

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112421\
 Data File : VN069638.D
 Acq On : 24 Nov 2021 13:25
 Operator : JC/MD
 Sample : M4815-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 26 06:57:44 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N110921W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 09 18:18:22 2021
 Response via : Initial Calibration

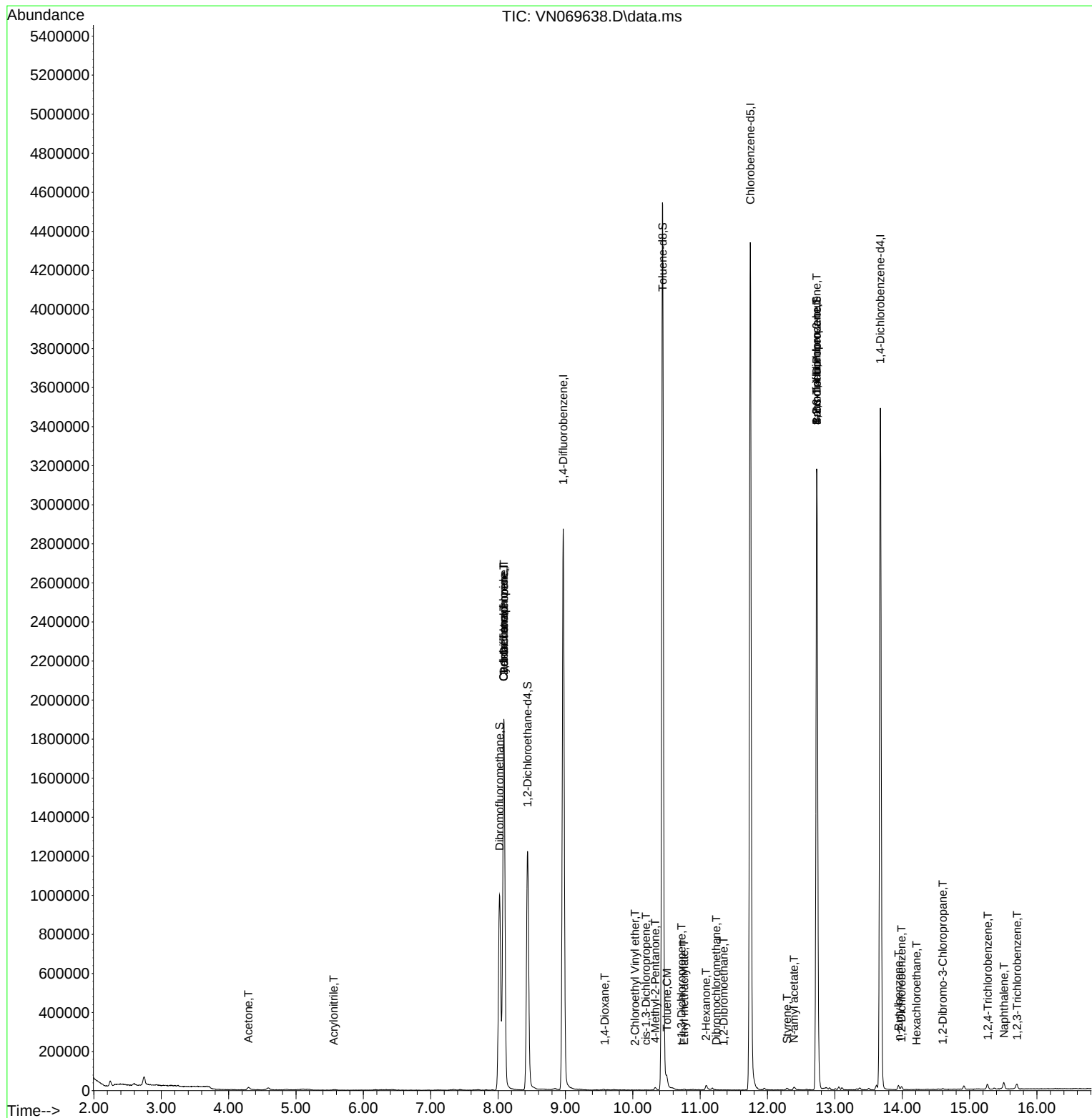
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.086	168	1400905	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.968	114	2468480	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.746	117	2473352	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.675	152	925893	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.437	65	1063708	52.367	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	= 104.740%	
35) Dibromofluoromethane	8.021	113	724959	48.968	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	= 97.940%	
50) Toluene-d8	10.443	98	3123011	53.635	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	= 107.260%	
62) 4-Bromofluorobenzene	12.731	95	1125397	52.612	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	= 105.220%	
Target Compounds						Qvalue
13) Acrolein	4.036	56	1514	Below Cal	#	72
15) Acrylonitrile	5.559	53	2717	0.290	ug/l	# 25
16) Acetone	4.293	43	22072	2.014	ug/l	99
31) Cyclohexane	8.083	56	36201	1.305	ug/l	# 17
36) 1,1-Dichloropropene	8.086	75	119580	5.757	ug/l	# 50
38) Carbon Tetrachloride	8.083	117	148745	7.418	ug/l	# 15
49) 1,4-Dioxane	9.582	88	168	39.443	ug/l	# 1
51) 4-Methyl-2-Pentanone	10.333	43	9161	0.315	ug/l	96
52) Toluene	10.505	92	15101	0.378	ug/l	100
53) t-1,3-Dichloropropene	10.725	75	606	2.659	ug/l	# 1
54) cis-1,3-Dichloropropene	10.196	75	161	1.738	ug/l	# 1
56) Ethyl methacrylate	10.762	69	2322	2.126	ug/l	# 89
58) 2-Chloroethyl Vinyl ether	10.033	63	150	22.788	ug/l	# 45
59) 2-Hexanone	11.087	43	20891	8.765	ug/l	92
60) Dibromochloromethane	11.240	129	250	2.431	ug/l	# 24
61) 1,2-Dibromoethane	11.347	107	176	1.081	ug/l	# 79
70) Styrene	12.291	104	3427	1.580	ug/l	# 59
71) Bromoform	12.731	173	2385	3.588	ug/l	# 1
74) N-amyl acetate	12.393	43	10911	0.349	ug/l	# 77
76) 1,2,3-Trichloropropane	12.731	75	624954	29.248	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.731	75	624954	82.772	ug/l	# 5
89) n-Butylbenzene	13.946	91	13950	0.289	ug/l	91
90) Hexachloroethane	14.211	117	103	2.171	ug/l	# 6
91) 1,2-Dichlorobenzene	13.991	146	6632	0.238	ug/l	93
92) 1,2-Dibromo-3-Chloropr...	14.603	75	703	1.943	ug/l	93
93) 1,2,4-Trichlorobenzene	15.271	180	7814	3.616	ug/l	96
95) Naphthalene	15.509	128	31522	5.150	ug/l	98
96) 1,2,3-Trichlorobenzene	15.705	180	10201	3.855	ug/l	92

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

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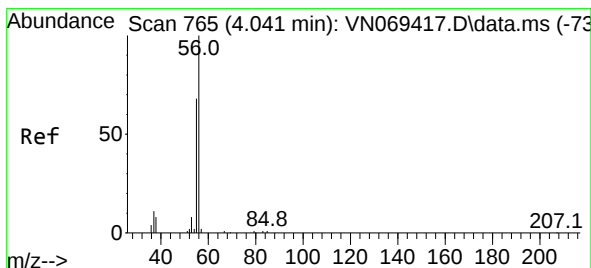
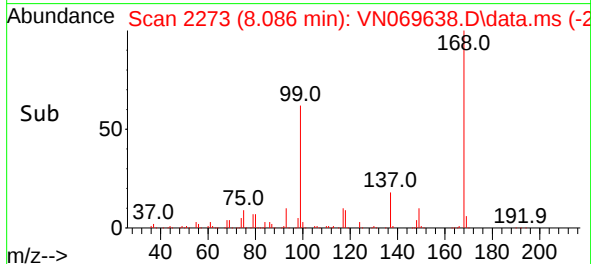
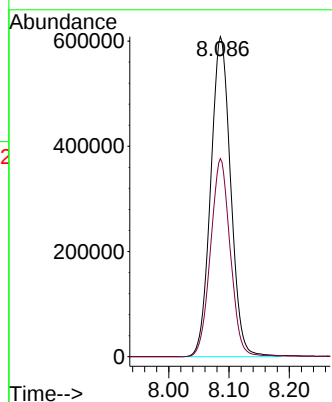
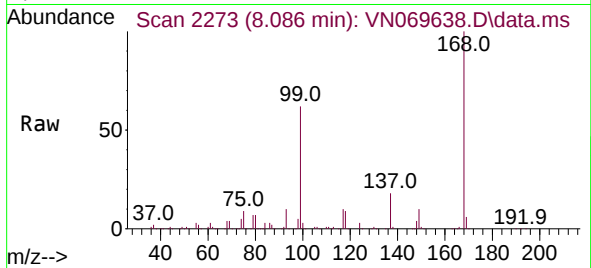




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.086 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN069638.D
Acq: 24 Nov 2021 13:25

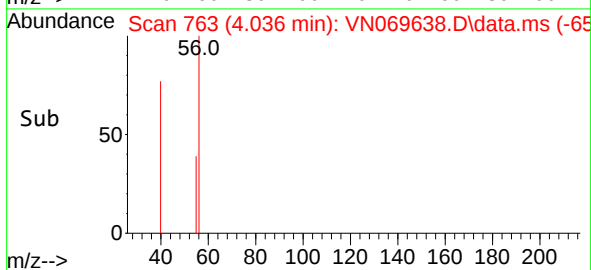
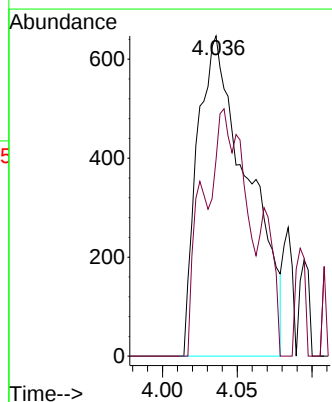
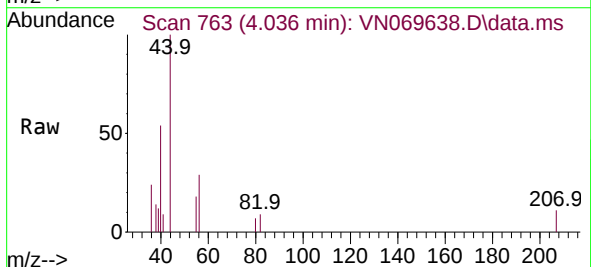
Instrument :
MSVOA_N
ClientSampleId :

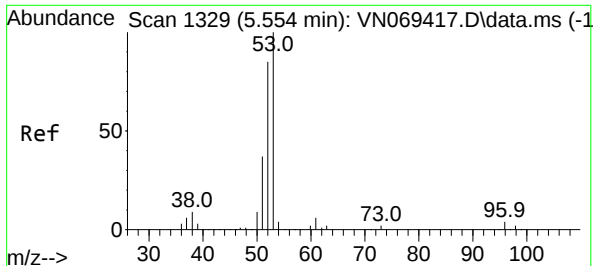
Tgt Ion:168 Resp: 1400905
Ion Ratio Lower Upper
168 100
99 61.9 41.3 61.9#



#13
Acrolein
Concen: Below Cal
RT: 4.036 min Scan# 763
Delta R.T. -0.005 min
Lab File: VN069638.D
Acq: 24 Nov 2021 13:25

Tgt Ion: 56 Resp: 1514
Ion Ratio Lower Upper
56 100
55 48.0 56.6 85.0#





#15

Acrylonitrile

Concen: 0.290 ug/l

RT: 5.559 min Scan# 11

Delta R.T. 0.005 min

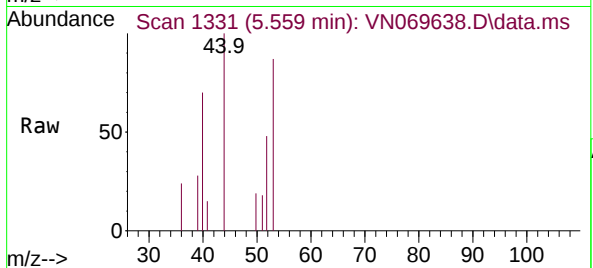
Lab File: VN069638.D

Acq: 24 Nov 2021 13:25

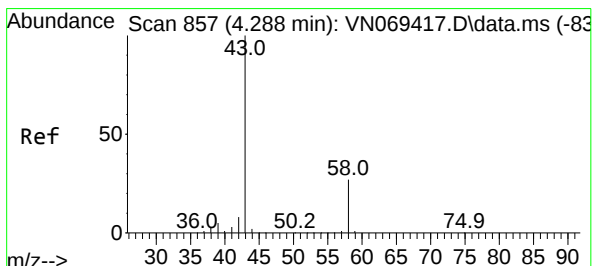
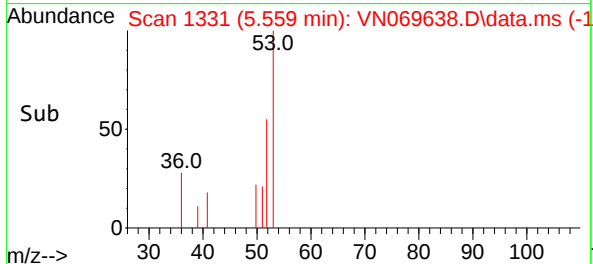
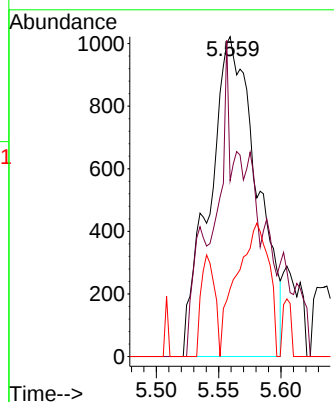
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	53	Resp:	2717
Ion	Ratio	Lower	Upper
53	100		
52	10.1	66.2	99.2#
51	0.0	29.6	44.4#



#16

Acetone

Concen: 2.014 ug/l

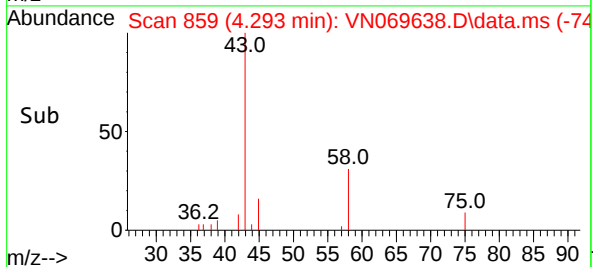
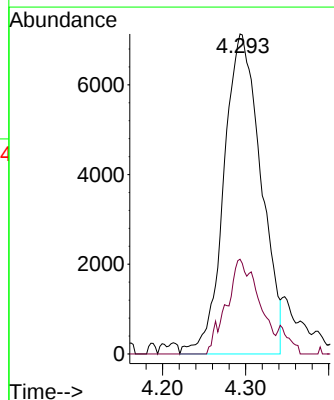
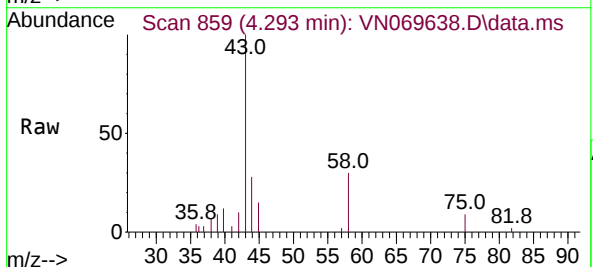
RT: 4.293 min Scan# 859

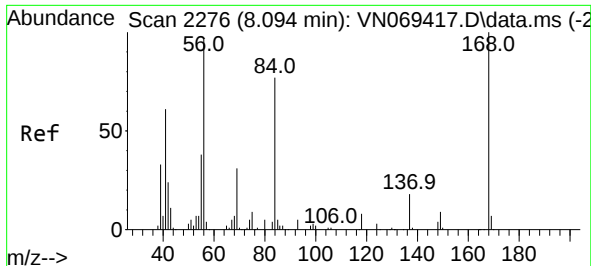
Delta R.T. 0.005 min

Lab File: VN069638.D

Acq: 24 Nov 2021 13:25

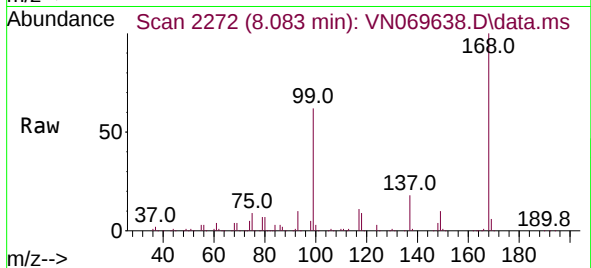
Tgt Ion:	43	Resp:	22072
Ion	Ratio	Lower	Upper
43	100		
58	29.6	23.1	34.7



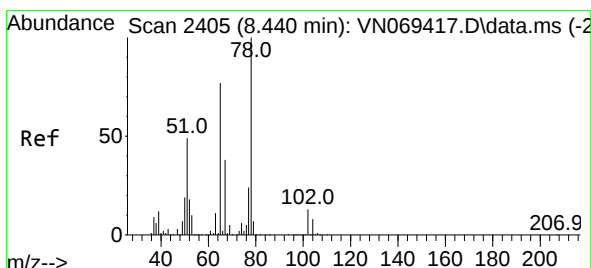
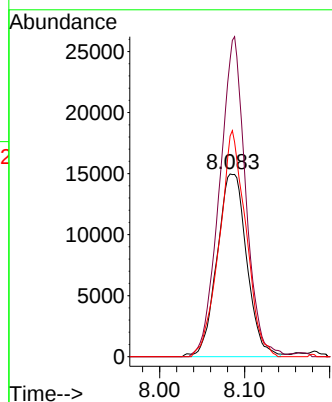
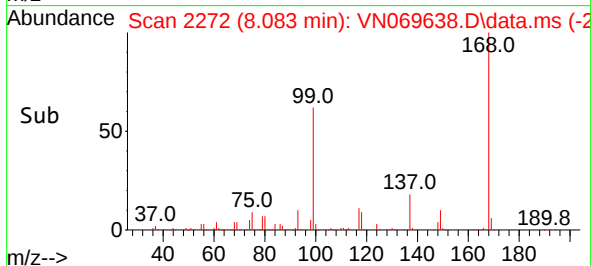


#31
Cyclohexane
Concen: 1.305 ug/l
RT: 8.083 min Scan# 21
Delta R.T. -0.011 min
Lab File: VN069638.D
Acq: 24 Nov 2021 13:25

Instrument :
MSVOA_N
ClientSampleId :

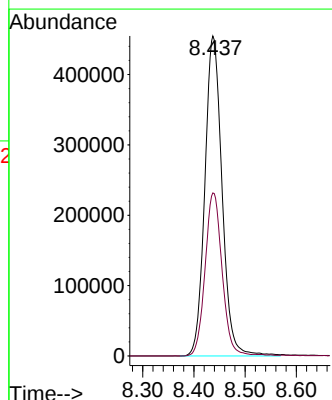
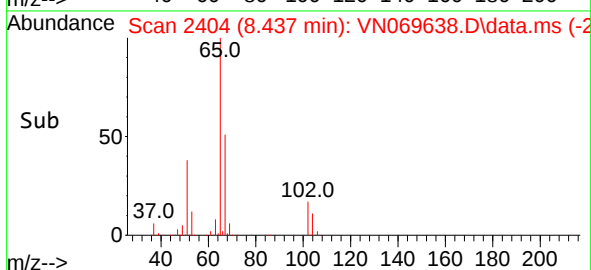
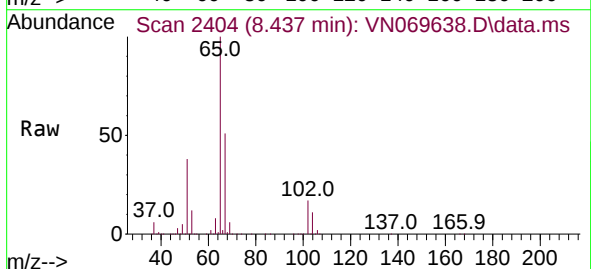


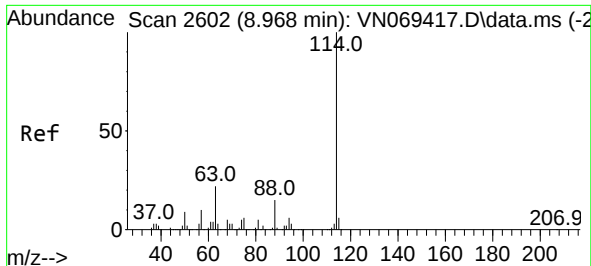
Tgt Ion: 56 Resp: 36201
Ion Ratio Lower Upper
56 100
69 162.5 27.1 40.7#
84 120.7 73.4 110.0#



#33
1,2-Dichloroethane-d4
Concen: 52.367 ug/l
RT: 8.437 min Scan# 2404
Delta R.T. -0.003 min
Lab File: VN069638.D
Acq: 24 Nov 2021 13:25

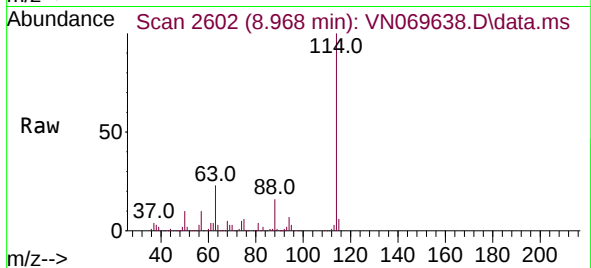
Tgt Ion: 65 Resp: 1063708
Ion Ratio Lower Upper
65 100
67 50.2 0.0 103.0





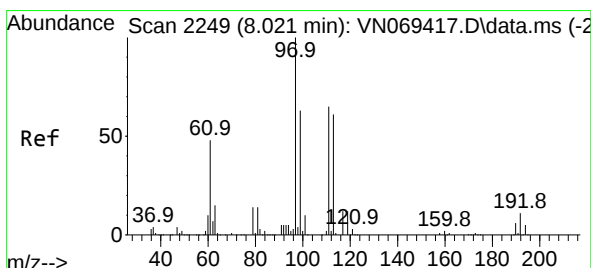
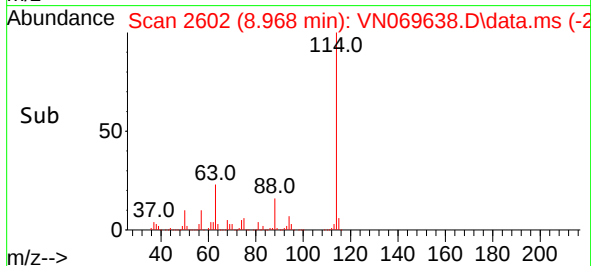
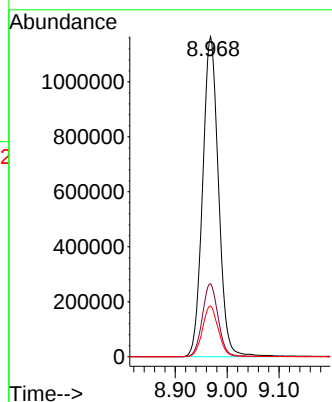
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.968 min Scan# 2602
Delta R.T. -0.000 min
Lab File: VN069638.D
Acq: 24 Nov 2021 13:25

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:114 Resp: 2468480

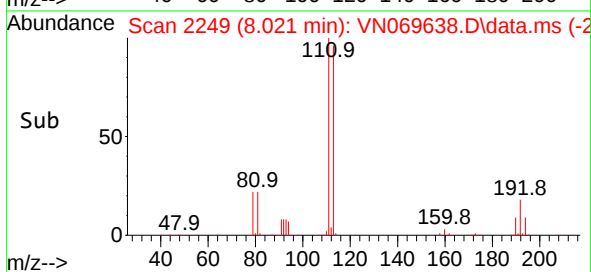
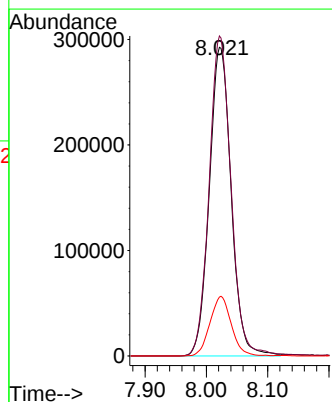
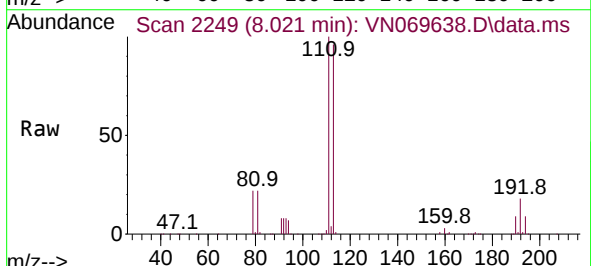
Ion	Ratio	Lower	Upper
114	100		
63	22.8	0.0	37.8
88	15.8	0.0	27.4

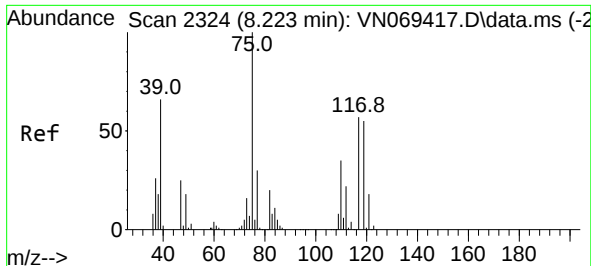


#35
Dibromofluoromethane
Concen: 48.968 ug/l
RT: 8.021 min Scan# 2249
Delta R.T. 0.000 min
Lab File: VN069638.D
Acq: 24 Nov 2021 13:25

Tgt Ion:113 Resp: 724959

Ion	Ratio	Lower	Upper
113	100		
111	104.0	82.2	123.2
192	18.8	16.9	25.3





#36

1,1-Dichloropropene

Concen: 5.757 ug/l

RT: 8.086 min Scan# 21

Delta R.T. -0.137 min

Lab File: VN069638.D

Acq: 24 Nov 2021 13:25

Instrument :

MSVOA_N

ClientSampleId :

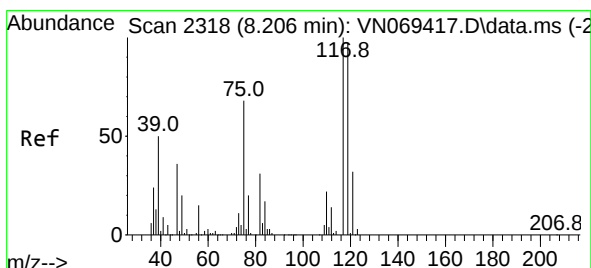
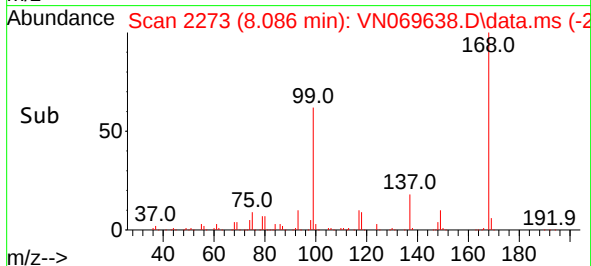
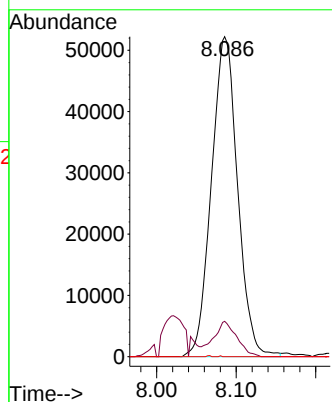
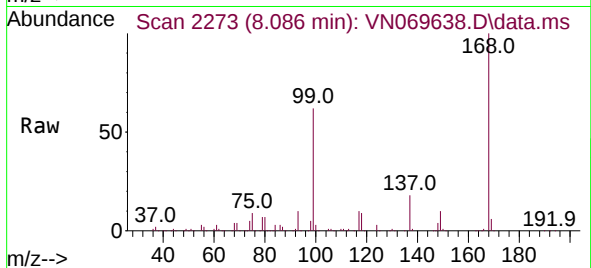
Tgt Ion: 75 Resp: 119580

Ion Ratio Lower Upper

75 100

110 9.6 18.4 55.2#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 7.418 ug/l

RT: 8.083 min Scan# 2272

Delta R.T. -0.123 min

Lab File: VN069638.D

Acq: 24 Nov 2021 13:25

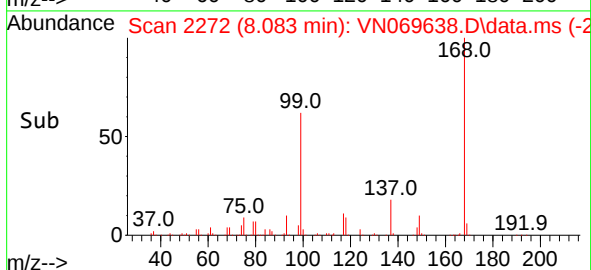
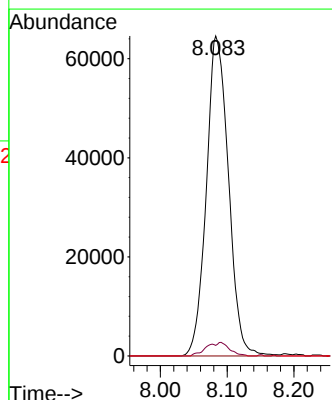
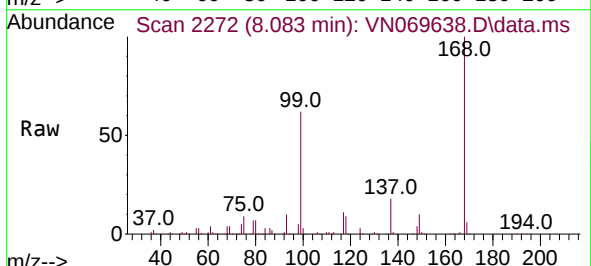
Tgt Ion: 117 Resp: 148745

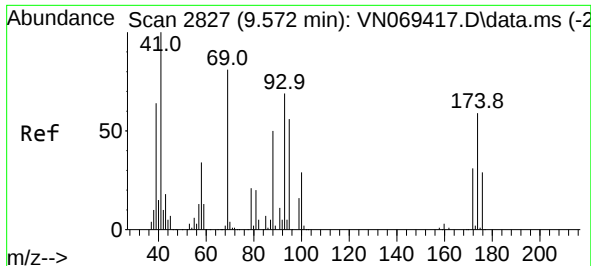
Ion Ratio Lower Upper

117 100

119 3.3 76.1 114.1#

121 0.0 24.2 36.2#





#49

1,4-Dioxane

Concen: 39.443 ug/l

RT: 9.582 min Scan# 21

Delta R.T. 0.010 min MSVOA_N

Lab File: VN069638.D

Acq: 24 Nov 2021 13:25

Instrument :

MSVOA_N

ClientSampleId :

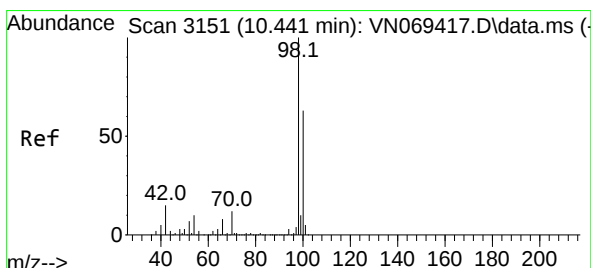
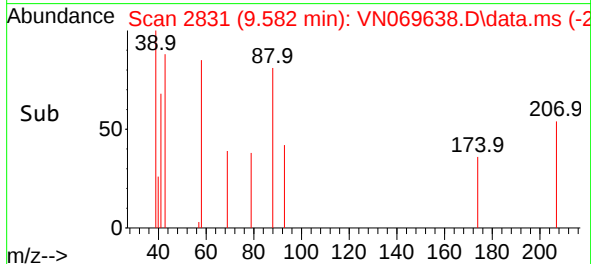
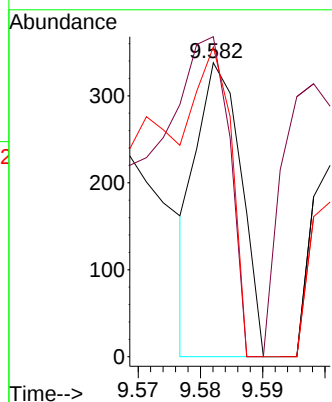
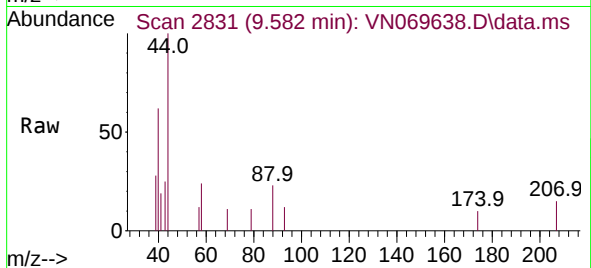
Tgt Ion: 88 Resp: 168

Ion Ratio Lower Upper

88 100

43 145.8 23.4 35.2#

58 222.0 50.6 75.8#



#50

Toluene-d8

Concen: 53.635 ug/l

RT: 10.443 min Scan# 3152

Delta R.T. 0.002 min

Lab File: VN069638.D

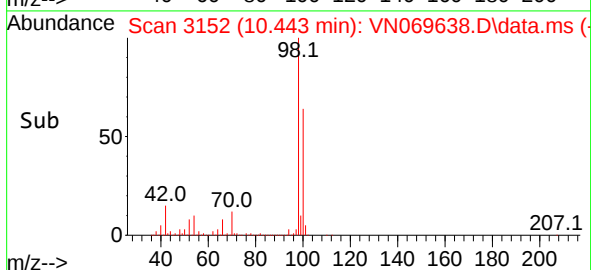
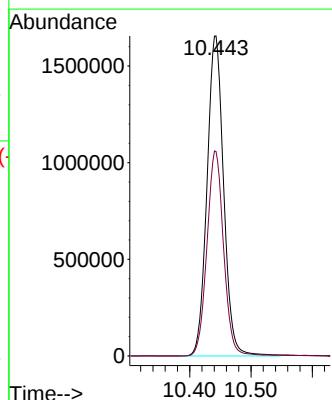
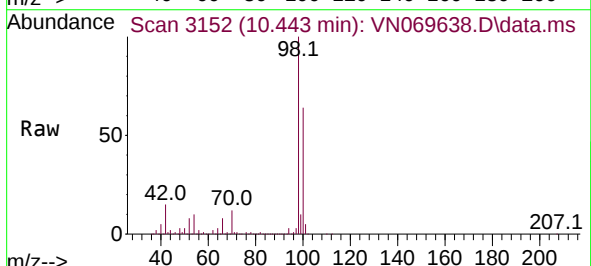
Acq: 24 Nov 2021 13:25

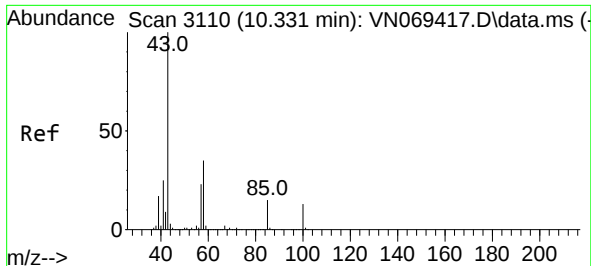
Tgt Ion: 98 Resp: 3123011

Ion Ratio Lower Upper

98 100

100 64.0 50.4 75.6





#51

4-Methyl-2-Pentanone

Concen: 0.315 ug/l

RT: 10.333 min Scan# 3111

Delta R.T. 0.002 min

Lab File: VN069638.D

Acq: 24 Nov 2021 13:25

Instrument :

MSVOA_N

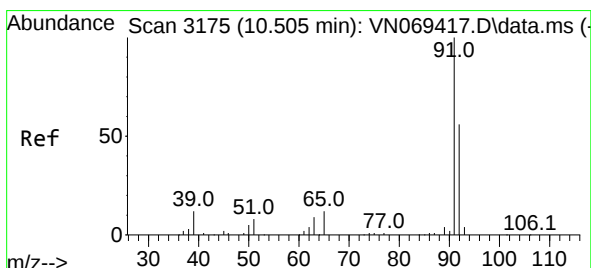
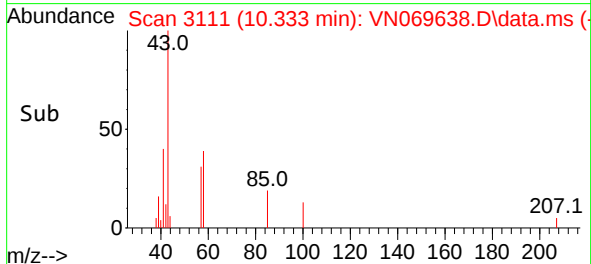
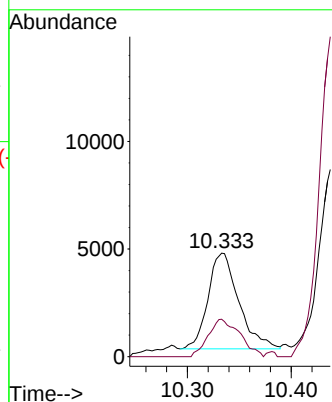
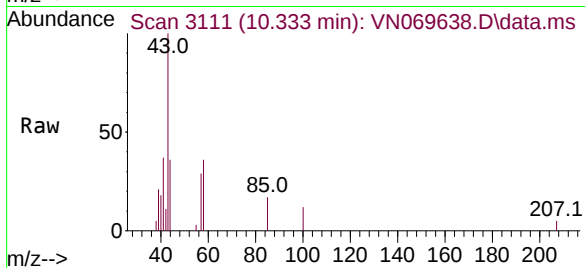
ClientSampleId :

Tgt Ion: 43 Resp: 9161

Ion Ratio Lower Upper

43 100

58 40.1 30.4 45.6



#52

Toluene

Concen: 0.378 ug/l

RT: 10.505 min Scan# 3175

Delta R.T. -0.000 min

Lab File: VN069638.D

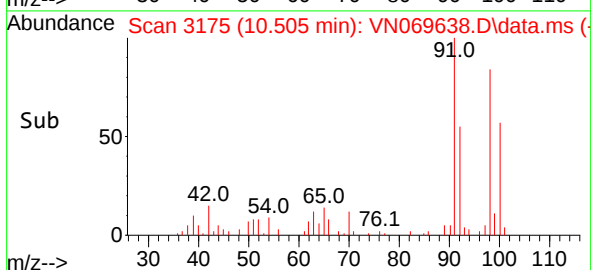
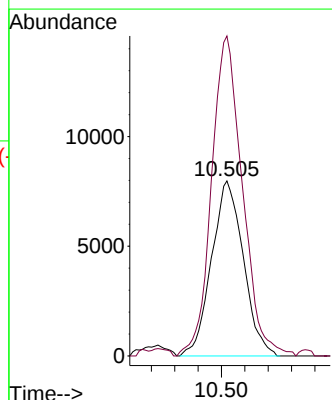
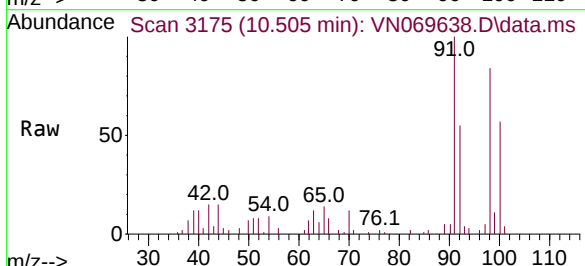
Acq: 24 Nov 2021 13:25

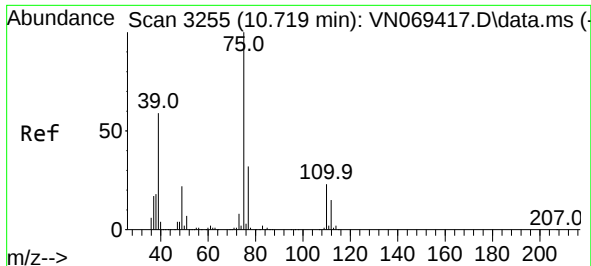
Tgt Ion: 92 Resp: 15101

Ion Ratio Lower Upper

92 100

91 177.2 142.0 213.0

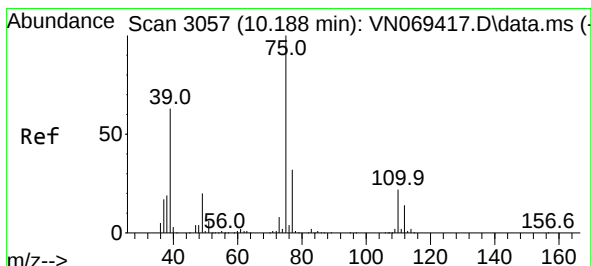
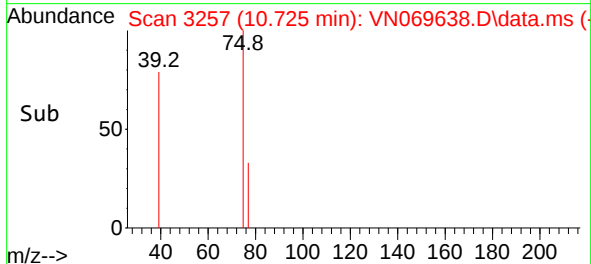
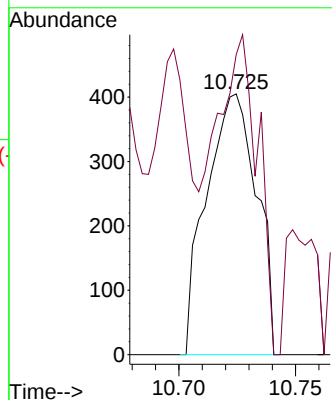
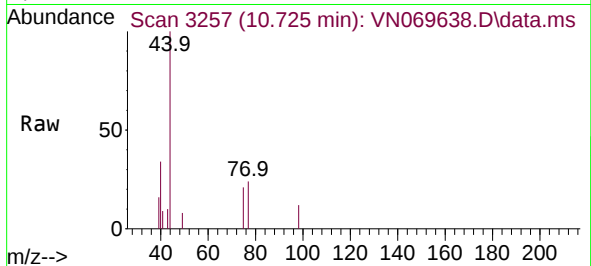




#53
t-1,3-Dichloropropene
Concen: 2.659 ug/l
RT: 10.725 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN069638.D
Acq: 24 Nov 2021 13:25

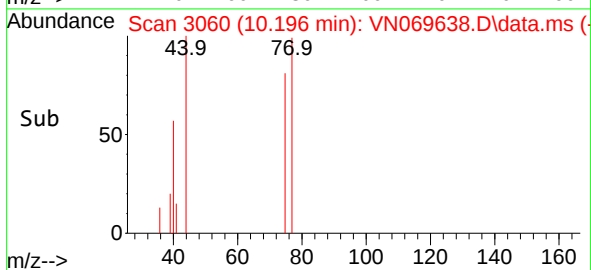
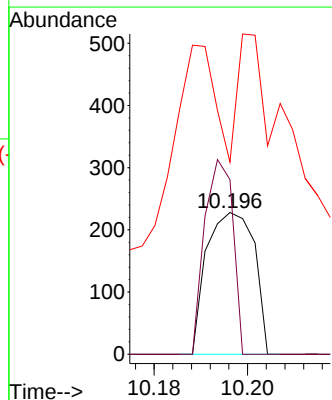
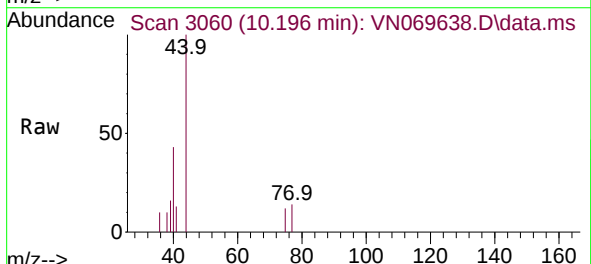
Instrument :
MSVOA_N
ClientSampleId :

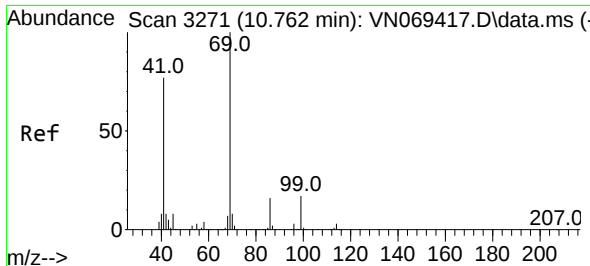
Tgt Ion: 75 Resp: 606
Ion Ratio Lower Upper
75 100
77 115.1 25.6 38.4#



#54
cis-1,3-Dichloropropene
Concen: 1.738 ug/l
RT: 10.196 min Scan# 3060
Delta R.T. 0.008 min
Lab File: VN069638.D
Acq: 24 Nov 2021 13:25

Tgt Ion: 75 Resp: 161
Ion Ratio Lower Upper
75 100
77 123.2 26.4 39.6#
39 0.0 42.5 63.7#

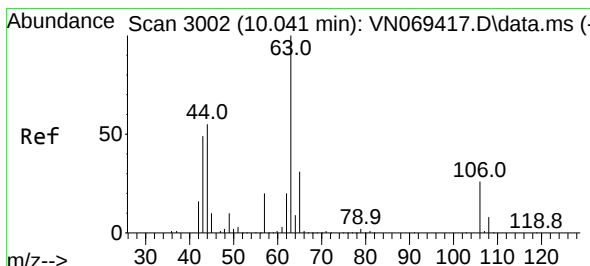
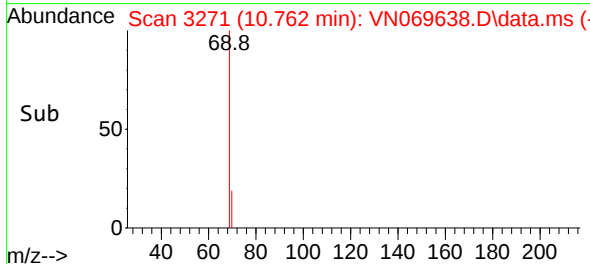
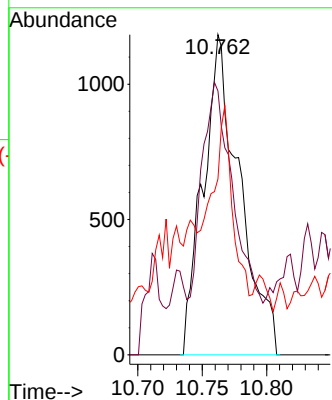
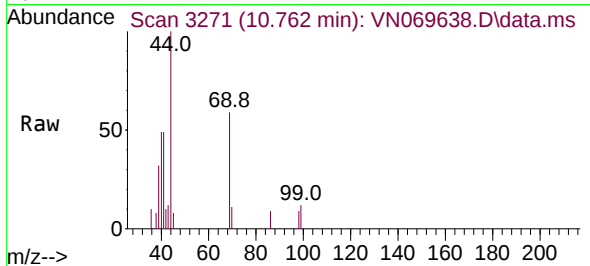




#56
Ethyl methacrylate
Concen: 2.126 ug/l
RT: 10.762 min Scan# 31
Delta R.T. 0.000 min
Lab File: VN069638.D
Acq: 24 Nov 2021 13:25

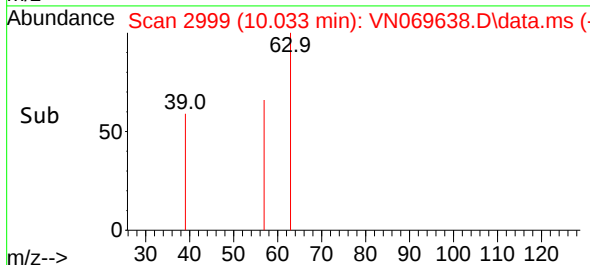
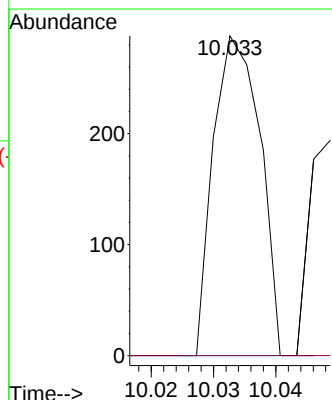
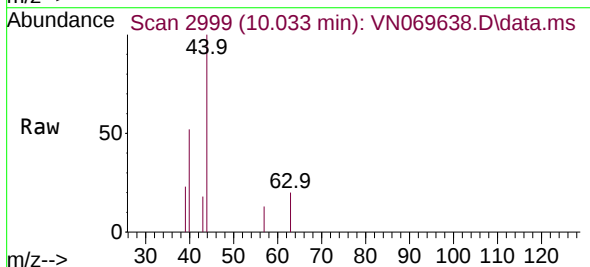
Instrument :
MSVOA_N
ClientSampleId :

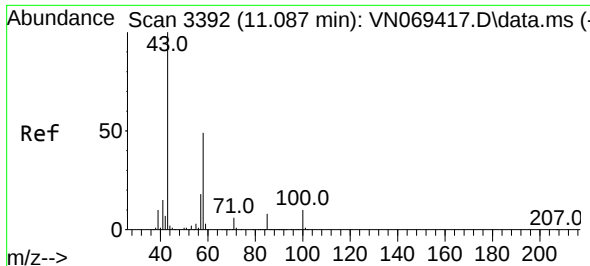
Tgt Ion: 69 Resp: 2322
Ion Ratio Lower Upper
69 100
41 68.0 51.4 77.0
39 31.0 34.6 52.0#



#58
2-Chloroethyl Vinyl ether
Concen: 22.788 ug/l
RT: 10.033 min Scan# 2999
Delta R.T. -0.008 min
Lab File: VN069638.D
Acq: 24 Nov 2021 13:25

Tgt Ion: 63 Resp: 150
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#

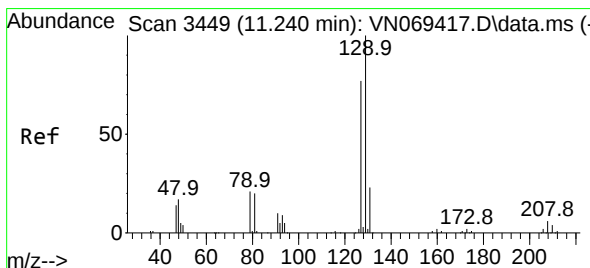
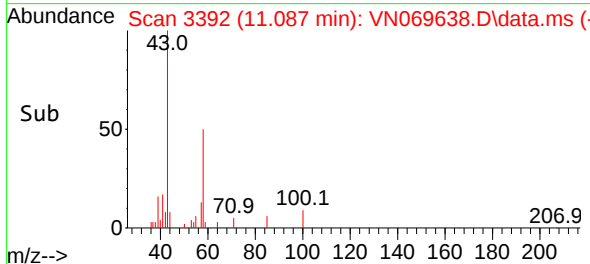
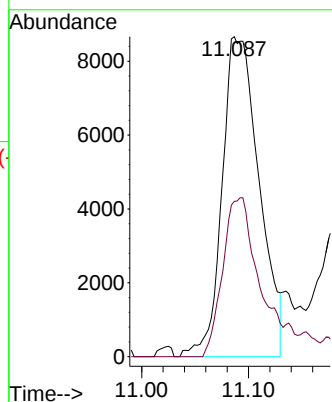
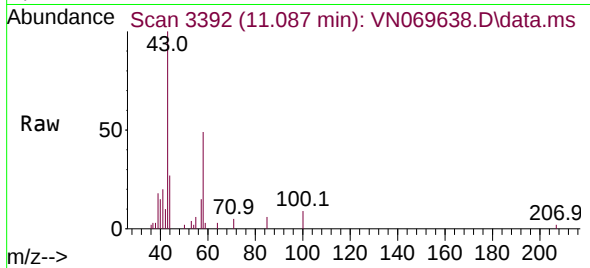




#59
2-Hexanone
Concen: 8.765 ug/l
RT: 11.087 min Scan# 3392
Delta R.T. -0.000 min
Lab File: VN069638.D
Acq: 24 Nov 2021 13:25

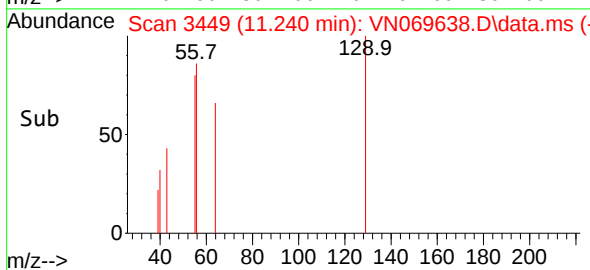
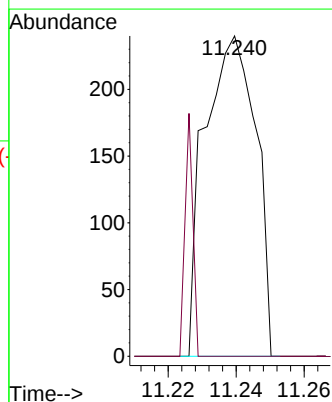
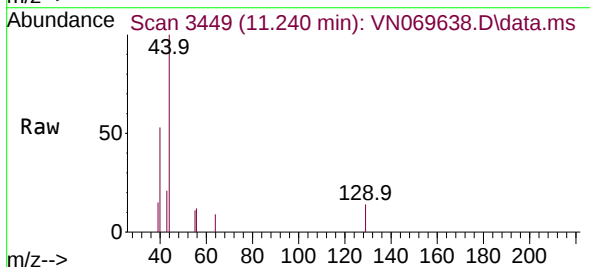
Instrument :
MSVOA_N
ClientSampleId :

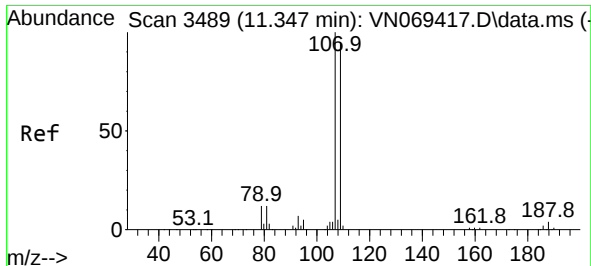
Tgt Ion: 43 Resp: 20891
Ion Ratio Lower Upper
43 100
58 48.0 26.9 80.7



#60
Dibromochloromethane
Concen: 2.431 ug/l
RT: 11.240 min Scan# 3449
Delta R.T. -0.000 min
Lab File: VN069638.D
Acq: 24 Nov 2021 13:25

Tgt Ion: 129 Resp: 250
Ion Ratio Lower Upper
129 100
127 11.6 38.6 116.0#

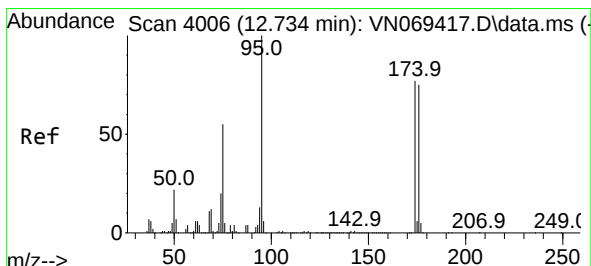
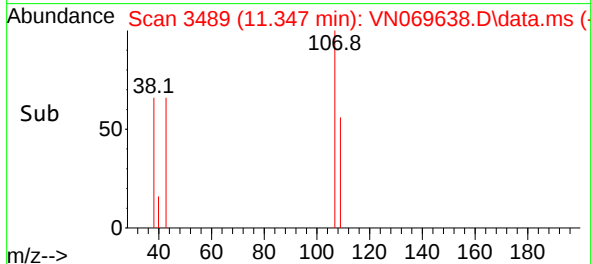
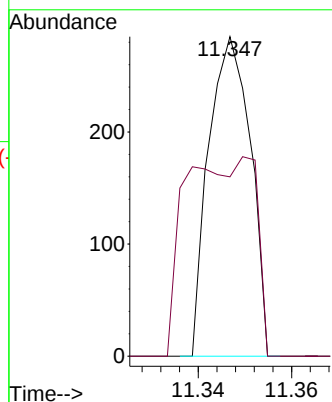
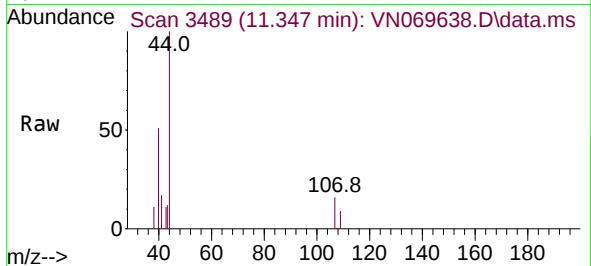




#61
1,2-Dibromoethane
Concen: 1.081 ug/l
RT: 11.347 min Scan# 3489
Delta R.T. -0.000 min
Lab File: VN069638.D
Acq: 24 Nov 2021 13:25

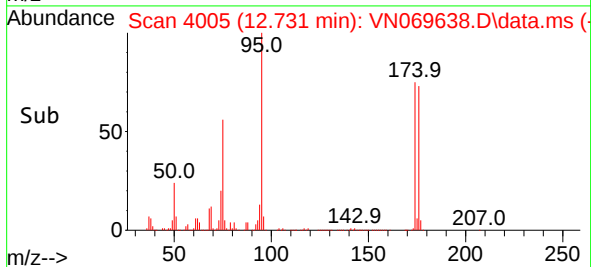
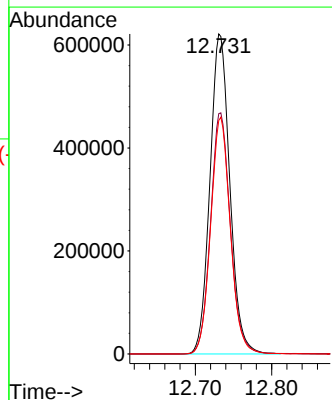
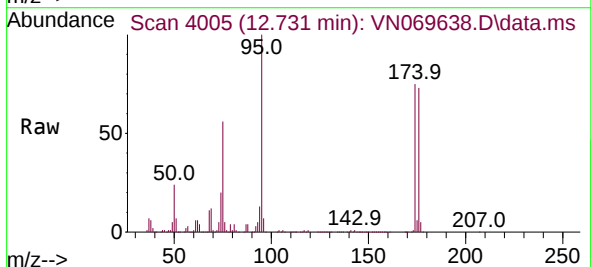
Instrument :
MSVOA_N
ClientSampleId :

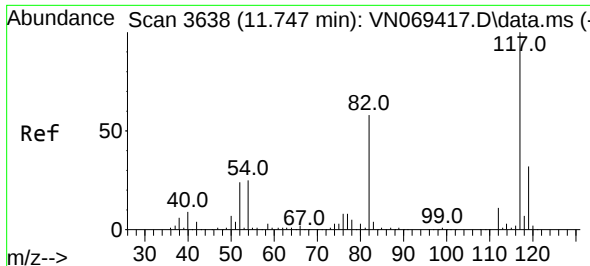
Tgt Ion:107 Resp: 176
Ion Ratio Lower Upper
107 100
109 73.9 75.7 113.5#



#62
4-Bromofluorobenzene
Concen: 52.612 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.003 min
Lab File: VN069638.D
Acq: 24 Nov 2021 13:25

Tgt Ion: 95 Resp: 1125397
Ion Ratio Lower Upper
95 100
174 75.3 0.0 187.2
176 73.1 0.0 181.4

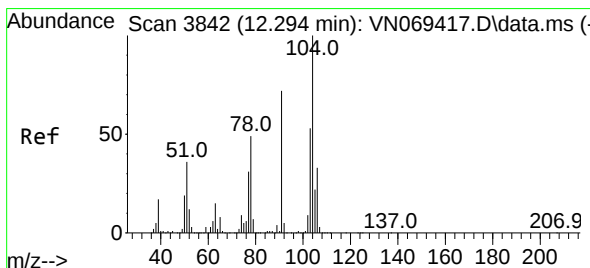
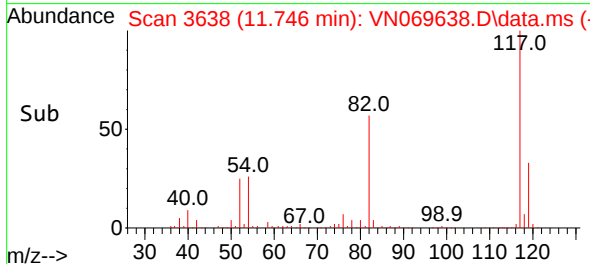
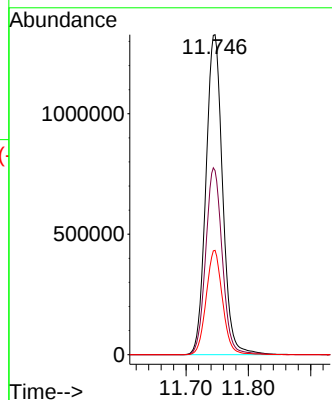
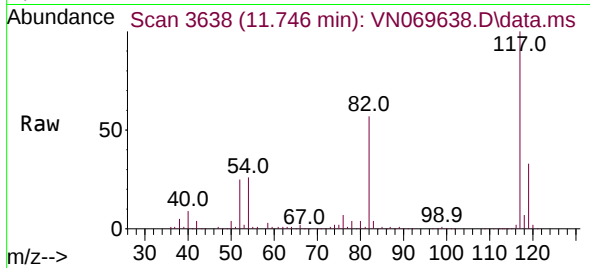




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.746 min Scan# 30
Delta R.T. -0.001 min
Lab File: VN069638.D
Acq: 24 Nov 2021 13:25

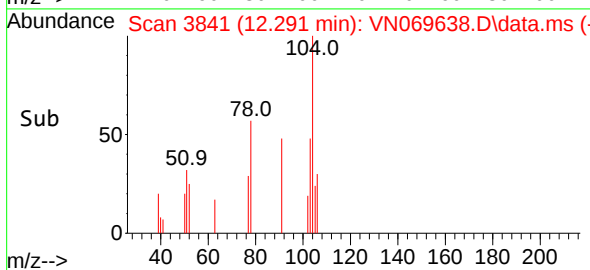
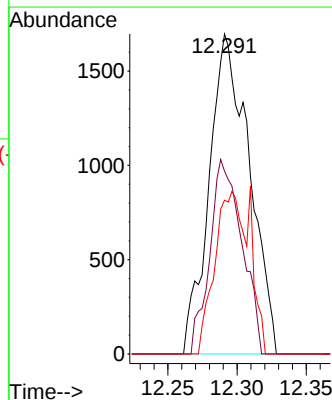
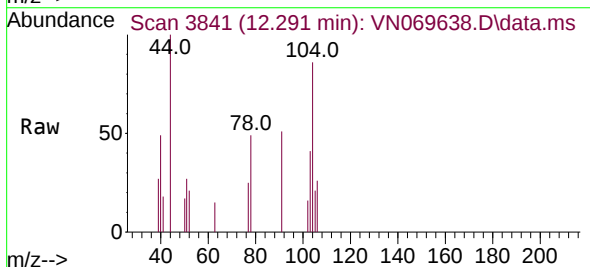
Instrument :
MSVOA_N
ClientSampleId :

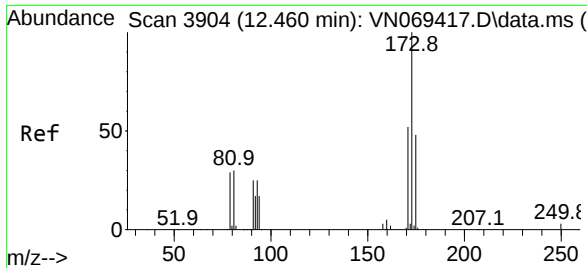
Tgt Ion:117 Resp: 2473352
Ion Ratio Lower Upper
117 100
82 57.5 42.4 63.6
119 32.6 25.4 38.2



#70
Styrene
Concen: 1.580 ug/l
RT: 12.291 min Scan# 3841
Delta R.T. -0.003 min
Lab File: VN069638.D
Acq: 24 Nov 2021 13:25

Tgt Ion:104 Resp: 3427
Ion Ratio Lower Upper
104 100
78 48.5 38.7 58.1
103 0.0 45.0 67.6#





#71

Bromoform

Concen: 3.588 ug/l

RT: 12.731 min Scan# 4005

Delta R.T. 0.271 min

Lab File: VN069638.D

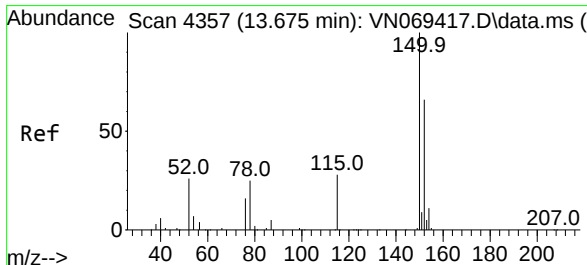
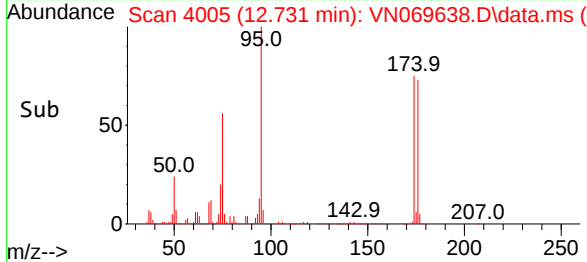
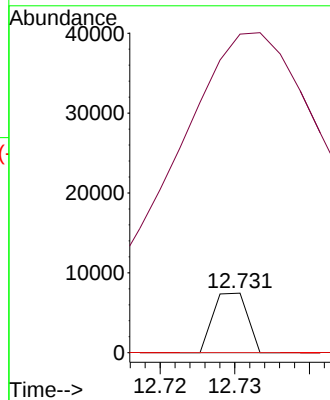
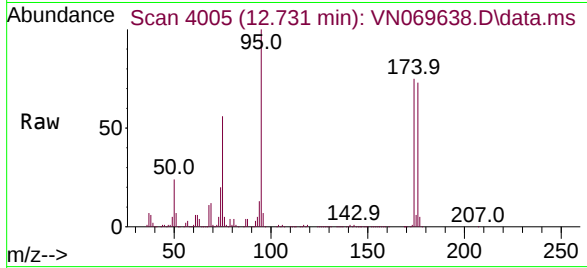
Acq: 24 Nov 2021 13:25

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:173	Resp:	2385
Ion Ratio	Lower	Upper
173	100	
175	2653.1	24.2 72.6#
254	0.0	0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

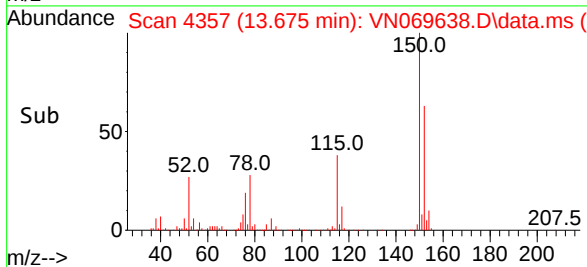
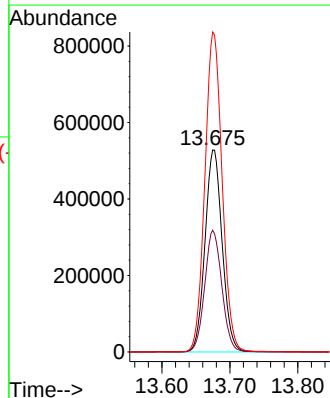
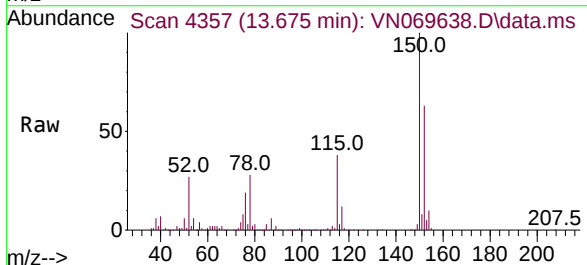
RT: 13.675 min Scan# 4357

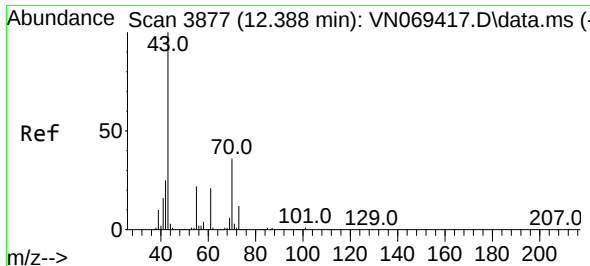
Delta R.T. -0.000 min

Lab File: VN069638.D

Acq: 24 Nov 2021 13:25

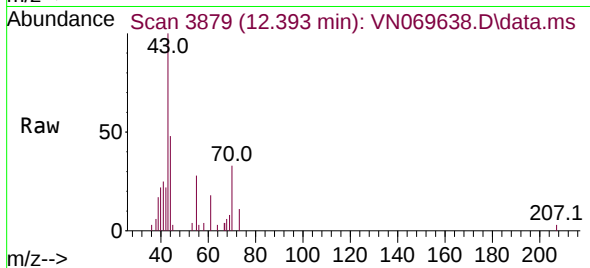
Tgt Ion:152	Resp:	925893
Ion Ratio	Lower	Upper
152	100	
115	59.9	27.5 82.5
150	159.0	0.0 344.4



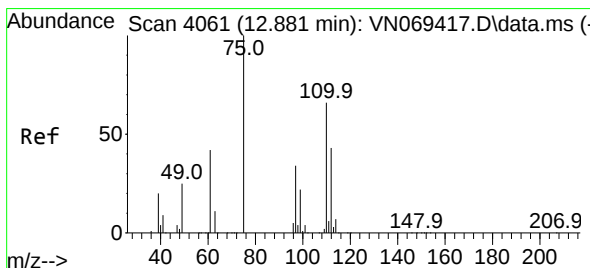
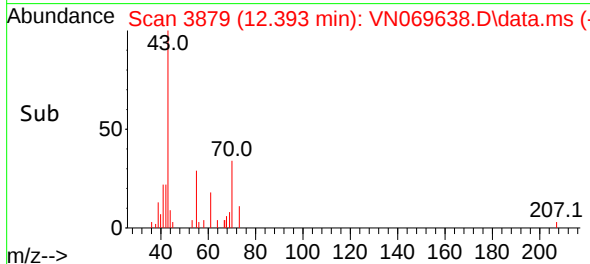
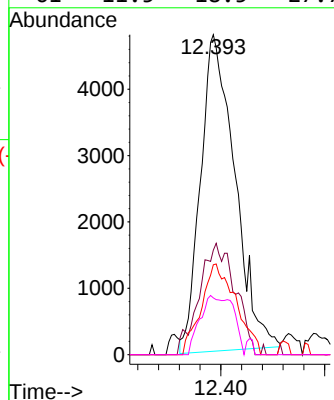


#74
N-amy1 acetate
Concen: 0.349 ug/l
RT: 12.393 min Scan# 30
Delta R.T. 0.005 min
Lab File: VN069638.D
Acq: 24 Nov 2021 13:25

Instrument :
MSVOA_N
ClientSampleId :

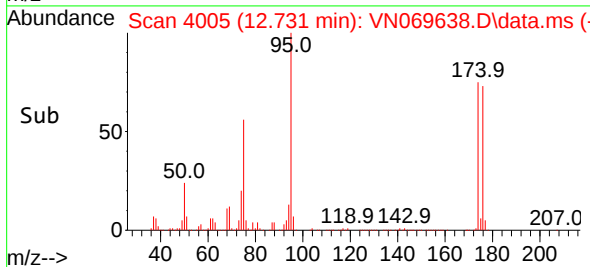
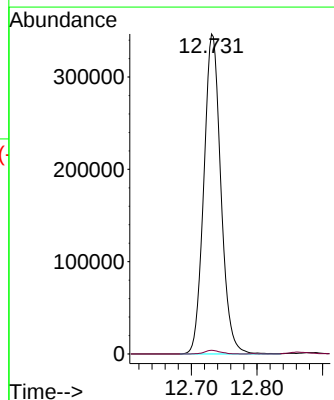
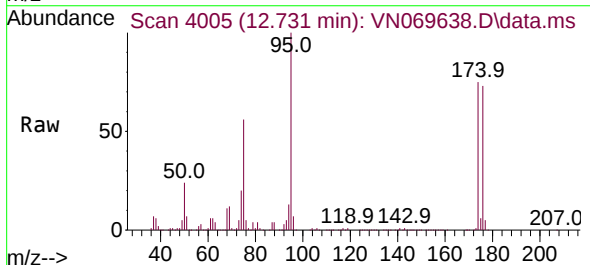


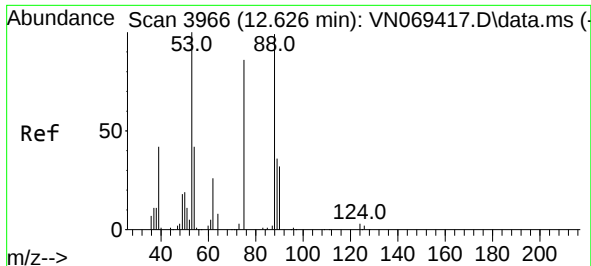
Tgt Ion:	43	Resp:	10911
Ion Ratio	100	Lower	Upper
70	22.8	33.4	50.0#
55	29.1	19.3	28.9#
61	11.5	18.5	27.7#



#76
1,2,3-Trichloropropane
Concen: 29.248 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.150 min
Lab File: VN069638.D
Acq: 24 Nov 2021 13:25

Tgt Ion:	75	Resp:	624954
Ion Ratio	100	Lower	Upper
77	1.1	82.6	247.8#

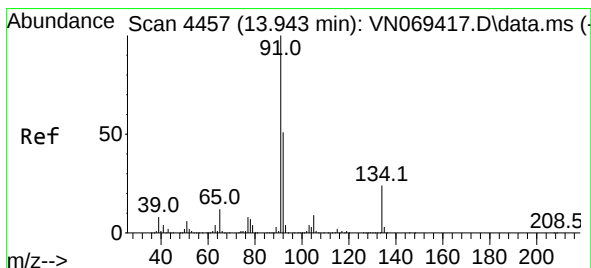
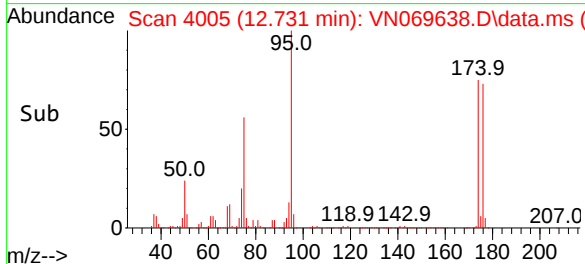
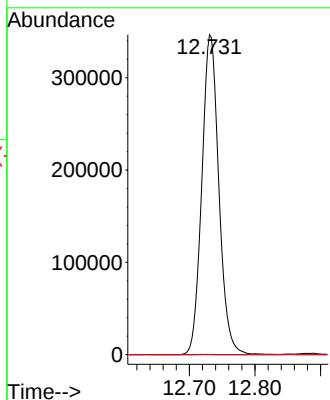
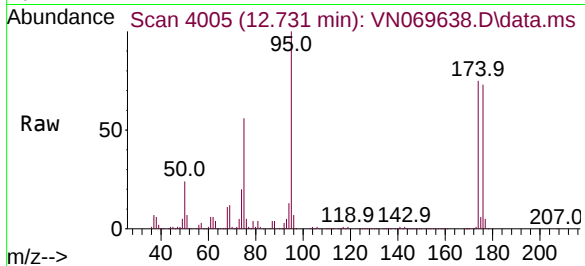




#81
 trans-1,4-Dichloro-2-butene
 Concen: 82.772 ug/l
 RT: 12.731 min Scan# 4005
 Delta R.T. 0.105 min
 Lab File: VN069638.D
 Acq: 24 Nov 2021 13:25

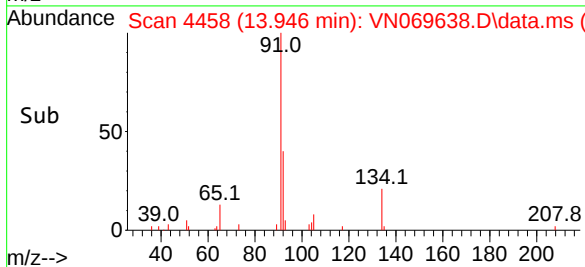
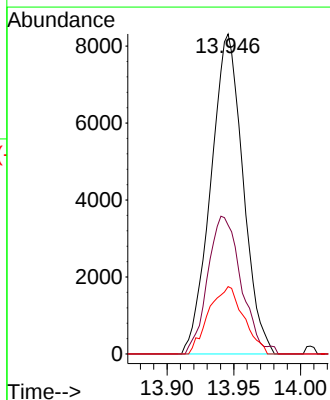
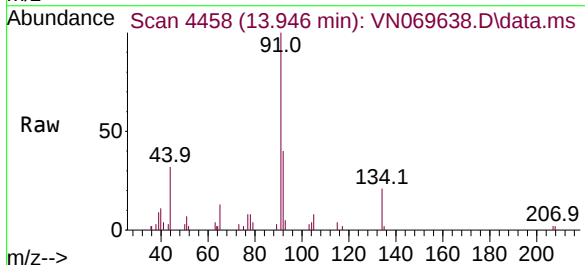
Instrument :
 MSVOA_N
 ClientSampleId :

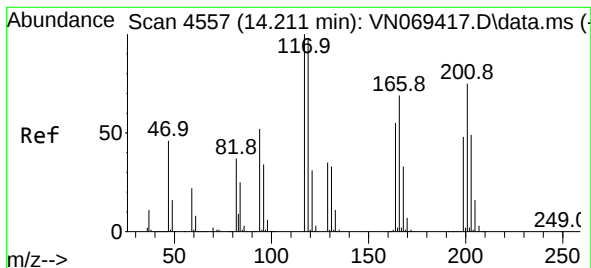
Tgt Ion: 75 Resp: 624954
 Ion Ratio Lower Upper
 75 100
 53 0.0 90.5 135.7#
 89 0.0 38.2 57.4#



#89
 n-Butylbenzene
 Concen: 0.289 ug/l
 RT: 13.946 min Scan# 4458
 Delta R.T. 0.003 min
 Lab File: VN069638.D
 Acq: 24 Nov 2021 13:25

Tgt Ion: 91 Resp: 13950
 Ion Ratio Lower Upper
 91 100
 92 44.8 25.4 76.0
 134 22.8 13.6 40.8





#90

Hexachloroethane

Concen: 2.171 ug/l

RT: 14.211 min Scan# 41

Delta R.T. 0.000 min

Lab File: VN069638.D

Acq: 24 Nov 2021 13:25

Instrument :

MSVOA_N

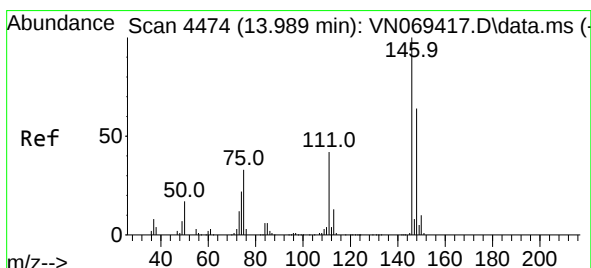
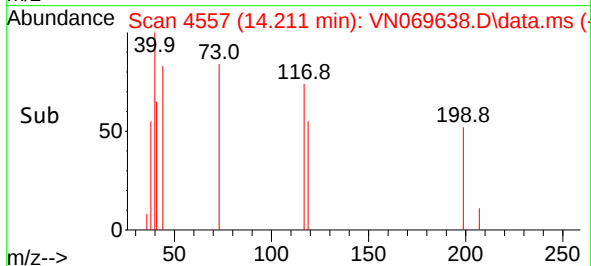
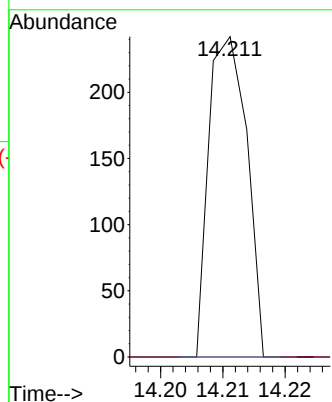
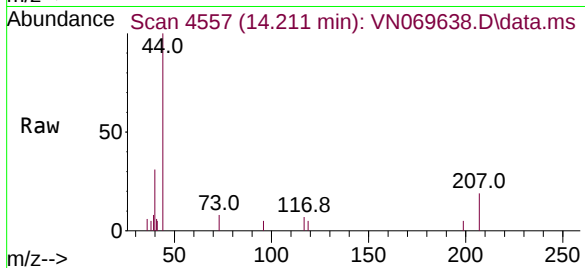
ClientSampleId :

Tgt Ion:117 Resp: 103

Ion Ratio Lower Upper

117 100

201 0.0 43.9 131.6#



#91

1,2-Dichlorobenzene

Concen: 0.238 ug/l

RT: 13.991 min Scan# 4475

Delta R.T. 0.002 min

Lab File: VN069638.D

Acq: 24 Nov 2021 13:25

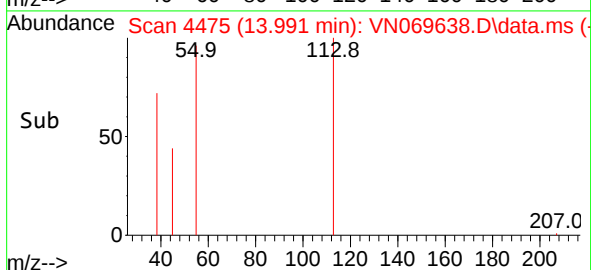
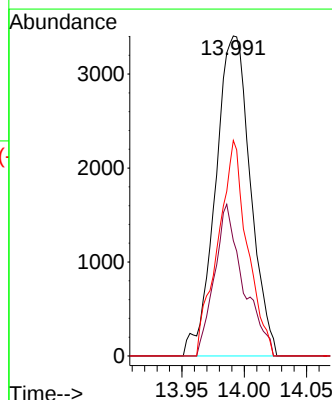
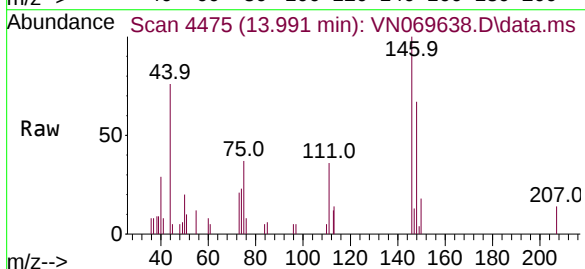
Tgt Ion:146 Resp: 6632

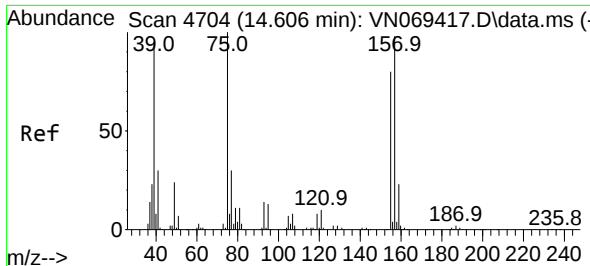
Ion Ratio Lower Upper

146 100

111 39.3 19.1 57.3

148 56.8 32.1 96.3

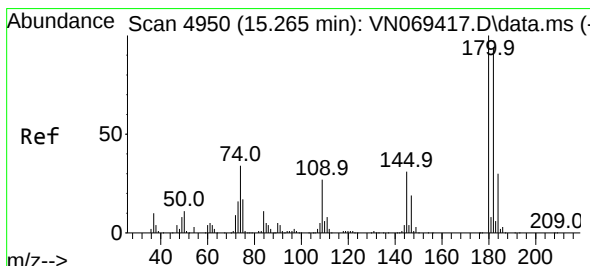
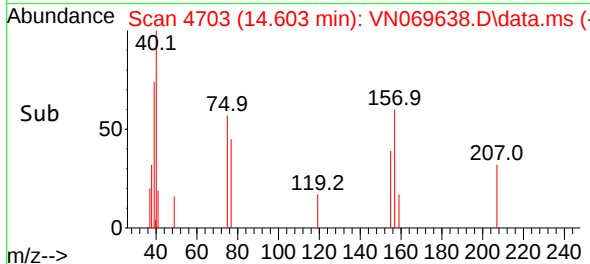
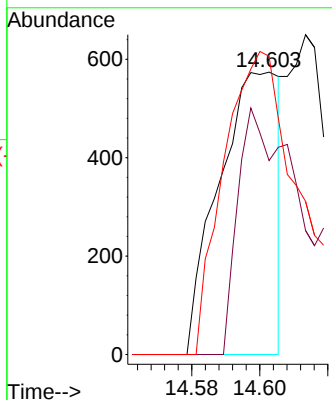
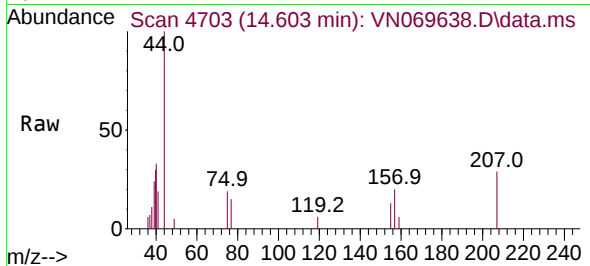




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.943 ug/l
 RT: 14.603 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VN069638.D
 Acq: 24 Nov 2021 13:25

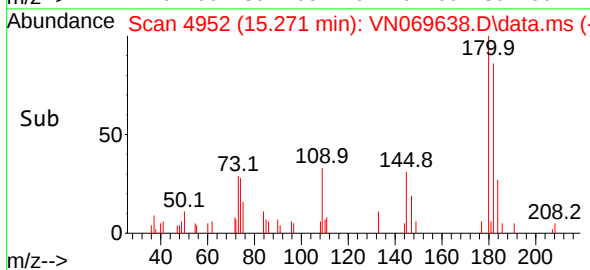
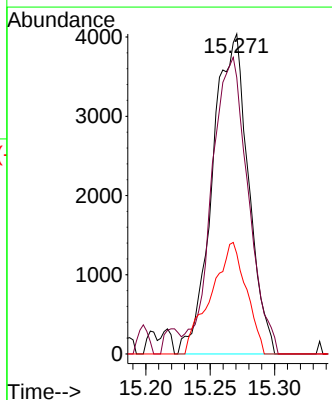
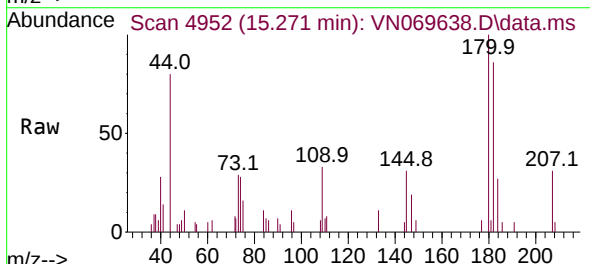
Instrument :
 MSVOA_N
 ClientSampleId :

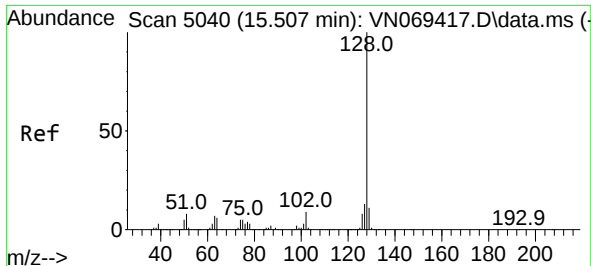
Tgt Ion: 75 Resp: 703
 Ion Ratio Lower Upper
 75 100
 155 94.2 46.9 140.7
 157 133.7 60.6 181.7



#93
 1,2,4-Trichlorobenzene
 Concen: 3.616 ug/l
 RT: 15.271 min Scan# 4952
 Delta R.T. 0.006 min
 Lab File: VN069638.D
 Acq: 24 Nov 2021 13:25

Tgt Ion:180 Resp: 7814
 Ion Ratio Lower Upper
 180 100
 182 94.0 48.3 144.9
 145 34.2 14.5 43.5

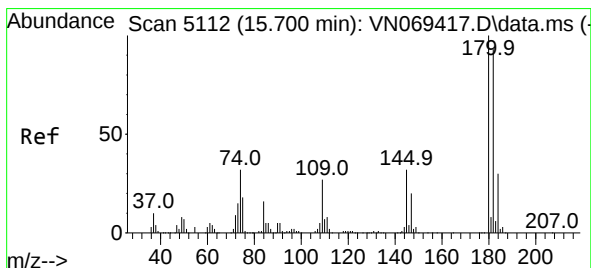
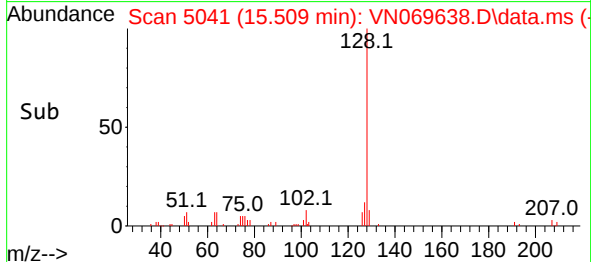
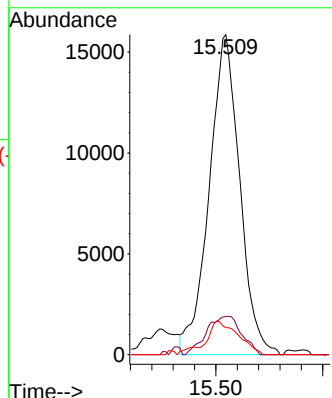
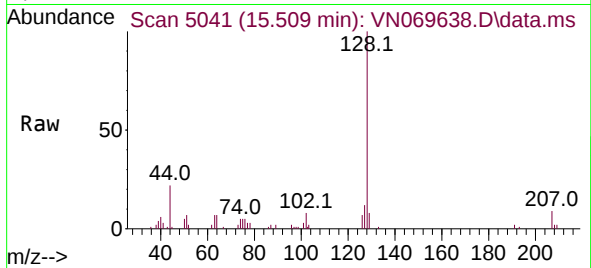




#95
Naphthalene
Concen: 5.150 ug/l
RT: 15.509 min Scan# 5040
Delta R.T. 0.002 min
Lab File: VN069638.D
Acq: 24 Nov 2021 13:25

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:128 Resp: 31522
Ion Ratio Lower Upper
128 100
127 13.8 10.5 15.7
129 9.9 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 3.855 ug/l
RT: 15.705 min Scan# 5114
Delta R.T. 0.005 min
Lab File: VN069638.D
Acq: 24 Nov 2021 13:25

Tgt Ion:180 Resp: 10201
Ion Ratio Lower Upper
180 100
182 86.3 47.4 142.2
145 33.6 15.0 45.1

