


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 2200 Accredited to ISO/IEC 17025:2017	Uniper Technologies Limited	
	Issue No: 065 Issue date: 24 November 2021	
	Technology Centre Ratcliffe-on-Soar Nottingham NG11 0EE	Contact: Mrs Samantha Jackson Tel: +44 (0) 115 936 2900 Mobile: +44 (0) 7773 207 704 E-Mail: Samantha.Jackson@uniper.energy Website: www.uniper.energy
Testing performed by the Organisation at the locations specified below		

Locations covered by the organisation and their relevant activities

Laboratory locations

Location details	Activity	Location code
Address Technology Centre Ratcliffe-on-Soar Nottingham NG11 0EE Local contacts Mrs Samantha Jackson Tel: +44 (0) 115 936 2900 Mobile: +44 (0) 7773 207 704 Email: Samantha.Jackson@uniper.energy Website: www.uniper.energy	Support functions: Quality System Quality Audit Administration Sampling and Testing: Testing & Measurement Fuel technology Analytical services Physical Testing	A

Site activities performed away from the locations listed above:

Location details	Activity	Location code
Premises including commercial and industrial	Coal Stock Density Testing	B
Customer Sites requiring Stack emissions Testing	Stack Emissions Testing	C
Customer Sites requiring Continuous Emissions Monitoring Systems (CEMS) Functional Testing	On Site Testing	D



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOLID BIOFUELS and SOLID RECOVERED FUEL	<u>Chemical Tests</u>	Documented In-House Methods:	
	Air dried moisture	Method TOI_APA_FT_009 Based on BS EN ISO 14780	A
	Analysis moisture	Method TOI_APA_FT_002 Based on BS EN ISO 18134-3	A
	Equilibrium moisture	Method TOI_APA_FT_001 Based on BS EN ISO 18134-1	A
	Ash	Method TOI_APA_FT_003 Based on BS EN ISO 18122	A
	Loss on Ignition (By calculation)	Method TOI_APA_FT_002 & Method TOI_APA_FT_003	A
	Volatile matter	Method TOI_APA_FT_004 Based on BS EN ISO 18123	A
	Chlorine	TOI_APA_FT_008 using bomb combustion and potentiometric titration Based on BS EN ISO 16994	A
	Sulphur	TOI_APA_FT_006 using Leco analyser Based on BS EN ISO 16994	A
	Carbon, Hydrogen and Nitrogen	TOI_APA_FT_010 using LECO Analyser Based on BS EN 16948	A
Calorific value	TOI_APA_FT_005 using calorimeter Based on BS EN ISO 18125	A	



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SOLID BIOFUELS and SOLID RECOVERED FUEL (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods:	
	Aluminium Antimony Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Iron Lead Potassium Magnesium Manganese Mercury Molybdenum Sodium Selenium Nickel Vanadium Zinc	Methods TOI_APA_OE_0.0142, , using microwave digestion and ICP-OES, GFAAS and CVAAS (Hg)	A
	Aluminium Barium Chromium Cobalt Copper Iron Manganese Nickel Vanadium Zinc	Methods TOI_APA_OE_0.0114, TOI_APA_OE_0.0062 and TOI_APA_OE_0.0006 Based on BS EN15411:2011	A
	Cadmium Lead	Method TOI_APA_OE_0.0062 & TOI_APA_OE_0.0012 Based on BS EN15411:2011	A
	Antimony Arsenic	Methods TOI_APA_OE_0.0062, TOI_APA_OE_0.0034 and TOI_APA_OE_0.0106 using ICP-OES Based on BS EN 15411:2011	A



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SOLID BIOFUELS and SOLID RECOVERED FUEL (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods:	
	Mercury	Methods TOI_APA_OE_0.0034 and TOI_APA_OE_0.0083 Based on BS ISO 15237:2016	A
Solid Recovered Fuels	Aluminium Barium Calcium Iron Potassium Magnesium Manganese Sodium Phosphorus Silicon Sulphur Titanium	Methods TOI_APA_OE_0.0141, Conventional Aspiration ICP-OES Following ashing and total acid digestion	A
	Including Calculated Oxides: Al ₂ O ₃ , BaO, CaO, Fe ₂ O ₃ , K ₂ O, MgO, Mn ₃ O ₄ , Na ₂ O, P ₂ O ₅ , SO ₃ , SiO ₂ , TiO ₂		
Solid Fuels	<u>Physical Tests</u>	Documented In-House Methods:	
Coal	Density of Coal Stock	TOI_APA_CSD_003	B
SOLID FUELS	<u>Chemical Tests</u>	Documented In-House Methods	
Coal	Air dried moisture	Method TOI_APA_FT_009 Based on BS ISO 13909-4	A
	Equilibrium moisture	Method TOI_APA_FT_001 Based on ISO 589	A
	Analysis moisture	Method TOI_APA_FT_002 Based on BS ISO 11722. Conforms to DIN 51718:2002	A
	Ash	Method TOI_APA_FT_003 based on BS ISO 1171 Conforms to DIN 51719:1997	A



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SOLID FUELS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods	
Coal (cont'd)	Loss On Ignition (LOI) By calculation	Method TOI_APA_FT_002 & Method TOI_APA_FT_003	A
	Volatile Matter	Method TOI_APA_FT_004 based on BS ISO 562 Conforms to DIN 51720:2001	A
	Calorific Value	Method TOI_APA_FT_005 based on BS ISO 1928 Conforms to DIN 51900-1:2000 and DIN 51900-2:2003	A
	Sulphur	Method TOI_APA_FT_006 based on BS ISO 19579 Conforms to DIN 51724-3:2012	A
	Chlorine	Method TOI_APA_FT_008 Based on ASTM D4208	A
	Carbon Hydrogen Nitrogen	Method TOI_APA_FT_010 based on BS ISO 29541 Conforms to DIN 51732:2014	A
	Aluminium Barium Chromium Cobalt Copper Iron Manganese Nickel Vanadium Zinc	Methods TOI_APA_OE_0.0114, TOI_APA_OE_0.0062 & TOI_APA_OE_0.0006 Based on ASTM D6357-11	A
	Cadmium Lead	Methods TOI_APA_OE_0.0062 & TOI_APA_OE_0.0012 Based on BS ISO 15238:2016	A



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SOLID FUELS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods	
Coal (cont'd)	Antimony Arsenic Selenium	Methods TOI_APA_OE_0.0062, TOI_APA_OE_0.0034 and TOI_APA_OE_0.0106 Based on ASTM D6357-11	A
	Mercury	Methods TOI_APA_OE_0.0034 and TOI_APA_OE_0.0083 Based on BS ISO 15237:2016	A
	Fluoride	Methods TOI_APA_OE_0.0034 and TOI_APA_OE_0.0014 using Ion Selective Electrode Based on ASTM D3761-10	A
Petcoke	Air dried moisture	Method TOI_APA_FT_009 Based on BS ISO 13909-4	A
	Equilibrium moisture	Method TOI_APA_FT_001 Based on ISO 589	A
	Analysis moisture	Method TOI_APA_FT_002 Based on BS ISO 11722	A
	Ash	Method TOI_APA_FT_003 Based on BS ISO 1171	A
	Loss On Ignition (LOI) By calculation	Method TOI_APA_FT_002 & Method TOI_APA_FT_003	A
	Calorific Value	Method TOI_APA_FT_005 Based on BS ISO 1928	A



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SOLID FUELS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods	
Petcoke (cont'd)	Carbon Hydrogen Nitrogen	Method TOI_APA_FT_010 Based on BS ISO 29541	A
	Antimony Arsenic Selenium	Methods TOI_APA_OE_0.0062, TOI_APA_OE_0.0034 and TOI_APA_OE_0.0106 Based on ASTM D6357-11	A
	Aluminium Barium Chromium Cobalt Iron Manganese Nickel Vanadium Zinc	Methods TOI_APA_OE_0.0114, TOI_APA_OE_0.0062 & TOI_APA_OE_0.0006 Based on ASTM D6357-11	A
	Cadmium Lead	Methods TOI_APA_OE_0.0062 & TOI_APA_OE_0.0012 Based on BS ISO 15238:2016	A
	Mercury	Methods TOI_APA_OE_0.0034 and TOI_APA_OE_0.0083 Based on BS ISO 15237:2016	A
	Fluoride	Methods TOI_APA_OE_0.0034 and TOI_APA_OE_0.0014 using Ion Selective Electrode Based on ASTM D3761-10	A



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FUEL ASH, ALUMINOSILICATE and HIGH SILICATE MATERIALS	<u>Chemical Tests</u> Lead	Documented In-House Methods Microwave Digestion by method TOI_APA_OE_0.00136 Based on BS EN 13656:2002 and using Graphite Furnace AAS by in house method TOI_APA_OE_0.0012	A
	Antimony	Microwave Digestion by method TOI_APA_OE_0.00136 Based on BS EN 13656:2002 and using ICP-OES hydride method by in house method TOI_APA_OE_0.0106	A
	Calcium Chromium Copper Iron Manganese Molybdenum Potassium Sodium Nickel Thallium Titanium Vanadium Zinc Including Calculated Oxides: CaO, Fe ₂ O ₃ , K ₂ O, Na ₂ O, SiO ₂ TiO ₂	Microwave Digestion by method TOI_APA_OE_0.00136 Based on BS EN 13656:2002 and using ICP-OES by in house method TOI_APA_OE_0.0006	A
ENVIRONMENTAL SAMPLES	<u>Chemical Tests</u>	Documented In-House Methods	
Natural and waste waters	Antimony Arsenic Selenium	Method TOI_APA_OE_0.0106 using ICP-OES, hydride method Based on BS ISO17378-2:2014 & PD ISO/TS 17379-1:2013	A
	Cadmium Lead	Method TOI_APA_OE_0.0012 using Graphite Furnace AAS Based on BS EN ISO 5961:1995 & BS EN ISO 15586:2003	A



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ENVIRONMENTAL SAMPLES (cont'd)	<u>Chemical Tests (cont'd)</u>	Documented In-House Methods	
Natural and waste waters	Aluminium Barium Beryllium Calcium Chromium Cobalt Copper Iron Magnesium Manganese Molybdenum Nickel Titanium Vanadium Zinc	Method TOI_APA_OE_0.0006 using ICP-OES Based on BS EN ISO 11885:2009	A
	Mercury	Methods TOI_APA_OE_0.0037 and TOI_APA_OE_0.0083 using Flow Injection Mercury System Based on BS EN ISO 12846:2012	A
	Fluoride	Method TOI_APA_OE_0.0014 using Ion Selective Electrode Based on ISO10359-1:1992	A
Ground Water and Trade Effluent Waters	Dissolved Metals Arsenic Selenium Cadmium Lead Antimony Aluminium Vanadium Chromium Manganese Iron Cobalt Nickel Copper Zinc Molybdenum	Method TOI_APA_OE_0.0148 using ICP-MS Based on BS EN ISO 17294-2:2016	A



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ENVIRONMENTAL SAMPLES (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods	
Potable (non-regulatory), Groundwater, river water and waste waters	Chloride Phosphate Nitrate Sulphate	Method TOI_APA_OE_0.0013 based on BS EN ISO 10304-1:2009 Part 1 using Ion chromatography	A
Leachates	Mercury	Method TOI_APA_OE_0.0108 and TOI_APA_OE_0.0083 using Flow Injection Mercury System Based on BS EN 12457-2	A
Leachates	Fluoride	Method TOI_APA_OE_0.0108 and TOI_APA_OE_0.0014 using Ion Selective Electrode Based on BS EN 12457-2	A
Leachates	Antimony Arsenic Selenium	Method TOI_APA_OE_0.0108 and TOI_APA_OE_0.0106 using ICP-OES, hydride method Based on BS EN 12457-2	A
Leachates	Cadmium Lead	Method TOI_APA_OE_0.0108 and TOI_APA_OE_0.0012 using Graphite Furnace AAS Based on BS EN 12457-2	A
	Aluminium Barium Beryllium Calcium Chromium Cobalt Copper Iron Magnesium Manganese Molybdenum Nickel Titanium Vanadium Zinc	Method TOI_APA_OE_0.0108 and TOI_APA_OE_0.0006 using ICP OES. Based on BS EN 12457-2	A



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ENVIRONMENTAL SAMPLES (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods	
Ash	Aluminium Barium Chromium Cobalt Copper Iron Manganese Nickel Vanadium Zinc	Methods TOI_APA_OE_0.0114, TOI_APA_OE_0.0062 and TOI_APA_OE_0.0006 Based on ASTM D6357-11	A
	Cadmium Lead	Methods TOI_APA_OE_0.0062 and TOI_APA_OE_0.0012 using Graphite Furnace AAS	A
	Antimony Arsenic Selenium	Methods TOI_APA_OE_0.0062, TOI_APA_OE_0.0034 and TOI_APA_OE_0.0106 using ICP-OES, hydride method Based on ASTM D6357-11	A
Ash	Mercury	Methods TOI_APA_OE_0.0062 and TOI_APA_OE_0.0083 using Flow Injection Mercury System	A
Pollutants and Effluents: Atmospheric	<u>Physical Tests</u>	National, International and other recognised standards using documented in-house methods and procedures shown in brackets	
Filter papers and rinse solutions	Weight of particulate matter	BS ISO 9096:2003 (TOI_APT_001_1)	A



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ATMOSPHERIC POLLUTANTS AND EFFLUENTS - STACK GAS SAMPLES	<u>Physical Tests</u>	National, European, International and Environment Agency specified standards including MIDs and Documented In-House work instructions to meet the requirements of the Environment Agency (MCERTS) Performance Standard for laboratories carrying out testing of samples from stack emissions monitoring	
Filter papers and rinse solutions	Weight of particulate matter	BS EN 13284-1:2017 (TOI_APT_001_1)	A
	Weighing of Particulate Matter <10 micron (PM ₁₀ and PM _{2.5})	BS EN ISO 23210:2009 (TOI_APT_001_3)	A
	<u>Chemical Tests</u>		
Impinger Solutions	Hydrogen Fluoride	BS ISO 15713:2006 (TOI_APA_OE0.0143) using ISE	A
	Mercury	BS EN13211:2001 (TOI_APA_OE_0.0144) using CVAFS	A
	Ammonia	BS EN ISO 21877:2019 (TOI_APA_OE_0.0145) using IC	A
	Chloride as HCl	EN1911:2010 (TOI_APA_OE_0.0146) using IC	A



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ATMOSPHERIC POLLUTANTS AND EFFLUENTS - STACK GAS SAMPLES (cont'd) Impinger Solutions	<u>Chemical Tests (cont'd)</u> Metals: Arsenic Cadmium Chromium Cobalt Copper Manganese Nickel Lead Thallium Vanadium <u>On-Site Testing</u>	National, European, International and Environment Agency specified standards including MIDs and Documented In-House work instructions to meet the requirements of the Environment Agency (MCERTS) Performance Standard for laboratories carrying out testing of samples from stack emissions monitoring BS EN ISO 14385:2004 & BS EN ISO 17294-2:2004 (TOI_APA_O.0147) by ICP MS	
Stack Emissions - Continuous Emissions Monitoring Systems (CEMS) (excluding dust monitors and cross duct systems)	<u>Functional Testing:</u> Linearity Zero Span Response time Leak test	Documented in house procedure TOI_APT_005_1 & 005_2 to the requirements of BS EN 14181:2014 and Environment Agency MID 14181 (TGN 20 Annex A)	D



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TESTING of STACK EMISSIONS to ATMOSPHERE	<u>Sampling with subsequent analysis by an ISO/IEC 17025 Accredited Laboratory</u>	National, International and other recognised standards using documented In-House work instructions to meet the requirements of BS EN 15259:2007	
	Total Particulate Matter (20 to 1000 mg/m ³)	BS ISO 9096:2003 (TOI_APT_001_2)	C
	Total Particulate Matter	National, European, International and Environment Agency specified standards including MIDs and Documented In-House work instructions to meet the requirements of the Environment Agency (MCERTS) Performance Standard and BS EN 15259:2007	
		BS EN 13284-1:2017 (TOI_APT_001_2)	C
	PM ₁₀ and PM _{2.5}	BS EN ISO 23210:2009 (TOI_APT_001_3)	C
	Hydrogen Chloride	BS EN 1911:2010 (TOI_APT_003)	C
	Hydrogen fluoride	BS ISO 15713:2006 (TOI_APT_003)	C
	Sulphur dioxide	BS EN 14791:2017 (TOI_APT_003)	C
	Ammonia	BS EN ISO 21877:2019 (TOI_APT_003)	C
	Metals	BS EN 14385:2004 (TOI_APT_002_1)	C
	Mercury	BS EN 13211:2001 (TOI_APT_002_1)	C
	Dioxins and Furans	BS EN 1948-1:2006 (TOI_APT_002_1)	C
Dioxin-like Polychlorinated Biphenyls (PCBs)	BS EN 1948-4:2010 (TOI_APT_002_1)	C	



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TESTING of STACK EMISSIONS to ATMOSPHERE (cont'd)	<u>Sampling with subsequent analysis by an ISO/IEC 17025 Accredited Laboratory (cont'd)</u>	National, European, International and Environment Agency specified standards including MIDs and Documented In-House work instructions to meet the requirements of the Environment Agency (MCERTS) Performance Standard and BS EN 15259:2007	
	Polycyclic Aromatic Hydrocarbons (PAHs)	BS ISO 11338-1:2003 (TOI_APT_002_1)	C
	<u>Sampling and On-Site Analysis</u>		
	Water Vapour	BS EN 14790:2017 (TOI_APT_003)	C
	<u>Sampling and On-Line Analysis</u>		
	Pressure, Temperature and Velocity (point velocity method) for: <ul style="list-style-type: none"> Periodic Compliance Monitoring 	BS EN ISO 16911-1:2013 & EA MID 16911-1 (Method TOI_APT_006_1) - using differential pressure device (pitot tube) method Procedure to meet requirements of PD CEN TR 17078:2017 Measurement Objective 1	C
	Carbon Dioxide*	ISO 12039:2001 (TOI_APT_004_1 - NDIR analyser)	C
	Oxygen*	BS EN 14789:2017 (TOI_APT_004_1 - Paramagnetic analyser) (TOI_APT_004_1 - Validated Zirconium cell analyser)	C
Carbon Monoxide*	BS EN 15058:2017 (TOI_APT_004_1 - NDIR analyser)	C	
Sulphuric Acid including Sulphuric Acid Mist and Sulphur Trioxide	US EPA Method 8 (TOI_APT_002_2)	C	



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TESTING of STACK EMISSIONS to ATMOSPHERE (cont'd)	<u>Sampling and On-Line Analysis</u> (cont'd)	National, European, International and Environment Agency specified standards including MIDs and Documented In-House work instructions to meet the requirements of the Environment Agency (MCERTS) Performance Standard and BS EN 15259:2007	
	Oxides of Nitrogen*	BS EN 14792:2017 (TOI_APT_004_1 - Chemiluminescence analyser) (TOI_APT_004_1 - Validated NDUV analyser) (TOI_APT_004_1 - Validated NDIR analyser)	C
	Nitrous Oxide*	BS ISO 21258:2010 (TOI_APT_004_1 - NDIR analyser)	C
	Sulphur Dioxide*	PD CEN/TS 17021:2017 (TOI_APT_004_1 - NDIR analyser) (TOI_APT_004_1 - NDUV analyser)	C
	Total Gaseous Organic Carbon (TOC/VOC)* (0 to 1000 mg/m ³)	BS EN 12619:2013 (TOI_APT_004_2 - FID analyser)	C
Stack Emissions - Continuous Emissions Monitoring Systems (CEMS)	QAL 2 and the Annual Surveillance Test (AST) for CEMS	Documented in house procedure TOI_APT_005_3 to meet the requirements of BS EN 14181:2014, Environment Agency MID 14181 (TGN M20 Annex A) and other requirements of the Environment Agency (MCERTS) Performance Standard and BS EN 15259:2007	A, C



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Testing of Stack Emissions to Atmosphere	<u>Sampling and On-Line Analysis</u>	National, European, International and Environment Agency specified standards and Documented In-House work instructions to meet the requirements of the Environment Agency (MCERTS) Performance Standard and BS EN 15259:2007	
	Pressure, Temperature and Velocity (point velocity method) for: <ul style="list-style-type: none"> Periodic Compliance Monitoring Calibration of Continuous AMS To meet requirements of Emissions Trading Schemes 	BS EN ISO 16911-1:2013 (Method TOI_APT_006_1) - using differential pressure device (pitot tube) method Procedure to meet requirements of PD CEN TR 17078:2017 Measurement Objectives 1, 2 and 3	C
	Temperature, Average Velocity and Volume Flow Rate (tracer gas dilution method) for: <ul style="list-style-type: none"> Calibration of Continuous AMS To meet requirements of Emissions Trading Schemes 	BS EN 16911-1:2013 (Annex C) Tracer Injection and temperature measurement (TOI_APT_006_2) Procedure to meet requirements of PD CEN TR 17078:2017 Measurement Objectives 2 and 3	C
	Ammonia*	CEN/TS17337:2019 (TOI_APT_004-3 – Validated FTIR Analyser)	C
	Carbon Dioxide*	CEN/TS17337:2019 (TOI_APT_004-3 – Validated FTIR Analyser)	C
	Carbon Monoxide*	CEN/TS17337:2019 (TOI_APT_004-3 – Validated FTIR Analyser)	C
	Hydrogen Chloride*	CEN/TS17337:2019 (TOI_APT_004-3 – Validated FTIR Analyser)	C



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Uniper Technologies Limited
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Testing performed by the Organisation at the locations specified

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Testing of Stack Emissions To Atmosphere	Sampling and On-Line Analysis	National, European, International and Environment Agency specified standards including MIDs and documented In-House work instructions to meet the requirements of the Environment Agency (MCERTS) Performance Standard and BS EN 15259:2007	
	Methane*	CEN/TS17337:2019 (TOI_APT_004-3 – Validated FTIR Analyser)	C
	Oxides of Nitrogen (NOx)*	CEN/TS17337:2019 (TOI_APT_004-3 – Validated FTIR Analyser)	C
	Sulphur Dioxide*	CEN/TS17337:2019 (TOI_APT_004-3 – Validated FTIR Analyser)	C
	Water Vapour	CEN/TS17337:2019 (TOI_APT_004-3 – Validated FTIR Analyser)	C
END			

* - The scale range of the analyser used for this test must be that detailed on its current MCERTS certificate or a range validated by the organisation to meet MCERTS requirements.