

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101221\
 Data File : VN068872.D
 Acq On : 12 Oct 2021 19:50
 Operator : JC/MD
 Sample : M4150-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 13 08:22:27 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N101221W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 13 05:44:40 2021
 Response via : Initial Calibration

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

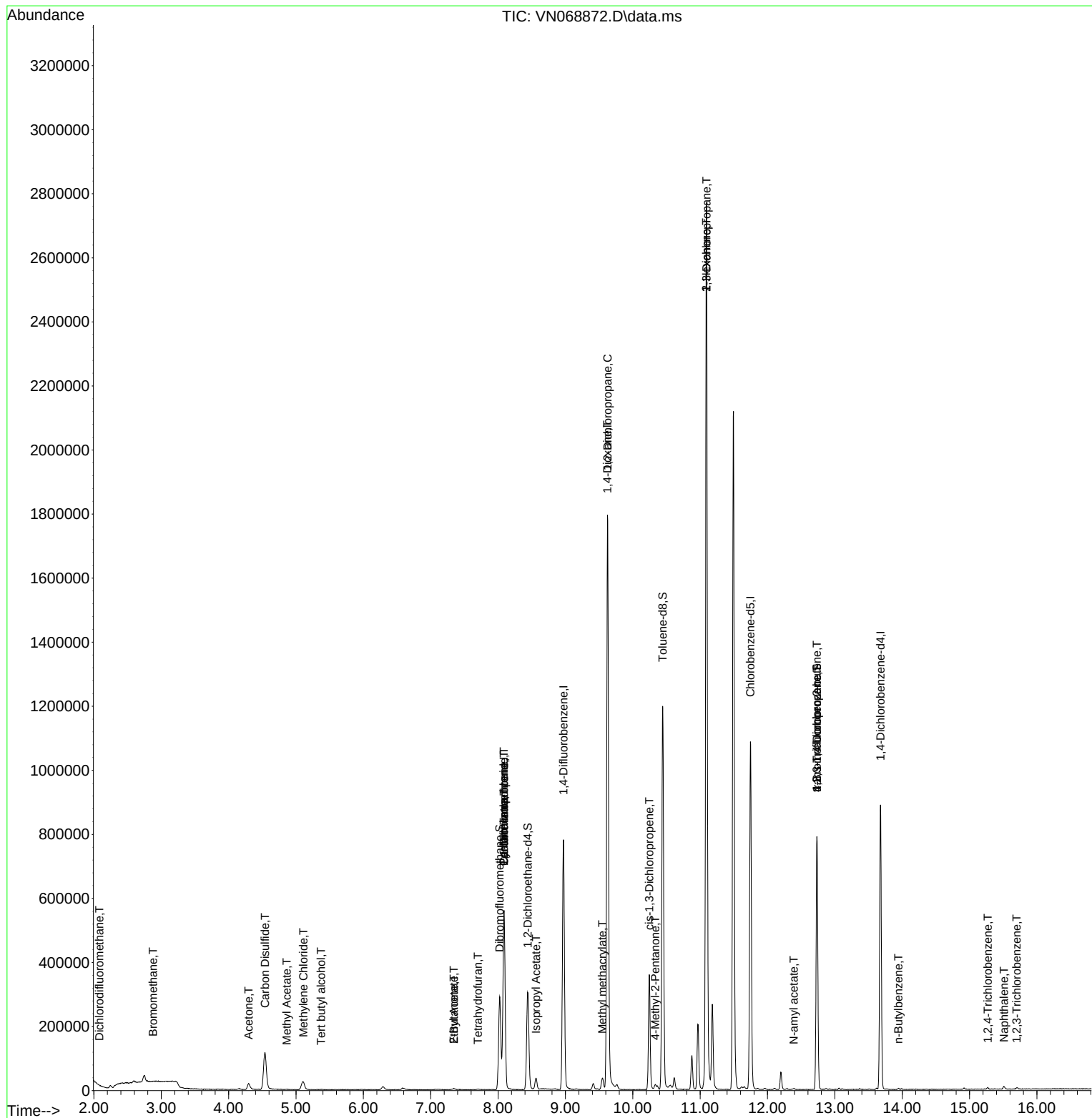
Internal Standards						
1) Pentafluorobenzene	8.088	168	428524	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.971	114	703991	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.746	117	643990	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.677	152	240334	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	261335	46.254	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	92.500%
35) Dibromofluoromethane	8.024	113	210239	51.329	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	102.660%
50) Toluene-d8	10.443	98	860285	52.494	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	104.980%
62) 4-Bromofluorobenzene	12.733	95	292475	47.302	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	94.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.081	85	167	1.274	ug/l #	42
5) Bromomethane	2.877	94	838	0.286	ug/l #	51
11) Tert butyl alcohol	5.371	59	616	0.597	ug/l #	72
16) Acetone	4.296	43	34774	16.493	ug/l	98
17) Carbon Disulfide	4.540	76	260555	23.186	ug/l	100
18) Methyl Acetate	4.862	43	2248	0.281	ug/l #	72
20) Methylene Chloride	5.109	84	21822	4.497	ug/l	94
25) 2-Butanone	7.343	43	6135	1.924	ug/l	96
29) Tetrahydrofuran	7.702	42	1097	0.530	ug/l	96
31) Cyclohexane	8.088	56	9162	1.043	ug/l #	1
36) 1,1-Dichloropropene	8.088	75	33608	5.589	ug/l #	50
37) Ethyl Acetate	7.343	43	6135	0.988	ug/l #	68
38) Carbon Tetrachloride	8.088	117	43543	6.593	ug/l #	16
43) Isopropyl Acetate	8.563	43	42201	3.851	ug/l #	92
45) 1,2-Dichloropropane	9.625	63	2115	0.445	ug/l #	43
48) Methyl methacrylate	9.547	41	8601	1.671	ug/l #	13
49) 1,4-Dioxane	9.622	88	102	36.614	ug/l #	1
51) 4-Methyl-2-Pentanone	10.336	43	8582	1.351	ug/l #	81
54) cis-1,3-Dichloropropene	10.245	75	68546	8.654	ug/l #	57
57) 1,3-Dichloropropane	11.095	76	30894	4.034	ug/l #	42
59) 2-Hexanone	11.092	43	458205	100.562	ug/l #	50
74) N-amyl acetate	12.390	43	1771	0.234	ug/l #	77
76) 1,2,3-Trichloropropane	12.733	75	148734	29.086	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.733	75	148734	69.586	ug/l #	12
89) n-Butylbenzene	13.943	91	2868	0.214	ug/l	92
93) 1,2,4-Trichlorobenzene	15.271	180	1666	2.993	ug/l	95
95) Naphthalene	15.512	128	7662	4.446	ug/l	98
96) 1,2,3-Trichlorobenzene	15.700	180	1713	2.937	ug/l	92

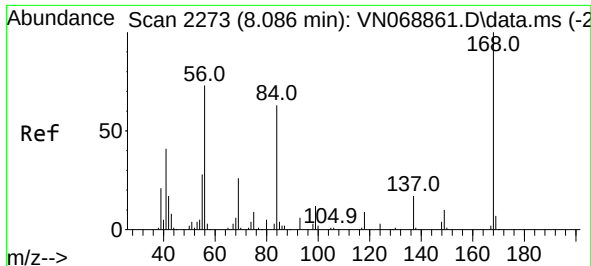
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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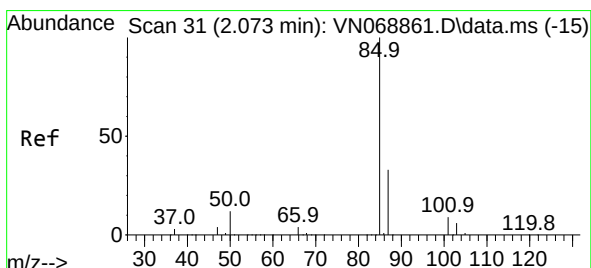
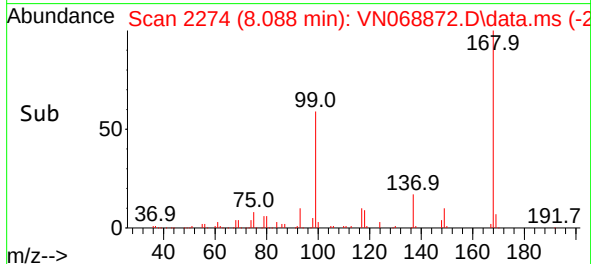
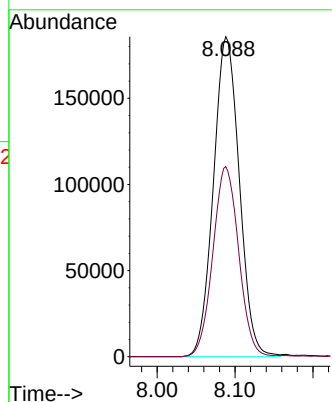
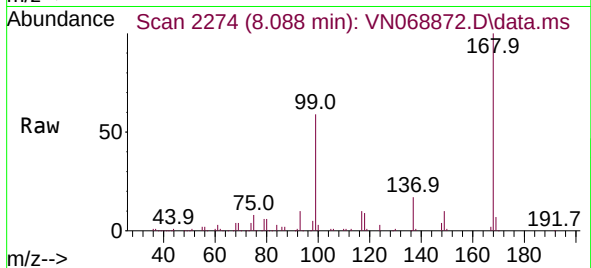




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. 0.002 min
Lab File: VN068872.D
Acq: 12 Oct 2021 19:50

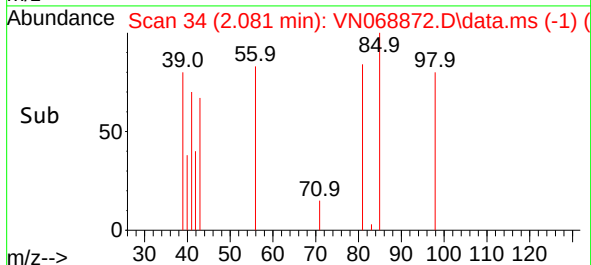
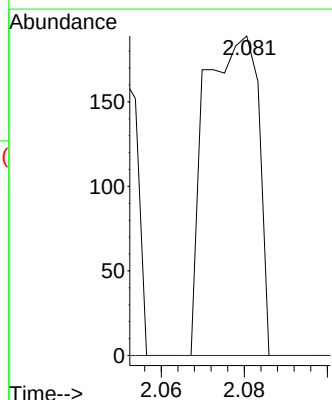
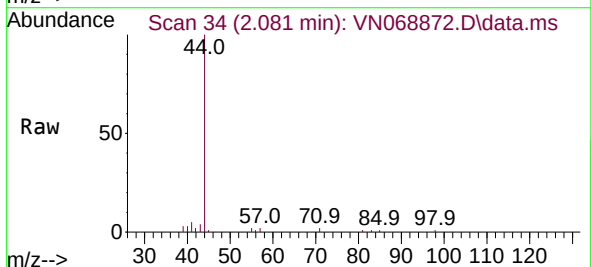
Instrument :
MSVOA_N
ClientSampled :

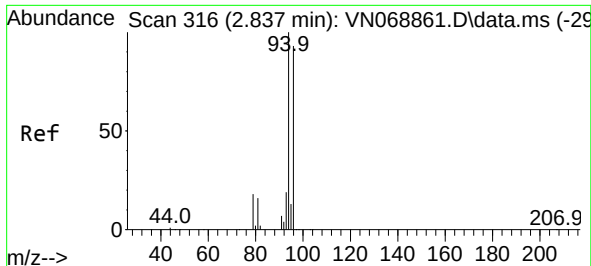
Tgt Ion:168 Resp: 428524
Ion Ratio Lower Upper
168 100
99 59.4 48.9 73.3



#2
Dichlorodifluoromethane
Concen: 1.274 ug/l
RT: 2.081 min Scan# 34
Delta R.T. 0.008 min
Lab File: VN068872.D
Acq: 12 Oct 2021 19:50

Tgt Ion: 85 Resp: 167
Ion Ratio Lower Upper
85 100
87 0.0 16.3 48.8#

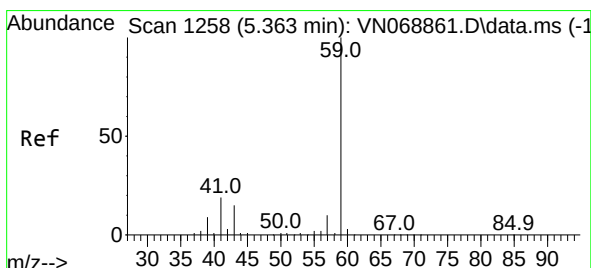
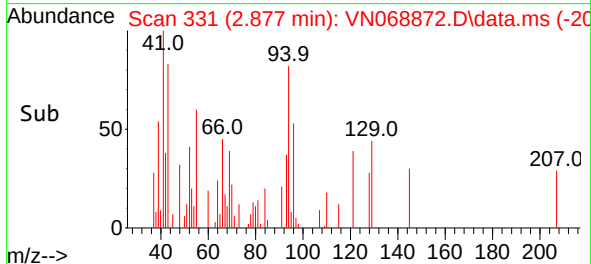
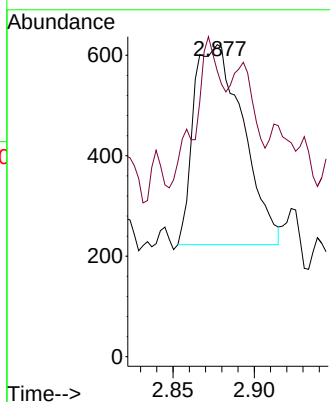
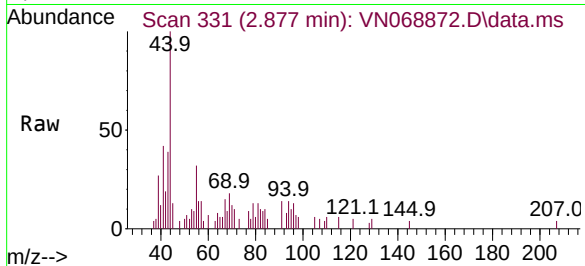




#5
Bromomethane
Concen: 0.286 ug/l
RT: 2.877 min Scan# 331
Delta R.T. 0.040 min
Lab File: VN068872.D
Acq: 12 Oct 2021 19:50

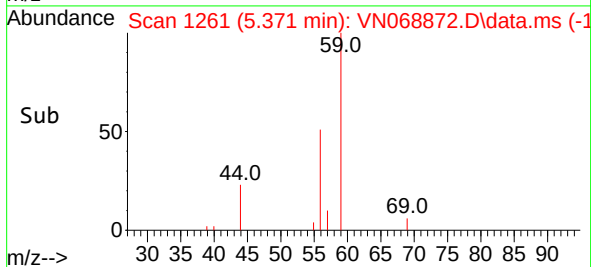
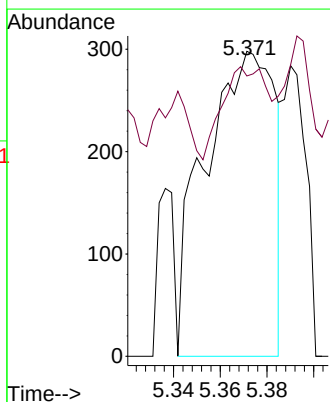
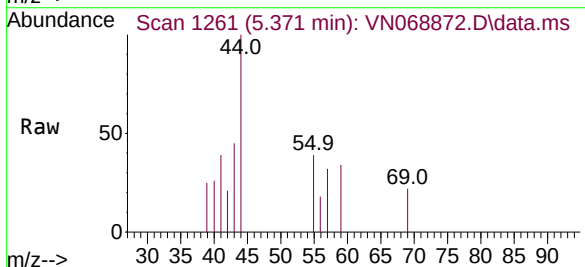
Instrument :
MSVOA_N
ClientSampled :

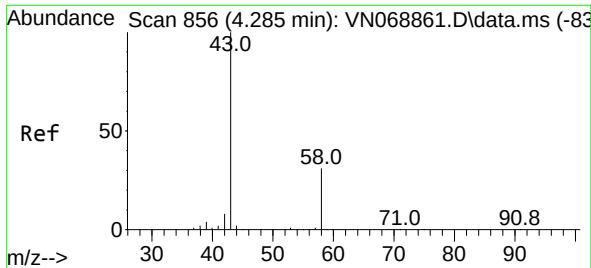
Tgt Ion: 94 Resp: 838
Ion Ratio Lower Upper
94 100
96 45.5 74.2 111.4#



#11
Tert butyl alcohol
Concen: 0.597 ug/l
RT: 5.371 min Scan# 1261
Delta R.T. 0.008 min
Lab File: VN068872.D
Acq: 12 Oct 2021 19:50

Tgt Ion: 59 Resp: 616
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

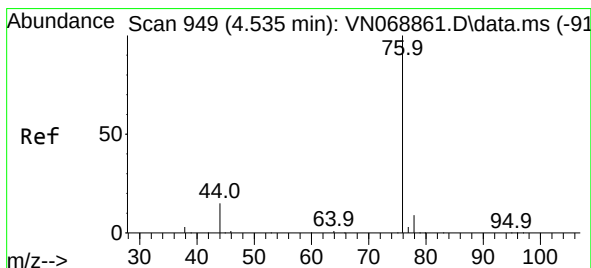
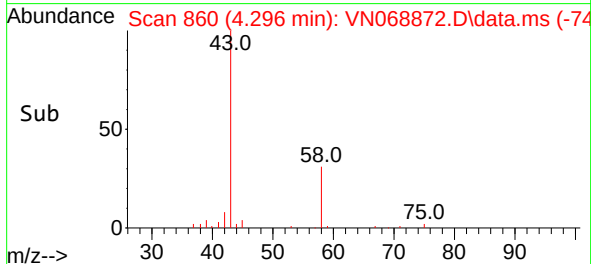
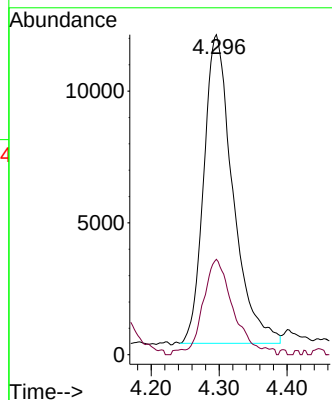
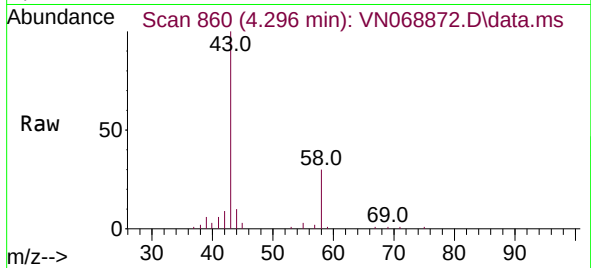




#16
Acetone
Concen: 16.493 ug/l
RT: 4.296 min Scan# 860
Delta R.T. 0.011 min
Lab File: VN068872.D
Acq: 12 Oct 2021 19:50

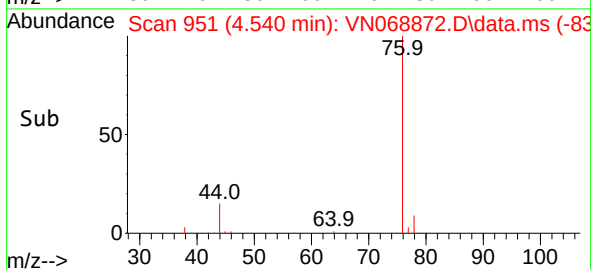
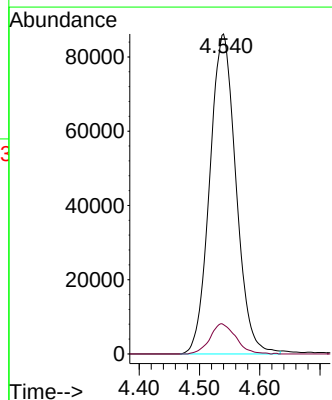
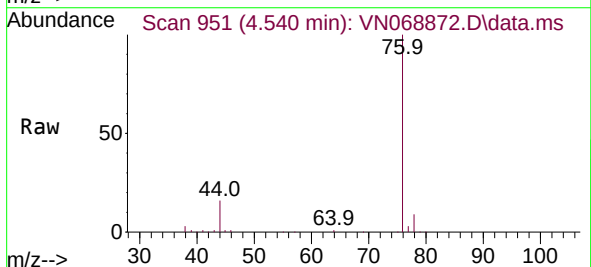
Instrument :
MSVOA_N
ClientSampled :

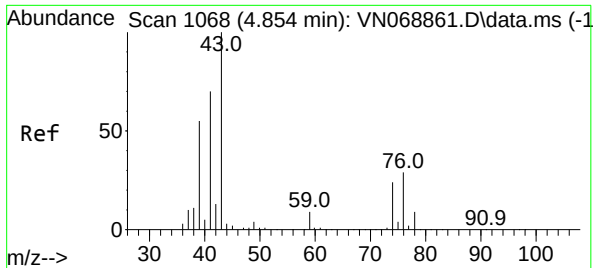
Tgt Ion: 43 Resp: 34774
Ion Ratio Lower Upper
43 100
58 29.6 24.5 36.7



#17
Carbon Disulfide
Concen: 23.186 ug/l
RT: 4.540 min Scan# 951
Delta R.T. 0.005 min
Lab File: VN068872.D
Acq: 12 Oct 2021 19:50

Tgt Ion: 76 Resp: 260555
Ion Ratio Lower Upper
76 100
78 9.2 7.2 10.8





#18

Methyl Acetate

Concen: 0.281 ug/l

RT: 4.862 min Scan# 1071

Delta R.T. 0.008 min

Lab File: VN068872.D

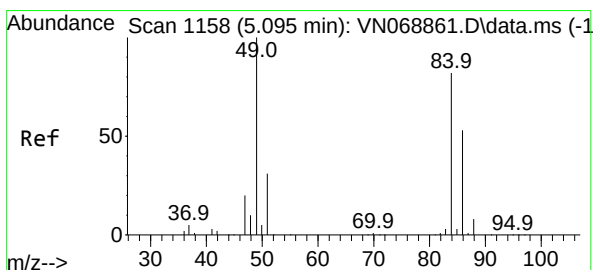
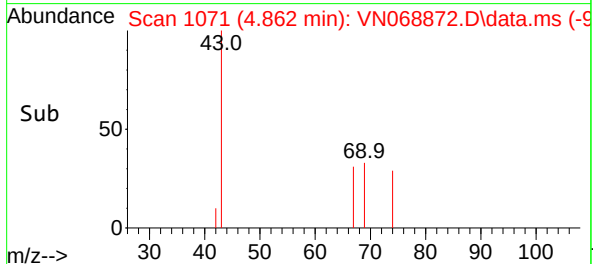
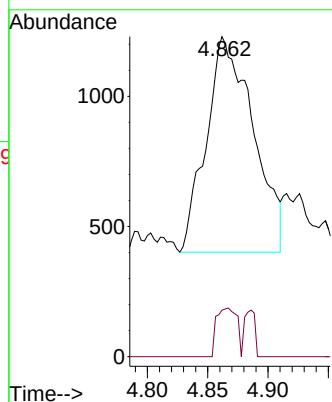
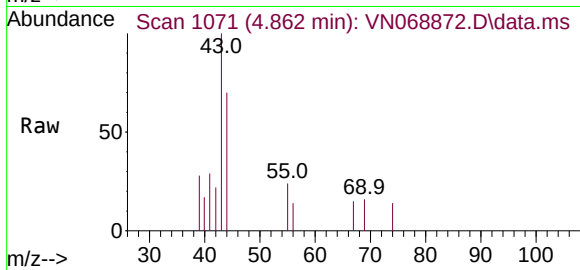
Acq: 12 Oct 2021 19:50

Tgt Ion: 43 Resp: 2248

Ion Ratio Lower Upper

43 100

74 9.7 18.9 28.3#



#20

Methylene Chloride

Concen: 4.497 ug/l

RT: 5.109 min Scan# 1163

Delta R.T. 0.013 min

Lab File: VN068872.D

Acq: 12 Oct 2021 19:50

Tgt Ion: 84 Resp: 21822

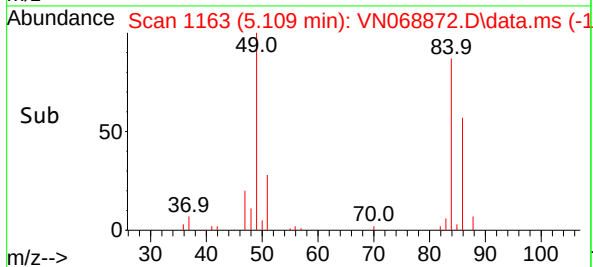
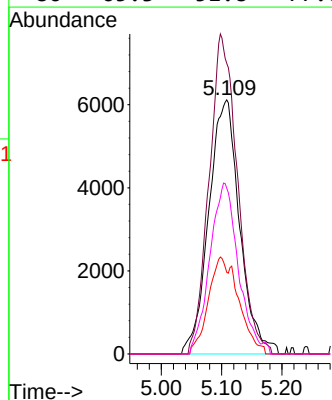
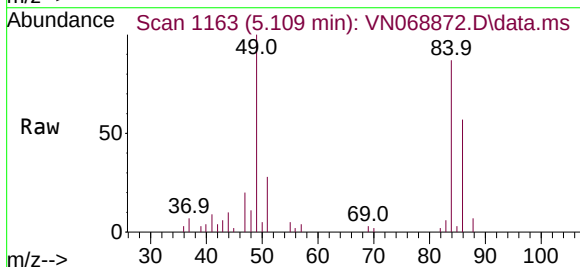
Ion Ratio Lower Upper

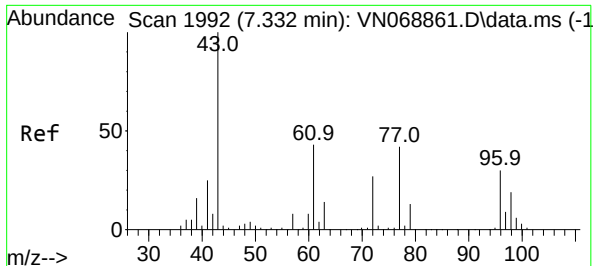
84 100

49 114.4 97.6 146.4

51 32.1 30.3 45.5

86 65.3 51.8 77.6





#25

2-Butanone

Concen: 1.924 ug/l

RT: 7.343 min Scan# 1996

Delta R.T. 0.011 min

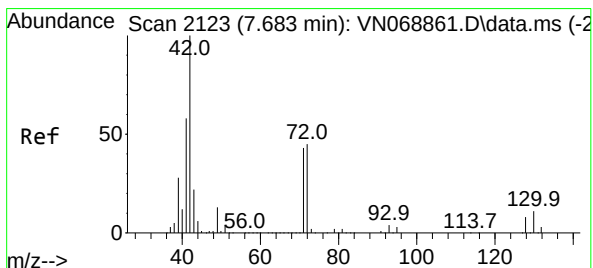
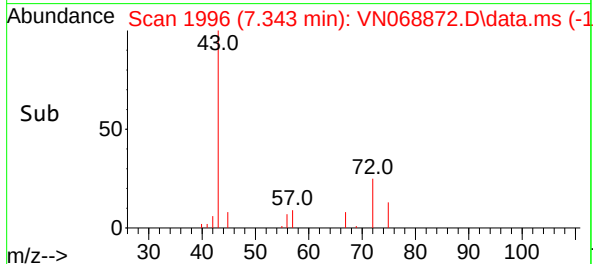
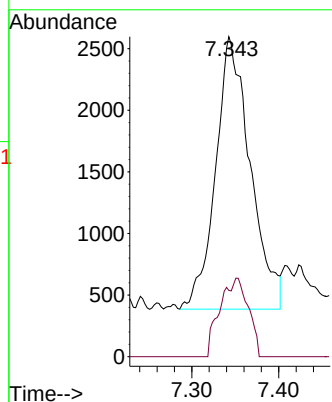
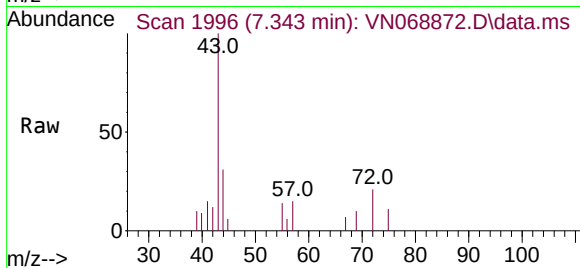
Lab File: VN068872.D

Acq: 12 Oct 2021 19:50

Tgt Ion: 43 Resp: 6135

Ion Ratio Lower Upper

43	100		
72	24.3	21.2	31.8



#29

Tetrahydrofuran

Concen: 0.530 ug/l

RT: 7.702 min Scan# 2130

Delta R.T. 0.019 min

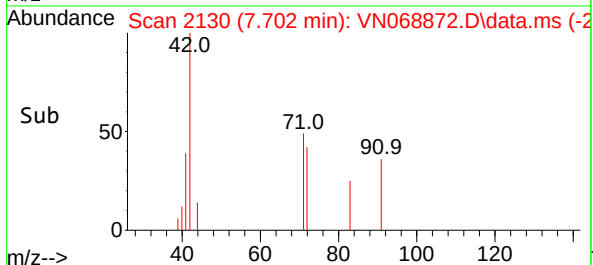
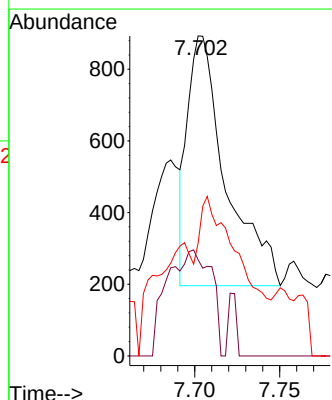
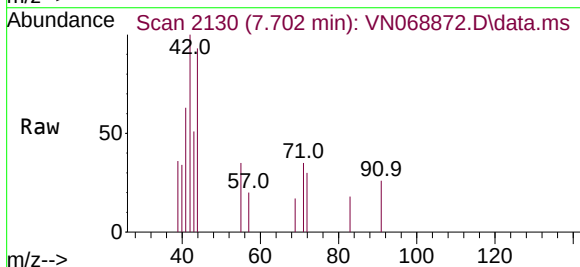
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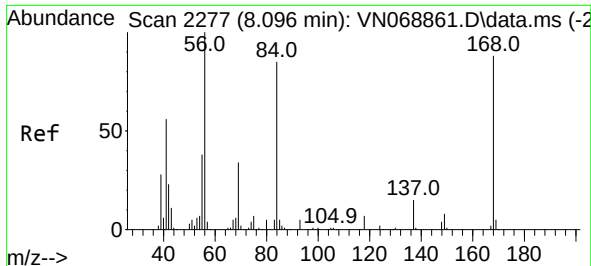
Acq: 12 Oct 2021 19:50

Tgt Ion: 42 Resp: 1097

Ion Ratio Lower Upper

42	100		
72	48.8	35.4	53.2
71	41.1	33.8	50.6

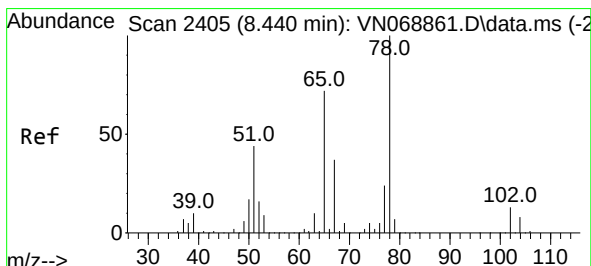
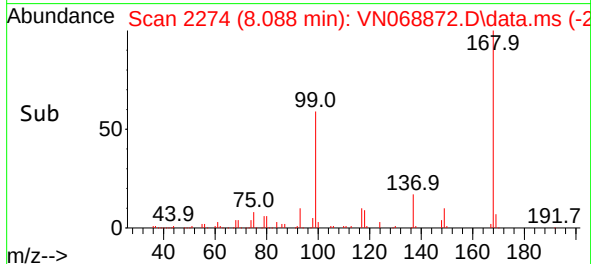
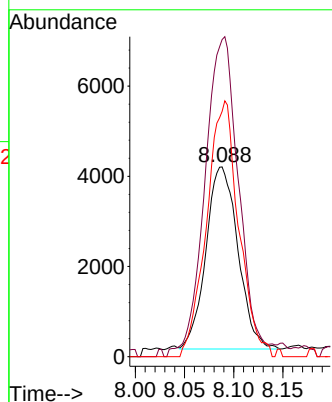
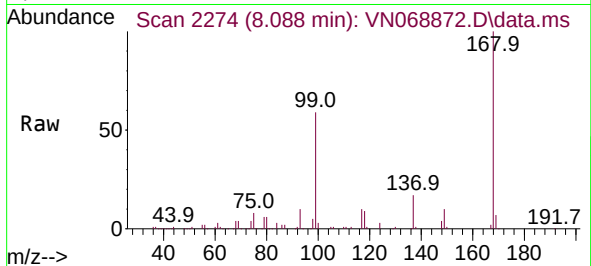




#31
Cyclohexane
Concen: 1.043 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.008 min
Lab File: VN068872.D
Acq: 12 Oct 2021 19:50

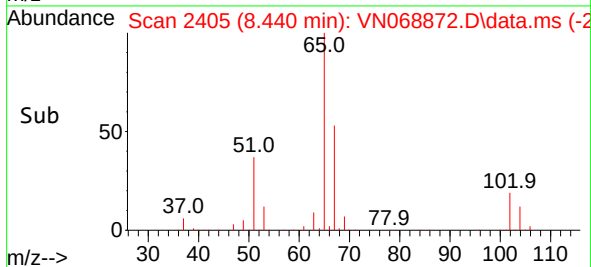
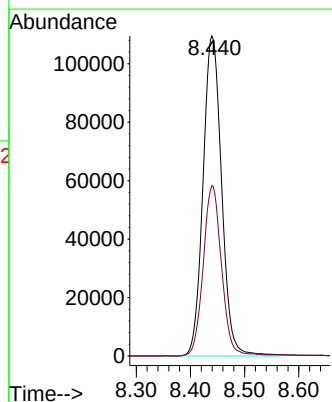
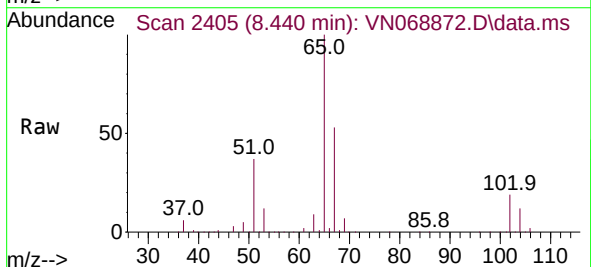
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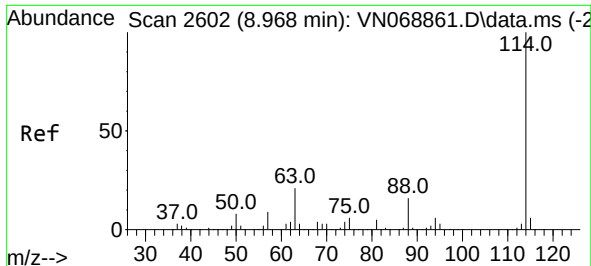
Tgt Ion: 56 Resp: 9162
Ion Ratio Lower Upper
56 100
69 168.3 26.9 40.3#
84 134.7 67.6 101.4#



#33
1,2-Dichloroethane-d4
Concen: 46.254 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. -0.000 min
Lab File: VN068872.D
Acq: 12 Oct 2021 19:50

Tgt Ion: 65 Resp: 261335
Ion Ratio Lower Upper
65 100
67 52.4 0.0 103.8

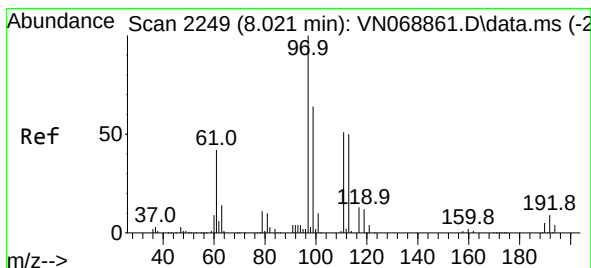
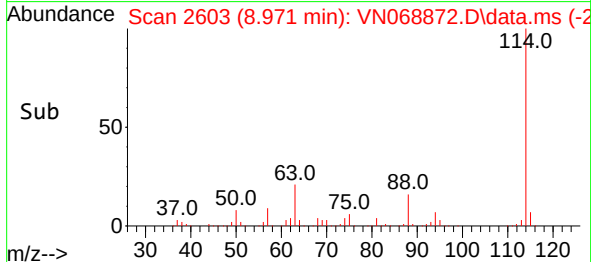
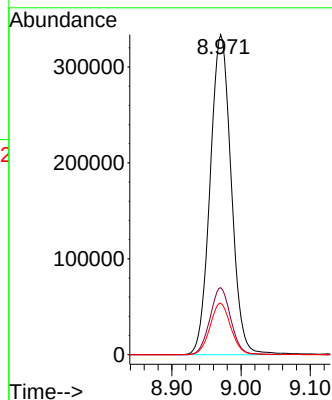
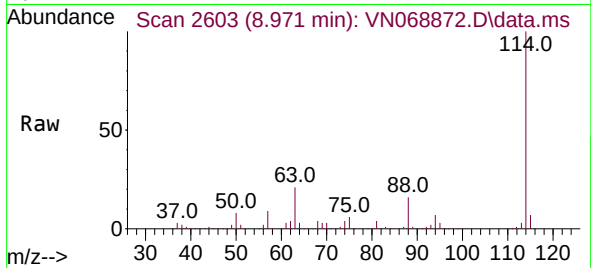




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.971 min Scan# 2603
Delta R.T. 0.003 min
Lab File: VN068872.D
Acq: 12 Oct 2021 19:50

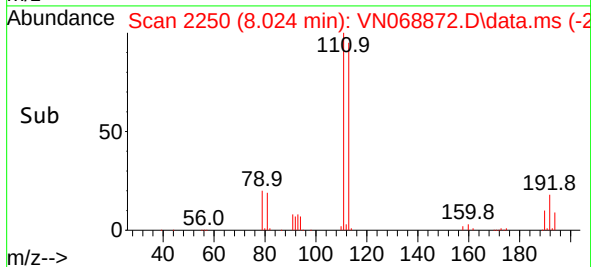
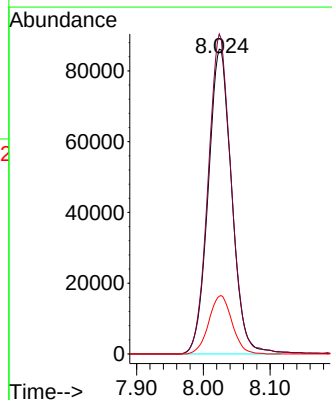
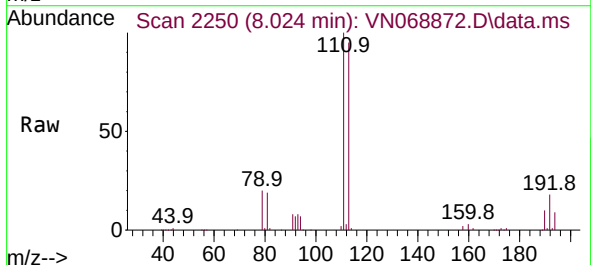
Instrument :
MSVOA_N
ClientSampled :

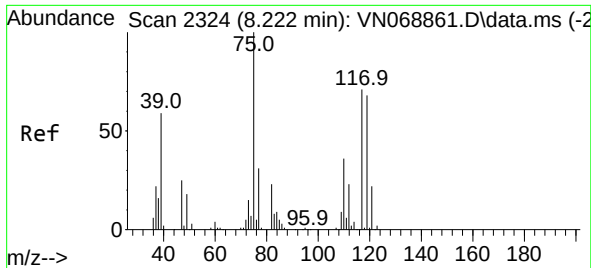
Tgt Ion:114 Resp: 703991
Ion Ratio Lower Upper
114 100
63 20.9 0.0 42.6
88 16.1 0.0 32.0



#35
Dibromofluoromethane
Concen: 51.329 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. 0.003 min
Lab File: VN068872.D
Acq: 12 Oct 2021 19:50

Tgt Ion:113 Resp: 210239
Ion Ratio Lower Upper
113 100
111 104.0 83.2 124.8
192 19.0 15.0 22.4

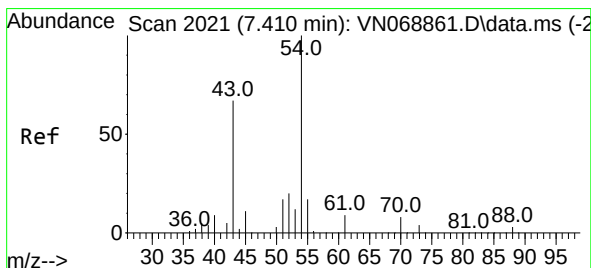
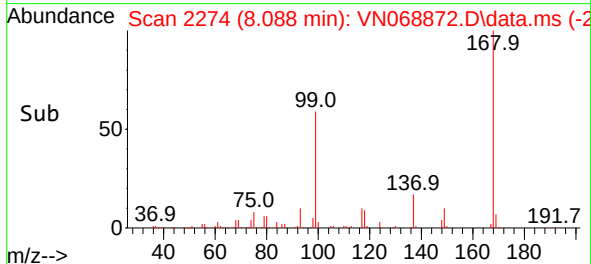
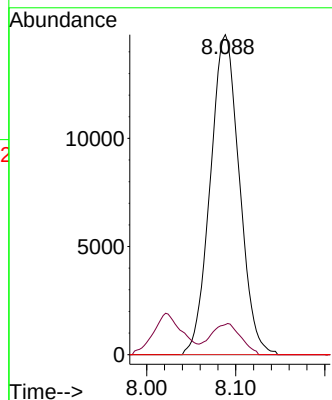
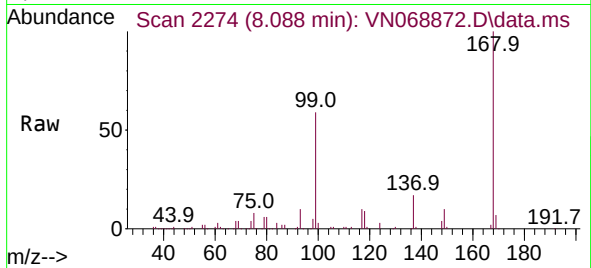




#36
1,1-Dichloropropene
Concen: 5.589 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.134 min
Lab File: VN068872.D
Acq: 12 Oct 2021 19:50

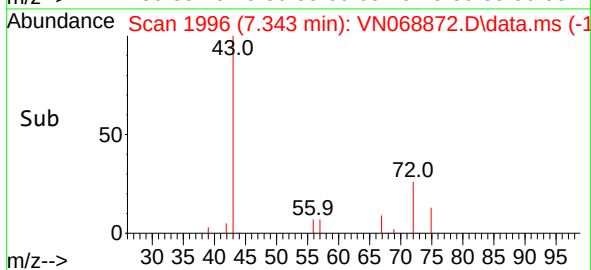
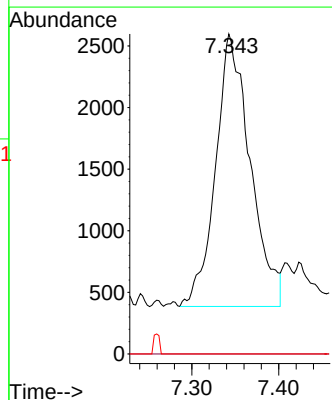
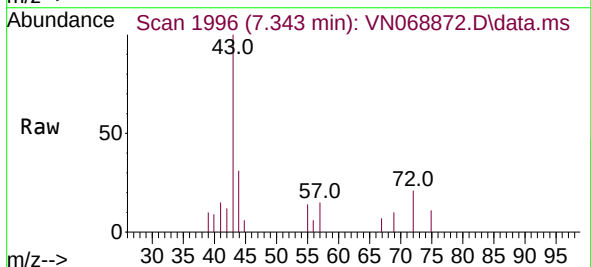
Instrument :
MSVOA_N
ClientSampled :

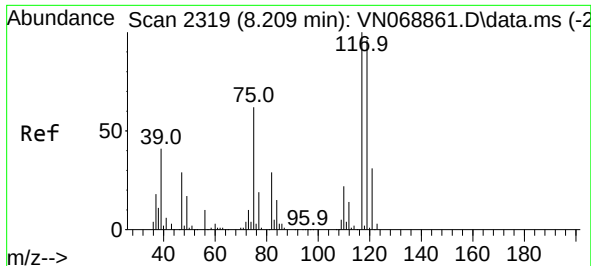
Tgt Ion: 75 Resp: 33608
Ion Ratio Lower Upper
75 100
110 9.9 17.9 53.8#
77 0.0 24.7 37.1#



#37
Ethyl Acetate
Concen: 0.988 ug/l
RT: 7.343 min Scan# 1996
Delta R.T. -0.067 min
Lab File: VN068872.D
Acq: 12 Oct 2021 19:50

Tgt Ion: 43 Resp: 6135
Ion Ratio Lower Upper
43 100
61 0.0 11.2 16.8#
70 0.0 8.4 12.6#

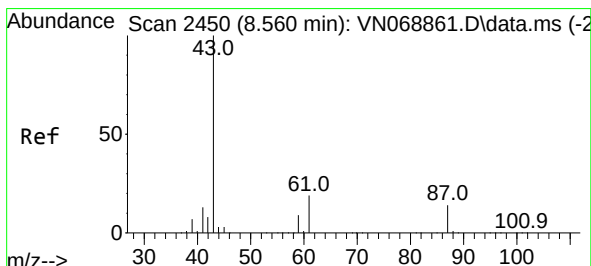
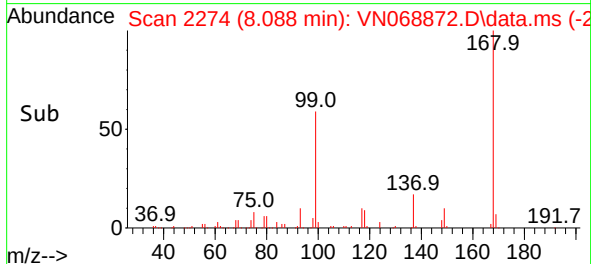
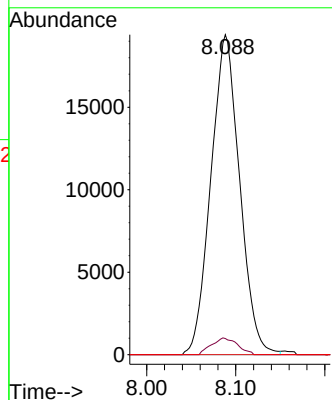
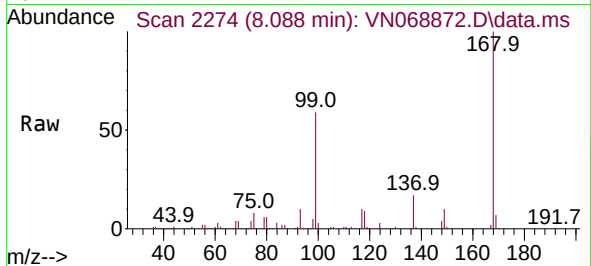




#38
Carbon Tetrachloride
Concen: 6.593 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.121 min
Lab File: VN068872.D
Acq: 12 Oct 2021 19:50

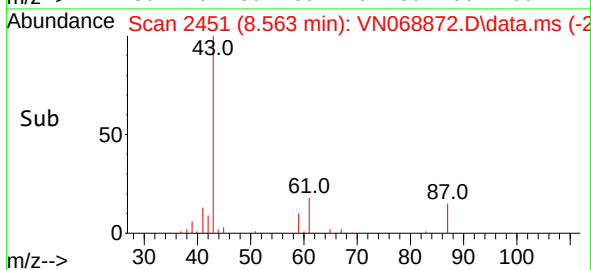
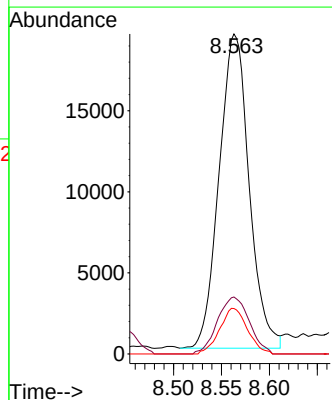
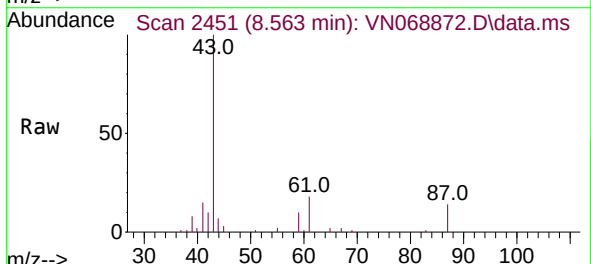
Instrument :
MSVOA_N
ClientSampled :

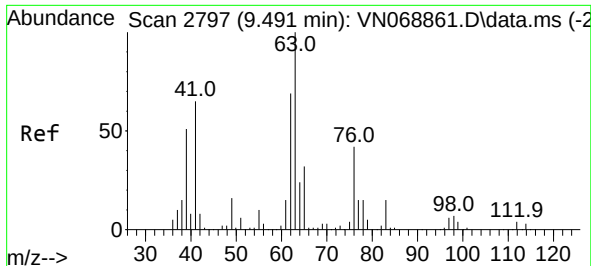
Tgt Ion:117 Resp: 43543
Ion Ratio Lower Upper
117 100
119 5.1 76.9 115.3#
121 0.0 24.6 37.0#



#43
Isopropyl Acetate
Concen: 3.851 ug/l
RT: 8.563 min Scan# 2451
Delta R.T. 0.003 min
Lab File: VN068872.D
Acq: 12 Oct 2021 19:50

Tgt Ion: 43 Resp: 42201
Ion Ratio Lower Upper
43 100
61 19.2 20.4 30.6#
87 13.5 10.7 16.1

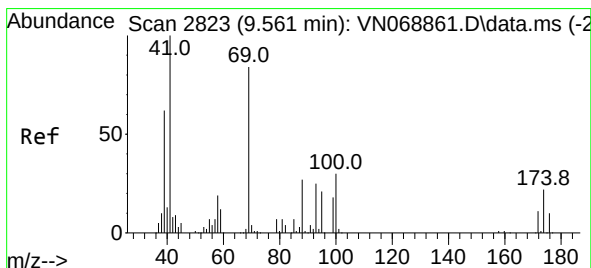
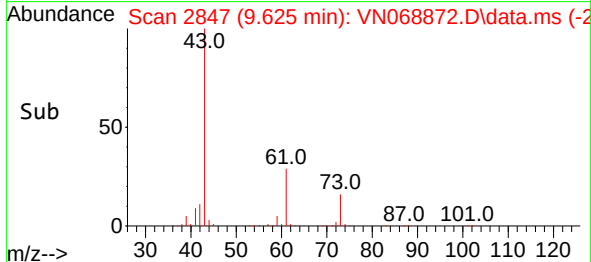
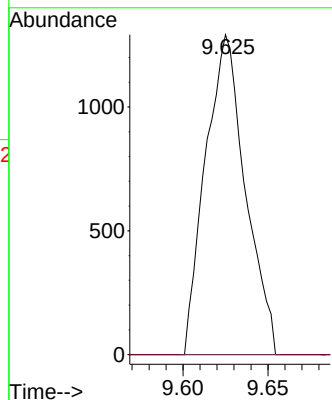
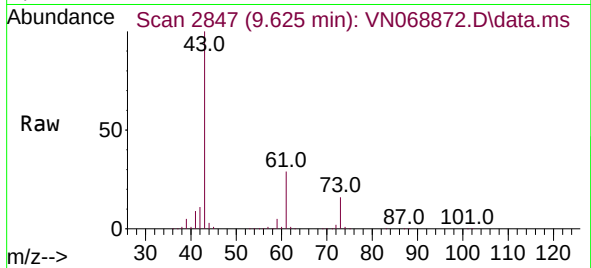




#45
1,2-Dichloropropane
Concen: 0.445 ug/l
RT: 9.625 min Scan# 2847
Delta R.T. 0.134 min
Lab File: VN068872.D
Acq: 12 Oct 2021 19:50

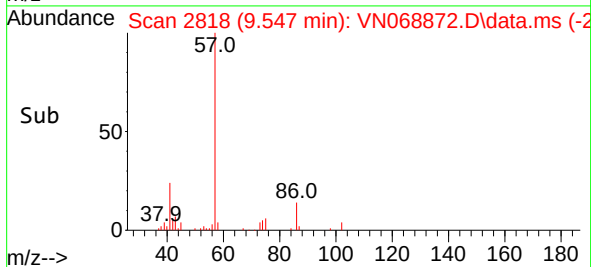
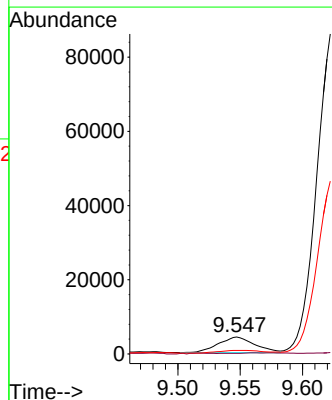
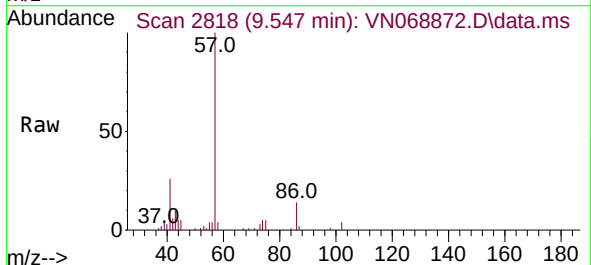
Instrument :
MSVOA_N
ClientSampled :

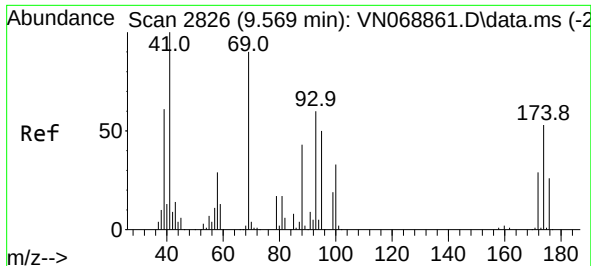
Tgt Ion: 63 Resp: 2115
Ion Ratio Lower Upper
63 100
65 0.0 25.6 38.4#



#48
Methyl methacrylate
Concen: 1.671 ug/l
RT: 9.547 min Scan# 2818
Delta R.T. -0.014 min
Lab File: VN068872.D
Acq: 12 Oct 2021 19:50

Tgt Ion: 41 Resp: 8601
Ion Ratio Lower Upper
41 100
69 1.1 66.4 99.6#
39 0.0 50.2 75.2#

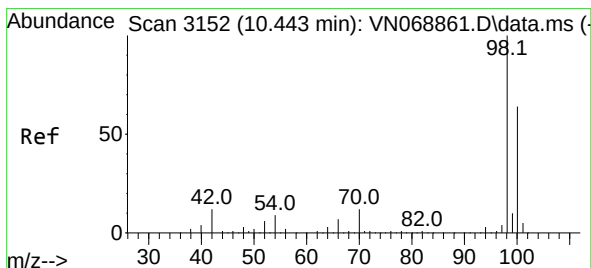
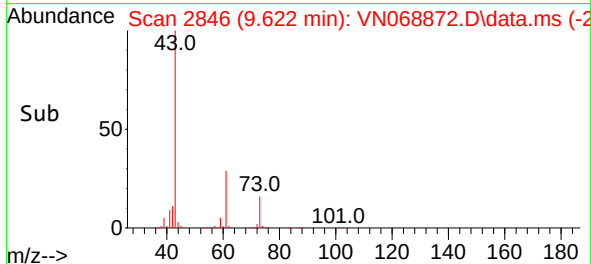
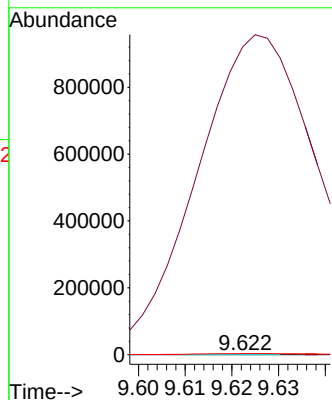
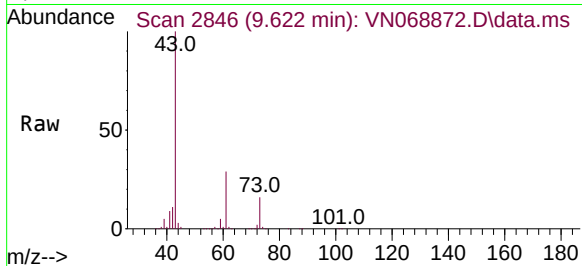




#49
1,4-Dioxane
Concen: 36.614 ug/l
RT: 9.622 min Scan# 2846
Delta R.T. 0.053 min
Lab File: VN068872.D
Acq: 12 Oct 2021 19:50

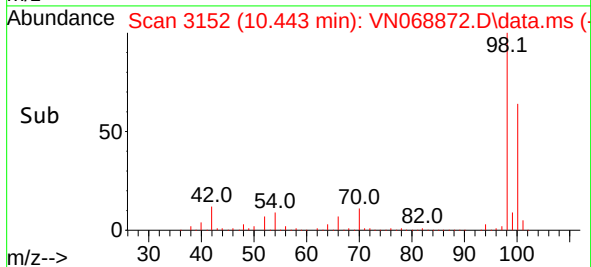
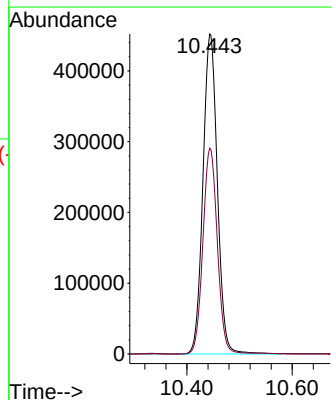
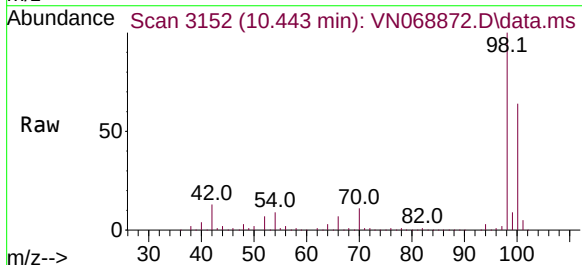
Instrument :
MSVOA_N
ClientSampled :

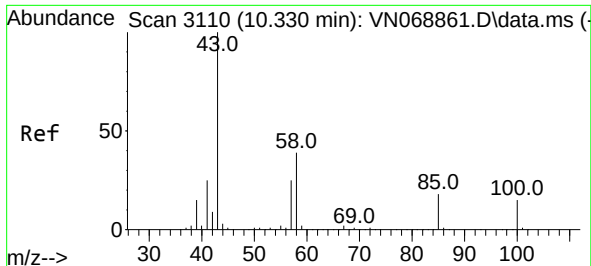
Tgt Ion: 88 Resp: 102
Ion Ratio Lower Upper
88 100
43 1810461.8 24.9 37.3#
58 6418.6 56.9 85.3#



#50
Toluene-d8
Concen: 52.494 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. -0.000 min
Lab File: VN068872.D
Acq: 12 Oct 2021 19:50

Tgt Ion: 98 Resp: 860285
Ion Ratio Lower Upper
98 100
100 64.2 51.5 77.3

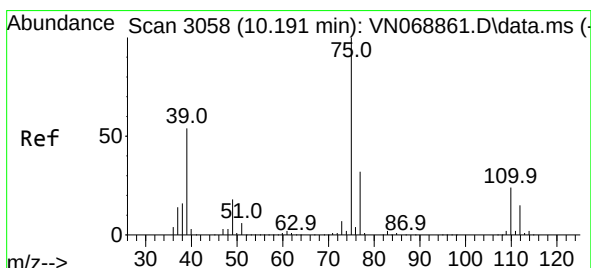
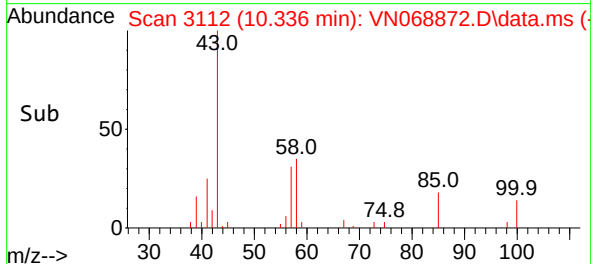
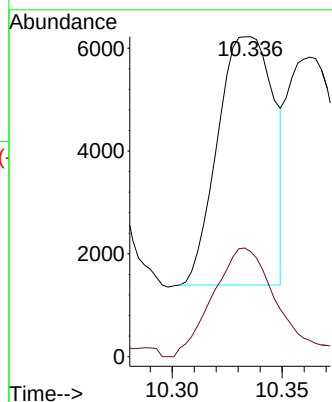
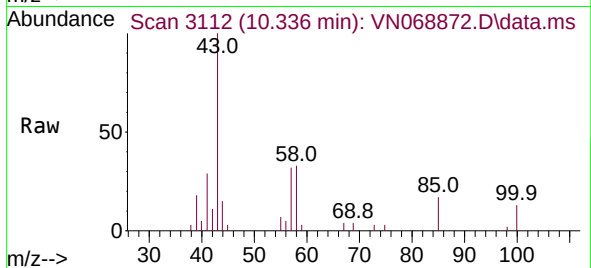




#51
4-Methyl-2-Pentanone
Concen: 1.351 ug/l
RT: 10.336 min Scan# 3112
Delta R.T. 0.005 min
Lab File: VN068872.D
Acq: 12 Oct 2021 19:50

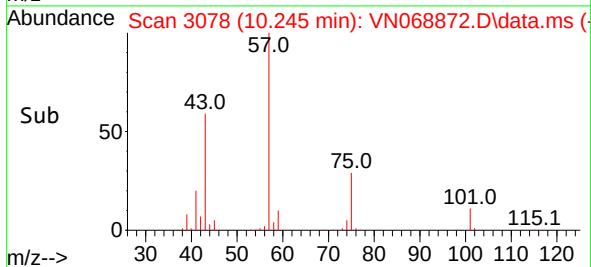
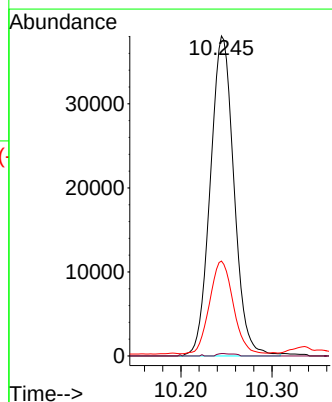
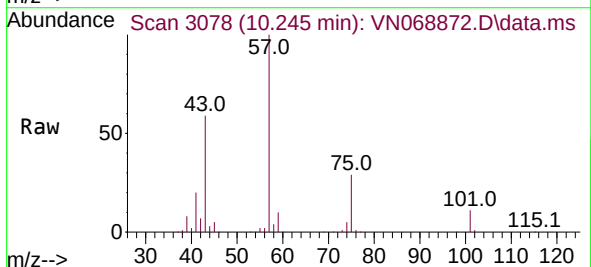
Instrument :
MSVOA_N
ClientSampled :

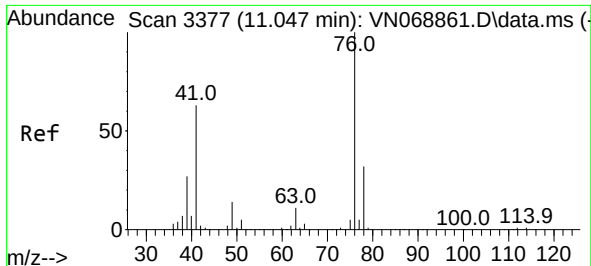
Tgt Ion: 43 Resp: 8582
Ion Ratio Lower Upper
43 100
58 50.4 31.0 46.4#



#54
cis-1,3-Dichloropropene
Concen: 8.654 ug/l
RT: 10.245 min Scan# 3078
Delta R.T. 0.054 min
Lab File: VN068872.D
Acq: 12 Oct 2021 19:50

Tgt Ion: 75 Resp: 68546
Ion Ratio Lower Upper
75 100
77 0.8 25.6 38.4#
39 29.0 42.9 64.3#

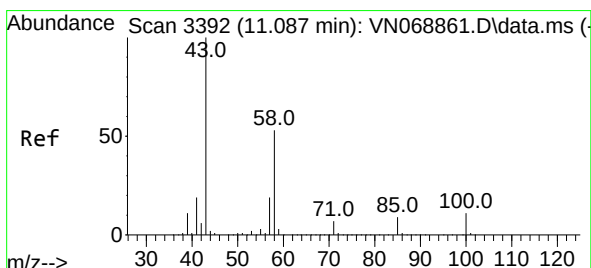
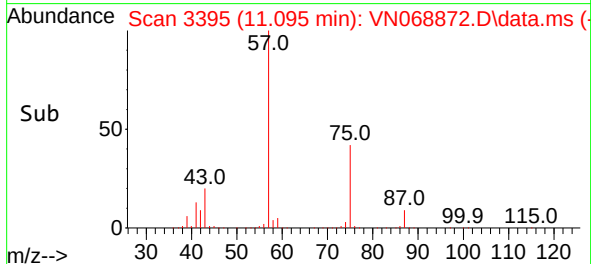
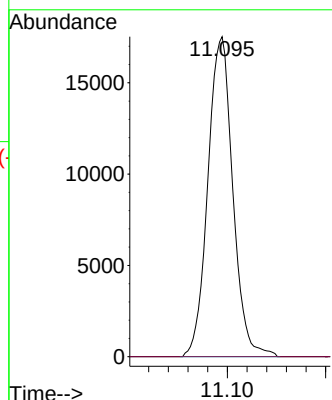
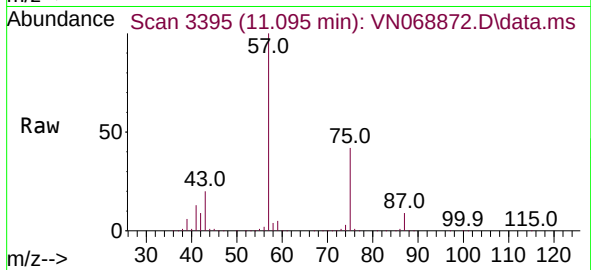




#57
1,3-Dichloropropane
Concen: 4.034 ug/l
RT: 11.095 min Scan# 3395
Delta R.T. 0.048 min
Lab File: VN068872.D
Acq: 12 Oct 2021 19:50

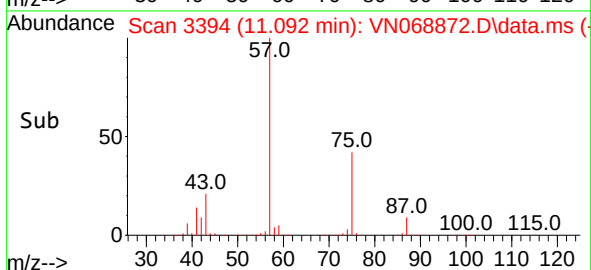
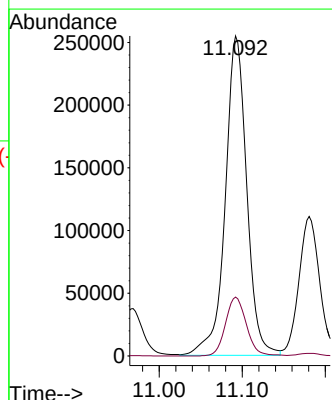
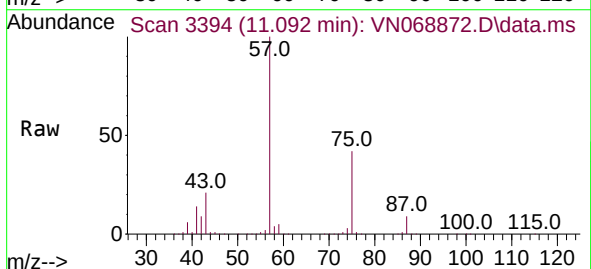
Instrument :
MSVOA_N
ClientSampled :

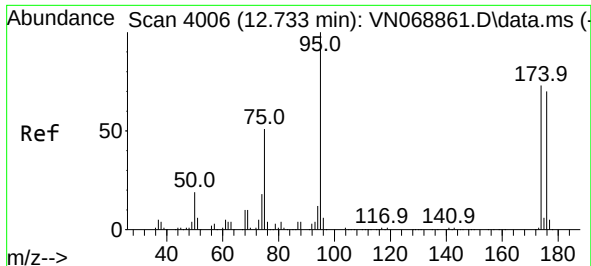
Tgt Ion: 76 Resp: 30894
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.8#



#59
2-Hexanone
Concen: 100.562 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.005 min
Lab File: VN068872.D
Acq: 12 Oct 2021 19:50

Tgt Ion: 43 Resp: 458205
Ion Ratio Lower Upper
43 100
58 18.0 26.9 80.7#

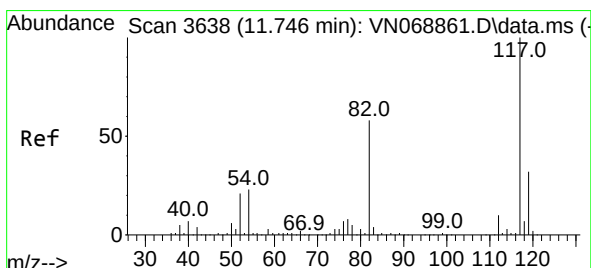
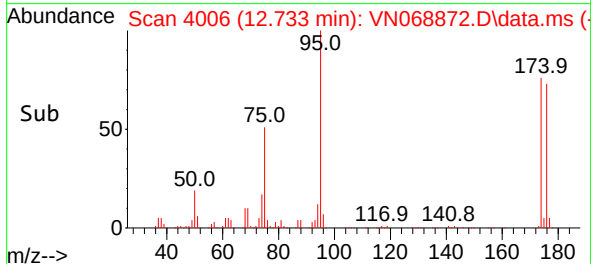
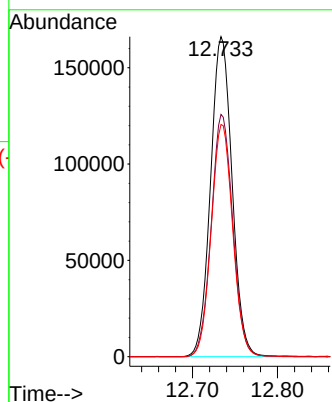
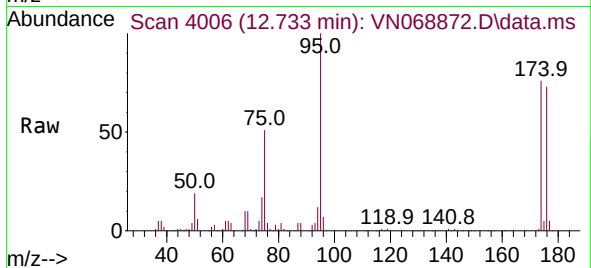




#62
4-Bromofluorobenzene
Concen: 47.302 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.000 min
Lab File: VN068872.D
Acq: 12 Oct 2021 19:50

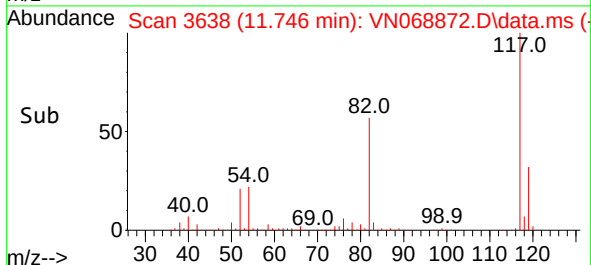
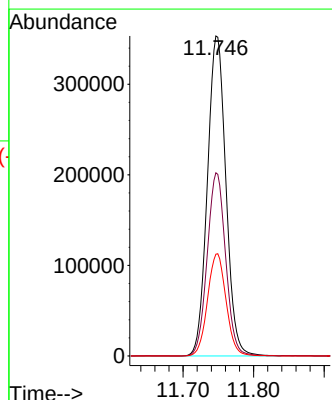
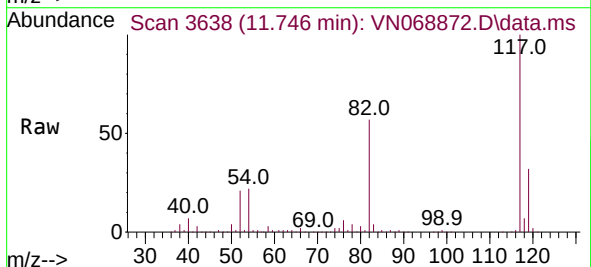
Instrument :
MSVOA_N
ClientSampleId :

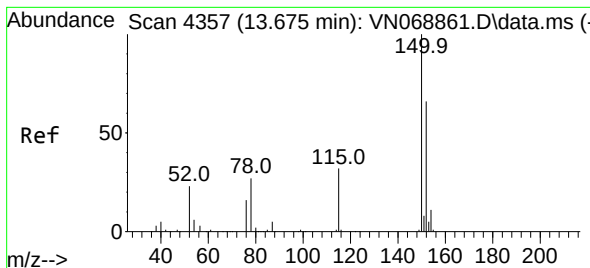
Tgt Ion: 95 Resp: 292475
Ion Ratio Lower Upper
95 100
174 75.8 0.0 144.8
176 72.4 0.0 140.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.746 min Scan# 3638
Delta R.T. -0.000 min
Lab File: VN068872.D
Acq: 12 Oct 2021 19:50

Tgt Ion: 117 Resp: 643990
Ion Ratio Lower Upper
117 100
82 57.3 46.4 69.6
119 31.8 26.0 39.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.677 min Scan# 4358

Delta R.T. 0.003 min

Lab File: VN068872.D

Acq: 12 Oct 2021 19:50

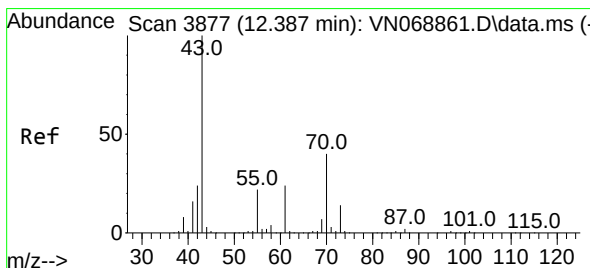
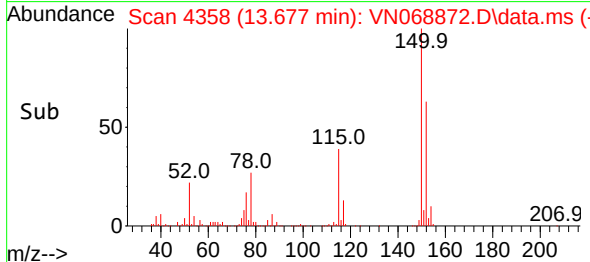
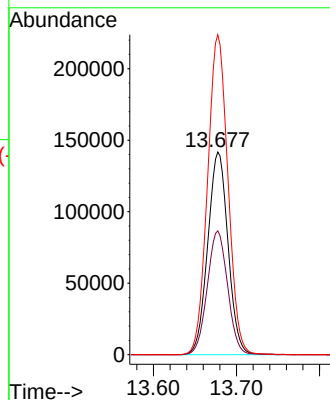
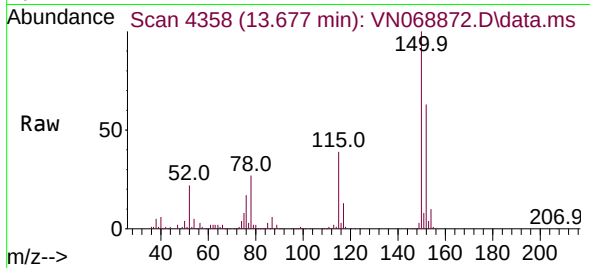
Tgt Ion:152 Resp: 240334

Ion Ratio Lower Upper

152 100

115 61.4 31.4 94.3

150 158.4 0.0 351.0



#74

N-ethyl acetate

Concen: 0.234 ug/l

RT: 12.390 min Scan# 3878

Delta R.T. 0.003 min

Lab File: VN068872.D

Acq: 12 Oct 2021 19:50

Tgt Ion: 43 Resp: 1771

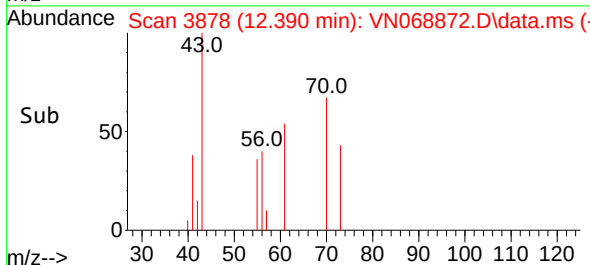
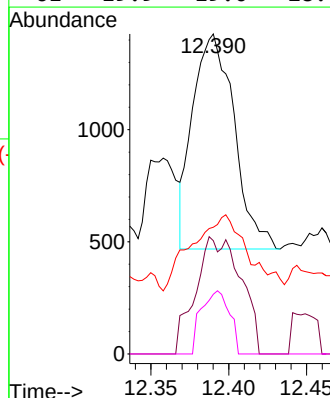
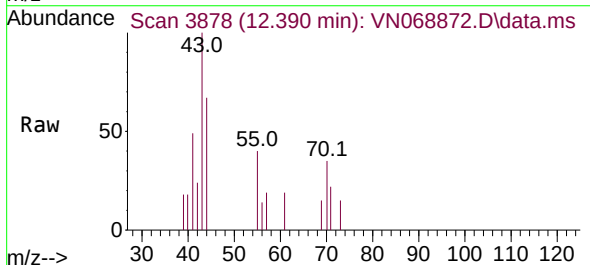
Ion Ratio Lower Upper

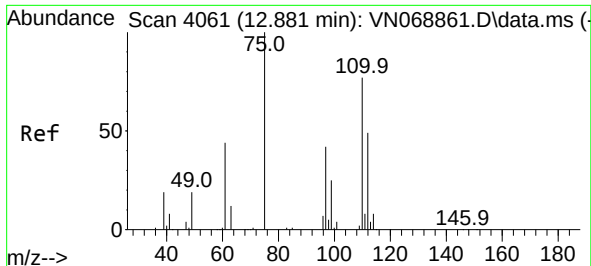
43 100

70 30.3 32.2 48.2#

55 47.8 18.0 27.0#

61 19.9 19.0 28.4

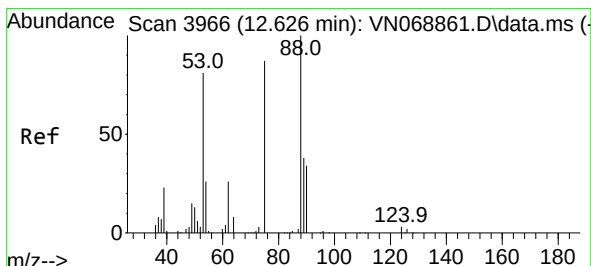
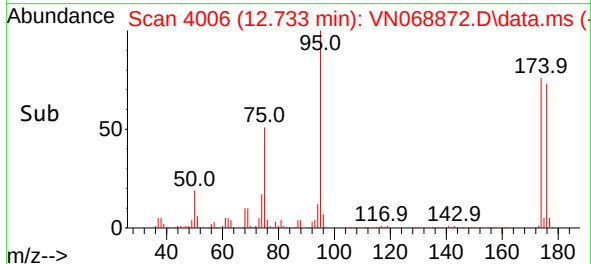
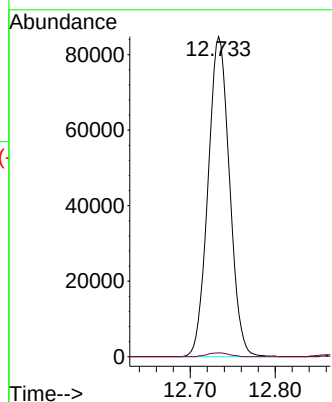
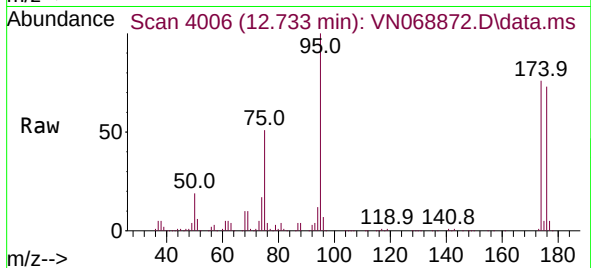




#76
1,2,3-Trichloropropane
Concen: 29.086 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.148 min
Lab File: VN068872.D
Acq: 12 Oct 2021 19:50

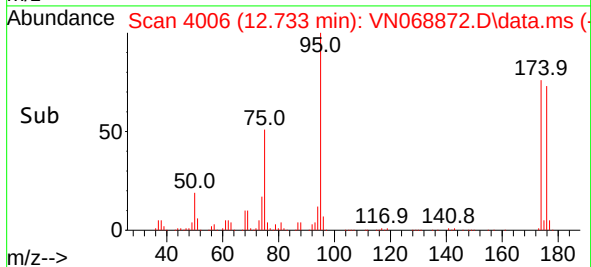
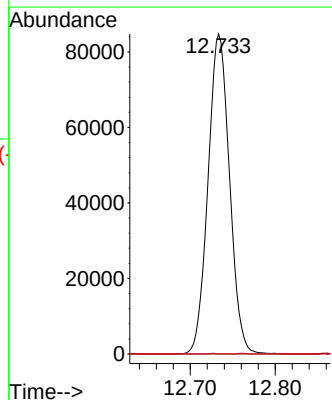
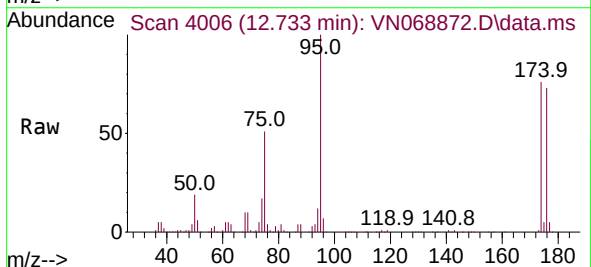
Instrument :
MSVOA_N
ClientSampled :

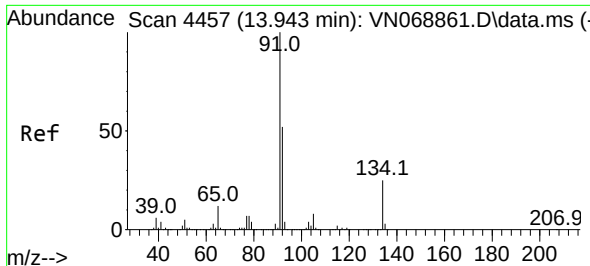
Tgt Ion: 75 Resp: 148734
Ion Ratio Lower Upper
75 100
77 1.2 96.2 288.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 69.586 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.107 min
Lab File: VN068872.D
Acq: 12 Oct 2021 19:50

Tgt Ion: 75 Resp: 148734
Ion Ratio Lower Upper
75 100
53 0.0 75.4 113.2#
89 0.0 36.9 55.3#

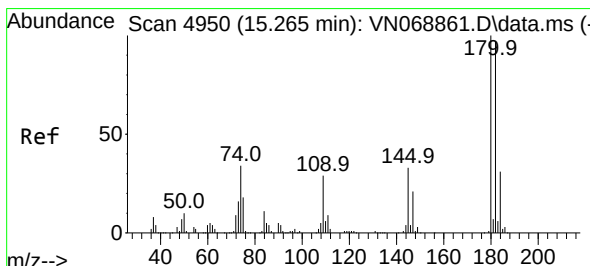
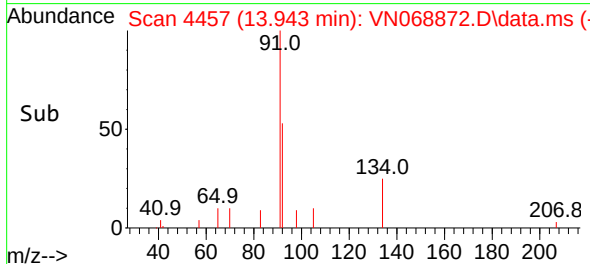
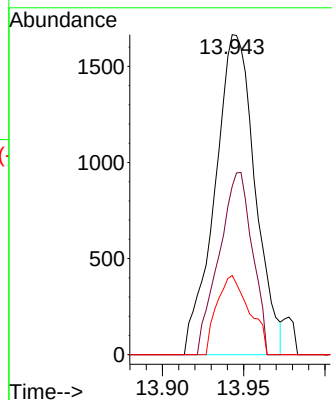
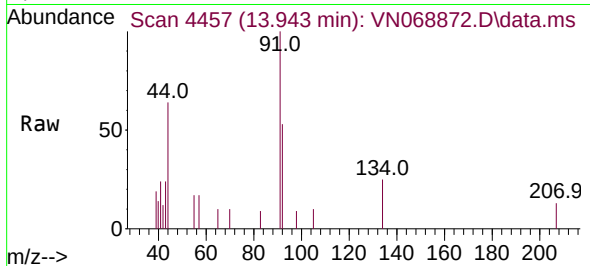




#89
n-Butylbenzene
Concen: 0.214 ug/l
RT: 13.943 min Scan# 4457
Delta R.T. -0.000 min
Lab File: VN068872.D
Acq: 12 Oct 2021 19:50

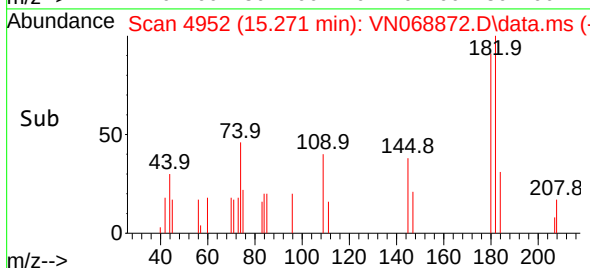
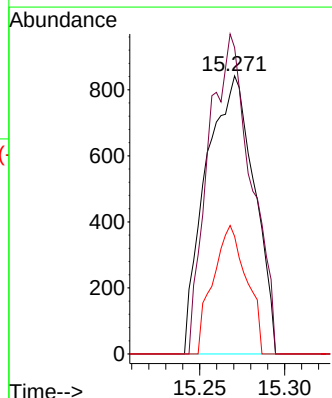
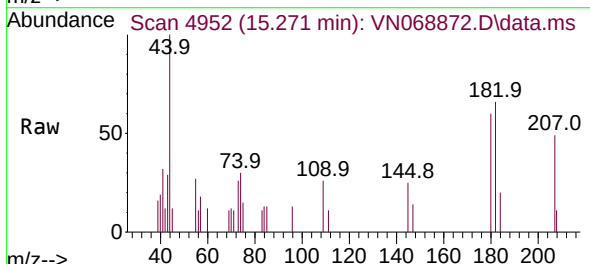
Instrument :
MSVOA_N
ClientSampleId :

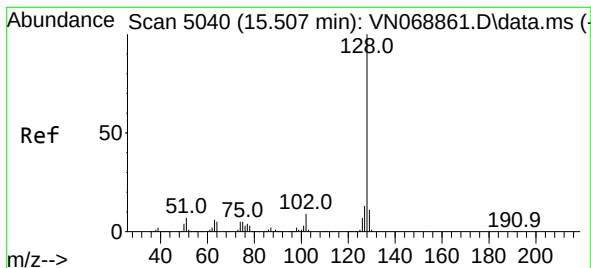
Tgt Ion: 91 Resp: 2868
Ion Ratio Lower Upper
91 100
92 47.0 26.0 78.0
134 19.8 12.5 37.5



#93
1,2,4-Trichlorobenzene
Concen: 2.993 ug/l
RT: 15.271 min Scan# 4952
Delta R.T. 0.006 min
Lab File: VN068872.D
Acq: 12 Oct 2021 19:50

Tgt Ion:180 Resp: 1666
Ion Ratio Lower Upper
180 100
182 101.7 47.9 143.7
145 32.1 16.4 49.2

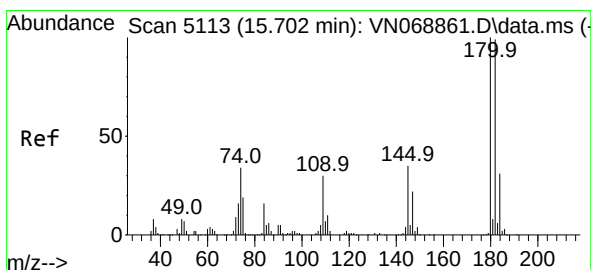
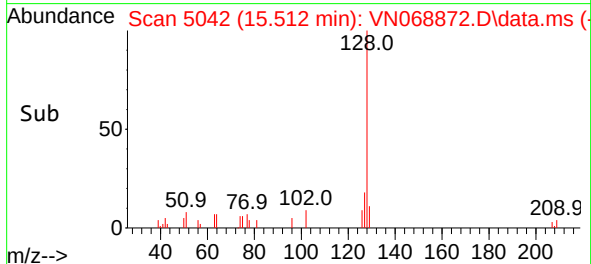
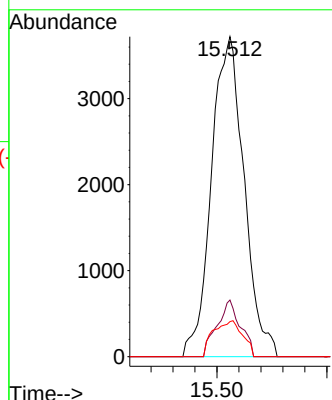
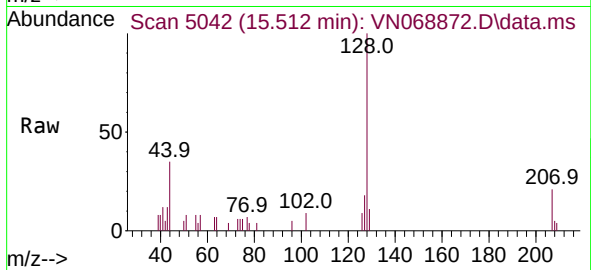




#95
Naphthalene
Concen: 4.446 ug/l
RT: 15.512 min Scan# 5042
Delta R.T. 0.005 min
Lab File: VN068872.D
Acq: 12 Oct 2021 19:50

Instrument :
MSVOA_N
ClientSampled :

Tgt Ion:128 Resp: 7662
Ion Ratio Lower Upper
128 100
127 12.7 10.5 15.7
129 10.0 8.9 13.3



#96
1,2,3-Trichlorobenzene
Concen: 2.937 ug/l
RT: 15.700 min Scan# 5112
Delta R.T. -0.002 min
Lab File: VN068872.D
Acq: 12 Oct 2021 19:50

Tgt Ion:180 Resp: 1713
Ion Ratio Lower Upper
180 100
182 100.2 48.1 144.3
145 23.6 17.4 52.2

