

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX020325\
 Data File : VX044824.D
 Acq On : 03 Feb 2025 18:50
 Operator : JC/MD
 Sample : Q1239-08
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Feb 04 02:13:34 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)

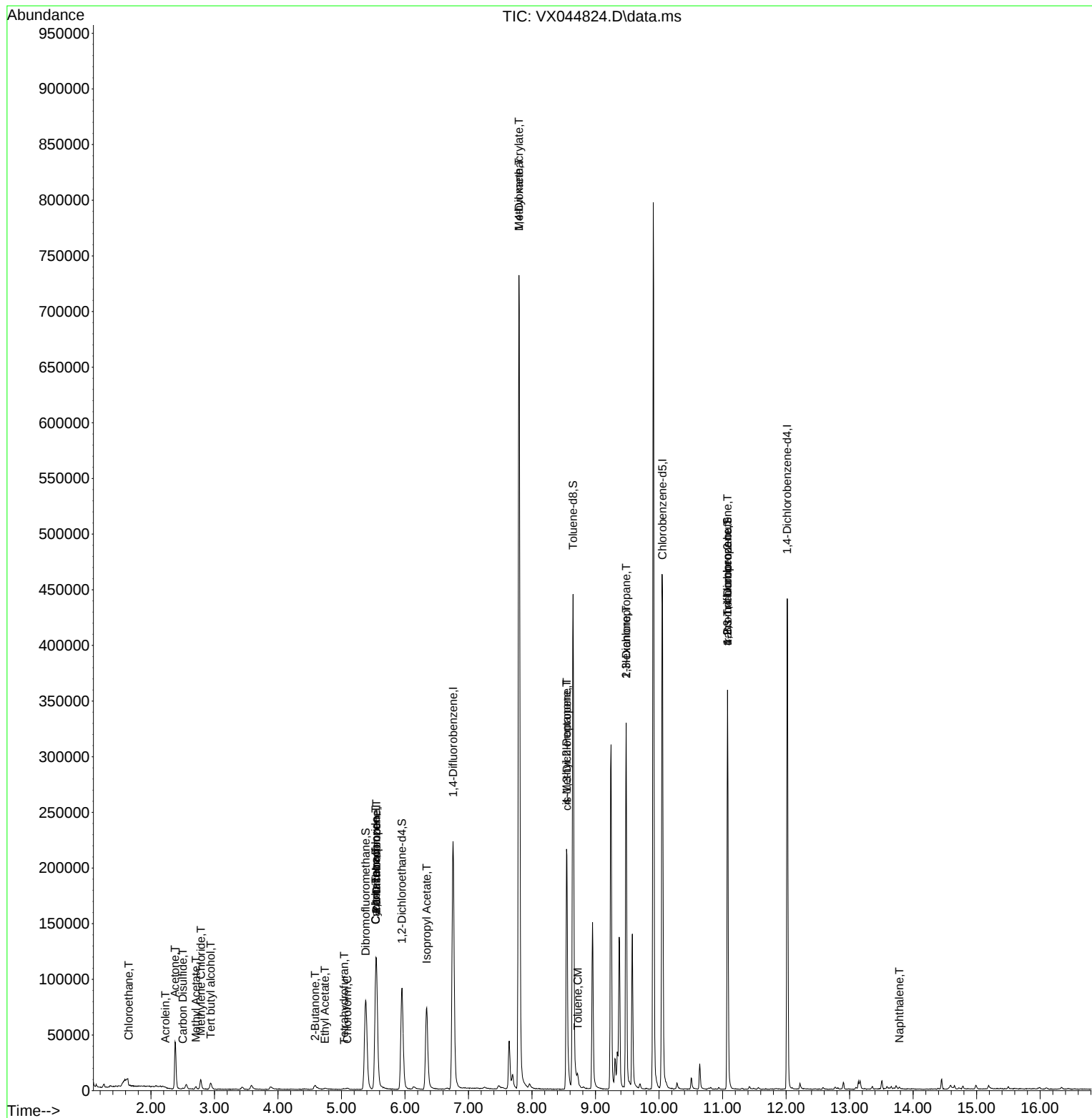
Internal Standards						
1) Pentafluorobenzene	5.550	168	115647	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	236456	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	211901	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	89642	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	83855	48.038	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.080%		
35) Dibromofluoromethane	5.379	113	73760	49.102	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	98.200%		
50) Toluene-d8	8.647	98	281769	53.796	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	107.600%		
62) 4-Bromofluorobenzene	11.079	95	96719	49.534	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	99.060%		
Target Compounds						
					Qvalue	
6) Chloroethane	1.648	64	95	0.312	ug/l #	41
11) Tert butyl alcohol	2.940	59	3569	9.171	ug/l #	85
13) Acrolein	2.227	56	94	0.513	ug/l #	15
16) Acetone	2.380	43	44122	63.886	ug/l	94
17) Carbon Disulfide	2.501	76	1112	0.301	ug/l	99
18) Methyl Acetate	2.709	43	2854	1.339	ug/l #	89
20) Methylene Chloride	2.788	84	3940	2.450	ug/l	92
25) 2-Butanone	4.586	43	5494	5.350	ug/l	94
29) Tetrahydrofuran	5.044	42	371	0.560	ug/l #	72
30) Chloroform	5.092	83	1184	0.432	ug/l	93
31) Cyclohexane	5.537	56	2835	1.290	ug/l #	13
36) 1,1-Dichloropropene	5.550	75	9542	4.563	ug/l #	49
37) Ethyl Acetate	4.739	43	1819	0.817	ug/l #	78
38) Carbon Tetrachloride	5.537	117	12335	5.244	ug/l #	15
43) Isopropyl Acetate	6.342	43	106721	26.052	ug/l	99
48) Methyl methacrylate	7.793	41	62350	32.790	ug/l #	42
49) 1,4-Dioxane	7.793	88	41	1.033	ug/l #	1
51) 4-Methyl-2-Pentanone	8.543	43	80614	35.610	ug/l #	50
52) Toluene	8.720	92	2776	0.700	ug/l	93
54) cis-1,3-Dichloropropene	8.549	75	38082	13.350	ug/l #	58
57) 1,3-Dichloropropane	9.482	76	3028	1.108	ug/l #	42
59) 2-Hexanone	9.482	43	40571	24.360	ug/l #	51
76) 1,2,3-Trichloropropane	11.079	75	48547	22.316	ug/l #	31
81) trans-1,4-Dichloro-2-b...	11.079	75	48547	51.032	ug/l #	12
95) Naphthalene	13.786	128	1446	0.206	ug/l #	91

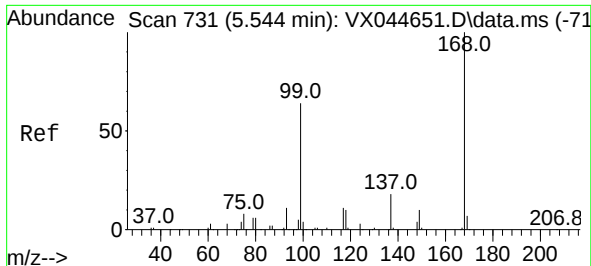
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

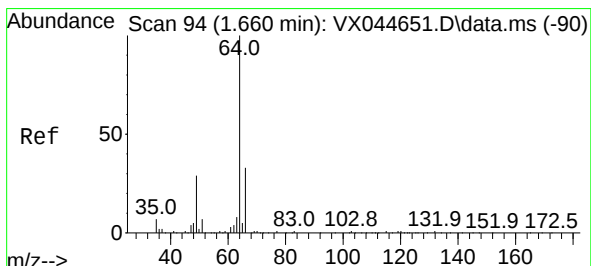
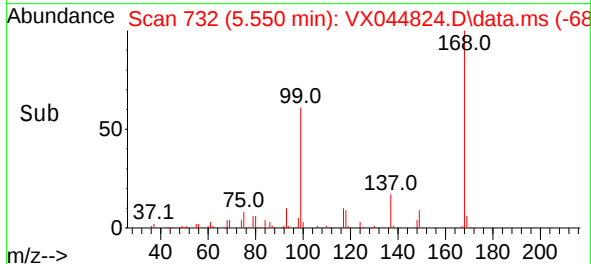
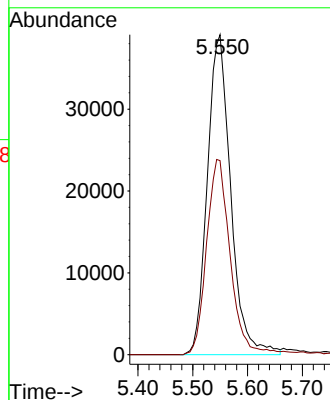
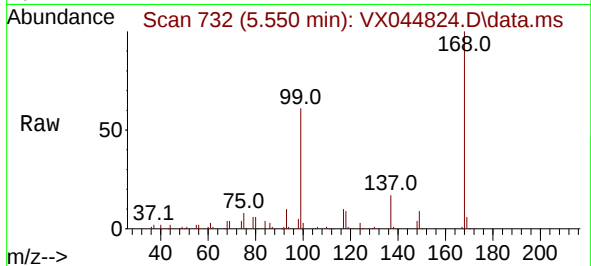




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX044824.D
Acq: 03 Feb 2025 18:50

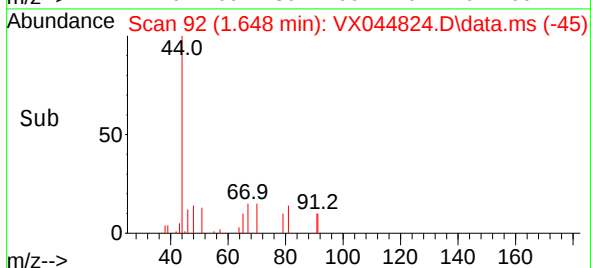
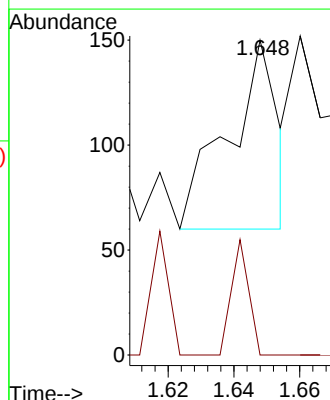
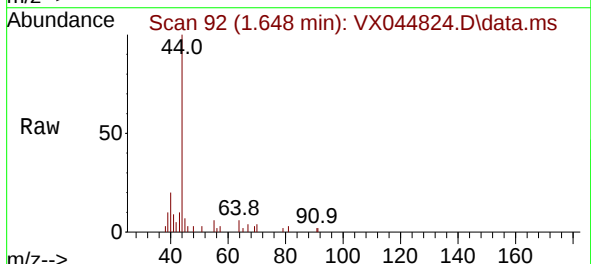
Instrument :
MSVOA_X
ClientSampleId :

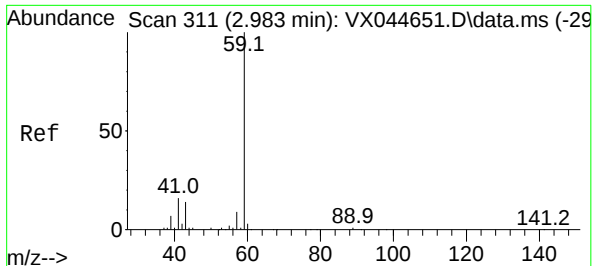
Tgt Ion:168 Resp: 115647
Ion Ratio Lower Upper
168 100
99 60.7 51.1 76.7



#6
Chloroethane
Concen: 0.312 ug/l
RT: 1.648 min Scan# 92
Delta R.T. -0.012 min
Lab File: VX044824.D
Acq: 03 Feb 2025 18:50

Tgt Ion: 64 Resp: 95
Ion Ratio Lower Upper
64 100
66 0.0 26.6 39.8#





#11

Tert butyl alcohol

Concen: 9.171 ug/l

RT: 2.940 min Scan# 304

Delta R.T. -0.043 min

Lab File: VX044824.D

Acq: 03 Feb 2025 18:50

Instrument :

MSVOA_X

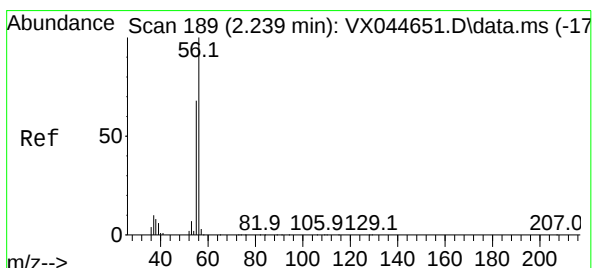
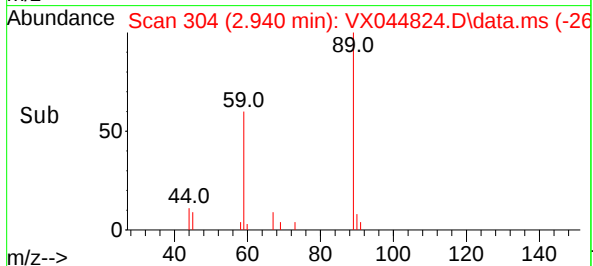
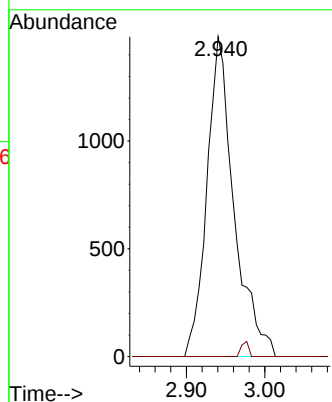
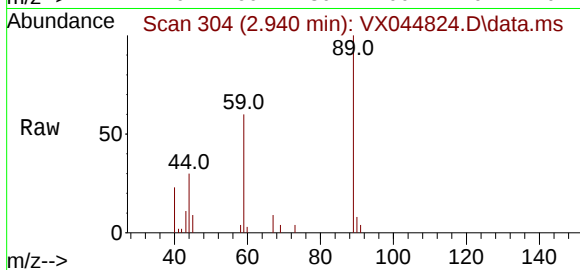
ClientSampleId :

Tgt Ion: 59 Resp: 3569

Ion Ratio Lower Upper

59 100

57 0.0 3.9 5.9#



#13

Acrolein

Concen: 0.513 ug/l

RT: 2.227 min Scan# 187

Delta R.T. -0.012 min

Lab File: VX044824.D

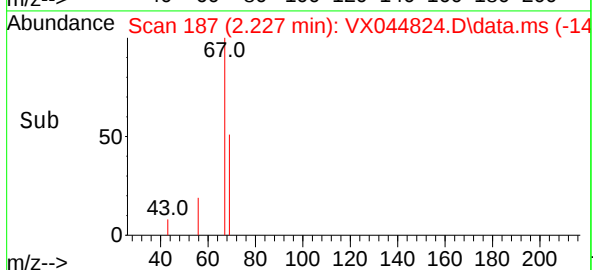
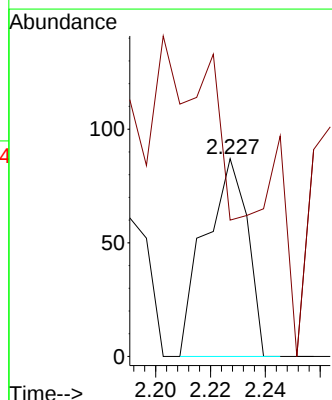
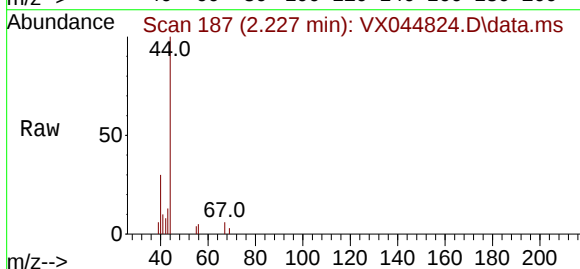
Acq: 03 Feb 2025 18:50

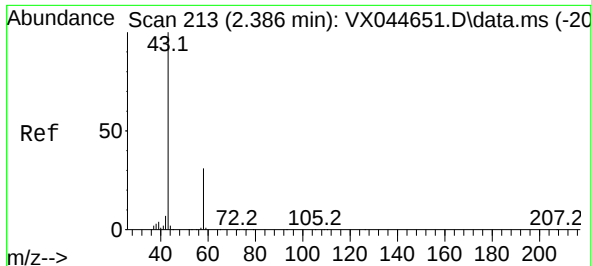
Tgt Ion: 56 Resp: 94

Ion Ratio Lower Upper

56 100

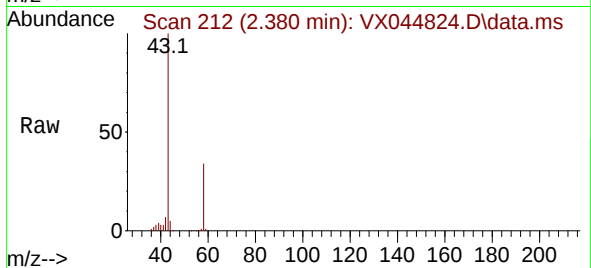
55 0.0 55.1 82.7#



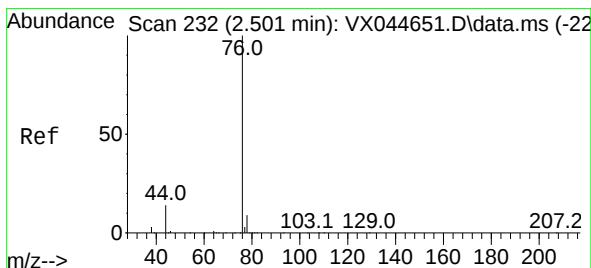
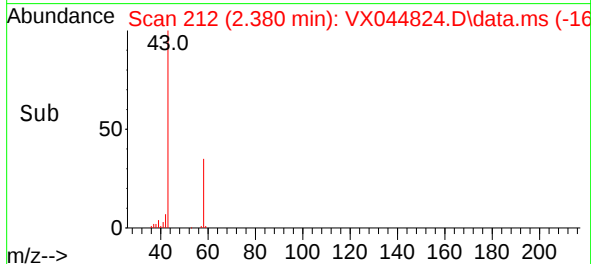
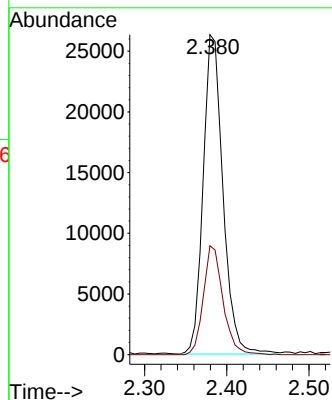


#16
Acetone
Concen: 63.886 ug/l
RT: 2.380 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044824.D
Acq: 03 Feb 2025 18:50

Instrument :
MSVOA_X
ClientSampleId :

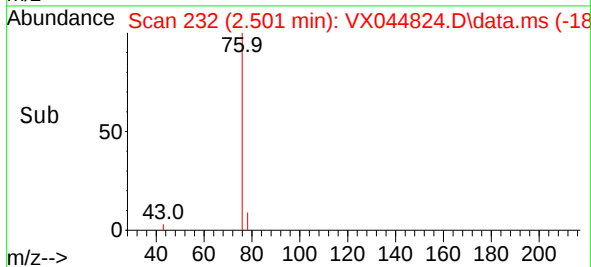
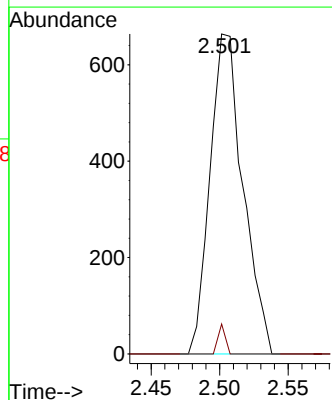
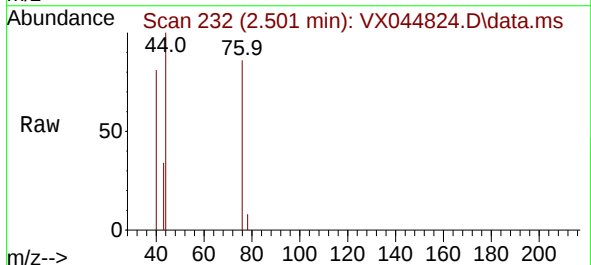


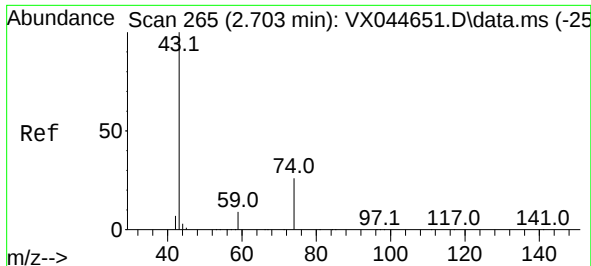
Tgt Ion: 43 Resp: 44122
Ion Ratio Lower Upper
43 100
58 34.1 24.6 37.0



#17
Carbon Disulfide
Concen: 0.301 ug/l
RT: 2.501 min Scan# 232
Delta R.T. 0.000 min
Lab File: VX044824.D
Acq: 03 Feb 2025 18:50

Tgt Ion: 76 Resp: 1112
Ion Ratio Lower Upper
76 100
78 9.3 7.1 10.7





#18

Methyl Acetate

Concen: 1.339 ug/l

RT: 2.709 min Scan# 2

Delta R.T. 0.006 min

Lab File: VX044824.D

Acq: 03 Feb 2025 18:50

Instrument :

MSVOA_X

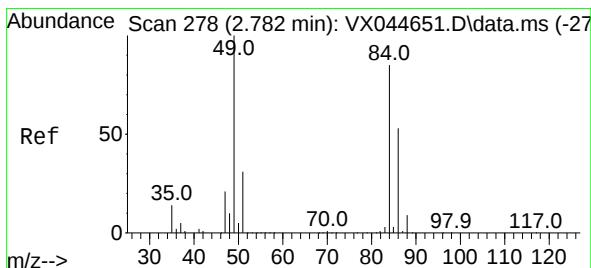
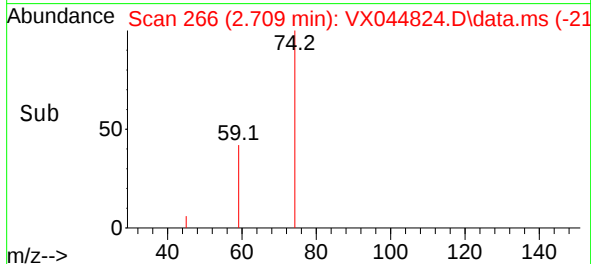
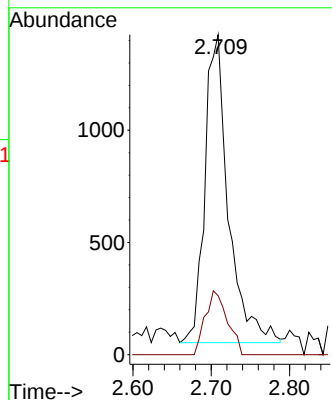
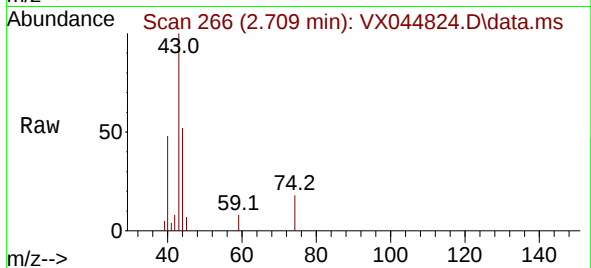
ClientSampleId :

Tgt Ion: 43 Resp: 2854

Ion Ratio Lower Upper

43 100

74 19.4 19.8 29.8#



#20

Methylene Chloride

Concen: 2.450 ug/l

RT: 2.788 min Scan# 279

Delta R.T. 0.006 min

Lab File: VX044824.D

Acq: 03 Feb 2025 18:50

Tgt Ion: 84 Resp: 3940

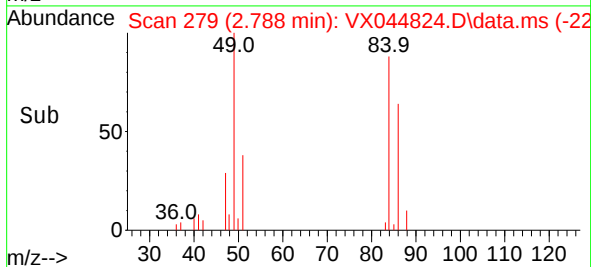
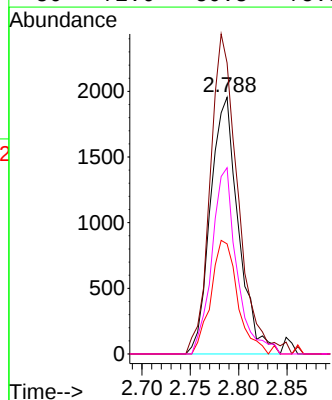
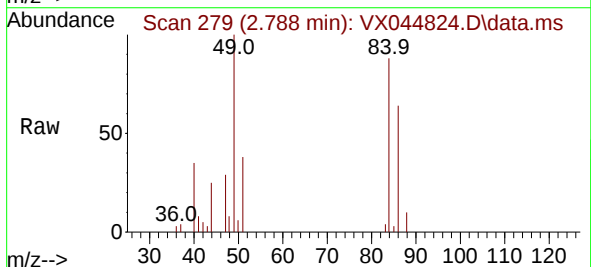
Ion Ratio Lower Upper

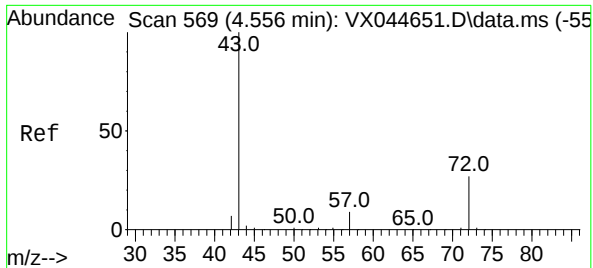
84 100

49 113.4 94.2 141.4

51 42.9 28.8 43.2

86 72.6 50.3 75.5





#25

2-Butanone

Concen: 5.350 ug/l

RT: 4.586 min Scan# 5

Delta R.T. 0.030 min

Lab File: VX044824.D

Acq: 03 Feb 2025 18:50

Instrument :

MSVOA_X

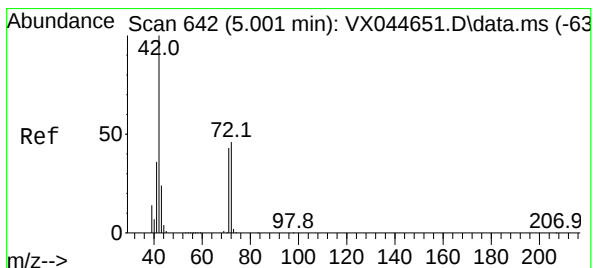
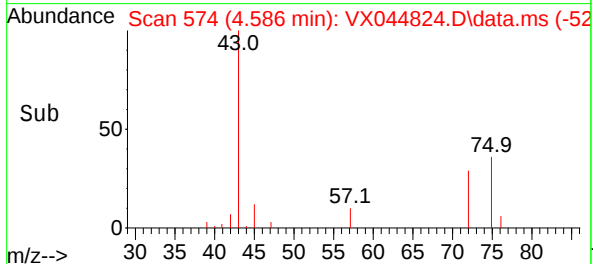
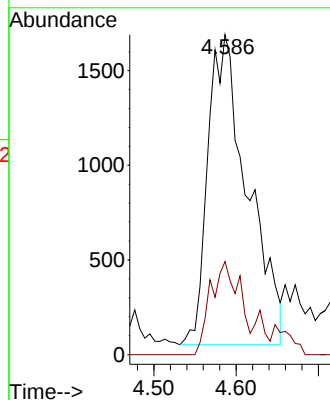
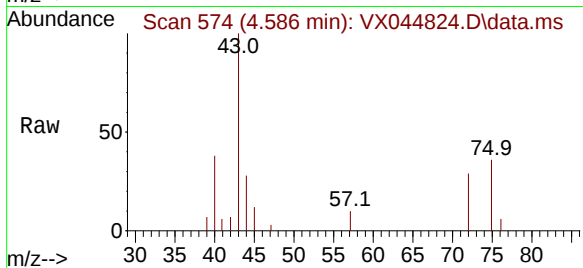
ClientSampleId :

Tgt Ion: 43 Resp: 5494

Ion Ratio Lower Upper

43 100

72 30.0 21.7 32.5



#29

Tetrahydrofuran

Concen: 0.560 ug/l

RT: 5.044 min Scan# 649

Delta R.T. 0.043 min

Lab File: VX044824.D

Acq: 03 Feb 2025 18:50

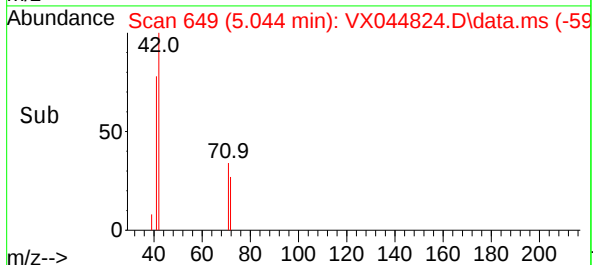
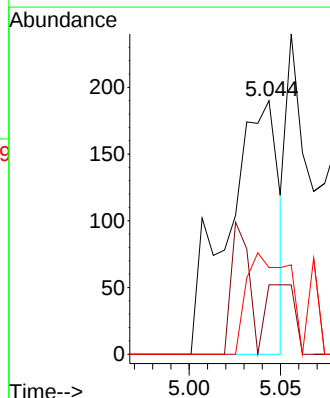
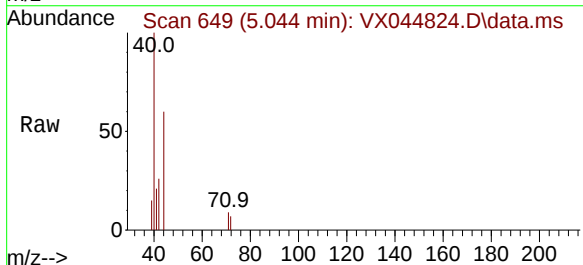
Tgt Ion: 42 Resp: 371

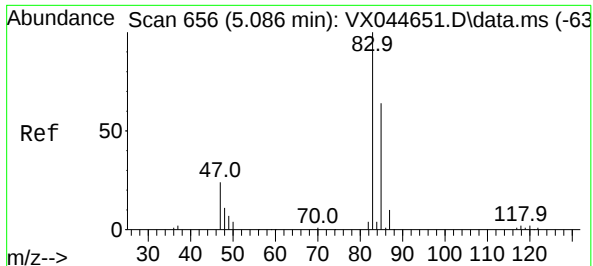
Ion Ratio Lower Upper

42 100

72 15.4 38.2 57.4#

71 39.6 35.3 52.9





#30

Chloroform

Concen: 0.432 ug/l

RT: 5.092 min Scan# 61

Delta R.T. 0.006 min

Lab File: VX044824.D

Acq: 03 Feb 2025 18:50

Instrument :

MSVOA_X

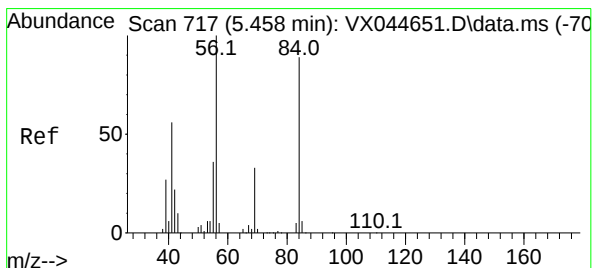
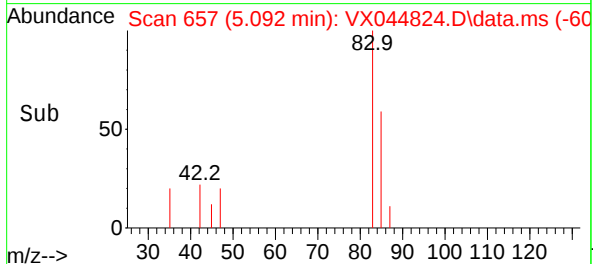
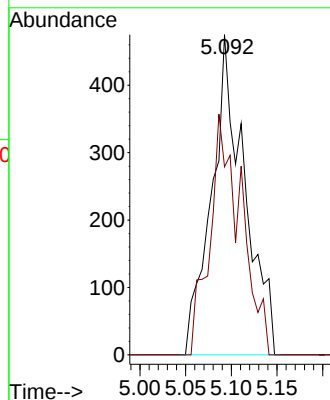
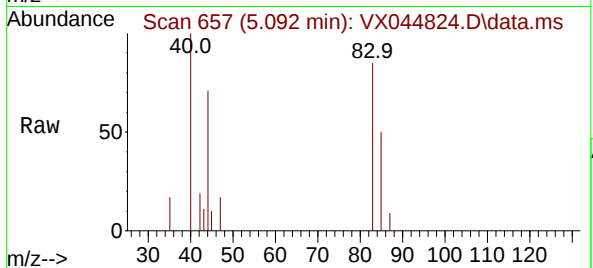
ClientSampleId :

Tgt Ion: 83 Resp: 1184

Ion Ratio Lower Upper

83 100

85 58.7 51.2 76.8



#31

Cyclohexane

Concen: 1.290 ug/l

RT: 5.537 min Scan# 730

Delta R.T. 0.079 min

Lab File: VX044824.D

Acq: 03 Feb 2025 18:50

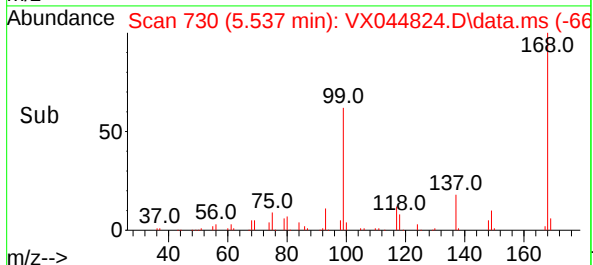
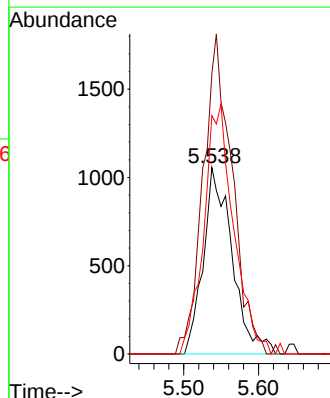
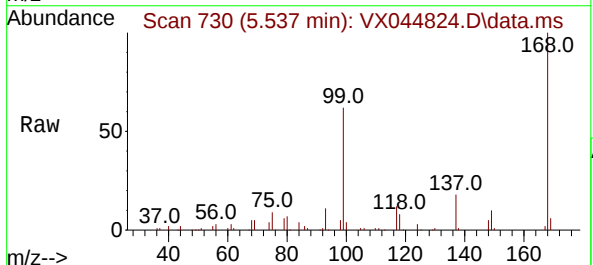
Tgt Ion: 56 Resp: 2835

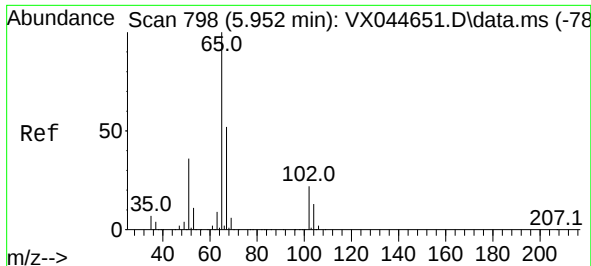
Ion Ratio Lower Upper

56 100

69 150.4 26.8 40.2#

84 127.9 71.0 106.4#

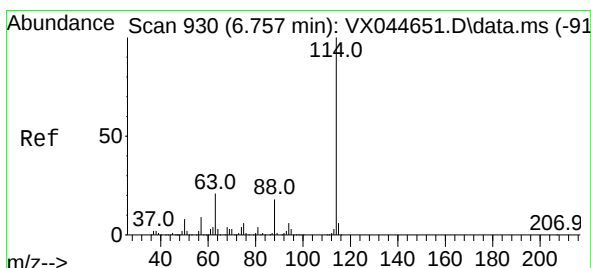
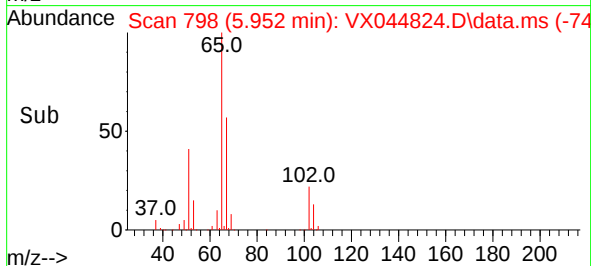
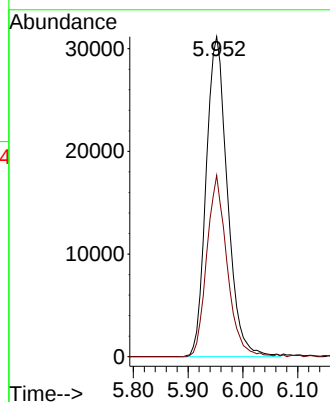
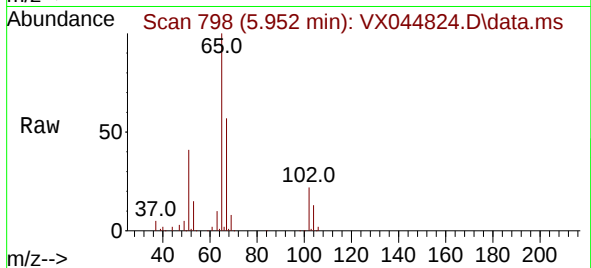




#33
1,2-Dichloroethane-d4
Concen: 48.038 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX044824.D
Acq: 03 Feb 2025 18:50

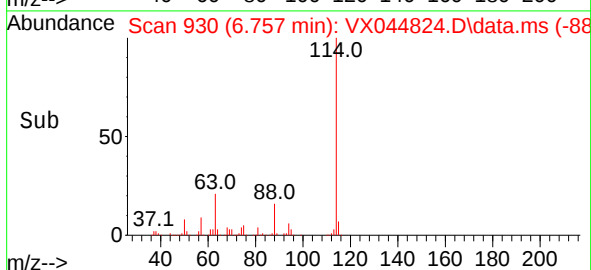
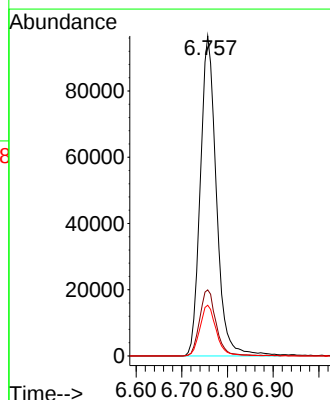
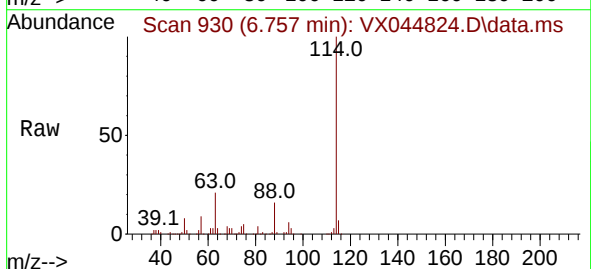
Instrument :
MSVOA_X
ClientSampleId :

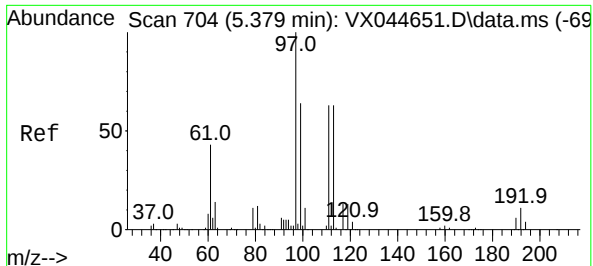
Tgt Ion: 65 Resp: 83855
Ion Ratio Lower Upper
65 100
67 54.2 0.0 103.4



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044824.D
Acq: 03 Feb 2025 18:50

Tgt Ion: 114 Resp: 236456
Ion Ratio Lower Upper
114 100
63 20.7 0.0 43.0
88 15.9 0.0 35.4





#35

Dibromofluoromethane

Concen: 49.102 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

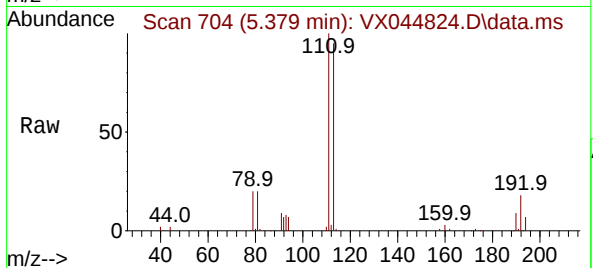
Lab File: VX044824.D

Acq: 03 Feb 2025 18:50

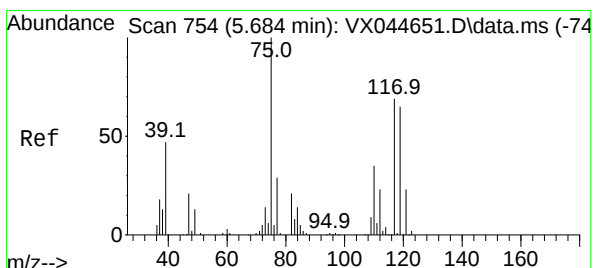
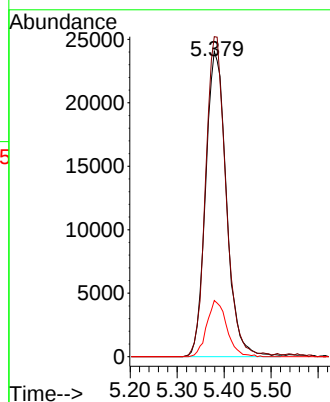
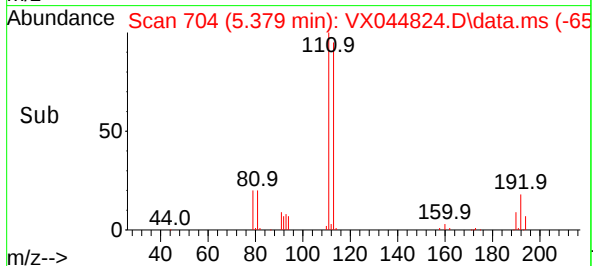
Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion:	113	Resp:	73760
Ion	Ratio	Lower	Upper
113	100		
111	101.8	81.6	122.4
192	17.7	14.4	21.6



#36

1,1-Dichloropropene

Concen: 4.563 ug/l

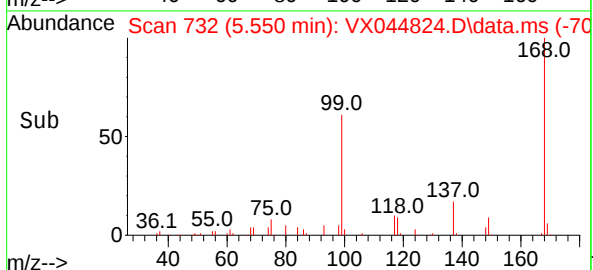
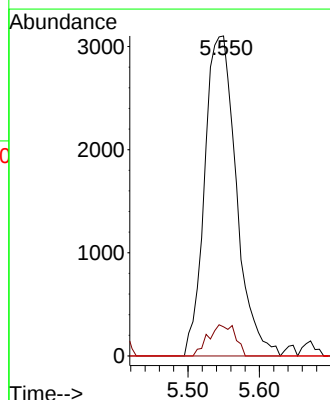
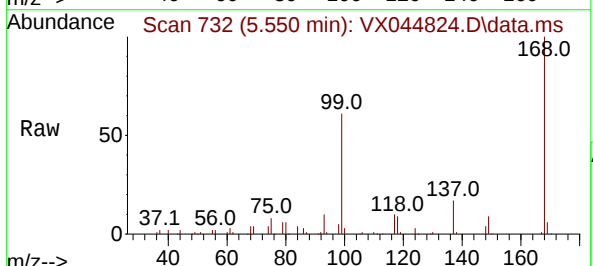
RT: 5.550 min Scan# 732

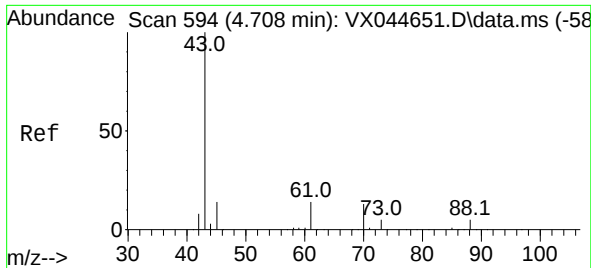
Delta R.T. -0.134 min

Lab File: VX044824.D

Acq: 03 Feb 2025 18:50

Tgt Ion:	75	Resp:	9542
Ion	Ratio	Lower	Upper
75	100		
110	8.3	17.9	53.8#
77	0.0	24.5	36.7#





#37

Ethyl Acetate

Concen: 0.817 ug/l

RT: 4.739 min Scan# 51

Delta R.T. 0.030 min

Lab File: VX044824.D

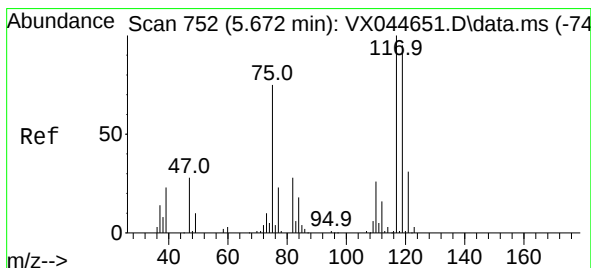
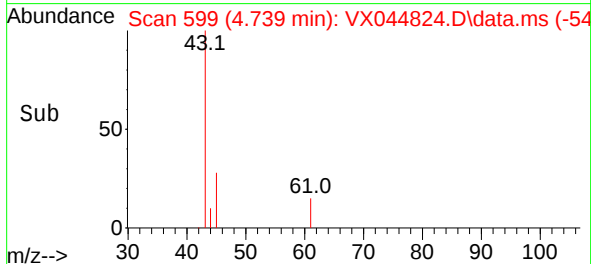
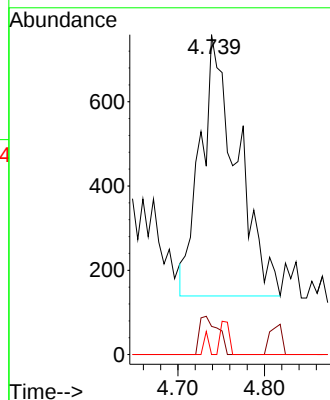
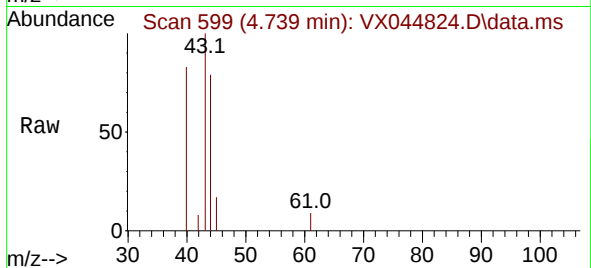
Acq: 03 Feb 2025 18:50

Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion: 43	Resp:	1819
Ion Ratio	Lower	Upper
43	100	
61	7.3	10.9 16.3#
70	1.1	10.1 15.1#



#38

Carbon Tetrachloride

Concen: 5.244 ug/l

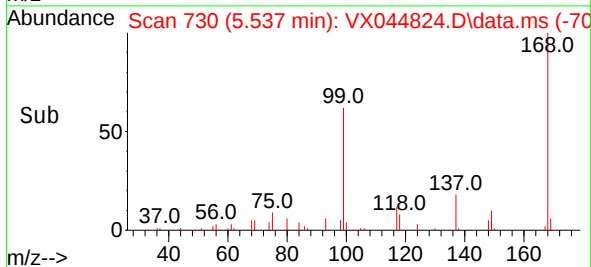
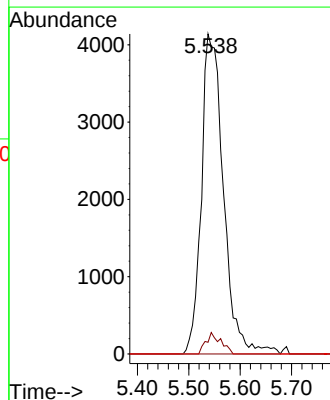
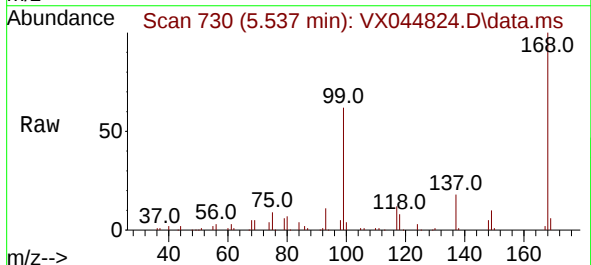
RT: 5.537 min Scan# 730

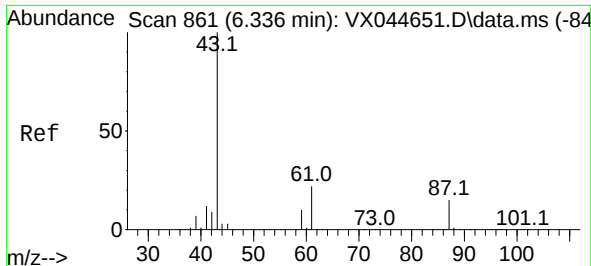
Delta R.T. -0.134 min

Lab File: VX044824.D

Acq: 03 Feb 2025 18:50

Tgt Ion: 117	Resp:	12335
Ion Ratio	Lower	Upper
117	100	
119	3.7	76.0 114.0#
121	0.0	24.6 36.8#

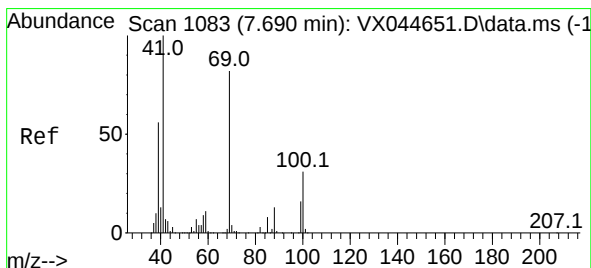
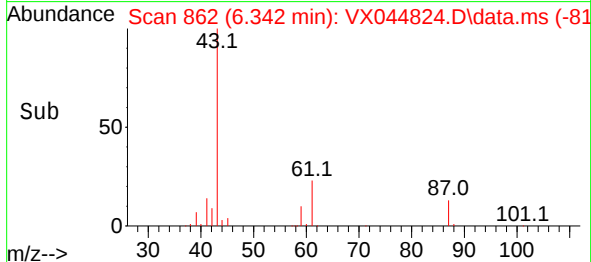
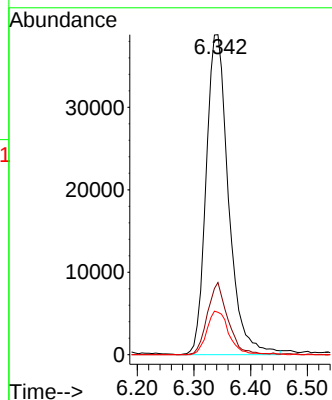
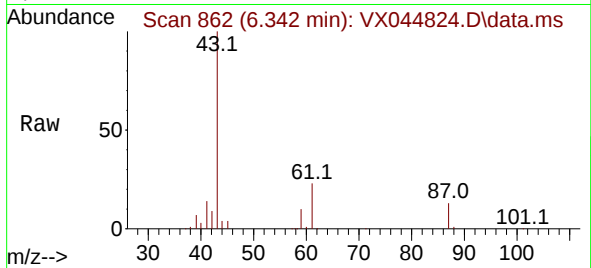




#43
Isopropyl Acetate
Concen: 26.052 ug/l
RT: 6.342 min Scan# 861
Delta R.T. 0.006 min
Lab File: VX044824.D
Acq: 03 Feb 2025 18:50

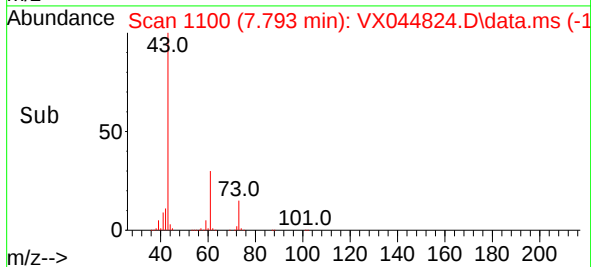
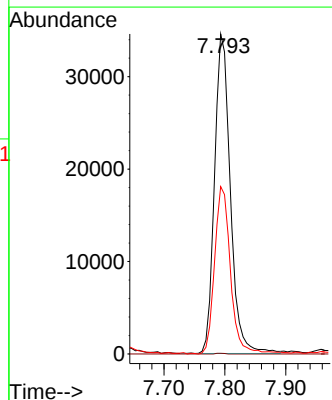
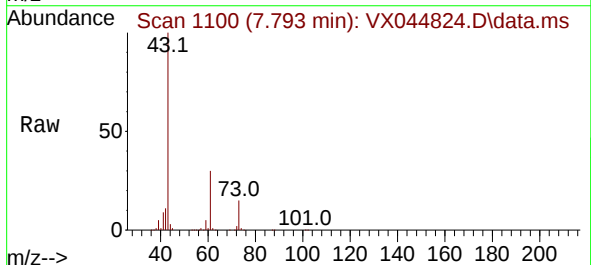
Instrument :
MSVOA_X
ClientSampleId :

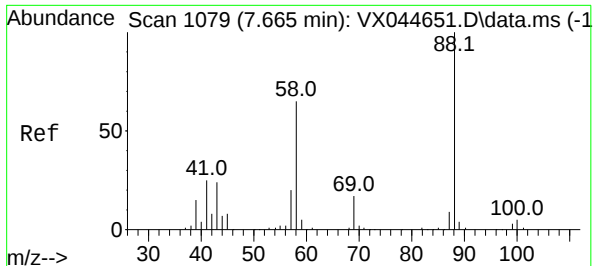
Tgt Ion: 43 Resp: 106721
Ion Ratio Lower Upper
43 100
61 20.5 16.6 24.8
87 13.3 11.0 16.6



#48
Methyl methacrylate
Concen: 32.790 ug/l
RT: 7.793 min Scan# 1100
Delta R.T. 0.104 min
Lab File: VX044824.D
Acq: 03 Feb 2025 18:50

Tgt Ion: 41 Resp: 62350
Ion Ratio Lower Upper
41 100
69 0.1 66.8 100.2#
39 52.1 47.4 71.0





#49

1,4-Dioxane

Concen: 1.033 ug/l

RT: 7.793 min Scan# 1100

Delta R.T. 0.128 min

Lab File: VX044824.D

Acq: 03 Feb 2025 18:50

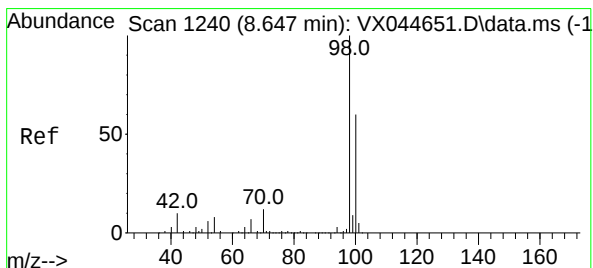
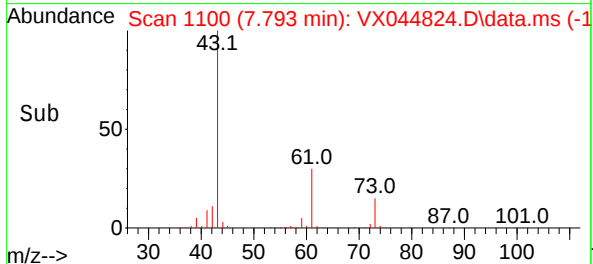
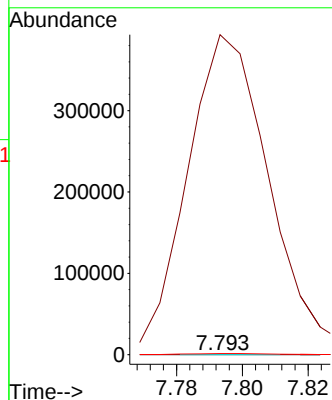
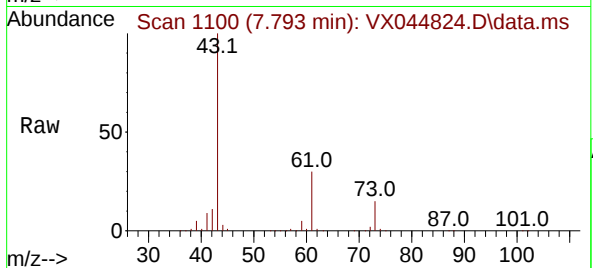
Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion: 88 Resp: 41

Ion	Ratio	Lower	Upper
88	100		
43	1719019.5	27.0	40.4#
58	6639.0	55.8	83.8#



#50

Toluene-d8

Concen: 53.796 ug/l

RT: 8.647 min Scan# 1240

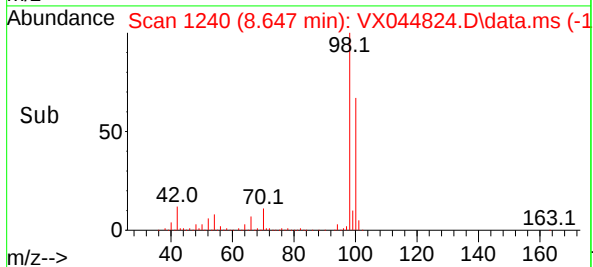
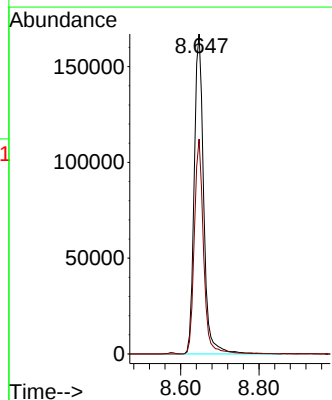
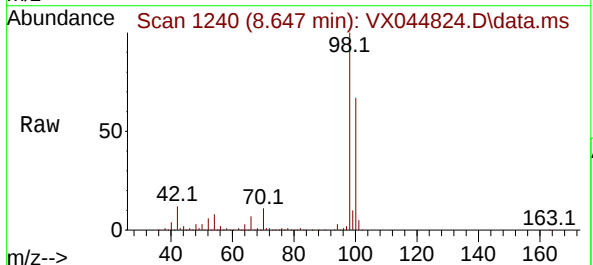
Delta R.T. 0.000 min

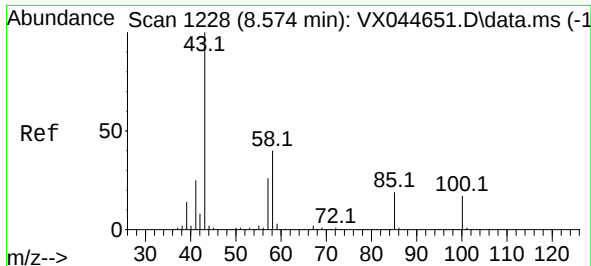
Lab File: VX044824.D

Acq: 03 Feb 2025 18:50

Tgt Ion: 98 Resp: 281769

Ion	Ratio	Lower	Upper
98	100		
100	65.4	53.2	79.8





#51

4-Methyl-2-Pentanone

Concen: 35.610 ug/l

RT: 8.543 min Scan# 1223

Delta R.T. -0.030 min

Lab File: VX044824.D

Acq: 03 Feb 2025 18:50

Instrument :

MSVOA_X

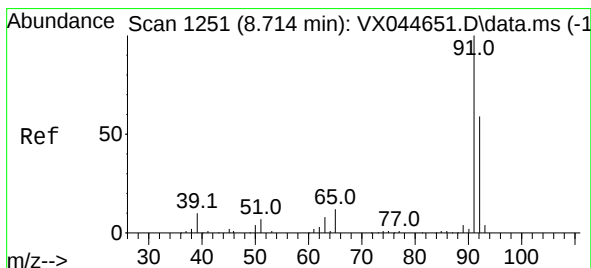
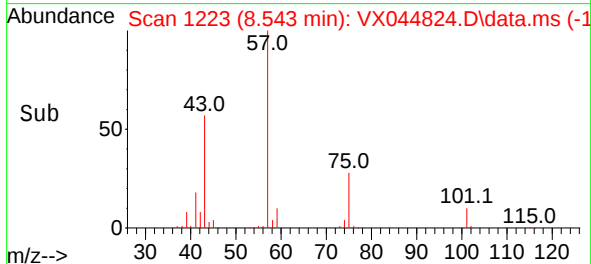
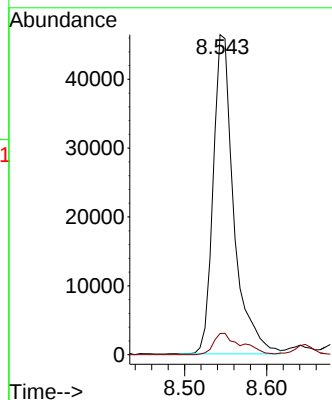
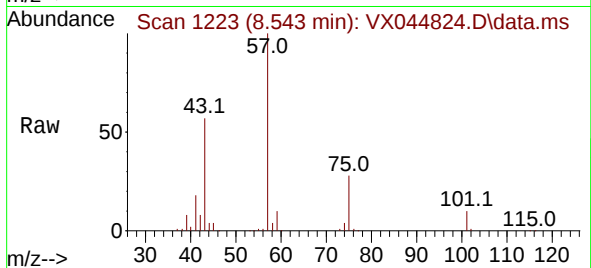
ClientSampleId :

Tgt Ion: 43 Resp: 80614

Ion Ratio Lower Upper

43 100

58 9.0 31.9 47.9#



#52

Toluene

Concen: 0.700 ug/l

RT: 8.720 min Scan# 1252

Delta R.T. 0.006 min

Lab File: VX044824.D

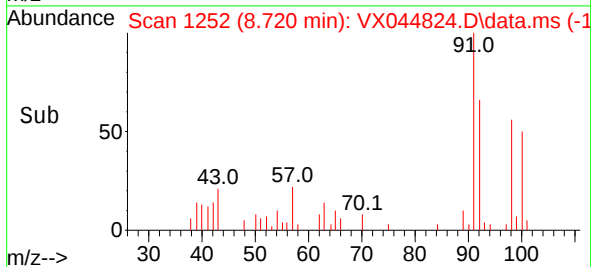
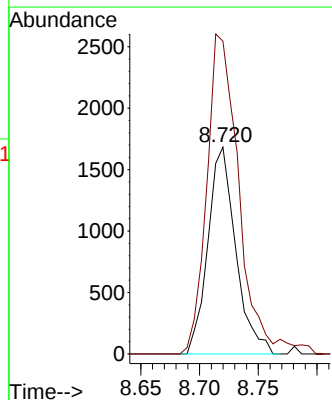
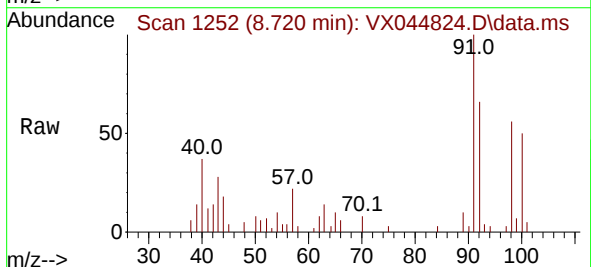
Acq: 03 Feb 2025 18:50

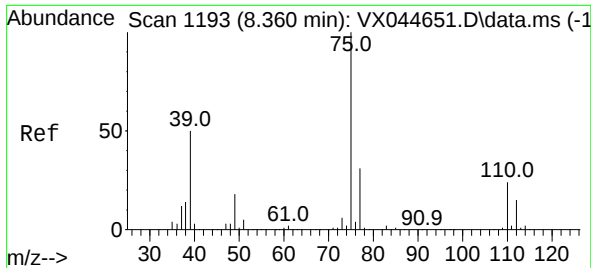
Tgt Ion: 92 Resp: 2776

Ion Ratio Lower Upper

92 100

91 179.1 135.7 203.5

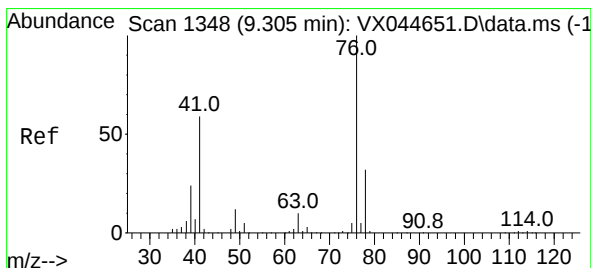
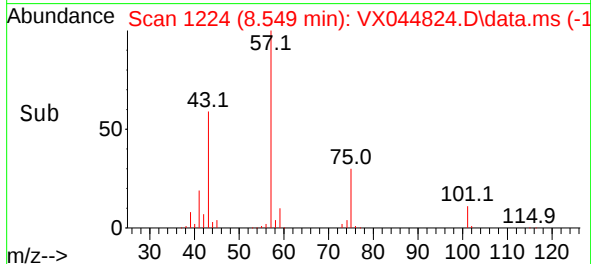
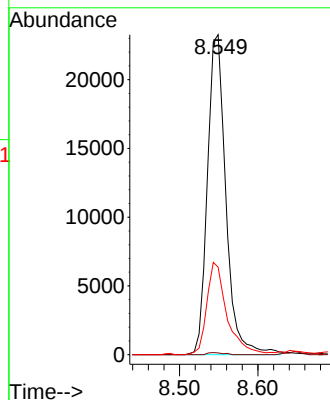
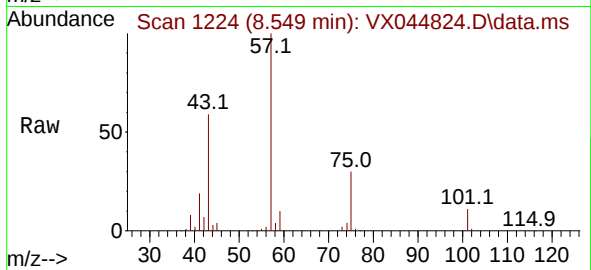




#54
 cis-1,3-Dichloropropene
 Concen: 13.350 ug/l
 RT: 8.549 min Scan# 1193
 Delta R.T. 0.189 min
 Lab File: VX044824.D
 Acq: 03 Feb 2025 18:50

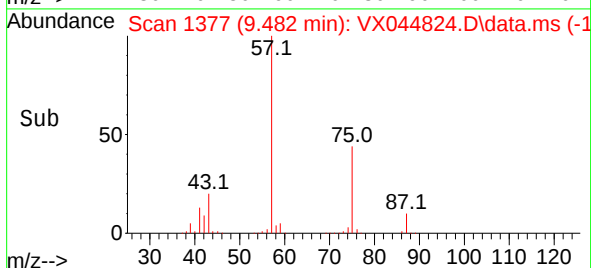
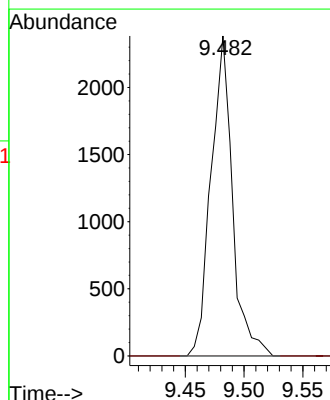
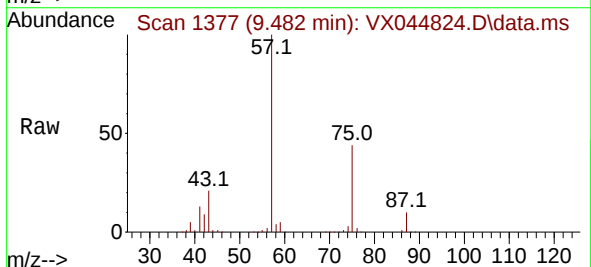
Instrument :
 MSVOA_X
 ClientSampleId :

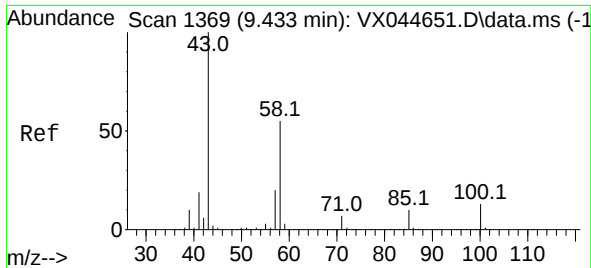
Tgt Ion: 75 Resp: 38082
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.1 37.7#
 39 27.3 40.3 60.5#



#57
 1,3-Dichloropropane
 Concen: 1.108 ug/l
 RT: 9.482 min Scan# 1377
 Delta R.T. 0.177 min
 Lab File: VX044824.D
 Acq: 03 Feb 2025 18:50

Tgt Ion: 76 Resp: 3028
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#

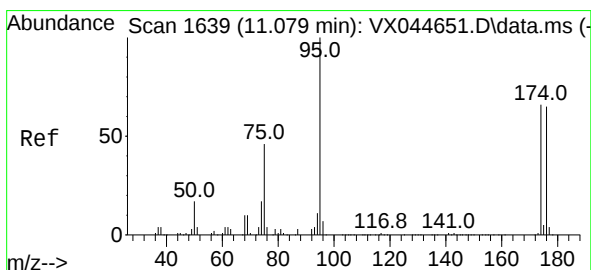
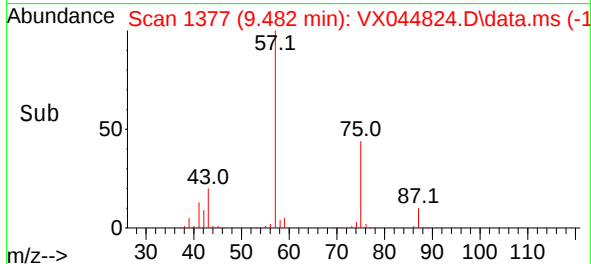
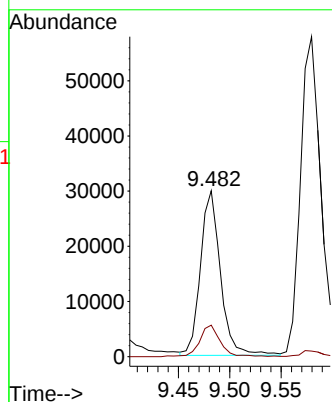
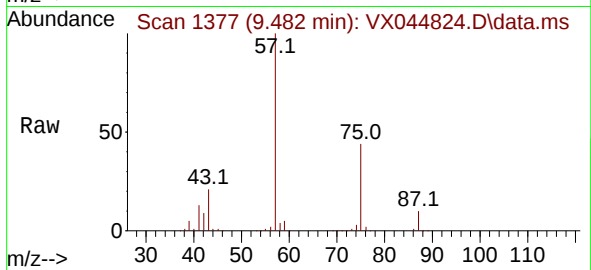




#59
2-Hexanone
Concen: 24.360 ug/l
RT: 9.482 min Scan# 1377
Delta R.T. 0.049 min
Lab File: VX044824.D
Acq: 03 Feb 2025 18:50

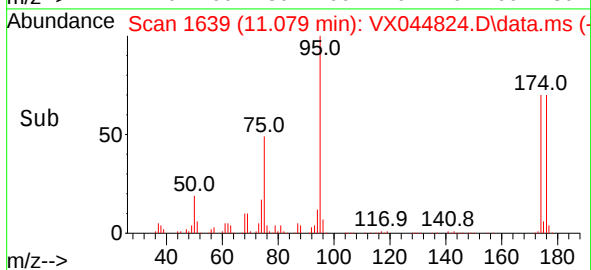
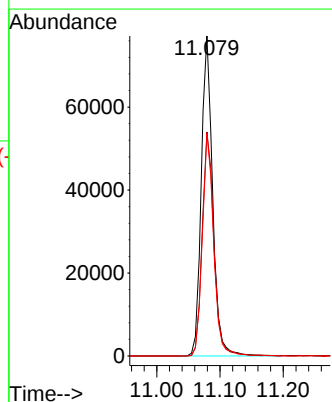
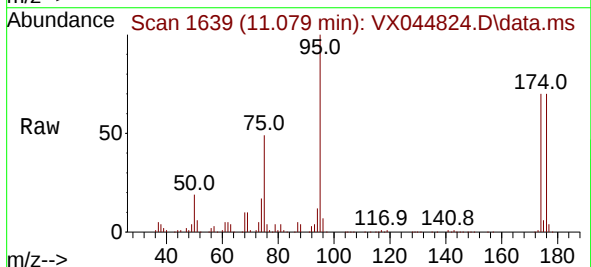
Instrument :
MSVOA_X
ClientSampleId :

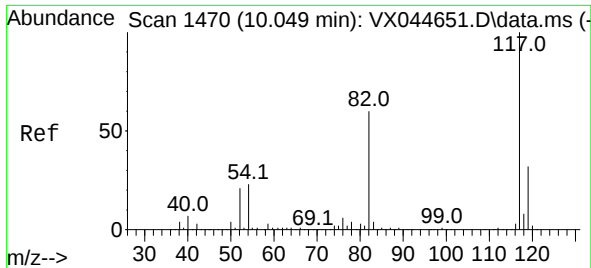
Tgt Ion: 43 Resp: 40571
Ion Ratio Lower Upper
43 100
58 20.0 27.8 83.3#



#62
4-Bromofluorobenzene
Concen: 49.534 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044824.D
Acq: 03 Feb 2025 18:50

Tgt Ion: 95 Resp: 96719
Ion Ratio Lower Upper
95 100
174 72.1 0.0 133.0
176 69.5 0.0 129.4

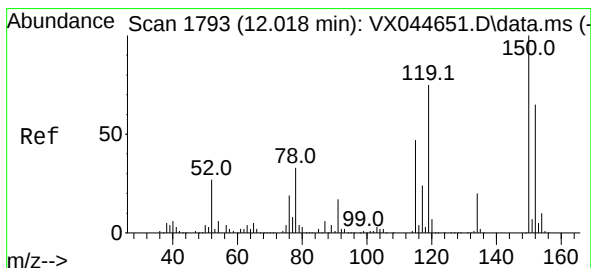
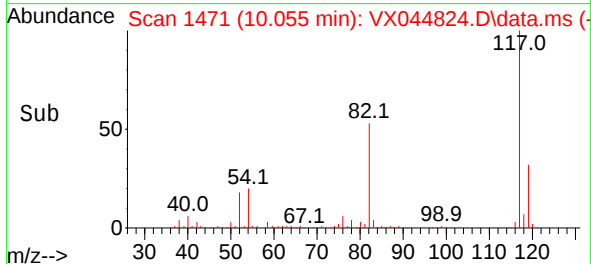
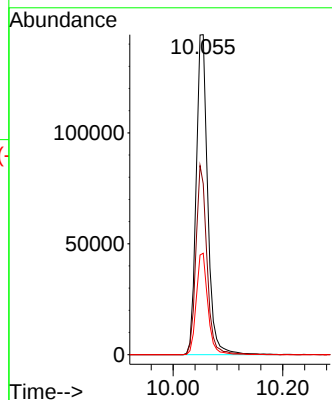
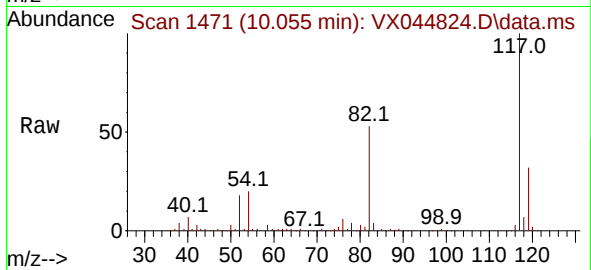




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1470
Delta R.T. 0.006 min
Lab File: VX044824.D
Acq: 03 Feb 2025 18:50

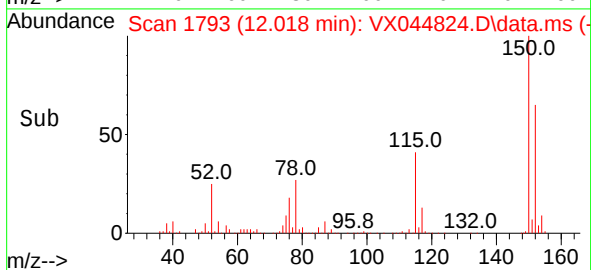
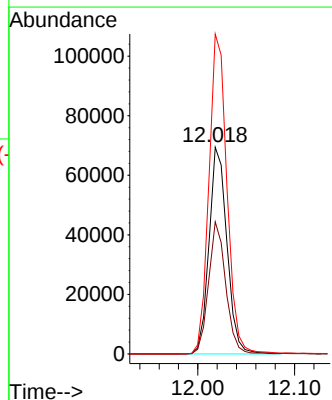
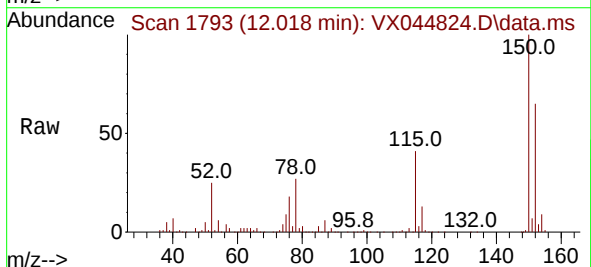
Instrument :
MSVOA_X
ClientSampleId :

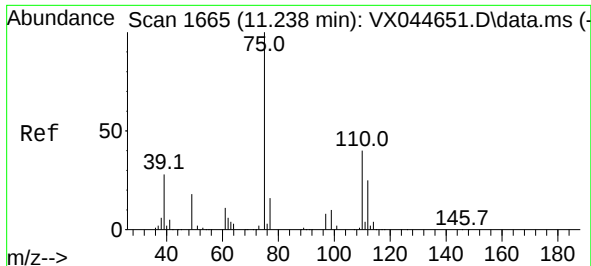
Tgt Ion:117 Resp: 211901
Ion Ratio Lower Upper
117 100
82 53.4 47.6 71.4
119 31.7 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044824.D
Acq: 03 Feb 2025 18:50

Tgt Ion:152 Resp: 89642
Ion Ratio Lower Upper
152 100
115 61.3 43.8 131.4
150 156.2 0.0 347.8





#76

1,2,3-Trichloropropane

Concen: 22.316 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.159 min

Lab File: VX044824.D

Acq: 03 Feb 2025 18:50

Instrument :

MSVOA_X

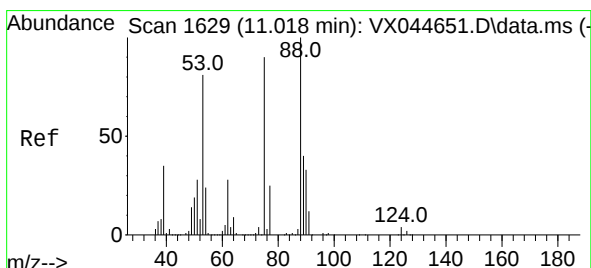
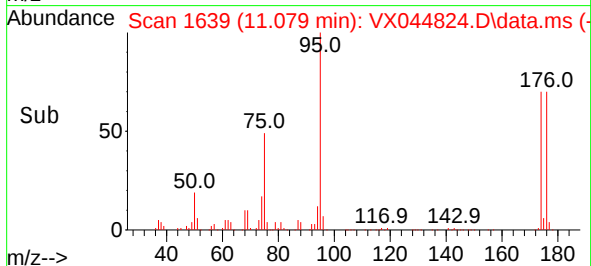
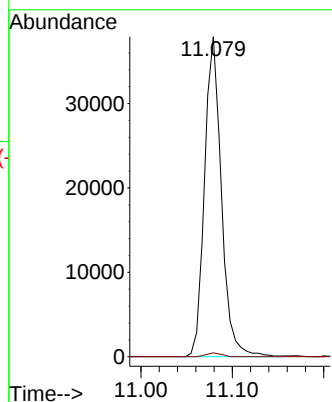
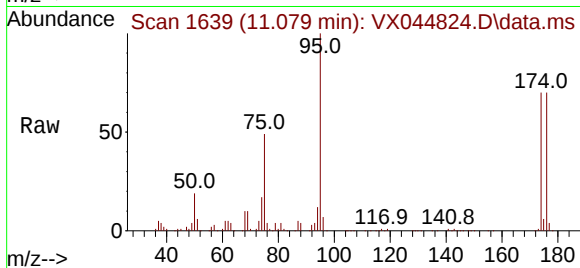
ClientSampleId :

Tgt Ion: 75 Resp: 48547

Ion Ratio Lower Upper

75 100

77 1.0 23.4 70.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 51.032 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX044824.D

Acq: 03 Feb 2025 18:50

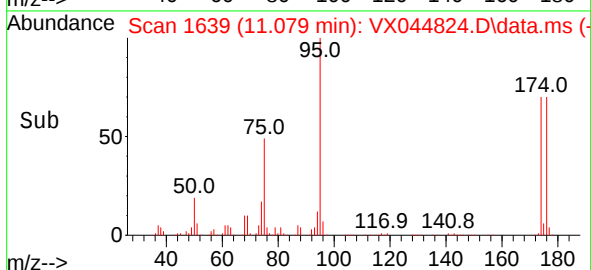
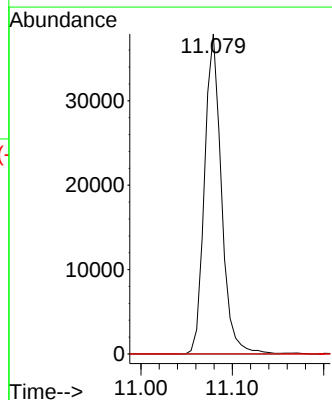
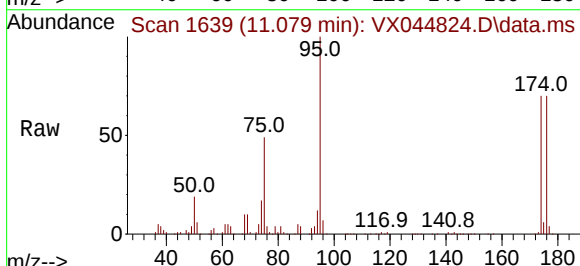
Tgt Ion: 75 Resp: 48547

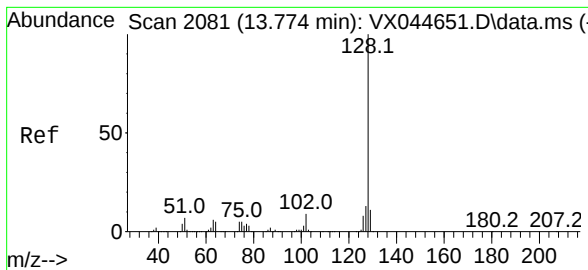
Ion Ratio Lower Upper

75 100

53 0.0 74.3 111.5#

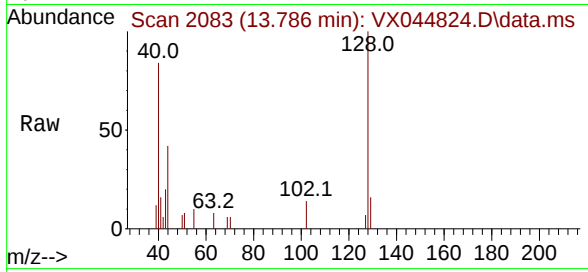
89 0.0 37.4 56.0#





#95
 Naphthalene
 Concen: 0.206 ug/l
 RT: 13.786 min Scan# 20
 Delta R.T. 0.012 min
 Lab File: VX044824.D
 Acq: 03 Feb 2025 18:50

Instrument :
 MSVOA_X
 ClientSampleId :



Tgt Ion:	128	Resp:	1446
Ion Ratio	Lower	Upper	
128	100		
127	8.6	10.3	15.5#
129	13.6	8.7	13.1#

