

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX020325\
 Data File : VX044825.D
 Acq On : 03 Feb 2025 19:14
 Operator : JC/MD
 Sample : Q1239-11
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Feb 04 02:13:58 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	106122	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	214275	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	191126	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	83336	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	77717	48.518	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	97.040%
35) Dibromofluoromethane	5.379	113	66134	48.583	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	97.160%
50) Toluene-d8	8.647	98	256981	54.142	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	108.280%
62) 4-Bromofluorobenzene	11.079	95	87896	49.675	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	99.360%

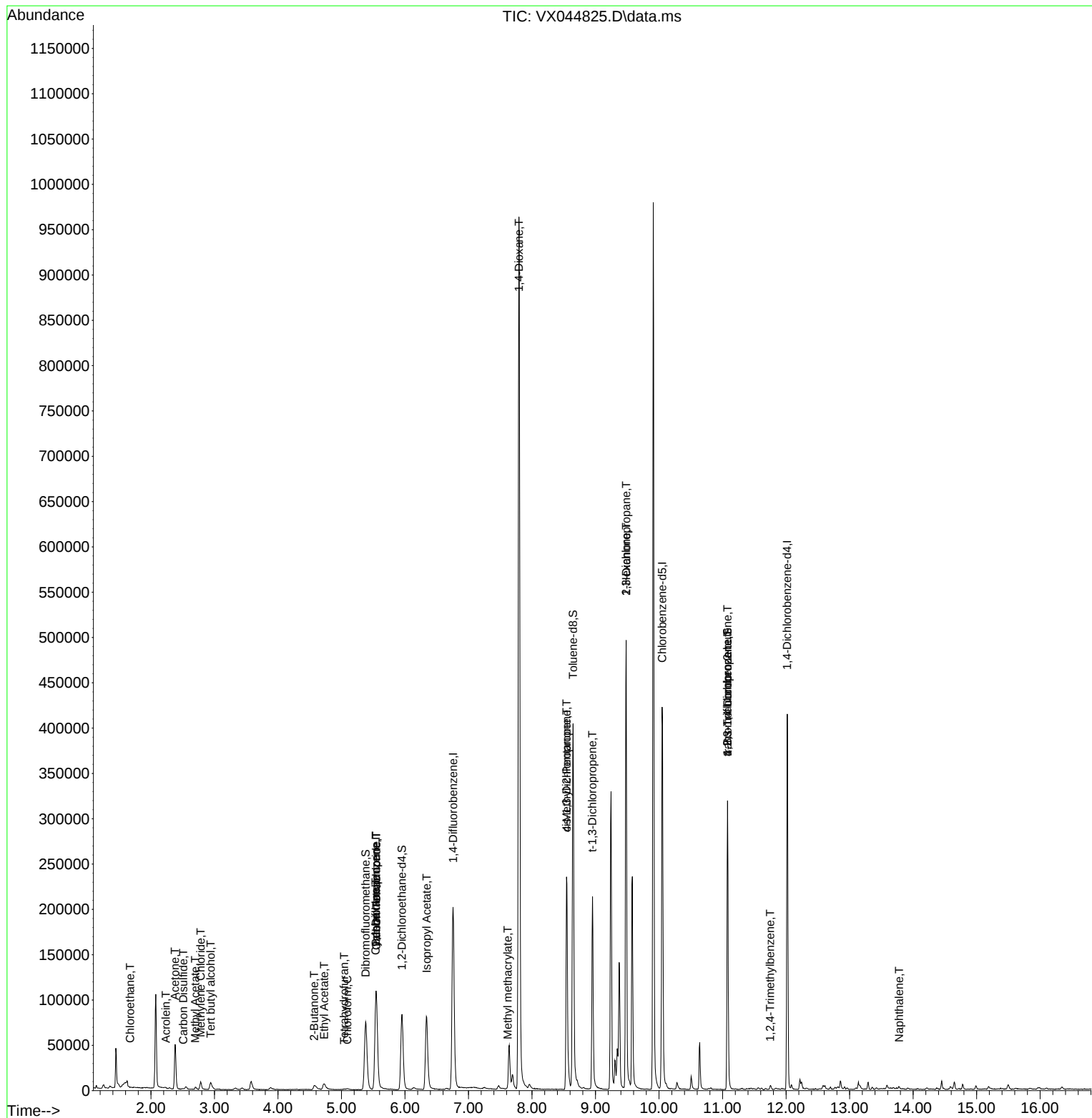
Target Compounds			Qvalue			
6) Chloroethane	1.672	64	308	1.101	ug/l #	41
11) Tert butyl alcohol	2.941	59	6334	17.737	ug/l #	87
13) Acrolein	2.233	56	311	1.851	ug/l #	29
16) Acetone	2.380	43	51360	81.041	ug/l	97
17) Carbon Disulfide	2.508	76	1010	0.298	ug/l #	83
18) Methyl Acetate	2.697	43	3212	1.643	ug/l #	89
20) Methylene Chloride	2.782	84	3946	2.674	ug/l #	89
25) 2-Butanone	4.568	43	8808	9.348	ug/l	94
29) Tetrahydrofuran	5.044	42	590	0.971	ug/l #	42
30) Chloroform	5.093	83	1173	0.466	ug/l	98
31) Cyclohexane	5.538	56	2496	1.237	ug/l #	1
36) 1,1-Dichloropropene	5.544	75	9178	4.843	ug/l #	48
37) Ethyl Acetate	4.727	43	13922	6.899	ug/l	96
38) Carbon Tetrachloride	5.550	117	11227	5.267	ug/l #	16
43) Isopropyl Acetate	6.342	43	117980	31.782	ug/l	98
48) Methyl methacrylate	7.617	41	2965	1.721	ug/l #	36
49) 1,4-Dioxane	7.793	88	142	3.950	ug/l #	1
51) 4-Methyl-2-Pentanone	8.543	43	89420	43.588	ug/l #	50
53) t-1,3-Dichloropropene	8.952	75	503	0.211	ug/l #	44
54) cis-1,3-Dichloropropene	8.543	75	42206	16.327	ug/l #	57
57) 1,3-Dichloropropane	9.482	76	4438	1.792	ug/l #	42
59) 2-Hexanone	9.482	43	60893	40.346	ug/l #	51
76) 1,2,3-Trichloropropane	11.079	75	44215	21.862	ug/l #	32
81) trans-1,4-Dichloro-2-b...	11.079	75	44215	49.996	ug/l #	12
84) 1,2,4-Trimethylbenzene	11.750	105	2147	0.381	ug/l	97
95) Naphthalene	13.780	128	2206	0.338	ug/l #	91

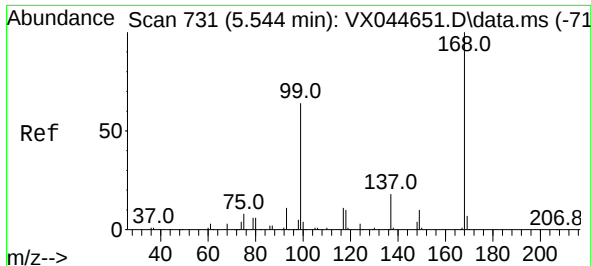
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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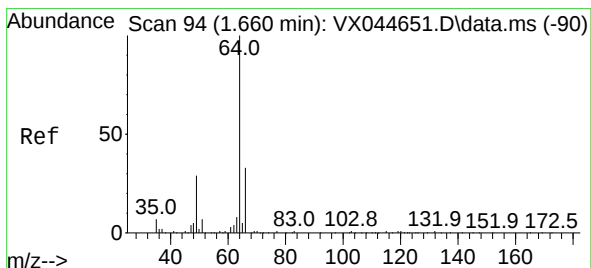
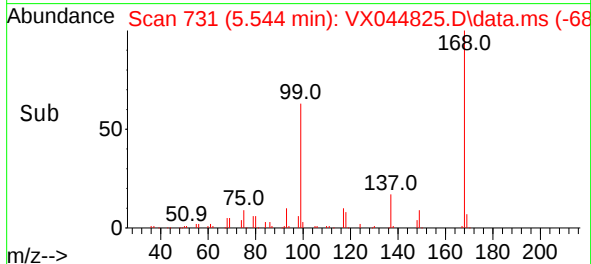
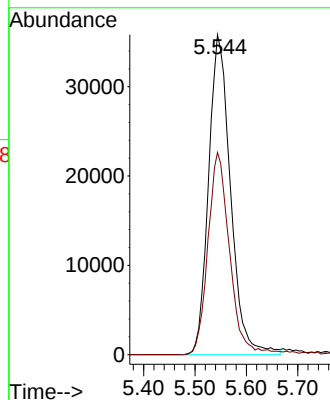
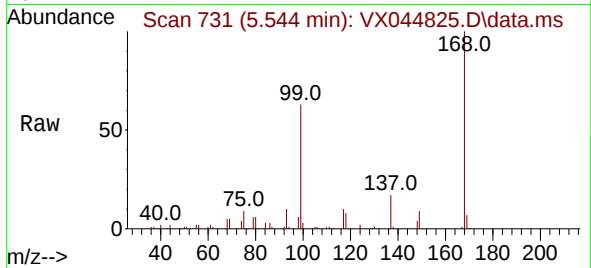




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX044825.D
Acq: 03 Feb 2025 19:14

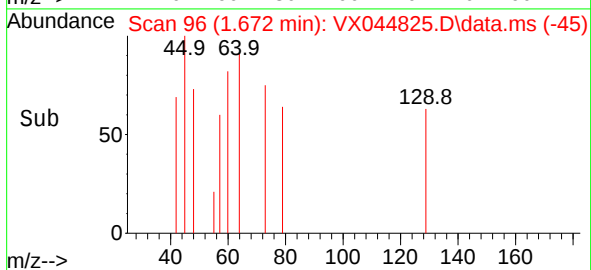
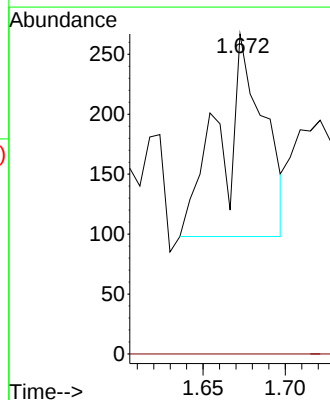
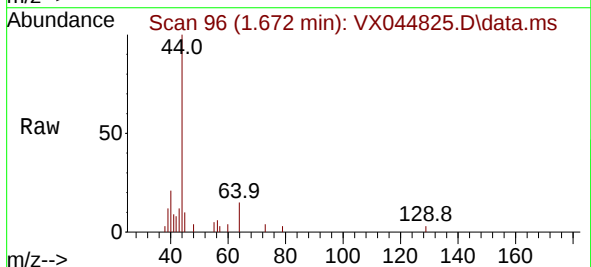
Instrument :
MSVOA_X
ClientSampleId :

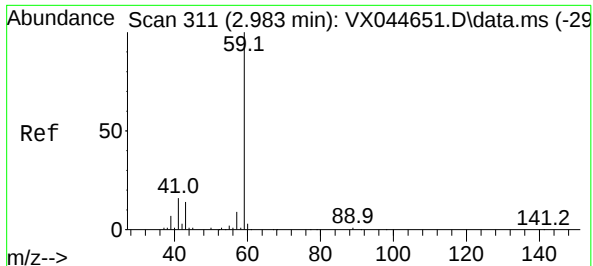
Tgt Ion:168 Resp: 106122
Ion Ratio Lower Upper
168 100
99 63.2 51.1 76.7



#6
Chloroethane
Concen: 1.101 ug/l
RT: 1.672 min Scan# 96
Delta R.T. 0.012 min
Lab File: VX044825.D
Acq: 03 Feb 2025 19:14

Tgt Ion: 64 Resp: 308
Ion Ratio Lower Upper
64 100
66 0.0 26.6 39.8#





#11

Tert butyl alcohol

Concen: 17.737 ug/l

RT: 2.941 min Scan# 304

Delta R.T. -0.043 min

Lab File: VX044825.D

Acq: 03 Feb 2025 19:14

Instrument :

MSVOA_X

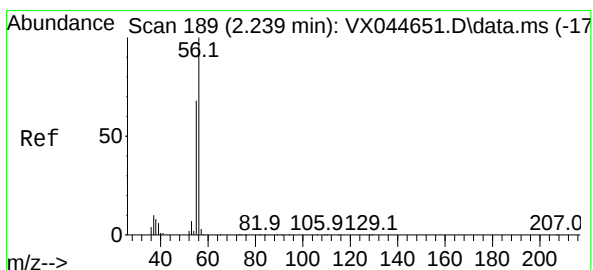
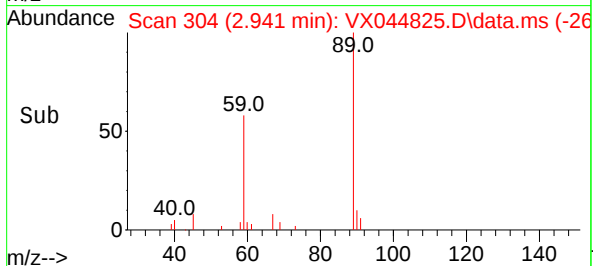
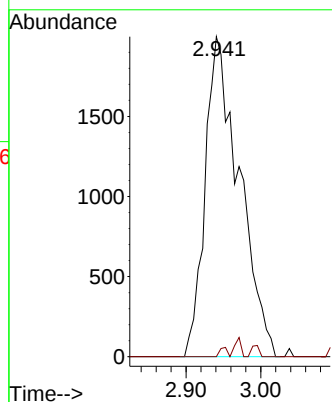
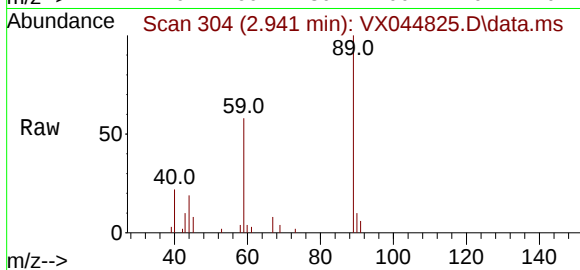
ClientSampleId :

Tgt Ion: 59 Resp: 6334

Ion Ratio Lower Upper

59 100

57 0.6 3.9 5.9#



#13

Acrolein

Concen: 1.851 ug/l

RT: 2.233 min Scan# 188

Delta R.T. -0.006 min

Lab File: VX044825.D

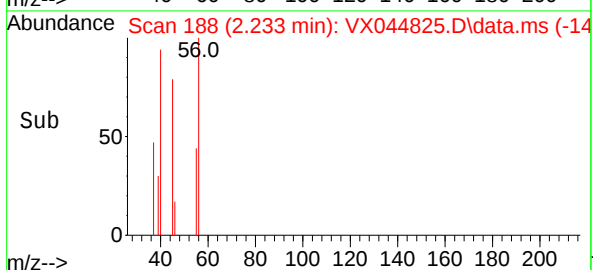
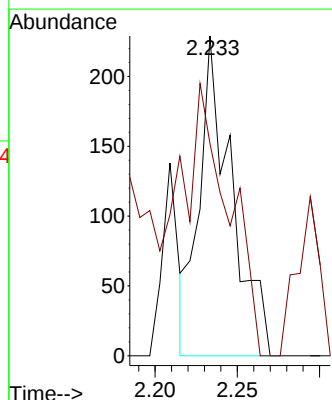
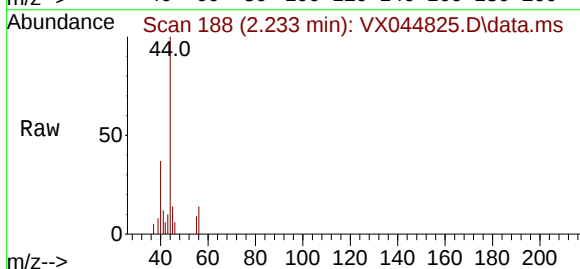
Acq: 03 Feb 2025 19:14

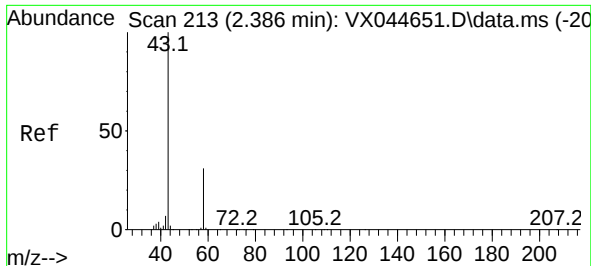
Tgt Ion: 56 Resp: 311

Ion Ratio Lower Upper

56 100

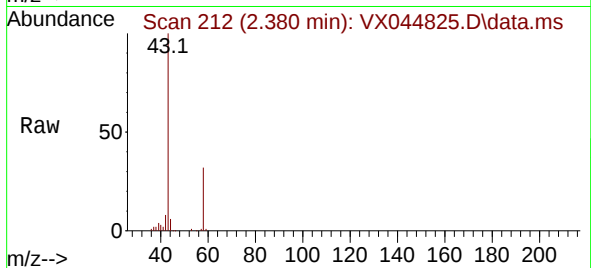
55 126.7 55.1 82.7#



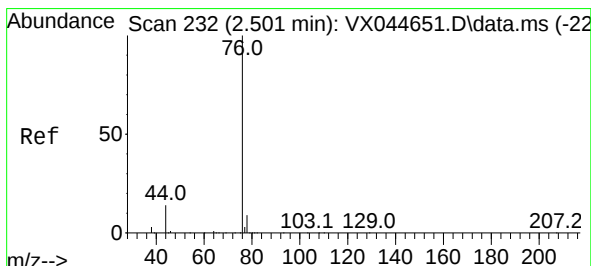
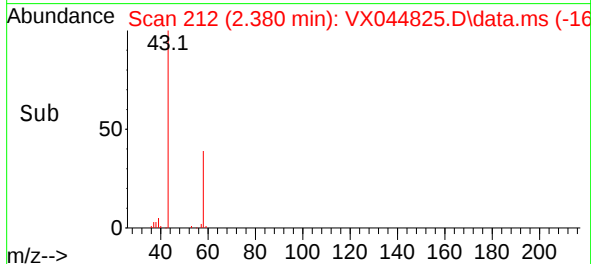
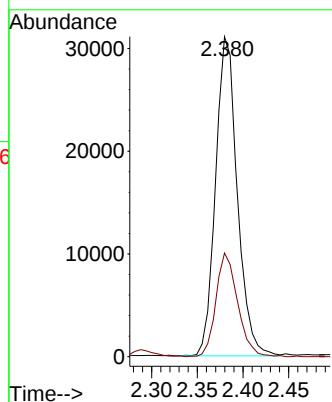


#16
Acetone
Concen: 81.041 ug/l
RT: 2.380 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044825.D
Acq: 03 Feb 2025 19:14

Instrument :
MSVOA_X
ClientSampleId :

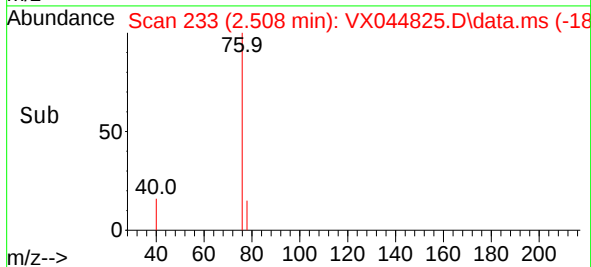
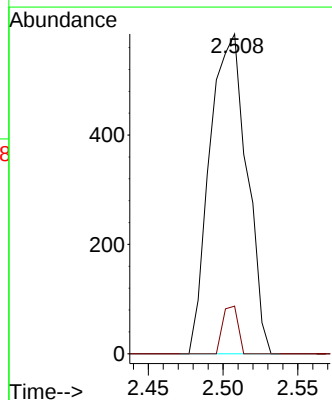
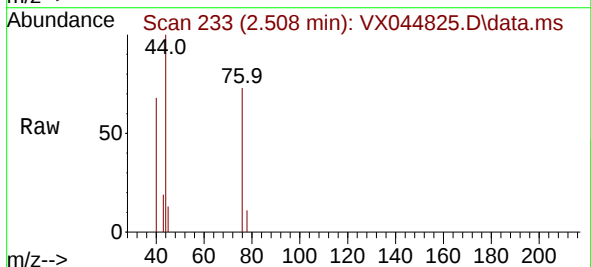


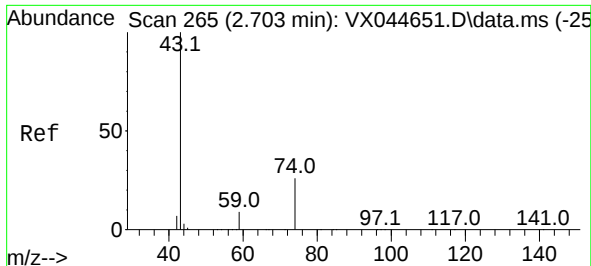
Tgt Ion: 43 Resp: 51360
Ion Ratio Lower Upper
43 100
58 32.2 24.6 37.0



#17
Carbon Disulfide
Concen: 0.298 ug/l
RT: 2.508 min Scan# 233
Delta R.T. 0.006 min
Lab File: VX044825.D
Acq: 03 Feb 2025 19:14

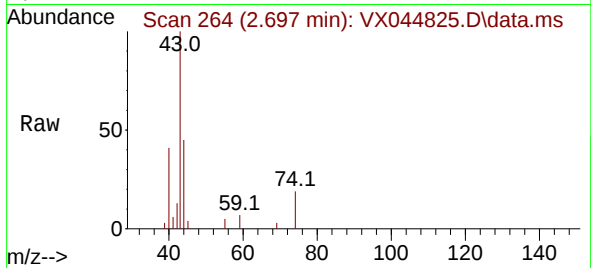
Tgt Ion: 76 Resp: 1010
Ion Ratio Lower Upper
76 100
78 14.9 7.1 10.7#



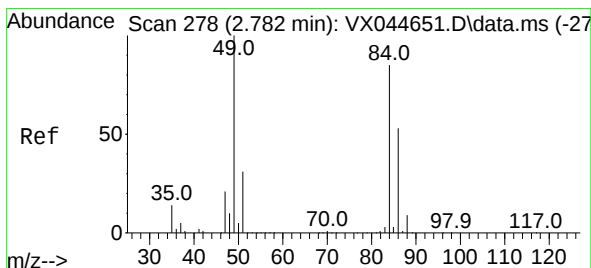
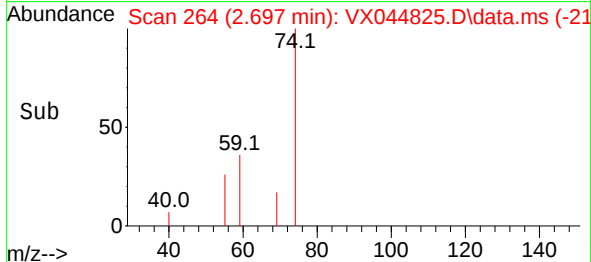
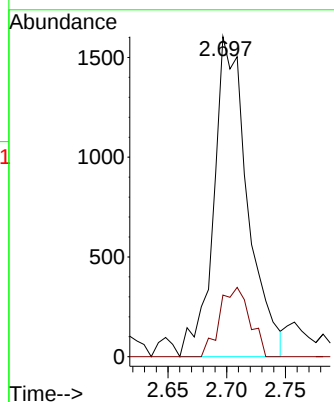


#18
Methyl Acetate
Concen: 1.643 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX044825.D
Acq: 03 Feb 2025 19:14

Instrument :
MSVOA_X
ClientSampleId :

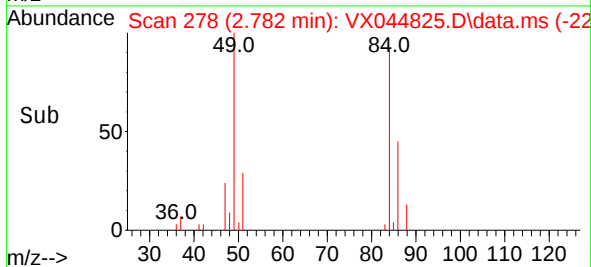
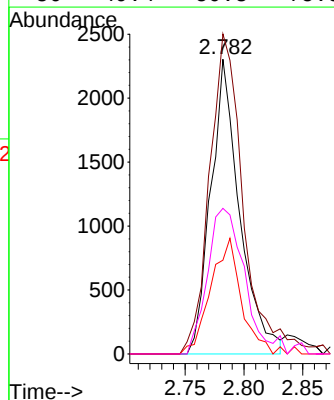
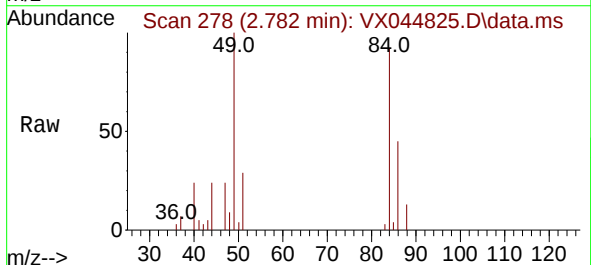


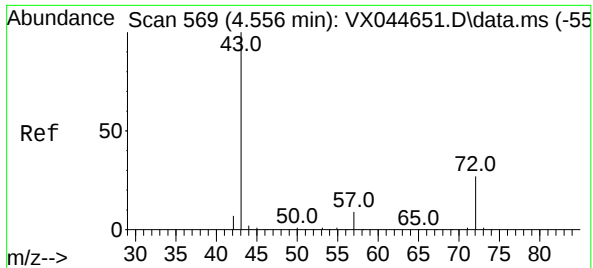
Tgt Ion: 43 Resp: 3212
Ion Ratio Lower Upper
43 100
74 19.3 19.8 29.8#



#20
Methylene Chloride
Concen: 2.674 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044825.D
Acq: 03 Feb 2025 19:14

Tgt Ion: 84 Resp: 3946
Ion Ratio Lower Upper
84 100
49 108.5 94.2 141.4
51 31.8 28.8 43.2
86 49.4 50.3 75.5#





#25

2-Butanone

Concen: 9.348 ug/l

RT: 4.568 min Scan# 51

Delta R.T. 0.012 min

Lab File: VX044825.D

Acq: 03 Feb 2025 19:14

Instrument :

MSVOA_X

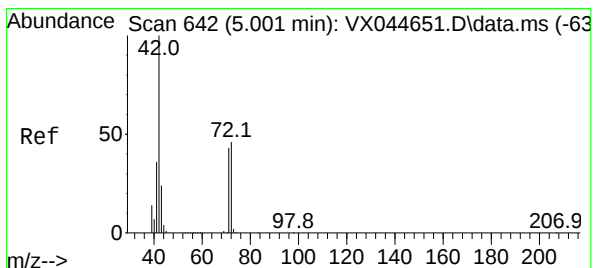
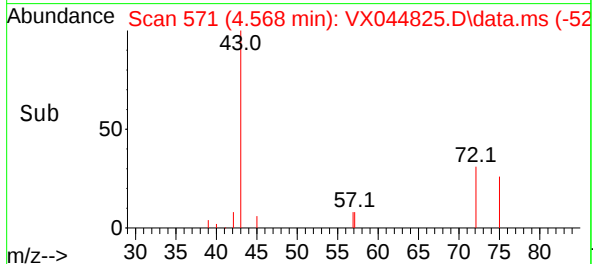
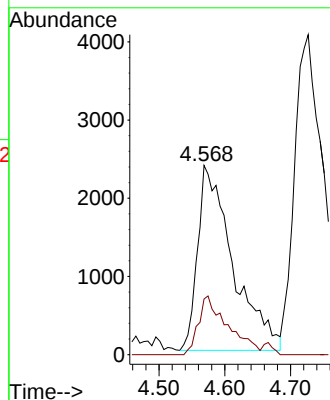
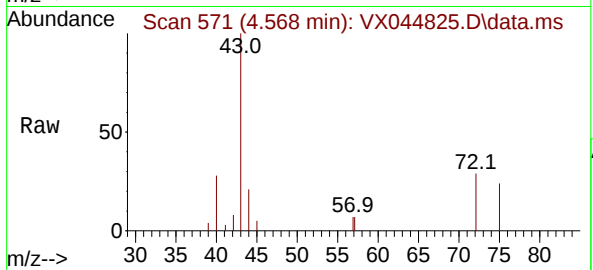
ClientSampleId :

Tgt Ion: 43 Resp: 8808

Ion Ratio Lower Upper

43 100

72 30.1 21.7 32.5



#29

Tetrahydrofuran

Concen: 0.971 ug/l

RT: 5.044 min Scan# 649

Delta R.T. 0.043 min

Lab File: VX044825.D

Acq: 03 Feb 2025 19:14

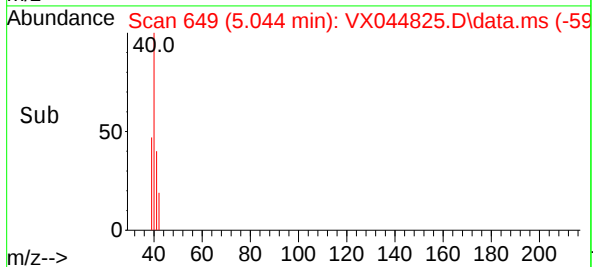
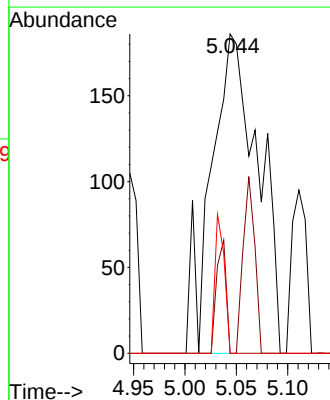
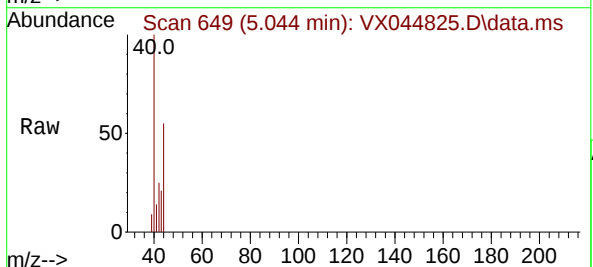
Tgt Ion: 42 Resp: 590

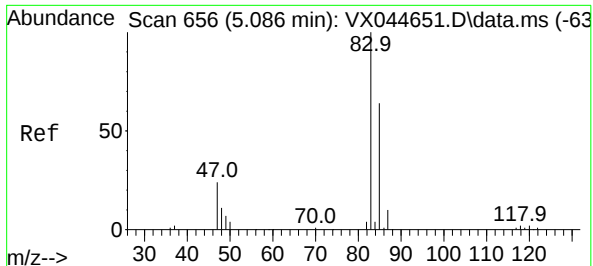
Ion Ratio Lower Upper

42 100

72 7.3 38.2 57.4#

71 8.6 35.3 52.9#





#30

Chloroform

Concen: 0.466 ug/l

RT: 5.093 min Scan# 61

Delta R.T. 0.006 min

Lab File: VX044825.D

Acq: 03 Feb 2025 19:14

Instrument :

MSVOA_X

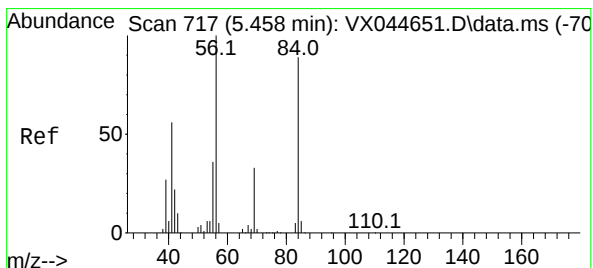
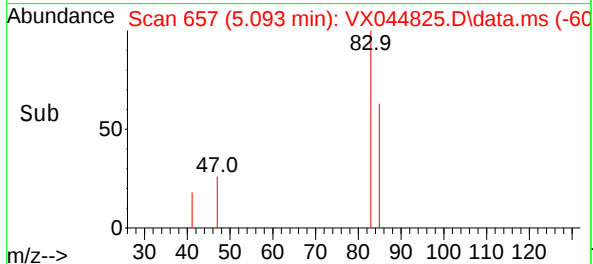
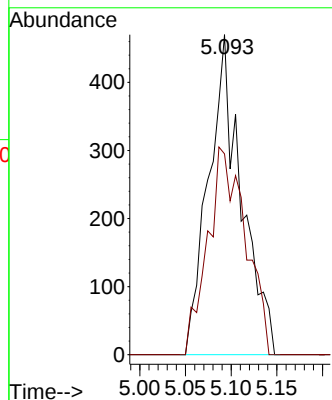
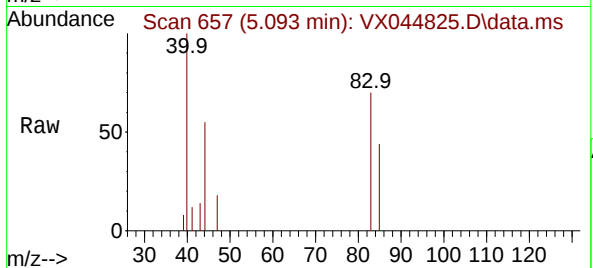
ClientSampleId :

Tgt Ion: 83 Resp: 1173

Ion Ratio Lower Upper

83 100

85 62.8 51.2 76.8



#31

Cyclohexane

Concen: 1.237 ug/l

RT: 5.538 min Scan# 730

Delta R.T. 0.079 min

Lab File: VX044825.D

Acq: 03 Feb 2025 19:14

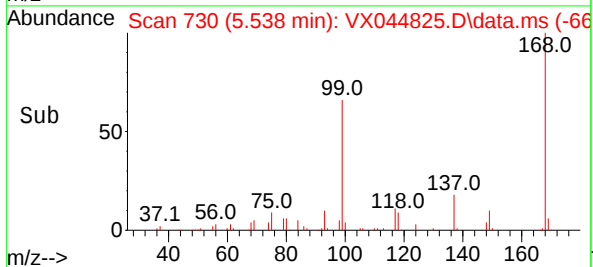
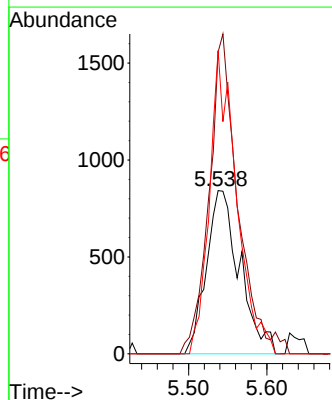
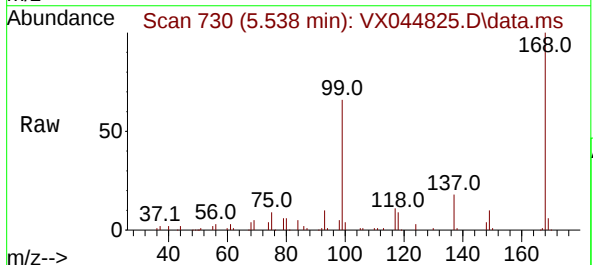
Tgt Ion: 56 Resp: 2496

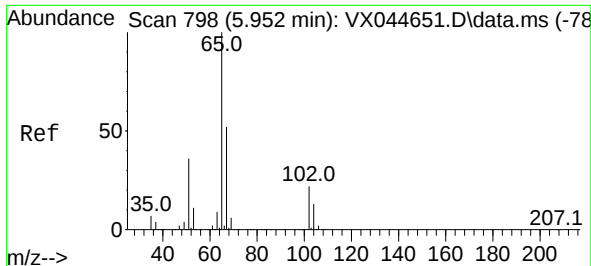
Ion Ratio Lower Upper

56 100

69 184.9 26.8 40.2#

84 185.7 71.0 106.4#

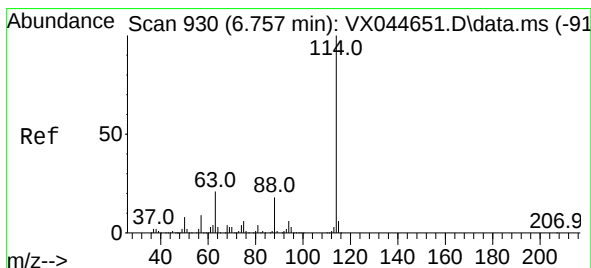
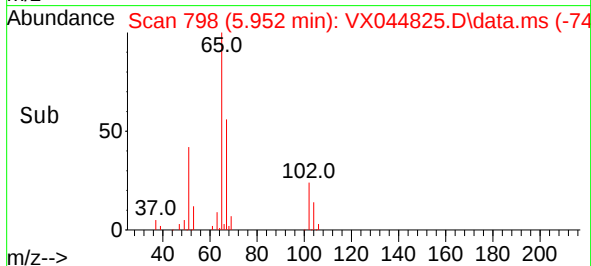
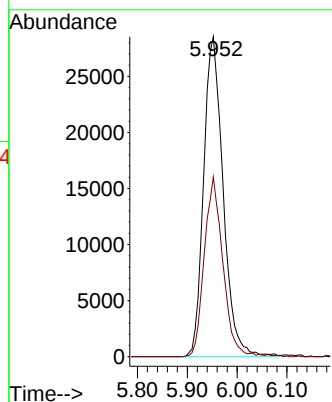
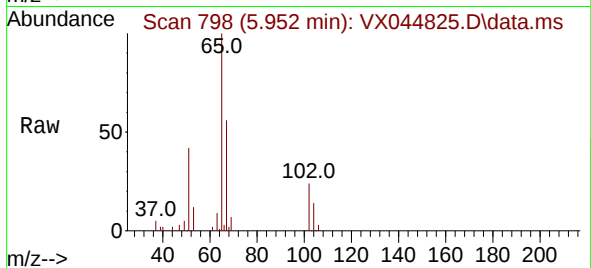




#33
 1,2-Dichloroethane-d4
 Concen: 48.518 ug/l
 RT: 5.952 min Scan# 798
 Delta R.T. 0.000 min
 Lab File: VX044825.D
 Acq: 03 Feb 2025 19:14

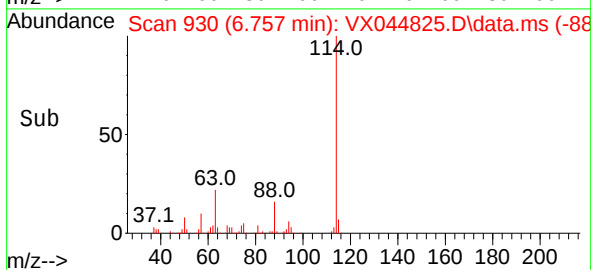
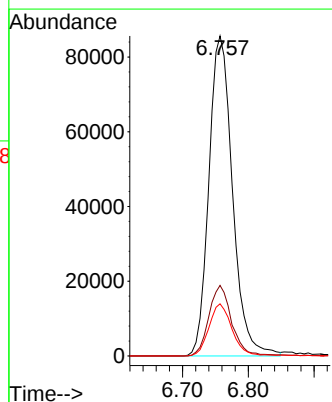
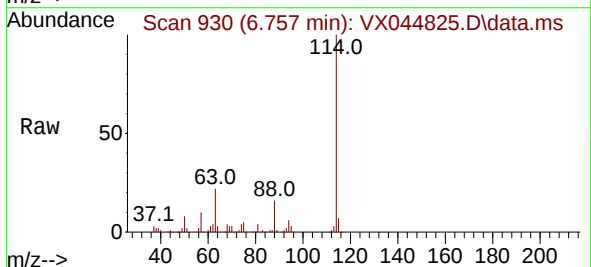
Instrument :
 MSVOA_X
 ClientSampleId :

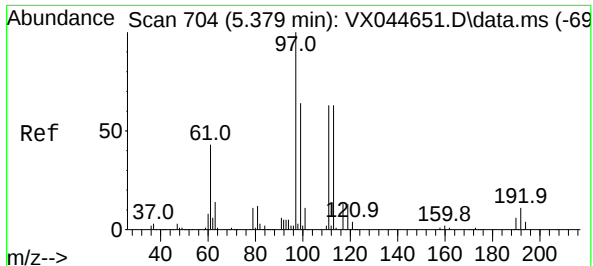
Tgt Ion: 65 Resp: 77717
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 103.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.757 min Scan# 930
 Delta R.T. 0.000 min
 Lab File: VX044825.D
 Acq: 03 Feb 2025 19:14

Tgt Ion: 114 Resp: 214275
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 43.0
 88 16.3 0.0 35.4





#35

Dibromofluoromethane

Concen: 48.583 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

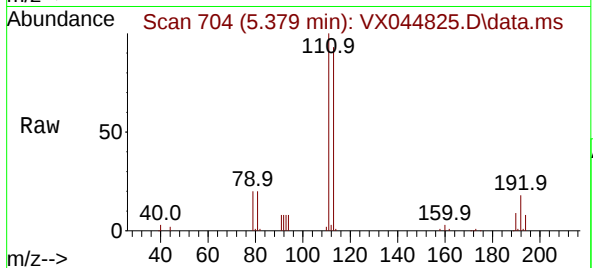
Lab File: VX044825.D

Acq: 03 Feb 2025 19:14

Instrument :

MSVOA_X

ClientSampleId :



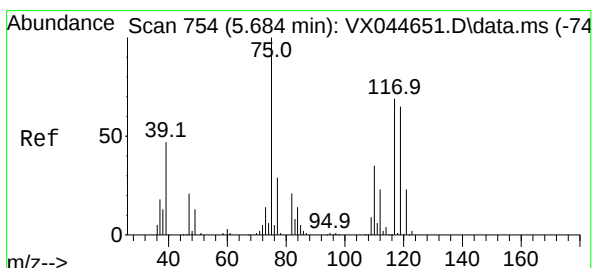
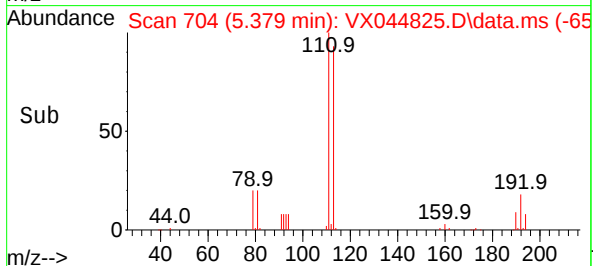
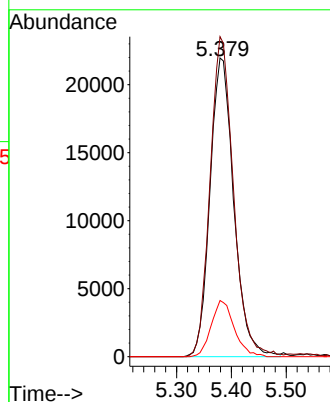
Tgt Ion:113 Resp: 66134

Ion Ratio Lower Upper

113 100

111 105.4 81.6 122.4

192 18.2 14.4 21.6



#36

1,1-Dichloropropene

Concen: 4.843 ug/l

RT: 5.544 min Scan# 731

Delta R.T. -0.140 min

Lab File: VX044825.D

Acq: 03 Feb 2025 19:14

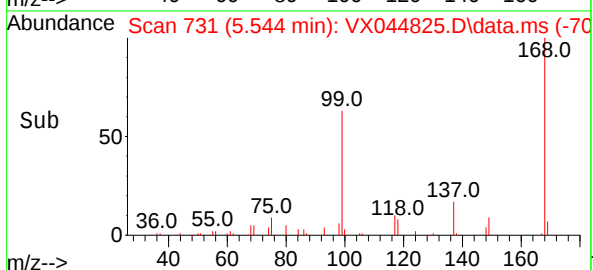
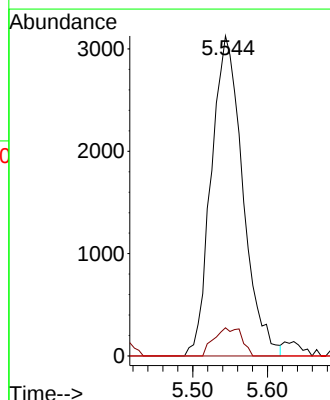
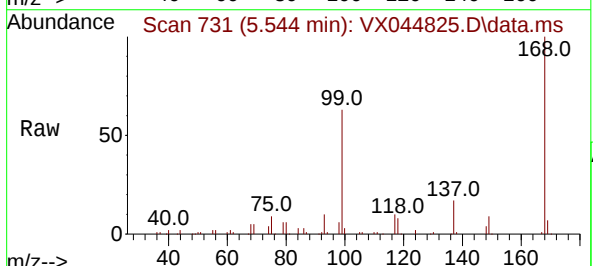
Tgt Ion: 75 Resp: 9178

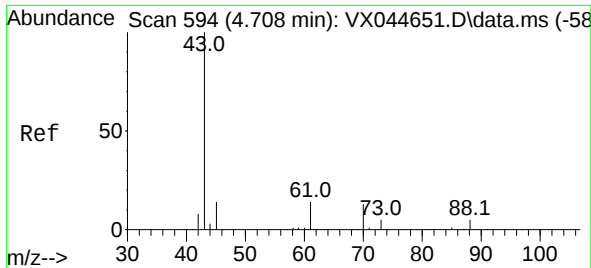
Ion Ratio Lower Upper

75 100

110 7.7 17.9 53.8#

77 0.0 24.5 36.7#





#37

Ethyl Acetate

Concen: 6.899 ug/l

RT: 4.727 min Scan# 594

Delta R.T. 0.018 min

Lab File: VX044825.D

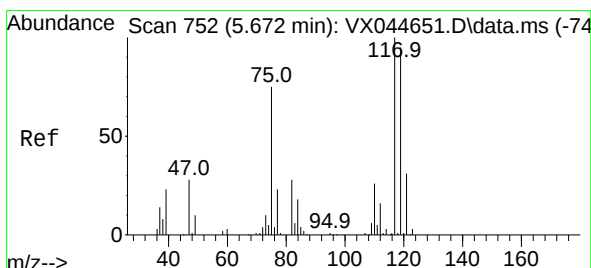
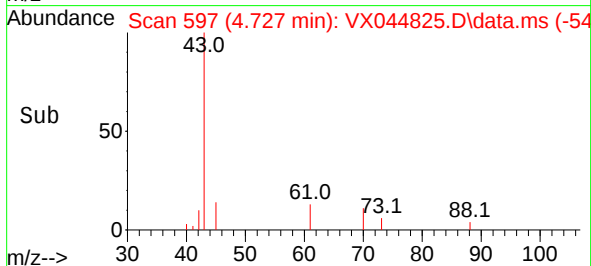
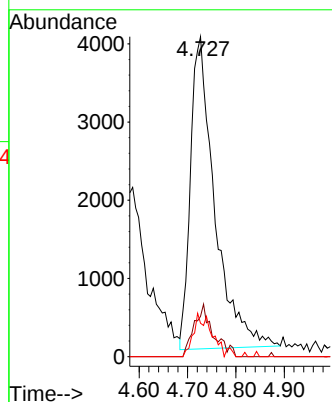
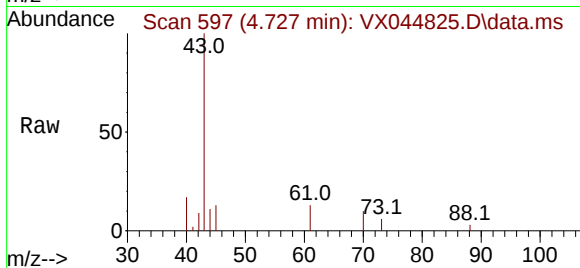
Acq: 03 Feb 2025 19:14

Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion:	43	Resp:	13922
Ion	Ratio	Lower	Upper
43	100		
61	13.2	10.9	16.3
70	10.1	10.1	15.1



#38

Carbon Tetrachloride

Concen: 5.267 ug/l

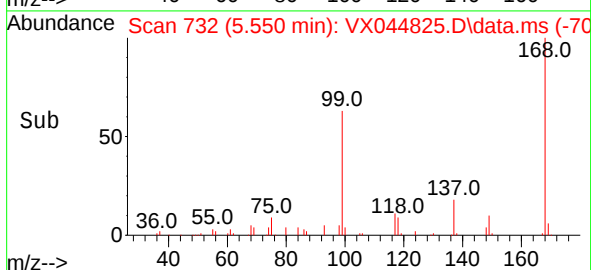
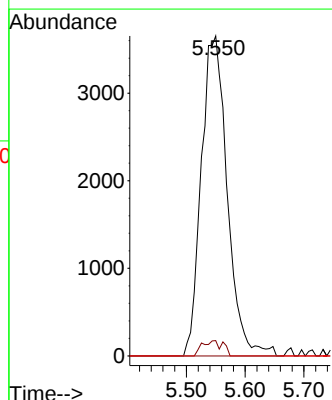
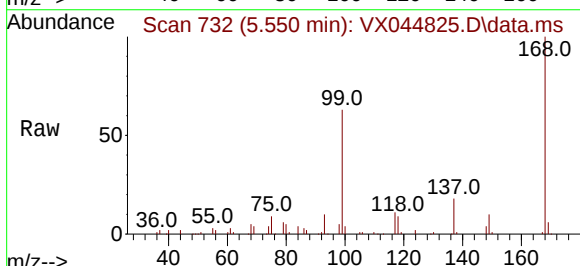
RT: 5.550 min Scan# 732

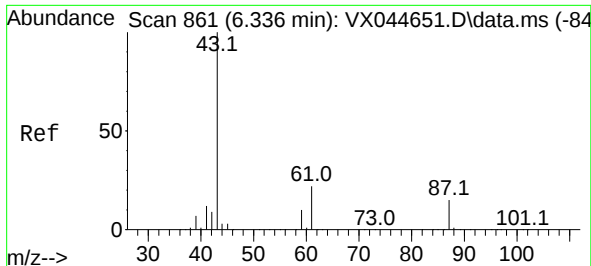
Delta R.T. -0.122 min

Lab File: VX044825.D

Acq: 03 Feb 2025 19:14

Tgt Ion:	117	Resp:	11227
Ion	Ratio	Lower	Upper
117	100		
119	4.8	76.0	114.0#
121	0.0	24.6	36.8#

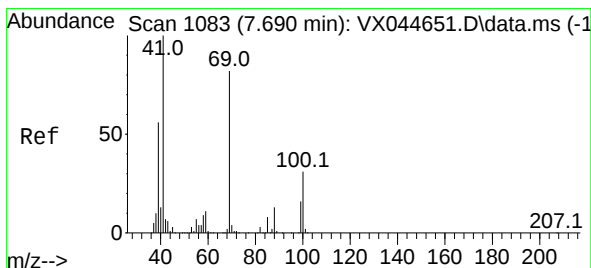
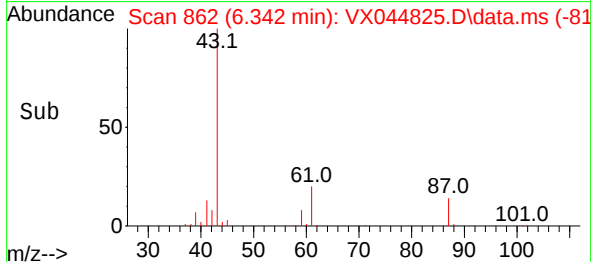
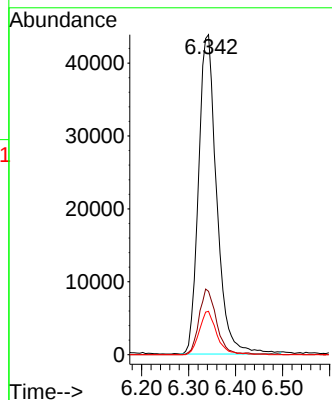
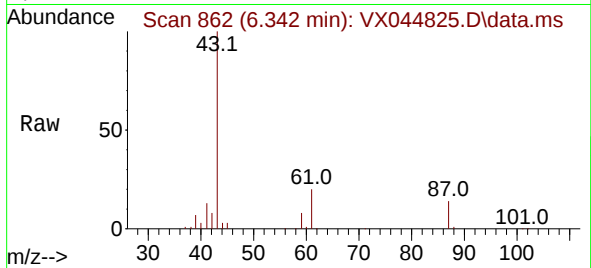




#43
Isopropyl Acetate
Concen: 31.782 ug/l
RT: 6.342 min Scan# 861
Delta R.T. 0.006 min
Lab File: VX044825.D
Acq: 03 Feb 2025 19:14

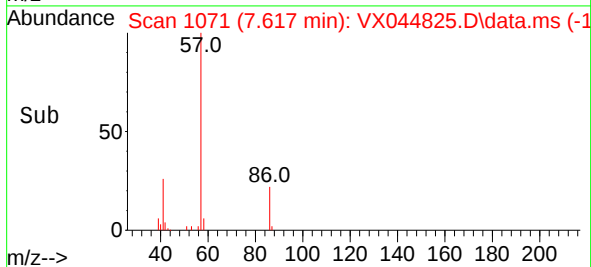
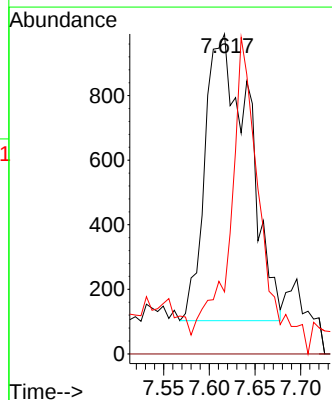
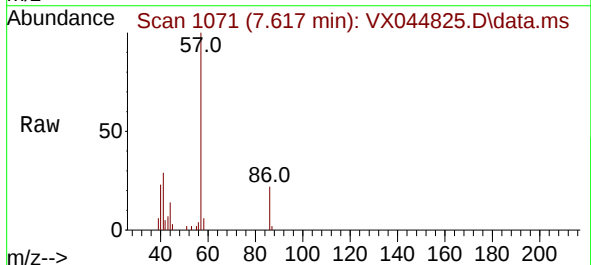
Instrument :
MSVOA_X
ClientSampleId :

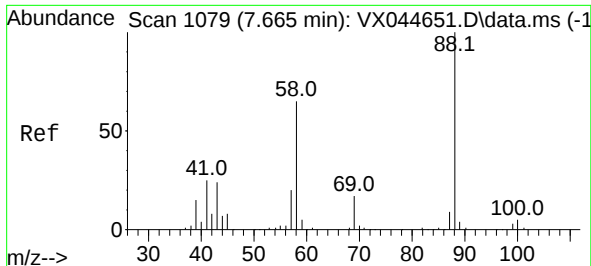
Tgt Ion: 43 Resp: 117980
Ion Ratio Lower Upper
43 100
61 19.5 16.6 24.8
87 13.0 11.0 16.6



#48
Methyl methacrylate
Concen: 1.721 ug/l
RT: 7.617 min Scan# 1071
Delta R.T. -0.073 min
Lab File: VX044825.D
Acq: 03 Feb 2025 19:14

Tgt Ion: 41 Resp: 2965
Ion Ratio Lower Upper
41 100
69 0.0 66.8 100.2#
39 77.4 47.4 71.0#

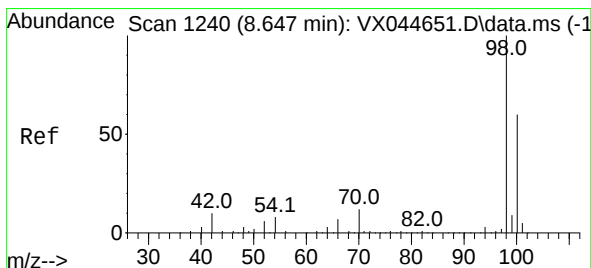
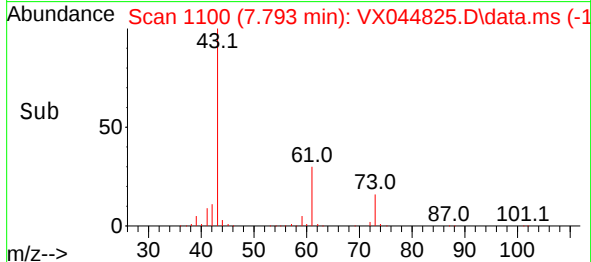
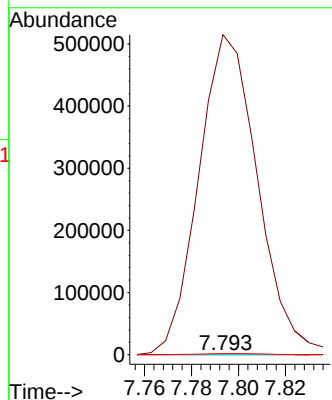
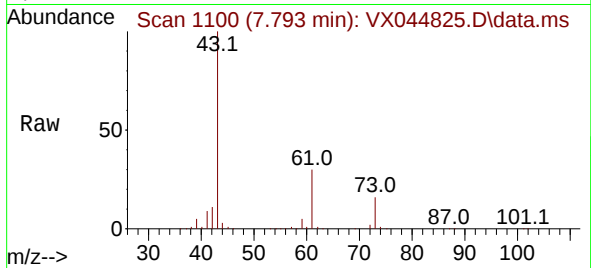




#49
1,4-Dioxane
Concen: 3.950 ug/l
RT: 7.793 min Scan# 1100
Delta R.T. 0.128 min
Lab File: VX044825.D
Acq: 03 Feb 2025 19:14

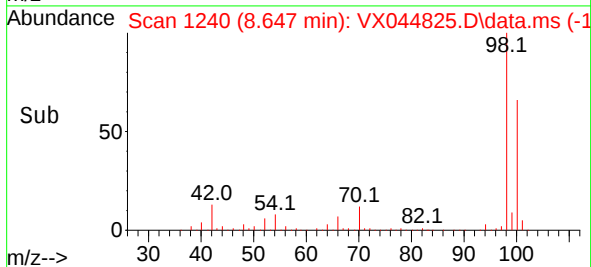
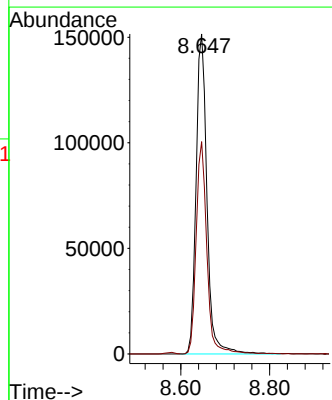
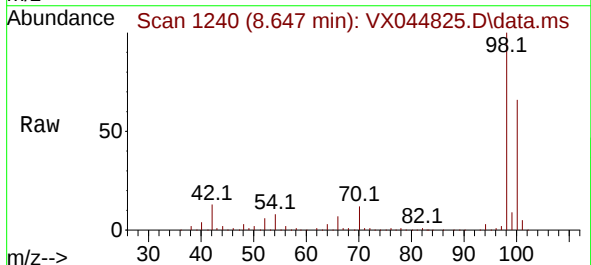
Instrument :
MSVOA_X
ClientSampleId :

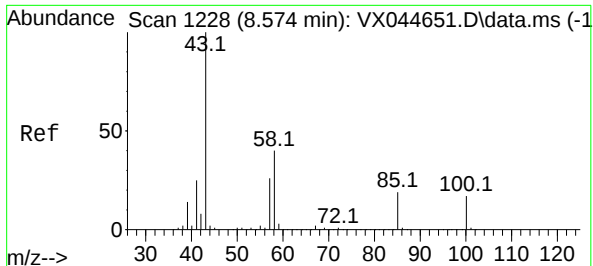
Tgt Ion: 88 Resp: 142
Ion Ratio Lower Upper
88 100
43 646336.6 27.0 40.4#
58 2638.7 55.8 83.8#



#50
Toluene-d8
Concen: 54.142 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044825.D
Acq: 03 Feb 2025 19:14

Tgt Ion: 98 Resp: 256981
Ion Ratio Lower Upper
98 100
100 65.1 53.2 79.8





#51

4-Methyl-2-Pentanone

Concen: 43.588 ug/l

RT: 8.543 min Scan# 1223

Delta R.T. -0.030 min

Lab File: VX044825.D

Acq: 03 Feb 2025 19:14

Instrument :

MSVOA_X

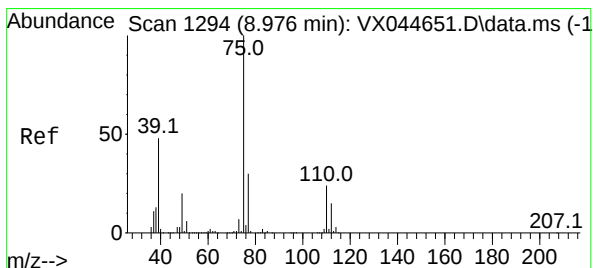
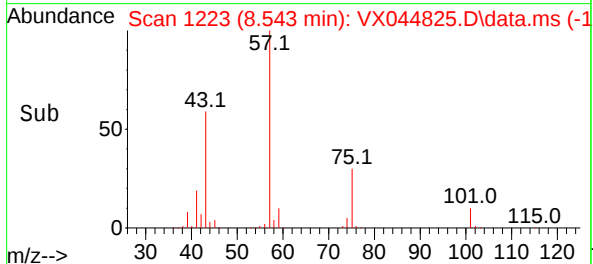
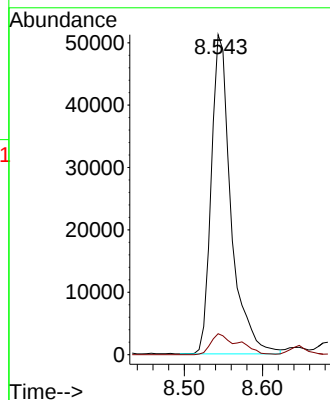
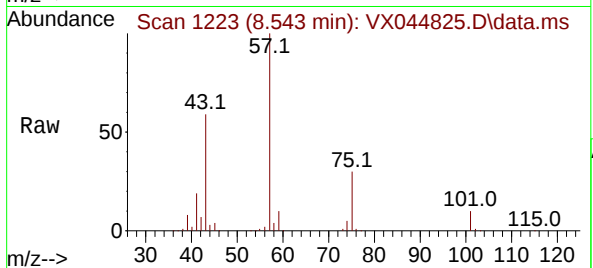
ClientSampleId :

Tgt Ion: 43 Resp: 89420

Ion Ratio Lower Upper

43 100

58 9.2 31.9 47.9#



#53

t-1,3-Dichloropropene

Concen: 0.211 ug/l

RT: 8.952 min Scan# 1290

Delta R.T. -0.024 min

Lab File: VX044825.D

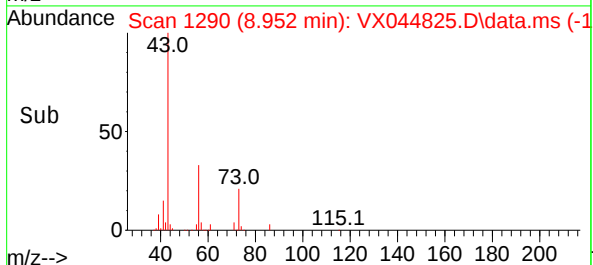
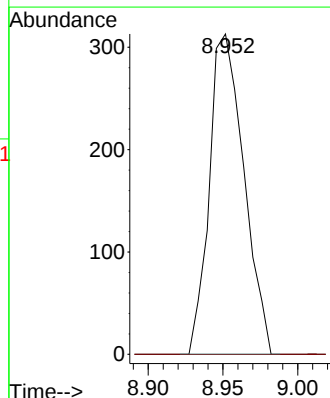
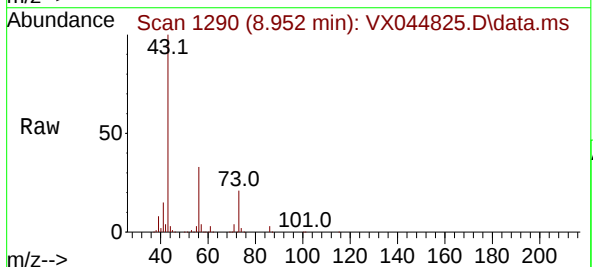
Acq: 03 Feb 2025 19:14

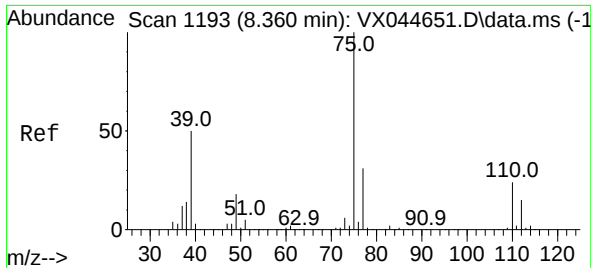
Tgt Ion: 75 Resp: 503

Ion Ratio Lower Upper

75 100

77 0.0 24.4 36.6#

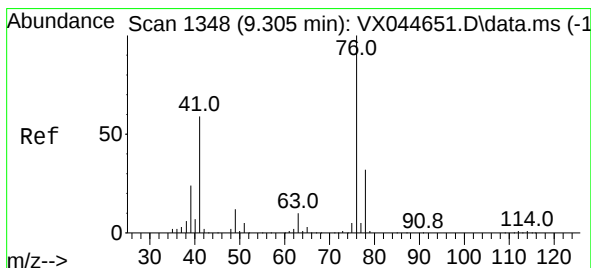
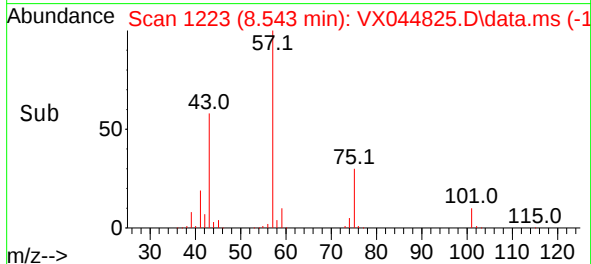
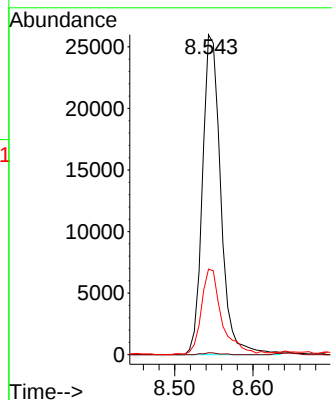
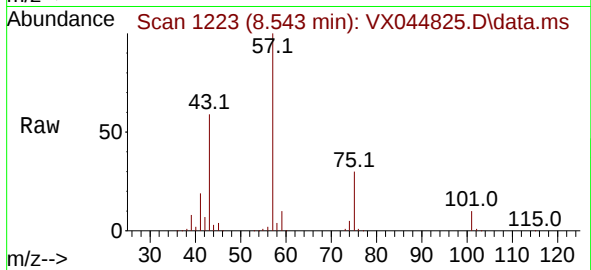




#54
 cis-1,3-Dichloropropene
 Concen: 16.327 ug/l
 RT: 8.543 min Scan# 1193
 Delta R.T. 0.183 min
 Lab File: VX044825.D
 Acq: 03 Feb 2025 19:14

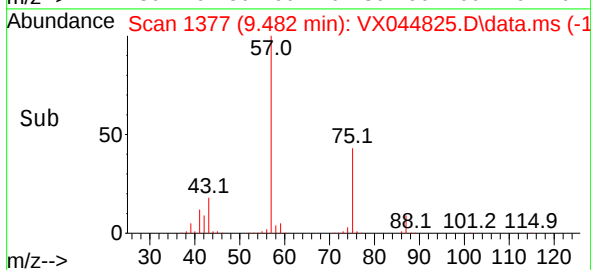
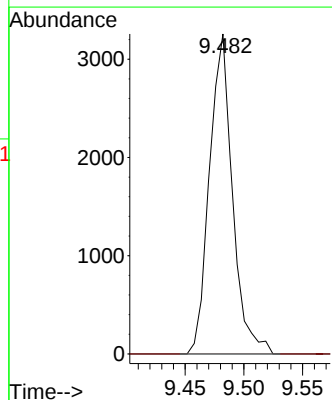
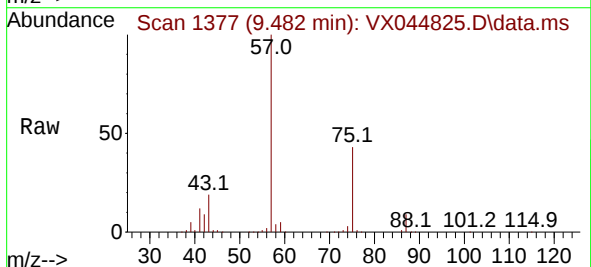
Instrument :
 MSVOA_X
 ClientSampleId :

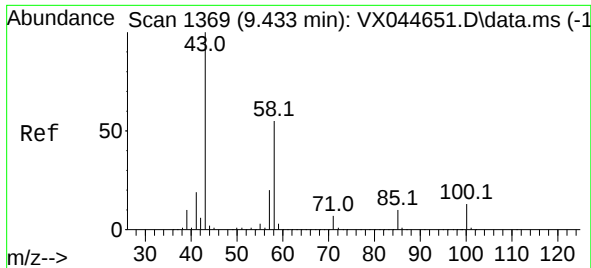
Tgt Ion: 75 Resp: 42206
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.1 37.7#
 39 26.5 40.3 60.5#



#57
 1,3-Dichloropropane
 Concen: 1.792 ug/l
 RT: 9.482 min Scan# 1377
 Delta R.T. 0.177 min
 Lab File: VX044825.D
 Acq: 03 Feb 2025 19:14

Tgt Ion: 76 Resp: 4438
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#

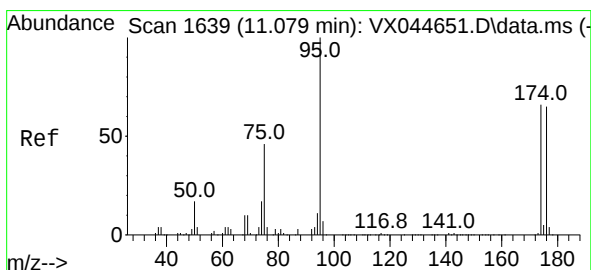
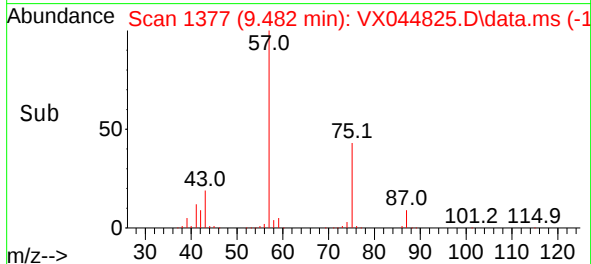
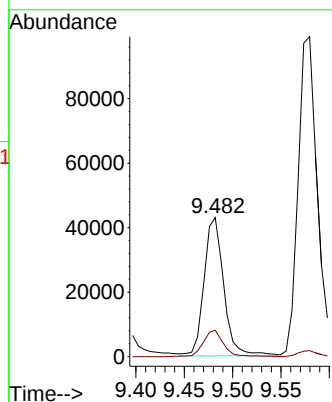
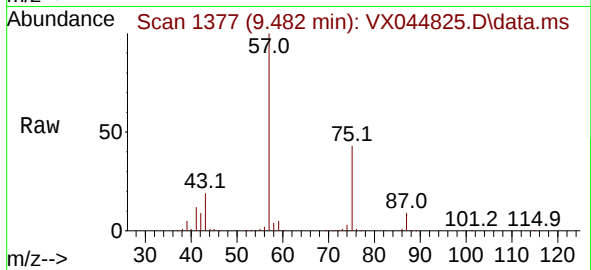




#59
2-Hexanone
Concen: 40.346 ug/l
RT: 9.482 min Scan# 1377
Delta R.T. 0.049 min
Lab File: VX044825.D
Acq: 03 Feb 2025 19:14

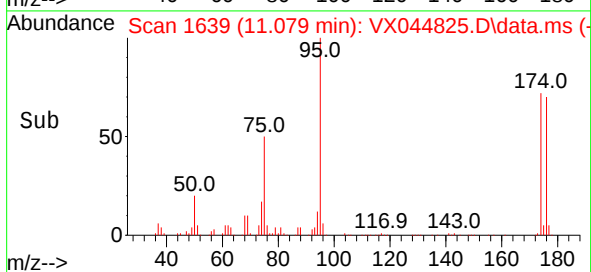
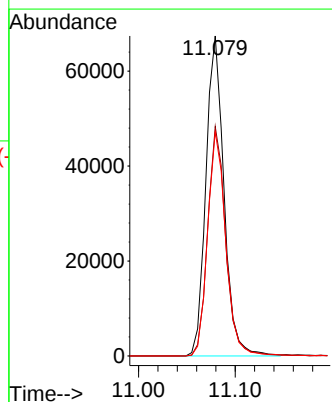
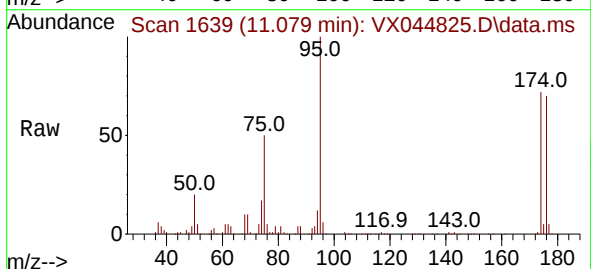
Instrument :
MSVOA_X
ClientSampleId :

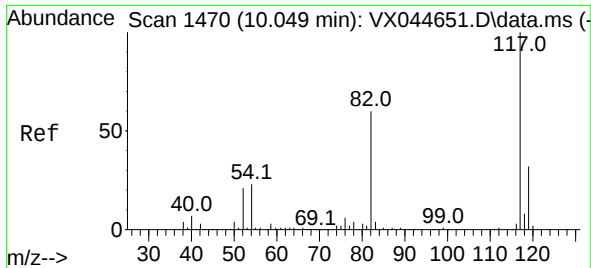
Tgt Ion: 43 Resp: 60893
Ion Ratio Lower Upper
43 100
58 19.9 27.8 83.3#



#62
4-Bromofluorobenzene
Concen: 49.675 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044825.D
Acq: 03 Feb 2025 19:14

Tgt Ion: 95 Resp: 87896
Ion Ratio Lower Upper
95 100
174 71.5 0.0 133.0
176 70.4 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: VX044825.D

Acq: 03 Feb 2025 19:14

Instrument :

MSVOA_X

ClientSampleId :

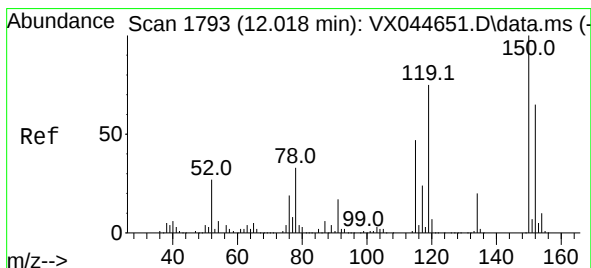
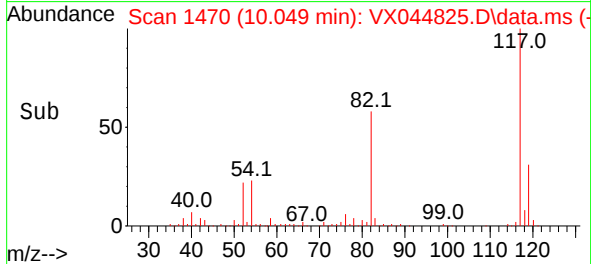
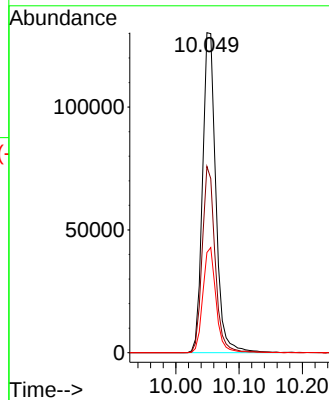
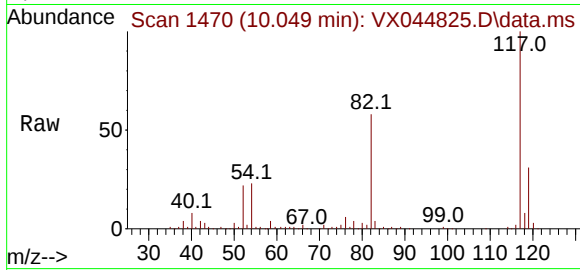
Tgt Ion:117 Resp: 191126

Ion Ratio Lower Upper

117 100

82 58.2 47.6 71.4

119 31.3 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: VX044825.D

Acq: 03 Feb 2025 19:14

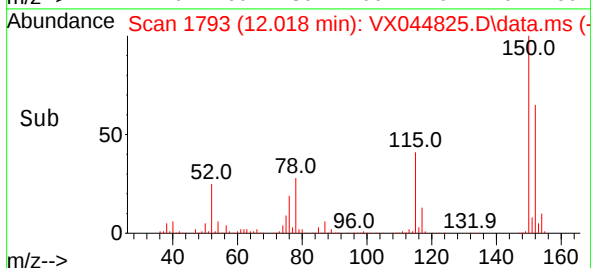
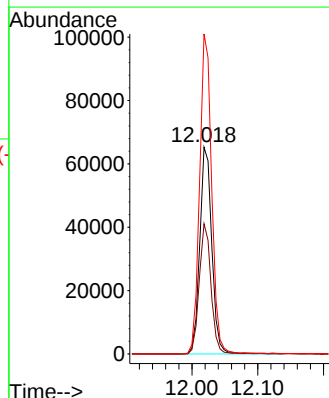
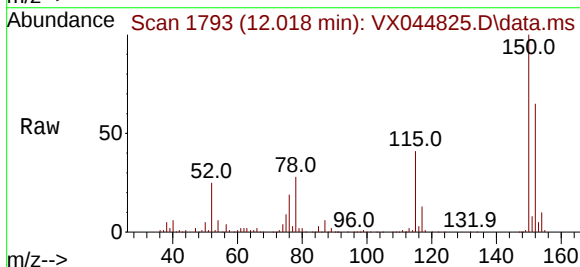
Tgt Ion:152 Resp: 83336

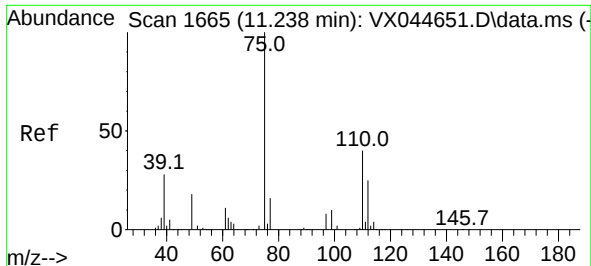
Ion Ratio Lower Upper

152 100

115 61.5 43.8 131.4

150 154.4 0.0 347.8





#76

1,2,3-Trichloropropane

Concen: 21.862 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX044825.D

Acq: 03 Feb 2025 19:14

Instrument :

MSVOA_X

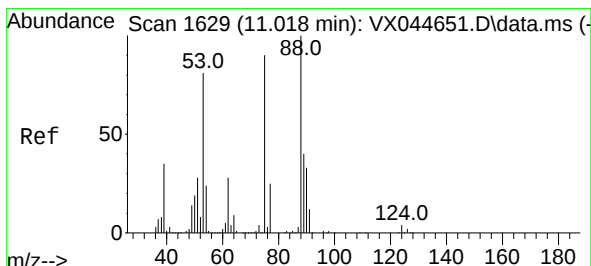
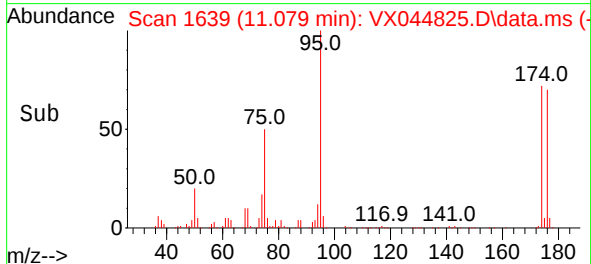
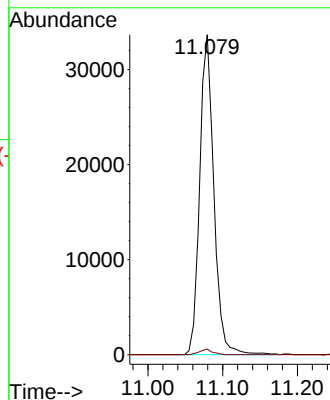
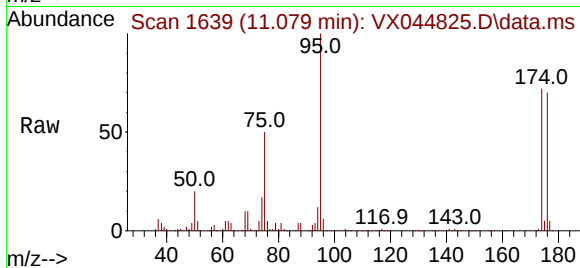
ClientSampleId :

Tgt Ion: 75 Resp: 44215

Ion Ratio Lower Upper

75 100

77 1.6 23.4 70.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 49.996 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX044825.D

Acq: 03 Feb 2025 19:14

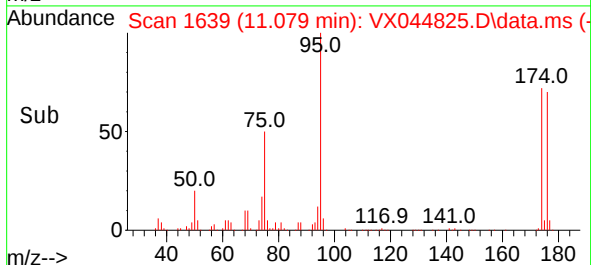
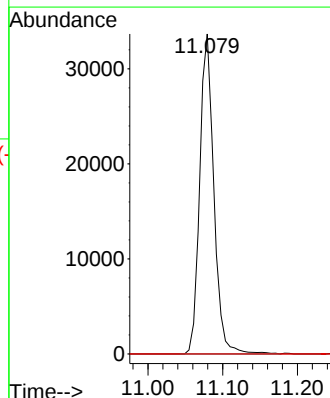
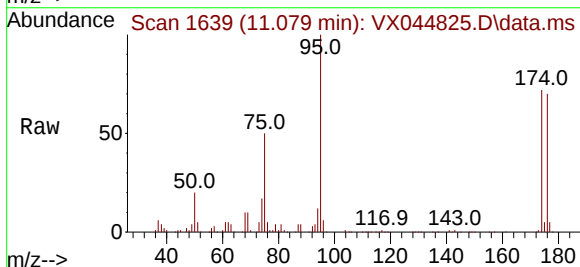
Tgt Ion: 75 Resp: 44215

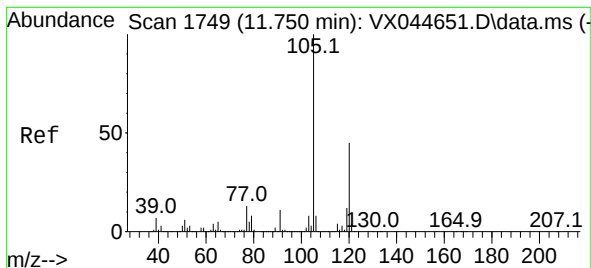
Ion Ratio Lower Upper

75 100

53 0.0 74.3 111.5#

89 0.0 37.4 56.0#





#84

1,2,4-Trimethylbenzene

Concen: 0.381 ug/l

RT: 11.750 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX044825.D

Acq: 03 Feb 2025 19:14

Instrument :

MSVOA_X

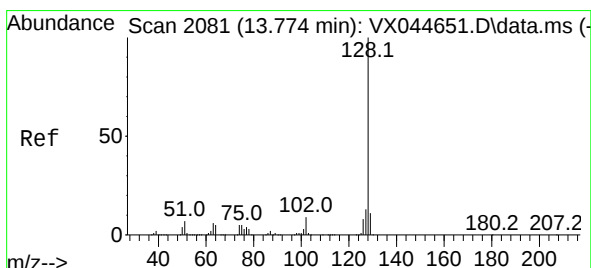
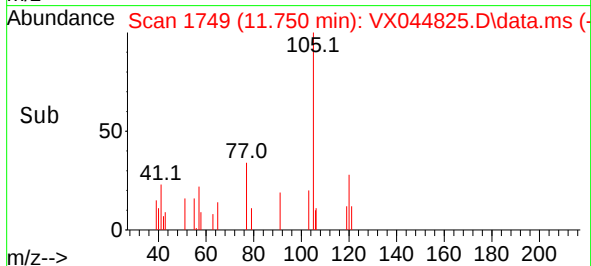
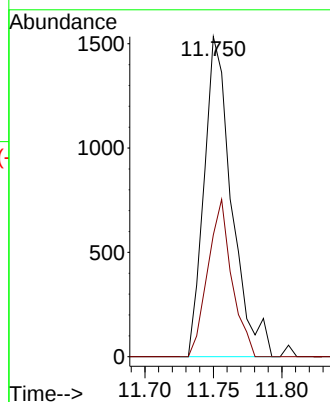
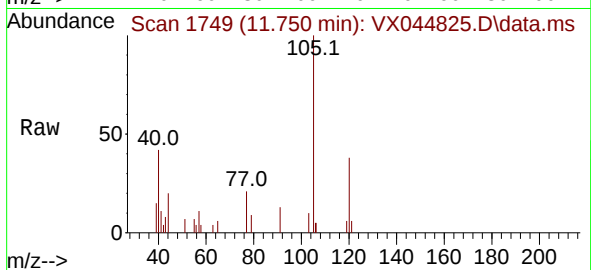
ClientSampleId :

Tgt Ion:105 Resp: 2147

Ion Ratio Lower Upper

105 100

120 42.7 22.2 66.6



#95

Naphthalene

Concen: 0.338 ug/l

RT: 13.780 min Scan# 2082

Delta R.T. 0.006 min

Lab File: VX044825.D

Acq: 03 Feb 2025 19:14

Tgt Ion:128 Resp: 2206

Ion Ratio Lower Upper

128 100

127 9.2 10.3 15.5#

129 8.0 8.7 13.1#

