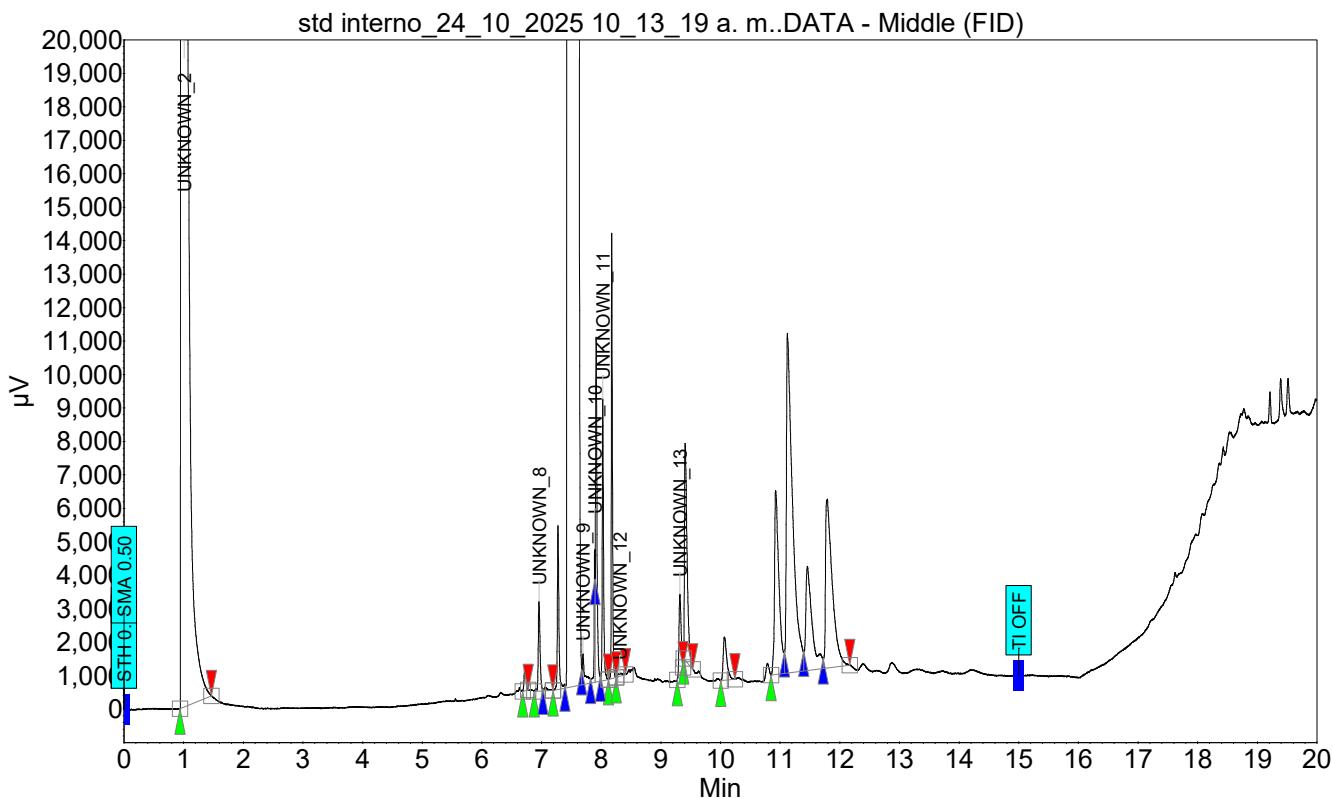


Chromatogram : std interno_24_10_2025

System : 450-GC
Method : biodiesel_FAME2023
User : User4

Acquired : 24/10/2025 10:16:10 a. m.
Processed : 27/10/2025 11:42:25 a. m.
Printed : 27/10/2025 01:34:07 p. m.



CHROMATOGRAM METHOD REPORT :

Control method :

Scion/Bruker/Varian 400-GC Series (Excl)

Autosampler (8410)

Autosampler	ENABLED
First injector used	Position 2
Syringe volume	10 uL
Advance tray	NO
Clean between injections	NO
Use injection delay	NO
Delay between injections	1.0 min
Injection mode	Std (Split/Splitless)
Sample penetration depth	90 %
Solvent penetration depth	90 %

Abort clean

Chromatogram : std interno_24_10_2025

System : 450-GC
Method : Diode-Cell FAME 2023
User : User4

10-13-19 a. m._channel1

Acquired : 24/10/2025 10:16:10 a. m.
Processed : 27/10/2025 11:42:25 a. m.
Printed : 27/10/2025 01:34:07 p. m.

Vial	I
Volume	5.0 μ L
Strokes	1
Drawup speed	5.0 μ L/s

Clean mode

Pre-injection solvent flushes	3
Pre-injection sample flushes	0
Post-injection solvent flushes	5
Clean solvent source	I

Injectors

Front (PWOC)

EFC 23 - Flow program	Rate (mL/min/min)	Step (mL/min)	Time (min)
	Initial	10.0	0.00
		Total time	0.00

EFC 23

Enabled OFF

Heat-only zone 1

Heater	OFF
Setpoint	50 °C

Middle (S/SL)

Chromatogram : std interno_24_10_2025

System : 450-GC
Method : Biodiesel FAME 2023
User : User4

Acquired : 24/10/2025 10:16:10 a. m.
Processed : 27/10/2025 11:42:25 a. m.
Printed : 27/10/2025 01:34:07 p. m.

Split event table	Time (min)	Split state	Split ratio
	Initial	ON	25

EFC 25

Enabled ON

Heat-only zone 2

Heater	ON
Setpoint	230 °C

Column oven

Stabilization time | 0.50 min

Column oven zone

Heater ON

Temperature program	Rate (°C/min)	Step (°C)	Time (min)
	Initial	100	4.00
	25.0	200	8.00
	20.0	250	5.00
		Total time	23.50

Valve oven

Rear (Small valve oven)

Heat-only zone 3

Heater	OFF
Setpoint	50 °C

Columns

Front

Chromatogram : std interno_24_10_2025

System : 450-GC
Method : Diode-Cell FAME 2023
User : User4

10-13-19 a. m._channel1

Acquired : 24/10/2025 10:16:10 a. m.
Processed : 27/10/2025 11:42:25 a. m.
Printed : 27/10/2025 01:34:07 p. m.

Carrier gas	Helium
Length	15.00 m
Inside diameter	200 um
Type	WCOT

Middle

Carrier gas	Helium
Length	30.00 m
Inside diameter	320 um
Type	PLOT

Pressure mode	Constant flow
Column flow	2.20 mL/min
Pressure pulse	DISABLED

Detectors

Heat-only zone 4

Heater	OFF
Setpoint	50 °C

Front (TCD)

Electronics	OFF
Time constant	Fast
Data rate	10 Hz

Filament temp. limit	390 °C
Filament temperature	50 °C

TCD event table	Time (min)	Range	Autozero	Polarity
	Initial	0.05	YES	POSITIVE

Chromatogram : std interno_24_10_2025

System : 450-GC
Method : Diode-Cell FAME 2023
User : User4

Acquired : 24/10/2025 10:16:10 a. m.
Processed : 27/10/2025 11:42:25 a. m.
Printed : 27/10/2025 01:34:07 p. m.

EFC 14

Enabled	OFF
Make-up (Helium) flow	25 mL/min
Reference (Helium) flow	30.0 mL/min

Heat-only zone 5

Heater	ON
Setpoint	250 °C

Middle (FID)

Electronics	ON
Time constant	Fast
Data rate	10 Hz

FID event table	Time (min)	Range	Autozero
	Initial	12	YES

EFC 11

Enabled	ON
Make-up (Nitrogen) flow	28 mL/min
Combustion (H2) flow	30.0 mL/min
Combustion (Air) flow	300.0 mL/min

Ouput ports

Front

ENABLED	NO
---------	----

Output port program	Time (min)	Detector source	Attenuation (2^X)
	Initial	Front	0

Middle

Chromatogram : std interno_24_10_2025

System : 450-GC
Method : Diode-Cell FAME 2023
User : User4

Acquired : 24/10/2025 10:16:10 a. m.
Processed : 27/10/2025 11:42:25 a. m.
Printed : 27/10/2025 01:34:07 p. m.

ENABLED | NO

Output port program	Time (min)	Detector source	Attenuation (2^X)
	Initial	Middle	0

Rear

ENABLED | NO

Output port program	Time (min)	Detector source	Attenuation (2^X)
	Initial	Rear	0

Valves

Valve event table	Time (min)	Gas Sample Valve
	Initial	Fill

Miscellaneous

Start automatically when ready | NO

Acquisition :

Run Name : std interno_24_10_2025 10_13_19 a. m.
Run Id. : -1
Run Time : 24.00

Integration method :

Reduce Noise : Yes
Spike Parameter : 1
Use Relative Threshold ? : Yes
Peak saturation level : min = 0 max = 0

Integration events :

Active	Time	Event	ON	Value
Yes	0.00	Set Peak Width		0.5
Yes	0.00	Set Threshold		0.05
Yes	0.00	Set Minimal Area		0.5
Yes	15.00	Turn Integration	OFF	

Manual actions :

Chromatogram : std interno_24_10_2025

System : 450-GC
Method : Diode-Cell FAME 2023
User : User4

Acquired : 24/10/2025 10:16:10 a. m.
Processed : 27/10/2025 11:42:25 a. m.
Printed : 27/10/2025 01:34:07 p. m.

Manual integration action count : 4

Action #1 : 27/10/2025 11:42:25 a. m. : ADD peak between t=6.682 and t=6.773
Action #2 : 27/10/2025 11:42:25 a. m. : SPLIT peak # 5 at 7.67
Action #3 : 27/10/2025 11:42:25 a. m. : SPLIT peak # 6 at 7.90
Action #4 : 27/10/2025 11:42:25 a. m. : ADD peak between t=9.383 and t=9.536

Peak Identification table :

Peak Name	RT [min]	Abs.Window[min]	Window %	Ref?	Mode
UNKNOWN_2	1.14	0.20	0.00		Nearest
heptano	1.48	0.20	0.00		Nearest
UNKNOWN_4	2.11	0.20	0.00		Nearest
UNKNOWN_5	4.10	0.20	0.00		Nearest
UNKNOWN_6	5.86	0.20	0.00		Nearest
UNKNOWN_7	6.93	0.20	0.00		Nearest
UNKNOWN_8	6.96	0.20	0.00		Nearest
UNKNOWN_9	7.71	0.20	0.00		Nearest
UNKNOWN_10	7.84	0.20	0.00		Nearest
UNKNOWN_11	8.04	0.20	0.00		Nearest
UNKNOWN_12	8.41	0.20	0.00		Nearest
UNKNOWN_13	9.32	0.20	0.00		Nearest
UNKNOWN_1	9.54	0.20	0.00		Nearest
UNKNOWN_14	10.71	0.20	0.00		Nearest

Resolve with references : No

Group Identification table :

Group Name	Group type	Parameters

Chromatogram : std interno_24_10_2025

System : 450-GC
 Method : Diode-Cell FAME 2023
 User : User4

Acquired : 24/10/2025 10:16:10 a. m.
 Processed : 27/10/2025 11:42:25 a. m.
 Printed : 27/10/2025 01:34:07 p. m.

Peak results :

Index	Name	Time [Min]	Quantity [% Area]	Height [µV]	Area [µV.Min]	Area % [%]
1	UNKNOWN 2	0.96	98.32	688850008.3	5295640.2	98.323
16	UNKNOWN	6.72	0.00	740.8	27.5	0.001
2	UNKNOWN 8	6.96	0.00	2680.7	93.3	0.002
3	UNKNOWN	7.06	0.00	106.2	7.0	0.000
4	UNKNOWN	7.28	0.00	4894.9	147.5	0.003
5	UNKNOWN	7.43	1.59	952501.6	85870.5	1.594
17	UNKNOWN 9	7.70	0.00	922.9	46.6	0.001
6	UNKNOWN 10	7.89	0.00	3983.0	69.6	0.001
18	UNKNOWN	7.92	0.01	10303.3	279.2	0.005
7	UNKNOWN 11	8.03	0.00	8421.1	210.7	0.004
8	UNKNOWN	8.18	0.01	13313.0	291.3	0.005
9	UNKNOWN 12	8.31	0.00	78.4	8.2	0.000
10	UNKNOWN 13	9.32	0.00	2391.4	96.3	0.002
19	UNKNOWN	9.41	0.01	6471.3	328.6	0.006
11	UNKNOWN	10.07	0.00	1295.0	91.1	0.002
12	UNKNOWN	10.93	0.01	5503.0	477.5	0.009
13	UNKNOWN	11.12	0.02	10155.0	1234.3	0.023
14	UNKNOWN	11.46	0.01	3102.2	386.4	0.007
15	UNKNOWN	11.79	0.01	5050.1	662.3	0.012
Total			100.00	689881922.3	5385968.0	100.000

CHROMATOGRAM METHOD REPORT :

Control method :

Scion/Bruker/Varien 400-GC Series (Exclu

Autosampler (8410)

Autosampler	ENABLED
First injector used	Position 2
Syringe volume	10 µL
Advance tray	NO
Clean between injections	NO
Use injection delay	NO
Delay between injections	1.0 min
Injection mode	Std (Split/Splitless)
Sample penetration depth	90 %
Solvent penetration depth	90 %

Abort clean

Vial	I
Volume	5.0 µL
Strokes	1
Drawup speed	5.0 µL/s

Chromatogram : std interno_24_10_2025

System : 450-GC
Method : Diode-EL FAME 2023
User : User4

Acquired : 24/10/2025 10:16:10 a. m.
Processed : 27/10/2025 11:42:25 a. m.
Printed : 27/10/2025 01:34:07 p. m.

Clean mode

Pre-injection solvent flushes	3
Pre-injection sample flushes	0
Post-injection solvent flushes	5
Clean solvent source	1

Injectors

Front (PWOC)

EFC 23 - Flow program	Rate (mL/min/min)	Step (mL/min)	Time (min)
	Initial	10.0	0.00
		Total time	0.00

EFC 23

Enabled OFF

Heat-only zone 1

Heater	OFF
Setpoint	50 °C

Middle (S/SL)

Split event table	Time (min)	Split state	Split ratio
	Initial	ON	25

EFC 25

Chromatogram : std interno_24_10_2025

System : 450-GC
Method : Biodiesel FAME 2023
User : User4

Acquired : 24/10/2025 10:16:10 a. m.
Processed : 27/10/2025 11:42:25 a. m.
Printed : 27/10/2025 01:34:07 p. m.

Enabled	ON
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Heat-only zone 2

Heater	ON
Setpoint	230 °C

Column oven

Stabilization time	0.50 min
--------------------	----------

Column oven zone

Heater	ON
--------	----

Temperature program	Rate (°C/min)	Step (°C)	Time (min)
	Initial	100	4.00
	25.0	200	8.00
	20.0	250	5.00
		Total time	23.50

Valve oven

Rear (Small valve oven)

Heat-only zone 3

Heater	OFF
Setpoint	50 °C

Columns

Front

Carrier gas	Helium
Length	15.00 m
Inside diameter	200 um
Type	WCOT

Chromatogram : std interno_24_10_2025

System : 450-GC
Method : Diode-Cell FAME 2023
User : User4

10-13-19 a. m._channel1

Acquired : 24/10/2025 10:16:10 a. m.
Processed : 27/10/2025 11:42:25 a. m.
Printed : 27/10/2025 01:34:07 p. m.

Middle

Carrier gas	Helium
Length	30.00 m
Inside diameter	320 um
Type	PLOT

Pressure mode	Constant flow
Column flow	2.20 mL/min
Pressure pulse	DISABLED

Detectors

Heat-only zone 4

Heater	OFF
Setpoint	50 °C

Front (TCD)

Electronics	OFF
Time constant	Fast
Data rate	10 Hz

Filament temp. limit	390 °C
Filament temperature	50 °C

TCD event table	Time (min)	Range	Autozero	Polarity
	Initial	0.05	YES	POSITIVE

EFC 14

Enabled	OFF
Make-up (Helium) flow	25 mL/min
Reference (Helium) flow	30.0 mL/min

Chromatogram : std interno_24_10_2025

System : 450-GC
Method : biodiesel FAME 2023
User : User4

Acquired : 24/10/2025 10:16:10 a. m.
Processed : 27/10/2025 11:42:25 a. m.
Printed : 27/10/2025 01:34:07 p. m.

Heat-only zone 5

Heater	ON
Setpoint	250 °C

Middle (FID)

Electronics	ON
Time constant	Fast
Data rate	10 Hz

FID event table	Time (min)	Range	Autozero
	Initial	12	YES

EFC 11

Enabled	ON
Make-up (Nitrogen) flow	28 mL/min
Combustion (H ₂) flow	30.0 mL/min
Combustion (Air) flow	300.0 mL/min

Output ports

Front

ENABLED	NO
---------	----

Output port program	Time (min)	Detector source	Attenuation (2 ^X)
	Initial	Front	0

Middle

ENABLED	NO
---------	----

Output port program	Time (min)	Detector source	Attenuation (2 ^X)
	Initial	Middle	0

Chromatogram : std interno_24_10_2025

System : 456-GC
Method : Diode-Cell FAME 2023
User : User4

Acquired : 24/10/2025 10:16:10 a. m.
Processed : 27/10/2025 11:42:25 a. m.
Printed : 27/10/2025 01:34:07 p. m.

Rear

ENABLED NO

Output port program	Time (min)	Detector source	Attenuation (2^X)
	Initial	Rear	0

Valves

Valve event table	Time (min)	Gas Sample Valve
	Initial	Fill

Miscellaneous

Start automatically when ready NO

Acquisition :

System : 456-GC

Project : Aceites

Run Name : std interno_24_10_2025 10_13_19 a. m.

Description

Run Id. : -1

Run Time : 24.00

Vial : 2

Rack : 0

Analysis : Unknown

Injection volume : 1.00

Scale :

RT Min : 0.00

RT Max : 20.00

Y Min : -1,000.00

Y Max : 20,000.00

Divisor factor : 1.00

Multiplier factor : 1.00

Sample mass : 0.00

Run log :

Injection report for Position 2

Injection occurred at 24/10/2025 10:16:10 a. m.

Chromatogram : std interno_24_10_2025

System : 450-GC
Method : Diode-EL FAME 2023
User : User4

Acquired : 24/10/2025 10:16:10 a. m.
Processed : 27/10/2025 11:42:25 a. m.
Printed : 27/10/2025 01:34:07 p. m.

Scion/Bruker/Varian 400-GC Series (Excl [Scion/Bruker/Varian 400-GC Series (Excluding 430)])
Wrapper 5.0.8.31952
Firmware 32834
Driver 4.1.0.394

Preprocessing :
Blank Subtract :

File:
N.A.

Integration method :
Reduce Noise : Yes
Spike Parameter : 1
Use Relative Threshold ? : Yes
Peak saturation level : min = 0 max = 0

Integration events :

Active	Time	Event	ON	Value
Yes	0.00	Set Peak Width		0.5
Yes	0.00	Set Threshold		0.05
Yes	0.00	Set Minimal Area		0.5
Yes	15.00	Turn Integration	OFF	

Manual actions :

Manual integration action count : 4
Action #1 : 27/10/2025 11:42:25 a. m. : ADD peak between t=6.682 and t=6.773
Action #2 : 27/10/2025 11:42:25 a. m. : SPLIT peak # 5 at 7.67
Action #3 : 27/10/2025 11:42:25 a. m. : SPLIT peak # 6 at 7.90
Action #4 : 27/10/2025 11:42:25 a. m. : ADD peak between t=9.383 and t=9.536

Peak Identification table :

Peak Name	RT [min]	Abs.Window[min]	Window %	Ref?	Mode
UNKNOWN_2	1.14	0.20	0.00		Nearest
heptano	1.48	0.20	0.00		Nearest
UNKNOWN_4	2.11	0.20	0.00		Nearest
UNKNOWN_5	4.10	0.20	0.00		Nearest
UNKNOWN_6	5.86	0.20	0.00		Nearest
UNKNOWN_7	6.93	0.20	0.00		Nearest
UNKNOWN_8	6.96	0.20	0.00		Nearest
UNKNOWN_9	7.71	0.20	0.00		Nearest
UNKNOWN_10	7.84	0.20	0.00		Nearest
UNKNOWN_11	8.04	0.20	0.00		Nearest
UNKNOWN_12	8.41	0.20	0.00		Nearest
UNKNOWN_13	9.32	0.20	0.00		Nearest
UNKNOWN_1	9.54	0.20	0.00		Nearest
UNKNOWN_14	10.71	0.20	0.00		Nearest

Resolve with references : No

Group Identification table :

Group Name	Group type	Parameters

Calibration Method :

Chromatogram : std interno_24_10_2025

System : 450-GC
Method : Diode-EL FAME 2023
User : User4

10-13-19 a. m._channel1

Acquired : 24/10/2025 10:16:10 a. m.
Processed : 27/10/2025 11:42:25 a. m.
Printed : 27/10/2025 01:34:07 p. m.

Method type : Response %

Response : Area

Standard Unit : g/l

Calibration curve file name :

Factors : Curve

Subtract internal standard mass

Response unit : Curve

Unknown mode : None

Calibration components :

Component	Level 1	Level 2	Level 3	Level 4	Control Sample

Suitability tests :

Export :

File 1 :

Export type : EXCEL

FormatExcel 97/2000

Add a new sheet.

Destination :

File name : SEQNAME

File path : DEFAULT

File ext. : .XLS

Content :

- Peak results (format :)

Post Run :

Print Method :

File name : : default_standard

Copies : 0

Summary :