

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060425\
 Data File : VX046494.D
 Acq On : 04 Jun 2025 12:41
 Operator : JC/MD
 Sample : Q2168-12DL 10X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 C2DL

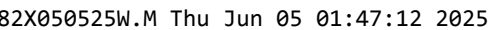
Quant Time: Jun 05 01:46:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 06 07:12:22 2025
 Response via : Initial Calibration

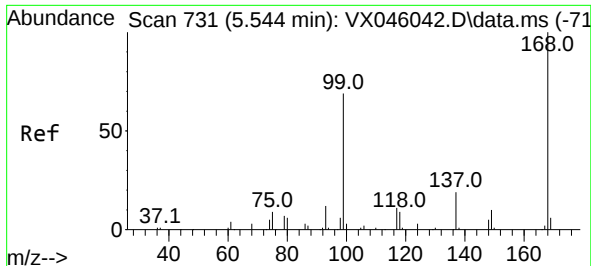
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.550	168	65649	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	131694	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	125825	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	59114	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	62901	51.394	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 102.780%			
35) Dibromofluoromethane	5.379	113	46816	49.366	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.740%			
50) Toluene-d8	8.647	98	163768	49.894	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.780%			
62) 4-Bromofluorobenzene	11.079	95	67912	53.939	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 107.880%			
Target Compounds					Qvalue	
6) Chloroethane	1.660	64	122	0.252	ug/l #	44
11) Tert butyl alcohol	2.977	59	361	2.101	ug/l #	72
13) Acrolein	2.239	56	163	0.833	ug/l #	15
16) Acetone	2.380	43	7281	14.837	ug/l	98
18) Methyl Acetate	2.709	43	1945	1.708	ug/l	94
20) Methylene Chloride	2.782	84	588	0.625	ug/l #	67
25) 2-Butanone	4.617	43	1169	1.641	ug/l #	53
36) 1,1-Dichloropropene	5.544	75	6355	4.988	ug/l #	51
38) Carbon Tetrachloride	5.550	117	7591	5.302	ug/l #	18
40) Benzene	6.031	78	254641	68.228	ug/l	99
42) 1,2-Dichloroethane	6.031	62	2667	1.656	ug/l #	78
48) Methyl methacrylate	7.610	41	406	0.331	ug/l #	43
51) 4-Methyl-2-Pentanone	8.549	43	3528	2.213	ug/l #	39
52) Toluene	8.714	92	103140	45.068	ug/l	100
53) t-1,3-Dichloropropene	8.714	75	1456	1.136	ug/l #	1
54) cis-1,3-Dichloropropene	8.549	75	1563	1.104	ug/l #	62
55) 1,1,2-Trichloroethane	9.019	97	553	0.613	ug/l #	15
59) 2-Hexanone	9.384	43	1223	1.037	ug/l #	28
67) Ethyl Benzene	10.195	91	8751	1.803	ug/l	96
68) m/p-Xylenes	10.299	106	18335	10.327	ug/l	98
69) o-Xylene	10.640	106	11019	6.366	ug/l	99
70) Styrene	10.659	104	3138	1.107	ug/l #	46
76) 1,2,3-Trichloropropane	11.079	75	38567	27.104	ug/l #	36
80) 1,3,5-Trimethylbenzene	11.451	105	2331	0.606	ug/l	93
81) trans-1,4-Dichloro-2-b...	11.079	75	38567	88.244	ug/l #	1
84) 1,2,4-Trimethylbenzene	11.750	105	7711	1.980	ug/l	81
90) Hexachloroethane	12.408	117	1283	1.855	ug/l #	19
95) Naphthalene	13.774	128	36473	8.848	ug/l	98

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

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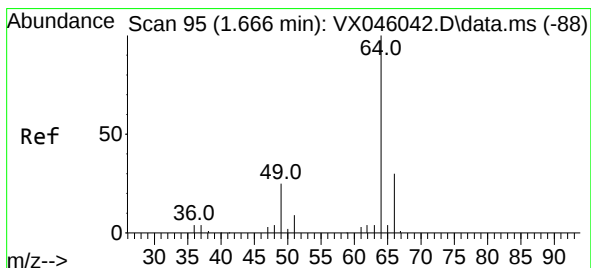
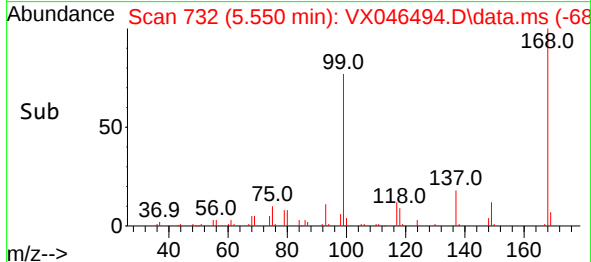
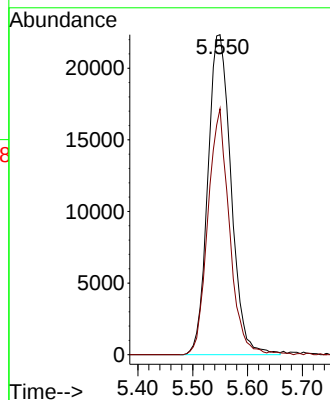
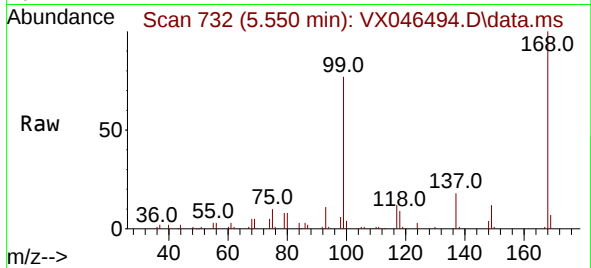




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX046494.D
Acq: 04 Jun 2025 12:41

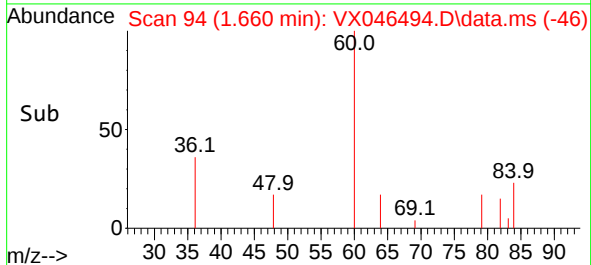
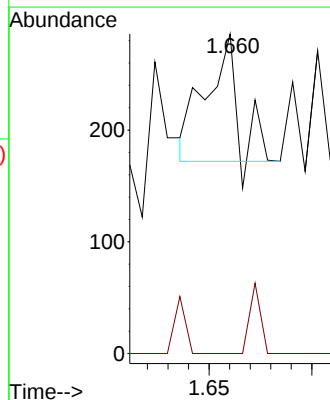
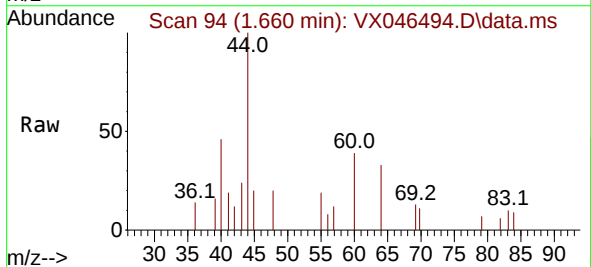
Instrument :
MSVOA_X
ClientSampleId :
C2DL

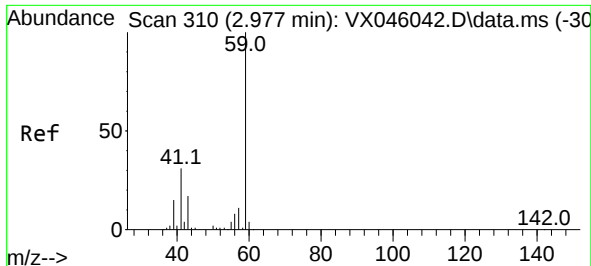
Tgt Ion:168 Resp: 65649
Ion Ratio Lower Upper
168 100
99 76.8 54.9 82.3



#6
Chloroethane
Concen: 0.252 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX046494.D
Acq: 04 Jun 2025 12:41

Tgt Ion: 64 Resp: 122
Ion Ratio Lower Upper
64 100
66 0.0 24.3 36.5#





#11

Tert butyl alcohol

Concen: 2.101 ug/l

RT: 2.977 min Scan# 310

Delta R.T. -0.000 min

Lab File: VX046494.D

Acq: 04 Jun 2025 12:41

Instrument :

MSVOA_X

ClientSampleId :

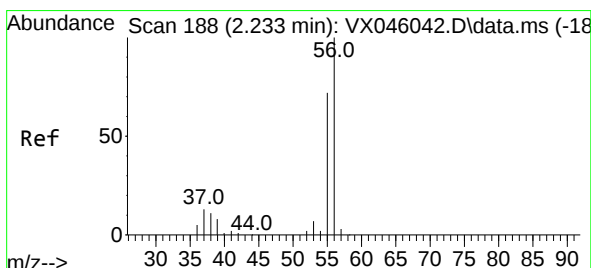
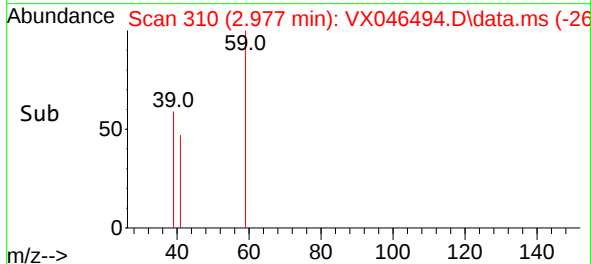
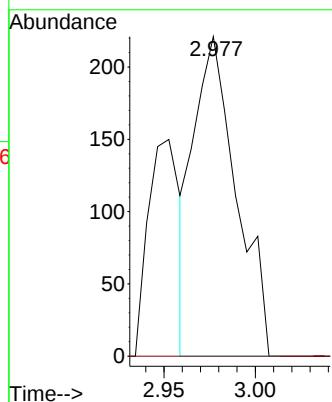
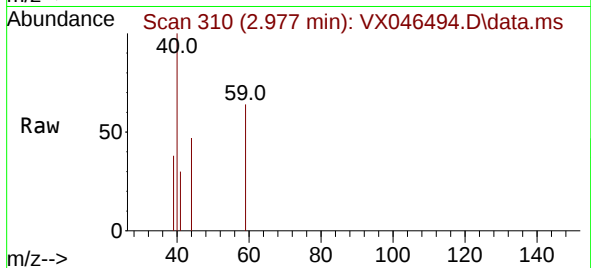
C2DL

Tgt Ion: 59 Resp: 361

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#



#13

Acrolein

Concen: 0.833 ug/l

RT: 2.239 min Scan# 189

Delta R.T. 0.006 min

Lab File: VX046494.D

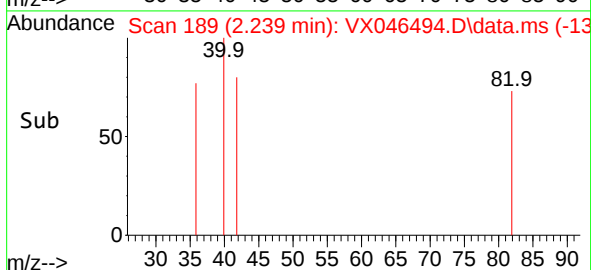
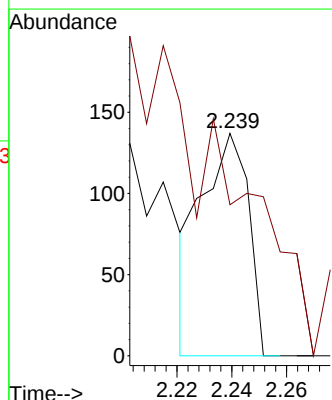
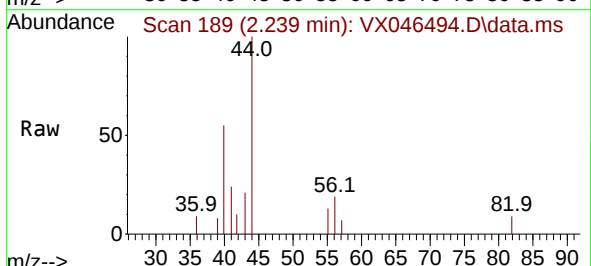
Acq: 04 Jun 2025 12:41

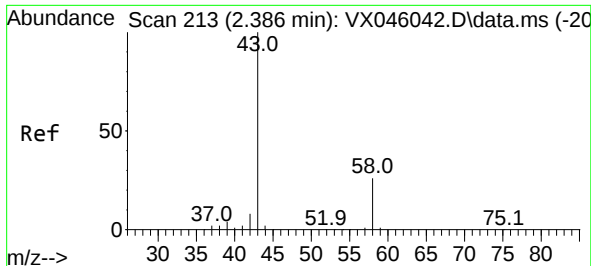
Tgt Ion: 56 Resp: 163

Ion Ratio Lower Upper

56 100

55 0.0 56.2 84.4#

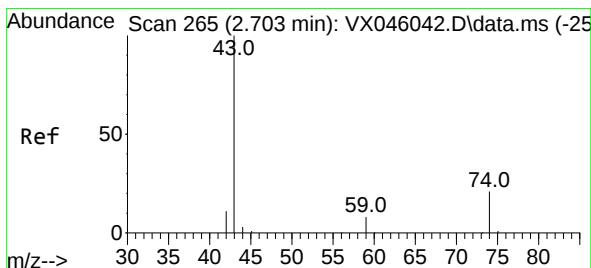
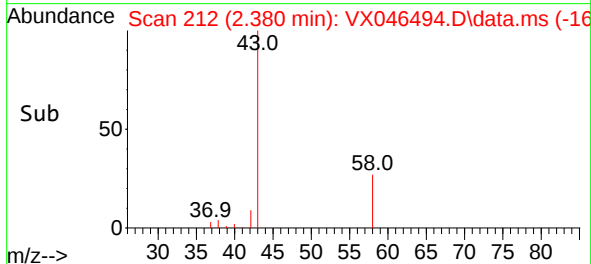
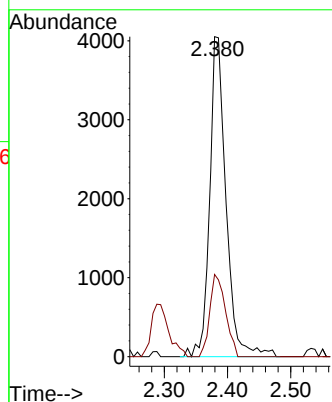
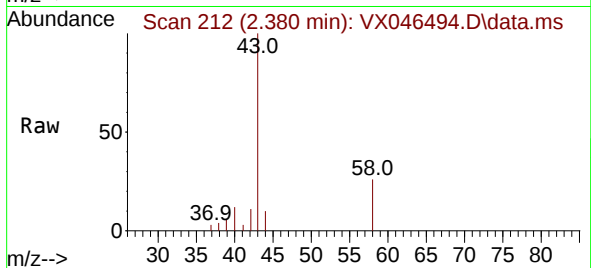




#16
Acetone
Concen: 14.837 ug/l
RT: 2.380 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX046494.D
Acq: 04 Jun 2025 12:41

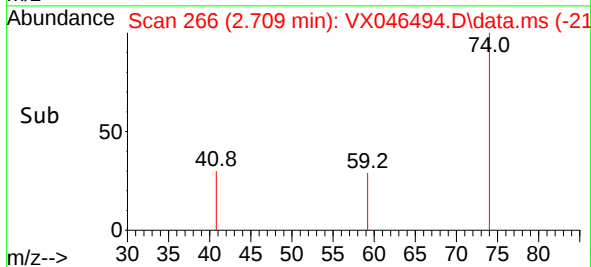
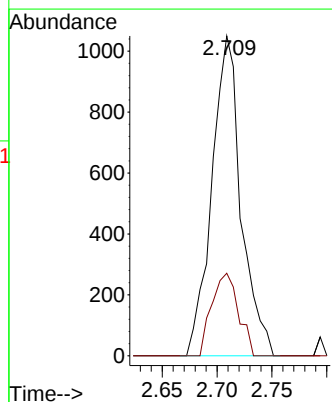
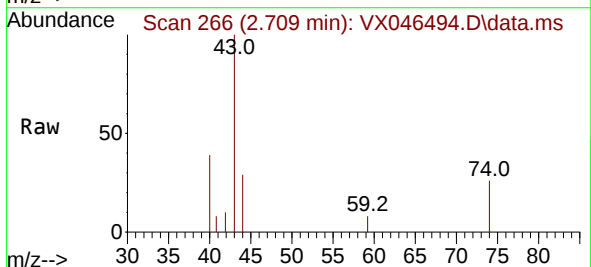
Instrument :
MSVOA_X
ClientSampleId :
C2DL

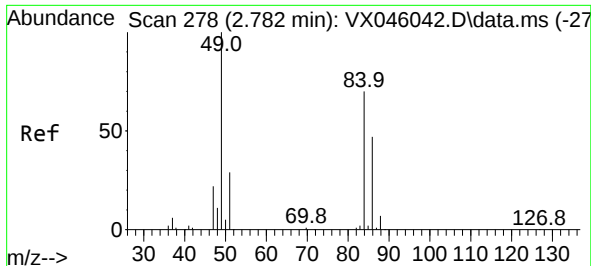
Tgt Ion: 43 Resp: 7281
Ion Ratio Lower Upper
43 100
58 25.7 21.2 31.8



#18
Methyl Acetate
Concen: 1.708 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX046494.D
Acq: 04 Jun 2025 12:41

Tgt Ion: 43 Resp: 1945
Ion Ratio Lower Upper
43 100
74 23.6 16.7 25.1

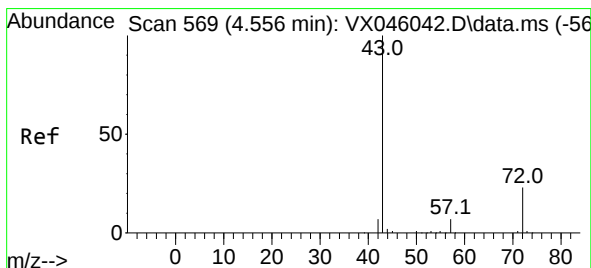
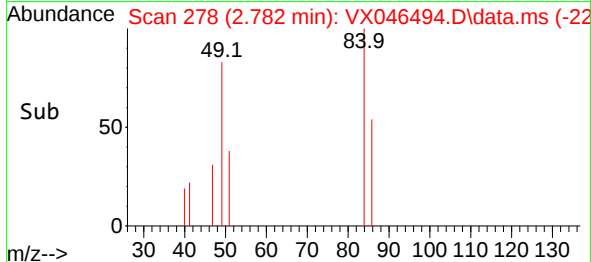
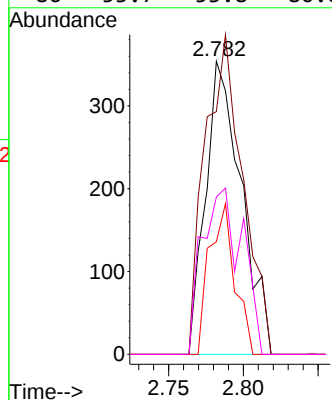
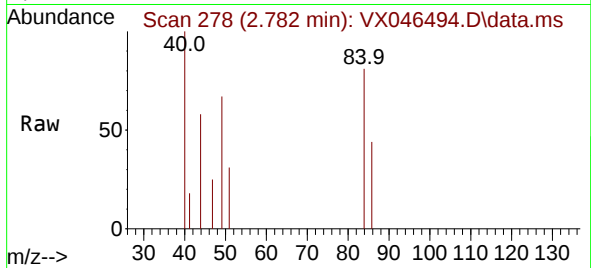




#20
Methylene Chloride
Concen: 0.625 ug/l
RT: 2.782 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX046494.D
Acq: 04 Jun 2025 12:41

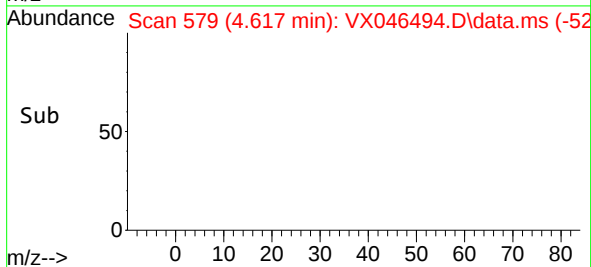
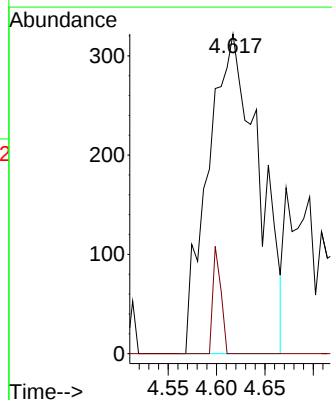
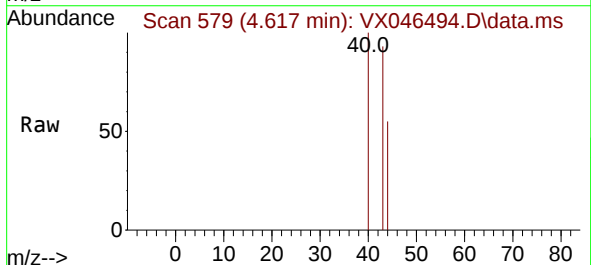
Instrument :
MSVOA_X
ClientSampleId :
C2DL

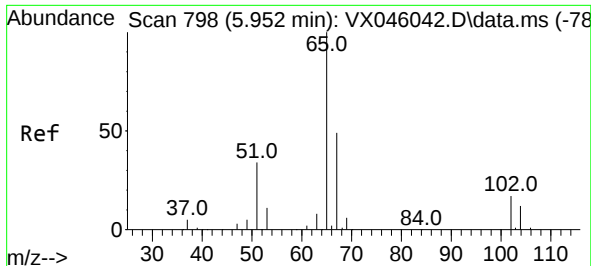
Tgt Ion:	84	Resp:	588
Ion	Ratio	Lower	Upper
84	100		
49	82.8	113.9	170.9#
51	38.4	33.5	50.3
86	53.7	53.8	80.8#



#25
2-Butanone
Concen: 1.641 ug/l
RT: 4.617 min Scan# 579
Delta R.T. 0.061 min
Lab File: VX046494.D
Acq: 04 Jun 2025 12:41

Tgt Ion:	43	Resp:	1169
Ion	Ratio	Lower	Upper
43	100		
72	0.0	18.4	27.6#





#33

1,2-Dichloroethane-d4

Concen: 51.394 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX046494.D

Acq: 04 Jun 2025 12:41

Instrument :

MSVOA_X

ClientSampleId :

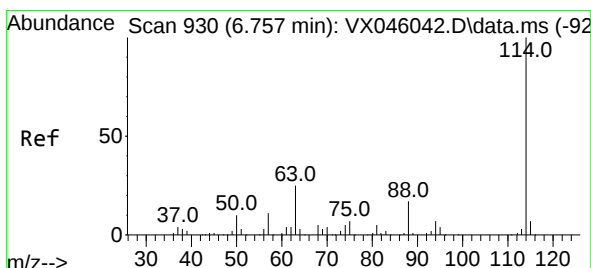
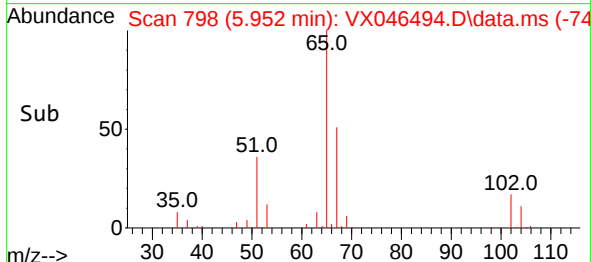
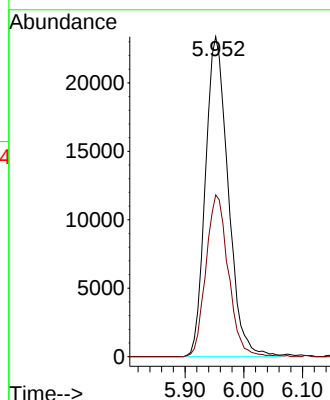
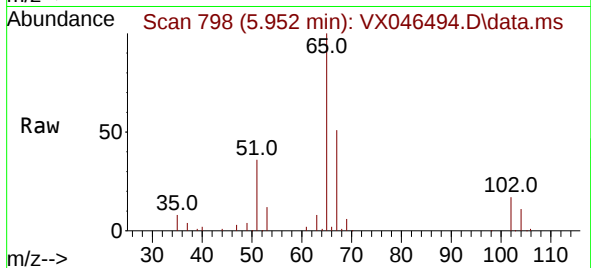
C2DL

Tgt Ion: 65 Resp: 62901

Ion Ratio Lower Upper

65 100

67 49.8 0.0 99.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX046494.D

Acq: 04 Jun 2025 12:41

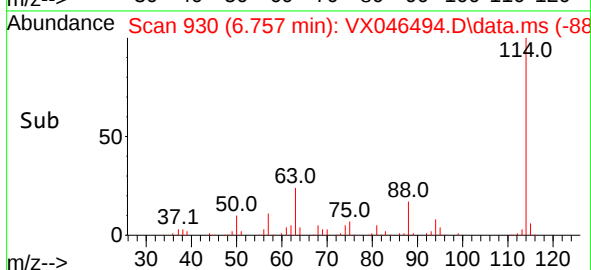
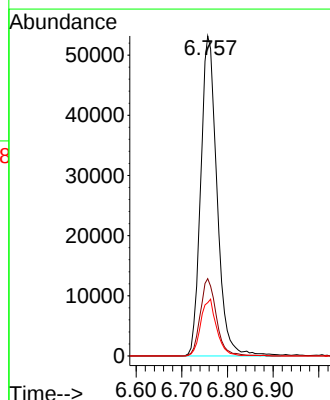
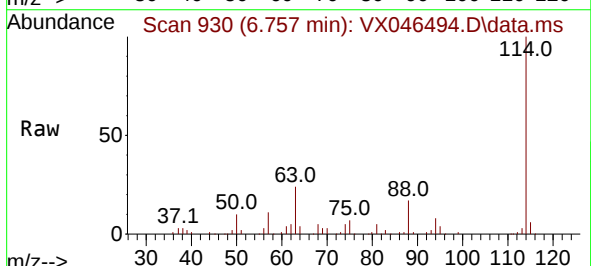
Tgt Ion: 114 Resp: 131694

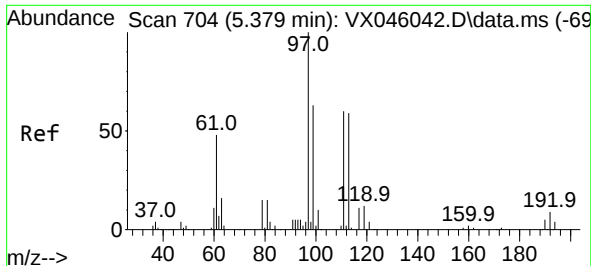
Ion Ratio Lower Upper

114 100

63 24.1 0.0 49.2

88 16.6 0.0 33.6

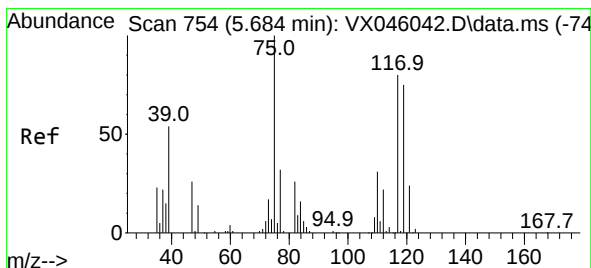
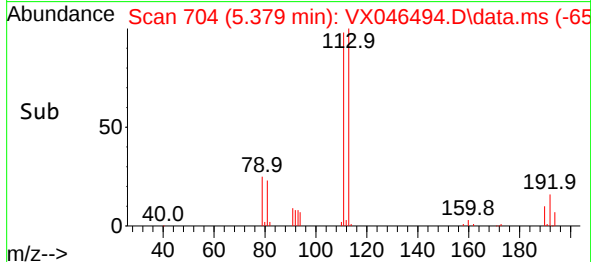
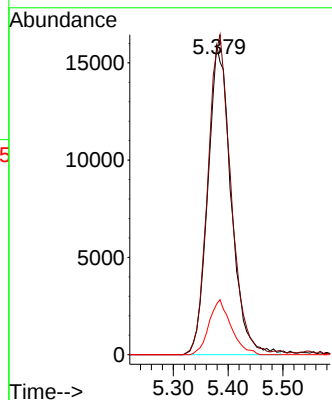
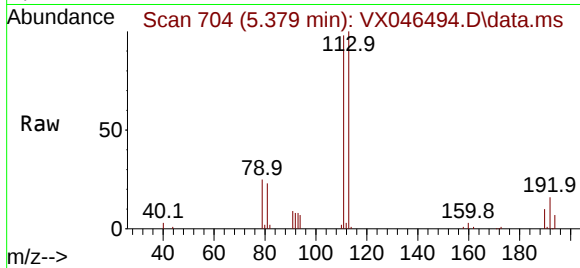




#35
Dibromofluoromethane
Concen: 49.366 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX046494.D
Acq: 04 Jun 2025 12:41

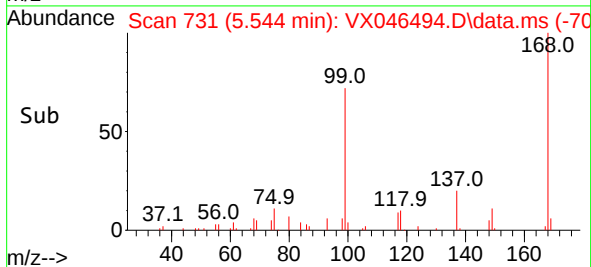
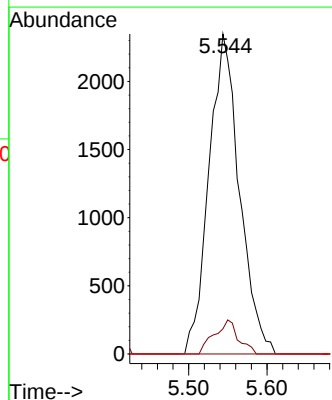
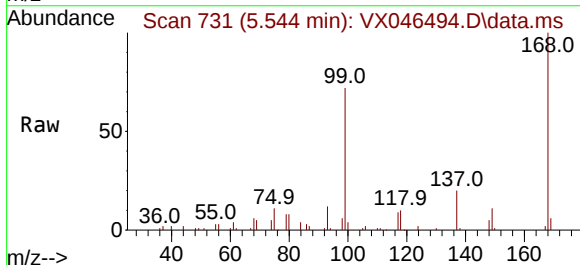
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MSVOA_X
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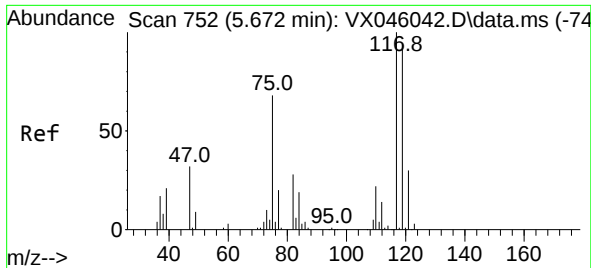
Tgt Ion:113 Resp: 46816
Ion Ratio Lower Upper
113 100
111 103.0 83.1 124.7
192 16.8 13.3 19.9



#36
1,1-Dichloropropene
Concen: 4.988 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.140 min
Lab File: VX046494.D
Acq: 04 Jun 2025 12:41

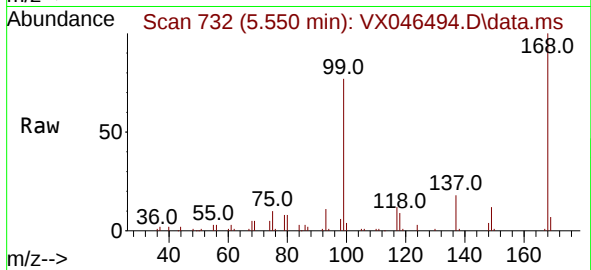
Tgt Ion: 75 Resp: 6355
Ion Ratio Lower Upper
75 100
110 8.4 16.3 48.9#
77 0.0 24.3 36.5#



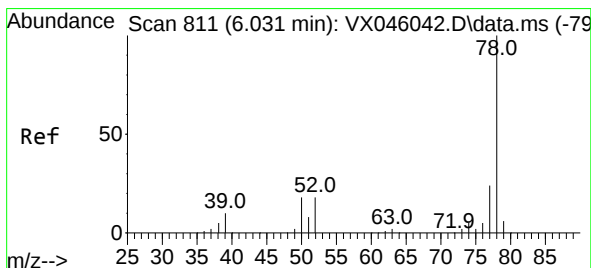
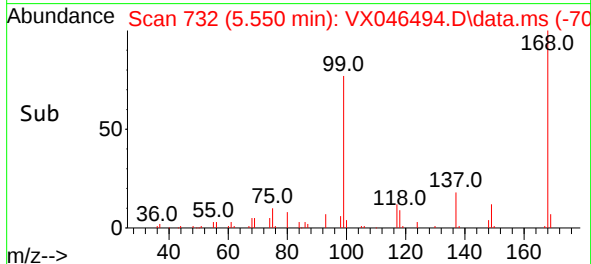
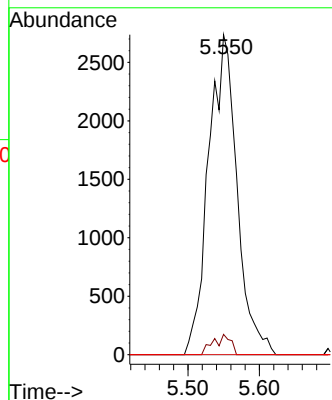


#38
Carbon Tetrachloride
Concen: 5.302 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.122 min
Lab File: VX046494.D
Acq: 04 Jun 2025 12:41

Instrument :
MSVOA_X
ClientSampleId :
C2DL

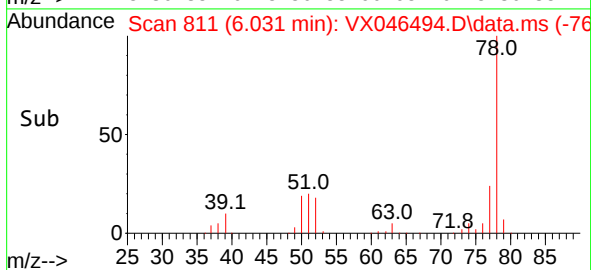
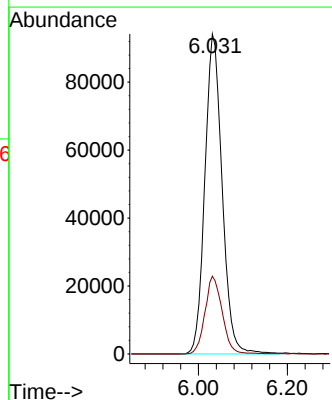
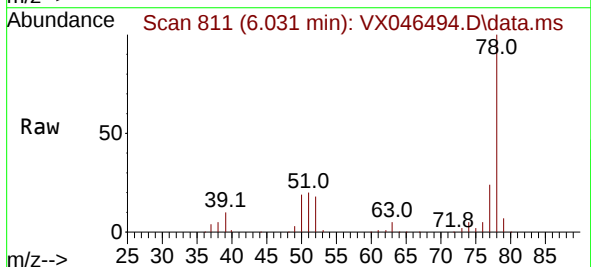


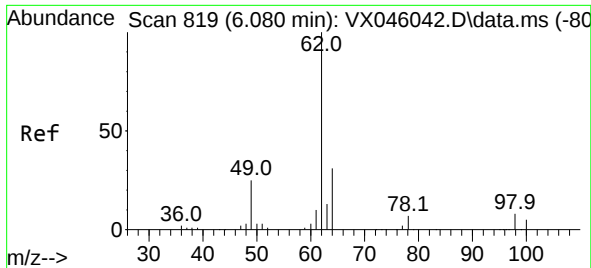
Tgt Ion:117 Resp: 7591
Ion Ratio Lower Upper
117 100
119 6.4 75.2 112.8#
121 0.0 24.2 36.4#



#40
Benzene
Concen: 68.228 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX046494.D
Acq: 04 Jun 2025 12:41

Tgt Ion: 78 Resp: 254641
Ion Ratio Lower Upper
78 100
77 24.3 19.0 28.4

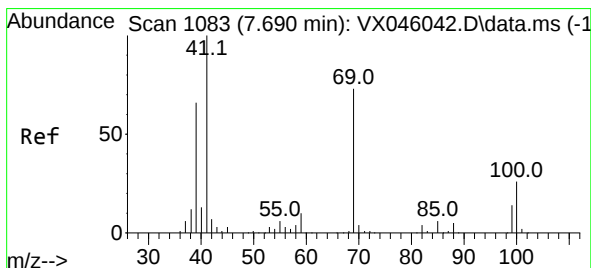
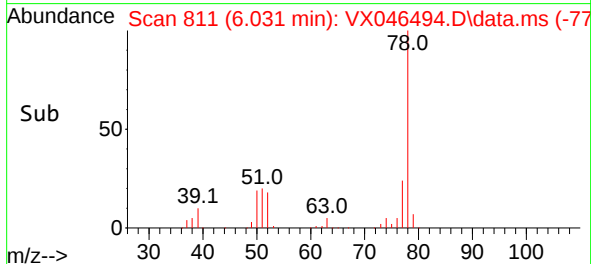
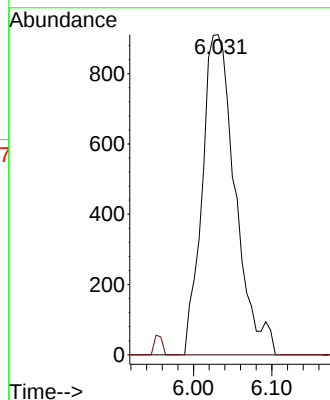
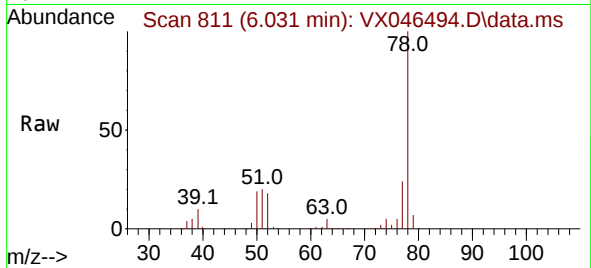




#42
1,2-Dichloroethane
Concen: 1.656 ug/l
RT: 6.031 min Scan# 81
Delta R.T. -0.049 min
Lab File: VX046494.D
Acq: 04 Jun 2025 12:41

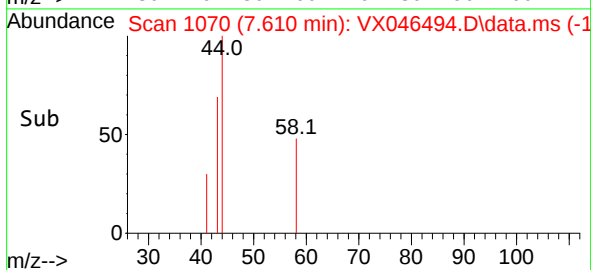
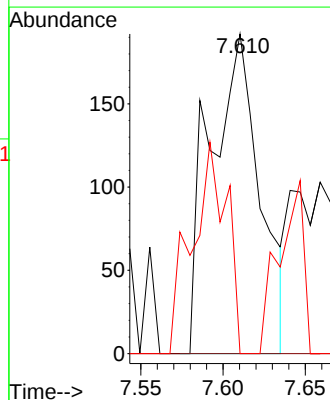
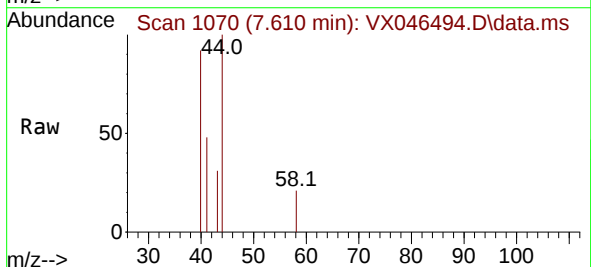
Instrument :
MSVOA_X
ClientSampleId :
C2DL

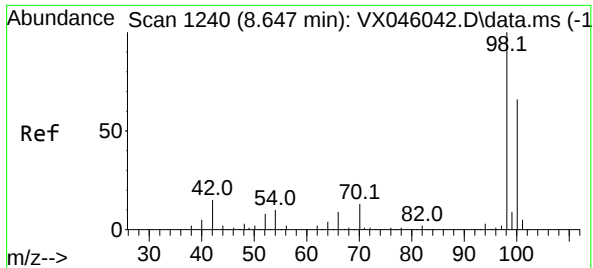
Tgt Ion: 62 Resp: 2667
Ion Ratio Lower Upper
62 100
98 0.0 0.0 15.2



#48
Methyl methacrylate
Concen: 0.331 ug/l
RT: 7.610 min Scan# 1070
Delta R.T. -0.079 min
Lab File: VX046494.D
Acq: 04 Jun 2025 12:41

Tgt Ion: 41 Resp: 406
Ion Ratio Lower Upper
41 100
69 0.0 58.5 87.7#
39 46.1 51.7 77.5#

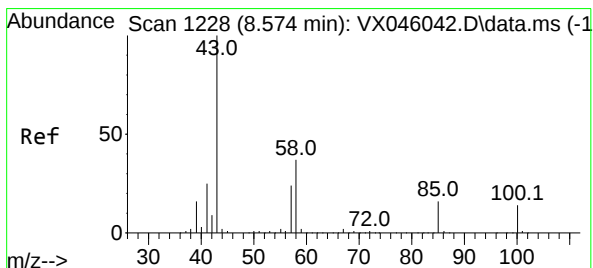
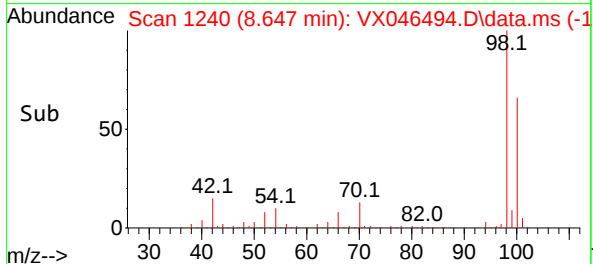
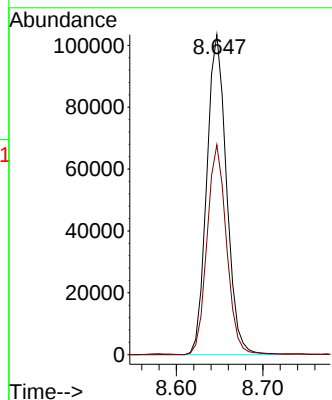
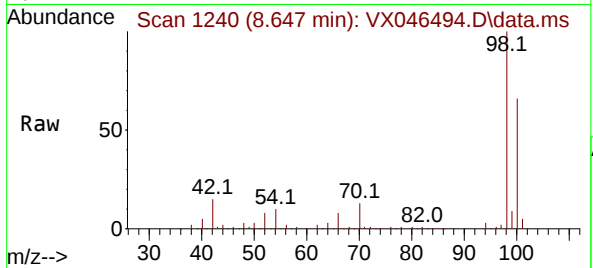




#50
Toluene-d8
Concen: 49.894 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX046494.D
Acq: 04 Jun 2025 12:41

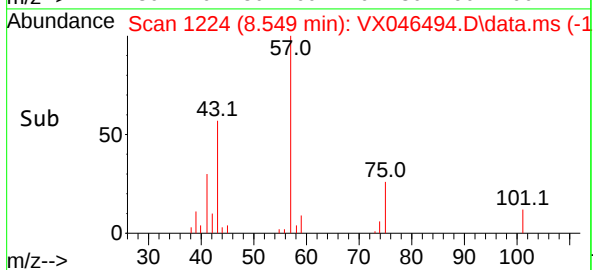
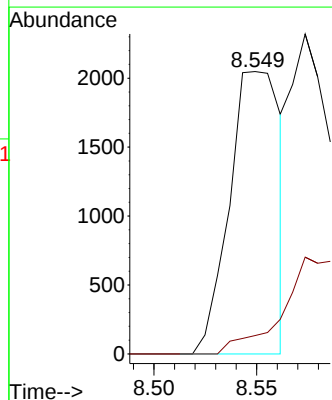
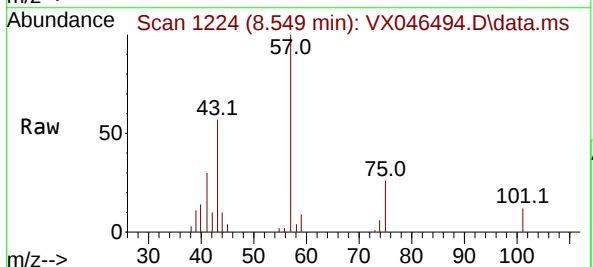
Instrument :
MSVOA_X
ClientSampleId :
C2DL

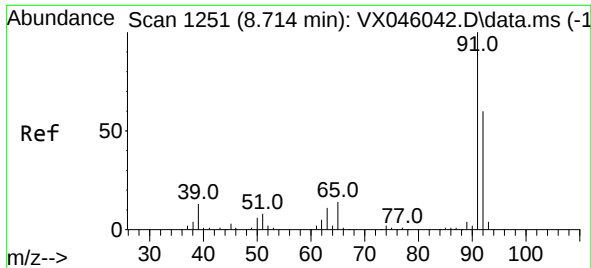
Tgt Ion: 98 Resp: 163768
Ion Ratio Lower Upper
98 100
100 64.5 53.5 80.3



#51
4-Methyl-2-Pentanone
Concen: 2.213 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. -0.024 min
Lab File: VX046494.D
Acq: 04 Jun 2025 12:41

Tgt Ion: 43 Resp: 3528
Ion Ratio Lower Upper
43 100
58 0.0 28.9 43.3#

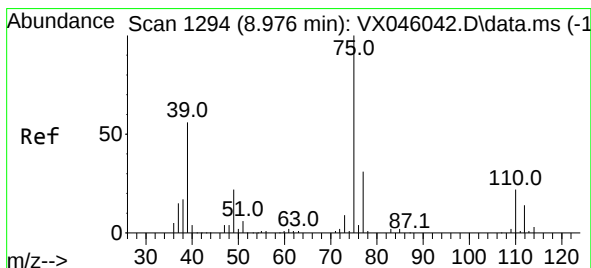
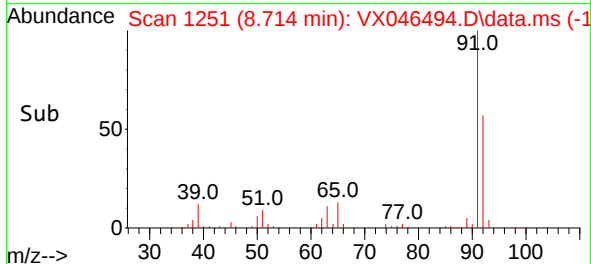
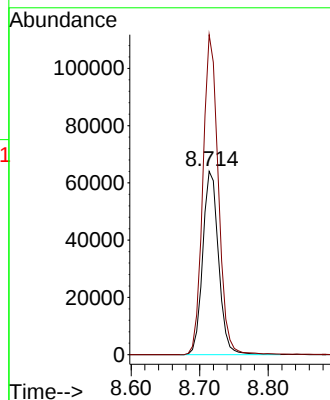
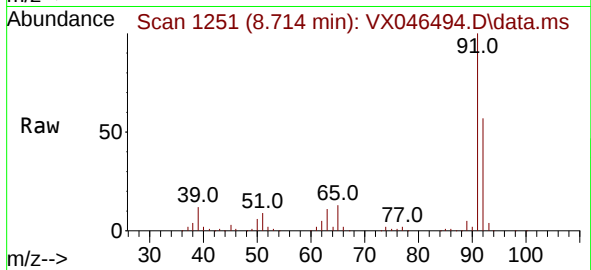




#52
Toluene
Concen: 45.068 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX046494.D
Acq: 04 Jun 2025 12:41

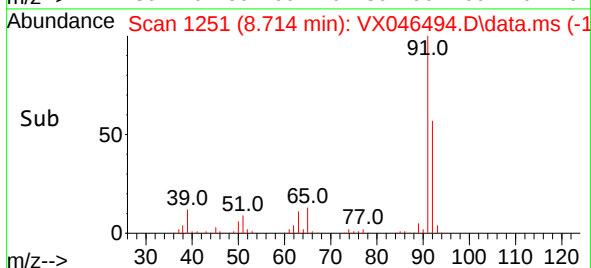
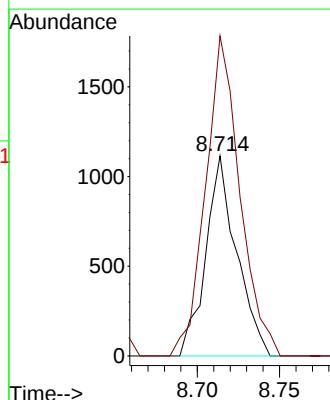
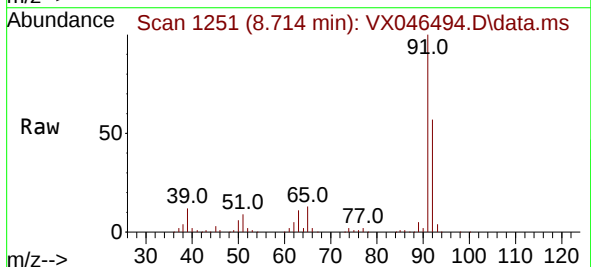
Instrument :
MSVOA_X
ClientSampleId :
C2DL

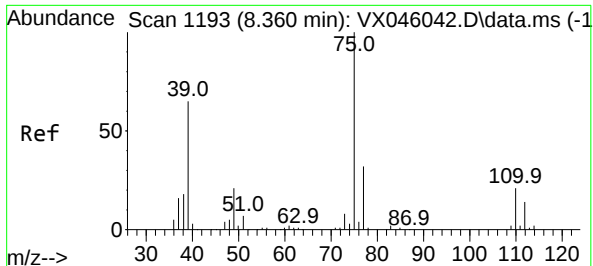
Tgt Ion: 92 Resp: 103140
Ion Ratio Lower Upper
92 100
91 170.9 136.6 205.0



#53
t-1,3-Dichloropropene
Concen: 1.136 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.262 min
Lab File: VX046494.D
Acq: 04 Jun 2025 12:41

Tgt Ion: 75 Resp: 1456
Ion Ratio Lower Upper
75 100
77 160.0 25.0 37.6#

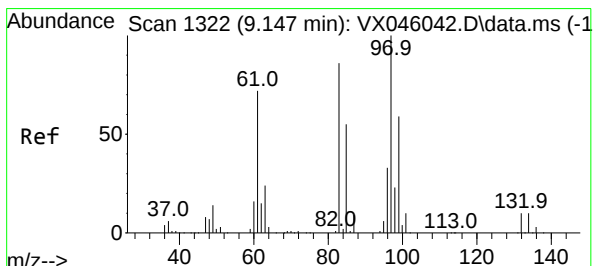
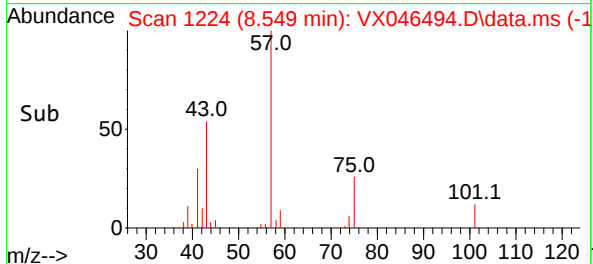
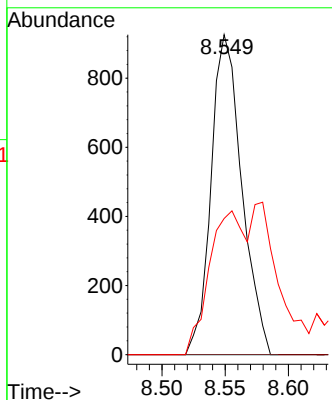
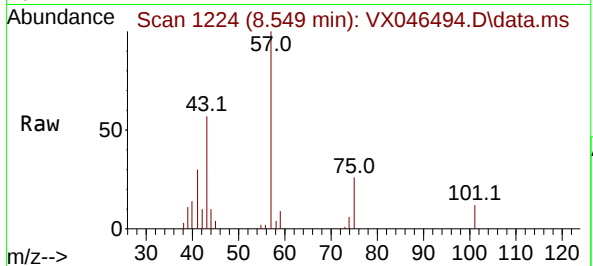




#54
 cis-1,3-Dichloropropene
 Concen: 1.104 ug/l
 RT: 8.549 min Scan# 1193
 Delta R.T. 0.189 min
 Lab File: VX046494.D
 Acq: 04 Jun 2025 12:41

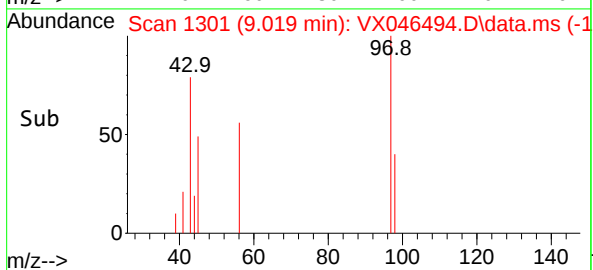
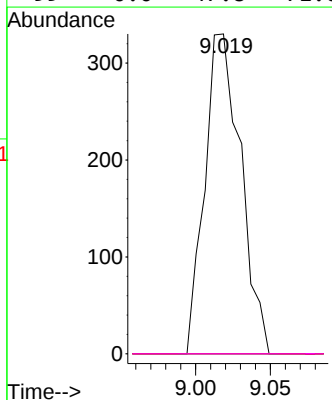
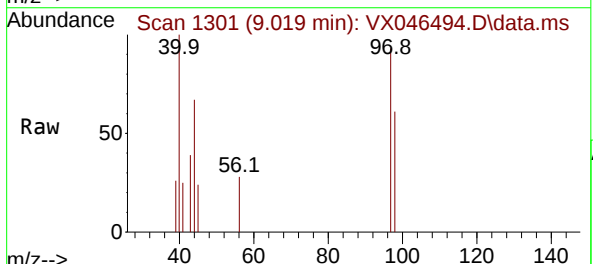
Instrument :
 MSVOA_X
 ClientSampleId :
 C2DL

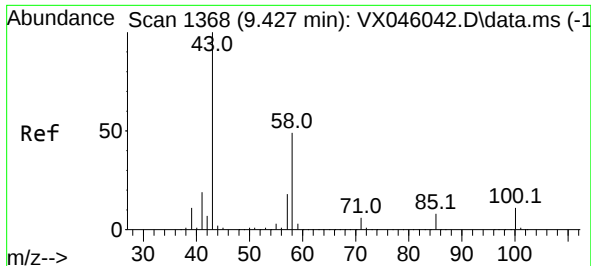
Tgt Ion: 75 Resp: 1563
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#
 39 42.5 52.2 78.4#



#55
 1,1,2-Trichloroethane
 Concen: 0.613 ug/l
 RT: 9.019 min Scan# 1301
 Delta R.T. -0.128 min
 Lab File: VX046494.D
 Acq: 04 Jun 2025 12:41

Tgt Ion: 97 Resp: 553
 Ion Ratio Lower Upper
 97 100
 83 0.0 69.0 103.6#
 85 0.0 44.3 66.5#
 99 0.0 47.8 71.6#





#59

2-Hexanone

Concen: 1.037 ug/l

RT: 9.384 min Scan# 1361

Delta R.T. -0.043 min

Lab File: VX046494.D

Acq: 04 Jun 2025 12:41

Instrument :

MSVOA_X

ClientSampleId :

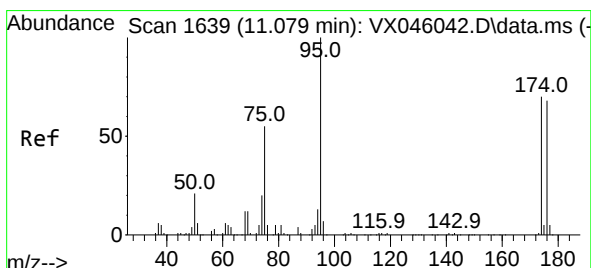
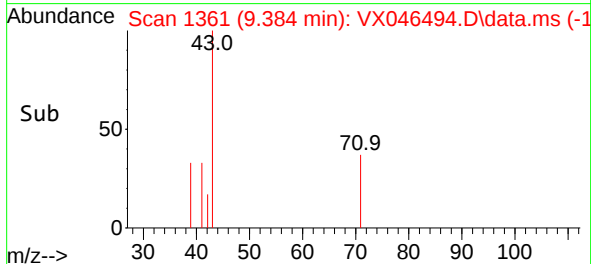
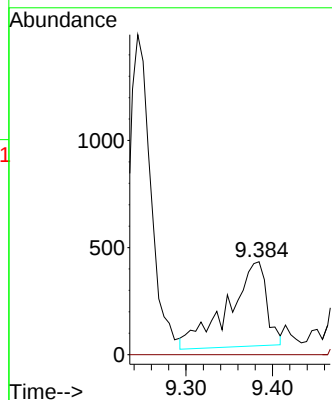
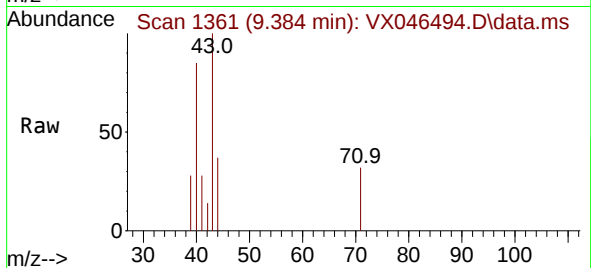
C2DL

Tgt Ion: 43 Resp: 1223

Ion Ratio Lower Upper

43 100

58 0.0 24.9 74.6#



#62

4-Bromofluorobenzene

Concen: 53.939 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX046494.D

Acq: 04 Jun 2025 12:41

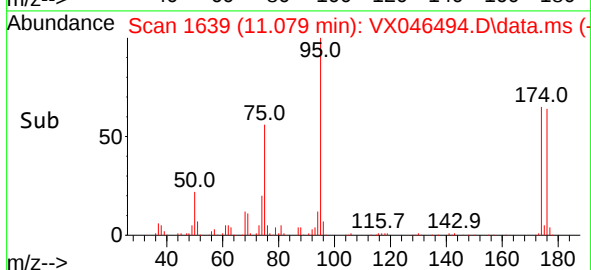
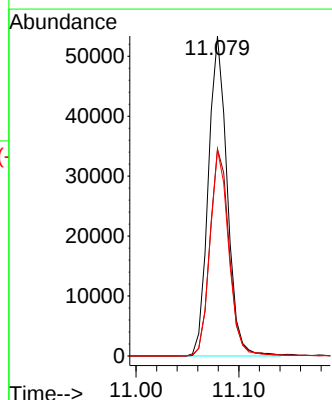
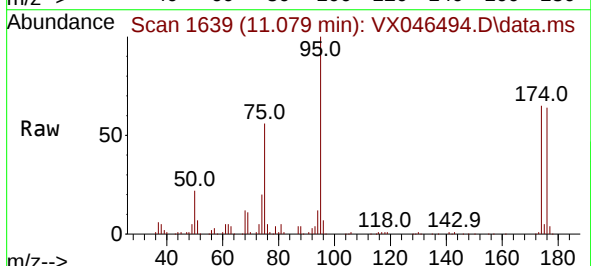
Tgt Ion: 95 Resp: 67912

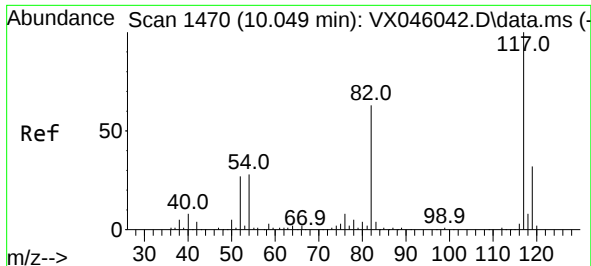
Ion Ratio Lower Upper

95 100

174 66.2 0.0 135.8

176 64.2 0.0 131.4

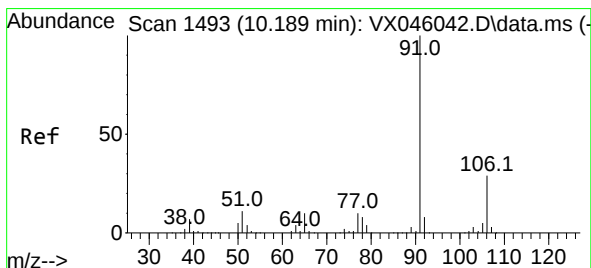
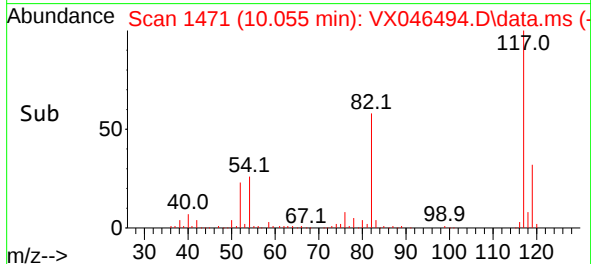
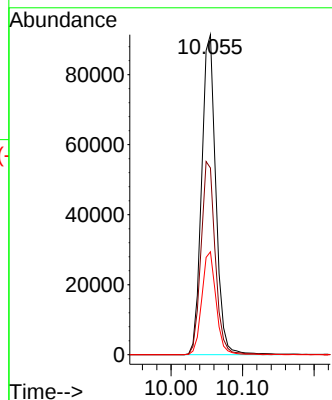
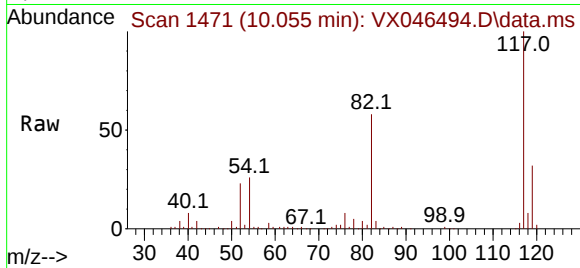




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1470
Delta R.T. 0.006 min
Lab File: VX046494.D
Acq: 04 Jun 2025 12:41

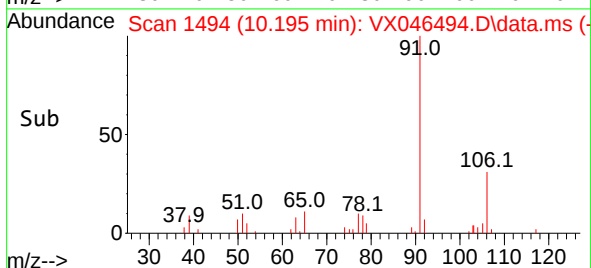
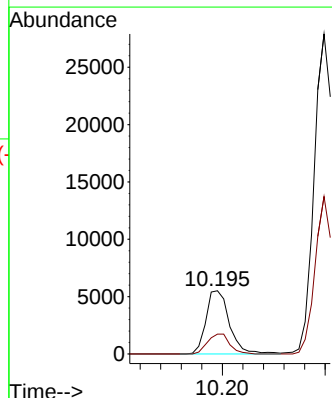
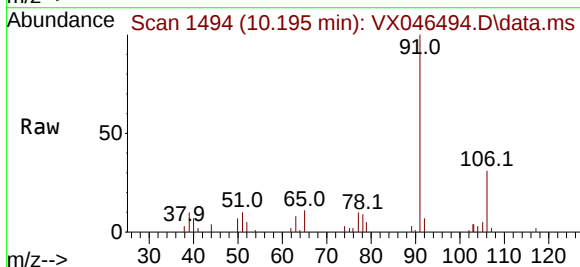
Instrument :
MSVOA_X
ClientSampleId :
C2DL

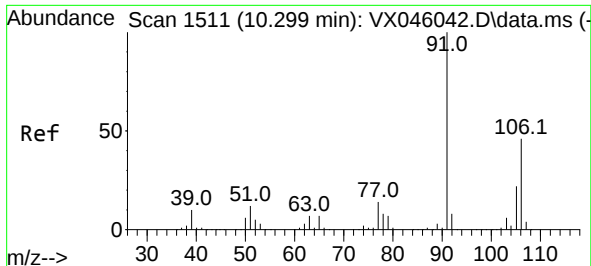
Tgt Ion:117 Resp: 125825
Ion Ratio Lower Upper
117 100
82 58.3 50.6 76.0
119 32.2 25.8 38.6



#67
Ethyl Benzene
Concen: 1.803 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.006 min
Lab File: VX046494.D
Acq: 04 Jun 2025 12:41

Tgt Ion: 91 Resp: 8751
Ion Ratio Lower Upper
91 100
106 31.4 23.4 35.2

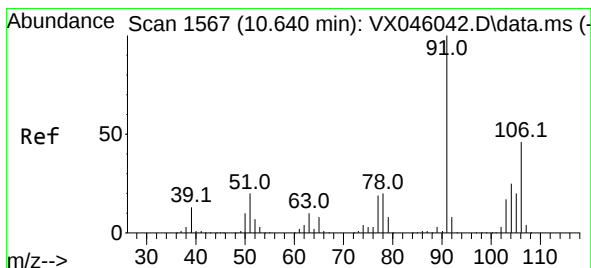
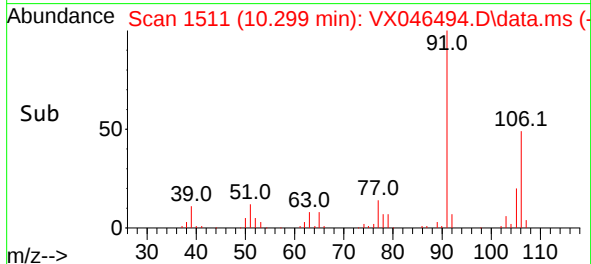
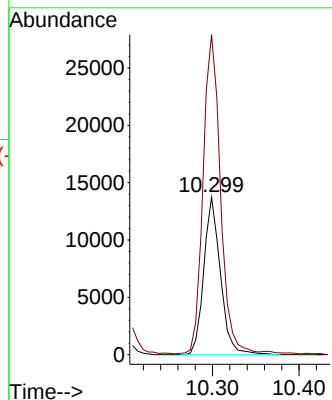
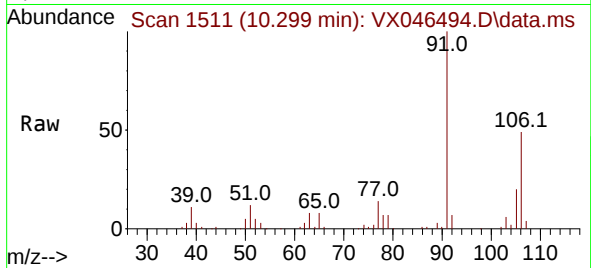




#68
m/p-Xylenes
Concen: 10.327 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX046494.D
Acq: 04 Jun 2025 12:41

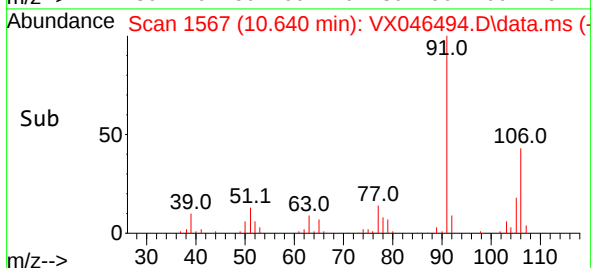
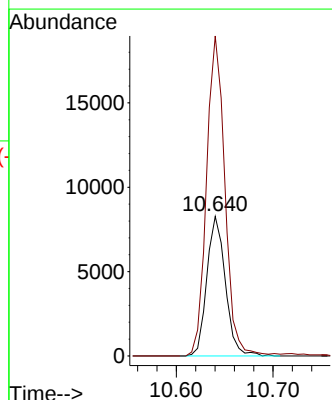
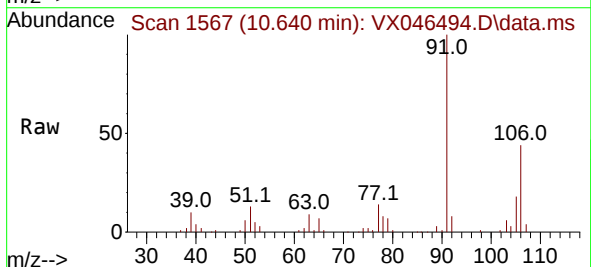
Instrument :
MSVOA_X
ClientSampleId :
C2DL

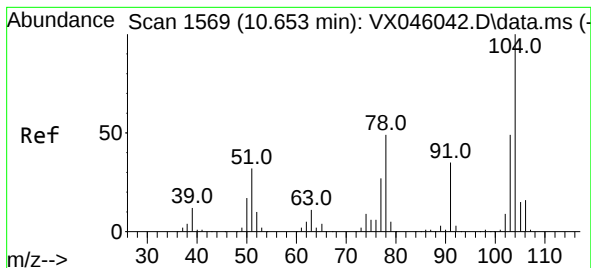
Tgt Ion:106 Resp: 18335
Ion Ratio Lower Upper
106 100
91 210.9 171.2 256.8



#69
o-Xylene
Concen: 6.366 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX046494.D
Acq: 04 Jun 2025 12:41

Tgt Ion:106 Resp: 11019
Ion Ratio Lower Upper
106 100
91 227.0 112.7 338.1





#70

Styrene

Concen: 1.107 ug/l

RT: 10.659 min Scan# 1569

Delta R.T. 0.006 min

Lab File: VX046494.D

Acq: 04 Jun 2025 12:41

Instrument :

MSVOA_X

ClientSampleId :

C2DL

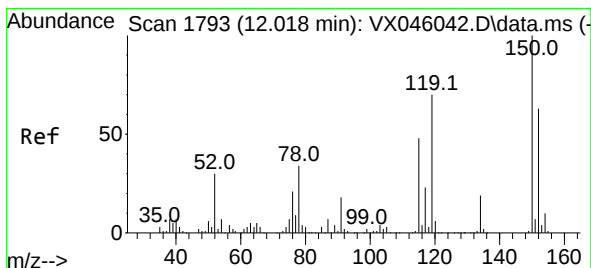
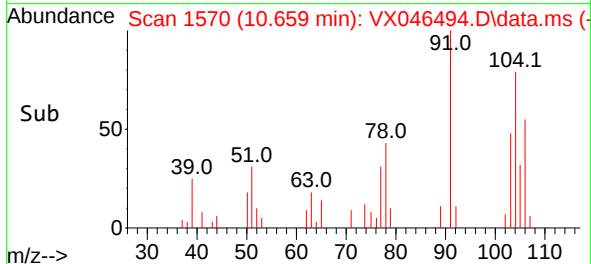
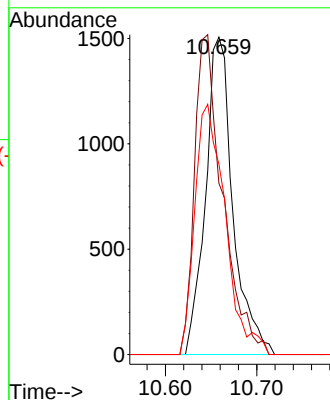
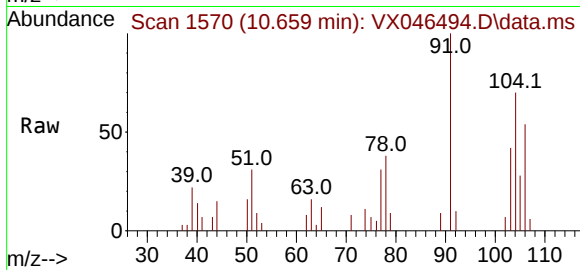
Tgt Ion:104 Resp: 3138

Ion Ratio Lower Upper

104 100

78 103.1 45.7 68.5#

103 87.9 43.7 65.5#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. -0.000 min

Lab File: VX046494.D

Acq: 04 Jun 2025 12:41

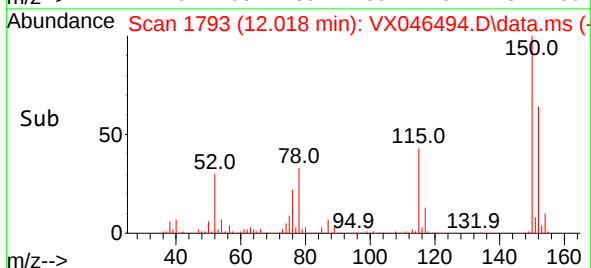
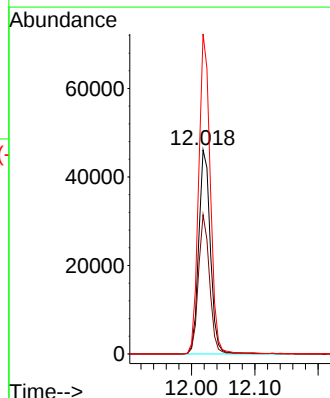
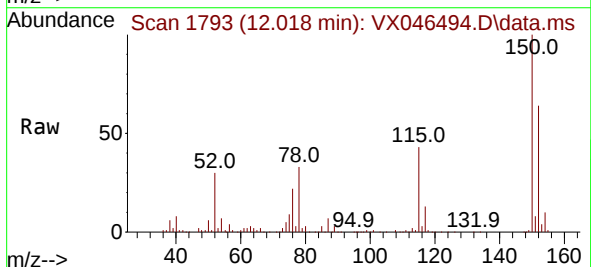
Tgt Ion:152 Resp: 59114

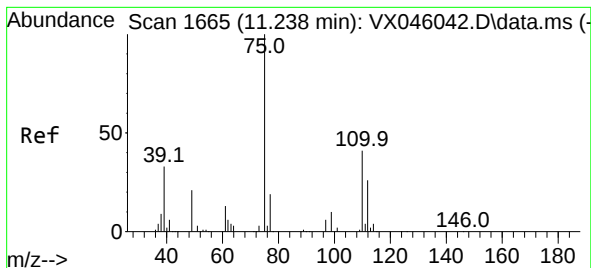
Ion Ratio Lower Upper

152 100

115 65.3 46.9 140.7

150 155.7 0.0 351.0





#76

1,2,3-Trichloropropane

Concen: 27.104 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.159 min

Lab File: VX046494.D

Acq: 04 Jun 2025 12:41

Instrument :

MSVOA_X

ClientSampleId :

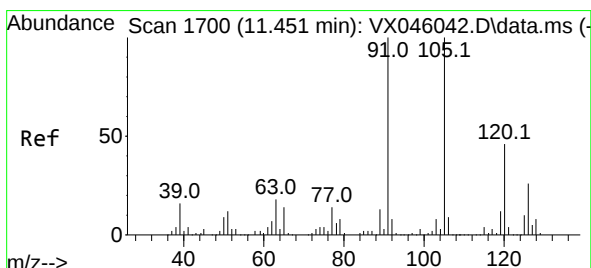
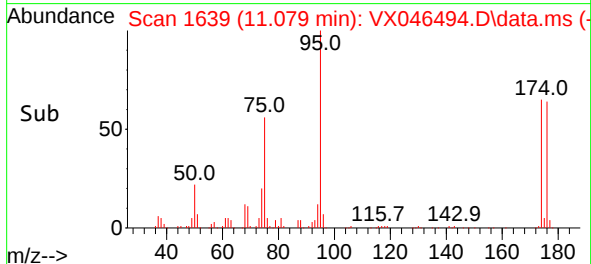
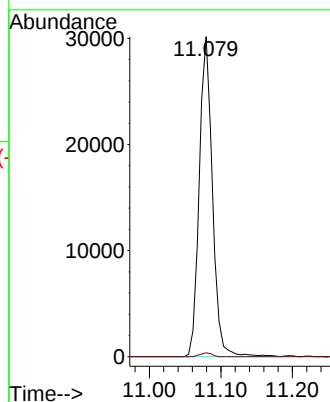
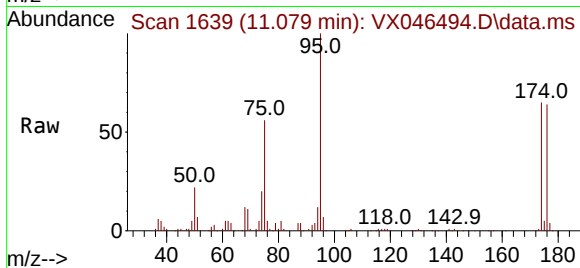
C2DL

Tgt Ion: 75 Resp: 38567

Ion Ratio Lower Upper

75 100

77 1.1 20.5 61.5#



#80

1,3,5-Trimethylbenzene

Concen: 0.606 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. -0.000 min

Lab File: VX046494.D

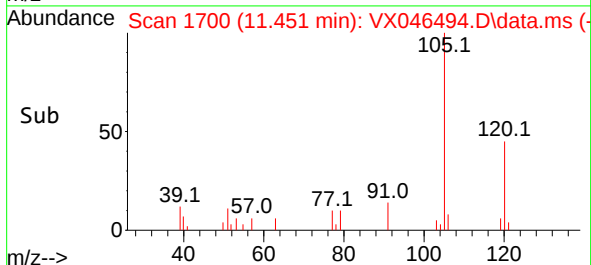
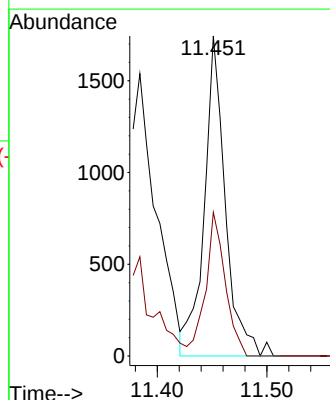
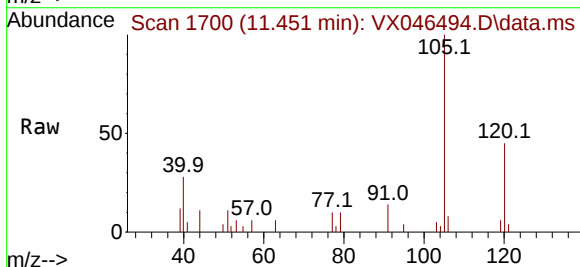
Acq: 04 Jun 2025 12:41

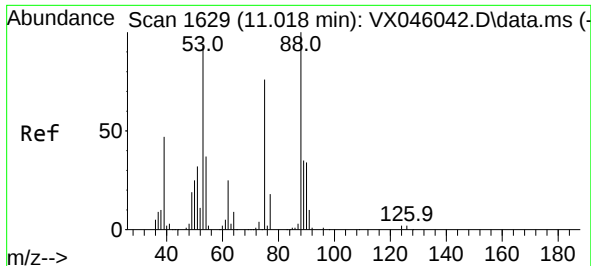
Tgt Ion:105 Resp: 2331

Ion Ratio Lower Upper

105 100

120 41.7 23.1 69.2

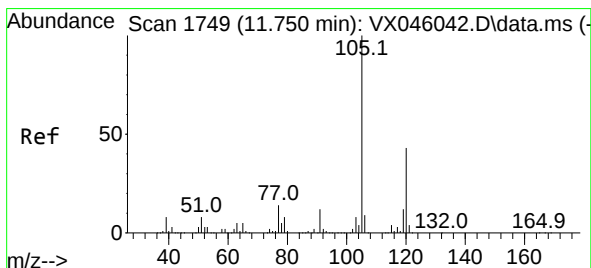
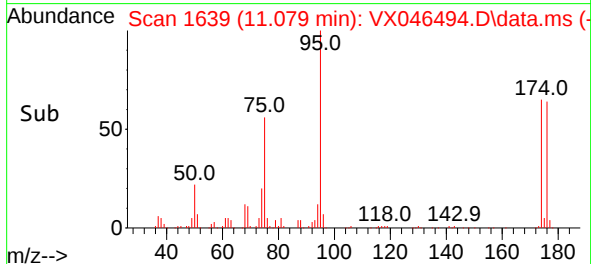
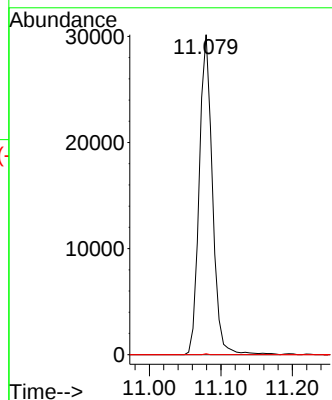
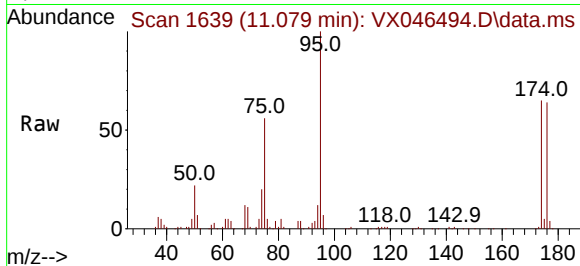




#81
trans-1,4-Dichloro-2-butene
Concen: 88.244 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX046494.D
Acq: 04 Jun 2025 12:41

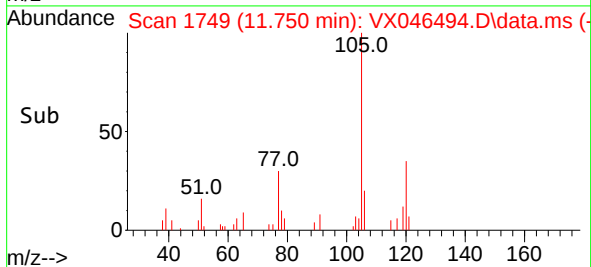
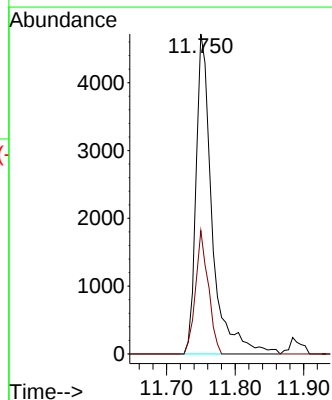
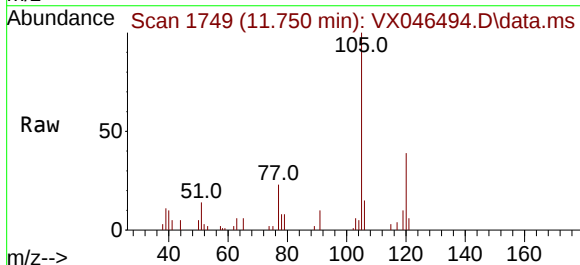
Instrument :
MSVOA_X
ClientSampleId :
C2DL

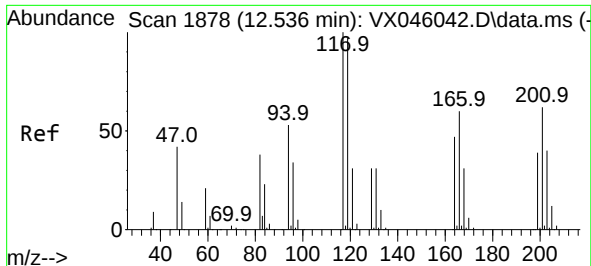
Tgt Ion: 75 Resp: 38567
Ion Ratio Lower Upper
75 100
53 0.0 100.5 150.7#
89 0.1 37.0 55.6#



#84
1,2,4-Trimethylbenzene
Concen: 1.980 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX046494.D
Acq: 04 Jun 2025 12:41

Tgt Ion: 105 Resp: 7711
Ion Ratio Lower Upper
105 100
120 30.6 21.2 63.6

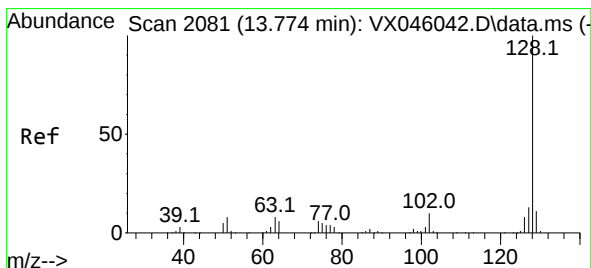
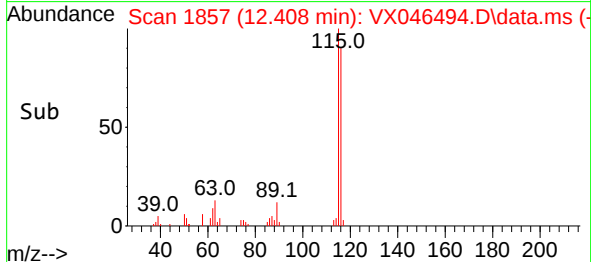
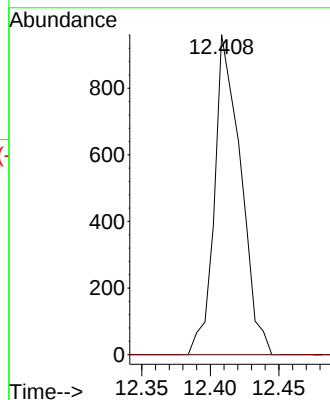
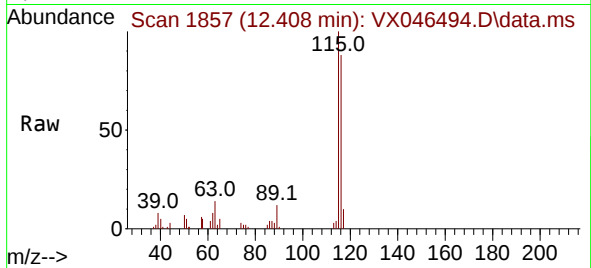




#90
Hexachloroethane
Concen: 1.855 ug/l
RT: 12.408 min Scan# 117
Delta R.T. -0.128 min
Lab File: VX046494.D
Acq: 04 Jun 2025 12:41

Instrument :
MSVOA_X
ClientSampleId :
C2DL

Tgt Ion:117 Resp: 1283
Ion Ratio Lower Upper
117 100
201 0.0 31.6 94.7#



#95
Naphthalene
Concen: 8.848 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VX046494.D
Acq: 04 Jun 2025 12:41

Tgt Ion:128 Resp: 36473
Ion Ratio Lower Upper
128 100
127 12.2 10.4 15.6
129 11.2 8.6 13.0

