

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090321\
 Data File : VN068406.D
 Acq On : 3 Sep 2021 14:25
 Operator : JC/MD
 Sample : VN0903WBL01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 04 03:10:41 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 03 13:24:01 2021
 Response via : Initial Calibration

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

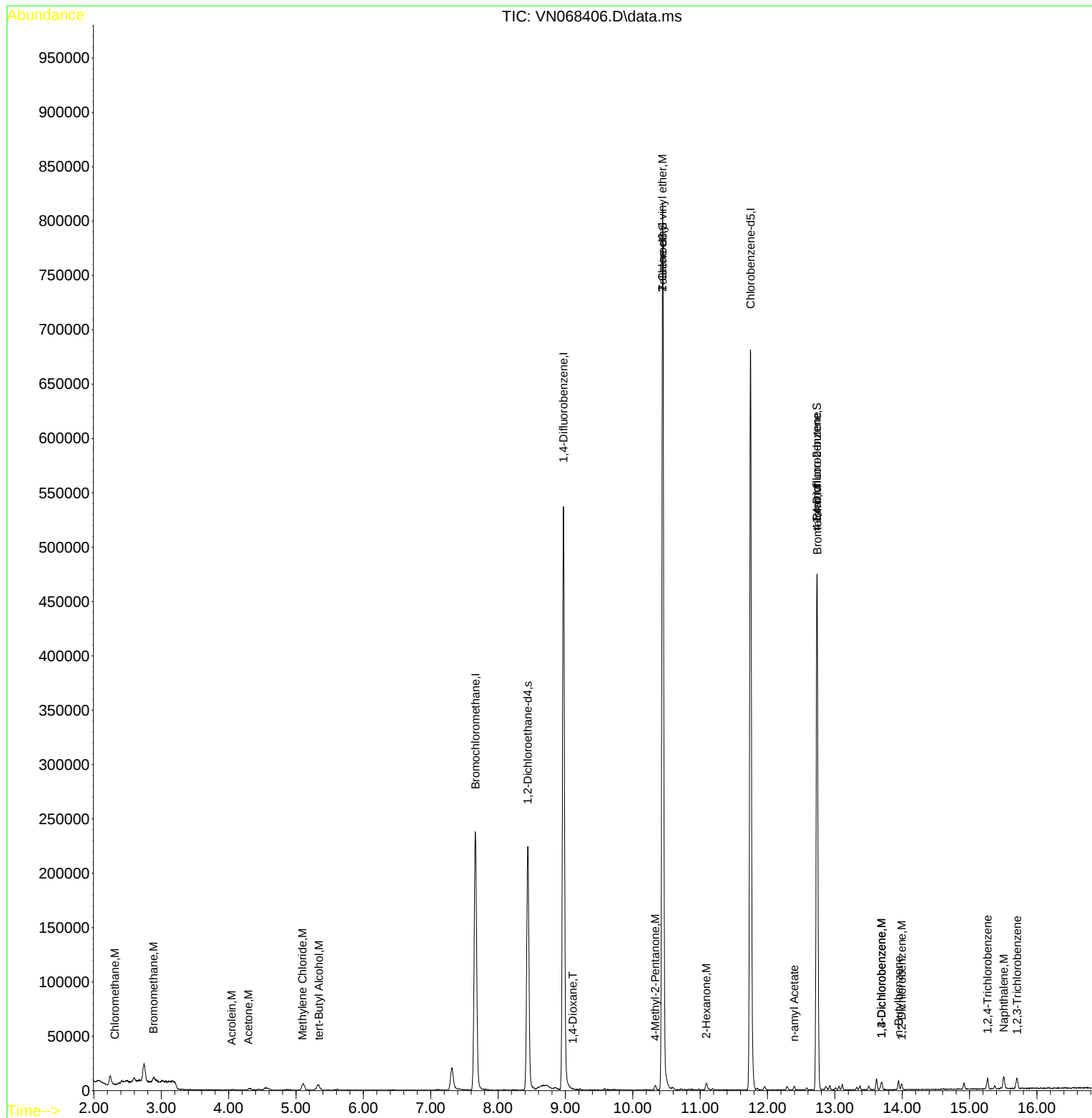
Internal Standards						
1) Bromochloromethane	7.664	128	100724	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	526950	30.000	ug/l	# 0.00
57) Chlorobenzene-d5	11.749	117	445321	30.000	ug/l	# 0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	192315	32.205	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 107.367%	
60) 4-Bromofluorobenzene	12.733	95	165812	26.293	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 87.633%	
63) Toluene-d8	10.443	98	623679	31.449	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 104.833%	
Target Compounds						Qvalue
3) Chloromethane	2.309	50	1064	0.231	ug/l	96
5) Bromomethane	2.883	94	1772	0.281	ug/l	91
13) Acrolein	4.044	56	331	0.730	ug/l	86
15) Acetone	4.293	58	254	0.421	ug/l	# 1
18) Methylene Chloride	5.095	84	1427	0.260	ug/l	# 83
23) tert-Butyl Alcohol	5.339	59	326	0.433	ug/l	# 100
45) 1,4-Dioxane	9.110	88	95	1.088	ug/l	# 19
47) n-amyl Acetate	12.395	43	1923	0.288	ug/l	91
55) 2-Chloroethyl vinyl ether	10.440	63	241	46.487	ug/l	# 46
56) Bromoform	12.739	173	2208	0.405	ug/l	# 1
58) 4-Methyl-2-Pentanone	10.333	43	2401	0.463	ug/l	# 83
59) 2-Hexanone	11.092	43	5186	1.442	ug/l	96
77) t-1,4-Dichloro-2-butene	12.733	75	83124	48.608	ug/l	# 6
83) 1,3-Dichlorobenzene	13.694	146	3729	0.284	ug/l	87
84) 1,4-Dichlorobenzene	13.694	146	3729	0.294	ug/l	90
85) n-Butylbenzene	13.946	91	5038	0.287	ug/l	97
87) 1,2-Dichlorobenzene	13.994	146	2702	0.216	ug/l	94
89) 1,2,4-Trichlorobenzene	15.268	180	3794	0.565	ug/l	97
91) Naphthalene	15.507	128	12100	0.853	ug/l	98
92) 1,2,3-Trichlorobenzene	15.705	180	4477	0.701	ug/l	92

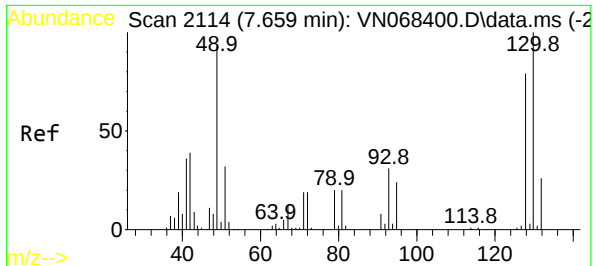
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090321\
Data File : VN068406.D
Acq On : 3 Sep 2021 14:25
Operator : JC/MD
Sample : VN0903WBL01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Sep 04 03:10:41 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090321W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 03 13:24:01 2021
Response via : Initial Calibration

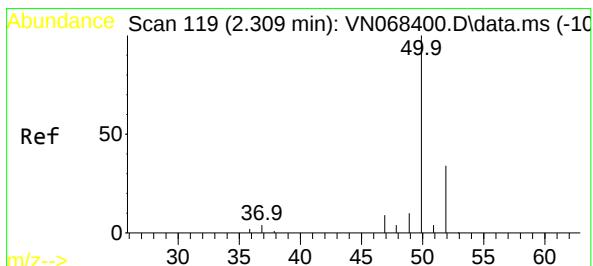
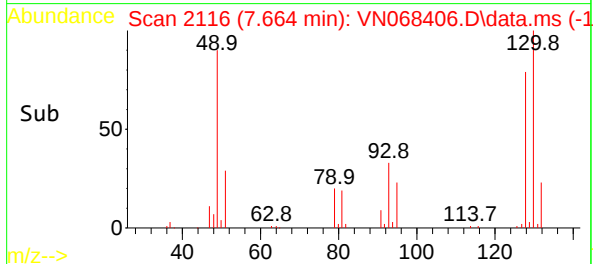
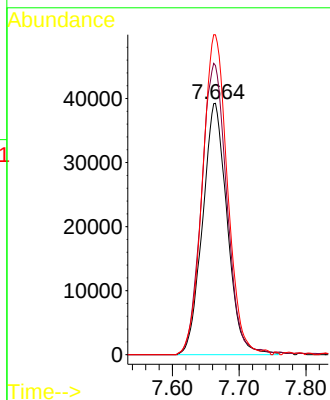
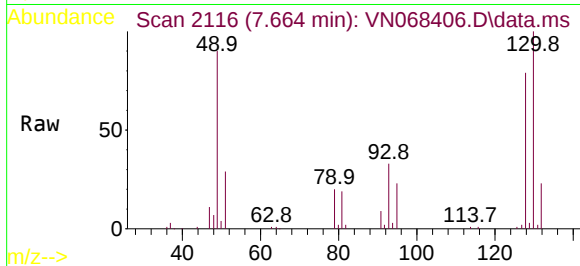




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.664 min Scan# 2116
Delta R.T. 0.005 min
Lab File: VN068406.D
Acq: 3 Sep 2021 14:25

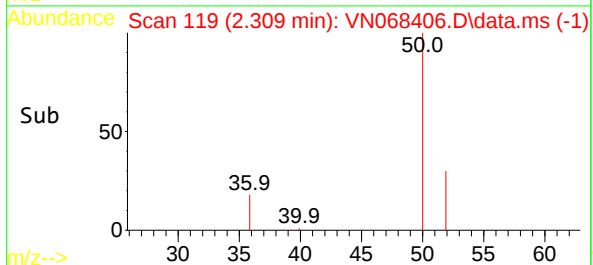
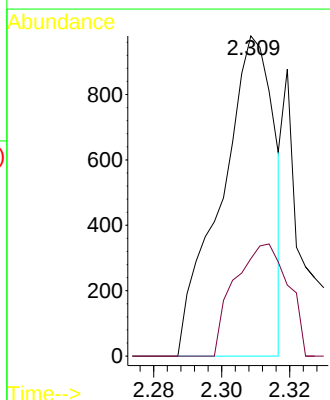
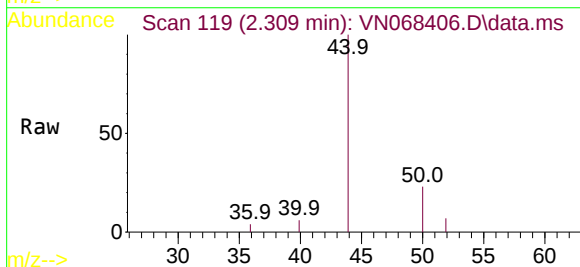
Instrument :
MSVOA_N
ClientSampled :

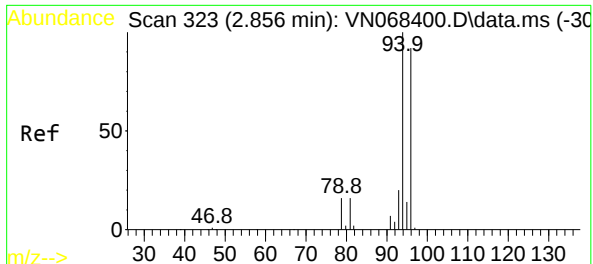
Tgt Ion:128 Resp: 100724
Ion Ratio Lower Upper
128 100
49 118.4 0.0 517.5
130 128.8 0.0 325.8



#3
Chloromethane
Concen: 0.231 ug/l
RT: 2.309 min Scan# 119
Delta R.T. 0.000 min
Lab File: VN068406.D
Acq: 3 Sep 2021 14:25

Tgt Ion: 50 Resp: 1064
Ion Ratio Lower Upper
50 100
52 30.4 26.0 39.0

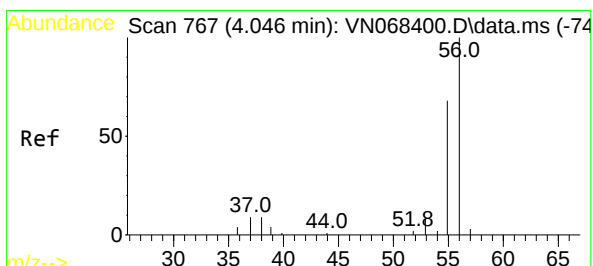
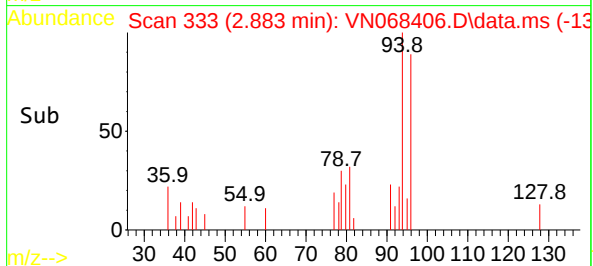
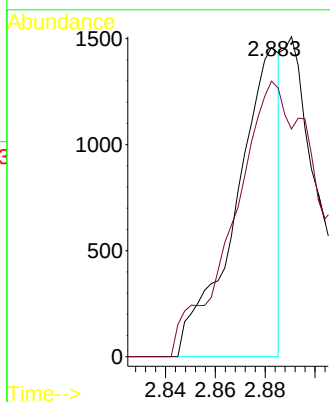
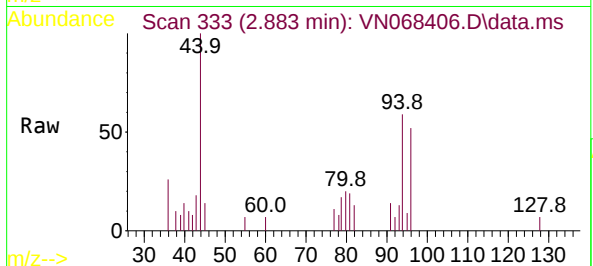




#5
Bromomethane
Concen: 0.281 ug/l
RT: 2.883 min Scan# 333
Delta R.T. 0.027 min
Lab File: VN068406.D
Acq: 3 Sep 2021 14:25

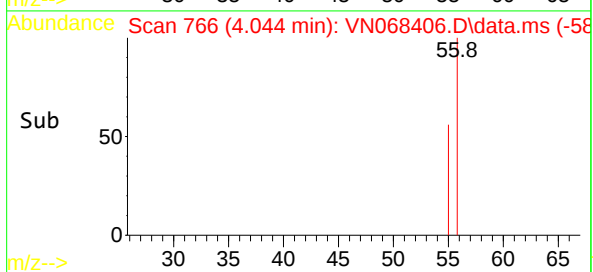
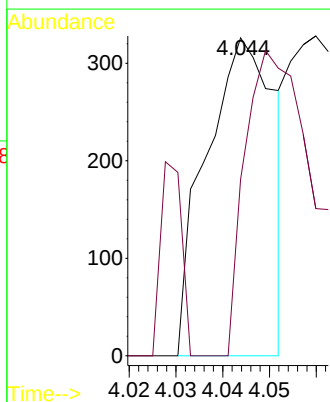
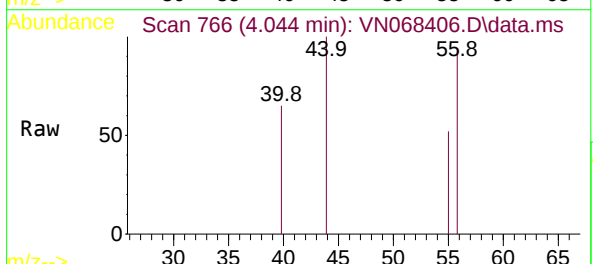
Instrument :
MSVOA_N
ClientSampled :

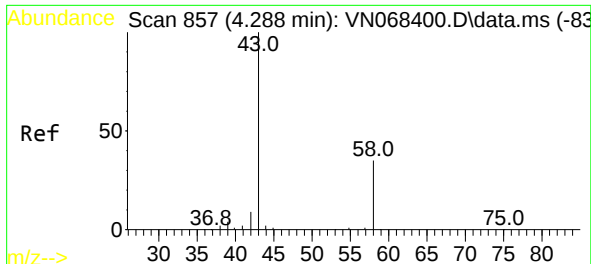
Tgt Ion: 94 Resp: 1772
Ion Ratio Lower Upper
94 100
96 78.7 69.4 104.2



#13
Acrolein
Concen: 0.730 ug/l
RT: 4.044 min Scan# 766
Delta R.T. -0.003 min
Lab File: VN068406.D
Acq: 3 Sep 2021 14:25

Tgt Ion: 56 Resp: 331
Ion Ratio Lower Upper
56 100
55 83.7 57.5 86.3

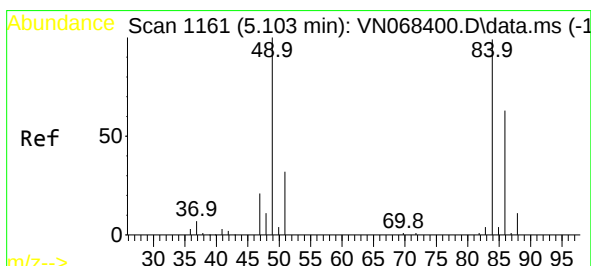
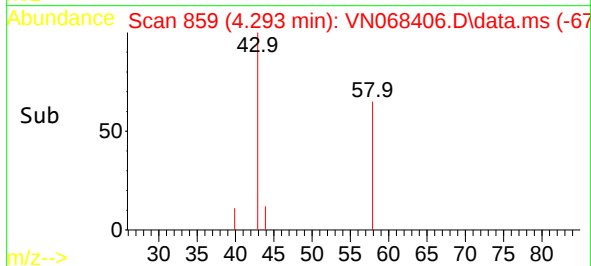
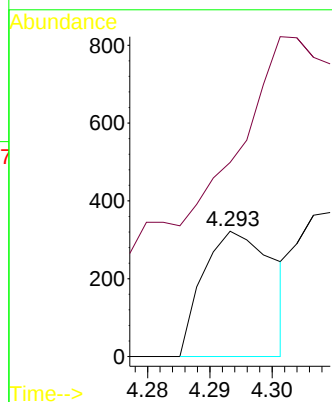
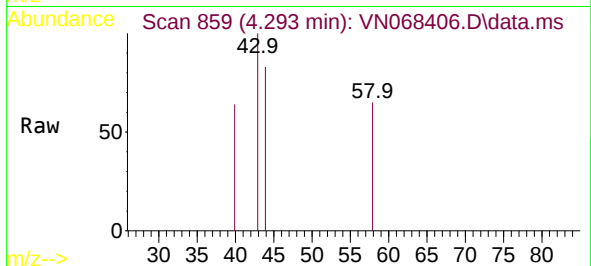




#15
Acetone
Concen: 0.421 ug/l
RT: 4.293 min Scan# 859
Delta R.T. 0.005 min
Lab File: VN068406.D
Acq: 3 Sep 2021 14:25

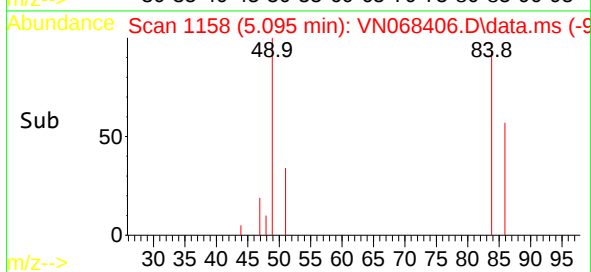
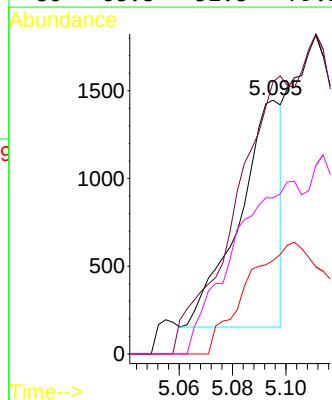
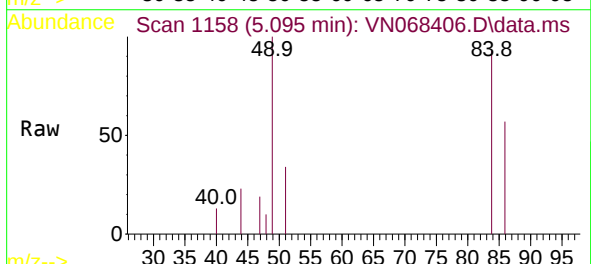
Instrument :
MSVOA_N
ClientSampled :

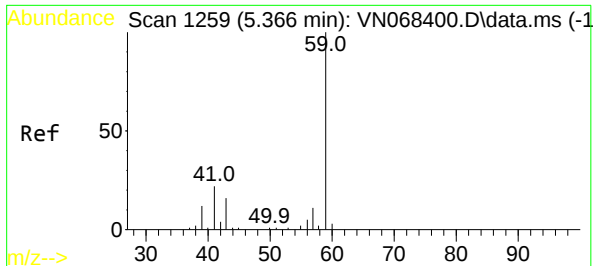
Tgt Ion: 58 Resp: 254
Ion Ratio Lower Upper
58 100
43 50.6 289.6 434.4#



#18
Methylene Chloride
Concen: 0.260 ug/l
RT: 5.095 min Scan# 1158
Delta R.T. -0.008 min
Lab File: VN068406.D
Acq: 3 Sep 2021 14:25

Tgt Ion: 84 Resp: 1427
Ion Ratio Lower Upper
84 100
49 104.9 110.9 166.3#
51 41.1 31.2 46.8
86 68.8 52.8 79.2

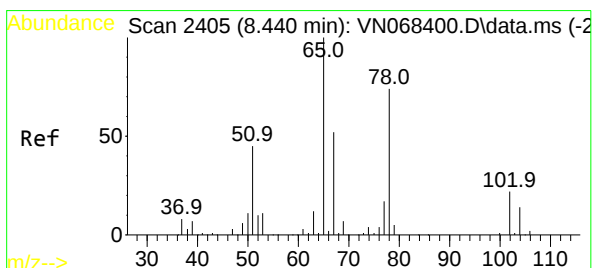
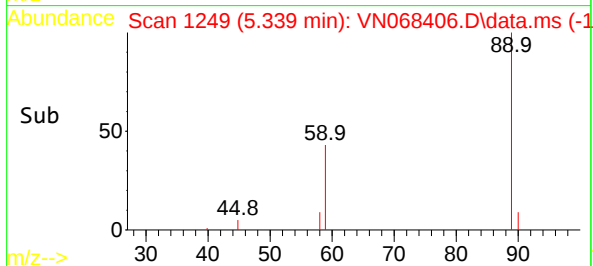
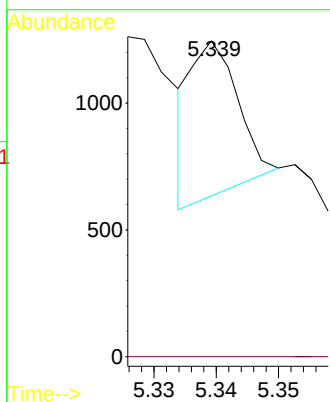
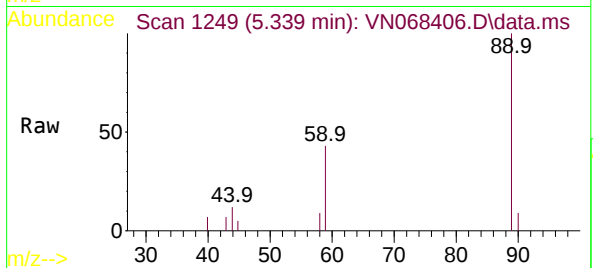




#23
tert-Butyl Alcohol
Concen: 0.433 ug/l
RT: 5.339 min Scan# 1249
Delta R.T. -0.027 min
Lab File: VN068406.D
Acq: 3 Sep 2021 14:25

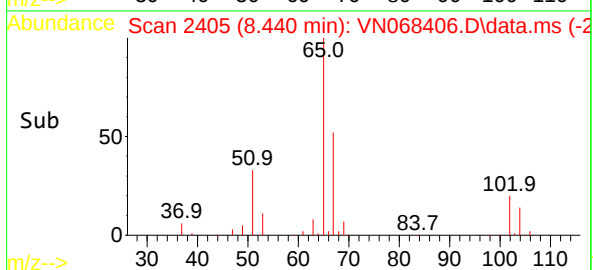
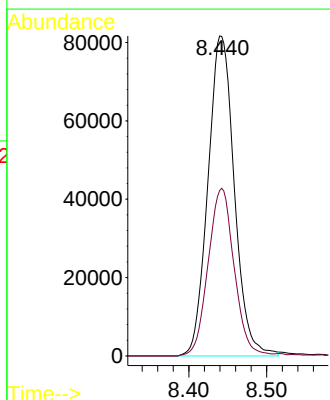
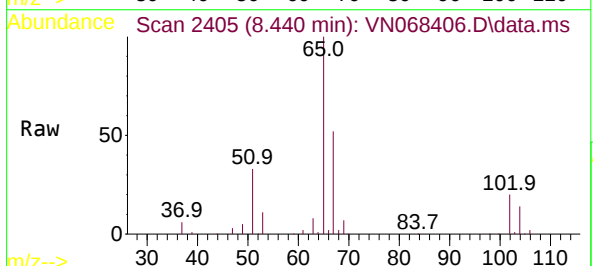
Instrument :
MSVOA_N
ClientSampled :

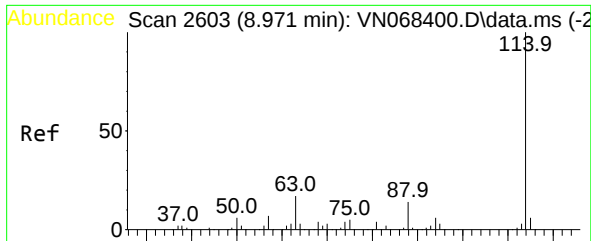
Tgt Ion: 59 Resp: 326
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1#



#27
1,2-Dichloroethane-d4
Concen: 32.205 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. 0.000 min
Lab File: VN068406.D
Acq: 3 Sep 2021 14:25

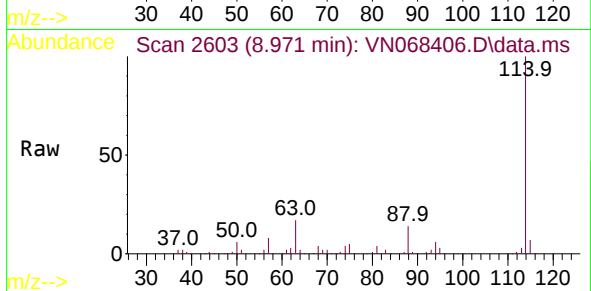
Tgt Ion: 65 Resp: 192315
Ion Ratio Lower Upper
65 100
67 51.5 39.8 59.8



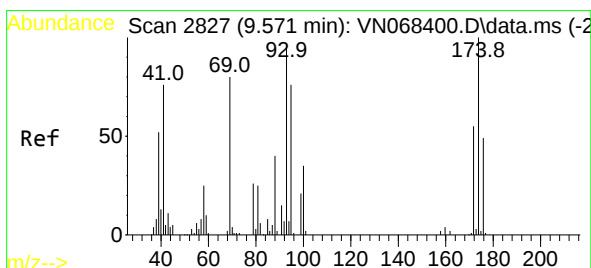
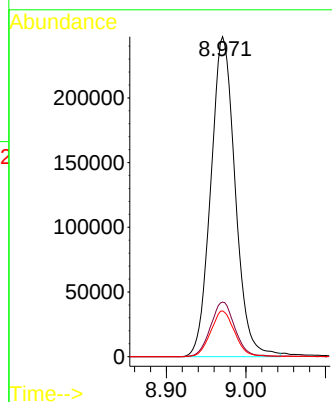
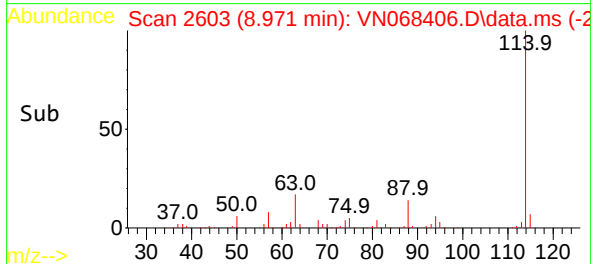


#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 8.971 min Scan# 2603
Delta R.T. 0.000 min
Lab File: VN068406.D
Acq: 3 Sep 2021 14:25

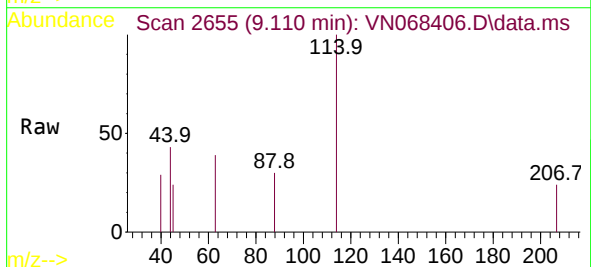
Instrument :
MSVOA_N
ClientSampled :



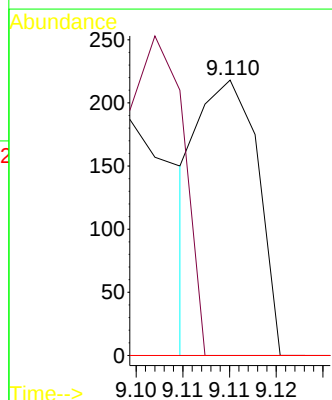
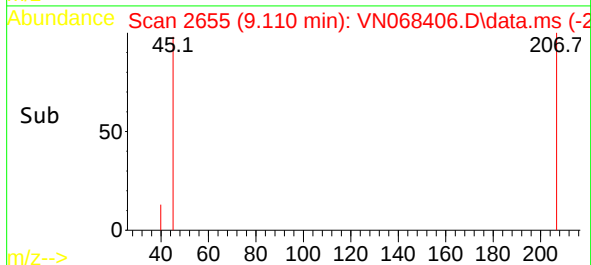
Tgt Ion:114 Resp: 526950
Ion Ratio Lower Upper
114 100
63 17.1 20.3 30.5#
88 14.0 14.6 22.0#

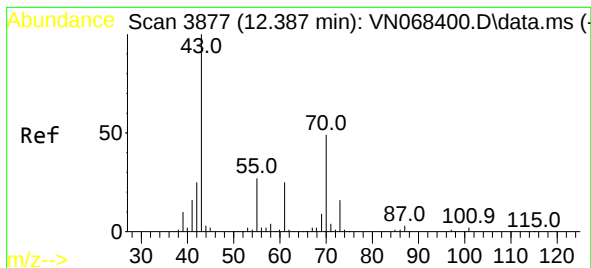


#45
1,4-Dioxane
Concen: 1.088 ug/l
RT: 9.110 min Scan# 2655
Delta R.T. -0.461 min
Lab File: VN068406.D
Acq: 3 Sep 2021 14:25



Tgt Ion: 88 Resp: 95
Ion Ratio Lower Upper
88 100
43 52.6 18.0 27.0#
58 0.0 57.7 86.5#

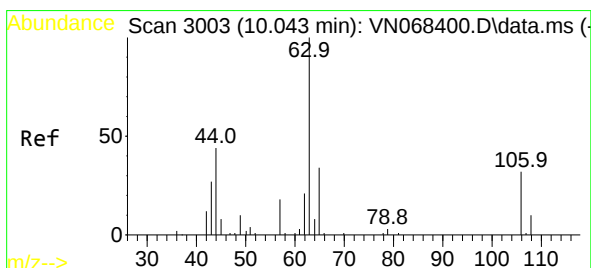
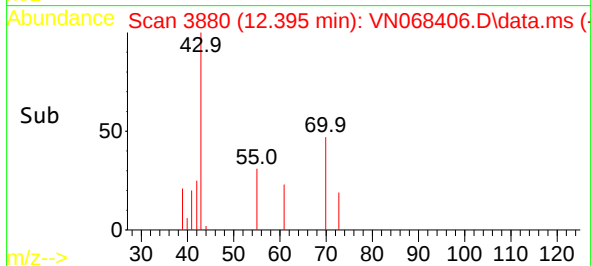
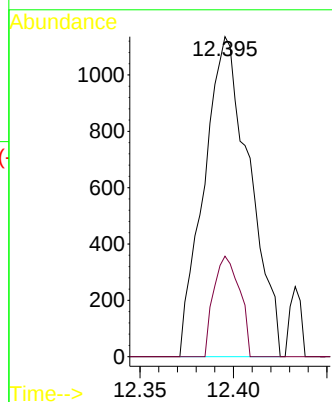
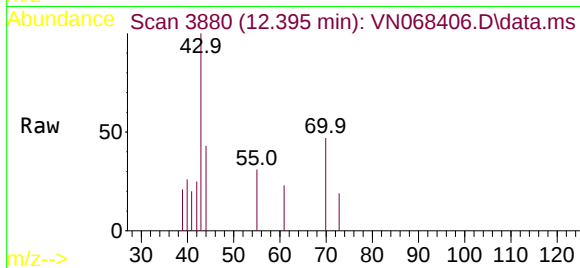




#47
n-amy1 Acetate
Concen: 0.288 ug/l
RT: 12.395 min Scan# 3880
Delta R.T. 0.008 min
Lab File: VN068406.D
Acq: 3 Sep 2021 14:25

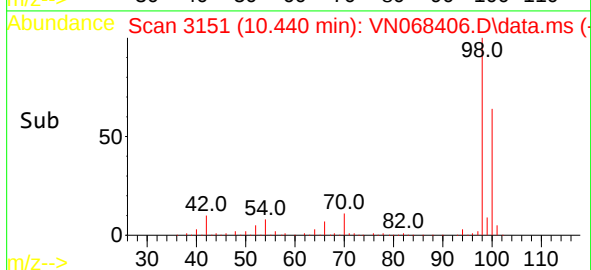
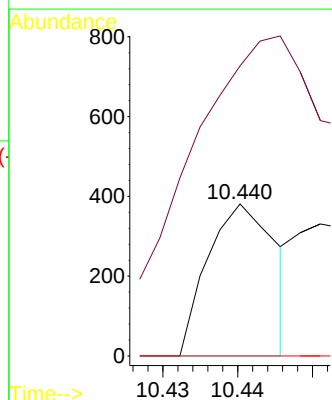
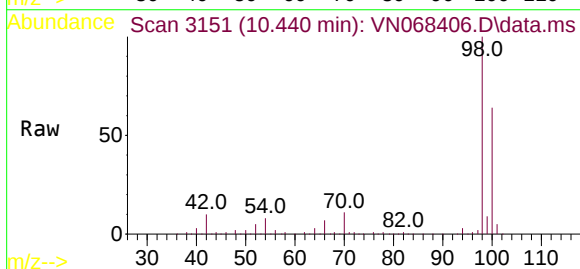
Instrument :
MSVOA_N
ClientSampled :

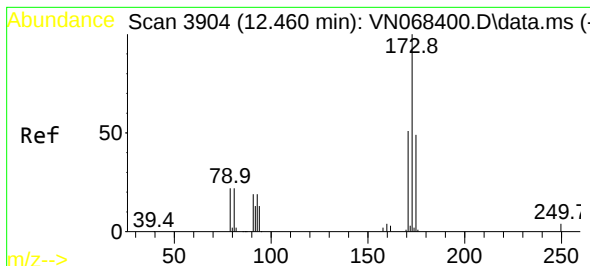
Tgt Ion: 43 Resp: 1923
Ion Ratio Lower Upper
43 100
55 17.8 17.6 26.4



#55
2-Chloroethyl vinyl ether
Concen: 46.487 ug/l
RT: 10.440 min Scan# 3151
Delta R.T. 0.397 min
Lab File: VN068406.D
Acq: 3 Sep 2021 14:25

Tgt Ion: 63 Resp: 241
Ion Ratio Lower Upper
63 100
65 0.0 25.6 38.4#
106 0.0 20.0 30.0#

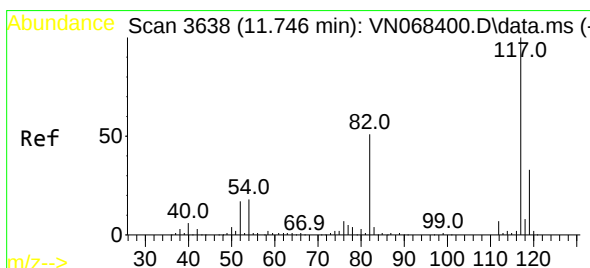
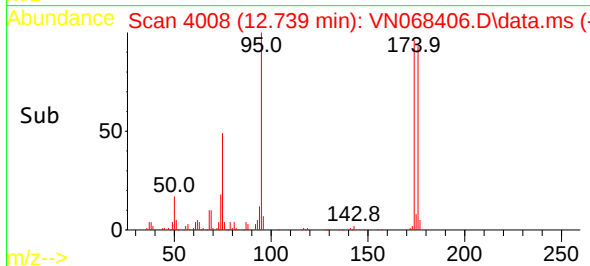
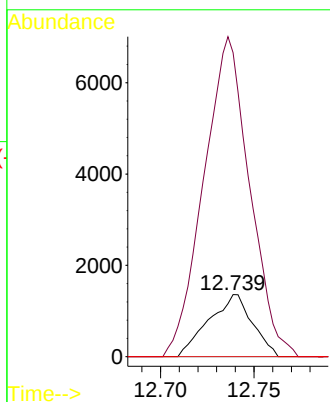
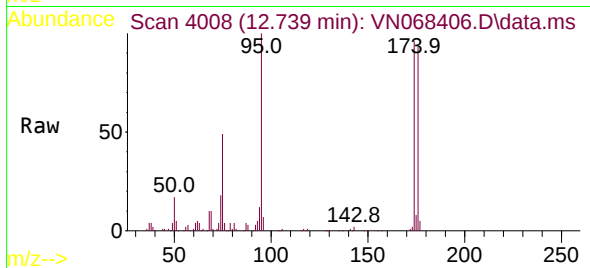




#56
Bromoform
Concen: 0.405 ug/l
RT: 12.739 min Scan# 4008
Delta R.T. 0.279 min
Lab File: VN068406.D
Acq: 3 Sep 2021 14:25

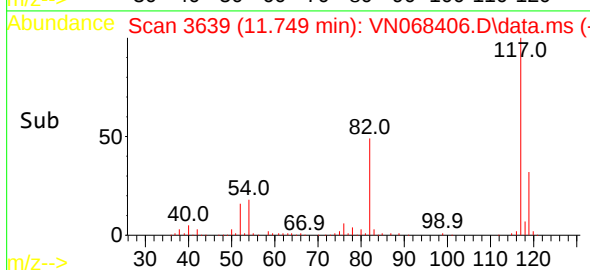
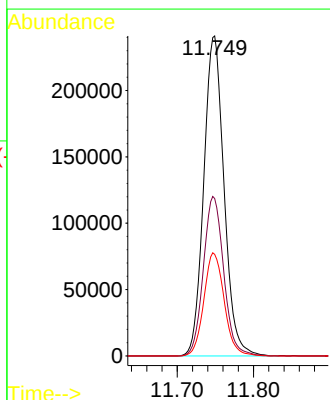
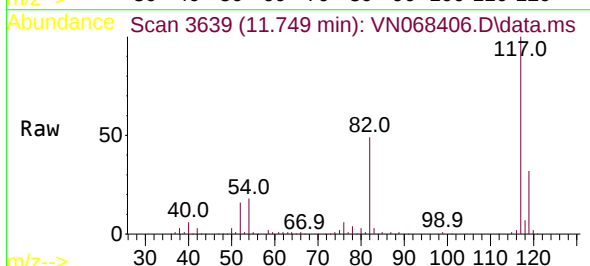
Instrument :
MSVOA_N
ClientSampled :

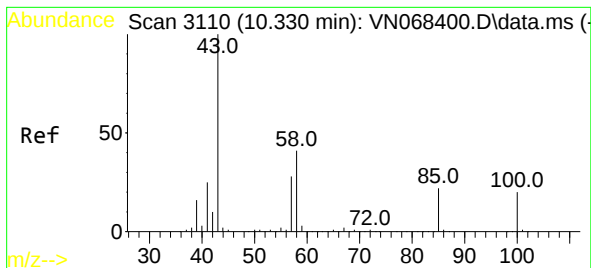
Tgt Ion:173 Resp: 2208
Ion Ratio Lower Upper
173 100
175 542.9 39.4 59.2#
254 0.0 0.0 0.0



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.749 min Scan# 3639
Delta R.T. 0.003 min
Lab File: VN068406.D
Acq: 3 Sep 2021 14:25

Tgt Ion:117 Resp: 445321
Ion Ratio Lower Upper
117 100
82 50.1 52.5 78.7#
119 32.3 25.8 38.8

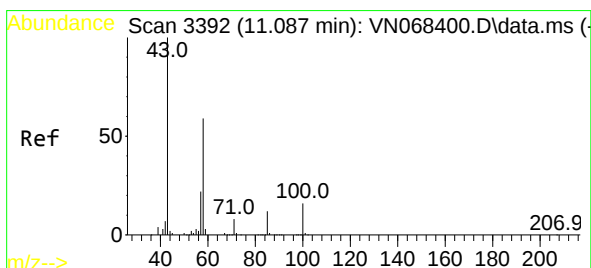
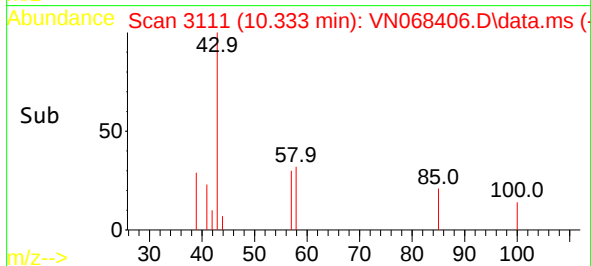
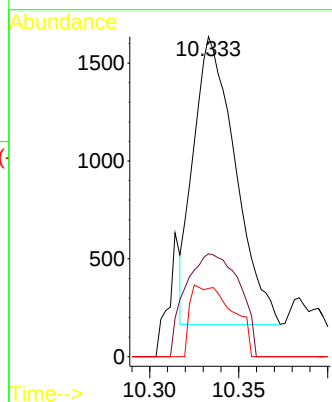
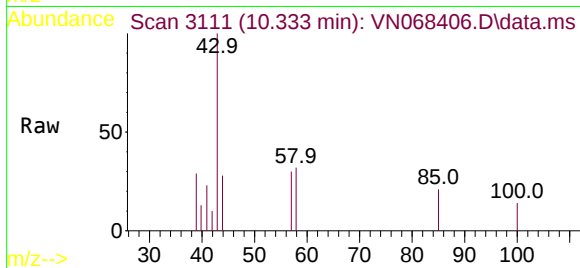




#58
4-Methyl-2-Pentanone
Concen: 0.463 ug/l
RT: 10.333 min Scan# 3111
Delta R.T. 0.003 min
Lab File: VN068406.D
Acq: 3 Sep 2021 14:25

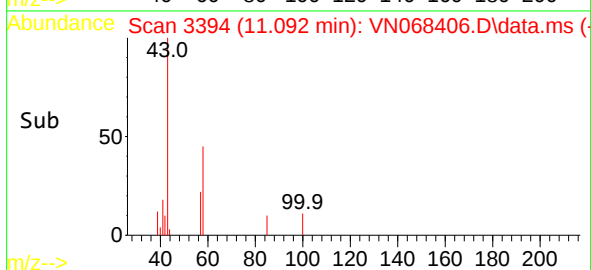
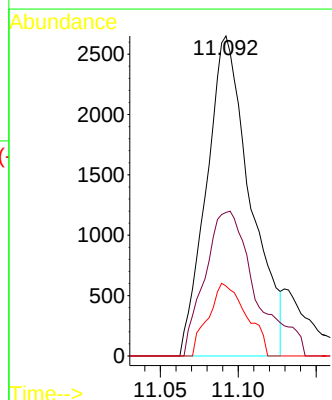
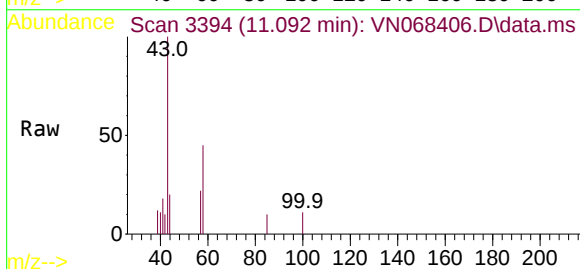
Instrument :
MSVOA_N
ClientSampled :

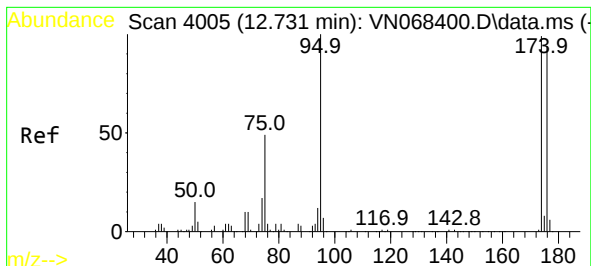
Tgt Ion: 43 Resp: 2401
Ion Ratio Lower Upper
43 100
58 45.9 29.0 43.4#
85 8.9 13.2 19.8#



#59
2-Hexanone
Concen: 1.442 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.005 min
Lab File: VN068406.D
Acq: 3 Sep 2021 14:25

Tgt Ion: 43 Resp: 5186
Ion Ratio Lower Upper
43 100
58 52.4 39.4 59.0
57 17.5 14.4 21.6

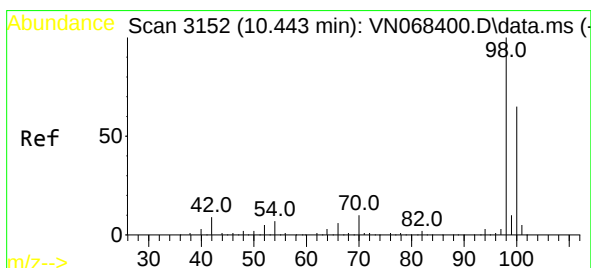
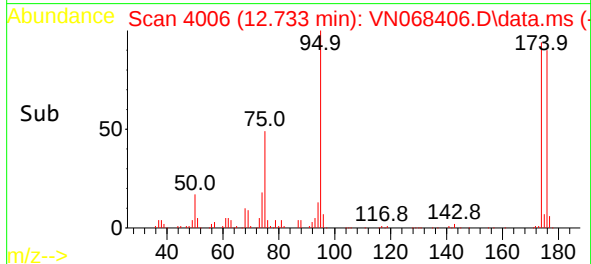
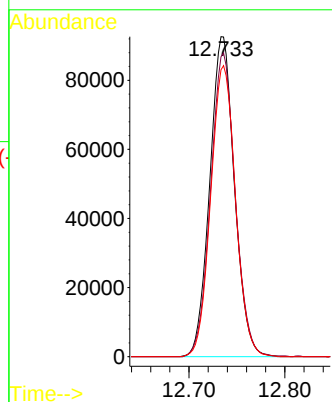
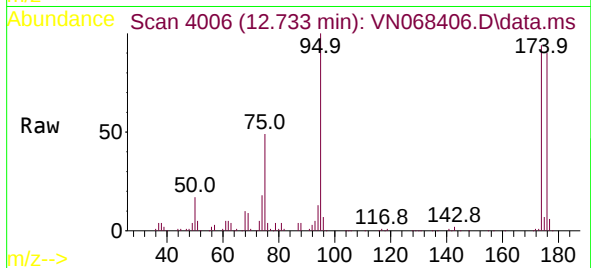




#60
4-Bromofluorobenzene
Concen: 26.293 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.003 min
Lab File: VN068406.D
Acq: 3 Sep 2021 14:25

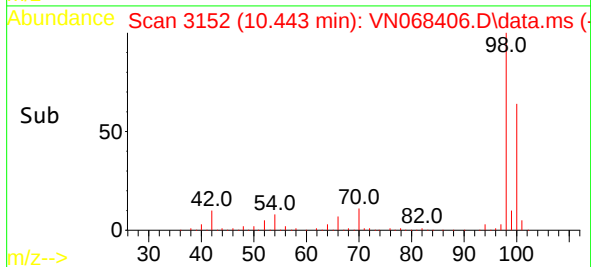
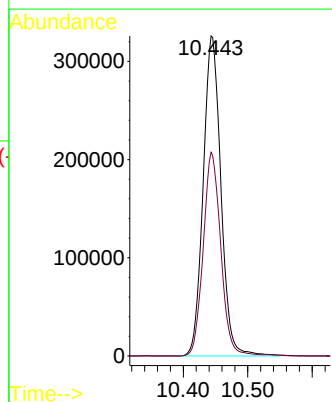
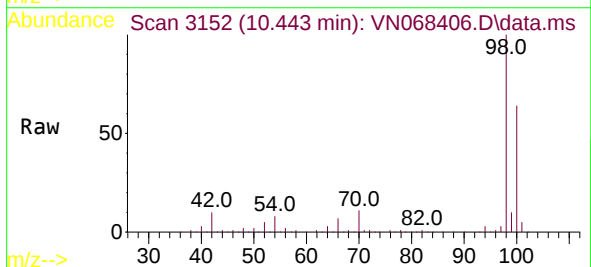
Instrument :
MSVOA_N
ClientSampled :

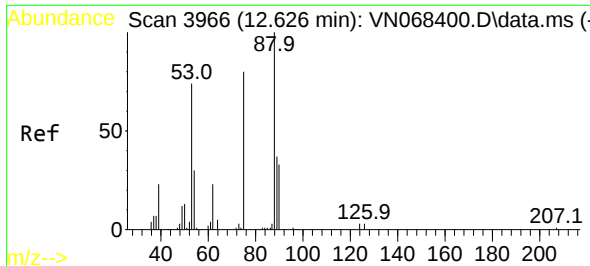
Tgt Ion: 95 Resp: 165812
Ion Ratio Lower Upper
95 100
174 94.6 47.7 71.5#
176 91.1 45.7 68.5#



#63
Toluene-d8
Concen: 31.449 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN068406.D
Acq: 3 Sep 2021 14:25

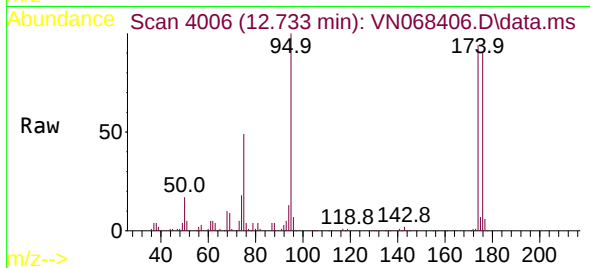
Tgt Ion: 98 Resp: 623679
Ion Ratio Lower Upper
98 100
100 62.8 51.2 76.8



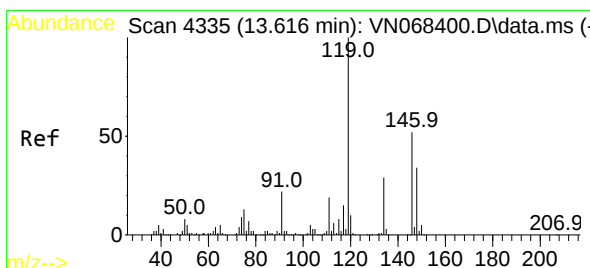
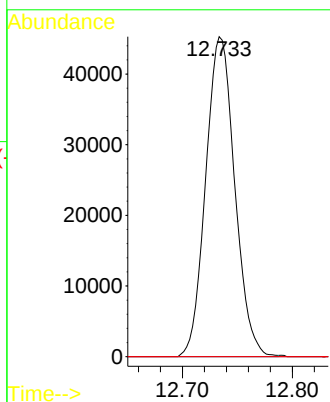
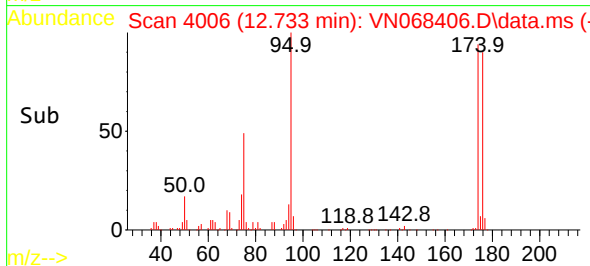


#77
t-1,4-Dichloro-2-butene
Concen: 48.608 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.107 min
Lab File: VN068406.D
Acq: 3 Sep 2021 14:25

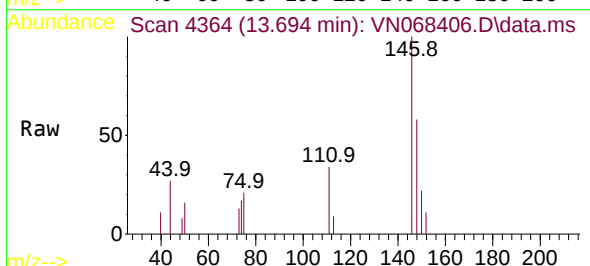
Instrument :
MSVOA_N
ClientSampled :



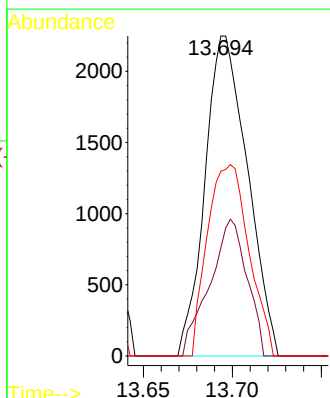
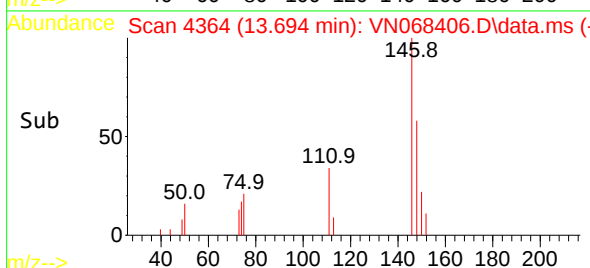
Tgt Ion: 75 Resp: 83124
Ion Ratio Lower Upper
75 100
53 0.0 55.2 165.6#
89 0.0 24.5 73.5#

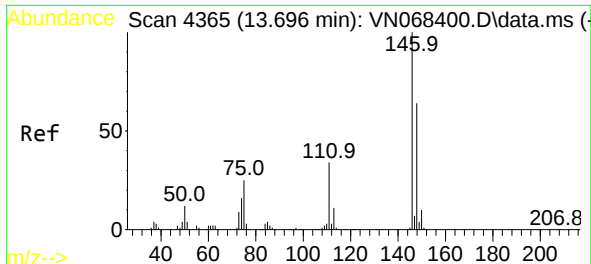


#83
1,3-Dichlorobenzene
Concen: 0.284 ug/l
RT: 13.694 min Scan# 4364
Delta R.T. 0.078 min
Lab File: VN068406.D
Acq: 3 Sep 2021 14:25



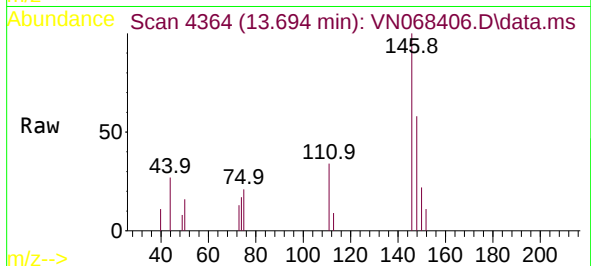
Tgt Ion: 146 Resp: 3729
Ion Ratio Lower Upper
146 100
111 37.6 25.0 75.0
148 58.4 32.6 97.7



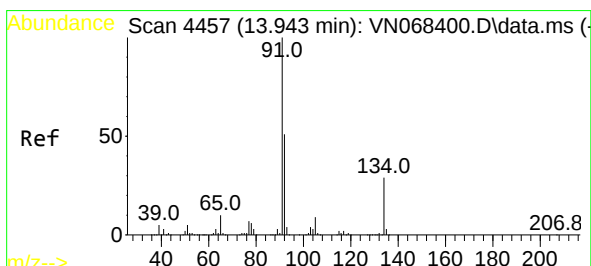
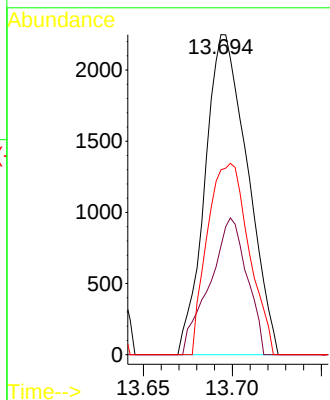
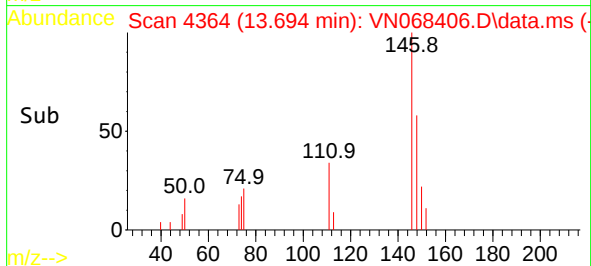


#84
1,4-Dichlorobenzene
Concen: 0.294 ug/l
RT: 13.694 min Scan# 4364
Delta R.T. -0.003 min
Lab File: VN068406.D
Acq: 3 Sep 2021 14:25

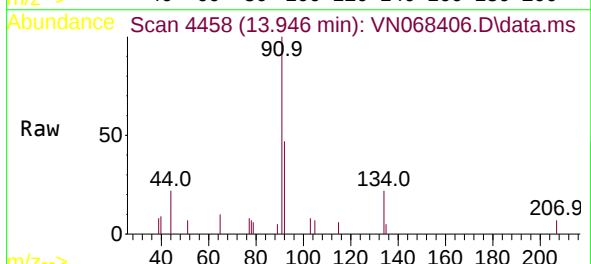
Instrument :
MSVOA_N
ClientSampled :



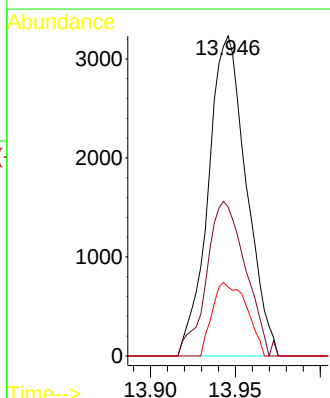
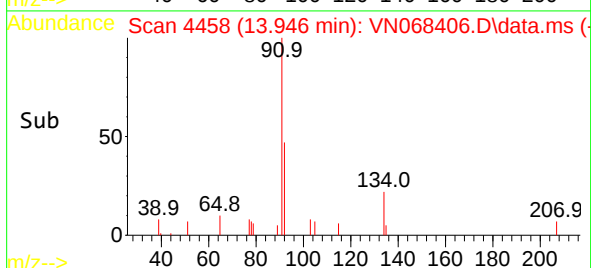
Tgt Ion:146 Resp: 3729
Ion Ratio Lower Upper
146 100
111 37.6 23.6 71.0
148 58.4 31.8 95.3

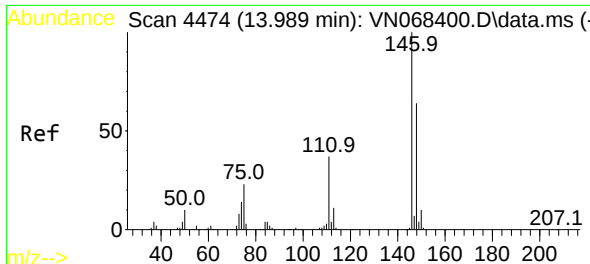


#85
n-Butylbenzene
Concen: 0.287 ug/l
RT: 13.946 min Scan# 4458
Delta R.T. 0.003 min
Lab File: VN068406.D
Acq: 3 Sep 2021 14:25



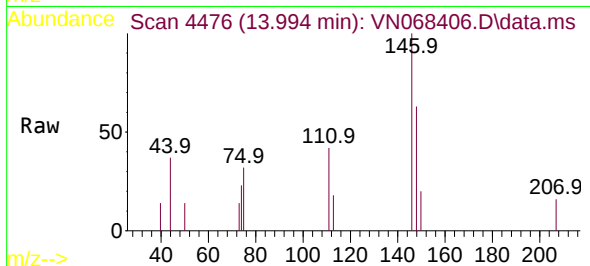
Tgt Ion: 91 Resp: 5038
Ion Ratio Lower Upper
91 100
92 49.2 0.0 103.0
134 20.7 0.0 43.6



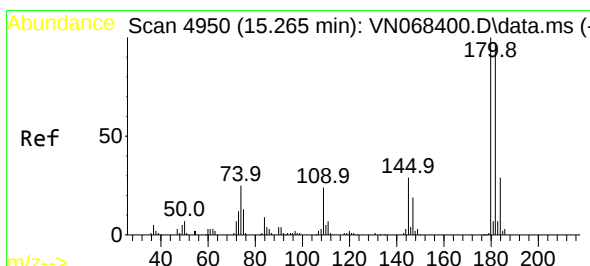
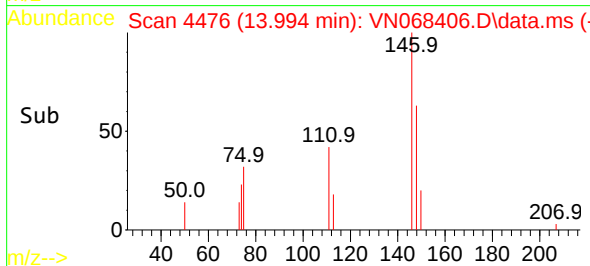
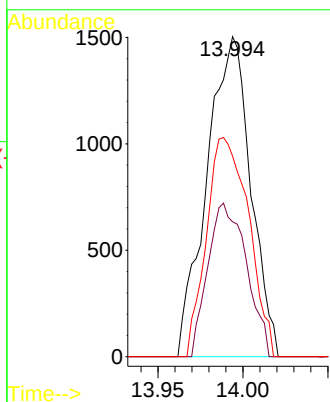


#87
1,2-Dichlorobenzene
Concen: 0.216 ug/l
RT: 13.994 min Scan# 4476
Delta R.T. 0.005 min
Lab File: VN068406.D
Acq: 3 Sep 2021 14:25

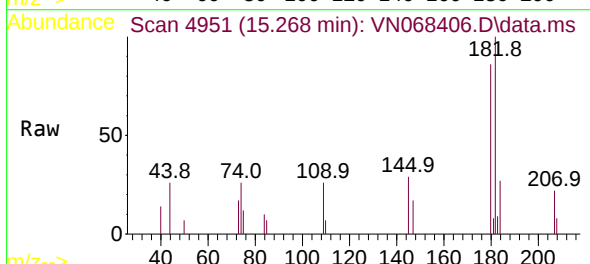
Instrument :
MSVOA_N
ClientSampled :



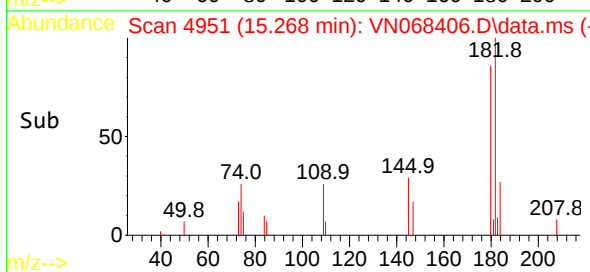
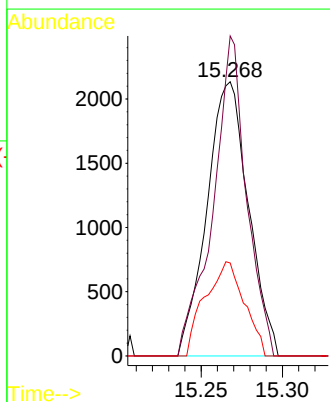
Tgt Ion:146 Resp: 2702
Ion Ratio Lower Upper
146 100
111 42.2 25.0 75.0
148 65.8 32.0 96.0

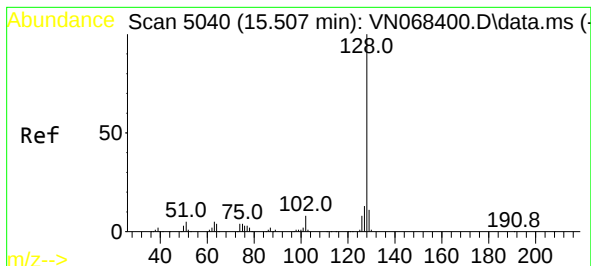


#89
1,2,4-Trichlorobenzene
Concen: 0.565 ug/l
RT: 15.268 min Scan# 4951
Delta R.T. 0.003 min
Lab File: VN068406.D
Acq: 3 Sep 2021 14:25



Tgt Ion:180 Resp: 3794
Ion Ratio Lower Upper
180 100
182 93.6 75.9 113.9
145 32.4 28.8 43.2

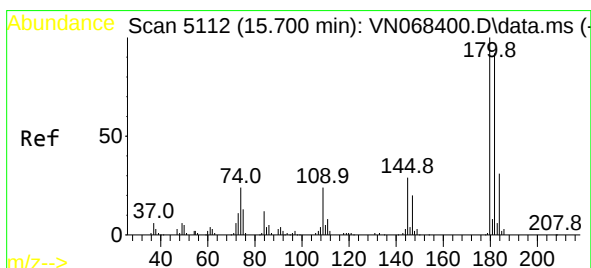
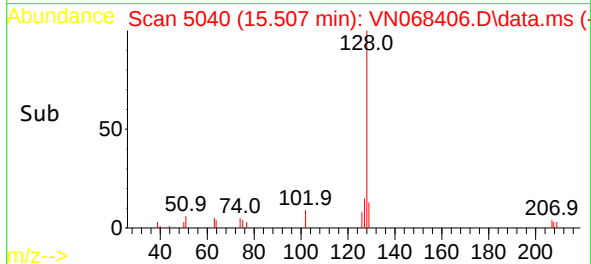
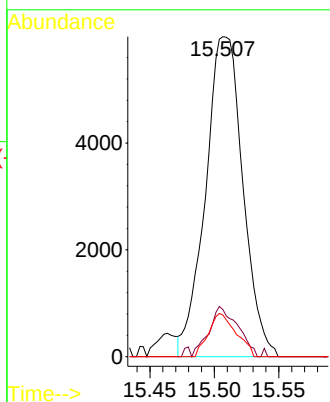
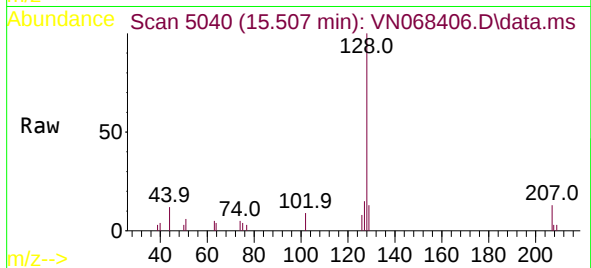




#91
Naphthalene
Concen: 0.853 ug/l
RT: 15.507 min Scan# 5040
Delta R.T. 0.000 min
Lab File: VN068406.D
Acq: 3 Sep 2021 14:25

Instrument :
MSVOA_N
ClientSampled :

Tgt Ion:128 Resp: 12100
Ion Ratio Lower Upper
128 100
127 12.1 10.1 15.1
129 10.0 8.9 13.3



#92
1,2,3-Trichlorobenzene
Concen: 0.701 ug/l
RT: 15.705 min Scan# 5114
Delta R.T. 0.005 min
Lab File: VN068406.D
Acq: 3 Sep 2021 14:25

Tgt Ion:180 Resp: 4477
Ion Ratio Lower Upper
180 100
182 98.6 0.0 184.6
145 31.8 0.0 76.0

