

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
 Data File : VL042084.D
 Acq On : 03 Mar 2025 18:57
 Operator : SY/MD
 Sample : Q1430-04DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV4DL

Quant Time: Mar 04 00:21:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	159302	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.952	114	356251	10.000	ppbv	-0.03
55) Chlorobenzene-d5	8.875	117	299448	10.000	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	218112	9.468	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.700%

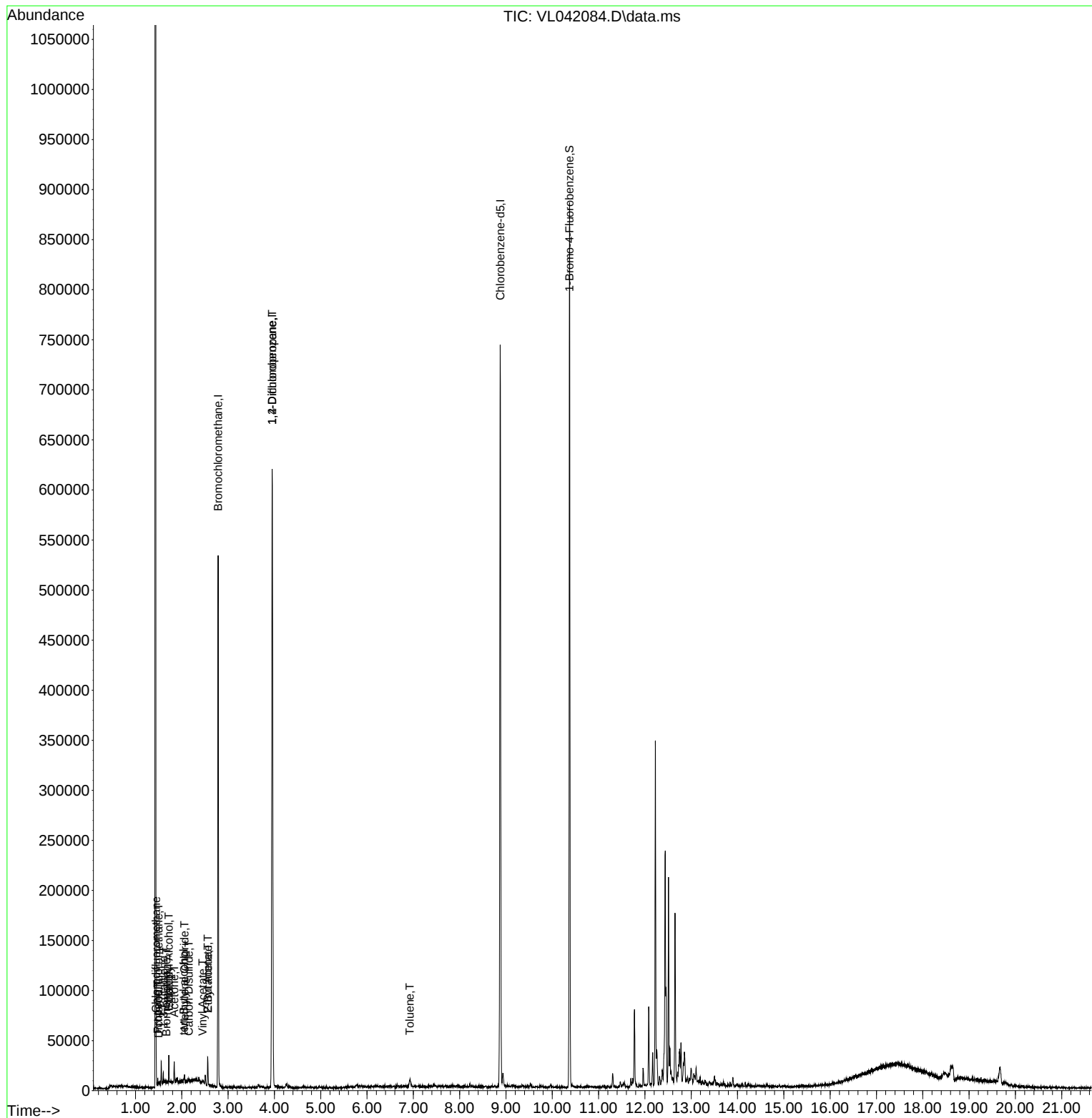
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	621	0.037	ppbv #	67
3) Chlorodifluoromethane	1.447	51	1820	0.079	ppbv #	84
6) Bromomethane	1.667	94	93	0.034	ppbv #	2
9) Propene	1.483	41	1650	0.175	ppbv	86
13) Ethanol	1.719	45	8831	14.749	ppbv	99
15) Acetone	1.835	43	9225	0.656	ppbv #	75
16) 1,3-Butadiene	1.602	39	1199	0.183	ppbv #	12
17) tert-Butyl alcohol	2.042	59	1203	0.068	ppbv #	65
19) Isopropyl Alcohol	1.719	45	8831	1.093	ppbv	94
20) Methylene Chloride	2.059	84	817	0.154	ppbv #	15
23) Vinyl Acetate	2.450	43	334	0.034	ppbv #	24
25) Ethyl Acetate	2.560	43	19550	0.347	ppbv #	75
27) Carbon Disulfide	2.149	76	703	0.046	ppbv #	1
34) 2-Butanone	2.560	43	19550	0.704	ppbv	92
39) 1,2-Dichloropropane	3.952	63	95602	6.754	ppbv #	23
53) Toluene	6.923	91	2355	0.057	ppbv #	20

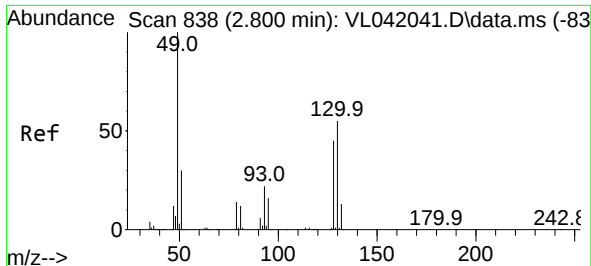
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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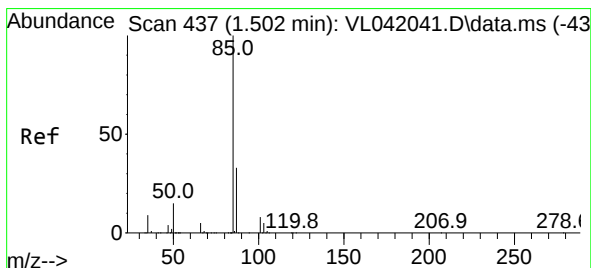
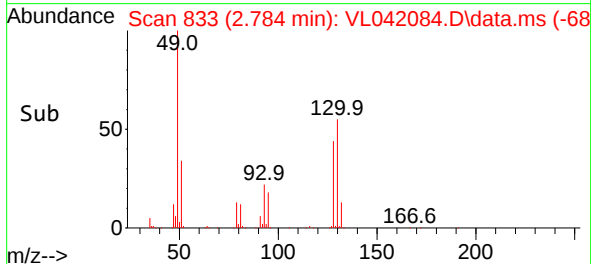
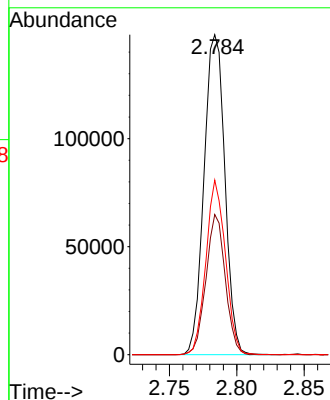
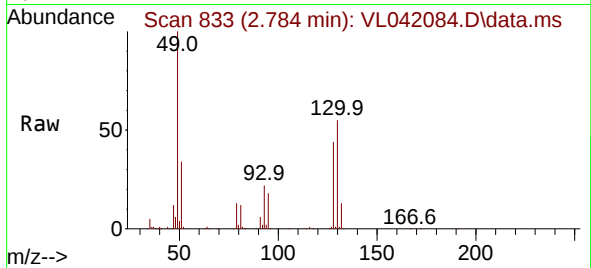




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.016 min
Lab File: VL042084.D
Acq: 03 Mar 2025 18:57

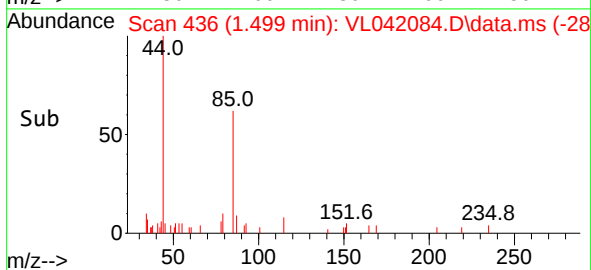
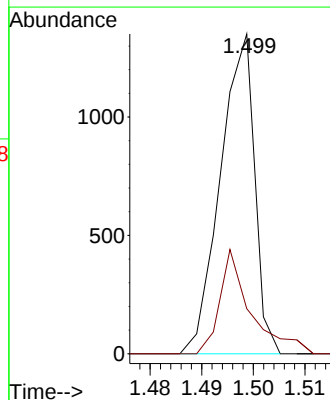
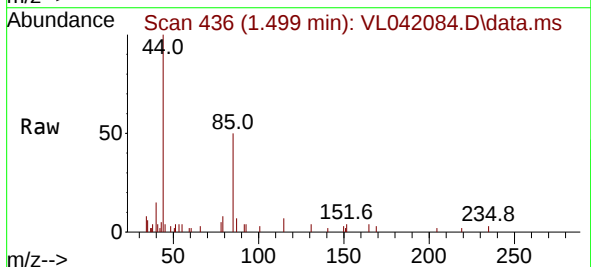
Instrument :
MSVOA_L
ClientSampleId :
SV4DL

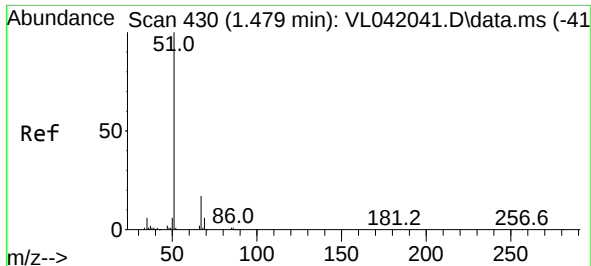
Tgt Ion: 49 Resp: 159302
Ion Ratio Lower Upper
49 100
128 40.7 21.6 64.8
130 51.2 27.8 83.4



#2
Dichlorodifluoromethane
Concen: 0.037 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.003 min
Lab File: VL042084.D
Acq: 03 Mar 2025 18:57

Tgt Ion: 85 Resp: 621
Ion Ratio Lower Upper
85 100
87 14.1 26.4 39.6#

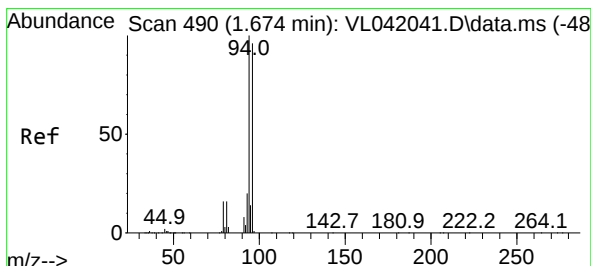
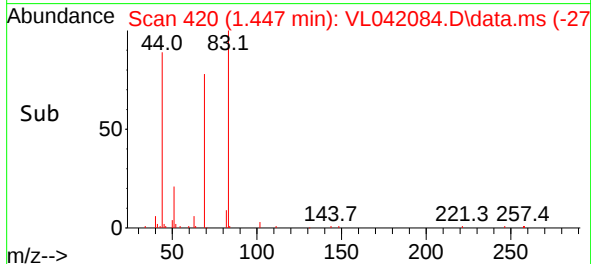
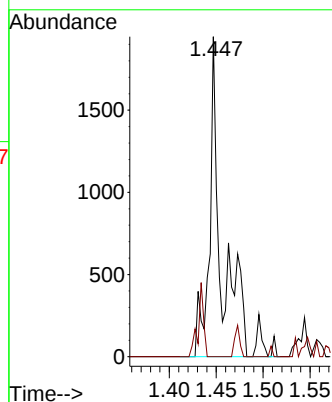
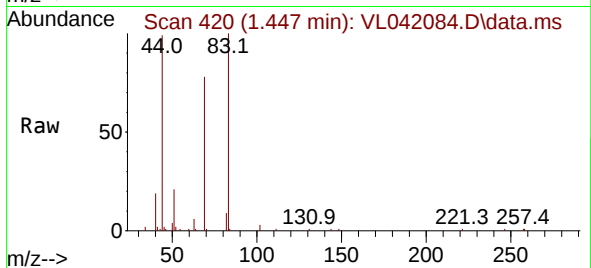




#3
Chlorodifluoromethane
Concen: 0.079 ppbv
RT: 1.447 min Scan# 41
Delta R.T. -0.033 min
Lab File: VL042084.D
Acq: 03 Mar 2025 18:57

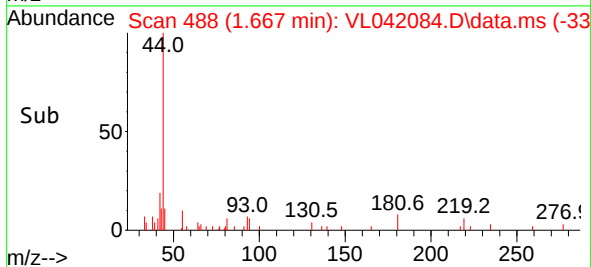
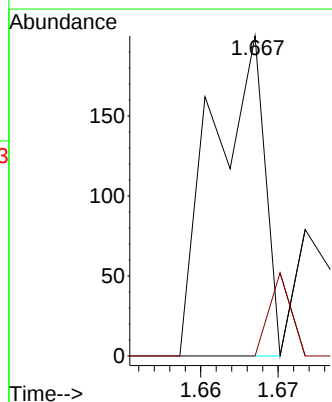
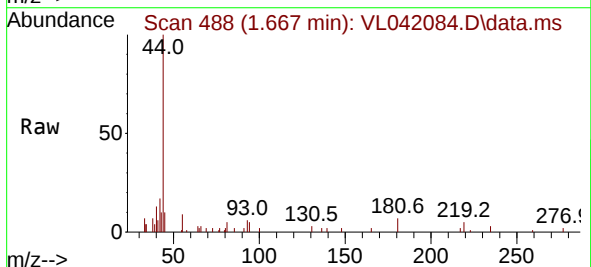
Instrument :
MSVOA_L
ClientSampleId :
SV4DL

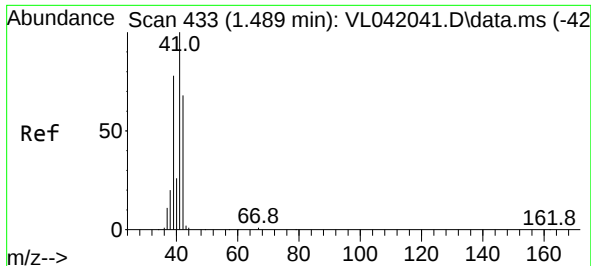
Tgt Ion: 51 Resp: 1820
Ion Ratio Lower Upper
51 100
67 10.1 13.7 20.5#



#6
Bromomethane
Concen: 0.034 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.007 min
Lab File: VL042084.D
Acq: 03 Mar 2025 18:57

Tgt Ion: 94 Resp: 93
Ion Ratio Lower Upper
94 100
96 0.0 76.5 114.7#





#9

Propene

Concen: 0.175 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.007 min

Lab File: VL042084.D

Acq: 03 Mar 2025 18:57

Instrument :

MSVOA_L

ClientSampleId :

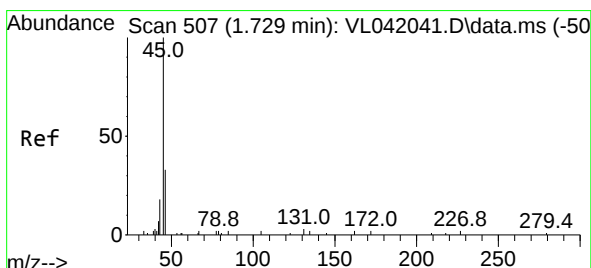
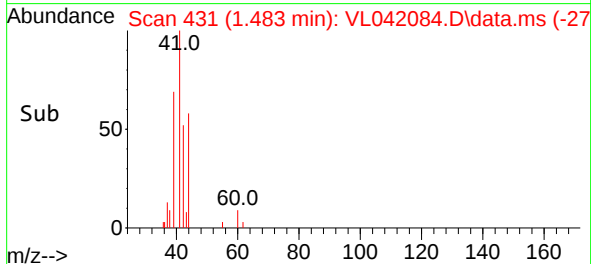
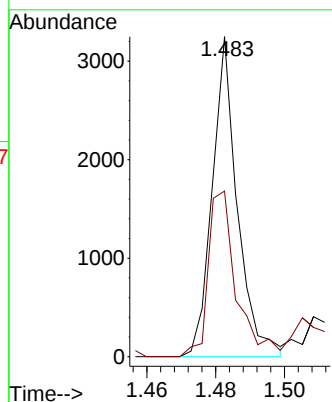
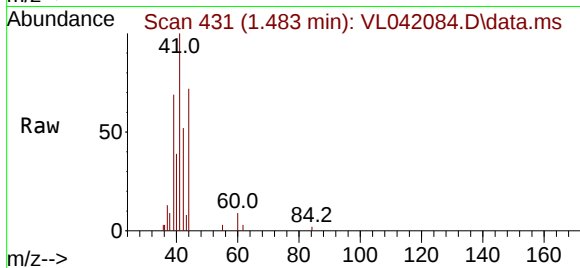
SV4DL

Tgt Ion: 41 Resp: 1650

Ion Ratio Lower Upper

41 100

42 81.2 55.8 83.6



#13

Ethanol

Concen: 14.749 ppbv

RT: 1.719 min Scan# 504

Delta R.T. -0.010 min

Lab File: VL042084.D

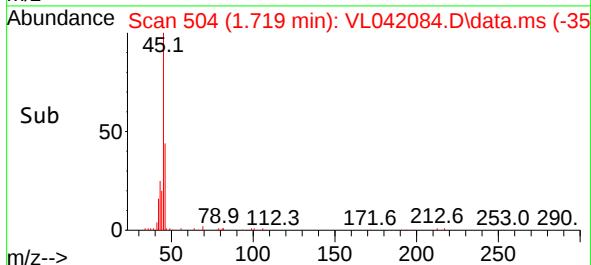
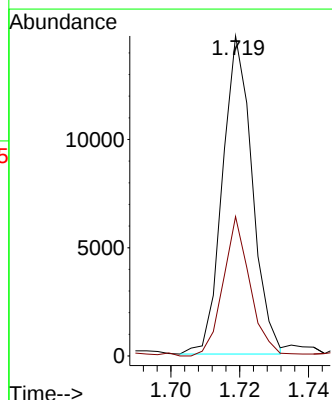
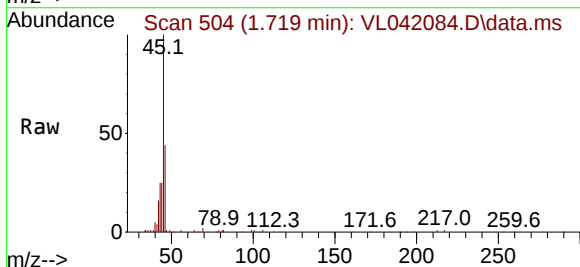
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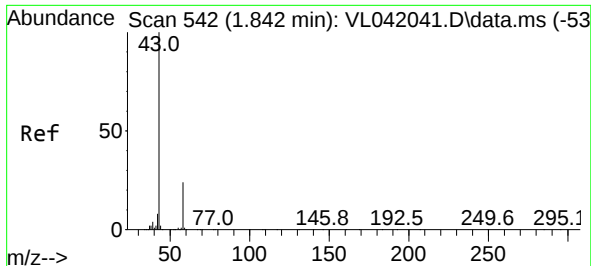
Tgt Ion: 45 Resp: 8831

Ion Ratio Lower Upper

45 100

46 41.9 17.1 68.3

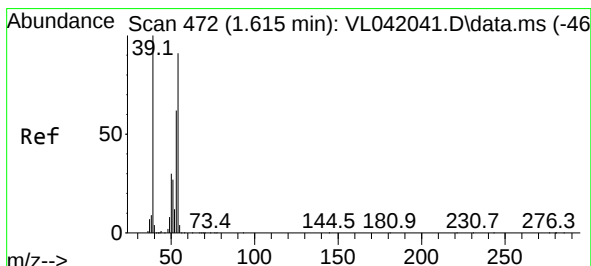
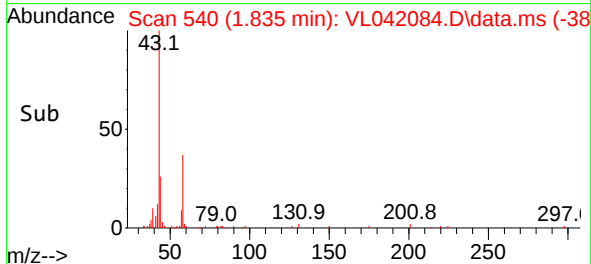
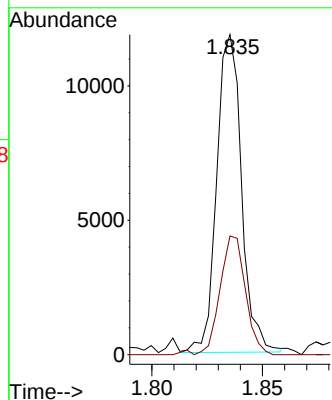
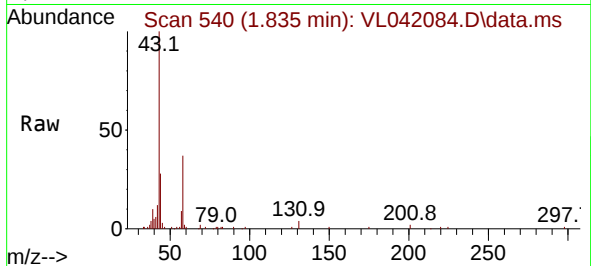




#15
Acetone
Concen: 0.656 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.007 min
Lab File: VL042084.D
Acq: 03 Mar 2025 18:57

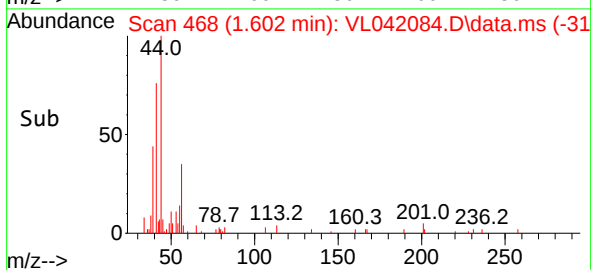
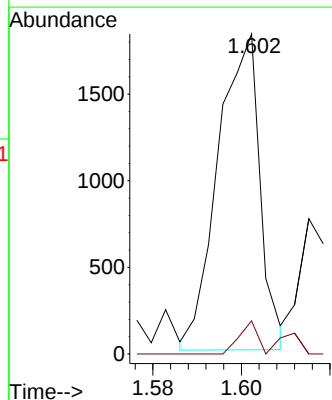
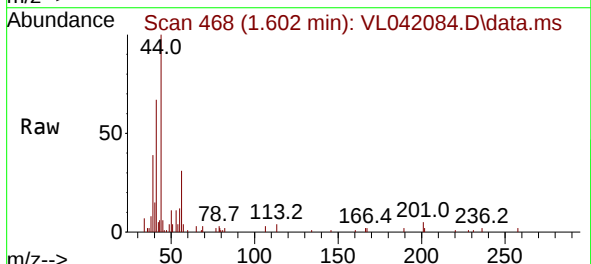
Instrument :
MSVOA_L
ClientSampleId :
SV4DL

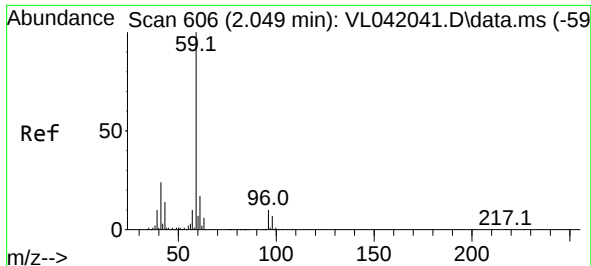
Tgt Ion: 43 Resp: 9225
Ion Ratio Lower Upper
43 100
58 38.5 20.7 31.1#



#16
1,3-Butadiene
Concen: 0.183 ppbv
RT: 1.602 min Scan# 468
Delta R.T. -0.013 min
Lab File: VL042084.D
Acq: 03 Mar 2025 18:57

Tgt Ion: 39 Resp: 1199
Ion Ratio Lower Upper
39 100
54 0.0 59.6 89.4#





#17

tert-Butyl alcohol

Concen: 0.068 ppbv

RT: 2.042 min Scan# 606

Delta R.T. -0.007 min

Lab File: VL042084.D

Acq: 03 Mar 2025 18:57

Instrument :

MSVOA_L

ClientSampleId :

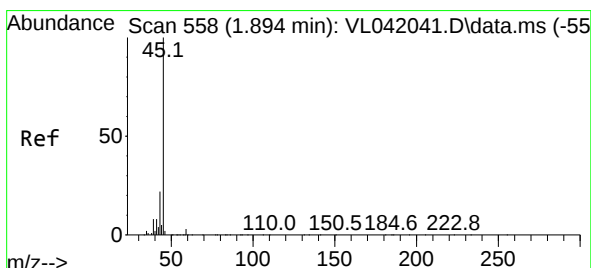
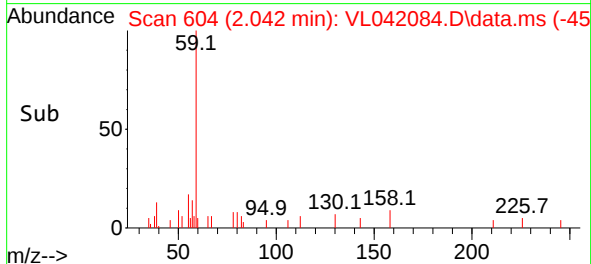
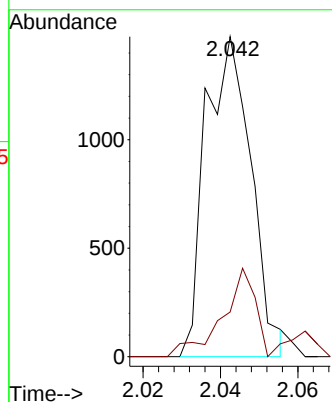
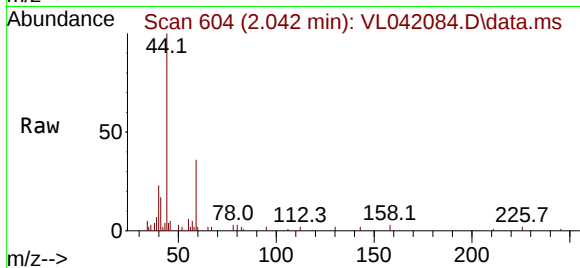
SV4DL

Tgt Ion: 59 Resp: 1203

Ion Ratio Lower Upper

59 100

57 25.0 9.3 13.9#



#19

Isopropyl Alcohol

Concen: 1.093 ppbv

RT: 1.719 min Scan# 504

Delta R.T. -0.175 min

Lab File: VL042084.D

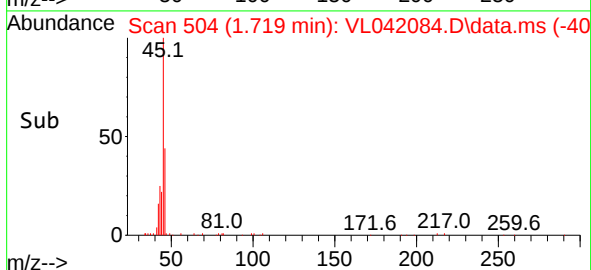
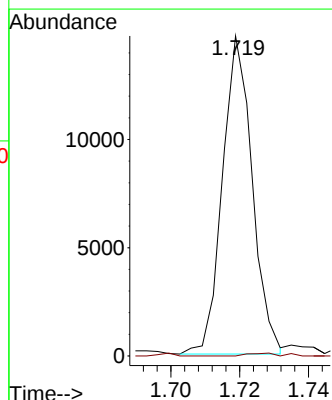
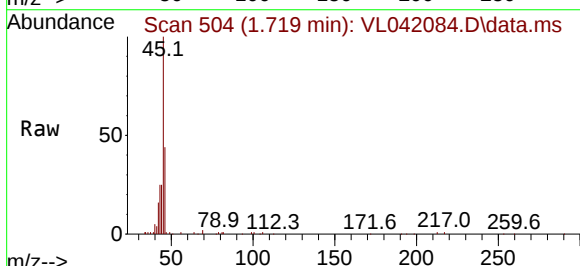
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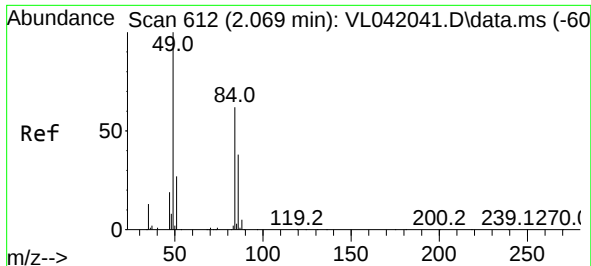
Tgt Ion: 45 Resp: 8831

Ion Ratio Lower Upper

45 100

58 40.3 35.3 52.9

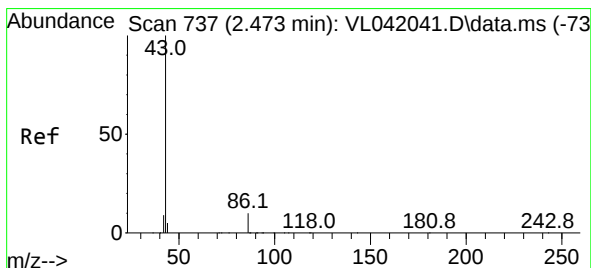
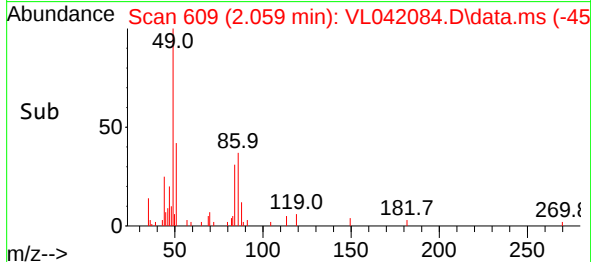
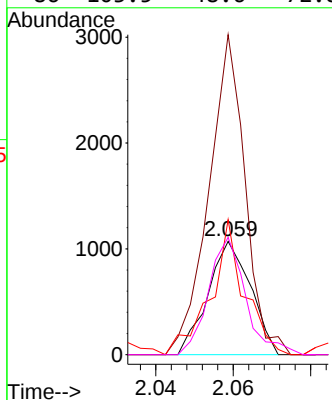
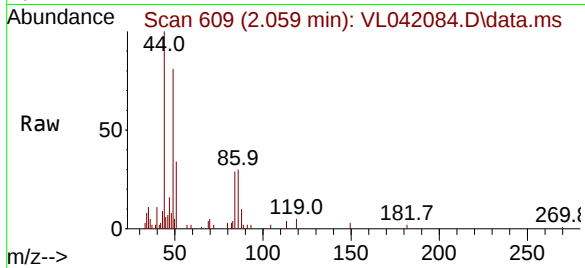




#20
Methylene Chloride
Concen: 0.154 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.010 min
Lab File: VL042084.D
Acq: 03 Mar 2025 18:57

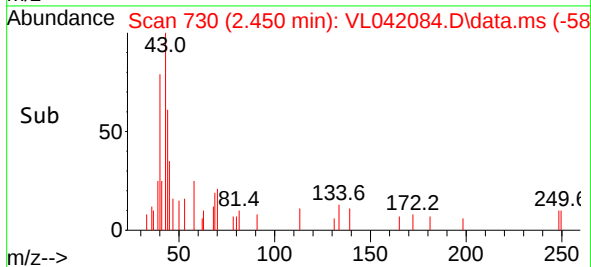
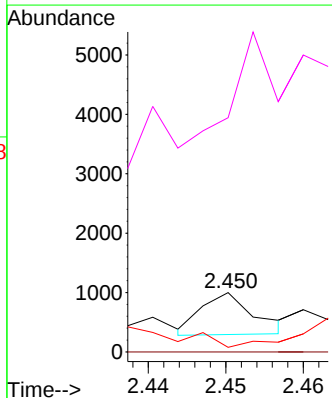
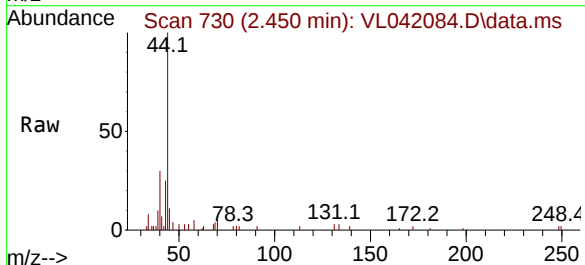
Instrument :
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SV4DL

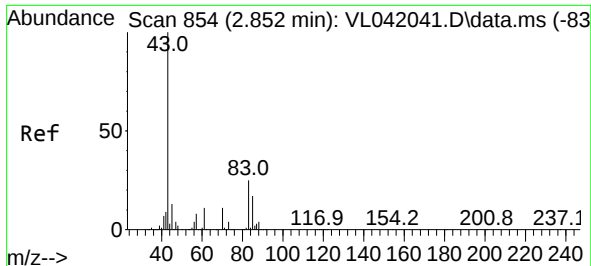
Tgt Ion:	84	Resp:	817
Ion	Ratio	Lower	Upper
84	100		
49	284.2	130.0	195.0#
51	114.5	37.4	56.0#
86	103.5	48.6	72.8#



#23
Vinyl Acetate
Concen: 0.034 ppbv
RT: 2.450 min Scan# 730
Delta R.T. -0.023 min
Lab File: VL042084.D
Acq: 03 Mar 2025 18:57

Tgt Ion:	43	Resp:	334
Ion	Ratio	Lower	Upper
43	100		
86	0.0	7.0	10.4#
42	0.0	7.6	11.4#
44	82.7	5.0	7.4#

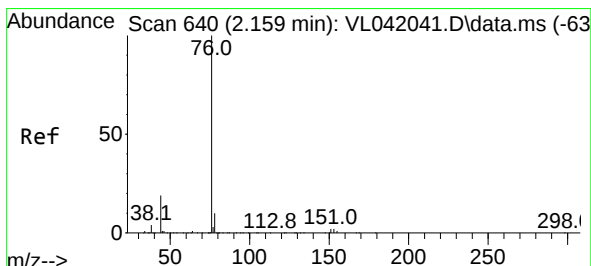
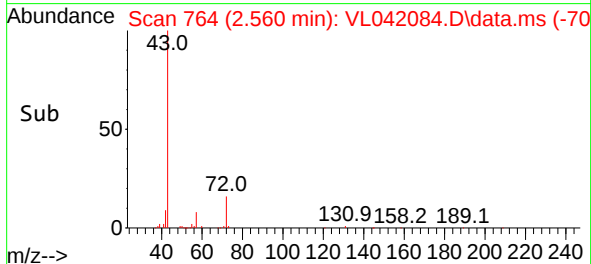
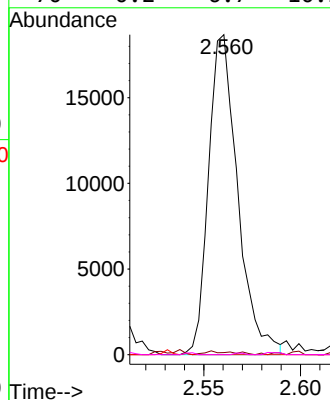
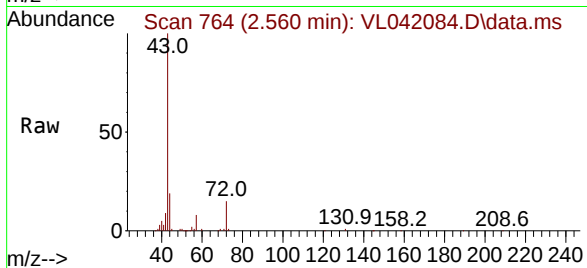




#25
Ethyl Acetate
Concen: 0.347 ppbv
RT: 2.560 min Scan# 70
Delta R.T. -0.291 min
Lab File: VL042084.D
Acq: 03 Mar 2025 18:57

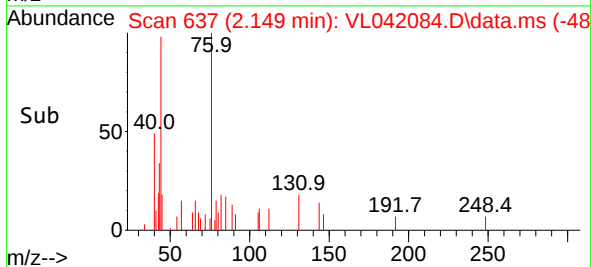
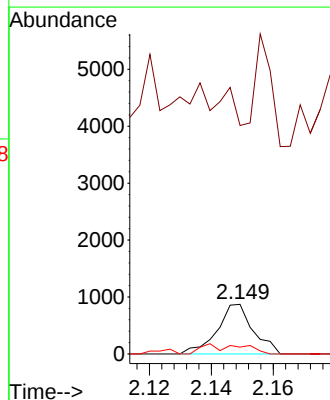
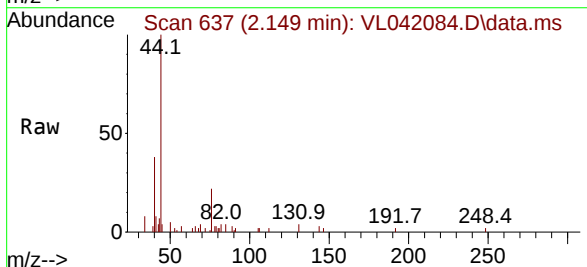
Instrument :
MSVOA_L
ClientSampleId :
SV4DL

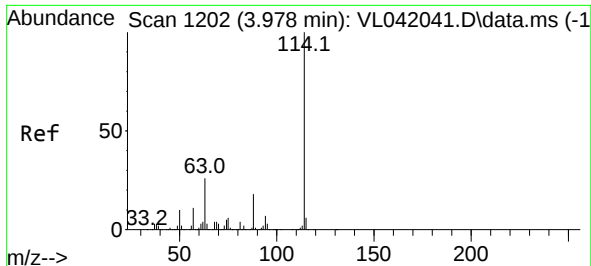
Tgt Ion: 43 Resp: 19550
Ion Ratio Lower Upper
43 100
45 0.0 8.1 12.1#
61 0.0 7.2 10.8#
70 0.2 6.7 10.1#



#27
Carbon Disulfide
Concen: 0.046 ppbv
RT: 2.149 min Scan# 637
Delta R.T. -0.010 min
Lab File: VL042084.D
Acq: 03 Mar 2025 18:57

Tgt Ion: 76 Resp: 703
Ion Ratio Lower Upper
76 100
44 1680.1 16.2 24.2#
78 28.0 9.4 14.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.026 min

Lab File: VL042084.D

Acq: 03 Mar 2025 18:57

Instrument :

MSVOA_L

ClientSampleId :

SV4DL

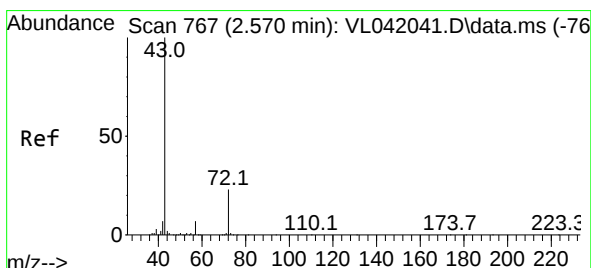
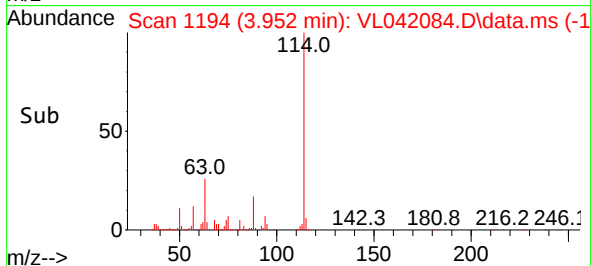
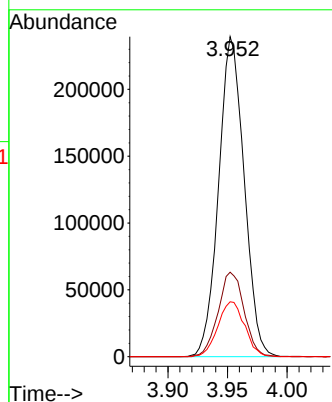
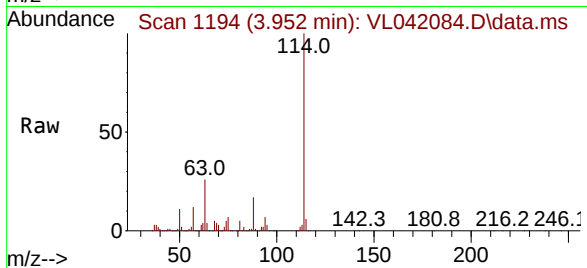
Tgt Ion:114 Resp: 356251

Ion Ratio Lower Upper

114 100

63 26.9 20.1 30.1

88 18.0 14.3 21.5



#34

2-Butanone

Concen: 0.704 ppbv

RT: 2.560 min Scan# 764

Delta R.T. -0.010 min

Lab File: VL042084.D

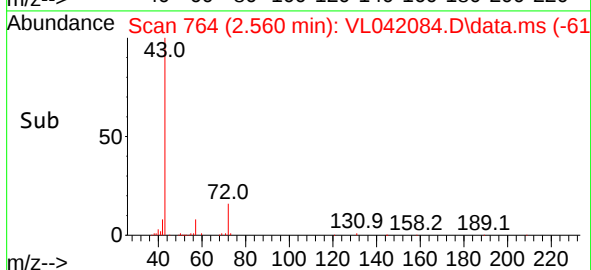
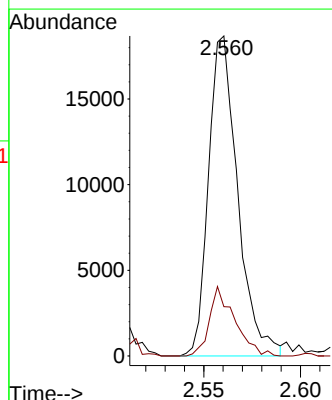
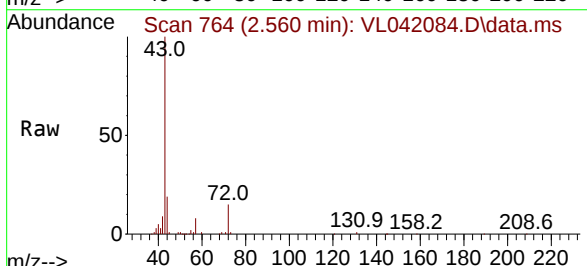
Acq: 03 Mar 2025 18:57

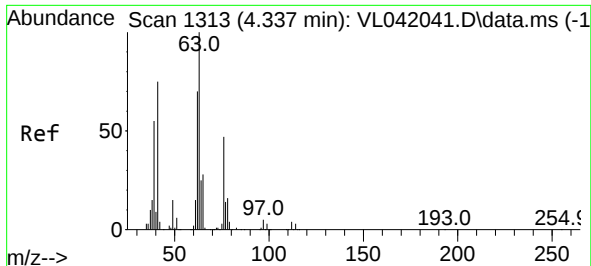
Tgt Ion: 43 Resp: 19550

Ion Ratio Lower Upper

43 100

72 19.1 18.5 27.7





#39

1,2-Dichloropropane

Concen: 6.754 ppbv

RT: 3.952 min Scan# 1119

Delta R.T. -0.385 min

Lab File: VL042084.D

Acq: 03 Mar 2025 18:57

Instrument :

MSVOA_L

ClientSampleId :

SV4DL

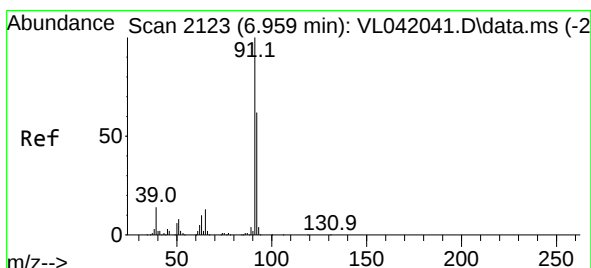
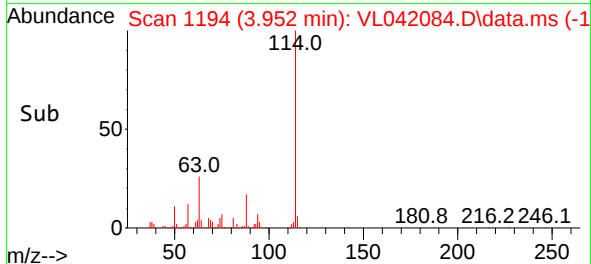
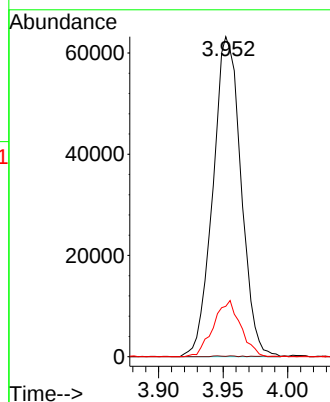
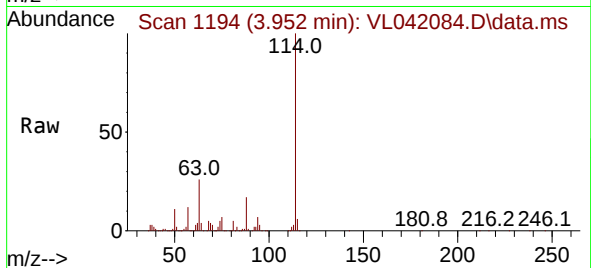
Tgt Ion: 63 Resp: 95602

Ion Ratio Lower Upper

63 100

41 0.1 60.1 90.1#

62 15.7 55.8 83.8#



#53

Toluene

Concen: 0.057 ppbv

RT: 6.923 min Scan# 2112

Delta R.T. -0.036 min

Lab File: VL042084.D

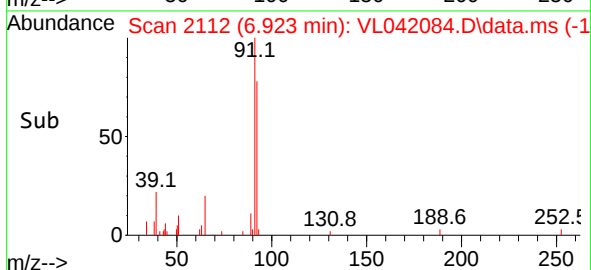
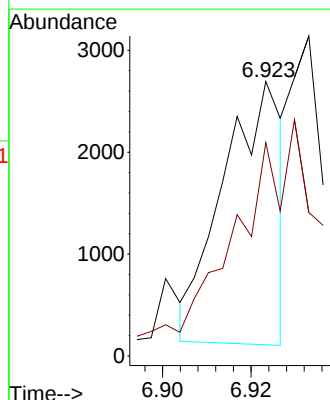
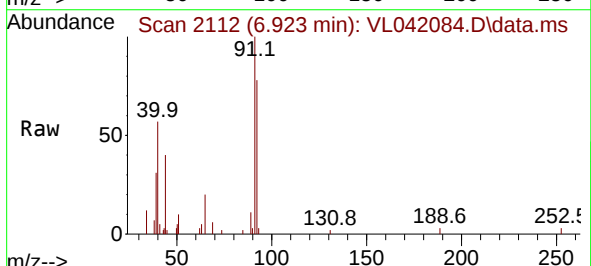
Acq: 03 Mar 2025 18:57

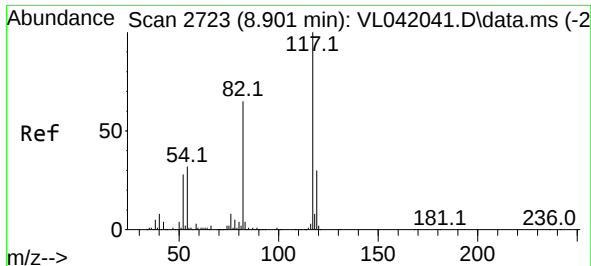
Tgt Ion: 91 Resp: 2355

Ion Ratio Lower Upper

91 100

92 0.0 49.0 73.6#

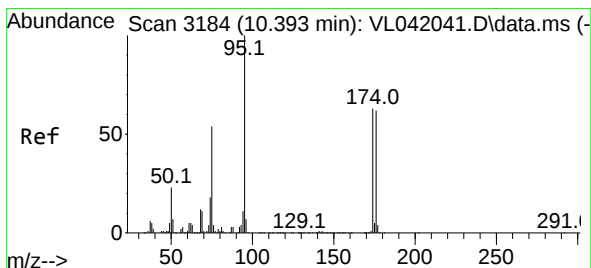
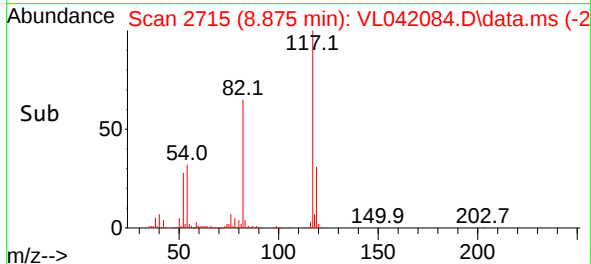
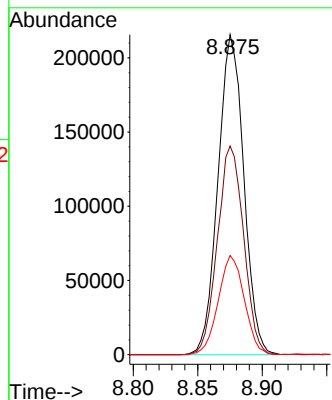
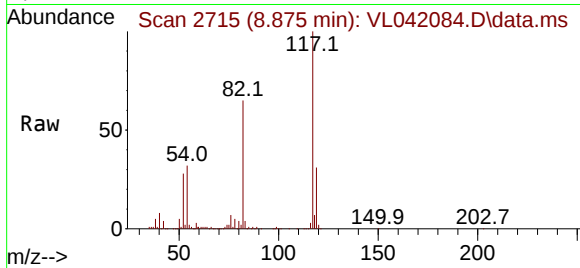




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 21
Delta R.T. -0.026 min
Lab File: VL042084.D
Acq: 03 Mar 2025 18:57

Instrument :
MSVOA_L
ClientSampleId :
SV4DL

Tgt Ion:117 Resp: 299448
Ion Ratio Lower Upper
117 100
82 66.4 55.0 82.6
119 31.3 25.9 38.9



#68
1-Bromo-4-Fluorobenzene
Concen: 9.468 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.023 min
Lab File: VL042084.D
Acq: 03 Mar 2025 18:57

Tgt Ion: 95 Resp: 218112
Ion Ratio Lower Upper
95 100
174 62.8 51.8 77.6
175 4.5 3.9 5.9

