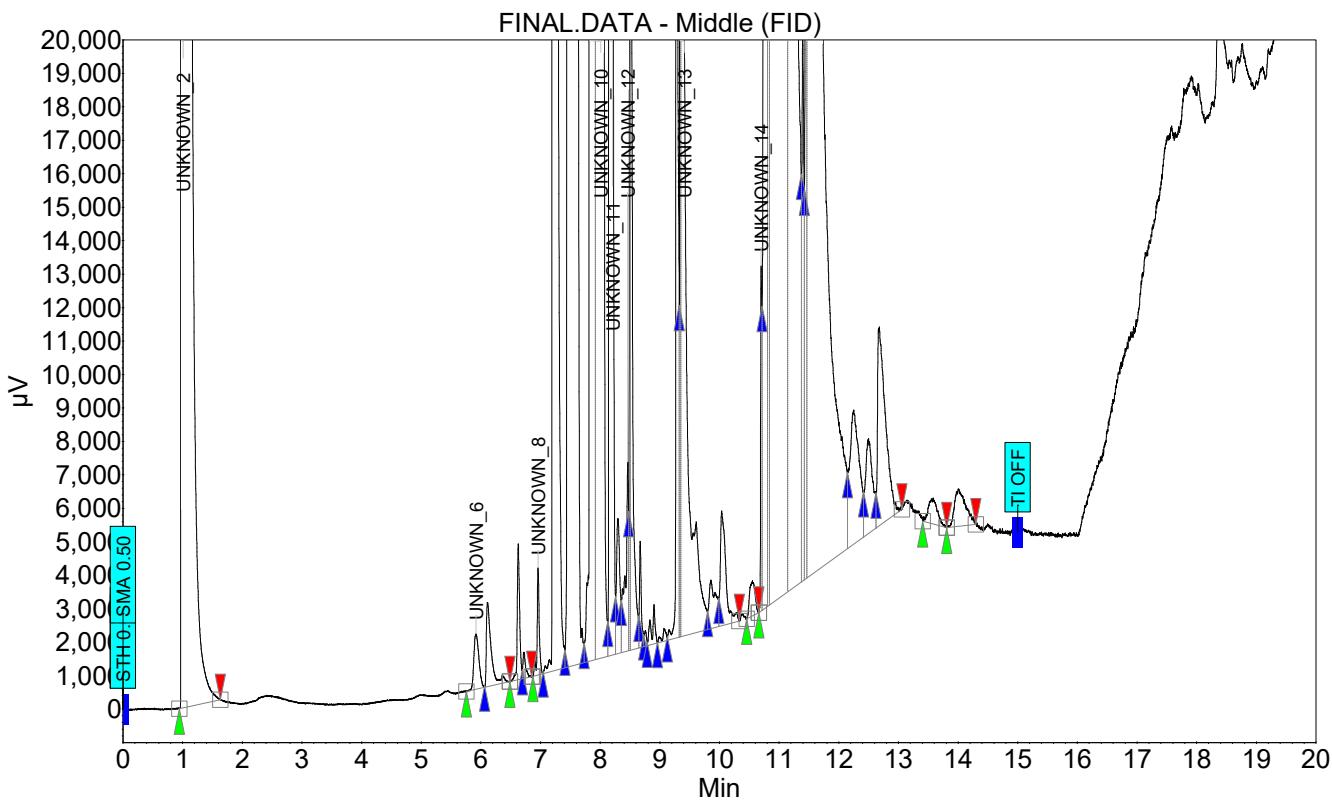


Chromatogram : FINAL_channel1

System : 450-GC
Method : Biodiesel FAME 2023
User : User1

Acquired : 07/11/2025 01:48:31 p. m.
Processed : 21/11/2025 01:07:34 p. m.
Printed : 21/11/2025 01:07:46 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 : FINAL_channel1

System : 450-GC
Method : Biodiesel FAME 2023
User : User1

Acquired : 07/11/2025 01:48:31 p. m.
Processed : 21/11/2025 01:07:34 p. m.
Printed : 21/11/2025 01:07:46 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 : FINAL_channel1

System : 450-GC
Method : Biodiesel FAME 2023
User : User1

Acquired : 07/11/2025 01:48:31 p. m.
Processed : 21/11/2025 01:07:34 p. m.
Printed : 21/11/2025 01:07:46 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 : FINAL_channel1

System : 450-GC
Method : Biodiesel FAME 2023
User : User1

Acquired : 07/11/2025 01:48:31 p. m.
Processed : 21/11/2025 01:07:34 p. m.
Printed : 21/11/2025 01:07:46 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 : FINAL_channel1

System : 450-GC
Method : Biodiesel FAME 2023
User : User1

Acquired : 07/11/2025 01:48:31 p. m.
Processed : 21/11/2025 01:07:34 p. m.
Printed : 21/11/2025 01:07:46 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

Output ports

Front

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

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

Middle

Chromatogram : FINAL_channel1

System : 450-GC
Method : Biodiesel FAME 2023
User : User1

Acquired : 07/11/2025 01:48:31 p. m.
Processed : 21/11/2025 01:07:34 p. m.
Printed : 21/11/2025 01:07:46 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 : FINAL
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 : FINAL_channel1

System : 450-GC
Method : Biodiesel FAME 2023
User : User1

Acquired : 07/11/2025 01:48:31 p. m.
Processed : 21/11/2025 01:07:34 p. m.
Printed : 21/11/2025 01:07:46 p. m.

Manual integration action count : 10

Action #1 : 21/11/2025 01:07:34 p. m. : SPLIT peak # 12 at 8.50
Action #2 : 21/11/2025 01:07:34 p. m. : SPLIT peak # 12 at 8.48
Action #3 : 21/11/2025 01:07:34 p. m. : SPLIT peak # 29 at 8.65
Action #4 : 21/11/2025 01:07:34 p. m. : SPLIT peak # 16 at 9.33
Action #5 : 21/11/2025 01:07:34 p. m. : SPLIT peak # 21 at 10.84
Action #6 : 21/11/2025 01:07:34 p. m. : SPLIT peak # 20 at 10.71
Action #7 : 21/11/2025 01:07:34 p. m. : SPLIT peak # 23 at 11.47
Action #8 : 21/11/2025 01:07:34 p. m. : SPLIT peak # 22 at 11.37
Action #9 : 21/11/2025 01:07:34 p. m. : SPLIT peak # 32 at 9.35
Action #10 : 21/11/2025 01:07:34 p. m. : SPLIT peak # 4 at 6.69

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 : FINAL_channel1

System : 450-GC
Method : Biodiesel FAME 2023
User : User1

Acquired : 07/11/2025 01:48:31 p. m.
Processed : 21/11/2025 01:07:34 p. m.
Printed : 21/11/2025 01:07:46 p. m.

Peak results :

Index	Name	Time [Min]	Quantity [% Area]	Height [µV]	Area [µV.Min]	Area % [%]
1	UNKNOWN 2	0.98	89.32	297460442.3	2072602.0	89.319
2	UNKNOWN 6	5.92	0.01	1650.6	160.6	0.007
3	UNKNOWN	6.11	0.01	2518.8	235.3	0.010
4	UNKNOWN	6.63	0.01	4053.9	188.2	0.008
38	UNKNOWN	6.72	0.00	769.1	41.6	0.002
5	UNKNOWN 8	6.96	0.01	3198.6	133.7	0.006
6	UNKNOWN	7.20	0.53	194435.4	12222.5	0.527
7	UNKNOWN	7.45	3.66	967562.9	85012.3	3.664
8	UNKNOWN 10	7.82	2.09	742113.0	48472.5	2.089
9	UNKNOWN	7.93	1.99	674380.9	46157.9	1.989
10	UNKNOWN 11	8.16	0.31	175678.5	7298.4	0.315
11	UNKNOWN	8.29	0.01	4036.1	267.3	0.012
12	UNKNOWN 12	8.46	0.01	5644.7	327.6	0.014
30	UNKNOWN	8.50	0.02	25169.7	436.0	0.019
29	UNKNOWN	8.52	0.04	25114.6	1041.4	0.045
31	UNKNOWN	8.67	0.00	3176.9	113.4	0.005
13	UNKNOWN	8.76	0.00	467.4	19.8	0.001
14	UNKNOWN	8.90	0.00	1172.0	75.3	0.003
15	UNKNOWN	9.08	0.00	350.2	26.0	0.001
16	UNKNOWN	9.27	0.05	25916.0	1198.9	0.052
32	UNKNOWN 13	9.34	0.05	52821.7	1131.2	0.049
37	UNKNOWN	9.37	0.15	49953.3	3481.8	0.150
17	UNKNOWN	9.86	0.01	1437.5	188.5	0.008
18	UNKNOWN	10.04	0.02	3428.3	368.0	0.016
19	UNKNOWN	10.55	0.00	1037.5	109.7	0.005
20	UNKNOWN 14	10.70	0.01	10324.3	260.5	0.011
34	UNKNOWN	10.74	0.17	70864.4	3952.4	0.170
21	UNKNOWN	10.82	0.07	63608.0	1523.7	0.066
33	UNKNOWN	10.86	0.59	80771.6	13642.0	0.588
22	UNKNOWN	11.21	0.21	30263.5	4897.9	0.211
36	UNKNOWN	11.40	0.03	16370.1	648.8	0.028
23	UNKNOWN	11.45	0.04	25392.2	857.8	0.037
35	UNKNOWN	11.49	0.47	46869.9	10939.9	0.471
24	UNKNOWN	12.25	0.03	4010.0	745.9	0.032
25	UNKNOWN	12.50	0.02	2839.8	393.6	0.017
26	UNKNOWN	12.68	0.04	5935.4	916.7	0.040
27	UNKNOWN	13.58	0.01	772.0	133.4	0.006
28	UNKNOWN	14.00	0.01	1119.8	237.9	0.010
Total			100.00	300785670.8	2320460.3	100.000

CHROMATOGRAM METHOD REPORT :

Control method :

Scion/Bruker/Varian 400-GC Series (Exclu

Autosampler (8410)

Autosampler	ENABLED
First injector used	Position 2
Syringe volume	10 uL

Chromatogram : FINAL_channel1

System : 450-GC
Method : Biodiesel FAME 2023
User : User1

Acquired : 07/11/2025 01:48:31 p. m.
Processed : 21/11/2025 01:07:34 p. m.
Printed : 21/11/2025 01:07:46 p. m.

Autosampler	ENABLED
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 uL
Strokes	1
Drawup speed	5.0 uL/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

Chromatogram : FINAL_channel1

System : 450-GC
Method : Biodiesel FAME 2023
User : User1

Acquired : 07/11/2025 01:48:31 p. m.
Processed : 21/11/2025 01:07:34 p. m.
Printed : 21/11/2025 01:07:46 p. m.

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

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)

Chromatogram : FINAL_channel1

System : 450-GC
Method : Biodiesel FAME 2023
User : User1

Acquired : 07/11/2025 01:48:31 p. m.
Processed : 21/11/2025 01:07:34 p. m.
Printed : 21/11/2025 01:07:46 p. m.

Heat-only zone 3

Heater	OFF
Setpoint	50 °C

Columns

Front

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

Chromatogram : FINAL_channel1

System : 450-GC
Method : Biodiesel FAME 2023
User : User1

Acquired : 07/11/2025 01:48:31 p. m.
Processed : 21/11/2025 01:07:34 p. m.
Printed : 21/11/2025 01:07:46 p. m.

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

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

Ouput ports

Chromatogram : FINAL_channel1

System : 456-GC
Method : Biodiesel FAME 2023
User : User1

Acquired : 07/11/2025 01:48:31 p. m.
Processed : 21/11/2025 01:07:34 p. m.
Printed : 21/11/2025 01:07:46 p. m.

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

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 : FINAL
Description
Run Id. : -1
Run Time : 24.00
Vial : 1

Chromatogram : FINAL_channel1

System : 450-GC
Method : Biodiesel FAME 2023
User : User1

Acquired : 07/11/2025 01:48:31 p. m.
Processed : 21/11/2025 01:07:34 p. m.
Printed : 21/11/2025 01:07:46 p. m.

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 07/11/2025 01:48:31 p. m.

Scion/Bruker/Varian 400-GC Series (Exclu [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 : 10
Action #1 : 21/11/2025 01:07:34 p. m. : SPLIT peak # 12 at 8.50
Action #2 : 21/11/2025 01:07:34 p. m. : SPLIT peak # 12 at 8.48
Action #3 : 21/11/2025 01:07:34 p. m. : SPLIT peak # 29 at 8.65
Action #4 : 21/11/2025 01:07:34 p. m. : SPLIT peak # 16 at 9.33
Action #5 : 21/11/2025 01:07:34 p. m. : SPLIT peak # 21 at 10.84
Action #6 : 21/11/2025 01:07:34 p. m. : SPLIT peak # 20 at 10.71
Action #7 : 21/11/2025 01:07:34 p. m. : SPLIT peak # 23 at 11.47
Action #8 : 21/11/2025 01:07:34 p. m. : SPLIT peak # 22 at 11.37
Action #9 : 21/11/2025 01:07:34 p. m. : SPLIT peak # 32 at 9.35
Action #10 : 21/11/2025 01:07:34 p. m. : SPLIT peak # 4 at 6.69

Chromatogram : FINAL_channel1

System : 456-GC
Method : Biodiesel FAME 2023
User : User1

Acquired : 07/11/2025 01:48:31 p. m.
Processed : 21/11/2025 01:07:34 p. m.
Printed : 21/11/2025 01:07:46 p. m.

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 :

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

Format

Add a new sheet.

Destination :

File name : SEQNAME

File path : C:\Users\456-GC\Documents\Andres_2025\2025-11-07\MMORAN\

File ext. : .XLS

Content :

- Peak results (format :)

Post Run :

Print Method :

Chromatogram : FINAL_channel1

System : 450-GC
Method : Biodiesel FAME 2023
User : User1

Acquired : 07/11/2025 01:48:31 p. m.
Processed : 21/11/2025 01:07:34 p. m.
Printed : 21/11/2025 01:07:46 p. m.

File name : : default_standard
Copies : 0

Summary :