

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102921\
 Data File : VN069308.D
 Acq On : 29 Oct 2021 18:13
 Operator : JC/MD
 Sample : PB140327ZHE#04
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 30 05:45:02 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102821W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 28 16:09:15 2021
 Response via : Initial Calibration

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

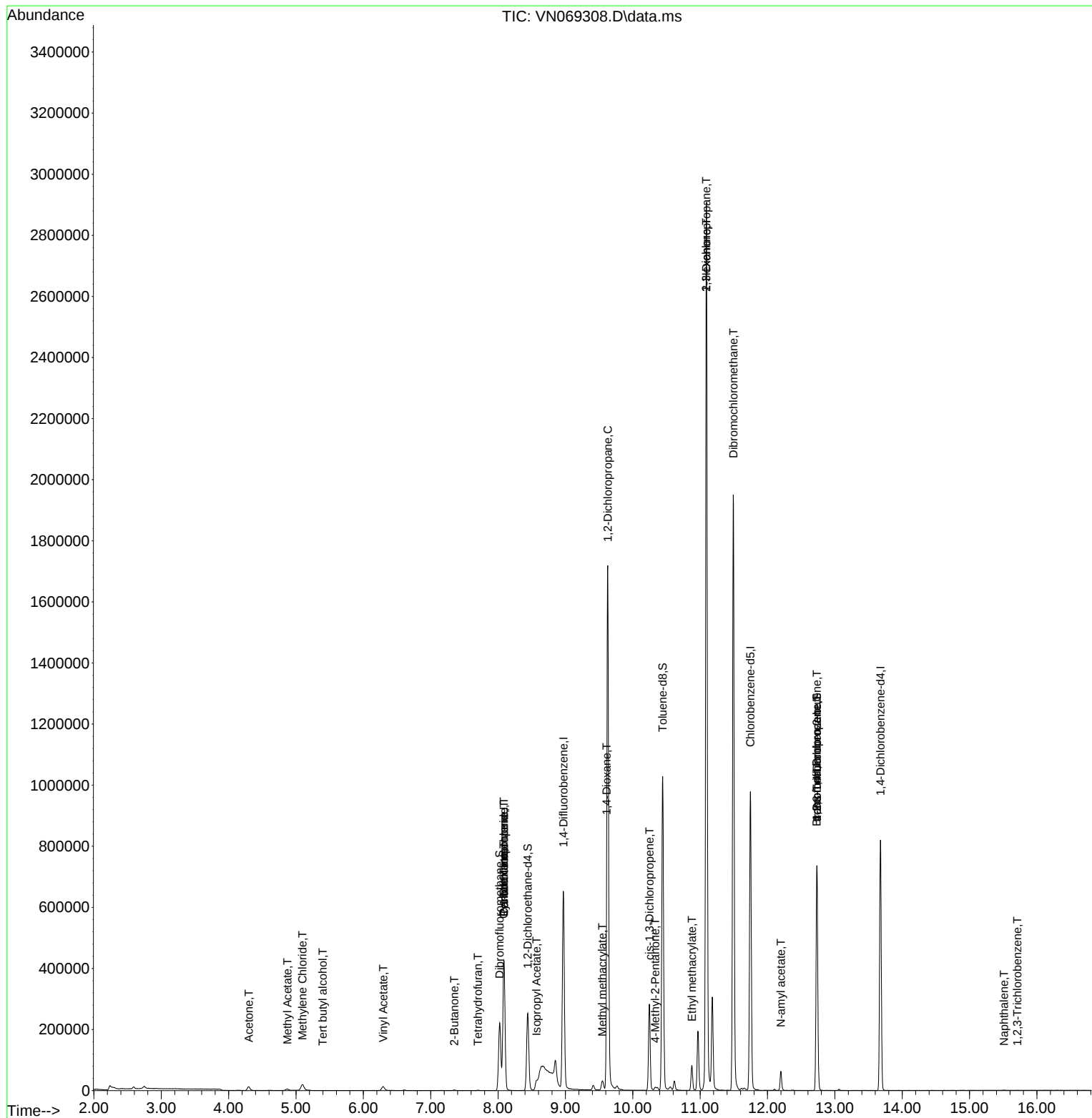
Internal Standards						
1) Pentafluorobenzene	8.088	168	315317	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.971	114	573123	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.747	117	574274	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	221043	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	216711	47.611	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	95.220%
35) Dibromofluoromethane	8.024	113	162976	45.618	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	91.240%
50) Toluene-d8	10.443	98	718600	50.306	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	100.620%
62) 4-Bromofluorobenzene	12.734	95	261732	48.556	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	97.120%
Target Compounds						
					Qvalue	
3) Chloromethane	2.306	50	578	Below Cal	#	42
11) Tert butyl alcohol	5.396	59	50	13.461	ug/l #	72
16) Acetone	4.299	43	23518	12.127	ug/l	98
18) Methyl Acetate	4.873	43	9813	1.489	ug/l	96
20) Methylene Chloride	5.095	84	15302	4.114	ug/l	97
23) Vinyl Acetate	6.294	43	84	6.598	ug/l #	72
25) 2-Butanone	7.351	43	3639	2.850	ug/l	93
29) Tetrahydrofuran	7.702	42	1116	3.514	ug/l #	51
31) Cyclohexane	8.083	56	7745	1.271	ug/l #	20
36) 1,1-Dichloropropene	8.086	75	26186	5.300	ug/l #	50
38) Carbon Tetrachloride	8.088	117	33395	6.832	ug/l #	16
43) Isopropyl Acetate	8.571	43	34308	3.921	ug/l #	89
45) 1,2-Dichloropropane	9.630	63	2029	0.536	ug/l #	43
48) Methyl methacrylate	9.547	41	8724	2.053	ug/l #	13
49) 1,4-Dioxane	9.612	88	82	35.625	ug/l #	23
51) 4-Methyl-2-Pentanone	10.336	43	5341	7.217	ug/l	94
54) cis-1,3-Dichloropropene	10.247	75	51335	8.869	ug/l #	65
56) Ethyl methacrylate	10.878	69	308	1.725	ug/l #	1
57) 1,3-Dichloropropane	11.092	76	31408	4.815	ug/l #	42
59) 2-Hexanone	11.092	43	440285	95.204	ug/l #	51
60) Dibromochloromethane	11.494	129	149	2.007	ug/l #	10
71) Bromoform	12.731	173	932	3.120	ug/l #	1
74) N-amyl acetate	12.197	43	19531	2.668	ug/l #	54
76) 1,2,3-Trichloropropane	12.734	75	139735	24.036	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.734	75	139735	69.006	ug/l #	12
95) Naphthalene	15.509	128	1090	3.400	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.708	180	94	2.232	ug/l #	53

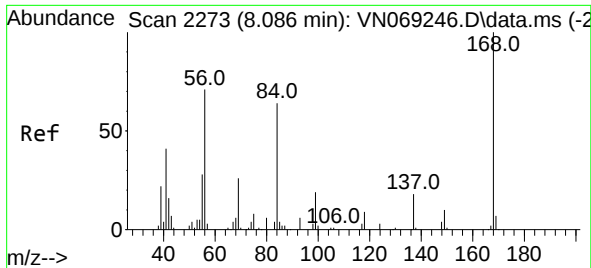
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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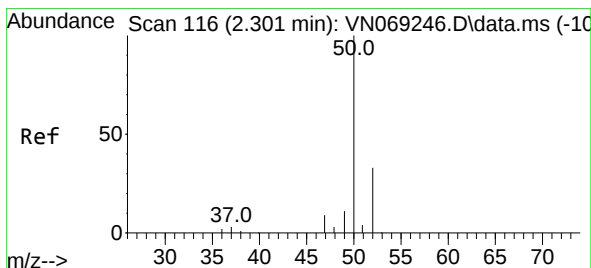
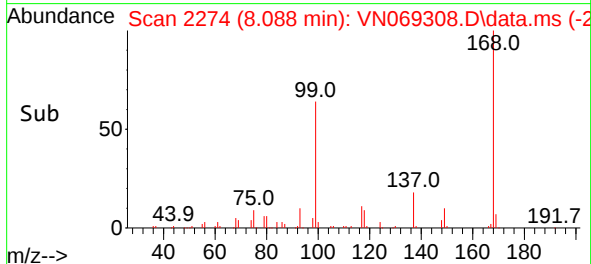
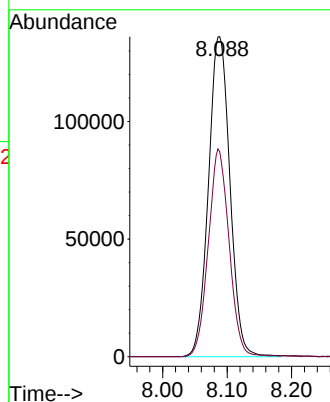
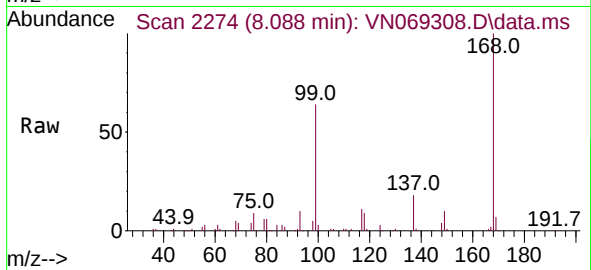




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 21
Delta R.T. 0.002 min
Lab File: VN069308.D
Acq: 29 Oct 2021 18:13

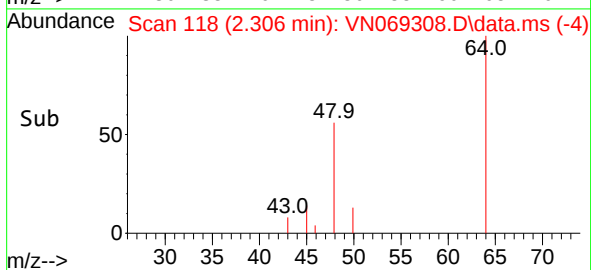
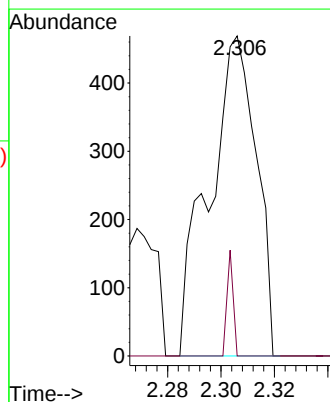
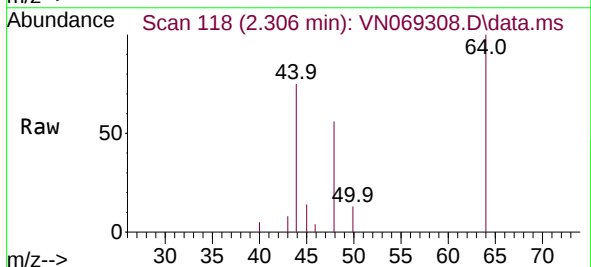
Instrument :
MSVOA_N
ClientSampleId :

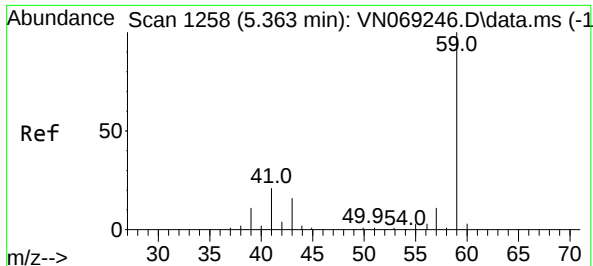
Tgt Ion:168 Resp: 315317
Ion Ratio Lower Upper
168 100
99 64.1 48.9 73.3



#3
Chloromethane
Concen: Below Cal
RT: 2.306 min Scan# 118
Delta R.T. 0.005 min
Lab File: VN069308.D
Acq: 29 Oct 2021 18:13

Tgt Ion: 50 Resp: 578
Ion Ratio Lower Upper
50 100
52 0.0 26.3 39.5#





#11

Tert butyl alcohol

Concen: 13.461 ug/l

RT: 5.396 min Scan# 11

Delta R.T. 0.033 min

Lab File: VN069308.D

Acq: 29 Oct 2021 18:13

Instrument :

MSVOA_N

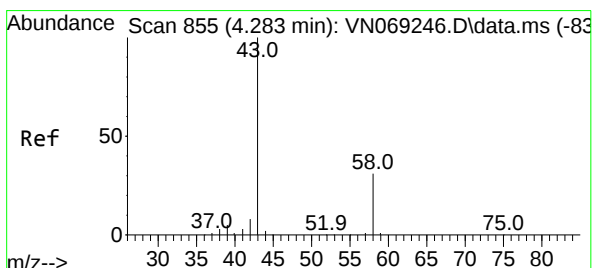
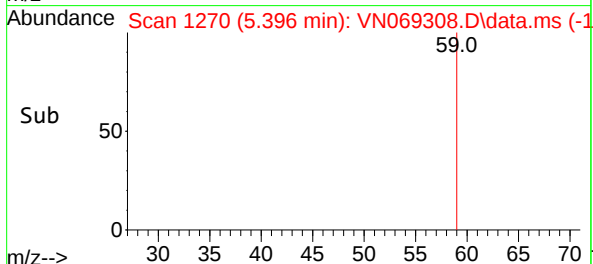
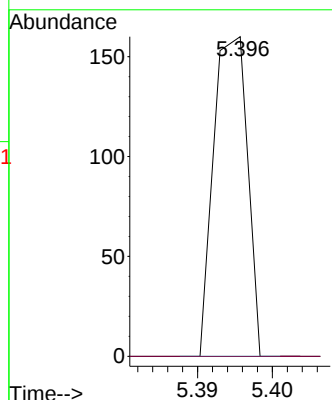
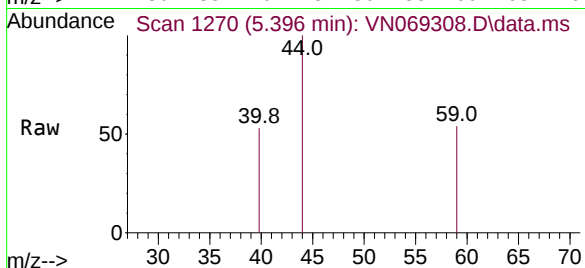
ClientSampleId :

Tgt Ion: 59 Resp: 50

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



#16

Acetone

Concen: 12.127 ug/l

RT: 4.299 min Scan# 861

Delta R.T. 0.016 min

Lab File: VN069308.D

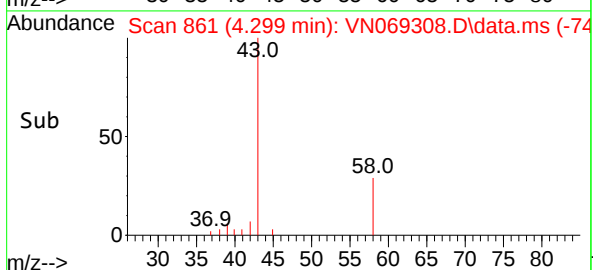
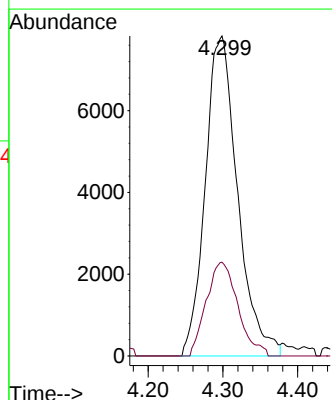
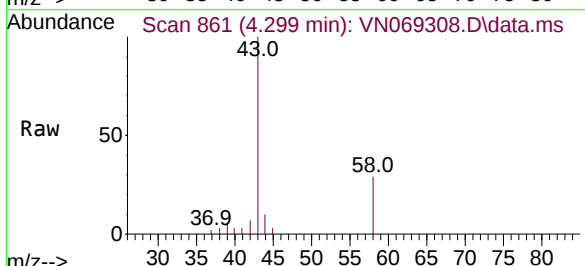
Acq: 29 Oct 2021 18:13

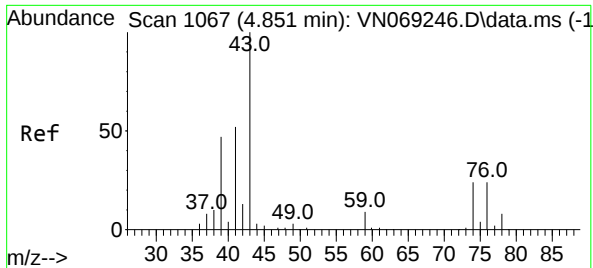
Tgt Ion: 43 Resp: 23518

Ion Ratio Lower Upper

43 100

58 29.3 24.5 36.7

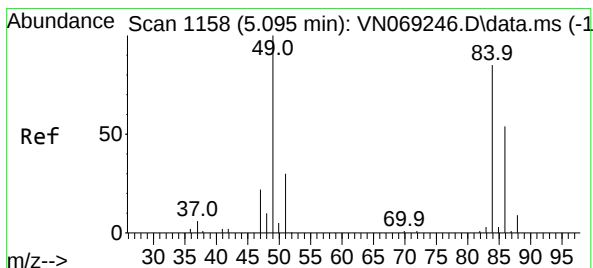
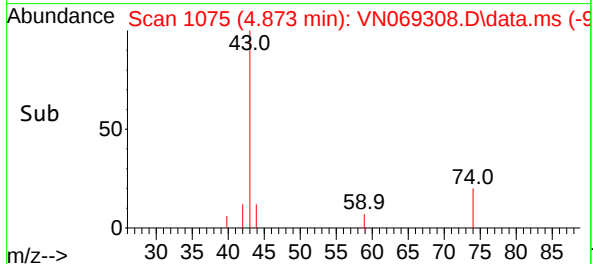
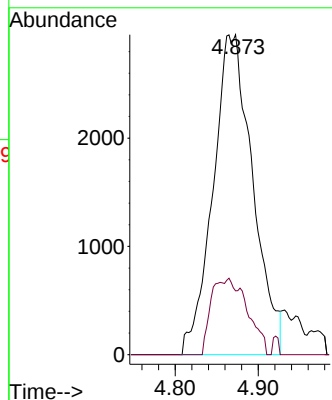
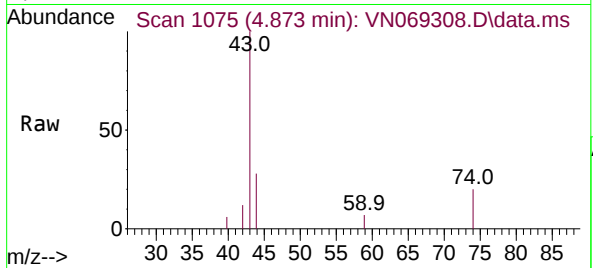




#18
Methyl Acetate
Concen: 1.489 ug/l
RT: 4.873 min Scan# 1067
Delta R.T. 0.022 min
Lab File: VN069308.D
Acq: 29 Oct 2021 18:13

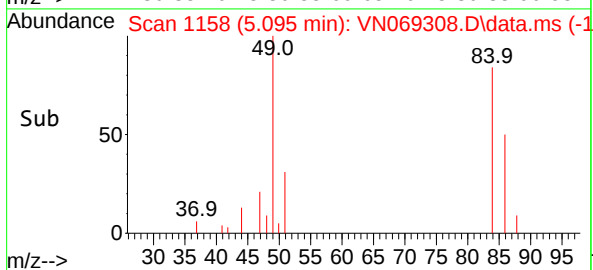
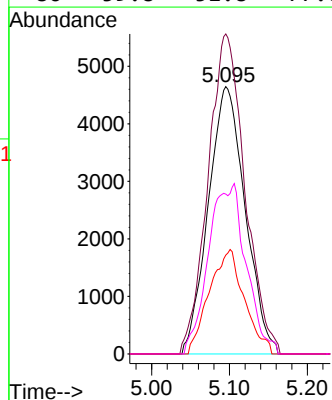
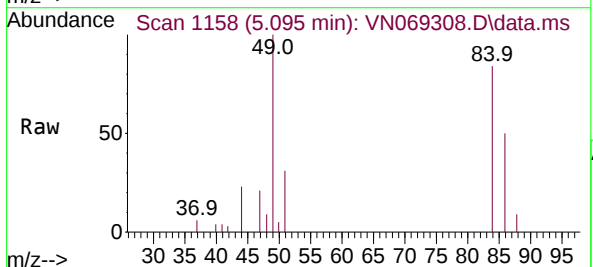
Instrument :
MSVOA_N
ClientSampleId :

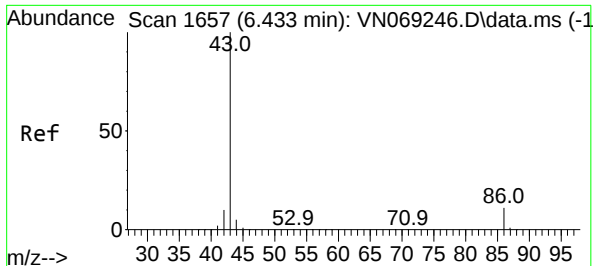
Tgt Ion: 43 Resp: 9813
Ion Ratio Lower Upper
43 100
74 21.7 18.9 28.3



#20
Methylene Chloride
Concen: 4.114 ug/l
RT: 5.095 min Scan# 1158
Delta R.T. 0.000 min
Lab File: VN069308.D
Acq: 29 Oct 2021 18:13

Tgt Ion: 84 Resp: 15302
Ion Ratio Lower Upper
84 100
49 119.7 97.6 146.4
51 37.0 30.3 45.5
86 59.8 51.8 77.6

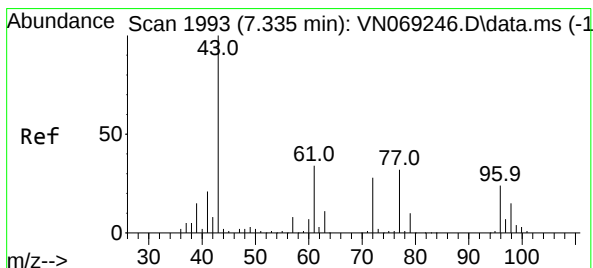
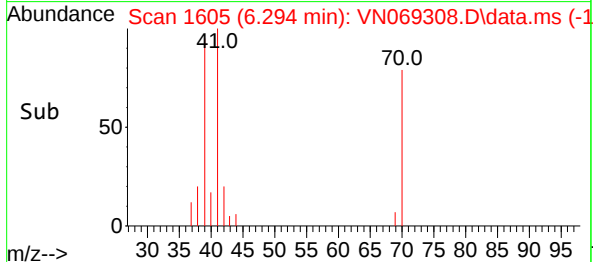
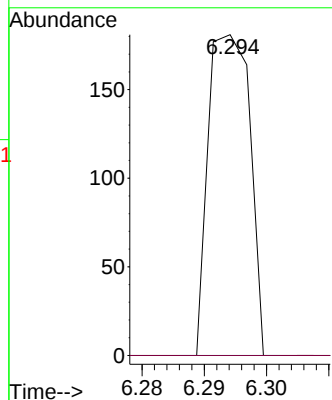
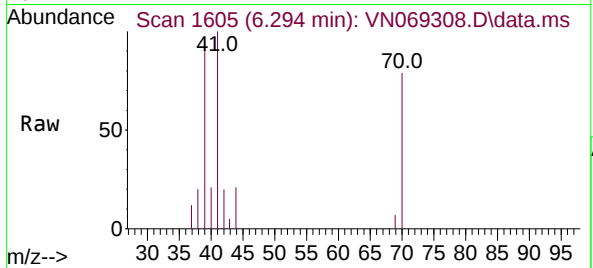




#23
 Vinyl Acetate
 Concen: 6.598 ug/l
 RT: 6.294 min Scan# 1605
 Delta R.T. -0.139 min
 Lab File: VN069308.D
 Acq: 29 Oct 2021 18:13

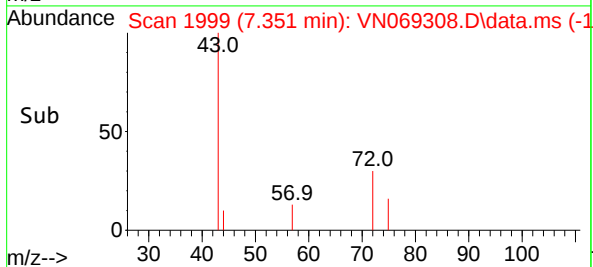
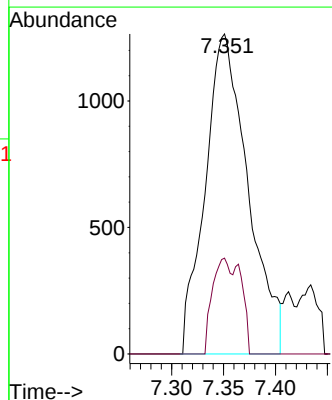
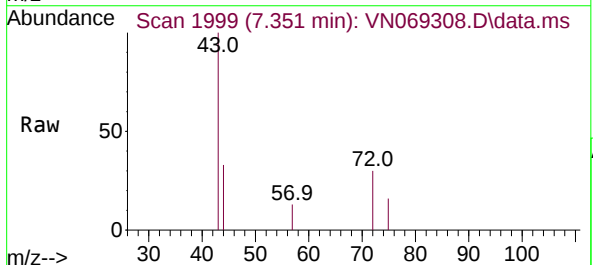
Instrument :
 MSVOA_N
 ClientSampleId :

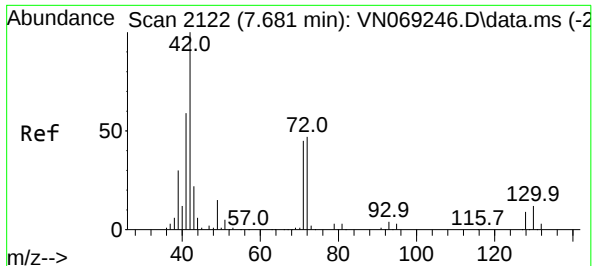
Tgt Ion: 43 Resp: 84
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.3 12.5#



#25
 2-Butanone
 Concen: 2.850 ug/l
 RT: 7.351 min Scan# 1999
 Delta R.T. 0.016 min
 Lab File: VN069308.D
 Acq: 29 Oct 2021 18:13

Tgt Ion: 43 Resp: 3639
 Ion Ratio Lower Upper
 43 100
 72 30.0 21.2 31.8





#29

Tetrahydrofuran

Concen: 3.514 ug/l

RT: 7.702 min Scan# 21

Delta R.T. 0.021 min

Lab File: VN069308.D

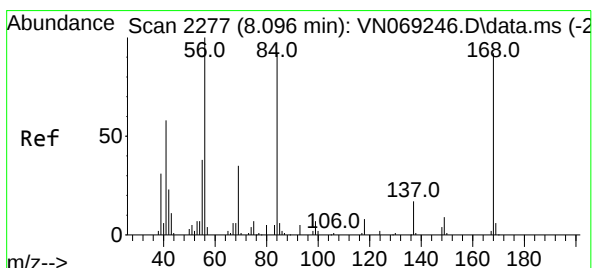
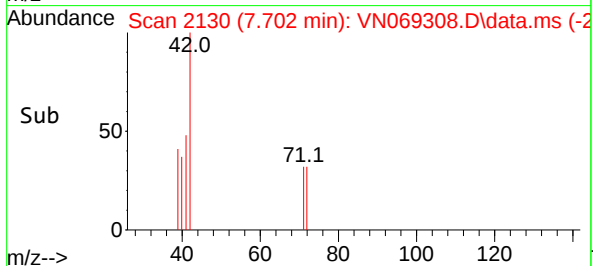
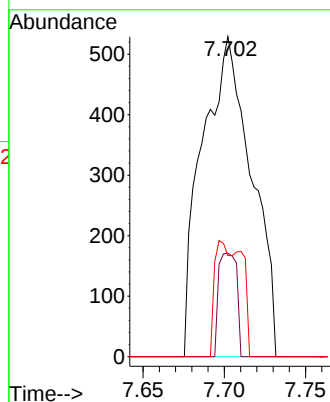
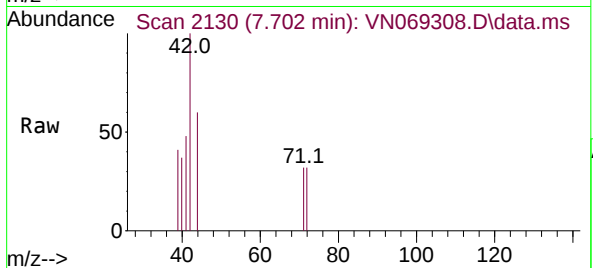
Acq: 29 Oct 2021 18:13

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion: 42	Resp: 1116
Ion Ratio	Lower Upper
42	100
72	11.7 35.4 53.2#
71	12.5 33.8 50.6#



#31

Cyclohexane

Concen: 1.271 ug/l

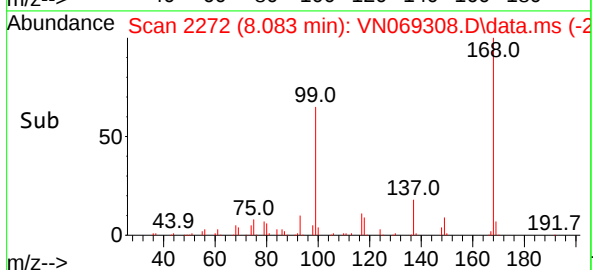
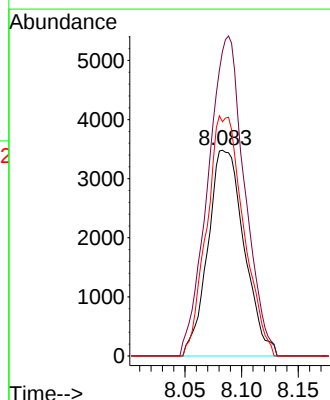
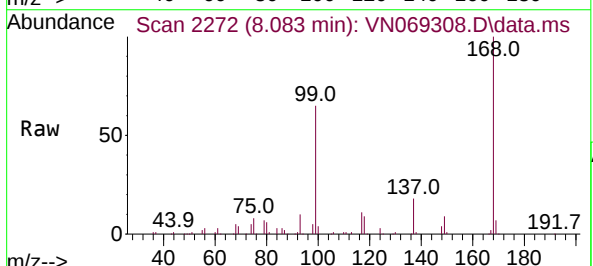
RT: 8.083 min Scan# 2272

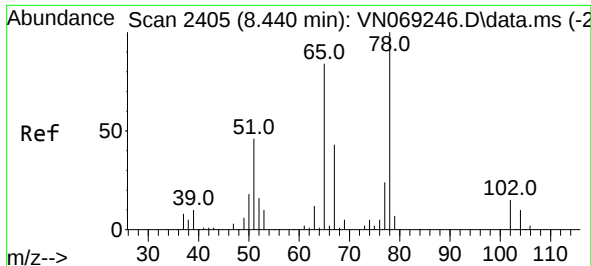
Delta R.T. -0.013 min

Lab File: VN069308.D

Acq: 29 Oct 2021 18:13

Tgt Ion: 56	Resp: 7745
Ion Ratio	Lower Upper
56	100
69	148.1 26.9 40.3#
84	113.8 67.6 101.4#





#33

1,2-Dichloroethane-d4

Concen: 47.611 ug/l

RT: 8.440 min Scan# 2405

Delta R.T. -0.000 min

Lab File: VN069308.D

Acq: 29 Oct 2021 18:13

Instrument :

MSVOA_N

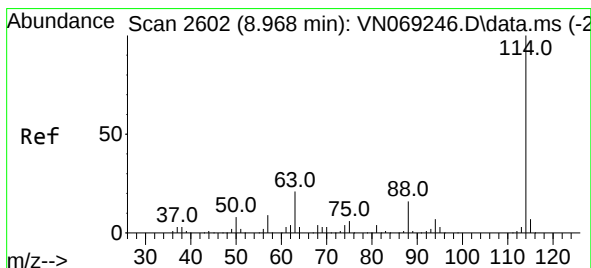
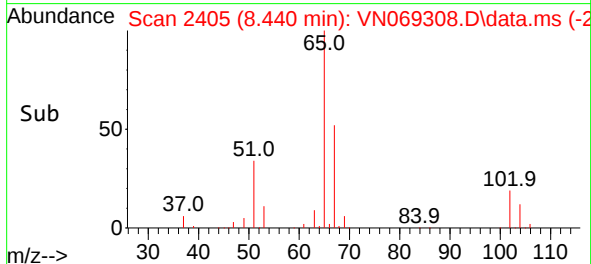
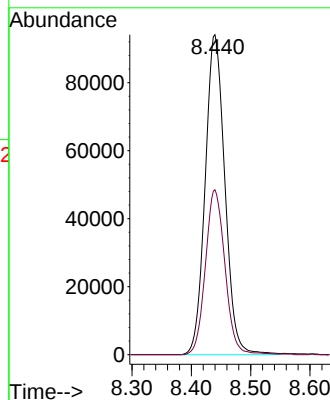
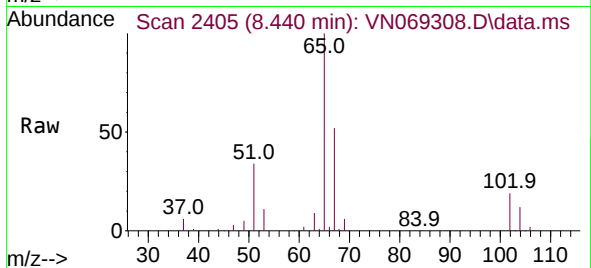
ClientSampleId :

Tgt Ion: 65 Resp: 216711

Ion Ratio Lower Upper

65 100

67 51.2 0.0 103.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.971 min Scan# 2603

Delta R.T. 0.003 min

Lab File: VN069308.D

Acq: 29 Oct 2021 18:13

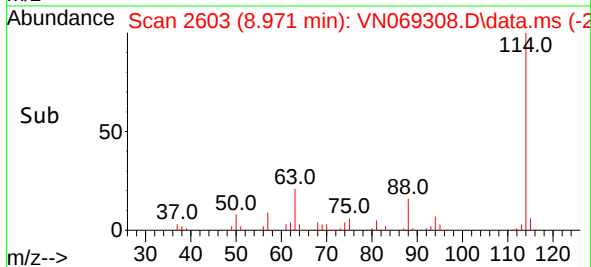
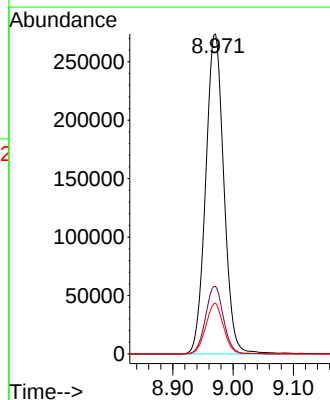
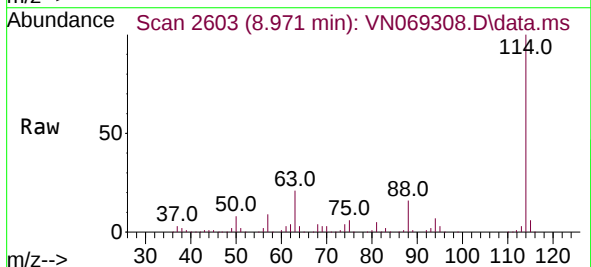
Tgt Ion: 114 Resp: 573123

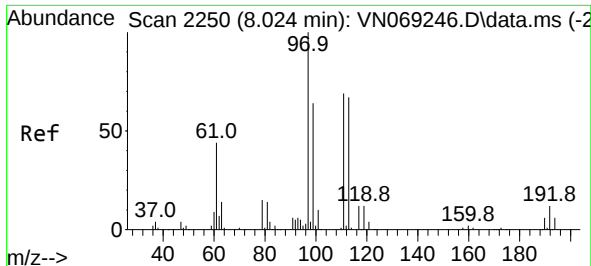
Ion Ratio Lower Upper

114 100

63 21.1 0.0 42.6

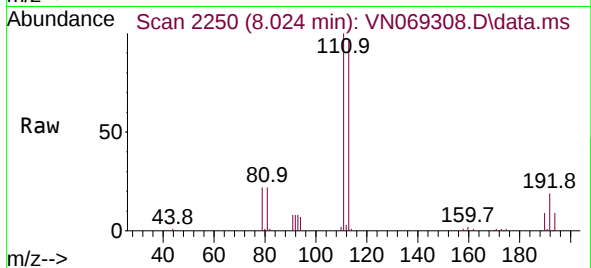
88 15.9 0.0 32.0



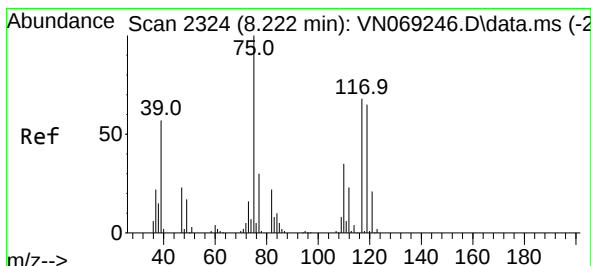
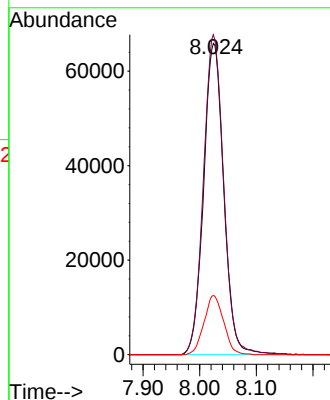
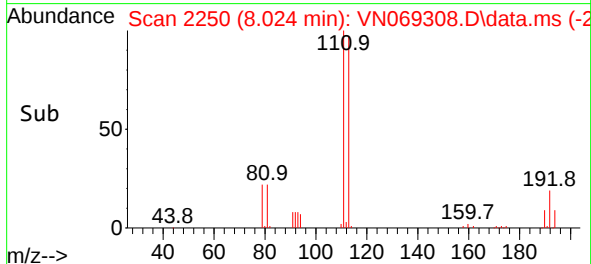


#35
Dibromofluoromethane
Concen: 45.618 ug/l
RT: 8.024 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN069308.D
Acq: 29 Oct 2021 18:13

Instrument :
MSVOA_N
ClientSampleId :

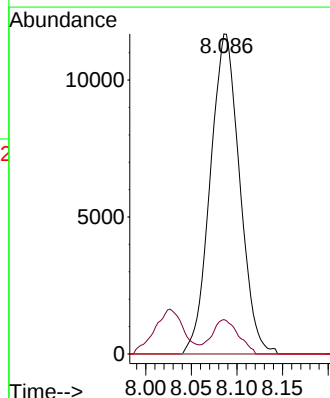
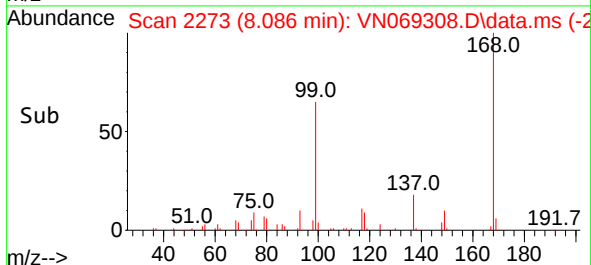
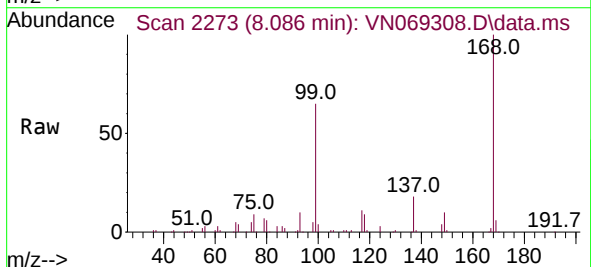


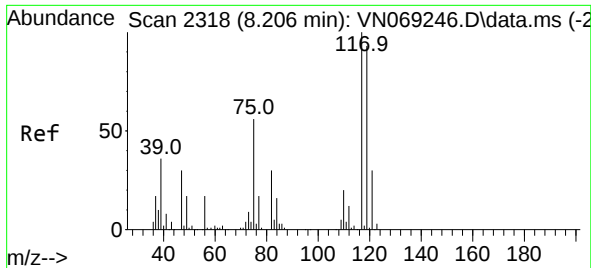
Tgt Ion:113 Resp: 162976
Ion Ratio Lower Upper
113 100
111 102.9 83.2 124.8
192 18.5 15.0 22.4



#36
1,1-Dichloropropene
Concen: 5.300 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.136 min
Lab File: VN069308.D
Acq: 29 Oct 2021 18:13

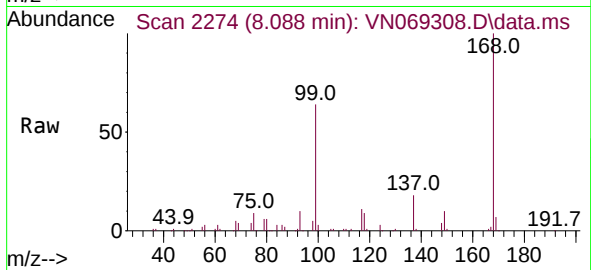
Tgt Ion: 75 Resp: 26186
Ion Ratio Lower Upper
75 100
110 9.8 17.9 53.8#
77 0.0 24.7 37.1#



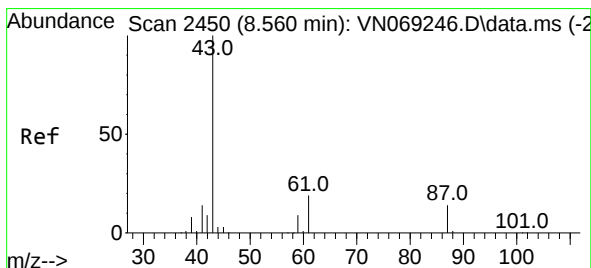
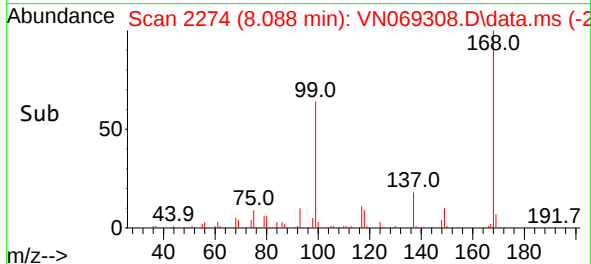
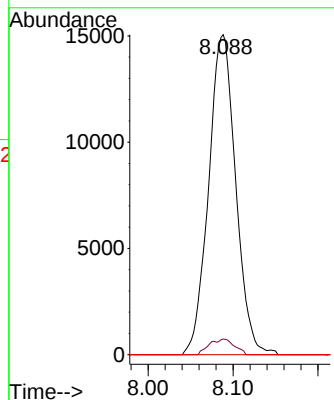


#38
Carbon Tetrachloride
Concen: 6.832 ug/l
RT: 8.088 min Scan# 211
Delta R.T. -0.118 min
Lab File: VN069308.D
Acq: 29 Oct 2021 18:13

Instrument :
MSVOA_N
ClientSampleId :

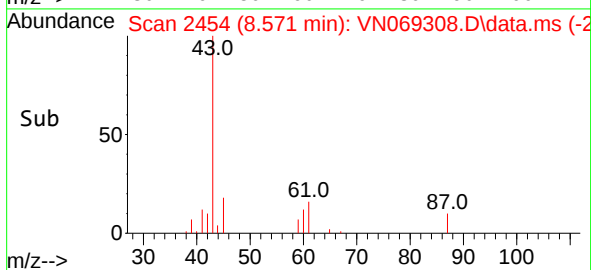
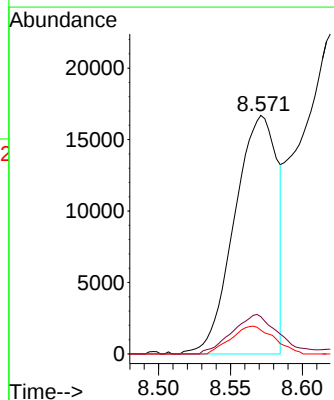
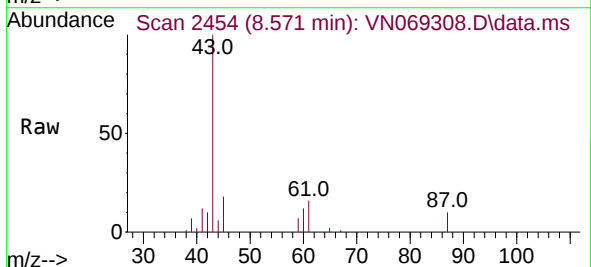


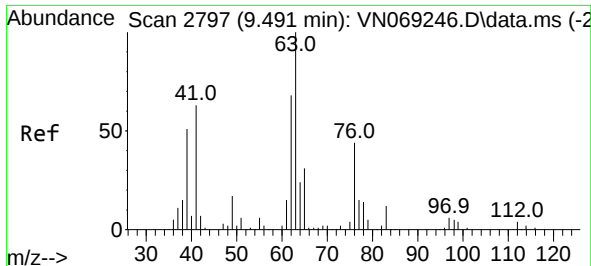
Tgt Ion:117 Resp: 33395
Ion Ratio Lower Upper
117 100
119 4.9 76.9 115.3#
121 0.0 24.6 37.0#



#43
Isopropyl Acetate
Concen: 3.921 ug/l
RT: 8.571 min Scan# 2454
Delta R.T. 0.011 min
Lab File: VN069308.D
Acq: 29 Oct 2021 18:13

Tgt Ion: 43 Resp: 34308
Ion Ratio Lower Upper
43 100
61 18.0 20.4 30.6#
87 11.7 10.7 16.1





#45

1,2-Dichloropropane

Concen: 0.536 ug/l

RT: 9.630 min Scan# 21

Delta R.T. 0.139 min

Lab File: VN069308.D

Acq: 29 Oct 2021 18:13

Instrument :

MSVOA_N

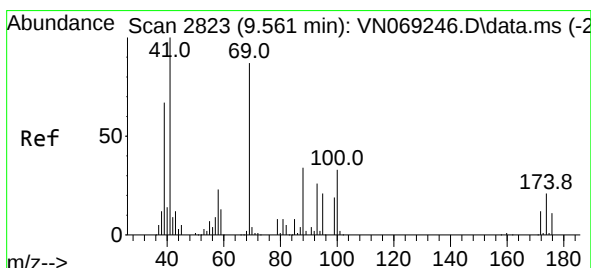
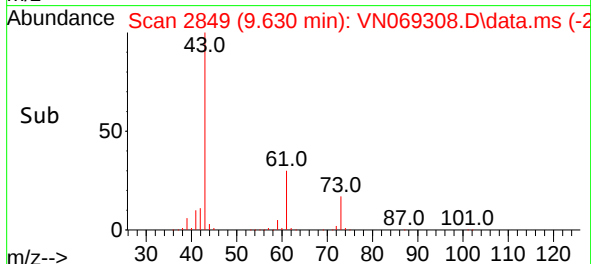
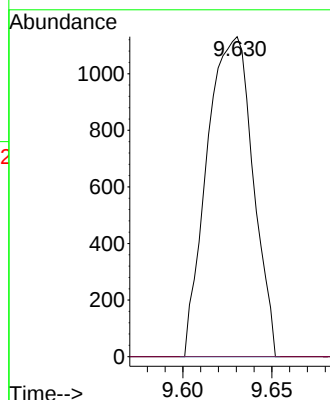
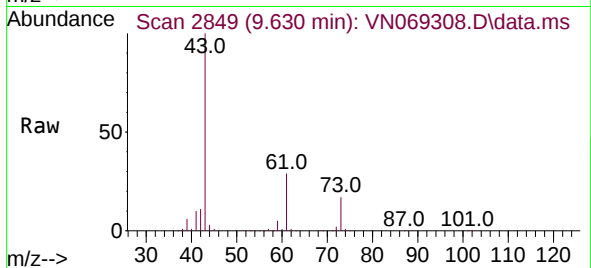
ClientSampleId :

Tgt Ion: 63 Resp: 2029

Ion Ratio Lower Upper

63 100

65 0.0 25.6 38.4#



#48

Methyl methacrylate

Concen: 2.053 ug/l

RT: 9.547 min Scan# 2818

Delta R.T. -0.014 min

Lab File: VN069308.D

Acq: 29 Oct 2021 18:13

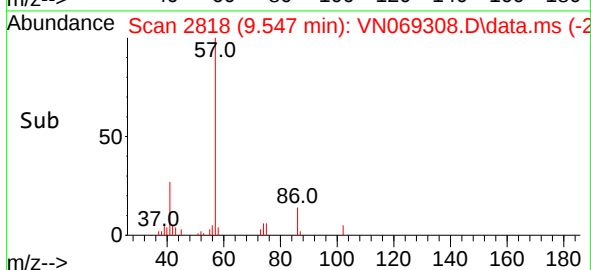
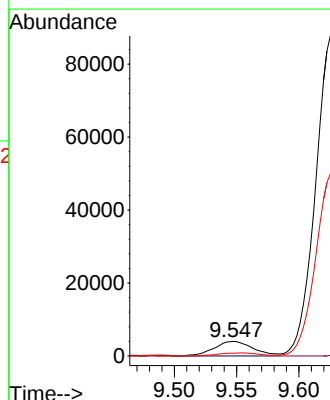
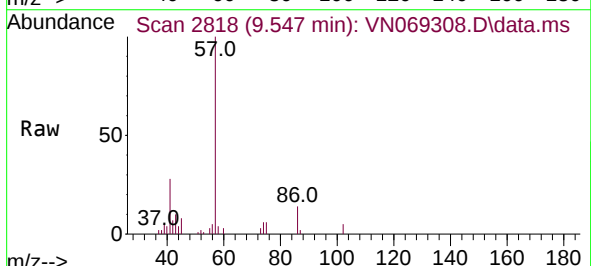
Tgt Ion: 41 Resp: 8724

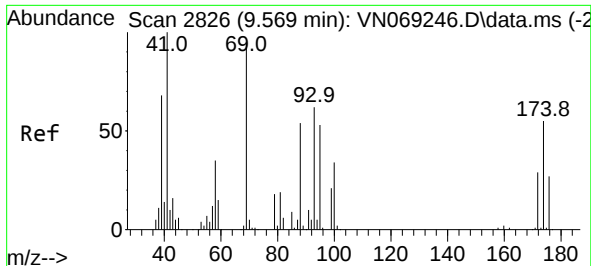
Ion Ratio Lower Upper

41 100

69 0.0 66.4 99.6#

39 0.0 50.2 75.2#





#49

1,4-Dioxane

Concen: 35.625 ug/l

RT: 9.612 min Scan# 2842

Delta R.T. 0.043 min

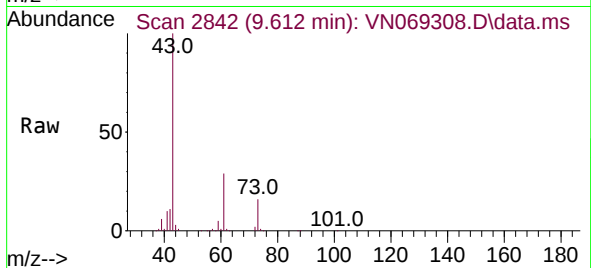
Lab File: VN069308.D

Acq: 29 Oct 2021 18:13

Instrument :

MSVOA_N

ClientSampleId :



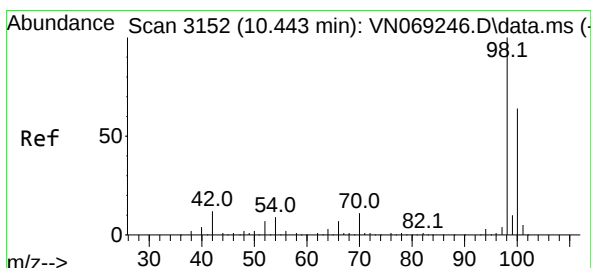
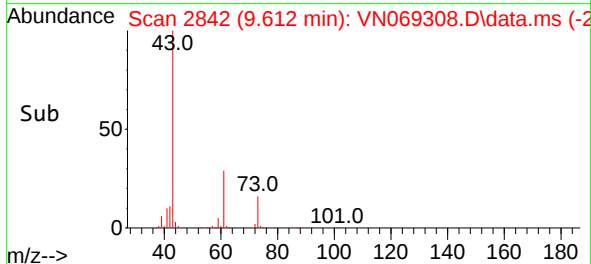
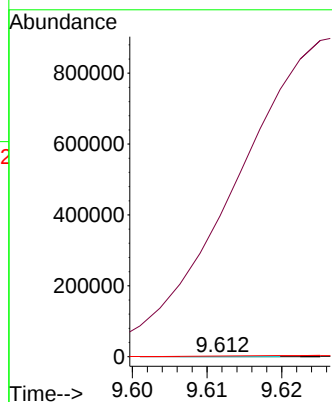
Tgt Ion: 88 Resp: 82

Ion Ratio Lower Upper

88 100

43 0.0 24.9 37.3#

58 0.0 56.9 85.3#



#50

Toluene-d8

Concen: 50.306 ug/l

RT: 10.443 min Scan# 3152

Delta R.T. 0.000 min

Lab File: VN069308.D

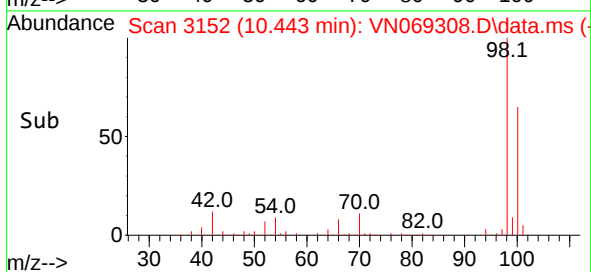
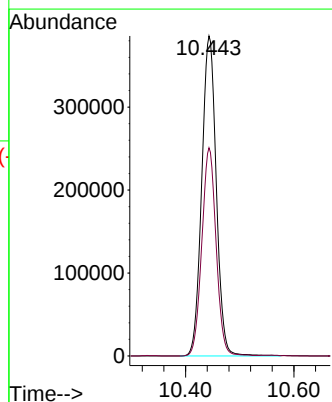
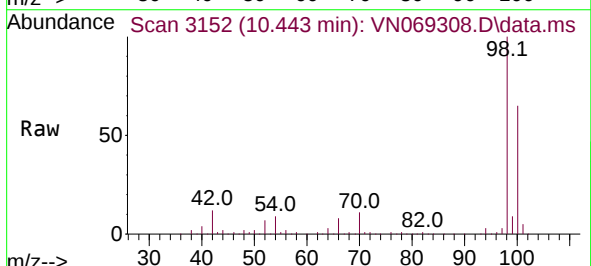
Acq: 29 Oct 2021 18:13

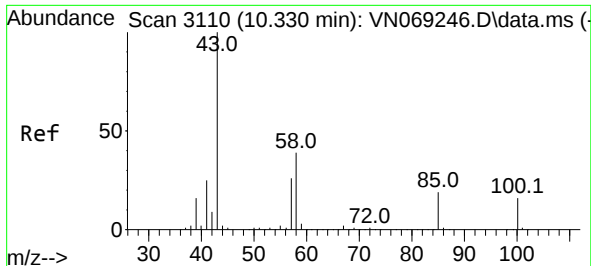
Tgt Ion: 98 Resp: 718600

Ion Ratio Lower Upper

98 100

100 64.0 51.5 77.3

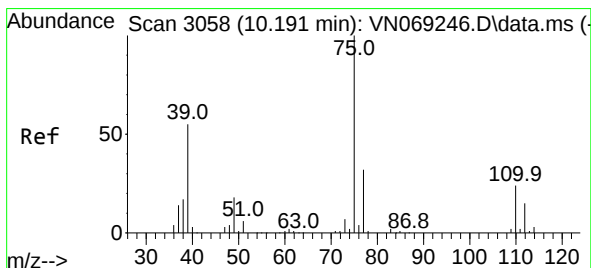
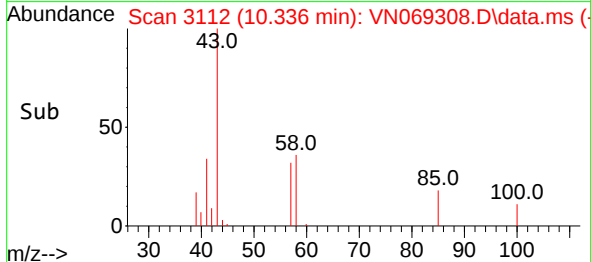
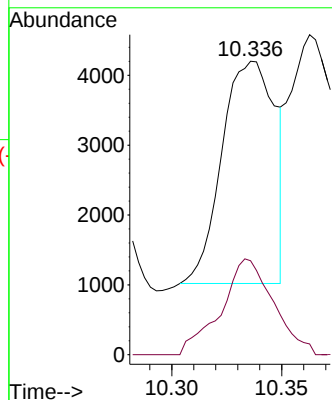
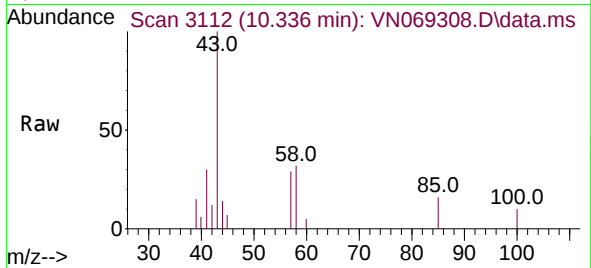




#51
4-Methyl-2-Pentanone
Concen: 7.217 ug/l
RT: 10.336 min Scan# 3110
Delta R.T. 0.006 min
Lab File: VN069308.D
Acq: 29 Oct 2021 18:13

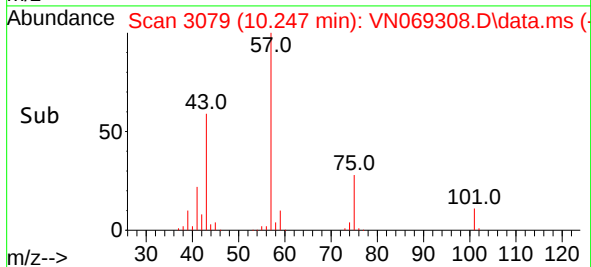
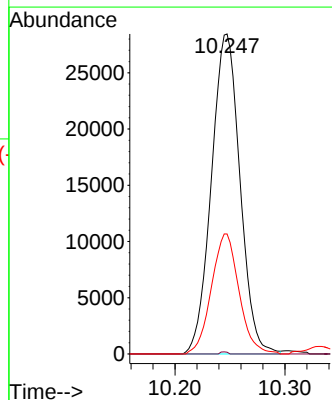
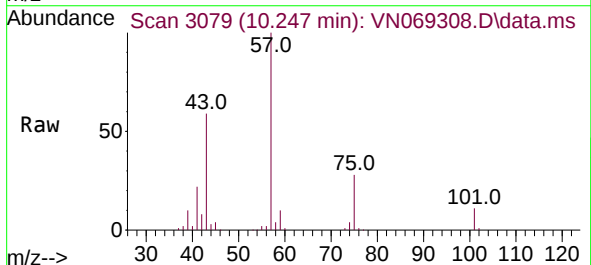
Instrument :
MSVOA_N
ClientSampleId :

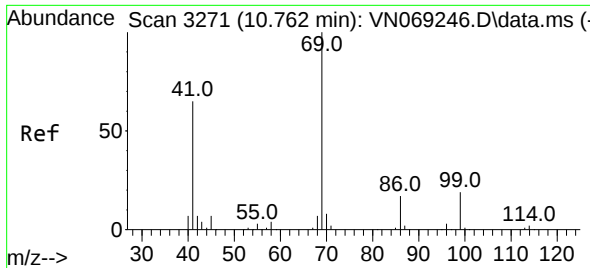
Tgt Ion: 43 Resp: 5341
Ion Ratio Lower Upper
43 100
58 42.6 31.0 46.4



#54
cis-1,3-Dichloropropene
Concen: 8.869 ug/l
RT: 10.247 min Scan# 3079
Delta R.T. 0.056 min
Lab File: VN069308.D
Acq: 29 Oct 2021 18:13

Tgt Ion: 75 Resp: 51335
Ion Ratio Lower Upper
75 100
77 0.6 25.6 38.4#
39 37.5 42.9 64.3#

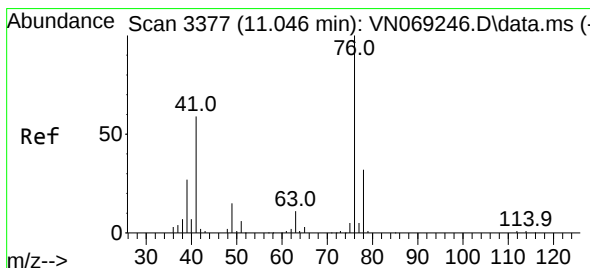
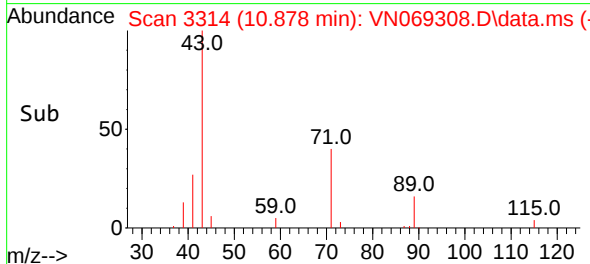
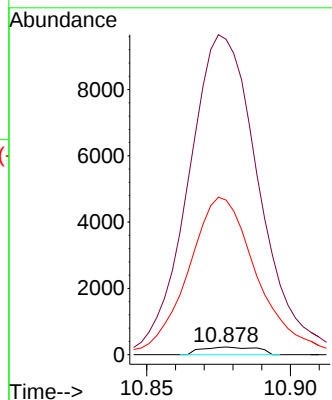
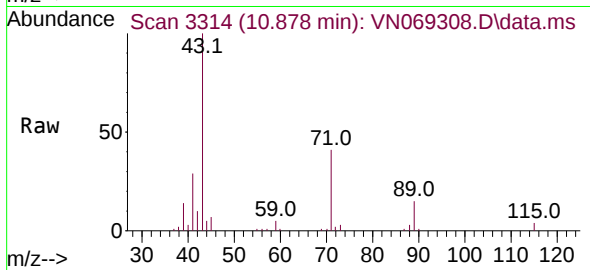




#56
Ethyl methacrylate
Concen: 1.725 ug/l
RT: 10.878 min Scan# 31
Delta R.T. 0.116 min
Lab File: VN069308.D
Acq: 29 Oct 2021 18:13

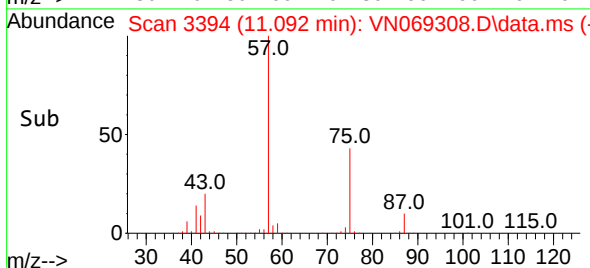
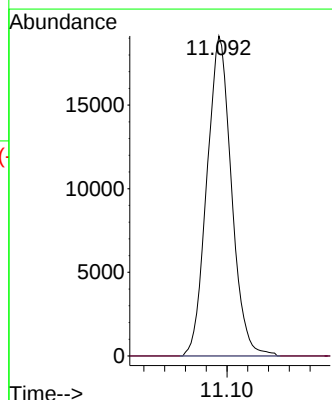
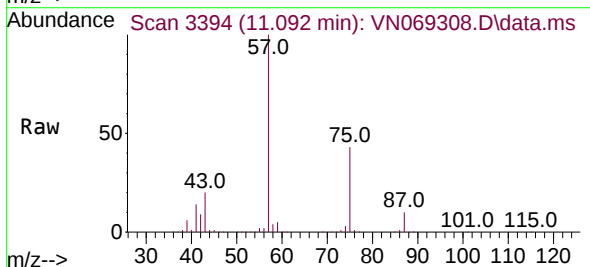
Instrument :
MSVOA_N
ClientSampleId :

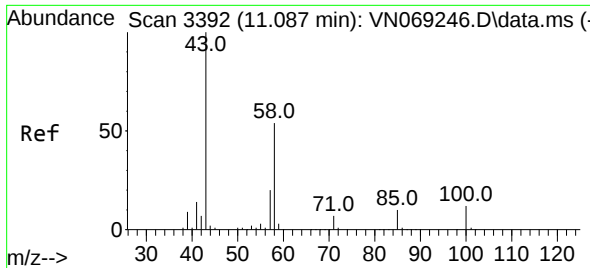
Tgt Ion: 69 Resp: 308
Ion Ratio Lower Upper
69 100
41 5422.7 53.3 79.9#
39 2589.3 33.3 49.9#



#57
1,3-Dichloropropane
Concen: 4.815 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.046 min
Lab File: VN069308.D
Acq: 29 Oct 2021 18:13

Tgt Ion: 76 Resp: 31408
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.8#

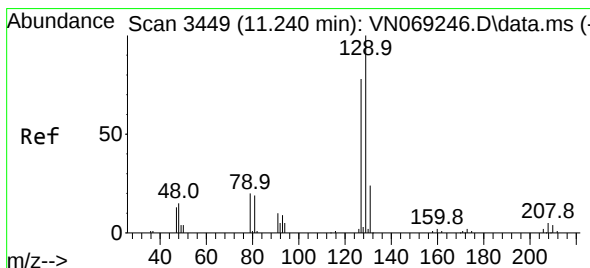
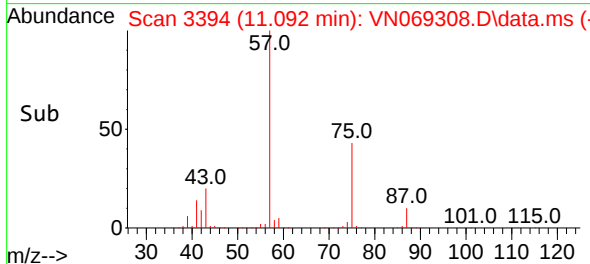
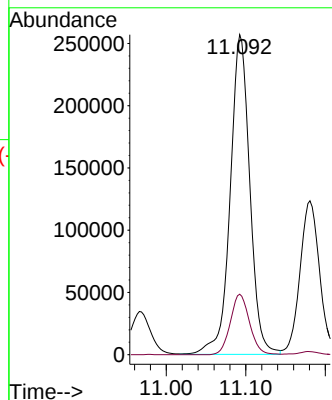
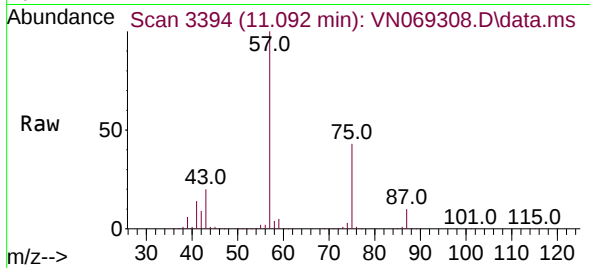




#59
2-Hexanone
Concen: 95.204 ug/l
RT: 11.092 min Scan# 31
Delta R.T. 0.005 min
Lab File: VN069308.D
Acq: 29 Oct 2021 18:13

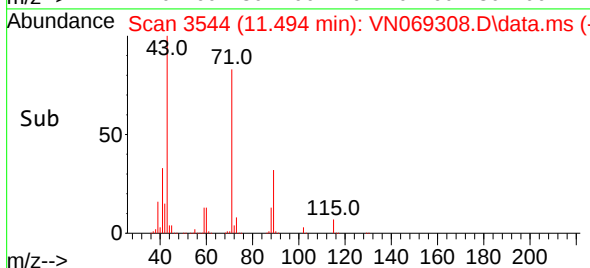
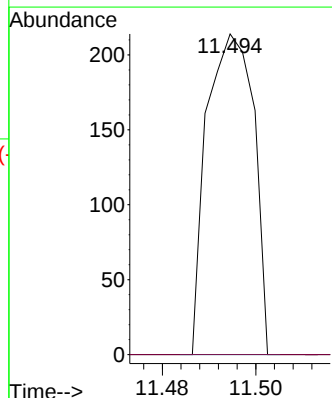
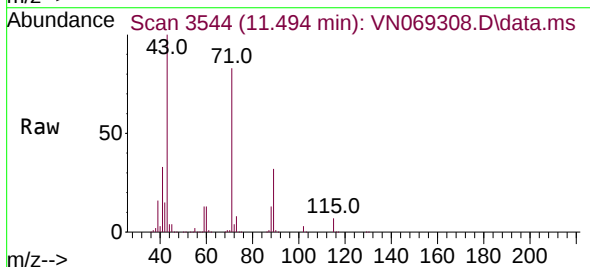
Instrument :
MSVOA_N
ClientSampleId :

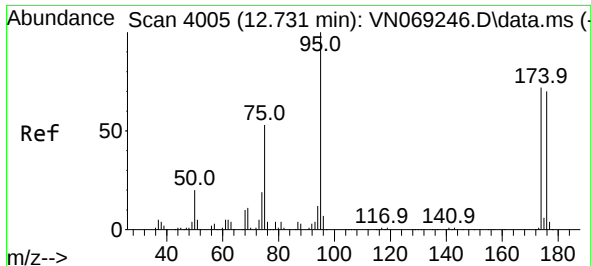
Tgt Ion: 43 Resp: 440285
Ion Ratio Lower Upper
43 100
58 18.5 26.9 80.7#



#60
Dibromochloromethane
Concen: 2.007 ug/l
RT: 11.494 min Scan# 3544
Delta R.T. 0.254 min
Lab File: VN069308.D
Acq: 29 Oct 2021 18:13

Tgt Ion:129 Resp: 149
Ion Ratio Lower Upper
129 100
127 0.0 39.1 117.2#

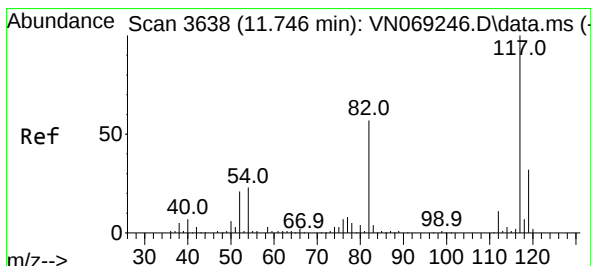
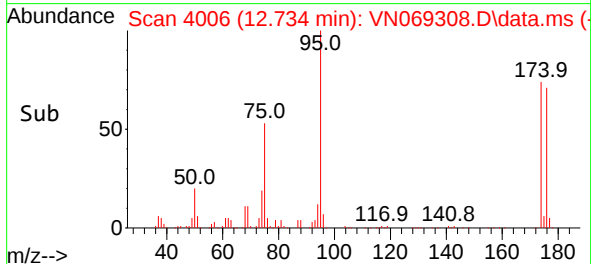
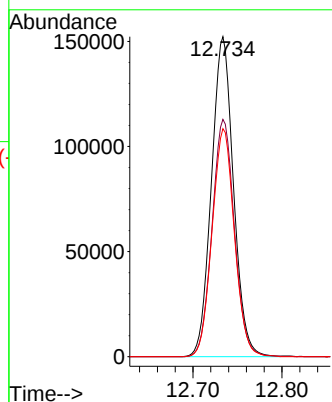
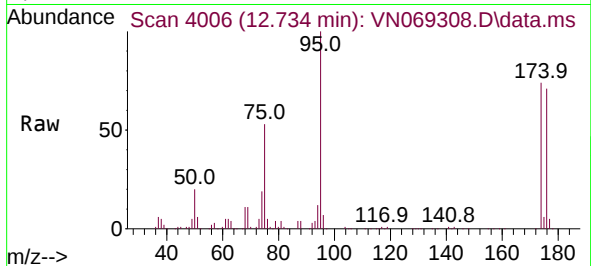




#62
4-Bromofluorobenzene
Concen: 48.556 ug/l
RT: 12.734 min Scan# 4005
Delta R.T. 0.003 min
Lab File: VN069308.D
Acq: 29 Oct 2021 18:13

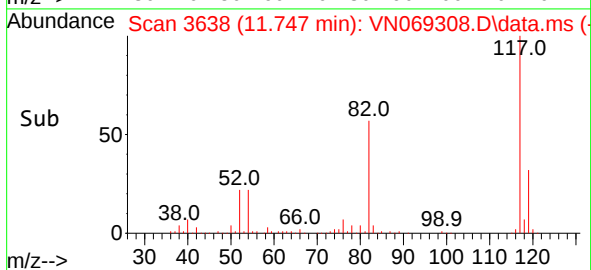
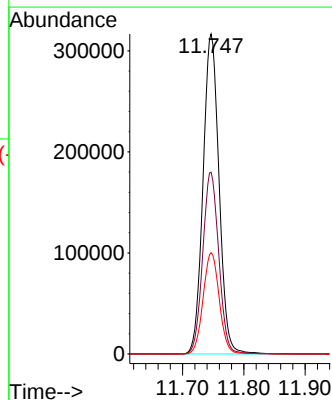
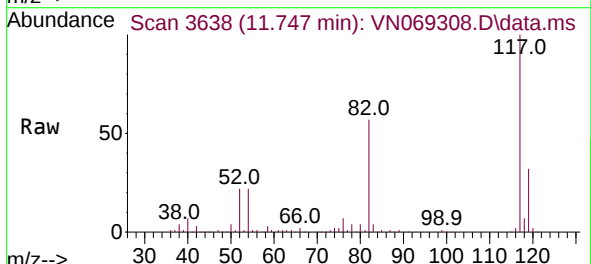
Instrument :
MSVOA_N
ClientSampleId :

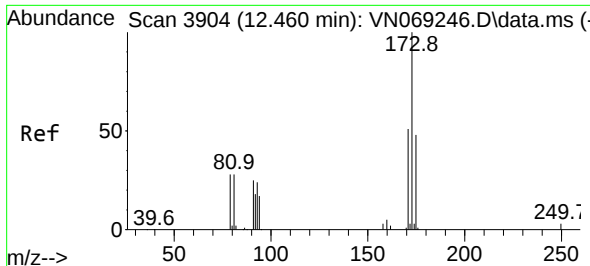
Tgt Ion: 95 Resp: 261732
Ion Ratio Lower Upper
95 100
174 75.4 0.0 144.8
176 72.2 0.0 140.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VN069308.D
Acq: 29 Oct 2021 18:13

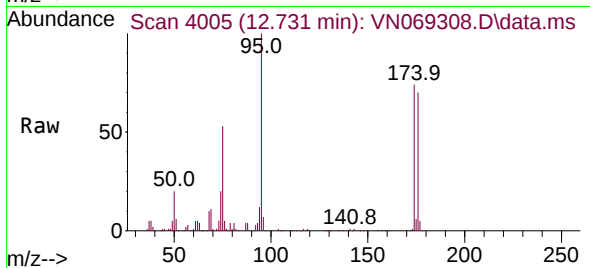
Tgt Ion: 117 Resp: 574274
Ion Ratio Lower Upper
117 100
82 56.8 46.4 69.6
119 31.7 26.0 39.0



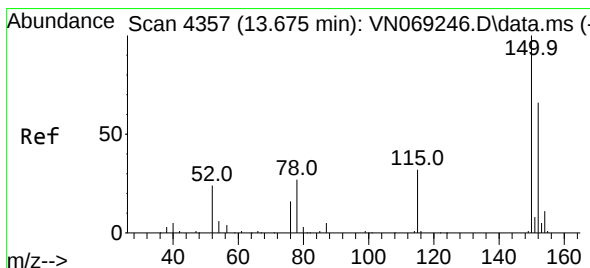
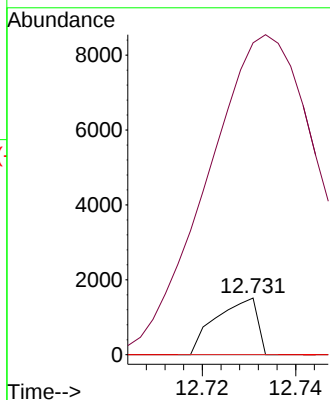
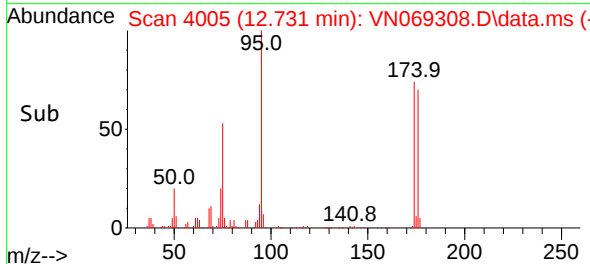


#71
Bromoform
Concen: 3.120 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.271 min
Lab File: VN069308.D
Acq: 29 Oct 2021 18:13

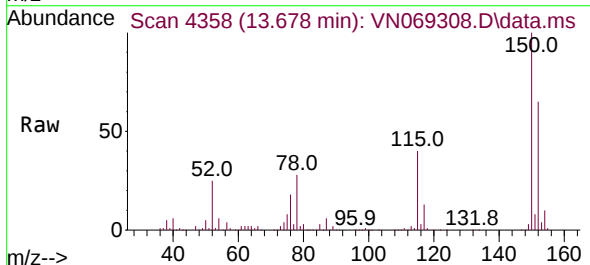
Instrument :
MSVOA_N
ClientSampleId :



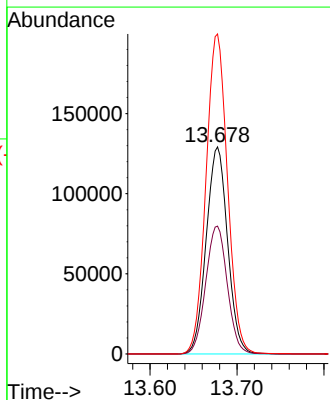
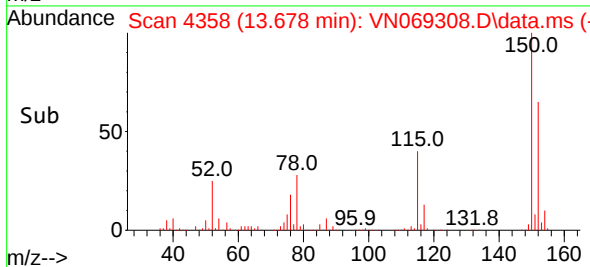
Tgt Ion:173 Resp: 932
Ion Ratio Lower Upper
173 100
175 1469.1 23.8 71.5#
254 0.0 0.0 0.0

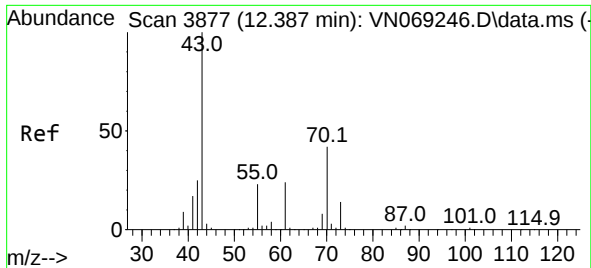


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.678 min Scan# 4358
Delta R.T. 0.003 min
Lab File: VN069308.D
Acq: 29 Oct 2021 18:13



Tgt Ion:152 Resp: 221043
Ion Ratio Lower Upper
152 100
115 62.3 31.4 94.3
150 155.0 0.0 351.0

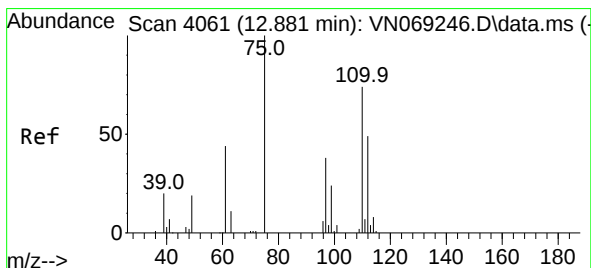
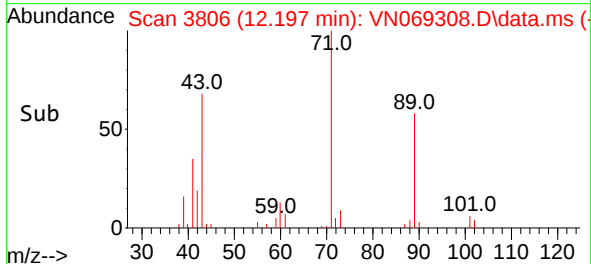
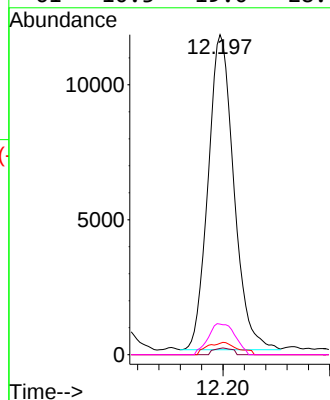
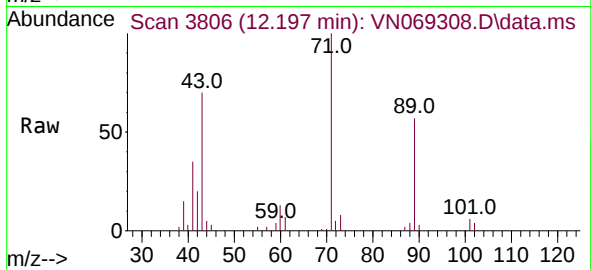




#74
N-amy1 acetate
Concen: 2.668 ug/l
RT: 12.197 min Scan# 31
Delta R.T. -0.190 min
Lab File: VN069308.D
Acq: 29 Oct 2021 18:13

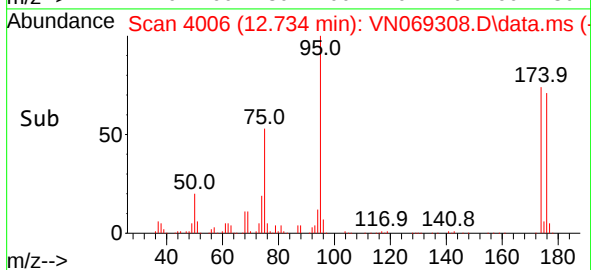
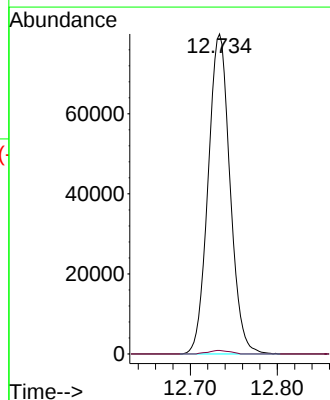
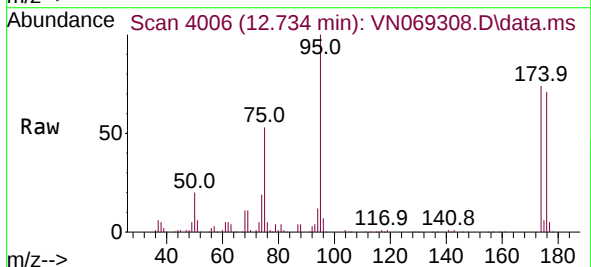
Instrument :
MSVOA_N
ClientSampleId :

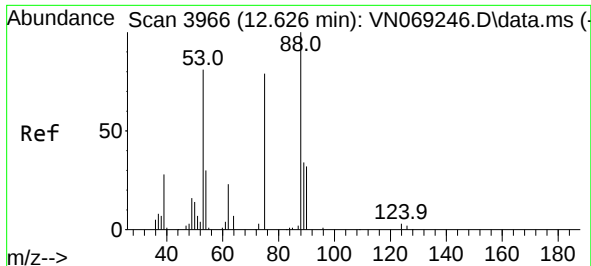
Tgt Ion:	43	Resp:	19531
Ion	Ratio	Lower	Upper
43	100		
70	1.5	32.2	48.2#
55	4.5	18.0	27.0#
61	10.3	19.0	28.4#



#76
1,2,3-Trichloropropane
Concen: 24.036 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. -0.147 min
Lab File: VN069308.D
Acq: 29 Oct 2021 18:13

Tgt Ion:	75	Resp:	139735
Ion	Ratio	Lower	Upper
75	100		
77	1.1	96.2	288.4#

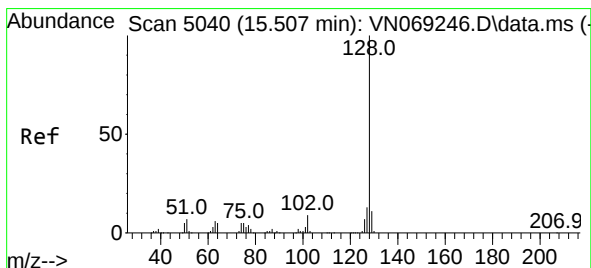
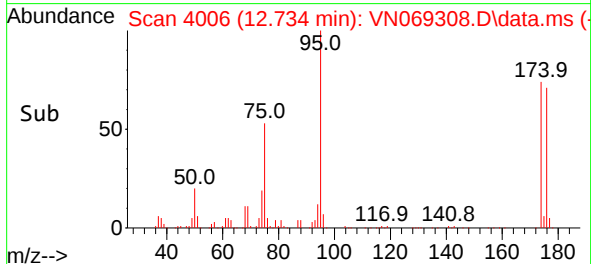
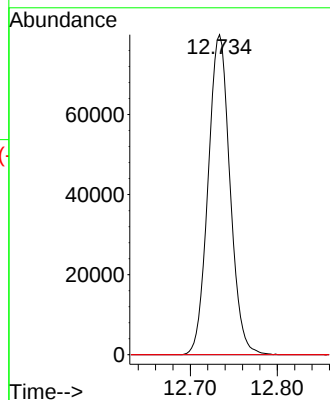
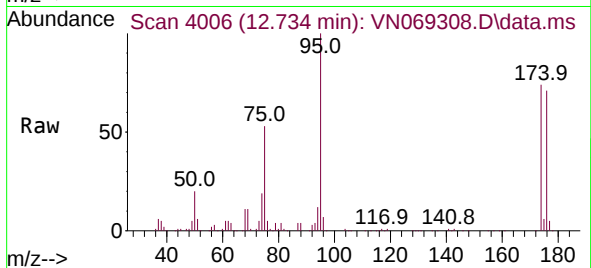




#81
trans-1,4-Dichloro-2-butene
Concen: 69.006 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.108 min
Lab File: VN069308.D
Acq: 29 Oct 2021 18:13

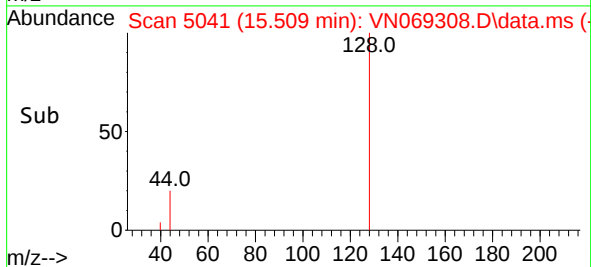
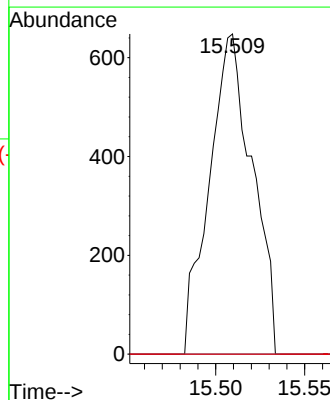
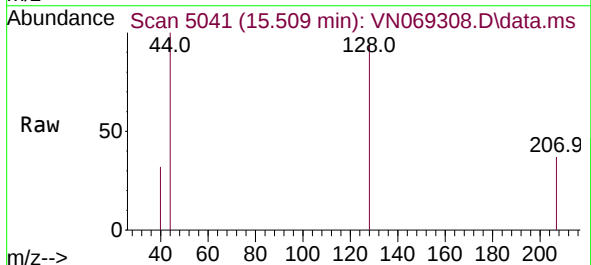
Instrument :
MSVOA_N
ClientSampleId :

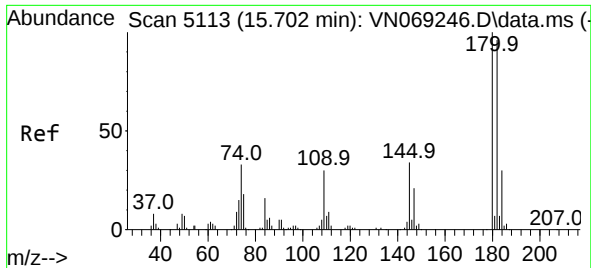
Tgt Ion: 75 Resp: 139735
Ion Ratio Lower Upper
75 100
53 0.0 75.4 113.2#
89 0.0 36.9 55.3#



#95
Naphthalene
Concen: 3.400 ug/l
RT: 15.509 min Scan# 5041
Delta R.T. 0.002 min
Lab File: VN069308.D
Acq: 29 Oct 2021 18:13

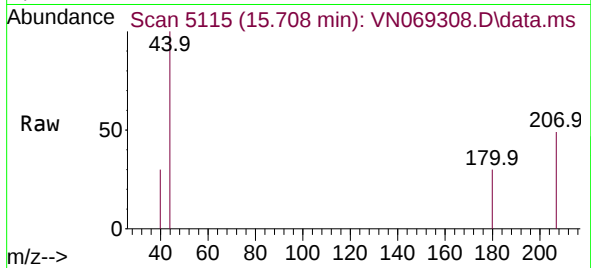
Tgt Ion: 128 Resp: 1090
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 0.0 8.9 13.3#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.232 ug/l
 RT: 15.708 min Scan# 51
 Delta R.T. 0.006 min
 Lab File: VN069308.D
 Acq: 29 Oct 2021 18:13

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:180 Resp: 94
 Ion Ratio Lower Upper
 180 100
 182 55.3 48.1 144.3
 145 0.0 17.4 52.2#

