

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082125\
 Data File : VL042869.D
 Acq On : 21 Aug 2025 17:17
 Operator : SY/MD
 Sample : Q2887-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 08/25/2025
 Supervised By :Semsettin Yesilyurt 08/25/2025

Quant Time: Aug 22 01:24:53 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 22 01:24:53 2025

QLast Update : Thu Aug 14 02:12:54 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	131542	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	382704	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	327152	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	251136	10.236	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.400%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.499	85	8515	0.442	ppbv	95
4) Chloromethane	1.534	50	3400	0.437	ppbv #	87
9) Propene	1.489	41	5971m	0.649	ppbv	
10) Heptane	4.994	43	4023m	0.163	ppbv	
11) Trichlorofluoromethane	1.881	101	4372	0.230	ppbv	94
13) Ethanol	1.725	45	1091810	1297.517	ppbv	94
15) Acetone	1.839	43	216323	12.432	ppbv	98
19) Isopropyl Alcohol	1.891	45	298594	28.730	ppbv #	66
20) Methylene Chloride	2.065	84	212757	29.188	ppbv	91
26) Hexane	2.832	57	423166	21.769	ppbv #	45
34) 2-Butanone	2.570	43	9831	0.380	ppbv	98
35) Carbon Tetrachloride	3.777	117	1861m	0.071	ppbv	
36) Benzene	3.667	78	6765	0.185	ppbv #	93
44) 2,2,4-Trimethylpentane	4.648	57	12347m	0.198	ppbv	
52) Tetrachloroethene	8.231	164	692m	0.052	ppbv	
53) Toluene	6.946	91	19545	0.449	ppbv	99
59) m/p-Xylene	9.542	91	9866m	0.218	ppbv	
74) 1,2,4-Trimethylbenzene	11.542	105	10340	0.201	ppbv #	67
79) Naphthalene	13.520	128	5036	0.108	ppbv #	93

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

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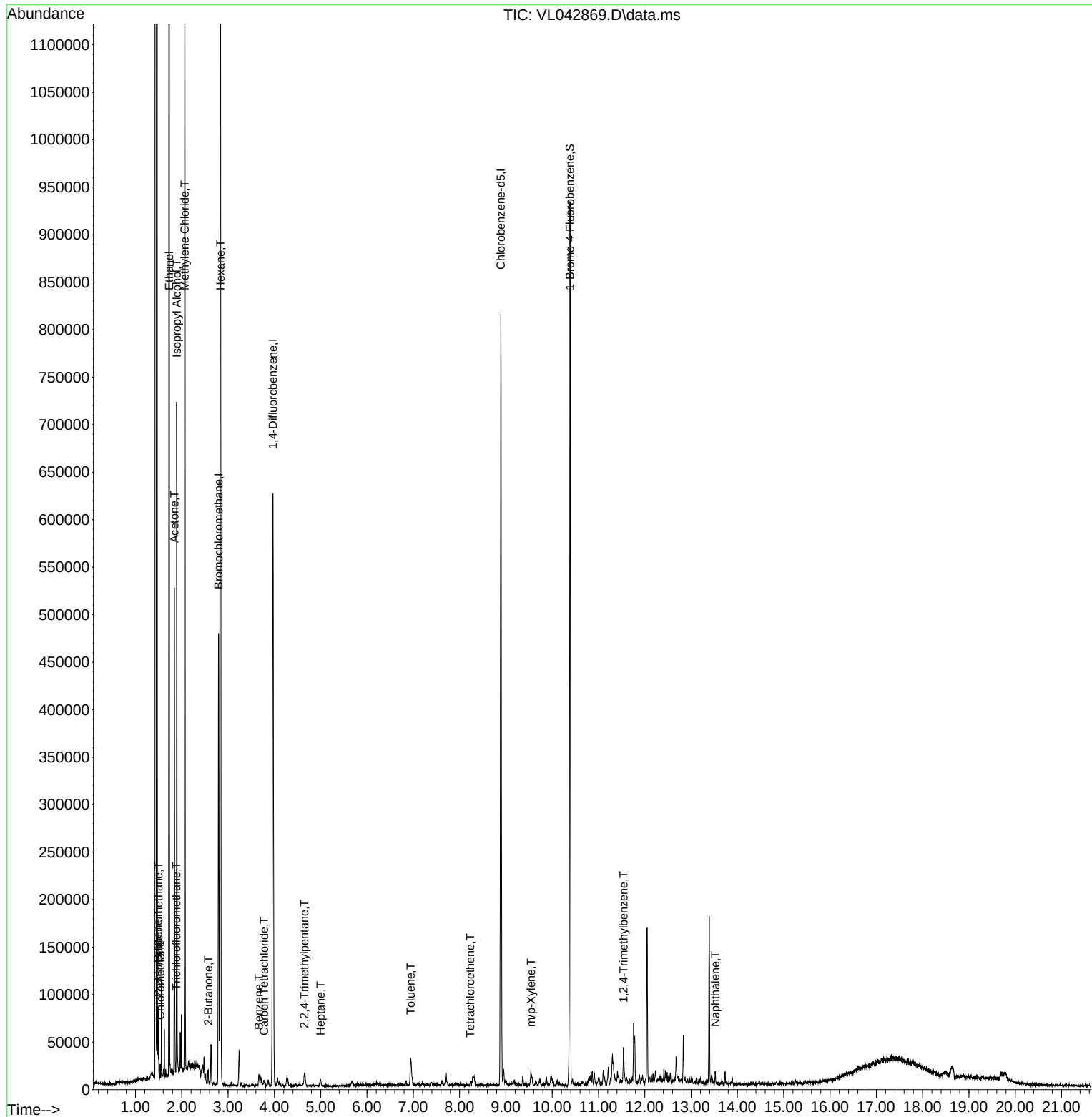
Quant Time: Aug 22 01:24:53 2025

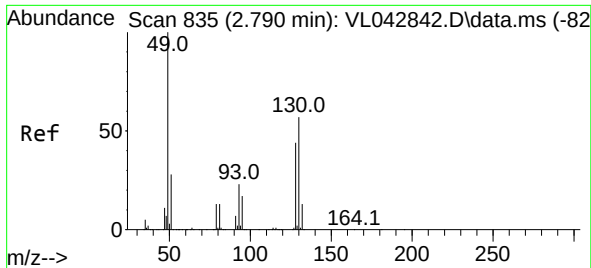
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug

QLast Update : Thu Aug 14 02:12:54 2025

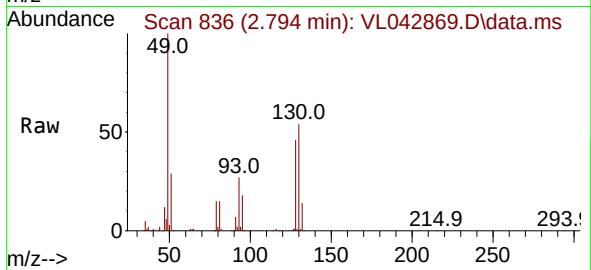
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 835
Delta R.T. 0.004 min
Lab File: VL042869.D
Acq: 21 Aug 2025 17:17

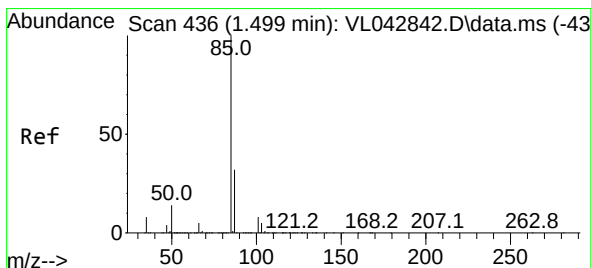
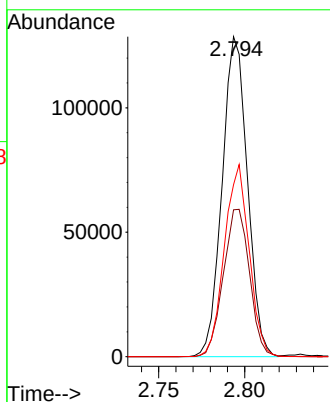
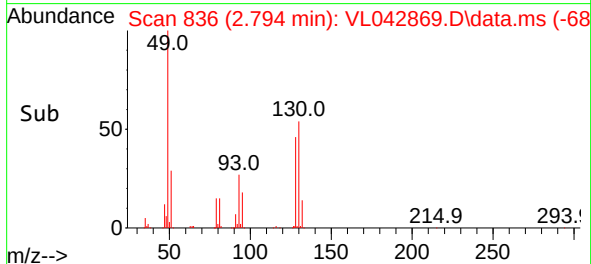
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 49 Resp: 13154
Ion Ratio Lower Upper
49 100
128 47.7 23.7 71.1
130 58.8 30.6 91.6

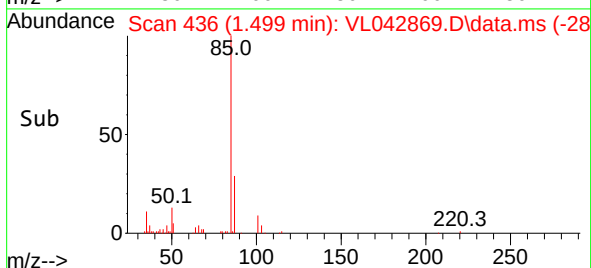
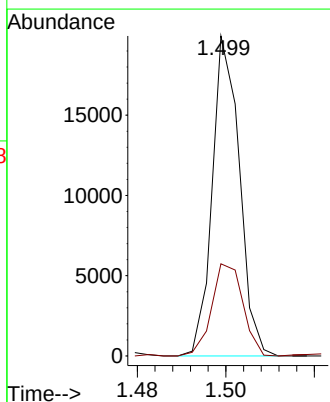
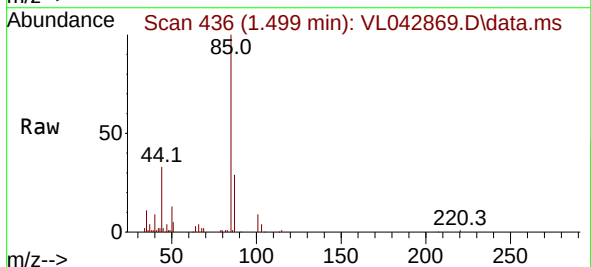
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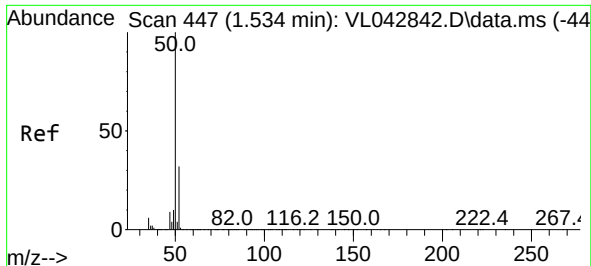
Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025



#2
Dichlorodifluoromethane
Concen: 0.442 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042869.D
Acq: 21 Aug 2025 17:17

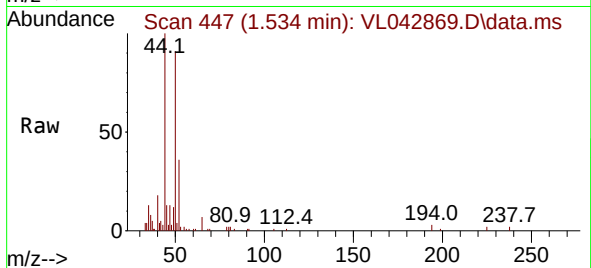
Tgt Ion: 85 Resp: 8515
Ion Ratio Lower Upper
85 100
87 28.8 25.3 37.9





#4
Chloromethane
Concen: 0.437 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL042869.D
Acq: 21 Aug 2025 17:17

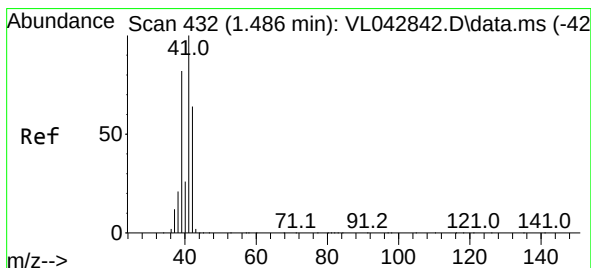
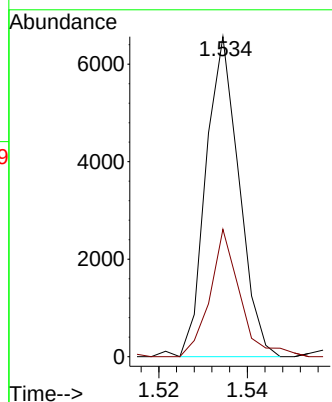
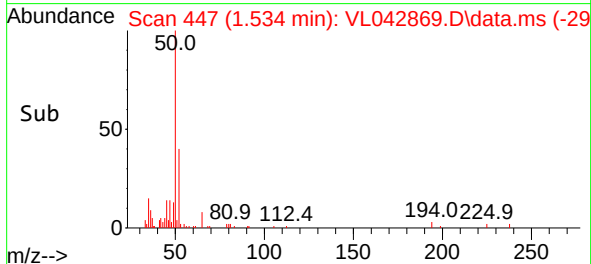
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 50 Resp: 3400
Ion Ratio Lower Upper
50 100
52 39.8 25.9 38.9

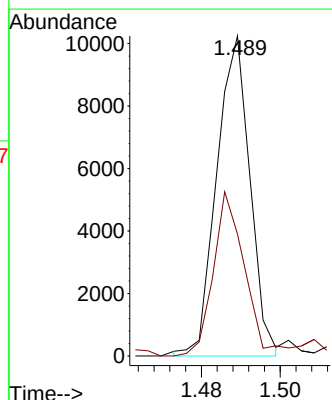
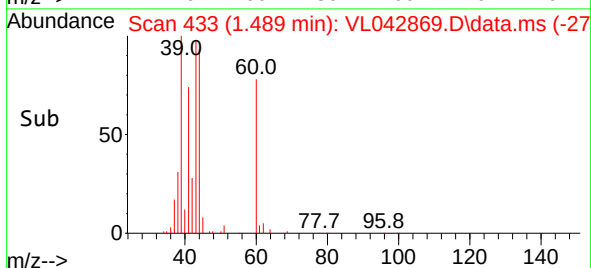
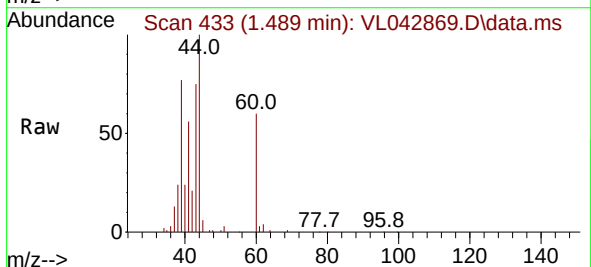
Manual Integrations
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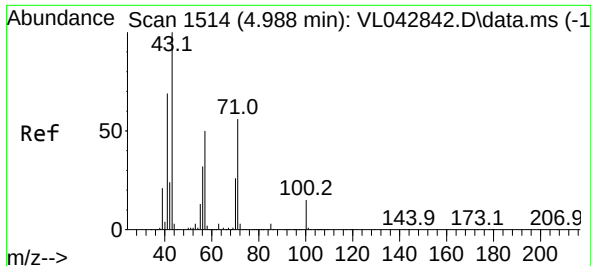
Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025



#9
Propene
Concen: 0.649 ppbv m
RT: 1.489 min Scan# 433
Delta R.T. 0.003 min
Lab File: VL042869.D
Acq: 21 Aug 2025 17:17

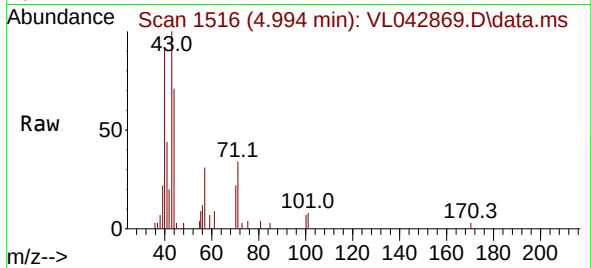
Tgt Ion: 41 Resp: 5971
Ion Ratio Lower Upper
41 100
42 267.7 53.0 79.4





#10
Heptane
Concen: 0.163 ppbv m
RT: 4.994 min Scan# 1516
Delta R.T. 0.006 min
Lab File: VL042869.D
Acq: 21 Aug 2025 17:17

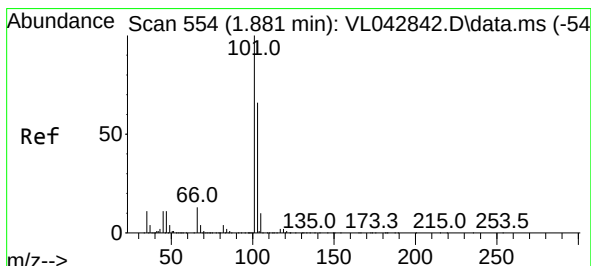
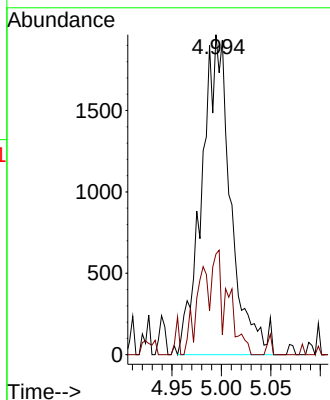
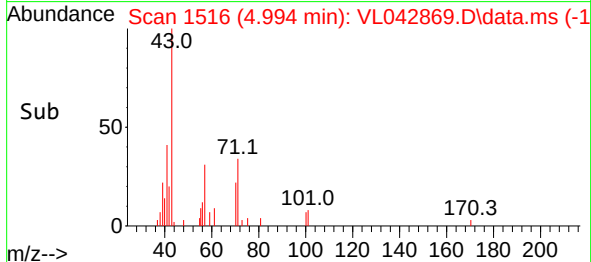
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 402
Ion Ratio Lower Upper
43 100
57 32.1 41.4 62.0

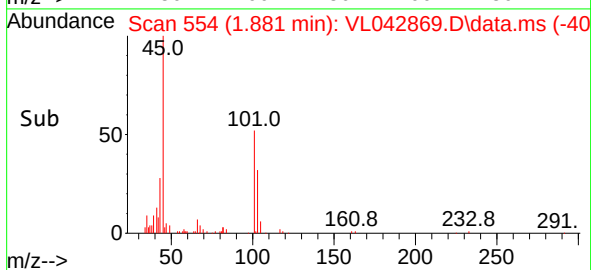
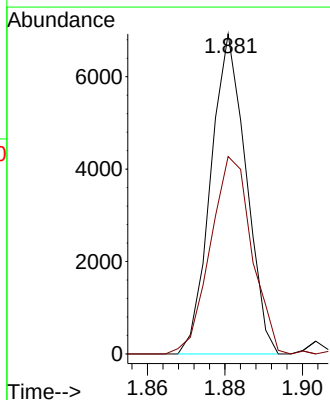
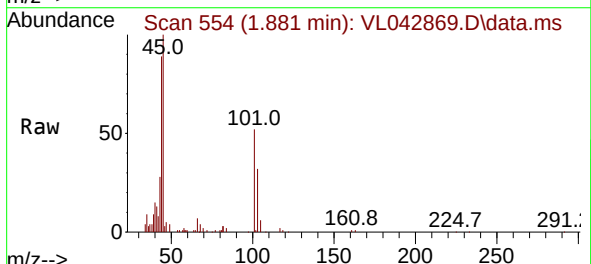
Manual Integrations
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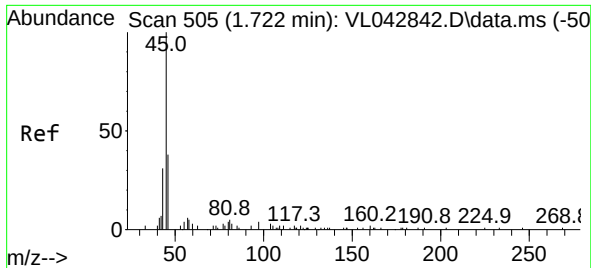
Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025



#11
Trichlorofluoromethane
Concen: 0.230 ppbv
RT: 1.881 min Scan# 554
Delta R.T. 0.000 min
Lab File: VL042869.D
Acq: 21 Aug 2025 17:17

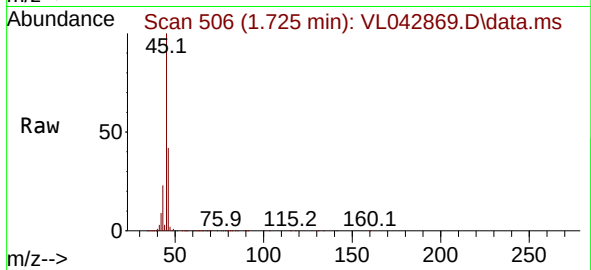
Tgt Ion:101 Resp: 4372
Ion Ratio Lower Upper
101 100
103 60.6 52.5 78.7





#13
Ethanol
Concen: 1297.517 ppbv
RT: 1.725 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042869.D
Acq: 21 Aug 2025 17:17

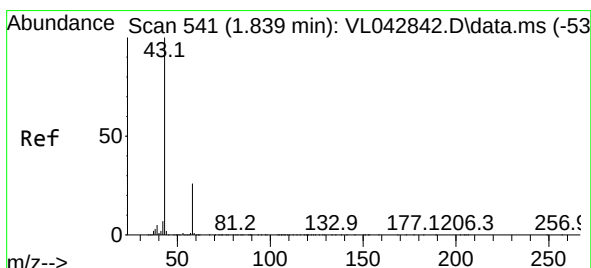
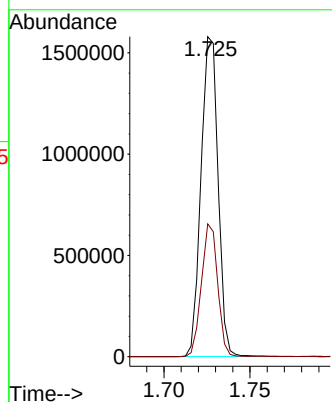
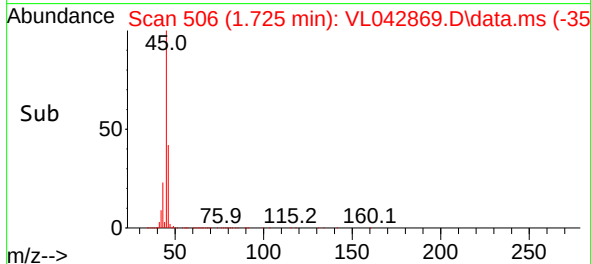
Instrument :
MSVOA_L
ClientSampleId :
IA1



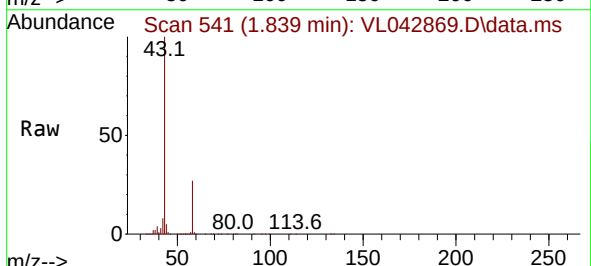
Tgt Ion: 45 Resp: 1091810
Ion Ratio Lower Upper
45 100
46 39.7 17.5 69.9

Manual Integrations
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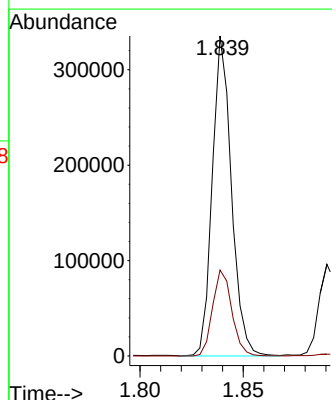
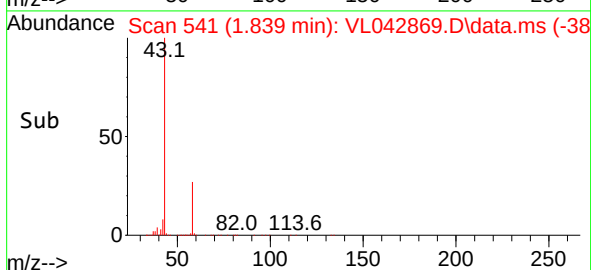
Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025

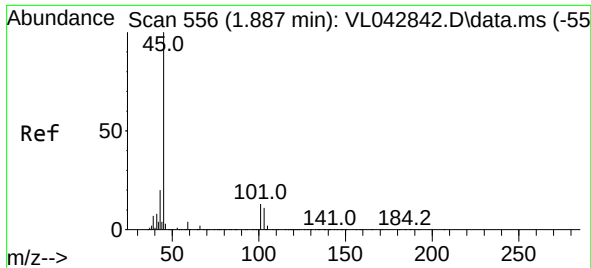


#15
Acetone
Concen: 12.432 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.000 min
Lab File: VL042869.D
Acq: 21 Aug 2025 17:17



Tgt Ion: 43 Resp: 216323
Ion Ratio Lower Upper
43 100
58 26.9 22.4 33.6





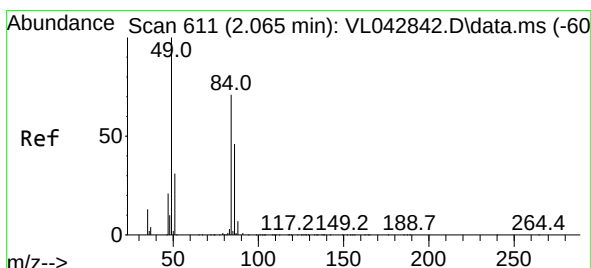
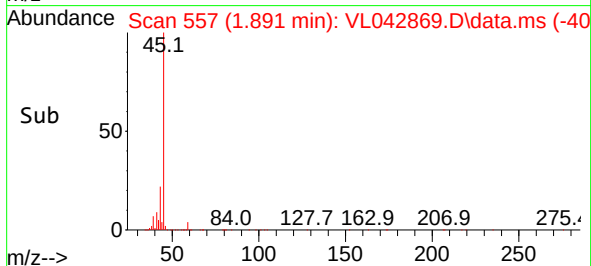
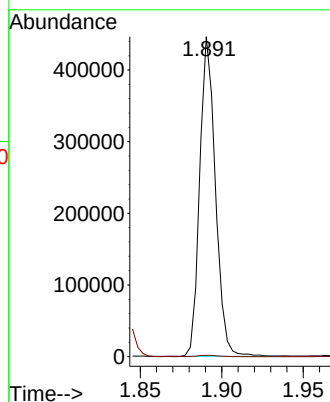
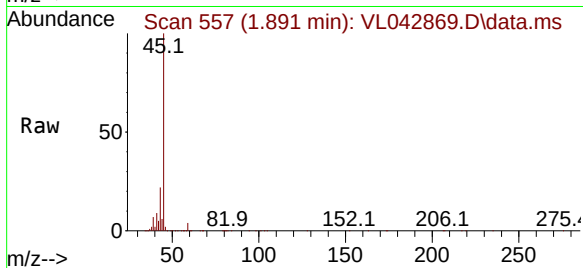
#19
Isopropyl Alcohol
Concen: 28.730 ppbv
RT: 1.891 min Scan# 557
Delta R.T. 0.003 min
Lab File: VL042869.D
Acq: 21 Aug 2025 17:17

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 45 Resp: 298594
Ion Ratio Lower Upper
45 100
58 19.5 32.7 49.1

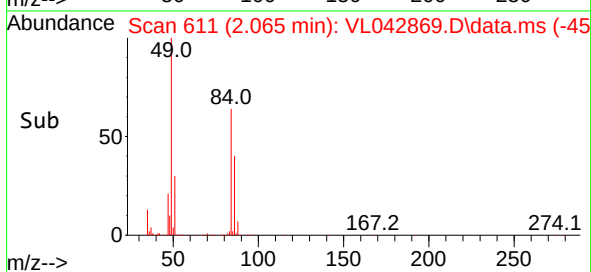
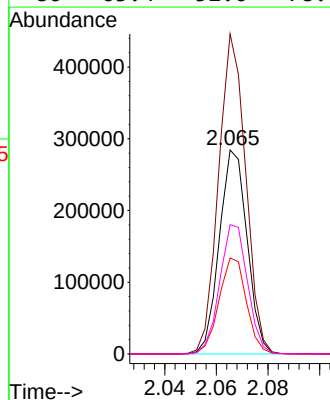
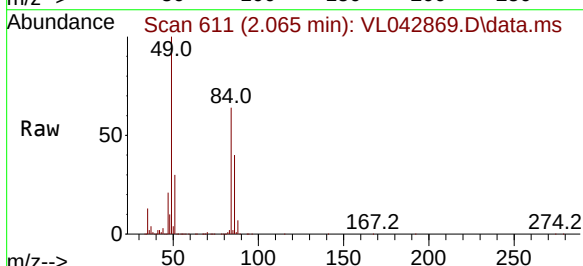
Manual Integrations
APPROVED

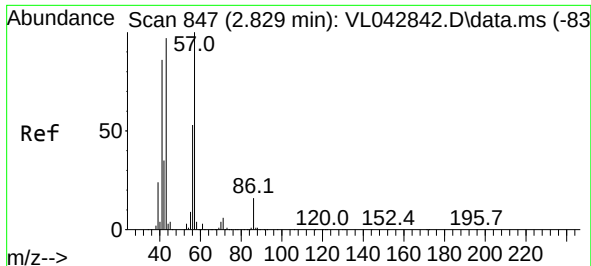
Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025



#20
Methylene Chloride
Concen: 29.188 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042869.D
Acq: 21 Aug 2025 17:17

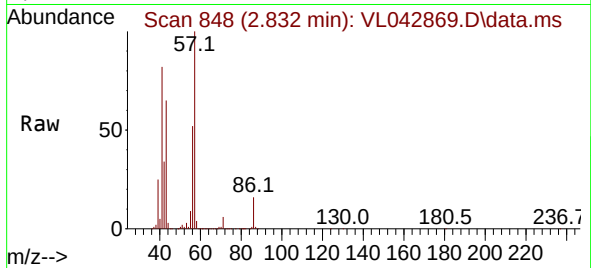
Tgt Ion: 84 Resp: 212757
Ion Ratio Lower Upper
84 100
49 156.9 112.3 168.5
51 47.0 36.0 54.0
86 63.4 52.0 78.0





#26
Hexane
Concen: 21.769 ppbv
RT: 2.832 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042869.D
Acq: 21 Aug 2025 17:17

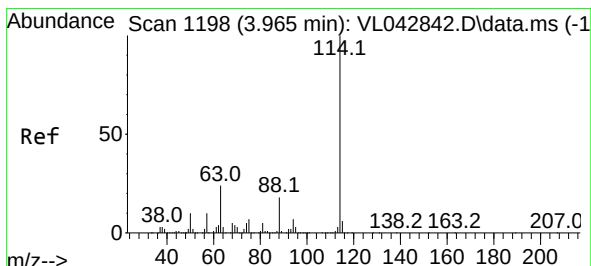
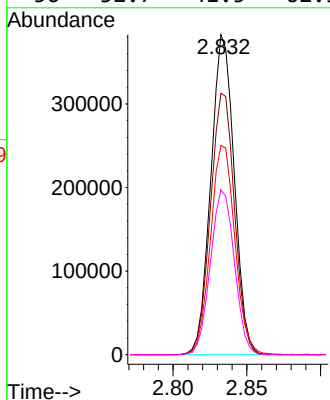
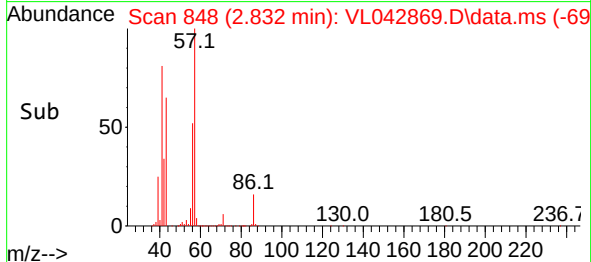
Instrument :
MSVOA_L
ClientSampleId :
IA1



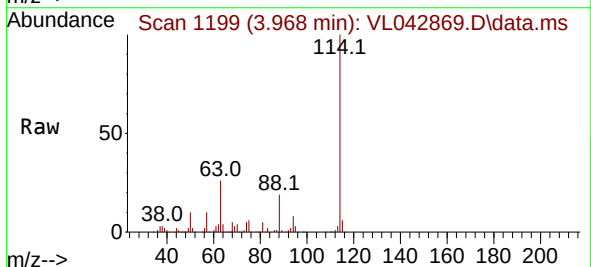
Tgt Ion: 57 Resp: 423160
Ion Ratio Lower Upper
57 100
41 84.4 68.6 103.0
43 68.5 168.5 252.7
56 52.7 41.5 62.3

Manual Integrations
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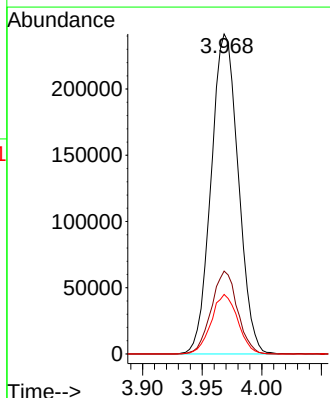
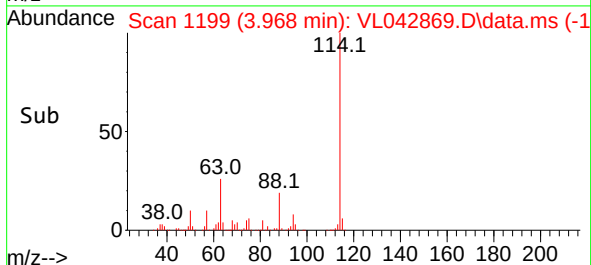
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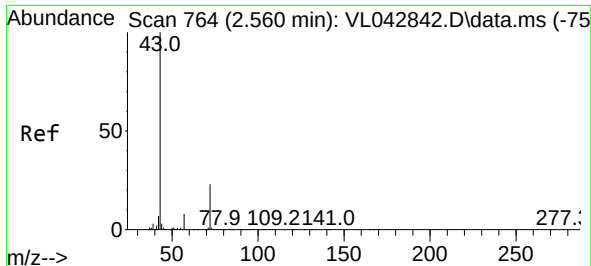


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 1199
Delta R.T. 0.003 min
Lab File: VL042869.D
Acq: 21 Aug 2025 17:17



Tgt Ion:114 Resp: 382704
Ion Ratio Lower Upper
114 100
63 24.9 19.7 29.5
88 18.2 14.4 21.6





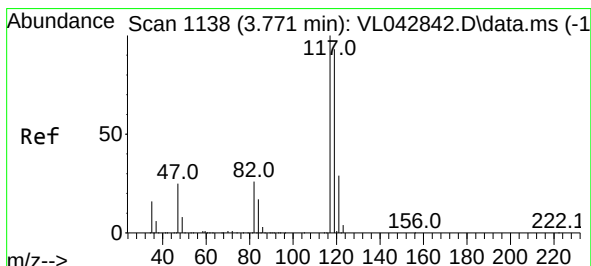
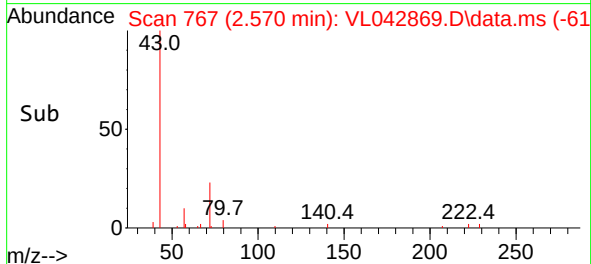
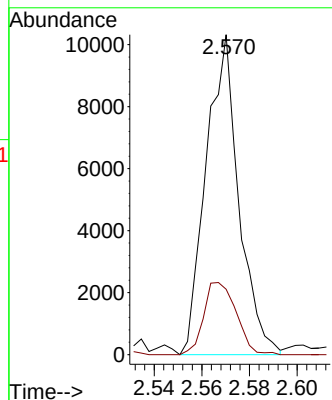
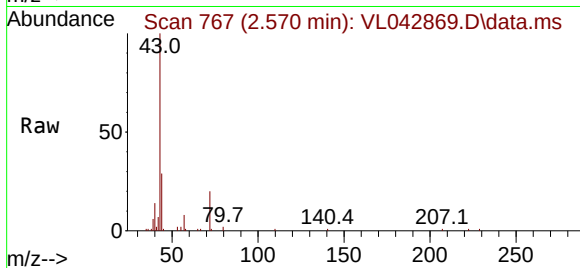
#34
2-Butanone
Concen: 0.380 ppbv
RT: 2.570 min Scan# 70
Delta R.T. 0.010 min
Lab File: VL042869.D
Acq: 21 Aug 2025 17:17

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 43 Resp: 983
Ion Ratio Lower Upper
43 100
72 22.5 18.6 28.0

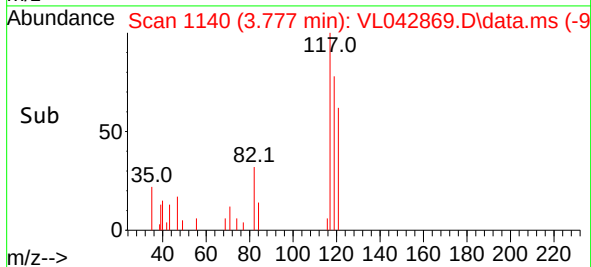
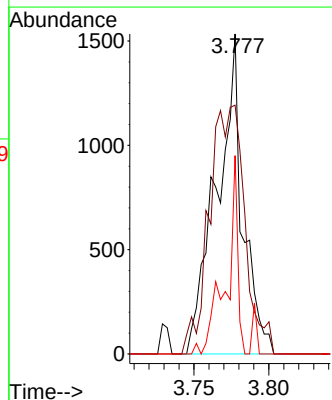
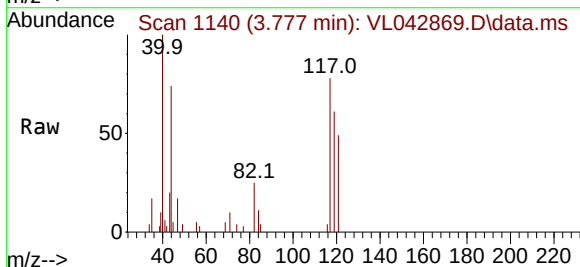
Manual Integrations
APPROVED

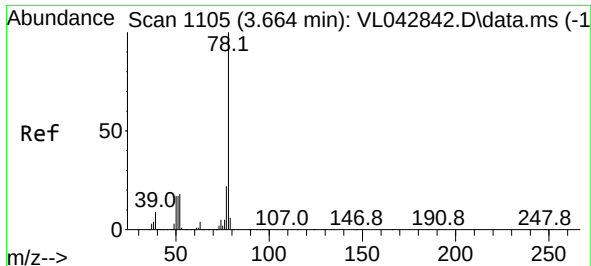
Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025



#35
Carbon Tetrachloride
Concen: 0.071 ppbv m
RT: 3.777 min Scan# 1140
Delta R.T. 0.006 min
Lab File: VL042869.D
Acq: 21 Aug 2025 17:17

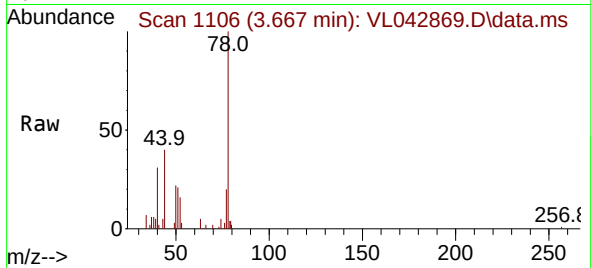
Tgt Ion:117 Resp: 1861
Ion Ratio Lower Upper
117 100
119 77.8 74.7 112.1
121 62.0 23.2 34.8#





#36
Benzene
Concen: 0.185 ppbv
RT: 3.667 min Scan# 1106
Delta R.T. 0.003 min
Lab File: VL042869.D
Acq: 21 Aug 2025 17:17

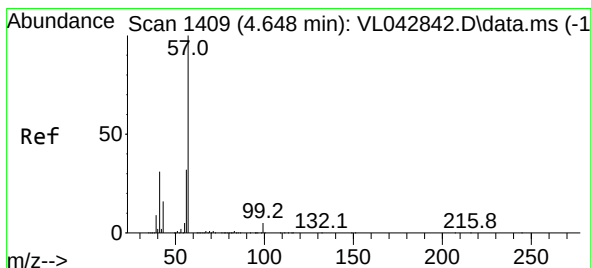
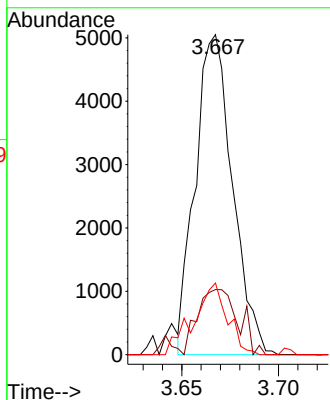
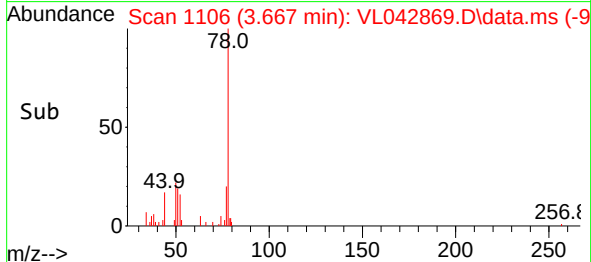
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 78	Resp: 676
Ion Ratio	Lower Upper
78 100	
77 20.4	17.7 26.5
50 22.4	13.9 20.9

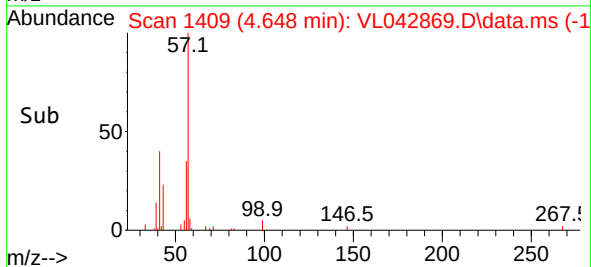
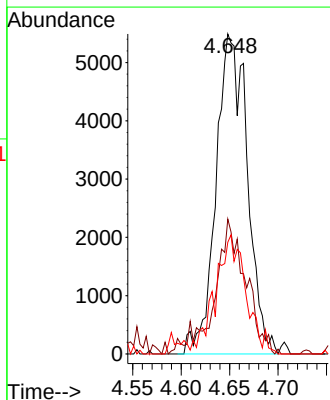
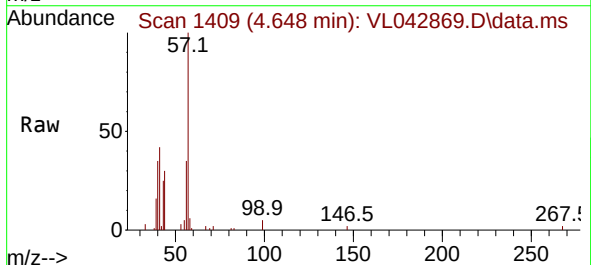
Manual Integrations
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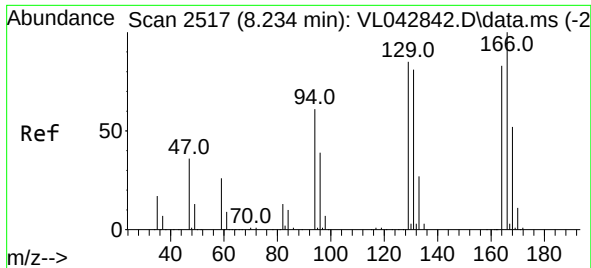
Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025



#44
2,2,4-Trimethylpentane
Concen: 0.198 ppbv m
RT: 4.648 min Scan# 1409
Delta R.T. 0.000 min
Lab File: VL042869.D
Acq: 21 Aug 2025 17:17

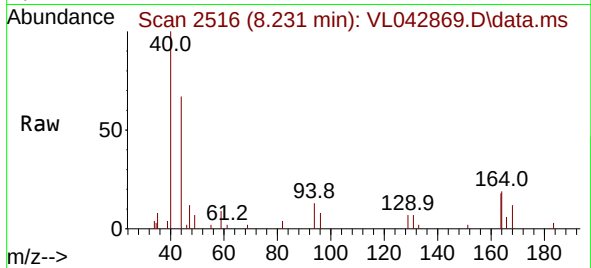
Tgt Ion: 57	Resp: 12347
Ion Ratio	Lower Upper
57 100	
41 42.1	24.8 37.2#
56 36.3	25.5 38.3





#52
Tetrachloroethene
Concen: 0.052 ppbv m
RT: 8.231 min Scan# 2119
Delta R.T. -0.003 min
Lab File: VL042869.D
Acq: 21 Aug 2025 17:17

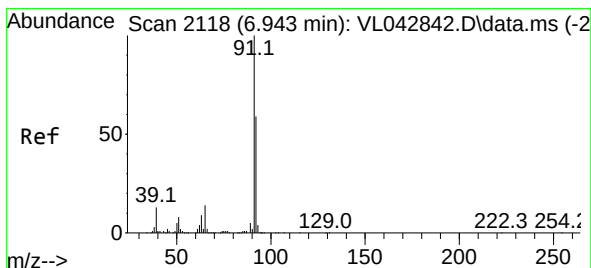
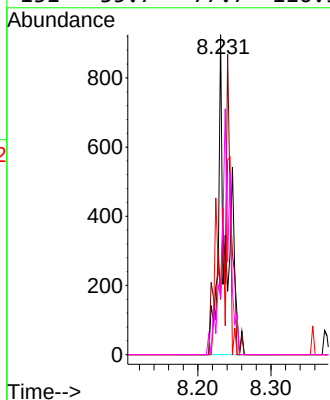
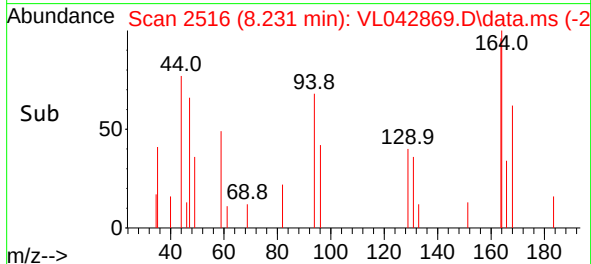
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:164 Resp: 692
Ion Ratio Lower Upper
164 100
166 33.8 96.5 144.7
129 39.5 81.8 122.6
131 35.7 77.7 116.5#

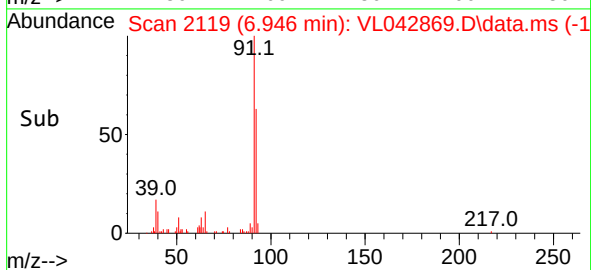
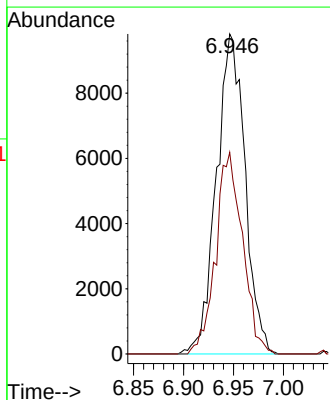
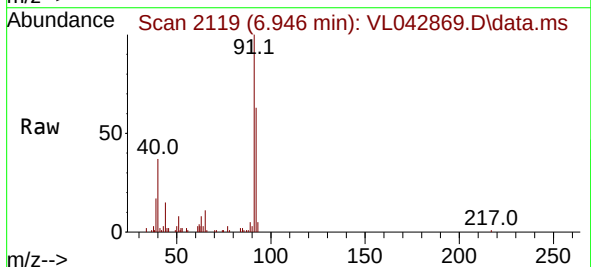
Manual Integrations
APPROVED

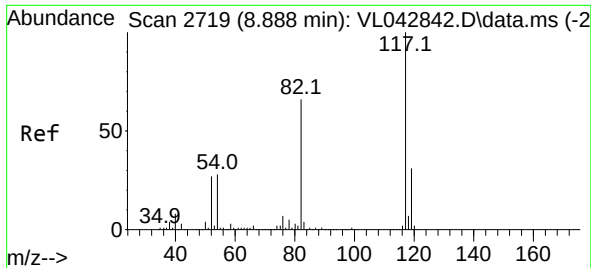
Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025



#53
Toluene
Concen: 0.449 ppbv
RT: 6.946 min Scan# 2119
Delta R.T. 0.003 min
Lab File: VL042869.D
Acq: 21 Aug 2025 17:17

Tgt Ion: 91 Resp: 19545
Ion Ratio Lower Upper
91 100
92 59.1 47.8 71.6





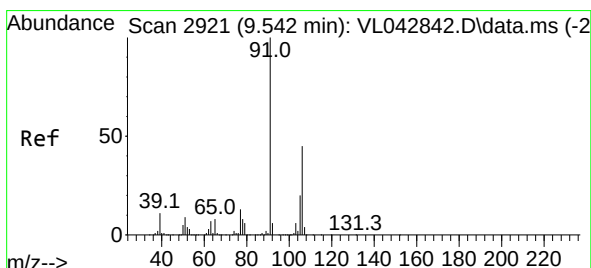
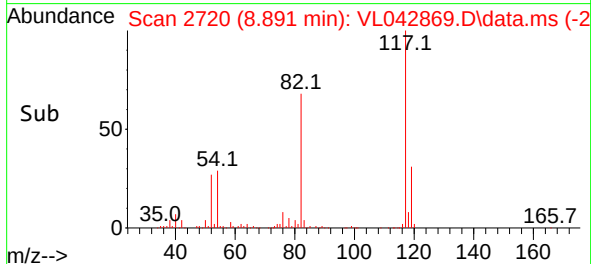
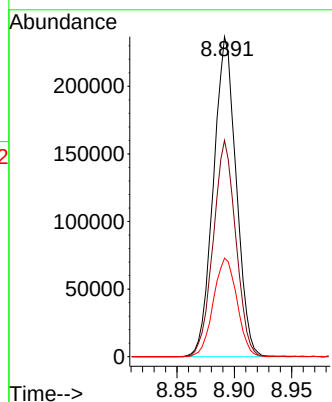
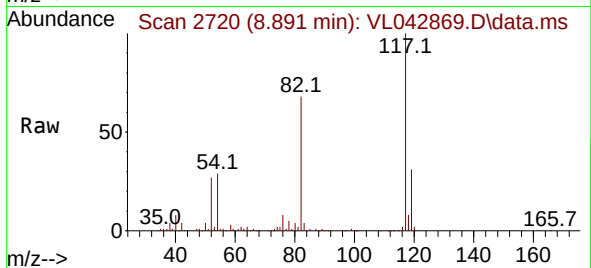
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2719
Delta R.T. 0.003 min
Lab File: VL042869.D
Acq: 21 Aug 2025 17:17

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 117 Resp: 327152
Ion Ratio Lower Upper
117 100
82 67.0 54.6 81.8
119 32.0 25.9 38.9

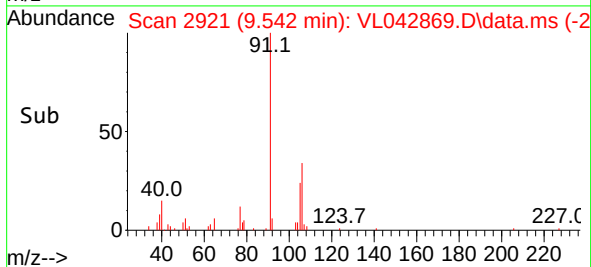
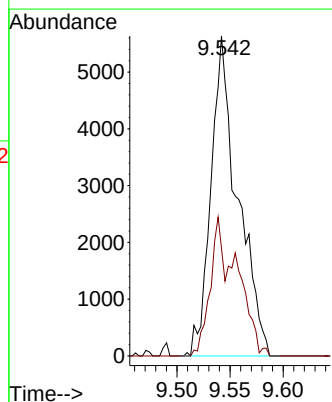
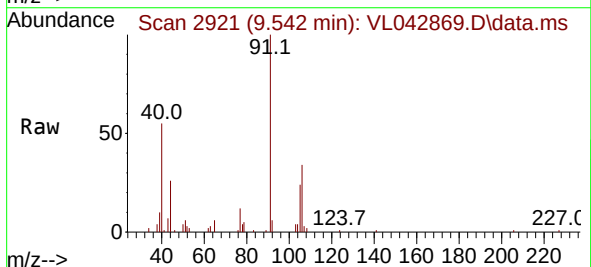
Manual Integrations
APPROVED

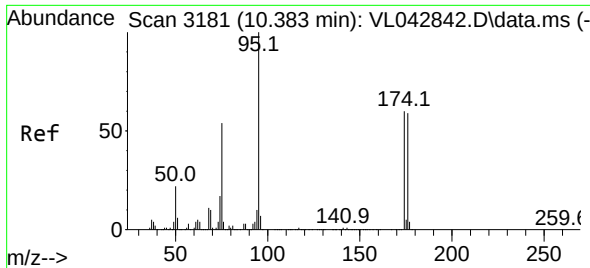
Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025



#59
m/p-Xylene
Concen: 0.218 ppbv m
RT: 9.542 min Scan# 2921
Delta R.T. 0.000 min
Lab File: VL042869.D
Acq: 21 Aug 2025 17:17

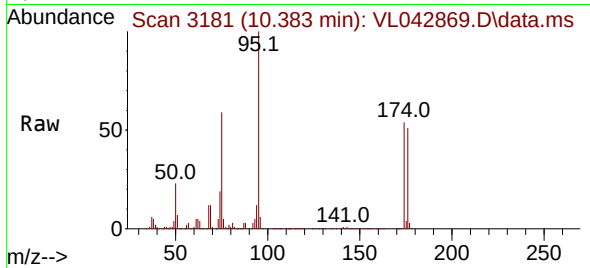
Tgt Ion: 91 Resp: 9866
Ion Ratio Lower Upper
91 100
106 43.4 0.0 0.0#





#68
1-Bromo-4-Fluorobenzene
Concen: 10.236 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. 0.000 min
Lab File: VL042869.D
Acq: 21 Aug 2025 17:17

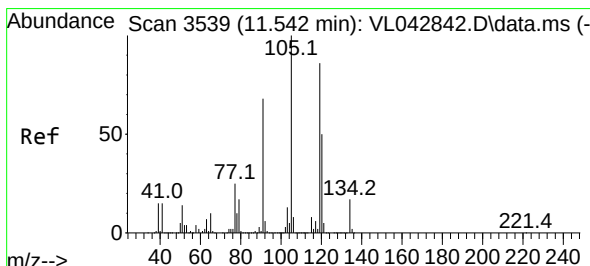
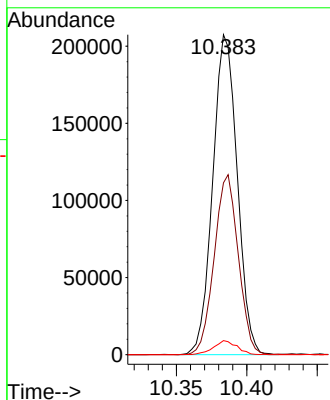
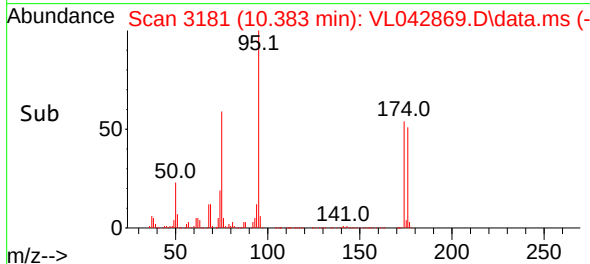
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 95 Resp: 251130
Ion Ratio Lower Upper
95 100
174 55.5 48.4 72.6
175 4.2 3.8 5.8

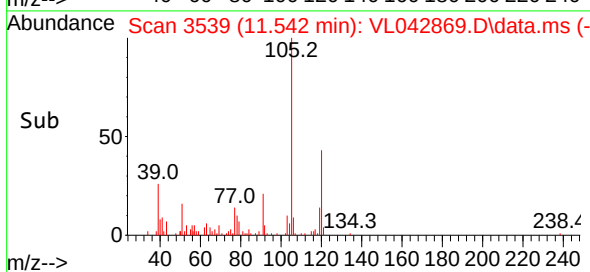
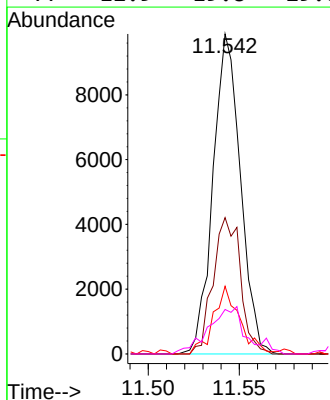
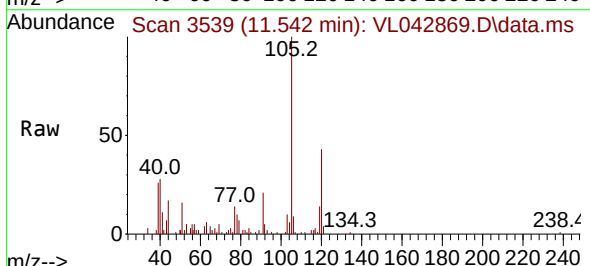
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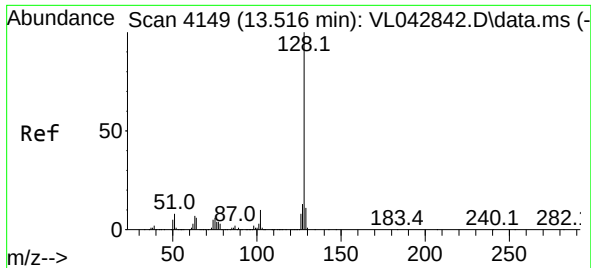
Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.201 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.000 min
Lab File: VL042869.D
Acq: 21 Aug 2025 17:17

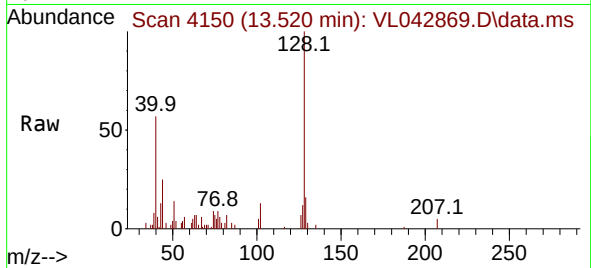
Tgt Ion:105 Resp: 10340
Ion Ratio Lower Upper
105 100
120 42.6 39.8 59.6
91 25.7 54.2 81.4#
77 12.9 19.8 29.6#





#79
Naphthalene
Concen: 0.108 ppbv
RT: 13.520 min Scan# 4150
Delta R.T. 0.003 min
Lab File: VL042869.D
Acq: 21 Aug 2025 17:17

Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:	128	Resp:	5030
Ion	Ratio	Lower	Upper
128	100		
127	12.3	10.6	16.0
129	16.0	8.9	13.3

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025

