

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112025\
 Data File : VL043273.D
 Acq On : 20 Nov 2025 19:44
 Operator : SY/MD
 Sample : Q3698-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2025
 Supervised By :Mahesh Dadoda 11/21/2025

Quant Time: Nov 21 00:43:13 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

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

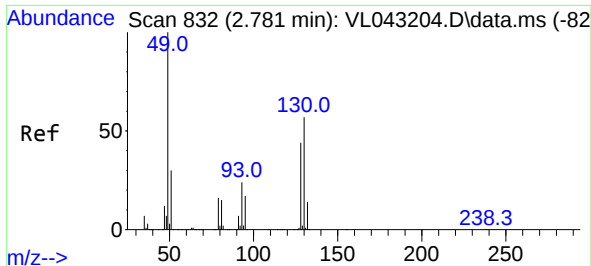
Internal Standards						
1) Bromochloromethane	2.784	49	105164	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	277383	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	223095	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	166954	10.209	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	2240	0.151	ppbv #	82
4) Chloromethane	1.531	50	716	0.129	ppbv	98
9) Propene	1.489	41	112131	18.102	ppbv #	11
10) Heptane	4.981	43	3376m	0.183	ppbv	
13) Ethanol	1.722	45	8260	3.792	ppbv #	38
15) Acetone	1.832	43	1065814	72.947	ppbv	98
18) 1,1-Dichloroethene	2.033	96	2244	0.430	ppbv	91
20) Methylene Chloride	2.062	84	9361	1.508	ppbv	93
26) Hexane	2.826	57	28098	2.034	ppbv #	45
34) 2-Butanone	2.560	43	4908	0.251	ppbv	99
36) Benzene	3.658	78	4746	0.179	ppbv #	93
53) Toluene	6.923	91	19622m	0.624	ppbv	
58) Ethyl Benzene	9.348	91	91292	2.126	ppbv	98
59) m/p-Xylene	9.526	91	367723	10.681	ppbv	100
60) o-Xylene	9.956	91	110225	3.205	ppbv	98

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

Manual Integrations

Quant Time: Nov 21 00:43:13 2025
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
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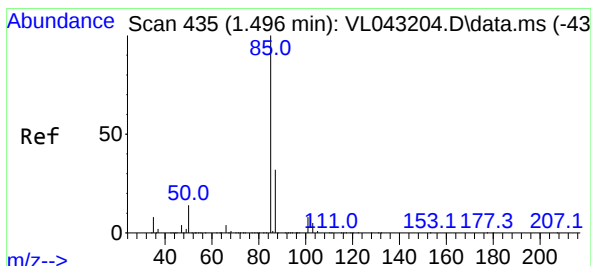
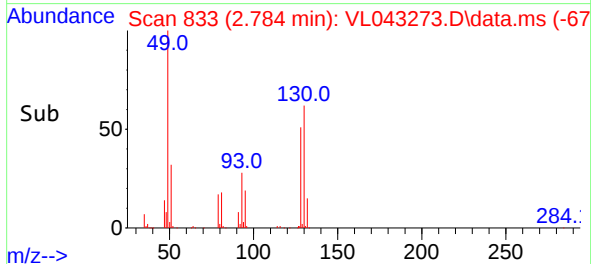
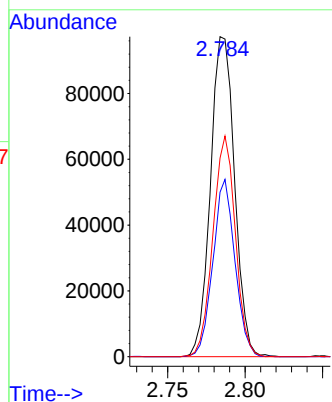
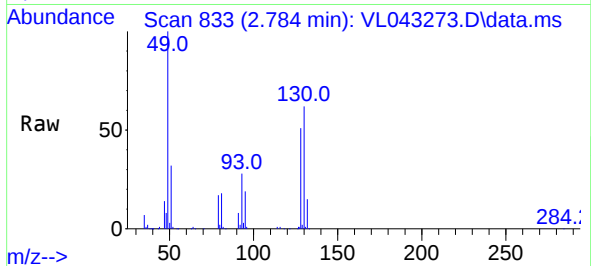
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL043273.D
Acq: 20 Nov 2025 19:44

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 49 Resp: 105164
Ion Ratio Lower Upper
49 100
128 50.7 23.0 69.0
130 64.4 29.9 89.7

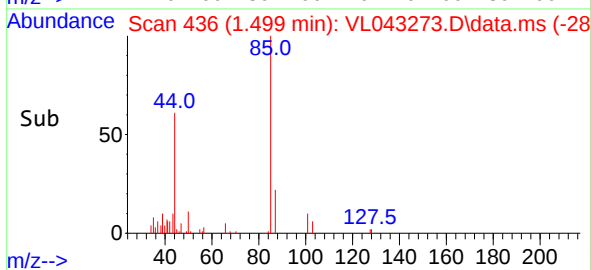
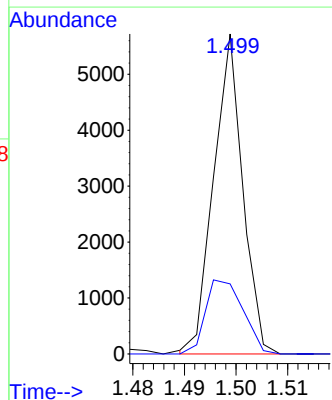
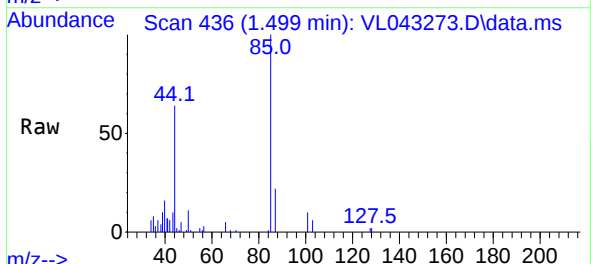
Manual Integrations
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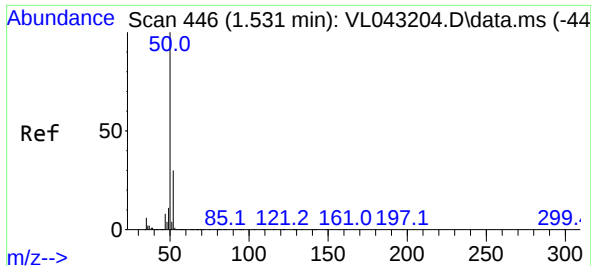
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#2
Dichlorodifluoromethane
Concen: 0.151 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043273.D
Acq: 20 Nov 2025 19:44

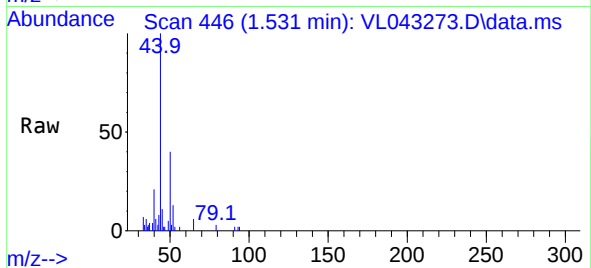
Tgt Ion: 85 Resp: 2240
Ion Ratio Lower Upper
85 100
87 21.9 25.4 38.2#





#4
Chloromethane
Concen: 0.129 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043273.D
Acq: 20 Nov 2025 19:44

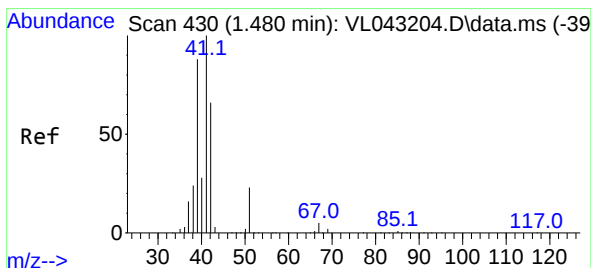
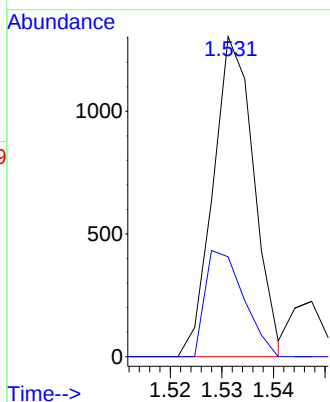
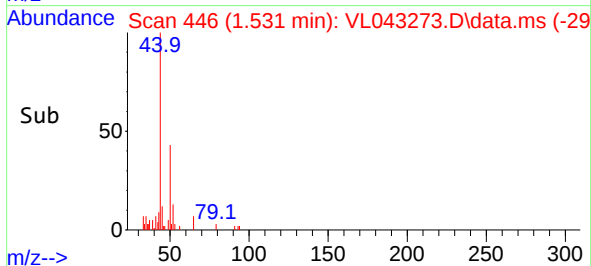
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 50 Resp: 710
Ion Ratio Lower Upper
50 100
52 31.2 24.1 36.1

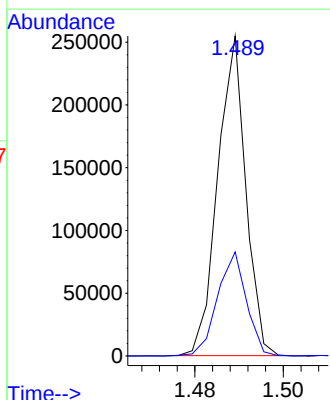
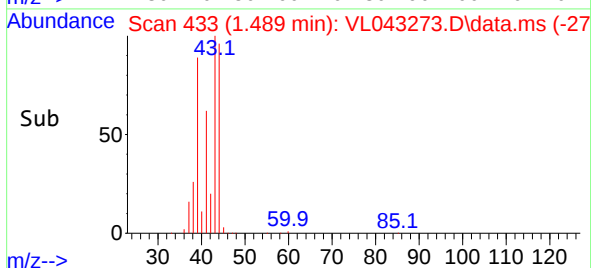
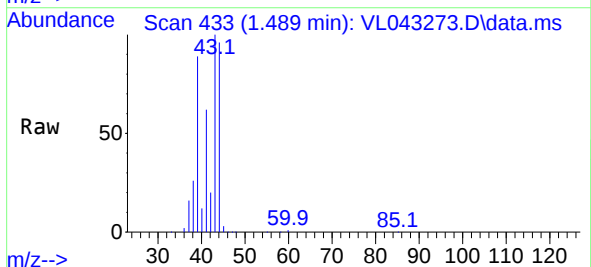
Manual Integrations
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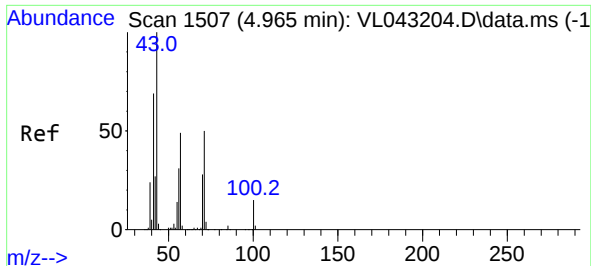
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#9
Propene
Concen: 18.102 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.009 min
Lab File: VL043273.D
Acq: 20 Nov 2025 19:44

Tgt Ion: 41 Resp: 112131
Ion Ratio Lower Upper
41 100
42 33.9 3.7 5.5#





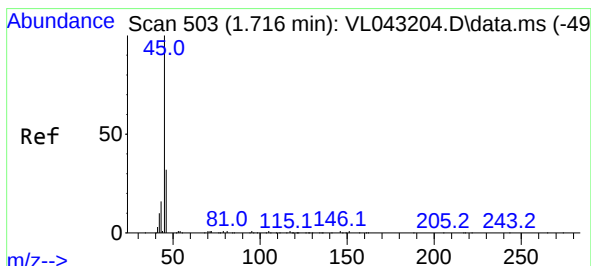
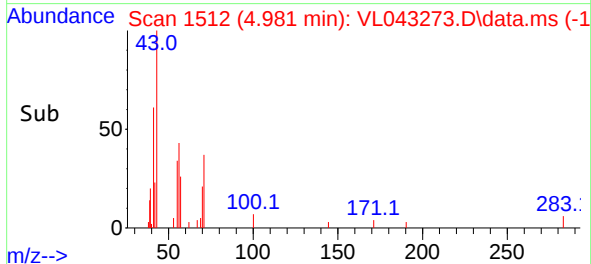
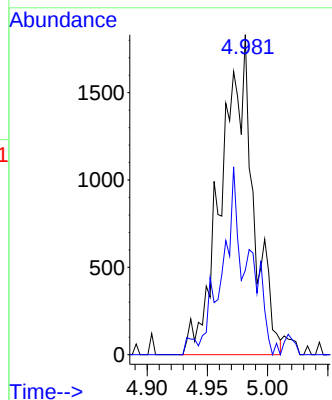
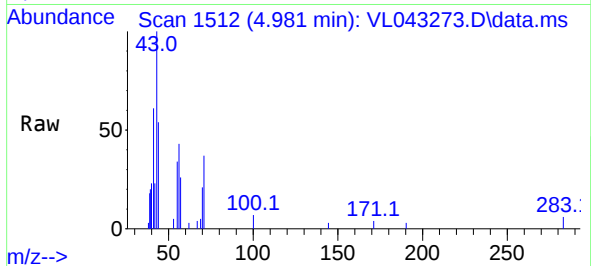
#10
Heptane
Concen: 0.183 ppbv m
RT: 4.981 min Scan# 11
Delta R.T. 0.016 min
Lab File: VL043273.D
Acq: 20 Nov 2025 19:44

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 43 Resp: 3370
Ion Ratio Lower Upper
43 100
57 50.5 39.7 59.5

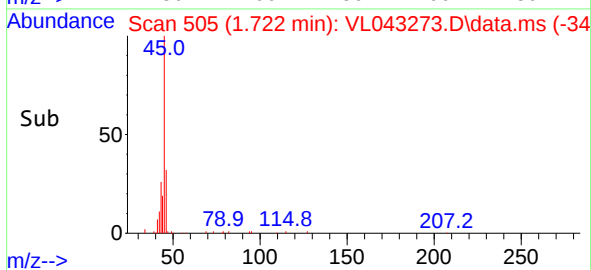
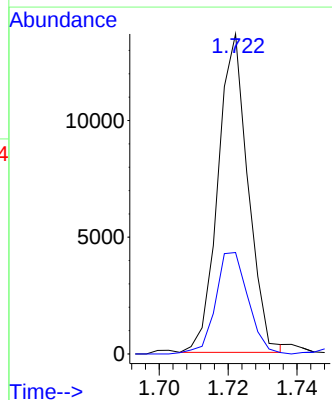
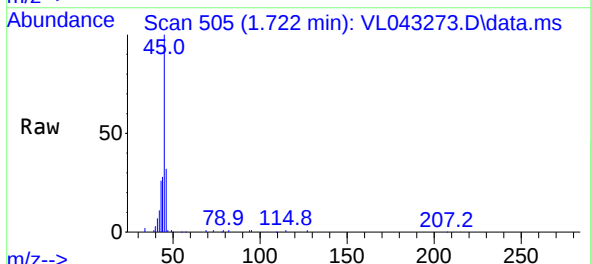
Manual Integrations
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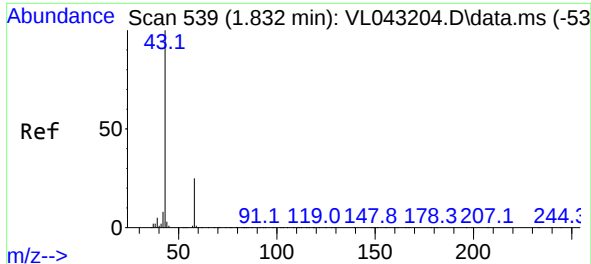
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#13
Ethanol
Concen: 3.792 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.006 min
Lab File: VL043273.D
Acq: 20 Nov 2025 19:44

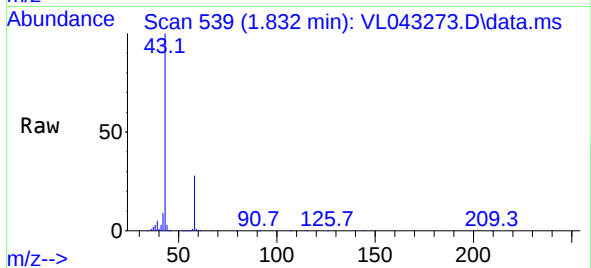
Tgt Ion: 45 Resp: 8260
Ion Ratio Lower Upper
45 100
46 0.0 15.0 59.8#





#15
Acetone
Concen: 72.947 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL043273.D
Acq: 20 Nov 2025 19:44

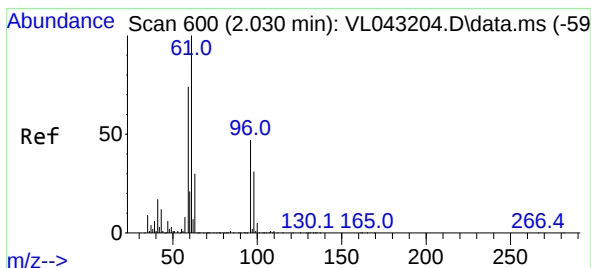
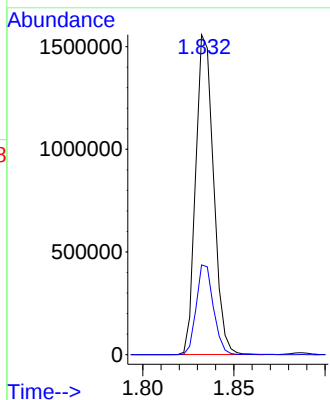
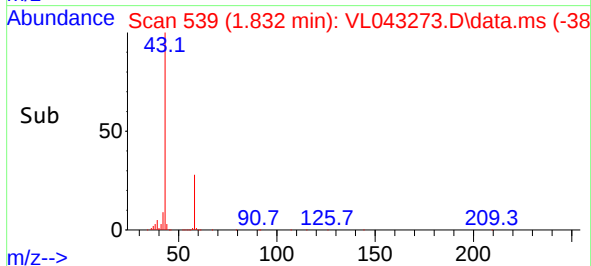
Instrument :
MSVOA_L
ClientSampleId :
SV2



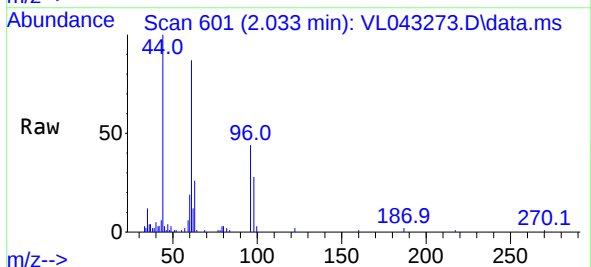
Tgt Ion: 43 Resp: 1065814
Ion Ratio Lower Upper
43 100
58 27.0 20.7 31.1

Manual Integrations
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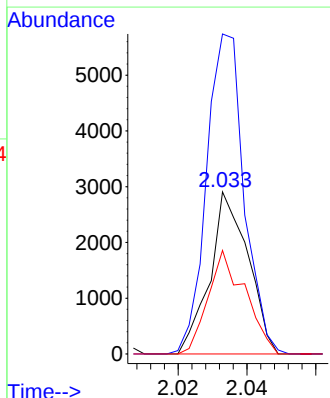
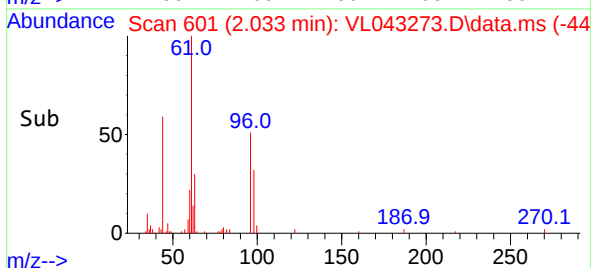
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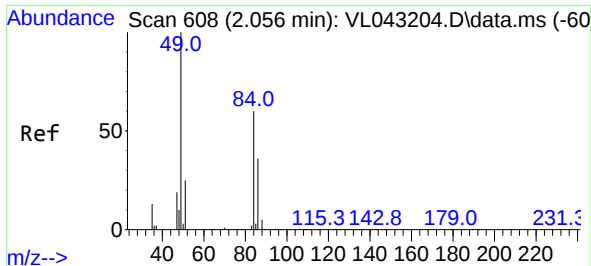


#18
1,1-Dichloroethene
Concen: 0.430 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL043273.D
Acq: 20 Nov 2025 19:44



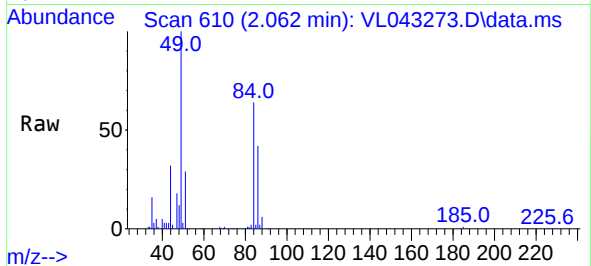
Tgt Ion: 96 Resp: 2244
Ion Ratio Lower Upper
96 100
61 195.4 170.6 255.8
98 63.9 52.2 78.4





#20
Methylene Chloride
Concen: 1.508 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043273.D
Acq: 20 Nov 2025 19:44

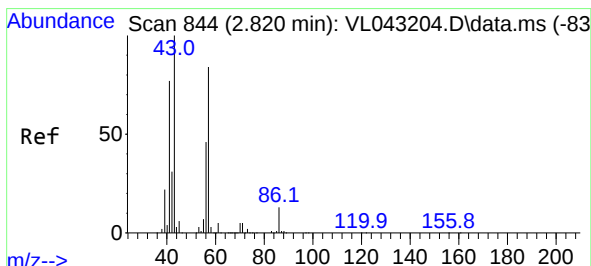
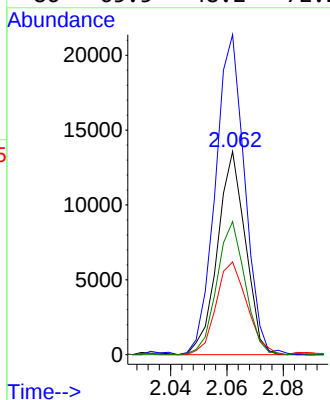
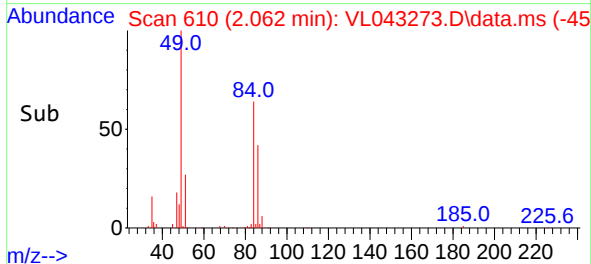
Instrument :
MSVOA_L
ClientSampleId :
SV2



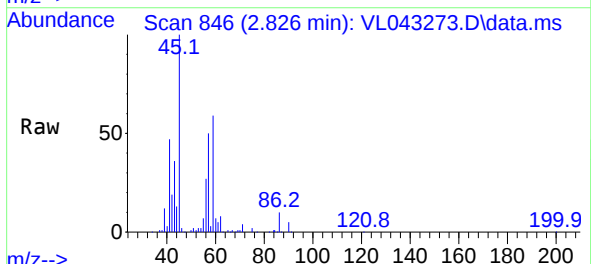
Tgt Ion: 84 Resp: 936
Ion Ratio Lower Upper
84 100
49 156.4 132.9 199.3
51 45.7 34.8 52.2
86 65.5 48.2 72.2

Manual Integrations
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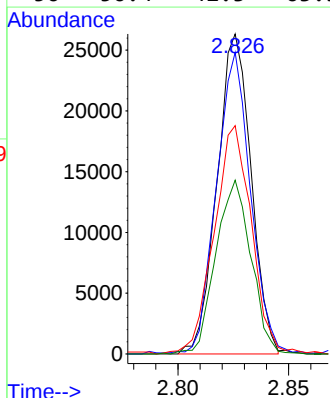
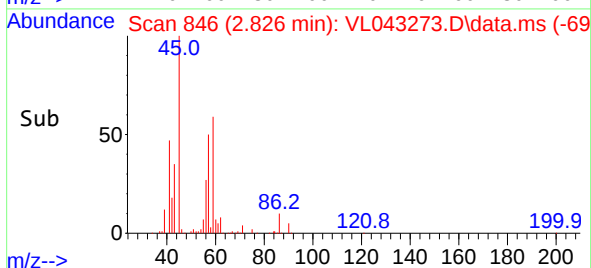
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

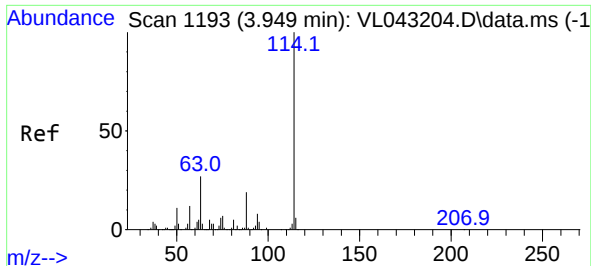


#26
Hexane
Concen: 2.034 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.006 min
Lab File: VL043273.D
Acq: 20 Nov 2025 19:44



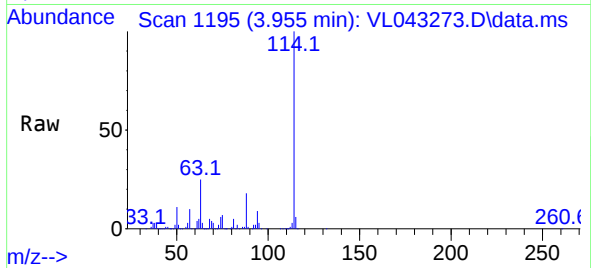
Tgt Ion: 57 Resp: 28098
Ion Ratio Lower Upper
57 100
41 96.1 74.6 111.8
43 80.0 179.0 268.4#
56 56.4 42.3 63.5





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. 0.006 min
Lab File: VL043273.D
Acq: 20 Nov 2025 19:44

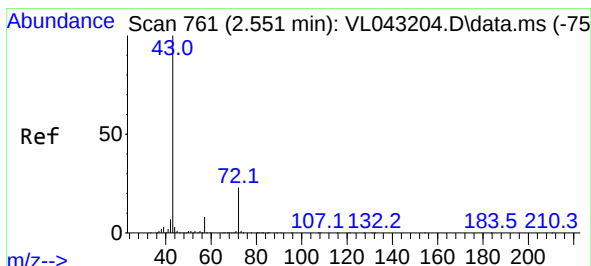
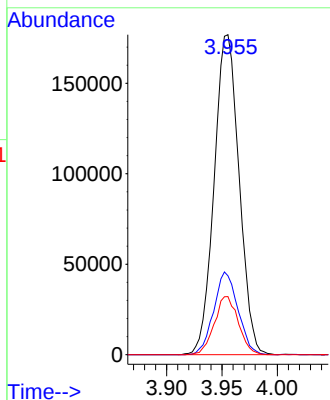
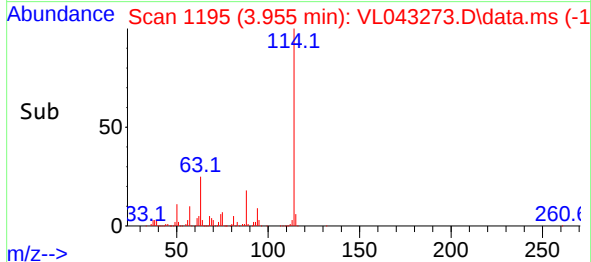
Instrument :
MSVOA_L
ClientSampleId :
SV2



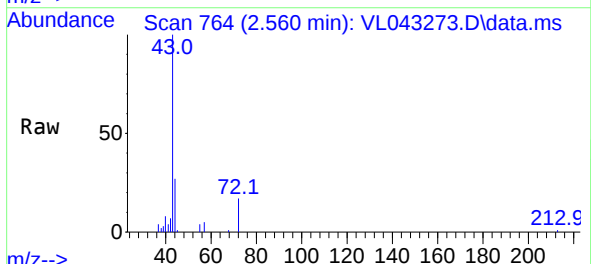
Tgt Ion:114 Resp: 27738
Ion Ratio Lower Upper
114 100
63 25.2 21.0 31.6
88 17.5 14.9 22.3

Manual Integrations
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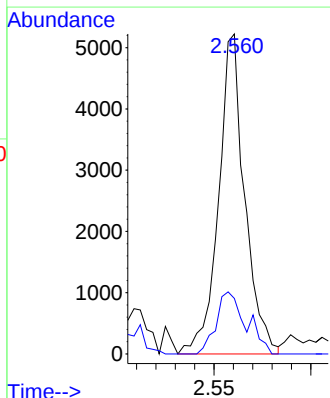
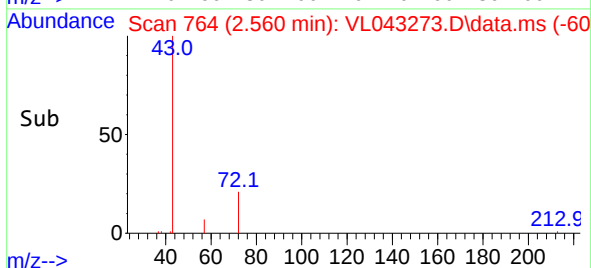
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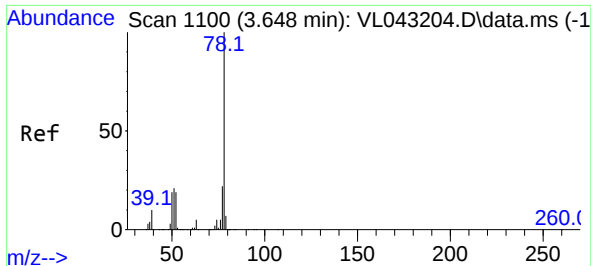


#34
2-Butanone
Concen: 0.251 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.009 min
Lab File: VL043273.D
Acq: 20 Nov 2025 19:44



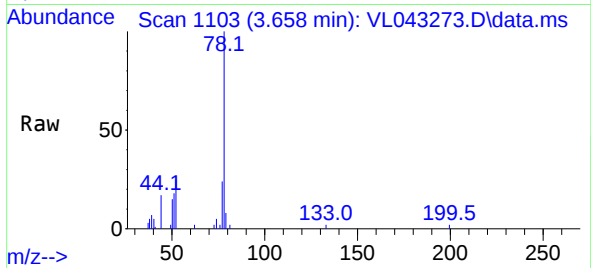
Tgt Ion: 43 Resp: 4908
Ion Ratio Lower Upper
43 100
72 22.3 18.1 27.1





#36
Benzene
Concen: 0.179 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.009 min
Lab File: VL043273.D
Acq: 20 Nov 2025 19:44

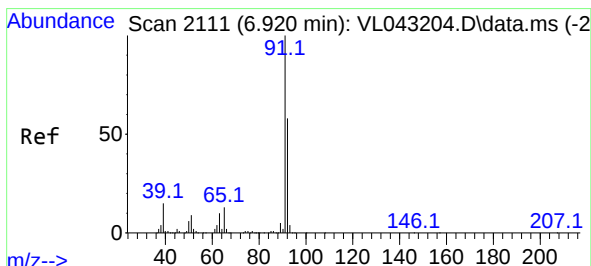
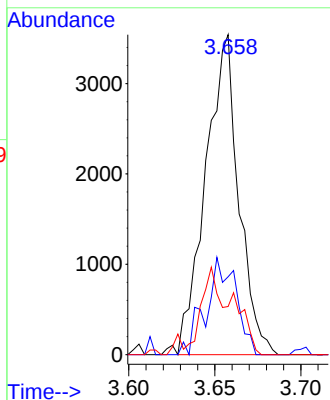
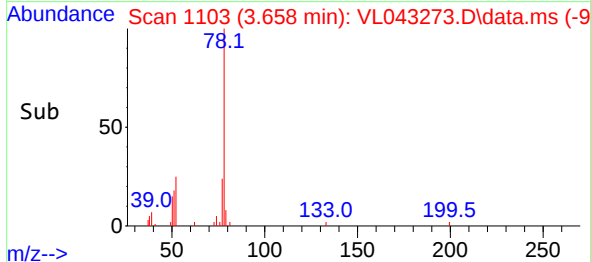
Instrument :
MSVOA_L
ClientSampleId :
SV2



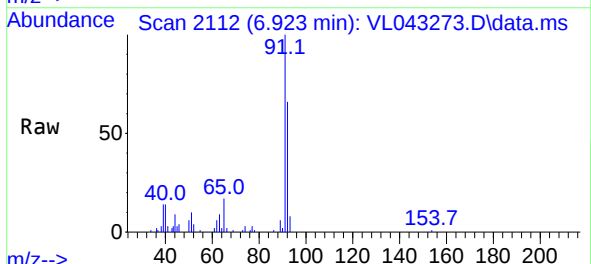
Tgt Ion: 78 Resp: 4740
Ion Ratio Lower Upper
78 100
77 24.4 17.5 26.3
50 15.1 15.5 23.3

Manual Integrations
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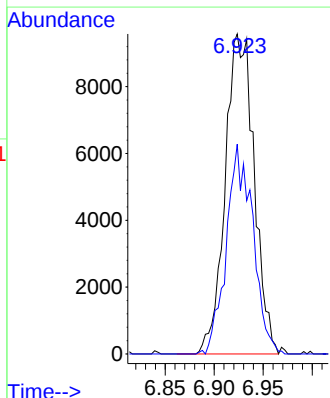
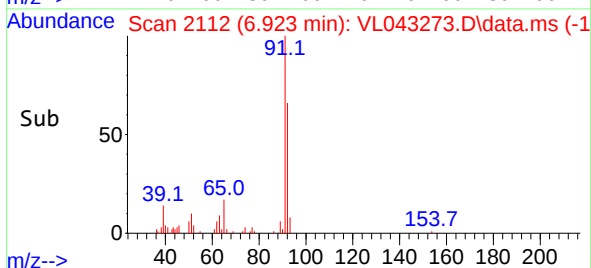
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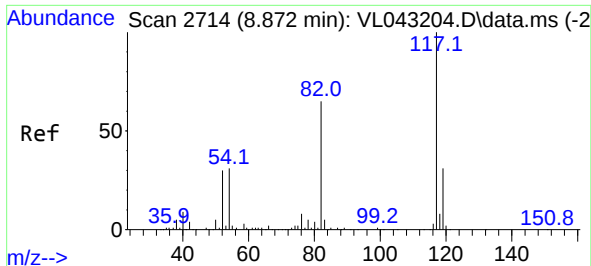


#53
Toluene
Concen: 0.624 ppbv m
RT: 6.923 min Scan# 2112
Delta R.T. 0.003 min
Lab File: VL043273.D
Acq: 20 Nov 2025 19:44



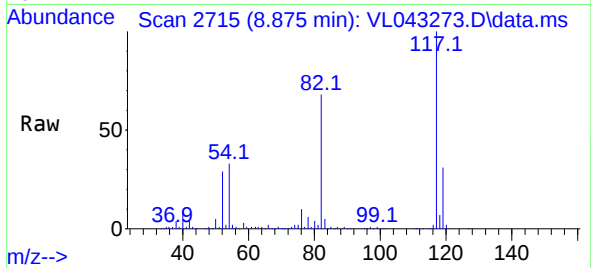
Tgt Ion: 91 Resp: 19622
Ion Ratio Lower Upper
91 100
92 0.0 47.4 71.0#





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2117
Delta R.T. 0.003 min
Lab File: VL043273.D
Acq: 20 Nov 2025 19:44

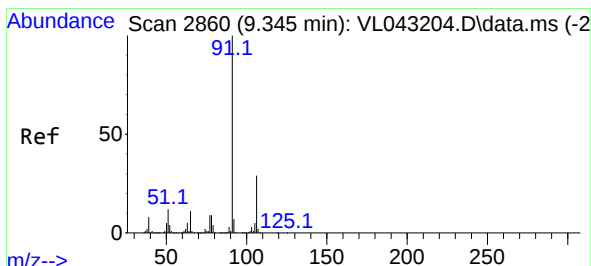
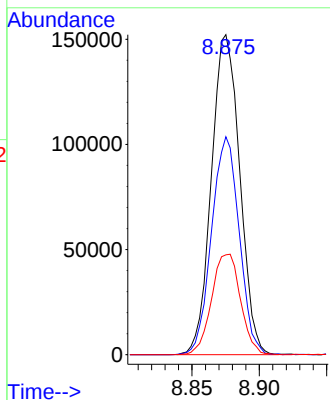
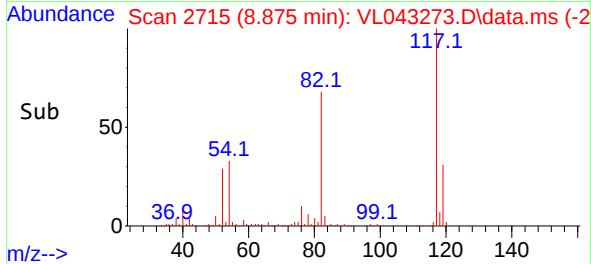
Instrument :
MSVOA_L
ClientSampleId :
SV2



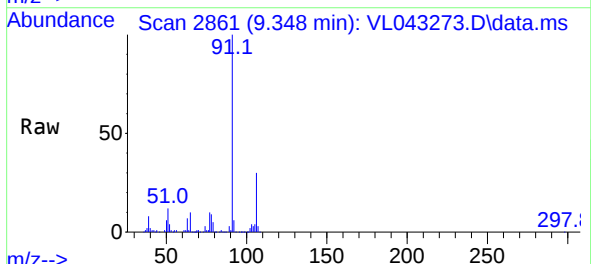
Tgt Ion:117 Resp: 223095
Ion Ratio Lower Upper
117 100
82 66.5 56.1 84.1
119 32.0 25.0 37.6

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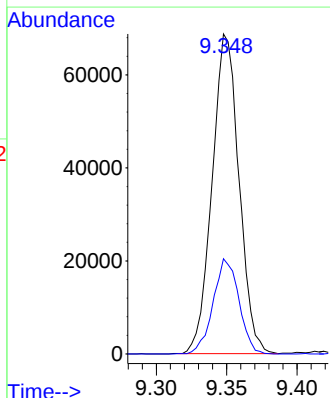
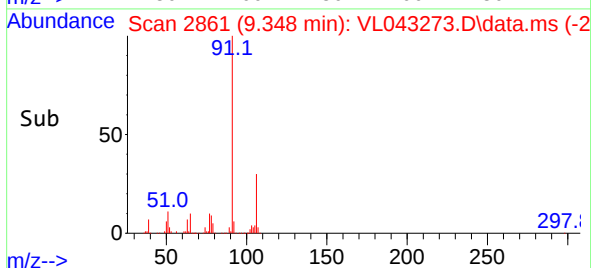
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

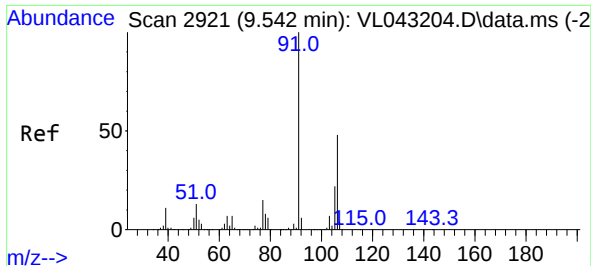


#58
Ethyl Benzene
Concen: 2.126 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. 0.003 min
Lab File: VL043273.D
Acq: 20 Nov 2025 19:44



Tgt Ion: 91 Resp: 91292
Ion Ratio Lower Upper
91 100
106 29.8 22.8 34.2





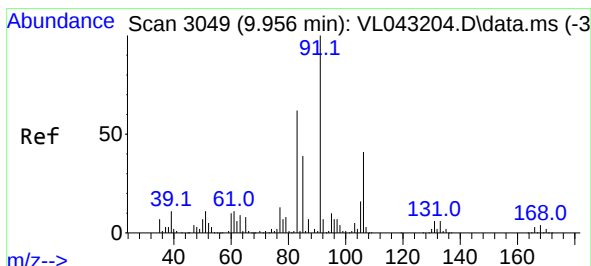
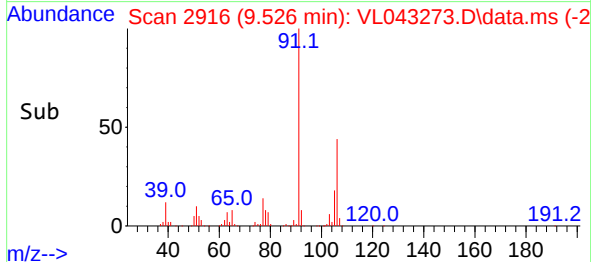
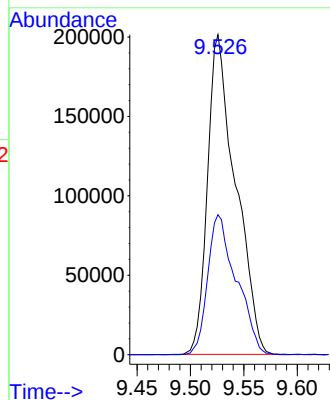
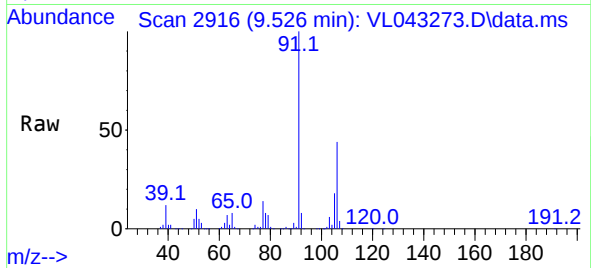
#59
m/p-Xylene
Concen: 10.681 ppbv
RT: 9.526 min Scan# 2916
Delta R.T. -0.016 min
Lab File: VL043273.D
Acq: 20 Nov 2025 19:44

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 91 Resp: 36772
Ion Ratio Lower Upper
91 100
106 44.8 36.1 54.1

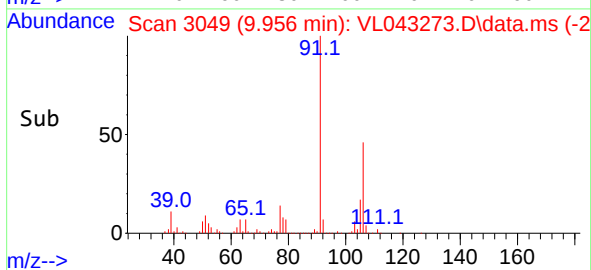
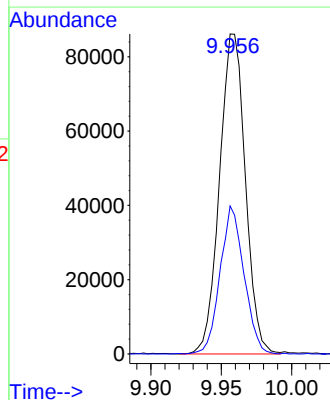
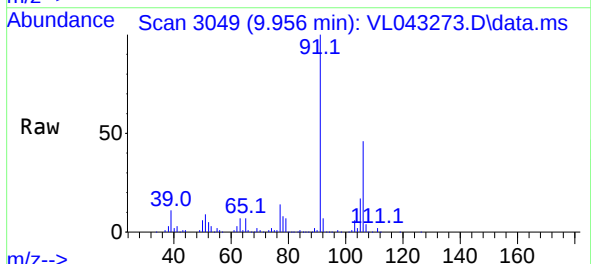
Manual Integrations
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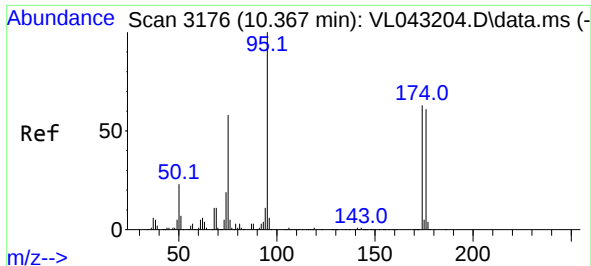
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#60
o-Xylene
Concen: 3.205 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.000 min
Lab File: VL043273.D
Acq: 20 Nov 2025 19:44

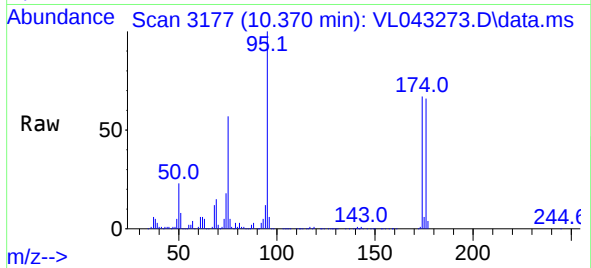
Tgt Ion: 91 Resp: 110225
Ion Ratio Lower Upper
91 100
106 42.9 20.9 62.8





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.209 ppbv
 RT: 10.370 min Scan# 31
 Delta R.T. 0.003 min
 Lab File: VL043273.D
 Acq: 20 Nov 2025 19:44

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2



Tgt Ion: 95 Resp: 166954
 Ion Ratio Lower Upper
 95 100
 174 67.3 50.2 75.2
 175 5.1 4.1 6.1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2025
 Supervised By :Mahesh Dadoda 11/21/2025

