

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102423\
 Data File : VN079662.D
 Acq On : 24 Oct 2023 17:14
 Operator : JC\MD
 Sample : 05029-06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 25 02:00:33 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N100523W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 06 03:34:49 2023
 Response via : Initial Calibration

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

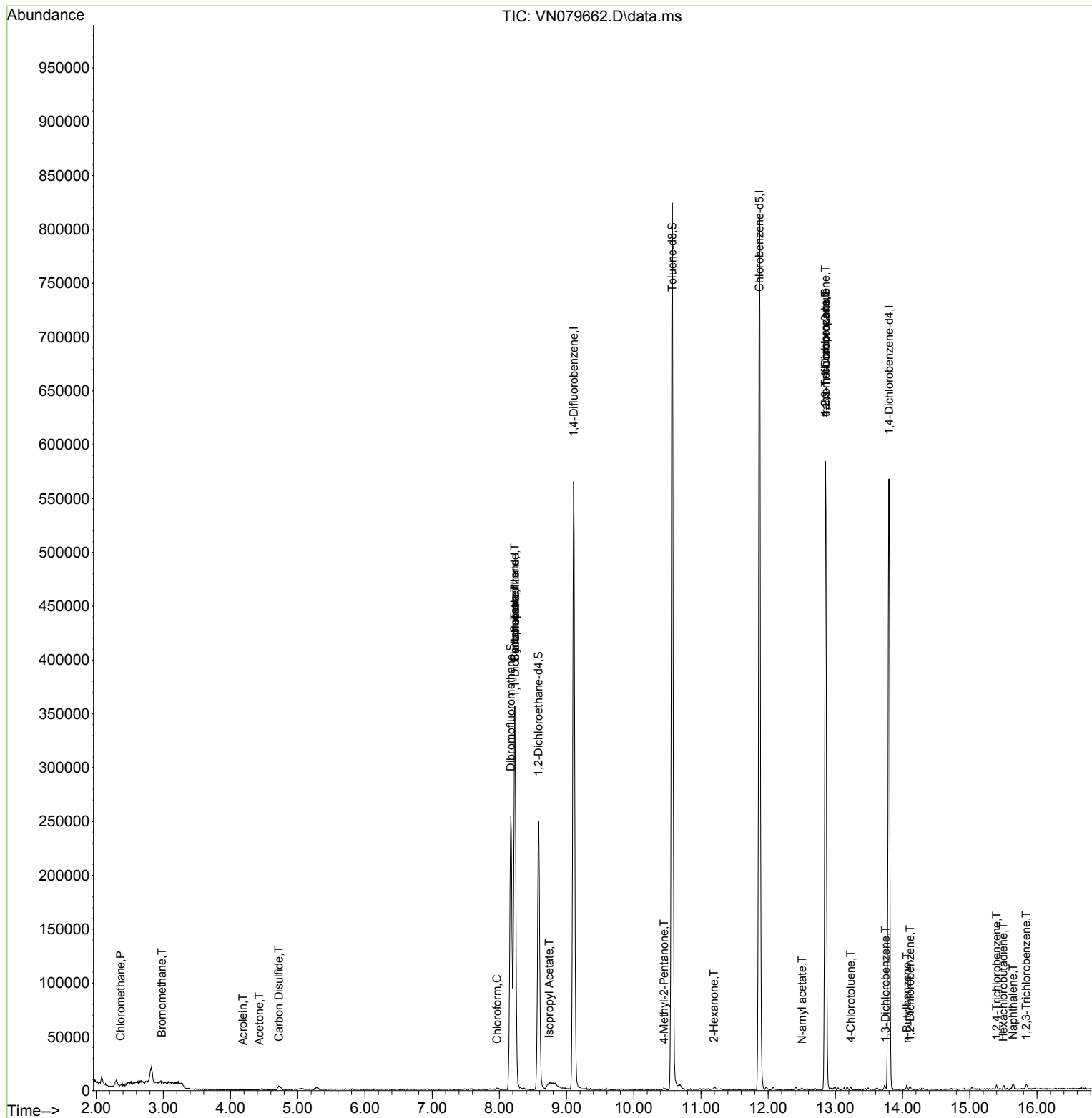
Internal Standards						
1) Pentafluorobenzene	8.230	168	244177	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	470040	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	467991	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	150719	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	201179	50.814	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 101.620%	
35) Dibromofluoromethane	8.171	113	180752	53.511	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 107.020%	
50) Toluene-d8	10.571	98	559968	45.816	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 91.640%	
62) 4-Bromofluorobenzene	12.853	95	194593	49.612	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 99.220%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	1063	0.243	ug/l #	42
5) Bromomethane	2.977	94	1200	0.441	ug/l	100
13) Acrolein	4.183	56	192	0.324	ug/l #	16
16) Acetone	4.430	43	391	0.249	ug/l #	40
17) Carbon Disulfide	4.718	76	2702	0.300	ug/l #	75
20) Methylene Chloride	5.277	84	1609	Below Cal	#	84
30) Chloroform	7.965	83	1595	0.247	ug/l #	57
31) Cyclohexane	8.230	56	6766	1.205	ug/l #	27
36) 1,1-Dichloropropene	8.235	75	22625	4.463	ug/l #	47
38) Carbon Tetrachloride	8.230	117	25573	5.039	ug/l #	16
43) Isopropyl Acetate	8.741	43	5531	0.626	ug/l #	49
51) 4-Methyl-2-Pentanone	10.453	43	1214	0.243	ug/l	91
59) 2-Hexanone	11.194	43	2512	0.698	ug/l #	58
74) N-amyl acetate	12.506	43	1251	0.218	ug/l #	60
75) 1,1,2,2-Tetrachloroethane	12.947	83	857	Below Cal	#	63
76) 1,2,3-Trichloropropane	12.853	75	107633	24.768	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	107633	71.866	ug/l #	15
82) 4-Chlorotoluene	13.229	91	2023	0.209	ug/l	93
87) 1,3-Dichlorobenzene	13.747	146	1104	0.202	ug/l	92
89) n-Butylbenzene	14.064	91	1901	0.246	ug/l	90
91) 1,2-Dichlorobenzene	14.111	146	1696	0.319	ug/l	91
93) 1,2,4-Trichlorobenzene	15.400	180	1384	0.840	ug/l	90
94) Hexachlorobutadiene	15.500	225	807	0.629	ug/l	92
95) Naphthalene	15.647	128	5257	1.045	ug/l #	90
96) 1,2,3-Trichlorobenzene	15.841	180	1880	0.956	ug/l	92

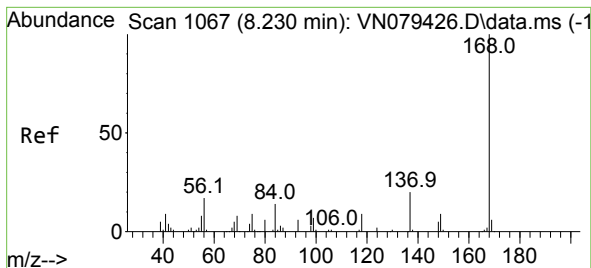
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Oct 06 03:34:49 2023
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN079662.D

Acq: 24 Oct 2023 17:14

Instrument :

MSVOA_N

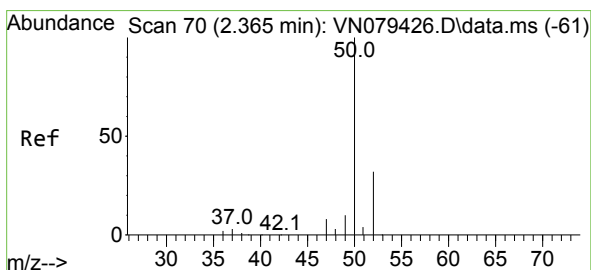
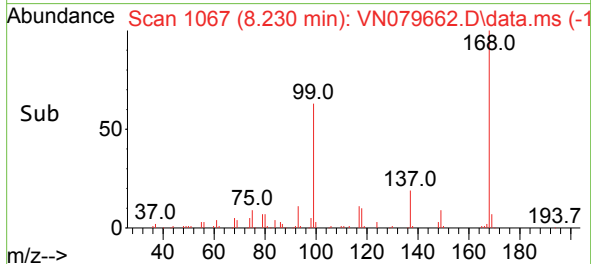
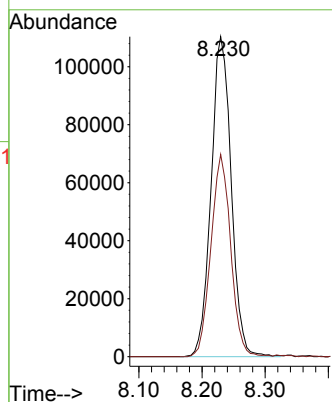
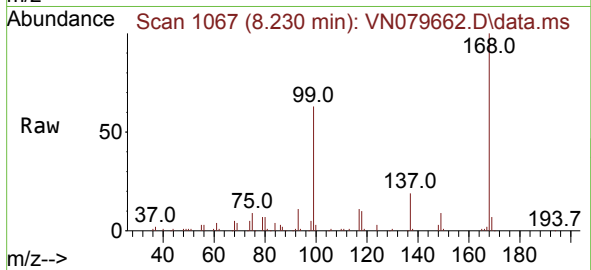
ClientSampleId :

Tgt Ion:168 Resp: 244177

Ion Ratio Lower Upper

168 100

99 63.2 53.0 79.6



#3

Chloromethane

Concen: 0.243 ug/l

RT: 2.365 min Scan# 70

Delta R.T. -0.000 min

Lab File: VN079662.D

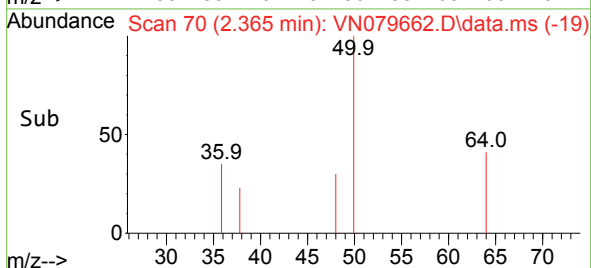
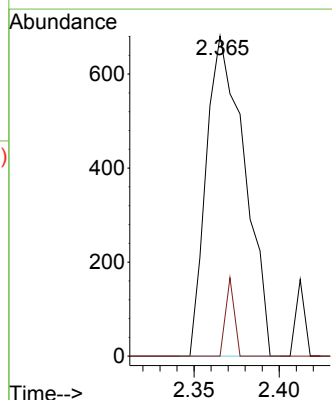
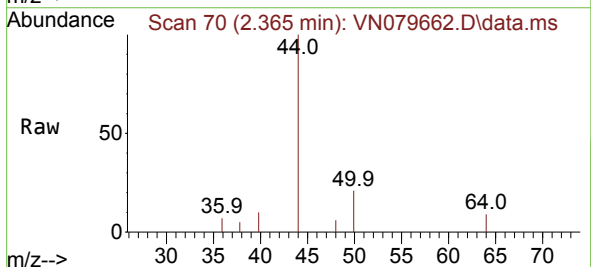
Acq: 24 Oct 2023 17:14

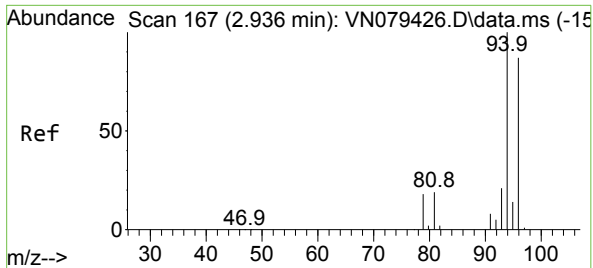
Tgt Ion: 50 Resp: 1063

Ion Ratio Lower Upper

50 100

52 0.0 26.5 39.7#





#5

Bromomethane

Concen: 0.441 ug/l

RT: 2.977 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN079662.D

Acq: 24 Oct 2023 17:14

Instrument :

MSVOA_N

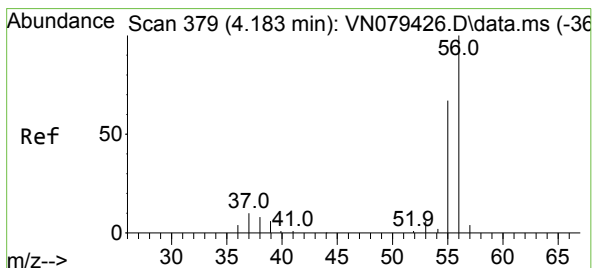
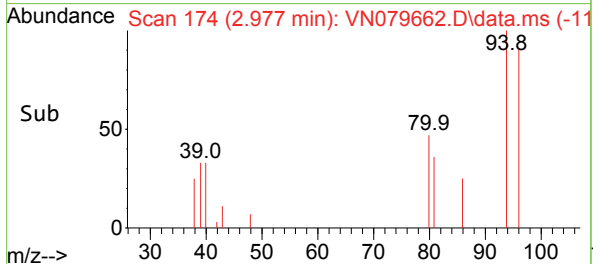
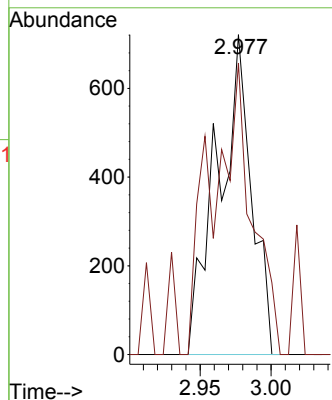
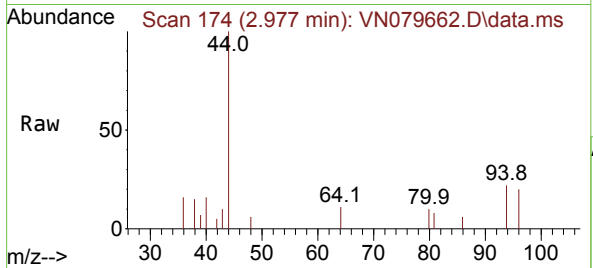
ClientSampleId :

Tgt Ion: 94 Resp: 1200

Ion Ratio Lower Upper

94 100

96 91.1 73.1 109.7



#13

Acrolein

Concen: 0.324 ug/l

RT: 4.183 min Scan# 379

Delta R.T. -0.000 min

Lab File: VN079662.D

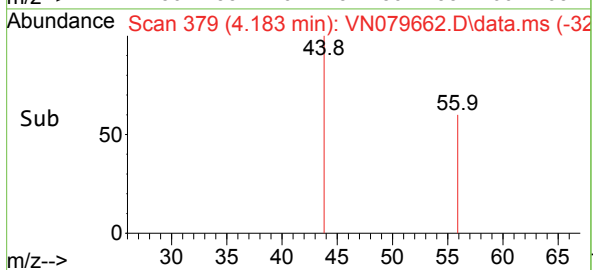
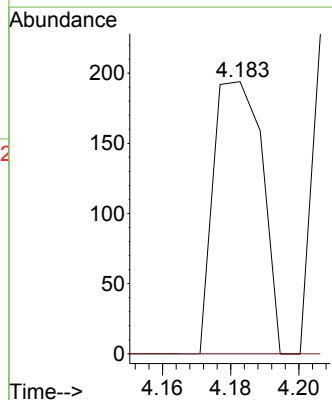
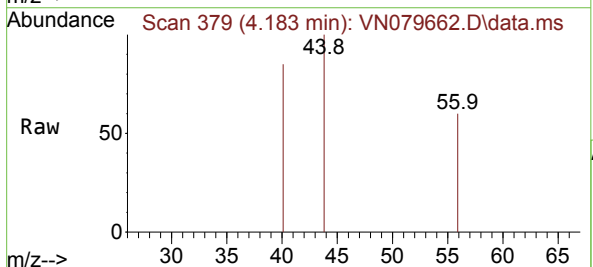
Acq: 24 Oct 2023 17:14

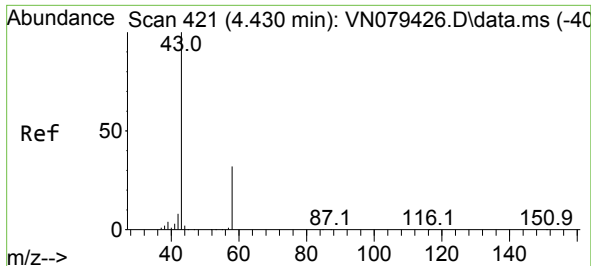
Tgt Ion: 56 Resp: 192

Ion Ratio Lower Upper

56 100

55 0.0 54.5 81.7#

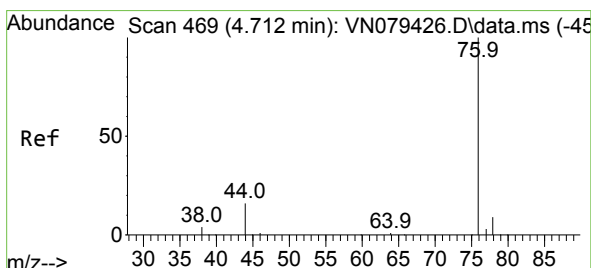
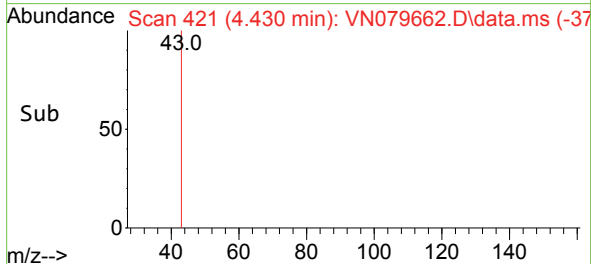
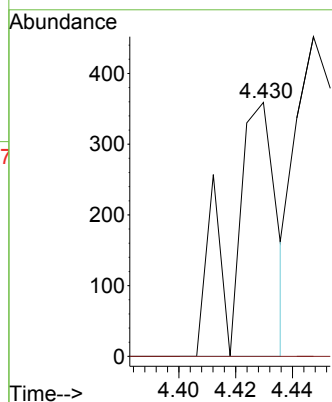
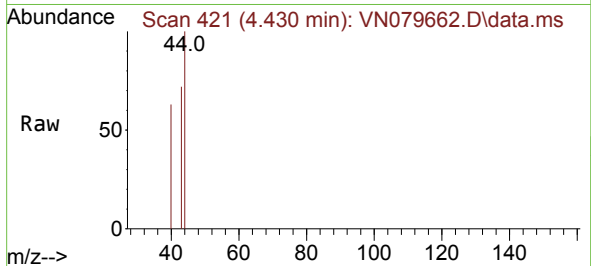




#16
Acetone
Concen: 0.249 ug/l
RT: 4.430 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN079662.D
Acq: 24 Oct 2023 17:14

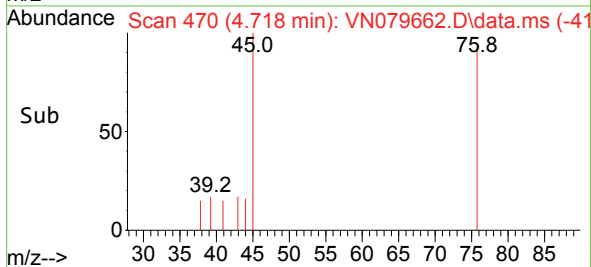
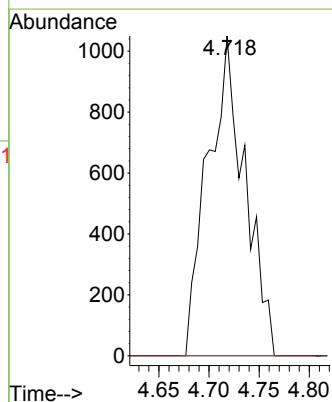
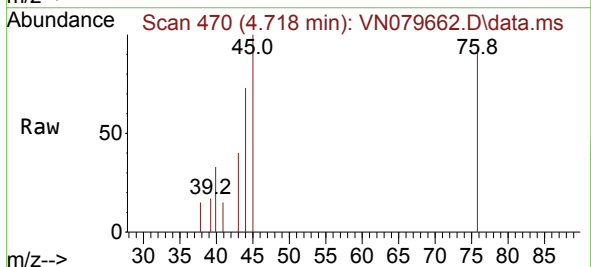
Instrument :
MSVOA_N
ClientSampleId :

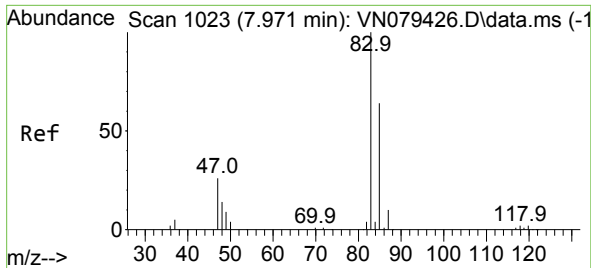
Tgt Ion: 43 Resp: 391
Ion Ratio Lower Upper
43 100
58 0.0 28.0 42.0#



#17
Carbon Disulfide
Concen: 0.300 ug/l
RT: 4.718 min Scan# 470
Delta R.T. 0.006 min
Lab File: VN079662.D
Acq: 24 Oct 2023 17:14

Tgt Ion: 76 Resp: 2702
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#

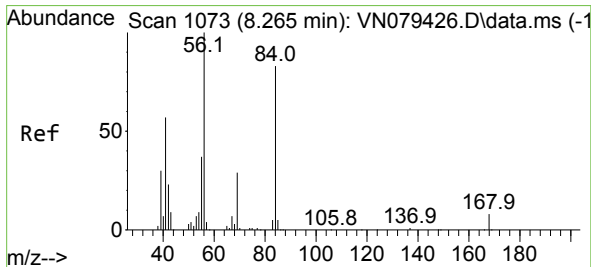
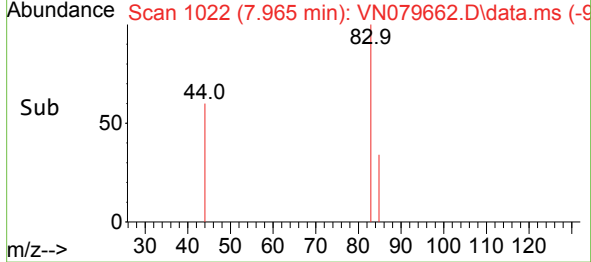
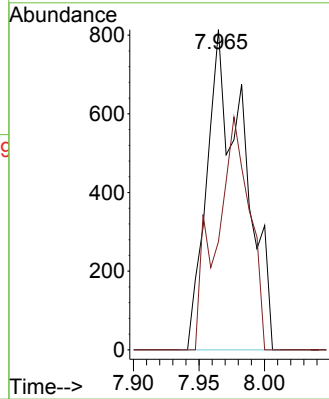
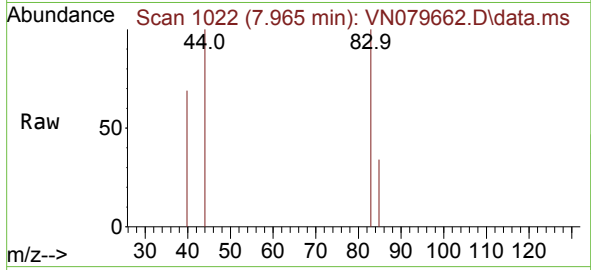




#30
Chloroform
Concen: 0.247 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. -0.006 min
Lab File: VN079662.D
Acq: 24 Oct 2023 17:14

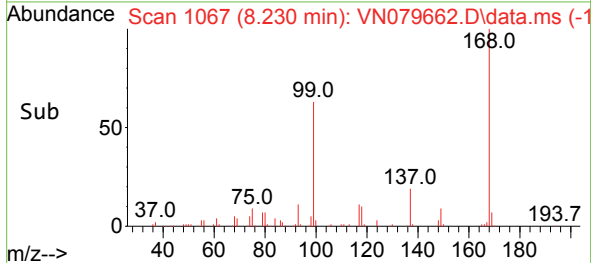
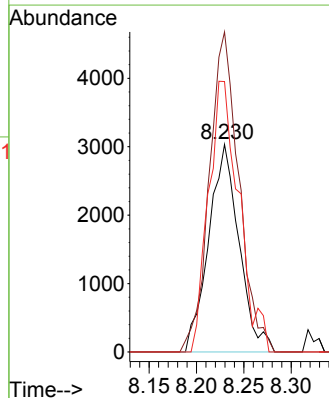
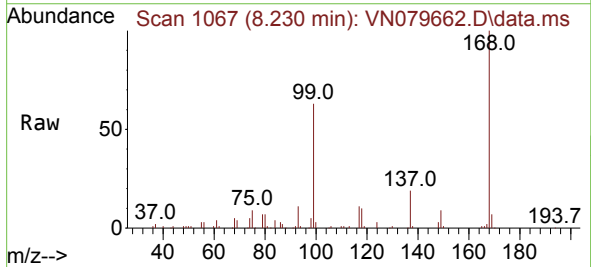
Instrument :
MSVOA_N
ClientSampleId :

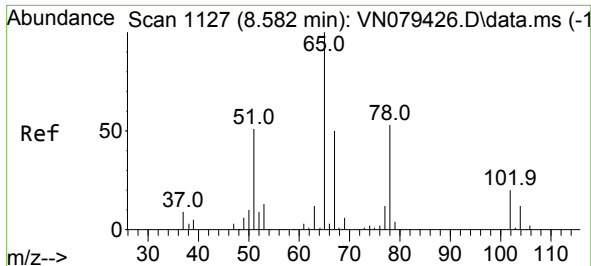
Tgt Ion: 83 Resp: 1595
Ion Ratio Lower Upper
83 100
85 33.8 55.4 83.0#



#31
Cyclohexane
Concen: 1.205 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN079662.D
Acq: 24 Oct 2023 17:14

Tgt Ion: 56 Resp: 6766
Ion Ratio Lower Upper
56 100
69 154.1 26.8 40.2#
84 130.2 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 50.814 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VN079662.D

Acq: 24 Oct 2023 17:14

Instrument :

MSVOA_N

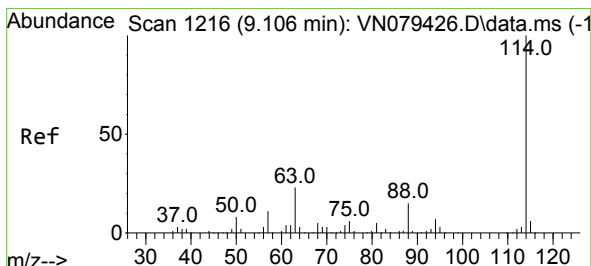
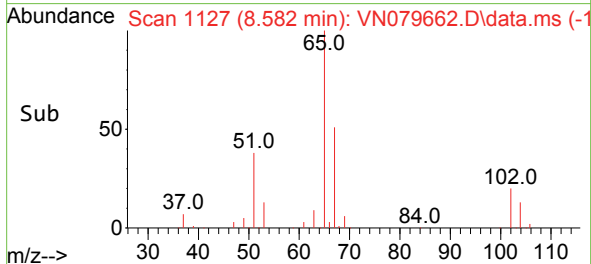
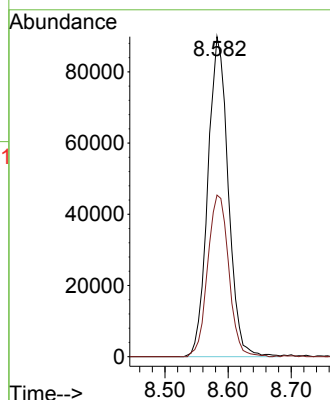
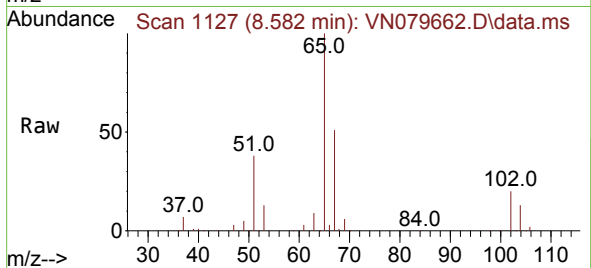
ClientSampleId :

Tgt Ion: 65 Resp: 201179

Ion Ratio Lower Upper

65 100

67 52.3 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN079662.D

Acq: 24 Oct 2023 17:14

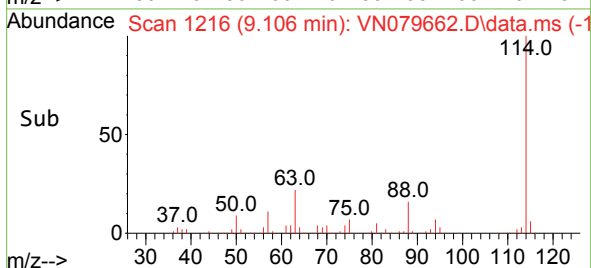
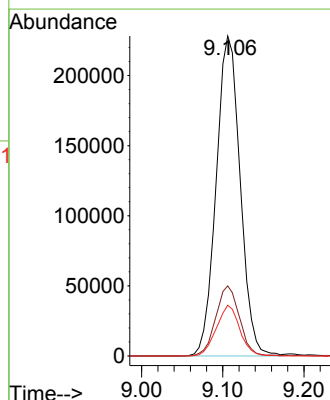
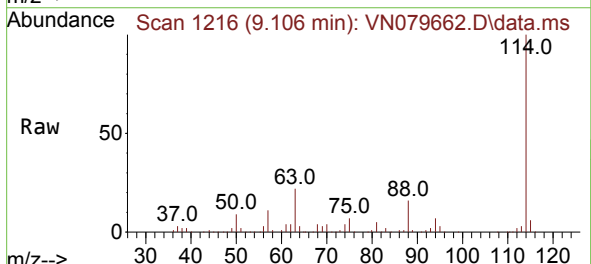
Tgt Ion: 114 Resp: 470040

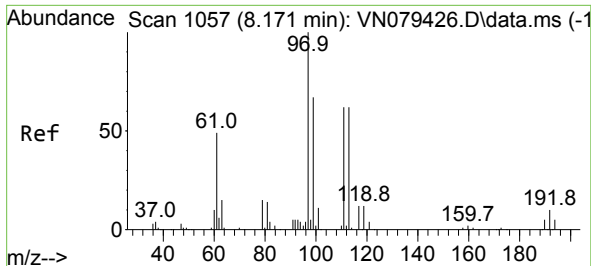
Ion Ratio Lower Upper

114 100

63 21.9 0.0 36.4

88 15.9 0.0 30.6





#35

Dibromofluoromethane

Concen: 53.511 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

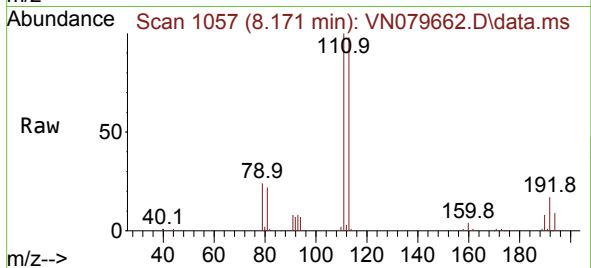
Lab File: VN079662.D

Acq: 24 Oct 2023 17:14

Instrument :

MSVOA_N

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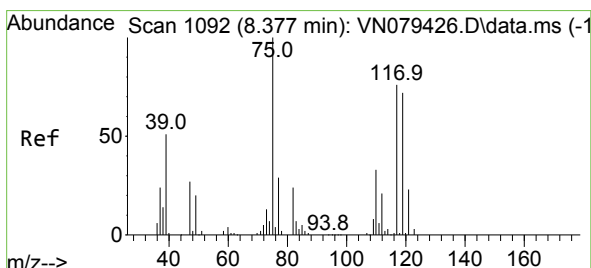
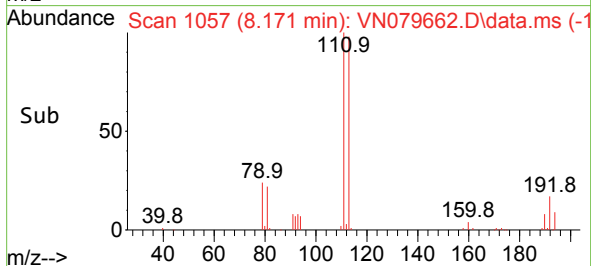
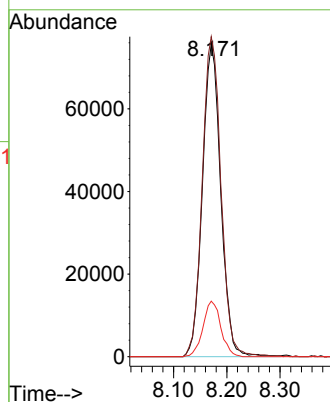
Tgt Ion:113 Resp: 180752

Ion Ratio Lower Upper

113 100

111 104.3 82.6 123.8

192 17.4 12.7 19.1



#36

1,1-Dichloropropene

Concen: 4.463 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.141 min

Lab File: VN079662.D

Acq: 24 Oct 2023 17:14

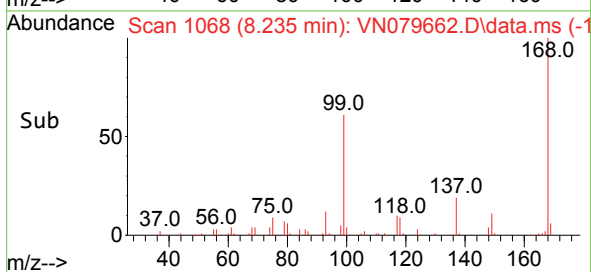
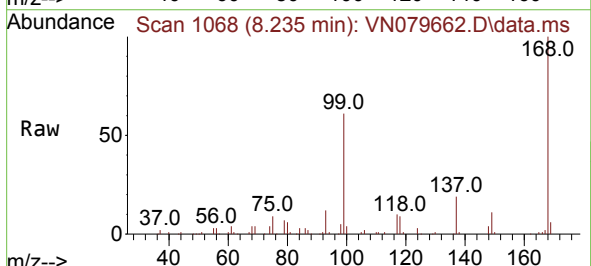
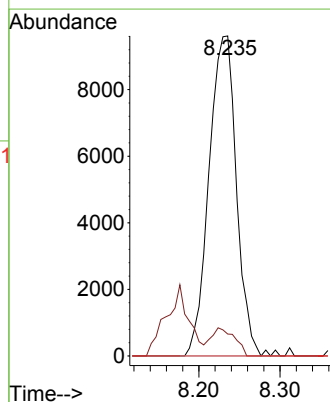
Tgt Ion: 75 Resp: 22625

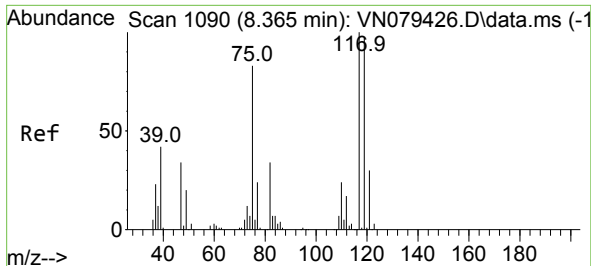
Ion Ratio Lower Upper

75 100

110 7.5 19.1 57.3#

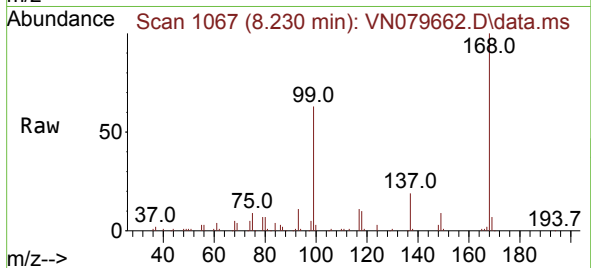
77 0.0 25.0 37.4#



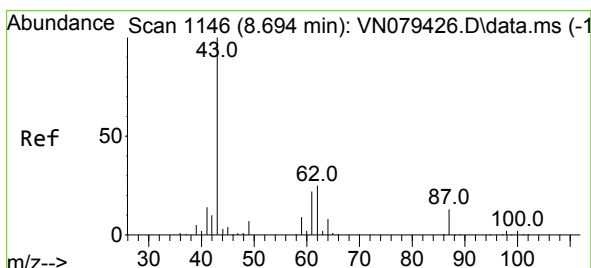
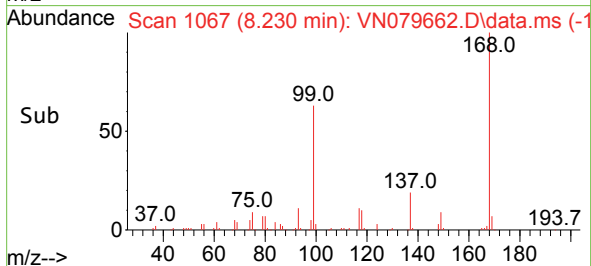
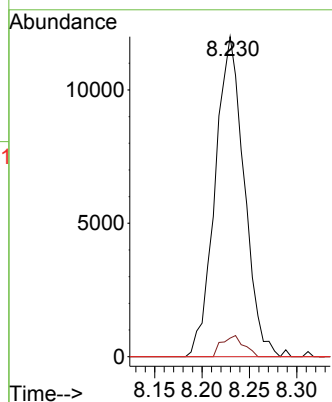


#38
Carbon Tetrachloride
Concen: 5.039 ug/l
RT: 8.230 min Scan# 1154
Delta R.T. -0.135 min
Lab File: VN079662.D
Acq: 24 Oct 2023 17:14

Instrument :
MSVOA_N
ClientSampleId :

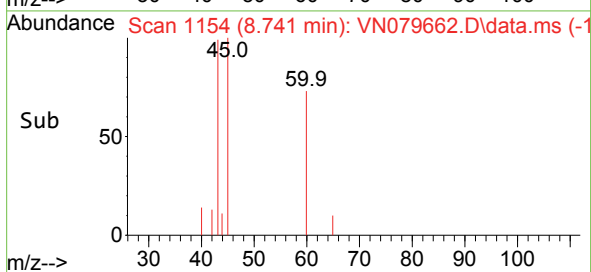
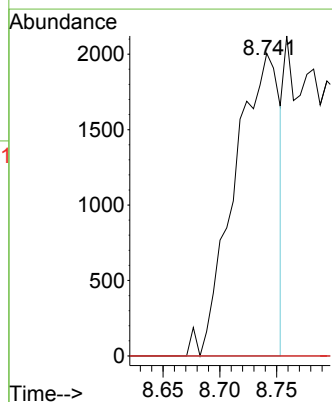
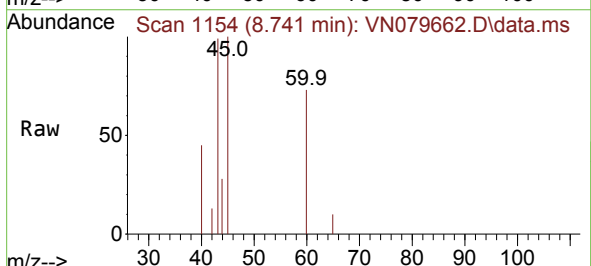


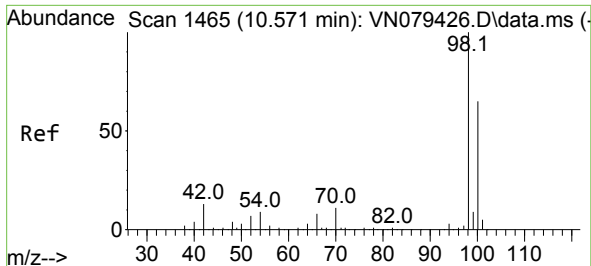
Tgt Ion:117 Resp: 25573
Ion Ratio Lower Upper
117 100
119 5.8 77.3 115.9#
121 0.0 23.3 34.9#



#43
Isopropyl Acetate
Concen: 0.626 ug/l
RT: 8.741 min Scan# 1154
Delta R.T. 0.047 min
Lab File: VN079662.D
Acq: 24 Oct 2023 17:14

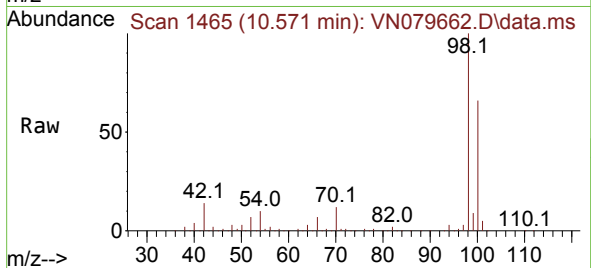
Tgt Ion: 43 Resp: 5531
Ion Ratio Lower Upper
43 100
61 0.0 24.7 37.1#
87 0.0 14.6 21.8#



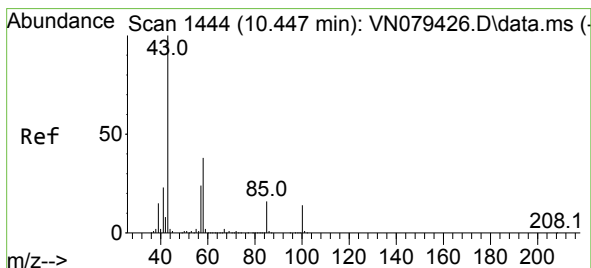
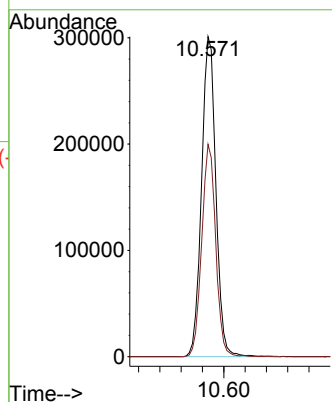
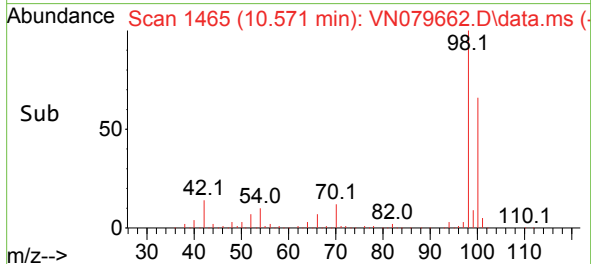


#50
Toluene-d8
Concen: 45.816 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN079662.D
Acq: 24 Oct 2023 17:14

Instrument :
MSVOA_N
ClientSampleId :

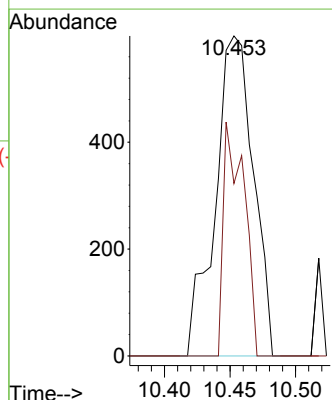
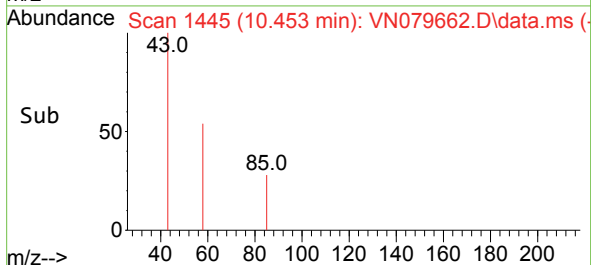
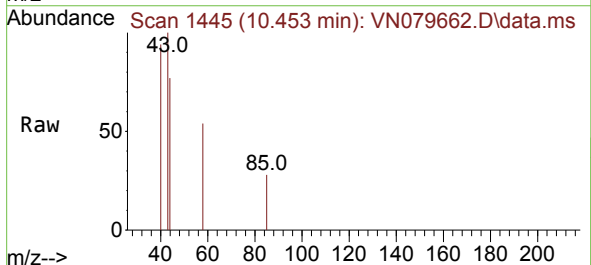


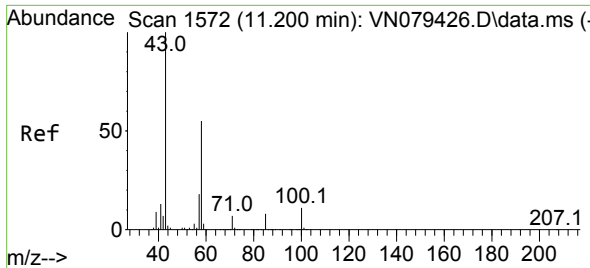
Tgt Ion: 98 Resp: 559968
Ion Ratio Lower Upper
98 100
100 64.9 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 0.243 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN079662.D
Acq: 24 Oct 2023 17:14

Tgt Ion: 43 Resp: 1214
Ion Ratio Lower Upper
43 100
58 39.6 36.6 54.8

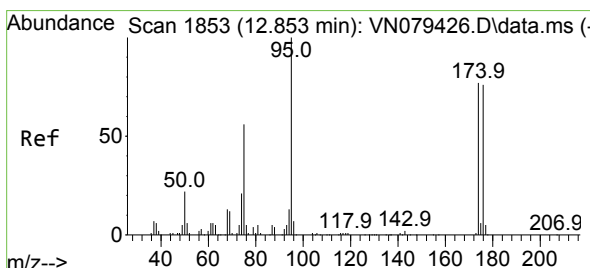
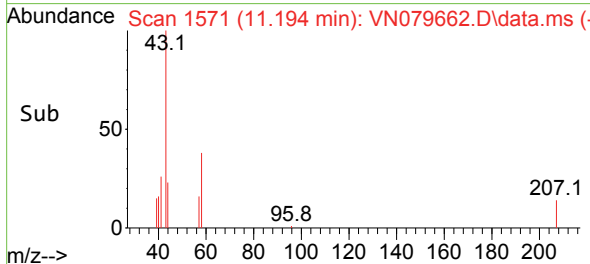
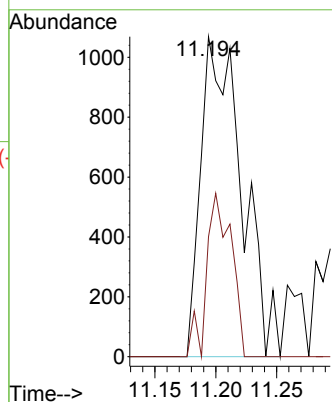
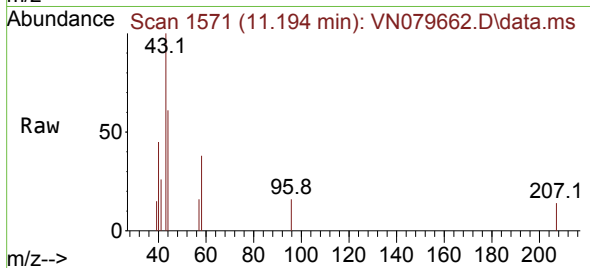




#59
2-Hexanone
Concen: 0.698 ug/l
RT: 11.194 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN079662.D
Acq: 24 Oct 2023 17:14

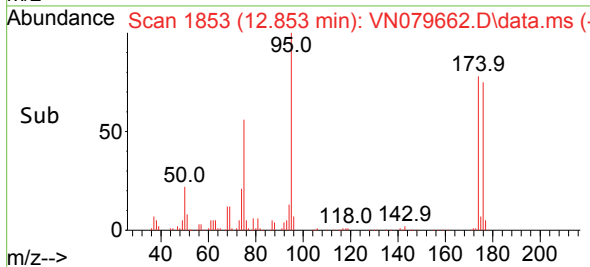
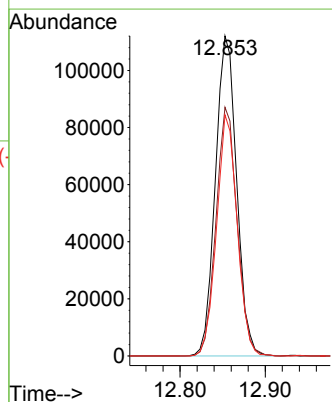
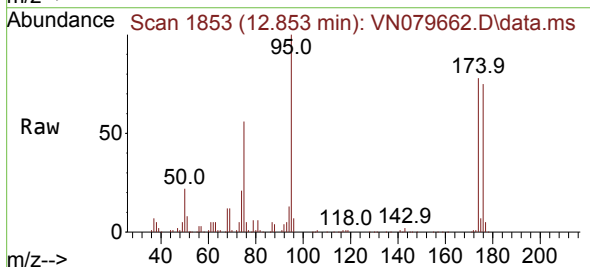
Instrument :
MSVOA_N
ClientSampleId :

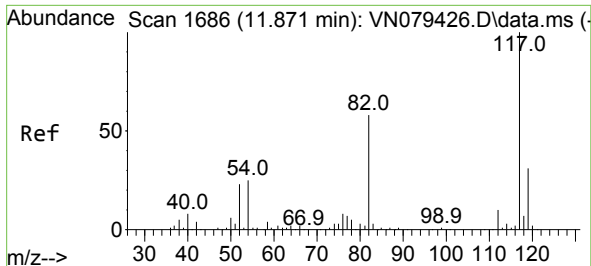
Tgt Ion: 43 Resp: 2512
Ion Ratio Lower Upper
43 100
58 30.8 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 49.612 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN079662.D
Acq: 24 Oct 2023 17:14

Tgt Ion: 95 Resp: 194593
Ion Ratio Lower Upper
95 100
174 77.1 0.0 143.8
176 73.0 0.0 135.8

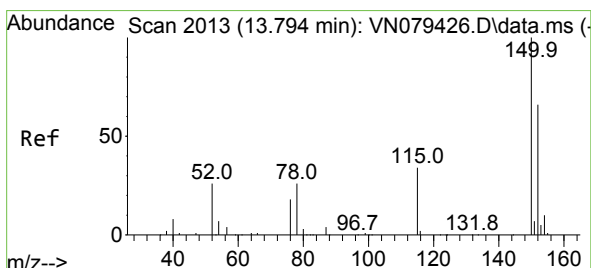
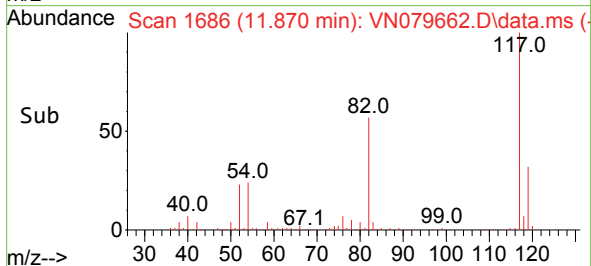
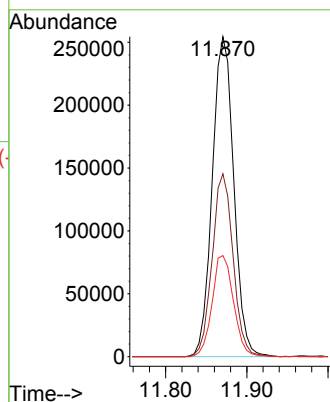
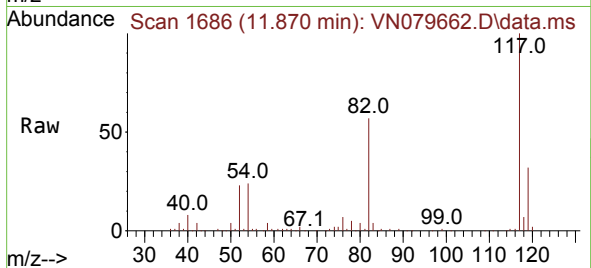




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN079662.D
Acq: 24 Oct 2023 17:14

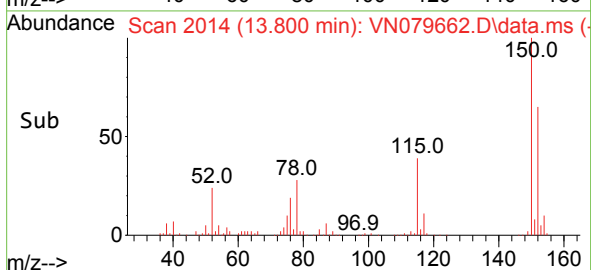
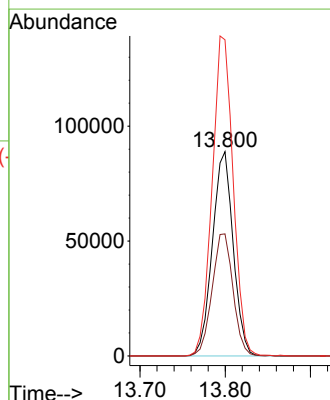
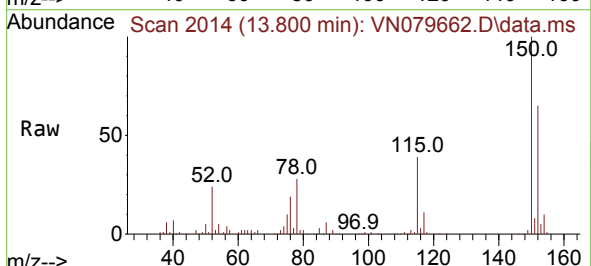
Instrument :
MSVOA_N
ClientSampleId :

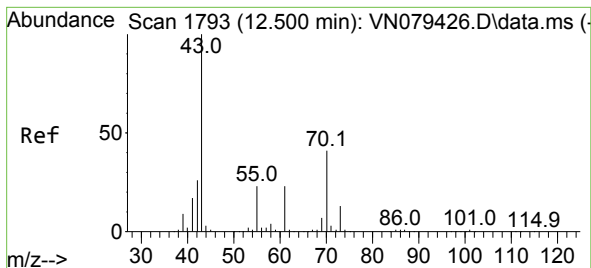
Tgt Ion:117 Resp: 467991
Ion Ratio Lower Upper
117 100
82 57.2 44.0 66.0
119 31.6 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. 0.006 min
Lab File: VN079662.D
Acq: 24 Oct 2023 17:14

Tgt Ion:152 Resp: 150719
Ion Ratio Lower Upper
152 100
115 60.1 32.3 96.8
150 158.0 0.0 355.8





#74

N-amy1 acetate

Concen: 0.218 ug/l

RT: 12.506 min Scan# 1

Delta R.T. 0.006 min

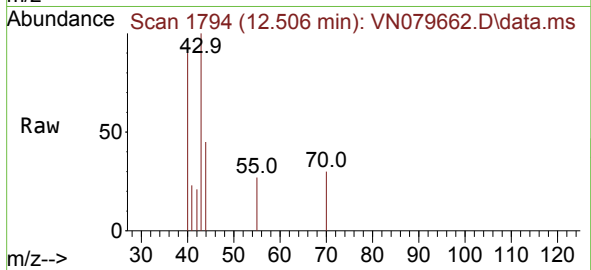
Lab File: VN079662.D

Acq: 24 Oct 2023 17:14

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 43 Resp: 1251

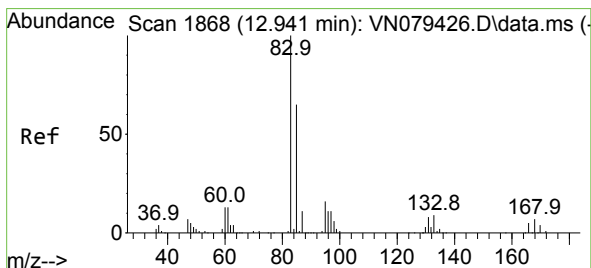
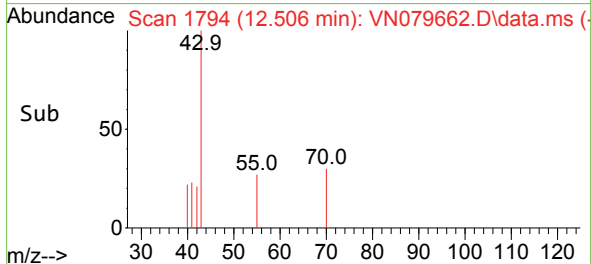
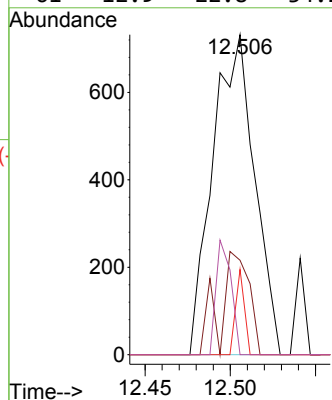
Ion Ratio Lower Upper

43 100

70 22.2 43.4 65.2#

55 5.5 21.4 32.0#

61 12.9 22.8 34.2#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.947 min Scan# 1869

Delta R.T. 0.006 min

Lab File: VN079662.D

Acq: 24 Oct 2023 17:14

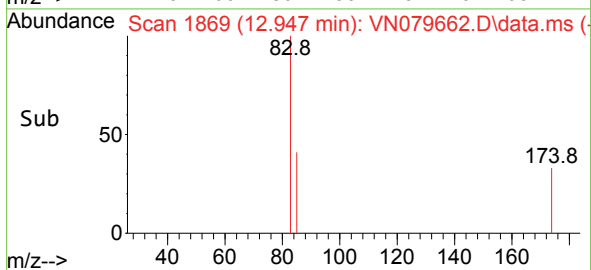
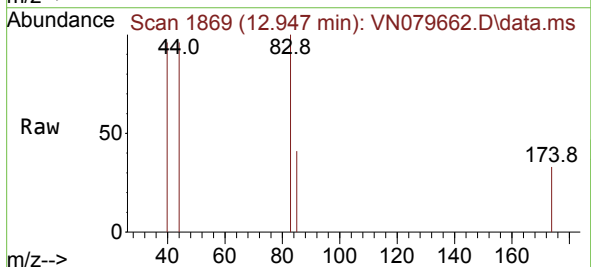
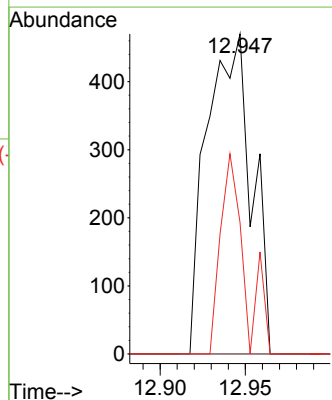
Tgt Ion: 83 Resp: 857

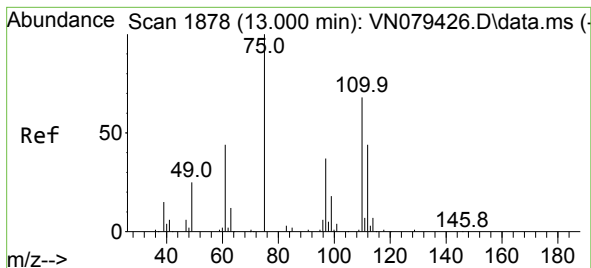
Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 33.5 31.9 95.7





#76

1,2,3-Trichloropropane

Concen: 24.768 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN079662.D

Acq: 24 Oct 2023 17:14

Instrument :

MSVOA_N

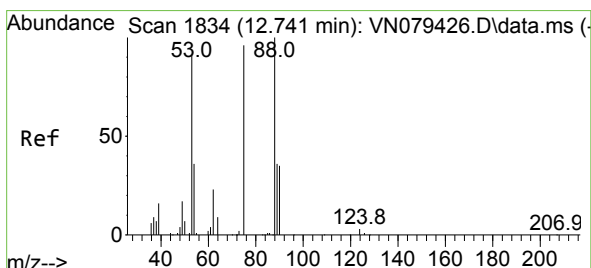
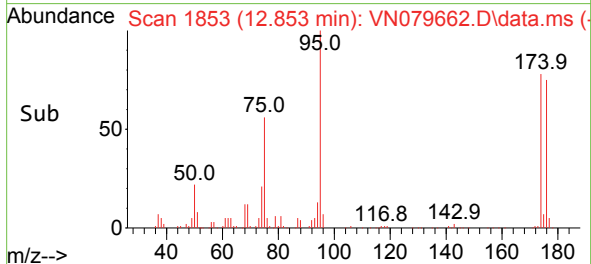
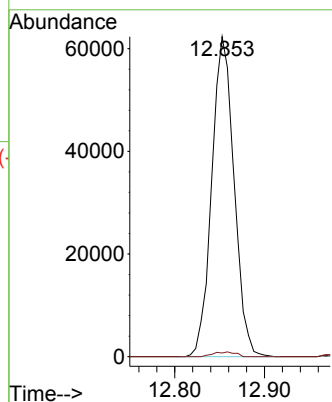
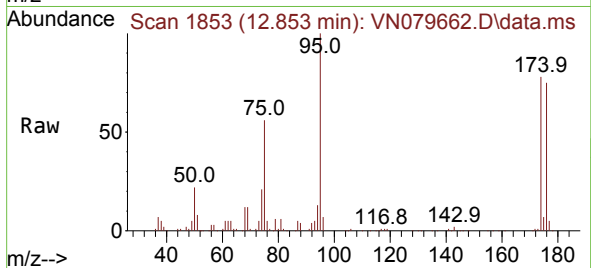
ClientSampleId :

Tgt Ion: 75 Resp: 107633

Ion Ratio Lower Upper

75 100

77 1.5 84.5 253.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 71.866 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN079662.D

Acq: 24 Oct 2023 17:14

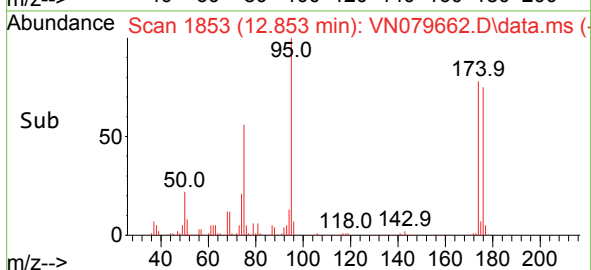
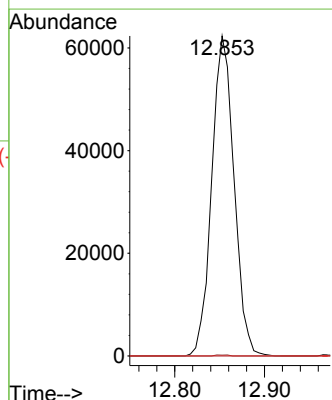
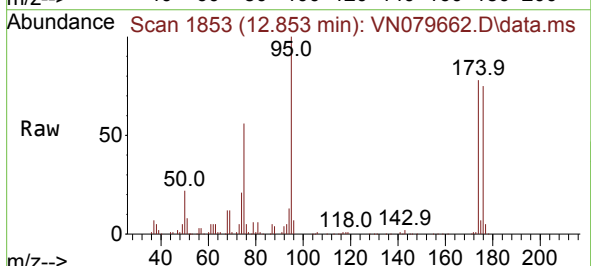
Tgt Ion: 75 Resp: 107633

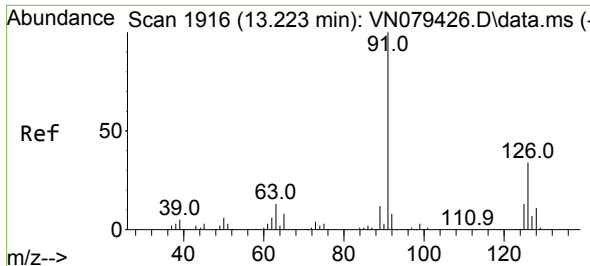
Ion Ratio Lower Upper

75 100

53 0.2 67.4 101.2#

89 0.0 38.8 58.2#

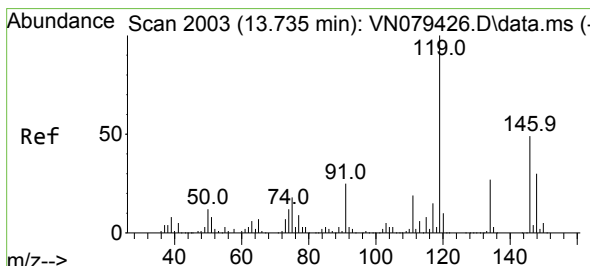
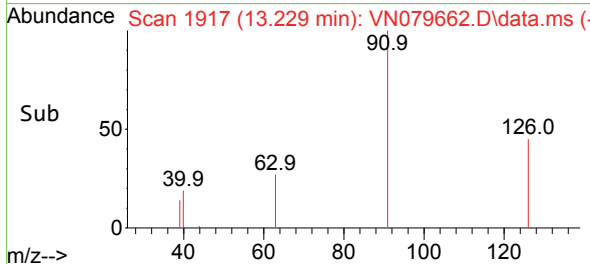
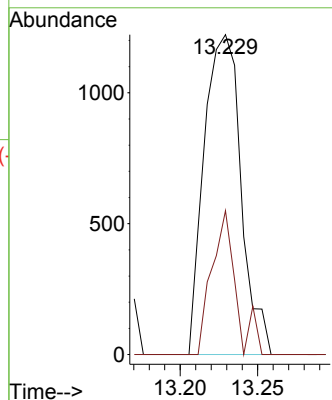
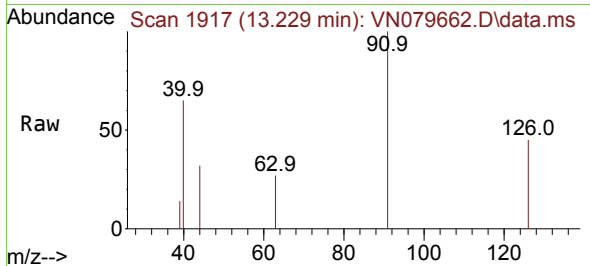




#82
4-Chlorotoluene
Concen: 0.209 ug/l
RT: 13.229 min Scan# 1916
Delta R.T. 0.006 min
Lab File: VN079662.D
Acq: 24 Oct 2023 17:14

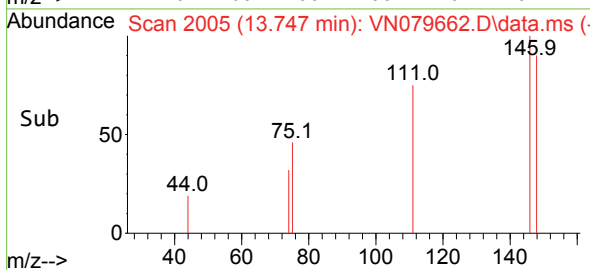
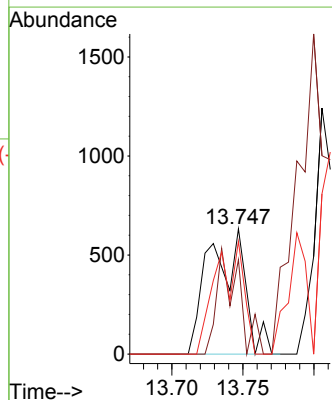
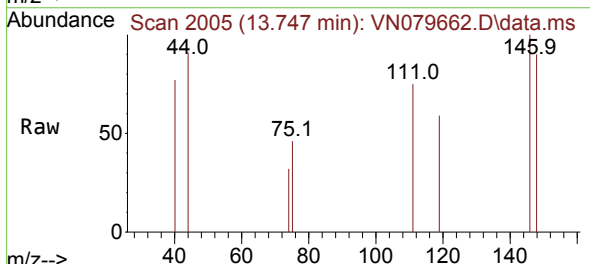
Instrument :
MSVOA_N
ClientSampleId :

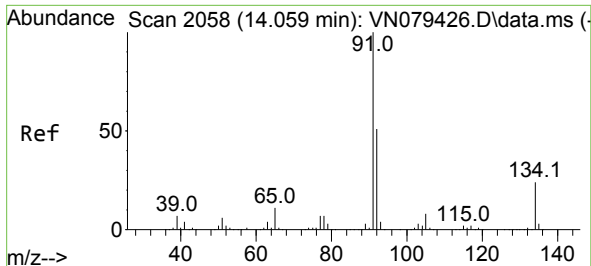
Tgt Ion: 91 Resp: 2023
Ion Ratio Lower Upper
91 100
126 29.3 16.7 50.0



#87
1,3-Dichlorobenzene
Concen: 0.202 ug/l
RT: 13.747 min Scan# 2005
Delta R.T. 0.012 min
Lab File: VN079662.D
Acq: 24 Oct 2023 17:14

Tgt Ion: 146 Resp: 1104
Ion Ratio Lower Upper
146 100
111 51.3 22.1 66.3
148 69.0 32.0 96.0





#89

n-Butylbenzene

Concen: 0.246 ug/l

RT: 14.064 min Scan# 2058

Delta R.T. 0.006 min

Lab File: VN079662.D

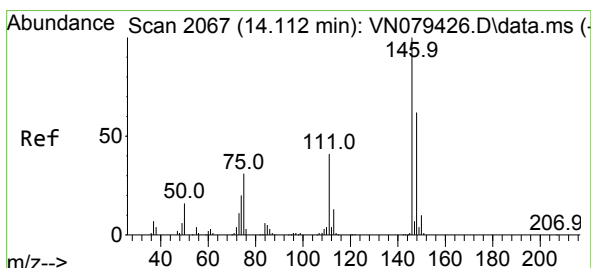
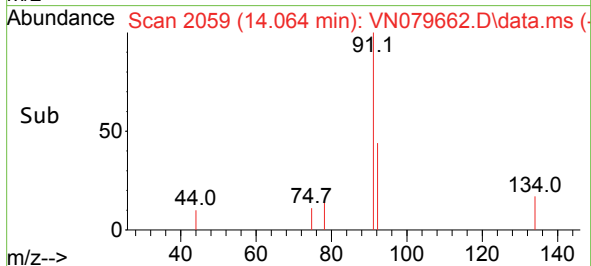
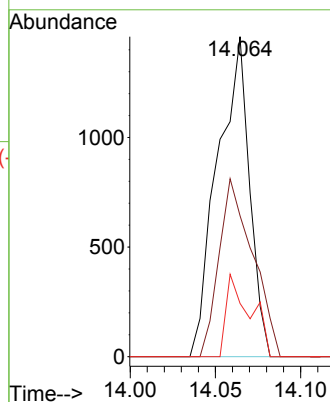
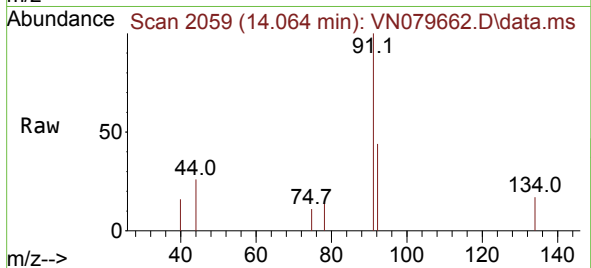
Acq: 24 Oct 2023 17:14

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion: 91	Resp: 1901
Ion Ratio	Lower Upper
91	100
92	58.9 26.4 79.0
134	19.3 12.6 37.6



#91

1,2-Dichlorobenzene

Concen: 0.319 ug/l

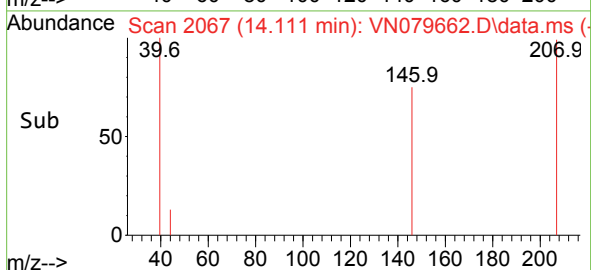
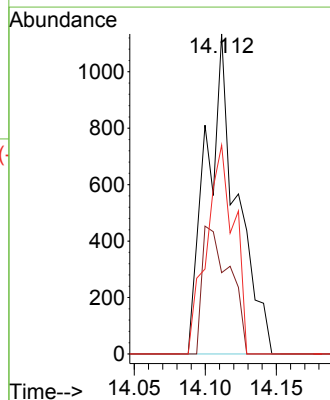
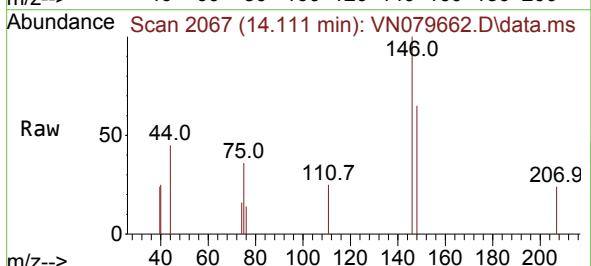
RT: 14.111 min Scan# 2067

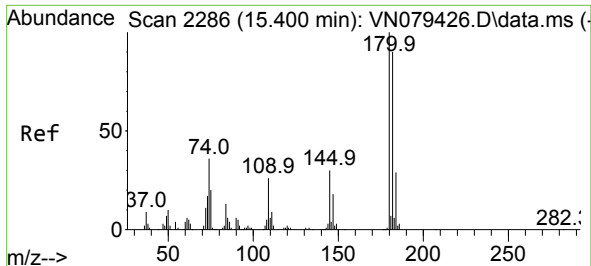
Delta R.T. -0.000 min

Lab File: VN079662.D

Acq: 24 Oct 2023 17:14

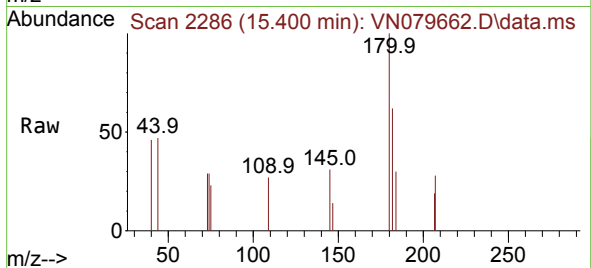
Tgt Ion: 146	Resp: 1696
Ion Ratio	Lower Upper
146	100
111	35.8 22.0 66.0
148	59.0 31.8 95.3



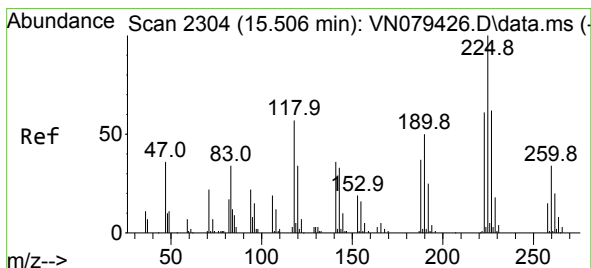
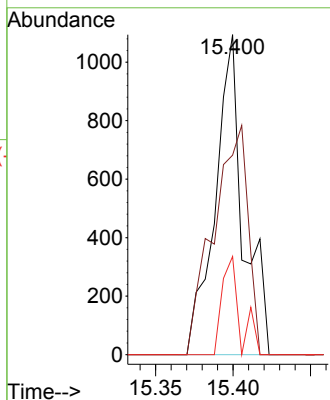
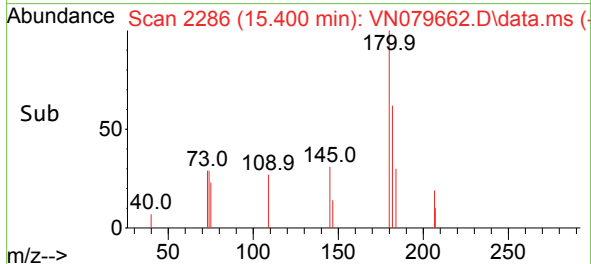


#93
1,2,4-Trichlorobenzene
Concen: 0.840 ug/l
RT: 15.400 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN079662.D
Acq: 24 Oct 2023 17:14

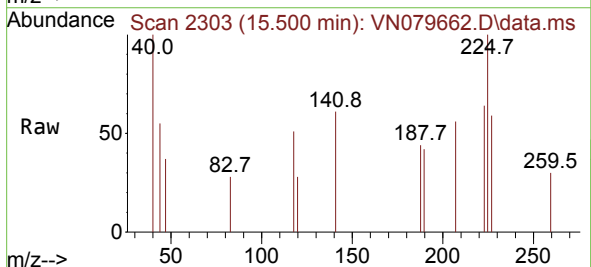
Instrument :
MSVOA_N
ClientSampleId :



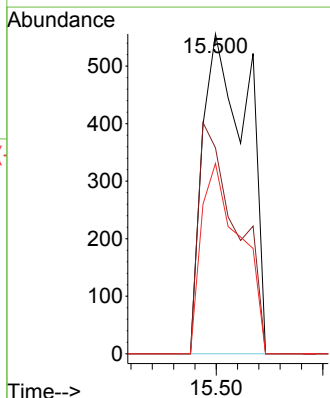
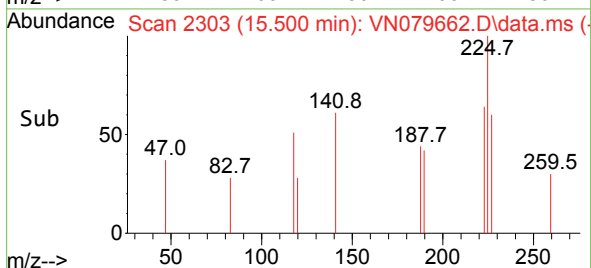
Tgt Ion:180 Resp: 1384
Ion Ratio Lower Upper
180 100
182 87.8 46.1 138.2
145 19.4 16.6 49.8

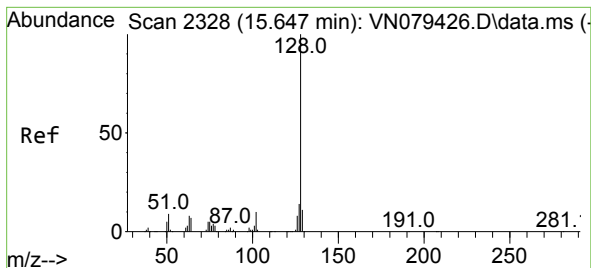


#94
Hexachlorobutadiene
Concen: 0.629 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.006 min
Lab File: VN079662.D
Acq: 24 Oct 2023 17:14



Tgt Ion:225 Resp: 807
Ion Ratio Lower Upper
225 100
223 62.0 31.3 93.8
227 52.4 31.9 95.9





#95

Naphthalene

Concen: 1.045 ug/l

RT: 15.647 min Scan# 21

Delta R.T. -0.000 min

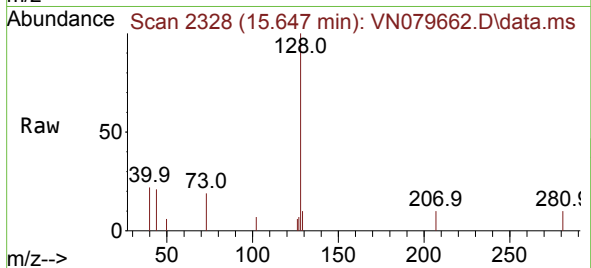
Lab File: VN079662.D

Acq: 24 Oct 2023 17:14

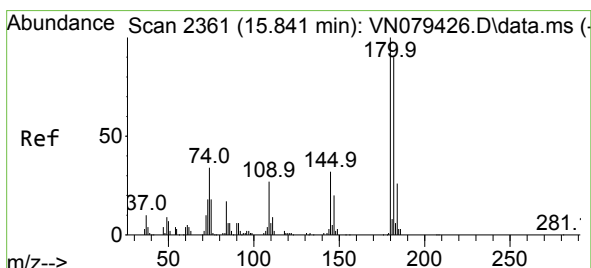
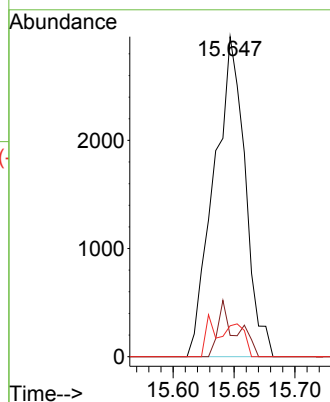
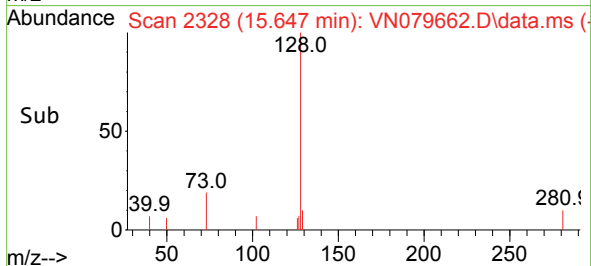
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	128	Resp:	5257
Ion	Ratio	Lower	Upper
128	100		
127	10.2	10.0	15.0
129	5.6	8.7	13.1#



#96

1,2,3-Trichlorobenzene

Concen: 0.956 ug/l

RT: 15.841 min Scan# 2361

Delta R.T. -0.000 min

Lab File: VN079662.D

Acq: 24 Oct 2023 17:14

Tgt Ion:	180	Resp:	1880
Ion	Ratio	Lower	Upper
180	100		
182	84.6	46.2	138.6
145	31.0	17.5	52.6

