

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX043025\
 Data File : VX045994.D
 Acq On : 30 Apr 2025 13:42
 Operator : JC/MD
 Sample : Q1901-10
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 B-167-SB02

Quant Time: May 01 03:36:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

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

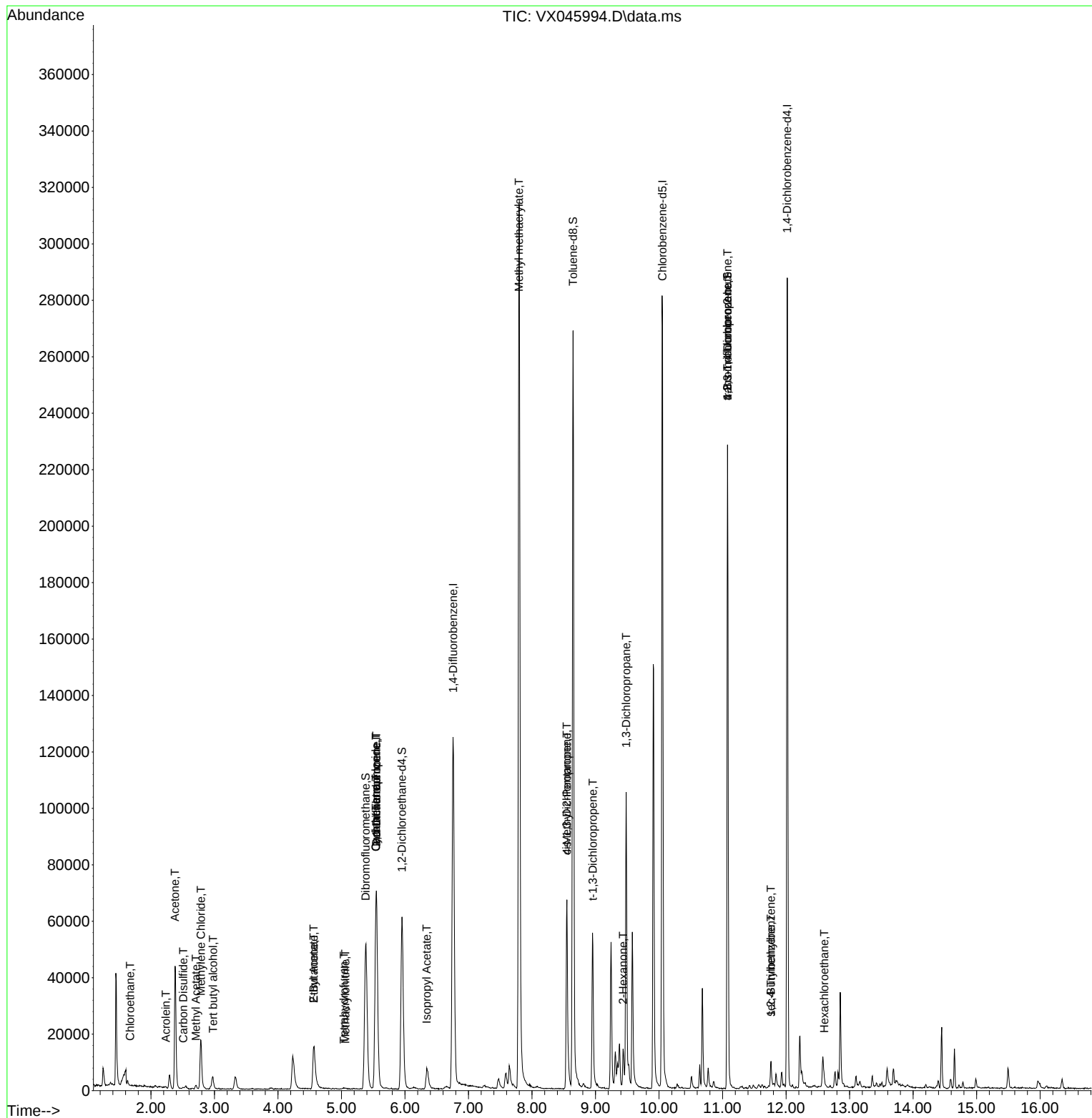
Internal Standards						
1) Pentafluorobenzene	5.550	168	59744	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	118644	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	115892	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	51062	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	61574	56.357	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 112.720%			
35) Dibromofluoromethane	5.379	113	44834	53.261	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.520%			
50) Toluene-d8	8.647	98	154167	52.471	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.940%			
62) 4-Bromofluorobenzene	11.079	95	59351	55.457	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 110.920%			
Target Compounds						Qvalue
6) Chloroethane	1.673	64	320	0.718	ug/l #	42
11) Tert butyl alcohol	2.977	59	4582	31.206	ug/l	99
13) Acrolein	2.233	56	105	0.519	ug/l #	1
16) Acetone	2.380	43	46453	103.543	ug/l	98
17) Carbon Disulfide	2.508	76	376	0.212	ug/l #	76
18) Methyl Acetate	2.709	43	1797	1.740	ug/l	99
20) Methylene Chloride	2.788	84	8072	9.611	ug/l	94
25) 2-Butanone	4.562	43	30197	45.982	ug/l	97
29) Tetrahydrofuran	5.038	42	308	0.723	ug/l #	41
31) Cyclohexane	5.544	56	1769	1.320	ug/l #	11
36) 1,1-Dichloropropene	5.550	75	5970	5.253	ug/l #	46
37) Ethyl Acetate	4.562	43	30197	21.083	ug/l #	71
38) Carbon Tetrachloride	5.544	117	7432	6.050	ug/l #	16
41) Methacrylonitrile	5.062	41	289	0.382	ug/l #	41
43) Isopropyl Acetate	6.342	43	10597	4.881	ug/l	98
48) Methyl methacrylate	7.793	41	32377	28.886	ug/l #	50
51) 4-Methyl-2-Pentanone	8.549	43	26921	18.707	ug/l #	54
53) t-1,3-Dichloropropene	8.958	75	34	2.315	ug/l #	43
54) cis-1,3-Dichloropropene	8.549	75	9933	7.961	ug/l #	68
57) 1,3-Dichloropropane	9.482	76	996	0.683	ug/l #	42
59) 2-Hexanone	9.433	43	8686	8.151	ug/l	98
76) 1,2,3-Trichloropropane	11.079	75	34837	27.970	ug/l #	37
81) trans-1,4-Dichloro-2-b...	11.079	75	34837	94.926	ug/l #	1
84) 1,2,4-Trimethylbenzene	11.762	105	880	0.259	ug/l #	33
85) sec-Butylbenzene	11.762	105	880	0.214	ug/l #	58
90) Hexachloroethane	12.603	117	189	0.324	ug/l #	19

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

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Instrument :
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

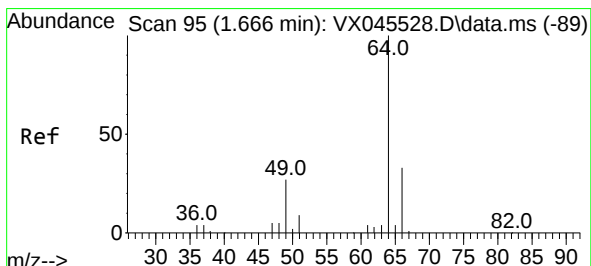
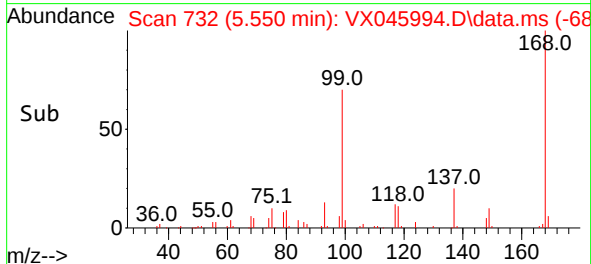
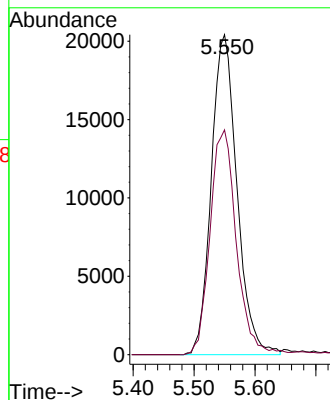
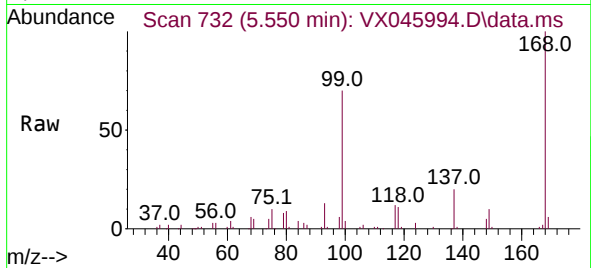




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

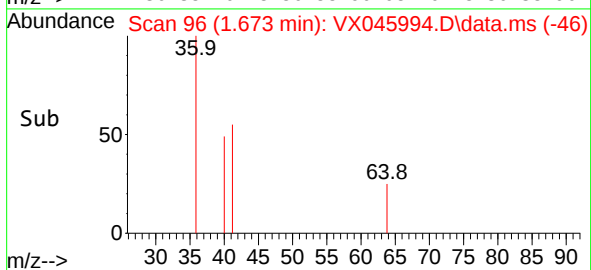
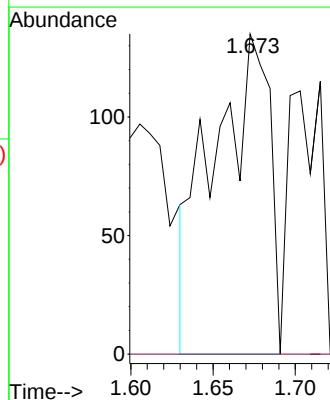
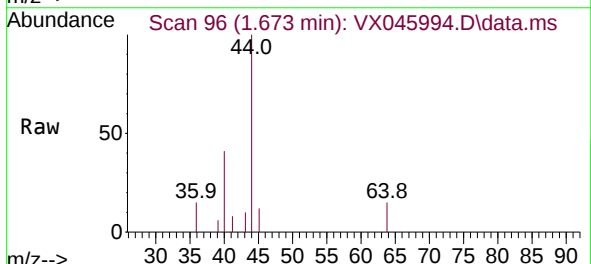
Instrument :
MSVOA_X
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B-167-SB02

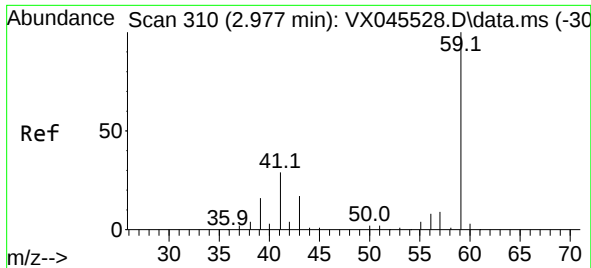
Tgt Ion:168 Resp: 59744
Ion Ratio Lower Upper
168 100
99 70.2 52.3 78.5



#6
Chloroethane
Concen: 0.718 ug/l
RT: 1.673 min Scan# 96
Delta R.T. 0.006 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

Tgt Ion: 64 Resp: 320
Ion Ratio Lower Upper
64 100
66 0.0 26.3 39.5

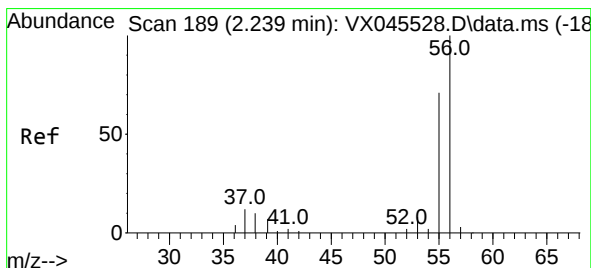
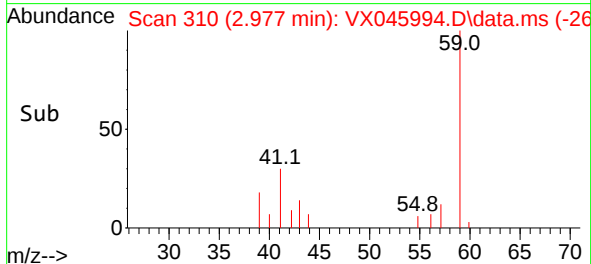
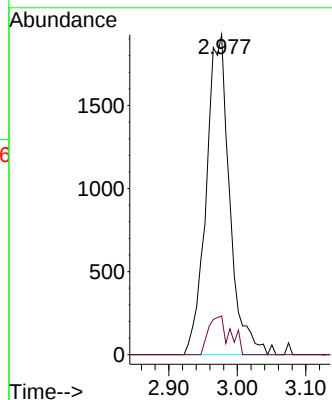
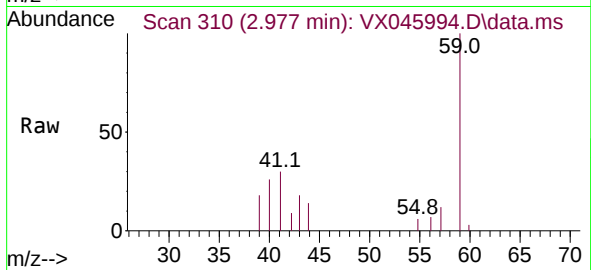




#11
Tert butyl alcohol
Concen: 31.206 ug/l
RT: 2.977 min Scan# 310
Delta R.T. 0.000 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

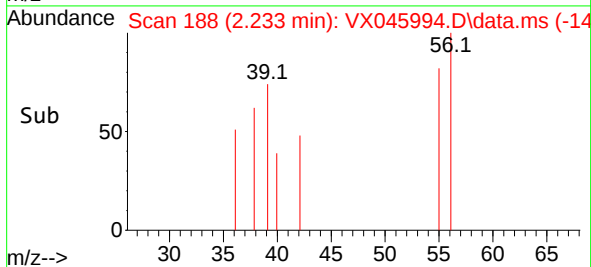
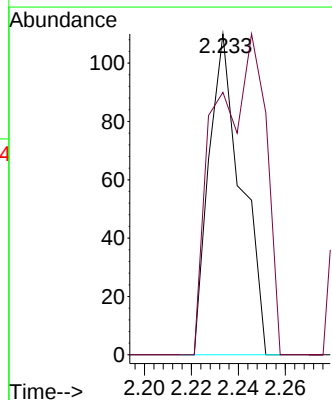
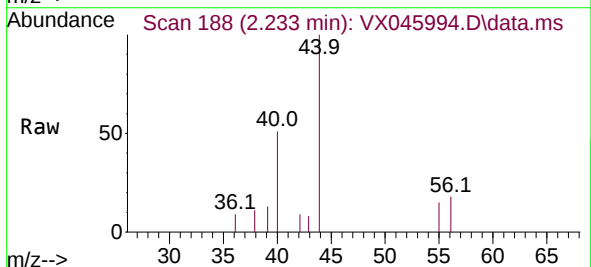
Instrument :
MSVOA_X
ClientSampleId :
B-167-SB02

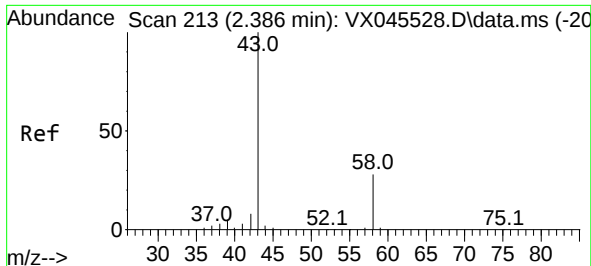
Tgt Ion: 59 Resp: 4582
Ion Ratio Lower Upper
59 100
57 10.9 8.6 12.8



#13
Acrolein
Concen: 0.519 ug/l
RT: 2.233 min Scan# 188
Delta R.T. -0.006 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

Tgt Ion: 56 Resp: 105
Ion Ratio Lower Upper
56 100
55 153.3 56.2 84.2#

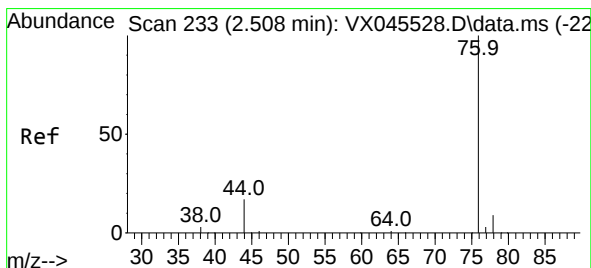
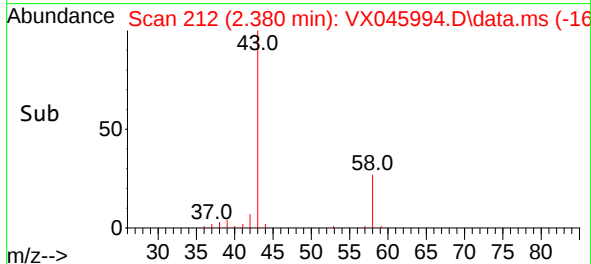
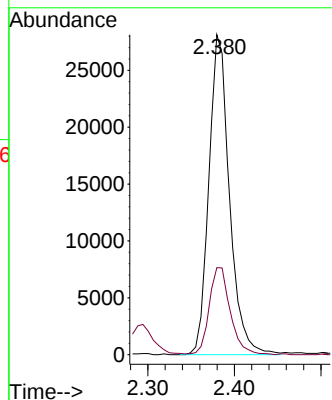
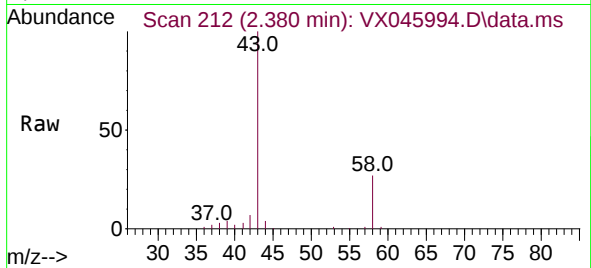




#16
Acetone
Concen: 103.543 ug/l
RT: 2.380 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

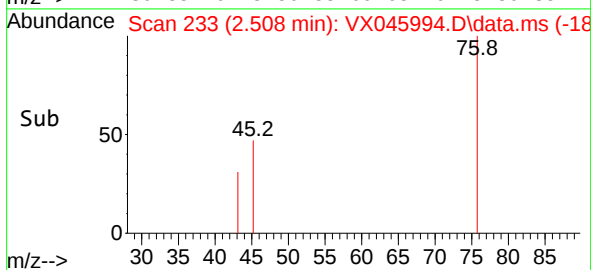
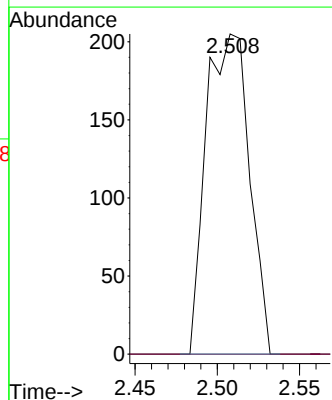
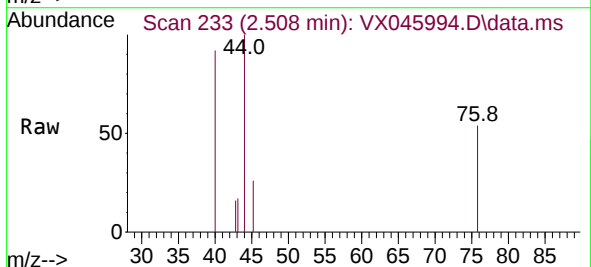
Instrument :
MSVOA_X
ClientSampleId :
B-167-SB02

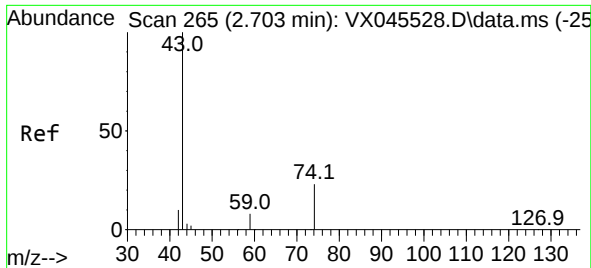
Tgt Ion: 43 Resp: 46453
Ion Ratio Lower Upper
43 100
58 27.0 22.3 33.5



#17
Carbon Disulfide
Concen: 0.212 ug/l
RT: 2.508 min Scan# 233
Delta R.T. 0.000 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

Tgt Ion: 76 Resp: 376
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.6#

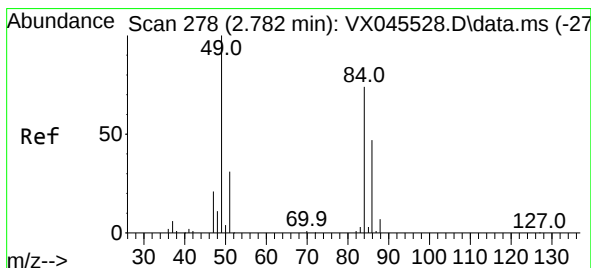
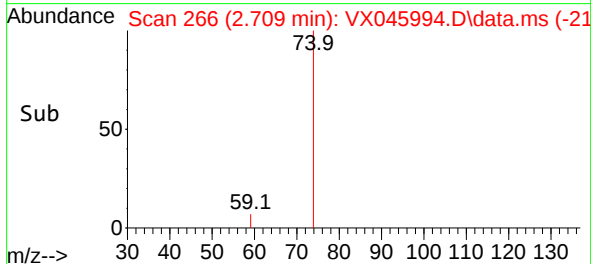
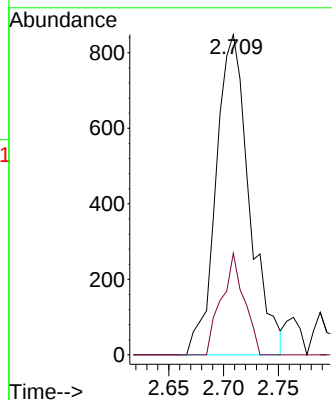
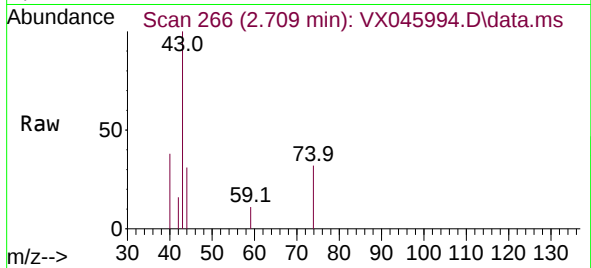




#18
Methyl Acetate
Concen: 1.740 ug/l
RT: 2.709 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

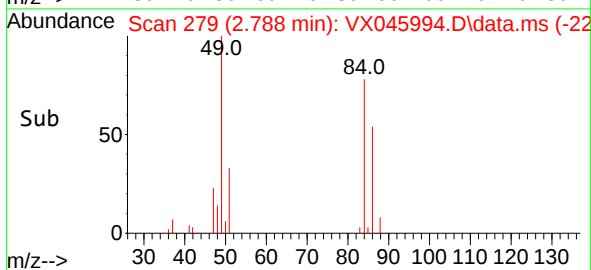
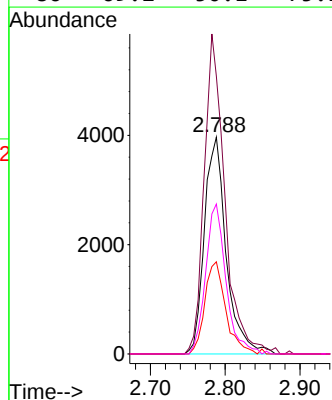
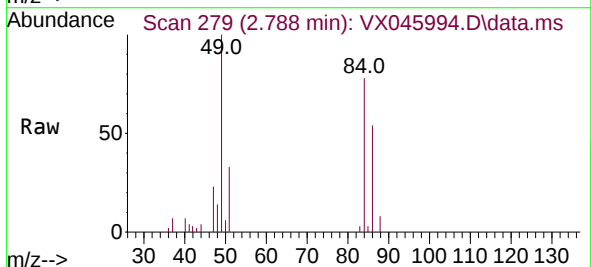
Instrument :
MSVOA_X
ClientSampleId :
B-167-SB02

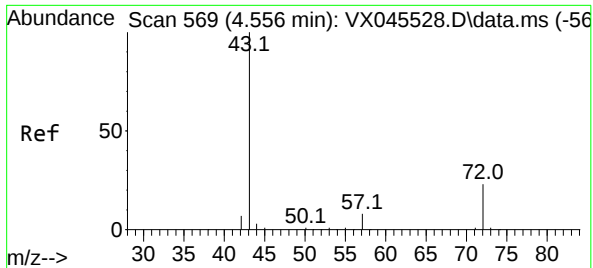
Tgt Ion: 43 Resp: 1797
Ion Ratio Lower Upper
43 100
74 21.5 17.5 26.3



#20
Methylene Chloride
Concen: 9.611 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.006 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

Tgt Ion: 84 Resp: 8072
Ion Ratio Lower Upper
84 100
49 128.0 107.5 161.3
51 42.5 33.0 49.6
86 69.2 50.1 75.1

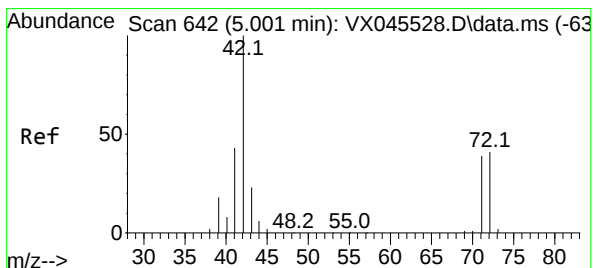
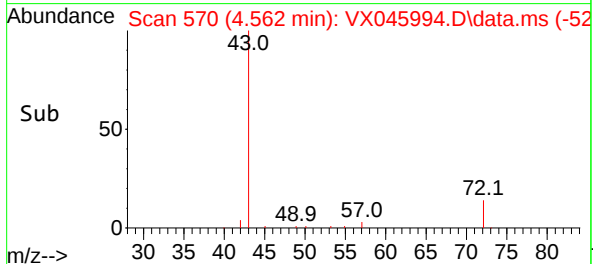
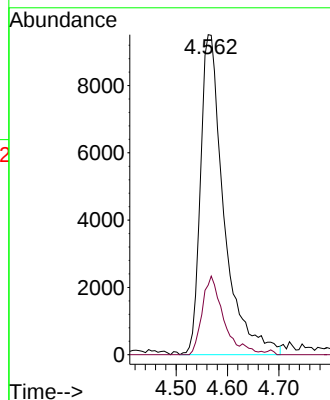
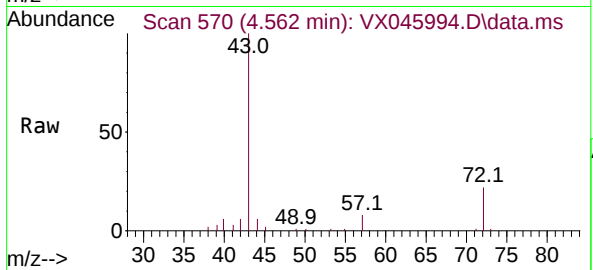




#25
2-Butanone
Concen: 45.982 ug/l
RT: 4.562 min Scan# 51
Delta R.T. 0.006 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

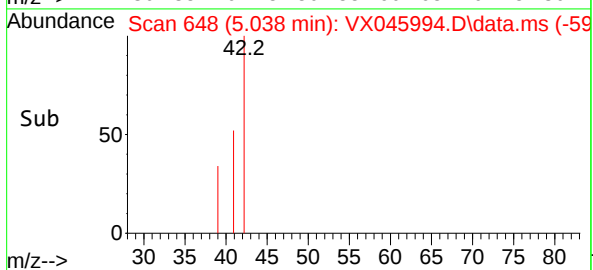
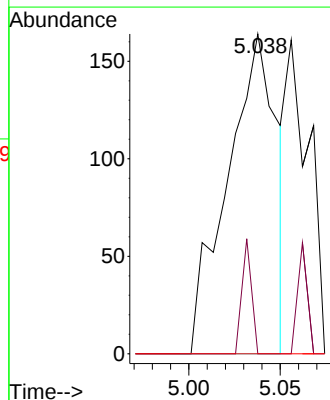
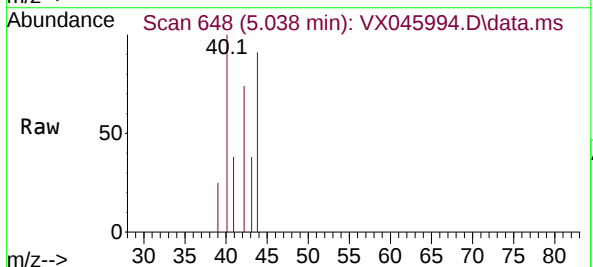
Instrument :
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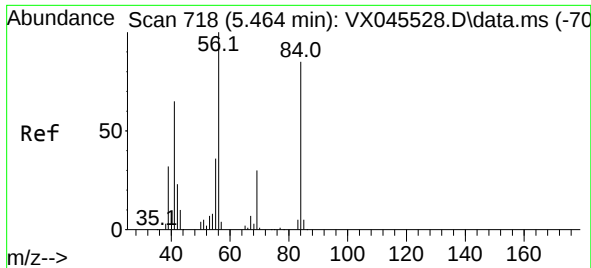
Tgt Ion: 43 Resp: 30197
Ion Ratio Lower Upper
43 100
72 21.7 18.6 28.0



#29
Tetrahydrofuran
Concen: 0.723 ug/l
RT: 5.038 min Scan# 648
Delta R.T. 0.037 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

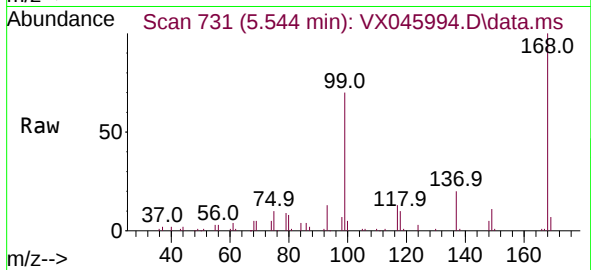
Tgt Ion: 42 Resp: 308
Ion Ratio Lower Upper
42 100
72 7.1 33.4 50.0#
71 0.0 31.4 47.0#



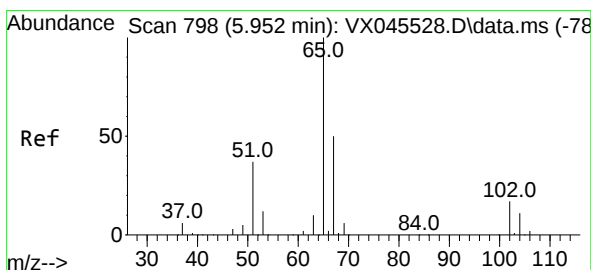
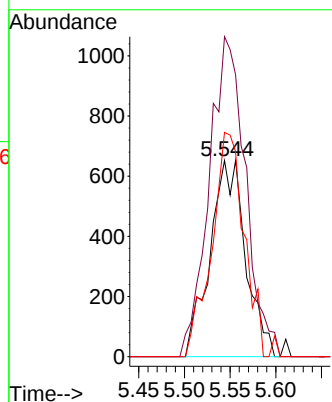
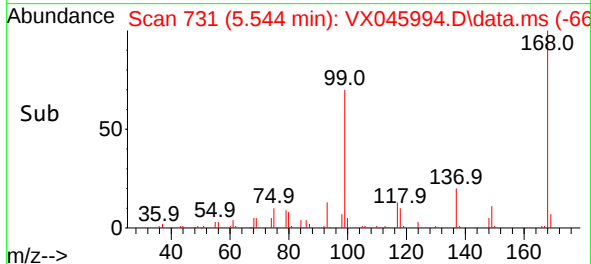


#31
Cyclohexane
Concen: 1.320 ug/l
RT: 5.544 min Scan# 718
Delta R.T. 0.079 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

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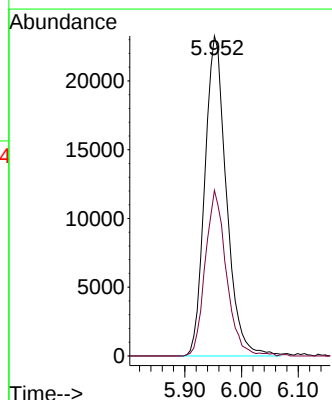
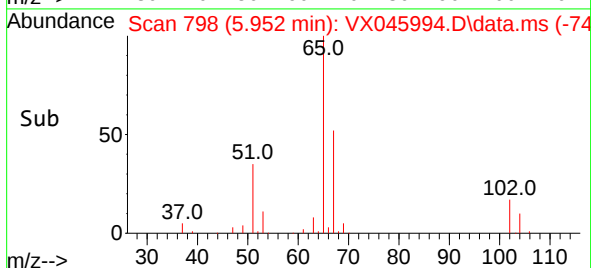
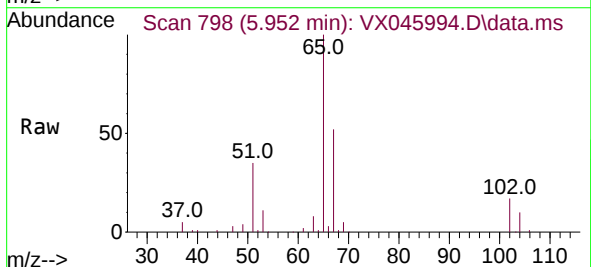


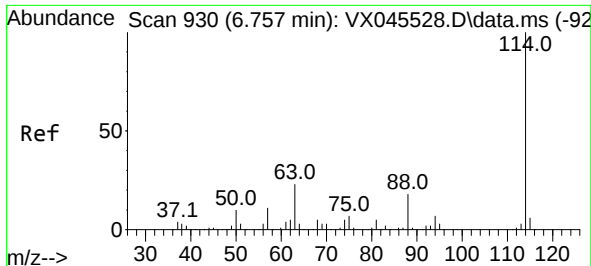
Tgt Ion: 56 Resp: 1769
Ion Ratio Lower Upper
56 100
69 163.2 23.6 35.4#
84 114.4 67.7 101.5#



#33
1,2-Dichloroethane-d4
Concen: 56.357 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

Tgt Ion: 65 Resp: 61574
Ion Ratio Lower Upper
65 100
67 50.7 0.0 99.0

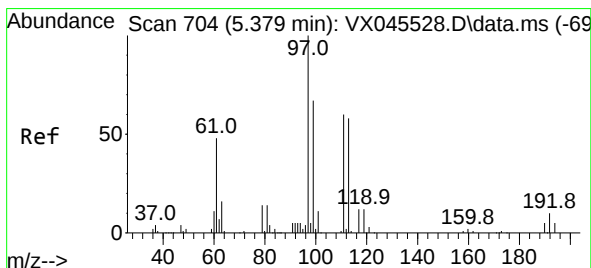
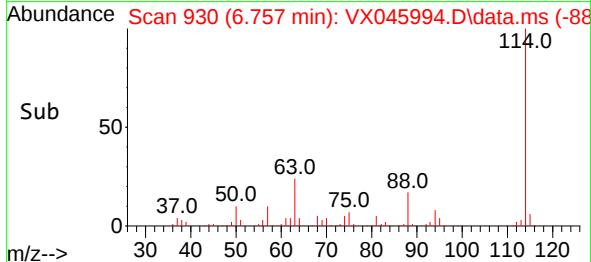
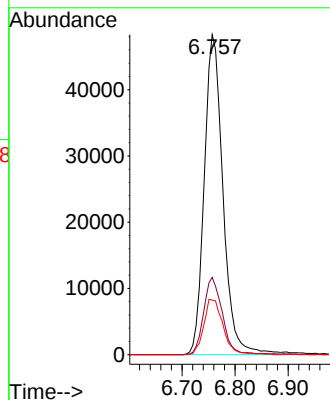
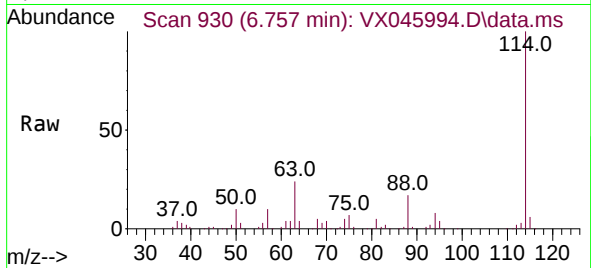




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

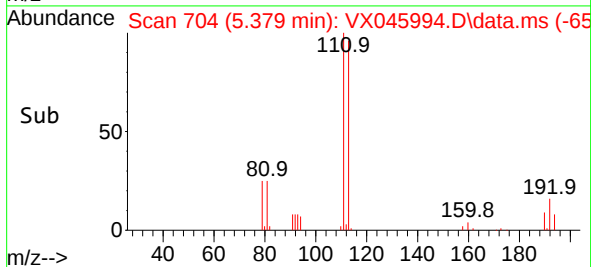
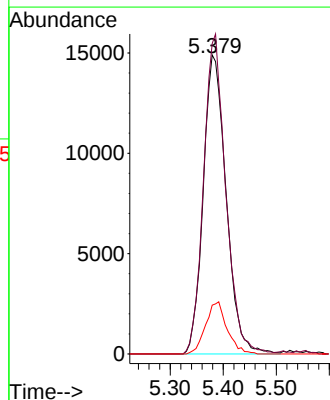
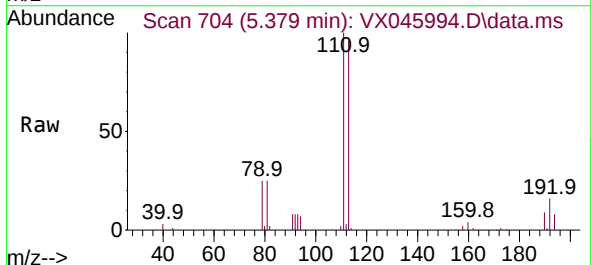
Instrument :
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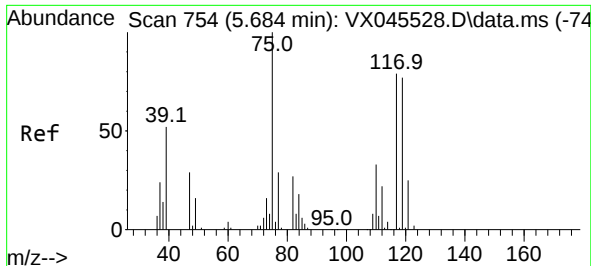
Tgt Ion:114 Resp: 118644
Ion Ratio Lower Upper
114 100
63 24.1 0.0 46.8
88 17.0 0.0 35.4



#35
Dibromofluoromethane
Concen: 53.261 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

Tgt Ion:113 Resp: 44834
Ion Ratio Lower Upper
113 100
111 103.2 81.8 122.6
192 16.3 13.8 20.6





#36

1,1-Dichloropropene

Concen: 5.253 ug/l

RT: 5.550 min Scan# 71

Delta R.T. -0.134 min

Lab File: VX045994.D

Acq: 30 Apr 2025 13:42

Instrument :

MSVOA_X

ClientSampleId :

B-167-SB02

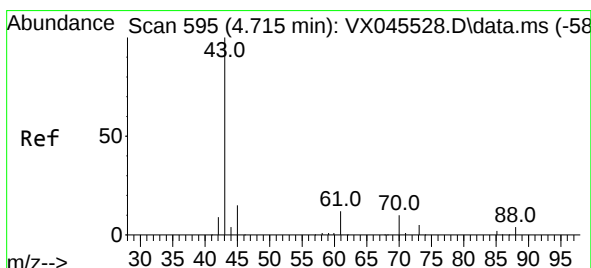
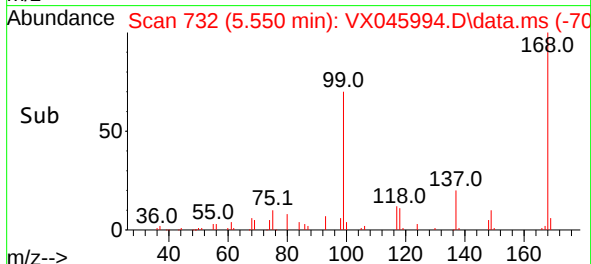
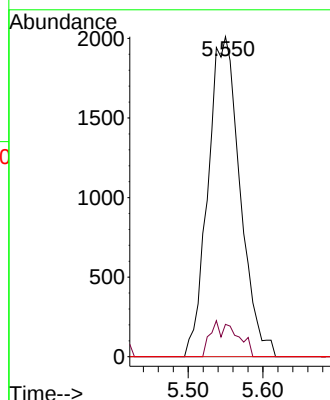
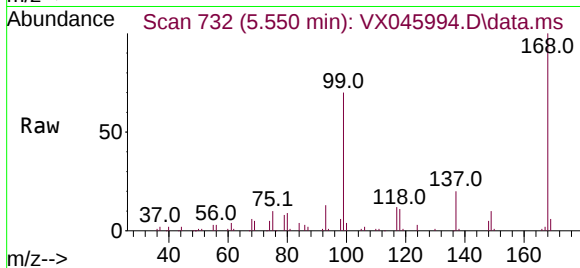
Tgt Ion: 75 Resp: 5970

Ion Ratio Lower Upper

75 100

110 3.8 16.9 50.6#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 21.083 ug/l

RT: 4.562 min Scan# 570

Delta R.T. -0.152 min

Lab File: VX045994.D

Acq: 30 Apr 2025 13:42

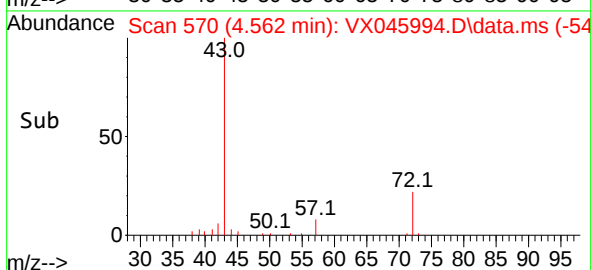
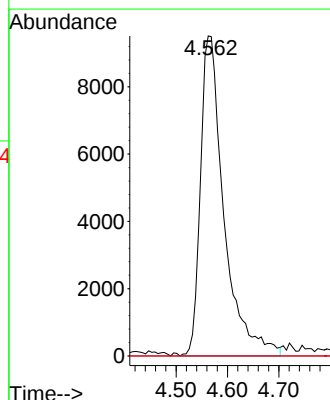
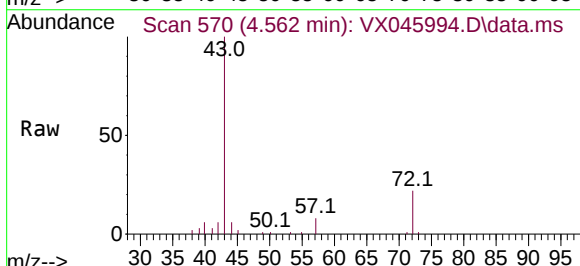
Tgt Ion: 43 Resp: 30197

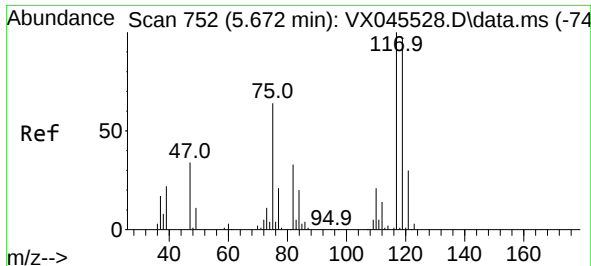
Ion Ratio Lower Upper

43 100

61 0.0 9.9 14.9#

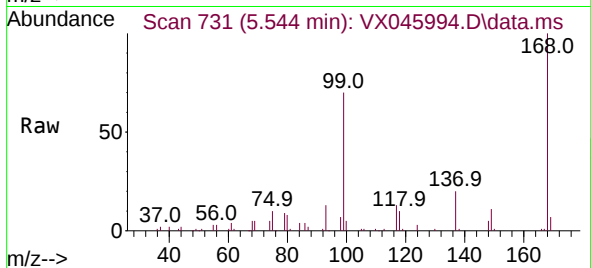
70 0.0 7.5 11.3#



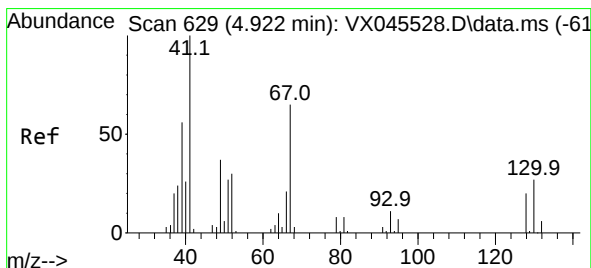
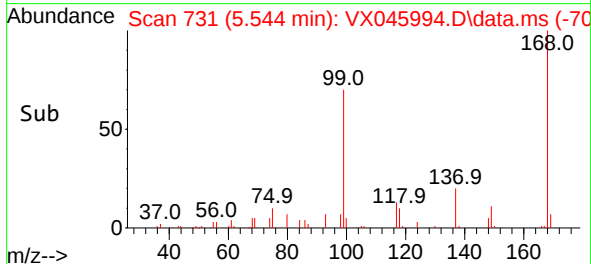
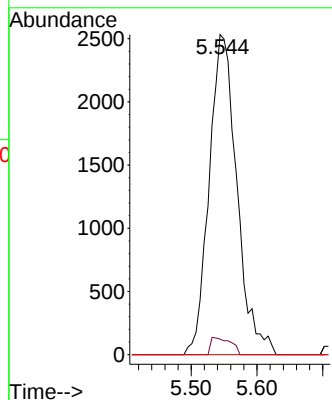


#38
Carbon Tetrachloride
Concen: 6.050 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.128 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

Instrument :
MSVOA_X
ClientSampleId :
B-167-SB02

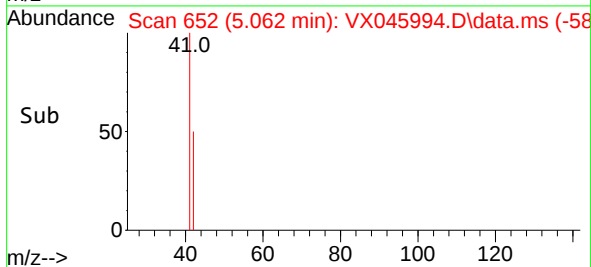
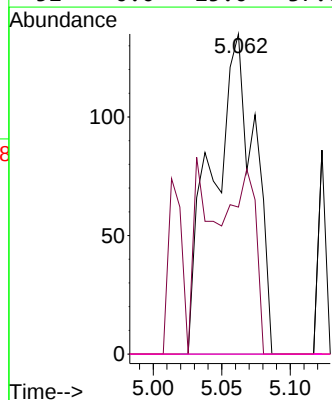
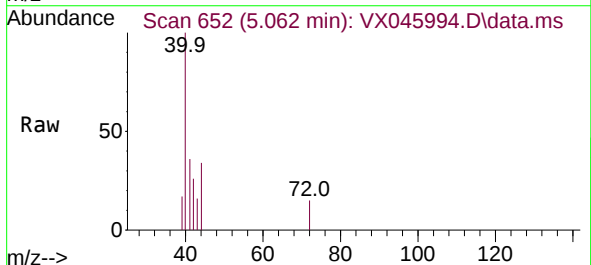


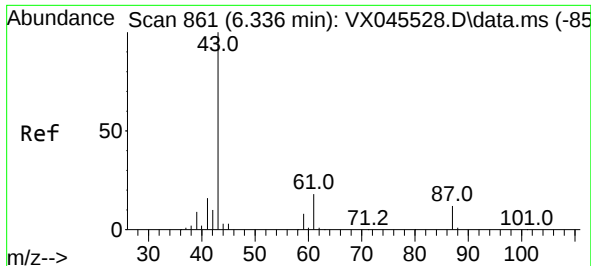
Tgt Ion:117 Resp: 7432
Ion Ratio Lower Upper
117 100
119 4.9 76.9 115.3#
121 0.0 24.2 36.2#



#41
Methacrylonitrile
Concen: 0.382 ug/l
RT: 5.062 min Scan# 652
Delta R.T. 0.140 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

Tgt Ion: 41 Resp: 289
Ion Ratio Lower Upper
41 100
39 33.9 47.0 70.6#
67 0.0 53.2 79.8#
52 0.0 25.0 37.6#

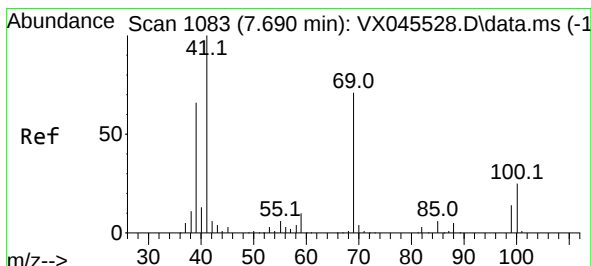
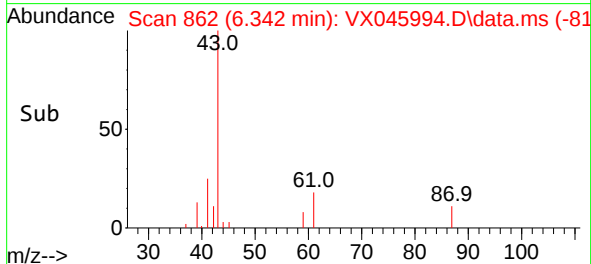
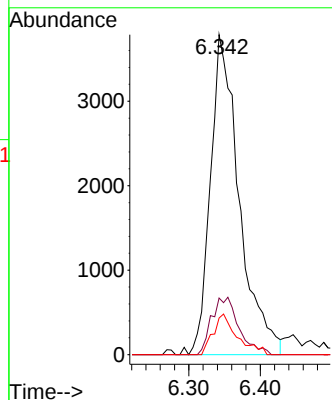
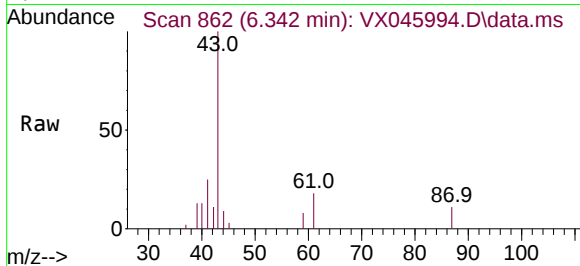




#43
Isopropyl Acetate
Concen: 4.881 ug/l
RT: 6.342 min Scan# 81
Delta R.T. 0.006 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

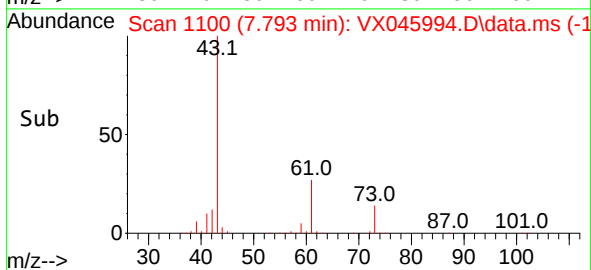
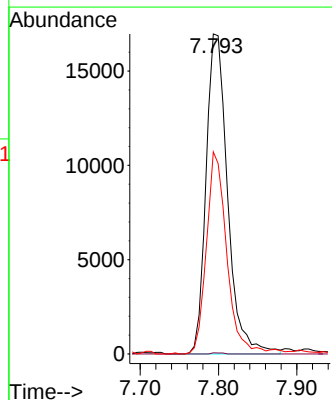
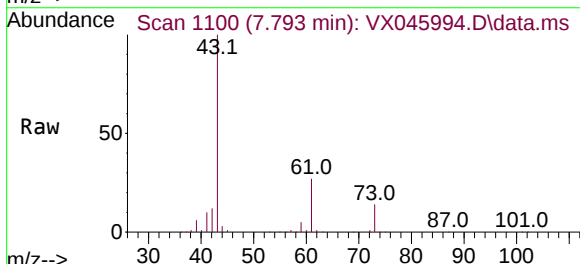
Instrument :
MSVOA_X
ClientSampleId :
B-167-SB02

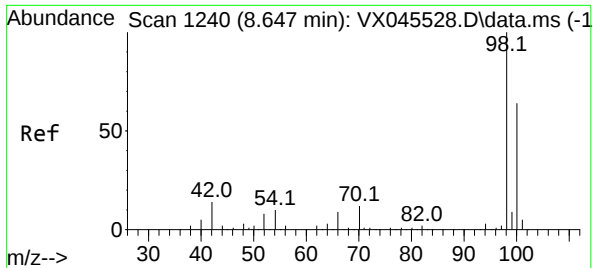
Tgt Ion: 43 Resp: 10597
Ion Ratio Lower Upper
43 100
61 17.0 14.1 21.1
87 10.5 9.2 13.8



#48
Methyl methacrylate
Concen: 28.886 ug/l
RT: 7.793 min Scan# 1100
Delta R.T. 0.104 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

Tgt Ion: 41 Resp: 32377
Ion Ratio Lower Upper
41 100
69 0.2 58.2 87.2#
39 59.2 53.6 80.4

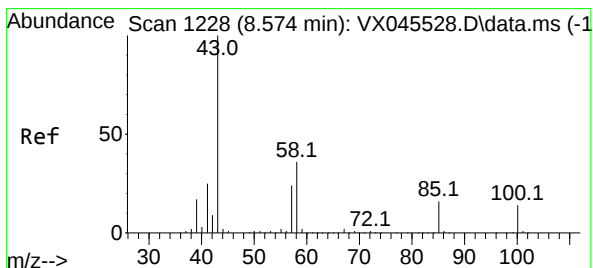
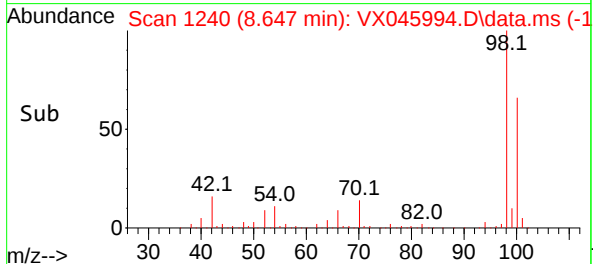
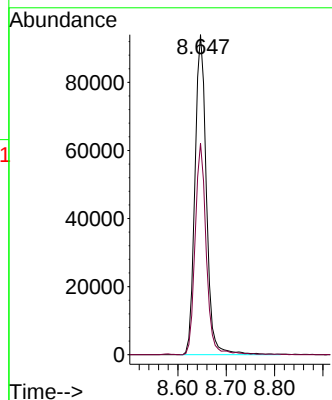
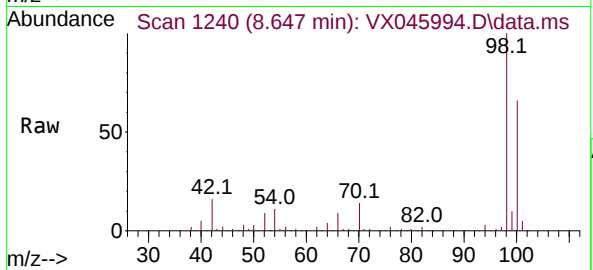




#50
Toluene-d8
Concen: 52.471 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

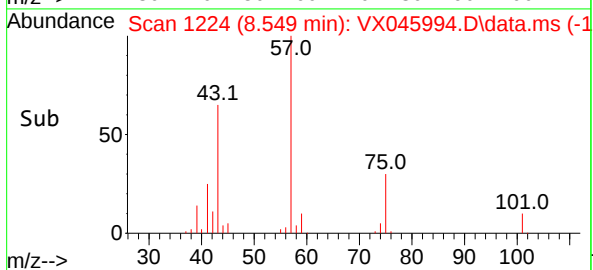
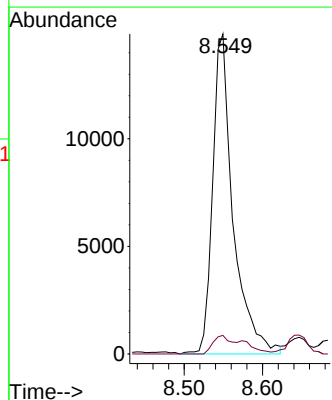
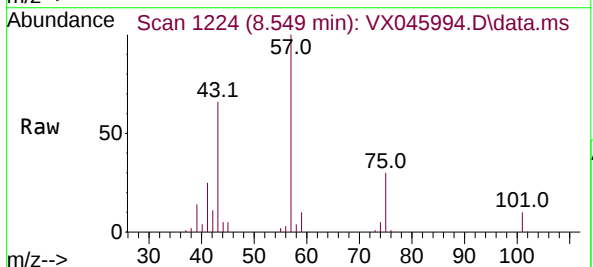
Instrument :
MSVOA_X
ClientSampleId :
B-167-SB02

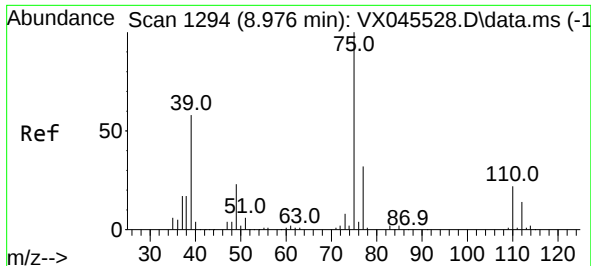
Tgt Ion: 98 Resp: 154167
Ion Ratio Lower Upper
98 100
100 64.1 52.2 78.4



#51
4-Methyl-2-Pentanone
Concen: 18.707 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. -0.024 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

Tgt Ion: 43 Resp: 26921
Ion Ratio Lower Upper
43 100
58 8.5 28.5 42.7#

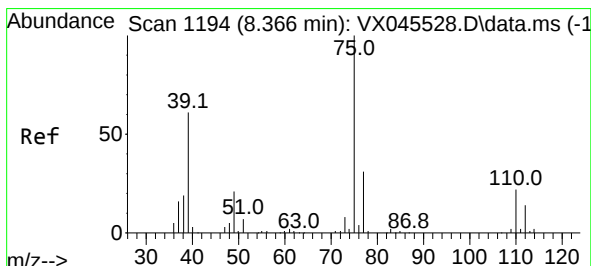
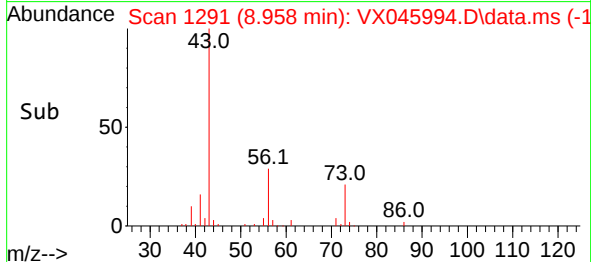
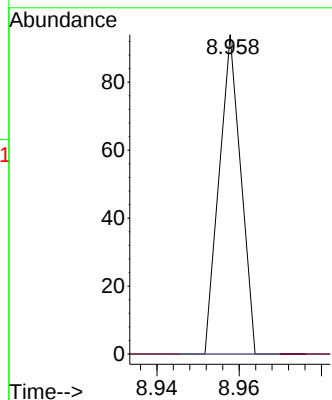
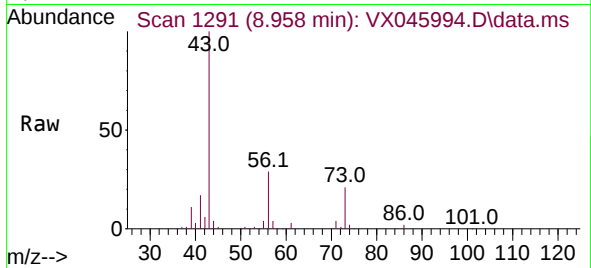




#53
t-1,3-Dichloropropene
Concen: 2.315 ug/l
RT: 8.958 min Scan# 1124
Delta R.T. -0.018 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

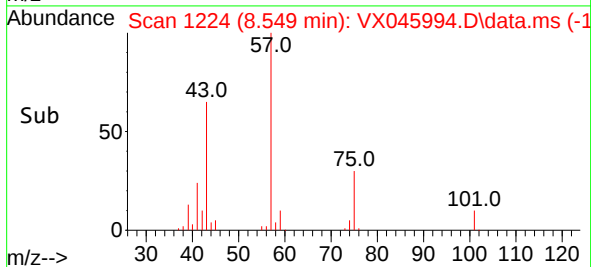
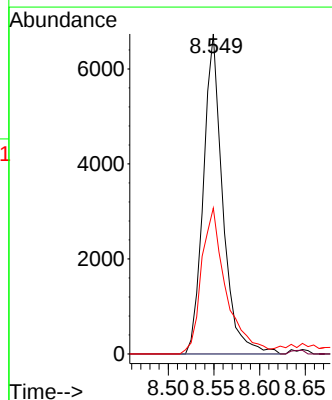
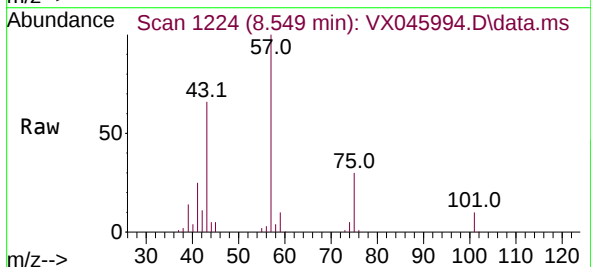
Instrument :
MSVOA_X
ClientSampleId :
B-167-SB02

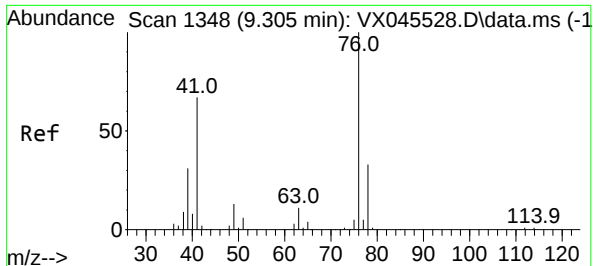
Tgt Ion: 75 Resp: 34
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.0#



#54
cis-1,3-Dichloropropene
Concen: 7.961 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. 0.183 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

Tgt Ion: 75 Resp: 9933
Ion Ratio Lower Upper
75 100
77 0.0 24.6 36.8#
39 45.6 48.4 72.6#





#57

1,3-Dichloropropane

Concen: 0.683 ug/l

RT: 9.482 min Scan# 1

Delta R.T. 0.177 min

Lab File: VX045994.D

Acq: 30 Apr 2025 13:42

Instrument :

MSVOA_X

ClientSampleId :

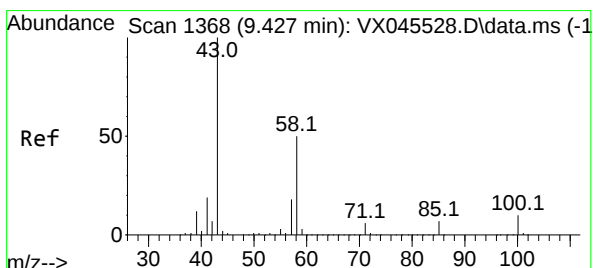
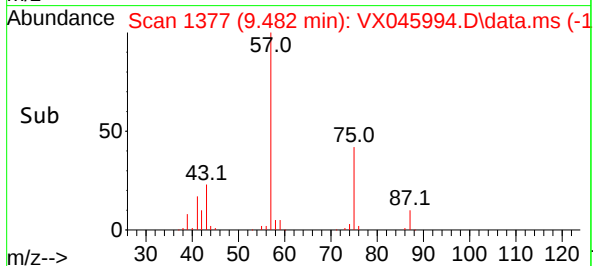
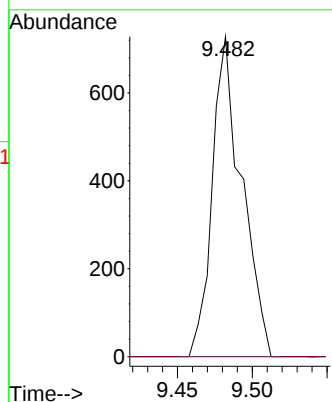
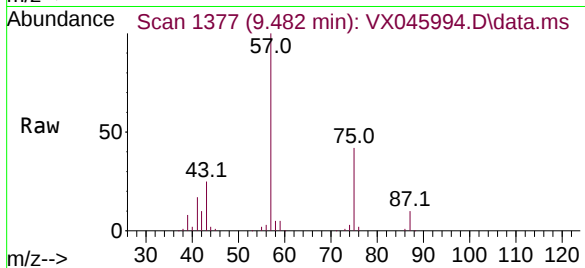
B-167-SB02

Tgt Ion: 76 Resp: 996

Ion Ratio Lower Upper

76 100

78 0.0 26.0 39.0#



#59

2-Hexanone

Concen: 8.151 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. 0.006 min

Lab File: VX045994.D

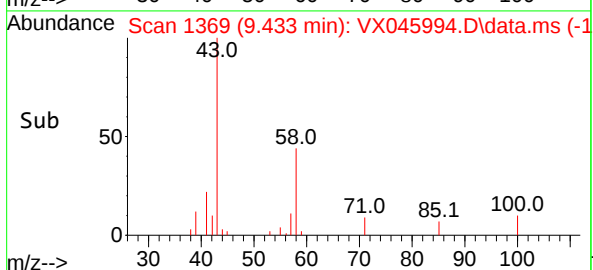
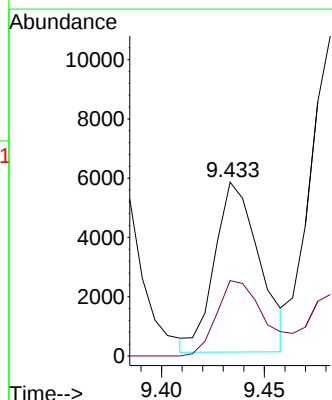
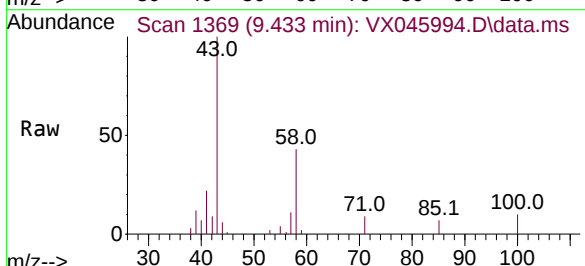
Acq: 30 Apr 2025 13:42

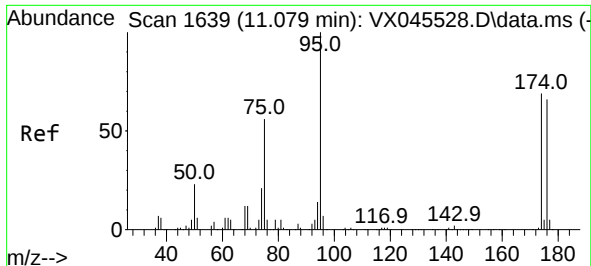
Tgt Ion: 43 Resp: 8686

Ion Ratio Lower Upper

43 100

58 48.7 24.9 74.6





#62

4-Bromofluorobenzene

Concen: 55.457 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX045994.D

Acq: 30 Apr 2025 13:42

Instrument :

MSVOA_X

ClientSampleId :

B-167-SB02

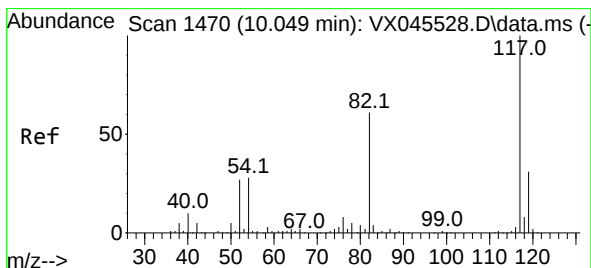
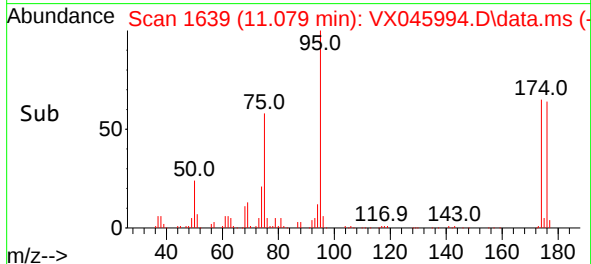
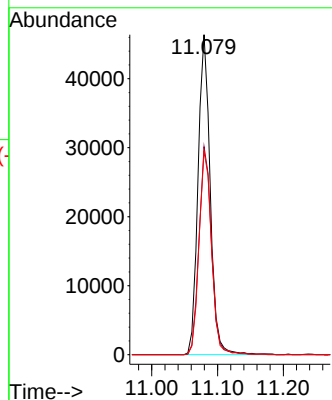
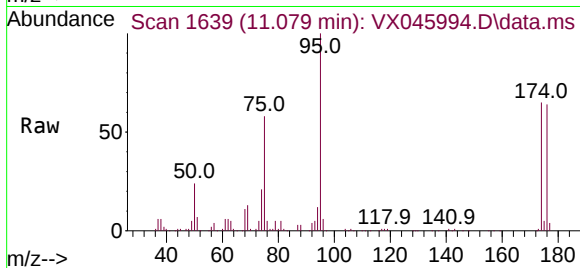
Tgt Ion: 95 Resp: 59351

Ion Ratio Lower Upper

95 100

174 66.9 0.0 135.8

176 65.5 0.0 131.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.006 min

Lab File: VX045994.D

Acq: 30 Apr 2025 13:42

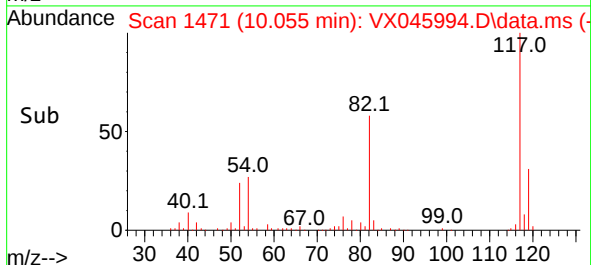
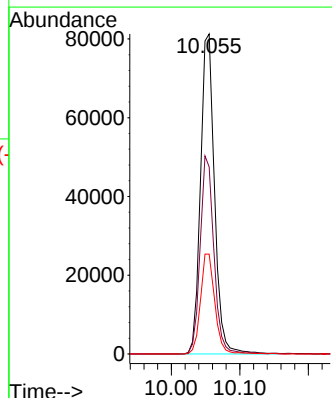
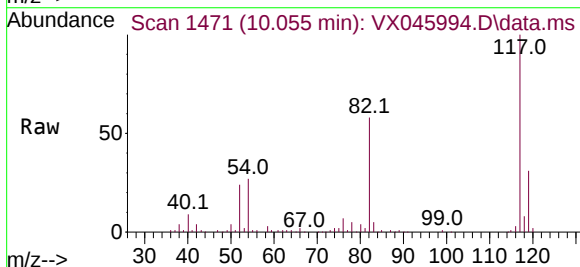
Tgt Ion: 117 Resp: 115892

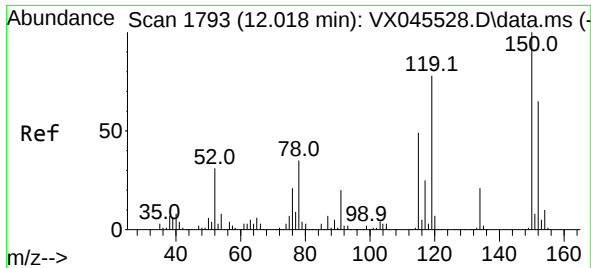
Ion Ratio Lower Upper

117 100

82 58.5 49.2 73.8

119 31.2 25.1 37.7

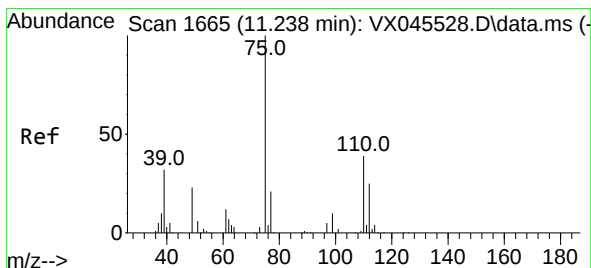
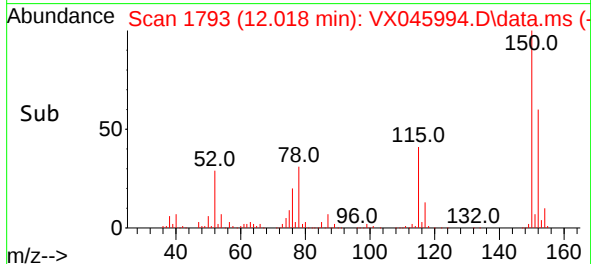
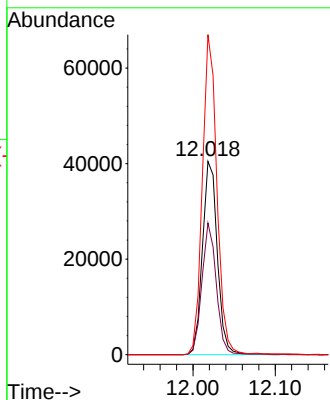
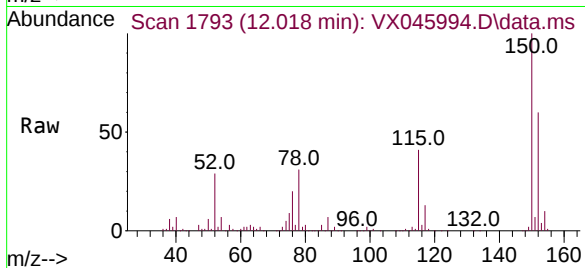




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.018 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VX045994.D
 Acq: 30 Apr 2025 13:42

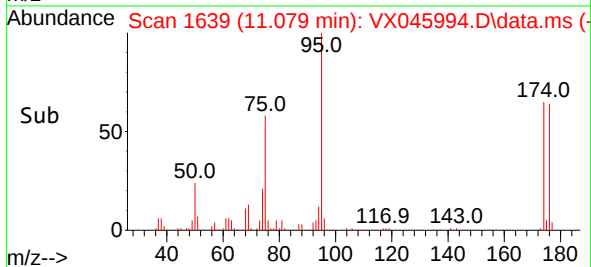
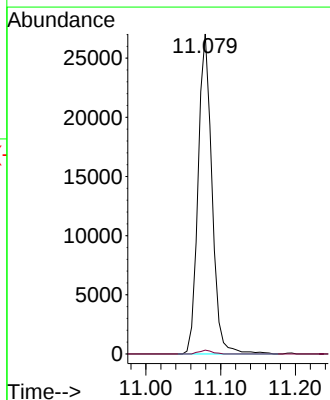
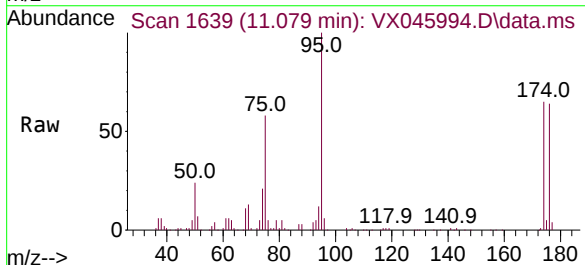
Instrument :
 MSVOA_X
 ClientSampleId :
 B-167-SB02

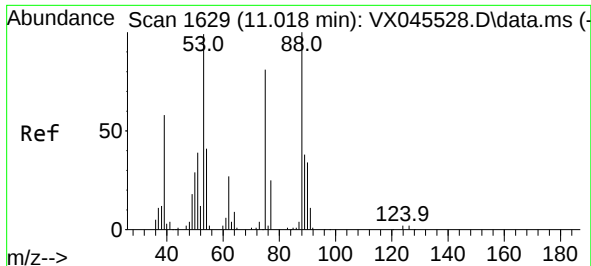
Tgt Ion:152 Resp: 51062
 Ion Ratio Lower Upper
 152 100
 115 65.8 46.9 140.7
 150 161.2 0.0 349.4



#76
 1,2,3-Trichloropropane
 Concen: 27.970 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. -0.158 min
 Lab File: VX045994.D
 Acq: 30 Apr 2025 13:42

Tgt Ion: 75 Resp: 34837
 Ion Ratio Lower Upper
 75 100
 77 1.1 20.0 59.9#

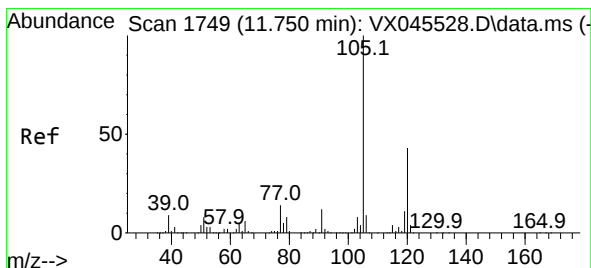
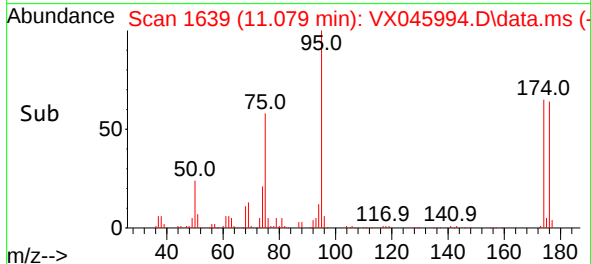
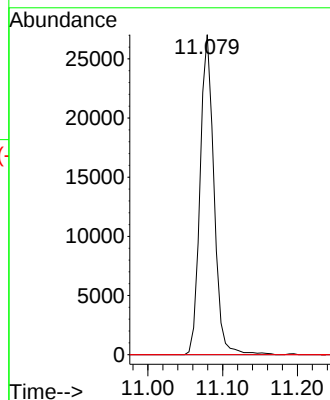
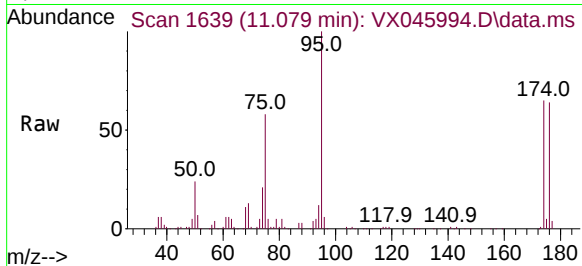




#81
trans-1,4-Dichloro-2-butene
Concen: 94.926 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

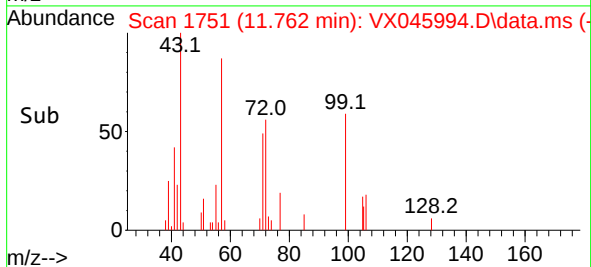
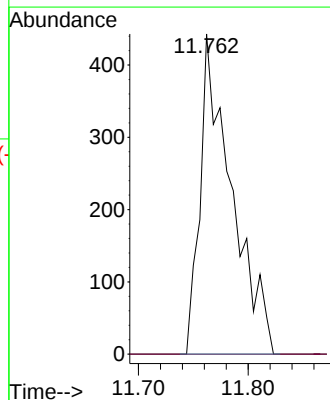
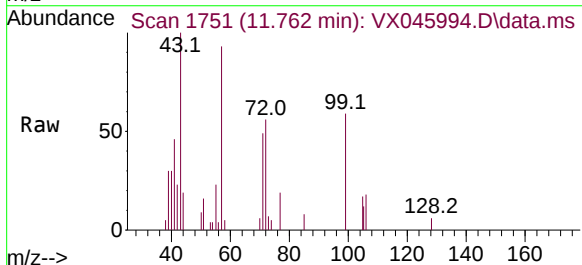
Instrument :
MSVOA_X
ClientSampleId :
B-167-SB02

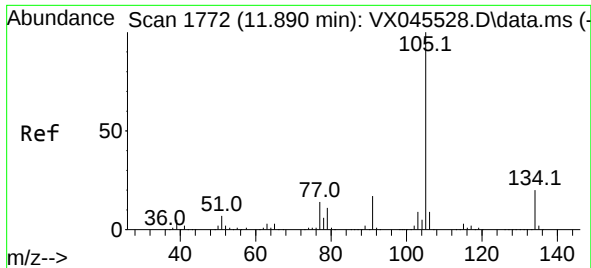
Tgt Ion: 75 Resp: 34837
Ion Ratio Lower Upper
75 100
53 0.0 101.8 152.6#
89 0.0 37.2 55.8#



#84
1,2,4-Trimethylbenzene
Concen: 0.259 ug/l
RT: 11.762 min Scan# 1751
Delta R.T. 0.012 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

Tgt Ion: 105 Resp: 880
Ion Ratio Lower Upper
105 100
120 0.0 21.4 64.3#

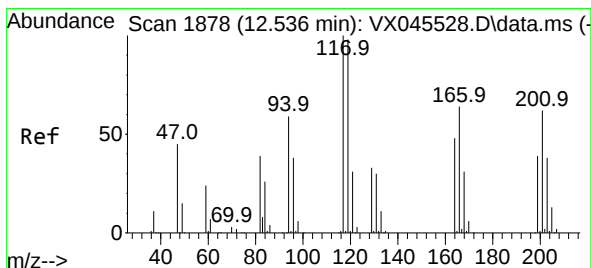
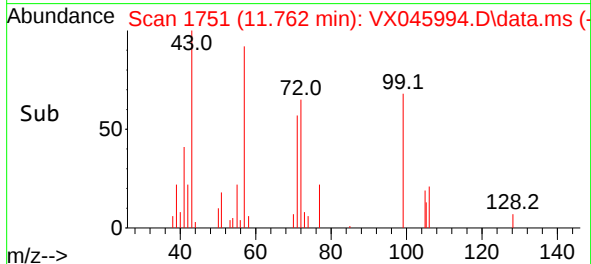
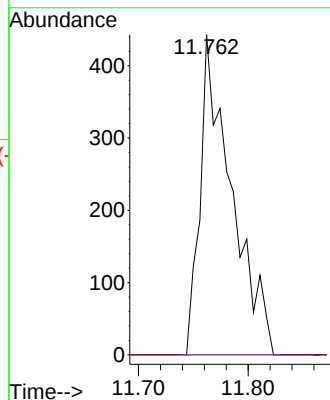
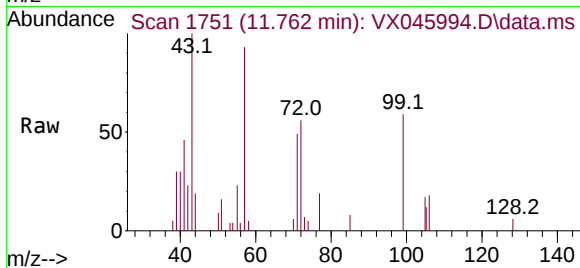




#85
sec-Butylbenzene
Concen: 0.214 ug/l
RT: 11.762 min Scan# 11762
Delta R.T. -0.128 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

Instrument :
MSVOA_X
ClientSampleId :
B-167-SB02

Tgt Ion:105 Resp: 880
Ion Ratio Lower Upper
105 100
134 0.0 9.6 28.6#



#90
Hexachloroethane
Concen: 0.324 ug/l
RT: 12.603 min Scan# 1889
Delta R.T. 0.067 min
Lab File: VX045994.D
Acq: 30 Apr 2025 13:42

Tgt Ion:117 Resp: 189
Ion Ratio Lower Upper
117 100
201 0.0 31.2 93.6#

