

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN040225\
 Data File : VN086207.D
 Acq On : 02 Apr 2025 14:43
 Operator : JC\MD
 Sample : PB167409TB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167409TB

Quant Time: Apr 03 01:35:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 03:20:56 2025
 Response via : Initial Calibration

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

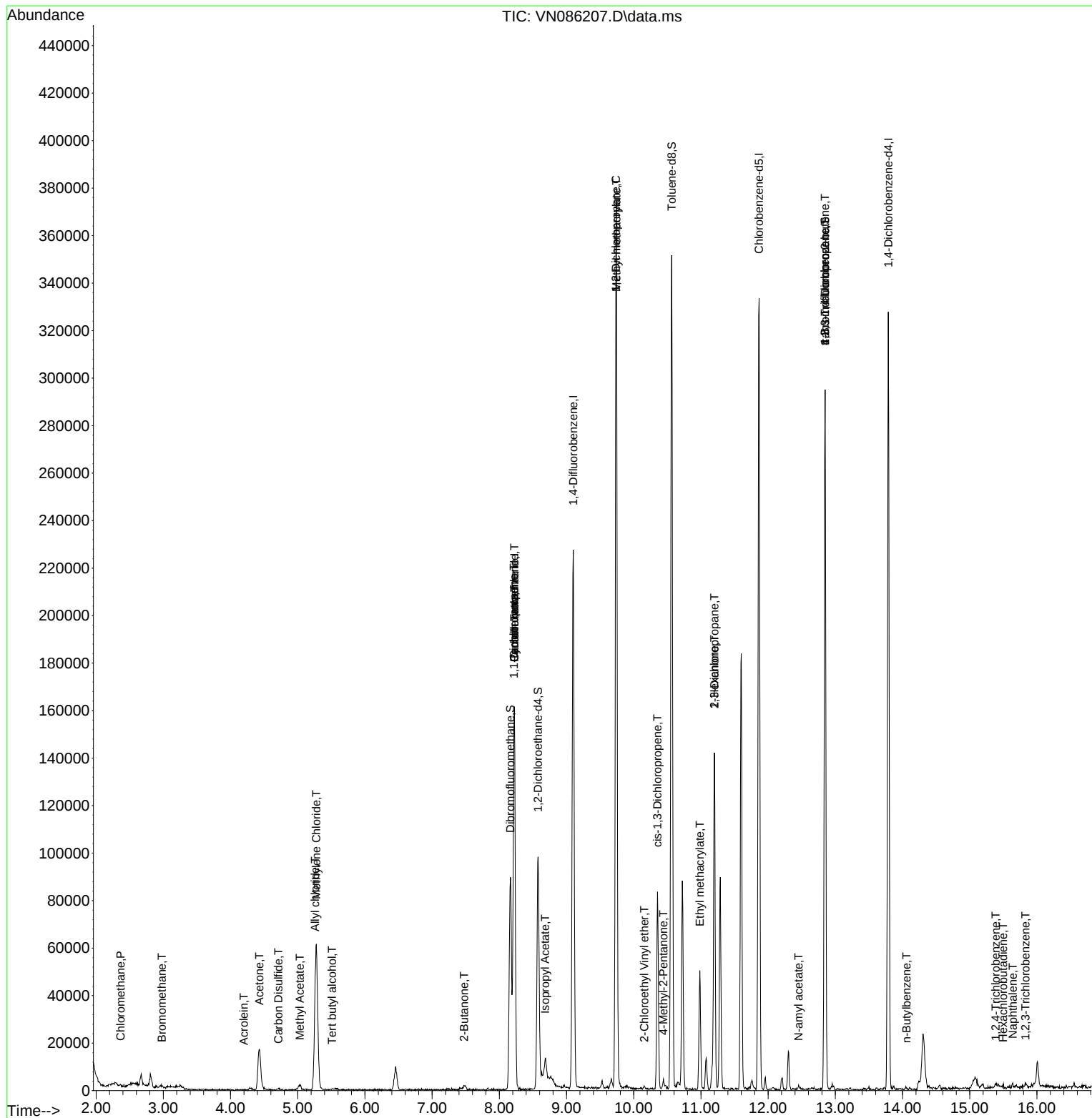
Internal Standards						
1) Pentafluorobenzene	8.224	168	115531	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	197601	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	192823	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	87735	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	87710	55.442	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 110.880%			
35) Dibromofluoromethane	8.165	113	64178	46.532	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 93.060%			
50) Toluene-d8	10.565	98	244395	48.824	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.640%			
62) 4-Bromofluorobenzene	12.847	95	100016	56.026	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 112.060%			
Target Compounds						Qvalue
3) Chloromethane	2.365	50	384	0.286	ug/l #	83
5) Bromomethane	2.977	94	528	0.565	ug/l #	64
11) Tert butyl alcohol	5.512	59	369	1.647	ug/l #	73
13) Acrolein	4.201	56	56	0.234	ug/l #	15
14) Allyl chloride	5.259	41	749	0.507	ug/l #	20
16) Acetone	4.430	43	34269	70.903	ug/l	97
17) Carbon Disulfide	4.712	76	1214	0.312	ug/l #	74
18) Methyl Acetate	5.030	43	3790	3.169	ug/l	91
20) Methylene Chloride	5.277	84	51914	36.717	ug/l	93
25) 2-Butanone	7.477	43	3627	5.201	ug/l #	81
31) Cyclohexane	8.224	56	2371	1.203	ug/l #	17
36) 1,1-Dichloropropene	8.218	75	8622	4.748	ug/l #	49
38) Carbon Tetrachloride	8.224	117	12523	5.244	ug/l #	16
43) Isopropyl Acetate	8.683	43	10258	3.090	ug/l #	83
45) 1,2-Dichloropropane	9.736	63	585	0.451	ug/l #	44
48) Methyl methacrylate	9.741	41	34361	31.363	ug/l #	34
51) 4-Methyl-2-Pentanone	10.441	43	1733	1.184	ug/l	93
54) cis-1,3-Dichloropropene	10.353	75	16305	7.466	ug/l #	66
56) Ethyl methacrylate	10.982	69	333	0.385	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	1472	0.649	ug/l #	42
58) 2-Chloroethyl Vinyl ether	10.159	63	464	4.162	ug/l #	43
59) 2-Hexanone	11.200	43	24108	22.601	ug/l #	40
74) N-amyl acetate	12.453	43	1714	0.855	ug/l #	37
76) 1,2,3-Trichloropropane	12.847	75	53431	27.202	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	53431	71.918	ug/l #	16
89) n-Butylbenzene	14.059	91	1024	0.263	ug/l #	67
93) 1,2,4-Trichlorobenzene	15.388	180	666	0.442	ug/l	83
94) Hexachlorobutadiene	15.494	225	418	0.479	ug/l #	71
95) Naphthalene	15.641	128	2463	0.565	ug/l #	81
96) 1,2,3-Trichlorobenzene	15.829	180	710	0.497	ug/l #	80

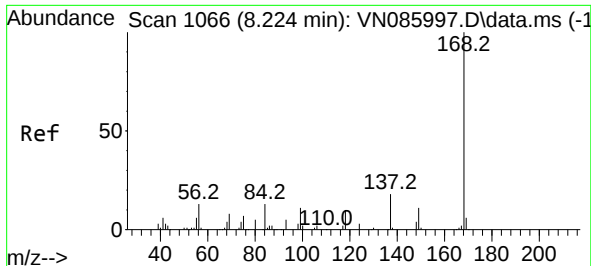
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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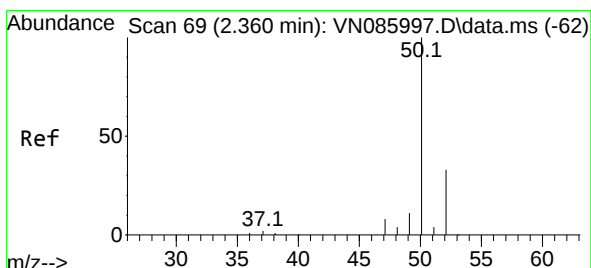
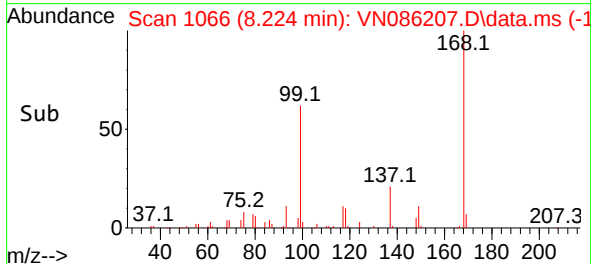
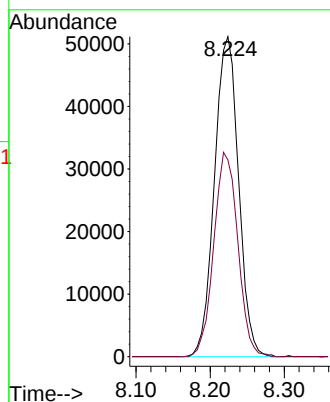
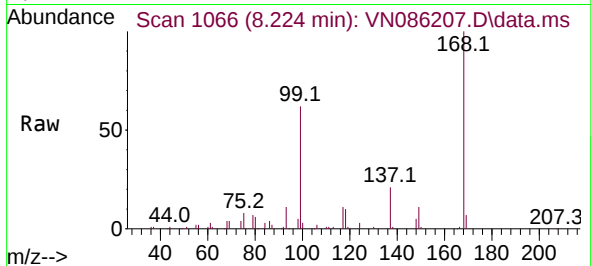




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086207.D
Acq: 02 Apr 2025 14:43

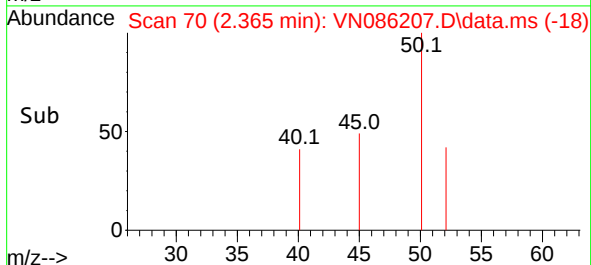
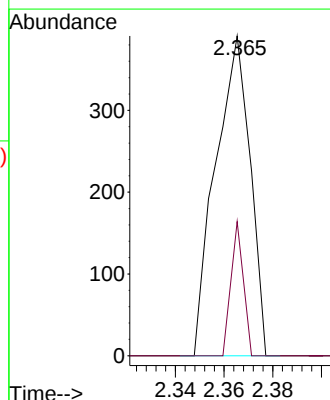
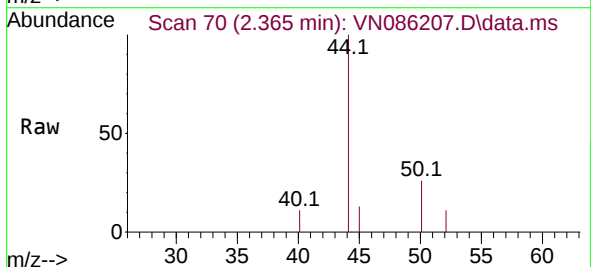
Instrument :
MSVOA_N
ClientSampleId :
PB167409TB

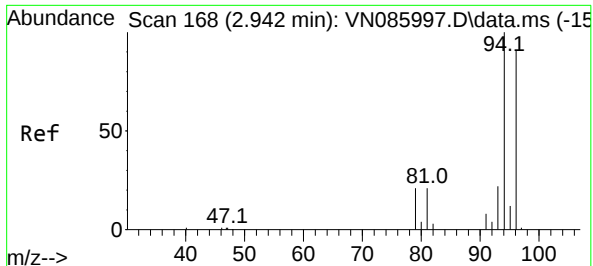
Tgt Ion:168 Resp: 115531
Ion Ratio Lower Upper
168 100
99 61.5 49.4 74.2



#3
Chloromethane
Concen: 0.286 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086207.D
Acq: 02 Apr 2025 14:43

Tgt Ion: 50 Resp: 384
Ion Ratio Lower Upper
50 100
52 41.9 26.0 39.0#

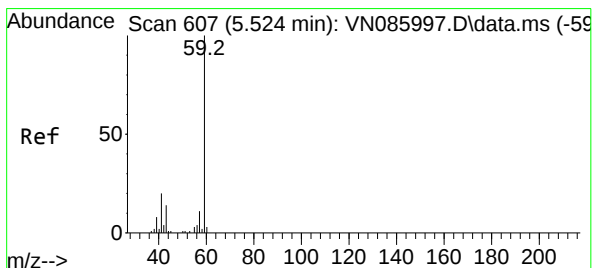
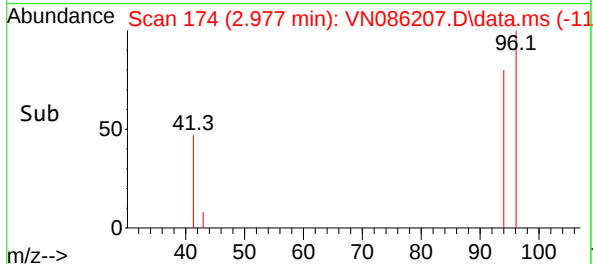
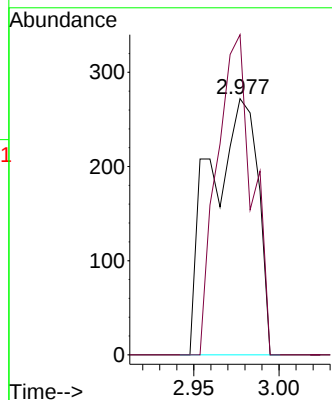
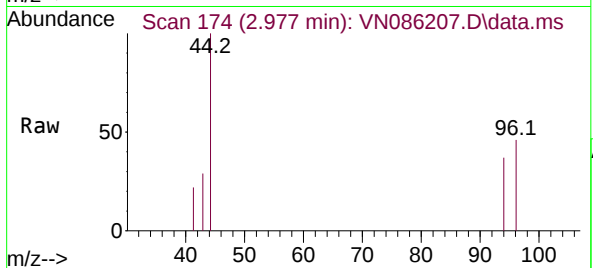




#5
Bromomethane
Concen: 0.565 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.035 min
Lab File: VN086207.D
Acq: 02 Apr 2025 14:43

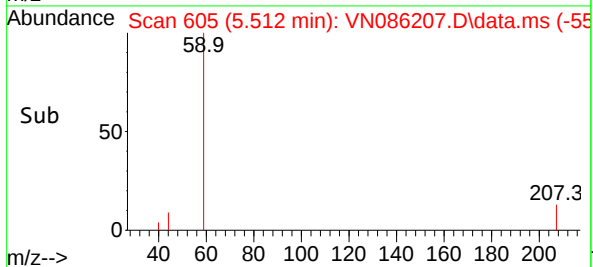
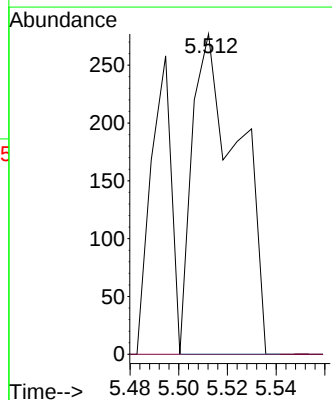
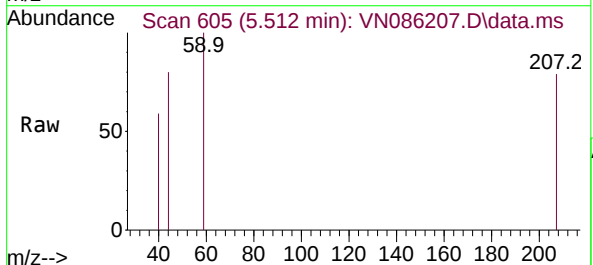
Instrument :
MSVOA_N
ClientSampleId :
PB167409TB

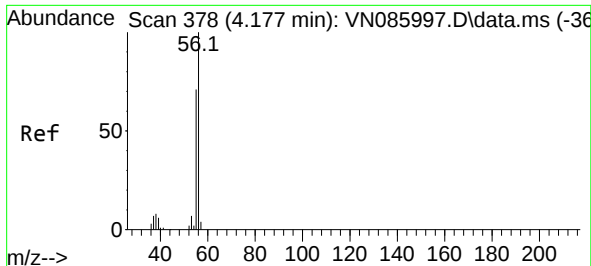
Tgt Ion: 94 Resp: 528
Ion Ratio Lower Upper
94 100
96 125.0 72.8 109.2#



#11
Tert butyl alcohol
Concen: 1.647 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.012 min
Lab File: VN086207.D
Acq: 02 Apr 2025 14:43

Tgt Ion: 59 Resp: 369
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#





#13

Acrolein

Concen: 0.234 ug/l

RT: 4.201 min Scan# 31

Delta R.T. 0.024 min

Lab File: VN086207.D

Acq: 02 Apr 2025 14:43

Instrument :

MSVOA_N

ClientSampleId :

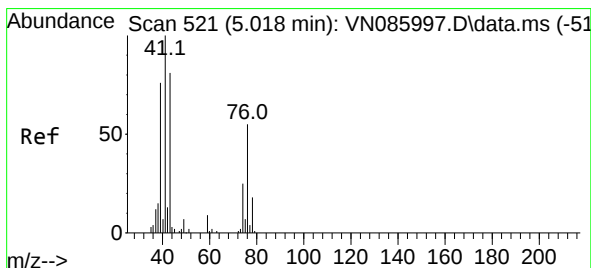
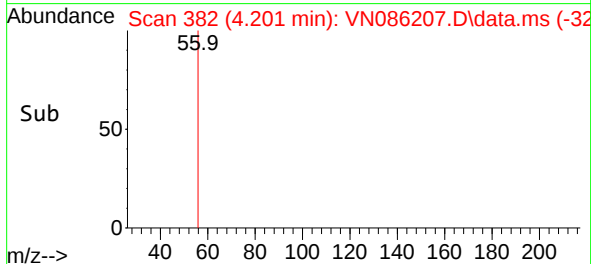
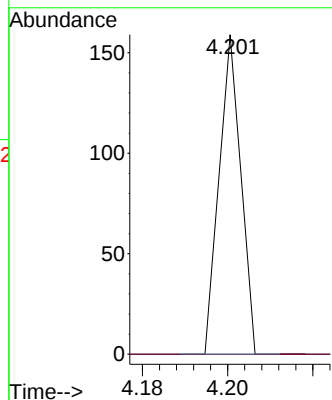
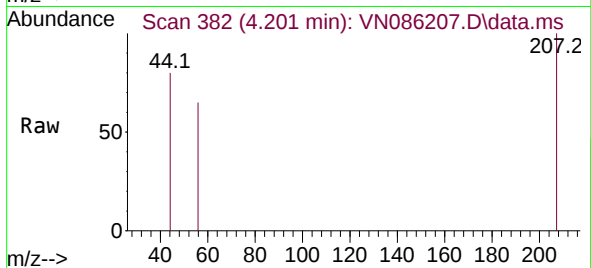
PB167409TB

Tgt Ion: 56 Resp: 56

Ion Ratio Lower Upper

56 100

55 0.0 55.1 82.7#



#14

Allyl chloride

Concen: 0.507 ug/l

RT: 5.259 min Scan# 562

Delta R.T. 0.241 min

Lab File: VN086207.D

Acq: 02 Apr 2025 14:43

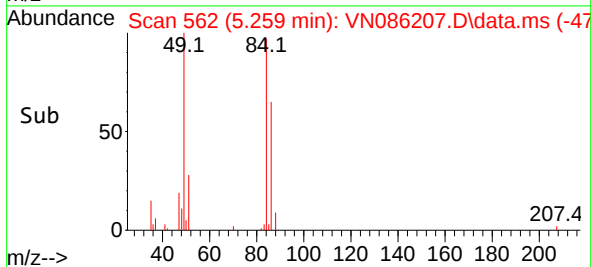
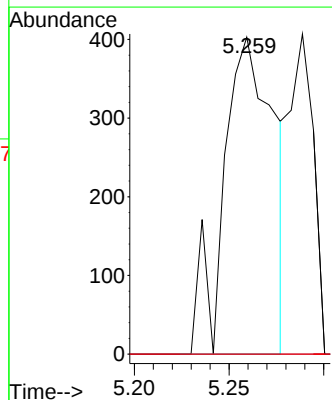
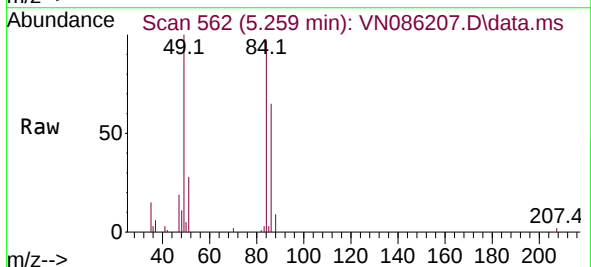
Tgt Ion: 41 Resp: 749

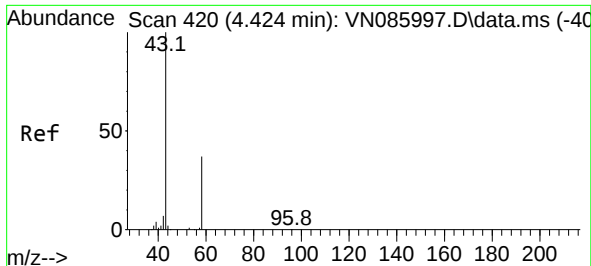
Ion Ratio Lower Upper

41 100

39 0.0 55.5 83.3#

76 0.0 39.1 58.7#

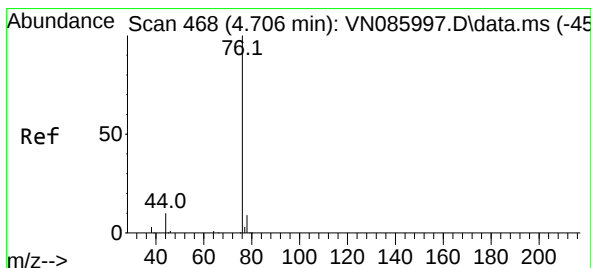
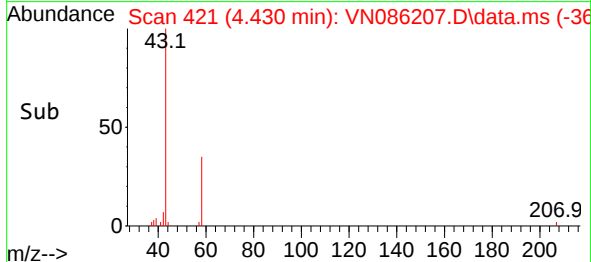
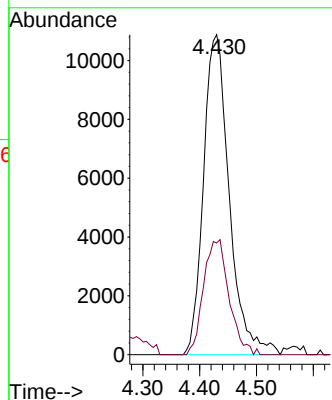
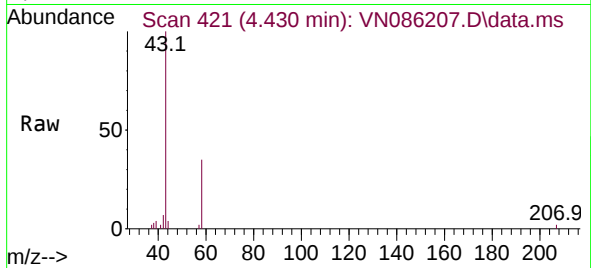




#16
Acetone
Concen: 70.903 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN086207.D
Acq: 02 Apr 2025 14:43

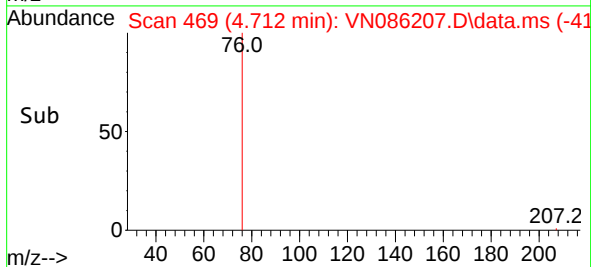
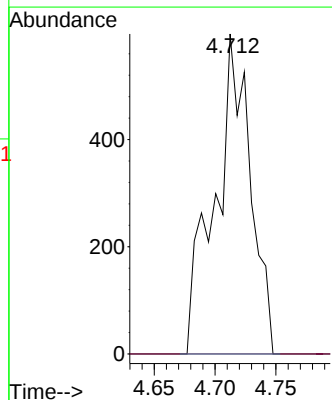
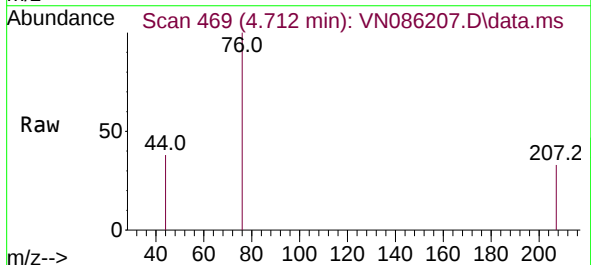
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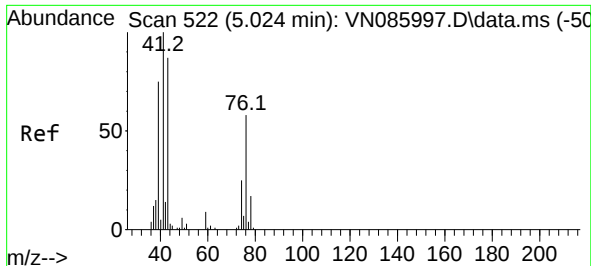
Tgt Ion: 43 Resp: 34269
Ion Ratio Lower Upper
43 100
58 34.9 29.4 44.2



#17
Carbon Disulfide
Concen: 0.312 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.006 min
Lab File: VN086207.D
Acq: 02 Apr 2025 14:43

Tgt Ion: 76 Resp: 1214
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.2#

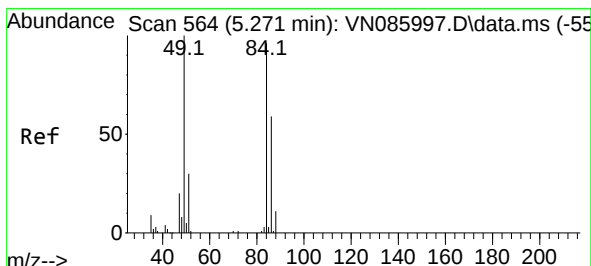
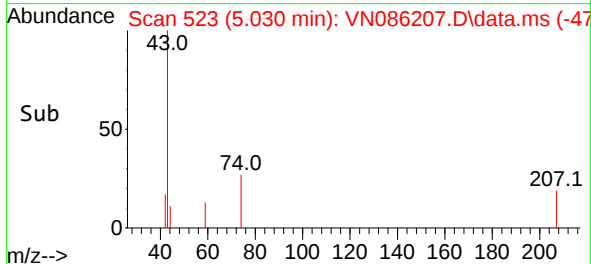
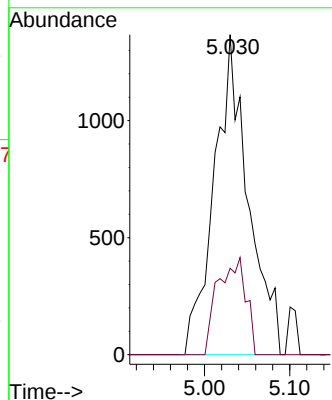
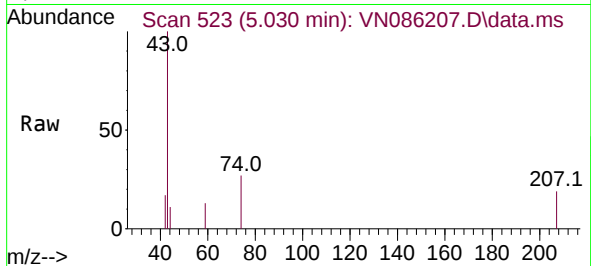




#18
Methyl Acetate
Concen: 3.169 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086207.D
Acq: 02 Apr 2025 14:43

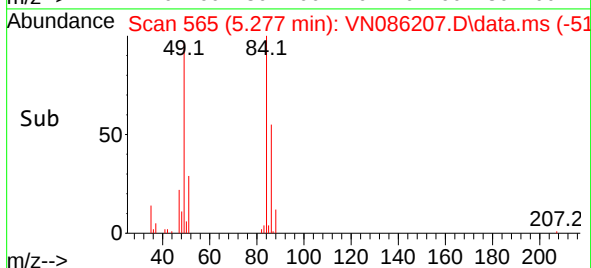
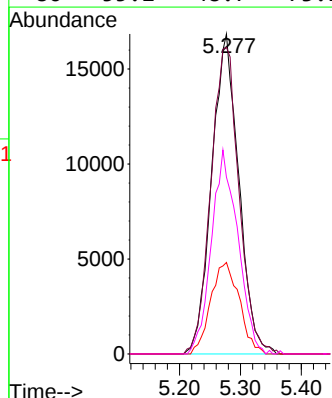
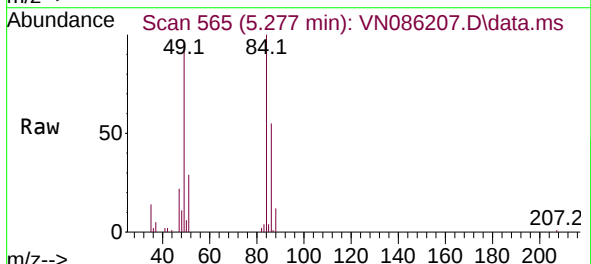
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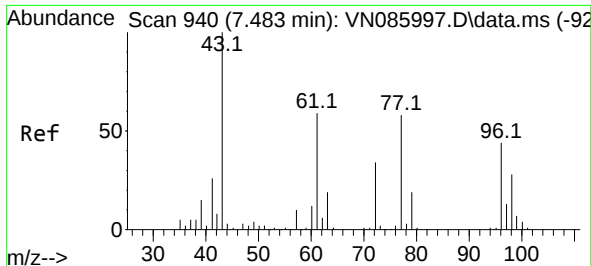
Tgt Ion: 43 Resp: 3790
Ion Ratio Lower Upper
43 100
74 25.0 23.9 35.9



#20
Methylene Chloride
Concen: 36.717 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN086207.D
Acq: 02 Apr 2025 14:43

Tgt Ion: 84 Resp: 51914
Ion Ratio Lower Upper
84 100
49 95.8 83.3 124.9
51 28.6 24.8 37.2
86 55.2 48.7 73.1

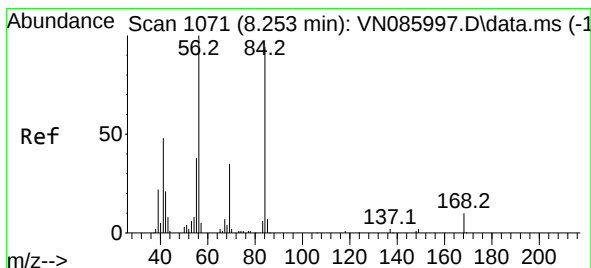
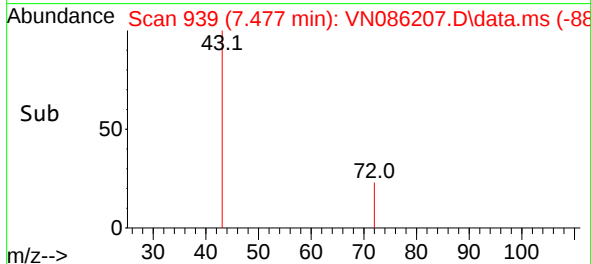
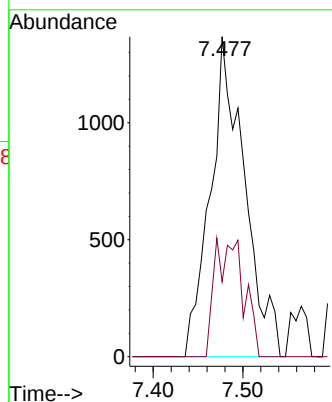
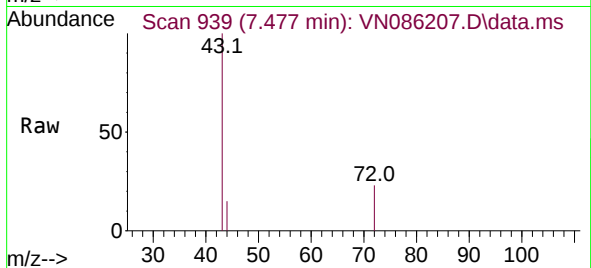




#25
2-Butanone
Concen: 5.201 ug/l
RT: 7.477 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN086207.D
Acq: 02 Apr 2025 14:43

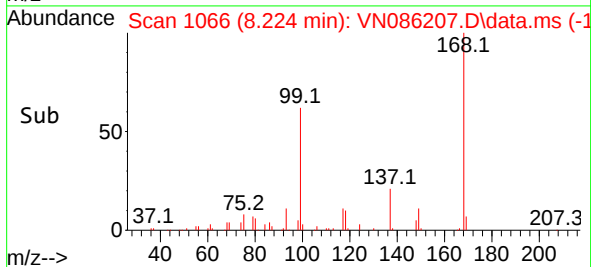
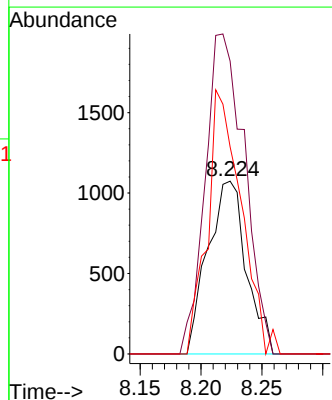
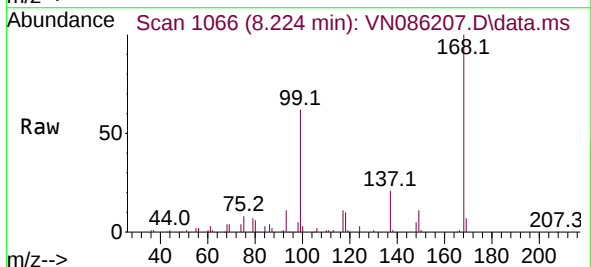
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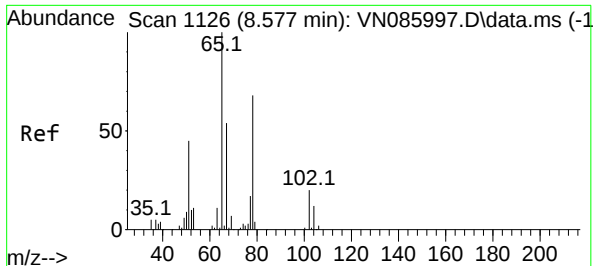
Tgt Ion: 43 Resp: 3627
Ion Ratio Lower Upper
43 100
72 23.5 27.4 41.0#



#31
Cyclohexane
Concen: 1.203 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.029 min
Lab File: VN086207.D
Acq: 02 Apr 2025 14:43

Tgt Ion: 56 Resp: 2371
Ion Ratio Lower Upper
56 100
69 169.5 28.0 42.0#
84 119.8 75.0 112.6#





#33

1,2-Dichloroethane-d4

Concen: 55.442 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086207.D

Acq: 02 Apr 2025 14:43

Instrument :

MSVOA_N

ClientSampleId :

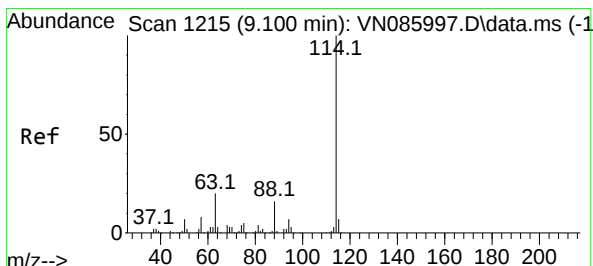
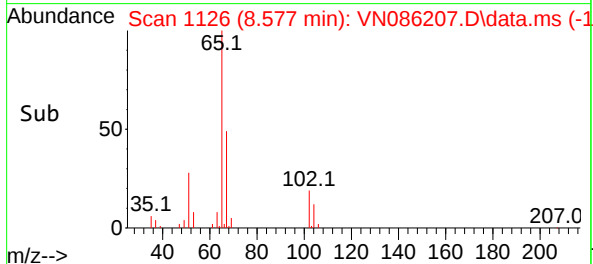
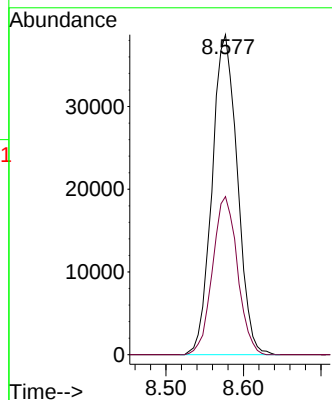
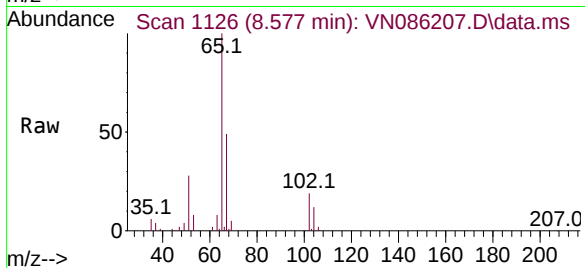
PB167409TB

Tgt Ion: 65 Resp: 87710

Ion Ratio Lower Upper

65 100

67 48.8 0.0 102.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086207.D

Acq: 02 Apr 2025 14:43

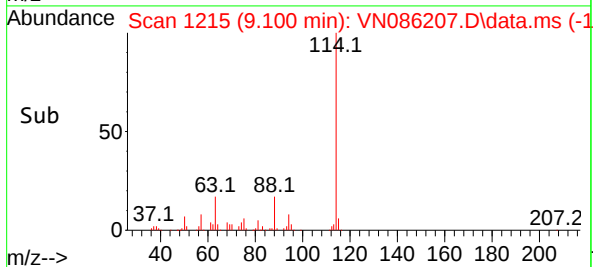
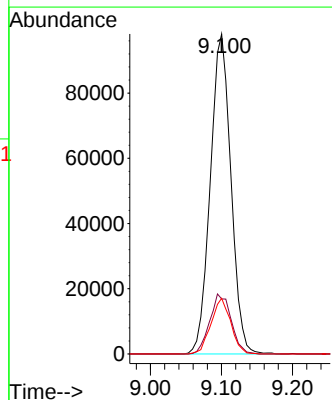
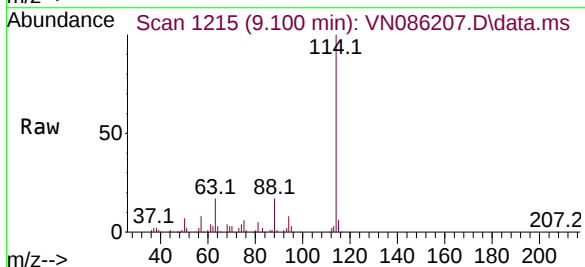
Tgt Ion: 114 Resp: 197601

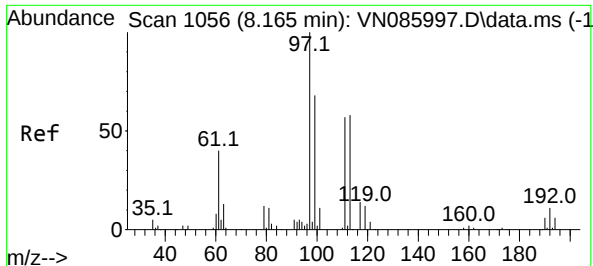
Ion Ratio Lower Upper

114 100

63 17.2 0.0 39.6

88 17.4 0.0 32.6





#35

Dibromofluoromethane

Concen: 46.532 ug/l

RT: 8.165 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086207.D

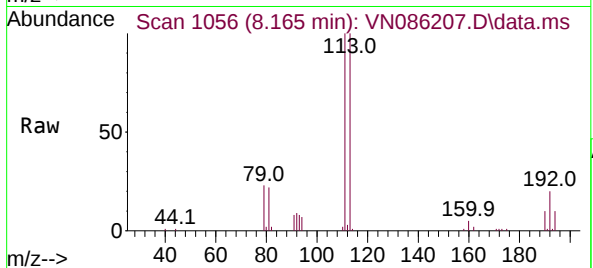
Acq: 02 Apr 2025 14:43

Instrument :

MSVOA_N

ClientSampleId :

PB167409TB



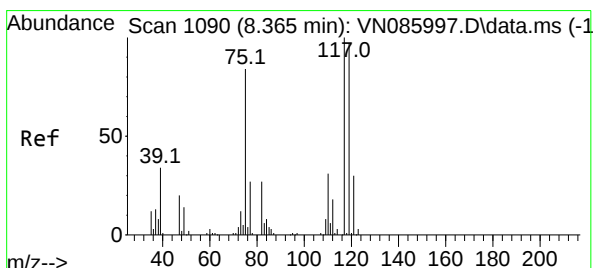
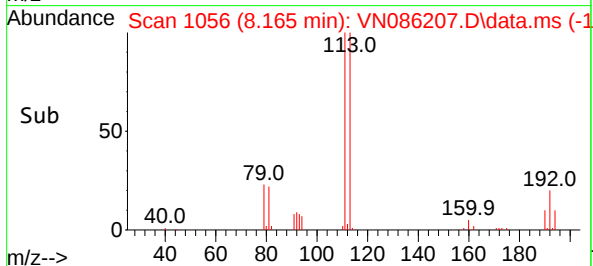
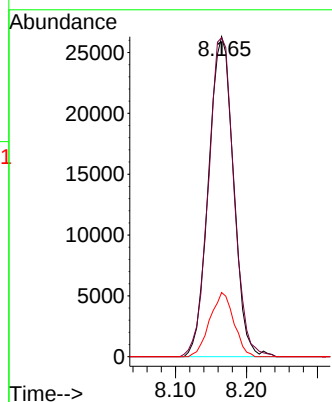
Tgt Ion:113 Resp: 64178

Ion Ratio Lower Upper

113 100

111 101.4 81.8 122.8

192 19.2 15.9 23.9



#36

1,1-Dichloropropene

Concen: 4.748 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086207.D

Acq: 02 Apr 2025 14:43

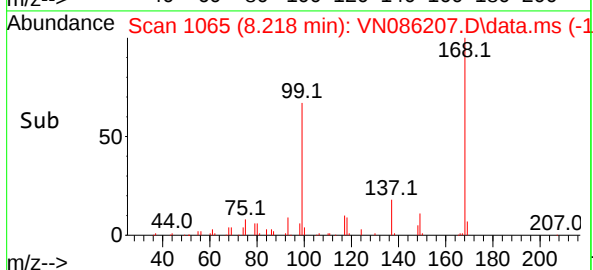
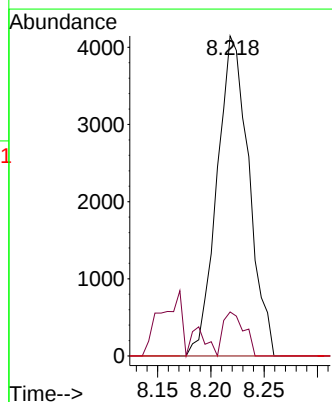
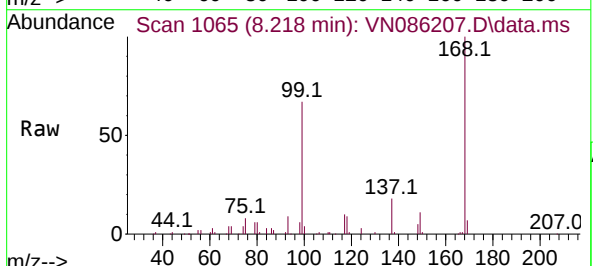
Tgt Ion: 75 Resp: 8622

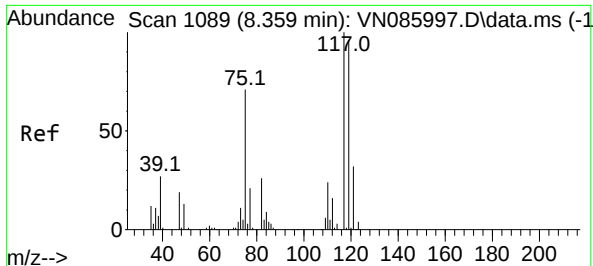
Ion Ratio Lower Upper

75 100

110 9.1 17.8 53.3#

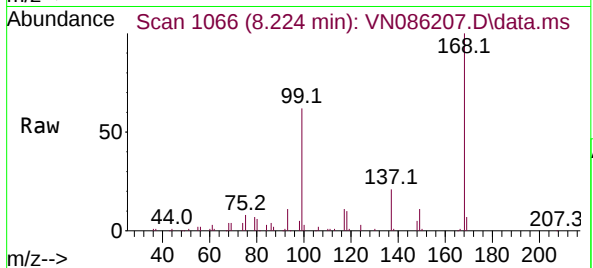
77 0.0 25.0 37.4#



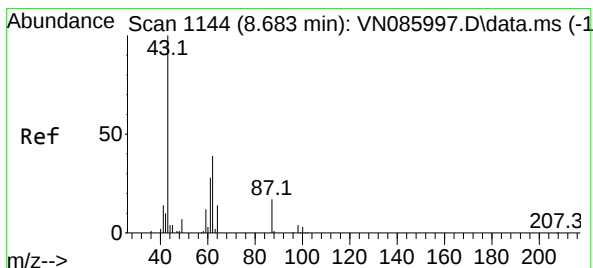
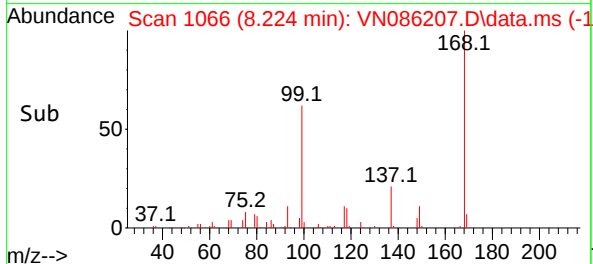
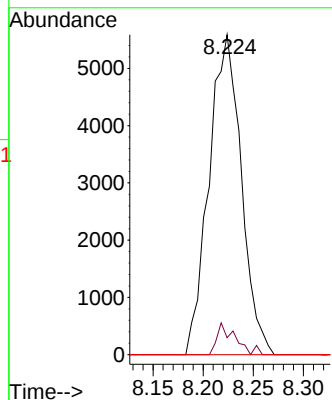


#38
Carbon Tetrachloride
Concen: 5.244 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN086207.D
Acq: 02 Apr 2025 14:43

Instrument :
MSVOA_N
ClientSampleId :
PB167409TB

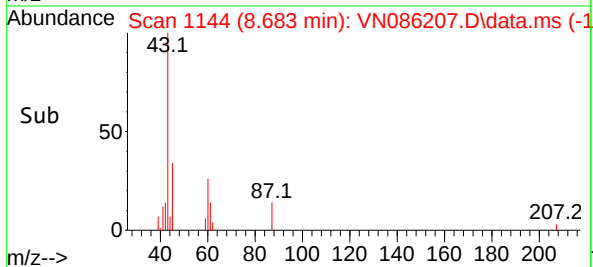
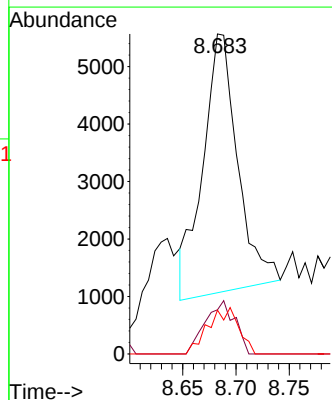
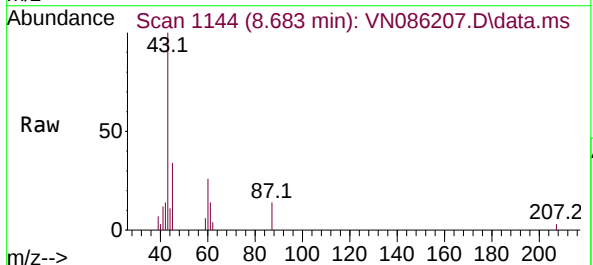


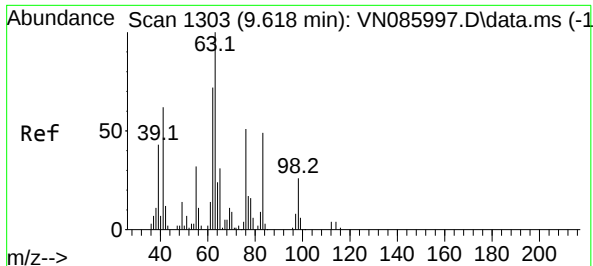
Tgt Ion:117 Resp: 12523
Ion Ratio Lower Upper
117 100
119 5.3 77.0 115.4#
121 0.0 25.6 38.4#



#43
Isopropyl Acetate
Concen: 3.090 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086207.D
Acq: 02 Apr 2025 14:43

Tgt Ion: 43 Resp: 10258
Ion Ratio Lower Upper
43 100
61 17.3 25.0 37.6#
87 15.7 13.0 19.4





#45

1,2-Dichloropropane

Concen: 0.451 ug/l

RT: 9.736 min Scan# 11

Delta R.T. 0.118 min

Lab File: VN086207.D

Acq: 02 Apr 2025 14:43

Instrument :

MSVOA_N

ClientSampleId :

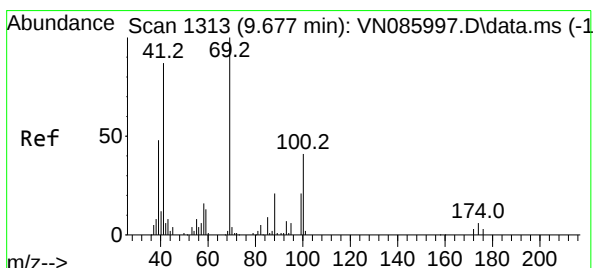
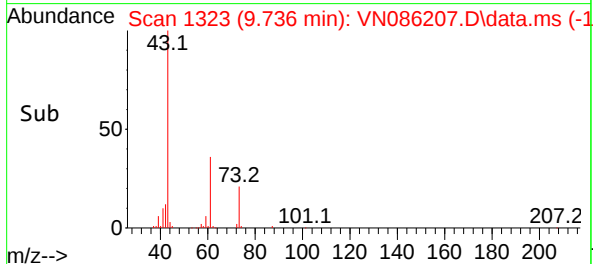
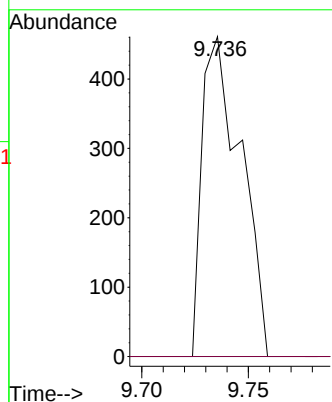
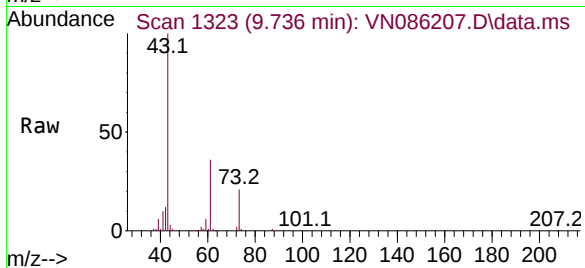
PB167409TB

Tgt Ion: 63 Resp: 585

Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#



#48

Methyl methacrylate

Concen: 31.363 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.065 min

Lab File: VN086207.D

Acq: 02 Apr 2025 14:43

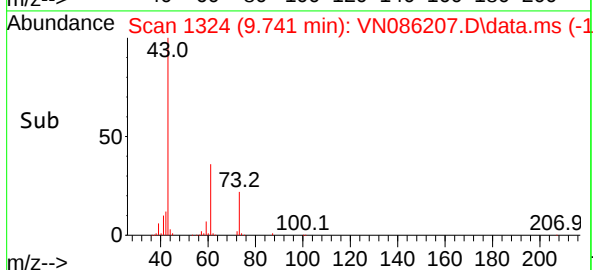
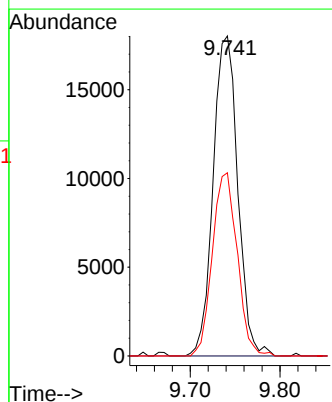
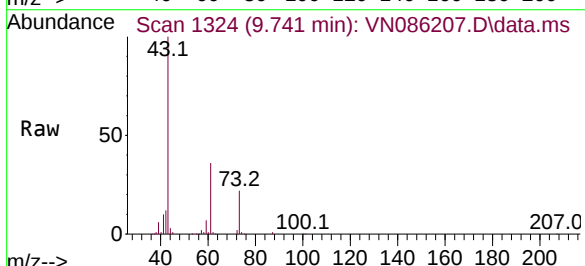
Tgt Ion: 41 Resp: 34361

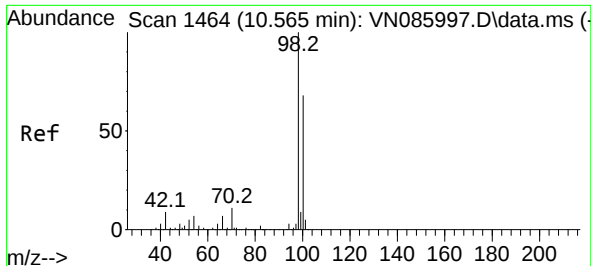
Ion Ratio Lower Upper

41 100

69 0.0 83.1 124.7#

39 57.8 45.6 68.4

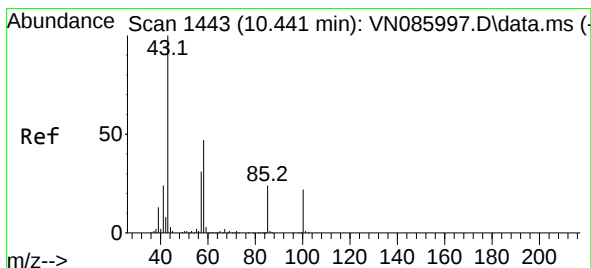
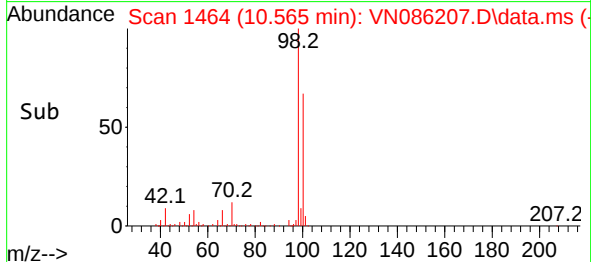
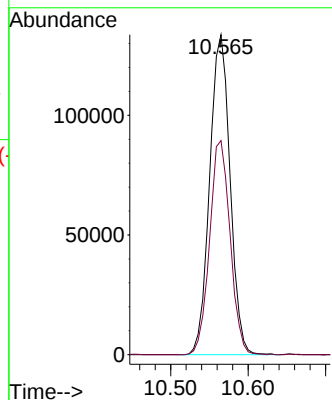
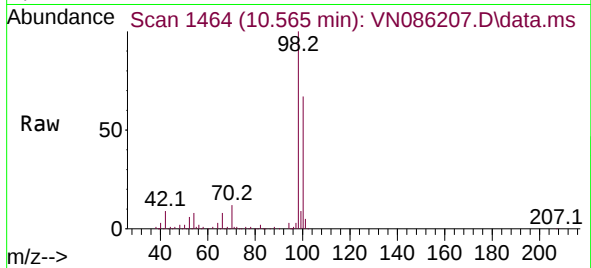




#50
Toluene-d8
Concen: 48.824 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086207.D
Acq: 02 Apr 2025 14:43

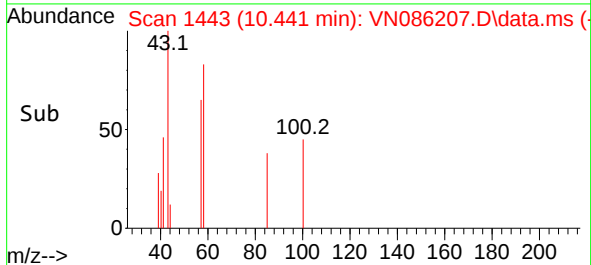
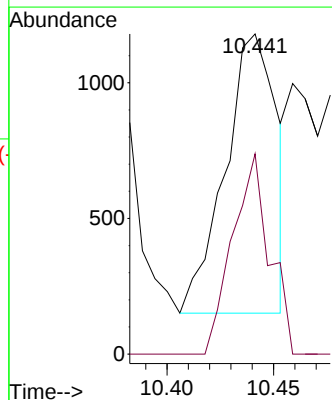
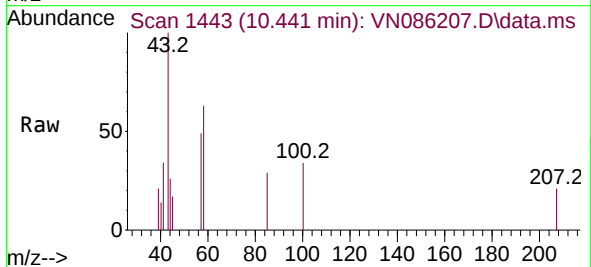
Instrument :
MSVOA_N
ClientSampleId :
PB167409TB

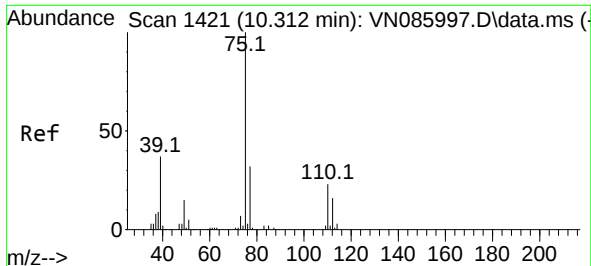
Tgt Ion: 98 Resp: 244395
Ion Ratio Lower Upper
98 100
100 67.2 53.1 79.7



#51
4-Methyl-2-Pentanone
Concen: 1.184 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086207.D
Acq: 02 Apr 2025 14:43

Tgt Ion: 43 Resp: 1733
Ion Ratio Lower Upper
43 100
58 51.5 37.4 56.0

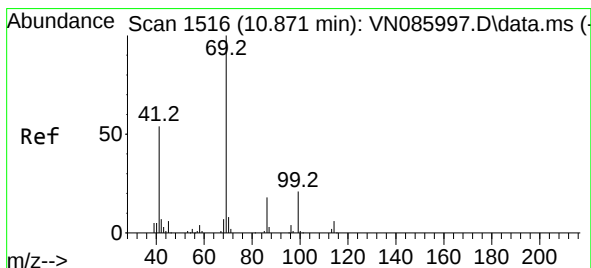
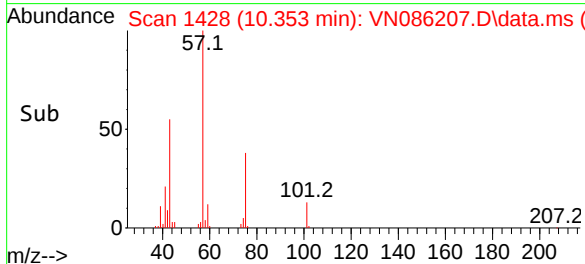
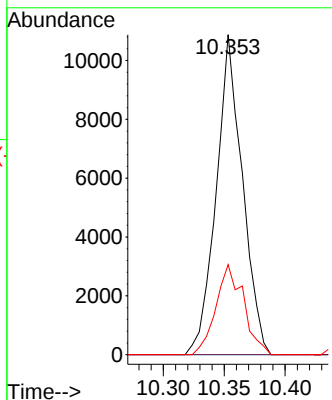
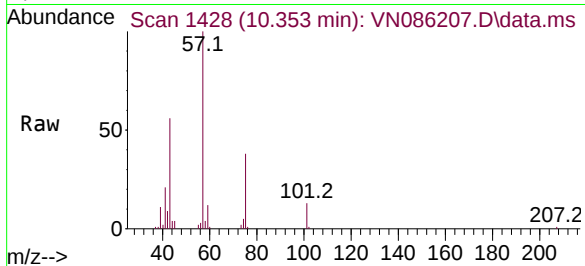




#54
cis-1,3-Dichloropropene
Concen: 7.466 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.041 min
Lab File: VN086207.D
Acq: 02 Apr 2025 14:43

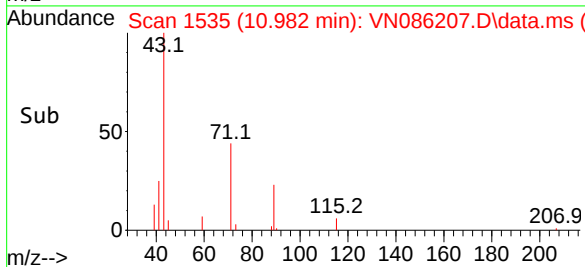
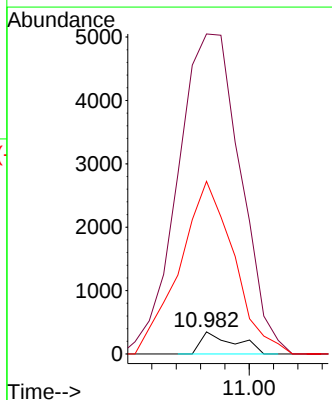
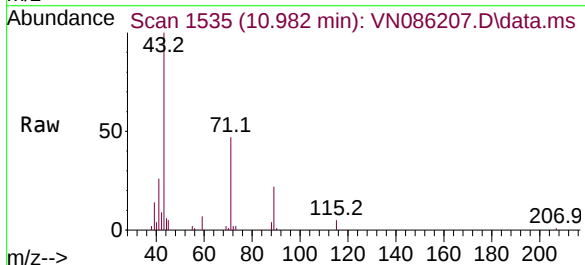
Instrument :
MSVOA_N
ClientSampleId :
PB167409TB

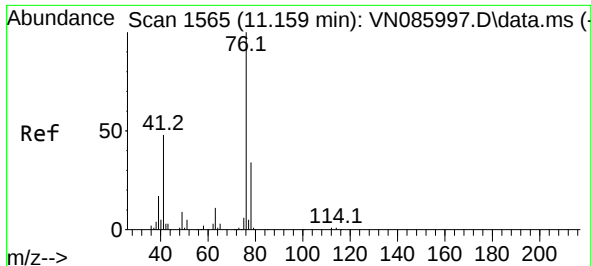
Tgt Ion:	75	Resp:	16305
Ion	Ratio	Lower	Upper
75	100		
77	0.0	25.3	37.9#
39	28.1	29.6	44.4#



#56
Ethyl methacrylate
Concen: 0.385 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.111 min
Lab File: VN086207.D
Acq: 02 Apr 2025 14:43

Tgt Ion:	69	Resp:	333
Ion	Ratio	Lower	Upper
69	100		
41	2721.9	41.6	62.4#
39	1273.3	21.8	32.8#





#57

1,3-Dichloropropane

Concen: 0.649 ug/l

RT: 11.200 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN086207.D

Acq: 02 Apr 2025 14:43

Instrument :

MSVOA_N

ClientSampleId :

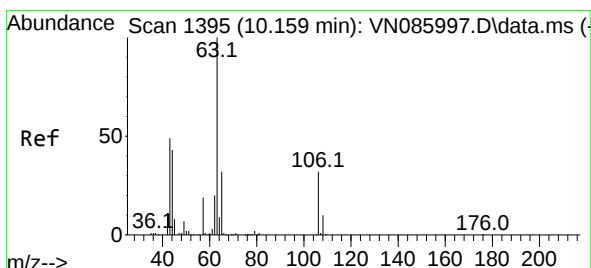
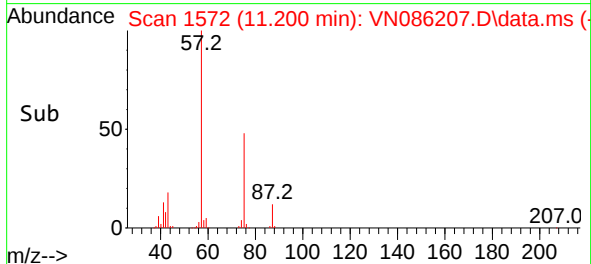
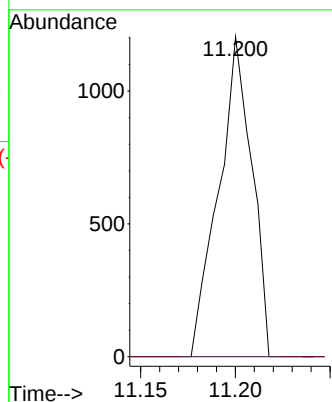
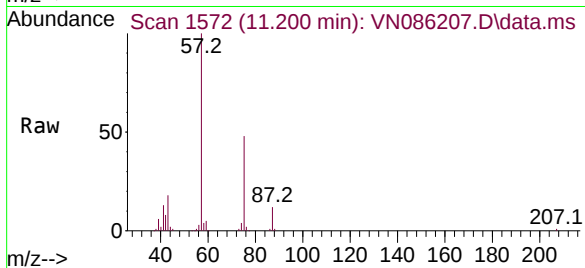
PB167409TB

Tgt Ion: 76 Resp: 1472

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#58

2-Chloroethyl Vinyl ether

Concen: 4.162 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN086207.D

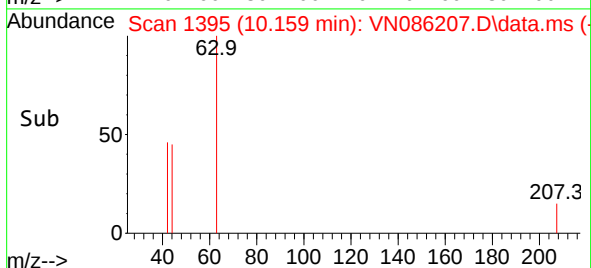
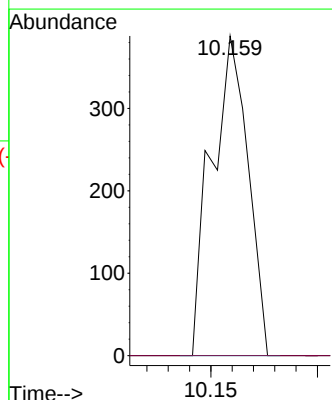
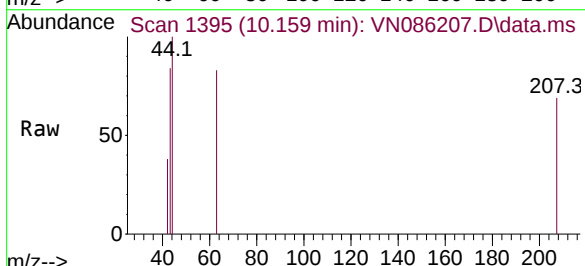
Acq: 02 Apr 2025 14:43

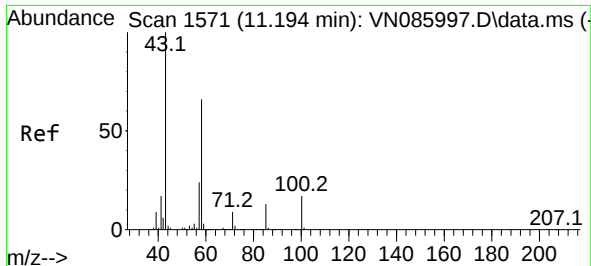
Tgt Ion: 63 Resp: 464

Ion Ratio Lower Upper

63 100

106 0.0 25.0 37.6#

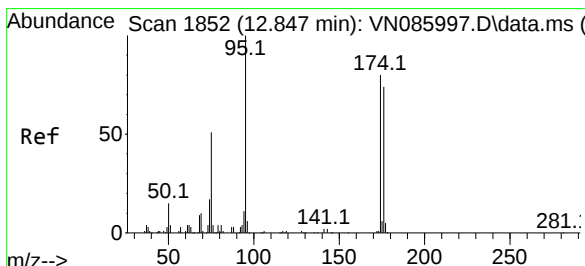
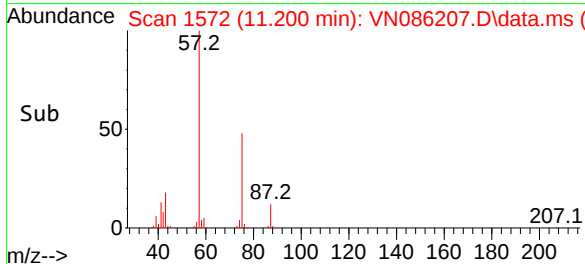
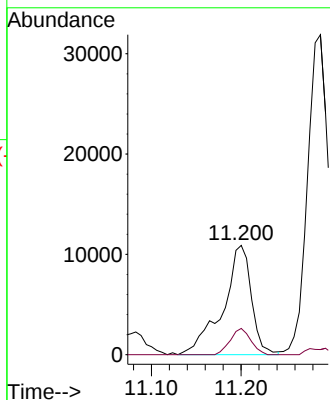
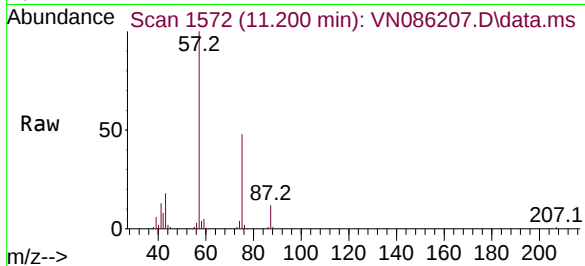




#59
2-Hexanone
Concen: 22.601 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086207.D
Acq: 02 Apr 2025 14:43

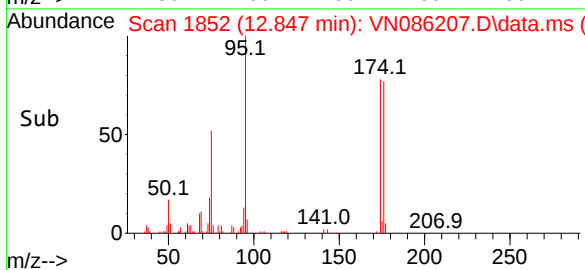
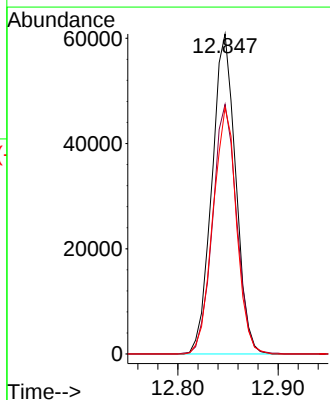
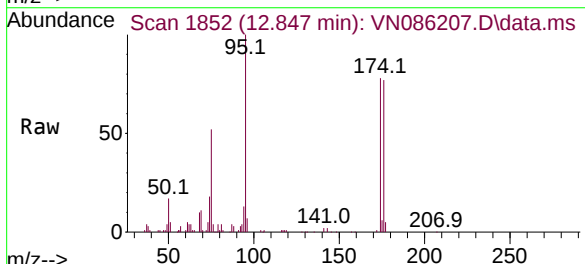
Instrument :
MSVOA_N
ClientSampleId :
PB167409TB

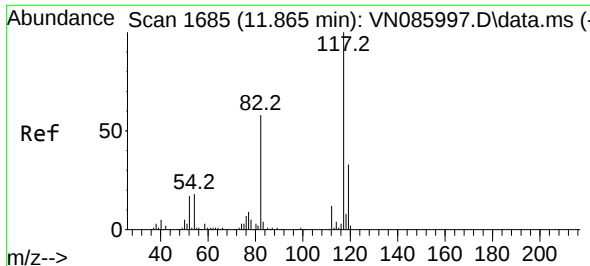
Tgt Ion: 43 Resp: 24108
Ion Ratio Lower Upper
43 100
58 17.2 32.4 97.2#



#62
4-Bromofluorobenzene
Concen: 56.026 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086207.D
Acq: 02 Apr 2025 14:43

Tgt Ion: 95 Resp: 100016
Ion Ratio Lower Upper
95 100
174 78.8 0.0 156.8
176 76.5 0.0 152.2

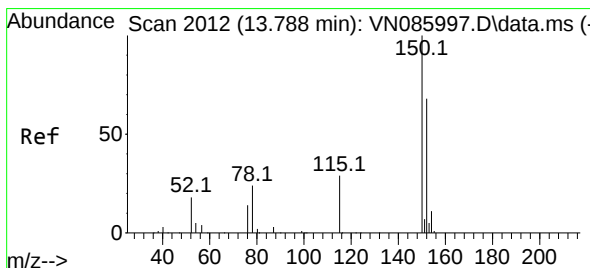
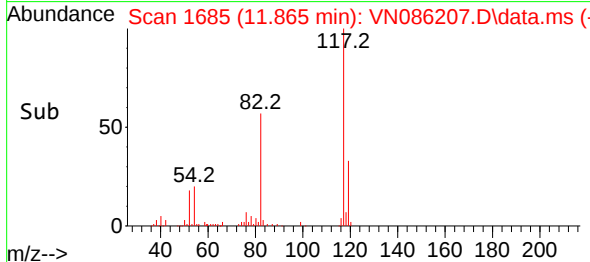
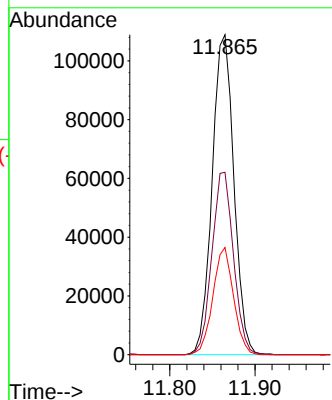
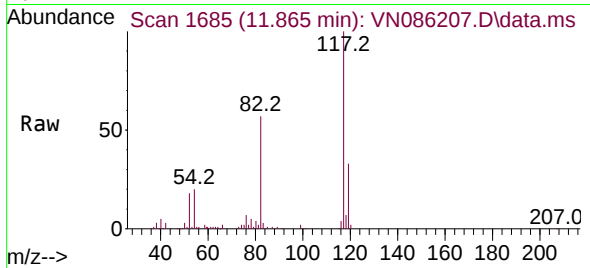




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN086207.D
Acq: 02 Apr 2025 14:43

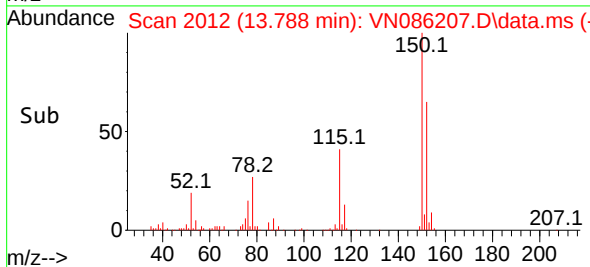
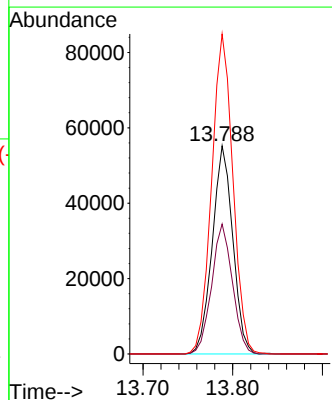
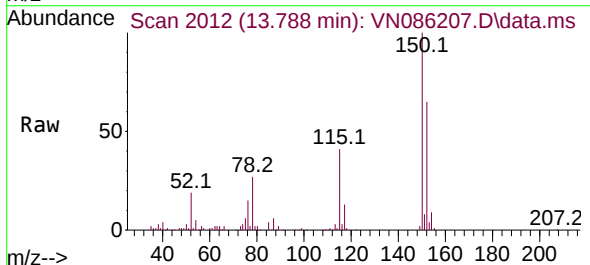
Instrument :
MSVOA_N
ClientSampleId :
PB167409TB

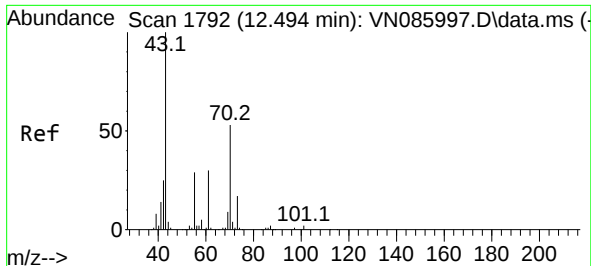
Tgt Ion:117 Resp: 192823
Ion Ratio Lower Upper
117 100
82 57.0 46.7 70.1
119 33.5 26.5 39.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086207.D
Acq: 02 Apr 2025 14:43

Tgt Ion:152 Resp: 87735
Ion Ratio Lower Upper
152 100
115 63.2 31.1 93.2
150 158.9 0.0 359.6

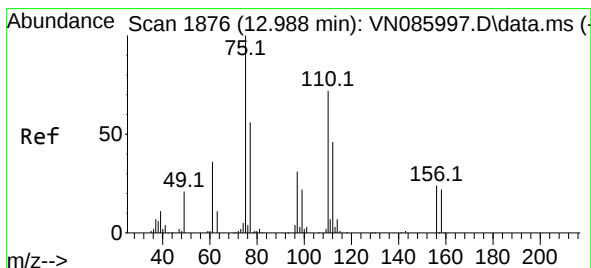
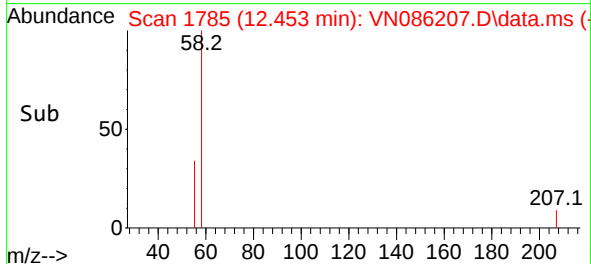
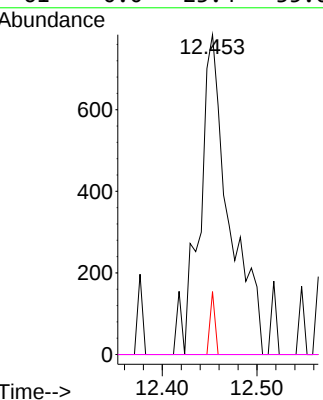
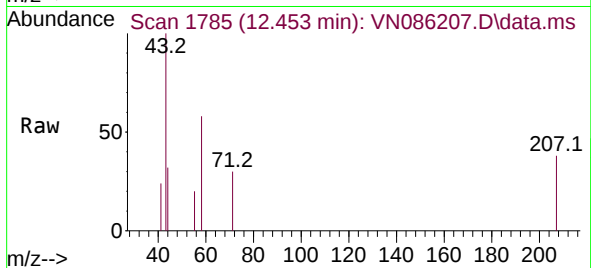




#74
N-amy1 acetate
Concen: 0.855 ug/l
RT: 12.453 min Scan# 1714
Delta R.T. -0.041 min
Lab File: VN086207.D
Acq: 02 Apr 2025 14:43

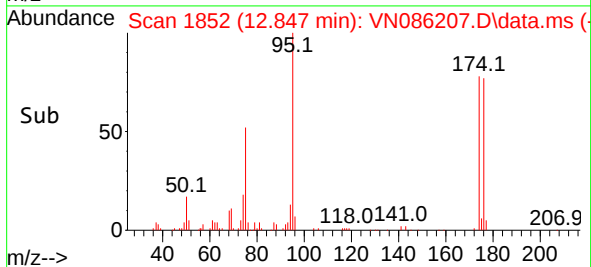
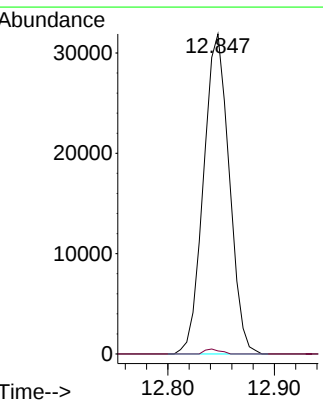
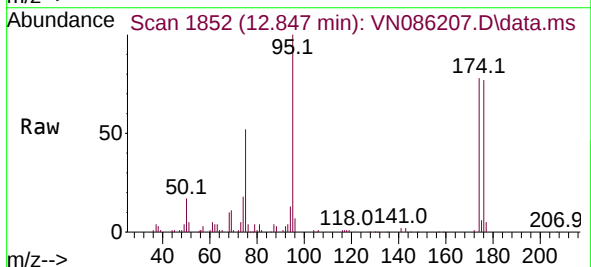
Instrument :
MSVOA_N
ClientSampleId :
PB167409TB

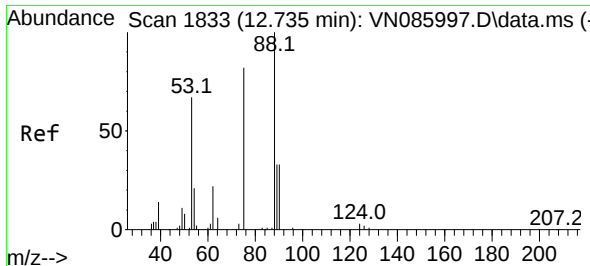
Tgt Ion:	43	Resp:	1714
Ion	Ratio	Lower	Upper
43	100		
70	0.0	43.0	64.4#
55	3.2	23.8	35.8#
61	0.0	23.4	35.0#



#76
1,2,3-Trichloropropane
Concen: 27.202 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086207.D
Acq: 02 Apr 2025 14:43

Tgt Ion:	75	Resp:	53431
Ion	Ratio	Lower	Upper
75	100		
77	0.9	83.7	251.0#

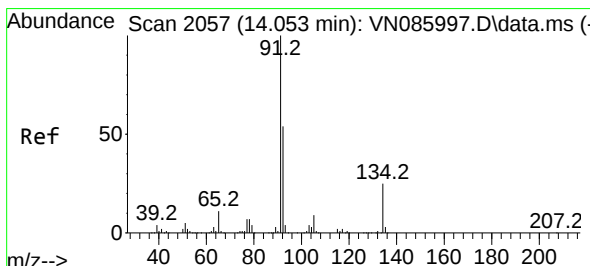
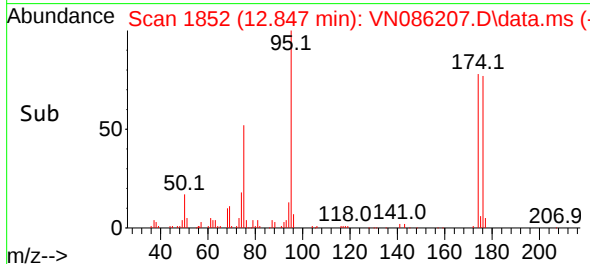
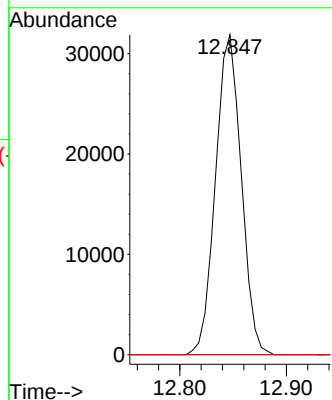
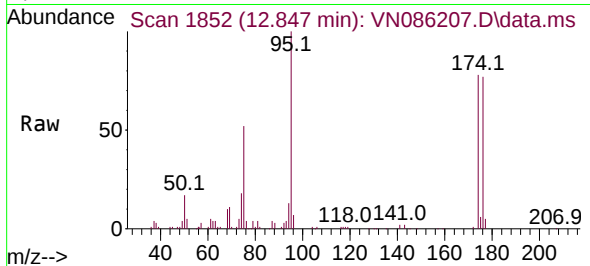




#81
trans-1,4-Dichloro-2-butene
Concen: 71.918 ug/l
RT: 12.847 min Scan# 1833
Delta R.T. 0.112 min
Lab File: VN086207.D
Acq: 02 Apr 2025 14:43

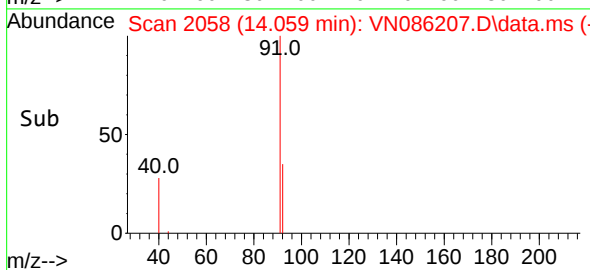
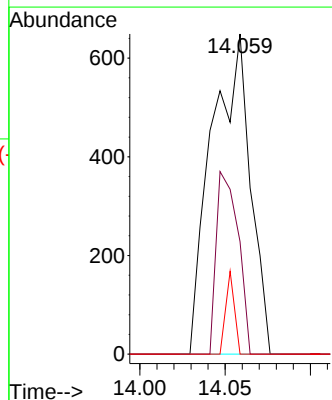
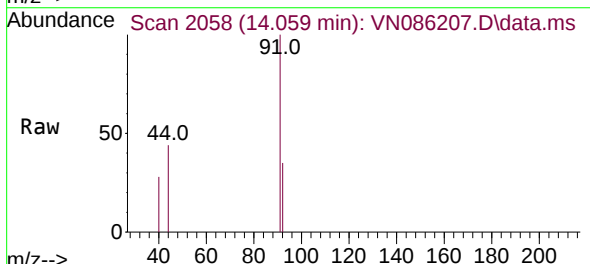
Instrument :
MSVOA_N
ClientSampleId :
PB167409TB

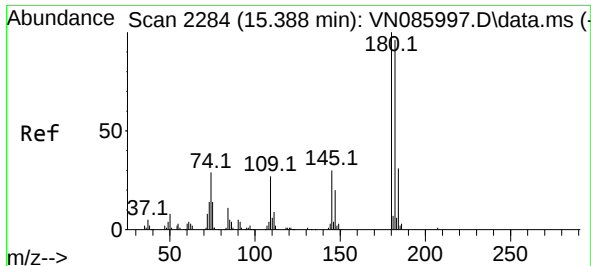
Tgt Ion: 75 Resp: 53431
Ion Ratio Lower Upper
75 100
53 0.0 66.0 99.0#
89 0.0 36.9 55.3#



#89
n-Butylbenzene
Concen: 0.263 ug/l
RT: 14.059 min Scan# 2058
Delta R.T. 0.006 min
Lab File: VN086207.D
Acq: 02 Apr 2025 14:43

Tgt Ion: 91 Resp: 1024
Ion Ratio Lower Upper
91 100
92 32.1 26.9 80.6
134 5.8 13.0 39.0#

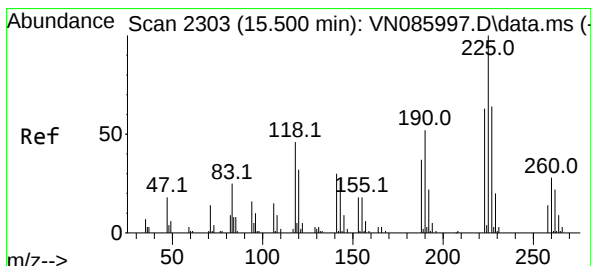
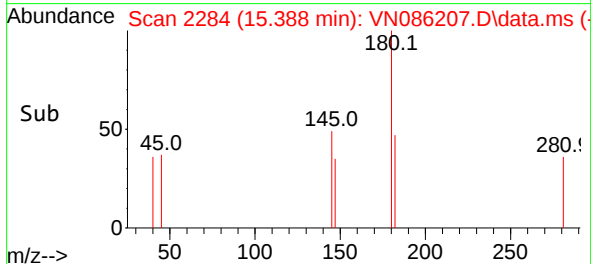
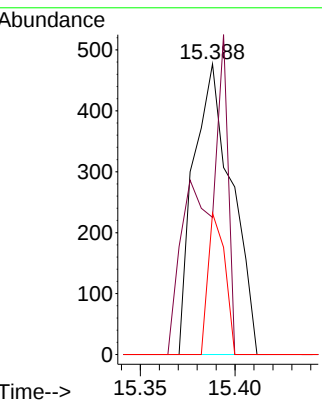
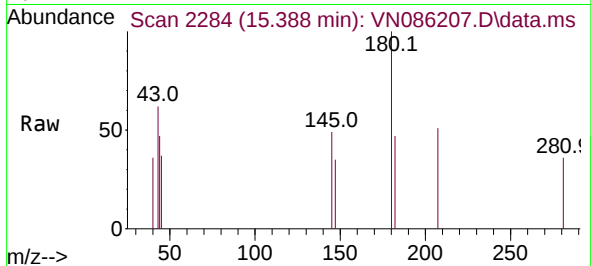




#93
 1,2,4-Trichlorobenzene
 Concen: 0.442 ug/l
 RT: 15.388 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN086207.D
 Acq: 02 Apr 2025 14:43

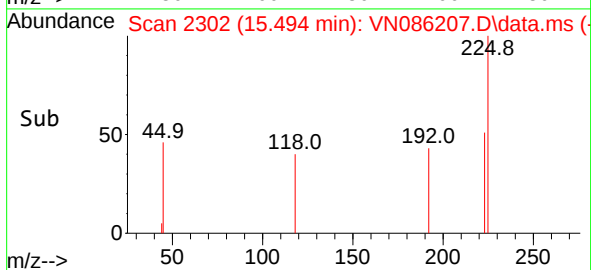
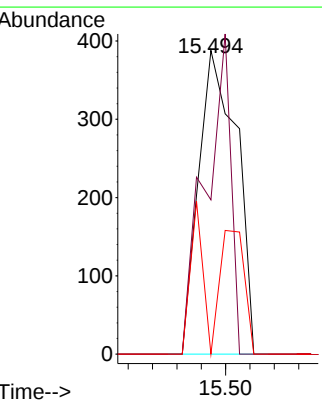
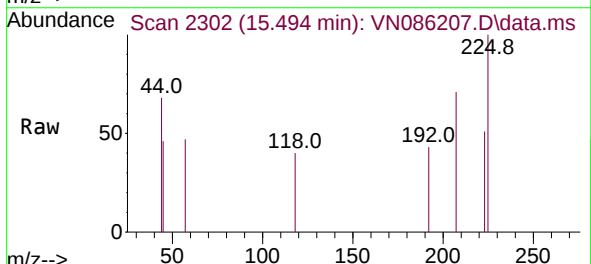
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167409TB

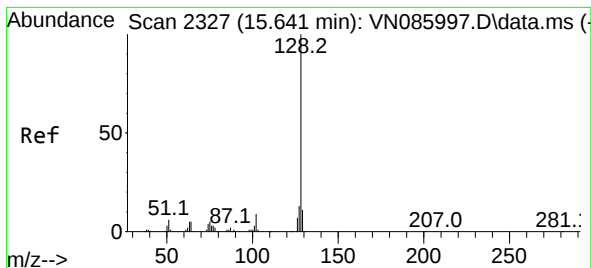
Tgt Ion:180 Resp: 666
 Ion Ratio Lower Upper
 180 100
 182 77.0 47.0 141.0
 145 21.6 15.5 46.5



#94
 Hexachlorobutadiene
 Concen: 0.479 ug/l
 RT: 15.494 min Scan# 2302
 Delta R.T. -0.006 min
 Lab File: VN086207.D
 Acq: 02 Apr 2025 14:43

Tgt Ion:225 Resp: 418
 Ion Ratio Lower Upper
 225 100
 223 70.3 31.3 93.9
 227 26.6 32.1 96.3#





#95

Naphthalene

Concen: 0.565 ug/l

RT: 15.641 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN086207.D

Acq: 02 Apr 2025 14:43

Instrument :

MSVOA_N

ClientSampleId :

PB167409TB

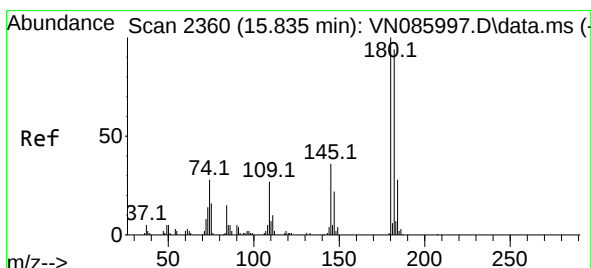
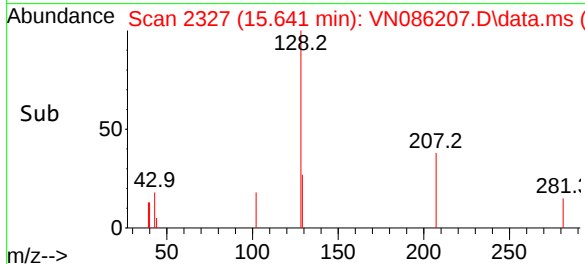
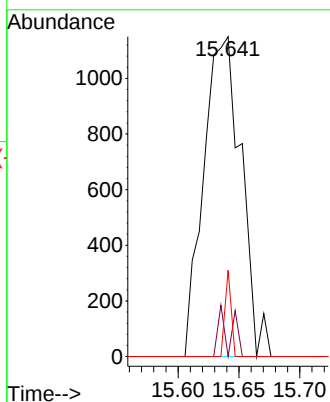
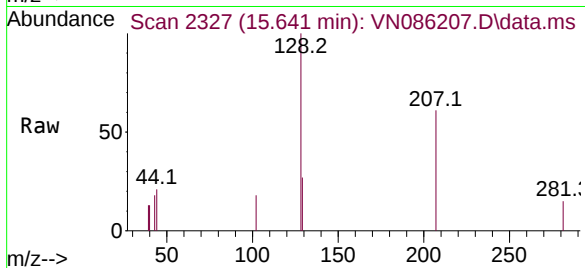
Tgt Ion:128 Resp: 2463

Ion Ratio Lower Upper

128 100

127 5.0 10.2 15.4#

129 4.4 9.0 13.6#



#96

1,2,3-Trichlorobenzene

Concen: 0.497 ug/l

RT: 15.829 min Scan# 2359

Delta R.T. -0.006 min

Lab File: VN086207.D

Acq: 02 Apr 2025 14:43

Tgt Ion:180 Resp: 710

Ion Ratio Lower Upper

180 100

182 84.5 47.5 142.5

145 8.9 17.7 53.1#

