

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX041625\
 Data File : VX045802.D
 Acq On : 16 Apr 2025 13:02
 Operator : JC/MD
 Sample : PB167604TB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB167604TB

Quant Time: Apr 17 01:36:11 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)

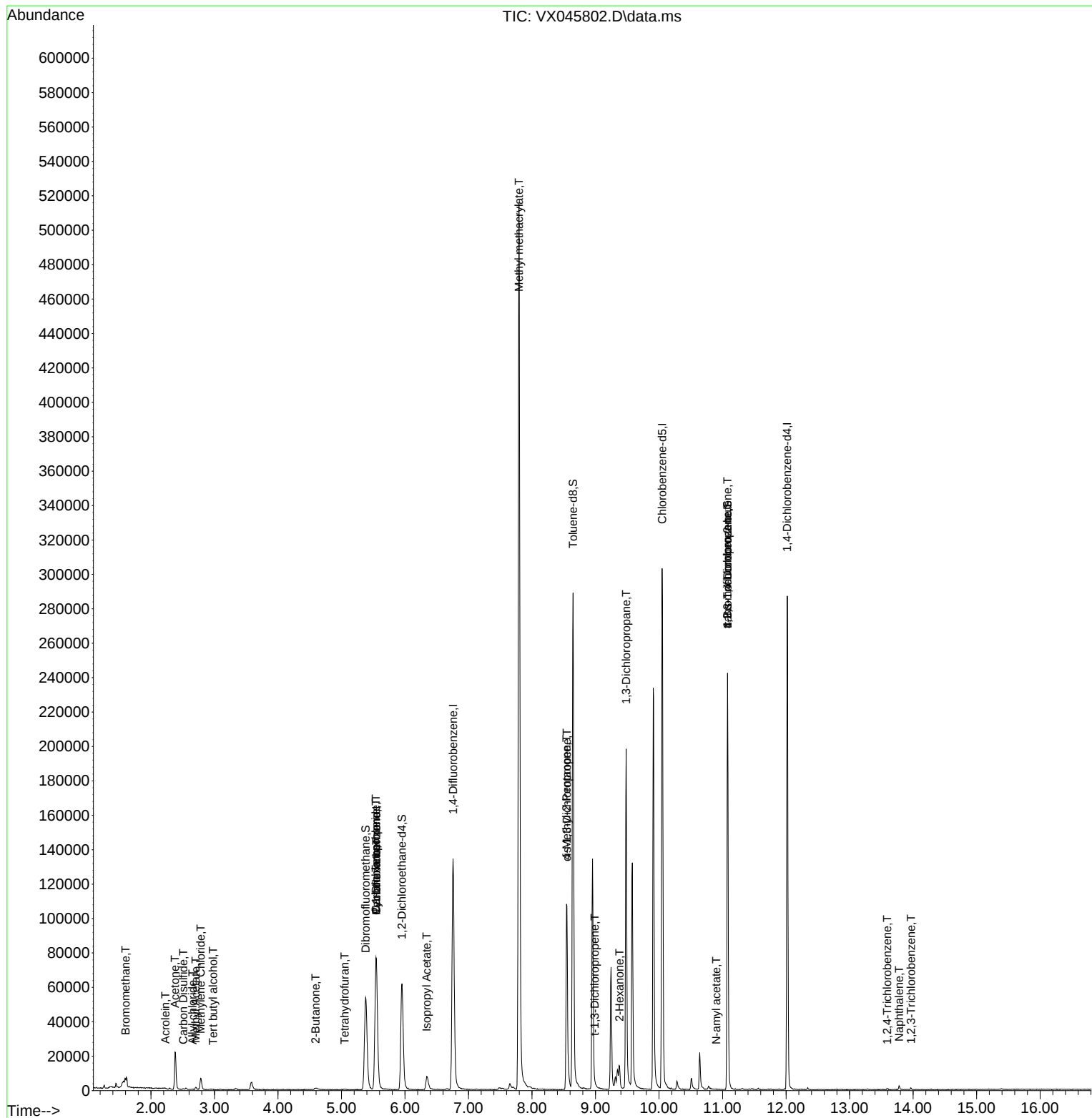
Internal Standards						
1) Pentafluorobenzene	5.550	168	65472	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	129656	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	123685	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	51735	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	65177	54.436	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.880%			
35) Dibromofluoromethane	5.379	113	47176	51.283	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.560%			
50) Toluene-d8	8.647	98	163968	51.067	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.140%			
62) 4-Bromofluorobenzene	11.079	95	63658	54.429	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 108.860%			
Target Compounds					Qvalue	
5) Bromomethane	1.599	94	137	0.314	ug/l	93
11) Tert butyl alcohol	2.977	59	291	1.808	ug/l #	72
13) Acrolein	2.227	56	117	0.528	ug/l #	68
14) Allyl chloride	2.654	41	351	0.235	ug/l #	77
16) Acetone	2.379	43	24029	48.874	ug/l	91
17) Carbon Disulfide	2.507	76	576	0.297	ug/l #	76
18) Methyl Acetate	2.703	43	1841	1.626	ug/l #	85
20) Methylene Chloride	2.782	84	3212	3.490	ug/l	95
25) 2-Butanone	4.592	43	2377	3.303	ug/l	92
29) Tetrahydrofuran	5.050	42	309	0.662	ug/l #	43
31) Cyclohexane	5.550	56	2013	1.371	ug/l #	5
36) 1,1-Dichloropropene	5.543	75	6664	5.365	ug/l #	50
38) Carbon Tetrachloride	5.543	117	7665	5.710	ug/l #	17
43) Isopropyl Acetate	6.342	43	11158	4.703	ug/l	98
48) Methyl methacrylate	7.793	41	51739	42.240	ug/l #	50
51) 4-Methyl-2-Pentanone	8.543	43	43423	27.611	ug/l #	52
53) t-1,3-Dichloropropene	8.988	75	63	2.332	ug/l #	43
54) cis-1,3-Dichloropropene	8.549	75	16749	12.284	ug/l #	66
57) 1,3-Dichloropropane	9.482	76	1646	1.033	ug/l #	42
59) 2-Hexanone	9.378	43	12912	11.087	ug/l #	28
74) N-amyl acetate	10.902	43	485	0.245	ug/l #	46
76) 1,2,3-Trichloropropane	11.079	75	36558	28.970	ug/l #	37
81) trans-1,4-Dichloro-2-b...	11.079	75	36558	98.320	ug/l #	1
93) 1,2,4-Trichlorobenzene	13.591	180	335	0.347	ug/l #	80
95) Naphthalene	13.780	128	2008	0.559	ug/l #	90
96) 1,2,3-Trichlorobenzene	13.969	180	258	0.255	ug/l	64

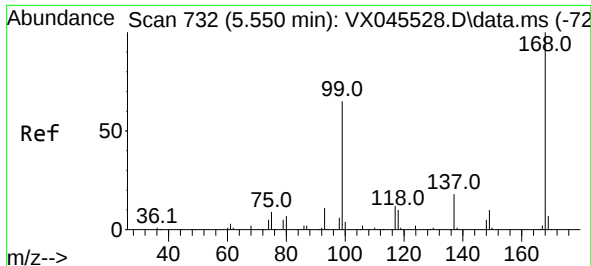
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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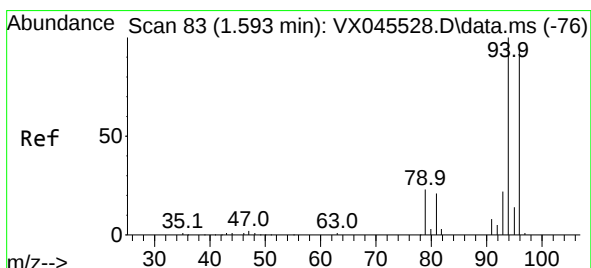
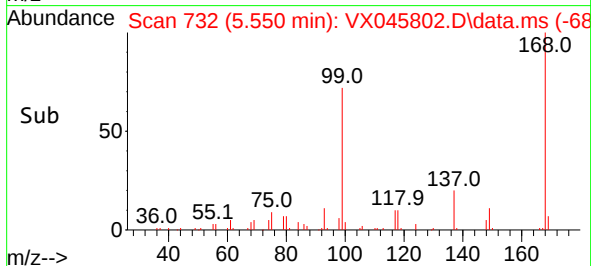
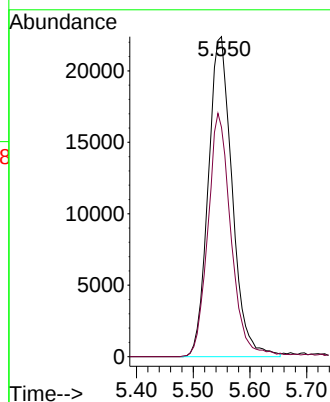
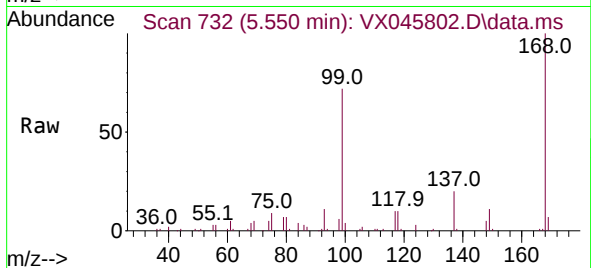




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX045802.D
Acq: 16 Apr 2025 13:02

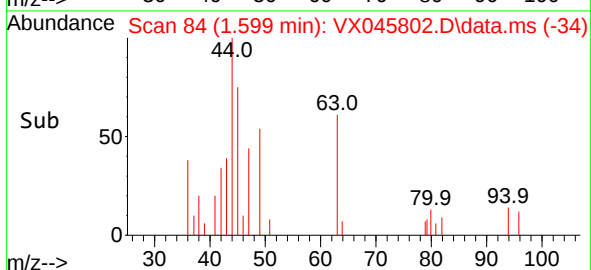
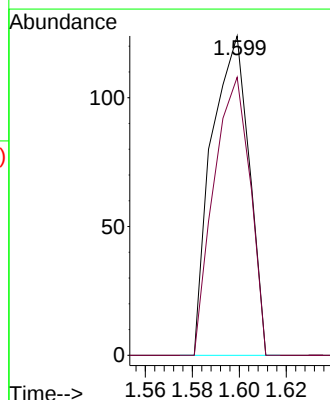
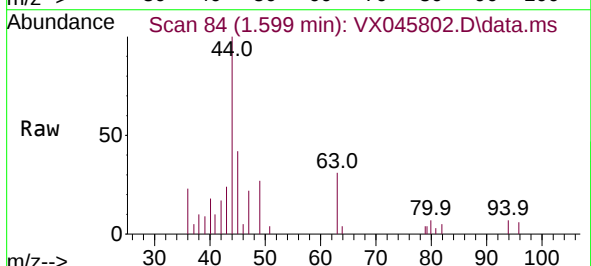
Instrument :
MSVOA_X
ClientSampleId :
PB167604TB

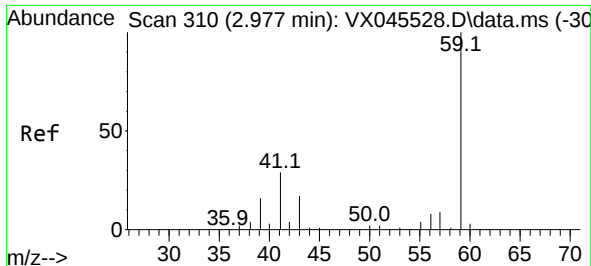
Tgt Ion:168 Resp: 65472
Ion Ratio Lower Upper
168 100
99 71.7 52.3 78.5



#5
Bromomethane
Concen: 0.314 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.006 min
Lab File: VX045802.D
Acq: 16 Apr 2025 13:02

Tgt Ion: 94 Resp: 137
Ion Ratio Lower Upper
94 100
96 87.1 74.8 112.2

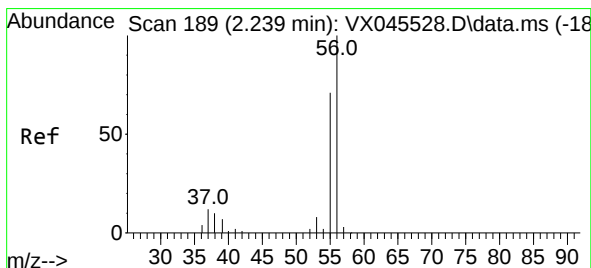
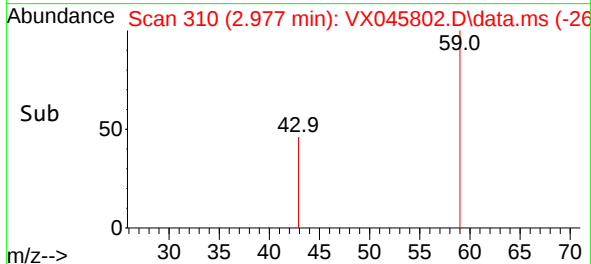
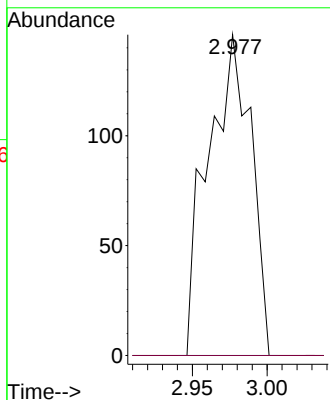
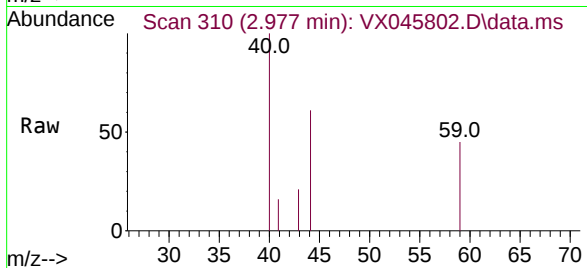




#11
Tert butyl alcohol
Concen: 1.808 ug/l
RT: 2.977 min Scan# 310
Delta R.T. -0.000 min
Lab File: VX045802.D
Acq: 16 Apr 2025 13:02

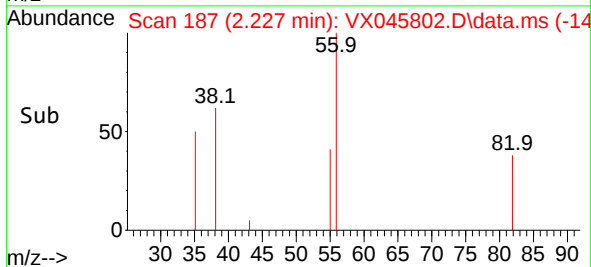
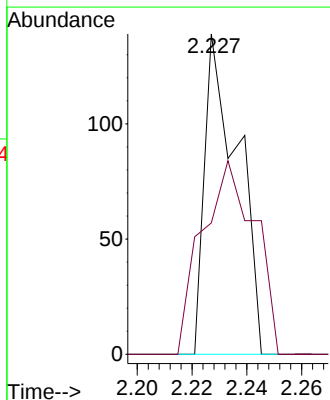
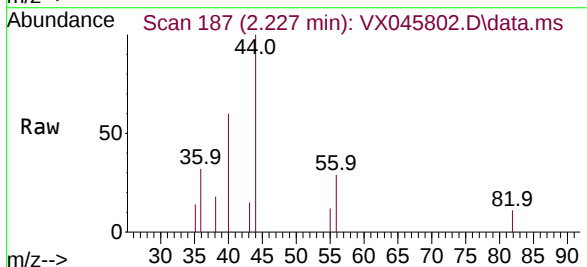
Instrument :
MSVOA_X
ClientSampleId :
PB167604TB

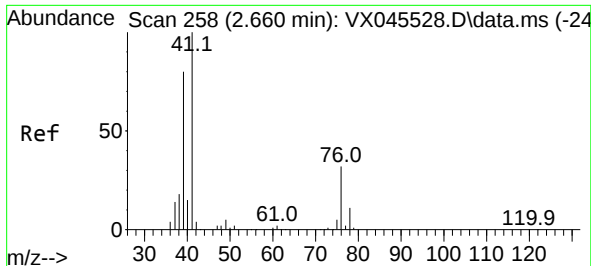
Tgt Ion: 59 Resp: 291
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#13
Acrolein
Concen: 0.528 ug/l
RT: 2.227 min Scan# 187
Delta R.T. -0.012 min
Lab File: VX045802.D
Acq: 16 Apr 2025 13:02

Tgt Ion: 56 Resp: 117
Ion Ratio Lower Upper
56 100
55 96.6 56.2 84.2#

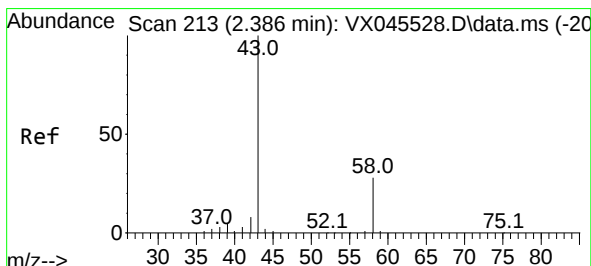
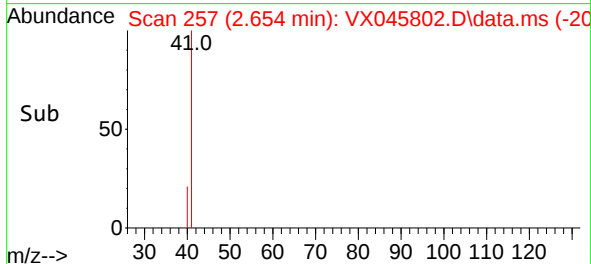
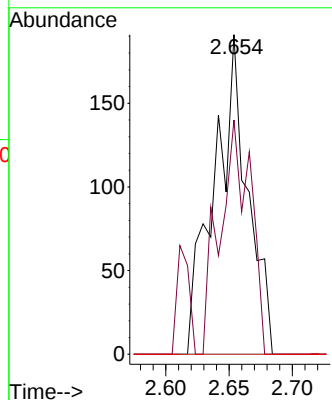
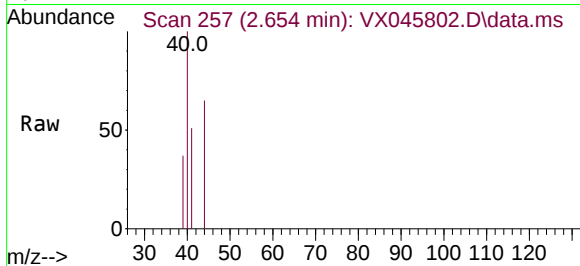




#14
 Allyl chloride
 Concen: 0.235 ug/l
 RT: 2.654 min Scan# 212
 Delta R.T. -0.006 min
 Lab File: VX045802.D
 Acq: 16 Apr 2025 13:02

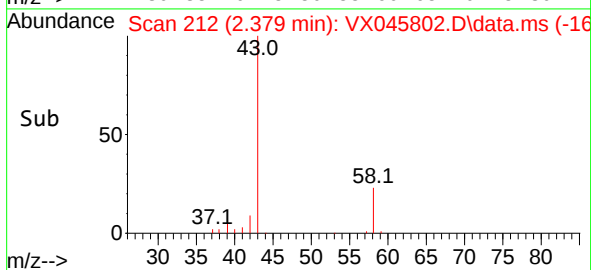
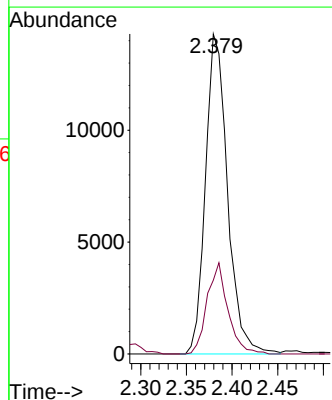
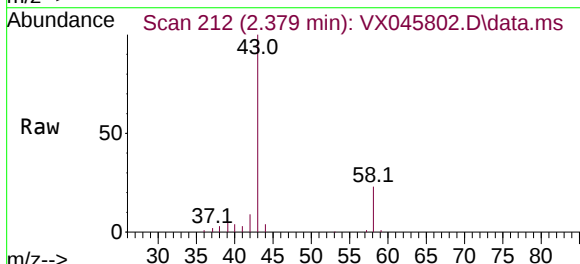
Instrument :
 MSVOA_X
 ClientSampleId :
 PB167604TB

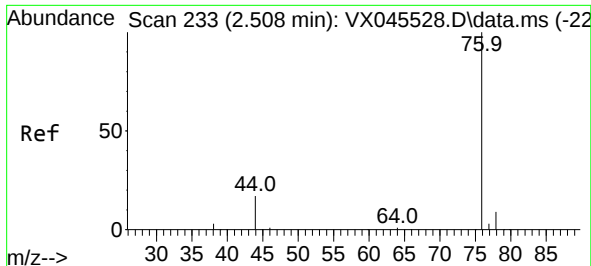
Tgt Ion: 41 Resp: 351
 Ion Ratio Lower Upper
 41 100
 39 67.5 60.2 90.2
 76 0.0 24.6 36.8#



#16
 Acetone
 Concen: 48.874 ug/l
 RT: 2.379 min Scan# 212
 Delta R.T. -0.006 min
 Lab File: VX045802.D
 Acq: 16 Apr 2025 13:02

Tgt Ion: 43 Resp: 24029
 Ion Ratio Lower Upper
 43 100
 58 23.0 22.3 33.5

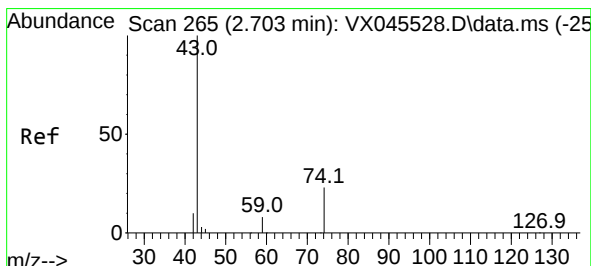
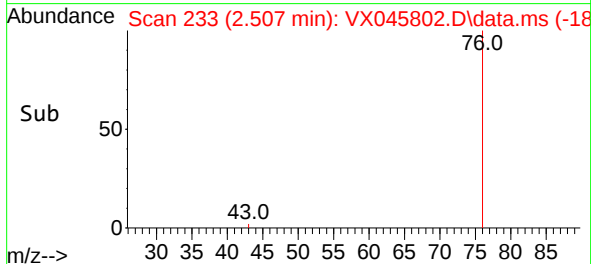
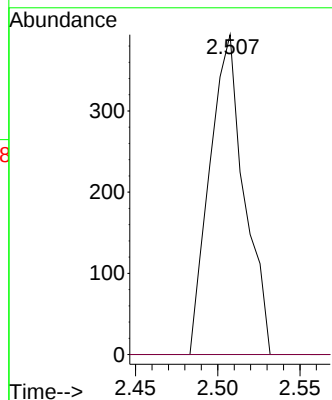
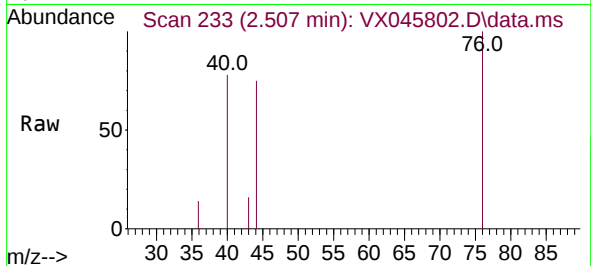




#17
Carbon Disulfide
Concen: 0.297 ug/l
RT: 2.507 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX045802.D
Acq: 16 Apr 2025 13:02

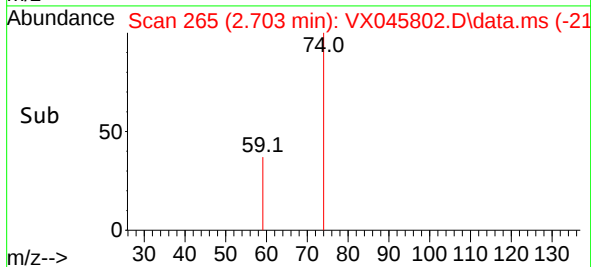
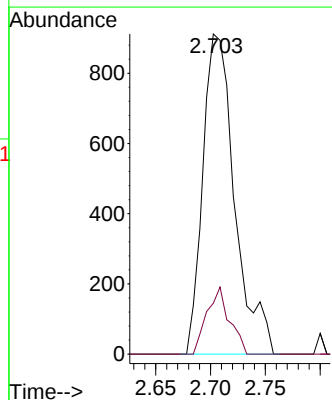
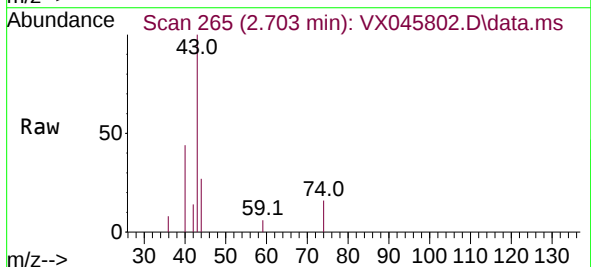
Instrument :
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ClientSampleId :
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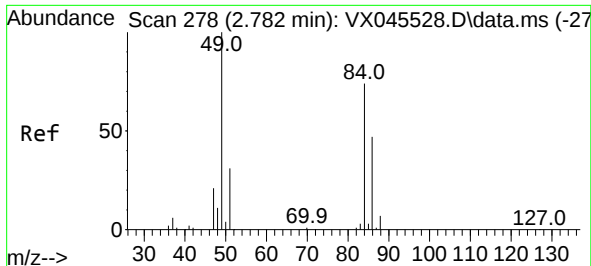
Tgt Ion: 76 Resp: 576
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.6#



#18
Methyl Acetate
Concen: 1.626 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX045802.D
Acq: 16 Apr 2025 13:02

Tgt Ion: 43 Resp: 1841
Ion Ratio Lower Upper
43 100
74 14.9 17.5 26.3#



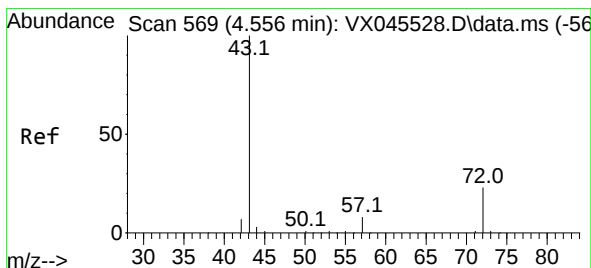
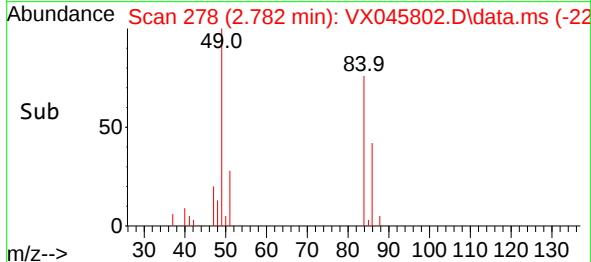
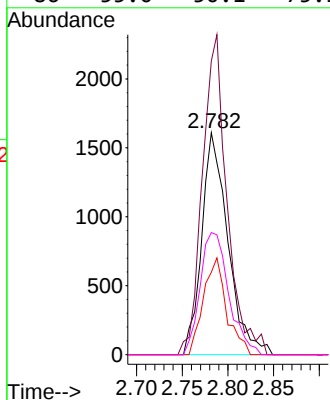
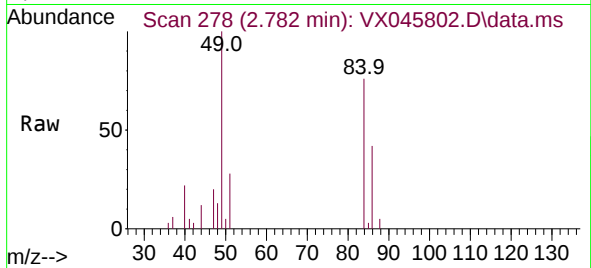


#20
Methylene Chloride
Concen: 3.490 ug/l
RT: 2.782 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX045802.D
Acq: 16 Apr 2025 13:02

Instrument :
MSVOA_X
ClientSampleId :
PB167604TB

Tgt Ion: 84 Resp: 3212

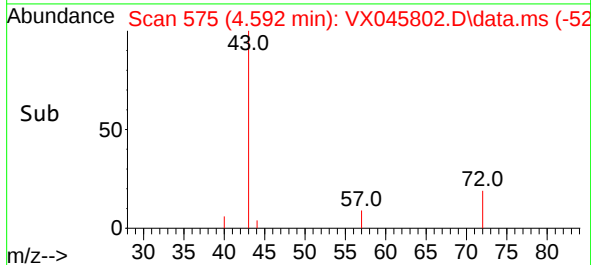
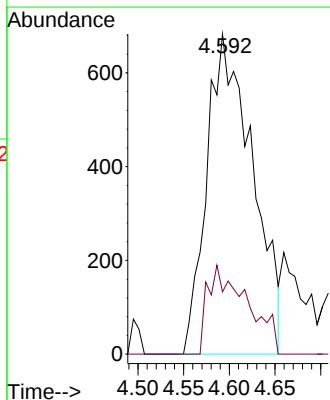
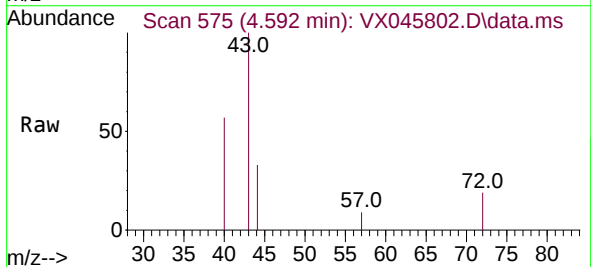
Ion	Ratio	Lower	Upper
84	100		
49	132.4	107.5	161.3
51	37.1	33.0	49.6
86	55.0	50.1	75.1

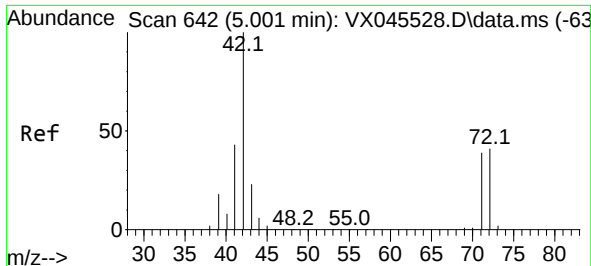


#25
2-Butanone
Concen: 3.303 ug/l
RT: 4.592 min Scan# 575
Delta R.T. 0.036 min
Lab File: VX045802.D
Acq: 16 Apr 2025 13:02

Tgt Ion: 43 Resp: 2377

Ion	Ratio	Lower	Upper
43	100		
72	19.5	18.6	28.0





#29

Tetrahydrofuran

Concen: 0.662 ug/l

RT: 5.050 min Scan# 61

Delta R.T. 0.049 min

Lab File: VX045802.D

Acq: 16 Apr 2025 13:02

Instrument :

MSVOA_X

ClientSampleId :

PB167604TB

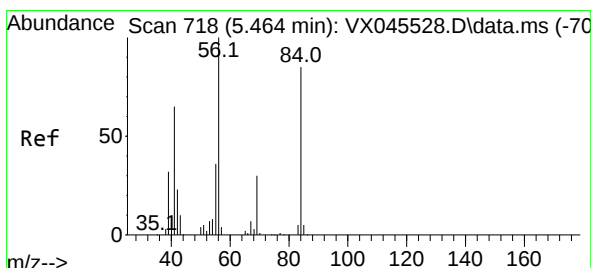
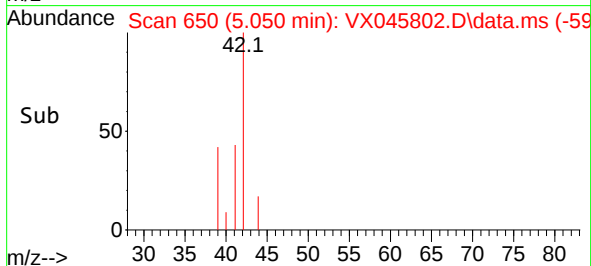
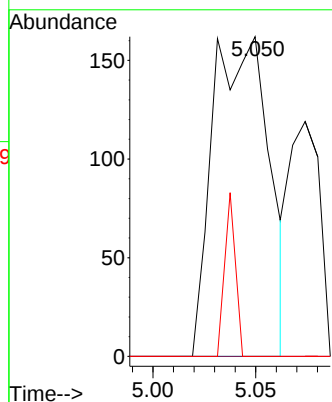
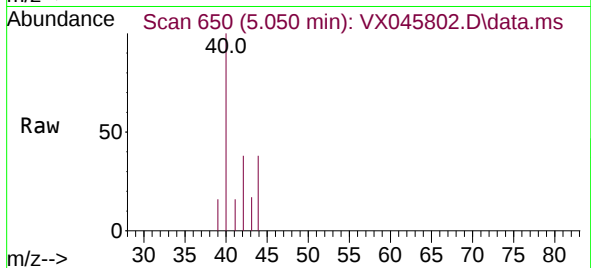
Tgt Ion: 42 Resp: 309

Ion Ratio Lower Upper

42 100

72 0.0 33.4 50.0#

71 9.7 31.4 47.0#



#31

Cyclohexane

Concen: 1.371 ug/l

RT: 5.550 min Scan# 732

Delta R.T. 0.085 min

Lab File: VX045802.D

Acq: 16 Apr 2025 13:02

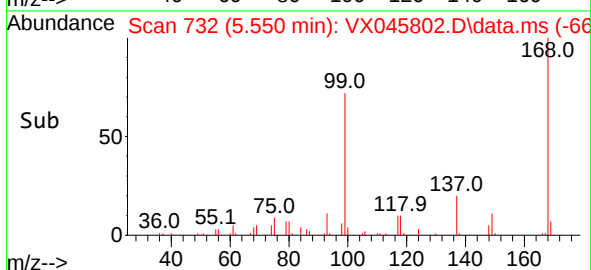
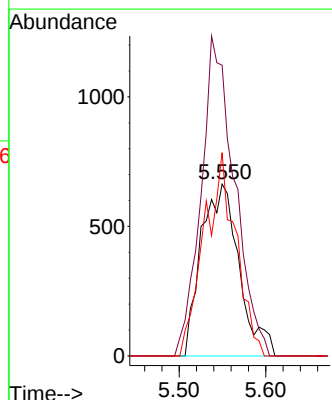
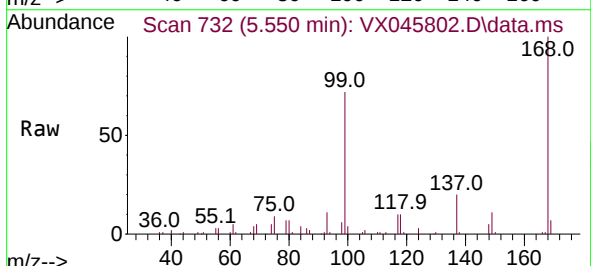
Tgt Ion: 56 Resp: 2013

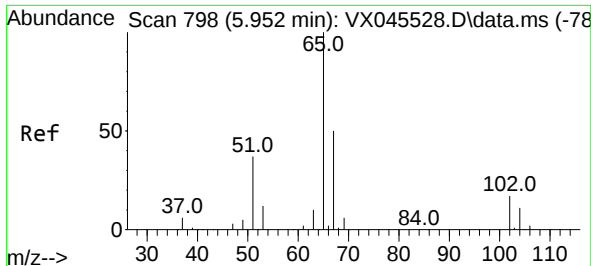
Ion Ratio Lower Upper

56 100

69 169.2 23.6 35.4#

84 118.4 67.7 101.5#





#33

1,2-Dichloroethane-d4

Concen: 54.436 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX045802.D

Acq: 16 Apr 2025 13:02

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MSVOA_X

ClientSampleId :

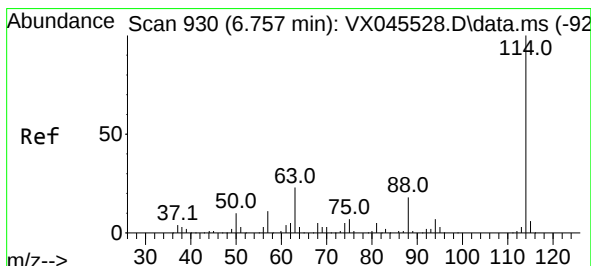
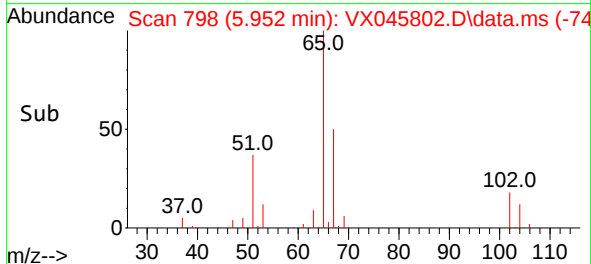
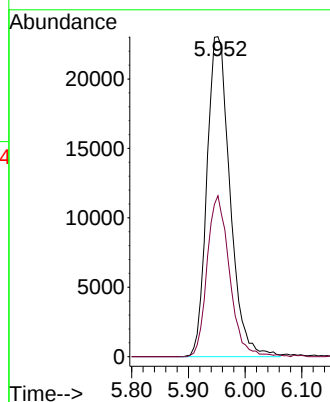
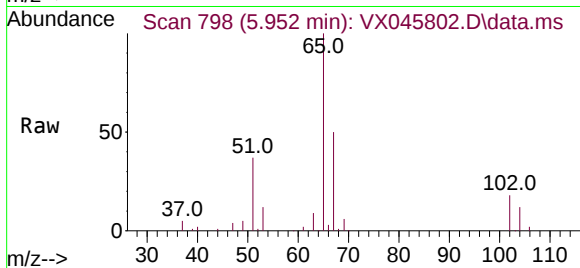
PB167604TB

Tgt Ion: 65 Resp: 65177

Ion Ratio Lower Upper

65 100

67 48.8 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: VX045802.D

Acq: 16 Apr 2025 13:02

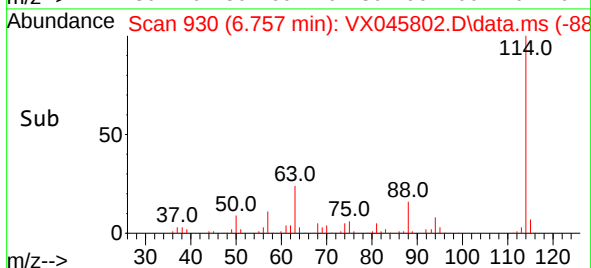
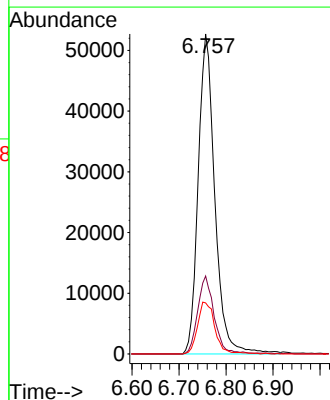
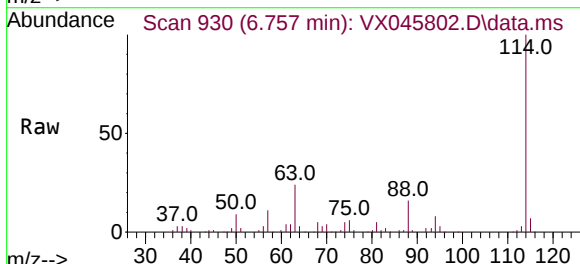
Tgt Ion: 114 Resp: 129656

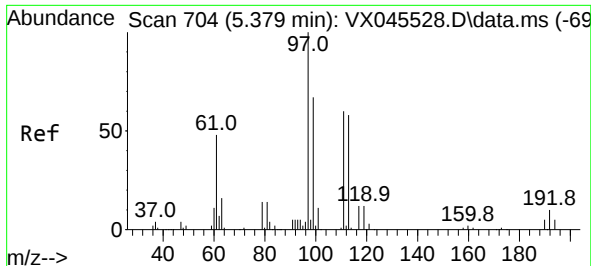
Ion Ratio Lower Upper

114 100

63 24.3 0.0 46.8

88 15.9 0.0 35.4

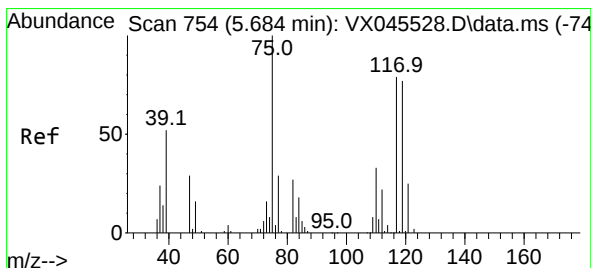
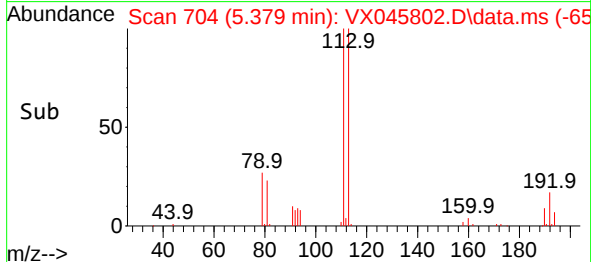
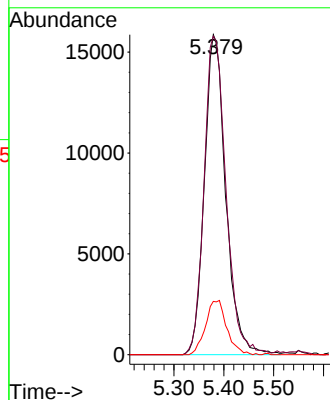
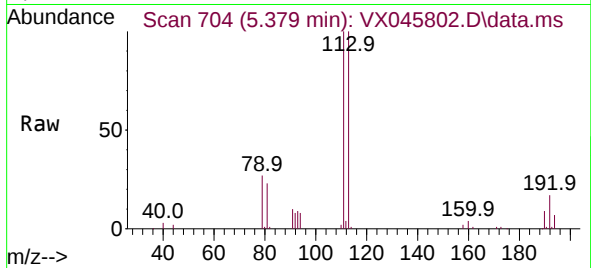




#35
Dibromofluoromethane
Concen: 51.283 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX045802.D
Acq: 16 Apr 2025 13:02

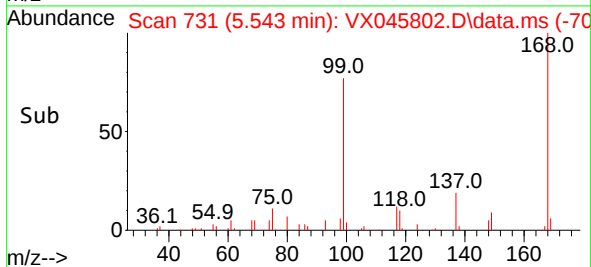
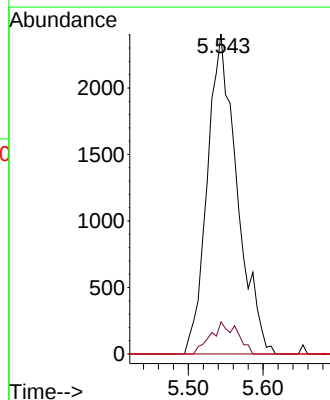
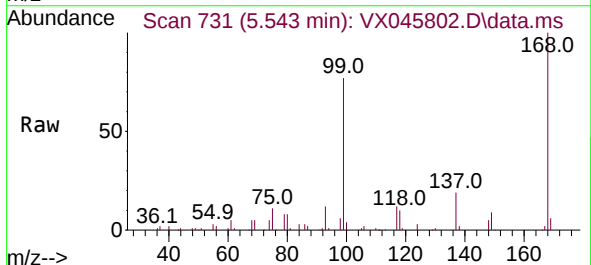
Instrument :
MSVOA_X
ClientSampleId :
PB167604TB

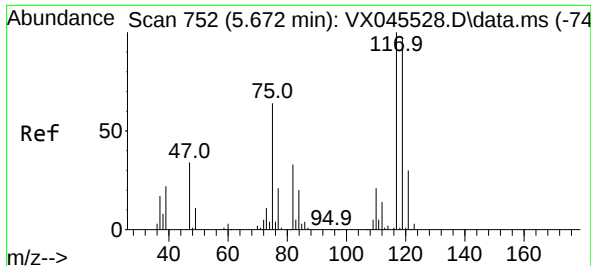
Tgt Ion:113 Resp: 47176
Ion Ratio Lower Upper
113 100
111 102.3 81.8 122.6
192 16.8 13.8 20.6



#36
1,1-Dichloropropene
Concen: 5.365 ug/l
RT: 5.543 min Scan# 731
Delta R.T. -0.140 min
Lab File: VX045802.D
Acq: 16 Apr 2025 13:02

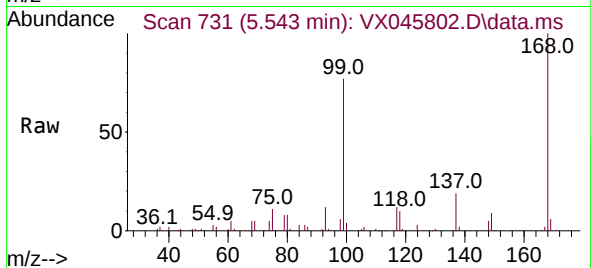
Tgt Ion: 75 Resp: 6664
Ion Ratio Lower Upper
75 100
110 8.9 16.9 50.6#
77 0.0 25.0 37.4#



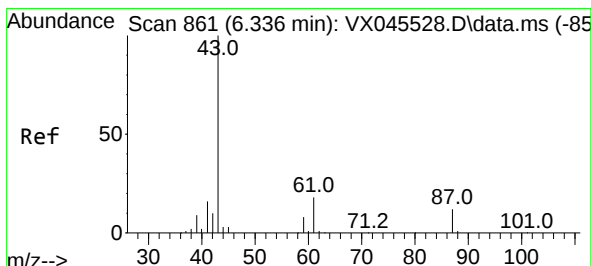
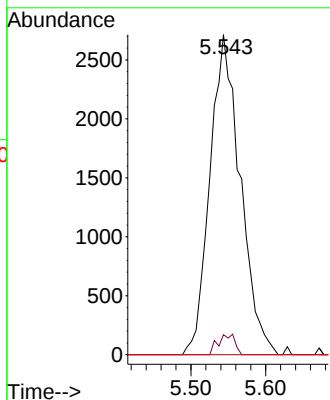
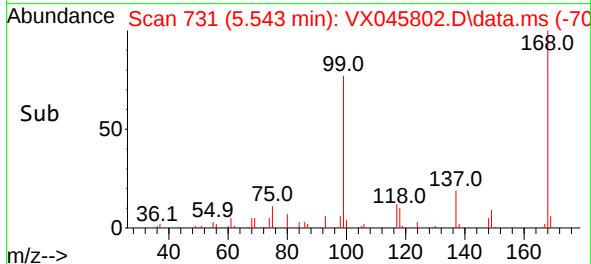


#38
Carbon Tetrachloride
Concen: 5.710 ug/l
RT: 5.543 min Scan# 711
Delta R.T. -0.128 min
Lab File: VX045802.D
Acq: 16 Apr 2025 13:02

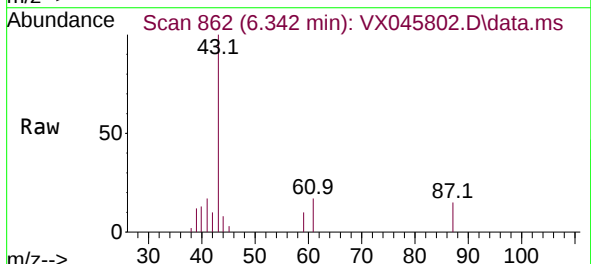
Instrument :
MSVOA_X
ClientSampleId :
PB167604TB



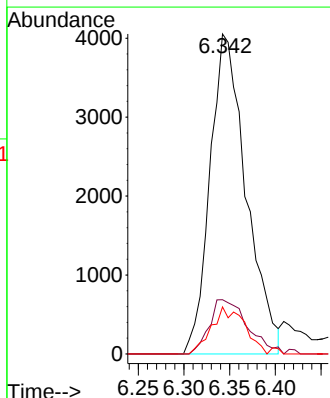
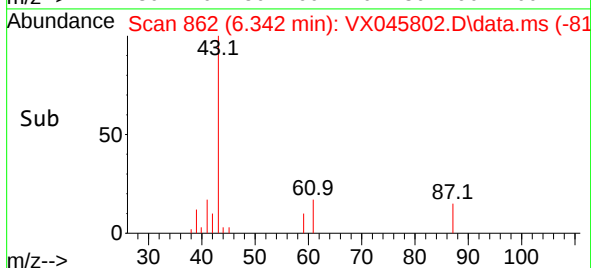
Tgt Ion:117 Resp: 7665
Ion Ratio Lower Upper
117 100
119 6.3 76.9 115.3#
121 0.0 24.2 36.2#

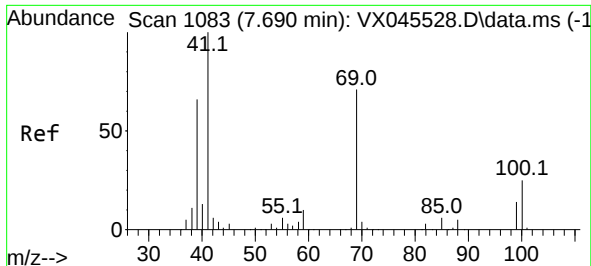


#43
Isopropyl Acetate
Concen: 4.703 ug/l
RT: 6.342 min Scan# 862
Delta R.T. 0.006 min
Lab File: VX045802.D
Acq: 16 Apr 2025 13:02



Tgt Ion: 43 Resp: 11158
Ion Ratio Lower Upper
43 100
61 17.8 14.1 21.1
87 13.4 9.2 13.8





#48

Methyl methacrylate

Concen: 42.240 ug/l

RT: 7.793 min Scan# 1100

Delta R.T. 0.103 min

Lab File: VX045802.D

Acq: 16 Apr 2025 13:02

Instrument :

MSVOA_X

ClientSampleId :

PB167604TB

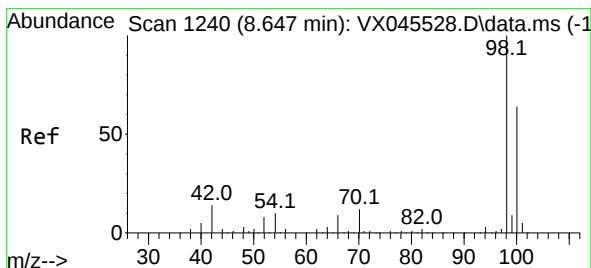
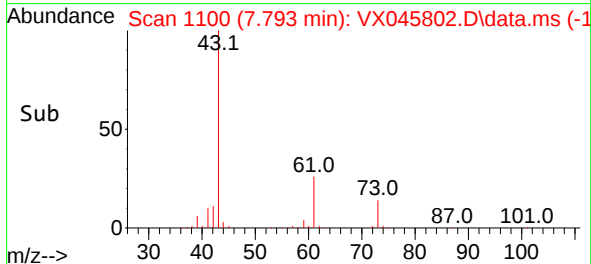
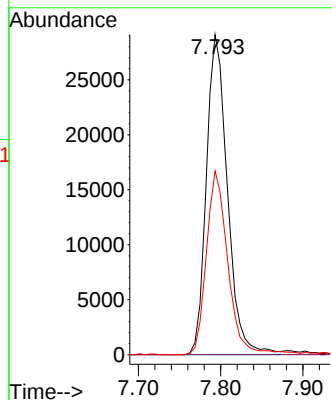
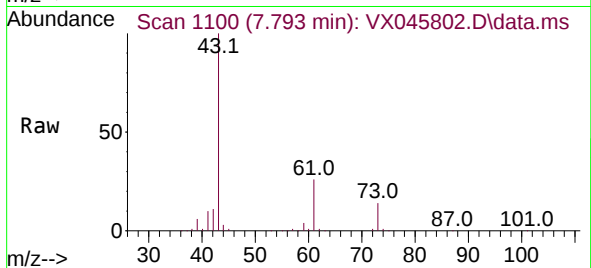
Tgt Ion: 41 Resp: 51739

Ion Ratio Lower Upper

41 100

69 0.0 58.2 87.2#

39 58.7 53.6 80.4



#50

Toluene-d8

Concen: 51.067 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX045802.D

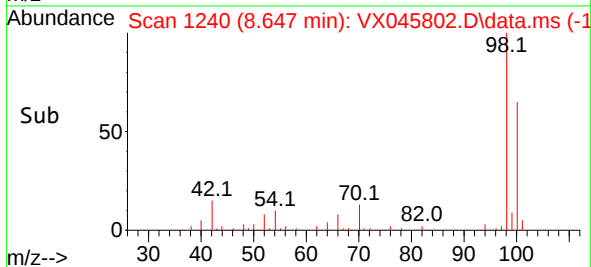
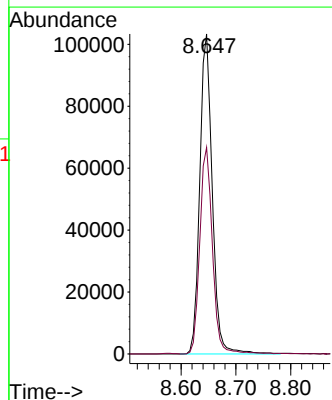
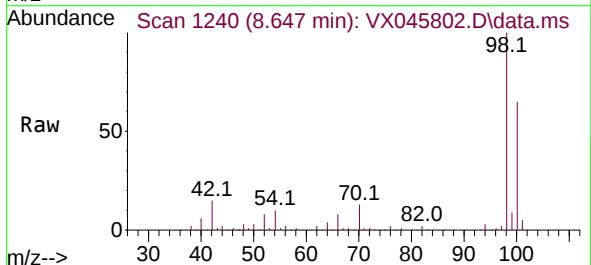
Acq: 16 Apr 2025 13:02

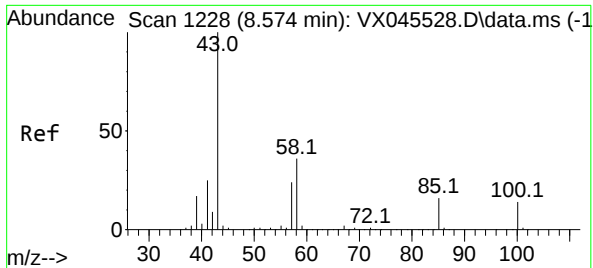
Tgt Ion: 98 Resp: 163968

Ion Ratio Lower Upper

98 100

100 65.6 52.2 78.4

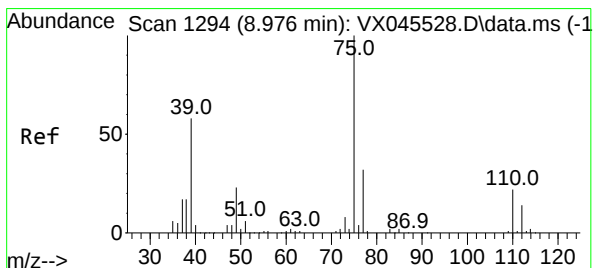
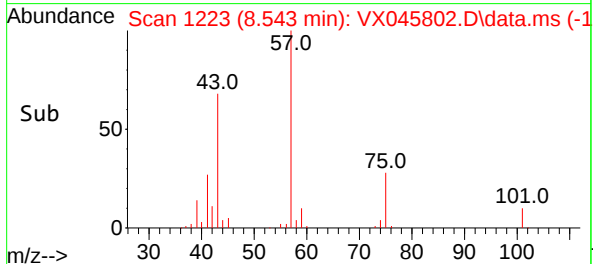
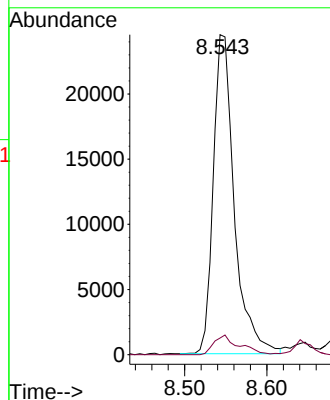
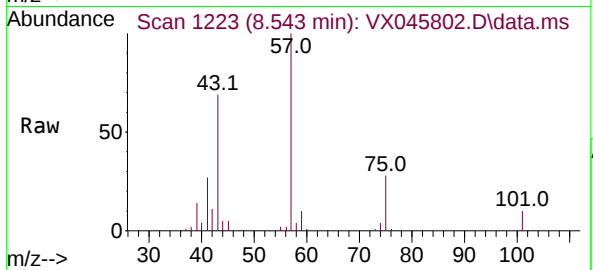




#51
4-Methyl-2-Pentanone
Concen: 27.611 ug/l
RT: 8.543 min Scan# 11
Delta R.T. -0.031 min
Lab File: VX045802.D
Acq: 16 Apr 2025 13:02

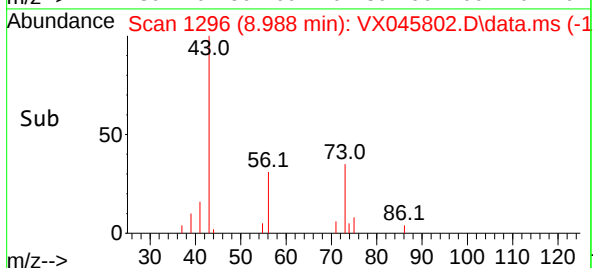
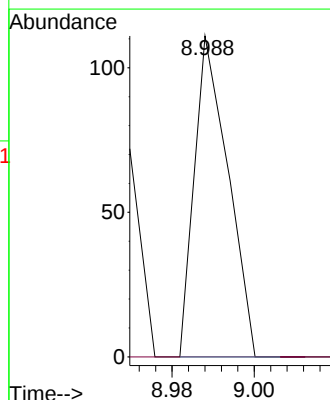
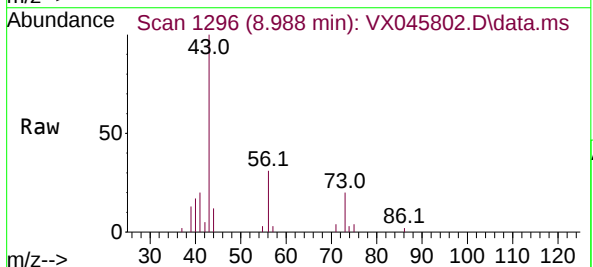
Instrument :
MSVOA_X
ClientSampleId :
PB167604TB

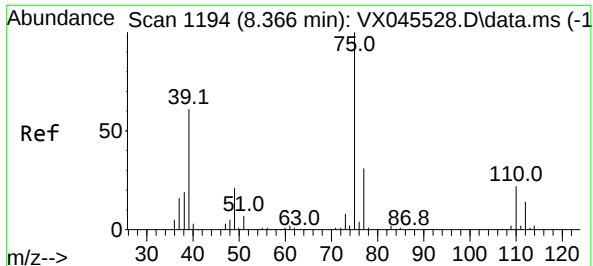
Tgt Ion: 43 Resp: 43423
Ion Ratio Lower Upper
43 100
58 7.4 28.5 42.7#



#53
t-1,3-Dichloropropene
Concen: 2.332 ug/l
RT: 8.988 min Scan# 1296
Delta R.T. 0.012 min
Lab File: VX045802.D
Acq: 16 Apr 2025 13:02

Tgt Ion: 75 Resp: 63
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.0#

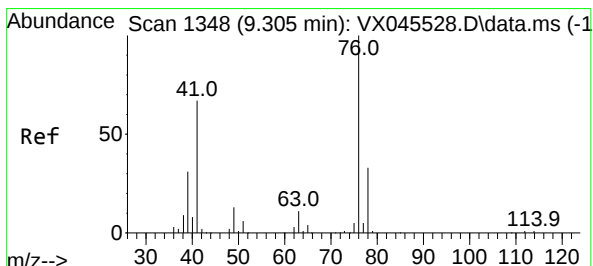
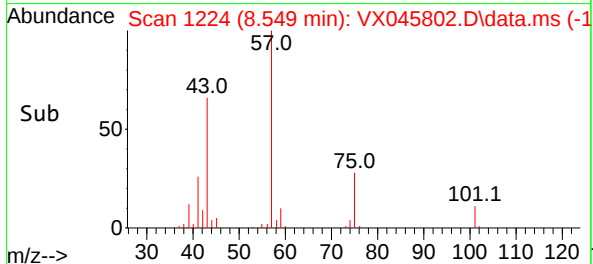
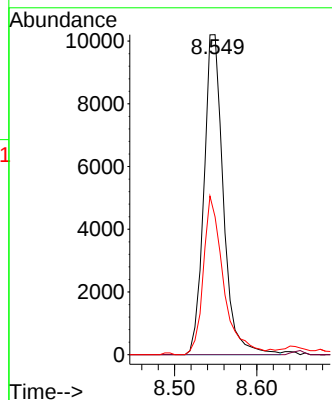
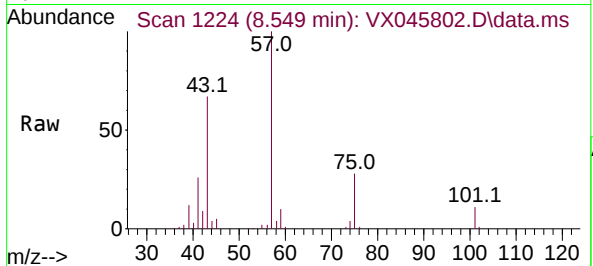




#54
 cis-1,3-Dichloropropene
 Concen: 12.284 ug/l
 RT: 8.549 min Scan# 1194
 Delta R.T. 0.183 min
 Lab File: VX045802.D
 Acq: 16 Apr 2025 13:02

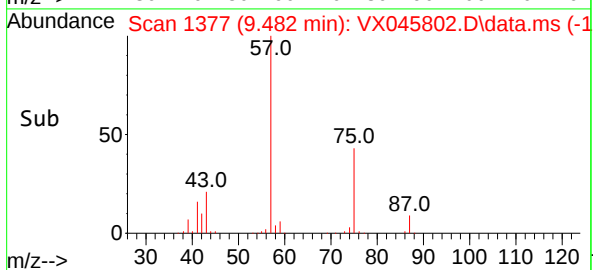
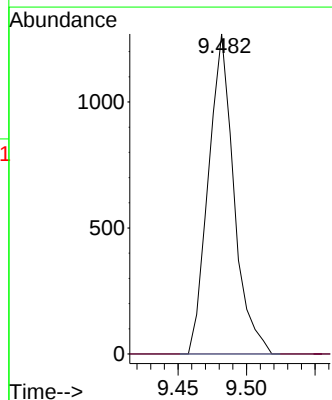
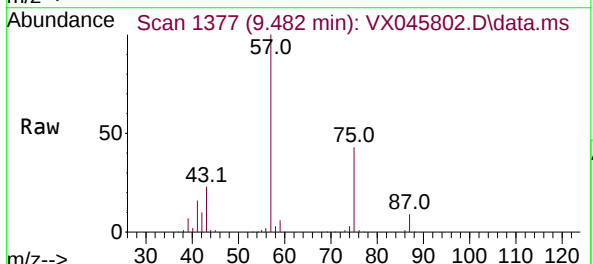
Instrument :
 MSVOA_X
 ClientSampleId :
 PB167604TB

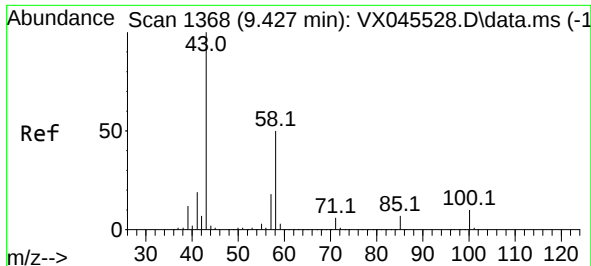
Tgt Ion: 75 Resp: 16749
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.6 36.8#
 39 43.1 48.4 72.6#



#57
 1,3-Dichloropropane
 Concen: 1.033 ug/l
 RT: 9.482 min Scan# 1377
 Delta R.T. 0.177 min
 Lab File: VX045802.D
 Acq: 16 Apr 2025 13:02

Tgt Ion: 76 Resp: 1646
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#





#59

2-Hexanone

Concen: 11.087 ug/l

RT: 9.378 min Scan# 11

Delta R.T. -0.049 min

Lab File: VX045802.D

Acq: 16 Apr 2025 13:02

Instrument :

MSVOA_X

ClientSampleId :

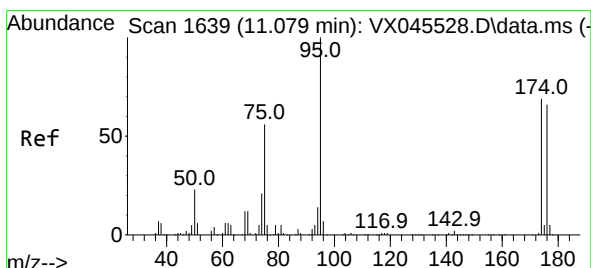
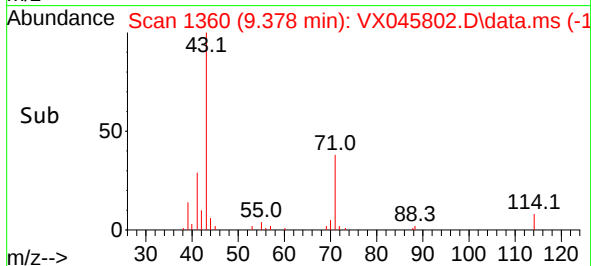
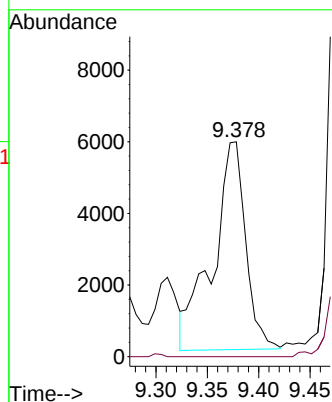
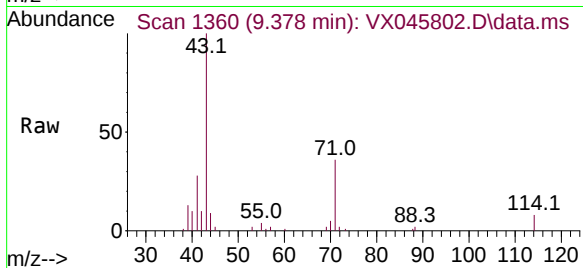
PB167604TB

Tgt Ion: 43 Resp: 12912

Ion Ratio Lower Upper

43 100

58 0.0 24.9 74.6#



#62

4-Bromofluorobenzene

Concen: 54.429 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX045802.D

Acq: 16 Apr 2025 13:02

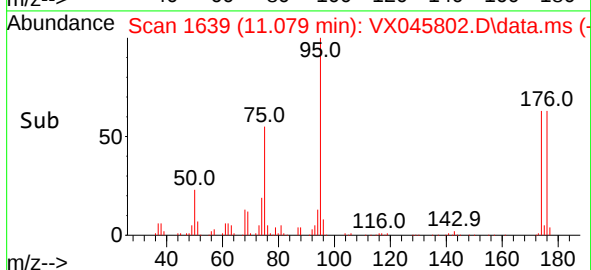
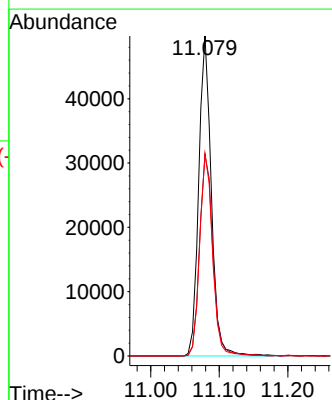
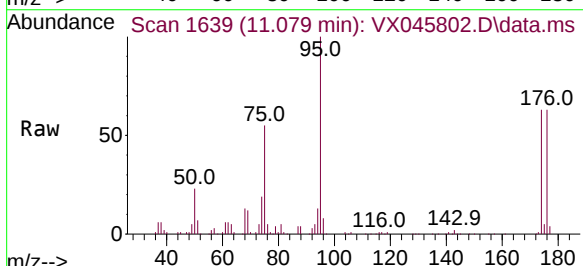
Tgt Ion: 95 Resp: 63658

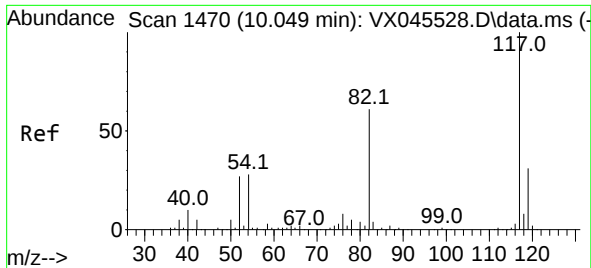
Ion Ratio Lower Upper

95 100

174 66.6 0.0 135.8

176 64.7 0.0 131.4

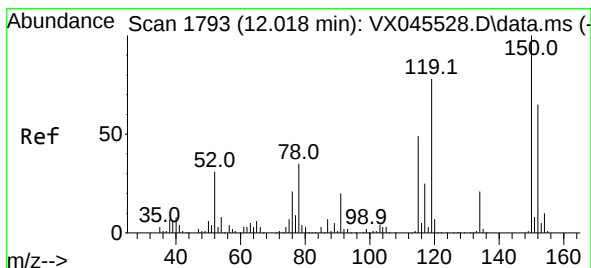
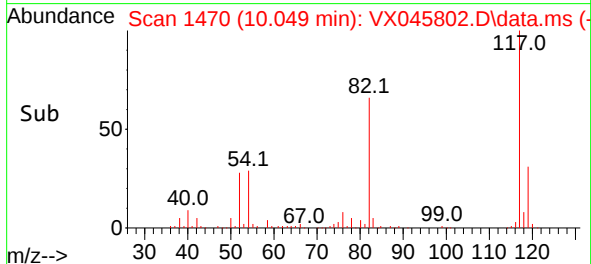
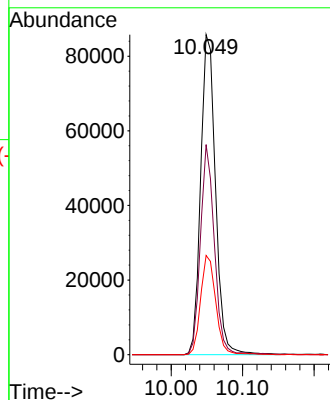
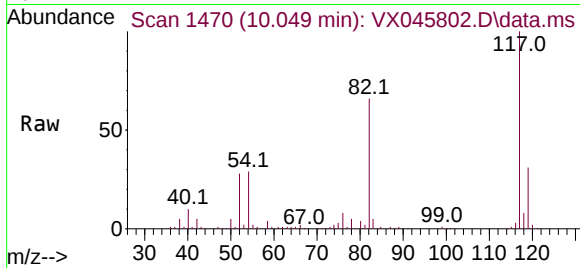




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX045802.D
Acq: 16 Apr 2025 13:02

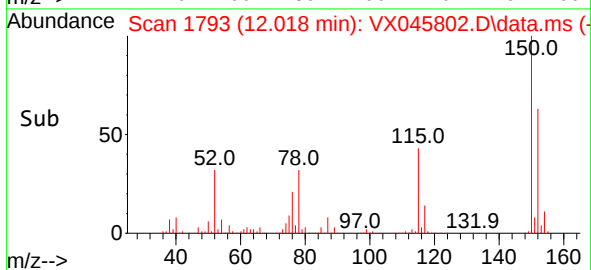
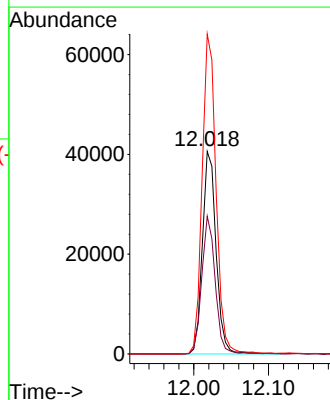
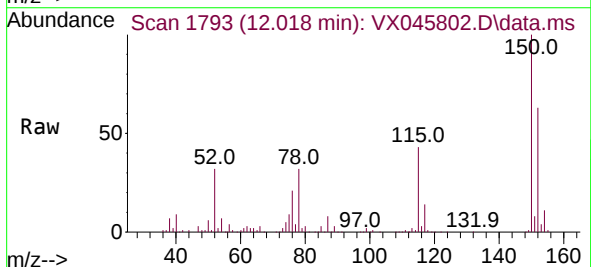
Instrument :
MSVOA_X
ClientSampleId :
PB167604TB

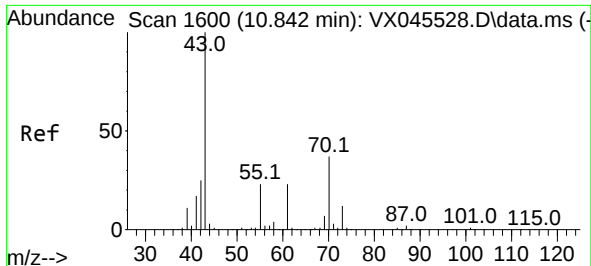
Tgt Ion:117 Resp: 123685
Ion Ratio Lower Upper
117 100
82 65.6 49.2 73.8
119 31.0 25.1 37.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045802.D
Acq: 16 Apr 2025 13:02

Tgt Ion:152 Resp: 51735
Ion Ratio Lower Upper
152 100
115 66.6 46.9 140.7
150 160.1 0.0 349.4

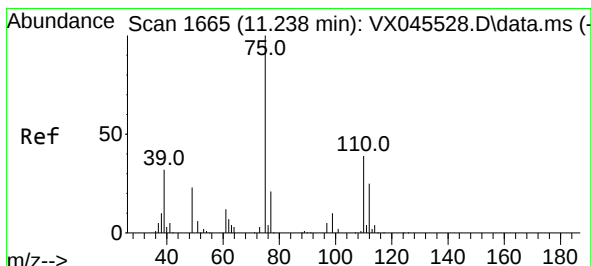
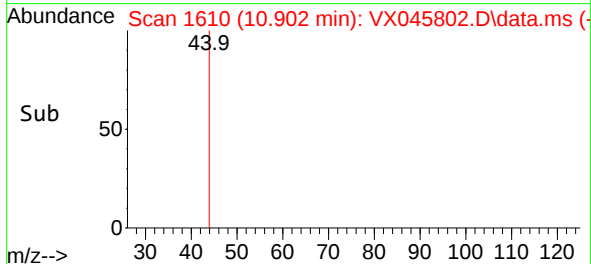
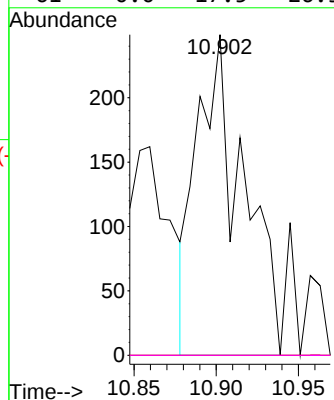
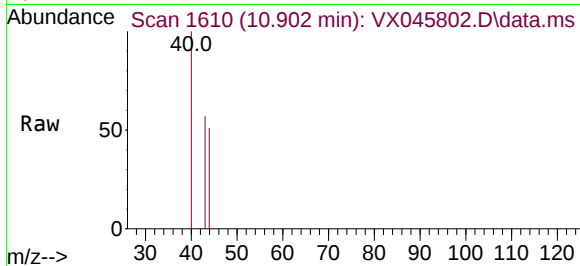




#74
N-amy1 acetate
Concen: 0.245 ug/l
RT: 10.902 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX045802.D
Acq: 16 Apr 2025 13:02

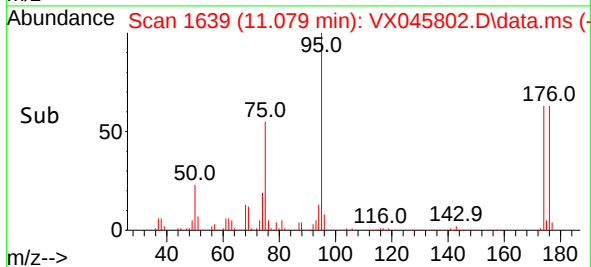
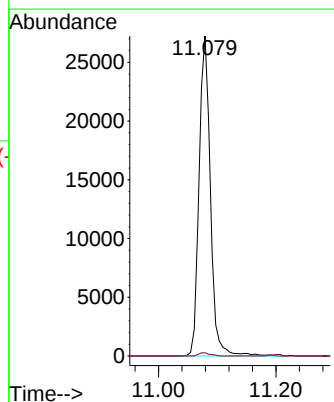
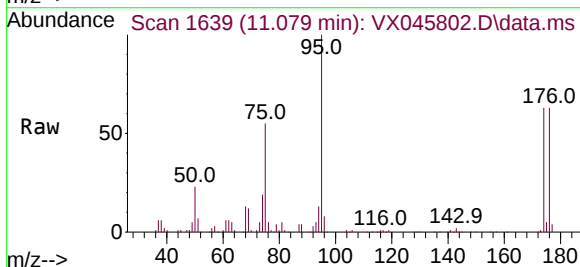
Instrument :
MSVOA_X
ClientSampleId :
PB167604TB

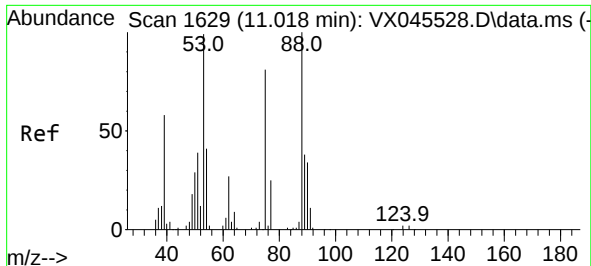
Tgt Ion: 43	Resp: 485
Ion Ratio	Lower Upper
43 100	
70 0.0	30.1 45.1#
55 0.0	18.3 27.5#
61 0.0	17.5 26.3#



#76
1,2,3-Trichloropropane
Concen: 28.970 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.159 min
Lab File: VX045802.D
Acq: 16 Apr 2025 13:02

Tgt Ion: 75	Resp: 36558
Ion Ratio	Lower Upper
75 100	
77 1.0	20.0 59.9#

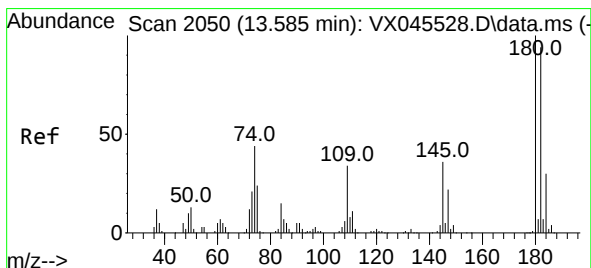
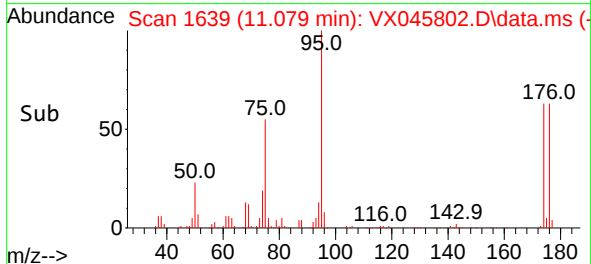
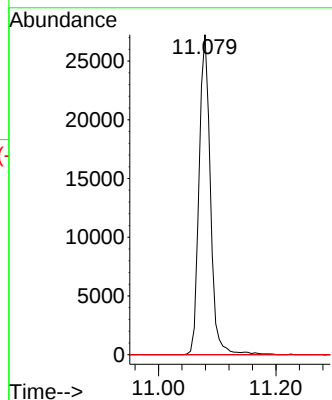
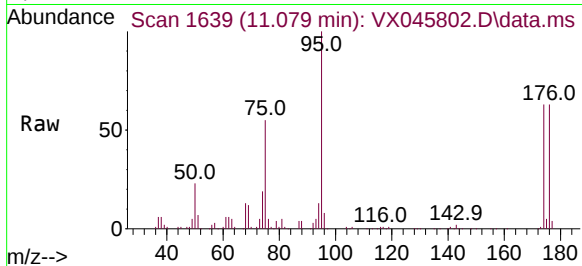




#81
trans-1,4-Dichloro-2-butene
Concen: 98.320 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX045802.D
Acq: 16 Apr 2025 13:02

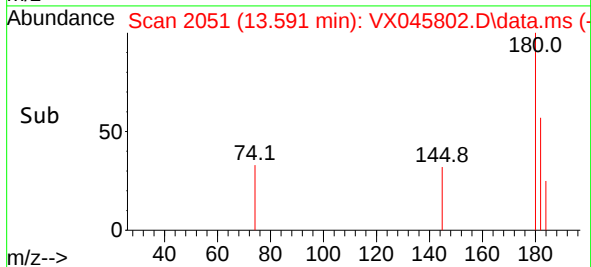
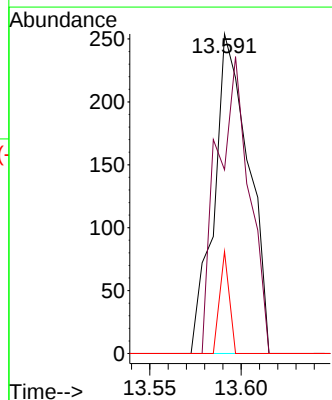
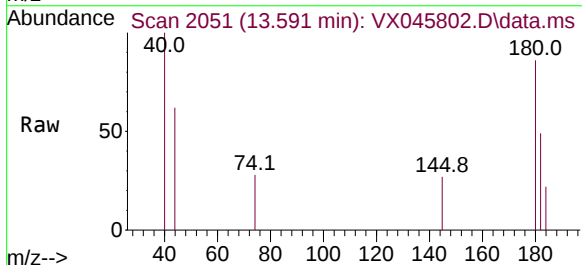
Instrument :
MSVOA_X
ClientSampleId :
PB167604TB

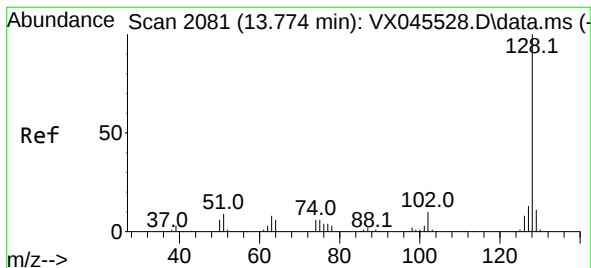
Tgt Ion: 75 Resp: 36558
Ion Ratio Lower Upper
75 100
53 0.0 101.8 152.6#
89 0.0 37.2 55.8#



#93
1,2,4-Trichlorobenzene
Concen: 0.347 ug/l
RT: 13.591 min Scan# 2051
Delta R.T. 0.006 min
Lab File: VX045802.D
Acq: 16 Apr 2025 13:02

Tgt Ion:180 Resp: 335
Ion Ratio Lower Upper
180 100
182 85.7 47.9 143.6
145 9.0 17.9 53.8#





#95

Naphthalene

Concen: 0.559 ug/l

RT: 13.780 min Scan# 2081

Delta R.T. 0.006 min

Lab File: VX045802.D

Acq: 16 Apr 2025 13:02

Instrument :

MSVOA_X

ClientSampleId :

PB167604TB

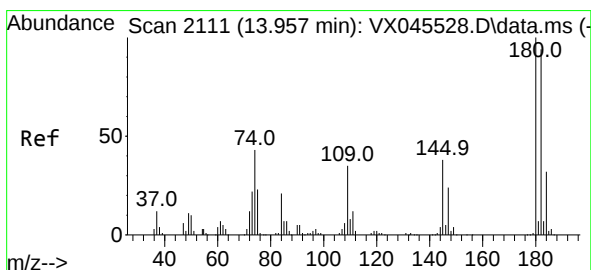
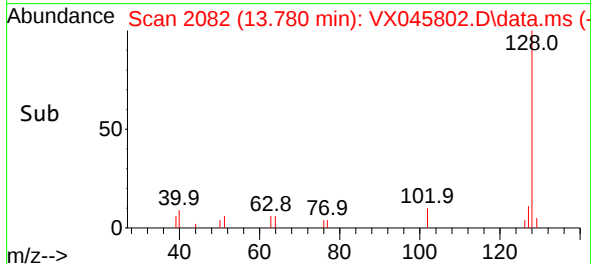
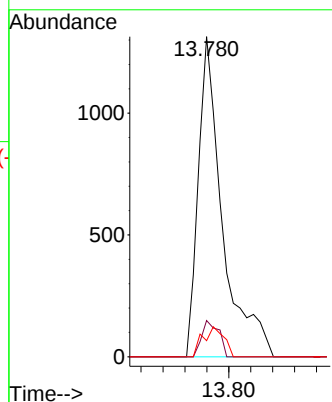
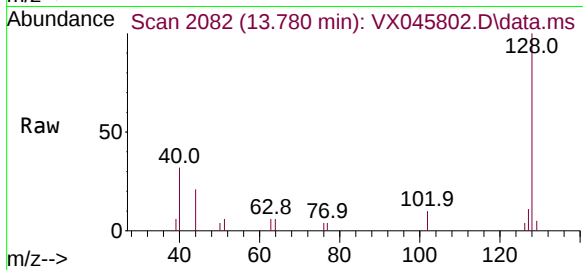
Tgt Ion:128 Resp: 2008

Ion Ratio Lower Upper

128 100

127 8.0 10.3 15.5#

129 8.1 8.6 12.8#



#96

1,2,3-Trichlorobenzene

Concen: 0.255 ug/l

RT: 13.969 min Scan# 2113

Delta R.T. 0.012 min

Lab File: VX045802.D

Acq: 16 Apr 2025 13:02

Tgt Ion:180 Resp: 258

Ion Ratio Lower Upper

180 100

182 139.1 47.3 141.8

145 41.5 18.2 54.6

