

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042825\
 Data File : VN086415.D
 Acq On : 28 Apr 2025 16:45
 Operator : JC\MD
 Sample : PB167744ZHE#12
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167744ZHE#12

Quant Time: Apr 29 01:56:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	168373	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	325577	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	309788	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	138979	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	123180	50.451	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.900%			
35) Dibromofluoromethane	8.165	113	81051	53.639	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 107.280%			
50) Toluene-d8	10.565	98	418241	51.790	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.580%			
62) 4-Bromofluorobenzene	12.847	95	151042	51.278	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.560%			
Target Compounds						Qvalue
3) Chloromethane	2.359	50	825	0.284	ug/l	88
11) Tert butyl alcohol	5.524	59	976	2.191	ug/l #	72
16) Acetone	4.424	43	65907	74.059	ug/l	97
18) Methyl Acetate	5.024	43	3760	1.283	ug/l #	67
20) Methylene Chloride	5.277	84	3169	1.404	ug/l #	78
25) 2-Butanone	7.488	43	6278	4.131	ug/l	96
29) Tetrahydrofuran	7.841	42	373	0.367	ug/l #	66
31) Cyclohexane	8.218	56	3644	0.921	ug/l #	7
36) 1,1-Dichloropropene	8.224	75	13957	4.624	ug/l #	49
37) Ethyl Acetate	7.488	43	6278	1.976	ug/l #	68
38) Carbon Tetrachloride	8.224	117	17665	6.146	ug/l #	18
41) Methacrylonitrile	7.859	41	392	0.213	ug/l #	30
43) Isopropyl Acetate	8.688	43	39213	5.103	ug/l #	77
45) 1,2-Dichloropropane	9.729	63	925	0.391	ug/l #	43
48) Methyl methacrylate	9.735	41	68429	24.524	ug/l #	43
51) 4-Methyl-2-Pentanone	10.435	43	5128	1.576	ug/l	92
54) cis-1,3-Dichloropropene	10.353	75	34082	8.534	ug/l #	60
57) 1,3-Dichloropropane	11.194	76	3290	0.854	ug/l #	43
59) 2-Hexanone	11.200	43	57300	23.743	ug/l #	42
71) Bromoform	12.847	173	885	0.515	ug/l #	1
74) N-amyl acetate	12.453	43	3845	0.679	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	78893	24.055	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	78893	57.771	ug/l #	10

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

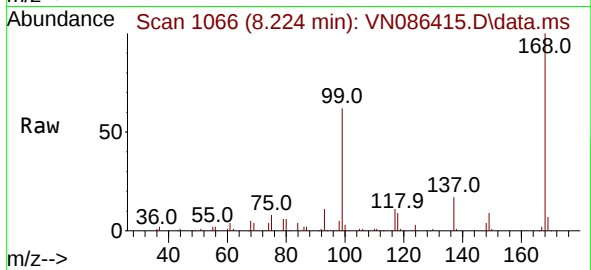
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration



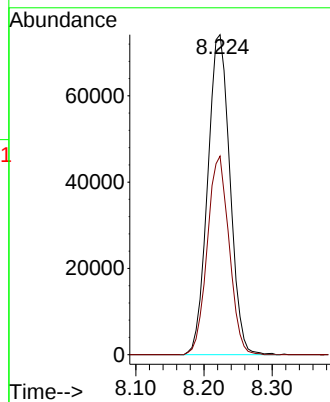
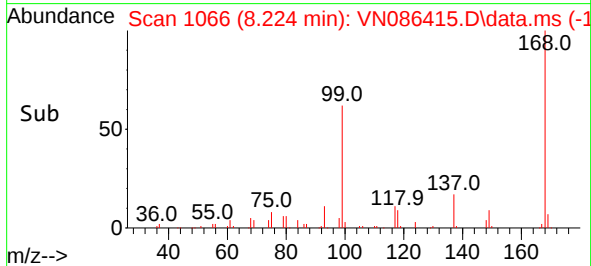


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN086415.D
Acq: 28 Apr 2025 16:45

Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#12

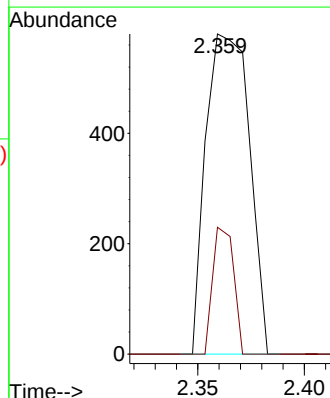
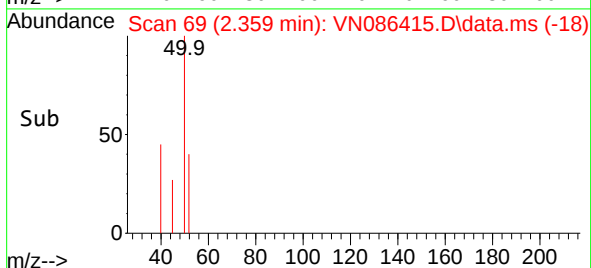
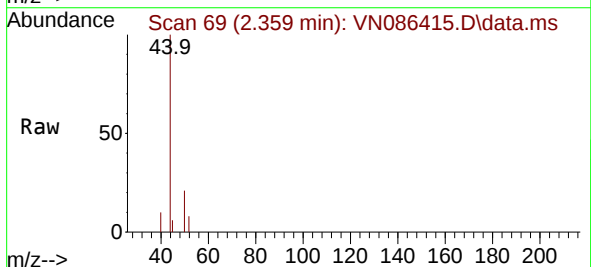


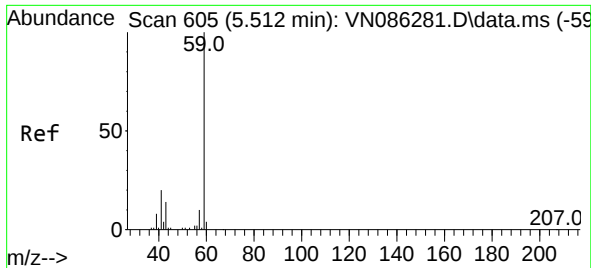
Tgt Ion:168 Resp: 168373
Ion Ratio Lower Upper
168 100
99 62.0 52.5 78.7



#3
Chloromethane
Concen: 0.284 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086415.D
Acq: 28 Apr 2025 16:45

Tgt Ion: 50 Resp: 825
Ion Ratio Lower Upper
50 100
52 39.7 26.5 39.7

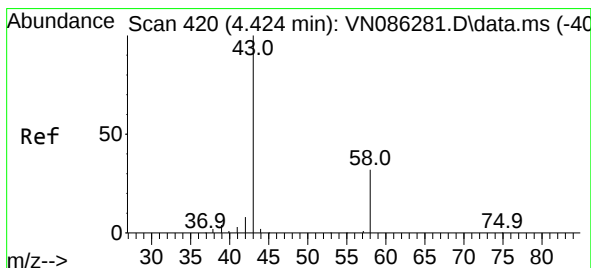
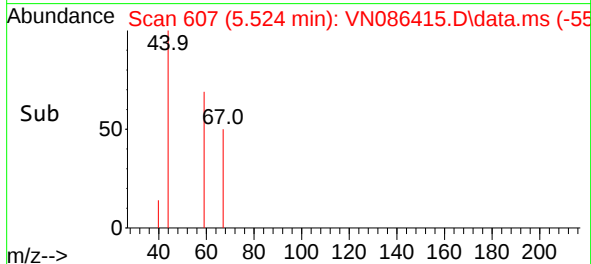
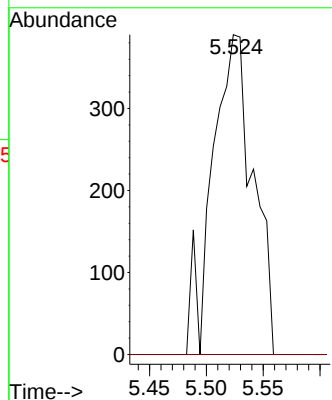
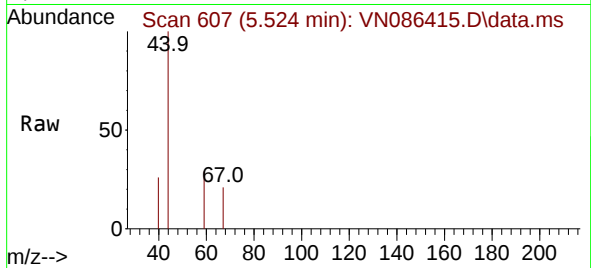




#11
Tert butyl alcohol
Concen: 2.191 ug/l
RT: 5.524 min Scan# 605
Delta R.T. 0.012 min
Lab File: VN086415.D
Acq: 28 Apr 2025 16:45

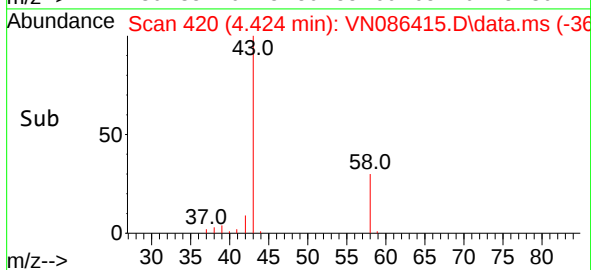
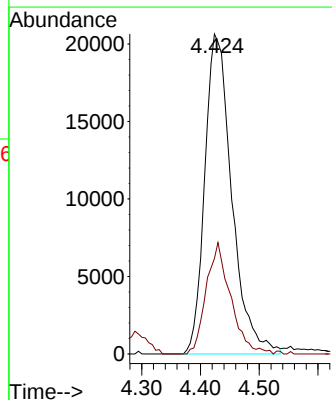
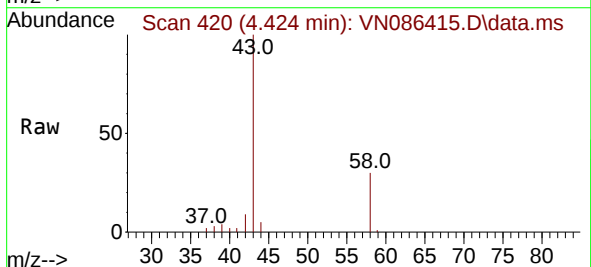
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#12

Tgt Ion: 59 Resp: 976
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#16
Acetone
Concen: 74.059 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.000 min
Lab File: VN086415.D
Acq: 28 Apr 2025 16:45

Tgt Ion: 43 Resp: 65907
Ion Ratio Lower Upper
43 100
58 29.8 25.3 37.9

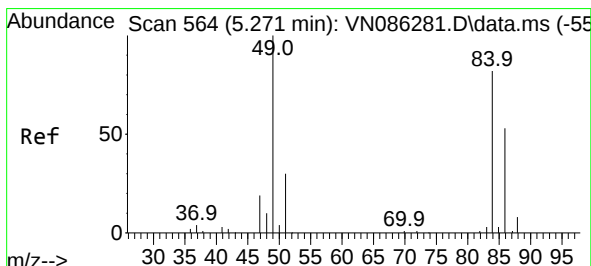
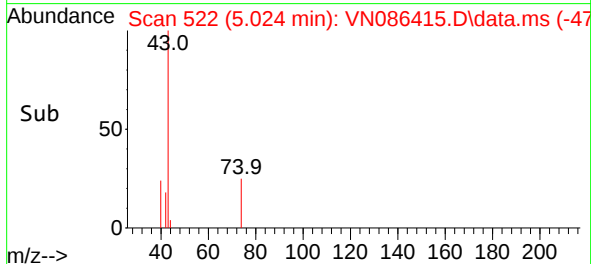
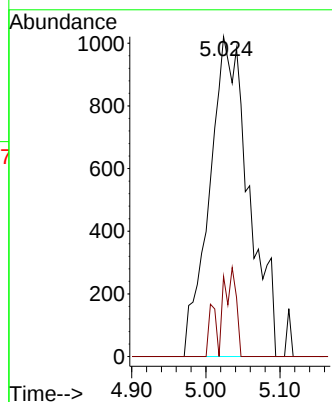
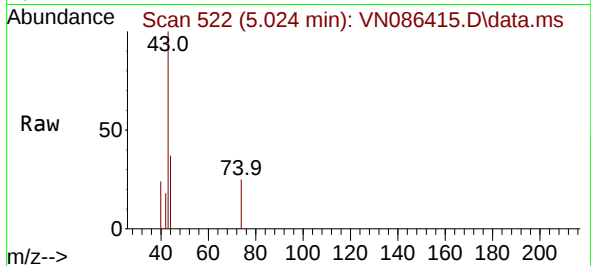




#18
Methyl Acetate
Concen: 1.283 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086415.D
Acq: 28 Apr 2025 16:45

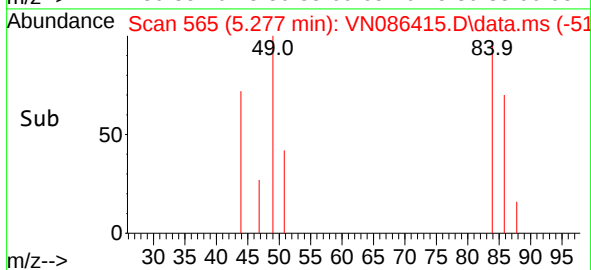
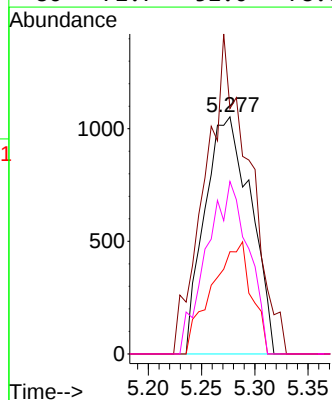
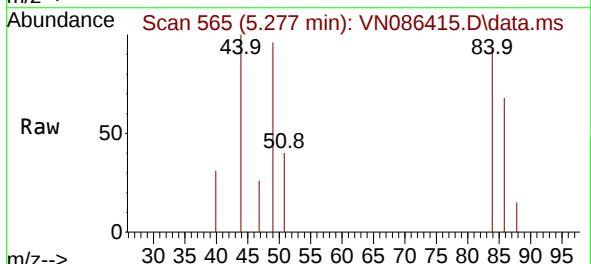
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#12

Tgt Ion: 43 Resp: 3760
Ion Ratio Lower Upper
43 100
74 8.4 19.8 29.6#



#20
Methylene Chloride
Concen: 1.404 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN086415.D
Acq: 28 Apr 2025 16:45

Tgt Ion: 84 Resp: 3169
Ion Ratio Lower Upper
84 100
49 85.8 98.2 147.2#
51 43.1 29.8 44.6
86 72.7 52.0 78.0

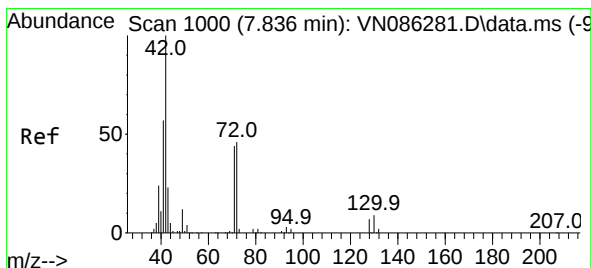
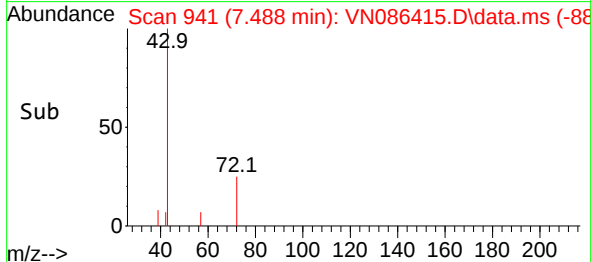
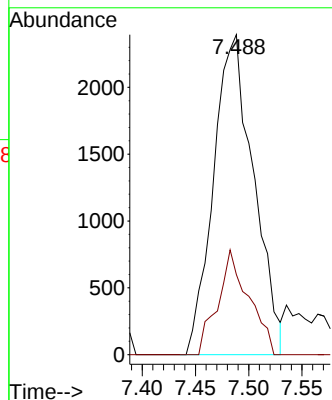
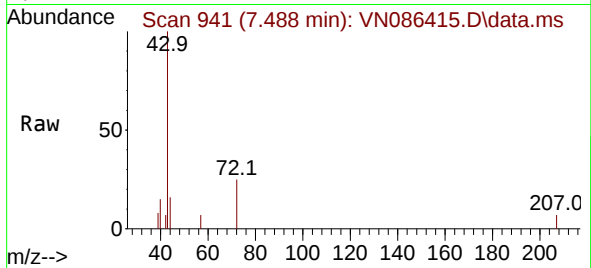




#25
2-Butanone
Concen: 4.131 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN086415.D
Acq: 28 Apr 2025 16:45

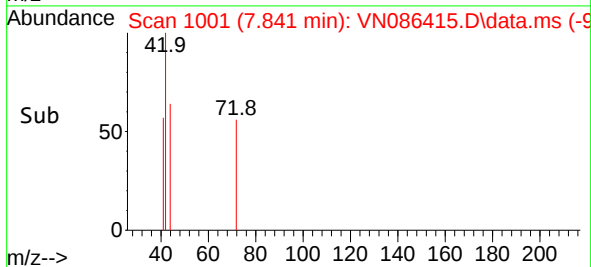
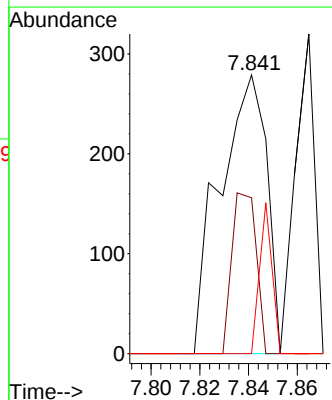
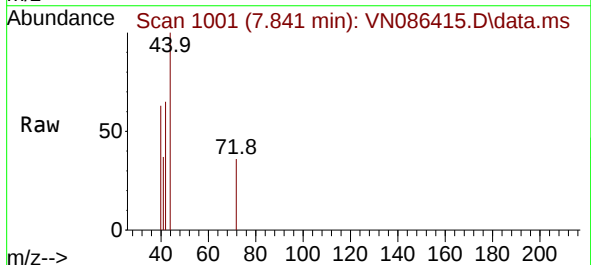
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#12

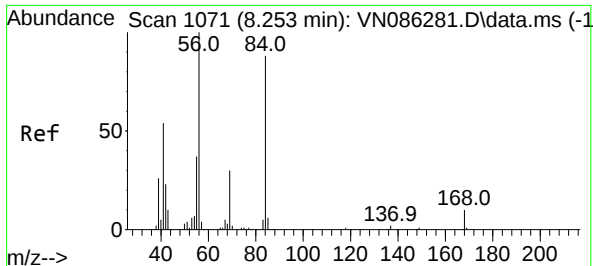
Tgt Ion: 43 Resp: 6278
Ion Ratio Lower Upper
43 100
72 25.1 21.7 32.5



#29
Tetrahydrofuran
Concen: 0.367 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VN086415.D
Acq: 28 Apr 2025 16:45

Tgt Ion: 42 Resp: 373
Ion Ratio Lower Upper
42 100
72 30.0 36.2 54.4#
71 14.2 34.0 51.0#

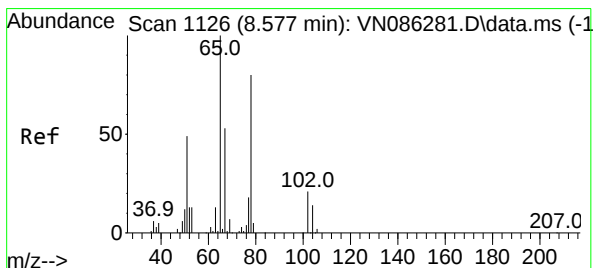
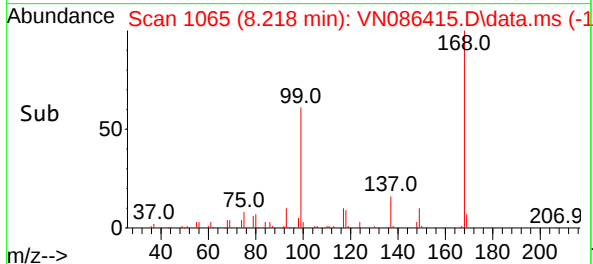
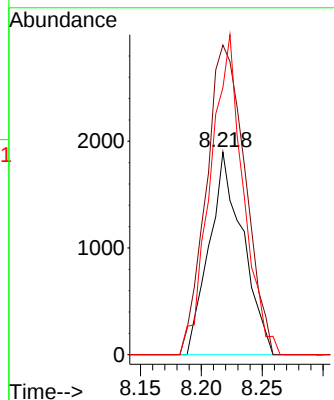
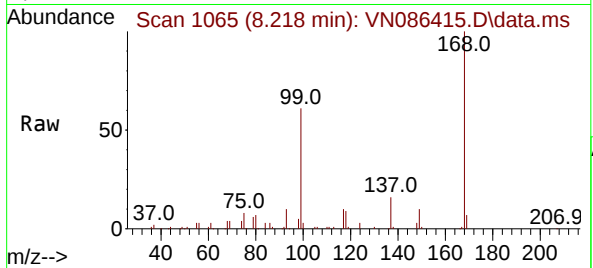




#31
Cyclohexane
Concen: 0.921 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN086415.D
Acq: 28 Apr 2025 16:45

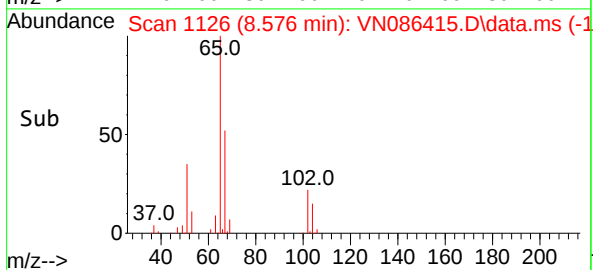
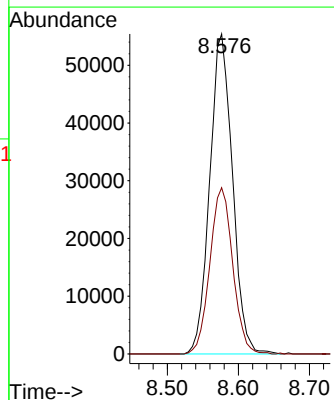
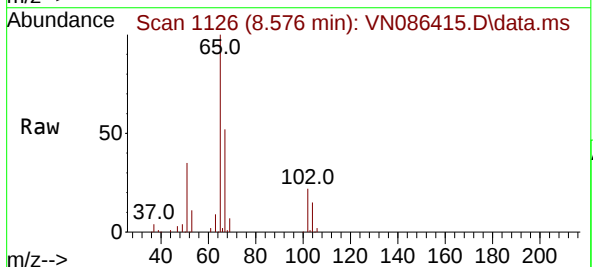
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#12

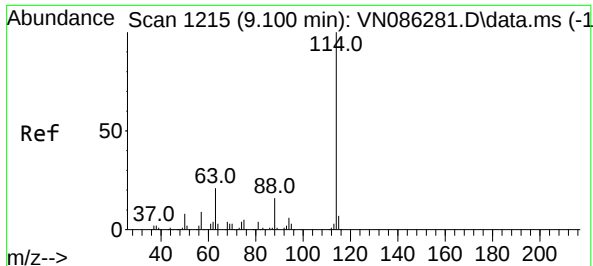
Tgt Ion: 56 Resp: 3644
Ion Ratio Lower Upper
56 100
69 152.8 24.2 36.2#
84 131.9 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 50.451 ug/l
RT: 8.576 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086415.D
Acq: 28 Apr 2025 16:45

Tgt Ion: 65 Resp: 123180
Ion Ratio Lower Upper
65 100
67 52.2 0.0 106.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086415.D

Acq: 28 Apr 2025 16:45

Instrument :

MSVOA_N

ClientSampleId :

PB167744ZHE#12

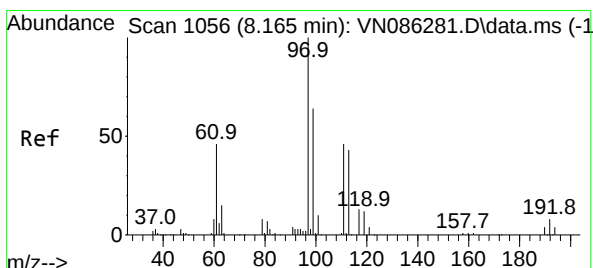
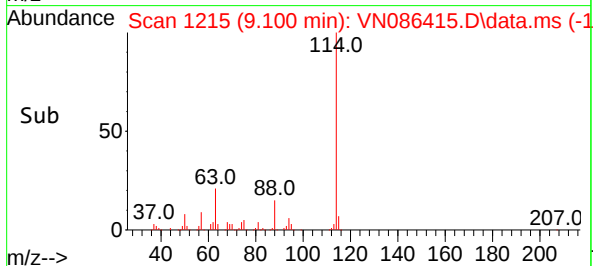
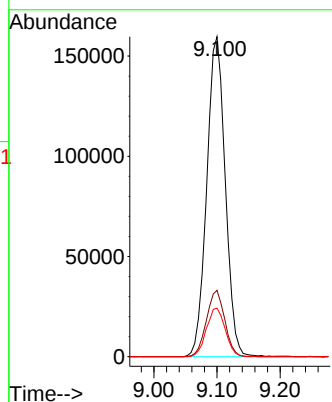
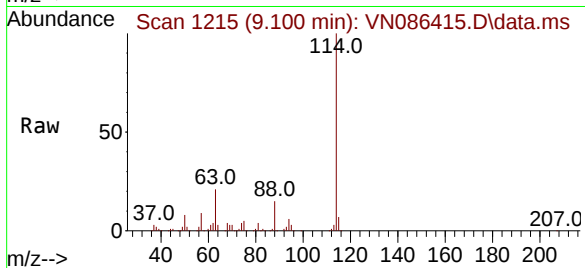
Tgt Ion:114 Resp: 325577

Ion Ratio Lower Upper

114 100

63 20.8 0.0 42.6

88 15.1 0.0 31.8



#35

Dibromofluoromethane

Concen: 53.639 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086415.D

Acq: 28 Apr 2025 16:45

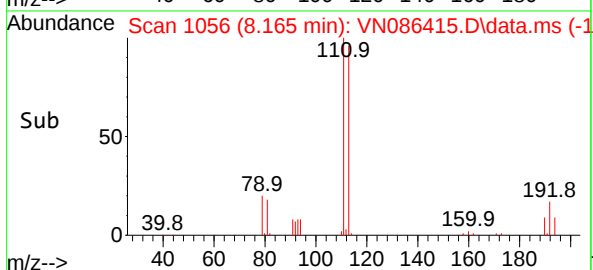
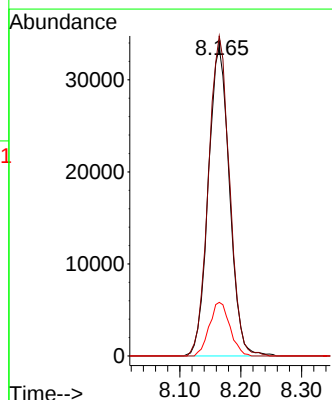
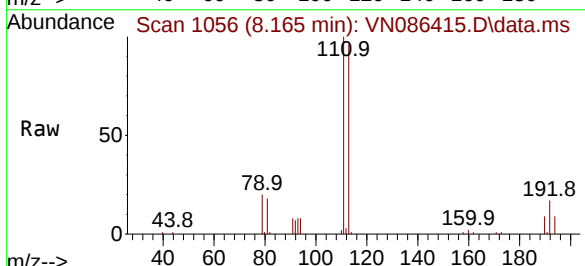
Tgt Ion:113 Resp: 81051

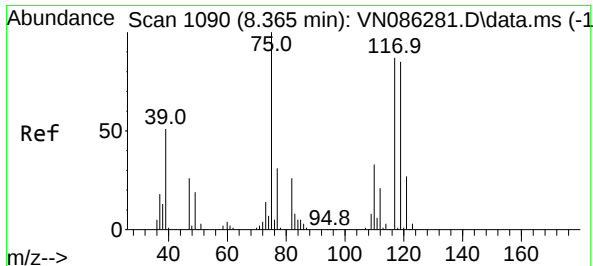
Ion Ratio Lower Upper

113 100

111 103.0 83.4 125.0

192 16.8 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.624 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086415.D

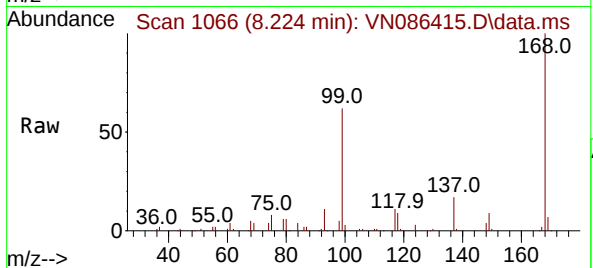
Acq: 28 Apr 2025 16:45

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PB167744ZHE#12



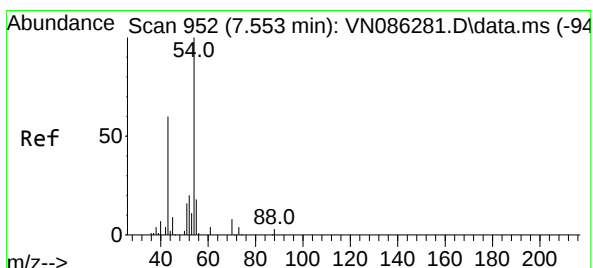
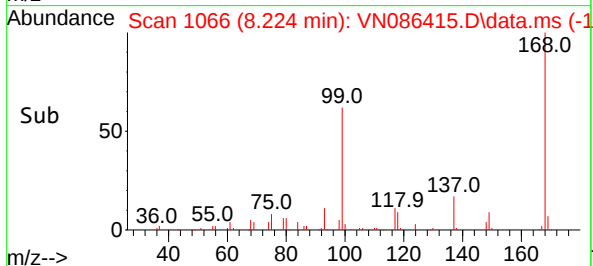
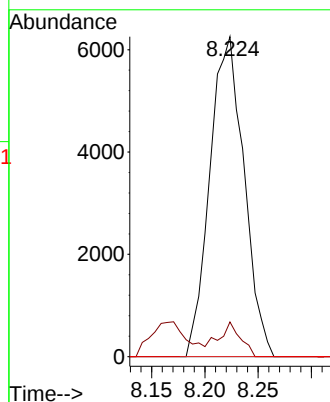
Tgt Ion: 75 Resp: 13957

Ion Ratio Lower Upper

75 100

110 7.0 16.8 50.4#

77 0.0 24.9 37.3#



#37

Ethyl Acetate

Concen: 1.976 ug/l

RT: 7.488 min Scan# 941

Delta R.T. -0.065 min

Lab File: VN086415.D

Acq: 28 Apr 2025 16:45

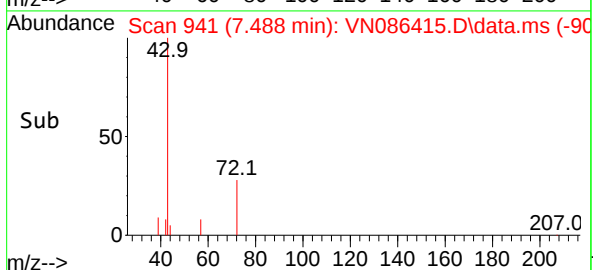
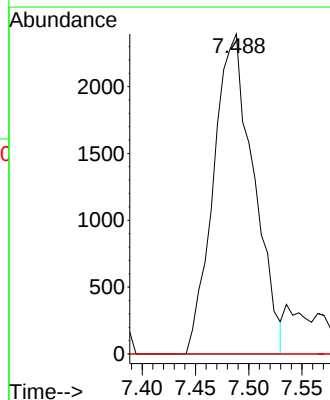
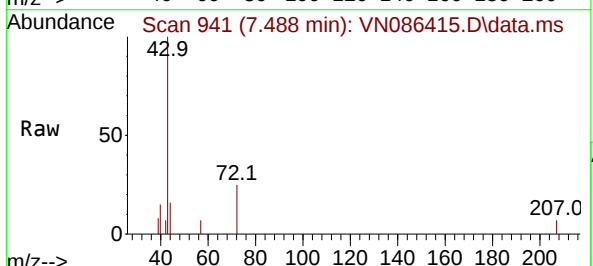
Tgt Ion: 43 Resp: 6278

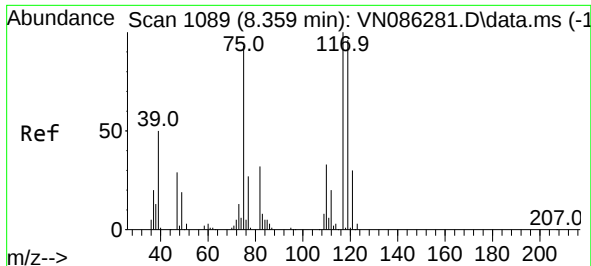
Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

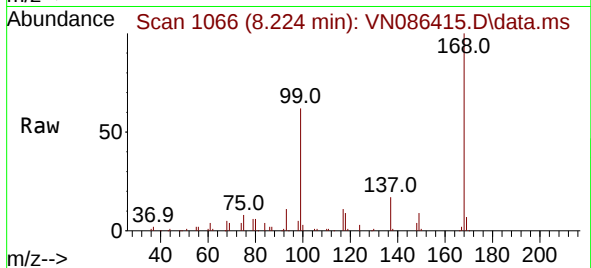
70 0.0 9.2 13.8#



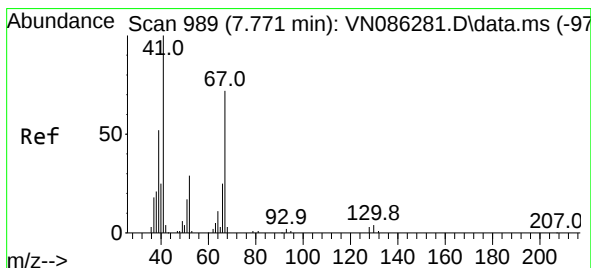
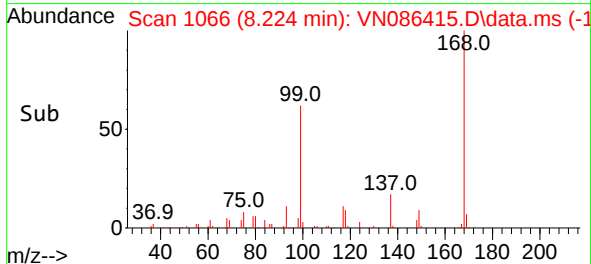
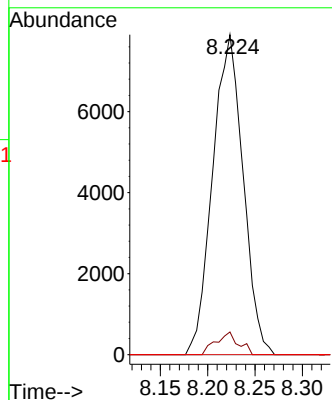


#38
Carbon Tetrachloride
Concen: 6.146 ug/l
RT: 8.224 min Scan# 1004
Delta R.T. -0.135 min
Lab File: VN086415.D
Acq: 28 Apr 2025 16:45

Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#12

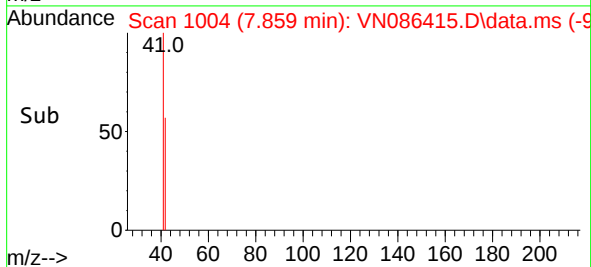
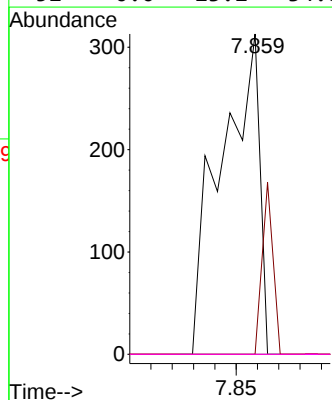
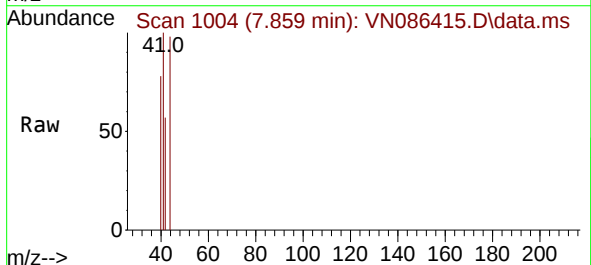


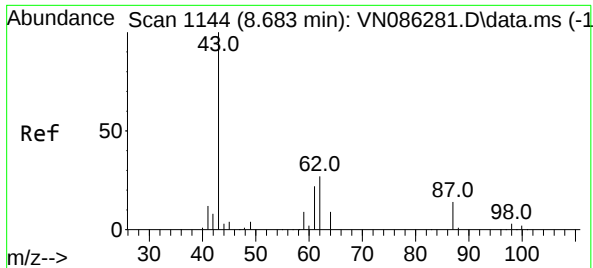
Tgt Ion: 117 Resp: 17665
Ion Ratio Lower Upper
117 100
119 7.1 76.8 115.2#
121 0.0 23.8 35.8#



#41
Methacrylonitrile
Concen: 0.213 ug/l
RT: 7.859 min Scan# 1004
Delta R.T. 0.088 min
Lab File: VN086415.D
Acq: 28 Apr 2025 16:45

Tgt Ion: 41 Resp: 392
Ion Ratio Lower Upper
41 100
39 15.1 43.0 64.4#
67 0.0 58.8 88.2#
52 0.0 23.2 34.8#

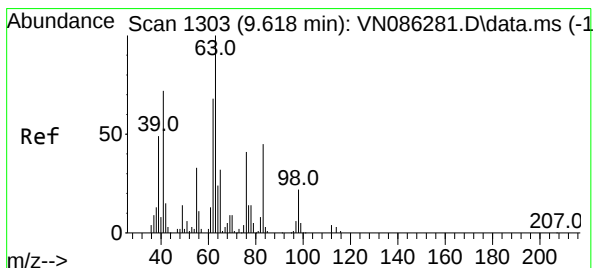
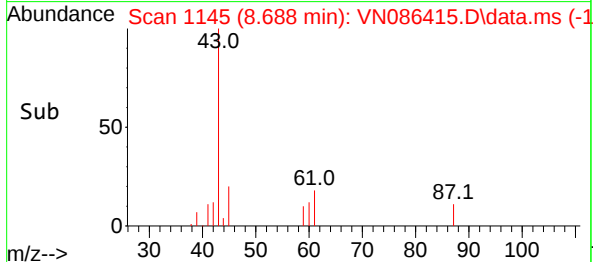
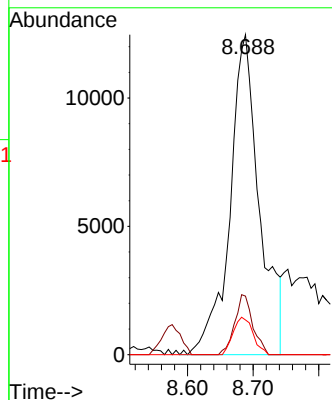
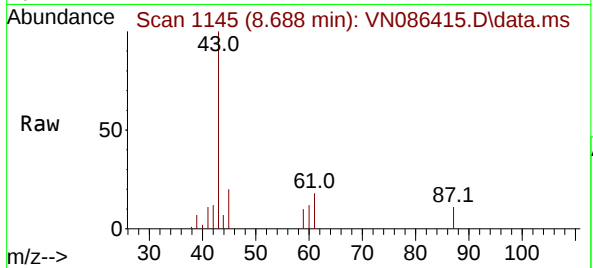




#43
Isopropyl Acetate
Concen: 5.103 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.005 min
Lab File: VN086415.D
Acq: 28 Apr 2025 16:45

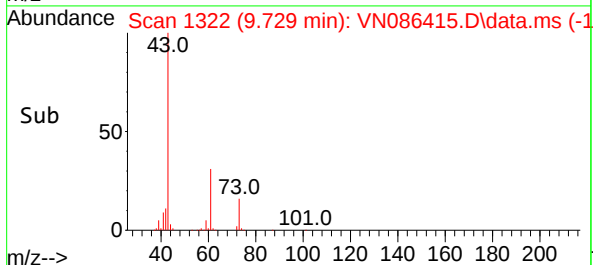
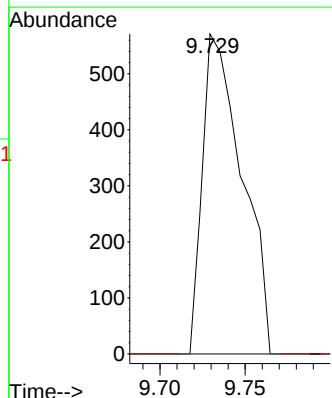
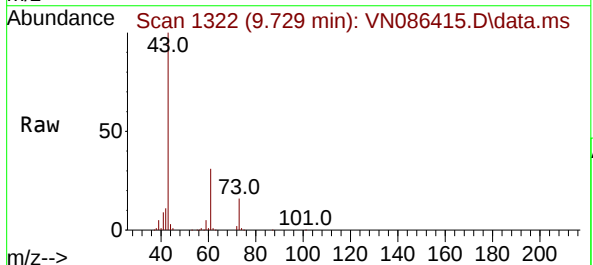
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#12

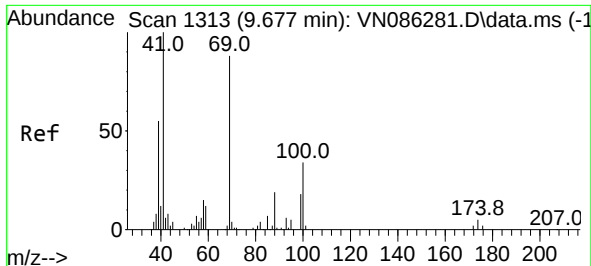
Tgt Ion: 43 Resp: 39213
Ion Ratio Lower Upper
43 100
61 11.5 20.5 30.7#
87 7.8 10.5 15.7#



#45
1,2-Dichloropropane
Concen: 0.391 ug/l
RT: 9.729 min Scan# 1322
Delta R.T. 0.112 min
Lab File: VN086415.D
Acq: 28 Apr 2025 16:45

Tgt Ion: 63 Resp: 925
Ion Ratio Lower Upper
63 100
65 0.0 25.4 38.2#

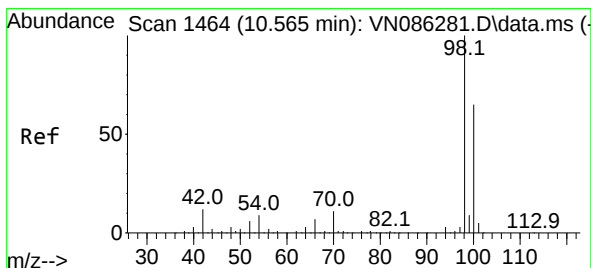
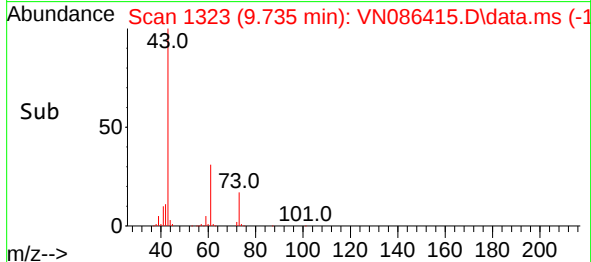
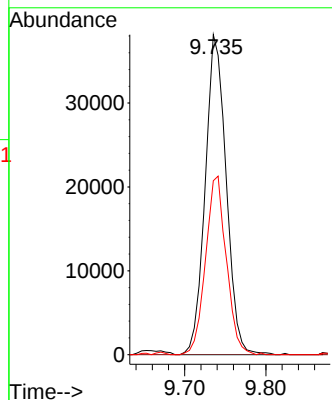
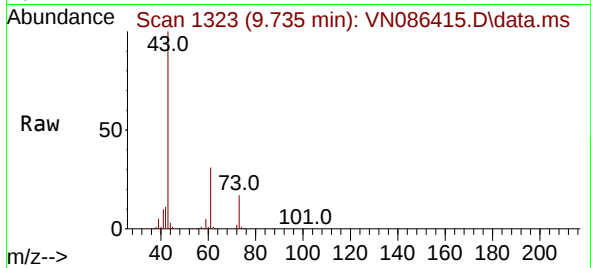




#48
Methyl methacrylate
Concen: 24.524 ug/l
RT: 9.735 min Scan# 11
Delta R.T. 0.059 min
Lab File: VN086415.D
Acq: 28 Apr 2025 16:45

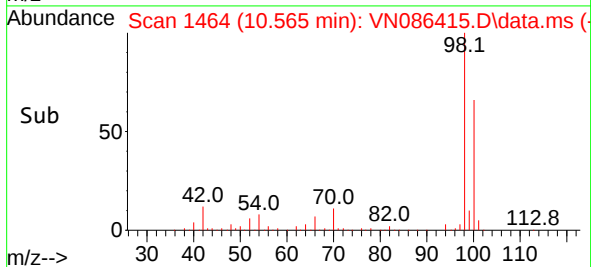
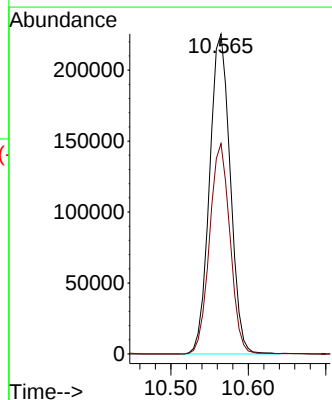
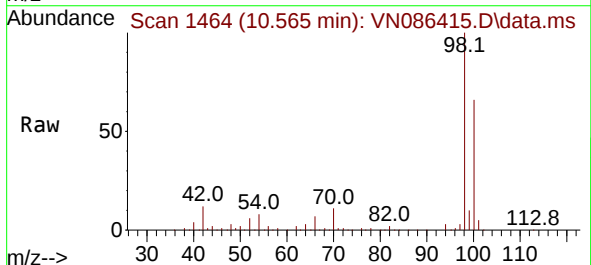
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#12

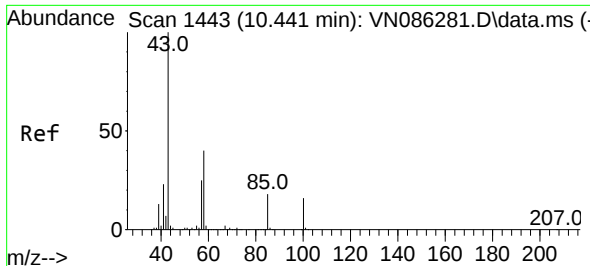
Tgt Ion: 41 Resp: 68429
Ion Ratio Lower Upper
41 100
69 0.0 68.2 102.2#
39 55.3 45.2 67.8



#50
Toluene-d8
Concen: 51.790 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086415.D
Acq: 28 Apr 2025 16:45

Tgt Ion: 98 Resp: 418241
Ion Ratio Lower Upper
98 100
100 64.9 52.5 78.7

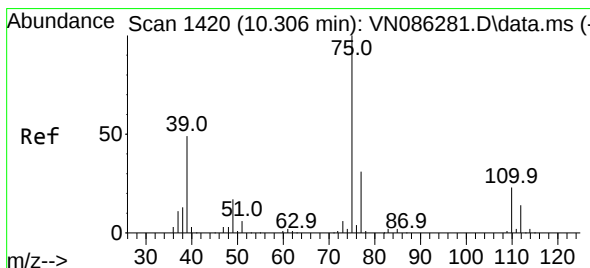
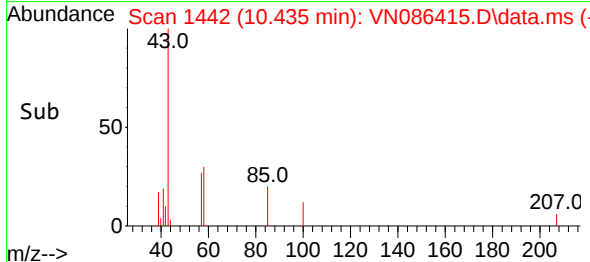
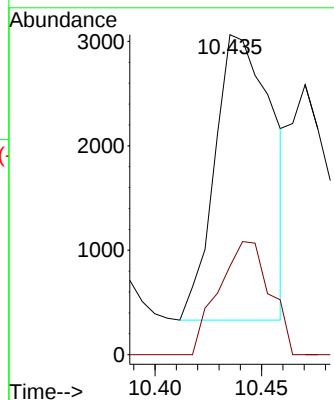
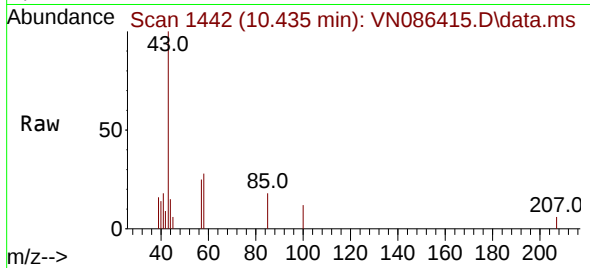




#51
4-Methyl-2-Pentanone
Concen: 1.576 ug/l
RT: 10.435 min Scan# 1443
Delta R.T. -0.006 min
Lab File: VN086415.D
Acq: 28 Apr 2025 16:45

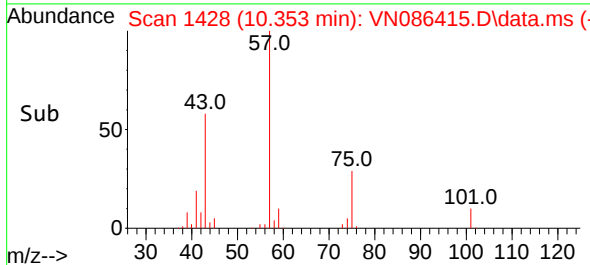
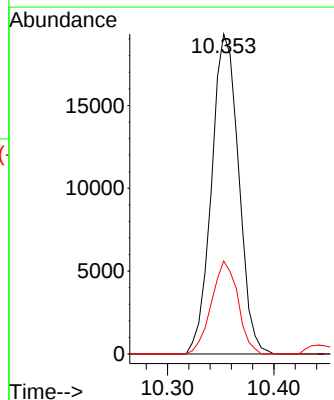
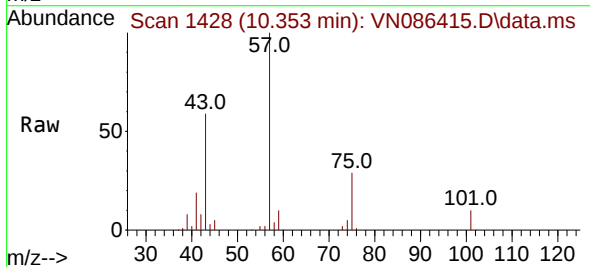
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#12

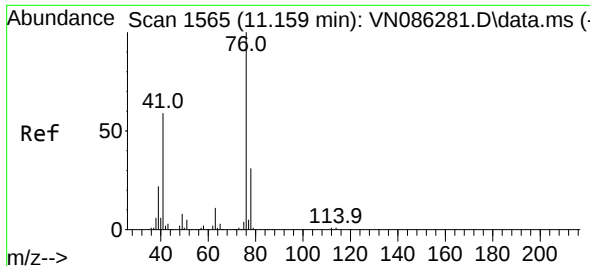
Tgt Ion: 43 Resp: 5128
Ion Ratio Lower Upper
43 100
58 35.4 32.2 48.4



#54
cis-1,3-Dichloropropene
Concen: 8.534 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN086415.D
Acq: 28 Apr 2025 16:45

Tgt Ion: 75 Resp: 34082
Ion Ratio Lower Upper
75 100
77 0.0 25.2 37.8#
39 29.0 39.3 58.9#





#57

1,3-Dichloropropane

Concen: 0.854 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.035 min

Lab File: VN086415.D

Acq: 28 Apr 2025 16:45

Instrument :

MSVOA_N

ClientSampleId :

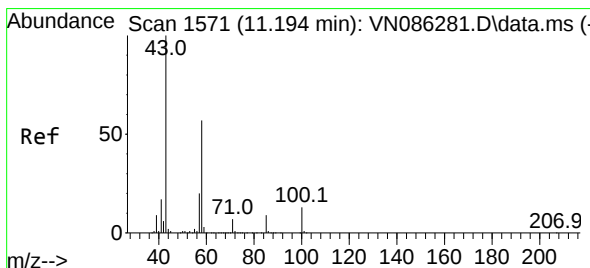
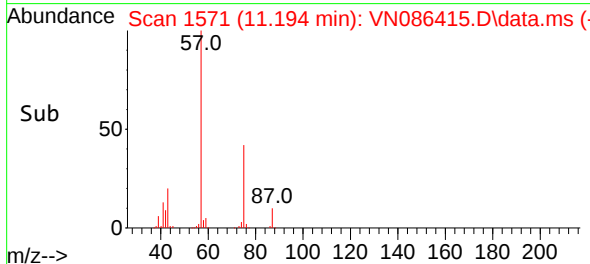
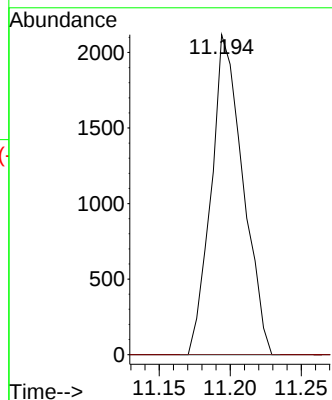
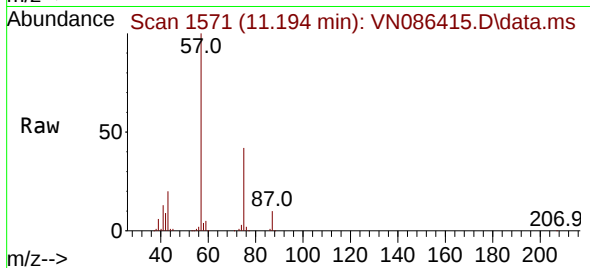
PB167744ZHE#12

Tgt Ion: 76 Resp: 3290

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 23.743 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086415.D

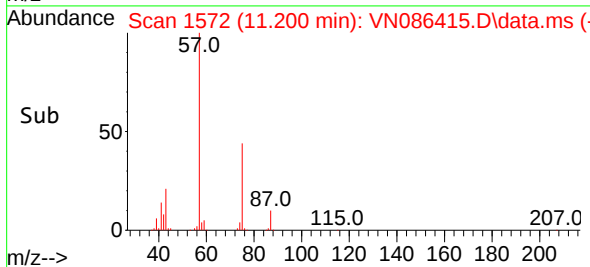
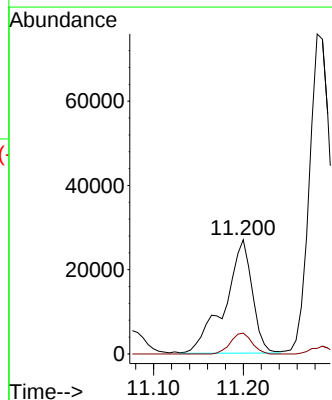
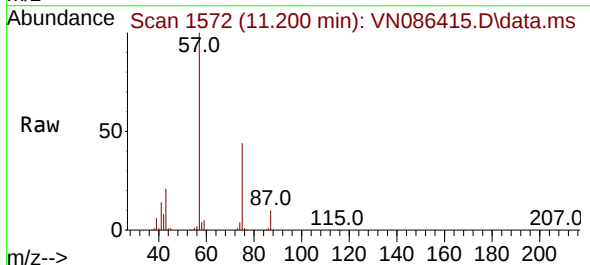
Acq: 28 Apr 2025 16:45

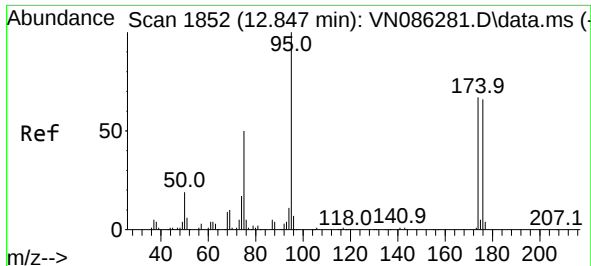
Tgt Ion: 43 Resp: 57300

Ion Ratio Lower Upper

43 100

58 14.3 28.3 85.0#

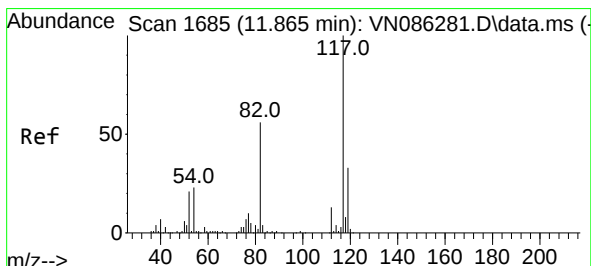
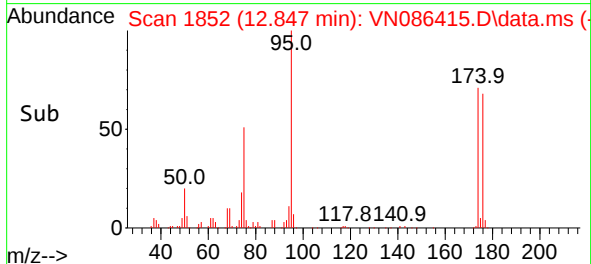
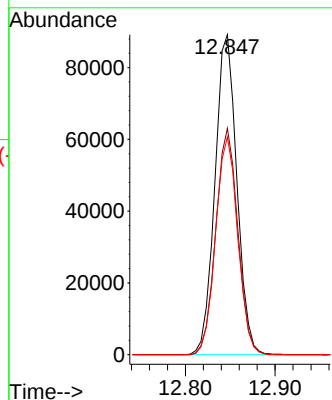
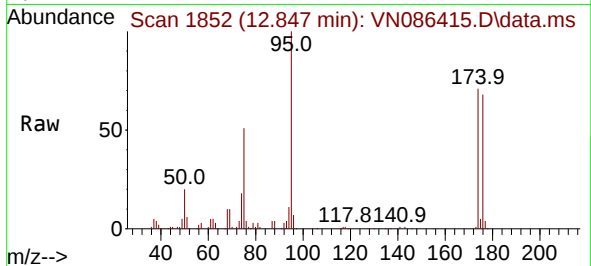




#62
4-Bromofluorobenzene
Concen: 51.278 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086415.D
Acq: 28 Apr 2025 16:45

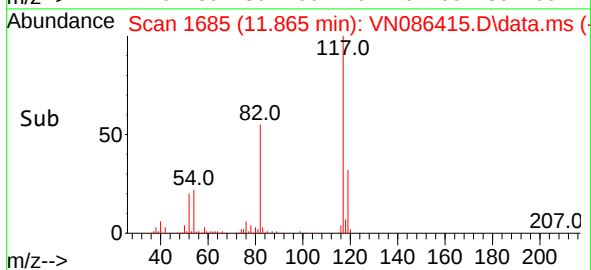
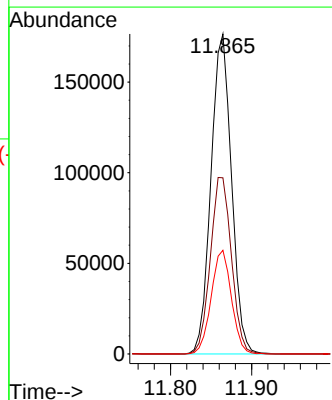
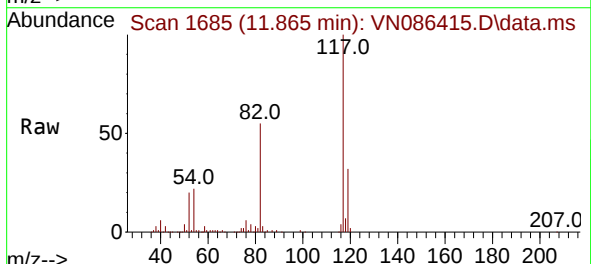
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#12

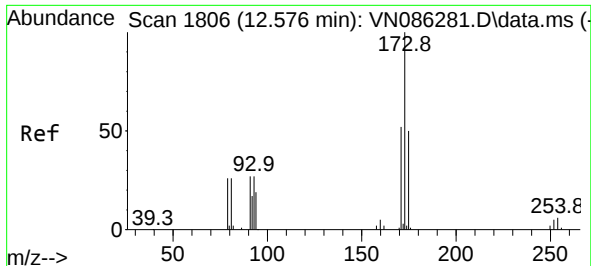
Tgt Ion: 95 Resp: 151042
Ion Ratio Lower Upper
95 100
174 70.9 0.0 133.4
176 68.9 0.0 129.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086415.D
Acq: 28 Apr 2025 16:45

Tgt Ion: 117 Resp: 309788
Ion Ratio Lower Upper
117 100
82 55.1 44.7 67.1
119 32.4 26.4 39.6

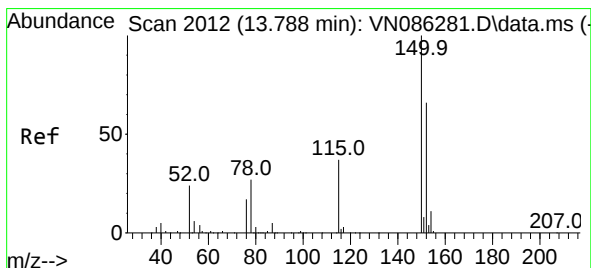
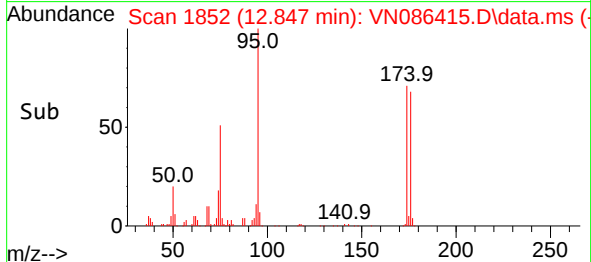
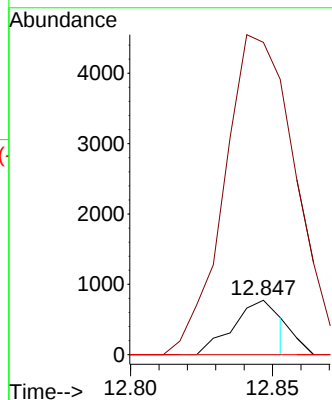
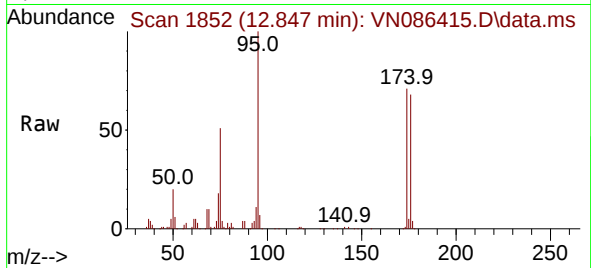




#71
Bromoform
Concen: 0.515 ug/l
RT: 12.847 min Scan# 1806
Delta R.T. 0.270 min
Lab File: VN086415.D
Acq: 28 Apr 2025 16:45

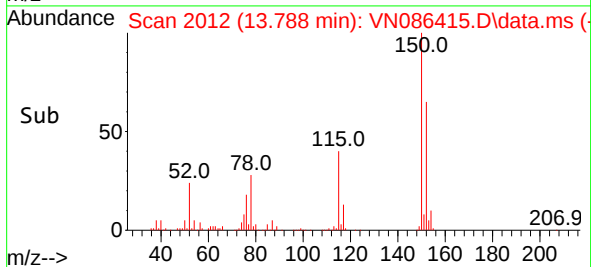
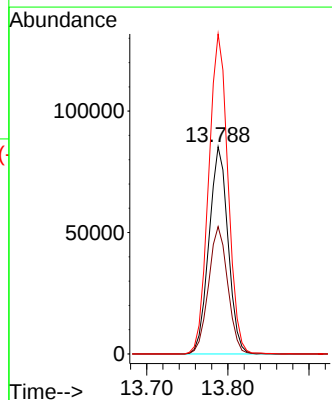
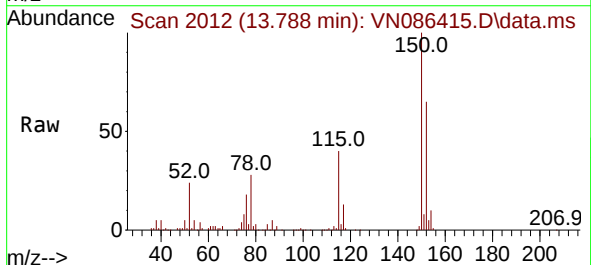
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#12

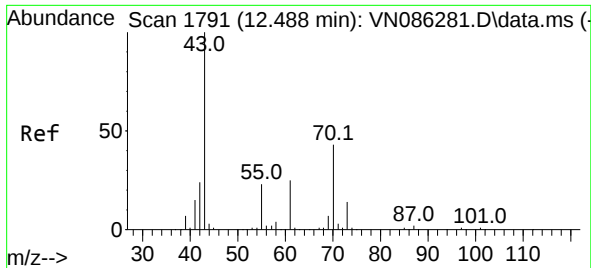
Tgt Ion:173 Resp: 885
Ion Ratio Lower Upper
173 100
175 724.4 24.6 73.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086415.D
Acq: 28 Apr 2025 16:45

Tgt Ion:152 Resp: 138979
Ion Ratio Lower Upper
152 100
115 61.9 31.9 95.9
150 156.5 0.0 352.0

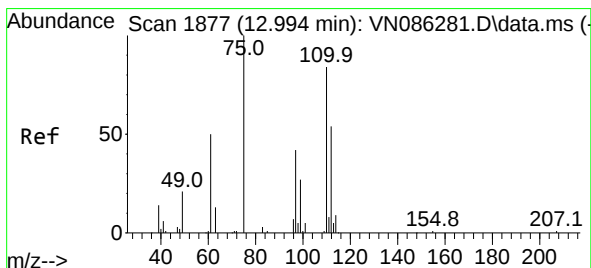
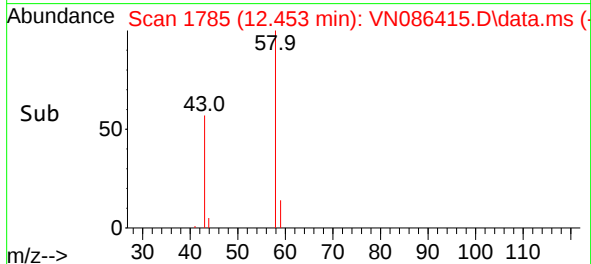
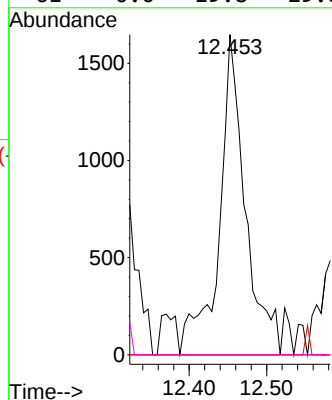
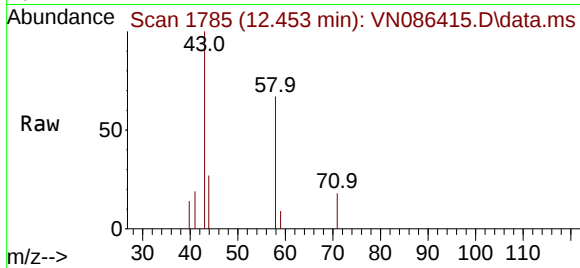




#74
N-amy1 acetate
Concen: 0.679 ug/l
RT: 12.453 min Scan# 11
Delta R.T. -0.035 min
Lab File: VN086415.D
Acq: 28 Apr 2025 16:45

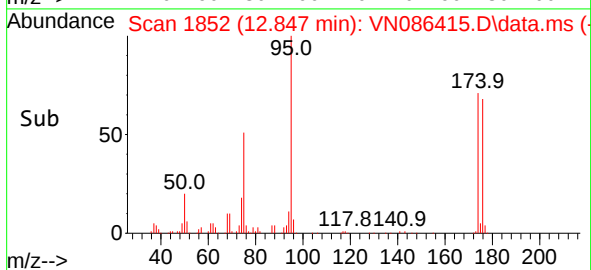
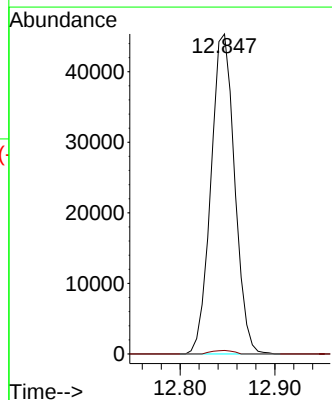
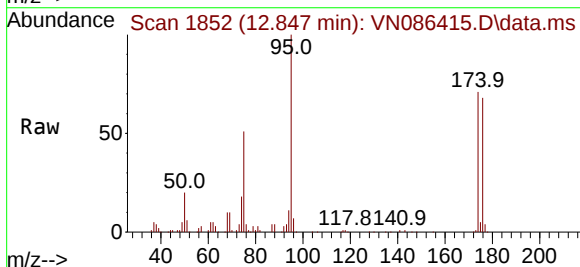
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#12

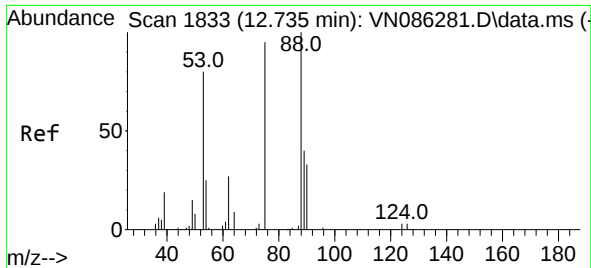
Tgt Ion: 43	Resp: 3845
Ion Ratio	Lower Upper
43 100	
70 0.0	35.0 52.4#
55 0.0	19.0 28.4#
61 0.0	19.8 29.8#



#76
1,2,3-Trichloropropane
Concen: 24.055 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086415.D
Acq: 28 Apr 2025 16:45

Tgt Ion: 75	Resp: 78893
Ion Ratio	Lower Upper
75 100	
77 1.0	98.8 296.4#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 57.771 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086415.D
 Acq: 28 Apr 2025 16:45

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167744ZHE#12

Tgt Ion: 75 Resp: 78893
 Ion Ratio Lower Upper
 75 100
 53 0.0 79.2 118.8#
 89 0.0 35.7 53.5#

