

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100825\
 Data File : VL043061.D
 Acq On : 08 Oct 2025 13:23
 Operator : SY/MD
 Sample : Q3306-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/09/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 09 01:17:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025
 QLast Update : Fri Oct 03 08:23:34 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.791	49	178803	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.962	114	481093	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.885	117	385982	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	288219	10.366	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	13833	0.459	ppbv	98
3) Chlorodifluoromethane	1.476	51	7602m	0.261	ppbv	
4) Chloromethane	1.535	50	4994	0.454	ppbv	98
9) Propene	1.489	41	12045	1.025	ppbv	84
11) Trichlorofluoromethane	1.881	101	7449	0.241	ppbv	99
13) Ethanol	1.722	45	47271	109.705	ppbv	92
15) Acetone	1.839	43	165569	6.613	ppbv	99
20) Methylene Chloride	2.066	84	259738	23.769	ppbv	98
26) Hexane	2.833	57	329986	13.659	ppbv #	34
34) 2-Butanone	2.561	43	11558	0.354	ppbv	99
35) Carbon Tetrachloride	3.765	117	2785m	0.070	ppbv	
36) Benzene	3.664	78	7242	0.158	ppbv	94
44) 2,2,4-Trimethylpentane	4.648	57	9153	0.124	ppbv #	79
53) Toluene	6.940	91	14220m	0.306	ppbv	
59) m/p-Xylene	9.539	91	7125m	0.141	ppbv	
74) 1,2,4-Trimethylbenzene	11.539	105	6201m	0.106	ppbv	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

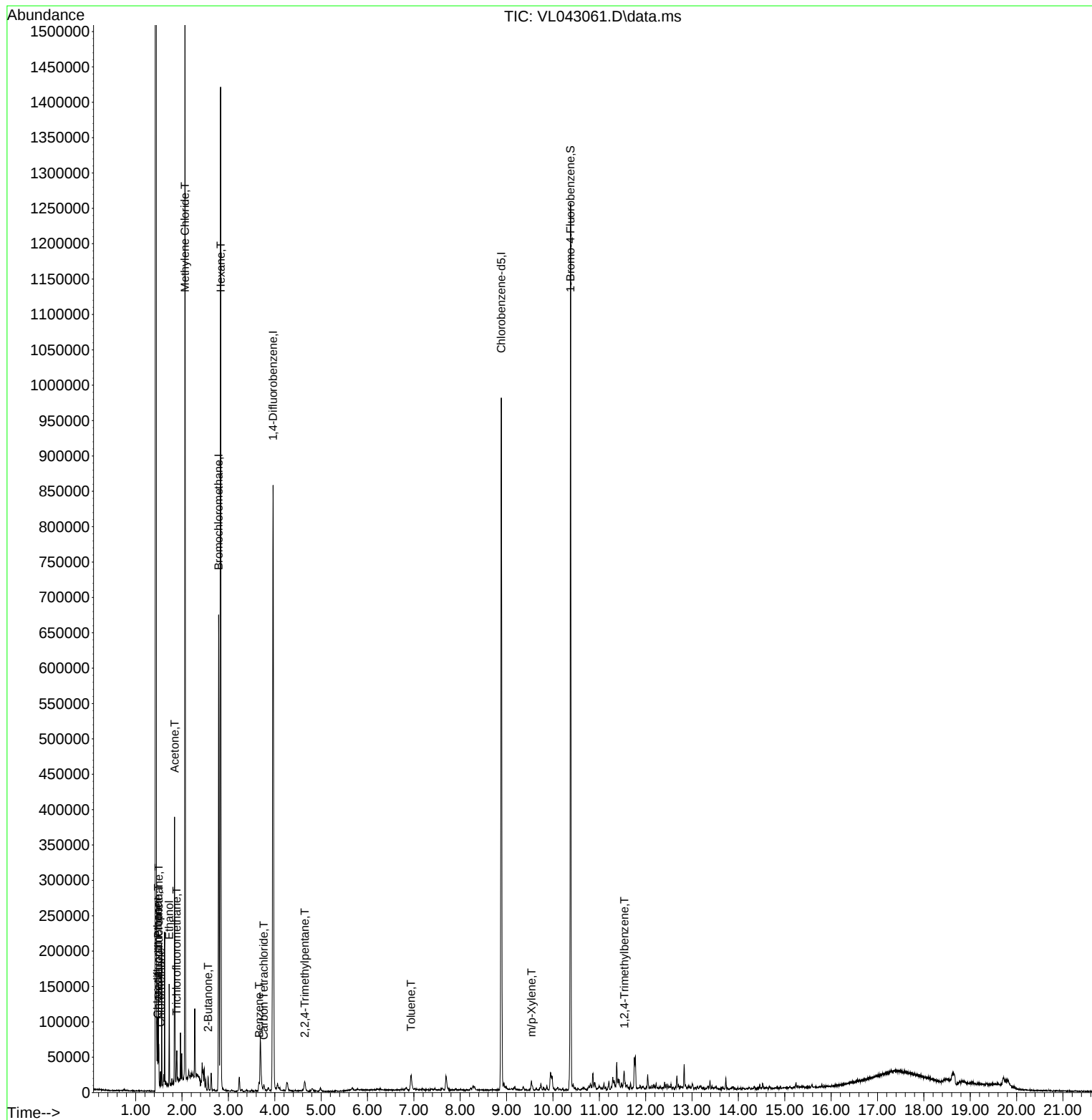
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100825\
Data File : VL043061.D
Acq On : 08 Oct 2025 13:23
Operator : SY/MD
Sample : Q3306-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

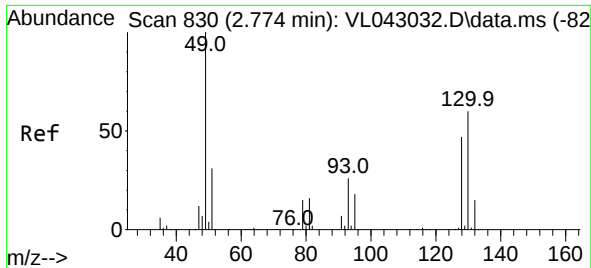
Instrument :
MSVOA_L
ClientSampleId :
IA1

Quant Time: Oct 09 01:17:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Oct 03 08:23:34 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

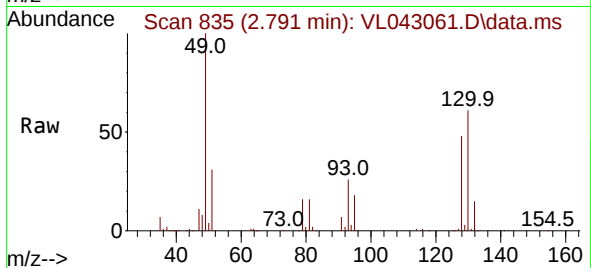
Reviewed By : Semsettin Yesilyurt 10/09/2025
Supervised By : Mahesh Dadoda 10/10/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 81
Delta R.T. 0.017 min
Lab File: VL043061.D
Acq: 08 Oct 2025 13:23

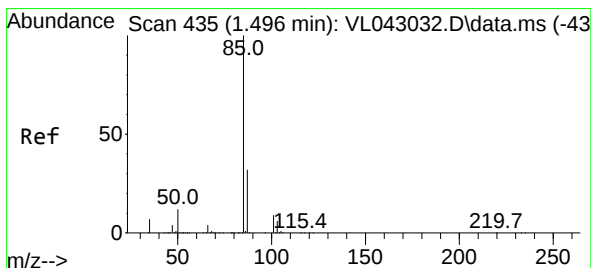
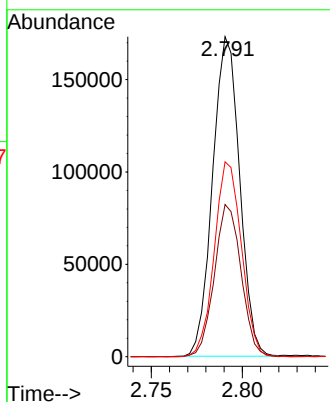
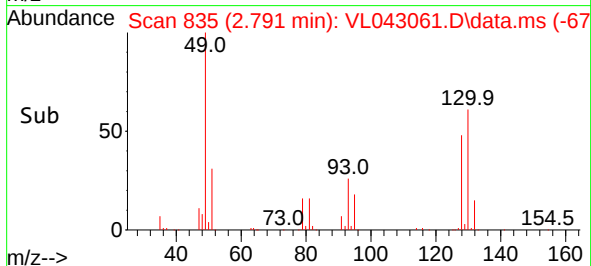
Instrument :
MSVOA_L
ClientSampleId :
IA1



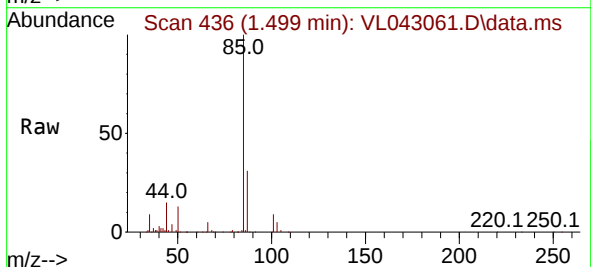
Tgt Ion: 49 Resp: 17880
Ion Ratio Lower Upper
49 100
128 46.9 24.1 72.2
130 61.1 31.4 94.3

Manual Integrations
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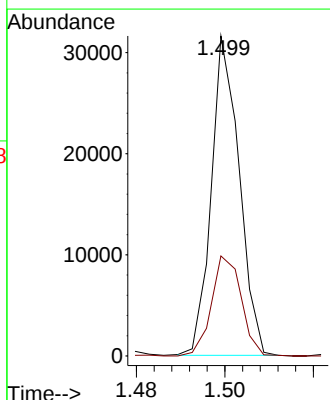
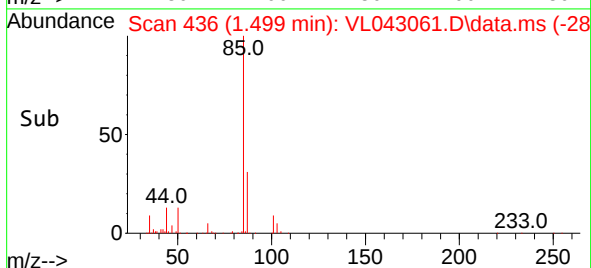
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

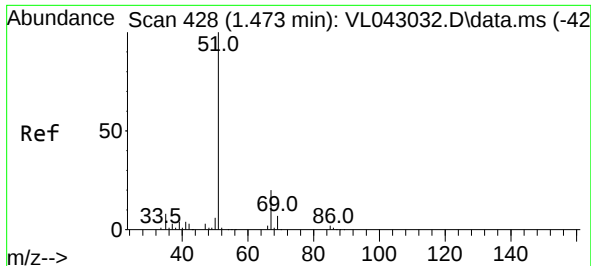


#2
Dichlorodifluoromethane
Concen: 0.459 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.004 min
Lab File: VL043061.D
Acq: 08 Oct 2025 13:23



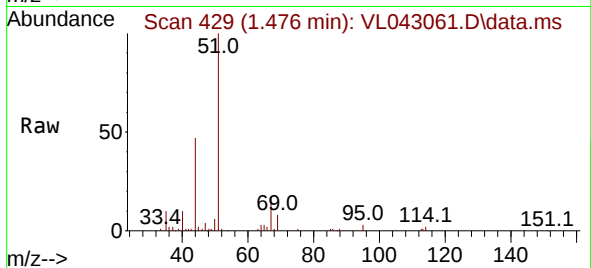
Tgt Ion: 85 Resp: 13833
Ion Ratio Lower Upper
85 100
87 31.3 25.8 38.6





#3
Chlorodifluoromethane
Concen: 0.261 ppbv m
RT: 1.476 min Scan# 41
Delta R.T. 0.004 min
Lab File: VL043061.D
Acq: 08 Oct 2025 13:23

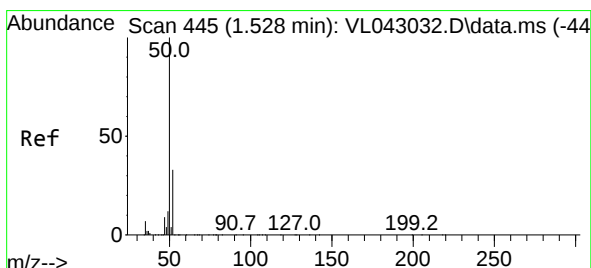
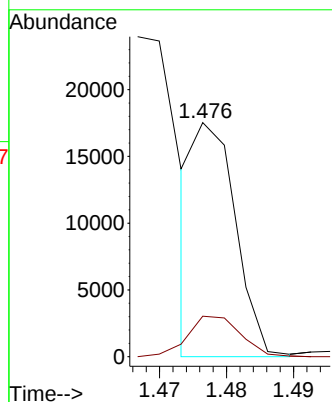
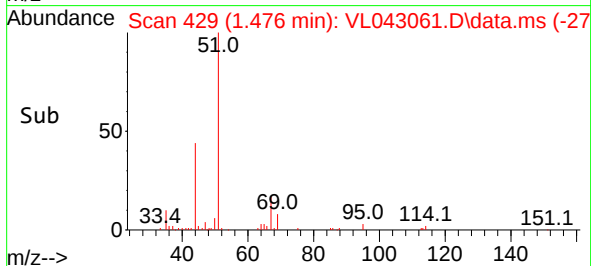
Instrument :
MSVOA_L
ClientSampleId :
IA1



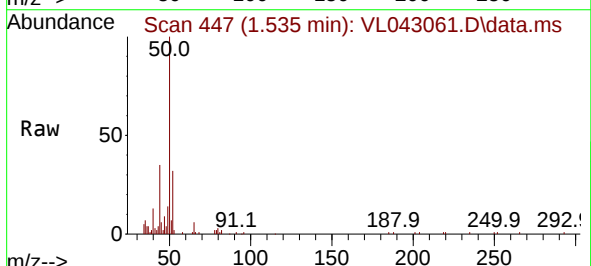
Tgt Ion: 51 Resp: 760
Ion Ratio Lower Upper
51 100
67 22.0 15.1 22.7

Manual Integrations
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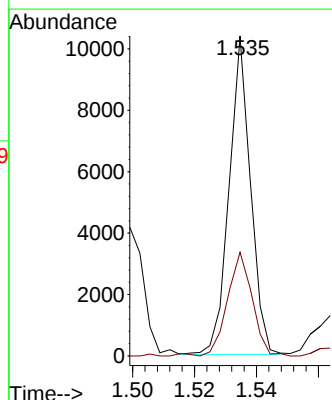
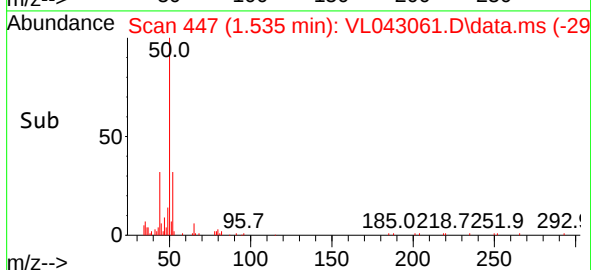
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

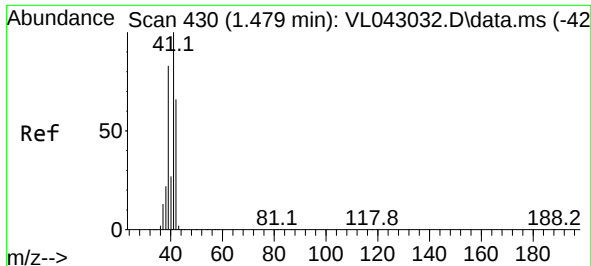


#4
Chloromethane
Concen: 0.454 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.007 min
Lab File: VL043061.D
Acq: 08 Oct 2025 13:23



Tgt Ion: 50 Resp: 4994
Ion Ratio Lower Upper
50 100
52 33.6 26.2 39.2





#9

Propene

Concen: 1.025 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.010 min

Lab File: VL043061.D

Acq: 08 Oct 2025 13:23

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 41 Resp: 1204

Ion Ratio Lower Upper

41 100

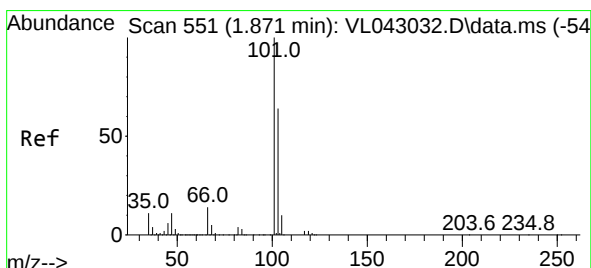
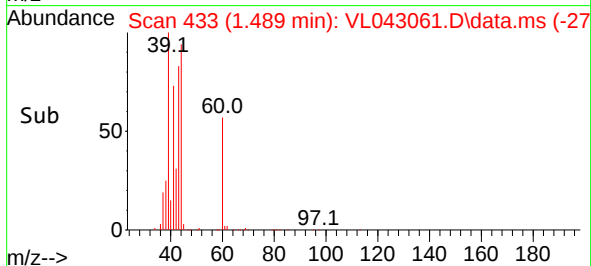
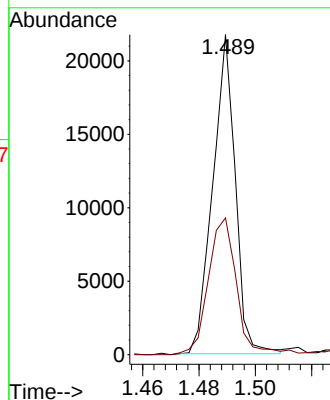
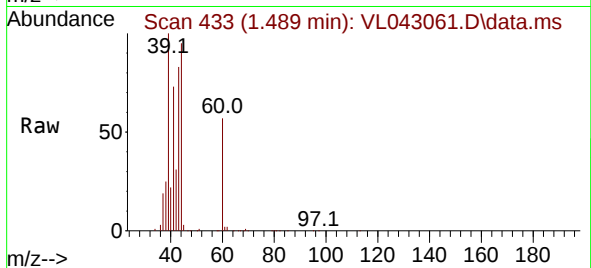
42 54.1 53.3 79.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/09/2025

Supervised By :Mahesh Dadoda 10/10/2025



#11

Trichlorofluoromethane

Concen: 0.241 ppbv

RT: 1.881 min Scan# 554

Delta R.T. 0.010 min

Lab File: VL043061.D

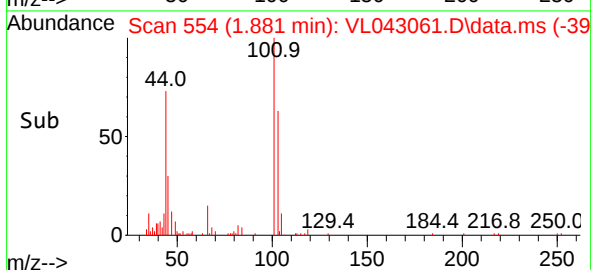
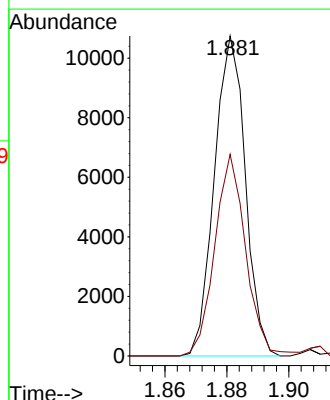
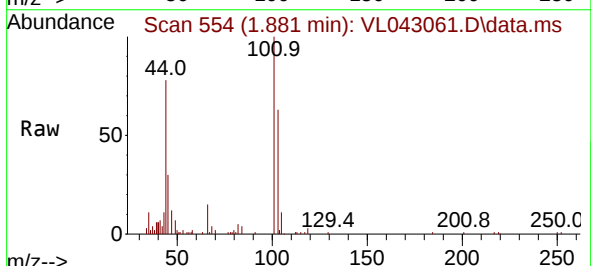
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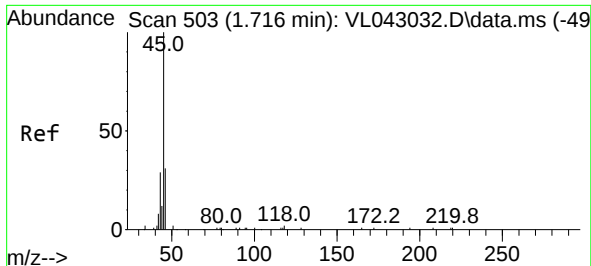
Tgt Ion:101 Resp: 7449

Ion Ratio Lower Upper

101 100

103 63.0 51.1 76.7





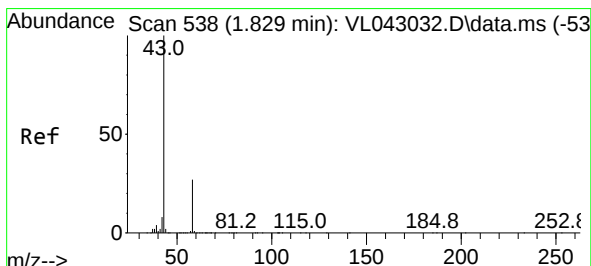
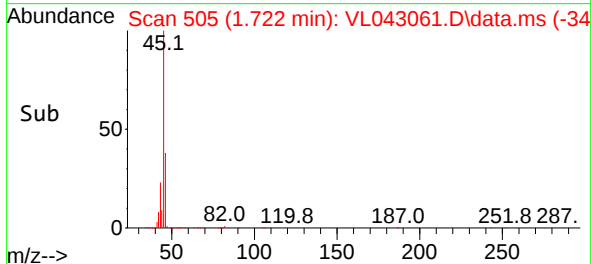
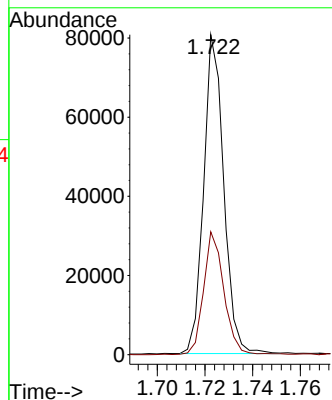
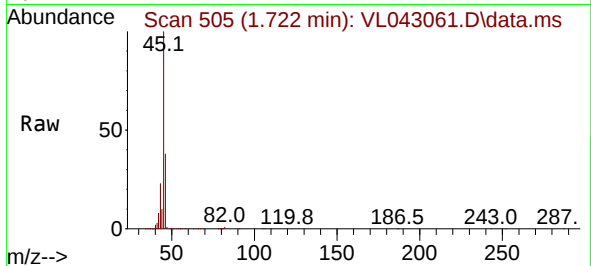
#13
Ethanol
Concen: 109.705 ppbv
RT: 1.722 min Scan# 503
Delta R.T. 0.006 min
Lab File: VL043061.D
Acq: 08 Oct 2025 13:23

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 45 Resp: 4727
Ion Ratio Lower Upper
45 100
46 39.6 17.8 71.4

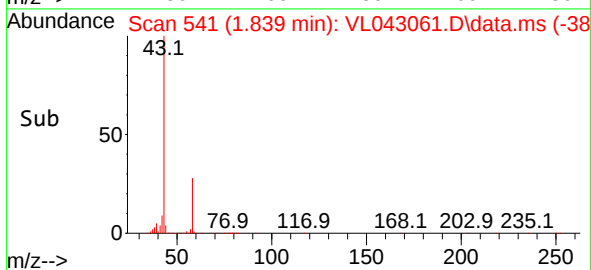
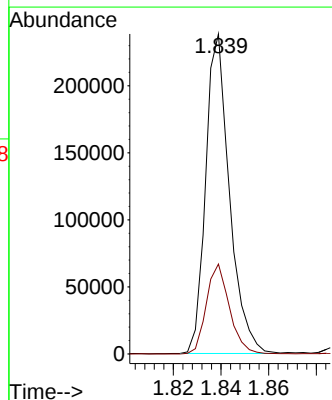
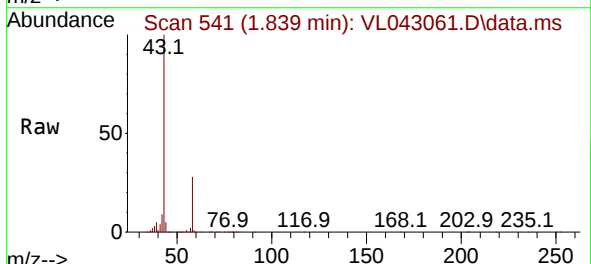
Manual Integrations
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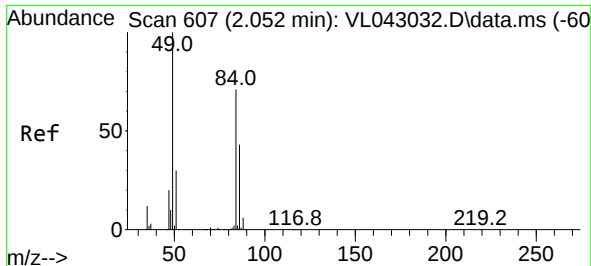
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#15
Acetone
Concen: 6.613 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.010 min
Lab File: VL043061.D
Acq: 08 Oct 2025 13:23

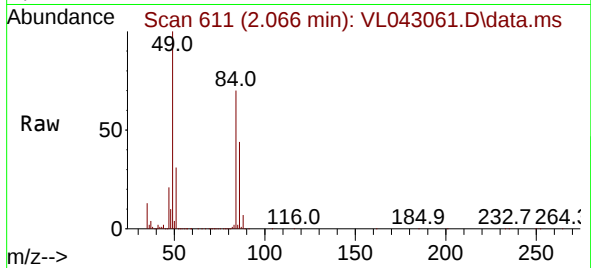
Tgt Ion: 43 Resp: 165569
Ion Ratio Lower Upper
43 100
58 27.4 22.2 33.4





#20
Methylene Chloride
Concen: 23.769 ppbv
RT: 2.066 min Scan# 611
Delta R.T. 0.013 min
Lab File: VL043061.D
Acq: 08 Oct 2025 13:23

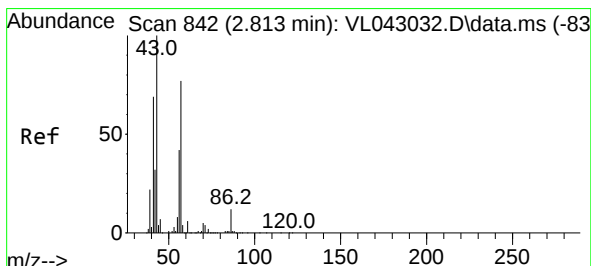
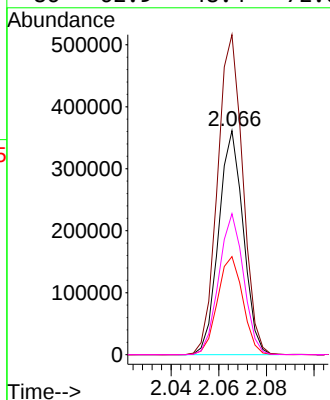
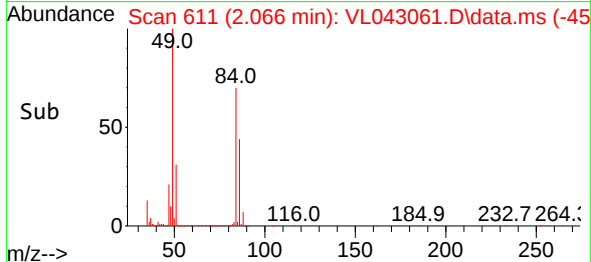
Instrument :
MSVOA_L
ClientSampleId :
IA1



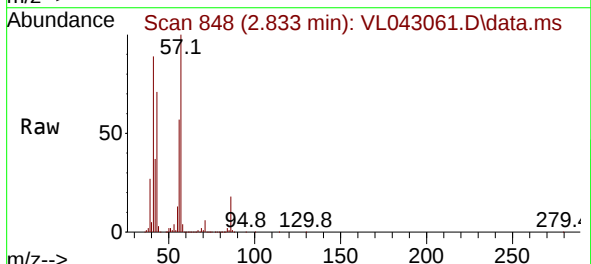
Tgt Ion: 84 Resp: 259738
Ion Ratio Lower Upper
84 100
49 142.8 112.5 168.7
51 43.7 34.2 51.2
86 62.9 48.4 72.6

Manual Integrations
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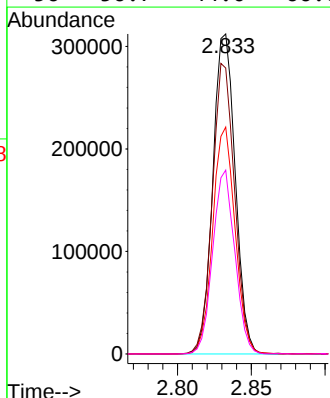
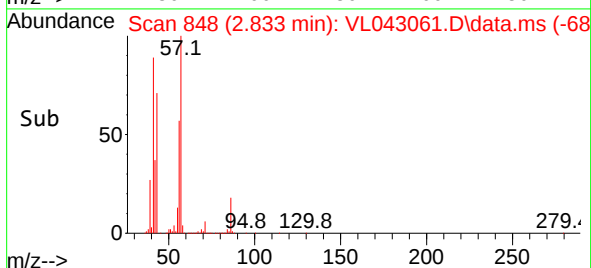
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

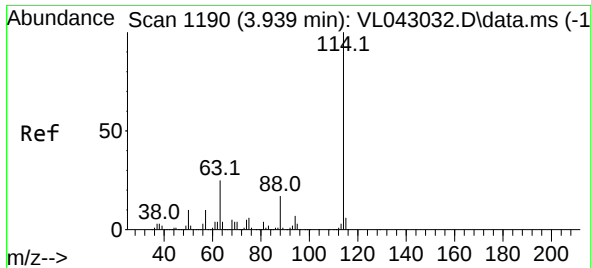


#26
Hexane
Concen: 13.659 ppbv
RT: 2.833 min Scan# 848
Delta R.T. 0.020 min
Lab File: VL043061.D
Acq: 08 Oct 2025 13:23



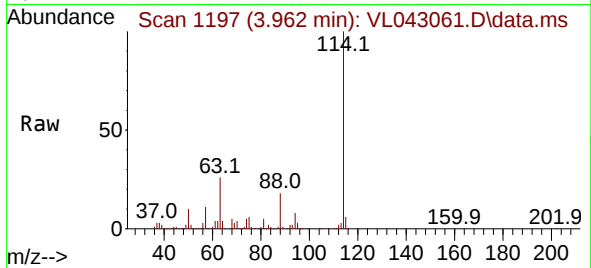
Tgt Ion: 57 Resp: 329986
Ion Ratio Lower Upper
57 100
41 90.8 76.1 114.1
43 71.0 201.4 302.0#
56 56.7 44.0 66.0





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1190
Delta R.T. 0.023 min
Lab File: VL043061.D
Acq: 08 Oct 2025 13:23

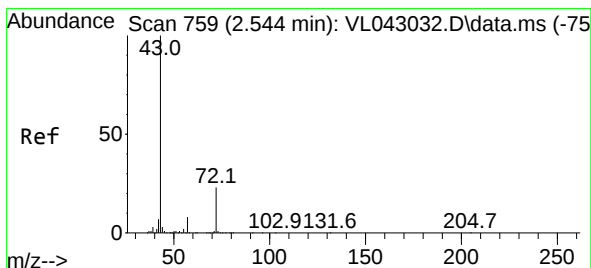
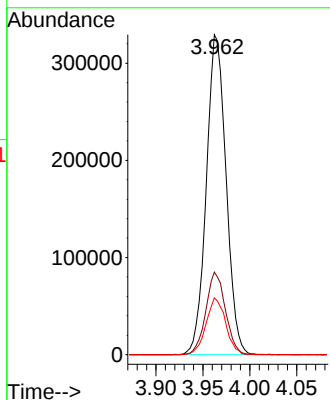
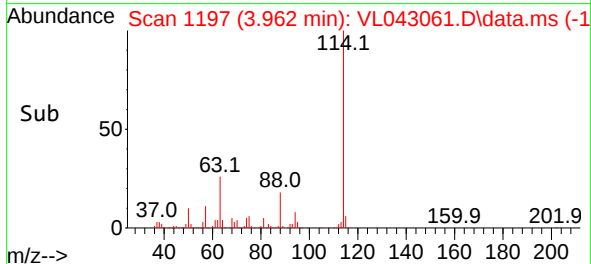
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 114 Resp: 48109
Ion Ratio Lower Upper
114 100
63 25.7 19.4 29.2
88 17.6 13.9 20.9

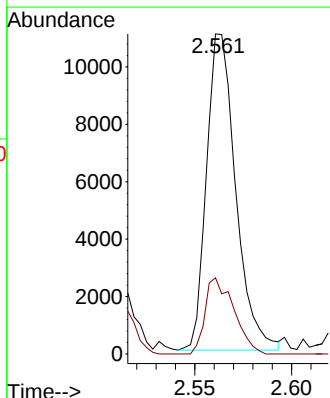
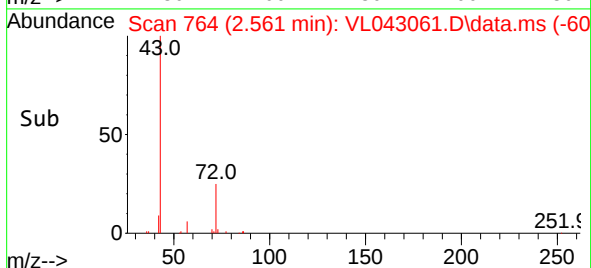
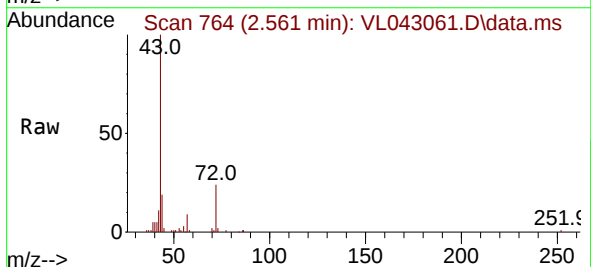
Manual Integrations
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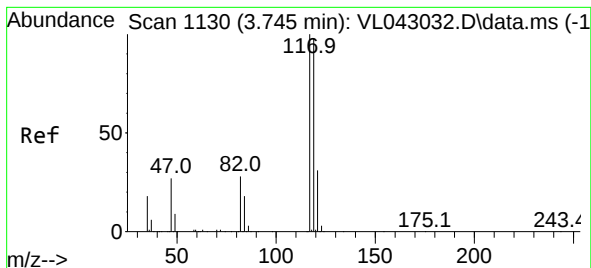
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#34
2-Butanone
Concen: 0.354 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.016 min
Lab File: VL043061.D
Acq: 08 Oct 2025 13:23

Tgt Ion: 43 Resp: 11558
Ion Ratio Lower Upper
43 100
72 23.7 18.4 27.6





#35

Carbon Tetrachloride

Concen: 0.070 ppbv m

RT: 3.765 min Scan# 1130

Delta R.T. 0.020 min

Lab File: VL043061.D

Acq: 08 Oct 2025 13:23

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion:117 Resp: 278

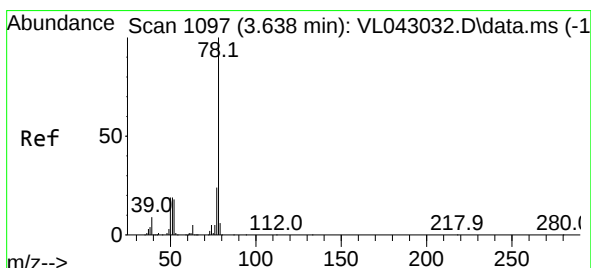
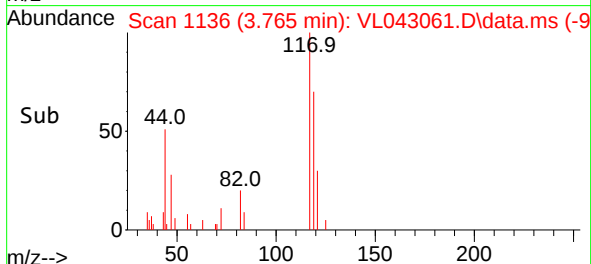
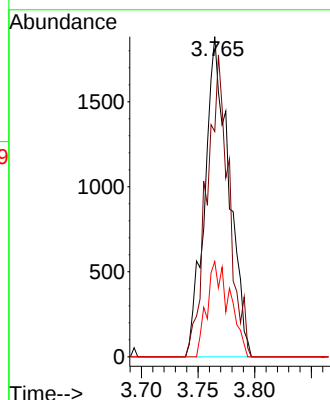
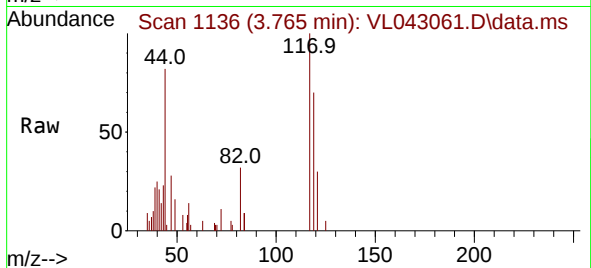
Ion	Ratio	Lower	Upper
117	100		
119	70.4	78.2	117.4
121	29.8	24.8	37.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/09/2025

Supervised By :Mahesh Dadoda 10/10/2025



#36

Benzene

Concen: 0.158 ppbv

RT: 3.664 min Scan# 1105

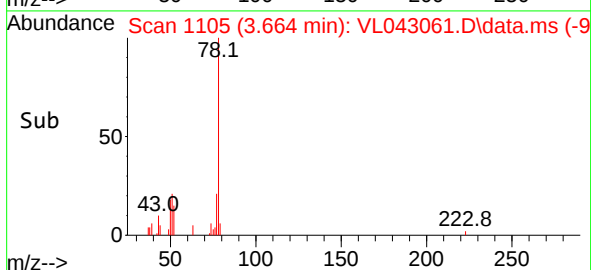
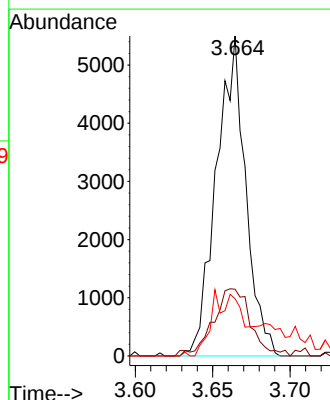
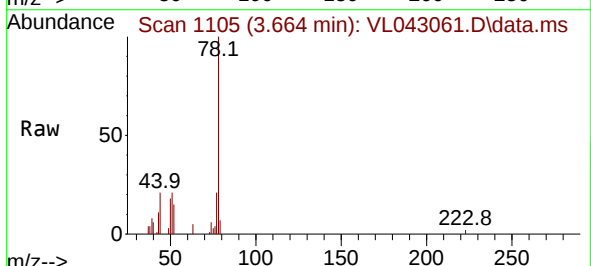
Delta R.T. 0.026 min

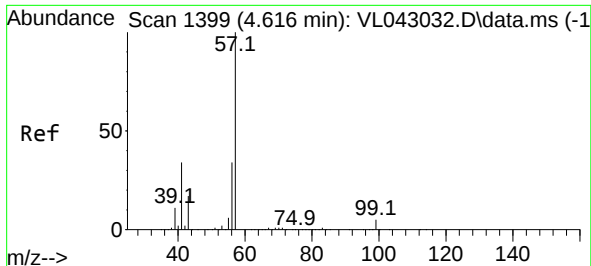
Lab File: VL043061.D

Acq: 08 Oct 2025 13:23

Tgt Ion: 78 Resp: 7242

Ion	Ratio	Lower	Upper
78	100		
77	19.6	19.2	28.8
50	17.9	14.9	22.3





#44

2,2,4-Trimethylpentane

Concen: 0.124 ppbv

RT: 4.648 min Scan# 1409

Delta R.T. 0.033 min

Lab File: VL043061.D

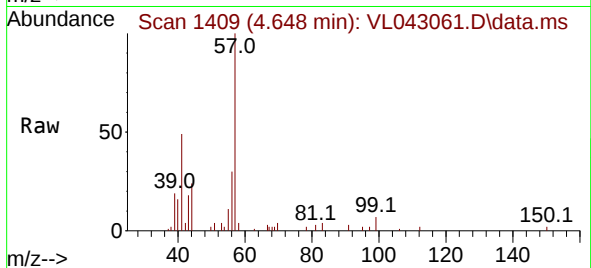
Acq: 08 Oct 2025 13:23

Instrument :

MSVOA_L

ClientSampleId :

IA1



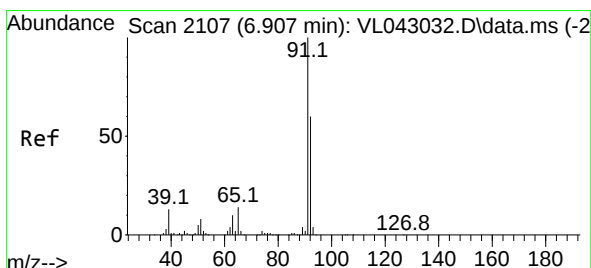
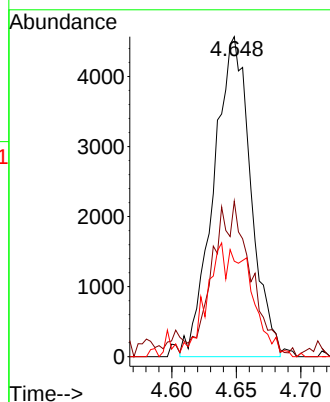
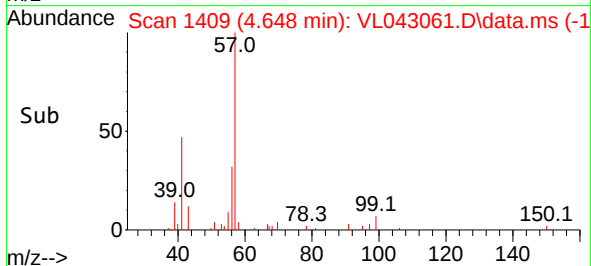
Tgt Ion:	57	Resp:	915
Ion	Ratio	Lower	Upper
57	100		
41	48.4	27.0	40.4
56	41.4	26.0	39.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/09/2025

Supervised By :Mahesh Dadoda 10/10/2025



#53

Toluene

Concen: 0.306 ppbv m

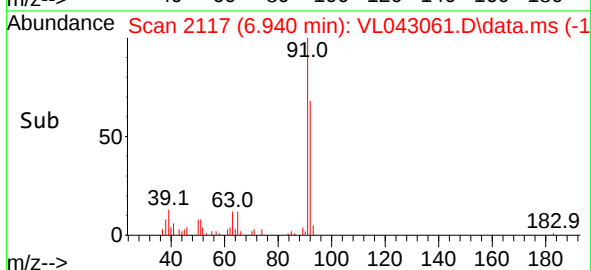
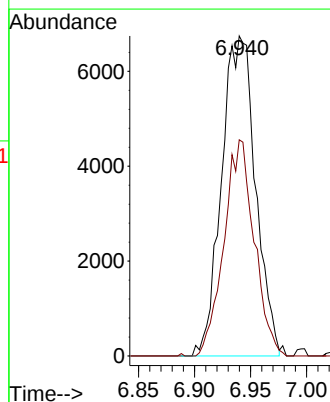
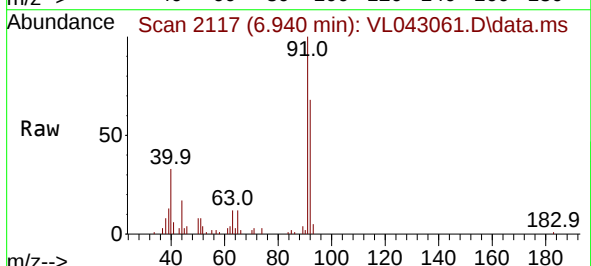
RT: 6.940 min Scan# 2117

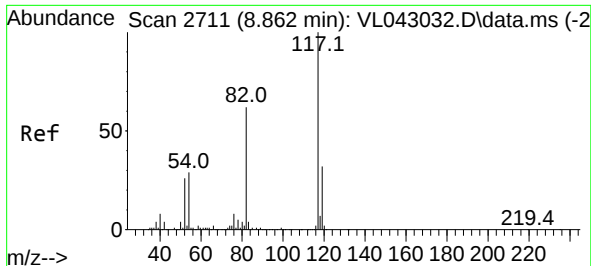
Delta R.T. 0.033 min

Lab File: VL043061.D

Acq: 08 Oct 2025 13:23

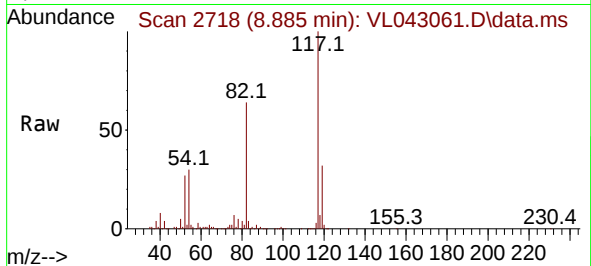
Tgt Ion:	91	Resp:	14220
Ion	Ratio	Lower	Upper
91	100		
92	60.2	47.8	71.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 211
Delta R.T. 0.023 min
Lab File: VL043061.D
Acq: 08 Oct 2025 13:23

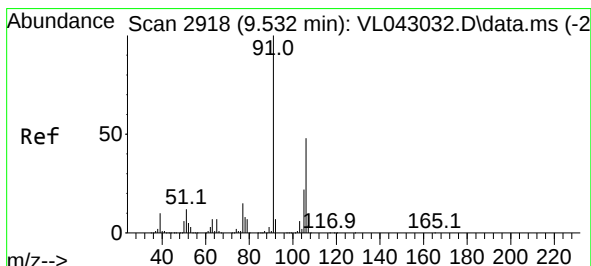
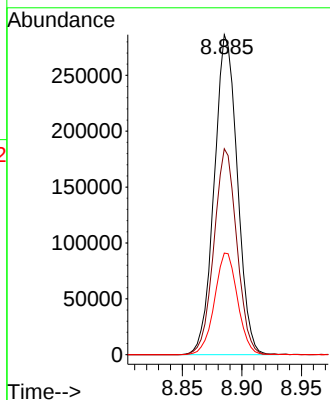
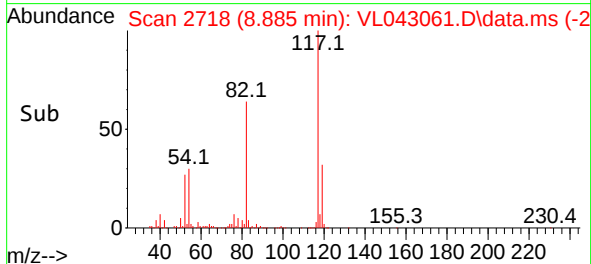
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 117 Resp: 38598
Ion Ratio Lower Upper
117 100
82 63.7 53.0 79.6
119 31.7 25.4 38.2

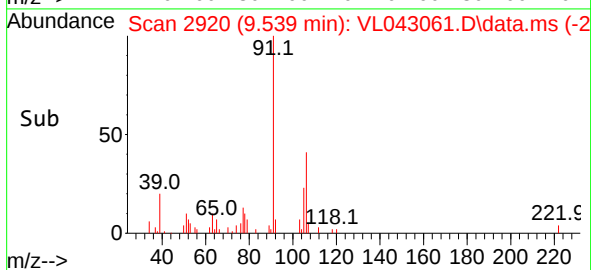
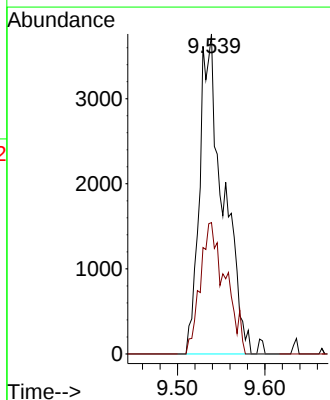
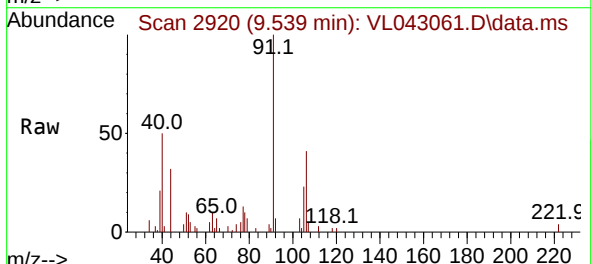
Manual Integrations
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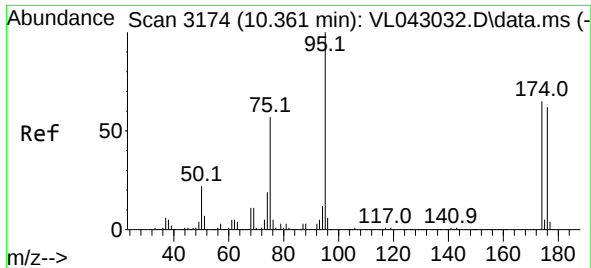
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#59
m/p-Xylene
Concen: 0.141 ppbv m
RT: 9.539 min Scan# 2920
Delta R.T. 0.007 min
Lab File: VL043061.D
Acq: 08 Oct 2025 13:23

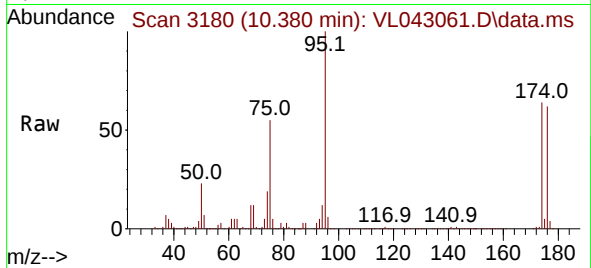
Tgt Ion: 91 Resp: 7125
Ion Ratio Lower Upper
91 100
106 0.0 37.5 56.3#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.366 ppbv
 RT: 10.380 min Scan# 3174
 Delta R.T. 0.020 min
 Lab File: VL043061.D
 Acq: 08 Oct 2025 13:23

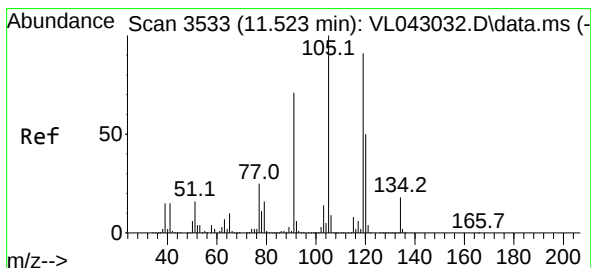
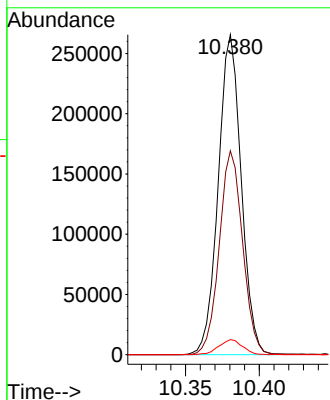
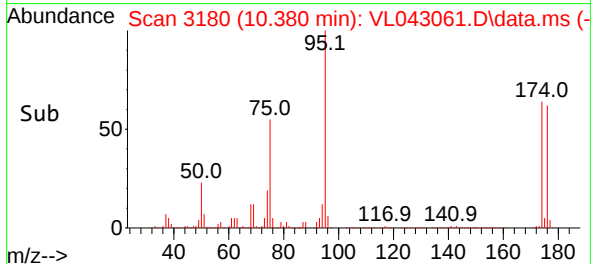
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



Tgt Ion: 95 Resp: 288219
 Ion Ratio Lower Upper
 95 100
 174 65.1 52.3 78.5
 175 4.9 3.8 5.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/09/2025
 Supervised By :Mahesh Dadoda 10/10/2025



#74
 1,2,4-Trimethylbenzene
 Concen: 0.106 ppbv m
 RT: 11.539 min Scan# 3538
 Delta R.T. 0.016 min
 Lab File: VL043061.D
 Acq: 08 Oct 2025 13:23

Tgt Ion:105 Resp: 6201
 Ion Ratio Lower Upper
 105 100
 120 40.1 39.7 59.5
 91 17.6 56.5 84.7#
 77 16.9 19.9 29.9#

