

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051525\
 Data File : VN086646.D
 Acq On : 15 May 2025 15:36
 Operator : JC\MD
 Sample : PB167995ZHE#08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167995ZHE#08

Quant Time: May 16 05:28:57 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)

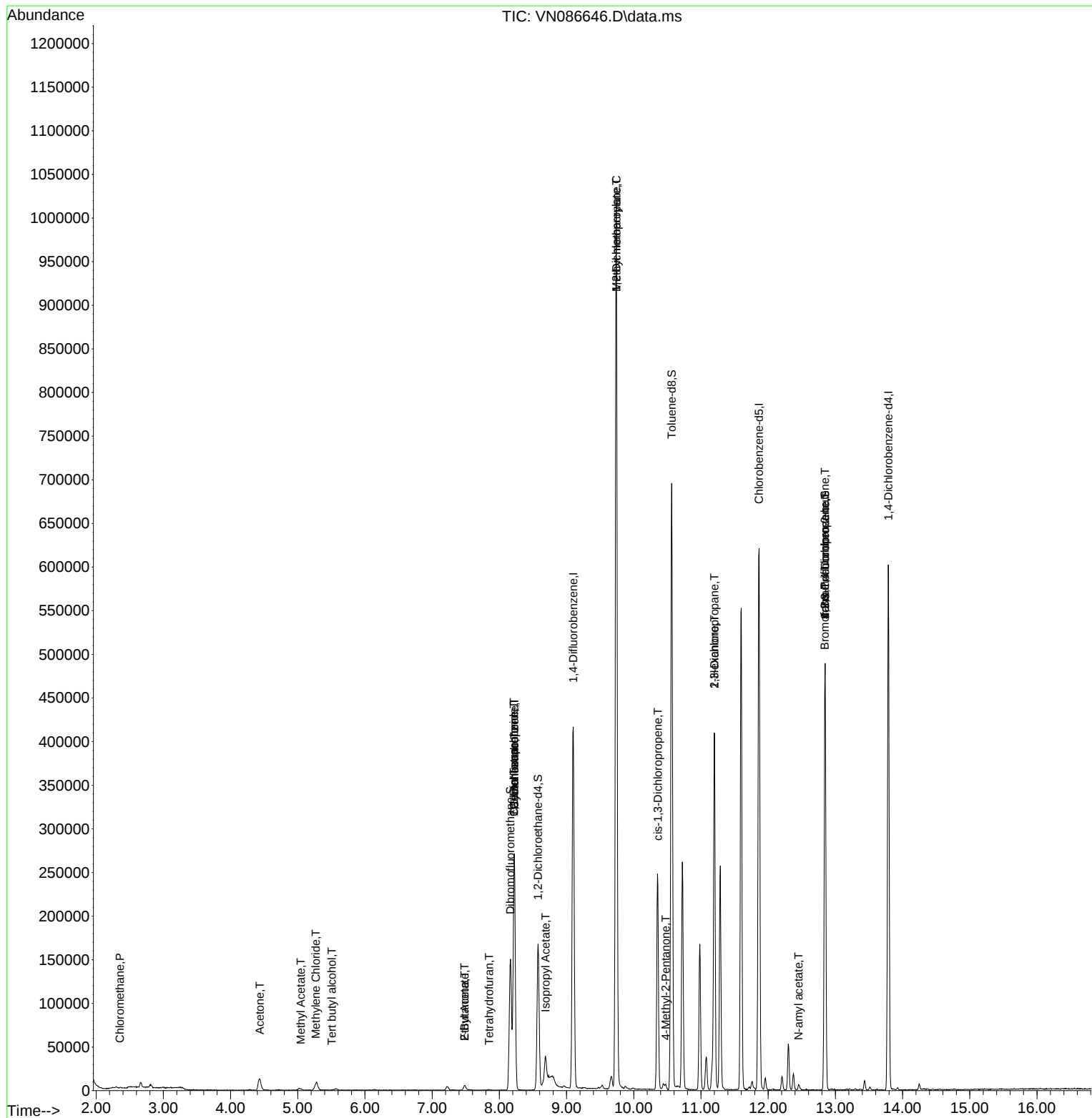
Internal Standards						
1) Pentafluorobenzene	8.224	168	205135	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	384057	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	383008	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	165181	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	138205	46.461	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	92.920%		
35) Dibromofluoromethane	8.165	113	113252	63.537	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	127.080%#		
50) Toluene-d8	10.565	98	495033	51.965	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	103.920%		
62) 4-Bromofluorobenzene	12.847	95	184855	53.201	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	106.400%		
Target Compounds					Qvalue	
3) Chloromethane	2.353	50	777	0.220	ug/l #	42
11) Tert butyl alcohol	5.506	59	1150	2.119	ug/l #	72
16) Acetone	4.436	43	26282	20.312	ug/l	95
18) Methyl Acetate	5.047	43	4542	1.272	ug/l #	51
20) Methylene Chloride	5.271	84	7813	2.841	ug/l #	72
25) 2-Butanone	7.483	43	9665	5.220	ug/l	100
29) Tetrahydrofuran	7.847	42	675	0.545	ug/l #	46
31) Cyclohexane	8.224	56	4041	0.838	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	16139	4.533	ug/l #	49
37) Ethyl Acetate	7.483	43	9665	2.579	ug/l #	68
38) Carbon Tetrachloride	8.218	117	20148	5.943	ug/l #	15
43) Isopropyl Acetate	8.688	43	53643	6.221	ug/l #	77
45) 1,2-Dichloropropane	9.741	63	1331	0.477	ug/l #	43
48) Methyl methacrylate	9.741	41	89411	27.164	ug/l #	41
51) 4-Methyl-2-Pentanone	10.476	43	4153	1.082	ug/l #	35
54) cis-1,3-Dichloropropene	10.359	75	48858	10.371	ug/l #	54
57) 1,3-Dichloropropane	11.200	76	4261	0.938	ug/l #	43
59) 2-Hexanone	11.200	43	79151	27.803	ug/l #	46
71) Bromoform	12.841	173	649	0.306	ug/l #	1
74) N-amyl acetate	12.453	43	5124	0.762	ug/l #	44
76) 1,2,3-Trichloropropane	12.847	75	89581	22.981	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	89581	55.192	ug/l #	10

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

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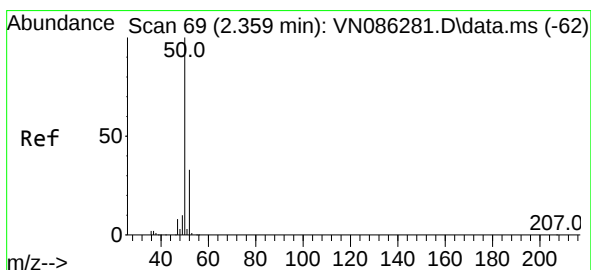
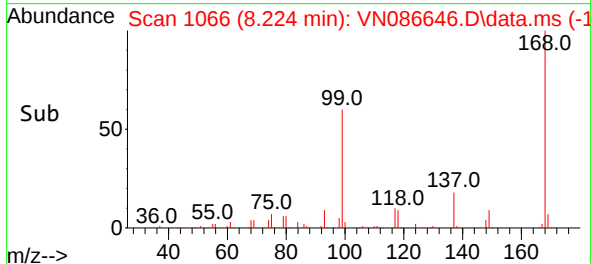
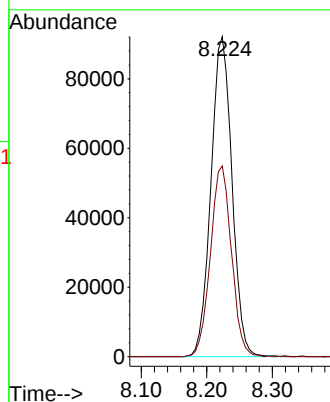
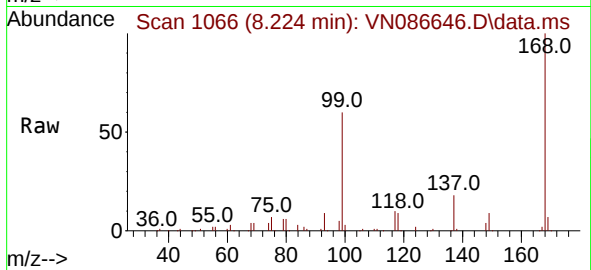




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN086646.D
Acq: 15 May 2025 15:36

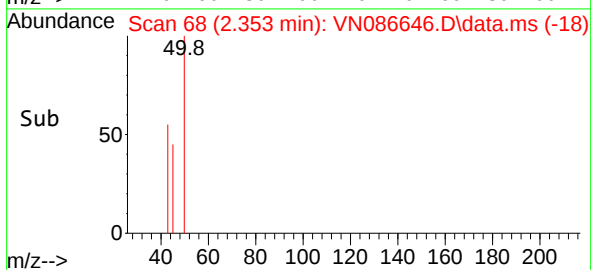
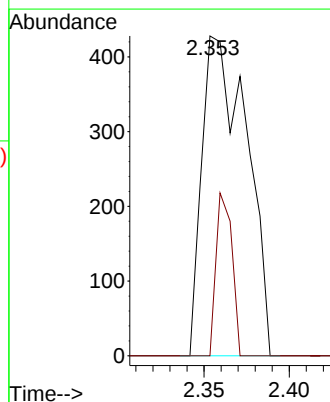
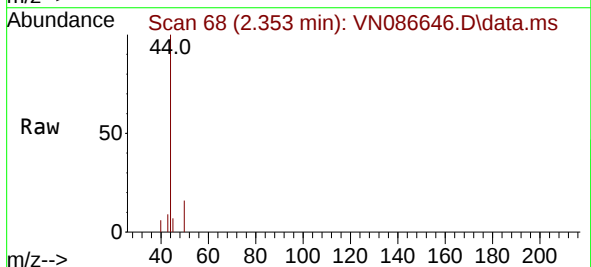
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#08

Tgt Ion:168 Resp: 205135
Ion Ratio Lower Upper
168 100
99 59.6 52.5 78.7



#3
Chloromethane
Concen: 0.220 ug/l
RT: 2.353 min Scan# 68
Delta R.T. -0.006 min
Lab File: VN086646.D
Acq: 15 May 2025 15:36

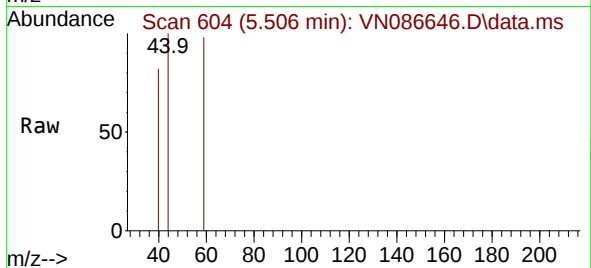
Tgt Ion: 50 Resp: 777
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#



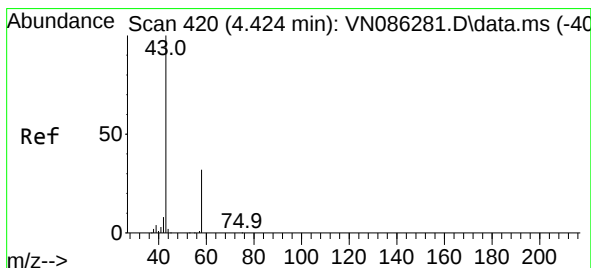
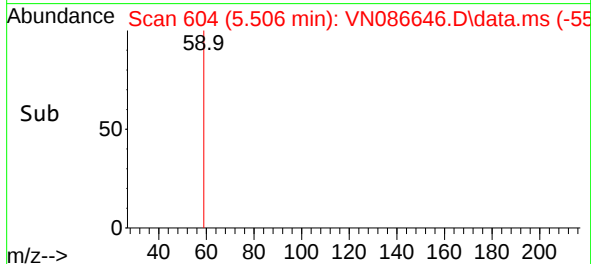
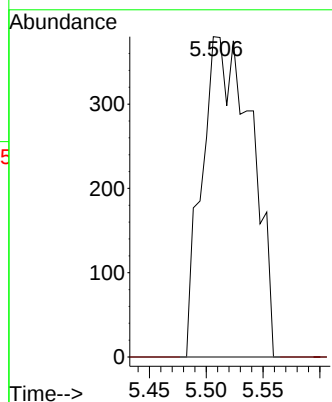


#11
Tert butyl alcohol
Concen: 2.119 ug/l
RT: 5.506 min Scan# 604
Delta R.T. -0.006 min
Lab File: VN086646.D
Acq: 15 May 2025 15:36

Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#08

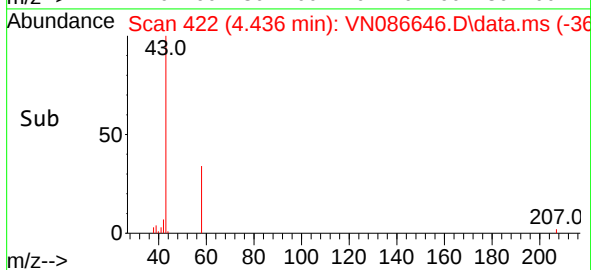
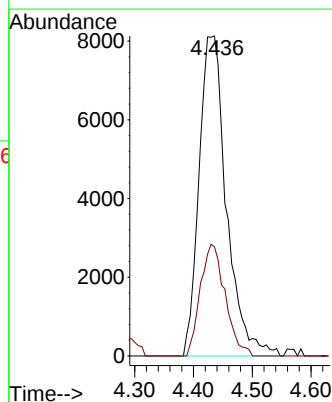
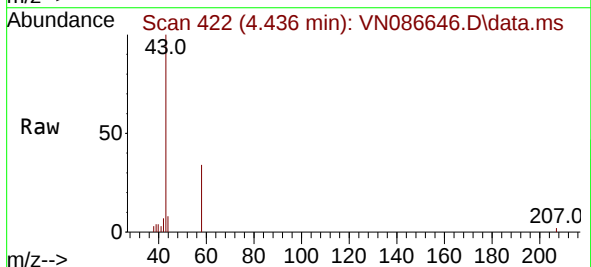


Tgt Ion: 59 Resp: 1150
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#16
Acetone
Concen: 20.312 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN086646.D
Acq: 15 May 2025 15:36

Tgt Ion: 43 Resp: 26282
Ion Ratio Lower Upper
43 100
58 34.2 25.3 37.9





#18

Methyl Acetate

Concen: 1.272 ug/l

RT: 5.047 min Scan# 51

Delta R.T. 0.029 min

Lab File: VN086646.D

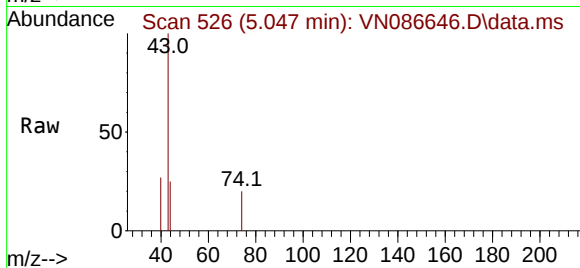
Acq: 15 May 2025 15:36

Instrument :

MSVOA_N

ClientSampleId :

PB167995ZHE#08

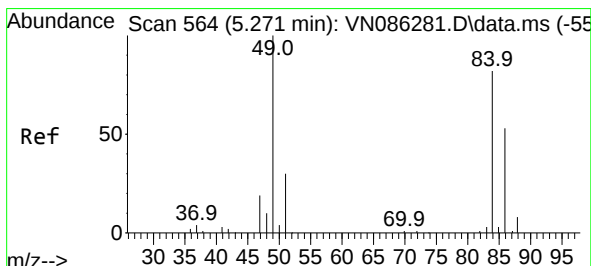
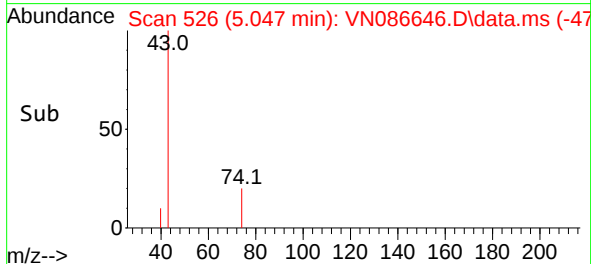
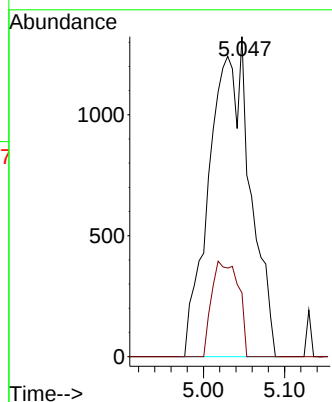


Tgt Ion: 43 Resp: 4542

Ion Ratio Lower Upper

43 100

74 0.0 19.8 29.6#



#20

Methylene Chloride

Concen: 2.841 ug/l

RT: 5.271 min Scan# 564

Delta R.T. -0.000 min

Lab File: VN086646.D

Acq: 15 May 2025 15:36

Tgt Ion: 84 Resp: 7813

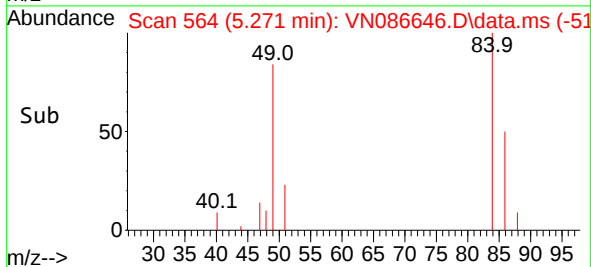
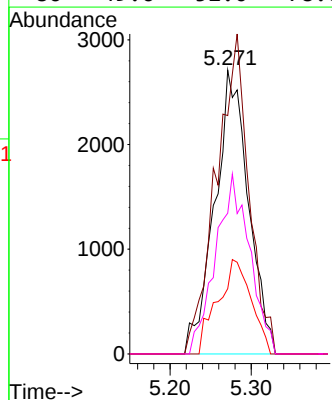
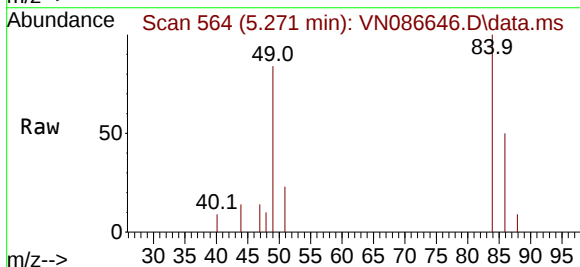
Ion Ratio Lower Upper

84 100

49 84.0 98.2 147.2#

51 23.0 29.8 44.6#

86 49.6 52.0 78.0#

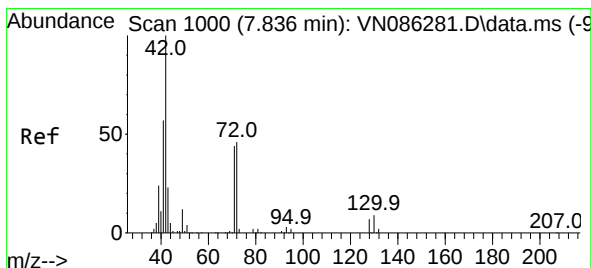
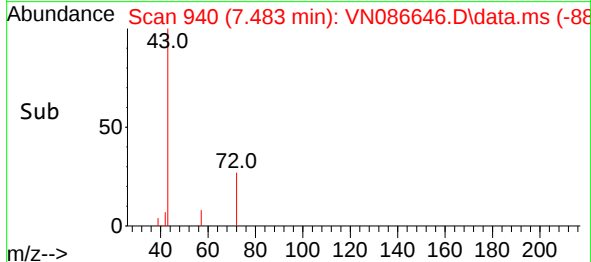
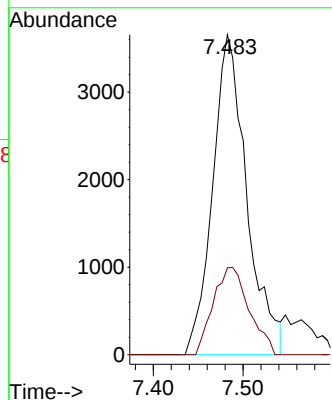
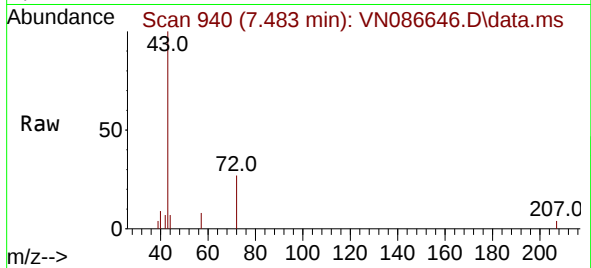




#25
2-Butanone
Concen: 5.220 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN086646.D
Acq: 15 May 2025 15:36

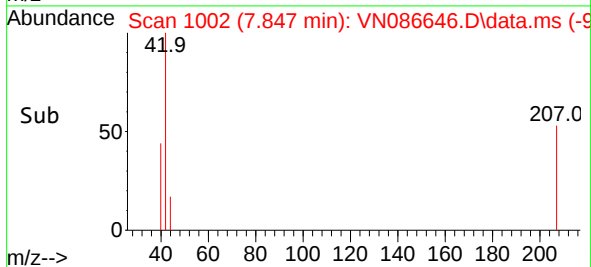
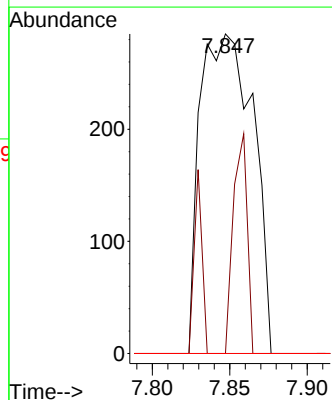
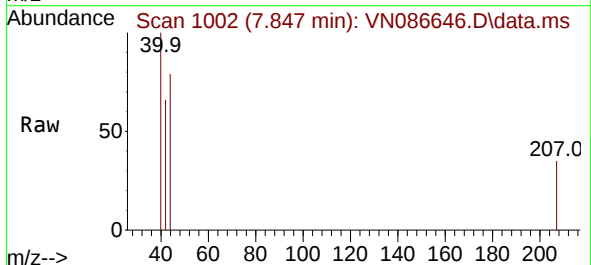
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#08

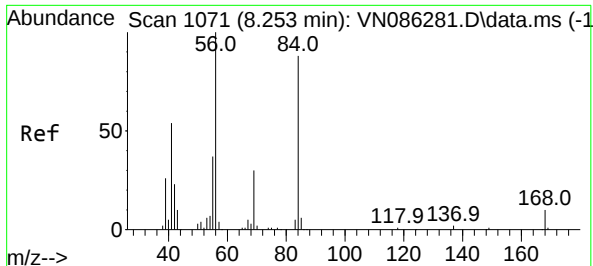
Tgt Ion: 43 Resp: 9665
Ion Ratio Lower Upper
43 100
72 27.1 21.7 32.5



#29
Tetrahydrofuran
Concen: 0.545 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.012 min
Lab File: VN086646.D
Acq: 15 May 2025 15:36

Tgt Ion: 42 Resp: 675
Ion Ratio Lower Upper
42 100
72 18.1 36.2 54.4#
71 0.0 34.0 51.0#

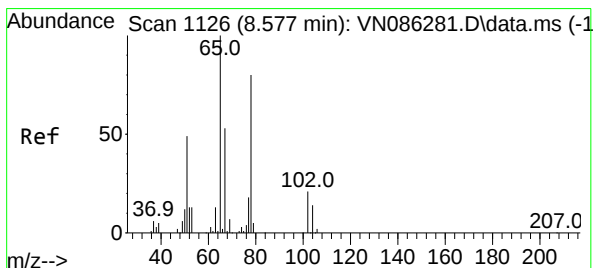
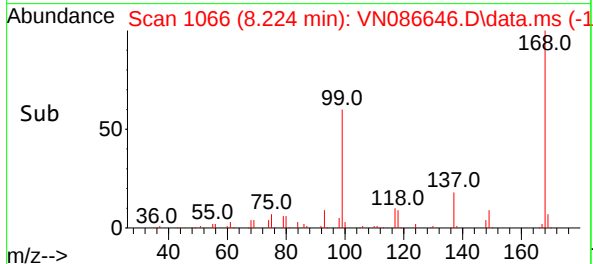
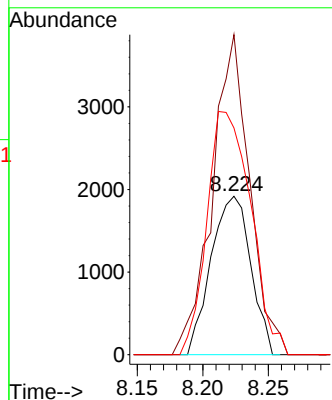
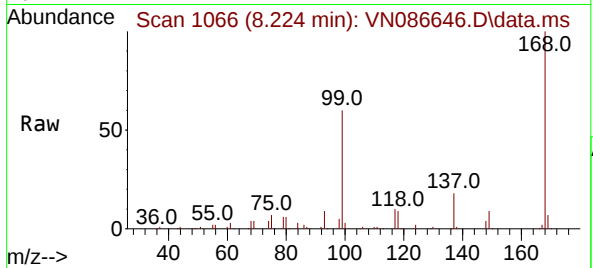




#31
Cyclohexane
Concen: 0.838 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.029 min
Lab File: VN086646.D
Acq: 15 May 2025 15:36

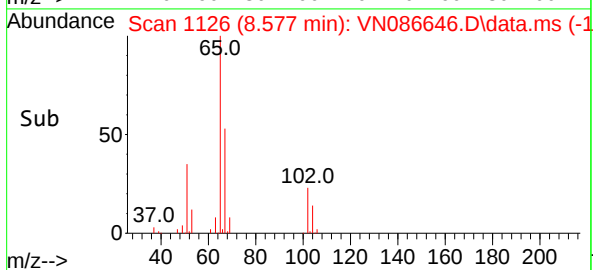
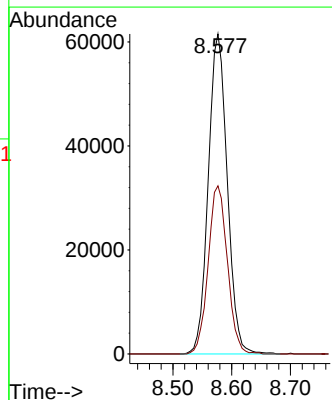
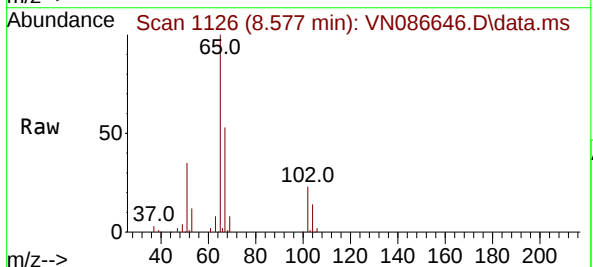
Instrument :
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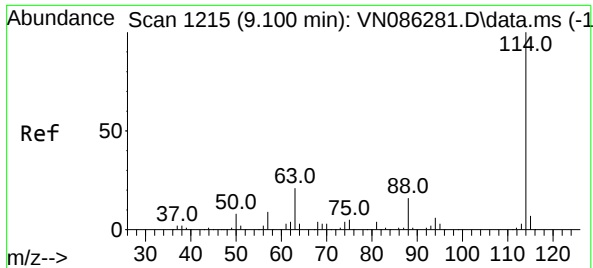
Tgt Ion: 56 Resp: 4041
Ion Ratio Lower Upper
56 100
69 192.4 24.2 36.2#
84 143.2 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 46.461 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086646.D
Acq: 15 May 2025 15:36

Tgt Ion: 65 Resp: 138205
Ion Ratio Lower Upper
65 100
67 53.2 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: VN086646.D

Acq: 15 May 2025 15:36

Instrument :

MSVOA_N

ClientSampleId :

PB167995ZHE#08

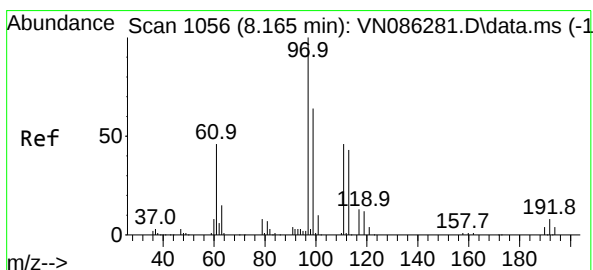
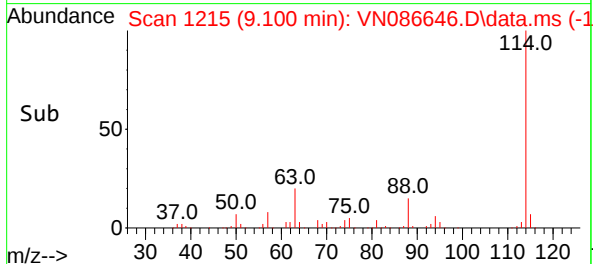
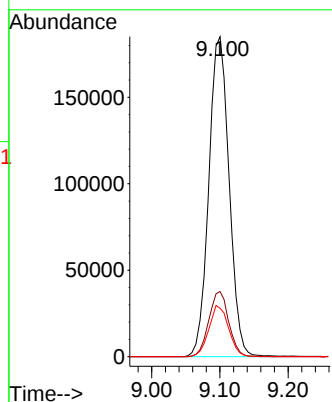
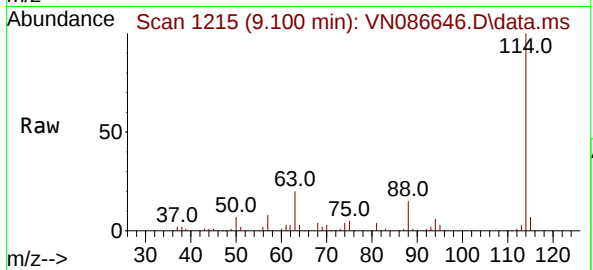
Tgt Ion:114 Resp: 384057

Ion Ratio Lower Upper

114 100

63 20.4 0.0 42.6

88 15.1 0.0 31.8



#35

Dibromofluoromethane

Concen: 63.537 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086646.D

Acq: 15 May 2025 15:36

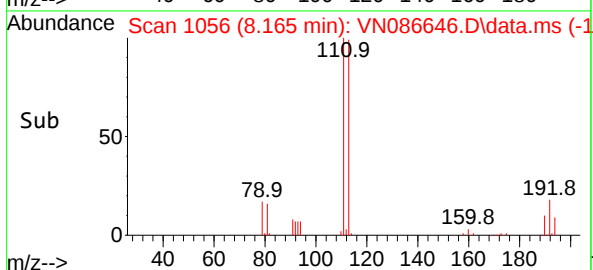
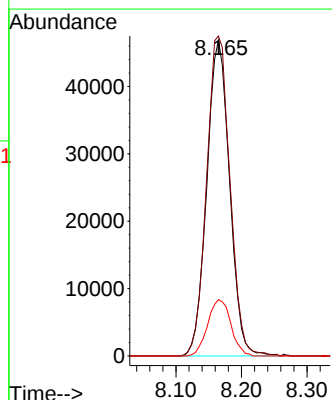
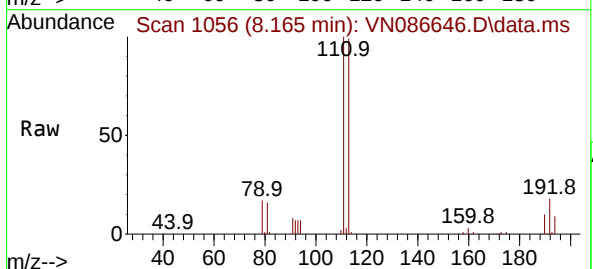
Tgt Ion:113 Resp: 113252

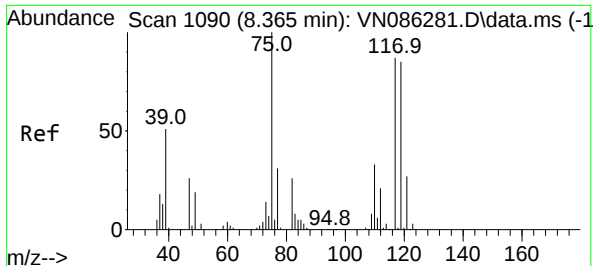
Ion Ratio Lower Upper

113 100

111 104.0 83.4 125.0

192 18.2 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.533 ug/l

RT: 8.218 min Scan# 1

Delta R.T. -0.147 min

Lab File: VN086646.D

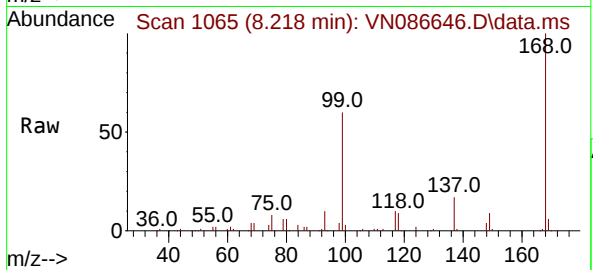
Acq: 15 May 2025 15:36

Instrument :

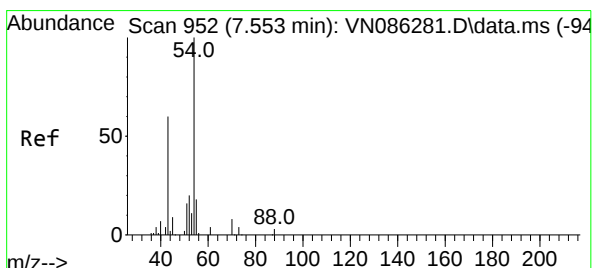
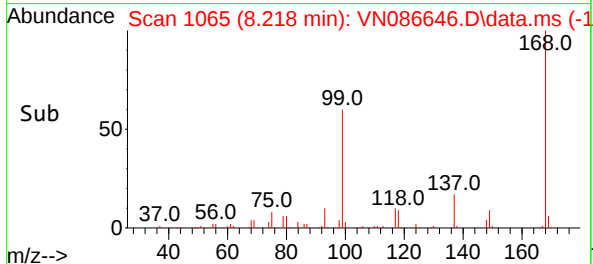
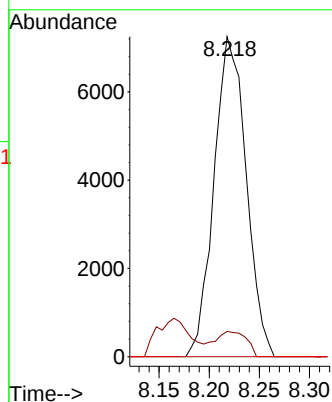
MSVOA_N

ClientSampleId :

PB167995ZHE#08



Tgt Ion:	75	Resp:	16139
Ion Ratio	Lower	Upper	
75	100		
110	7.8	16.8	50.4#
77	0.0	24.9	37.3#



#37

Ethyl Acetate

Concen: 2.579 ug/l

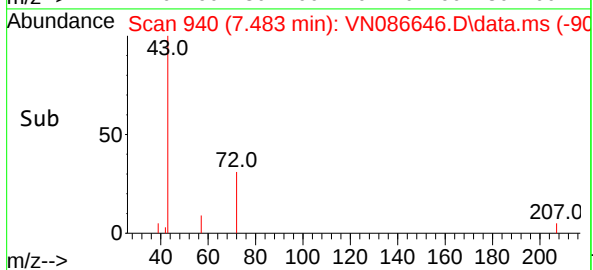
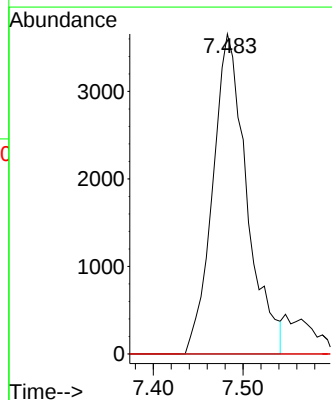
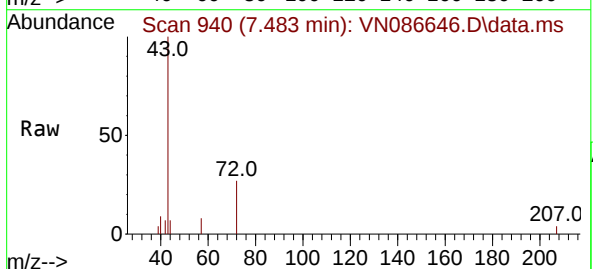
RT: 7.483 min Scan# 940

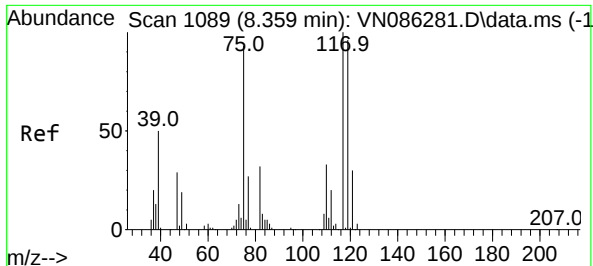
Delta R.T. -0.071 min

Lab File: VN086646.D

Acq: 15 May 2025 15:36

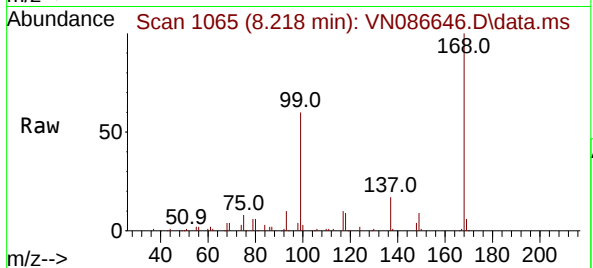
Tgt Ion:	43	Resp:	9665
Ion Ratio	Lower	Upper	
43	100		
61	0.0	11.1	16.7#
70	0.0	9.2	13.8#



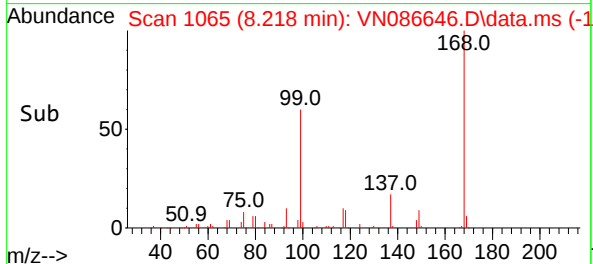
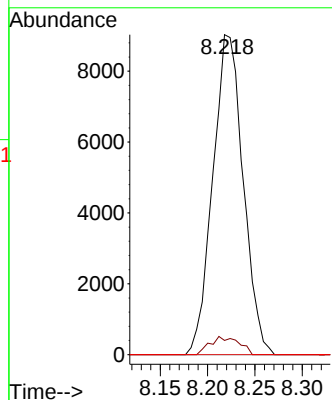


#38
Carbon Tetrachloride
Concen: 5.943 ug/l
RT: 8.218 min Scan# 110
Delta R.T. -0.141 min
Lab File: VN086646.D
Acq: 15 May 2025 15:36

Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#08

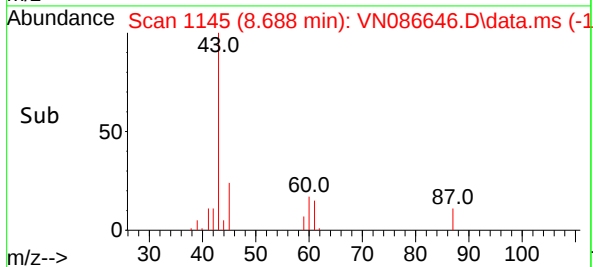
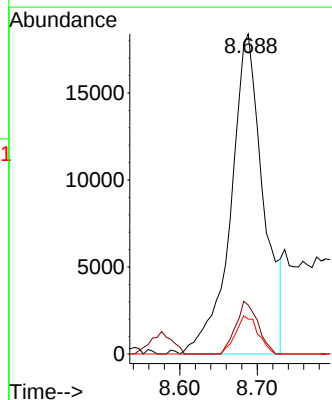
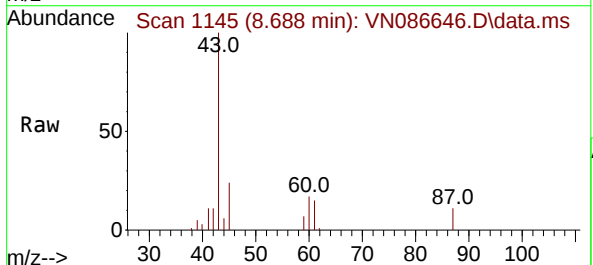


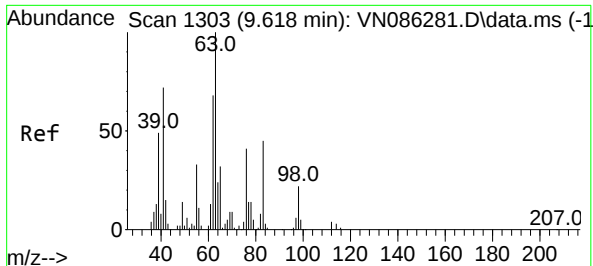
Tgt Ion:117 Resp: 20148
Ion Ratio Lower Upper
117 100
119 4.4 76.8 115.2#
121 0.0 23.8 35.8#



#43
Isopropyl Acetate
Concen: 6.221 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.005 min
Lab File: VN086646.D
Acq: 15 May 2025 15:36

Tgt Ion: 43 Resp: 53643
Ion Ratio Lower Upper
43 100
61 11.2 20.5 30.7#
87 8.3 10.5 15.7#





#45

1,2-Dichloropropane

Concen: 0.477 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.123 min

Lab File: VN086646.D

Acq: 15 May 2025 15:36

Instrument :

MSVOA_N

ClientSampleId :

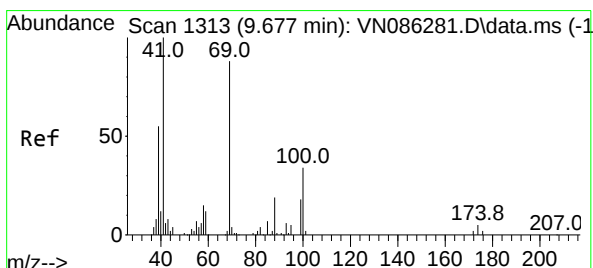
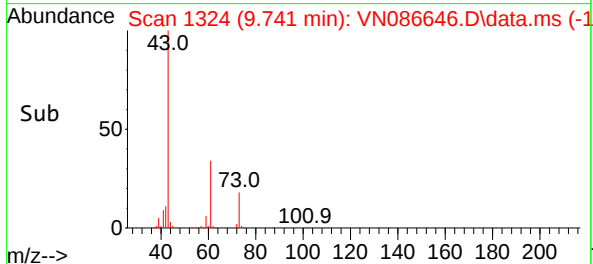
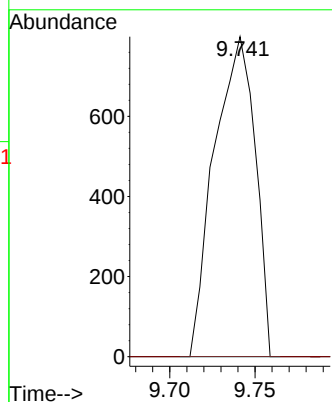
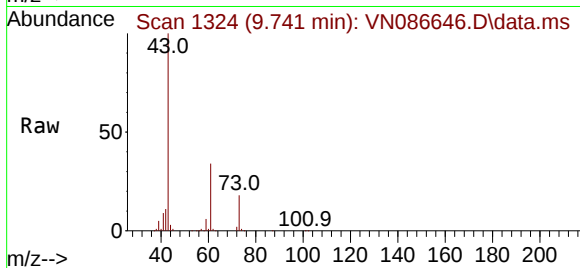
PB167995ZHE#08

Tgt Ion: 63 Resp: 1331

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#



#48

Methyl methacrylate

Concen: 27.164 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.065 min

Lab File: VN086646.D

Acq: 15 May 2025 15:36

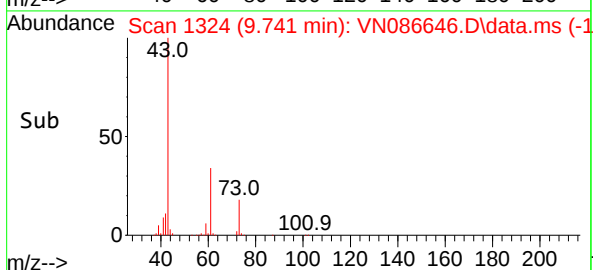
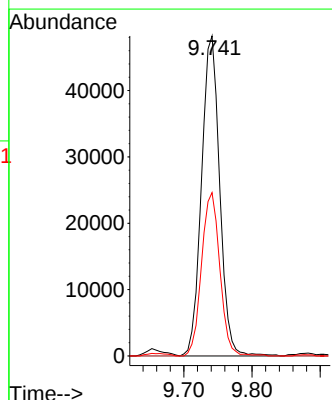
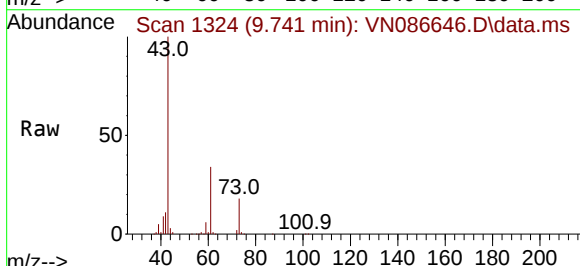
Tgt Ion: 41 Resp: 89411

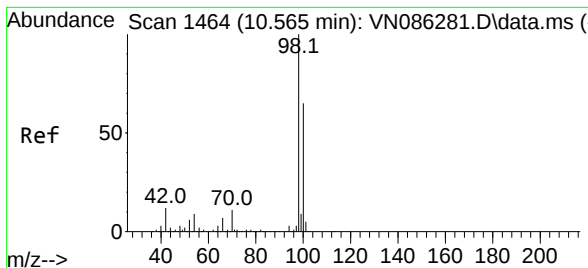
Ion Ratio Lower Upper

41 100

69 0.0 68.2 102.2#

39 51.5 45.2 67.8

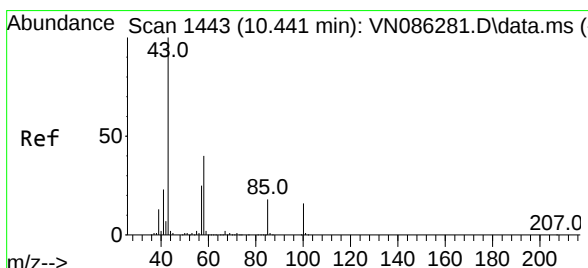
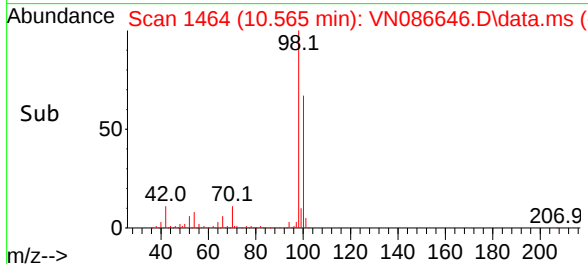
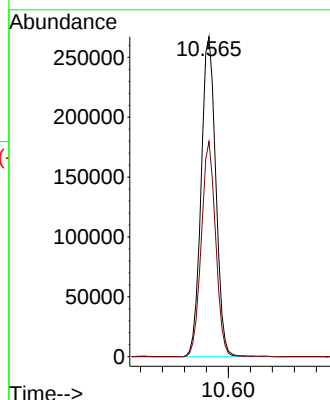
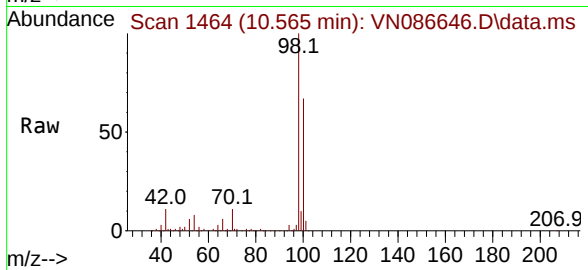




#50
Toluene-d8
Concen: 51.965 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086646.D
Acq: 15 May 2025 15:36

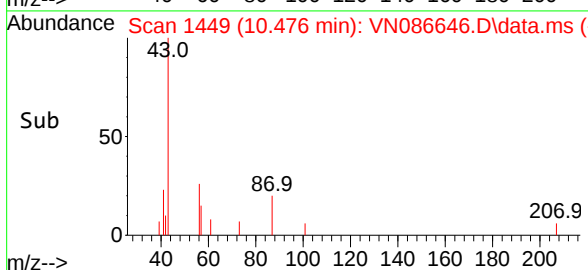
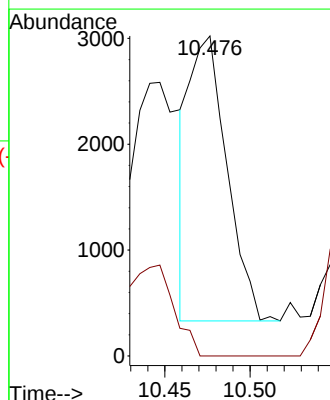
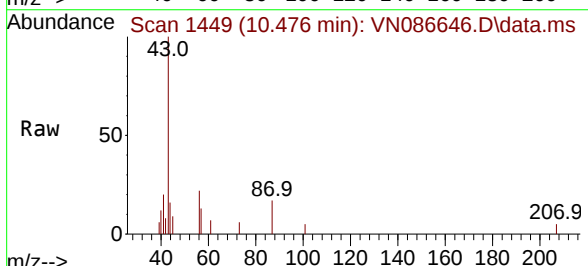
Instrument : MSVOA_N
ClientSampleId : PB167995ZHE#08

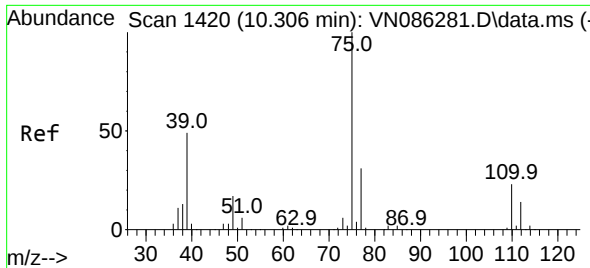
Tgt Ion: 98 Resp: 495033
Ion Ratio Lower Upper
98 100
100 65.9 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 1.082 ug/l
RT: 10.476 min Scan# 1449
Delta R.T. 0.035 min
Lab File: VN086646.D
Acq: 15 May 2025 15:36

Tgt Ion: 43 Resp: 4153
Ion Ratio Lower Upper
43 100
58 0.0 32.2 48.4#

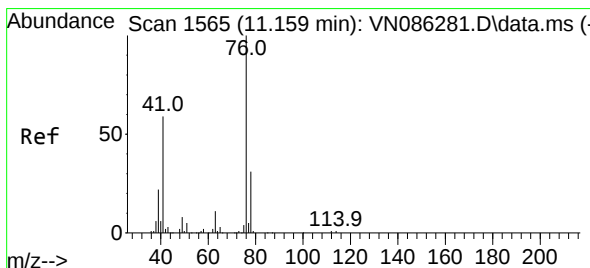
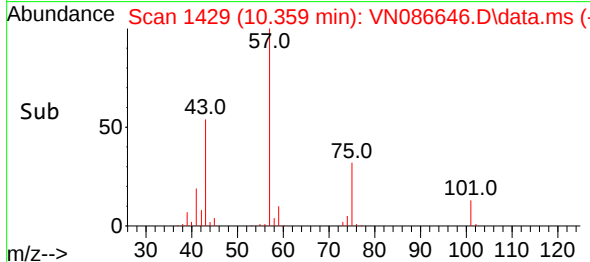
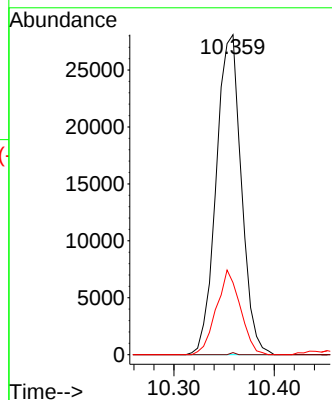
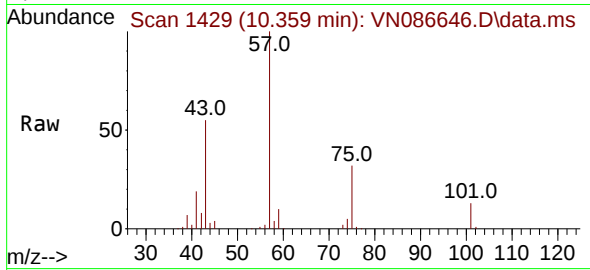




#54
 cis-1,3-Dichloropropene
 Concen: 10.371 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.053 min
 Lab File: VN086646.D
 Acq: 15 May 2025 15:36

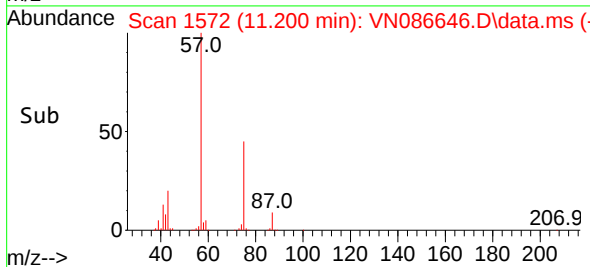
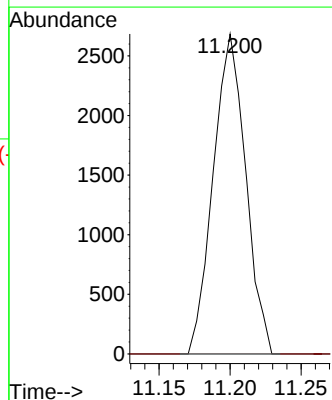
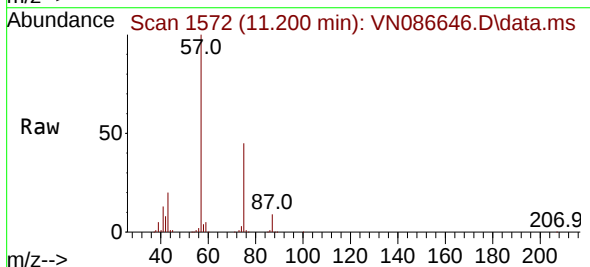
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167995ZHE#08

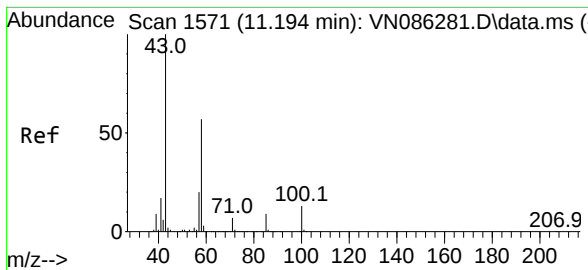
Tgt Ion: 75 Resp: 48858
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.2 37.8#
 39 22.5 39.3 58.9#



#57
 1,3-Dichloropropane
 Concen: 0.938 ug/l
 RT: 11.200 min Scan# 1572
 Delta R.T. 0.041 min
 Lab File: VN086646.D
 Acq: 15 May 2025 15:36

Tgt Ion: 76 Resp: 4261
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#

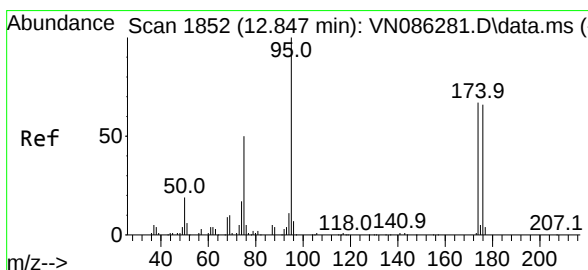
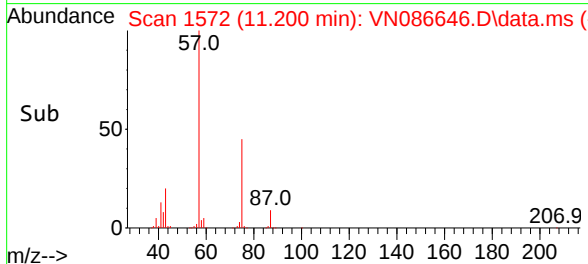
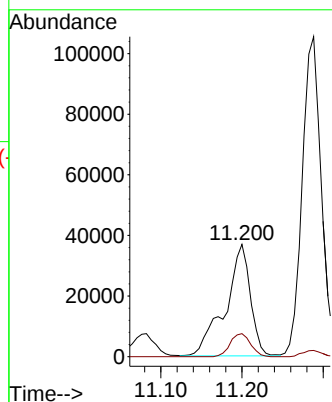
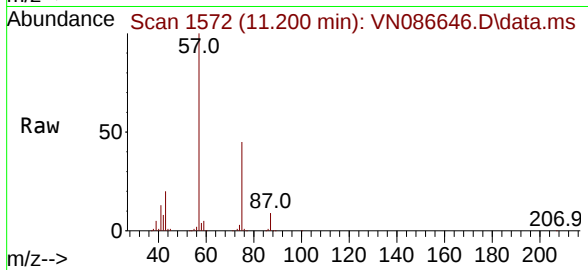




#59
2-Hexanone
Concen: 27.803 ug/l
RT: 11.200 min Scan# 1117
Delta R.T. 0.006 min
Lab File: VN086646.D
Acq: 15 May 2025 15:36

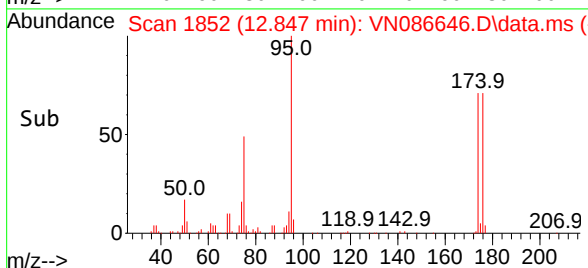
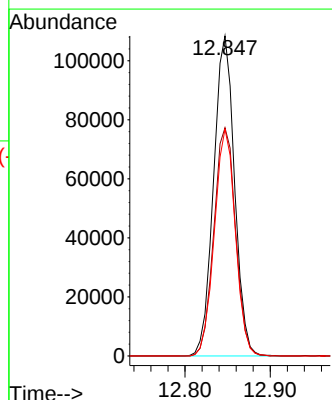
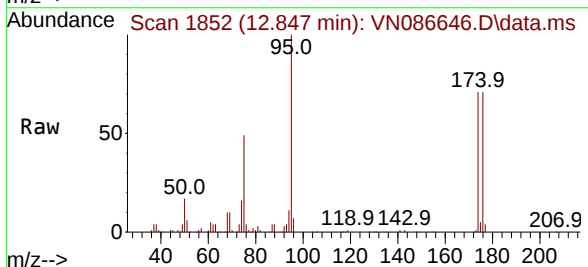
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#08

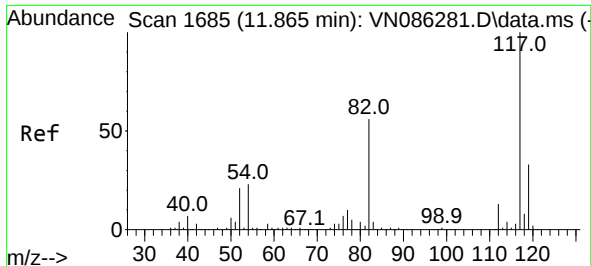
Tgt Ion: 43 Resp: 79151
Ion Ratio Lower Upper
43 100
58 16.8 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 53.201 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086646.D
Acq: 15 May 2025 15:36

Tgt Ion: 95 Resp: 184855
Ion Ratio Lower Upper
95 100
174 73.9 0.0 133.4
176 70.9 0.0 129.2

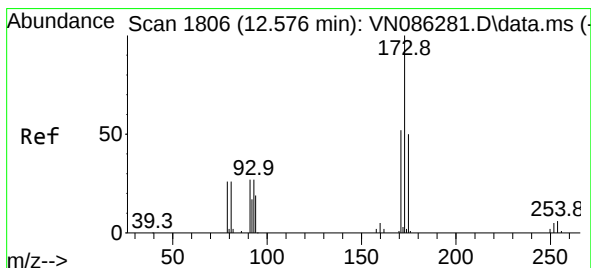
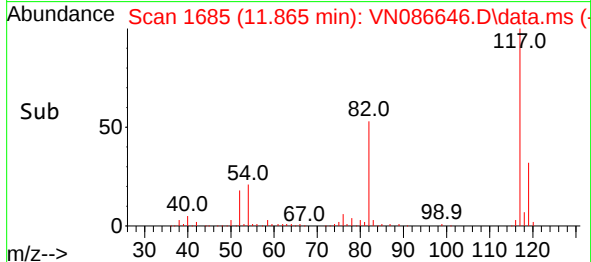
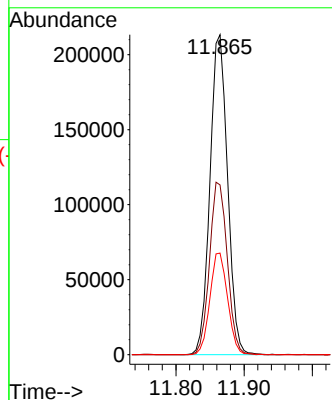
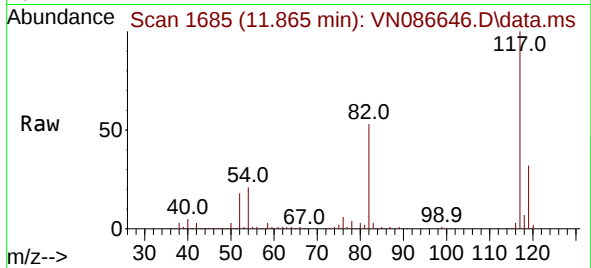




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN086646.D
Acq: 15 May 2025 15:36

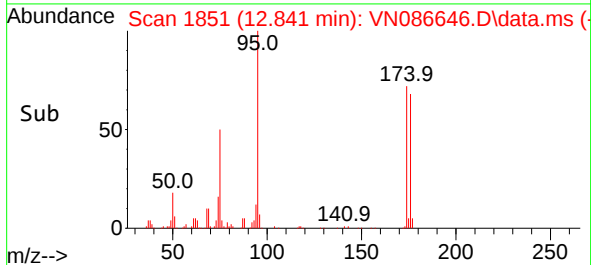
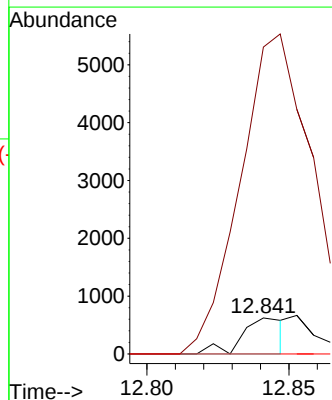
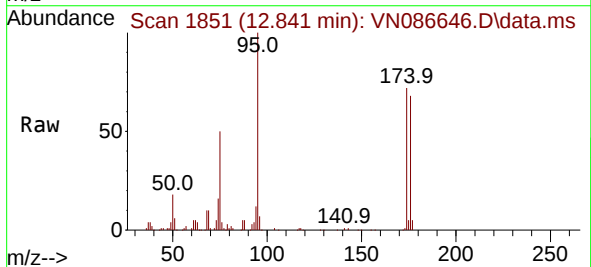
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#08

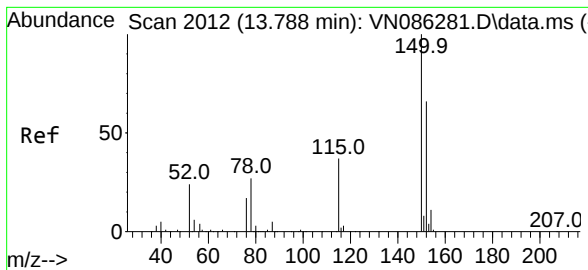
Tgt Ion:117 Resp: 383008
Ion Ratio Lower Upper
117 100
82 53.1 44.7 67.1
119 31.8 26.4 39.6



#71
Bromoform
Concen: 0.306 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. 0.265 min
Lab File: VN086646.D
Acq: 15 May 2025 15:36

Tgt Ion:173 Resp: 649
Ion Ratio Lower Upper
173 100
175 1190.1 24.6 73.6#
254 0.0 0.0 0.0

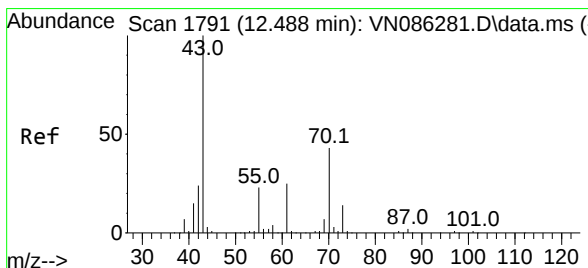
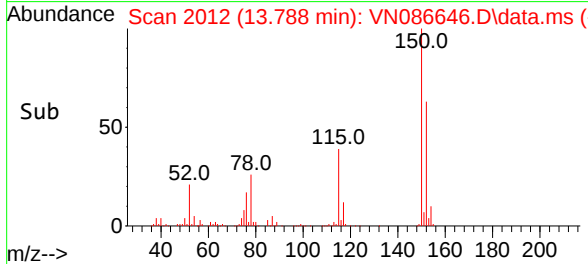
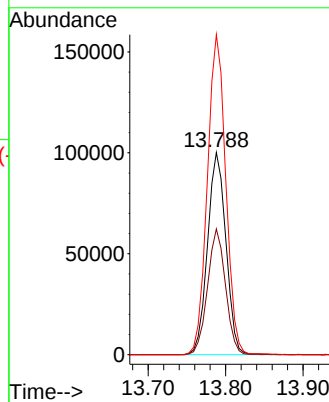
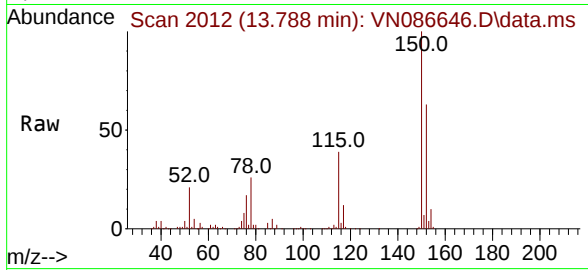




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN086646.D
Acq: 15 May 2025 15:36

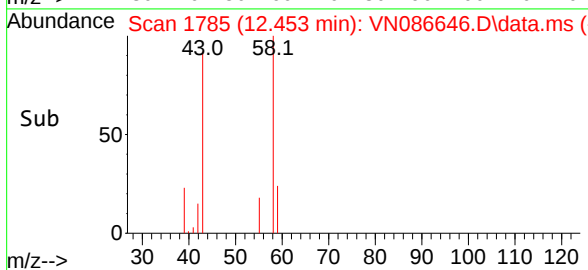
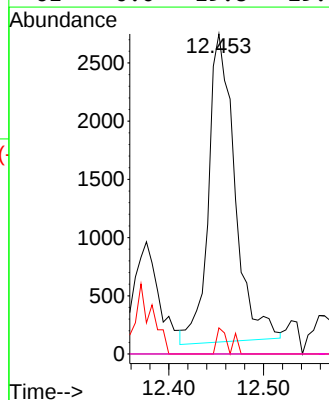
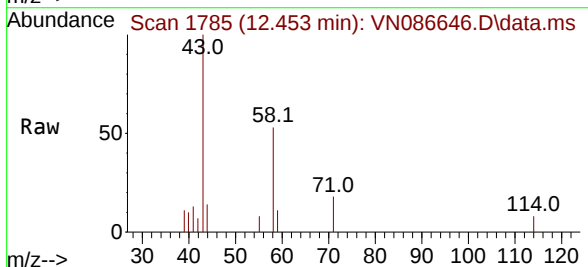
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#08

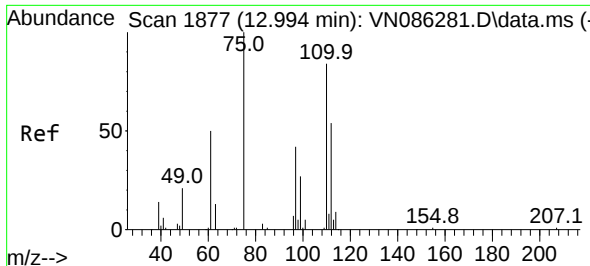
Tgt Ion:152 Resp: 165181
Ion Ratio Lower Upper
152 100
115 60.7 31.9 95.9
150 158.3 0.0 352.0



#74
N-ethyl acetate
Concen: 0.762 ug/l
RT: 12.453 min Scan# 1785
Delta R.T. -0.035 min
Lab File: VN086646.D
Acq: 15 May 2025 15:36

Tgt Ion: 43 Resp: 5124
Ion Ratio Lower Upper
43 100
70 0.0 35.0 52.4#
55 4.0 19.0 28.4#
61 0.0 19.8 29.8#

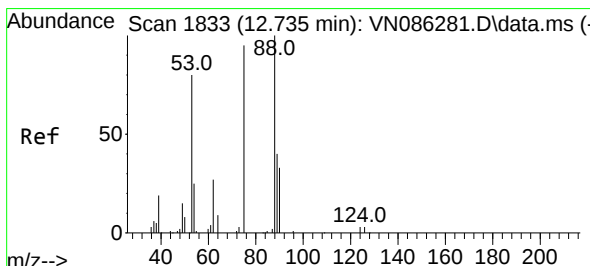
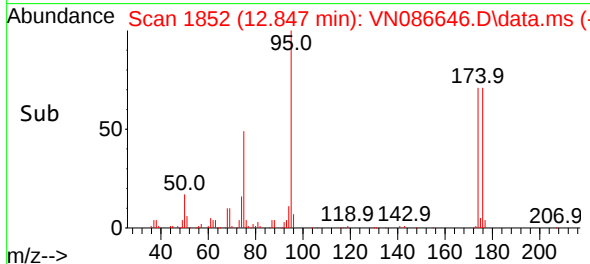
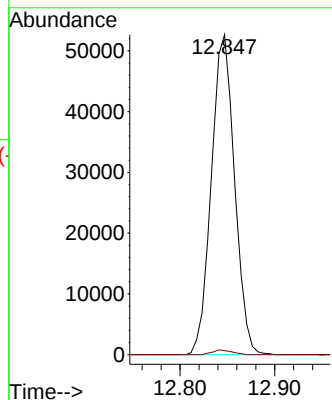
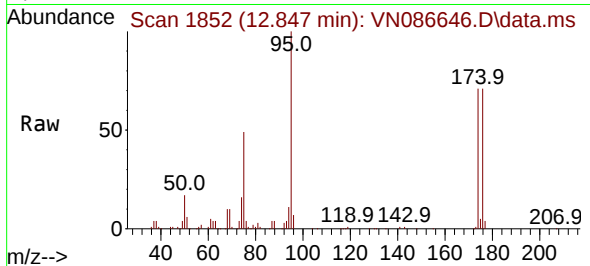




#76
1,2,3-Trichloropropane
Concen: 22.981 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086646.D
Acq: 15 May 2025 15:36

Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#08

Tgt Ion: 75 Resp: 89581
Ion Ratio Lower Upper
75 100
77 1.2 98.8 296.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 55.192 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086646.D
Acq: 15 May 2025 15:36

Tgt Ion: 75 Resp: 89581
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#

