

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080423\
 Data File : VX036811.D
 Acq On : 04 Aug 2023 15:31
 Operator : JC/MD
 Sample : ZHC#09
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ZHC#09

Quant Time: Aug 05 00:12:33 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072123W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 21 12:14:12 2023
 Response via : Initial Calibration

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

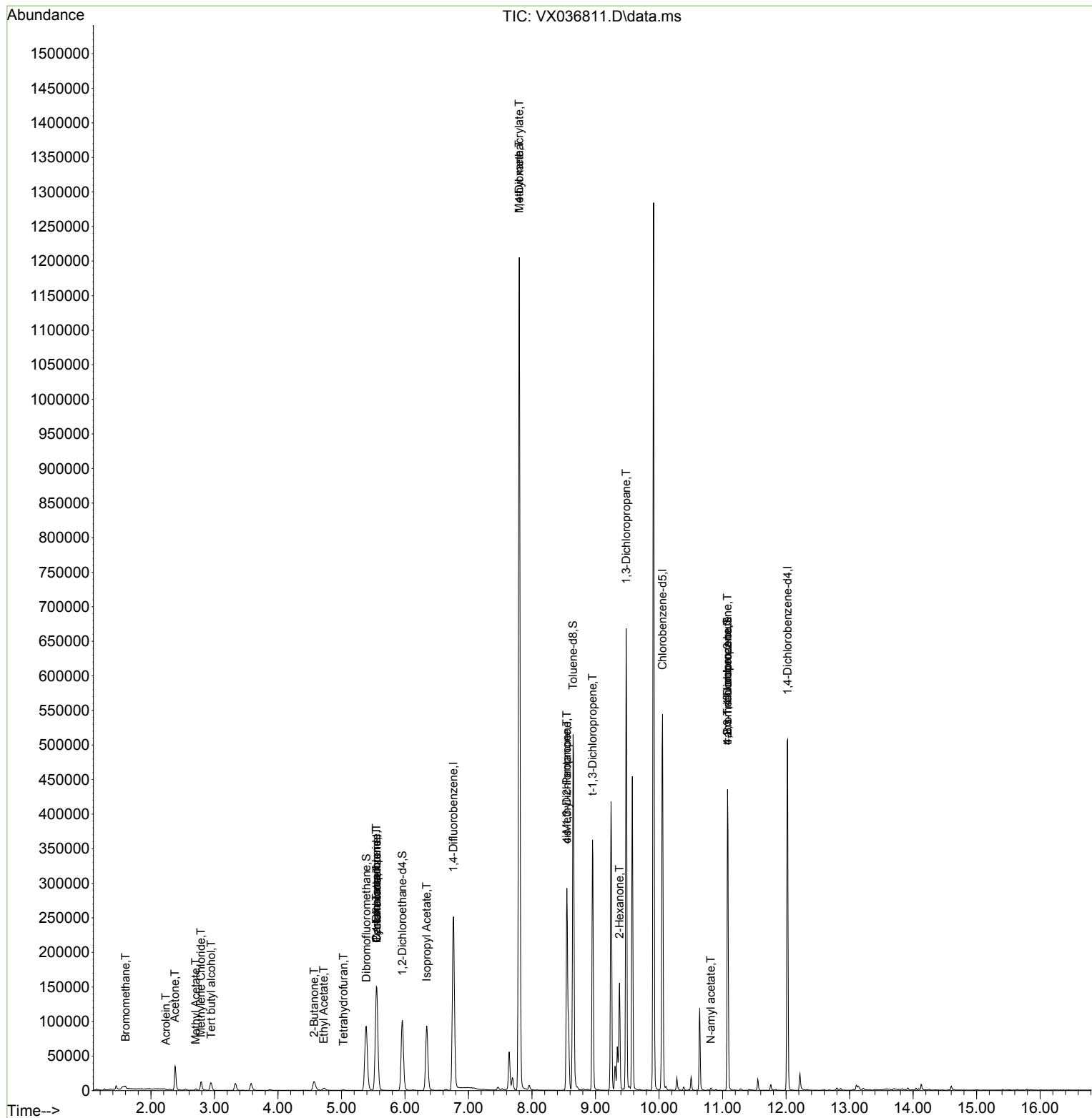
Internal Standards						
1) Pentafluorobenzene	5.556	168	139863	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	256217	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	237645	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	106658	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	99707	48.180	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	96.360%		
35) Dibromofluoromethane	5.391	113	83123	47.200	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.400%		
50) Toluene-d8	8.647	98	308315	49.368	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	98.740%		
62) 4-Bromofluorobenzene	11.079	95	116067	49.260	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	98.520%		
Target Compounds						Qvalue
5) Bromomethane	1.599	94	240	0.235	ug/l	84
11) Tert butyl alcohol	2.947	59	6935	14.155	ug/l #	84
13) Acrolein	2.233	56	265	0.948	ug/l #	14
16) Acetone	2.380	43	37902	44.136	ug/l	92
18) Methyl Acetate	2.703	43	2740	0.758	ug/l	100
20) Methylene Chloride	2.788	84	6425	3.364	ug/l	91
25) 2-Butanone	4.568	43	17462	12.533	ug/l	98
29) Tetrahydrofuran	5.032	42	691	0.769	ug/l #	73
31) Cyclohexane	5.556	56	3076	1.074	ug/l #	1
36) 1,1-Dichloropropene	5.550	75	11517	4.388	ug/l #	50
37) Ethyl Acetate	4.721	43	6433	2.165	ug/l	98
38) Carbon Tetrachloride	5.550	117	15109	5.414	ug/l #	16
43) Isopropyl Acetate	6.342	43	127778	24.985	ug/l	96
48) Methyl methacrylate	7.799	41	101593	42.715	ug/l #	49
49) 1,4-Dioxane	7.799	88	226	4.704	ug/l #	1
51) 4-Methyl-2-Pentanone	8.549	43	143739	50.789	ug/l #	37
53) t-1,3-Dichloropropene	8.952	75	838	0.253	ug/l #	43
54) cis-1,3-Dichloropropene	8.549	75	48435	13.864	ug/l #	55
57) 1,3-Dichloropropane	9.482	76	5954	1.777	ug/l #	42
59) 2-Hexanone	9.378	43	110867	52.783	ug/l #	26
74) N-amyl acetate	10.817	43	1006	0.244	ug/l #	56
76) 1,2,3-Trichloropropane	11.079	75	60936	24.290	ug/l #	38
81) trans-1,4-Dichloro-2-b...	11.079	75	60936	55.054	ug/l #	5

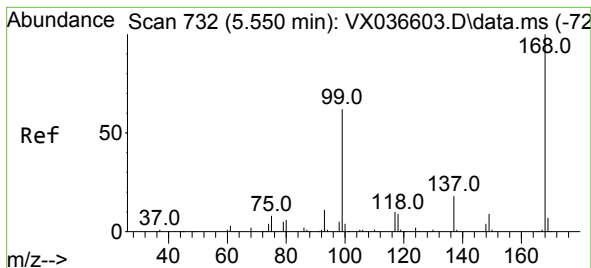
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072123W.M
Quant Title : SW846 8260
QLast Update : Fri Jul 21 12:14:12 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.556 min Scan# 71

Delta R.T. 0.006 min

Lab File: VX036811.D

Acq: 04 Aug 2023 15:31

Instrument :

MSVOA_X

ClientSampleId :

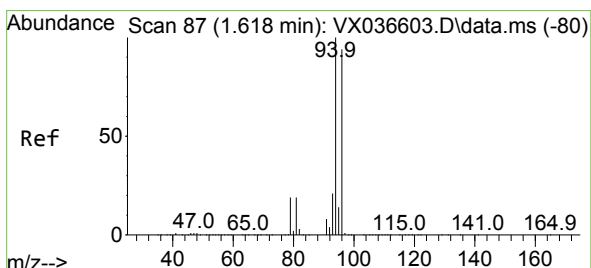
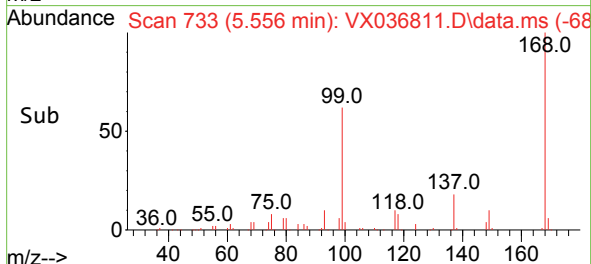
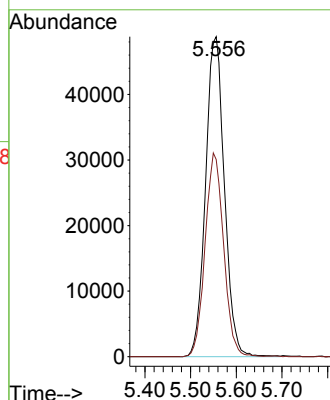
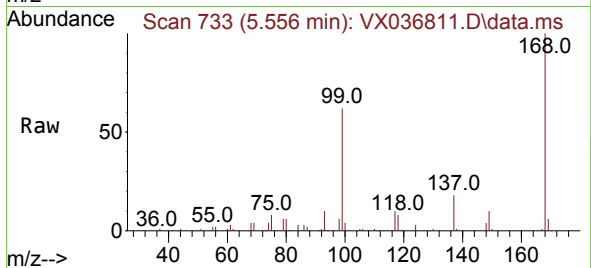
ZHC#09

Tgt Ion:168 Resp: 139863

Ion Ratio Lower Upper

168 100

99 61.6 56.6 85.0



#5

Bromomethane

Concen: 0.235 ug/l

RT: 1.599 min Scan# 84

Delta R.T. -0.018 min

Lab File: VX036811.D

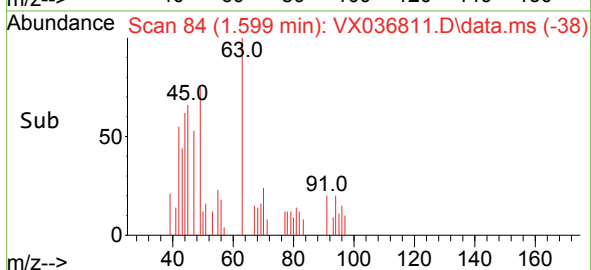
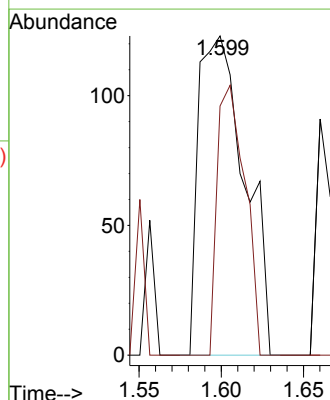
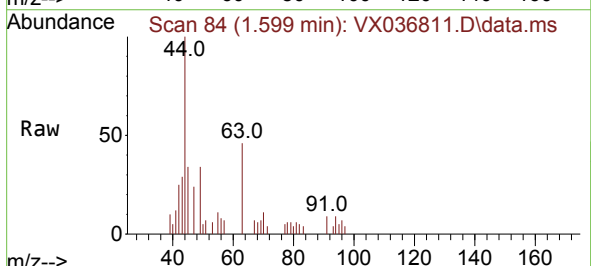
Acq: 04 Aug 2023 15:31

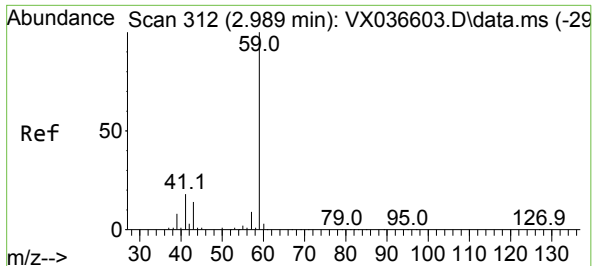
Tgt Ion: 94 Resp: 240

Ion Ratio Lower Upper

94 100

96 78.0 74.6 111.8

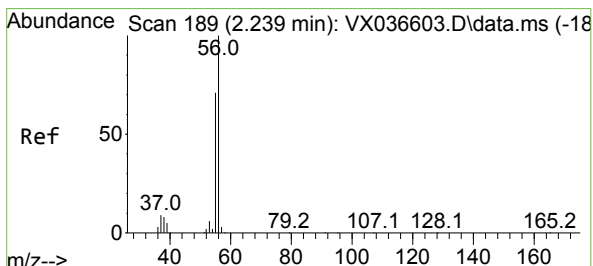
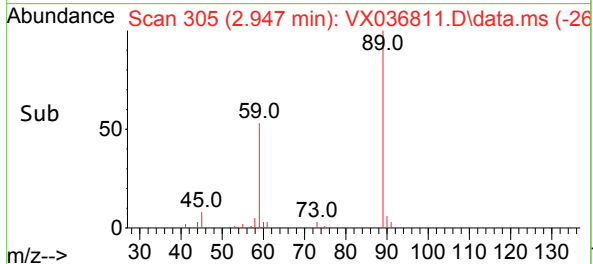
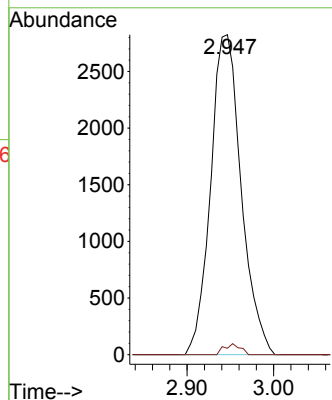
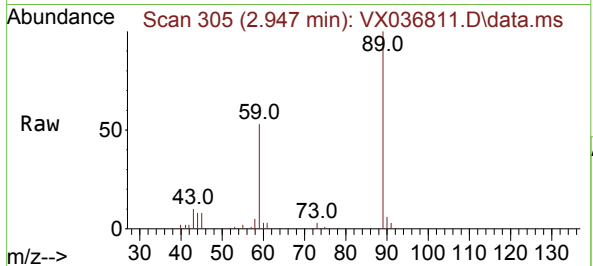




#11
Tert butyl alcohol
Concen: 14.155 ug/l
RT: 2.947 min Scan# 305
Delta R.T. -0.043 min
Lab File: VX036811.D
Acq: 04 Aug 2023 15:31

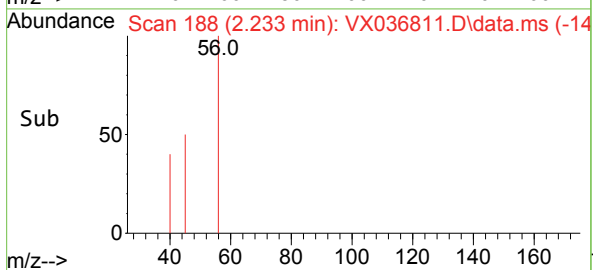
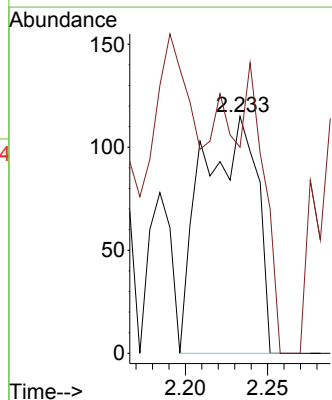
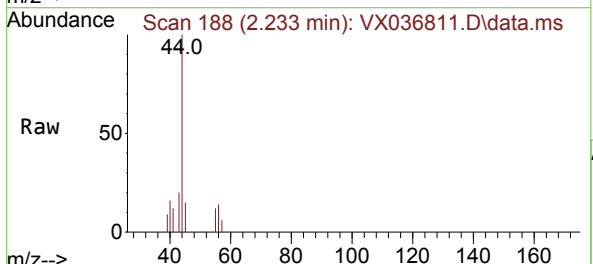
Instrument :
MSVOA_X
ClientSampleId :
ZHC#09

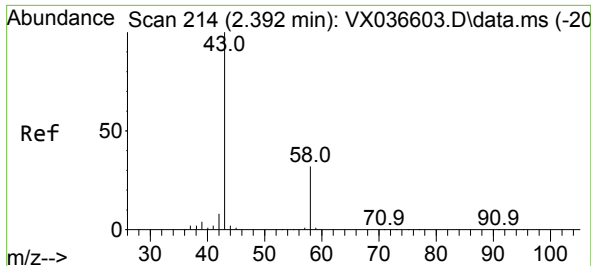
Tgt Ion: 59 Resp: 6935
Ion Ratio Lower Upper
59 100
57 1.8 6.0 9.0#



#13
Acrolein
Concen: 0.948 ug/l
RT: 2.233 min Scan# 188
Delta R.T. -0.006 min
Lab File: VX036811.D
Acq: 04 Aug 2023 15:31

Tgt Ion: 56 Resp: 265
Ion Ratio Lower Upper
56 100
55 0.0 57.1 85.7#

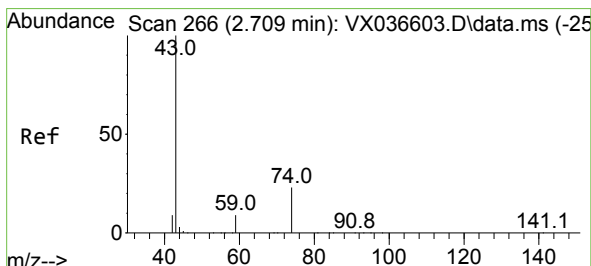
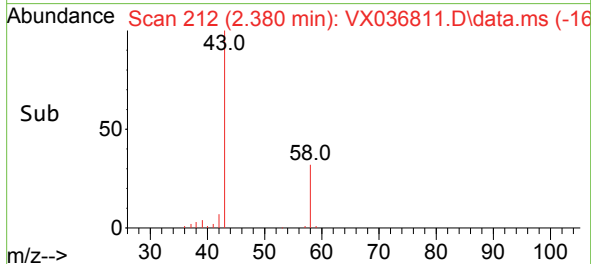
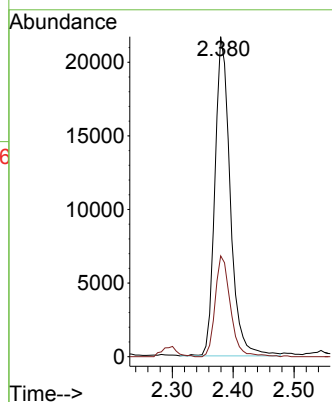
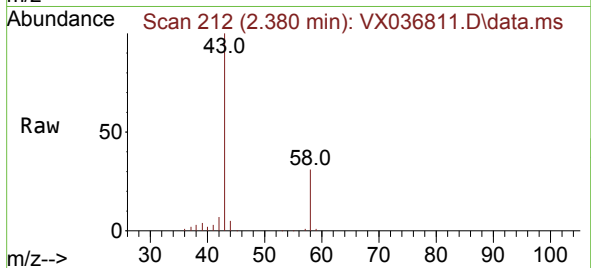




#16
Acetone
Concen: 44.136 ug/l
RT: 2.380 min Scan# 214
Delta R.T. -0.012 min
Lab File: VX036811.D
Acq: 04 Aug 2023 15:31

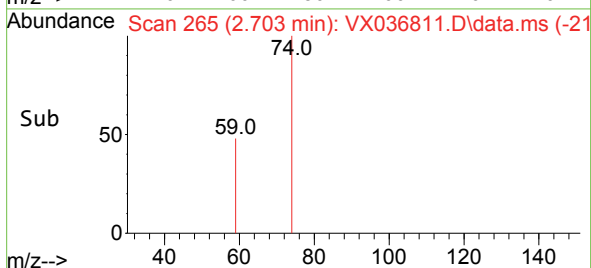
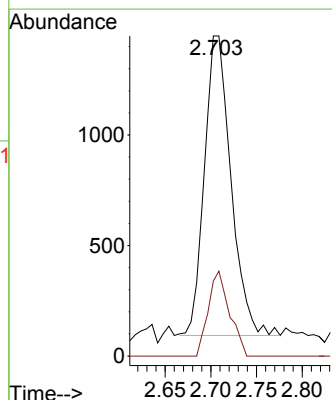
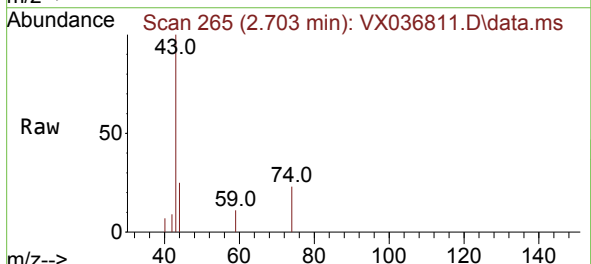
Instrument :
MSVOA_X
ClientSampleId :
ZHC#09

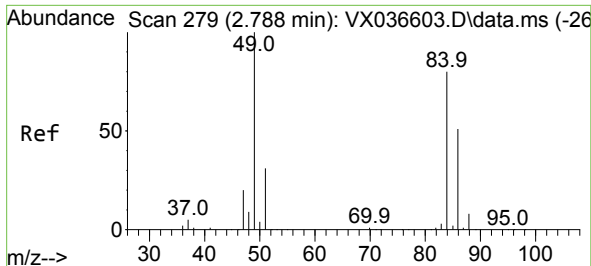
Tgt Ion: 43 Resp: 37902
Ion Ratio Lower Upper
43 100
58 31.6 21.9 32.9



#18
Methyl Acetate
Concen: 0.758 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.006 min
Lab File: VX036811.D
Acq: 04 Aug 2023 15:31

Tgt Ion: 43 Resp: 2740
Ion Ratio Lower Upper
43 100
74 22.5 17.8 26.8

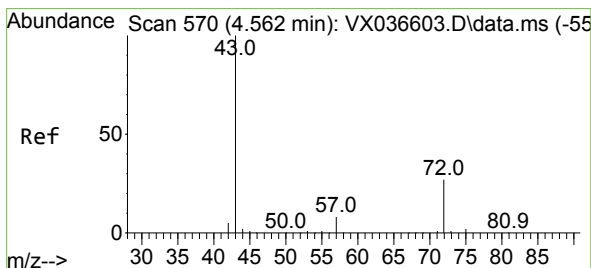
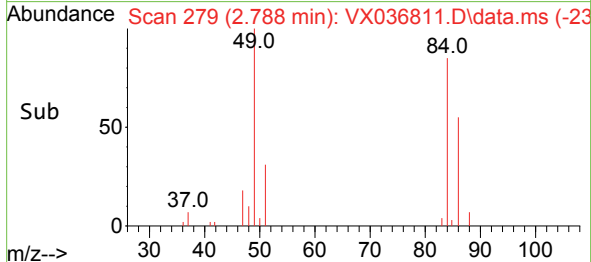
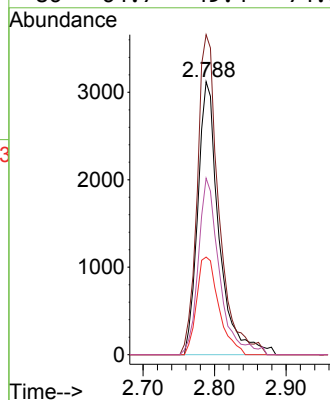
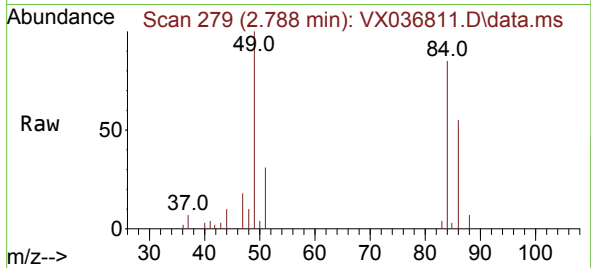




#20
Methylene Chloride
Concen: 3.364 ug/l
RT: 2.788 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX036811.D
Acq: 04 Aug 2023 15:31

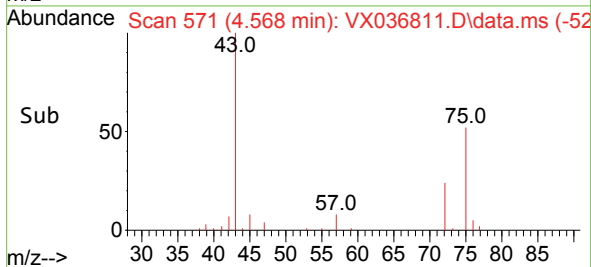
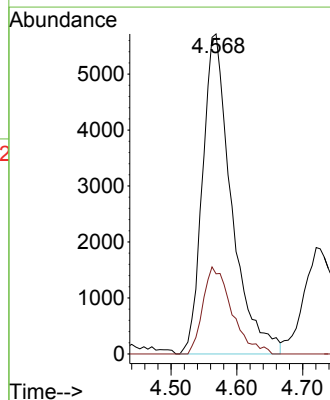
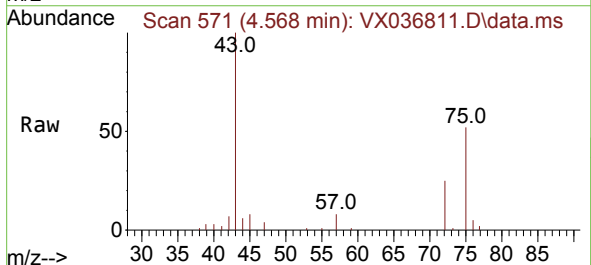
Instrument :
MSVOA_X
ClientSampleId :
ZHC#09

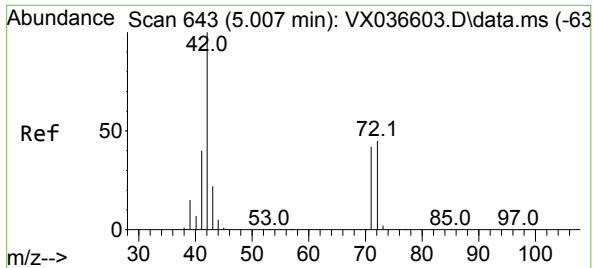
Tgt Ion:	84	Resp:	6425
Ion	Ratio	Lower	Upper
84	100		
49	117.2	103.6	155.4
51	35.8	33.8	50.6
86	64.7	49.4	74.0



#25
2-Butanone
Concen: 12.533 ug/l
RT: 4.568 min Scan# 571
Delta R.T. 0.006 min
Lab File: VX036811.D
Acq: 04 Aug 2023 15:31

Tgt Ion:	43	Resp:	17462
Ion	Ratio	Lower	Upper
43	100		
72	25.0	19.4	29.2





#29

Tetrahydrofuran

Concen: 0.769 ug/l

RT: 5.032 min Scan# 643

Delta R.T. 0.024 min

Lab File: VX036811.D

Acq: 04 Aug 2023 15:31

Instrument :

MSVOA_X

ClientSampleId :

ZHC#09

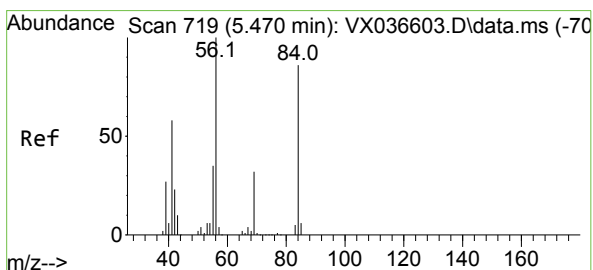
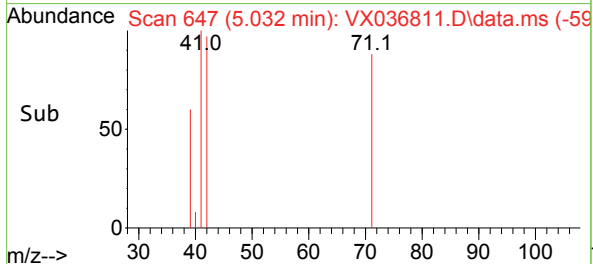
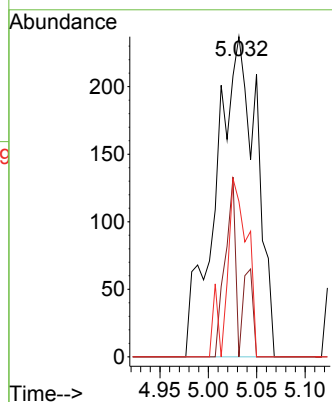
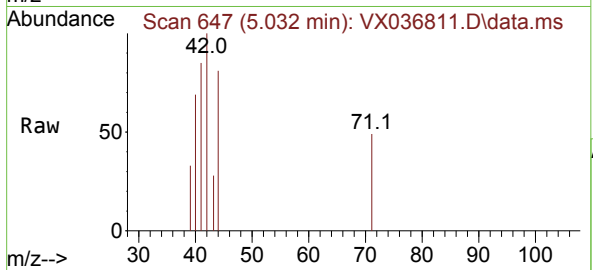
Tgt Ion: 42 Resp: 691

Ion Ratio Lower Upper

42 100

72 20.7 34.2 51.4#

71 28.2 32.2 48.2#



#31

Cyclohexane

Concen: 1.074 ug/l

RT: 5.556 min Scan# 733

Delta R.T. 0.085 min

Lab File: VX036811.D

Acq: 04 Aug 2023 15:31

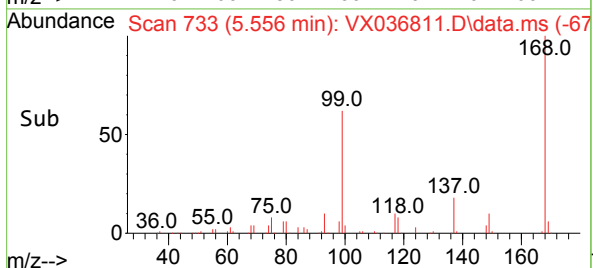
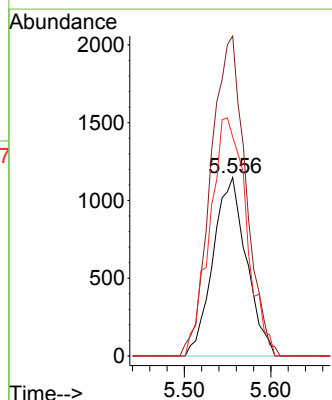
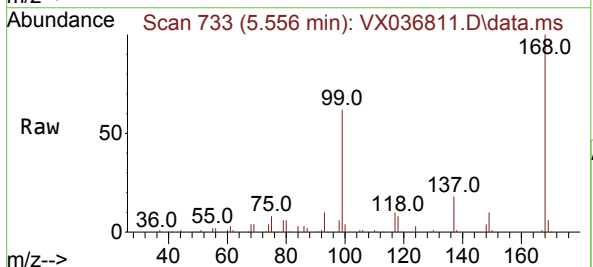
Tgt Ion: 56 Resp: 3076

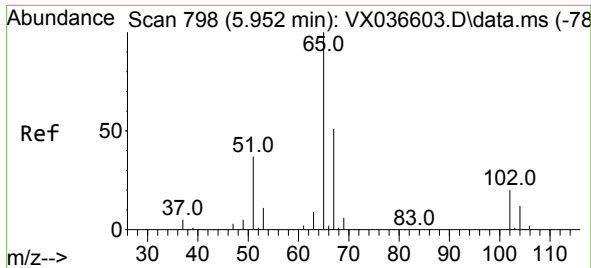
Ion Ratio Lower Upper

56 100

69 179.4 23.4 35.2#

84 122.8 65.9 98.9#

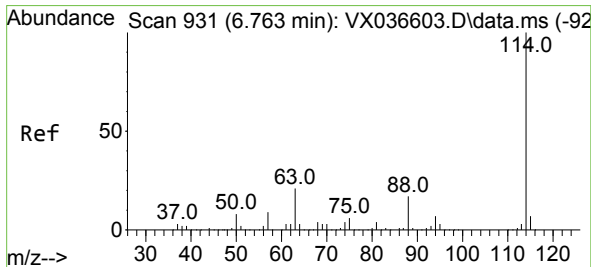
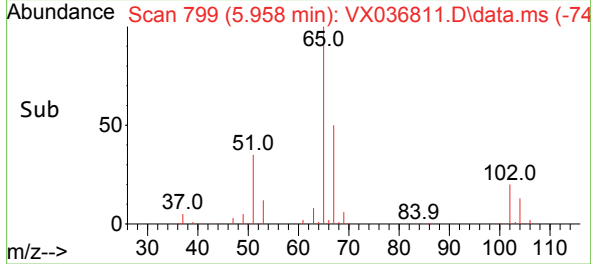
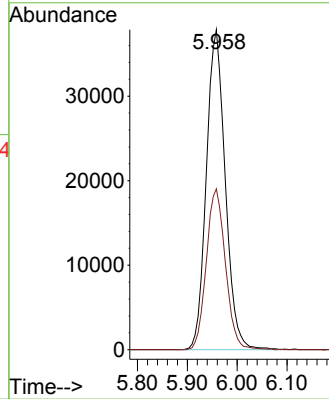
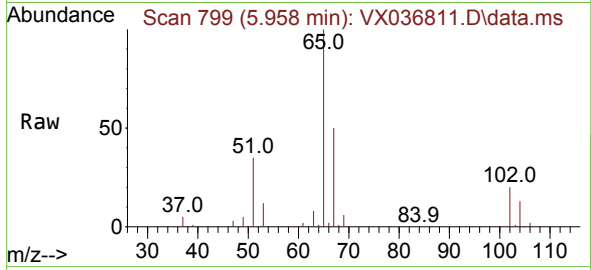




#33
 1,2-Dichloroethane-d4
 Concen: 48.180 ug/l
 RT: 5.958 min Scan# 798
 Delta R.T. 0.006 min
 Lab File: VX036811.D
 Acq: 04 Aug 2023 15:31

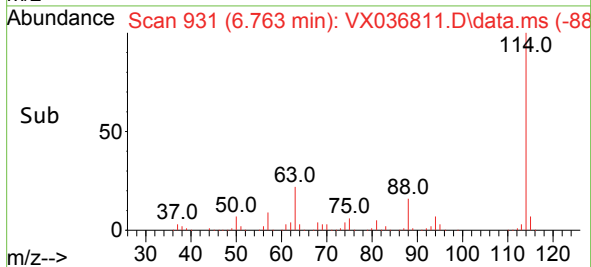
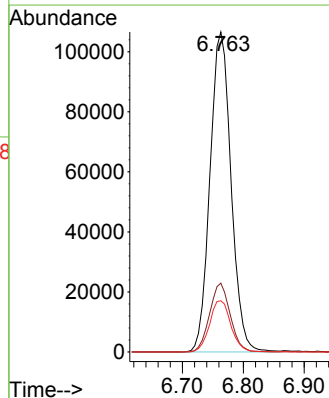
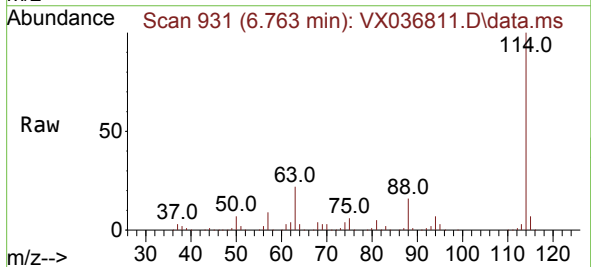
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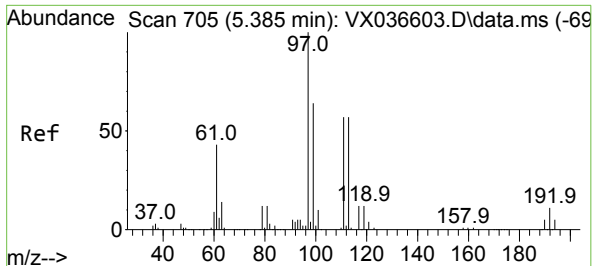
Tgt Ion: 65 Resp: 99707
 Ion Ratio Lower Upper
 65 100
 67 50.8 0.0 100.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.763 min Scan# 931
 Delta R.T. 0.000 min
 Lab File: VX036811.D
 Acq: 04 Aug 2023 15:31

Tgt Ion: 114 Resp: 256217
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 45.0
 88 16.0 0.0 36.6

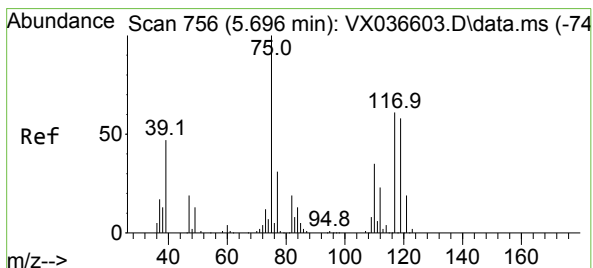
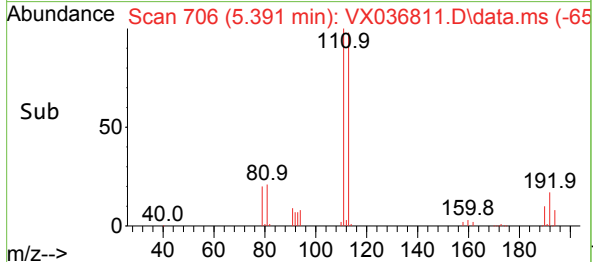
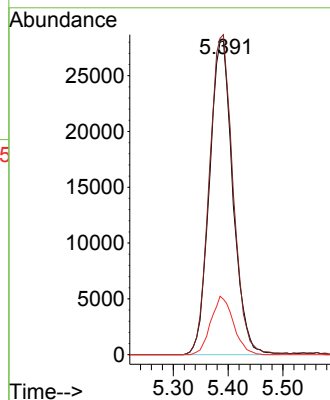
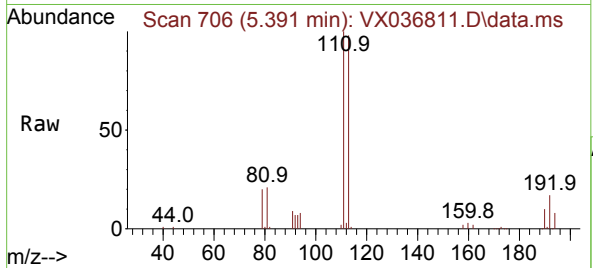




#35
Dibromofluoromethane
Concen: 47.200 ug/l
RT: 5.391 min Scan# 705
Delta R.T. 0.006 min
Lab File: VX036811.D
Acq: 04 Aug 2023 15:31

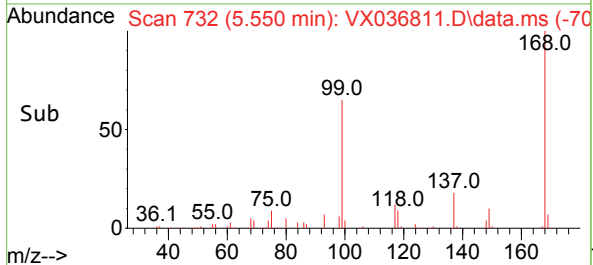
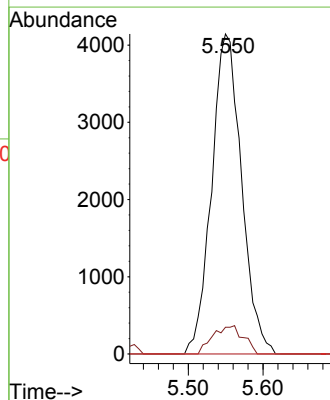
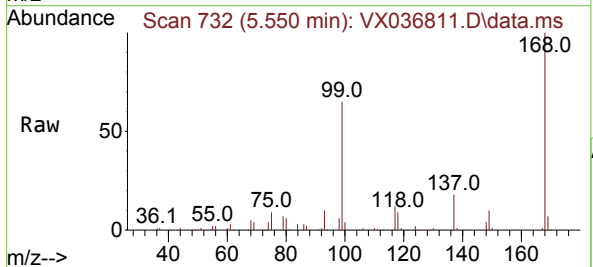
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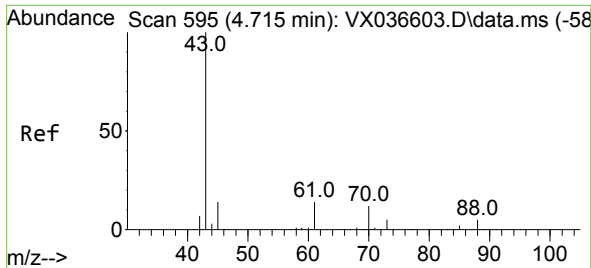
Tgt Ion:113 Resp: 83123
Ion Ratio Lower Upper
113 100
111 103.3 82.9 124.3
192 18.0 13.3 19.9



#36
1,1-Dichloropropene
Concen: 4.388 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.146 min
Lab File: VX036811.D
Acq: 04 Aug 2023 15:31

Tgt Ion: 75 Resp: 11517
Ion Ratio Lower Upper
75 100
110 9.0 17.0 50.9#
77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 2.165 ug/l

RT: 4.721 min Scan# 595

Delta R.T. 0.006 min

Lab File: VX036811.D

Acq: 04 Aug 2023 15:31

Instrument :

MSVOA_X

ClientSampleId :

ZHC#09

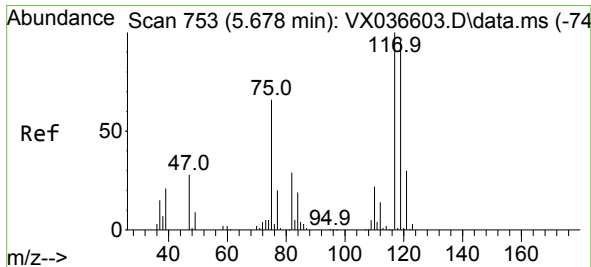
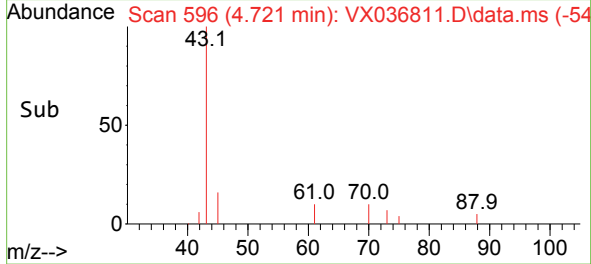
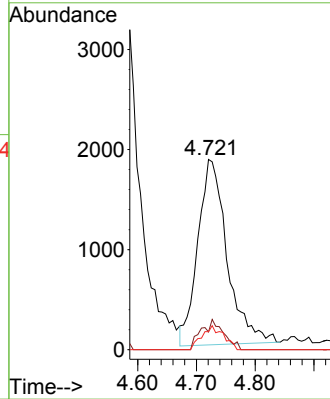
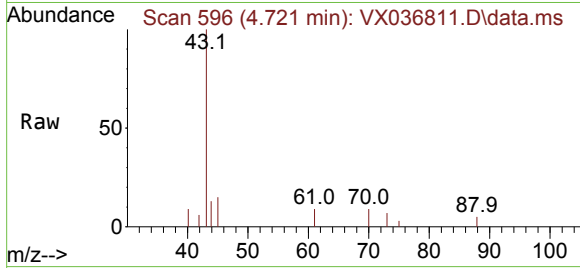
Tgt Ion: 43 Resp: 6433

Ion Ratio Lower Upper

43 100

61 12.4 10.6 16.0

70 9.4 8.3 12.5



#38

Carbon Tetrachloride

Concen: 5.414 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.128 min

Lab File: VX036811.D

Acq: 04 Aug 2023 15:31

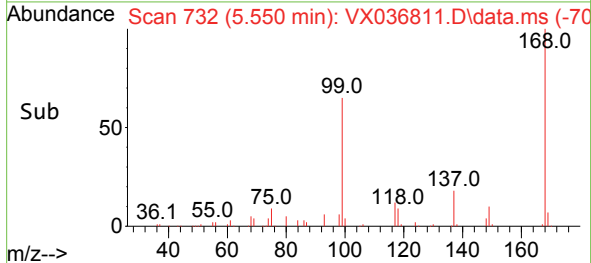
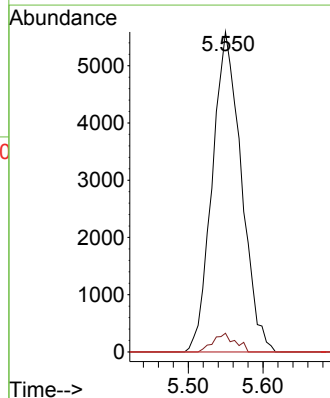
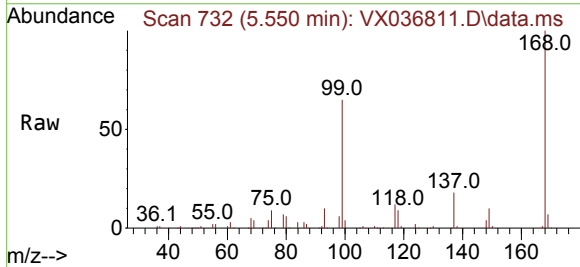
Tgt Ion: 117 Resp: 15109

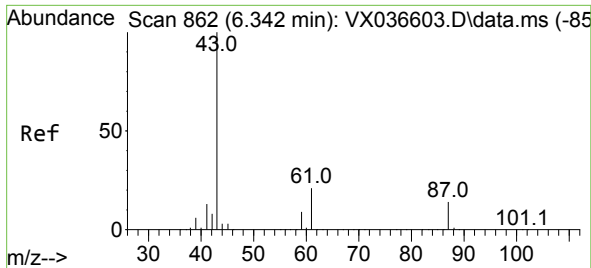
Ion Ratio Lower Upper

117 100

119 5.8 78.2 117.2#

121 0.0 24.4 36.6#

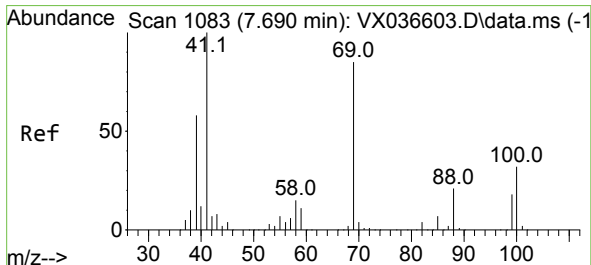
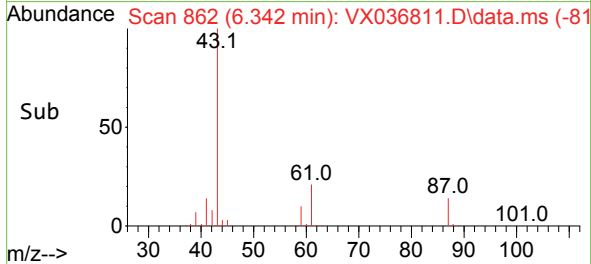
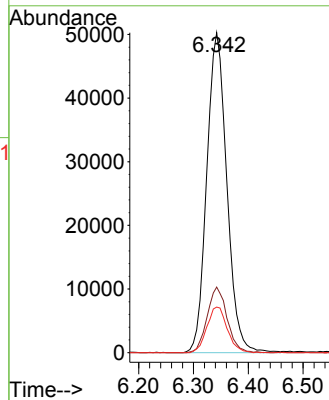
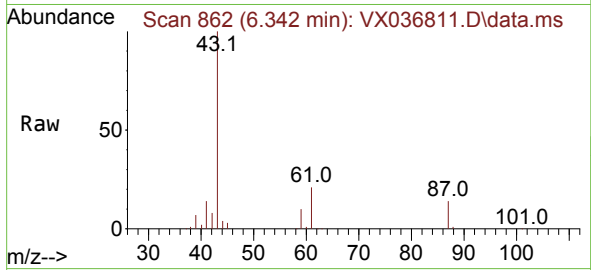




#43
Isopropyl Acetate
Concen: 24.985 ug/l
RT: 6.342 min Scan# 81
Delta R.T. -0.000 min
Lab File: VX036811.D
Acq: 04 Aug 2023 15:31

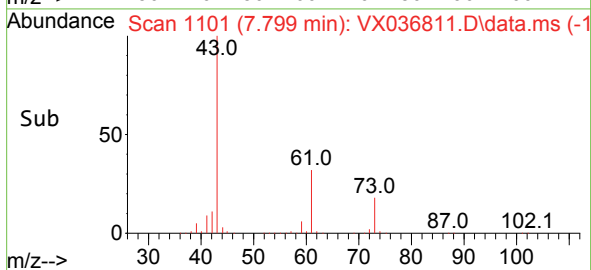
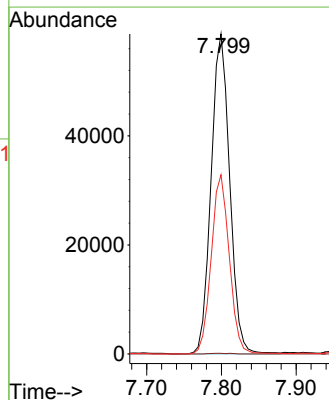
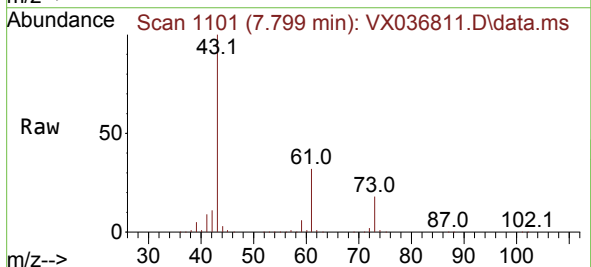
Instrument :
MSVOA_X
ClientSampleId :
ZHC#09

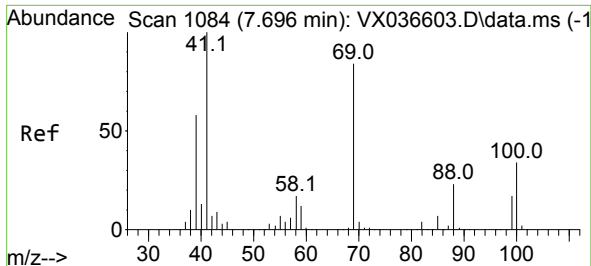
Tgt Ion: 43 Resp: 127778
Ion Ratio Lower Upper
43 100
61 20.3 15.2 22.8
87 14.5 9.8 14.6



#48
Methyl methacrylate
Concen: 42.715 ug/l
RT: 7.799 min Scan# 1101
Delta R.T. 0.110 min
Lab File: VX036811.D
Acq: 04 Aug 2023 15:31

Tgt Ion: 41 Resp: 101593
Ion Ratio Lower Upper
41 100
69 0.2 59.2 88.8#
39 54.6 47.7 71.5





#49

1,4-Dioxane

Concen: 4.704 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.104 min

Lab File: VX036811.D

Acq: 04 Aug 2023 15:31

Instrument :

MSVOA_X

ClientSampleId :

ZHC#09

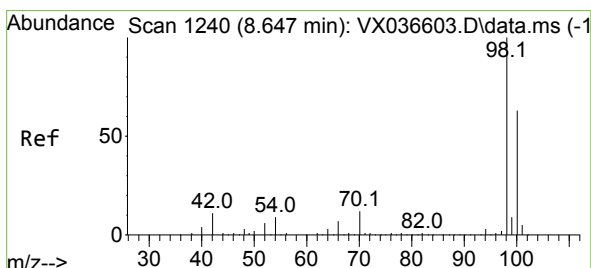
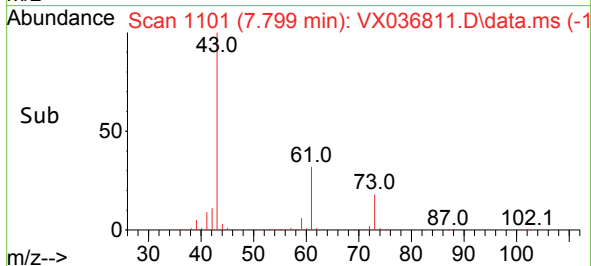
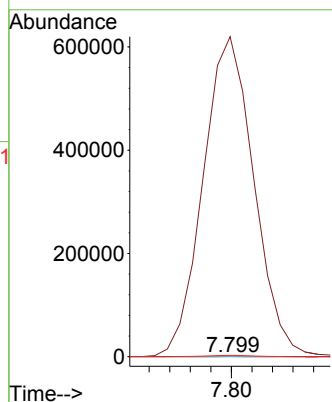
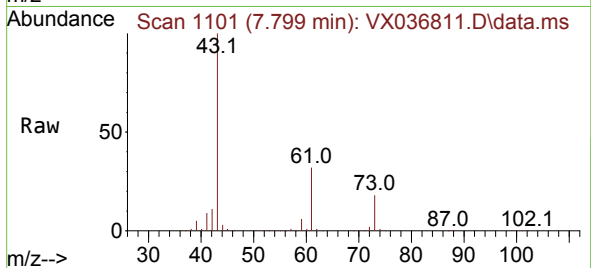
Tgt Ion: 88 Resp: 226

Ion Ratio Lower Upper

88 100

43 474786.3 0.0 0.0#

58 1891.6 60.1 90.1#



#50

Toluene-d8

Concen: 49.368 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX036811.D

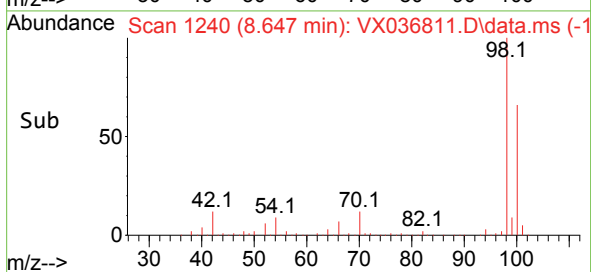
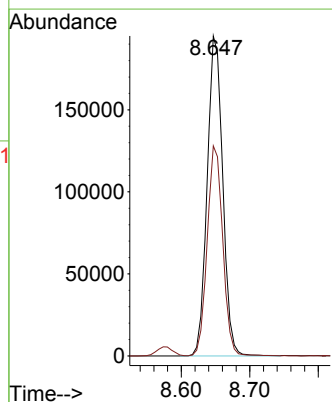
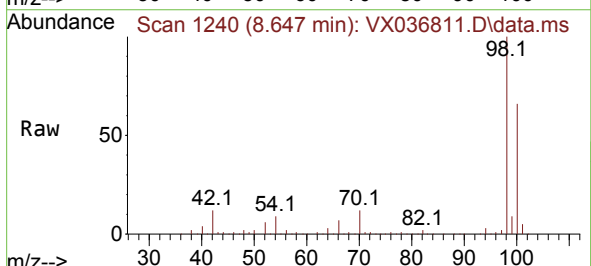
Acq: 04 Aug 2023 15:31

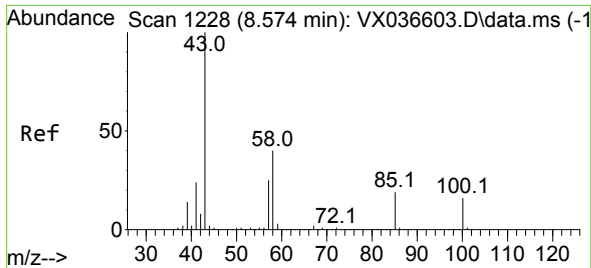
Tgt Ion: 98 Resp: 308315

Ion Ratio Lower Upper

98 100

100 65.8 53.1 79.7

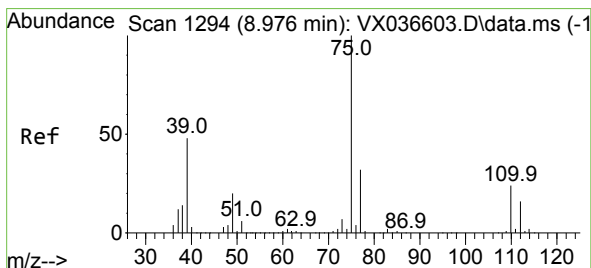
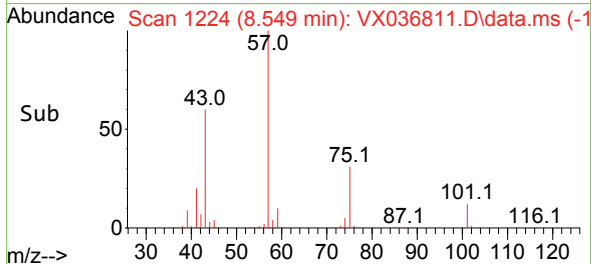
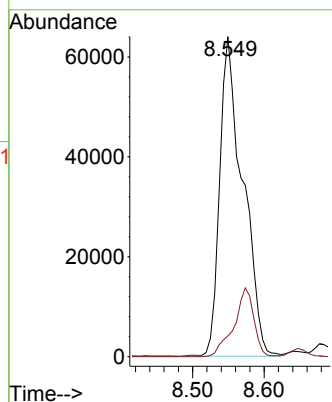
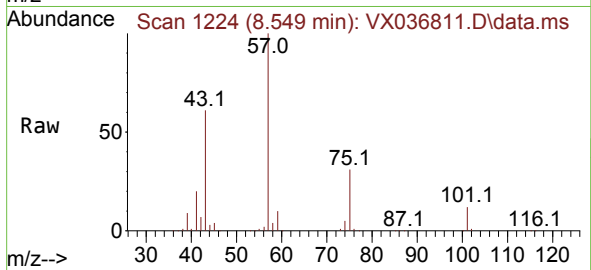




#51
4-Methyl-2-Pentanone
Concen: 50.789 ug/l
RT: 8.549 min Scan# 11
Delta R.T. -0.024 min
Lab File: VX036811.D
Acq: 04 Aug 2023 15:31

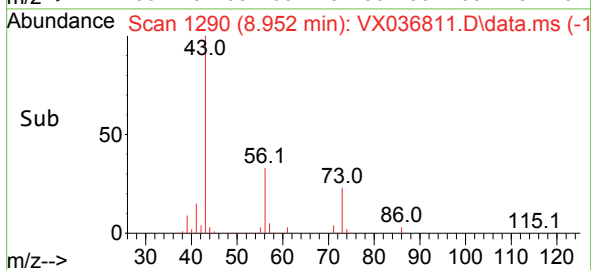
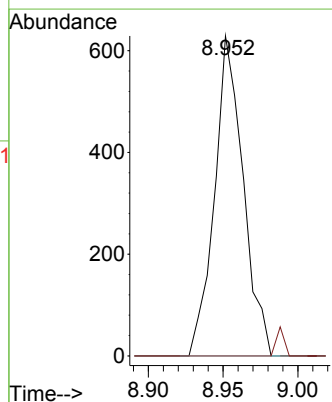
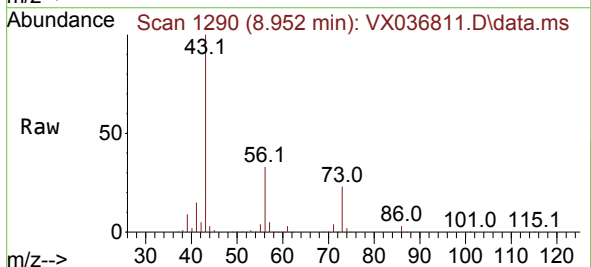
Instrument :
MSVOA_X
ClientSampleId :
ZHC#09

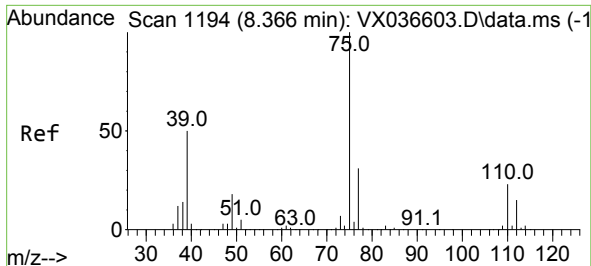
Tgt Ion: 43 Resp: 143739
Ion Ratio Lower Upper
43 100
58 0.0 30.4 45.6#



#53
t-1,3-Dichloropropene
Concen: 0.253 ug/l
RT: 8.952 min Scan# 1290
Delta R.T. -0.024 min
Lab File: VX036811.D
Acq: 04 Aug 2023 15:31

Tgt Ion: 75 Resp: 838
Ion Ratio Lower Upper
75 100
77 0.0 25.7 38.5#

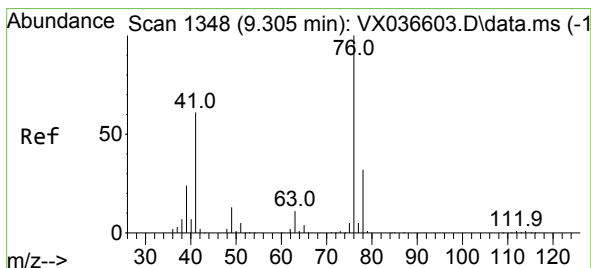
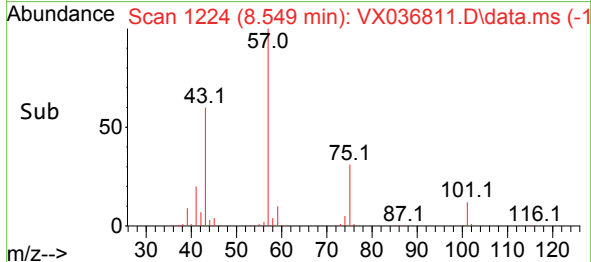
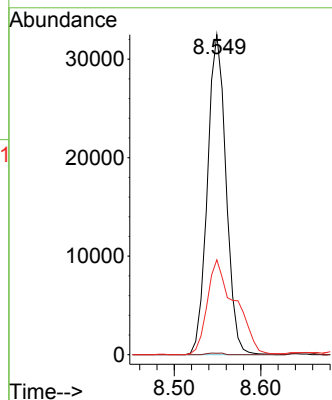
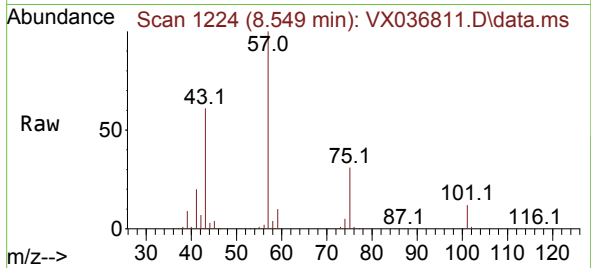




#54
 cis-1,3-Dichloropropene
 Concen: 13.864 ug/l
 RT: 8.549 min Scan# 1194
 Delta R.T. 0.183 min
 Lab File: VX036811.D
 Acq: 04 Aug 2023 15:31

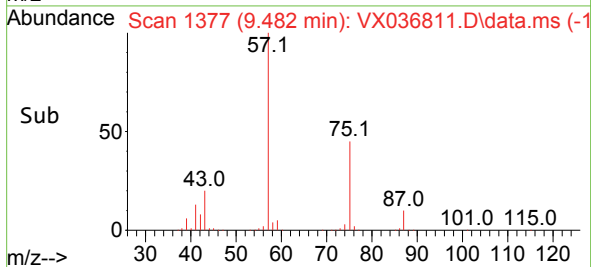
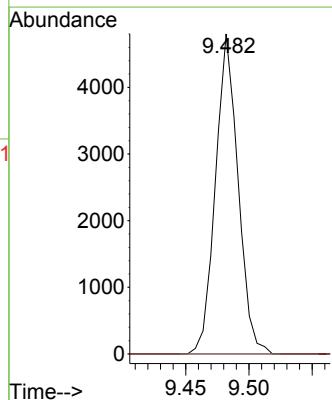
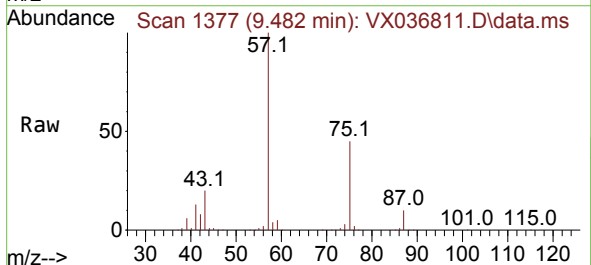
Instrument :
 MSVOA_X
 ClientSampleId :
 ZHC#09

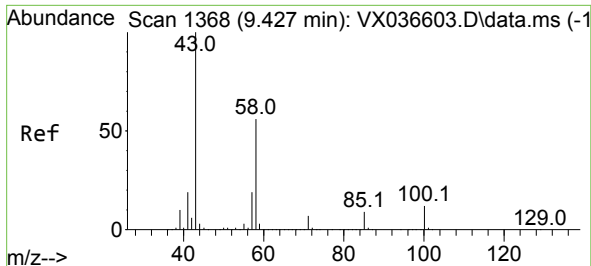
Tgt Ion: 75 Resp: 48435
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.3 37.9#
 39 29.6 46.7 70.1#



#57
 1,3-Dichloropropane
 Concen: 1.777 ug/l
 RT: 9.482 min Scan# 1377
 Delta R.T. 0.177 min
 Lab File: VX036811.D
 Acq: 04 Aug 2023 15:31

Tgt Ion: 76 Resp: 5954
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.1 39.1#

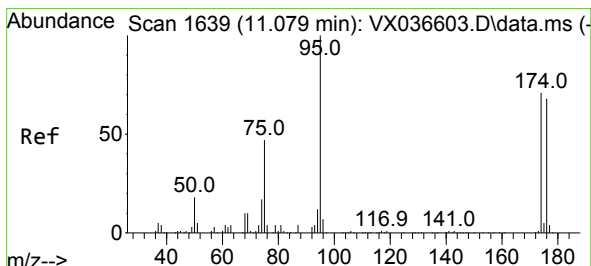
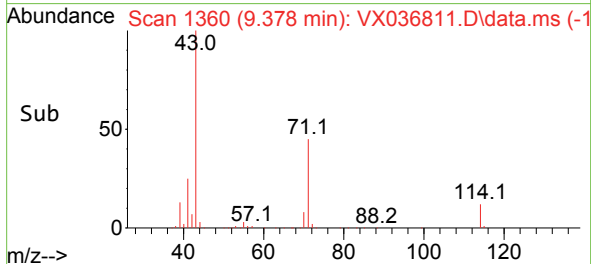
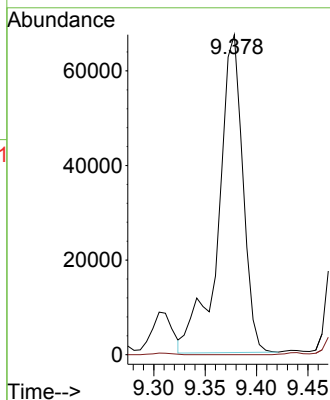
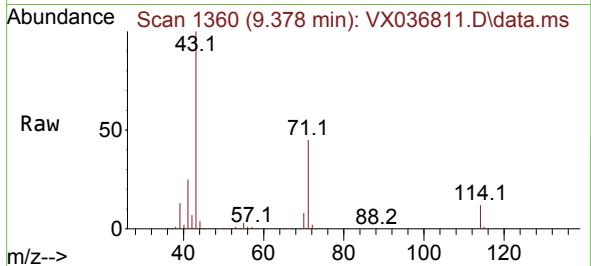




#59
2-Hexanone
Concen: 52.783 ug/l
RT: 9.378 min Scan# 11
Delta R.T. -0.049 min
Lab File: VX036811.D
Acq: 04 Aug 2023 15:31

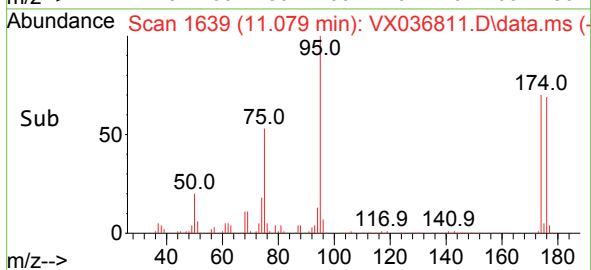
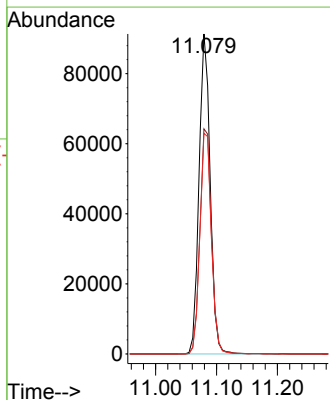
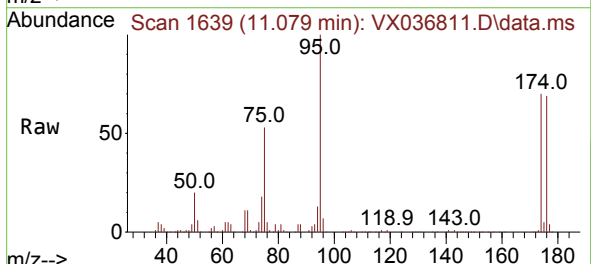
Instrument :
MSVOA_X
ClientSampleId :
ZHC#09

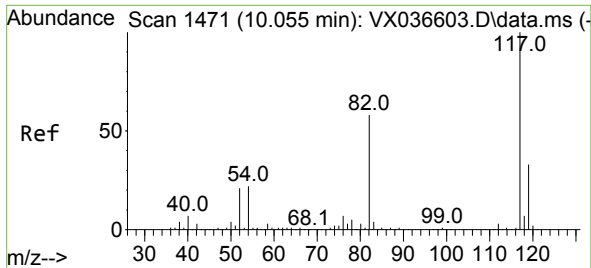
Tgt Ion: 43 Resp: 110867
Ion Ratio Lower Upper
43 100
58 0.0 26.2 78.5#



#62
4-Bromofluorobenzene
Concen: 49.260 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX036811.D
Acq: 04 Aug 2023 15:31

Tgt Ion: 95 Resp: 116067
Ion Ratio Lower Upper
95 100
174 73.0 0.0 135.6
176 71.3 0.0 131.0

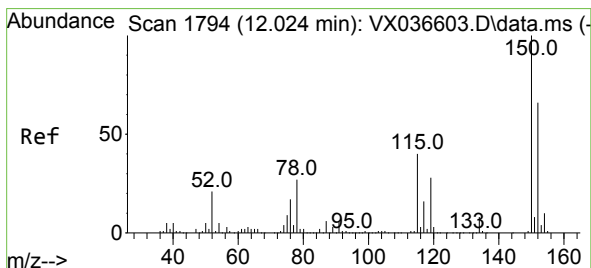
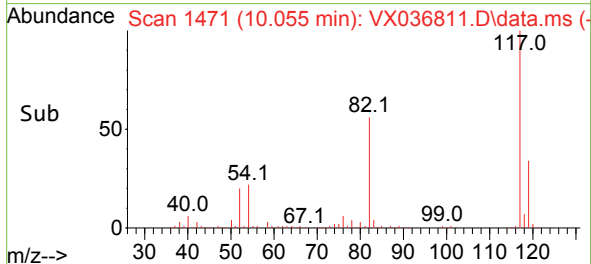
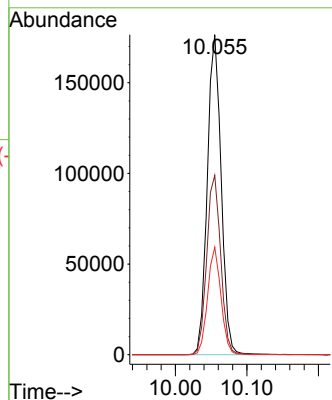
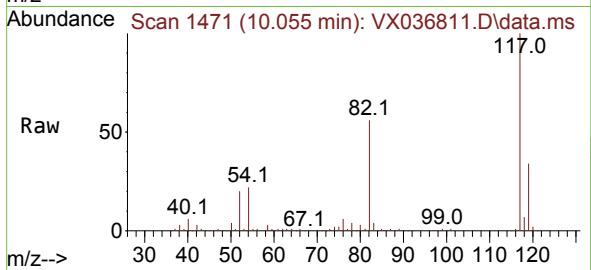




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX036811.D
Acq: 04 Aug 2023 15:31

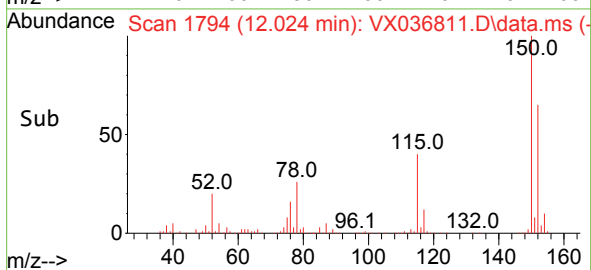
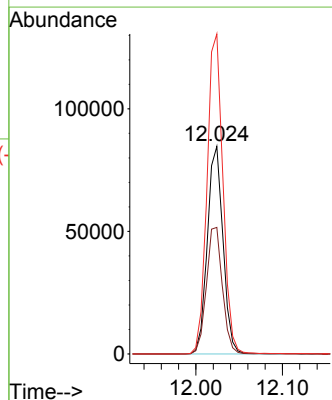
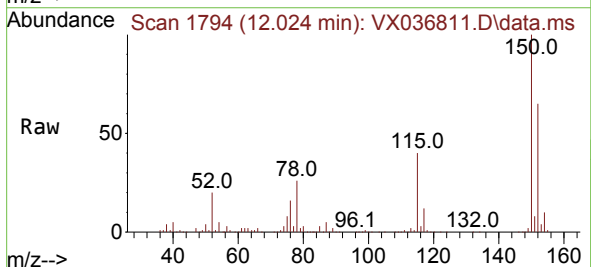
Instrument :
MSVOA_X
ClientSampleId :
ZHC#09

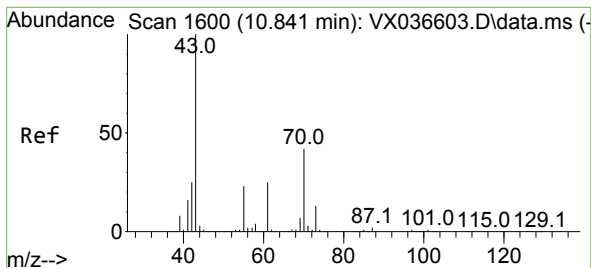
Tgt Ion:117 Resp: 237645
Ion Ratio Lower Upper
117 100
82 56.0 46.2 69.4
119 33.6 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX036811.D
Acq: 04 Aug 2023 15:31

Tgt Ion:152 Resp: 106658
Ion Ratio Lower Upper
152 100
115 62.3 43.3 129.9
150 155.8 0.0 345.0





#74

N-amy1 acetate

Concen: 0.244 ug/l

RT: 10.817 min Scan# 1

Delta R.T. -0.024 min

Lab File: VX036811.D

Acq: 04 Aug 2023 15:31

Instrument :

MSVOA_X

ClientSampleId :

ZHC#09

Tgt Ion: 43 Resp: 1006

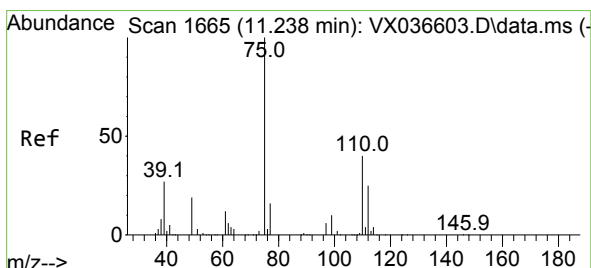
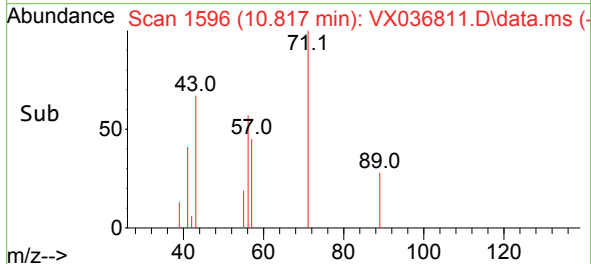
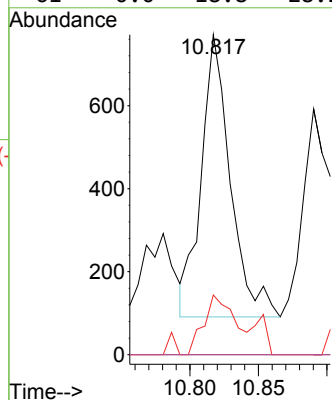
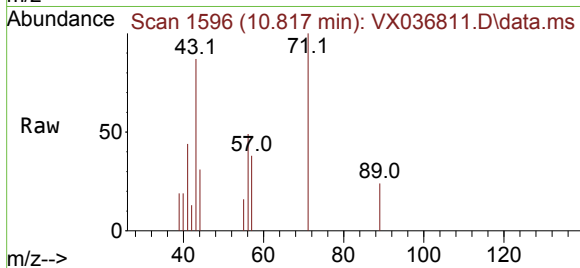
Ion Ratio Lower Upper

43 100

70 0.0 32.9 49.3#

55 22.7 19.3 28.9

61 0.0 18.8 28.2#



#76

1,2,3-Trichloropropane

Concen: 24.290 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX036811.D

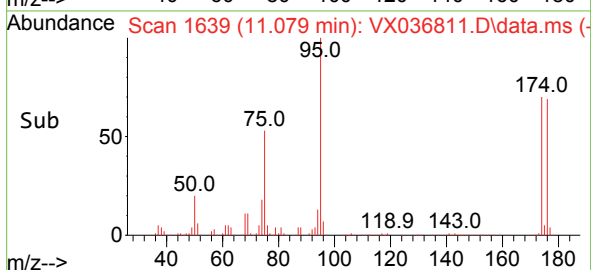
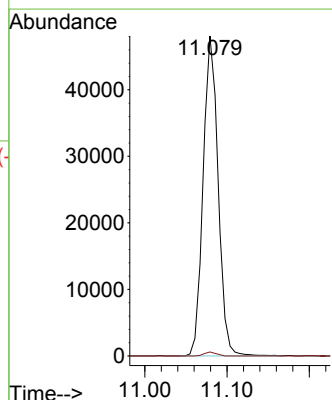
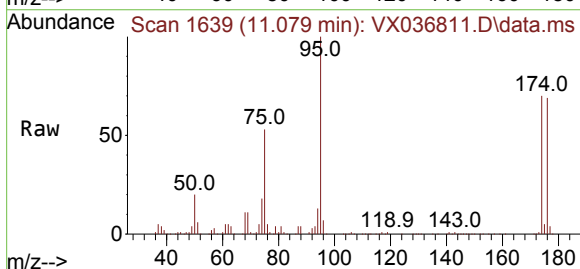
Acq: 04 Aug 2023 15:31

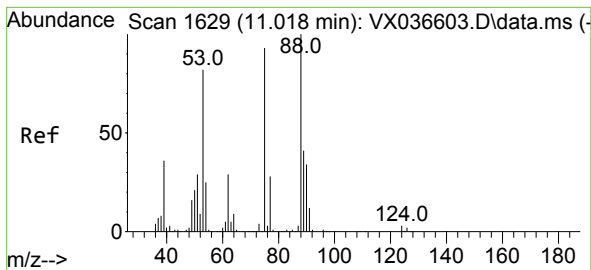
Tgt Ion: 75 Resp: 60936

Ion Ratio Lower Upper

75 100

77 1.0 19.1 57.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 55.054 ug/l
 RT: 11.079 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX036811.D
 Acq: 04 Aug 2023 15:31

Instrument :
 MSVOA_X
 ClientSampleId :
 ZHC#09

Tgt Ion: 75 Resp: 60936
 Ion Ratio Lower Upper
 75 100
 53 0.0 90.5 135.7#
 89 0.0 36.9 55.3#

