

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX020923\
 Data File : VX034070.D
 Acq On : 07 Feb 2023 18:48
 Operator : JC/MD
 Sample : 01437-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 2423

Quant Time: Feb 08 00:07:02 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X020423W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 03 23:25:45 2023
 Response via : Initial Calibration

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

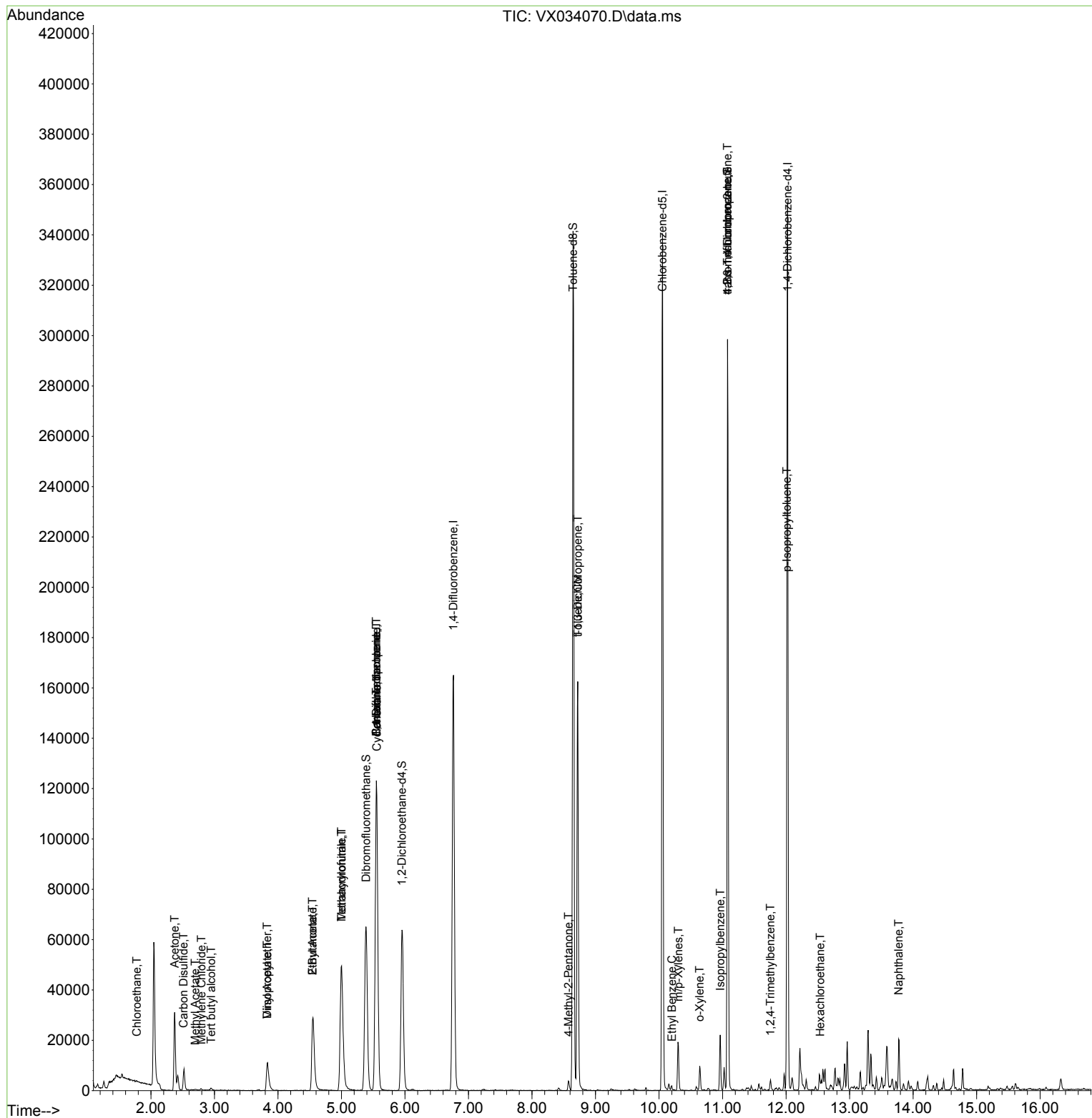
Internal Standards						
1) Pentafluorobenzene	5.550	168	132390	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	182275	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	165854	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	84552	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	63923	50.084	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 100.160%	
35) Dibromofluoromethane	5.385	113	57824	49.846	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 99.700%	
50) Toluene-d8	8.647	98	209831	50.204	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 100.400%	
62) 4-Bromofluorobenzene	11.079	95	75213	50.385	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 100.780%	
Target Compounds						
					Qvalue	
6) Chloroethane	1.776	64	2136	3.632	ug/l #	44
11) Tert butyl alcohol	2.946	59	797	4.457	ug/l #	94
16) Acetone	2.373	43	33390	61.941	ug/l	91
17) Carbon Disulfide	2.514	76	4275	1.554	ug/l	96
18) Methyl Acetate	2.696	43	390	0.233	ug/l #	53
20) Methylene Chloride	2.794	84	302	0.245	ug/l #	41
22) Diisopropyl ether	3.830	45	756	0.217	ug/l #	1
23) Vinyl Acetate	3.830	43	1798	0.677	ug/l #	72
25) 2-Butanone	4.544	43	53529	68.195	ug/l	95
29) Tetrahydrofuran	5.001	42	47797	95.741	ug/l	95
31) Cyclohexane	5.556	56	1910	1.028	ug/l #	1
36) 1,1-Dichloropropene	5.550	75	7774	4.888	ug/l #	48
37) Ethyl Acetate	4.544	43	53529	36.128	ug/l #	68
38) Carbon Tetrachloride	5.550	117	11656	6.871	ug/l #	16
41) Methacrylonitrile	5.001	41	27400	32.861	ug/l #	46
51) 4-Methyl-2-Pentanone	8.573	43	2386	1.646	ug/l	100
52) Toluene	8.720	92	64288	21.556	ug/l	97
53) t-1,3-Dichloropropene	8.720	75	685	0.442	ug/l #	1
67) Ethyl Benzene	10.201	91	1441	0.249	ug/l	93
68) m/p-Xylenes	10.305	106	5001	2.158	ug/l	99
69) o-Xylene	10.640	106	2261	1.016	ug/l	95
73) Isopropylbenzene	10.963	105	11670	2.065	ug/l	99
76) 1,2,3-Trichloropropane	11.079	75	35271	24.294	ug/l #	34
81) trans-1,4-Dichloro-2-b...	11.079	75	35271	74.818	ug/l #	8
84) 1,2,4-Trimethylbenzene	11.756	105	2001	0.426	ug/l	87
86) p-Isopropyltoluene	12.012	119	5548	1.088	ug/l	97
90) Hexachloroethane	12.536	117	274	0.341	ug/l #	4
95) Naphthalene	13.774	128	13915	2.556	ug/l	99

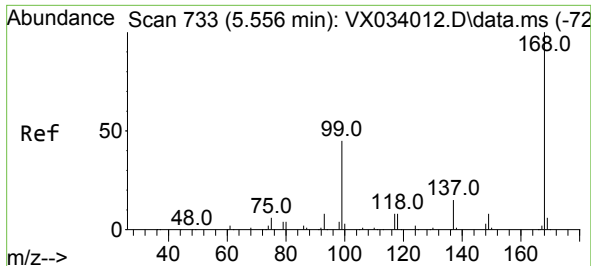
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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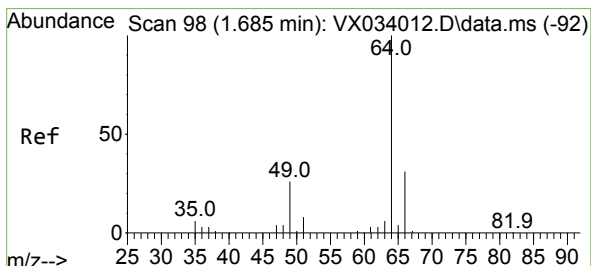
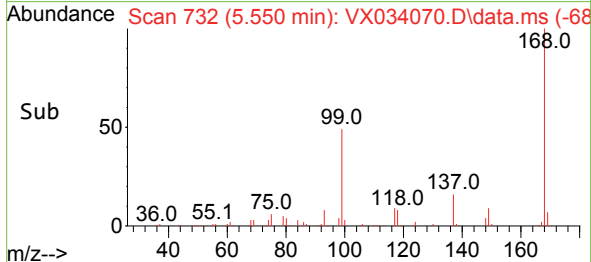
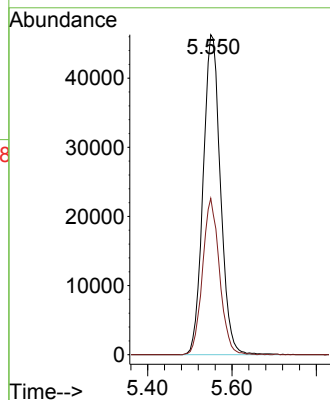
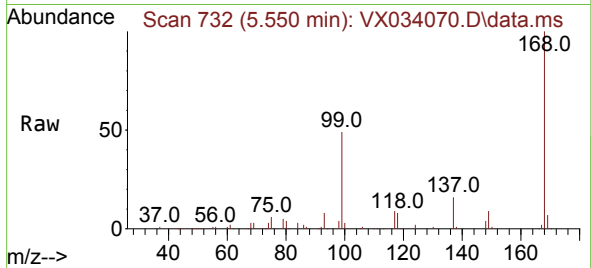




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX034070.D
Acq: 07 Feb 2023 18:48

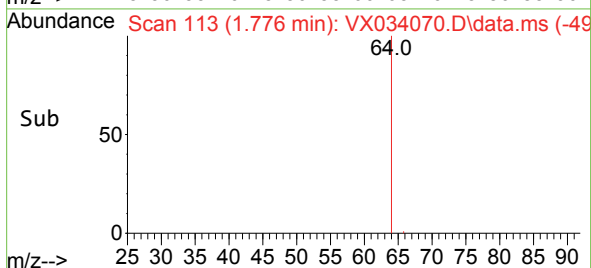
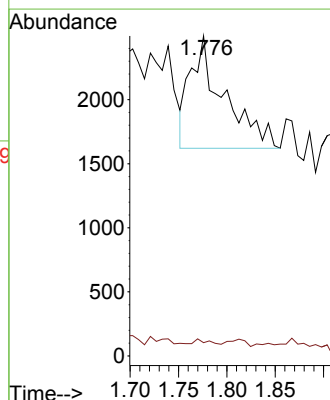
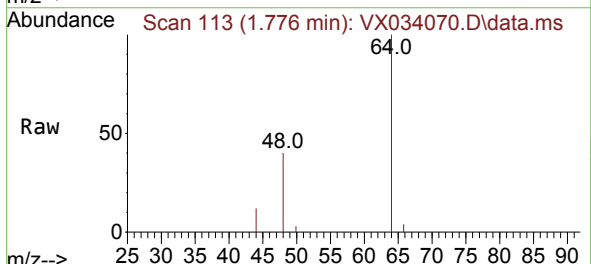
Instrument :
MSVOA_X
ClientSampleId :
2423

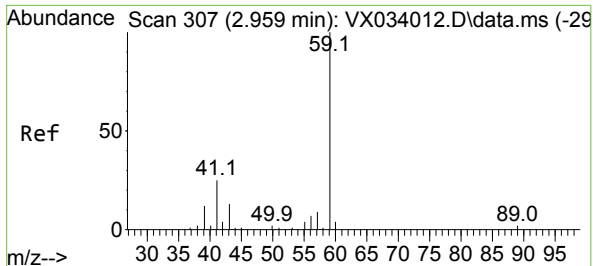
Tgt Ion:168 Resp: 132390
Ion Ratio Lower Upper
168 100
99 48.9 39.6 59.4



#6
Chloroethane
Concen: 3.632 ug/l
RT: 1.776 min Scan# 113
Delta R.T. 0.091 min
Lab File: VX034070.D
Acq: 07 Feb 2023 18:48

Tgt Ion: 64 Resp: 2136
Ion Ratio Lower Upper
64 100
66 1.3 26.1 39.1#





#11

Tert butyl alcohol

Concen: 4.457 ug/l

RT: 2.946 min Scan# 307

Delta R.T. -0.012 min

Lab File: VX034070.D

Acq: 07 Feb 2023 18:48

Instrument :

MSVOA_X

ClientSampleId :

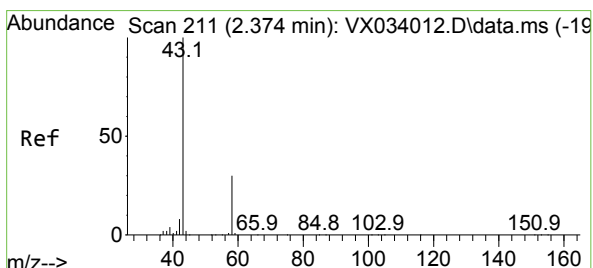
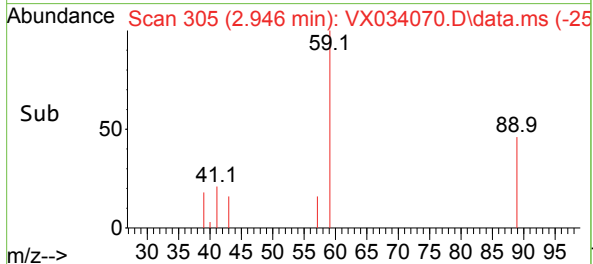
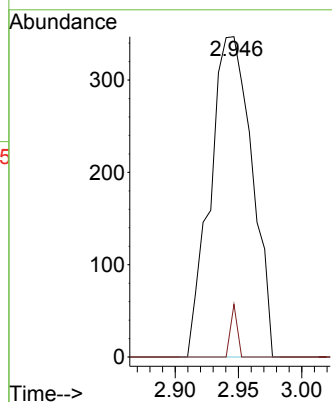
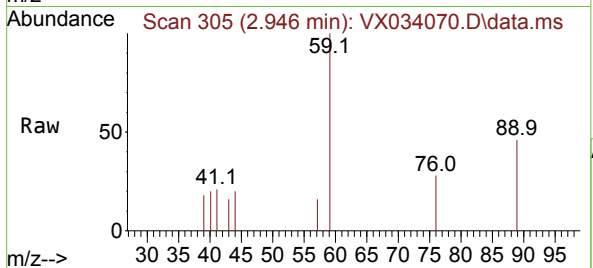
2423

Tgt Ion: 59 Resp: 797

Ion Ratio Lower Upper

59 100

57 2.6 3.7 5.5#



#16

Acetone

Concen: 61.941 ug/l

RT: 2.373 min Scan# 211

Delta R.T. -0.000 min

Lab File: VX034070.D

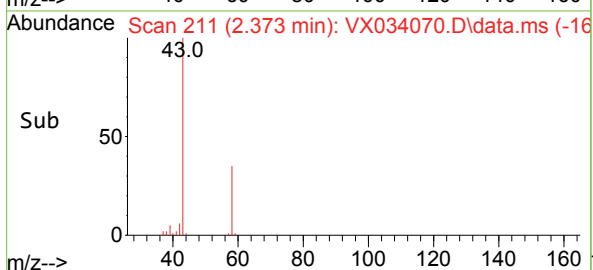
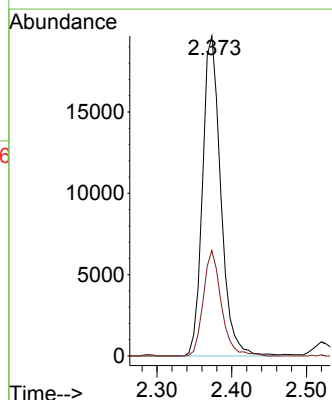
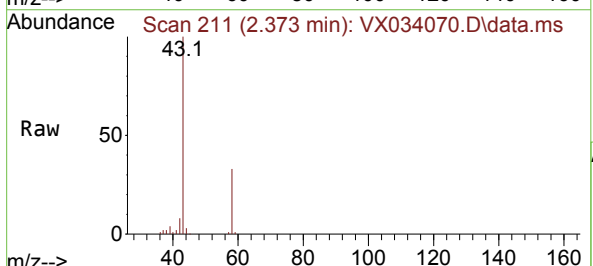
Acq: 07 Feb 2023 18:48

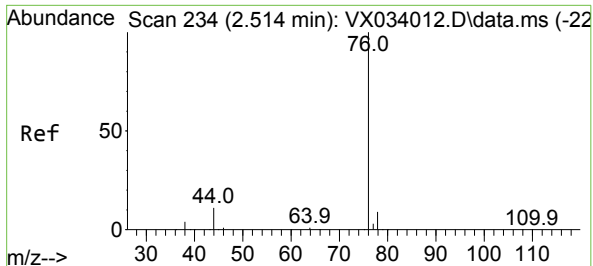
Tgt Ion: 43 Resp: 33390

Ion Ratio Lower Upper

43 100

58 32.9 22.6 33.8





#17

Carbon Disulfide

Concen: 1.554 ug/l

RT: 2.514 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX034070.D

Acq: 07 Feb 2023 18:48

Instrument :

MSVOA_X

ClientSampleId :

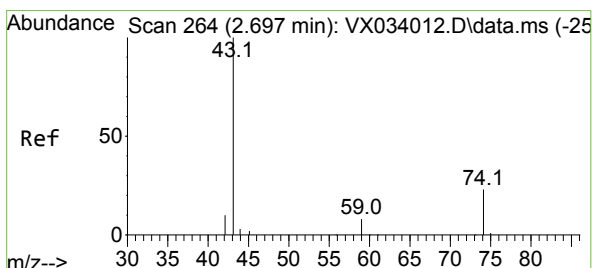
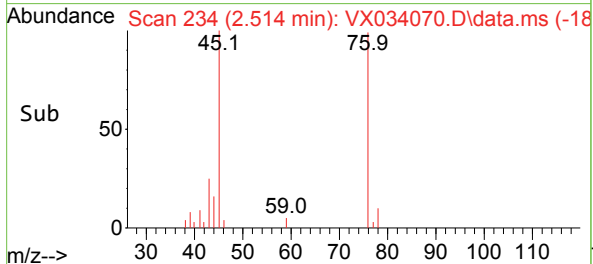
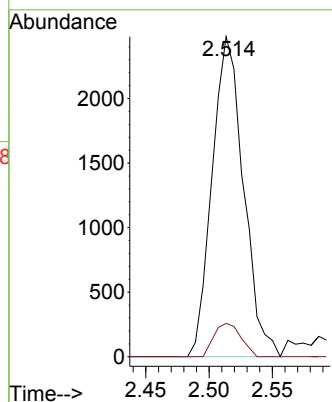
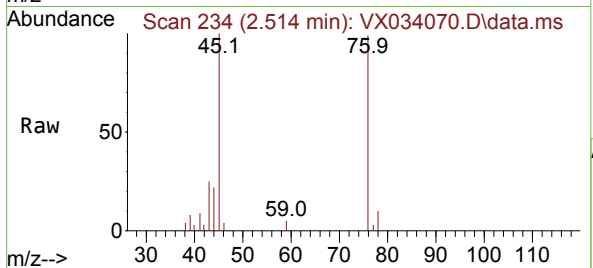
2423

Tgt Ion: 76 Resp: 4275

Ion Ratio Lower Upper

76 100

78 10.4 7.0 10.6



#18

Methyl Acetate

Concen: 0.233 ug/l

RT: 2.696 min Scan# 264

Delta R.T. -0.000 min

Lab File: VX034070.D

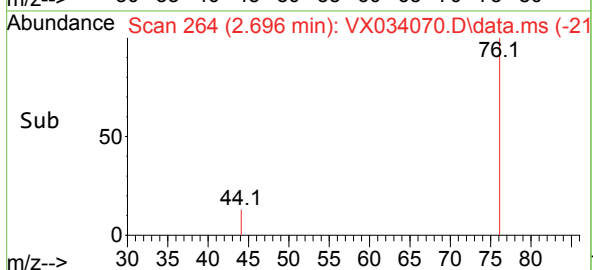
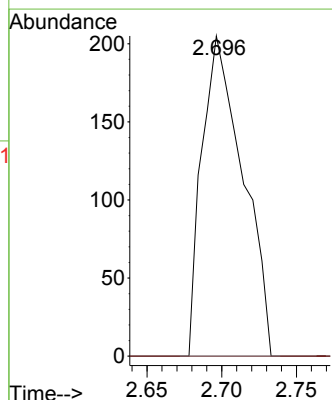
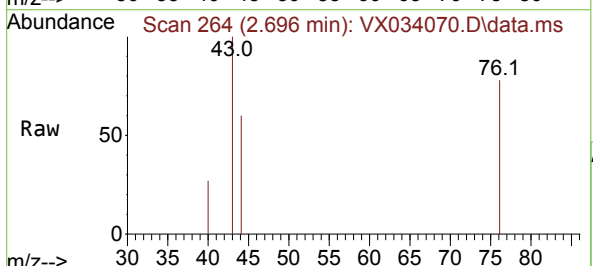
Acq: 07 Feb 2023 18:48

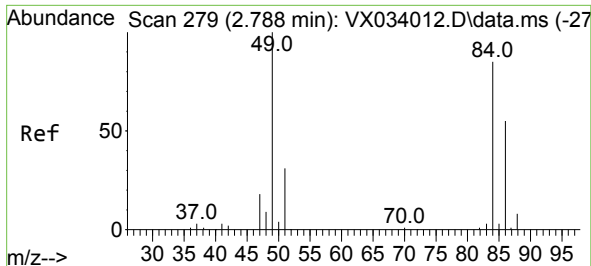
Tgt Ion: 43 Resp: 390

Ion Ratio Lower Upper

43 100

74 0.0 18.2 27.4#



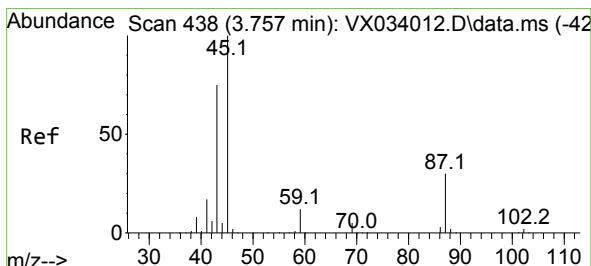
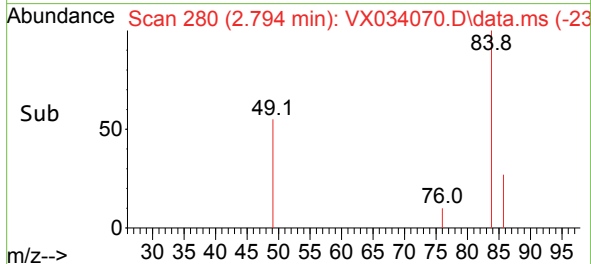
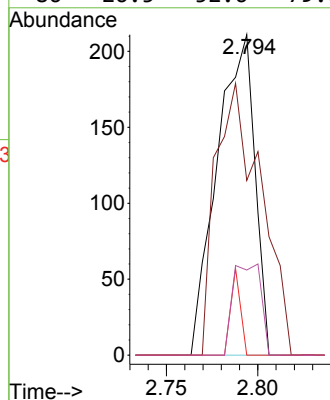
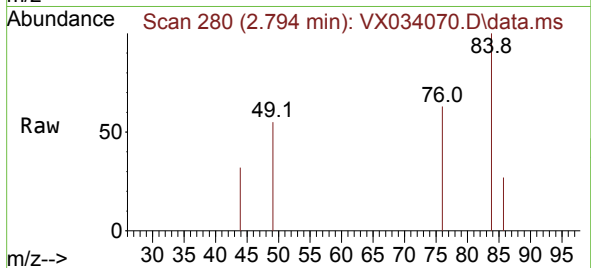


#20
Methylene Chloride
Concen: 0.245 ug/l
RT: 2.794 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX034070.D
Acq: 07 Feb 2023 18:48

Instrument :
MSVOA_X
ClientSampleId :
2423

Tgt Ion: 84 Resp: 302

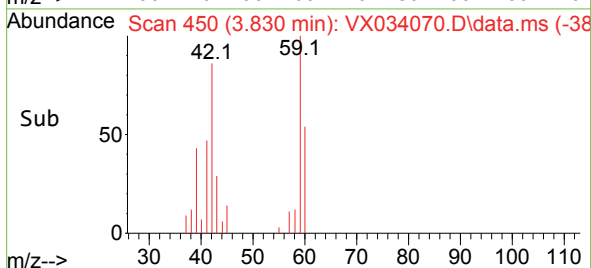
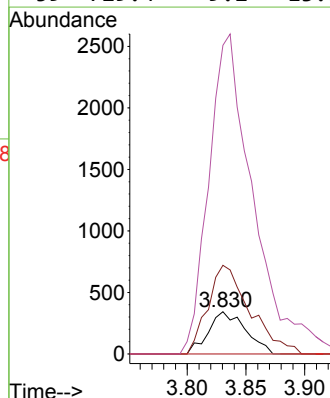
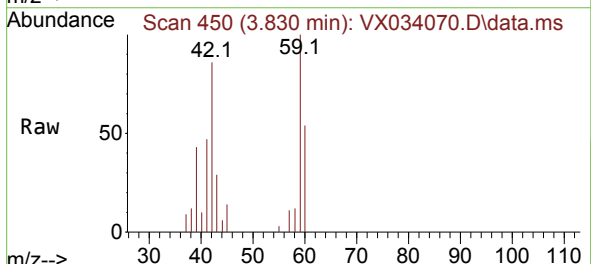
Ion	Ratio	Lower	Upper
84	100		
49	54.5	101.1	151.7#
51	0.0	31.0	46.6#
86	26.5	52.6	79.0#

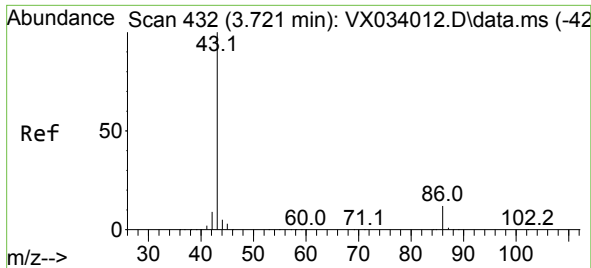


#22
Diisopropyl ether
Concen: 0.217 ug/l
RT: 3.830 min Scan# 450
Delta R.T. 0.073 min
Lab File: VX034070.D
Acq: 07 Feb 2023 18:48

Tgt Ion: 45 Resp: 756

Ion	Ratio	Lower	Upper
45	100		
43	209.3	64.6	97.0#
87	0.0	21.9	32.9#
59	729.4	9.2	13.8#

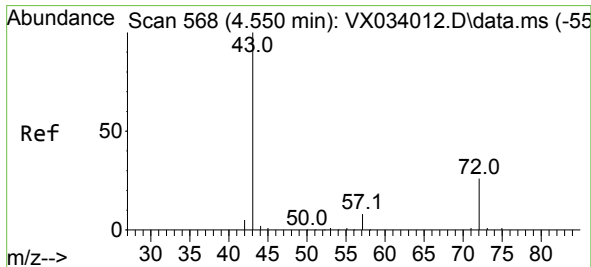
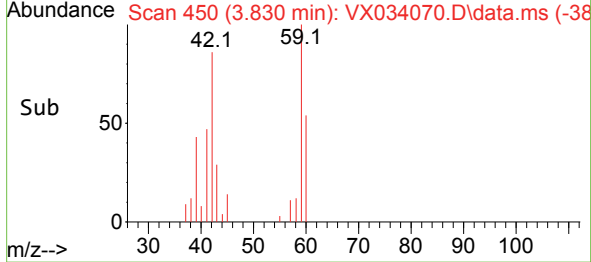
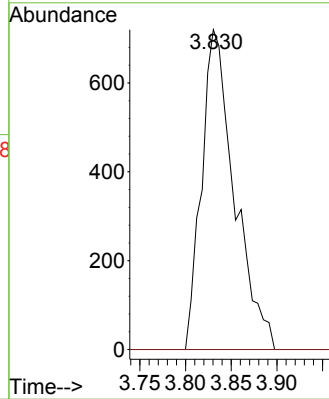
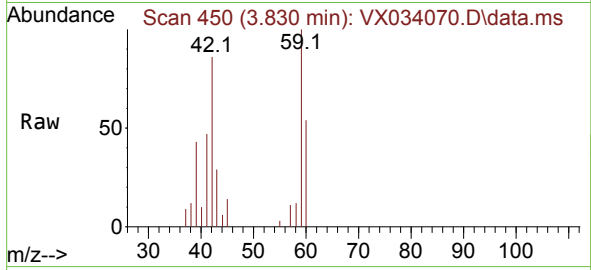




#23
 Vinyl Acetate
 Concen: 0.677 ug/l
 RT: 3.830 min Scan# 41
 Delta R.T. 0.109 min
 Lab File: VX034070.D
 Acq: 07 Feb 2023 18:48

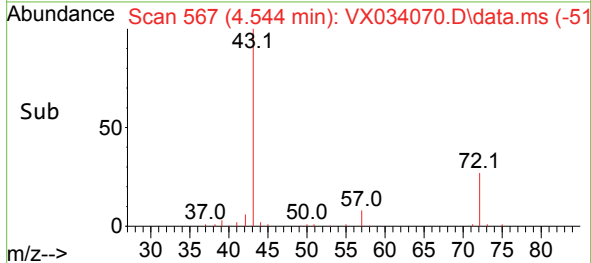
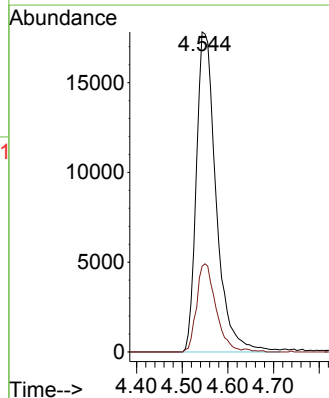
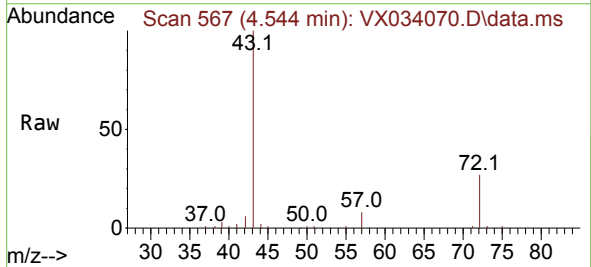
Instrument :
 MSVOA_X
 ClientSampleId :
 2423

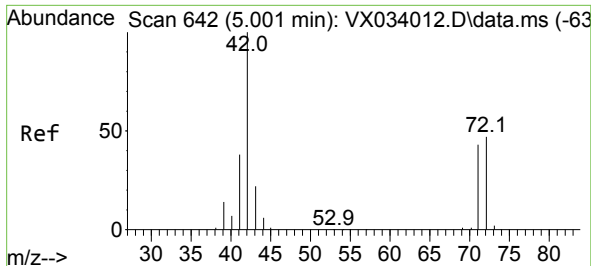
Tgt Ion: 43 Resp: 1798
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.4 12.6#



#25
 2-Butanone
 Concen: 68.195 ug/l
 RT: 4.544 min Scan# 567
 Delta R.T. -0.006 min
 Lab File: VX034070.D
 Acq: 07 Feb 2023 18:48

Tgt Ion: 43 Resp: 53529
 Ion Ratio Lower Upper
 43 100
 72 26.8 19.4 29.2

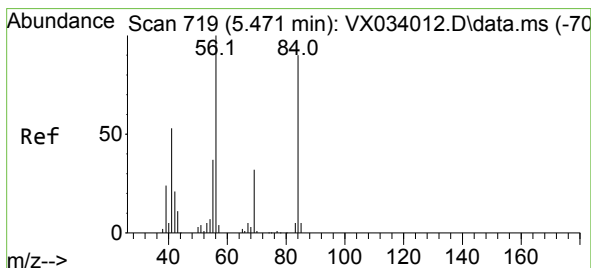
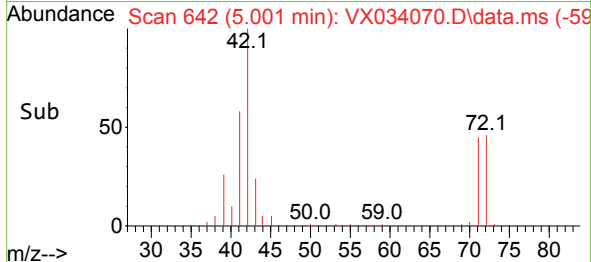
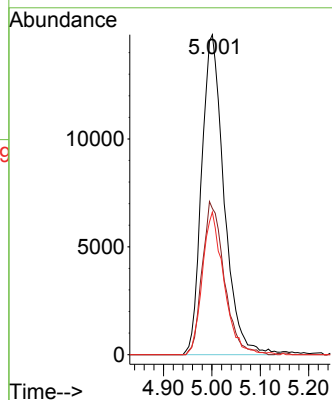
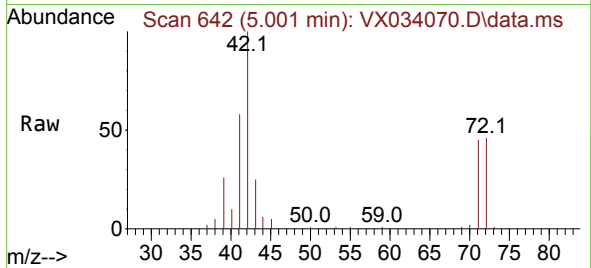




#29
Tetrahydrofuran
Concen: 95.741 ug/l
RT: 5.001 min Scan# 642
Delta R.T. -0.000 min
Lab File: VX034070.D
Acq: 07 Feb 2023 18:48

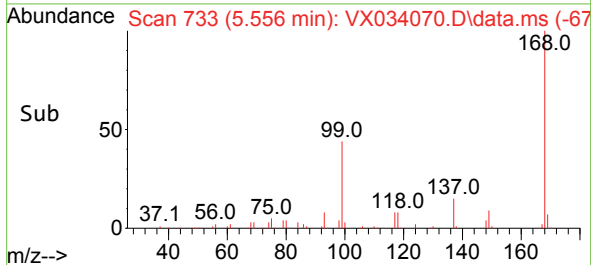
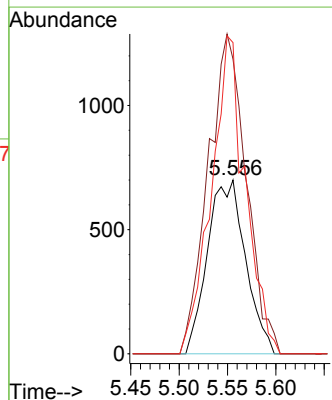
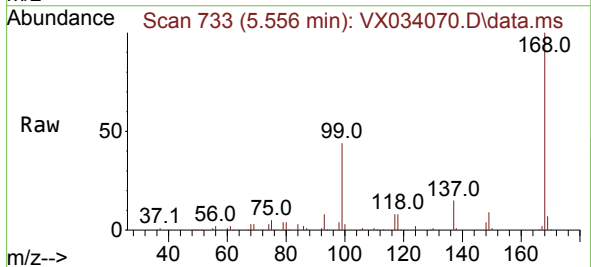
Instrument :
MSVOA_X
ClientSampleId :
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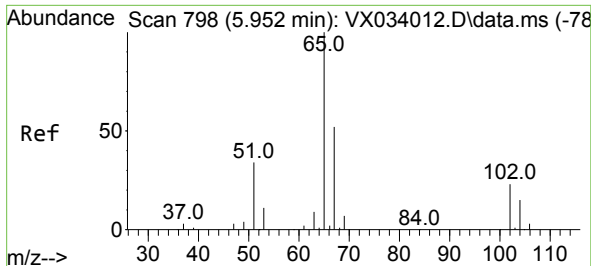
Tgt Ion:	42	Resp:	47797
Ion	Ratio	Lower	Upper
42	100		
72	47.0	34.8	52.2
71	42.8	32.2	48.2



#31
Cyclohexane
Concen: 1.028 ug/l
RT: 5.556 min Scan# 733
Delta R.T. 0.085 min
Lab File: VX034070.D
Acq: 07 Feb 2023 18:48

Tgt Ion:	56	Resp:	1910
Ion	Ratio	Lower	Upper
56	100		
69	169.6	24.6	37.0#
84	179.0	71.0	106.6#





#33

1,2-Dichloroethane-d4

Concen: 50.084 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX034070.D

Acq: 07 Feb 2023 18:48

Instrument :

MSVOA_X

ClientSampleId :

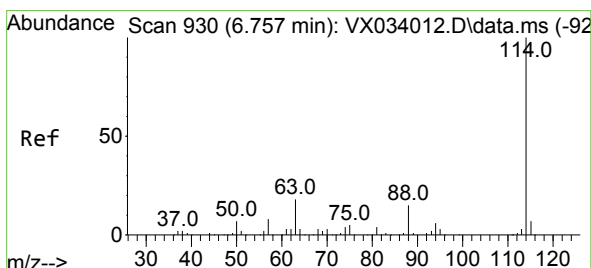
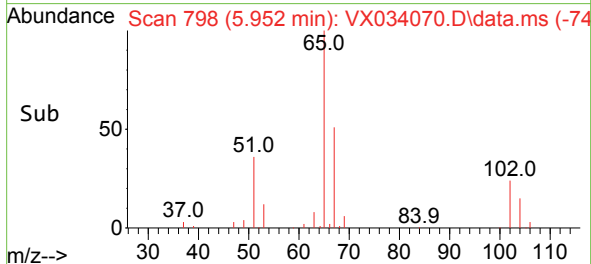
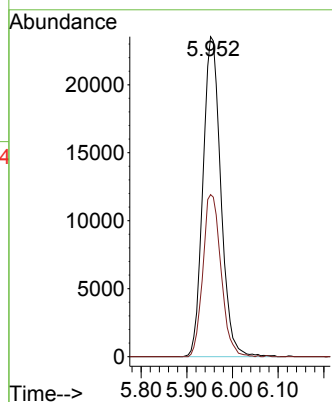
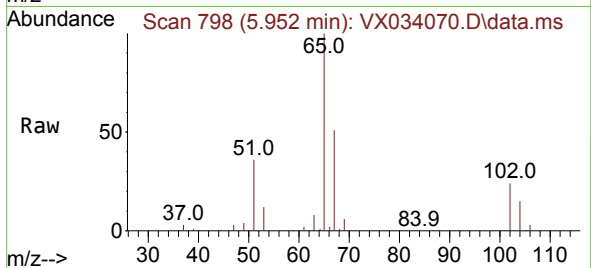
2423

Tgt Ion: 65 Resp: 63923

Ion Ratio Lower Upper

65 100

67 51.3 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.006 min

Lab File: VX034070.D

Acq: 07 Feb 2023 18:48

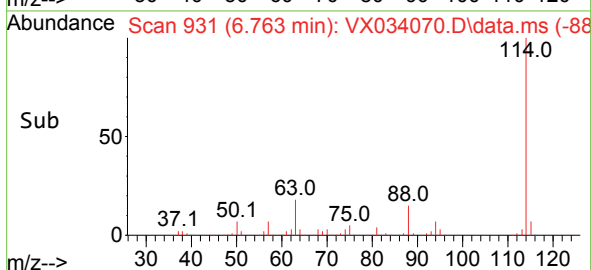
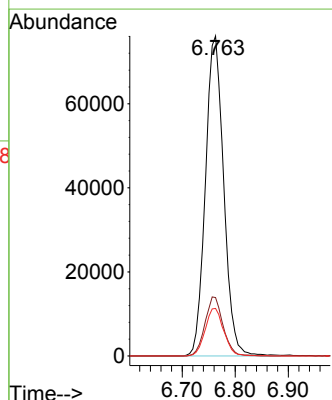
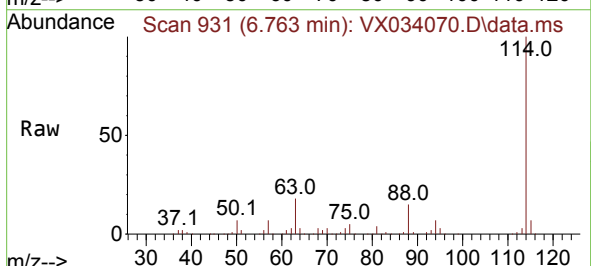
Tgt Ion: 114 Resp: 182275

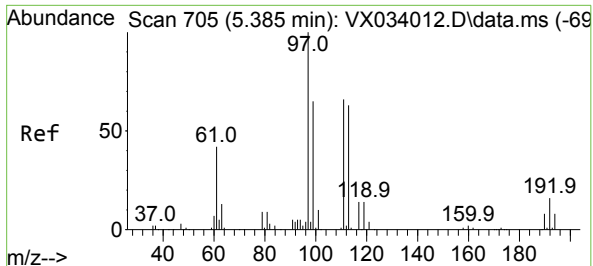
Ion Ratio Lower Upper

114 100

63 18.3 0.0 37.4

88 14.8 0.0 30.6





#35

Dibromofluoromethane

Concen: 49.846 ug/l

RT: 5.385 min Scan# 705

Delta R.T. -0.000 min

Lab File: VX034070.D

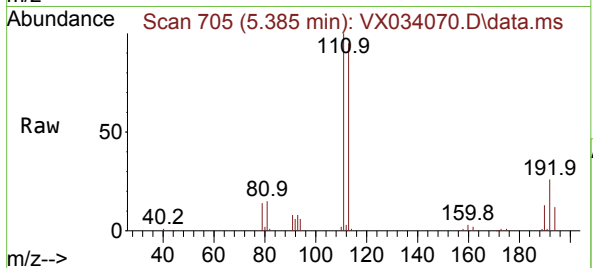
Acq: 07 Feb 2023 18:48

Instrument :

MSVOA_X

ClientSampleId :

2423



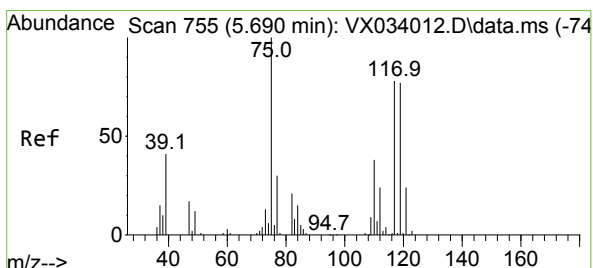
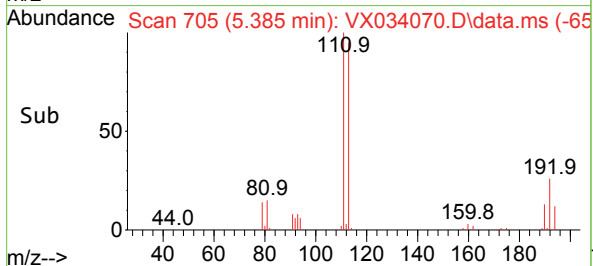
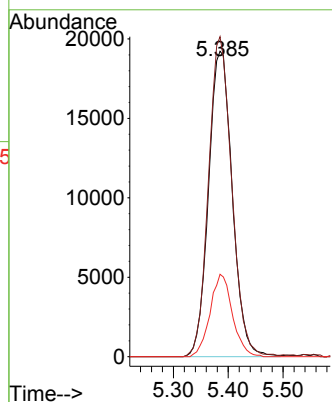
Tgt Ion:113 Resp: 57824

Ion Ratio Lower Upper

113 100

111 102.4 83.0 124.6

192 25.4 19.0 28.4



#36

1,1-Dichloropropene

Concen: 4.888 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.141 min

Lab File: VX034070.D

Acq: 07 Feb 2023 18:48

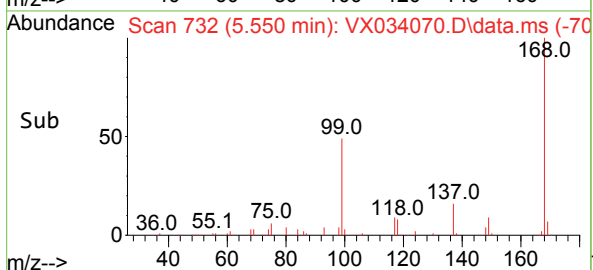
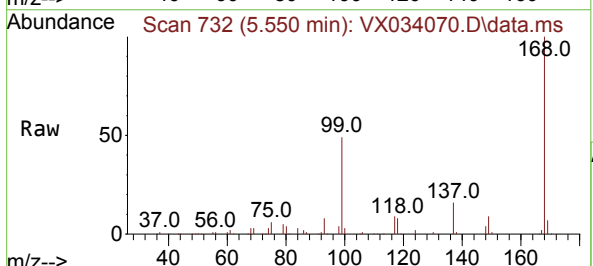
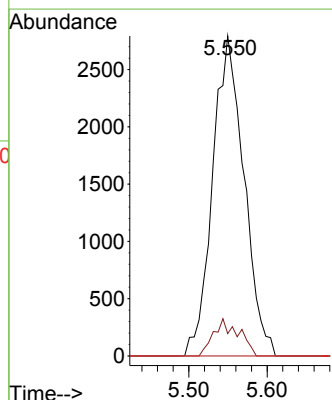
Tgt Ion: 75 Resp: 7774

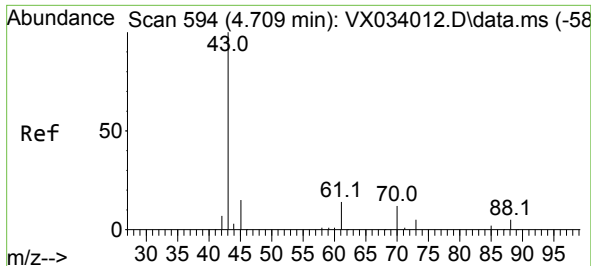
Ion Ratio Lower Upper

75 100

110 9.3 18.8 56.4#

77 0.0 25.1 37.7#





#37

Ethyl Acetate

Concen: 36.128 ug/l

RT: 4.544 min Scan# 5

Delta R.T. -0.165 min

Lab File: VX034070.D

Acq: 07 Feb 2023 18:48

Instrument :

MSVOA_X

ClientSampleId :

2423

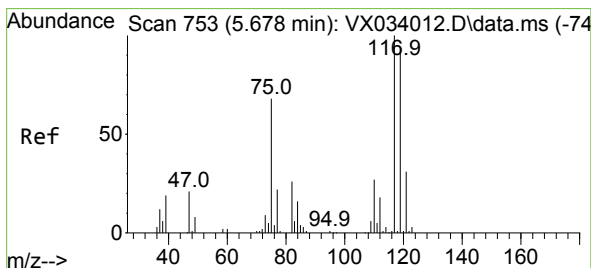
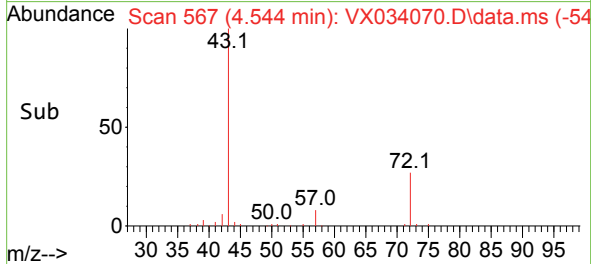
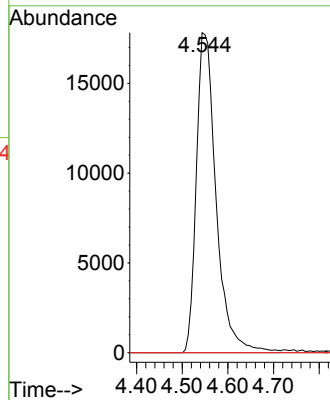
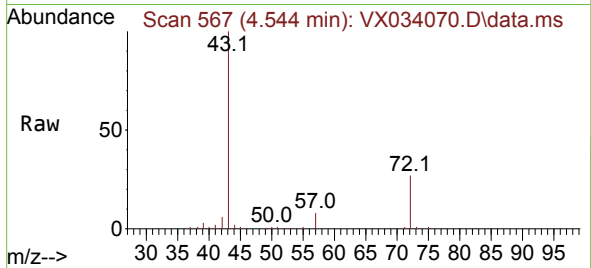
Tgt Ion: 43 Resp: 53529

Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

70 0.0 8.5 12.7#



#38

Carbon Tetrachloride

Concen: 6.871 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.128 min

Lab File: VX034070.D

Acq: 07 Feb 2023 18:48

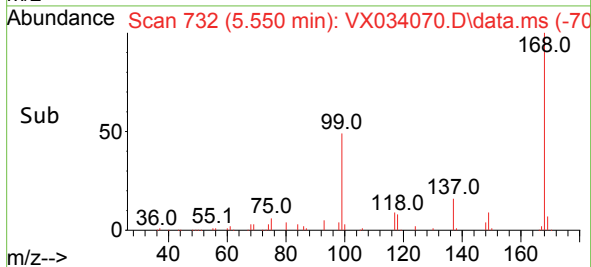
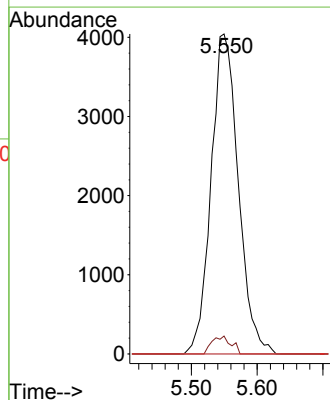
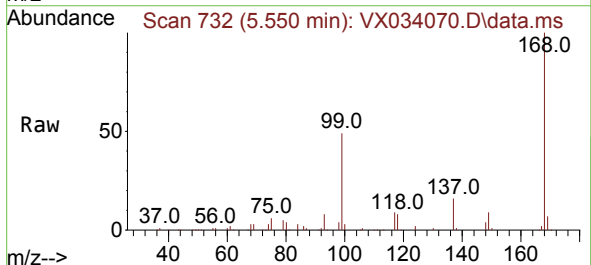
Tgt Ion: 117 Resp: 11656

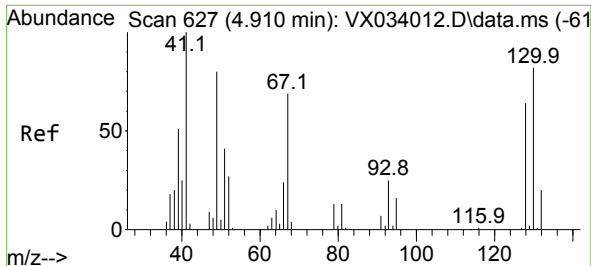
Ion Ratio Lower Upper

117 100

119 5.6 78.0 117.0#

121 0.0 24.4 36.6#

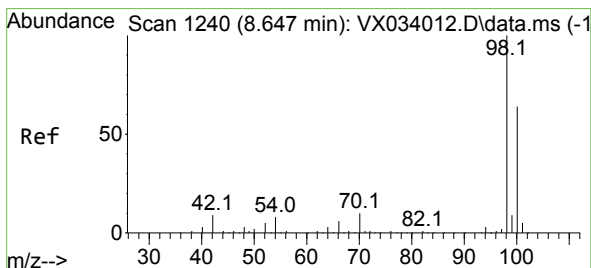
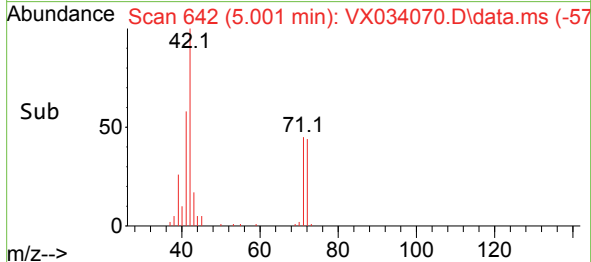
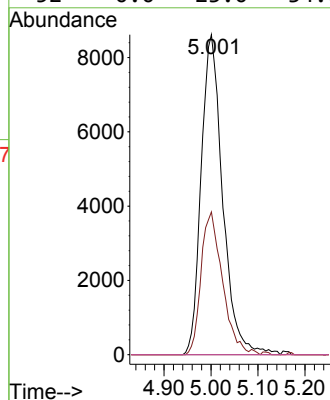
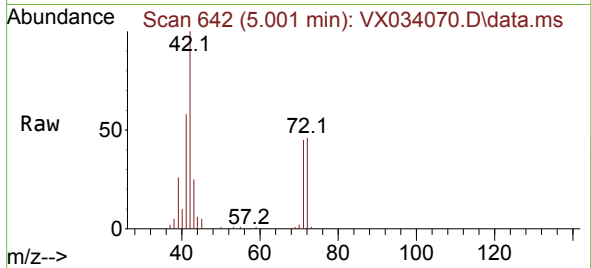




#41
Methacrylonitrile
Concen: 32.861 ug/l
RT: 5.001 min Scan# 641
Delta R.T. 0.091 min
Lab File: VX034070.D
Acq: 07 Feb 2023 18:48

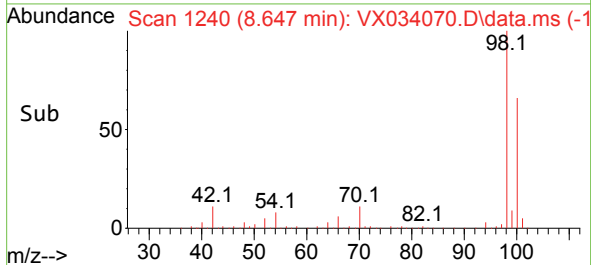
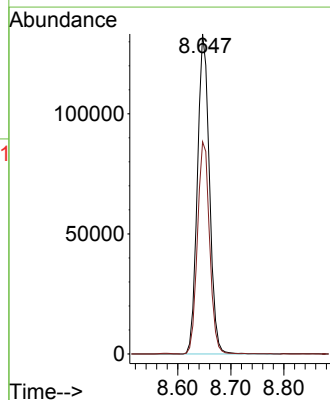
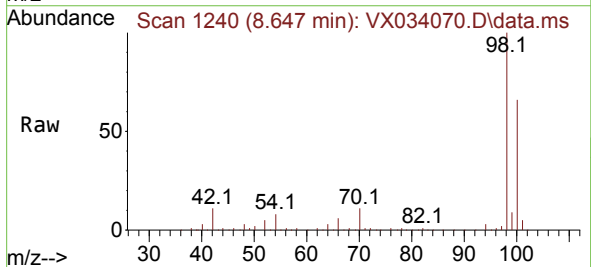
Instrument :
MSVOA_X
ClientSampleId :
2423

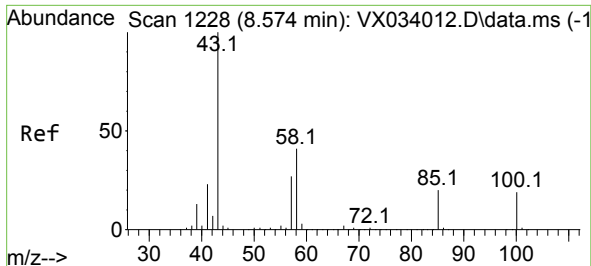
Tgt Ion: 41 Resp: 27400
Ion Ratio Lower Upper
41 100
39 44.1 43.8 65.6
67 0.0 54.8 82.2#
52 0.0 23.0 34.6#



#50
Toluene-d8
Concen: 50.204 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX034070.D
Acq: 07 Feb 2023 18:48

Tgt Ion: 98 Resp: 209831
Ion Ratio Lower Upper
98 100
100 67.0 53.6 80.4

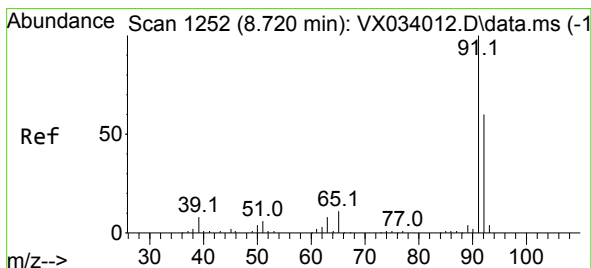
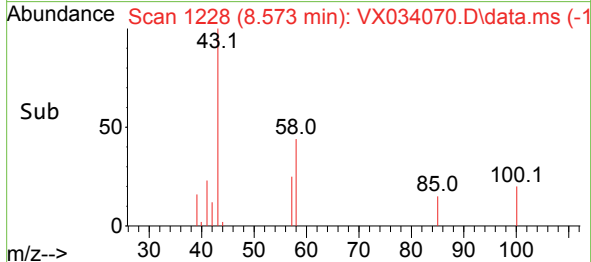
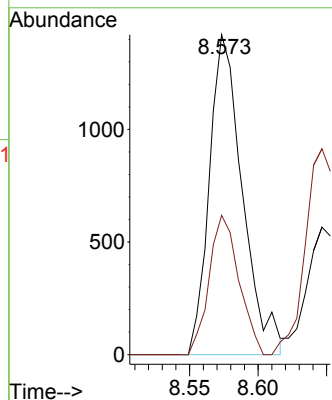
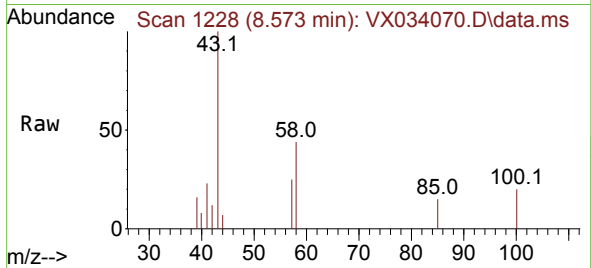




#51
4-Methyl-2-Pentanone
Concen: 1.646 ug/l
RT: 8.573 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX034070.D
Acq: 07 Feb 2023 18:48

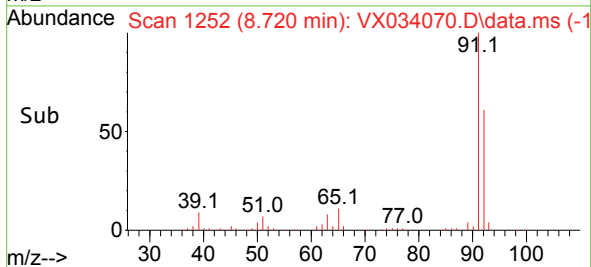
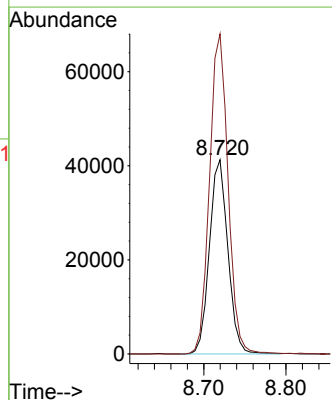
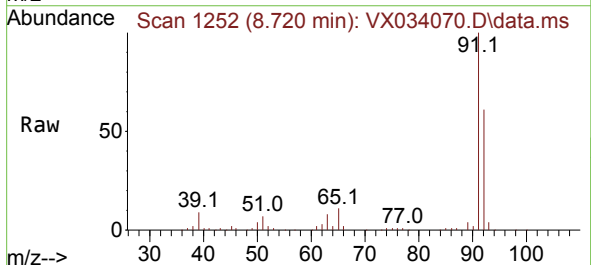
Instrument :
MSVOA_X
ClientSampleId :
2423

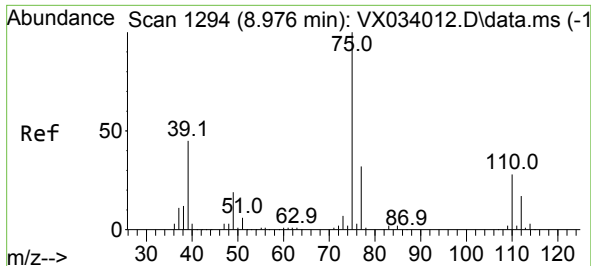
Tgt Ion: 43 Resp: 2386
Ion Ratio Lower Upper
43 100
58 39.2 31.2 46.8



#52
Toluene
Concen: 21.556 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX034070.D
Acq: 07 Feb 2023 18:48

Tgt Ion: 92 Resp: 64288
Ion Ratio Lower Upper
92 100
91 165.6 135.5 203.3

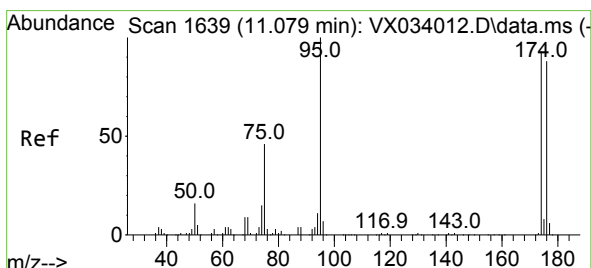
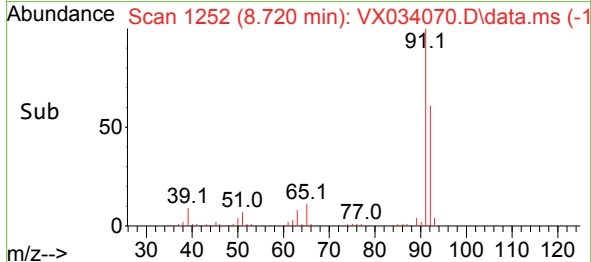
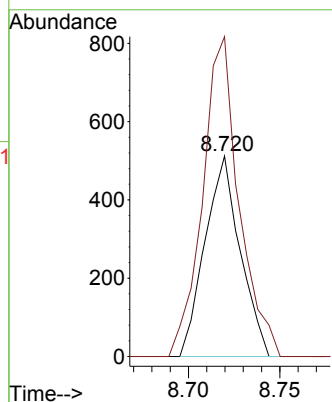
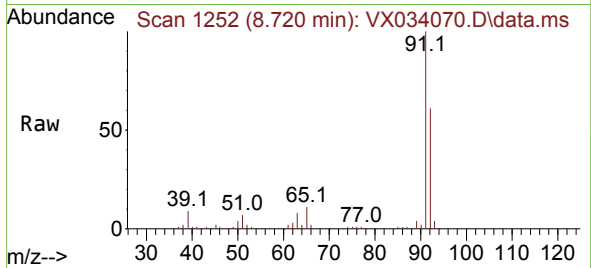




#53
 t-1,3-Dichloropropene
 Concen: 0.442 ug/l
 RT: 8.720 min Scan# 11
 Delta R.T. -0.256 min
 Lab File: VX034070.D
 Acq: 07 Feb 2023 18:48

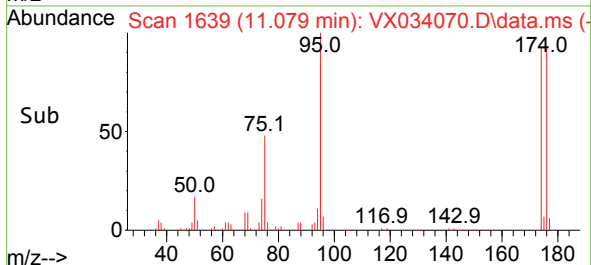
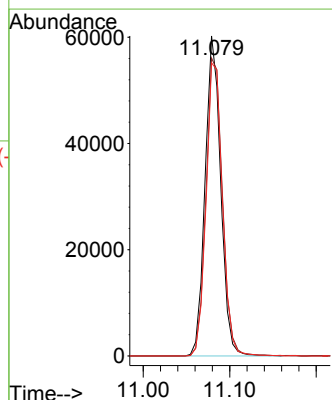
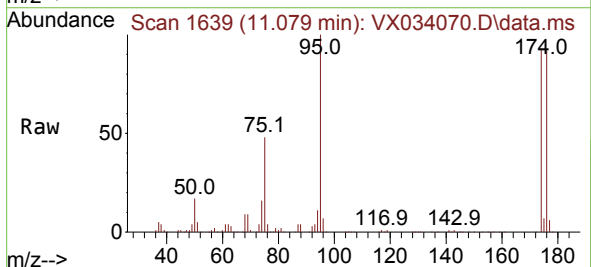
Instrument :
 MSVOA_X
 ClientSampleId :
 2423

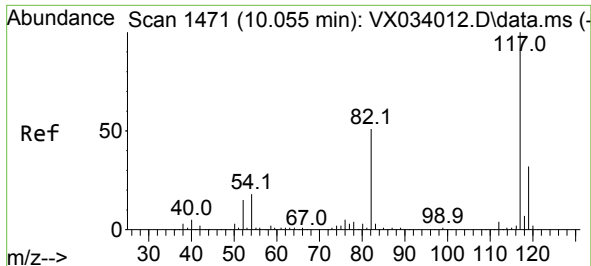
Tgt Ion: 75 Resp: 685
 Ion Ratio Lower Upper
 75 100
 77 159.6 25.5 38.3#



#62
 4-Bromofluorobenzene
 Concen: 50.385 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. -0.000 min
 Lab File: VX034070.D
 Acq: 07 Feb 2023 18:48

Tgt Ion: 95 Resp: 75213
 Ion Ratio Lower Upper
 95 100
 174 98.5 0.0 184.4
 176 95.9 0.0 178.8

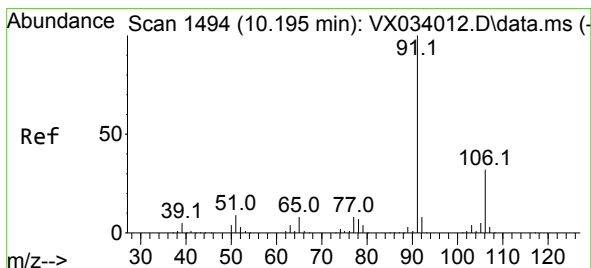
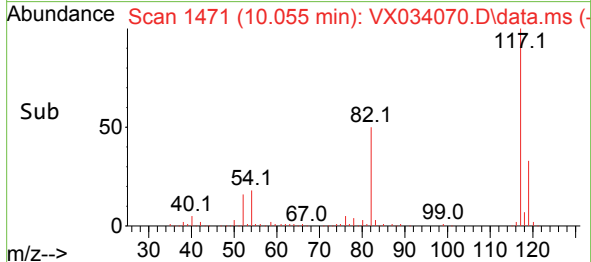
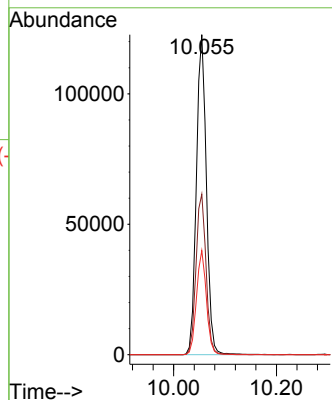
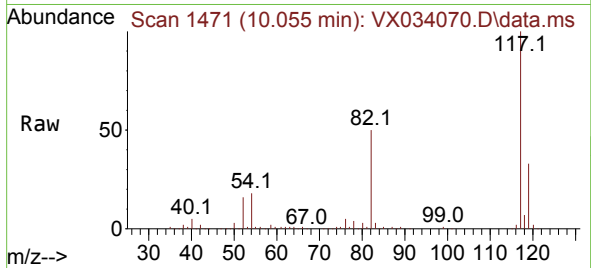




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX034070.D
Acq: 07 Feb 2023 18:48

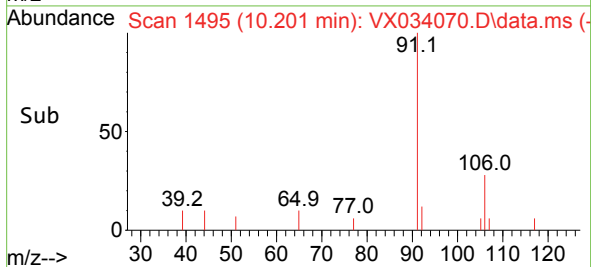
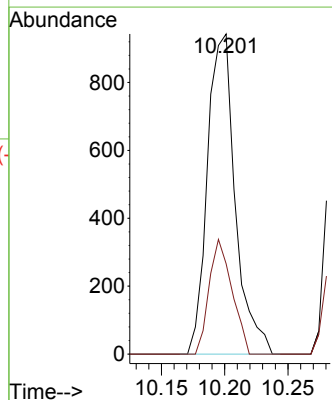
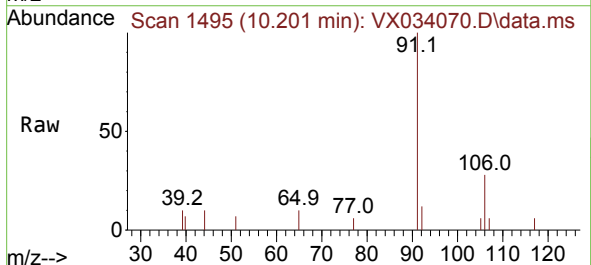
Instrument :
MSVOA_X
ClientSampleId :
2423

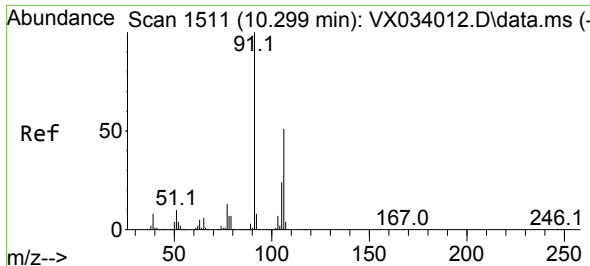
Tgt Ion:117 Resp: 165854
Ion Ratio Lower Upper
117 100
82 50.2 40.6 60.8
119 32.6 25.6 38.4



#67
Ethyl Benzene
Concen: 0.249 ug/l
RT: 10.201 min Scan# 1495
Delta R.T. 0.006 min
Lab File: VX034070.D
Acq: 07 Feb 2023 18:48

Tgt Ion: 91 Resp: 1441
Ion Ratio Lower Upper
91 100
106 28.2 25.8 38.8

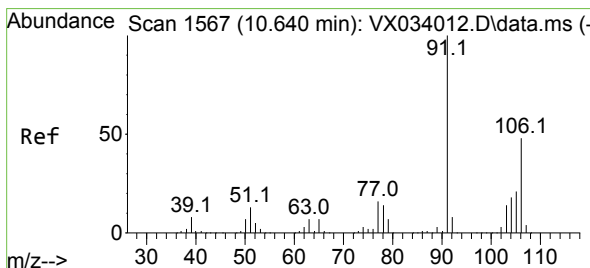
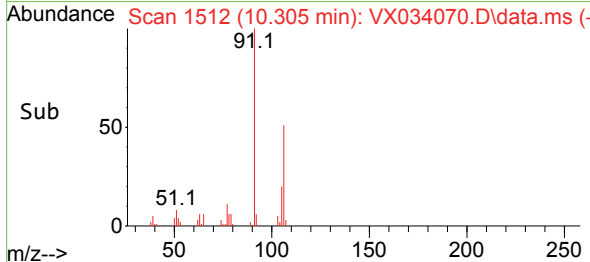
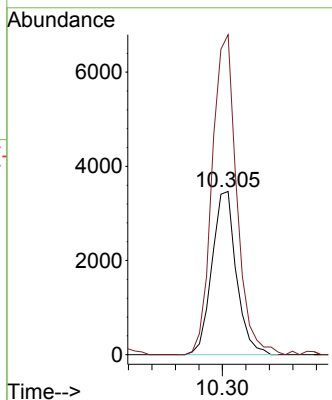
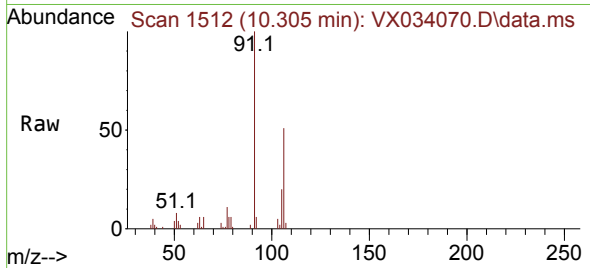




#68
m/p-Xylenes
Concen: 2.158 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.006 min
Lab File: VX034070.D
Acq: 07 Feb 2023 18:48

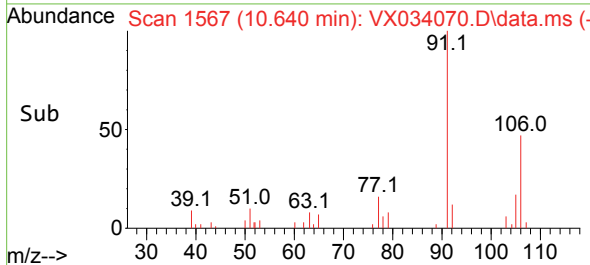
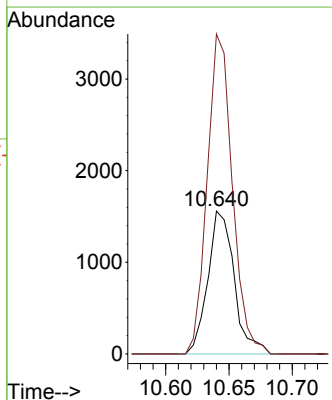
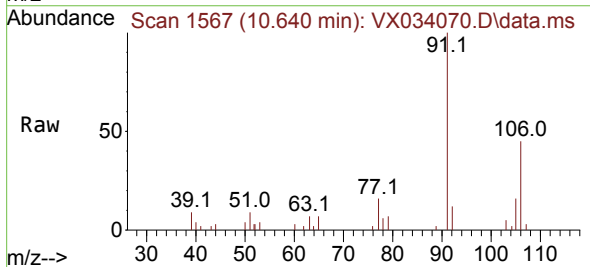
Instrument :
MSVOA_X
ClientSampleId :
2423

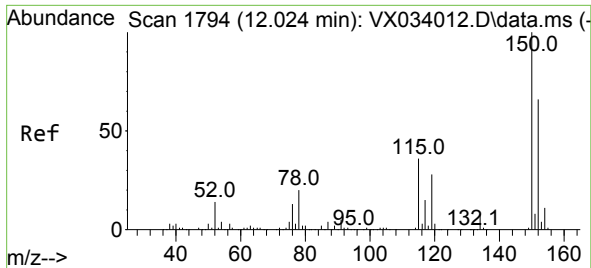
Tgt Ion:106 Resp: 5001
Ion Ratio Lower Upper
106 100
91 197.5 156.4 234.6



#69
o-Xylene
Concen: 1.016 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX034070.D
Acq: 07 Feb 2023 18:48

Tgt Ion:106 Resp: 2261
Ion Ratio Lower Upper
106 100
91 213.9 103.1 309.3

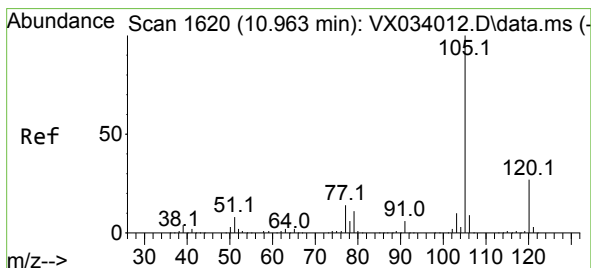
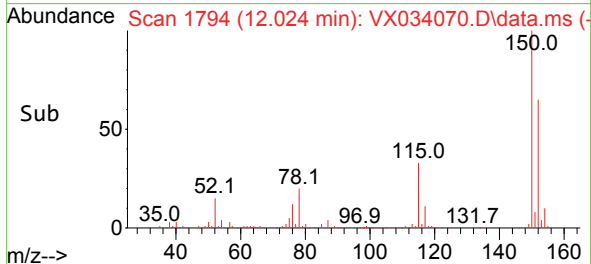
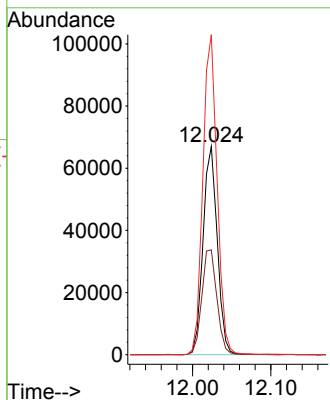
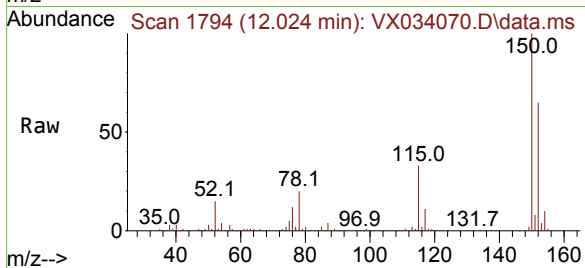




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.024 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VX034070.D
 Acq: 07 Feb 2023 18:48

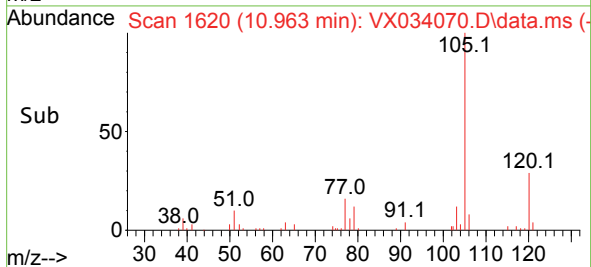
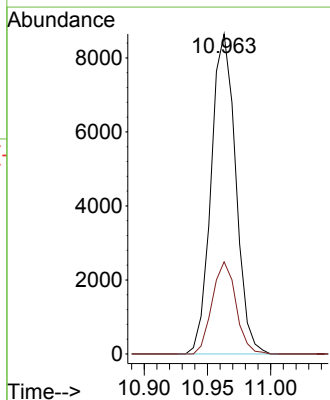
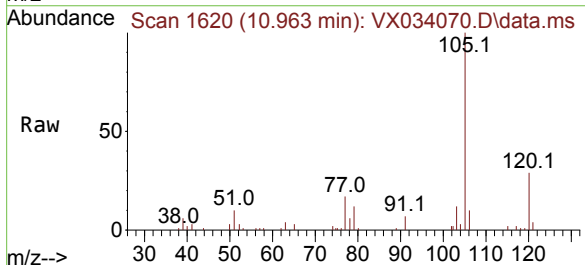
Instrument :
 MSVOA_X
 ClientSampleId :
 2423

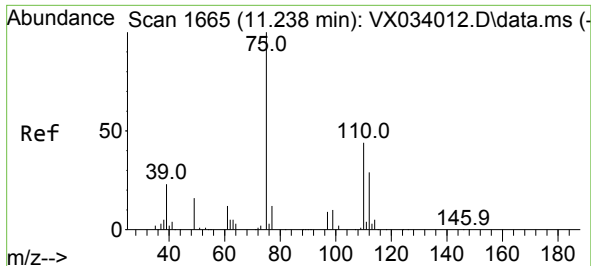
Tgt Ion:152 Resp: 84552
 Ion Ratio Lower Upper
 152 100
 115 53.4 38.7 116.1
 150 153.6 0.0 348.2



#73
 Isopropylbenzene
 Concen: 2.065 ug/l
 RT: 10.963 min Scan# 1620
 Delta R.T. -0.000 min
 Lab File: VX034070.D
 Acq: 07 Feb 2023 18:48

Tgt Ion:105 Resp: 11670
 Ion Ratio Lower Upper
 105 100
 120 27.8 13.6 40.8

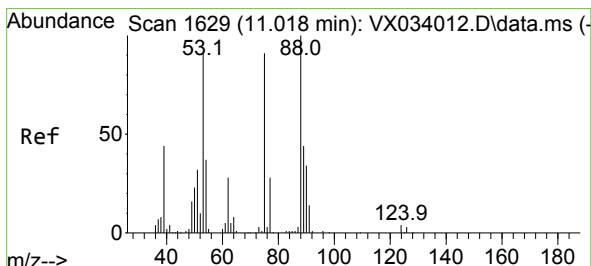
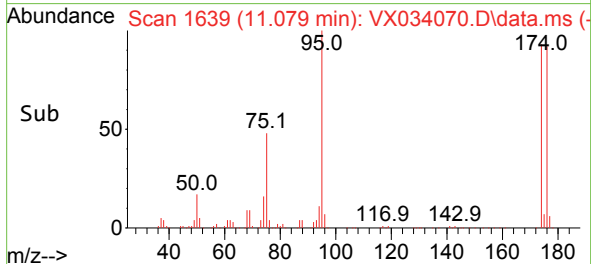
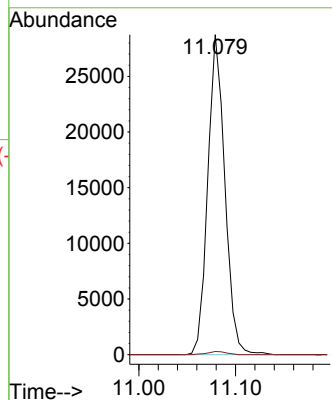
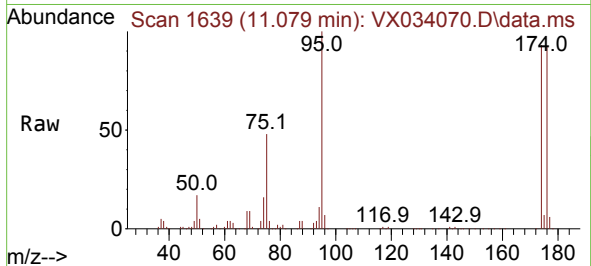




#76
1,2,3-Trichloropropane
Concen: 24.294 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.159 min
Lab File: VX034070.D
Acq: 07 Feb 2023 18:48

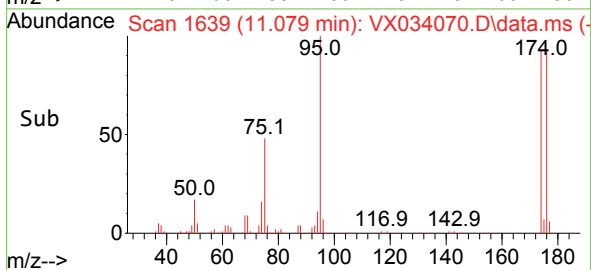
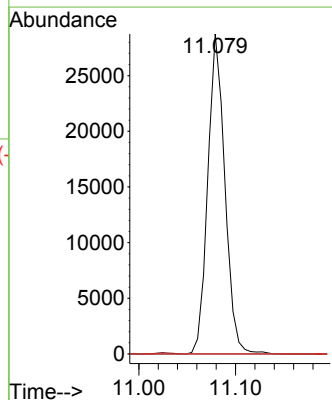
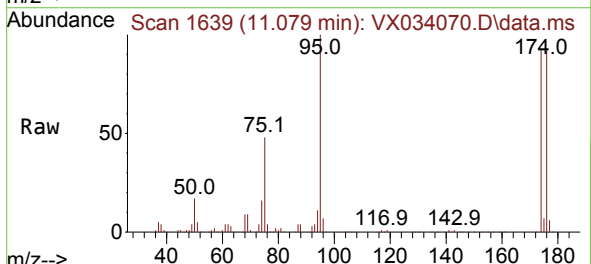
Instrument :
MSVOA_X
ClientSampleId :
2423

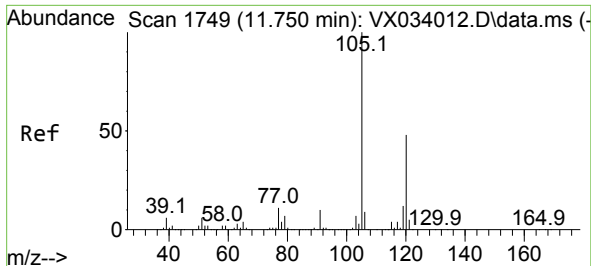
Tgt Ion: 75 Resp: 35271
Ion Ratio Lower Upper
75 100
77 1.1 21.8 65.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 74.818 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX034070.D
Acq: 07 Feb 2023 18:48

Tgt Ion: 75 Resp: 35271
Ion Ratio Lower Upper
75 100
53 0.0 83.0 124.6#
89 0.0 37.7 56.5#

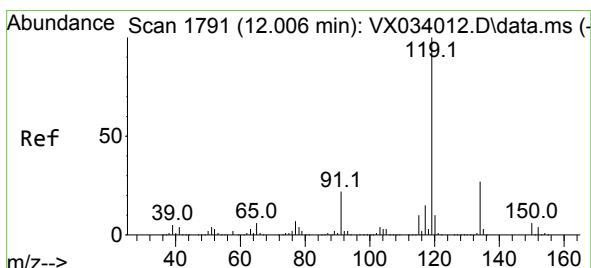
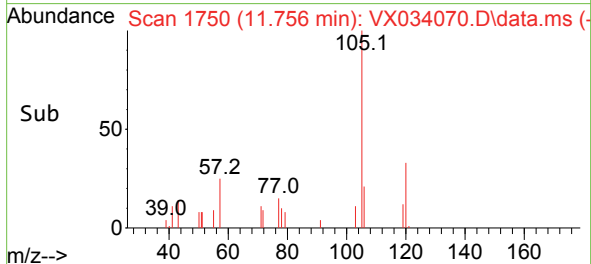
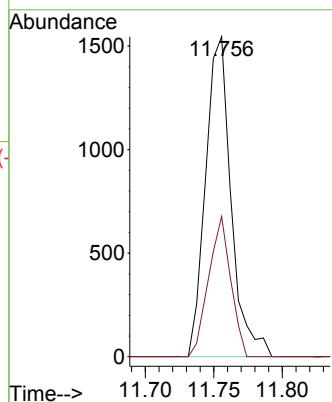
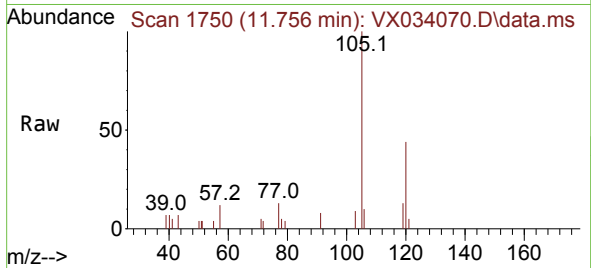




#84
1,2,4-Trimethylbenzene
Concen: 0.426 ug/l
RT: 11.756 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX034070.D
Acq: 07 Feb 2023 18:48

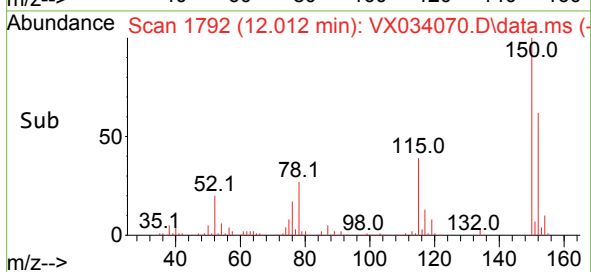
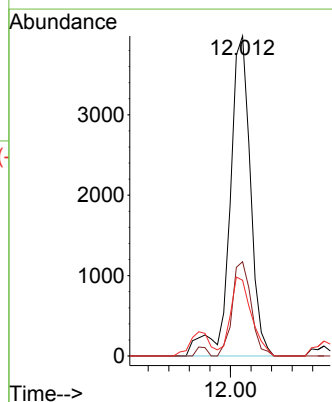
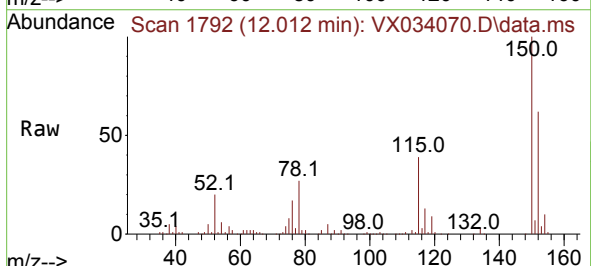
Instrument :
MSVOA_X
ClientSampleId :
2423

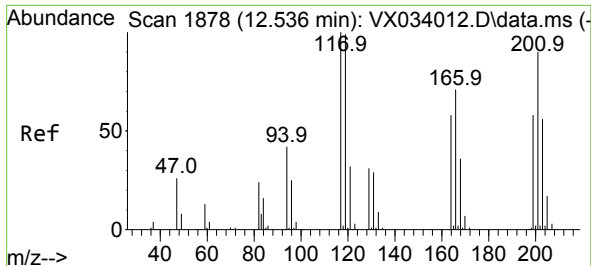
Tgt Ion:105 Resp: 2001
Ion Ratio Lower Upper
105 100
120 37.9 23.4 70.2



#86
p-Isopropyltoluene
Concen: 1.088 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VX034070.D
Acq: 07 Feb 2023 18:48

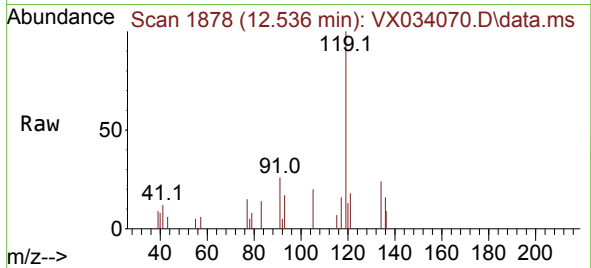
Tgt Ion:119 Resp: 5548
Ion Ratio Lower Upper
119 100
134 27.0 13.6 40.8
91 25.0 11.0 33.0



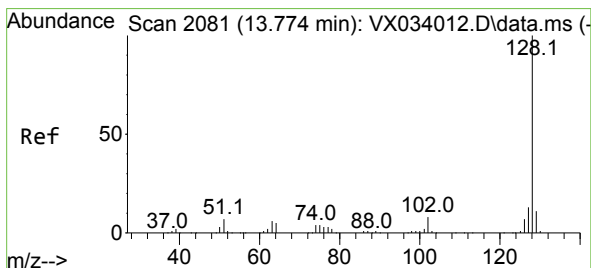
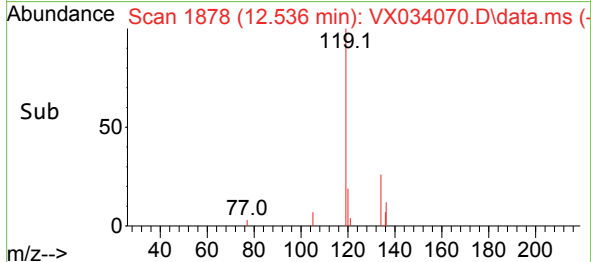
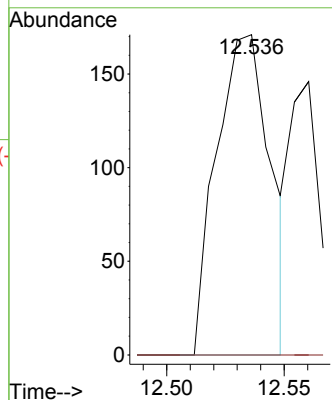


#90
Hexachloroethane
Concen: 0.341 ug/l
RT: 12.536 min Scan# 117
Delta R.T. -0.000 min
Lab File: VX034070.D
Acq: 07 Feb 2023 18:48

Instrument :
MSVOA_X
ClientSampleId :
2423



Tgt Ion:117 Resp: 274
Ion Ratio Lower Upper
117 100
201 0.0 45.1 135.3#



#95
Naphthalene
Concen: 2.556 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VX034070.D
Acq: 07 Feb 2023 18:48

Tgt Ion:128 Resp: 13915
Ion Ratio Lower Upper
128 100
127 12.6 10.3 15.5
129 11.4 8.7 13.1

