

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120921\
 Data File : VN069951.D
 Acq On : 10 Dec 2021 8:52
 Operator : JC/MD
 Sample : M4967-11
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-11S

Quant Time: Dec 10 11:27:34 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N120221W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 03 08:46:47 2021
 Response via : Initial Calibration

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

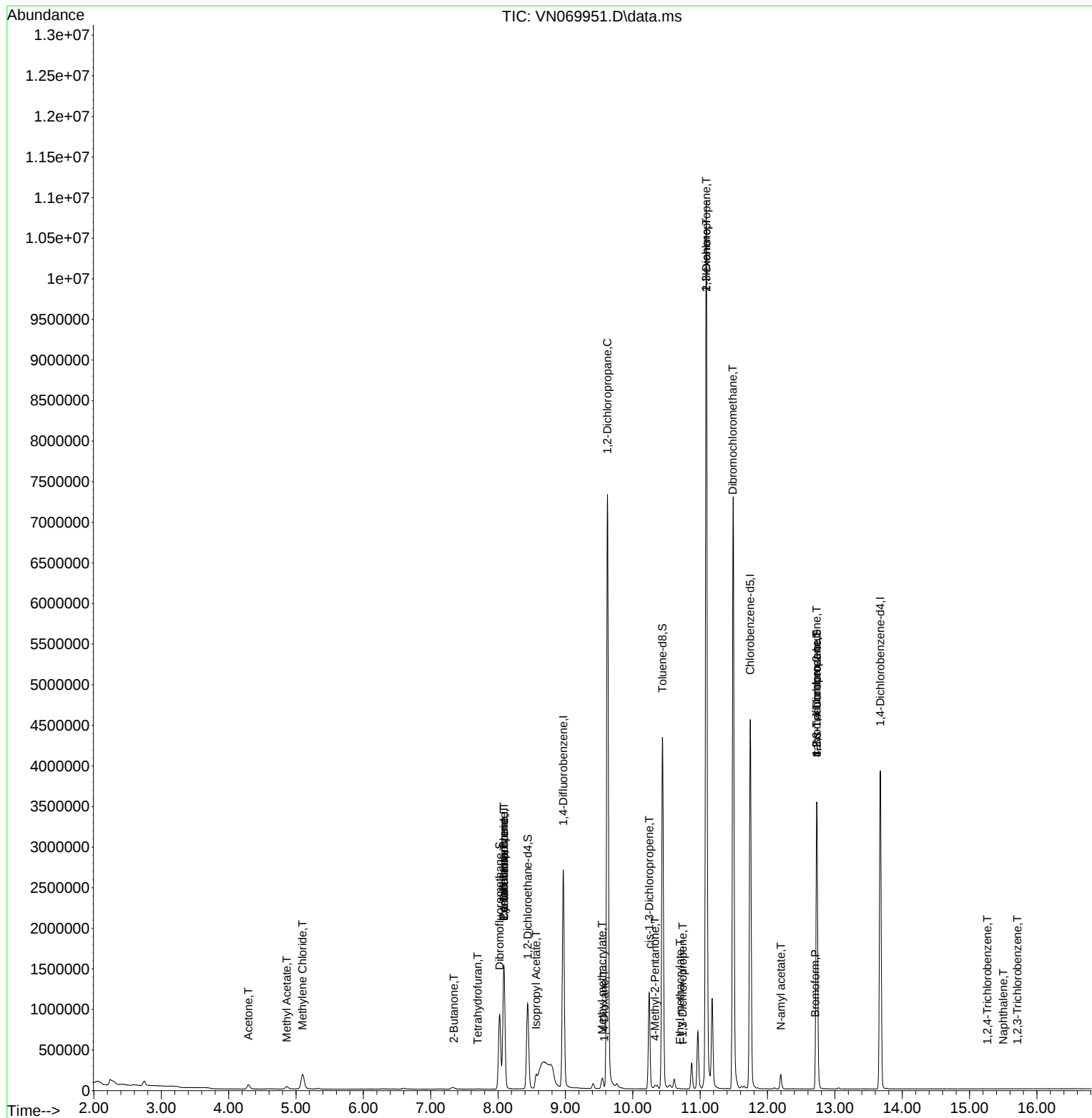
Internal Standards						
1) Pentafluorobenzene	8.086	168	1117905	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	2194386	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.744	117	2519960	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.675	152	1034792	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	912950	52.893	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 105.780%			
35) Dibromofluoromethane	8.024	113	670051	48.748	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 97.500%			
50) Toluene-d8	10.440	98	2909546	52.717	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 105.440%			
62) 4-Bromofluorobenzene	12.731	95	1217286	60.881	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 121.760%			
Target Compounds						
					Qvalue	
16) Acetone	4.293	43	99072	9.542	ug/l	97
18) Methyl Acetate	4.864	43	65022	2.075	ug/l	92
20) Methylene Chloride	5.095	84	135645	9.827	ug/l #	83
25) 2-Butanone	7.343	43	16545	1.173	ug/l	95
29) Tetrahydrofuran	7.697	42	1870	0.218	ug/l #	84
31) Cyclohexane	8.086	56	28819	1.200	ug/l #	32
36) 1,1-Dichloropropene	8.086	75	97426	4.664	ug/l #	48
38) Carbon Tetrachloride	8.086	117	117720	5.747	ug/l #	16
43) Isopropyl Acetate	8.566	43	187577	4.077	ug/l #	80
45) 1,2-Dichloropropane	9.622	63	8369	0.488	ug/l #	44
48) Methyl methacrylate	9.545	41	40912	1.905	ug/l #	8
49) 1,4-Dioxane	9.577	88	91	0.236	ug/l #	27
51) 4-Methyl-2-Pentanone	10.330	43	22988	0.770	ug/l	94
53) t-1,3-Dichloropropene	10.741	75	25	2.795	ug/l #	43
54) cis-1,3-Dichloropropene	10.245	75	190133	8.789	ug/l #	71
56) Ethyl methacrylate	10.700	69	590	2.298	ug/l #	1
57) 1,3-Dichloropropane	11.089	76	106815	3.857	ug/l #	44
59) 2-Hexanone	11.092	43	1934136	85.659	ug/l #	47
60) Dibromochloromethane	11.486	129	587	2.409	ug/l #	11
71) Bromoform	12.707	173	251	2.746	ug/l #	29
74) N-amyl acetate	12.197	43	66508	1.633	ug/l #	50
76) 1,2,3-Trichloropropane	12.731	75	679724	22.905	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.731	75	679724	72.938	ug/l #	5
93) 1,2,4-Trichlorobenzene	15.262	180	150	2.886	ug/l #	67
95) Naphthalene	15.501	128	1862	4.019	ug/l #	75
96) 1,2,3-Trichlorobenzene	15.710	180	50	2.438	ug/l #	56

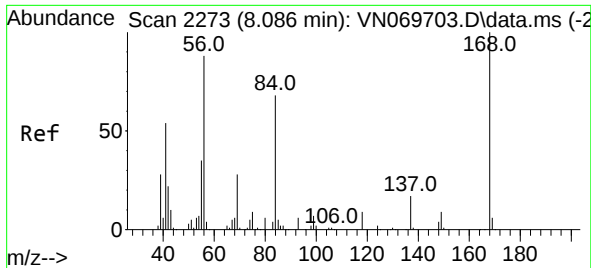
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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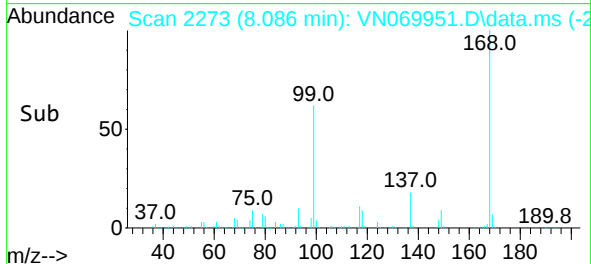
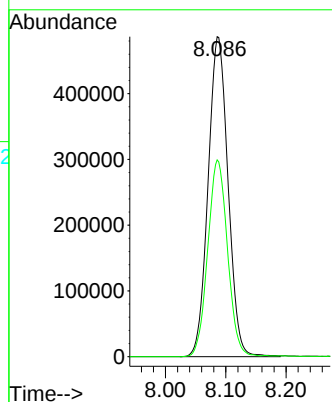
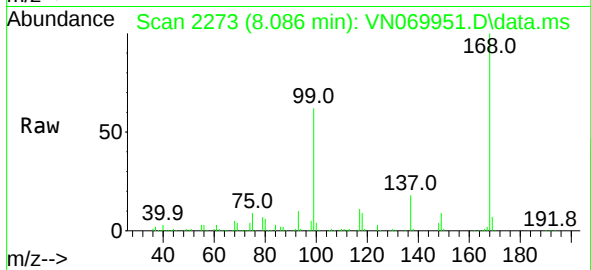




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.086 min Scan# 211
Delta R.T. -0.000 min
Lab File: VN069951.D
Acq: 10 Dec 2021 8:52

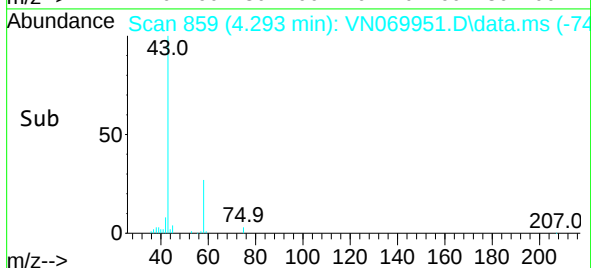
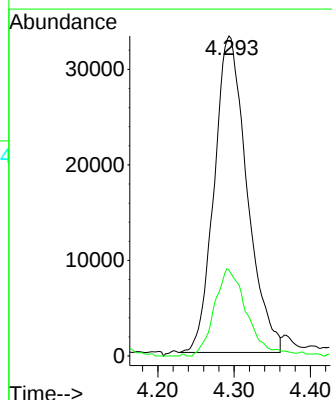
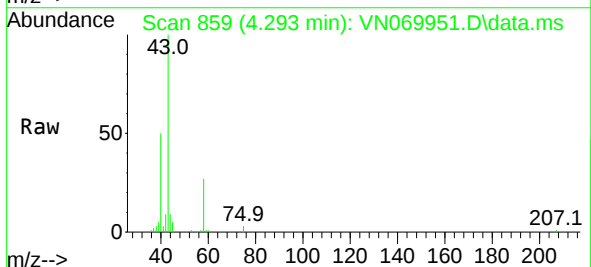
Instrument :
MSVOA_N
ClientSampleId :
TP-11S

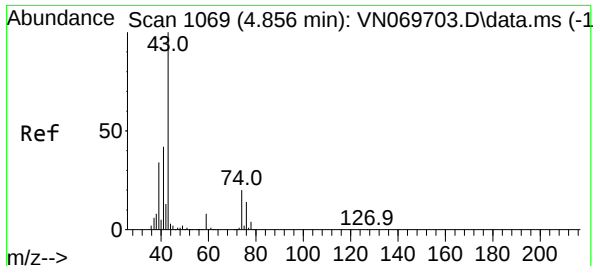
Tgt Ion:168 Resp: 1117905
Ion Ratio Lower Upper
168 100
99 61.5 41.3 61.9



#16
Acetone
Concen: 9.542 ug/l
RT: 4.293 min Scan# 859
Delta R.T. 0.003 min
Lab File: VN069951.D
Acq: 10 Dec 2021 8:52

Tgt Ion: 43 Resp: 99072
Ion Ratio Lower Upper
43 100
58 27.2 23.1 34.7





#18

Methyl Acetate

Concen: 2.075 ug/l

RT: 4.864 min Scan# 1069

Delta R.T. 0.008 min

Lab File: VN069951.D

Acq: 10 Dec 2021 8:52

Instrument :

MSVOA_N

ClientSampleId :

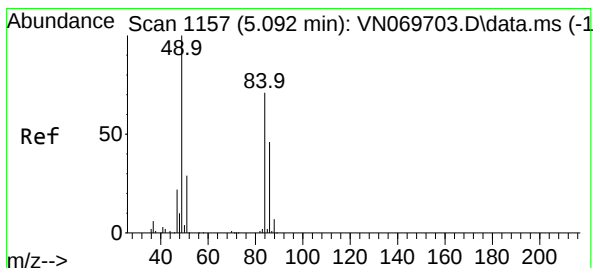
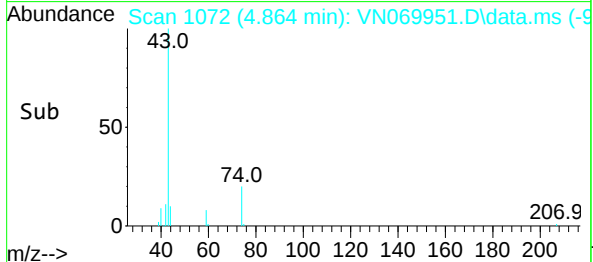
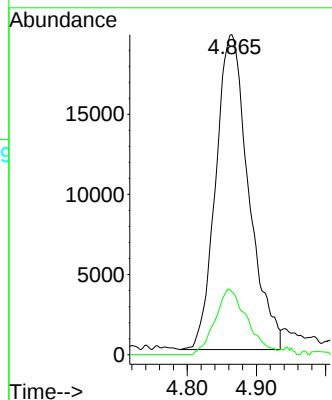
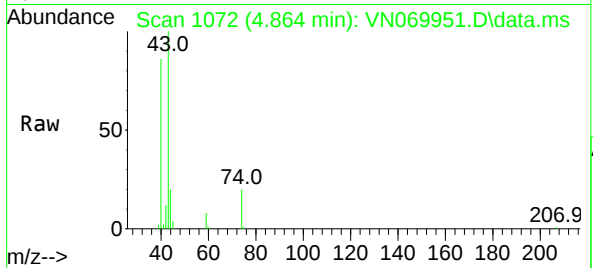
TP-11S

Tgt Ion: 43 Resp: 65022

Ion Ratio Lower Upper

43 100

74 20.4 19.4 29.2



#20

Methylene Chloride

Concen: 9.827 ug/l

RT: 5.095 min Scan# 1158

Delta R.T. 0.003 min

Lab File: VN069951.D

Acq: 10 Dec 2021 8:52

Tgt Ion: 84 Resp: 135645

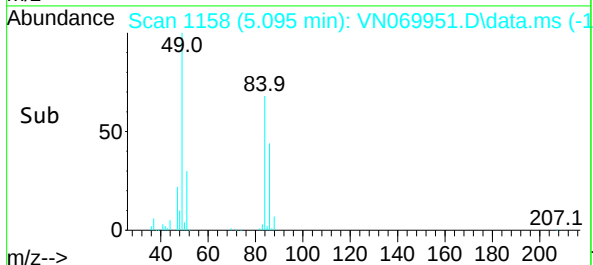
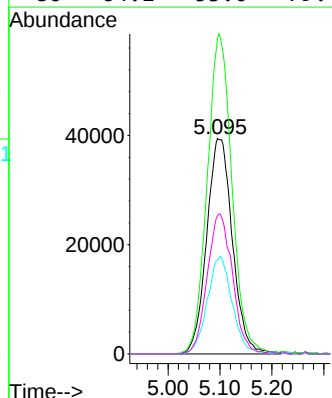
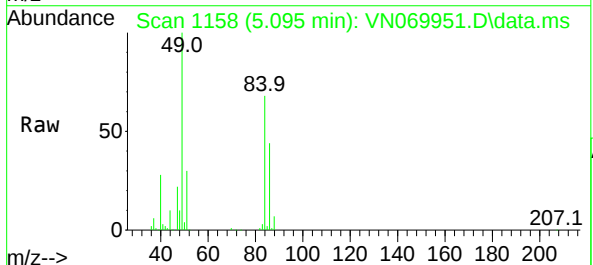
Ion Ratio Lower Upper

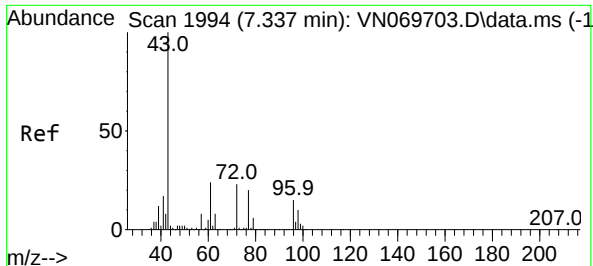
84 100

49 146.0 93.5 140.3#

51 43.6 29.4 44.2

86 64.1 53.0 79.4





#25

2-Butanone

Concen: 1.173 ug/l

RT: 7.343 min Scan# 1994

Delta R.T. 0.005 min

Lab File: VN069951.D

Acq: 10 Dec 2021 8:52

Instrument :

MSVOA_N

ClientSampleId :

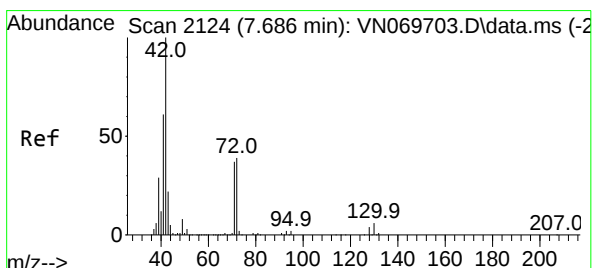
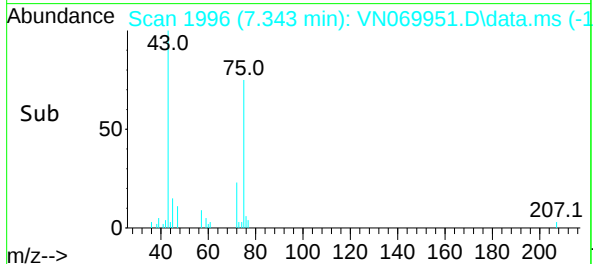
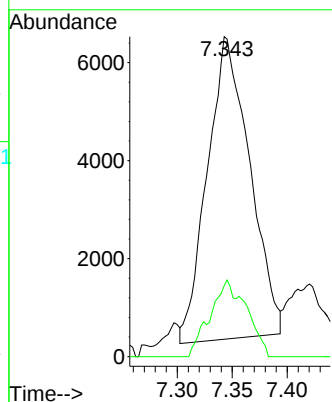
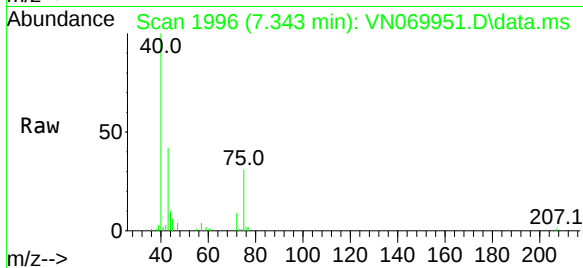
TP-11S

Tgt Ion: 43 Resp: 16545

Ion Ratio Lower Upper

43 100

72 24.3 21.7 32.5



#29

Tetrahydrofuran

Concen: 0.218 ug/l

RT: 7.697 min Scan# 2128

Delta R.T. 0.011 min

Lab File: VN069951.D

Acq: 10 Dec 2021 8:52

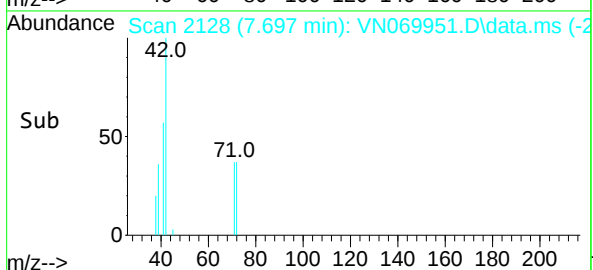
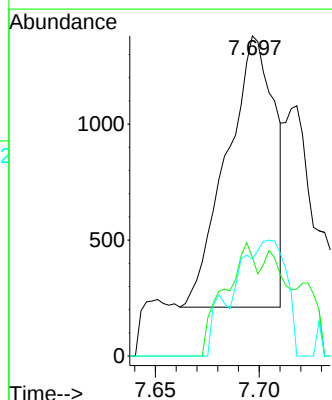
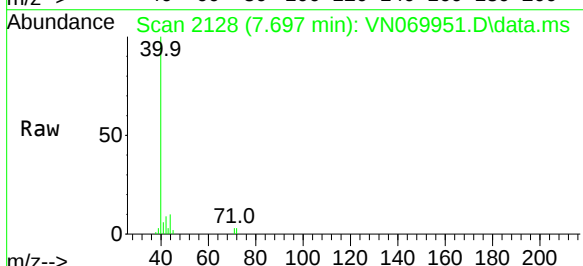
Tgt Ion: 42 Resp: 1870

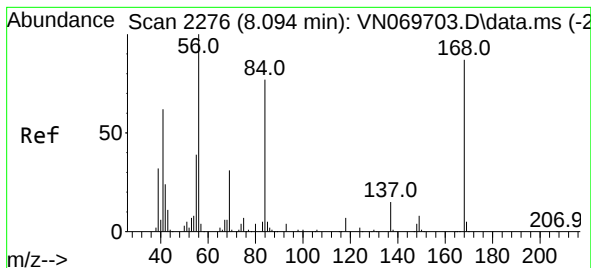
Ion Ratio Lower Upper

42 100

72 28.2 36.3 54.5#

71 39.7 34.7 52.1





#31

Cyclohexane

Concen: 1.200 ug/l

RT: 8.086 min Scan# 21

Delta R.T. -0.008 min

Lab File: VN069951.D

Acq: 10 Dec 2021 8:52

Instrument :

MSVOA_N

ClientSampleId :

TP-11S

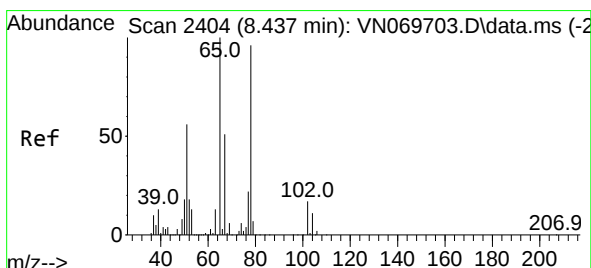
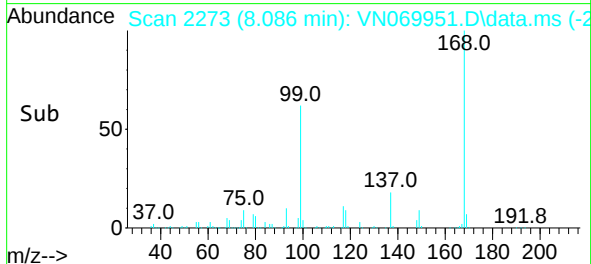
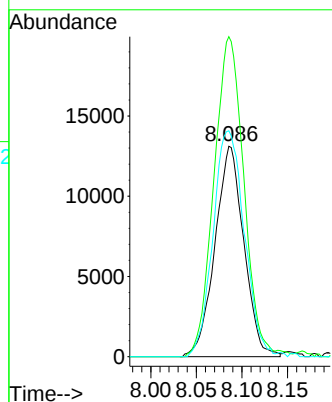
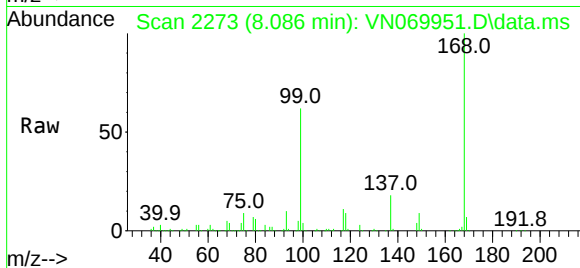
Tgt Ion: 56 Resp: 28819

Ion Ratio Lower Upper

56 100

69 152.1 27.1 40.7#

84 107.4 73.4 110.0



#33

1,2-Dichloroethane-d4

Concen: 52.893 ug/l

RT: 8.440 min Scan# 2405

Delta R.T. 0.003 min

Lab File: VN069951.D

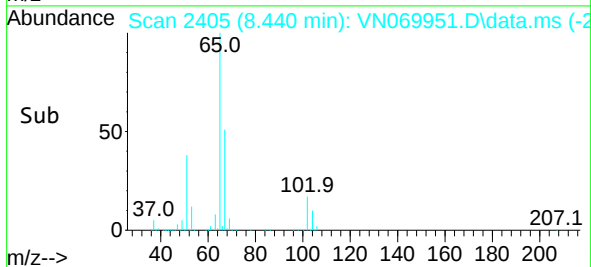
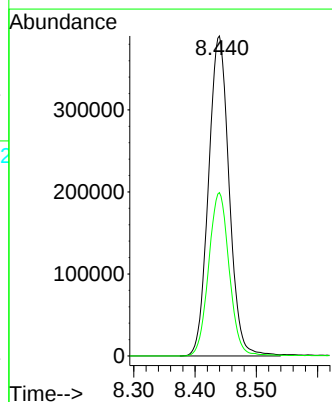
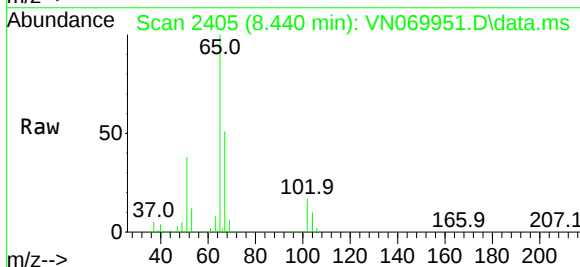
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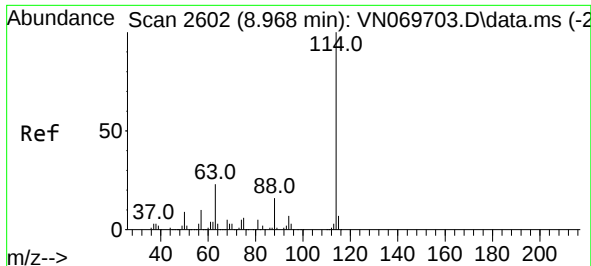
Tgt Ion: 65 Resp: 912950

Ion Ratio Lower Upper

65 100

67 51.0 0.0 103.0

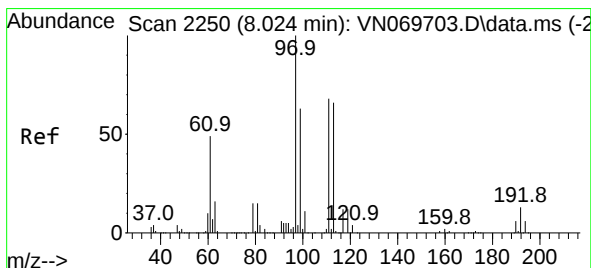
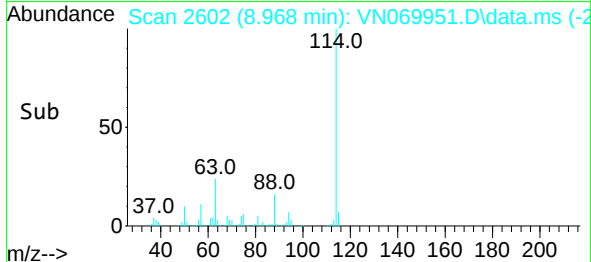
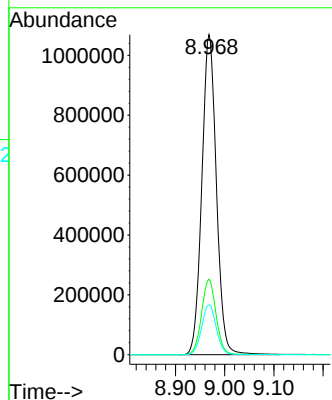
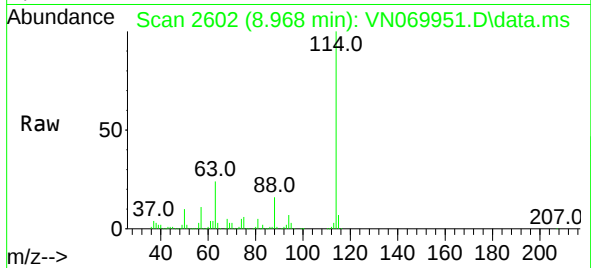




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.968 min Scan# 2602
 Delta R.T. -0.000 min
 Lab File: VN069951.D
 Acq: 10 Dec 2021 8:52

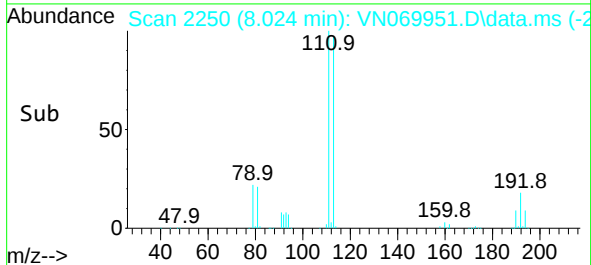
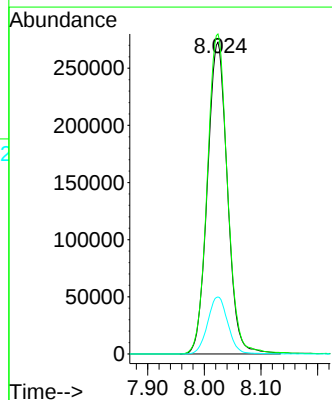
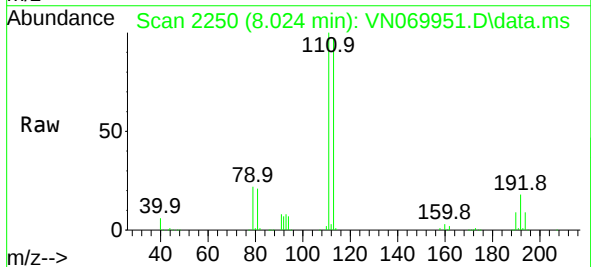
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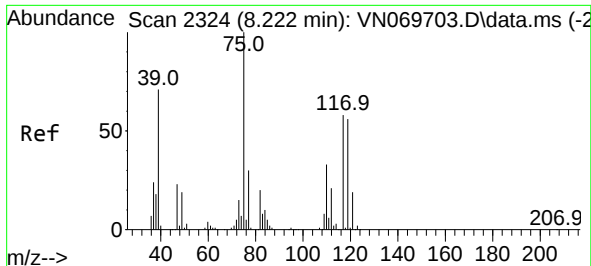
Tgt Ion:114 Resp: 2194386
 Ion Ratio Lower Upper
 114 100
 63 23.6 0.0 37.8
 88 15.6 0.0 27.4



#35
 Dibromofluoromethane
 Concen: 48.748 ug/l
 RT: 8.024 min Scan# 2250
 Delta R.T. 0.000 min
 Lab File: VN069951.D
 Acq: 10 Dec 2021 8:52

Tgt Ion:113 Resp: 670051
 Ion Ratio Lower Upper
 113 100
 111 103.8 82.2 123.2
 192 18.5 16.9 25.3

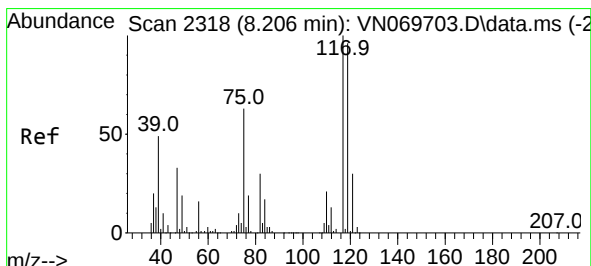
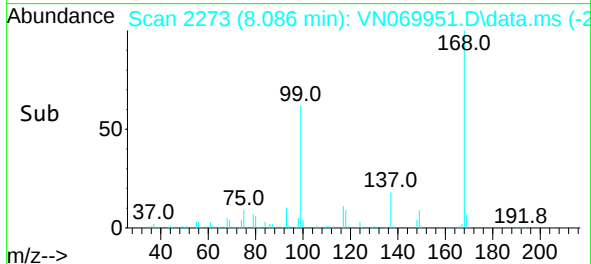
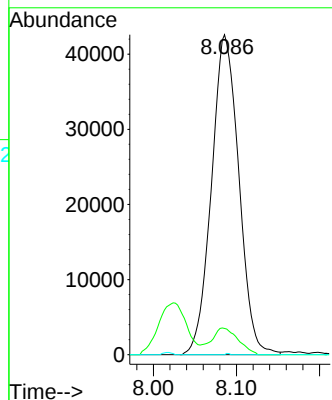
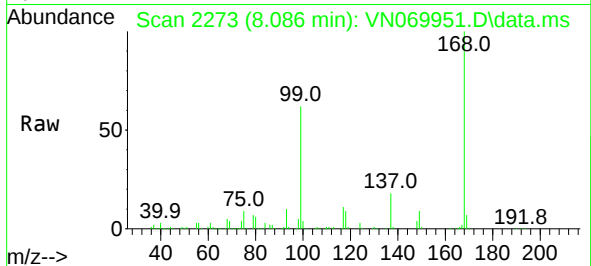




#36
1,1-Dichloropropene
Concen: 4.664 ug/l
RT: 8.086 min Scan# 211
Delta R.T. -0.137 min
Lab File: VN069951.D
Acq: 10 Dec 2021 8:52

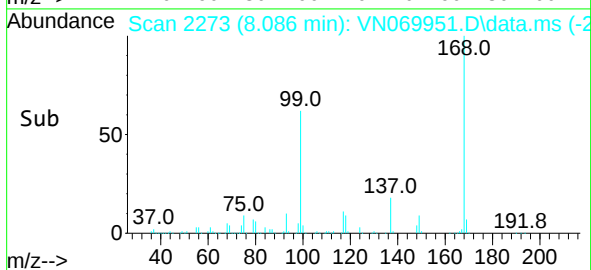
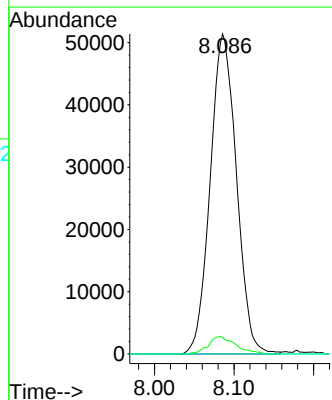
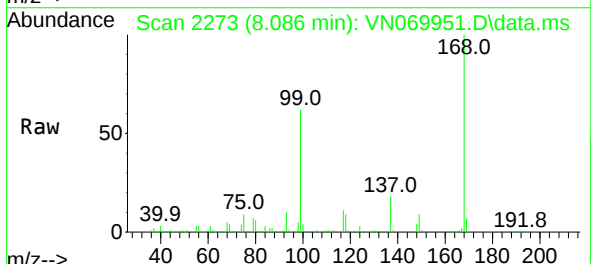
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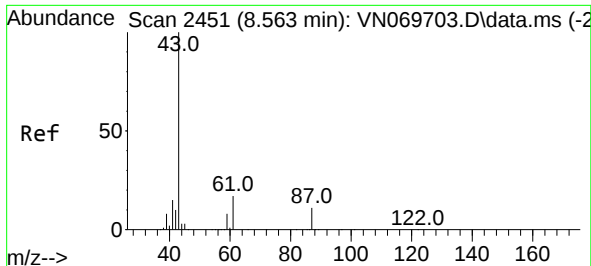
Tgt Ion: 75 Resp: 97426
Ion Ratio Lower Upper
75 100
110 7.6 18.4 55.2#
77 0.1 24.4 36.6#



#38
Carbon Tetrachloride
Concen: 5.747 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.121 min
Lab File: VN069951.D
Acq: 10 Dec 2021 8:52

Tgt Ion: 117 Resp: 117720
Ion Ratio Lower Upper
117 100
119 5.1 76.1 114.1#
121 0.0 24.2 36.2#

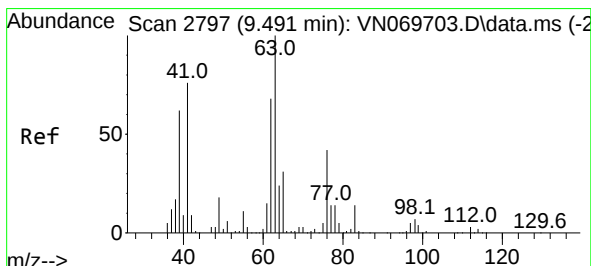
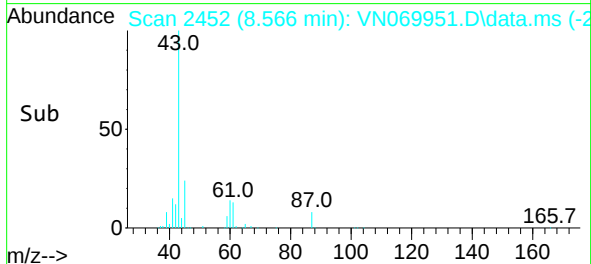
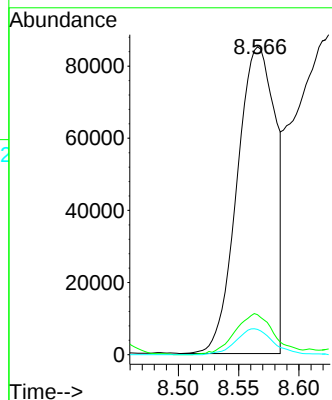
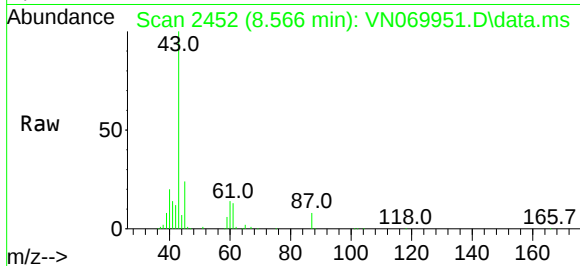




#43
Isopropyl Acetate
Concen: 4.077 ug/l
RT: 8.566 min Scan# 2451
Delta R.T. 0.003 min
Lab File: VN069951.D
Acq: 10 Dec 2021 8:52

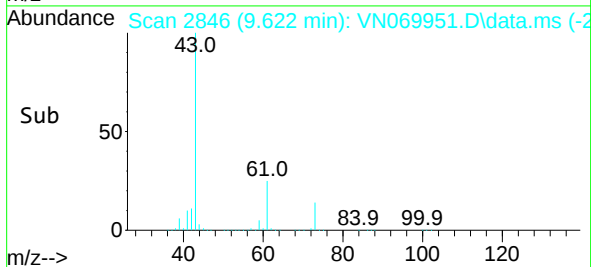
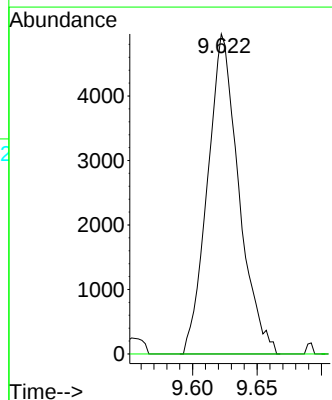
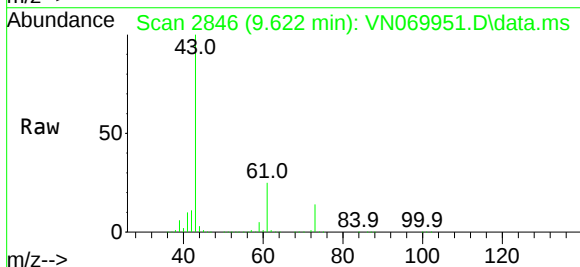
Instrument :
MSVOA_N
ClientSampleId :
TP-11S

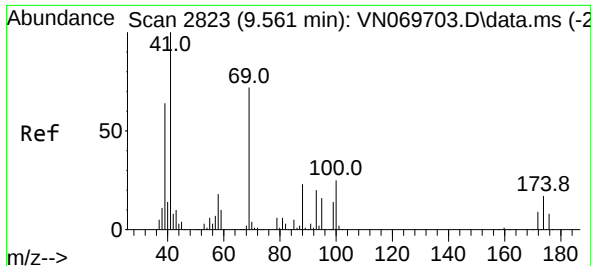
Tgt Ion: 43 Resp: 187577
Ion Ratio Lower Upper
43 100
61 13.8 20.4 30.6#
87 8.2 11.2 16.8#



#45
1,2-Dichloropropane
Concen: 0.488 ug/l
RT: 9.622 min Scan# 2846
Delta R.T. 0.131 min
Lab File: VN069951.D
Acq: 10 Dec 2021 8:52

Tgt Ion: 63 Resp: 8369
Ion Ratio Lower Upper
63 100
65 0.0 24.7 37.1#

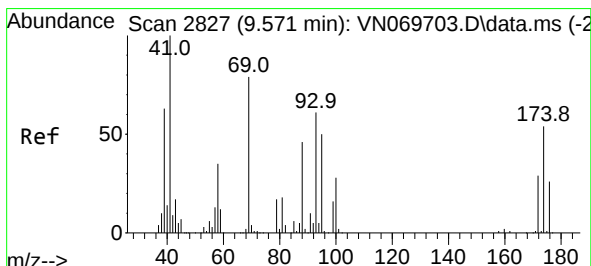
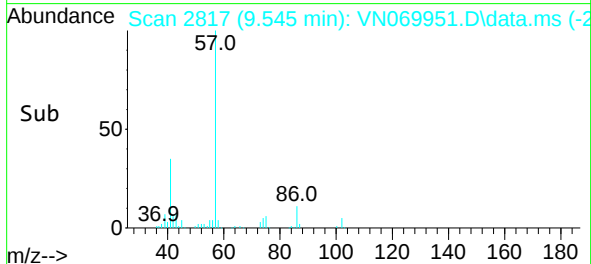
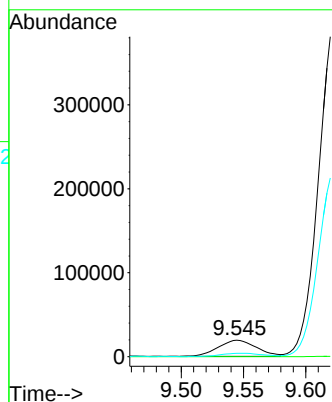
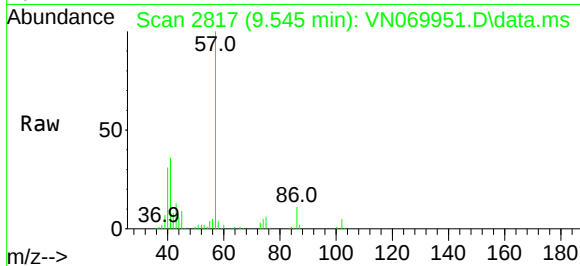




#48
Methyl methacrylate
Concen: 1.905 ug/l
RT: 9.545 min Scan# 2817
Delta R.T. -0.016 min
Lab File: VN069951.D
Acq: 10 Dec 2021 8:52

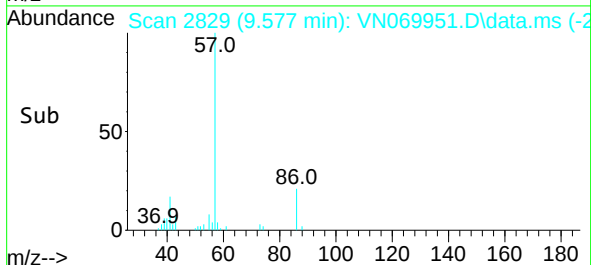
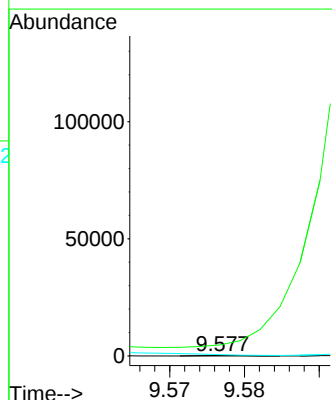
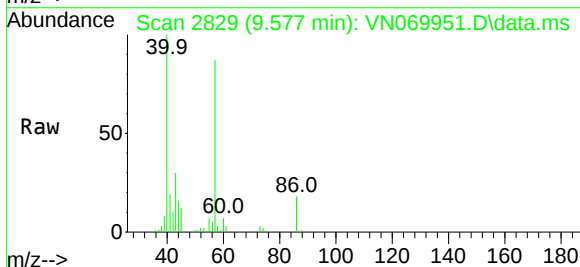
Instrument :
MSVOA_N
ClientSampleId :
TP-11S

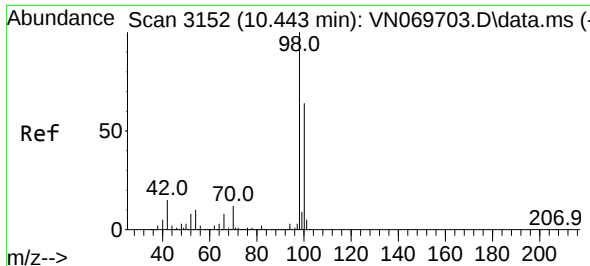
Tgt Ion: 41 Resp: 40912
Ion Ratio Lower Upper
41 100
69 0.0 72.4 108.6#
39 0.0 58.4 87.6#



#49
1,4-Dioxane
Concen: 0.236 ug/l
RT: 9.577 min Scan# 2829
Delta R.T. 0.005 min
Lab File: VN069951.D
Acq: 10 Dec 2021 8:52

Tgt Ion: 88 Resp: 91
Ion Ratio Lower Upper
88 100
43 0.0 23.4 35.2#
58 0.0 50.6 75.8#

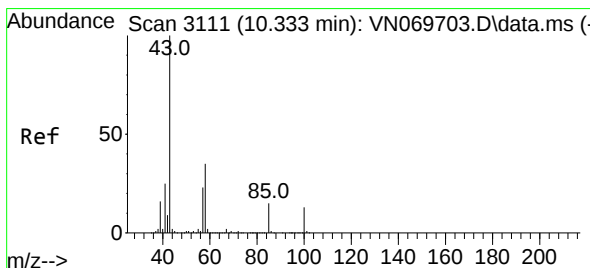
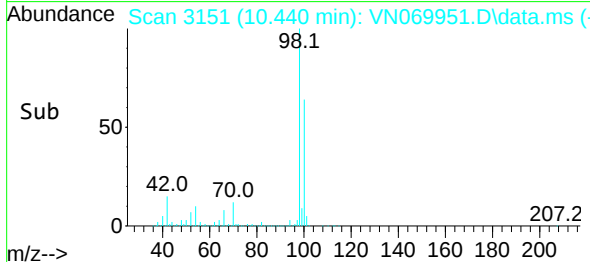
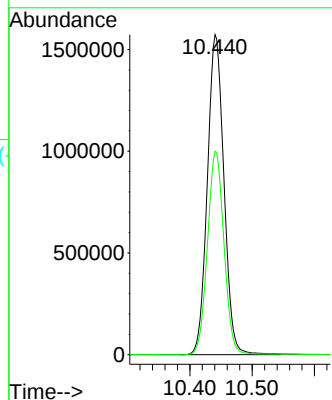
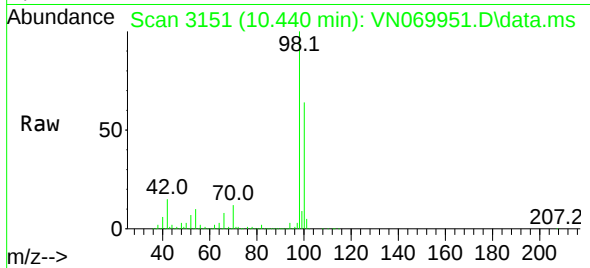




#50
Toluene-d8
Concen: 52.717 ug/l
RT: 10.440 min Scan# 3152
Delta R.T. -0.003 min
Lab File: VN069951.D
Acq: 10 Dec 2021 8:52

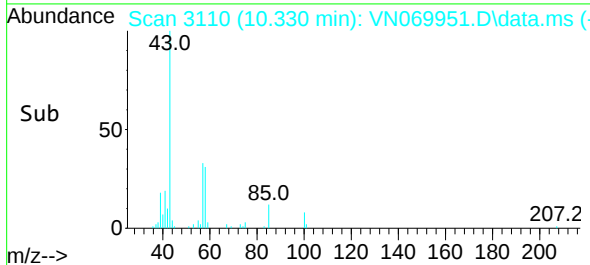
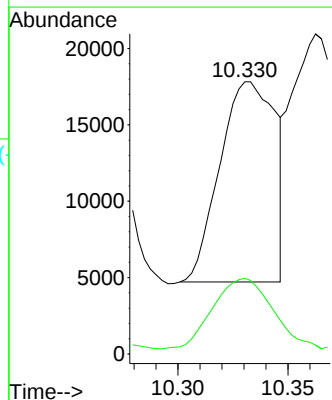
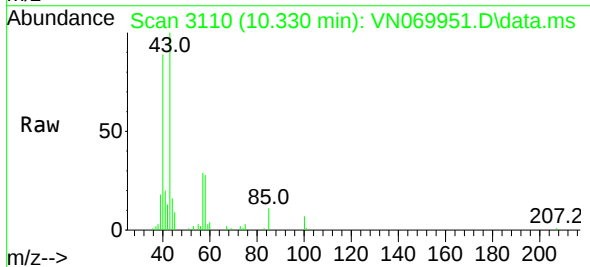
Instrument :
MSVOA_N
ClientSampleId :
TP-11S

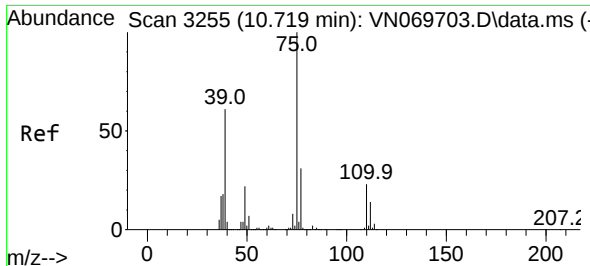
Tgt Ion: 98 Resp: 2909546
Ion Ratio Lower Upper
98 100
100 63.5 50.4 75.6



#51
4-Methyl-2-Pentanone
Concen: 0.770 ug/l
RT: 10.330 min Scan# 3110
Delta R.T. -0.003 min
Lab File: VN069951.D
Acq: 10 Dec 2021 8:52

Tgt Ion: 43 Resp: 22988
Ion Ratio Lower Upper
43 100
58 41.9 30.4 45.6

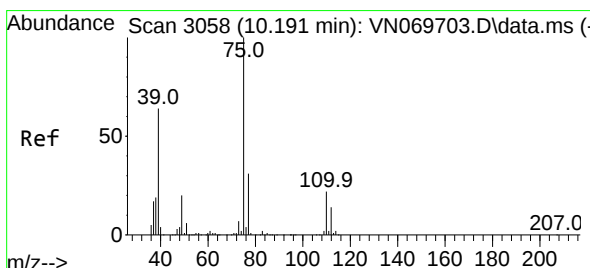
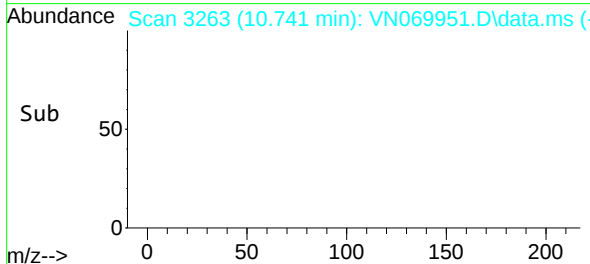
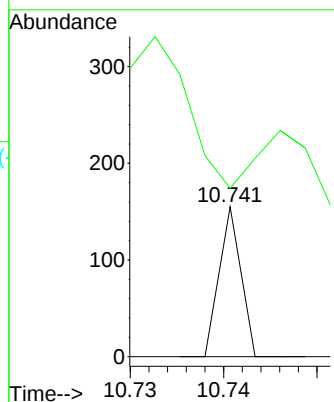
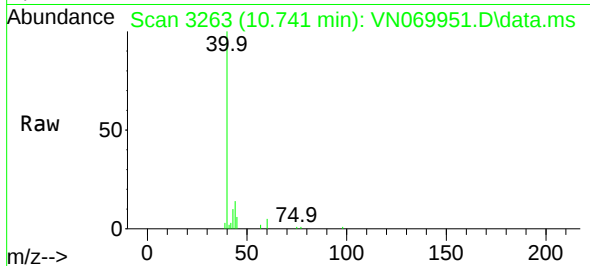




#53
t-1,3-Dichloropropene
Concen: 2.795 ug/l
RT: 10.741 min Scan# 31
Delta R.T. 0.022 min
Lab File: VN069951.D
Acq: 10 Dec 2021 8:52

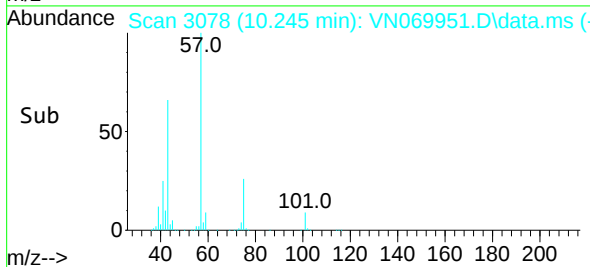
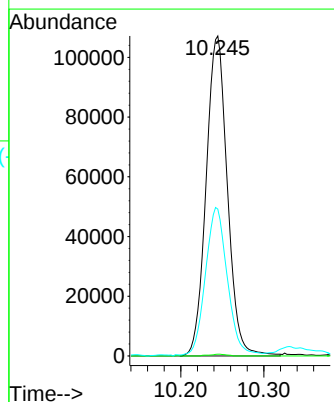
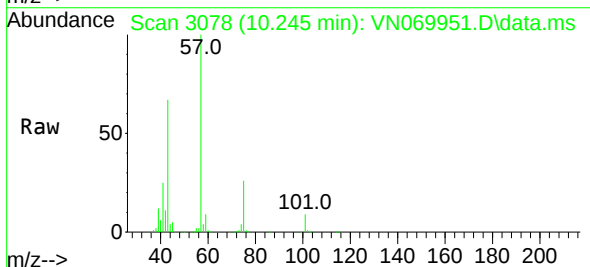
Instrument :
MSVOA_N
ClientSampleId :
TP-11S

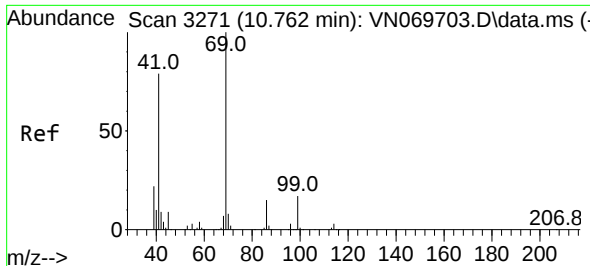
Tgt Ion: 75 Resp: 25
Ion Ratio Lower Upper
75 100
77 0.0 25.6 38.4#



#54
cis-1,3-Dichloropropene
Concen: 8.789 ug/l
RT: 10.245 min Scan# 3078
Delta R.T. 0.054 min
Lab File: VN069951.D
Acq: 10 Dec 2021 8:52

Tgt Ion: 75 Resp: 190133
Ion Ratio Lower Upper
75 100
77 0.5 26.4 39.6#
39 45.6 42.5 63.7

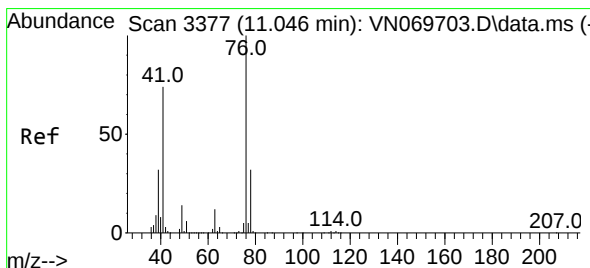
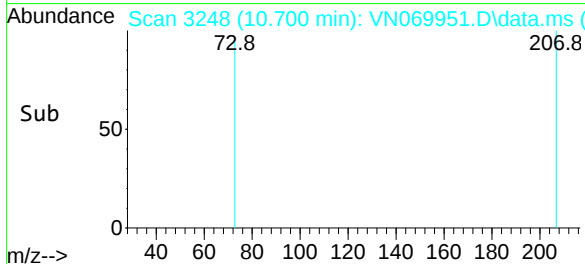
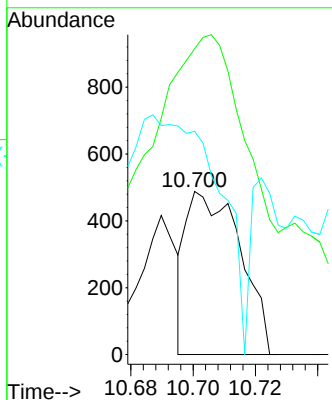
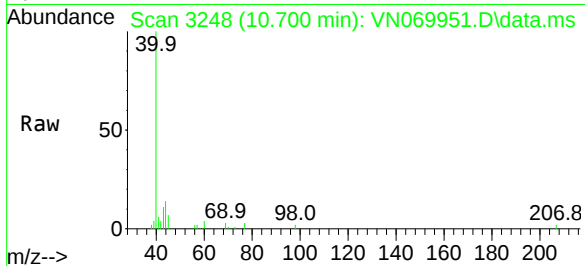




#56
Ethyl methacrylate
Concen: 2.298 ug/l
RT: 10.700 min Scan# 31
Delta R.T. -0.062 min
Lab File: VN069951.D
Acq: 10 Dec 2021 8:52

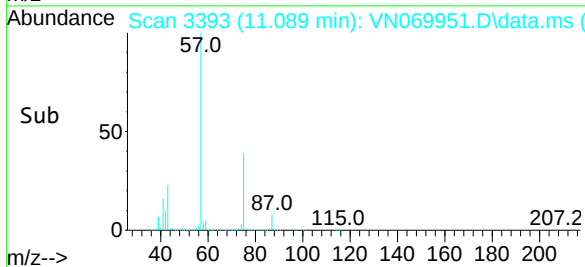
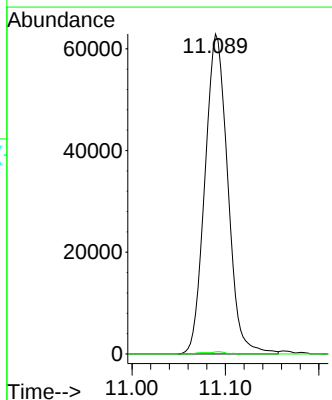
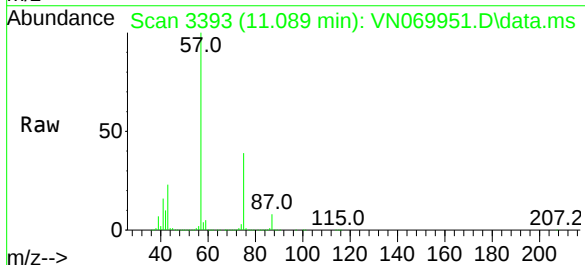
Instrument :
MSVOA_N
ClientSampleId :
TP-11S

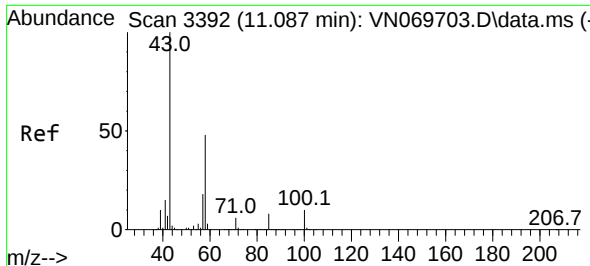
Tgt Ion: 69 Resp: 590
Ion Ratio Lower Upper
69 100
41 0.0 51.4 77.0#
39 303.7 34.6 52.0#



#57
1,3-Dichloropropane
Concen: 3.857 ug/l
RT: 11.089 min Scan# 3393
Delta R.T. 0.043 min
Lab File: VN069951.D
Acq: 10 Dec 2021 8:52

Tgt Ion: 76 Resp: 106815
Ion Ratio Lower Upper
76 100
78 0.6 25.7 38.5#

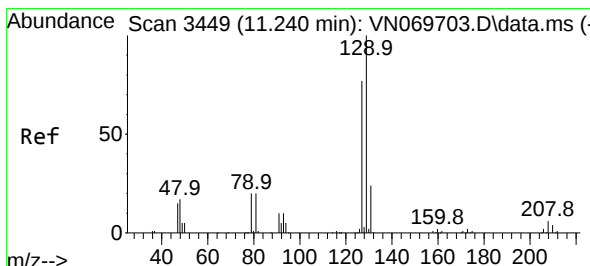
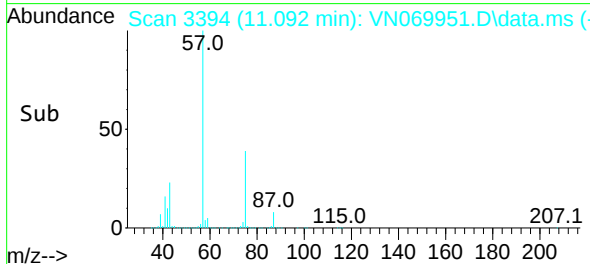
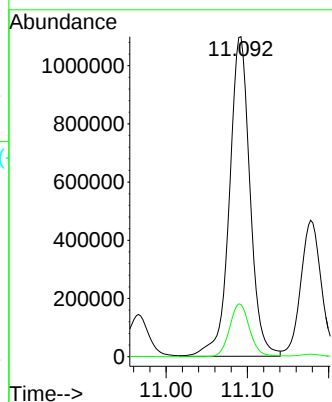
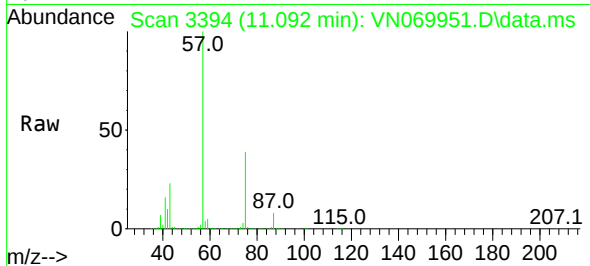




#59
2-Hexanone
Concen: 85.659 ug/l
RT: 11.092 min Scan# 31
Delta R.T. 0.005 min
Lab File: VN069951.D
Acq: 10 Dec 2021 8:52

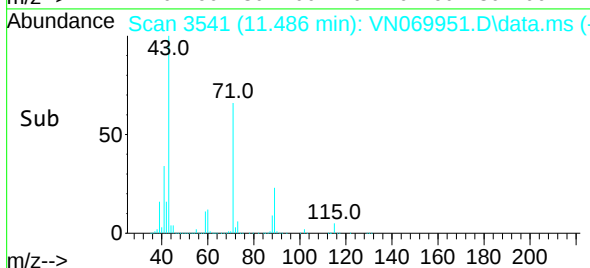
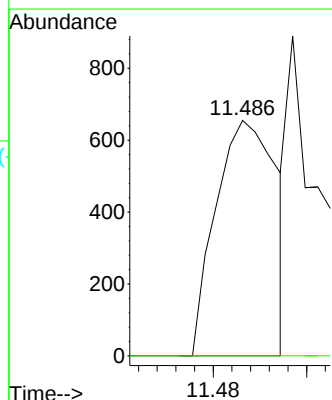
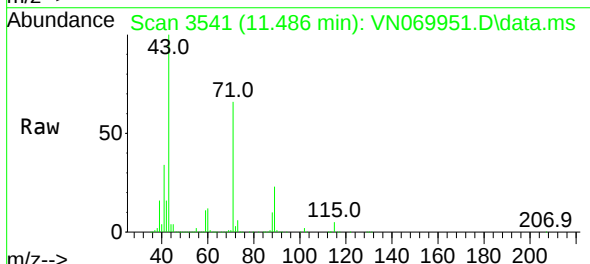
Instrument :
MSVOA_N
ClientSampleId :
TP-11S

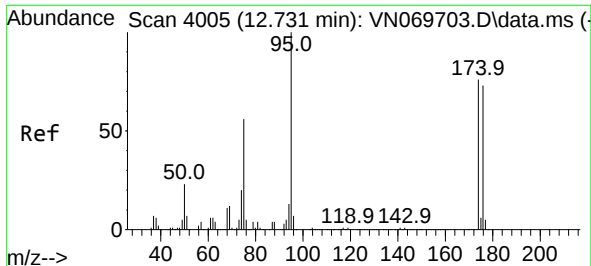
Tgt Ion: 43 Resp: 1934136
Ion Ratio Lower Upper
43 100
58 16.2 26.9 80.7#



#60
Dibromochloromethane
Concen: 2.409 ug/l
RT: 11.486 min Scan# 3541
Delta R.T. 0.246 min
Lab File: VN069951.D
Acq: 10 Dec 2021 8:52

Tgt Ion: 129 Resp: 587
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#

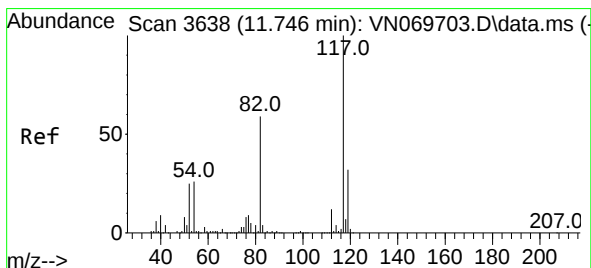
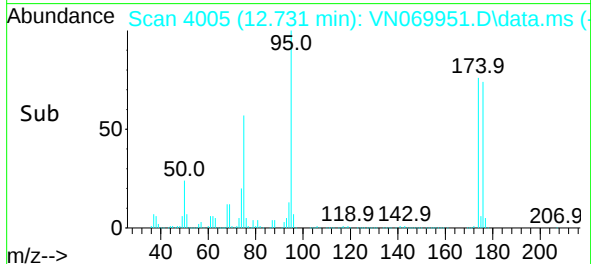
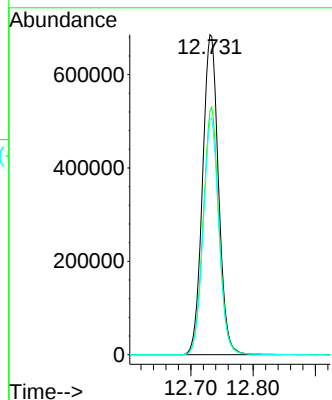
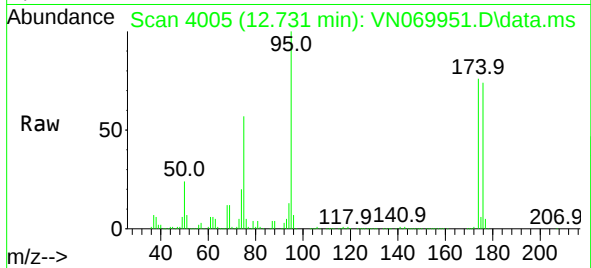




#62
4-Bromofluorobenzene
Concen: 60.881 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.000 min
Lab File: VN069951.D
Acq: 10 Dec 2021 8:52

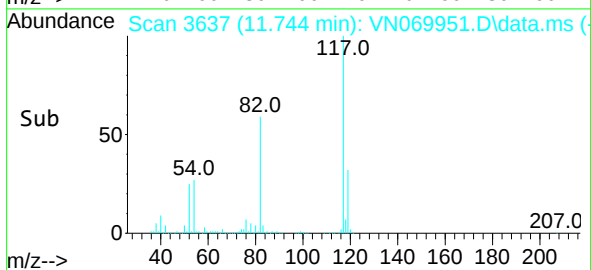
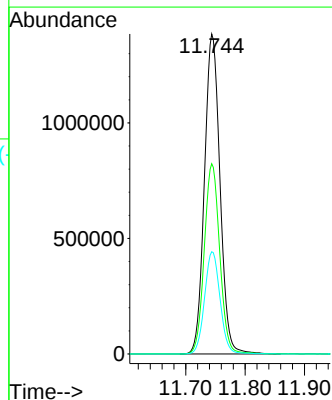
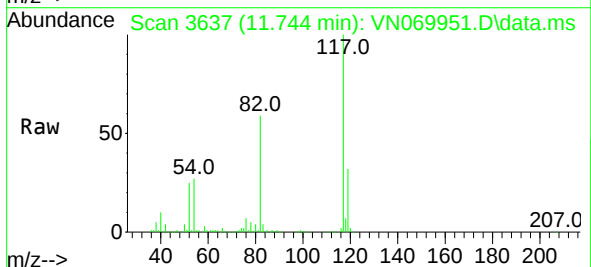
Instrument :
MSVOA_N
ClientSampleId :
TP-11S

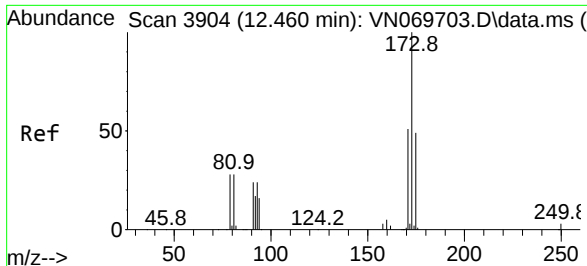
Tgt Ion: 95 Resp: 1217286
Ion Ratio Lower Upper
95 100
174 76.2 0.0 187.2
176 72.9 0.0 181.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.744 min Scan# 3637
Delta R.T. -0.002 min
Lab File: VN069951.D
Acq: 10 Dec 2021 8:52

Tgt Ion: 117 Resp: 2519960
Ion Ratio Lower Upper
117 100
82 59.4 42.4 63.6
119 32.0 25.4 38.2

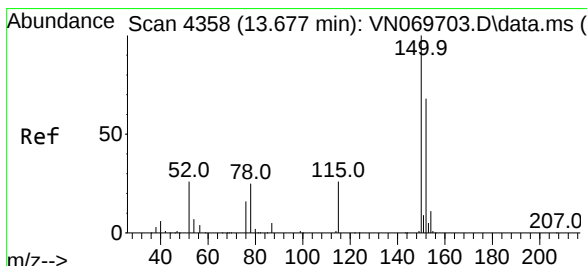
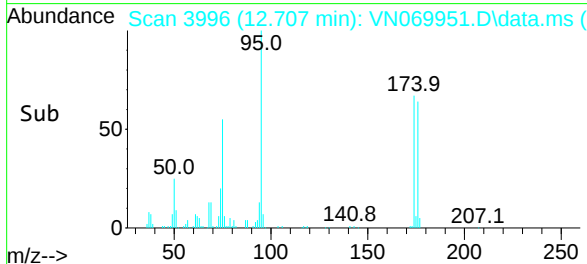
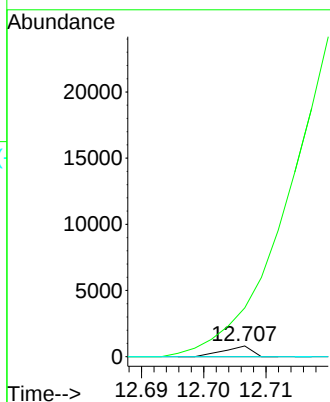
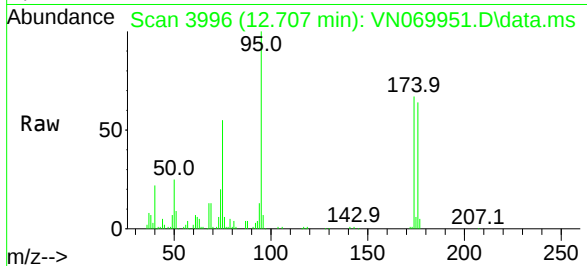




#71
Bromoform
Concen: 2.746 ug/l
RT: 12.707 min Scan# 3904
Delta R.T. 0.247 min
Lab File: VN069951.D
Acq: 10 Dec 2021 8:52

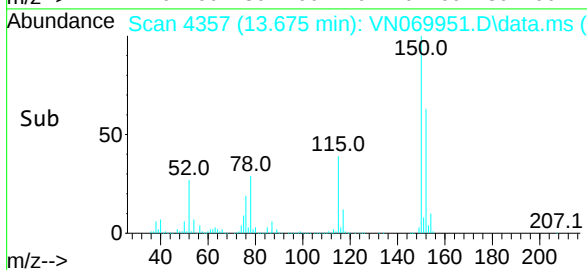
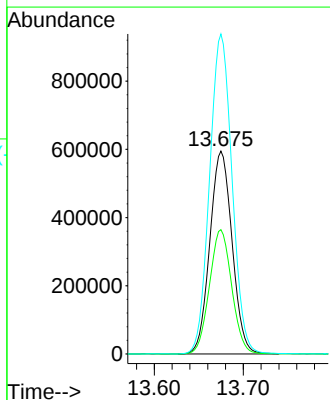
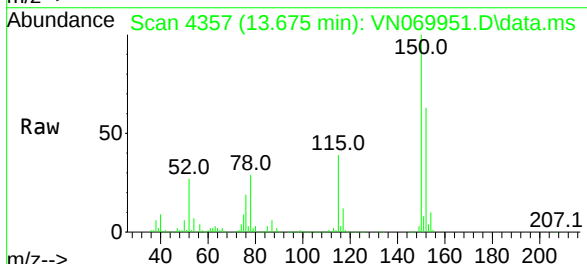
Instrument :
MSVOA_N
ClientSampleId :
TP-11S

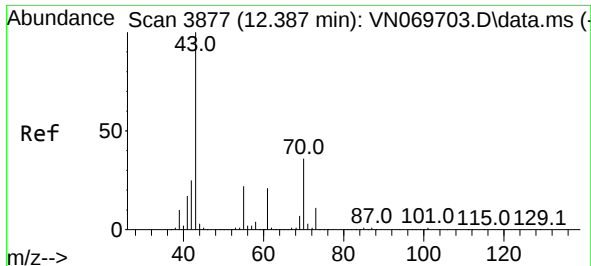
Tgt Ion:173 Resp: 251
Ion Ratio Lower Upper
173 100
175 0.0 24.2 72.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.675 min Scan# 4357
Delta R.T. -0.003 min
Lab File: VN069951.D
Acq: 10 Dec 2021 8:52

Tgt Ion:152 Resp: 1034792
Ion Ratio Lower Upper
152 100
115 61.1 27.5 82.5
150 159.0 0.0 344.4

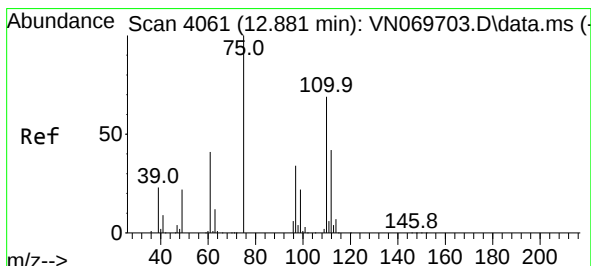
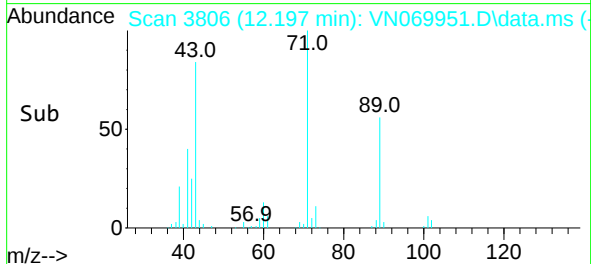
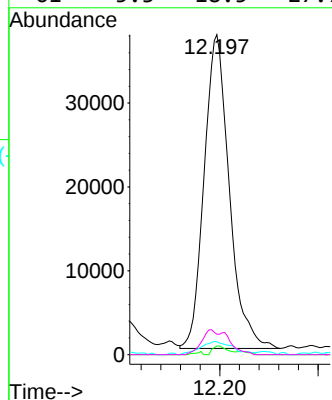
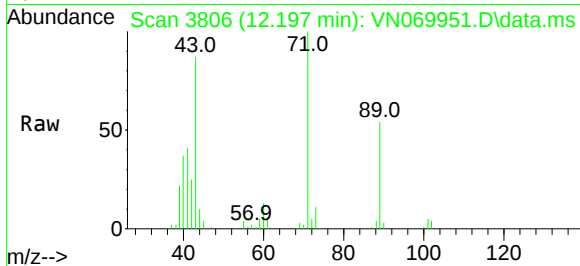




#74
N-amy1 acetate
Concen: 1.633 ug/l
RT: 12.197 min Scan# 3877
Delta R.T. -0.190 min
Lab File: VN069951.D
Acq: 10 Dec 2021 8:52

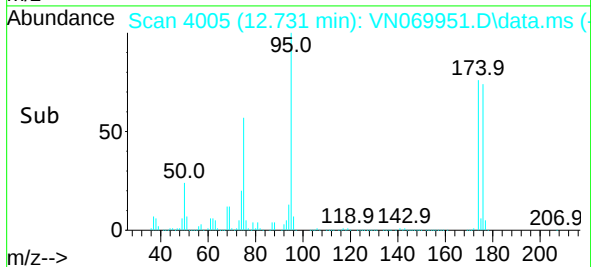
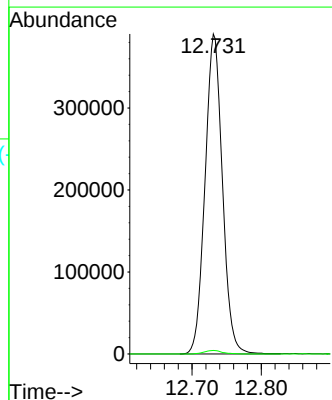
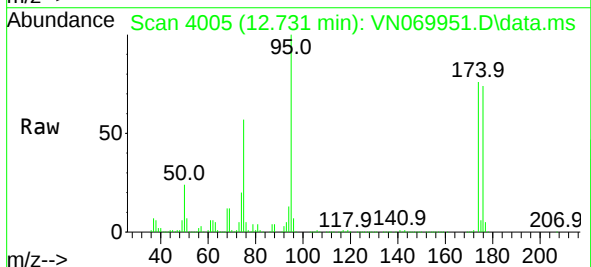
Instrument :
MSVOA_N
ClientSampleId :
TP-11S

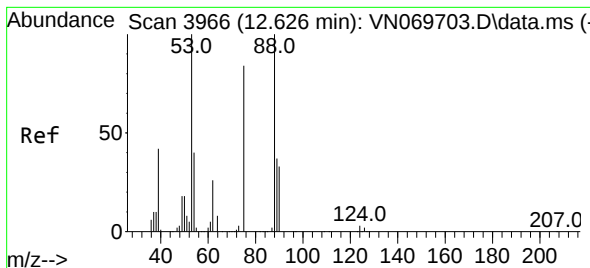
Tgt Ion: 43	Resp: 66508
Ion Ratio	Lower Upper
43 100	
70 1.6	33.4 50.0#
55 5.4	19.3 28.9#
61 5.3	18.5 27.7#



#76
1,2,3-Trichloropropane
Concen: 22.905 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.150 min
Lab File: VN069951.D
Acq: 10 Dec 2021 8:52

Tgt Ion: 75	Resp: 679724
Ion Ratio	Lower Upper
75 100	
77 1.1	82.6 247.8#

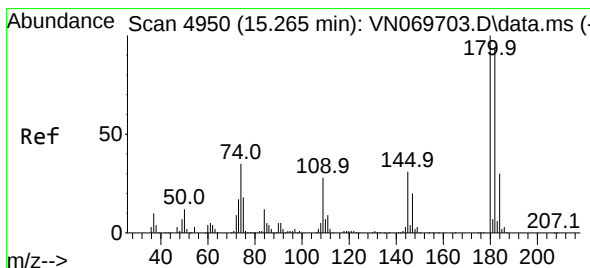
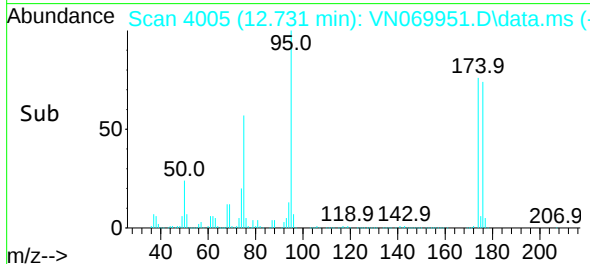
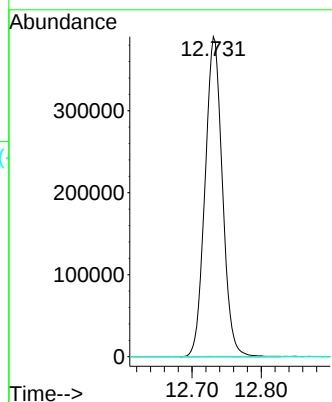
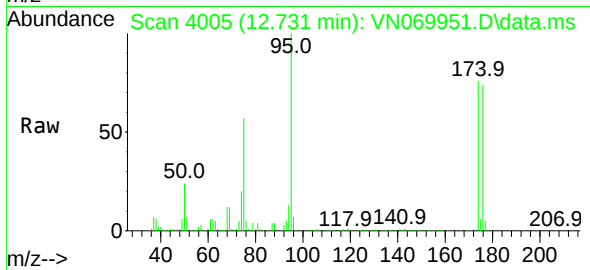




#81
trans-1,4-Dichloro-2-butene
Concen: 72.938 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.105 min
Lab File: VN069951.D
Acq: 10 Dec 2021 8:52

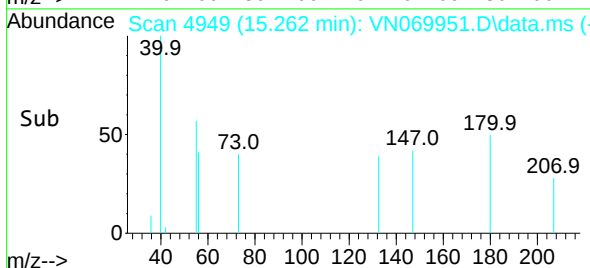
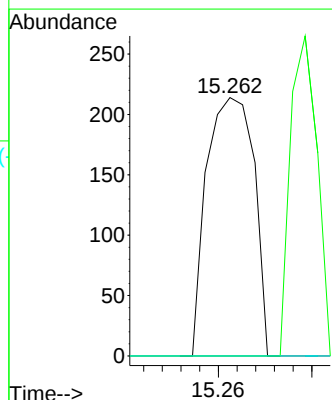
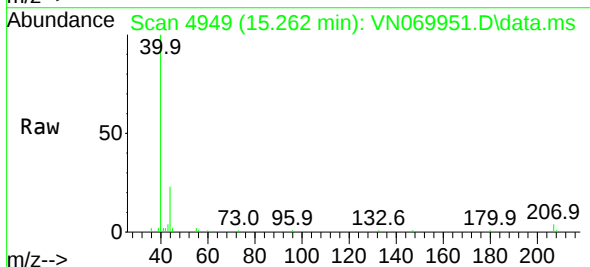
Instrument :
MSVOA_N
ClientSampleId :
TP-11S

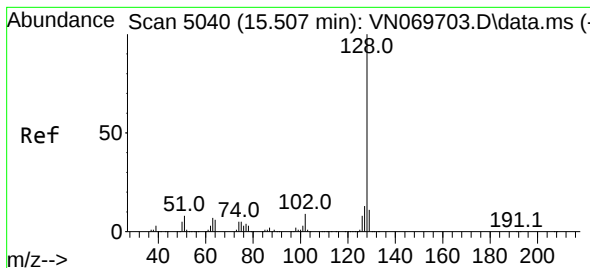
Tgt Ion: 75 Resp: 679724
Ion Ratio Lower Upper
75 100
53 0.1 90.5 135.7#
89 0.0 38.2 57.4#



#93
1,2,4-Trichlorobenzene
Concen: 2.886 ug/l
RT: 15.262 min Scan# 4949
Delta R.T. -0.003 min
Lab File: VN069951.D
Acq: 10 Dec 2021 8:52

Tgt Ion:180 Resp: 150
Ion Ratio Lower Upper
180 100
182 70.0 48.3 144.9
145 0.0 14.5 43.5#





#95

Naphthalene

Concen: 4.019 ug/l

RT: 15.501 min Scan# 5040

Delta R.T. -0.006 min

Lab File: VN069951.D

Acq: 10 Dec 2021 8:52

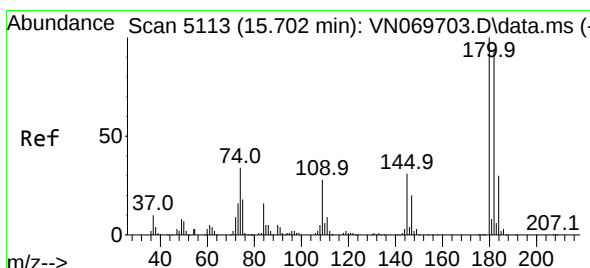
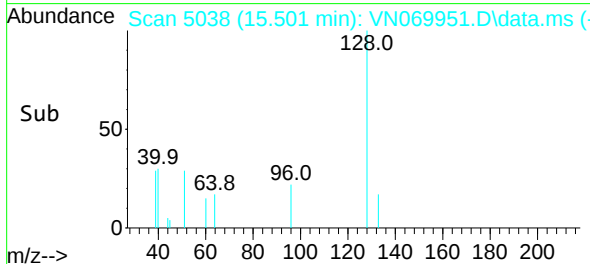
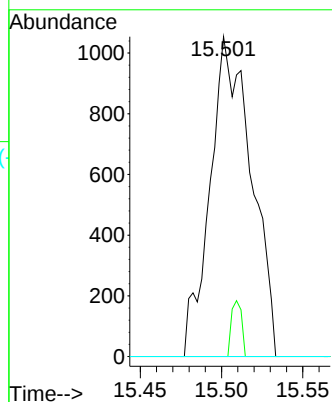
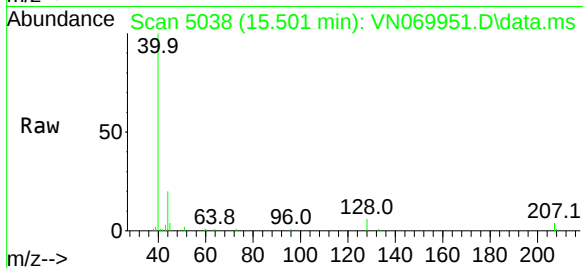
Instrument :

MSVOA_N

ClientSampleId :

TP-11S

Tgt Ion:128	Resp:	1862
Ion Ratio	Lower	Upper
128	100	
127	4.3	10.5 15.7#
129	0.0	8.7 13.1#



#96

1,2,3-Trichlorobenzene

Concen: 2.438 ug/l

RT: 15.710 min Scan# 5116

Delta R.T. 0.008 min

Lab File: VN069951.D

Acq: 10 Dec 2021 8:52

Tgt Ion:180	Resp:	50
Ion Ratio	Lower	Upper
180	100	
182	56.0	47.4 142.2
145	0.0	15.0 45.1#

