

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092823\
 Data File : VN079368.D
 Acq On : 28 Sep 2023 12:52
 Operator : JC\MD
 Sample : 04620-13
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 29 04:34:27 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091123W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 12 05:05:24 2023
 Response via : Initial Calibration

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

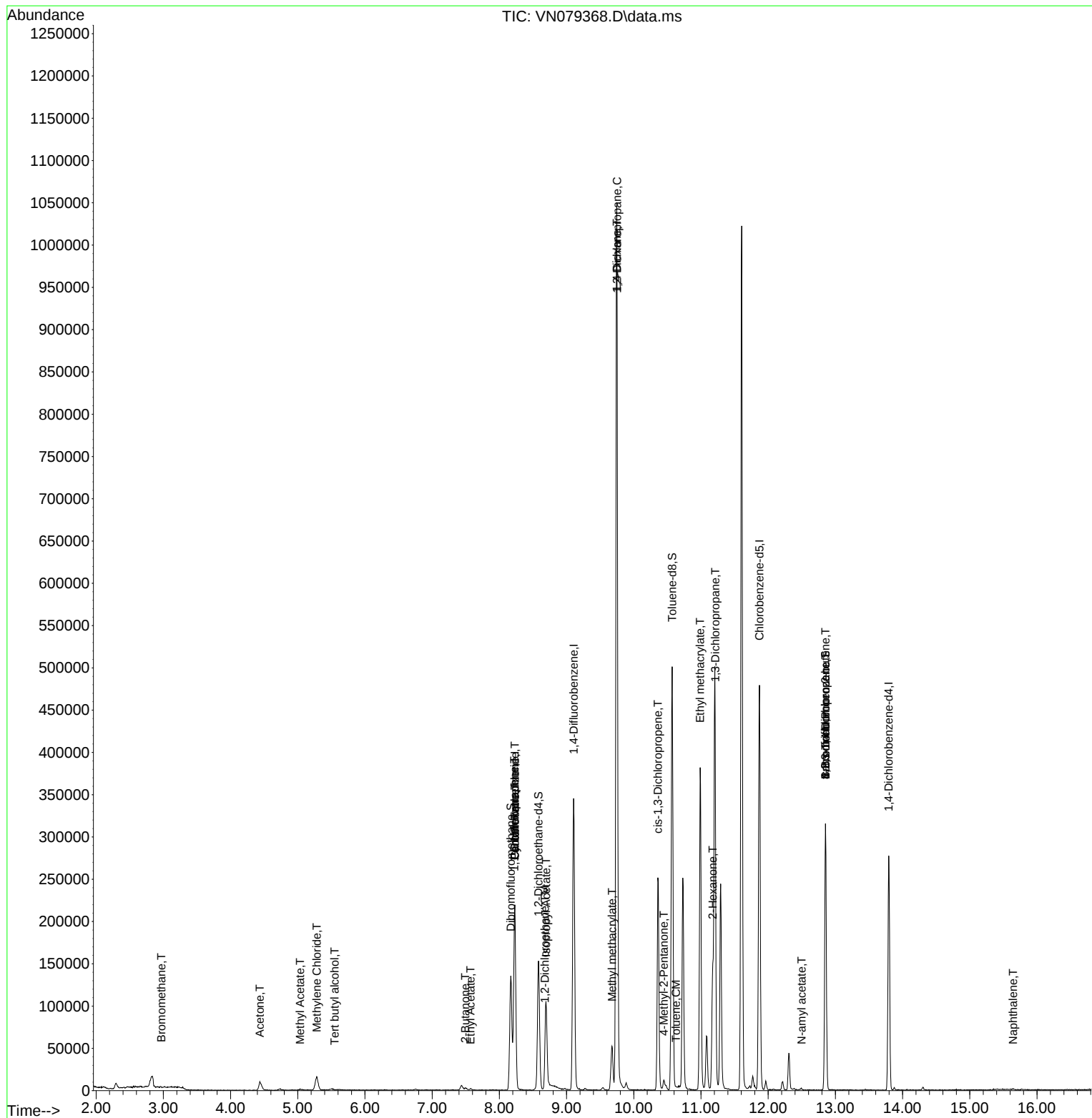
Internal Standards						
1) Pentafluorobenzene	8.230	168	151186	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	292181	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	271083	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	73818	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	121665	59.614	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	119.220%
35) Dibromofluoromethane	8.171	113	94297	48.518	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	97.040%
50) Toluene-d8	10.571	98	332847	46.641	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	93.280%
62) 4-Bromofluorobenzene	12.853	95	105215	46.221	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	92.440%
Target Compounds						
					Qvalue	
5) Bromomethane	2.971	94	338	0.275	ug/l #	4
6) Chloroethane	3.118	64	559	Below Cal	#	43
11) Tert butyl alcohol	5.547	59	78	0.207	ug/l #	72
16) Acetone	4.436	43	19417	22.402	ug/l	92
18) Methyl Acetate	5.036	43	1371	0.385	ug/l #	58
20) Methylene Chloride	5.283	84	11501	5.453	ug/l #	76
25) 2-Butanone	7.494	43	5281	4.199	ug/l #	70
31) Cyclohexane	8.230	56	4044	1.357	ug/l #	46
36) 1,1-Dichloropropene	8.224	75	14680	4.900	ug/l #	46
37) Ethyl Acetate	7.571	43	3108	1.040	ug/l #	66
38) Carbon Tetrachloride	8.230	117	16303	5.259	ug/l #	17
42) 1,2-Dichloroethane	8.677	62	717	0.227	ug/l #	73
43) Isopropyl Acetate	8.694	43	123533	25.338	ug/l #	79
45) 1,2-Dichloropropane	9.753	63	1188	0.522	ug/l #	45
48) Methyl methacrylate	9.676	41	3447	1.578	ug/l #	30
49) 1,4-Dioxane	9.747	88	183	4.074	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	11477	4.055	ug/l #	67
52) Toluene	10.629	92	1130	0.201	ug/l	91
54) cis-1,3-Dichloropropene	10.359	75	41264	11.562	ug/l #	71
56) Ethyl methacrylate	10.988	69	1985	0.636	ug/l #	1
57) 1,3-Dichloropropane	11.212	76	4647	1.216	ug/l #	42
58) 2-Chloroethyl Vinyl ether	10.159	63	220	Below Cal	#	42
59) 2-Hexanone	11.176	43	118243	57.683	ug/l #	19
71) Bromoform	12.853	173	958	0.564	ug/l #	1
74) N-amyl acetate	12.500	43	1424	0.559	ug/l #	36
76) 1,2,3-Trichloropropane	12.853	75	60432	30.376	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	60432	83.509	ug/l #	15
95) Naphthalene	15.647	128	1278	0.435	ug/l #	70

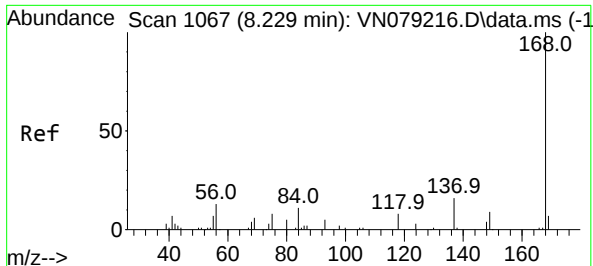
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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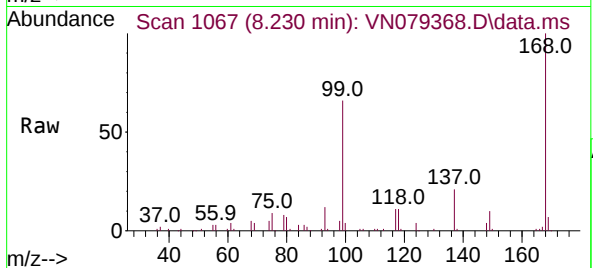
Quant Time: Sep 29 04:34:27 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091123W.M
Quant Title : SW846 8260
QLast Update : Tue Sep 12 05:05:24 2023
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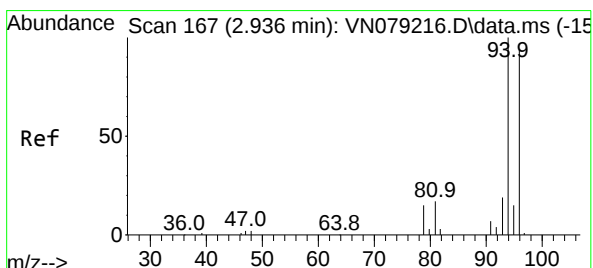
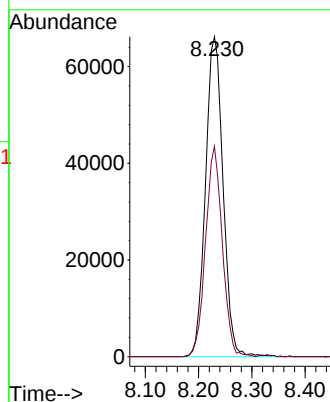
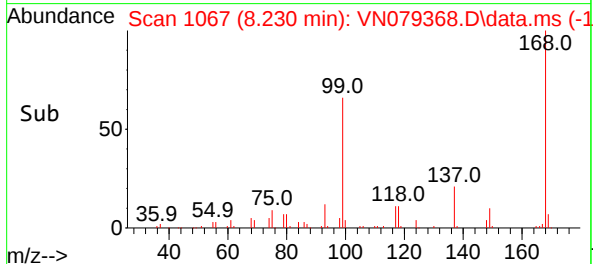


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN079368.D
Acq: 28 Sep 2023 12:52

Instrument :
MSVOA_N
ClientSampleId :

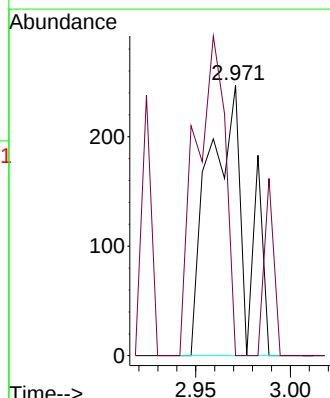
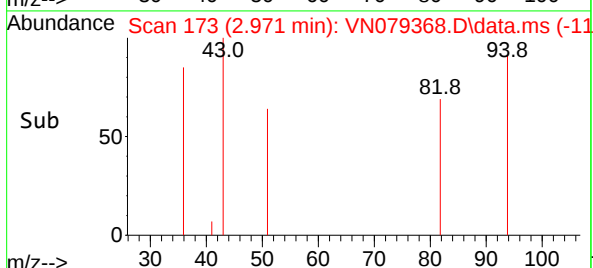
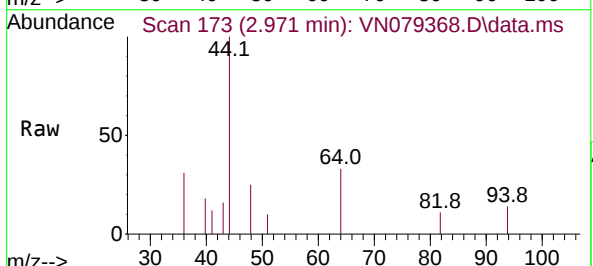


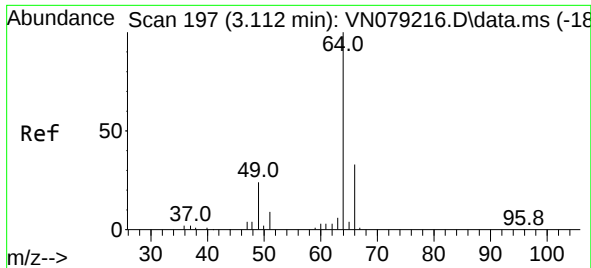
Tgt Ion:168 Resp: 151186
Ion Ratio Lower Upper
168 100
99 65.7 53.0 79.6



#5
Bromomethane
Concen: 0.275 ug/l
RT: 2.971 min Scan# 173
Delta R.T. 0.023 min
Lab File: VN079368.D
Acq: 28 Sep 2023 12:52

Tgt Ion: 94 Resp: 338
Ion Ratio Lower Upper
94 100
96 0.0 73.1 109.7#

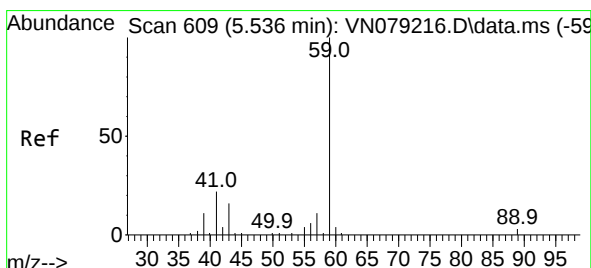
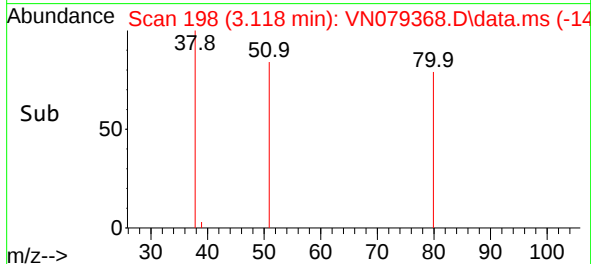
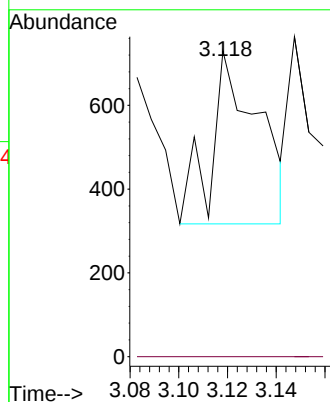
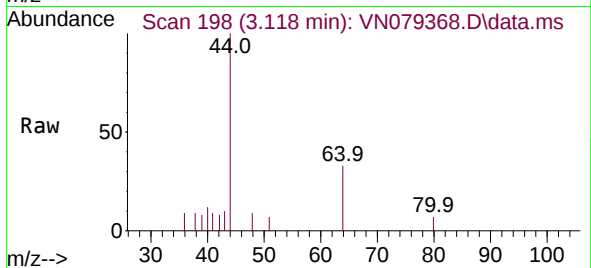




#6
Chloroethane
Concen: Below Cal
RT: 3.118 min Scan# 197
Delta R.T. 0.000 min
Lab File: VN079368.D
Acq: 28 Sep 2023 12:52

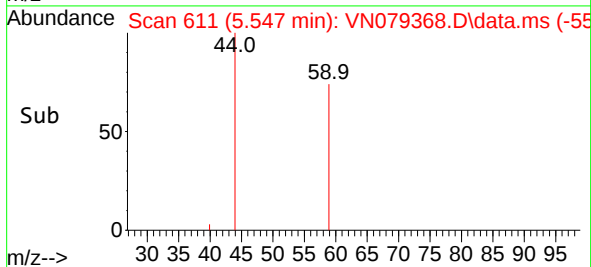
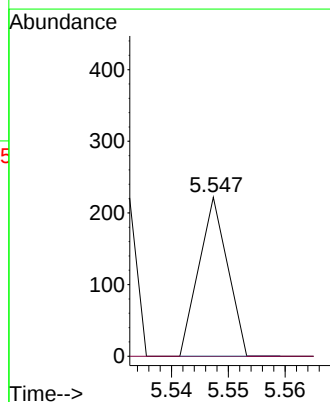
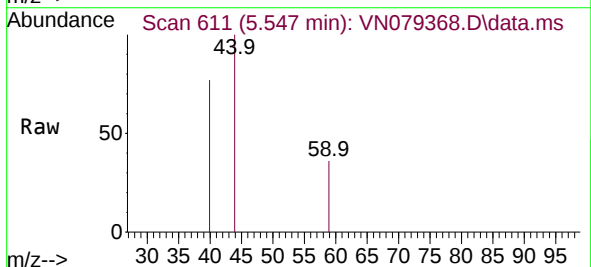
Instrument :
MSVOA_N
ClientSampleId :

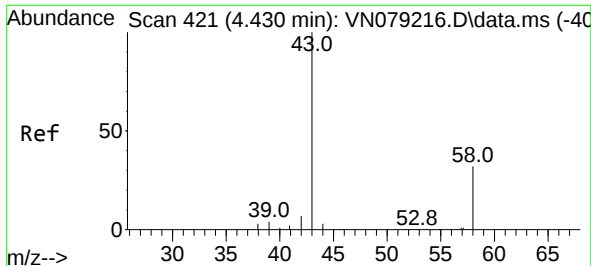
Tgt Ion: 64 Resp: 559
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#11
Tert butyl alcohol
Concen: 0.207 ug/l
RT: 5.547 min Scan# 611
Delta R.T. 0.005 min
Lab File: VN079368.D
Acq: 28 Sep 2023 12:52

Tgt Ion: 59 Resp: 78
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

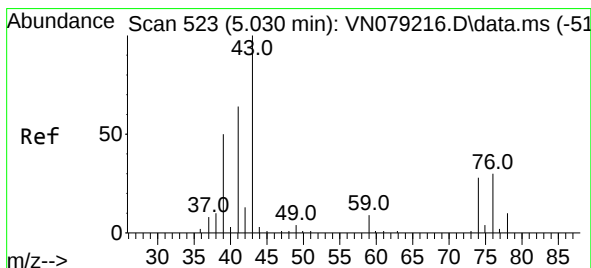
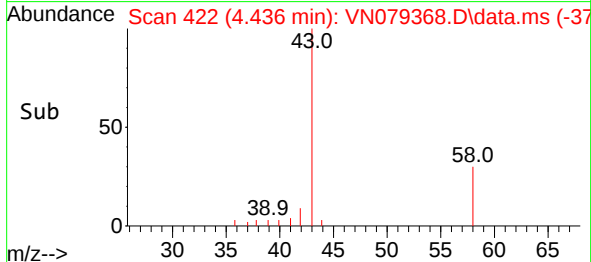
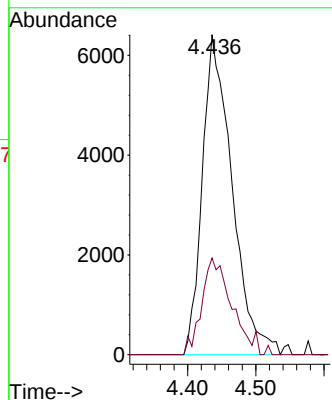
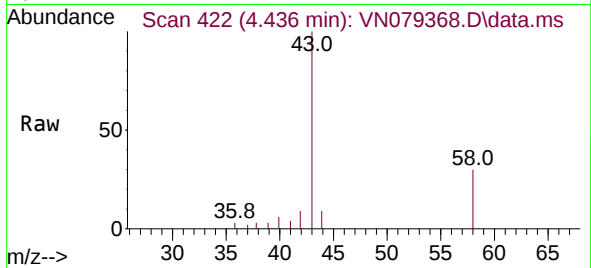




#16
Acetone
Concen: 22.402 ug/l
RT: 4.436 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN079368.D
Acq: 28 Sep 2023 12:52

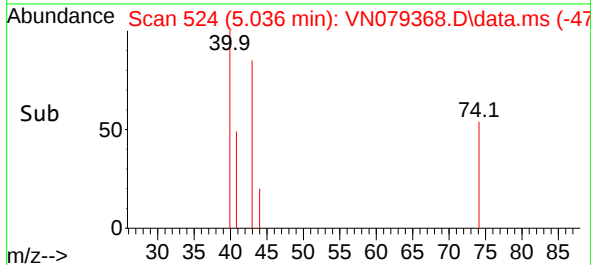
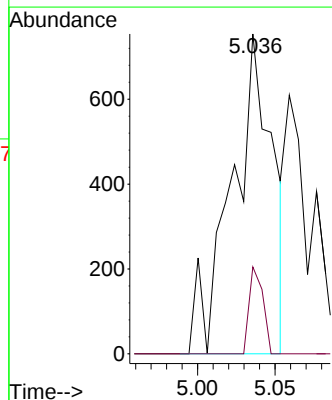
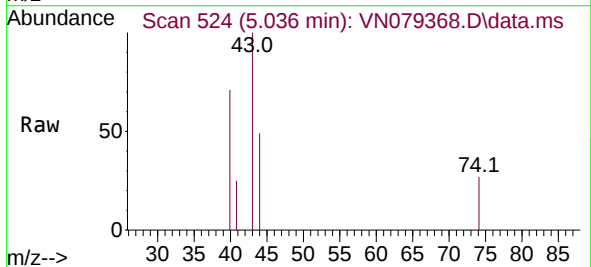
Instrument :
MSVOA_N
ClientSampleId :

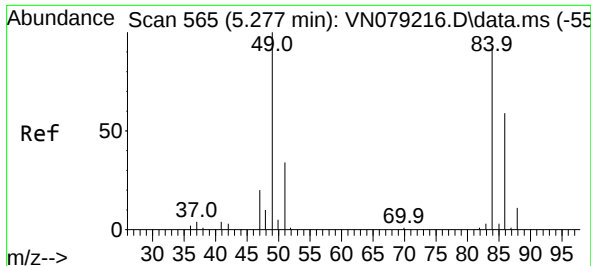
Tgt Ion: 43 Resp: 19417
Ion Ratio Lower Upper
43 100
58 30.2 28.0 42.0



#18
Methyl Acetate
Concen: 0.385 ug/l
RT: 5.036 min Scan# 524
Delta R.T. -0.006 min
Lab File: VN079368.D
Acq: 28 Sep 2023 12:52

Tgt Ion: 43 Resp: 1371
Ion Ratio Lower Upper
43 100
74 9.2 26.2 39.4#





#20

Methylene Chloride

Concen: 5.453 ug/l

RT: 5.283 min Scan# 5

Delta R.T. -0.000 min

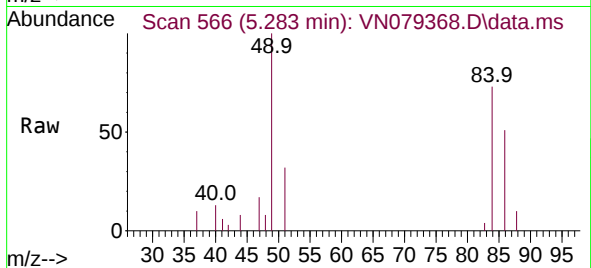
Lab File: VN079368.D

Acq: 28 Sep 2023 12:52

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 84 Resp: 11501

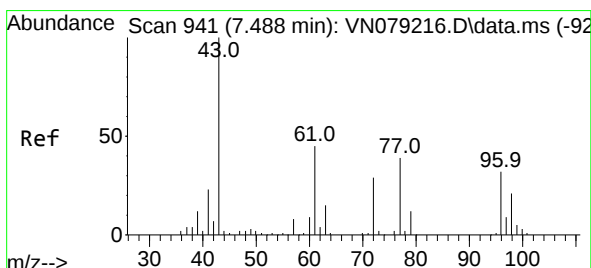
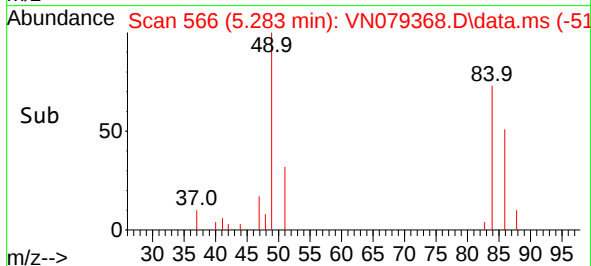
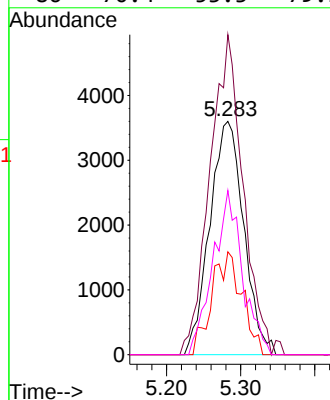
Ion Ratio Lower Upper

84 100

49 137.2 79.7 119.5#

51 44.1 25.2 37.8#

86 70.4 53.3 79.9



#25

2-Butanone

Concen: 4.199 ug/l

RT: 7.494 min Scan# 942

Delta R.T. 0.000 min

Lab File: VN079368.D

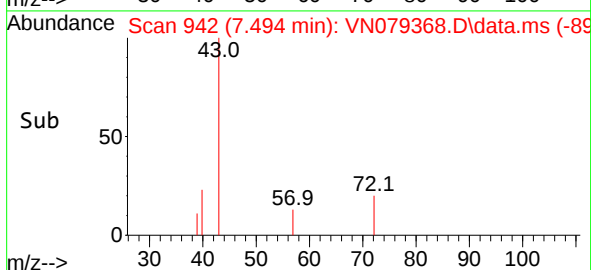
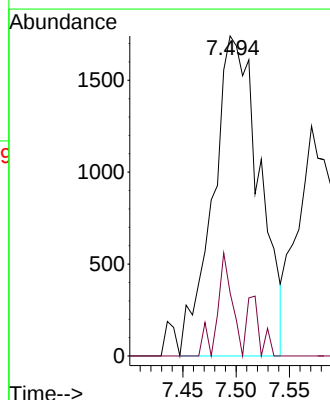
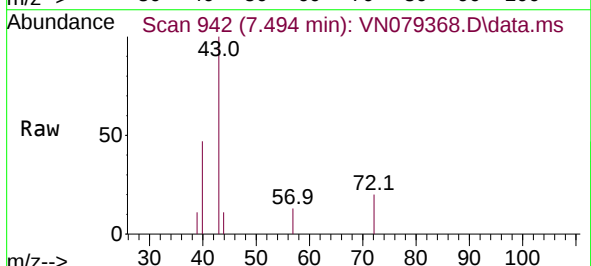
Acq: 28 Sep 2023 12:52

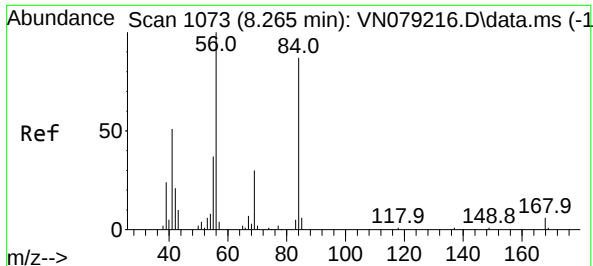
Tgt Ion: 43 Resp: 5281

Ion Ratio Lower Upper

43 100

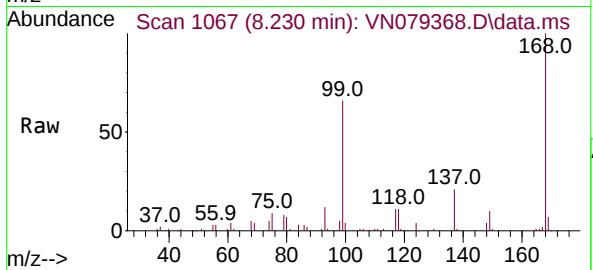
72 19.7 30.2 45.2#



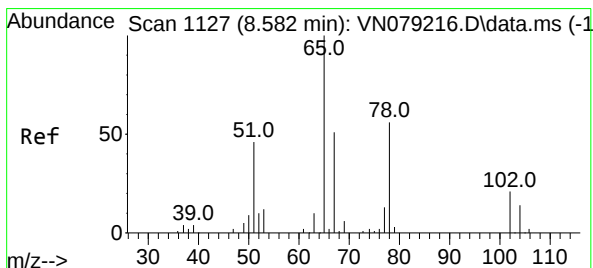
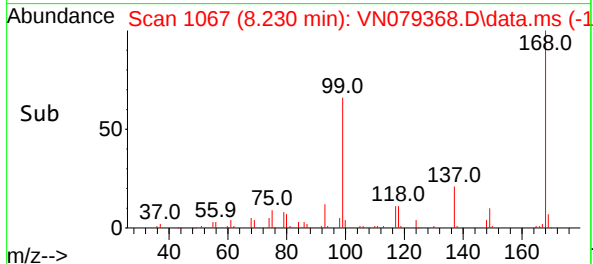
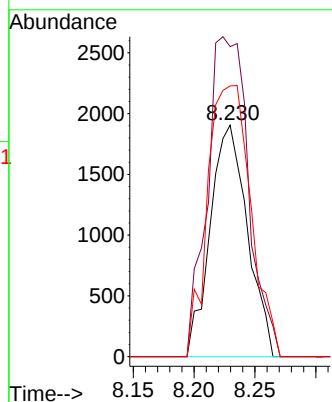


#31
Cyclohexane
Concen: 1.357 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN079368.D
Acq: 28 Sep 2023 12:52

Instrument :
MSVOA_N
ClientSampleId :

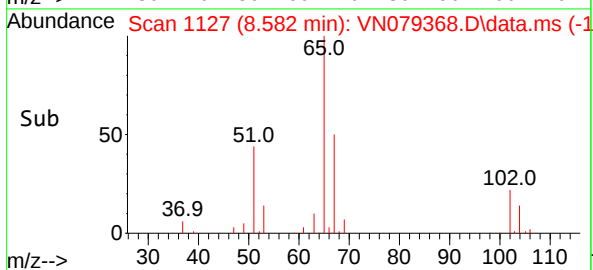
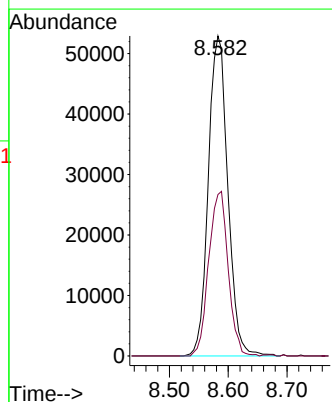
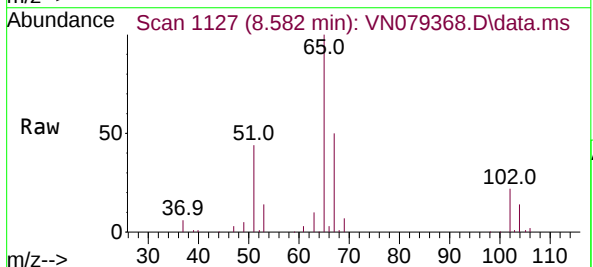


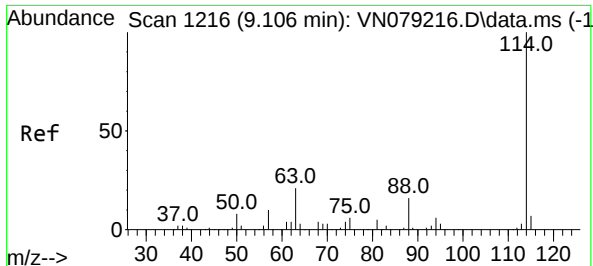
Tgt Ion: 56 Resp: 4044
Ion Ratio Lower Upper
56 100
69 133.9 26.8 40.2#
84 116.9 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 59.614 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.001 min
Lab File: VN079368.D
Acq: 28 Sep 2023 12:52

Tgt Ion: 65 Resp: 121665
Ion Ratio Lower Upper
65 100
67 51.3 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN079368.D

Acq: 28 Sep 2023 12:52

Instrument :

MSVOA_N

ClientSampleId :

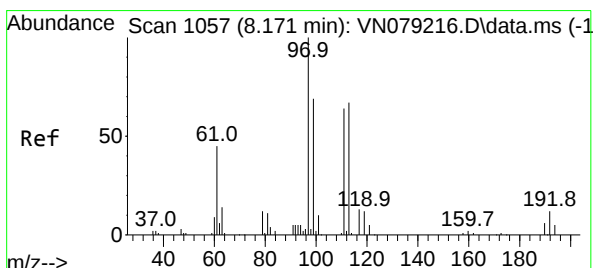
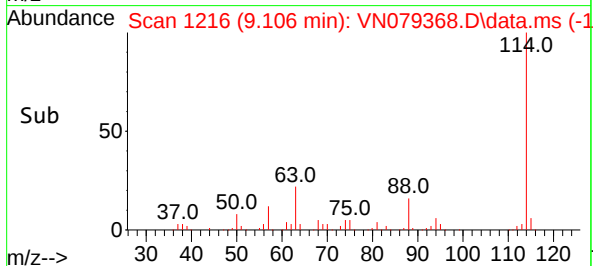
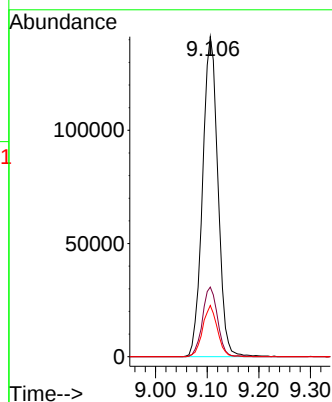
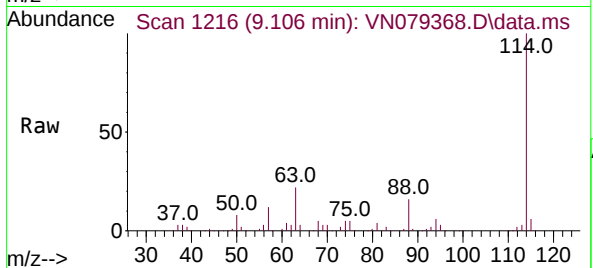
Tgt Ion:114 Resp: 292181

Ion Ratio Lower Upper

114 100

63 21.7 0.0 36.4

88 16.0 0.0 30.6



#35

Dibromofluoromethane

Concen: 48.518 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN079368.D

Acq: 28 Sep 2023 12:52

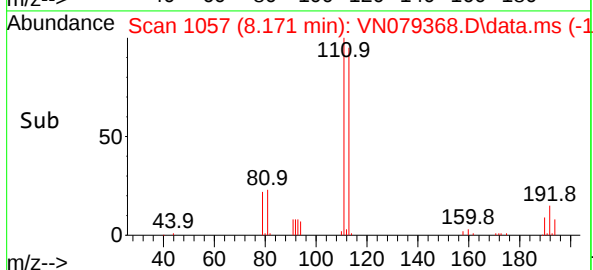
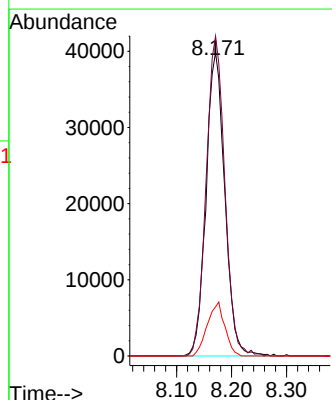
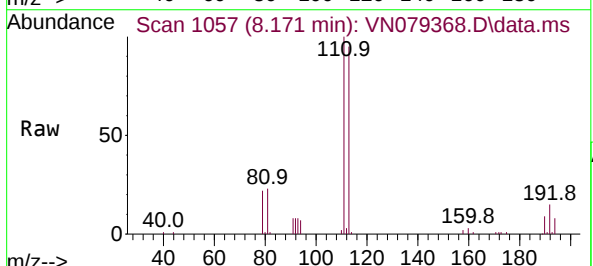
Tgt Ion:113 Resp: 94297

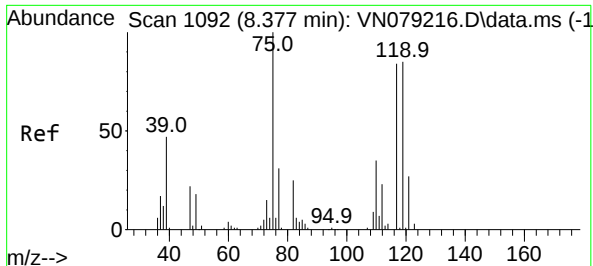
Ion Ratio Lower Upper

113 100

111 105.1 82.6 123.8

192 16.6 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.900 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.153 min

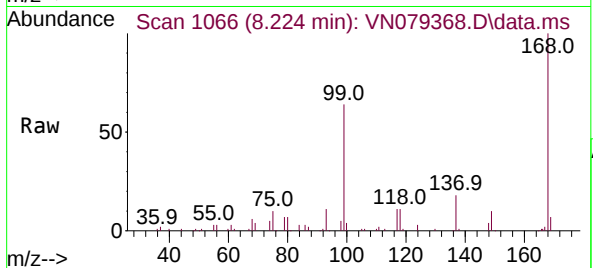
Lab File: VN079368.D

Acq: 28 Sep 2023 12:52

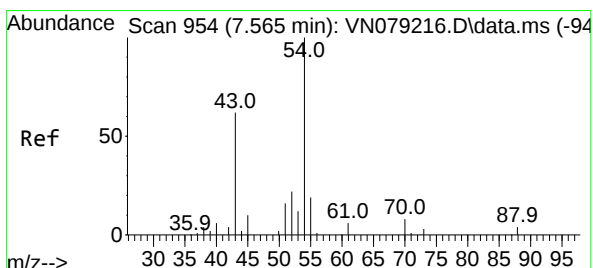
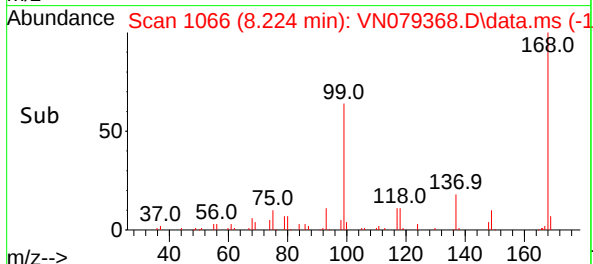
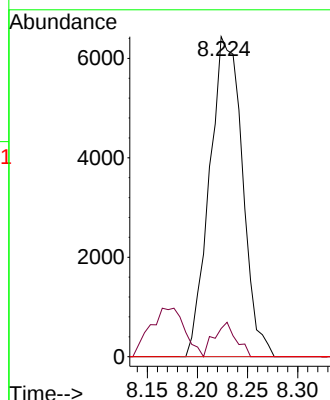
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 75	Resp: 14680
Ion Ratio	Lower Upper
75	100
110	7.1 19.1 57.3#
77	0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 1.040 ug/l

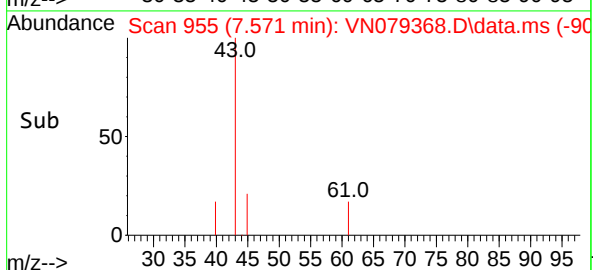
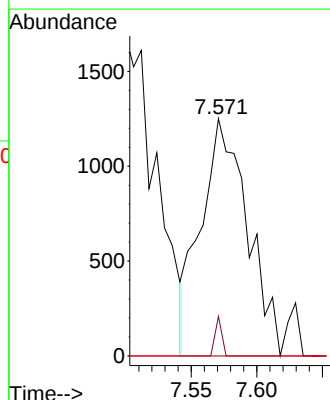
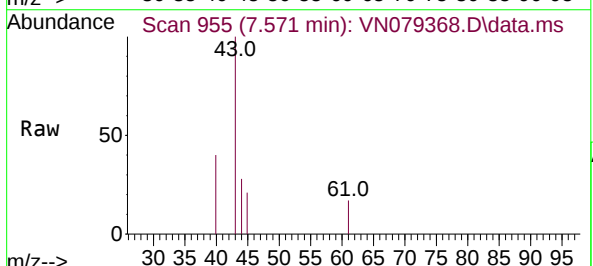
RT: 7.571 min Scan# 955

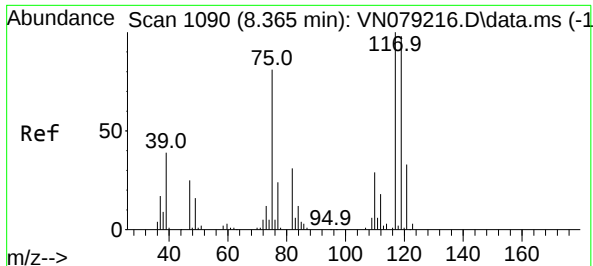
Delta R.T. -0.000 min

Lab File: VN079368.D

Acq: 28 Sep 2023 12:52

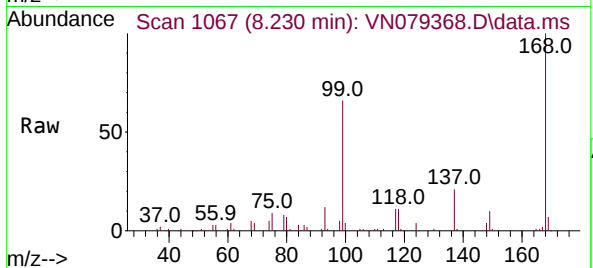
Tgt Ion: 43	Resp: 3108
Ion Ratio	Lower Upper
43	100
61	2.3 13.2 19.8#
70	0.0 11.3 16.9#



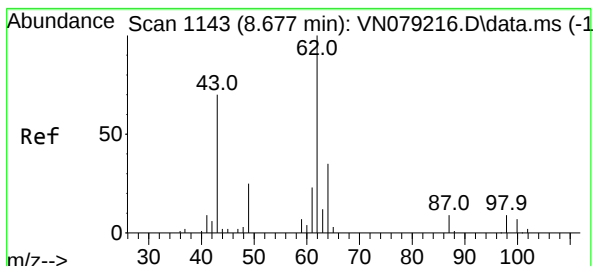
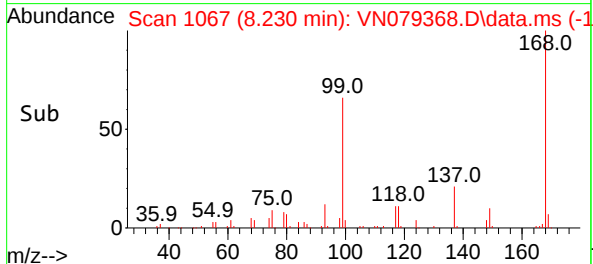
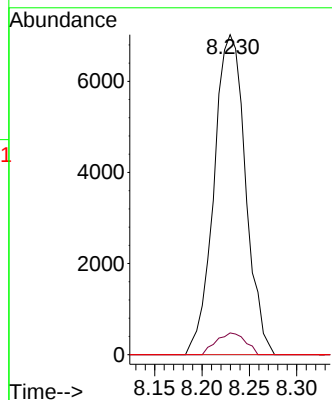


#38
Carbon Tetrachloride
Concen: 5.259 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN079368.D
Acq: 28 Sep 2023 12:52

Instrument :
MSVOA_N
ClientSampleId :

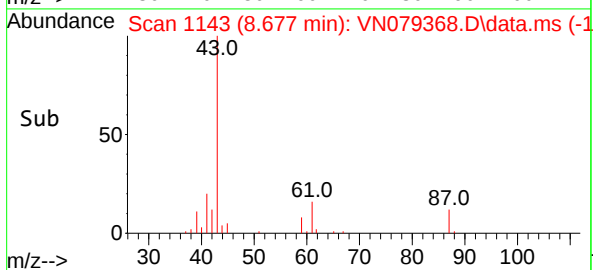
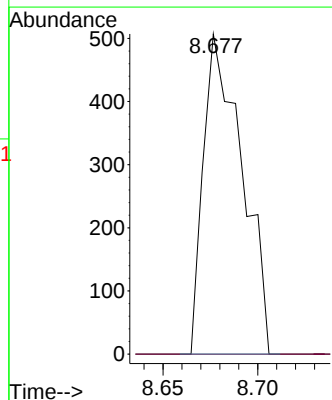
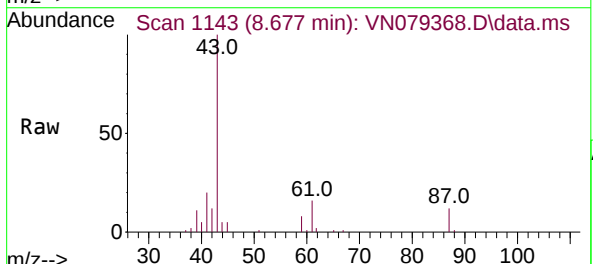


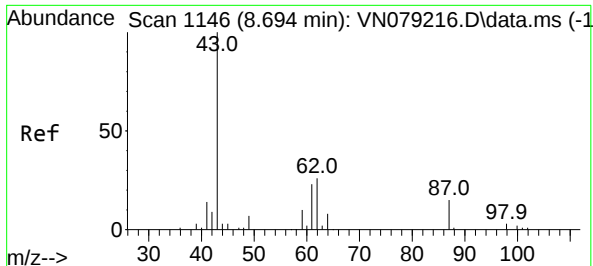
Tgt Ion:117 Resp: 16303
Ion Ratio Lower Upper
117 100
119 6.8 77.3 115.9#
121 0.0 23.3 34.9#



#42
1,2-Dichloroethane
Concen: 0.227 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN079368.D
Acq: 28 Sep 2023 12:52

Tgt Ion: 62 Resp: 717
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.8





#43

Isopropyl Acetate

Concen: 25.338 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN079368.D

Acq: 28 Sep 2023 12:52

Instrument :

MSVOA_N

ClientSampleId :

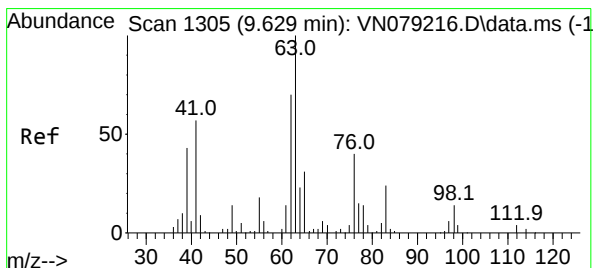
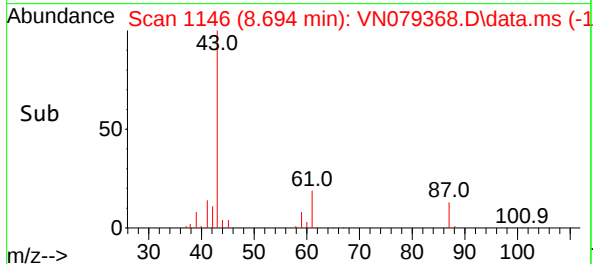
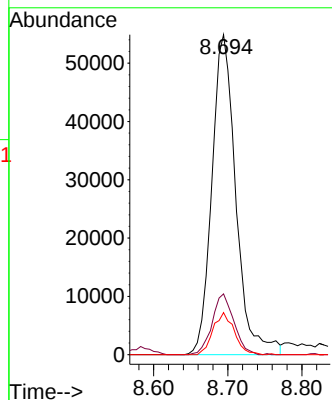
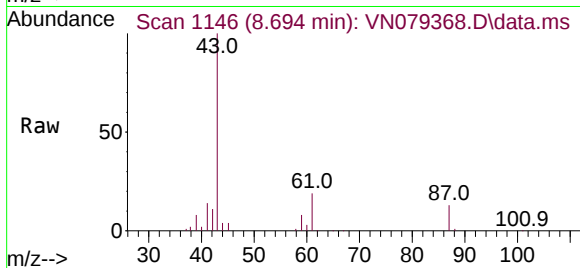
Tgt Ion: 43 Resp: 123533

Ion Ratio Lower Upper

43 100

61 17.2 24.7 37.1#

87 11.6 14.6 21.8#



#45

1,2-Dichloropropane

Concen: 0.522 ug/l

RT: 9.753 min Scan# 1326

Delta R.T. 0.129 min

Lab File: VN079368.D

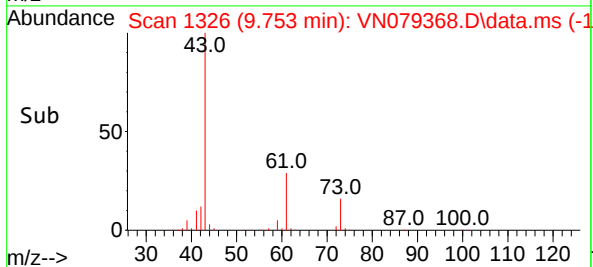
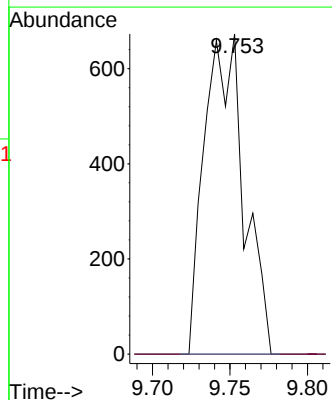
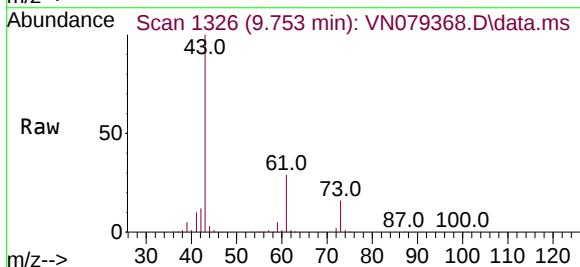
Acq: 28 Sep 2023 12:52

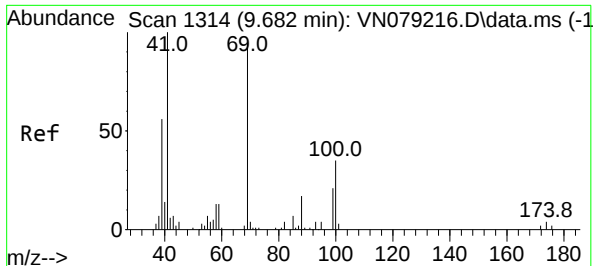
Tgt Ion: 63 Resp: 1188

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#

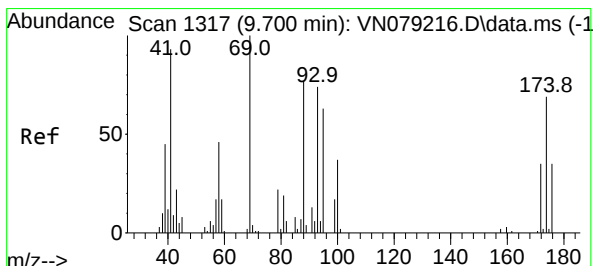
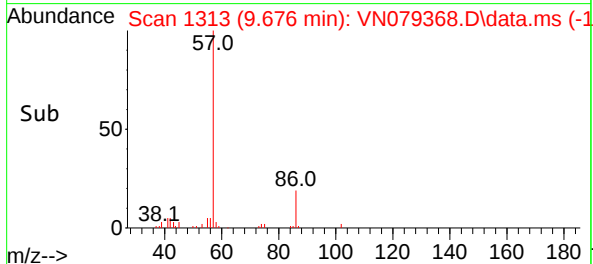
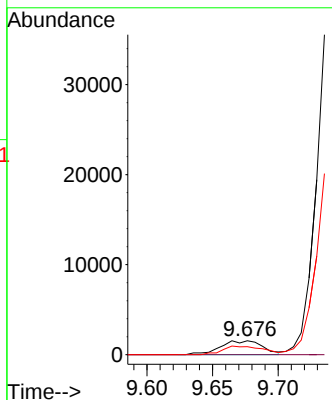
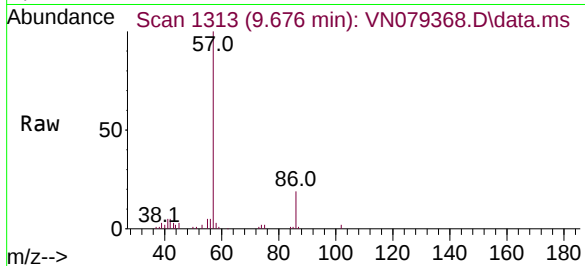




#48
Methyl methacrylate
Concen: 1.578 ug/l
RT: 9.676 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN079368.D
Acq: 28 Sep 2023 12:52

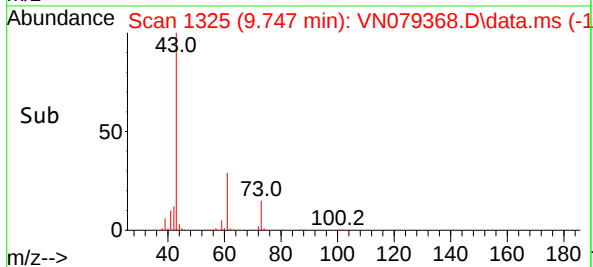
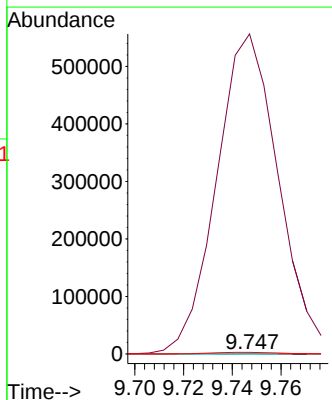
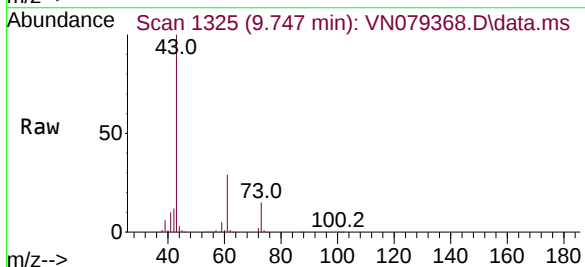
Instrument :
MSVOA_N
ClientSampleId :

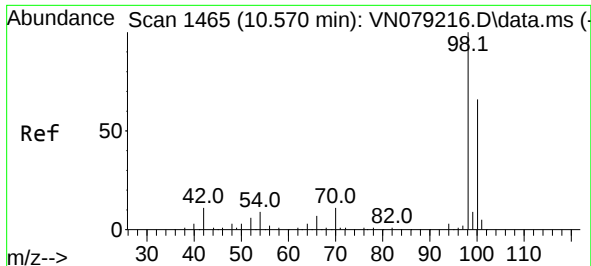
Tgt Ion: 41 Resp: 3447
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 59.5 54.6 81.8



#49
1,4-Dioxane
Concen: 4.074 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.047 min
Lab File: VN079368.D
Acq: 28 Sep 2023 12:52

Tgt Ion: 88 Resp: 183
Ion Ratio Lower Upper
88 100
43 544285.8 17.0 25.6#
58 3037.7 47.0 70.4#

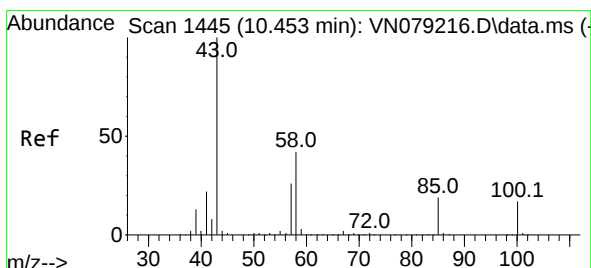
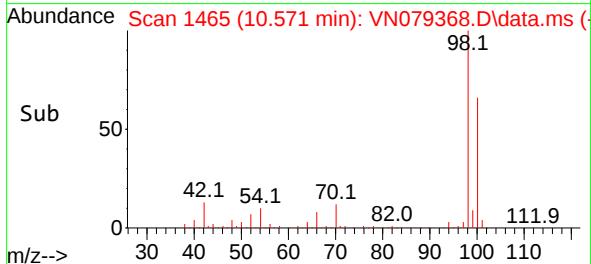
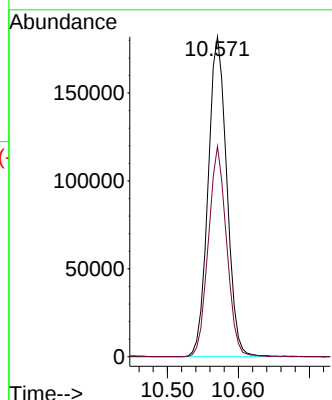
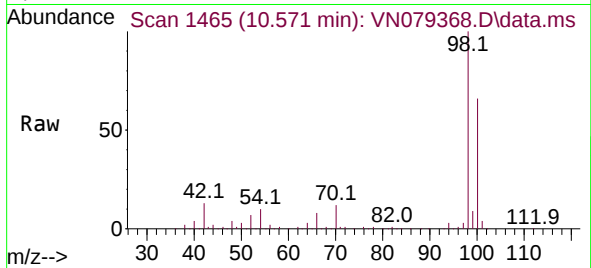




#50
Toluene-d8
Concen: 46.641 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN079368.D
Acq: 28 Sep 2023 12:52

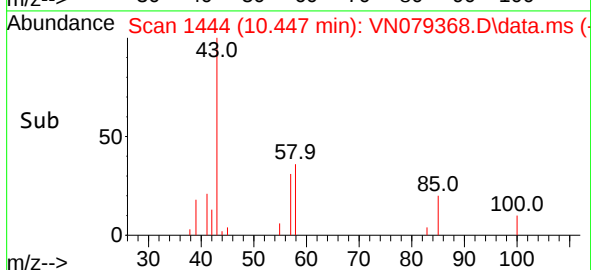
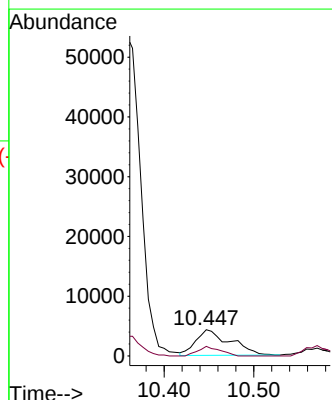
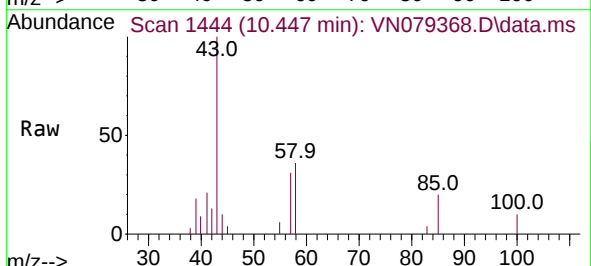
Instrument :
MSVOA_N
ClientSampleId :

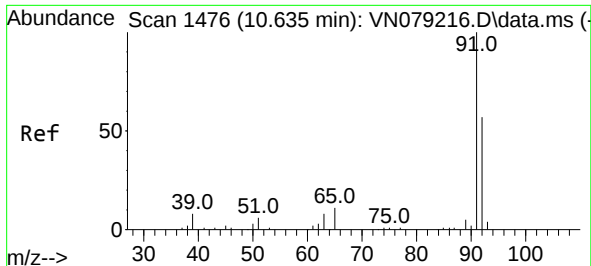
Tgt Ion: 98 Resp: 332847
Ion Ratio Lower Upper
98 100
100 64.1 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 4.055 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.006 min
Lab File: VN079368.D
Acq: 28 Sep 2023 12:52

Tgt Ion: 43 Resp: 11477
Ion Ratio Lower Upper
43 100
58 24.1 36.6 54.8#

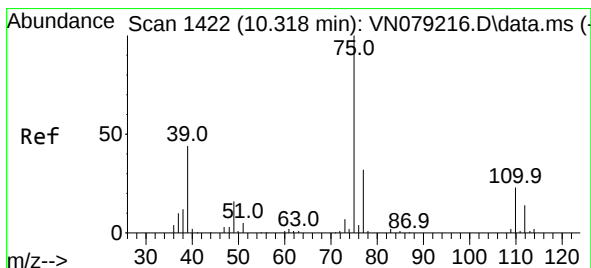
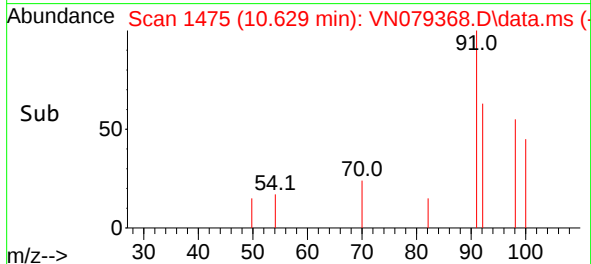
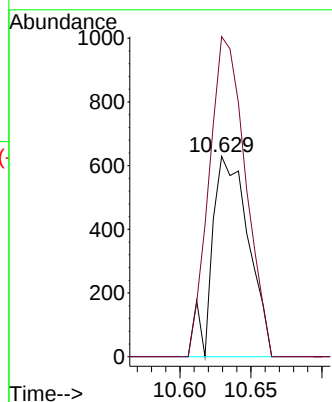
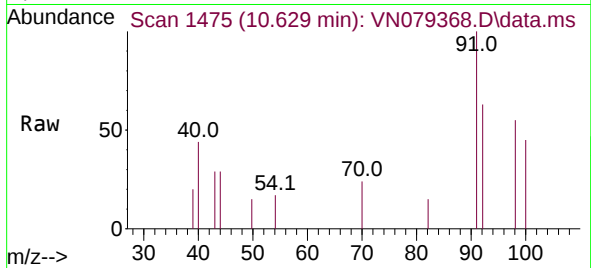




#52
Toluene
Concen: 0.201 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN079368.D
Acq: 28 Sep 2023 12:52

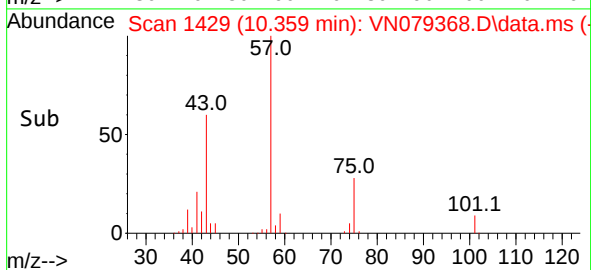
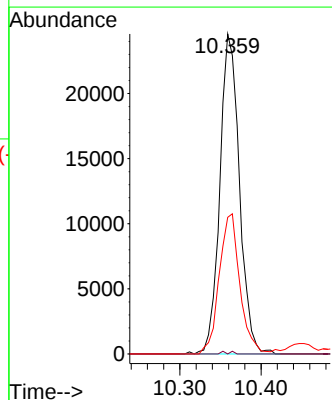
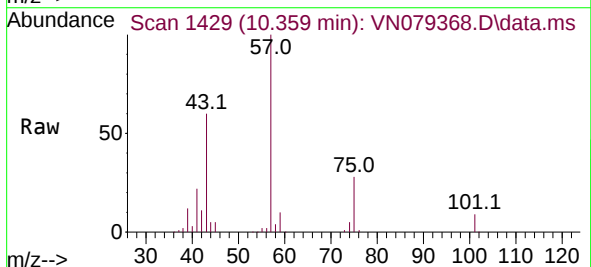
Instrument :
MSVOA_N
ClientSampleId :

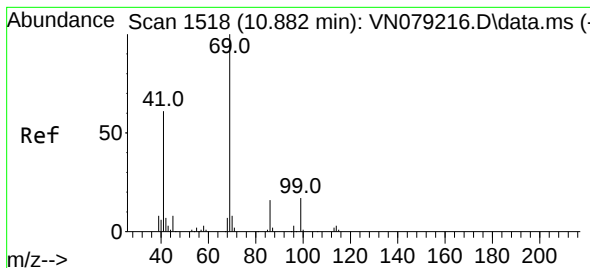
Tgt Ion: 92 Resp: 1130
Ion Ratio Lower Upper
92 100
91 158.8 137.4 206.0



#54
cis-1,3-Dichloropropene
Concen: 11.562 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.041 min
Lab File: VN079368.D
Acq: 28 Sep 2023 12:52

Tgt Ion: 75 Resp: 41264
Ion Ratio Lower Upper
75 100
77 0.0 26.1 39.1#
39 42.7 31.6 47.4





#56

Ethyl methacrylate

Concen: 0.636 ug/l

RT: 10.988 min Scan# 1536

Delta R.T. 0.111 min

Lab File: VN079368.D

Acq: 28 Sep 2023 12:52

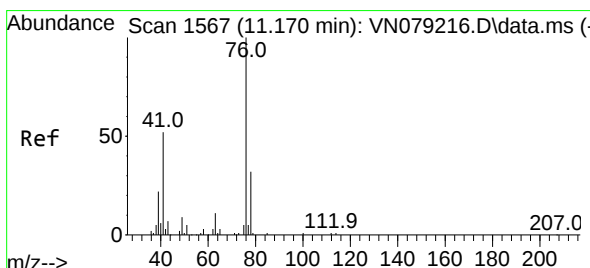
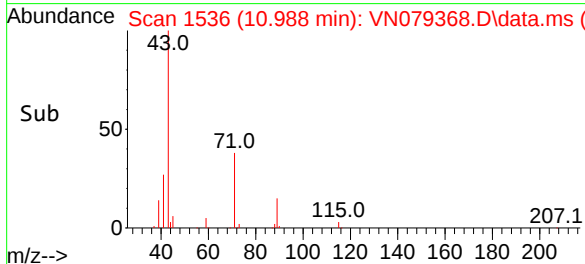
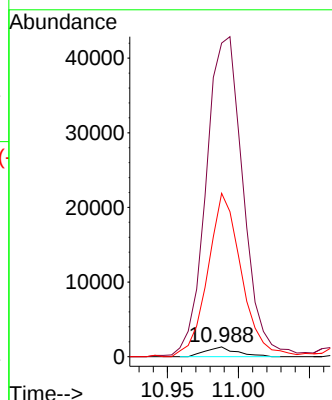
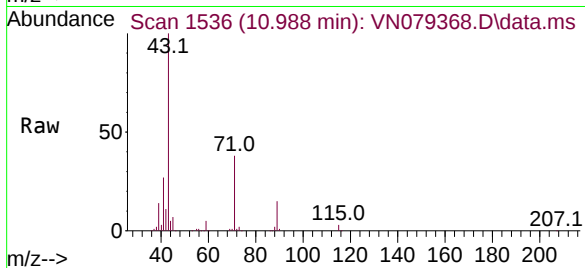
Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion: 69 Resp: 1985

Ion	Ratio	Lower	Upper
69	100		
41	3935.8	39.6	59.4#
39	1820.4	28.6	43.0#



#57

1,3-Dichloropropane

Concen: 1.216 ug/l

RT: 11.212 min Scan# 1574

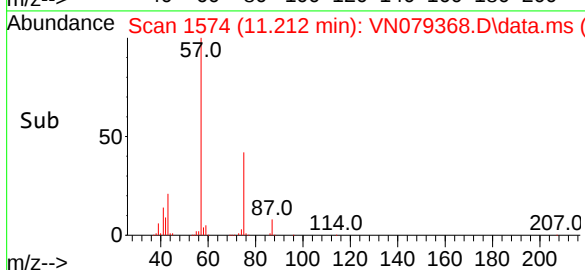
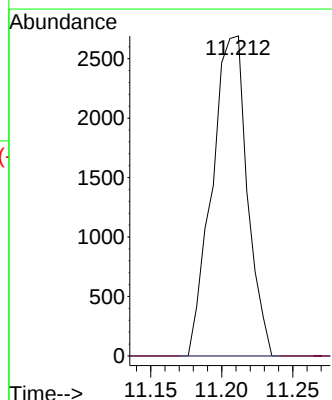
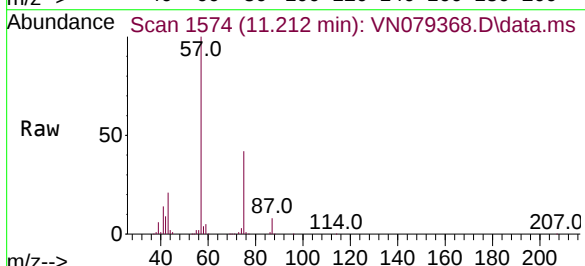
Delta R.T. 0.047 min

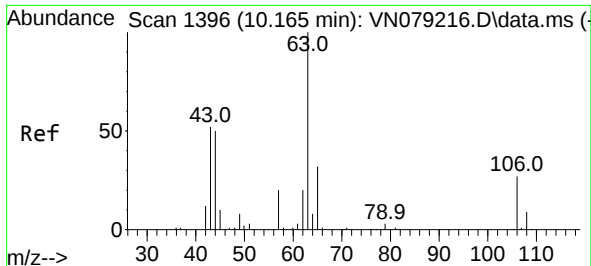
Lab File: VN079368.D

Acq: 28 Sep 2023 12:52

Tgt Ion: 76 Resp: 4647

Ion	Ratio	Lower	Upper
76	100		
78	0.0	26.1	39.1#

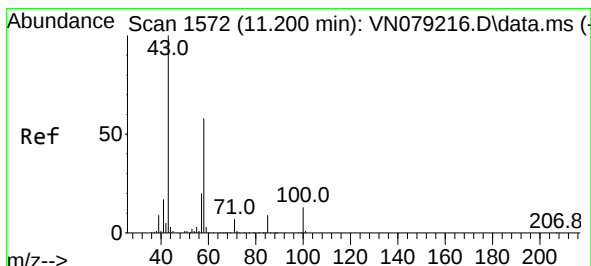
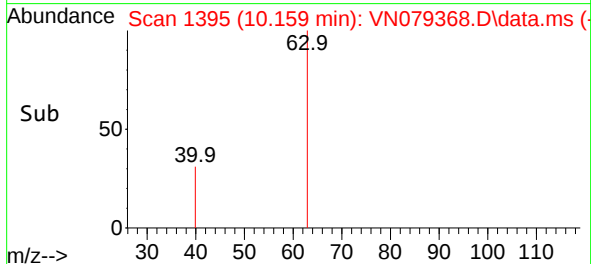
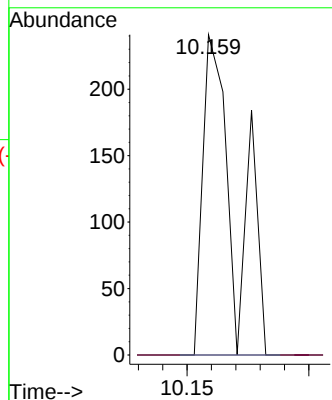
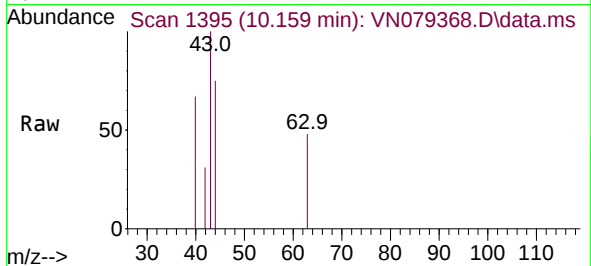




#58
2-Chloroethyl Vinyl ether
Concen: Below Cal
RT: 10.159 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN079368.D
Acq: 28 Sep 2023 12:52

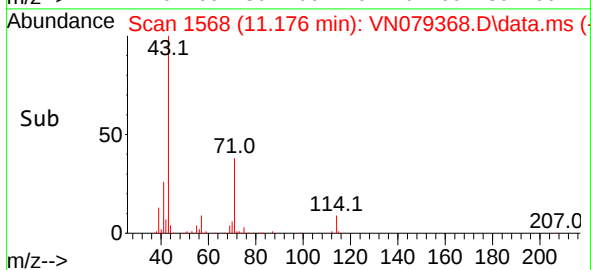
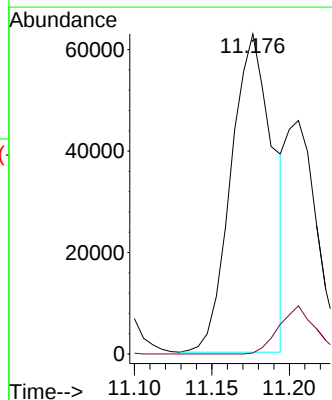
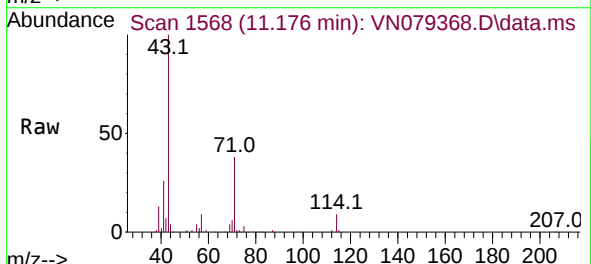
Instrument :
MSVOA_N
ClientSampleId :

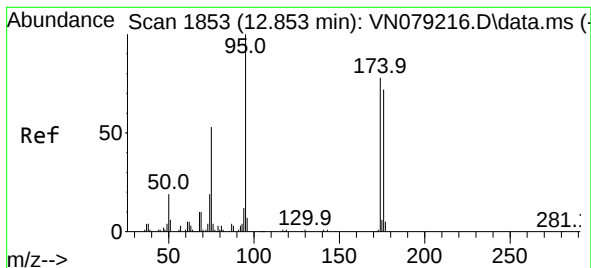
Tgt Ion: 63 Resp: 220
Ion Ratio Lower Upper
63 100
106 0.0 26.2 39.4#



#59
2-Hexanone
Concen: 57.683 ug/l
RT: 11.176 min Scan# 1568
Delta R.T. -0.024 min
Lab File: VN079368.D
Acq: 28 Sep 2023 12:52

Tgt Ion: 43 Resp: 118243
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#

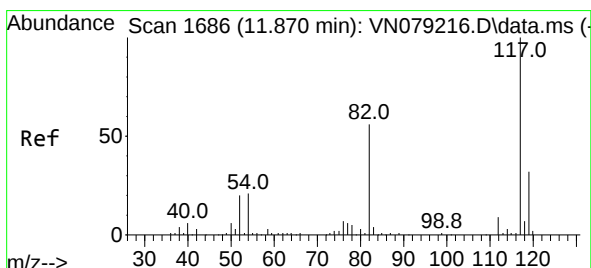
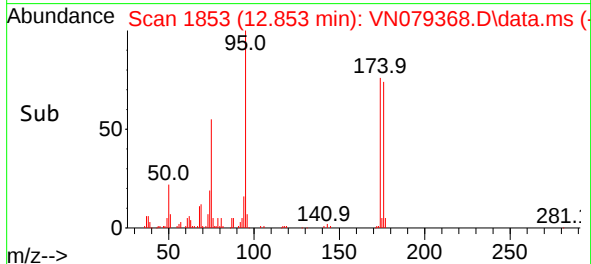
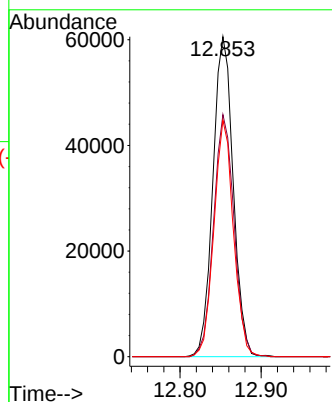
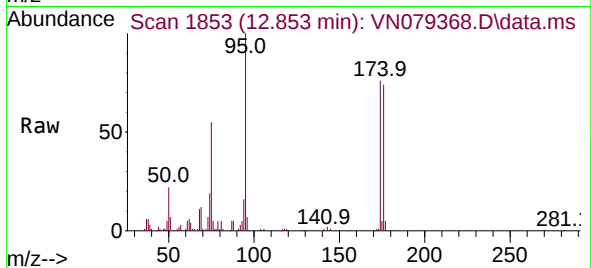




#62
4-Bromofluorobenzene
Concen: 46.221 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN079368.D
Acq: 28 Sep 2023 12:52

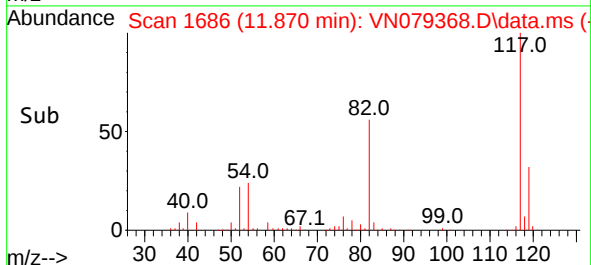
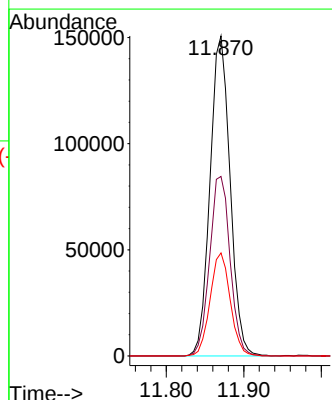
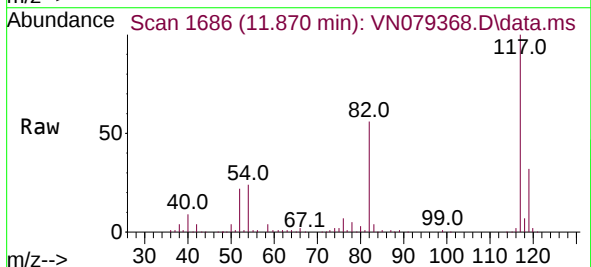
Instrument :
MSVOA_N
ClientSampleId :

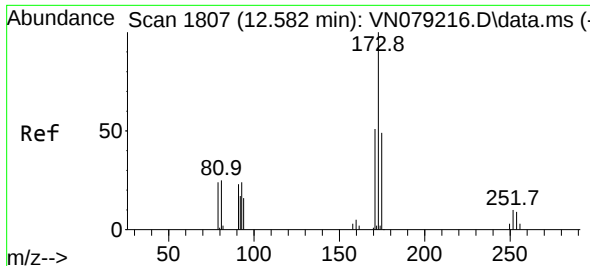
Tgt Ion: 95 Resp: 105215
Ion Ratio Lower Upper
95 100
174 76.1 0.0 143.8
176 71.2 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. -0.001 min
Lab File: VN079368.D
Acq: 28 Sep 2023 12:52

Tgt Ion: 117 Resp: 271083
Ion Ratio Lower Upper
117 100
82 56.1 44.0 66.0
119 32.2 25.6 38.4

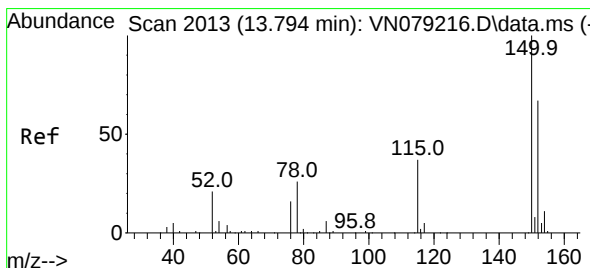
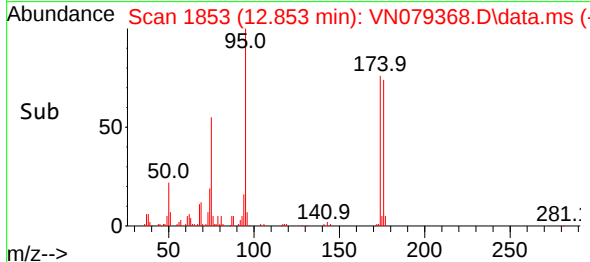
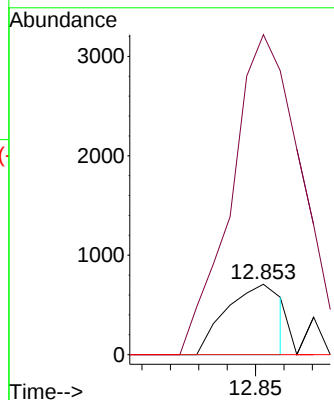
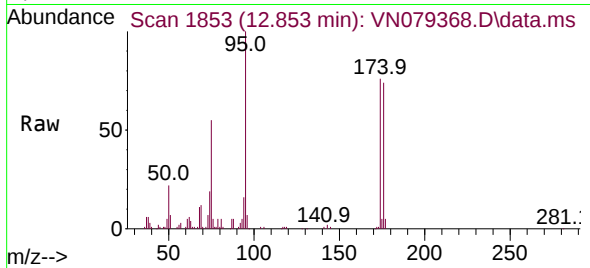




#71
Bromoform
Concen: 0.564 ug/l
RT: 12.853 min Scan# 1807
Delta R.T. 0.271 min
Lab File: VN079368.D
Acq: 28 Sep 2023 12:52

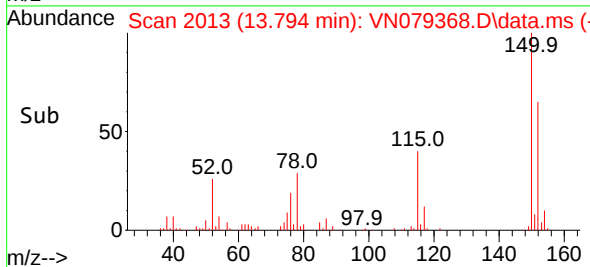
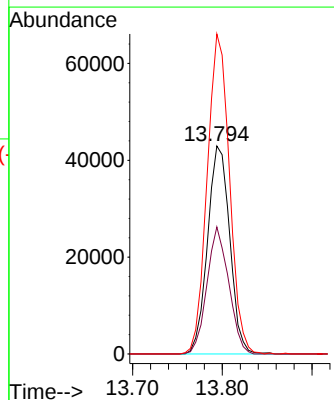
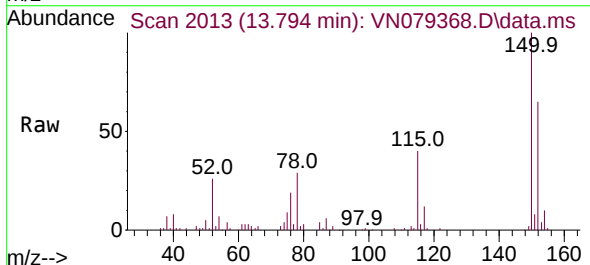
Instrument :
MSVOA_N
ClientSampleId :

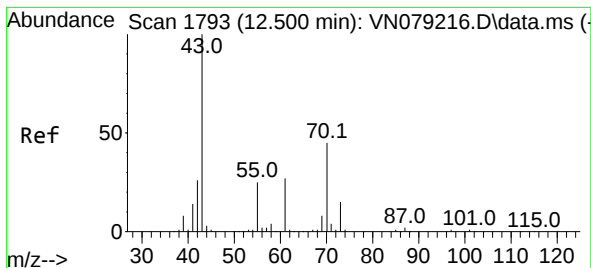
Tgt Ion:173 Resp: 958
Ion Ratio Lower Upper
173 100
175 429.3 24.3 73.0#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN079368.D
Acq: 28 Sep 2023 12:52

Tgt Ion:152 Resp: 73818
Ion Ratio Lower Upper
152 100
115 59.7 32.3 96.8
150 154.3 0.0 355.8





#74

N-amy1 acetate

Concen: 0.559 ug/l

RT: 12.500 min Scan# 1

Delta R.T. -0.000 min

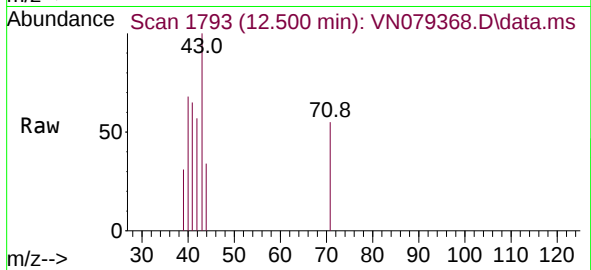
Lab File: VN079368.D

Acq: 28 Sep 2023 12:52

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 43 Resp: 1424

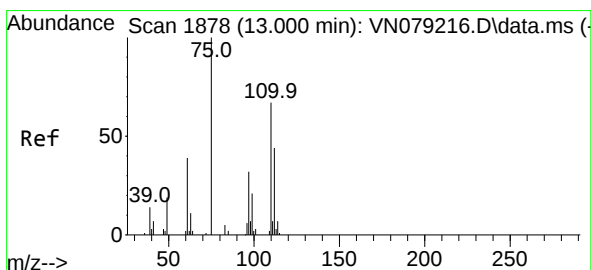
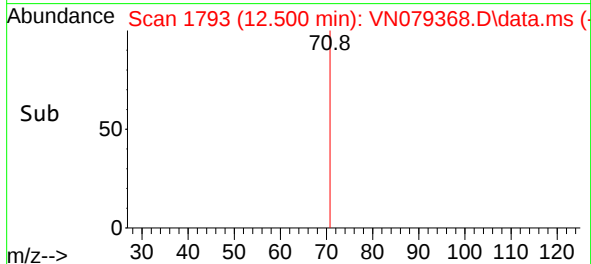
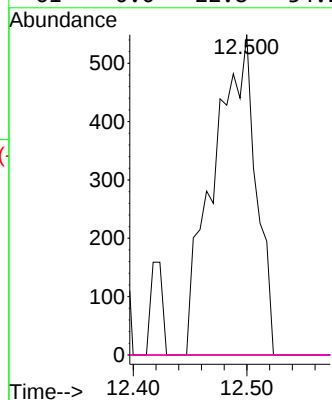
Ion Ratio Lower Upper

43 100

70 0.0 43.4 65.2#

55 0.0 21.4 32.0#

61 0.0 22.8 34.2#



#76

1,2,3-Trichloropropane

Concen: 30.376 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN079368.D

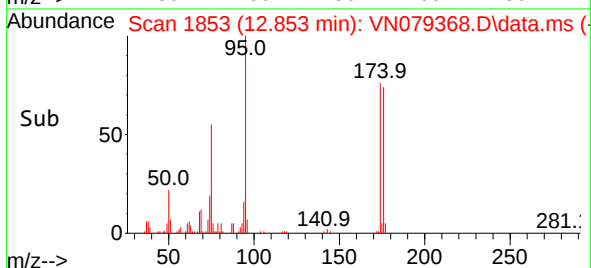
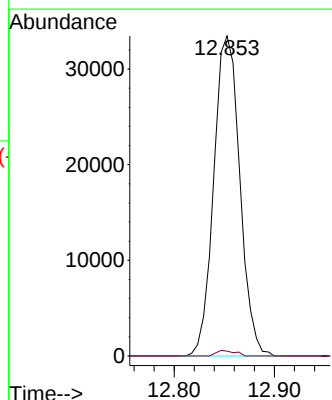
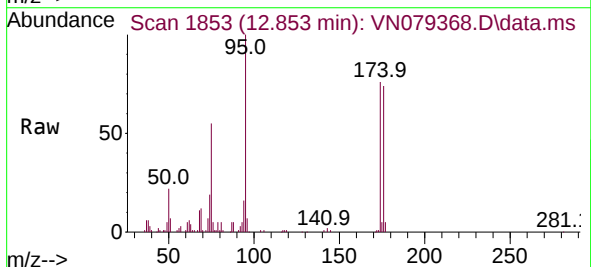
Acq: 28 Sep 2023 12:52

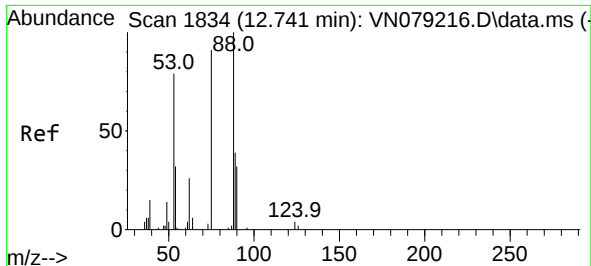
Tgt Ion: 75 Resp: 60432

Ion Ratio Lower Upper

75 100

77 1.2 84.5 253.5#

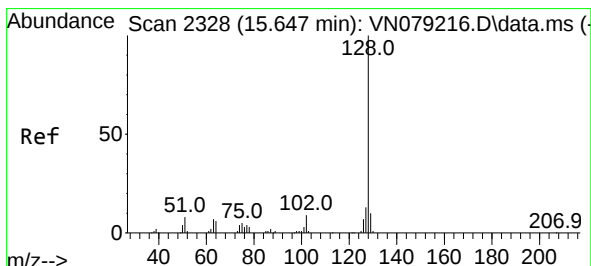
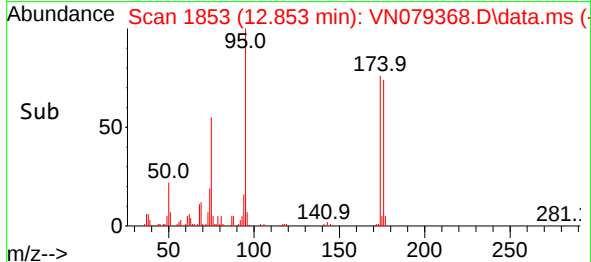
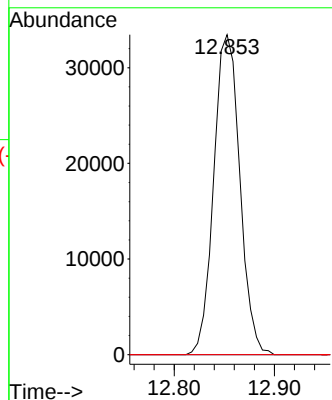
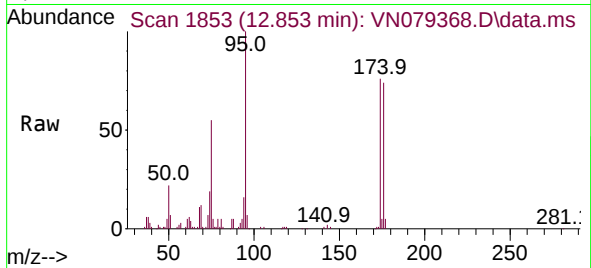




#81
trans-1,4-Dichloro-2-butene
Concen: 83.509 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN079368.D
Acq: 28 Sep 2023 12:52

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 60432
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#



#95
Naphthalene
Concen: 0.435 ug/l
RT: 15.647 min Scan# 2328
Delta R.T. -0.000 min
Lab File: VN079368.D
Acq: 28 Sep 2023 12:52

Tgt Ion:128 Resp: 1278
Ion Ratio Lower Upper
128 100
127 0.0 10.0 15.0#
129 0.0 8.7 13.1#

