CPC MODEL 3772-CEN FINAL CHECKOUT AND TEST DATA LOG

3772160904	Serial Number
3-Nov-2017	Date

Inlet Flow

		Units	Low Limit	High Limit
1.012	Flow Value	L/min	0.95	1.05

Temperature and Pressure

		Units	Low Limit	High Limit
22	Room Temperature	°C	-	-
44	Room Relative Humidity	%	-	-
39	Saturator Temperature	°C	38.9	39.1
18	Condenser Temperature	°C	17.9	18.1
40	Optics Temperature	°C	39.8	40.2
27	Cabinet Temperature	°C	20	35
100	Room Ambient Pressure	kPa	-	-
101	Instrument Ambient Pressure	kPa	88	108
81	Pressure Drop Across Orifice	kPa	70	88
0.6	Pressure Drop Across Nozzle	kPa	0.2	1

Optics

		Units	Low Limit	High Limit
40	Laser Current Reading	mA	15	88

Concentration Comparison to Standard

		Units	Low Limit	High Limit
2469	Reference Unit Concentration (2000)	part/cc	-	-
2381	Unit Under Test Concentration (2000)	part/cc	-	-
-3.56	Unit Under Test Within 5% of Reference Unit	%	-5	5
5049	Reference Unit Concentration (5000)	part/cc	-	-
4893	Unit Under Test Concentration (5000)	part/cc	-	-
-3.09	Unit Under Test Within 5% of Reference Unit	%	-5	5

Zero Count Test

		Units	Low Limit	High Limit
0	Concentration Average Over 12 Hours	p/cc	0	0.001

Final Voltage Measurements

Pass	Analog Input and Output Voltages

M Griffin
Calibrated By

3-Nov-2017
Calibration Date

European Centre for Aerosol Calibration
Administrating Office
Leibniz Institute for Tropospheric Research
Permoserstr. 15
04318 Leipzig
Germany

Jürgen Spielvogel
Senior Global Product Manager –
Particle Instruments
TSI Incorporated
Aachen

ECAC Confirmation of Intercomparison/Calibration

We confirm that in the context of ACTRIS the following intercomparison were performed at the **World Calibration Center for Aerosol Physics (WCCAP)**:

Project number: **CPC-2016-5-17**

Intercomparison/Calibration date: 06/06/2016

☒ Instrument: *TSI CEN-CPC 3772, #3772160904*

☐ station: *(institute)*

The Intercomparison/Calibration has been

☒ **Successful**
☐ Not successful

☐ Another calibration is recommended (see calibration report).

Number of RWD: **2**

Leipzig, 31/03/2017

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PI/User[1]

[1] The document must be I) completed and signed by the access provider, II) countersigned by the project leader and III) sent to the ECAC office by the project PI by Email