

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080423\
 Data File : VX036804.D
 Acq On : 04 Aug 2023 12:43
 Operator : JC/MD
 Sample : ZHC#02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ZHC#02

Quant Time: Aug 05 00:09:41 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

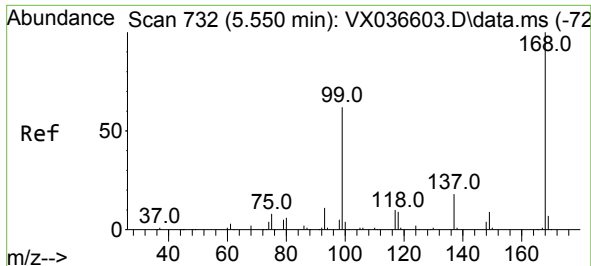
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.556	168	136115	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	248399	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	225772	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	95473	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	95787	47.560	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	95.120%		
35) Dibromofluoromethane	5.385	113	80096	46.912	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	93.820%		
50) Toluene-d8	8.647	98	296638	48.993	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	97.980%		
62) 4-Bromofluorobenzene	11.079	95	107684	47.140	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	94.280%		
Target Compounds						Qvalue
5) Bromomethane	1.611	94	207	0.208	ug/l	83
11) Tert butyl alcohol	2.953	59	6685	14.020	ug/l #	82
13) Acrolein	2.227	56	307	1.128	ug/l #	77
16) Acetone	2.380	43	54569	65.294	ug/l	91
17) Carbon Disulfide	2.514	76	864	0.205	ug/l #	76
18) Methyl Acetate	2.703	43	2195	0.624	ug/l	93
20) Methylene Chloride	2.788	84	8860	4.767	ug/l	95
25) 2-Butanone	4.562	43	30508	22.499	ug/l	94
29) Tetrahydrofuran	5.019	42	524	0.599	ug/l #	34
31) Cyclohexane	5.556	56	3111	1.116	ug/l #	1
36) 1,1-Dichloropropene	5.550	75	11562	4.543	ug/l #	51
37) Ethyl Acetate	4.721	43	8959	3.110	ug/l #	97
38) Carbon Tetrachloride	5.550	117	14910	5.511	ug/l #	15
43) Isopropyl Acetate	6.342	43	143011	28.844	ug/l	95
48) Methyl methacrylate	7.799	41	113450	49.202	ug/l #	48
49) 1,4-Dioxane	7.793	88	205	4.401	ug/l #	1
51) 4-Methyl-2-Pentanone	8.549	43	116938	42.619	ug/l #	37
53) t-1,3-Dichloropropene	8.958	75	1042	0.325	ug/l #	43
54) cis-1,3-Dichloropropene	8.549	75	52995	15.647	ug/l #	55
57) 1,3-Dichloropropane	9.482	76	6441	1.983	ug/l #	42
59) 2-Hexanone	9.378	43	124960	61.365	ug/l #	26
74) N-amyl acetate	10.817	43	1002	0.272	ug/l #	44
76) 1,2,3-Trichloropropane	11.079	75	56234	25.042	ug/l #	38
81) trans-1,4-Dichloro-2-b...	11.079	75	56234	56.758	ug/l #	5

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

Quant Time: Aug 05 00:09:41 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

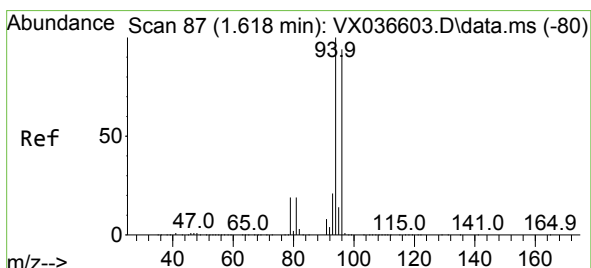
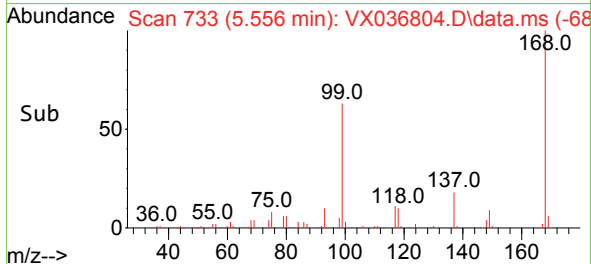
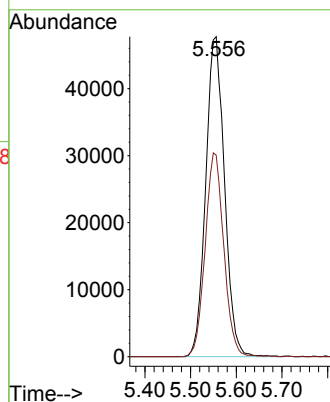
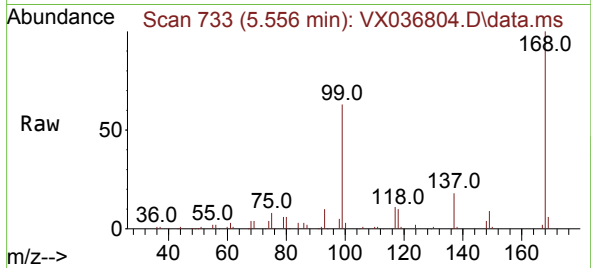




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX036804.D
Acq: 04 Aug 2023 12:43

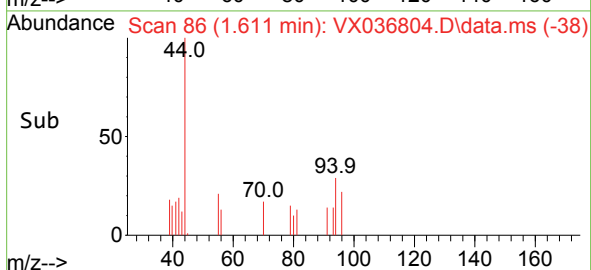
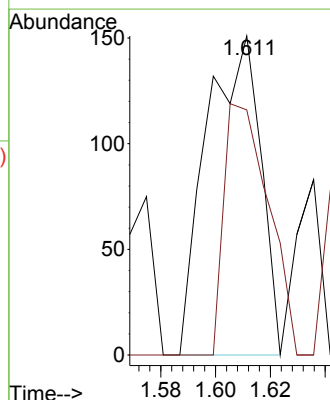
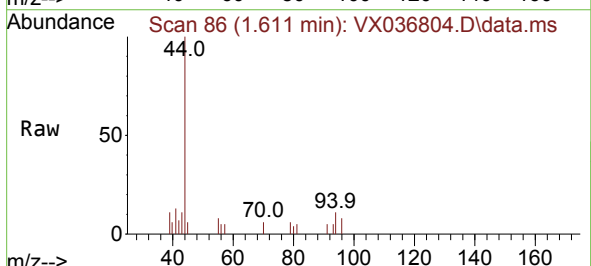
Instrument :
MSVOA_X
ClientSampleId :
ZHC#02

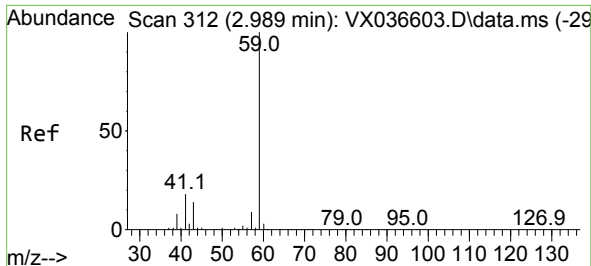
Tgt Ion:168 Resp: 136115
Ion Ratio Lower Upper
168 100
99 63.0 56.6 85.0



#5
Bromomethane
Concen: 0.208 ug/l
RT: 1.611 min Scan# 86
Delta R.T. -0.006 min
Lab File: VX036804.D
Acq: 04 Aug 2023 12:43

Tgt Ion: 94 Resp: 207
Ion Ratio Lower Upper
94 100
96 76.8 74.6 111.8

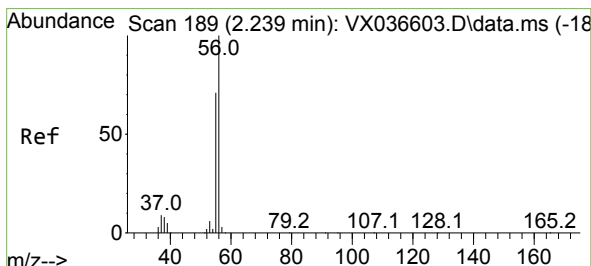
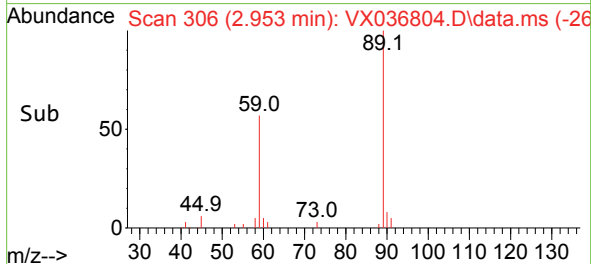
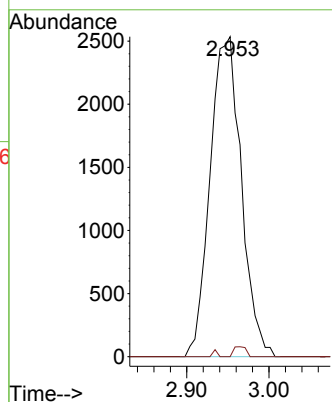
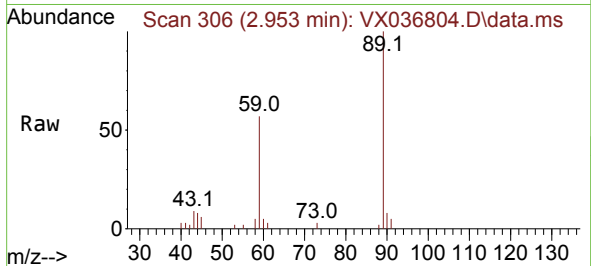




#11
Tert butyl alcohol
Concen: 14.020 ug/l
RT: 2.953 min Scan# 306
Delta R.T. -0.037 min
Lab File: VX036804.D
Acq: 04 Aug 2023 12:43

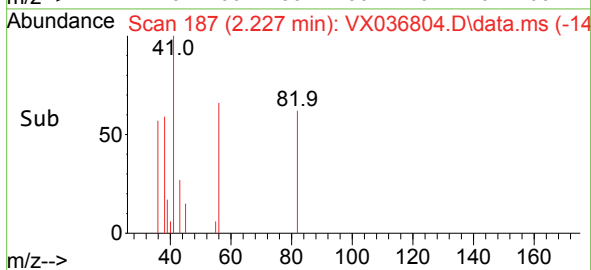
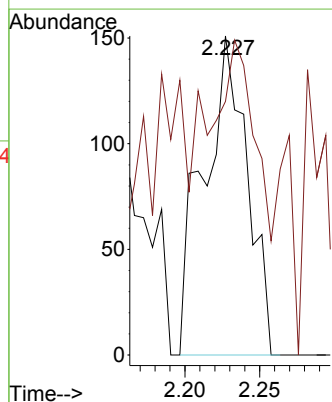
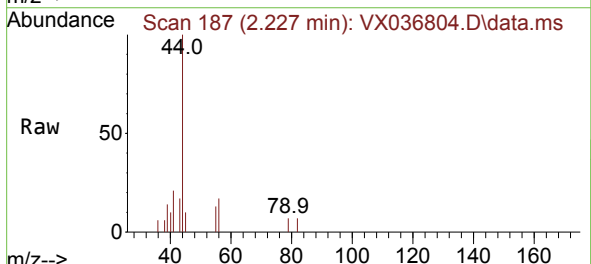
Instrument :
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ClientSampleId :
ZHC#02

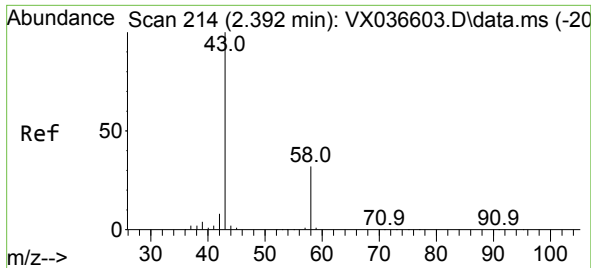
Tgt Ion: 59 Resp: 6685
Ion Ratio Lower Upper
59 100
57 1.2 6.0 9.0#



#13
Acrolein
Concen: 1.128 ug/l
RT: 2.227 min Scan# 187
Delta R.T. -0.012 min
Lab File: VX036804.D
Acq: 04 Aug 2023 12:43

Tgt Ion: 56 Resp: 307
Ion Ratio Lower Upper
56 100
55 52.1 57.1 85.7#

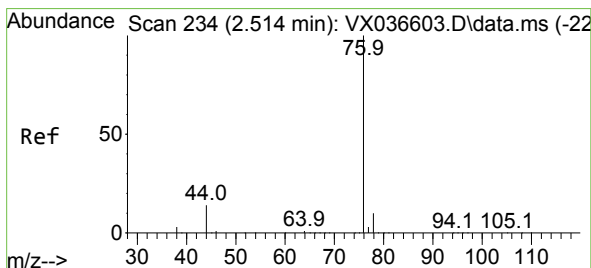
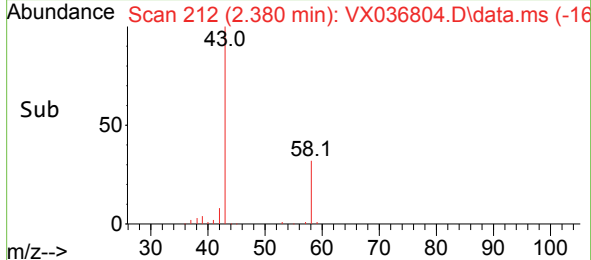
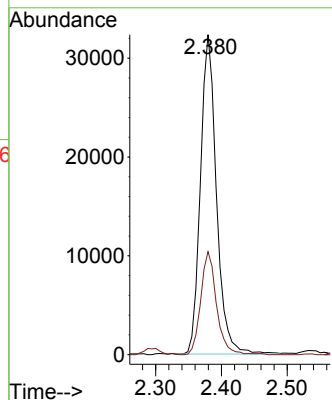
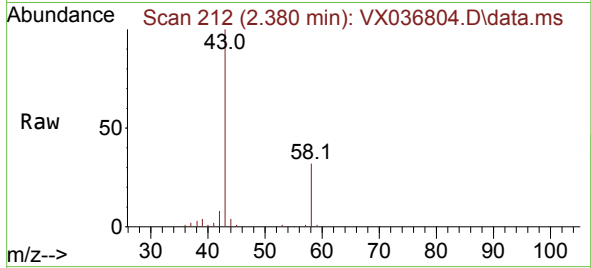




#16
Acetone
Concen: 65.294 ug/l
RT: 2.380 min Scan# 214
Delta R.T. -0.012 min
Lab File: VX036804.D
Acq: 04 Aug 2023 12:43

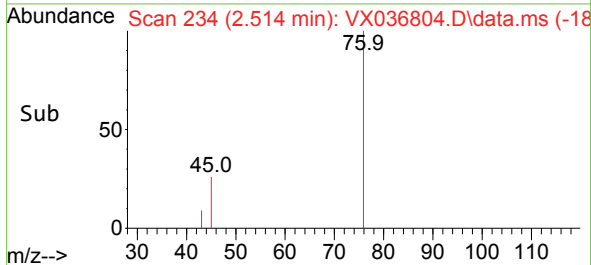
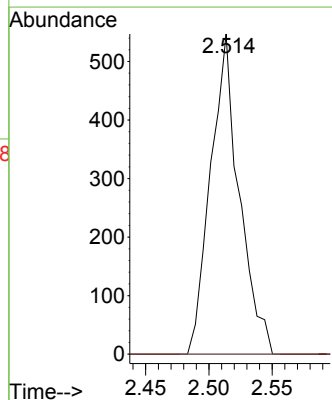
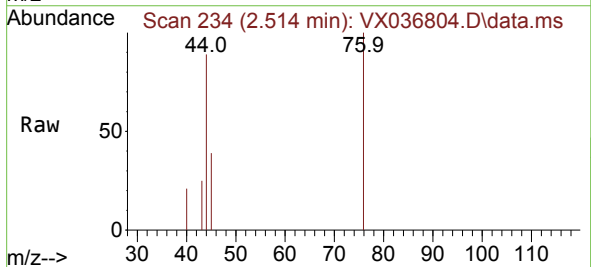
Instrument :
MSVOA_X
ClientSampleId :
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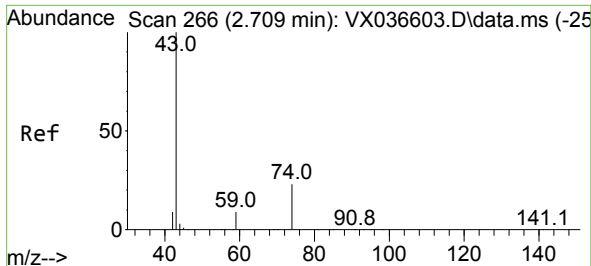
Tgt Ion: 43 Resp: 54569
Ion Ratio Lower Upper
43 100
58 32.3 21.9 32.9



#17
Carbon Disulfide
Concen: 0.205 ug/l
RT: 2.514 min Scan# 234
Delta R.T. -0.000 min
Lab File: VX036804.D
Acq: 04 Aug 2023 12:43

Tgt Ion: 76 Resp: 864
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.6#

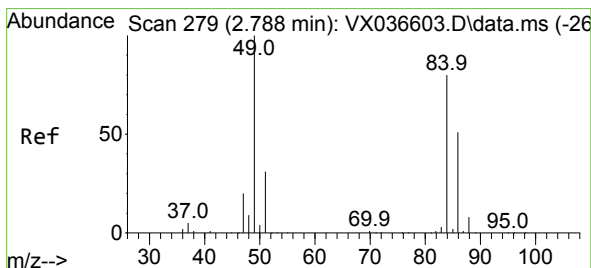
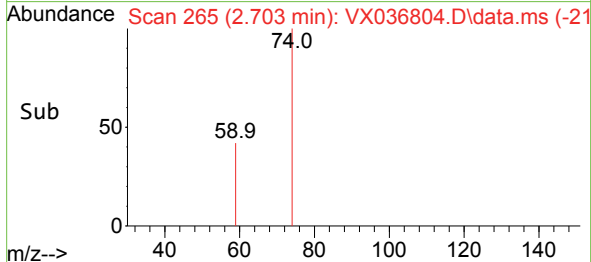
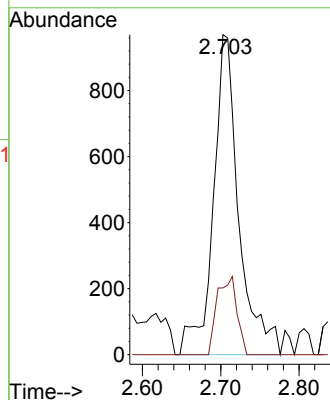
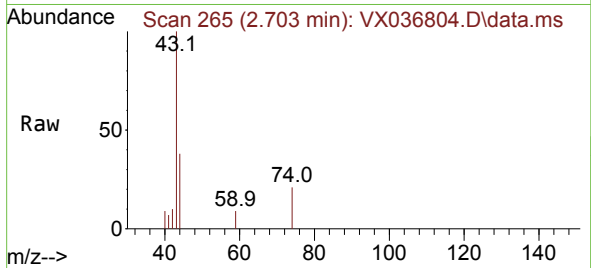




#18
Methyl Acetate
Concen: 0.624 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.006 min
Lab File: VX036804.D
Acq: 04 Aug 2023 12:43

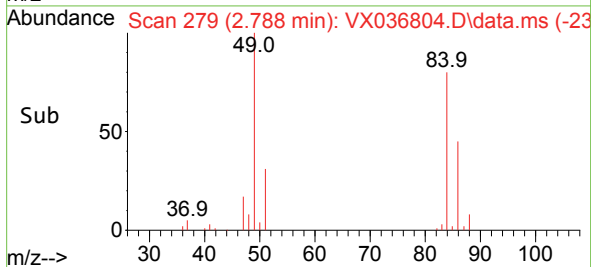
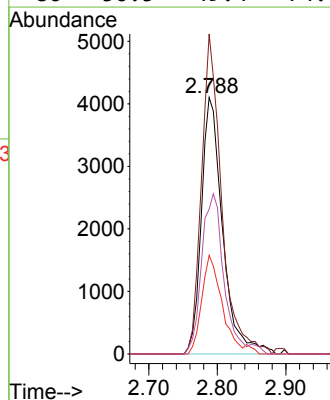
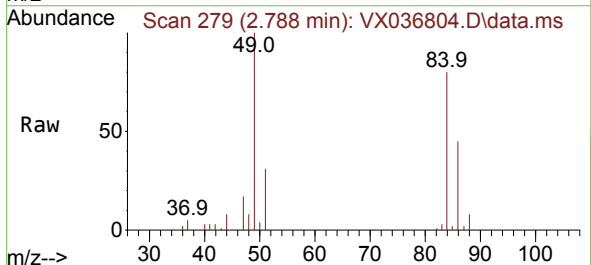
Instrument :
MSVOA_X
ClientSampleId :
ZHC#02

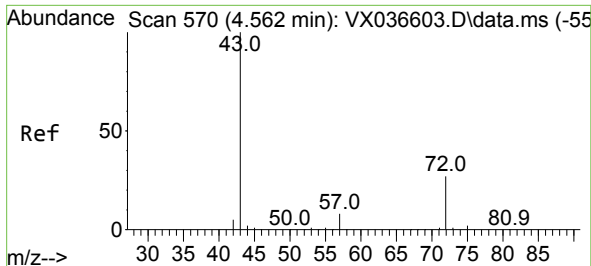
Tgt Ion: 43 Resp: 2195
Ion Ratio Lower Upper
43 100
74 18.9 17.8 26.8



#20
Methylene Chloride
Concen: 4.767 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX036804.D
Acq: 04 Aug 2023 12:43

Tgt Ion: 84 Resp: 8860
Ion Ratio Lower Upper
84 100
49 124.7 103.6 155.4
51 38.4 33.8 50.6
86 56.5 49.4 74.0

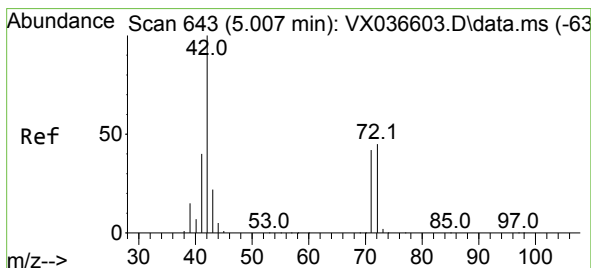
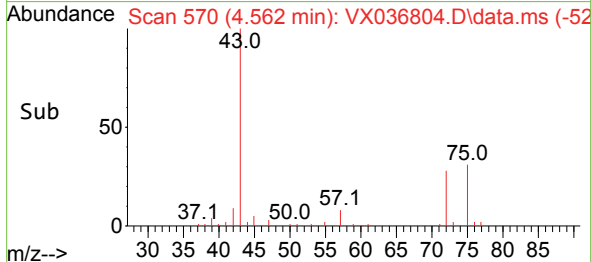
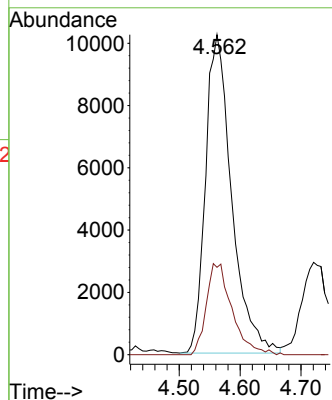
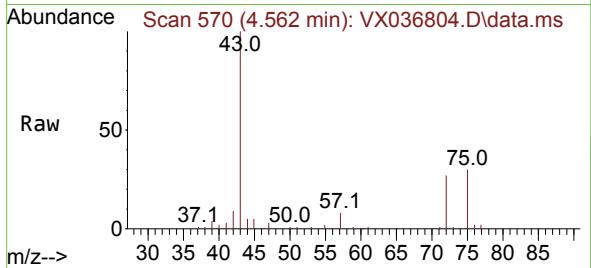




#25
2-Butanone
Concen: 22.499 ug/l
RT: 4.562 min Scan# 51
Delta R.T. -0.000 min
Lab File: VX036804.D
Acq: 04 Aug 2023 12:43

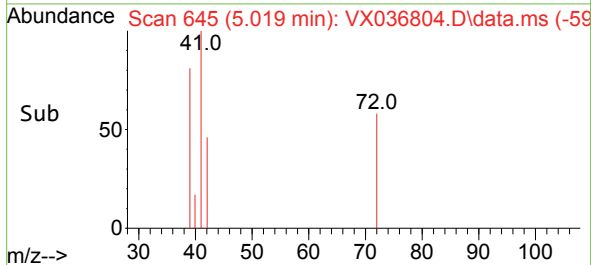
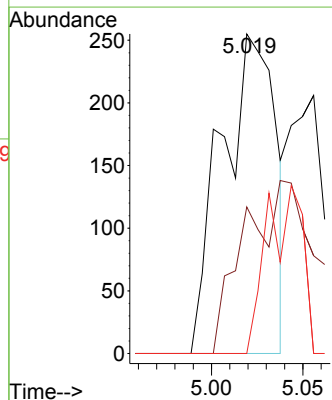
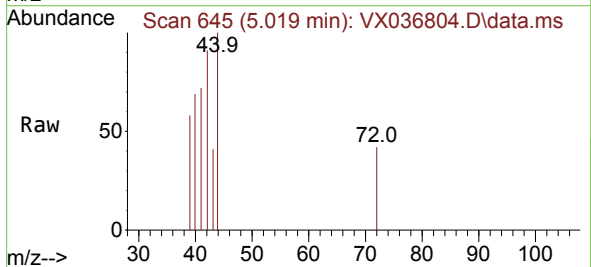
Instrument :
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ClientSampleId :
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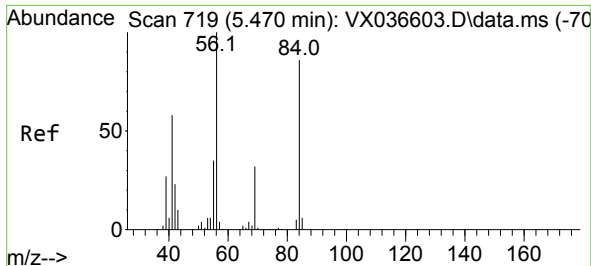
Tgt Ion: 43 Resp: 30508
Ion Ratio Lower Upper
43 100
72 27.4 19.4 29.2



#29
Tetrahydrofuran
Concen: 0.599 ug/l
RT: 5.019 min Scan# 645
Delta R.T. 0.012 min
Lab File: VX036804.D
Acq: 04 Aug 2023 12:43

Tgt Ion: 42 Resp: 524
Ion Ratio Lower Upper
42 100
72 0.0 34.2 51.4#
71 0.0 32.2 48.2#

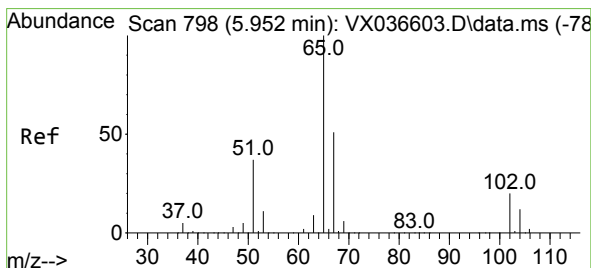
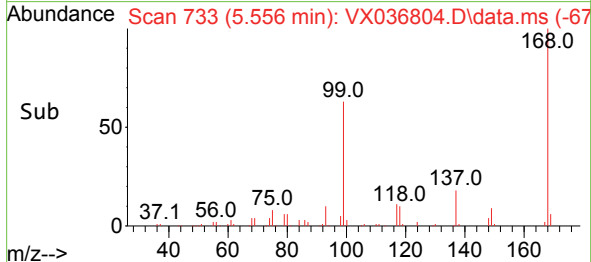
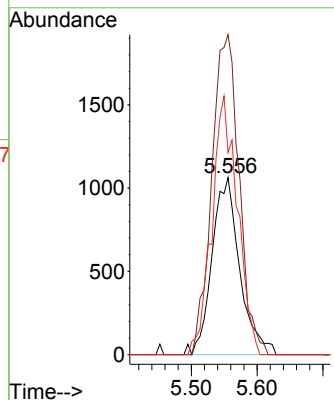
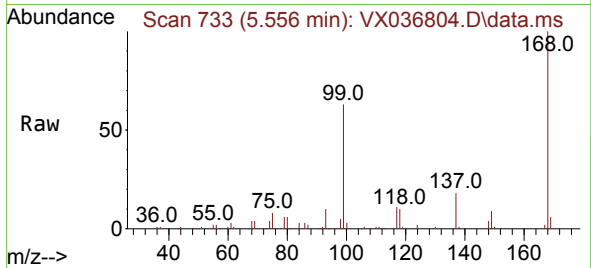




#31
Cyclohexane
Concen: 1.116 ug/l
RT: 5.556 min Scan# 719
Delta R.T. 0.085 min
Lab File: VX036804.D
Acq: 04 Aug 2023 12:43

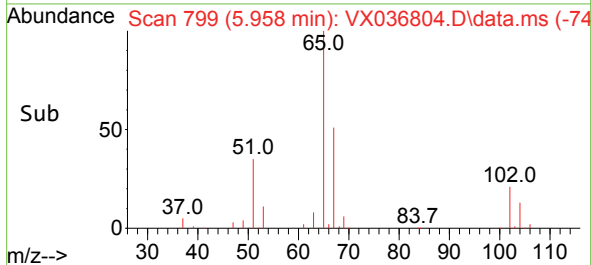
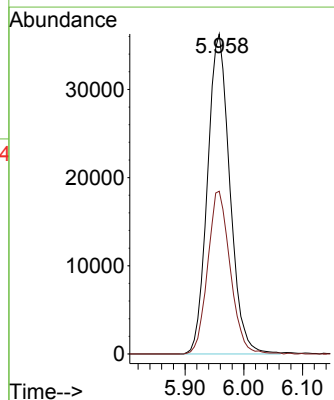
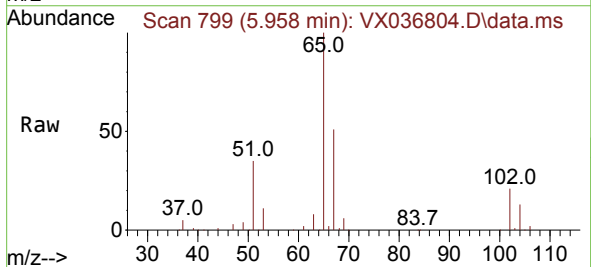
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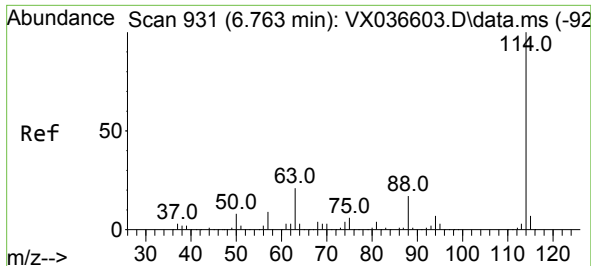
Tgt Ion: 56 Resp: 3111
Ion Ratio Lower Upper
56 100
69 180.6 23.4 35.2#
84 114.2 65.9 98.9#



#33
1,2-Dichloroethane-d4
Concen: 47.560 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.006 min
Lab File: VX036804.D
Acq: 04 Aug 2023 12:43

Tgt Ion: 65 Resp: 95787
Ion Ratio Lower Upper
65 100
67 51.3 0.0 100.2

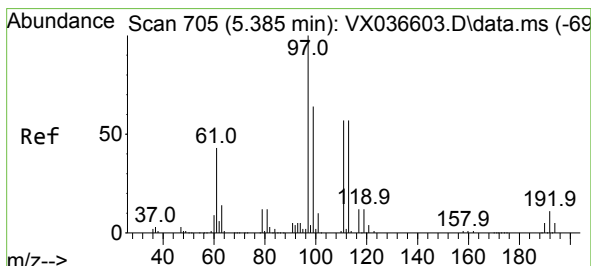
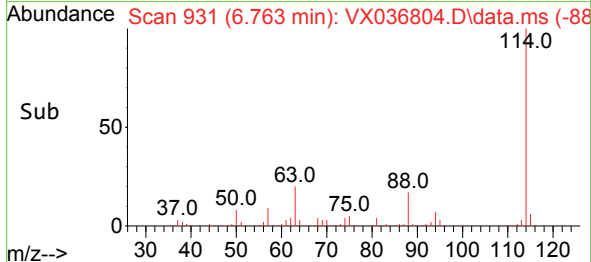
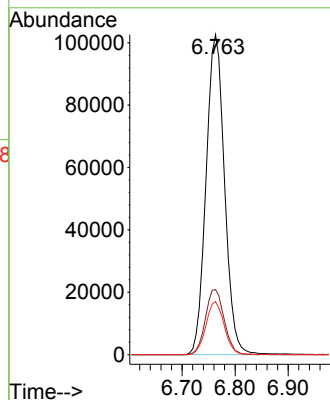
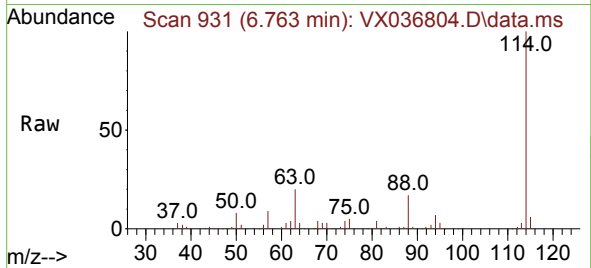




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX036804.D
Acq: 04 Aug 2023 12:43

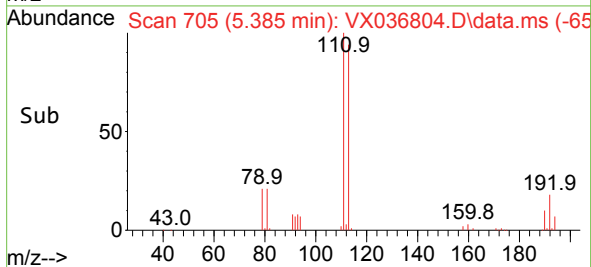
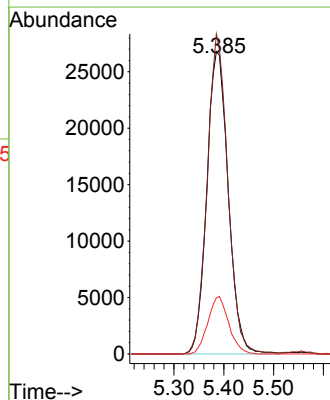
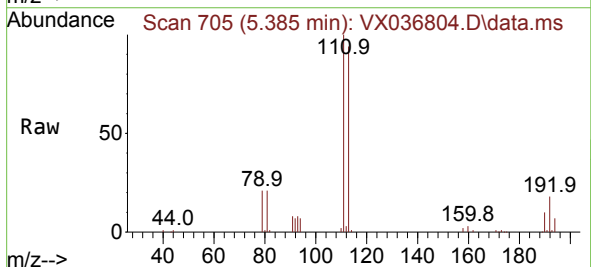
Instrument :
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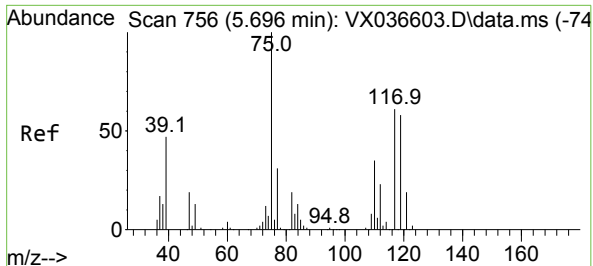
Tgt Ion:114 Resp: 248399
Ion Ratio Lower Upper
114 100
63 20.3 0.0 45.0
88 16.6 0.0 36.6



#35
Dibromofluoromethane
Concen: 46.912 ug/l
RT: 5.385 min Scan# 705
Delta R.T. -0.000 min
Lab File: VX036804.D
Acq: 04 Aug 2023 12:43

Tgt Ion:113 Resp: 80096
Ion Ratio Lower Upper
113 100
111 102.0 82.9 124.3
192 18.5 13.3 19.9

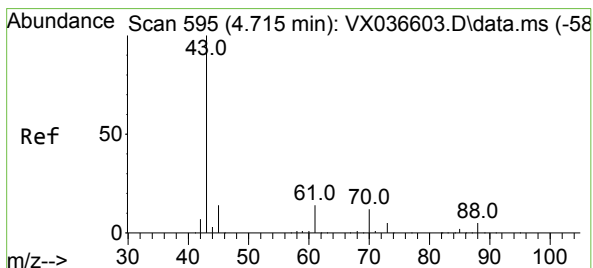
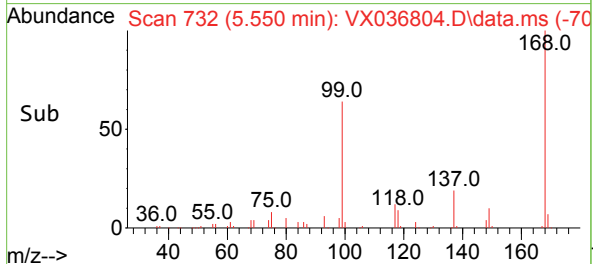
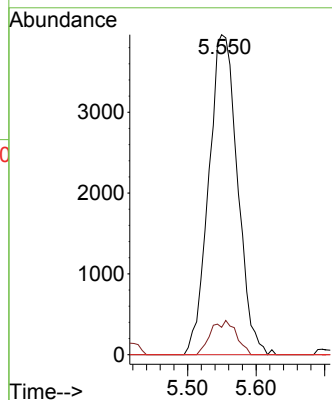
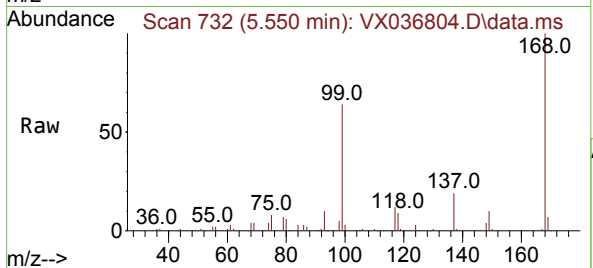




#36
1,1-Dichloropropene
Concen: 4.543 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.146 min
Lab File: VX036804.D
Acq: 04 Aug 2023 12:43

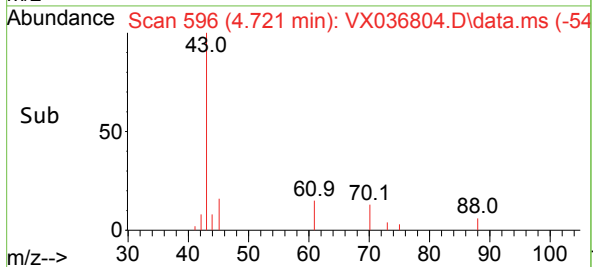
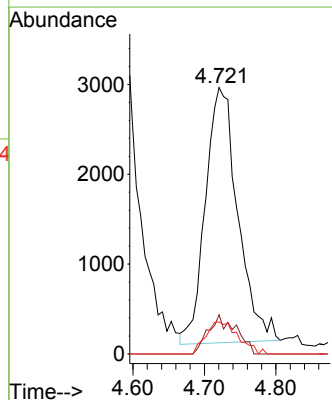
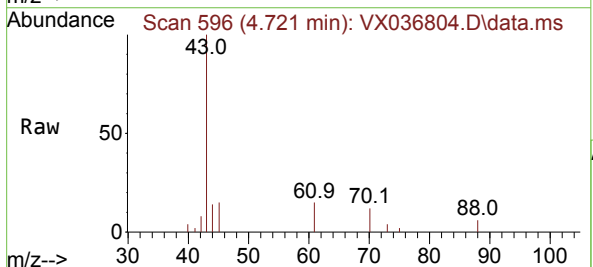
Instrument :
MSVOA_X
ClientSampleId :
ZHC#02

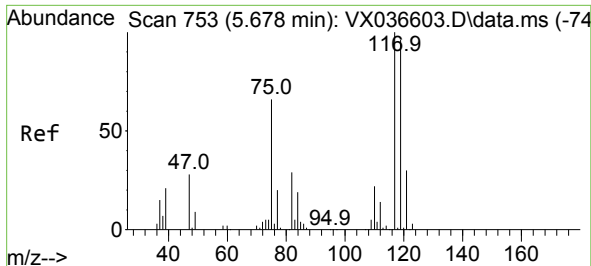
Tgt Ion: 75 Resp: 11562
Ion Ratio Lower Upper
75 100
110 9.5 17.0 50.9#
77 0.0 24.7 37.1#



#37
Ethyl Acetate
Concen: 3.110 ug/l
RT: 4.721 min Scan# 596
Delta R.T. 0.006 min
Lab File: VX036804.D
Acq: 04 Aug 2023 12:43

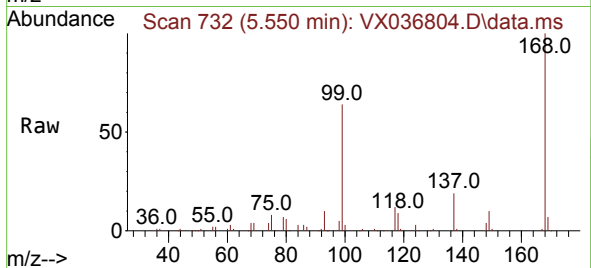
Tgt Ion: 43 Resp: 8959
Ion Ratio Lower Upper
43 100
61 13.0 10.6 16.0
70 12.6 8.3 12.5#



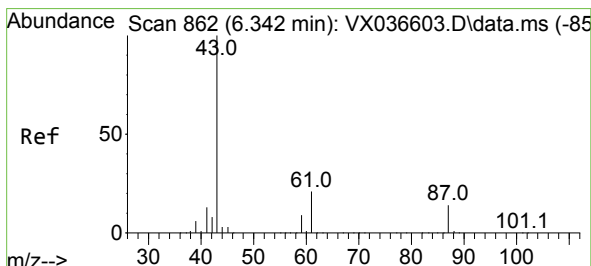
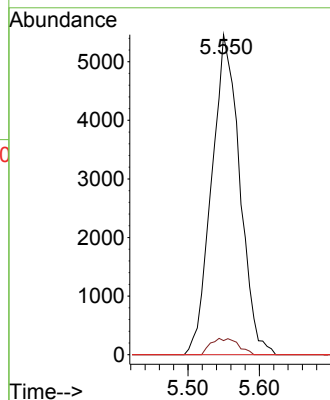
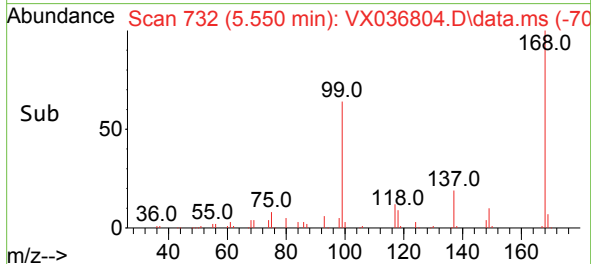


#38
Carbon Tetrachloride
Concen: 5.511 ug/l
RT: 5.550 min Scan# 711
Delta R.T. -0.128 min
Lab File: VX036804.D
Acq: 04 Aug 2023 12:43

Instrument :
MSVOA_X
ClientSampleId :
ZHC#02

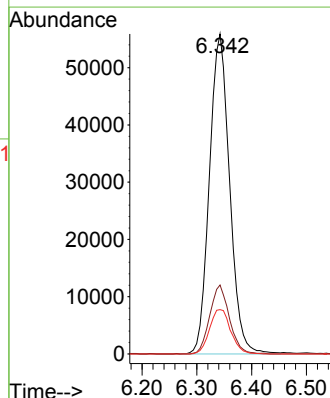
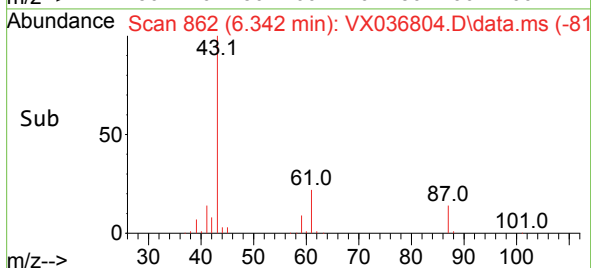
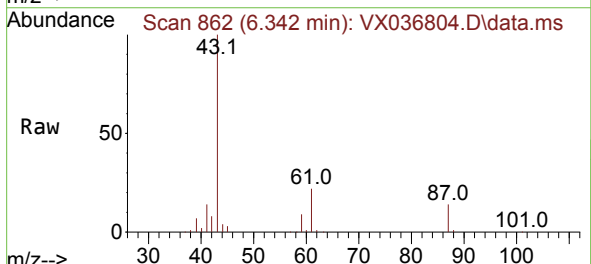


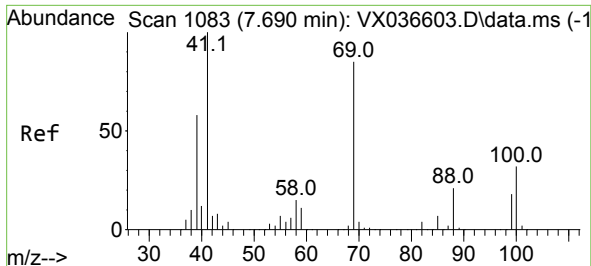
Tgt Ion:117 Resp: 14910
Ion Ratio Lower Upper
117 100
119 4.4 78.2 117.2#
121 0.0 24.4 36.6#



#43
Isopropyl Acetate
Concen: 28.844 ug/l
RT: 6.342 min Scan# 862
Delta R.T. -0.000 min
Lab File: VX036804.D
Acq: 04 Aug 2023 12:43

Tgt Ion: 43 Resp: 143011
Ion Ratio Lower Upper
43 100
61 20.9 15.2 22.8
87 14.5 9.8 14.6





#48

Methyl methacrylate

Concen: 49.202 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.110 min

Lab File: VX036804.D

Acq: 04 Aug 2023 12:43

Instrument :

MSVOA_X

ClientSampleId :

ZHC#02

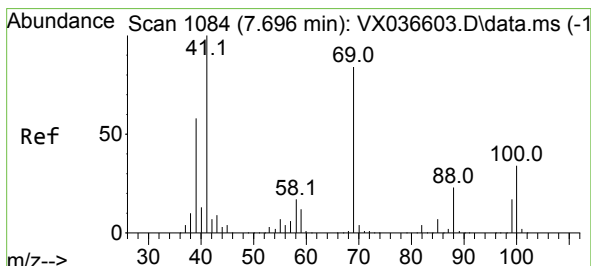
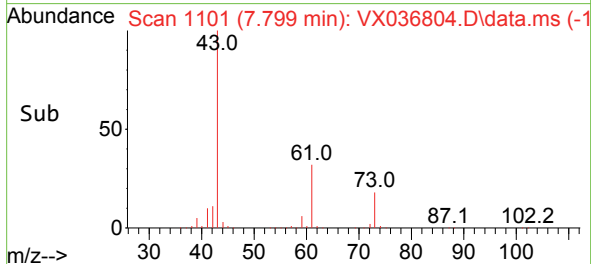
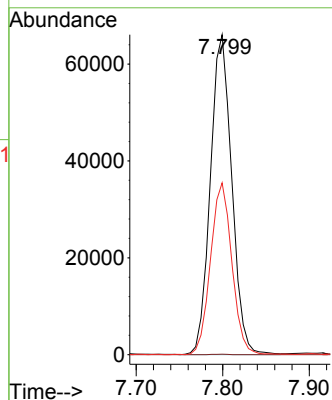
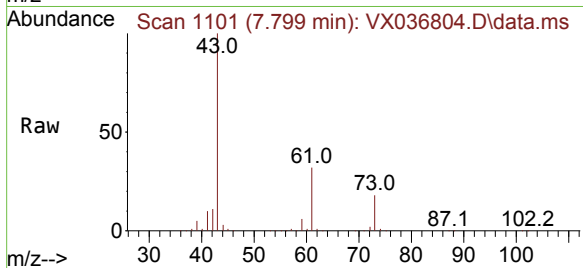
Tgt Ion: 41 Resp: 113450

Ion Ratio Lower Upper

41 100

69 0.1 59.2 88.8#

39 53.8 47.7 71.5



#49

1,4-Dioxane

Concen: 4.401 ug/l

RT: 7.793 min Scan# 1100

Delta R.T. 0.097 min

Lab File: VX036804.D

Acq: 04 Aug 2023 12:43

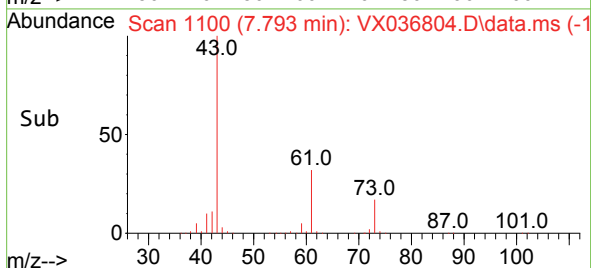
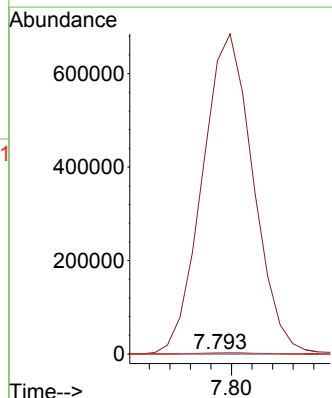
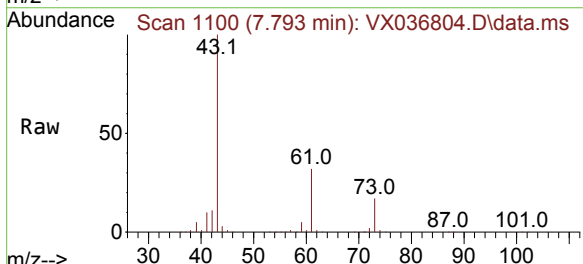
Tgt Ion: 88 Resp: 205

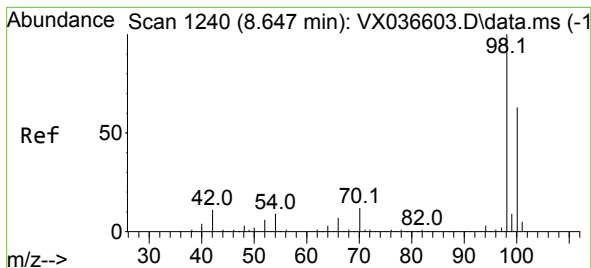
Ion Ratio Lower Upper

88 100

43 578424.4 0.0 0.0#

58 2289.3 60.1 90.1#





#50

Toluene-d8

Concen: 48.993 ug/l

RT: 8.647 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX036804.D

Acq: 04 Aug 2023 12:43

Instrument :

MSVOA_X

ClientSampleId :

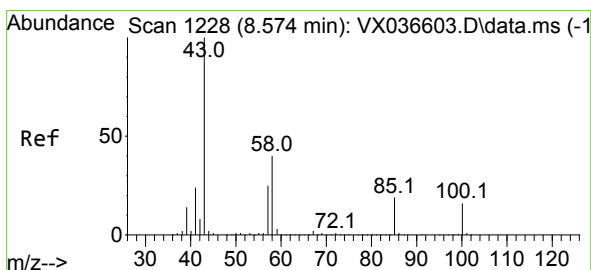
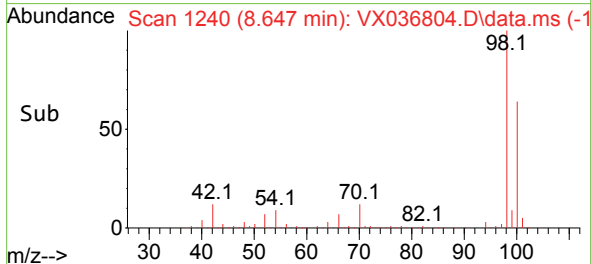
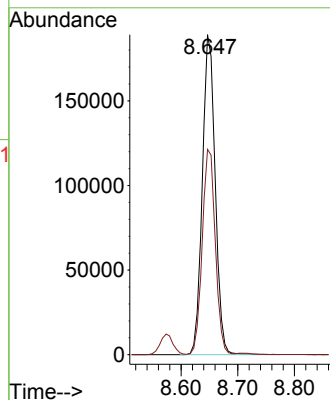
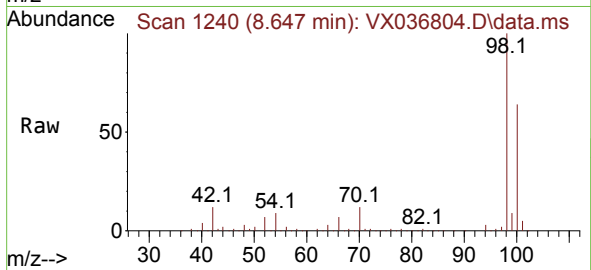
ZHC#02

Tgt Ion: 98 Resp: 296638

Ion Ratio Lower Upper

98 100

100 65.0 53.1 79.7



#51

4-Methyl-2-Pentanone

Concen: 42.619 ug/l

RT: 8.549 min Scan# 1224

Delta R.T. -0.024 min

Lab File: VX036804.D

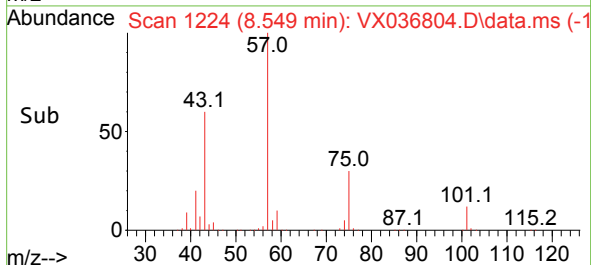
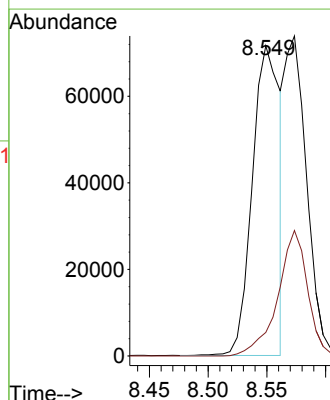
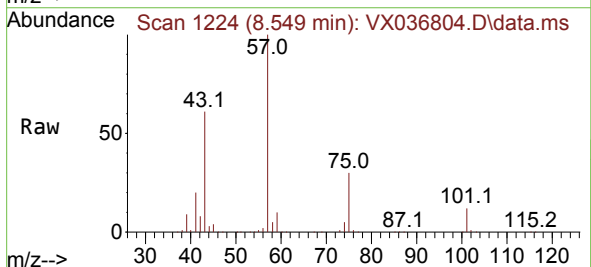
Acq: 04 Aug 2023 12:43

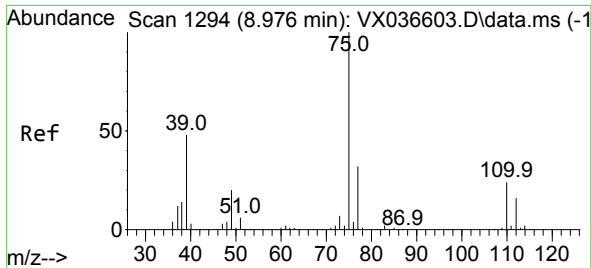
Tgt Ion: 43 Resp: 116938

Ion Ratio Lower Upper

43 100

58 0.0 30.4 45.6#

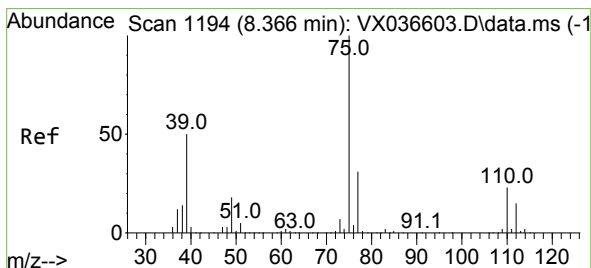
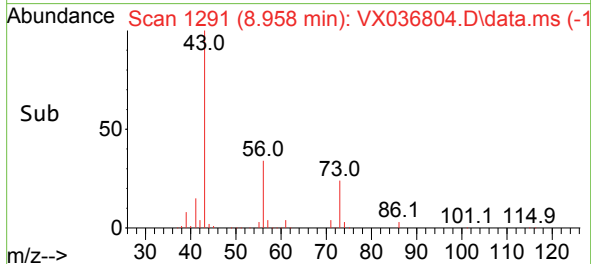
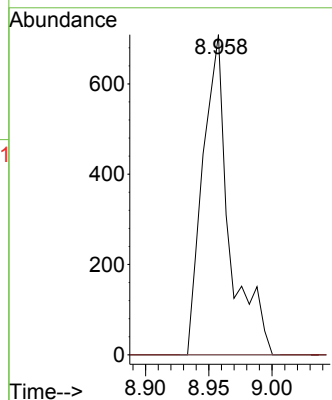
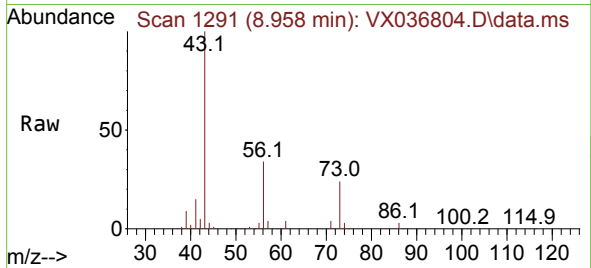




#53
 t-1,3-Dichloropropene
 Concen: 0.325 ug/l
 RT: 8.958 min Scan# 11
 Delta R.T. -0.018 min
 Lab File: VX036804.D
 Acq: 04 Aug 2023 12:43

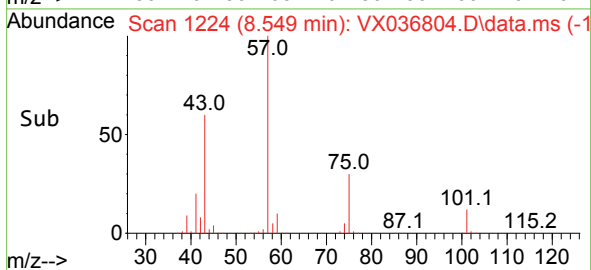
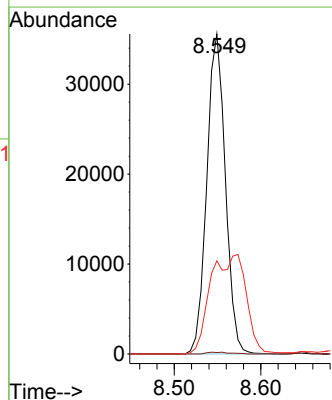
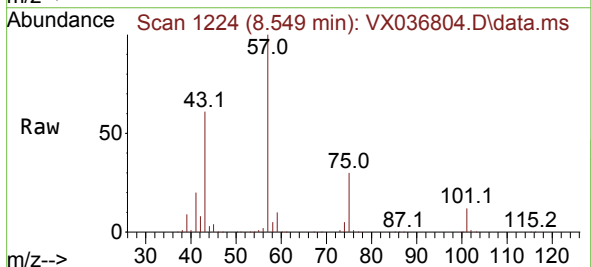
Instrument :
 MSVOA_X
 ClientSampleId :
 ZHC#02

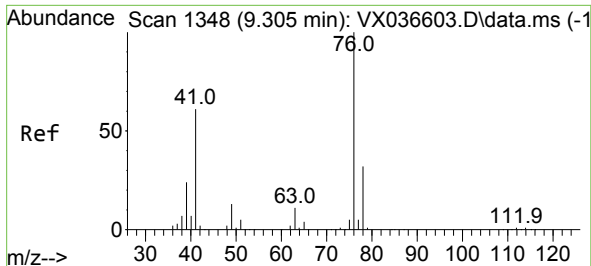
Tgt Ion: 75 Resp: 1042
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.7 38.5#



#54
 cis-1,3-Dichloropropene
 Concen: 15.647 ug/l
 RT: 8.549 min Scan# 1224
 Delta R.T. 0.183 min
 Lab File: VX036804.D
 Acq: 04 Aug 2023 12:43

Tgt Ion: 75 Resp: 52995
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.3 37.9#
 39 29.1 46.7 70.1#





#57

1,3-Dichloropropane

Concen: 1.983 ug/l

RT: 9.482 min Scan# 11

Delta R.T. 0.177 min

Lab File: VX036804.D

Acq: 04 Aug 2023 12:43

Instrument :

MSVOA_X

ClientSampleId :

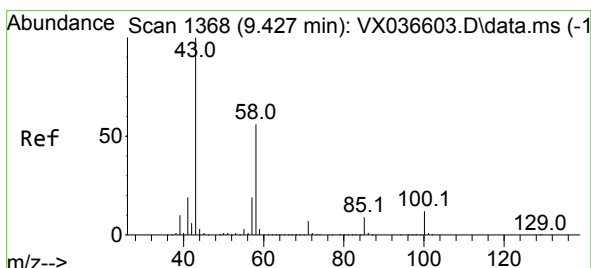
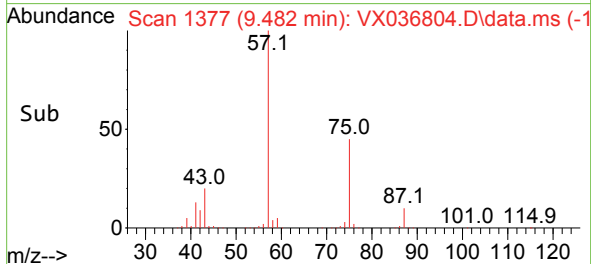
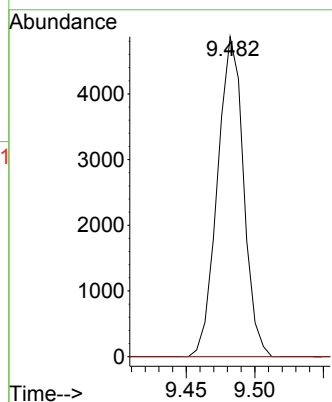
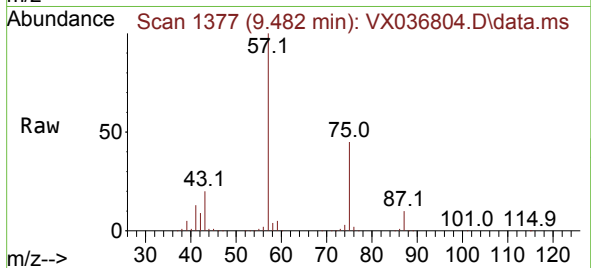
ZHC#02

Tgt Ion: 76 Resp: 6441

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 61.365 ug/l

RT: 9.378 min Scan# 1360

Delta R.T. -0.049 min

Lab File: VX036804.D

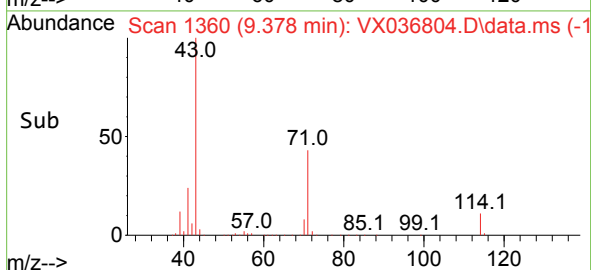
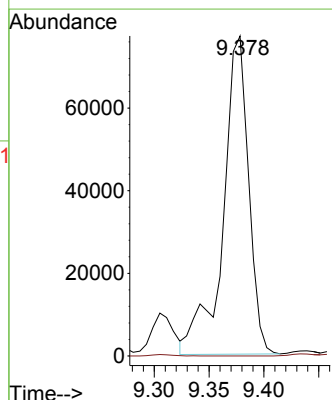
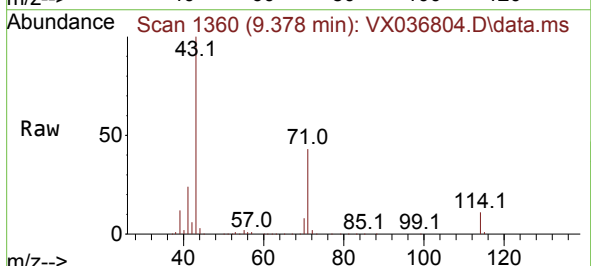
Acq: 04 Aug 2023 12:43

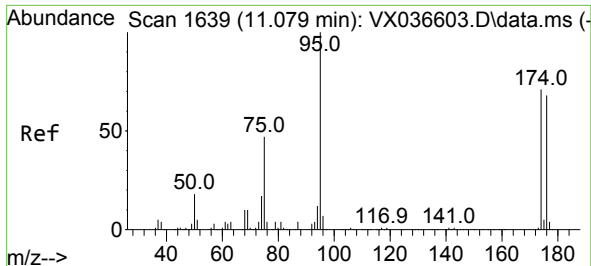
Tgt Ion: 43 Resp: 124960

Ion Ratio Lower Upper

43 100

58 0.0 26.2 78.5#

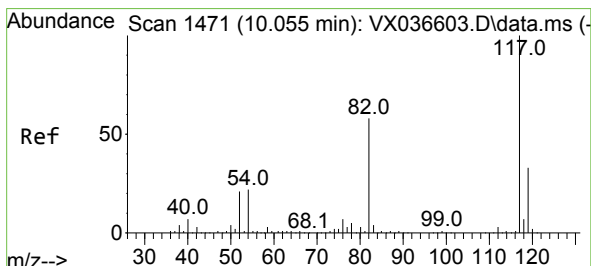
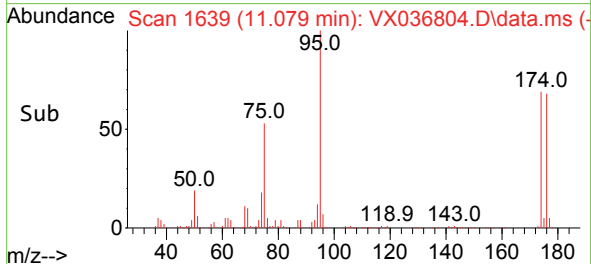
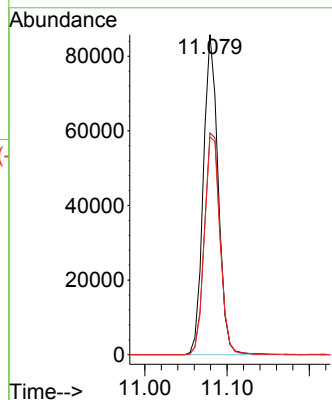
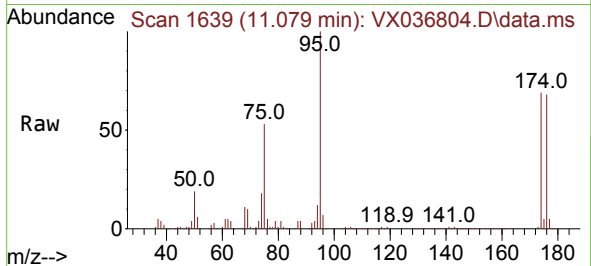




#62
4-Bromofluorobenzene
Concen: 47.140 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX036804.D
Acq: 04 Aug 2023 12:43

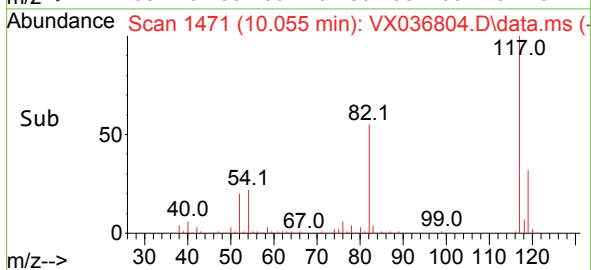
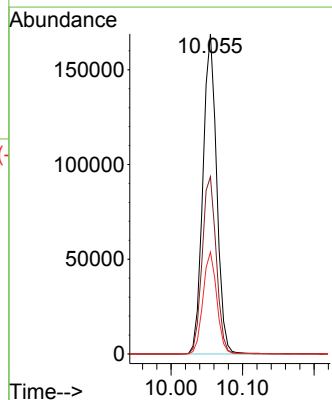
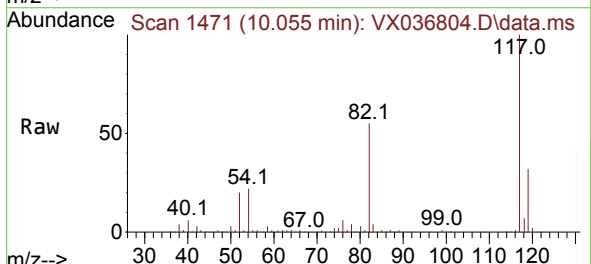
Instrument :
MSVOA_X
ClientSampleId :
ZHC#02

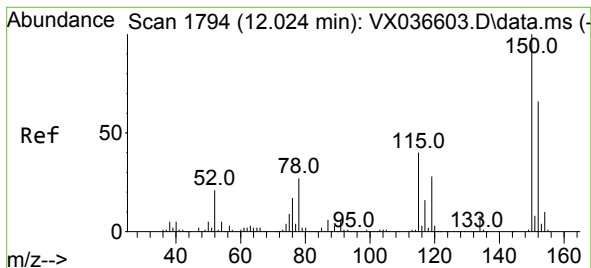
Tgt Ion: 95 Resp: 107684
Ion Ratio Lower Upper
95 100
174 73.5 0.0 135.6
176 71.8 0.0 131.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX036804.D
Acq: 04 Aug 2023 12:43

Tgt Ion: 117 Resp: 225772
Ion Ratio Lower Upper
117 100
82 55.4 46.2 69.4
119 31.9 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX036804.D

Acq: 04 Aug 2023 12:43

Instrument :

MSVOA_X

ClientSampleId :

ZHC#02

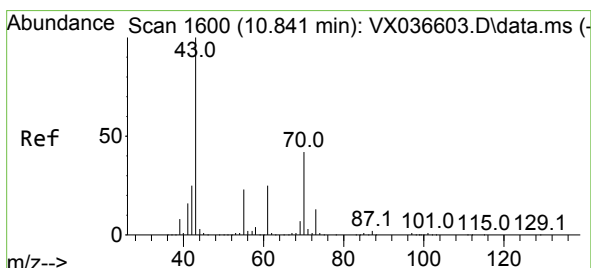
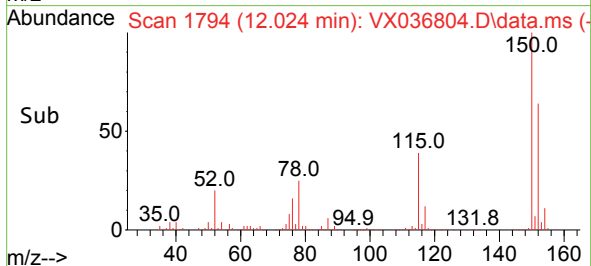
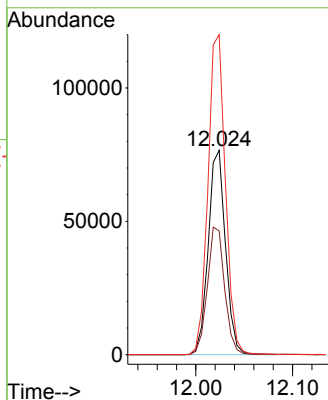
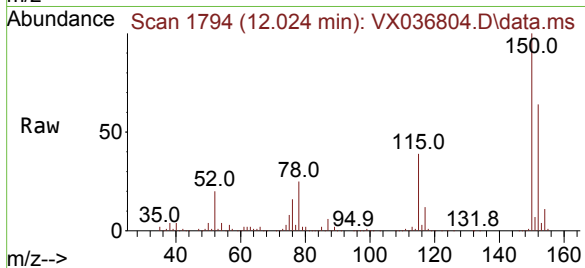
Tgt Ion:152 Resp: 95473

Ion Ratio Lower Upper

152 100

115 62.6 43.3 129.9

150 158.3 0.0 345.0



#74

N-ethyl acetate

Concen: 0.272 ug/l

RT: 10.817 min Scan# 1596

Delta R.T. -0.024 min

Lab File: VX036804.D

Acq: 04 Aug 2023 12:43

Tgt Ion: 43 Resp: 1002

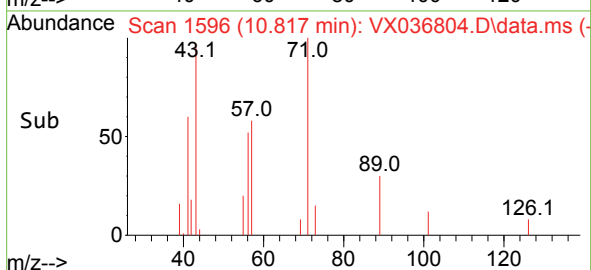
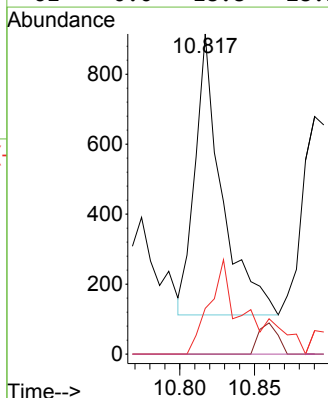
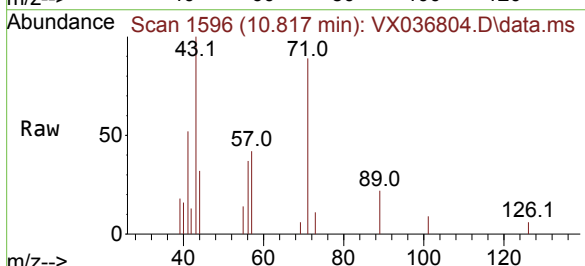
Ion Ratio Lower Upper

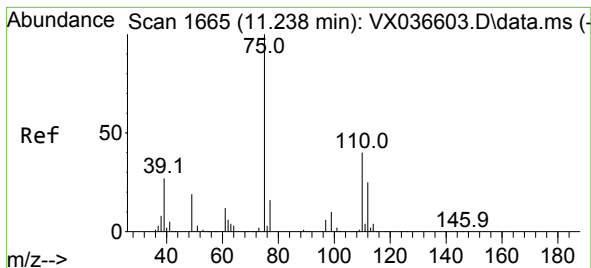
43 100

70 0.0 32.9 49.3#

55 47.6 19.3 28.9#

61 0.0 18.8 28.2#





#76

1,2,3-Trichloropropane

Concen: 25.042 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.159 min

Lab File: VX036804.D

Acq: 04 Aug 2023 12:43

Instrument :

MSVOA_X

ClientSampleId :

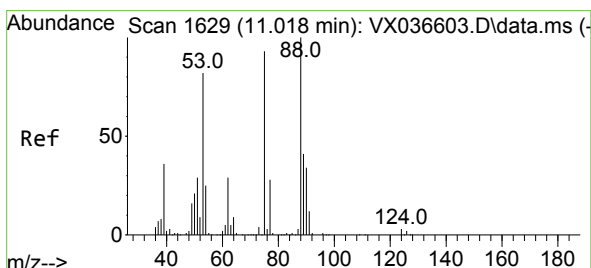
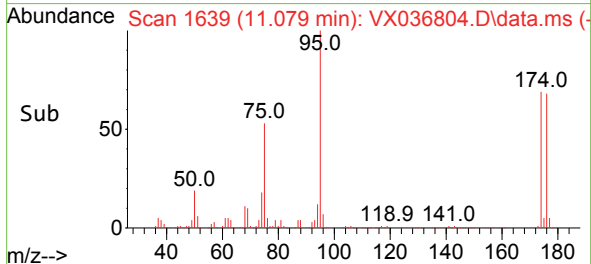
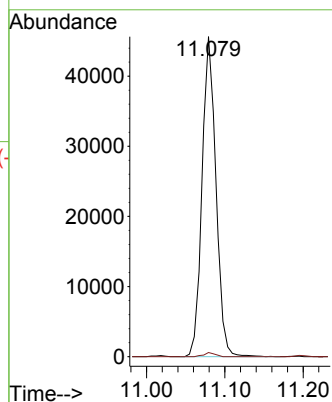
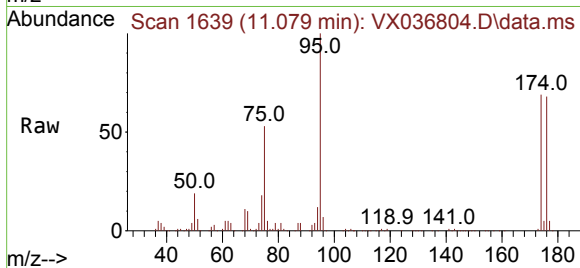
ZHC#02

Tgt Ion: 75 Resp: 56234

Ion Ratio Lower Upper

75 100

77 1.1 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 56.758 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX036804.D

Acq: 04 Aug 2023 12:43

Tgt Ion: 75 Resp: 56234

Ion Ratio Lower Upper

75 100

53 0.0 90.5 135.7#

89 0.0 36.9 55.3#

