

4 - LOG SHEET

Client:	University of East Anglia	Sinopec c/o Labtech
Quotation Number:	15737	Date: 8/11/21 SM
Job Number:	201273	Date: 10/11/22 25/8/22

Date	Action Taken	By Whom
04 Apr 22	Source fitted. Attempted to pump down. S vac read back incorrect. Investigate for leak. Blanket off source. No change. Replaced Edwards gauge assy. Read backs now respond okay. Filled source + inlet line. Pumped instrument down. Slow to pump. Got vac reached our negh (1.0 ⁻⁰⁸)	DJH
04 Apr 22	Conditioned filament. Emissions on high side	DJH
05 Apr 22	Re Filled Emag. Beams present. Adjusted software set up to standard emag config. Low Emag readbacks. Adjusted got with in SysCon. Ok now Beams available. Especially beam 2. Rebuild of Head amp setup gave some instability. Replaced Head Amp. Beams now stable.	DJH
05 Apr 22	Run Ref gas specs after crimping lines + flows. Results ok. Linearity slightly off, was going to return but emissions now rising in N ₂ mode, into next range. Vent and replaced filament. Fitted original Edwards vac gauge as production noted that it wasn't fitted correctly before. Read backs for S vac now respond ok.	DJH
06 Apr 22	S vac read back fail again. Fitted Test Rig Edwards gauge assy. Pumped down again.	DJH

4 - LOG SHEET

Client:	University of East Anglia Sinopec C/O: Labtech		
Quotation Number:	15737	Date:	11/01/2022 08/11/21
Job Number:	IN1273	Date:	25/01/2022 10/11/22

Date	Action Taken	By Whom
04 May 21	Geo Dual Inlet unit build finish on test floor. Ready for Sledge + Test.	
	Bellows fail, both sides seem to try to move but are jammed. Removed and rebuilt axis greased. Commis loss. Sample bellows moves but Ref bellows will not respond.	
	Replaced Geo prep board for new. Same issue occurs. Replaced Ref bellows again to rebuilt.	DJH
05 May 21	Bellows now working correctly. Temp turbo fitted to Geo unit while order comes in to Test floor. No read backs present on vac or transducer.	
	Inspect prep board. Jumpers in wrong position. Re fitted jumpers read backs now present.	
	Calibrated transducer - All OK. fitted 6 thin capillary lines (30 thin incorrectly fitted).	
	Air leak on valve lines - fixed. increased air pressure to 5 bar. Values all seem to respond OK via software.	
	Modified software for single sample usage + config for single transducer. Software update to V30.1.0 by WM.	
	Mass spec pumped down OK after issue with rotary pump filter incorrectly fitted.	
	Emissions still high, maybe due to unique build of source by customer.	
	Multiple filaments give same read backs	DJH

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Client:	University of East Anglia Sinopec C/o lab tech		
Quotation Number:	15021 15737	Date:	11/01/2022 8/11/21
Job Number:	141275 201273	Date:	28/01/2022 10/11/22

 SM
 25/8/22

Date	Action Taken	By Whom
13 Jun 22	New A turbo fitted due to failure. System pumped down ok. Gas fitted ok. Bellows fail. Restart of unit fixed. Pumped down Gas. Vac good 1.3-ecc mbar low vac, 9.3e-04 high vac. Looked at Ref gas No beams.	DH
14 Jun 22	Cannot find beams. Ad read backs ok. Inspect source cable, change for new. same - No beams. inspect source. Trap damaged. Replaced for new. Also have found on focusing magnet.	DH
15 Jun 22	Beams present but at very low sens. Swapped source for Test Rig spare + new filament. Conditioned ok.	DH
16 Jun 22	Sens improved. Magnet move = No change in sens. Found can increase sens to normal levels with add HP setting. Swapped SC - No change. Swapped back. Sens good with high HP. Change Emag power supply. No change. Returned original parts. Peak shape + stability good. Continuity on Ref gas good + Pres. Cooked at Gas side. Ad seems ok except needed to remove spring ring from RCI because would not open.	DH
17 Jun 22	Ran several checks + runs. Back speed value from CoV leaking, causing burst of pressure + trapping filament. Seems OK after re fit. Specs look good but with high HP trapping. Needs cold finger filters for lower ki specs.	DH



Client:	University of East Anglia	Sinopec c/o Labtech
Quotation Number:	15921 15737	Date: 11/10/2022 8/11/22
Job Number:	IN1275 201273	Date: 23/10/2022 10/1/22

S028 v3

4 - LOG SHEET

Client:	University of East Anglia <i>Sinopec C/O Labtech</i>		
Quotation Number:	15924 <i>15737</i>	Date:	11/01/2022 <i>8/11/21</i>
Job Number:	111273 <i>201273</i>	Date:	20/01/2022 <i>10/01/22</i>

Date	Action Taken	By Whom
17Jun22	Set up needle checked Sample manifold. Air lines missing set up - ok fixed leaks on lines. Comm issues present. Set up with WM	DTH
24Jun22	Manually get sample from evacuated vial to Dual inlet. Results good. Trace unstable due to air line issues. COV value RCI has problems closing / opening Rebuilt seems ok now.	DTH
30Jun22	Attempt to write macros method. 2 + w arms are back to front.	DTH
07Jul22	Carried on with method writing CEAC needs some software adjustments + certain commands figuring out to fully operate.	DTH
04-Jul-22	WM TAKEN OVER TESTING	CM
11-JUL-22	WM HAS CONFIGURED CEAC + DRIVING ON AUTOMATED	CM
09-Aug-22	Macro program responds okay after WM investigation. System configured ok obtain approx 1.0A of sample from 50µg (unknown compound, M). System unstable. Investigate.	
10Aug22	Replace heat amp + cable -> no change. Retrain sample still unstable. Rebuilt original parts.	DTH
11Aug22	Adjust heating, + method to experiment with volumes. Cold finger freezes down to -140°C with improved plumbing.	DTH