



4 - LOG SHEET

Client:	University of Vienna		
Quotation Number:	19066	Date:	05/09/2025
Job Number:	IN1374	Date:	07/11/2025

Date	Action Taken	By Whom
10/9/25	OLLI + MARK STARTED BUILDING	PH
2-3/10/25	System pumping down Crimps + flows set + Gases connected New tubes fitted + water + CO ₂ trap Filament conditioned - trap not firing - source removed, system vented Trap wire had come off, replaced + source fitted back on the flight tube + system pumping down	TI
6/10/25	All CAL controllers respond fine, temps ramped up to 1000°C by 65°C all OK Pressure test fails, Leak found at the back of V13 - fixed System passes pressure test Filament conditioned, giving very high emissions (x8 trap). Ventrel, filament checked - bent found, filament replaced Instrument pumped up	TI
7/10/25	Vacuum on arrival 2.3E-08 Filament conditioned successfully	TI
13/10/25	N & C Peak shapes found, Blanks at 2.5E-10 But emissions 5x trap & higher once again Flight tube baked out & filament changed & conditioned	HC
16/10/25	Emissions still high so source was changed. New source has emissions just under 5x trap Precision run completed, CO ₂ Pass 0.09% but N ₂ Fail & slightly high background Tightening bottom of reduction tube/furnace reduced background slightly. Autosampler swapped for new since the wheel was misaligned so samples were not dropping on time	HC
16/10/25	Dual precision passed CO ₂ = 0.05%, N ₂ = 0.03%. despite autosampler stopping turning mid run. Both autosamplers realigned by adjusting cog & original autosampler returned	HC



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Date	Action Taken	By Whom
27/28/12/25	Proag from testrig placed on flight tube Magret moment tuning Good CO ₂ + N ₂ Peak shapes + stabilities	T1
	PreC: CO ₂ : 0.03 % N ₂ : 0.25 % Lin: CO ₂ : 0.64 % N ₂ : 0.38 %	
	GC temp lowered to 60°C to allow better separation CO ₂ peak tuning Specs passed.	
	PreC: CO ₂ : 0.05 % N ₂ : 0.10 % Lin: CO ₂ : 0.49 % N ₂ : 0.29 %	
29-31/10/25	Original p-mag returned and placed on new markings Specs passed:	T1
	PreC: CO ₂ : 0.02 % N ₂ : 0.17 % Lin: CO ₂ : 0.37 % N ₂ : 0.33 %	
13/11/25	System powered off + getting ready for packing	T1



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[illegible]



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5 - FAULT REPORTING

[illegible]



Fault reporting - 5

Client:	University of Vienna		
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5 - FAULT REPORTING

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Quotation Number:	19066	Date:	05/09/2025
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[illegible]

5 - FAULT REPORTING

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6 - TEST / ACCEPTANCE SPECIFICATION

Customer:	University of Vienna		
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HS20-22			
Reference Gas Precision (n=5) x5 Ref gas pulses of 5 seconds to be used.			
¹³ C	(CO ₂)	0.06	
¹⁵ N		0.06	
¹⁸ O	(CO ₂)	0.06	
³⁴ S	(SO ₂)	0.1	
² H		0.4	

Reference Gas Linearity ref gas pulses ranging from 1-second trough to 10 seconds			
¹³ C	≤0.02‰/nA STD Deviation <0.30		
¹⁵ N	≤0.02‰/nA STD Deviation <0.30		

IsoEarth & PyroEarth					
Combustion (n=5) (For NCS use 0.3mg of Cystine) (Pyrolysis use silver caps) 0.4mg of Cystine for 18O and 4 mg of Cystine for H2					
¹³ C	100 µg C	0.1		10 µg C	0.8
¹⁵ N	100 µg N	0.15		10 µg N	1.5
³⁴ S	25 µg S	0.3		10 µg S	1.0
Dual	400 µg C	0.1		100 µg N	0.15
¹⁸ O	100 µg or 1 µl water	0.3			
² H	200 µg H or 1 µl water	1.0			



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Test acceptance - 6

6 - TEST / ACCEPTANCE SPECIFICATION

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EArth

Solid specs to be completed using 2mg methionine calibration against 1,2,3mg (n=3) cystine. Combustion (n=5)

		Accuracy (avg)	Precision (std dev)
¹³ C		+/- 0.4%	0.2
¹⁵ N		+/- 0.4%	0.2
² H		+/- 0.4%	0.2
³⁴ S		+/- 0.4%	0.2
¹⁸ O	Pyrolysis	+/- 0.4%	0.2

Liquid injections n=5 using 5µl methanol calibrated against 2,4,6µl injections of ethanol

		Accuracy (avg)	Precision (std dev)
¹⁸ O	Pyrolysis	+/- 0.4%	0.2

Integra2

Specs to be completed using AS beet mix 400C/100N for precision & 250C/100N for linearity

¹³ C	100 µg C	0.2	
¹⁵ N	100 µg N	0.3	
Dual	100 µg N & 400 µg C	0.4 & 0.15	0.17 & 0.02 ✓
³⁴ S	30 µg S	0.5	
¹⁸ O	100 µg O	0.5	
Dual	100 µg N & 250 µg C	0.5	0.38 & 0.37 ✓

HT-EA (Pyrolysis use silver caps)

0.4mg of Cystine for ¹⁸O and 4 mg of Cystine for H₂

Pyrolysis (n=5)

¹⁸ O	100 µg O or 1 µl water	0.3	
² H	200 µg H or 1 µl water	1.0	

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Aqua, μ Carbs & GasBox					
Equilibrations (n=5)					
^{18}O	0.2 ml water	0.1			
^2H	0.2 ml water	2.0			
Carbonates (n=5)					
^{13}C	100 μg CaCO_3	0.08			
^{18}O	100 μg CaCO_3	0.1			
Gas Analysis (n=5)					
^{13}C	5% CO_2	0.1		Air CO_2	0.1
^{18}O	5% CO_2	0.1		Air CO_2	0.2
^2H	0.5 ml H_2	1.5			
^{15}N	0.5 ml N_2	0.1		100 ppm N_2O	0.5
^{13}C	Breath (12 ml)	0.1			
DIC (n=5)					
^{13}C	15ppm (0.5ml)	0.15			

LC-I					
(n=5)					
^{13}C		0.2			

GC Orchid					
Combustion (n=3 for each analyte)					
^{13}C	3 Alkanes	100 ng C	0.2	10 ng C	0.5
^{15}N	2 Amines	100 ng N	0.5	14 ng N	1.5

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Pyrolysis (n=3 for each analyte)							
² H	3 Alkanes	250 ng H	3.0		25 ng H	10.0	
¹⁸ O	3 FAMES	100 ng O	0.5		20 ng O	2.0	
Water pyrolysis (n=5)							
² H	0.1 µl water	3.0					
¹⁸ O	0.1 µl water	0.4					

CryoRange							
(n=5)							
¹³ C	Air CO ₂ (12ml)	0.1		Air CH ₄ (125ml)	0.2		
¹⁵ N	Air N ₂ (1ml)	0.1		Air N ₂ O (125ml)	0.4		
¹⁸ O	Air CO ₂ (12ml)	0.15		Air N ₂ O (125ml)	0.7		
¹⁸ O	Air O ₂ (1ml)	0.1					
² H	Air CH ₄	3.0					
¹³ C	TOC (5ppm)	0.4					
¹³ C	Laser						

Geo2							
Internal precision (no change overs)							
² H	200 Bar µl	0.15					
¹³ C	100 Bar µl	0.01					
¹⁵ N	100 Bar µl	0.01					
¹⁸ O	100 Bar µl	0.015					
³⁴ S	100 Bar µl	0.015					
Single cold finger volumes (10 change overs)							

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¹³ C	20 Bar µl	0.01	
¹⁸ O	20 Bar µl	0.015	
¹³ C	3 Bar µl	0.02	
¹⁸ O	3 Bar µl	0.03	
CAPS (n=5)			
¹³ C	50 µg CaCO ₃	0.03	
¹⁸ O	50 µg CaCO ₃	0.06	
WES (n=5)			
² H		1.0	
¹⁸ O		0.05	
Manifold (10 tubes)			
² H		0.5	
¹³ C		0.02	
¹⁵ N		0.02	
¹⁸ O		0.03	
³⁴ S		0.03	

Special tests

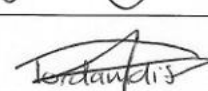


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Test acceptance - 6

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Sales Signature: 	Date: 10/11/25
Test Signature: 	Date: 13/11/2025

7: ASSEMBLY AND TEST RECORD

Client:	University of Vienna		
Quotation Number:	19066	Date:	05/09/2025
Job Number:	IN1374	Date:	07/11/2025

PRODUCT:

Integra 2

SERIAL NUMBER:

20802/4-2025/1374

 ASSEMBLED:
 (Name)

M. J.

Date:

1/10/25

 PRE-TEST
 INSPECTION:
 (Production name)

[Signature]

Date:

2/10/25

 PRE-TEST
 INSPECTION:
 (Test name)

[Signature]

Date:

2/10/25

 SYSTEM TEST:
 (Name)

[Signature]

Date:

13/11/25

 PRE-DESPATCH
 INSPECTION:
 (Name)

[Signature]

Date:

4/12/25

P.A.T. Test results

 In compliance with Low Voltage directive 73/23/EEC
 To Low Voltage standard EN61010 – 1:1993

Earth Continuity

0.084
 Ω

Insulation

>300

 M Ω

Earth Leakage Current

1.30

mA. @

0.05

kVA.

Tested by:

HR

Date:

1/10/25

Works Order Picking List

Date: 01/09/2026

Time: 14:17:04

Works Order: WO02523
Stock Code: 20802/4
Description: Integra2
Qty Required: 1.00 Each
Qty Outstanding: 0.00
Plan Period: WK37/2025
Due Date: 30/10/2025

Stock Code / Description **Qty to Pick** **Unit** **Location** **Qty Picked / By**
Manufacturing Instructions: IN1374 - Vienna STOCK 14

9099/1 Instrument Packing	0.00	Each		
70401-1 Integra2 start up consumables kit (inc. with Integra2)	0.00	Each	@	
70101/13 Standard Head Amp Cable	0.00	Each	B-H1	
SI2645 Integra2 Artwork	0.00	Each	C	
SI0607 Anti Surge T HBC Min Fuse 6.3A 5x20mm	0.00	Each	Carousel 1 M-1	
SI1052 3 Way MOLEX Clip	0.00	Each	Carousel 1 M-1	
SI1255 M5 Plug	0.00	Each	Carousel 1 M-1	
SI1548 4A Fuse, Anti Surge 5x20mm	0.00	Each	Carousel 1 M-1	
SI1681 10A Fuse, Anti surge, 5x20mm	0.00	Each	Carousel 1 M-1	
SI3248 G 1/8" x G 1/4" M/F Stainless steel Reducing Adapter	0.00	Each	Carousel 1 N-1	
SI0701 1/4" PTFE Ferrules Pk/1	0.00	Each	Carousel 1 P-1	
SI0708 SSUE 16/16 Stainless Steel Union Pk/1	0.00	Each	Carousel 1 P-1	
SI0762 PSR16-16 PTFE Sealing Rings Pk/20	0.00	Each	Carousel 1 P-1	
SI1900 Dowty Seal - M5	0.00	Each	Carousel 1 P-1	
SI2244 Male Elbow 4mm to M5	0.00	Each	Carousel 1 P-1	
SI1244 Seal Kit	0.00	Each	Carousel 1 P-2	

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Stock Code: 20802/4
Description: Integra2
Qty Required: 1.00 Each
Qty Outstanding: 0.00
Plan Period: WK37/2025
Due Date: 30/10/2025

<u>Stock Code / Description</u>	<u>Qty to Pick</u>	<u>Unit</u>	<u>Location</u>	<u>Qty Picked / By</u>
SI1594 15 Way D Plate	0.00	Each	Carousel 1 P-2	
SI1595 37 Way D Plate	0.00	Each	Carousel 1 P-2	
SI0703 1/8-1/16" PTFE Reducing Ferrule Pk/1	0.00	Each	Carousel 1 P-3	
SI0196 Reducing Union 1/4 x 1/16 SS	0.00	Each	Carousel 1 Q-1	
SI0197 Reducing Union 3/16 OD x 1/16 OD SS	0.00	Each	Carousel 1 Q-1	
SI1167 Reducing Union 1/4-1/8	0.00	Each	Carousel 1 Q-1	
SI1168 1/4 Nut Knurled (brass)	0.00	Each	Carousel 1 Q-1	
SI1349 Pneumatic Bulkhead Check Valve - 4mm	0.00	Each	Carousel 1 Q-1	
SI1603 Bulkhead Fitting 4mm - 1/8 (RS 7714923)	0.00	Each	Carousel 1 Q-1	
SI1604 Male Connector 1/8 UNION 1/8	0.00	Each	Carousel 1 Q-1	
SI2471 Bulkhead Retainer 1/8"	0.00	Each	Carousel 1 Q-1	
SI0022 Capillary Crimp Parts A & B	0.00	Each	Carousel 1 Q-2	
SI0198 Tee Union 1/16 SS	0.00	Each	Carousel 1 Q-2	
SI0199 Male Connector 1/16 OD x 1/8 NPTM SS	0.00	Each	Carousel 1 Q-2	
SI0204 Bulkhead Union 1/16 SS	0.00	Each	Carousel 1 Q-2	
SI0205 Bulkhead Union 1/8 SS	0.00	Each	Carousel 1 Q-2	
SI0048 Magnet Adjusting Screw	0.00	Each	Carousel 1 Q-3	

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<u>Stock Code / Description</u>	<u>Qty to Pick</u>	<u>Unit</u>	<u>Location</u>	<u>Qty Picked / By</u>
SI0049 Big Magnet Adjusting Foot	0.00	Each	Carousel 1 Q-3	
SI0050 Magnet Foot	0.00	Each	Carousel 1 Q-3	
SI1899 1/16 x M5 Fitting	0.00	Each	Carousel 1 Q-3	
SI3133 3/16 OD X M5-0.8 MALE CONNECTOR SS	0.00	Each	Carousel 1 Q-3	
SI1196 Female NiPt D screwlock assembly, 8mm	0.00	Each	Carousel A-1	
SI1482 34 Way IDC Bump Polarised Socket, 1A	0.00	Each	Carousel A-3	
SI0086 Ref Gas Bracket Mounting Bracket slot	0.00	Each	Carousel B-1	
SI0794 Female NiPt D Screwlock assembly, 13mm	0.00	Each	Carousel B-1	
SI1004 Right-Angled Bracket 25mm	0.00	Each	Carousel B-1	
SI0631 9 Way D Hood	0.00	Each	Carousel B-3	
SI0632 15 Way D Hood	0.00	Each	Carousel B-3	
SI0900 25 Way D Hood	0.00	Each	Carousel B-3	
SI0524 3 Way Socket Housing, 2.54mm Pitch	0.00	Each	Carousel C-1	
SI0385 25 Way Machine Cont Straight D Skt, 750Vac	0.00	Each	Carousel D-3	
SI0388 9 Way Machine Cont Straight D Skt, 750Vac	0.00	Each	Carousel D-3	
SI0570 15 way Solder Contact ZD skt 5A 400 Vac	0.00	Each	Carousel D-3	
SI1795 37 Way IDC D Plug - Metal	0.00	Each	Carousel D-3	

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SI2602 Wave Integra Cabinet Rev003	0.00	Each	Container	
SC0030 Thermocouple K-Type 1.5mm Pk/1 (Send with 2 pin/2 Bullet Crimps)	0.00	Each	P-A2	
SC2495 Scrubber Tube 220mm	0.00	Each	P-B3	
SC0085 Cap Kit for Threaded Joints Caps & PTFE Backed Sil Seals pk2	0.00	Each	P-B4	
SC0082-I GC Column for INTEGRA-CN Pk/1 (J shape)	0.00	Each	PD-3	
20101 Standard Source Assy	0.00	Each	Stores	
SI3247 Pressure Sensor Industrial 0-100 PSI	0.00	Each	Stores - D2	
SI0008 GSL Top Hat Adaptor	0.00	Each	Stores A	
SI0076 Tube Coupling	0.00	Each	Stores A	
SI3271 Straight IEC C13 Socket to Straight IEC C14	0.00	Each	Stores A-1	
SI0847 IEC Cord - Socket	0.00	Each	Stores A-2	
SI0374 Terminal Block Section	0.00	Each	Stores A-3	
SI0375 Terminal Block End Plate	0.00	Each	Stores A-3	
SI0620 IEC Insulated Cover	0.00	Each	Stores A-4	
SI1328 Mains Filter	0.00	Each	Stores A-4	
SI1491 IEC Insulation Cover	0.00	Each	Stores A-4	
SI0378 Blk Re-wireable Straight Plug, 10A 250Vac	0.00	Each	Stores A-5	

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<u>Stock Code / Description</u>	<u>Qty to Pick</u>	<u>Unit</u>	<u>Location</u>	<u>Qty Picked / By</u>
SI1110 Plug & Socket	0.00	Each	Stores A-5	
SI1344 IEC Connector Clamp Kit	0.00	Each	Stores A-5	
SI1797 Fuse Holder Insulation Cover	0.00	Each	Stores A-5	
SI2304 Screwdriver bayonetcap fuseholder 5x20mm	0.00	Each	Stores A-5	
SI0630 80mm Fan Guard	0.00	Each	Stores A-6	
SI0793 80mm DC Fan	0.00	Each	Stores A-6	
SI1418 80mm Fan Screen Filter	0.00	Each	Stores A-6	
SI0329 Flatpack Fan (for GSL)	0.00	Each	Stores A-7	
SI0373 34 Way IDC Terminal Block	0.00	Each	Stores A-8	
SI0508 24V PSU - Add Finger Cover	0.00	Each	Stores A-8	
SI0534 3307 Telescopic Slide 457mm L 483mm	0.00	Each	Stores A-8	
SI1236 Levelling Foot - M10x38mm	0.00	Each	Stores A-8	
SI0112 NW10/16 Clamping Ring Stainless Steel - Edwards	0.00	Each	Stores B-1	
SI0117 NW16 Polymer Centring Ring N - Edwards	0.00	Each	Stores B-1	
SI2289 Oil Mist Eliminator **requires SI2294**	0.00	Each	Stores B-1	
SI2294 NW10 x 3/8" Bsp Adapter	0.00	Each	Stores B-1	
SI0346 SPDT plug-in power Relay - 10A 24V DC coil	0.00	Each	Stores B-2	

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Qty Required: 1.00 Each
Qty Outstanding: 0.00
Plan Period: WK37/2025
Due Date: 30/10/2025

<u>Stock Code / Description</u>	<u>Qty to Pick</u>	<u>Unit</u>	<u>Location</u>	<u>Qty Picked / By</u>
SI0347 SPCO Relay Base	0.00	Each	Stores B-2	
SI0356 DPCO Relay, 10A 230V AC coil	0.00	Each	Stores B-2	
SI0376 DPCO Relay Base	0.00	Each	Stores B-2	
SI0345 SSR Safety Cover	0.00	Each	Stores B-3	
SI0559 Solid State Relay 10A rms 24-280 Vac	0.00	Each	Stores B-3	
SI0344 2P red illuminated round rocker switch,10A	0.00	Each	Stores B-5	
SI1111 IEC Rocker Switch	0.00	Each	Stores B-5	
SI2411 KVT 20 Split Cable Gland (inc locknut)	0.00	Each	Stores B-6	
SI2412 KT 5 insert	0.00	Each	Stores B-6	
SI1246 2-Station Manifold - M5	0.00	Each	Stores B-8	
SI0366 Flow Meter PMFc3100V	0.00	Each	Stores D-2	
SI1241 3 Way Solenoid Valve	0.00	Each	Stores D-3	
SI1242 2 Way Solenoid Valve	0.00	Each	Stores D-3	
SI1245 SOL Cable	0.00	Each	Stores D-3	
SI1251 Autosampler Solenoid Valve	0.00	Each	Stores D-3	
SI1821 3 Port valve	0.00	Each	Stores D-3	
SI0697 MOVPT-S-1-50 Pneumatic Valve (EF3240-R1-001)	0.00	Each	Stores D-4	

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SI0807 Thermostat	0.00	Each	Stores D-5	
SI2307 60 psi Regulator	0.00	Each	Stores D-5	
SI0731 Ceramic Terminal Covers	0.00	Each	Stores D-6	
SI1815 Strip Heater 150W 250V	0.00	Each	Stores D-6	
SI1710 Temperature Controller - CAL3300	0.00	Each	Stores D-7	
SI0581 Toroidal Transformer 1000VA 2x55V o/p	0.00	Each	Stores D8	
SI0275 Ceramic Spacer Set	0.00	Each	Stores D-8	
SI1478 Double Flange	0.00	Each	Stores E-8	
SI1689 Threaded Adaptor for GSL/INTEGRA. (NO COUPLING NUT)	0.00	Each	Stores E-8	
SI1690 Coupling Nut for SI1689 & SI0043	0.00	Each	Stores E-8	
SI0006 20-20 Single Pump Flight Tube	0.00	Each	Stores G	
SI0125 NW16 Flexible Pipeline 1000mm S/S	0.00	Each	Stores G	
SI2301 NW16 Flexible Pipeline 500mm S/S	0.00	Each	Stores G	
SI2662 nEXT85 ABCA KIT	0.00	Each	Stores G	
10202-S Sercon 50 Position Autosampler Assy	0.00	Each	Stores I-1	
SI0961 System Controller - Electronics Box	0.00	Each	Stores I3	
SI2409 EA-ST Furnace	0.00	Each	Stores I-3	

Works Order Picking List

Date: 01/09/2026

Time: 14:17:04

Works Order: WO02523
Stock Code: 20802/4
Description: Integra2
Qty Required: 1.00 Each
Qty Outstanding: 0.00
Plan Period: WK37/2025
Due Date: 30/10/2025

<u>Stock Code / Description</u>	<u>Qty to Pick</u>	<u>Unit</u>	<u>Location</u>	<u>Qty Picked / By</u>
SI2391 Dell 24" Monitor - P2425H	0.00	Each	Stores J1	
SI2918 Dell Slim Intel Core I3 14100 Processor	0.00	Each	Stores J1	
SI0101 Columax Magnet 4500 Gauss	0.00	Each	Stores J-2	
SI0895 Blue Cat5e UTP patch lead, 2m	0.00	Each	Stores J-3	
SI2288 Internal USB 4.5m	0.00	Each	Stores J-3	
70101/12 Source Cable	0.00	Each	Stores K-1	
41903 Three channel 100M/5G/5G amp assy (Use SI2526)	0.00	Each	Stores M2	
20301 Standard Collector Assy	0.00	Each	Stores M4	
SI2512 3 Metre UK 13 amp Fused plug to IEC C 13	0.00	Each	Stores NCB	
70201-2 Integra2 analyser spares kit - Included	0.00	Each	Z	
70501-3 Sample Preparation Kit	0.00	Each	Z@	

All items picked and packed as marked:

Date: ____/____/____ Signed: _____

Stock Allocated, Issued, Completed:

Date: ____/____/____ Signed: _____



8 - Serial Numbers Record Document

Client:	University of Vienna		
Quotation Number:	19066	Date:	05/09/2025
Job Number:	IN1374	Date:	07/11/2025

Units	S/N
MS/ABCA	
Integra 2	20802/4-2025/1374
Prep Unit 1	
Prep Unit 2/Misc	
Electronics Upgrade	
CETAC	
Gas Box	
Autosampler	42709
BCR	
Dual Heater Block	

Pump Kit and Optics	S/N
Turbo pump S	250219311
Turbo pump A	
Rotary Pump	250236010
Voltage	110 / 240
Gauge S	250097516
Gauge A	
Source	20101-265
Collector 1	20301-176
Collector 2	
Magnet	21-10-246

Parts	S/N
Fan PSU	
24V PSU	

PCBs	S/N
Electronics Box	20250011
Prep PCB	
VFC PCB	
Watchdog PCB	
Head Amp PCB 1	25012
Head Amp PCB 2	
Electromagnet RP	

Furnaces	S/N
Combustion	
Reduction	
HT-EA	
GC Oven	
Furnace 1	
Furnace 2	

PC	S/N
PC	
Monitor	
Printer	

Key

Pumps:	E: Edwards P: Pfeiffer
Furnaces:	V/S: Vecstar E: Elite
Magnet:	E: Electromagnet S: Standard
Turbos & Gauges:	S: Source A: Analyser
Collectors:	Std: Standard S: Sulphur HD: Hydrogen Deuterium

Additional System Info:

11 – Installation Report

Client:	University of Vienna		
Quotation Number:	19066	Date:	05/09/2025
Job Number:	IN1374	Date:	07/11/2025

Contact:	Katerina Douka		
Date of Visit:	08/06/2026	No. of Days:	5
Engineer:	Thomas Iordanidis		

Details of visit:

Day 1 (08/06/2026):

- Arrived on site
- Boxes in basement – no obvious damage, transferred to installation room successfully, unpacked and system placed on bench top – all okay
- No damage observed on system or any components
- Gas company here to finish gas installation – wrong fittings on gauges, used my own connections – all okay
- Compressed air line with wrong gauge fittings – gas company brought back a 4mm connector and I modified the back of the system to a 4mm fitting straight to the compressed air inlet – all okay
- PC set up, System mains & electronics turned on – all COMs respond fine and software operates normally – good readbacks
- All CAL3300 controllers read room temperature and seem to be responding fine – all okay
- Autosampler and connections fitted with new PTFE ferrules – all okay
- Edwards rotary pump unpacked & demonstrated to customer how to fill it up with Edwards-15 oil and fitted at the back of the system – all okay
- Checked continuity across filament pins – all okay and no continuity elsewhere
- Pumps turned on and reached 93k relatively quickly with system pumping down fine
- Turned on gases from cylinders and connectors – leak on helium gauge, more PTFE tape used, all gas connections leak checked using SNOOP – all okay
- Purged lines before connecting to the back of the system
- Unpacked all consumables
- Made Combustion & Reduction tubes and water trap with customer, fitted and leak checked – all okay – no magnesium perchlorate was found in the consumables purchased, used a bottle from my stock
- Turned gases off overnight to ensure there are no leaks and left furnaces at room temperature
- End of day vacuum $\sim 1.5\text{E}-7$

Day 2 (09/06/2026):

- Vacuum on arrival $\sim 2.8\text{E}-8$ – all okay
- Filament turned on – fired okay with good emissions of $\sim 200\mu\text{A}$ at trap of 50 and left to degas for a few hours whilst heating up furnaces
- Gases turned on and leak checked – all okay
- No flow observed on flow sensor – opened side panel, Purge line seemed cut from transport and inside carrier flow leaking, replaced line, re-crimped and used new PTFE ferrules – all okay system now reading on the outlet $\sim 55\text{ml/min}$ with both pressure gauges at 25PSI and no leaks detected with helium detector around the system
- Started ramping up furnace temps to reach Combustion: 1000°C , Reduction: 600°C and GC: 65°C , Cal controllers respond fine – all okay
- Autosampler does not seem to rotate – side panels removed and cog adjusted – no change, swapped block to thicker model and adjusted cog positioning and it seems to be turning fine now
- Autosampler screws leak checked – all okay
- Pressure tested system with furnaces at full temps – drop of 1PSI in 300secs – system leak tight

11 – Installation Report

Client:	University of Vienna		
Quotation Number:	19066	Date:	05/09/2025
Job Number:	IN1374	Date:	07/11/2025

- How to use the Reprocessor to adjust windows, change names
- Leak and Pressure testing of the system including background checks

Day 5 (12/06/2026):

- Allowed customer to work the system – valve operational control/trapping/samples/reprocessing
- Dropped a few collagen samples to determine what sample sizes are optimal for the system
- From the tests carried out it seems like a good weight of collagen sample is 0.5-1mg which gives good size peaks for N2&CO2
- Handed system to customer
- Installation visit complete

Final System Specifications:

	CO2	N2
Peak Shape	Good	Good
Stability	Good	Good
Dual Beetmix Solution (100ugN/400ugC) Precision	0.007	0.079
Dual Beetmix Solution (100ugN/250ugC) Linearity	0.240	0.200

Recommendations:

Purchase more consumables for making up tubes, magnesium perchlorate for the water trap (none was found), and I would recommend getting a leak detector to ease the leak checking procedure

Purchase relevant standards for the required analysis

Take care with your helium gauge as this was installed loose

Faults and Shortages:

Autosampler stopped turning – new holding block for the cog provided and longer screw – hasn't stopped turning since Day 2 – if it stops turning again a new arm might be required

Follow up:

Please contact us at service@sercongroup.com if you have any future questions or problems

Engineer: Thomas Iordanidis

Date: 12/06/2026

Signed:

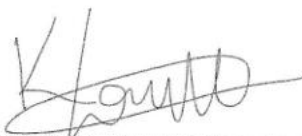


12 – Installation Acceptance and Warranty Certificate

Client:	University of Vienna		
Quotation Number:	19066	Date:	05/09/2025
Job Number:	IN1374	Date:	07/11/2025

Contact:	Katerina Douka
System:	INTEGRA2 (S/N: 20802/4-2025/1374)
Software:	V50.0.3
Engineer:	Thomas Iordanidis
Installation Date:	08/06/2026

Warranty commences:	12/06/2026
Warranty Expires:	11/06/2028

Customer Acceptance:Name: Katerina DoukaSignature: Date: 12.06.2026**Engineer's Signature:**

On behalf of Sercon Limited

Name: Thomas IordanidisSignature: Date: 12/06/2026

Notes:

Packing List

Customer Reference: FA547033

Shipper / Exporter:

Sercon Limited
Europa House
Coppicemere Drive
Crewe
CW1 6GZ
UK

Tel: +44 (0)1270 580008
Reference: IN1374

Consignee:

University of Vienna
Department of Evolutionary Anthropology
Djerassiplatz 1
1030 Vienna
AUSTRIA
VAT number ATU37586901

Contact Name: Katerina Douka
Contact Tel Number: +43 1 4277 54754

BOX: 1

Quantity	Product Code	Product Description	Serial Number: if available
☒ 1	20802/4	Integra 2	20802/4-2025/1374

Packed by:



Date:

15/12/2025

Claims for damage or shortages must be made within 3 days

Packing List

Customer Reference: FA547033

Shipper / Exporter:

Sercon Limited
Europa House
Coppicemere Drive
Crewe
CW1 6GZ
UK

Tel: +44 (0)1270 580008
Reference: IN1374

Consignee:

University of Vienna
Department of Evolutionary Anthropology
Djerassiplatz 1
1030 Vienna
AUSTRIA
VAT number ATU37586901

Contact Name: Katerina Douka
Contact Tel Number: +43 1 4277 54754

BOX: 2

Quantity	Product Code	Product Description	Serial Number: if available
☒ 1	SI0103	Rotary pump	250236010
☒ 1	SI2918	PC	
☒ 1	SI2391	Monitor	
☒ 1	10202-S	50 position autosampler	42709
☒ 1	SI0101	Magnet	21-10-246
☒ 1	70201-2	Analyser spares kit	
☒ 1	70501-3	Sample preparation kit	
☒ 1	70401-1	Integra start up consumables kit	
☒ 1	70501-1	Consumable for c and n for combustion kit	
☒ 1		Software backup USB (inside PC box)	
☒ 1		Windows recovery USB (inside PC box)	
☒ 1		Mains cable for Integra 2	

Packed by:

Date:




18/12/2025

Claims for damage or shortages must be made within 3 days