

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072624\
 Data File : VX042560.D
 Acq On : 25 Jul 2024 11:57
 Operator : JC/MD
 Sample : P3355-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 26 01:34:58 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071924W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 19 11:30:14 2024
 Response via : Initial Calibration

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

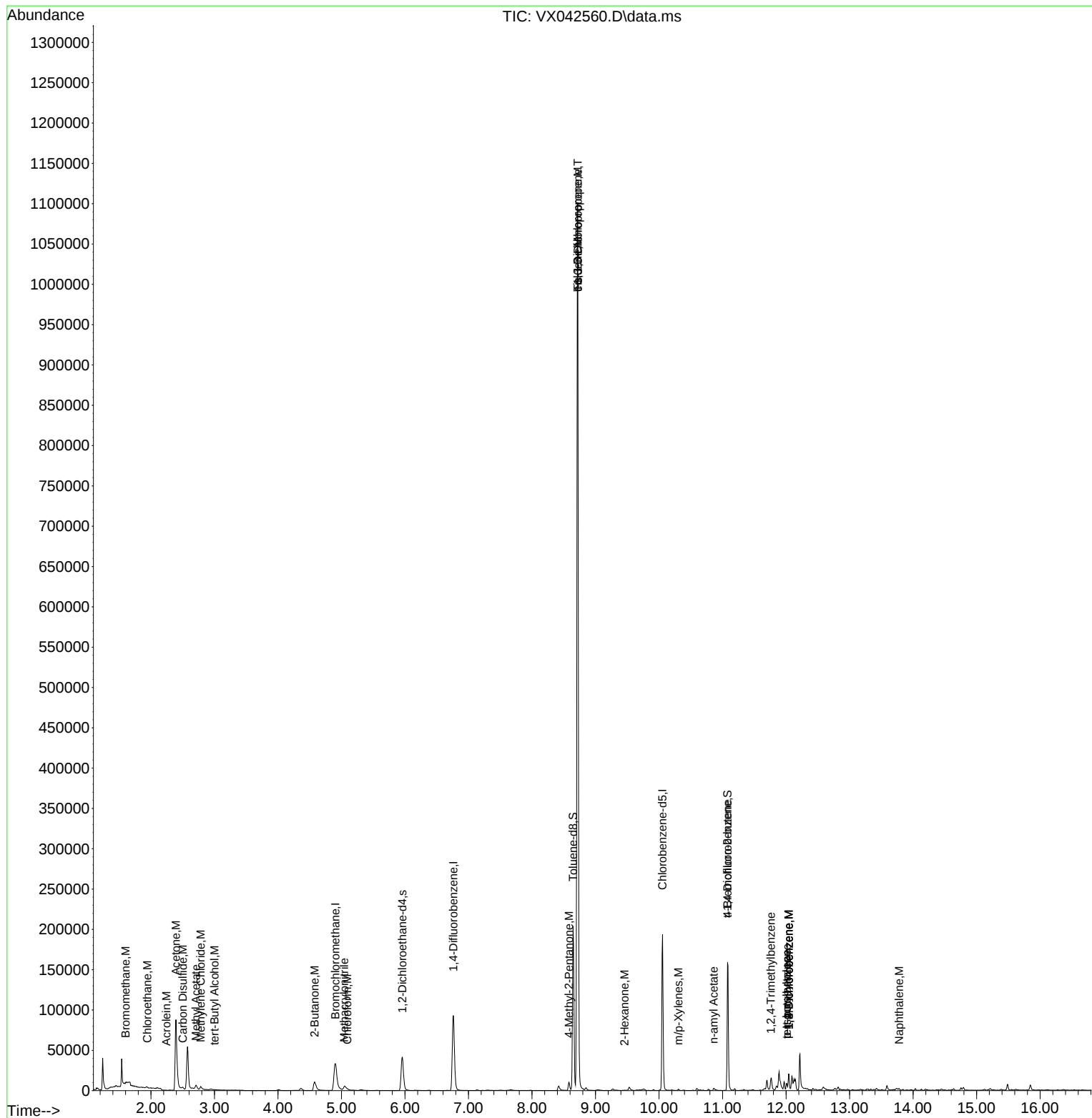
Internal Standards						
1) Bromochloromethane	4.904	128	18809	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	104520	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	96633	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	41336	30.681	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	102.267%
60) 4-Bromofluorobenzene	11.079	95	41804	27.804	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	92.667%
63) Toluene-d8	8.647	98	124149	29.575	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.567%
Target Compounds						
					Qvalue	
5) Bromomethane	1.599	94	172	0.293	ug/l #	71
6) Chloroethane	1.941	64	503	0.997	ug/l #	62
12) Methyl Acetate	2.709	43	5689	3.156	ug/l	91
13) Acrolein	2.239	56	114	0.503	ug/l	97
15) Acetone	2.392	58	32022	159.044	ug/l	93
16) Carbon Disulfide	2.502	76	2854	1.316	ug/l #	91
18) Methylene Chloride	2.782	84	1829	1.460	ug/l	91
23) tert-Butyl Alcohol	3.001	59	231	0.895	ug/l #	100
25) Chloroform	5.093	83	847	0.393	ug/l #	75
30) 2-Butanone	4.574	43	21202	23.300	ug/l #	94
35) Methacrylonitrile	5.044	41	702	0.782	ug/l #	44
47) n-amyl Acetate	10.860	43	849	0.377	ug/l #	23
48) t-1,3-Dichloropropene	8.720	75	4959	3.340	ug/l #	1
49) cis-1,3-Dichloropropene	8.720	75	4959	2.972	ug/l #	1
58) 4-Methyl-2-Pentanone	8.580	43	6532	3.835	ug/l	99
59) 2-Hexanone	9.458	43	343	0.257	ug/l #	49
62) Toluene	8.720	91	750509	155.347	ug/l	100
67) m/p-Xylenes	10.305	106	527	0.250	ug/l	97
77) t-1,4-Dichloro-2-butene	11.079	75	20197	37.735	ug/l #	7
79) tert-butylbenzene	12.012	119	4041	0.848	ug/l	69
80) 1,2,4-Trimethylbenzene	11.762	105	1871	0.417	ug/l	57
82) p-Isopropyltoluene	12.012	119	4041	0.829	ug/l	94
83) 1,3-Dichlorobenzene	12.043	146	4202	1.533	ug/l	95
84) 1,4-Dichlorobenzene	12.043	146	4202	1.543	ug/l	95
87) 1,2-Dichlorobenzene	12.043	146	4202	1.516	ug/l	97
91) Naphthalene	13.780	128	1459	0.261	ug/l	96

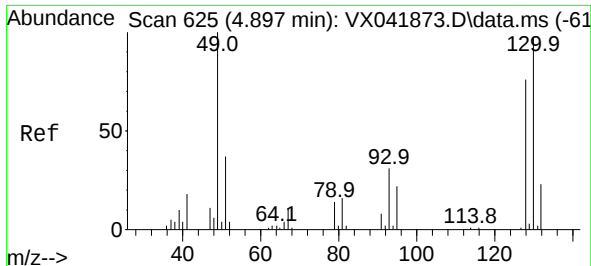
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072624\
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Misc : 5.0mL/MSVOA_X/WATER
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Instrument :
MSVOA_X
ClientSampleId :

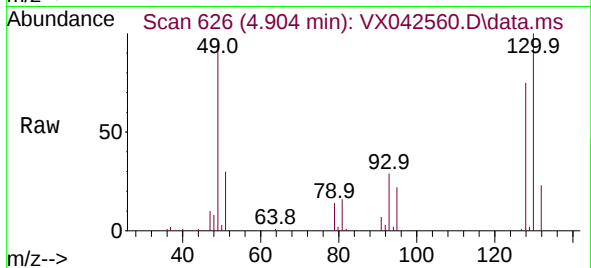
Quant Time: Jul 26 01:34:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071924W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Jul 19 11:30:14 2024
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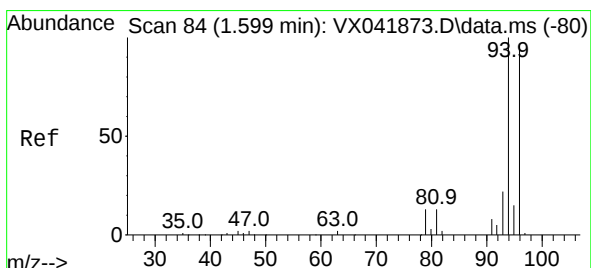
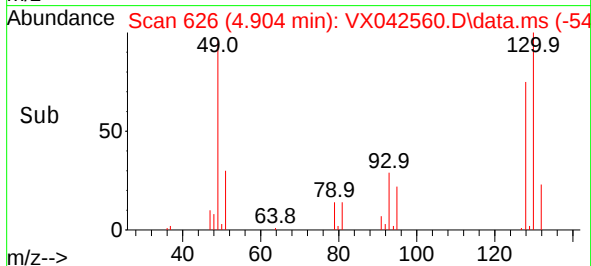
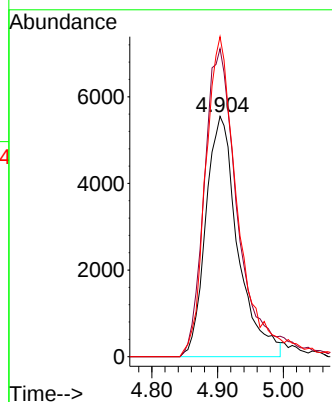


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.904 min Scan# 61
Delta R.T. 0.007 min
Lab File: VX042560.D
Acq: 25 Jul 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :

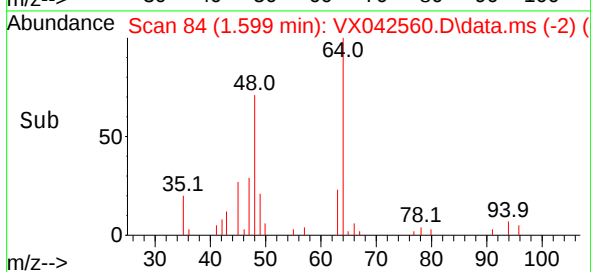
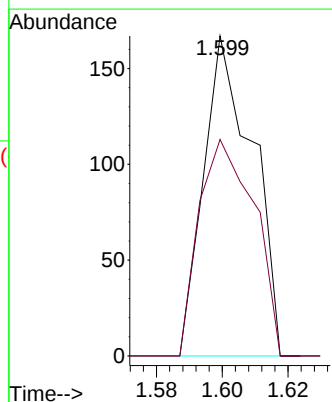
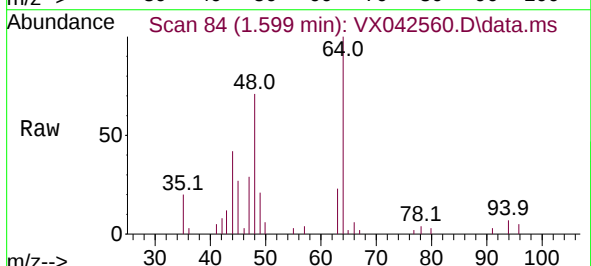


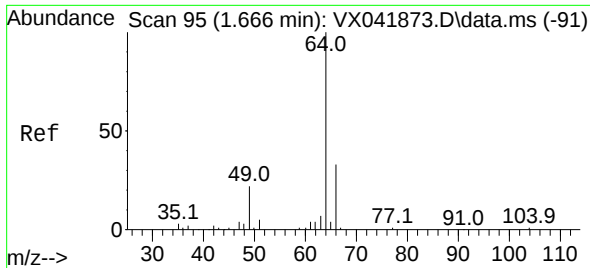
Tgt Ion:128 Resp: 18809
Ion Ratio Lower Upper
128 100
49 130.2 0.0 338.5
130 125.7 0.0 324.5



#5
Bromomethane
Concen: 0.293 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.000 min
Lab File: VX042560.D
Acq: 25 Jul 2024 11:57

Tgt Ion: 94 Resp: 172
Ion Ratio Lower Upper
94 100
96 67.7 76.6 115.0#

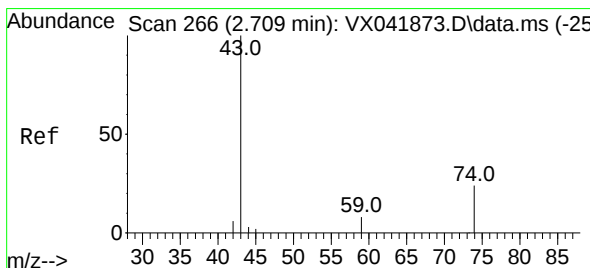
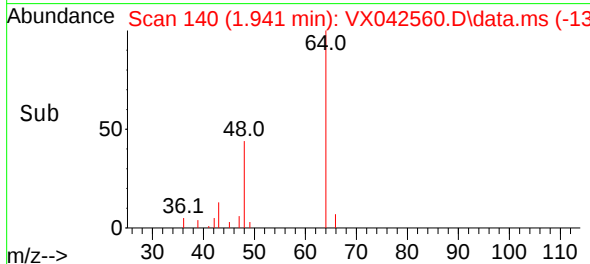
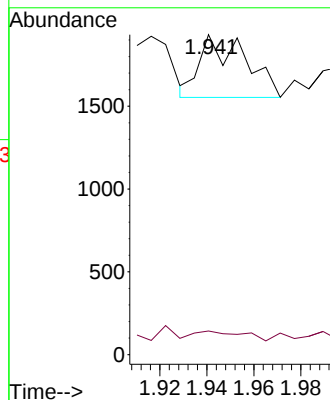
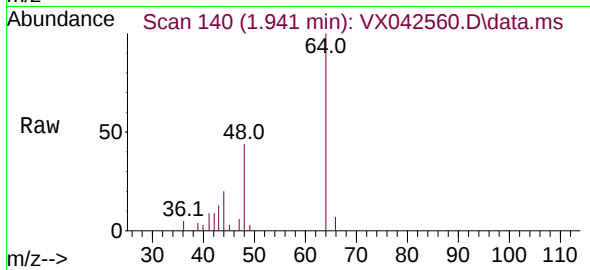




#6
Chloroethane
Concen: 0.997 ug/l
RT: 1.941 min Scan# 14
Delta R.T. 0.274 min
Lab File: VX042560.D
Acq: 25 Jul 2024 11:57

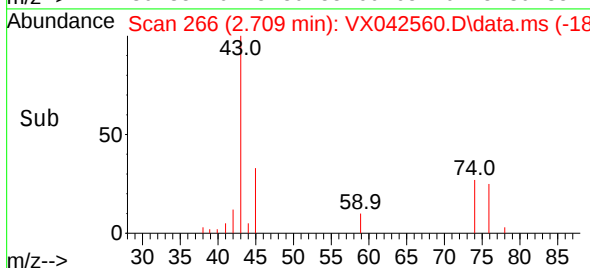
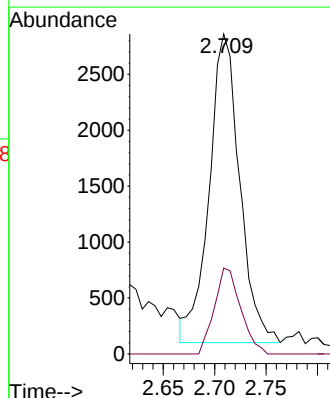
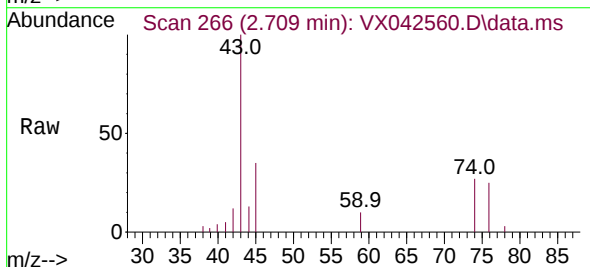
Instrument :
MSVOA_X
ClientSampleId :

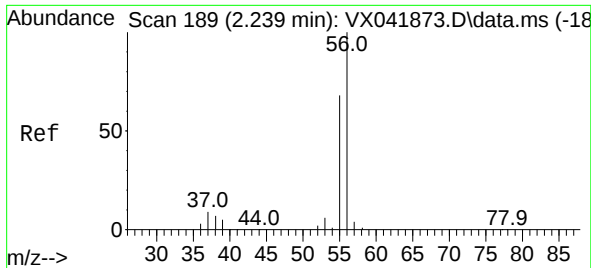
Tgt Ion: 64 Resp: 503
Ion Ratio Lower Upper
64 100
66 11.6 26.4 39.6#



#12
Methyl Acetate
Concen: 3.156 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.000 min
Lab File: VX042560.D
Acq: 25 Jul 2024 11:57

Tgt Ion: 43 Resp: 5689
Ion Ratio Lower Upper
43 100
74 29.0 19.4 29.2

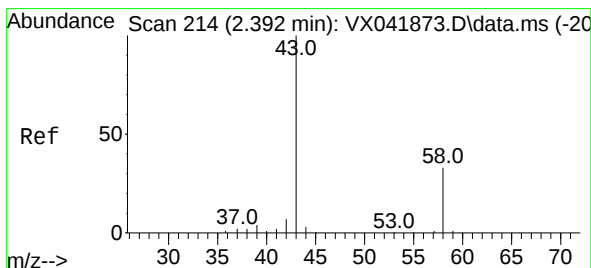
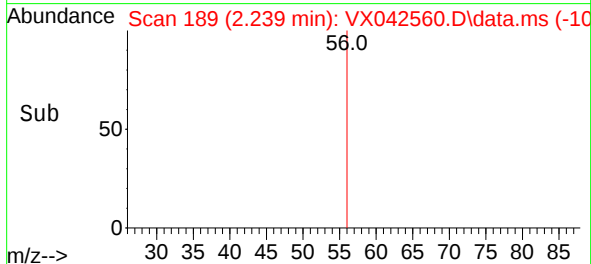
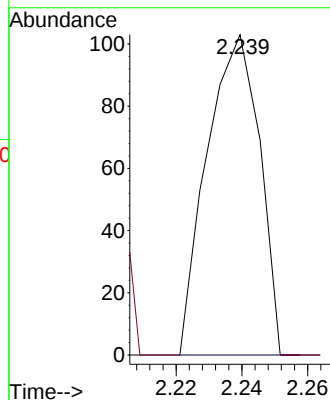
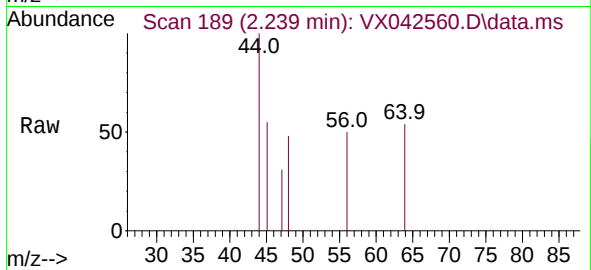




#13
Acrolein
Concen: 0.503 ug/l
RT: 2.239 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX042560.D
Acq: 25 Jul 2024 11:57

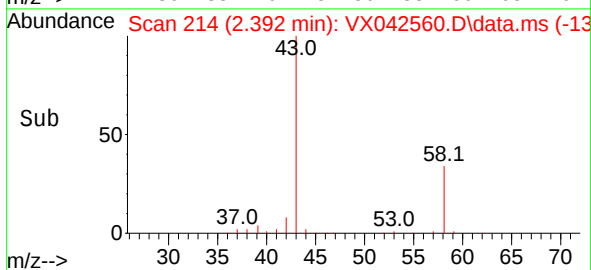
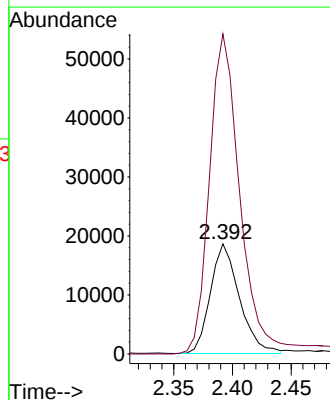
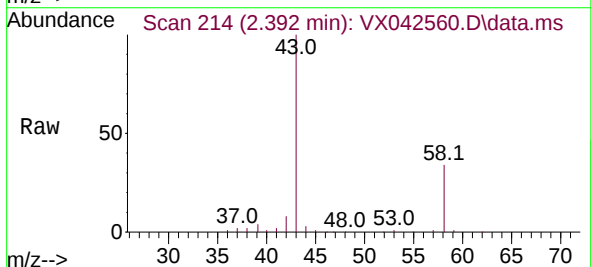
Instrument :
MSVOA_X
ClientSampleId :

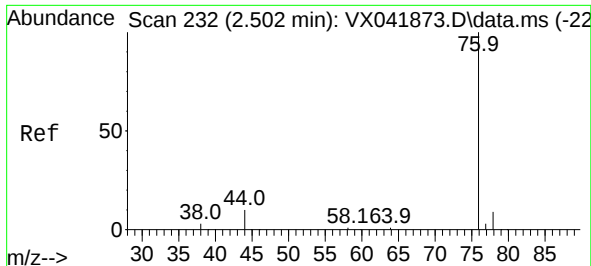
Tgt Ion: 56 Resp: 114
Ion Ratio Lower Upper
56 100
55 71.9 55.4 83.0



#15
Acetone
Concen: 159.044 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX042560.D
Acq: 25 Jul 2024 11:57

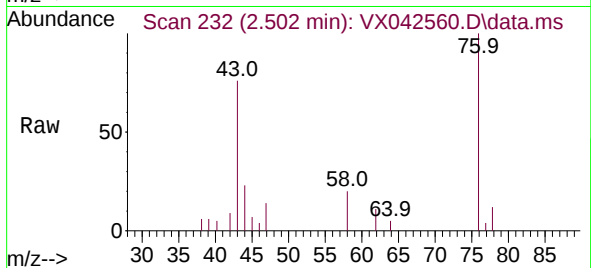
Tgt Ion: 58 Resp: 32022
Ion Ratio Lower Upper
58 100
43 291.0 243.4 365.2



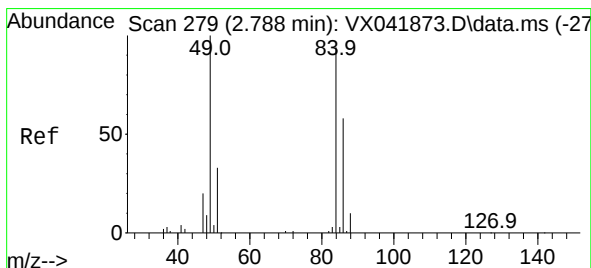
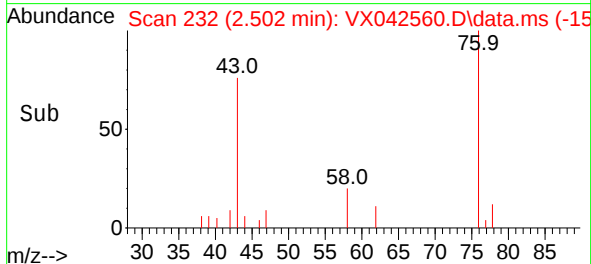
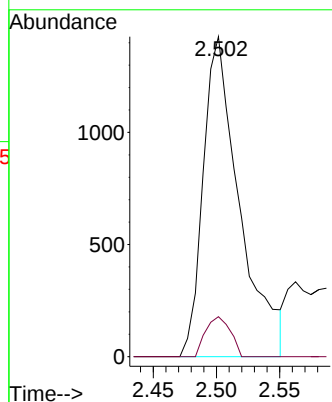


#16
Carbon Disulfide
Concen: 1.316 ug/l
RT: 2.502 min Scan# 24
Delta R.T. 0.000 min
Lab File: VX042560.D
Acq: 25 Jul 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :

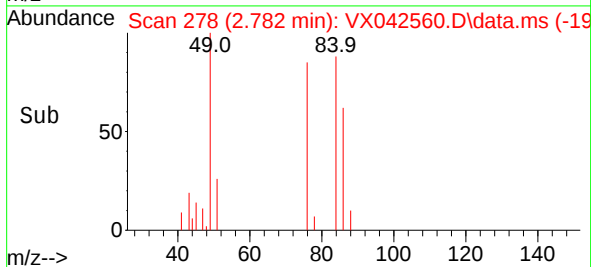
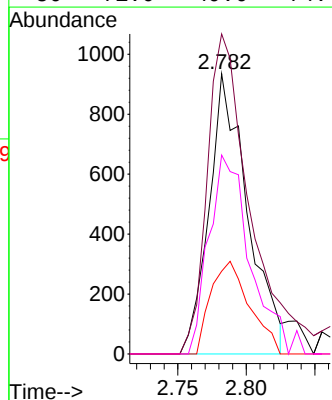
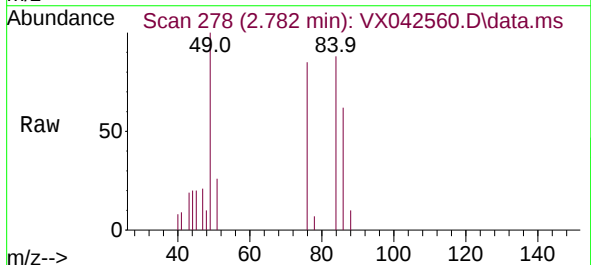


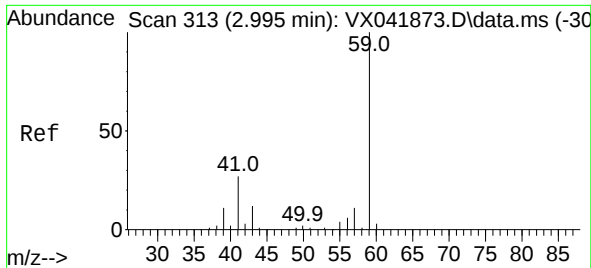
Tgt Ion: 76 Resp: 2854
Ion Ratio Lower Upper
76 100
78 12.5 7.3 10.9#



#18
Methylene Chloride
Concen: 1.460 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.006 min
Lab File: VX042560.D
Acq: 25 Jul 2024 11:57

Tgt Ion: 84 Resp: 1829
Ion Ratio Lower Upper
84 100
49 114.2 85.3 127.9
51 29.5 28.5 42.7
86 71.0 49.6 74.4





#23

tert-Butyl Alcohol

Concen: 0.895 ug/l

RT: 3.001 min Scan# 313

Delta R.T. 0.006 min

Lab File: VX042560.D

Acq: 25 Jul 2024 11:57

Instrument :

MSVOA_X

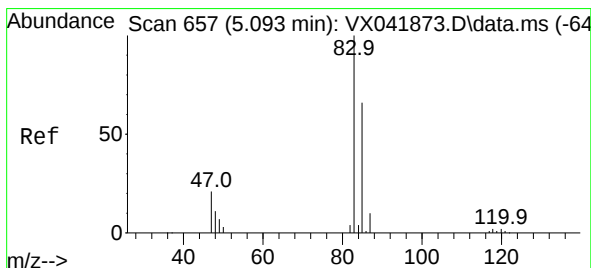
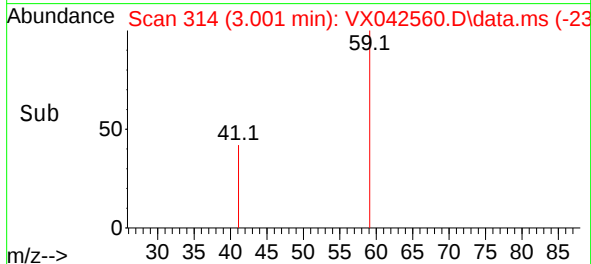
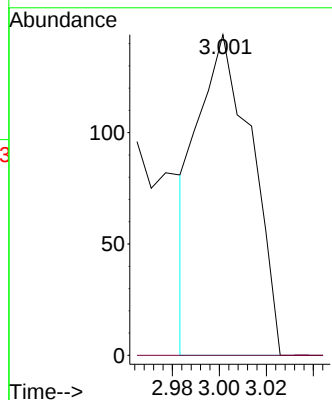
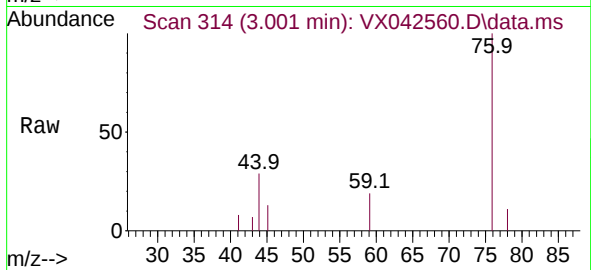
ClientSampleId :

Tgt Ion: 59 Resp: 231

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0



#25

Chloroform

Concen: 0.393 ug/l

RT: 5.093 min Scan# 657

Delta R.T. 0.000 min

Lab File: VX042560.D

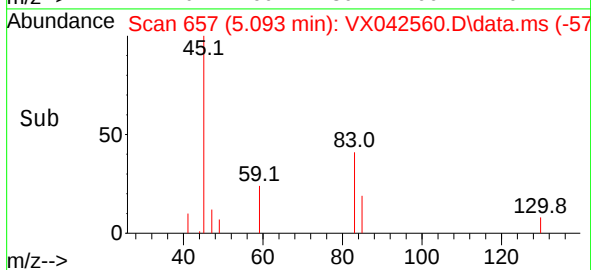
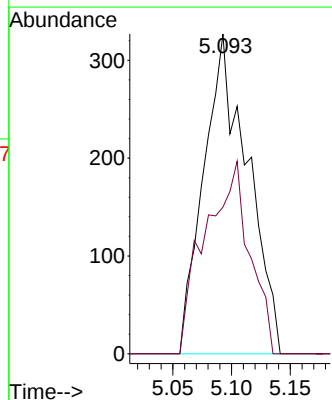
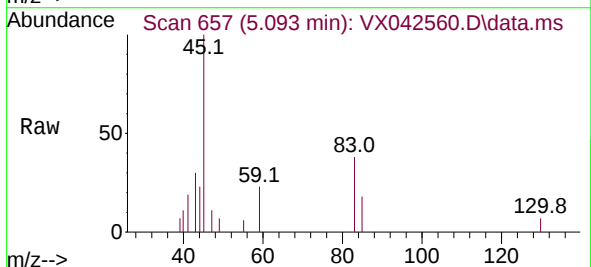
Acq: 25 Jul 2024 11:57

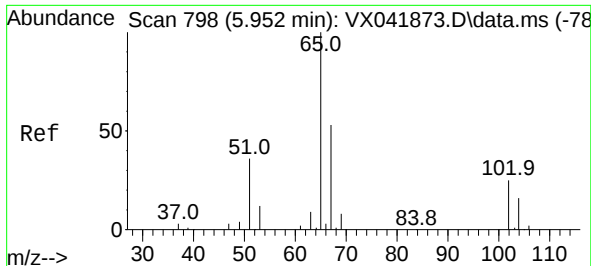
Tgt Ion: 83 Resp: 847

Ion Ratio Lower Upper

83 100

85 45.9 52.7 79.1#

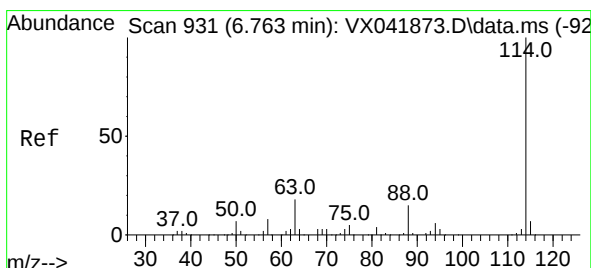
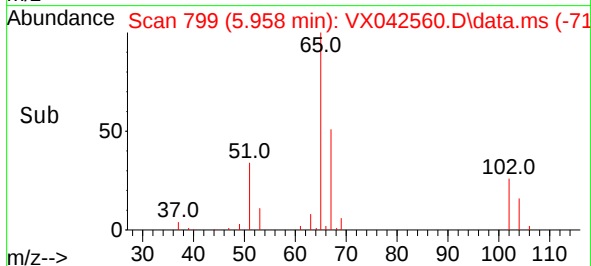
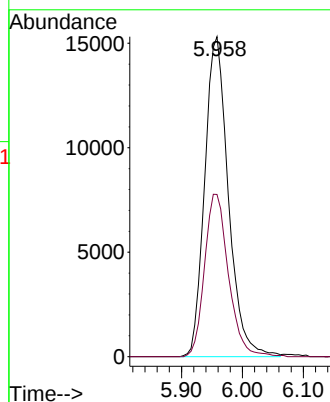
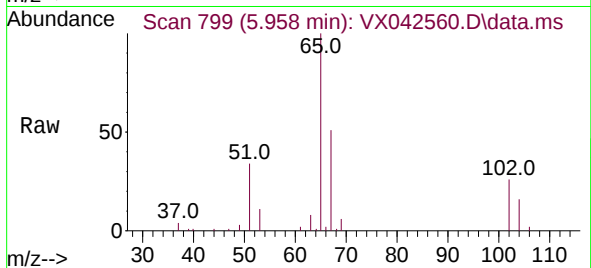




#27
1,2-Dichloroethane-d4
Concen: 30.681 ug/l
RT: 5.958 min Scan# 798
Delta R.T. 0.006 min
Lab File: VX042560.D
Acq: 25 Jul 2024 11:57

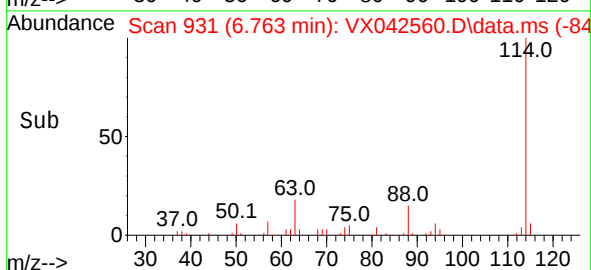
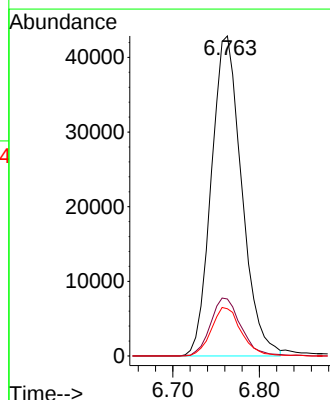
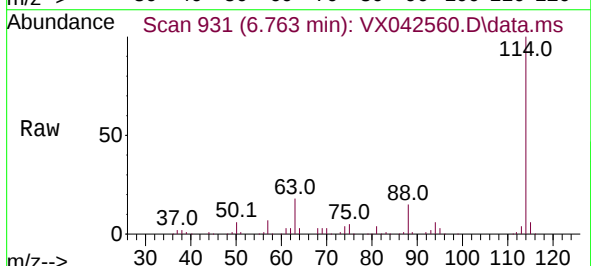
Instrument :
MSVOA_X
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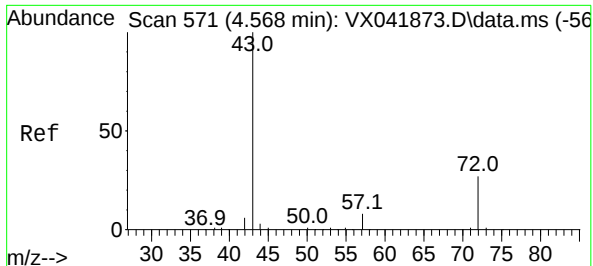
Tgt Ion: 65 Resp: 41336
Ion Ratio Lower Upper
65 100
67 51.3 43.4 65.0



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. 0.000 min
Lab File: VX042560.D
Acq: 25 Jul 2024 11:57

Tgt Ion:114 Resp: 104520
Ion Ratio Lower Upper
114 100
63 18.2 14.6 21.8
88 14.8 11.8 17.8





#30

2-Butanone

Concen: 23.300 ug/l

RT: 4.574 min Scan# 51

Delta R.T. 0.006 min

Lab File: VX042560.D

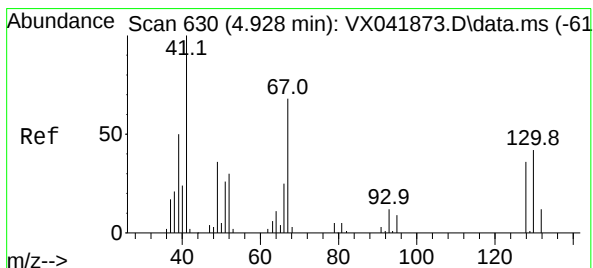
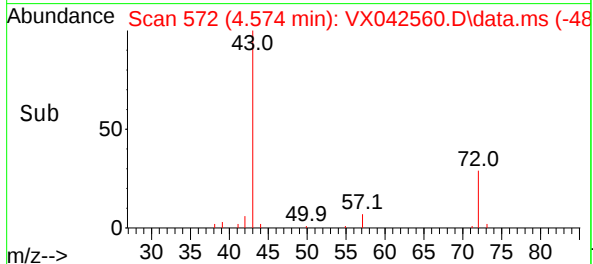
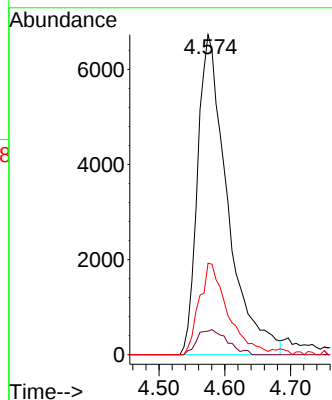
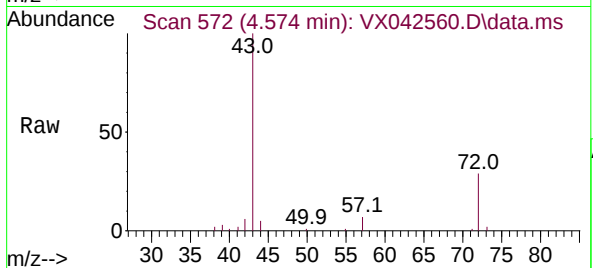
Acq: 25 Jul 2024 11:57

Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion:	43	Resp:	21202
Ion Ratio	Lower	Upper	
43	100		
57	0.0	6.5	9.7#
72	27.3	22.0	33.0



#35

Methacrylonitrile

Concen: 0.782 ug/l

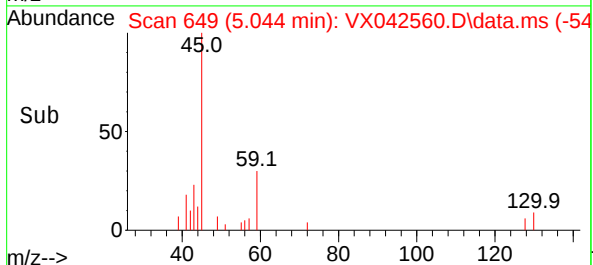
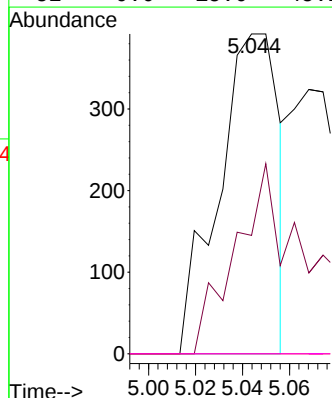
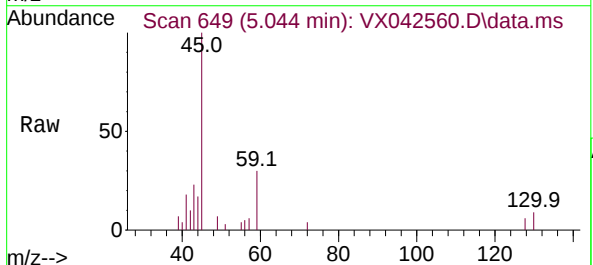
RT: 5.044 min Scan# 649

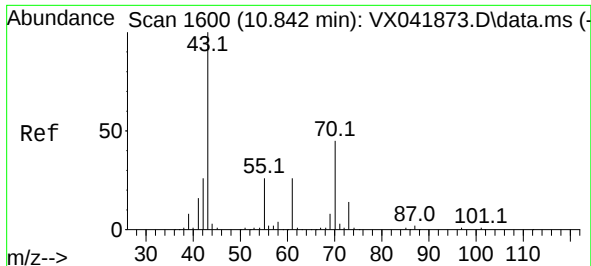
Delta R.T. 0.116 min

Lab File: VX042560.D

Acq: 25 Jul 2024 11:57

Tgt Ion:	41	Resp:	702
Ion Ratio	Lower	Upper	
41	100		
39	37.0	25.2	75.6
67	0.0	34.2	102.5#
52	0.0	15.0	45.1#





#47

n-amy1 Acetate

Concen: 0.377 ug/l

RT: 10.860 min Scan# 1

Delta R.T. 0.018 min

Lab File: VX042560.D

Acq: 25 Jul 2024 11:57

Instrument :

MSVOA_X

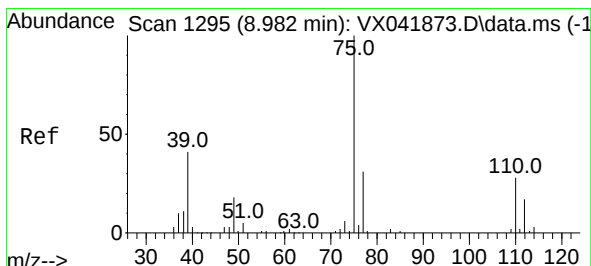
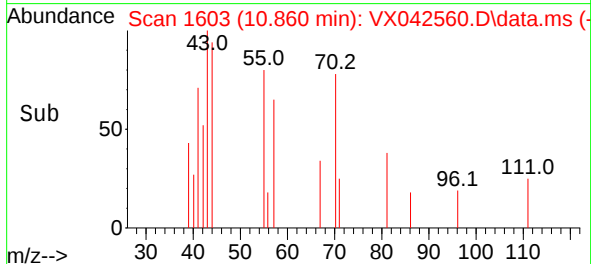
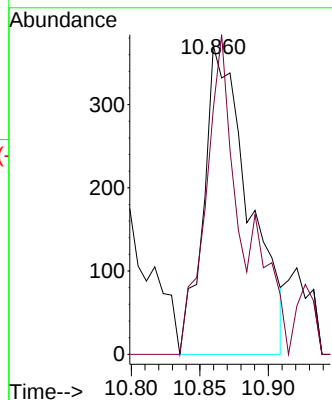
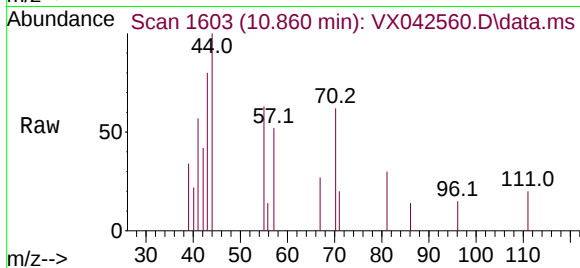
ClientSampleId :

Tgt Ion: 43 Resp: 849

Ion Ratio Lower Upper

43 100

55 65.5 21.0 31.4#



#48

t-1,3-Dichloropropene

Concen: 3.340 ug/l

RT: 8.720 min Scan# 1252

Delta R.T. -0.262 min

Lab File: VX042560.D

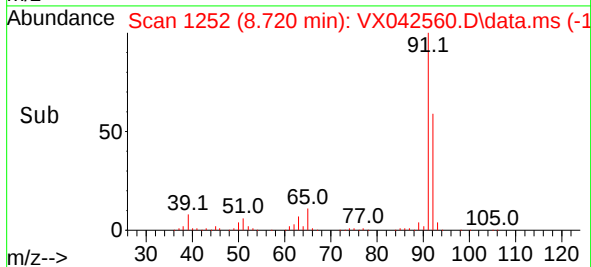
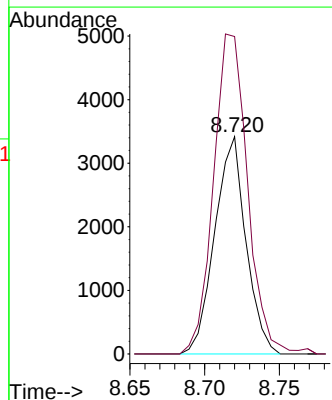
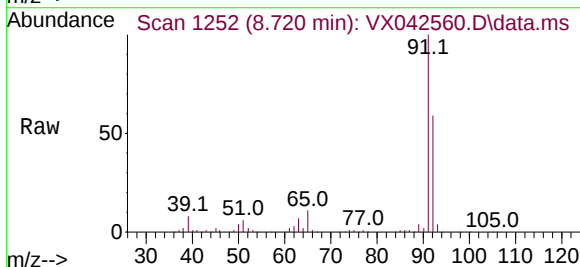
Acq: 25 Jul 2024 11:57

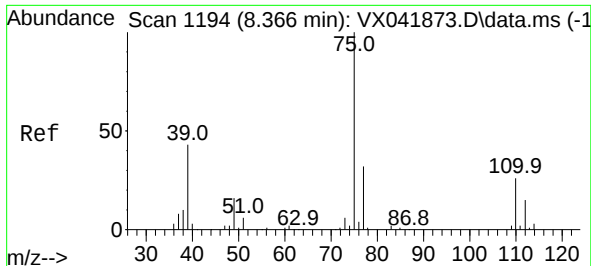
Tgt Ion: 75 Resp: 4959

Ion Ratio Lower Upper

75 100

77 146.1 25.1 37.7#





#49

cis-1,3-Dichloropropene

Concen: 2.972 ug/l

RT: 8.720 min Scan# 1194

Delta R.T. 0.354 min

Lab File: VX042560.D

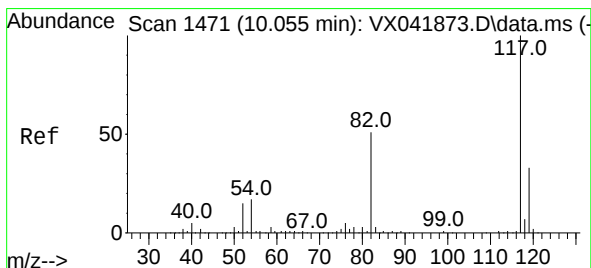
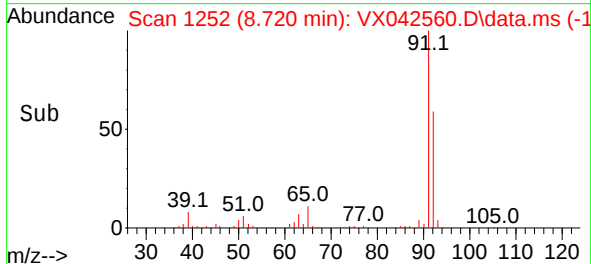
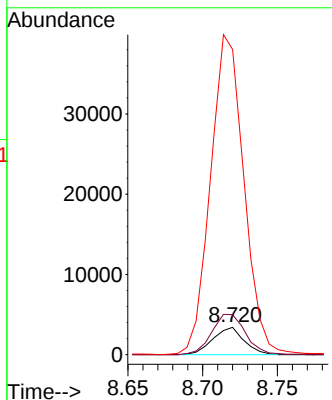
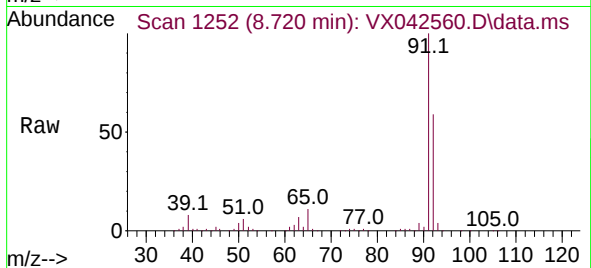
Acq: 25 Jul 2024 11:57

Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion: 75 Resp: 4959
 Ion Ratio Lower Upper
 75 100
 77 146.1 25.8 38.8#
 39 1107.9 34.8 52.2#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

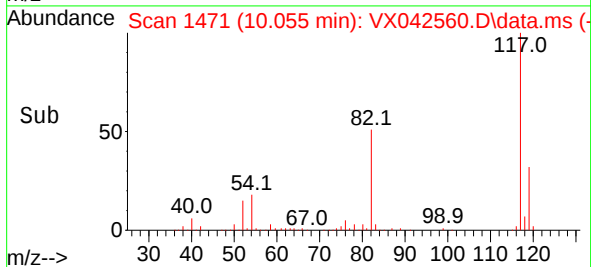
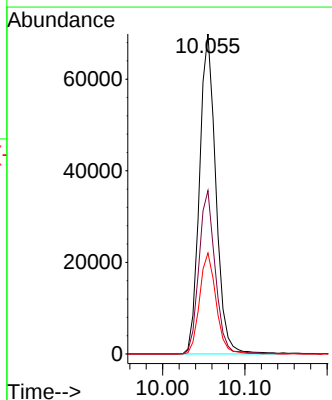
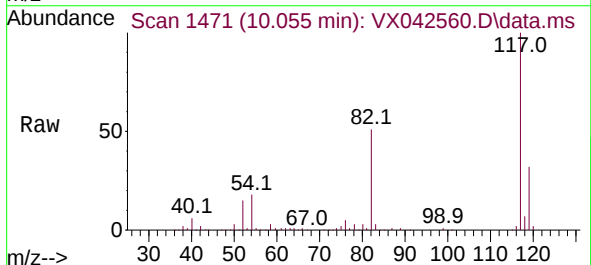
RT: 10.055 min Scan# 1471

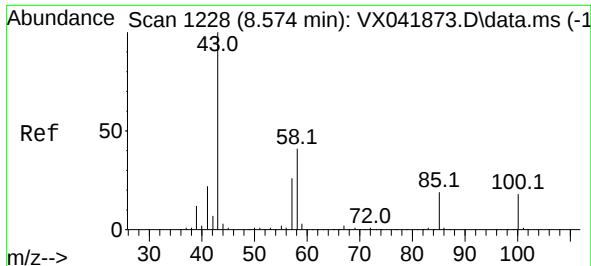
Delta R.T. 0.000 min

Lab File: VX042560.D

Acq: 25 Jul 2024 11:57

Tgt Ion: 117 Resp: 96633
 Ion Ratio Lower Upper
 117 100
 82 50.4 41.1 61.7
 119 31.7 26.1 39.1

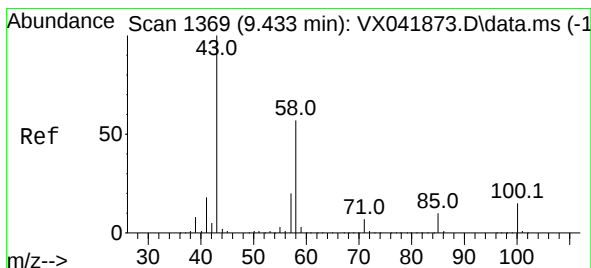
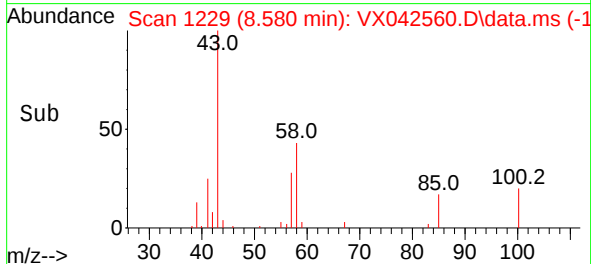
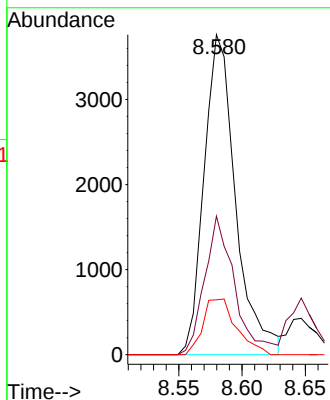
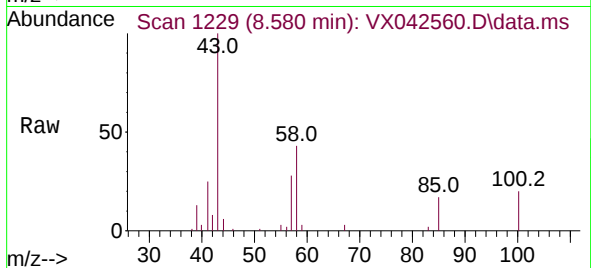




#58
4-Methyl-2-Pentanone
Concen: 3.835 ug/l
RT: 8.580 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX042560.D
Acq: 25 Jul 2024 11:57

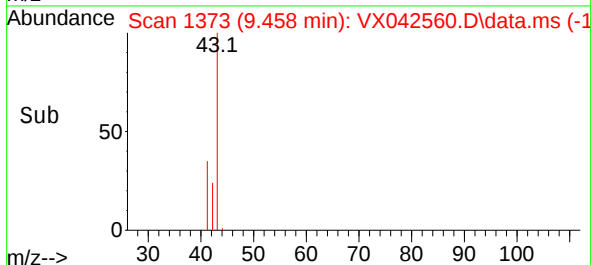
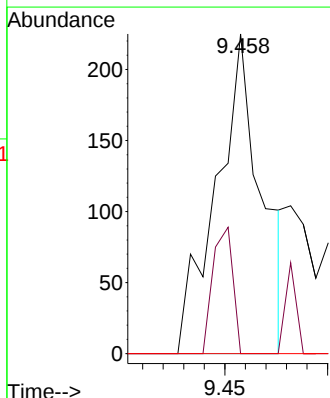
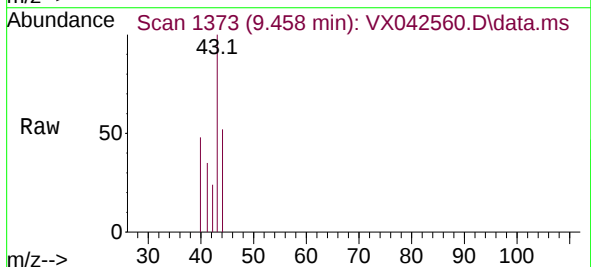
Instrument :
MSVOA_X
ClientSampleId :

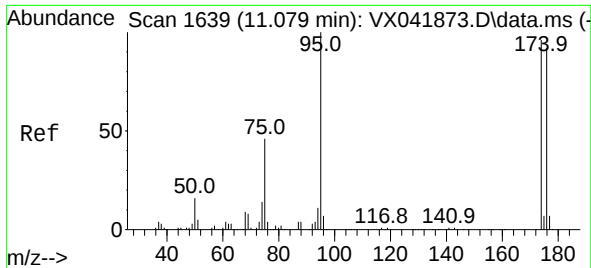
Tgt Ion:	43	Resp:	6532
Ion	Ratio	Lower	Upper
43	100		
58	41.4	33.2	49.8
85	18.5	15.5	23.3



#59
2-Hexanone
Concen: 0.257 ug/l
RT: 9.458 min Scan# 1373
Delta R.T. 0.024 min
Lab File: VX042560.D
Acq: 25 Jul 2024 11:57

Tgt Ion:	43	Resp:	343
Ion	Ratio	Lower	Upper
43	100		
58	17.5	46.0	69.0#
57	0.0	15.8	23.6#

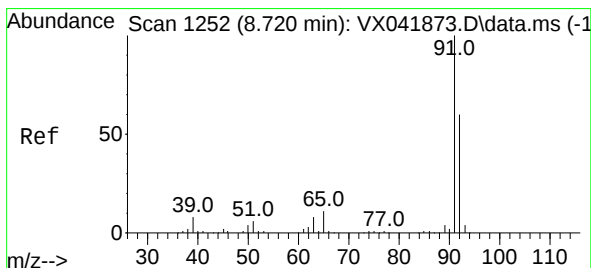
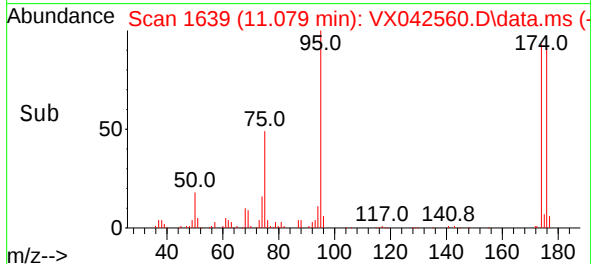
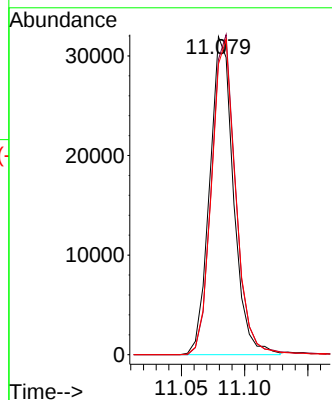
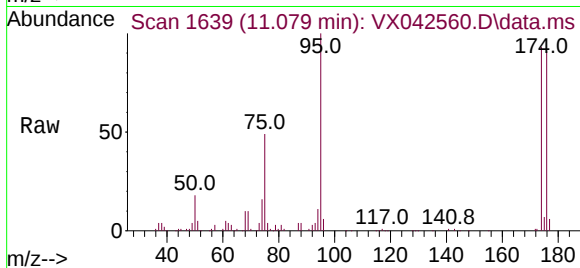




#60
4-Bromofluorobenzene
Concen: 27.804 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX042560.D
Acq: 25 Jul 2024 11:57

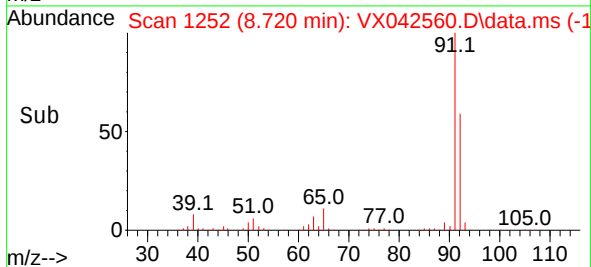
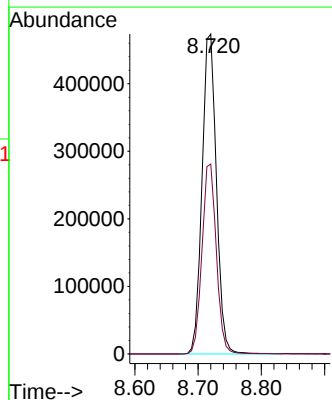
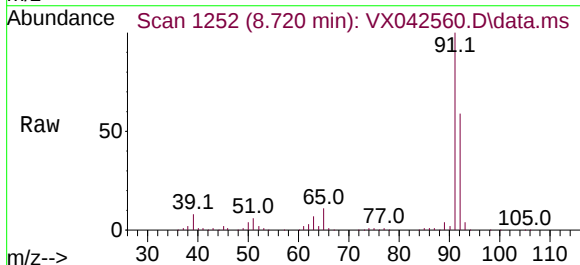
Instrument :
MSVOA_X
ClientSampleId :

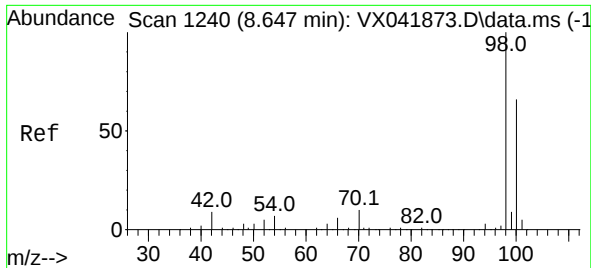
Tgt Ion: 95 Resp: 41804
Ion Ratio Lower Upper
95 100
174 100.9 78.9 118.3
176 100.0 77.1 115.7



#62
Toluene
Concen: 155.347 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX042560.D
Acq: 25 Jul 2024 11:57

Tgt Ion: 91 Resp: 750509
Ion Ratio Lower Upper
91 100
92 59.2 47.4 71.2

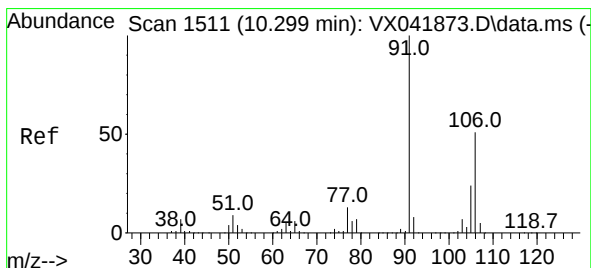
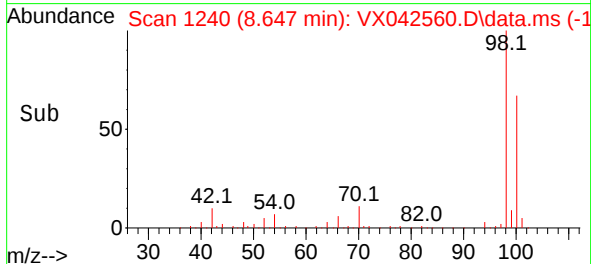
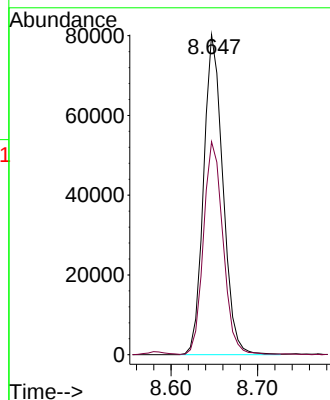
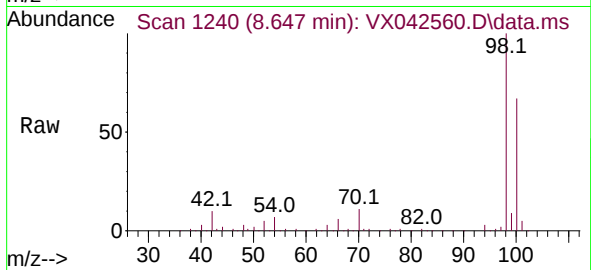




#63
Toluene-d8
Concen: 29.575 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX042560.D
Acq: 25 Jul 2024 11:57

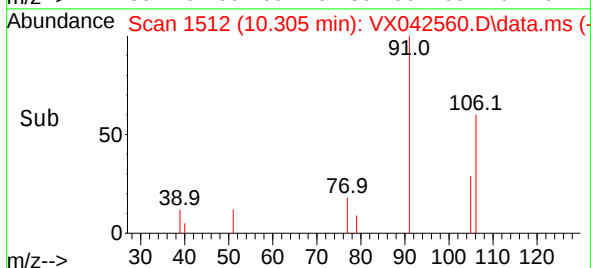
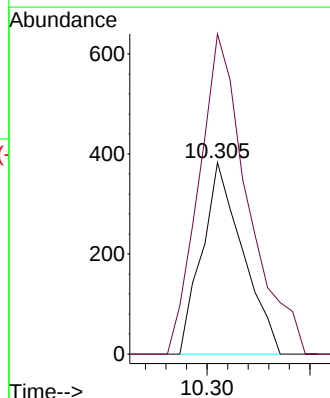
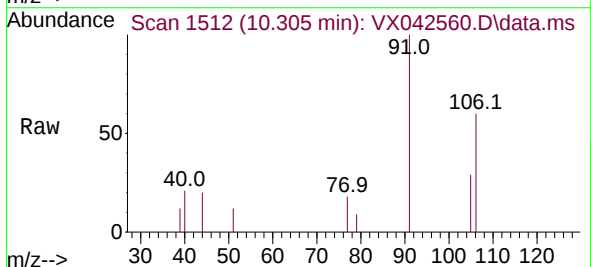
Instrument :
MSVOA_X
ClientSampleId :

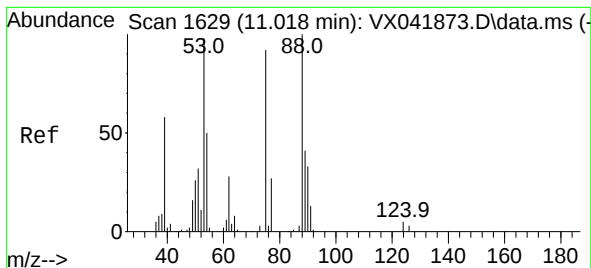
Tgt Ion: 98 Resp: 124149
Ion Ratio Lower Upper
98 100
100 67.5 52.7 79.1



#67
m/p-Xylenes
Concen: 0.250 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.006 min
Lab File: VX042560.D
Acq: 25 Jul 2024 11:57

Tgt Ion:106 Resp: 527
Ion Ratio Lower Upper
106 100
91 200.2 157.0 235.6

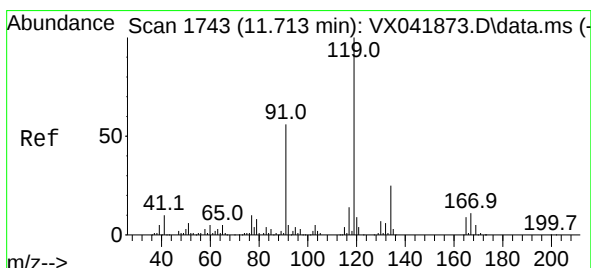
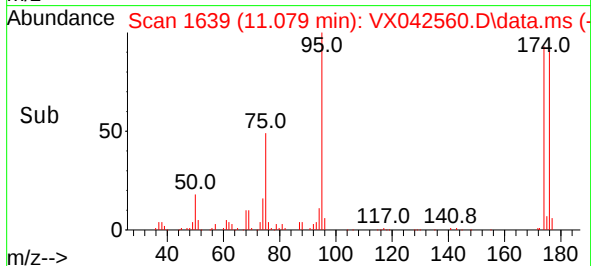
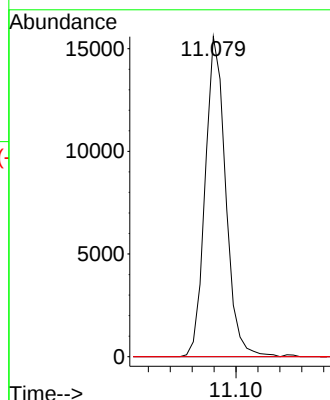
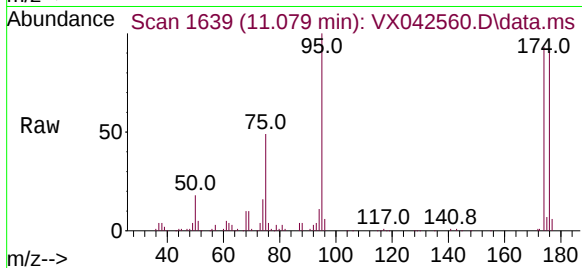




#77
t-1,4-Dichloro-2-butene
Concen: 37.735 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX042560.D
Acq: 25 Jul 2024 11:57

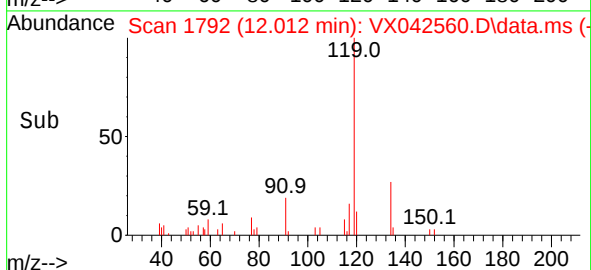
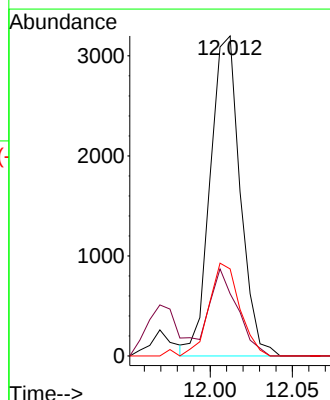
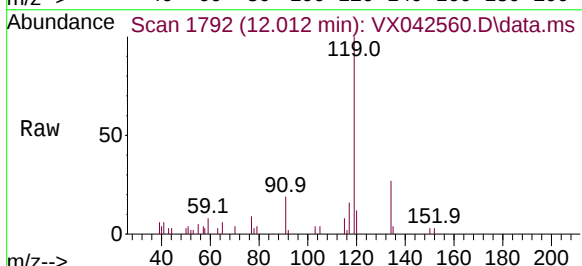
Instrument :
MSVOA_X
ClientSampleId :

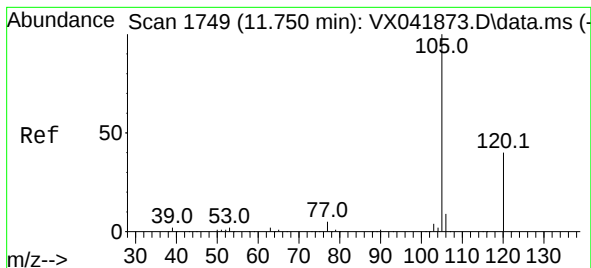
Tgt Ion: 75 Resp: 20197
Ion Ratio Lower Upper
75 100
53 0.0 53.4 160.2#
89 0.0 22.5 67.5#



#79
tert-butylbenzene
Concen: 0.848 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.299 min
Lab File: VX042560.D
Acq: 25 Jul 2024 11:57

Tgt Ion: 119 Resp: 4041
Ion Ratio Lower Upper
119 100
91 24.4 0.0 106.0
134 29.7 0.0 49.4





#80

1,2,4-Trimethylbenzene

Concen: 0.417 ug/l

RT: 11.762 min Scan# 1751

Delta R.T. 0.012 min

Lab File: VX042560.D

Acq: 25 Jul 2024 11:57

Instrument :

MSVOA_X

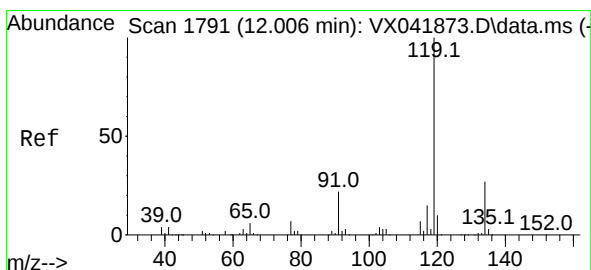
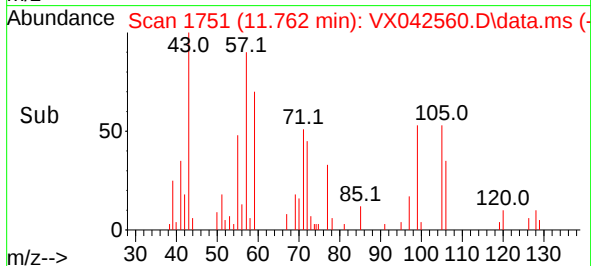
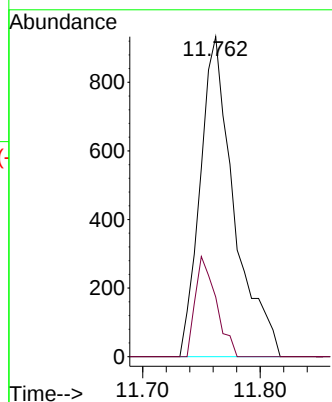
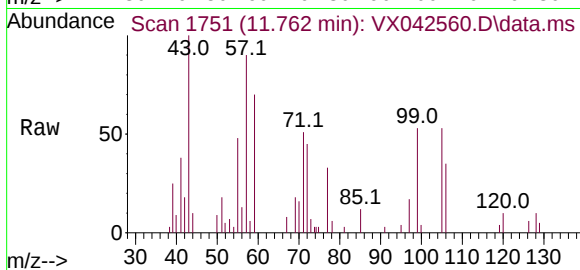
ClientSampleId :

Tgt Ion:105 Resp: 1871

Ion Ratio Lower Upper

105 100

120 19.3 0.0 96.2



#82

p-Isopropyltoluene

Concen: 0.829 ug/l

RT: 12.012 min Scan# 1792

Delta R.T. 0.006 min

Lab File: VX042560.D

Acq: 25 Jul 2024 11:57

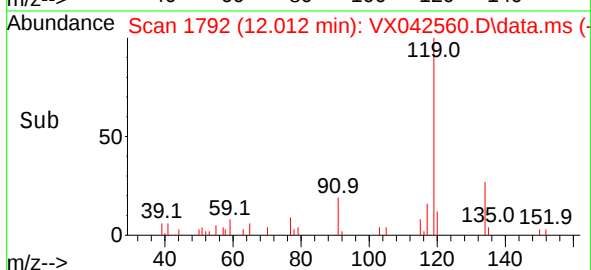
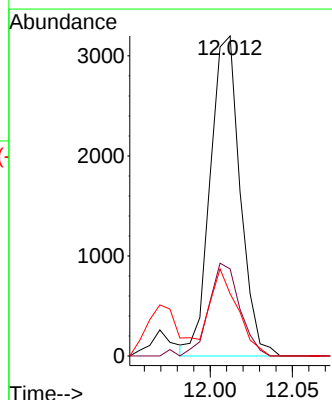
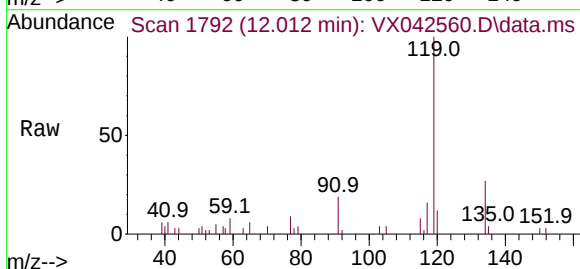
Tgt Ion:119 Resp: 4041

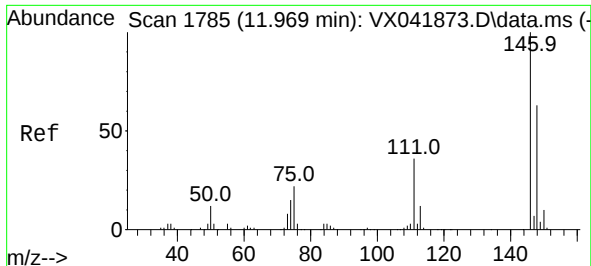
Ion Ratio Lower Upper

119 100

134 29.7 0.0 54.0

91 24.4 0.0 42.2





#83

1,3-Dichlorobenzene

Concen: 1.533 ug/l

RT: 12.043 min Scan# 1797

Delta R.T. 0.073 min

Lab File: VX042560.D

Acq: 25 Jul 2024 11:57

Instrument :

MSVOA_X

ClientSampleId :

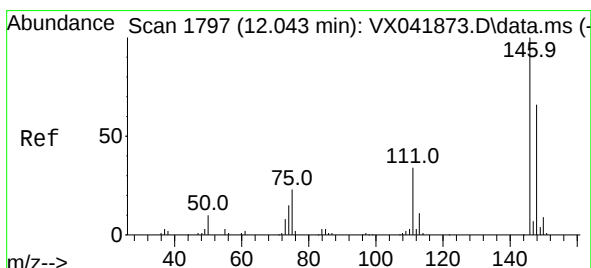
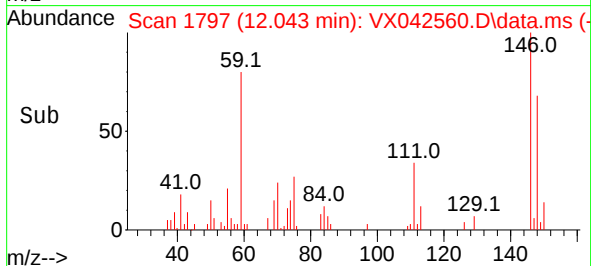
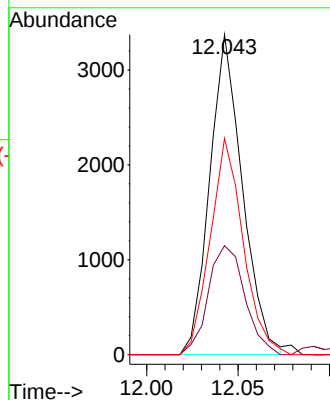
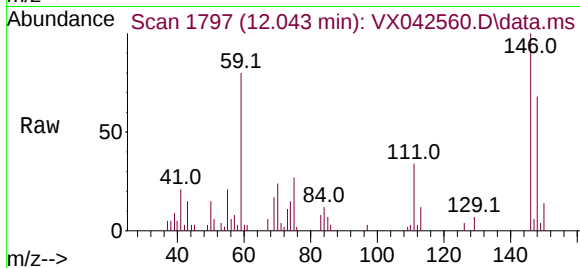
Tgt Ion:146 Resp: 4202

Ion Ratio Lower Upper

146 100

111 38.1 18.0 54.0

148 68.2 31.9 95.7



#84

1,4-Dichlorobenzene

Concen: 1.543 ug/l

RT: 12.043 min Scan# 1797

Delta R.T. 0.000 min

Lab File: VX042560.D

Acq: 25 Jul 2024 11:57

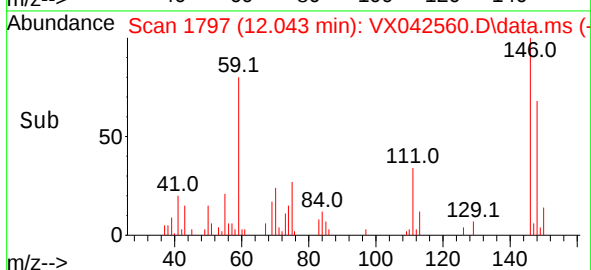
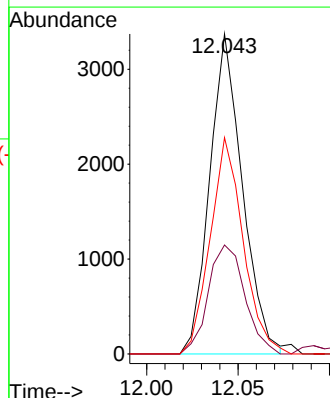
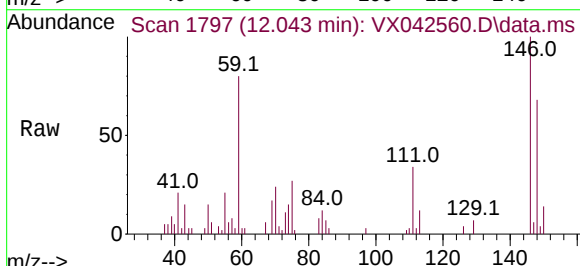
Tgt Ion:146 Resp: 4202

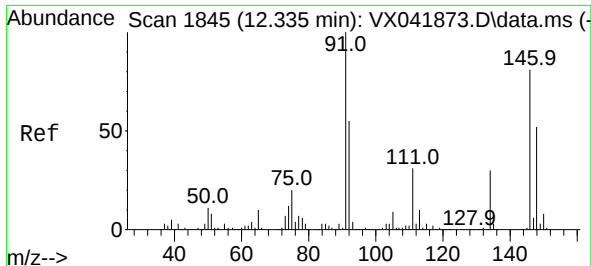
Ion Ratio Lower Upper

146 100

111 38.1 17.4 52.3

148 68.2 32.3 96.9





#87

1,2-Dichlorobenzene

Concen: 1.516 ug/l

RT: 12.043 min Scan# 1

Delta R.T. -0.293 min

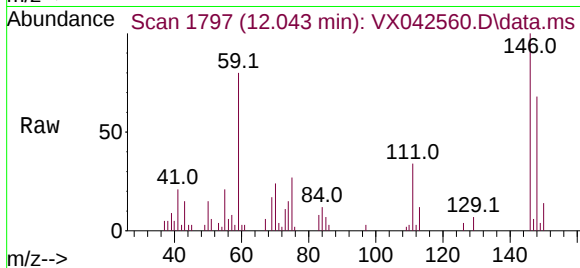
Lab File: VX042560.D

Acq: 25 Jul 2024 11:57

Instrument :

MSVOA_X

ClientSampleId :



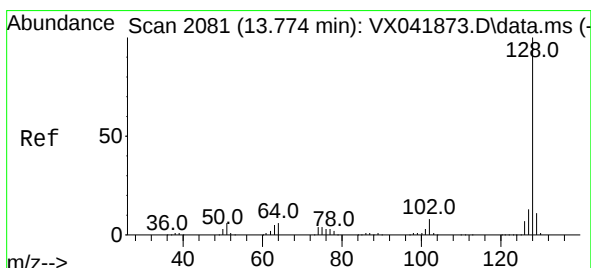
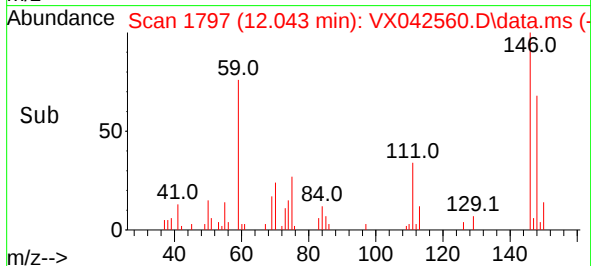
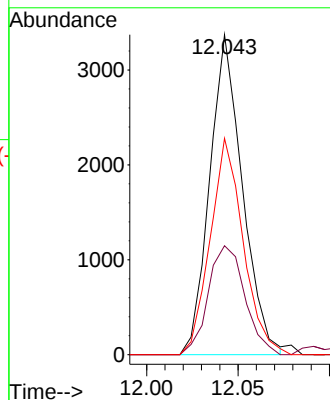
Tgt Ion:146 Resp: 4202

Ion Ratio Lower Upper

146 100

111 38.1 19.1 57.3

148 68.2 32.4 97.0



#91

Naphthalene

Concen: 0.261 ug/l

RT: 13.780 min Scan# 2082

Delta R.T. 0.006 min

Lab File: VX042560.D

Acq: 25 Jul 2024 11:57

Tgt Ion:128 Resp: 1459

Ion Ratio Lower Upper

128 100

127 15.4 10.4 15.6

129 11.7 8.7 13.1

