



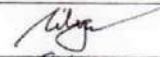





**BERITA ACARA PEMERIKSAAN HASIL PEKERJAAN
PENGADAAN PRPTN PAKET 1 UPT. LABORATORIUM
TERPADU UNS**

	DAFTAR HADIR PESERTA TRAINING	Tanggal : 26 - 28 Juni 2024
	Laboratorium Farmasi Terpadu UNS	
Judul : Thermo Scientific - GC-MS ThermoScientific Training		

DAFTAR HADIR KEGIATAN

No	Nama	Jabatan	Tanda Tangan
1	Reino Hartati	PLP	
2	Dendy	Kontrak Profesional	
3	Annisa Rachmah W.	Kontrak Profesional	
4	Muhammad Badif Nurwadi	Kontrak Profesional	
5	Widyan Muhammad Naufal	Mahasiswa	
6	Serya Devi M	Departemen pengujian	
7	Muhammad Waddil	PT Wiralab Analitika	
8			
9			
10			
11			
12			
13			

Mengetahui,


Muhammad Waddil

Customer Support Engineer

☎ (+6221) 25684021 (ext. 030, 031, 025)

@ sales@wiralab.co.id

🌐 wiralab.co.id

(P/N BREDD13608-Revision A)
Business Park Kebon Jeruk Unit G No. 8
Jl. Meruya Ilir No. 88 Jakarta 11620

ThermoFisher
SCIENTIFIC



SURAT JALAN

PENGIRIM :

CV. DYNATA IMAGE CREATIVE

Ruko River Town BA03 No 5 Jl. Celebration Boulevard
Grand Wisata, Tambun Selatan. Kab. Bekasi

Nomor : 075/DIC-SJ/VI/2024

Tanggal : 18 Juni 2024

PENERIMA :

Universitas Sebelas Maret

Jl. Ir. Sutami 36A Kentingan, Kota Surakarta, Jawa Tengah

Up. Bpk Pramono Kurniawan S.T., M.T.

0271-663377

NO	KODE BARANG	NAMA BARANG	QTY	Remark
		ID Paket: AL2-P2403-8872609		
		GFS35Z GRAPHITE FURNACE ZEEMAN UPGRADE ATOMIC ABSORPTION SPECTROPHOTOMETER AAS FLAME ICE 3500		
1	942359020051	GFS35Z GRAPHITE FURNACE (ZEEMAN) AND AUT	1	SN. GF06234601
2	942339395071	CUV 10 PYRO COATED ELECTROGRAPHITE	1	
3	942339395041	CUV EXTENDED LIFETIME(10)	1	
4	942339380021	Polypropylene Reagent Cups (Pk of 50)	1	
5	942339380031	Polypropylene Sample Cups (Pk of 1000)	1	
6	101163010000001	TF9 B A 230/50 T1 35M IPR SPC	1	
7	Local Goods	GAS ARGON UHP 99.999%, PRESSURE: 150 bar, gas content 6.0 m3	1	
8	Local Goods	Tabung GAS UHP 6m3 Argon	1	
9	Local Goods	REGULATOR ARGON	1	
10	Local Goods	UPS 1 phase 10KVA with Built-in Isolation Transformer	1	
		ISQ 7610 MASS SPECTROMETRY (MS) NEVERVENT DETECTOR FOR GAS CHROMATOGRAPHY (GC) UPGRADE		
1	ISQ7610-VPI	ISQ 7610 VPI ExtractaBrite	1	SN. ISQ762312011
2	1R120404-1940	Dual Filament	1	
3	19070010	TRACE 1300 SSL INJECTOR MODULE	1	
4	MI-190000-0028	iConnect Column Lock Nut Kit	1	
5	1R120150-PERF	ISQ Performance Spec Kit	1	
6	1R76505-0036	OIL MIST FILTER W/NW25ADAPTER/CLAMP	1	
7	7350.0104A	CM LICENSE CODE: NEW	1	
8	7100	CHROMELEON SINGLE EDITION (SE)	1	
9	7000	SPECTRAL LICENSE (3D/MS)	1	
10	26050-0225	GUARDGOLD COLUMN 2MX0.25MM	1	
11	290VA191	VESPEL FERRULE FOR AGILENTCAPILLARY NUT 0.1-0.25 PK 10	1	SN. 214295
12	29033496	15/85 GRAPH/VESP FERRULE FOR0.1-0.25MM ID COL 10PK	1	
13	365D1091	10UL FN SYRINGE, 50MM LENGTH26 GAUGE, BEVEL 1/PK	1	
		KIT VIAL 2ML CLEAR SCREW 9MM SHORT THREAD ID PATCH CAP AVCS™		
14	6AK599W	SCREW 9MM BLUE PP BLUE SILICONE / CLEAR PTFE SEPTA SOFT 1.0MM 100/PACK	1	
15	1R96000-98051	PWR CORD C19 TYPE E/F 250V MAX	1	
16	Local Goods	Gas Helium UHP 99.999%	1	
17	Local Goods	Tabung Gas Helium UHP 6m3	1	
18	Local Goods	REGULATOR HE	1	
19	Local Goods	UPS 1 phase 6KVA with Built-in Isolation Transformer	1	
20	Local Goods	Pipping set	1	

Pengirim,



Penerima,

F
(petno H)

SHIPMENT AIRWAYBILL



PT. ELEMEN PROPANCA SELARAS
 Jl. TB Simatupang/Jl. Baru No. 26 RT. 009/003,
 Rambutan-Ciracas, Jakarta Timur 13830
 Telp : +62 21 22097405
 Website : www.elpassaeasymoving.com

1003062

ORIGIN

JKT.

DESTINATION

Solo.

DOCUMENT

PACKAGE

PROJECT

SHIPPER
 cv. Dynata Image Creative
 Reiko Rivertown BA 3 A05
 Tambora - Bekasi

RECEIVER
 Lab. Kimia Terpadu UPT Lab
 Terpadu Univ Negeri Sebelas
 Maret Surakarta -
 Jl. Ir Sutarni no. 36. Kontingan
 kec. Tebes - Surakarta - Jateng

SERVICES

- SAMEDAY
- OVERNIGHT
- REGULAR
- LTL FTL
- LCL FCL
- INTERNATIONAL OTHERS

DESCRIPTION: Alat - Alat laboratorium

SPECIAL INSTRUCTION: Retno (lab kimia)

WEIGHT & DIMENTION

DESCRIPTION	PIECES	ACTUAL WEIGHT	DIMENSION (CM)			VOLUME WEIGHT
			LENGTH	WIDTH	HEIGHT	
	94					
TOTAL						

Charges 0815-7923-745
 Packing :
 Insurance :
 load/unloading :
 Others :
 Tax :
 TOTAL :

PAYMENT

- CASH CREDIT

CUSTOMER PICK UP APPROVAL

By signing Airwaybill you AGREE to the terms and conditions of delivery listed on the back of Airwaybill

DATE/TIME
 SHIPPER NAME

CONSIGNEE

Receiver has received the shipment with GOOD & COMPLETE CONDITION

DATE/TIME
 RECIEVER NAME

PACKING INSURANCE PICK UP BY

YES NO
 YES NO
 Date/Time: *[Signature]*

COMPANY : <u>Laboratorium Terpadu VHS (Chab Biologi)</u>	CONTACT PERSON :
ADDRESS : <u>Jl. K. Sutani NO.76, Deket, Surabaya</u>	TEL/FAX :
	EMAIL :

SUBJECT OF WORK :	<input checked="" type="checkbox"/> INST/COMM	<input type="checkbox"/> SITE CAL/PM/IOQ	<input type="checkbox"/> ONSITE REPAIR	<input type="checkbox"/> WORKSHOP REPAIR	<input type="checkbox"/> TRAINING	<input type="checkbox"/> OTHER
INSTRUMENT UNDER :	<input checked="" type="checkbox"/> WARRANTY	<input type="checkbox"/> CONTRACT	<input type="checkbox"/> PER CALL	<input type="checkbox"/> RENTAL	<input type="checkbox"/> OTHER	

LIST OF INSTRUMENT SERVICE			
NAME	MODEL NO.	FIRMWARE	SERIAL NO.
<u>Mass spectrometer</u>	<u>ISA 7610</u>		<u>150762312011</u>
<u>SPL injector</u>	<u>TRACE 1310 SSB</u>		<u>72370211</u>

COMPLAINT :

WORK DESCRIPTION : (1) FAULT (2) ACTION TAKEN

- Instalasi Mass spectrometer ISA 7610 ke GC chromatography TRACE 1310
- Pipng Gas : leak check passed (Helium Gas)
- IQ: parameter passed (Instrument qualification)
- OQ: parameter passed (Operational qualification)
- Training Operator

RECOMMENDATION :

JOB STATUS : COMPLETED IN PROGRESS OTHERS

QUOTATION : QUOTED TO QUOTED

DATE	<u>20/6/24</u>	<u>Sempur</u>	<u>26/6/24</u>
START TIME			
END TIME			

*LIST OF PART USED		W - WARRANTY CLAIM	S - STOCK
DESCRIPTION	PART NO.	QTY.	*FROM

CUSTOMER NAME : Sembur Mikrobiologi
UPT. Laboratorium Terpadu

SIGN : [Signature] DATE : 28/6/24

COMPANY'S STAMP

ENGINEER NAME : Mk Muadib

SIGN : [Signature]

DATE : 26/6/24



PT. WIRALAB ANALITIKA SOLUSINDO

Business Park Kebon Jeruk Blok G No.8
 Jl. Meruya Ilir No.88, Meruya Utara, Jakarta 11620
 Tel: (62-21 25684021) (Hunting)
 Email: csthermo@wiralab.co.id / sales@wiralab.co.id
 Website: www.wiralabanalitika.com

Branch Surabaya; Gedung Bumi Mandiri Tower II, 8thfloor No. 810
 Jl. Panglima Sudirman 66-68, Surabaya
 (031) 99253553

JOB REPORT

JR. NO : 111/001/26/2024

SO. NO : _____

COMPANY : <u>Labokantorium Terpadu VHS (Lab Biologi)</u>	CONTACT PERSON :
ADDRESS : <u>Jl. IP. Sitani, NO.76, Jember, Surakarta</u>	TEL/FAX :
	EMAIL :

SUBJECT OF WORK : INST/COMM SITE CAL/PM/IOQ ONSITE REPAIR WORKSHOP REPAIR TRAINING OTHER

INSTRUMENT UNDER : WARRANTY CONTRACT PER CALL RENTAL OTHER

LIST OF INSTRUMENT SERVICE			
NAME	MODEL NO.	FIRMWARE	SERIAL NO.
<u>Mass Spectrometer</u>	<u>ISA 7610</u>		<u>ISA762312011</u>
<u>SPL Inspector</u>	<u>TRACE 1310 S&L</u>		<u>723702211</u>

COMPLAINT :

WORK DESCRIPTION : (1) FAULT (2) ACTION TAKEN

- Instalasi Mass Spectrometer ISA 7610 ke Dew Chromatography TRACE 1310
- Piping Gas : leak check passed (Helium gas)
- 1Q-parameter passed (Instrument Qualification)
- 1.OO-parameter passed (operational Qualification)
- Training Operator

RECOMMENDATION :

JOB STATUS : COMPLETED IN PROGRESS OTHERS QUOTATION : QUOTED TO QUOTED

DATE	<u>20/24</u>	<u>Sumpai</u>	<u>26/24</u>
START TIME	<u>16</u>		
END TIME			

*LIST OF PART USED		W - WARRANTY CLAIM	S - STOCK
DESCRIPTION	PART NO.	QTY.	*FROM

CUSTOMER NAME



WARRANTY CARD

Thermo Scientific provides the following warranty for this product

Period :

1 Year after Installation is completed

Description :

1. If a product/part failure occurs for reasons attributable to **Thermo Scientific** during the warranty period. **Thermo Scientific** will repair or replace the product/part free of charge. However, in the case of products which are usually available on the market only for a short time, such as personal computers and their peripherals/part. **Thermo Scientific** may not be able to provide identical replacement products.
2. To maintain the instrument in serviceable condition and to comply with the conditions of warranty, ensure that storage of each item is maintained within the stated parameters detailed for the Working Area Requirements below. Make sure that the packages are stored the correct way up.
3. Before accepting delivery of any equipment, the packages should be inspected for signs of obvious damage. The nature of the damage should be noted on the delivery notice and signed by the carrier's representative.
4. Within the time stated in the **Thermo Scientific** terms and conditions an inspection should be made for concealed damage. The local **Thermo Scientific** organisation should be advised of any damage in writing and, on receipt of specific instructions, the customer should return the equipment complete and in the original packing material.
5. The instrument is warranted against defects in material and workmanship for a period of 12 months from installation, or 15 months from shipment, whichever comes first. This warranty does not cover damage sustained as a result of improper storage by the customer prior to installation, or resale to a third party.
6. Warranty is not transferable to a third party without **Thermo Scientific** approval.

Limitation of Liability :

1. In no event will **Thermo Scientific** be liable for any lost revenue, profit or data, or for special, indirect, consequential, incidental or punitive damages, however caused regardless of the theory of liability, arising out of or related to the use of or inability to use the product, even if **Thermo Scientific** has been advised of the possibility of such damage.
2. In no event will **Thermo Scientific** liability to you, whether in contract, tort (including negligence), or otherwise, exceed the amount you paid for.

Exceptions :

Failures caused by the following are excluded from the warranty, event if they occur during the warranty period.

- Improper product handling
- Repair or modifications performed by parties other than **Thermo Scientific** or Thermo Engineer designated companies.
- Product use in combination with hardware or software other than designated by **Thermo Scientific**.
- Computer viruses leading to device failures and damage to data and software, including to product's basic software.
- Turning OFF the product without following the proper shutdown procedure leading to device failures and damage to data and software , including the product's basic software.
- Reasons unrelated to the product it self.
- Product use in harsh environments such as those subject to high temperatures or humidity levels, corrosive gases or strong vibrations.
- Fires, earthquakes, or any other act of nature, contamination by radioactive or hazardous substances, or any other force majeure event, including wars, riots and crimes.
- Product movement or transportation after installation.
- Consumable items.
Recording media such as floppy disks and CD-ROMs are considered consumable items.

Operational Qualification: MS Sensitivity

Description of the Tested System

Name of CM Server:	GC_TRACE_1310		
Name of Timebase:	GC_TRACE_1310_MS_ISQ7610		
Installed Instruments:			
Name of Instrument:	Supplier:	Model:	Serial Number:
Gas Chromatography	Thermo Scientific	TRACE 1310	720100902
Mass Spectrometer	Thermo Scientific	ISQ 7610	ISQ762312011
SSL Injector	Thermo Scientific	TRACE 1300 SSL	TRACE 1300 SSL

Test Description

Tested Instrument:	Gas Chromatography Mass Spectrometer
Tested Functionality:	MS Sensitivity

MS Sensitivity				
The MS Sensitivity Test verifies the response/sensitivity of the detector by calculating the signal-to-noise ratio.				
How Test is Performed				
A standard is injected two times in each EI and CI modes. The signal-to-noise ratio of the target peak is calculated for each injection. The calculated results are compared to the set limits. If there is a second inlet devoted to the MS, this test is then performed using that inlet as well.				
Module	Test Name	Test Point / Standard	OQ Limits	Result
ISQ Series MS	MS Sensitivity – EI Mode (Full Scan)	Signal-to-Noise of 1- μ L injections of 1 pg/ μ L OFN	Helium Carrier \geq 450:1 Hydrogen Carrier \geq 50:1	632:1
	MS Sensitivity – PCI Mode (Full Scan)	Signal-to-Noise of 1- μ L injections of 100 pg/ μ L BZP	Helium Carrier \geq 300:1	n.a

<input checked="" type="checkbox"/> Test Passed	<input type="checkbox"/> Test Failed	<input checked="" type="checkbox"/> Attachment(s)
--	---	--



MK Muaddib
Operator

27 June 2024
Date of Performance

PT Wiralab Analitika Solusindo
Company

Signal To Noise Test

6/27/2024 10:57:15 AM ISQ762312011

File

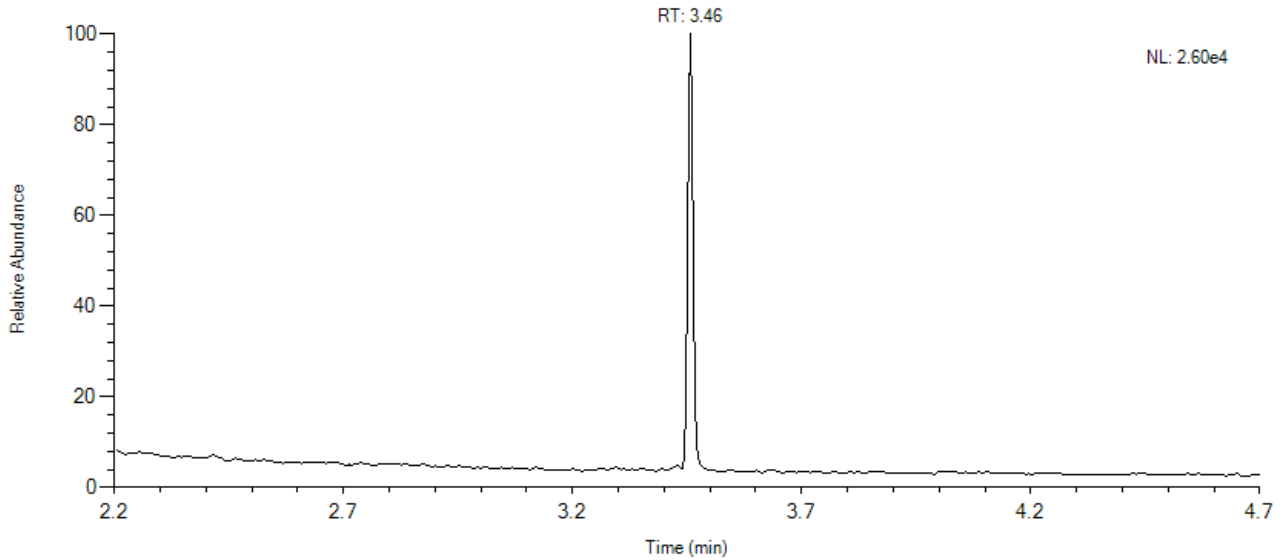
Acquired

C:\Users\Thermo\Documents\SN Test 1pg OFN\1pg OFN_1_01.raw

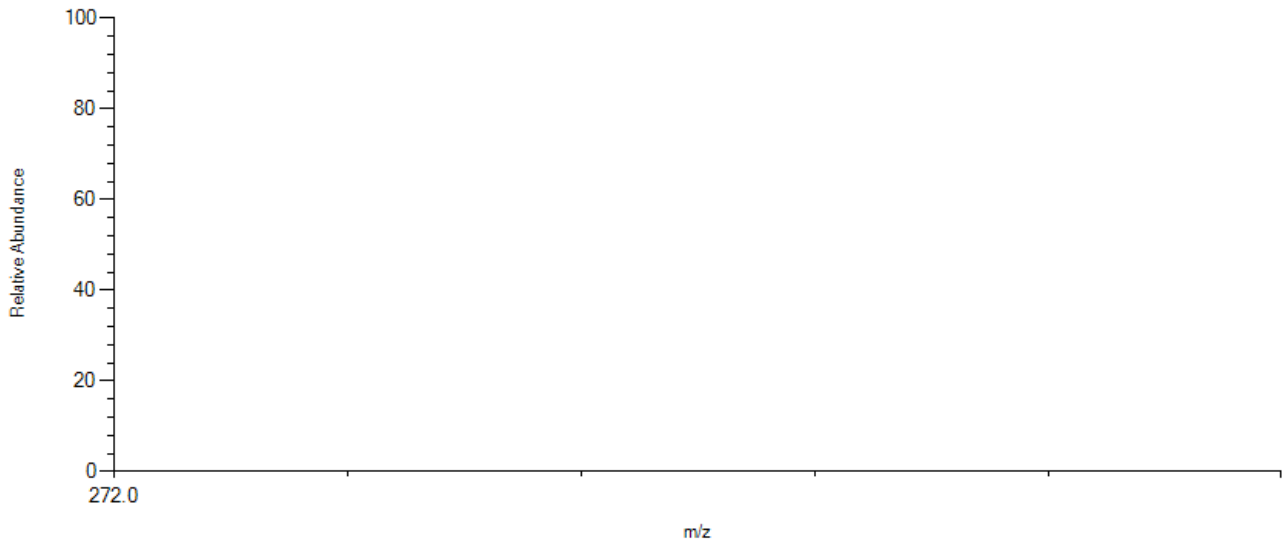
6/27/2024 10:25:08 AM

Base Peak		Baseline	100 scans	Signal To Noise (RMS)
Mass	272 amu	Noise Range	3.831 - 4.171 min	632
Retention Time	3.46 min	Average	850.62	
Intensity	25959	Standard Deviation	39.74	

Mass range 271.91 to 272.01 SM: 3B



3.454 to 3.461 min (3 scans) - 3.372 to 3.406 min(10 scans)



Customer	UPT Laboratorium Terpadu UNS Solo	Date	27 June 2024
Service engineer	MK Muaddib / PT Wiralab Analitika Solusindo	Date	27 June 2024

Operational Qualification: Autosampler Repeatability

Description of the Tested System

Name of CM Server:	GC_TRACE_1310		
Name of Timebase:	GC_TRACE_1310_MS_ISQ7610		
Installed Instruments:			
Name of Instrument:	Supplier:	Model:	Serial Number:
Gas Chromatography	Thermo Scientific	TRACE 1310	720100902
Mass Spectrometer	Thermo Scientific	ISQ 7610	ISQ762312011
SSL Injector	Thermo Scientific	TRACE 1300 SSL	TRACE 1300 SSL

Test Description

Tested Instrument:	Gas Chromatography Mass Spectrometer
Tested Functionality:	Autosampler Repeatability

Autosampler Repeatability				
The repeatability test demonstrates that system injections are precise and consistent over a series. The relative standard deviation (%RSD) of sample peak area characterizes the repeatability of the injection volume.				
How Test is Performed				
A standard is injected multiple times (minimum six injections) and data are collected. The % RSD is then compared to the set limits.				
Module	Test Name	Test Point / Standard	OQ Limits	Result
AS/AI 3000 or 1310/1610	Repeatability for Liquid Injections	Area of 6 Standard Injections	≤ 6.0% RSD	n.a
Manual Injection	Repeatability for Liquid Injections		≤ 10.0% RSD	2.977%

<input checked="" type="checkbox"/> Test Passed	<input type="checkbox"/> Test Failed	<input checked="" type="checkbox"/> Attachment(s)
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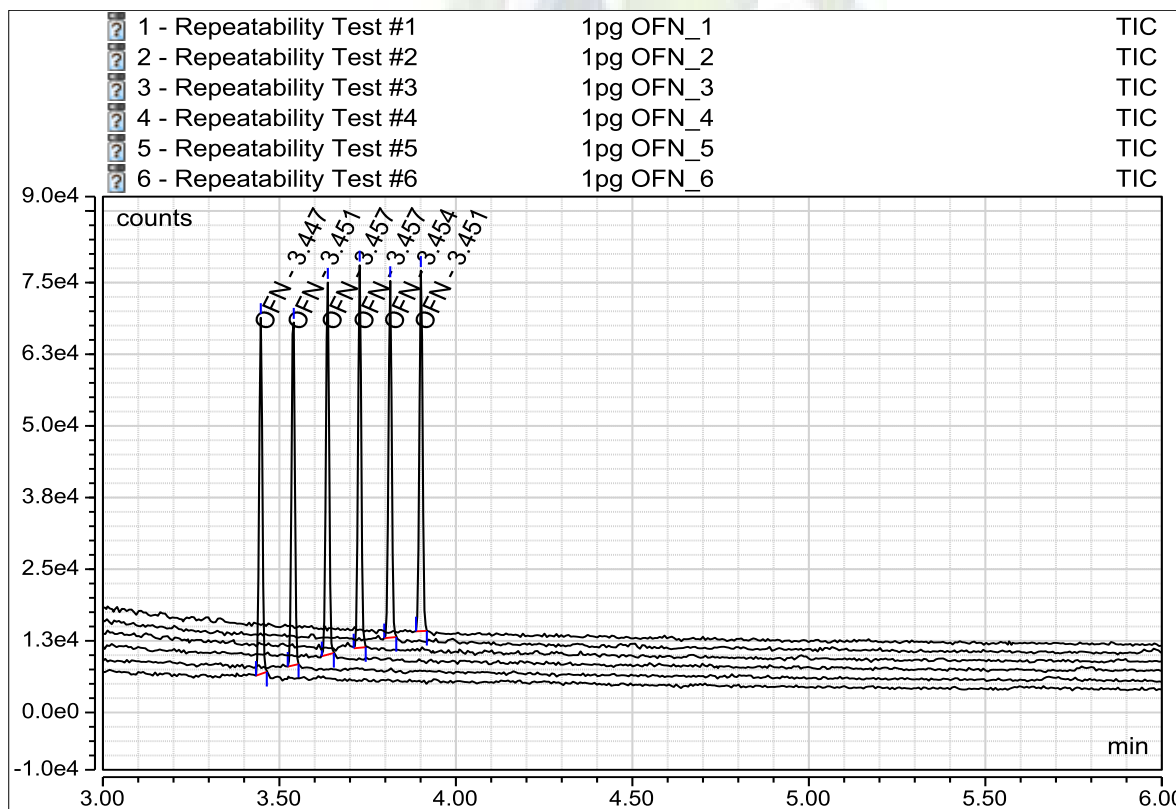
MK Muaddib
Operator

27 June 2024
Date of Performance

PT Wiralab Analitika Solusindo
Company

MS Repeatability Report

Sample name : Octafluoronaphthalene (OFN)
 Instrument Method : SN Test OFN
 Inj. Date : 27-June-2024
 Inj. Volume : 1.00
 Operator : MK Muaddib
 Run Time : 9.99



No.	Name	Time min TIC	Area counts*min TIC	Height counts TIC
1	1pg OFN_1	3.447	648.954	62141.156
2	1pg OFN_2	3.451	670.567	59792.425
3	1pg OFN_3	3.457	701.652	64910.334
4	1pg OFN_4	3.457	696.414	66731.594
5	1pg OFN_5	3.454	665.394	62232.056
6	1pg OFN_6	3.451	667.272	62887.575
	Sum:	20.72	4050.253	378695.140
	Average:	3.45	675.042	63115.857
	Rel.Std.Dev:	0.12%	2.977 %	3.824 %

Operational Qualification: Column Flow Test

Description of the Tested System

Name of CM Server:	GC_TRACE_1310		
Name of Timebase:	GC_TRACE_1310_MS_ISQ7610		
Installed Instruments:			
Name of Instrument:	Supplier:	Model:	Serial Number:
Gas Chromatography	Thermo Scientific	TRACE 1610	720100902
Mass Spectrometer	Thermo Scientific	ISQ 7610	ISQ762312011
SSL Injector	Thermo Scientific	TRACE 1300 SSL	723302511

Test Description

Tested Instrument:	Gas Chromatography Mass Spectrometer
Tested Functionality:	Column Flow

Column Flow Test		
Test point	OQ Limits	Result
1 ml/min	± 0,5 ml/min	0.999 ml/min

<input checked="" type="checkbox"/> Test Passed	<input type="checkbox"/> Test Failed	<input checked="" type="checkbox"/> Attachment(s)
--	---	--



MK Muaddib
Operator

26 Juni 2024
Date of Performance

PT Wiralab Analitika Solusindo
Company

Chromleon Console

File Edit View Tools Help

Thermo Scientific GC/MS Home Front View Back View Open Bad Detector ISO Error Setup Queue

Overview

ISO12612011

ISO12612011

SSL Method

Link type: SSL

Gas saver: Off On

Center mode: Flow/Chk Split

Split mode: Split Flow/Chk

Temperature: [°C]

Actual: 0.559 [bar]

Setpoint: 1.000 [psi/min]

Column pressure: On

Carrier flow: 0.999 [psi/min]

Purge flow: 5.000 [psi/min]

Spike flow: 50.0 [psi/min]

Column Functions: Column Properties, Leak Check, Column Evaluation

	Date	Time	Retention Time	Device #	Message
1	6/26/2024	12:30:55 PM -07:00		GC	New detailed run state: Waiting for prep-run key
2	6/26/2024	12:30:55 PM -07:00		GC	Log PumpBare: Standby
3	6/26/2024	12:30:49 PM -07:00		GC	New detailed run state: Waiting for equilibration time
4	6/26/2024	12:30:34 PM -07:00		GC	Log ICP sensor: 0.1617
5	6/26/2024	12:30:32 PM -07:00		GC	GC FrontColumn Length = 30.06 m
6	6/26/2024	12:14:34 PM -07:00		GC	Log PumpBare: NotReady
7	6/26/2024	12:14:34 PM -07:00		GC	Log PumpBare: NotReady
8	6/26/2024	12:14:34 PM -07:00		GC	Connector reinitialized successfully.
9	6/26/2024	12:14:32 PM -07:00		GC	Log Door Status: Closed
10	6/26/2024	12:14:32 PM -07:00		GC	Trying to connect...
11	6/26/2024	12:14:32 PM -07:00		GC	GC Connected - Connected

ISO12611

12:21 PM 6/26/2024

Operational Qualification: Flow Rate (Purge Flow)

Description of the Tested System

Name of CM Server:	GC_TRACE_1310		
Name of Timebase:	GC_TRACE_1310_MS_ISQ7610		
Installed Instruments:			
Name of Instrument:	Supplier:	Model:	Serial Number:
Gas Chromatography	Thermo Scientific	TRACE 1310	720100902
Mass Spectrometer	Thermo Scientific	ISQ 7610	ISQ76231201
SSL Injector	Thermo Scientific	TRACE 1300 SSL	723302511

Test Description

Tested Instrument:	Gas Chromatography Mass Spectrometer
Tested Functionality:	Flow Rate (Purge Flow)

Flow Rate (Purge Flow)		
Test point	OQ Limits	Result
5 ml/min	± 2 ml/min	5.000 ml/min

<input checked="" type="checkbox"/> Test Passed	<input type="checkbox"/> Test Failed	<input checked="" type="checkbox"/> Attachment(s)
--	---	--



MK Muaddib
 Operator

26 June 2024
 Date of Performance

PT Wiralab Analitika Solusindo
 Company

Chromleon GC/MS

ISO76312011

ISO76312011

Overview

Launch Workflows - Release Control - Consumables - Autogenerated - Detect ethanol

Thermo Scientific GC/MS Home Front Inlet Back Inlet Oven Back Detector ISO Filter Audit Start Queue

Status SSL

Helix type: SSL

Gas saver: Off On

Center mode: **FlowCut** Split

Split mode: Split FlowCut

Center pressure: 0.550 [bar]

Column flow: 0.999 [ml/min]

Purge flow: 5.000 [ml/min]

Split flow: 60.0 [ml/min]

Temperature: 100 [°C]

Actual vs. Setpoint

Column Functions: Column Properties, Leak Check, Column Evaluation

Run	Date	Time	Retention Time	Device	Message
1	8/29/2024	12:20:55 PM 4:07:00		GC	New detailed run state: Waiting for prep-run key
2	8/29/2024	12:20:05 PM 4:07:00		GC	Log RunState: Standby
3	8/29/2024	12:20:45 PM 4:07:00		GC	New detailed run state: Waiting for equilibration time
4	8/29/2024	12:20:02 PM 4:07:00		GC	Log PE score: 0.167
5	8/29/2024	12:20:02 PM 4:07:00		GC	GC FrontColumn length = 30.00 m
6	8/29/2024	12:14:34 PM 4:07:00		GC	Log RunState: NotReady
7	8/29/2024	12:14:34 PM 4:07:00		GC	Log RunState: NotReady
8	8/29/2024	12:14:34 PM 4:07:00		GC	Connection established successfully.
9	8/29/2024	12:14:32 PM 4:07:00		GC	Log RunState: Closed
10	8/29/2024	12:14:32 PM 4:07:00		GC	Trying to connect: ...
11	8/29/2024	12:14:32 PM 4:07:00		GC	GC Connected - Connected

12:27 PM 8/29/2024 ISO7610

Operational Qualification: Flow Rate (Split Flow)

Description of the Tested System

Name of CM Server:	GC_TRACE_1310		
Name of Timebase:	GC_TRACE_1310_MS_ISQ7610		
Installed Instruments:			
Name of Instrument:	Supplier:	Model:	Serial Number:
Gas Chromatography	Thermo Scientific	TRACE 1310	720100902
Mass Spectrometer	Thermo Scientific	ISQ 7610	ISQ762312011
SSL Injector	Thermo Scientific	TRACE 1300 SSL	723302511

Test Description

Tested Instrument:	Gas Chromatography Mass Spectrometer
Tested Functionality:	Flow Rate (Split Flow)

Flow Rate (Split Flow)		
Test point	OQ Limits	Result
60 ml/min	± 10 ml/min	60.0 ml/min

<input checked="" type="checkbox"/> Test Passed	<input type="checkbox"/> Test Failed	<input checked="" type="checkbox"/> Attachment(s)
--	---	--



MK Muaddib
 Operator

26 June 2024
 Date of Performance

PT Wiralab Analitika Solusindo
 Company

Chromleon Console

Back Create File Edit View Tools Help

Launch eWorkflow Release Control Consumables Auto-generated Patch ePanel

Instruments

Overview

IS0702312011

IS0702312011

Thermo Scientific GCMS Home Frontfield Backfield Oven BackDetector SSI Filter Audit Stand Queue

Status SSL

Head type: SSL

Center pressure: 0.5520 Bar

Column flow: On 0.999 ml/min

Gas saver: OFF

Purge flow: On 5.000 ml/min

Carrier mode: FlowCell

Split flow: On 60.0 ml/min

Split mode: Split

Temperature: On 100.0 [C]

Column Functions

Column Properties

Leak Check

Column Evaluation

SSL Head

1	2	3	4	5	6	7	8	9	10	11
Date	Time	Retention Time	Device	Message						
6/26/2024	12:20:25 PM -07:00		GC	New detailed run state: 'Waiting for prep-run key'						
6/26/2024	12:20:25 PM -07:00		GC	Log Run State: Standby						
6/26/2024	12:20:25 PM -07:00		GC	New detailed run state: 'Waiting for equilibration time'						
6/26/2024	12:20:04 PM -07:00		GC	Log VDetector: 0.1617						
6/26/2024	12:20:03 PM -07:00		GC	GC Front-column Length = 30.00 m						
6/26/2024	12:14:34 PM -07:00		GC	Log Repair: NotReady						
6/26/2024	12:14:34 PM -07:00		GC	Log Run State: NotReady						
6/26/2024	12:14:24 PM -07:00		GC	Connection established successfully.						
6/26/2024	12:14:33 PM -07:00		GC	Log DoorStatus: Closed						
6/26/2024	12:14:32 PM -07:00		GC	Trying to connect...						
6/26/2024	12:14:32 PM -07:00		GC	GC Connected - Connected						

Copy Report Reteng Normal

Find Next Find Previous

Messages

12:21 PM 6/26/2024 IS070231

Installation Qualification: GC Detectors

Description of the Tested System

Name of CM Server:	GC_TRACE_1310		
Name of Timebase:	GC_TRACE_1310_MS_ISQ7610		
Installed Instruments:			
Name of Instrument:	Supplier:	Model:	Serial Number:
Gas Chromatography	Thermo Scientific	TRACE 1310	720100902
Mass Spectrometer	Thermo Scientific	ISQ 7610	ISQ762312011
SSL Injector	Thermo Scientific	TRACE 1300 SSL	723302511

Test Description

Tested Instrument:	Gas Chromatography Mass Spectrometer
Tested Functionality:	GC Detectors
Test Case:	Set three different temperature values for the detector heating
Test Result:	The temperature parameters are logged in the Audit Trail.
<input checked="" type="checkbox"/> Test Passed <input type="checkbox"/> Test Failed <input checked="" type="checkbox"/> Attachment(s)	



MK Muaddib
Operator

26 June 2024
Date of Performance

PT Wiralab Analitika Solusindo
Company

Chromleon Console

Back Create File Edit View Tools Help

Launch workflow + Release Control + Consumables + Adapters + Detach Panel

Thermo Scientific GC/MS Home Refresh Back Home Open Back/Refresh Run Abort Start/Queue

Overview

ISQ762312011

ISQ762312011

Module Status

Connected Ready for download

Retention Time

Module Connect

Disconnected

Wellness

Services

Flame

Shutdown

Timing

Settings

Actual Support Ready

MS transfer line temperature 200 °C 200 °C

Low source temperature 160 °C 160 °C

Low optical temperature 167 °C 167 °C

Vacuum ready Yes

Fuel/air pressure 565 psi/air

On-line Plot

2114705

2000000

1500000

1000000

500000

0

-500000

-1000

0.00 1.25 2.50 3.75 5.00 6.25 7.50 8.75 10.00 min

Back/Refresh

Spectral plot could not be created
No spectra selected.

Audit Trail

Date	Time	Retention Time	Event	Message
6/28/2024	11:18:45 AM -07:00	GC	GC	New detailed run state: Waiting for ready.
6/28/2024	11:18:44 AM -07:00	GC	GC	New detailed run state: Waiting for equilibration time.
6/28/2024	11:18:43 AM -07:00	GC	GC	Low Runtable Method.
6/28/2024	11:18:42 AM -07:00	GC	GC	GC Frontliner Temperature Monitored = 100 °C
6/28/2024	11:17:42 AM -07:00	GC	GC	New detailed run state: Waiting for prep-run key.
6/28/2024	11:17:41 AM -07:00	GC	GC	Log RunState: Steady
6/28/2024	11:17:38 AM -07:00	GC	GC	New detailed run state: Waiting for equilibration time.
6/28/2024	11:17:36 AM -07:00	GC	GC	New detailed run state: Waiting for ready.
6/28/2024	11:17:06 AM -07:00	GC	GC	New detailed run state: Waiting for equilibration time.
6/28/2024	11:17:05 AM -07:00	GC	GC	Low Runtable Method.
6/28/2024	11:17:05 AM -07:00	GC	GC	GC Frontliner Temperature Monitored = 80 °C
6/28/2024	11:15:45 AM -07:00	GC	GC	New detailed run state: Waiting for prep-run key.

11:45 AM 6/28/2024 ISQ7610

Chromleon Core MS

Back Create File Edit View Tool Help

Instruments

Overview

ISQ705312011

ISQ705312011

Launch eWorkflow

Release Control

Consumables

Autogenerated

Detach ePanel

Frontier

BackDetector

ISQ

Filter

Audit

Status

Queue

Module Status

Connected

Ready/Download

Retention Time

Settings

MS handle temperature: 220 °C | 220 °C | Ready

Ion source temperature: 199 °C | 200 °C | Ready

Ion optics temperature: 200 °C | 200 °C | Ready

Vacuumancy: Yes

Frontier pressure: 0.5 [mTorr]

Module Covered

Decomect

Wolnes...

Service...

Flament...

Shutdown

Tung...

Online Plot

2148.6735 PA

2000000

1500000

1000000

500000

-1000

0.00 1.25 2.50 3.75 5.00 6.25 7.50 8.75 10.00 min

BackDetector

Spectral plot could not be created.
No spectra selected

Audit Trail

Date	Time	Retention Time	Device	Message
6/28/2024	11:57:53 AM -07:00	GC	GC	GC Frontline PurgFlow: Nominal = 5.000 mL/min
6/28/2024	11:58:27 AM -07:00	GC	GC	GC Frontline PurgFlow: Nominal = 1.000 mL/min
6/28/2024	11:53:18 AM -07:00	GC	GC	GC Frontline GasSolvent: Off
6/28/2024	11:53:06 AM -07:00	GC	GC	New detailed run state: Waiting for ready
6/28/2024	11:53:04 AM -07:00	GC	GC	GC Frontline PurgFlow: On
6/28/2024	11:53:03 AM -07:00	GC	GC	GC Frontline SplitFlow: On
6/28/2024	11:53:00 AM -07:00	GC	GC	New detailed run state: Validated for equilibration time
6/28/2024	11:52:59 AM -07:00	GC	GC	GC Frontline SplitFlow: Off
6/28/2024	11:52:58 AM -07:00	GC	GC	GC Frontline PurgFlow: Off
6/28/2024	11:48:09 AM -07:00	GC	GC	New detailed run state: Waiting for ready
6/28/2024	11:48:09 AM -07:00	GC	GC	Log Flow: Nominal: 1.000 mL/min
6/28/2024	11:48:08 AM -07:00	GC	GC	Log Frontline: HalfReady

ISQ705310

11:59 AM 6/28/2024

Chromium/leon Console

Back Create File Edit View Tools Help

Launch eWorkflow - [] Tele Control [] Consumables - [] Auto-generated - [] Detect ePanel []

Thomas Scientific SCLMS Home | Facility | Booth | Open | BoothDetector | ISQ | Error | Audit | Status | Queue

ISQ76312011

ISQ76312011

Overview

Module Status

Completed
Ready / InDownload

Retention Time

Module Connected

Disconnect

Wellness...

Service...

Flament...

Shutdown

Tuning...

Settings

Module Transfer the temperature 230 TC [v] 230 TC [v] Ready

Ion source temperature 230 TC [v] 230 TC [v] Ready

Ion optics temperature 224 TC [v] 224 TC [v] Ready

Vacuum ready Yes

Ion trap enclosure 38 In/Ton

Online Plot

21.45 679.5
2000000-
1500000-
1000000-
500000-
0.00

PA

BackDetector

Spectral plot could not be created
No spectra selected

Audit Trail

ID	Date	Time	Retention Time	Device	Message
1	6/26/2024	12:11:50 PM -07:00		ISQ	Ion pump pressure fault has been detected
2	6/26/2024	12:11:50 PM -07:00		ISQ	Ion gauge not enabled fault has been detected
3	6/26/2024	12:11:50 PM -07:00		ISQ	Ion source controller not enabled fault has been detected
4	6/26/2024	12:11:50 PM -07:00		ISQ	A fault has been detected at the instrument
5	6/26/2024	12:11:36 PM -07:00		ISQ	Overall Status Idle
6	6/26/2024	12:11:36 PM -07:00		ISQ	DeviceStatus: ReadyToDownload
7	6/26/2024	12:11:36 PM -07:00		ISQ	OverallStatus Busy
8	6/26/2024	12:11:36 PM -07:00		ISQ	DeviceStatus: Busy
9	6/26/2024	12:11:31 PM -07:00		ISQ	Overall Status Idle
10	6/26/2024	12:11:31 PM -07:00		ISQ	DeviceStatus: ReadyToDownload
11	6/26/2024	12:11:31 PM -07:00		ISQ	IonControlStatus: Ready
12	6/26/2024	12:11:30 PM -07:00		ISQ	Instrument connected

ISQ76310

12:13 PM 6/26/2024

Installation Qualification: Temperature Settings on the Sample Inlet

Description of the Tested System

Name of CM Server:	GC_TRACE_1310		
Name of Timebase:	GC_TRACE_1310_MS_ISQ7610		
Installed Instruments:			
Name of Instrument:	Supplier:	Model:	Serial Number:
Gas Chromatography	Thermo Scientific	TRACE 1310	720100902
Mass Spectrometer	Thermo Scientific	ISQ 7610	ISQ762312011
SSL Injector	Thermo Scientific	TRACE 1300 SSL	723302511

Test Description

Tested Instrument:	Gas Chromatography Mass Spectrometer
Tested Functionality:	Temperature Settings on the Sample Inlet
Test Case:	Set three different temperature values for the sample inlet valve
Test Result:	The temperature parameters are logged in the Audit Trail.
<input checked="" type="checkbox"/> Test Passed <input type="checkbox"/> Test Failed <input checked="" type="checkbox"/> Attachment(s)	



MK Muaddib
Operator

26 June 2024
Date of Performance

PT Wiralab Analitika Solusindo
Company

Chromium Chromium

File Edit View Tools Help

Launch cWorkflow - Release Control - Consumables - AutoGenerate - Attach Panel

Thermo Scientific GC/MS Home Frontfield Baseline Oven Split Detector SO Filter Aux Sample Queue

Overview
ISO762312011
ISO762312011

Status SSL

File type: SSL

Carrier pressure: 0.3468 [psi]

Column flow: 1.489 [ml/min]

Purge flow: 5.000 [ml/min]

Carrier mode: On

Split mode: Split

Spill flow: 25.0 [ml/min]

Temperature: 60 [°C]

Actual

Setpoint

Column Properties

Leak Check

Column Evaluation

Run	Date	Time	Reason	Device	Message
1	9/26/2024	11:12:45 AM -07:00	GC	GC	New deaerated run state. Waiting for prep-run key.
2	9/26/2024	11:12:44 AM -07:00	GC	GC	Log RunState: StandBy
3	9/26/2024	11:12:39 AM -07:00	GC	GC	New deaerated run state. Waiting for equilibration time
4	9/26/2024	10:49:00 AM -07:00	GC	GC	New deaerated run state. Waiting for ready
5	9/26/2024	10:48:59 AM -07:00	GC	GC	New deaerated run state. Waiting for equilibration time
6	9/26/2024	10:48:59 AM -07:00	GC	GC	Log RunState: NotReady
7	9/26/2024	10:48:58 AM -07:00	GC	GC	GC Finished Temperature Normal = 60 °C
8	9/26/2024	10:47:08 AM -07:00	GC	GC	New deaerated run state. Waiting for prep-run key.
9	9/26/2024	10:47:07 AM -07:00	GC	GC	Log RunState: StandBy
10	9/26/2024	10:47:02 AM -07:00	GC	GC	New deaerated run state. Waiting for equilibration time
11	9/26/2024	10:44:39 AM -07:00	GC	GC	New deaerated run state. Waiting for ready

Copy Report Filter Normal Find Next Find Previous

Chromleon Control Console

File Edit View Tools Help

Instruments

Overview

ISO702312011

ISO702312011

Launch workflow

Release Control

Consumables

Autoinjector

Inject

Back

Forward

Back

Next

Over

End

ISO

Filter

Acq

Status

Queue

SSL Info

Hit type: SSL

Carrier mode: RowCID

Split mode: Split

Center pressure: 0.3467 [bar]

Column flow: 1.459 [ml/min]

Purge flow: 5.000 [ml/min]

Split flow: 25.0 [ml/min]

Temperature: 80 [°C]

Actual

Setpoint

Column Functions

Column Properties

Leak Check

Column Evaluation

Run #	Date	Time	Retention Time	Device	Message
1	6/26/2024	11:17:42 AM +07:00		GC	New detected run state: Waiting for prep-run key
2	6/26/2024	11:17:41 AM +07:00		GC	Log Run/State: Standby
3	6/26/2024	11:17:36 AM +07:00		GC	New detected run state: Waiting for equilibration time
4	6/26/2024	11:17:08 AM +07:00		GC	New detected run state: Waiting for ready
5	6/26/2024	11:17:06 AM +07:00		GC	New detected run state: Waiting for equilibration time
6	6/26/2024	11:17:06 AM +07:00		GC	Log Run/State: MultiReady
7	6/26/2024	11:17:05 AM +07:00		GC	GC Frontline: Temperature Normal = 80 °C
8	6/26/2024	11:12:45 AM +07:00		GC	New detected run state: Waiting for prep-run key
9	6/26/2024	11:12:44 AM +07:00		GC	Log Run/State: Standby
10	6/26/2024	11:12:39 AM +07:00		GC	New detected run state: Waiting for equilibration time
11	6/26/2024	10:49:00 AM +07:00		GC	New detected run state: Waiting for ready

11:18 AM 6/26/2024 ISO702312011

Chromleon Console

File Edit View Tools Help

Thermo Scientific GCMS Home Front Panel Back Panel Open Backdoor ISO Filter Aux Setup Queue

Overview
IS0762312011
IS0762312011

Status SSL

Head type: SSL

Gas saver: On

Carrier mode: FlowCell

Split mode: Split

Carrier pressure: 0.3467 [bar]

Column flow: 1.459 [ml/min]

Purge flow: 5.000 [ml/min]

Split flow: 25.0 [ml/min]

Temperature: 100 [°C]

Actual Split

Column Functions

Column Properties

Leak Check

Column Evaluation

1	2	3	4	5	6	7	8	9	10	11
Date	Time	Retention Time	Device	Message						
6/25/2024	11:20:18 AM +07:00		GC	New detailed run state: Waiting for prep-run key						
6/25/2024	11:20:17 AM +07:00		GC	Log RunState: Standby						
6/25/2024	11:20:12 AM +07:00		GC	New detailed run state: Waiting for equilibration time						
6/25/2024	11:19:45 AM +07:00		GC	New detailed run state: Waiting for ready						
6/25/2024	11:19:44 AM +07:00		GC	New detailed run state: Waiting for equilibration time						
6/25/2024	11:19:43 AM +07:00		GC	Log RunState: HighReady						
6/25/2024	11:19:42 AM +07:00		GC	GC Frontlet: Temperature Nominal = 100 °C						
6/25/2024	11:17:42 AM +07:00		GC	New detailed run state: Waiting for prep-run key						
6/25/2024	11:17:41 AM +07:00		GC	Log RunState: Standby						
6/25/2024	11:17:36 AM +07:00		GC	New detailed run state: Waiting for equilibration time						
6/25/2024	11:17:00 AM +07:00		GC	New detailed run state: Waiting for ready						

Copy Report Filter Normal Find Next Find Previous

11:20 AM 6/25/2024 IS07610



PT. WIRALAB ANALITIKA SOLUSINDO

Business Park Kebon Jeruk Blok G No.8
 Jl. Meruya Ilir No.88, Meruya Utara, Jakarta 11620
 Tel: (62-21 25684021) (Hunting)
 Email: csthermo@wiralab.co.id / sales@wiralab.co.id
 Website: www.wiralabanalitika.com

Branch Surabaya; Gedung Bumi Mandiri Tower II, 8thfloor No. 810
 Jl. Panglima Sudirman 66-68, Surabaya
 (031) 99253553

JOB REPORT

JR. NO : NS/03/26/2024

SO. NO : _____

COMPANY : <u>LAB TERPADU KIMIA UNS</u>	CONTACT PERSON :
ADDRESS : <u>Jl. Ir. Sutami No. 36, Jebres, Surakarta</u>	TEL/FAX :
<u>Jawa Tengah 57126</u>	EMAIL :

SUBJECT OF WORK :	<input checked="" type="checkbox"/> INST/COMM	<input checked="" type="checkbox"/> SITE CAL/PM/IOQ	<input type="checkbox"/> ONSITE REPAIR	<input type="checkbox"/> WORKSHOP REPAIR	<input type="checkbox"/> TRAINING	<input type="checkbox"/> OTHER
INSTRUMENT UNDER :	<input type="checkbox"/> WARRANTY	<input type="checkbox"/> CONTRACT	<input type="checkbox"/> PER CALL	<input type="checkbox"/> RENTAL	<input type="checkbox"/> OTHER	

LIST OF INSTRUMENT SERVICE			
NAME	MODEL NO.	FIRMWARE	SERIAL NO.
AAS Furnace	GF535Z		GF 06234601
Autosampler Furnace			GF 01234601
Chiller	Thermoplex 900		1153694201240124

COMPLAINT : Installation & Training

WORK DESCRIPTION :	(1) FAULT	(2) ACTION TAKEN
- Unboxing instrument & accessories		
- Electrical installation		
- Instrument installation		
- Calibration & Performance Qualification		
Furnace Mn 20 ppb 5x resample : A : 0,9622		PASS
	% RSD : 0,8%	
Flame Ni 10 ppm 10x resample : A : 1,1981		PASS
	% RSD : 0,2%	
- Operational training		
- Change graphite replacement		
- How to turn on & turn off		
- Analysis of Pb & Cd		
- Maintenance training		

RECOMMENDATION :

JOB STATUS : COMPLETED IN PROGRESS OTHERS QUOTATION : QUOTED TO QUOTED

DATE	<u>26-06-2024</u>	<u>27-06-2024</u>	<u>28-06-2024</u>		
START TIME	<u>08.00</u>	<u>08.00</u>	<u>08.00</u>		
END TIME	<u>21.00</u>	<u>21.00</u>			

*LIST OF PART USED		W - WARRANTY CLAIM	S - STOCK
DESCRIPTION	PART NO.	QTY.	*FROM

CUSTOMER NAME : Wahyuningrum

Operational Qualification: Column Oven Test

Description of the Tested System

Name of CM Server:	GC_TRACE_1310		
Name of Timebase:	GC_TRACE_1310_MS_ISQ7610		
Installed Instruments:			
Name of Instrument:	Supplier:	Model:	Serial Number:
Gas Chromatography	Thermo Scientific	TRACE 1310	720100902
Mass Spectrometer	Thermo Scientific	ISQ 7610	ISQ762312011
SSL Injector	Thermo Scientific	TRACE 1300 SSL	723302511

Test Description

Tested Instrument:	Gas Chromatography Mass Spectrometer
Tested Functionality:	Column Oven Temperature

Column Oven Temperature Test		
Test point	OQ Limits	Result
40 °C	± 2 °C	40.0 °C
120 °C	± 2 °C	120.0 °C

<input checked="" type="checkbox"/> Test Passed	<input type="checkbox"/> Test Failed	<input checked="" type="checkbox"/> Attachment(s)
---	--------------------------------------	---



MK Muaddib
Operator

26 Juni 2024
Date of Performance

PT Wiralab Analitika Solusindo
Company

Chromleon Control Console

Back Create File Edit View Tools Help

Instruments

Overview

ISO76212011

ISO76212011

Launch Workflow Release Control Consumables Autogenerated Detach ePanel

Thermo Scientific GC/MS Home

Forward Backlist Over BackDetector ISO Eler Audit Status Queue

Status Oven

Rin soak Standby Equilibrate time: 0:10 [min]

Waiting for: Prep run timeout: 599:00 [min]

Temperature

Temperature control: On

Actual: 40.0 [C] Setpoint: 40.0 [C]

0 50 100 150 200 250 300 350 400 450 °C

Message

Date	Time	Operation	Device
9/26/2024	12:21:55 PM -07:00	New desalter run state: 'Waiting for prep-run key'	GC
9/26/2024	12:24:55 PM -07:00	Log RunState: Standby	GC
9/26/2024	12:24:50 PM -07:00	New desalter run state: 'Waiting for equilibration time'	GC
9/26/2024	12:24:07 PM -07:00	New desalter run state: 'Waiting for ready'	GC
9/26/2024	12:24:06 PM -07:00	Log Temperature Normal: 40.0 °C	GC
9/26/2024	12:24:06 PM -07:00	Log RunState: 'InPrep'	GC
9/26/2024	12:24:05 PM -07:00	GC Temperature Normal: -40.0 °C	GC
9/26/2024	12:24:05 PM -07:00	New desalter run state: 'Waiting for prep-run key'	GC
9/26/2024	12:20:55 PM -07:00	Log RunState: Standby	GC
9/26/2024	12:20:04 PM -07:00	New desalter run state: 'Waiting for equilibration time'	GC
9/26/2024	12:20:04 PM -07:00	Log KC: active: 0.1617	GC

12:25 PM 9/26/2024 ISO7610





PT. WIRALAB ANALITIKA SOLUSINDO

Business Park Kebayoran Baru Blok G No.8
 Jl. Meruya Ith No.8 Meruya Utara, Jakarta 11620
 Tel: (62-21 25 940 1) (Hunting)
 Email: cst@wiralab.co.id / sales@wiralab.co.id
 Website: www.wiralab.co.id / wiralab.com
 Branch Surabaya; Gedung Bumi Mandiri Tower II, 8th floor No. 810
 Jl. Panglima Sudirman 66-68, Surabaya
 (031) 99253533

JOB REPORT

JR. NO : NS/03/26/2024

SO. NO : _____

COMPANY : LAB TERPADU KIMIA UNS CONTACT PERSON : _____
 ADDRESS : Jl. Ir. Sutami No. 36, Jebres, Surakarta TEL/FAX : _____
Jawa Tengah 57126 EMAIL : _____

SUBJECT OF WORK : INST/COMM SITE CAL/PM/IOQ ONSITE REPAIR WORKSHOP REPAIR TRAINING OTHER
 INSTRUMENT UNDER : WARRANTY CONTRACT PER CALL RENTAL OTHER

LIST OF INSTRUMENT SERVICE			
NAME	MODEL NO.	FIRMWARE	SERIAL NO.
AAS Furnace	6FS 35 Z		6F 06234601
Autosampler Furnace			6F 01234601
Chiller	Thermoplex 900		1153694201240124

COMPLAINT : Installation & Training

WORK DESCRIPTION :	(1) FAULT	(2) ACTION TAKEN
- Unboxing instrument & accessories		
- Electrical installation		
- Instrument installation		
- Calibration & Performance Qualification		
Furnace Mn 20 ppb 5x resample : A = 0,9622 PASS %RSD = 0,8%		
Flame Ni 10 ppm 10x resample : A = 1,1981 PASS %RSD = 0,2%		
- Operational training		
- Cuvette graphite replacement		
- How to turn on & turn off		
- Analysis of Pb & Cd		
- Maintenance training		

RECOMMENDATION :

JOB STATUS : COMPLETED IN PROGRESS OTHERS QUOTATION : QUOTED TO QUOTED

DATE	26-06-2024	27-06-2024	28-06-2024
START TIME	08.00	08.00	08.00
END TIME	21.00	21.00	

*LIST OF PART USED		W - WARRANTY CLAIM	S - STOCK
DESCRIPTION	PART NO.	QTY.	*FROM

CUSTOMER NAME : Wahyuningrum
WT ULS. Terpadu Kimia
 SIGN : _____ DATE : 28/6-2024


ENGINEER NAME : Arisbyan Jati
 SIGN : _____
 DATE : 28 June 2024

COMPANY'S SIGNATURE

Warranty Card

Installation date : 28 June 2024

Engineer name : Aristya Jati



Stamp & Sign

PT. Wiralab Analitika Solusindo

Business Park Kebon Jeruk G8
 Jl. Meruya Ilir No. 88
 Meruya Utara, Jakarta 11620
 Indonesia

Tel : (62-21) 25684021
 sales@wiralab.co.id
 www.wiralabanalitika.com

CUSTOMER INFORMATION

Institution : Universitas Negeri Sebelas Maret Surakarta

Department : Laboratorium Kimia Terpadu

Address : Jl. Ir. Sutami No. 36, Jebres, Surakarta

Phone/Fax : _____


E-mail : _____

Supplier : PT. Wiralab Analitika Solusindo

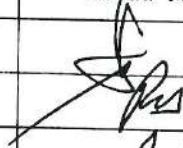





Instrument List


No	Instrument	Serial Number
1	Grafit Furnace GFS 35 Zeeman	06234601
2	Autosampler Furnace	01234601
3	UPS Tensa APS-110L 10KVA/8000W	2403270015
4	Chiller Thermo Flex 900	1153694201240124

	DAFTAR HADIR PESERTA TRAINING	Tanggal : 26 - 28 Juni 2024
	Laboratorium Kimia Terpadu UNS	
Judul : Thermo Scientific - GFS 35 Zeeman AAS Furnace Training		

DAFTAR HADIR KEGIATAN

No	Nama	Jabatan	Tanda Tangan
1	SUBITO	PLP	
2	Sumar wantu	teknisi	
3	stiwati wahyuni	stafis	
4	Fajar R Wicaksono	Ra Ptu	
5			
6			
7			
8			
9			
10			
11			
12			
13			

Mengetahui,



(Arisbya Bambang Nugroho Jati)
Customer Support Engineer

☎ (+6221) 25684021 (ext. 030, 031, 025)

@ sales@wiralab.co.id

🌐 wiralab.co.id

📍 Business Park Kebon Jeruk Unit G No. 8
(P/N BR/0013608, P/N/3087A)
Jl. Raya Arahmanto No. 88 Jakarta 11620



Operator Name: WINDOWS 10

Report Date: 27/06/2024 13:57:50

Results File: C:\Users\WINDOWS 10\Documents\PQ Test 27062024.SLR

General Parameters

Method : Mn Commissioning Test
Autosampler : Furnace

Operator : WINDOWS 10

Instrument Mode: Furnace

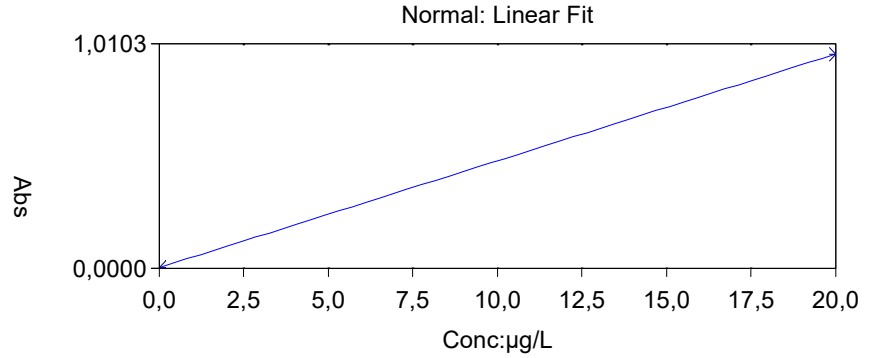
Analysis Details

Analysis Name: PQ Furnace 27/06/2024
Operator Name: Jati

Spectrometer: iCE 3000 05202804 v1,30

Solution Results - Mn

Y = 0,04805x + 0,0013
Fit: 1,0000
Characteristic Conc: 0,0916



Sample ID	Signal Abs (Height)	Rsd %	Conc µg/L	Corrected Conc µg/L	Auto Dilution
Mn Blank	0,0013	40,3	0,0000		
1	0,0017	Background: 0,0000		27/06/2024 12:52:00	
2	0,0015	Background: 0,0005		27/06/2024 12:53:36	
3	0,0018	Background: 0,0002		27/06/2024 12:55:13	
4	0,0009	Background: 0,0006		27/06/2024 12:56:49	
5	0,0006	Background: -0,0001		27/06/2024 12:58:26	
Mn Standard 1	0,9622	0,8	20,0000		
1	0,9611	Background: 0,5216		27/06/2024 13:00:03	
2	0,9667	Background: 0,5251		27/06/2024 13:01:39	
3	0,9512	Background: 0,5300		27/06/2024 13:03:15	
4	0,9602	Background: 0,5297		27/06/2024 13:04:51	
5	0,9720	Background: 0,5348		27/06/2024 13:06:28	
Mn Sample ID 1	0,9649	1,1	20,0549 C	20,0549 C	1,000
1	0,9538	Background: 0,5348		27/06/2024 13:08:05	
2	0,9725	Background: 0,5283		27/06/2024 13:09:42	
3	0,9603	Background: 0,5318		27/06/2024 13:11:19	
4	0,9584	Background: 0,5298		27/06/2024 13:12:55	
5	0,9794	Background: 0,5369		27/06/2024 13:14:31	



Operator Name: WINDOWS 10

Report Date: 27/06/2024 13:57:05

Results File: C:\Users\WINDOWS 10\Documents\PQ Test 27062024.SLR

General Parameters

Method : Mn Commissioning Test
Autosampler : Furnace

Operator : WINDOWS 10

Instrument Mode: Furnace

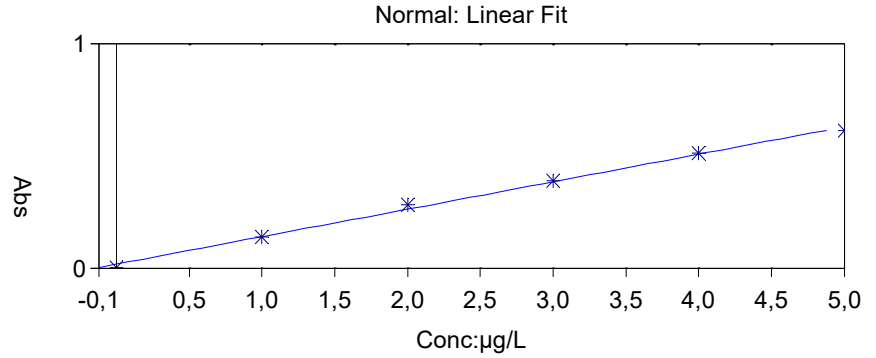
Analysis Details

Analysis Name: Analysis 7 27/06/2024
Operator Name: WINDOWS 10

Spectrometer: iCE 3000 05202804 v1,30

Solution Results - Mn

Y = 0,12228x + 0,0171
Fit: 0,9967
Characteristic Conc: 0,0360



Sample ID	Signal Abs (Height)	Rsd %	Conc µg/L	Corrected Conc µg/L	Auto Dilution
Mn Blank	0,0021	17,2	0,0000		
1	0,0018	Background: 0,0004		27/06/2024 13:26:25	
2	0,0023	Background: 0,0004		27/06/2024 13:28:02	
Mn Standard 1	0,1397	3,3	1,0000		
1	0,1429	Background: 0,0873		27/06/2024 13:29:39	
2	0,1364	Background: 0,0833		27/06/2024 13:31:16	
Mn Standard 2	0,2807	2,3	2,0000		
1	0,2852	Background: 0,1598		27/06/2024 13:32:53	
2	0,2761	Background: 0,1542		27/06/2024 13:34:30	
Mn Standard 3	0,3898	1,4	3,0000		
1	0,3860	Background: 0,2044		27/06/2024 13:36:07	
2	0,3936	Background: 0,2089		27/06/2024 13:37:44	
Mn Standard 4	0,5113	0,9	4,0000		
1	0,5144	Background: 0,2563		27/06/2024 13:39:21	
2	0,5081	Background: 0,2534		27/06/2024 13:40:58	
Mn Standard 5	0,6133	0,8	5,0000		
1	0,6098	Background: 0,2902		27/06/2024 13:42:35	
2	0,6167	Background: 0,2945		27/06/2024 13:44:13	
Mn Std 20 FP 5x	0,5193	0,0	4,1071	20,5356	5,000
1	0,5194	Background: 0,2576		27/06/2024 13:45:50	
2	0,5192	Background: 0,2586		27/06/2024 13:47:27	



Operator Name: WINDOWS 10

Report Date: 27/06/2024 14:14:45

Results File: C:\Users\WINDOWS 10\Documents\PQ Test 27062024.SLR

General Parameters

Method : Ni Commissioning Test
Autosampler : None
Use SFI: No

Operator : Jati

Instrument Mode: Flame
Dilution: None

Analysis Details

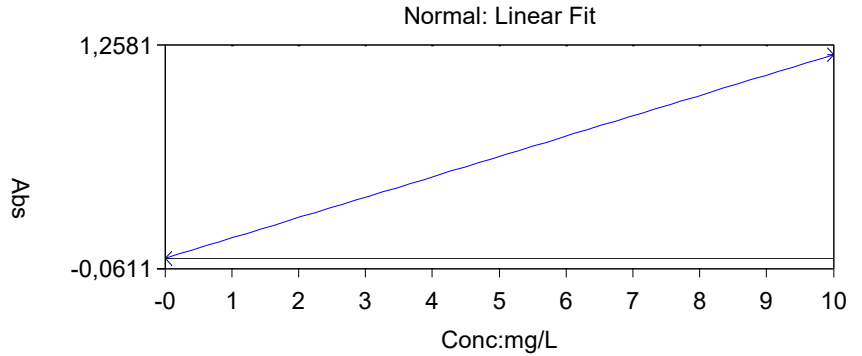
Analysis Name: PQ Flame 27/06/2024

Spectrometer: iCE 3000 05202804 v1,30

Operator Name: Jati

Solution Results - Ni

Y = 0,11993x - 0,0012
Fit: 1,0000
Characteristic Conc: 0,0367



Sample ID	Signal Abs	Rsd %	Conc mg/L	Corrected Conc mg/L	Auto Dilution
Ni Blank	-0,0012	27,6	0,0000		
1	-0,0008	Background: 0,0014			27/06/2024 14:09:21
2	-0,0007	Background: 0,0019			27/06/2024 14:09:25
3	-0,0009	Background: 0,0021			27/06/2024 14:09:29
4	-0,0009	Background: 0,0016			27/06/2024 14:09:33
5	-0,0012	Background: 0,0021			27/06/2024 14:09:38
6	-0,0011	Background: 0,0021			27/06/2024 14:09:42
7	-0,0015	Background: 0,0026			27/06/2024 14:09:46
8	-0,0015	Background: 0,0015			27/06/2024 14:09:51
9	-0,0012	Background: 0,0028			27/06/2024 14:09:55
10	-0,0016	Background: 0,0028			27/06/2024 14:09:59
Ni Standard 1	1,1981	0,2	10,0000		
1	1,1930	Background: 0,0091			27/06/2024 14:10:20
2	1,1986	Background: 0,0102			27/06/2024 14:10:24
3	1,2001	Background: 0,0098			27/06/2024 14:10:28
4	1,2030	Background: 0,0098			27/06/2024 14:10:33
5	1,1982	Background: 0,0097			27/06/2024 14:10:37
6	1,1989	Background: 0,0100			27/06/2024 14:10:42
7	1,1970	Background: 0,0096			27/06/2024 14:10:46
8	1,1974	Background: 0,0096			27/06/2024 14:10:50
9	1,2002	Background: 0,0100			27/06/2024 14:10:54
10	1,1947	Background: 0,0094			27/06/2024 14:10:59
Ni Ni 10 ppm	1,1956	0,5	9,9789	9,9789	1,000
1	1,1904	Background: 0,0092			27/06/2024 14:11:23
2	1,1963	Background: 0,0101			27/06/2024 14:11:27
3	1,1978	Background: 0,0097			27/06/2024 14:11:31
4	1,1966	Background: 0,0099			27/06/2024 14:11:36
5	1,2032	Background: 0,0103			27/06/2024 14:11:40
6	1,2027	Background: 0,0102			27/06/2024 14:11:44
7	1,1947	Background: 0,0098			27/06/2024 14:11:49
8	1,1973	Background: 0,0101			27/06/2024 14:11:53
9	1,1917	Background: 0,0089			27/06/2024 14:11:57
10	1,1851	Background: 0,0086			27/06/2024 14:12:02





Thermo Fisher
Type: 021-8312 Zirconium
Part No: 021-8312 Zirconium
Lot: 021-8312 Zirconium
Exp. Date: 021-8312 Zirconium

TENS
215
215 GF

US-168488
HT

7699697

UPS

Interruptible Power Supply
Online Low Frequency
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