

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
 Data File : VL042337.D
 Acq On : 15 Apr 2025 17:46
 Operator : SY/MD
 Sample : Q1802-01DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Quant Time: Apr 16 01:35:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.816	49	186062	10.000	ppbv	0.03
33) 1,4-Difluorobenzene	4.001	114	460120	10.000	ppbv	0.05
55) Chlorobenzene-d5	8.917	117	399178	10.000	ppbv	0.04
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.406	95	311387	9.499	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.506	85	851	0.031	ppbv	92
3) Chlorodifluoromethane	1.470	51	324078	11.548	ppbv #	58
7) Chloroethane	1.577	64	178	0.039	ppbv	94
9) Propene	1.496	41	2342	0.182	ppbv	98
13) Ethanol	1.739	45	6598	5.426	ppbv #	27
15) Acetone	1.855	43	10165	0.391	ppbv #	29
16) 1,3-Butadiene	1.632	39	1193	0.094	ppbv #	58
19) Isopropyl Alcohol	1.739	45	6598	0.449	ppbv #	48
20) Methylene Chloride	2.082	84	1430	0.148	ppbv #	75
23) Vinyl Acetate	2.499	43	1705	0.151	ppbv #	44
26) Hexane	2.858	57	1382	0.053	ppbv #	28
29) Chloroform	2.881	83	19420	0.509	ppbv	96
31) cis-1,2-Dichloroethene	2.752	61	4872	0.184	ppbv	90
34) 2-Butanone	2.587	43	39696	1.190	ppbv	96
38) Trichloroethene	4.600	130	9607	0.505	ppbv	94
39) 1,2-Dichloropropane	4.001	63	118690	7.145	ppbv #	22
52) Tetrachloroethene	8.267	164	399592	22.089	ppbv	97
58) Ethyl Benzene	9.562	91	2712	0.038	ppbv	93
60) o-Xylene	9.995	91	2621	0.046	ppbv	93

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

Quant Time: Apr 16 01:35:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
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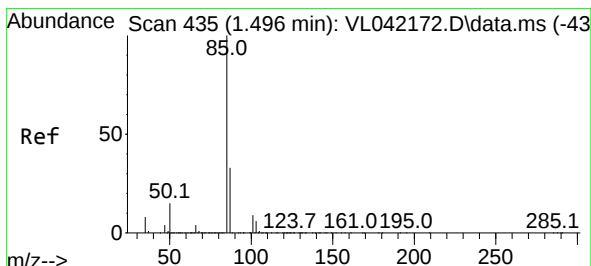
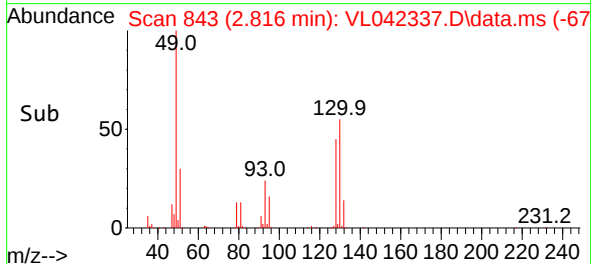
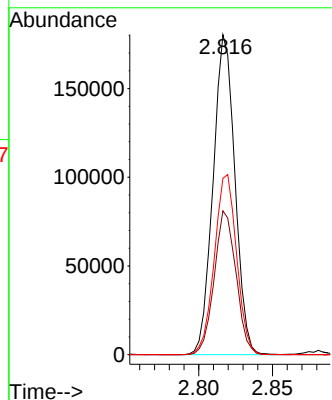
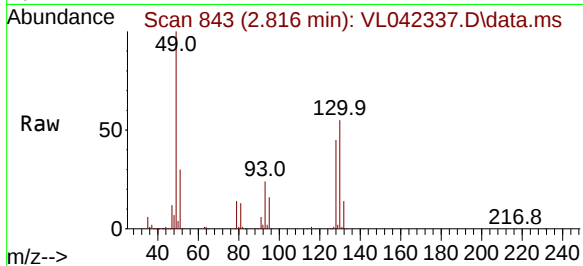




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.816 min Scan# 84
Delta R.T. 0.032 min
Lab File: VL042337.D
Acq: 15 Apr 2025 17:46

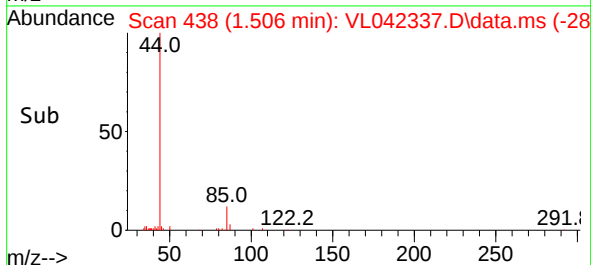
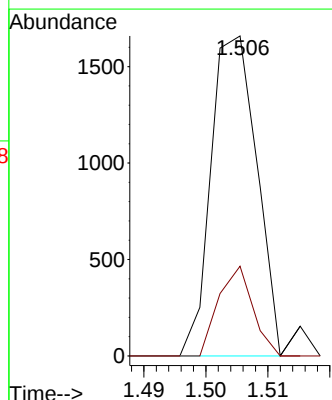
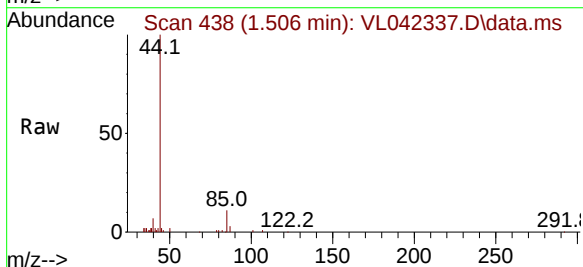
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tgt Ion: 49 Resp: 186062
Ion Ratio Lower Upper
49 100
128 44.8 22.9 68.5
130 57.5 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 0.031 ppbv
RT: 1.506 min Scan# 438
Delta R.T. 0.010 min
Lab File: VL042337.D
Acq: 15 Apr 2025 17:46

Tgt Ion: 85 Resp: 851
Ion Ratio Lower Upper
85 100
87 28.0 26.1 39.1

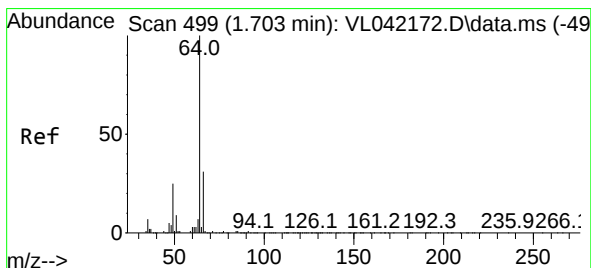
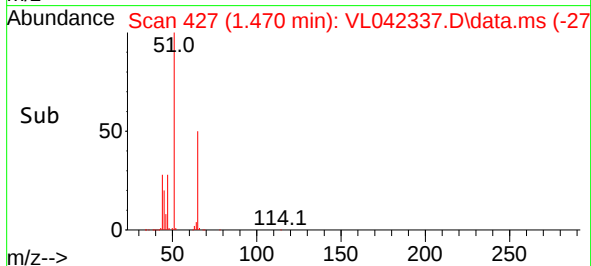
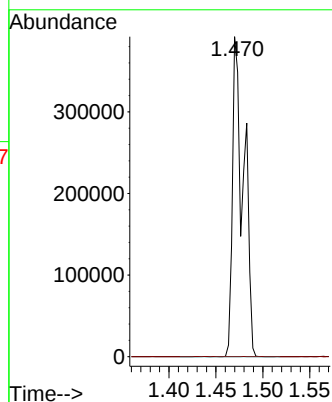
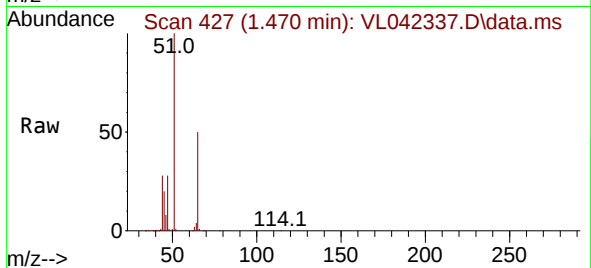




#3
Chlorodifluoromethane
Concen: 11.548 ppbv
RT: 1.470 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042337.D
Acq: 15 Apr 2025 17:46

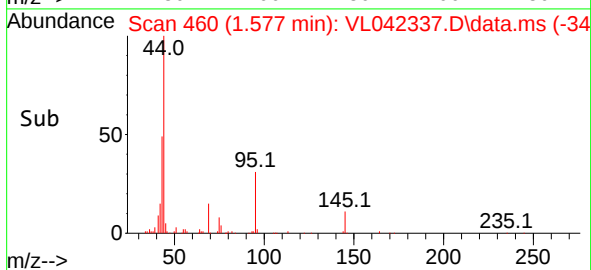
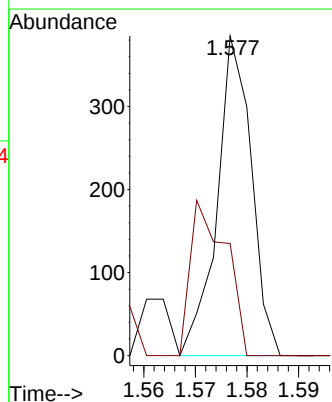
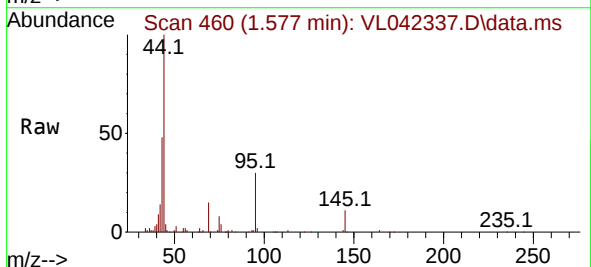
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

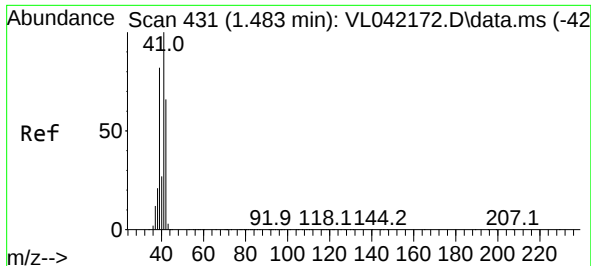
Tgt Ion: 51 Resp: 324078
Ion Ratio Lower Upper
51 100
67 0.0 15.0 22.6#



#7
Chloroethane
Concen: 0.039 ppbv
RT: 1.577 min Scan# 460
Delta R.T. -0.126 min
Lab File: VL042337.D
Acq: 15 Apr 2025 17:46

Tgt Ion: 64 Resp: 178
Ion Ratio Lower Upper
64 100
66 35.1 25.2 37.8





#9

Propene

Concen: 0.182 ppbv

RT: 1.496 min Scan# 41

Delta R.T. 0.013 min

Lab File: VL042337.D

Acq: 15 Apr 2025 17:46

Instrument :

MSVOA_L

ClientSampleId :

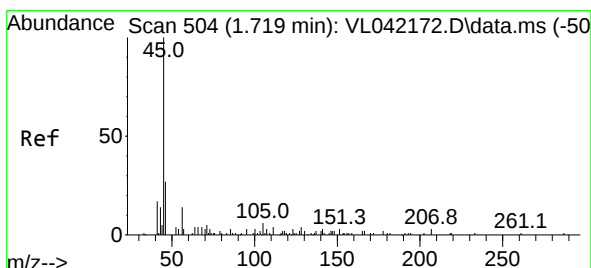
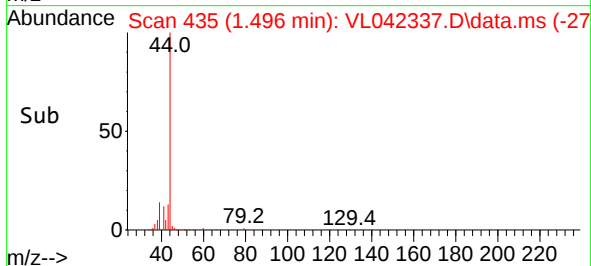
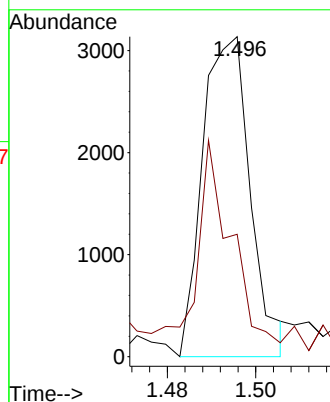
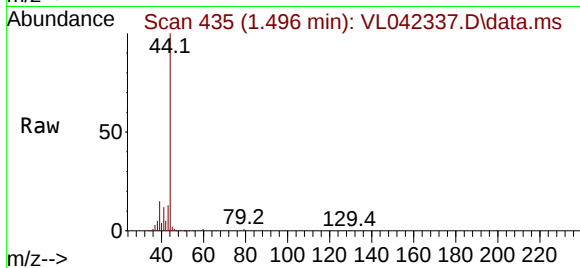
SV1DL

Tgt Ion: 41 Resp: 2342

Ion Ratio Lower Upper

41 100

42 70.8 55.4 83.2



#13

Ethanol

Concen: 5.426 ppbv

RT: 1.739 min Scan# 510

Delta R.T. 0.019 min

Lab File: VL042337.D

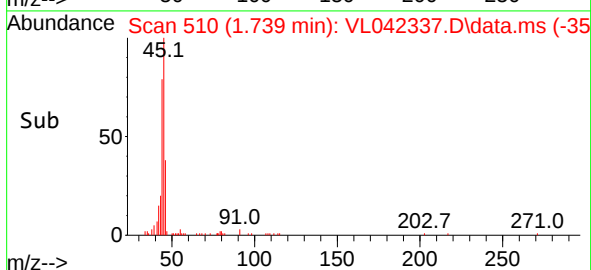
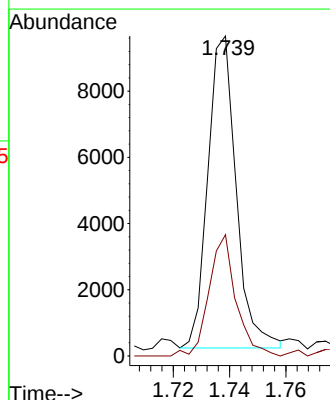
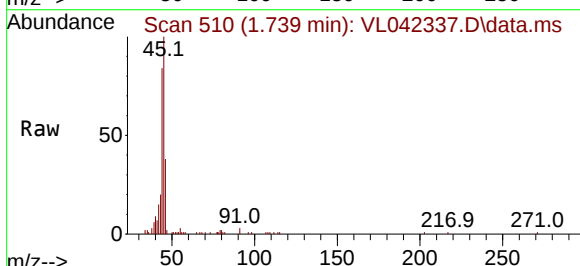
Acq: 15 Apr 2025 17:46

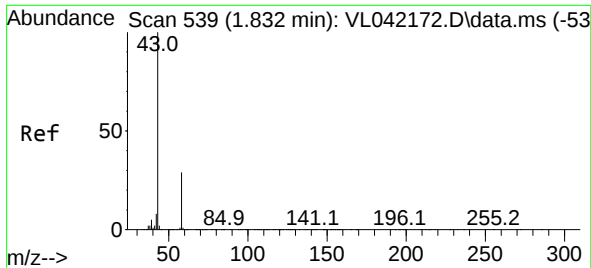
Tgt Ion: 45 Resp: 6598

Ion Ratio Lower Upper

45 100

46 0.0 20.2 80.8#





#15

Acetone

Concen: 0.391 ppbv

RT: 1.855 min Scan# 54

Delta R.T. 0.023 min

Lab File: VL042337.D

Acq: 15 Apr 2025 17:46

Instrument :

MSVOA_L

ClientSampleId :

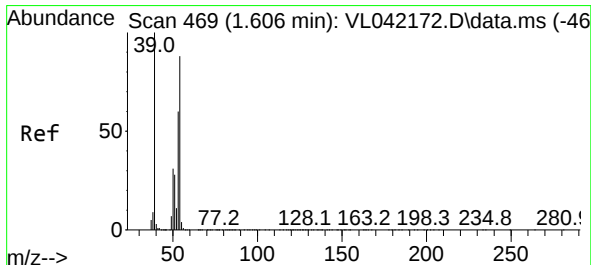
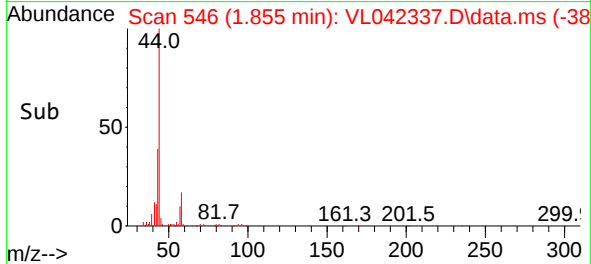
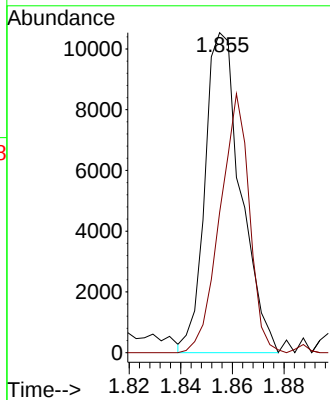
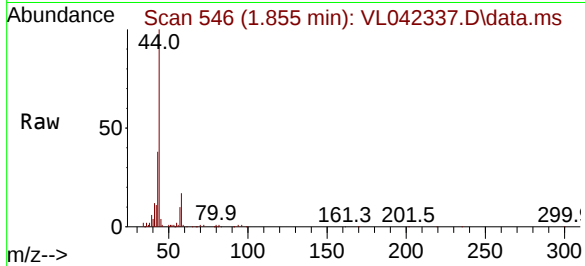
SV1DL

Tgt Ion: 43 Resp: 10165

Ion Ratio Lower Upper

43 100

58 67.2 23.2 34.8#



#16

1,3-Butadiene

Concen: 0.094 ppbv

RT: 1.632 min Scan# 477

Delta R.T. 0.026 min

Lab File: VL042337.D

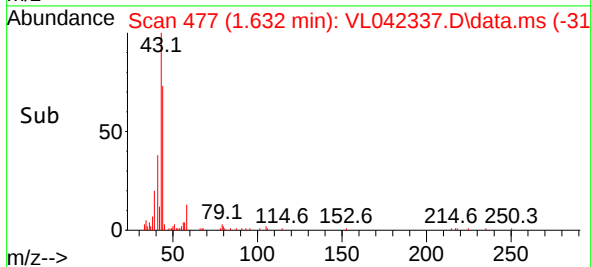
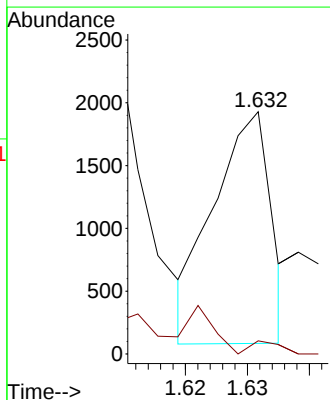
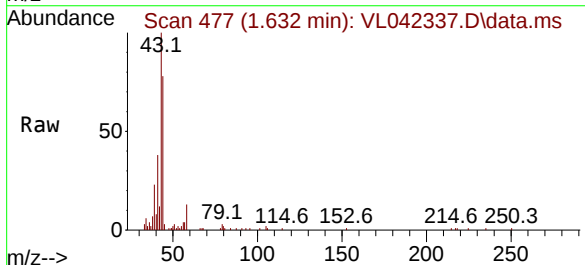
Acq: 15 Apr 2025 17:46

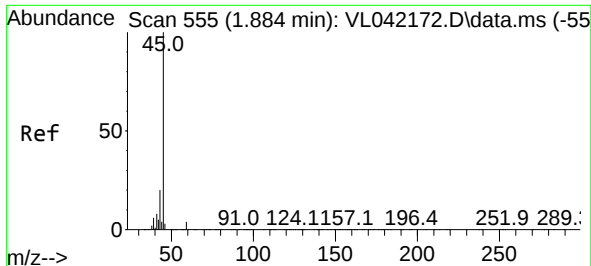
Tgt Ion: 39 Resp: 1193

Ion Ratio Lower Upper

39 100

54 40.2 60.7 91.1#

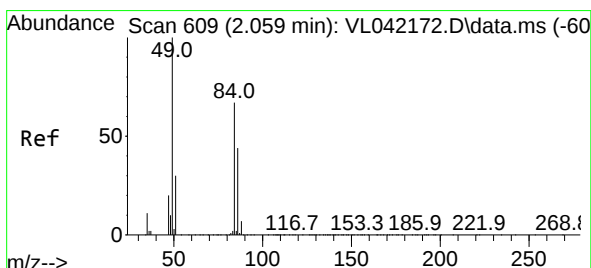
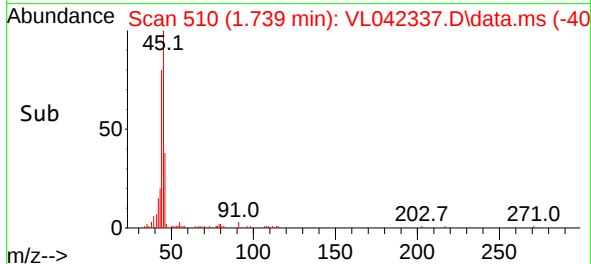
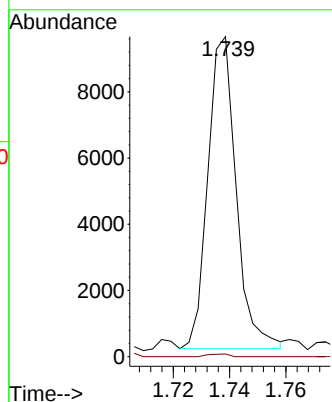
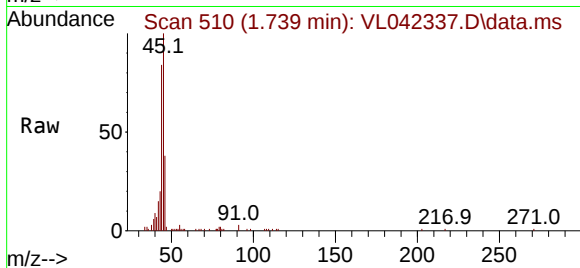




#19
Isopropyl Alcohol
Concen: 0.449 ppbv
RT: 1.739 min Scan# 51
Delta R.T. -0.146 min
Lab File: VL042337.D
Acq: 15 Apr 2025 17:46

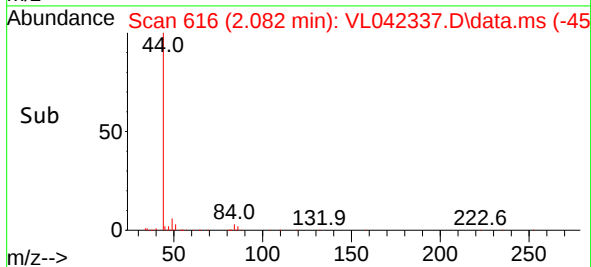
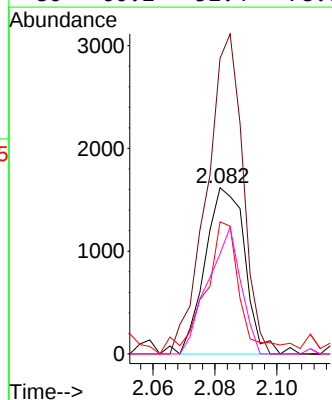
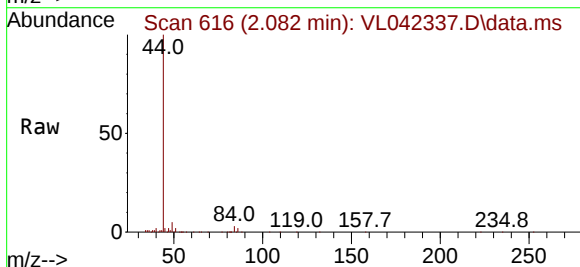
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

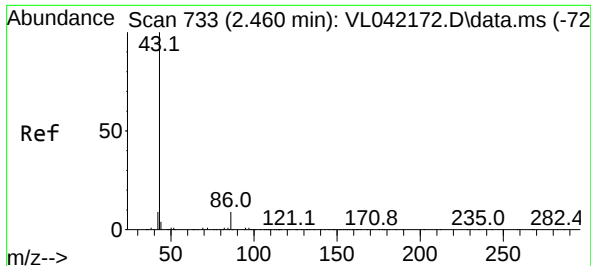
Tgt Ion: 45 Resp: 6598
Ion Ratio Lower Upper
45 100
58 12.0 36.9 55.3#



#20
Methylene Chloride
Concen: 0.148 ppbv
RT: 2.082 min Scan# 616
Delta R.T. 0.023 min
Lab File: VL042337.D
Acq: 15 Apr 2025 17:46

Tgt Ion: 84 Resp: 1430
Ion Ratio Lower Upper
84 100
49 186.5 120.2 180.4#
51 74.5 37.4 56.0#
86 60.2 52.4 78.6

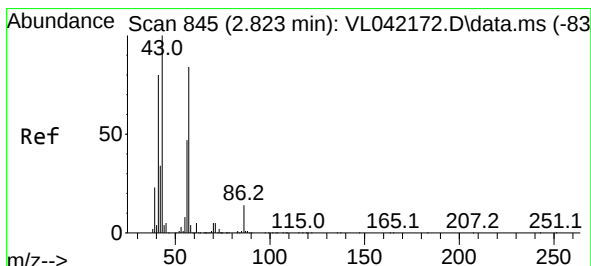
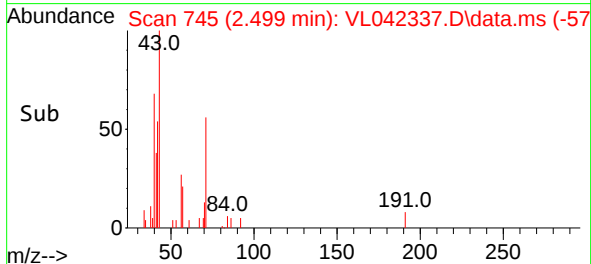
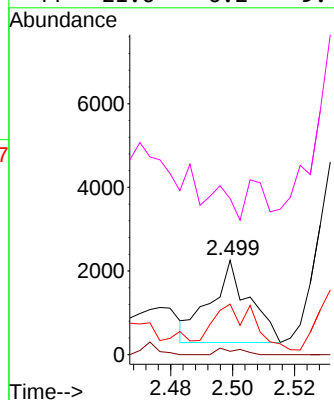
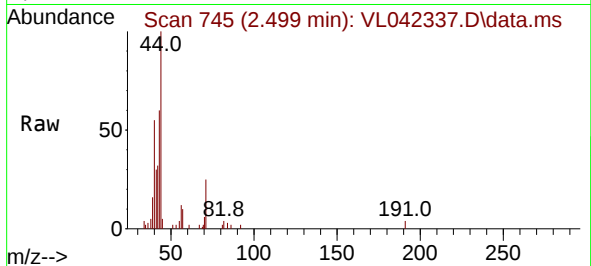




#23
 Vinyl Acetate
 Concen: 0.151 ppbv
 RT: 2.499 min Scan# 745
 Delta R.T. 0.039 min
 Lab File: VL042337.D
 Acq: 15 Apr 2025 17:46

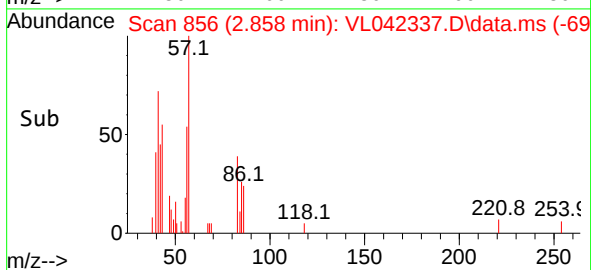
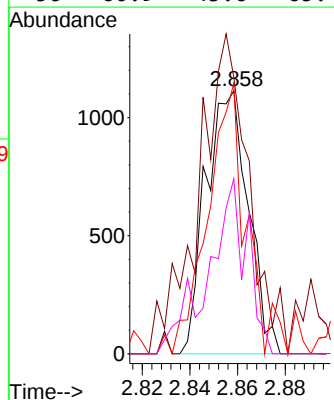
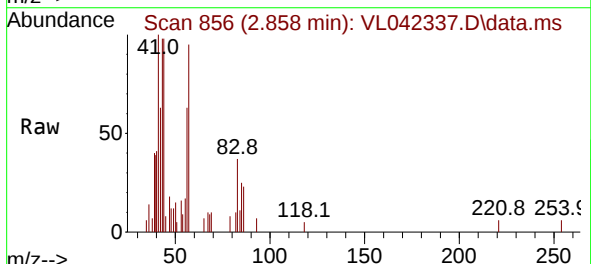
Instrument :
 MSVOA_1
 ClientSampleId :
 SV1DL

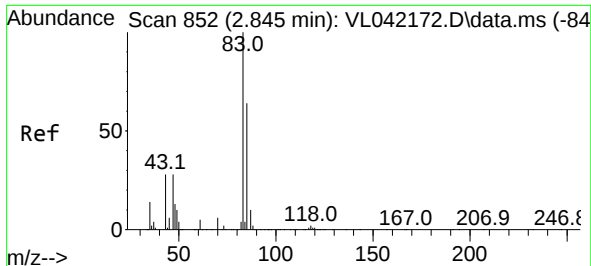
Tgt Ion:	43	Resp:	1705
Ion	Ratio	Lower	Upper
43	100		
86	4.1	5.5	8.3#
42	48.2	8.6	13.0#
44	21.6	6.2	9.4#



#26
 Hexane
 Concen: 0.053 ppbv
 RT: 2.858 min Scan# 856
 Delta R.T. 0.036 min
 Lab File: VL042337.D
 Acq: 15 Apr 2025 17:46

Tgt Ion:	57	Resp:	1382
Ion	Ratio	Lower	Upper
57	100		
41	156.6	76.6	114.8#
43	102.1	207.8	311.8#
56	60.9	43.6	65.4





#29

Chloroform

Concen: 0.509 ppbv

RT: 2.881 min Scan# 80

Delta R.T. 0.036 min

Lab File: VL042337.D

Acq: 15 Apr 2025 17:46

Instrument :

MSVOA_L

ClientSampleId :

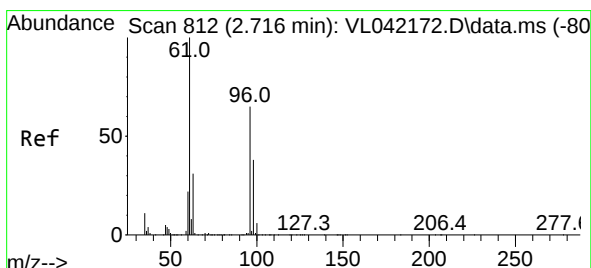
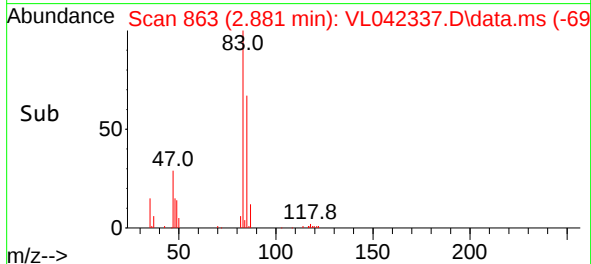
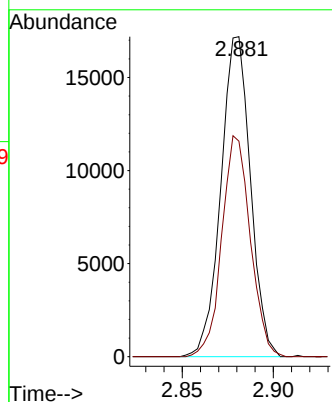
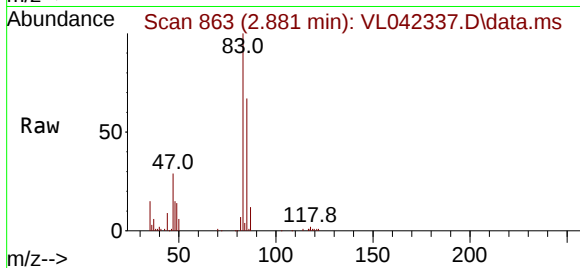
SV1DL

Tgt Ion: 83 Resp: 19420

Ion Ratio Lower Upper

83 100

85 67.4 51.4 77.2



#31

cis-1,2-Dichloroethene

Concen: 0.184 ppbv

RT: 2.752 min Scan# 823

Delta R.T. 0.036 min

Lab File: VL042337.D

Acq: 15 Apr 2025 17:46

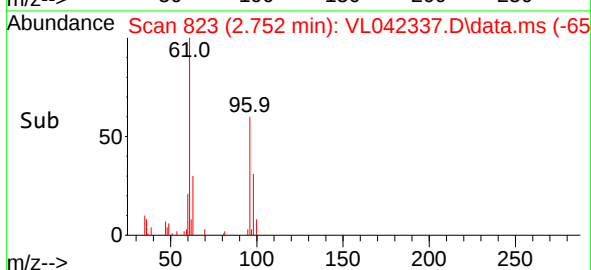
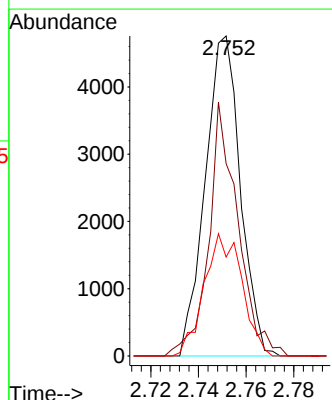
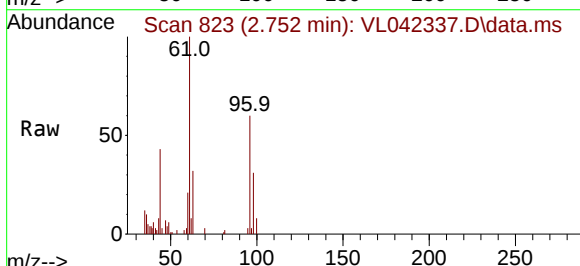
Tgt Ion: 61 Resp: 4872

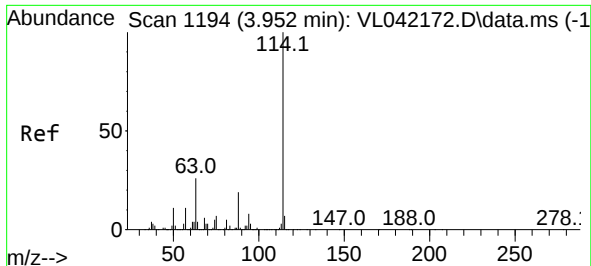
Ion Ratio Lower Upper

61 100

96 57.4 51.8 77.8

98 30.9 30.6 46.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 4.001 min Scan# 1194

Delta R.T. 0.049 min

Lab File: VL042337.D

Acq: 15 Apr 2025 17:46

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

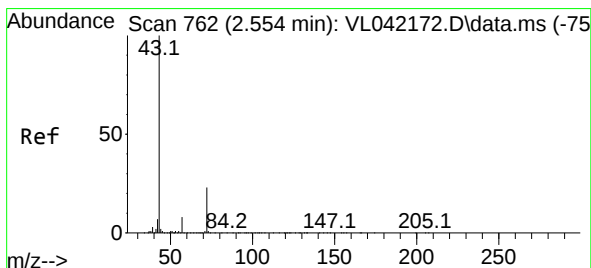
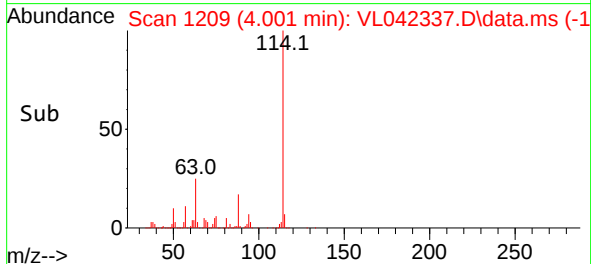
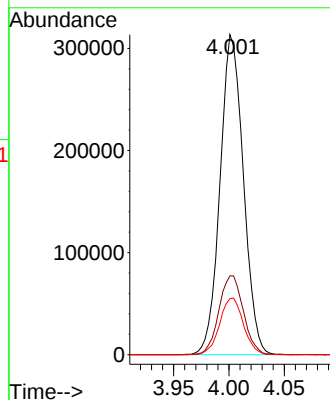
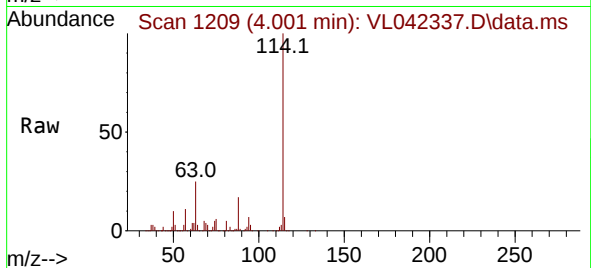
Tgt Ion:114 Resp: 460120

Ion Ratio Lower Upper

114 100

63 25.9 20.7 31.1

88 17.9 15.0 22.4



#34

2-Butanone

Concen: 1.190 ppbv

RT: 2.587 min Scan# 772

Delta R.T. 0.032 min

Lab File: VL042337.D

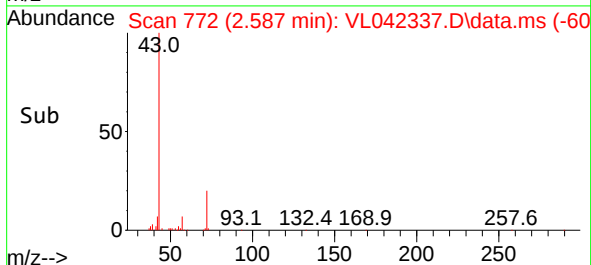
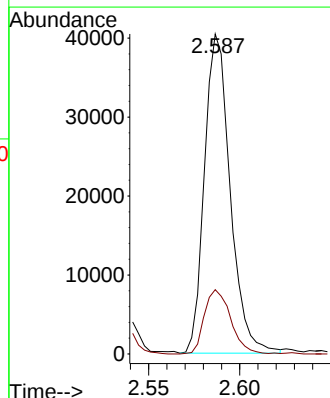
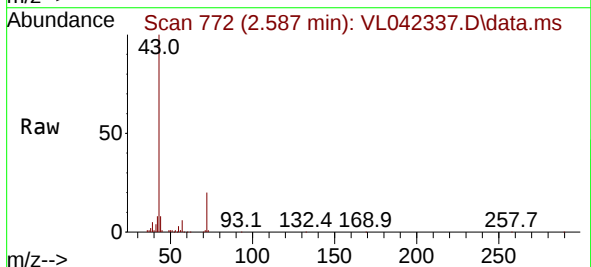
Acq: 15 Apr 2025 17:46

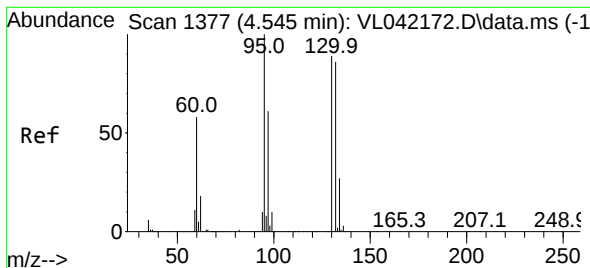
Tgt Ion: 43 Resp: 39696

Ion Ratio Lower Upper

43 100

72 20.8 18.2 27.2





#38

Trichloroethene

Concen: 0.505 ppbv

RT: 4.600 min Scan# 11

Delta R.T. 0.055 min

Lab File: VL042337.D

Acq: 15 Apr 2025 17:46

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

Tgt Ion:130 Resp: 9607

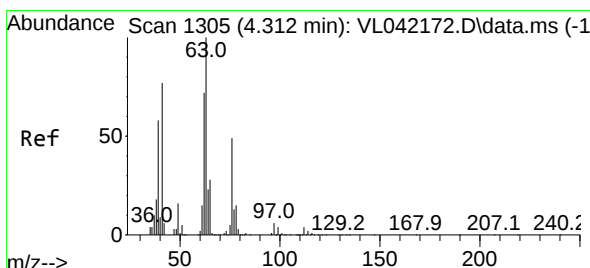
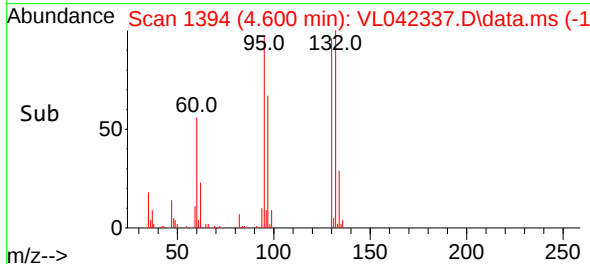
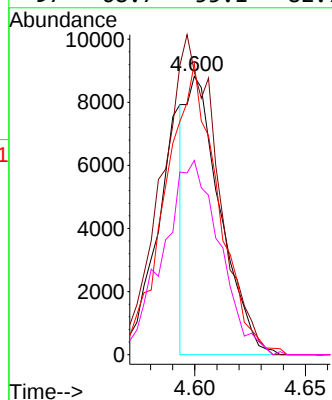
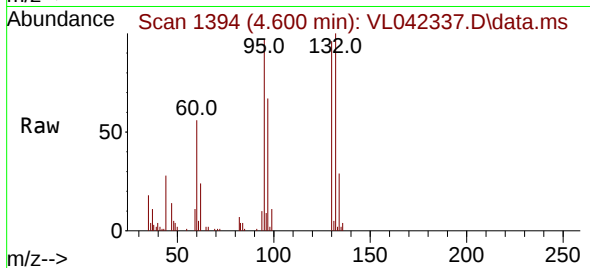
Ion Ratio Lower Upper

130 100

95 101.7 89.8 134.8

132 102.4 77.4 116.2

97 68.7 55.1 82.7



#39

1,2-Dichloropropane

Concen: 7.145 ppbv

RT: 4.001 min Scan# 1209

Delta R.T. -0.311 min

Lab File: VL042337.D

Acq: 15 Apr 2025 17:46

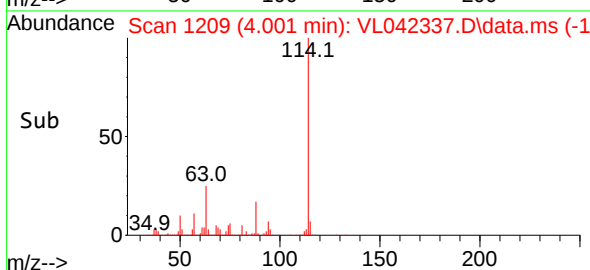
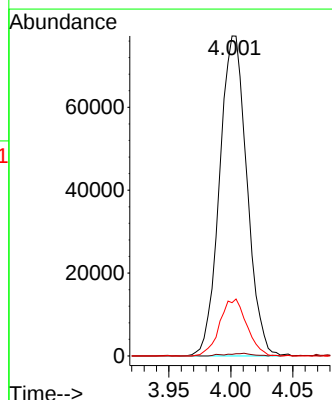
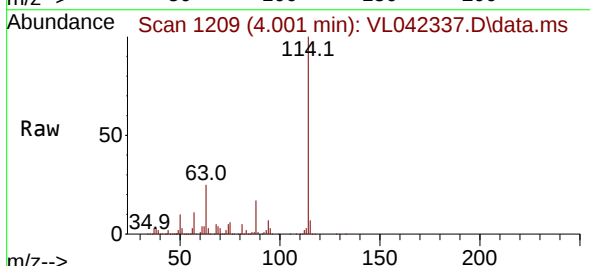
Tgt Ion: 63 Resp: 118690

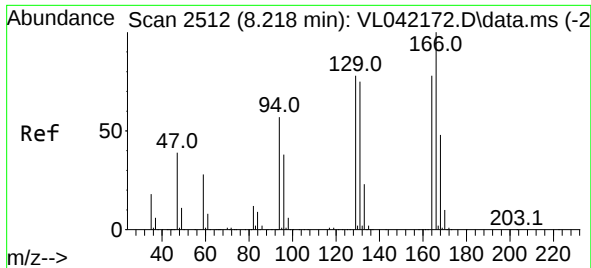
Ion Ratio Lower Upper

63 100

41 0.5 61.7 92.5#

62 16.6 57.6 86.4#

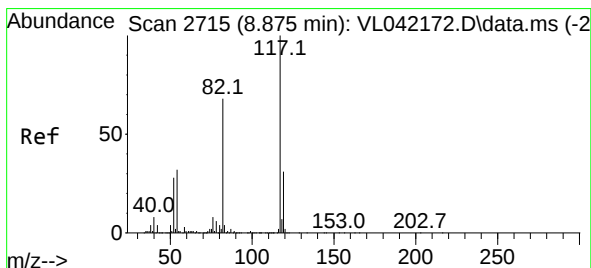
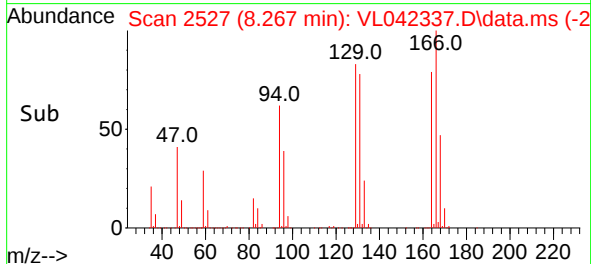
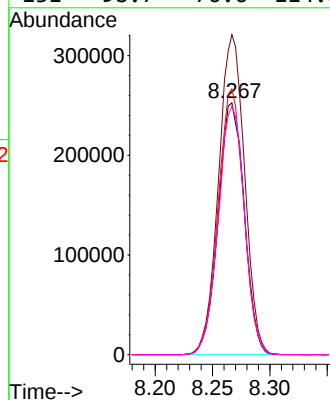
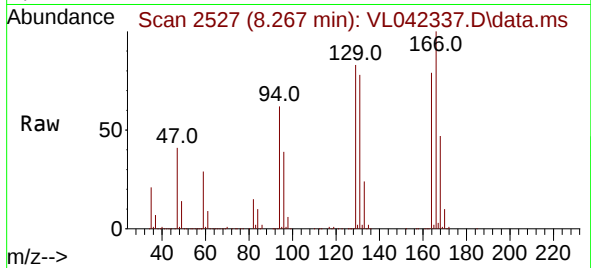




#52
Tetrachloroethene
Concen: 22.089 ppbv
RT: 8.267 min Scan# 21
Delta R.T. 0.049 min
Lab File: VL042337.D
Acq: 15 Apr 2025 17:46

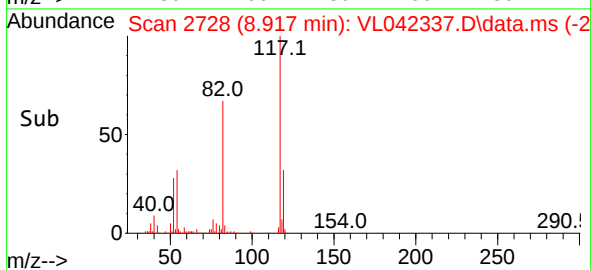
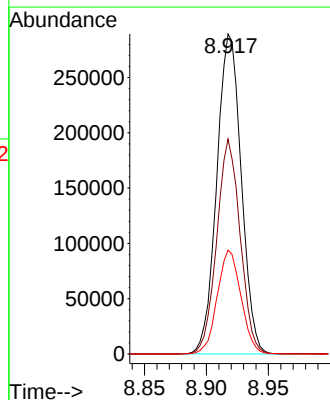
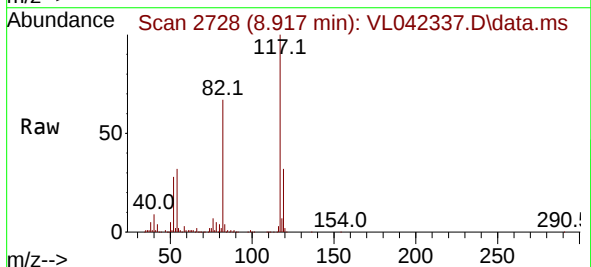
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

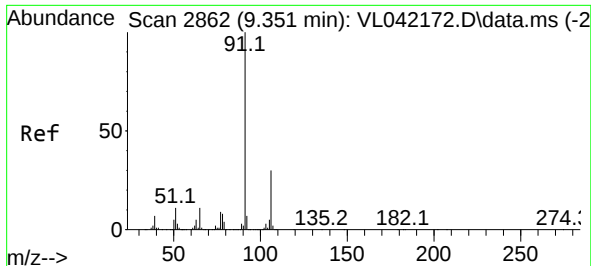
Tgt Ion:164 Resp: 399592
Ion Ratio Lower Upper
164 100
166 127.1 102.5 153.7
129 105.5 79.8 119.8
131 98.7 76.6 114.8



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.042 min
Lab File: VL042337.D
Acq: 15 Apr 2025 17:46

Tgt Ion:117 Resp: 399178
Ion Ratio Lower Upper
117 100
82 64.2 55.8 83.6
119 31.5 25.5 38.3

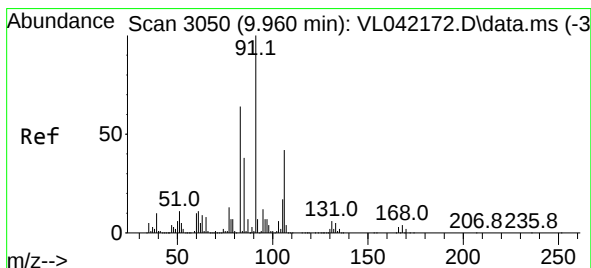
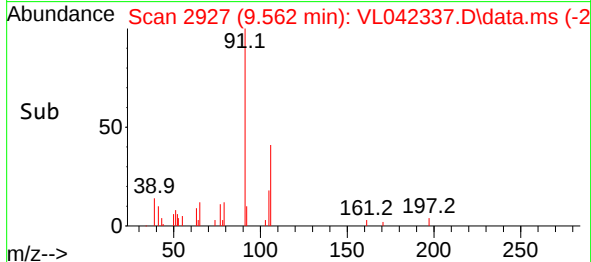
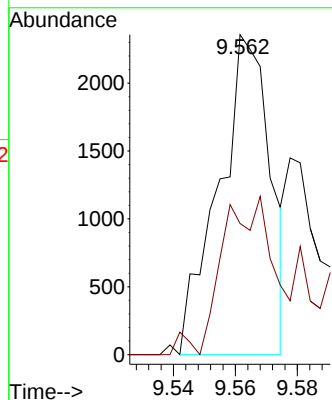
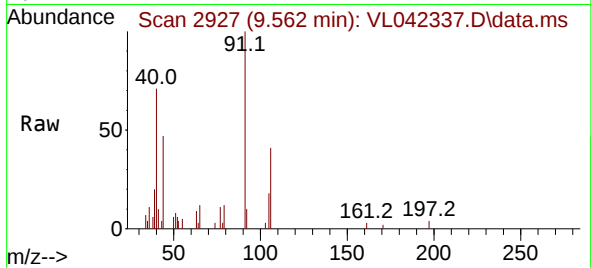




#58
Ethyl Benzene
Concen: 0.038 ppbv
RT: 9.562 min Scan# 2927
Delta R.T. 0.210 min
Lab File: VL042337.D
Acq: 15 Apr 2025 17:46

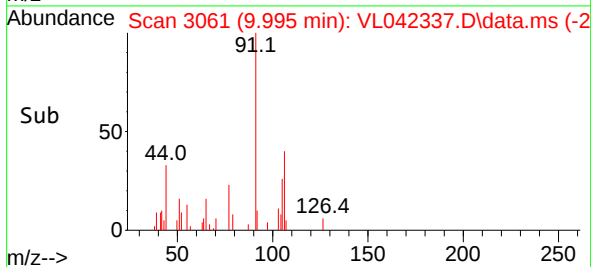
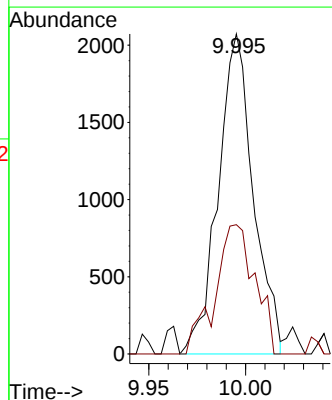
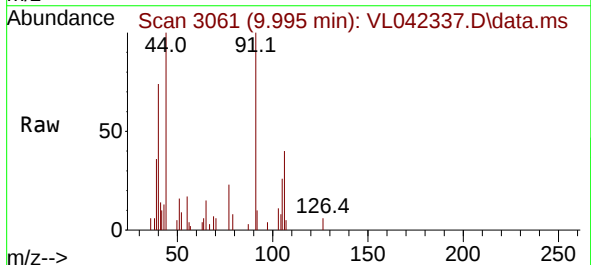
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

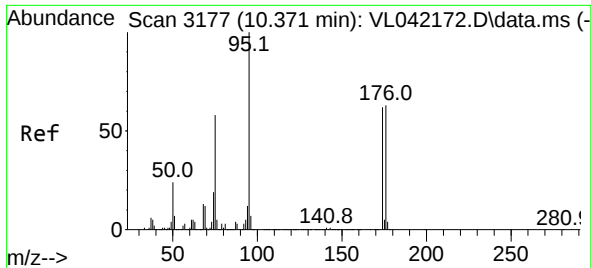
Tgt Ion: 91 Resp: 2712
Ion Ratio Lower Upper
91 100
106 33.9 24.2 36.2



#60
o-Xylene
Concen: 0.046 ppbv
RT: 9.995 min Scan# 3061
Delta R.T. 0.036 min
Lab File: VL042337.D
Acq: 15 Apr 2025 17:46

Tgt Ion: 91 Resp: 2621
Ion Ratio Lower Upper
91 100
106 45.8 20.8 62.5





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.499 ppbv
 RT: 10.406 min Scan# 31
 Delta R.T. 0.036 min
 Lab File: VL042337.D
 Acq: 15 Apr 2025 17:46

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Tgt Ion: 95 Resp: 311387
 Ion Ratio Lower Upper
 95 100
 174 66.1 50.6 76.0
 175 4.8 3.8 5.6

