

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091721\
 Data File : VN068548.D
 Acq On : 18 Sep 2021 4:22
 Operator : JC/MD
 Sample : M3798-01
 Misc : 7.26g/5mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 NAPL-06-(15-18)

Quant Time: Sep 20 06:01:28 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N090721W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 17 11:02:11 2021
 Response via : Initial Calibration

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

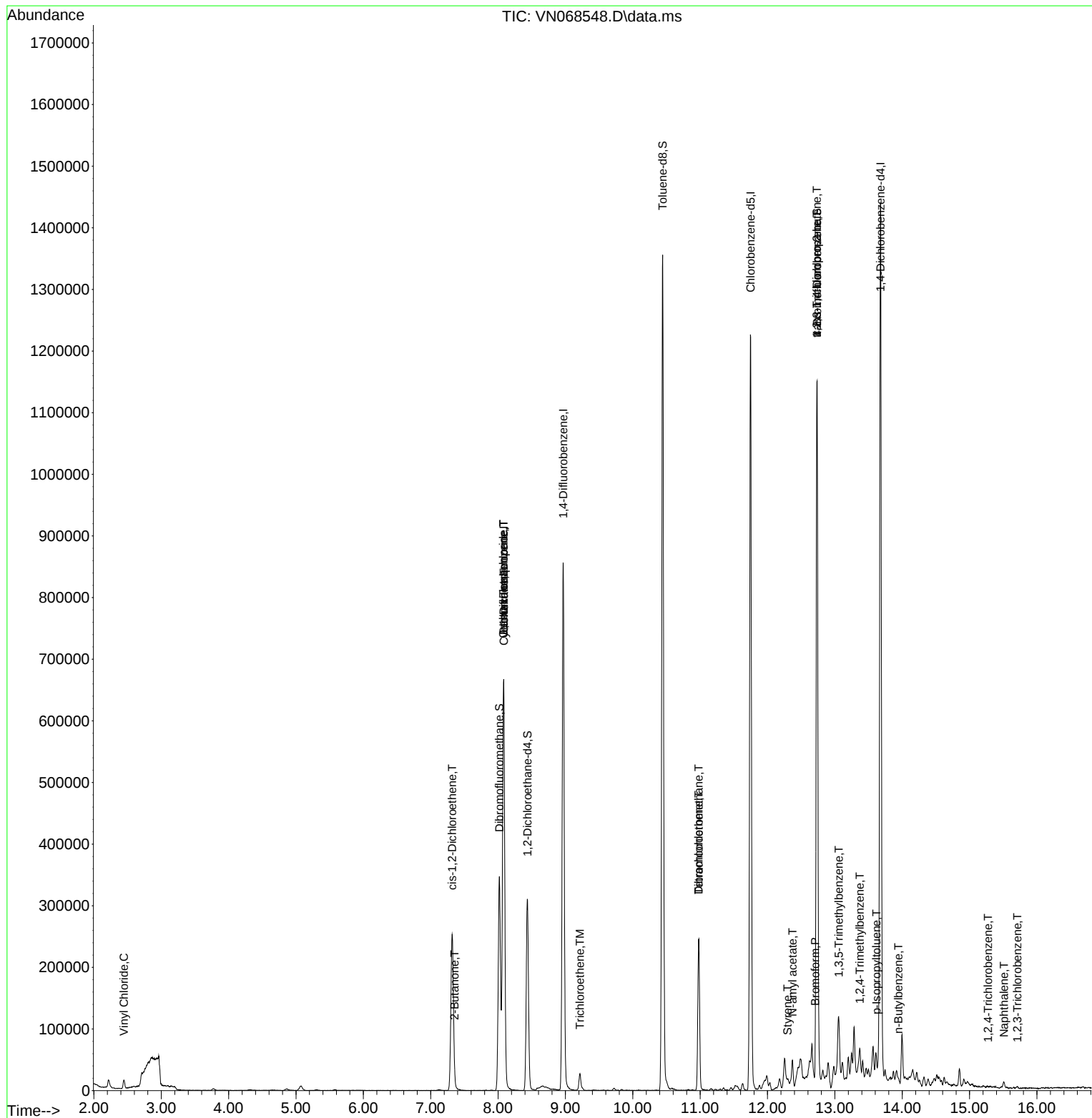
Internal Standards						
1) Pentafluorobenzene	8.083	168	610568	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	858420	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.749	117	817129	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.677	152	441719	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.437	65	261781	46.740	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	93.480%		
35) Dibromofluoromethane	8.019	113	247369	47.779	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	95.560%		
50) Toluene-d8	10.443	98	1018037	48.090	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	96.180%		
62) 4-Bromofluorobenzene	12.736	95	364836	51.947	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	103.900%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.293	50	558	Below Cal	#	42
4) Vinyl Chloride	2.445	62	13928	1.842	ug/l	95
5) Bromomethane	2.856	94	626	Below Cal	#	54
11) Tert butyl alcohol	5.318	59	497	Below Cal	#	84
16) Acetone	4.312	43	1297	Below Cal		97
18) Methyl Acetate	4.859	43	4518	Below Cal	#	69
20) Methylene Chloride	5.060	84	2355	Below Cal	#	84
25) 2-Butanone	7.353	43	4260	1.565	ug/l #	80
27) cis-1,2-Dichloroethene	7.319	96	172478	26.814	ug/l	90
31) Cyclohexane	8.086	56	8391	0.989	ug/l #	21
36) 1,1-Dichloropropene	8.083	75	32475	4.538	ug/l #	48
38) Carbon Tetrachloride	8.080	117	52259	6.095	ug/l #	16
44) Trichloroethene	9.215	130	10571	1.576	ug/l	94
60) Dibromochloromethane	10.979	129	56919	8.982	ug/l #	11
64) Tetrachloroethene	10.979	164	65156	8.997	ug/l	98
70) Styrene	12.299	104	144	1.761	ug/l #	15
71) Bromoform	12.707	173	30	2.531	ug/l #	29
74) N-amyl acetate	12.371	43	8296	1.184	ug/l #	74
76) 1,2,3-Trichloropropane	12.733	75	176641	28.610	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.061	105	11015	0.432	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.733	75	176641	88.624	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.369	105	29985	1.225	ug/l	99
86) p-Isopropyltoluene	13.618	119	5233	0.202	ug/l	98
89) n-Butylbenzene	13.943	91	3888	0.206	ug/l #	72
93) 1,2,4-Trichlorobenzene	15.273	180	278	2.991	ug/l #	1
95) Naphthalene	15.509	128	10609	4.061	ug/l #	92
96) 1,2,3-Trichlorobenzene	15.710	180	278	3.008	ug/l #	1

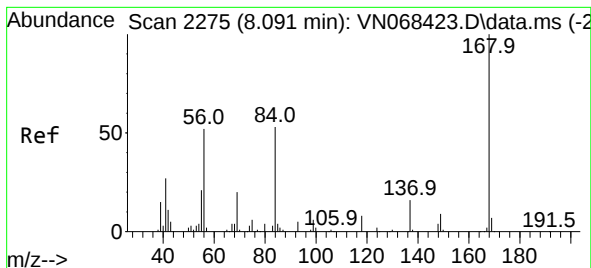
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.083 min Scan# 2272

Delta R.T. -0.008 min

Lab File: VN068548.D

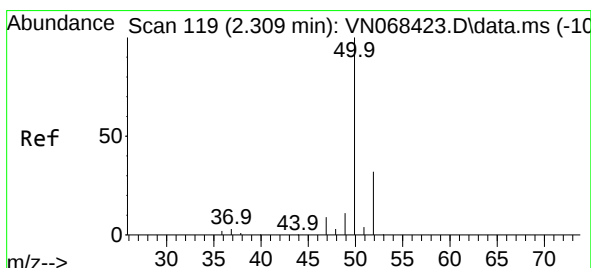
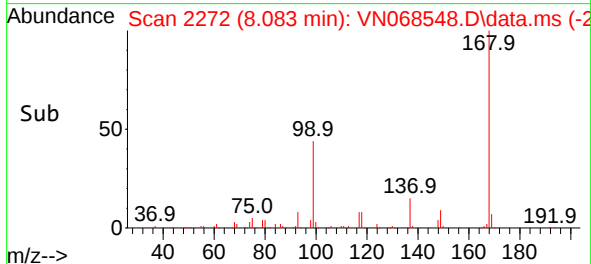
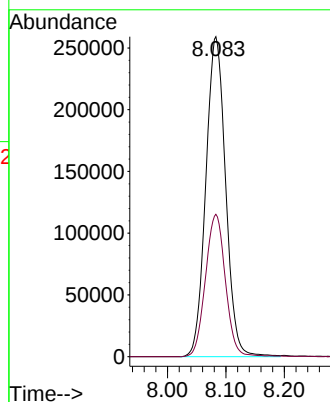
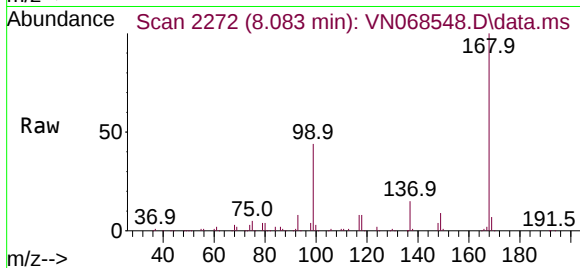
Acq: 18 Sep 2021 4:22

Tgt Ion:168 Resp: 610568

Ion Ratio Lower Upper

168 100

99 44.5 38.2 57.4



#3

Chloromethane

Concen: Below Cal

RT: 2.293 min Scan# 113

Delta R.T. -0.016 min

Lab File: VN068548.D

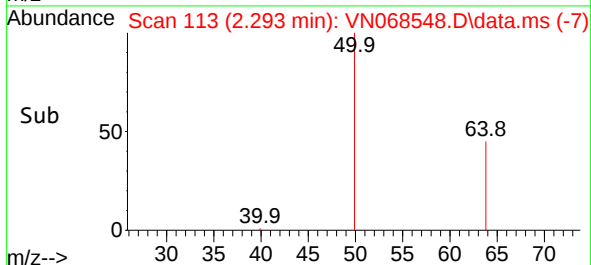
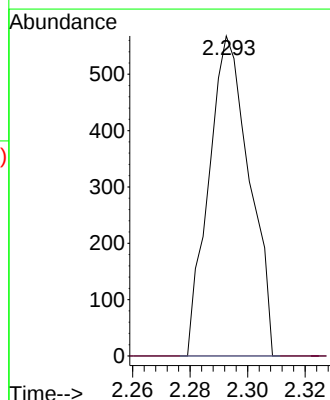
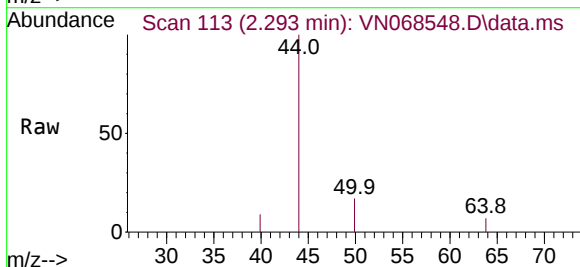
Acq: 18 Sep 2021 4:22

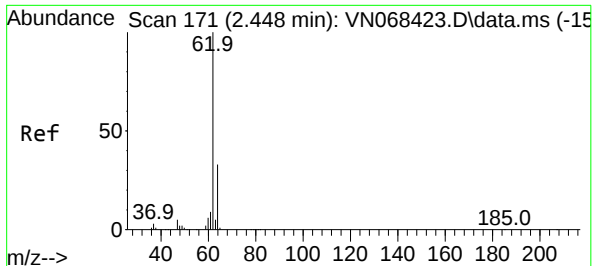
Tgt Ion: 50 Resp: 558

Ion Ratio Lower Upper

50 100

52 0.0 25.8 38.6#

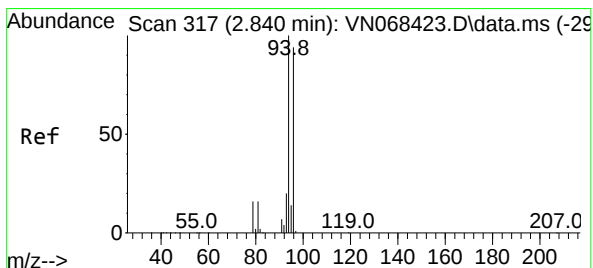
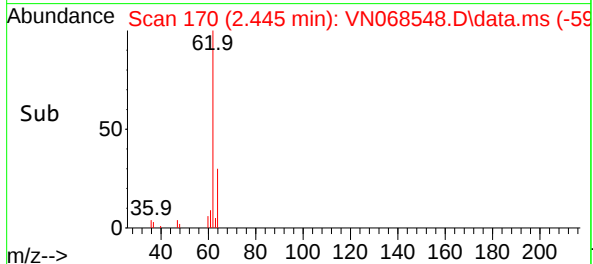
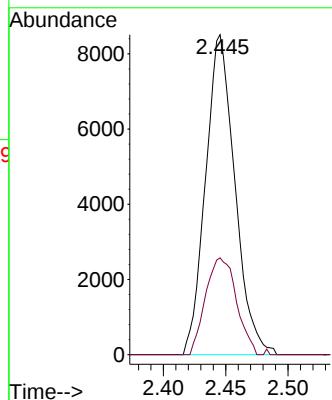
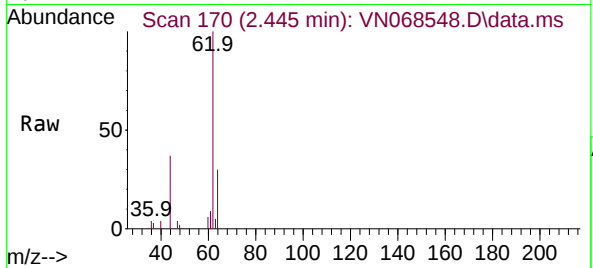




#4
 Vinyl Chloride
 Concen: 1.842 ug/l
 RT: 2.445 min Scan# 170
 Delta R.T. -0.003 min
 Lab File: VN068548.D
 Acq: 18 Sep 2021 4:22

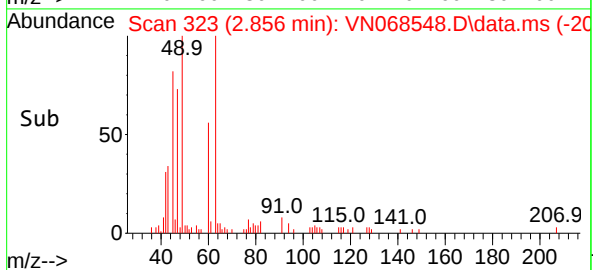
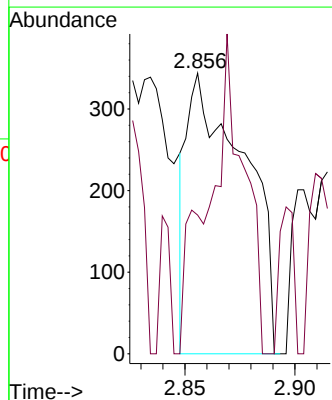
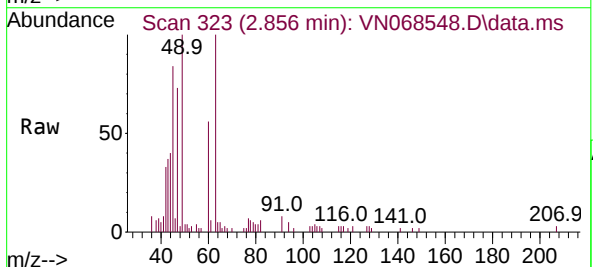
Instrument :
 MSVOA_N
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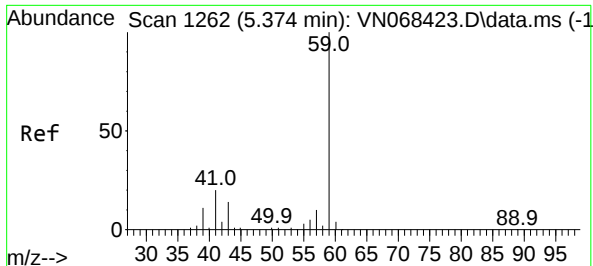
Tgt Ion: 62 Resp: 13928
 Ion Ratio Lower Upper
 62 100
 64 30.3 26.3 39.5



#5
 Bromomethane
 Concen: Below Cal
 RT: 2.856 min Scan# 323
 Delta R.T. 0.016 min
 Lab File: VN068548.D
 Acq: 18 Sep 2021 4:22

Tgt Ion: 94 Resp: 626
 Ion Ratio Lower Upper
 94 100
 96 49.4 75.4 113.0#



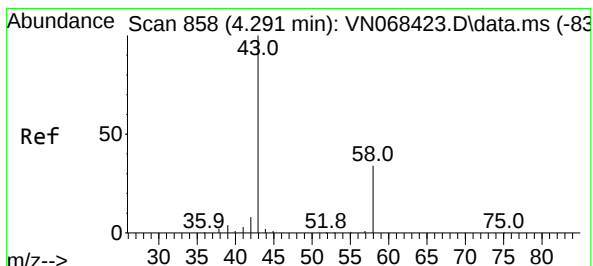
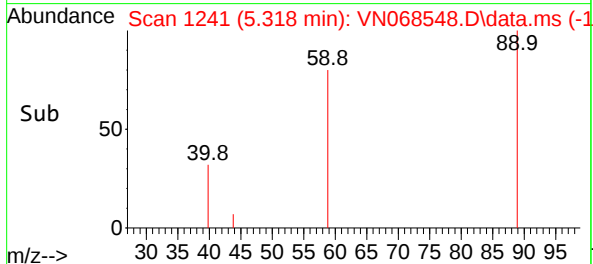
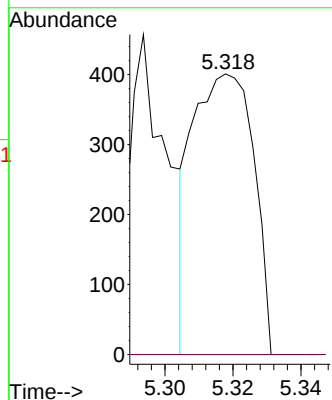
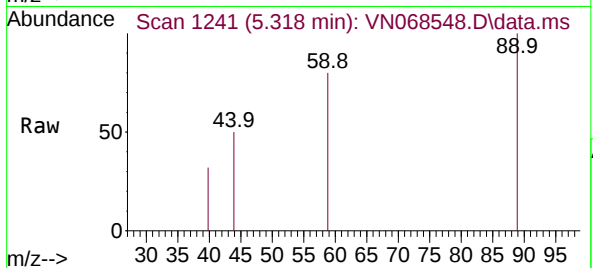


#11

Tert butyl alcohol
Concen: Below Cal
RT: 5.318 min Scan# 1241
Delta R.T. -0.056 min
Lab File: VN068548.D
Acq: 18 Sep 2021 4:22

Instrument :
MSVOA_N
ClientSampleId :
NAPL-06-(15-18)

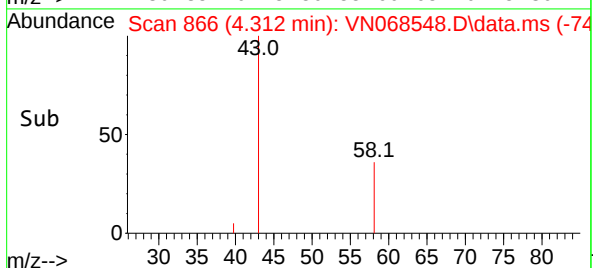
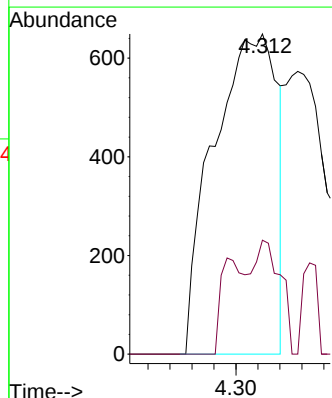
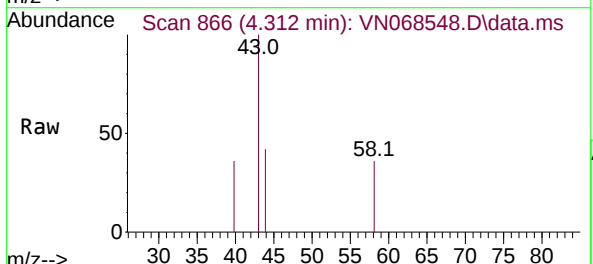
Tgt Ion: 59 Resp: 497
Ion Ratio Lower Upper
59 100
57 0.0 4.3 6.5#

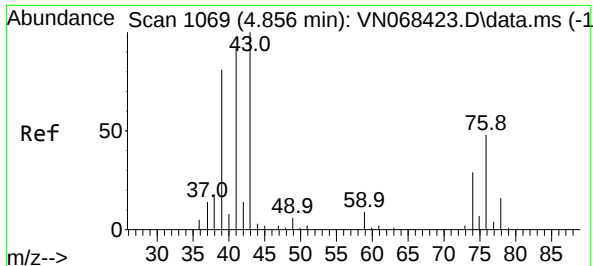


#16

Acetone
Concen: Below Cal
RT: 4.312 min Scan# 866
Delta R.T. 0.021 min
Lab File: VN068548.D
Acq: 18 Sep 2021 4:22

Tgt Ion: 43 Resp: 1297
Ion Ratio Lower Upper
43 100
58 35.6 27.0 40.6





#18

Methyl Acetate

Concen: Below Cal

RT: 4.859 min Scan# 1070

Delta R.T. 0.003 min

Lab File: VN068548.D

Acq: 18 Sep 2021 4:22

Tgt Ion: 43 Resp: 4518

Ion Ratio Lower Upper

43 100

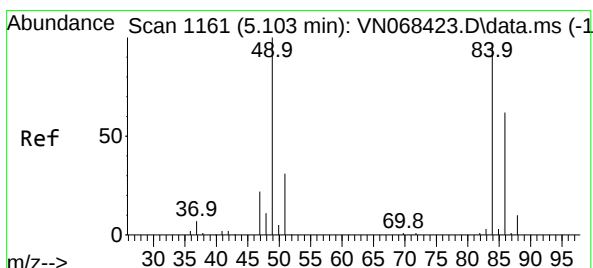
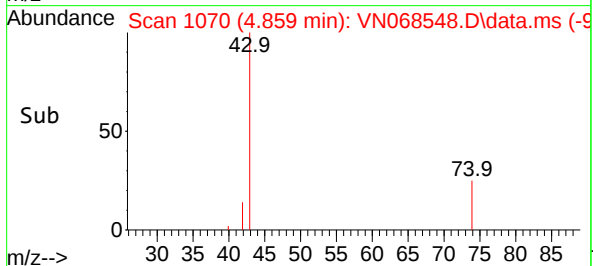
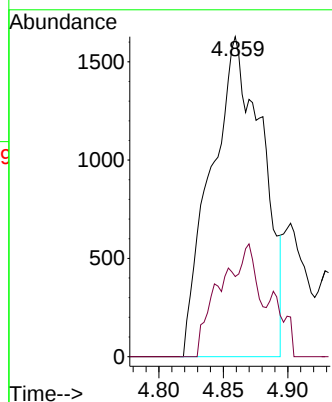
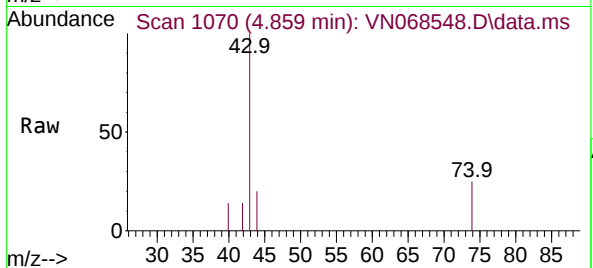
74 12.9 23.5 35.3#

Instrument :

MSVOA_N

ClientSampleId :

NAPL-06-(15-18)



#20

Methylene Chloride

Concen: Below Cal

RT: 5.060 min Scan# 1145

Delta R.T. -0.043 min

Lab File: VN068548.D

Acq: 18 Sep 2021 4:22

Tgt Ion: 84 Resp: 2355

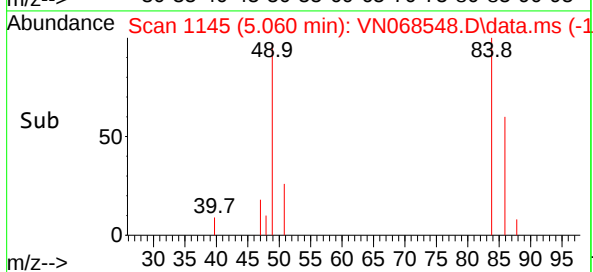
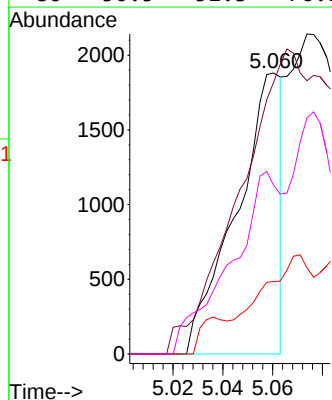
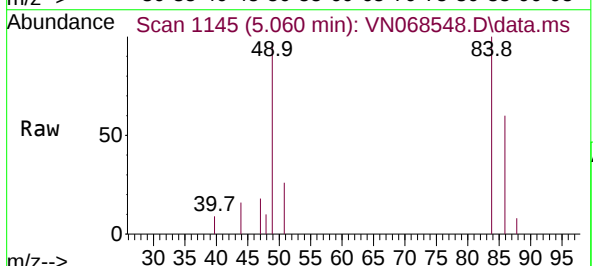
Ion Ratio Lower Upper

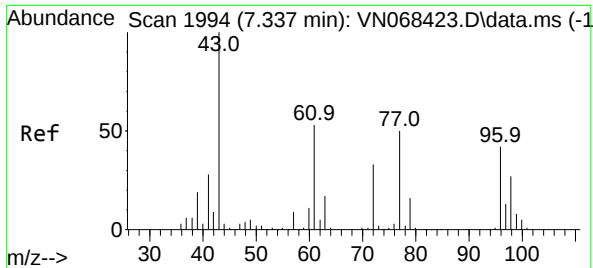
84 100

49 86.5 83.0 124.6

51 25.7 25.4 38.0

86 50.5 51.3 76.9#

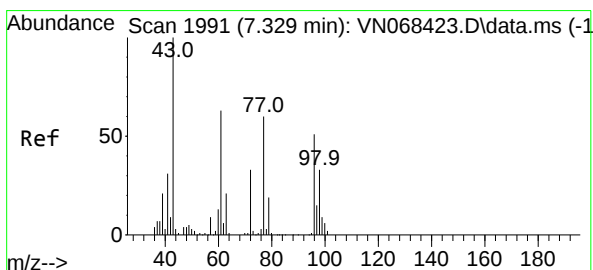
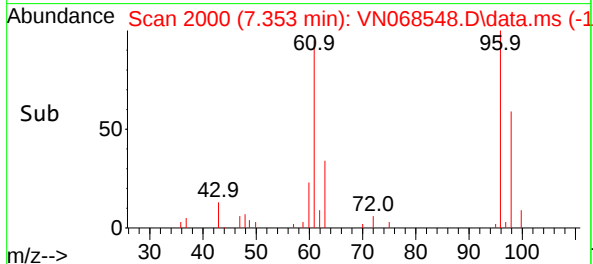
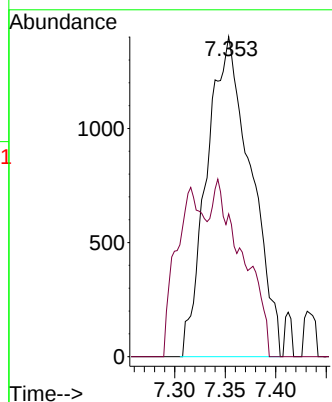
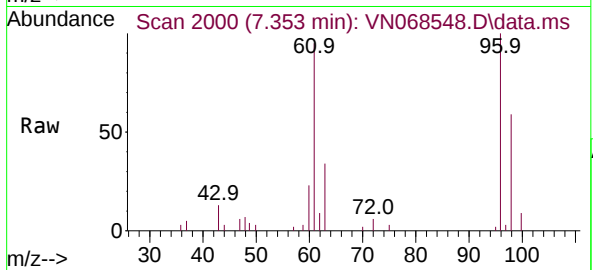




#25
2-Butanone
Concen: 1.565 ug/l
RT: 7.353 min Scan# 2000
Delta R.T. 0.016 min
Lab File: VN068548.D
Acq: 18 Sep 2021 4:22

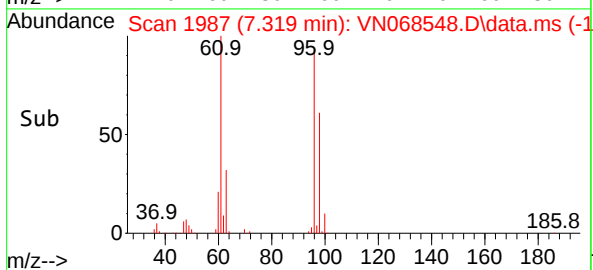
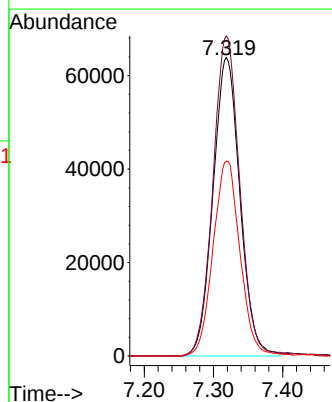
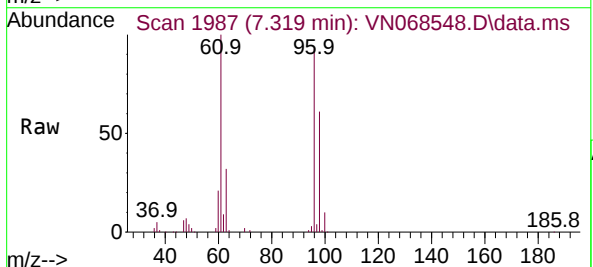
Instrument :
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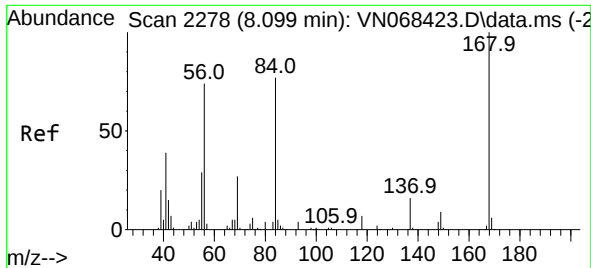
Tgt Ion: 43 Resp: 4260
Ion Ratio Lower Upper
43 100
72 44.6 26.7 40.1#



#27
cis-1,2-Dichloroethene
Concen: 26.814 ug/l
RT: 7.319 min Scan# 1987
Delta R.T. -0.010 min
Lab File: VN068548.D
Acq: 18 Sep 2021 4:22

Tgt Ion: 96 Resp: 172478
Ion Ratio Lower Upper
96 100
61 106.9 0.0 246.4
98 65.4 0.0 130.4

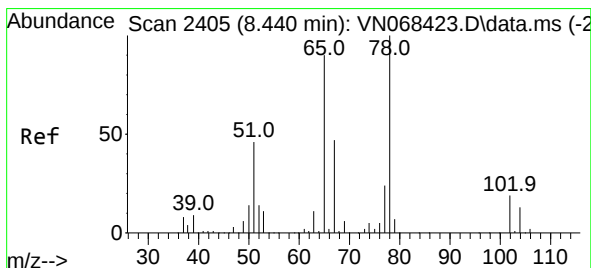
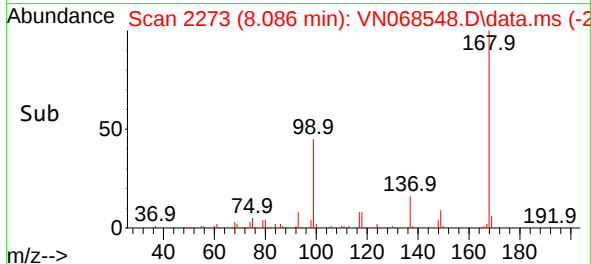
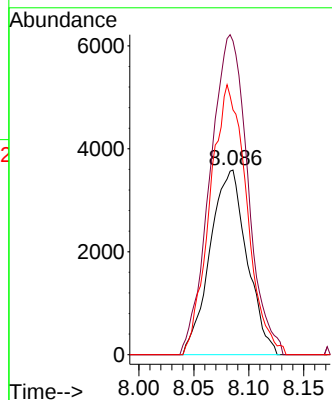
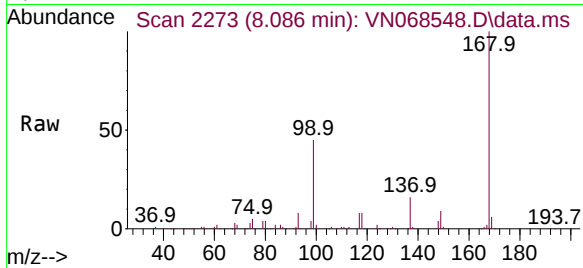




#31
Cyclohexane
Concen: 0.989 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.013 min
Lab File: VN068548.D
Acq: 18 Sep 2021 4:22

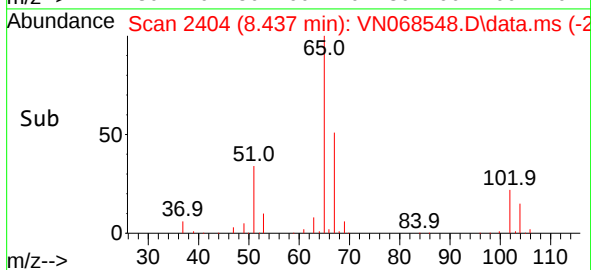
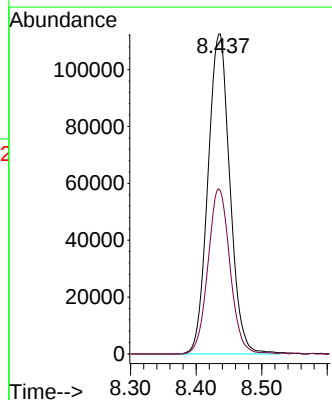
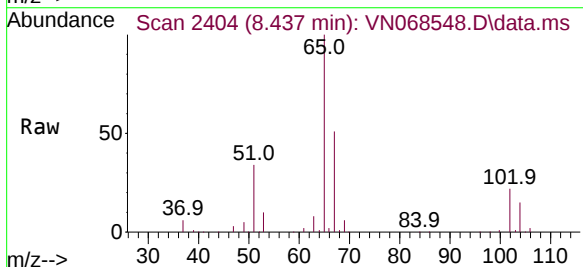
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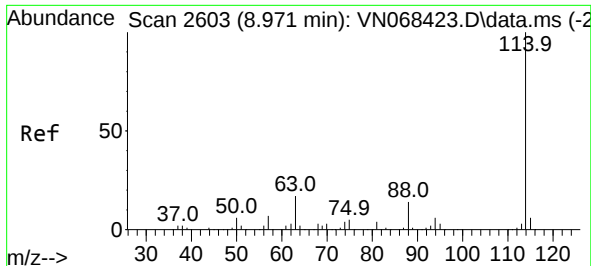
Tgt Ion:	56	Resp:	8391
Ion	Ratio	Lower	Upper
56	100		
69	169.9	29.4	44.0#
84	132.6	83.6	125.4#



#33
1,2-Dichloroethane-d4
Concen: 46.740 ug/l
RT: 8.437 min Scan# 2404
Delta R.T. -0.003 min
Lab File: VN068548.D
Acq: 18 Sep 2021 4:22

Tgt Ion:	65	Resp:	261781
Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	104.0

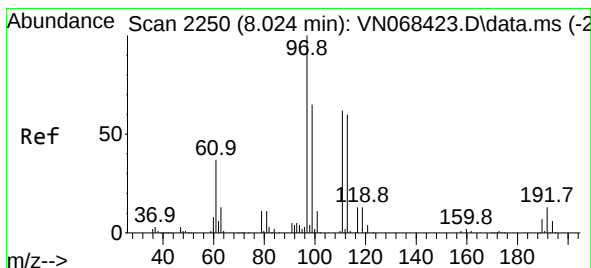
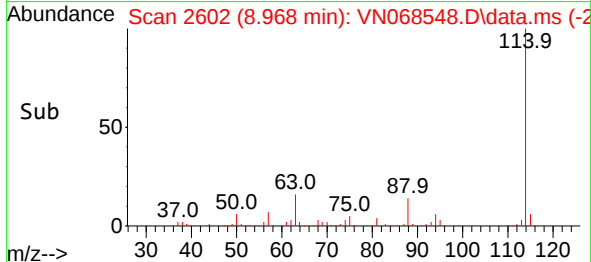
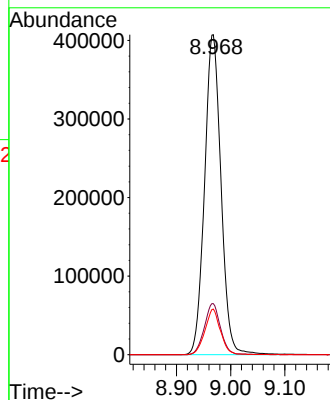
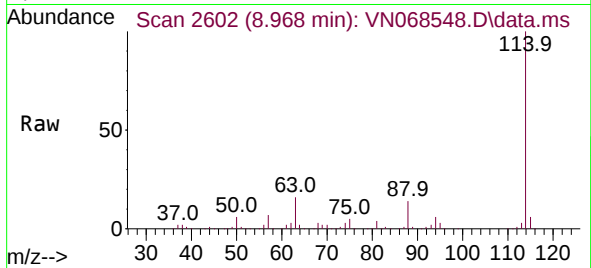




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.968 min Scan# 2602
Delta R.T. -0.003 min
Lab File: VN068548.D
Acq: 18 Sep 2021 4:22

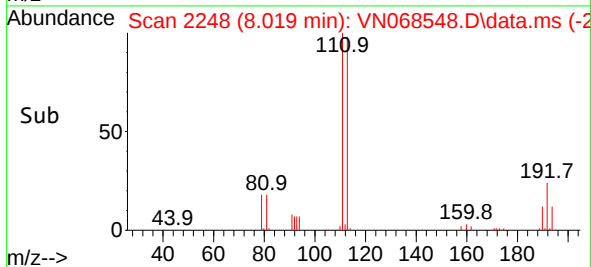
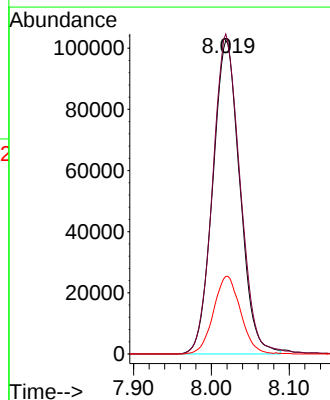
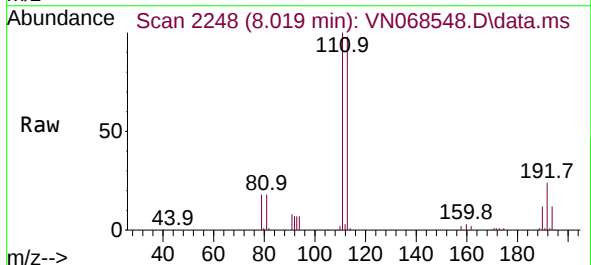
Instrument :
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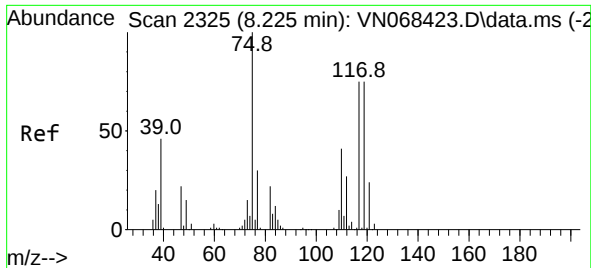
Tgt Ion:114 Resp: 858420
Ion Ratio Lower Upper
114 100
63 16.0 0.0 33.2
88 14.2 0.0 28.4



#35
Dibromofluoromethane
Concen: 47.779 ug/l
RT: 8.019 min Scan# 2248
Delta R.T. -0.005 min
Lab File: VN068548.D
Acq: 18 Sep 2021 4:22

Tgt Ion:113 Resp: 247369
Ion Ratio Lower Upper
113 100
111 103.3 81.1 121.7
192 24.7 17.7 26.5

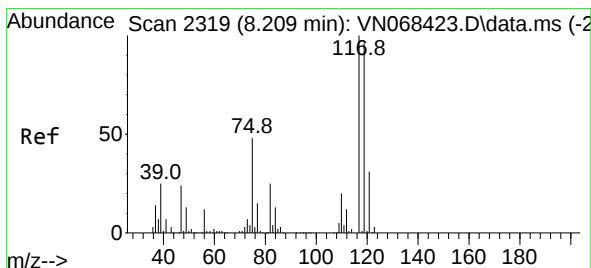
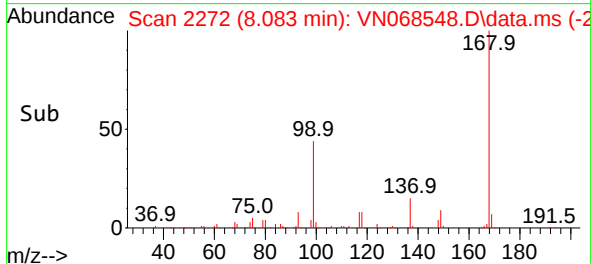
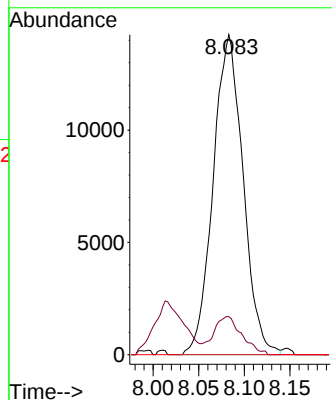
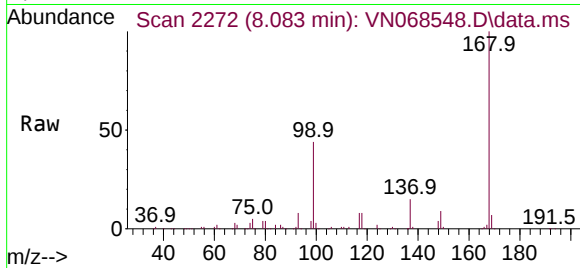




#36
1,1-Dichloropropene
Concen: 4.538 ug/l
RT: 8.083 min Scan# 2272
Delta R.T. -0.142 min
Lab File: VN068548.D
Acq: 18 Sep 2021 4:22

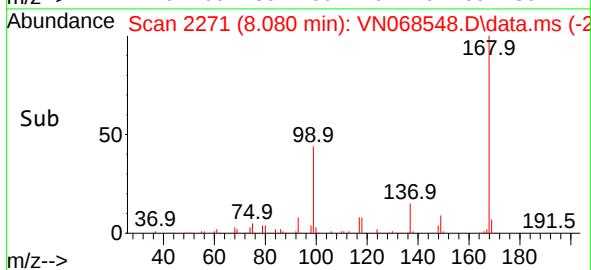
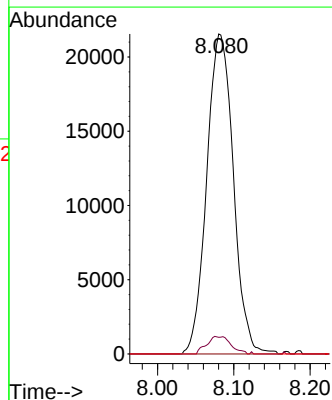
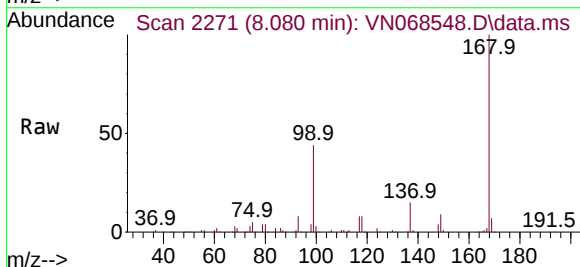
Instrument :
MSVOA_N
ClientSampleId :
NAPL-06-(15-18)

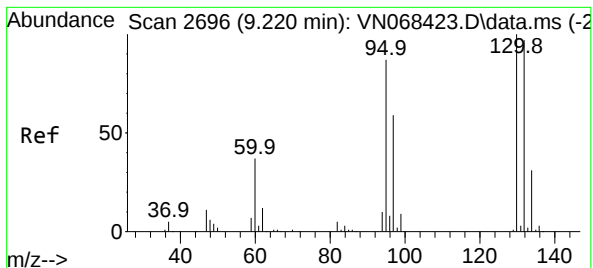
Tgt Ion: 75 Resp: 32475
Ion Ratio Lower Upper
75 100
110 11.0 20.8 62.5#
77 0.0 25.0 37.6#



#38
Carbon Tetrachloride
Concen: 6.095 ug/l
RT: 8.080 min Scan# 2271
Delta R.T. -0.129 min
Lab File: VN068548.D
Acq: 18 Sep 2021 4:22

Tgt Ion: 117 Resp: 52259
Ion Ratio Lower Upper
117 100
119 5.2 76.6 114.8#
121 0.0 24.5 36.7#





#44

Trichloroethene

Concen: 1.576 ug/l

RT: 9.215 min Scan# 2694

Delta R.T. -0.005 min

Lab File: VN068548.D

Acq: 18 Sep 2021 4:22

Tgt Ion:130 Resp: 10571

Ion Ratio Lower Upper

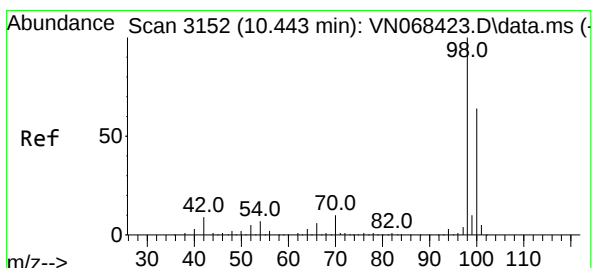
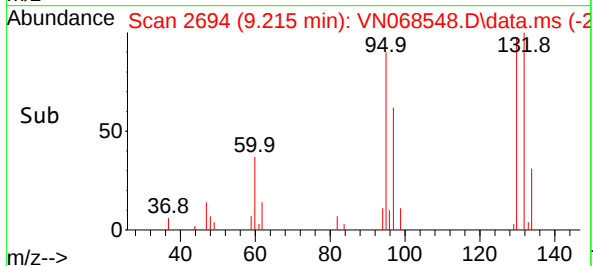
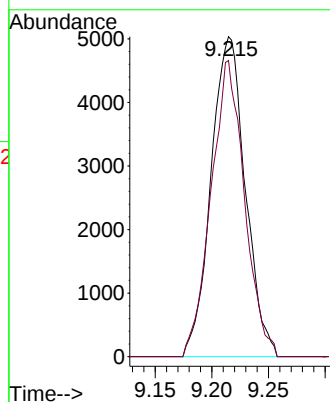
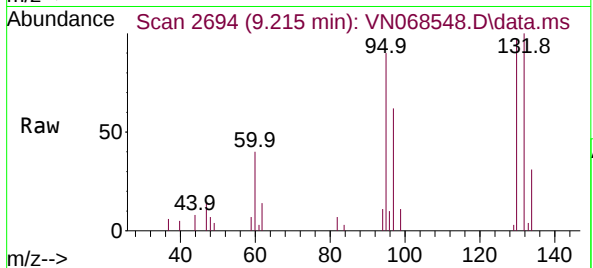
Ion	Ratio	Lower	Upper
130	100		
95	92.6	0.0	173.8

Instrument :

MSVOA_N

ClientSampleId :

NAPL-06-(15-18)



#50

Toluene-d8

Concen: 48.090 ug/l

RT: 10.443 min Scan# 3152

Delta R.T. 0.000 min

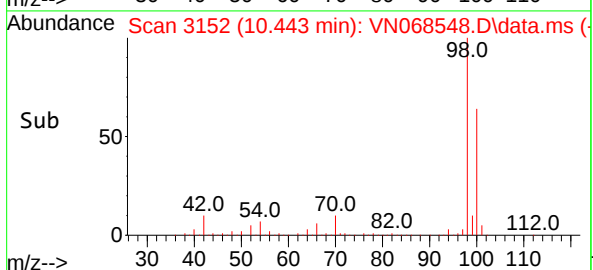
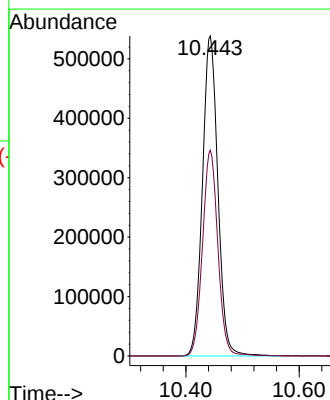
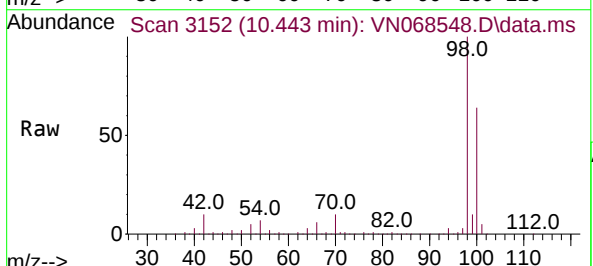
Lab File: VN068548.D

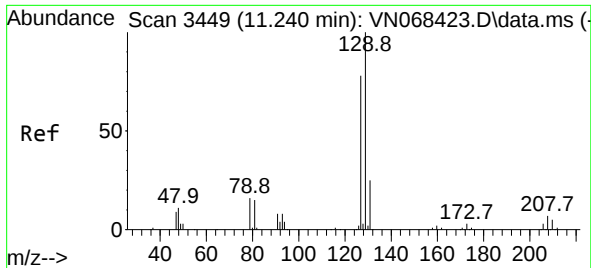
Acq: 18 Sep 2021 4:22

Tgt Ion: 98 Resp: 1018037

Ion Ratio Lower Upper

Ion	Ratio	Lower	Upper
98	100		
100	64.0	51.0	76.6

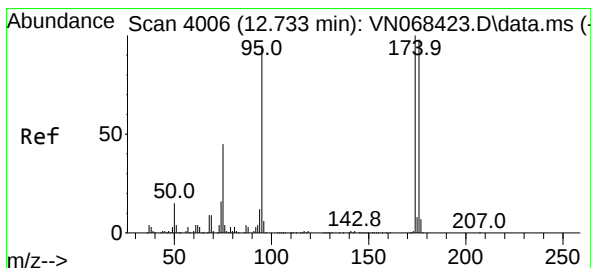
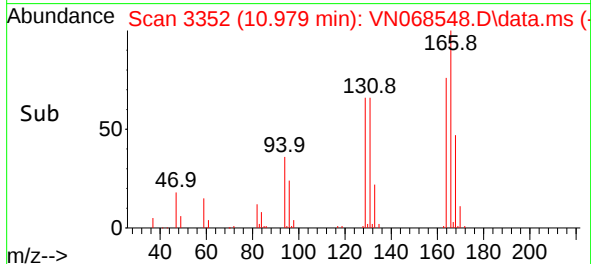
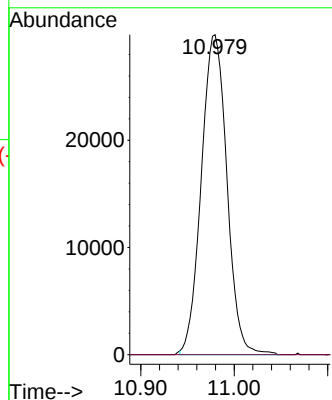
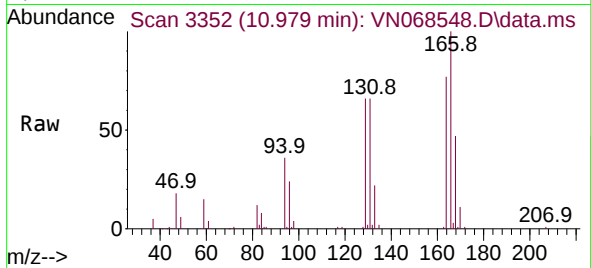




#60
Dibromochloromethane
Concen: 8.982 ug/l
RT: 10.979 min Scan# 3352
Delta R.T. -0.261 min
Lab File: VN068548.D
Acq: 18 Sep 2021 4:22

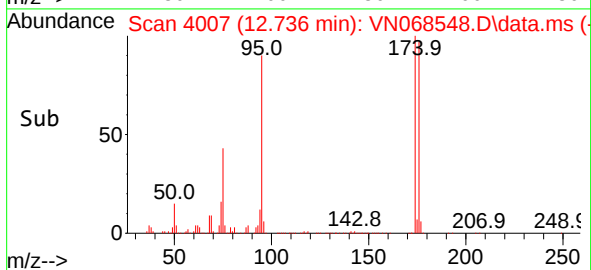
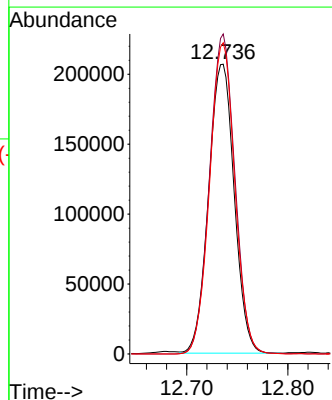
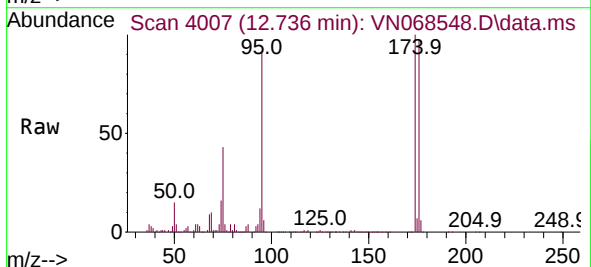
Instrument :
MSVOA_N
ClientSampleId :
NAPL-06-(15-18)

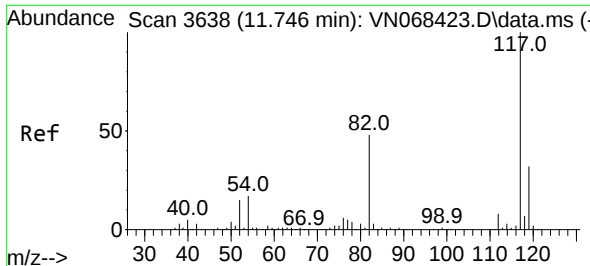
Tgt Ion:129 Resp: 56919
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.3#



#62
4-Bromofluorobenzene
Concen: 51.947 ug/l
RT: 12.736 min Scan# 4007
Delta R.T. 0.003 min
Lab File: VN068548.D
Acq: 18 Sep 2021 4:22

Tgt Ion: 95 Resp: 364836
Ion Ratio Lower Upper
95 100
174 109.5 0.0 214.0
176 105.9 0.0 205.4

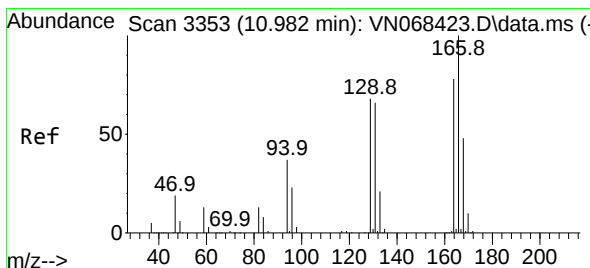
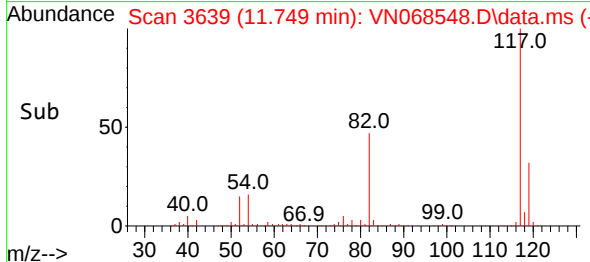
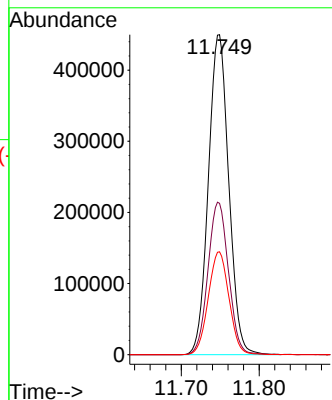
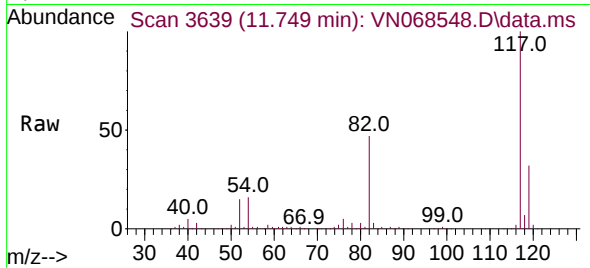




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.749 min Scan# 3639
Delta R.T. 0.003 min
Lab File: VN068548.D
Acq: 18 Sep 2021 4:22

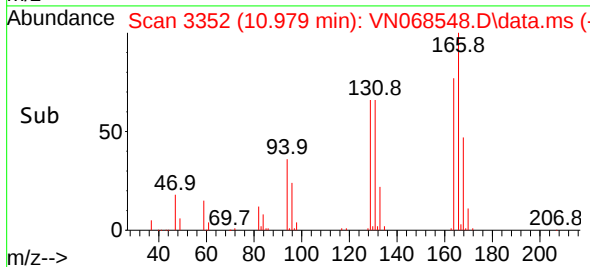
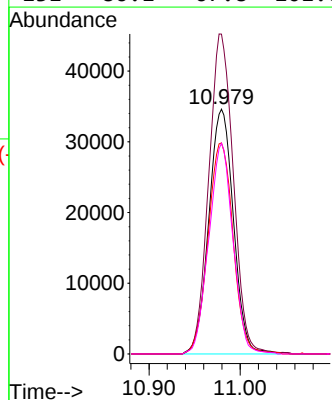
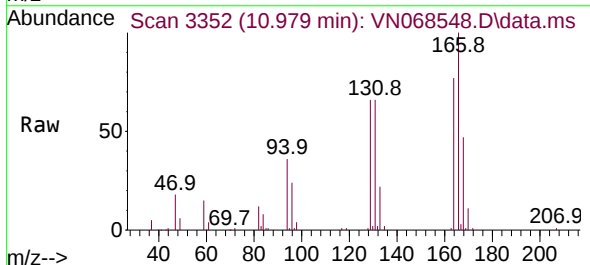
Instrument :
MSVOA_N
ClientSampleId :
NAPL-06-(15-18)

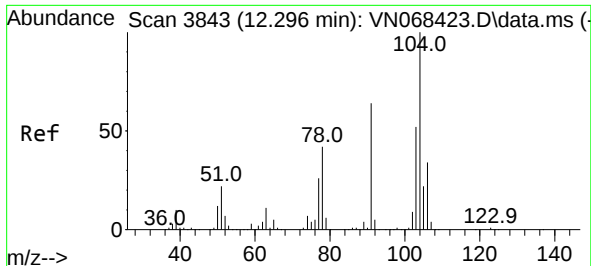
Tgt Ion:117 Resp: 817129
Ion Ratio Lower Upper
117 100
82 47.3 38.7 58.1
119 32.2 25.5 38.3



#64
Tetrachloroethene
Concen: 8.997 ug/l
RT: 10.979 min Scan# 3352
Delta R.T. -0.003 min
Lab File: VN068548.D
Acq: 18 Sep 2021 4:22

Tgt Ion:164 Resp: 65156
Ion Ratio Lower Upper
164 100
166 130.7 102.9 154.3
129 86.2 70.1 105.1
131 86.1 67.8 101.6

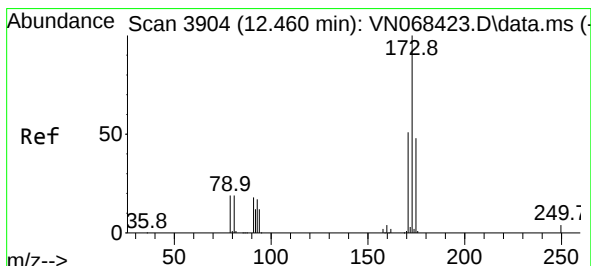
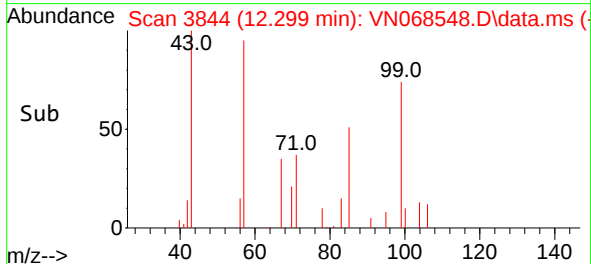
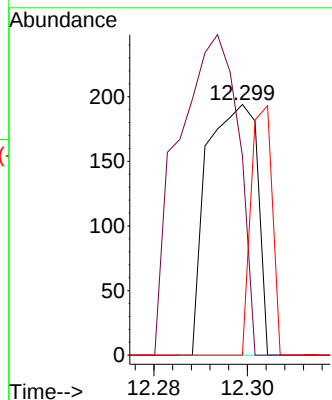
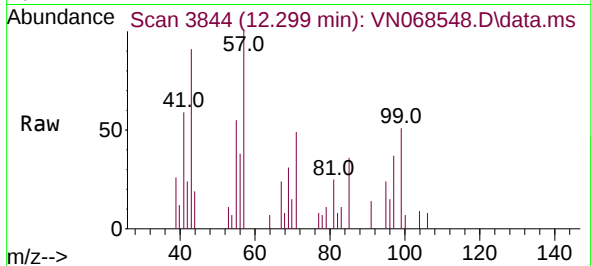




#70
Styrene
Concen: 1.761 ug/l
RT: 12.299 min Scan# 3844
Delta R.T. 0.003 min
Lab File: VN068548.D
Acq: 18 Sep 2021 4:22

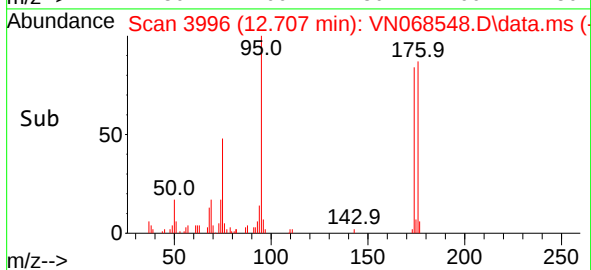
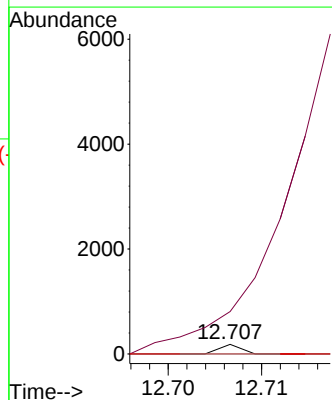
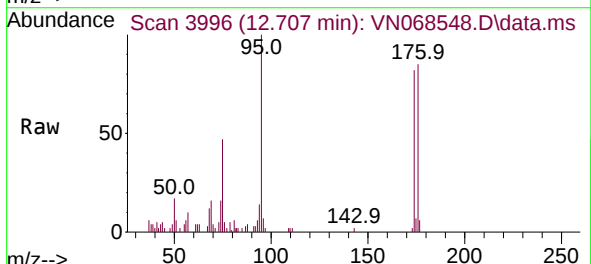
Instrument :
MSVOA_N
ClientSampleId :
NAPL-06-(15-18)

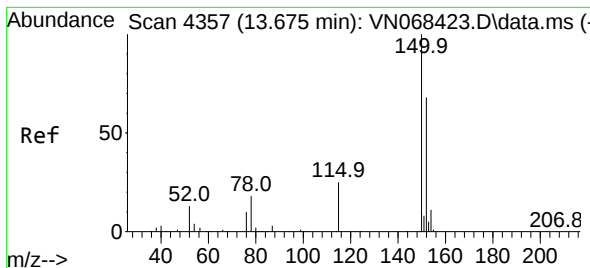
Tgt Ion:104 Resp: 144
Ion Ratio Lower Upper
104 100
78 154.2 36.2 54.2#
103 41.7 44.4 66.6#



#71
Bromoform
Concen: 2.531 ug/l
RT: 12.707 min Scan# 3996
Delta R.T. 0.247 min
Lab File: VN068548.D
Acq: 18 Sep 2021 4:22

Tgt Ion:173 Resp: 30
Ion Ratio Lower Upper
173 100
175 0.0 24.1 72.3#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.677 min Scan# 4358

Delta R.T. 0.002 min

Lab File: VN068548.D

Acq: 18 Sep 2021 4:22

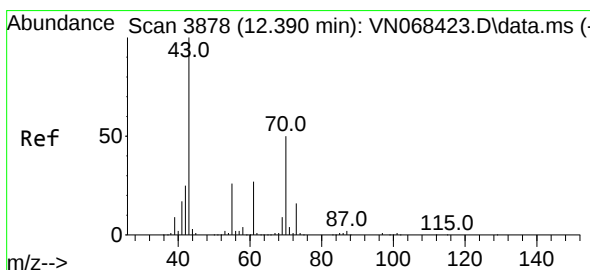
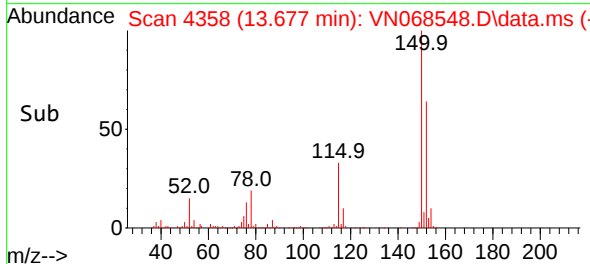
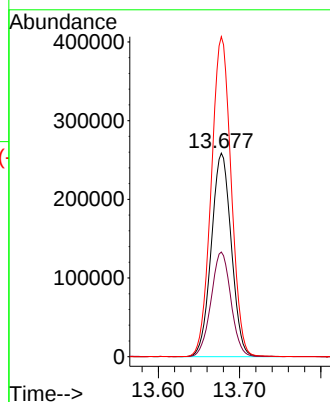
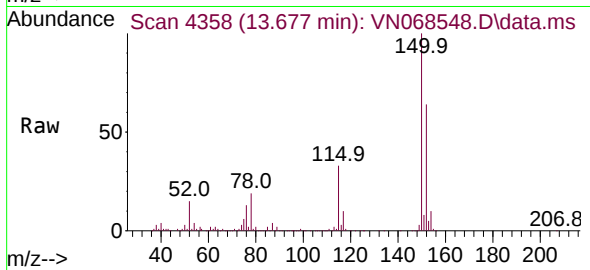
Tgt Ion:152 Resp: 441719

Ion Ratio Lower Upper

152 100

115 50.9 25.6 76.6

150 156.8 0.0 346.8



#74

N-ethyl acetate

Concen: 1.184 ug/l

RT: 12.371 min Scan# 3871

Delta R.T. -0.019 min

Lab File: VN068548.D

Acq: 18 Sep 2021 4:22

Tgt Ion: 43 Resp: 8296

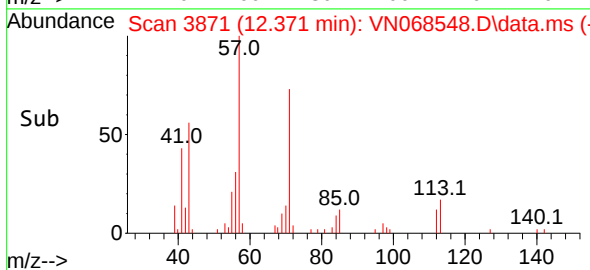
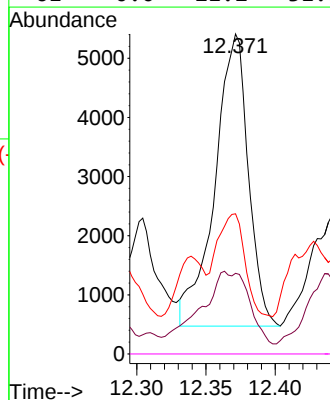
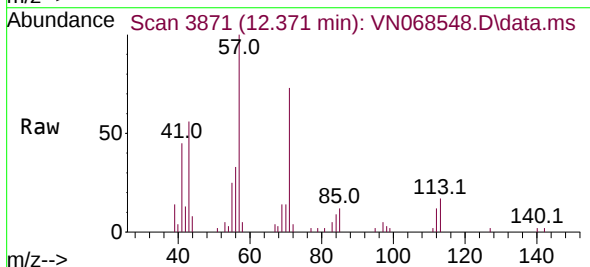
Ion Ratio Lower Upper

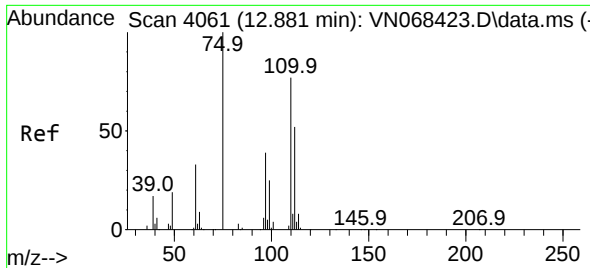
43 100

70 35.2 40.0 60.0#

55 30.1 21.1 31.7

61 0.0 21.2 31.8#

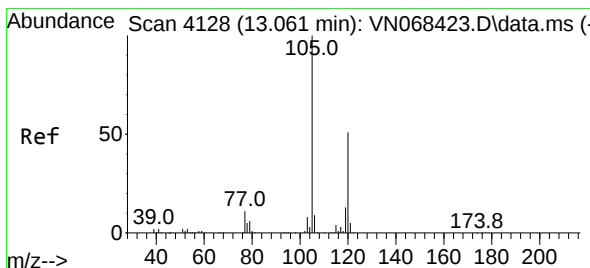
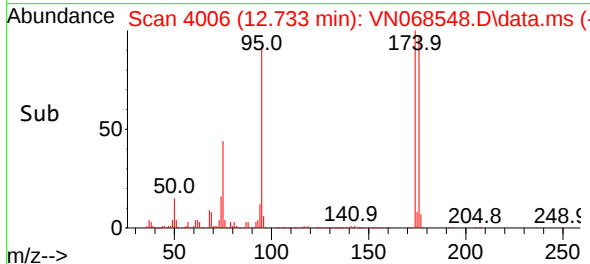
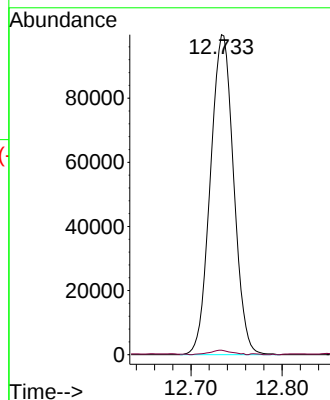
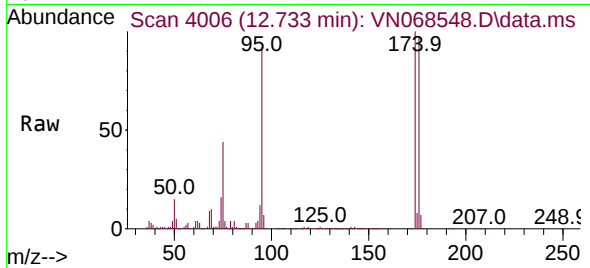




#76
1,2,3-Trichloropropane
Concen: 28.610 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.148 min
Lab File: VN068548.D
Acq: 18 Sep 2021 4:22

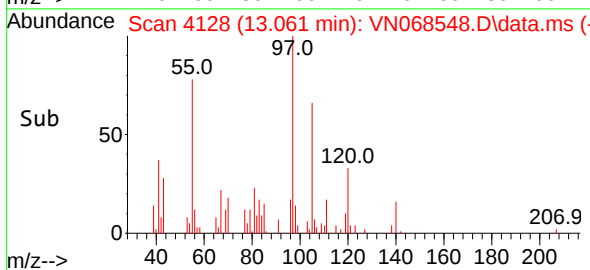
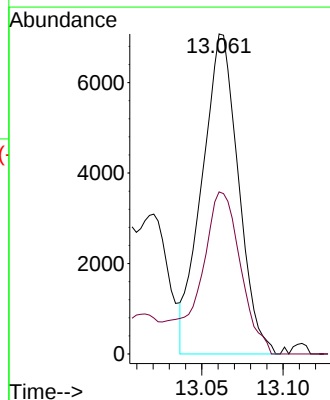
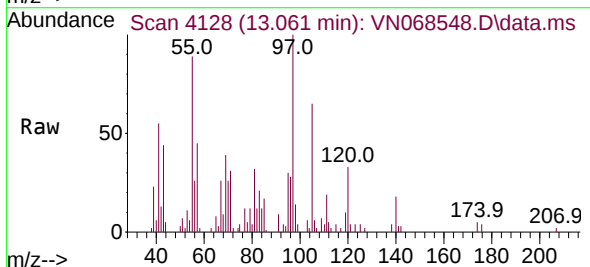
Instrument :
MSVOA_N
ClientSampleId :
NAPL-06-(15-18)

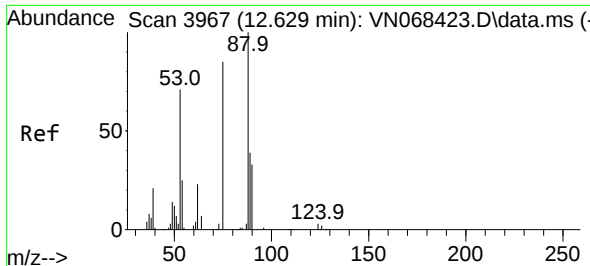
Tgt Ion: 75 Resp: 176641
Ion Ratio Lower Upper
75 100
77 1.3 100.9 302.7#



#80
1,3,5-Trimethylbenzene
Concen: 0.432 ug/l
RT: 13.061 min Scan# 4128
Delta R.T. -0.000 min
Lab File: VN068548.D
Acq: 18 Sep 2021 4:22

Tgt Ion:105 Resp: 11015
Ion Ratio Lower Upper
105 100
120 51.7 25.7 77.1

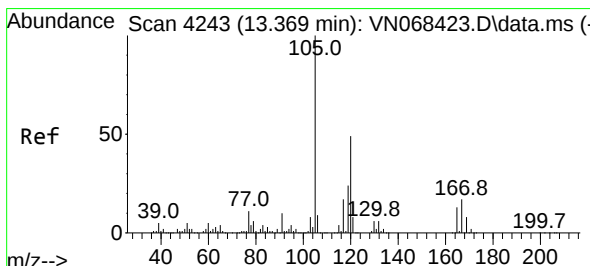
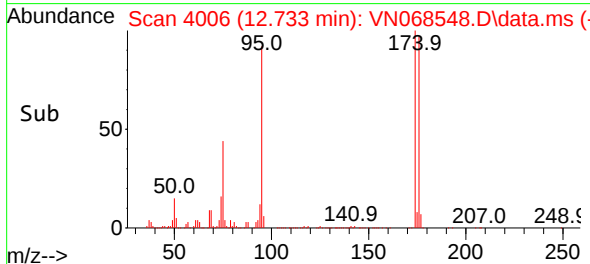
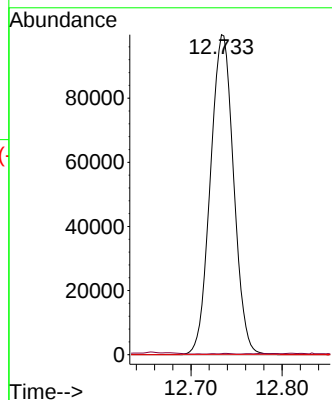
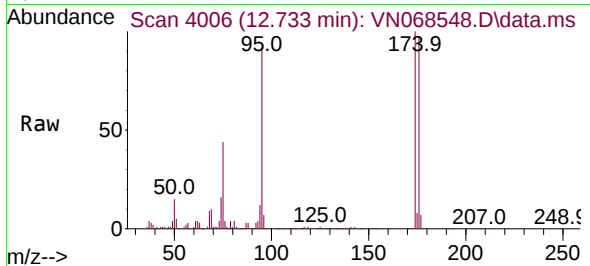




#81
 trans-1,4-Dichloro-2-butene
 Concen: 88.624 ug/l
 RT: 12.733 min Scan# 4006
 Delta R.T. 0.104 min
 Lab File: VN068548.D
 Acq: 18 Sep 2021 4:22

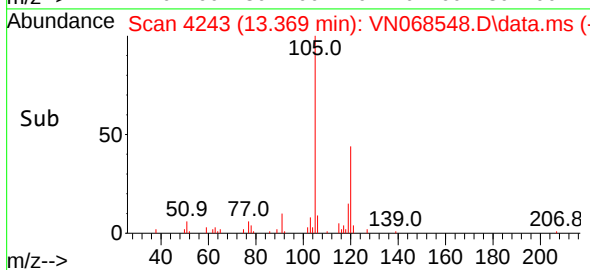
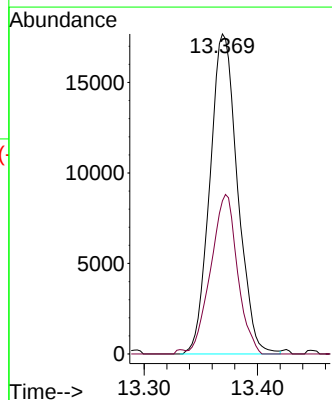
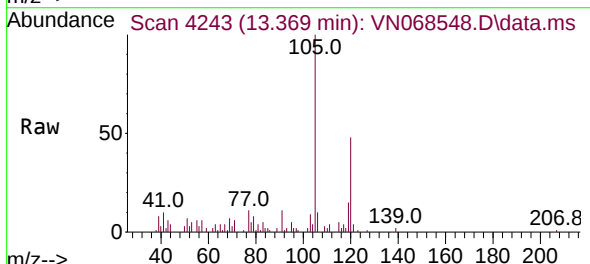
Instrument :
 MSVOA_N
 ClientSampleId :
 NAPL-06-(15-18)

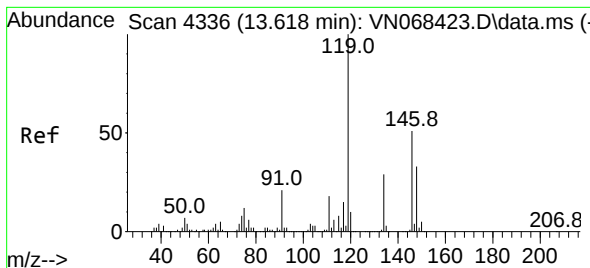
Tgt Ion: 75 Resp: 176641
 Ion Ratio Lower Upper
 75 100
 53 0.1 70.6 105.8#
 89 0.0 39.5 59.3#



#84
 1,2,4-Trimethylbenzene
 Concen: 1.225 ug/l
 RT: 13.369 min Scan# 4243
 Delta R.T. 0.000 min
 Lab File: VN068548.D
 Acq: 18 Sep 2021 4:22

Tgt Ion: 105 Resp: 29985
 Ion Ratio Lower Upper
 105 100
 120 47.9 24.3 72.9

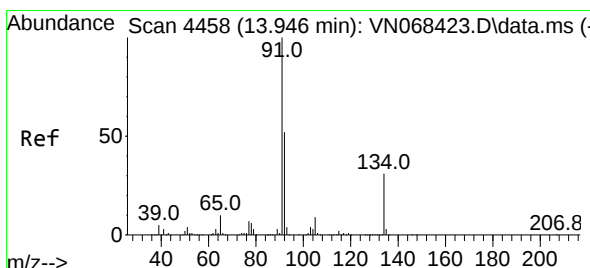
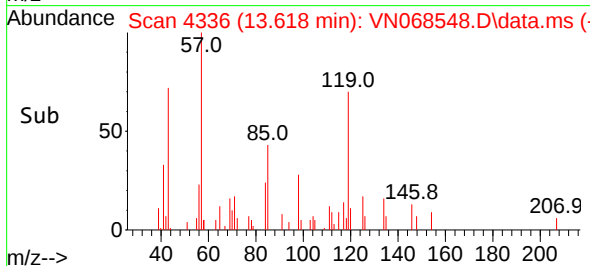
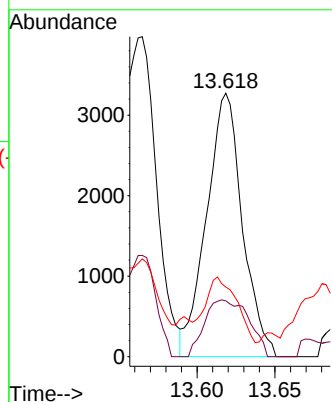
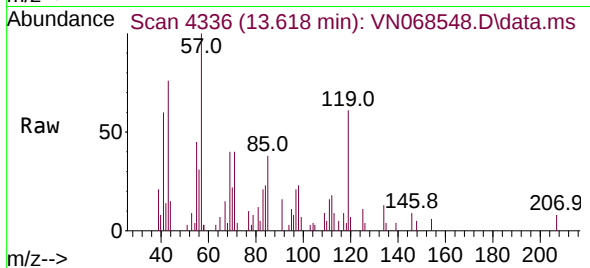




#86
p-Isopropyltoluene
Concen: 0.202 ug/l
RT: 13.618 min Scan# 4336
Delta R.T. 0.000 min
Lab File: VN068548.D
Acq: 18 Sep 2021 4:22

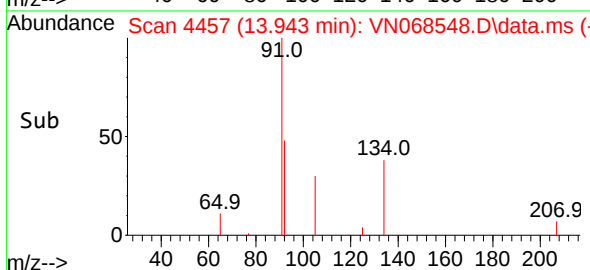
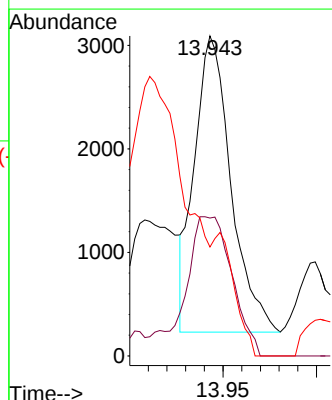
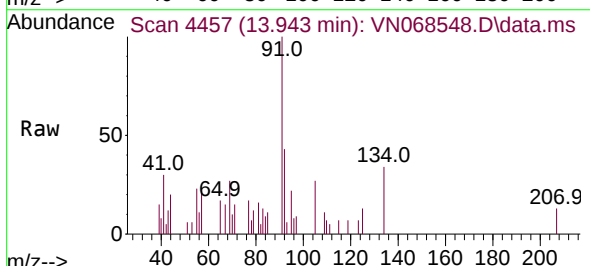
Instrument :
MSVOA_N
ClientSampleId :
NAPL-06-(15-18)

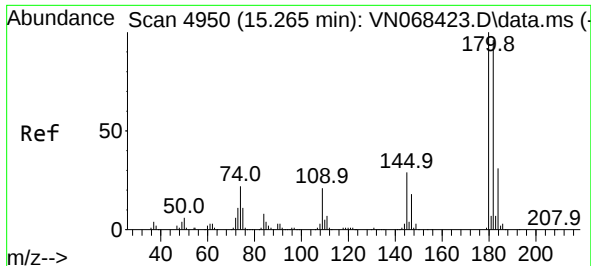
Tgt Ion:119 Resp: 5233
Ion Ratio Lower Upper
119 100
134 26.6 14.1 42.4
91 21.7 10.6 31.8



#89
n-Butylbenzene
Concen: 0.206 ug/l
RT: 13.943 min Scan# 4457
Delta R.T. -0.003 min
Lab File: VN068548.D
Acq: 18 Sep 2021 4:22

Tgt Ion: 91 Resp: 3888
Ion Ratio Lower Upper
91 100
92 60.0 26.0 78.0
134 0.0 15.4 46.2#

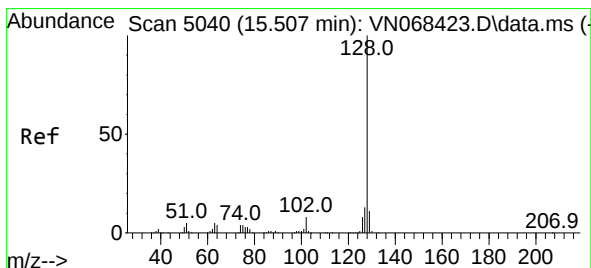
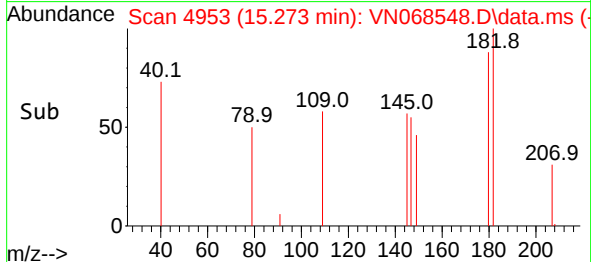
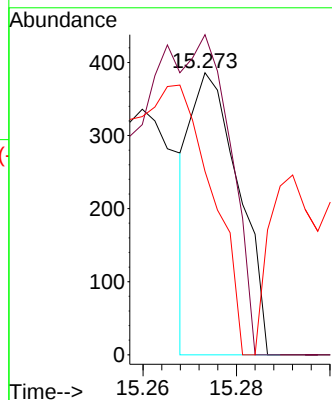
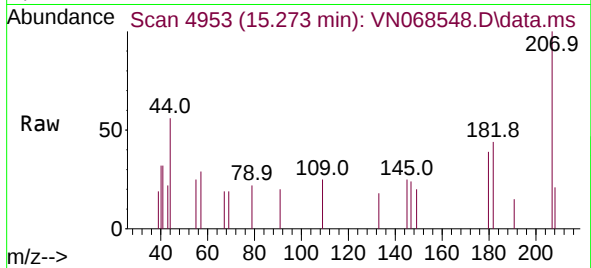




#93
1,2,4-Trichlorobenzene
Concen: 2.991 ug/l
RT: 15.273 min Scan# 4953
Delta R.T. 0.008 min
Lab File: VN068548.D
Acq: 18 Sep 2021 4:22

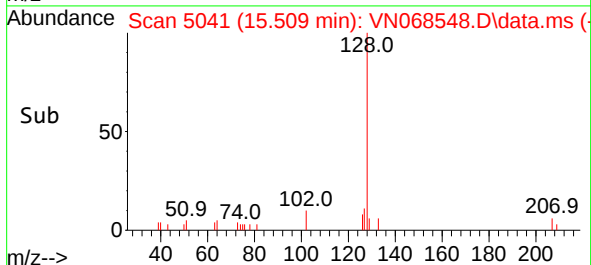
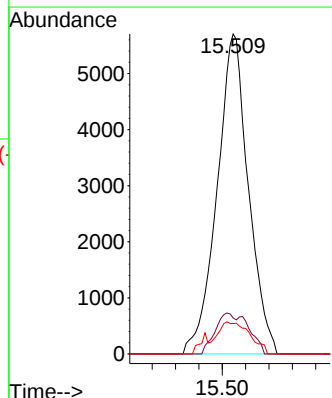
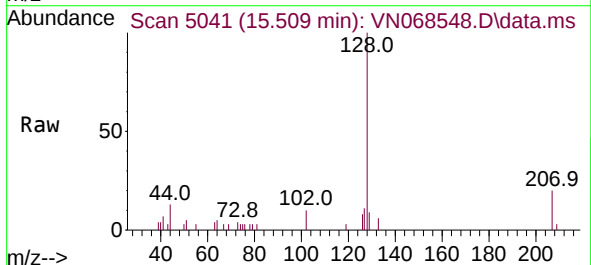
Instrument :
MSVOA_N
ClientSampleId :
NAPL-06-(15-18)

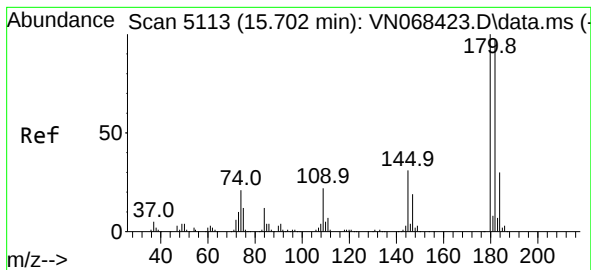
Tgt Ion:180 Resp: 278
Ion Ratio Lower Upper
180 100
182 232.7 47.5 142.6#
145 184.9 14.1 42.4#



#95
Naphthalene
Concen: 4.061 ug/l
RT: 15.509 min Scan# 5041
Delta R.T. 0.002 min
Lab File: VN068548.D
Acq: 18 Sep 2021 4:22

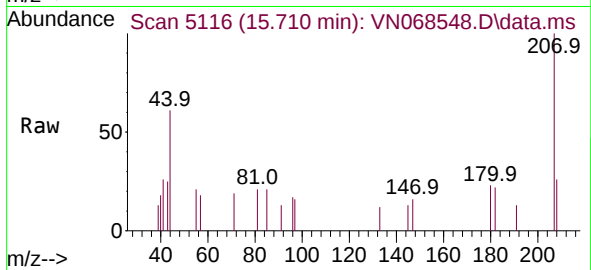
Tgt Ion:128 Resp: 10609
Ion Ratio Lower Upper
128 100
127 8.4 10.6 15.8#
129 10.1 8.6 13.0





#96
 1,2,3-Trichlorobenzene
 Concen: 3.008 ug/l
 RT: 15.710 min Scan# 5116
 Delta R.T. 0.008 min
 Lab File: VN068548.D
 Acq: 18 Sep 2021 4:22

Instrument :
 MSVOA_N
 ClientSampleId :
 NAPL-06-(15-18)



Tgt Ion:180 Resp: 278
 Ion Ratio Lower Upper
 180 100
 182 200.7 47.9 143.6#
 145 84.5 15.2 45.5#

