

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091321\
 Data File : VN068461.D
 Acq On : 13 Sep 2021 16:48
 Operator : JC/MD
 Sample : VN0913WBL01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0913WBL01

Quant Time: Sep 14 04:27:35 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N091321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Sep 14 04:23:31 2021
 Response via : Initial Calibration

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

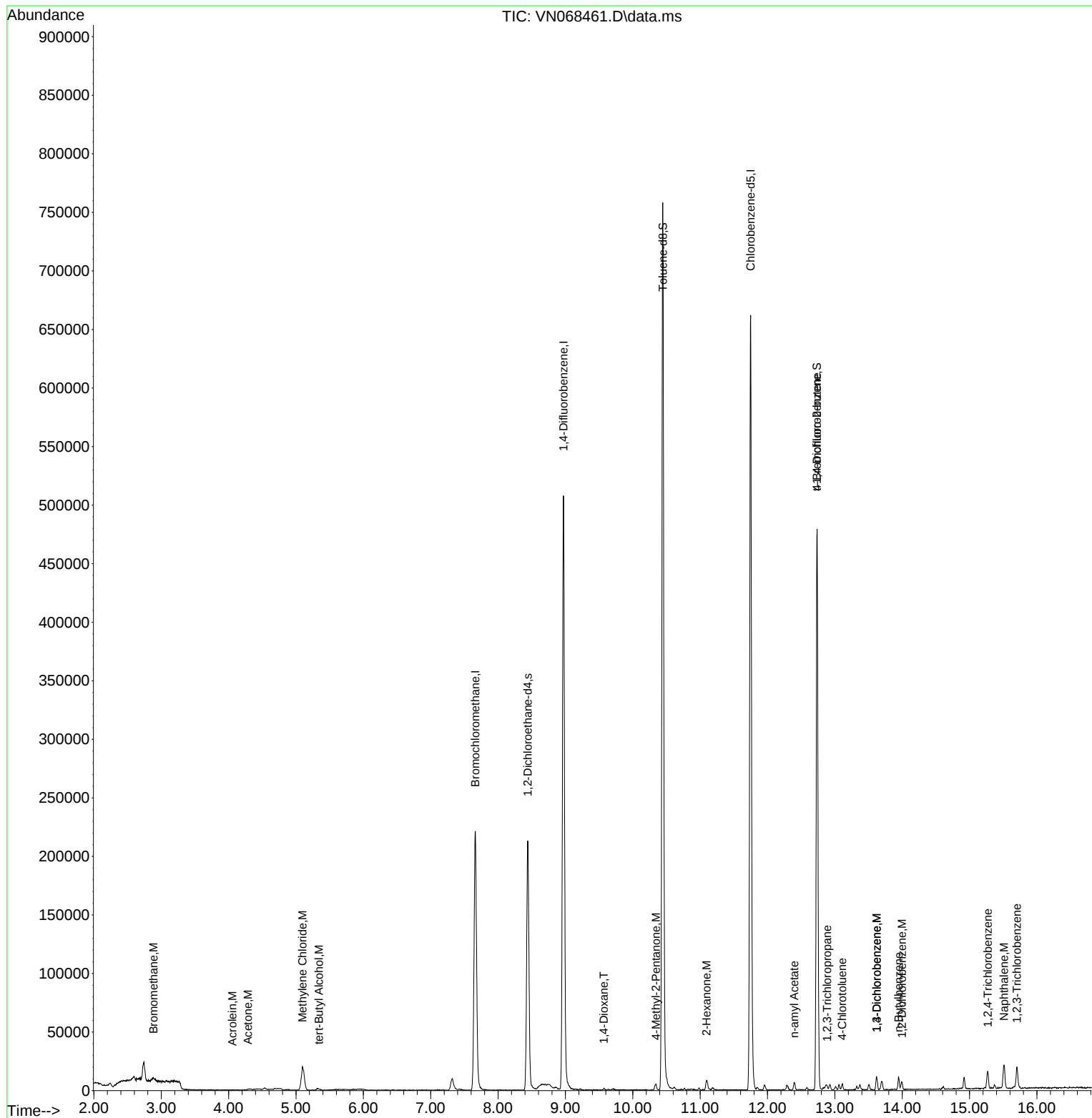
Internal Standards						
1) Bromochloromethane	7.662	128	96618	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	503897	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.749	117	436432	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	182951	32.063	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 106.867%			
60) 4-Bromofluorobenzene	12.734	95	163439	26.274	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 87.567%			
63) Toluene-d8	10.446	98	583858	30.752	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.500%			
Target Compounds						
					Qvalue	
5) Bromomethane	2.885	94	2987	0.446	ug/l #	58
13) Acrolein	4.057	56	173	0.470	ug/l #	14
15) Acetone	4.285	58	118	0.218	ug/l #	1
18) Methylene Chloride	5.095	84	17324	3.287	ug/l	94
23) tert-Butyl Alcohol	5.342	59	238	0.297	ug/l #	100
45) 1,4-Dioxane	9.572	88	126	1.339	ug/l #	1
47) n-amyl Acetate	12.396	43	4020	0.615	ug/l	91
58) 4-Methyl-2-Pentanone	10.344	43	3624	0.705	ug/l #	88
59) 2-Hexanone	11.095	43	6645	1.866	ug/l #	63
72) 1,2,3-Trichloropropane	12.887	75	1499	0.256	ug/l	1
77) t-1,4-Dichloro-2-butene	12.734	75	81835	42.426	ug/l #	13
78) 4-Chlorotoluene	13.109	91	3671	0.228	ug/l	99
83) 1,3-Dichlorobenzene	13.621	146	3633	0.285	ug/l	96
84) 1,4-Dichlorobenzene	13.621	146	3633	0.298	ug/l	97
85) n-Butylbenzene	13.946	91	6919	0.434	ug/l	94
87) 1,2-Dichlorobenzene	13.997	146	3770	0.308	ug/l	97
89) 1,2,4-Trichlorobenzene	15.271	180	6368	1.078	ug/l	99
91) Naphthalene	15.512	128	21911	1.719	ug/l	99
92) 1,2,3-Trichlorobenzene	15.703	180	8160	1.466	ug/l	84

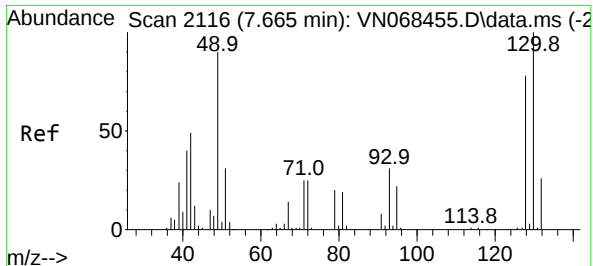
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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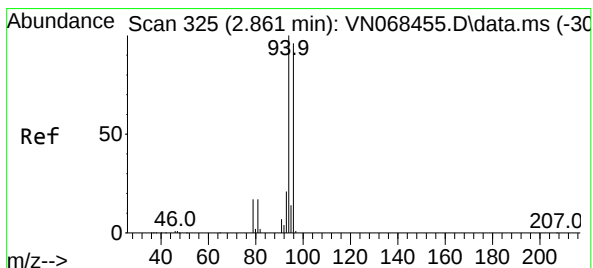
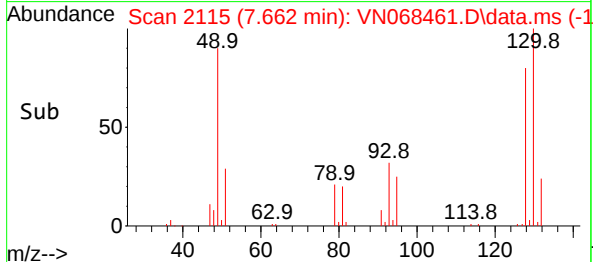
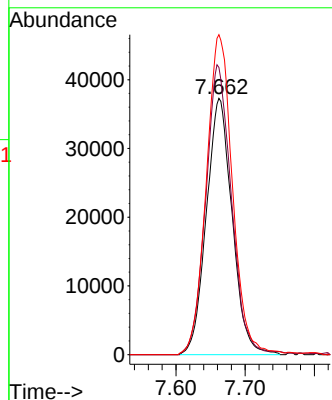
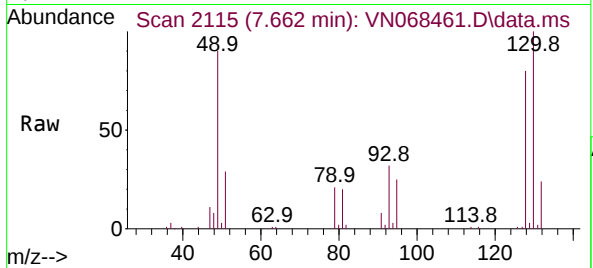




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.662 min Scan# 2116
Delta R.T. -0.003 min
Lab File: VN068461.D
Acq: 13 Sep 2021 16:48

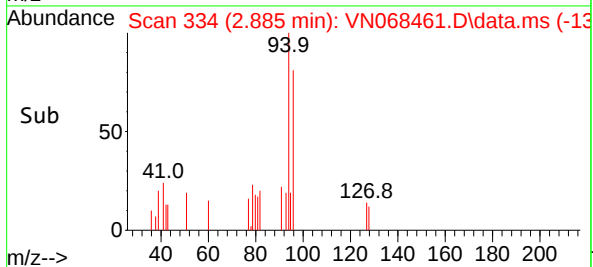
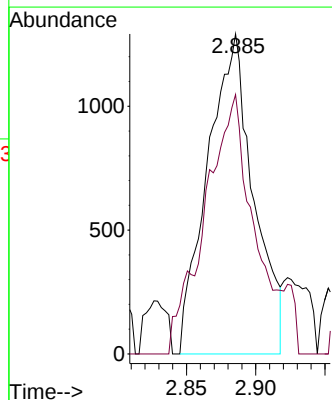
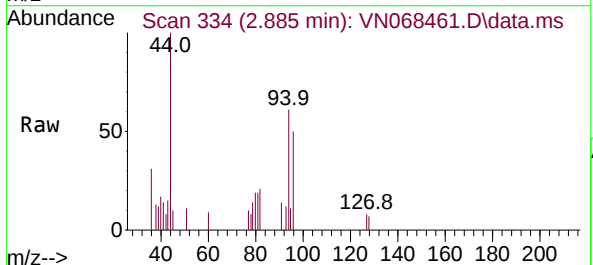
Instrument :
MSVOA_N
ClientSampleId :
VN0913WBL01

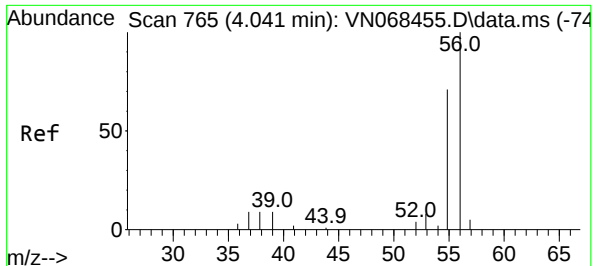
Tgt Ion:128 Resp: 96618
Ion Ratio Lower Upper
128 100
49 112.8 0.0 292.5
130 126.7 0.0 325.0



#5
Bromomethane
Concen: 0.446 ug/l
RT: 2.885 min Scan# 334
Delta R.T. 0.024 min
Lab File: VN068461.D
Acq: 13 Sep 2021 16:48

Tgt Ion: 94 Resp: 2987
Ion Ratio Lower Upper
94 100
96 55.5 77.0 115.4#

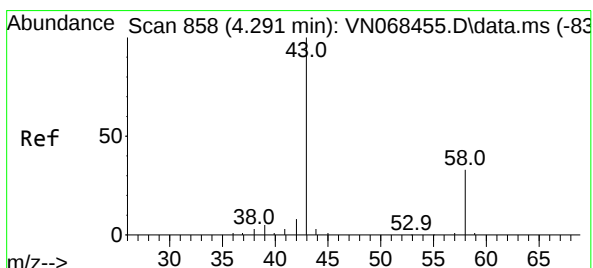
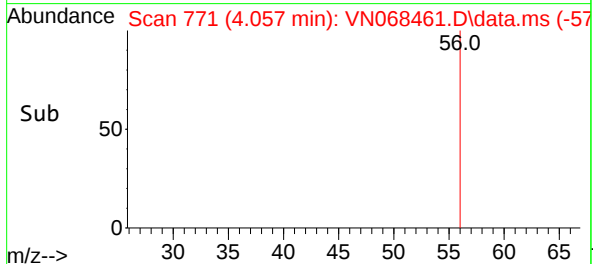
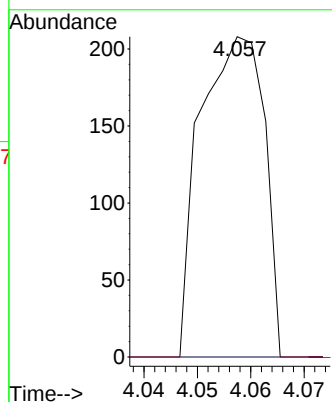
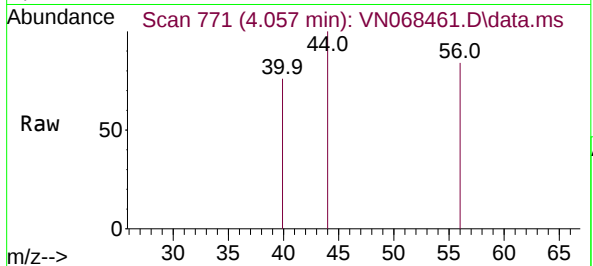




#13
Acrolein
Concen: 0.470 ug/l
RT: 4.057 min Scan# 771
Delta R.T. 0.016 min
Lab File: VN068461.D
Acq: 13 Sep 2021 16:48

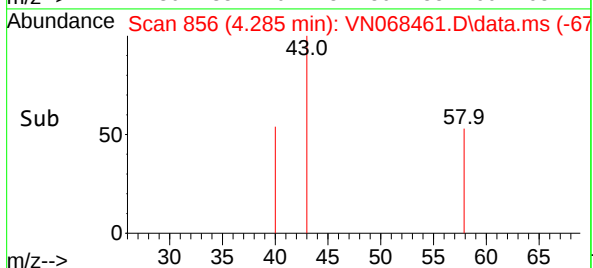
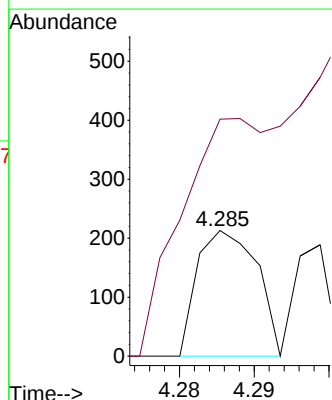
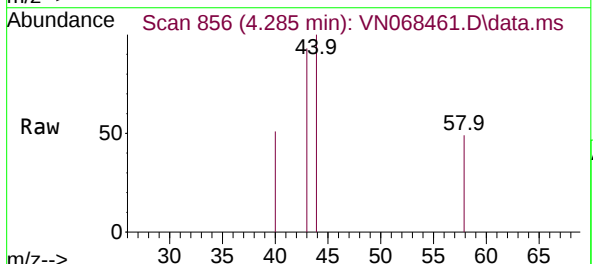
Instrument :
MSVOA_N
ClientSampleId :
VN0913WBL01

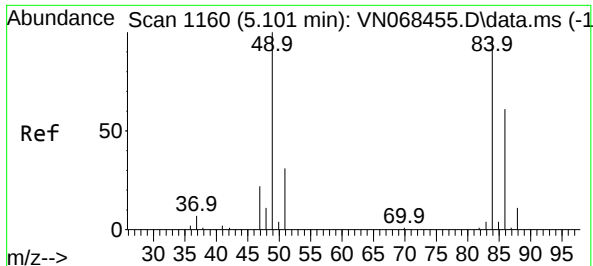
Tgt Ion: 56 Resp: 173
Ion Ratio Lower Upper
56 100
55 0.0 57.2 85.8#



#15
Acetone
Concen: 0.218 ug/l
RT: 4.285 min Scan# 856
Delta R.T. -0.005 min
Lab File: VN068461.D
Acq: 13 Sep 2021 16:48

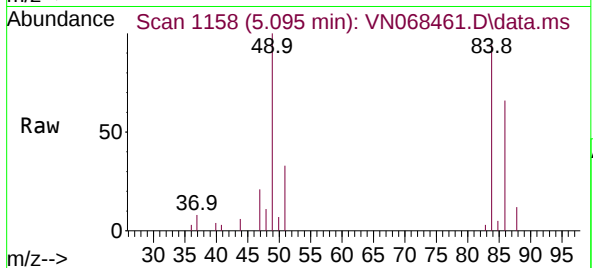
Tgt Ion: 58 Resp: 118
Ion Ratio Lower Upper
58 100
43 80.3 239.9 359.9#



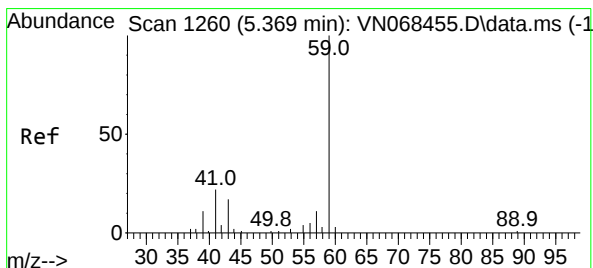
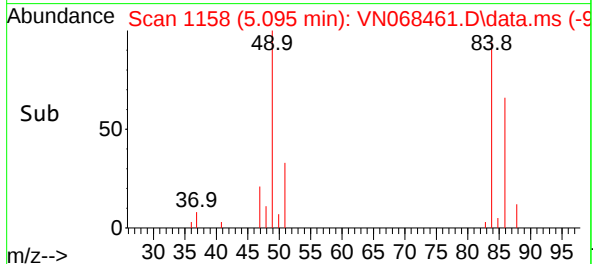
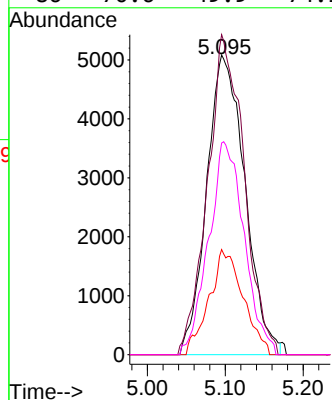


#18
Methylene Chloride
Concen: 3.287 ug/l
RT: 5.095 min Scan# 1158
Delta R.T. -0.005 min
Lab File: VN068461.D
Acq: 13 Sep 2021 16:48

Instrument :
MSVOA_N
ClientSampleId :
VN0913WBL01

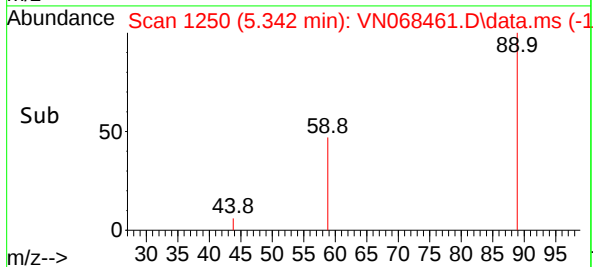
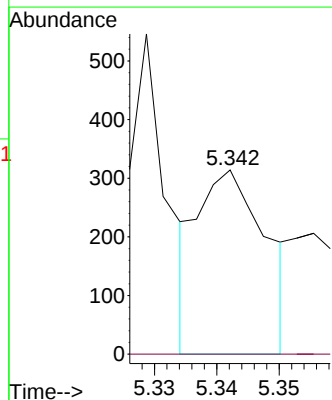
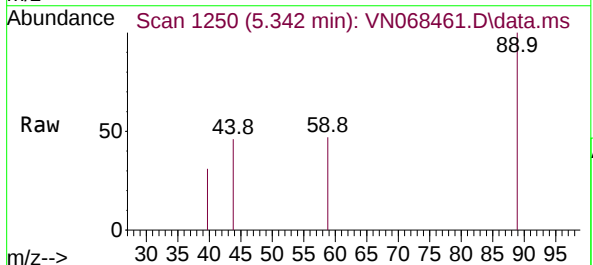


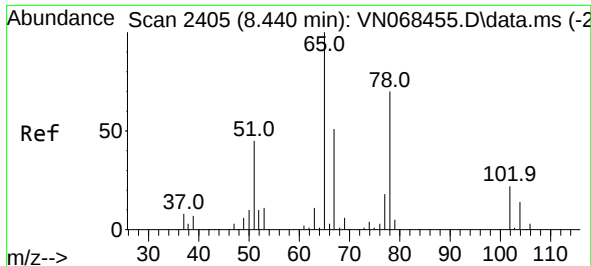
Tgt Ion	Ratio	Lower	Upper
84	100		
49	106.8	82.4	123.6
51	35.1	25.9	38.9
86	70.6	49.9	74.9



#23
tert-Butyl Alcohol
Concen: 0.297 ug/l
RT: 5.342 min Scan# 1250
Delta R.T. -0.027 min
Lab File: VN068461.D
Acq: 13 Sep 2021 16:48

Tgt Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0





#27

1,2-Dichloroethane-d4

Concen: 32.063 ug/l

RT: 8.440 min Scan# 2405

Delta R.T. 0.000 min

Lab File: VN068461.D

Acq: 13 Sep 2021 16:48

Instrument :

MSVOA_N

ClientSampleId :

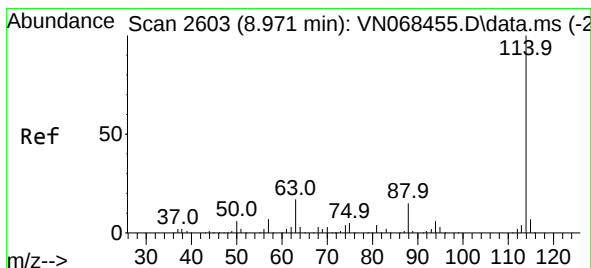
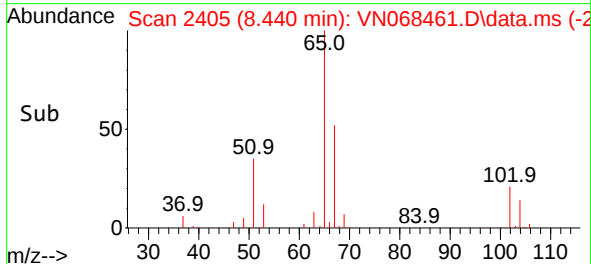
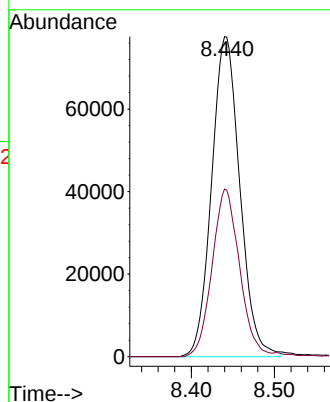
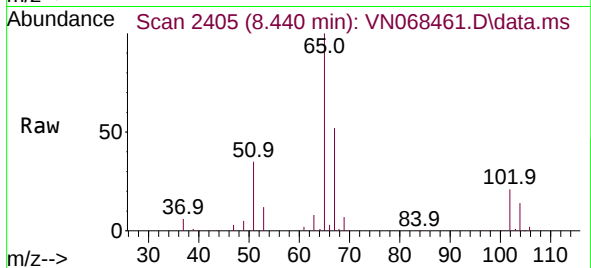
VN0913WBL01

Tgt Ion: 65 Resp: 182951

Ion Ratio Lower Upper

65 100

67 50.8 41.8 62.8



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.971 min Scan# 2603

Delta R.T. 0.000 min

Lab File: VN068461.D

Acq: 13 Sep 2021 16:48

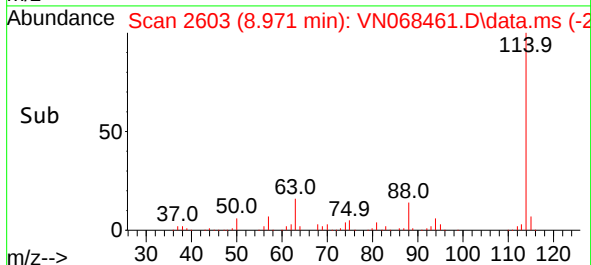
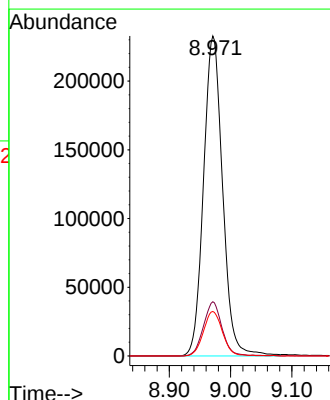
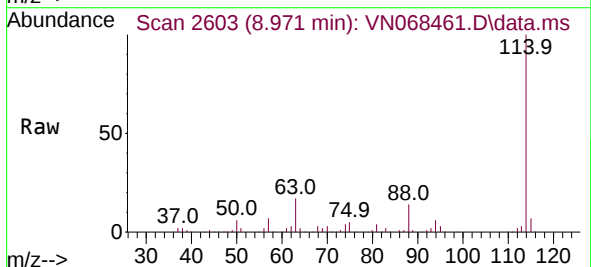
Tgt Ion: 114 Resp: 503897

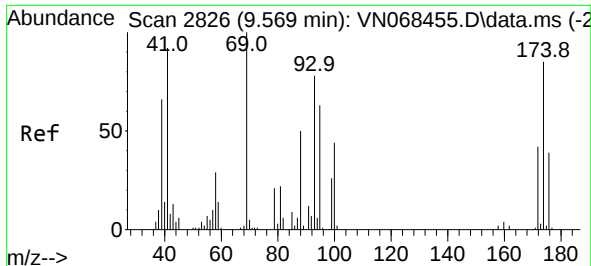
Ion Ratio Lower Upper

114 100

63 16.4 13.4 20.0

88 13.9 11.1 16.7

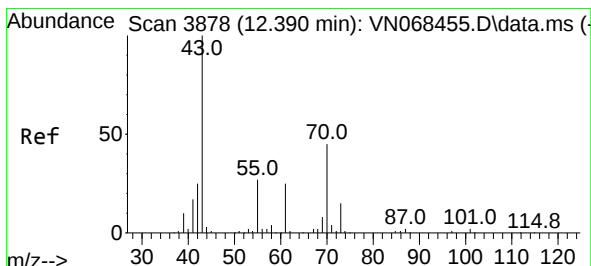
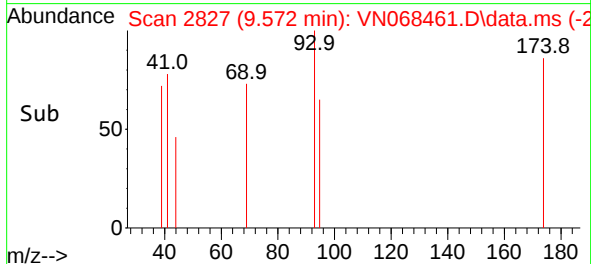
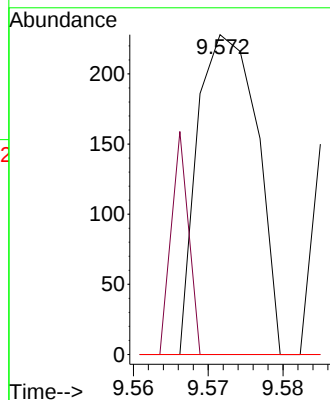
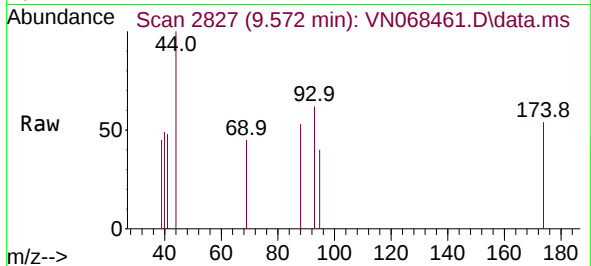




#45
1,4-Dioxane
Concen: 1.339 ug/l
RT: 9.572 min Scan# 21
Delta R.T. 0.003 min
Lab File: VN068461.D
Acq: 13 Sep 2021 16:48

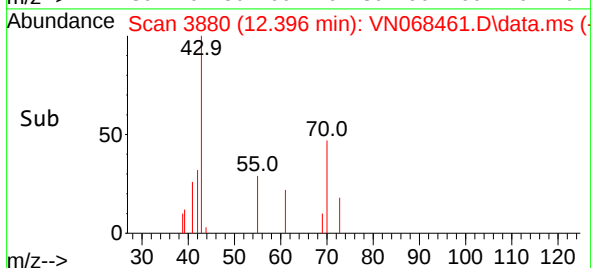
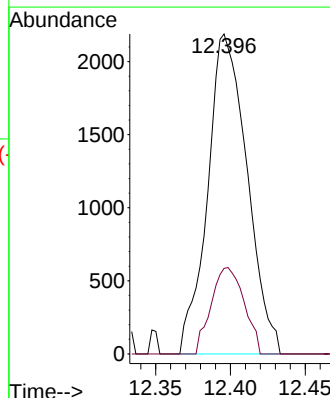
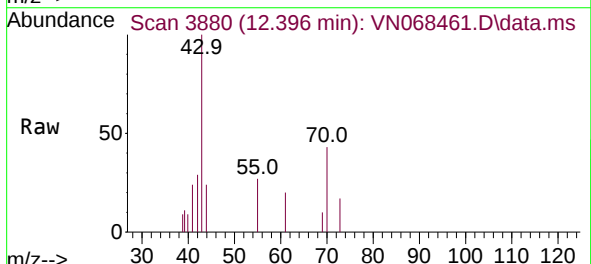
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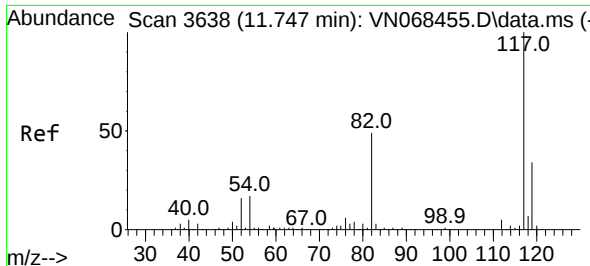
Tgt Ion: 88 Resp: 126
Ion Ratio Lower Upper
88 100
43 415.1 21.0 31.4#
58 0.0 47.0 70.6#



#47
n-amy1 Acetate
Concen: 0.615 ug/l
RT: 12.396 min Scan# 3880
Delta R.T. 0.005 min
Lab File: VN068461.D
Acq: 13 Sep 2021 16:48

Tgt Ion: 43 Resp: 4020
Ion Ratio Lower Upper
43 100
55 22.5 21.7 32.5

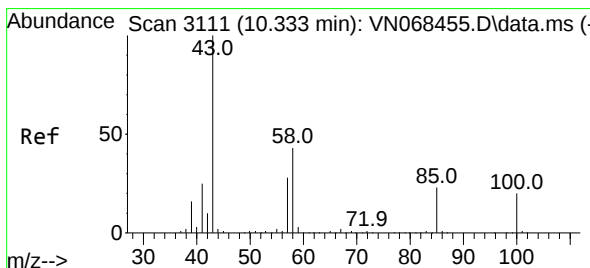
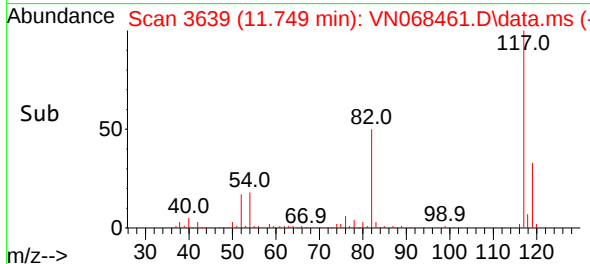
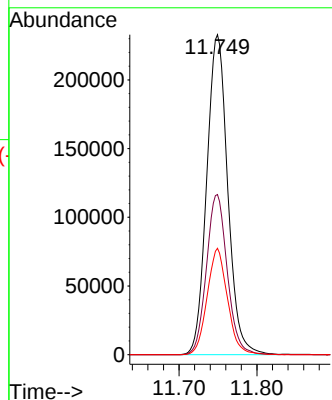
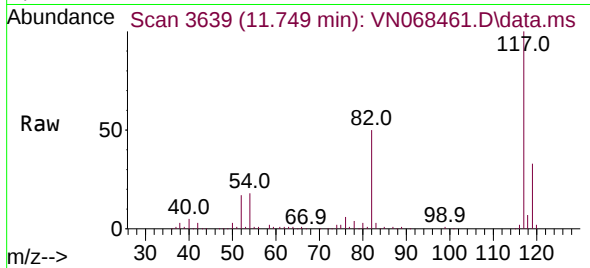




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.749 min Scan# 3639
Delta R.T. 0.003 min
Lab File: VN068461.D
Acq: 13 Sep 2021 16:48

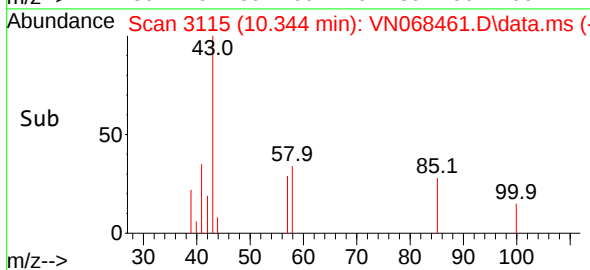
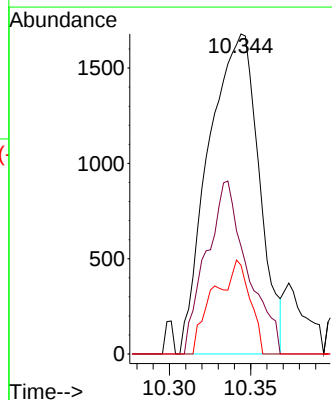
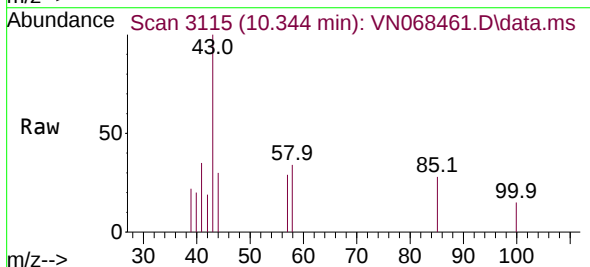
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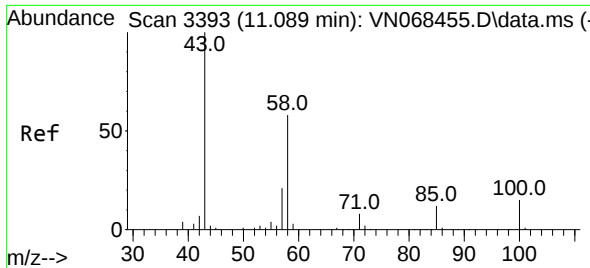
Tgt Ion:117 Resp: 436432
Ion Ratio Lower Upper
117 100
82 49.8 39.4 59.0
119 32.2 26.2 39.2



#58
4-Methyl-2-Pentanone
Concen: 0.705 ug/l
RT: 10.344 min Scan# 3115
Delta R.T. 0.011 min
Lab File: VN068461.D
Acq: 13 Sep 2021 16:48

Tgt Ion: 43 Resp: 3624
Ion Ratio Lower Upper
43 100
58 44.0 33.3 49.9
85 10.8 18.6 27.8#

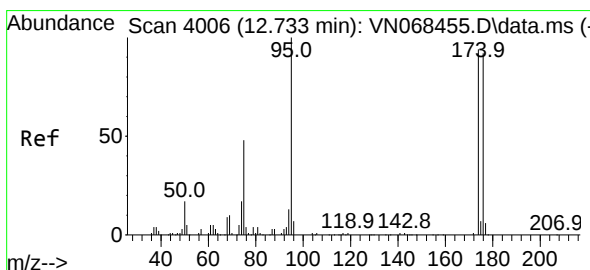
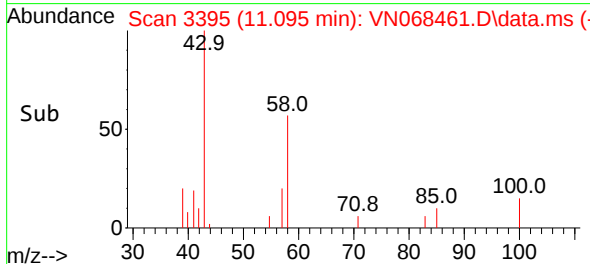
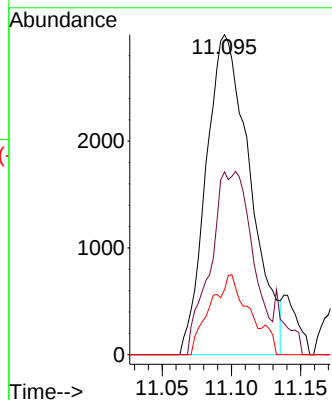
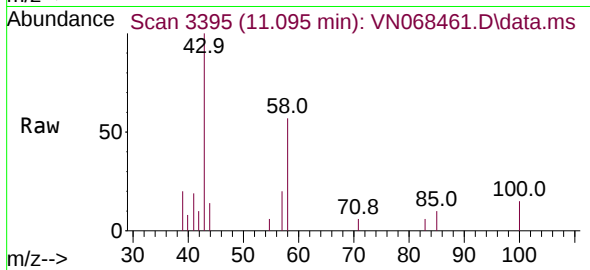




#59
2-Hexanone
Concen: 1.866 ug/l
RT: 11.095 min Scan# 3395
Delta R.T. 0.005 min
Lab File: VN068461.D
Acq: 13 Sep 2021 16:48

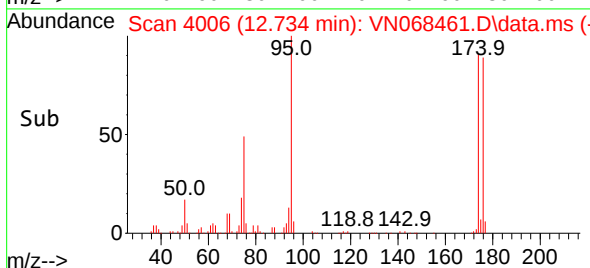
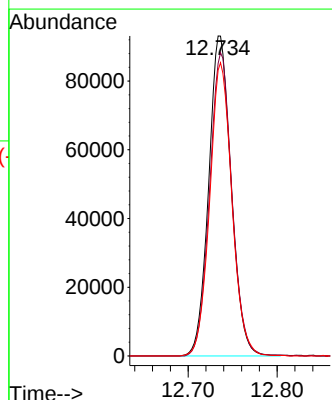
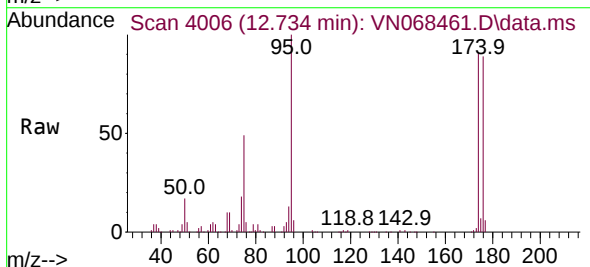
Instrument :
MSVOA_N
ClientSampleId :
VN0913WBL01

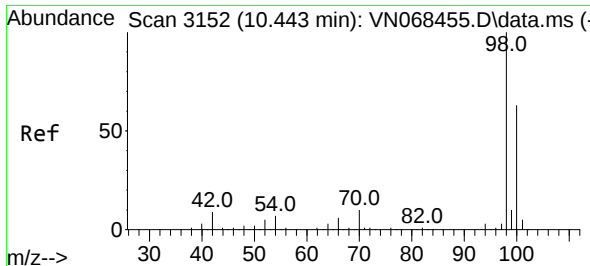
Tgt Ion: 43 Resp: 6645
Ion Ratio Lower Upper
43 100
58 25.1 46.4 69.6#
57 12.5 16.6 25.0#



#60
4-Bromofluorobenzene
Concen: 26.274 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.000 min
Lab File: VN068461.D
Acq: 13 Sep 2021 16:48

Tgt Ion: 95 Resp: 163439
Ion Ratio Lower Upper
95 100
174 94.4 78.0 117.0
176 90.4 76.4 114.6

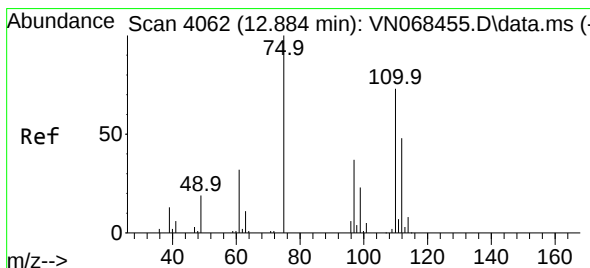
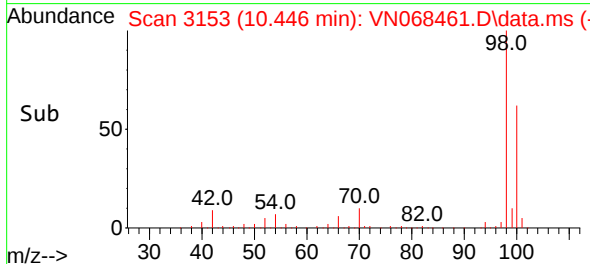
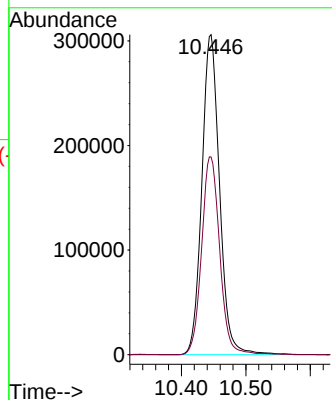
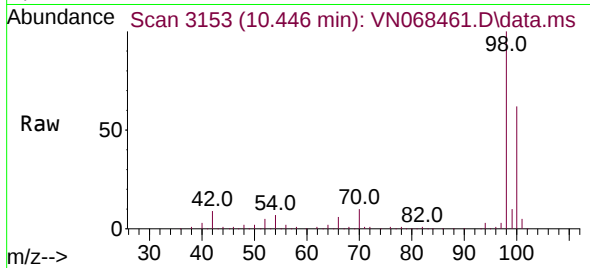




#63
Toluene-d8
Concen: 30.752 ug/l
RT: 10.446 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VN068461.D
Acq: 13 Sep 2021 16:48

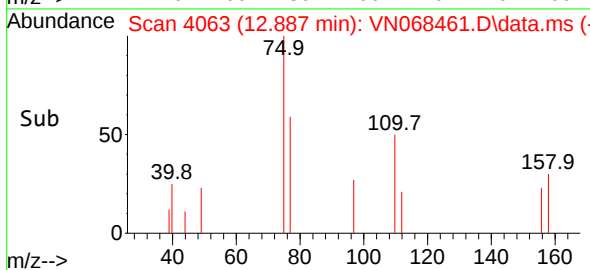
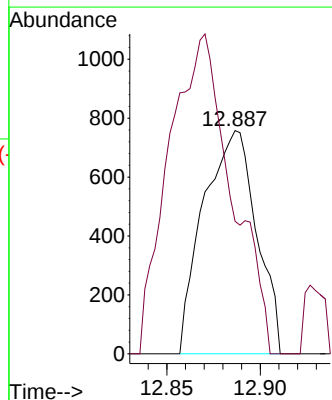
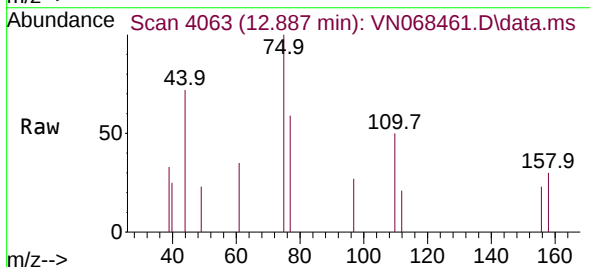
Instrument :
MSVOA_N
ClientSampleId :
VN0913WBL01

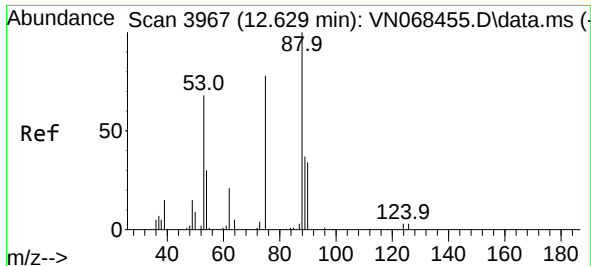
Tgt Ion: 98 Resp: 583858
Ion Ratio Lower Upper
98 100
100 63.0 50.9 76.3



#72
1,2,3-Trichloropropane
Concen: 0.256 ug/l
RT: 12.887 min Scan# 4063
Delta R.T. 0.003 min
Lab File: VN068461.D
Acq: 13 Sep 2021 16:48

Tgt Ion: 75 Resp: 1499
Ion Ratio Lower Upper
75 100
77 11.2 0.0 357.6

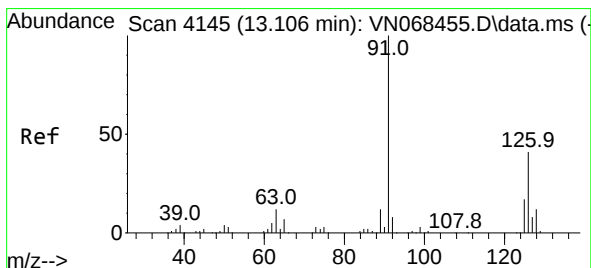
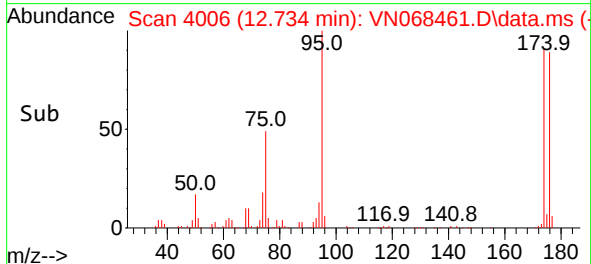
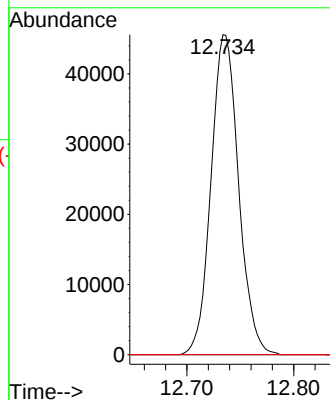
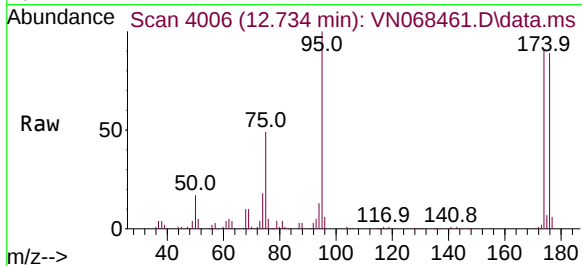




#77
t-1,4-Dichloro-2-butene
Concen: 42.426 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.105 min
Lab File: VN068461.D
Acq: 13 Sep 2021 16:48

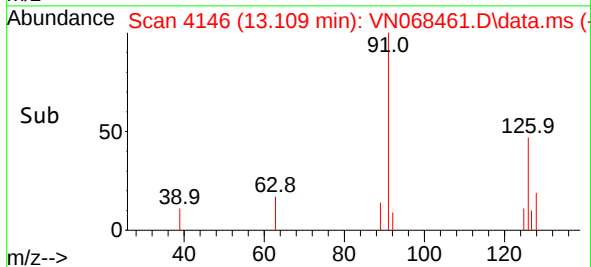
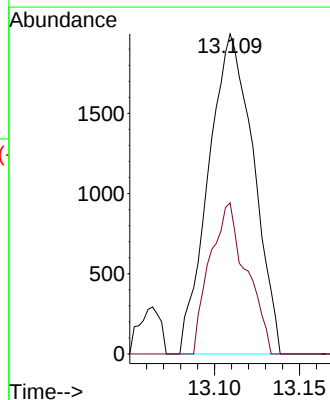
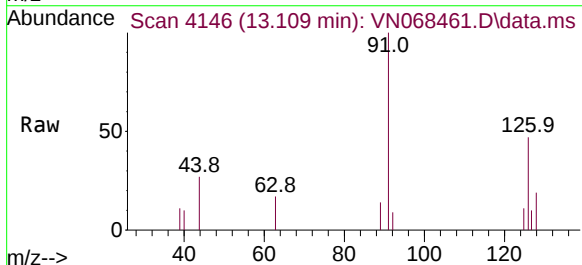
Instrument :
MSVOA_N
ClientSampleId :
VN0913WBL01

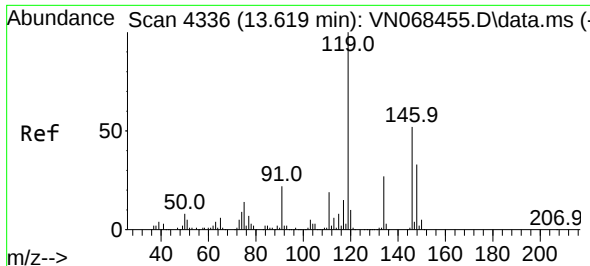
Tgt Ion: 75 Resp: 81835
Ion Ratio Lower Upper
75 100
53 0.0 43.8 131.4#
89 0.0 26.2 78.6#



#78
4-Chlorotoluene
Concen: 0.228 ug/l
RT: 13.109 min Scan# 4146
Delta R.T. 0.003 min
Lab File: VN068461.D
Acq: 13 Sep 2021 16:48

Tgt Ion: 91 Resp: 3671
Ion Ratio Lower Upper
91 100
126 38.4 0.0 77.8

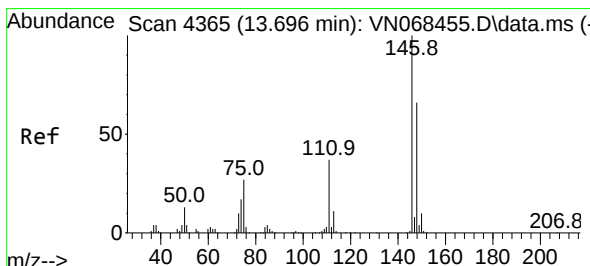
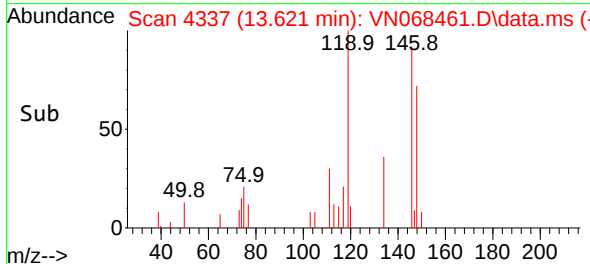
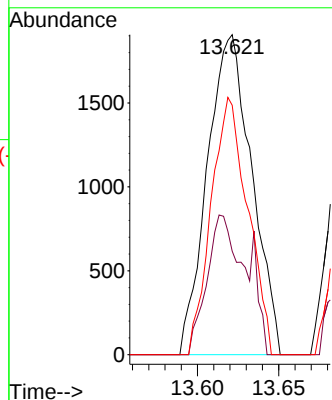
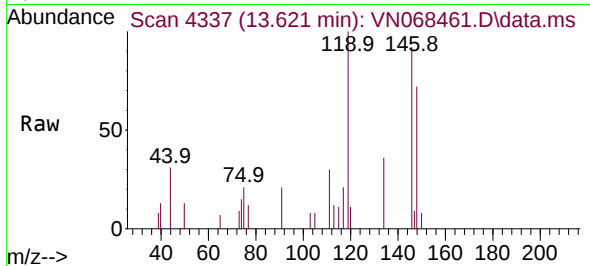




#83
1,3-Dichlorobenzene
Concen: 0.285 ug/l
RT: 13.621 min Scan# 4337
Delta R.T. 0.003 min
Lab File: VN068461.D
Acq: 13 Sep 2021 16:48

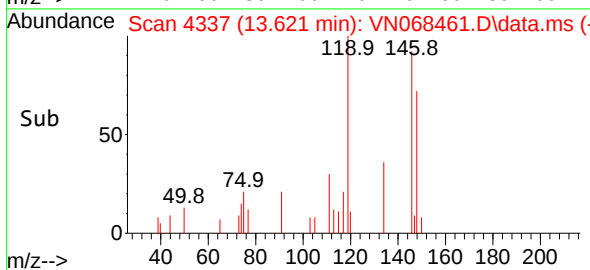
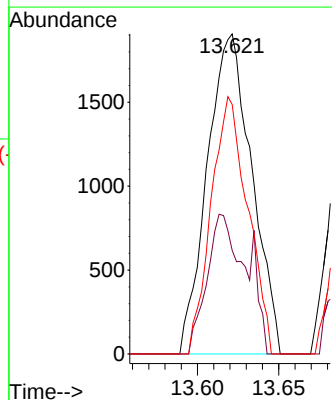
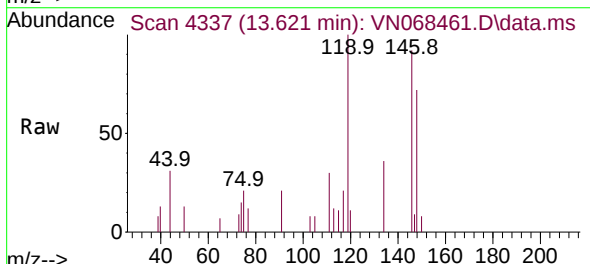
Instrument :
MSVOA_N
ClientSampleId :
VN0913WBL01

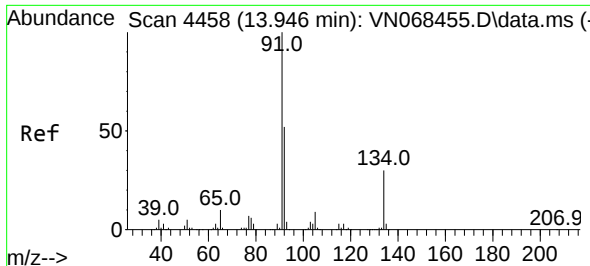
Tgt Ion:146 Resp: 3633
Ion Ratio Lower Upper
146 100
111 32.9 18.4 55.2
148 66.1 32.0 96.0



#84
1,4-Dichlorobenzene
Concen: 0.298 ug/l
RT: 13.621 min Scan# 4337
Delta R.T. -0.075 min
Lab File: VN068461.D
Acq: 13 Sep 2021 16:48

Tgt Ion:146 Resp: 3633
Ion Ratio Lower Upper
146 100
111 32.9 18.2 54.6
148 66.1 32.6 97.7

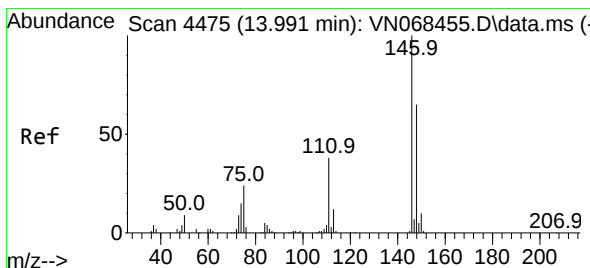
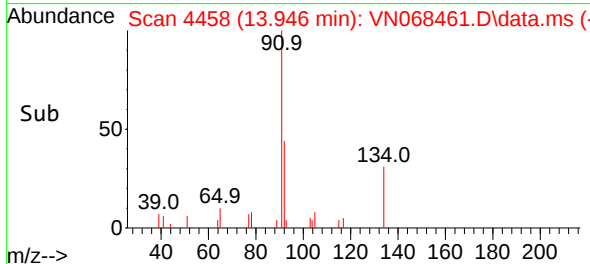
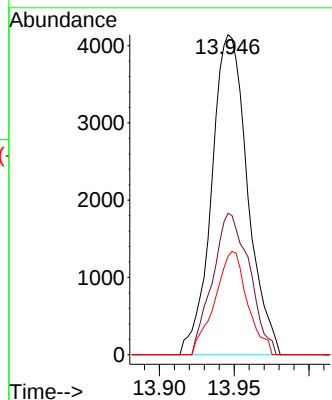
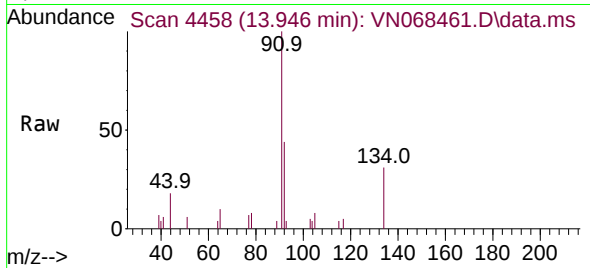




#85
n-Butylbenzene
Concen: 0.434 ug/l
RT: 13.946 min Scan# 4458
Delta R.T. 0.000 min
Lab File: VN068461.D
Acq: 13 Sep 2021 16:48

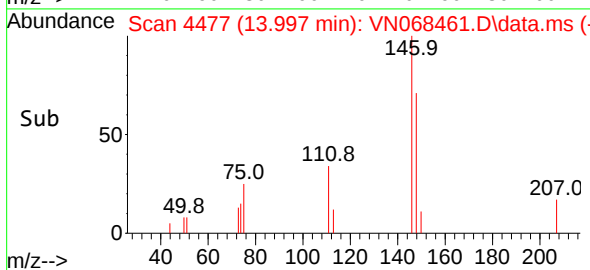
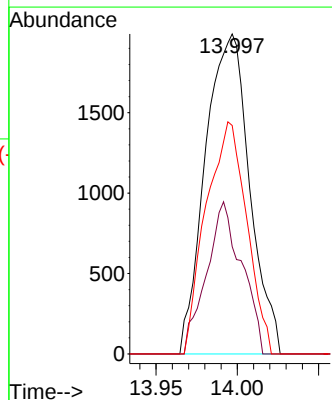
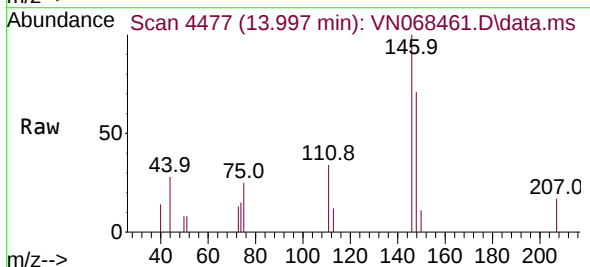
Instrument :
MSVOA_N
ClientSampleId :
VN0913WBL01

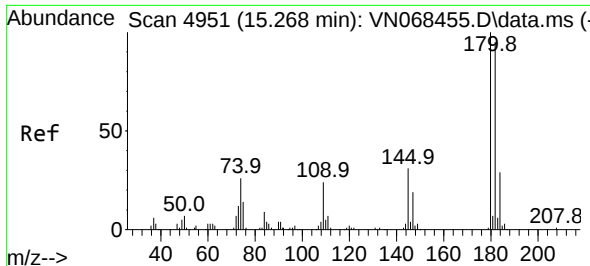
Tgt Ion: 91 Resp: 6919
Ion Ratio Lower Upper
91 100
92 45.2 0.0 102.4
134 29.3 0.0 58.8



#87
1,2-Dichlorobenzene
Concen: 0.308 ug/l
RT: 13.997 min Scan# 4477
Delta R.T. 0.005 min
Lab File: VN068461.D
Acq: 13 Sep 2021 16:48

Tgt Ion: 146 Resp: 3770
Ion Ratio Lower Upper
146 100
111 37.8 18.6 56.0
148 66.6 31.9 95.5

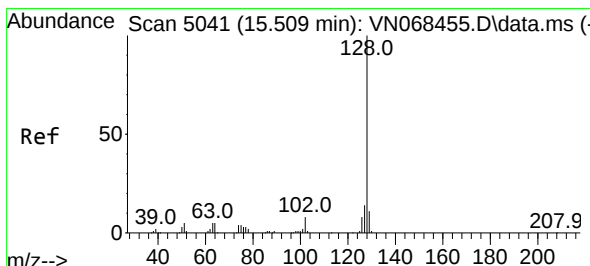
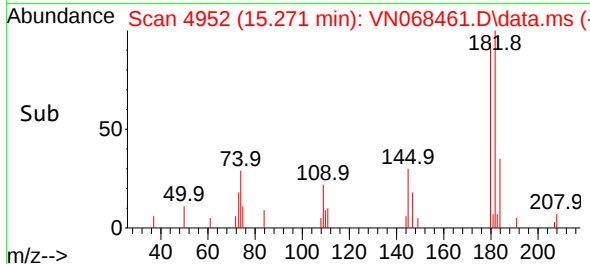
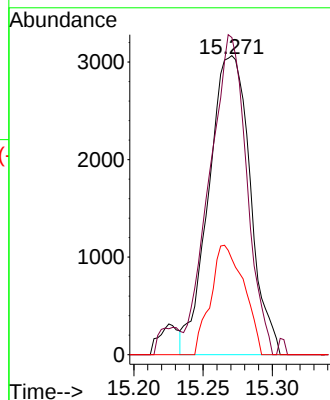
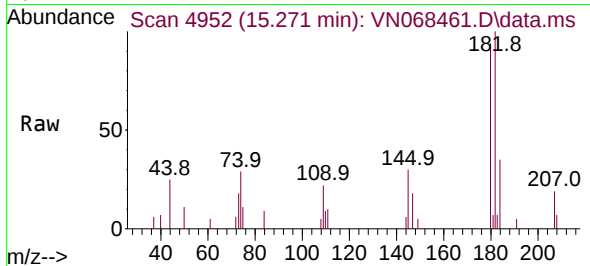




#89
1,2,4-Trichlorobenzene
Concen: 1.078 ug/l
RT: 15.271 min Scan# 4951
Delta R.T. 0.003 min
Lab File: VN068461.D
Acq: 13 Sep 2021 16:48

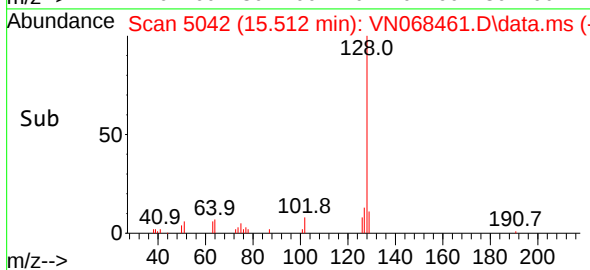
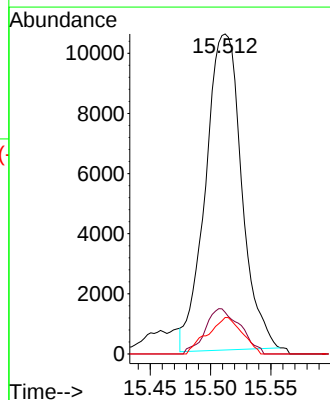
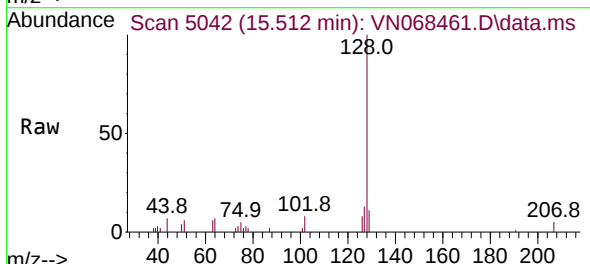
Instrument :
MSVOA_N
ClientSampleId :
VN0913WBL01

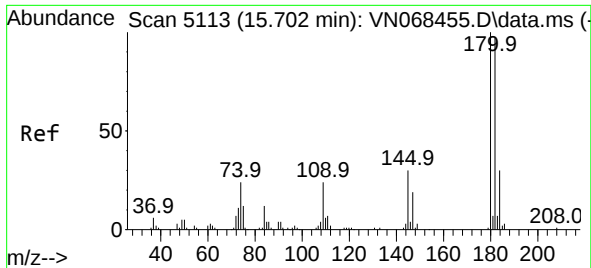
Tgt Ion:180 Resp: 6368
Ion Ratio Lower Upper
180 100
182 95.4 77.0 115.4
145 29.4 24.6 36.8



#91
Naphthalene
Concen: 1.719 ug/l
RT: 15.512 min Scan# 5042
Delta R.T. 0.003 min
Lab File: VN068461.D
Acq: 13 Sep 2021 16:48

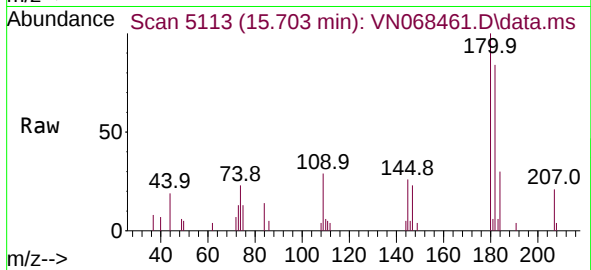
Tgt Ion:128 Resp: 21911
Ion Ratio Lower Upper
128 100
127 13.9 10.6 15.8
129 11.0 8.8 13.2





#92
 1,2,3-Trichlorobenzene
 Concen: 1.466 ug/l
 RT: 15.703 min Scan# 5113
 Delta R.T. 0.000 min
 Lab File: VN068461.D
 Acq: 13 Sep 2021 16:48

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0913WBL01



Tgt Ion:	180	Resp:	8160
Ion Ratio	Lower	Upper	
180	100		
182	87.4	0.0	191.2
145	8.2	0.0	61.8

