

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102921\
 Data File : VN069306.D
 Acq On : 29 Oct 2021 17:21
 Operator : JC/MD
 Sample : PB140327ZHE#02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 30 05:44:18 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

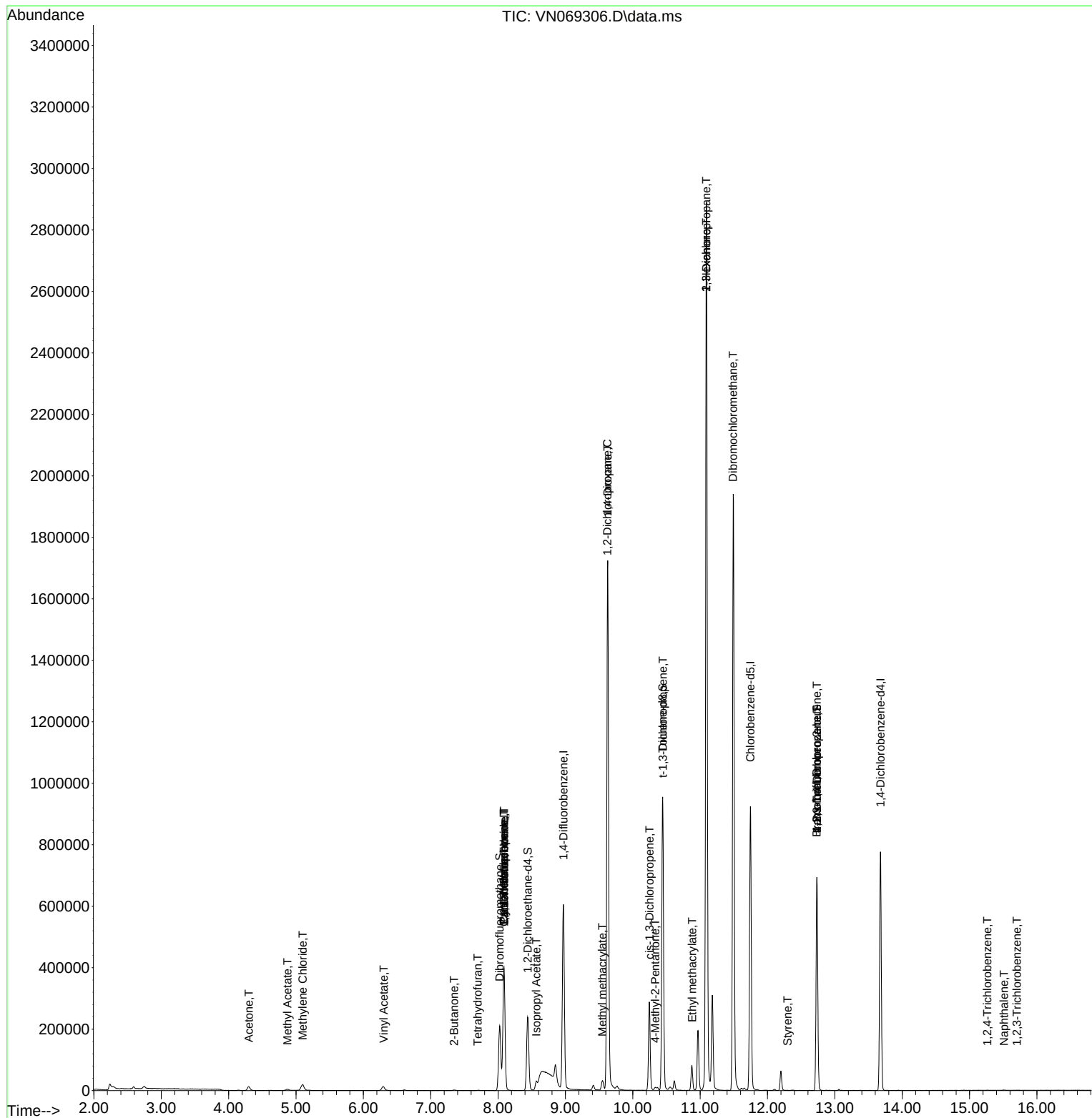
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.088	168	295425	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.971	114	536395	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.747	117	541645	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	205666	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	202551	47.496	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	95.000%
35) Dibromofluoromethane	8.024	113	153291	45.845	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	91.680%
50) Toluene-d8	10.443	98	673331	50.365	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	100.720%
62) 4-Bromofluorobenzene	12.734	95	247578	49.075	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	98.160%
Target Compounds						
					Qvalue	
3) Chloromethane	2.301	50	872	Below Cal	#	42
16) Acetone	4.299	43	23744	13.068	ug/l	100
18) Methyl Acetate	4.873	43	8121	1.315	ug/l	93
20) Methylene Chloride	5.098	84	15503	4.448	ug/l	95
23) Vinyl Acetate	6.305	43	52	6.595	ug/l #	72
25) 2-Butanone	7.348	43	3577	2.910	ug/l	95
29) Tetrahydrofuran	7.697	42	753	3.353	ug/l #	54
31) Cyclohexane	8.088	56	7320	1.283	ug/l #	17
32) 1,1,1-Trichloroethane	8.091	97	57	0.884	ug/l #	1
36) 1,1-Dichloropropene	8.088	75	24282	5.251	ug/l #	49
38) Carbon Tetrachloride	8.091	117	30802	6.748	ug/l #	16
43) Isopropyl Acetate	8.568	43	34321	4.159	ug/l #	89
45) 1,2-Dichloropropane	9.622	63	2089	0.590	ug/l #	43
48) Methyl methacrylate	9.547	41	8746	2.199	ug/l #	13
49) 1,4-Dioxane	9.628	88	161	36.470	ug/l #	1
51) 4-Methyl-2-Pentanone	10.333	43	5281	7.263	ug/l #	84
53) t-1,3-Dichloropropene	10.448	75	50	1.947	ug/l #	1
54) cis-1,3-Dichloropropene	10.247	75	53299	9.672	ug/l #	62
56) Ethyl methacrylate	10.880	69	186	1.710	ug/l #	1
57) 1,3-Dichloropropane	11.092	76	30806	5.046	ug/l #	42
59) 2-Hexanone	11.092	43	443030	101.755	ug/l #	51
60) Dibromochloromethane	11.489	129	136	2.006	ug/l #	10
70) Styrene	12.299	104	83	1.462	ug/l #	24
71) Bromoform	12.731	173	1156	3.198	ug/l #	1
76) 1,2,3-Trichloropropane	12.734	75	132318	24.462	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.734	75	132318	70.154	ug/l #	12
93) 1,2,4-Trichlorobenzene	15.265	180	236	2.555	ug/l #	47
95) Naphthalene	15.512	128	1649	3.458	ug/l #	71
96) 1,2,3-Trichlorobenzene	15.702	180	266	2.285	ug/l #	56

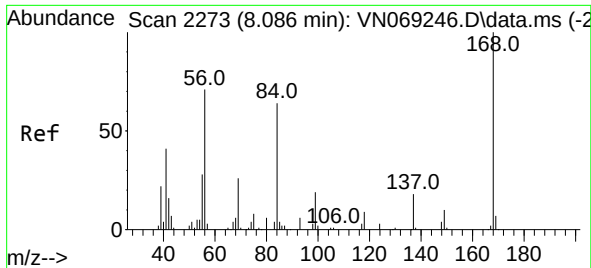
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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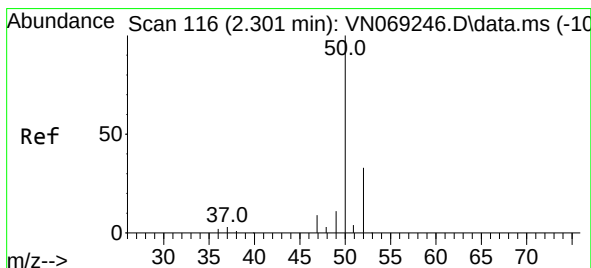
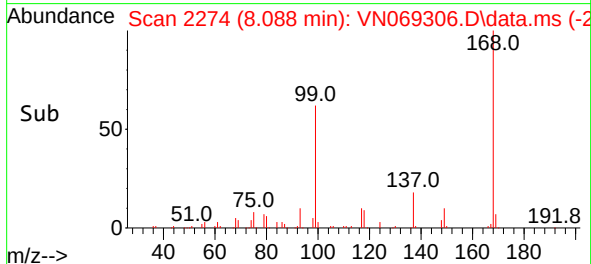
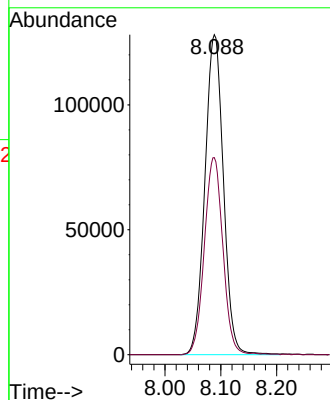
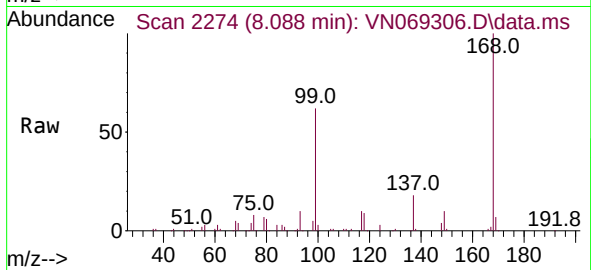




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 21
Delta R.T. 0.002 min
Lab File: VN069306.D
Acq: 29 Oct 2021 17:21

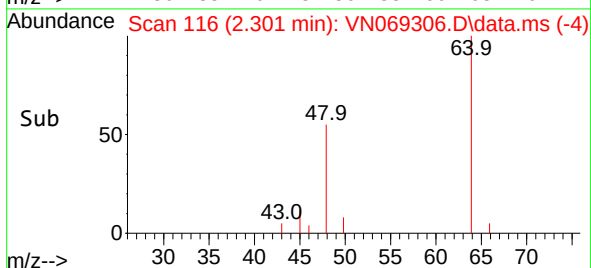
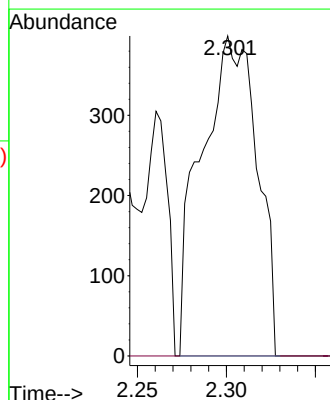
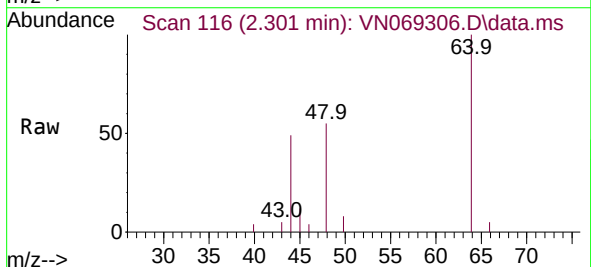
Instrument :
MSVOA_N
ClientSampleId :

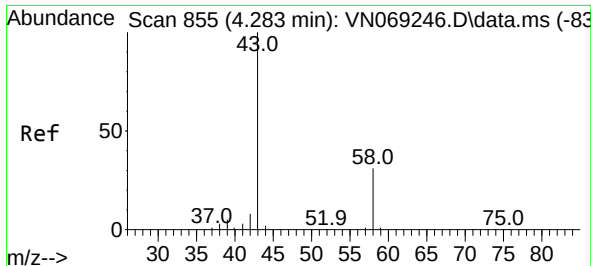
Tgt Ion:168 Resp: 295425
Ion Ratio Lower Upper
168 100
99 61.6 48.9 73.3



#3
Chloromethane
Concen: Below Cal
RT: 2.301 min Scan# 116
Delta R.T. -0.000 min
Lab File: VN069306.D
Acq: 29 Oct 2021 17:21

Tgt Ion: 50 Resp: 872
Ion Ratio Lower Upper
50 100
52 0.0 26.3 39.5#

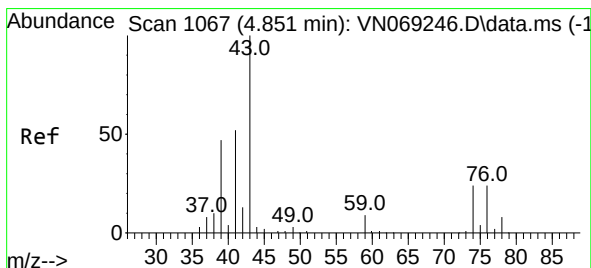
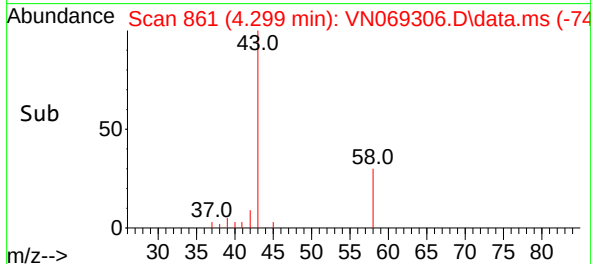
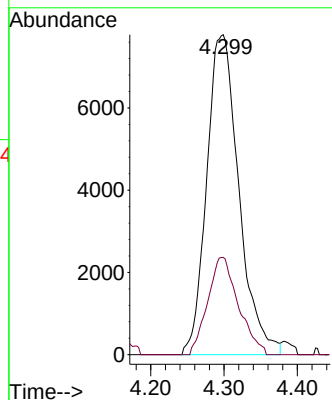
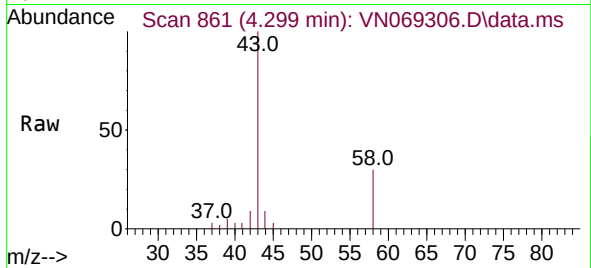




#16
Acetone
Concen: 13.068 ug/l
RT: 4.299 min Scan# 80
Delta R.T. 0.016 min
Lab File: VN069306.D
Acq: 29 Oct 2021 17:21

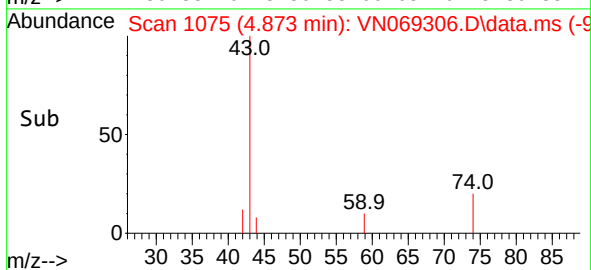
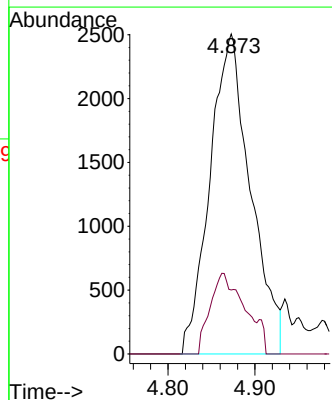
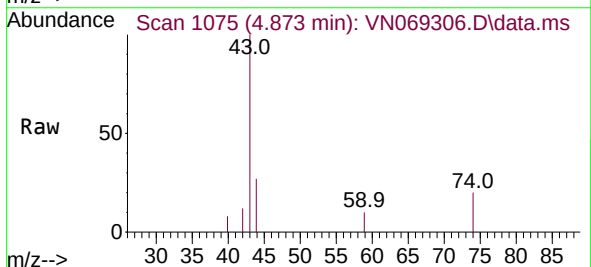
Instrument :
MSVOA_N
ClientSampleId :

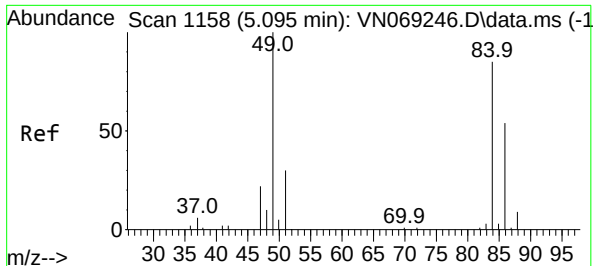
Tgt Ion: 43 Resp: 23744
Ion Ratio Lower Upper
43 100
58 30.4 24.5 36.7



#18
Methyl Acetate
Concen: 1.315 ug/l
RT: 4.873 min Scan# 1075
Delta R.T. 0.022 min
Lab File: VN069306.D
Acq: 29 Oct 2021 17:21

Tgt Ion: 43 Resp: 8121
Ion Ratio Lower Upper
43 100
74 20.3 18.9 28.3





#20

Methylene Chloride

Concen: 4.448 ug/l

RT: 5.098 min Scan# 1159

Delta R.T. 0.003 min

Lab File: VN069306.D

Acq: 29 Oct 2021 17:21

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion: 84 Resp: 15503

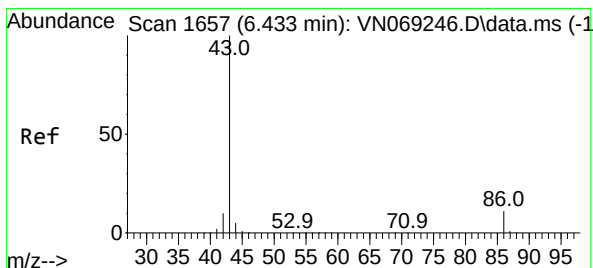
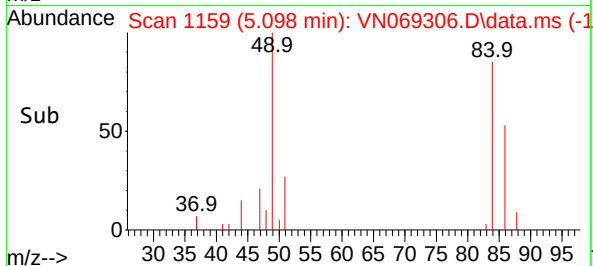
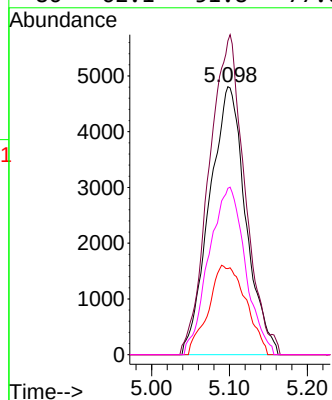
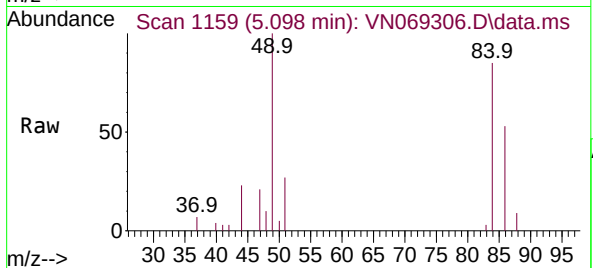
Ion Ratio Lower Upper

84 100

49 117.1 97.6 146.4

51 32.1 30.3 45.5

86 62.1 51.8 77.6



#23

Vinyl Acetate

Concen: 6.595 ug/l

RT: 6.305 min Scan# 1609

Delta R.T. -0.128 min

Lab File: VN069306.D

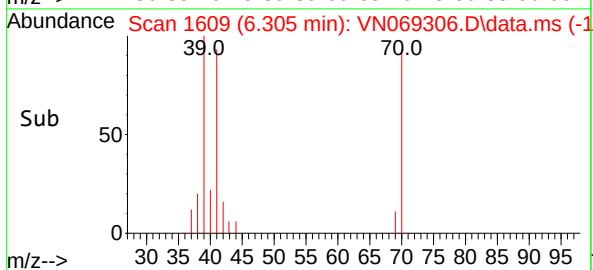
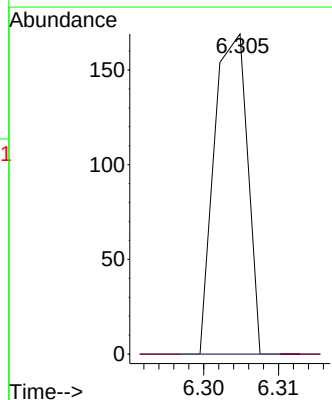
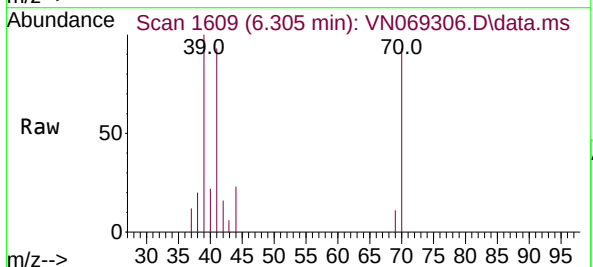
Acq: 29 Oct 2021 17:21

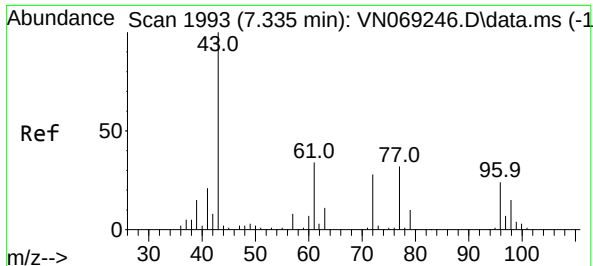
Tgt Ion: 43 Resp: 52

Ion Ratio Lower Upper

43 100

86 0.0 8.3 12.5#

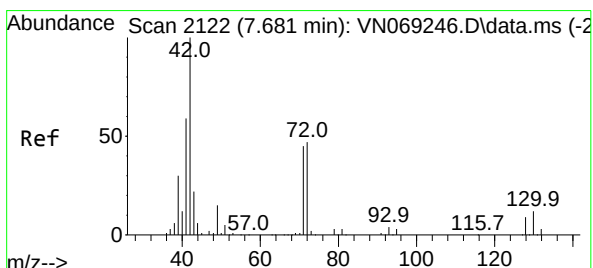
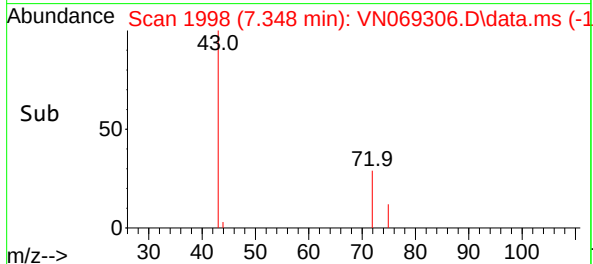
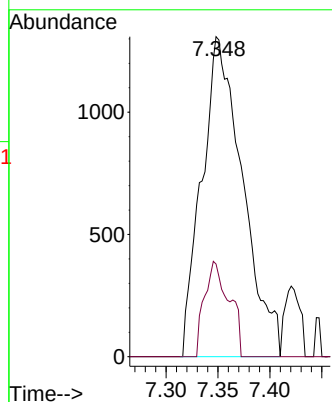
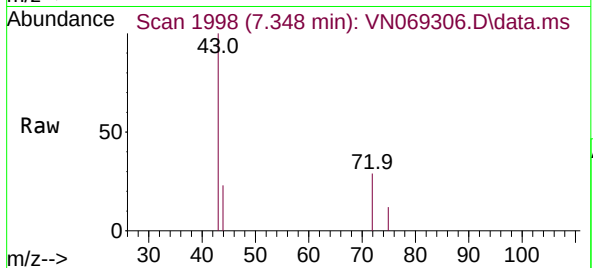




#25
2-Butanone
Concen: 2.910 ug/l
RT: 7.348 min Scan# 1998
Delta R.T. 0.013 min
Lab File: VN069306.D
Acq: 29 Oct 2021 17:21

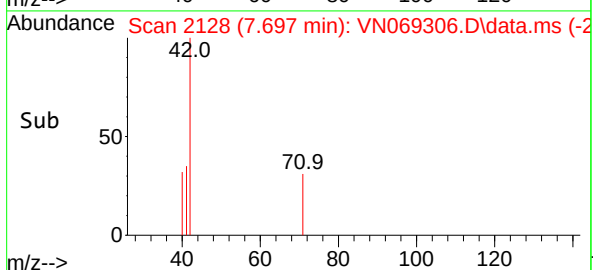
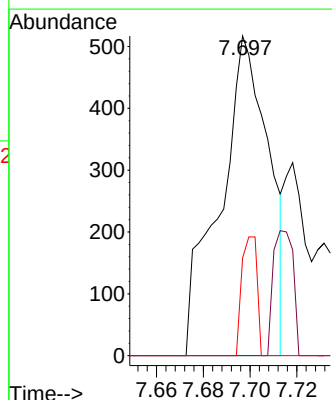
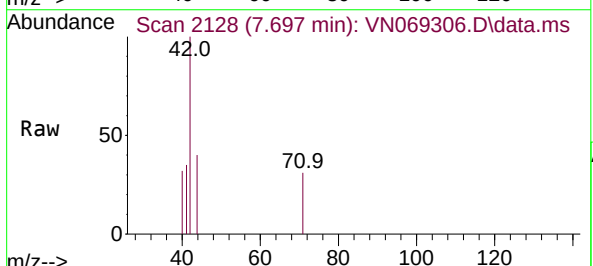
Instrument :
MSVOA_N
ClientSampleId :

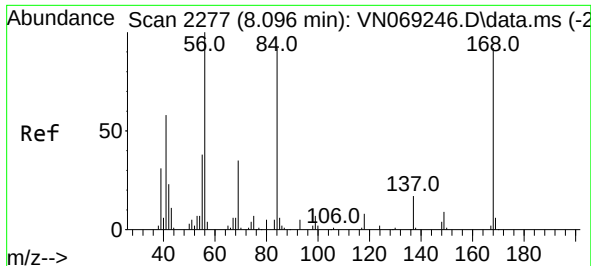
Tgt Ion: 43 Resp: 3577
Ion Ratio Lower Upper
43 100
72 29.0 21.2 31.8



#29
Tetrahydrofuran
Concen: 3.353 ug/l
RT: 7.697 min Scan# 2128
Delta R.T. 0.016 min
Lab File: VN069306.D
Acq: 29 Oct 2021 17:21

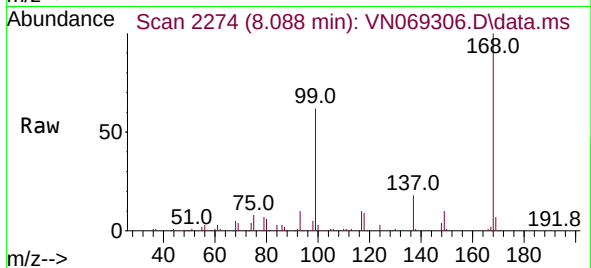
Tgt Ion: 42 Resp: 753
Ion Ratio Lower Upper
42 100
72 15.9 35.4 53.2#
71 11.6 33.8 50.6#



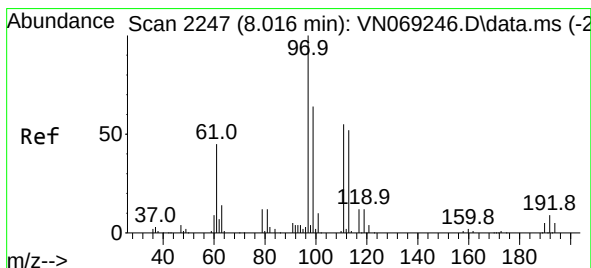
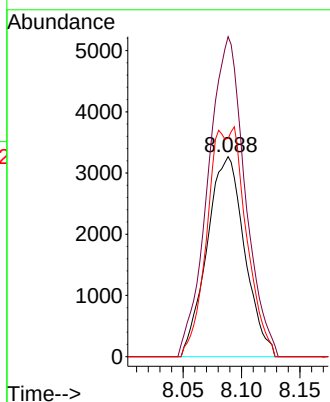
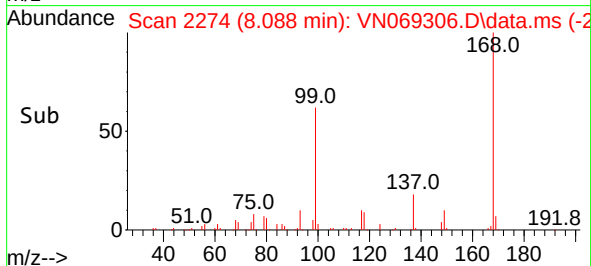


#31
Cyclohexane
Concen: 1.283 ug/l
RT: 8.088 min Scan# 21
Delta R.T. -0.008 min
Lab File: VN069306.D
Acq: 29 Oct 2021 17:21

Instrument :
MSVOA_N
ClientSampleId :

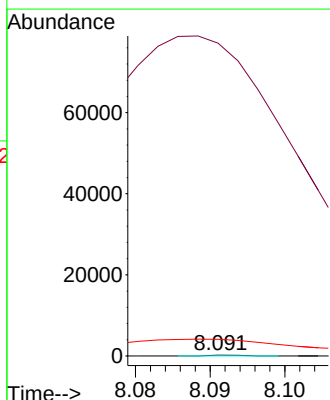
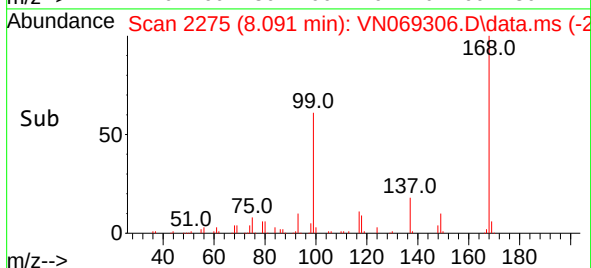
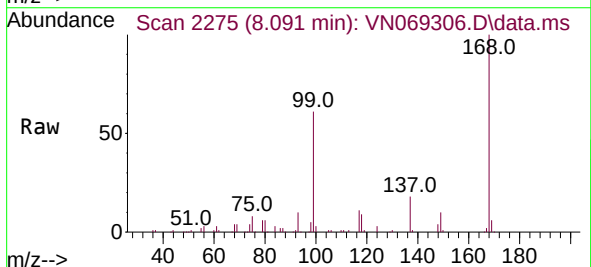


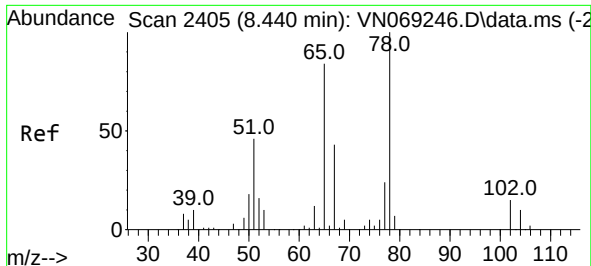
Tgt Ion: 56 Resp: 7320
Ion Ratio Lower Upper
56 100
69 160.0 26.9 40.3#
84 109.2 67.6 101.4#



#32
1,1,1-Trichloroethane
Concen: 0.884 ug/l
RT: 8.091 min Scan# 2275
Delta R.T. 0.075 min
Lab File: VN069306.D
Acq: 29 Oct 2021 17:21

Tgt Ion: 97 Resp: 57
Ion Ratio Lower Upper
97 100
99 318424.6 50.8 76.2#
61 16059.6 34.6 51.8#





#33

1,2-Dichloroethane-d4

Concen: 47.496 ug/l

RT: 8.440 min Scan# 2405

Delta R.T. -0.000 min

Lab File: VN069306.D

Acq: 29 Oct 2021 17:21

Instrument :

MSVOA_N

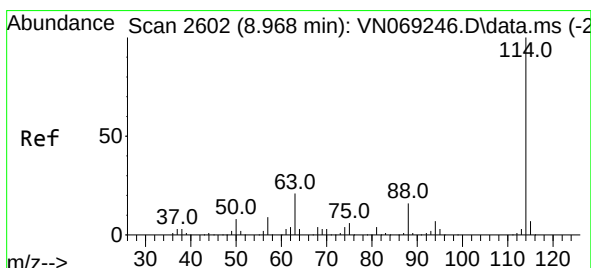
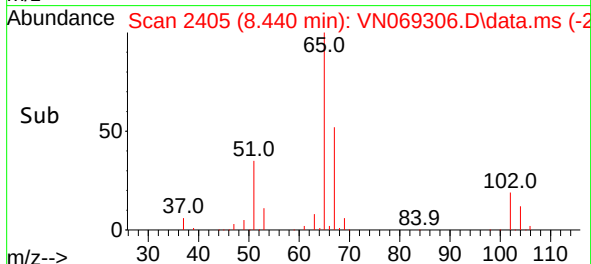
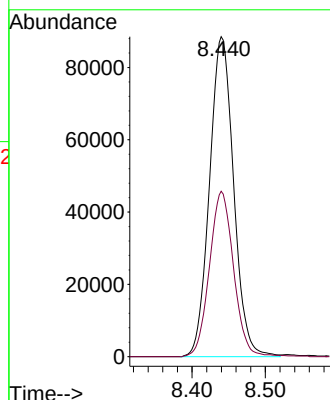
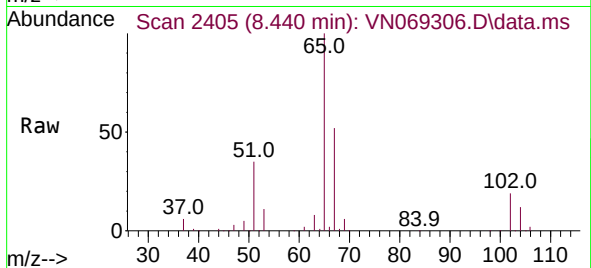
ClientSampleId :

Tgt Ion: 65 Resp: 202551

Ion Ratio Lower Upper

65 100

67 51.8 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: VN069306.D

Acq: 29 Oct 2021 17:21

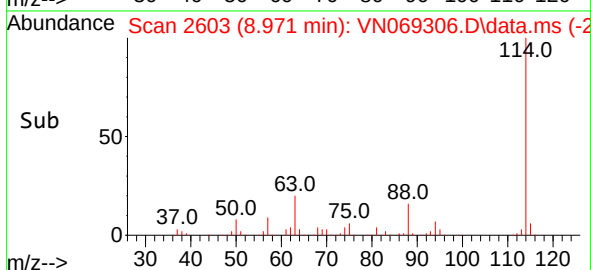
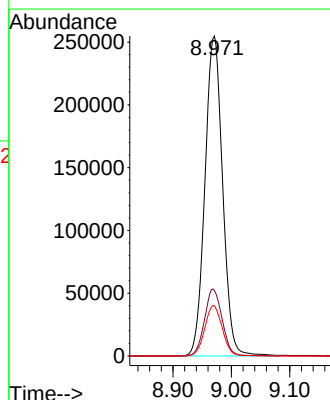
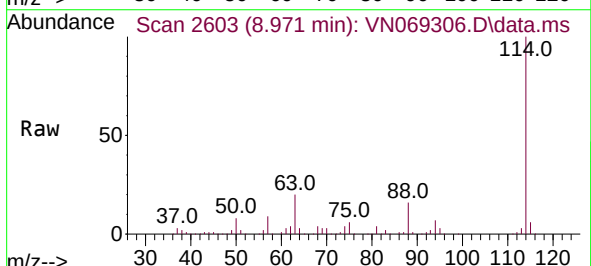
Tgt Ion: 114 Resp: 536395

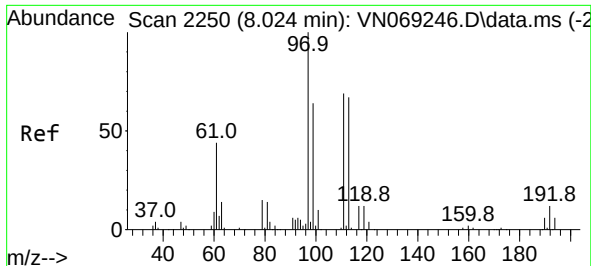
Ion Ratio Lower Upper

114 100

63 20.5 0.0 42.6

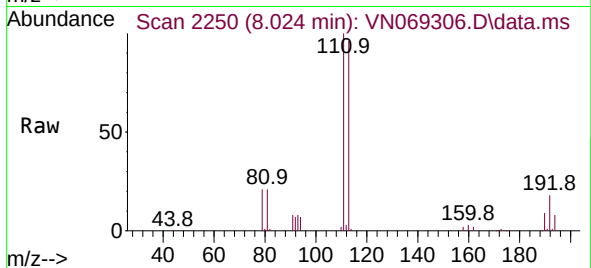
88 15.6 0.0 32.0



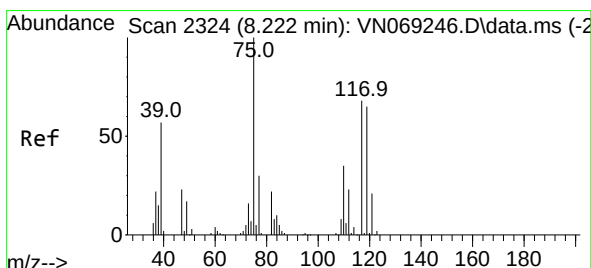
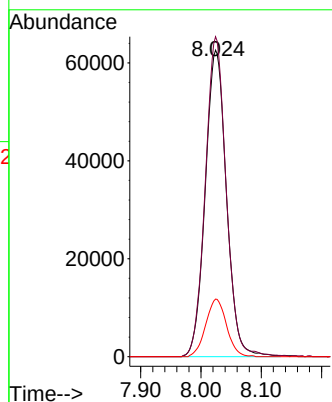
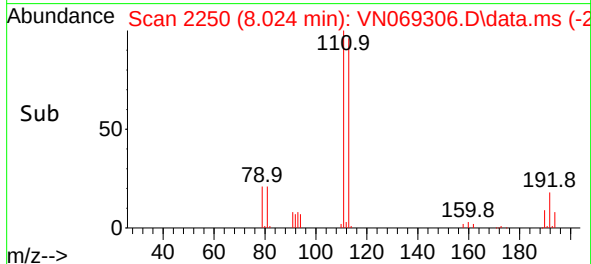


#35
Dibromofluoromethane
Concen: 45.845 ug/l
RT: 8.024 min Scan# 211
Delta R.T. 0.000 min
Lab File: VN069306.D
Acq: 29 Oct 2021 17:21

Instrument :
MSVOA_N
ClientSampleId :

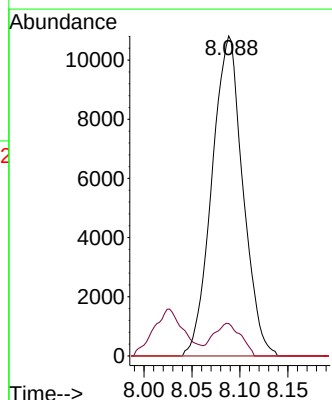
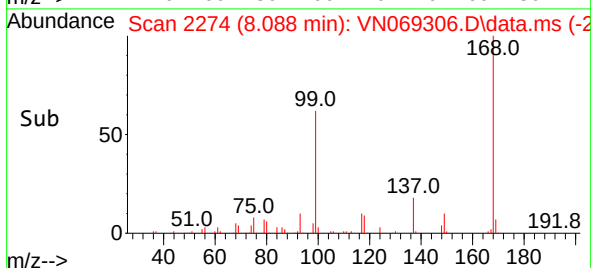
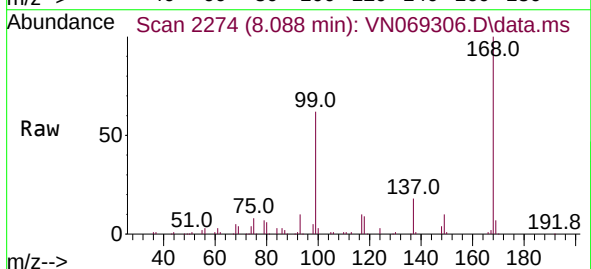


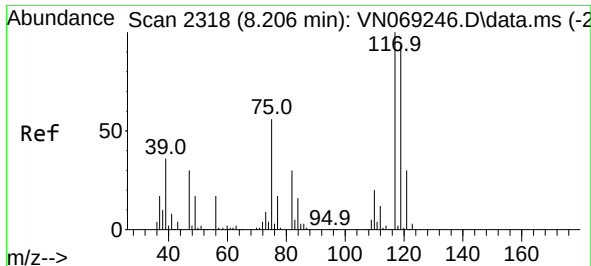
Tgt Ion:113 Resp: 153291
Ion Ratio Lower Upper
113 100
111 102.9 83.2 124.8
192 18.4 15.0 22.4



#36
1,1-Dichloropropene
Concen: 5.251 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.134 min
Lab File: VN069306.D
Acq: 29 Oct 2021 17:21

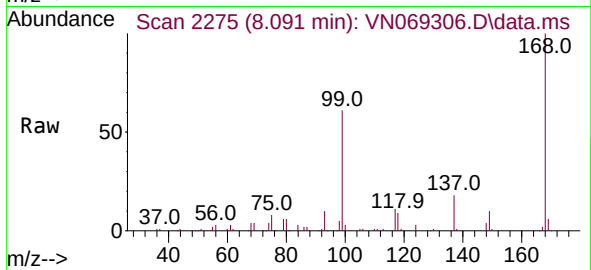
Tgt Ion: 75 Resp: 24282
Ion Ratio Lower Upper
75 100
110 9.1 17.9 53.8#
77 0.0 24.7 37.1#



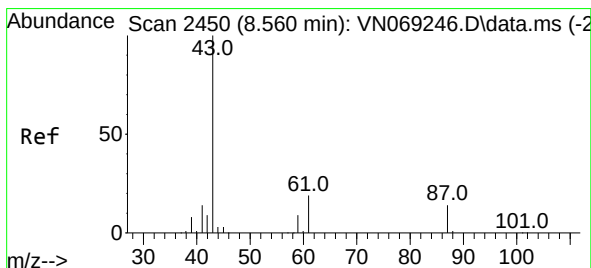
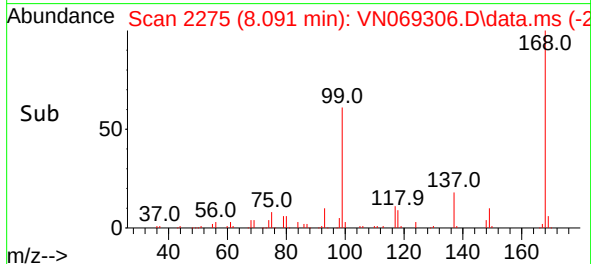
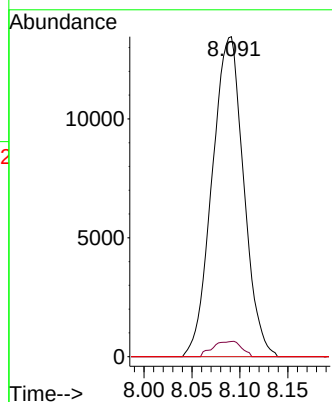


#38
Carbon Tetrachloride
Concen: 6.748 ug/l
RT: 8.091 min Scan# 211
Delta R.T. -0.115 min
Lab File: VN069306.D
Acq: 29 Oct 2021 17:21

Instrument :
MSVOA_N
ClientSampleId :

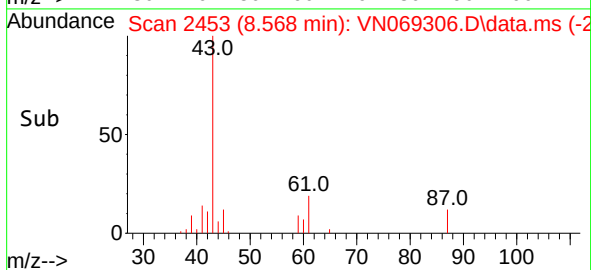
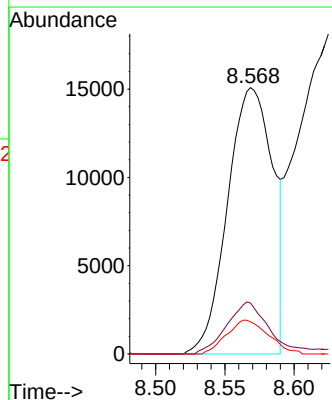
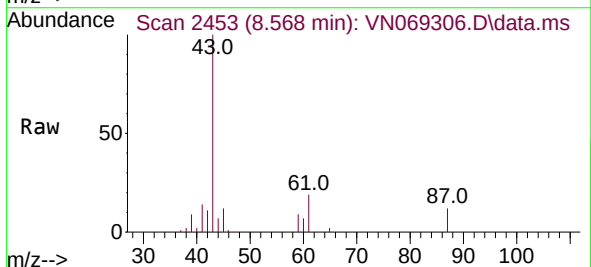


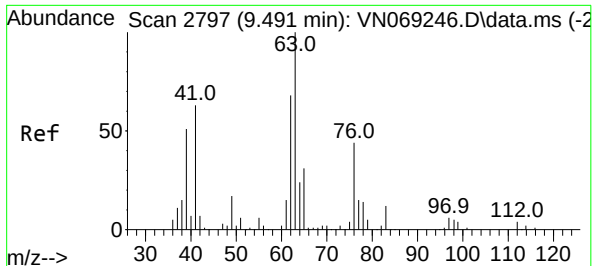
Tgt Ion:117 Resp: 30802
Ion Ratio Lower Upper
117 100
119 4.8 76.9 115.3#
121 0.0 24.6 37.0#



#43
Isopropyl Acetate
Concen: 4.159 ug/l
RT: 8.568 min Scan# 2453
Delta R.T. 0.008 min
Lab File: VN069306.D
Acq: 29 Oct 2021 17:21

Tgt Ion: 43 Resp: 34321
Ion Ratio Lower Upper
43 100
61 18.2 20.4 30.6#
87 11.7 10.7 16.1





#45

1,2-Dichloropropane

Concen: 0.590 ug/l

RT: 9.622 min Scan# 21

Delta R.T. 0.131 min

Lab File: VN069306.D

Acq: 29 Oct 2021 17:21

Instrument :

MSVOA_N

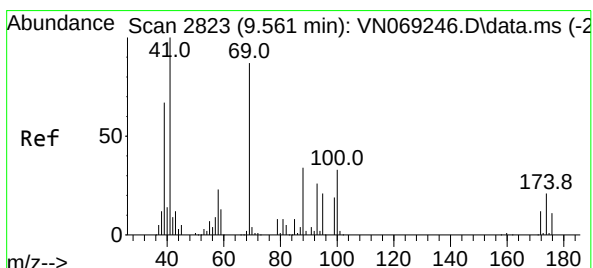
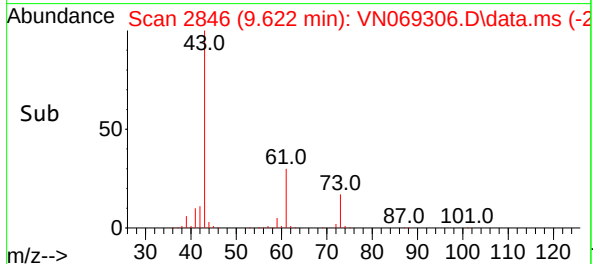
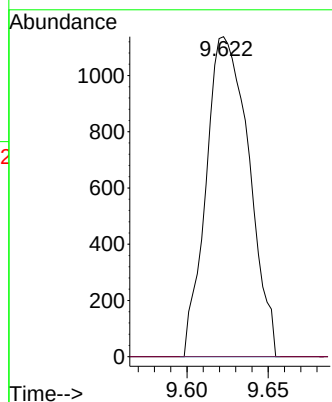
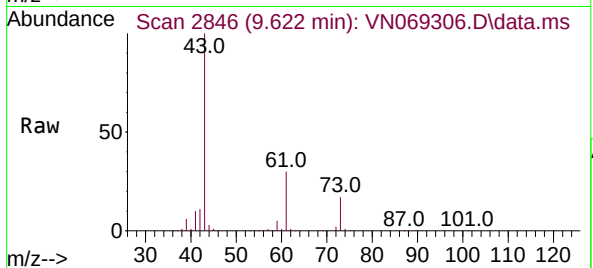
ClientSampleId :

Tgt Ion: 63 Resp: 2089

Ion Ratio Lower Upper

63 100

65 0.0 25.6 38.4#



#48

Methyl methacrylate

Concen: 2.199 ug/l

RT: 9.547 min Scan# 2818

Delta R.T. -0.014 min

Lab File: VN069306.D

Acq: 29 Oct 2021 17:21

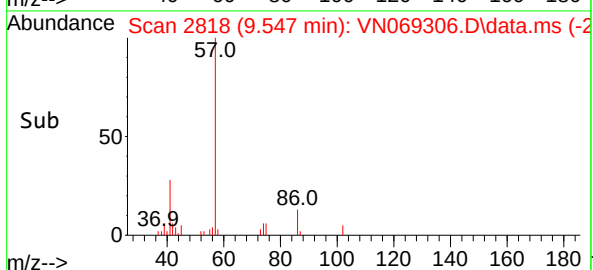
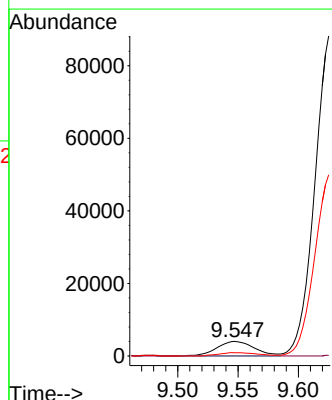
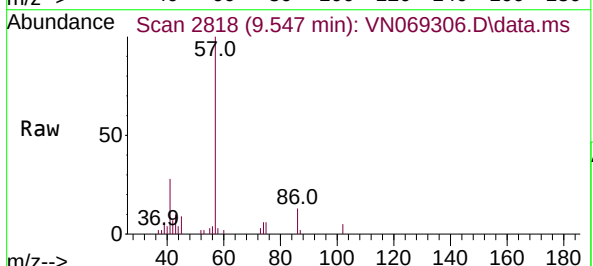
Tgt Ion: 41 Resp: 8746

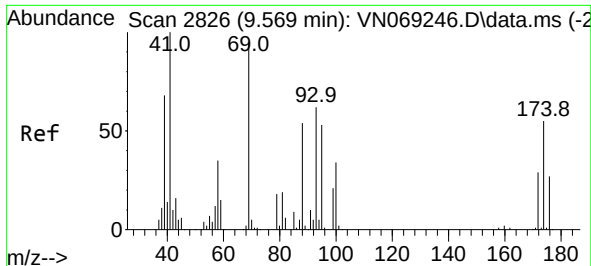
Ion Ratio Lower Upper

41 100

69 0.0 66.4 99.6#

39 0.0 50.2 75.2#





#49

1,4-Dioxane

Concen: 36.470 ug/l

RT: 9.628 min Scan# 21

Delta R.T. 0.059 min

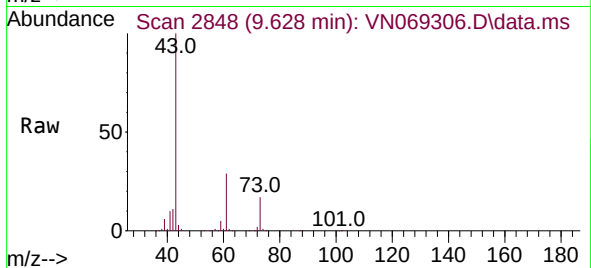
Lab File: VN069306.D

Acq: 29 Oct 2021 17:21

Instrument :

MSVOA_N

ClientSampleId :



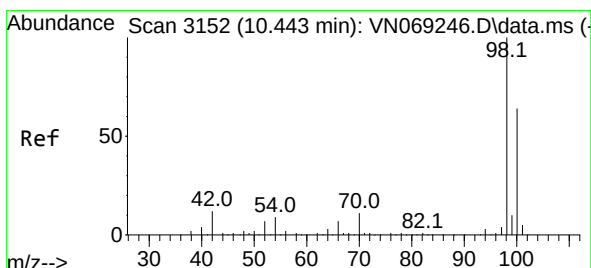
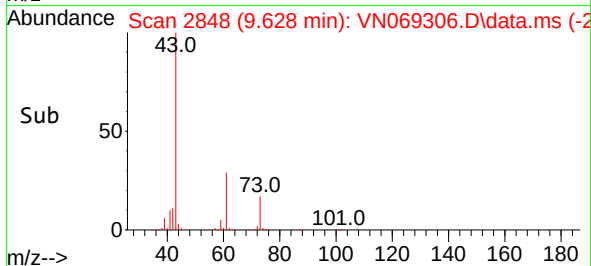
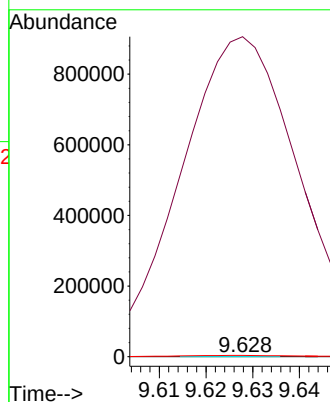
Tgt Ion: 88 Resp: 161

Ion Ratio Lower Upper

88 100

43 1054138.5 24.9 37.3#

58 4183.9 56.9 85.3#



#50

Toluene-d8

Concen: 50.365 ug/l

RT: 10.443 min Scan# 3152

Delta R.T. 0.000 min

Lab File: VN069306.D

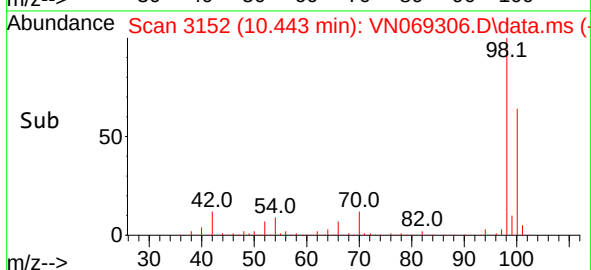
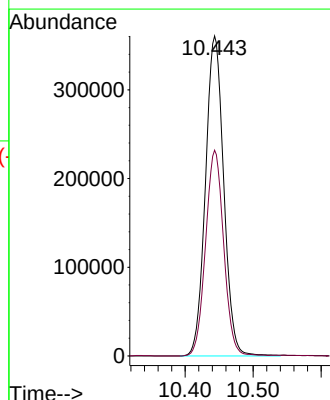
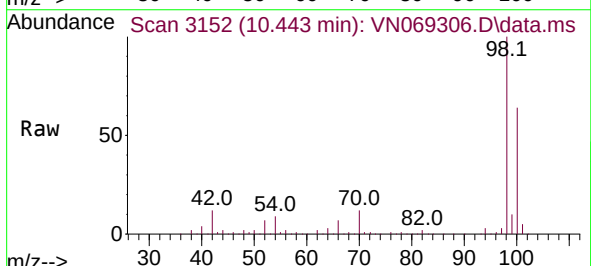
Acq: 29 Oct 2021 17:21

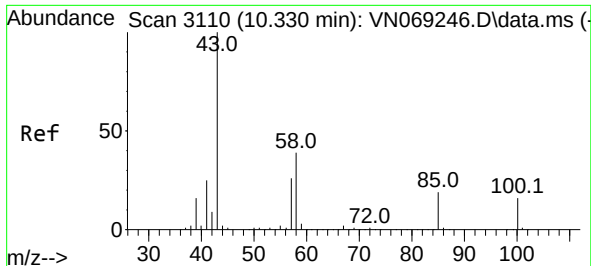
Tgt Ion: 98 Resp: 673331

Ion Ratio Lower Upper

98 100

100 63.8 51.5 77.3

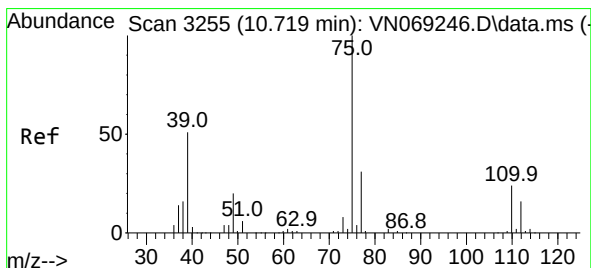
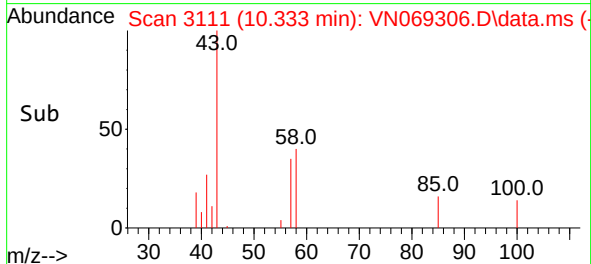
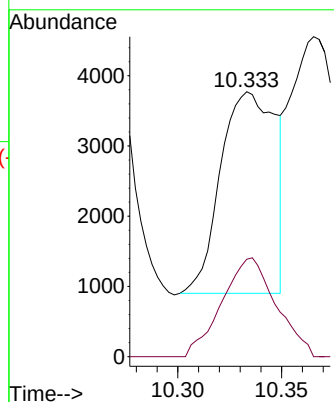
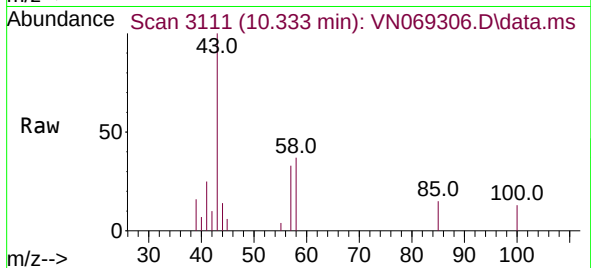




#51
4-Methyl-2-Pentanone
Concen: 7.263 ug/l
RT: 10.333 min Scan# 3111
Delta R.T. 0.003 min
Lab File: VN069306.D
Acq: 29 Oct 2021 17:21

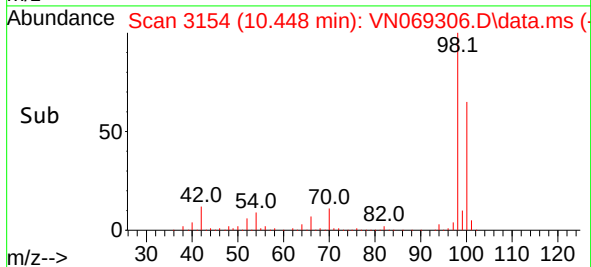
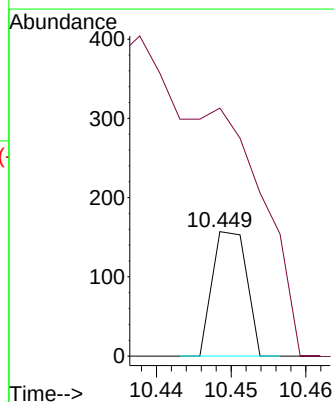
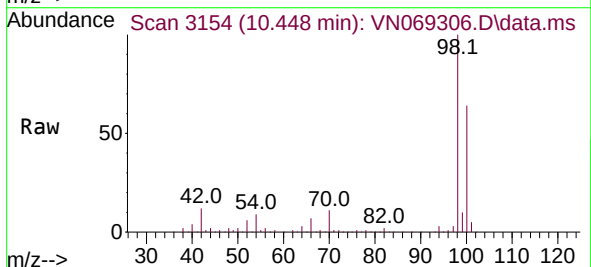
Instrument :
MSVOA_N
ClientSampleId :

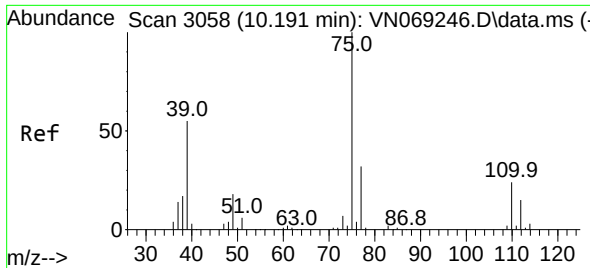
Tgt Ion: 43 Resp: 5281
Ion Ratio Lower Upper
43 100
58 48.2 31.0 46.4#



#53
t-1,3-Dichloropropene
Concen: 1.947 ug/l
RT: 10.448 min Scan# 3154
Delta R.T. -0.271 min
Lab File: VN069306.D
Acq: 29 Oct 2021 17:21

Tgt Ion: 75 Resp: 50
Ion Ratio Lower Upper
75 100
77 101.3 25.4 38.2#

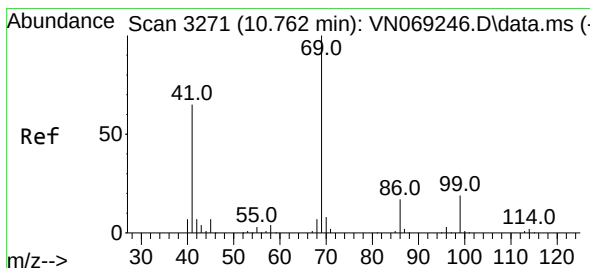
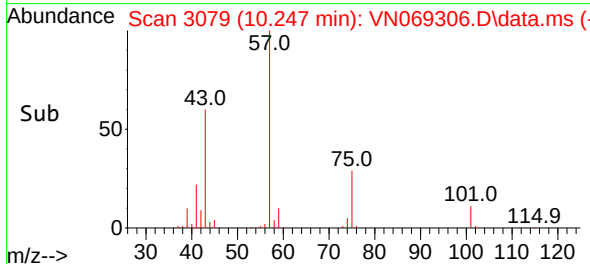
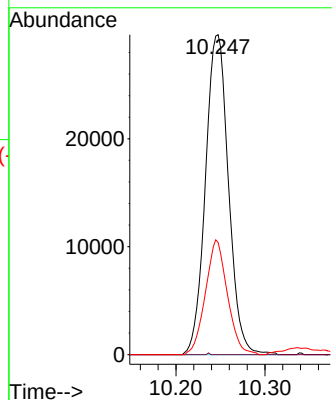
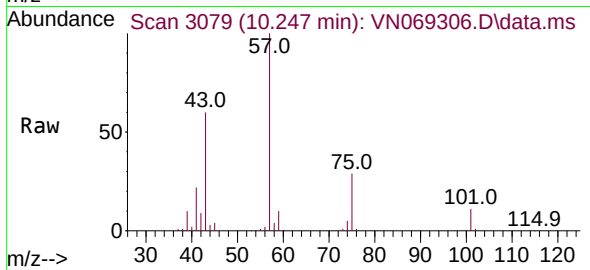




#54
cis-1,3-Dichloropropene
Concen: 9.672 ug/l
RT: 10.247 min Scan# 3058
Delta R.T. 0.056 min
Lab File: VN069306.D
Acq: 29 Oct 2021 17:21

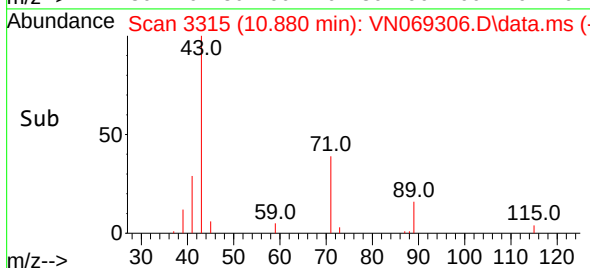
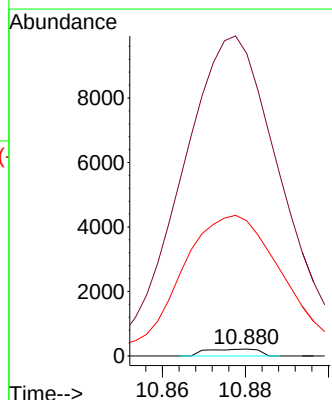
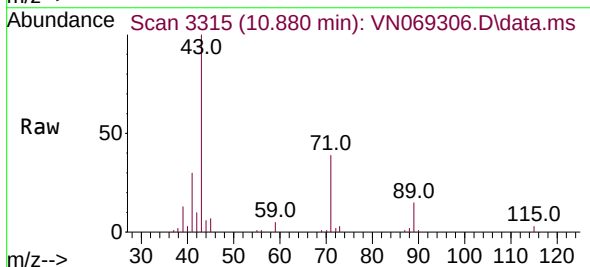
Instrument :
MSVOA_N
ClientSampleId :

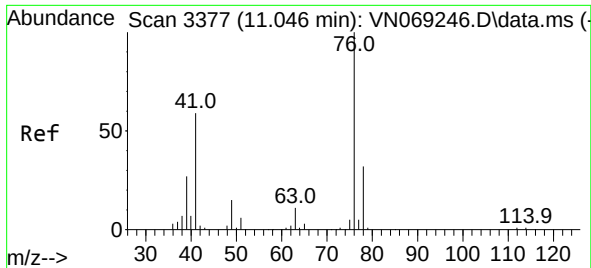
Tgt Ion: 75 Resp: 53299
Ion Ratio Lower Upper
75 100
77 0.0 25.6 38.4#
39 35.0 42.9 64.3#



#56
Ethyl methacrylate
Concen: 1.710 ug/l
RT: 10.880 min Scan# 3315
Delta R.T. 0.118 min
Lab File: VN069306.D
Acq: 29 Oct 2021 17:21

Tgt Ion: 69 Resp: 186
Ion Ratio Lower Upper
69 100
41 9282.3 53.3 79.9#
39 4234.9 33.3 49.9#

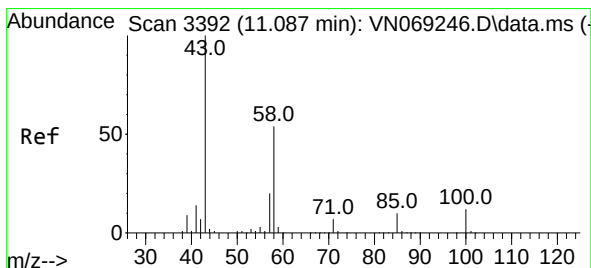
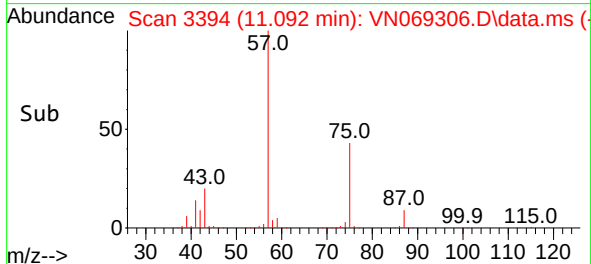
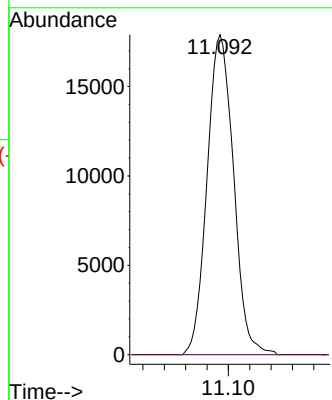
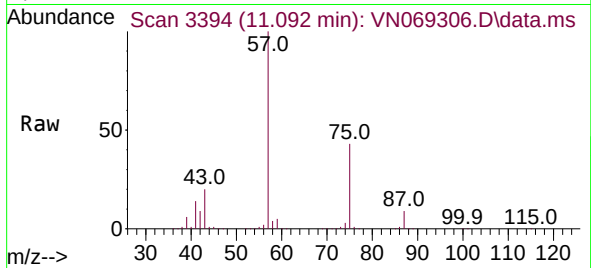




#57
1,3-Dichloropropane
Concen: 5.046 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.046 min
Lab File: VN069306.D
Acq: 29 Oct 2021 17:21

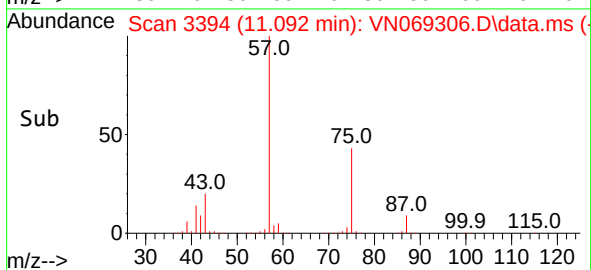
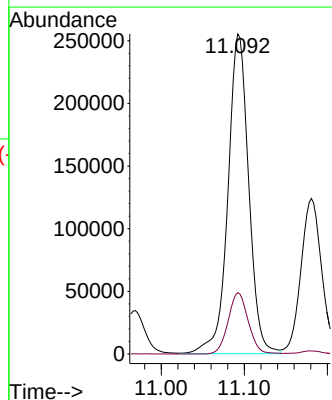
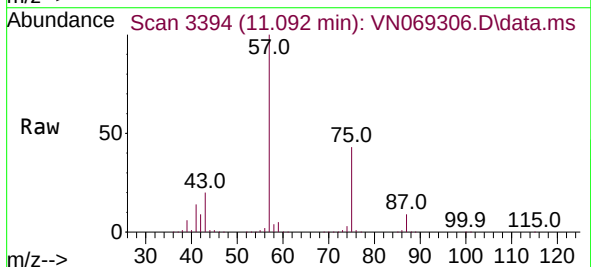
Instrument :
MSVOA_N
ClientSampleId :

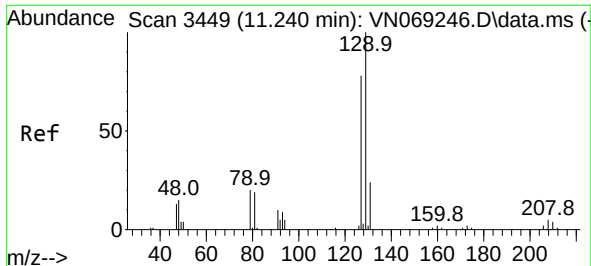
Tgt Ion: 76 Resp: 30806
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.8#



#59
2-Hexanone
Concen: 101.755 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.005 min
Lab File: VN069306.D
Acq: 29 Oct 2021 17:21

Tgt Ion: 43 Resp: 443030
Ion Ratio Lower Upper
43 100
58 18.5 26.9 80.7#

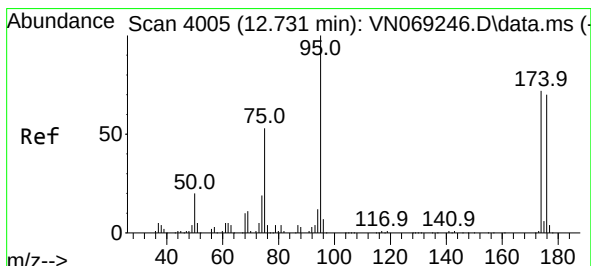
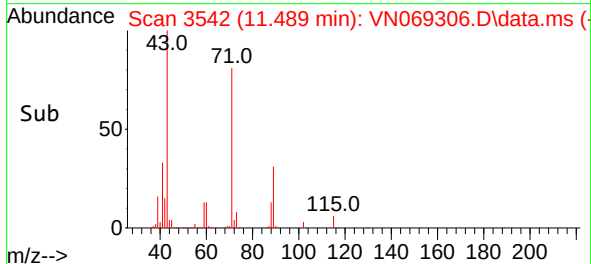
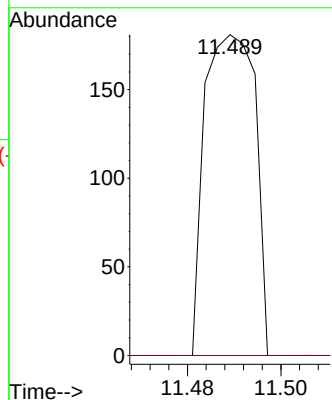
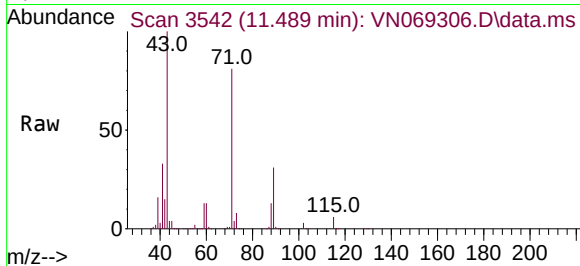




#60
Dibromochloromethane
Concen: 2.006 ug/l
RT: 11.489 min Scan# 311
Delta R.T. 0.249 min
Lab File: VN069306.D
Acq: 29 Oct 2021 17:21

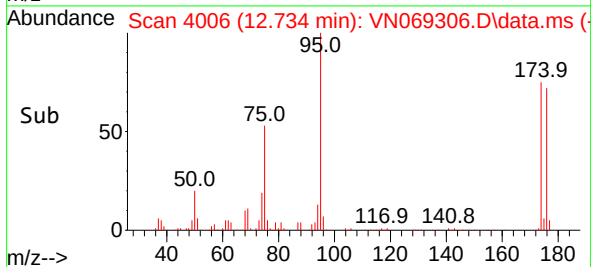
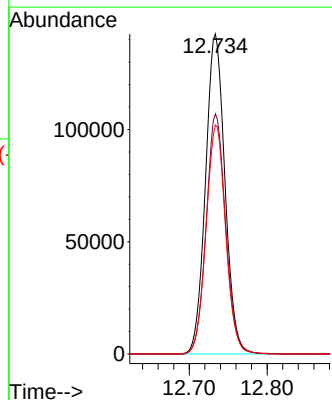
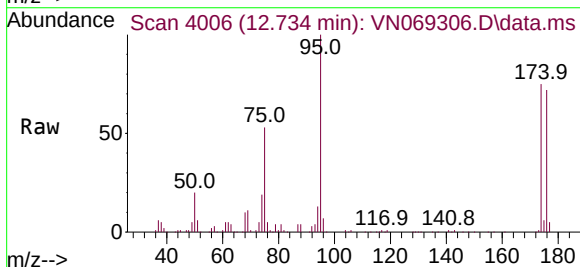
Instrument :
MSVOA_N
ClientSampleId :

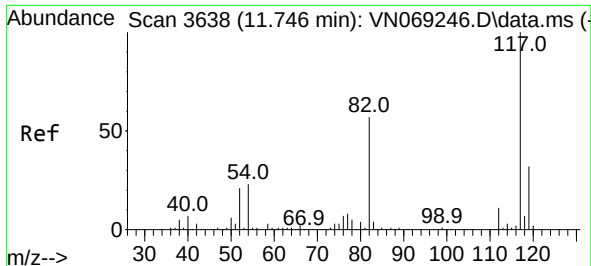
Tgt Ion:129 Resp: 136
Ion Ratio Lower Upper
129 100
127 0.0 39.1 117.2#



#62
4-Bromofluorobenzene
Concen: 49.075 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.003 min
Lab File: VN069306.D
Acq: 29 Oct 2021 17:21

Tgt Ion: 95 Resp: 247578
Ion Ratio Lower Upper
95 100
174 75.1 0.0 144.8
176 72.1 0.0 140.0

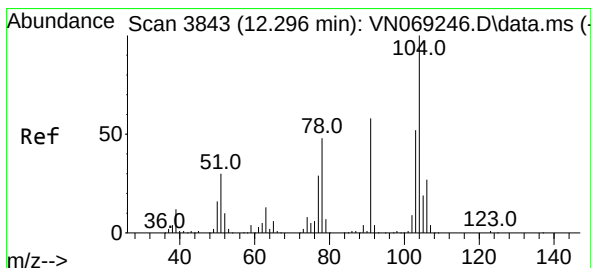
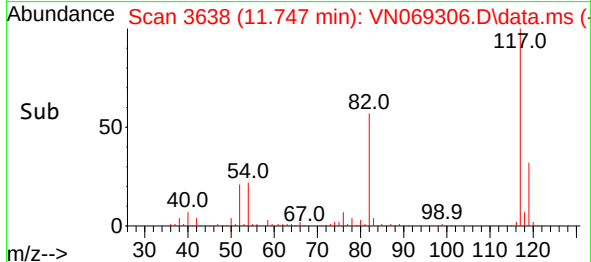
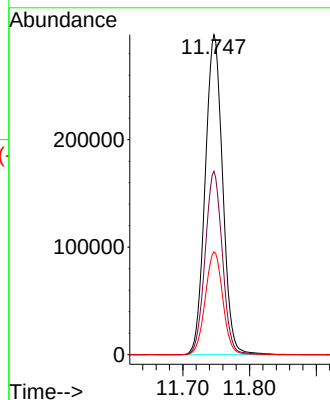
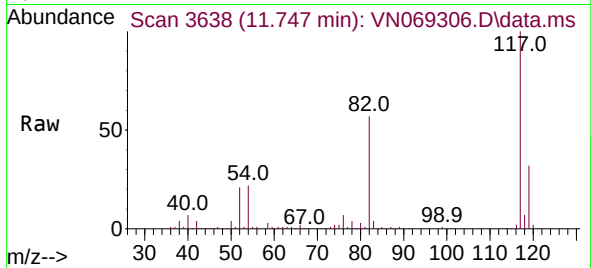




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.747 min Scan# 30
Delta R.T. 0.000 min
Lab File: VN069306.D
Acq: 29 Oct 2021 17:21

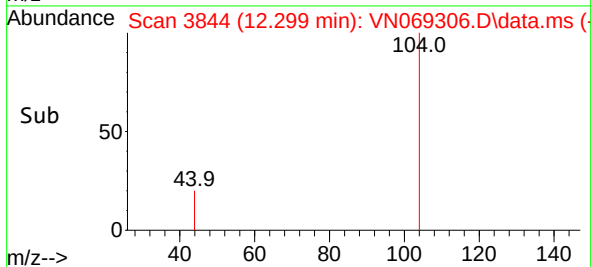
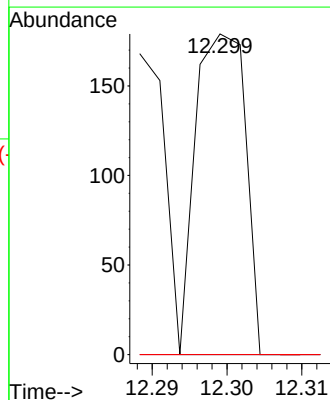
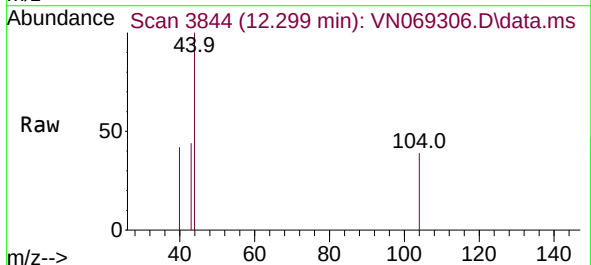
Instrument :
MSVOA_N
ClientSampleId :

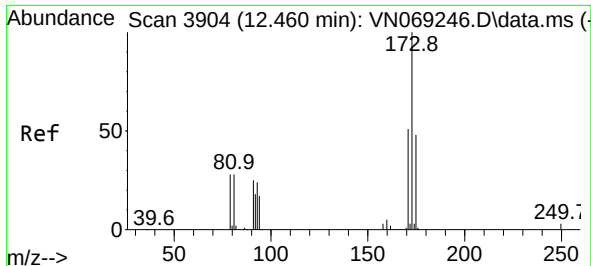
Tgt Ion:117 Resp: 541645
Ion Ratio Lower Upper
117 100
82 57.3 46.4 69.6
119 32.1 26.0 39.0



#70
Styrene
Concen: 1.462 ug/l
RT: 12.299 min Scan# 3844
Delta R.T. 0.003 min
Lab File: VN069306.D
Acq: 29 Oct 2021 17:21

Tgt Ion:104 Resp: 83
Ion Ratio Lower Upper
104 100
78 0.0 42.2 63.4#
103 0.0 44.4 66.6#

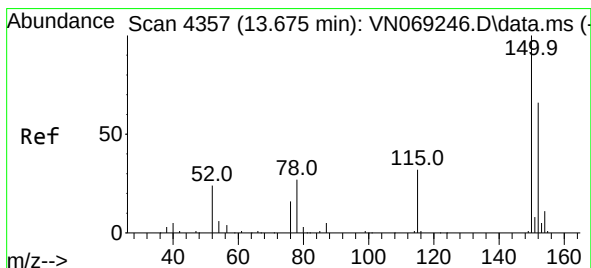
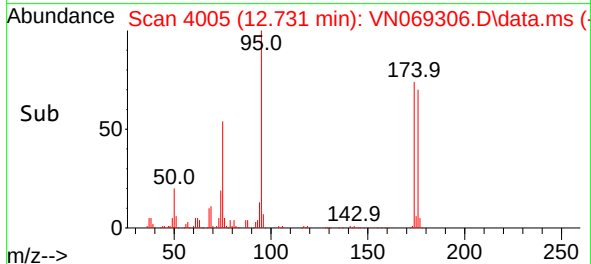
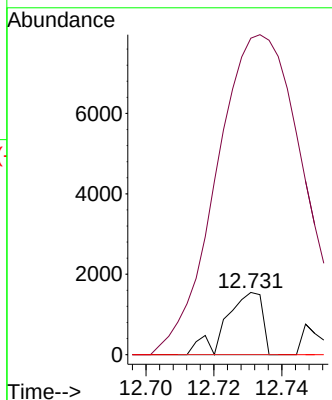
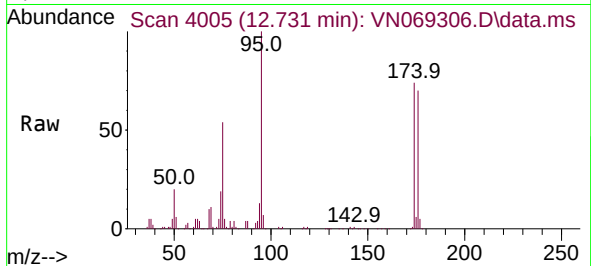




#71
Bromoform
Concen: 3.198 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.271 min
Lab File: VN069306.D
Acq: 29 Oct 2021 17:21

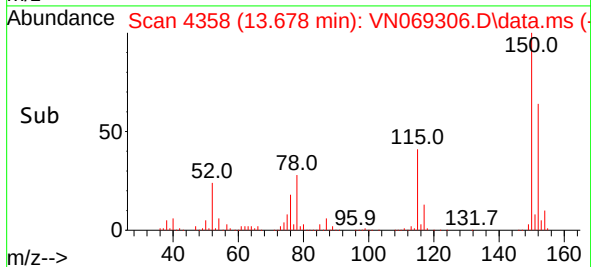
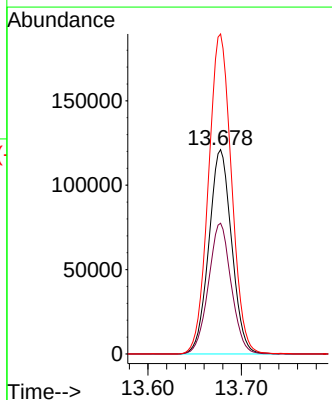
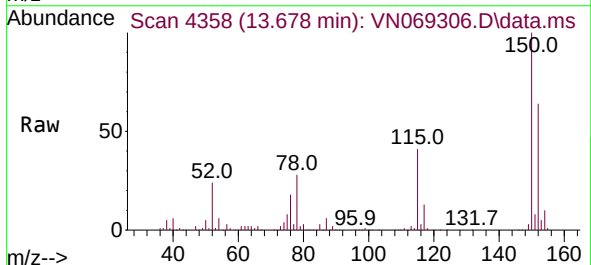
Instrument :
MSVOA_N
ClientSampleId :

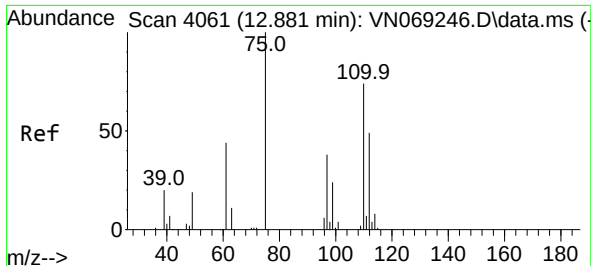
Tgt Ion:173 Resp: 1156
Ion Ratio Lower Upper
173 100
175 1144.9 23.8 71.5#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.678 min Scan# 4358
Delta R.T. 0.003 min
Lab File: VN069306.D
Acq: 29 Oct 2021 17:21

Tgt Ion:152 Resp: 205666
Ion Ratio Lower Upper
152 100
115 63.8 31.4 94.3
150 158.5 0.0 351.0

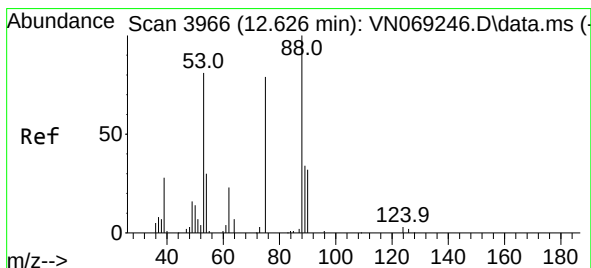
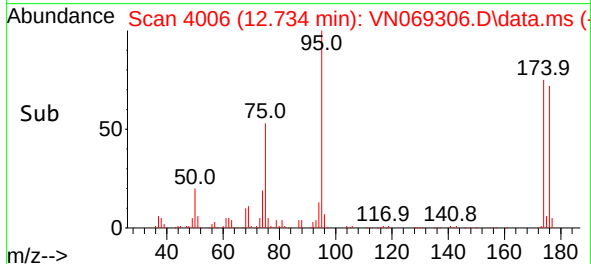
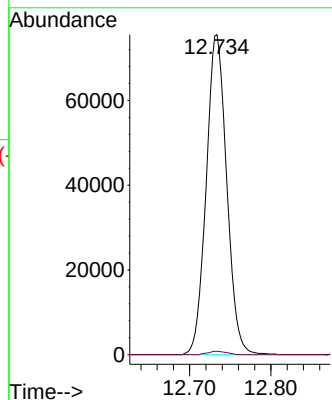
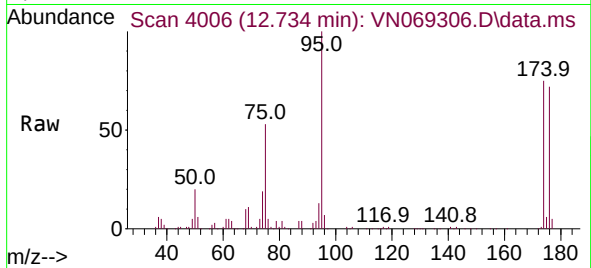




#76
1,2,3-Trichloropropane
Concen: 24.462 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. -0.147 min
Lab File: VN069306.D
Acq: 29 Oct 2021 17:21

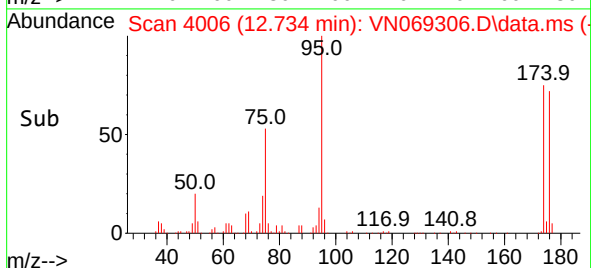
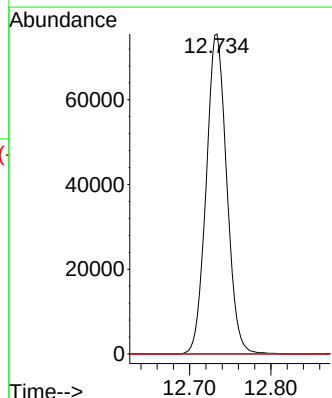
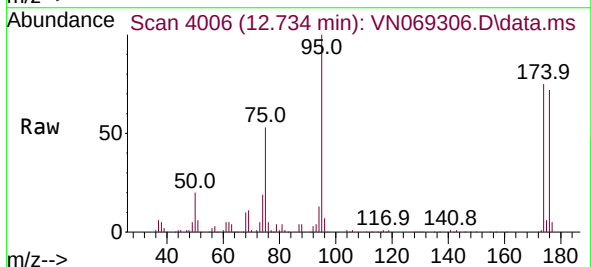
Instrument :
MSVOA_N
ClientSampleId :

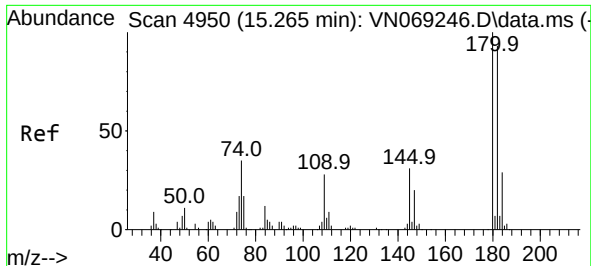
Tgt Ion: 75 Resp: 132318
Ion Ratio Lower Upper
75 100
77 1.0 96.2 288.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 70.154 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.108 min
Lab File: VN069306.D
Acq: 29 Oct 2021 17:21

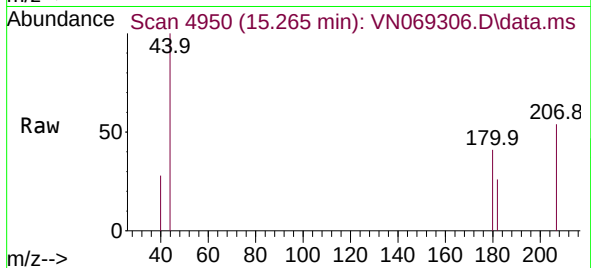
Tgt Ion: 75 Resp: 132318
Ion Ratio Lower Upper
75 100
53 0.0 75.4 113.2#
89 0.0 36.9 55.3#



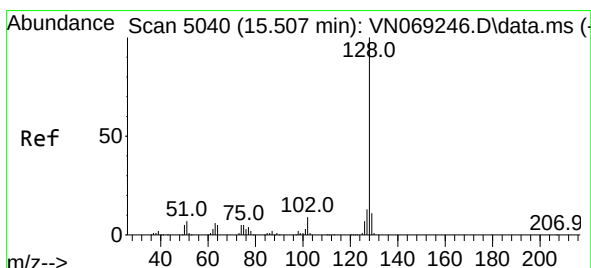
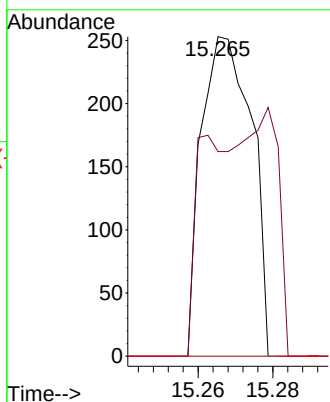
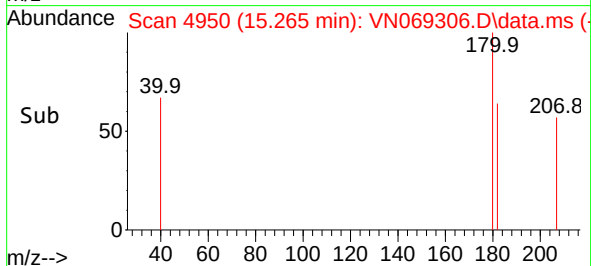


#93
1,2,4-Trichlorobenzene
Concen: 2.555 ug/l
RT: 15.265 min Scan# 4950
Delta R.T. 0.000 min
Lab File: VN069306.D
Acq: 29 Oct 2021 17:21

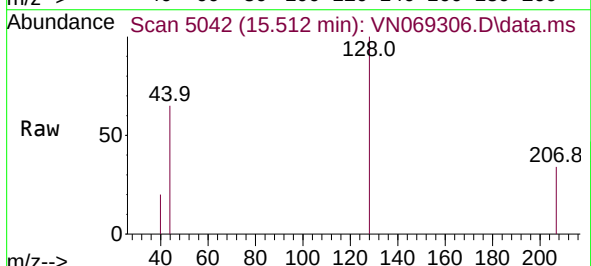
Instrument :
MSVOA_N
ClientSampleId :



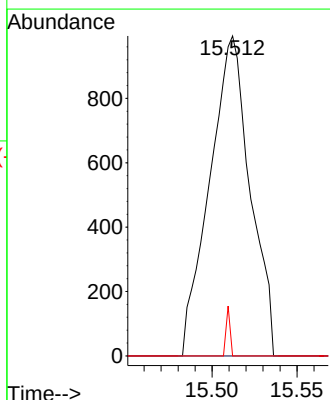
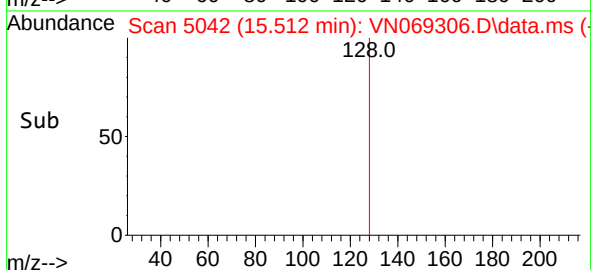
Tgt Ion:180 Resp: 236
Ion Ratio Lower Upper
180 100
182 45.8 47.9 143.7#
145 0.0 16.4 49.2#

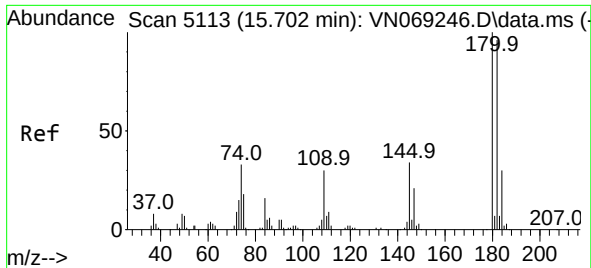


#95
Naphthalene
Concen: 3.458 ug/l
RT: 15.512 min Scan# 5042
Delta R.T. 0.005 min
Lab File: VN069306.D
Acq: 29 Oct 2021 17:21



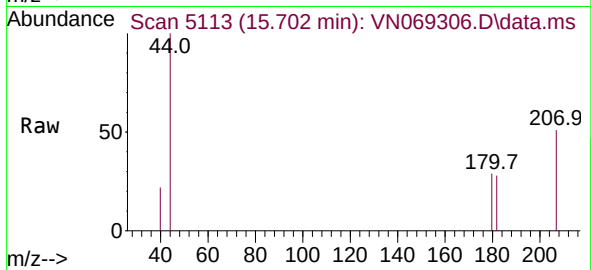
Tgt Ion:128 Resp: 1649
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 1.5 8.9 13.3#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.285 ug/l
 RT: 15.702 min Scan# 5113
 Delta R.T. 0.000 min
 Lab File: VN069306.D
 Acq: 29 Oct 2021 17:21

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	266
Ion	Ratio	Lower	Upper
180	100		
182	58.3	48.1	144.3
145	0.0	17.4	52.2#

