

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091825\
 Data File : VL042948.D
 Acq On : 18 Sep 2025 16:30
 Operator : SY/MD
 Sample : Q3111-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/19/2025
 Supervised By :Mahesh Dadoda 09/24/2025

Quant Time: Sep 19 01:27:26 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M

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

QLast Update : Thu Sep 18 02:57:46 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	171071	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	423347	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	385900	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 321561 10.661 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 106.600%

Target Compounds

					Qvalue	
10) Heptane	4.988	43	7621m	0.327	ppbv	
13) Ethanol	1.725	45	94623	98.776	ppbv	94
15) Acetone	1.839	43	1321289	62.882	ppbv	97
17) tert-Butyl alcohol	2.049	59	3913m	0.193	ppbv	
19) Isopropyl Alcohol	1.890	45	1100221	97.662	ppbv #	4
20) Methylene Chloride	2.065	84	5662	0.619	ppbv	98
25) Ethyl Acetate	2.845	43	48209m	1.074	ppbv	
26) Hexane	2.832	57	37699	1.958	ppbv	80
27) Carbon Disulfide	2.153	76	23428	0.986	ppbv	99
28) Methyl tert-Butyl Ether	2.447	73	1454	0.137	ppbv #	1
29) Chloroform	2.852	83	3298m	0.105	ppbv	
30) Cyclohexane	3.862	84	2653m	0.183	ppbv	
34) 2-Butanone	2.567	43	21632	0.788	ppbv	100
36) Benzene	3.667	78	13033	0.353	ppbv #	89
41) Tetrahydrofuran	3.072	42	5975m	0.440	ppbv	
44) 2,2,4-Trimethylpentane	4.651	57	21694	0.352	ppbv #	68
52) Tetrachloroethene	8.237	164	19222	1.688	ppbv	94
53) Toluene	6.949	91	34133	0.991	ppbv	100
58) Ethyl Benzene	9.364	91	6026	0.121	ppbv	92
59) m/p-Xylene	9.542	91	13672m	0.325	ppbv	
60) o-Xylene	9.969	91	10265m	0.246	ppbv	
61) Styrene	9.882	104	3931	0.715	ppbv #	75
79) Naphthalene	13.520	128	1578m	0.393	ppbv	
81) 1,2,4-Trichlorobenzene	13.452	180	821m	0.457	ppbv	

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

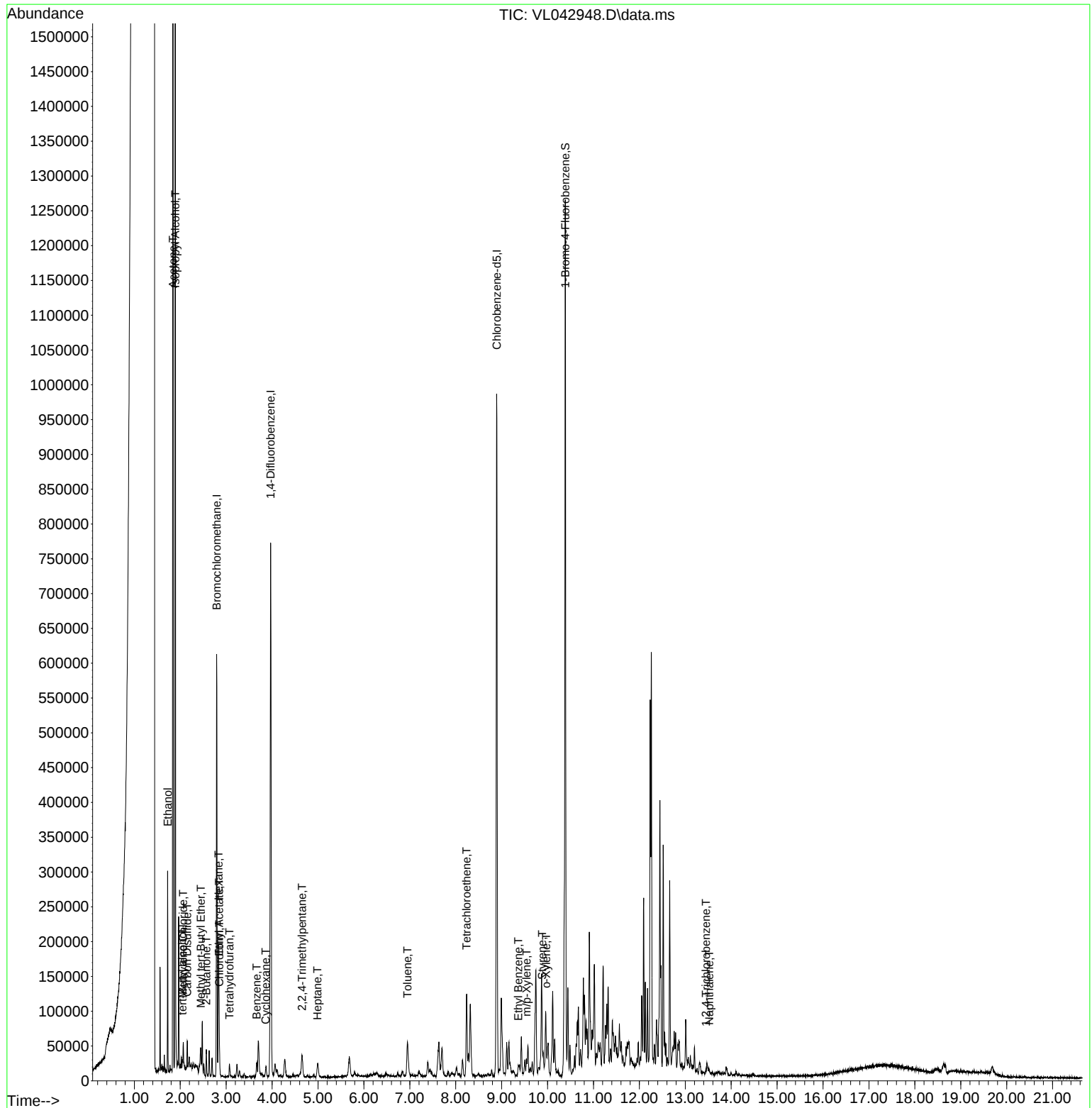
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091825\
Data File : VL042948.D
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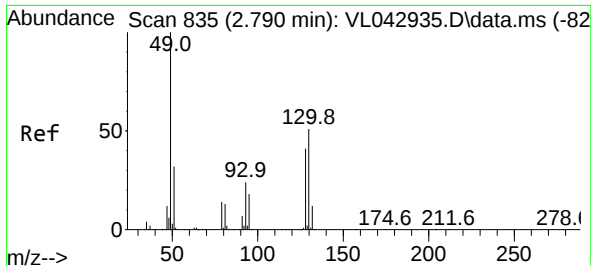
Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: Sep 19 01:27:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Sep 18 02:57:46 2025
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Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 09/19/2025
Supervised By : Mahesh Dadoda 09/24/2025





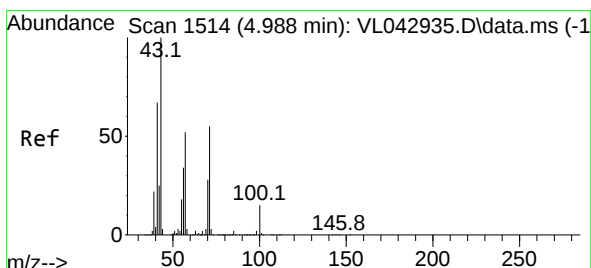
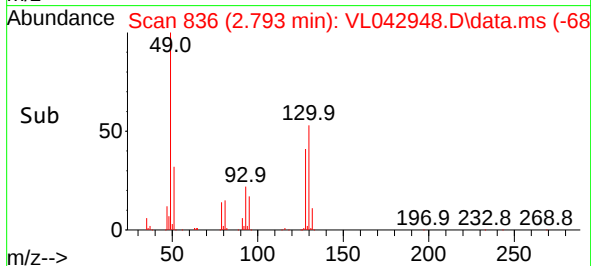
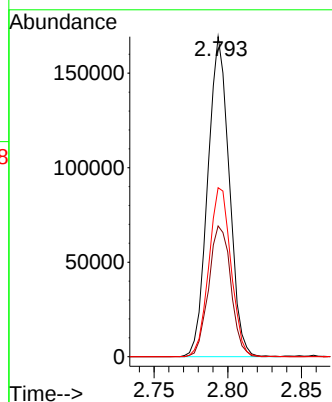
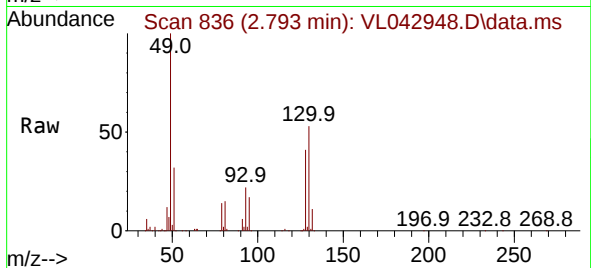
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 835
Delta R.T. 0.003 min
Lab File: VL042948.D
Acq: 18 Sep 2025 16:30

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 49 Resp: 17107
Ion Ratio Lower Upper
49 100
128 42.2 21.1 63.4
130 54.3 26.4 79.2

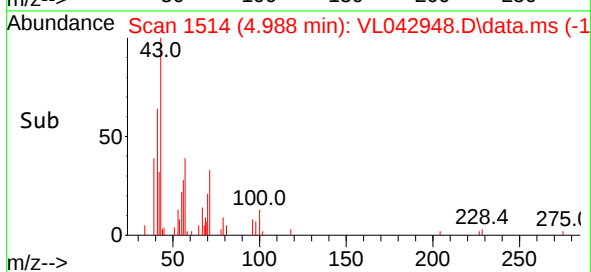
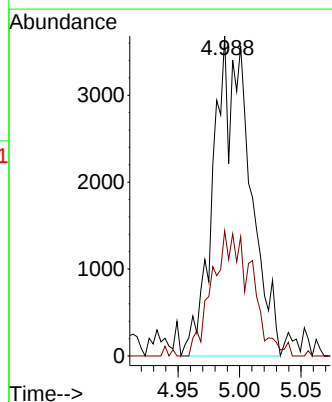
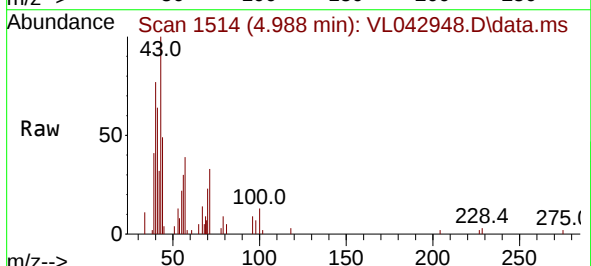
Manual Integrations
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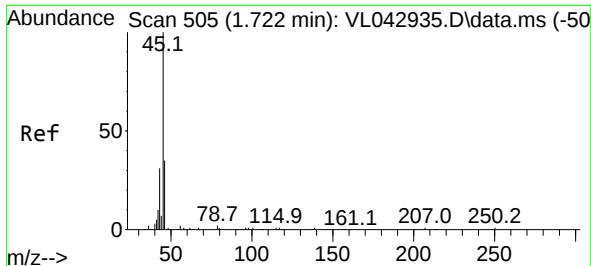
Reviewed By :Semsettin Yesilyurt 09/19/2025
Supervised By :Mahesh Dadoda 09/24/2025



#10
Heptane
Concen: 0.327 ppbv m
RT: 4.988 min Scan# 1514
Delta R.T. 0.000 min
Lab File: VL042948.D
Acq: 18 Sep 2025 16:30

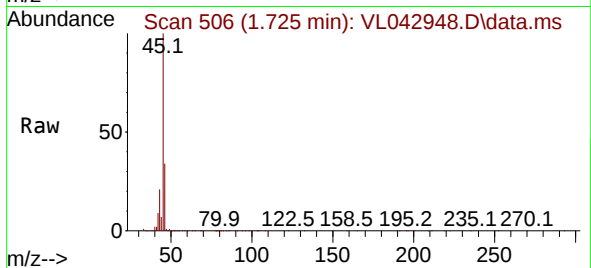
Tgt Ion: 43 Resp: 7621
Ion Ratio Lower Upper
43 100
57 42.2 39.8 59.8





#13
Ethanol
Concen: 98.776 ppbv
RT: 1.725 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042948.D
Acq: 18 Sep 2025 16:30

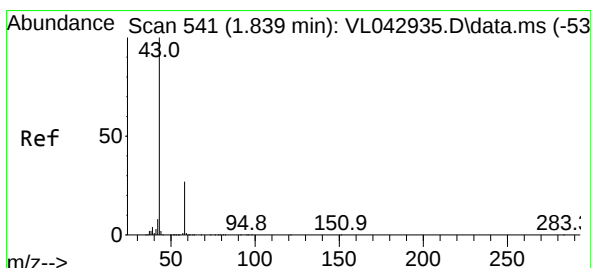
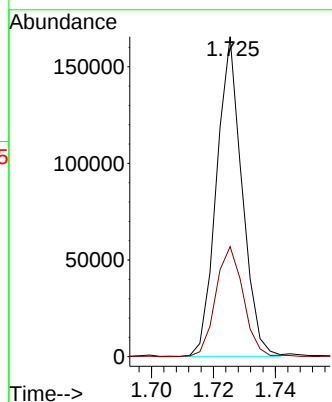
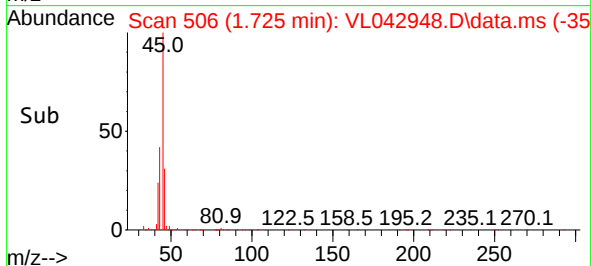
Instrument :
MSVOA_L
ClientSampleId :
SV1



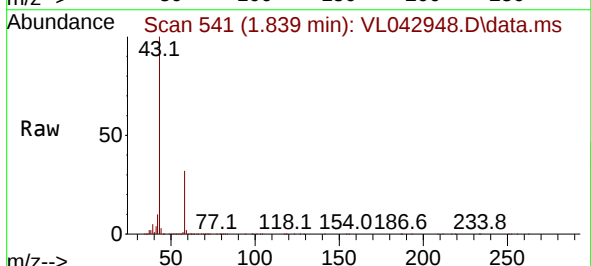
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Ion Ratio Lower Upper
45 100
46 37.8 16.5 66.1

Manual Integrations
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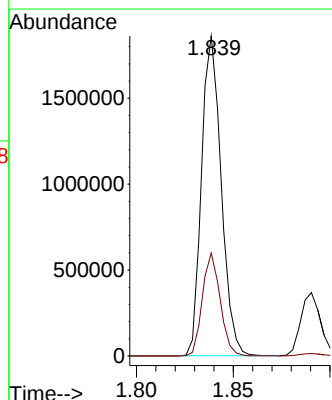
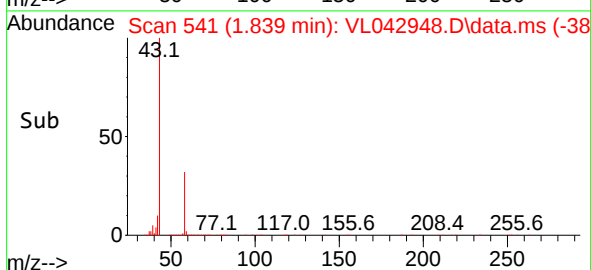
Reviewed By :Semsettin Yesilyurt 09/19/2025
Supervised By :Mahesh Dadoda 09/24/2025

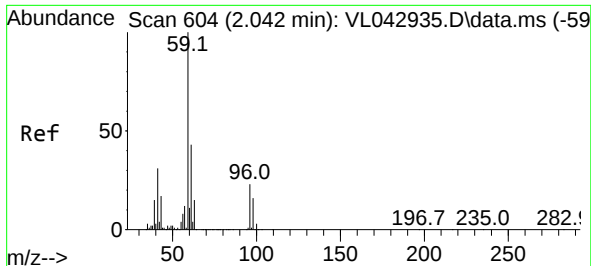


#15
Acetone
Concen: 62.882 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.000 min
Lab File: VL042948.D
Acq: 18 Sep 2025 16:30



Tgt Ion: 43 Resp: 1321289
Ion Ratio Lower Upper
43 100
58 29.1 22.2 33.2





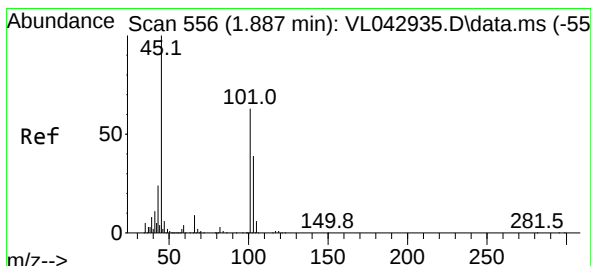
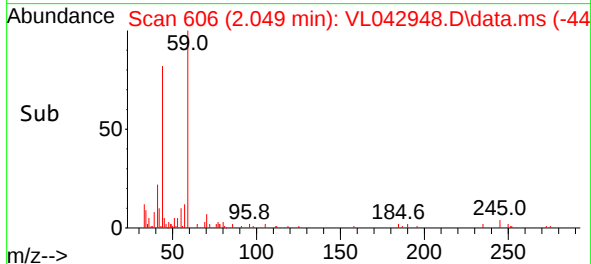
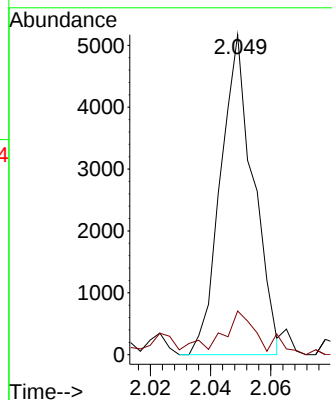
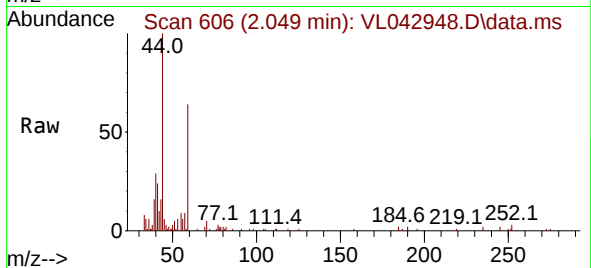
#17
tert-Butyl alcohol
Concen: 0.193 ppbv m
RT: 2.049 min Scan# 604
Delta R.T. 0.007 min
Lab File: VL042948.D
Acq: 18 Sep 2025 16:30

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 59 Resp: 391
Ion Ratio Lower Upper
59 100
57 104.1 9.0 13.6

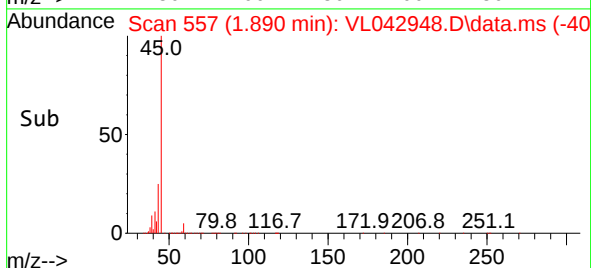
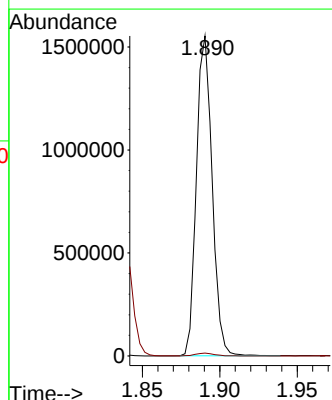
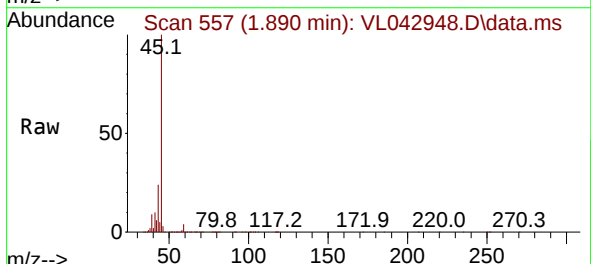
Manual Integrations
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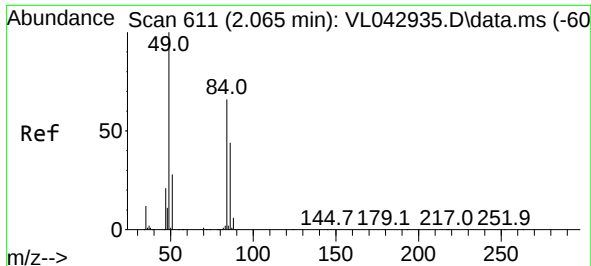
Reviewed By :Semsettin Yesilyurt 09/19/2025
Supervised By :Mahesh Dadoda 09/24/2025



#19
Isopropyl Alcohol
Concen: 97.662 ppbv
RT: 1.890 min Scan# 557
Delta R.T. 0.003 min
Lab File: VL042948.D
Acq: 18 Sep 2025 16:30

Tgt Ion: 45 Resp: 1100221
Ion Ratio Lower Upper
45 100
58 34.9 2.0 3.0





#20

Methylene Chloride

Concen: 0.619 ppbv

RT: 2.065 min Scan# 611

Delta R.T. 0.000 min

Lab File: VL042948.D

Acq: 18 Sep 2025 16:30

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 84 Resp: 566

Ion Ratio Lower Upper

84 100

49 149.4 121.8 182.6

51 44.9 35.6 53.4

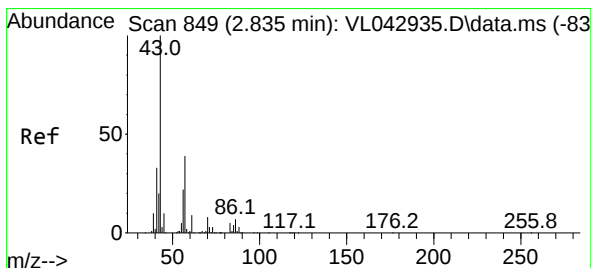
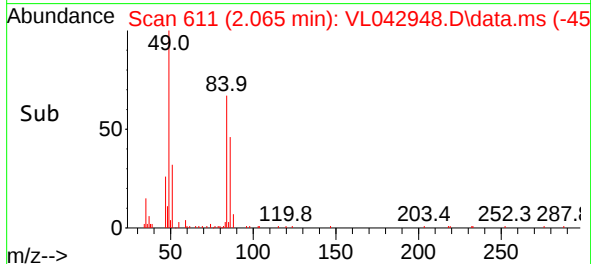
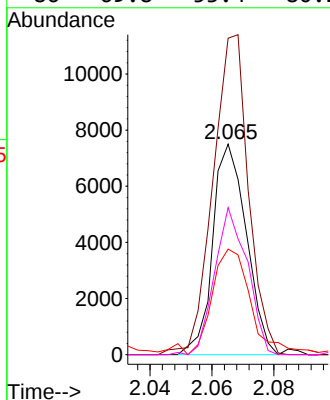
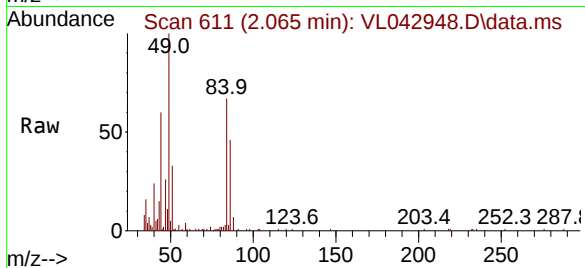
86 69.8 53.4 80.2

Manual Integrations

APPROVED

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Supervised By :Mahesh Dadoda 09/24/2025



#25

Ethyl Acetate

Concen: 1.074 ppbv m

RT: 2.845 min Scan# 852

Delta R.T. 0.010 min

Lab File: VL042948.D

Acq: 18 Sep 2025 16:30

Tgt Ion: 43 Resp: 48209

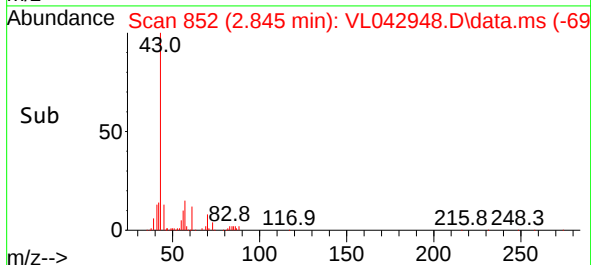
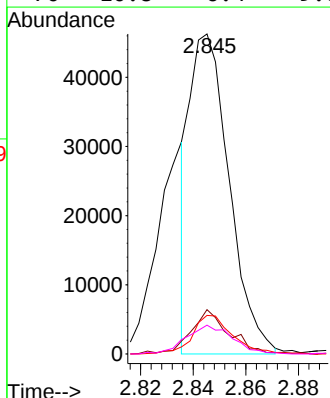
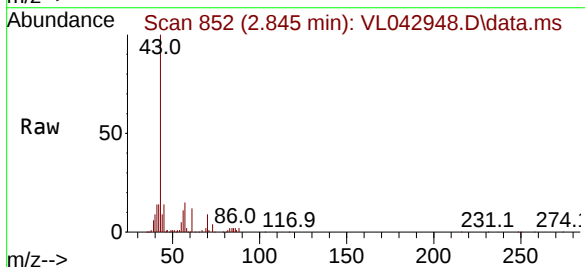
Ion Ratio Lower Upper

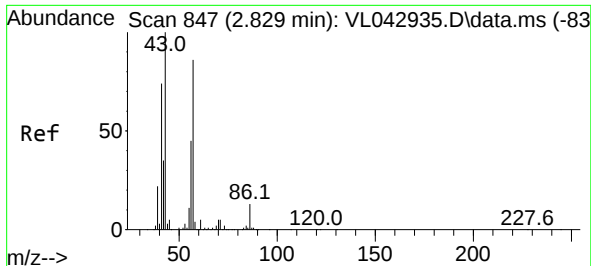
43 100

45 14.3 7.8 11.8#

61 12.4 7.2 10.8#

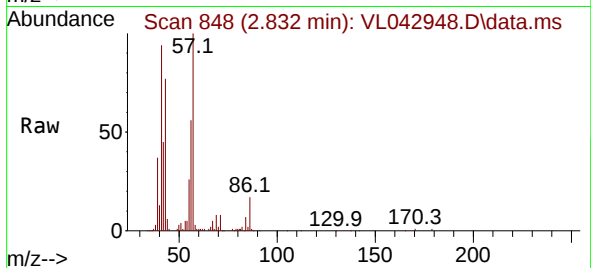
70 10.8 6.4 9.6#





#26
Hexane
Concen: 1.958 ppbv
RT: 2.832 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042948.D
Acq: 18 Sep 2025 16:30

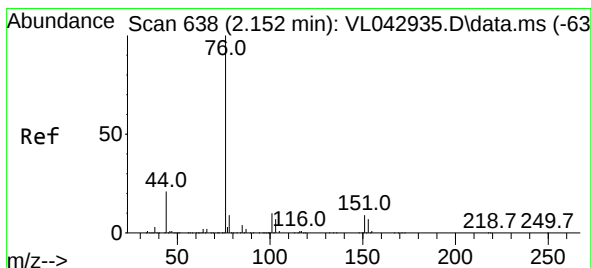
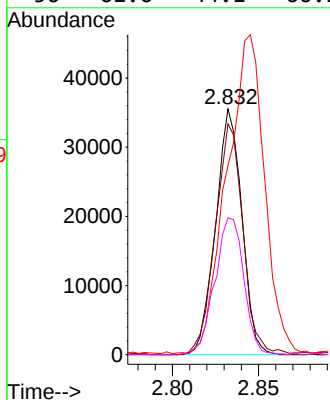
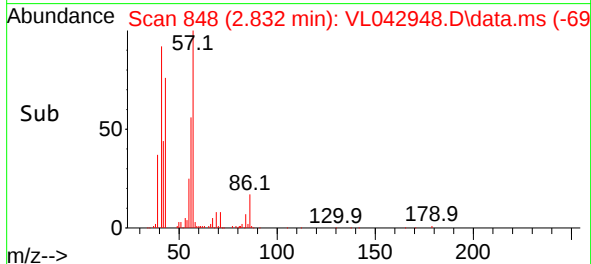
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 57 Resp: 37699
Ion Ratio Lower Upper
57 100
41 100.1 71.3 106.9
43 188.3 183.9 275.9
56 61.6 44.1 66.1

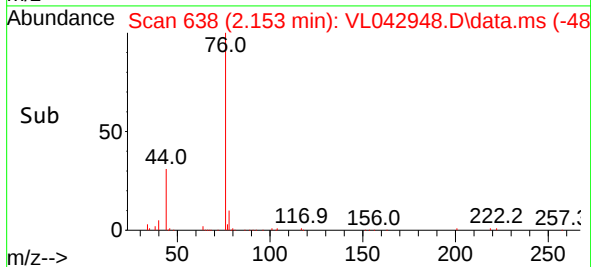
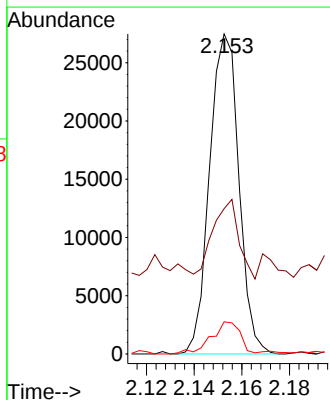
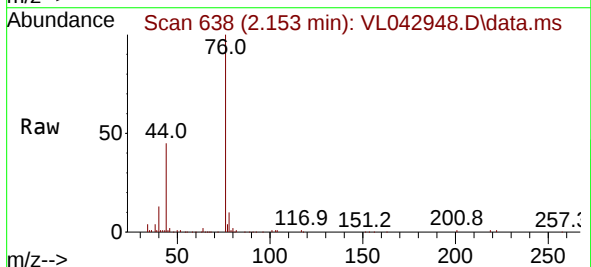
Manual Integrations
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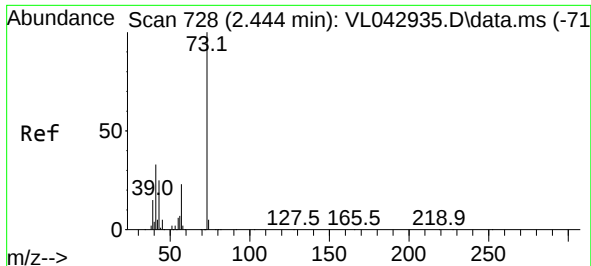
Reviewed By :Semsettin Yesilyurt 09/19/2025
Supervised By :Mahesh Dadoda 09/24/2025



#27
Carbon Disulfide
Concen: 0.986 ppbv
RT: 2.153 min Scan# 638
Delta R.T. 0.000 min
Lab File: VL042948.D
Acq: 18 Sep 2025 16:30

Tgt Ion: 76 Resp: 23428
Ion Ratio Lower Upper
76 100
44 19.5 15.4 23.0
78 11.3 9.1 13.7





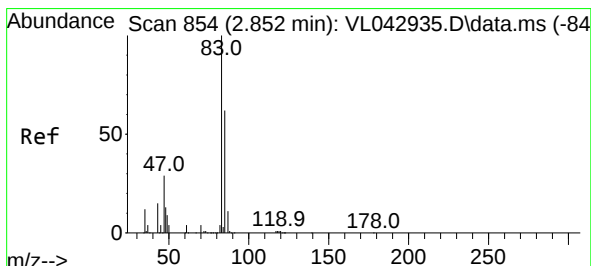
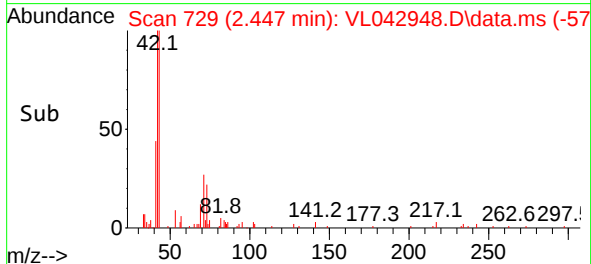
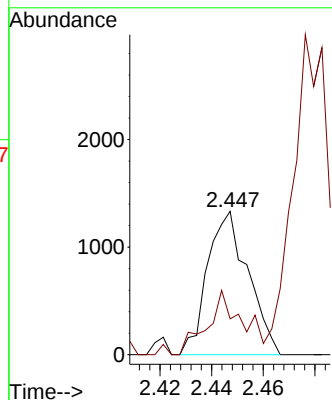
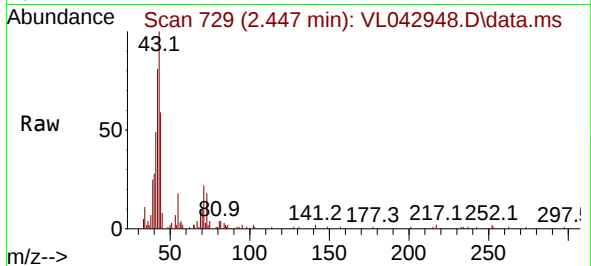
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Methyl tert-Butyl Ether
Concen: 0.137 ppbv
RT: 2.447 min Scan# 728
Delta R.T. 0.003 min
Lab File: VL042948.D
Acq: 18 Sep 2025 16:30

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 73 Resp: 1454
Ion Ratio Lower Upper
73 100
57 249.9 18.6 28.0

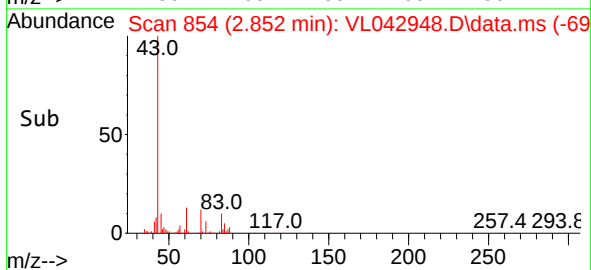
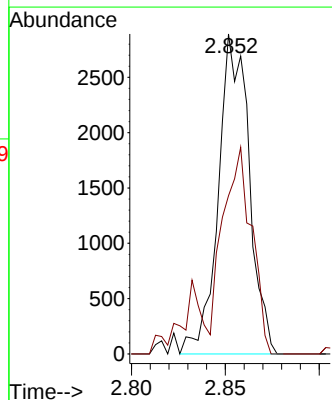
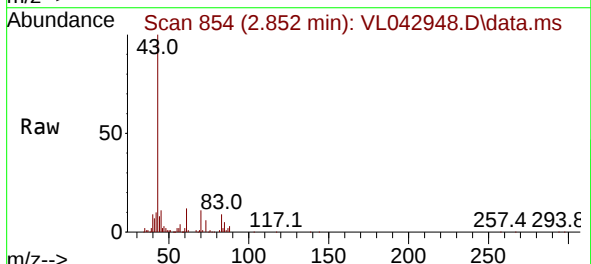
Manual Integrations
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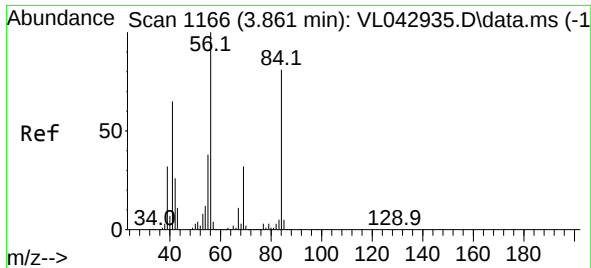
Reviewed By :Semsettin Yesilyurt 09/19/2025
Supervised By :Mahesh Dadoda 09/24/2025



#29
Chloroform
Concen: 0.105 ppbv m
RT: 2.852 min Scan# 854
Delta R.T. 0.000 min
Lab File: VL042948.D
Acq: 18 Sep 2025 16:30

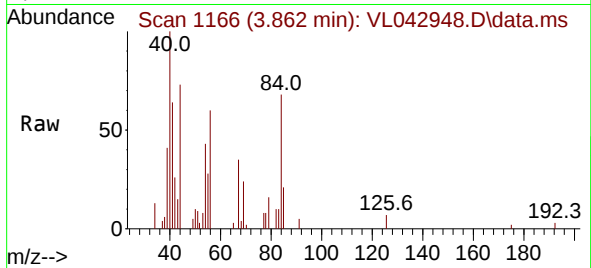
Tgt Ion: 83 Resp: 3298
Ion Ratio Lower Upper
83 100
85 49.4 49.7 74.5





#30
Cyclohexane
Concen: 0.183 ppbv m
RT: 3.862 min Scan# 1166
Delta R.T. 0.000 min
Lab File: VL042948.D
Acq: 18 Sep 2025 16:30

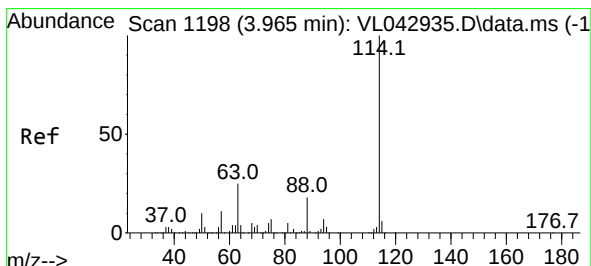
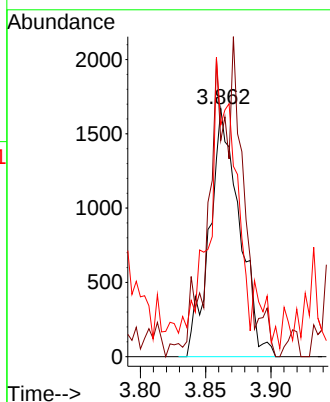
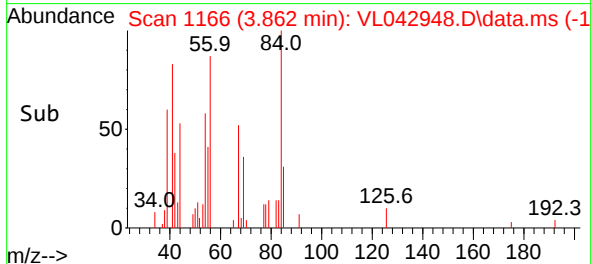
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 84 Resp: 265
Ion Ratio Lower Upper
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56 0.0 100.6 150.8
41 113.5 65.4 98.0

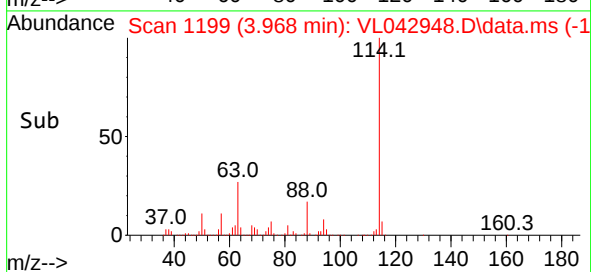
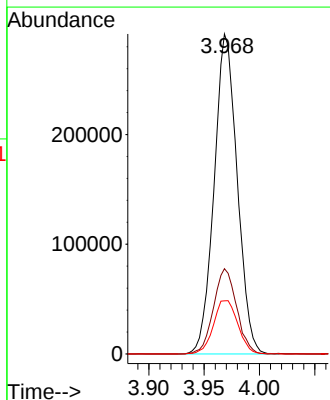
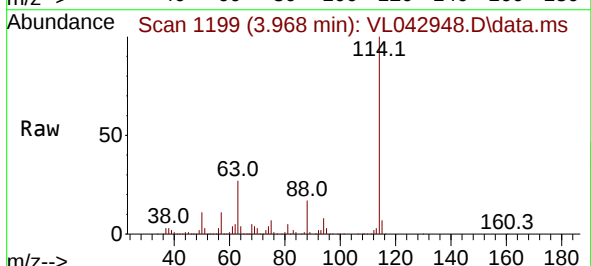
Manual Integrations
APPROVED

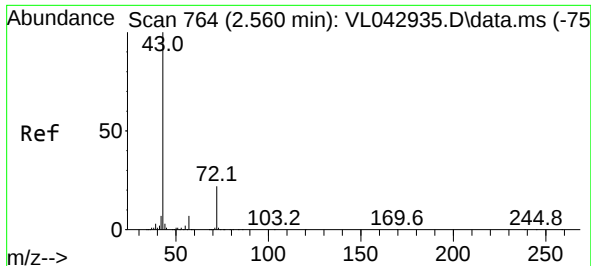
Reviewed By :Semsettin Yesilyurt 09/19/2025
Supervised By :Mahesh Dadoda 09/24/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 1199
Delta R.T. 0.003 min
Lab File: VL042948.D
Acq: 18 Sep 2025 16:30

Tgt Ion:114 Resp: 423347
Ion Ratio Lower Upper
114 100
63 26.8 21.1 31.7
88 17.7 14.6 22.0





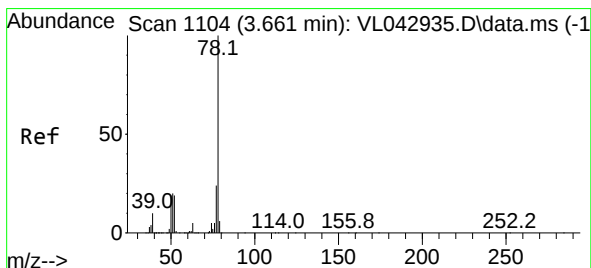
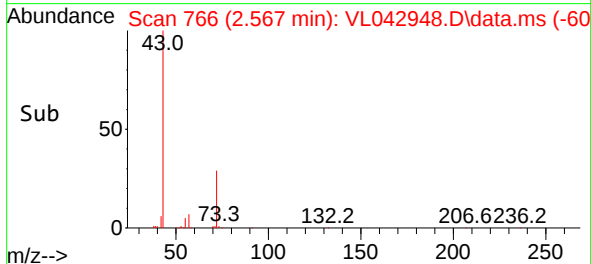
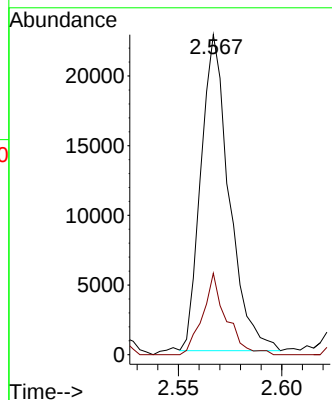
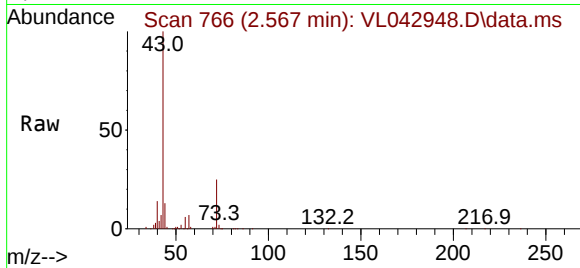
#34
2-Butanone
Concen: 0.788 ppbv
RT: 2.567 min Scan# 70
Delta R.T. 0.007 min
Lab File: VL042948.D
Acq: 18 Sep 2025 16:30

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 2163
Ion Ratio Lower Upper
43 100
72 21.4 17.2 25.8

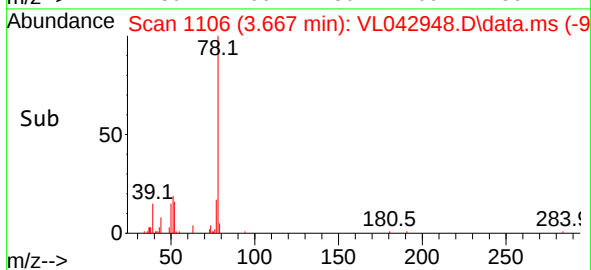
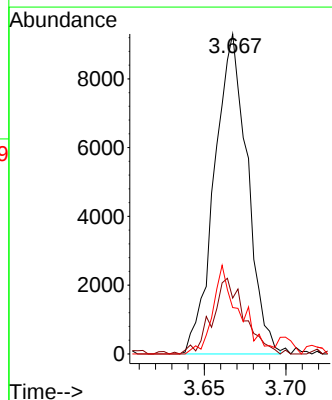
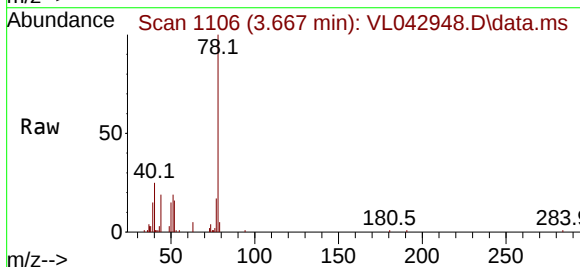
Manual Integrations
APPROVED

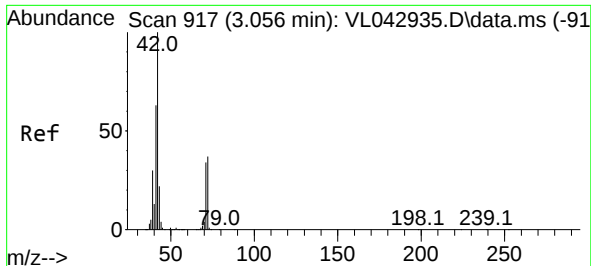
Reviewed By :Semsettin Yesilyurt 09/19/2025
Supervised By :Mahesh Dadoda 09/24/2025



#36
Benzene
Concen: 0.353 ppbv
RT: 3.667 min Scan# 1106
Delta R.T. 0.007 min
Lab File: VL042948.D
Acq: 18 Sep 2025 16:30

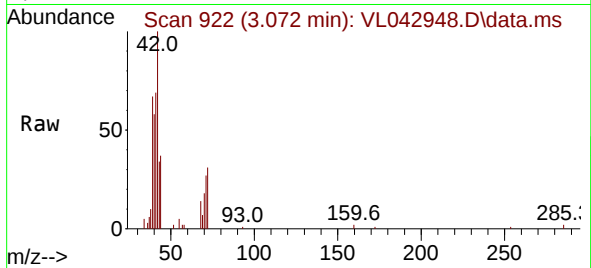
Tgt Ion: 78 Resp: 13033
Ion Ratio Lower Upper
78 100
77 17.4 19.2 28.8#
50 14.5 14.8 22.2#





#41
Tetrahydrofuran
Concen: 0.440 ppbv m
RT: 3.072 min Scan# 917
Delta R.T. 0.016 min
Lab File: VL042948.D
Acq: 18 Sep 2025 16:30

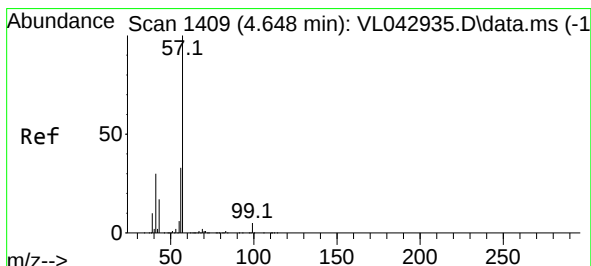
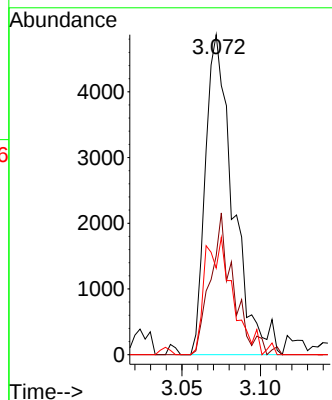
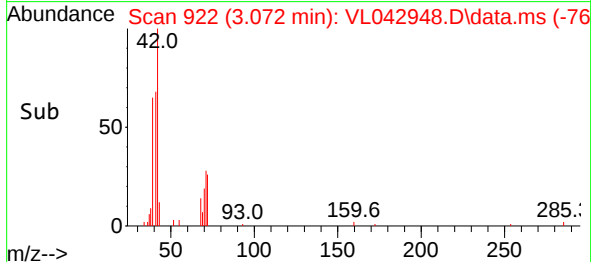
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 42 Resp: 5974
Ion Ratio Lower Upper
42 100
72 37.1 30.4 45.6
71 38.0 28.3 42.5

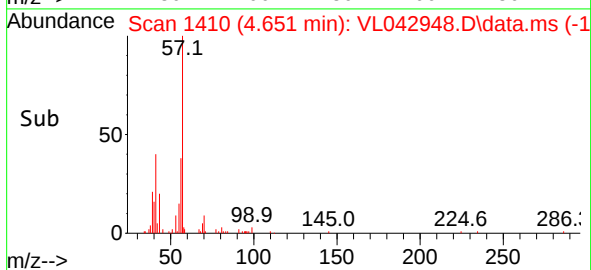
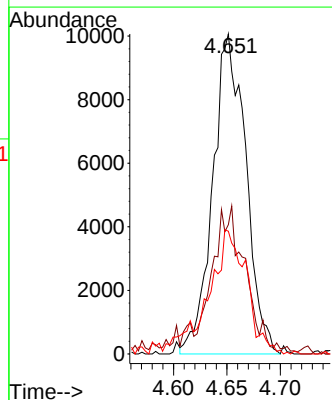
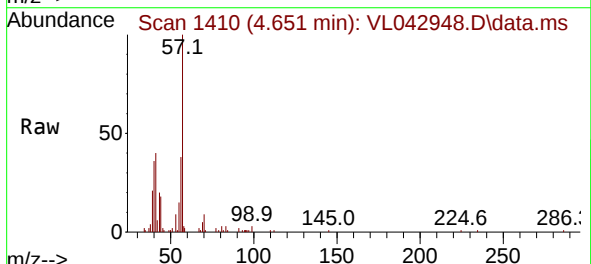
Manual Integrations
APPROVED

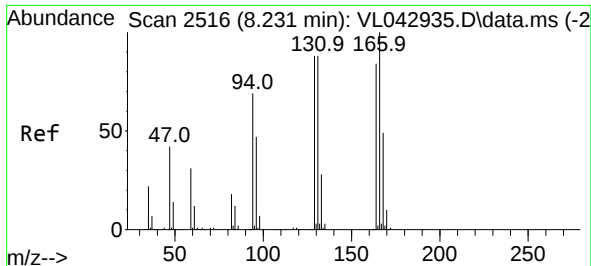
Reviewed By :Semsettin Yesilyurt 09/19/2025
Supervised By :Mahesh Dadoda 09/24/2025



#44
2,2,4-Trimethylpentane
Concen: 0.352 ppbv
RT: 4.651 min Scan# 1410
Delta R.T. 0.003 min
Lab File: VL042948.D
Acq: 18 Sep 2025 16:30

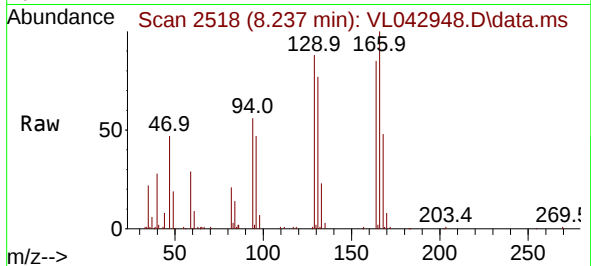
Tgt Ion: 57 Resp: 21694
Ion Ratio Lower Upper
57 100
41 53.7 25.8 38.6#
56 47.1 26.2 39.4#





#52
Tetrachloroethene
Concen: 1.688 ppbv
RT: 8.237 min Scan# 2122
Delta R.T. 0.007 min
Lab File: VL042948.D
Acq: 18 Sep 2025 16:30

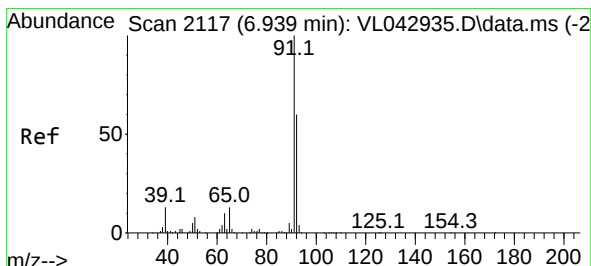
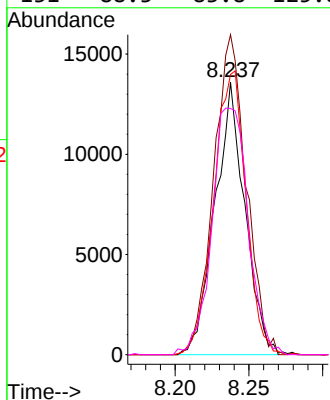
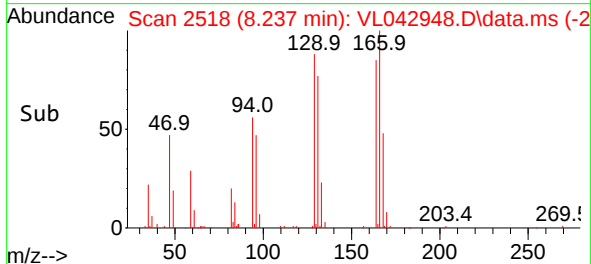
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion:164 Resp: 1922
Ion Ratio Lower Upper
164 100
166 117.5 95.4 143.0
129 102.4 84.0 126.0
131 88.3 83.8 125.8

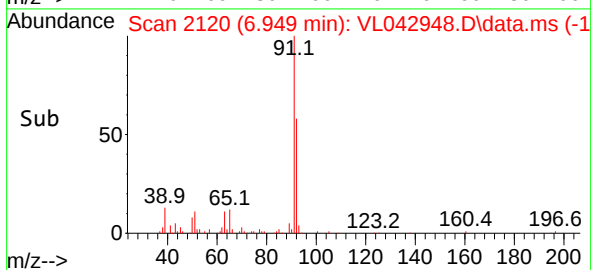
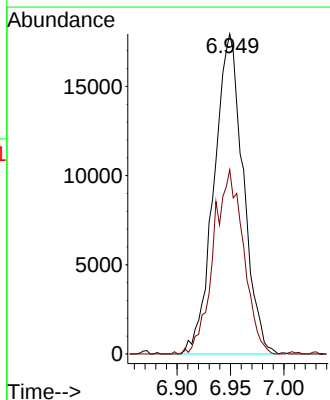
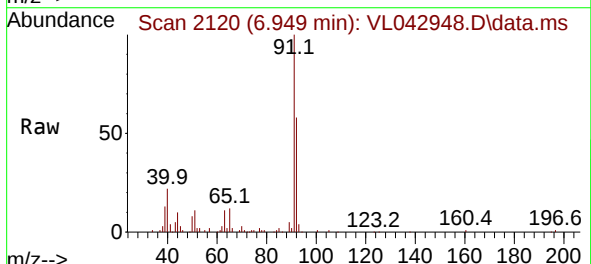
Manual Integrations
APPROVED

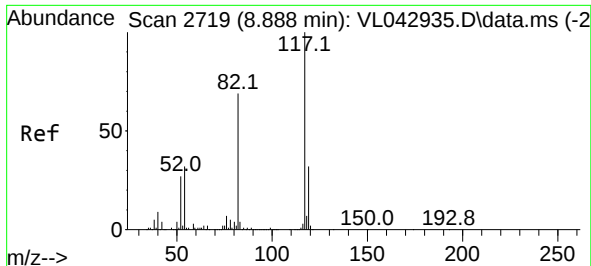
Reviewed By :Semsettin Yesilyurt 09/19/2025
Supervised By :Mahesh Dadoda 09/24/2025



#53
Toluene
Concen: 0.991 ppbv
RT: 6.949 min Scan# 2120
Delta R.T. 0.010 min
Lab File: VL042948.D
Acq: 18 Sep 2025 16:30

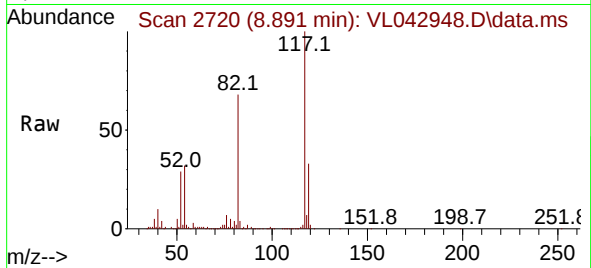
Tgt Ion: 91 Resp: 34133
Ion Ratio Lower Upper
91 100
92 59.2 47.4 71.2





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2719
Delta R.T. 0.003 min
Lab File: VL042948.D
Acq: 18 Sep 2025 16:30

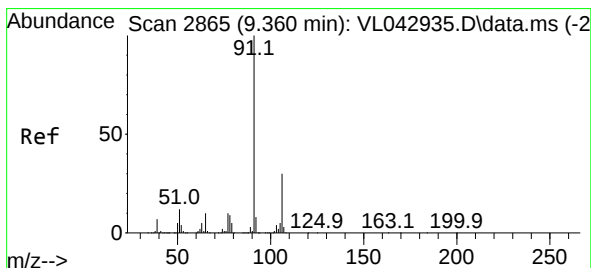
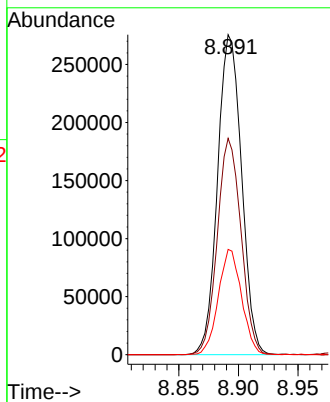
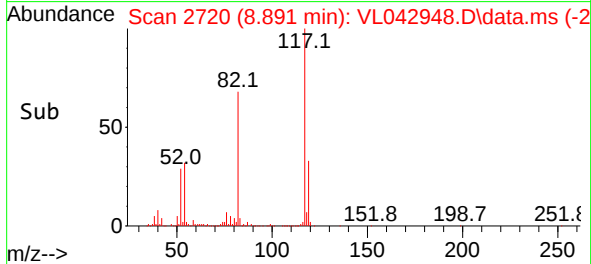
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion:117 Resp: 385900
Ion Ratio Lower Upper
117 100
82 66.8 56.1 84.1
119 31.9 25.8 38.8

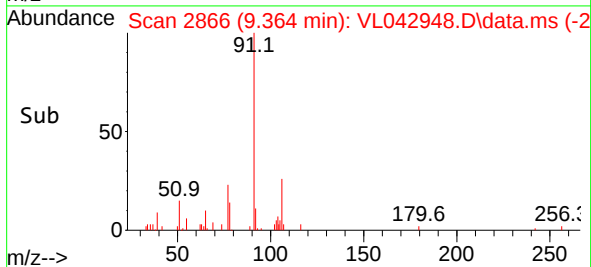
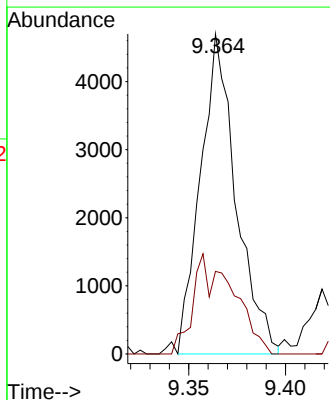
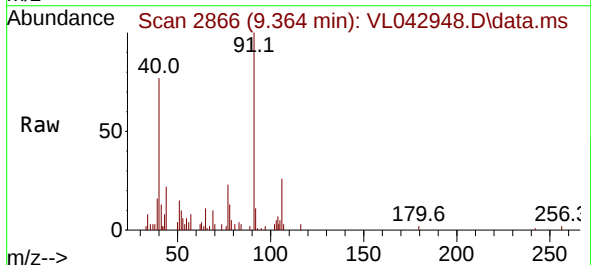
Manual Integrations
APPROVED

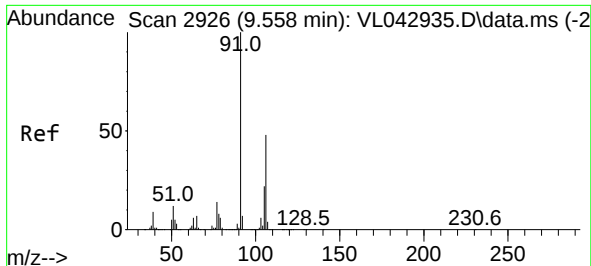
Reviewed By :Semsettin Yesilyurt 09/19/2025
Supervised By :Mahesh Dadoda 09/24/2025



#58
Ethyl Benzene
Concen: 0.121 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.003 min
Lab File: VL042948.D
Acq: 18 Sep 2025 16:30

Tgt Ion: 91 Resp: 6026
Ion Ratio Lower Upper
91 100
106 25.8 24.2 36.4





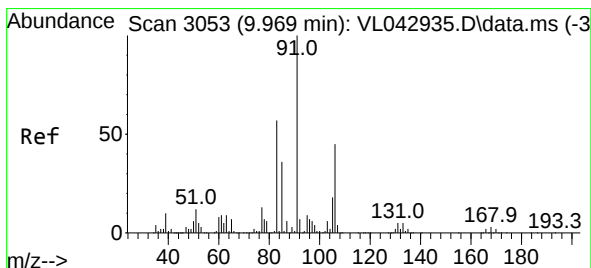
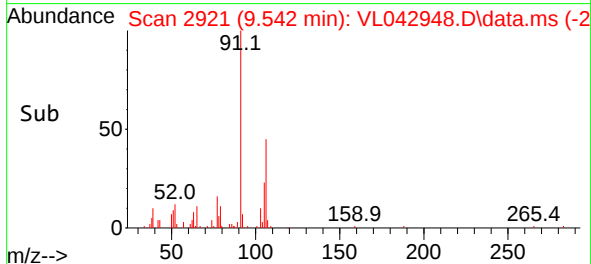
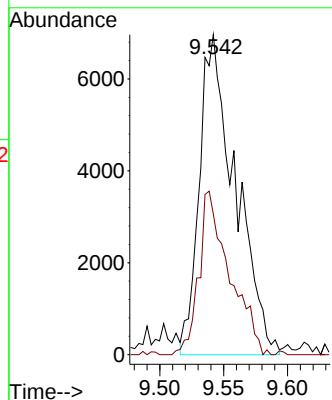
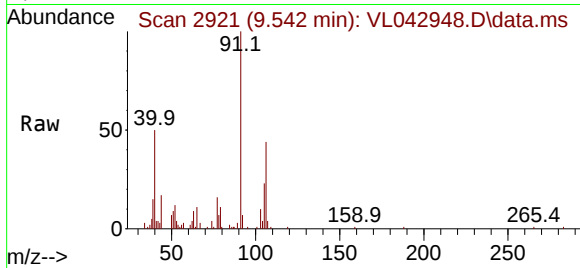
#59
m/p-Xylene
Concen: 0.325 ppbv m
RT: 9.542 min Scan# 2926
Delta R.T. -0.016 min
Lab File: VL042948.D
Acq: 18 Sep 2025 16:30

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 13672
Ion Ratio Lower Upper
91 100
106 0.0 37.4 56.0

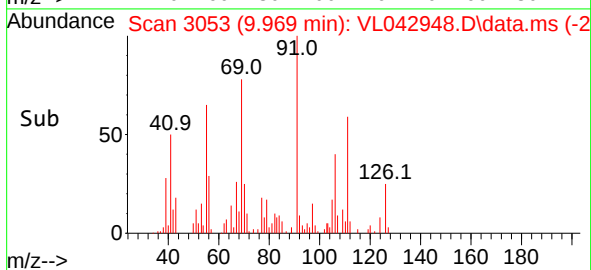
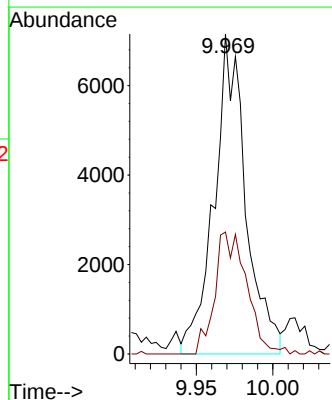
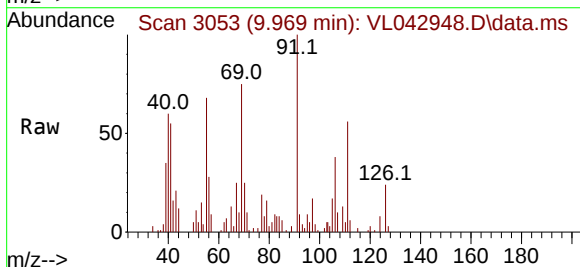
Manual Integrations
APPROVED

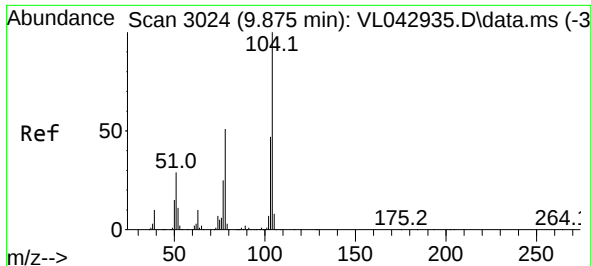
Reviewed By :Semsettin Yesilyurt 09/19/2025
Supervised By :Mahesh Dadoda 09/24/2025



#60
o-Xylene
Concen: 0.246 ppbv m
RT: 9.969 min Scan# 3053
Delta R.T. 0.000 min
Lab File: VL042948.D
Acq: 18 Sep 2025 16:30

Tgt Ion: 91 Resp: 10265
Ion Ratio Lower Upper
91 100
106 58.0 22.1 66.5





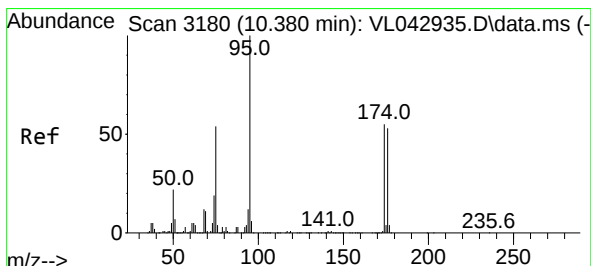
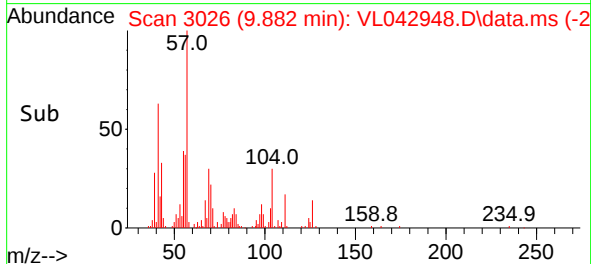
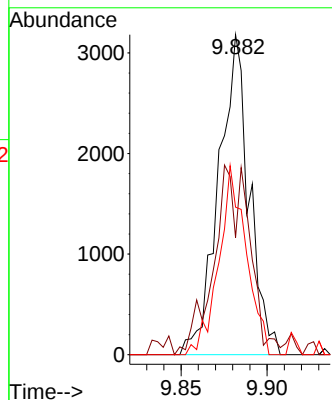
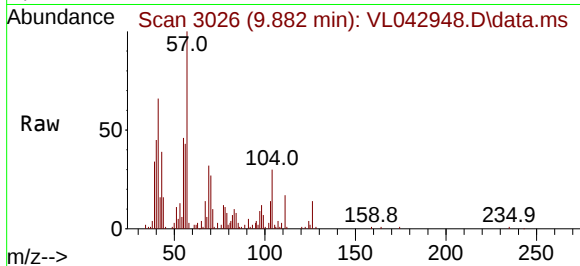
#61
Styrene
Concen: 0.715 ppbv
RT: 9.882 min Scan# 3024
Delta R.T. 0.007 min
Lab File: VL042948.D
Acq: 18 Sep 2025 16:30

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 104 Resp: 393
Ion Ratio Lower Upper
104 100
78 74.9 40.2 60.2
103 55.4 36.8 55.2

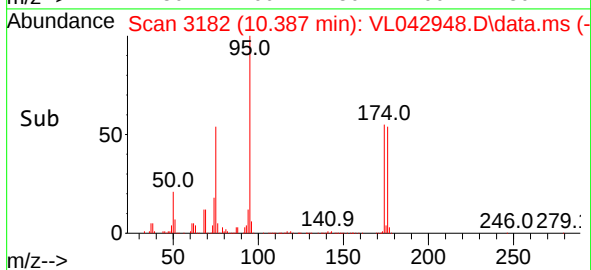
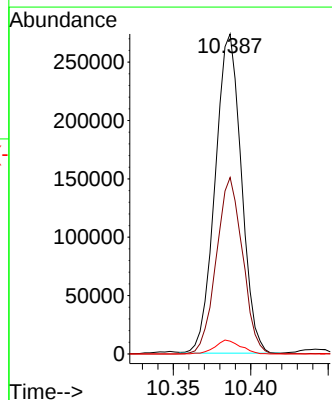
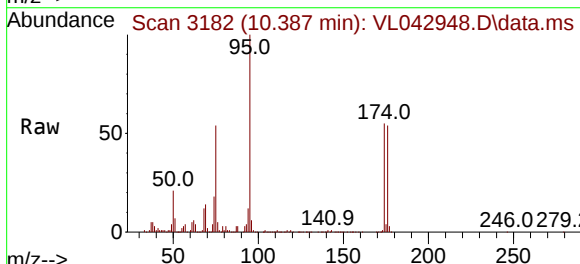
Manual Integrations
APPROVED

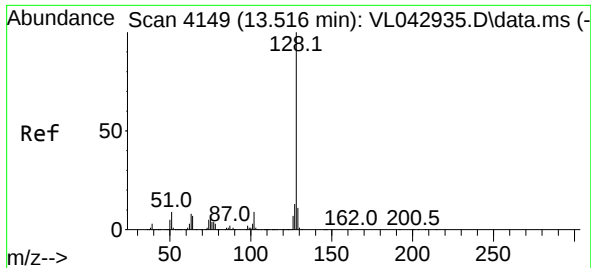
Reviewed By :Semsettin Yesilyurt 09/19/2025
Supervised By :Mahesh Dadoda 09/24/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.661 ppbv
RT: 10.387 min Scan# 3182
Delta R.T. 0.007 min
Lab File: VL042948.D
Acq: 18 Sep 2025 16:30

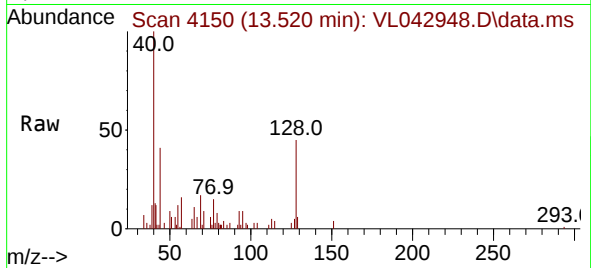
Tgt Ion: 95 Resp: 321561
Ion Ratio Lower Upper
95 100
174 55.4 44.9 67.3
175 4.3 3.3 4.9





#79
Naphthalene
Concen: 0.393 ppbv m
RT: 13.520 min Scan# 4149
Delta R.T. 0.004 min
Lab File: VL042948.D
Acq: 18 Sep 2025 16:30

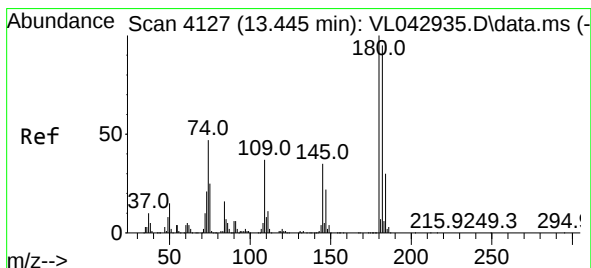
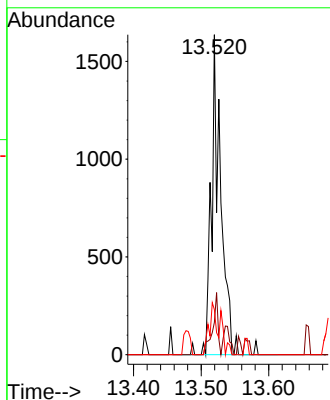
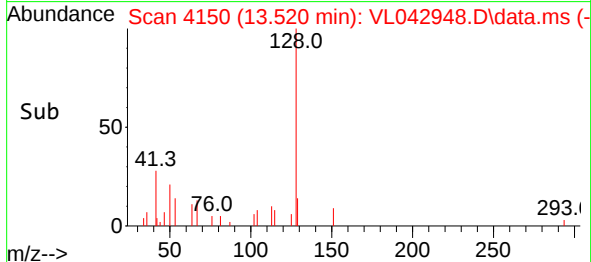
Instrument :
MSVOA_L
ClientSampleId :
SV1



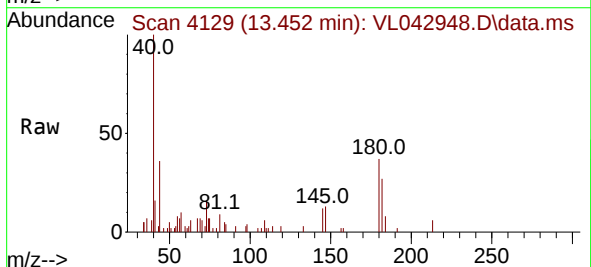
Tgt Ion:128 Resp: 1578
Ion Ratio Lower Upper
128 100
127 10.1 10.3 15.5
129 14.1 8.7 13.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/19/2025
Supervised By :Mahesh Dadoda 09/24/2025



#81
1,2,4-Trichlorobenzene
Concen: 0.457 ppbv m
RT: 13.452 min Scan# 4129
Delta R.T. 0.007 min
Lab File: VL042948.D
Acq: 18 Sep 2025 16:30



Tgt Ion:180 Resp: 821
Ion Ratio Lower Upper
180 100
182 124.5 75.5 113.3#
184 30.5 24.6 37.0

