

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084602.D
 Acq On : 31 Oct 2024 05:45
 Operator : JC\MD
 Sample : P4612-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MOO-24-00335

Quant Time: Nov 01 05:21:55 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)

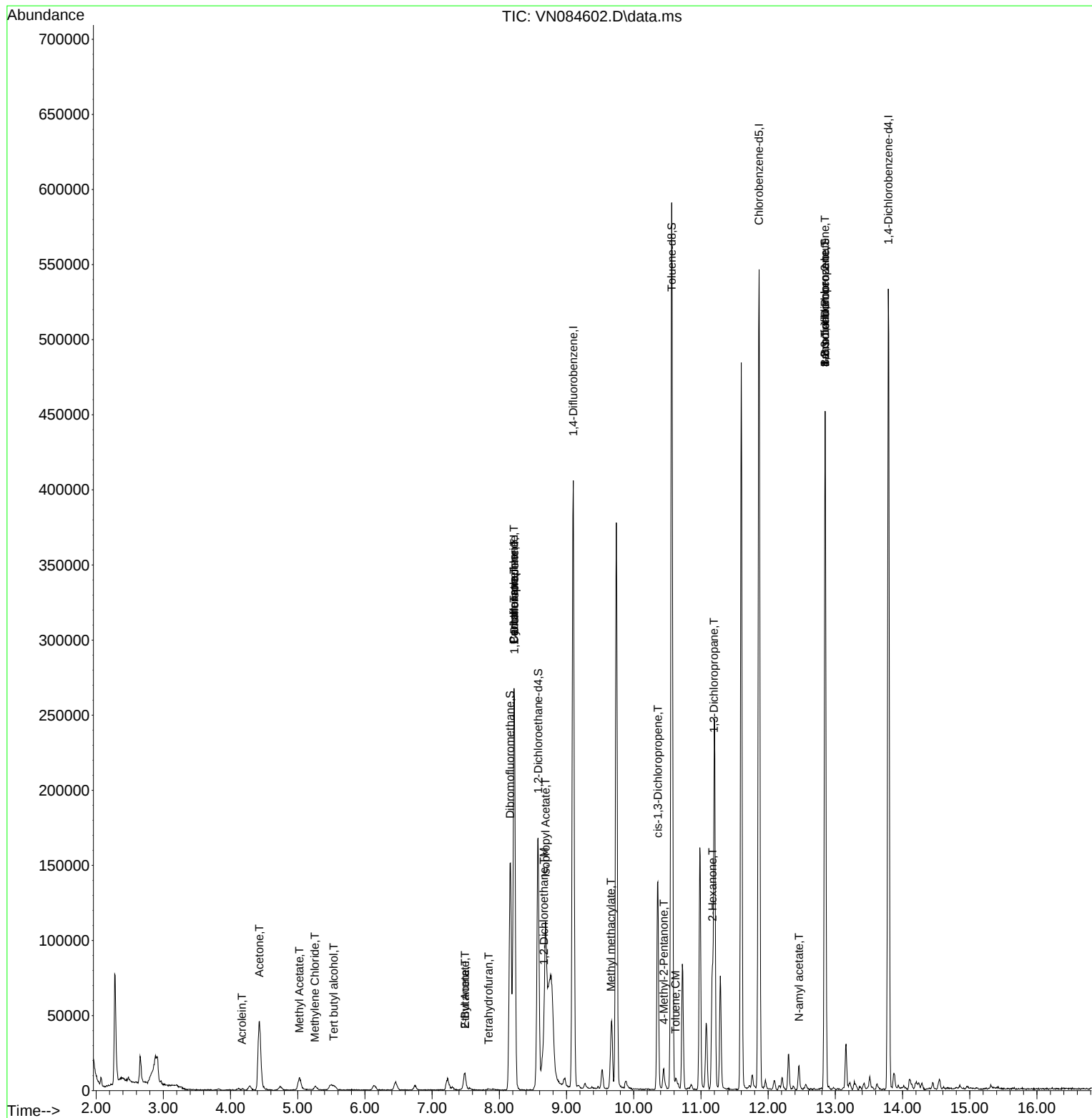
Internal Standards						
1) Pentafluorobenzene	8.218	168	186825	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	341801	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	313987	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	142248	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	137641	51.009	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 102.020%			
35) Dibromofluoromethane	8.159	113	110424	47.729	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.460%			
50) Toluene-d8	10.565	98	409027	47.994	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 95.980%			
62) 4-Bromofluorobenzene	12.847	95	155292	48.755	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.520%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	1301	Below Cal	#	41
6) Chloroethane	3.036	64	119	Below Cal	#	45
11) Tert butyl alcohol	5.536	59	4717	13.243	ug/l #	77
13) Acrolein	4.171	56	1152	3.244	ug/l	95
16) Acetone	4.430	43	88362	111.786	ug/l	100
18) Methyl Acetate	5.024	43	17822	2.464	ug/l	98
20) Methylene Chloride	5.253	84	1848	0.779	ug/l #	64
25) 2-Butanone	7.489	43	19795	15.724	ug/l	90
29) Tetrahydrofuran	7.841	42	908	1.087	ug/l #	39
31) Cyclohexane	8.218	56	3932	1.055	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	16586	5.169	ug/l #	50
37) Ethyl Acetate	7.489	43	19795	6.800	ug/l #	69
38) Carbon Tetrachloride	8.218	117	20578	5.738	ug/l #	15
42) 1,2-Dichloroethane	8.665	62	693	0.208	ug/l #	75
43) Isopropyl Acetate	8.688	43	160071	29.365	ug/l #	73
48) Methyl methacrylate	9.659	41	4041	1.784	ug/l #	41
51) 4-Methyl-2-Pentanone	10.447	43	10951	3.946	ug/l #	86
52) Toluene	10.624	92	2330	0.387	ug/l	99
54) cis-1,3-Dichloropropene	10.359	75	25157	6.387	ug/l #	64
57) 1,3-Dichloropropane	11.194	76	2481	0.637	ug/l #	42
59) 2-Hexanone	11.171	43	68173	33.748	ug/l #	24
71) Bromoform	12.847	173	1018	0.554	ug/l #	1
74) N-amyl acetate	12.459	43	11933	2.813	ug/l #	46
76) 1,2,3-Trichloropropane	12.847	75	80307	28.243	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	80307	67.003	ug/l #	11
88) 1,4-Dichlorobenzene	13.818	146	183	Below Cal	#	24

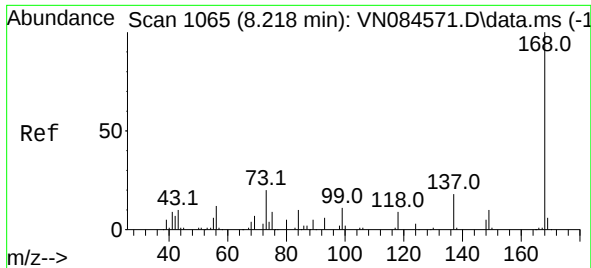
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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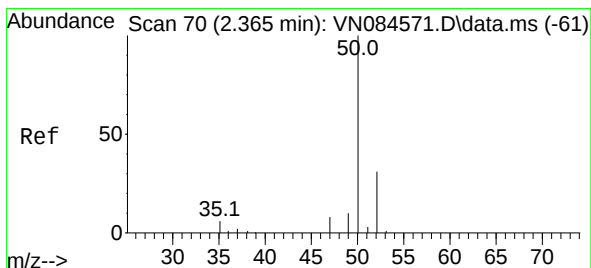
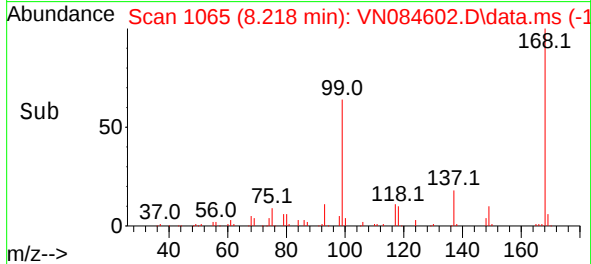
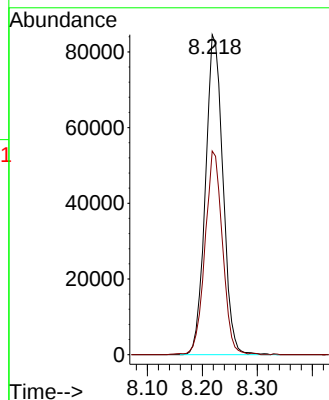
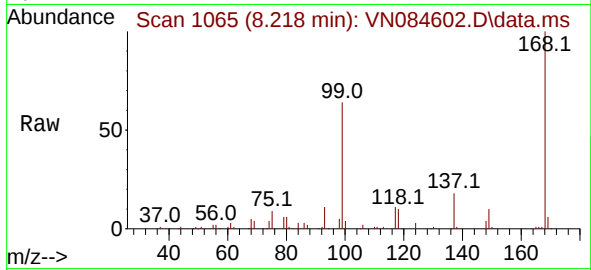




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN084602.D
Acq: 31 Oct 2024 05:45

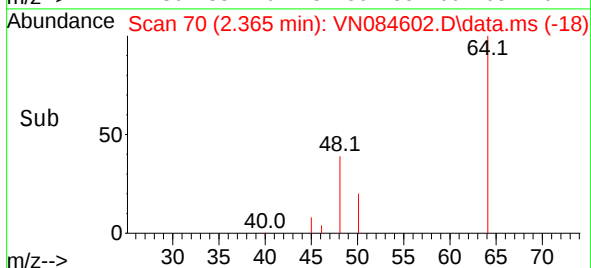
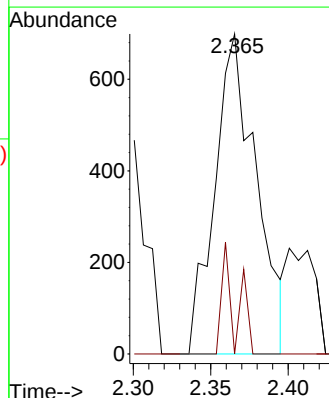
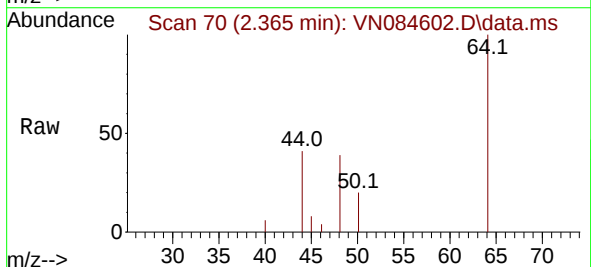
Instrument :
MSVOA_N
ClientSampleId :
MOO-24-00335

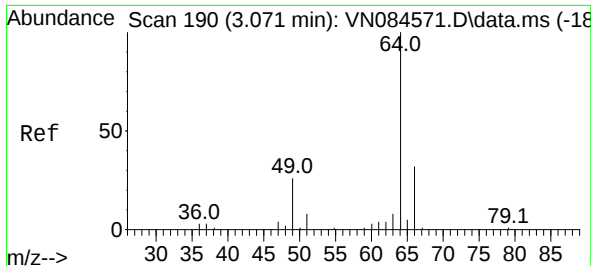
Tgt Ion:168 Resp: 186825
Ion Ratio Lower Upper
168 100
99 63.7 54.2 81.2



#3
Chloromethane
Concen: Below Cal
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN084602.D
Acq: 31 Oct 2024 05:45

Tgt Ion: 50 Resp: 1301
Ion Ratio Lower Upper
50 100
52 0.0 26.8 40.2#

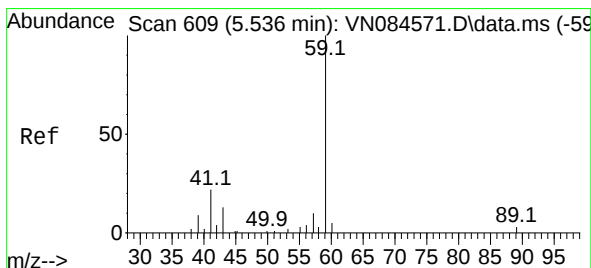
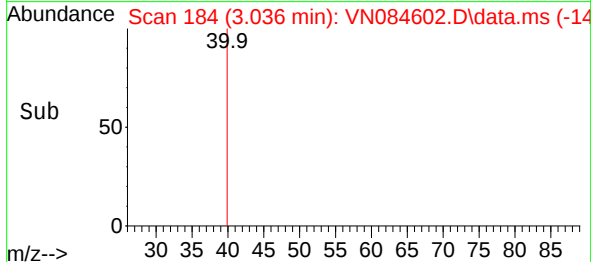
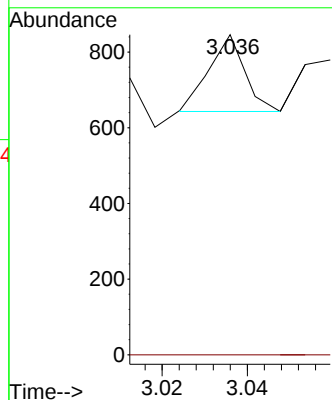
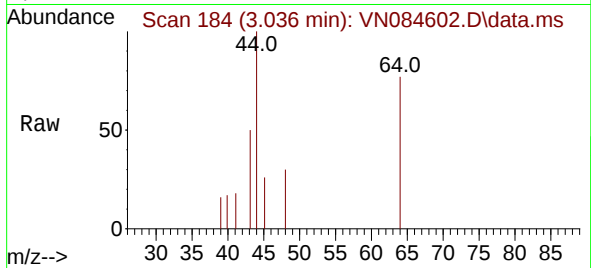




#6
Chloroethane
Concen: Below Cal
RT: 3.036 min Scan# 119
Delta R.T. -0.082 min
Lab File: VN084602.D
Acq: 31 Oct 2024 05:45

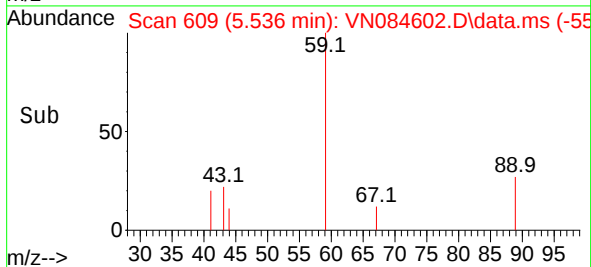
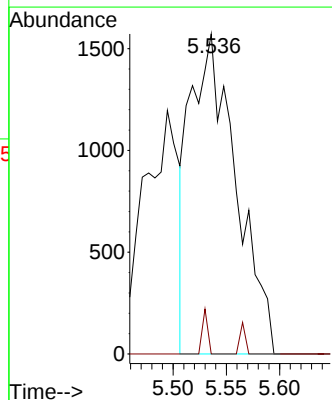
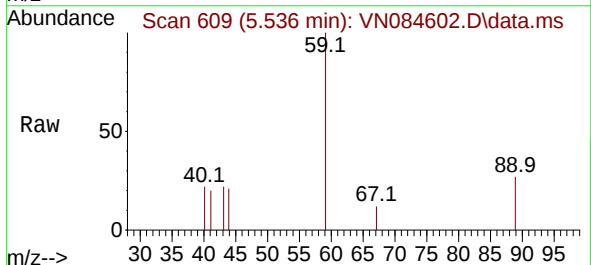
Instrument :
MSVOA_N
ClientSampleId :
MOO-24-00335

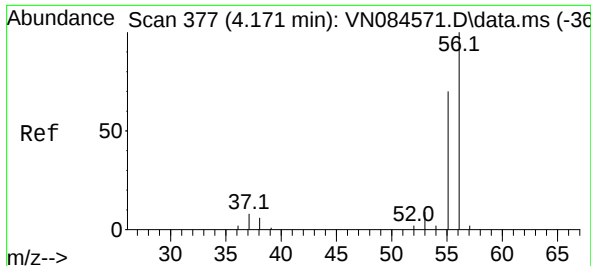
Tgt Ion: 64 Resp: 119
Ion Ratio Lower Upper
64 100
66 0.0 23.5 35.3#



#11
Tert butyl alcohol
Concen: 13.243 ug/l
RT: 5.536 min Scan# 609
Delta R.T. 0.012 min
Lab File: VN084602.D
Acq: 31 Oct 2024 05:45

Tgt Ion: 59 Resp: 4717
Ion Ratio Lower Upper
59 100
57 1.7 8.2 12.2#





#13

Acrolein

Concen: 3.244 ug/l

RT: 4.171 min Scan# 31

Delta R.T. -0.006 min

Lab File: VN084602.D

Acq: 31 Oct 2024 05:45

Instrument :

MSVOA_N

ClientSampleId :

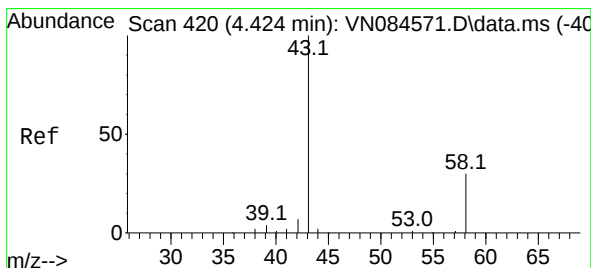
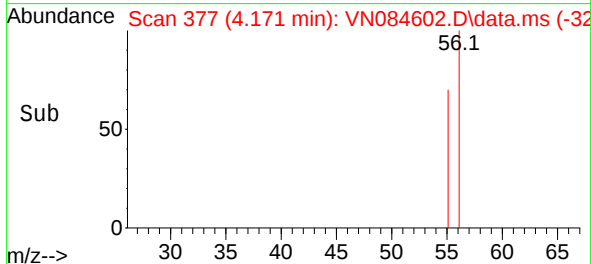
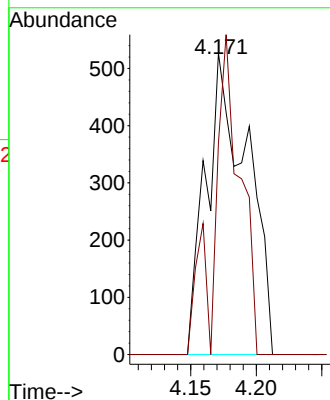
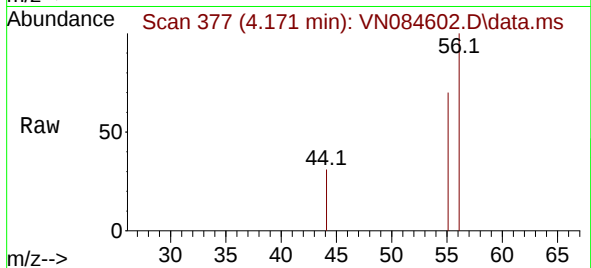
MOO-24-00335

Tgt Ion: 56 Resp: 1152

Ion Ratio Lower Upper

56 100

55 67.6 57.2 85.8



#16

Acetone

Concen: 111.786 ug/l

RT: 4.430 min Scan# 421

Delta R.T. 0.006 min

Lab File: VN084602.D

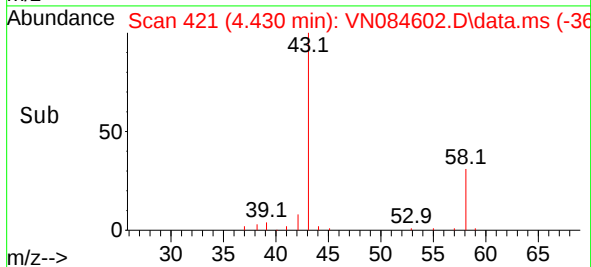
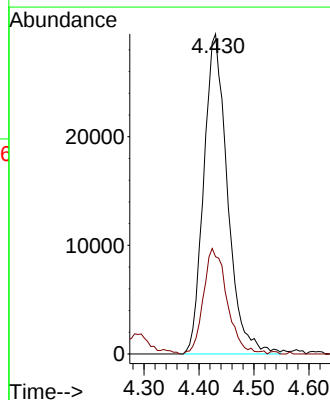
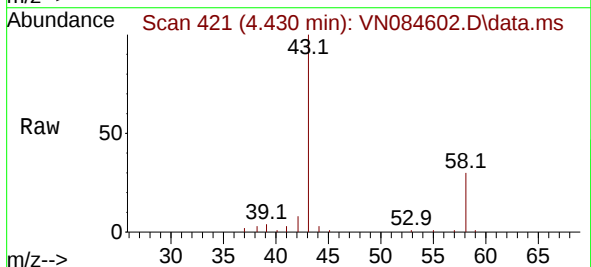
Acq: 31 Oct 2024 05:45

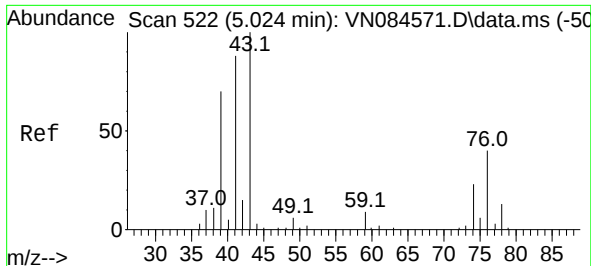
Tgt Ion: 43 Resp: 88362

Ion Ratio Lower Upper

43 100

58 30.4 24.4 36.6

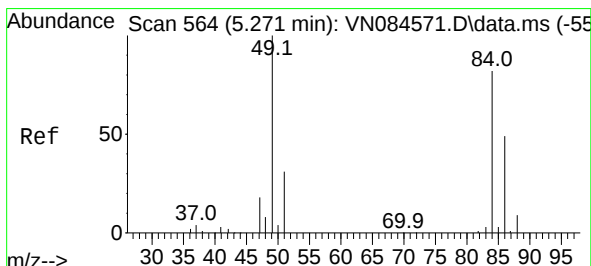
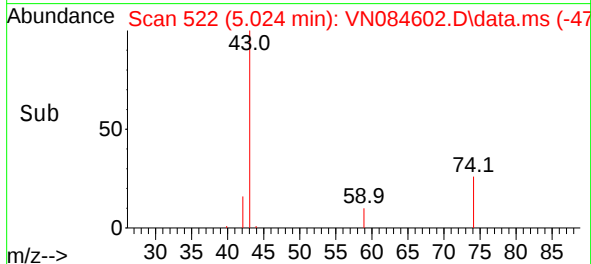
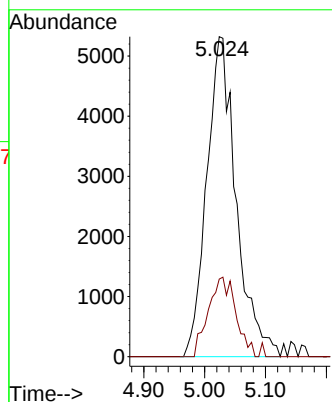
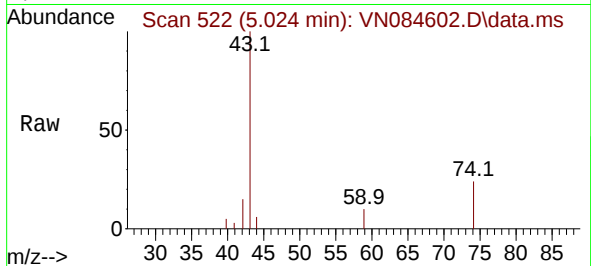




#18
Methyl Acetate
Concen: 2.464 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN084602.D
Acq: 31 Oct 2024 05:45

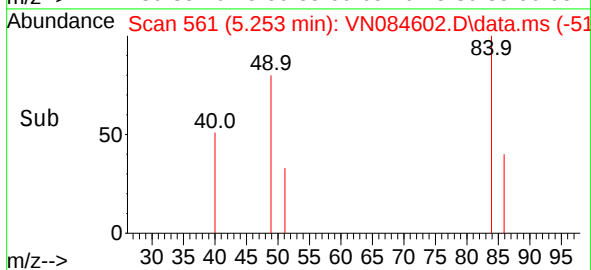
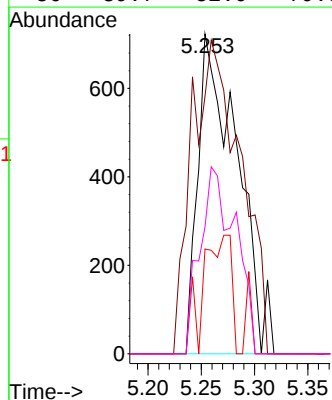
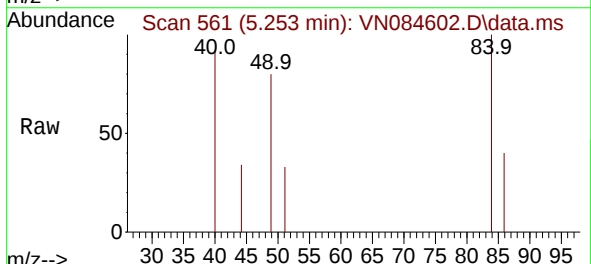
Instrument :
MSVOA_N
ClientSampleId :
MOO-24-00335

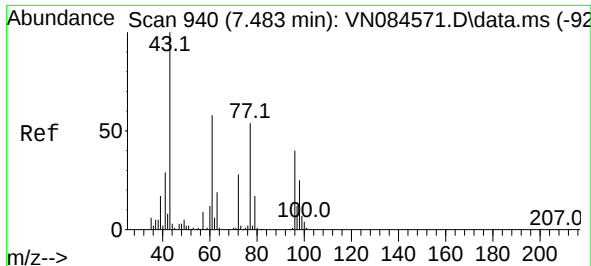
Tgt Ion: 43 Resp: 17822
Ion Ratio Lower Upper
43 100
74 23.2 19.2 28.8



#20
Methylene Chloride
Concen: 0.779 ug/l
RT: 5.253 min Scan# 561
Delta R.T. -0.024 min
Lab File: VN084602.D
Acq: 31 Oct 2024 05:45

Tgt Ion: 84 Resp: 1848
Ion Ratio Lower Upper
84 100
49 80.5 107.2 160.8#
51 32.8 31.8 47.8
86 39.7 52.9 79.3#

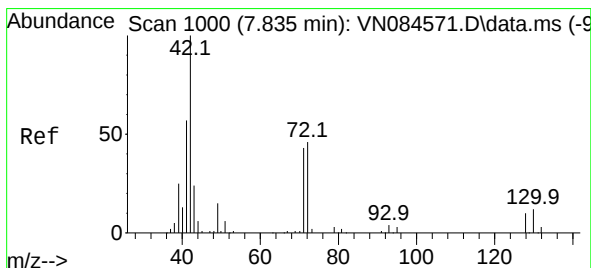
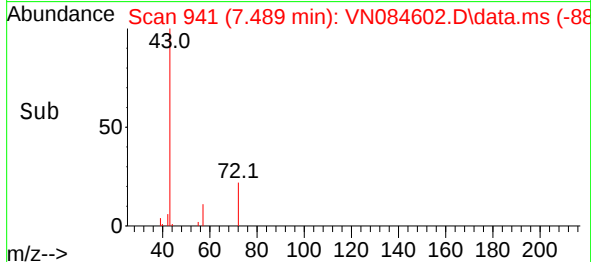
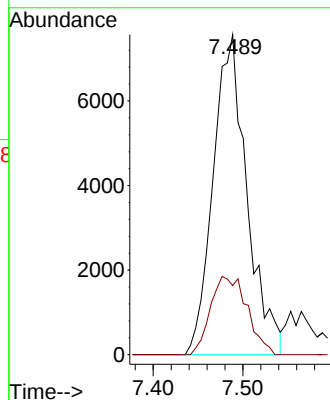
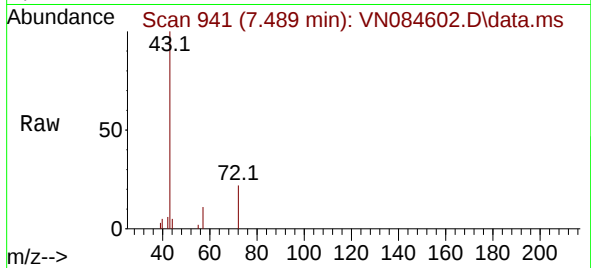




#25
2-Butanone
Concen: 15.724 ug/l
RT: 7.489 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN084602.D
Acq: 31 Oct 2024 05:45

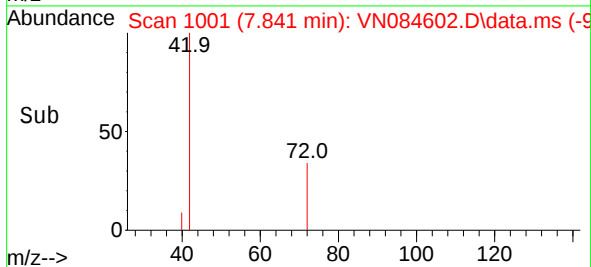
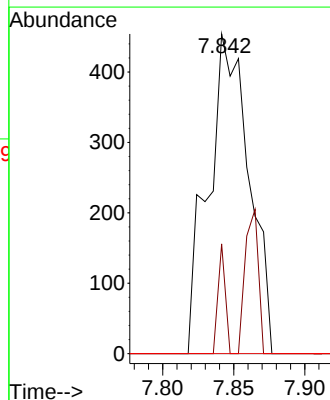
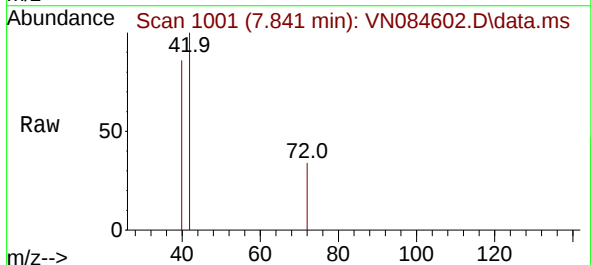
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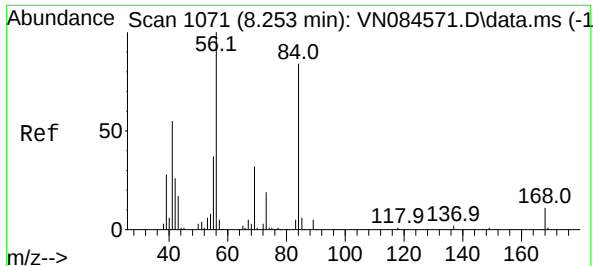
Tgt Ion: 43 Resp: 19795
Ion Ratio Lower Upper
43 100
72 21.6 21.4 32.2



#29
Tetrahydrofuran
Concen: 1.087 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VN084602.D
Acq: 31 Oct 2024 05:45

Tgt Ion: 42 Resp: 908
Ion Ratio Lower Upper
42 100
72 6.1 34.6 51.8#
71 0.0 32.2 48.4#

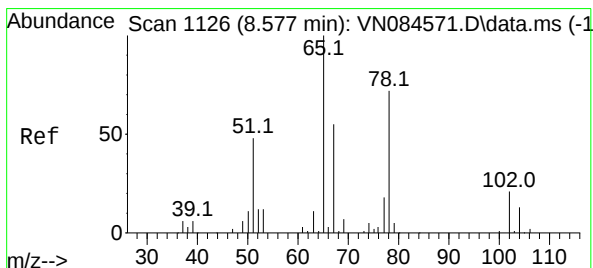
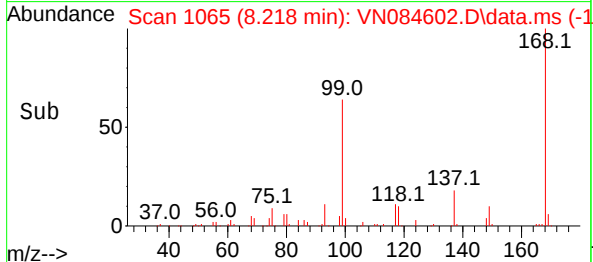
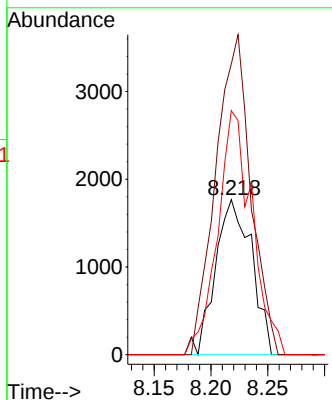
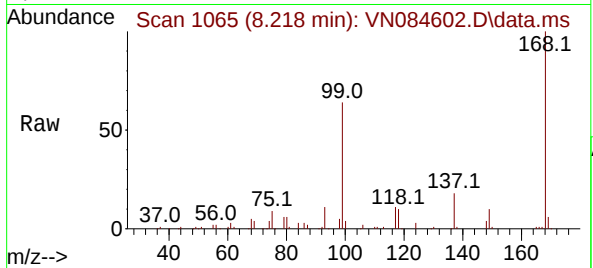




#31
Cyclohexane
Concen: 1.055 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN084602.D
Acq: 31 Oct 2024 05:45

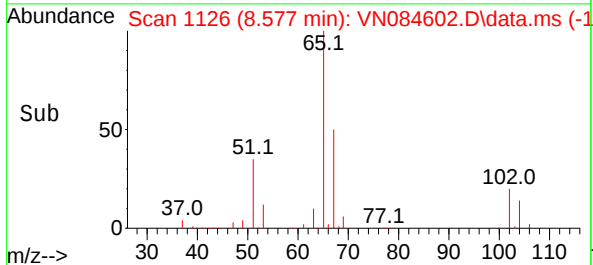
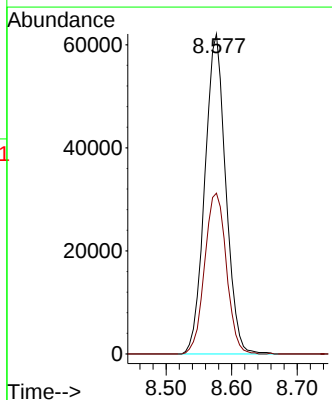
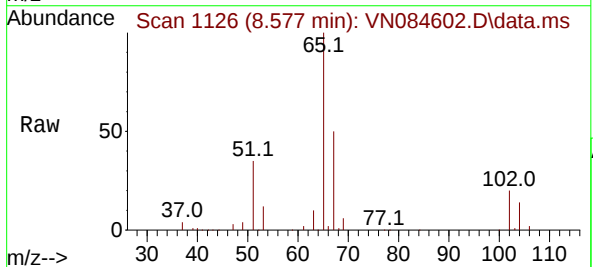
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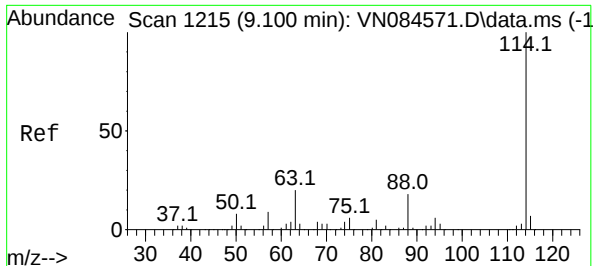
Tgt Ion: 56 Resp: 3932
Ion Ratio Lower Upper
56 100
69 187.5 23.8 35.6#
84 157.4 68.8 103.2#



#33
1,2-Dichloroethane-d4
Concen: 51.009 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN084602.D
Acq: 31 Oct 2024 05:45

Tgt Ion: 65 Resp: 137641
Ion Ratio Lower Upper
65 100
67 52.3 0.0 102.0

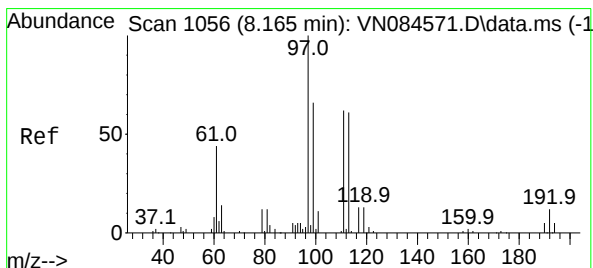
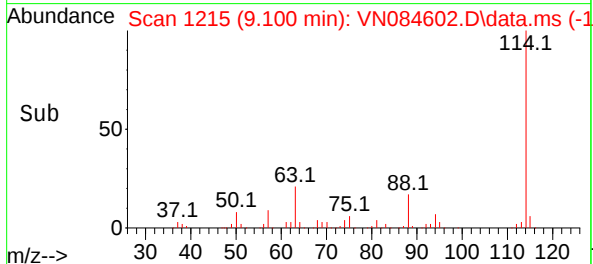
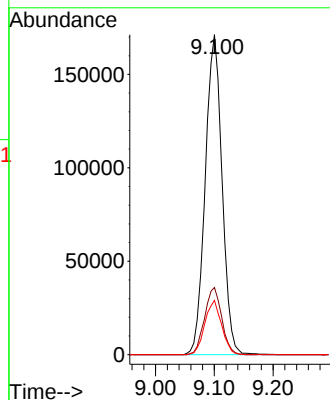
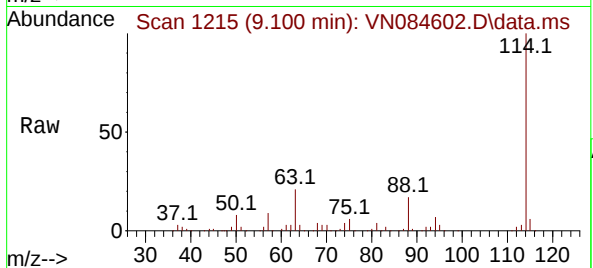




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN084602.D
Acq: 31 Oct 2024 05:45

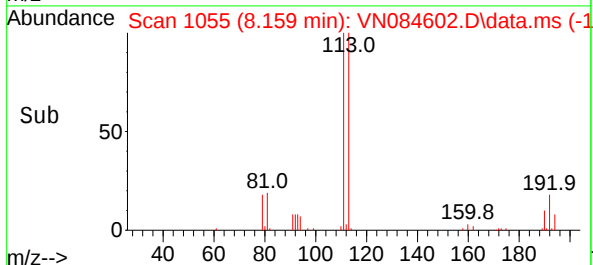
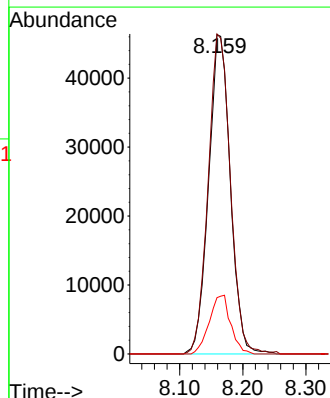
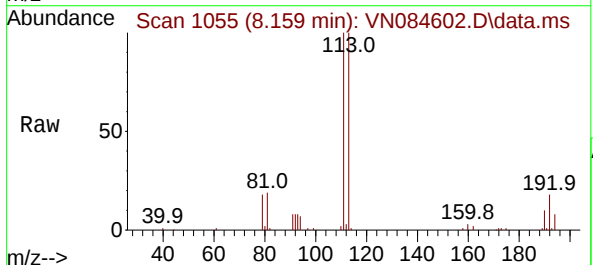
Instrument :
MSVOA_N
ClientSampleId :
MOO-24-00335

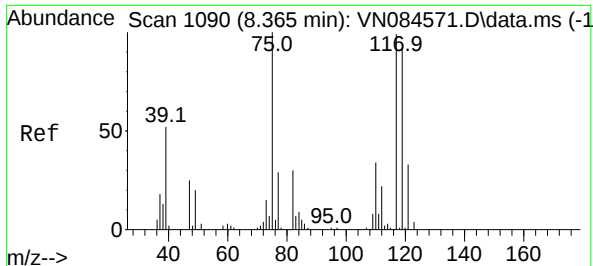
Tgt Ion:114 Resp: 341801
Ion Ratio Lower Upper
114 100
63 21.0 0.0 43.8
88 16.9 0.0 31.6



#35
Dibromofluoromethane
Concen: 47.729 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VN084602.D
Acq: 31 Oct 2024 05:45

Tgt Ion:113 Resp: 110424
Ion Ratio Lower Upper
113 100
111 102.6 83.3 124.9
192 18.1 13.5 20.3

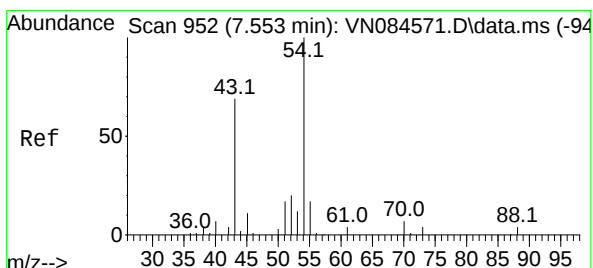
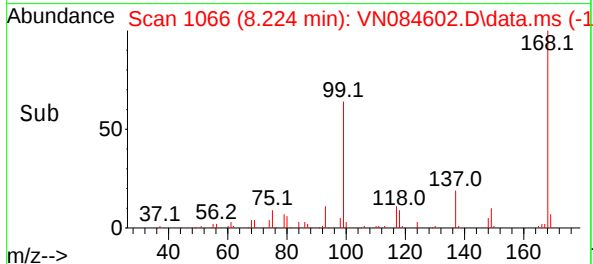
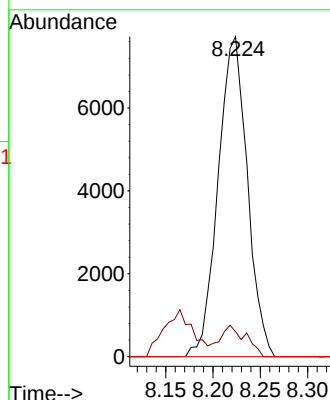
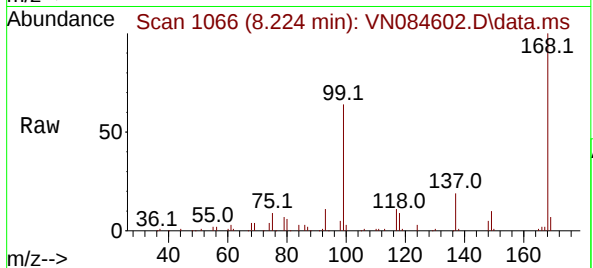




#36
1,1-Dichloropropene
Concen: 5.169 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.147 min
Lab File: VN084602.D
Acq: 31 Oct 2024 05:45

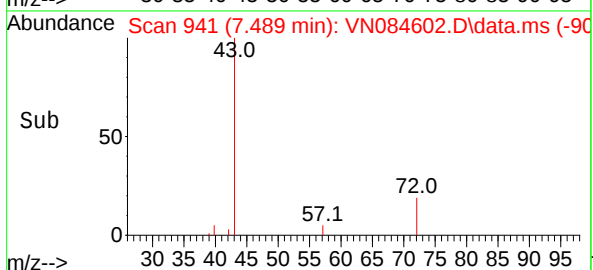
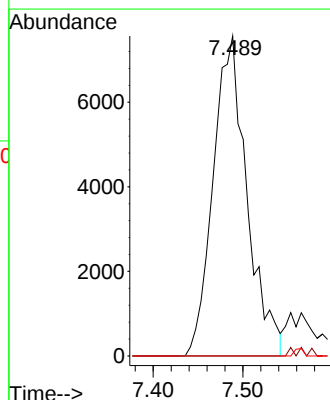
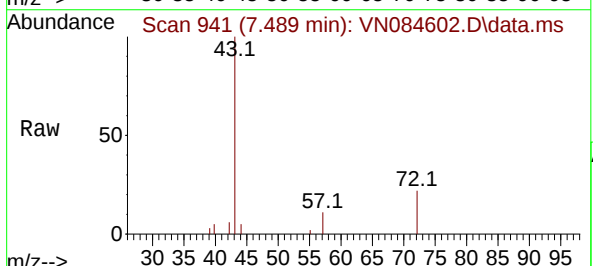
Instrument :
MSVOA_N
ClientSampleId :
MOO-24-00335

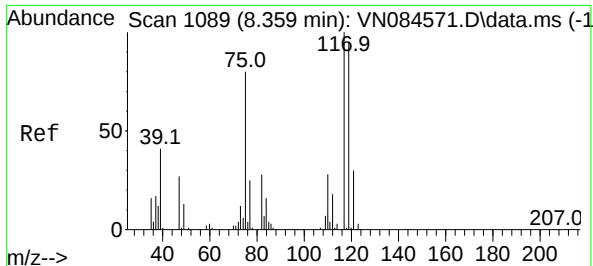
Tgt Ion: 75 Resp: 16586
Ion Ratio Lower Upper
75 100
110 8.8 16.9 50.7#
77 0.0 24.7 37.1#



#37
Ethyl Acetate
Concen: 6.800 ug/l
RT: 7.489 min Scan# 941
Delta R.T. -0.070 min
Lab File: VN084602.D
Acq: 31 Oct 2024 05:45

Tgt Ion: 43 Resp: 19795
Ion Ratio Lower Upper
43 100
61 0.0 10.7 16.1#
70 0.0 8.8 13.2#





#38

Carbon Tetrachloride

Concen: 5.738 ug/l

RT: 8.218 min Scan# 1

Delta R.T. -0.141 min

Lab File: VN084602.D

Acq: 31 Oct 2024 05:45

Instrument :

MSVOA_N

ClientSampleId :

MOO-24-00335

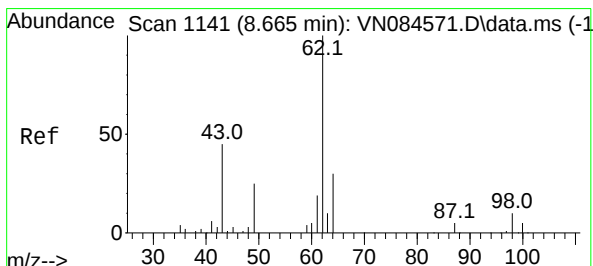
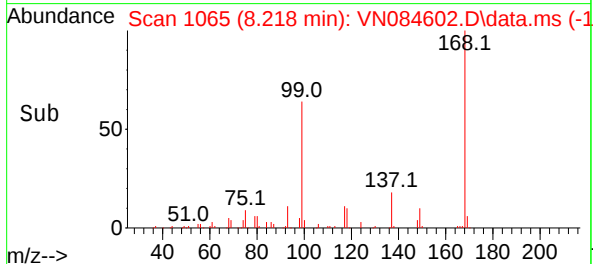
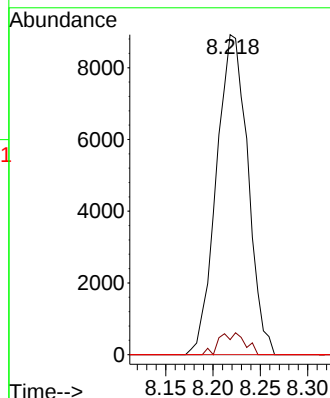
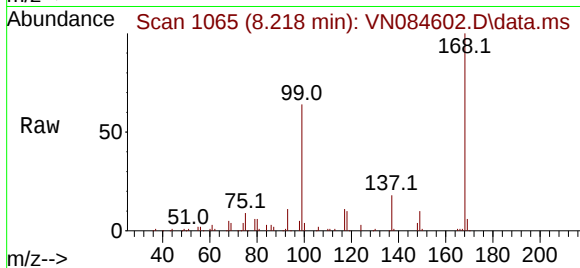
Tgt Ion:117 Resp: 20578

Ion Ratio Lower Upper

117 100

119 4.7 78.7 118.1#

121 0.0 24.4 36.6#



#42

1,2-Dichloroethane

Concen: 0.208 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.006 min

Lab File: VN084602.D

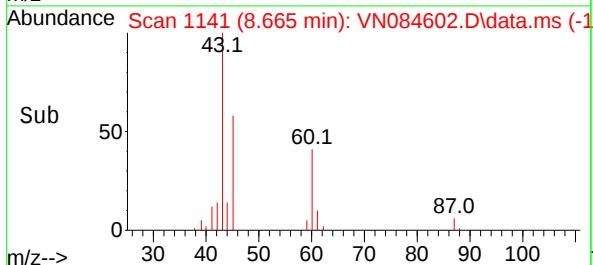
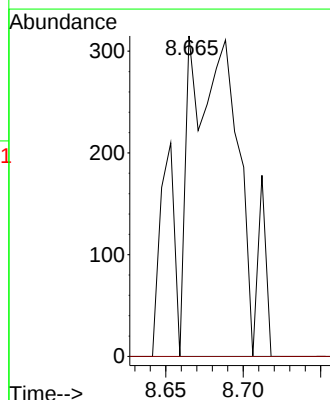
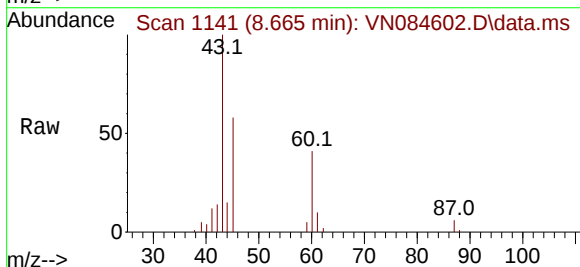
Acq: 31 Oct 2024 05:45

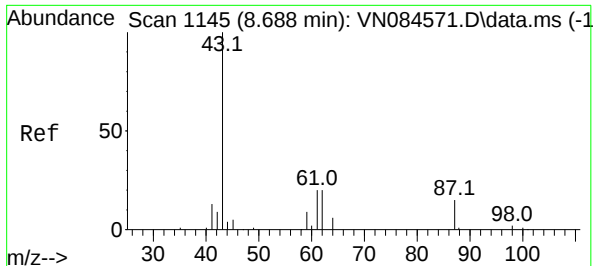
Tgt Ion: 62 Resp: 693

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.2





#43

Isopropyl Acetate

Concen: 29.365 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN084602.D

Acq: 31 Oct 2024 05:45

Instrument :

MSVOA_N

ClientSampleId :

MOO-24-00335

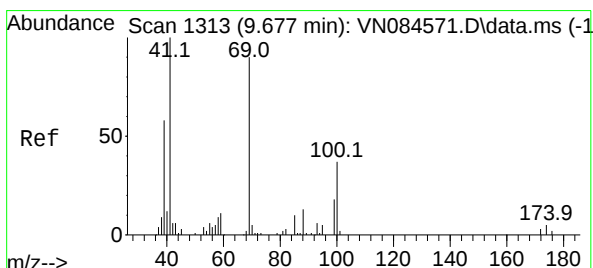
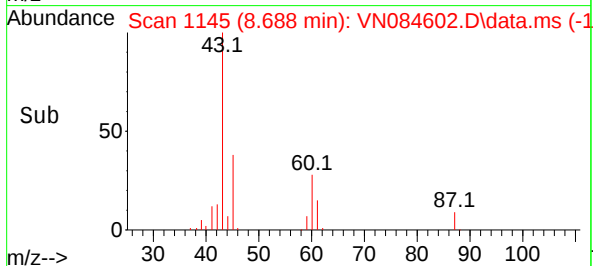
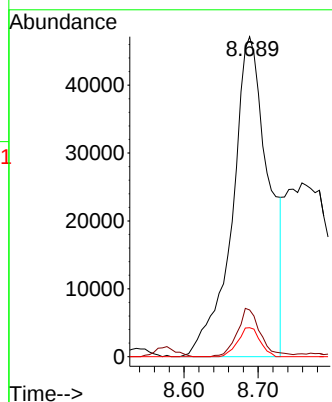
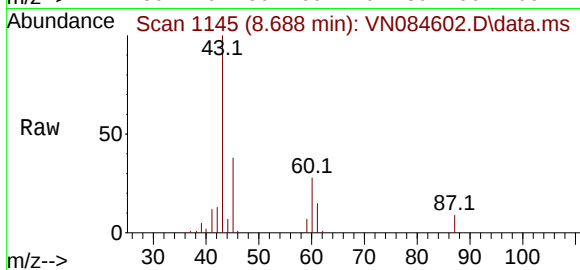
Tgt Ion: 43 Resp: 160071

Ion Ratio Lower Upper

43 100

61 9.6 20.4 30.6#

87 5.5 10.3 15.5#



#48

Methyl methacrylate

Concen: 1.784 ug/l

RT: 9.659 min Scan# 1310

Delta R.T. -0.018 min

Lab File: VN084602.D

Acq: 31 Oct 2024 05:45

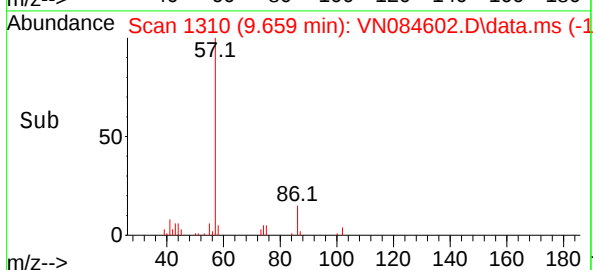
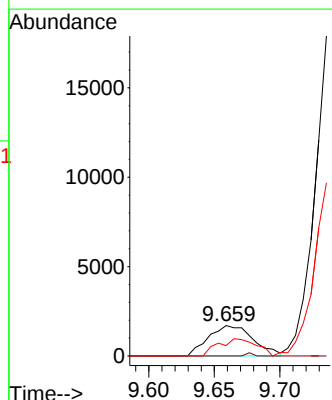
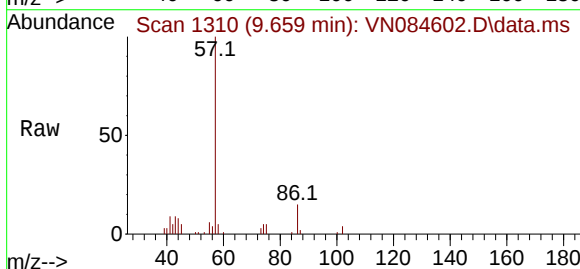
Tgt Ion: 41 Resp: 4041

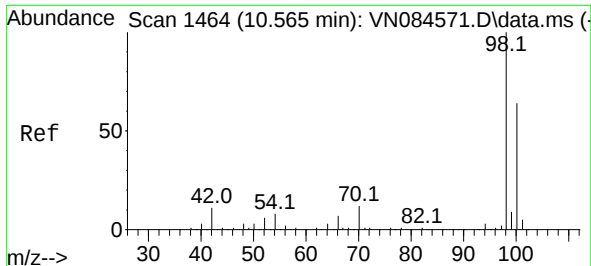
Ion Ratio Lower Upper

41 100

69 1.5 67.1 100.7#

39 48.4 45.8 68.6





#50

Toluene-d8

Concen: 47.994 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN084602.D

Acq: 31 Oct 2024 05:45

Instrument :

MSVOA_N

ClientSampleId :

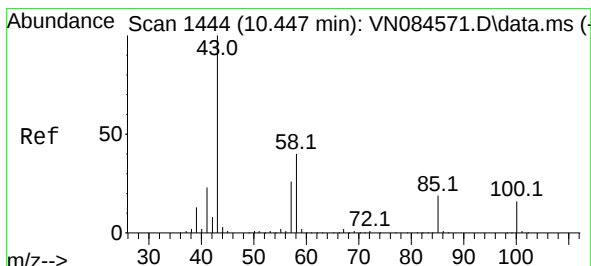
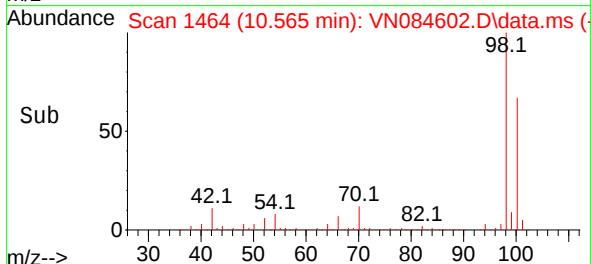
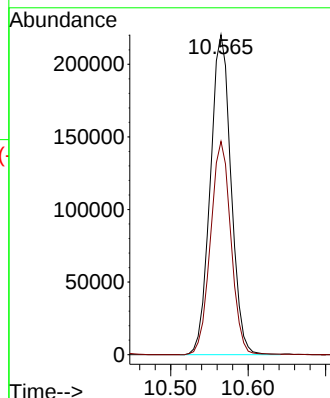
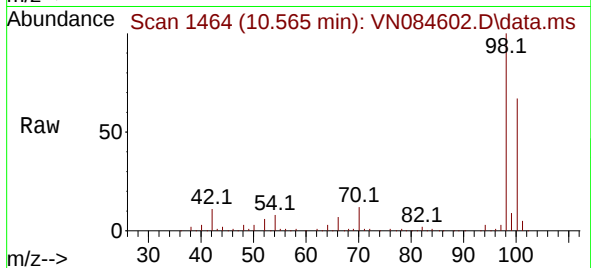
MOO-24-00335

Tgt Ion: 98 Resp: 409027

Ion Ratio Lower Upper

98 100

100 65.6 52.7 79.1



#51

4-Methyl-2-Pentanone

Concen: 3.946 ug/l

RT: 10.447 min Scan# 1444

Delta R.T. 0.006 min

Lab File: VN084602.D

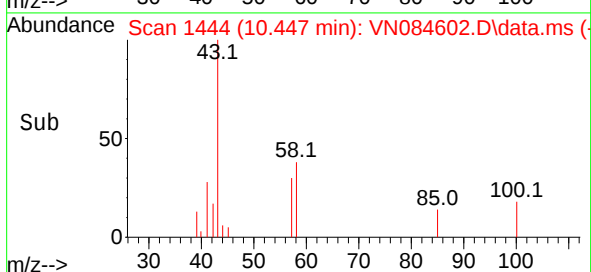
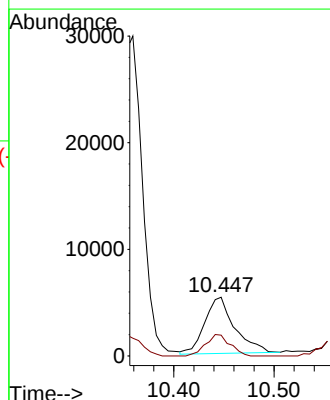
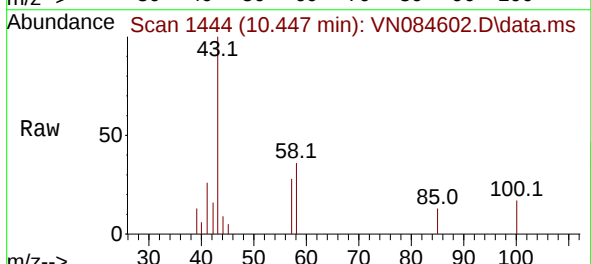
Acq: 31 Oct 2024 05:45

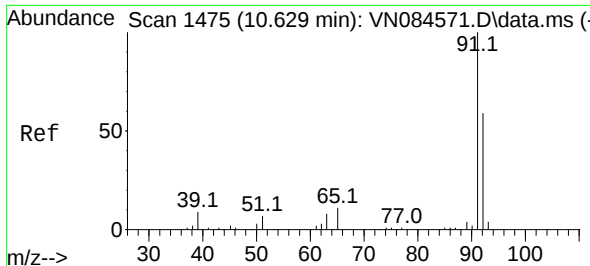
Tgt Ion: 43 Resp: 10951

Ion Ratio Lower Upper

43 100

58 31.0 31.6 47.4#

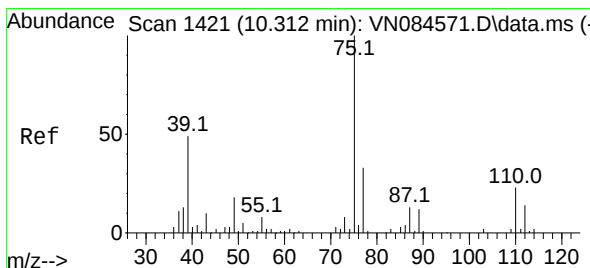
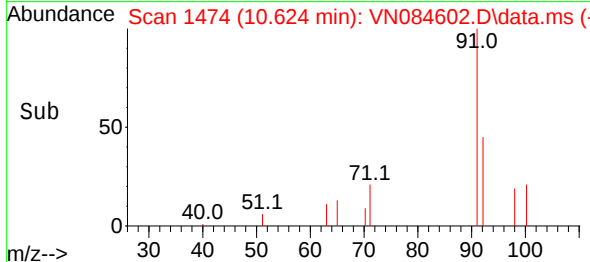
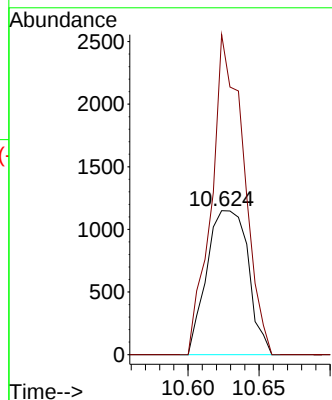
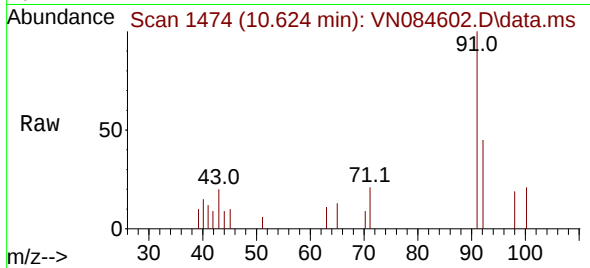




#52
Toluene
Concen: 0.387 ug/l
RT: 10.624 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN084602.D
Acq: 31 Oct 2024 05:45

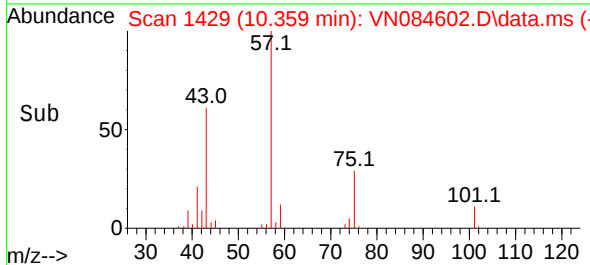
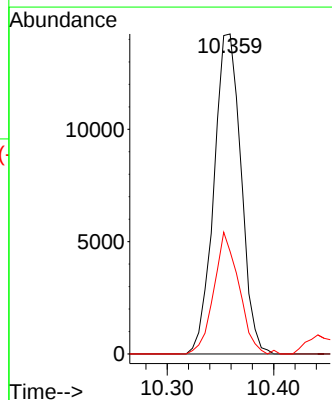
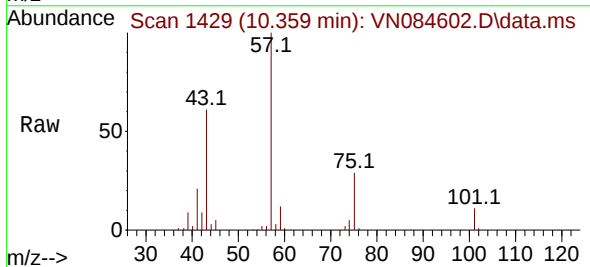
Instrument :
MSVOA_N
ClientSampleId :
MOO-24-00335

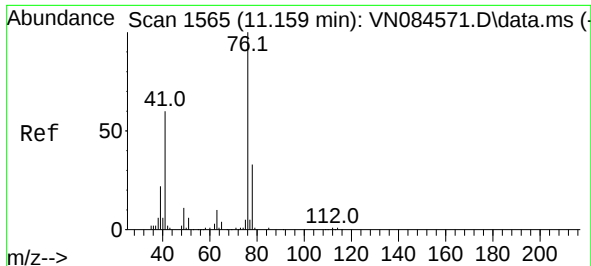
Tgt Ion: 92 Resp: 2330
Ion Ratio Lower Upper
92 100
91 173.1 137.3 205.9



#54
cis-1,3-Dichloropropene
Concen: 6.387 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN084602.D
Acq: 31 Oct 2024 05:45

Tgt Ion: 75 Resp: 25157
Ion Ratio Lower Upper
75 100
77 0.0 24.2 36.2#
39 32.0 38.7 58.1#





#57

1,3-Dichloropropane

Concen: 0.637 ug/l

RT: 11.194 min Scan# 1567

Delta R.T. 0.035 min

Lab File: VN084602.D

Acq: 31 Oct 2024 05:45

Instrument :

MSVOA_N

ClientSampleId :

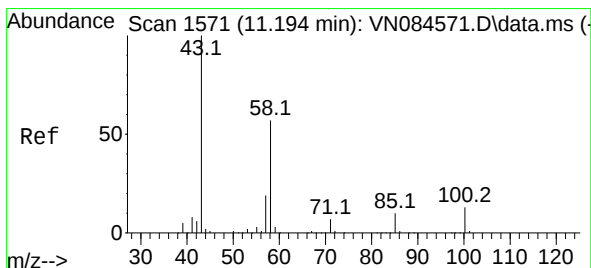
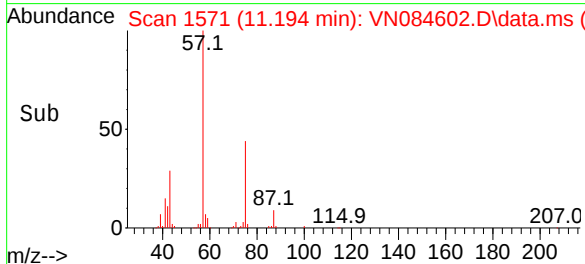
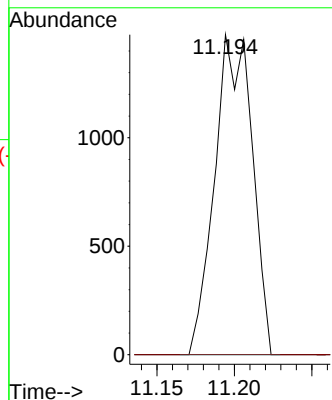
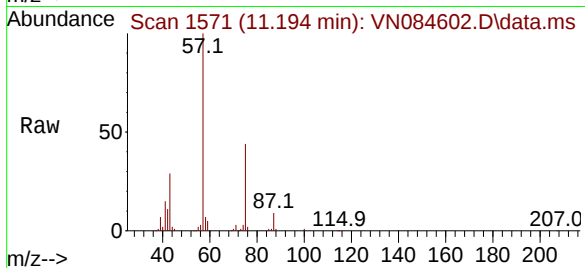
MOO-24-00335

Tgt Ion: 76 Resp: 2481

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 33.748 ug/l

RT: 11.171 min Scan# 1567

Delta R.T. -0.023 min

Lab File: VN084602.D

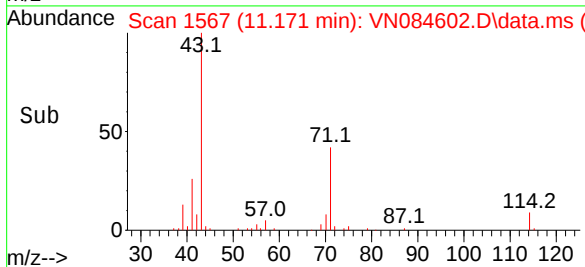
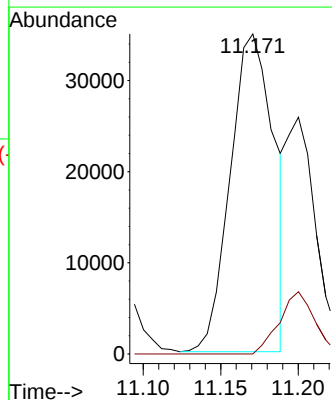
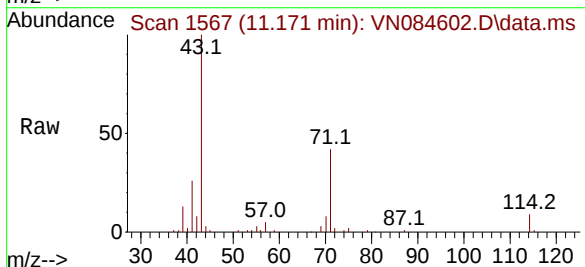
Acq: 31 Oct 2024 05:45

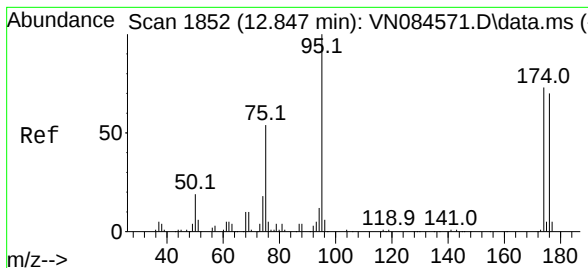
Tgt Ion: 43 Resp: 68173

Ion Ratio Lower Upper

43 100

58 0.0 27.3 81.8#

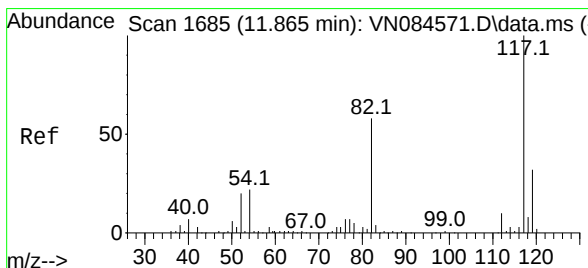
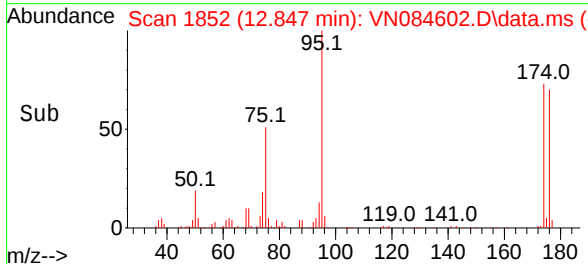
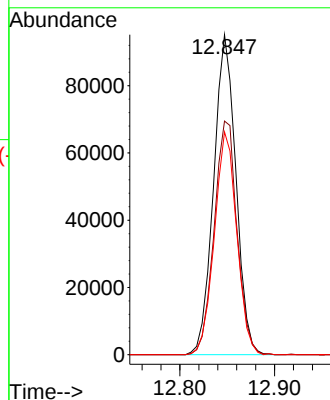
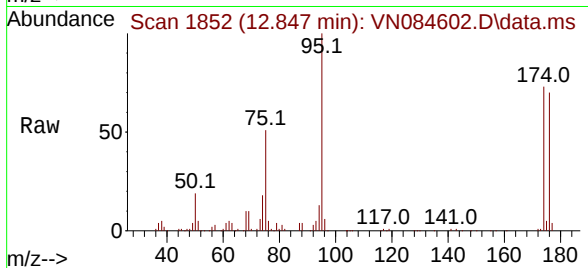




#62
4-Bromofluorobenzene
Concen: 48.755 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084602.D
Acq: 31 Oct 2024 05:45

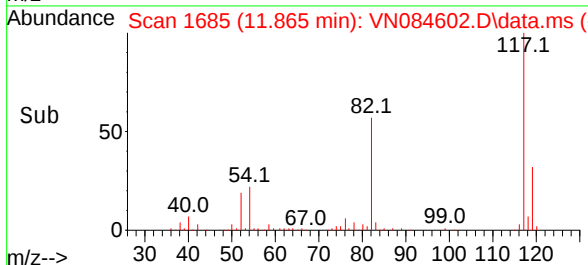
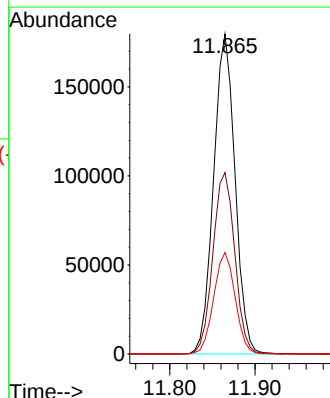
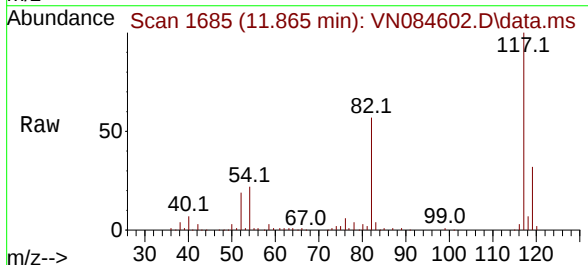
Instrument :
MSVOA_N
ClientSampleId :
MOO-24-00335

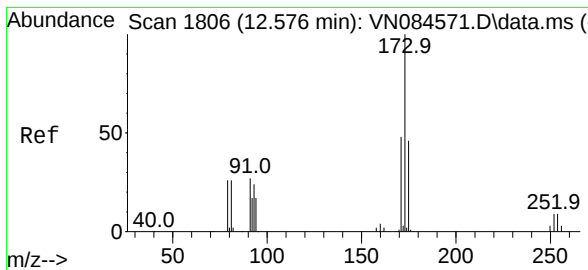
Tgt Ion: 95 Resp: 155292
Ion Ratio Lower Upper
95 100
174 75.4 0.0 145.2
176 70.0 0.0 140.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN084602.D
Acq: 31 Oct 2024 05:45

Tgt Ion: 117 Resp: 313987
Ion Ratio Lower Upper
117 100
82 56.7 47.2 70.8
119 31.7 25.4 38.0





#71

Bromoform

Concen: 0.554 ug/l

RT: 12.847 min Scan# 1806

Delta R.T. 0.271 min

Lab File: VN084602.D

Acq: 31 Oct 2024 05:45

Instrument :

MSVOA_N

ClientSampleId :

MOO-24-00335

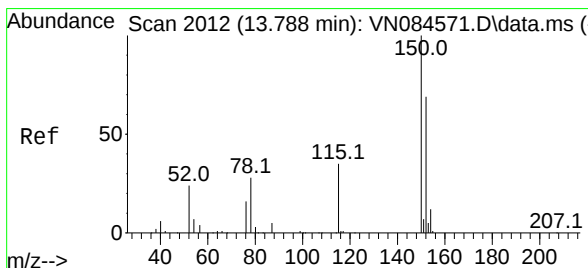
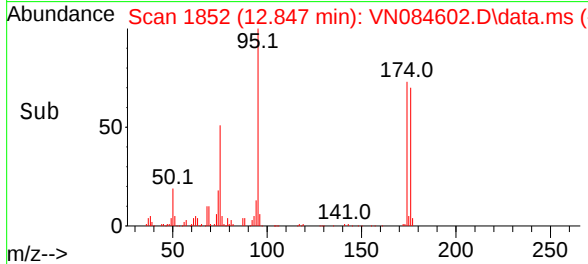
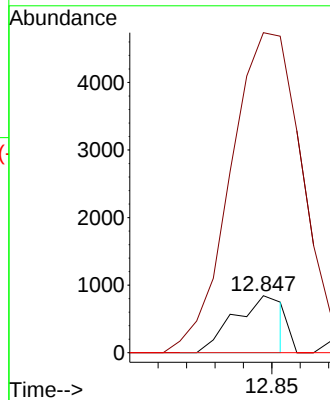
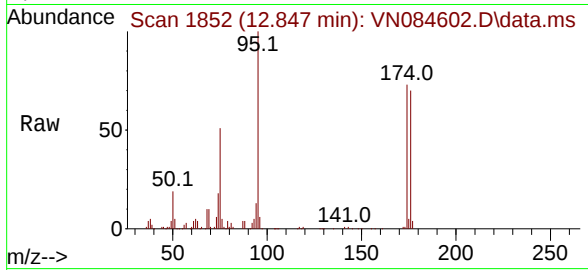
Tgt Ion:173 Resp: 1018

Ion Ratio Lower Upper

173 100

175 621.9 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# 1212

Delta R.T. 0.000 min

Lab File: VN084602.D

Acq: 31 Oct 2024 05:45

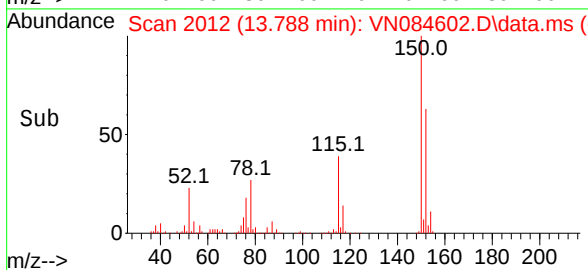
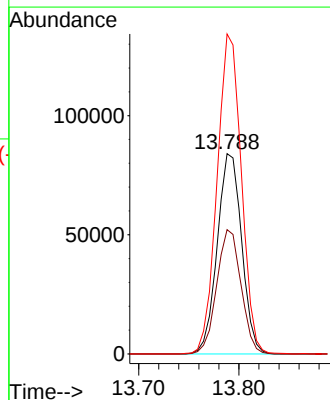
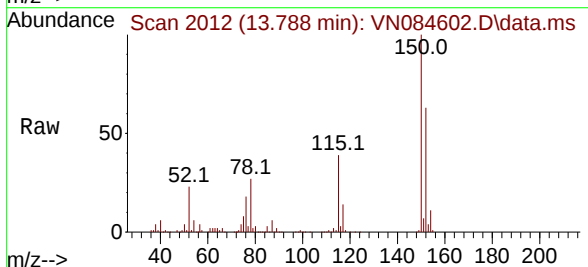
Tgt Ion:152 Resp: 142248

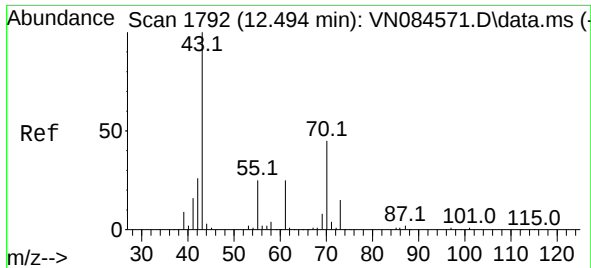
Ion Ratio Lower Upper

152 100

115 61.7 31.3 93.9

150 158.7 0.0 349.8

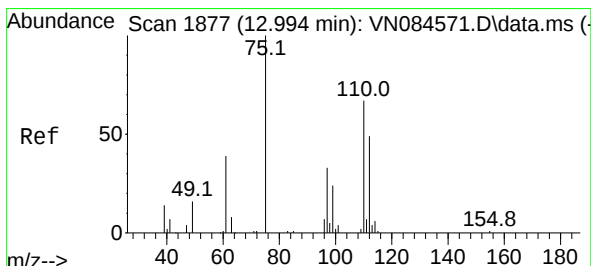
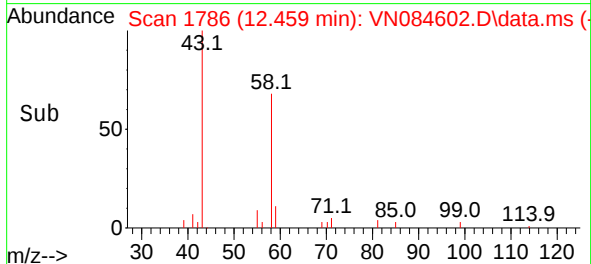
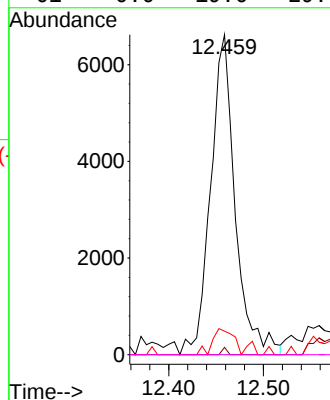
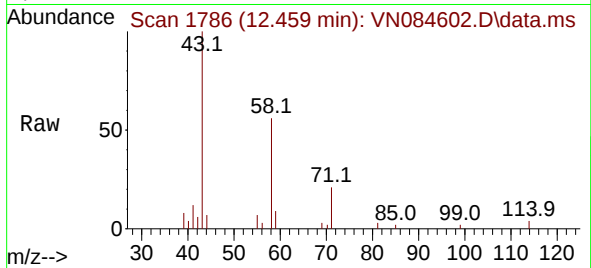




#74
N-amyI acetate
Concen: 2.813 ug/l
RT: 12.459 min Scan# 11933
Delta R.T. -0.035 min
Lab File: VN084602.D
Acq: 31 Oct 2024 05:45

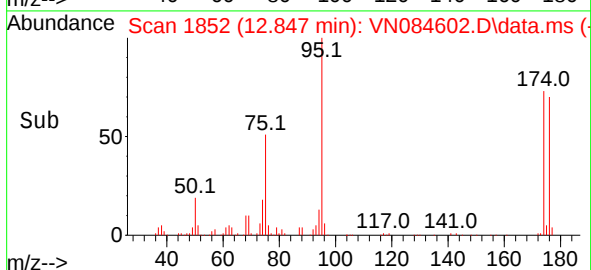
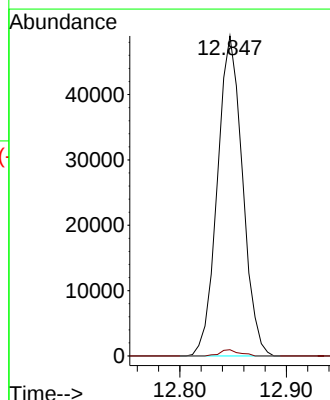
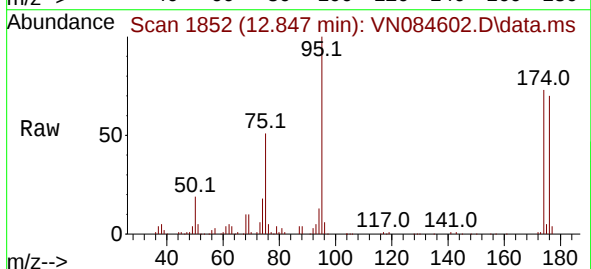
Instrument :
MSVOA_N
ClientSampleId :
MOO-24-00335

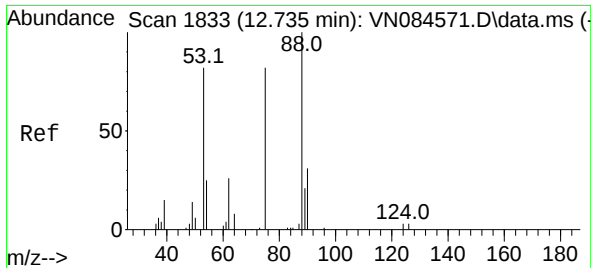
Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.5	34.4	51.6#
55	6.9	19.6	29.4#
61	0.0	19.6	29.4#



#76
1,2,3-Trichloropropane
Concen: 28.243 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN084602.D
Acq: 31 Oct 2024 05:45

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.5	96.9	290.7#

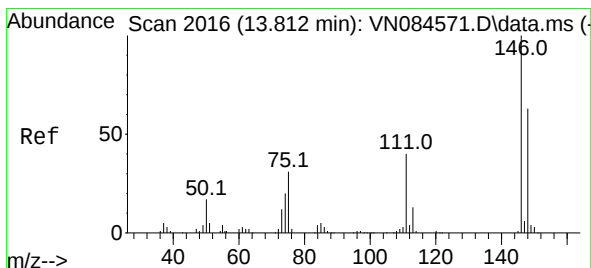
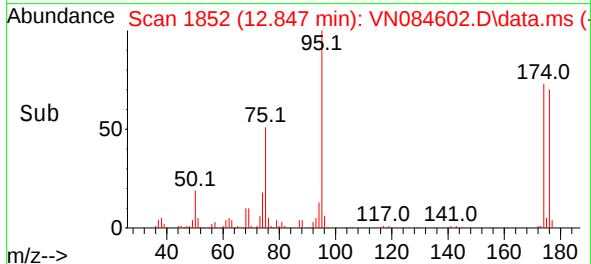
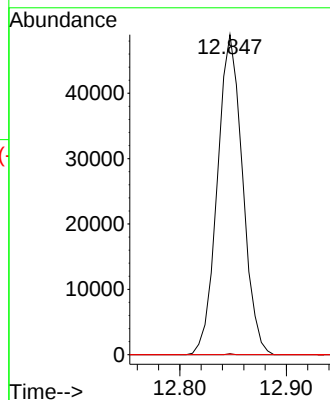
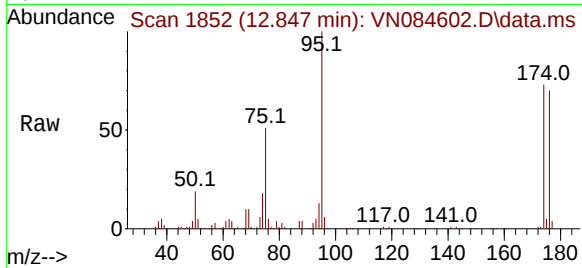




#81
trans-1,4-Dichloro-2-butene
Concen: 67.003 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN084602.D
Acq: 31 Oct 2024 05:45

Instrument :
MSVOA_N
ClientSampleId :
MOO-24-00335

Tgt Ion: 75 Resp: 80307
Ion Ratio Lower Upper
75 100
53 0.1 78.0 117.0#
89 0.0 35.5 53.3#



#88
1,4-Dichlorobenzene
Concen: Below Cal
RT: 13.818 min Scan# 2017
Delta R.T. 0.006 min
Lab File: VN084602.D
Acq: 31 Oct 2024 05:45

Tgt Ion:146 Resp: 183
Ion Ratio Lower Upper
146 100
111 0.0 21.2 63.6#
148 0.0 31.9 95.9#

