

|              |                 |                     |                  |
|--------------|-----------------|---------------------|------------------|
| Manufacturer | Wavetek/Datron  | Calibration date    | 17 November 2016 |
| Model Number | Model 4920M     | Ambient Temperature | 1                |
| Serial       | 0544257         | Relative Humidity   | 2                |
| ID Number    | XM7T            | Pressure            | 3                |
| Notes        | TW CalFest 2016 | Test type           | PERFVAL          |

This note is test dummy text block for further use. It allow to include user information for further reference

| Reference standard | Mfg   | Model | Options | Serial Number | CEID | Calibration date | Due date   |
|--------------------|-------|-------|---------|---------------|------|------------------|------------|
| MFC                | Fluke | 5720A | WB      | A0XXXX        | IM01 | 2016/08/29       | 2016/10/29 |
| Guardband          | Fluke | 5790A |         | XXX           | IS01 | 2016/09/16       | 2016/10/16 |

|                              |           |
|------------------------------|-----------|
| Meter Info                   | .         |
| Line frequency               | .         |
| Next calibration date        | .         |
| Last calibration date        | .         |
| DUT temperature to cal       | -9.24     |
| Last calibration temperature | +25.1     |
| Read LTZ1000, VDC            | +7.xxxxxx |
| All CAL values               | .         |

| Test Description           | Expected Value    | Measured Value | Measurement Uncertainty | Lower Limit | Upper Limit | Units | Deviation       | DUT Spec           | Test Status   |
|----------------------------|-------------------|----------------|-------------------------|-------------|-------------|-------|-----------------|--------------------|---------------|
| <b>Full range ACV Test</b> | <b>0.3V-1000V</b> | <b>4920M</b>   | <b>w/Guardband</b>      |             |             |       | <b>Measured</b> | <b>1 year spec</b> | <b>Result</b> |
| 0.3 VAC @ 10 Hz            | 0.3               | 0.31           | 10                      | 0.2999745   | 0.3000255   | VAC   | 0.0333 %        | 75                 | FAIL          |
| 0.3 VAC @ 40 Hz            | 0.3               | 0.3000285      | 10                      | 0.299988    | 0.300012    | VAC   | 95.000 ppm      | 30                 | FAIL          |
| 0.3 VAC @ 20.0 kHz         | 0.3               | 0.300021       | 10                      | 0.299976    | 0.300024    | VAC   | 70.000 ppm      | 70                 | PASS          |
| 0.3 VAC @ 50.0 kHz         | 0.3               | 0.3            | 10                      | 0.299952    | 0.300048    | VAC   | 0.000 ppm       | 150                | PASS          |
| 0.3 VAC @ 100.0 kHz        | 0.3               | 0.3            | 10                      | 0.299907    | 0.300093    | VAC   | 0.000 ppm       | 300                | PASS          |
| 0.3 VAC @ 500.0 kHz        | 0.3               | 0.3            | 10                      | 0.299697    | 0.300303    | VAC   | 0.000 ppm       | 1000               | PASS          |
| 0.3 VAC @ 1.0 MHz          | 0.3               | 0.3            | 10                      | 0.299697    | 0.300303    | VAC   | 0.000 ppm       | 1000               | PASS          |

|                      |      |      |    |          |          |     |           |      |      |
|----------------------|------|------|----|----------|----------|-----|-----------|------|------|
| 1.0 VAC @ 10 Hz      | 1.0  | 1.0  | 10 | 0.999915 | 1.000085 | VAC | 0.000 ppm | 75   | PASS |
| 1.0 VAC @ 40 Hz      | 1.0  | 1.0  | 10 | 0.99996  | 1.00004  | VAC | 0.000 ppm | 30   | PASS |
| 1.0 VAC @ 20.0 kHz   | 1.0  | 1.0  | 10 | 0.99992  | 1.00008  | VAC | 0.000 ppm | 70   | PASS |
| 1.0 VAC @ 50.0 kHz   | 1.0  | 1.0  | 10 | 0.99984  | 1.00016  | VAC | 0.000 ppm | 150  | PASS |
| 1.0 VAC @ 100.0 kHz  | 1.0  | 1.0  | 10 | 0.99969  | 1.00031  | VAC | 0.000 ppm | 300  | PASS |
| 1.0 VAC @ 500.0 kHz  | 1.0  | 1.0  | 10 | 0.99899  | 1.00101  | VAC | 0.000 ppm | 1000 | PASS |
| 1.0 VAC @ 1.0 MHz    | 1.0  | 1.0  | 10 | 0.99899  | 1.00101  | VAC | 0.000 ppm | 1000 | PASS |
| 3.0 VAC @ 10 Hz      | 3.0  | 3.0  | 10 | 2.999745 | 3.000255 | VAC | 0.000 ppm | 75   | PASS |
| 3.0 VAC @ 40 Hz      | 3.0  | 3.0  | 10 | 2.99988  | 3.00012  | VAC | 0.000 ppm | 30   | PASS |
| 3.0 VAC @ 20.0 kHz   | 3.0  | 3.0  | 10 | 2.99976  | 3.00024  | VAC | 0.000 ppm | 70   | PASS |
| 3.0 VAC @ 50.0 kHz   | 3.0  | 3.0  | 10 | 2.99952  | 3.00048  | VAC | 0.000 ppm | 150  | PASS |
| 3.0 VAC @ 100.0 kHz  | 3.0  | 3.0  | 10 | 2.99907  | 3.00093  | VAC | 0.000 ppm | 300  | PASS |
| 3.0 VAC @ 500.0 kHz  | 3.0  | 3.0  | 10 | 2.99697  | 3.00303  | VAC | 0.000 ppm | 1000 | PASS |
| 3.0 VAC @ 1.0 MHz    | 3.0  | 3.0  | 10 | 2.99697  | 3.00303  | VAC | 0.000 ppm | 1000 | PASS |
| 10.0 VAC @ 10 Hz     | 10.0 | 11.0 | 10 | 9.99915  | 10.00085 | VAC | 0.1000 %  | 75   | FAIL |
| 10.0 VAC @ 40 Hz     | 10.0 | 10.0 | 10 | 9.9996   | 10.0004  | VAC | 0.000 ppm | 30   | PASS |
| 10.0 VAC @ 20.0 kHz  | 10.0 | 10.0 | 10 | 9.9992   | 10.0008  | VAC | 0.000 ppm | 70   | PASS |
| 10.0 VAC @ 50.0 kHz  | 10.0 | 10.0 | 10 | 9.9984   | 10.0016  | VAC | 0.000 ppm | 150  | PASS |
| 10.0 VAC @ 100.0 kHz | 10.0 | 10.0 | 10 | 9.9969   | 10.0031  | VAC | 0.000 ppm | 300  | PASS |
| 10.0 VAC @ 500.0 kHz | 10.0 | 10.0 | 10 | 9.9899   | 10.0101  | VAC | 0.000 ppm | 1000 | PASS |
| 10.0 VAC @ 1.0 MHz   | 10.0 | 10.0 | 10 | 9.9899   | 10.0101  | VAC | 0.000 ppm | 1000 | PASS |
| 30.0 VAC @ 10 Hz     | 30.0 | 31.0 | 10 | 29.99745 | 30.00255 | VAC | 0.0333 %  | 75   | FAIL |
| 30.0 VAC @ 40 Hz     | 30.0 | 30.0 | 10 | 29.9988  | 30.0012  | VAC | 0.000 ppm | 30   | PASS |
| 30.0 VAC @ 20.0 kHz  | 30.0 | 30.0 | 10 | 29.9976  | 30.0024  | VAC | 0.000 ppm | 70   | PASS |
| 30.0 VAC @ 50.0 kHz  | 30.0 | 30.0 | 10 | 29.9952  | 30.0048  | VAC | 0.000 ppm | 150  | PASS |

|                          |              |              |                    |             |             |     |                 |                    |               |
|--------------------------|--------------|--------------|--------------------|-------------|-------------|-----|-----------------|--------------------|---------------|
| 30.0 VAC @ 100.0 kHz     | 30.0         | 30.0         | 10                 | 29.9907     | 30.0093     | VAC | 0.000 ppm       | 300                | PASS          |
| 30.0 VAC @ 500.0 kHz     | 30.0         | 30.0         | 10                 | 29.9697     | 30.0303     | VAC | 0.000 ppm       | 1000               | PASS          |
| 30.0 VAC @ 1.0 MHz       | 30.0         | 30.0         | 10                 | 29.9697     | 30.0303     | VAC | 0.000 ppm       | 1000               | PASS          |
| 100.0 VAC @ 10 Hz        | 100.0        | 101.0        | 10                 | 99.9915     | 100.0085    | VAC | 0.0100 %        | 75                 | FAIL          |
| 100.0 VAC @ 40 Hz        | 100.0        | 100.0        | 10                 | 99.996      | 100.004     | VAC | 0.000 ppm       | 30                 | PASS          |
| 100.0 VAC @ 20.0 kHz     | 100.0        | 100.0        | 10                 | 99.992      | 100.008     | VAC | 0.000 ppm       | 70                 | PASS          |
| 100.0 VAC @ 50.0 kHz     | 100.0        | 100.0        | 10                 | 99.984      | 100.016     | VAC | 0.000 ppm       | 150                | PASS          |
| 120.0 VAC @ 100.0 kHz    | 120.0        | 100.0        | 10                 | 119.9628    | 120.0372    | VAC | -0.1667 %       | 300                | FAIL          |
| 120.0 VAC @ 200.0 kHz    | 120.0        | 100.0        | 10                 | 119.9628    | 120.0372    | VAC | -0.1667 %       | 300                | FAIL          |
| 300.0 VAC @ 10 Hz        | 300.0        | 300.1        | 10                 | 299.9745    | 300.0255    | VAC | 333.333 ppm     | 75                 | FAIL          |
| 300.0 VAC @ 40 Hz        | 300.0        | 300.0        | 10                 | 299.988     | 300.012     | VAC | 0.000 ppm       | 30                 | PASS          |
| 300.0 VAC @ 20.0 kHz     | 300.0        | 300.0        | 10                 | 299.976     | 300.024     | VAC | 0.000 ppm       | 70                 | PASS          |
| 300.0 VAC @ 50.0 kHz     | 300.0        | 300.0        | 10                 | 299.952     | 300.048     | VAC | 0.000 ppm       | 150                | PASS          |
| 1045.0 VAC @ 45 Hz       | 1045.0       | 1000.2       | 10                 | 1044.952975 | 1045.047025 | VAC | -0.0429 %       | 35                 | FAIL          |
| 1033.0 VAC @ 20.0 kHz    | 1033.0       | 1000.0       | 10                 | 1032.912195 | 1033.087805 | VAC | -0.0319 %       | 75                 | FAIL          |
| 1033.0 VAC @ 33.0 kHz    | 1033.0       | 1000.0       | 10                 | 1032.912195 | 1033.087805 | VAC | -0.0319 %       | 75                 | FAIL          |
| <b>Flatness test WBV</b> | <b>1V/3V</b> | <b>4920M</b> | <b>w/Guardband</b> |             |             |     | <b>Measured</b> | <b>1 year spec</b> | <b>Result</b> |
| 1.0 VAC @ 500.0 kHz      | 1.0          | 1.0          | 10                 | 0.999415    | 1.000585    | VAC | 0.000 ppm       | 575                | PASS          |
| 3.0 VAC @ 10 Hz          | 3.0          | 3.0          | 10                 | 2.99772     | 3.00228     | VAC | 0.000 ppm       | 750                | PASS          |
| 3.0 VAC @ 40 Hz          | 3.0          | 3.0          | 10                 | 2.99922     | 3.00078     | VAC | 0.000 ppm       | 250                | PASS          |
| 3.0 VAC @ 500.0 kHz      | 3.0          | 3.0          | 10                 | 2.99922     | 3.00078     | VAC | 0.000 ppm       | 250                | PASS          |
| 3.0 VAC @ 1.0 MHz        | 3.0          | 3.0          | 10                 | 2.99922     | 3.00078     | VAC | 0.000 ppm       | 250                | PASS          |
| 3.0 VAC @ 10.0 MHz       | 3.0          | 3.0          | 10                 | 2.99847     | 3.00153     | VAC | 0.000 ppm       | 500                | PASS          |
| 3.0 VAC @ 20.0 MHz       | 3.0          | 3.0          | 10                 | 2.99697     | 3.00303     | VAC | 0.000 ppm       | 1000               | PASS          |
| 3.0 VAC @                |              |              |                    |             |             |     | 0.000           |                    |               |

|                            |              |              |                    |          |          |     |                 |                    |               |
|----------------------------|--------------|--------------|--------------------|----------|----------|-----|-----------------|--------------------|---------------|
| 3.0 VAC @ 30.0 MHz         | 3.0          | 3.0          | 10                 | 2.99397  | 3.00603  | VAC | 0.000 ppm       | 2000               | PASS          |
| 3.0 VAC @ 40.0 MHz         | 3.0          | 3.0          | 10                 | 2.98797  | 3.01203  | VAC | 0.000 ppm       | 4000               | PASS          |
| 3.0 VAC @ 50.0 MHz         | 3.0          | 3.0          | 10                 | 2.98797  | 3.01203  | VAC | 0.000 ppm       | 4000               | PASS          |
| <b>Full range WBV Test</b> | <b>1V/3V</b> | <b>4920M</b> | <b>w/Guardband</b> |          |          |     | <b>Measured</b> | <b>1 year spec</b> | <b>Result</b> |
| 1.0 VAC @ 10 Hz            | 1.0          | 1.0          | 10                 | 0.998665 | 1.001335 | VAC | 0.000 ppm       | 1325               | PASS          |
| 1.0 VAC @ 1.0 kHz          | 1.0          | 1.0          | 10                 | 0.998665 | 1.001335 | VAC | 0.000 ppm       | 1325               | PASS          |
| 1.0 VAC @ 500.0 kHz        | 1.0          | 1.0          | 10                 | 0.998665 | 1.001335 | VAC | 0.000 ppm       | 1325               | PASS          |
| 3.0 VAC @ 10 Hz            | 3.0          | 3.0          | 10                 | 2.99697  | 3.00303  | VAC | 0.000 ppm       | 1000               | PASS          |
| 3.0 VAC @ 1.0 kHz          | 3.0          | 3.0          | 10                 | 2.99697  | 3.00303  | VAC | 0.000 ppm       | 1000               | PASS          |
| 3.0 VAC @ 500.0 kHz        | 3.0          | 3.0          | 10                 | 2.99697  | 3.00303  | VAC | 0.000 ppm       | 1000               | PASS          |
| 3.0 VAC @ 1.0 MHz          | 3.0          | 3.0          | 10                 | 2.99622  | 3.00378  | VAC | 0.000 ppm       | 1250               | PASS          |
| 3.0 VAC @ 10.0 MHz         | 3.0          | 3.0          | 10                 | 2.99547  | 3.00453  | VAC | 0.000 ppm       | 1500               | PASS          |
| 3.0 VAC @ 20.0 MHz         | 3.0          | 3.0          | 10                 | 2.99397  | 3.00603  | VAC | 0.000 ppm       | 2000               | PASS          |
| 3.0 VAC @ 30.0 MHz         | 3.0          | 3.0          | 10                 | 2.99097  | 3.00903  | VAC | 0.000 ppm       | 3000               | PASS          |
| 3.0 VAC @ 40.0 MHz         | 3.0          | 3.0          | 10                 | 2.98497  | 3.01503  | VAC | 0.000 ppm       | 5000               | PASS          |
| 3.0 VAC @ 50.0 MHz         | 3.0          | 3.0          | 10                 | 2.98497  | 3.01503  | VAC | 0.000 ppm       | 5000               | PASS          |

Lab temperature maintained +24°C ±2°C

Internal use only

Not validated

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