

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
 Data File : VL042661.D
 Acq On : 20 Jun 2025 07:50
 Operator : SY/MD
 Sample : Q2368-01DUP 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/23/2025
 Supervised By :Mahesh Dadoda 06/23/2025

Quant Time: Jun 21 01:52:17 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	107720	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	272851	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	266896	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 209773 10.485 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 104.800%

Target Compounds

					Qvalue	
10) Heptane	4.991	43	35437m	1.712	ppbv	
13) Ethanol	1.722	45	3681	4.206	ppbv	97
15) Acetone	1.839	43	29532	2.276	ppbv	91
20) Methylene Chloride	2.065	84	846	0.198	ppbv	92
26) Hexane	2.829	57	105398	6.532	ppbv #	39
27) Carbon Disulfide	2.156	76	2918	0.236	ppbv #	1
29) Chloroform	2.855	83	28267	1.347	ppbv	99
30) Cyclohexane	3.871	84	2072m	0.155	ppbv	
34) 2-Butanone	2.564	43	24745	1.272	ppbv	100
36) Benzene	3.664	78	5469	0.204	ppbv #	93
41) Tetrahydrofuran	3.065	42	6710m	0.589	ppbv	
51) 2-Hexanone	7.444	43	108660m	5.076	ppbv	
52) Tetrachloroethene	8.231	164	1345m	0.134	ppbv	
53) Toluene	6.946	91	78813	2.538	ppbv	99
58) Ethyl Benzene	9.367	91	23067	0.510	ppbv	95
59) m/p-Xylene	9.539	91	145101	4.073	ppbv	97
60) o-Xylene	9.972	91	58551	1.648	ppbv	94
62) Isopropylbenzene	10.548	105	12744	0.243	ppbv	96
72) 4-Ethyltoluene	11.134	105	15083	0.340	ppbv #	60
74) 1,2,4-Trimethylbenzene	11.542	105	27758	0.682	ppbv #	63

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

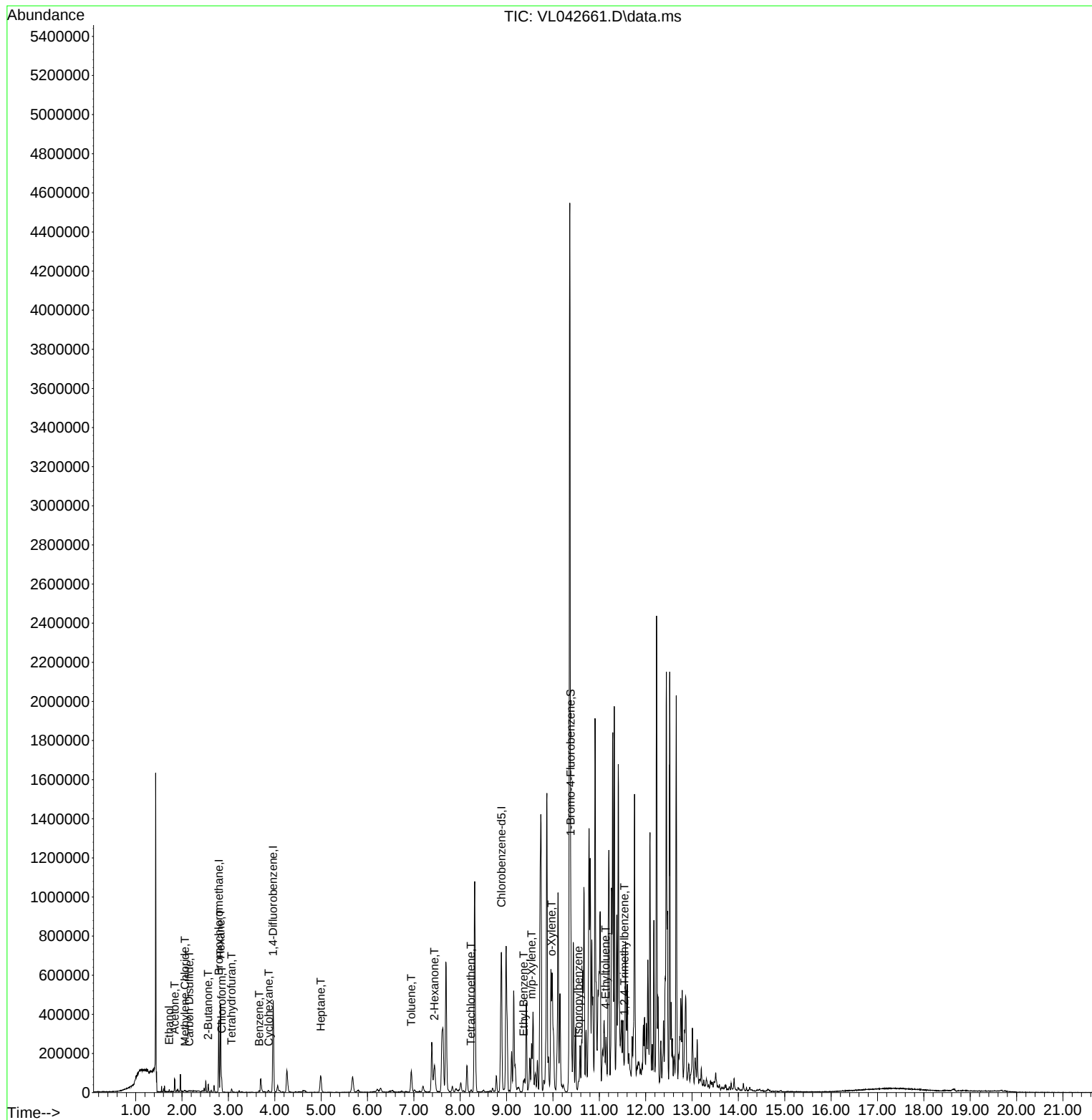
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
Data File : VL042661.D
Acq On : 20 Jun 2025 07:50
Operator : SY/MD
Sample : Q2368-01DUP 10X
Misc : 400mL/MSVOA_L
ALS Vial : 10 Sample Multiplier: 1

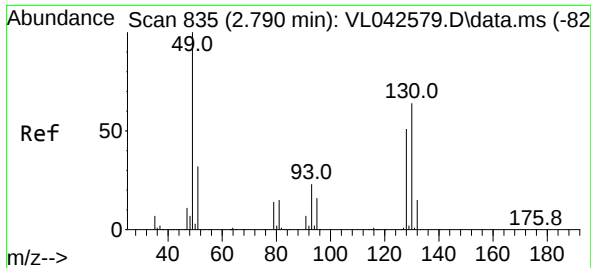
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP

Quant Time: Jun 21 01:52:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

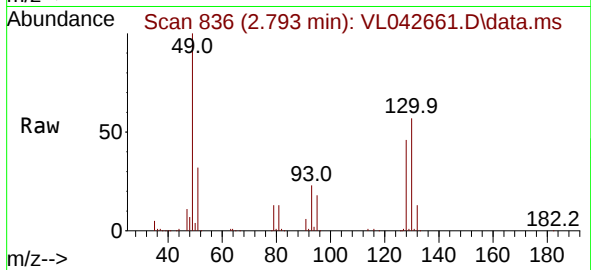
Reviewed By : Semsettin Yesilyurt 06/23/2025
Supervised By : Mahesh Dadoda 06/23/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042661.D
Acq: 20 Jun 2025 07:50

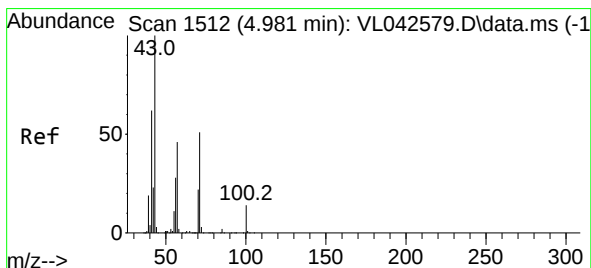
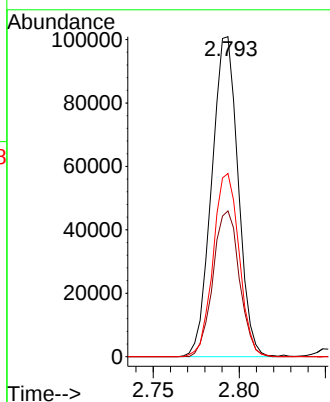
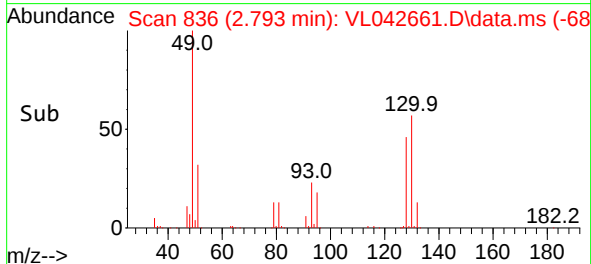
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP



Tgt Ion: 49 Resp: 107720
Ion Ratio Lower Upper
49 100
128 45.6 24.2 72.6
130 56.3 30.4 91.2

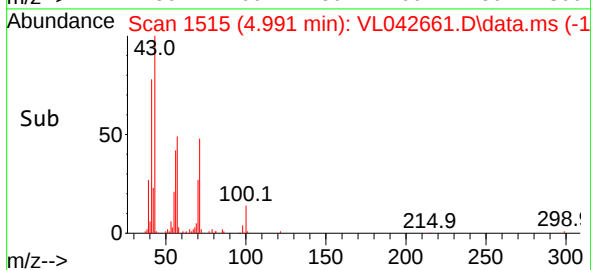
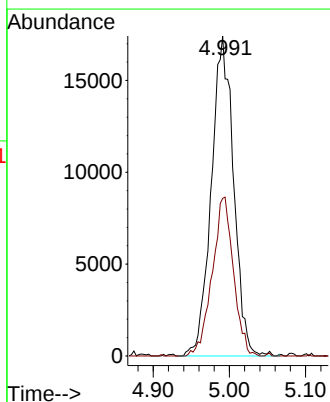
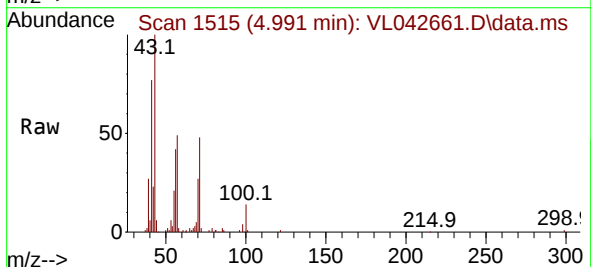
Manual Integrations
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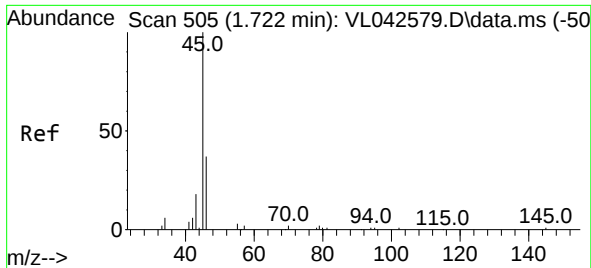
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#10
Heptane
Concen: 1.712 ppbv m
RT: 4.991 min Scan# 1515
Delta R.T. 0.010 min
Lab File: VL042661.D
Acq: 20 Jun 2025 07:50

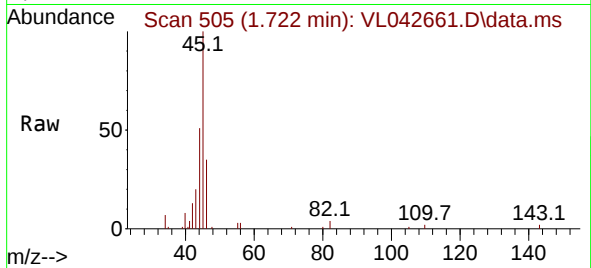
Tgt Ion: 43 Resp: 35437
Ion Ratio Lower Upper
43 100
57 47.4 38.9 58.3





#13
Ethanol
Concen: 4.206 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042661.D
Acq: 20 Jun 2025 07:50

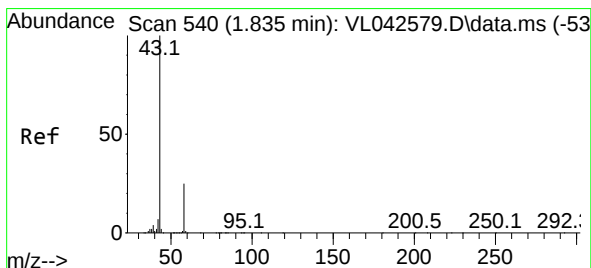
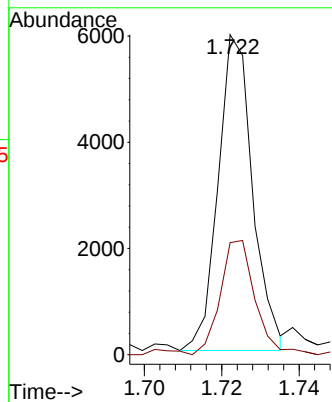
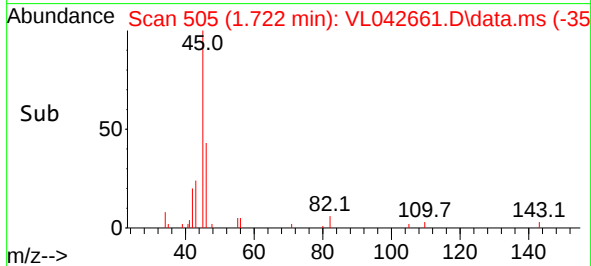
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP



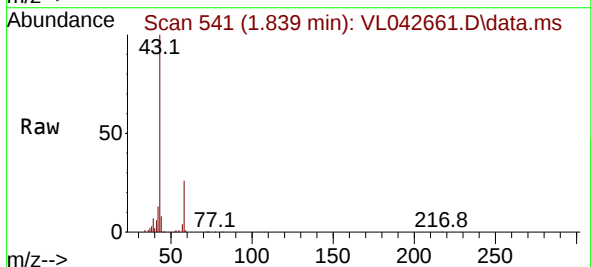
Tgt Ion: 45 Resp: 368
Ion Ratio Lower Upper
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46 38.1 14.5 58.1

Manual Integrations
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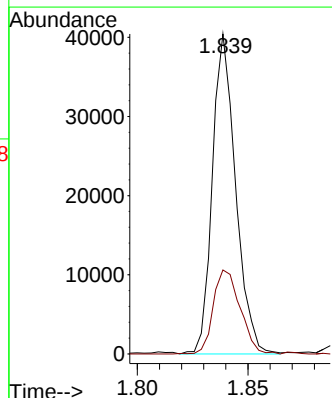
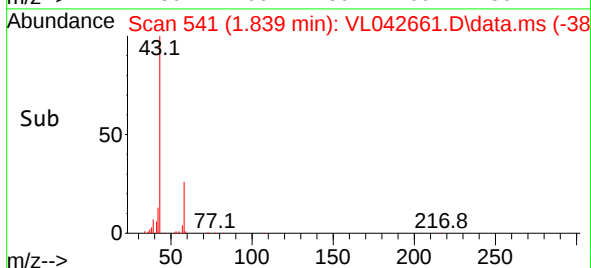
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

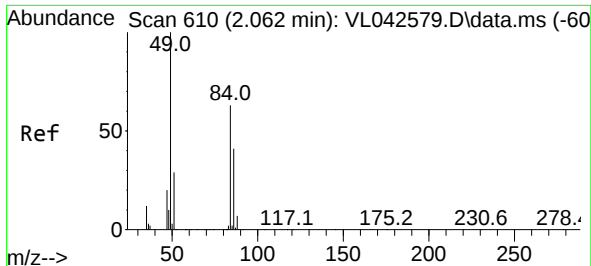


#15
Acetone
Concen: 2.276 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042661.D
Acq: 20 Jun 2025 07:50



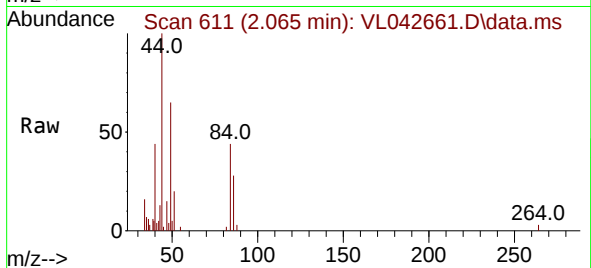
Tgt Ion: 43 Resp: 29532
Ion Ratio Lower Upper
43 100
58 30.6 21.0 31.4





#20
Methylene Chloride
Concen: 0.198 ppbv
RT: 2.065 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042661.D
Acq: 20 Jun 2025 07:50

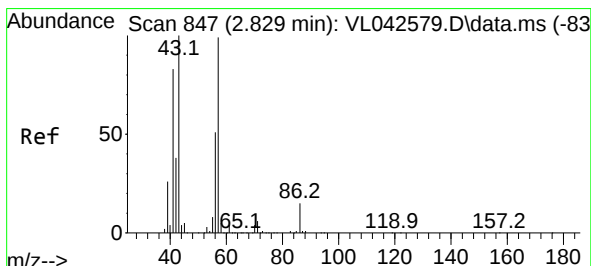
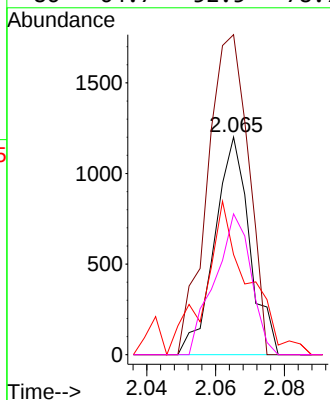
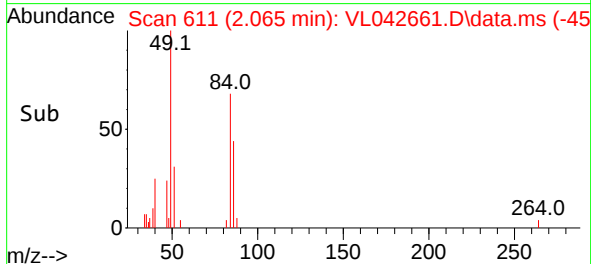
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP



Tgt Ion:	84	Resp:	840
Ion	Ratio	Lower	Upper
84	100		
49	147.0	128.8	193.2
51	41.6	38.6	57.8
86	64.7	52.5	78.7

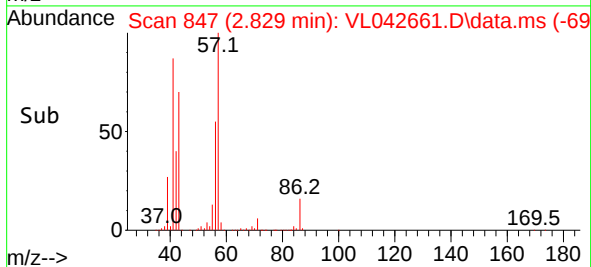
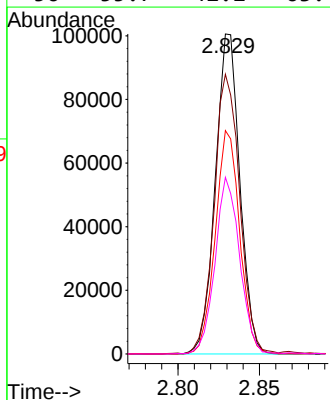
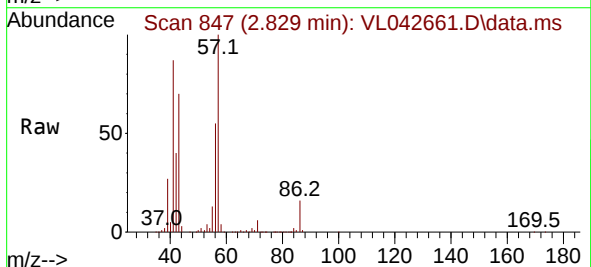
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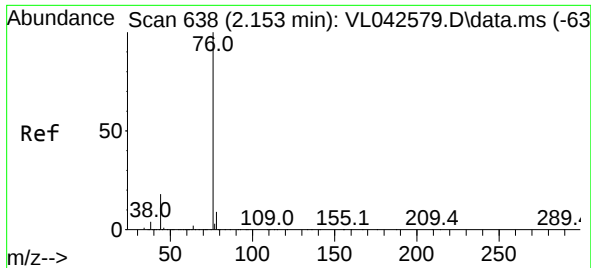
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#26
Hexane
Concen: 6.532 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL042661.D
Acq: 20 Jun 2025 07:50

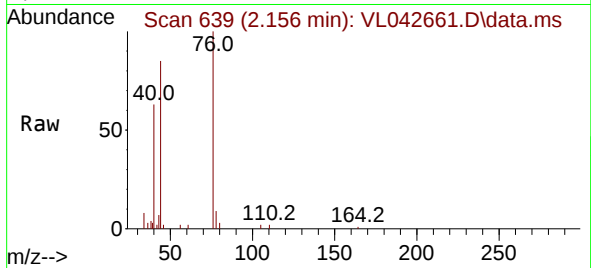
Tgt Ion:	57	Resp:	105398
Ion	Ratio	Lower	Upper
57	100		
41	92.2	70.6	106.0
43	69.6	181.1	271.7#
56	55.7	42.2	63.4





#27
Carbon Disulfide
Concen: 0.236 ppbv
RT: 2.156 min Scan# 611
Delta R.T. 0.003 min
Lab File: VL042661.D
Acq: 20 Jun 2025 07:50

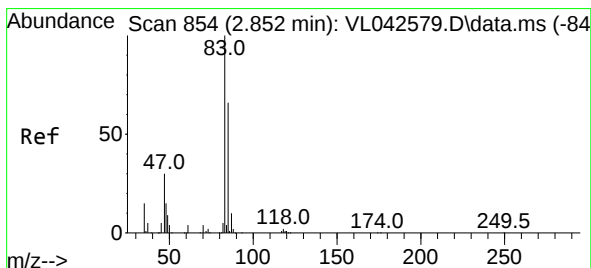
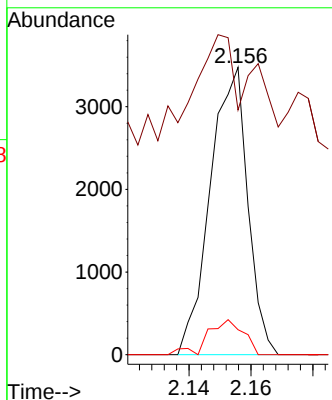
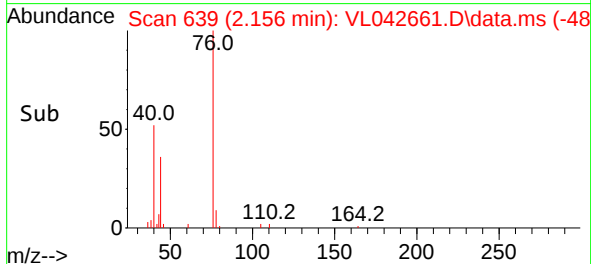
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP



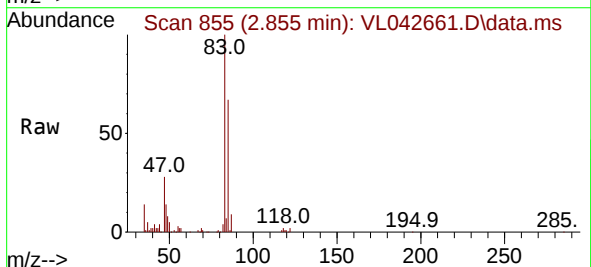
Tgt Ion: 76 Resp: 2918
Ion Ratio Lower Upper
76 100
44 101.3 21.3 31.9
78 11.6 9.4 14.0

Manual Integrations
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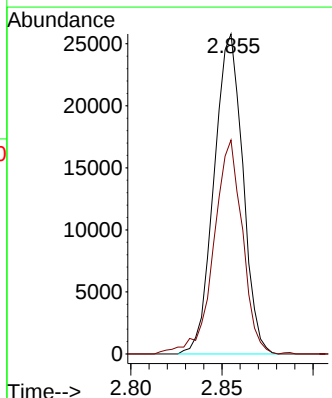
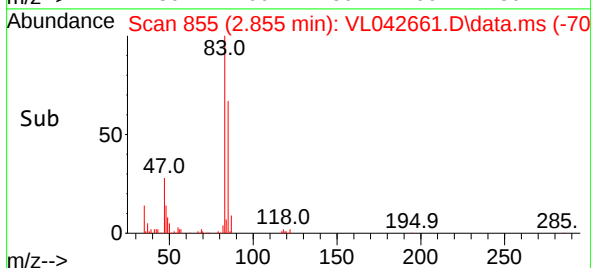
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

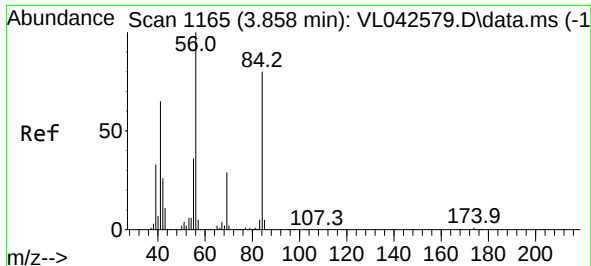


#29
Chloroform
Concen: 1.347 ppbv
RT: 2.855 min Scan# 855
Delta R.T. 0.003 min
Lab File: VL042661.D
Acq: 20 Jun 2025 07:50



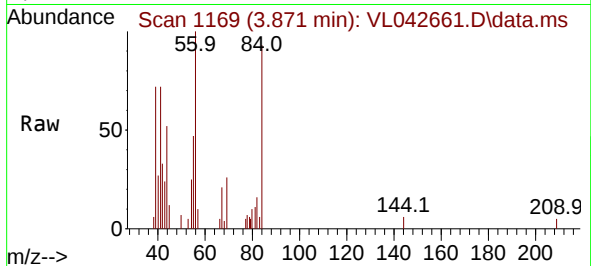
Tgt Ion: 83 Resp: 28267
Ion Ratio Lower Upper
83 100
85 66.9 52.8 79.2





#30
Cyclohexane
Concen: 0.155 ppbv m
RT: 3.871 min Scan# 1169
Delta R.T. 0.013 min
Lab File: VL042661.D
Acq: 20 Jun 2025 07:50

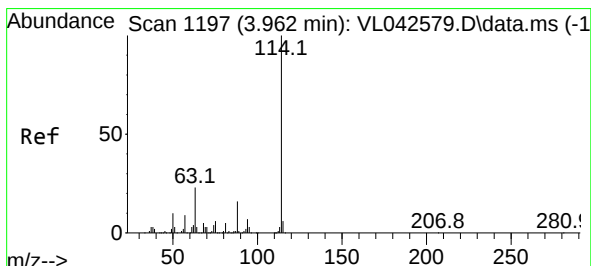
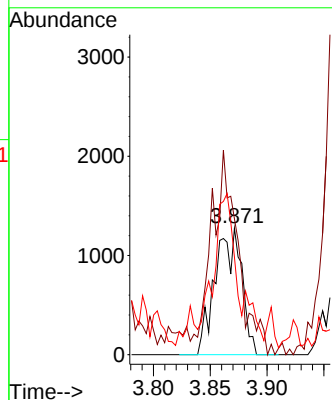
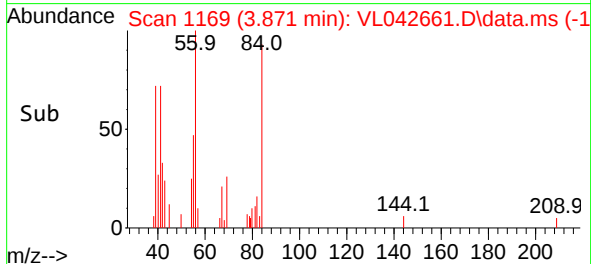
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP



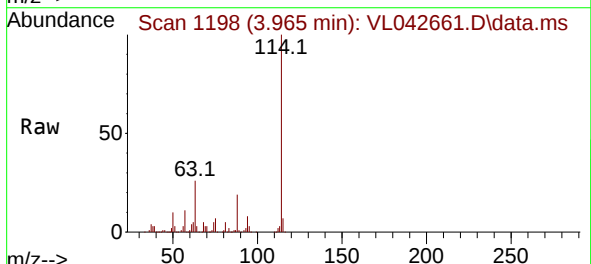
Tgt Ion: 84 Resp: 2072
Ion Ratio Lower Upper
84 100
56 177.0 103.7 155.5
41 143.7 65.1 97.7

Manual Integrations
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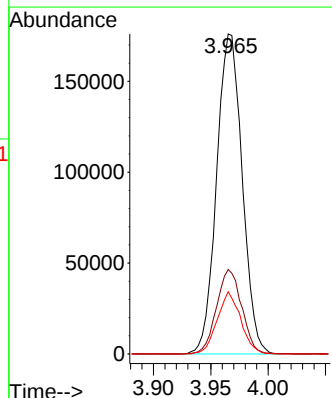
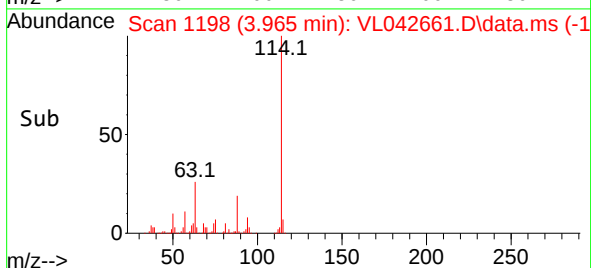
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

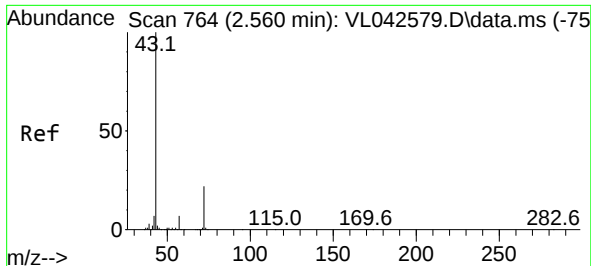


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.003 min
Lab File: VL042661.D
Acq: 20 Jun 2025 07:50



Tgt Ion:114 Resp: 272851
Ion Ratio Lower Upper
114 100
63 26.1 19.0 28.6
88 17.9 13.6 20.4





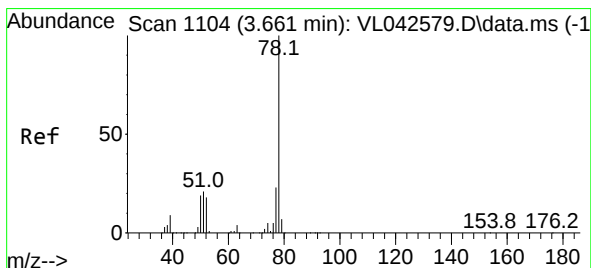
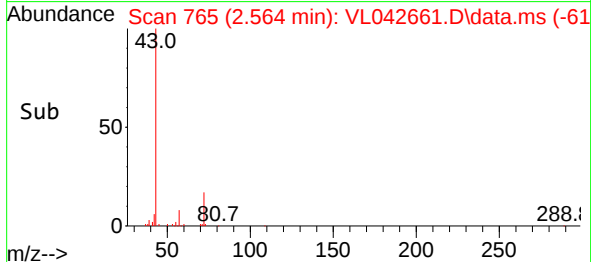
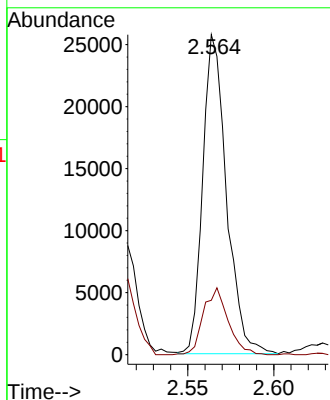
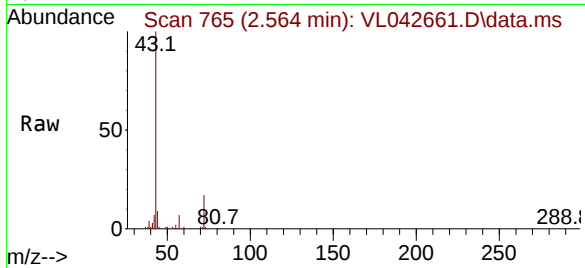
#34
2-Butanone
Concen: 1.272 ppbv
RT: 2.564 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042661.D
Acq: 20 Jun 2025 07:50

Instrument :
MSVOA_L
ClientSampleId :
SV1DUP

Tgt Ion: 43 Resp: 2474
Ion Ratio Lower Upper
43 100
72 21.9 17.7 26.5

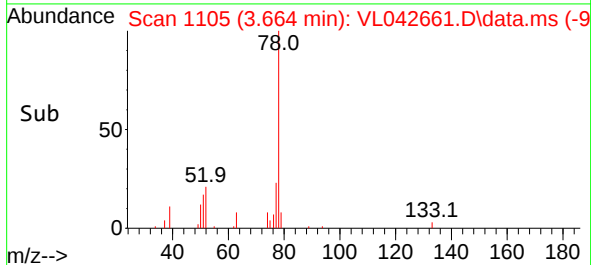
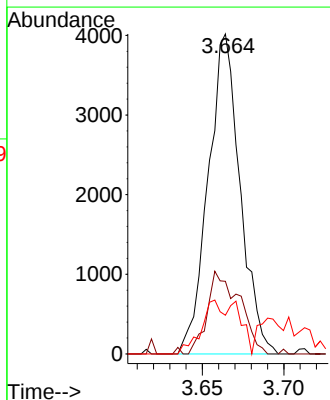
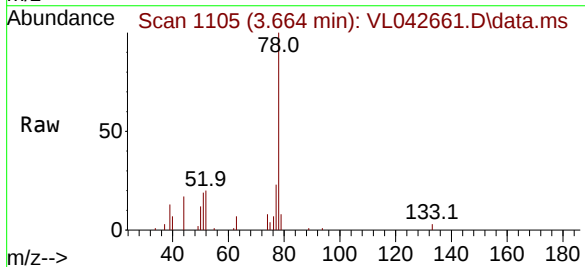
Manual Integrations
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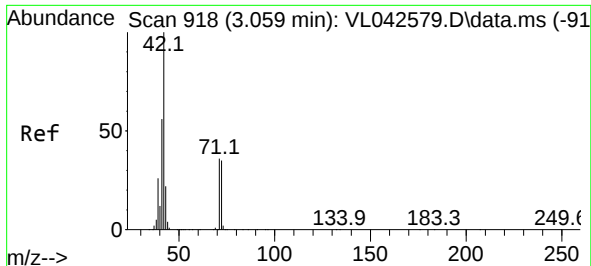
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#36
Benzene
Concen: 0.204 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.003 min
Lab File: VL042661.D
Acq: 20 Jun 2025 07:50

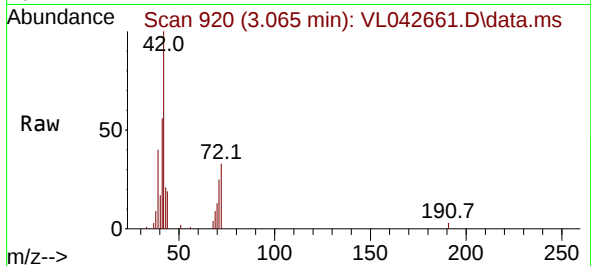
Tgt Ion: 78 Resp: 5469
Ion Ratio Lower Upper
78 100
77 22.7 18.2 27.2
50 12.1 15.2 22.8#





#41
Tetrahydrofuran
Concen: 0.589 ppbv m
RT: 3.065 min Scan# 918
Delta R.T. 0.006 min
Lab File: VL042661.D
Acq: 20 Jun 2025 07:50

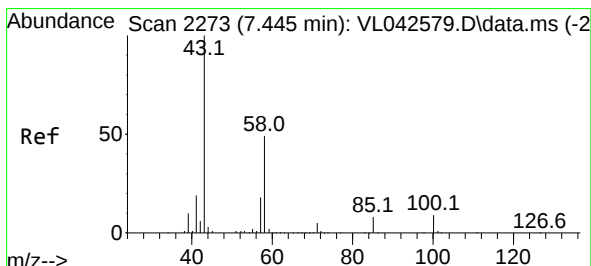
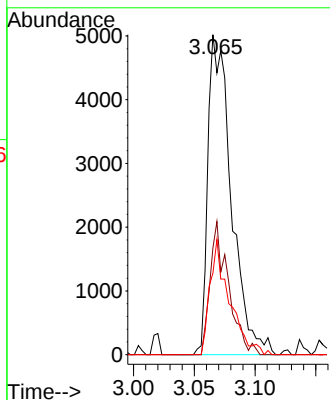
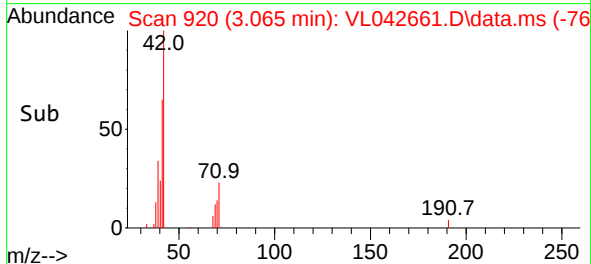
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP



Tgt Ion: 42 Resp: 6710
Ion Ratio Lower Upper
42 100
72 0.0 28.9 43.3#
71 0.0 28.5 42.7#

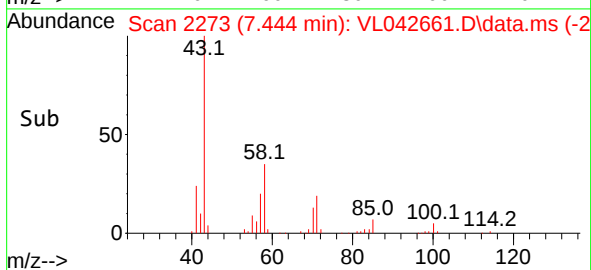
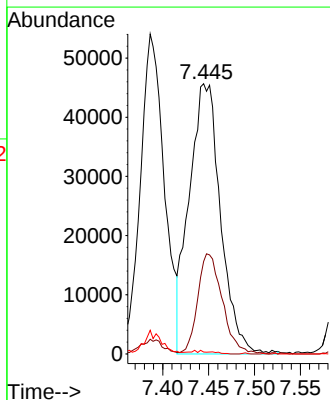
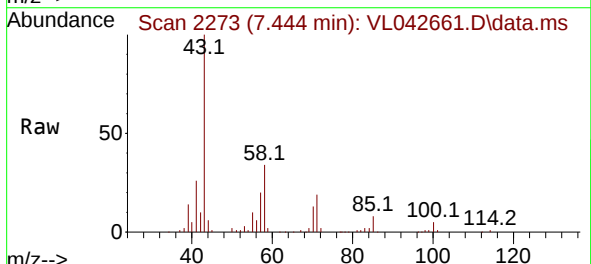
Manual Integrations
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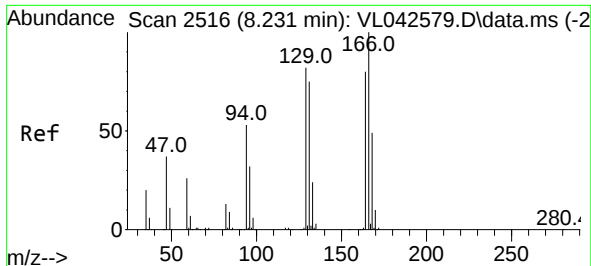
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#51
2-Hexanone
Concen: 5.076 ppbv m
RT: 7.444 min Scan# 2273
Delta R.T. -0.000 min
Lab File: VL042661.D
Acq: 20 Jun 2025 07:50

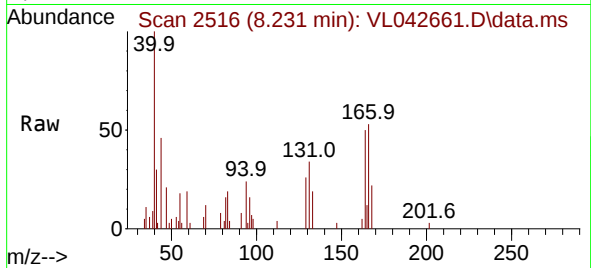
Tgt Ion: 43 Resp: 108660
Ion Ratio Lower Upper
43 100
58 29.2 39.9 59.9#
98 0.0 0.1 0.1#





#52
Tetrachloroethene
Concen: 0.134 ppbv m
RT: 8.231 min Scan# 2119
Delta R.T. 0.000 min
Lab File: VL042661.D
Acq: 20 Jun 2025 07:50

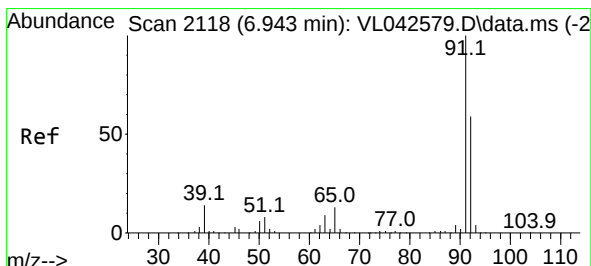
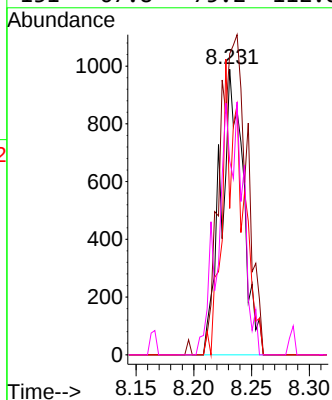
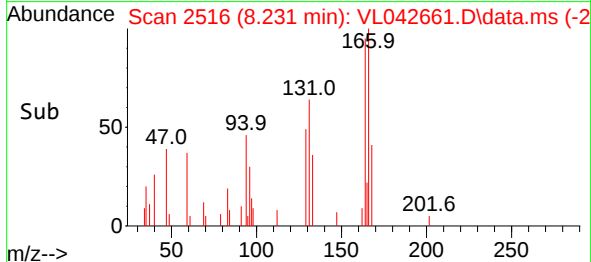
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP



Tgt Ion:164 Resp: 134
Ion Ratio Lower Upper
164 100
166 105.5 100.0 150.0
129 51.3 82.2 123.4
131 67.8 75.2 112.8

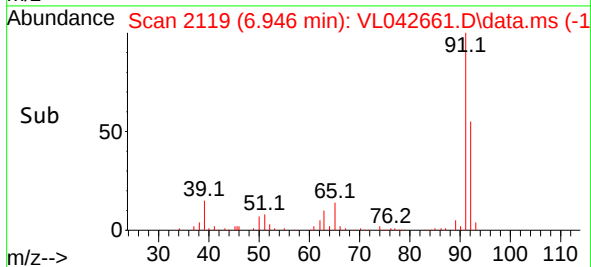
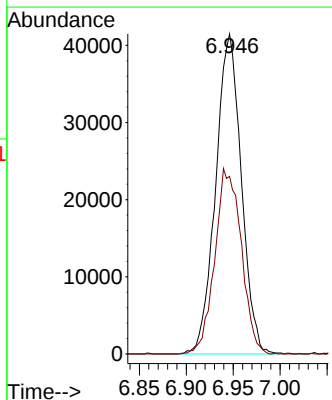
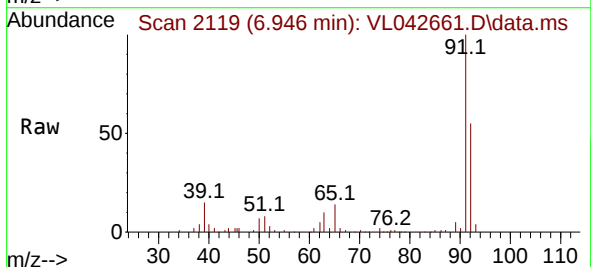
Manual Integrations
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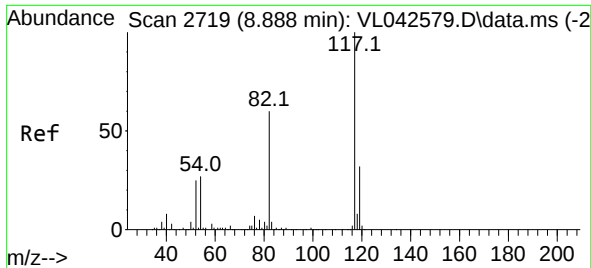
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#53
Toluene
Concen: 2.538 ppbv
RT: 6.946 min Scan# 2119
Delta R.T. 0.003 min
Lab File: VL042661.D
Acq: 20 Jun 2025 07:50

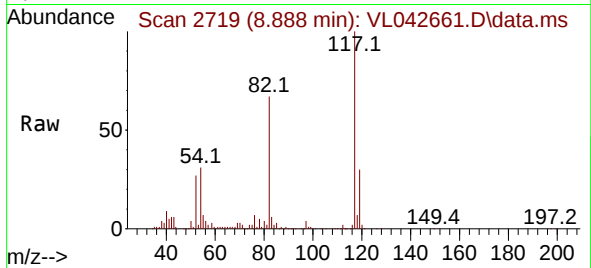
Tgt Ion: 91 Resp: 78813
Ion Ratio Lower Upper
91 100
92 59.6 48.2 72.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.000 min
Lab File: VL042661.D
Acq: 20 Jun 2025 07:50

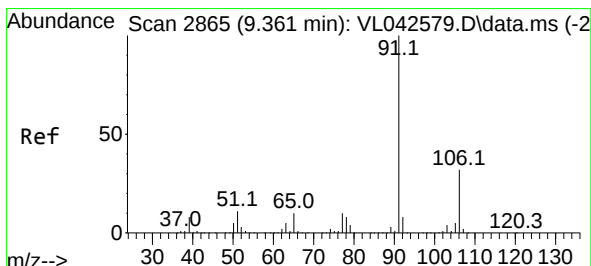
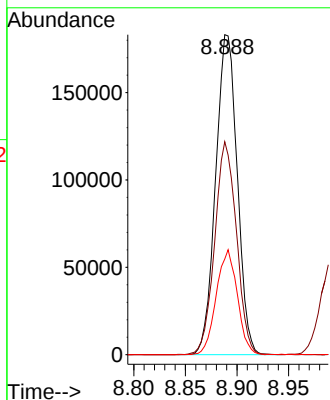
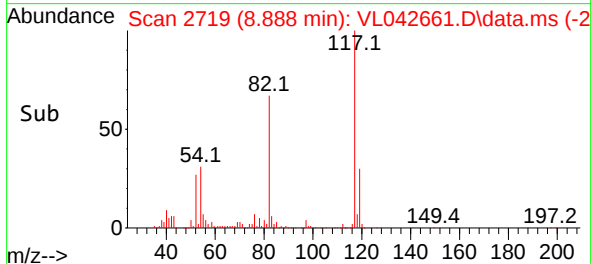
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP



Tgt Ion: 117 Resp: 266890
Ion Ratio Lower Upper
117 100
82 67.1 51.2 76.8
119 32.0 26.3 39.5

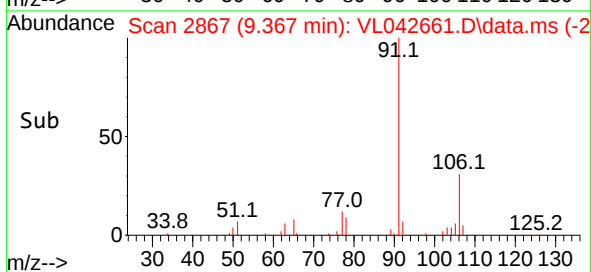
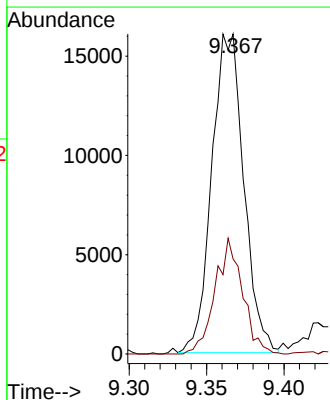
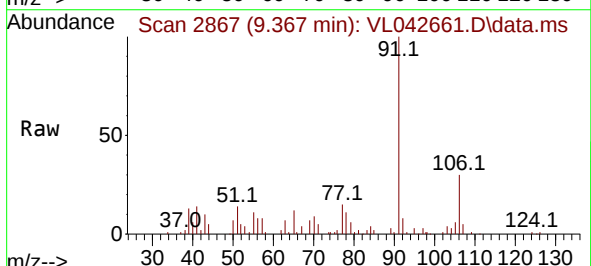
Manual Integrations
APPROVED

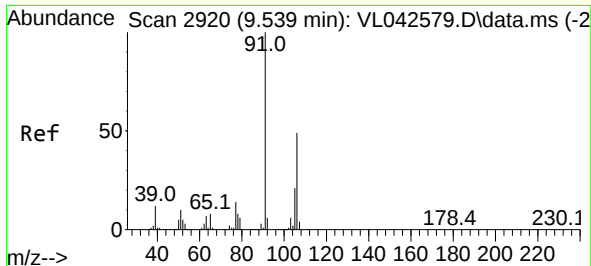
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#58
Ethyl Benzene
Concen: 0.510 ppbv
RT: 9.367 min Scan# 2867
Delta R.T. 0.006 min
Lab File: VL042661.D
Acq: 20 Jun 2025 07:50

Tgt Ion: 91 Resp: 23067
Ion Ratio Lower Upper
91 100
106 29.8 25.9 38.9





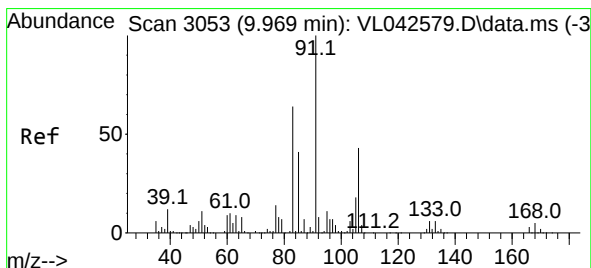
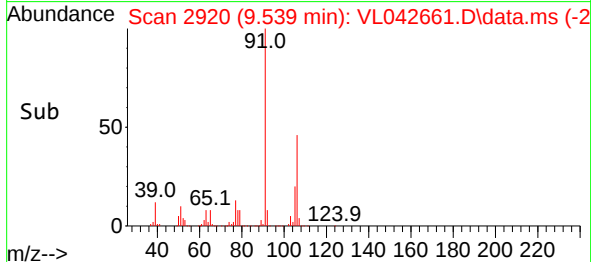
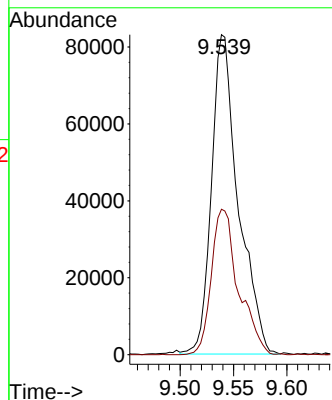
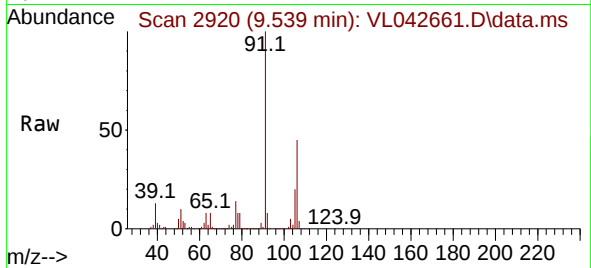
#59
m/p-Xylene
Concen: 4.073 ppbv
RT: 9.539 min Scan# 2920
Delta R.T. 0.000 min
Lab File: VL042661.D
Acq: 20 Jun 2025 07:50

Instrument :
MSVOA_L
ClientSampleId :
SV1DUP

Tgt Ion: 91 Resp: 14510
Ion Ratio Lower Upper
91 100
106 46.2 38.8 58.2

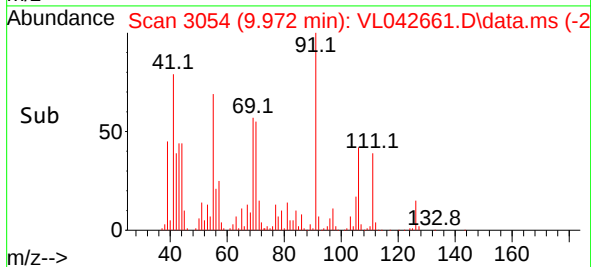
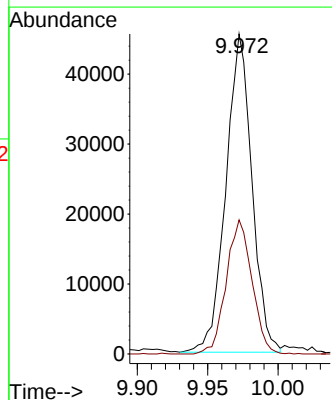
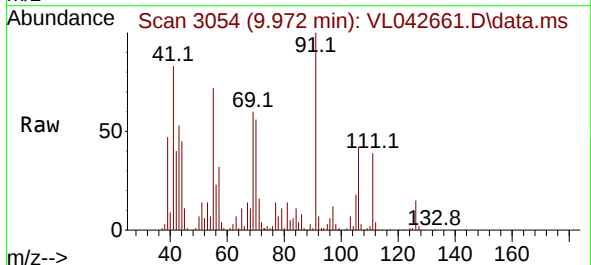
Manual Integrations
APPROVED

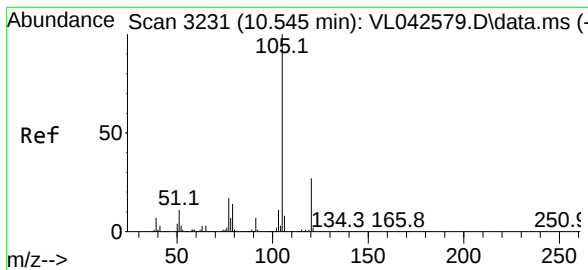
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#60
o-Xylene
Concen: 1.648 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.003 min
Lab File: VL042661.D
Acq: 20 Jun 2025 07:50

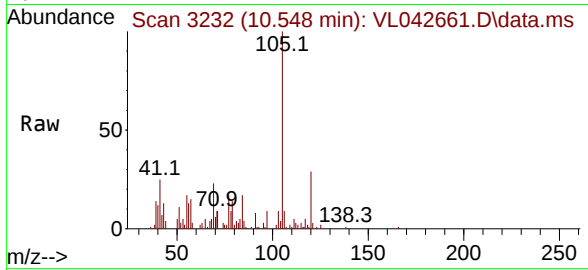
Tgt Ion: 91 Resp: 58551
Ion Ratio Lower Upper
91 100
106 41.7 22.9 68.5





#62
Isopropylbenzene
Concen: 0.243 ppbv
RT: 10.548 min Scan# 3181
Delta R.T. 0.003 min
Lab File: VL042661.D
Acq: 20 Jun 2025 07:50

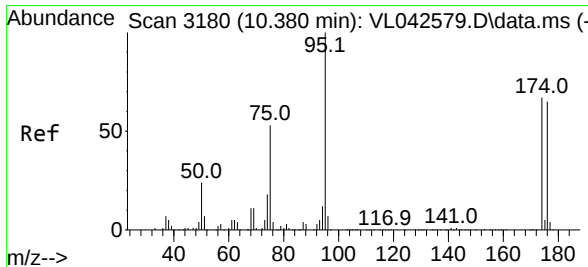
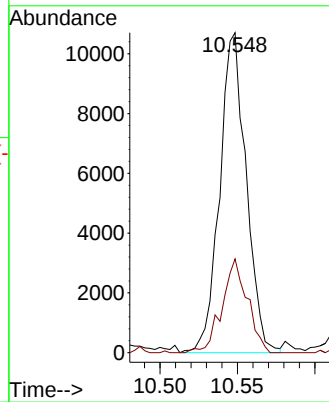
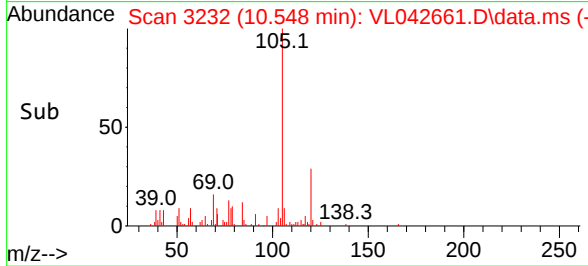
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP



Tgt Ion:105 Resp: 12744
Ion Ratio Lower Upper
105 100
120 28.2 20.9 31.3

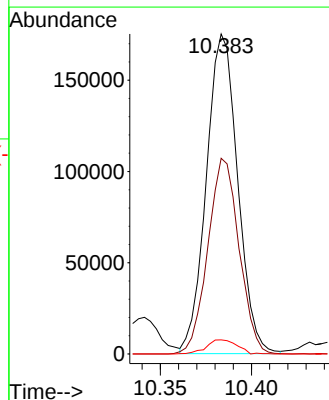
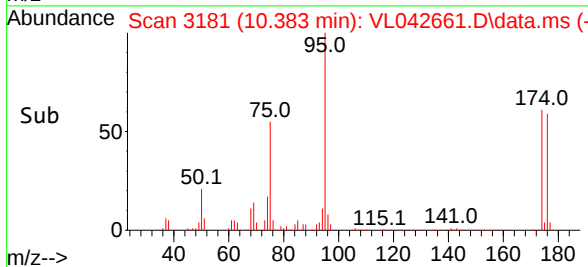
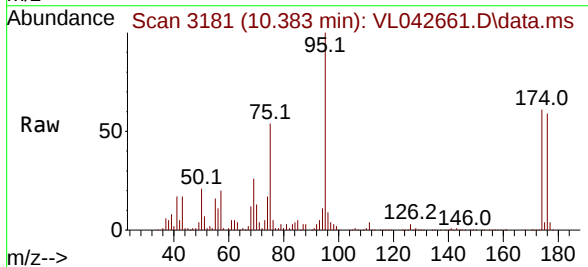
Manual Integrations
APPROVED

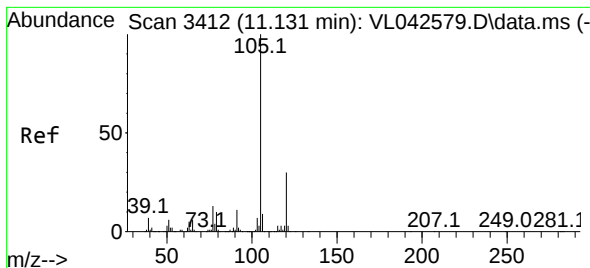
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.485 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. 0.003 min
Lab File: VL042661.D
Acq: 20 Jun 2025 07:50

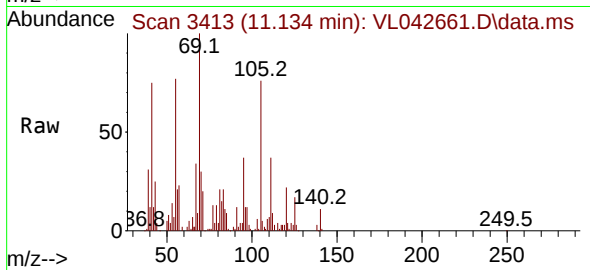
Tgt Ion: 95 Resp: 209773
Ion Ratio Lower Upper
95 100
174 60.9 53.1 79.7
175 4.3 4.2 6.2





#72
4-Ethyltoluene
Concen: 0.340 ppbv
RT: 11.134 min Scan# 3412
Delta R.T. 0.003 min
Lab File: VL042661.D
Acq: 20 Jun 2025 07:50

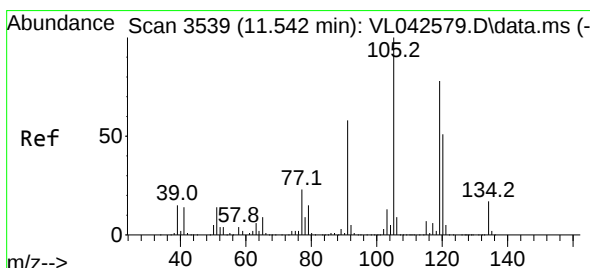
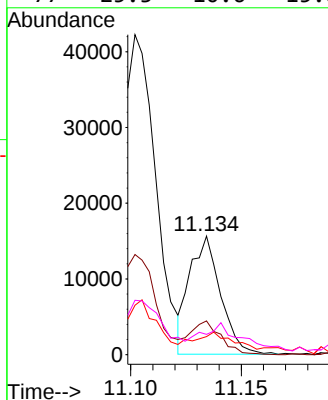
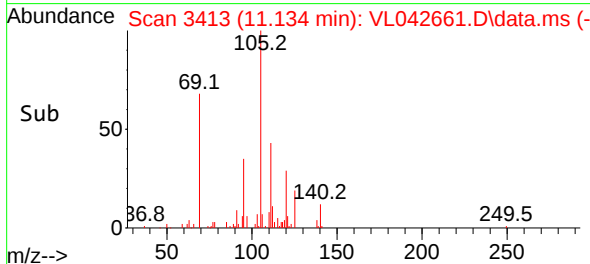
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP



Tgt Ion:105 Resp: 15083
Ion Ratio Lower Upper
105 100
120 0.0 24.6 36.8#
91 16.2 9.6 14.4#
77 25.3 10.6 15.8#

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.682 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. -0.000 min
Lab File: VL042661.D
Acq: 20 Jun 2025 07:50

Tgt Ion:105 Resp: 27758
Ion Ratio Lower Upper
105 100
120 39.0 40.8 61.2#
91 12.8 46.8 70.2#
77 13.7 18.2 27.2#

