

Outgas Verification Report

General information

System: Innovar RGA Container S
Document: RGA_2014-05-15-MT-S-051_Emulcut 116 - ALU na uitstook-10h
Operator: Hans Cools

Pump speed: 216 l/s
Surface Area: 3,8E+03 cm²
MS head: MS02

Background measurement information

Date last measurement : 7-5-2014
Time : 10 hour after 10 min venting
P tot : 6,08E-09 mbar
Σ I : 1,41E-09 A
P tot / Σ I : 4,3 mbar/A
EM Voltage : 1196 V
Noise level: 4,0E-13 mbar.l/s

Background Time 10 Hour

Outgassing :
H2O 7,14E-07 mbar.l/s
CxHy 45-100(v) 3,41E-09 mbar.l/s
CxHy 101-200(nv) 4,29E-10 mbar.l/s
M 28 (N2) 6,51E-08 mbar.l/s
M 32 (O2) 5,47E-08 mbar.l/s
M 40(Ar) 3,67E-10 mbar.l/s
M 44 (CO2) 4,09E-08 mbar.l/s

Measurement Information

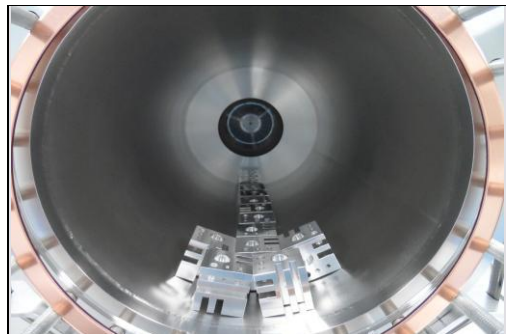
Start measurement : 14-5-2014 19:37:25
10h measurement: 15-5-2014 5:37:25
Temperature : 22 °C
Humidity : < 45 %
P tot : 6,48E-09 mbar
Σ I : 1,39E-09 A
P tot / Σ I : 4,7 mbar/A

Measuring Time 10 Hour

Round Robin	Correction Factors
H2O	1,00
CxHy 45-100(v)	0,97
CxHy 101-200(nv)	2,14

	Partial pressure measured	Partial pressure background	Q batch	Q spec	Factor Q (batch) / Q (spec)	Qualification	R ² measurement
	mbar	mbar	mbar.l/s	mbar.l/s			
H2O	3,68E-09	3,30E-09	8,03E-08	6,78E-07	0,119	Inconclusive	
CxHy 45-100(v)	1,91E-11	1,58E-11	6,82E-10	4,07E-09	0,168	OK	0,20
CxHy 101-200(nv)	1,81E-12	1,98E-12	< 0	3,13E-10	< 0	Signal too Low	0,05
M 28 (N2)	2,92E-10	3,02E-10	< 0	0,00E+00	< 0		
M 32 (O2)	2,77E-10	2,53E-10	5,08E-09	0,00E+00	Not determined		
M 40(Ar)	1,32E-12	1,70E-12	< 0	tbd	nvt		
M 44(CO2)	1,91E-10	1,89E-10	4,09E-10	tbd	nvt		

Loading pictures :



Factor: According to GSA-07-1221/2221/3221 a factor 2 out of specification is accepted to avoid 'False negative' conclusions

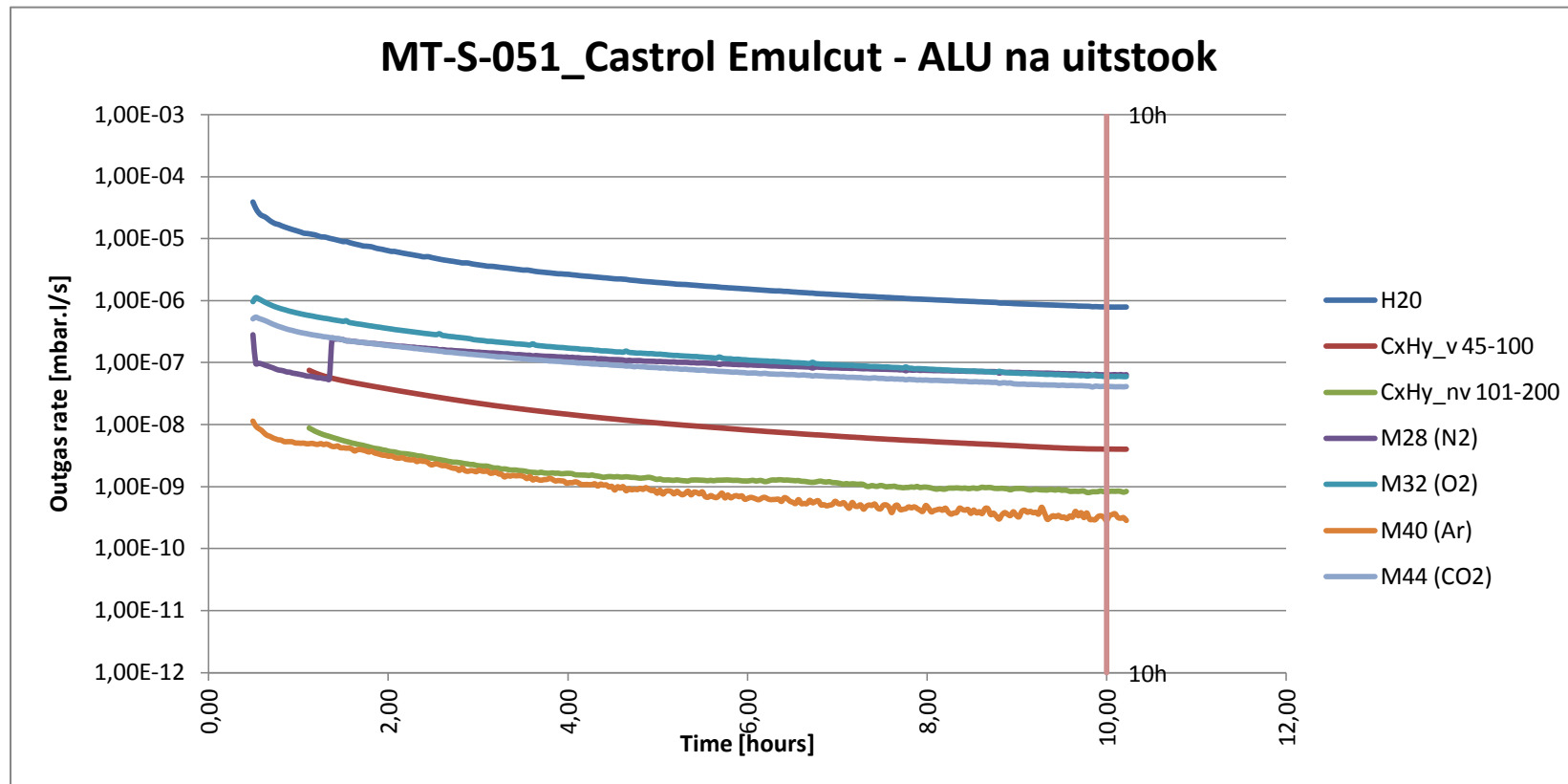
R²: Weighed Regression over the measurement See sheet STDEVCALC for more information

Product Information

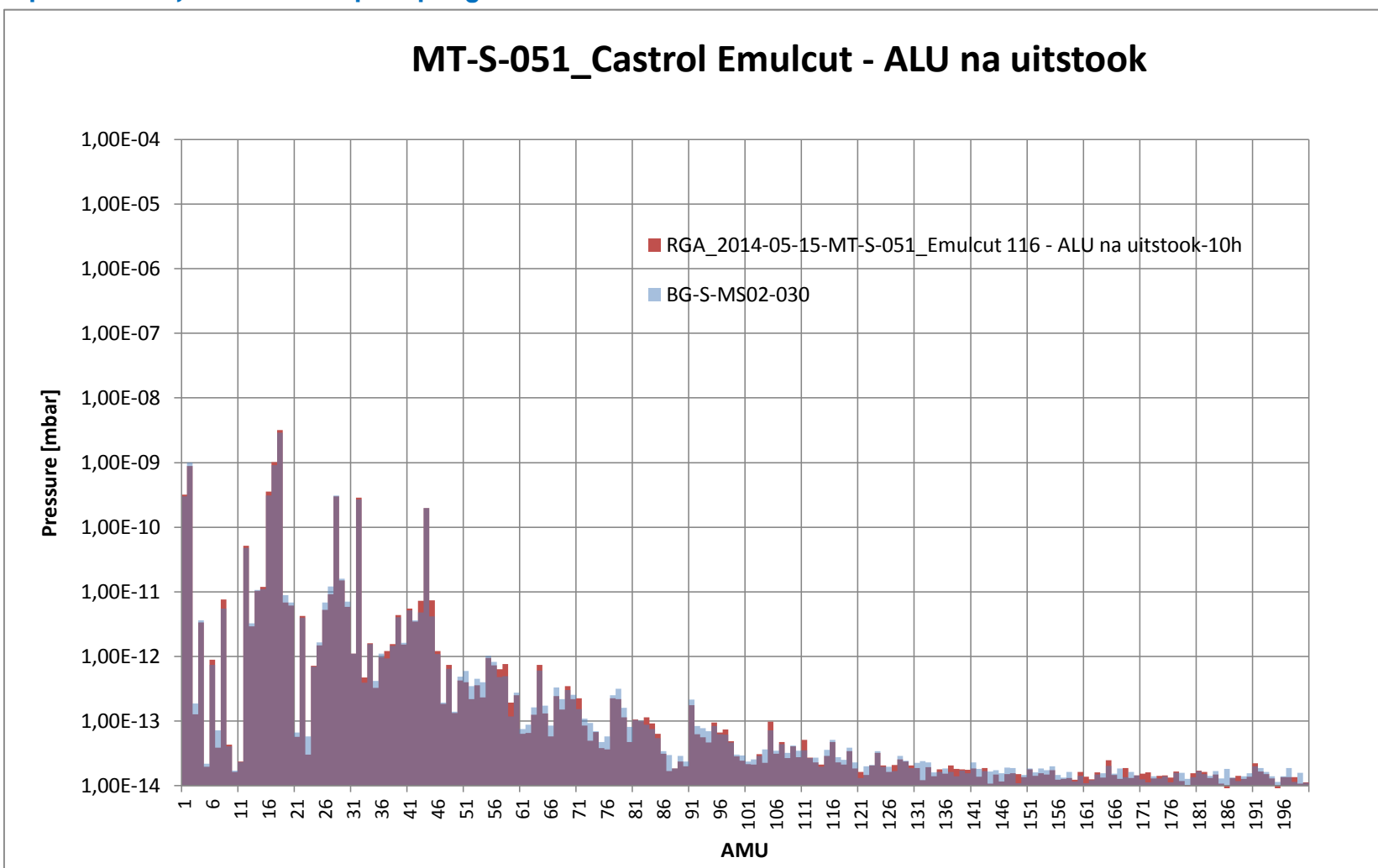
Customer : Innovar
Customer ordernumber : GEEN

Product ID	Description	Serial No.	Specified outgassing / item			Quantity
			H2O	CxHy 45-100(v)	CxHy 101-200(nv)	
NVT	ALU blokjes - gereinigt in HT 1511 + uitstook sessie		4,52E-08	2,71E-10	2,09E-11	15

Outgas Values in time (not background subtracted)



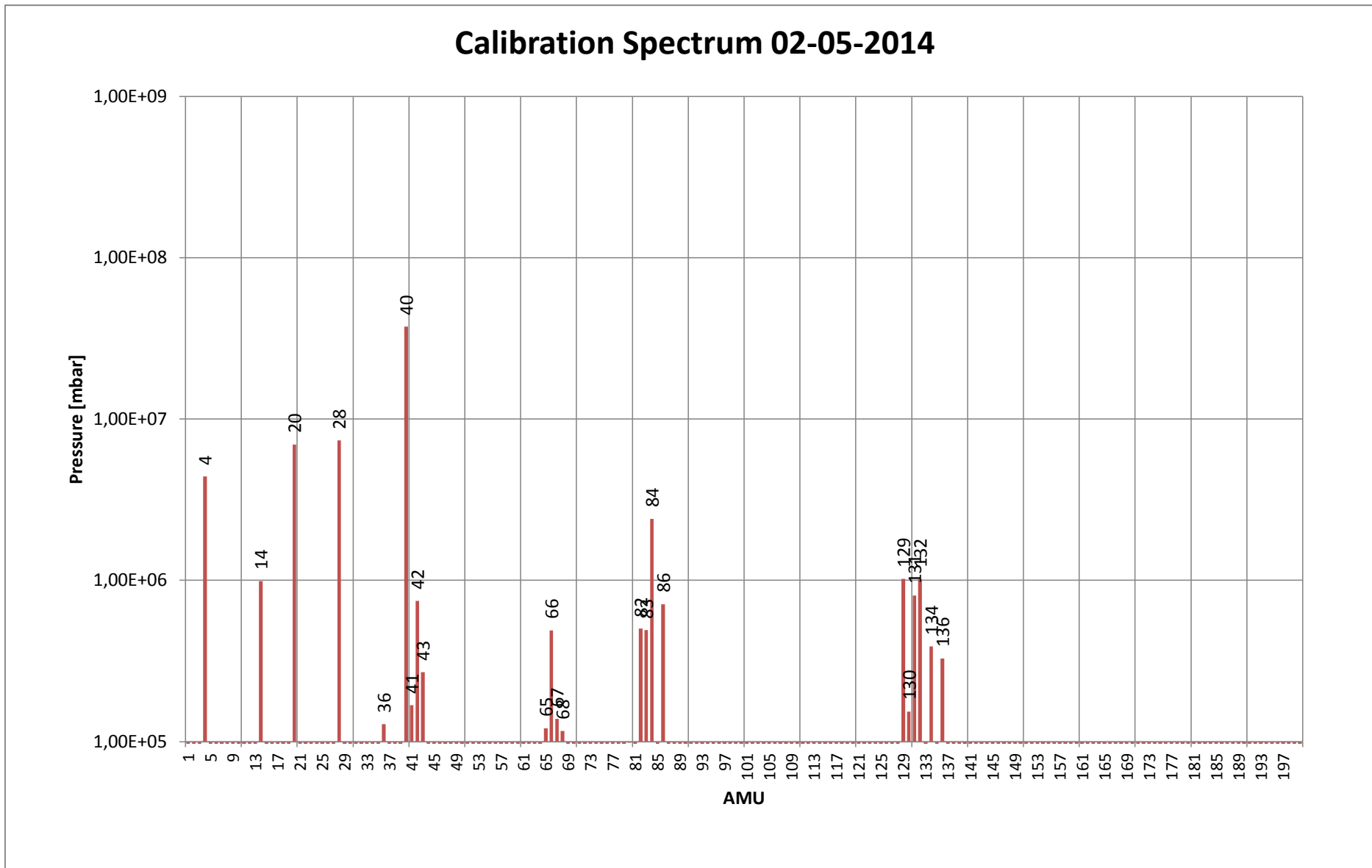
Spectrum after 10 hour pumping



Remark:

ALU blokjes, geproduceerd met Emulcut 116
 Gereinigd in Deconex HT 1511
 Uitstook sessie (20u@120°C)

Calibration results



Calibration Date : 2-5-2014

	Sum Pressure mbar	Corr Press mbar	Rel. (Ar)	Rel. tot
He	4,4E+06	7,3E+06	17,9%	10,8%
N2*	7,1E+06	7,1E+06	17,4%	10,4%
Ar	4,4E+07	4,1E+07	100,0%	60,0%
Kr	5,4E+06	6,3E+06	15,4%	9,3%
Xe	4,7E+06	7,1E+06	17,5%	10,5%