

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX020325\
 Data File : VX044809.D
 Acq On : 03 Feb 2025 12:41
 Operator : JC/MD
 Sample : Q1216-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Feb 04 02:08:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 16 01:16:09 2025
 Response via : Initial Calibration

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

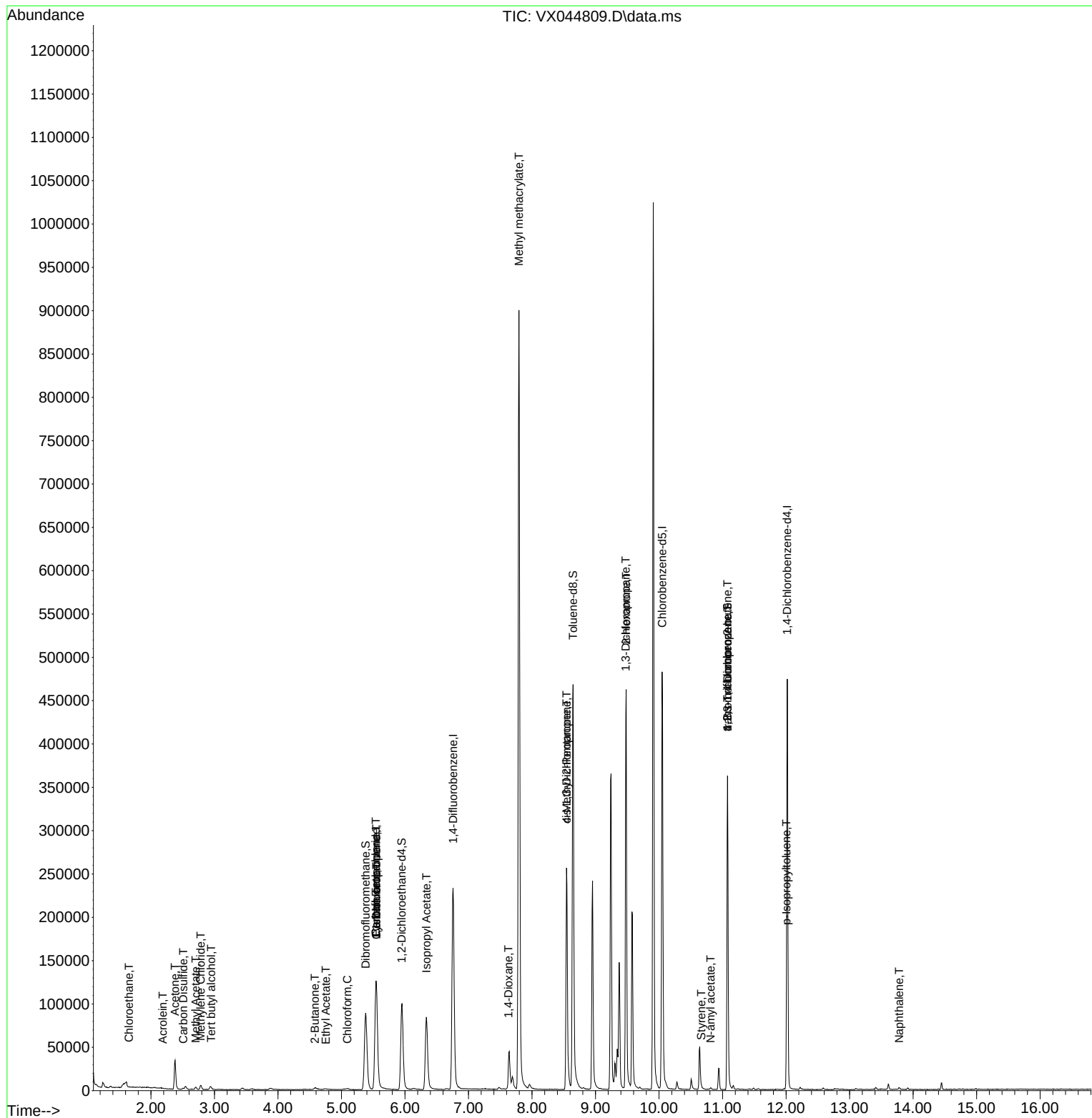
Internal Standards						
1) Pentafluorobenzene	5.544	168	123160	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	250036	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	218940	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	93786	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	90234	48.539	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	97.080%		
35) Dibromofluoromethane	5.379	113	79443	50.013	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	100.020%		
50) Toluene-d8	8.647	98	296369	53.510	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	107.020%		
62) 4-Bromofluorobenzene	11.079	95	100988	48.911	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	97.820%		
Target Compounds						Qvalue
6) Chloroethane	1.654	64	259	0.798	ug/l #	41
11) Tert butyl alcohol	2.947	59	2292	5.530	ug/l #	85
13) Acrolein	2.185	56	68	0.349	ug/l #	15
16) Acetone	2.380	43	35732	48.582	ug/l	94
17) Carbon Disulfide	2.508	76	1632	0.415	ug/l	100
18) Methyl Acetate	2.703	43	3903	1.720	ug/l	98
20) Methylene Chloride	2.782	84	2312	1.350	ug/l	97
25) 2-Butanone	4.580	43	1388	1.269	ug/l #	61
30) Chloroform	5.093	83	1569	0.537	ug/l	95
31) Cyclohexane	5.550	56	2932	1.253	ug/l #	1
36) 1,1-Dichloropropene	5.550	75	10498	4.748	ug/l #	48
37) Ethyl Acetate	4.751	43	1829	0.777	ug/l #	81
38) Carbon Tetrachloride	5.544	117	12574	5.056	ug/l #	15
43) Isopropyl Acetate	6.336	43	123523	28.516	ug/l	98
48) Methyl methacrylate	7.793	41	73572	36.590	ug/l #	42
49) 1,4-Dioxane	7.629	88	19	0.453	ug/l #	1
51) 4-Methyl-2-Pentanone	8.543	43	94037	39.283	ug/l #	50
54) cis-1,3-Dichloropropene	8.543	75	45561	15.104	ug/l #	58
57) 1,3-Dichloropropane	9.476	76	4313	1.493	ug/l #	42
59) 2-Hexanone	9.482	43	57442	32.616	ug/l #	50
70) Styrene	10.665	104	1535	0.312	ug/l #	85
74) N-amyl acetate	10.811	43	1132	0.300	ug/l #	42
76) 1,2,3-Trichloropropane	11.079	75	51156	22.476	ug/l #	32
81) trans-1,4-Dichloro-2-b...	11.079	75	51156	51.399	ug/l #	12
86) p-Isopropyltoluene	12.006	119	8328	1.335	ug/l	96
95) Naphthalene	13.780	128	2222	0.302	ug/l #	92

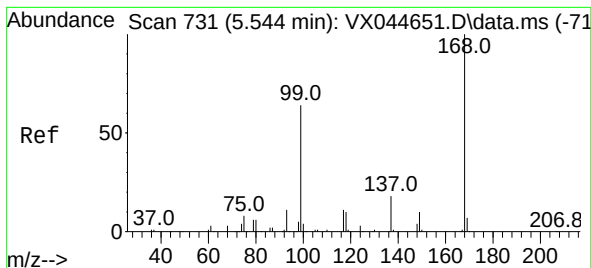
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.544 min Scan# 71

Delta R.T. -0.000 min MSVOA_X

Lab File: VX044809.D

Acq: 03 Feb 2025 12:41

Instrument :

MSVOA_X

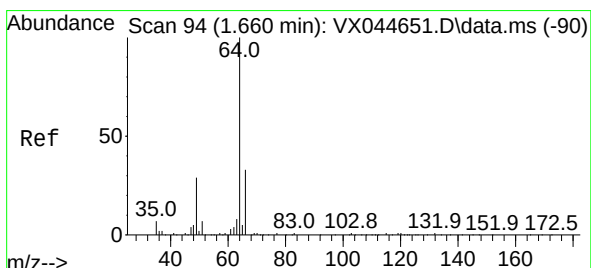
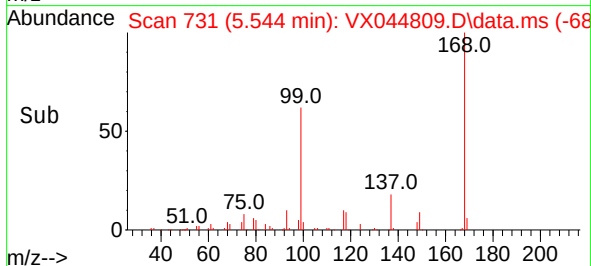
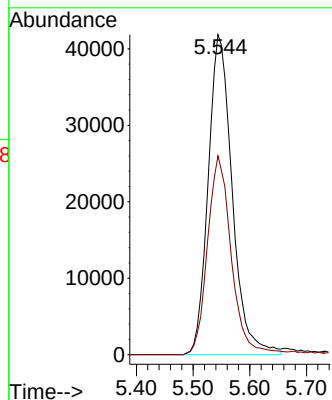
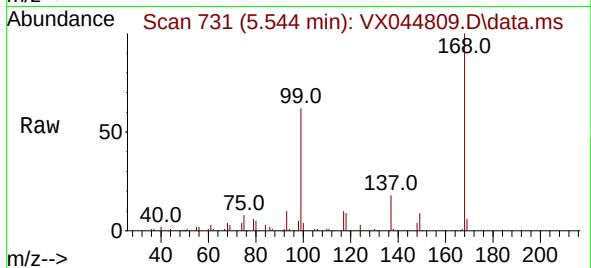
ClientSampleId :

Tgt Ion:168 Resp: 123160

Ion Ratio Lower Upper

168 100

99 62.1 51.1 76.7



#6

Chloroethane

Concen: 0.798 ug/l

RT: 1.654 min Scan# 93

Delta R.T. -0.006 min

Lab File: VX044809.D

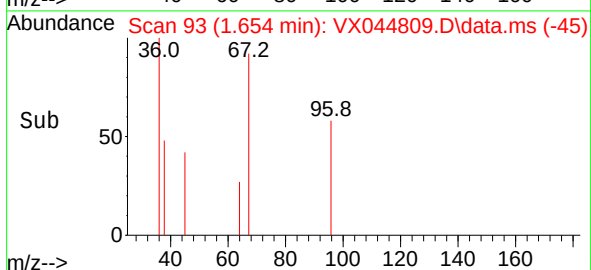
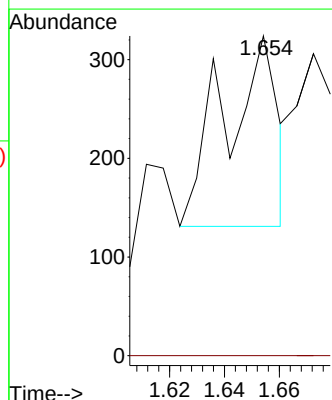
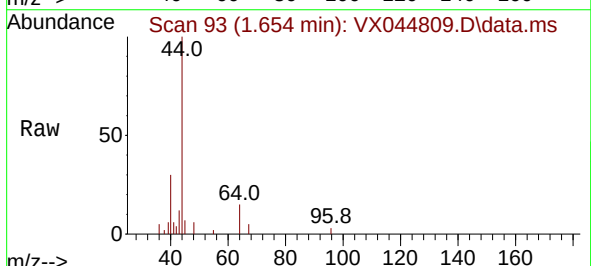
Acq: 03 Feb 2025 12:41

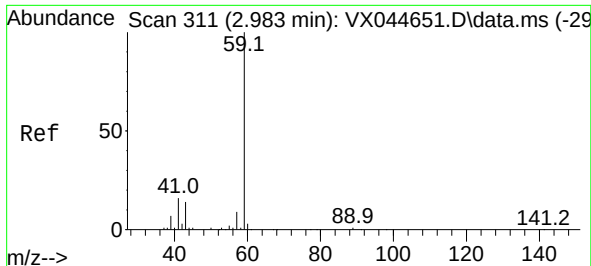
Tgt Ion: 64 Resp: 259

Ion Ratio Lower Upper

64 100

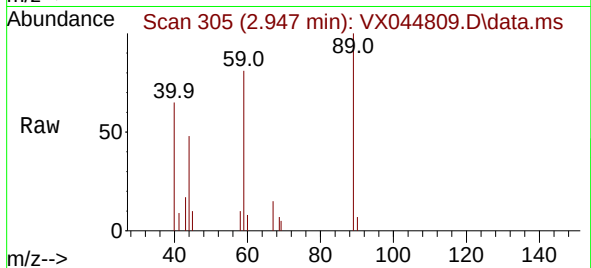
66 0.0 26.6 39.8#



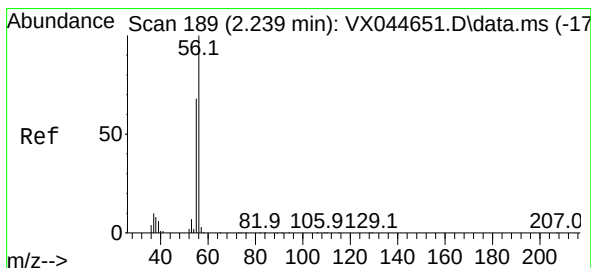
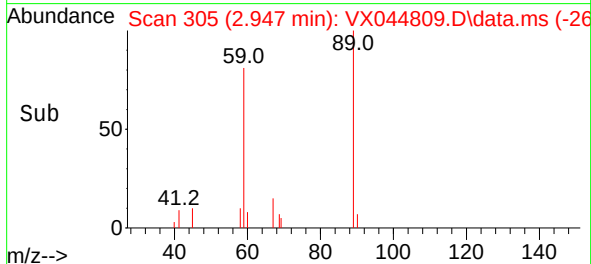
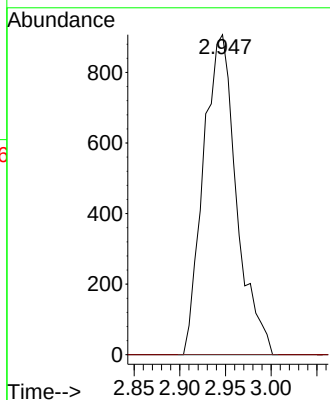


#11
Tert butyl alcohol
Concen: 5.530 ug/l
RT: 2.947 min Scan# 305
Delta R.T. -0.036 min
Lab File: VX044809.D
Acq: 03 Feb 2025 12:41

Instrument :
MSVOA_X
ClientSampleId :

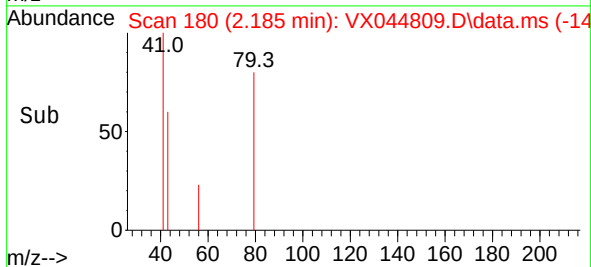
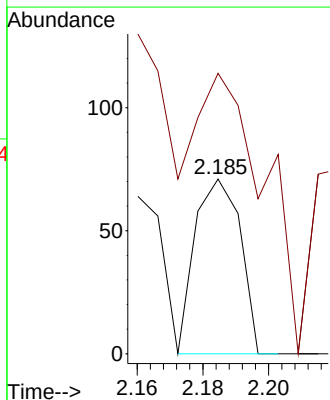
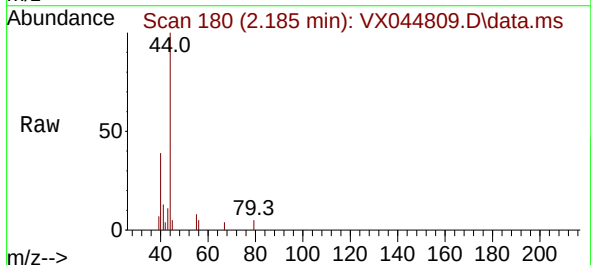


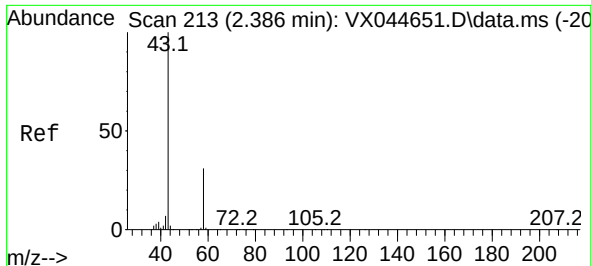
Tgt Ion: 59 Resp: 2292
Ion Ratio Lower Upper
59 100
57 0.0 3.9 5.9#



#13
Acrolein
Concen: 0.349 ug/l
RT: 2.185 min Scan# 180
Delta R.T. -0.055 min
Lab File: VX044809.D
Acq: 03 Feb 2025 12:41

Tgt Ion: 56 Resp: 68
Ion Ratio Lower Upper
56 100
55 0.0 55.1 82.7#

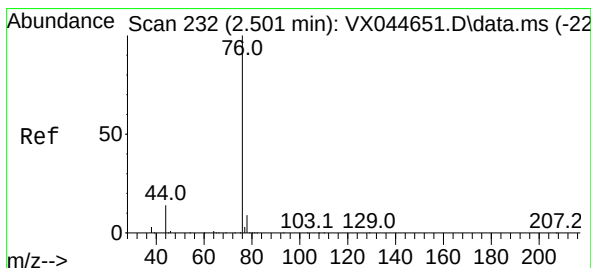
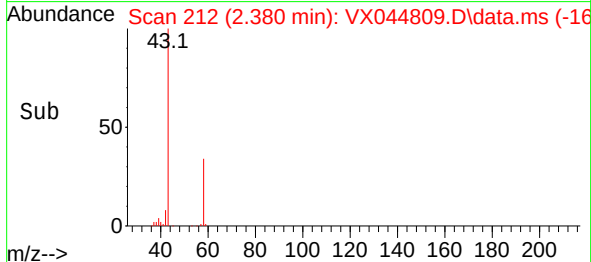
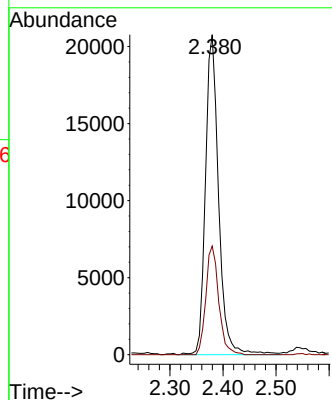
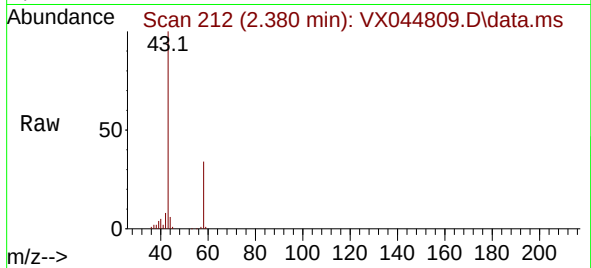




#16
Acetone
Concen: 48.582 ug/l
RT: 2.380 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044809.D
Acq: 03 Feb 2025 12:41

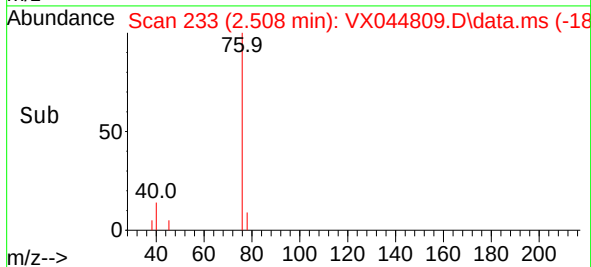
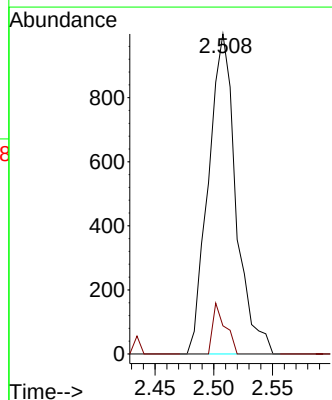
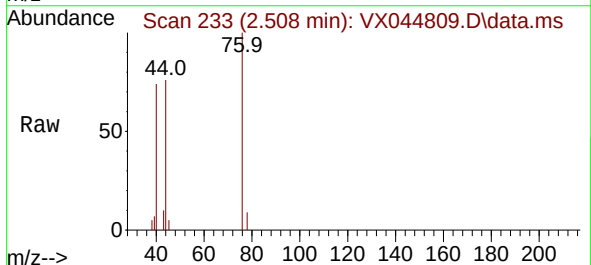
Instrument :
MSVOA_X
ClientSampleId :

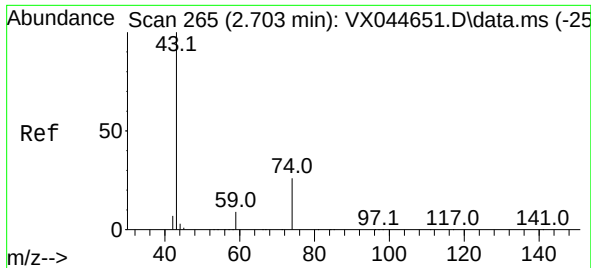
Tgt Ion: 43 Resp: 35732
Ion Ratio Lower Upper
43 100
58 34.0 24.6 37.0



#17
Carbon Disulfide
Concen: 0.415 ug/l
RT: 2.508 min Scan# 233
Delta R.T. 0.006 min
Lab File: VX044809.D
Acq: 03 Feb 2025 12:41

Tgt Ion: 76 Resp: 1632
Ion Ratio Lower Upper
76 100
78 8.8 7.1 10.7

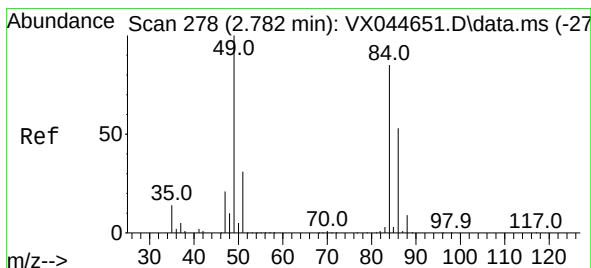
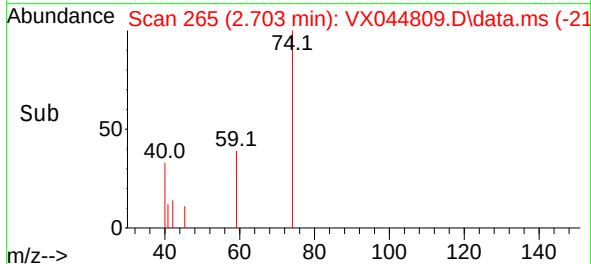
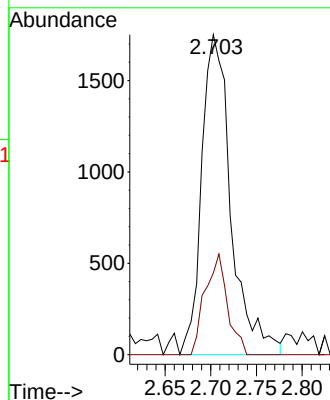
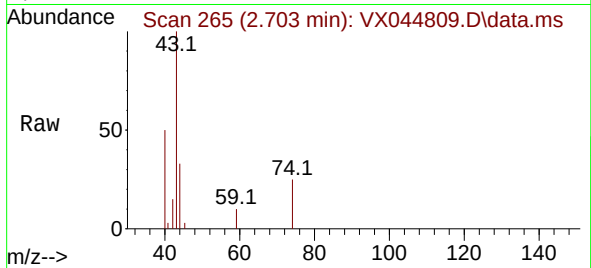




#18
Methyl Acetate
Concen: 1.720 ug/l
RT: 2.703 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX044809.D
Acq: 03 Feb 2025 12:41

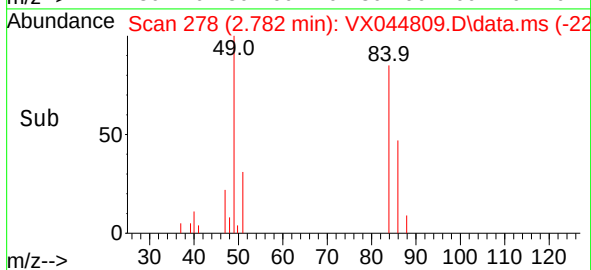
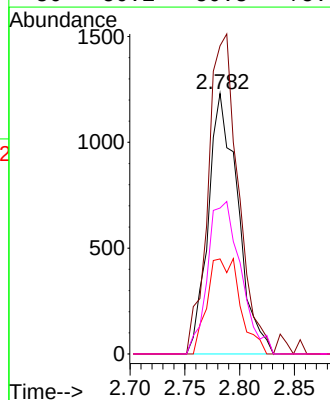
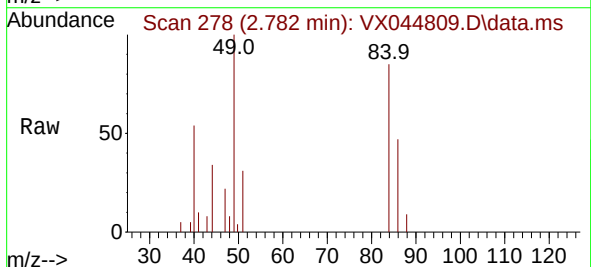
Instrument :
MSVOA_X
ClientSampleId :

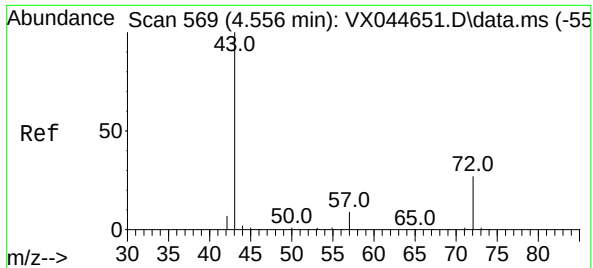
Tgt Ion: 43 Resp: 3903
Ion Ratio Lower Upper
43 100
74 24.0 19.8 29.8



#20
Methylene Chloride
Concen: 1.350 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044809.D
Acq: 03 Feb 2025 12:41

Tgt Ion: 84 Resp: 2312
Ion Ratio Lower Upper
84 100
49 118.3 94.2 141.4
51 36.5 28.8 43.2
86 56.1 50.3 75.5





#25

2-Butanone

Concen: 1.269 ug/l

RT: 4.580 min Scan# 51

Delta R.T. 0.025 min

Lab File: VX044809.D

Acq: 03 Feb 2025 12:41

Instrument :

MSVOA_X

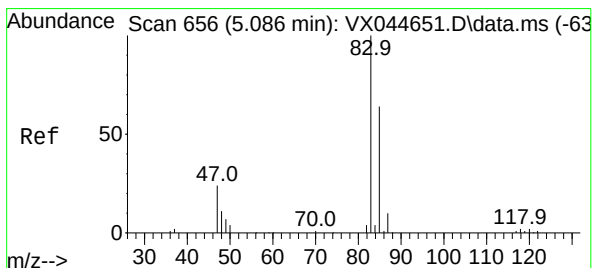
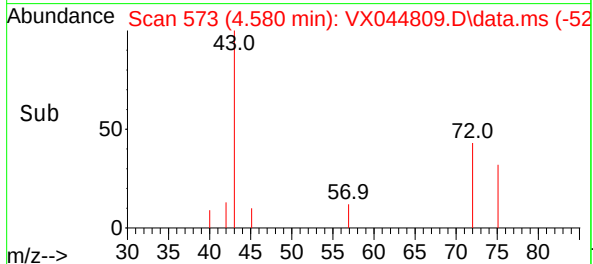
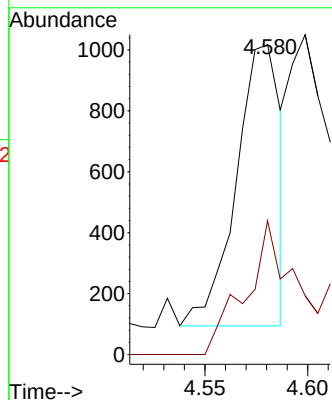
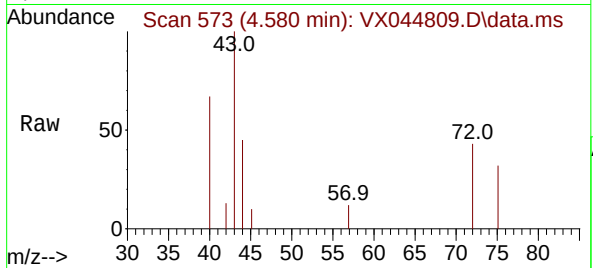
ClientSampleId :

Tgt Ion: 43 Resp: 1388

Ion Ratio Lower Upper

43 100

72 47.6 21.7 32.5#



#30

Chloroform

Concen: 0.537 ug/l

RT: 5.093 min Scan# 657

Delta R.T. 0.006 min

Lab File: VX044809.D

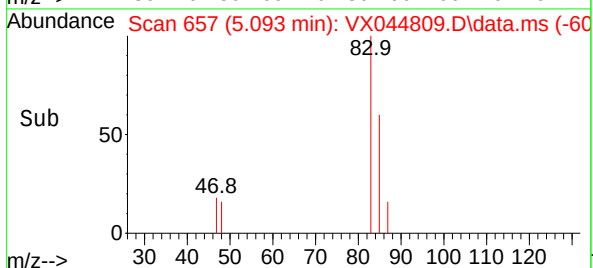
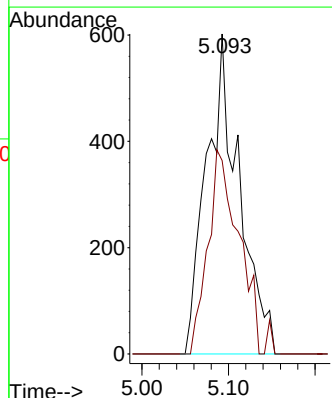
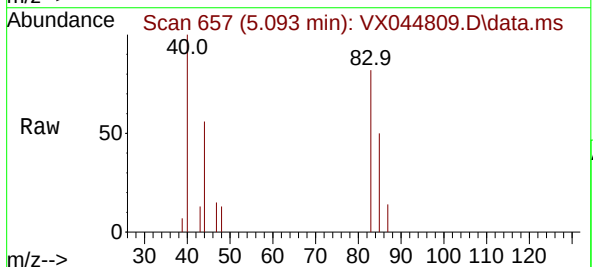
Acq: 03 Feb 2025 12:41

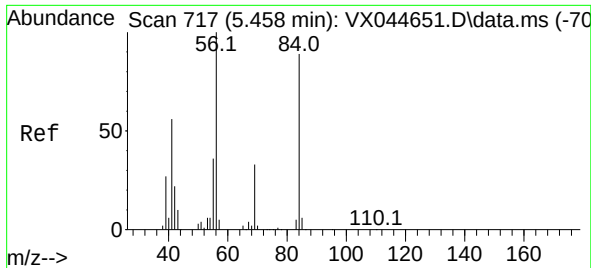
Tgt Ion: 83 Resp: 1569

Ion Ratio Lower Upper

83 100

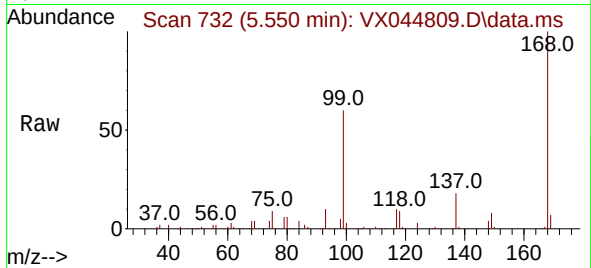
85 60.5 51.2 76.8



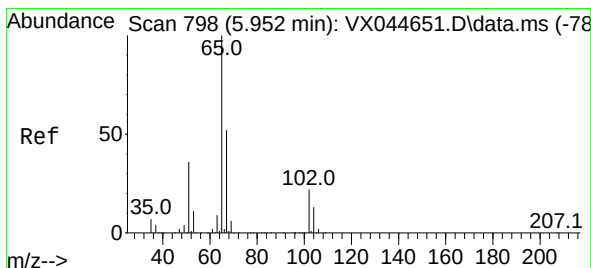
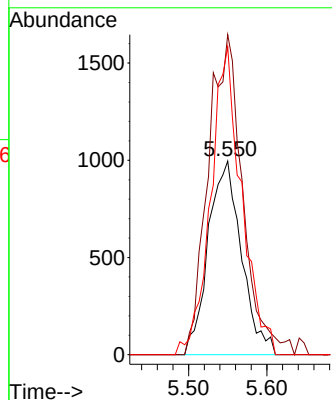
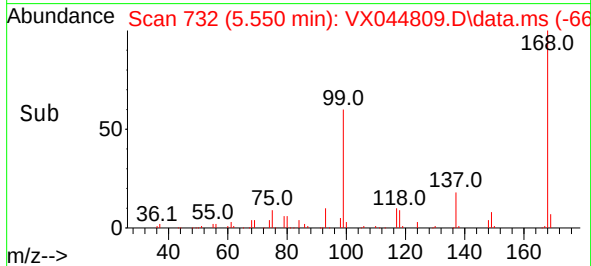


#31
Cyclohexane
Concen: 1.253 ug/l
RT: 5.550 min Scan# 717
Delta R.T. 0.092 min
Lab File: VX044809.D
Acq: 03 Feb 2025 12:41

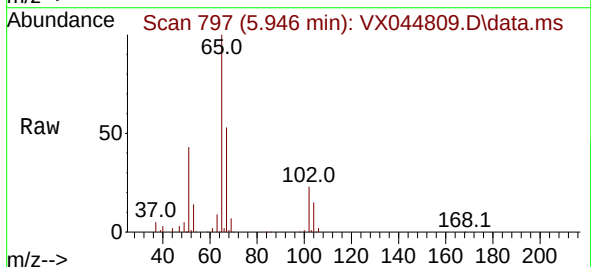
Instrument :
MSVOA_X
ClientSampleId :



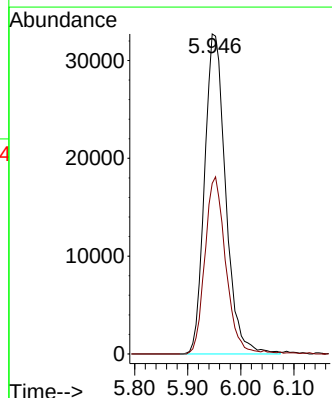
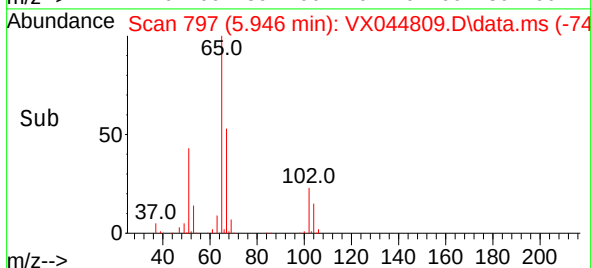
Tgt Ion: 56 Resp: 2932
Ion Ratio Lower Upper
56 100
69 165.3 26.8 40.2#
84 159.0 71.0 106.4#

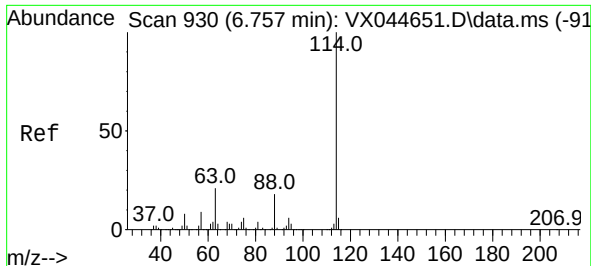


#33
1,2-Dichloroethane-d4
Concen: 48.539 ug/l
RT: 5.946 min Scan# 797
Delta R.T. -0.006 min
Lab File: VX044809.D
Acq: 03 Feb 2025 12:41



Tgt Ion: 65 Resp: 90234
Ion Ratio Lower Upper
65 100
67 54.3 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. 0.000 min

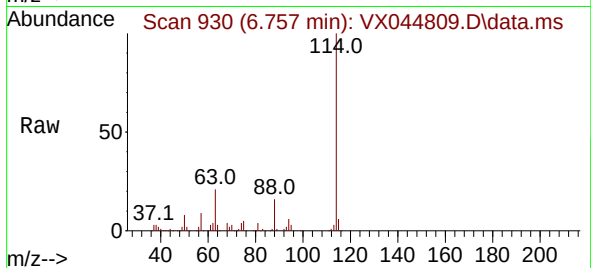
Lab File: VX044809.D

Acq: 03 Feb 2025 12:41

Instrument :

MSVOA_X

ClientSampleId :



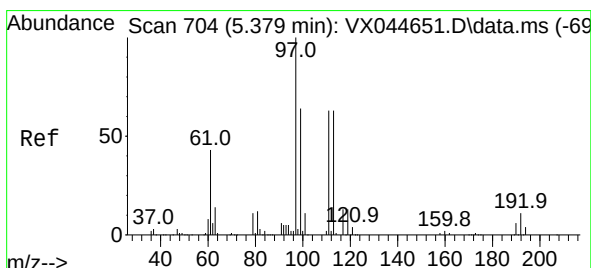
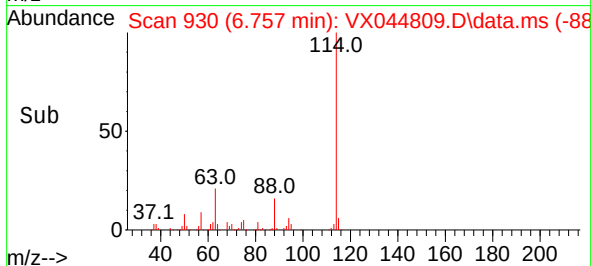
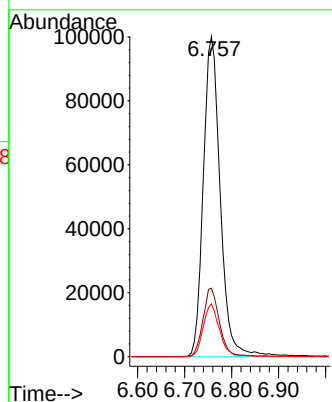
Tgt Ion:114 Resp: 250036

Ion Ratio Lower Upper

114 100

63 21.4 0.0 43.0

88 16.5 0.0 35.4



#35

Dibromofluoromethane

Concen: 50.013 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX044809.D

Acq: 03 Feb 2025 12:41

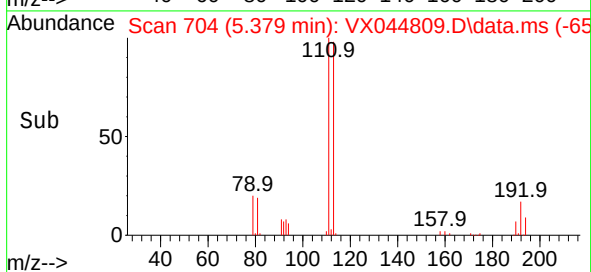
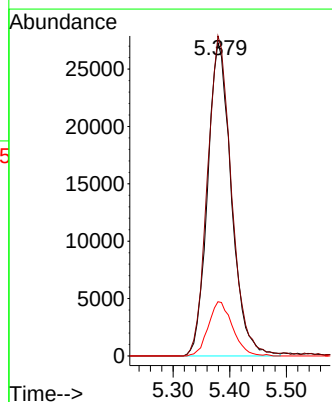
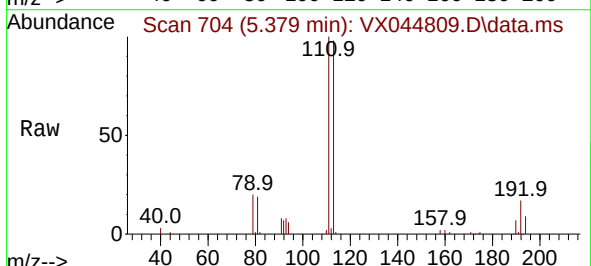
Tgt Ion:113 Resp: 79443

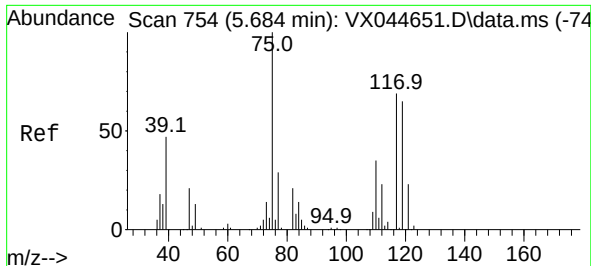
Ion Ratio Lower Upper

113 100

111 103.4 81.6 122.4

192 17.7 14.4 21.6





#36

1,1-Dichloropropene

Concen: 4.748 ug/l

RT: 5.550 min Scan# 74

Delta R.T. -0.134 min

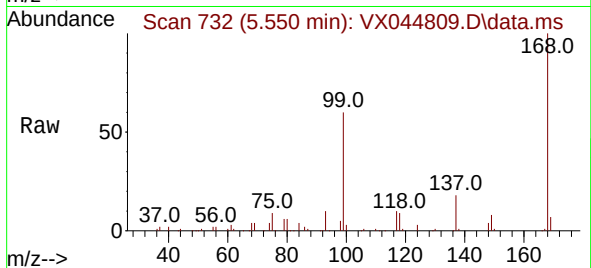
Lab File: VX044809.D

Acq: 03 Feb 2025 12:41

Instrument :

MSVOA_X

ClientSampleId :



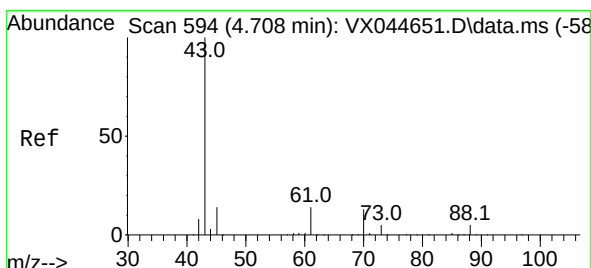
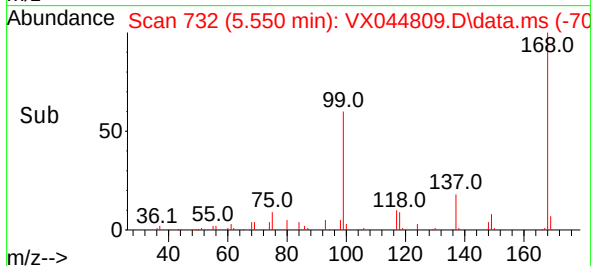
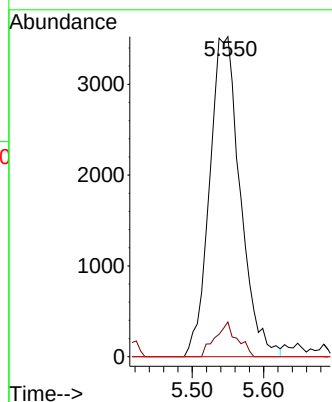
Tgt Ion: 75 Resp: 10498

Ion Ratio Lower Upper

75 100

110 7.7 17.9 53.8#

77 0.0 24.5 36.7#



#37

Ethyl Acetate

Concen: 0.777 ug/l

RT: 4.751 min Scan# 601

Delta R.T. 0.043 min

Lab File: VX044809.D

Acq: 03 Feb 2025 12:41

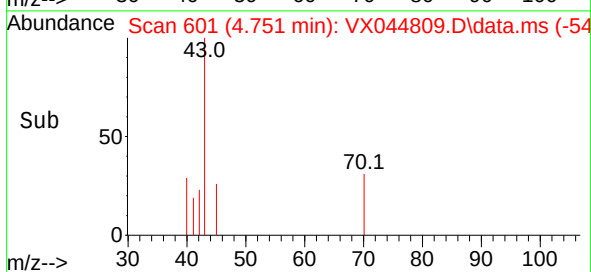
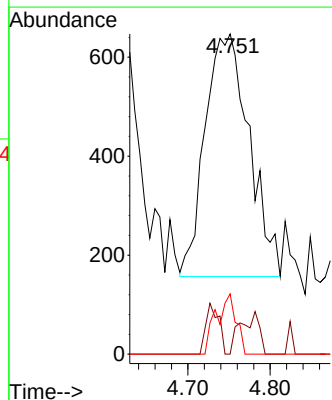
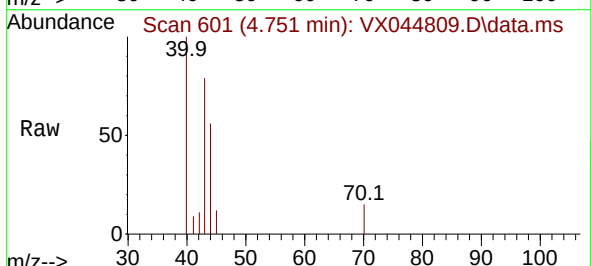
Tgt Ion: 43 Resp: 1829

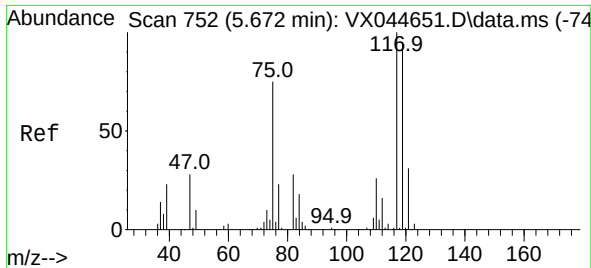
Ion Ratio Lower Upper

43 100

61 0.0 10.9 16.3#

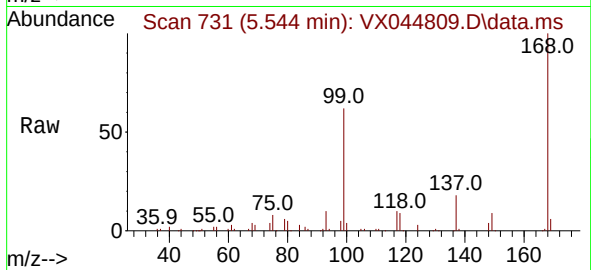
70 11.2 10.1 15.1



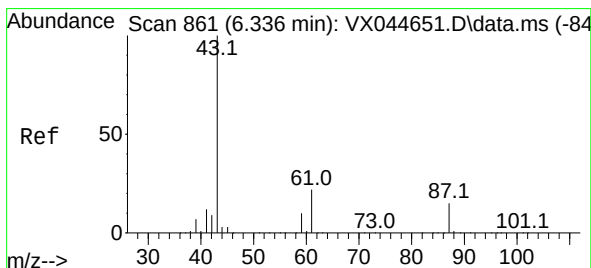
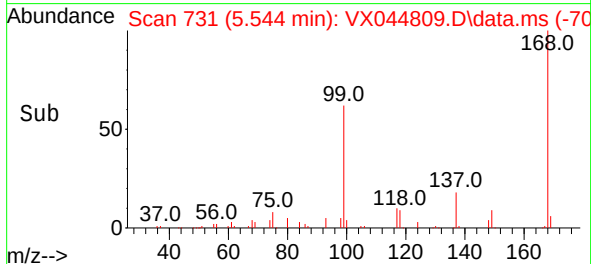
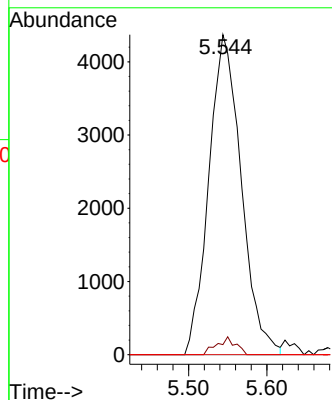


#38
Carbon Tetrachloride
Concen: 5.056 ug/l
RT: 5.544 min Scan# 752
Delta R.T. -0.128 min
Lab File: VX044809.D
Acq: 03 Feb 2025 12:41

Instrument :
MSVOA_X
ClientSampleId :

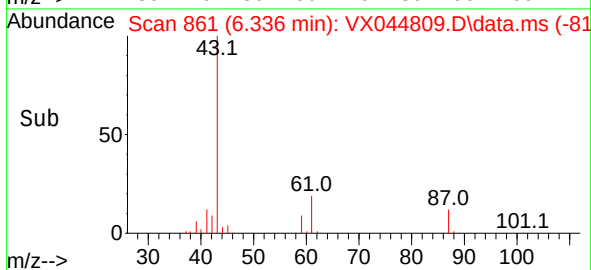
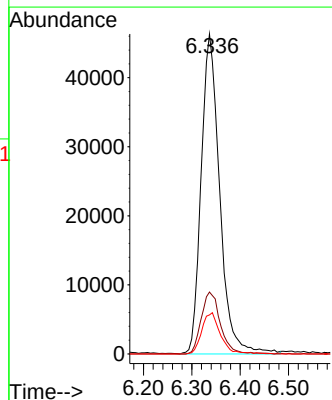
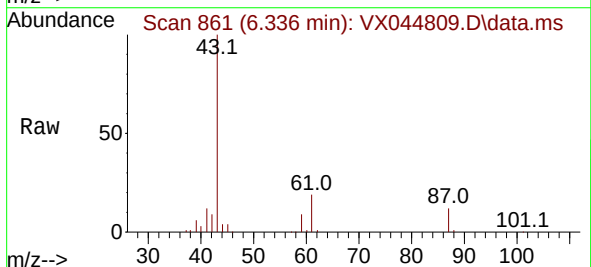


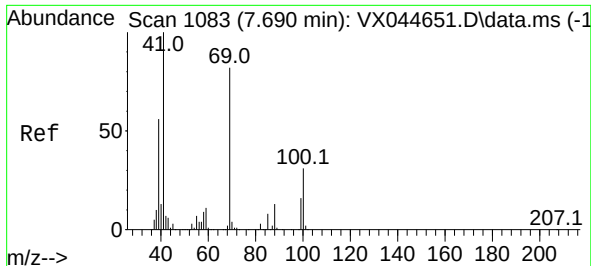
Tgt Ion:117 Resp: 12574
Ion Ratio Lower Upper
117 100
119 3.2 76.0 114.0#
121 0.0 24.6 36.8#



#43
Isopropyl Acetate
Concen: 28.516 ug/l
RT: 6.336 min Scan# 861
Delta R.T. 0.000 min
Lab File: VX044809.D
Acq: 03 Feb 2025 12:41

Tgt Ion: 43 Resp: 123523
Ion Ratio Lower Upper
43 100
61 19.8 16.6 24.8
87 12.8 11.0 16.6

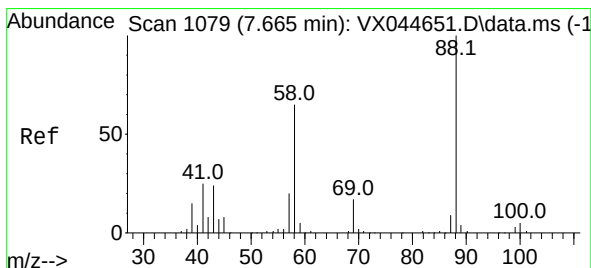
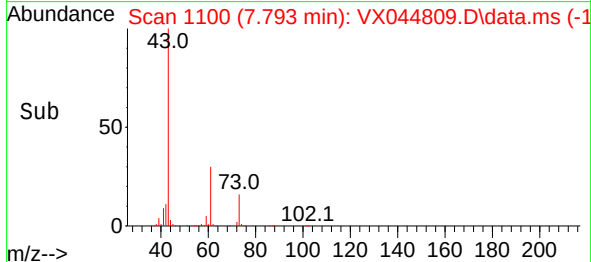
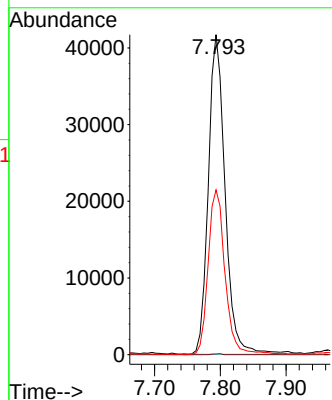
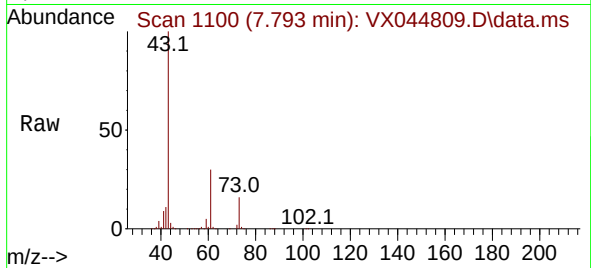




#48
Methyl methacrylate
Concen: 36.590 ug/l
RT: 7.793 min Scan# 1100
Delta R.T. 0.104 min
Lab File: VX044809.D
Acq: 03 Feb 2025 12:41

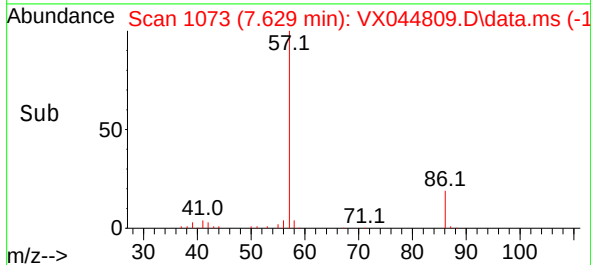
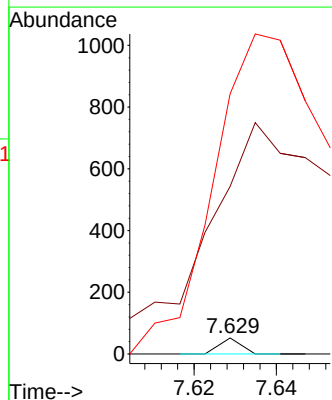
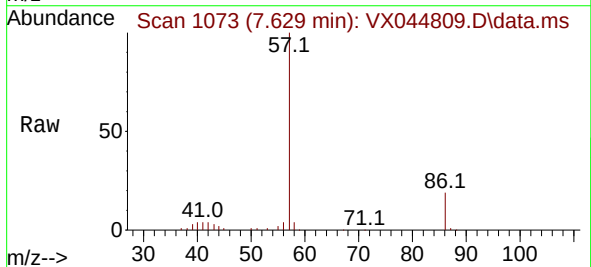
Instrument :
MSVOA_X
ClientSampleId :

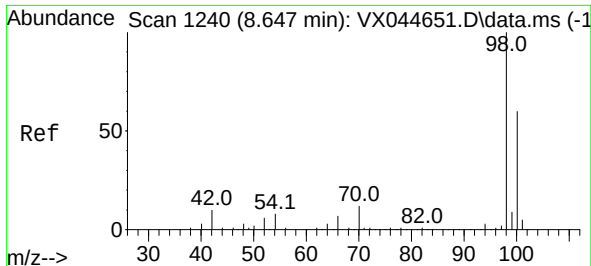
Tgt Ion: 41 Resp: 73572
Ion Ratio Lower Upper
41 100
69 0.1 66.8 100.2#
39 52.2 47.4 71.0



#49
1,4-Dioxane
Concen: 0.453 ug/l
RT: 7.629 min Scan# 1073
Delta R.T. -0.036 min
Lab File: VX044809.D
Acq: 03 Feb 2025 12:41

Tgt Ion: 88 Resp: 19
Ion Ratio Lower Upper
88 100
43 0.0 27.0 40.4#
58 11715.8 55.8 83.8#

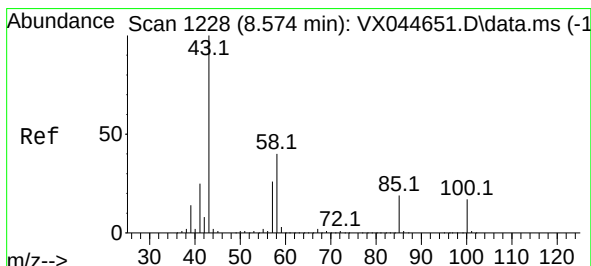
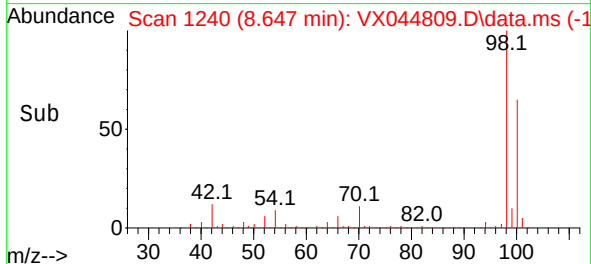
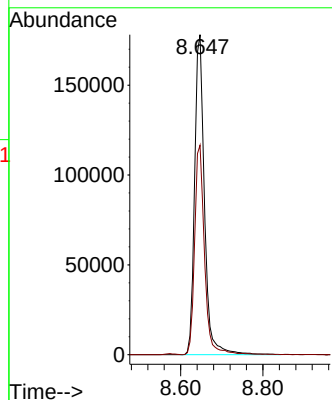
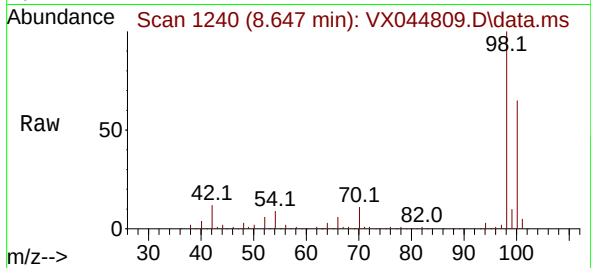




#50
Toluene-d8
Concen: 53.510 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044809.D
Acq: 03 Feb 2025 12:41

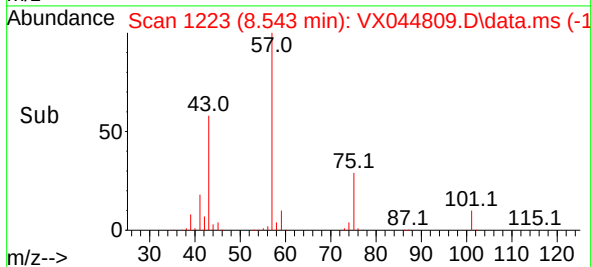
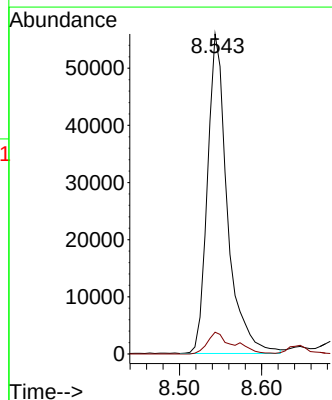
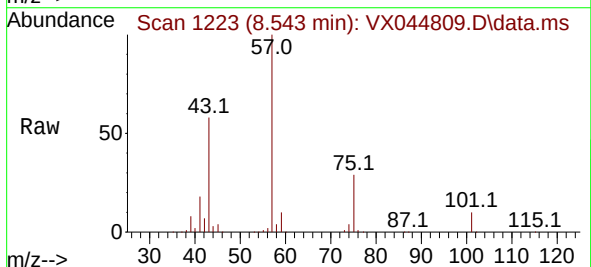
Instrument :
MSVOA_X
ClientSampleId :

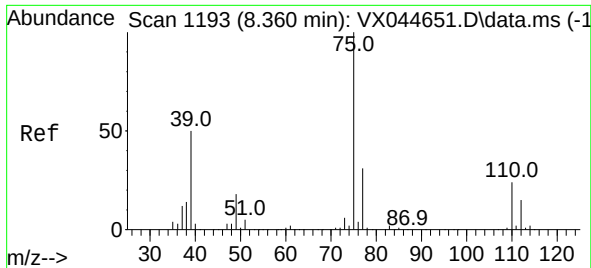
Tgt Ion: 98 Resp: 296369
Ion Ratio Lower Upper
98 100
100 65.6 53.2 79.8



#51
4-Methyl-2-Pentanone
Concen: 39.283 ug/l
RT: 8.543 min Scan# 1223
Delta R.T. -0.030 min
Lab File: VX044809.D
Acq: 03 Feb 2025 12:41

Tgt Ion: 43 Resp: 94037
Ion Ratio Lower Upper
43 100
58 8.9 31.9 47.9#

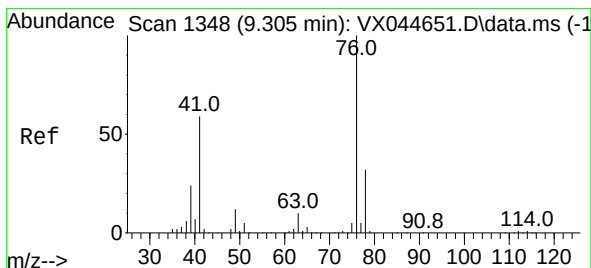
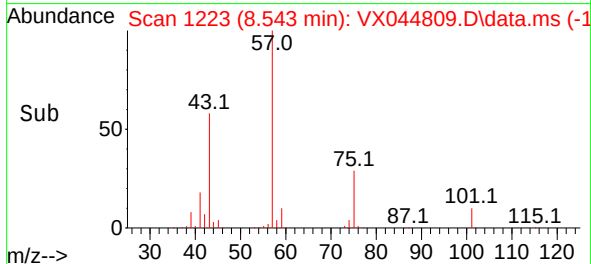
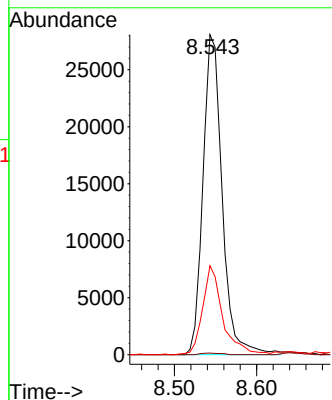
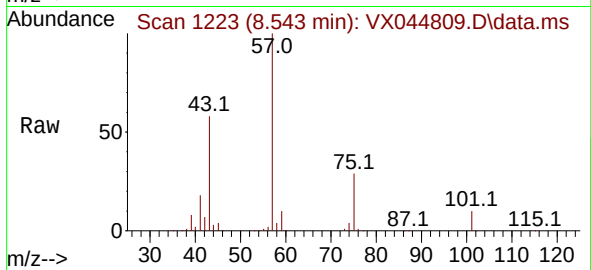




#54
 cis-1,3-Dichloropropene
 Concen: 15.104 ug/l
 RT: 8.543 min Scan# 1193
 Delta R.T. 0.183 min
 Lab File: VX044809.D
 Acq: 03 Feb 2025 12:41

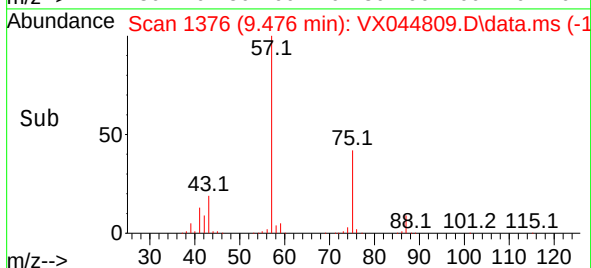
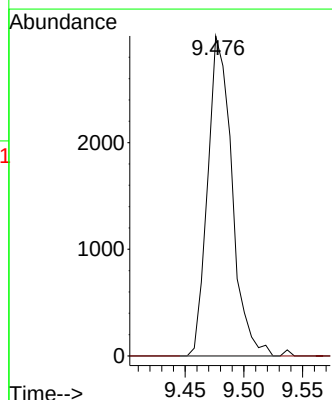
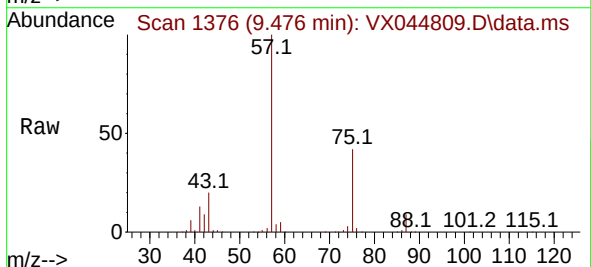
Instrument :
 MSVOA_X
 ClientSampleId :

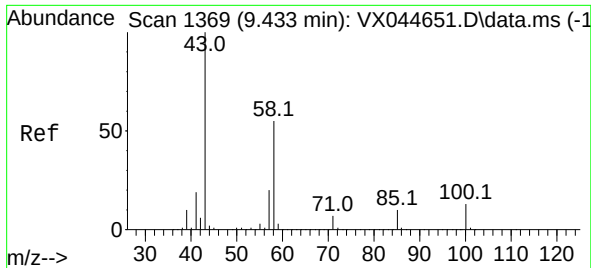
Tgt Ion: 75 Resp: 45561
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.1 37.7#
 39 27.5 40.3 60.5#



#57
 1,3-Dichloropropane
 Concen: 1.493 ug/l
 RT: 9.476 min Scan# 1376
 Delta R.T. 0.171 min
 Lab File: VX044809.D
 Acq: 03 Feb 2025 12:41

Tgt Ion: 76 Resp: 4313
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#

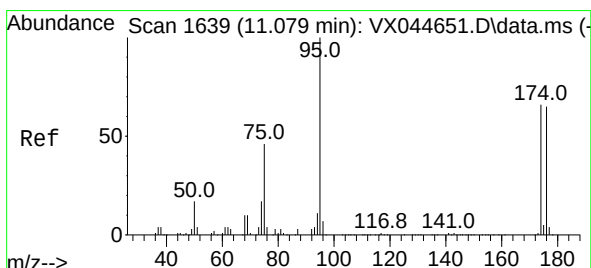
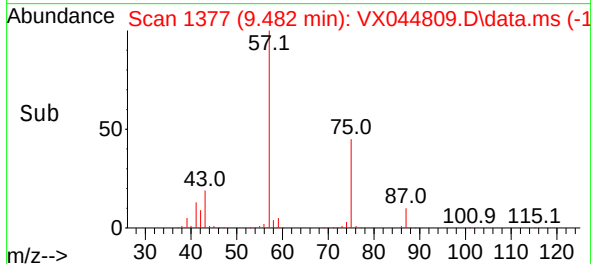
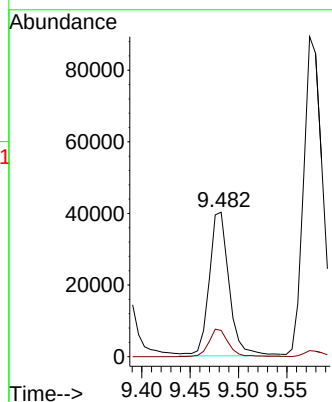
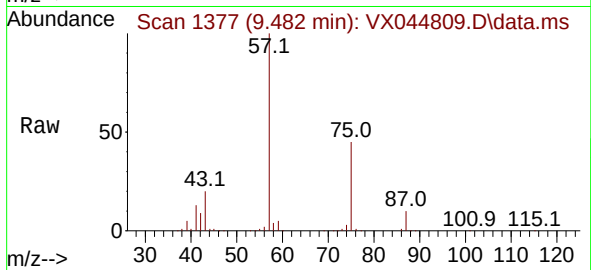




#59
2-Hexanone
Concen: 32.616 ug/l
RT: 9.482 min Scan# 1377
Delta R.T. 0.049 min
Lab File: VX044809.D
Acq: 03 Feb 2025 12:41

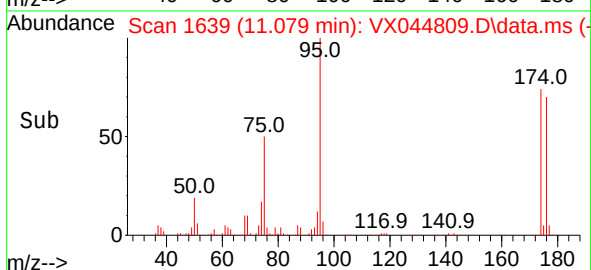
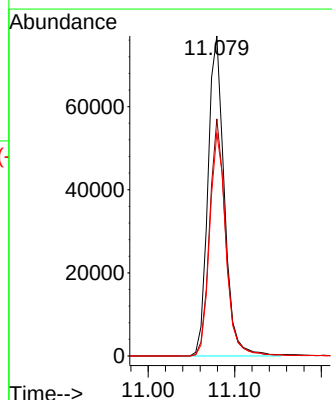
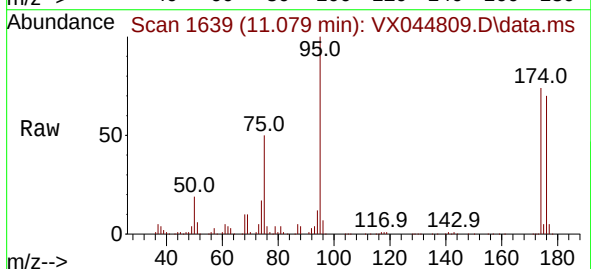
Instrument :
MSVOA_X
ClientSampleId :

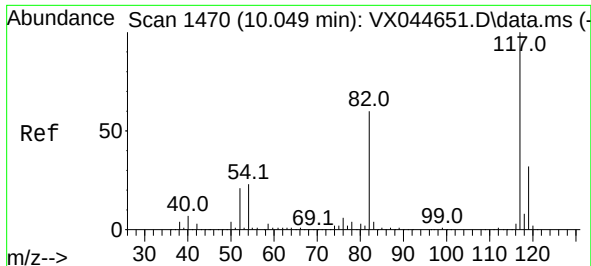
Tgt Ion: 43 Resp: 57442
Ion Ratio Lower Upper
43 100
58 19.1 27.8 83.3#



#62
4-Bromofluorobenzene
Concen: 48.911 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044809.D
Acq: 03 Feb 2025 12:41

Tgt Ion: 95 Resp: 100988
Ion Ratio Lower Upper
95 100
174 73.2 0.0 133.0
176 69.6 0.0 129.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX044809.D

Acq: 03 Feb 2025 12:41

Instrument :

MSVOA_X

ClientSampleId :

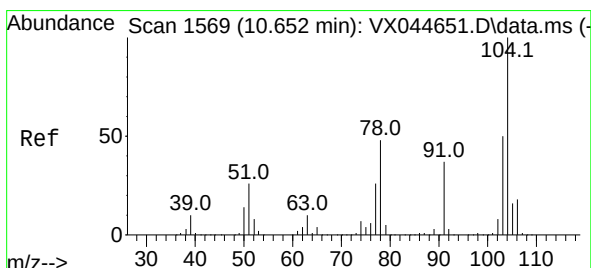
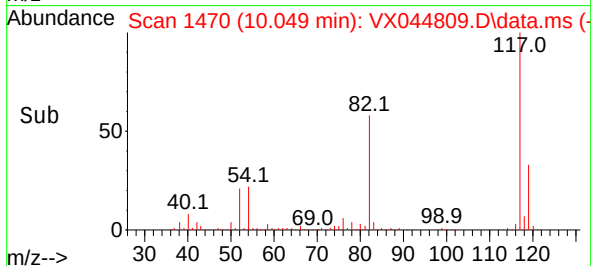
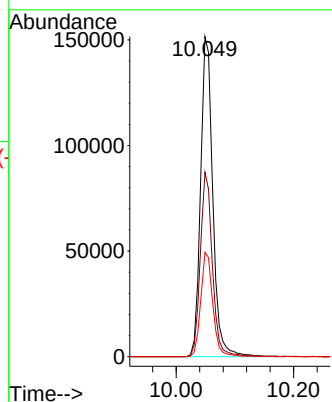
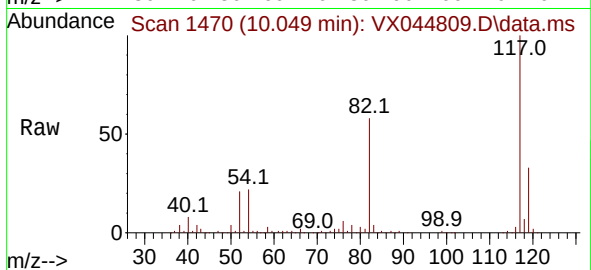
Tgt Ion:117 Resp: 218940

Ion Ratio Lower Upper

117 100

82 57.6 47.6 71.4

119 32.6 25.4 38.2



#70

Styrene

Concen: 0.312 ug/l

RT: 10.665 min Scan# 1571

Delta R.T. 0.012 min

Lab File: VX044809.D

Acq: 03 Feb 2025 12:41

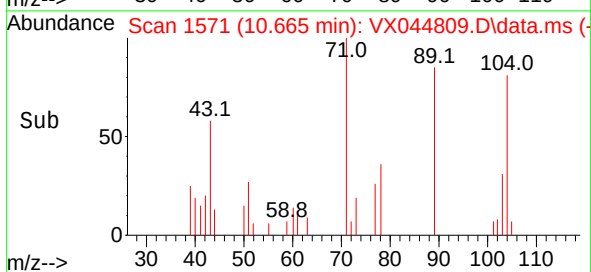
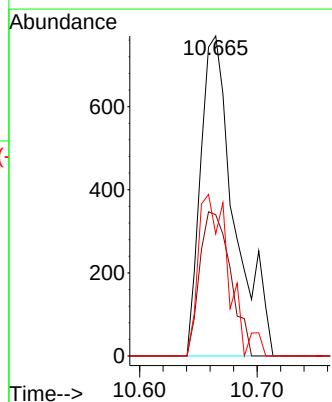
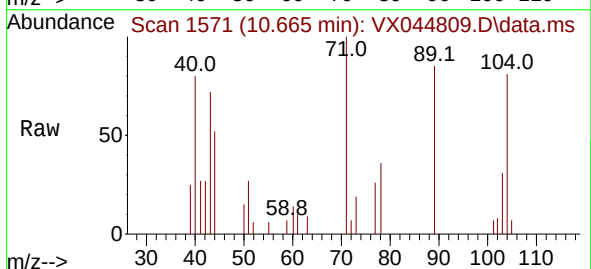
Tgt Ion:104 Resp: 1535

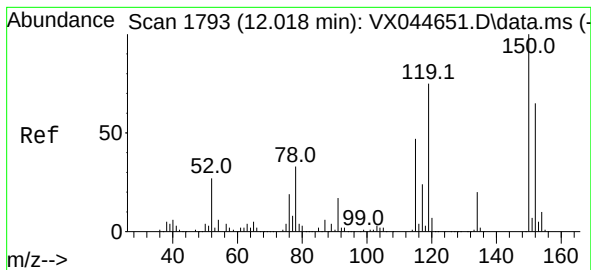
Ion Ratio Lower Upper

104 100

78 41.1 43.0 64.6#

103 45.8 43.4 65.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX044809.D

Acq: 03 Feb 2025 12:41

Instrument :

MSVOA_X

ClientSampleId :

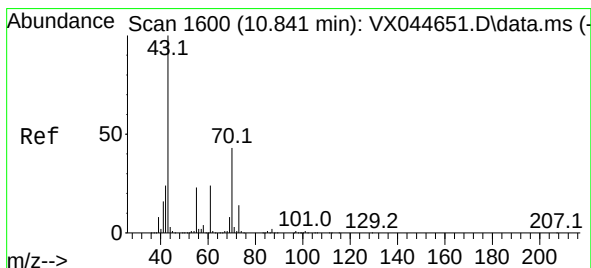
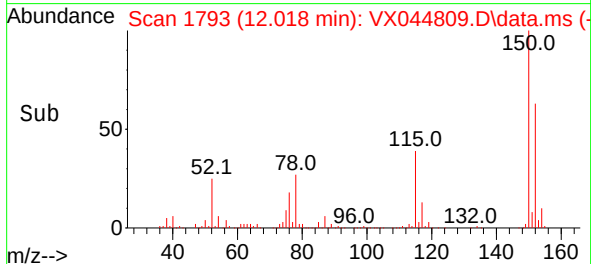
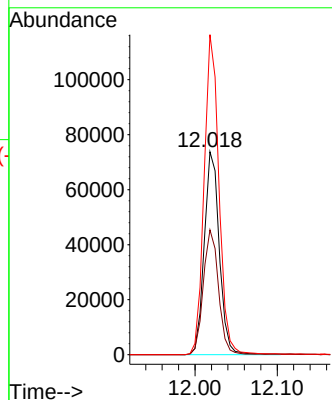
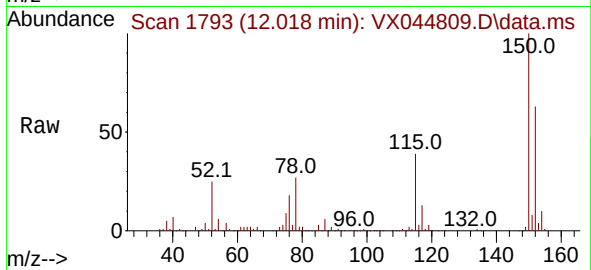
Tgt Ion:152 Resp: 93786

Ion Ratio Lower Upper

152 100

115 62.3 43.8 131.4

150 156.0 0.0 347.8



#74

N-ethyl acetate

Concen: 0.300 ug/l

RT: 10.811 min Scan# 1595

Delta R.T. -0.030 min

Lab File: VX044809.D

Acq: 03 Feb 2025 12:41

Tgt Ion: 43 Resp: 1132

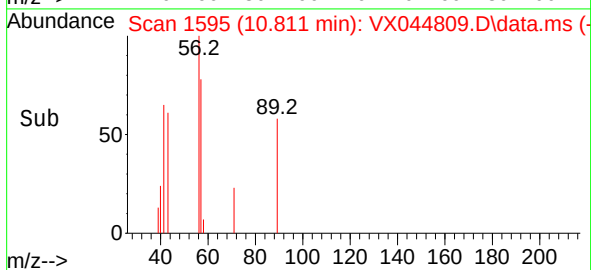
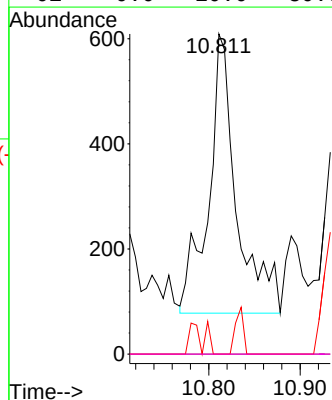
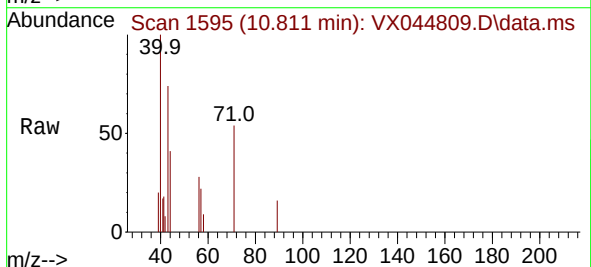
Ion Ratio Lower Upper

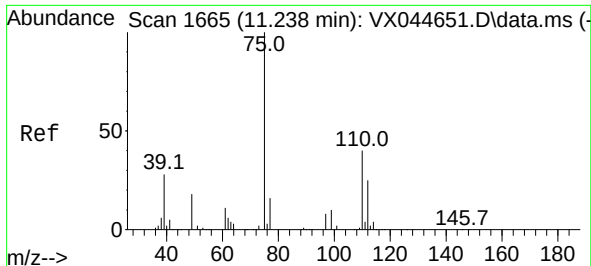
43 100

70 0.0 35.2 52.8#

55 0.0 19.0 28.4#

61 0.0 20.0 30.0#





#76

1,2,3-Trichloropropane

Concen: 22.476 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.158 min

Lab File: VX044809.D

Acq: 03 Feb 2025 12:41

Instrument :

MSVOA_X

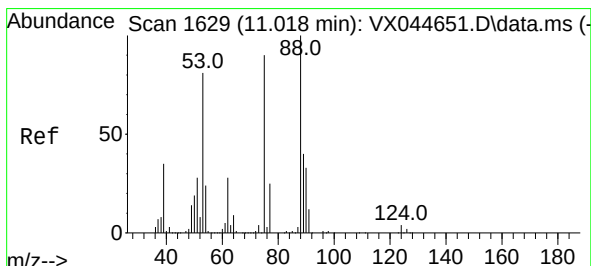
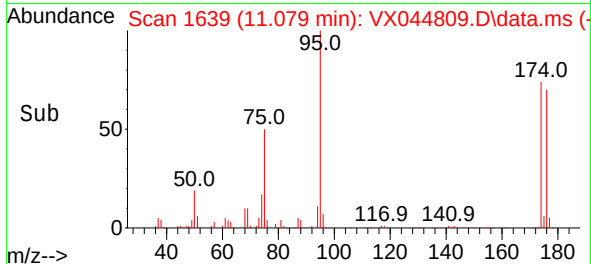
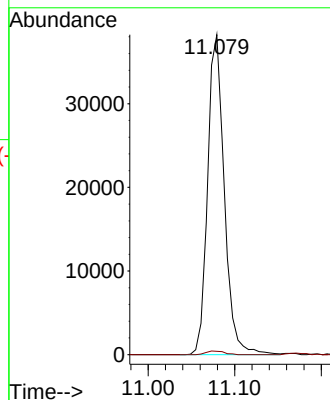
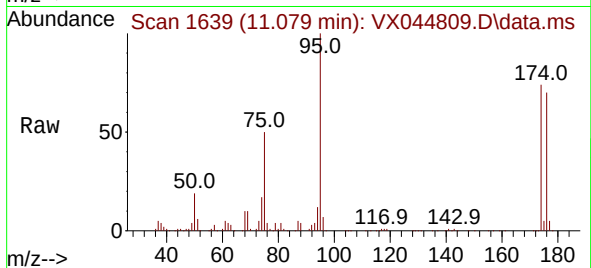
ClientSampleId :

Tgt Ion: 75 Resp: 51156

Ion Ratio Lower Upper

75 100

77 1.3 23.4 70.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 51.399 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX044809.D

Acq: 03 Feb 2025 12:41

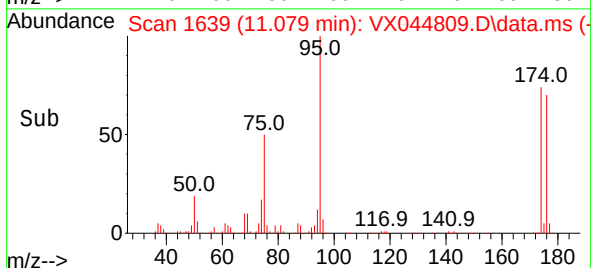
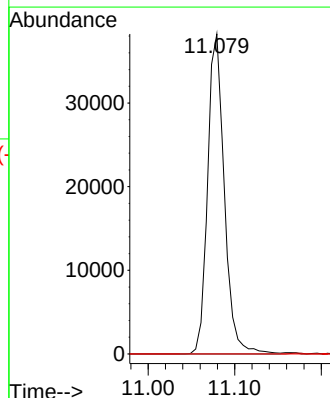
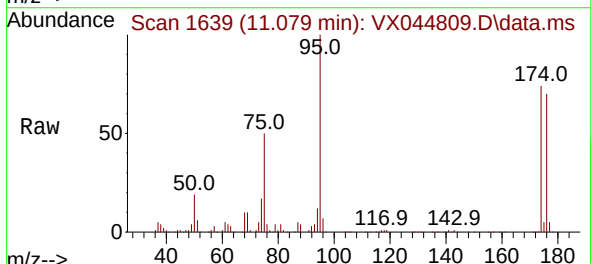
Tgt Ion: 75 Resp: 51156

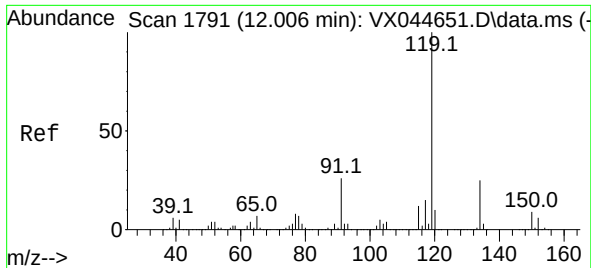
Ion Ratio Lower Upper

75 100

53 0.0 74.3 111.5#

89 0.0 37.4 56.0#

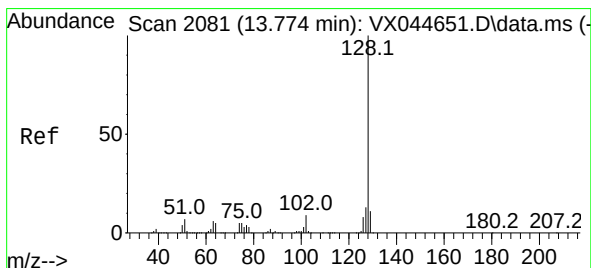
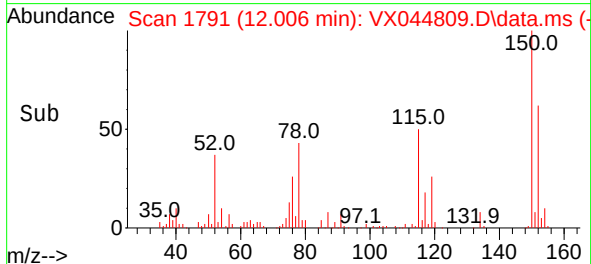
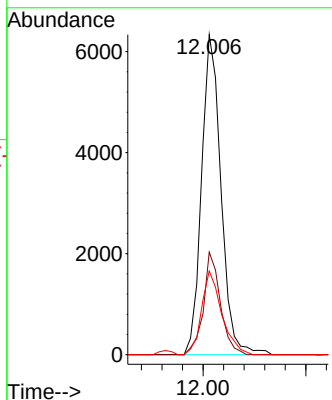
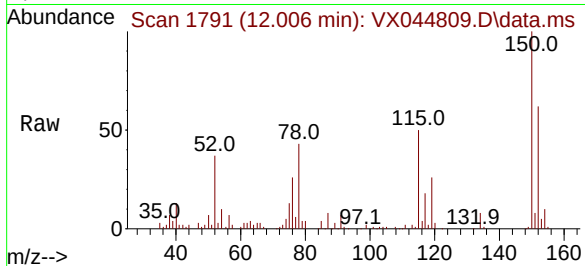




#86
p-Isopropyltoluene
Concen: 1.335 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044809.D
Acq: 03 Feb 2025 12:41

Instrument :
MSVOA_X
ClientSampleId :

Tgt Ion:119 Resp: 8328
Ion Ratio Lower Upper
119 100
134 28.0 12.8 38.4
91 27.2 12.7 38.1



#95
Naphthalene
Concen: 0.302 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.006 min
Lab File: VX044809.D
Acq: 03 Feb 2025 12:41

Tgt Ion:128 Resp: 2222
Ion Ratio Lower Upper
128 100
127 10.7 10.3 15.5
129 7.0 8.7 13.1#

