

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072624\
 Data File : VX042559.D
 Acq On : 25 Jul 2024 11:34
 Operator : JC/MD
 Sample : P3321-01RE
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 26 01:34:29 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)

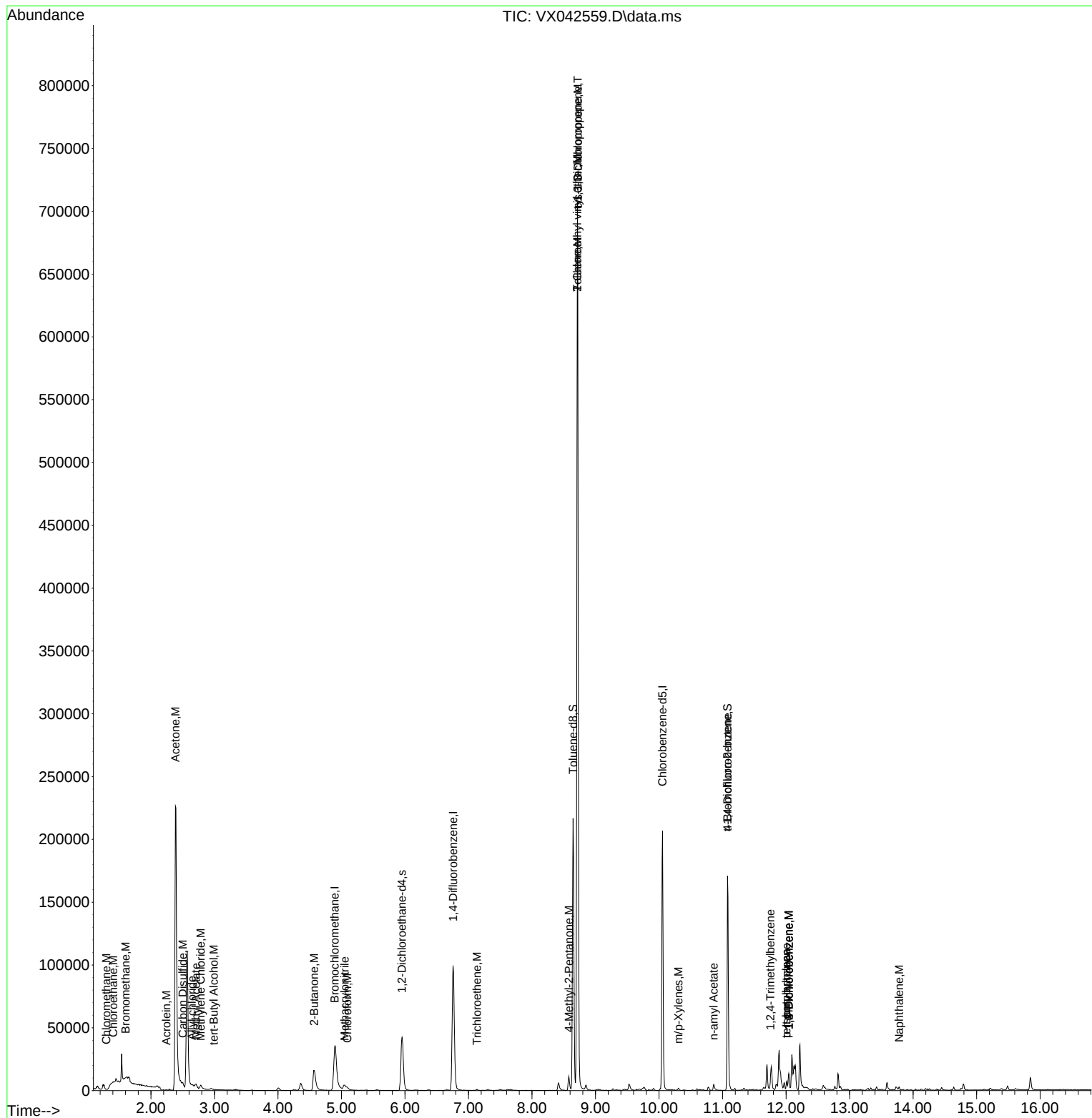
Internal Standards						
1) Bromochloromethane	4.891	128	8787	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	111227	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	103036	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	42409	67.378	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 224.600%#			
60) 4-Bromofluorobenzene	11.079	95	44013	27.454	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 91.500%			
63) Toluene-d8	8.647	98	131709	29.426	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.100%			
Target Compounds					Qvalue	
3) Chloromethane	1.294	50	152	0.276	ug/l #	1
5) Bromomethane	1.599	94	203	0.739	ug/l #	60
6) Chloroethane	1.404	64	14762	62.604	ug/l #	50
12) Methyl Acetate	2.709	43	3736	4.437	ug/l #	87
13) Acrolein	2.239	56	91	0.860	ug/l #	1
15) Acetone	2.385	58	84265	895.864	ug/l	97
16) Carbon Disulfide	2.501	76	2456	2.425	ug/l #	93
17) Allyl chloride	2.642	41	390	0.478	ug/l #	38
18) Methylene Chloride	2.782	84	1915	3.273	ug/l	91
23) tert-Butyl Alcohol	2.989	59	103	0.855	ug/l #	100
25) Chloroform	5.092	83	1586	1.574	ug/l	97
30) 2-Butanone	4.568	43	32371	33.429	ug/l #	96
35) Methacrylonitrile	5.050	41	882	0.923	ug/l #	49
37) Trichloroethene	7.135	130	339	0.265	ug/l	94
47) n-amyl Acetate	10.860	43	573	0.239	ug/l #	1
48) t-1,3-Dichloropropene	8.720	75	3049	1.930	ug/l #	1
49) cis-1,3-Dichloropropene	8.720	75	3049	1.717	ug/l #	1
55) 2-Chloroethyl vinyl ether	8.714	63	26504	28.216	ug/l #	1
58) 4-Methyl-2-Pentanone	8.579	43	6892	3.795	ug/l	97
62) Toluene	8.714	91	472042	91.636	ug/l	100
67) m/p-Xylenes	10.305	106	639	0.285	ug/l	88
77) t-1,4-Dichloro-2-butene	11.079	75	20551	36.010	ug/l #	7
79) tert-butylbenzene	12.006	119	2743	0.540	ug/l	72
80) 1,2,4-Trimethylbenzene	11.756	105	2065	0.431	ug/l	57
82) p-Isopropyltoluene	12.006	119	2743	0.527	ug/l	96
83) 1,3-Dichlorobenzene	12.042	146	708	0.242	ug/l	92
84) 1,4-Dichlorobenzene	12.042	146	708	0.244	ug/l	91
87) 1,2-Dichlorobenzene	12.042	146	708	0.240	ug/l	92
91) Naphthalene	13.780	128	1923	0.322	ug/l #	95

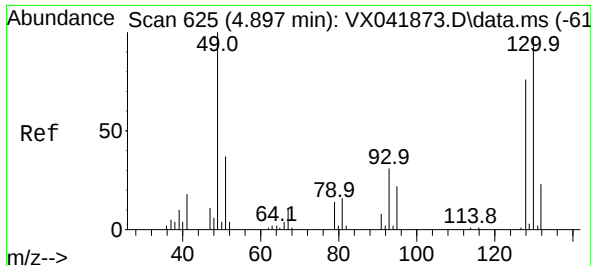
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072624\
Data File : VX042559.D
Acq On : 25 Jul 2024 11:34
Operator : JC/MD
Sample : P3321-01RE
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :

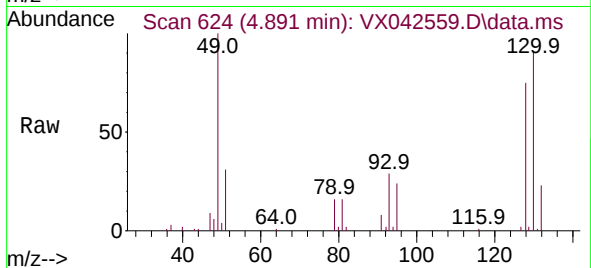
Quant Time: Jul 26 01:34:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071924W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Jul 19 11:30:14 2024
Response via : Initial Calibration



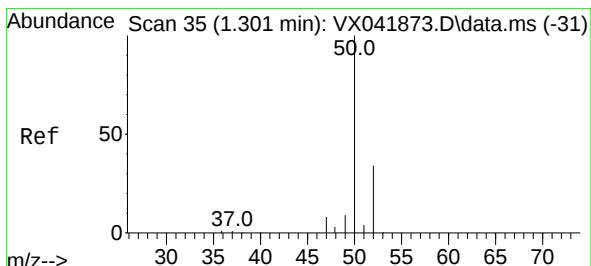
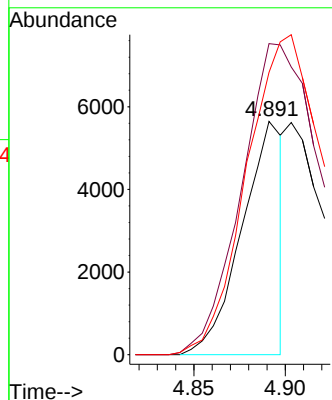
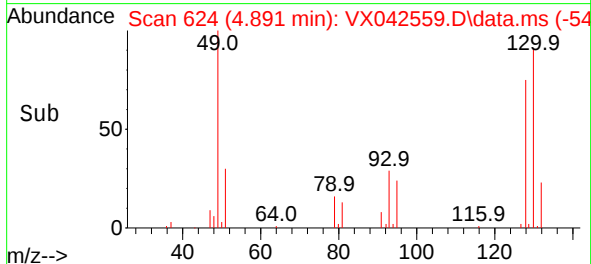


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.891 min Scan# 61
Delta R.T. -0.006 min
Lab File: VX042559.D
Acq: 25 Jul 2024 11:34

Instrument :
MSVOA_X
ClientSampleId :

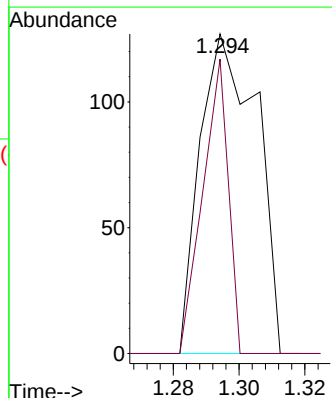
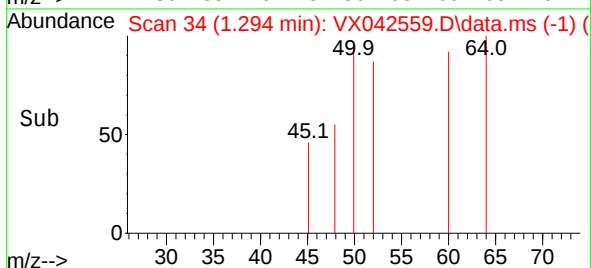
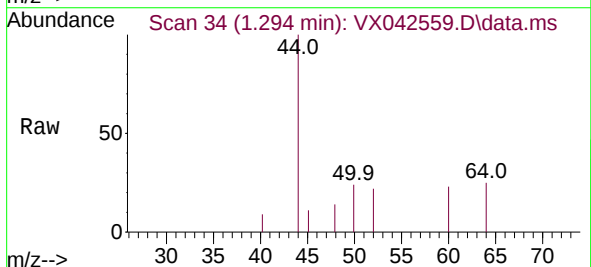


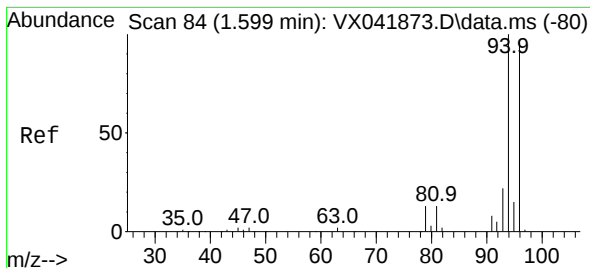
Tgt Ion:128 Resp: 8787
Ion Ratio Lower Upper
128 100
49 290.5 0.0 338.5
130 301.9 0.0 324.5



#3
Chloromethane
Concen: 0.276 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.006 min
Lab File: VX042559.D
Acq: 25 Jul 2024 11:34

Tgt Ion: 50 Resp: 152
Ion Ratio Lower Upper
50 100
52 92.1 26.9 40.3#





#5

Bromomethane

Concen: 0.739 ug/l

RT: 1.599 min Scan# 84

Delta R.T. -0.000 min

Lab File: VX042559.D

Acq: 25 Jul 2024 11:34

Instrument :

MSVOA_X

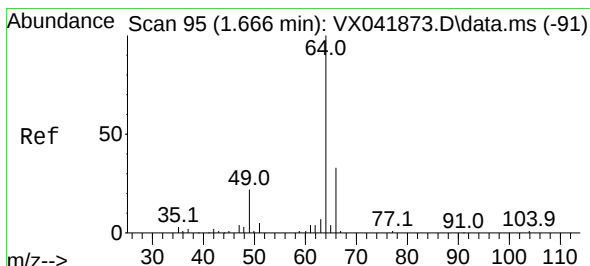
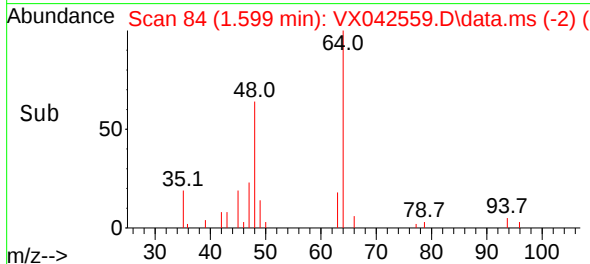
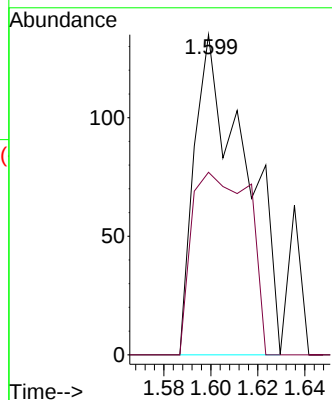
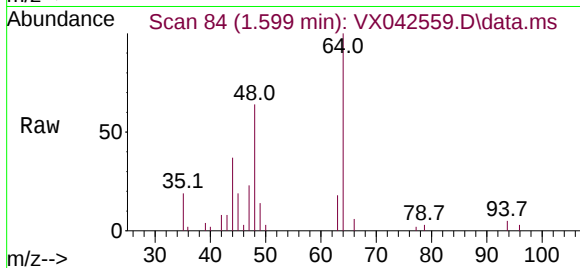
ClientSampleId :

Tgt Ion: 94 Resp: 203

Ion Ratio Lower Upper

94 100

96 57.0 76.6 115.0#



#6

Chloroethane

Concen: 62.604 ug/l

RT: 1.404 min Scan# 52

Delta R.T. -0.262 min

Lab File: VX042559.D

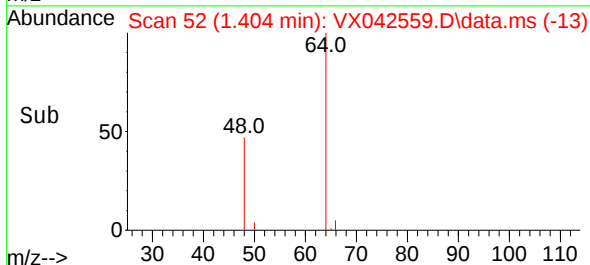
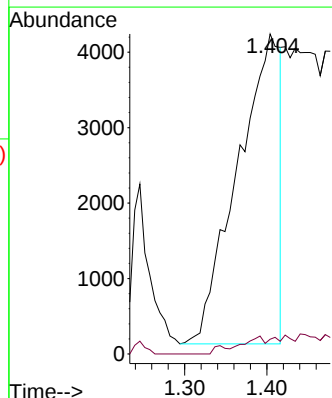
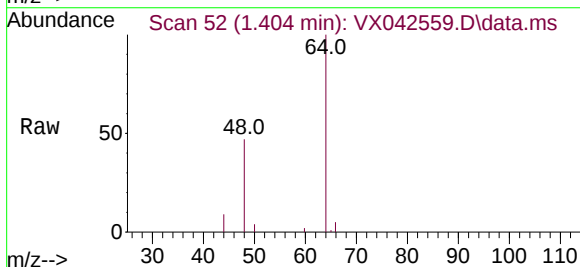
Acq: 25 Jul 2024 11:34

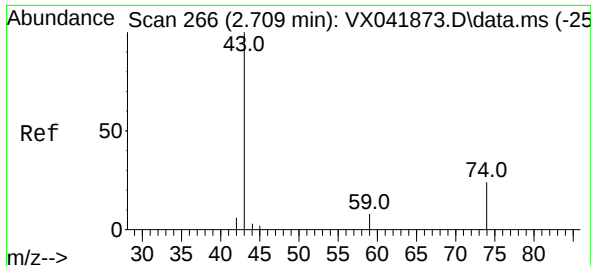
Tgt Ion: 64 Resp: 14762

Ion Ratio Lower Upper

64 100

66 4.7 26.4 39.6#

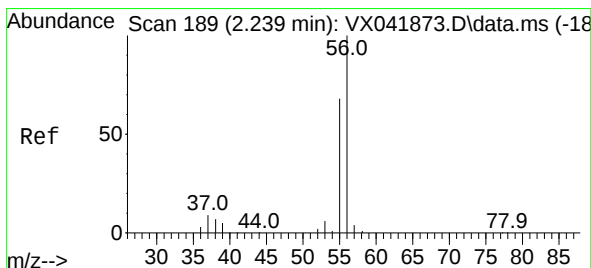
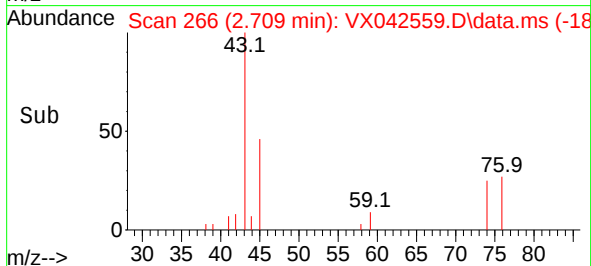
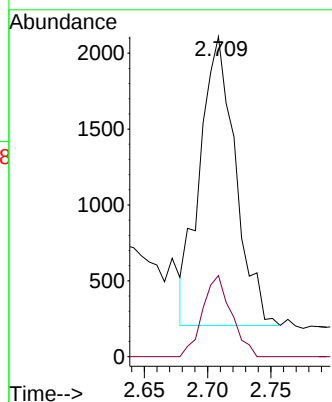
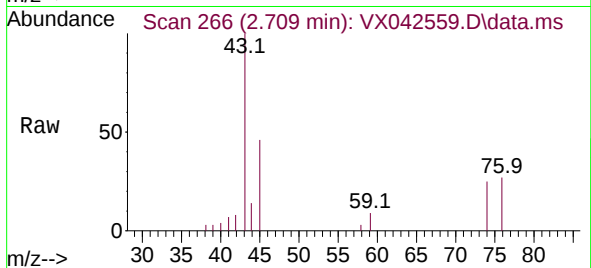




#12
Methyl Acetate
Concen: 4.437 ug/l
RT: 2.709 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX042559.D
Acq: 25 Jul 2024 11:34

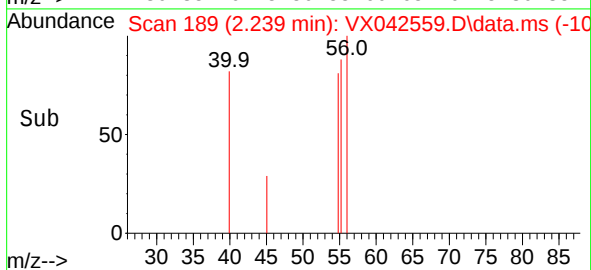
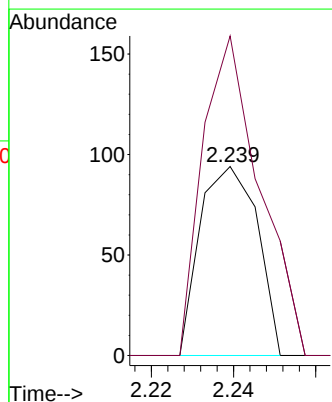
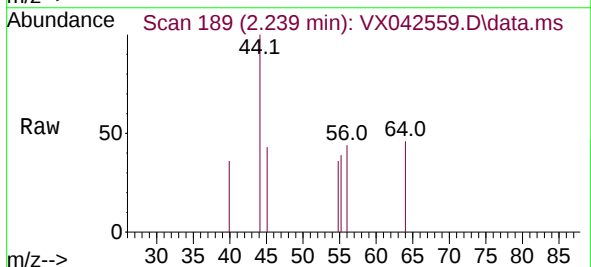
Instrument :
MSVOA_X
ClientSampleId :

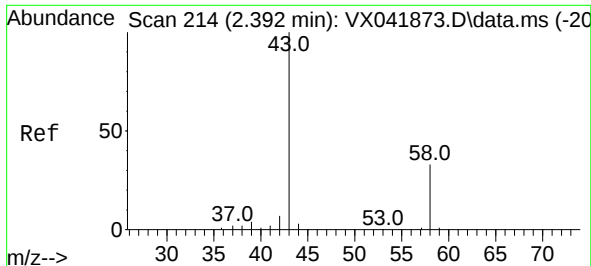
Tgt Ion: 43 Resp: 3736
Ion Ratio Lower Upper
43 100
74 30.7 19.4 29.2#



#13
Acrolein
Concen: 0.860 ug/l
RT: 2.239 min Scan# 189
Delta R.T. -0.000 min
Lab File: VX042559.D
Acq: 25 Jul 2024 11:34

Tgt Ion: 56 Resp: 91
Ion Ratio Lower Upper
56 100
55 169.2 55.4 83.0#

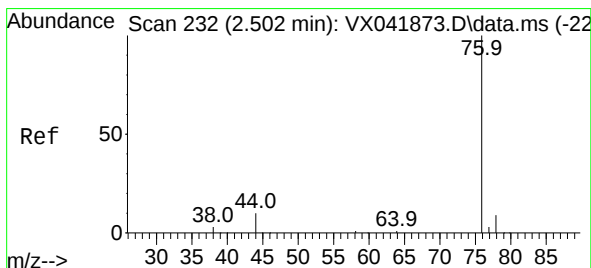
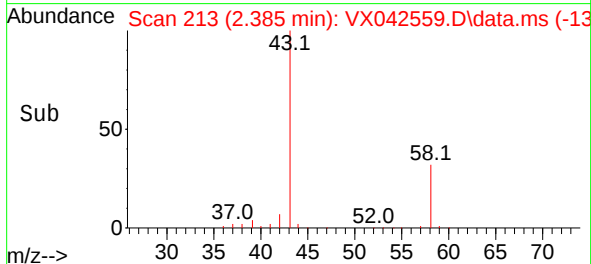
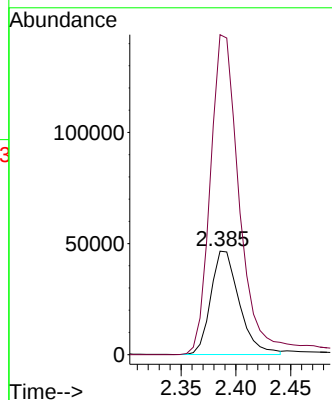
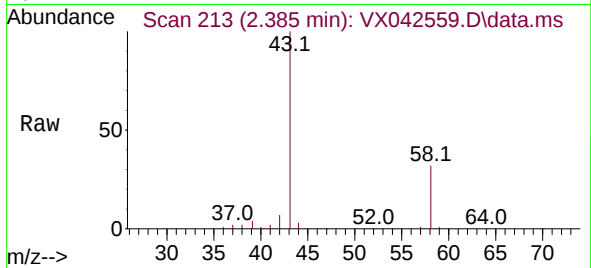




#15
Acetone
Concen: 895.864 ug/l
RT: 2.385 min Scan# 214
Delta R.T. -0.006 min
Lab File: VX042559.D
Acq: 25 Jul 2024 11:34

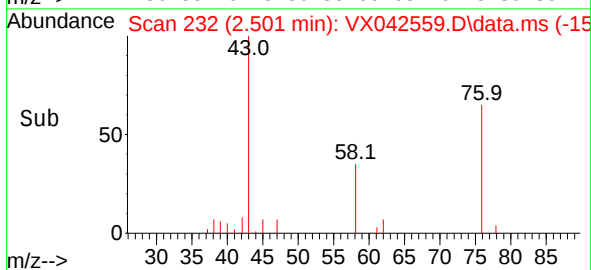
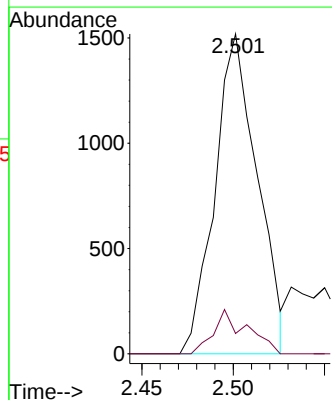
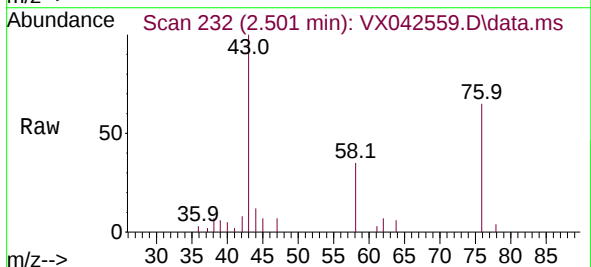
Instrument :
MSVOA_X
ClientSampleId :

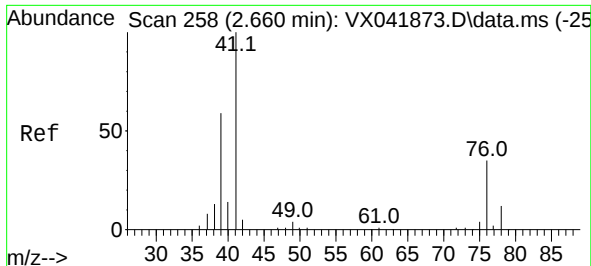
Tgt Ion: 58 Resp: 84265
Ion Ratio Lower Upper
58 100
43 309.7 243.4 365.2



#16
Carbon Disulfide
Concen: 2.425 ug/l
RT: 2.501 min Scan# 232
Delta R.T. -0.000 min
Lab File: VX042559.D
Acq: 25 Jul 2024 11:34

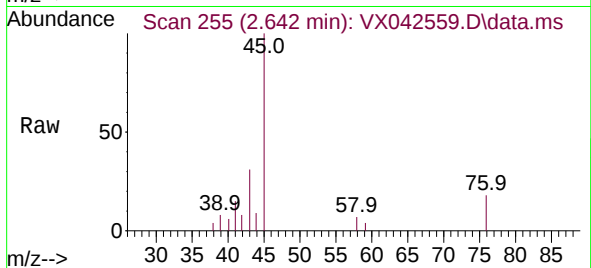
Tgt Ion: 76 Resp: 2456
Ion Ratio Lower Upper
76 100
78 6.4 7.3 10.9#



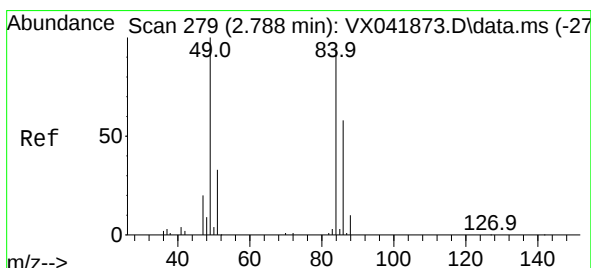
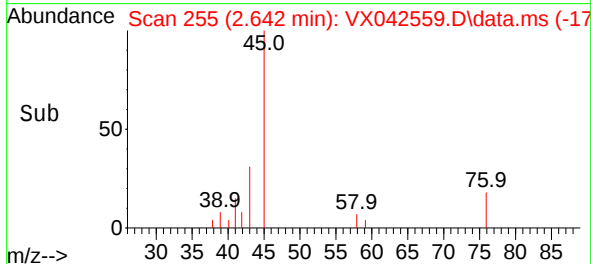
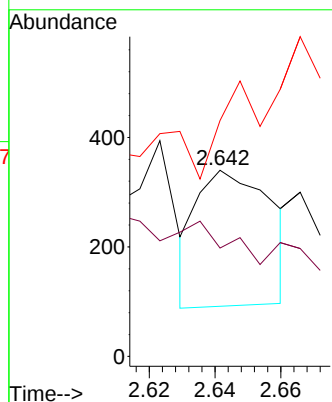


#17
 Allyl chloride
 Concen: 0.478 ug/l
 RT: 2.642 min Scan# 255
 Delta R.T. -0.019 min
 Lab File: VX042559.D
 Acq: 25 Jul 2024 11:34

Instrument :
 MSVOA_X
 ClientSampleId :

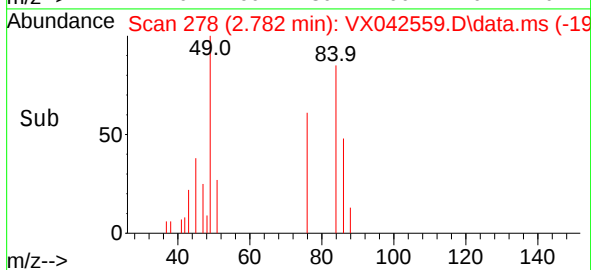
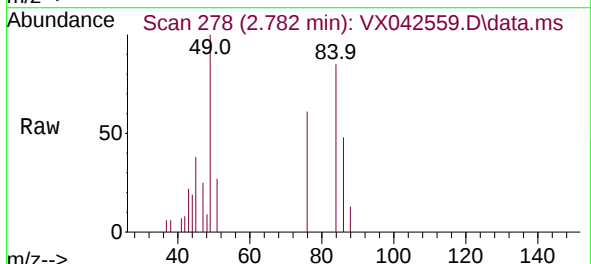
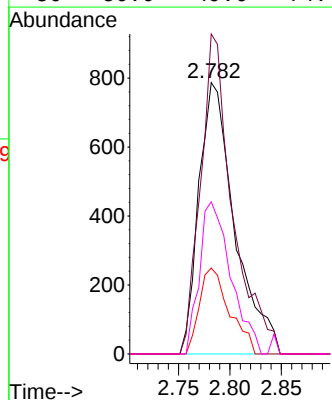


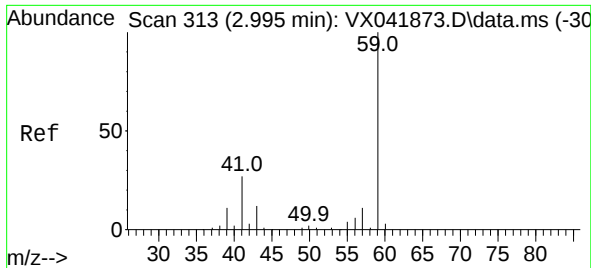
Tgt Ion: 41 Resp: 390
 Ion Ratio Lower Upper
 41 100
 39 0.0 29.6 88.8#
 76 16.4 18.1 54.4#



#18
 Methylene Chloride
 Concen: 3.273 ug/l
 RT: 2.782 min Scan# 278
 Delta R.T. -0.006 min
 Lab File: VX042559.D
 Acq: 25 Jul 2024 11:34

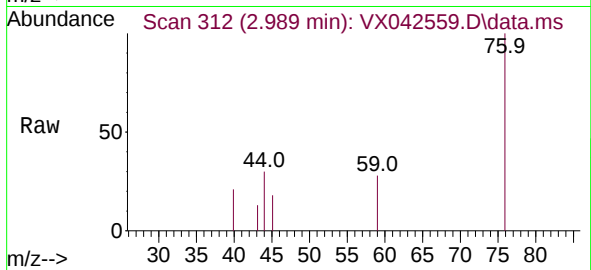
Tgt Ion: 84 Resp: 1915
 Ion Ratio Lower Upper
 84 100
 49 117.9 85.3 127.9
 51 31.6 28.5 42.7
 86 56.0 49.6 74.4



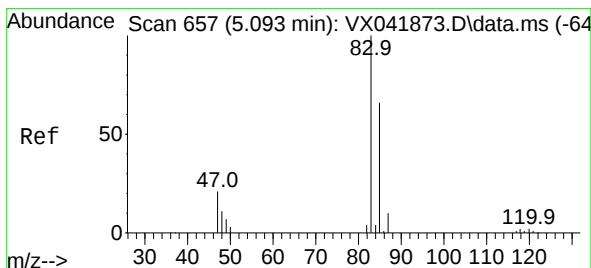
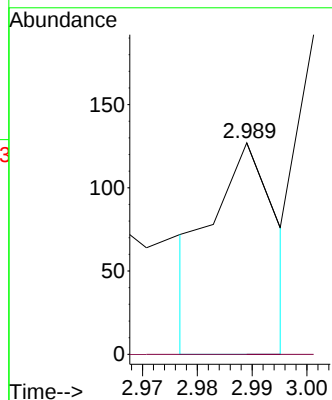
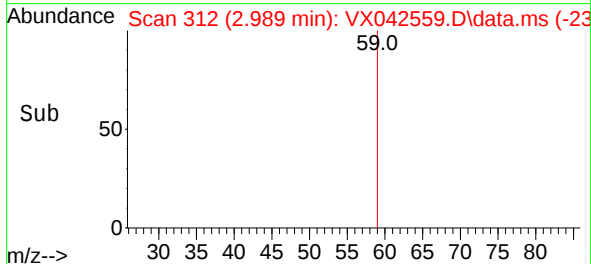


#23
tert-Butyl Alcohol
Concen: 0.855 ug/l
RT: 2.989 min Scan# 313
Delta R.T. -0.006 min
Lab File: VX042559.D
Acq: 25 Jul 2024 11:34

Instrument :
MSVOA_X
ClientSampleId :

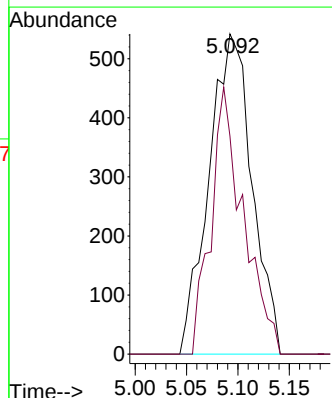
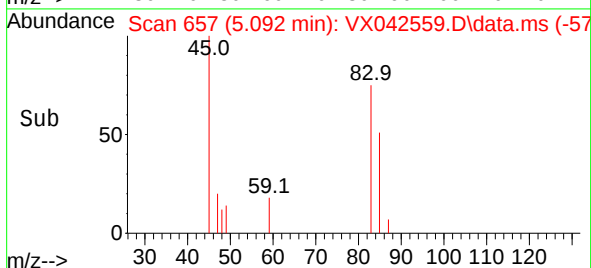
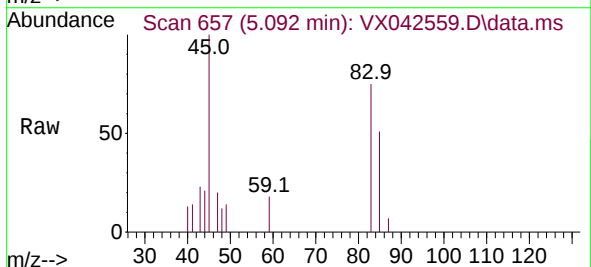


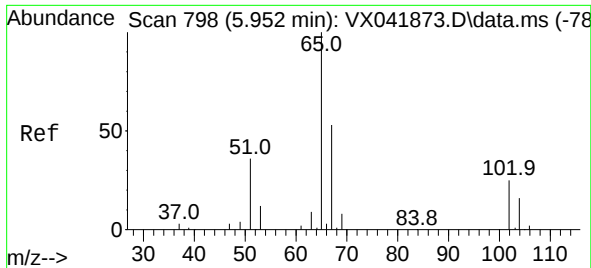
Tgt Ion: 59 Resp: 103
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#25
Chloroform
Concen: 1.574 ug/l
RT: 5.092 min Scan# 657
Delta R.T. -0.000 min
Lab File: VX042559.D
Acq: 25 Jul 2024 11:34

Tgt Ion: 83 Resp: 1586
Ion Ratio Lower Upper
83 100
85 68.1 52.7 79.1

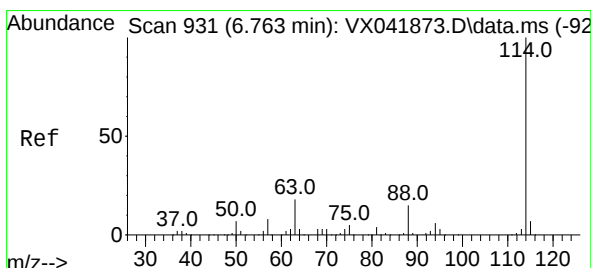
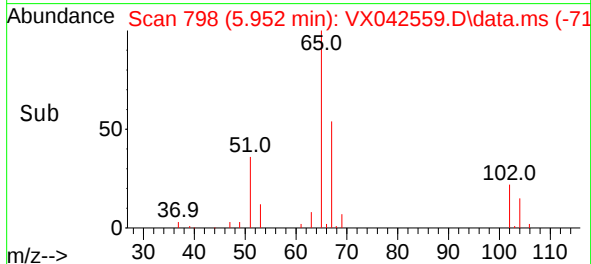
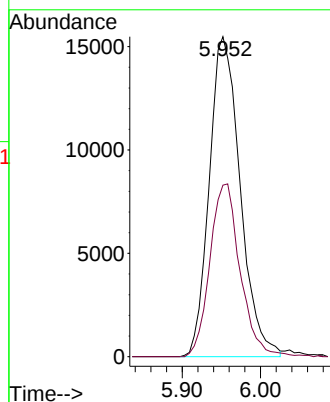
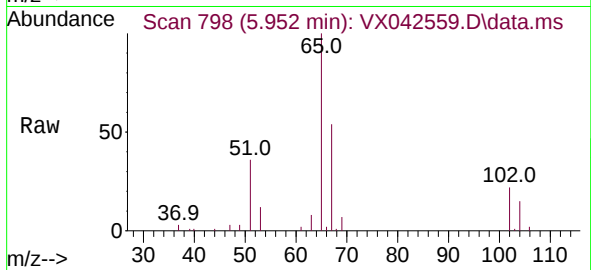




#27
 1,2-Dichloroethane-d4
 Concen: 67.378 ug/l
 RT: 5.952 min Scan# 798
 Delta R.T. -0.000 min
 Lab File: VX042559.D
 Acq: 25 Jul 2024 11:34

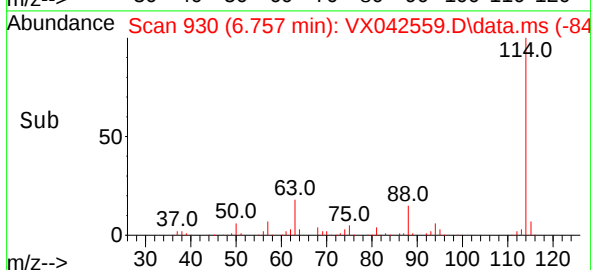
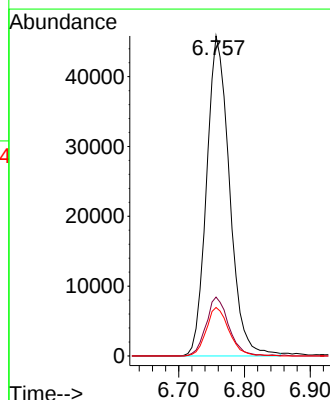
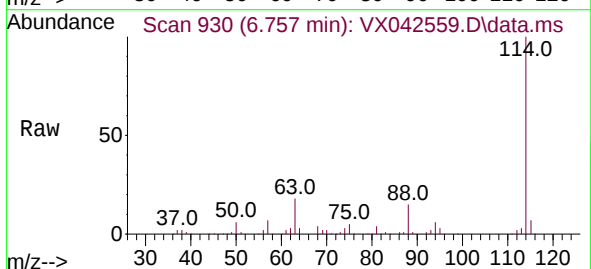
Instrument :
 MSVOA_X
 ClientSampleId :

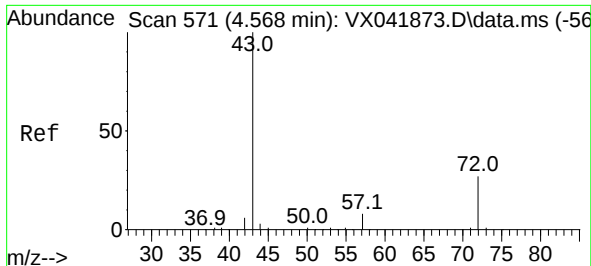
Tgt Ion: 65 Resp: 42409
 Ion Ratio Lower Upper
 65 100
 67 53.0 43.4 65.0



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.757 min Scan# 930
 Delta R.T. -0.006 min
 Lab File: VX042559.D
 Acq: 25 Jul 2024 11:34

Tgt Ion: 114 Resp: 111227
 Ion Ratio Lower Upper
 114 100
 63 18.2 14.6 21.8
 88 15.1 11.8 17.8

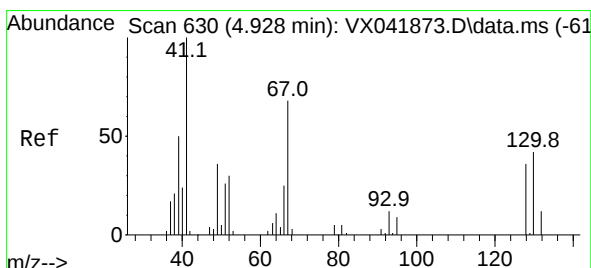
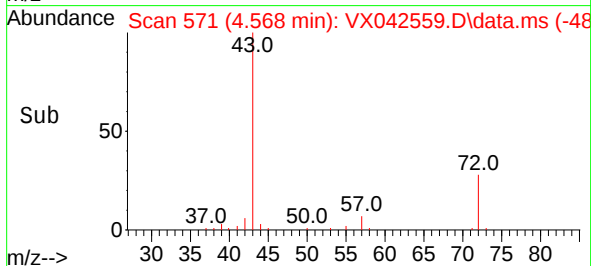
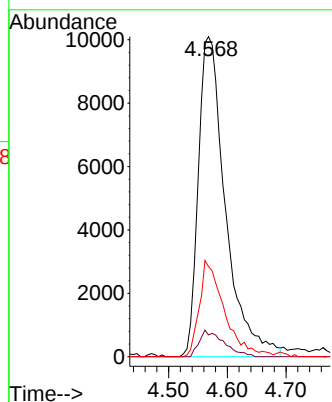
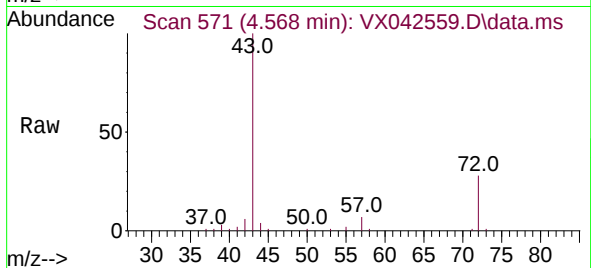




#30
2-Butanone
Concen: 33.429 ug/l
RT: 4.568 min Scan# 51
Delta R.T. -0.000 min
Lab File: VX042559.D
Acq: 25 Jul 2024 11:34

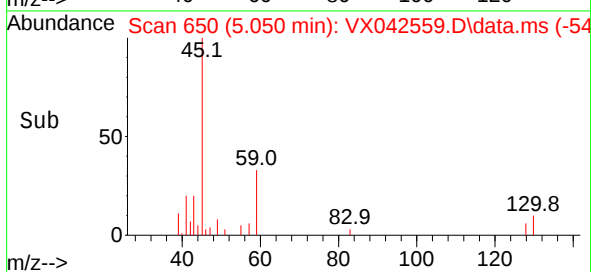
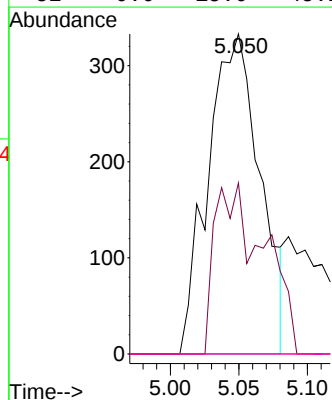
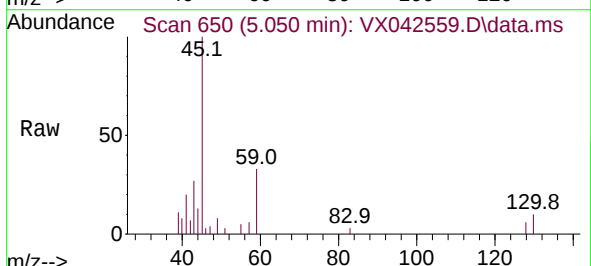
Instrument :
MSVOA_X
ClientSampleId :

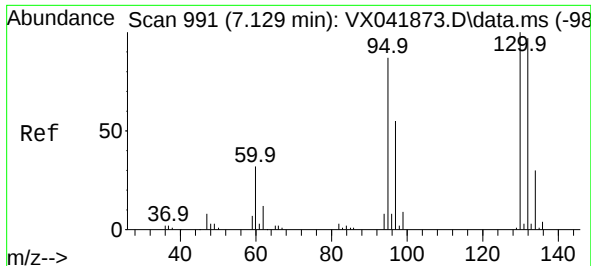
Tgt Ion: 43 Resp: 32371
Ion Ratio Lower Upper
43 100
57 3.1 6.5 9.7#
72 27.1 22.0 33.0



#35
Methacrylonitrile
Concen: 0.923 ug/l
RT: 5.050 min Scan# 650
Delta R.T. 0.122 min
Lab File: VX042559.D
Acq: 25 Jul 2024 11:34

Tgt Ion: 41 Resp: 882
Ion Ratio Lower Upper
41 100
39 53.5 25.2 75.6
67 0.0 34.2 102.5#
52 0.0 15.0 45.1#





#37

Trichloroethene

Concen: 0.265 ug/l

RT: 7.135 min Scan# 991

Delta R.T. 0.006 min

Lab File: VX042559.D

Acq: 25 Jul 2024 11:34

Instrument :

MSVOA_X

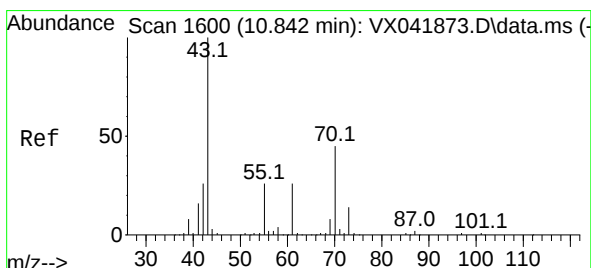
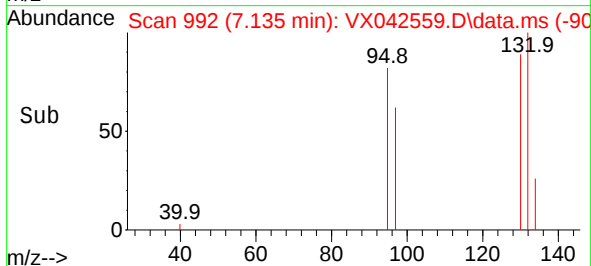
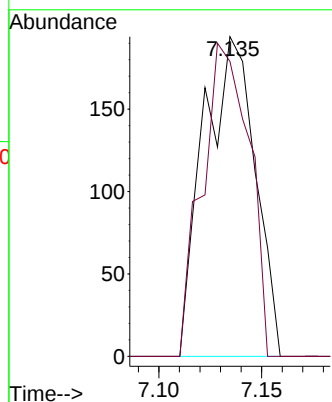
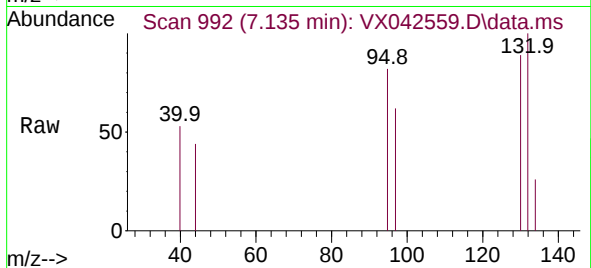
ClientSampleId :

Tgt Ion:130 Resp: 339

Ion Ratio Lower Upper

130 100

95 92.3 69.4 104.0



#47

n-amyl Acetate

Concen: 0.239 ug/l

RT: 10.860 min Scan# 1603

Delta R.T. 0.018 min

Lab File: VX042559.D

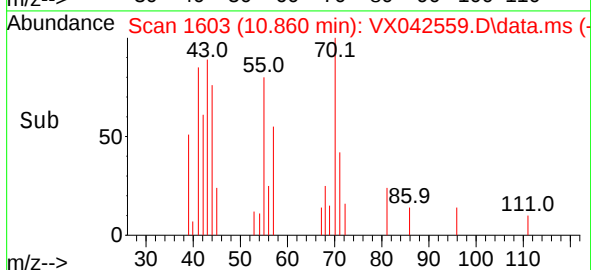
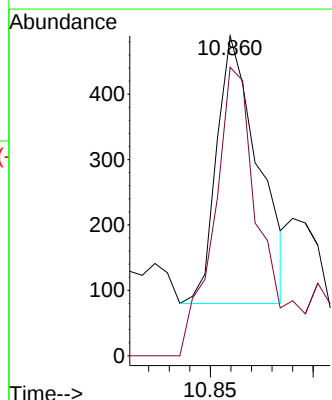
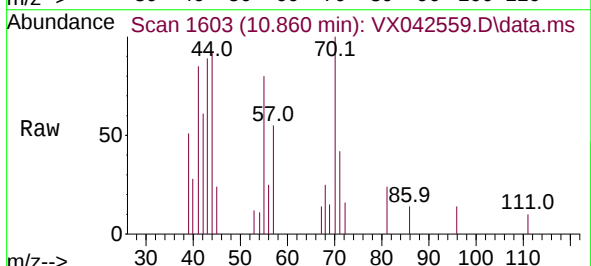
Acq: 25 Jul 2024 11:34

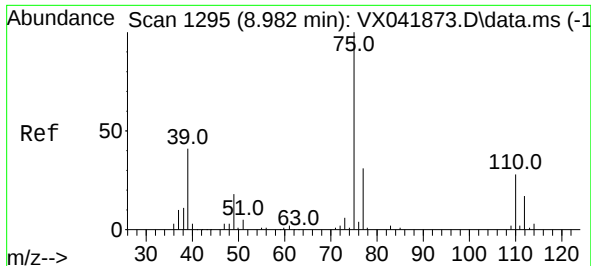
Tgt Ion: 43 Resp: 573

Ion Ratio Lower Upper

43 100

55 121.8 21.0 31.4#





#48

t-1,3-Dichloropropene

Concen: 1.930 ug/l

RT: 8.720 min Scan# 1252

Delta R.T. -0.262 min

Lab File: VX042559.D

Acq: 25 Jul 2024 11:34

Instrument :

MSVOA_X

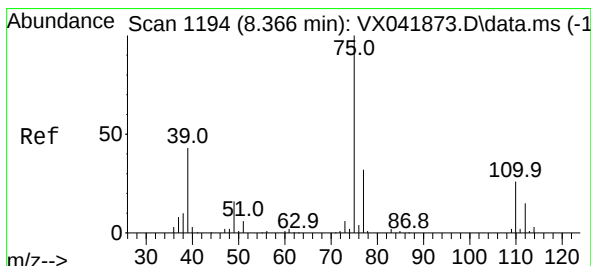
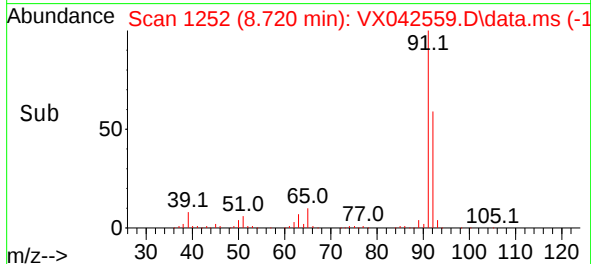
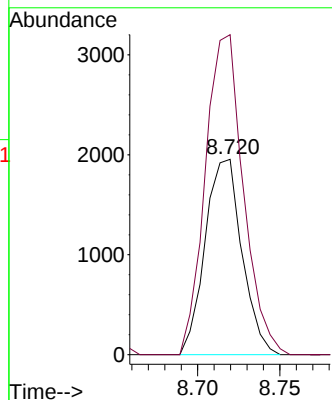
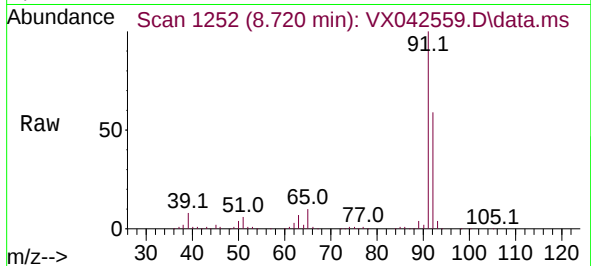
ClientSampleId :

Tgt Ion: 75 Resp: 3049

Ion Ratio Lower Upper

75 100

77 163.8 25.1 37.7#



#49

cis-1,3-Dichloropropene

Concen: 1.717 ug/l

RT: 8.720 min Scan# 1252

Delta R.T. 0.353 min

Lab File: VX042559.D

Acq: 25 Jul 2024 11:34

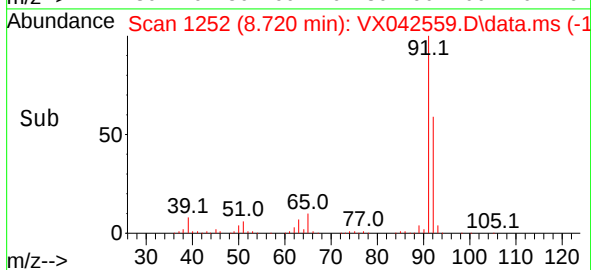
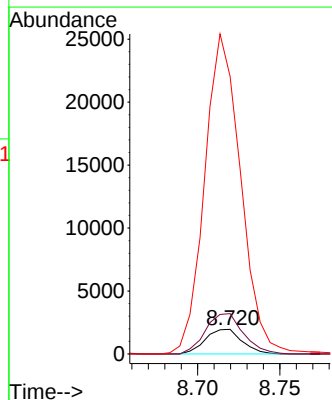
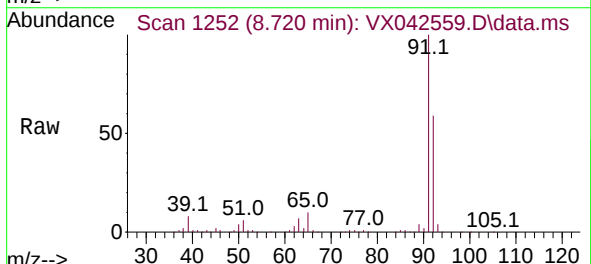
Tgt Ion: 75 Resp: 3049

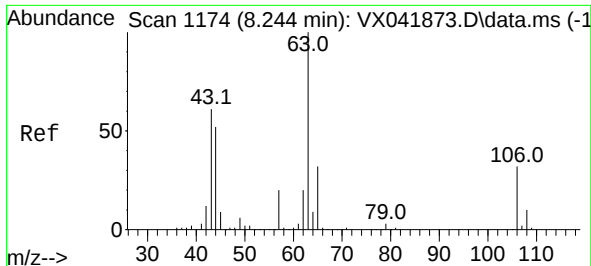
Ion Ratio Lower Upper

75 100

77 163.8 25.8 38.8#

39 1100.8 34.8 52.2#





#55

2-Chloroethyl vinyl ether

Concen: 28.216 ug/l

RT: 8.714 min Scan# 1174

Delta R.T. 0.469 min

Lab File: VX042559.D

Acq: 25 Jul 2024 11:34

Instrument :

MSVOA_X

ClientSampleId :

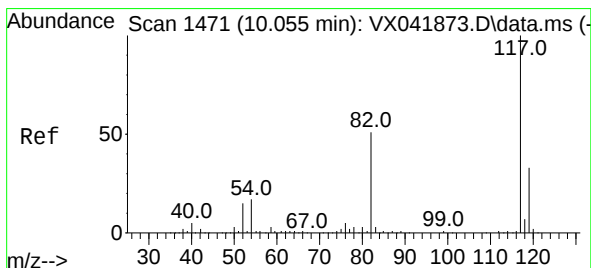
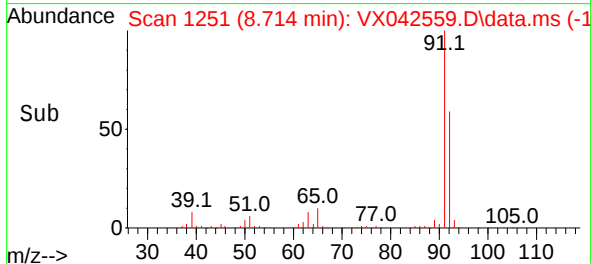
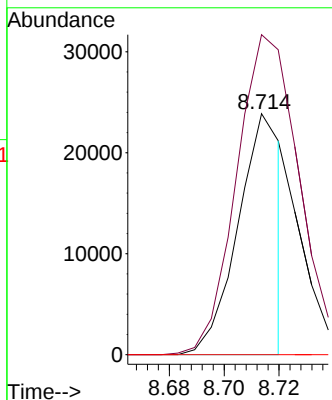
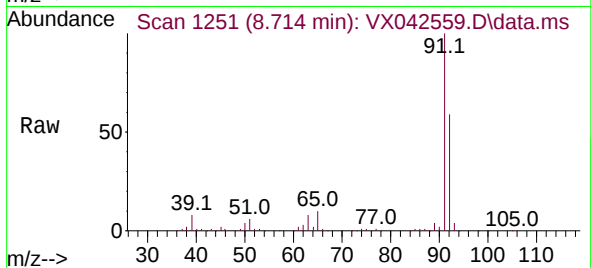
Tgt Ion: 63 Resp: 26504

Ion Ratio Lower Upper

63 100

65 140.5 25.7 38.5#

106 0.0 25.3 37.9#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. -0.000 min

Lab File: VX042559.D

Acq: 25 Jul 2024 11:34

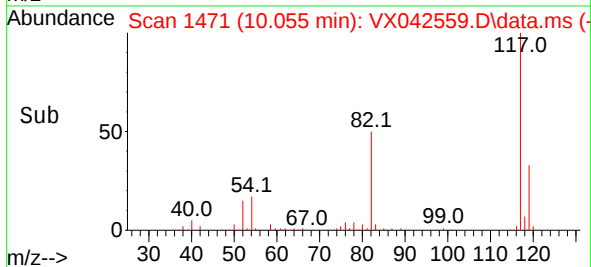
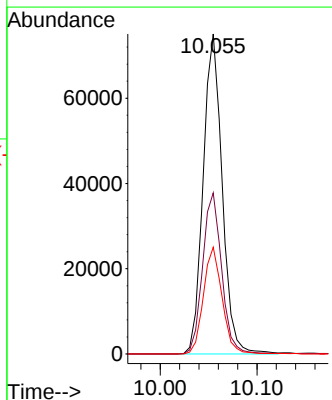
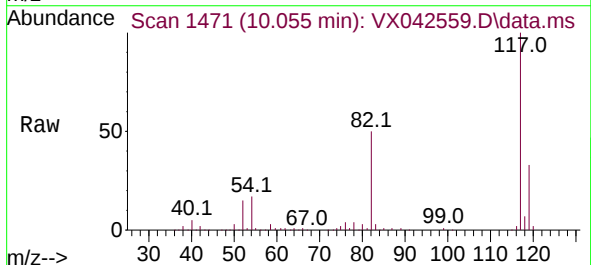
Tgt Ion: 117 Resp: 103036

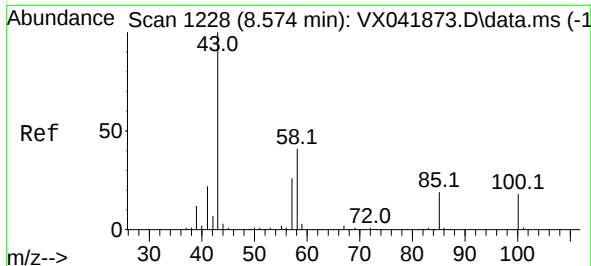
Ion Ratio Lower Upper

117 100

82 50.6 41.1 61.7

119 32.8 26.1 39.1





#58

4-Methyl-2-Pentanone

Concen: 3.795 ug/l

RT: 8.579 min Scan# 1229

Delta R.T. 0.006 min

Lab File: VX042559.D

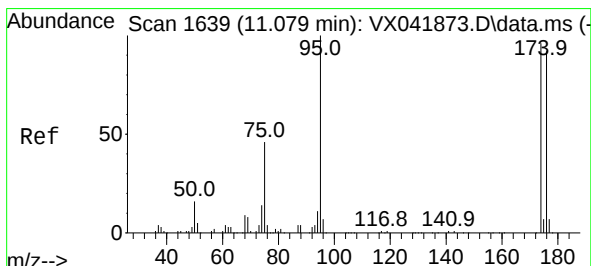
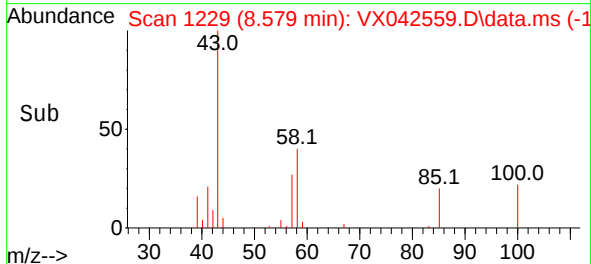
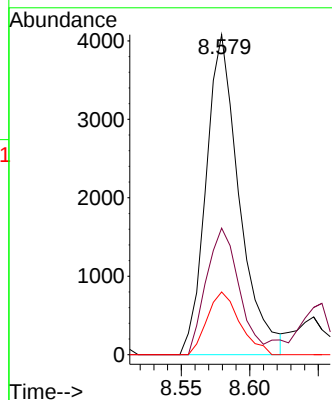
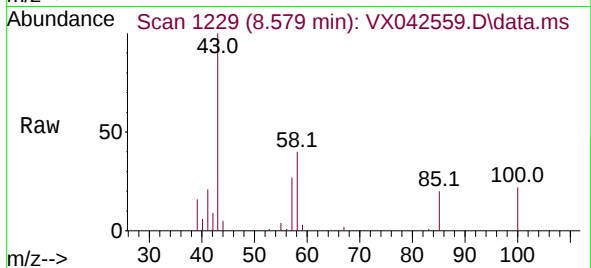
Acq: 25 Jul 2024 11:34

Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion:	43	Resp:	6892
Ion	Ratio	Lower	Upper
43	100		
58	38.9	33.2	49.8
85	19.2	15.5	23.3



#60

4-Bromofluorobenzene

Concen: 27.454 ug/l

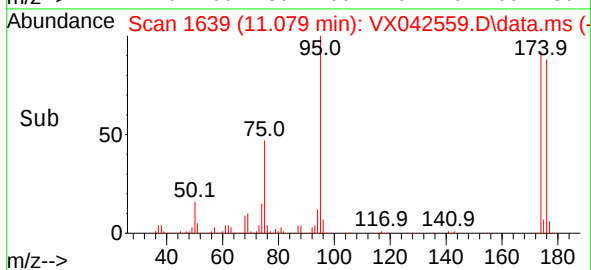
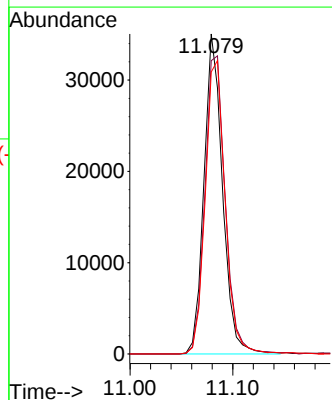
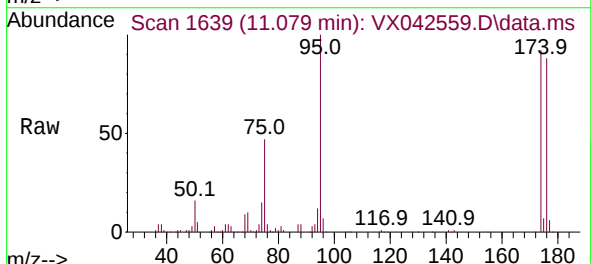
RT: 11.079 min Scan# 1639

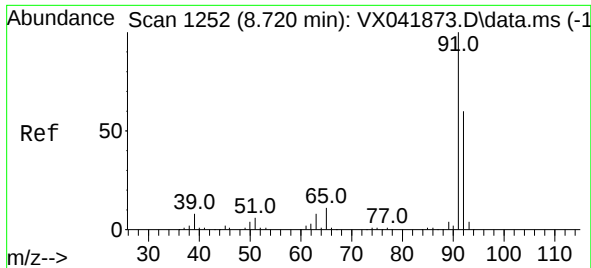
Delta R.T. -0.000 min

Lab File: VX042559.D

Acq: 25 Jul 2024 11:34

Tgt Ion:	95	Resp:	44013
Ion	Ratio	Lower	Upper
95	100		
174	102.2	78.9	118.3
176	98.2	77.1	115.7





#62

Toluene

Concen: 91.636 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. -0.006 min

Lab File: VX042559.D

Acq: 25 Jul 2024 11:34

Instrument :

MSVOA_X

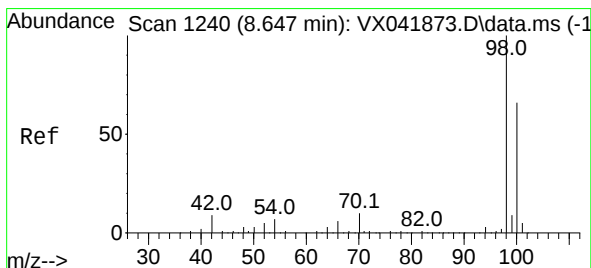
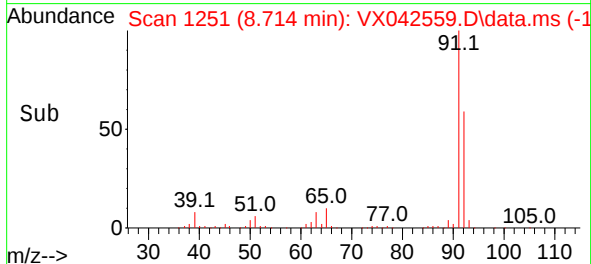
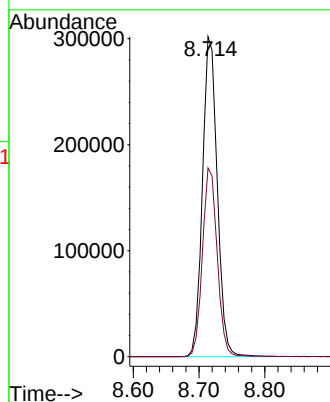
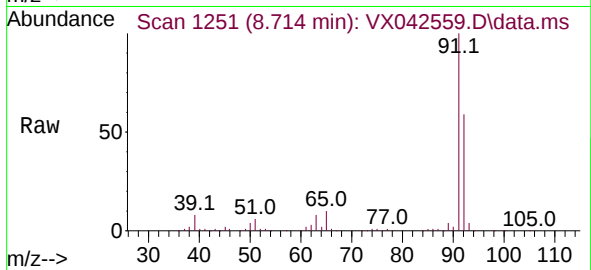
ClientSampleId :

Tgt Ion: 91 Resp: 472042

Ion Ratio Lower Upper

91 100

92 59.0 47.4 71.2



#63

Toluene-d8

Concen: 29.426 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX042559.D

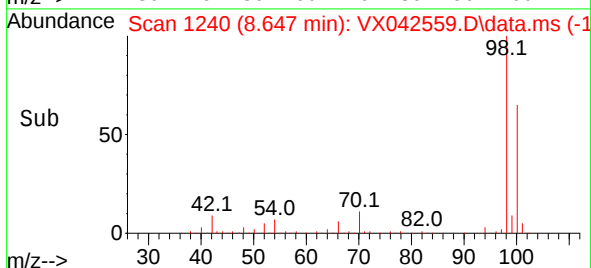
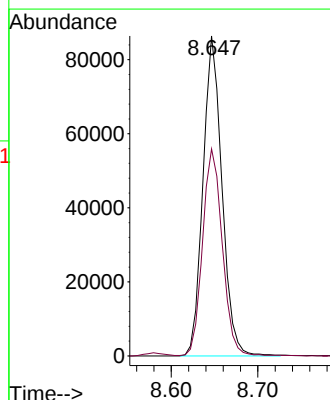
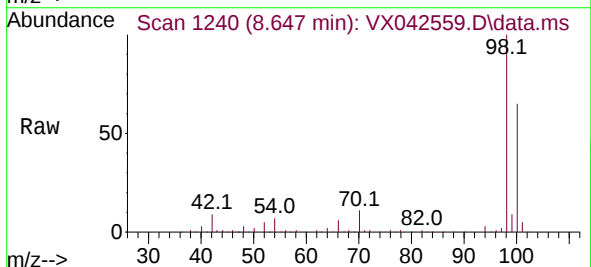
Acq: 25 Jul 2024 11:34

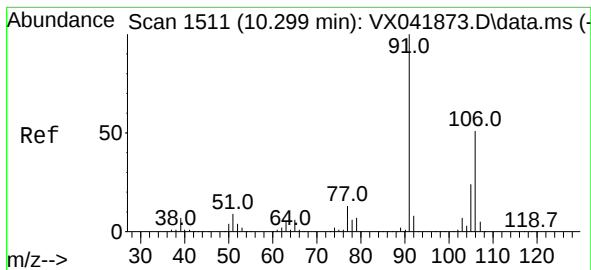
Tgt Ion: 98 Resp: 131709

Ion Ratio Lower Upper

98 100

100 66.6 52.7 79.1

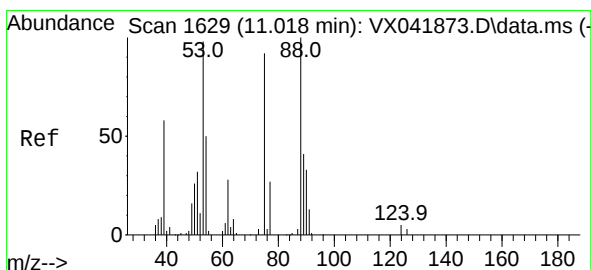
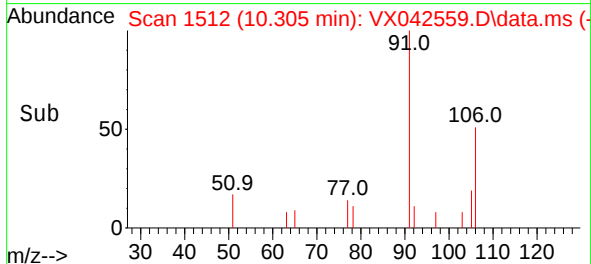
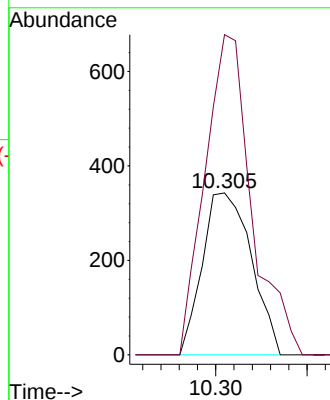
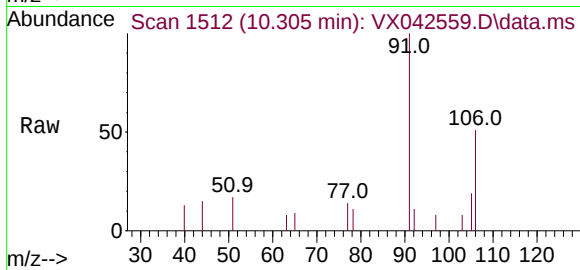




#67
m/p-Xylenes
Concen: 0.285 ug/l
RT: 10.305 min Scan# 1511
Delta R.T. 0.006 min
Lab File: VX042559.D
Acq: 25 Jul 2024 11:34

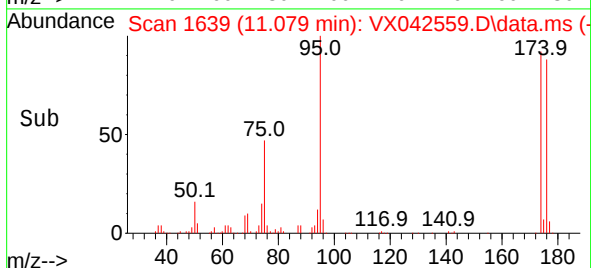
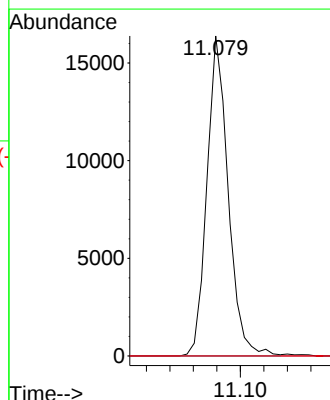
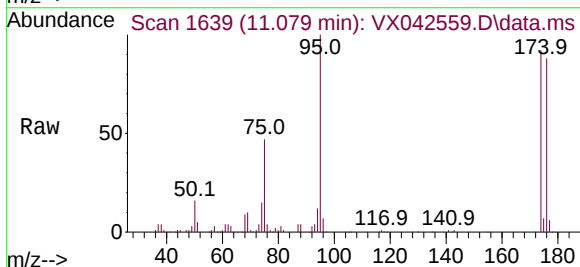
Instrument :
MSVOA_X
ClientSampleId :

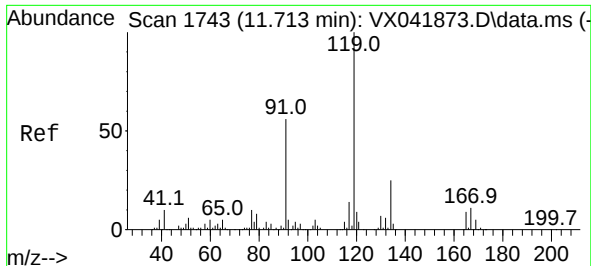
Tgt Ion:106 Resp: 639
Ion Ratio Lower Upper
106 100
91 177.9 157.0 235.6



#77
t-1,4-Dichloro-2-butene
Concen: 36.010 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX042559.D
Acq: 25 Jul 2024 11:34

Tgt Ion: 75 Resp: 20551
Ion Ratio Lower Upper
75 100
53 0.0 53.4 160.2#
89 0.0 22.5 67.5#





#79

tert-butylbenzene

Concen: 0.540 ug/l

RT: 12.006 min Scan# 1

Delta R.T. 0.292 min

Lab File: VX042559.D

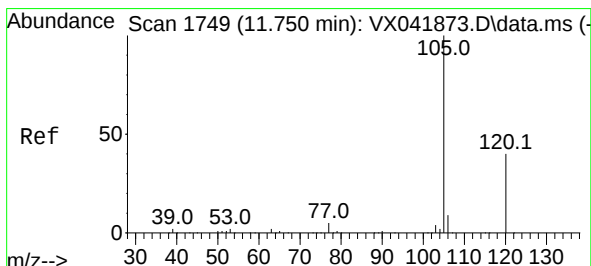
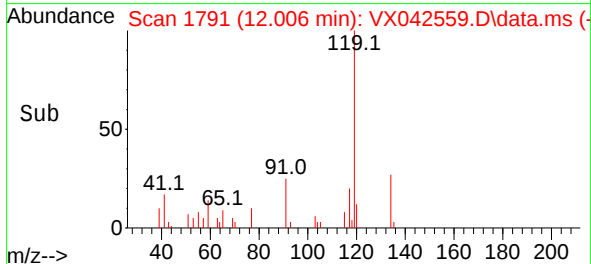
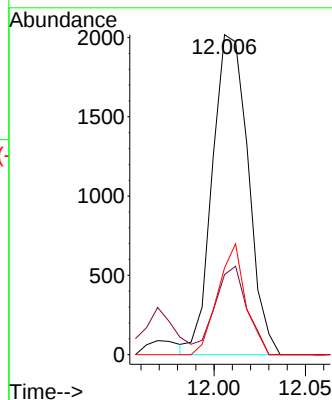
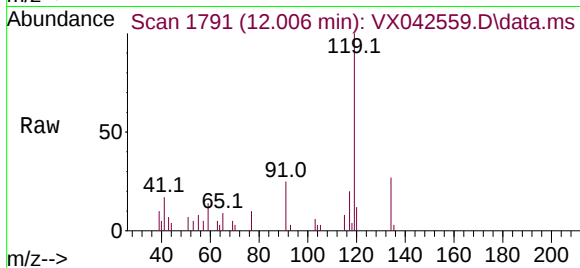
Acq: 25 Jul 2024 11:34

Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion:119	Resp:	2743
Ion Ratio	Lower	Upper
119	100	
91	24.9	0.0 106.0
134	26.9	0.0 49.4



#80

1,2,4-Trimethylbenzene

Concen: 0.431 ug/l

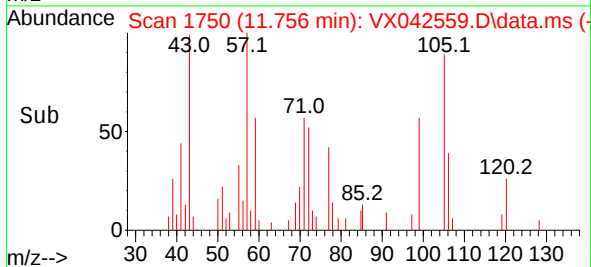
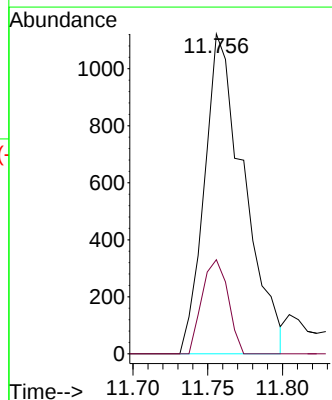
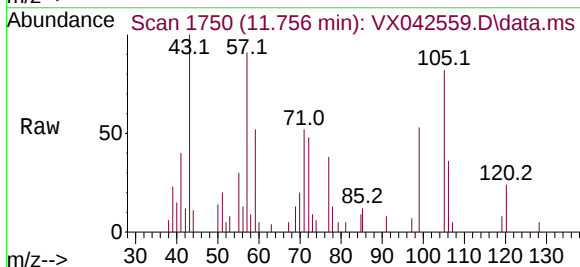
RT: 11.756 min Scan# 1750

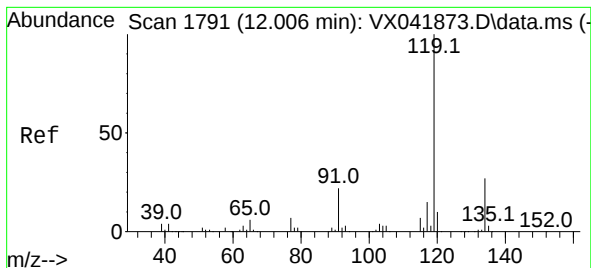
Delta R.T. 0.006 min

Lab File: VX042559.D

Acq: 25 Jul 2024 11:34

Tgt Ion:105	Resp:	2065
Ion Ratio	Lower	Upper
105	100	
120	19.3	0.0 96.2





#82

p-Isopropyltoluene

Concen: 0.527 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VX042559.D

Acq: 25 Jul 2024 11:34

Instrument :

MSVOA_X

ClientSampleId :

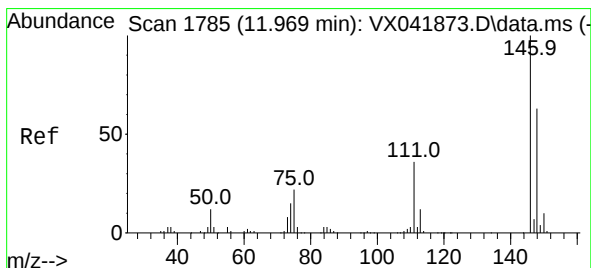
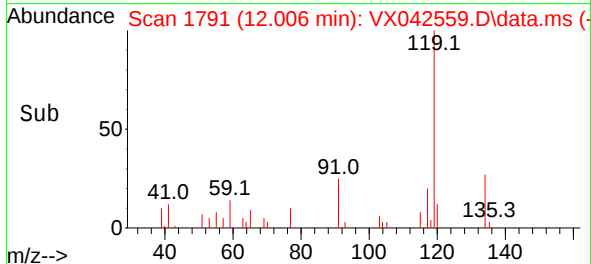
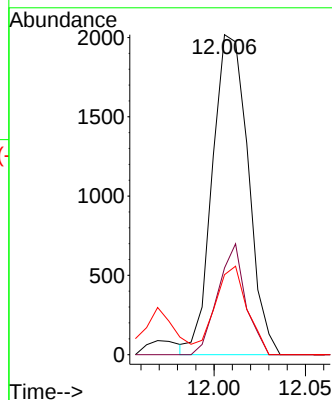
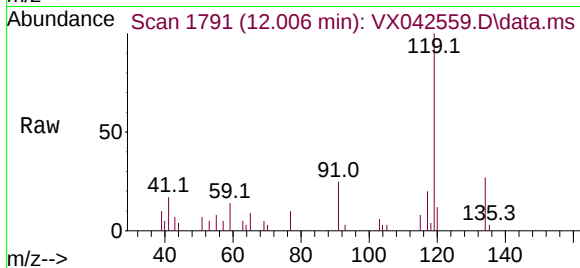
Tgt Ion:119 Resp: 2743

Ion Ratio Lower Upper

119 100

134 26.9 0.0 54.0

91 24.9 0.0 42.2



#83

1,3-Dichlorobenzene

Concen: 0.242 ug/l

RT: 12.042 min Scan# 1797

Delta R.T. 0.073 min

Lab File: VX042559.D

Acq: 25 Jul 2024 11:34

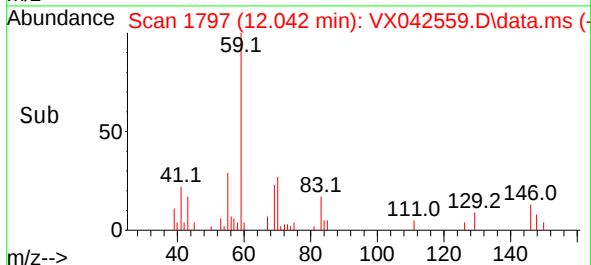
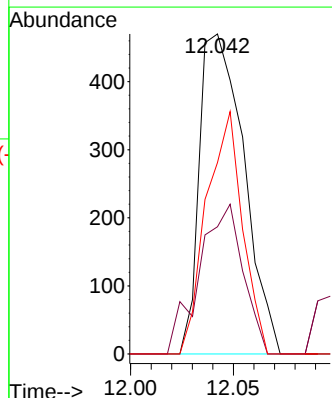
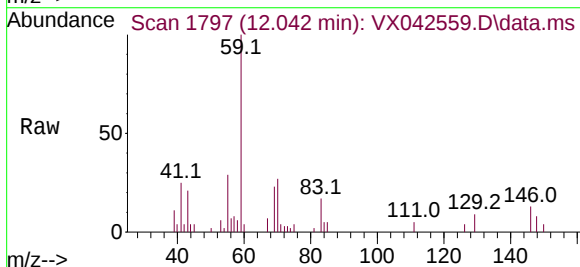
Tgt Ion:146 Resp: 708

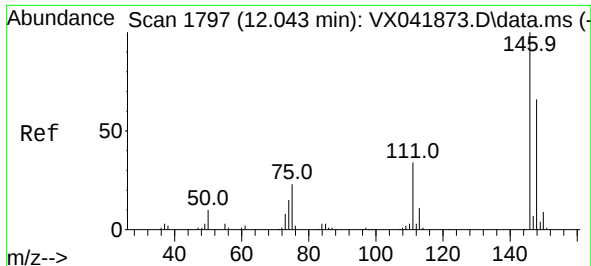
Ion Ratio Lower Upper

146 100

111 46.2 18.0 54.0

148 61.4 31.9 95.7





#84

1,4-Dichlorobenzene

Concen: 0.244 ug/l

RT: 12.042 min Scan# 1797

Delta R.T. -0.000 min

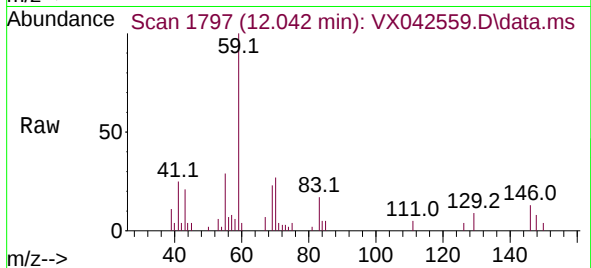
Lab File: VX042559.D

Acq: 25 Jul 2024 11:34

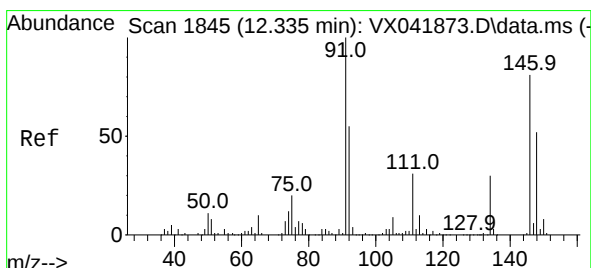
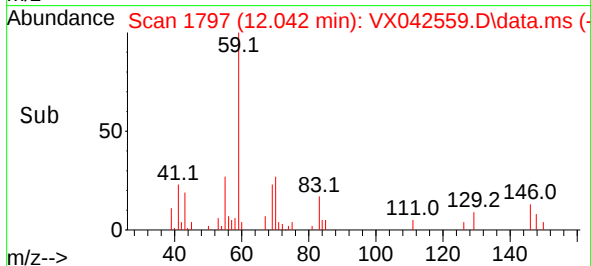
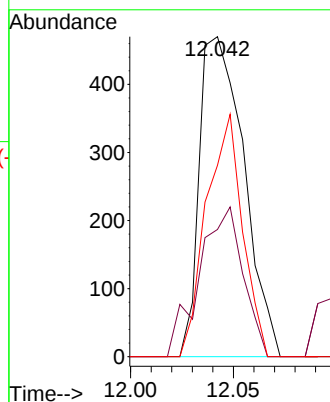
Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion:	146	Resp:	708
Ion	Ratio	Lower	Upper
146	100		
111	46.2	17.4	52.3
148	61.4	32.3	96.9



#87

1,2-Dichlorobenzene

Concen: 0.240 ug/l

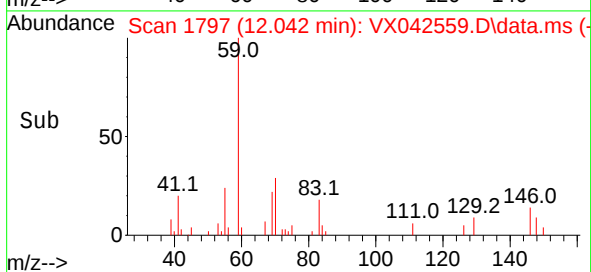
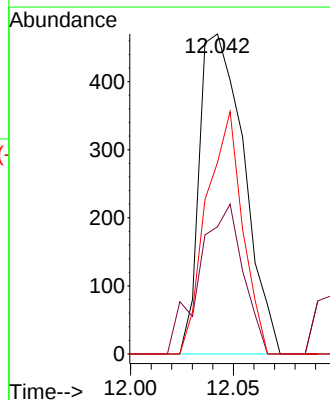
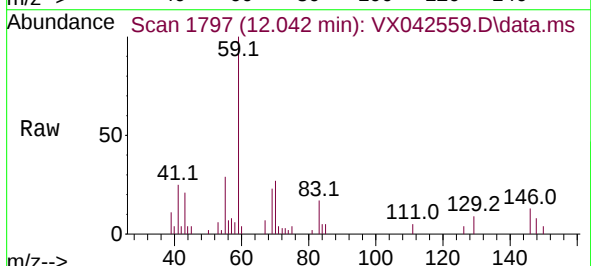
RT: 12.042 min Scan# 1797

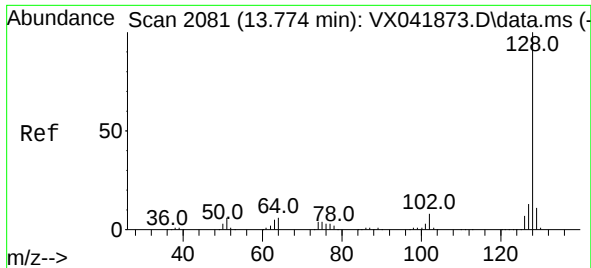
Delta R.T. -0.293 min

Lab File: VX042559.D

Acq: 25 Jul 2024 11:34

Tgt Ion:	146	Resp:	708
Ion	Ratio	Lower	Upper
146	100		
111	46.2	19.1	57.3
148	61.4	32.4	97.0





#91

Naphthalene

Concen: 0.322 ug/l

RT: 13.780 min Scan# 20

Delta R.T. 0.006 min

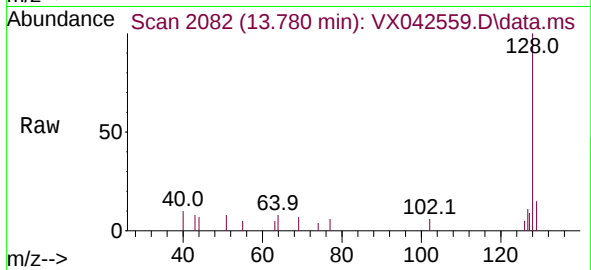
Lab File: VX042559.D

Acq: 25 Jul 2024 11:34

Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion:128 Resp: 1923

Ion Ratio Lower Upper

128 100

127 15.0 10.4 15.6

129 8.7 8.7 13.1#

