

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110424\
 Data File : VN084667.D
 Acq On : 04 Nov 2024 19:06
 Operator : JC\MD
 Sample : P4679-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 05 00:33:29 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:45:38 2024
 Response via : Initial Calibration

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

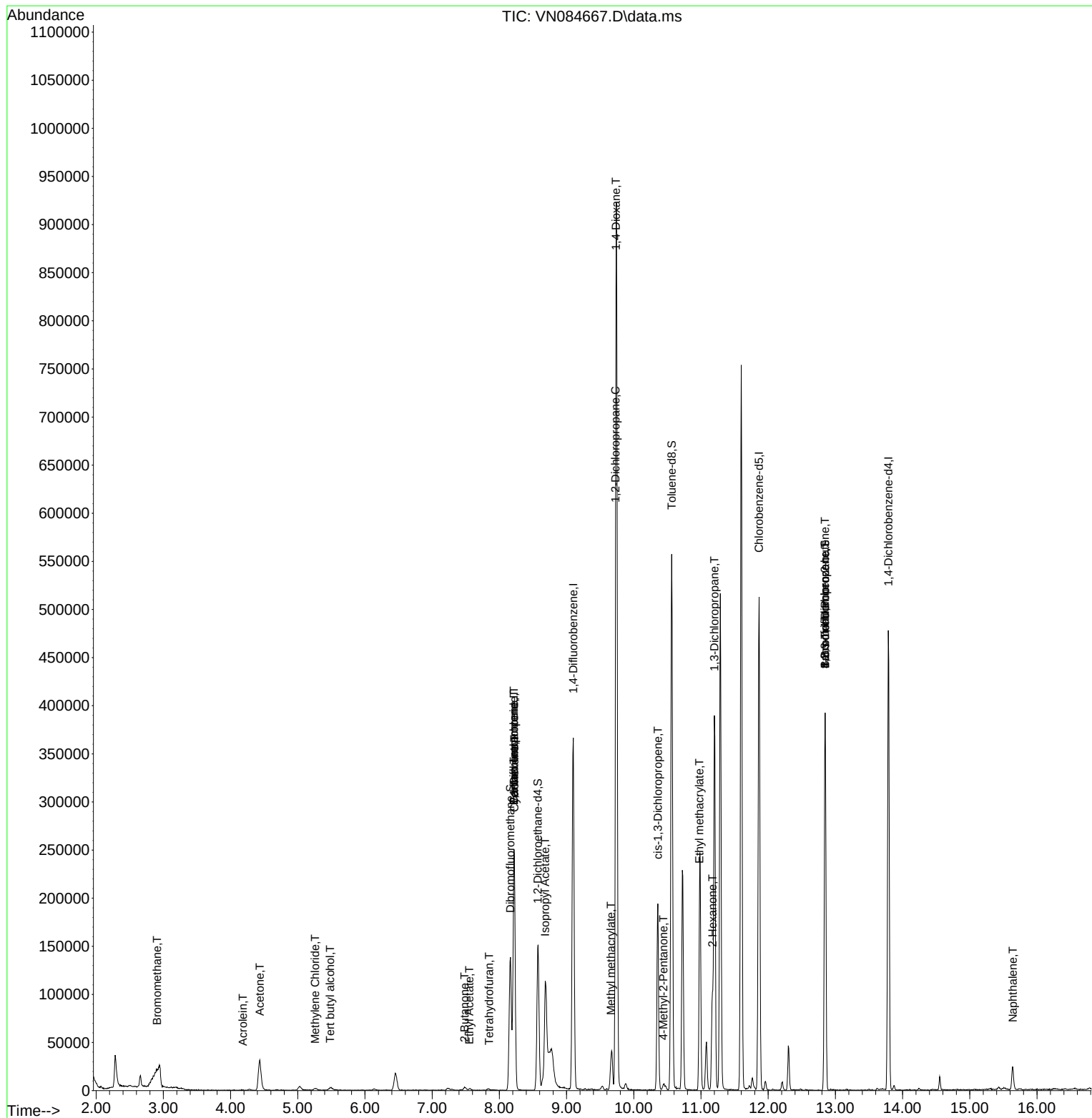
Internal Standards						
1) Pentafluorobenzene	8.218	168	180567	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	318837	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	289897	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	130368	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	125085	47.962	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	95.920%		
35) Dibromofluoromethane	8.165	113	101439	47.003	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.000%		
50) Toluene-d8	10.565	98	380650	47.881	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	95.760%		
62) 4-Bromofluorobenzene	12.847	95	143664	48.353	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	96.700%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	745	Below Cal	#	41
5) Bromomethane	2.906	94	271	0.229	ug/l #	4
6) Chloroethane	3.053	64	287	Below Cal	#	45
11) Tert butyl alcohol	5.483	59	3067	8.909	ug/l #	73
13) Acrolein	4.183	56	144	0.419	ug/l #	68
16) Acetone	4.436	43	59260	76.684	ug/l	95
18) Methyl Acetate	5.042	43	8195	Below Cal	#	88
20) Methylene Chloride	5.259	84	1076	0.469	ug/l #	75
25) 2-Butanone	7.483	43	5672	4.662	ug/l	98
29) Tetrahydrofuran	7.847	42	624	0.773	ug/l #	41
31) Cyclohexane	8.224	56	3717	1.032	ug/l #	12
36) 1,1-Dichloropropene	8.218	75	14614	4.883	ug/l #	52
37) Ethyl Acetate	7.553	43	2927	1.078	ug/l #	80
38) Carbon Tetrachloride	8.218	117	19435	5.809	ug/l #	15
43) Isopropyl Acetate	8.682	43	155202	30.561	ug/l #	82
45) 1,2-Dichloropropane	9.729	63	1172	0.520	ug/l #	44
48) Methyl methacrylate	9.659	41	2946	1.394	ug/l #	39
49) 1,4-Dioxane	9.735	88	75	2.003	ug/l #	1
51) 4-Methyl-2-Pentanone	10.441	43	4589	1.773	ug/l	99
54) cis-1,3-Dichloropropene	10.359	75	34300	9.335	ug/l #	60
56) Ethyl methacrylate	10.976	69	994	0.325	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	4223	1.162	ug/l #	42
59) 2-Hexanone	11.171	43	82590	43.830	ug/l #	24
71) Bromoform	12.847	173	530	0.312	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	74242	28.489	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	74242	67.587	ug/l #	11
88) 1,4-Dichlorobenzene	13.735	146	64	Below Cal	#	24
95) Naphthalene	15.641	128	23557	3.122	ug/l	99

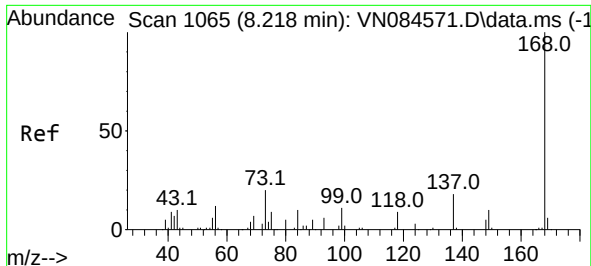
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

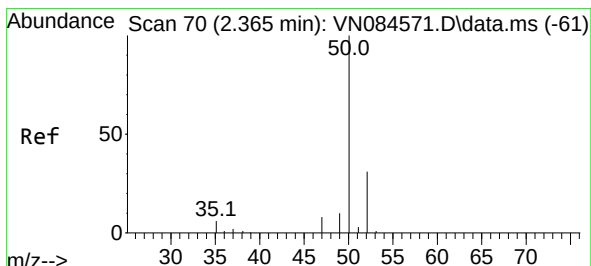
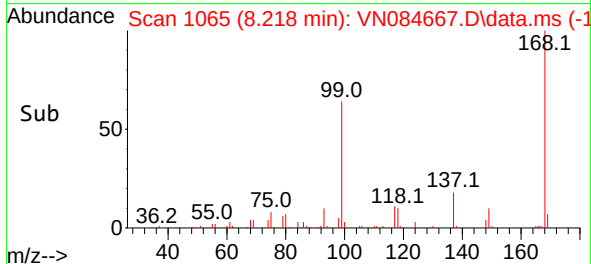
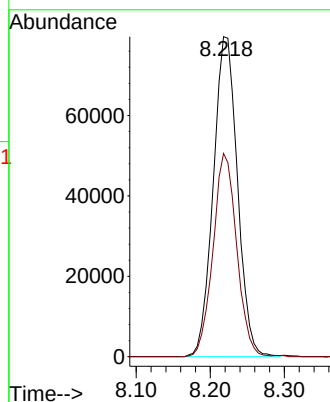
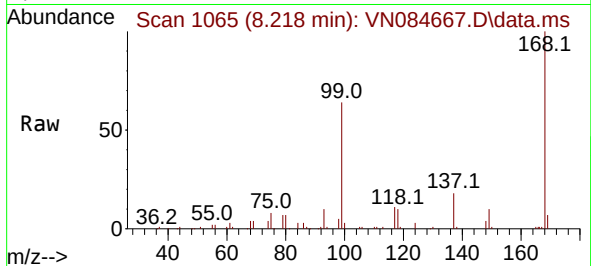




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN084667.D
Acq: 04 Nov 2024 19:06

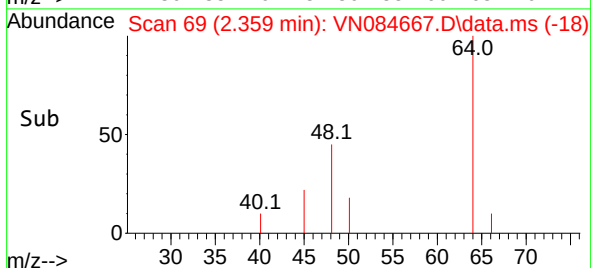
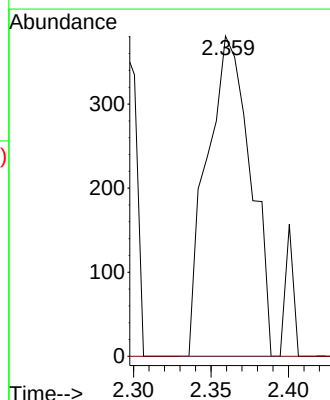
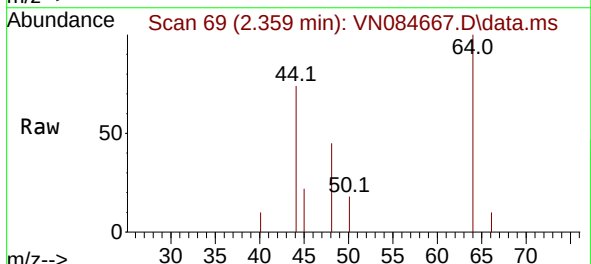
Instrument :
MSVOA_N
ClientSampleId :

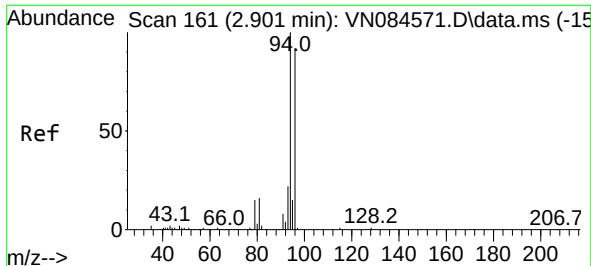
Tgt Ion:168 Resp: 180567
Ion Ratio Lower Upper
168 100
99 63.5 54.2 81.2



#3
Chloromethane
Concen: Below Cal
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN084667.D
Acq: 04 Nov 2024 19:06

Tgt Ion: 50 Resp: 745
Ion Ratio Lower Upper
50 100
52 0.0 26.8 40.2#

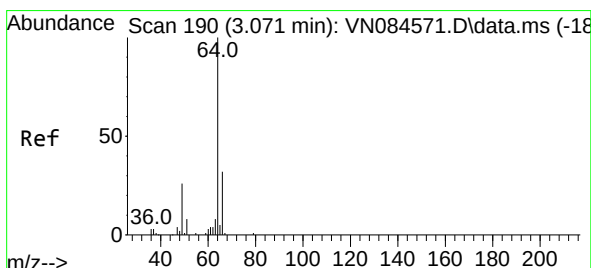
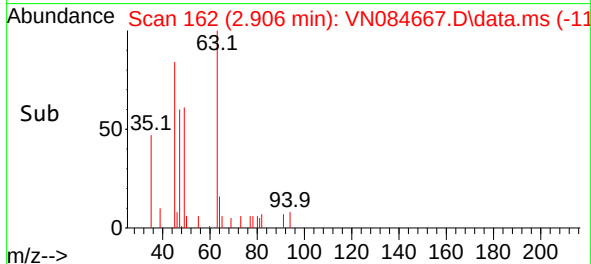
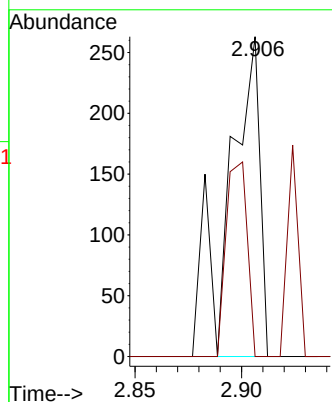
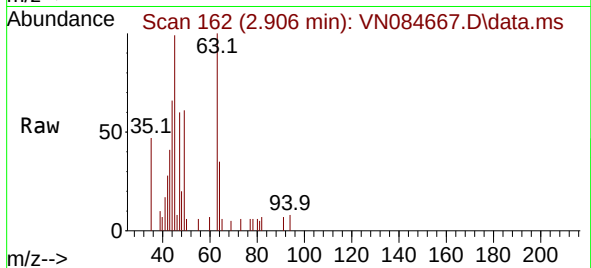




#5
Bromomethane
Concen: 0.229 ug/l
RT: 2.906 min Scan# 11
Delta R.T. -0.047 min
Lab File: VN084667.D
Acq: 04 Nov 2024 19:06

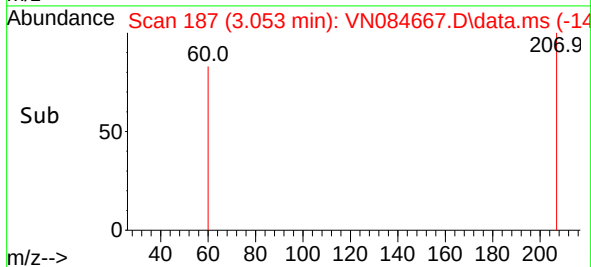
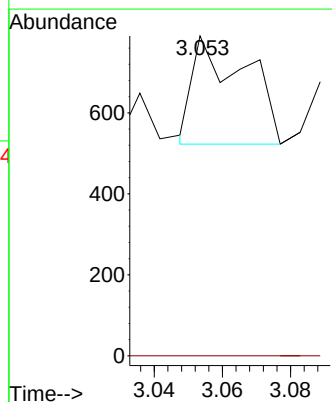
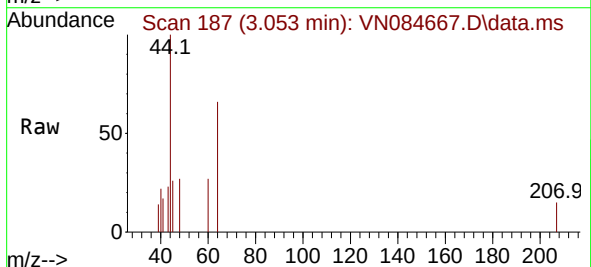
Instrument :
MSVOA_N
ClientSampleId :

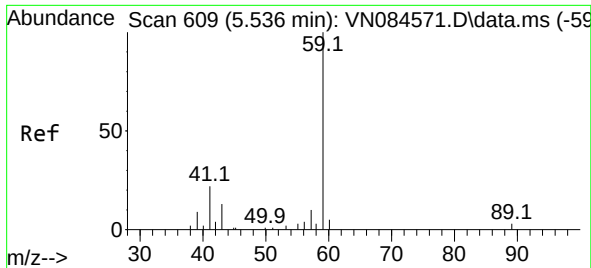
Tgt Ion: 94 Resp: 271
Ion Ratio Lower Upper
94 100
96 0.0 72.9 109.3#



#6
Chloroethane
Concen: Below Cal
RT: 3.053 min Scan# 187
Delta R.T. -0.065 min
Lab File: VN084667.D
Acq: 04 Nov 2024 19:06

Tgt Ion: 64 Resp: 287
Ion Ratio Lower Upper
64 100
66 0.0 23.5 35.3#

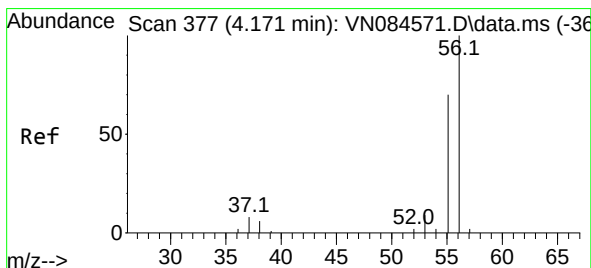
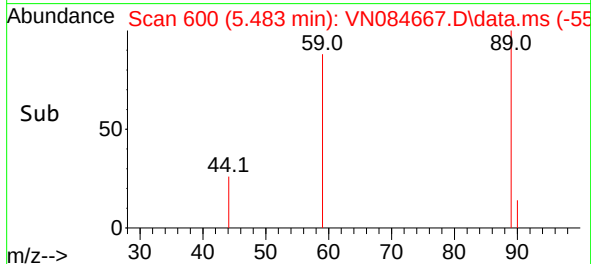
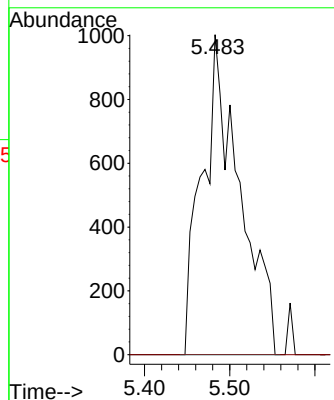
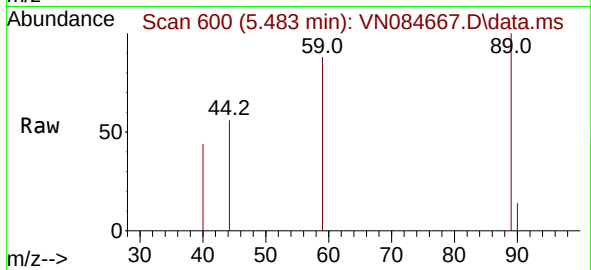




#11
Tert butyl alcohol
Concen: 8.909 ug/l
RT: 5.483 min Scan# 609
Delta R.T. -0.041 min
Lab File: VN084667.D
Acq: 04 Nov 2024 19:06

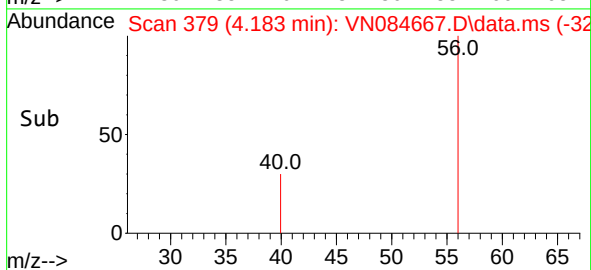
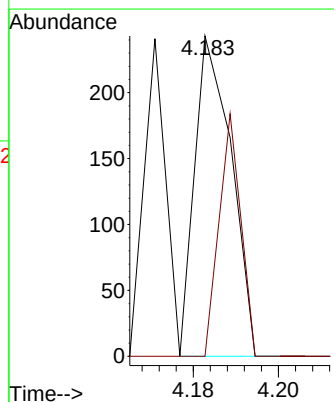
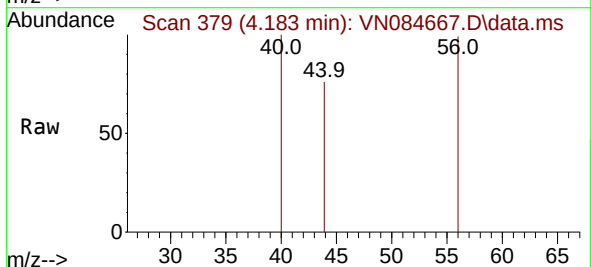
Instrument :
MSVOA_N
ClientSampleId :

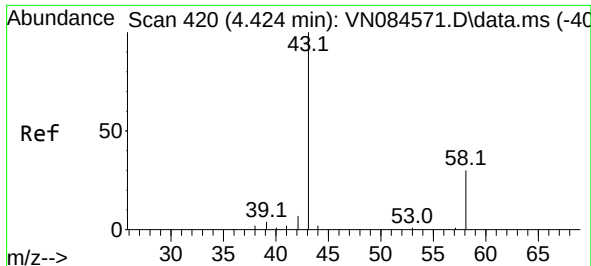
Tgt Ion: 59 Resp: 3067
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#13
Acrolein
Concen: 0.419 ug/l
RT: 4.183 min Scan# 379
Delta R.T. 0.006 min
Lab File: VN084667.D
Acq: 04 Nov 2024 19:06

Tgt Ion: 56 Resp: 144
Ion Ratio Lower Upper
56 100
55 45.1 57.2 85.8#





#16

Acetone

Concen: 76.684 ug/l

RT: 4.436 min Scan# 41

Delta R.T. 0.012 min

Lab File: VN084667.D

Acq: 04 Nov 2024 19:06

Instrument :

MSVOA_N

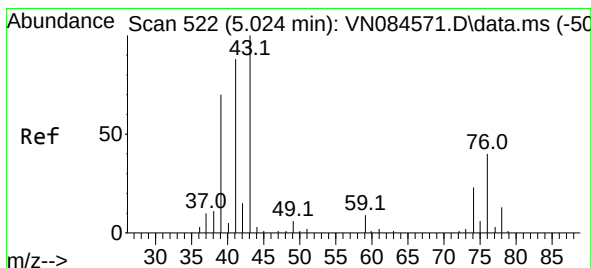
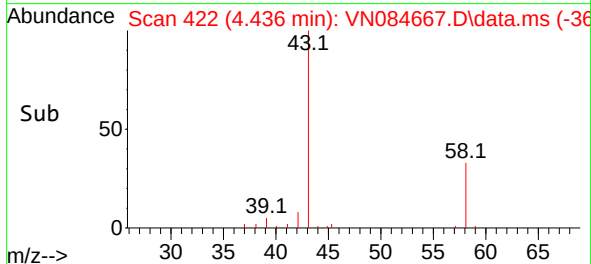
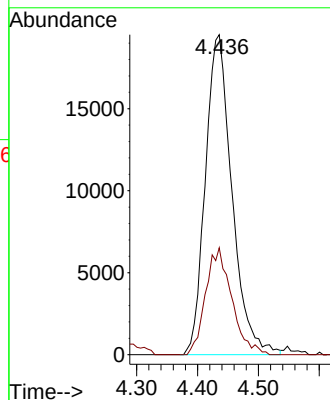
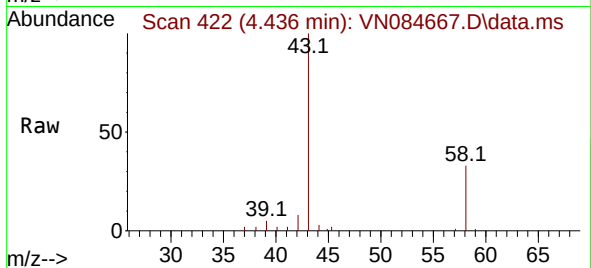
ClientSampleId :

Tgt Ion: 43 Resp: 59260

Ion Ratio Lower Upper

43 100

58 33.4 24.4 36.6



#18

Methyl Acetate

Concen: Below Cal

RT: 5.042 min Scan# 525

Delta R.T. 0.024 min

Lab File: VN084667.D

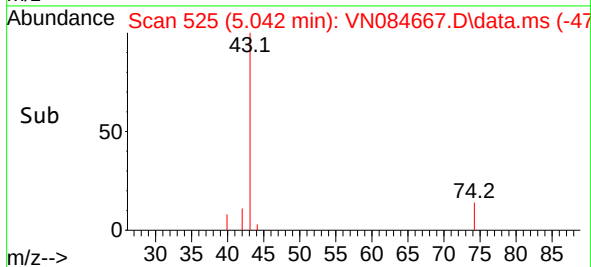
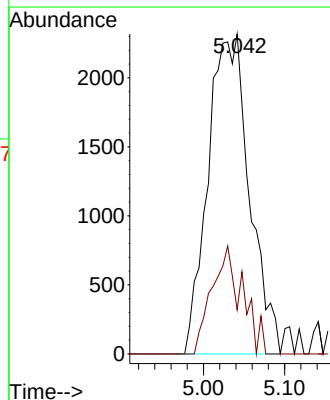
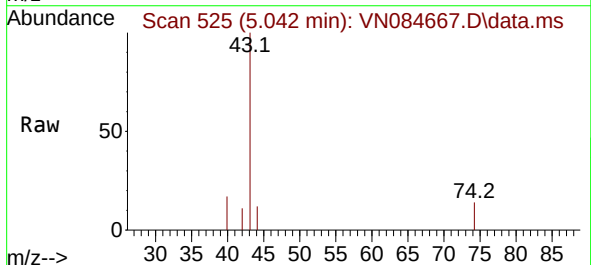
Acq: 04 Nov 2024 19:06

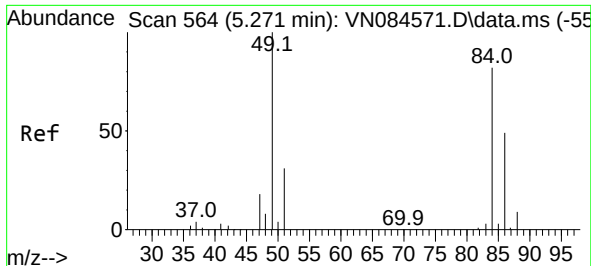
Tgt Ion: 43 Resp: 8195

Ion Ratio Lower Upper

43 100

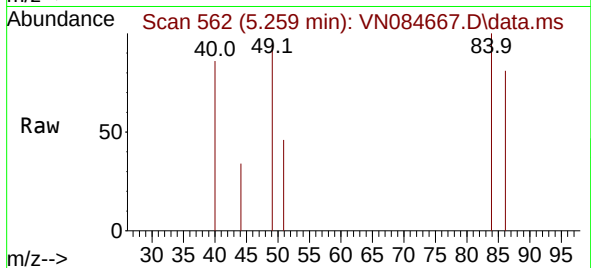
74 18.2 19.2 28.8#





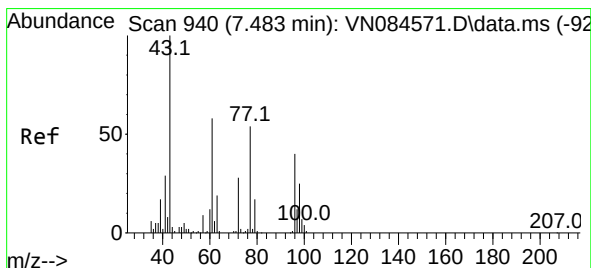
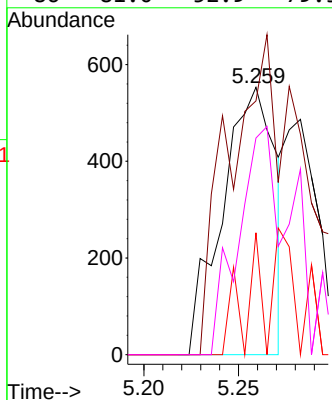
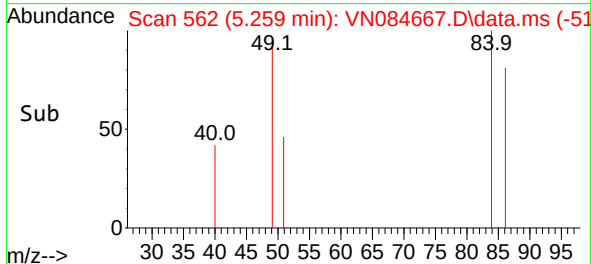
#20
Methylene Chloride
Concen: 0.469 ug/l
RT: 5.259 min Scan# 51
Delta R.T. -0.018 min
Lab File: VN084667.D
Acq: 04 Nov 2024 19:06

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 84 Resp: 1076

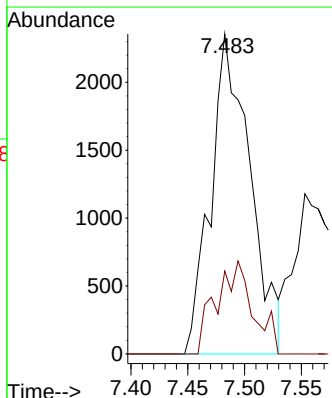
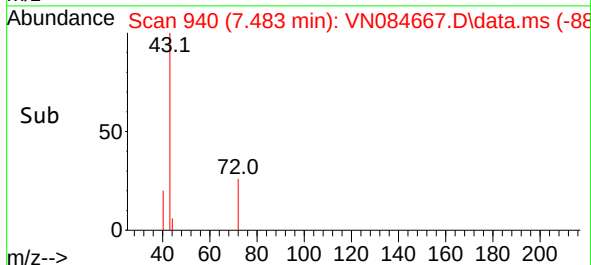
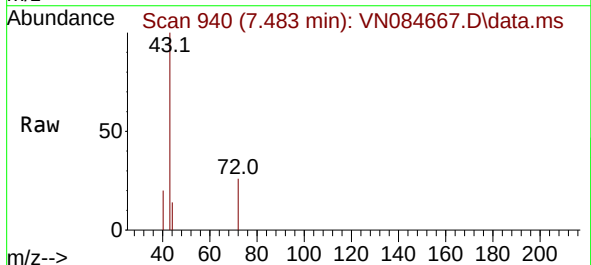
Ion	Ratio	Lower	Upper
84	100		
49	94.9	107.2	160.8#
51	45.6	31.8	47.8
86	81.0	52.9	79.3#

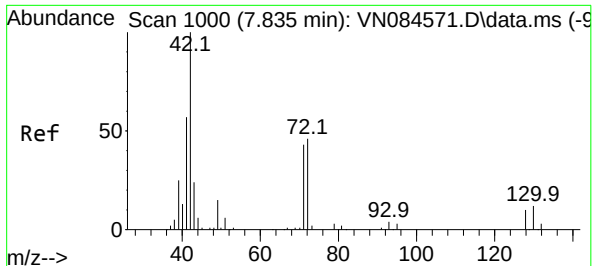


#25
2-Butanone
Concen: 4.662 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN084667.D
Acq: 04 Nov 2024 19:06

Tgt Ion: 43 Resp: 5672

Ion	Ratio	Lower	Upper
43	100		
72	25.9	21.4	32.2





#29

Tetrahydrofuran

Concen: 0.773 ug/l

RT: 7.847 min Scan# 1066

Delta R.T. 0.012 min

Lab File: VN084667.D

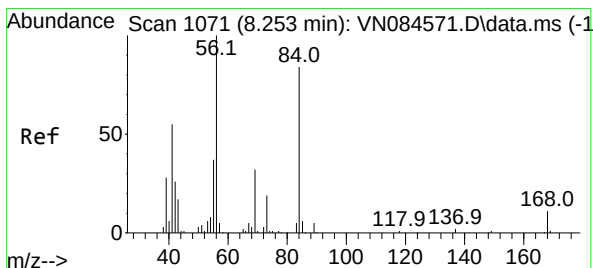
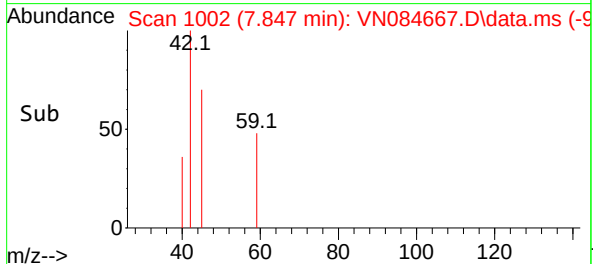
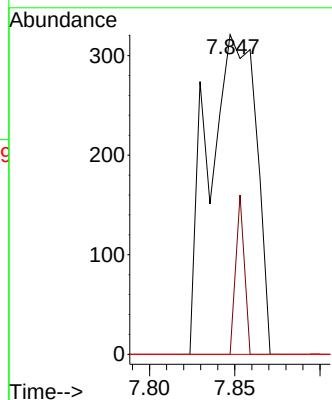
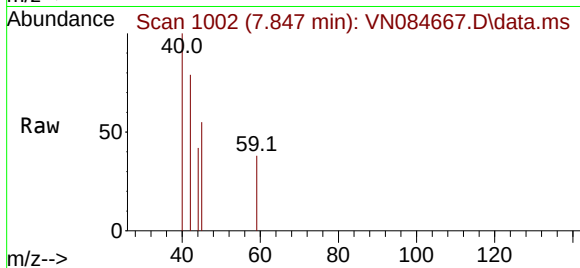
Acq: 04 Nov 2024 19:06

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	42	Resp:	624
Ion	Ratio	Lower	Upper
42	100		
72	9.0	34.6	51.8#
71	0.0	32.2	48.4#



#31

Cyclohexane

Concen: 1.032 ug/l

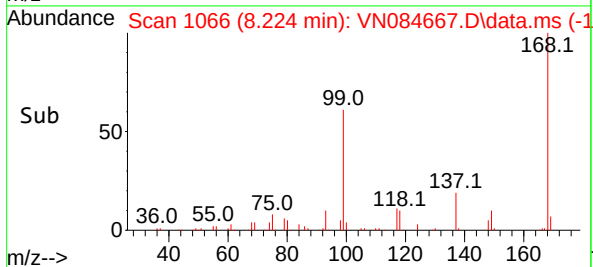
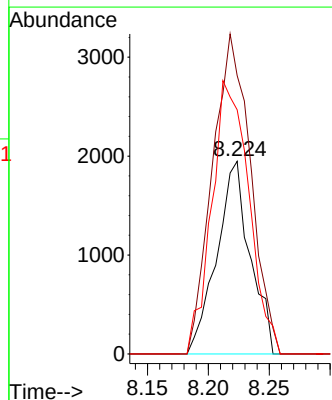
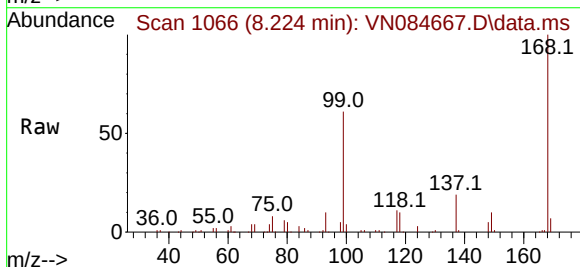
RT: 8.224 min Scan# 1066

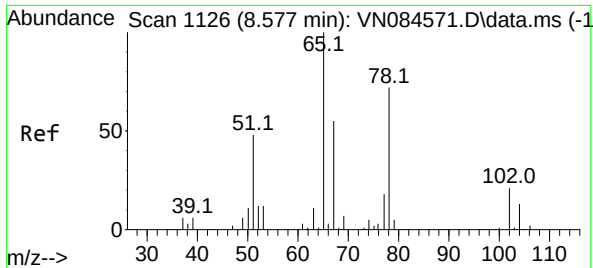
Delta R.T. -0.029 min

Lab File: VN084667.D

Acq: 04 Nov 2024 19:06

Tgt Ion:	56	Resp:	3717
Ion	Ratio	Lower	Upper
56	100		
69	144.5	23.8	35.6#
84	126.7	68.8	103.2#

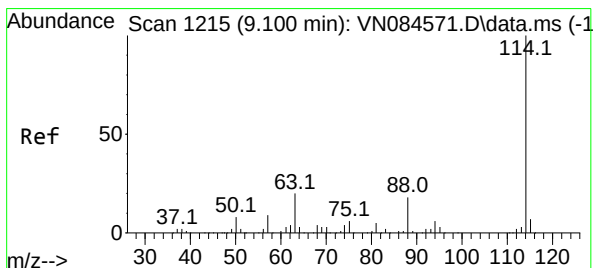
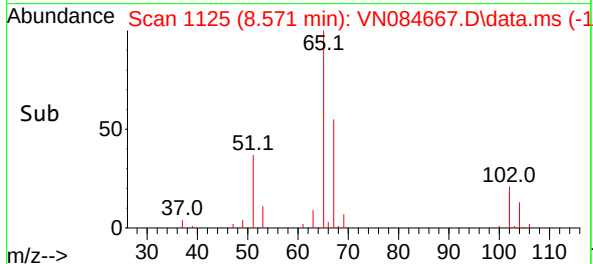
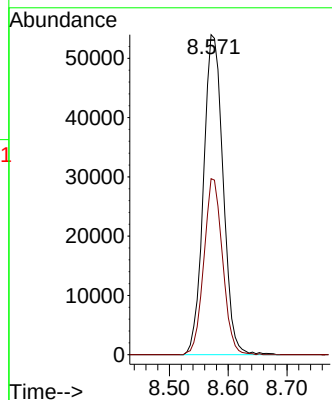
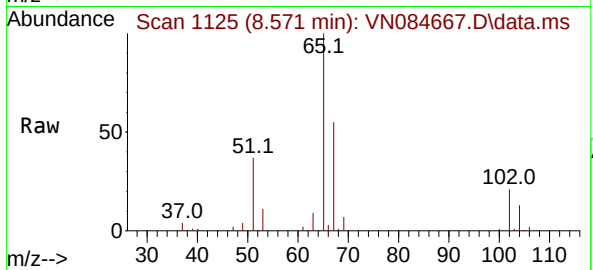




#33
 1,2-Dichloroethane-d4
 Concen: 47.962 ug/l
 RT: 8.571 min Scan# 1126
 Delta R.T. -0.006 min
 Lab File: VN084667.D
 Acq: 04 Nov 2024 19:06

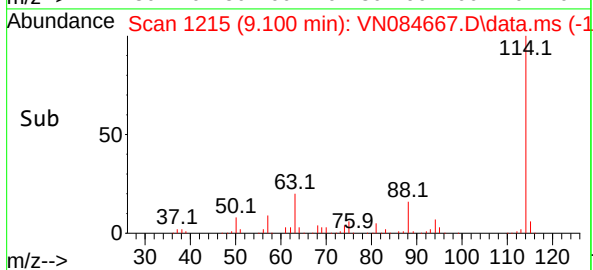
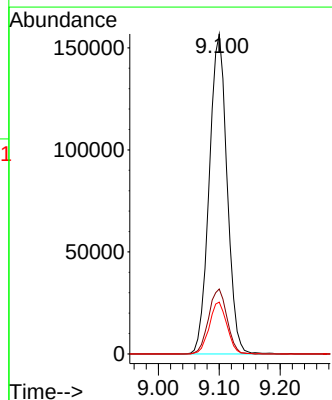
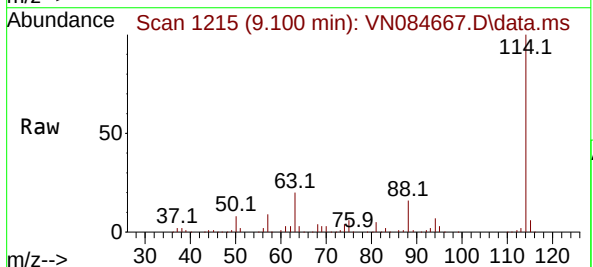
Instrument :
 MSVOA_N
 ClientSampleId :

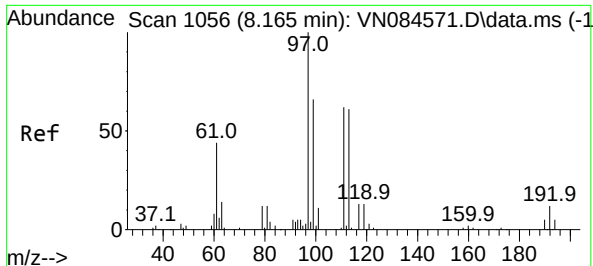
Tgt Ion: 65 Resp: 125085
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 102.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.100 min Scan# 1215
 Delta R.T. 0.000 min
 Lab File: VN084667.D
 Acq: 04 Nov 2024 19:06

Tgt Ion: 114 Resp: 318837
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 43.8
 88 16.2 0.0 31.6





#35

Dibromofluoromethane

Concen: 47.003 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN084667.D

Acq: 04 Nov 2024 19:06

Instrument :

MSVOA_N

ClientSampleId :

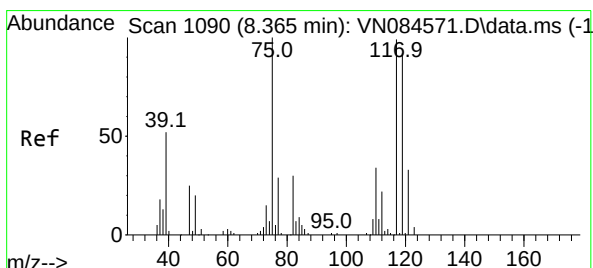
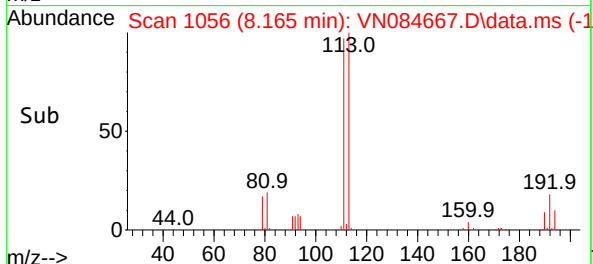
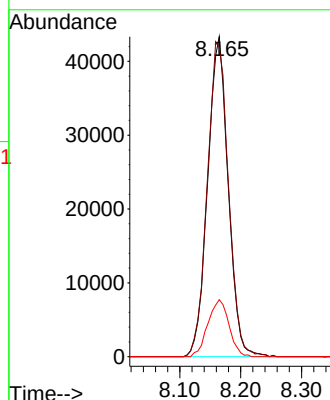
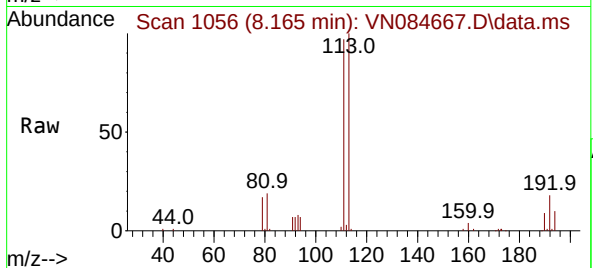
Tgt Ion:113 Resp: 101439

Ion Ratio Lower Upper

113 100

111 102.2 83.3 124.9

192 18.3 13.5 20.3



#36

1,1-Dichloropropene

Concen: 4.883 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.153 min

Lab File: VN084667.D

Acq: 04 Nov 2024 19:06

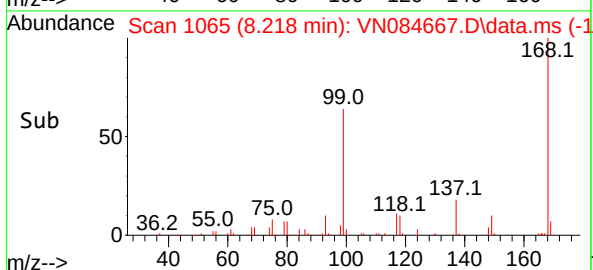
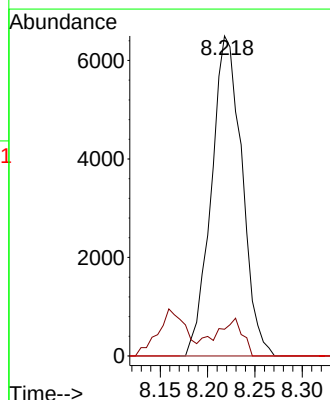
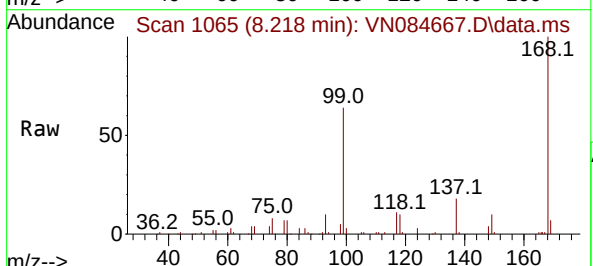
Tgt Ion: 75 Resp: 14614

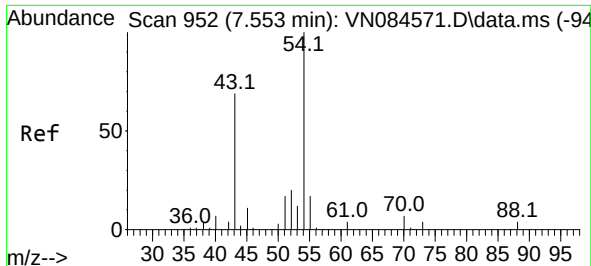
Ion Ratio Lower Upper

75 100

110 10.6 16.9 50.7#

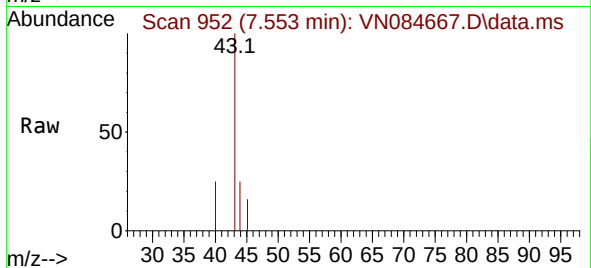
77 0.0 24.7 37.1#



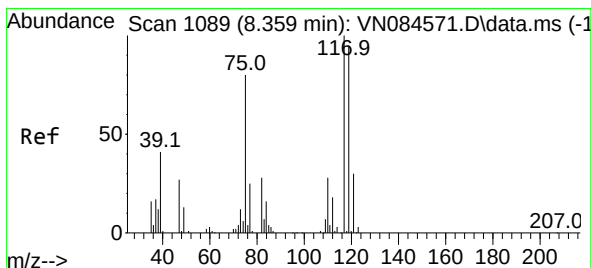
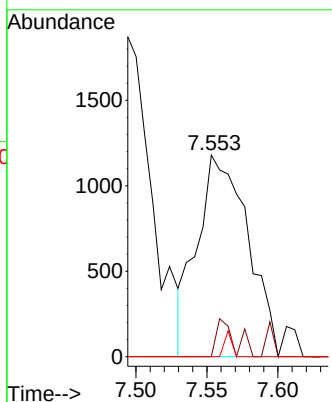


#37
Ethyl Acetate
Concen: 1.078 ug/l
RT: 7.553 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN084667.D
Acq: 04 Nov 2024 19:06

Instrument :
MSVOA_N
ClientSampleId :

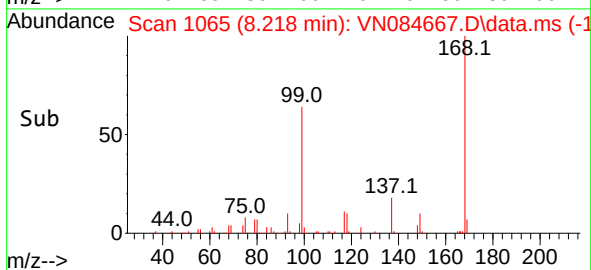
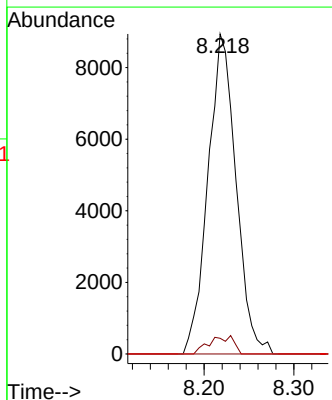
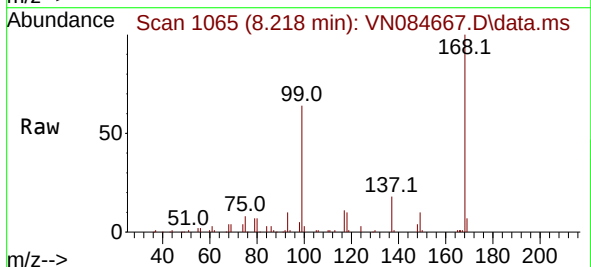


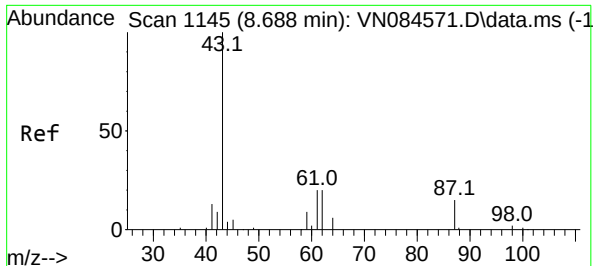
Tgt Ion:	43	Resp:	2927
Ion	Ratio	Lower	Upper
43	100		
61	6.8	10.7	16.1#
70	1.8	8.8	13.2#



#38
Carbon Tetrachloride
Concen: 5.809 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.141 min
Lab File: VN084667.D
Acq: 04 Nov 2024 19:06

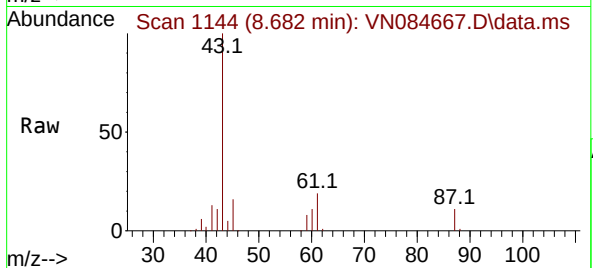
Tgt Ion:	117	Resp:	19435
Ion	Ratio	Lower	Upper
117	100		
119	4.9	78.7	118.1#
121	0.0	24.4	36.6#



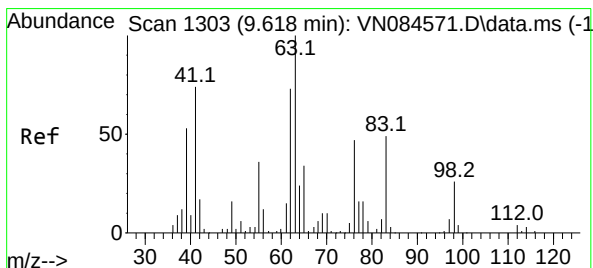
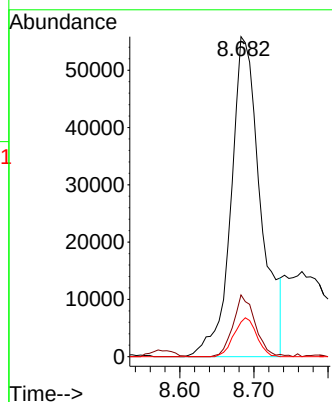
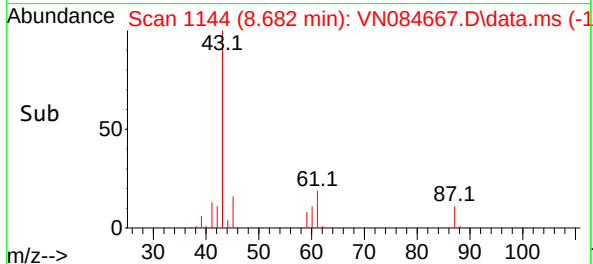


#43
Isopropyl Acetate
Concen: 30.561 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.006 min
Lab File: VN084667.D
Acq: 04 Nov 2024 19:06

Instrument :
MSVOA_N
ClientSampleId :

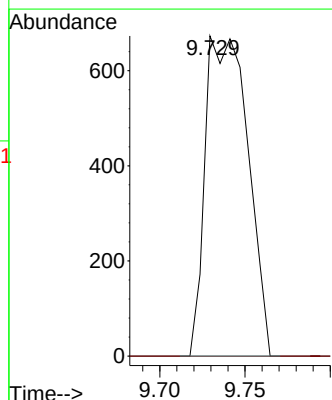
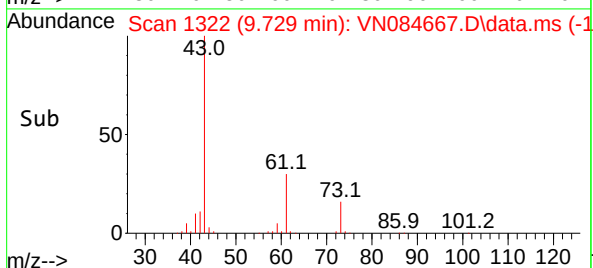
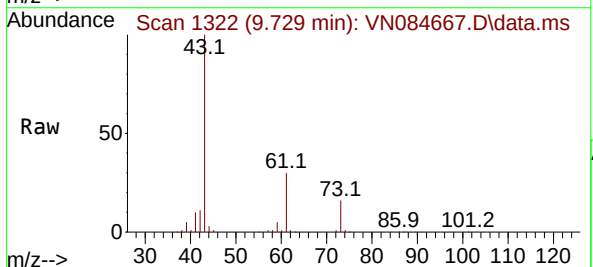


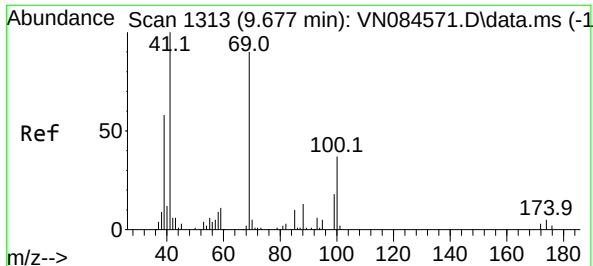
Tgt Ion: 43 Resp: 155202
Ion Ratio Lower Upper
43 100
61 14.4 20.4 30.6#
87 9.2 10.3 15.5#



#45
1,2-Dichloropropane
Concen: 0.520 ug/l
RT: 9.729 min Scan# 1322
Delta R.T. 0.111 min
Lab File: VN084667.D
Acq: 04 Nov 2024 19:06

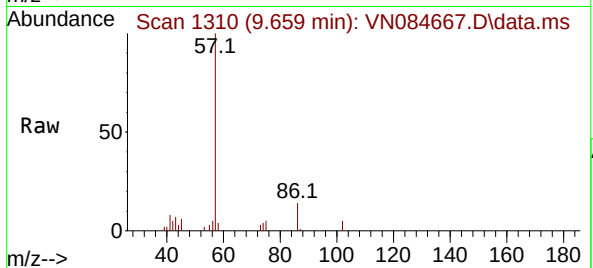
Tgt Ion: 63 Resp: 1172
Ion Ratio Lower Upper
63 100
65 0.0 24.6 37.0#



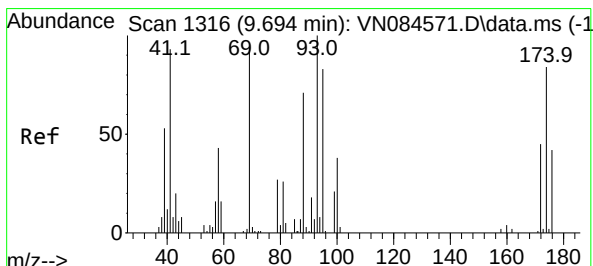
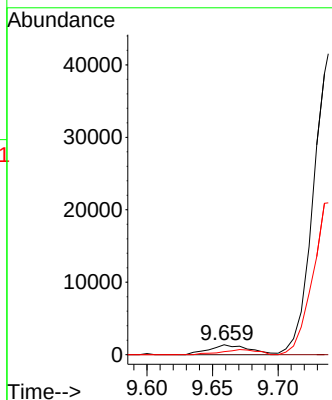
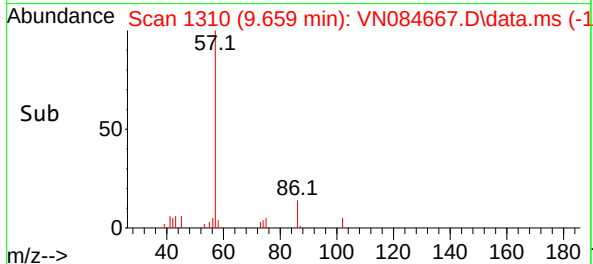


#48
Methyl methacrylate
Concen: 1.394 ug/l
RT: 9.659 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN084667.D
Acq: 04 Nov 2024 19:06

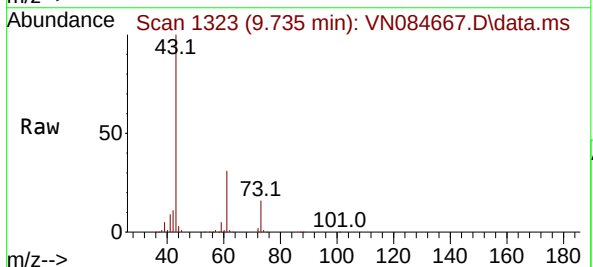
Instrument :
MSVOA_N
ClientSampleId :



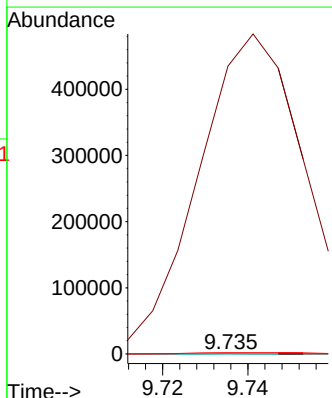
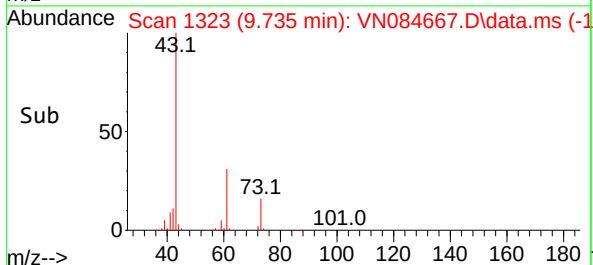
Tgt Ion: 41 Resp: 2946
Ion Ratio Lower Upper
41 100
69 0.0 67.1 100.7#
39 45.6 45.8 68.6#

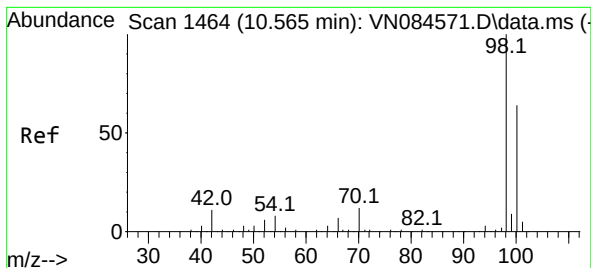


#49
1,4-Dioxane
Concen: 2.003 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.041 min
Lab File: VN084667.D
Acq: 04 Nov 2024 19:06



Tgt Ion: 88 Resp: 75
Ion Ratio Lower Upper
88 100
43 1158698.7 25.3 37.9#
58 5424.0 56.4 84.6#

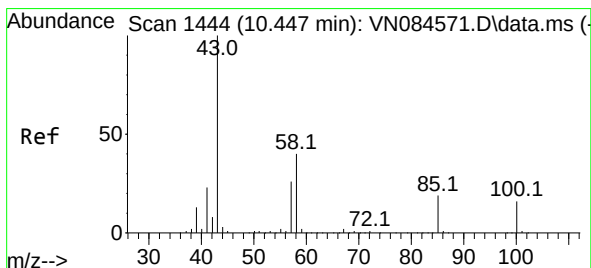
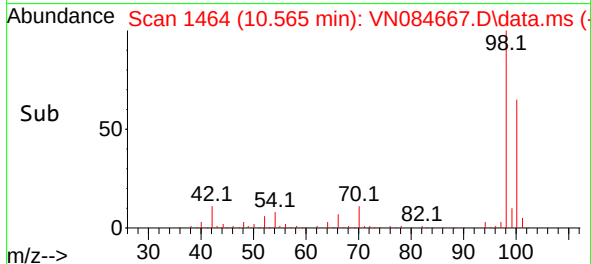
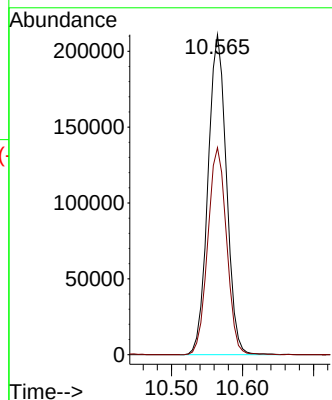
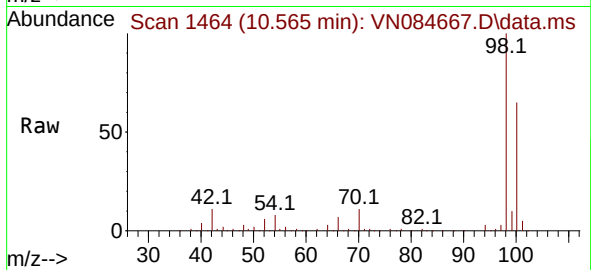




#50
Toluene-d8
Concen: 47.881 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN084667.D
Acq: 04 Nov 2024 19:06

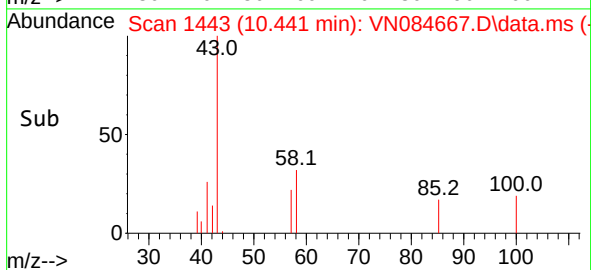
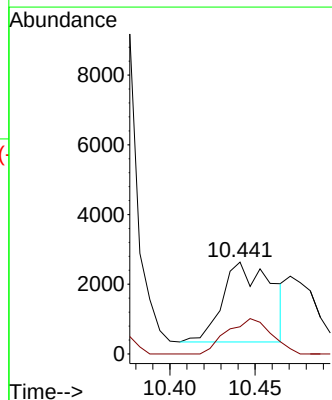
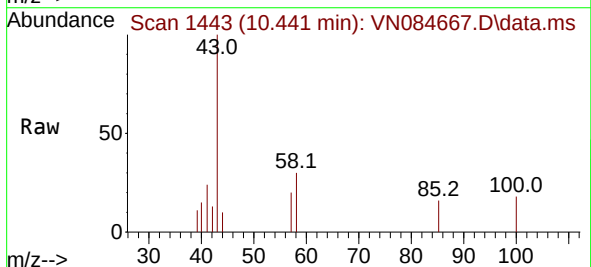
Instrument :
MSVOA_N
ClientSampleId :

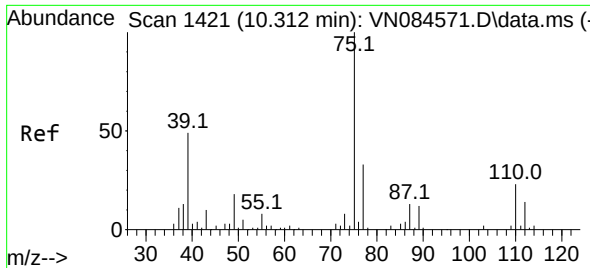
Tgt Ion: 98 Resp: 380650
Ion Ratio Lower Upper
98 100
100 65.8 52.7 79.1



#51
4-Methyl-2-Pentanone
Concen: 1.773 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN084667.D
Acq: 04 Nov 2024 19:06

Tgt Ion: 43 Resp: 4589
Ion Ratio Lower Upper
43 100
58 40.0 31.6 47.4

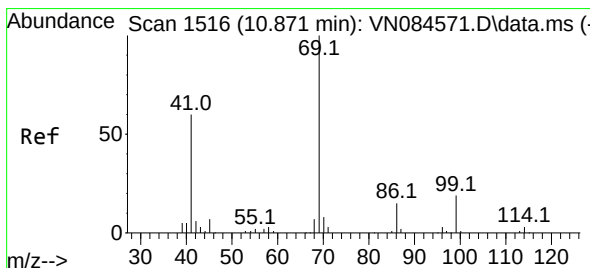
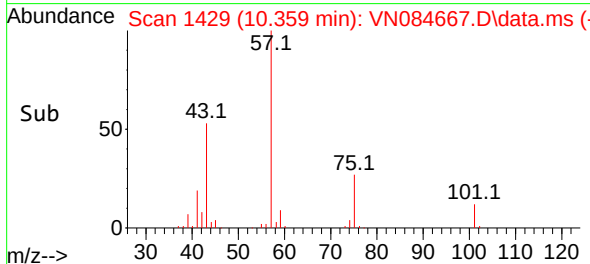
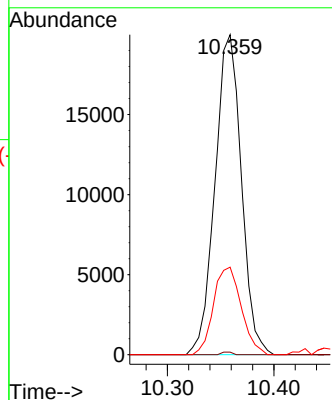
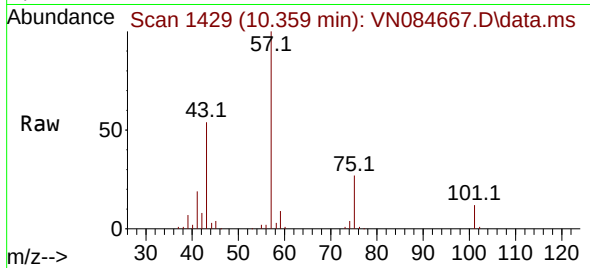




#54
cis-1,3-Dichloropropene
Concen: 9.335 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN084667.D
Acq: 04 Nov 2024 19:06

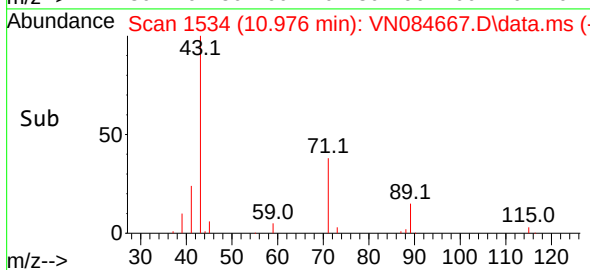
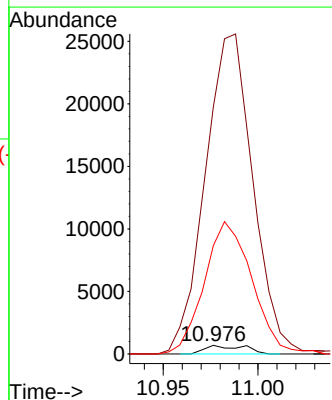
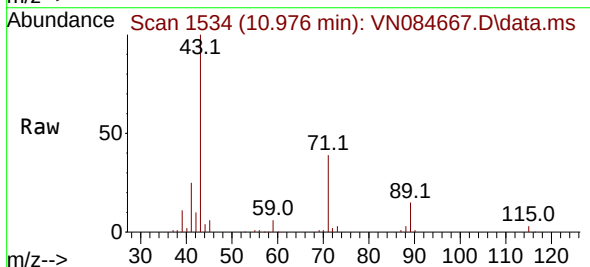
Instrument :
MSVOA_N
ClientSampleId :

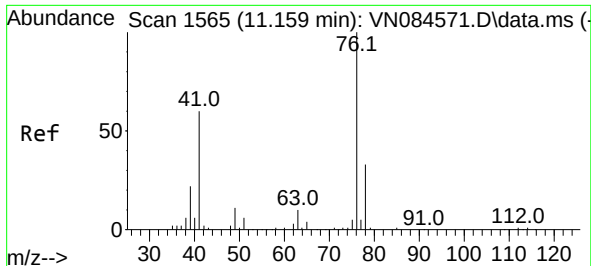
Tgt Ion: 75 Resp: 34300
Ion Ratio Lower Upper
75 100
77 0.8 24.2 36.2#
39 27.4 38.7 58.1#



#56
Ethyl methacrylate
Concen: 0.325 ug/l
RT: 10.976 min Scan# 1534
Delta R.T. 0.106 min
Lab File: VN084667.D
Acq: 04 Nov 2024 19:06

Tgt Ion: 69 Resp: 994
Ion Ratio Lower Upper
69 100
41 4525.2 53.3 79.9#
39 1868.1 28.8 43.2#





#57

1,3-Dichloropropane

Concen: 1.162 ug/l

RT: 11.200 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN084667.D

Acq: 04 Nov 2024 19:06

Instrument :

MSVOA_N

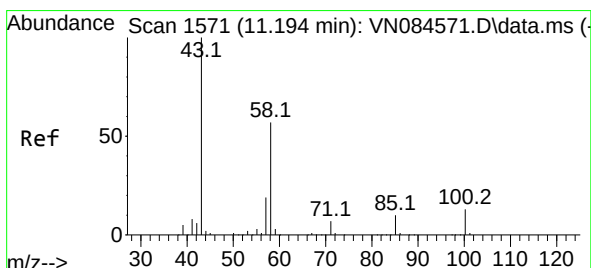
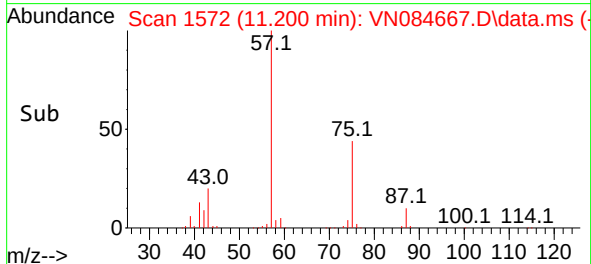
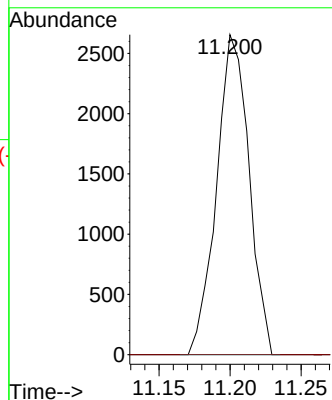
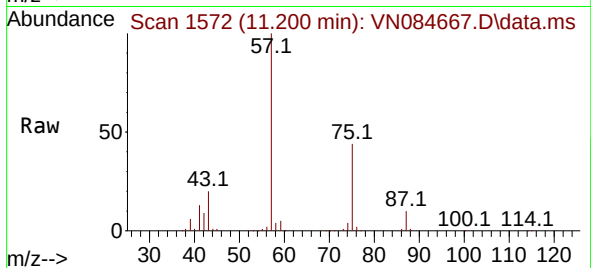
ClientSampleId :

Tgt Ion: 76 Resp: 4223

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 43.830 ug/l

RT: 11.171 min Scan# 1567

Delta R.T. -0.024 min

Lab File: VN084667.D

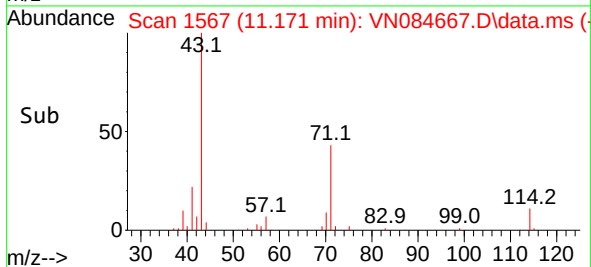
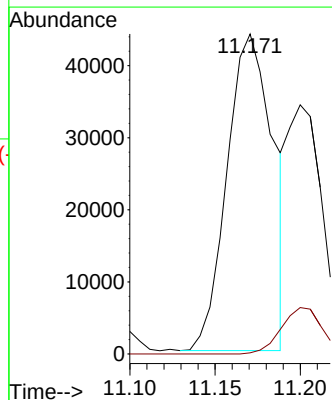
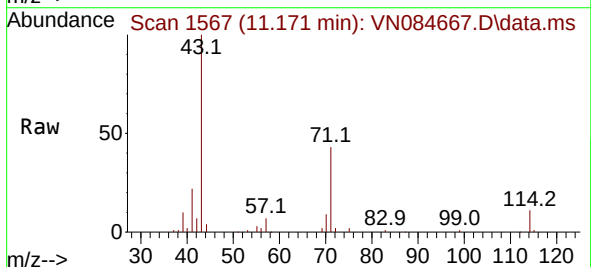
Acq: 04 Nov 2024 19:06

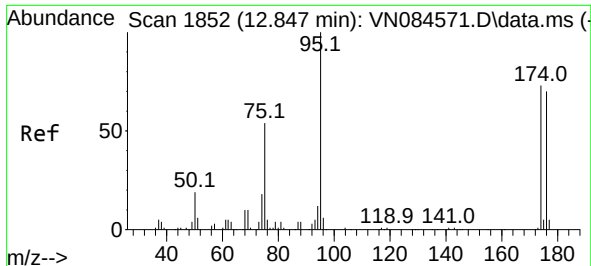
Tgt Ion: 43 Resp: 82590

Ion Ratio Lower Upper

43 100

58 0.0 27.3 81.8#

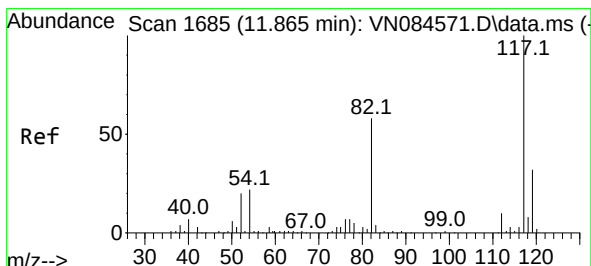
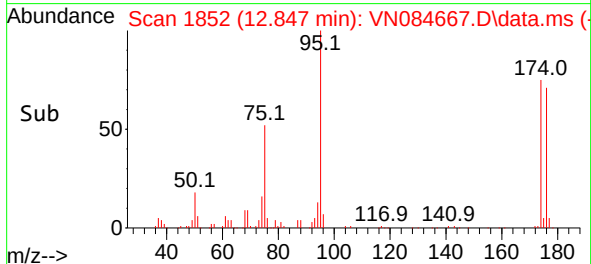
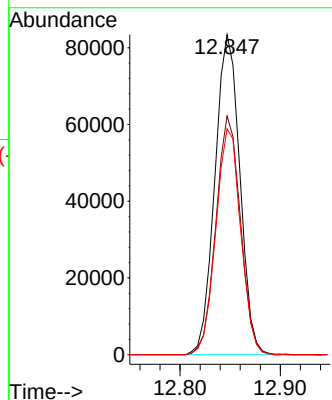
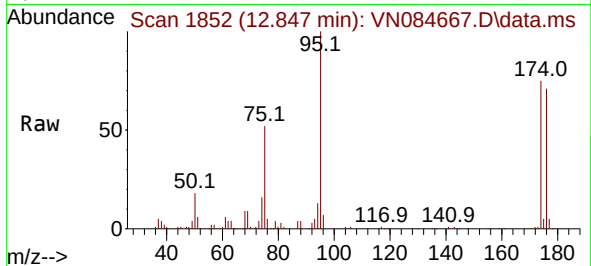




#62
4-Bromofluorobenzene
Concen: 48.353 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084667.D
Acq: 04 Nov 2024 19:06

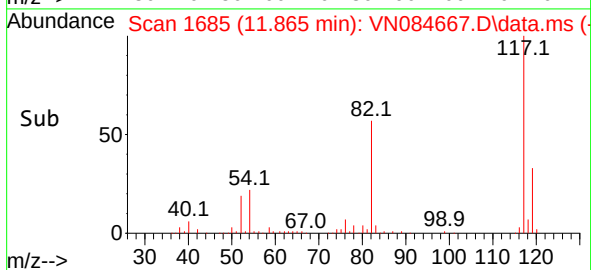
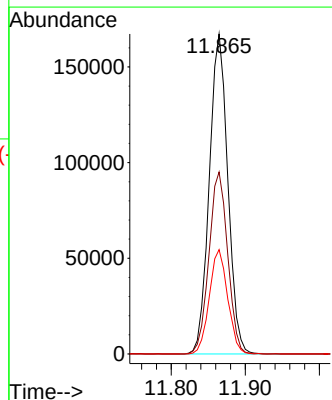
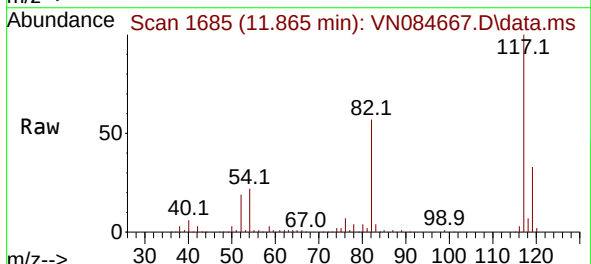
Instrument :
MSVOA_N
ClientSampleId :

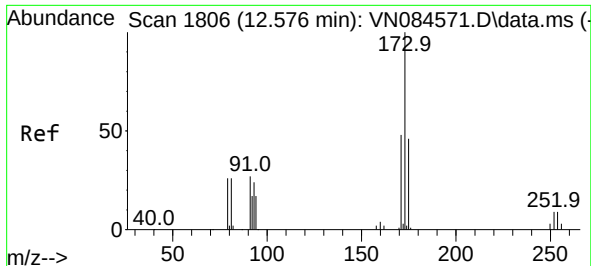
Tgt Ion: 95 Resp: 143664
Ion Ratio Lower Upper
95 100
174 73.7 0.0 145.2
176 70.4 0.0 140.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN084667.D
Acq: 04 Nov 2024 19:06

Tgt Ion: 117 Resp: 289897
Ion Ratio Lower Upper
117 100
82 56.8 47.2 70.8
119 32.6 25.4 38.0

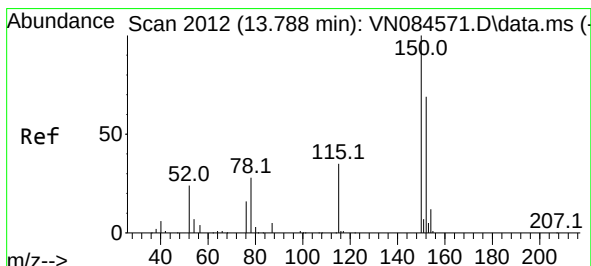
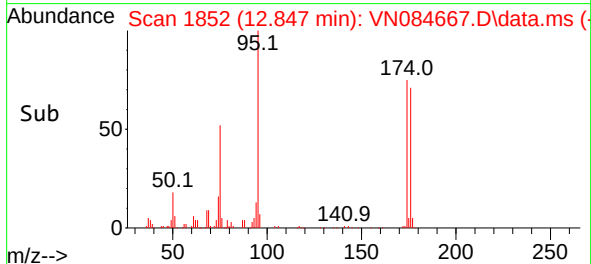
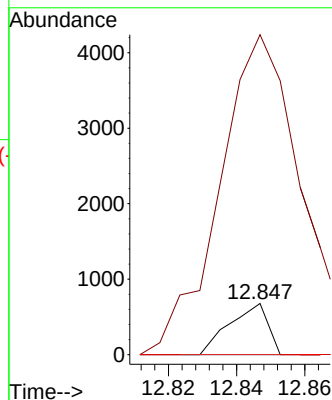
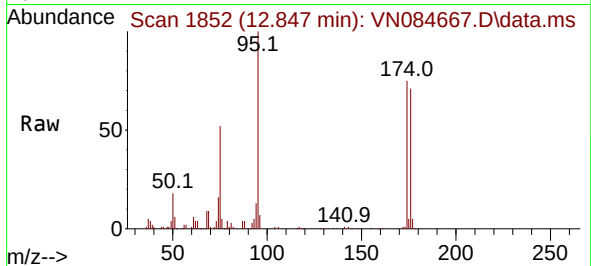




#71
Bromoform
Concen: 0.312 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.271 min
Lab File: VN084667.D
Acq: 04 Nov 2024 19:06

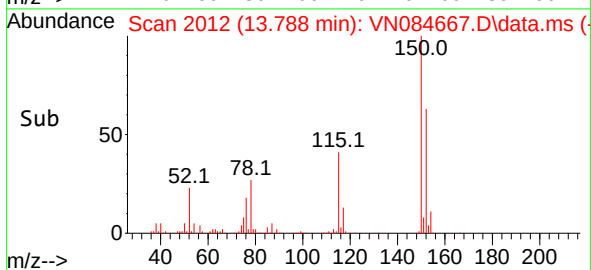
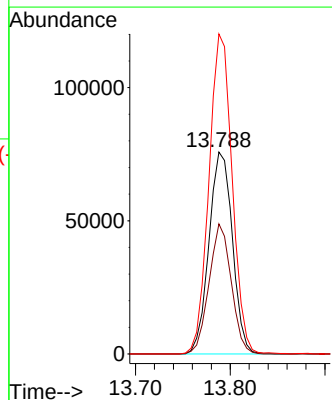
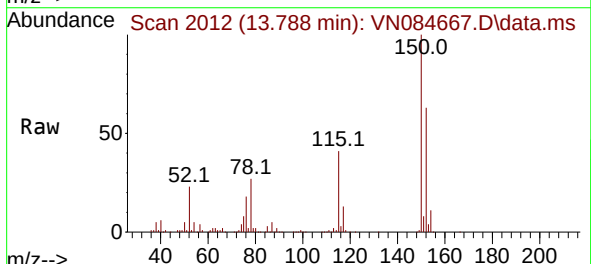
Instrument :
MSVOA_N
ClientSampleId :

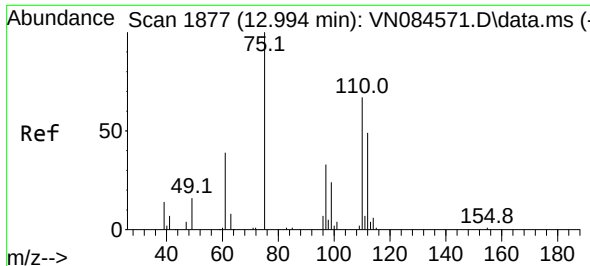
Tgt Ion:173 Resp: 530
Ion Ratio Lower Upper
173 100
175 1036.6 23.5 70.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN084667.D
Acq: 04 Nov 2024 19:06

Tgt Ion:152 Resp: 130368
Ion Ratio Lower Upper
152 100
115 60.9 31.3 93.9
150 156.7 0.0 349.8

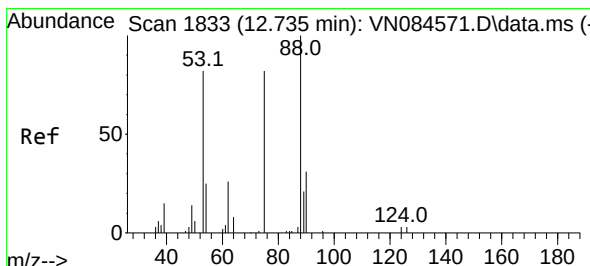
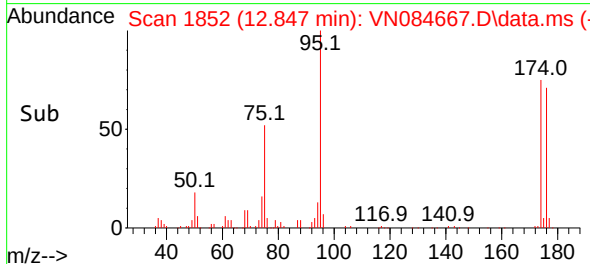
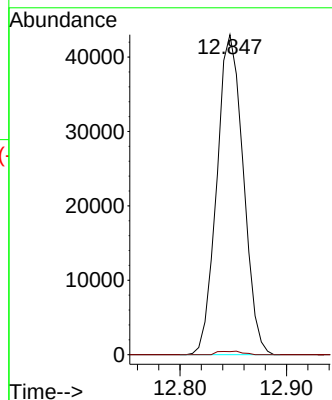
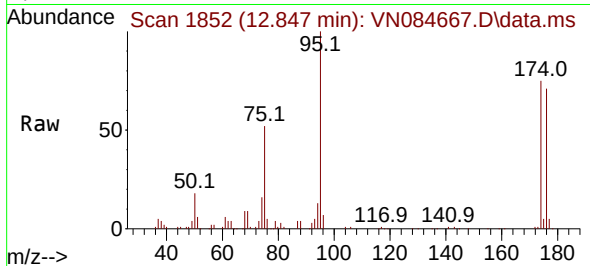




#76
1,2,3-Trichloropropane
Concen: 28.489 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN084667.D
Acq: 04 Nov 2024 19:06

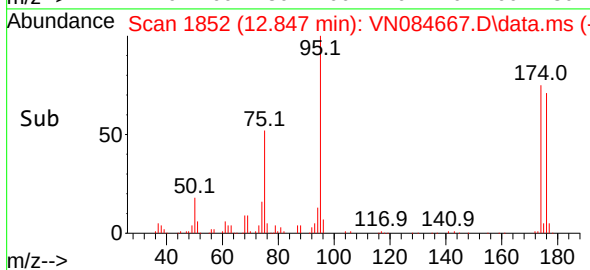
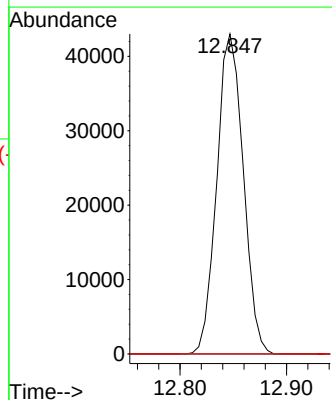
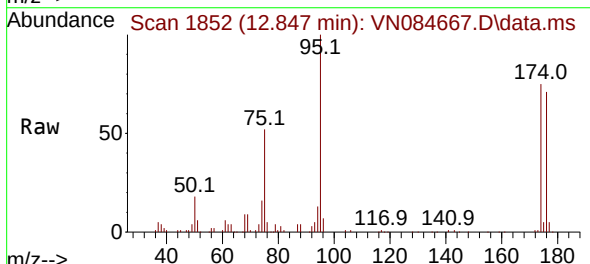
Instrument :
MSVOA_N
ClientSampleId :

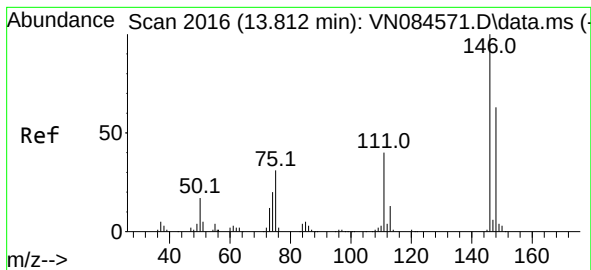
Tgt Ion: 75 Resp: 74242
Ion Ratio Lower Upper
75 100
77 1.0 96.9 290.7#



#81
trans-1,4-Dichloro-2-butene
Concen: 67.587 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN084667.D
Acq: 04 Nov 2024 19:06

Tgt Ion: 75 Resp: 74242
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 35.5 53.3#





#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 13.735 min Scan# 2016

Delta R.T. -0.077 min

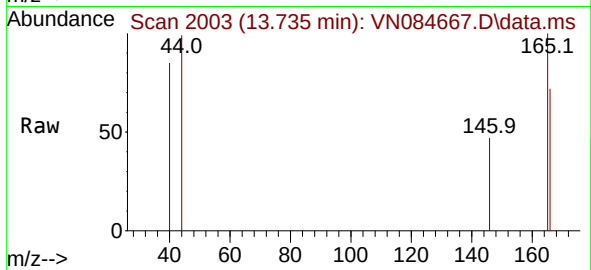
Lab File: VN084667.D

Acq: 04 Nov 2024 19:06

Instrument :

MSVOA_N

ClientSampleId :



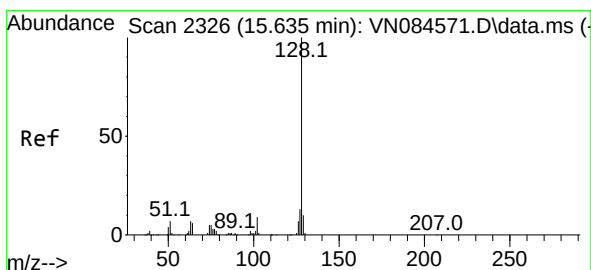
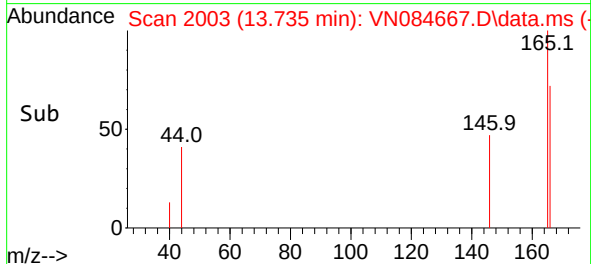
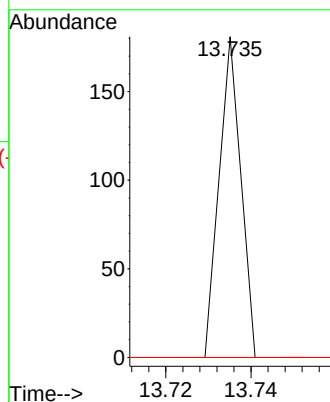
Tgt Ion:146 Resp: 64

Ion Ratio Lower Upper

146 100

111 0.0 21.2 63.6#

148 0.0 31.9 95.9#



#95

Naphthalene

Concen: 3.122 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. 0.006 min

Lab File: VN084667.D

Acq: 04 Nov 2024 19:06

Tgt Ion:128 Resp: 23557

Ion Ratio Lower Upper

128 100

127 12.8 10.5 15.7

129 11.0 8.7 13.1

