

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030325\
 Data File : VX045105.D
 Acq On : 03 Mar 2025 11:30
 Operator : JC/MD
 Sample : PB166928TB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Mar 04 05:20:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

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

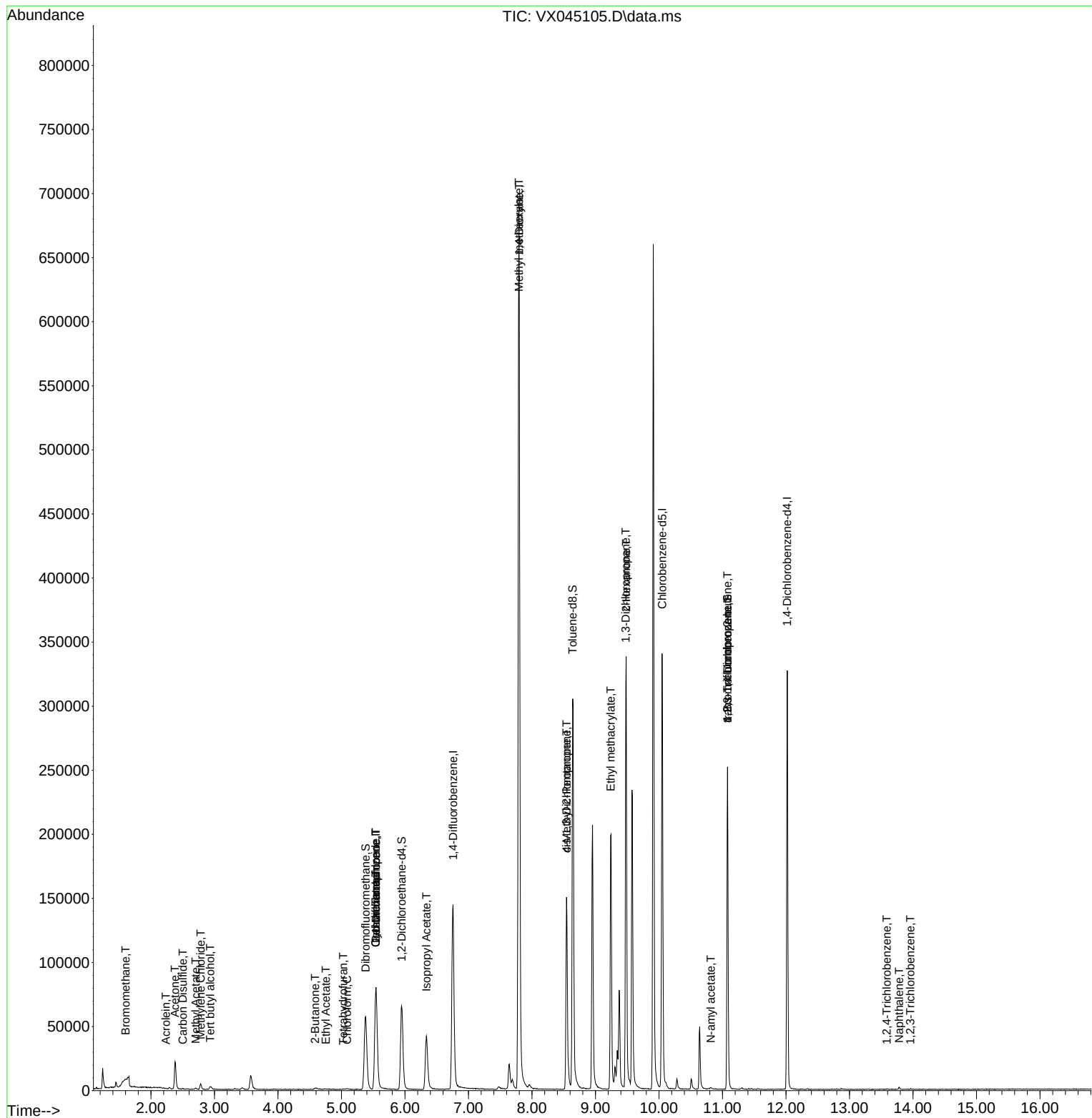
Internal Standards						
1) Pentafluorobenzene	5.544	168	75337	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	152031	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	143120	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	62542	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	62450	52.114	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.220%			
35) Dibromofluoromethane	5.379	113	51016	50.183	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.360%			
50) Toluene-d8	8.641	98	189518	51.423	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.840%			
62) 4-Bromofluorobenzene	11.079	95	66977	54.842	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 109.680%			
Target Compounds					Qvalue	
5) Bromomethane	1.599	94	165	0.365	ug/l #	3
11) Tert butyl alcohol	2.935	59	1569	6.912	ug/l #	73
13) Acrolein	2.233	56	65	0.248	ug/l #	1
16) Acetone	2.380	43	23995	43.157	ug/l	97
17) Carbon Disulfide	2.502	76	667	0.271	ug/l #	66
18) Methyl Acetate	2.703	43	1459	1.091	ug/l	95
20) Methylene Chloride	2.782	84	2123	1.928	ug/l #	92
25) 2-Butanone	4.587	43	3032	3.623	ug/l #	89
29) Tetrahydrofuran	5.026	42	182	0.324	ug/l #	55
30) Chloroform	5.087	83	662	0.355	ug/l	98
31) Cyclohexane	5.538	56	1939	1.189	ug/l #	51
36) 1,1-Dichloropropene	5.544	75	6433	4.614	ug/l #	47
37) Ethyl Acetate	4.751	43	1046	0.582	ug/l #	72
38) Carbon Tetrachloride	5.538	117	8149	5.757	ug/l #	15
43) Isopropyl Acetate	6.336	43	62269	23.441	ug/l	99
48) Methyl methacrylate	7.793	41	63963	47.995	ug/l #	46
49) 1,4-Dioxane	7.800	88	79	2.810	ug/l #	1
51) 4-Methyl-2-Pentanone	8.543	43	59419	33.313	ug/l #	47
54) cis-1,3-Dichloropropene	8.543	75	25117	16.418	ug/l #	64
56) Ethyl methacrylate	9.238	69	354	0.219	ug/l #	1
57) 1,3-Dichloropropane	9.476	76	3129	1.700	ug/l #	43
59) 2-Hexanone	9.482	43	44864	34.716	ug/l #	53
74) N-amyl acetate	10.817	43	476	0.208	ug/l #	45
76) 1,2,3-Trichloropropane	11.079	75	34792	23.901	ug/l #	36
81) trans-1,4-Dichloro-2-b...	11.079	75	34792	81.794	ug/l #	6
93) 1,2,4-Trichlorobenzene	13.585	180	315	0.268	ug/l #	71
95) Naphthalene	13.780	128	1634	0.362	ug/l #	92
96) 1,2,3-Trichlorobenzene	13.957	180	304	0.246	ug/l	93

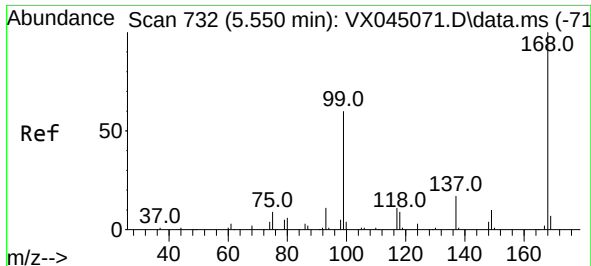
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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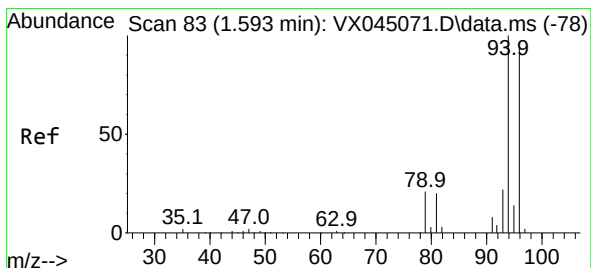
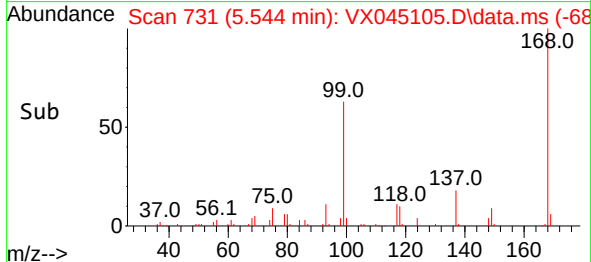
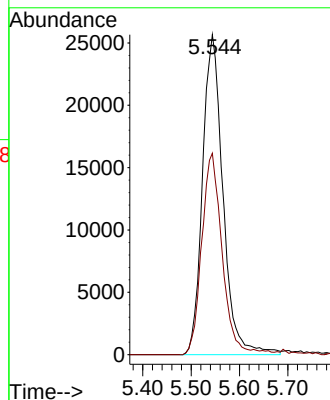
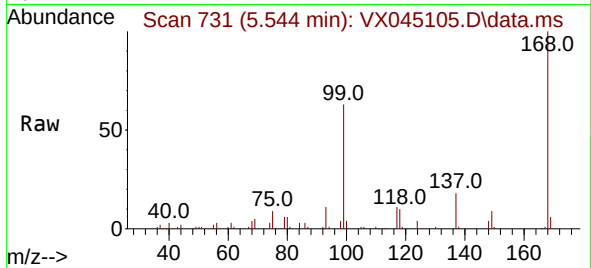




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX045105.D
Acq: 03 Mar 2025 11:30

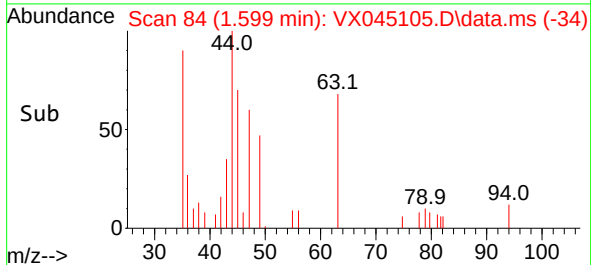
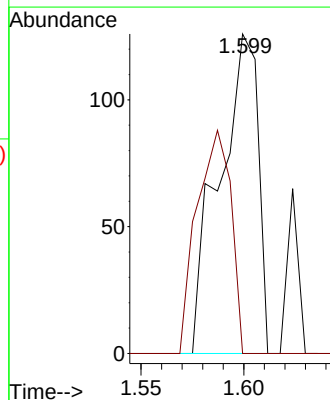
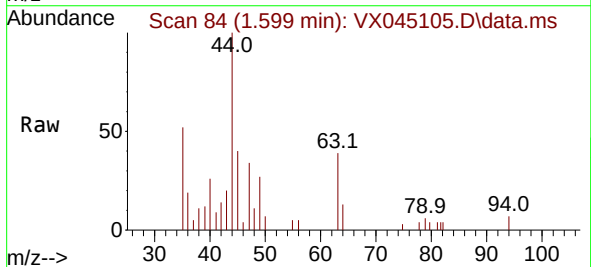
Instrument :
MSVOA_X
ClientSampleId :

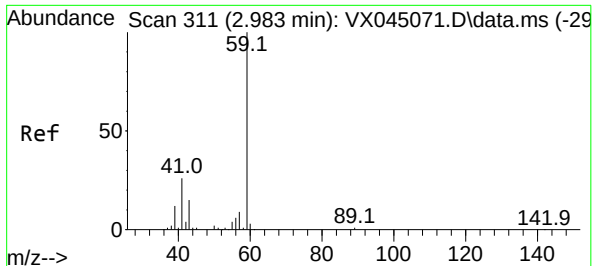
Tgt Ion:168 Resp: 75337
Ion Ratio Lower Upper
168 100
99 62.9 48.2 72.4



#5
Bromomethane
Concen: 0.365 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.006 min
Lab File: VX045105.D
Acq: 03 Mar 2025 11:30

Tgt Ion: 94 Resp: 165
Ion Ratio Lower Upper
94 100
96 0.0 75.0 112.4#





#11

Tert butyl alcohol

Concen: 6.912 ug/l

RT: 2.935 min Scan# 30

Delta R.T. -0.049 min

Lab File: VX045105.D

Acq: 03 Mar 2025 11:30

Instrument :

MSVOA_X

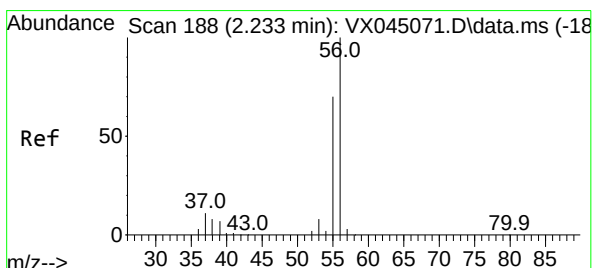
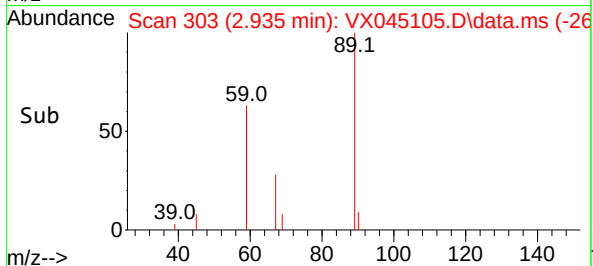
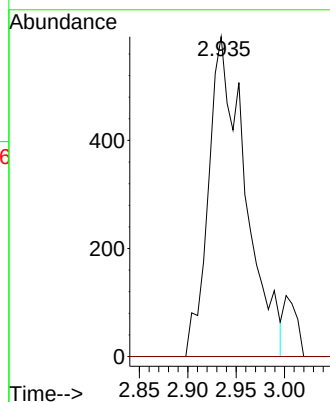
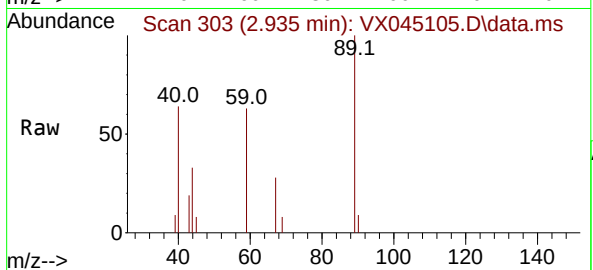
ClientSampleId :

Tgt Ion: 59 Resp: 1569

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#



#13

Acrolein

Concen: 0.248 ug/l

RT: 2.233 min Scan# 188

Delta R.T. 0.000 min

Lab File: VX045105.D

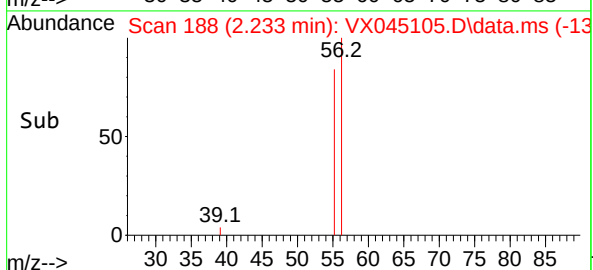
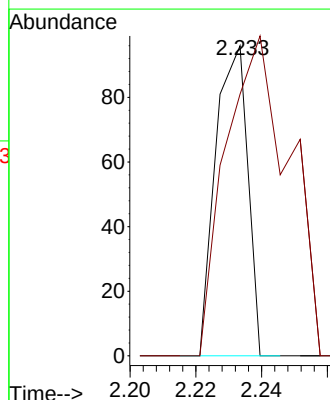
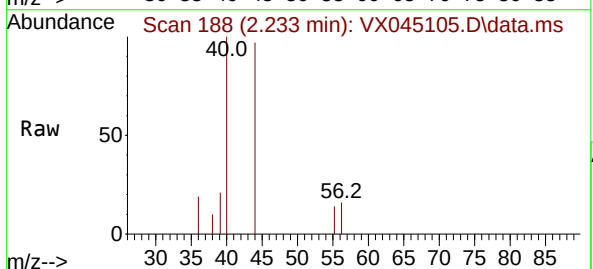
Acq: 03 Mar 2025 11:30

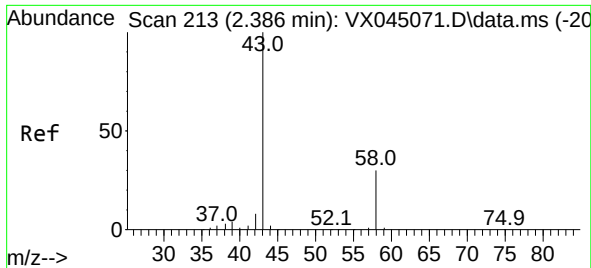
Tgt Ion: 56 Resp: 65

Ion Ratio Lower Upper

56 100

55 203.1 56.2 84.4#

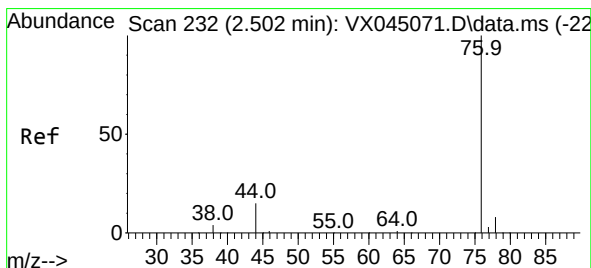
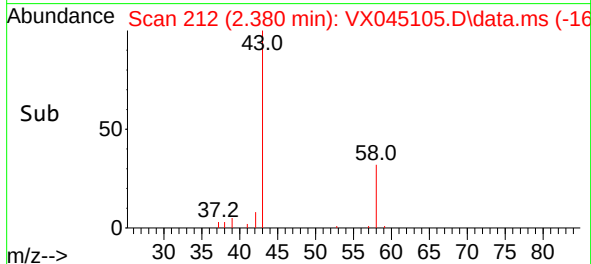
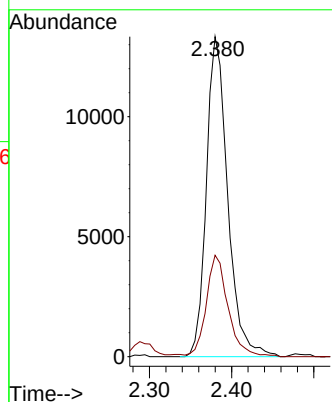
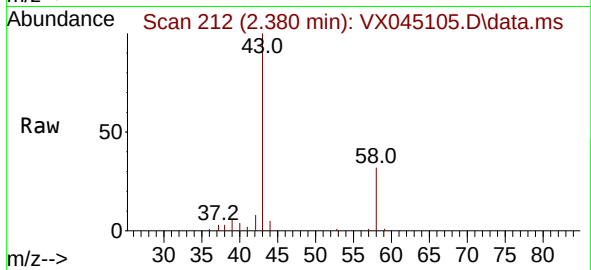




#16
Acetone
Concen: 43.157 ug/l
RT: 2.380 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX045105.D
Acq: 03 Mar 2025 11:30

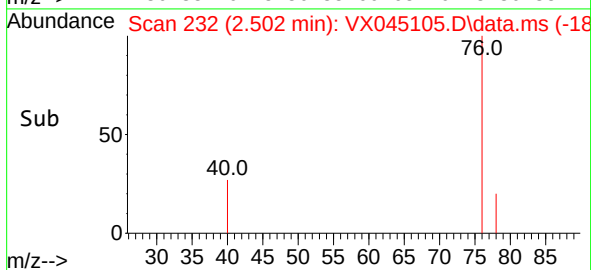
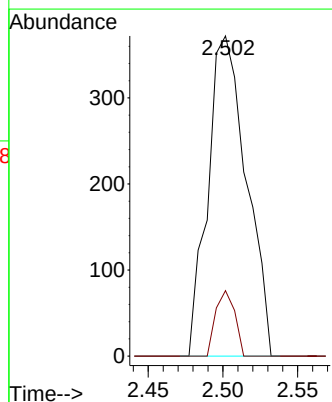
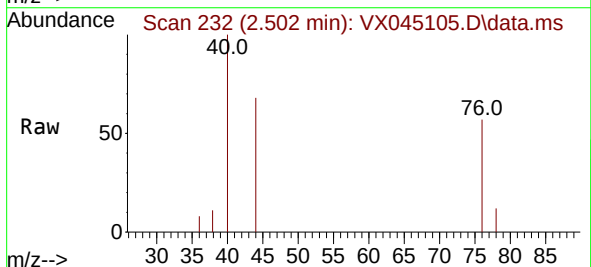
Instrument :
MSVOA_X
ClientSampleId :

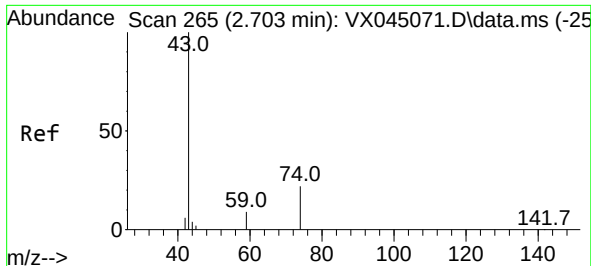
Tgt Ion: 43 Resp: 23995
Ion Ratio Lower Upper
43 100
58 31.7 24.2 36.4



#17
Carbon Disulfide
Concen: 0.271 ug/l
RT: 2.502 min Scan# 232
Delta R.T. 0.000 min
Lab File: VX045105.D
Acq: 03 Mar 2025 11:30

Tgt Ion: 76 Resp: 667
Ion Ratio Lower Upper
76 100
78 20.4 6.6 9.8#

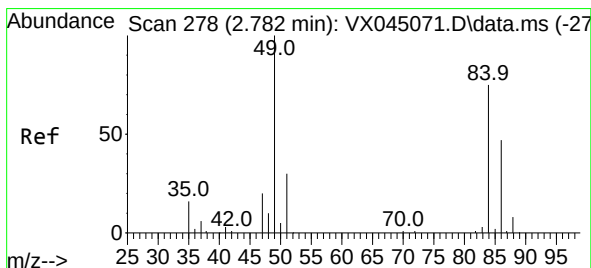
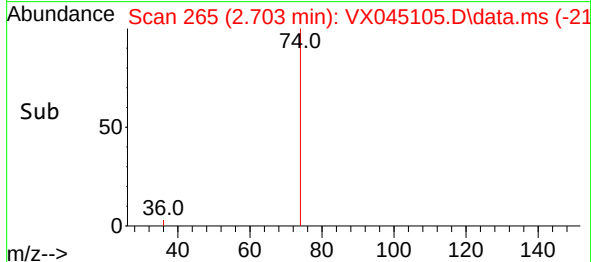
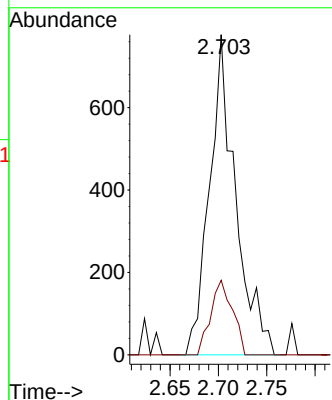
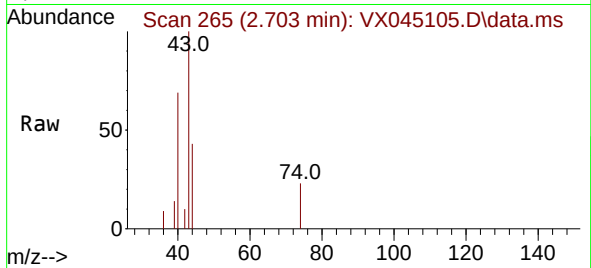




#18
Methyl Acetate
Concen: 1.091 ug/l
RT: 2.703 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX045105.D
Acq: 03 Mar 2025 11:30

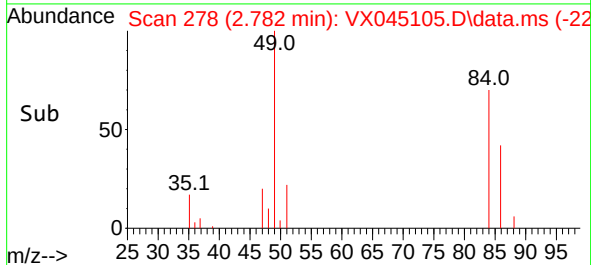
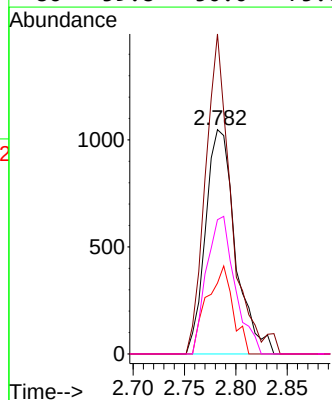
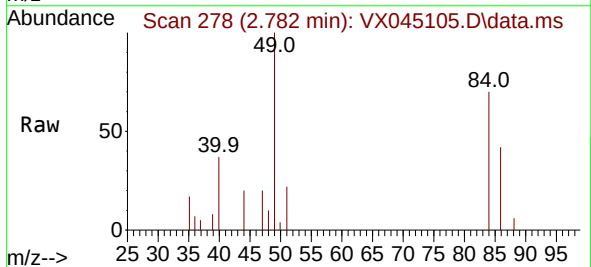
Instrument :
MSVOA_X
ClientSampleId :

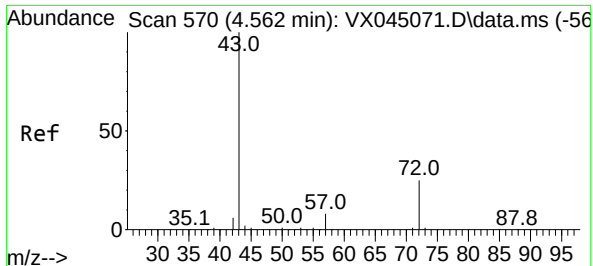
Tgt Ion: 43 Resp: 1459
Ion Ratio Lower Upper
43 100
74 19.4 17.4 26.2



#20
Methylene Chloride
Concen: 1.928 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX045105.D
Acq: 03 Mar 2025 11:30

Tgt Ion: 84 Resp: 2123
Ion Ratio Lower Upper
84 100
49 142.7 106.5 159.7
51 31.6 32.1 48.1#
86 59.8 50.0 75.0

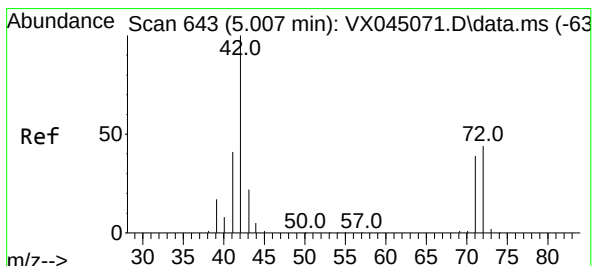
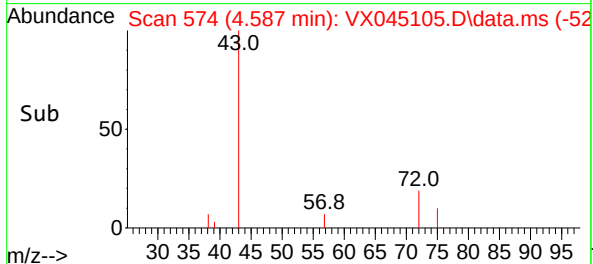
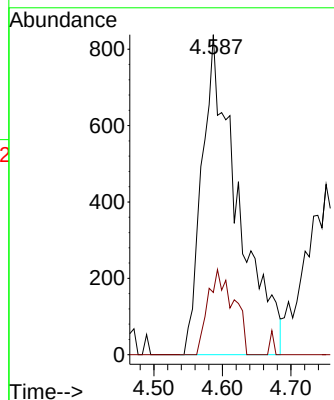
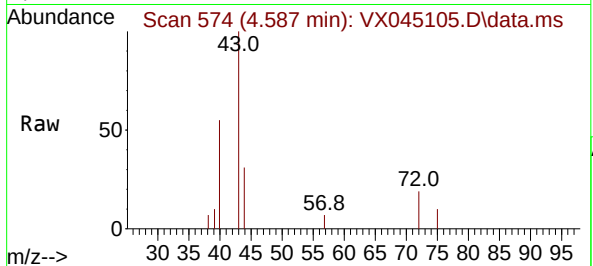




#25
2-Butanone
Concen: 3.623 ug/l
RT: 4.587 min Scan# 51
Delta R.T. 0.024 min
Lab File: VX045105.D
Acq: 03 Mar 2025 11:30

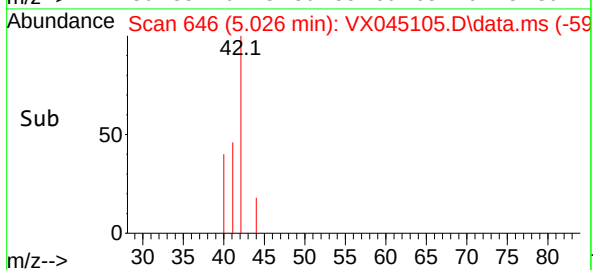
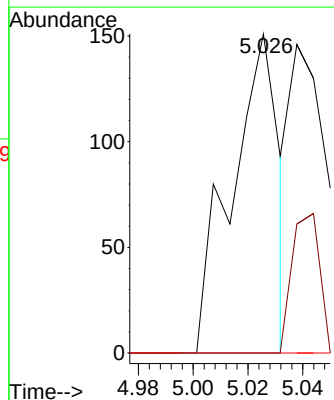
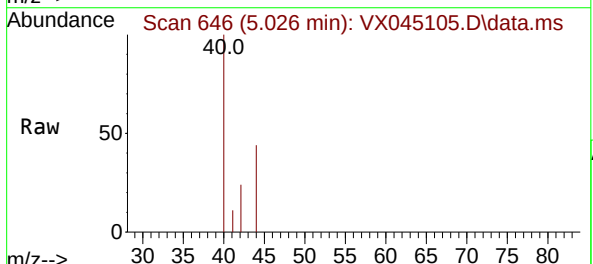
Instrument :
MSVOA_X
ClientSampleId :

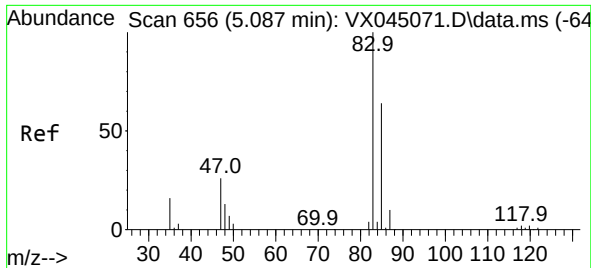
Tgt Ion: 43 Resp: 3032
Ion Ratio Lower Upper
43 100
72 19.5 20.0 30.0#



#29
Tetrahydrofuran
Concen: 0.324 ug/l
RT: 5.026 min Scan# 646
Delta R.T. 0.018 min
Lab File: VX045105.D
Acq: 03 Mar 2025 11:30

Tgt Ion: 42 Resp: 182
Ion Ratio Lower Upper
42 100
72 25.3 34.1 51.1#
71 0.0 31.4 47.0#





#30

Chloroform

Concen: 0.355 ug/l

RT: 5.087 min Scan# 61

Delta R.T. 0.000 min

Lab File: VX045105.D

Acq: 03 Mar 2025 11:30

Instrument :

MSVOA_X

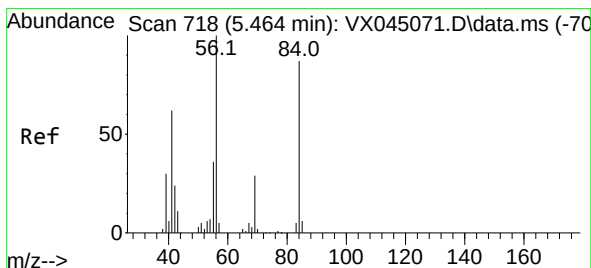
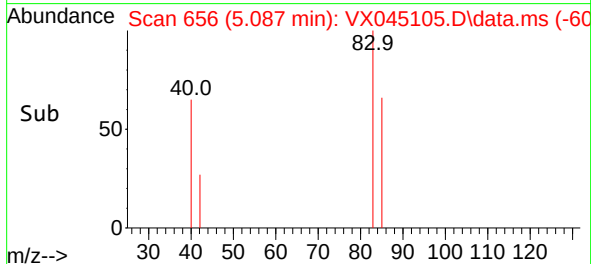
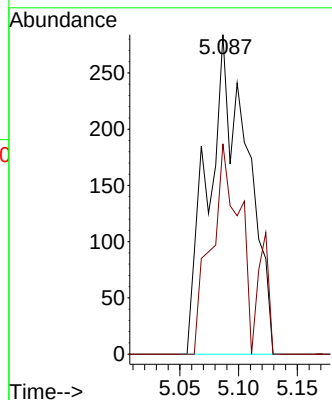
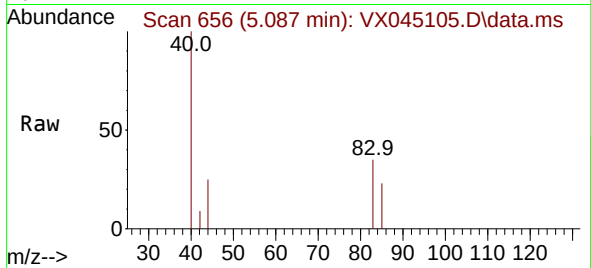
ClientSampleId :

Tgt Ion: 83 Resp: 662

Ion Ratio Lower Upper

83 100

85 65.8 51.4 77.2



#31

Cyclohexane

Concen: 1.189 ug/l

RT: 5.538 min Scan# 730

Delta R.T. 0.073 min

Lab File: VX045105.D

Acq: 03 Mar 2025 11:30

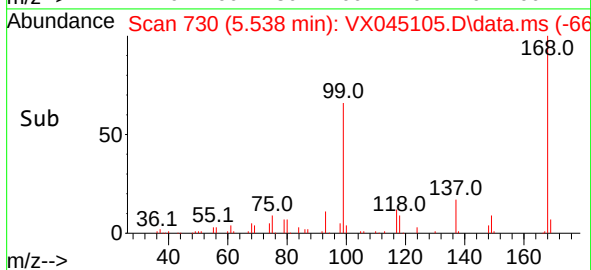
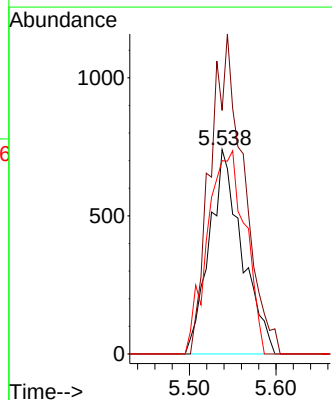
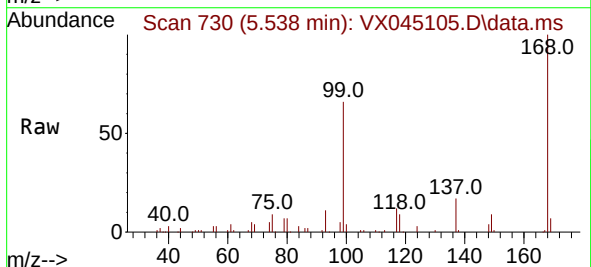
Tgt Ion: 56 Resp: 1939

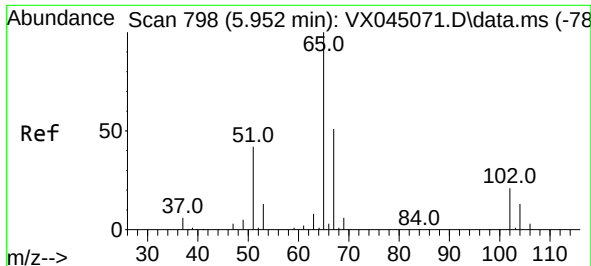
Ion Ratio Lower Upper

56 100

69 119.2 23.4 35.2#

84 94.6 69.4 104.2





#33

1,2-Dichloroethane-d4

Concen: 52.114 ug/l

RT: 5.946 min Scan# 798

Delta R.T. -0.006 min

Lab File: VX045105.D

Acq: 03 Mar 2025 11:30

Instrument :

MSVOA_X

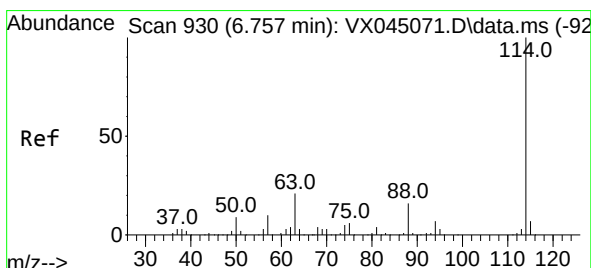
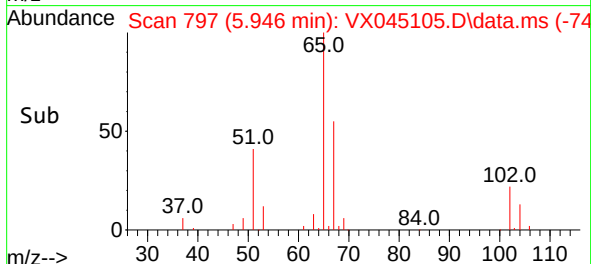
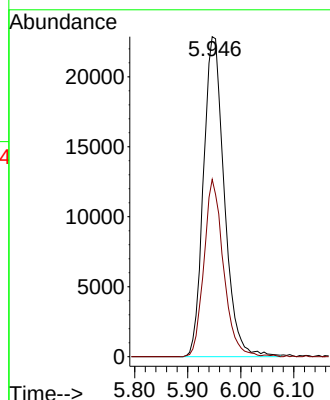
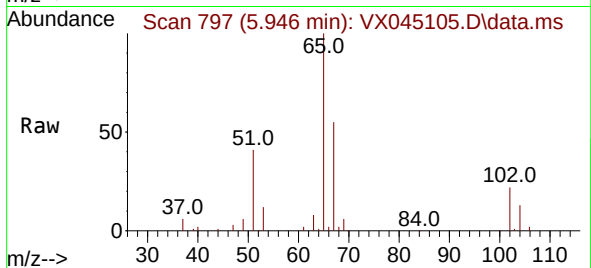
ClientSampleId :

Tgt Ion: 65 Resp: 62450

Ion Ratio Lower Upper

65 100

67 51.8 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX045105.D

Acq: 03 Mar 2025 11:30

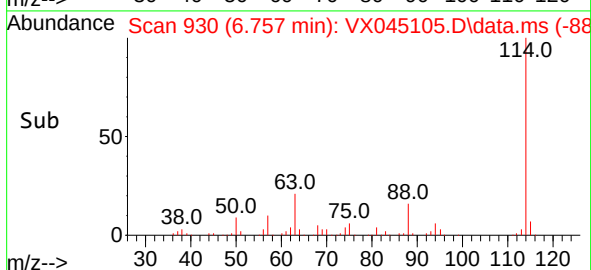
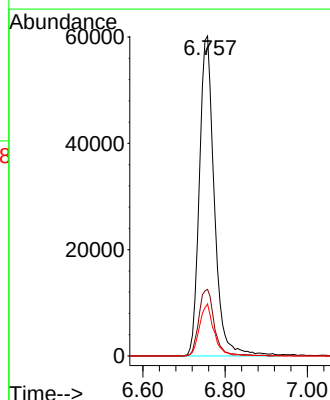
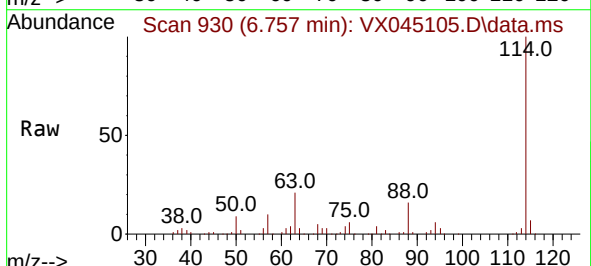
Tgt Ion: 114 Resp: 152031

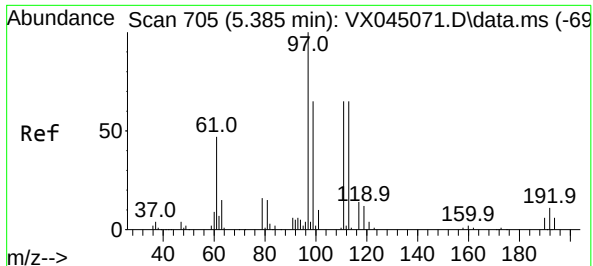
Ion Ratio Lower Upper

114 100

63 20.8 0.0 41.8

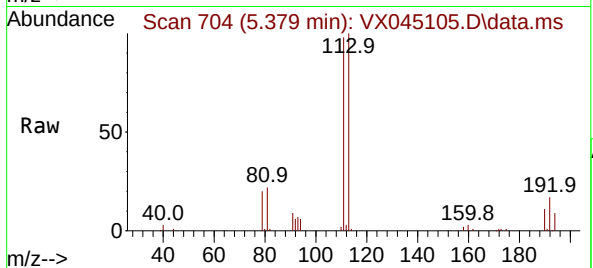
88 16.2 0.0 32.8



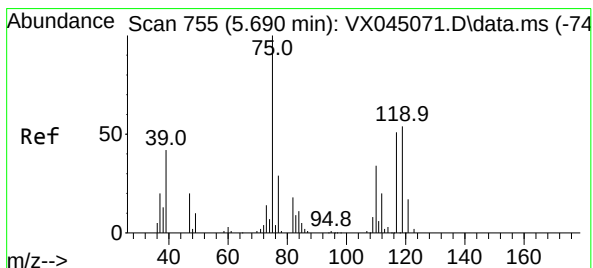
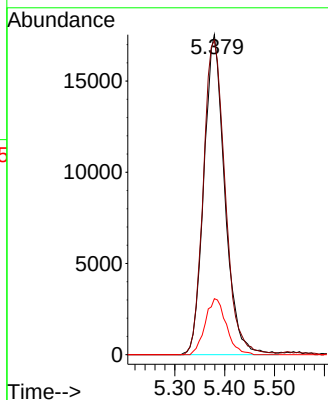
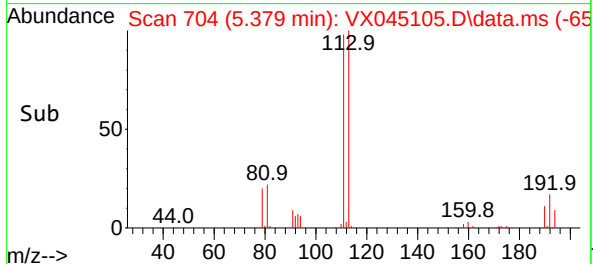


#35
Dibromofluoromethane
Concen: 50.183 ug/l
RT: 5.379 min Scan# 705
Delta R.T. -0.006 min
Lab File: VX045105.D
Acq: 03 Mar 2025 11:30

Instrument :
MSVOA_X
ClientSampleId :

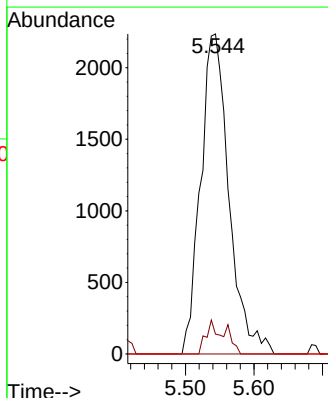
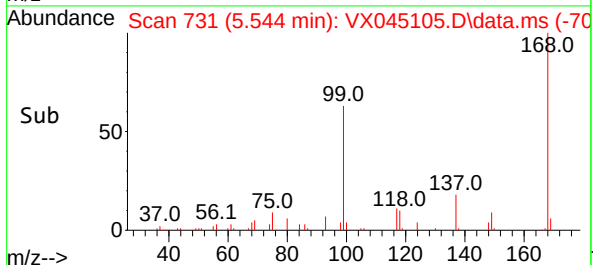
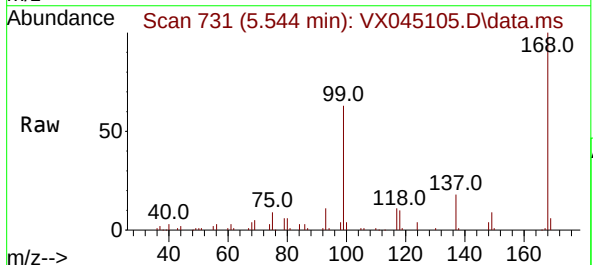


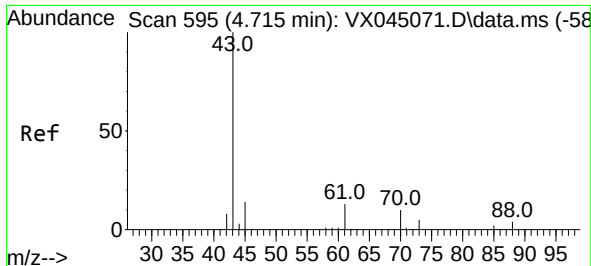
Tgt Ion:113 Resp: 51016
Ion Ratio Lower Upper
113 100
111 102.7 81.8 122.6
192 17.6 14.3 21.5



#36
1,1-Dichloropropene
Concen: 4.614 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.146 min
Lab File: VX045105.D
Acq: 03 Mar 2025 11:30

Tgt Ion: 75 Resp: 6433
Ion Ratio Lower Upper
75 100
110 5.0 16.9 50.6#
77 0.0 24.5 36.7#





#37

Ethyl Acetate

Concen: 0.582 ug/l

RT: 4.751 min Scan# 601

Delta R.T. 0.037 min

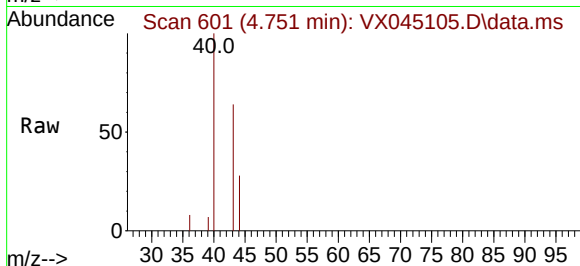
Lab File: VX045105.D

Acq: 03 Mar 2025 11:30

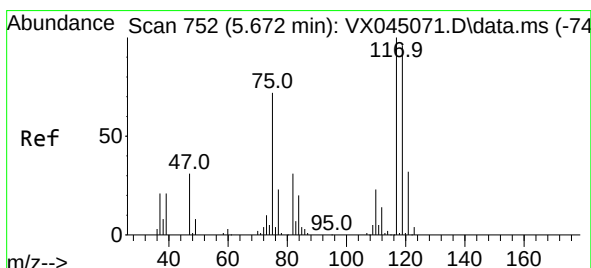
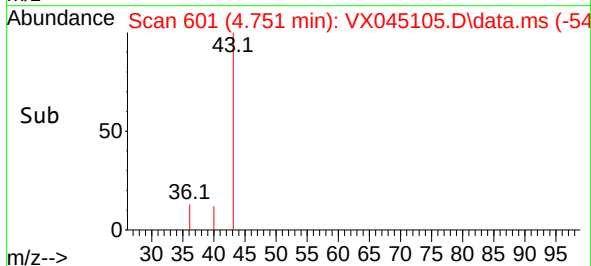
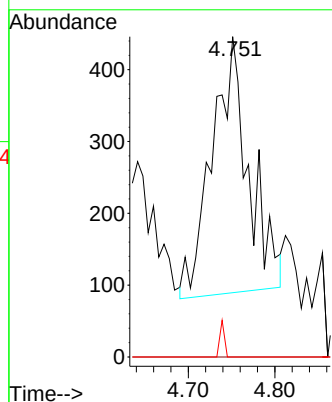
Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion: 43	Resp: 1046
Ion Ratio	Lower Upper
43	100
61	0.0 10.8 16.2#
70	1.8 7.7 11.5#



#38

Carbon Tetrachloride

Concen: 5.757 ug/l

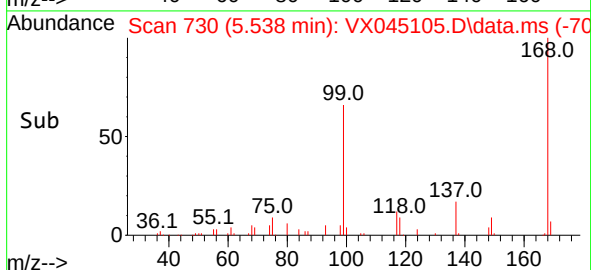
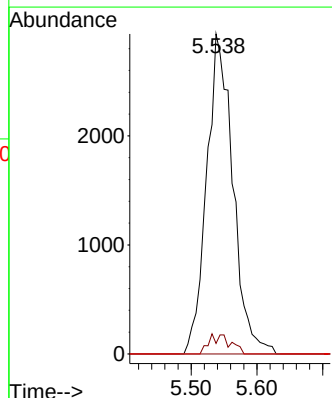
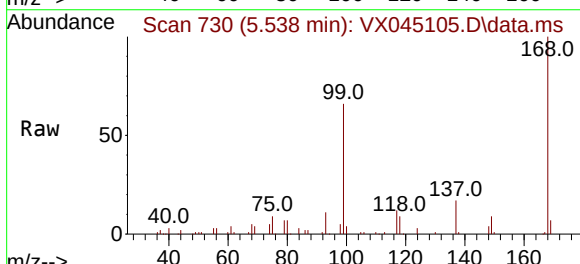
RT: 5.538 min Scan# 730

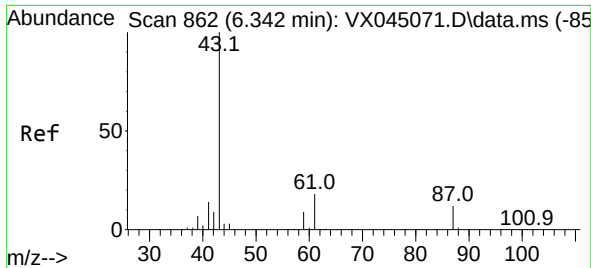
Delta R.T. -0.134 min

Lab File: VX045105.D

Acq: 03 Mar 2025 11:30

Tgt Ion: 117	Resp: 8149
Ion Ratio	Lower Upper
117	100
119	3.3 76.7 115.1#
121	0.0 25.5 38.3#

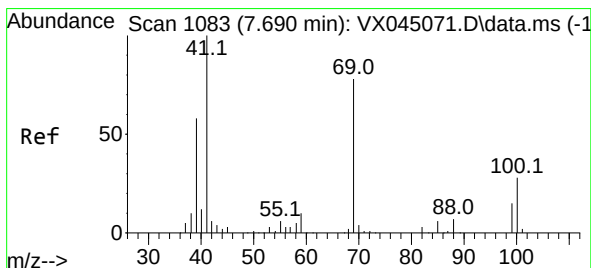
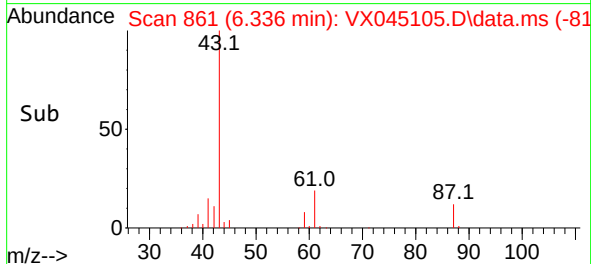
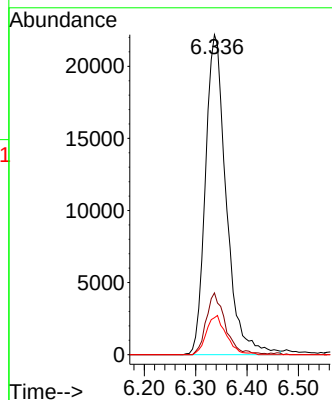
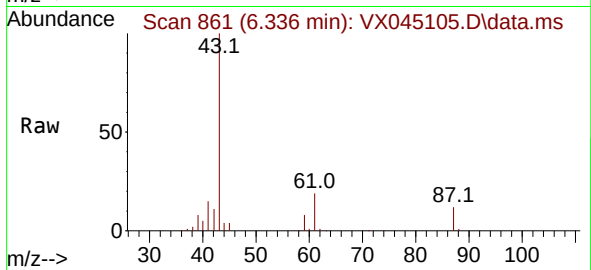




#43
Isopropyl Acetate
Concen: 23.441 ug/l
RT: 6.336 min Scan# 81
Delta R.T. -0.006 min
Lab File: VX045105.D
Acq: 03 Mar 2025 11:30

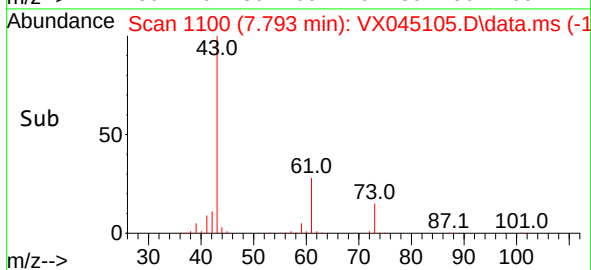
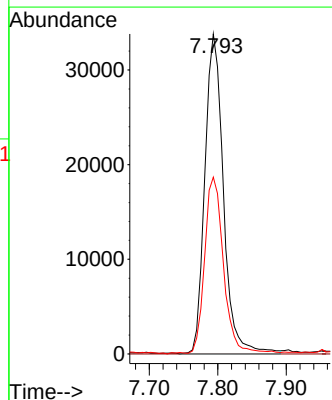
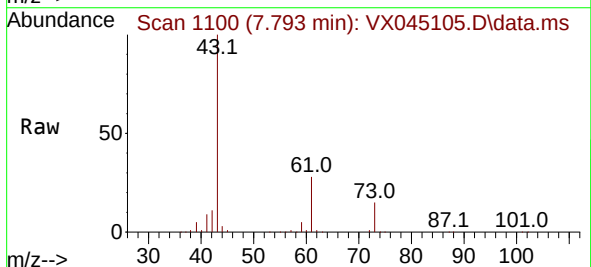
Instrument :
MSVOA_X
ClientSampleId :

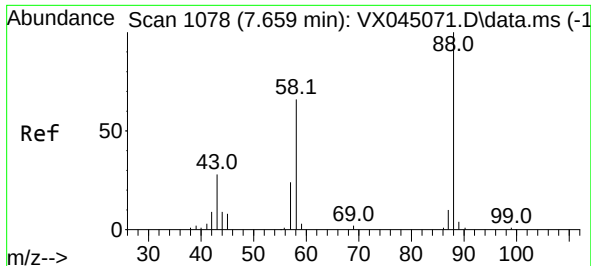
Tgt Ion: 43 Resp: 62269
Ion Ratio Lower Upper
43 100
61 17.8 14.9 22.3
87 11.7 9.4 14.2



#48
Methyl methacrylate
Concen: 47.995 ug/l
RT: 7.793 min Scan# 1100
Delta R.T. 0.104 min
Lab File: VX045105.D
Acq: 03 Mar 2025 11:30

Tgt Ion: 41 Resp: 63963
Ion Ratio Lower Upper
41 100
69 0.0 63.0 94.6#
39 55.4 47.5 71.3

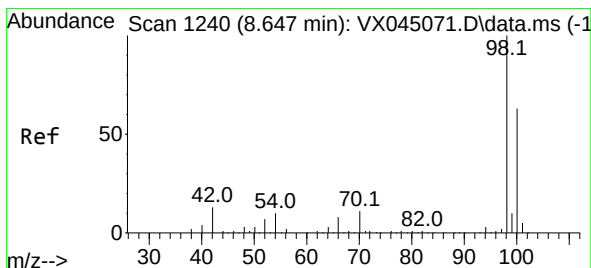
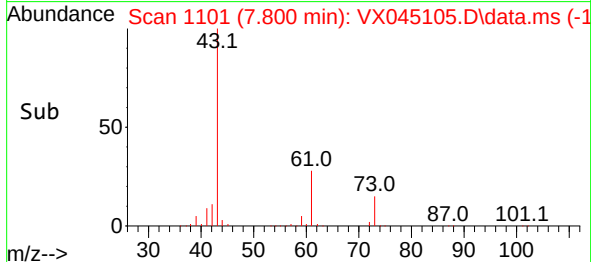
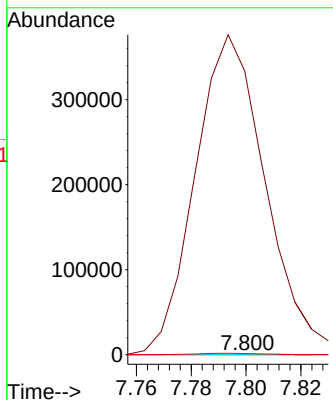
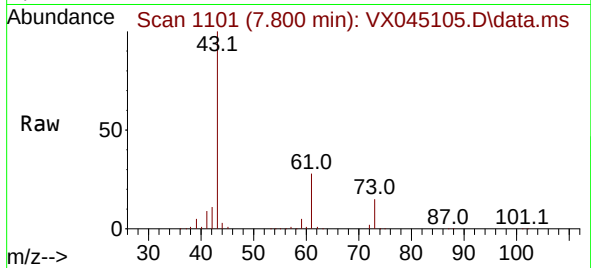




#49
1,4-Dioxane
Concen: 2.810 ug/l
RT: 7.800 min Scan# 1101
Delta R.T. 0.140 min
Lab File: VX045105.D
Acq: 03 Mar 2025 11:30

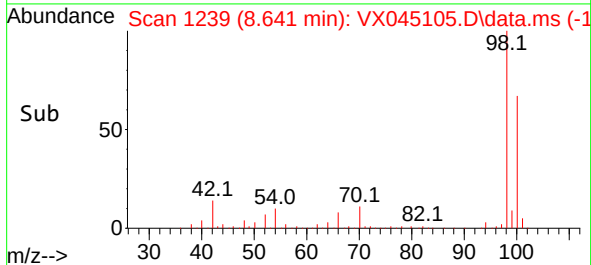
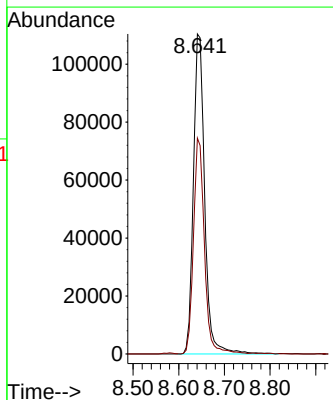
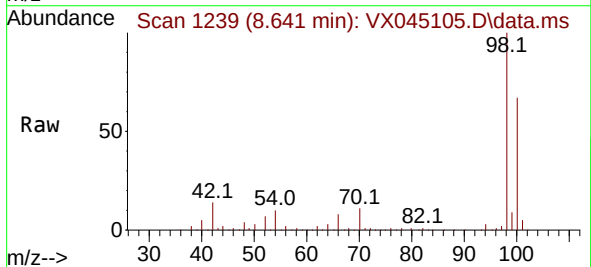
Instrument :
MSVOA_X
ClientSampleId :

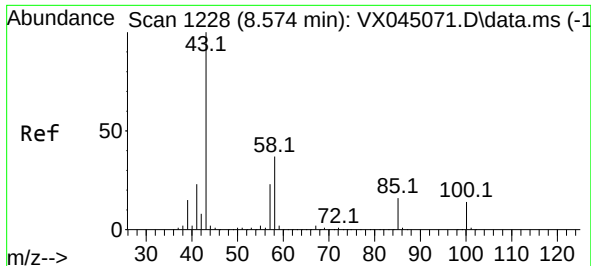
Tgt Ion: 88 Resp: 79
Ion Ratio Lower Upper
88 100
43 873701.3 28.7 43.1#
58 3820.3 55.8 83.8#



#50
Toluene-d8
Concen: 51.423 ug/l
RT: 8.641 min Scan# 1239
Delta R.T. -0.006 min
Lab File: VX045105.D
Acq: 03 Mar 2025 11:30

Tgt Ion: 98 Resp: 189518
Ion Ratio Lower Upper
98 100
100 65.6 52.0 78.0

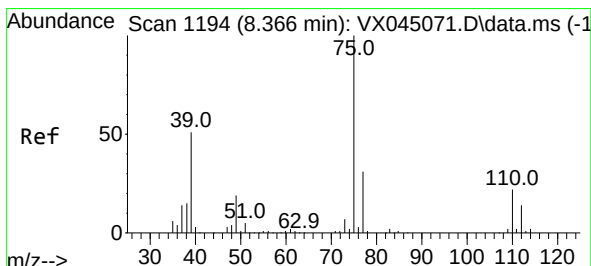
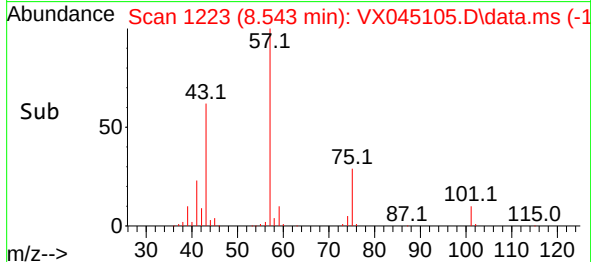
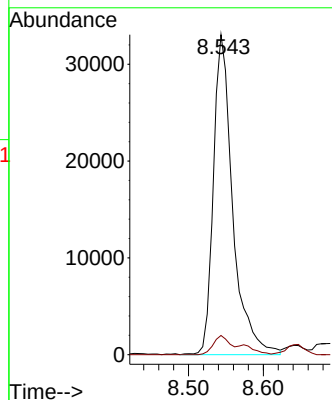
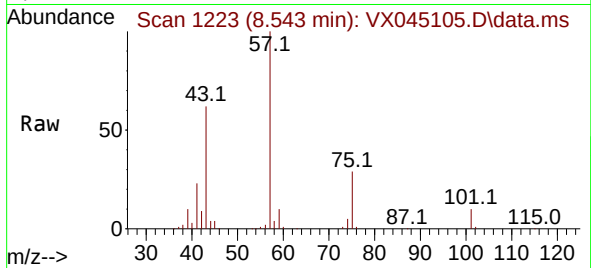




#51
4-Methyl-2-Pentanone
Concen: 33.313 ug/l
RT: 8.543 min Scan# 1223
Delta R.T. -0.030 min
Lab File: VX045105.D
Acq: 03 Mar 2025 11:30

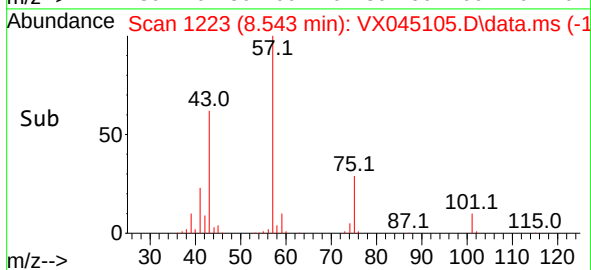
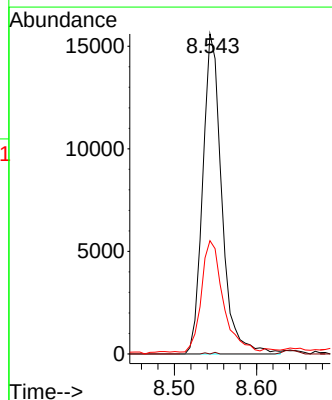
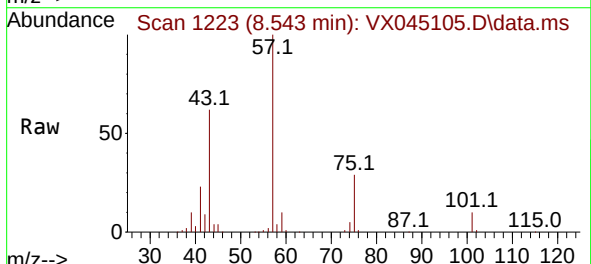
Instrument :
MSVOA_X
ClientSampleId :

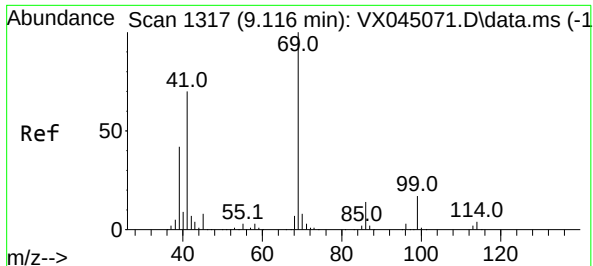
Tgt Ion: 43 Resp: 59419
Ion Ratio Lower Upper
43 100
58 5.1 29.2 43.8#



#54
cis-1,3-Dichloropropene
Concen: 16.418 ug/l
RT: 8.543 min Scan# 1223
Delta R.T. 0.177 min
Lab File: VX045105.D
Acq: 03 Mar 2025 11:30

Tgt Ion: 75 Resp: 25117
Ion Ratio Lower Upper
75 100
77 0.0 24.7 37.1#
39 34.8 40.7 61.1#

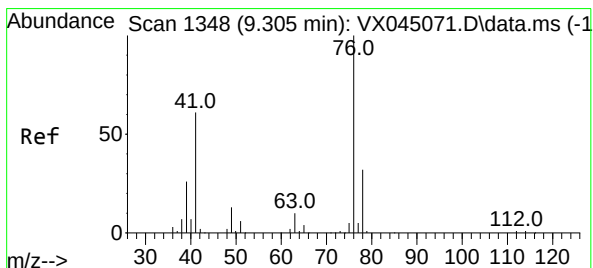
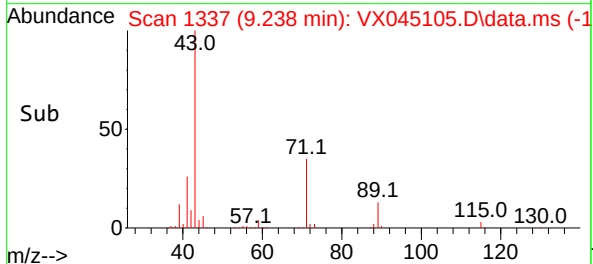
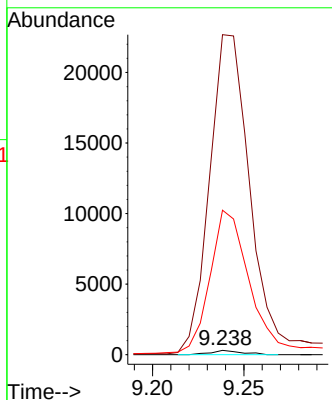
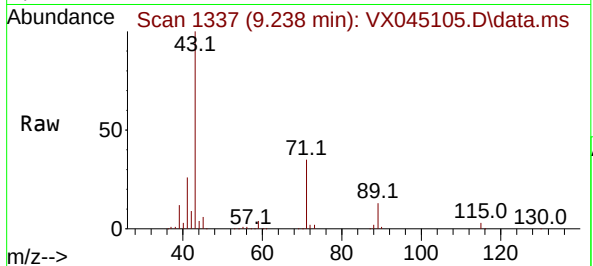




#56
Ethyl methacrylate
Concen: 0.219 ug/l
RT: 9.238 min Scan# 1337
Delta R.T. 0.122 min
Lab File: VX045105.D
Acq: 03 Mar 2025 11:30

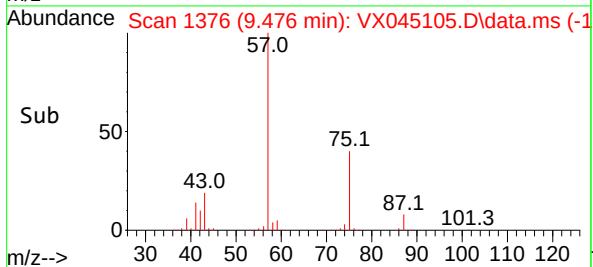
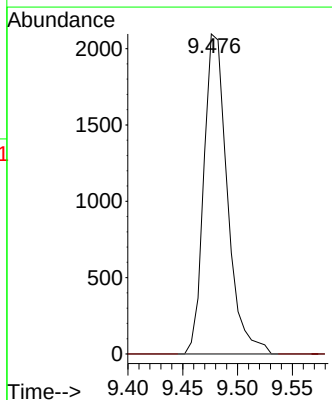
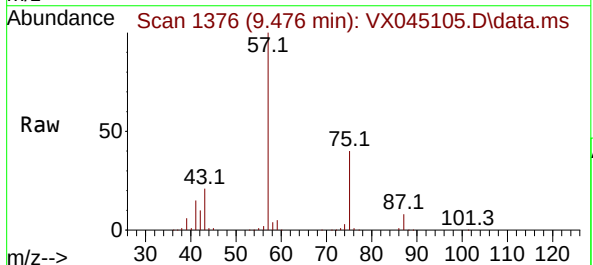
Instrument :
MSVOA_X
ClientSampleId :

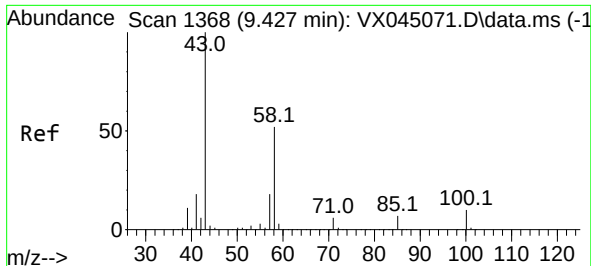
Tgt Ion: 69 Resp: 354
Ion Ratio Lower Upper
69 100
41 10107.6 57.0 85.4#
39 4333.6 34.2 51.4#



#57
1,3-Dichloropropane
Concen: 1.700 ug/l
RT: 9.476 min Scan# 1376
Delta R.T. 0.171 min
Lab File: VX045105.D
Acq: 03 Mar 2025 11:30

Tgt Ion: 76 Resp: 3129
Ion Ratio Lower Upper
76 100
78 0.0 25.5 38.3#





#59

2-Hexanone

Concen: 34.716 ug/l

RT: 9.482 min Scan# 1

Delta R.T. 0.055 min

Lab File: VX045105.D

Acq: 03 Mar 2025 11:30

Instrument :

MSVOA_X

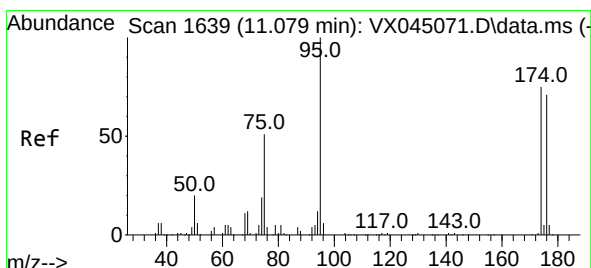
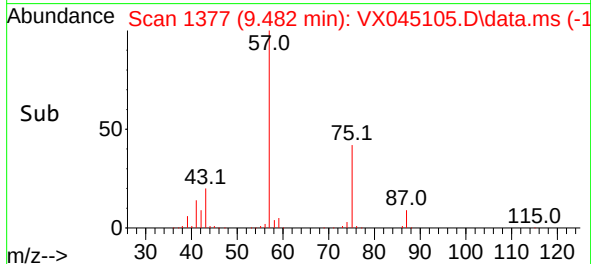
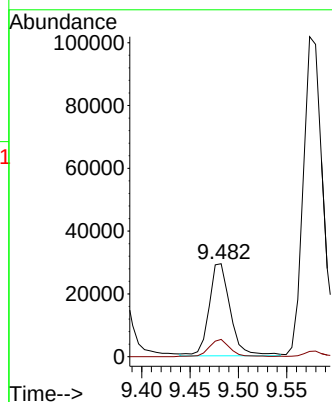
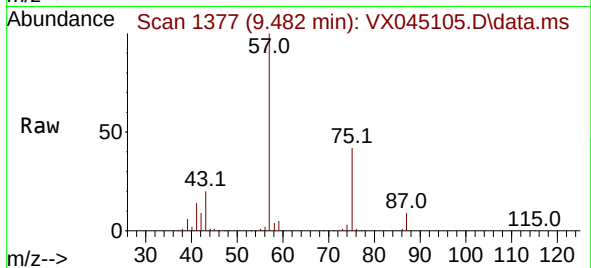
ClientSampleId :

Tgt Ion: 43 Resp: 44864

Ion Ratio Lower Upper

43 100

58 18.8 25.9 77.6#



#62

4-Bromofluorobenzene

Concen: 54.842 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX045105.D

Acq: 03 Mar 2025 11:30

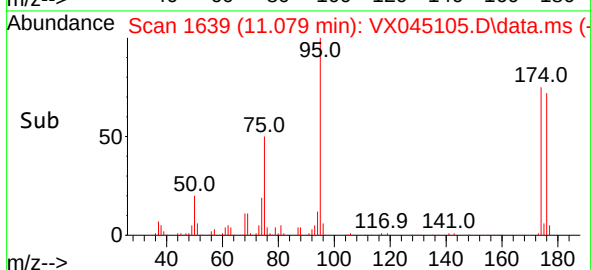
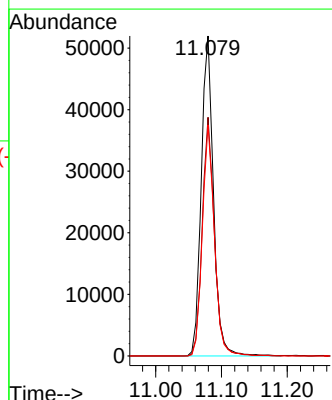
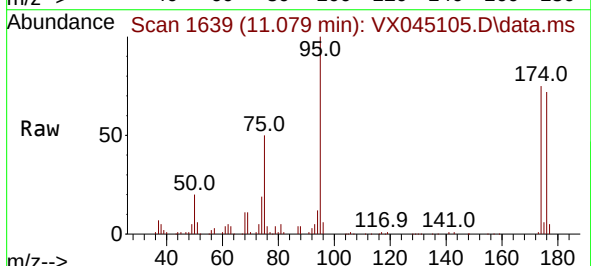
Tgt Ion: 95 Resp: 66977

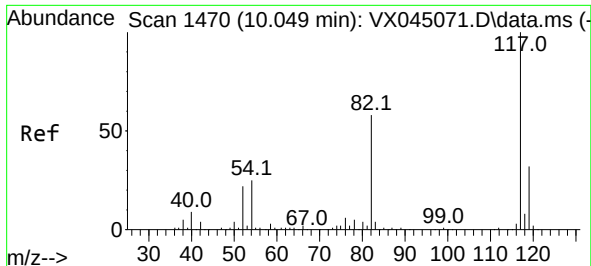
Ion Ratio Lower Upper

95 100

174 74.1 0.0 148.2

176 71.5 0.0 141.4

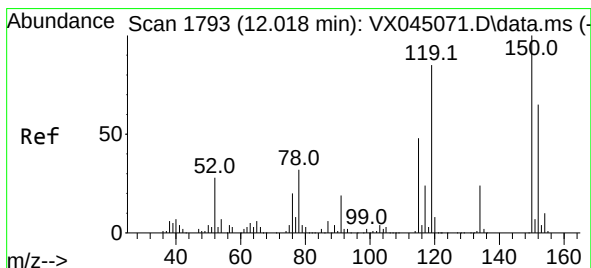
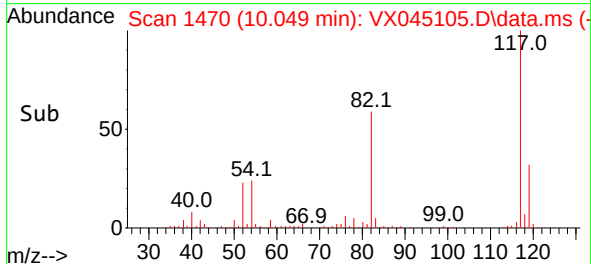
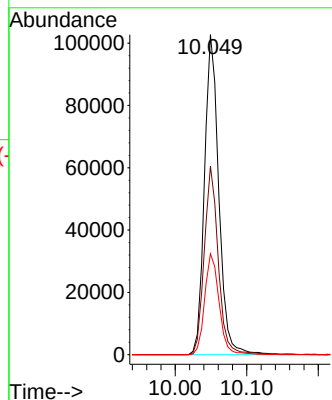
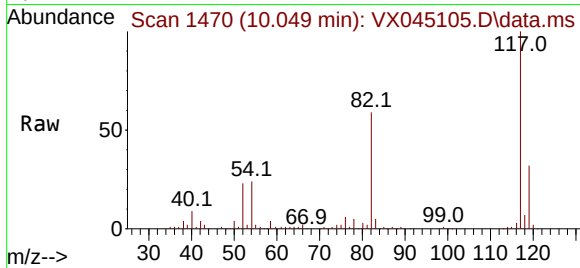




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX045105.D
Acq: 03 Mar 2025 11:30

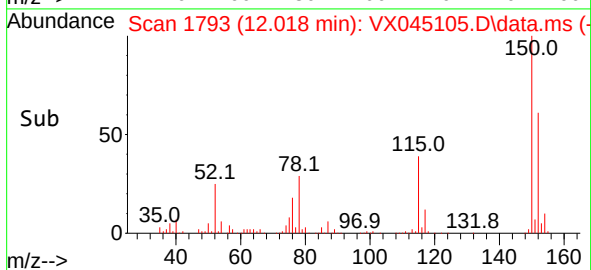
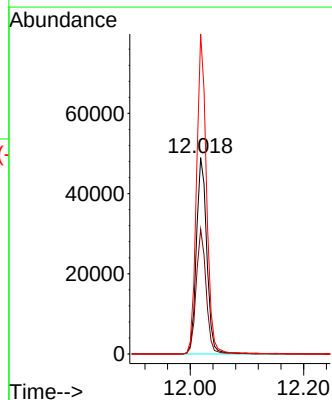
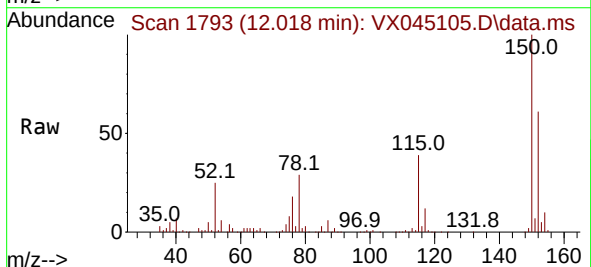
Instrument :
MSVOA_X
ClientSampleId :

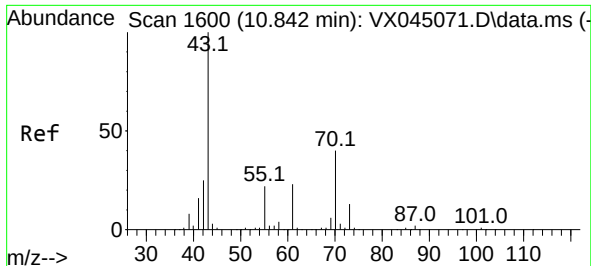
Tgt Ion:117 Resp: 143120
Ion Ratio Lower Upper
117 100
82 59.0 46.3 69.5
119 31.6 25.7 38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045105.D
Acq: 03 Mar 2025 11:30

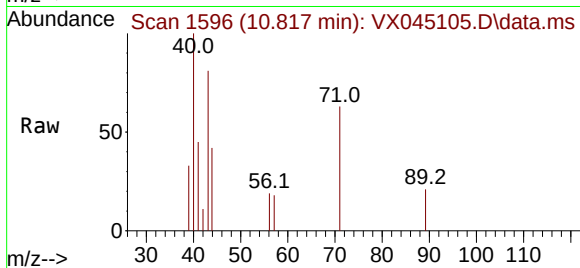
Tgt Ion:152 Resp: 62542
Ion Ratio Lower Upper
152 100
115 60.8 44.2 132.6
150 156.1 0.0 349.0



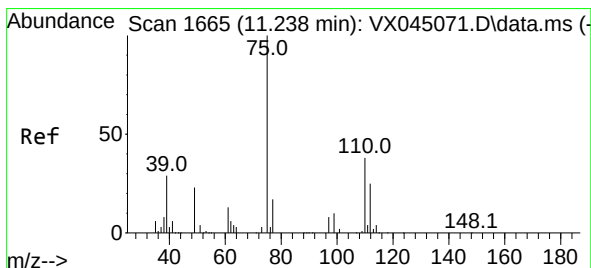
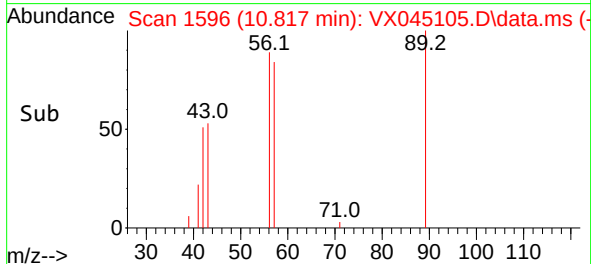
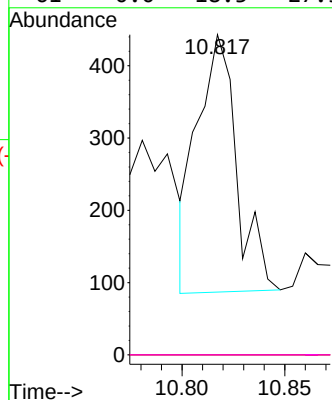


#74
N-amy1 acetate
Concen: 0.208 ug/l
RT: 10.817 min Scan# 1639
Delta R.T. -0.024 min
Lab File: VX045105.D
Acq: 03 Mar 2025 11:30

Instrument :
MSVOA_X
ClientSampleId :

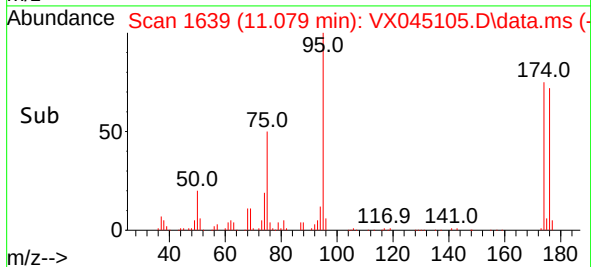
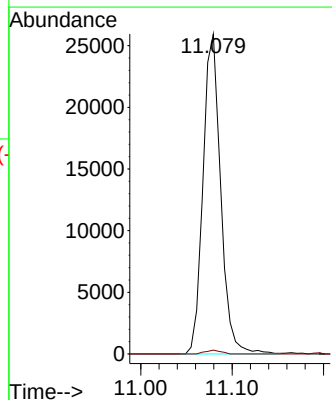
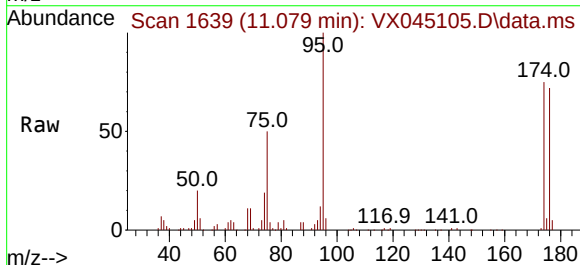


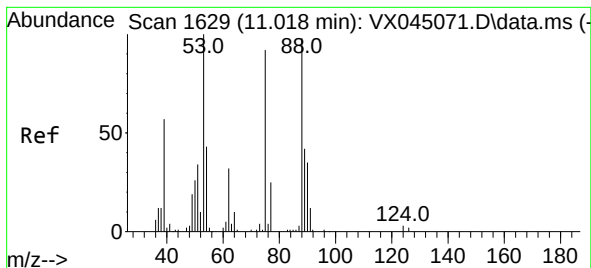
Tgt Ion: 43	Resp: 476
Ion Ratio	Lower Upper
43 100	
70 0.0	31.8 47.6#
55 0.0	18.3 27.5#
61 0.0	18.3 27.5#



#76
1,2,3-Trichloropropane
Concen: 23.901 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX045105.D
Acq: 03 Mar 2025 11:30

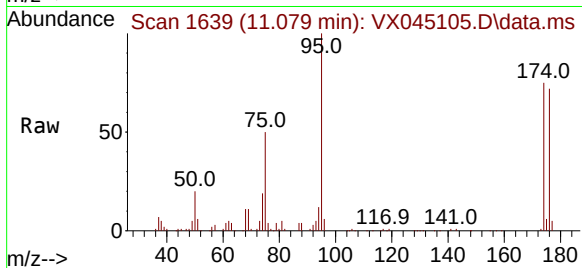
Tgt Ion: 75	Resp: 34792
Ion Ratio	Lower Upper
75 100	
77 1.1	20.7 62.1#



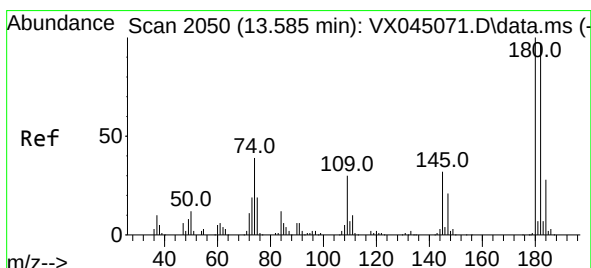
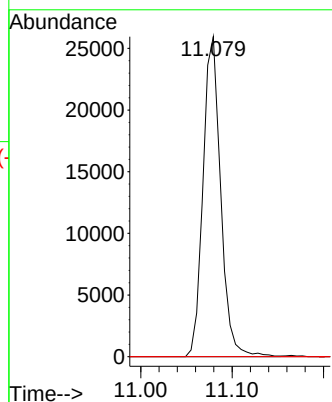
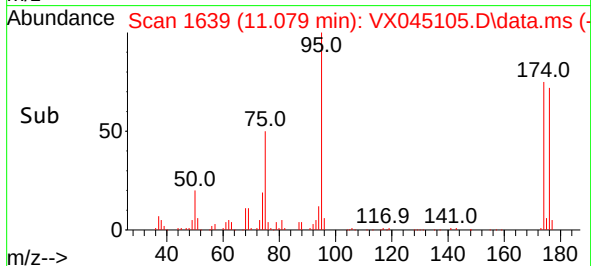


#81
trans-1,4-Dichloro-2-butene
Concen: 81.794 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX045105.D
Acq: 03 Mar 2025 11:30

Instrument :
MSVOA_X
ClientSampleId :

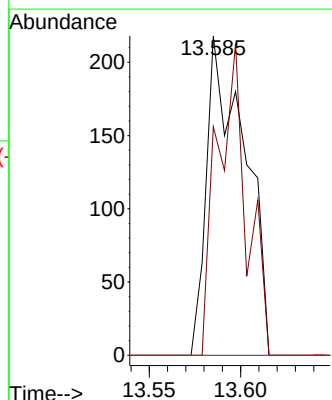
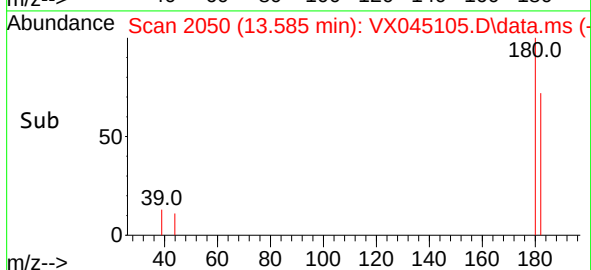
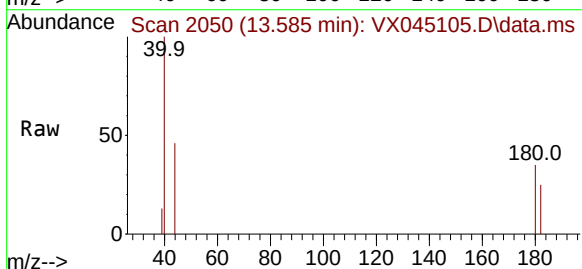


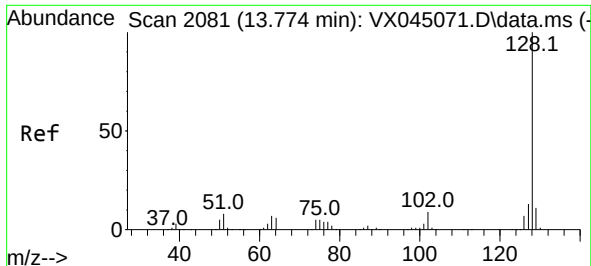
Tgt Ion: 75 Resp: 34792
Ion Ratio Lower Upper
75 100
53 0.0 88.5 132.7#
89 0.0 36.2 54.4#



#93
1,2,4-Trichlorobenzene
Concen: 0.268 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. 0.000 min
Lab File: VX045105.D
Acq: 03 Mar 2025 11:30

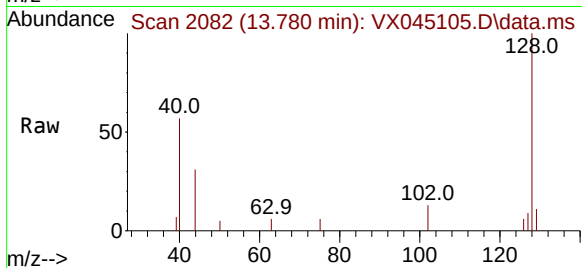
Tgt Ion: 180 Resp: 315
Ion Ratio Lower Upper
180 100
182 76.2 47.3 141.9
145 0.0 16.3 48.9#



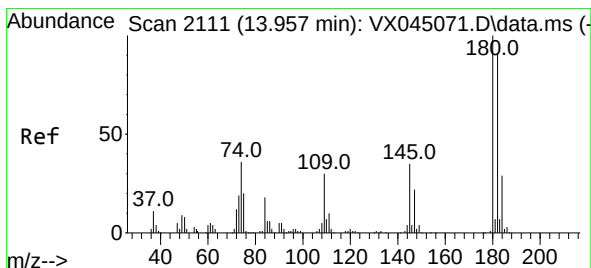
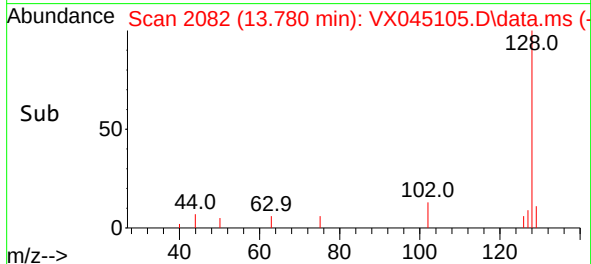
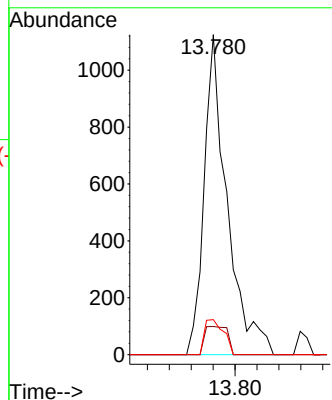


#95
Naphthalene
Concen: 0.362 ug/l
RT: 13.780 min Scan# 2081
Delta R.T. 0.006 min
Lab File: VX045105.D
Acq: 03 Mar 2025 11:30

Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion:128 Resp: 1634
Ion Ratio Lower Upper
128 100
127 8.7 10.3 15.5#
129 9.1 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 0.246 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX045105.D
Acq: 03 Mar 2025 11:30

Tgt Ion:180 Resp: 304
Ion Ratio Lower Upper
180 100
182 93.8 47.5 142.6
145 21.1 17.0 50.9

