

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092122\
 Data File : VN074608.D
 Acq On : 21 Sep 2022 13:00
 Operator : JC\MD
 Sample : N4645-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TOLL-MW-09

Quant Time: Sep 22 06:57:20 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091522W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 15 19:20:33 2022
 Response via : Initial Calibration

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

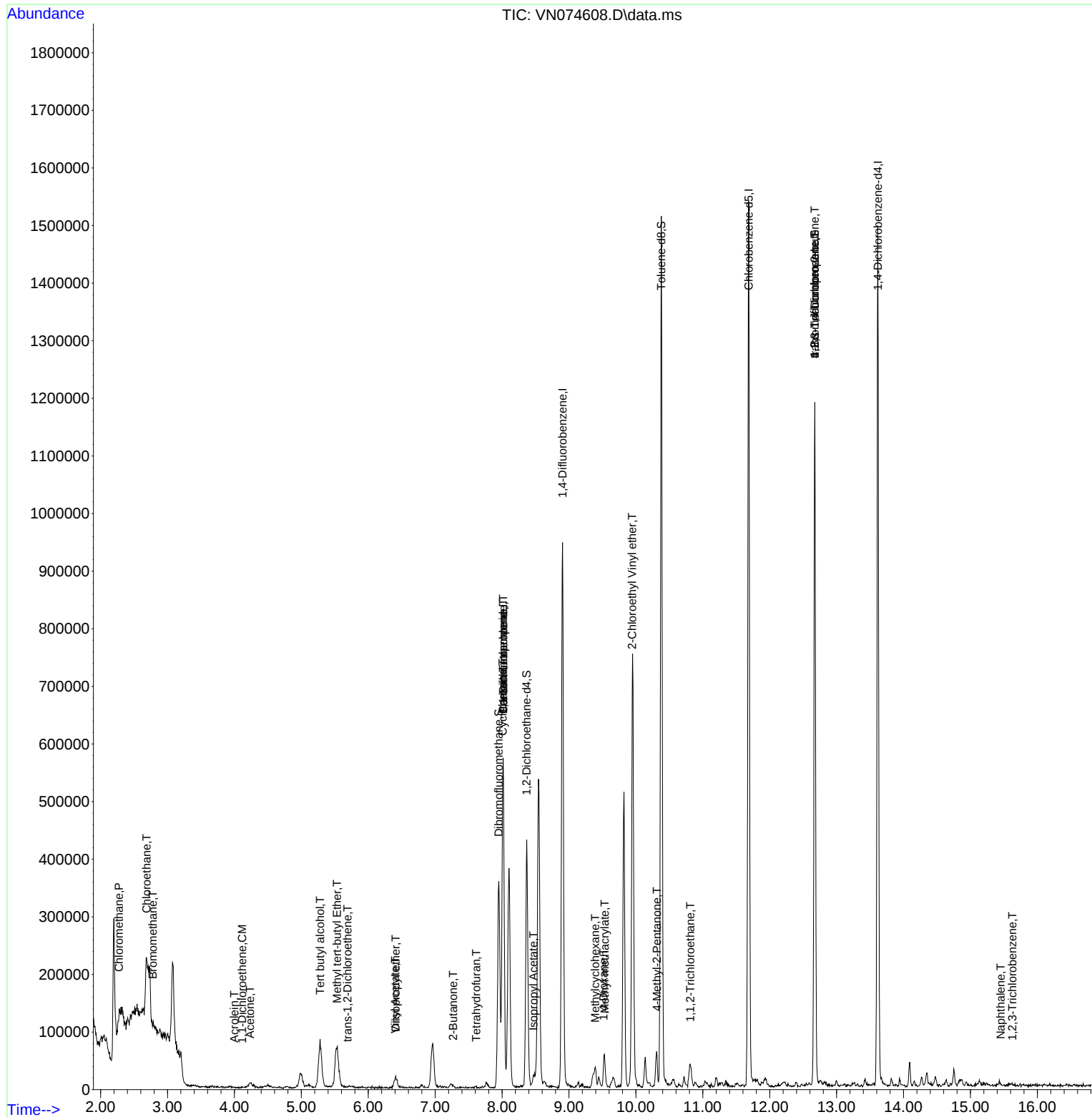
Internal Standards						
1) Pentafluorobenzene	8.016	168	409893	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	765129	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	775697	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.615	152	348322	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	303826	43.686	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	87.380%
35) Dibromofluoromethane	7.951	113	251986	49.578	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	99.160%
50) Toluene-d8	10.380	98	919244	46.766	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	93.540%
62) 4-Bromofluorobenzene	12.674	95	346813	51.515	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	103.040%
Target Compounds						
					Qvalue	
3) Chloromethane	2.275	50	3330	0.700	ug/l #	84
5) Bromomethane	2.781	94	962	0.227	ug/l #	43
6) Chloroethane	2.687	64	35051	6.390	ug/l #	54
11) Tert butyl alcohol	5.281	59	129516	57.167	ug/l	96
12) 1,1-Dichloroethene	4.116	96	151	0.712	ug/l #	1
13) Acrolein	3.998	56	313	0.378	ug/l #	68
16) Acetone	4.234	43	10291	2.312	ug/l	96
19) Methyl tert-butyl Ether	5.534	73	90598	3.982	ug/l #	73
21) trans-1,2-Dichloroethene	5.692	96	163	0.456	ug/l #	1
22) Diisopropyl ether	6.410	45	21770	0.841	ug/l #	87
23) Vinyl Acetate	6.404	43	14135	0.619	ug/l #	68
25) 2-Butanone	7.269	43	3180	0.430	ug/l #	86
28) Bromochloromethane	7.592	49	66	Below Cal	#	8
29) Tetrahydrofuran	7.616	42	1004	0.207	ug/l #	43
31) Cyclohexane	8.010	56	14666	1.188	ug/l #	53
36) 1,1-Dichloropropene	8.016	75	42662	4.742	ug/l #	41
38) Carbon Tetrachloride	8.016	117	42695	5.140	ug/l #	17
39) Methylcyclohexane	9.392	83	2637	0.247	ug/l #	69
43) Isopropyl Acetate	8.469	43	6822	0.313	ug/l #	53
48) Methyl methacrylate	9.533	41	16981	1.760	ug/l #	34
49) 1,4-Dioxane	9.516	88	159	0.857	ug/l #	1
51) 4-Methyl-2-Pentanone	10.316	43	9921	0.698	ug/l #	33
55) 1,1,2-Trichloroethane	10.816	97	9093	1.316	ug/l #	19
58) 2-Chloroethyl Vinyl ether	9.945	63	1392	0.256	ug/l #	44
76) 1,2,3-Trichloropropane	12.674	75	217087	20.248	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.674	75	217087	43.701	ug/l #	10
95) Naphthalene	15.451	128	5685	1.774	ug/l #	85
96) 1,2,3-Trichlorobenzene	15.627	180	531	1.409	ug/l #	18

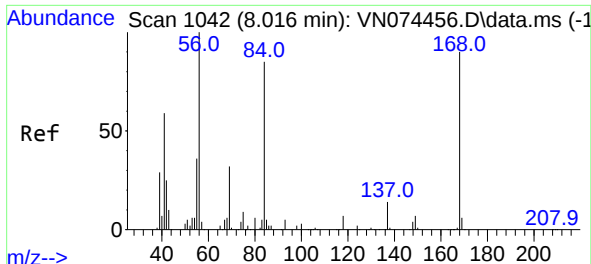
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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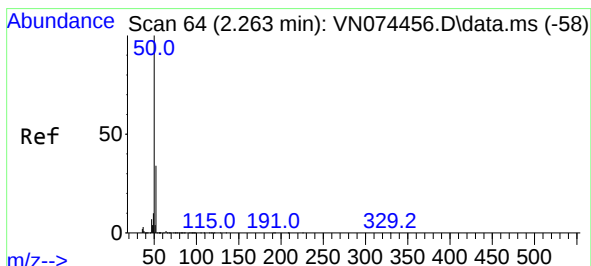
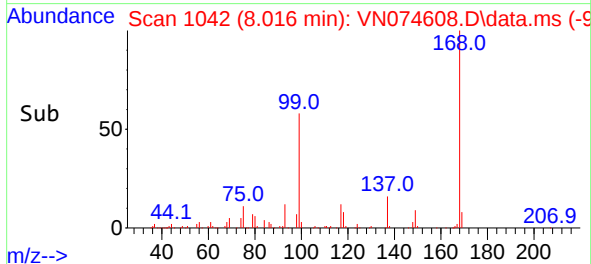
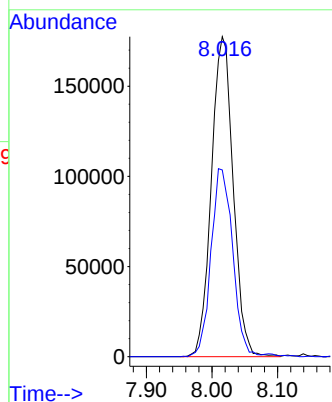
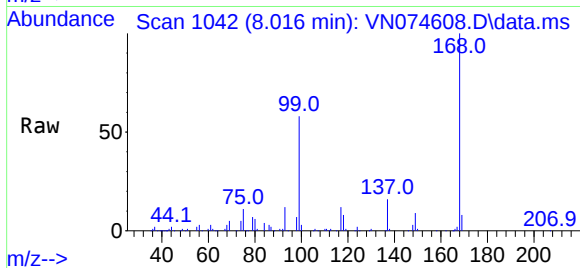




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.000 min
Lab File: VN074608.D
Acq: 21 Sep 2022 13:00

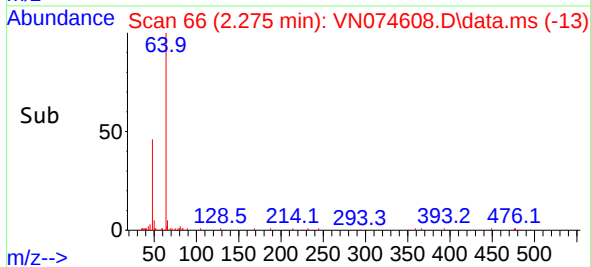
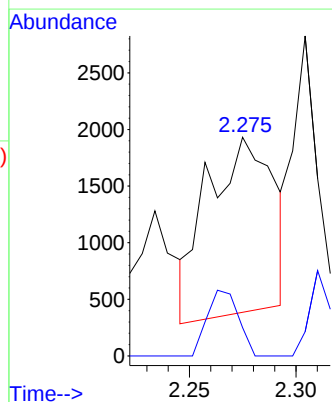
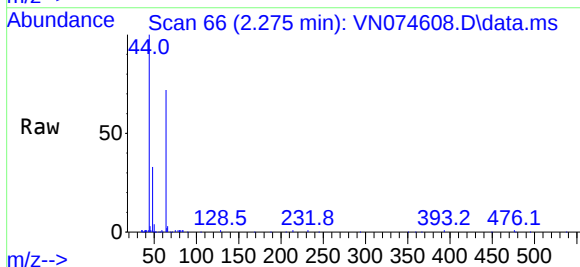
Instrument :
MSVOA_N
ClientSampleId :
TOLL-MW-09

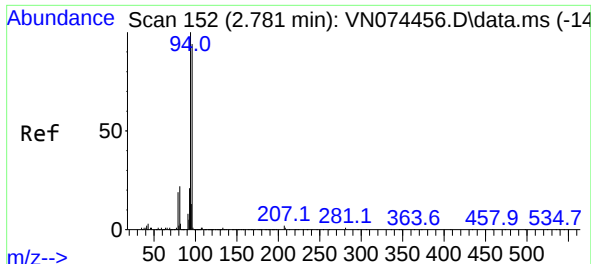
Tgt Ion:168 Resp: 409893
Ion Ratio Lower Upper
168 100
99 58.4 42.3 63.5



#3
Chloromethane
Concen: 0.700 ug/l
RT: 2.275 min Scan# 66
Delta R.T. 0.012 min
Lab File: VN074608.D
Acq: 21 Sep 2022 13:00

Tgt Ion: 50 Resp: 3330
Ion Ratio Lower Upper
50 100
52 23.1 25.7 38.5#

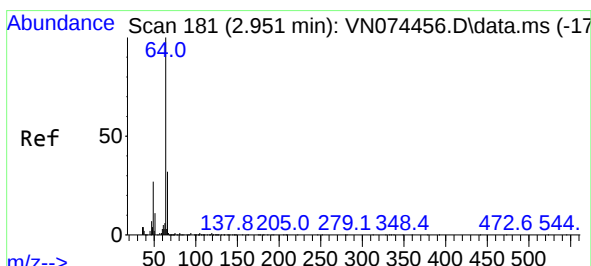
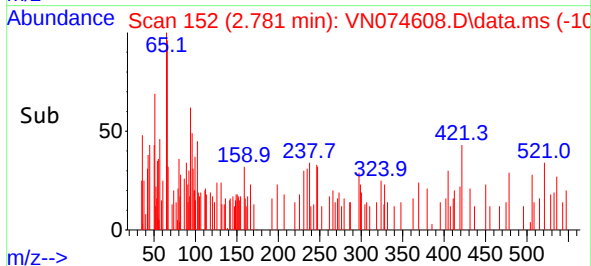
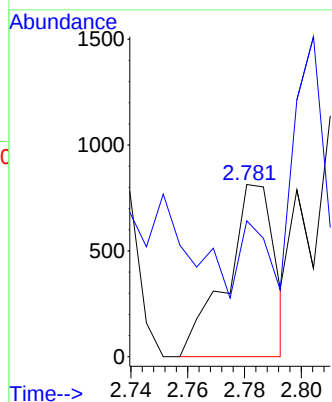
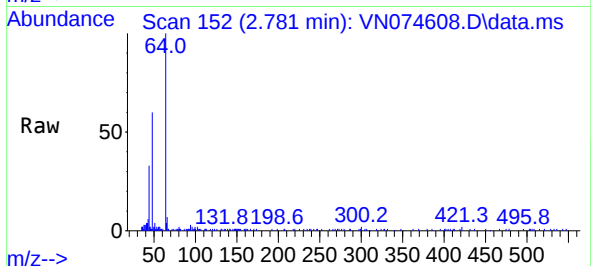




#5
Bromomethane
Concen: 0.227 ug/l
RT: 2.781 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN074608.D
Acq: 21 Sep 2022 13:00

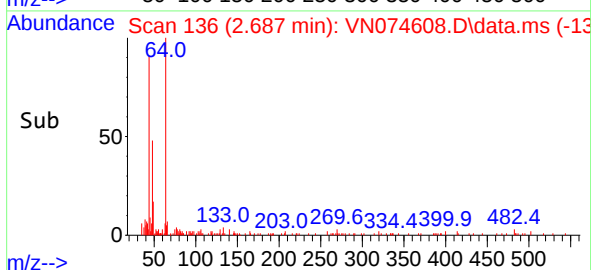
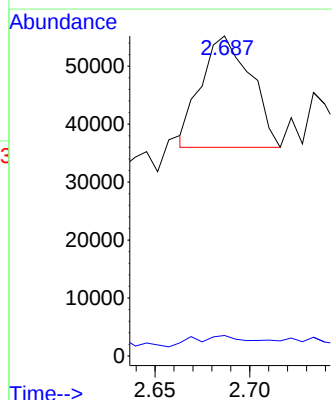
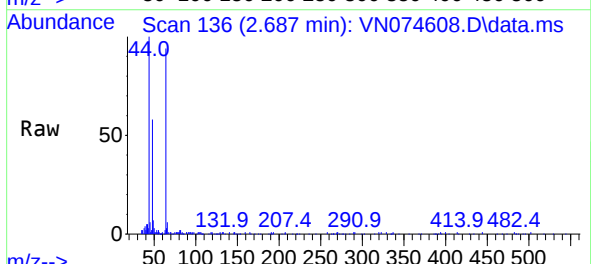
Instrument :
MSVOA_N
ClientSampleId :
TOLL-MW-09

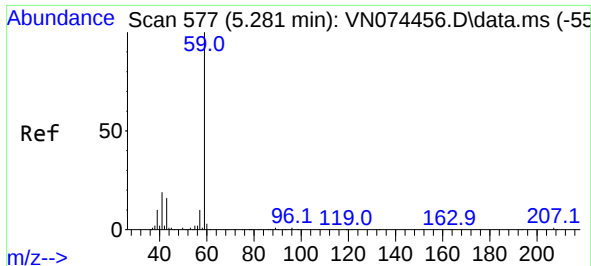
Tgt Ion: 94 Resp: 962
Ion Ratio Lower Upper
94 100
96 40.0 76.0 114.0#



#6
Chloroethane
Concen: 6.390 ug/l
RT: 2.687 min Scan# 136
Delta R.T. -0.264 min
Lab File: VN074608.D
Acq: 21 Sep 2022 13:00

Tgt Ion: 64 Resp: 35051
Ion Ratio Lower Upper
64 100
66 6.6 26.2 39.4#





#11

Tert butyl alcohol

Concen: 57.167 ug/l

RT: 5.281 min Scan# 51

Delta R.T. -0.000 min

Lab File: VN074608.D

Acq: 21 Sep 2022 13:00

Instrument :

MSVOA_N

ClientSampleId :

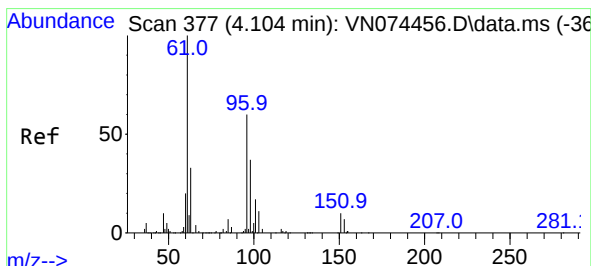
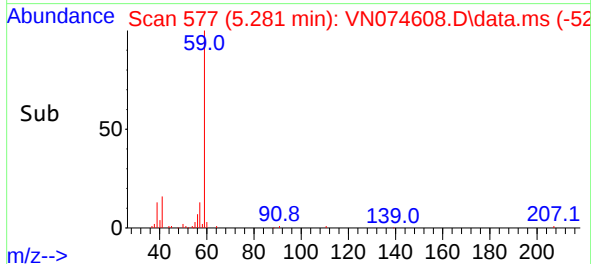
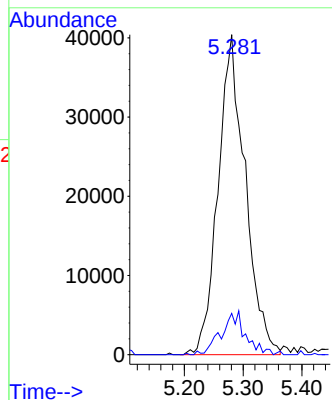
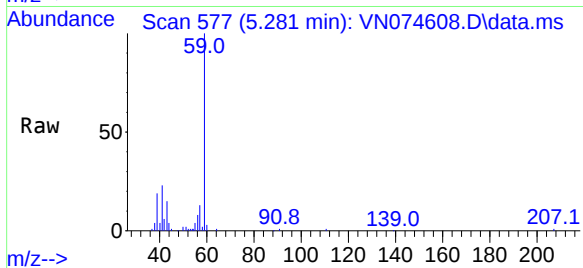
TOLL-MW-09

Tgt Ion: 59 Resp: 129516

Ion Ratio Lower Upper

59 100

57 12.1 8.3 12.5



#12

1,1-Dichloroethene

Concen: 0.712 ug/l

RT: 4.116 min Scan# 379

Delta R.T. 0.012 min

Lab File: VN074608.D

Acq: 21 Sep 2022 13:00

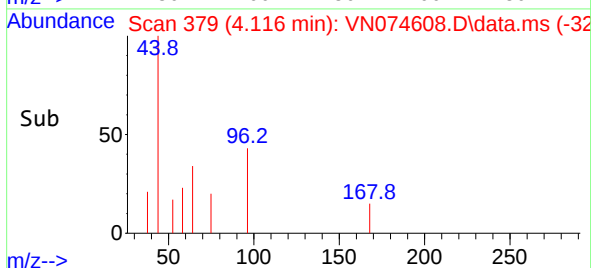
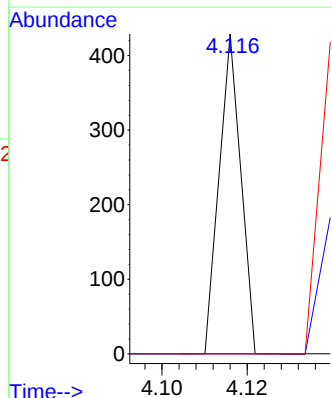
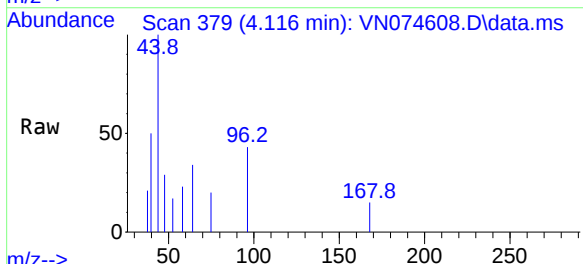
Tgt Ion: 96 Resp: 151

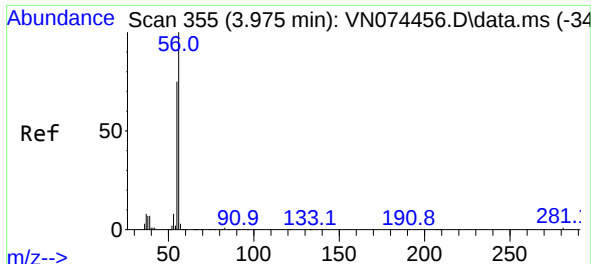
Ion Ratio Lower Upper

96 100

61 0.0 127.6 191.4#

98 0.0 51.2 76.8#

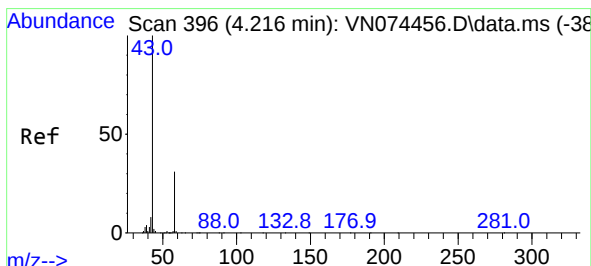
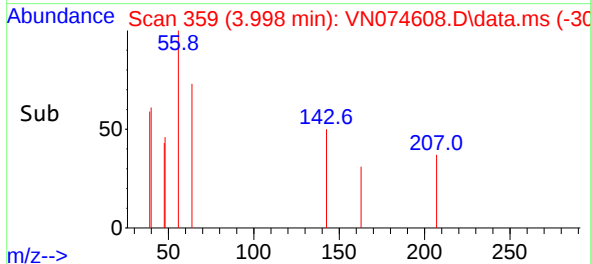
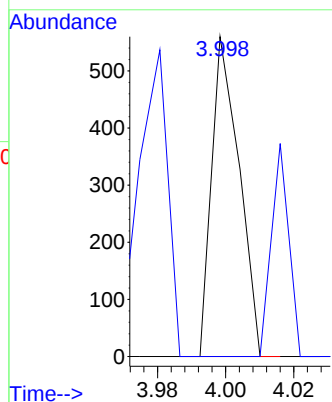
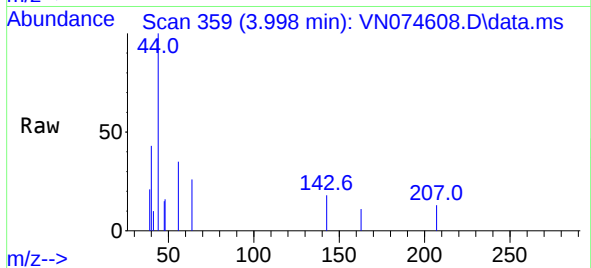




#13
Acrolein
Concen: 0.378 ug/l
RT: 3.998 min Scan# 313
Delta R.T. 0.023 min
Lab File: VN074608.D
Acq: 21 Sep 2022 13:00

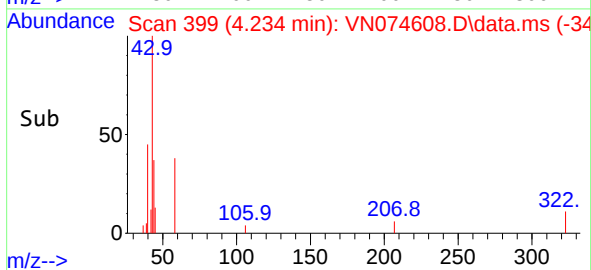
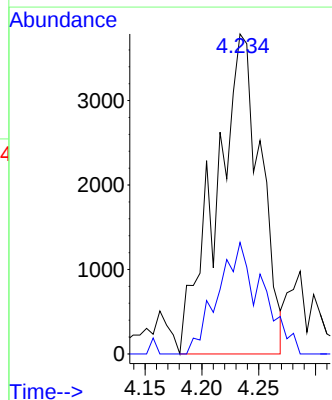
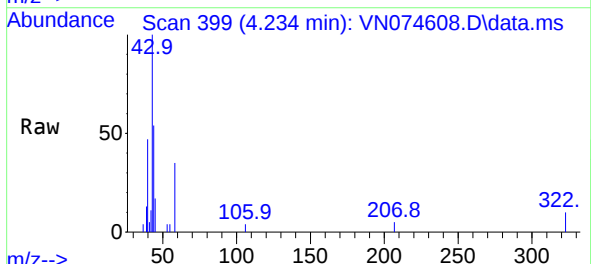
Instrument :
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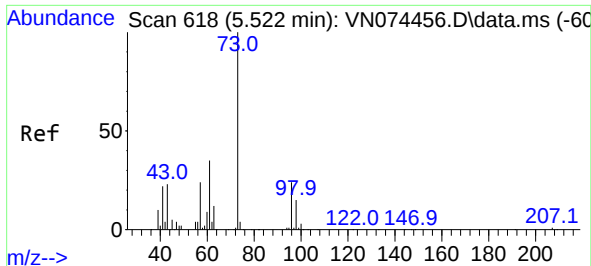
Tgt Ion: 56 Resp: 313
Ion Ratio Lower Upper
56 100
55 42.2 54.8 82.2#



#16
Acetone
Concen: 2.312 ug/l
RT: 4.234 min Scan# 399
Delta R.T. 0.018 min
Lab File: VN074608.D
Acq: 21 Sep 2022 13:00

Tgt Ion: 43 Resp: 10291
Ion Ratio Lower Upper
43 100
58 34.9 26.0 39.0





#19

Methyl tert-butyl Ether

Concen: 3.982 ug/l

RT: 5.534 min Scan# 61

Delta R.T. 0.012 min

Lab File: VN074608.D

Acq: 21 Sep 2022 13:00

Instrument :

MSVOA_N

ClientSampleId :

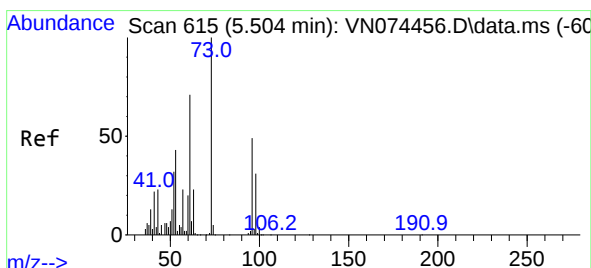
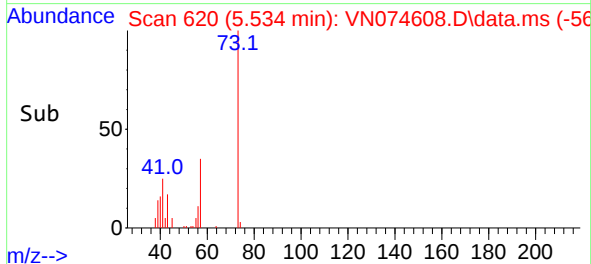
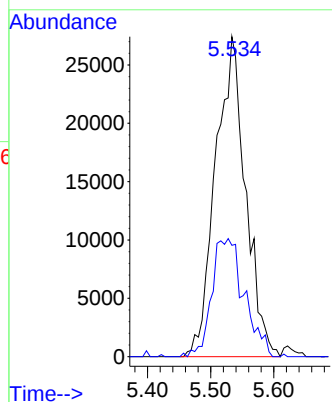
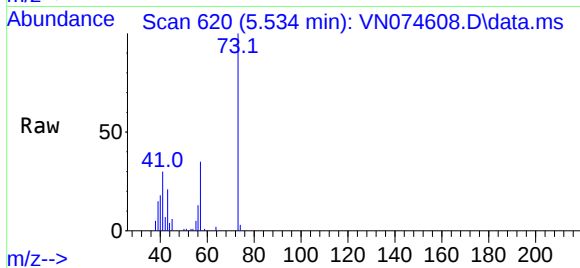
TOLL-MW-09

Tgt Ion: 73 Resp: 90598

Ion Ratio Lower Upper

73 100

57 34.8 17.6 26.4#



#21

trans-1,2-Dichloroethene

Concen: 0.456 ug/l

RT: 5.692 min Scan# 647

Delta R.T. 0.188 min

Lab File: VN074608.D

Acq: 21 Sep 2022 13:00

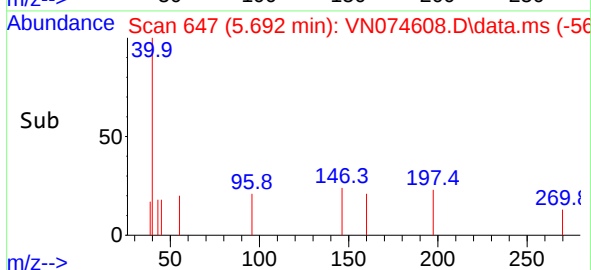
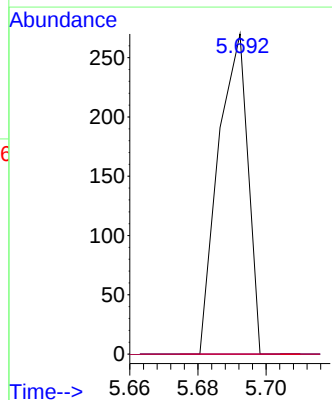
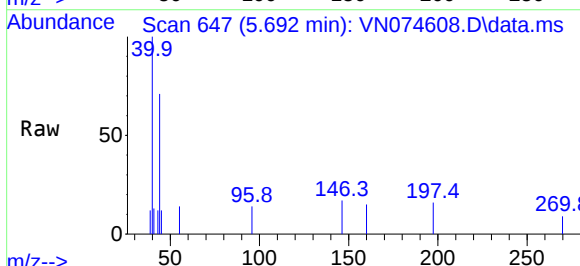
Tgt Ion: 96 Resp: 163

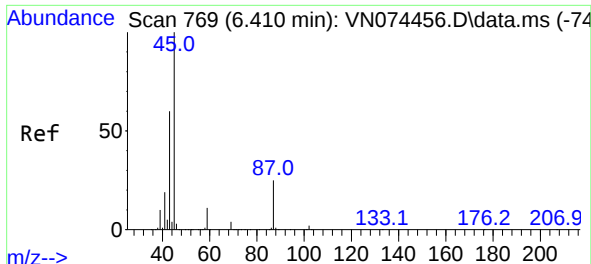
Ion Ratio Lower Upper

96 100

61 0.0 105.8 158.8#

98 0.0 50.3 75.5#

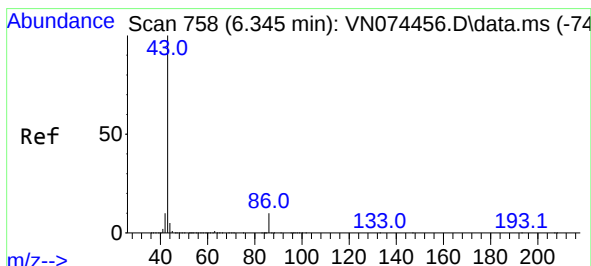
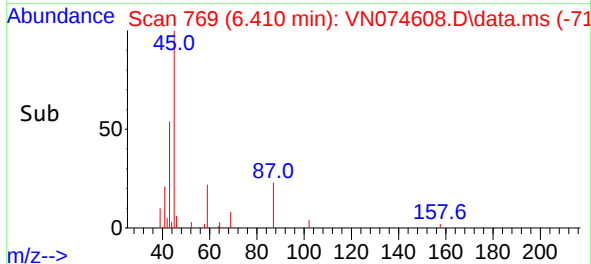
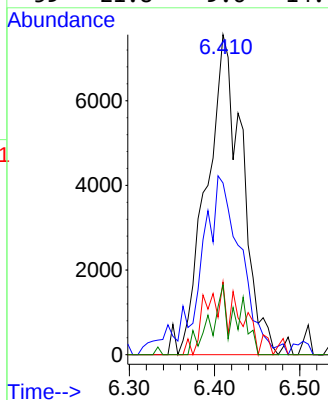
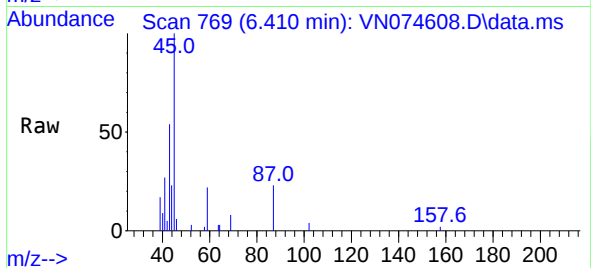




#22
Diisopropyl ether
Concen: 0.841 ug/l
RT: 6.410 min Scan# 769
Delta R.T. -0.000 min
Lab File: VN074608.D
Acq: 21 Sep 2022 13:00

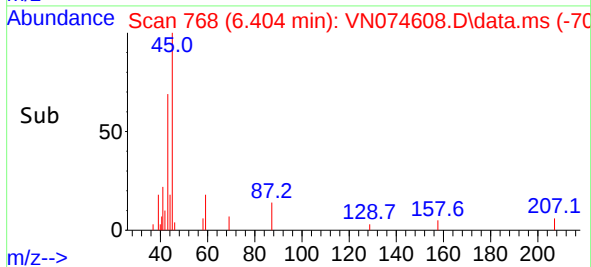
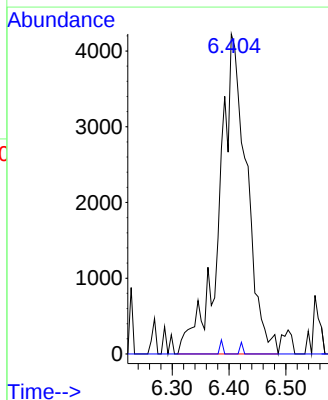
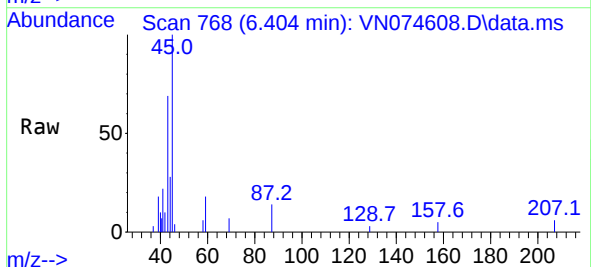
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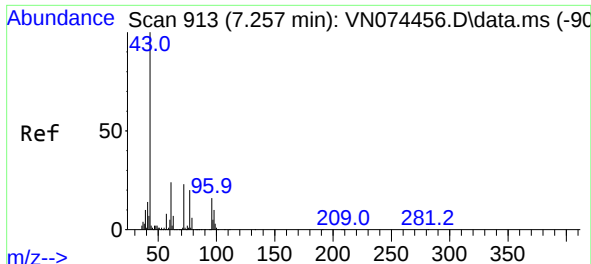
Tgt Ion:	45	Resp:	21770
Ion	Ratio	Lower	Upper
45	100		
43	51.0	46.6	70.0
87	22.7	24.3	36.5#
59	21.8	9.6	14.4#



#23
Vinyl Acetate
Concen: 0.619 ug/l
RT: 6.404 min Scan# 768
Delta R.T. 0.059 min
Lab File: VN074608.D
Acq: 21 Sep 2022 13:00

Tgt Ion:	43	Resp:	14135
Ion	Ratio	Lower	Upper
43	100		
86	0.0	10.0	15.0#

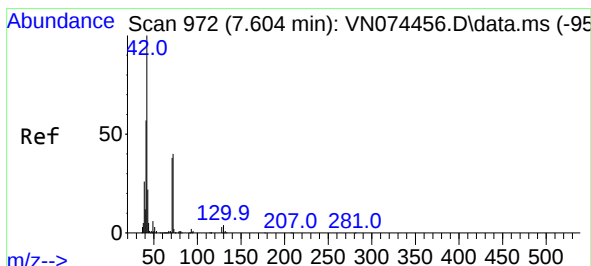
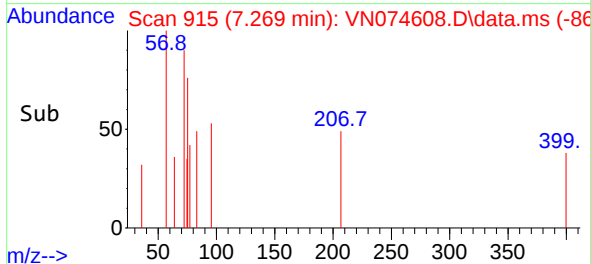
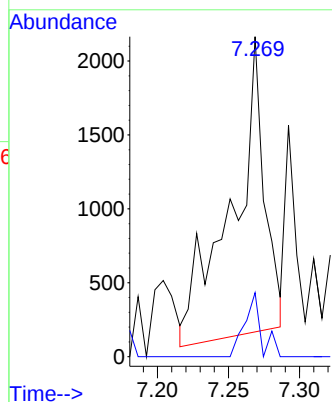
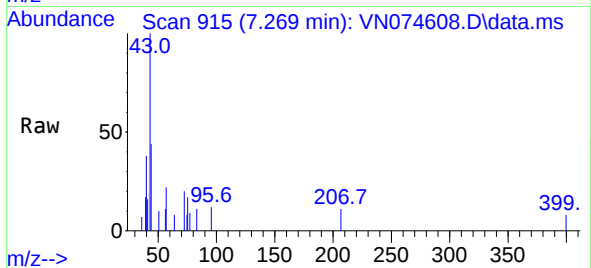




#25
2-Butanone
Concen: 0.430 ug/l
RT: 7.269 min Scan# 913
Delta R.T. 0.012 min
Lab File: VN074608.D
Acq: 21 Sep 2022 13:00

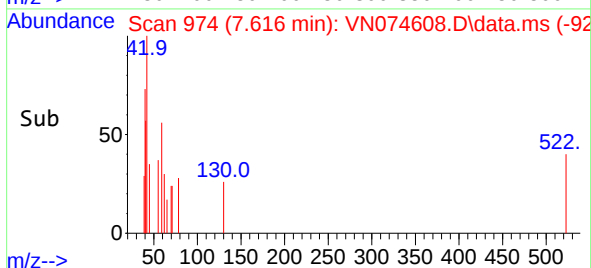
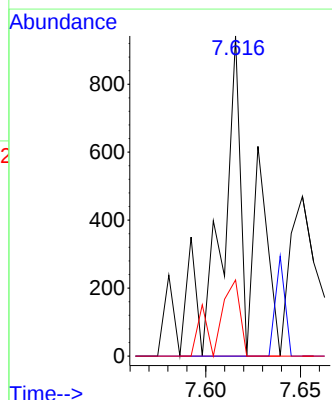
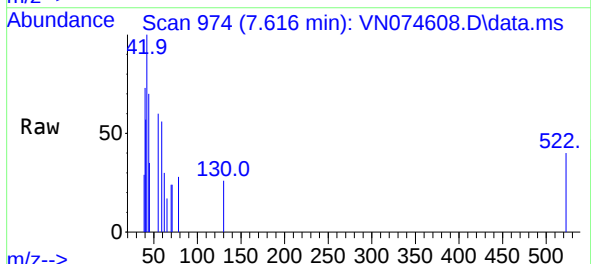
Instrument :
MSVOA_N
ClientSampleId :
TOLL-MW-09

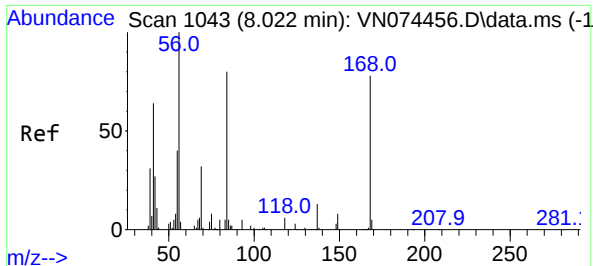
Tgt Ion: 43 Resp: 3180
Ion Ratio Lower Upper
43 100
72 22.1 23.7 35.5#



#29
Tetrahydrofuran
Concen: 0.207 ug/l
RT: 7.616 min Scan# 974
Delta R.T. 0.012 min
Lab File: VN074608.D
Acq: 21 Sep 2022 13:00

Tgt Ion: 42 Resp: 1004
Ion Ratio Lower Upper
42 100
72 0.0 39.7 59.5#
71 19.0 36.6 55.0#

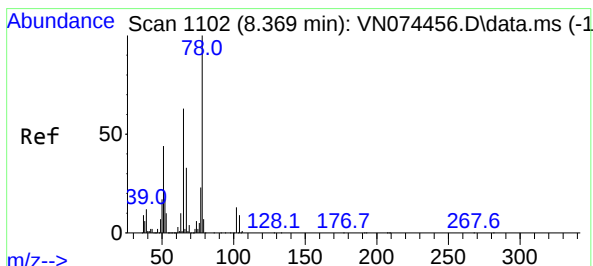
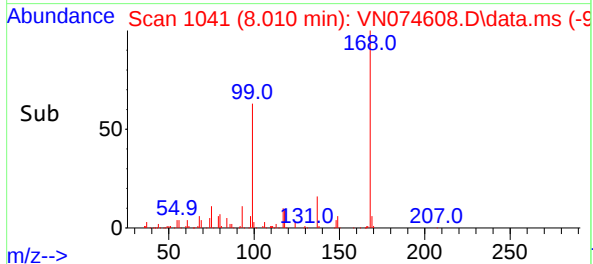
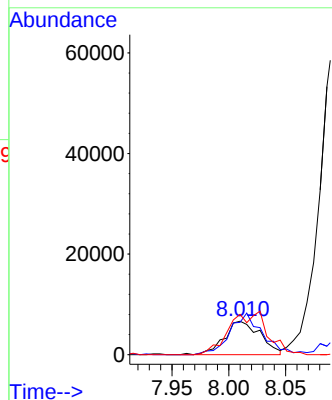
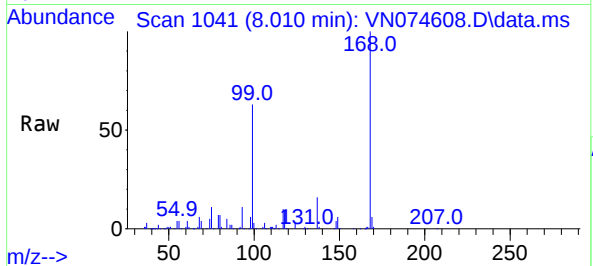




#31
Cyclohexane
Concen: 1.188 ug/l
RT: 8.010 min Scan# 1041
Delta R.T. -0.012 min
Lab File: VN074608.D
Acq: 21 Sep 2022 13:00

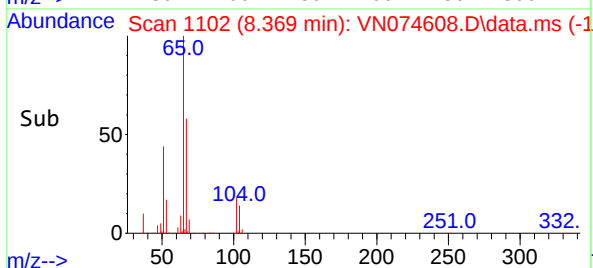
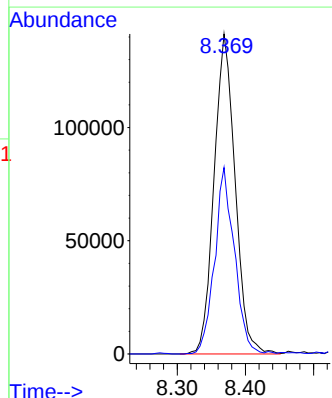
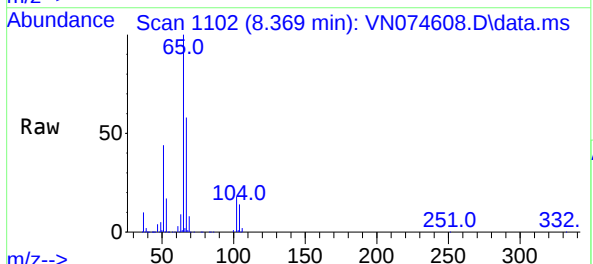
Instrument :
MSVOA_N
ClientSampleId :
TOLL-MW-09

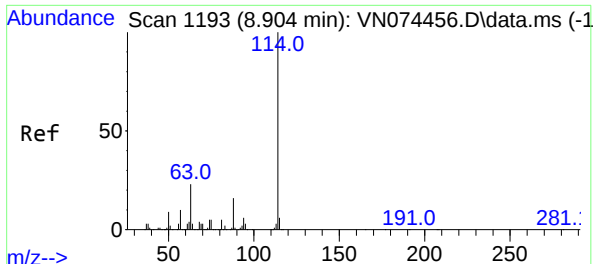
Tgt Ion: 56 Resp: 14666
Ion Ratio Lower Upper
56 100
69 96.8 27.8 41.8#
84 120.6 76.9 115.3#



#33
1,2-Dichloroethane-d4
Concen: 43.686 ug/l
RT: 8.369 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VN074608.D
Acq: 21 Sep 2022 13:00

Tgt Ion: 65 Resp: 303826
Ion Ratio Lower Upper
65 100
67 54.7 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. -0.000 min

Lab File: VN074608.D

Acq: 21 Sep 2022 13:00

Instrument :

MSVOA_N

ClientSampleId :

TOLL-MW-09

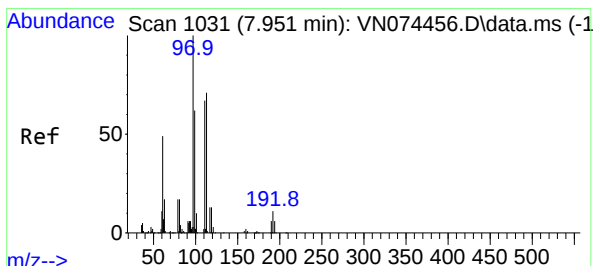
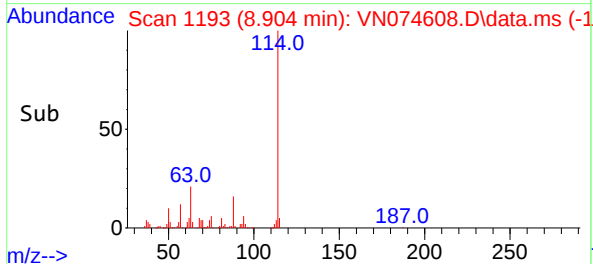
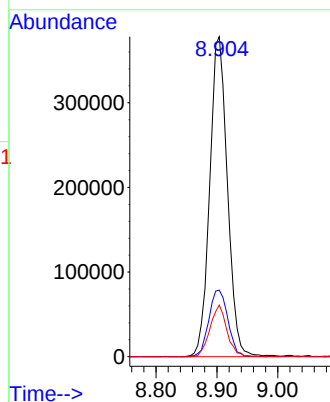
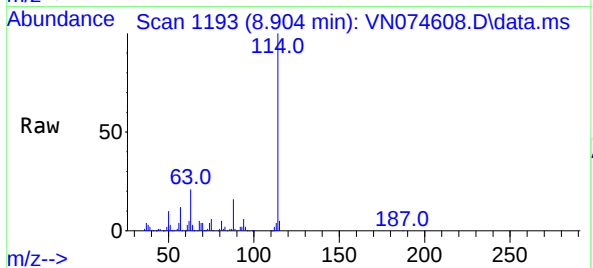
Tgt Ion:114 Resp: 765129

Ion Ratio Lower Upper

114 100

63 20.8 0.0 40.0

88 16.1 0.0 32.6



#35

Dibromofluoromethane

Concen: 49.578 ug/l

RT: 7.951 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VN074608.D

Acq: 21 Sep 2022 13:00

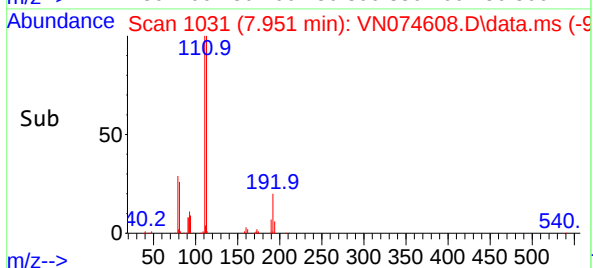
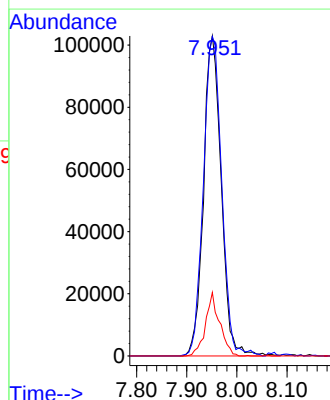
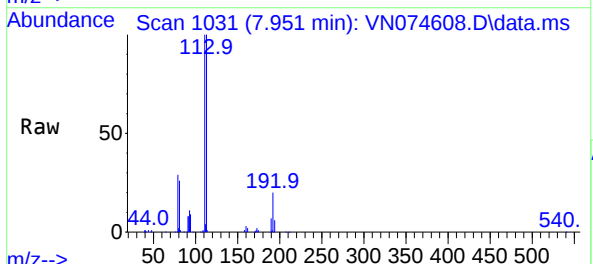
Tgt Ion:113 Resp: 251986

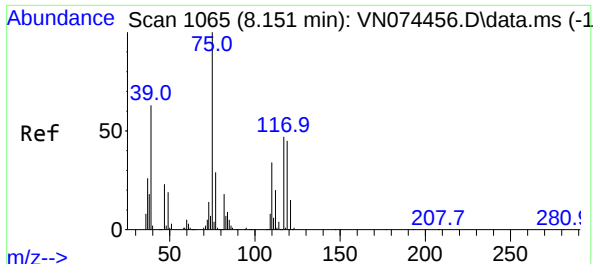
Ion Ratio Lower Upper

113 100

111 103.7 81.4 122.0

192 15.9 17.0 25.6#

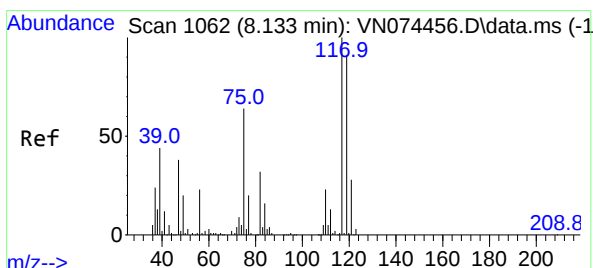
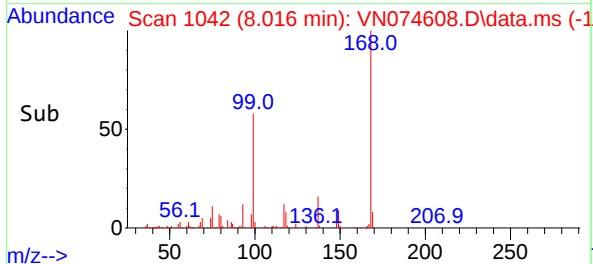
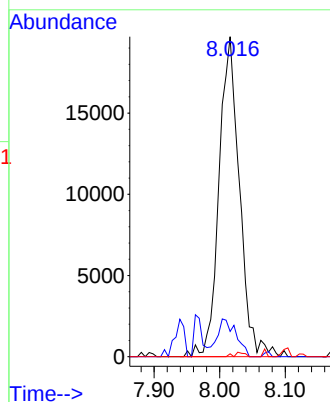
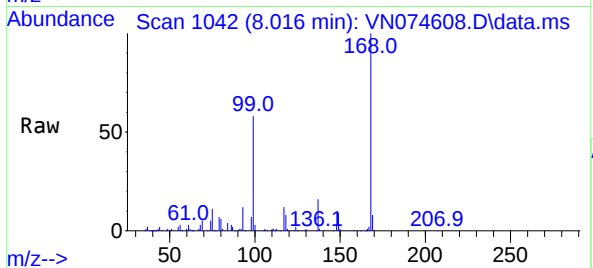




#36
1,1-Dichloropropene
Concen: 4.742 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.135 min
Lab File: VN074608.D
Acq: 21 Sep 2022 13:00

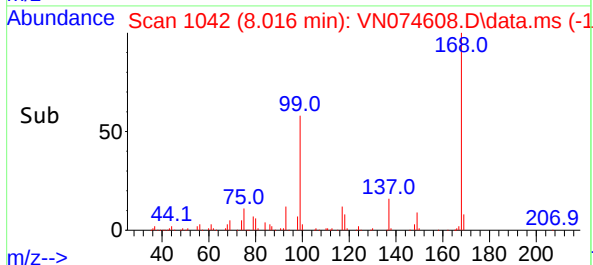
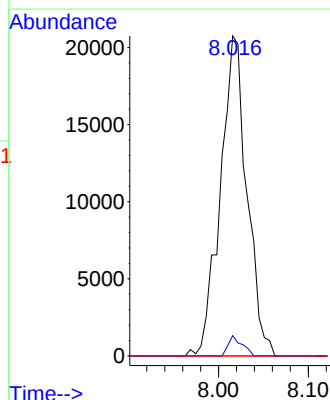
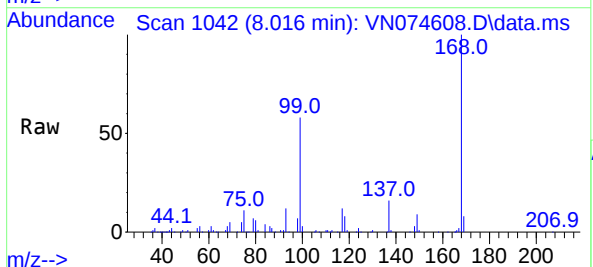
Instrument :
MSVOA_N
ClientSampleId :
TOLL-MW-09

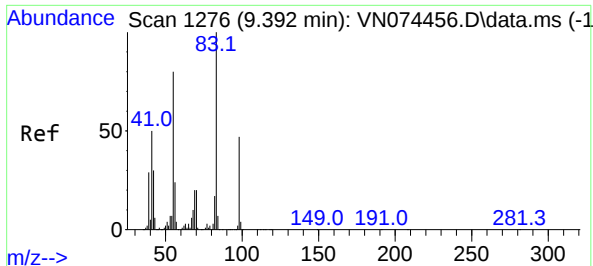
Tgt Ion: 75 Resp: 42662
Ion Ratio Lower Upper
75 100
110 0.0 18.3 54.8#
77 0.7 25.1 37.7#



#38
Carbon Tetrachloride
Concen: 5.140 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.117 min
Lab File: VN074608.D
Acq: 21 Sep 2022 13:00

Tgt Ion: 117 Resp: 42695
Ion Ratio Lower Upper
117 100
119 6.4 75.8 113.8#
121 0.0 24.6 37.0#





#39

Methylcyclohexane

Concen: 0.247 ug/l

RT: 9.392 min Scan# 1119

Delta R.T. 0.000 min

Lab File: VN074608.D

Acq: 21 Sep 2022 13:00

Instrument :

MSVOA_N

ClientSampleId :

TOLL-MW-09

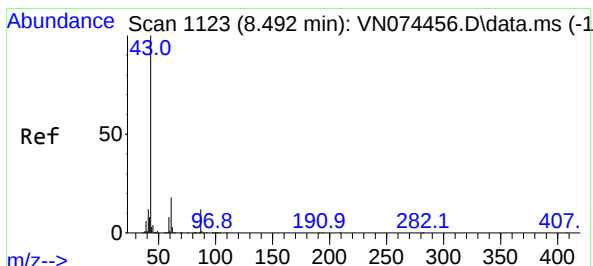
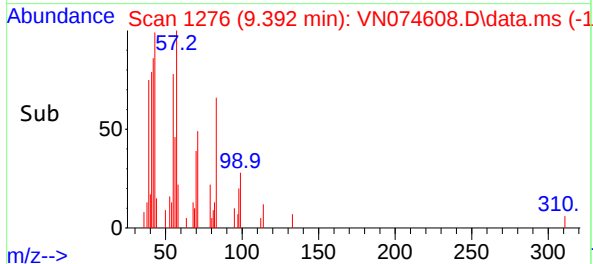
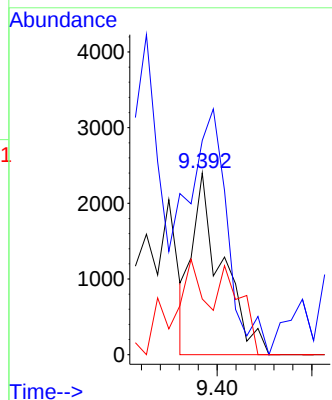
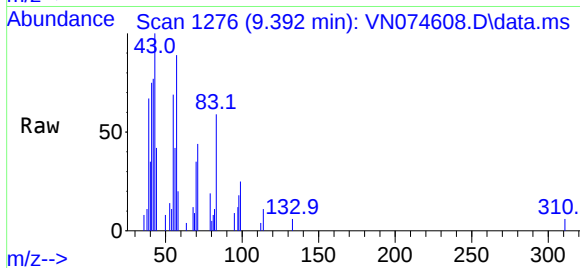
Tgt Ion: 83 Resp: 2637

Ion Ratio Lower Upper

83 100

55 100.3 57.8 86.8#

98 30.6 39.4 59.2#



#43

Isopropyl Acetate

Concen: 0.313 ug/l

RT: 8.469 min Scan# 1119

Delta R.T. -0.023 min

Lab File: VN074608.D

Acq: 21 Sep 2022 13:00

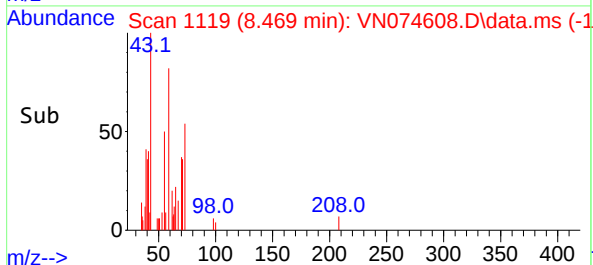
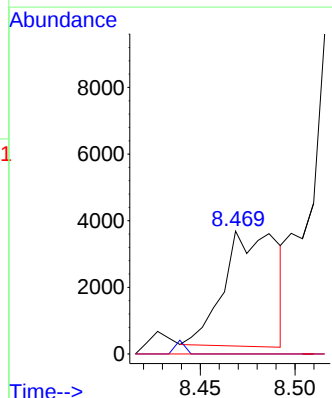
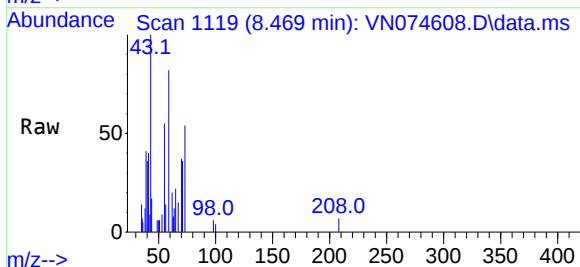
Tgt Ion: 43 Resp: 6822

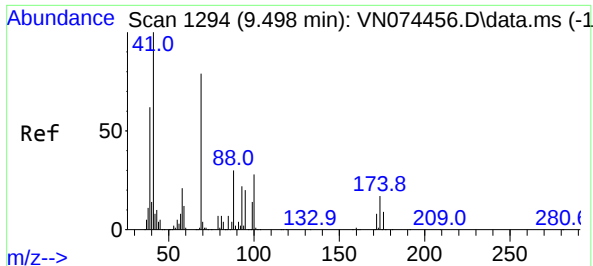
Ion Ratio Lower Upper

43 100

61 0.0 21.9 32.9#

87 0.0 12.0 18.0#

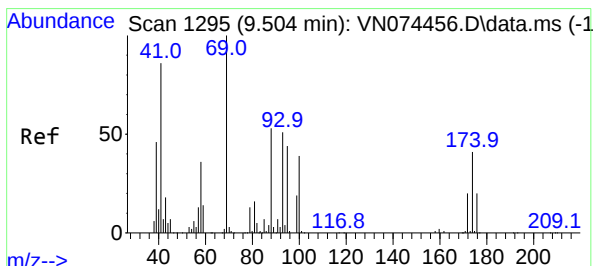
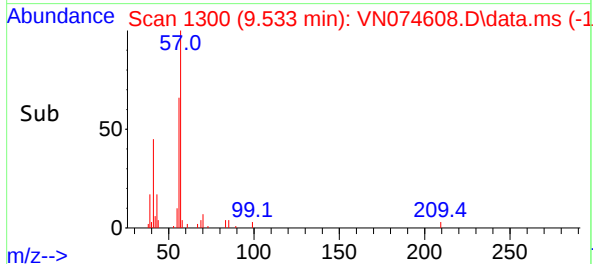
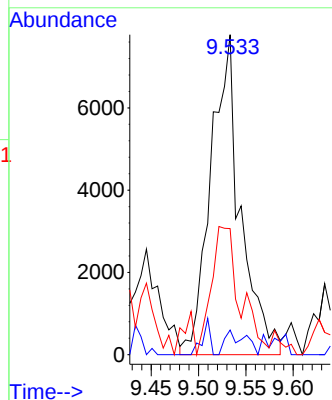
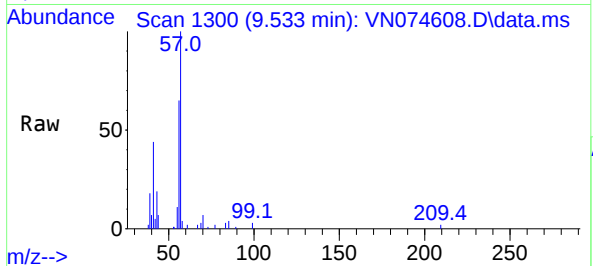




#48
Methyl methacrylate
Concen: 1.760 ug/l
RT: 9.533 min Scan# 11
Delta R.T. 0.035 min
Lab File: VN074608.D
Acq: 21 Sep 2022 13:00

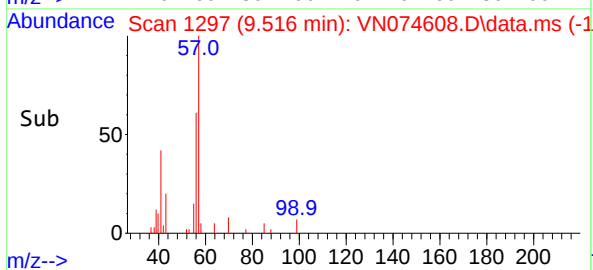
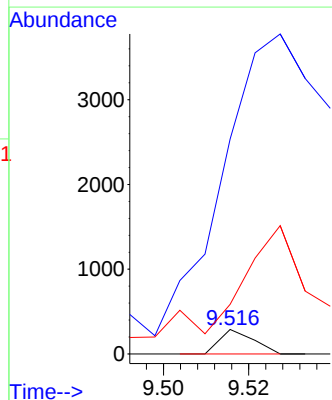
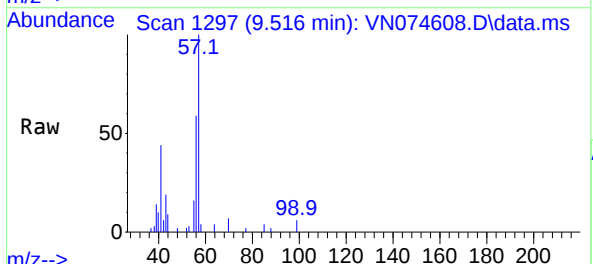
Instrument :
MSVOA_N
ClientSampleId :
TOLL-MW-09

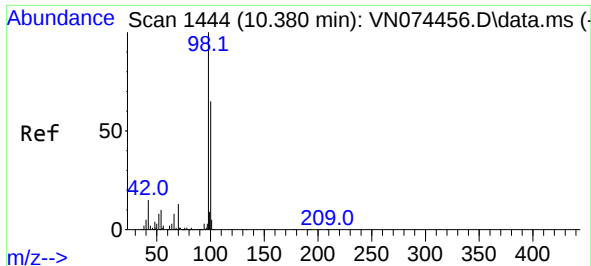
Tgt Ion: 41 Resp: 16981
Ion Ratio Lower Upper
41 100
69 5.0 74.7 112.1#
39 38.7 45.6 68.4#



#49
1,4-Dioxane
Concen: 0.857 ug/l
RT: 9.516 min Scan# 1297
Delta R.T. 0.012 min
Lab File: VN074608.D
Acq: 21 Sep 2022 13:00

Tgt Ion: 88 Resp: 159
Ion Ratio Lower Upper
88 100
43 5018.2 20.2 30.4#
58 1579.9 54.2 81.4#

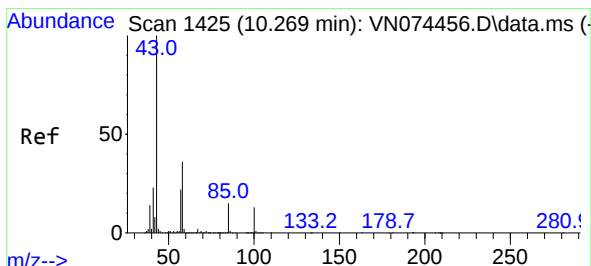
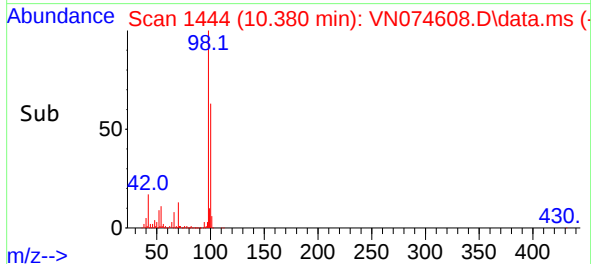
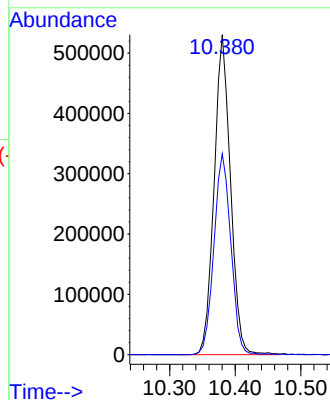
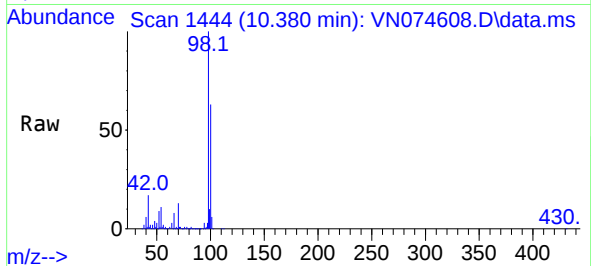




#50
Toluene-d8
Concen: 46.766 ug/l
RT: 10.380 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN074608.D
Acq: 21 Sep 2022 13:00

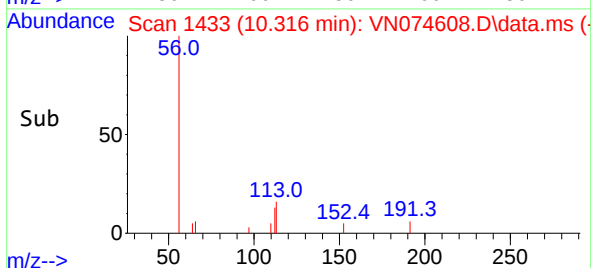
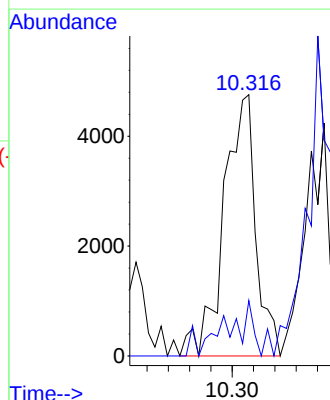
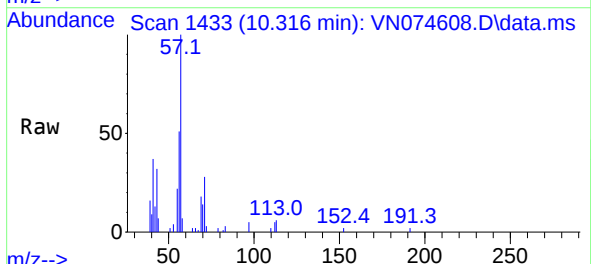
Instrument :
MSVOA_N
ClientSampleId :
TOLL-MW-09

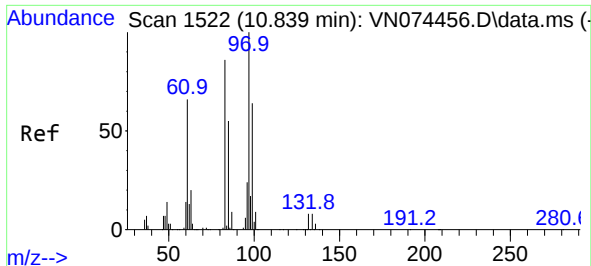
Tgt Ion: 98 Resp: 919244
Ion Ratio Lower Upper
98 100
100 64.9 52.6 78.8



#51
4-Methyl-2-Pentanone
Concen: 0.698 ug/l
RT: 10.316 min Scan# 1433
Delta R.T. 0.047 min
Lab File: VN074608.D
Acq: 21 Sep 2022 13:00

Tgt Ion: 43 Resp: 9921
Ion Ratio Lower Upper
43 100
58 0.0 34.1 51.1#

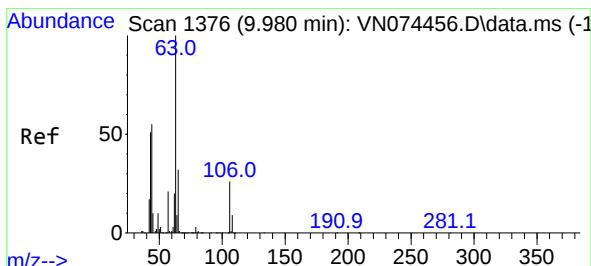
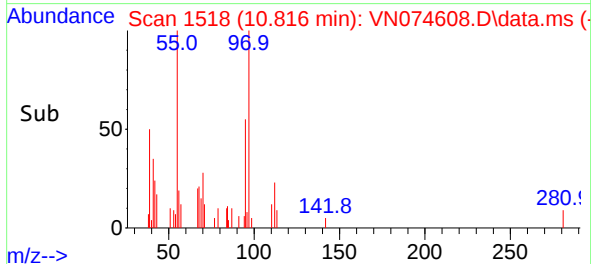
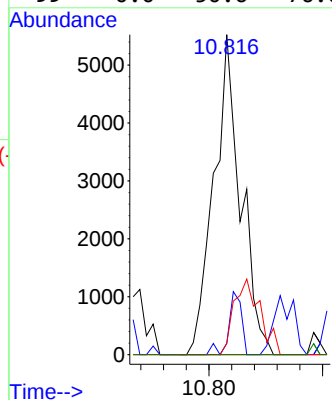
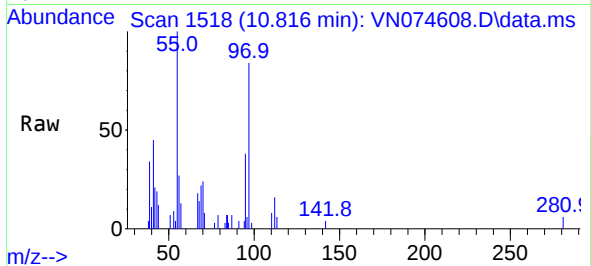




#55
 1,1,2-Trichloroethane
 Concen: 1.316 ug/l
 RT: 10.816 min Scan# 1518
 Delta R.T. -0.023 min
 Lab File: VN074608.D
 Acq: 21 Sep 2022 13:00

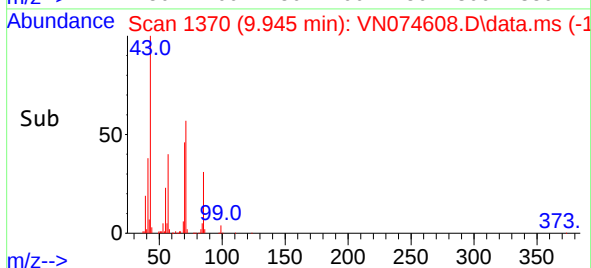
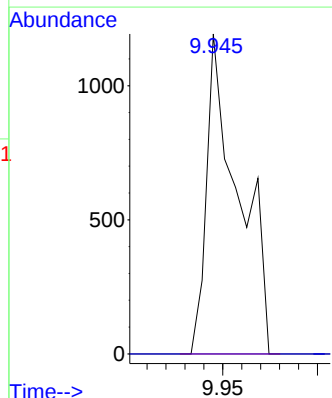
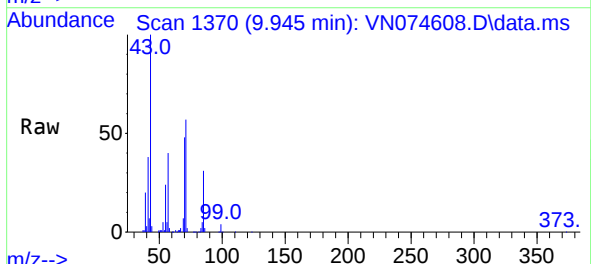
Instrument : MSVOA_N
 ClientSampleId : TOLL-MW-09

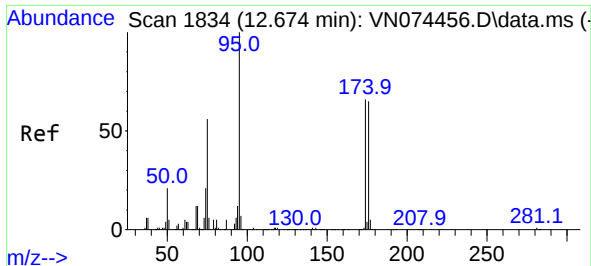
Tgt Ion: 97	Resp: 9093
Ion Ratio	Lower Upper
97 100	
83 3.5	66.2 99.4#
85 3.6	43.9 65.9#
99 0.0	50.6 76.0#



#58
 2-Chloroethyl Vinyl ether
 Concen: 0.256 ug/l
 RT: 9.945 min Scan# 1370
 Delta R.T. -0.035 min
 Lab File: VN074608.D
 Acq: 21 Sep 2022 13:00

Tgt Ion: 63	Resp: 1392		
Ion Ratio	Lower	Upper	
63 100			
106 0.0	24.6	36.8#	

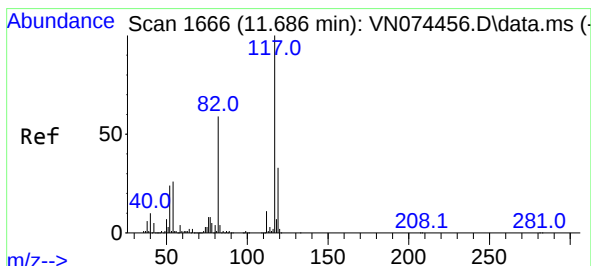
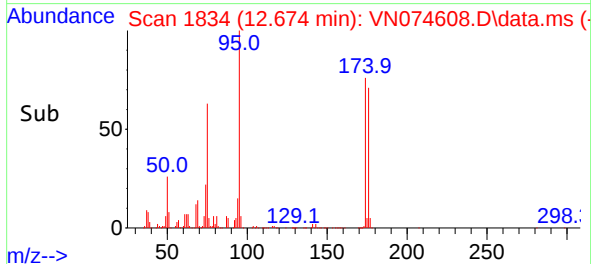
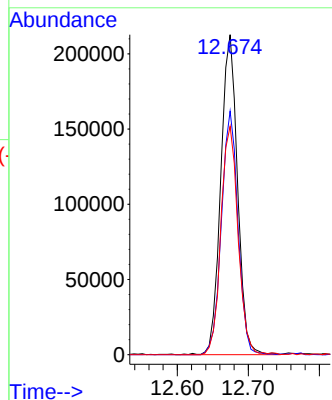
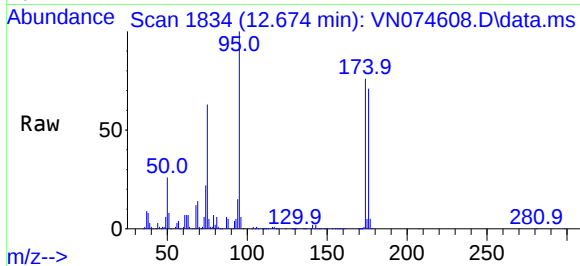




#62
4-Bromofluorobenzene
Concen: 51.515 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.000 min
Lab File: VN074608.D
Acq: 21 Sep 2022 13:00

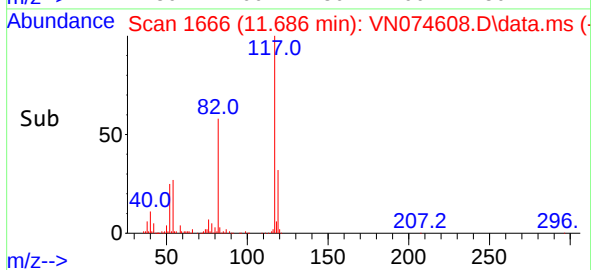
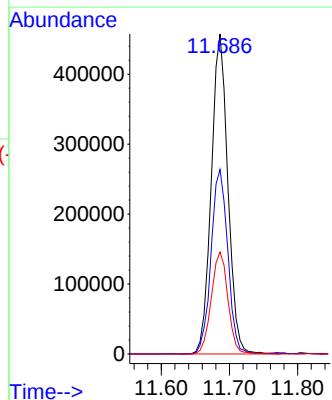
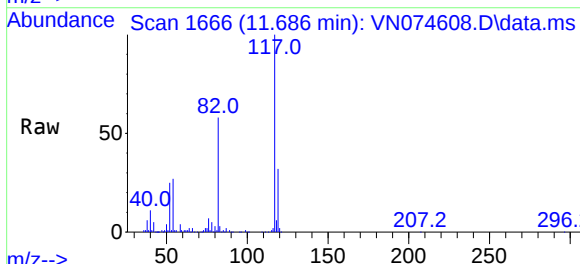
Instrument :
MSVOA_N
ClientSampleId :
TOLL-MW-09

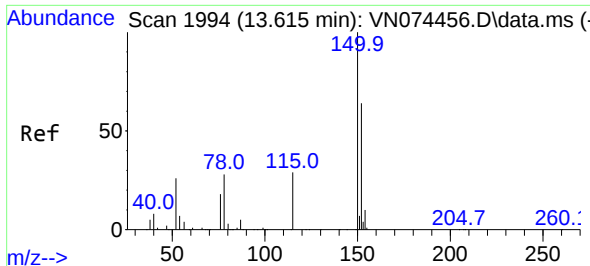
Tgt Ion: 95 Resp: 346813
Ion Ratio Lower Upper
95 100
174 75.1 0.0 167.6
176 73.0 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.686 min Scan# 1666
Delta R.T. 0.000 min
Lab File: VN074608.D
Acq: 21 Sep 2022 13:00

Tgt Ion: 117 Resp: 775697
Ion Ratio Lower Upper
117 100
82 57.6 44.2 66.2
119 31.9 25.4 38.0

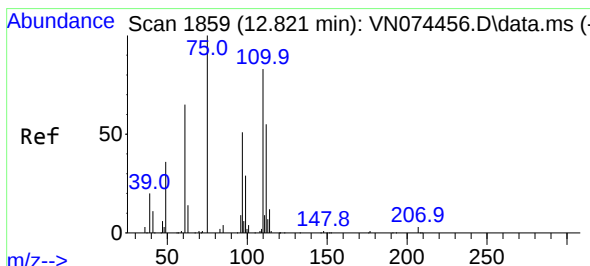
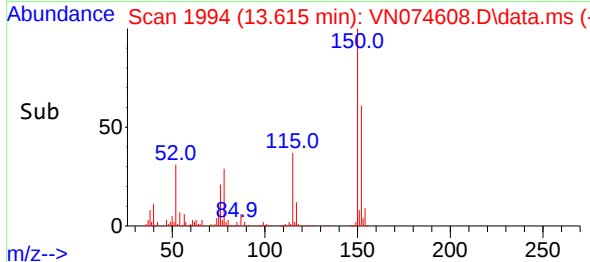
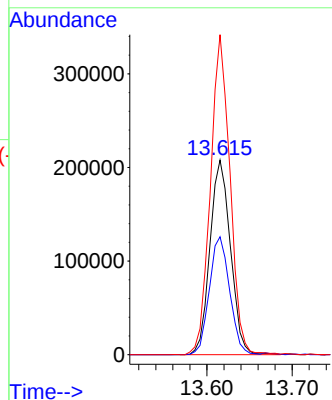
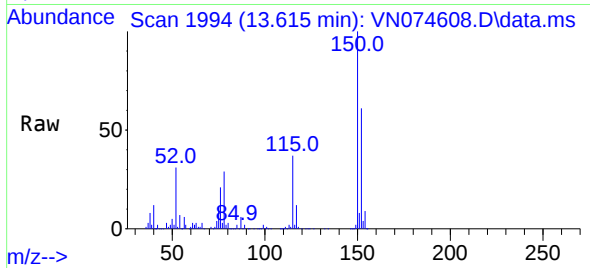




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.615 min Scan# 1994
 Delta R.T. 0.000 min
 Lab File: VN074608.D
 Acq: 21 Sep 2022 13:00

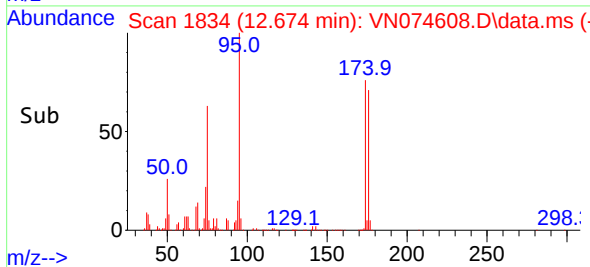
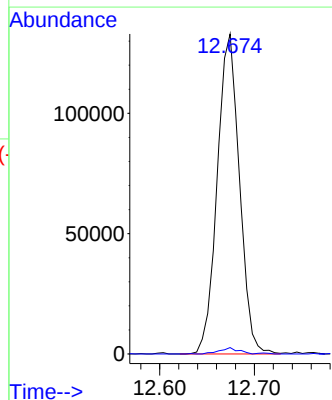
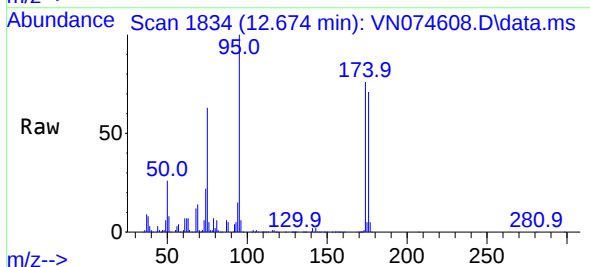
Instrument :
 MSVOA_N
 ClientSampleId :
 TOLL-MW-09

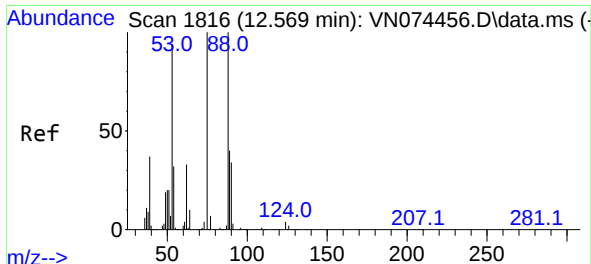
Tgt Ion:152 Resp: 348322
 Ion Ratio Lower Upper
 152 100
 115 59.9 28.9 86.7
 150 156.9 0.0 356.2



#76
 1,2,3-Trichloropropane
 Concen: 20.248 ug/l
 RT: 12.674 min Scan# 1834
 Delta R.T. -0.147 min
 Lab File: VN074608.D
 Acq: 21 Sep 2022 13:00

Tgt Ion: 75 Resp: 217087
 Ion Ratio Lower Upper
 75 100
 77 1.7 98.5 295.5#

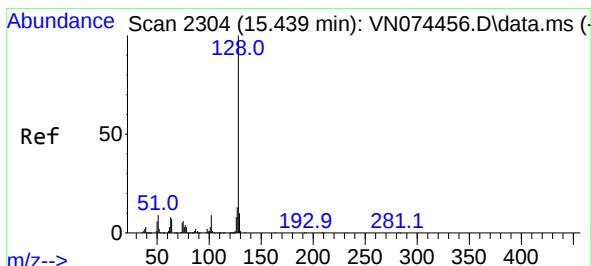
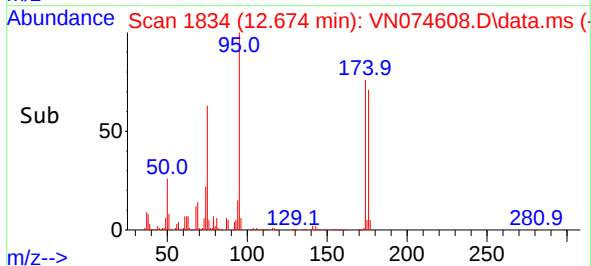
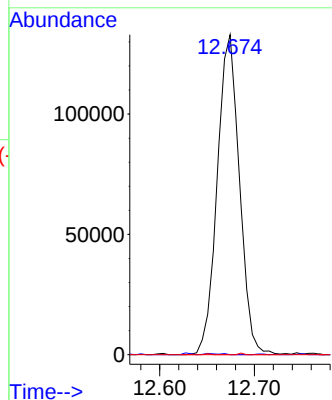
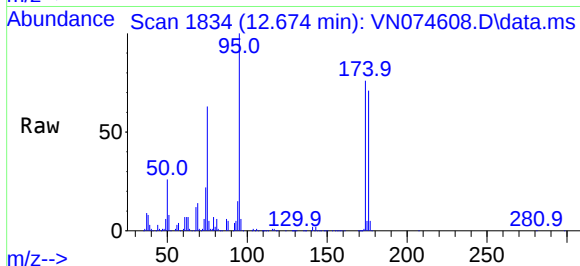




#81
trans-1,4-Dichloro-2-butene
Concen: 43.701 ug/l
RT: 12.674 min Scan# 1816
Delta R.T. 0.105 min
Lab File: VN074608.D
Acq: 21 Sep 2022 13:00

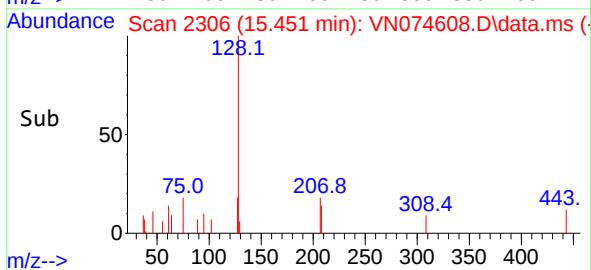
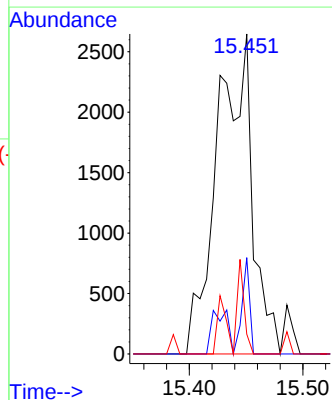
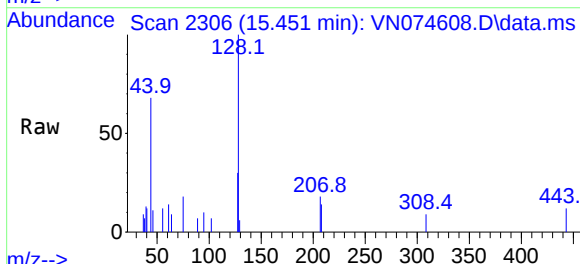
Instrument :
MSVOA_N
ClientSampleId :
TOLL-MW-09

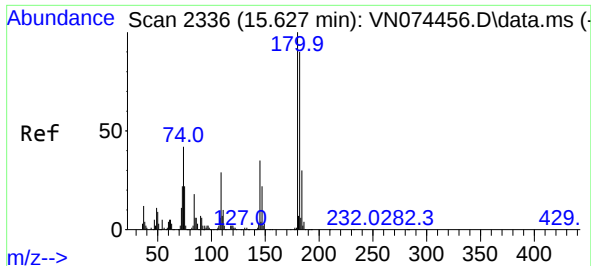
Tgt Ion: 75 Resp: 217087
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.1 37.2 55.8#



#95
Naphthalene
Concen: 1.774 ug/l
RT: 15.451 min Scan# 2306
Delta R.T. 0.012 min
Lab File: VN074608.D
Acq: 21 Sep 2022 13:00

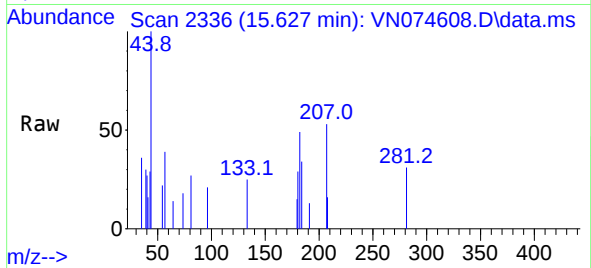
Tgt Ion:128 Resp: 5685
Ion Ratio Lower Upper
128 100
127 6.4 10.3 15.5#
129 5.9 8.6 13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 1.409 ug/l
 RT: 15.627 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN074608.D
 Acq: 21 Sep 2022 13:00

Instrument :
 MSVOA_N
 ClientSampleId :
 TOLL-MW-09



Tgt Ion:180 Resp: 531
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.8 143.3#
 145 13.6 15.5 46.5#

