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 Data File : VN068696.D
 Acq On : 26 Sep 2021 5:19
 Operator : JC/MD
 Sample : M3895-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 43 Sample Multiplier: 1

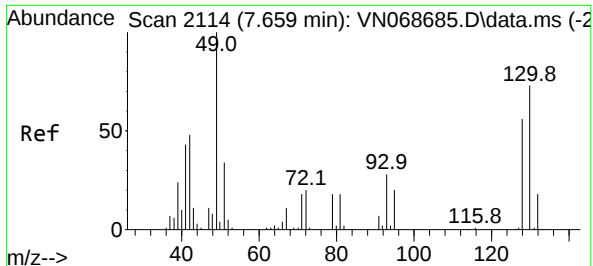
Instrument :
 MSVOA_N
 ClientSampleId :
 210922099-02-VOA

Quant Time: Sep 27 07:24:58 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N092521W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Sep 27 07:10:18 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.662	128	72460	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	413896	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.747	117	360361	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.437	65	197422	33.140	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 110.467%#			
60) 4-Bromofluorobenzene	12.731	95	153222	27.834	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 92.767%			
63) Toluene-d8	10.443	98	496945	31.160	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.867%			
Target Compounds						
					Qvalue	
4) Vinyl Chloride	2.440	62	1446	0.237	ug/l	99
8) Diethyl Ether	3.821	74	2933	1.125	ug/l #	5
13) Acrolein	4.044	56	82	0.328	ug/l #	43
15) Acetone	4.293	58	15072	25.592	ug/l	93
16) Carbon Disulfide	4.532	76	5229	0.469	ug/l #	74
17) Allyl chloride	4.572	41	3777	0.514	ug/l	81
23) tert-Butyl Alcohol	5.363	59	1851308	2318.765	ug/l #	100
24) Methyl tert-Butyl Ether	5.618	73	22837	1.610	ug/l #	72
30) 2-Butanone	7.313	43	139401	39.610	ug/l #	82
31) 2,2-Dichloropropane	7.313	77	161713	27.708	ug/l #	53
34) Benzene	8.467	78	64898	3.178	ug/l #	84
35) Methacrylonitrile	7.683	41	340709	89.780	ug/l #	51
44) Isopropyl Acetate	8.526	43	5880	0.435	ug/l #	56
45) 1,4-Dioxane	9.569	88	3196	36.662	ug/l	98
47) n-amyl Acetate	11.985	43	11040	0.901	ug/l	98
58) 4-Methyl-2-Pentanone	10.330	43	24856	3.536	ug/l	96
59) 2-Hexanone	11.057	43	13565	2.525	ug/l #	37
62) Toluene	10.507	91	27202	1.382	ug/l	98
64) Chlorobenzene	11.773	112	7701	0.611	ug/l	99
67) m/p-Xylenes	11.956	106	60828	7.111	ug/l	95
68) o-Xylene	12.283	106	34922	4.211	ug/l	95
70) Isopropylbenzene	12.581	105	5876	0.277	ug/l	94
76) 1,3,5-Trimethylbenzene	13.061	105	13210	0.777	ug/l	100
79) tert-butylbenzene	13.560	119	2964	0.202	ug/l	64
80) 1,2,4-Trimethylbenzene	13.369	105	43482	2.700	ug/l #	80
82) p-Isopropyltoluene	13.616	119	4754	0.296	ug/l	90
83) 1,3-Dichlorobenzene	13.696	146	29949	3.805	ug/l	96
84) 1,4-Dichlorobenzene	13.696	146	29949	3.935	ug/l	97
87) 1,2-Dichlorobenzene	13.991	146	3395	0.443	ug/l	97
89) 1,2,4-Trichlorobenzene	15.268	180	1146	0.302	ug/l #	13
91) Naphthalene	15.507	128	9016	0.868	ug/l #	84

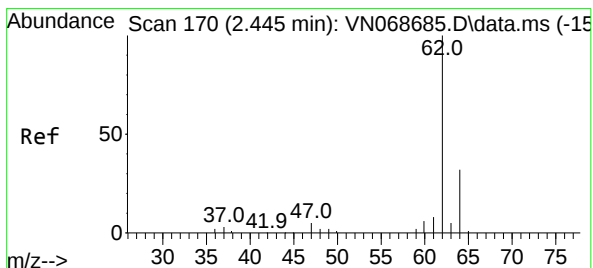
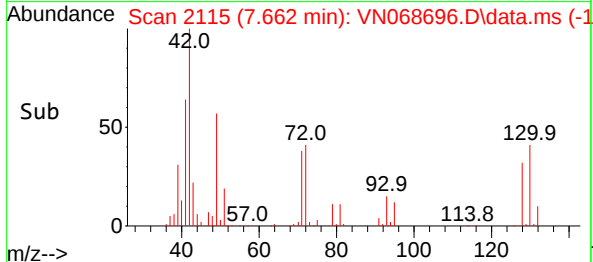
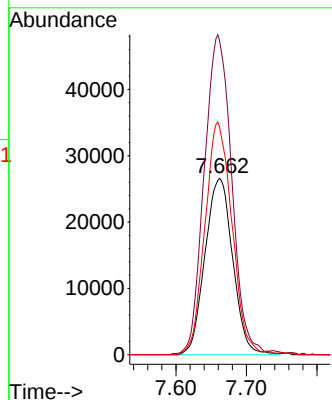
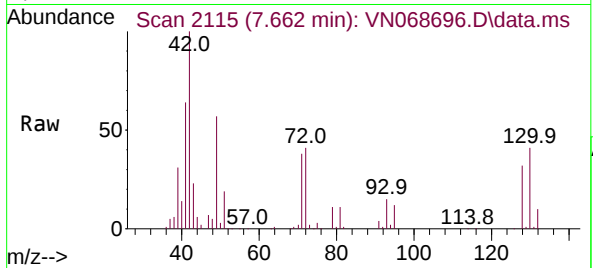
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.662 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VN068696.D
Acq: 26 Sep 2021 5:19

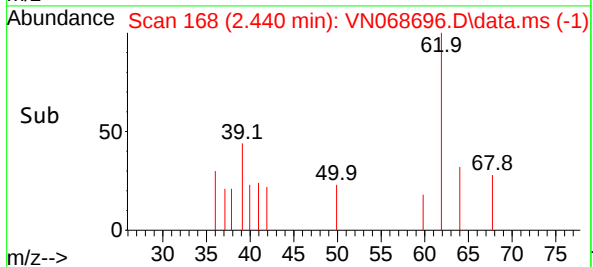
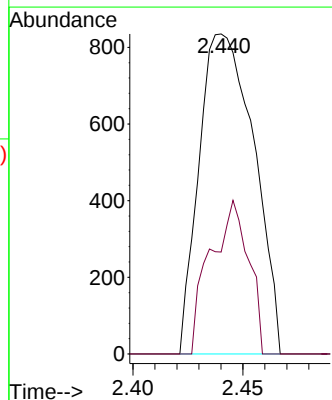
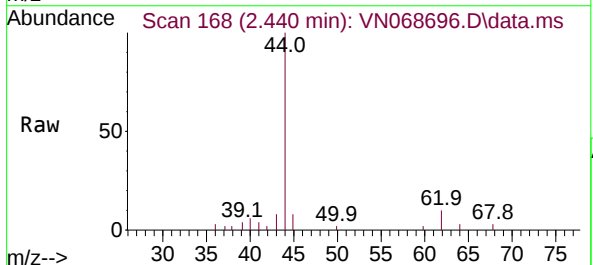
Instrument :
MSVOA_N
ClientSampleId :
210922099-02-VOA

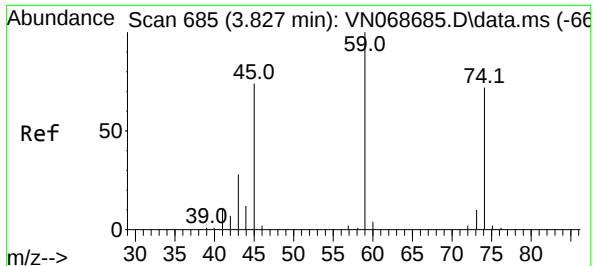
Tgt Ion:128 Resp: 72460
Ion Ratio Lower Upper
128 100
49 177.9 0.0 450.0
130 128.6 0.0 319.5



#4
Vinyl Chloride
Concen: 0.237 ug/l
RT: 2.440 min Scan# 168
Delta R.T. -0.005 min
Lab File: VN068696.D
Acq: 26 Sep 2021 5:19

Tgt Ion: 62 Resp: 1446
Ion Ratio Lower Upper
62 100
64 31.9 25.2 37.8

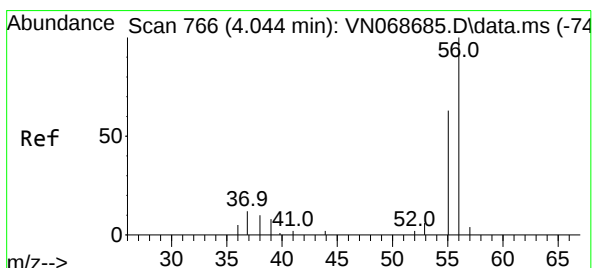
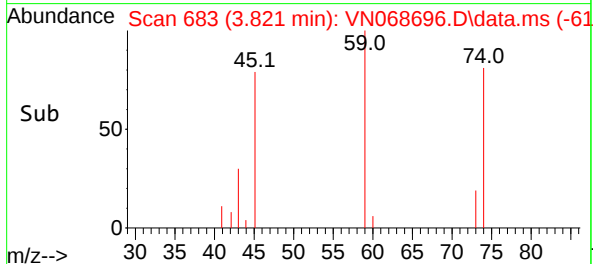
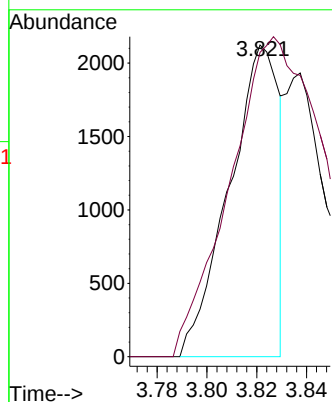
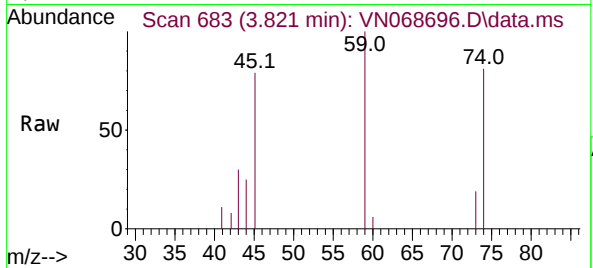




#8
Diethyl Ether
Concen: 1.125 ug/l
RT: 3.821 min Scan# 683
Delta R.T. -0.005 min
Lab File: VN068696.D
Acq: 26 Sep 2021 5:19

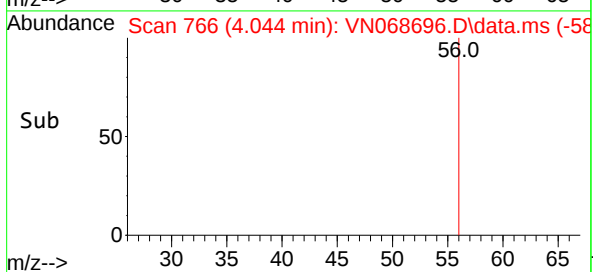
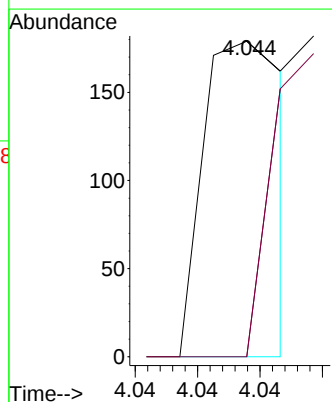
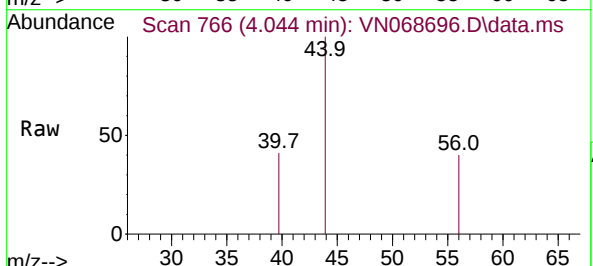
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ClientSampleId :
210922099-02-VOA

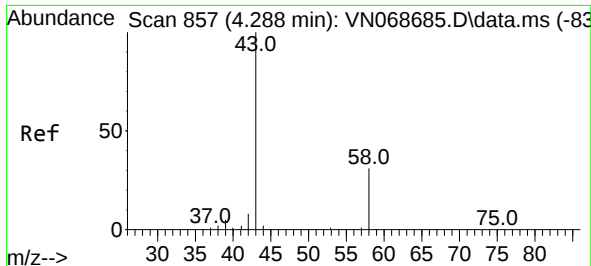
Tgt Ion: 74 Resp: 2933
Ion Ratio Lower Upper
74 100
45 204.3 21.2 191.0#



#13
Acrolein
Concen: 0.328 ug/l
RT: 4.044 min Scan# 766
Delta R.T. 0.000 min
Lab File: VN068696.D
Acq: 26 Sep 2021 5:19

Tgt Ion: 56 Resp: 82
Ion Ratio Lower Upper
56 100
55 0.0 25.4 38.0#

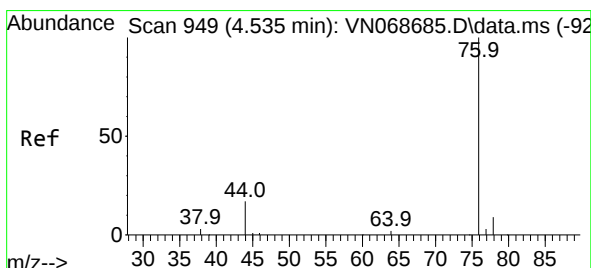
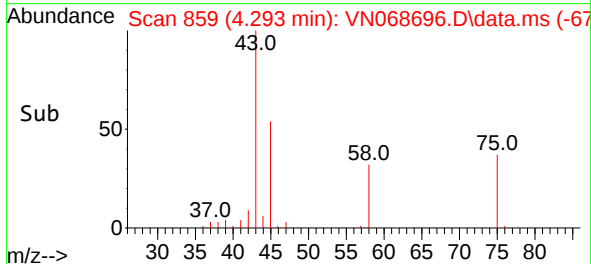
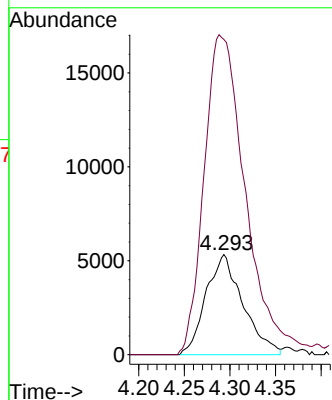
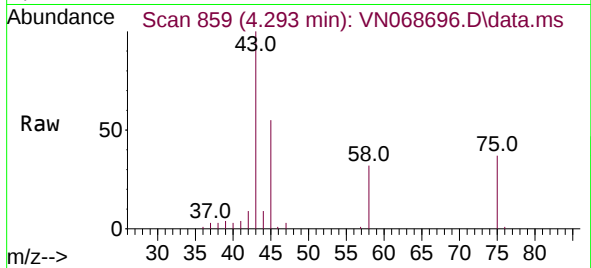




#15
Acetone
Concen: 25.592 ug/l
RT: 4.293 min Scan# 859
Delta R.T. 0.005 min
Lab File: VN068696.D
Acq: 26 Sep 2021 5:19

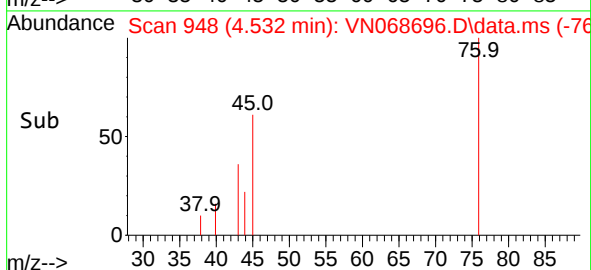
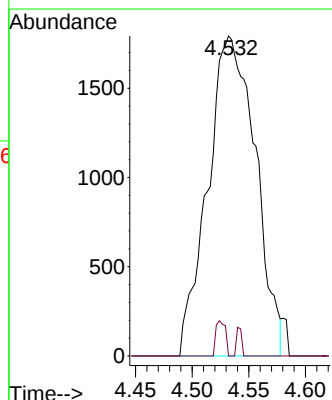
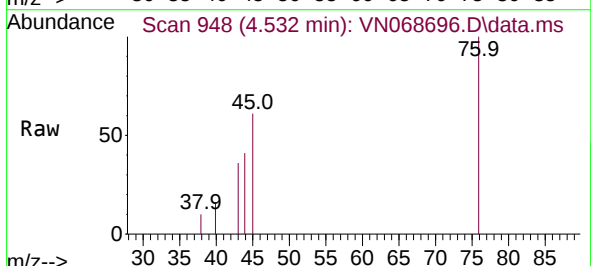
Instrument :
MSVOA_N
ClientSampleId :
210922099-02-VOA

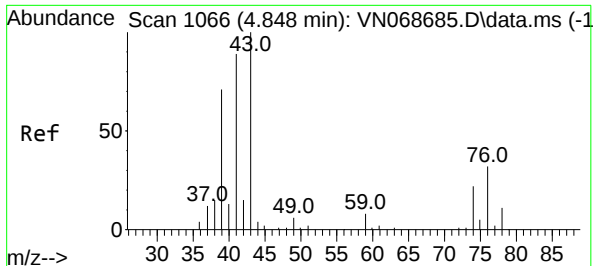
Tgt Ion: 58 Resp: 15072
Ion Ratio Lower Upper
58 100
43 310.7 261.0 391.4



#16
Carbon Disulfide
Concen: 0.469 ug/l
RT: 4.532 min Scan# 948
Delta R.T. -0.003 min
Lab File: VN068696.D
Acq: 26 Sep 2021 5:19

Tgt Ion: 76 Resp: 5229
Ion Ratio Lower Upper
76 100
78 0.0 7.5 11.3#





#17

Allyl chloride

Concen: 0.514 ug/l

RT: 4.572 min Scan# 963

Delta R.T. -0.276 min

Lab File: VN068696.D

Acq: 26 Sep 2021 5:19

Instrument :

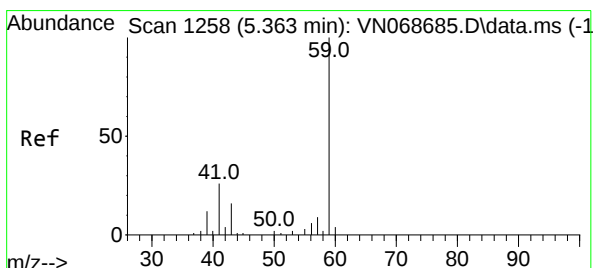
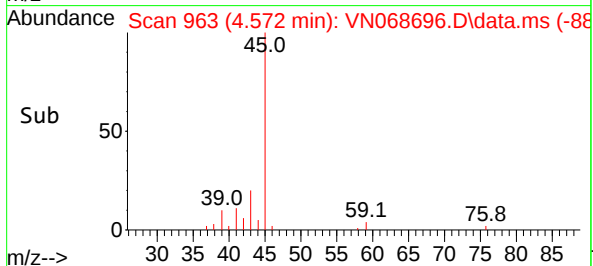
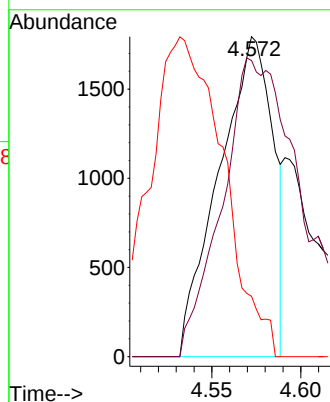
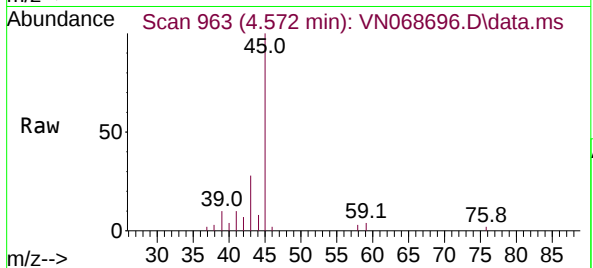
MSVOA_N

ClientSampleId :

210922099-02-VOA

Tgt Ion: 41 Resp: 3777

Ion	Ratio	Lower	Upper
41	100		
39	92.5	40.1	120.3
76	18.8	18.3	54.9



#23

tert-Butyl Alcohol

Concen: 2318.765 ug/l

RT: 5.363 min Scan# 1258

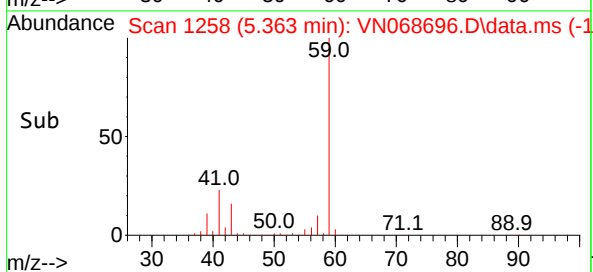
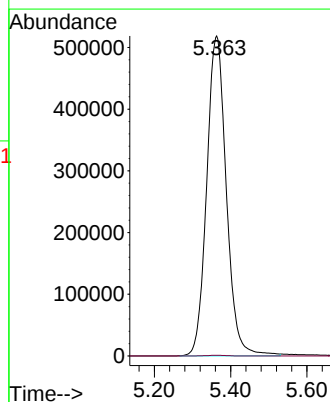
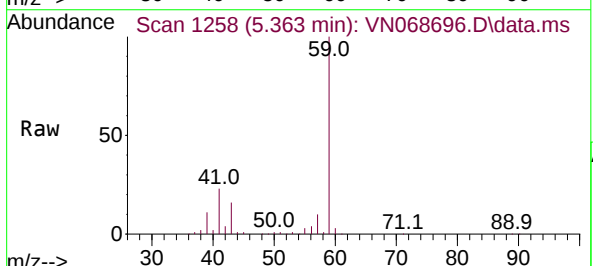
Delta R.T. 0.000 min

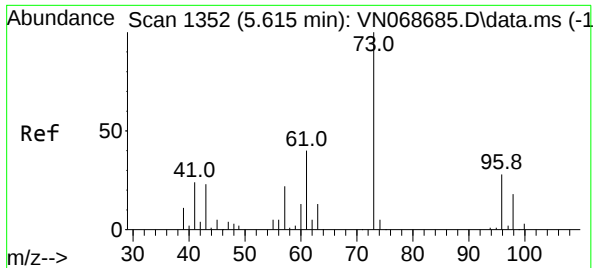
Lab File: VN068696.D

Acq: 26 Sep 2021 5:19

Tgt Ion: 59 Resp: 1851308

Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0#

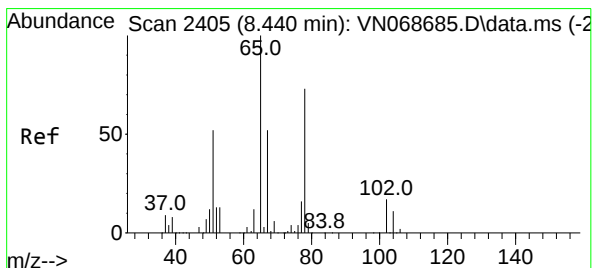
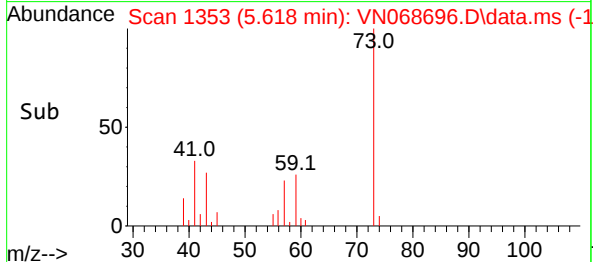
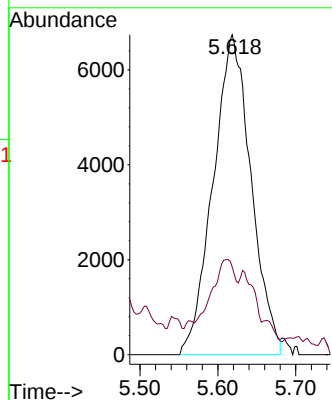
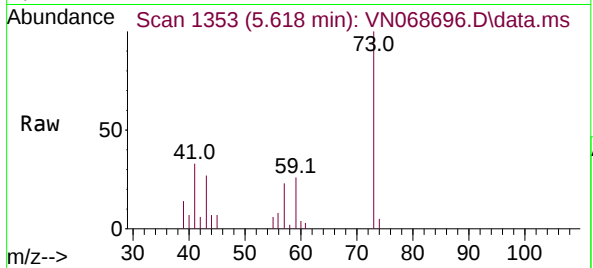




#24
Methyl tert-Butyl Ether
Concen: 1.610 ug/l
RT: 5.618 min Scan# 1353
Delta R.T. 0.003 min
Lab File: VN068696.D
Acq: 26 Sep 2021 5:19

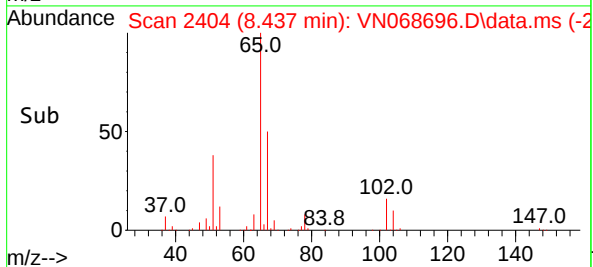
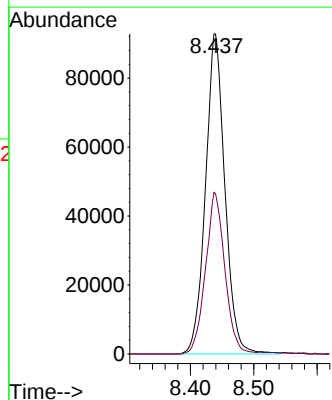
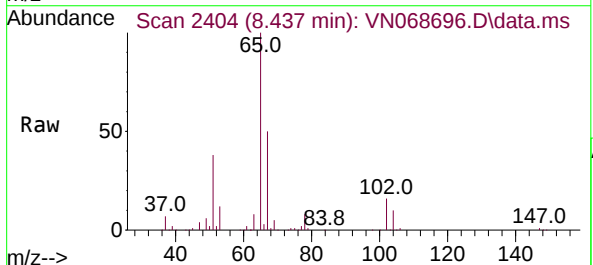
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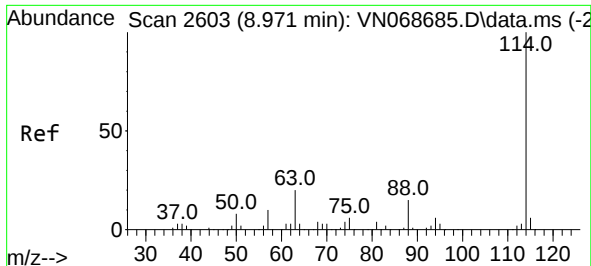
Tgt Ion: 73 Resp: 22837
Ion Ratio Lower Upper
73 100
43 8.6 17.7 26.5#



#27
1,2-Dichloroethane-d4
Concen: 33.140 ug/l
RT: 8.437 min Scan# 2404
Delta R.T. -0.003 min
Lab File: VN068696.D
Acq: 26 Sep 2021 5:19

Tgt Ion: 65 Resp: 197422
Ion Ratio Lower Upper
65 100
67 50.2 41.0 61.6

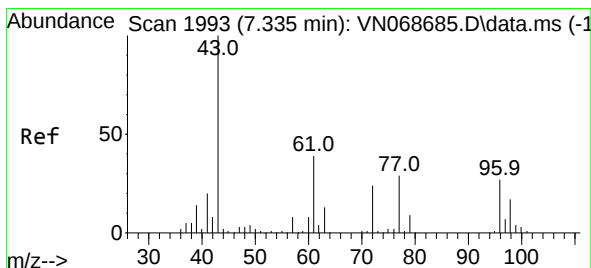
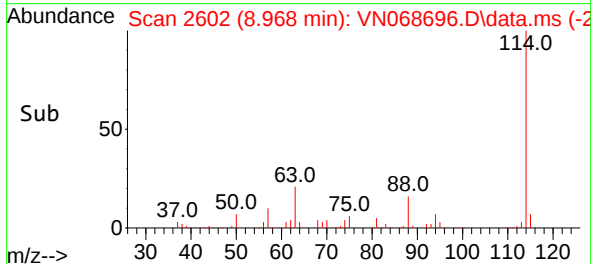
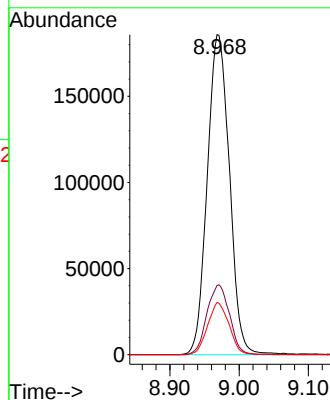
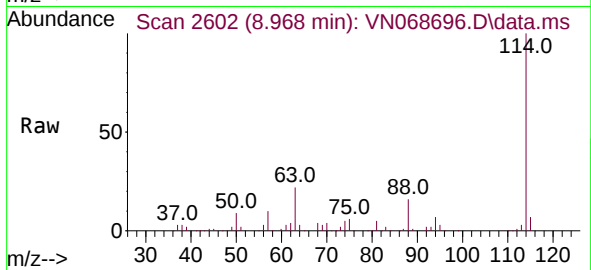




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 8.968 min Scan# 2602
Delta R.T. -0.003 min
Lab File: VN068696.D
Acq: 26 Sep 2021 5:19

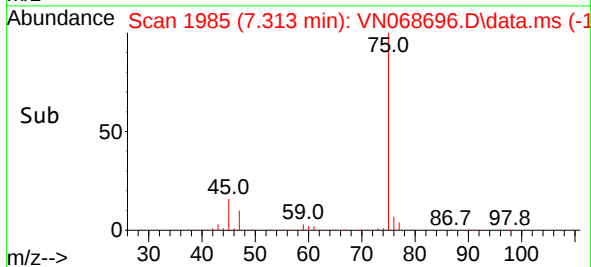
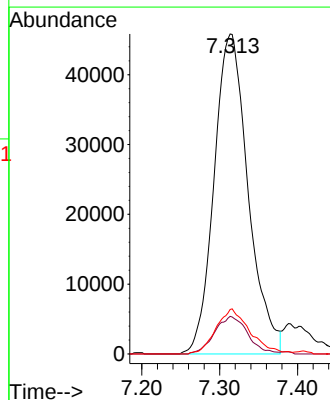
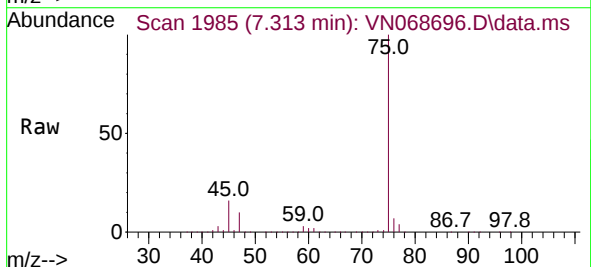
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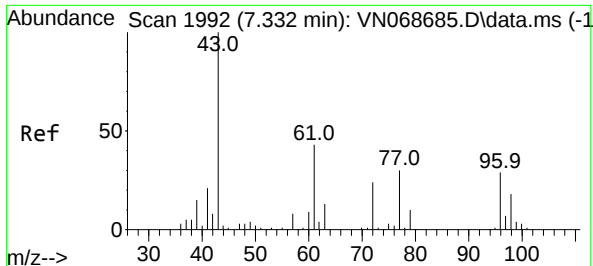
Tgt Ion:114 Resp: 413896
Ion Ratio Lower Upper
114 100
63 22.1 17.1 25.7
88 15.7 12.2 18.4



#30
2-Butanone
Concen: 39.610 ug/l
RT: 7.313 min Scan# 1985
Delta R.T. -0.021 min
Lab File: VN068696.D
Acq: 26 Sep 2021 5:19

Tgt Ion: 43 Resp: 139401
Ion Ratio Lower Upper
43 100
57 11.1 6.4 9.6#
72 13.9 19.6 29.4#

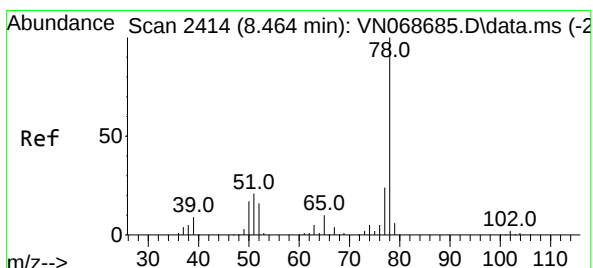
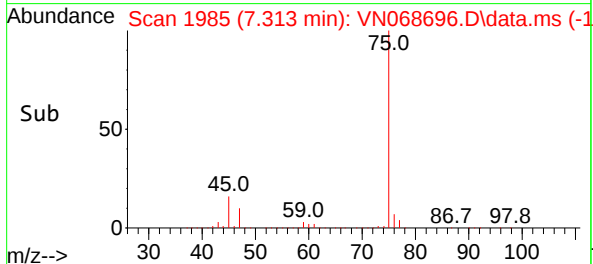
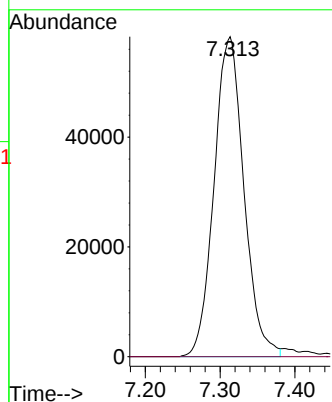
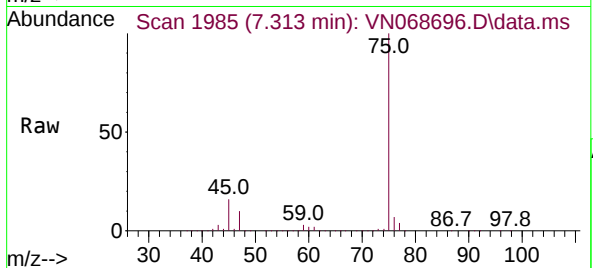




#31
2,2-Dichloropropane
Concen: 27.708 ug/l
RT: 7.313 min Scan# 1985
Delta R.T. -0.019 min
Lab File: VN068696.D
Acq: 26 Sep 2021 5:19

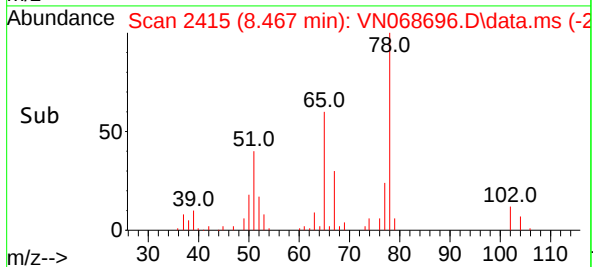
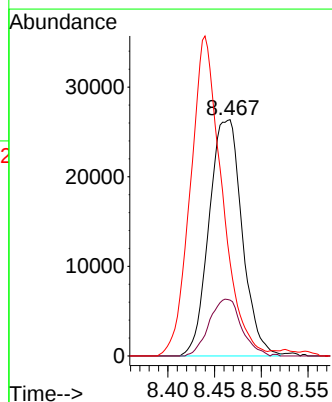
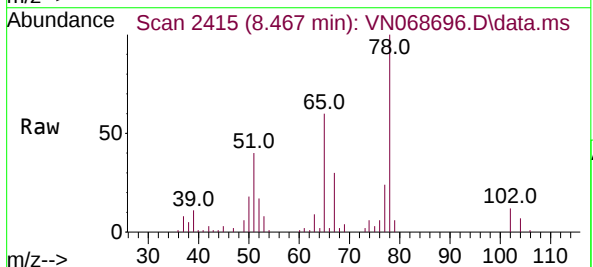
Instrument :
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ClientSampleId :
210922099-02-VOA

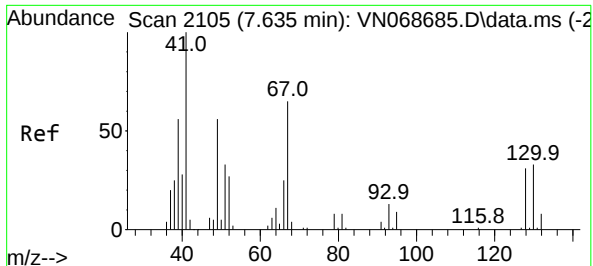
Tgt Ion: 77 Resp: 161713
Ion Ratio Lower Upper
77 100
97 0.0 17.9 26.9#



#34
Benzene
Concen: 3.178 ug/l
RT: 8.467 min Scan# 2415
Delta R.T. 0.003 min
Lab File: VN068696.D
Acq: 26 Sep 2021 5:19

Tgt Ion: 78 Resp: 64898
Ion Ratio Lower Upper
78 100
77 23.7 19.1 28.7
51 37.3 17.2 25.8#

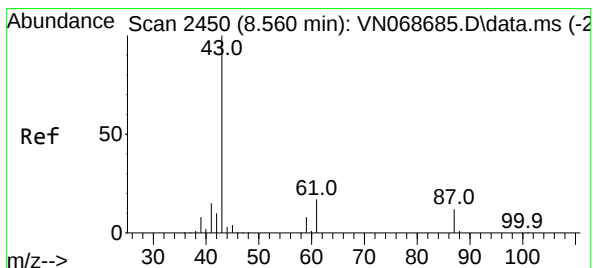
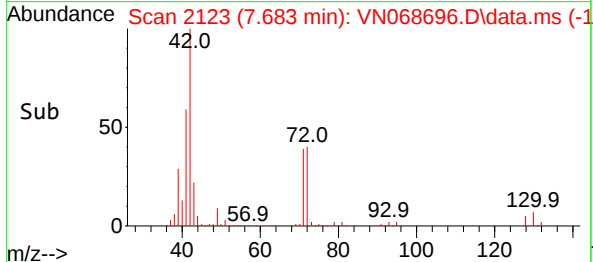
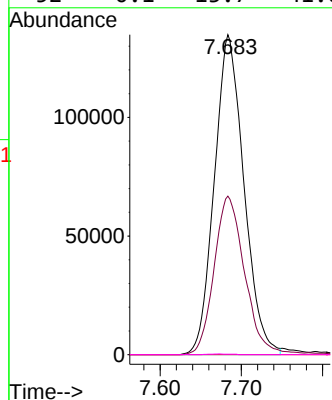
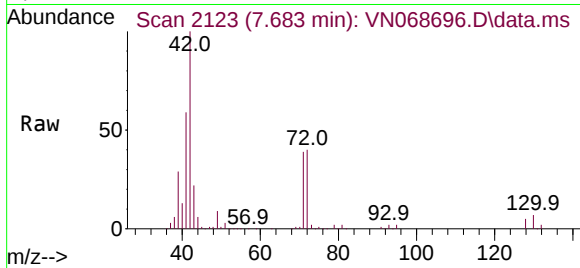




#35
Methacrylonitrile
Concen: 89.780 ug/l
RT: 7.683 min Scan# 2123
Delta R.T. 0.048 min
Lab File: VN068696.D
Acq: 26 Sep 2021 5:19

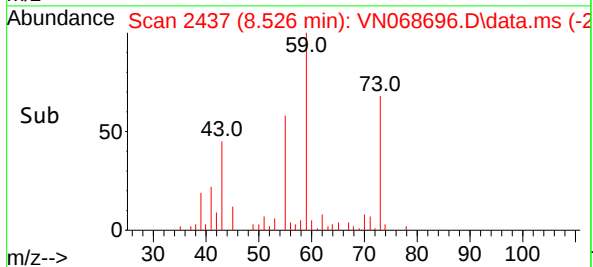
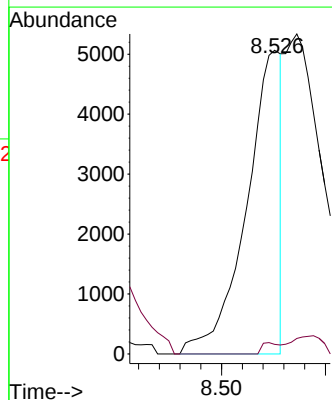
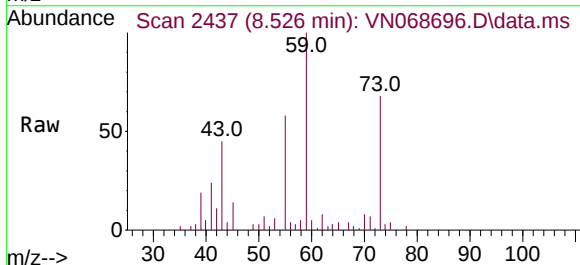
Instrument :
MSVOA_N
ClientSampleId :
210922099-02-VOA

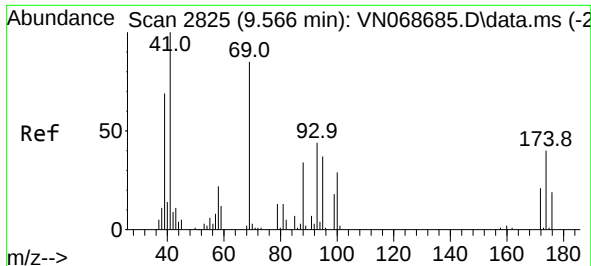
Tgt Ion:	41	Resp:	340709
Ion	Ratio	Lower	Upper
41	100		
39	49.5	28.2	84.7
67	0.0	32.5	97.4#
52	0.1	13.7	41.0#



#44
Isopropyl Acetate
Concen: 0.435 ug/l
RT: 8.526 min Scan# 2437
Delta R.T. -0.035 min
Lab File: VN068696.D
Acq: 26 Sep 2021 5:19

Tgt Ion:	43	Resp:	5880
Ion	Ratio	Lower	Upper
43	100		
61	1.9	18.5	27.7#

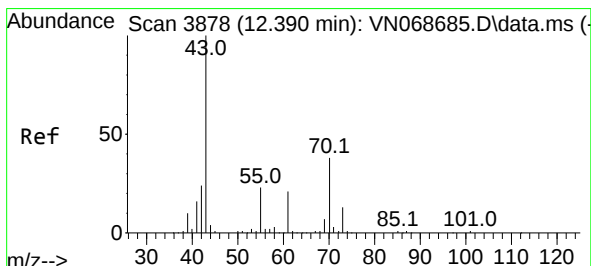
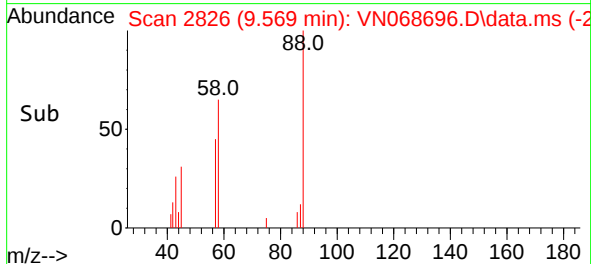
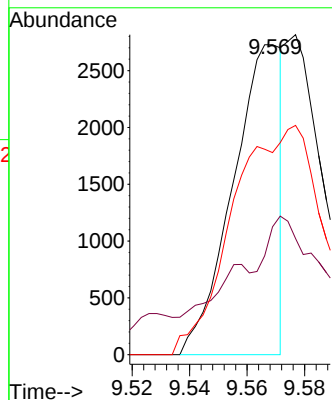
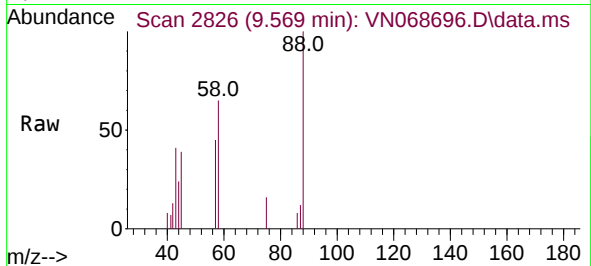




#45
1,4-Dioxane
Concen: 36.662 ug/l
RT: 9.569 min Scan# 2826
Delta R.T. 0.003 min
Lab File: VN068696.D
Acq: 26 Sep 2021 5:19

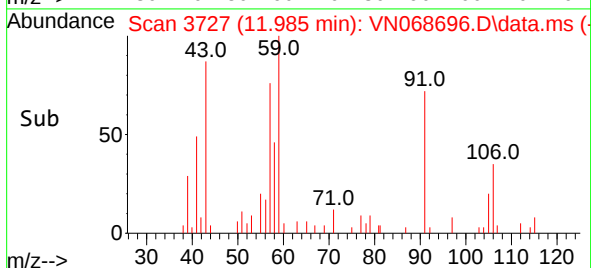
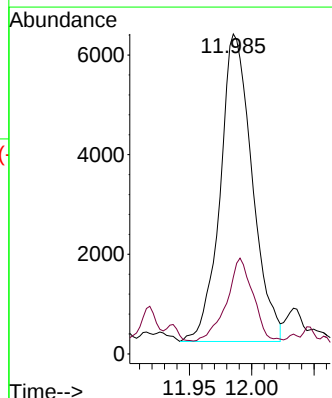
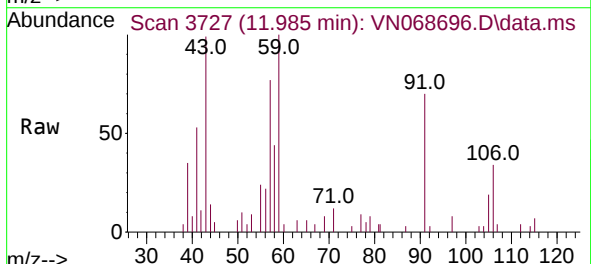
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MSVOA_N
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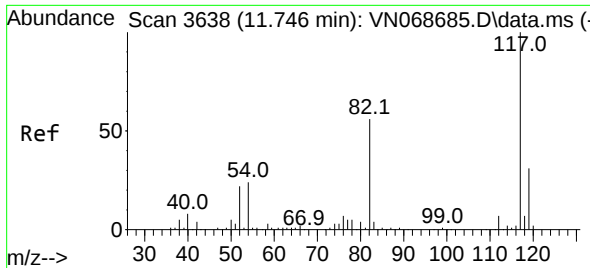
Tgt Ion: 88 Resp: 3196
Ion Ratio Lower Upper
88 100
43 35.8 27.3 40.9
58 67.4 55.0 82.6



#47
n-amy1 Acetate
Concen: 0.901 ug/l
RT: 11.985 min Scan# 3727
Delta R.T. -0.405 min
Lab File: VN068696.D
Acq: 26 Sep 2021 5:19

Tgt Ion: 43 Resp: 11040
Ion Ratio Lower Upper
43 100
55 22.1 18.6 27.8

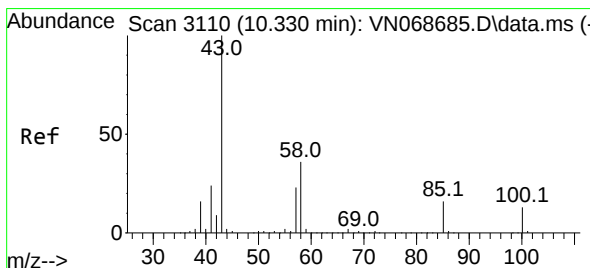
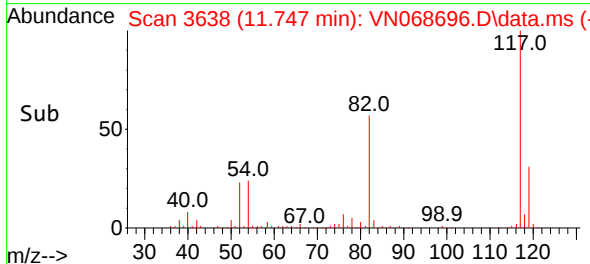
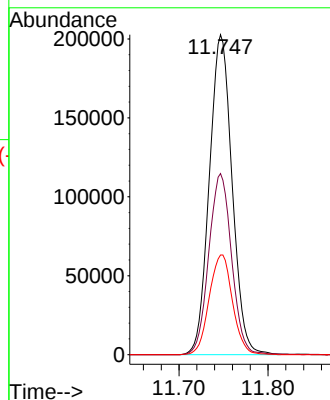
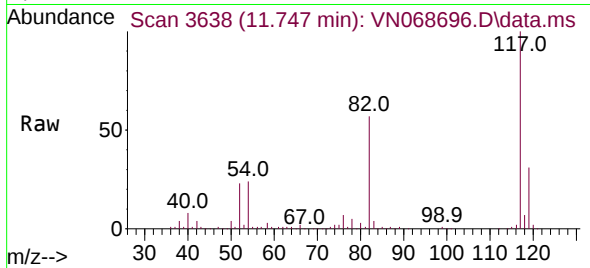




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VN068696.D
Acq: 26 Sep 2021 5:19

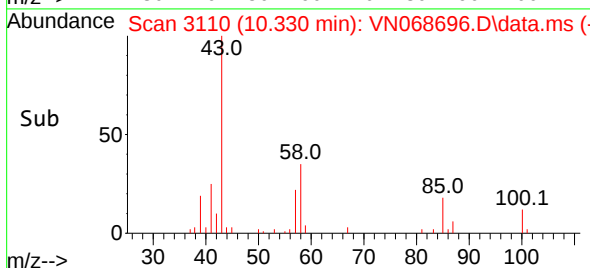
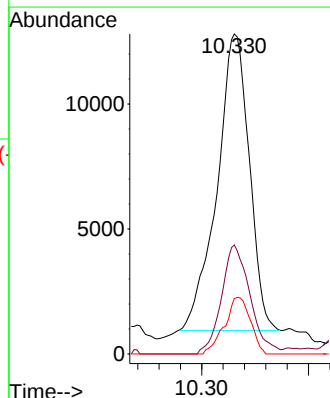
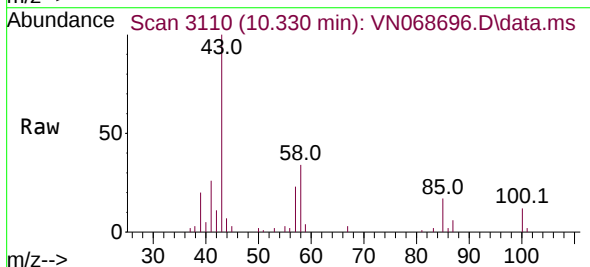
Instrument :
MSVOA_N
ClientSampleId :
210922099-02-VOA

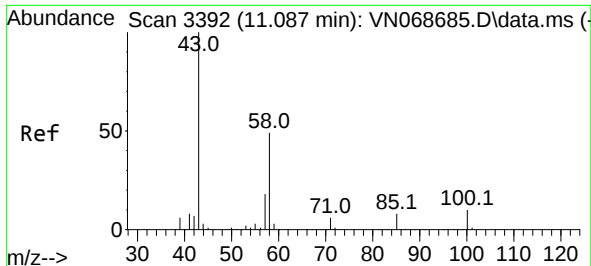
Tgt Ion:	117	Resp:	360361
Ion	Ratio	Lower	Upper
117	100		
82	56.8	44.6	66.8
119	31.9	25.7	38.5



#58
4-Methyl-2-Pentanone
Concen: 3.536 ug/l
RT: 10.330 min Scan# 3110
Delta R.T. 0.000 min
Lab File: VN068696.D
Acq: 26 Sep 2021 5:19

Tgt Ion:	43	Resp:	24856
Ion	Ratio	Lower	Upper
43	100		
58	32.5	28.5	42.7
85	15.3	12.8	19.2

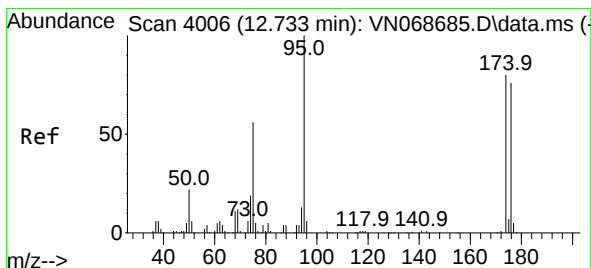
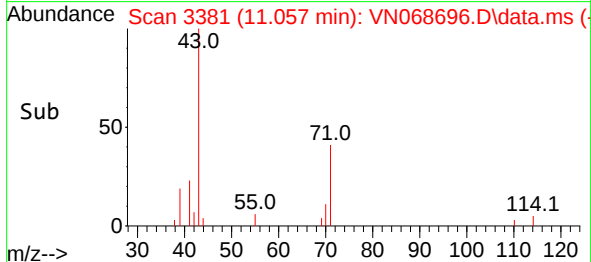
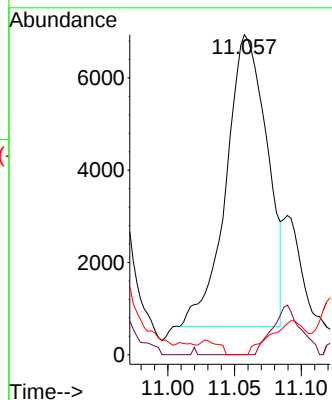
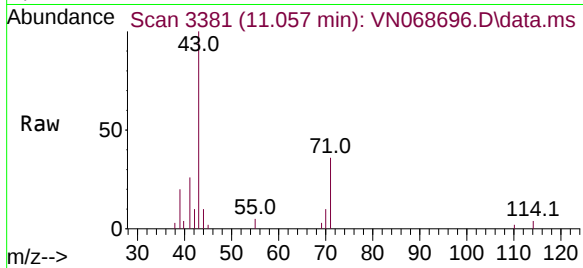




#59
2-Hexanone
Concen: 2.525 ug/l
RT: 11.057 min Scan# 3381
Delta R.T. -0.029 min
Lab File: VN068696.D
Acq: 26 Sep 2021 5:19

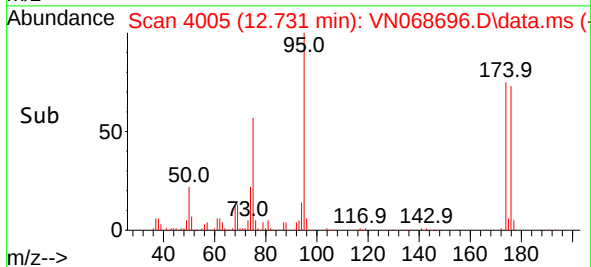
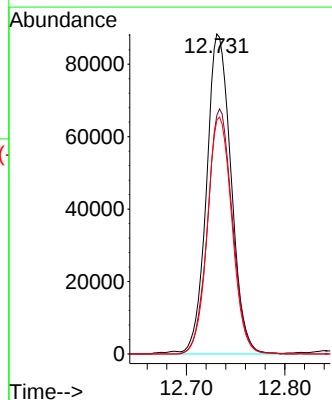
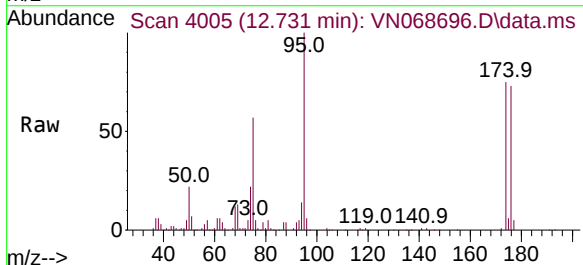
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MSVOA_N
ClientSampleId :
210922099-02-VOA

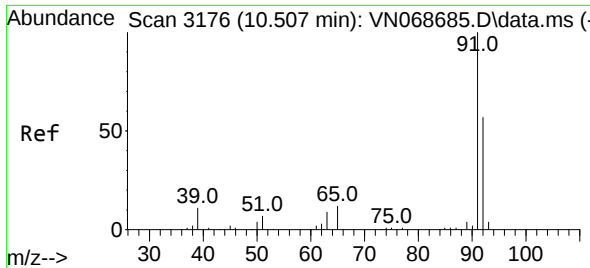
Tgt Ion: 43 Resp: 13565
Ion Ratio Lower Upper
43 100
58 0.0 39.5 59.3#
57 0.4 14.3 21.5#



#60
4-Bromofluorobenzene
Concen: 27.834 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.003 min
Lab File: VN068696.D
Acq: 26 Sep 2021 5:19

Tgt Ion: 95 Resp: 153222
Ion Ratio Lower Upper
95 100
174 77.3 63.0 94.6
176 74.4 60.6 90.8

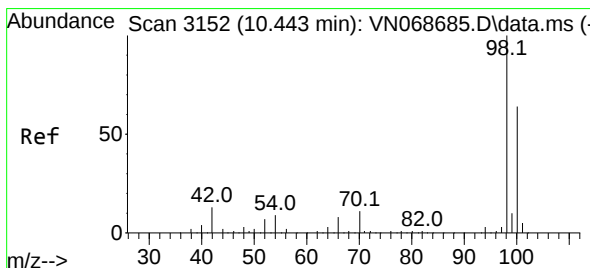
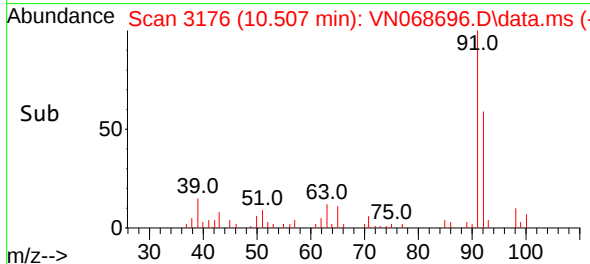
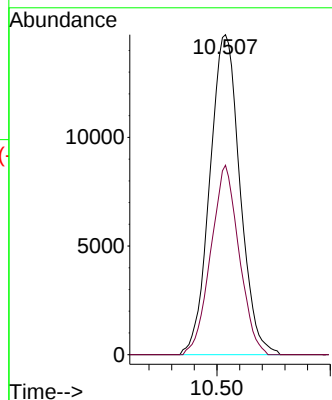
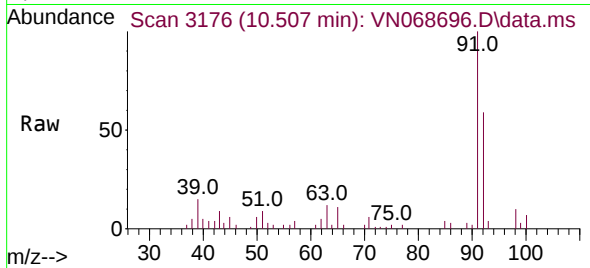




#62
Toluene
Concen: 1.382 ug/l
RT: 10.507 min Scan# 3176
Delta R.T. 0.000 min
Lab File: VN068696.D
Acq: 26 Sep 2021 5:19

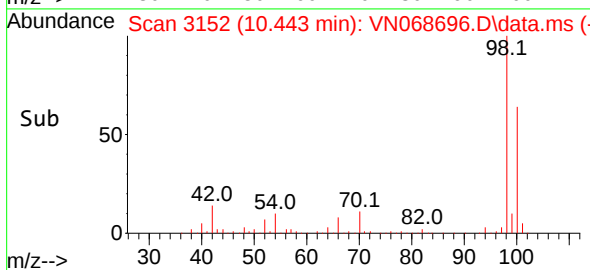
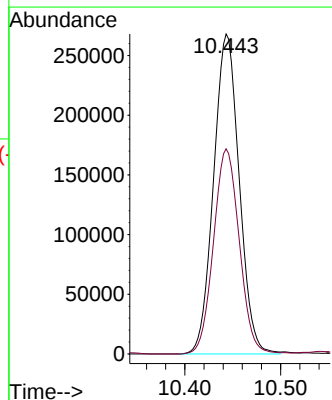
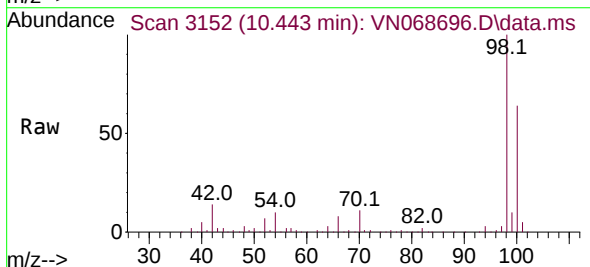
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ClientSampleId :
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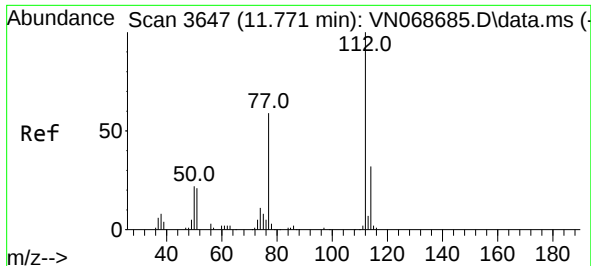
Tgt Ion: 91 Resp: 27202
Ion Ratio Lower Upper
91 100
92 55.5 45.7 68.5



#63
Toluene-d8
Concen: 31.160 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN068696.D
Acq: 26 Sep 2021 5:19

Tgt Ion: 98 Resp: 496945
Ion Ratio Lower Upper
98 100
100 64.5 51.4 77.2

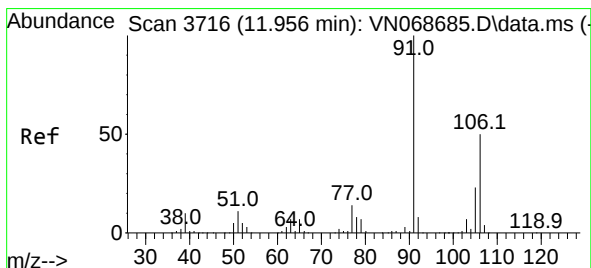
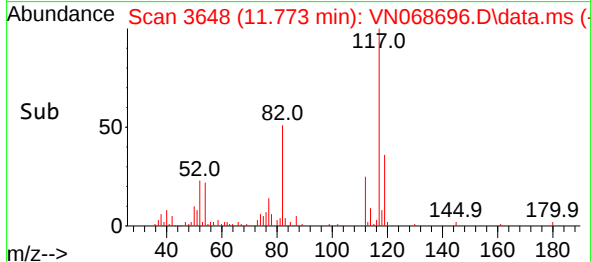
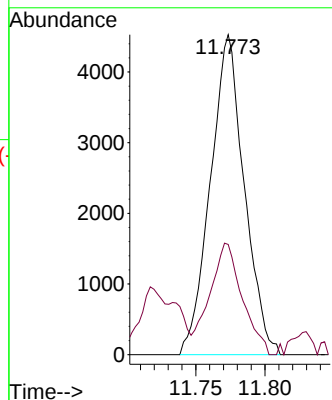
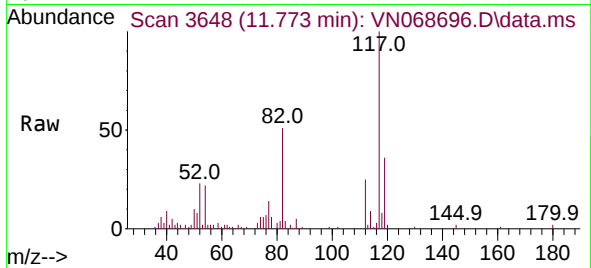




#64
Chlorobenzene
Concen: 0.611 ug/l
RT: 11.773 min Scan# 3648
Delta R.T. 0.003 min
Lab File: VN068696.D
Acq: 26 Sep 2021 5:19

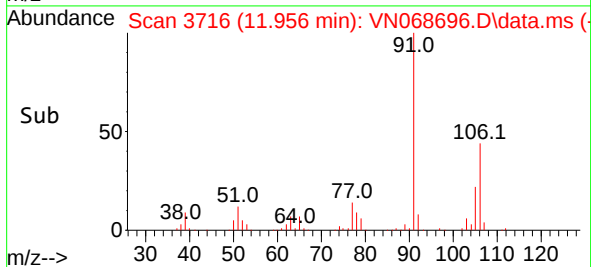
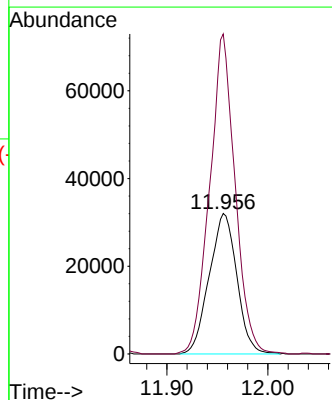
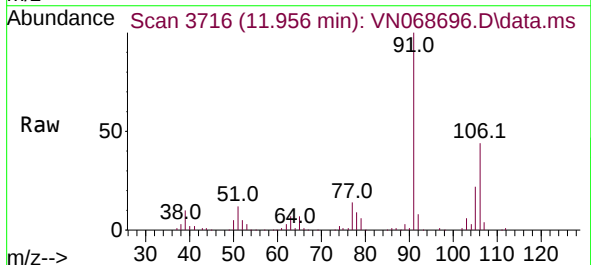
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ClientSampleId :
210922099-02-VOA

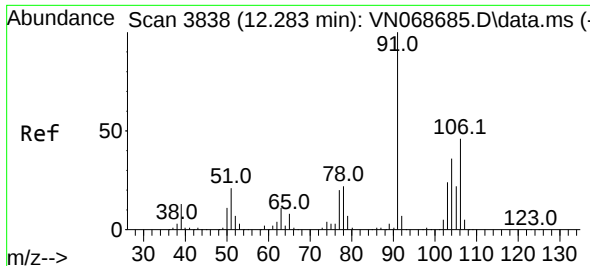
Tgt Ion:112 Resp: 7701
Ion Ratio Lower Upper
112 100
114 31.0 25.2 37.8



#67
m/p-Xylenes
Concen: 7.111 ug/l
RT: 11.956 min Scan# 3716
Delta R.T. 0.000 min
Lab File: VN068696.D
Acq: 26 Sep 2021 5:19

Tgt Ion:106 Resp: 60828
Ion Ratio Lower Upper
106 100
91 209.6 161.8 242.6

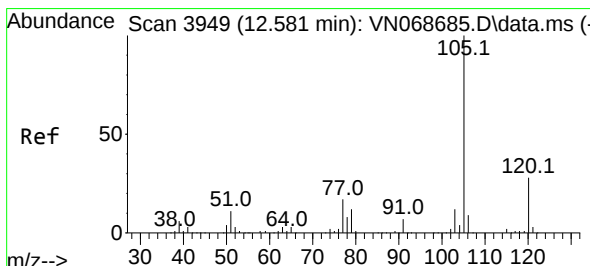
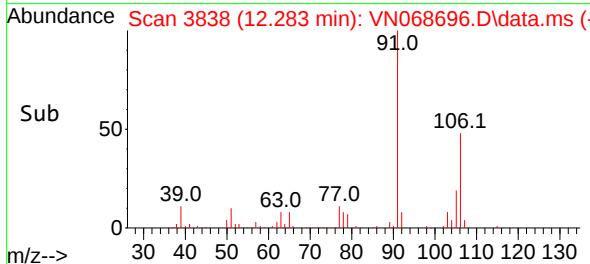
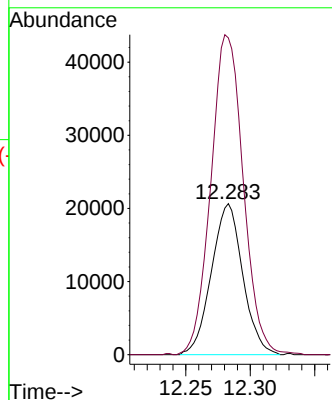
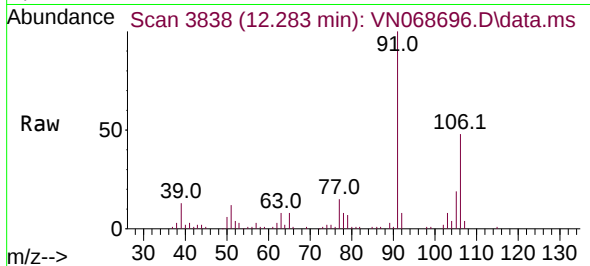




#68
o-Xylene
Concen: 4.211 ug/l
RT: 12.283 min Scan# 3838
Delta R.T. 0.000 min
Lab File: VN068696.D
Acq: 26 Sep 2021 5:19

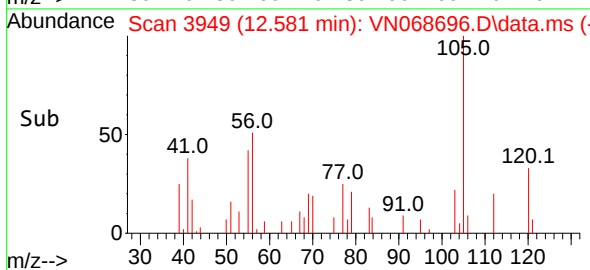
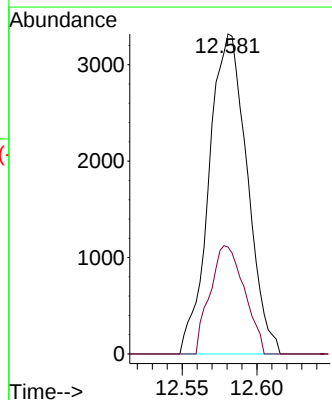
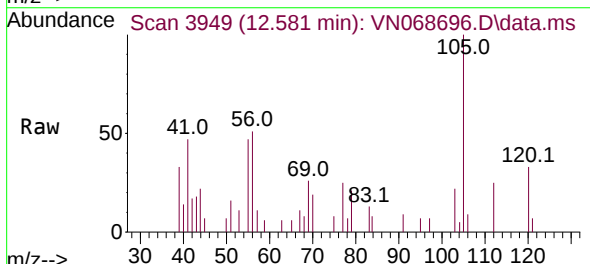
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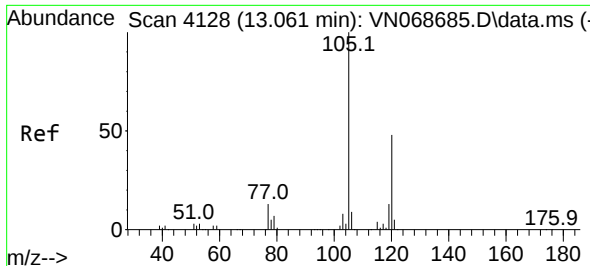
Tgt Ion:106 Resp: 34922
Ion Ratio Lower Upper
106 100
91 219.3 105.9 317.7



#70
Isopropylbenzene
Concen: 0.277 ug/l
RT: 12.581 min Scan# 3949
Delta R.T. 0.000 min
Lab File: VN068696.D
Acq: 26 Sep 2021 5:19

Tgt Ion:105 Resp: 5876
Ion Ratio Lower Upper
105 100
120 30.4 19.0 35.4

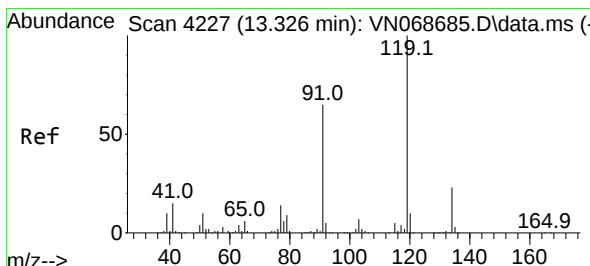
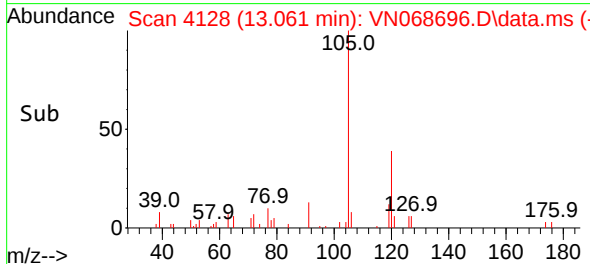
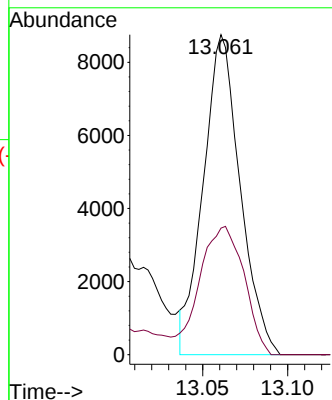
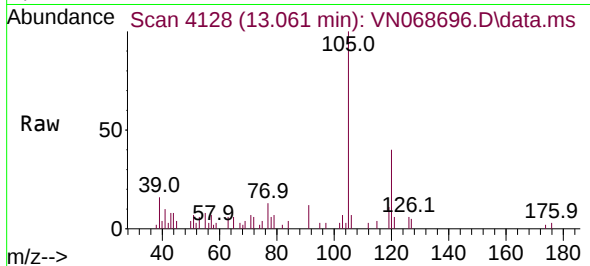




#76
1,3,5-Trimethylbenzene
Concen: 0.777 ug/l
RT: 13.061 min Scan# 4128
Delta R.T. 0.000 min
Lab File: VN068696.D
Acq: 26 Sep 2021 5:19

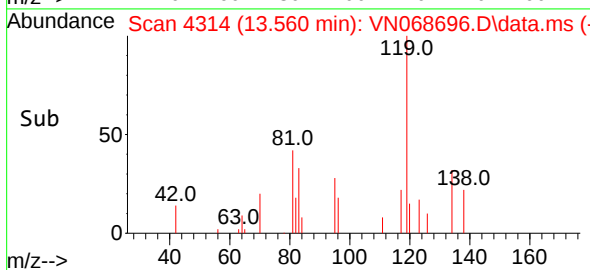
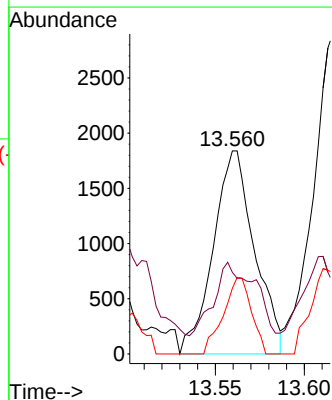
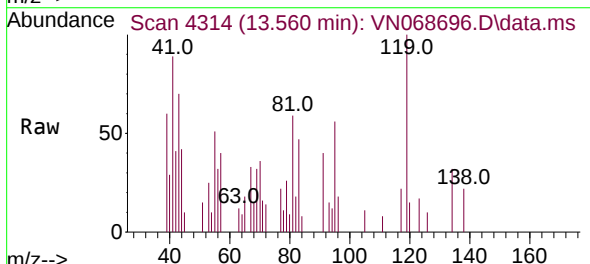
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ClientSampleId :
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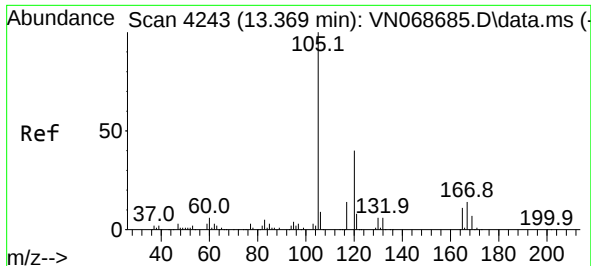
Tgt Ion:105 Resp: 13210
Ion Ratio Lower Upper
105 100
120 48.7 0.0 98.0



#79
tert-butylbenzene
Concen: 0.202 ug/l
RT: 13.560 min Scan# 4314
Delta R.T. 0.233 min
Lab File: VN068696.D
Acq: 26 Sep 2021 5:19

Tgt Ion:119 Resp: 2964
Ion Ratio Lower Upper
119 100
91 28.0 0.0 133.8
134 25.4 0.0 48.6

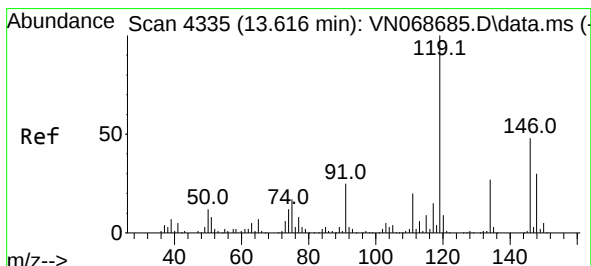
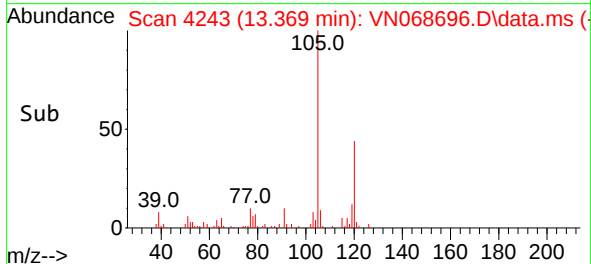
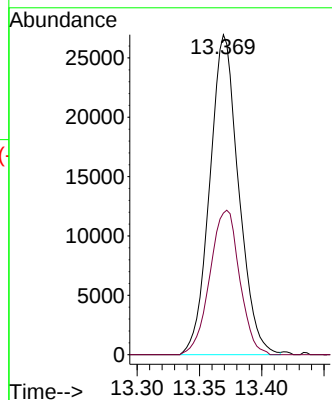
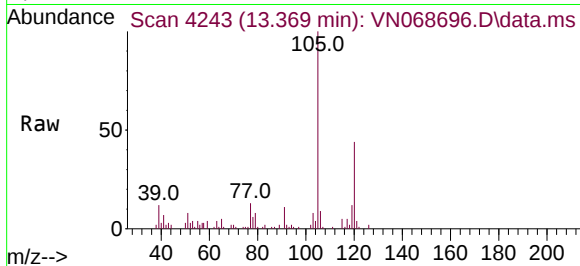




#80
1,2,4-Trimethylbenzene
Concen: 2.700 ug/l
RT: 13.369 min Scan# 4243
Delta R.T. 0.000 min
Lab File: VN068696.D
Acq: 26 Sep 2021 5:19

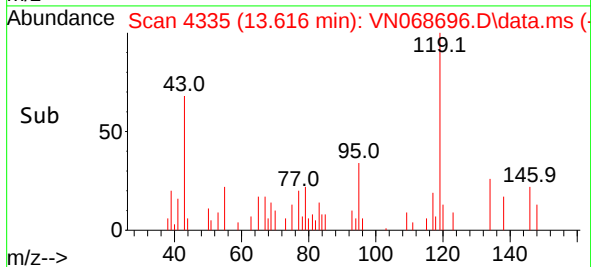
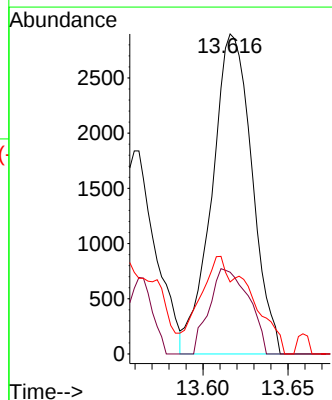
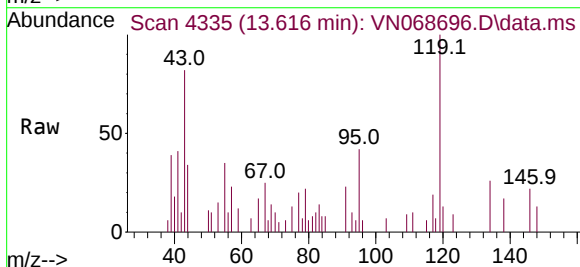
Instrument :
MSVOA_N
ClientSampleId :
210922099-02-VOA

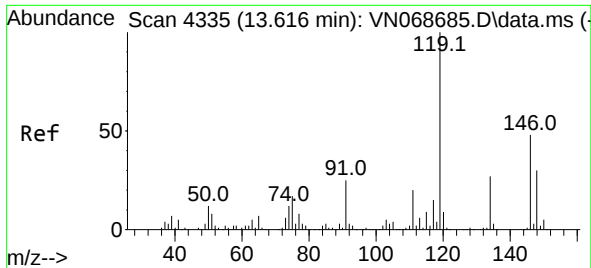
Tgt Ion:105 Resp: 43482
Ion Ratio Lower Upper
105 100
120 46.4 0.0 0.2#



#82
p-Isopropyltoluene
Concen: 0.296 ug/l
RT: 13.616 min Scan# 4335
Delta R.T. 0.000 min
Lab File: VN068696.D
Acq: 26 Sep 2021 5:19

Tgt Ion:119 Resp: 4754
Ion Ratio Lower Upper
119 100
134 26.1 0.0 53.6
91 15.1 0.0 49.2

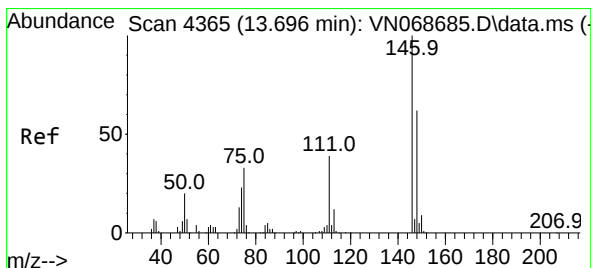
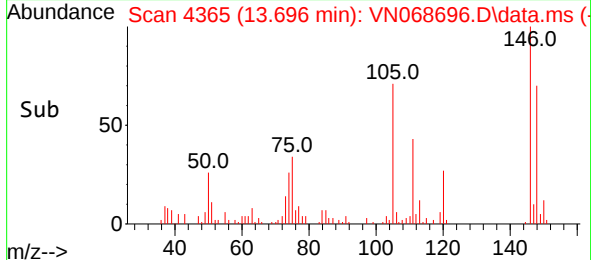
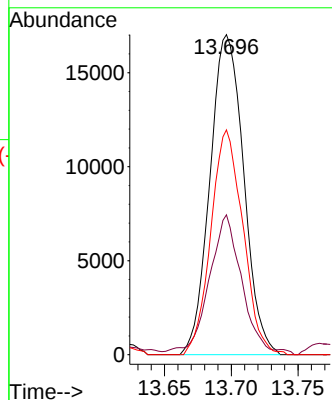
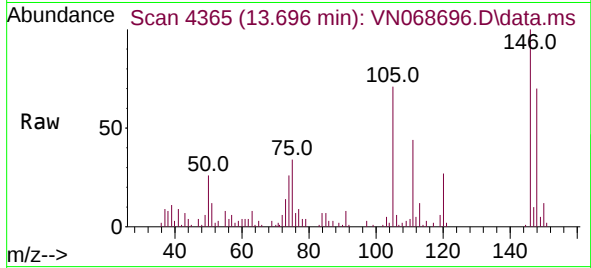




#83
1,3-Dichlorobenzene
Concen: 3.805 ug/l
RT: 13.696 min Scan# 4365
Delta R.T. 0.081 min
Lab File: VN068696.D
Acq: 26 Sep 2021 5:19

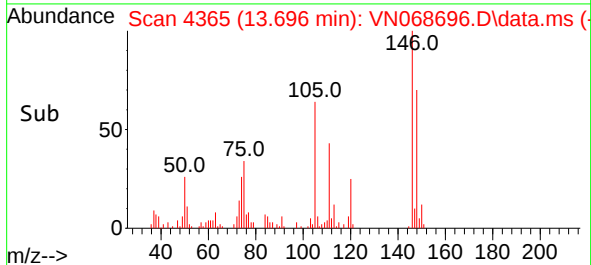
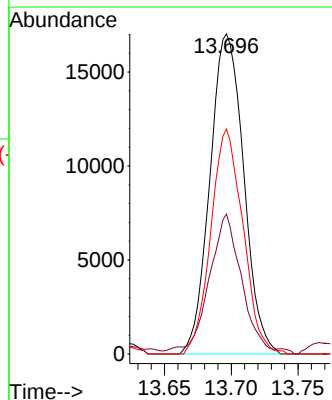
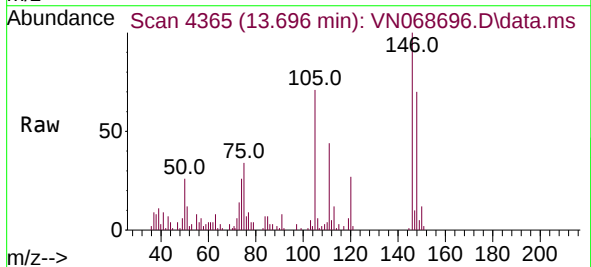
Instrument :
MSVOA_N
ClientSampleId :
210922099-02-VOA

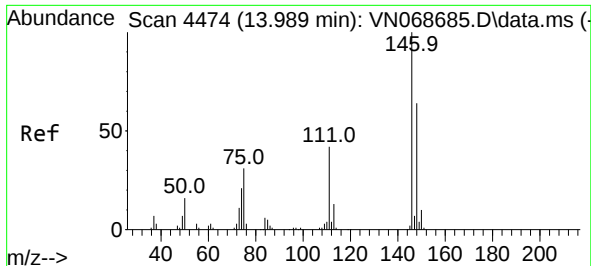
Tgt Ion:146 Resp: 29949
Ion Ratio Lower Upper
146 100
111 38.8 20.4 61.3
148 66.7 31.8 95.3



#84
1,4-Dichlorobenzene
Concen: 3.935 ug/l
RT: 13.696 min Scan# 4365
Delta R.T. 0.000 min
Lab File: VN068696.D
Acq: 26 Sep 2021 5:19

Tgt Ion:146 Resp: 29949
Ion Ratio Lower Upper
146 100
111 38.8 19.6 58.8
148 66.7 31.8 95.4





#87

1,2-Dichlorobenzene

Concen: 0.443 ug/l

RT: 13.991 min Scan# 4475

Delta R.T. 0.003 min

Lab File: VN068696.D

Acq: 26 Sep 2021 5:19

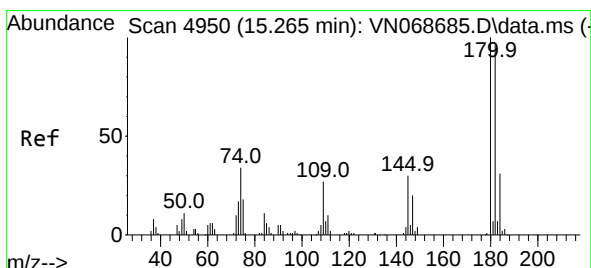
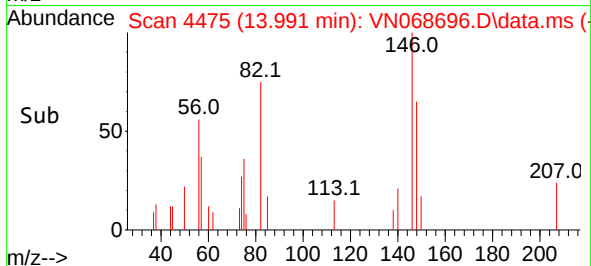
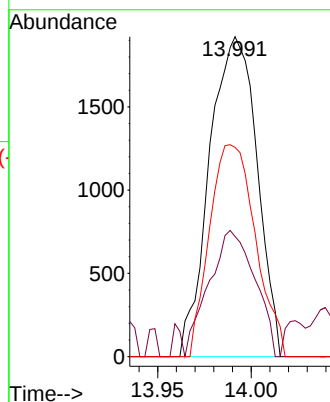
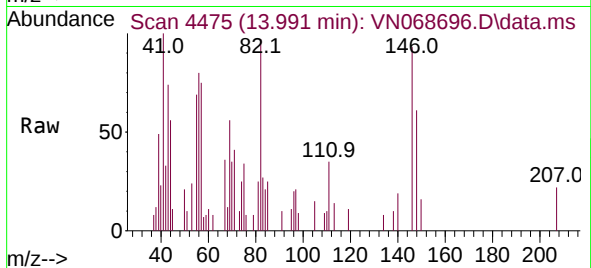
Tgt Ion:	146	Resp:	3395
Ion Ratio	Lower	Upper	
146	100		
111	38.2	21.5	64.5
148	64.1	31.9	95.9

Instrument :

MSVOA_N

ClientSampleId :

210922099-02-VOA



#89

1,2,4-Trichlorobenzene

Concen: 0.302 ug/l

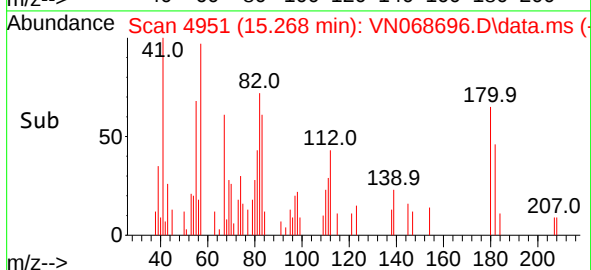
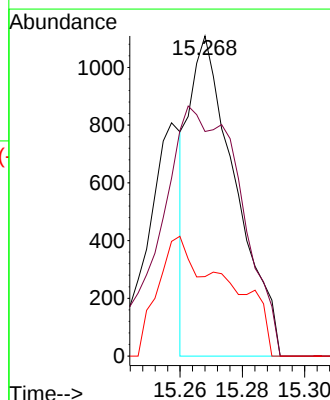
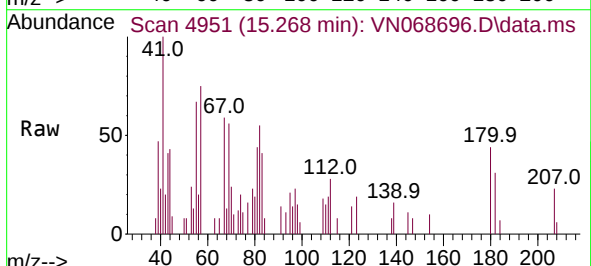
RT: 15.268 min Scan# 4951

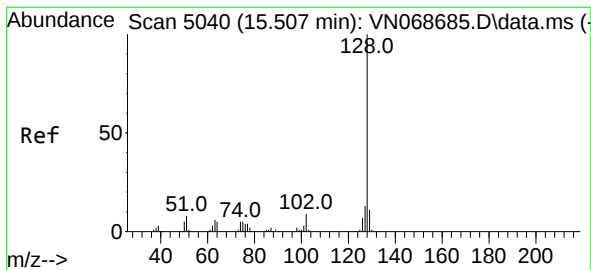
Delta R.T. 0.003 min

Lab File: VN068696.D

Acq: 26 Sep 2021 5:19

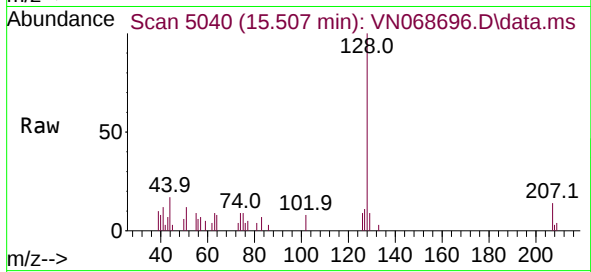
Tgt Ion:	180	Resp:	1146
Ion Ratio	Lower	Upper	
180	100		
182	0.0	75.6	113.4#
145	0.0	24.5	36.7#





#91
Naphthalene
Concen: 0.868 ug/l
RT: 15.507 min Scan# 5040
Delta R.T. 0.000 min
Lab File: VN068696.D
Acq: 26 Sep 2021 5:19

Instrument :
MSVOA_N
ClientSampleId :
210922099-02-VOA



Tgt Ion:128 Resp: 9016
Ion Ratio Lower Upper
128 100
127 7.5 10.9 16.3#
129 4.9 9.0 13.6#

