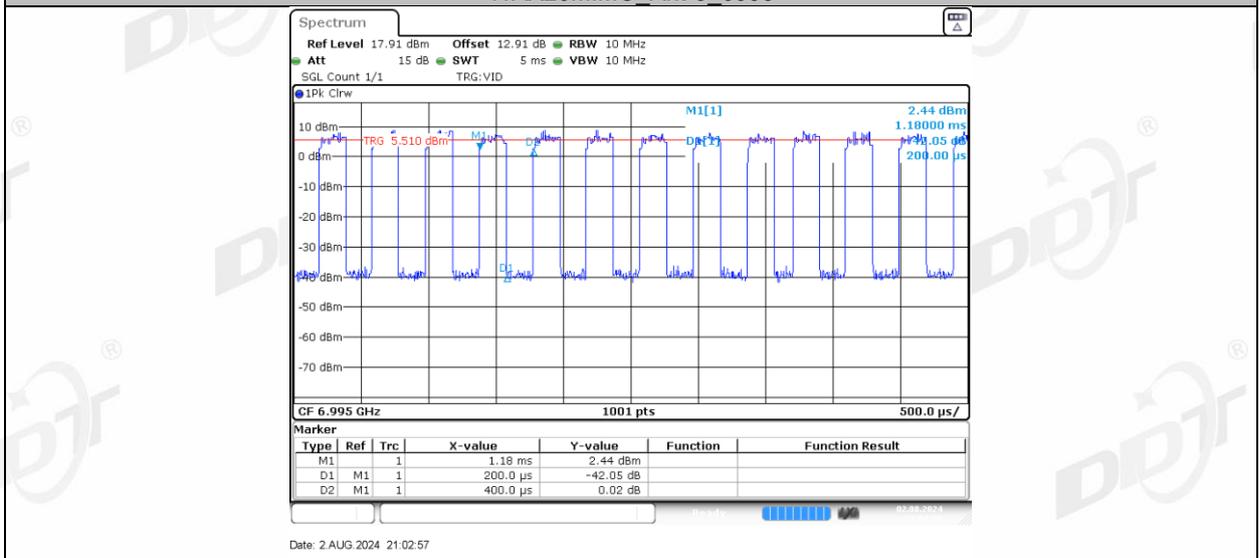
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11AX20MIMO Ant-1_6995



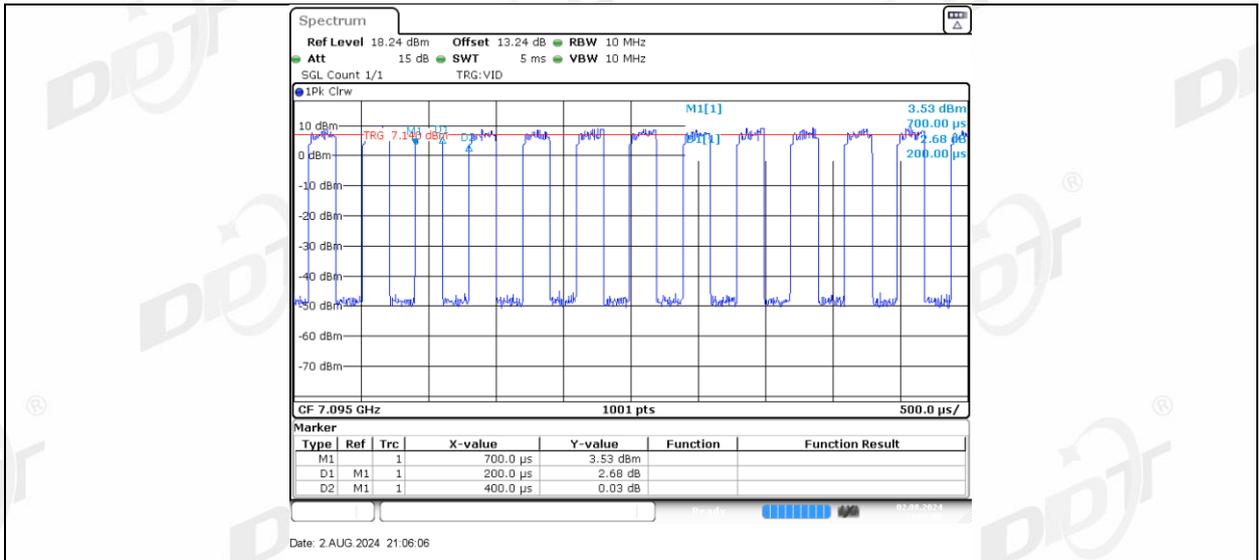
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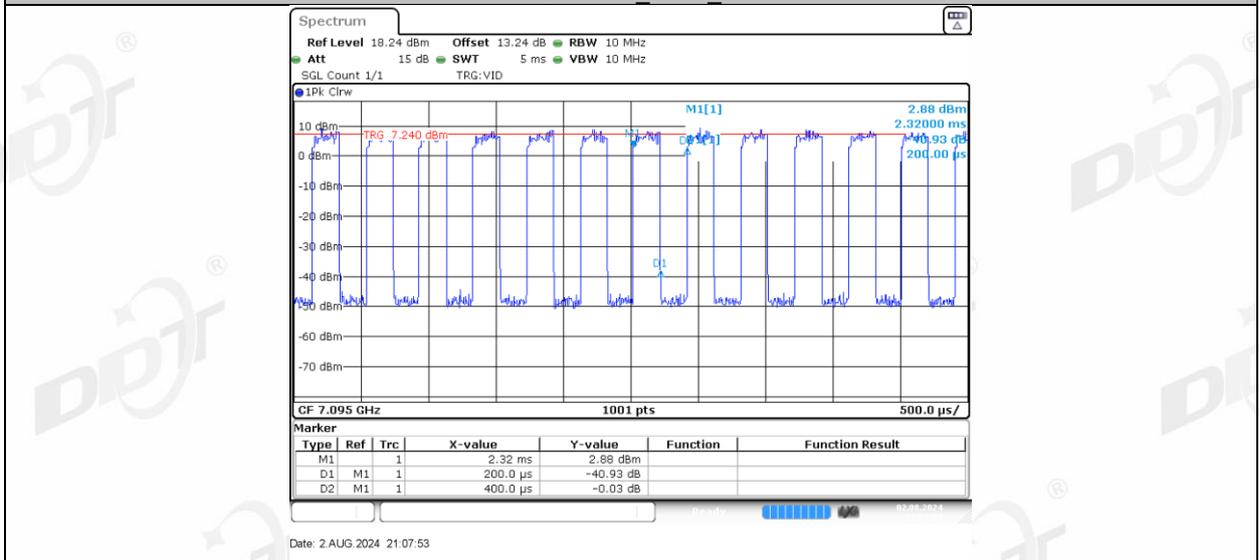
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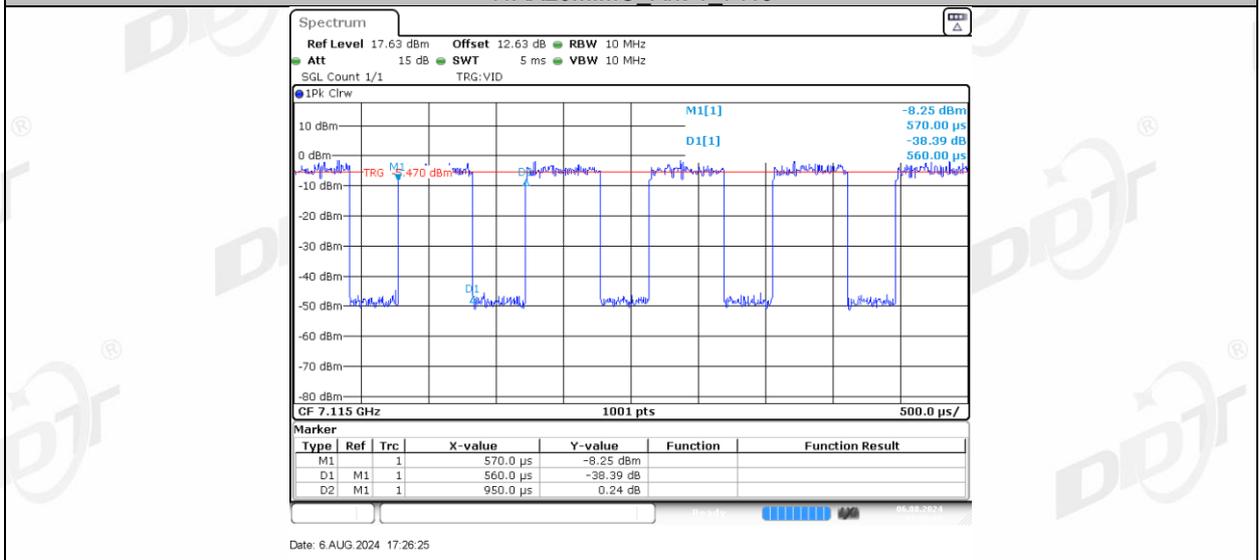
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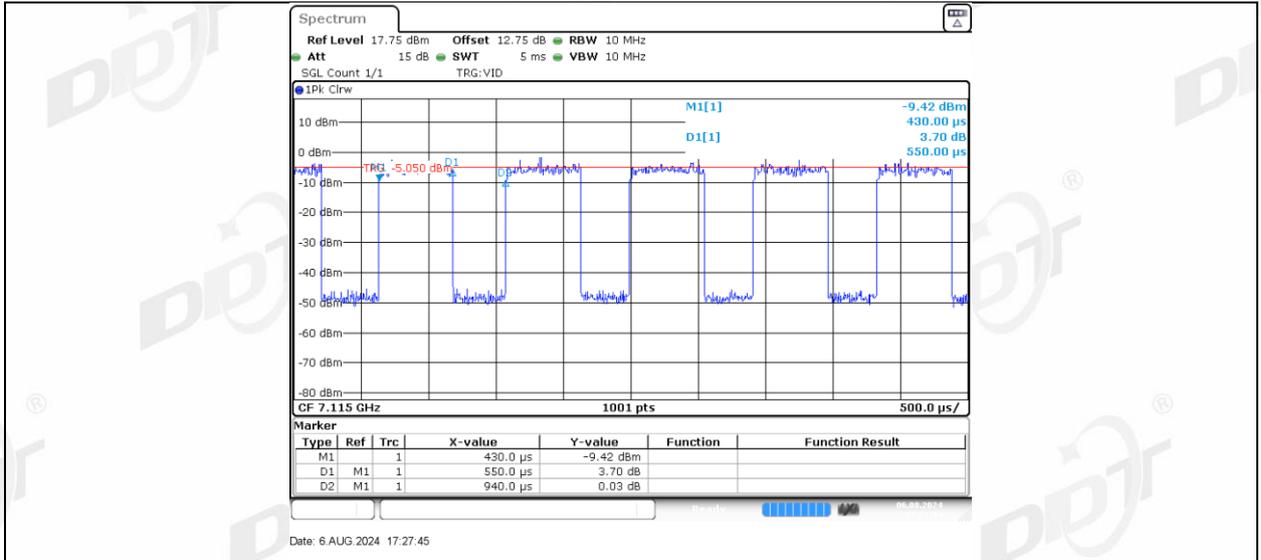
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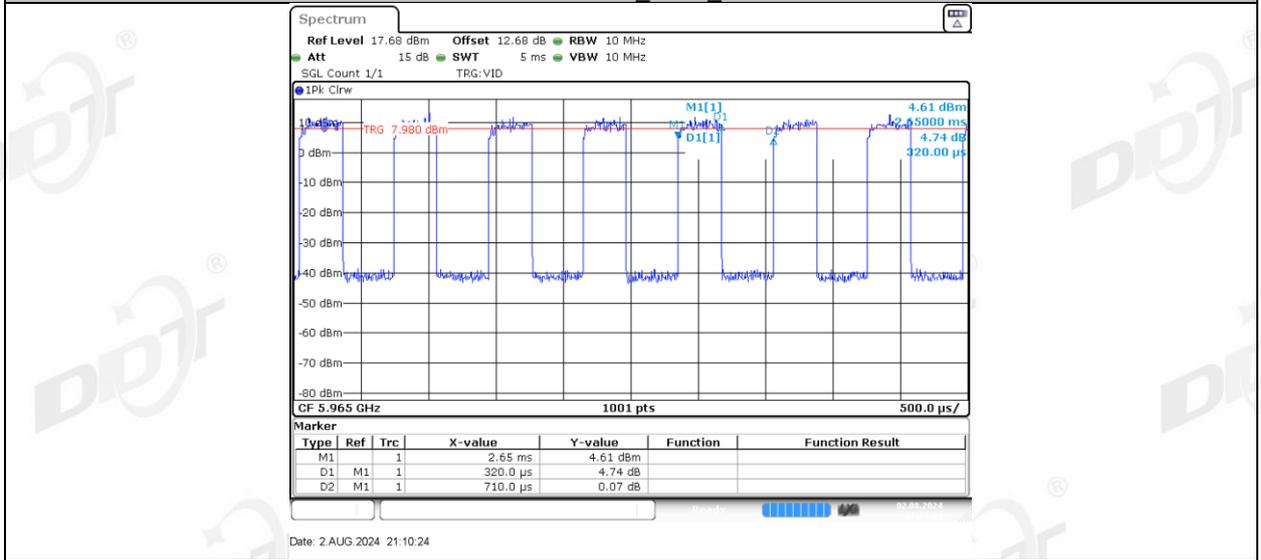
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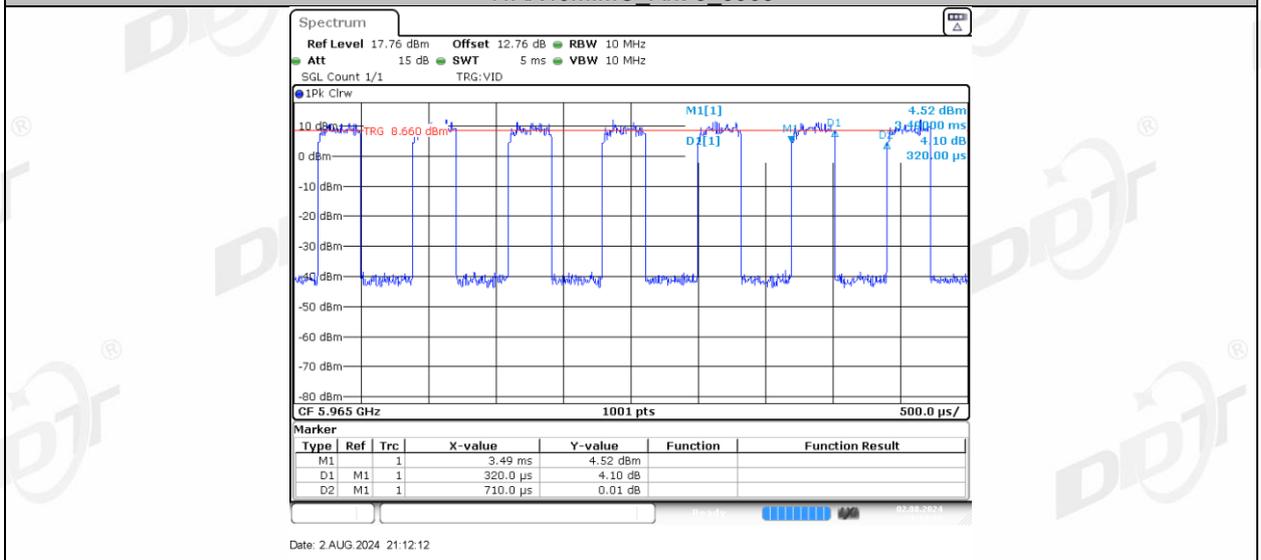
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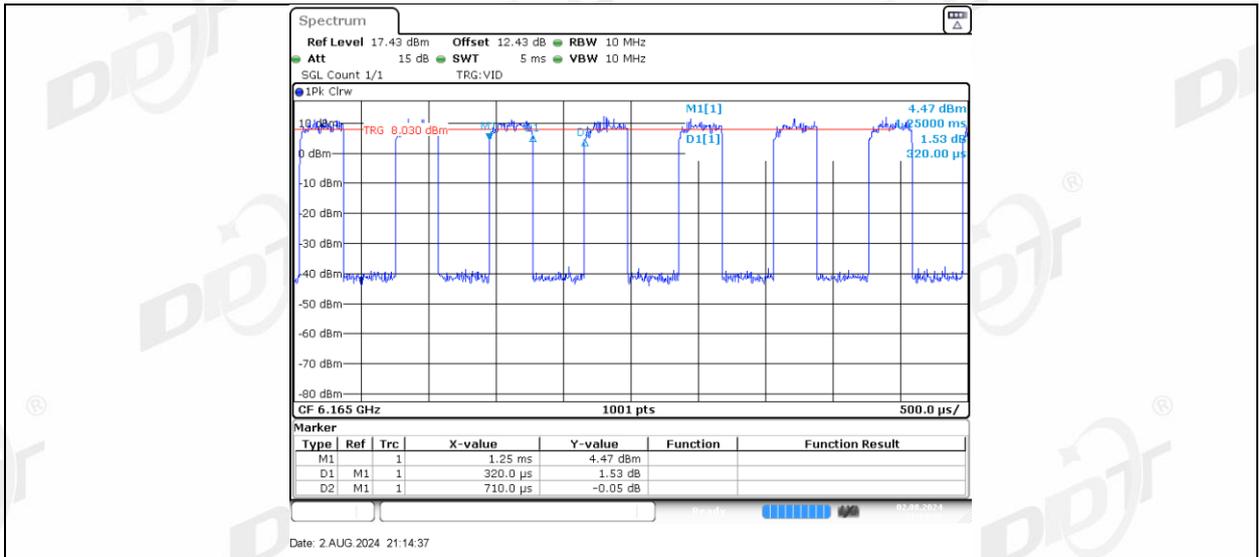
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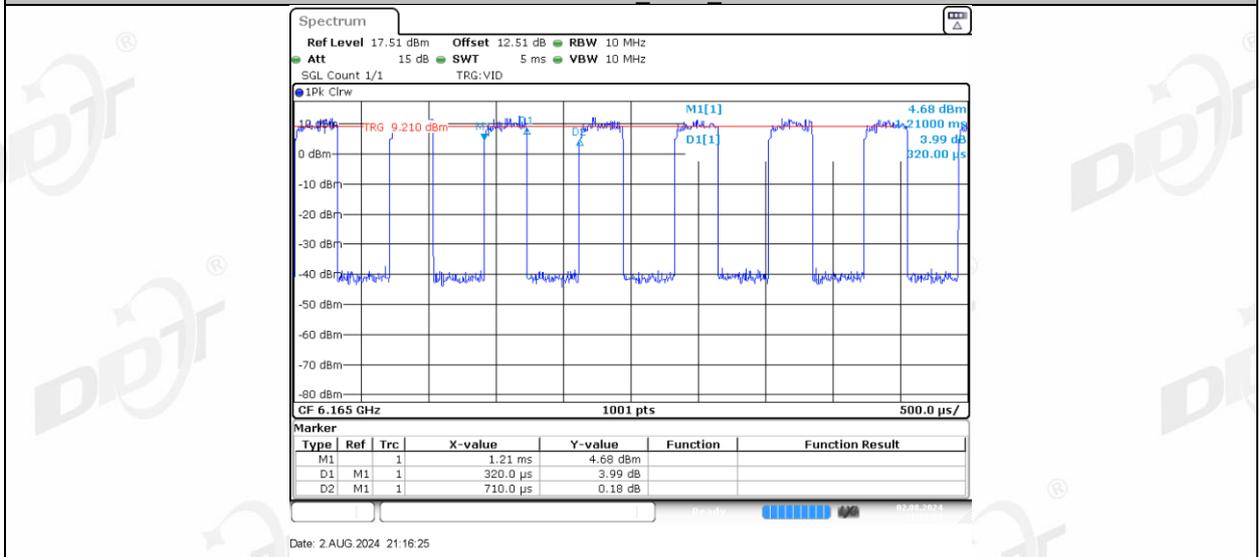
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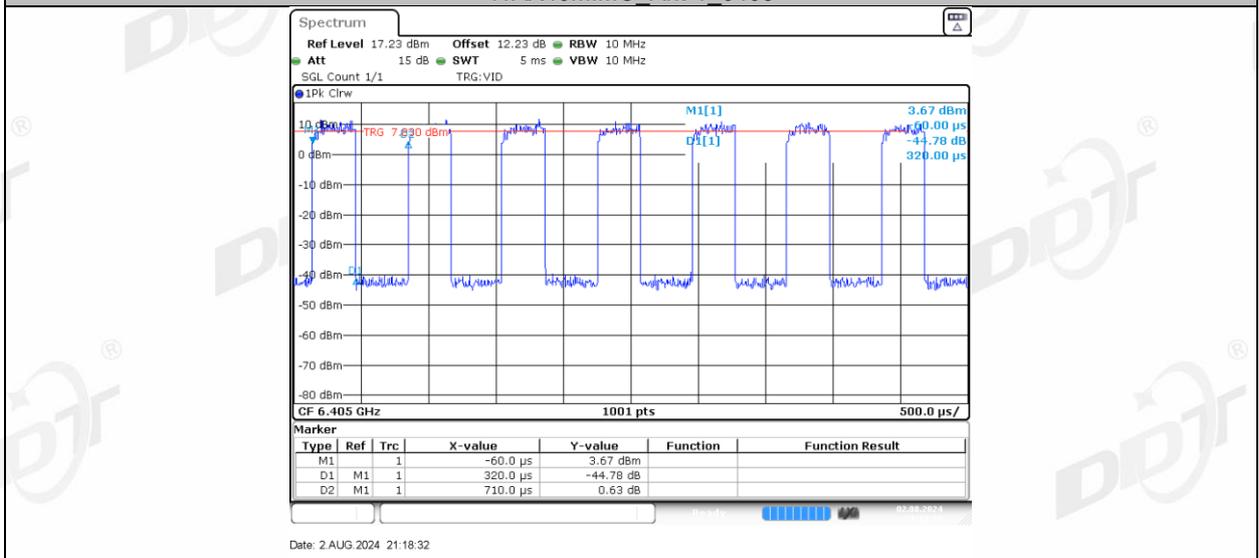
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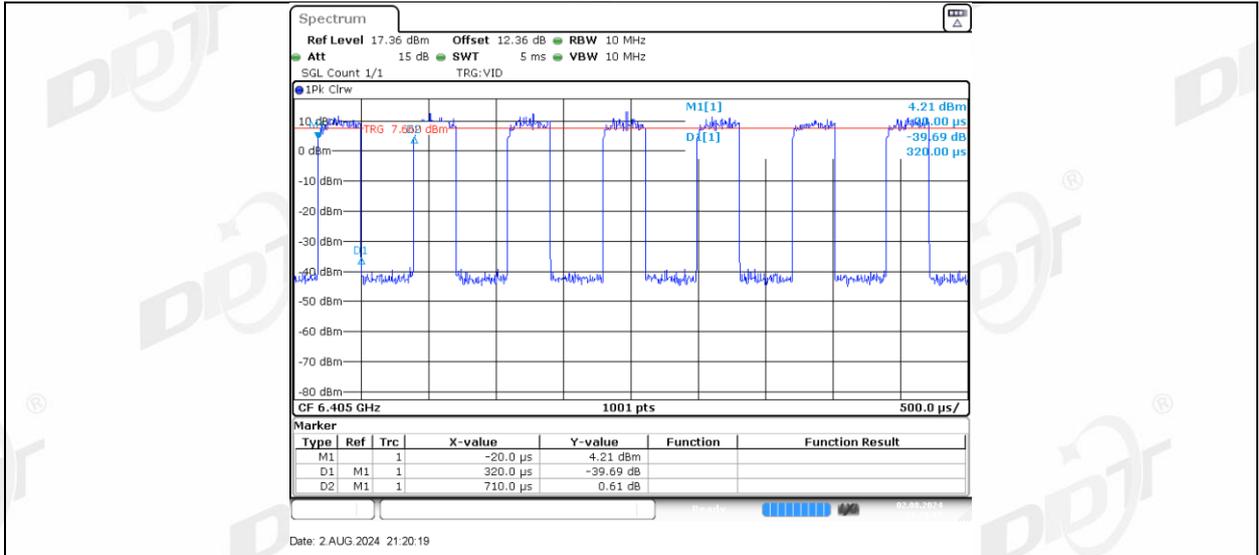
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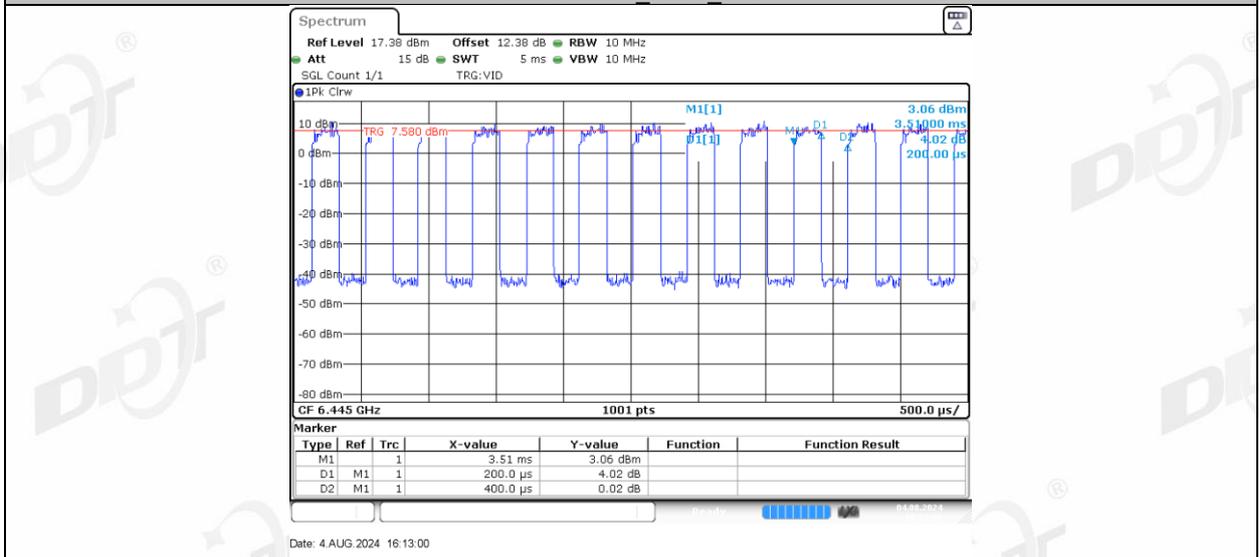
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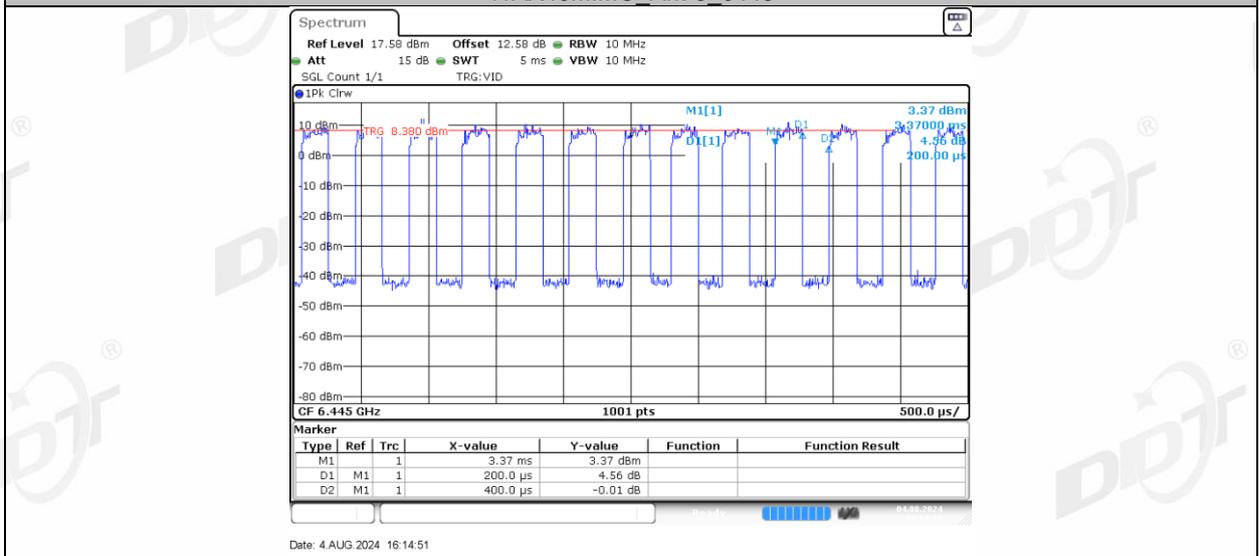
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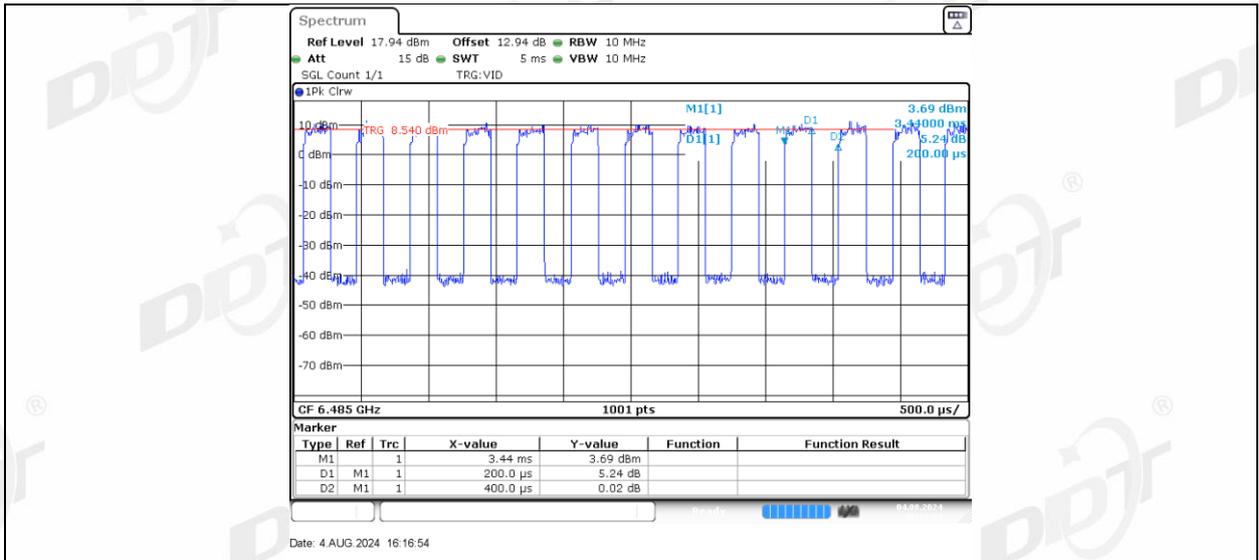
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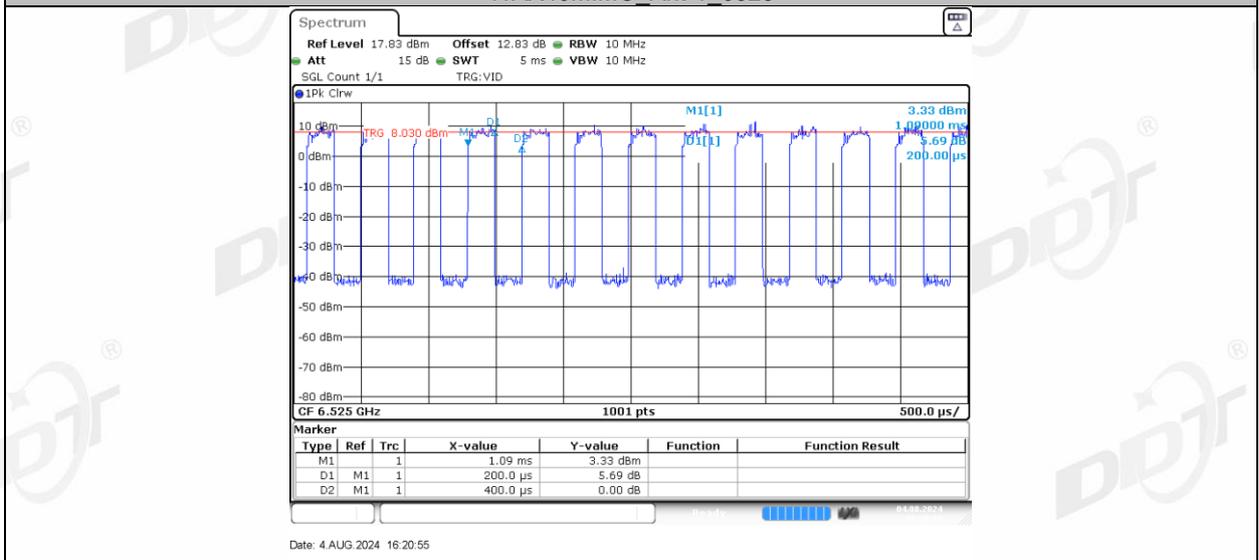
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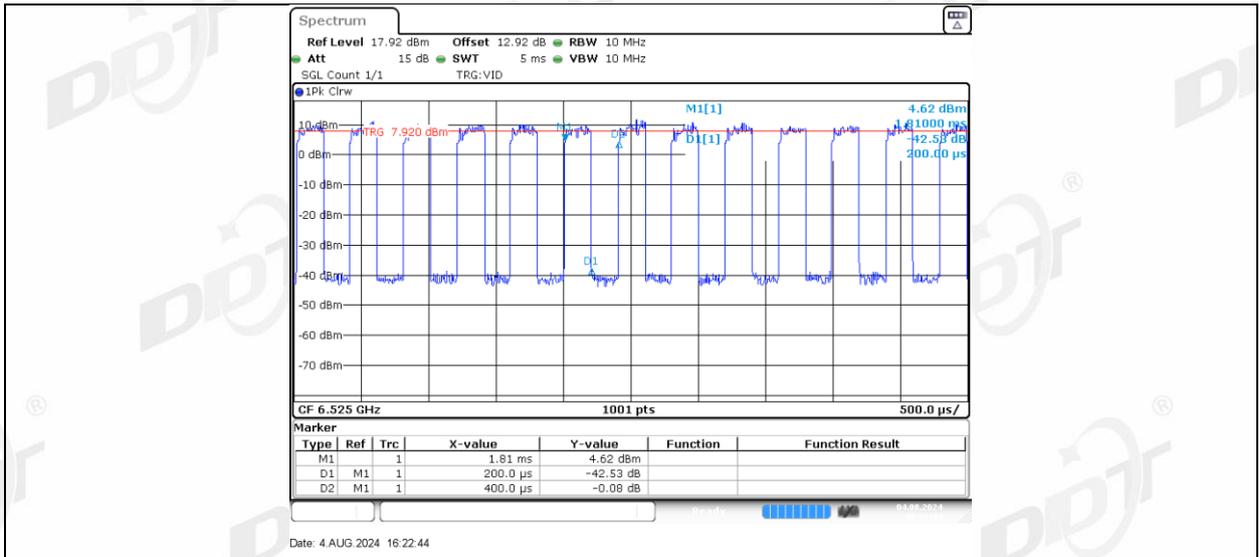
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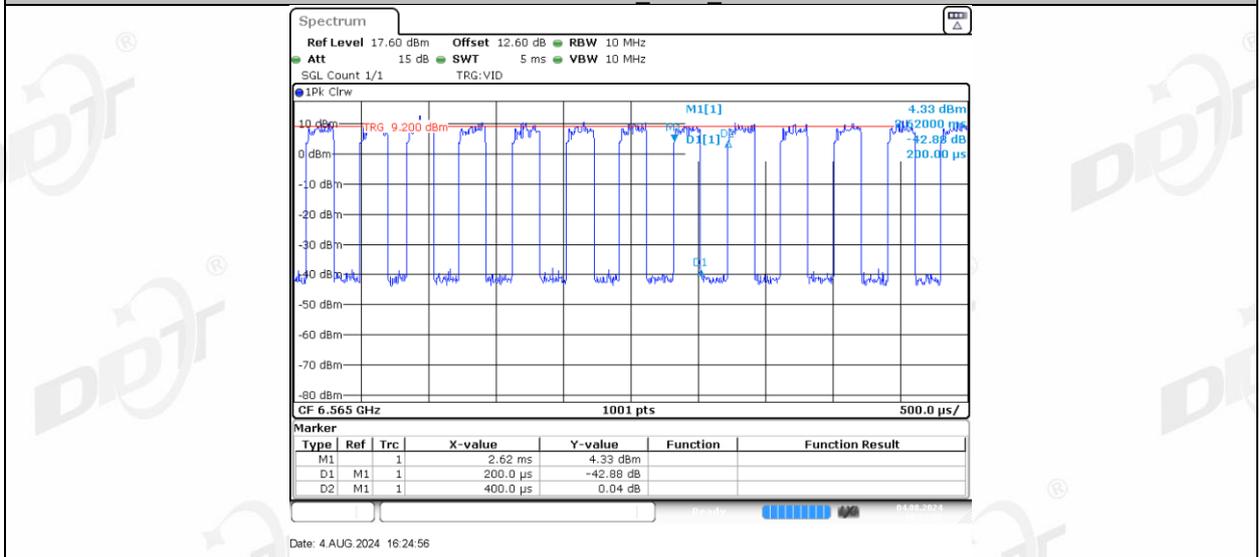
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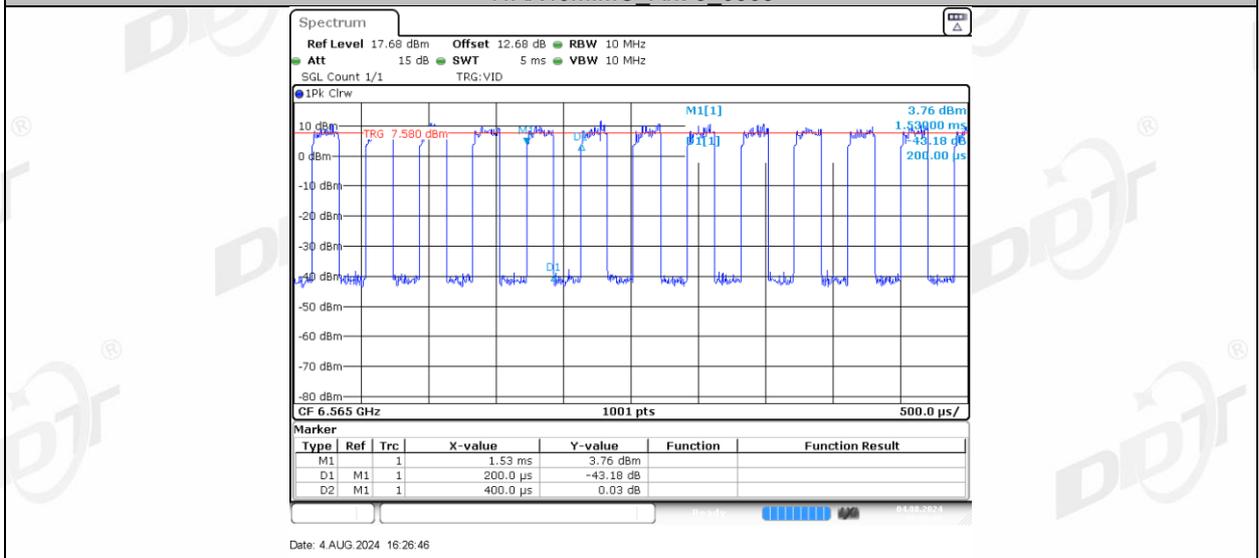
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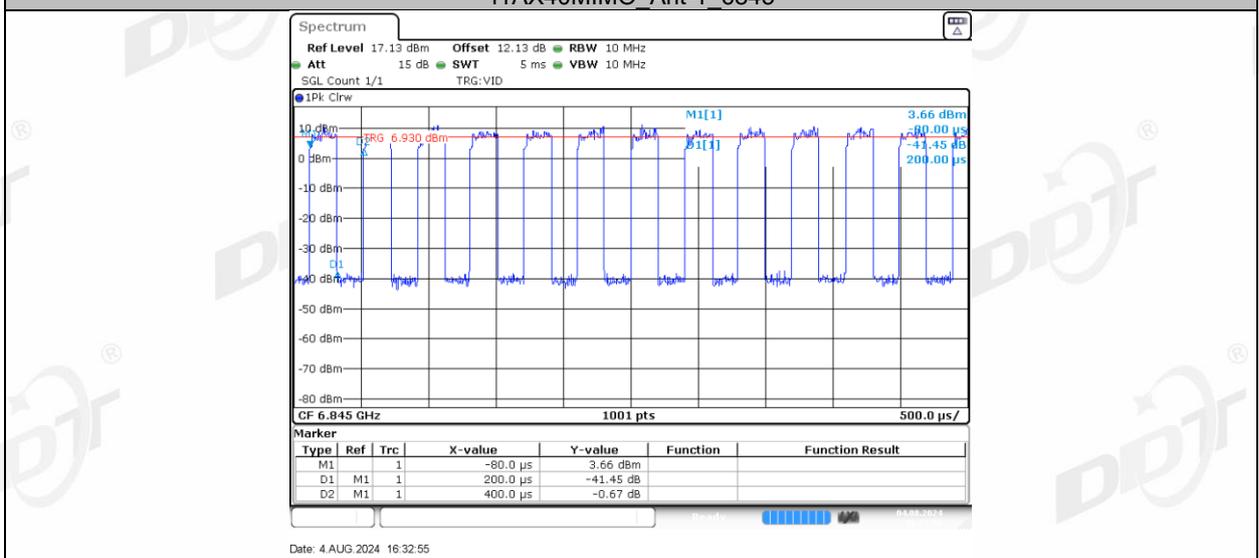
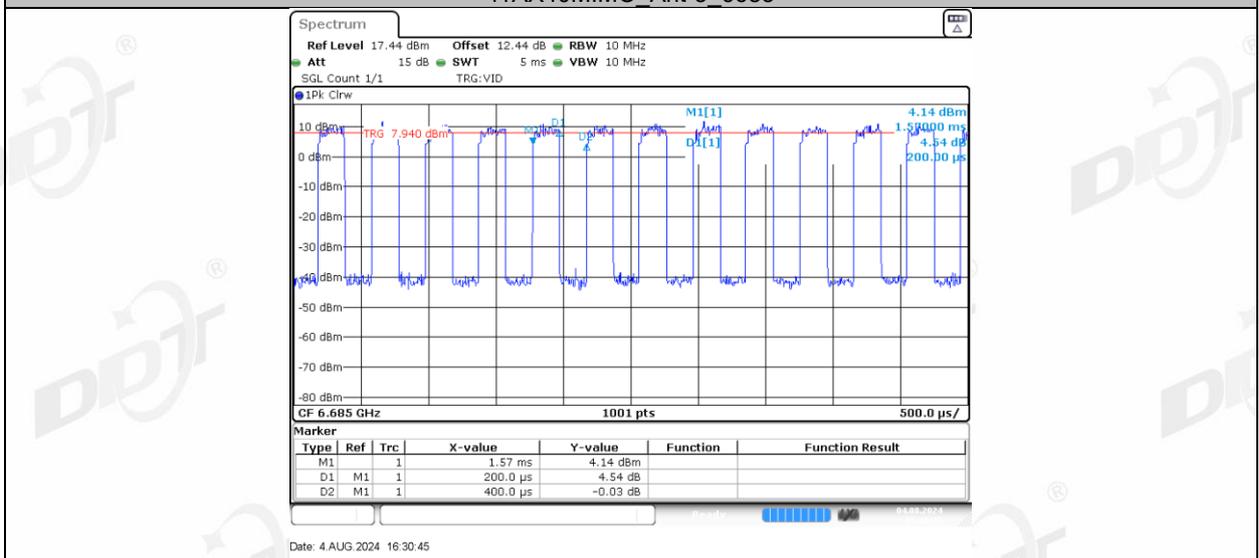
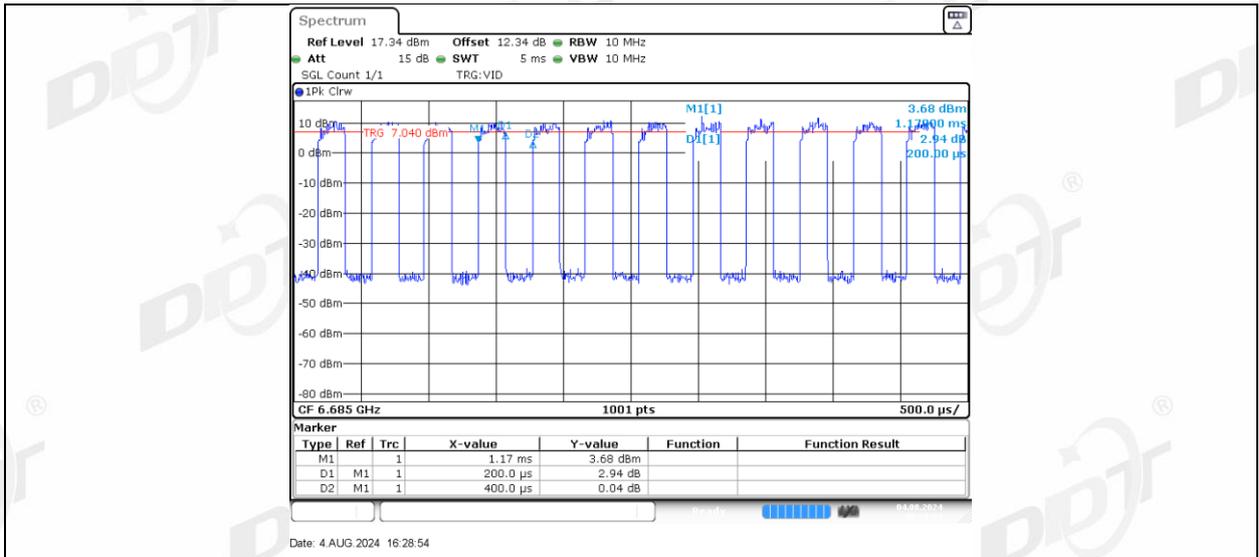
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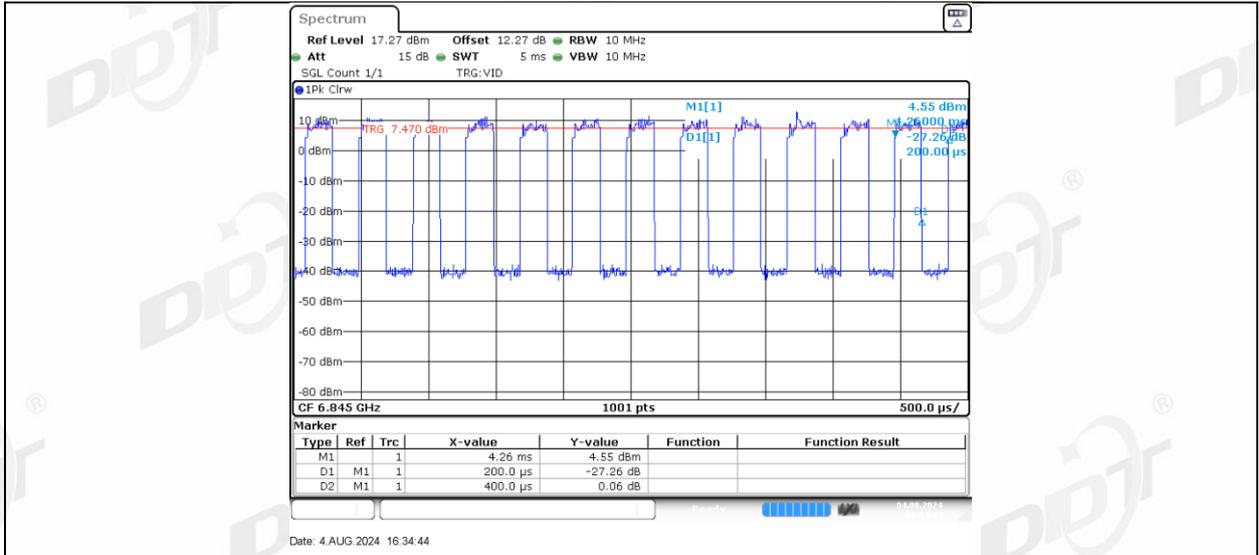
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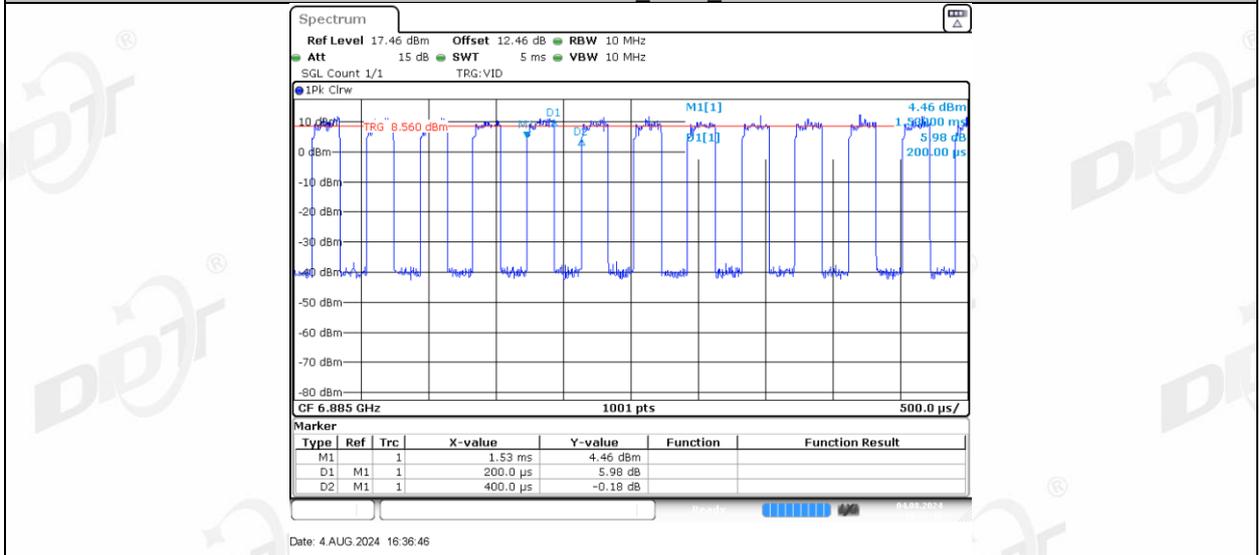
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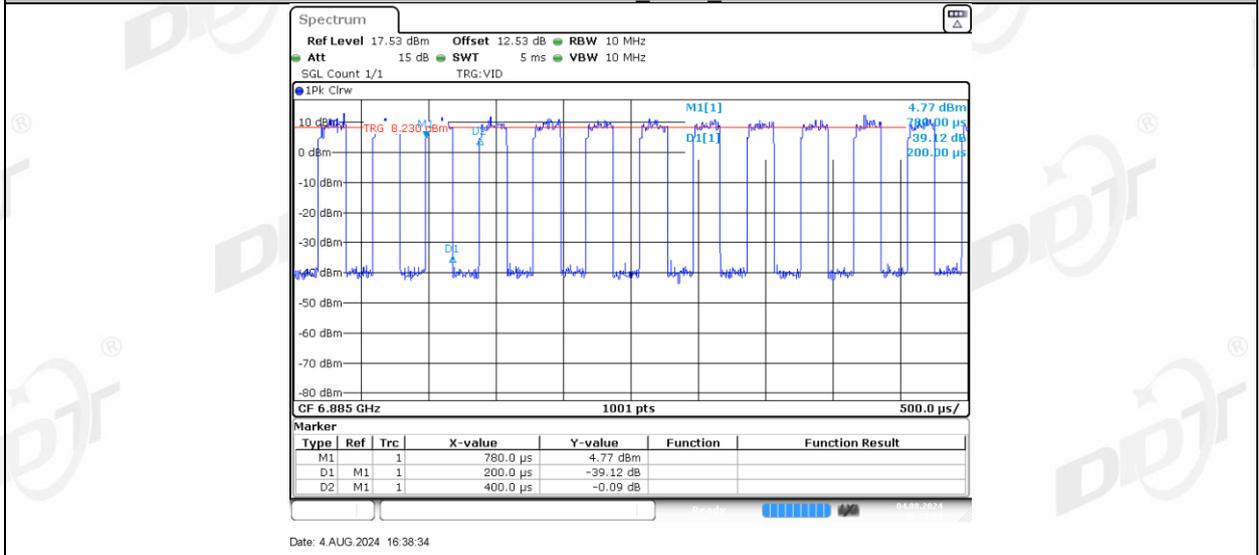
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11AX40MIMO Ant-1_6885



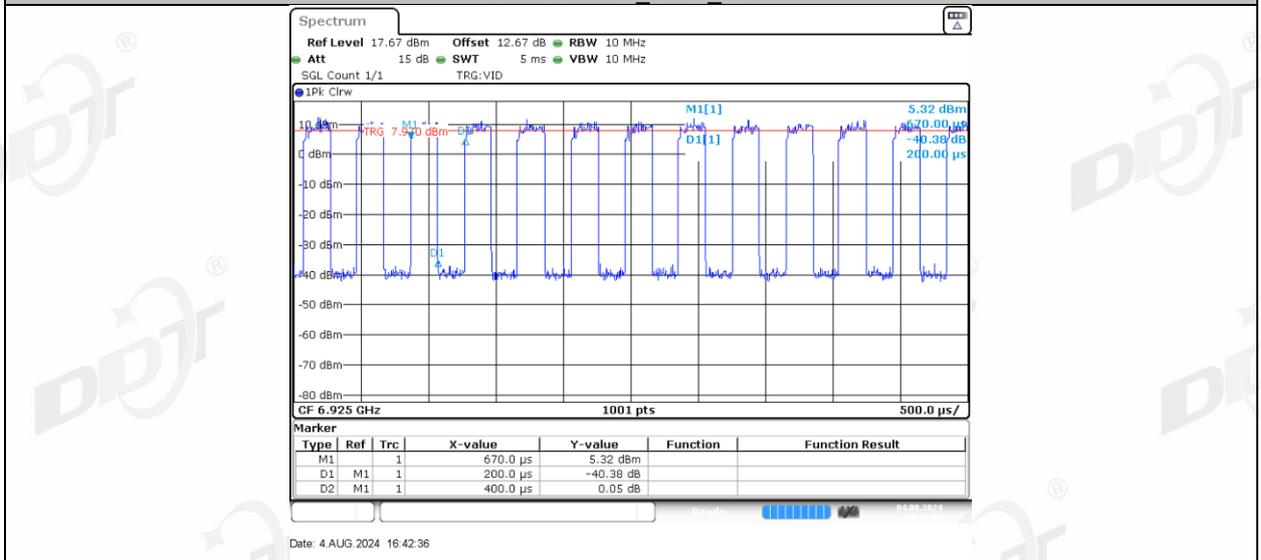
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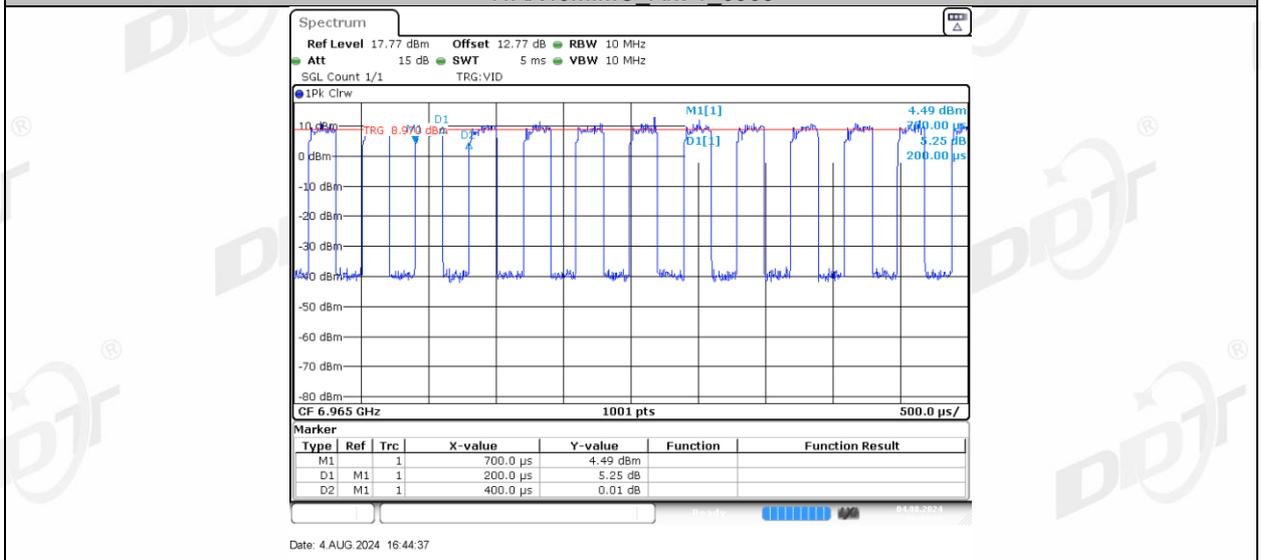
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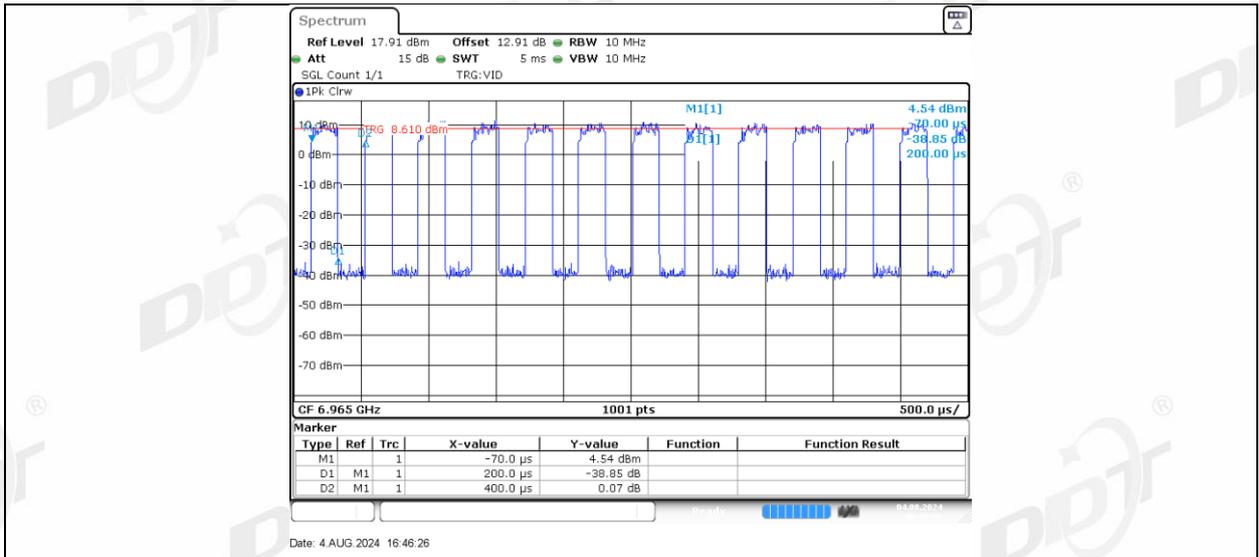
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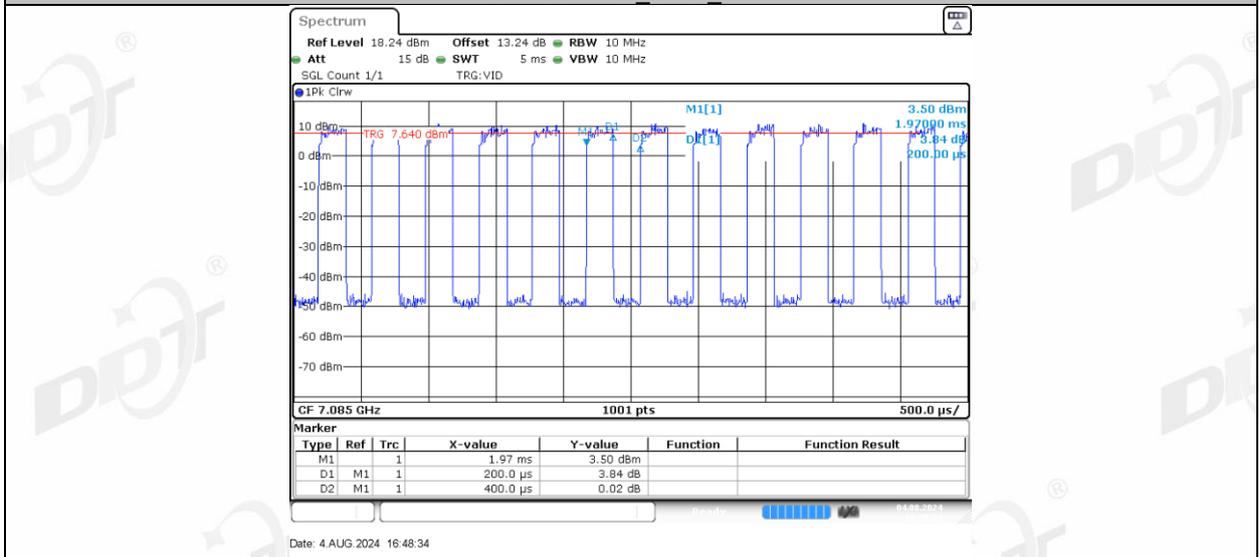
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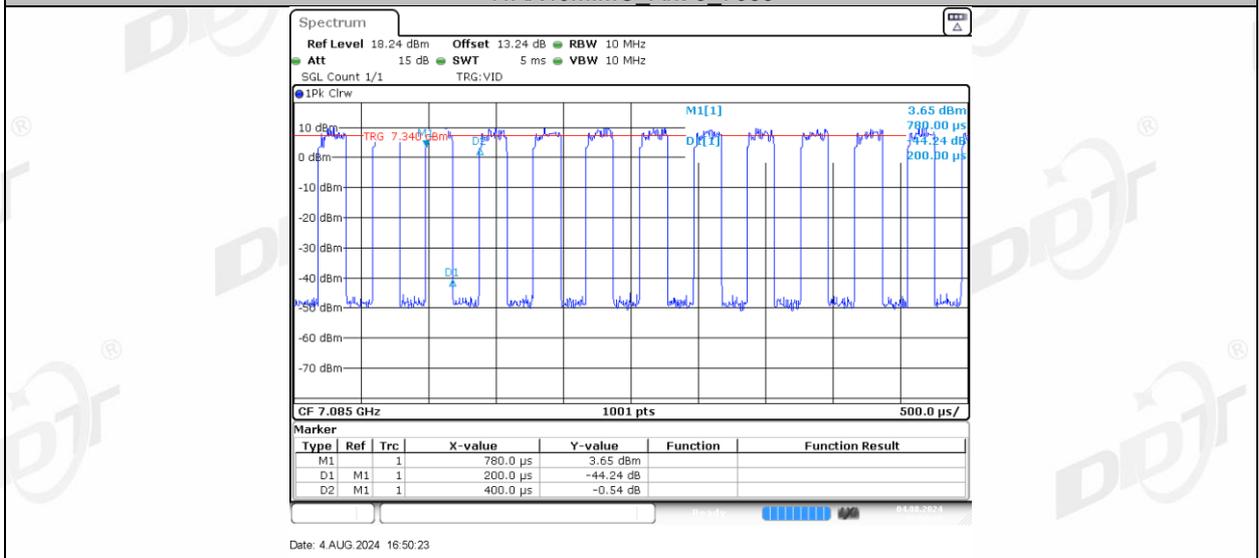
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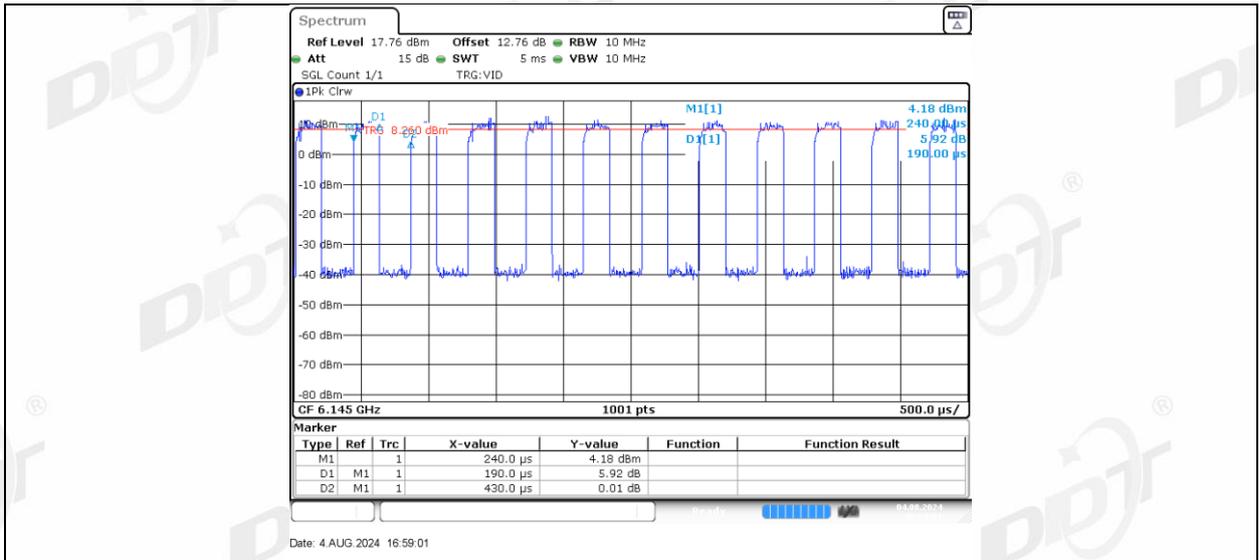
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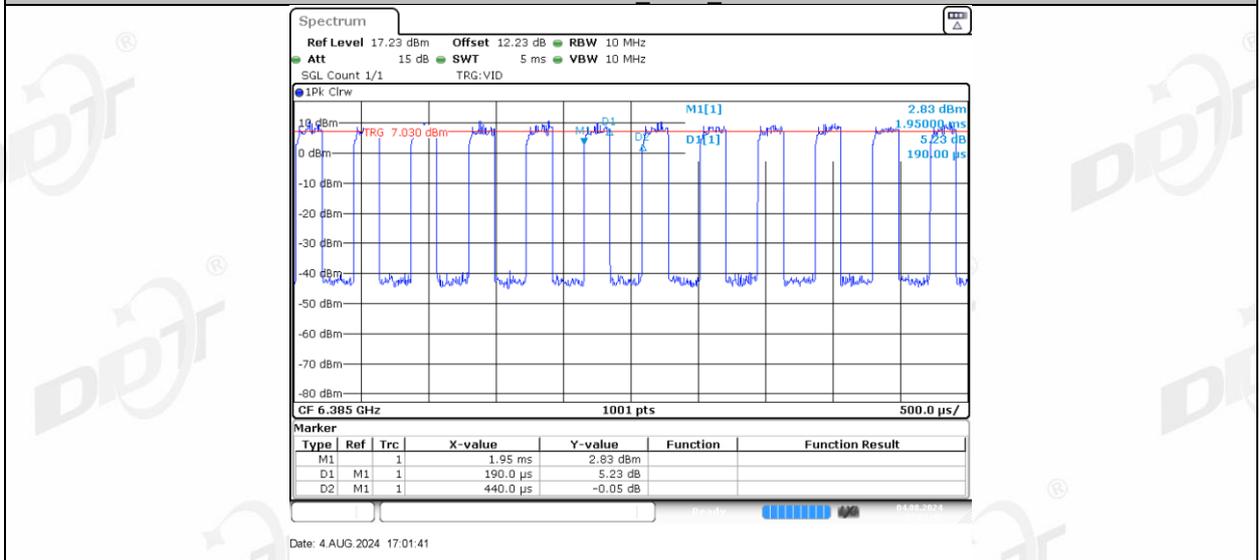
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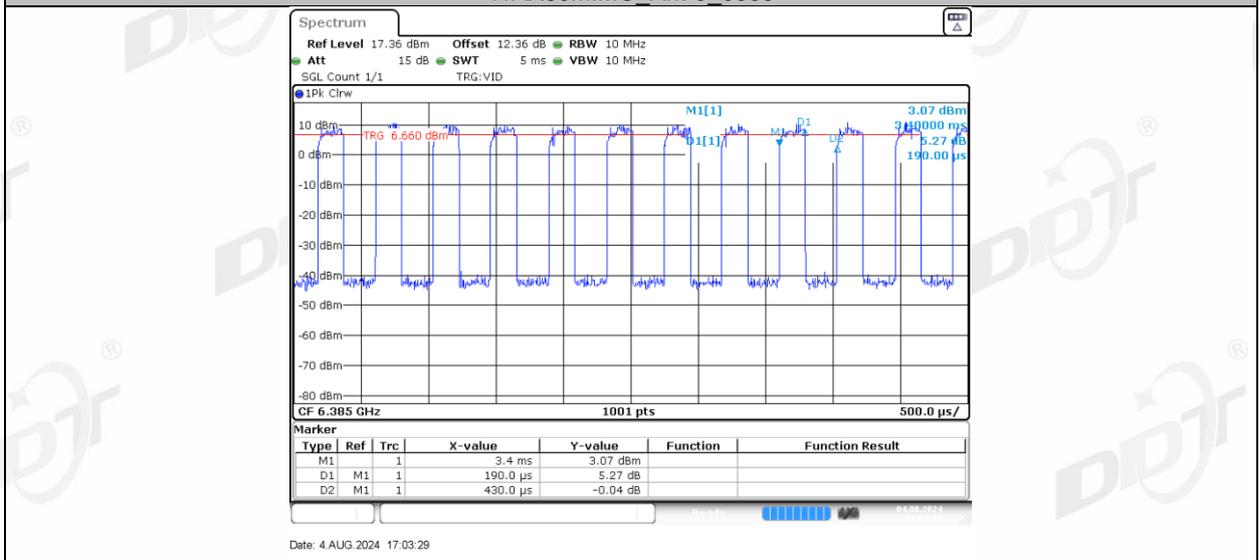
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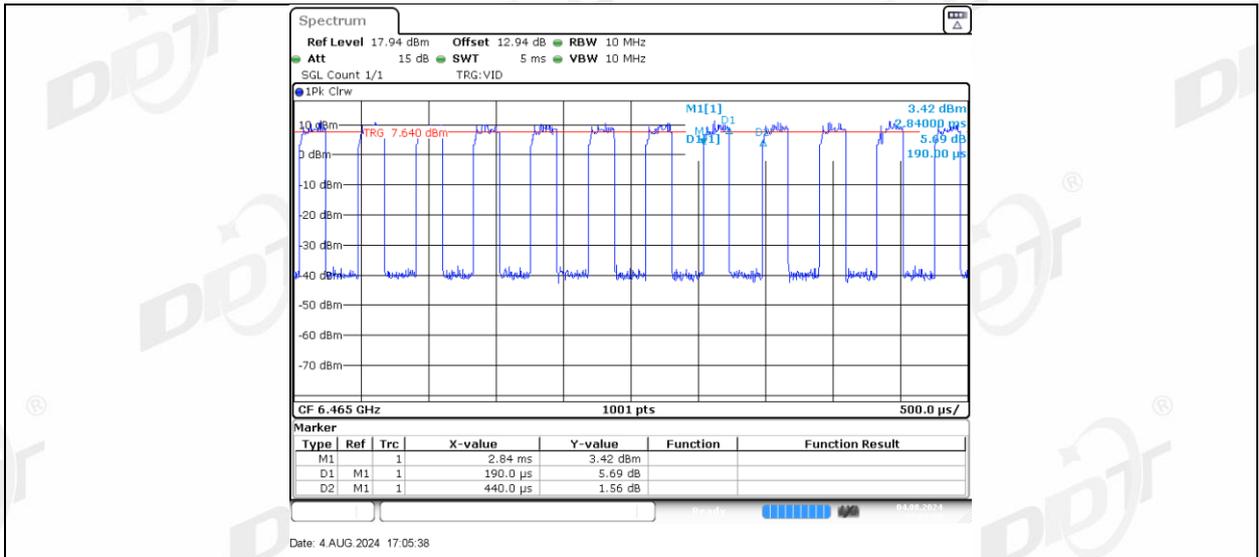
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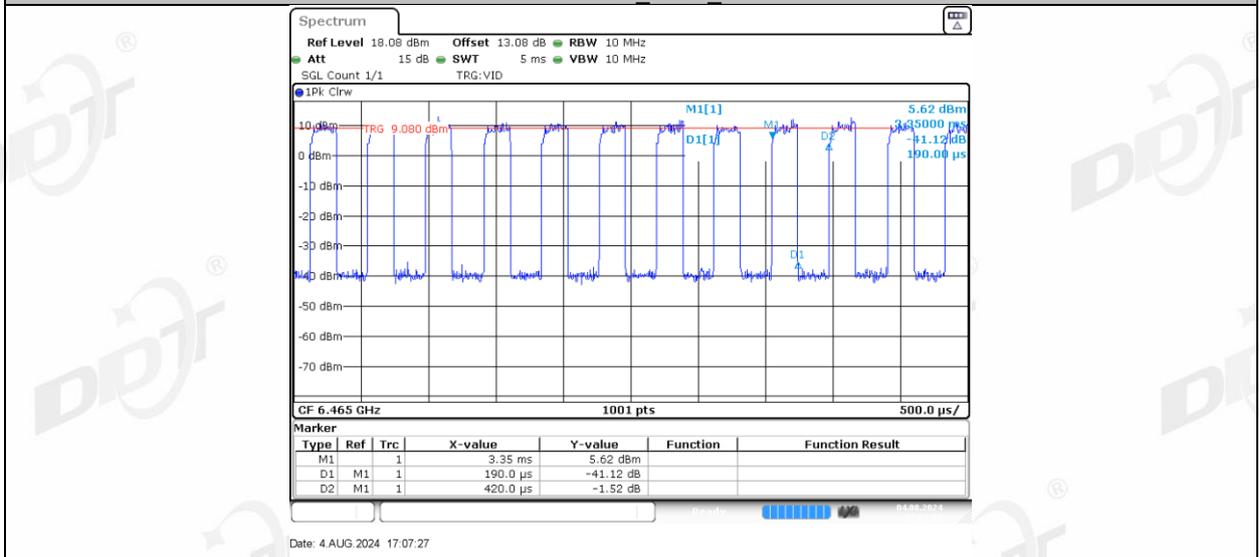
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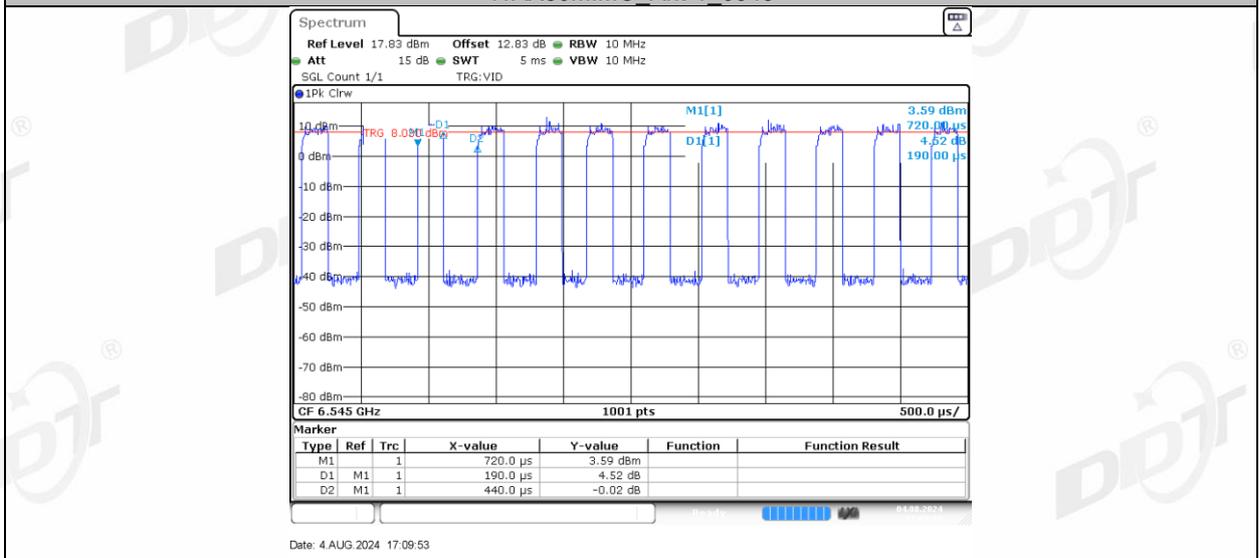
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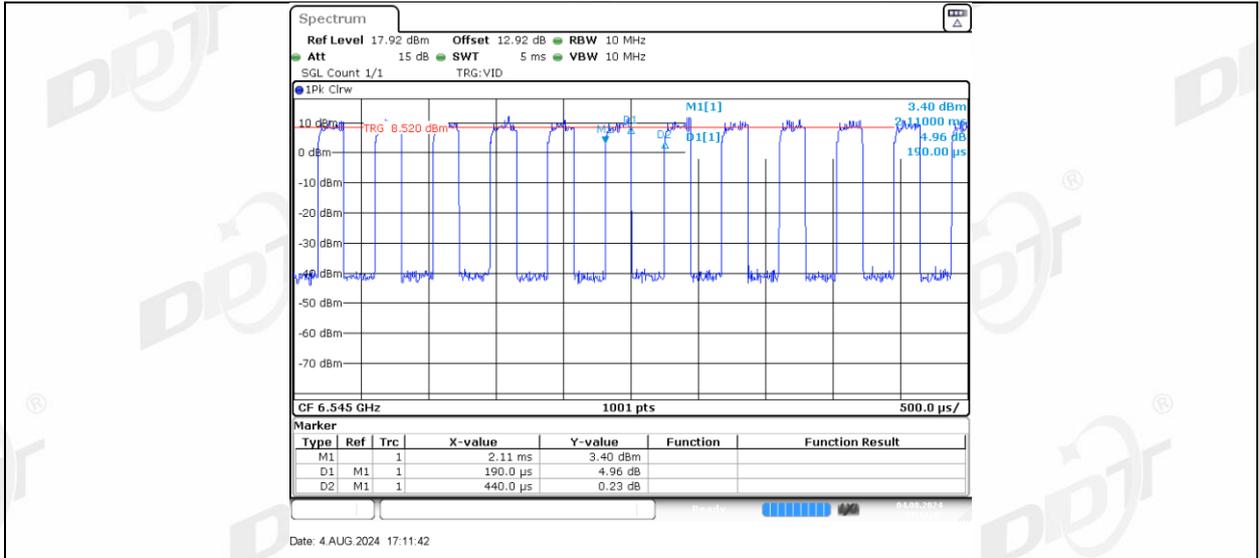
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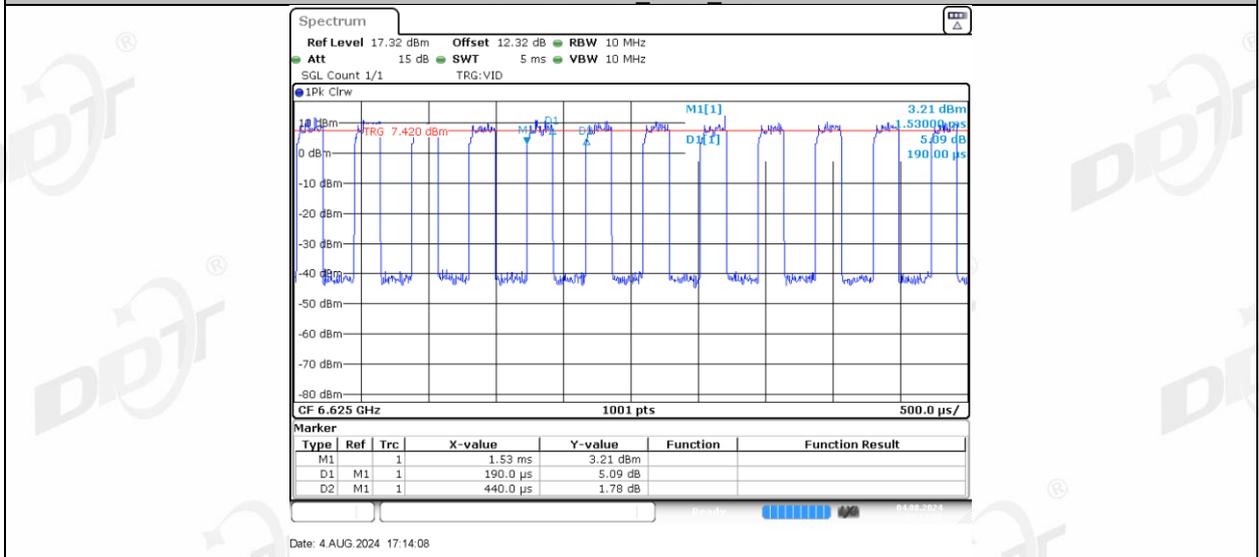
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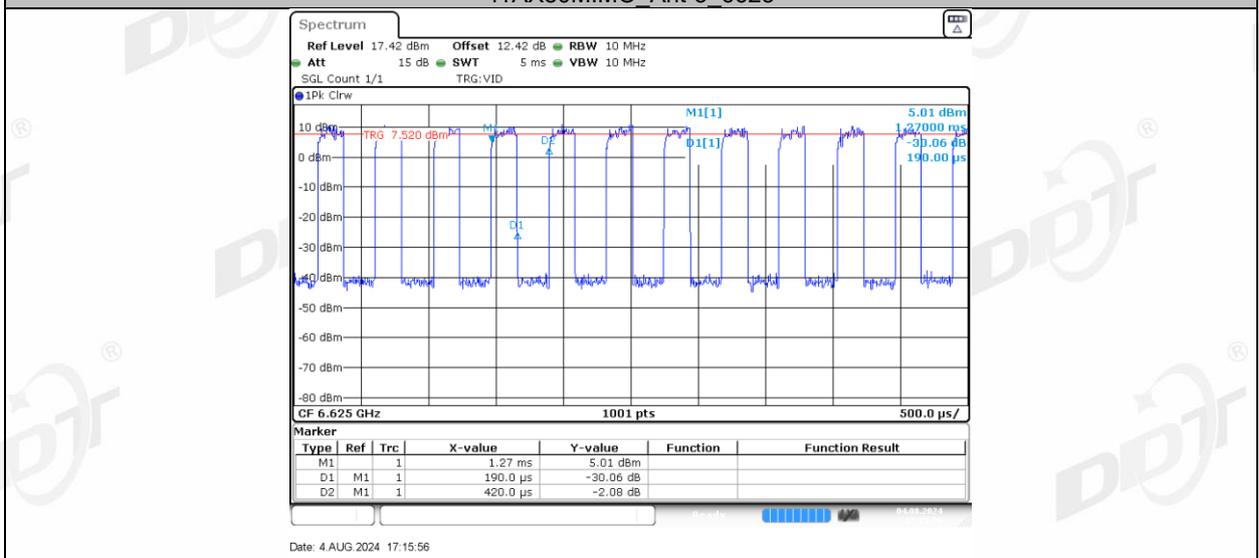
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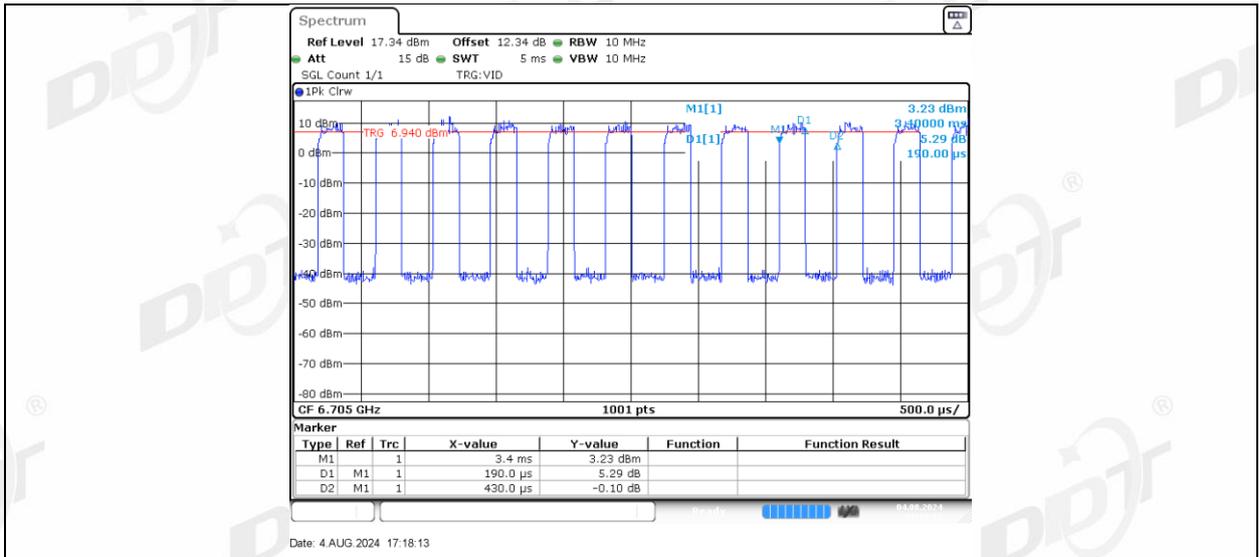
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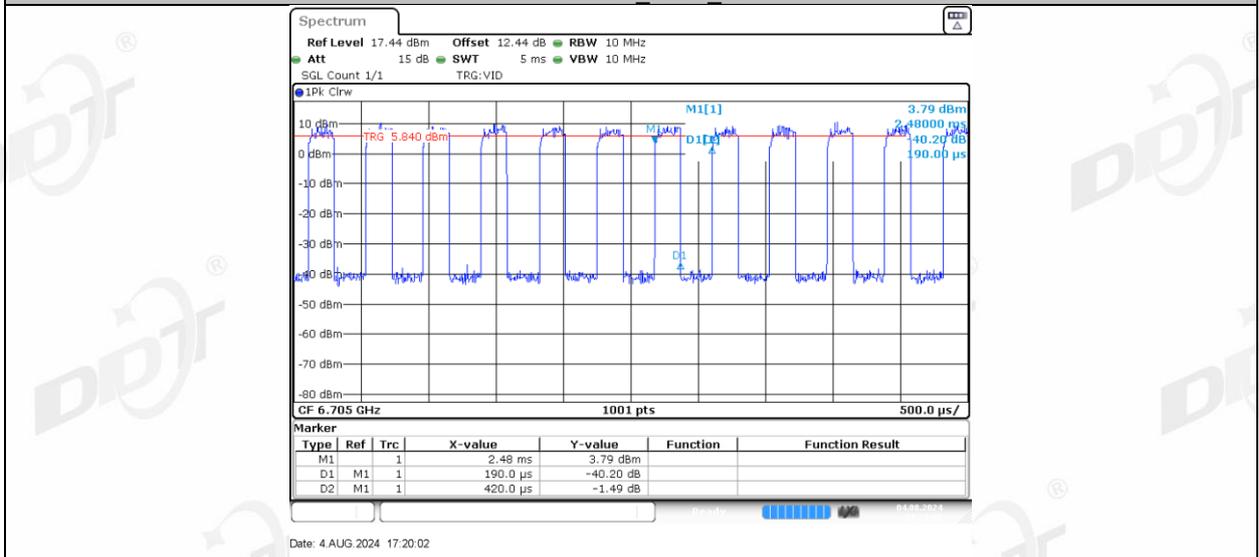
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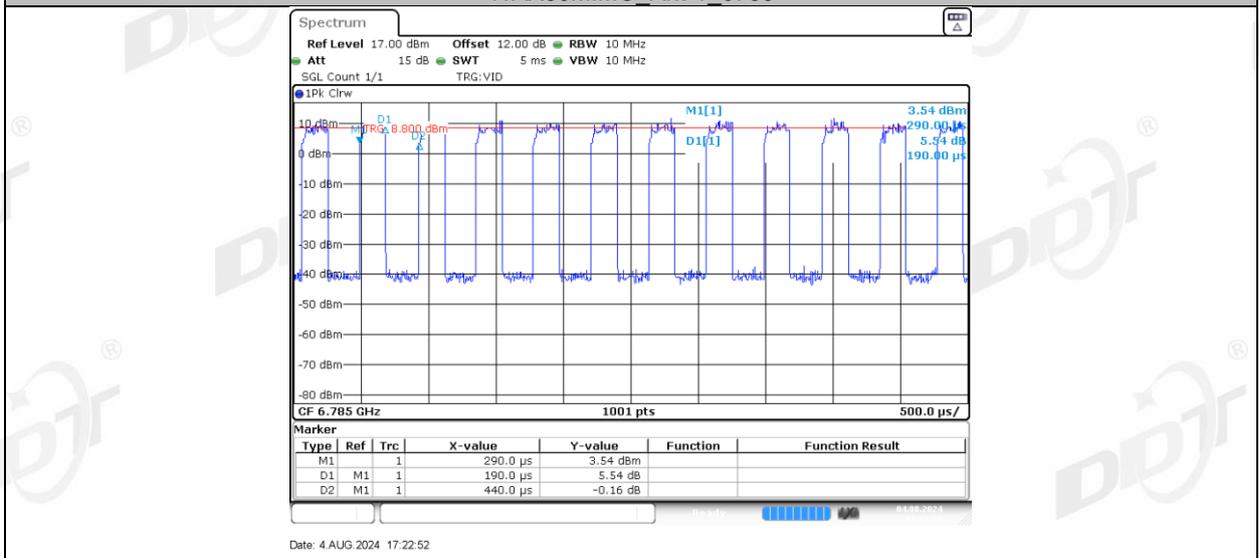
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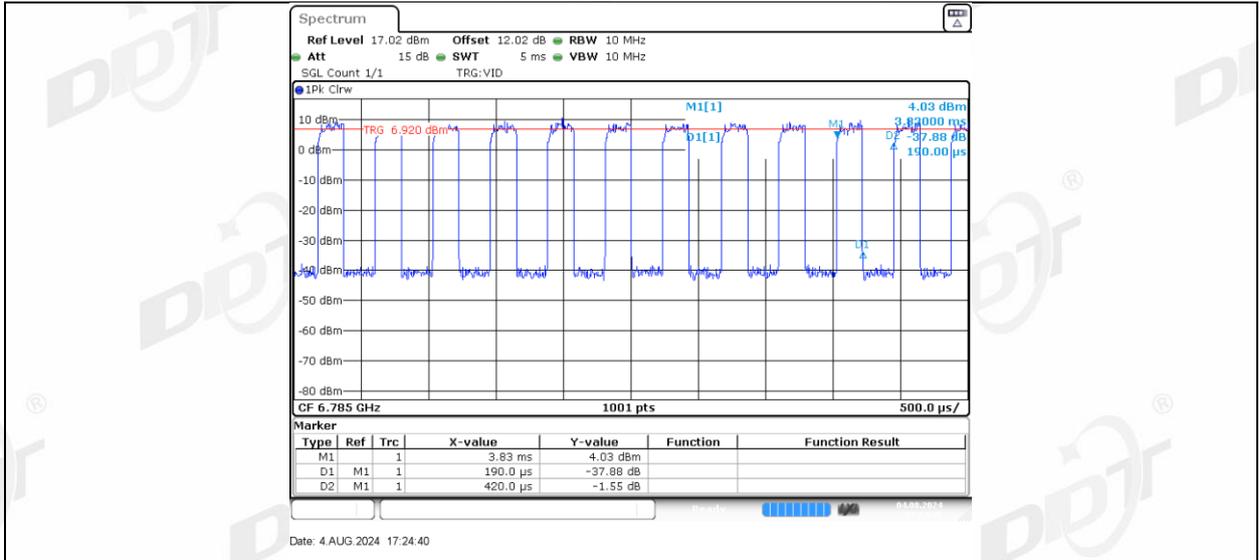
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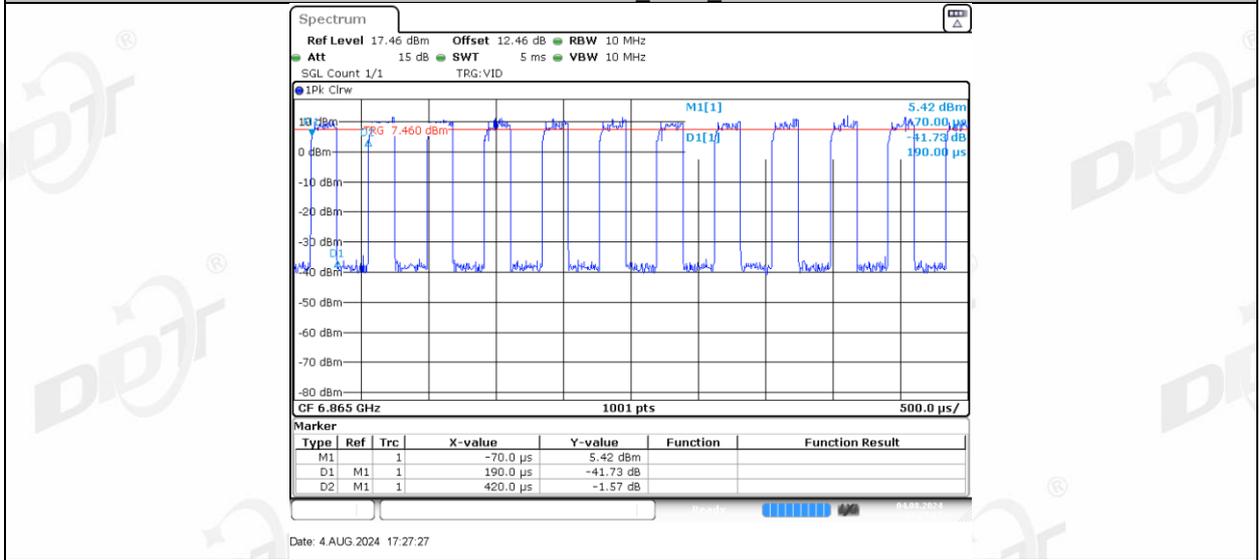
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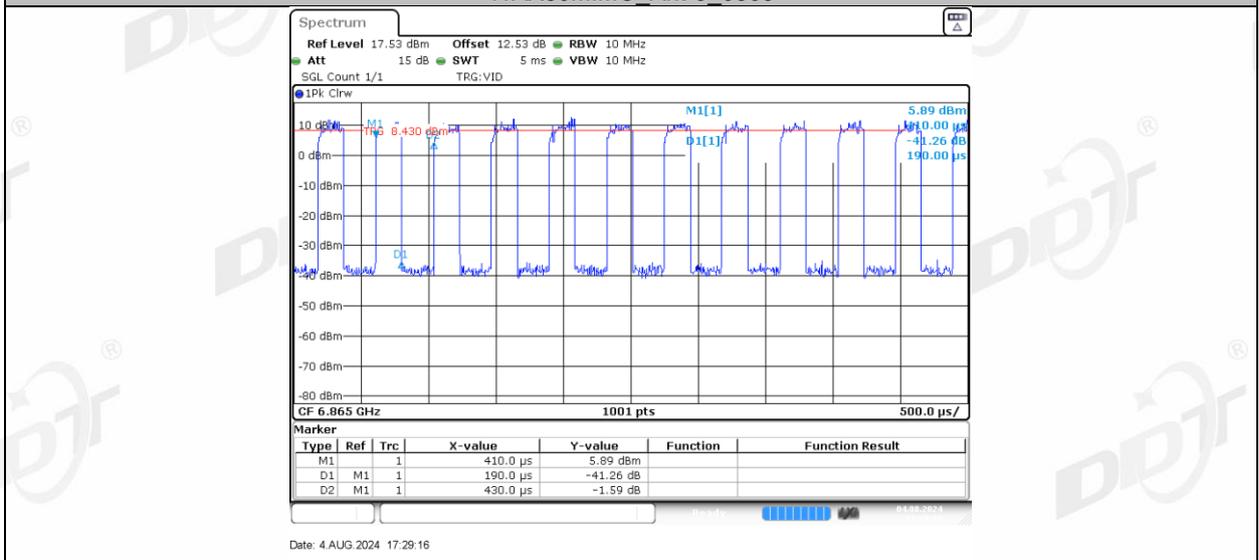
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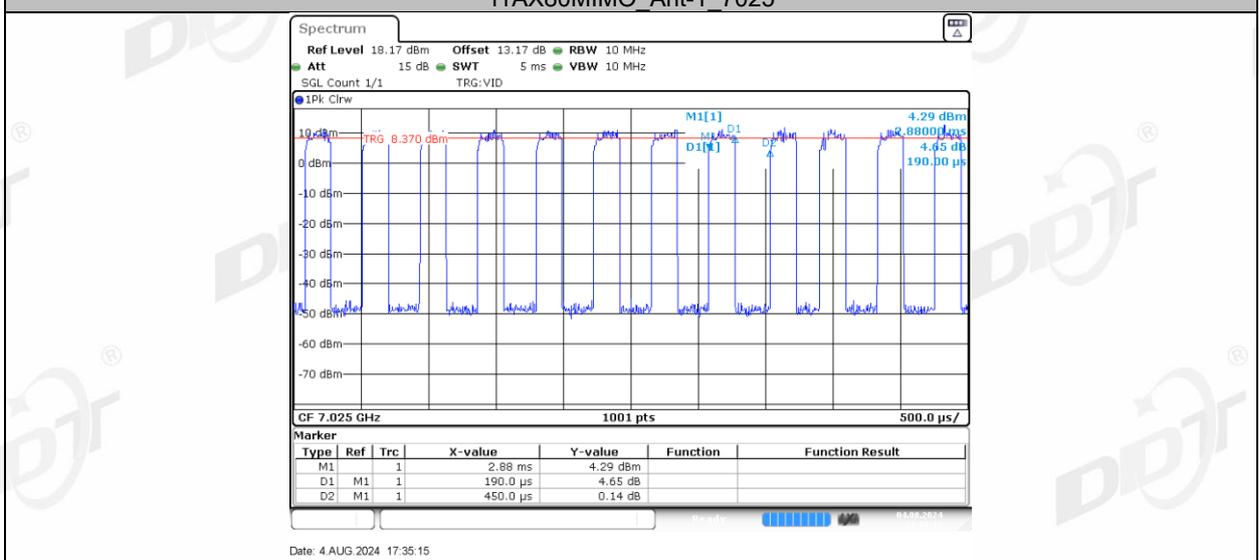
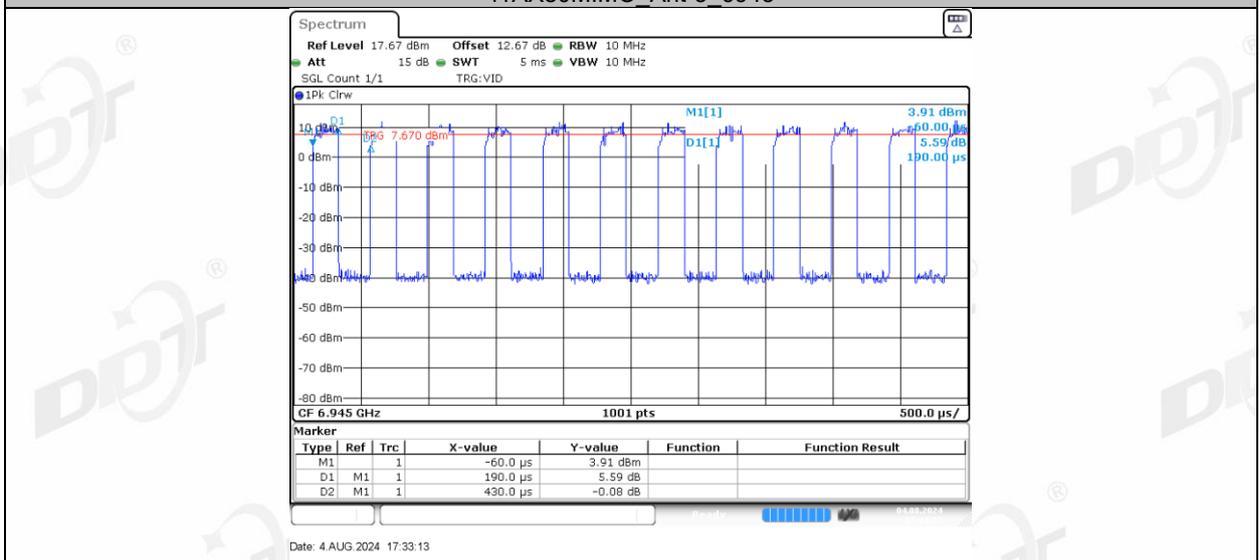
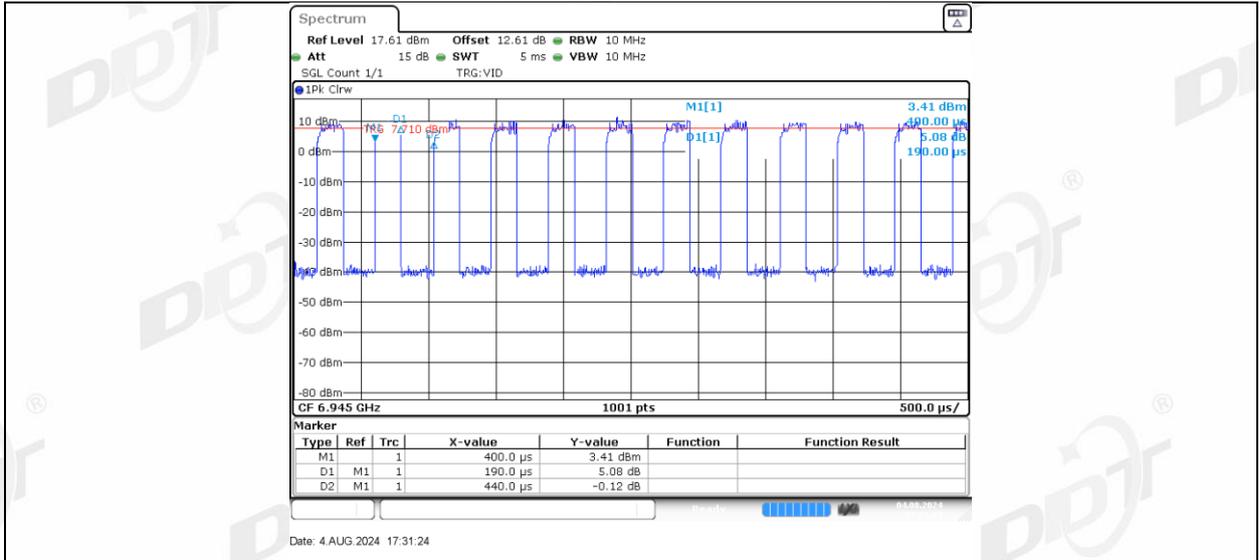
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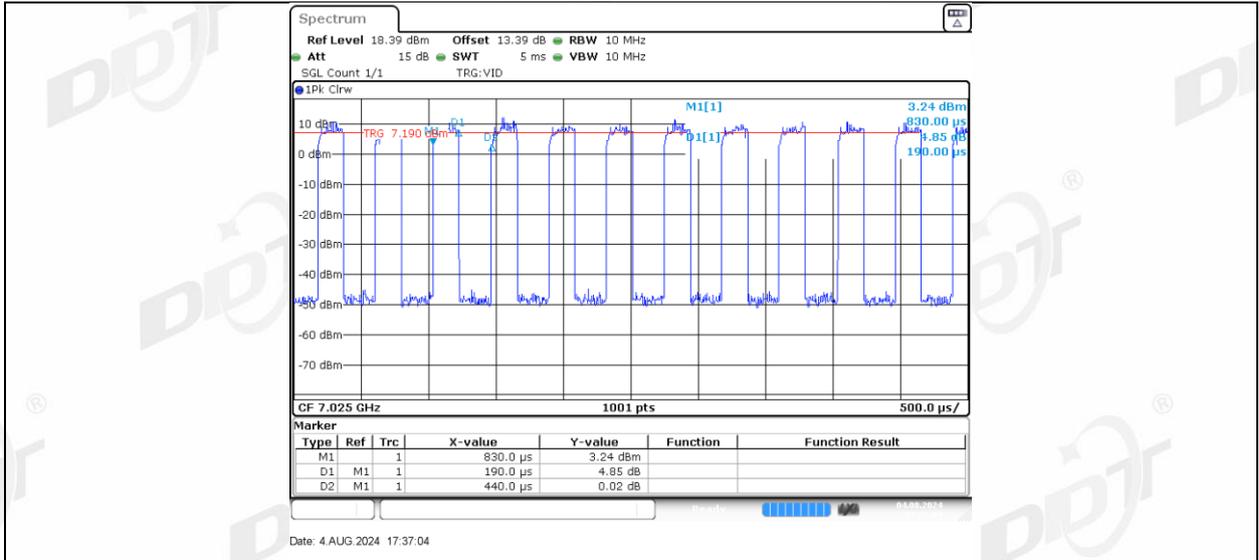


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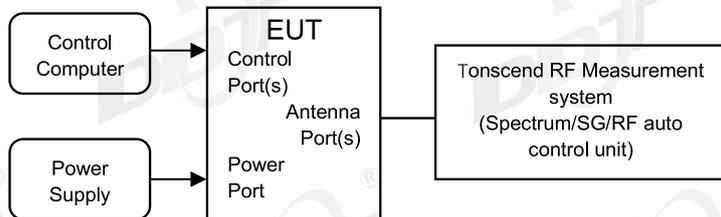
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7. Maximum Equivalent Isotropically Radiated Power (E.I.R.P.)

7.1. Block diagram of test setup



7.2. Limits

| FCC Part15, Subpart E/ RSS-248 | | |
|---|--|-------------------------|
| Devices type | Limit | Frequency Range (MHz) |
| RLAN devices other than client devices | For FCC: standard power access point and fixed client device: 36 dBm outdoor devices: any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm). | 5925-6425 and 6525-6875 |
| | For FCC: indoor access point: 30 dBm | 5925-7125 |
| | For FCC: a subordinate device operating under the control of an indoor access point: 30 dBm | 5925-7125 |
| | For RSS: 30 dBm/occupied bandwidth. | 5925-7125 |
| Client devices | For FCC: client devices under the control of a standard power access point: 30 dBm, and the device must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power. | 5925-6425 and 6525-6875 |
| | For FCC: For client devices operating under the control of an indoor access point: 24 dBm | 5925-7125 |
| | For RSS: 24 dBm/occupied bandwidth | 5925-7125 |
| Note: This Module meet the requirement of indoor access point devices | | |

7.3. Test procedure

Connect each EUT's antenna output to power sensor by RF cable and attenuator

Measure the output power of each antenna port by power sensor.

7.4. Test Result

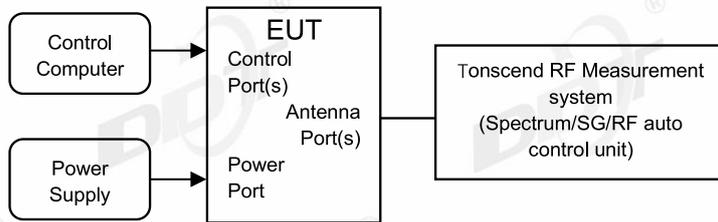
| Test Mode | Antenna | Freq. [MHz] | Duty Cycle [%] | DC Factor [dBm] | Result [dBm] | Limit [dBm] | EIRP [dBm] | EIRP Limit [dBm] | Verdict |
|----------------|---------|-------------|----------------|-----------------|--------------|-------------|------------|------------------|---------|
| 11AX20MI MO | Ant-1 | 5955 | 50.00 | 3.01 | 3.51 | ≤25.26 | 8.25 | ≤30.00 | PASS |
| | Ant-3 | 5955 | 50.00 | 3.01 | 3.27 | ≤25.29 | 7.98 | ≤30.00 | PASS |
| | total | 5955 | --- | --- | 6.40 | ≤22.26 | 14.14 | ≤30.00 | PASS |
| | Ant-1 | 6175 | 51.28 | 2.90 | 3.60 | ≤25.26 | 8.34 | ≤30.00 | PASS |
| | Ant-3 | 6175 | 50.00 | 3.01 | 3.94 | ≤25.29 | 8.65 | ≤30.00 | PASS |
| | total | 6175 | --- | --- | 6.78 | ≤22.26 | 14.52 | ≤30.00 | PASS |
| | Ant-1 | 6415 | 36.36 | 4.39 | 4.41 | ≤25.26 | 9.15 | ≤30.00 | PASS |
| | Ant-3 | 6415 | 50.00 | 3.01 | 3.39 | ≤25.29 | 8.10 | ≤30.00 | PASS |
| | total | 6415 | --- | --- | 6.94 | ≤22.26 | 14.68 | ≤30.00 | PASS |
| | Ant-1 | 6435 | 50.00 | 3.01 | 3.14 | ≤25.26 | 7.88 | ≤30.00 | PASS |
| | Ant-3 | 6435 | 50.00 | 3.01 | 2.94 | ≤25.29 | 7.65 | ≤30.00 | PASS |
| | total | 6435 | --- | --- | 6.05 | ≤22.26 | 13.79 | ≤30.00 | PASS |
| | Ant-1 | 6475 | 50.00 | 3.01 | 3.60 | ≤25.26 | 8.34 | ≤30.00 | PASS |
| | Ant-3 | 6475 | 50.00 | 3.01 | 3.78 | ≤25.29 | 8.49 | ≤30.00 | PASS |
| | total | 6475 | --- | --- | 6.70 | ≤22.26 | 14.44 | ≤30.00 | PASS |
| | Ant-1 | 6515 | 50.00 | 3.01 | 3.47 | ≤25.26 | 8.21 | ≤30.00 | PASS |
| | Ant-3 | 6515 | 50.00 | 3.01 | 3.23 | ≤25.29 | 7.94 | ≤30.00 | PASS |
| | total | 6515 | --- | --- | 6.36 | ≤22.26 | 14.10 | ≤30.00 | PASS |
| | Ant-1 | 6535 | 50.00 | 3.01 | 3.79 | ≤25.26 | 8.53 | ≤30.00 | PASS |
| | Ant-3 | 6535 | 50.00 | 3.01 | 3.28 | ≤25.29 | 7.99 | ≤30.00 | PASS |
| | total | 6535 | --- | --- | 6.55 | ≤22.26 | 14.29 | ≤30.00 | PASS |
| | Ant-1 | 6695 | 50.00 | 3.01 | 3.17 | ≤25.26 | 7.91 | ≤30.00 | PASS |
| | Ant-3 | 6695 | 50.00 | 3.01 | 3.12 | ≤25.29 | 7.83 | ≤30.00 | PASS |
| | total | 6695 | --- | --- | 6.16 | ≤22.26 | 13.90 | ≤30.00 | PASS |
| | Ant-1 | 6855 | 50.00 | 3.01 | 3.46 | ≤25.26 | 8.20 | ≤30.00 | PASS |
| | Ant-3 | 6855 | 50.00 | 3.01 | 3.77 | ≤25.29 | 8.48 | ≤30.00 | PASS |
| | total | 6855 | --- | --- | 6.63 | ≤22.26 | 14.37 | ≤30.00 | PASS |
| | Ant-1 | 6875 | 50.00 | 3.01 | 3.83 | ≤25.26 | 8.57 | ≤30.00 | PASS |
| | Ant-3 | 6875 | 50.00 | 3.01 | 3.56 | ≤25.29 | 8.27 | ≤30.00 | PASS |
| | total | 6875 | --- | --- | 6.71 | ≤22.26 | 14.45 | ≤30.00 | PASS |
| | Ant-1 | 6895 | 50.00 | 3.01 | 3.92 | ≤25.26 | 8.66 | ≤30.00 | PASS |
| | Ant-3 | 6895 | 50.00 | 3.01 | 3.75 | ≤25.29 | 8.46 | ≤30.00 | PASS |
| | total | 6895 | --- | --- | 6.85 | ≤22.26 | 14.59 | ≤30.00 | PASS |
| | Ant-1 | 6995 | 50.00 | 3.01 | 4.50 | ≤25.26 | 9.24 | ≤30.00 | PASS |
| | Ant-3 | 6995 | 50.00 | 3.01 | 3.16 | ≤25.29 | 7.87 | ≤30.00 | PASS |
| | total | 6995 | --- | --- | 6.89 | ≤22.26 | 14.63 | ≤30.00 | PASS |
| Ant-1 | 7095 | 50.00 | 3.01 | 3.94 | ≤25.26 | 8.68 | ≤30.00 | PASS | |
| Ant-3 | 7095 | 50.00 | 3.01 | 2.51 | ≤25.29 | 7.22 | ≤30.00 | PASS | |
| total | 7095 | --- | --- | 6.29 | ≤22.26 | 14.03 | ≤30.00 | PASS | |
| Ant-1 | 7115 | 58.95 | 2.30 | -9.31 | ≤25.26 | -4.57 | ≤30.00 | PASS | |
| Ant-3 | 7115 | 58.51 | 2.33 | -10.08 | ≤25.29 | -5.37 | ≤30.00 | PASS | |
| total | 7115 | --- | --- | -6.67 | ≤22.26 | 1.07 | ≤30.00 | PASS | |
| 11AX40MI MO | Ant-1 | 5965 | 45.07 | 3.46 | 7.18 | ≤25.26 | 11.92 | ≤30.00 | PASS |
| | Ant-3 | 5965 | 45.07 | 3.46 | 7.53 | ≤25.29 | 12.24 | ≤30.00 | PASS |
| | total | 5965 | --- | --- | 10.37 | ≤22.26 | 18.11 | ≤30.00 | PASS |
| | Ant-1 | 6165 | 45.07 | 3.46 | 7.96 | ≤25.26 | 12.70 | ≤30.00 | PASS |
| | Ant-3 | 6165 | 45.07 | 3.46 | 8.33 | ≤25.29 | 13.04 | ≤30.00 | PASS |
| | total | 6165 | --- | --- | 11.16 | ≤22.26 | 18.90 | ≤30.00 | PASS |
| | Ant-1 | 6405 | 45.07 | 3.46 | 7.08 | ≤25.26 | 11.82 | ≤30.00 | PASS |
| | Ant-3 | 6405 | 45.07 | 3.46 | 7.65 | ≤25.29 | 12.36 | ≤30.00 | PASS |
| | total | 6405 | --- | --- | 10.38 | ≤22.26 | 18.12 | ≤30.00 | PASS |
| | Ant-1 | 6445 | 50.00 | 3.01 | 7.06 | ≤25.26 | 11.80 | ≤30.00 | PASS |
| | Ant-3 | 6445 | 50.00 | 3.01 | 7.43 | ≤25.29 | 12.14 | ≤30.00 | PASS |
| | total | 6445 | --- | --- | 10.26 | ≤22.26 | 18.00 | ≤30.00 | PASS |
| | Ant-1 | 6485 | 50.00 | 3.01 | 7.65 | ≤25.26 | 12.39 | ≤30.00 | PASS |
| | Ant-3 | 6485 | 50.00 | 3.01 | 8.04 | ≤25.29 | 12.75 | ≤30.00 | PASS |
| | total | 6485 | --- | --- | 10.86 | ≤22.26 | 18.60 | ≤30.00 | PASS |
| | Ant-1 | 6525 | 50.00 | 3.01 | 7.46 | ≤25.26 | 12.20 | ≤30.00 | PASS |
| | Ant-3 | 6525 | 50.00 | 3.01 | 7.71 | ≤25.29 | 12.42 | ≤30.00 | PASS |

| | | | | | | | | | |
|--|-------|------|-------|------|-------|--------|-------|--------|------|
| | total | 6525 | --- | --- | 10.60 | ≤22.26 | 18.34 | ≤30.00 | PASS |
| | Ant-1 | 6565 | 50.00 | 3.01 | 8.20 | ≤25.26 | 12.94 | ≤30.00 | PASS |
| | Ant-3 | 6565 | 50.00 | 3.01 | 7.87 | ≤25.29 | 12.58 | ≤30.00 | PASS |
| | total | 6565 | --- | --- | 11.05 | ≤22.26 | 18.79 | ≤30.00 | PASS |
| | Ant-1 | 6685 | 50.00 | 3.01 | 7.74 | ≤25.26 | 12.48 | ≤30.00 | PASS |
| | Ant-3 | 6685 | 50.00 | 3.01 | 7.61 | ≤25.29 | 12.32 | ≤30.00 | PASS |
| | total | 6685 | --- | --- | 10.69 | ≤22.26 | 18.43 | ≤30.00 | PASS |
| | Ant-1 | 6845 | 50.00 | 3.01 | 7.44 | ≤25.26 | 12.18 | ≤30.00 | PASS |
| | Ant-3 | 6845 | 50.00 | 3.01 | 8.18 | ≤25.29 | 12.89 | ≤30.00 | PASS |
| | total | 6845 | --- | --- | 10.84 | ≤22.26 | 18.58 | ≤30.00 | PASS |
| | Ant-1 | 6885 | 50.00 | 3.01 | 7.60 | ≤25.26 | 12.34 | ≤30.00 | PASS |
| | Ant-3 | 6885 | 50.00 | 3.01 | 8.20 | ≤25.29 | 12.91 | ≤30.00 | PASS |
| | total | 6885 | --- | --- | 10.92 | ≤22.26 | 18.66 | ≤30.00 | PASS |
| | Ant-1 | 6925 | 50.00 | 3.01 | 8.03 | ≤25.26 | 12.77 | ≤30.00 | PASS |
| | Ant-3 | 6925 | 50.00 | 3.01 | 7.96 | ≤25.29 | 12.67 | ≤30.00 | PASS |
| | total | 6925 | --- | --- | 11.01 | ≤22.26 | 18.75 | ≤30.00 | PASS |
| | Ant-1 | 6965 | 50.00 | 3.01 | 8.23 | ≤25.26 | 12.97 | ≤30.00 | PASS |
| | Ant-3 | 6965 | 50.00 | 3.01 | 7.91 | ≤25.29 | 12.62 | ≤30.00 | PASS |
| | total | 6965 | --- | --- | 11.08 | ≤22.26 | 18.82 | ≤30.00 | PASS |
| | Ant-1 | 7085 | 50.00 | 3.01 | 7.52 | ≤25.26 | 12.26 | ≤30.00 | PASS |
| | Ant-3 | 7085 | 50.00 | 3.01 | 6.98 | ≤25.29 | 11.69 | ≤30.00 | PASS |
| | total | 7085 | --- | --- | 10.27 | ≤22.26 | 18.01 | ≤30.00 | PASS |
| | Ant-1 | 5985 | 42.22 | 3.74 | 10.14 | ≤25.26 | 14.88 | ≤30.00 | PASS |
| | Ant-3 | 5985 | 45.24 | 3.44 | 10.35 | ≤25.29 | 15.06 | ≤30.00 | PASS |
| | total | 5985 | --- | --- | 13.26 | ≤22.26 | 21.00 | ≤30.00 | PASS |
| | Ant-1 | 6145 | 44.19 | 3.55 | 10.86 | ≤25.26 | 15.60 | ≤30.00 | PASS |
| | Ant-3 | 6145 | 44.19 | 3.55 | 11.04 | ≤25.29 | 15.75 | ≤30.00 | PASS |
| | total | 6145 | --- | --- | 13.96 | ≤22.26 | 21.70 | ≤30.00 | PASS |
| | Ant-1 | 6385 | 43.18 | 3.65 | 10.16 | ≤25.26 | 14.90 | ≤30.00 | PASS |
| | Ant-3 | 6385 | 44.19 | 3.55 | 10.55 | ≤25.29 | 15.26 | ≤30.00 | PASS |
| | total | 6385 | --- | --- | 13.37 | ≤22.26 | 21.11 | ≤30.00 | PASS |
| | Ant-1 | 6465 | 43.18 | 3.65 | 10.48 | ≤25.26 | 15.22 | ≤30.00 | PASS |
| | Ant-3 | 6465 | 45.24 | 3.44 | 10.18 | ≤25.29 | 14.89 | ≤30.00 | PASS |
| | total | 6465 | --- | --- | 13.34 | ≤22.26 | 21.08 | ≤30.00 | PASS |
| | Ant-1 | 6545 | 43.18 | 3.65 | 11.05 | ≤25.26 | 15.79 | ≤30.00 | PASS |
| | Ant-3 | 6545 | 43.18 | 3.65 | 10.55 | ≤25.29 | 15.26 | ≤30.00 | PASS |
| | total | 6545 | --- | --- | 13.82 | ≤22.26 | 21.56 | ≤30.00 | PASS |
| | Ant-1 | 6625 | 43.18 | 3.65 | 11.03 | ≤25.26 | 15.77 | ≤30.00 | PASS |
| | Ant-3 | 6625 | 45.24 | 3.44 | 10.72 | ≤25.29 | 15.43 | ≤30.00 | PASS |
| | total | 6625 | --- | --- | 13.89 | ≤22.26 | 21.63 | ≤30.00 | PASS |
| | Ant-1 | 6705 | 44.19 | 3.55 | 10.48 | ≤25.26 | 15.22 | ≤30.00 | PASS |
| | Ant-3 | 6705 | 45.24 | 3.44 | 10.40 | ≤25.29 | 15.11 | ≤30.00 | PASS |
| | total | 6705 | --- | --- | 13.45 | ≤22.26 | 21.19 | ≤30.00 | PASS |
| | Ant-1 | 6785 | 43.18 | 3.65 | 10.40 | ≤25.26 | 15.14 | ≤30.00 | PASS |
| | Ant-3 | 6785 | 45.24 | 3.44 | 10.29 | ≤25.29 | 15.00 | ≤30.00 | PASS |
| | total | 6785 | --- | --- | 13.36 | ≤22.26 | 21.10 | ≤30.00 | PASS |
| | Ant-1 | 6865 | 45.24 | 3.44 | 10.69 | ≤25.26 | 15.43 | ≤30.00 | PASS |
| | Ant-3 | 6865 | 44.19 | 3.55 | 10.80 | ≤25.29 | 15.51 | ≤30.00 | PASS |
| | total | 6865 | --- | --- | 13.76 | ≤22.26 | 21.50 | ≤30.00 | PASS |
| | Ant-1 | 6945 | 43.18 | 3.65 | 11.22 | ≤25.26 | 15.96 | ≤30.00 | PASS |
| | Ant-3 | 6945 | 44.19 | 3.55 | 10.65 | ≤25.29 | 15.36 | ≤30.00 | PASS |
| | total | 6945 | --- | --- | 13.95 | ≤22.26 | 21.69 | ≤30.00 | PASS |
| | Ant-1 | 7025 | 42.22 | 3.74 | 11.39 | ≤25.26 | 16.13 | ≤30.00 | PASS |
| | Ant-3 | 7025 | 43.18 | 3.65 | 10.00 | ≤25.29 | 14.71 | ≤30.00 | PASS |
| | total | 7025 | --- | --- | 13.76 | ≤22.26 | 21.50 | ≤30.00 | PASS |

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

8. Maximum Power Spectral Density

8.1. Block diagram of test setup



8.2. Limits

| FCC Part15, Subpart E/ RSS-248 | | |
|--|---|-------------------------|
| Devices type | Limit | Frequency Range (MHz) |
| RLAN devices other than client devices | For FCC: standard power access point and fixed client device: 23 dBm e.i.r.p in any 1-megahertz band outdoor devices: any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm). | 5925-6425 and 6525-6875 |
| | For FCC: indoor access point: 5 dBm e.i.r.p. in any 1-megahertz band | 5925-7125 |
| | For FCC: a subordinate device operating under the control of an indoor access point: 5 dBm e.i.r.p. in any 1-megahertz band | 5925-7125 |
| | For RSS: 5 dBm/MHz | 5925-7125 |
| Client devices | For FCC: client devices under the control of a standard power access point: 17 dBm e.i.r.p. in any 1-megahertz band | 5925-6425 and 6525-6875 |
| | For FCC: For client devices operating under the control of an indoor access point: -1 dBm e.i.r.p. in any 1-megahertz band | 5925-7125 |
| | For RSS: -1 dBm/MHz | 5925-7125 |

8.3. Test procedure

The transmitter output was connected to a spectrum analyzer. Power density was measured by spectrum analyzer with 1MHz RBW and 3MHz VBW.

Connect the UUT to the spectrum analyser and use the following settings:

| | |
|------------------|--|
| Center Frequency | The centre frequency of the channel under test |
| Detector | RMS |
| RBW | 1MHz |
| VBW | $\geq 3 \times \text{RBW}$ |
| Span | Encompass the entire emissions bandwidth (EBW) of the signal |
| Trace | Max hold |
| Sweep time | Auto |