

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021423\
 Data File : VN076659.D
 Acq On : 14 Feb 2023 14:05
 Operator : JC\MD
 Sample : 01541-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ASH

Quant Time: Feb 14 15:23:17 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021323W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 14 01:44:47 2023
 Response via : Initial Calibration

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

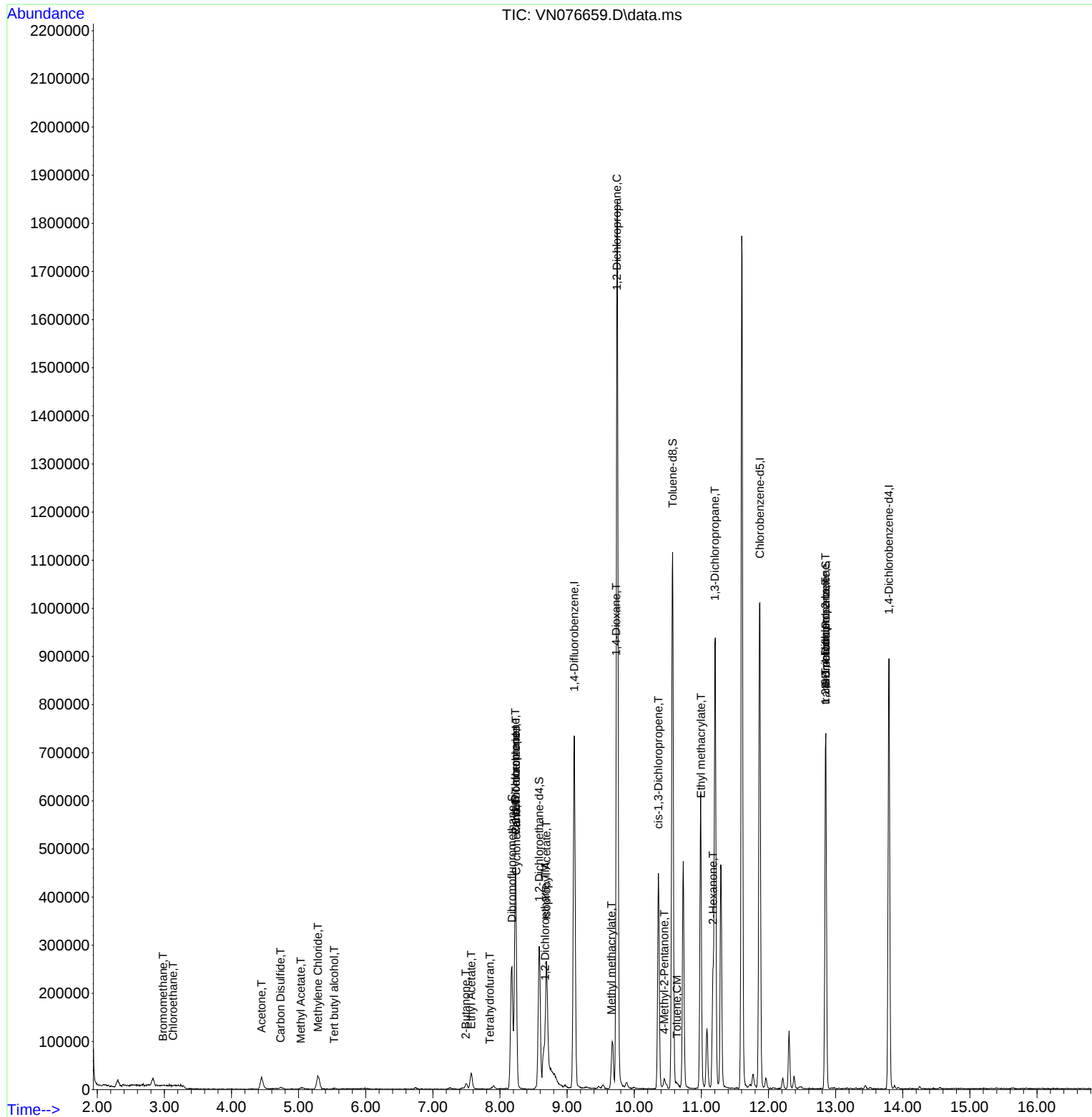
Internal Standards						
1) Pentafluorobenzene	8.236	168	330754	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	615138	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	582596	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	229092	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	230768	50.527	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 101.060%	
35) Dibromofluoromethane	8.177	113	183676	45.595	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 91.180%	
50) Toluene-d8	10.571	98	761763	50.634	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 101.260%	
62) 4-Bromofluorobenzene	12.854	95	241963	48.560	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 97.120%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.978	94	840	0.307	ug/l	87
6) Chloroethane	3.131	64	941	0.330	ug/l #	44
11) Tert butyl alcohol	5.531	59	2104	3.490	ug/l #	94
16) Acetone	4.448	43	45591	22.347	ug/l	94
17) Carbon Disulfide	4.731	76	2619	0.291	ug/l #	73
18) Methyl Acetate	5.031	43	2640	0.396	ug/l #	43
20) Methylene Chloride	5.289	84	20279	4.743	ug/l	96
25) 2-Butanone	7.489	43	18300	6.081	ug/l	95
29) Tetrahydrofuran	7.848	42	585	0.298	ug/l #	67
31) Cyclohexane	8.242	56	9229	1.288	ug/l #	50
36) 1,1-Dichloropropene	8.230	75	29014	4.985	ug/l #	49
37) Ethyl Acetate	7.572	43	50339	8.220	ug/l	97
38) Carbon Tetrachloride	8.236	117	35117	5.981	ug/l #	16
42) 1,2-Dichloroethane	8.672	62	1271	0.204	ug/l #	74
43) Isopropyl Acetate	8.689	43	366734	36.803	ug/l #	78
45) 1,2-Dichloropropane	9.742	63	2213	0.468	ug/l #	44
48) Methyl methacrylate	9.660	41	7335	1.551	ug/l #	47
49) 1,4-Dioxane	9.730	88	200	2.445	ug/l #	23
51) 4-Methyl-2-Pentanone	10.448	43	21286	3.357	ug/l #	81
52) Toluene	10.636	92	4585	0.425	ug/l	92
54) cis-1,3-Dichloropropene	10.360	75	72299	10.708	ug/l #	64
56) Ethyl methacrylate	10.995	69	2781	0.450	ug/l #	1
57) 1,3-Dichloropropane	11.201	76	9189	1.219	ug/l #	42
59) 2-Hexanone	11.171	43	200128	43.778	ug/l #	27
71) Bromoform	12.854	173	2875	0.874	ug/l #	1
76) 1,2,3-Trichloropropane	12.848	75	129671	27.997	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.848	75	129671	81.543	ug/l #	4

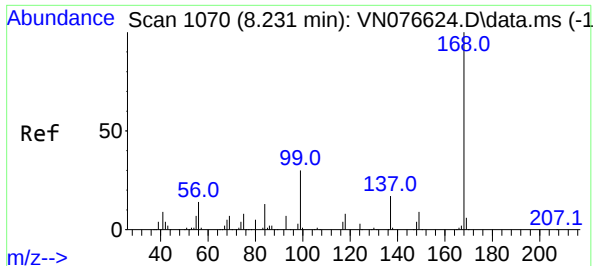
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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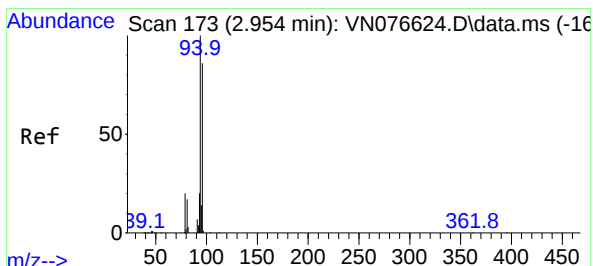
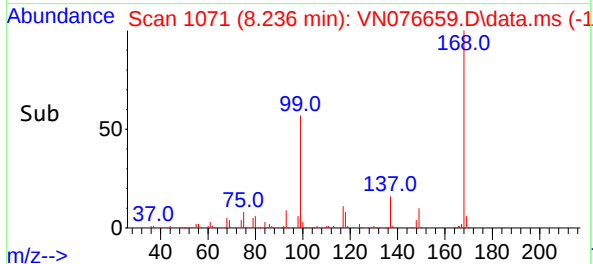
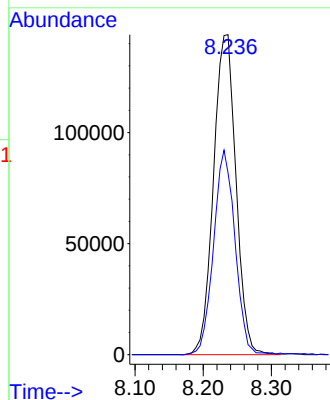
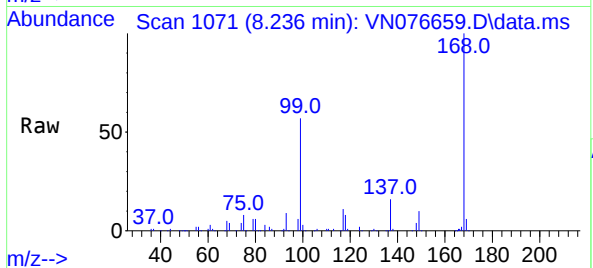




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 11
Delta R.T. 0.005 min
Lab File: VN076659.D
Acq: 14 Feb 2023 14:05

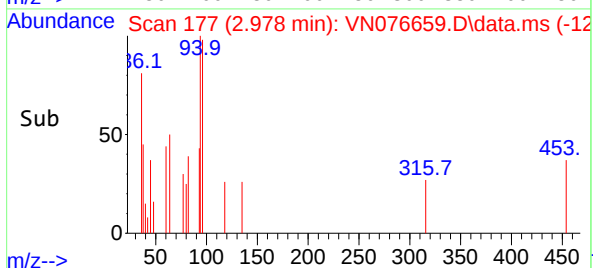
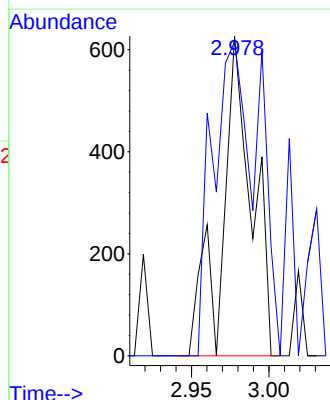
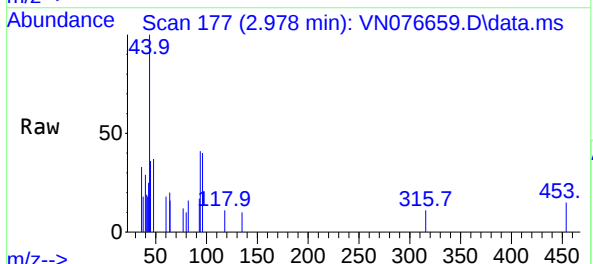
Instrument :
MSVOA_N
ClientSampleId :
ASH

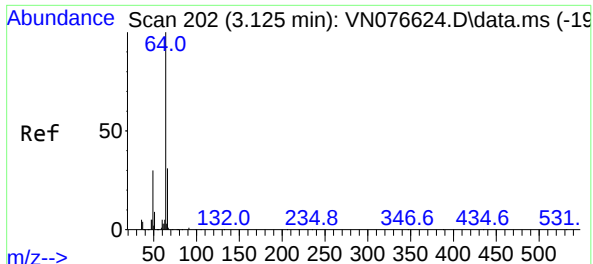
Tgt Ion:168 Resp: 330754
Ion Ratio Lower Upper
168 100
99 56.8 44.8 67.2



#5
Bromomethane
Concen: 0.307 ug/l
RT: 2.978 min Scan# 177
Delta R.T. 0.024 min
Lab File: VN076659.D
Acq: 14 Feb 2023 14:05

Tgt Ion: 94 Resp: 840
Ion Ratio Lower Upper
94 100
96 98.2 69.0 103.4

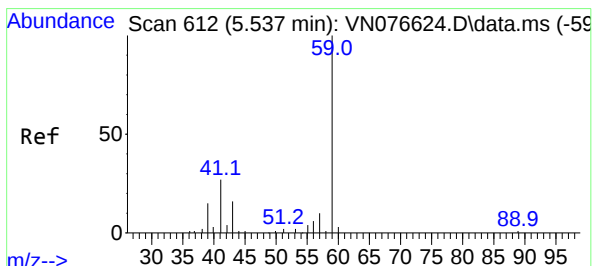
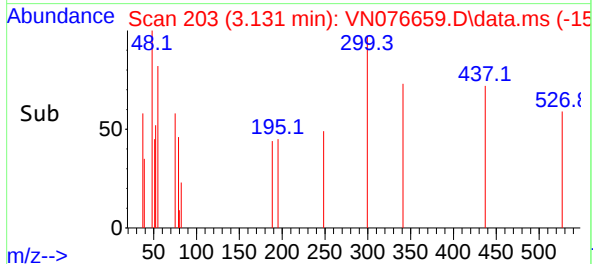
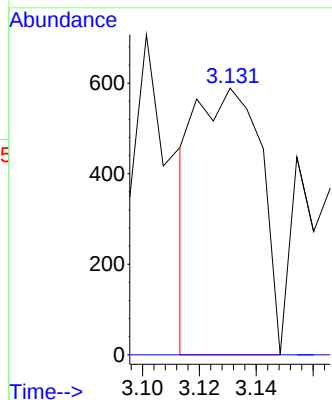
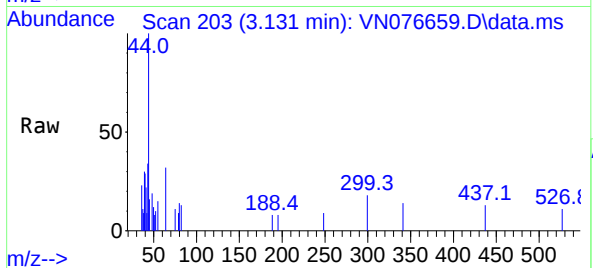




#6
Chloroethane
Concen: 0.330 ug/l
RT: 3.131 min Scan# 20
Delta R.T. 0.006 min
Lab File: VN076659.D
Acq: 14 Feb 2023 14:05

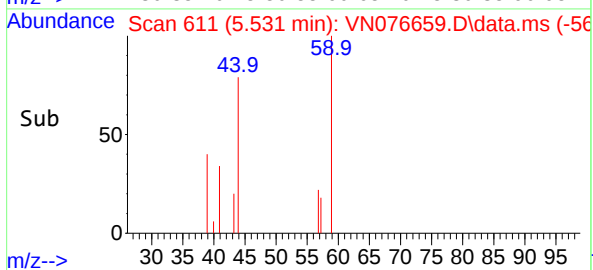
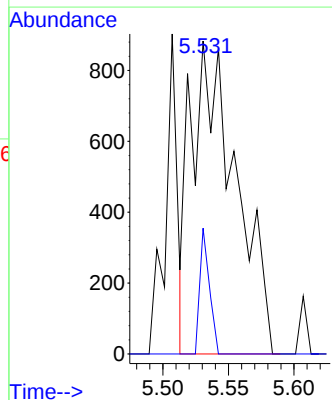
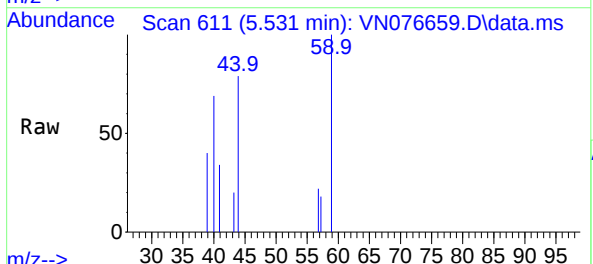
Instrument :
MSVOA_N
ClientSampleId :
ASH

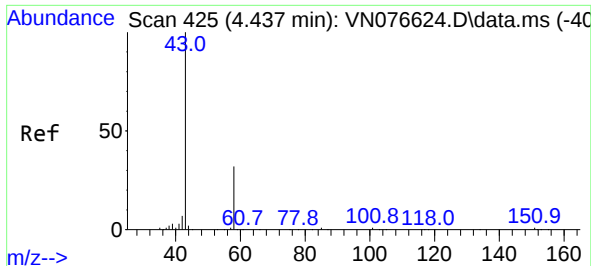
Tgt Ion: 64 Resp: 941
Ion Ratio Lower Upper
64 100
66 0.0 24.6 37.0#



#11
Tert butyl alcohol
Concen: 3.490 ug/l
RT: 5.531 min Scan# 611
Delta R.T. -0.006 min
Lab File: VN076659.D
Acq: 14 Feb 2023 14:05

Tgt Ion: 59 Resp: 2104
Ion Ratio Lower Upper
59 100
57 8.6 8.7 13.1#

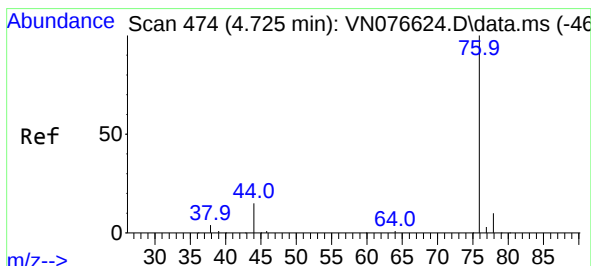
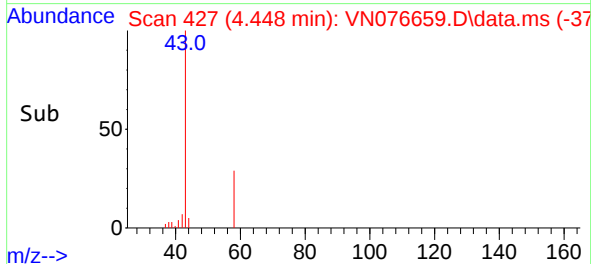
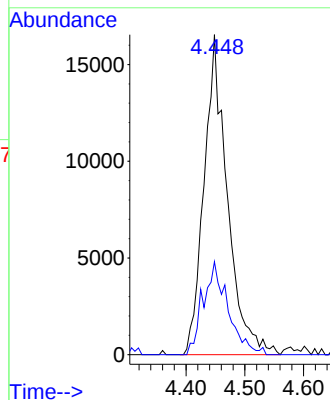
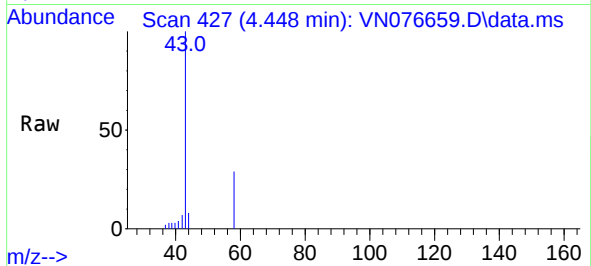




#16
Acetone
Concen: 22.347 ug/l
RT: 4.448 min Scan# 41
Delta R.T. 0.011 min
Lab File: VN076659.D
Acq: 14 Feb 2023 14:05

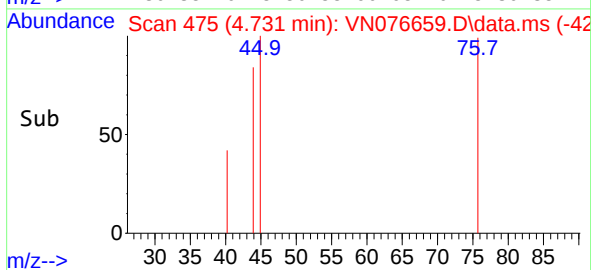
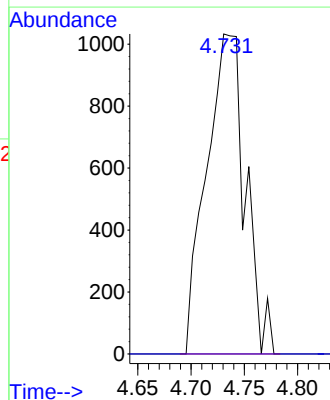
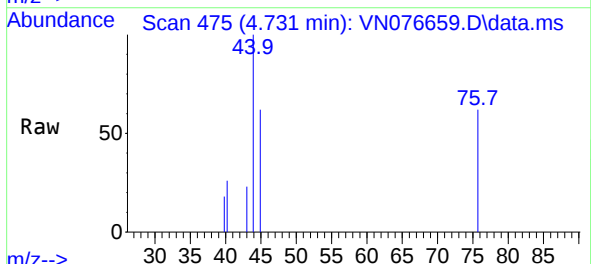
Instrument :
MSVOA_N
ClientSampleId :
ASH

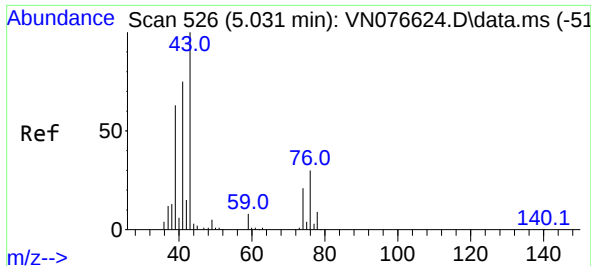
Tgt Ion: 43 Resp: 45591
Ion Ratio Lower Upper
43 100
58 29.1 25.9 38.9



#17
Carbon Disulfide
Concen: 0.291 ug/l
RT: 4.731 min Scan# 475
Delta R.T. 0.006 min
Lab File: VN076659.D
Acq: 14 Feb 2023 14:05

Tgt Ion: 76 Resp: 2619
Ion Ratio Lower Upper
76 100
78 0.0 7.8 11.8#

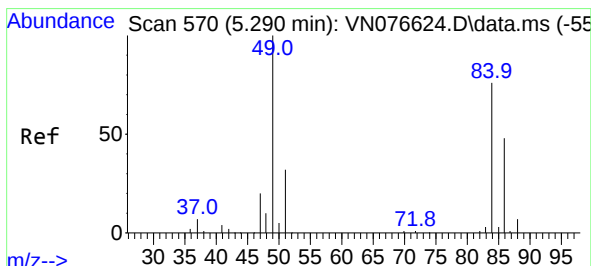
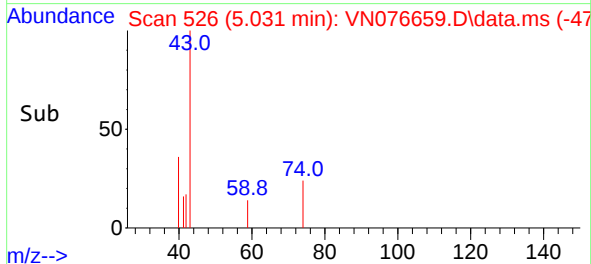
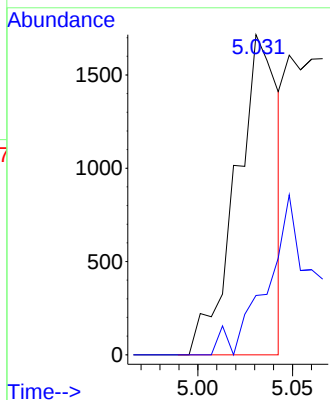
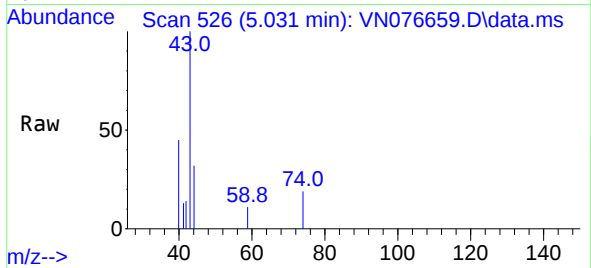




#18
Methyl Acetate
Concen: 0.396 ug/l
RT: 5.031 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN076659.D
Acq: 14 Feb 2023 14:05

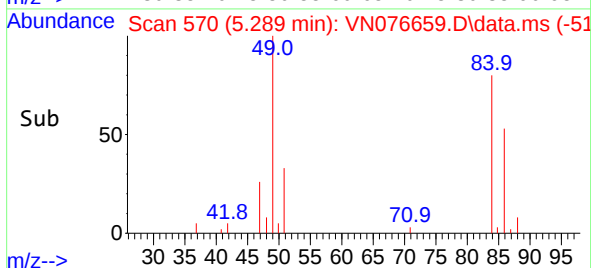
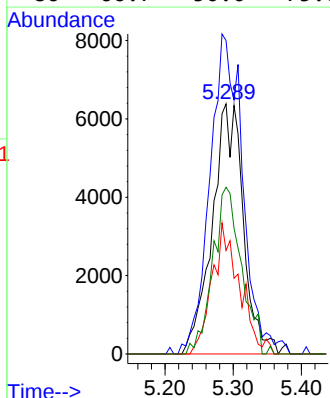
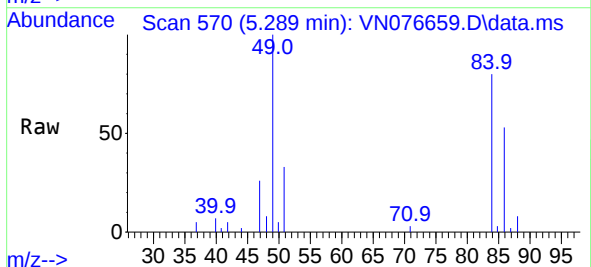
Instrument :
MSVOA_N
ClientSampleId :
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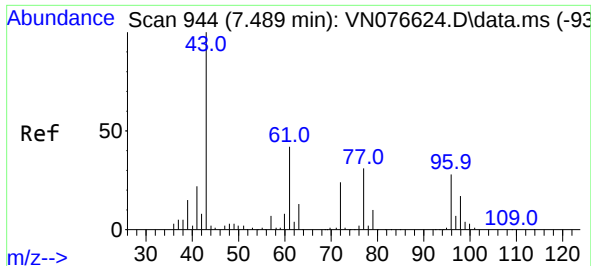
Tgt Ion: 43 Resp: 2640
Ion Ratio Lower Upper
43 100
74 49.5 17.7 26.5#



#20
Methylene Chloride
Concen: 4.743 ug/l
RT: 5.289 min Scan# 570
Delta R.T. -0.000 min
Lab File: VN076659.D
Acq: 14 Feb 2023 14:05

Tgt Ion: 84 Resp: 20279
Ion Ratio Lower Upper
84 100
49 125.3 104.9 157.3
51 41.4 33.8 50.8
86 66.7 50.0 75.0

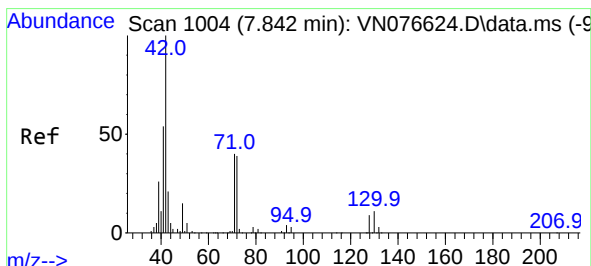
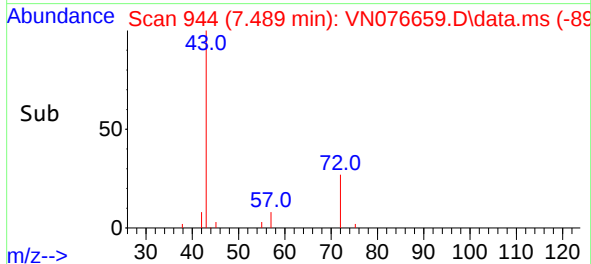
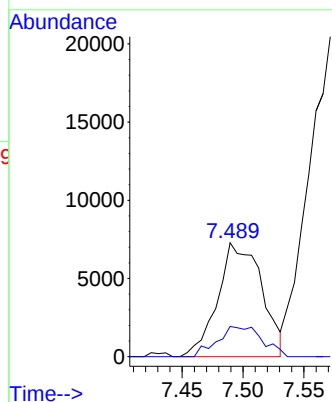
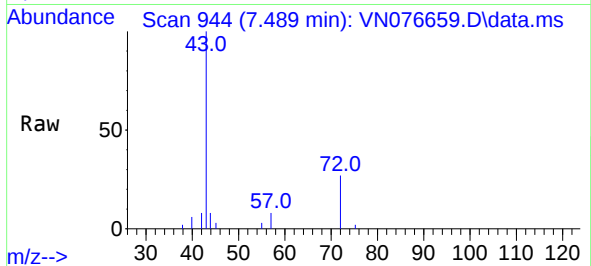




#25
2-Butanone
Concen: 6.081 ug/l
RT: 7.489 min Scan# 944
Delta R.T. -0.000 min
Lab File: VN076659.D
Acq: 14 Feb 2023 14:05

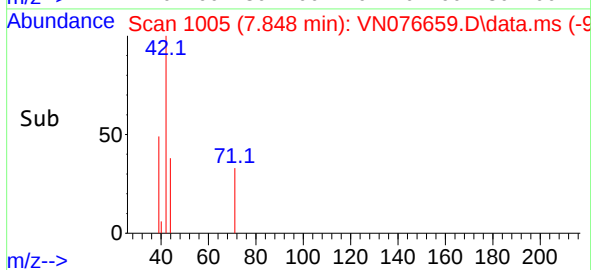
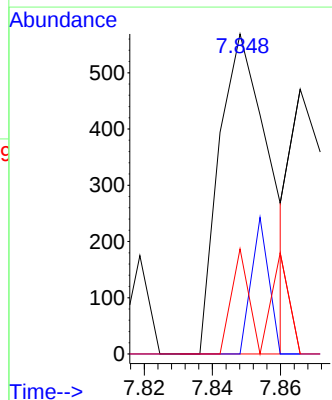
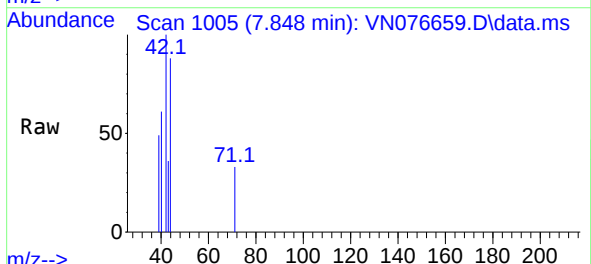
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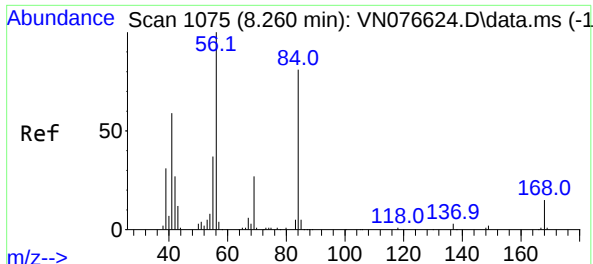
Tgt Ion: 43 Resp: 18300
Ion Ratio Lower Upper
43 100
72 26.6 19.4 29.2



#29
Tetrahydrofuran
Concen: 0.298 ug/l
RT: 7.848 min Scan# 1005
Delta R.T. 0.006 min
Lab File: VN076659.D
Acq: 14 Feb 2023 14:05

Tgt Ion: 42 Resp: 585
Ion Ratio Lower Upper
42 100
72 14.7 31.5 47.3#
71 22.2 29.8 44.8#

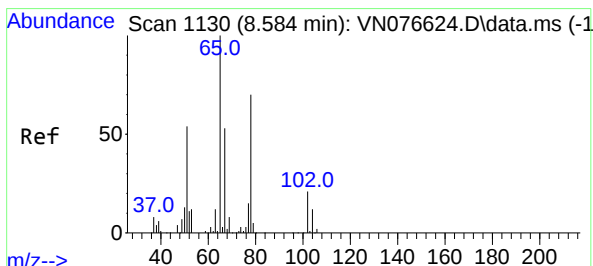
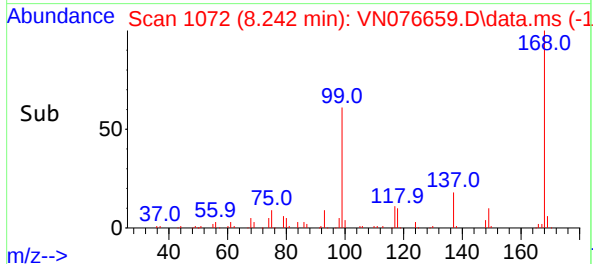
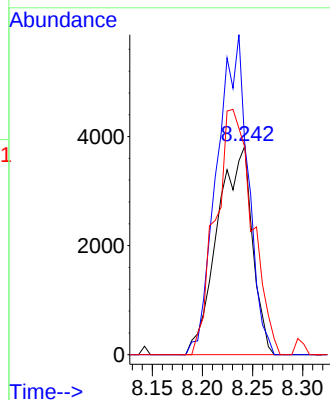
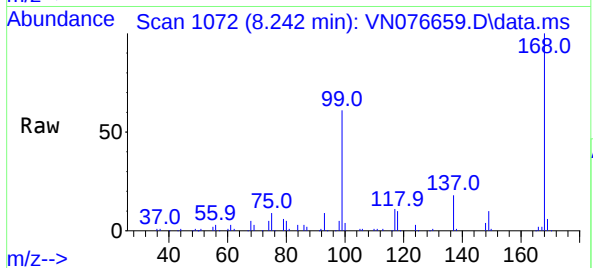




#31
Cyclohexane
Concen: 1.288 ug/l
RT: 8.242 min Scan# 1075
Delta R.T. -0.018 min
Lab File: VN076659.D
Acq: 14 Feb 2023 14:05

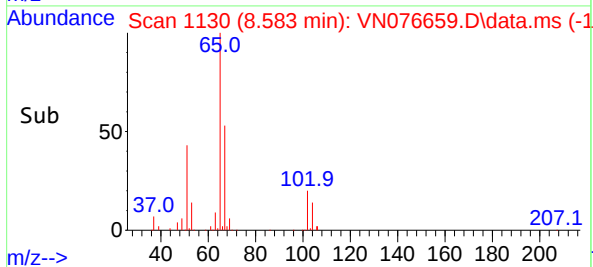
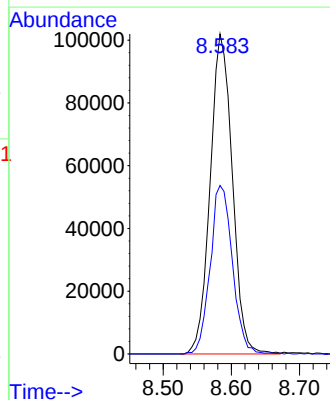
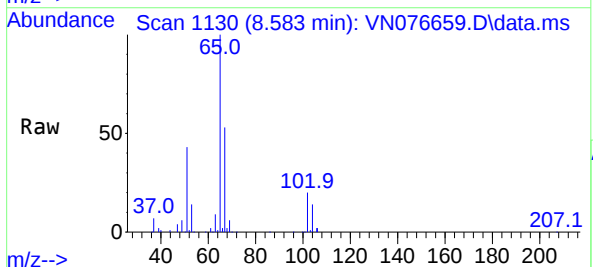
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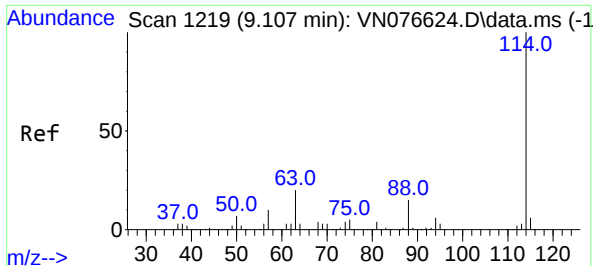
Tgt Ion: 56 Resp: 9229
Ion Ratio Lower Upper
56 100
69 100.1 21.6 32.4#
84 99.2 65.1 97.7#



#33
1,2-Dichloroethane-d4
Concen: 50.527 ug/l
RT: 8.583 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VN076659.D
Acq: 14 Feb 2023 14:05

Tgt Ion: 65 Resp: 230768
Ion Ratio Lower Upper
65 100
67 52.8 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN076659.D

Acq: 14 Feb 2023 14:05

Instrument :

MSVOA_N

ClientSampleId :

ASH

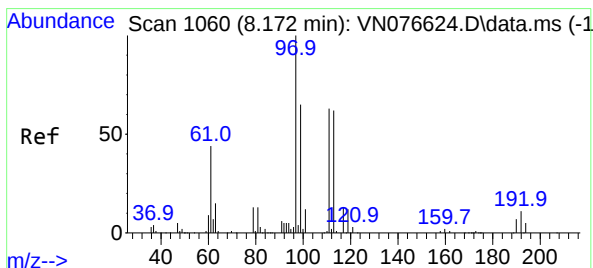
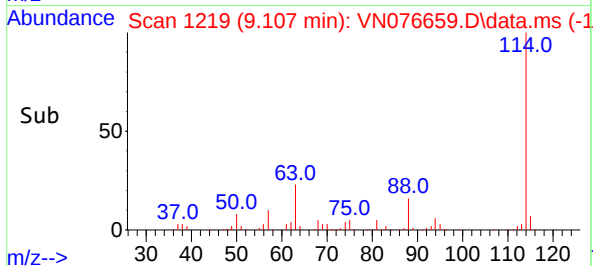
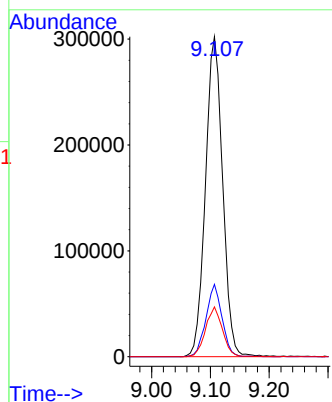
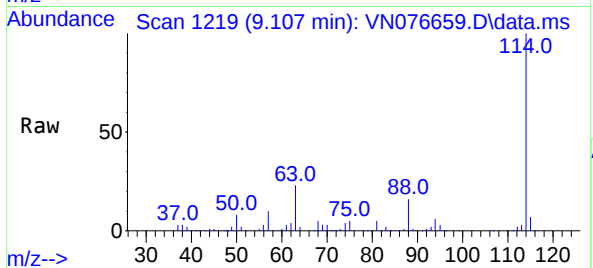
Tgt Ion:114 Resp: 615138

Ion Ratio Lower Upper

114 100

63 22.6 0.0 40.0

88 15.6 0.0 29.6



#35

Dibromofluoromethane

Concen: 45.595 ug/l

RT: 8.177 min Scan# 1061

Delta R.T. 0.006 min

Lab File: VN076659.D

Acq: 14 Feb 2023 14:05

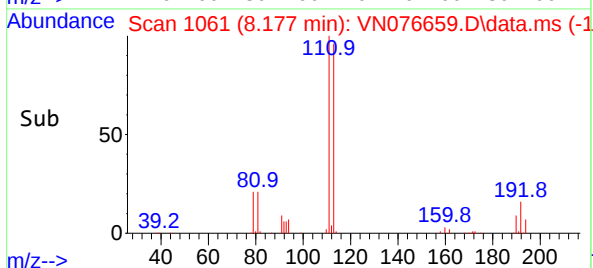
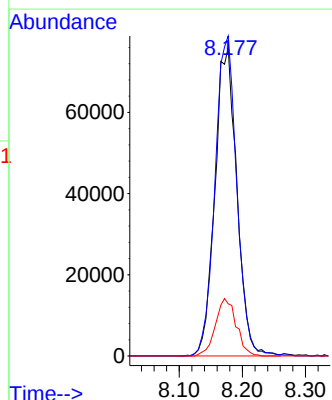
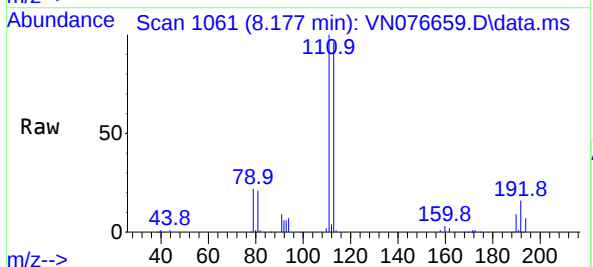
Tgt Ion:113 Resp: 183676

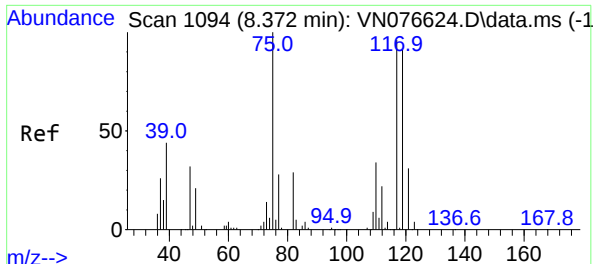
Ion Ratio Lower Upper

113 100

111 102.9 83.1 124.7

192 17.6 15.6 23.4

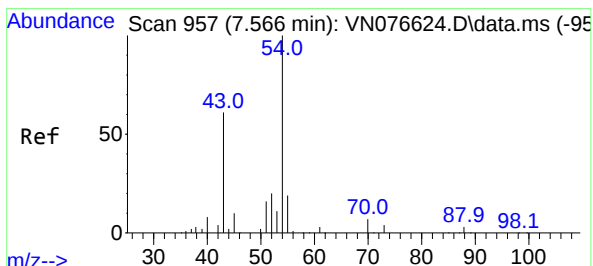
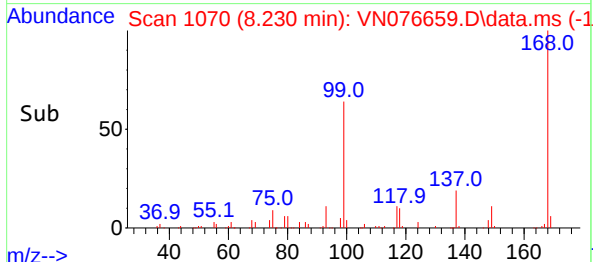
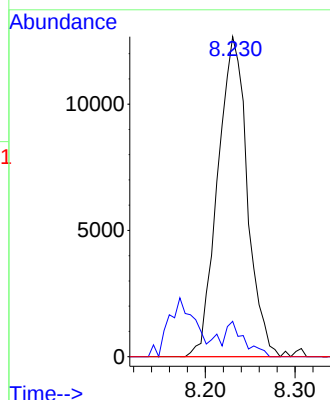
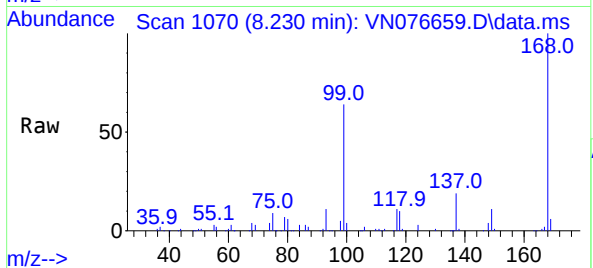




#36
1,1-Dichloropropene
Concen: 4.985 ug/l
RT: 8.230 min Scan# 1070
Delta R.T. -0.141 min
Lab File: VN076659.D
Acq: 14 Feb 2023 14:05

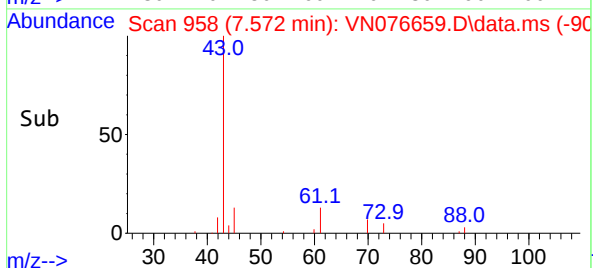
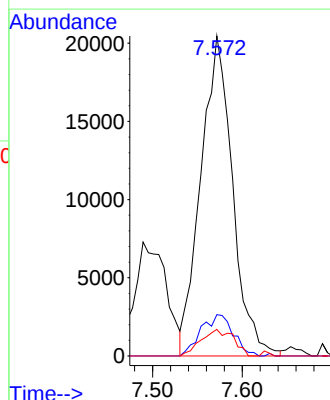
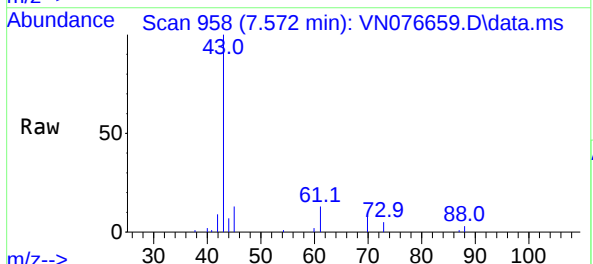
Instrument :
MSVOA_N
ClientSampleId :
ASH

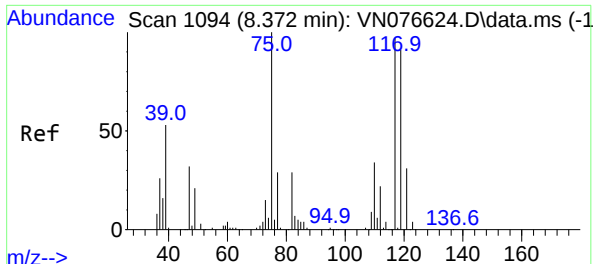
Tgt Ion: 75 Resp: 29014
Ion Ratio Lower Upper
75 100
110 8.3 17.5 52.5#
77 0.0 24.5 36.7#



#37
Ethyl Acetate
Concen: 8.220 ug/l
RT: 7.572 min Scan# 958
Delta R.T. 0.006 min
Lab File: VN076659.D
Acq: 14 Feb 2023 14:05

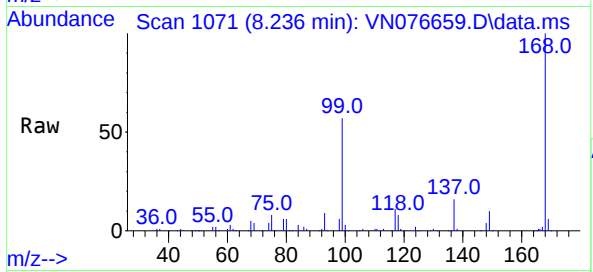
Tgt Ion: 43 Resp: 50339
Ion Ratio Lower Upper
43 100
61 13.1 9.9 14.9
70 8.4 7.8 11.6



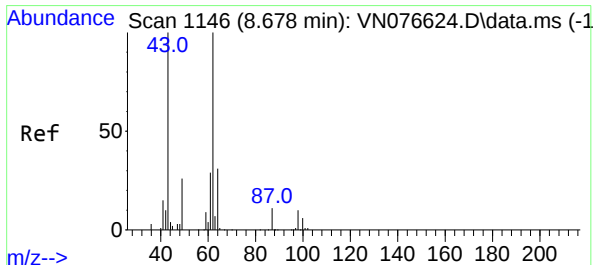
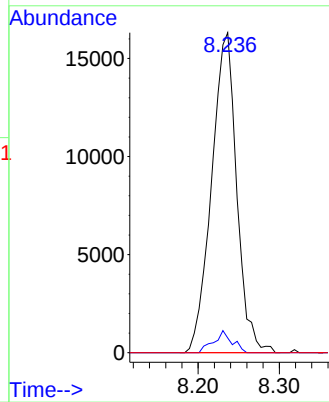
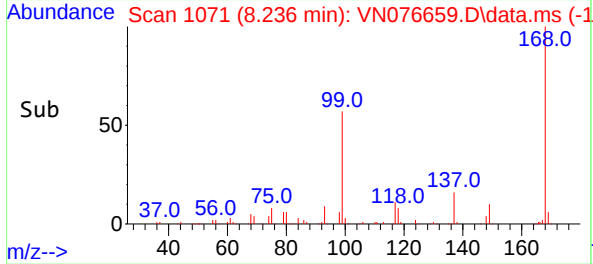


#38
Carbon Tetrachloride
Concen: 5.981 ug/l
RT: 8.236 min Scan# 1094
Delta R.T. -0.135 min
Lab File: VN076659.D
Acq: 14 Feb 2023 14:05

Instrument :
MSVOA_N
ClientSampleId :
ASH

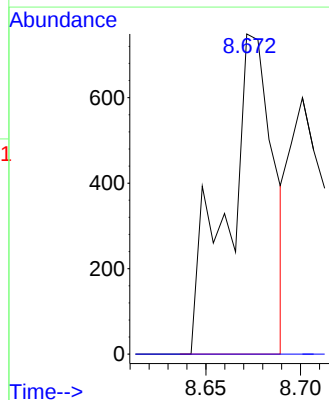
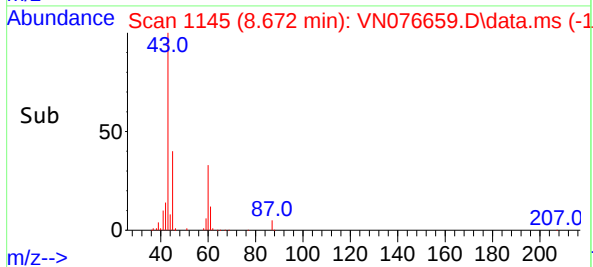
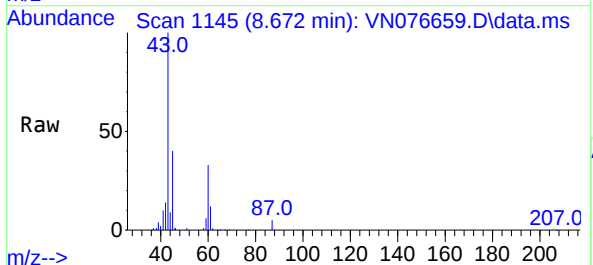


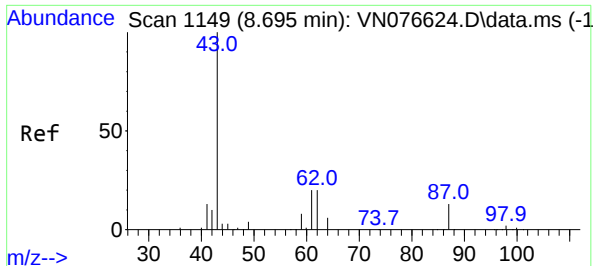
Tgt Ion:117 Resp: 35117
Ion Ratio Lower Upper
117 100
119 4.6 75.4 113.0#
121 0.0 26.0 39.0#



#42
1,2-Dichloroethane
Concen: 0.204 ug/l
RT: 8.672 min Scan# 1145
Delta R.T. -0.006 min
Lab File: VN076659.D
Acq: 14 Feb 2023 14:05

Tgt Ion: 62 Resp: 1271
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.2





#43

Isopropyl Acetate

Concen: 36.803 ug/l

RT: 8.689 min Scan# 1149

Delta R.T. -0.006 min

Lab File: VN076659.D

Acq: 14 Feb 2023 14:05

Instrument :

MSVOA_N

ClientSampleId :

ASH

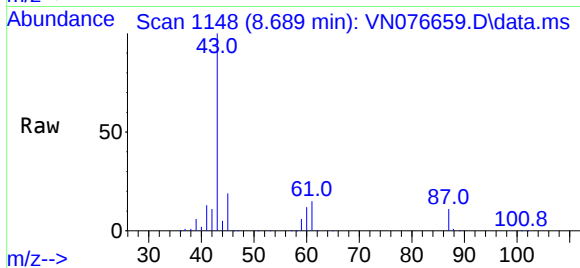
Tgt Ion: 43 Resp: 366734

Ion Ratio Lower Upper

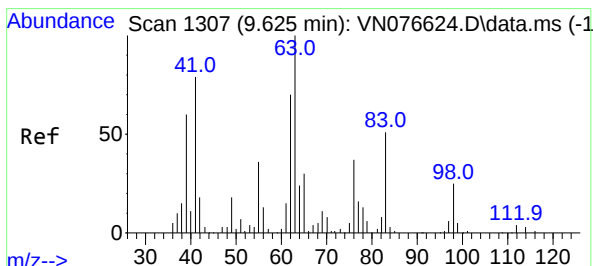
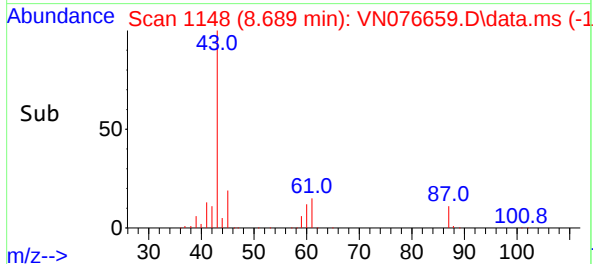
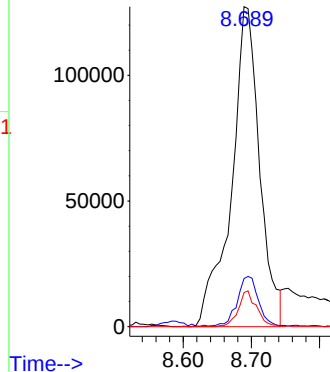
43 100

61 11.6 20.0 30.0#

87 7.2 9.9 14.9#



Abundance



#45

1,2-Dichloropropane

Concen: 0.468 ug/l

RT: 9.742 min Scan# 1327

Delta R.T. 0.117 min

Lab File: VN076659.D

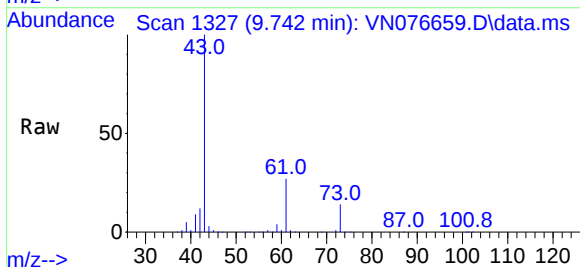
Acq: 14 Feb 2023 14:05

Tgt Ion: 63 Resp: 2213

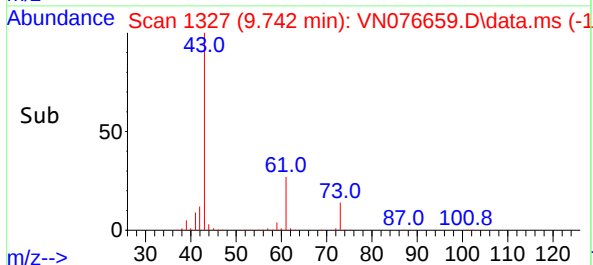
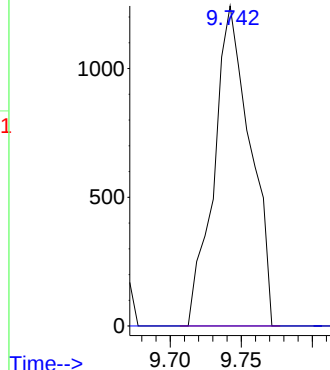
Ion Ratio Lower Upper

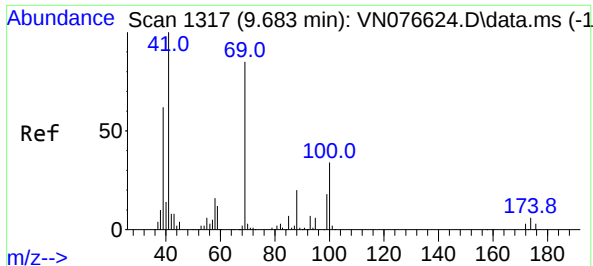
63 100

65 0.0 24.2 36.2#



Abundance

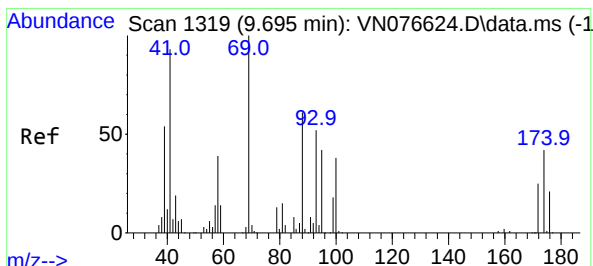
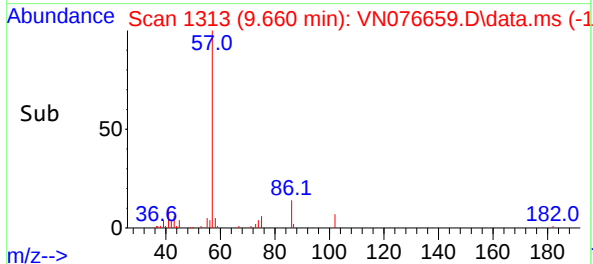
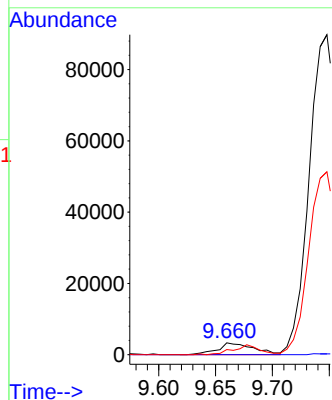
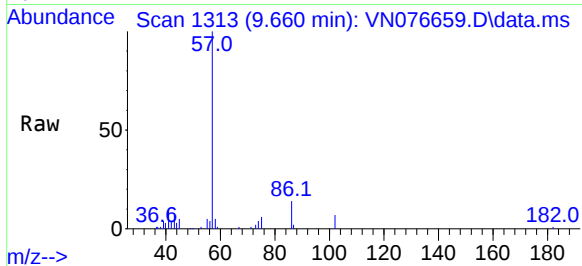




#48
Methyl methacrylate
Concen: 1.551 ug/l
RT: 9.660 min Scan# 11
Delta R.T. -0.024 min
Lab File: VN076659.D
Acq: 14 Feb 2023 14:05

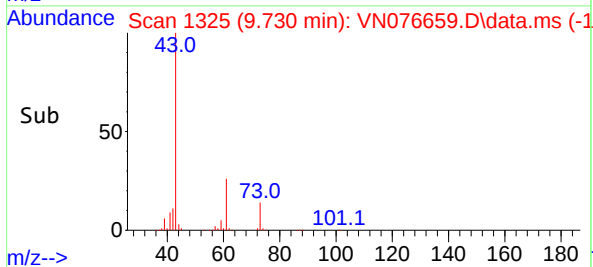
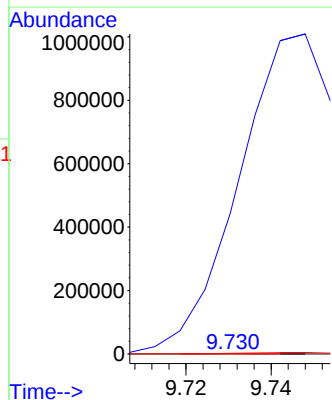
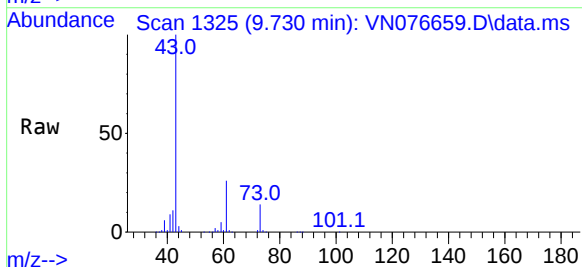
Instrument :
MSVOA_N
ClientSampleId :
ASH

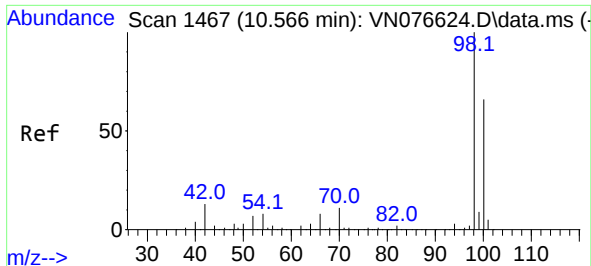
Tgt Ion: 41 Resp: 7335
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 60.2 49.3 73.9



#49
1,4-Dioxane
Concen: 2.445 ug/l
RT: 9.730 min Scan# 1325
Delta R.T. 0.035 min
Lab File: VN076659.D
Acq: 14 Feb 2023 14:05

Tgt Ion: 88 Resp: 200
Ion Ratio Lower Upper
88 100
43 0.0 22.6 33.8#
58 0.0 57.6 86.4#

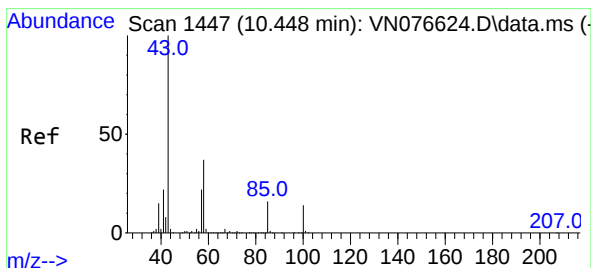
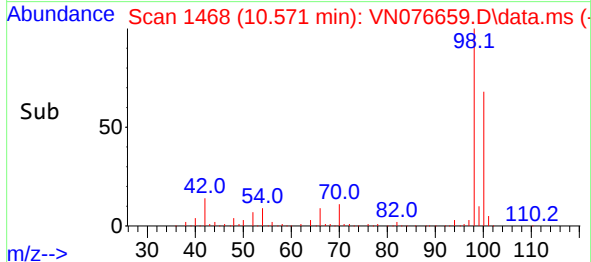
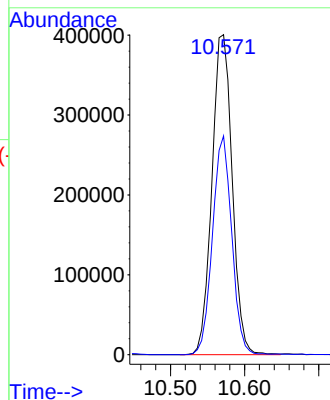
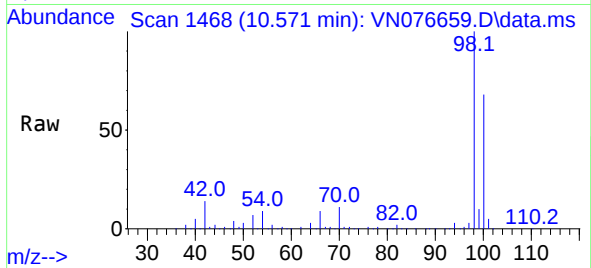




#50
Toluene-d8
Concen: 50.634 ug/l
RT: 10.571 min Scan# 1468
Delta R.T. 0.006 min
Lab File: VN076659.D
Acq: 14 Feb 2023 14:05

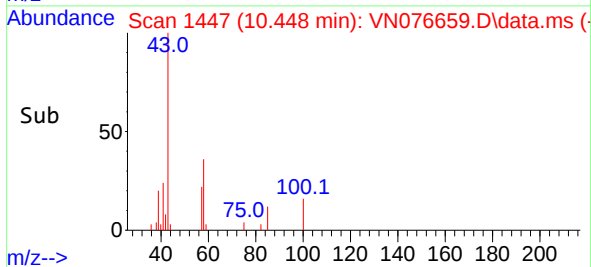
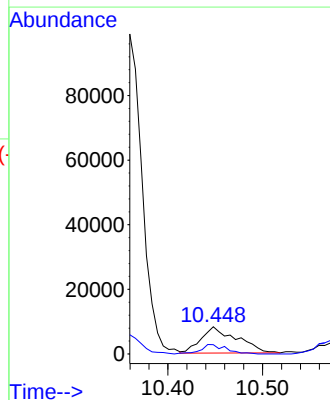
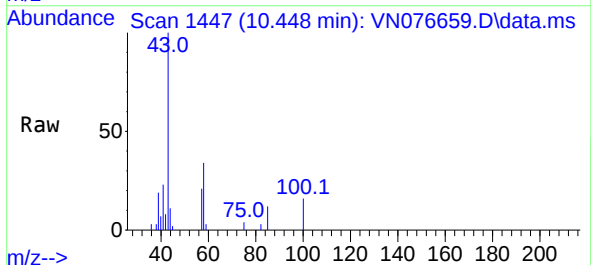
Instrument :
MSVOA_N
ClientSampleId :
ASH

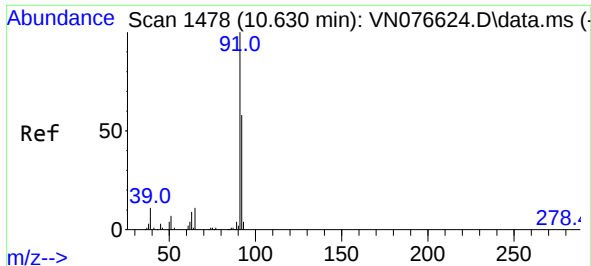
Tgt Ion: 98 Resp: 761763
Ion Ratio Lower Upper
98 100
100 64.8 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 3.357 ug/l
RT: 10.448 min Scan# 1447
Delta R.T. -0.000 min
Lab File: VN076659.D
Acq: 14 Feb 2023 14:05

Tgt Ion: 43 Resp: 21286
Ion Ratio Lower Upper
43 100
58 25.4 29.5 44.3#

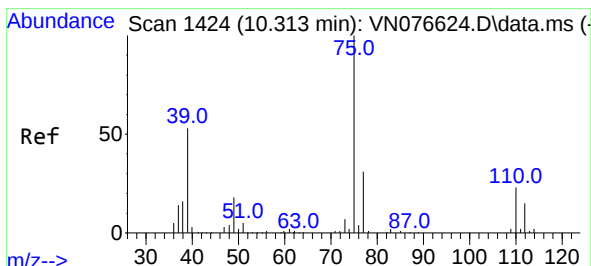
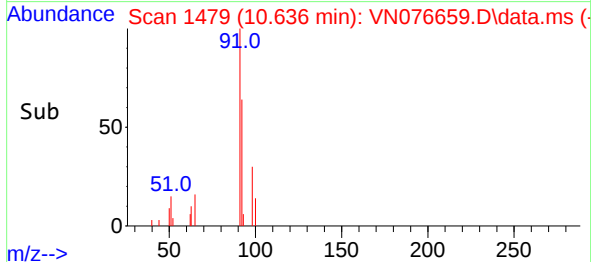
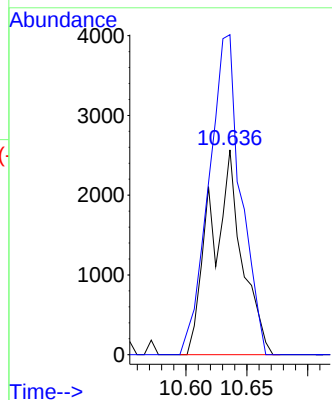
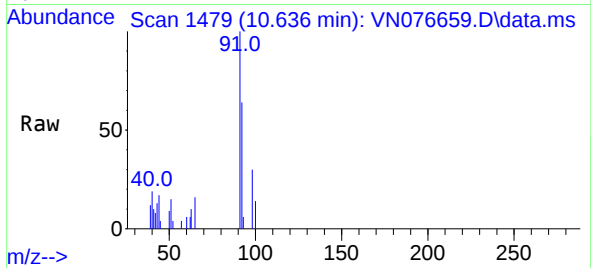




#52
Toluene
Concen: 0.425 ug/l
RT: 10.636 min Scan# 1478
Delta R.T. 0.006 min
Lab File: VN076659.D
Acq: 14 Feb 2023 14:05

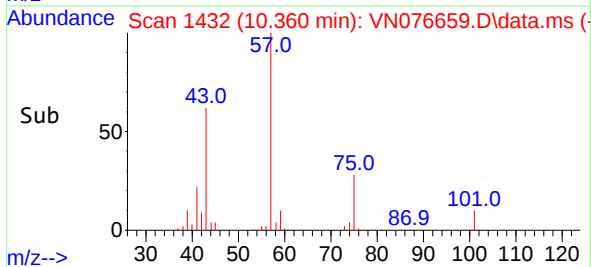
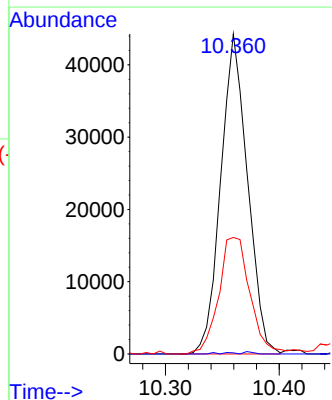
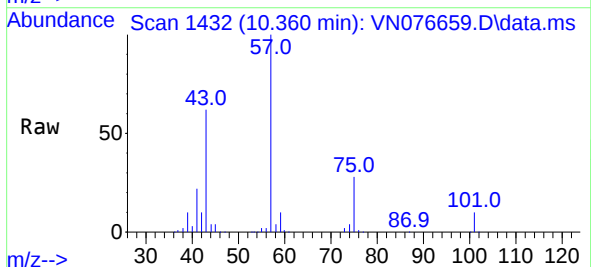
Instrument :
MSVOA_N
ClientSampleId :
ASH

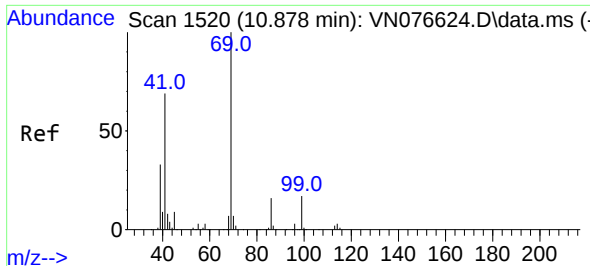
Tgt Ion: 92 Resp: 4585
Ion Ratio Lower Upper
92 100
91 161.0 138.0 207.0



#54
cis-1,3-Dichloropropene
Concen: 10.708 ug/l
RT: 10.360 min Scan# 1432
Delta R.T. 0.047 min
Lab File: VN076659.D
Acq: 14 Feb 2023 14:05

Tgt Ion: 75 Resp: 72299
Ion Ratio Lower Upper
75 100
77 0.4 25.1 37.7#
39 36.4 42.3 63.5#

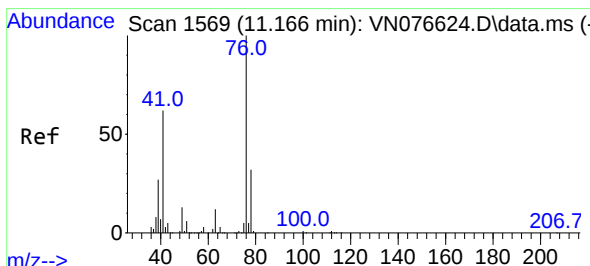
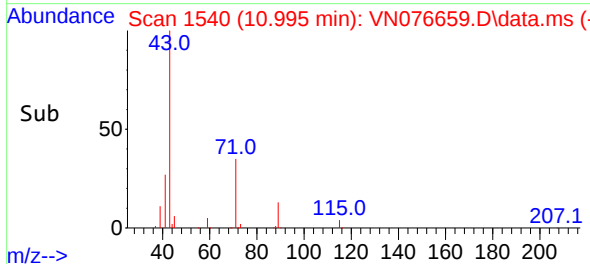
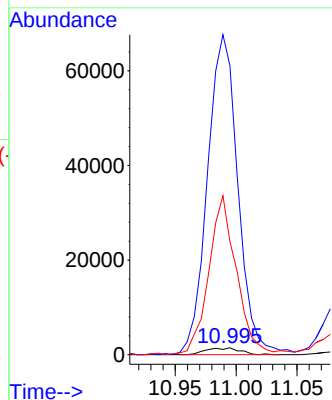
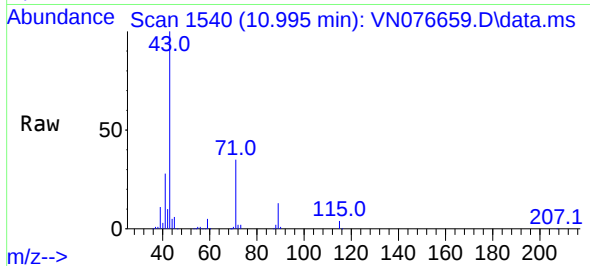




#56
Ethyl methacrylate
Concen: 0.450 ug/l
RT: 10.995 min Scan# 11
Delta R.T. 0.117 min
Lab File: VN076659.D
Acq: 14 Feb 2023 14:05

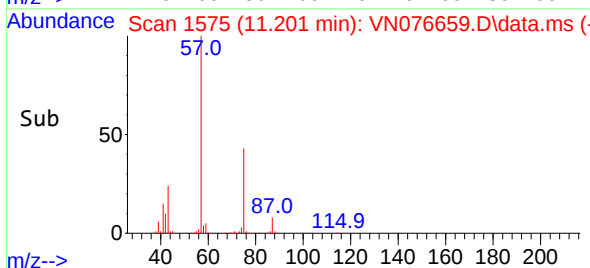
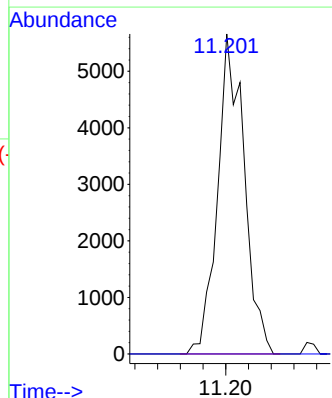
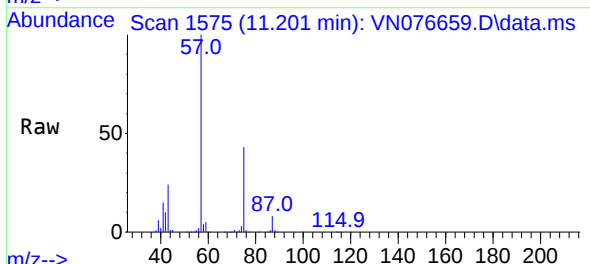
Instrument :
MSVOA_N
ClientSampleId :
ASH

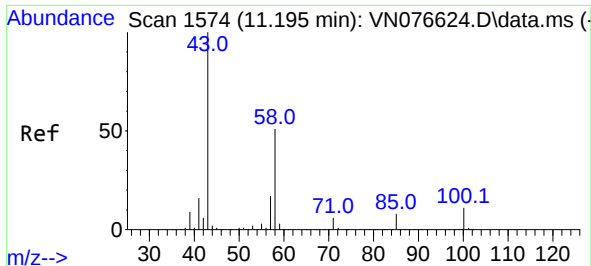
Tgt Ion: 69 Resp: 2781
Ion Ratio Lower Upper
69 100
41 4252.4 55.1 82.7#
39 1928.7 30.7 46.1#



#57
1,3-Dichloropropane
Concen: 1.219 ug/l
RT: 11.201 min Scan# 1575
Delta R.T. 0.035 min
Lab File: VN076659.D
Acq: 14 Feb 2023 14:05

Tgt Ion: 76 Resp: 9189
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

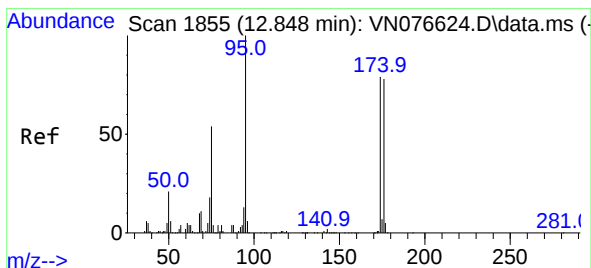
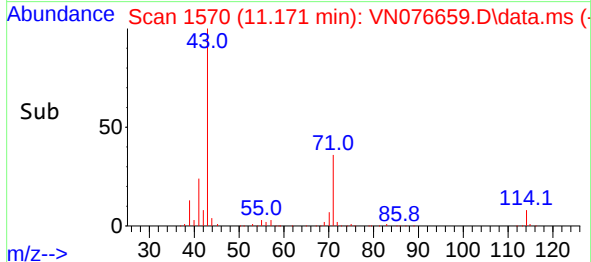
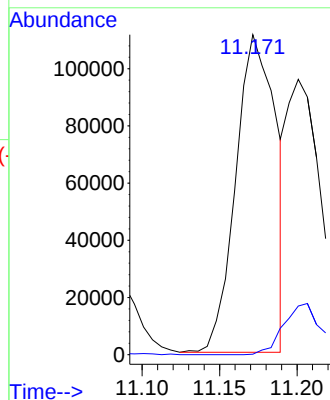
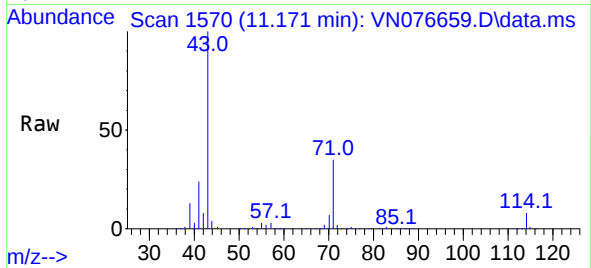




#59
2-Hexanone
Concen: 43.778 ug/l
RT: 11.171 min Scan# 11170
Delta R.T. -0.024 min
Lab File: VN076659.D
Acq: 14 Feb 2023 14:05

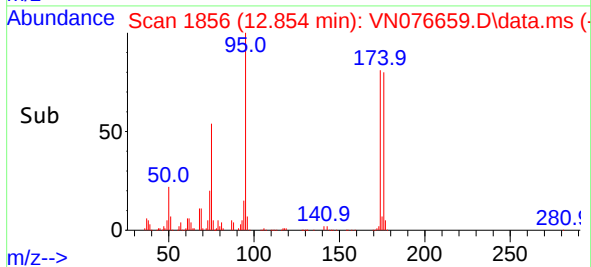
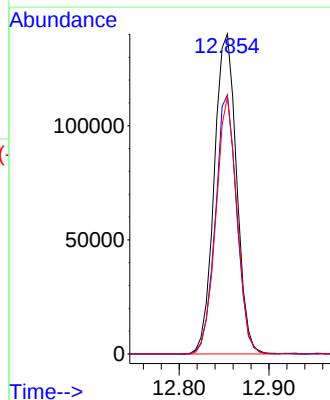
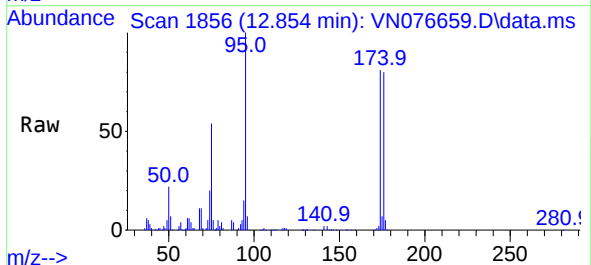
Instrument :
MSVOA_N
ClientSampleId :
ASH

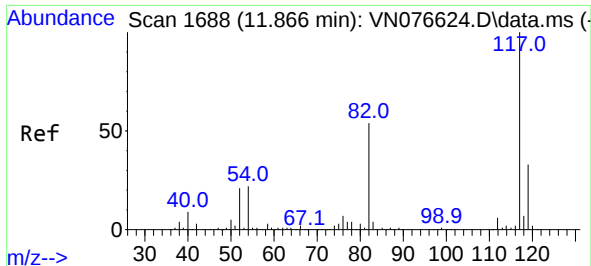
Tgt Ion: 43 Resp: 200128
Ion Ratio Lower Upper
43 100
58 0.0 25.4 76.0#



#62
4-Bromofluorobenzene
Concen: 48.560 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN076659.D
Acq: 14 Feb 2023 14:05

Tgt Ion: 95 Resp: 241963
Ion Ratio Lower Upper
95 100
174 77.7 0.0 169.2
176 75.9 0.0 163.4

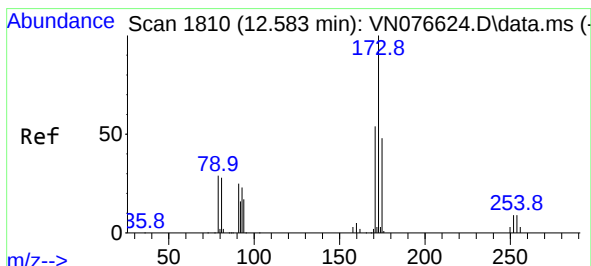
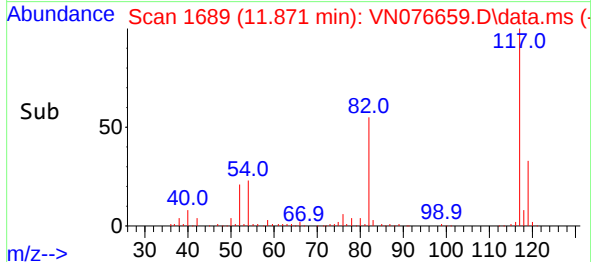
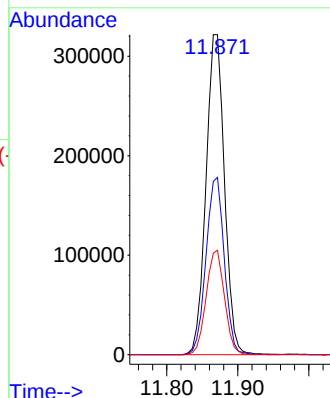
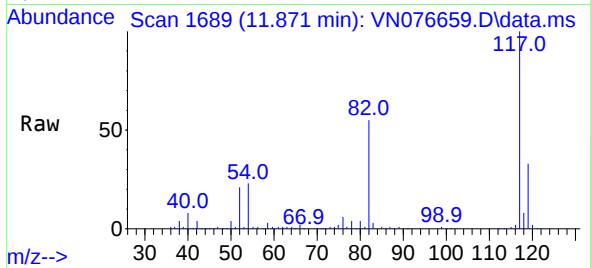




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN076659.D
Acq: 14 Feb 2023 14:05

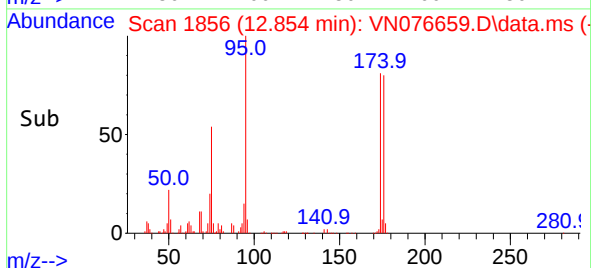
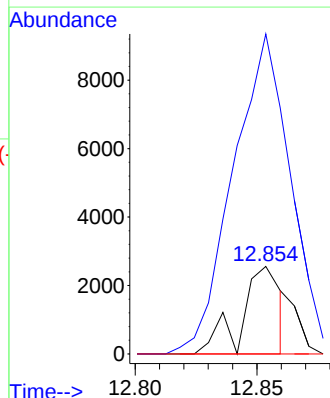
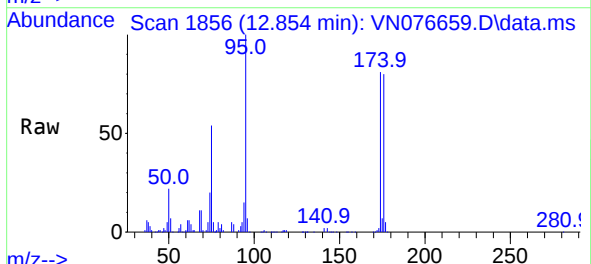
Instrument :
MSVOA_N
ClientSampleId :
ASH

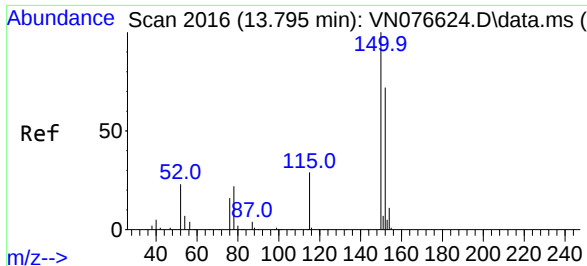
Tgt Ion:117 Resp: 582596
Ion Ratio Lower Upper
117 100
82 55.3 43.4 65.2
119 32.7 26.1 39.1



#71
Bromoform
Concen: 0.874 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.270 min
Lab File: VN076659.D
Acq: 14 Feb 2023 14:05

Tgt Ion:173 Resp: 2875
Ion Ratio Lower Upper
173 100
175 443.9 24.9 74.7#
254 0.0 0.1 0.1#

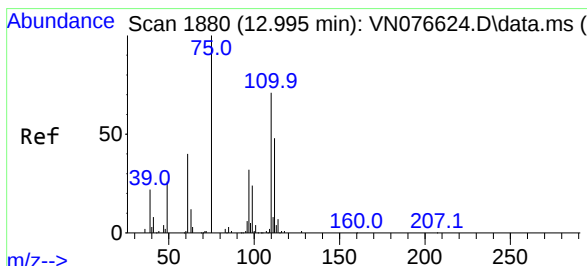
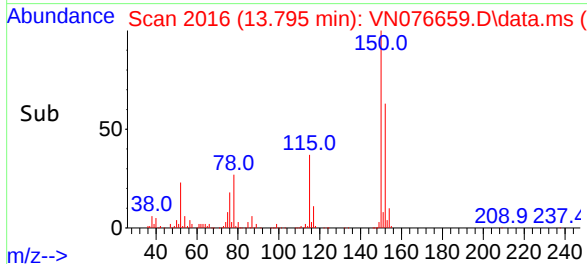
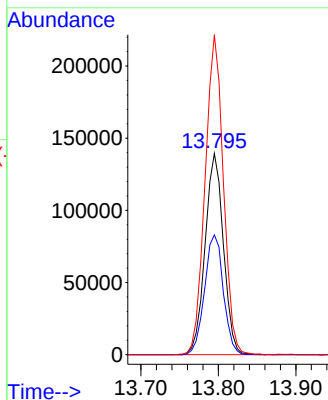
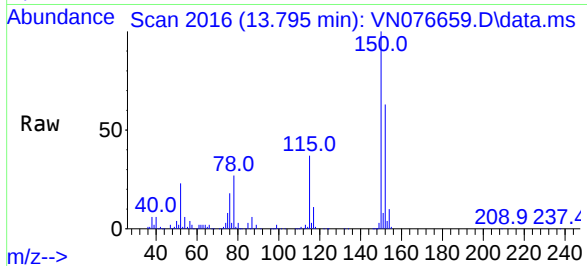




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN076659.D
Acq: 14 Feb 2023 14:05

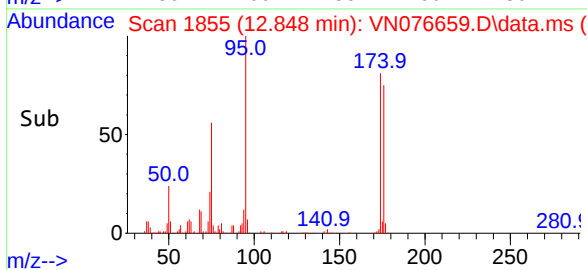
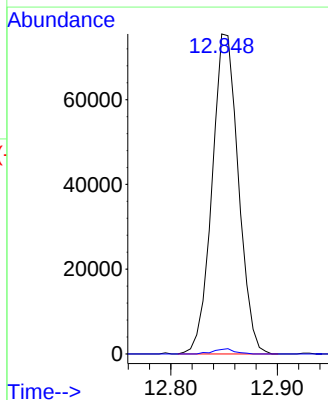
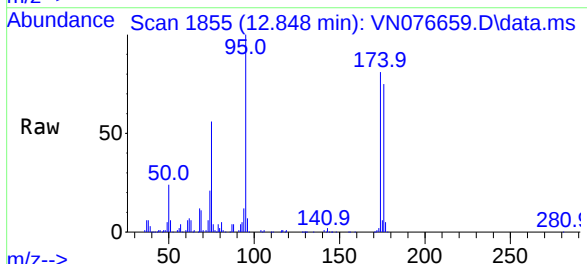
Instrument :
MSVOA_N
ClientSampleId :
ASH

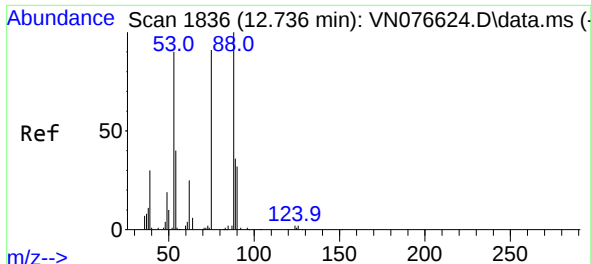
Tgt Ion:152 Resp: 229092
Ion Ratio Lower Upper
152 100
115 60.9 29.3 87.9
150 158.4 0.0 349.8



#76
1,2,3-Trichloropropane
Concen: 27.997 ug/l
RT: 12.848 min Scan# 1855
Delta R.T. -0.147 min
Lab File: VN076659.D
Acq: 14 Feb 2023 14:05

Tgt Ion: 75 Resp: 129671
Ion Ratio Lower Upper
75 100
77 1.3 93.1 279.3#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 81.543 ug/l
 RT: 12.848 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN076659.D
 Acq: 14 Feb 2023 14:05

Instrument :
 MSVOA_N
 ClientSampleId :
 ASH

Tgt Ion: 75 Resp: 129671
 Ion Ratio Lower Upper
 75 100
 53 0.0 92.1 138.1#
 89 0.0 37.5 56.3#

