

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062724\
 Data File : VX042074.D
 Acq On : 27 Jun 2024 15:01
 Operator : JC/MD
 Sample : P3067-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 28 04:04:33 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061424W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jun 15 04:02:59 2024
 Response via : Initial Calibration

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

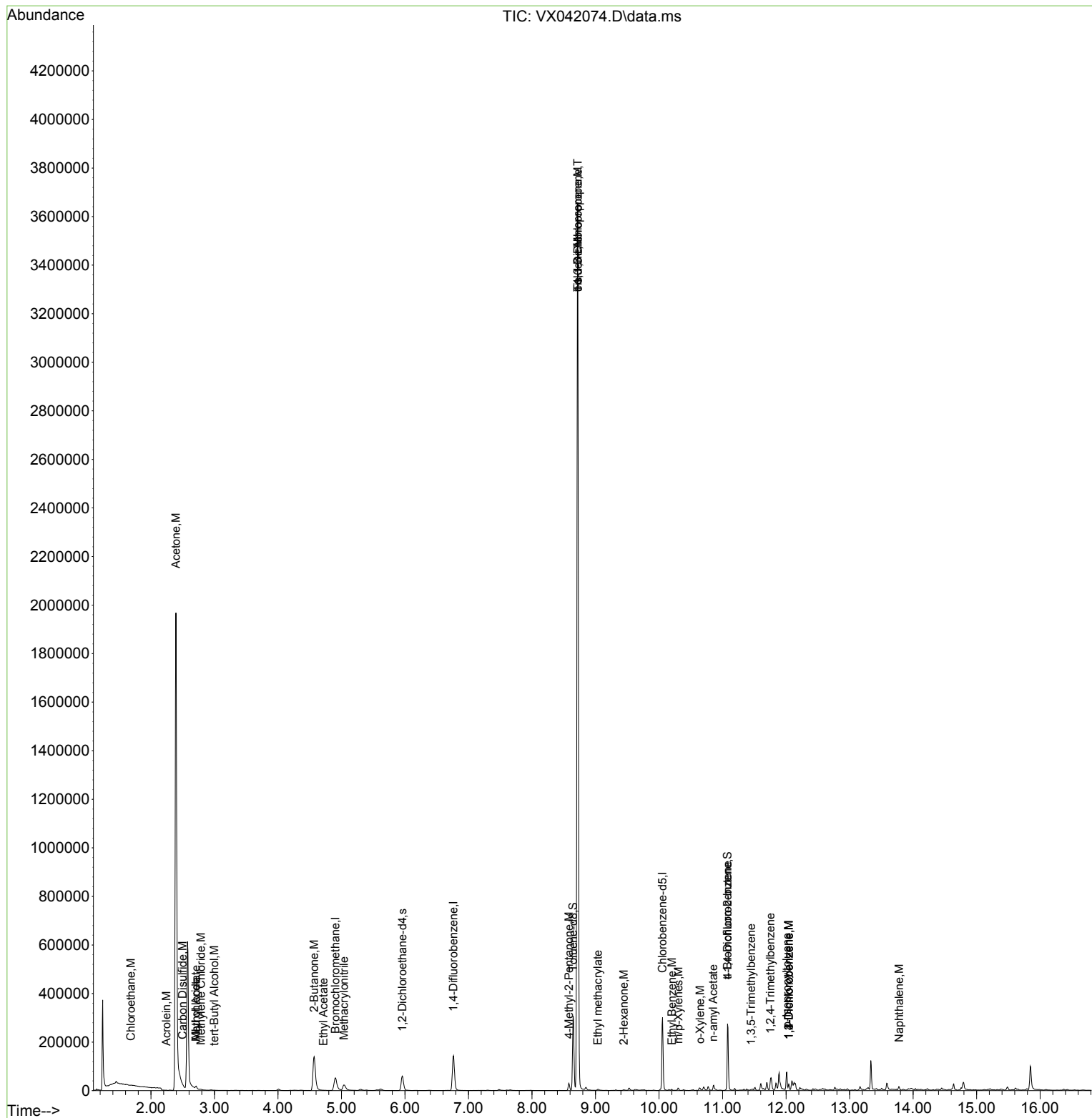
Internal Standards						
1) Bromochloromethane	4.903	128	29639	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	167555	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	153384	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	56851	27.864	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	92.867%		
60) 4-Bromofluorobenzene	11.079	95	70855	29.843	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.467%		
63) Toluene-d8	8.647	98	190941	29.097	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	97.000%		
Target Compounds						Qvalue
6) Chloroethane	1.685	64	4919	5.489	ug/l #	53
12) Methyl Acetate	2.709	43	13993	6.059	ug/l	90
13) Acrolein	2.239	56	366	0.786	ug/l	94
15) Acetone	2.392	58	787696	2512.109	ug/l	90
16) Carbon Disulfide	2.495	76	1491	0.376	ug/l #	94
17) Allyl chloride	2.709	41	625	0.227	ug/l #	59
18) Methylene Chloride	2.788	84	1188	0.572	ug/l	90
23) tert-Butyl Alcohol	2.995	59	696	1.708	ug/l #	100
30) 2-Butanone	4.568	43	256219	175.347	ug/l	99
35) Methacrylonitrile	5.038	41	6005	4.091	ug/l #	43
43) Ethyl Acetate	4.714	43	717	0.262	ug/l #	80
47) n-amyl Acetate	10.854	43	3994	1.084	ug/l #	1
48) t-1,3-Dichloropropene	8.720	75	15208	6.423	ug/l #	1
49) cis-1,3-Dichloropropene	8.720	75	15208	5.726	ug/l #	1
51) Ethyl methacrylate	9.037	69	834	0.281	ug/l	66
58) 4-Methyl-2-Pentanone	8.580	43	18501	6.731	ug/l	100
59) 2-Hexanone	9.445	43	1856	0.875	ug/l	92
62) Toluene	8.720	91	2462952	317.319	ug/l	98
66) Ethyl Benzene	10.201	91	2993	0.353	ug/l	91
67) m/p-Xylenes	10.305	106	2763	0.809	ug/l	97
68) o-Xylene	10.646	106	1230	0.361	ug/l	92
76) 1,3,5-Trimethylbenzene	11.451	105	1759	0.245	ug/l	97
77) t-1,4-Dichloro-2-butene	11.079	75	31662	35.684	ug/l #	8
80) 1,2,4-Trimethylbenzene	11.756	105	12377	1.728	ug/l	63
82) p-Isopropyltoluene	12.012	119	34782	4.472	ug/l	100
83) 1,3-Dichlorobenzene	12.042	146	2195	0.493	ug/l	97
84) 1,4-Dichlorobenzene	12.042	146	2195	0.496	ug/l	96
87) 1,2-Dichlorobenzene	12.042	146	2195	0.488	ug/l	98
91) Naphthalene	13.780	128	9110	0.990	ug/l	96

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062724\
Data File : VX042074.D
Acq On : 27 Jun 2024 15:01
Operator : JC/MD
Sample : P3067-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :

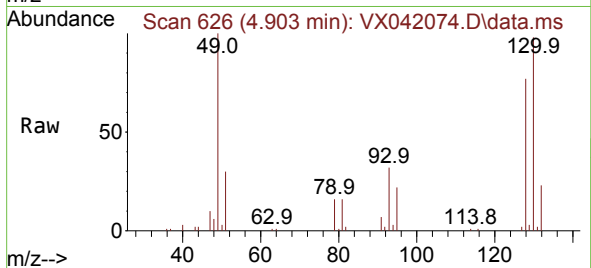
Quant Time: Jun 28 04:04:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061424W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Jun 15 04:02:59 2024
Response via : Initial Calibration



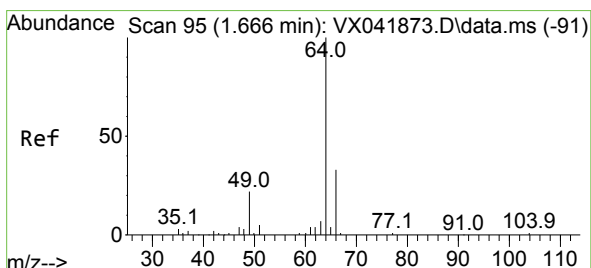
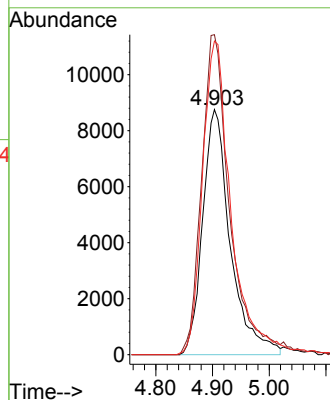
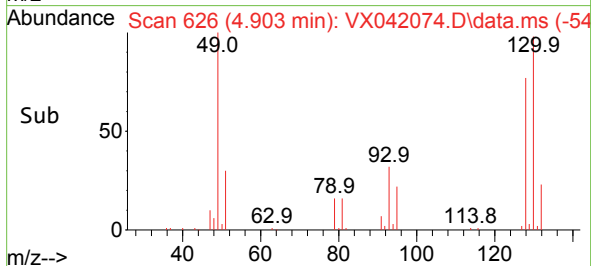


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.903 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX042074.D
Acq: 27 Jun 2024 15:01

Instrument :
MSVOA_X
ClientSampleId :

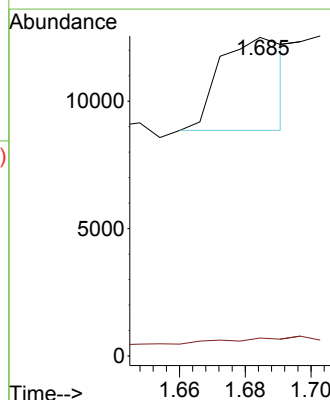
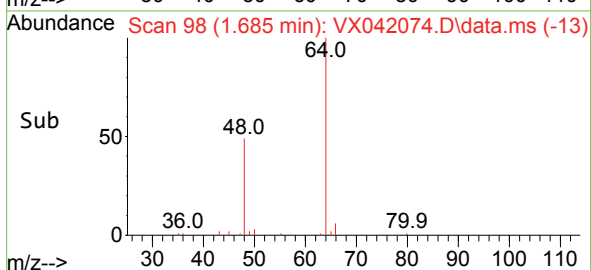
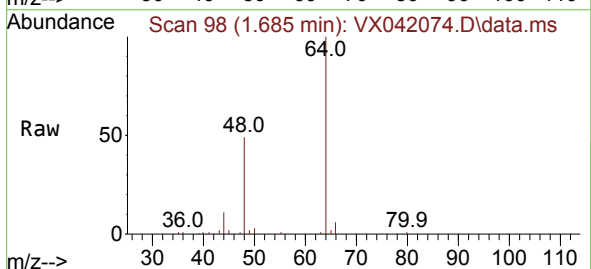


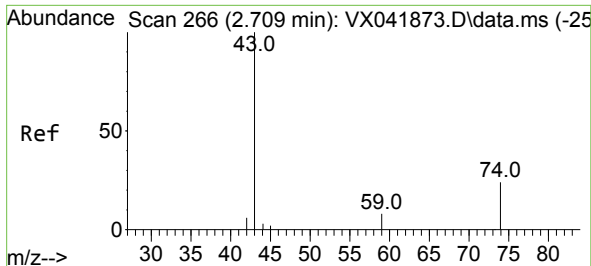
Tgt Ion:128 Resp: 29639
Ion Ratio Lower Upper
128 100
49 132.4 0.0 338.5
130 132.1 0.0 324.5



#6
Chloroethane
Concen: 5.489 ug/l
RT: 1.685 min Scan# 98
Delta R.T. 0.018 min
Lab File: VX042074.D
Acq: 27 Jun 2024 15:01

Tgt Ion: 64 Resp: 4919
Ion Ratio Lower Upper
64 100
66 6.5 26.4 39.6#

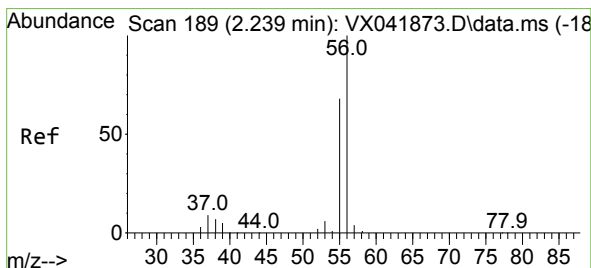
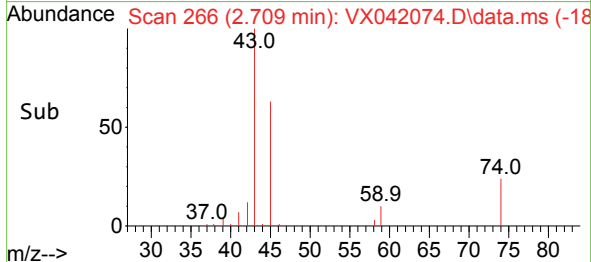
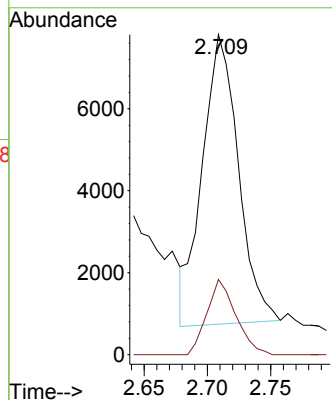
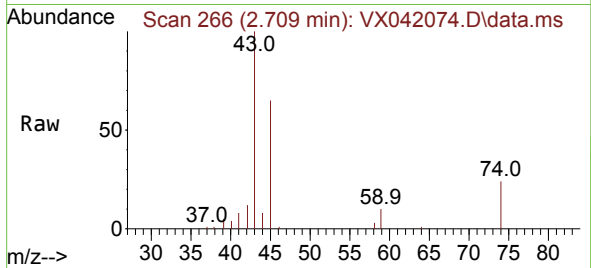




#12
Methyl Acetate
Concen: 6.059 ug/l
RT: 2.709 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX042074.D
Acq: 27 Jun 2024 15:01

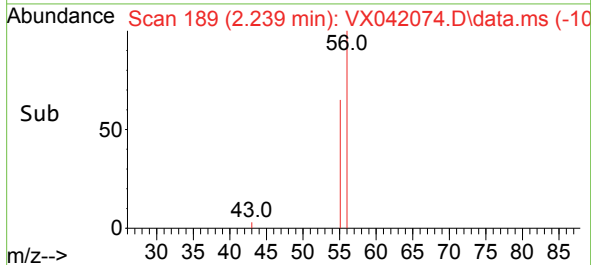
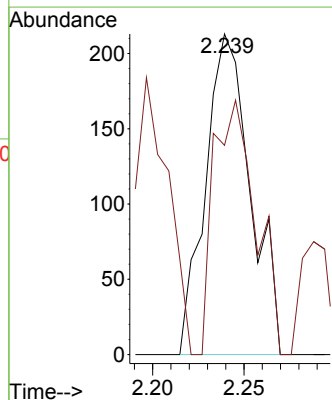
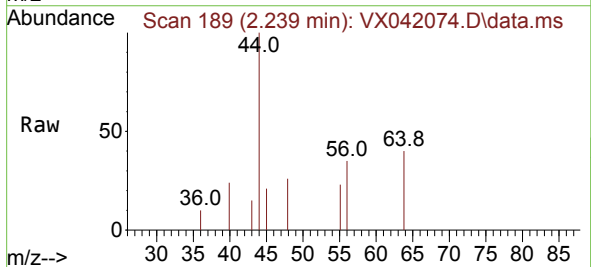
Instrument :
MSVOA_X
ClientSampleId :

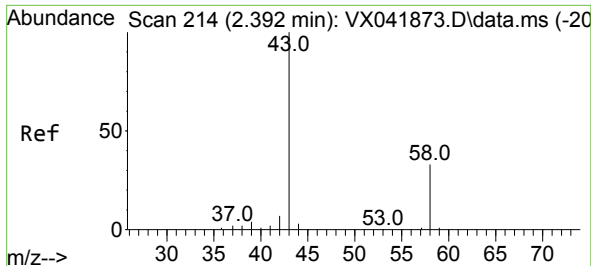
Tgt Ion: 43 Resp: 13993
Ion Ratio Lower Upper
43 100
74 29.0 19.4 29.2



#13
Acrolein
Concen: 0.786 ug/l
RT: 2.239 min Scan# 189
Delta R.T. -0.000 min
Lab File: VX042074.D
Acq: 27 Jun 2024 15:01

Tgt Ion: 56 Resp: 366
Ion Ratio Lower Upper
56 100
55 74.0 55.4 83.0

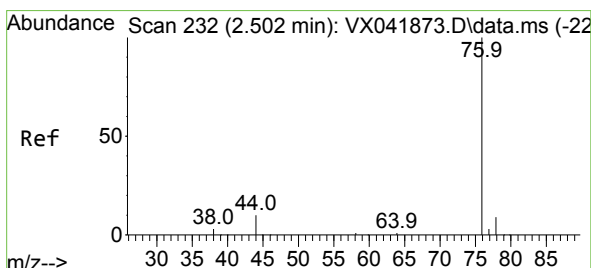
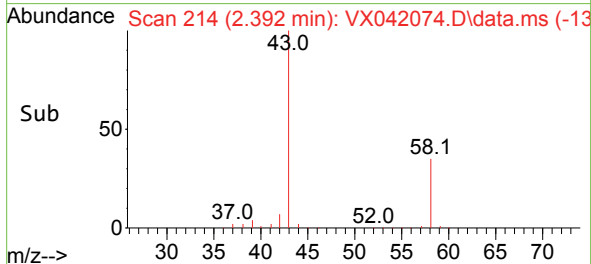
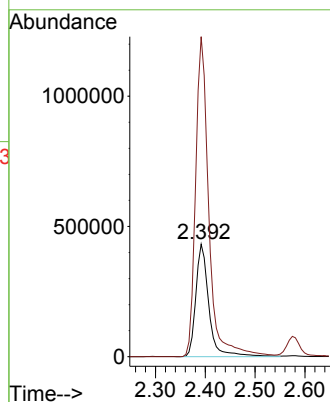
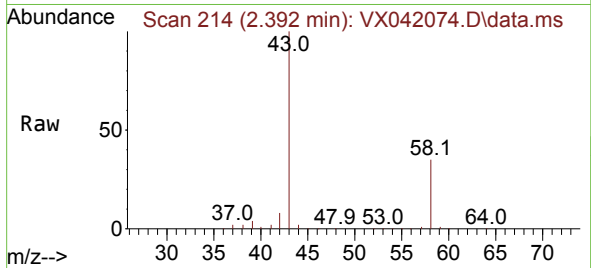




#15
Acetone
Concen: 2512.109 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX042074.D
Acq: 27 Jun 2024 15:01

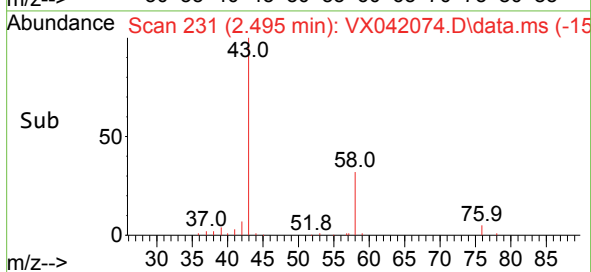
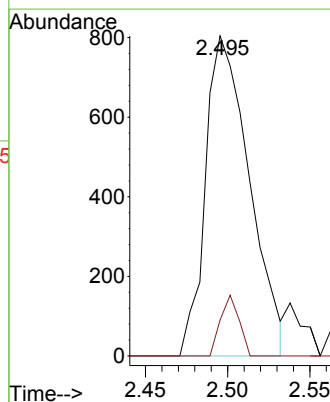
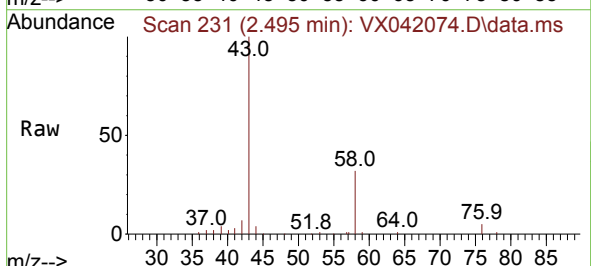
Instrument :
MSVOA_X
ClientSampleId :

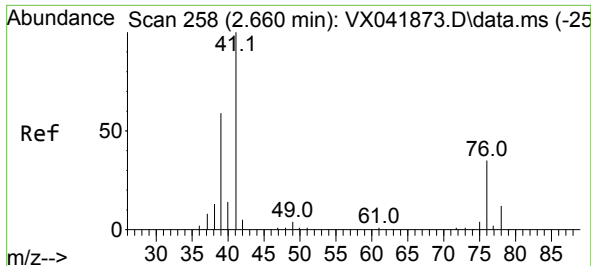
Tgt Ion: 58 Resp: 787696
Ion Ratio Lower Upper
58 100
43 284.8 243.4 365.2



#16
Carbon Disulfide
Concen: 0.376 ug/l
RT: 2.495 min Scan# 231
Delta R.T. -0.006 min
Lab File: VX042074.D
Acq: 27 Jun 2024 15:01

Tgt Ion: 76 Resp: 1491
Ion Ratio Lower Upper
76 100
78 11.2 7.3 10.9#





#17

Allyl chloride

Concen: 0.227 ug/l

RT: 2.709 min Scan# 2

Delta R.T. 0.049 min

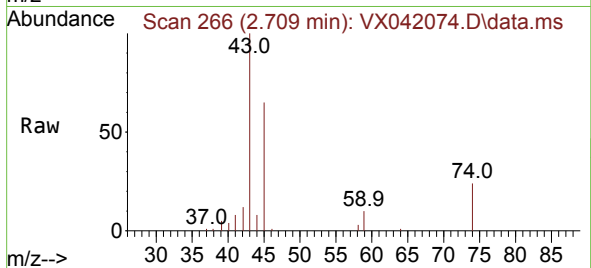
Lab File: VX042074.D

Acq: 27 Jun 2024 15:01

Instrument :

MSVOA_X

ClientSampleId :



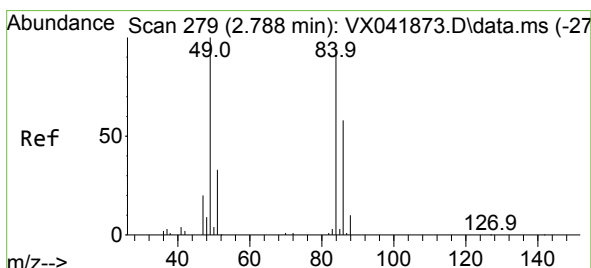
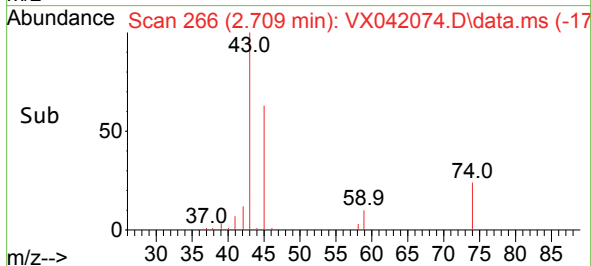
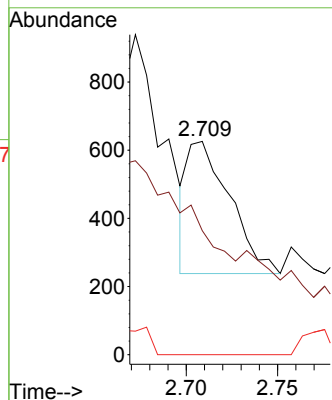
Tgt Ion: 41 Resp: 625

Ion Ratio Lower Upper

41 100

39 37.4 29.6 88.8

76 0.0 18.1 54.4#



#18

Methylene Chloride

Concen: 0.572 ug/l

RT: 2.788 min Scan# 279

Delta R.T. -0.000 min

Lab File: VX042074.D

Acq: 27 Jun 2024 15:01

Tgt Ion: 84 Resp: 1188

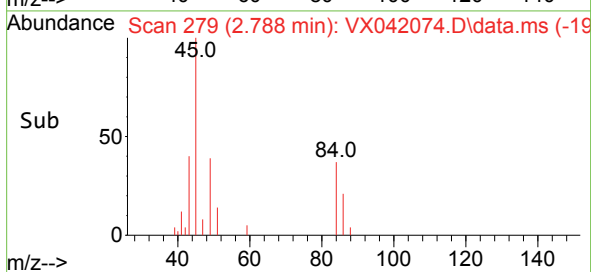
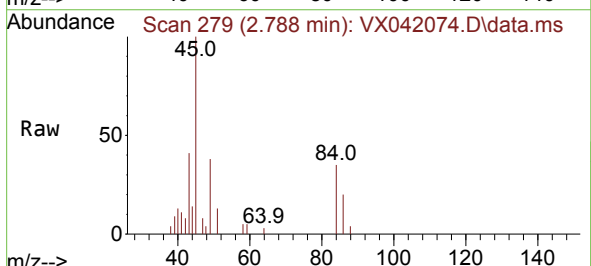
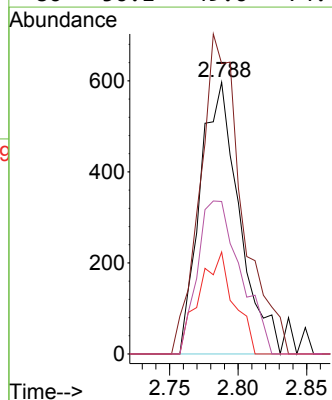
Ion Ratio Lower Upper

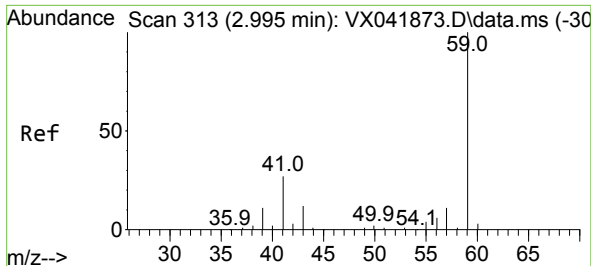
84 100

49 93.3 85.3 127.9

51 37.5 28.5 42.7

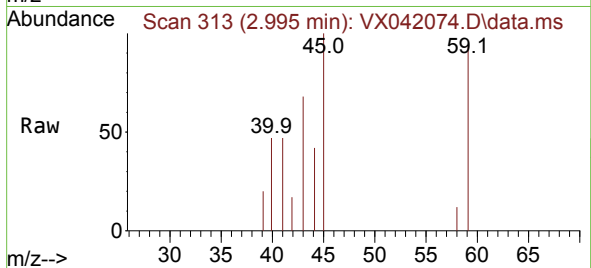
86 56.1 49.6 74.4



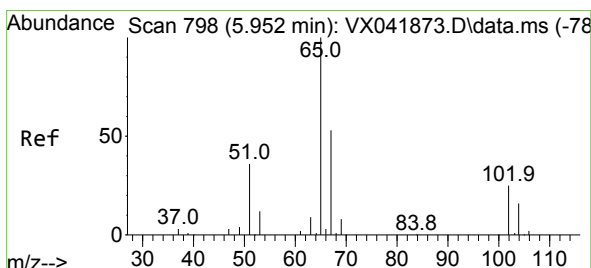
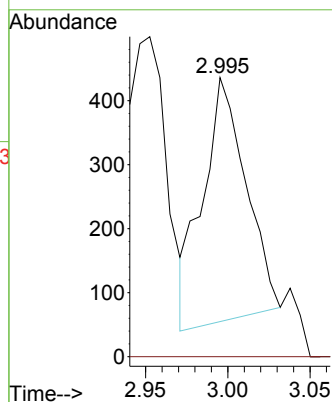
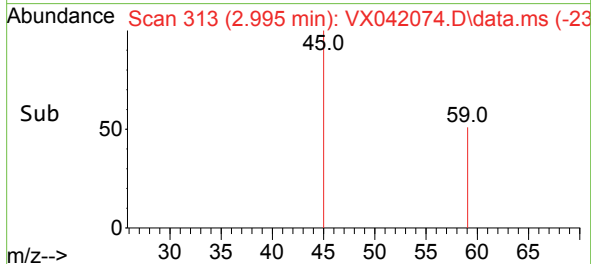


#23
tert-Butyl Alcohol
Concen: 1.708 ug/l
RT: 2.995 min Scan# 313
Delta R.T. -0.000 min
Lab File: VX042074.D
Acq: 27 Jun 2024 15:01

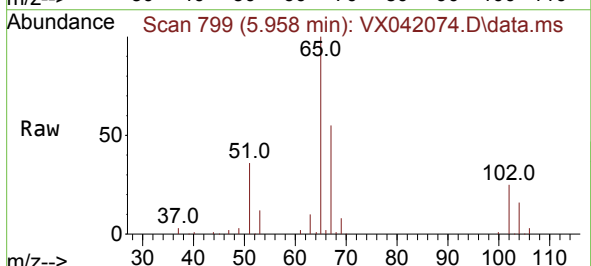
Instrument :
MSVOA_X
ClientSampleId :



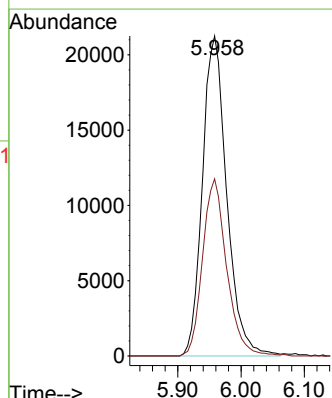
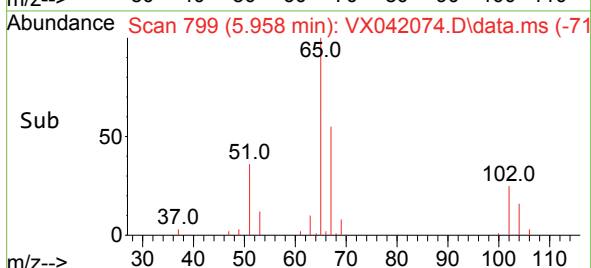
Tgt Ion: 59 Resp: 696
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

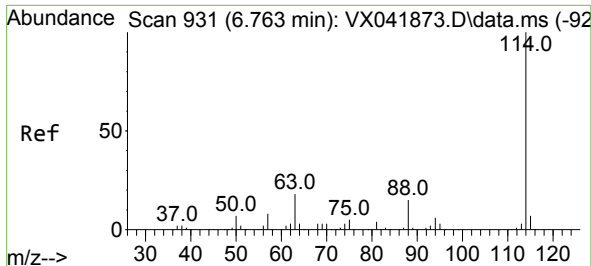


#27
1,2-Dichloroethane-d4
Concen: 27.864 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.006 min
Lab File: VX042074.D
Acq: 27 Jun 2024 15:01



Tgt Ion: 65 Resp: 56851
Ion Ratio Lower Upper
65 100
67 54.7 43.4 65.0

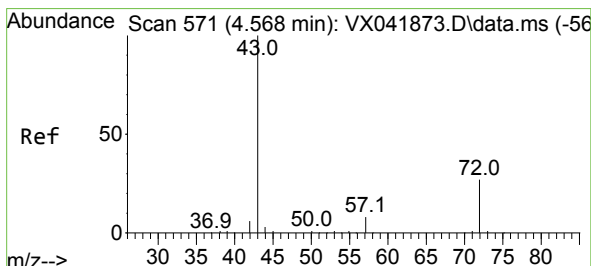
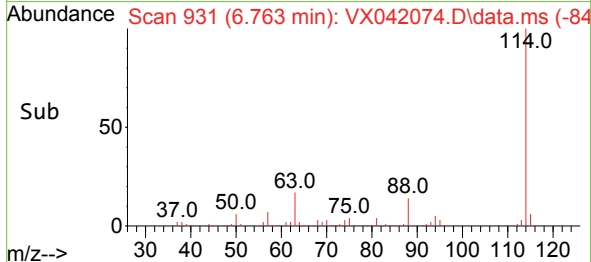
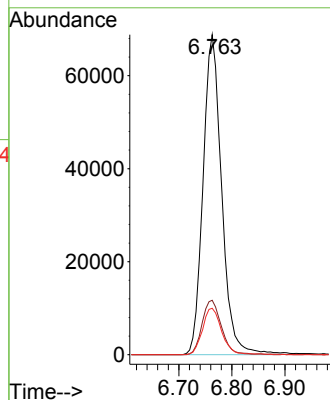
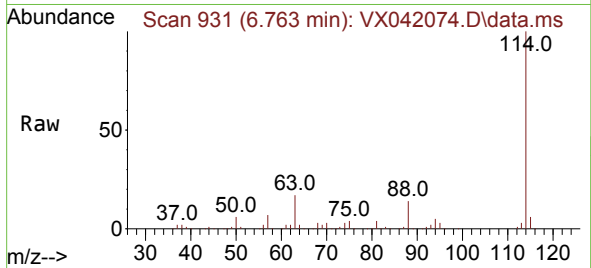




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX042074.D
Acq: 27 Jun 2024 15:01

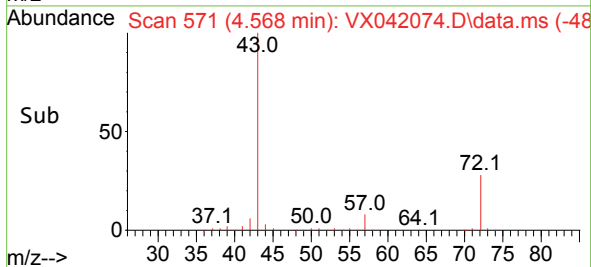
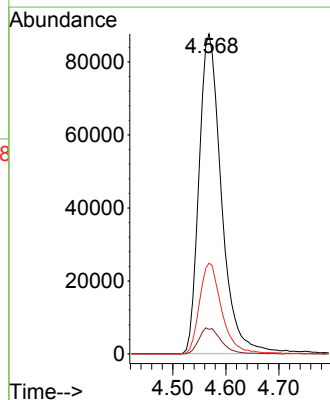
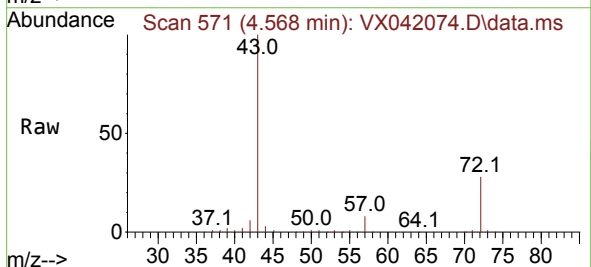
Instrument :
MSVOA_X
ClientSampleId :

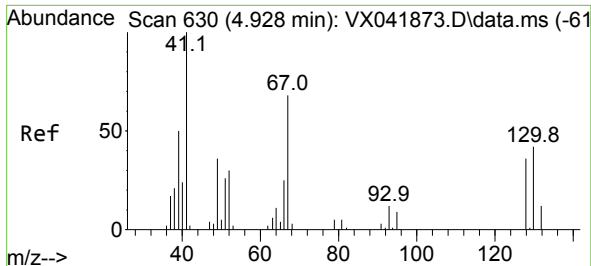
Tgt Ion:114 Resp: 167555
Ion Ratio Lower Upper
114 100
63 17.5 14.6 21.8
88 14.8 11.8 17.8



#30
2-Butanone
Concen: 175.347 ug/l
RT: 4.568 min Scan# 571
Delta R.T. -0.000 min
Lab File: VX042074.D
Acq: 27 Jun 2024 15:01

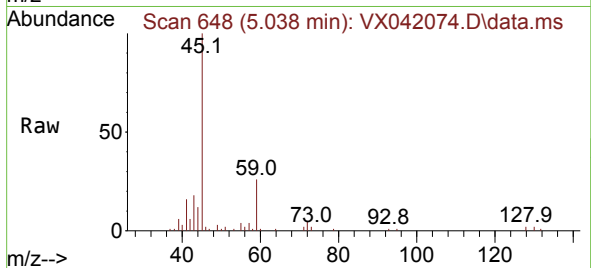
Tgt Ion: 43 Resp: 256219
Ion Ratio Lower Upper
43 100
57 8.1 6.5 9.7
72 28.1 22.0 33.0



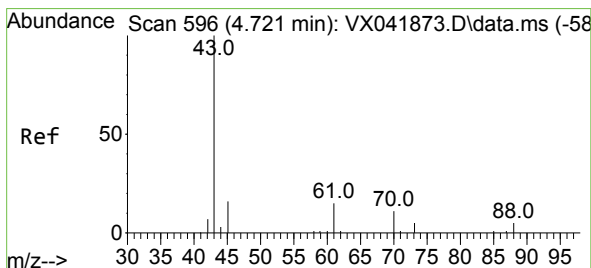
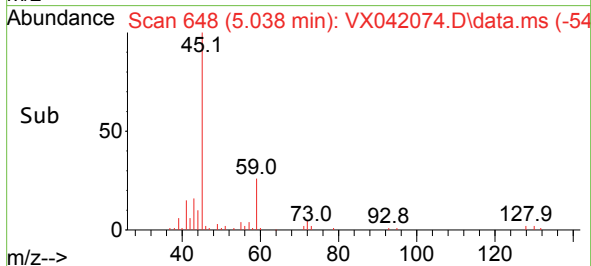
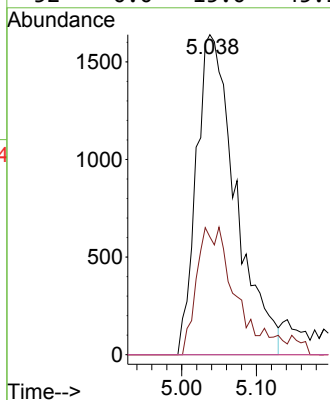


#35
Methacrylonitrile
Concen: 4.091 ug/l
RT: 5.038 min Scan# 648
Delta R.T. 0.110 min
Lab File: VX042074.D
Acq: 27 Jun 2024 15:01

Instrument :
MSVOA_X
ClientSampleId :

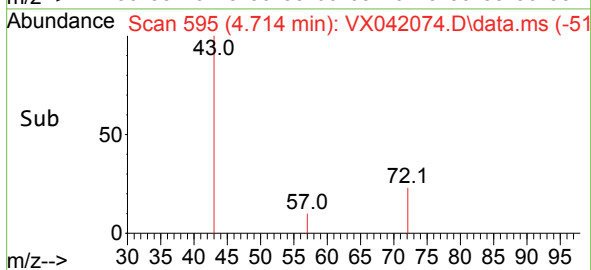
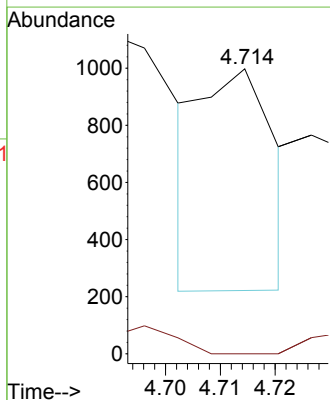
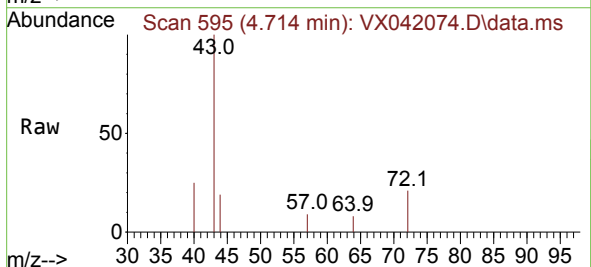


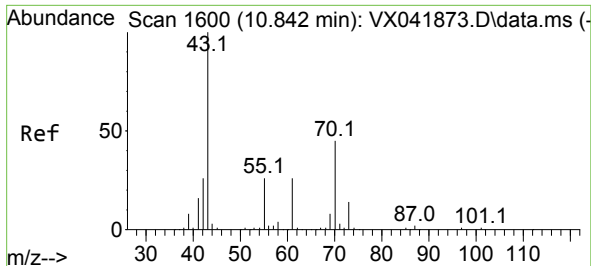
Tgt Ion:	41	Resp:	6005
Ion	Ratio	Lower	Upper
41	100		
39	36.8	25.2	75.6
67	0.0	34.2	102.5#
52	0.0	15.0	45.1#



#43
Ethyl Acetate
Concen: 0.262 ug/l
RT: 4.714 min Scan# 595
Delta R.T. -0.006 min
Lab File: VX042074.D
Acq: 27 Jun 2024 15:01

Tgt Ion:	43	Resp:	717
Ion	Ratio	Lower	Upper
43	100		
45	7.0	12.4	18.6#

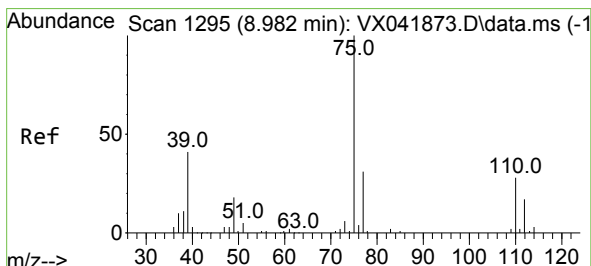
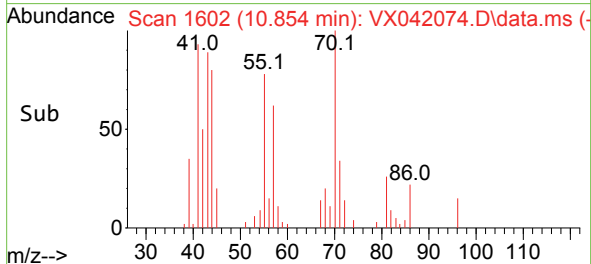
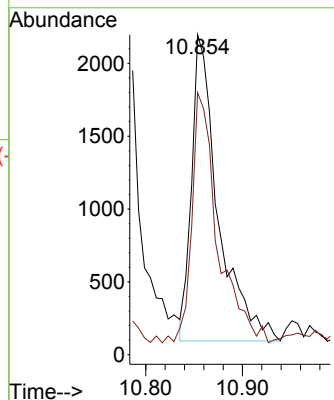
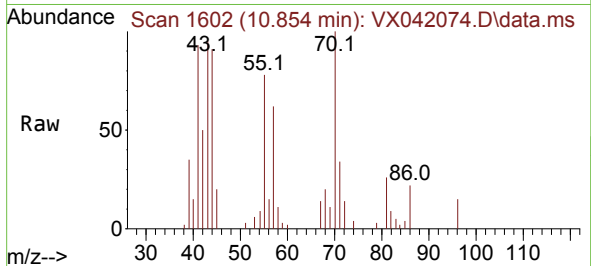




#47
n-amyl acetate
Concen: 1.084 ug/l
RT: 10.854 min Scan# 1602
Delta R.T. 0.012 min
Lab File: VX042074.D
Acq: 27 Jun 2024 15:01

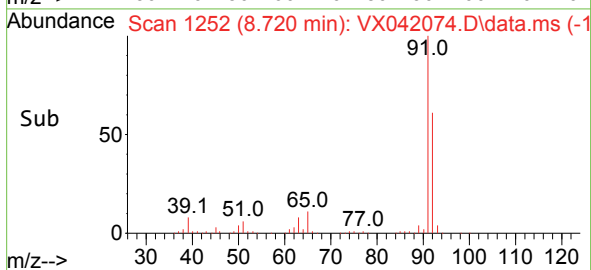
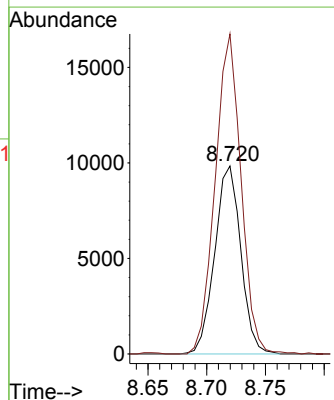
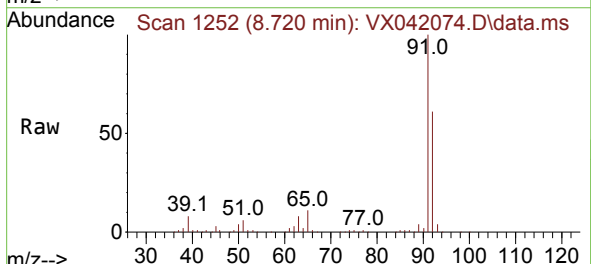
Instrument :
MSVOA_X
ClientSampleId :

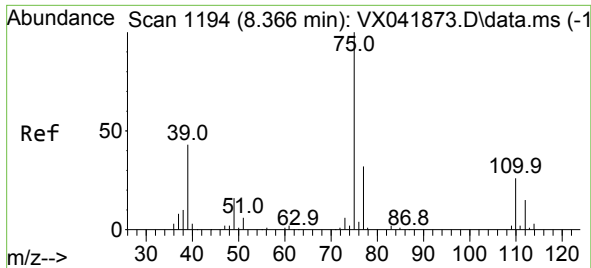
Tgt Ion: 43 Resp: 3994
Ion Ratio Lower Upper
43 100
55 83.7 21.0 31.4#



#48
t-1,3-Dichloropropene
Concen: 6.423 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.262 min
Lab File: VX042074.D
Acq: 27 Jun 2024 15:01

Tgt Ion: 75 Resp: 15208
Ion Ratio Lower Upper
75 100
77 170.2 25.1 37.7#





#49

cis-1,3-Dichloropropene

Concen: 5.726 ug/l

RT: 8.720 min Scan# 1194

Delta R.T. 0.353 min

Lab File: VX042074.D

Acq: 27 Jun 2024 15:01

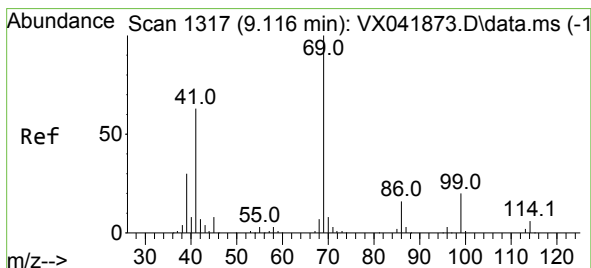
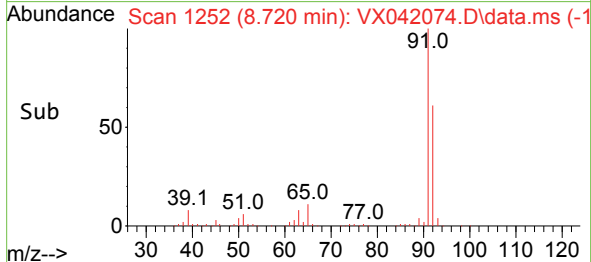
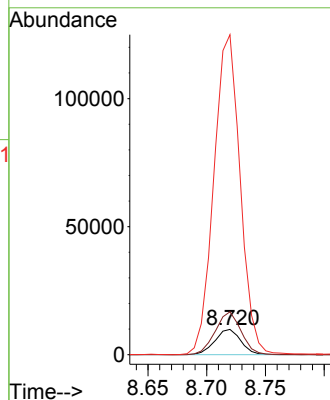
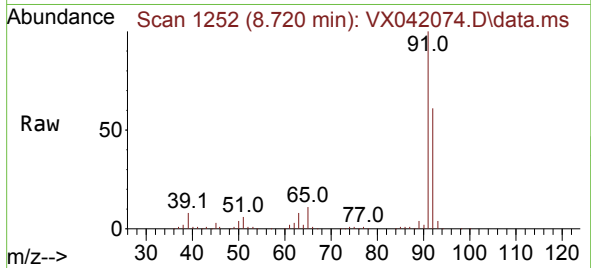
Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion: 75 Resp: 15208

Ion	Ratio	Lower	Upper
75	100		
77	170.2	25.8	38.8#
39	1268.6	34.8	52.2#



#51

Ethyl methacrylate

Concen: 0.281 ug/l

RT: 9.037 min Scan# 1304

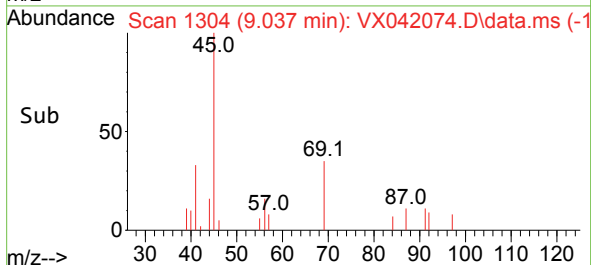
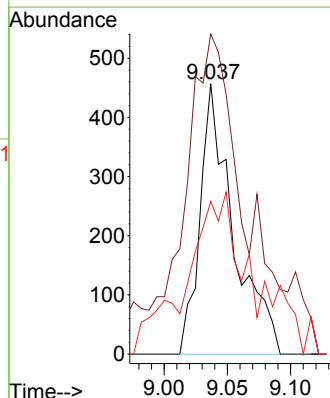
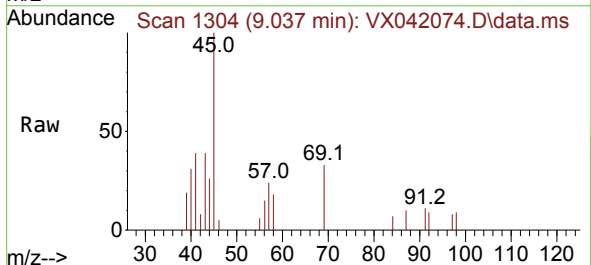
Delta R.T. -0.079 min

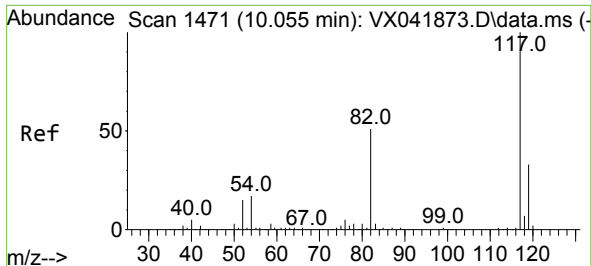
Lab File: VX042074.D

Acq: 27 Jun 2024 15:01

Tgt Ion: 69 Resp: 834

Ion	Ratio	Lower	Upper
69	100		
41	94.5	31.6	94.7
39	41.6	15.3	45.8





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. -0.000 min

Lab File: VX042074.D

Acq: 27 Jun 2024 15:01

Instrument :

MSVOA_X

ClientSampleId :

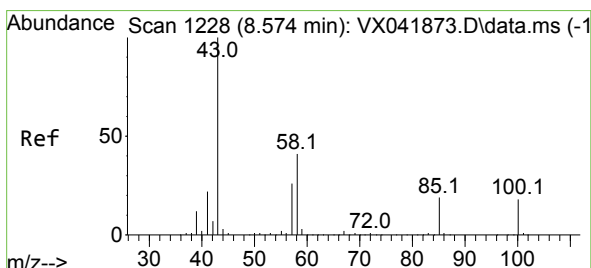
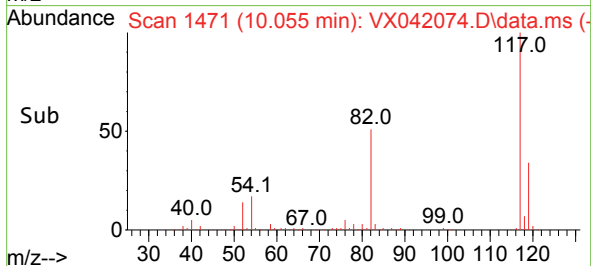
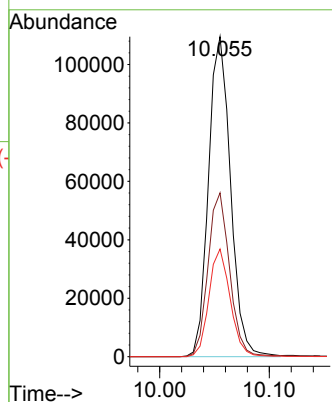
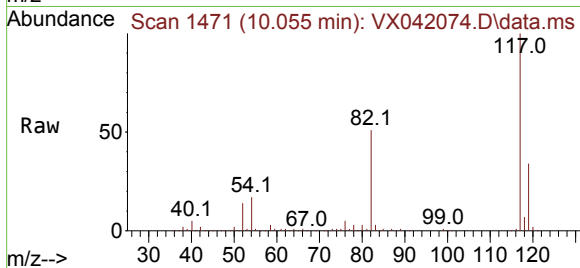
Tgt Ion:117 Resp: 153384

Ion Ratio Lower Upper

117 100

82 50.4 41.1 61.7

119 32.7 26.1 39.1



#58

4-Methyl-2-Pentanone

Concen: 6.731 ug/l

RT: 8.580 min Scan# 1229

Delta R.T. 0.006 min

Lab File: VX042074.D

Acq: 27 Jun 2024 15:01

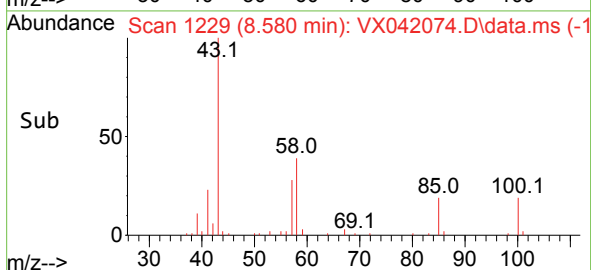
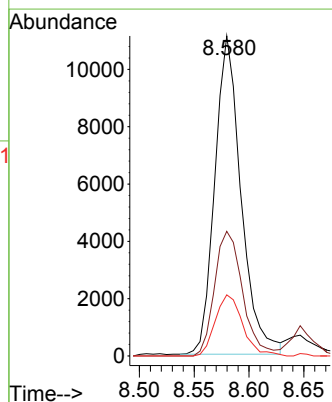
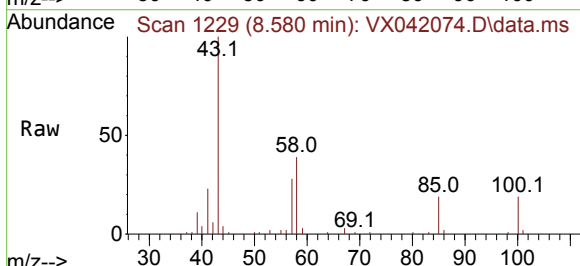
Tgt Ion: 43 Resp: 18501

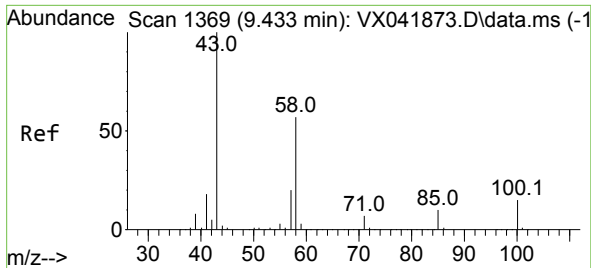
Ion Ratio Lower Upper

43 100

58 41.6 33.2 49.8

85 19.5 15.5 23.3

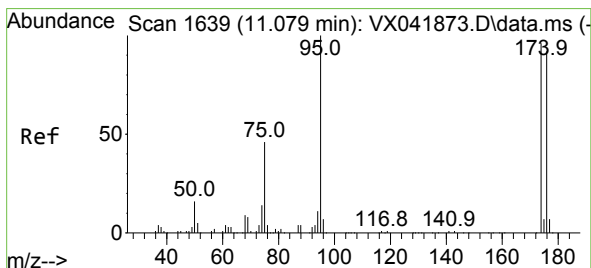
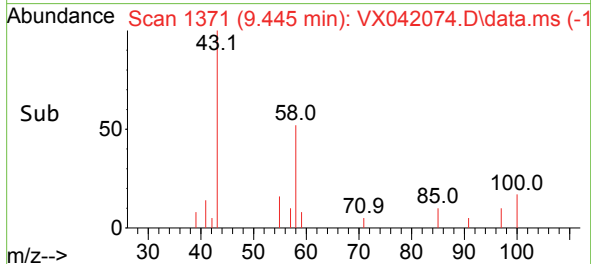
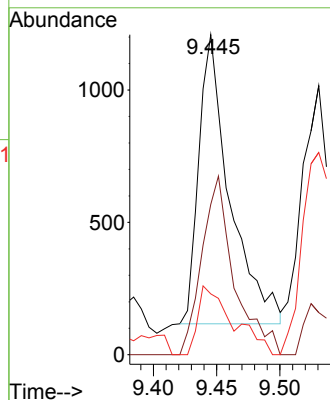
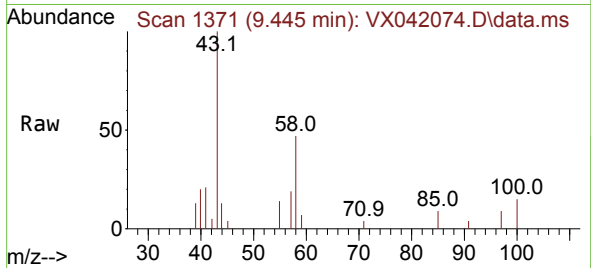




#59
2-Hexanone
Concen: 0.875 ug/l
RT: 9.445 min Scan# 11
Delta R.T. 0.012 min
Lab File: VX042074.D
Acq: 27 Jun 2024 15:01

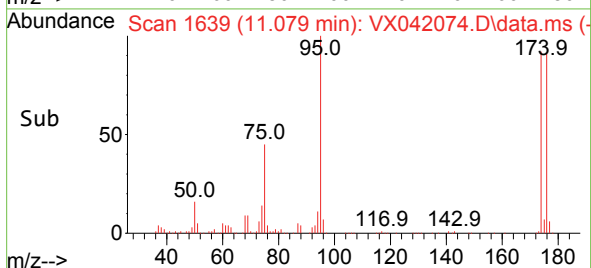
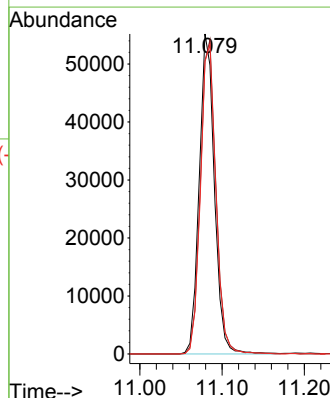
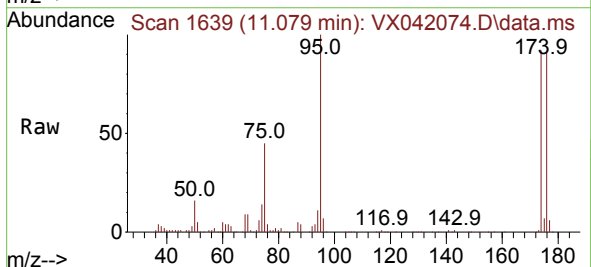
Instrument :
MSVOA_X
ClientSampleId :

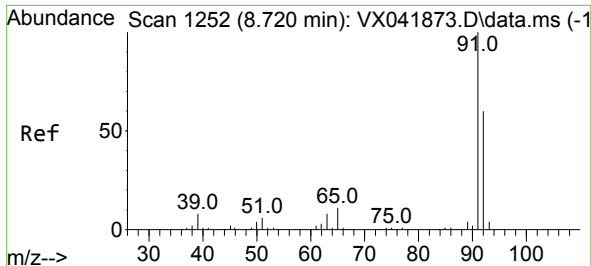
Tgt Ion: 43 Resp: 1856
Ion Ratio Lower Upper
43 100
58 64.7 46.0 69.0
57 20.4 15.8 23.6



#60
4-Bromofluorobenzene
Concen: 29.843 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX042074.D
Acq: 27 Jun 2024 15:01

Tgt Ion: 95 Resp: 70855
Ion Ratio Lower Upper
95 100
174 99.9 78.9 118.3
176 97.8 77.1 115.7

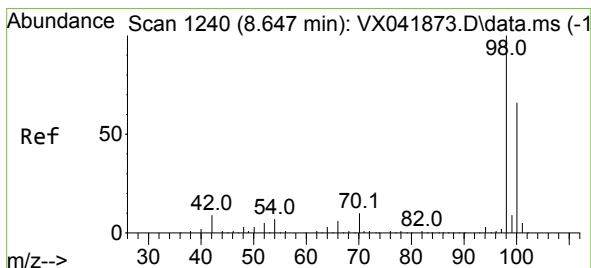
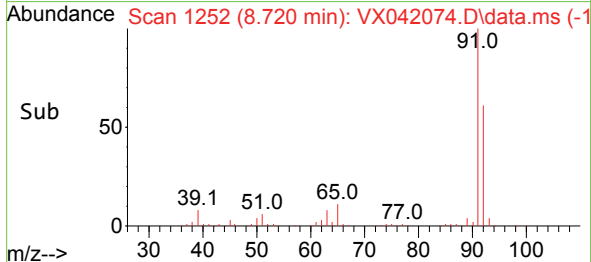
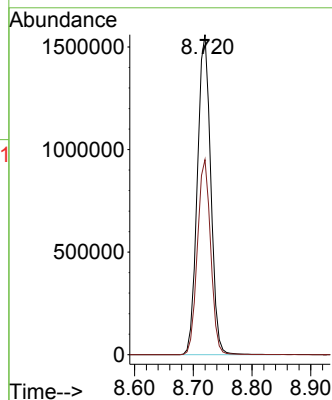
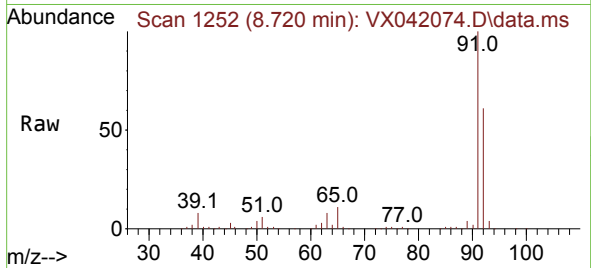




#62
Toluene
Concen: 317.319 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX042074.D
Acq: 27 Jun 2024 15:01

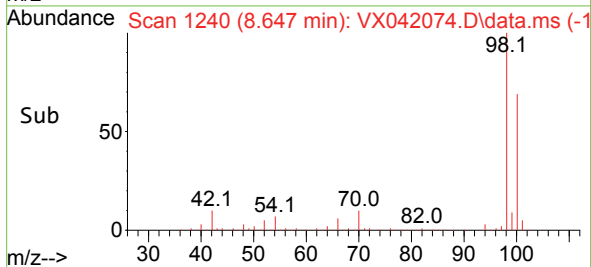
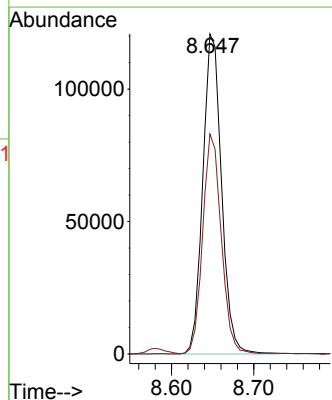
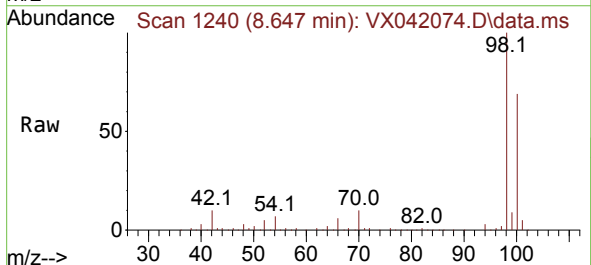
Instrument :
MSVOA_X
ClientSampleId :

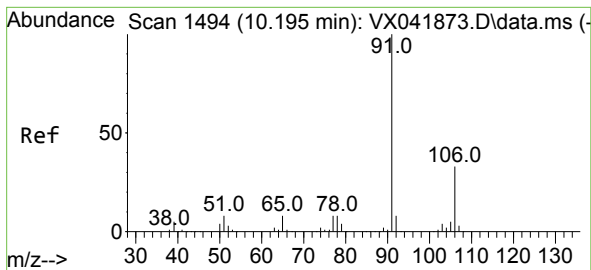
Tgt Ion: 91 Resp: 2462952
Ion Ratio Lower Upper
91 100
92 60.4 47.4 71.2



#63
Toluene-d8
Concen: 29.097 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX042074.D
Acq: 27 Jun 2024 15:01

Tgt Ion: 98 Resp: 190941
Ion Ratio Lower Upper
98 100
100 67.8 52.7 79.1





#66

Ethyl Benzene

Concen: 0.353 ug/l

RT: 10.201 min Scan# 1494

Delta R.T. 0.006 min

Lab File: VX042074.D

Acq: 27 Jun 2024 15:01

Instrument :

MSVOA_X

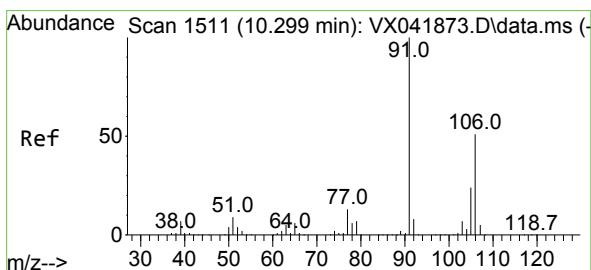
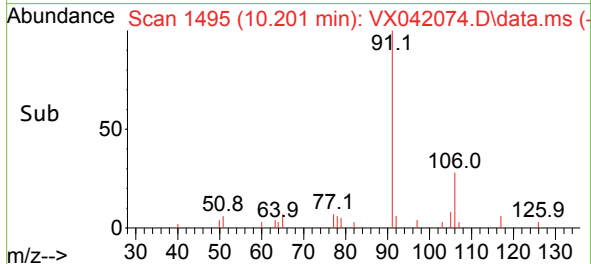
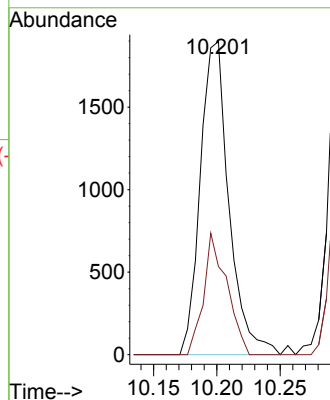
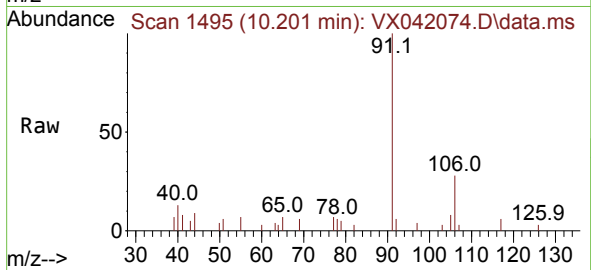
ClientSampleId :

Tgt Ion: 91 Resp: 2993

Ion Ratio Lower Upper

91 100

106 28.1 26.4 39.6



#67

m/p-Xylenes

Concen: 0.809 ug/l

RT: 10.305 min Scan# 1512

Delta R.T. 0.006 min

Lab File: VX042074.D

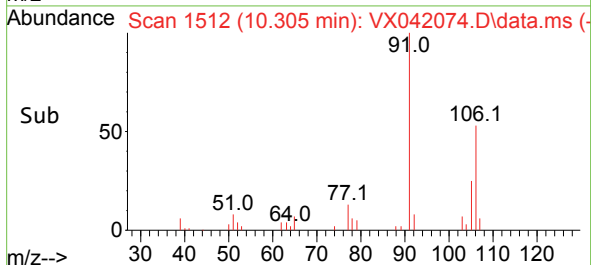
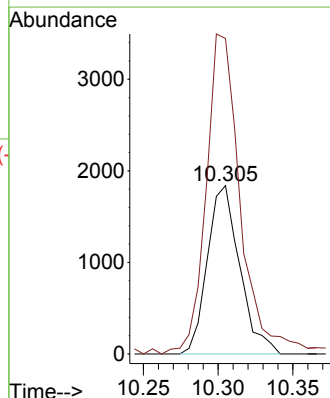
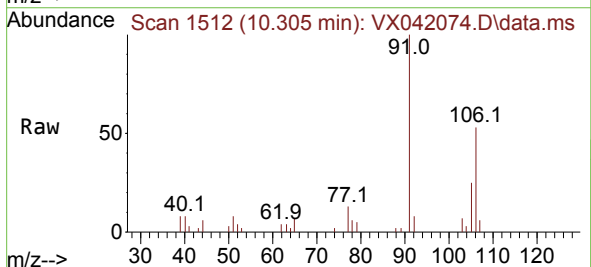
Acq: 27 Jun 2024 15:01

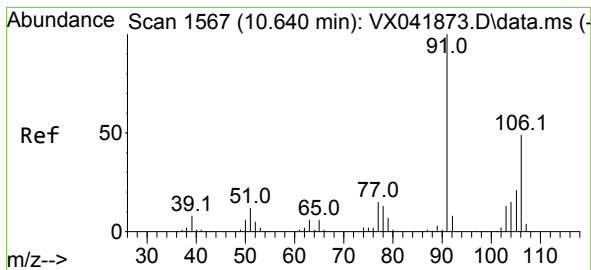
Tgt Ion: 106 Resp: 2763

Ion Ratio Lower Upper

106 100

91 201.1 157.0 235.6





#68

o-Xylene

Concen: 0.361 ug/l

RT: 10.646 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX042074.D

Acq: 27 Jun 2024 15:01

Instrument :

MSVOA_X

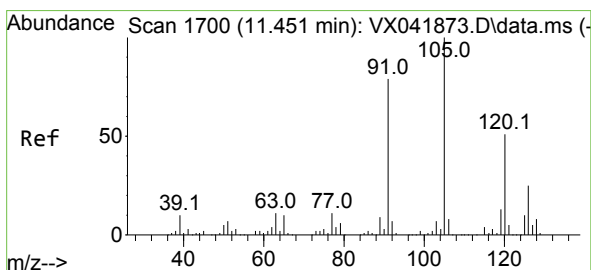
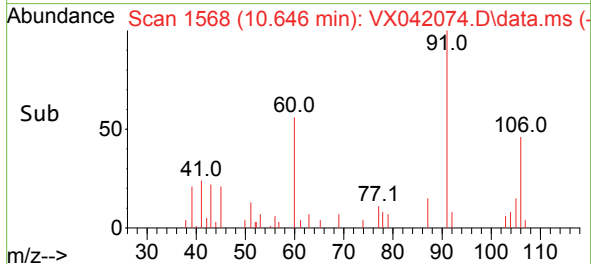
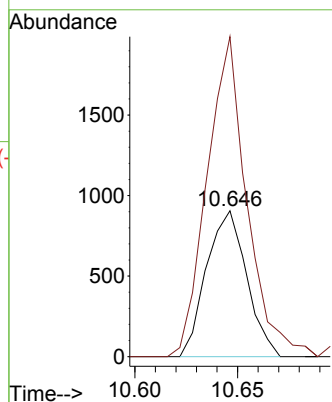
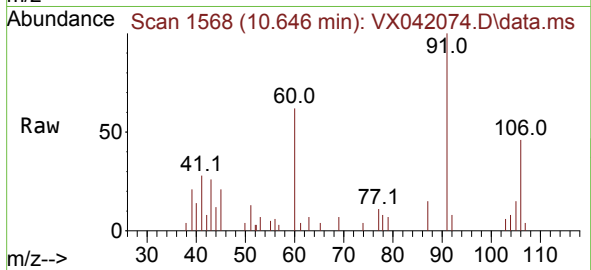
ClientSampleId :

Tgt Ion:106 Resp: 1230

Ion Ratio Lower Upper

106 100

91 218.0 103.2 309.6



#76

1,3,5-Trimethylbenzene

Concen: 0.245 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. -0.000 min

Lab File: VX042074.D

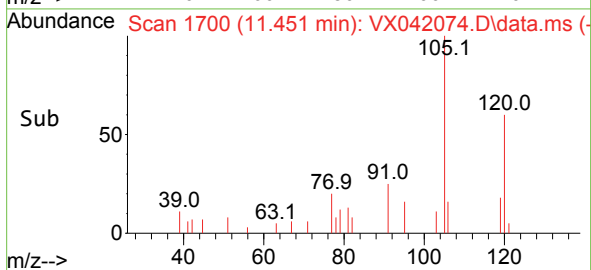
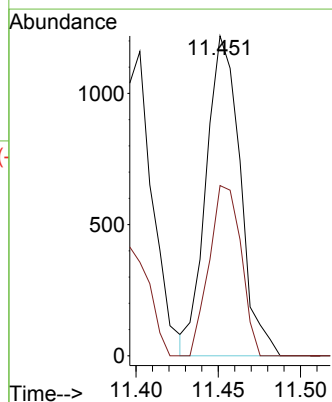
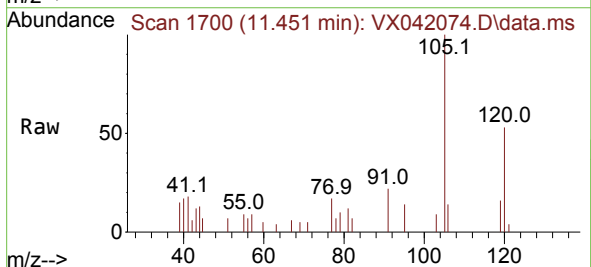
Acq: 27 Jun 2024 15:01

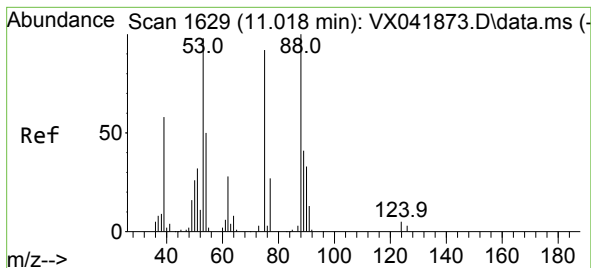
Tgt Ion:105 Resp: 1759

Ion Ratio Lower Upper

105 100

120 49.7 0.0 103.0

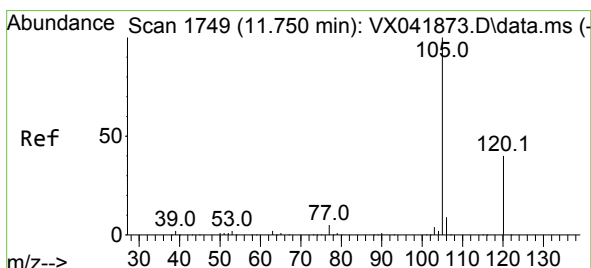
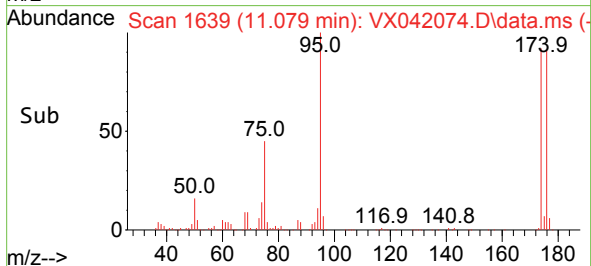
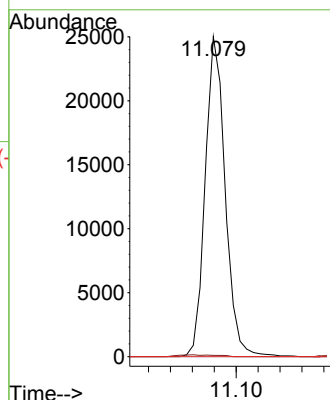
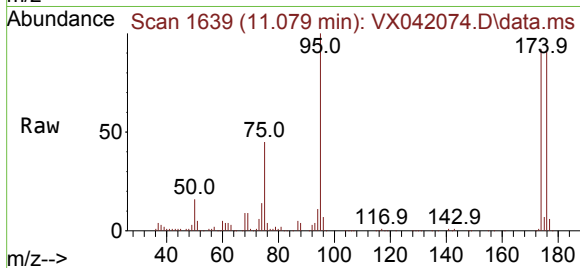




#77
t-1,4-Dichloro-2-butene
Concen: 35.684 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX042074.D
Acq: 27 Jun 2024 15:01

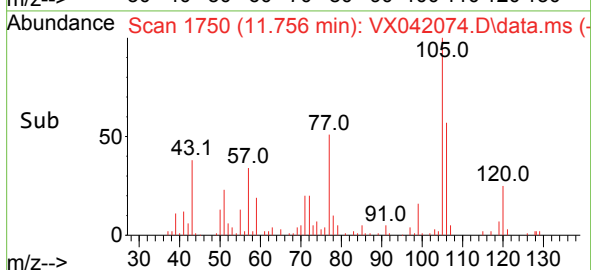
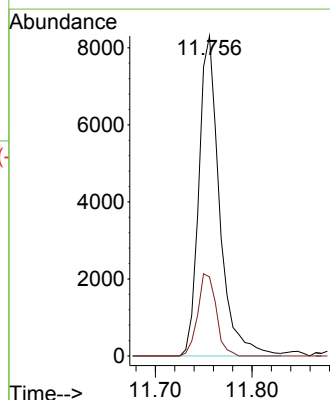
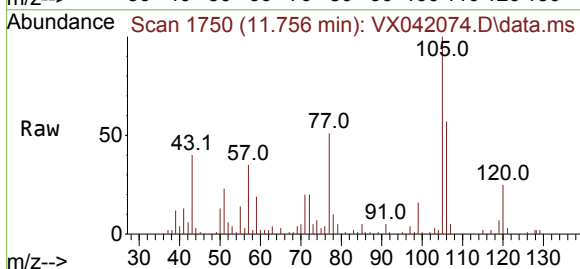
Instrument :
MSVOA_X
ClientSampleId :

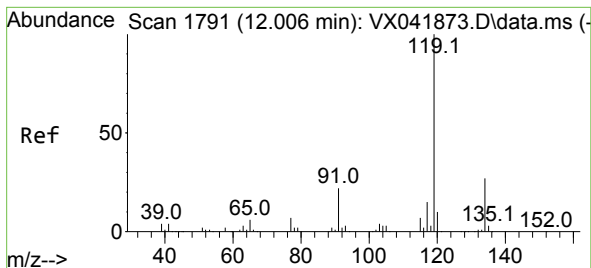
Tgt Ion: 75 Resp: 31662
Ion Ratio Lower Upper
75 100
53 0.4 53.4 160.2#
89 0.0 22.5 67.5#



#80
1,2,4-Trimethylbenzene
Concen: 1.728 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX042074.D
Acq: 27 Jun 2024 15:01

Tgt Ion: 105 Resp: 12377
Ion Ratio Lower Upper
105 100
120 22.9 0.0 96.2





#82

p-Isopropyltoluene

Concen: 4.472 ug/l

RT: 12.012 min Scan# 1792

Delta R.T. 0.006 min

Lab File: VX042074.D

Acq: 27 Jun 2024 15:01

Instrument :

MSVOA_X

ClientSampleId :

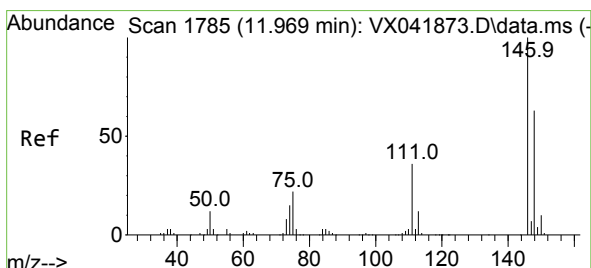
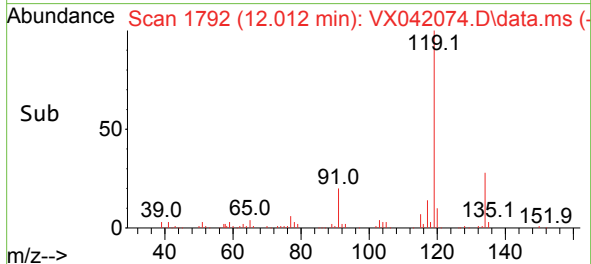
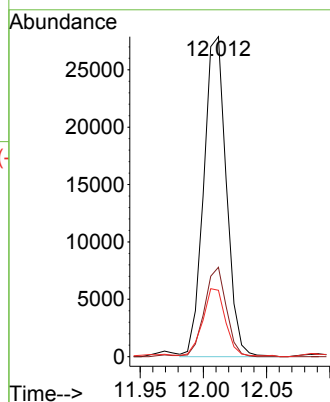
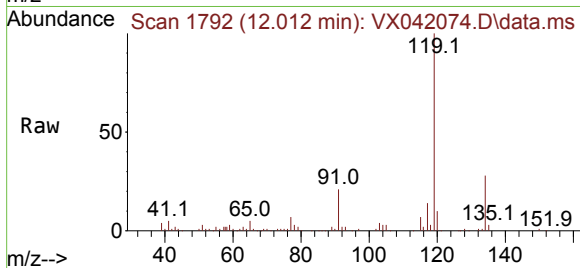
Tgt Ion:119 Resp: 34782

Ion Ratio Lower Upper

119 100

134 27.0 0.0 54.0

91 21.2 0.0 42.2



#83

1,3-Dichlorobenzene

Concen: 0.493 ug/l

RT: 12.042 min Scan# 1797

Delta R.T. 0.073 min

Lab File: VX042074.D

Acq: 27 Jun 2024 15:01

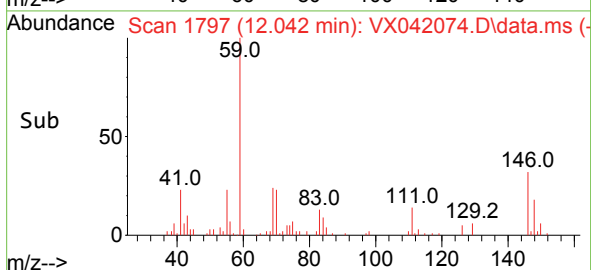
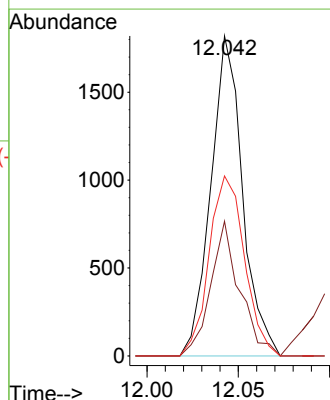
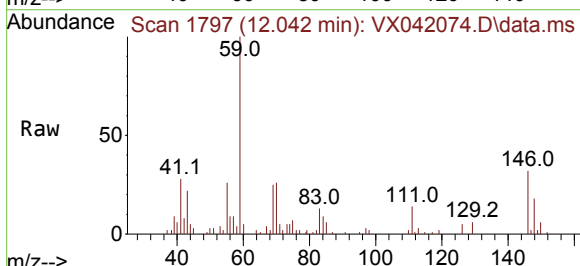
Tgt Ion:146 Resp: 2195

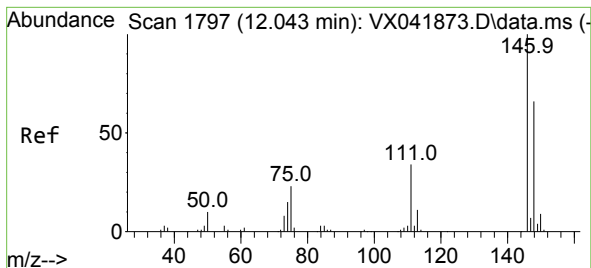
Ion Ratio Lower Upper

146 100

111 38.8 18.0 54.0

148 62.8 31.9 95.7





#84

1,4-Dichlorobenzene

Concen: 0.496 ug/l

RT: 12.042 min Scan# 1797

Delta R.T. -0.000 min

Lab File: VX042074.D

Acq: 27 Jun 2024 15:01

Instrument :

MSVOA_X

ClientSampleId :

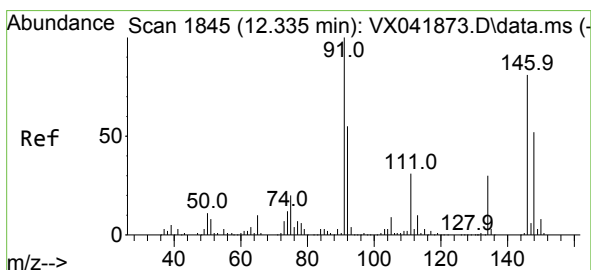
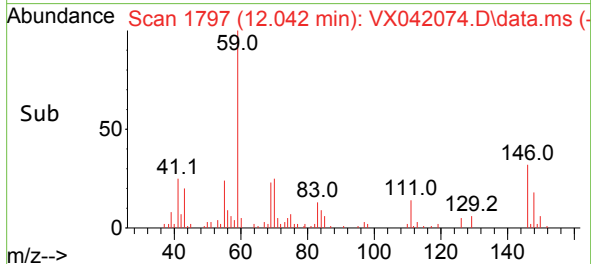
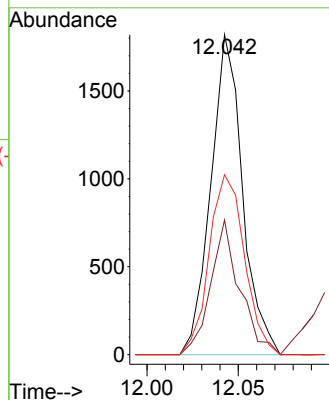
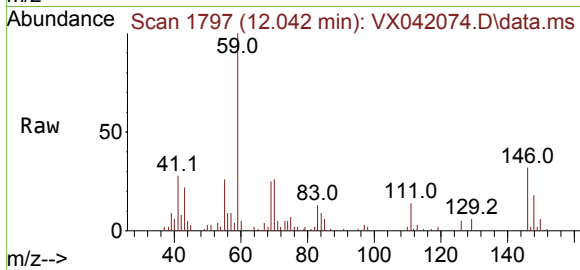
Tgt Ion:146 Resp: 2195

Ion Ratio Lower Upper

146 100

111 38.8 17.4 52.3

148 62.8 32.3 96.9



#87

1,2-Dichlorobenzene

Concen: 0.488 ug/l

RT: 12.042 min Scan# 1797

Delta R.T. -0.293 min

Lab File: VX042074.D

Acq: 27 Jun 2024 15:01

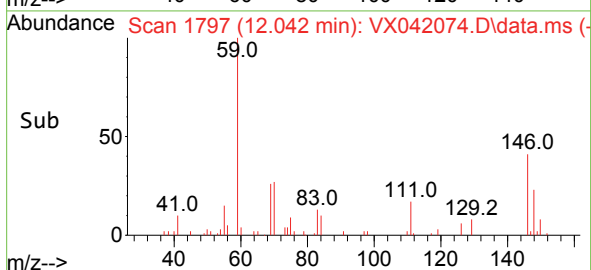
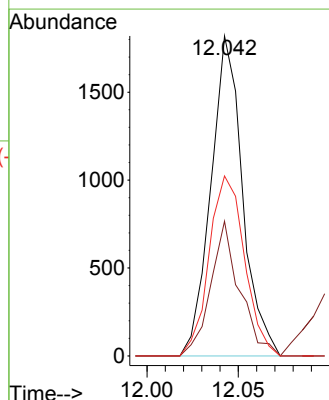
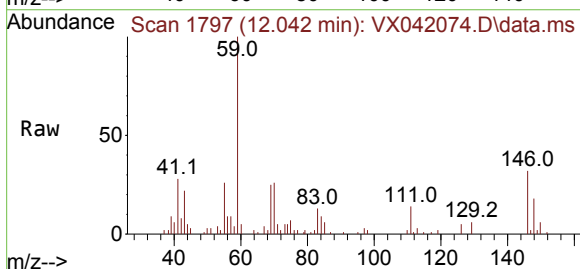
Tgt Ion:146 Resp: 2195

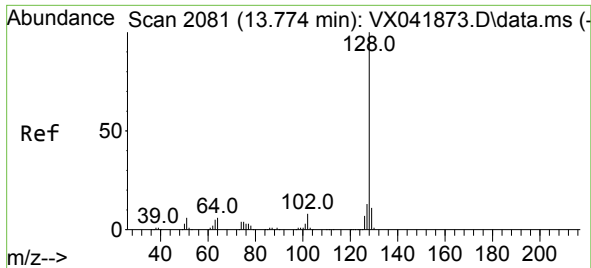
Ion Ratio Lower Upper

146 100

111 38.8 19.1 57.3

148 62.8 32.4 97.0





#91

Naphthalene

Concen: 0.990 ug/l

RT: 13.780 min Scan# 2082

Delta R.T. 0.006 min

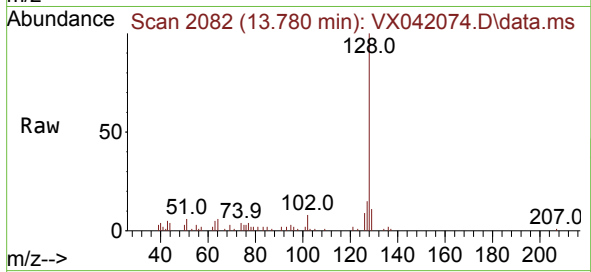
Lab File: VX042074.D

Acq: 27 Jun 2024 15:01

Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion:128 Resp: 9110

Ion Ratio Lower Upper

128 100

127 15.0 10.4 15.6

129 12.1 8.7 13.1

