

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093025\
 Data File : VN087990.D
 Acq On : 30 Sep 2025 09:34
 Operator : JC\MD
 Sample : VN0930MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0930MBL01

Quant Time: Oct 01 04:37:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N092325W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 05:05:30 2025
 Response via : Initial Calibration

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

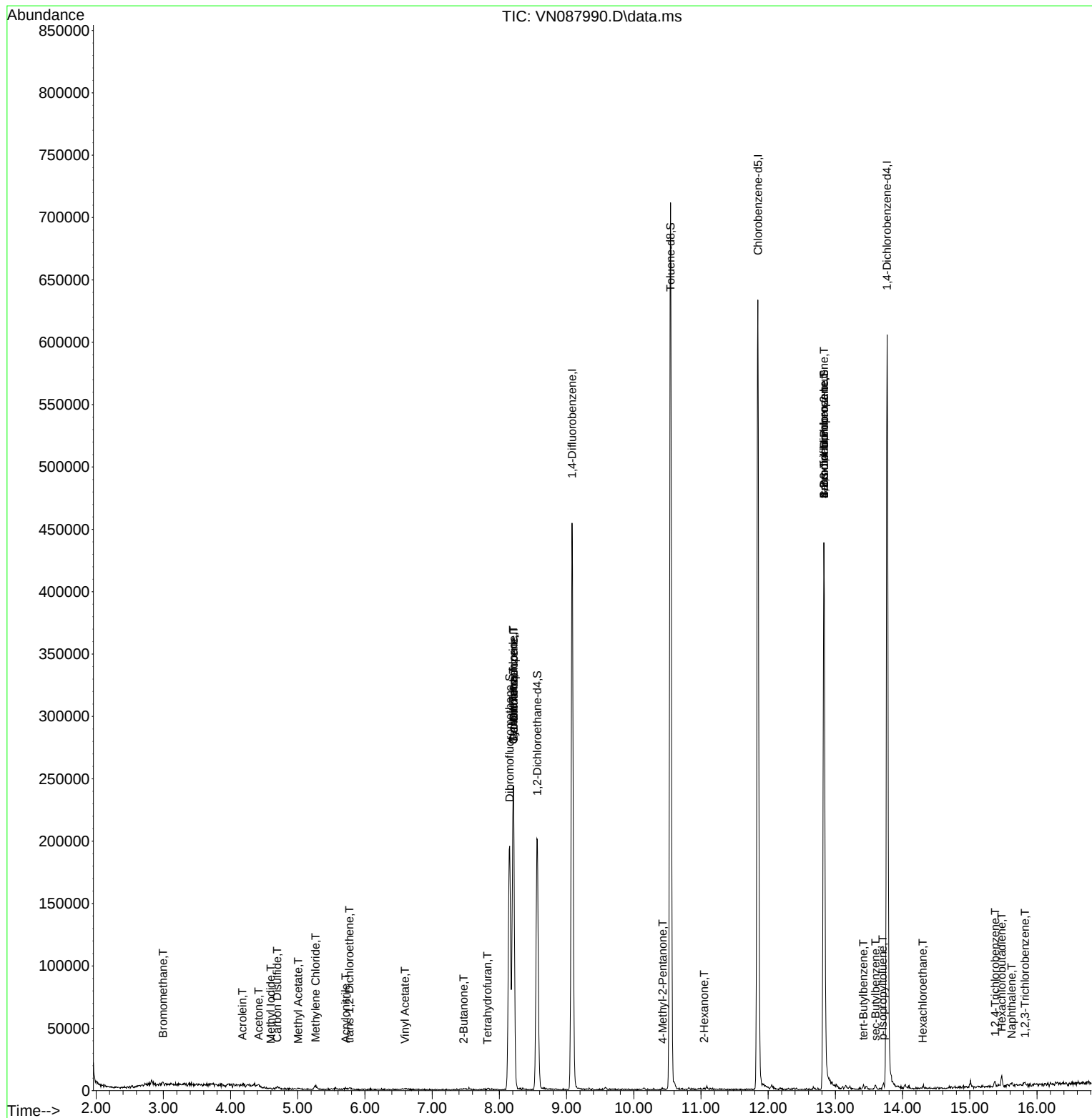
Internal Standards						
1) Pentafluorobenzene	8.212	168	170539	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	373612	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	361092	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	166166	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	167479	58.354	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 116.700%			
35) Dibromofluoromethane	8.153	113	141809	52.277	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.560%			
50) Toluene-d8	10.547	98	475250	49.820	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.640%			
62) 4-Bromofluorobenzene	12.829	95	157491	46.188	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 92.380%			
Target Compounds						Qvalue
5) Bromomethane	2.995	94	582	0.455	ug/l	97
10) Methyl Iodide	4.600	142	339	0.212	ug/l #	40
13) Acrolein	4.177	56	391	0.737	ug/l #	56
15) Acrylonitrile	5.712	53	708	0.546	ug/l #	67
16) Acetone	4.418	43	1181	1.000	ug/l	94
17) Carbon Disulfide	4.694	76	2726	0.487	ug/l #	76
18) Methyl Acetate	5.006	43	703	0.238	ug/l #	51
20) Methylene Chloride	5.265	84	1816	0.760	ug/l #	59
21) trans-1,2-Dichloroethene	5.771	96	1035	0.471	ug/l #	42
23) Vinyl Acetate	6.594	43	1425	0.249	ug/l #	72
25) 2-Butanone	7.471	43	497	0.275	ug/l #	48
29) Tetrahydrofuran	7.824	42	288	0.249	ug/l #	52
31) Cyclohexane	8.206	56	5775	1.794	ug/l #	46
36) 1,1-Dichloropropene	8.212	75	14429	4.424	ug/l #	52
38) Carbon Tetrachloride	8.206	117	19177	5.124	ug/l #	18
51) 4-Methyl-2-Pentanone	10.429	43	1288	0.306	ug/l #	36
59) 2-Hexanone	11.047	43	653	0.235	ug/l	80
71) Bromoform	12.829	173	1951	0.868	ug/l #	29
76) 1,2,3-Trichloropropane	12.829	75	86230	26.326	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	86230	73.103	ug/l #	9
83) tert-Butylbenzene	13.417	119	1717	0.228	ug/l #	78
85) sec-Butylbenzene	13.600	105	2526	0.229	ug/l #	65
86) p-Isopropyltoluene	13.706	119	1888	0.202	ug/l #	70
90) Hexachloroethane	14.300	117	483	0.247	ug/l #	54
93) 1,2,4-Trichlorobenzene	15.376	180	1370	0.450	ug/l	97
94) Hexachlorobutadiene	15.476	225	1270	1.134	ug/l	86
95) Naphthalene	15.623	128	3063	0.314	ug/l #	85
96) 1,2,3-Trichlorobenzene	15.823	180	1692	0.572	ug/l #	20

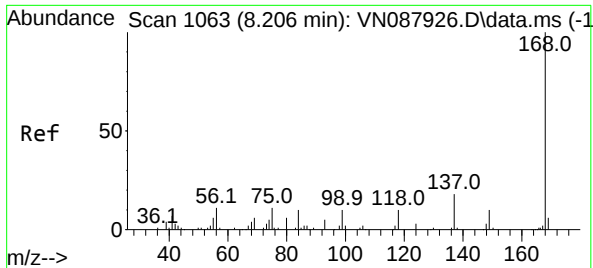
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
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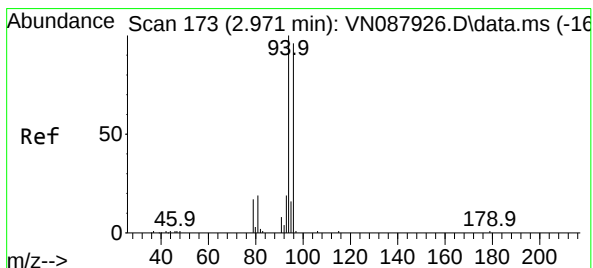
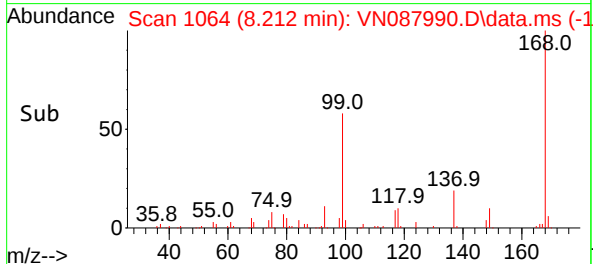
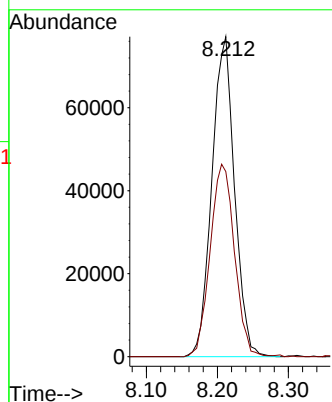
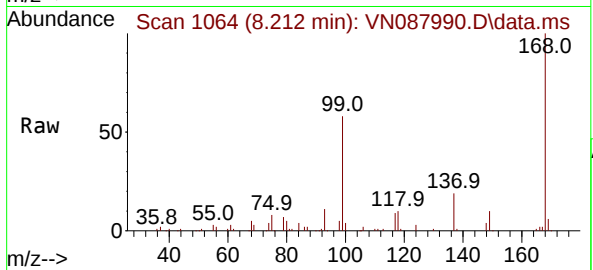




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087990.D
Acq: 30 Sep 2025 09:34

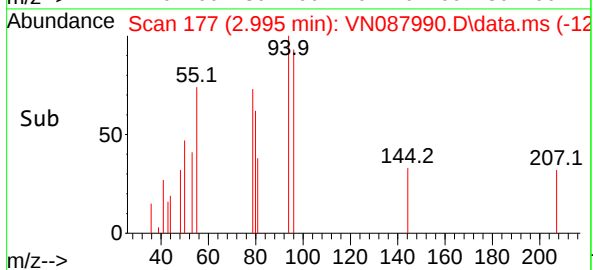
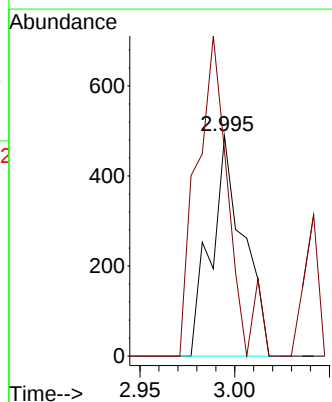
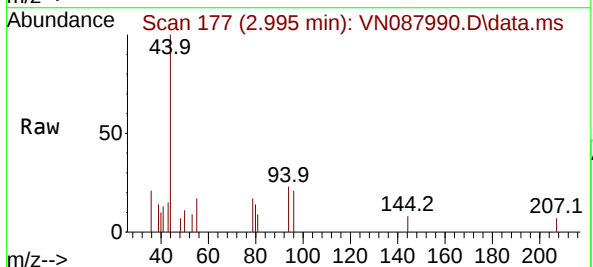
Instrument :
MSVOA_N
ClientSampleId :
VN0930MBL01

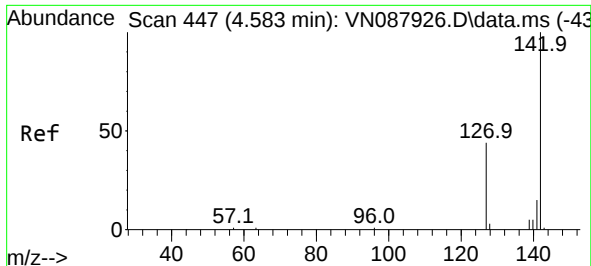
Tgt Ion:168 Resp: 170539
Ion Ratio Lower Upper
168 100
99 57.9 52.2 78.2



#5
Bromomethane
Concen: 0.455 ug/l
RT: 2.995 min Scan# 177
Delta R.T. 0.023 min
Lab File: VN087990.D
Acq: 30 Sep 2025 09:34

Tgt Ion: 94 Resp: 582
Ion Ratio Lower Upper
94 100
96 93.0 76.8 115.2

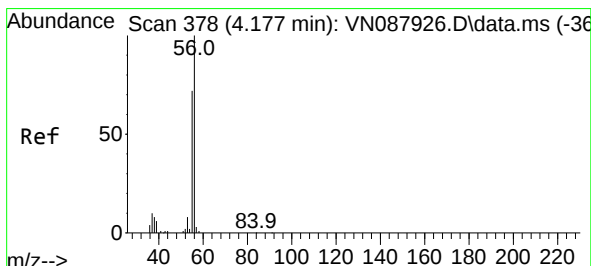
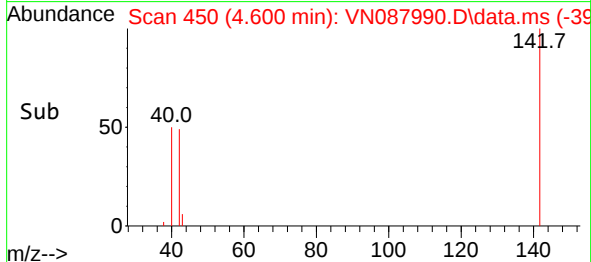
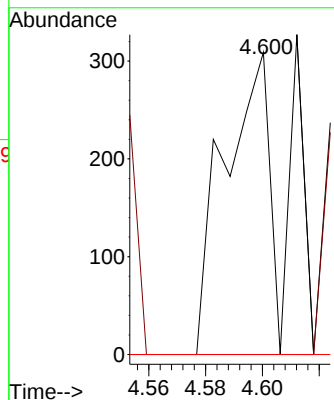
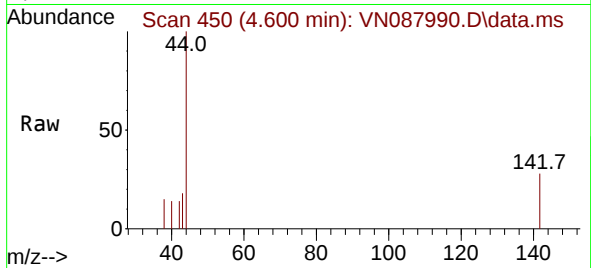




#10
Methyl Iodide
Concen: 0.212 ug/l
RT: 4.600 min Scan# 41
Delta R.T. 0.018 min
Lab File: VN087990.D
Acq: 30 Sep 2025 09:34

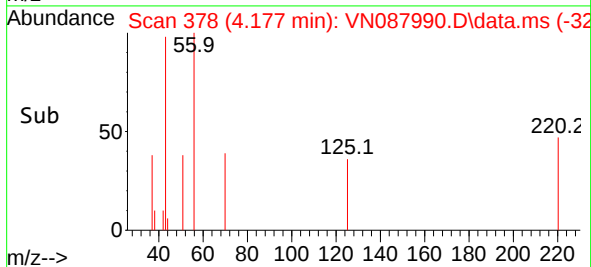
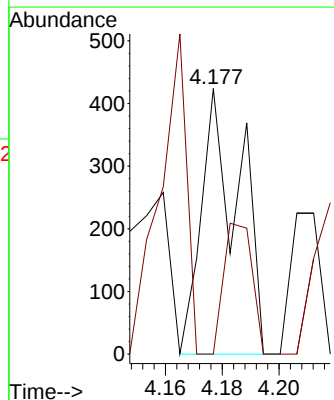
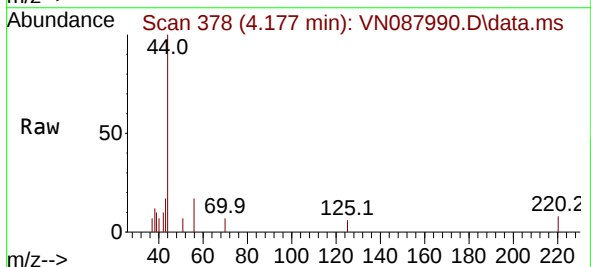
Instrument :
MSVOA_N
ClientSampleId :
VN0930MBL01

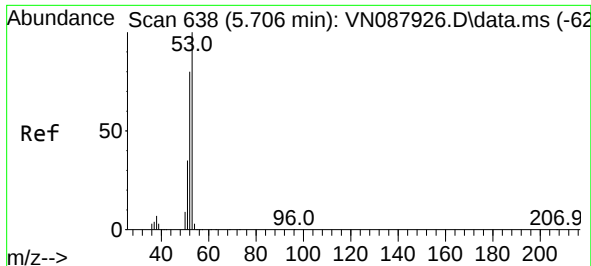
Tgt Ion:142 Resp: 339
Ion Ratio Lower Upper
142 100
127 0.0 35.3 52.9#
141 0.0 11.8 17.8#



#13
Acrolein
Concen: 0.737 ug/l
RT: 4.177 min Scan# 378
Delta R.T. -0.000 min
Lab File: VN087990.D
Acq: 30 Sep 2025 09:34

Tgt Ion: 56 Resp: 391
Ion Ratio Lower Upper
56 100
55 37.1 59.3 88.9#

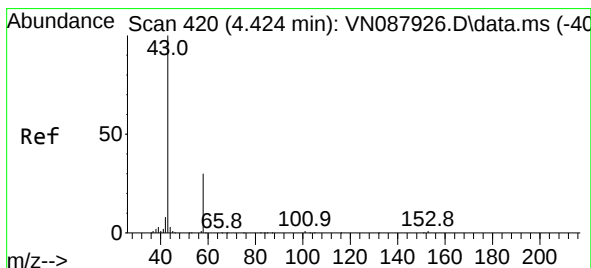
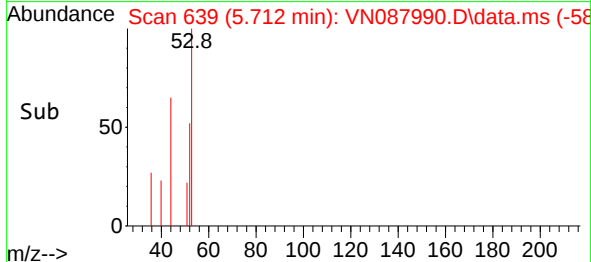
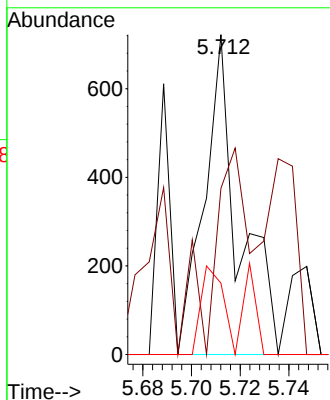
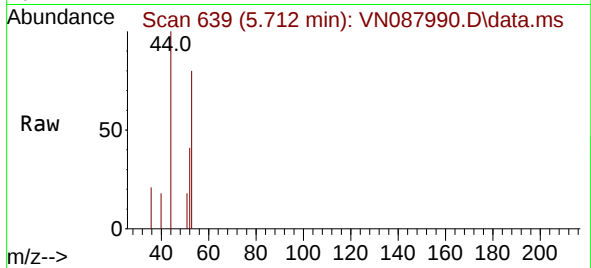




#15
Acrylonitrile
Concen: 0.546 ug/l
RT: 5.712 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN087990.D
Acq: 30 Sep 2025 09:34

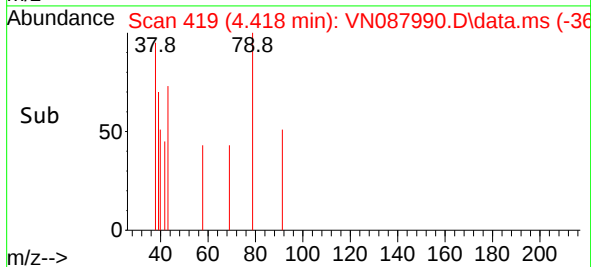
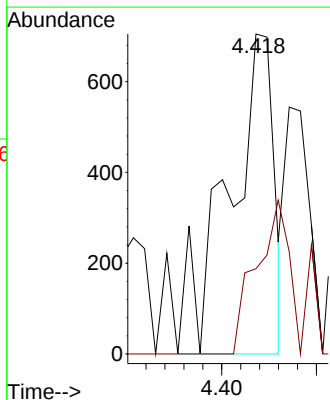
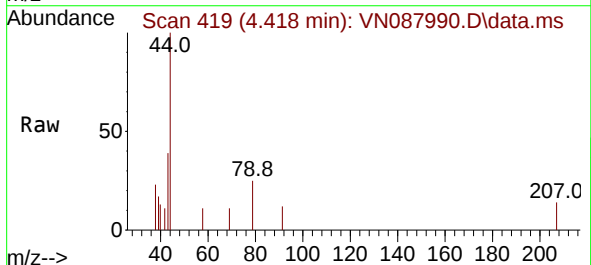
Instrument :
MSVOA_N
ClientSampleId :
VN0930MBL01

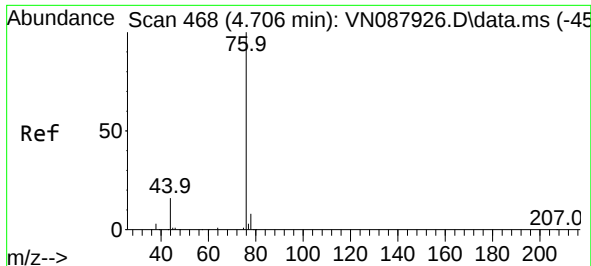
Tgt Ion: 53 Resp: 708
Ion Ratio Lower Upper
53 100
52 53.2 66.6 99.8#
51 17.9 29.0 43.4#



#16
Acetone
Concen: 1.000 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.006 min
Lab File: VN087990.D
Acq: 30 Sep 2025 09:34

Tgt Ion: 43 Resp: 1181
Ion Ratio Lower Upper
43 100
58 26.7 24.1 36.1

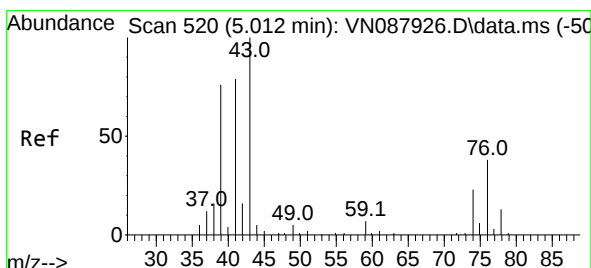
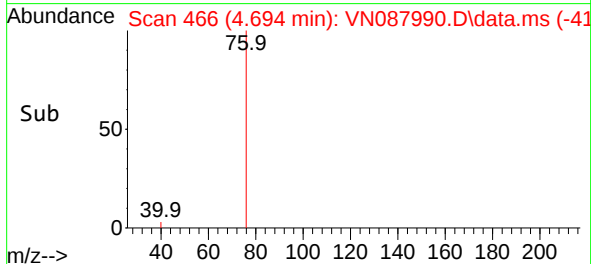
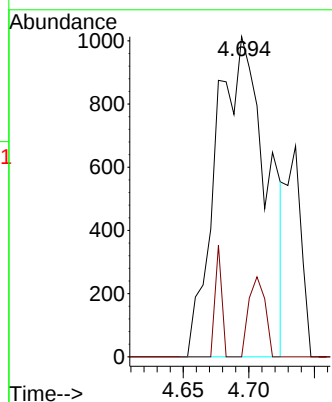
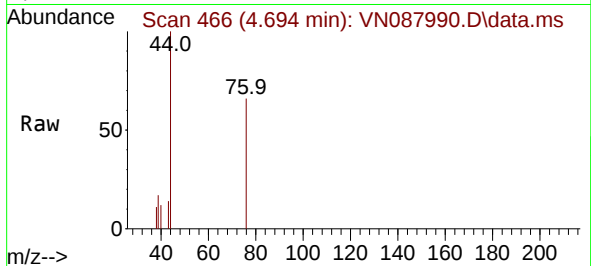




#17
Carbon Disulfide
Concen: 0.487 ug/l
RT: 4.694 min Scan# 411
Delta R.T. -0.012 min
Lab File: VN087990.D
Acq: 30 Sep 2025 09:34

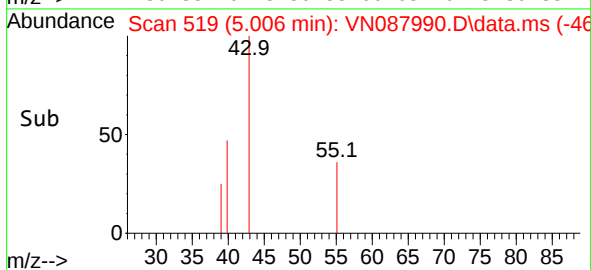
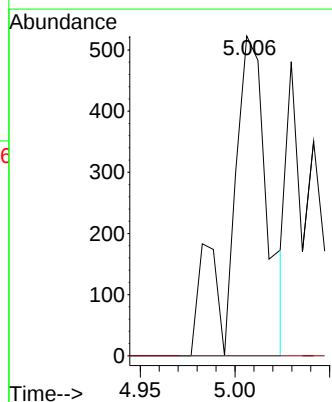
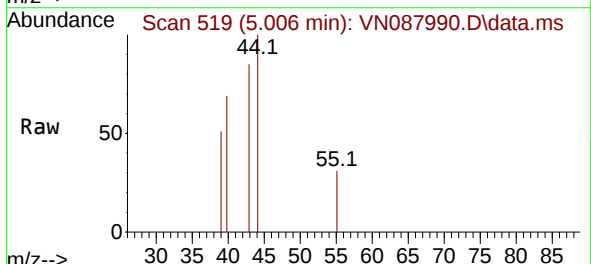
Instrument :
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ClientSampleId :
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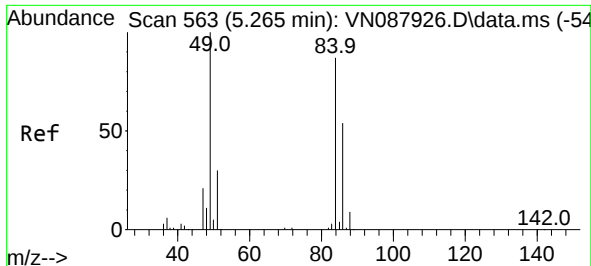
Tgt Ion: 76 Resp: 2726
Ion Ratio Lower Upper
76 100
78 0.0 6.7 10.1#



#18
Methyl Acetate
Concen: 0.238 ug/l
RT: 5.006 min Scan# 519
Delta R.T. -0.006 min
Lab File: VN087990.D
Acq: 30 Sep 2025 09:34

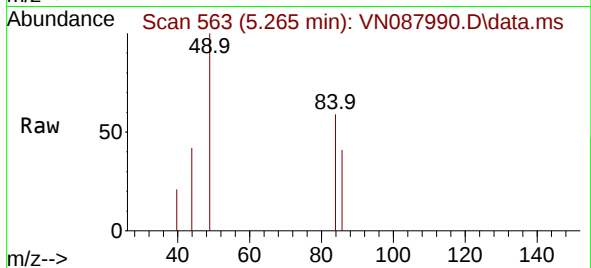
Tgt Ion: 43 Resp: 703
Ion Ratio Lower Upper
43 100
74 0.0 19.7 29.5#



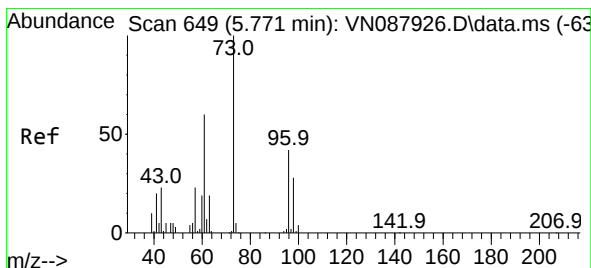
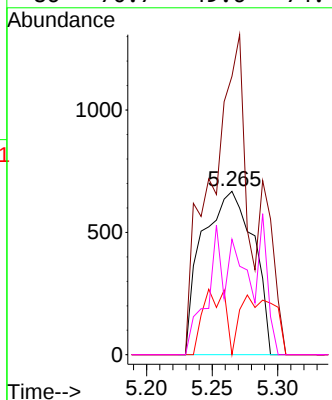
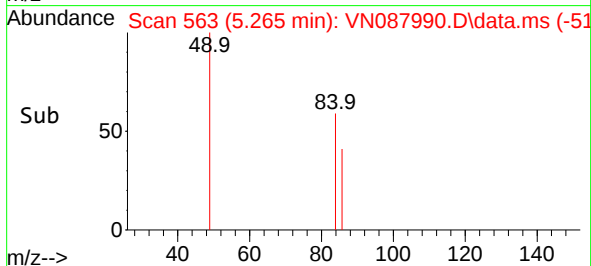


#20
Methylene Chloride
Concen: 0.760 ug/l
RT: 5.265 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN087990.D
Acq: 30 Sep 2025 09:34

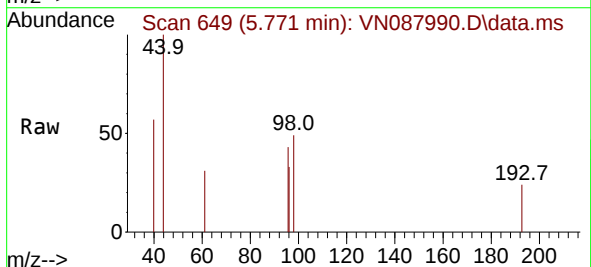
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MSVOA_N
ClientSampleId :
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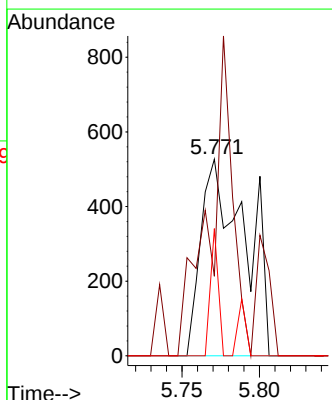
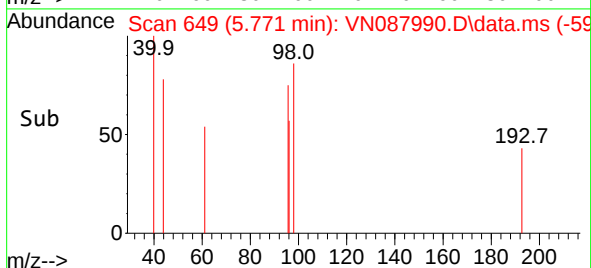
Tgt Ion:	84	Resp:	1816
Ion	Ratio	Lower	Upper
84	100		
49	170.4	92.1	138.1#
51	0.0	27.7	41.5#
86	70.7	49.6	74.4

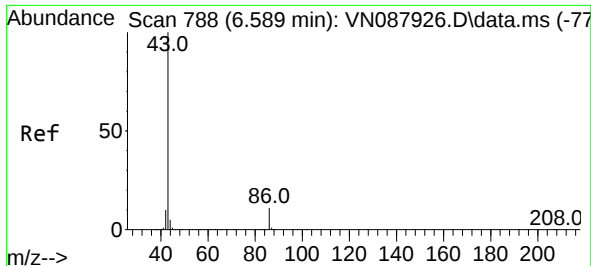


#21
trans-1,2-Dichloroethene
Concen: 0.471 ug/l
RT: 5.771 min Scan# 649
Delta R.T. -0.000 min
Lab File: VN087990.D
Acq: 30 Sep 2025 09:34



Tgt Ion:	96	Resp:	1035
Ion	Ratio	Lower	Upper
96	100		
61	40.4	114.4	171.6#
98	64.7	53.6	80.4

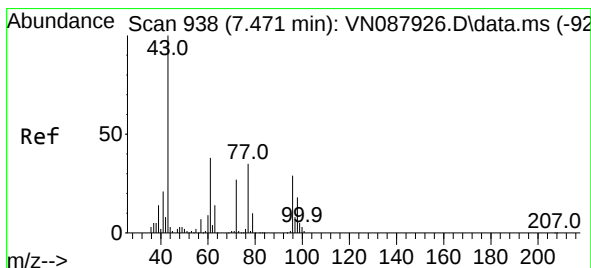
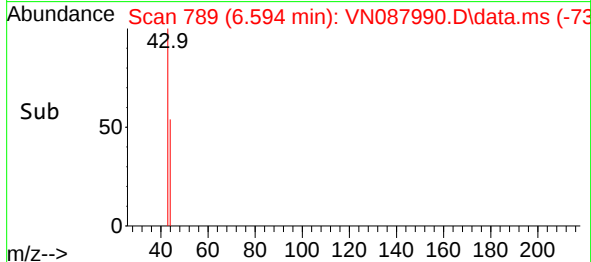
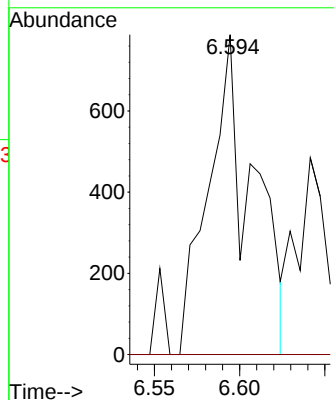
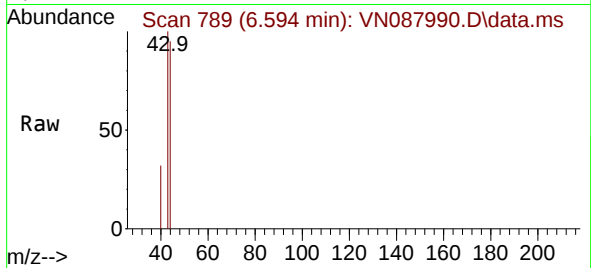




#23
 Vinyl Acetate
 Concen: 0.249 ug/l
 RT: 6.594 min Scan# 71
 Delta R.T. 0.006 min
 Lab File: VN087990.D
 Acq: 30 Sep 2025 09:34

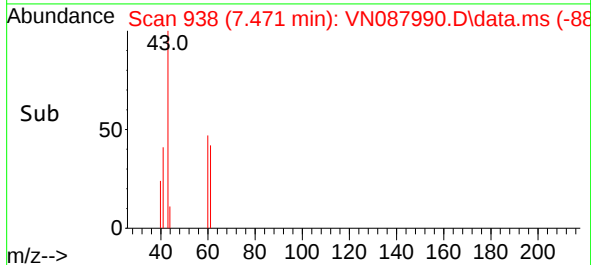
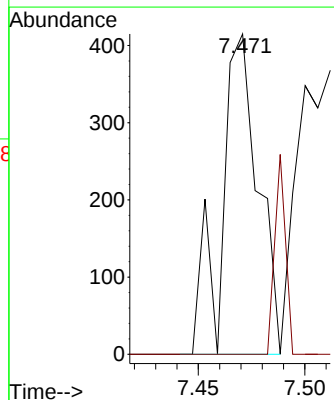
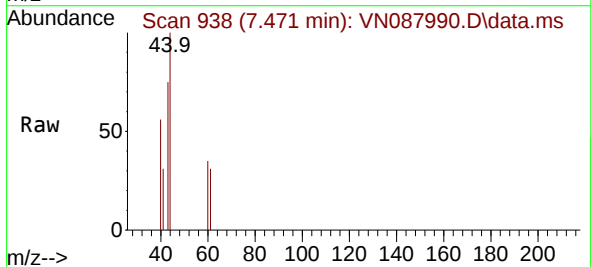
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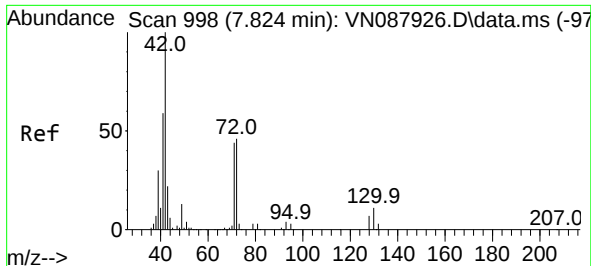
Tgt Ion: 43 Resp: 1425
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.6 12.8#



#25
 2-Butanone
 Concen: 0.275 ug/l
 RT: 7.471 min Scan# 938
 Delta R.T. -0.000 min
 Lab File: VN087990.D
 Acq: 30 Sep 2025 09:34

Tgt Ion: 43 Resp: 497
 Ion Ratio Lower Upper
 43 100
 72 0.0 21.5 32.3#





#29

Tetrahydrofuran

Concen: 0.249 ug/l

RT: 7.824 min Scan# 998

Delta R.T. -0.000 min

Lab File: VN087990.D

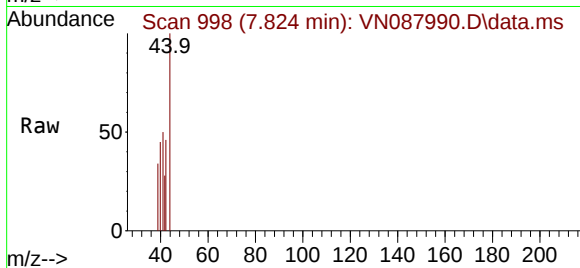
Acq: 30 Sep 2025 09:34

Instrument :

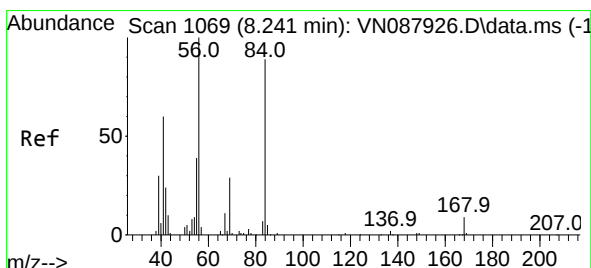
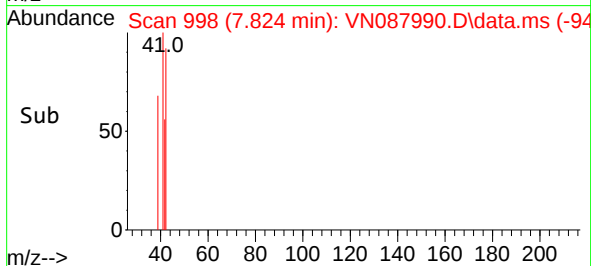
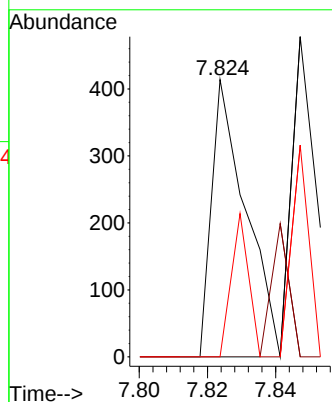
MSVOA_N

ClientSampleId :

VN0930MBL01



Tgt Ion:	42	Resp:	288
Ion	Ratio	Lower	Upper
42	100		
72	0.0	36.5	54.7#
71	26.0	33.8	50.8#



#31

Cyclohexane

Concen: 1.794 ug/l

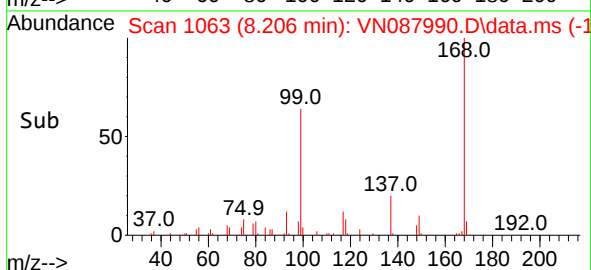
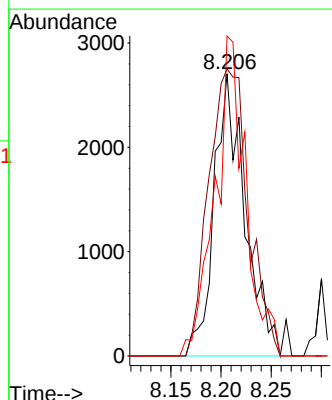
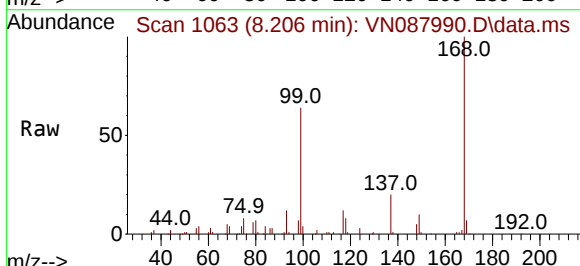
RT: 8.206 min Scan# 1063

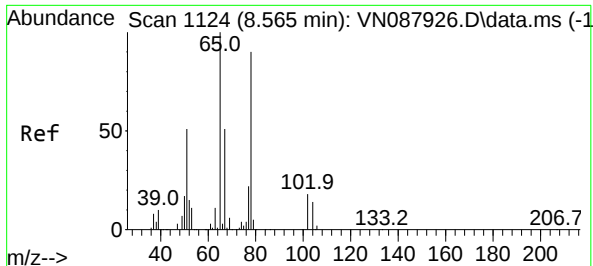
Delta R.T. -0.035 min

Lab File: VN087990.D

Acq: 30 Sep 2025 09:34

Tgt Ion:	56	Resp:	5775
Ion	Ratio	Lower	Upper
56	100		
69	101.7	23.4	35.0#
84	113.4	70.8	106.2#

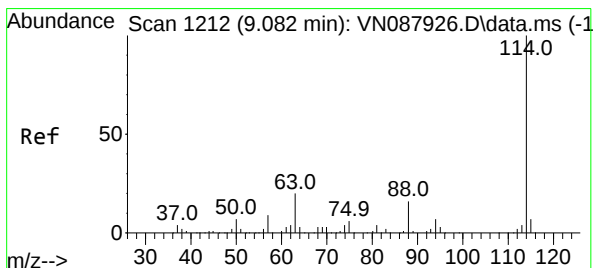
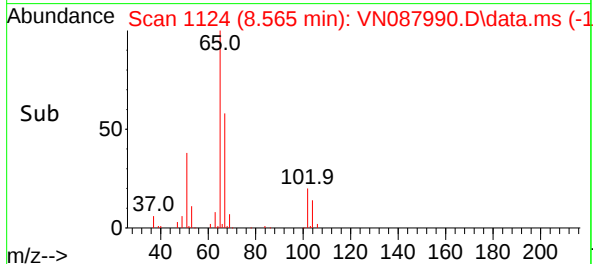
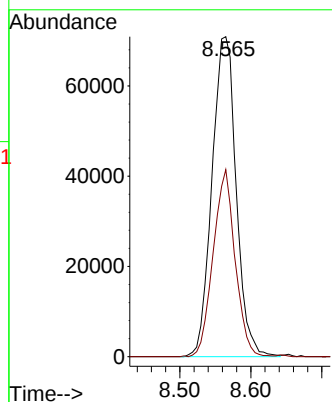
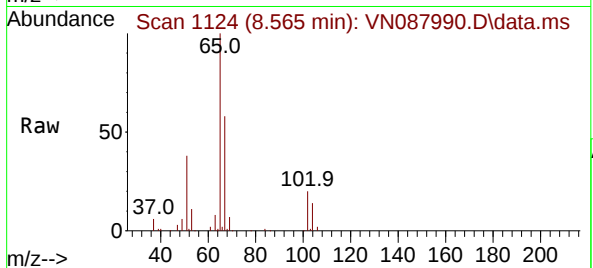




#33
 1,2-Dichloroethane-d4
 Concen: 58.354 ug/l
 RT: 8.565 min Scan# 1124
 Delta R.T. -0.000 min
 Lab File: VN087990.D
 Acq: 30 Sep 2025 09:34

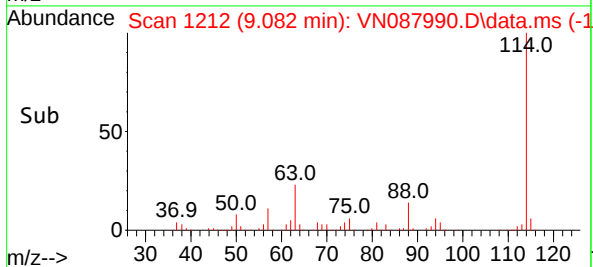
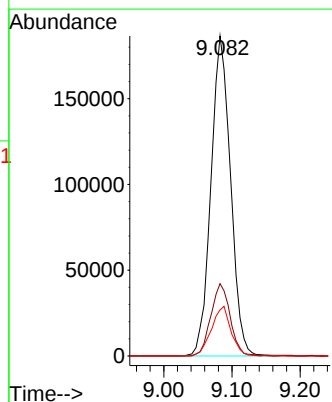
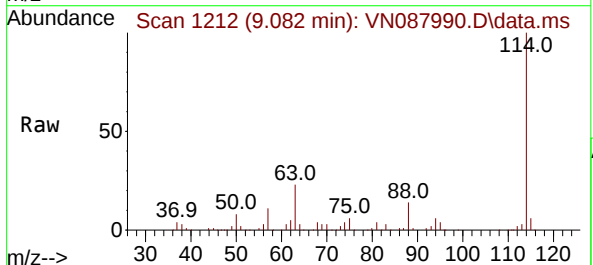
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0930MBL01

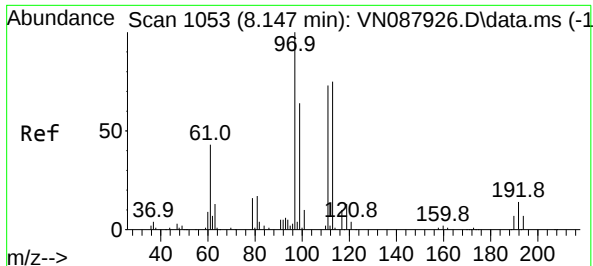
Tgt Ion: 65 Resp: 167479
 Ion Ratio Lower Upper
 65 100
 67 53.0 0.0 103.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.082 min Scan# 1212
 Delta R.T. -0.000 min
 Lab File: VN087990.D
 Acq: 30 Sep 2025 09:34

Tgt Ion: 114 Resp: 373612
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 40.0
 88 14.4 0.0 31.8





#35

Dibromofluoromethane

Concen: 52.277 ug/l

RT: 8.153 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN087990.D

Acq: 30 Sep 2025 09:34

Instrument :

MSVOA_N

ClientSampleId :

VN0930MBL01

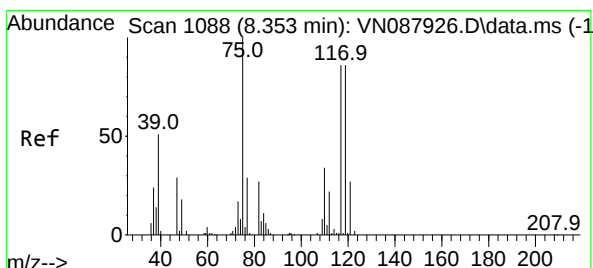
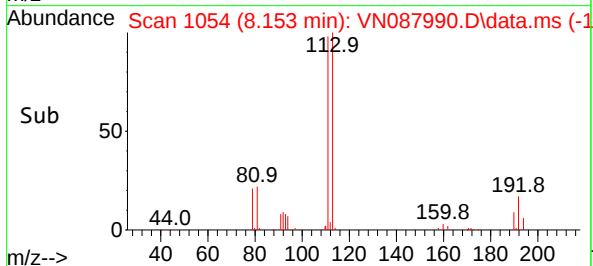
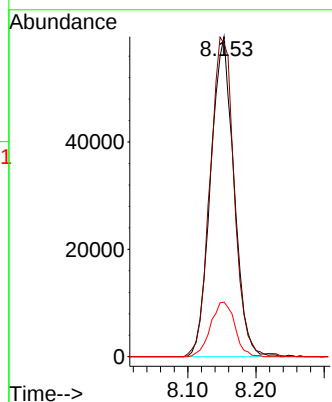
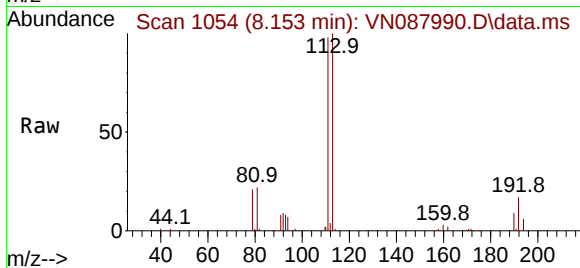
Tgt Ion:113 Resp: 141809

Ion Ratio Lower Upper

113 100

111 103.1 82.2 123.2

192 17.7 14.2 21.2



#36

1,1-Dichloropropene

Concen: 4.424 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.141 min

Lab File: VN087990.D

Acq: 30 Sep 2025 09:34

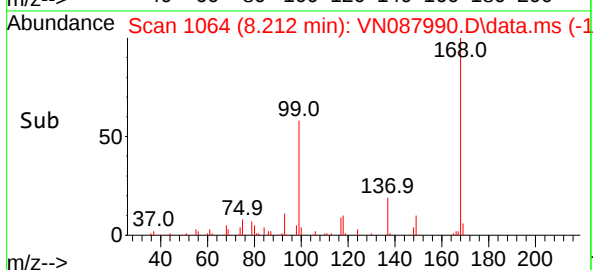
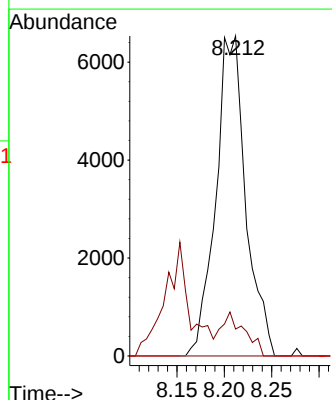
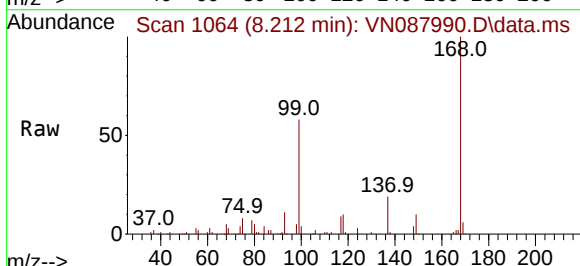
Tgt Ion: 75 Resp: 14429

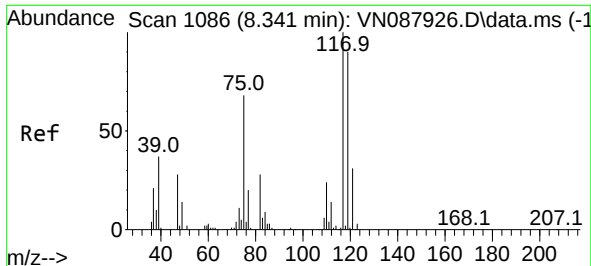
Ion Ratio Lower Upper

75 100

110 10.7 17.1 51.3#

77 0.0 24.8 37.2#

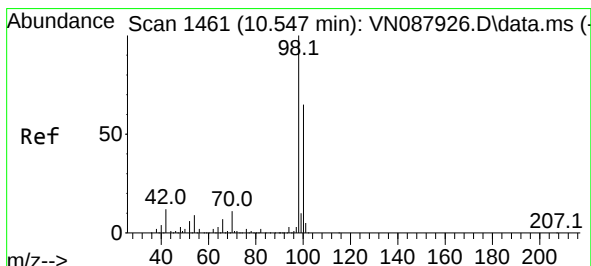
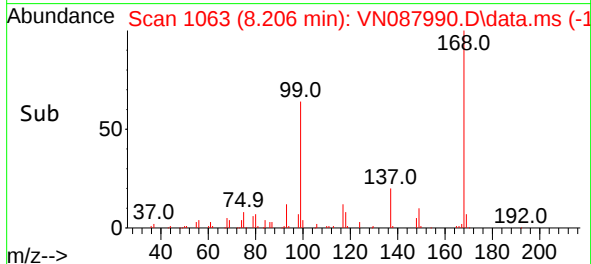
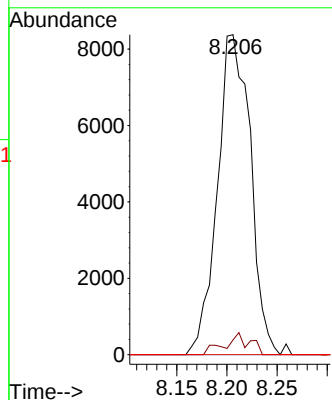
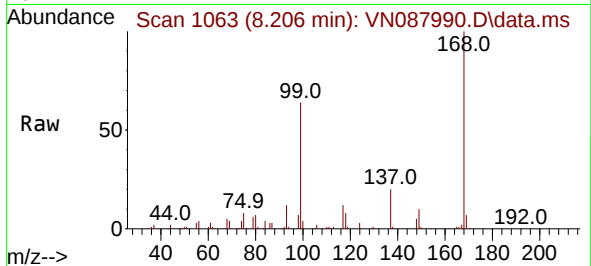




#38
Carbon Tetrachloride
Concen: 5.124 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.135 min
Lab File: VN087990.D
Acq: 30 Sep 2025 09:34

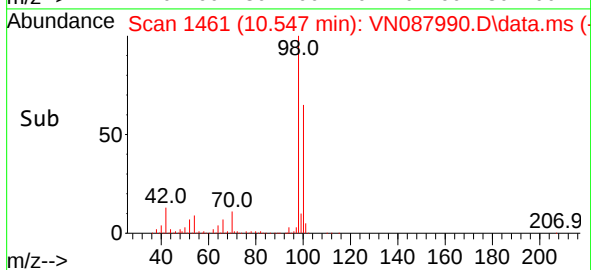
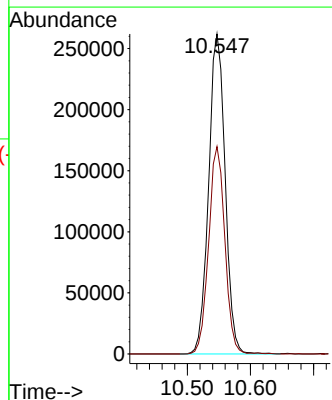
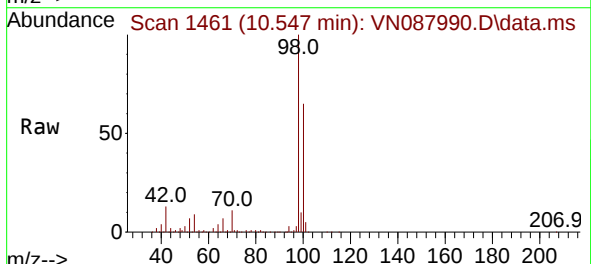
Instrument :
MSVOA_N
ClientSampleId :
VN0930MBL01

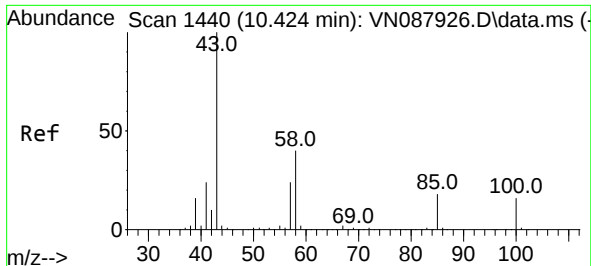
Tgt Ion:117 Resp: 19177
Ion Ratio Lower Upper
117 100
119 4.6 72.1 108.1#
121 0.0 24.6 36.8#



#50
Toluene-d8
Concen: 49.820 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087990.D
Acq: 30 Sep 2025 09:34

Tgt Ion: 98 Resp: 475250
Ion Ratio Lower Upper
98 100
100 63.7 51.7 77.5





#51

4-Methyl-2-Pentanone

Concen: 0.306 ug/l

RT: 10.429 min Scan# 1440

Delta R.T. 0.006 min

Lab File: VN087990.D

Acq: 30 Sep 2025 09:34

Instrument :

MSVOA_N

ClientSampleId :

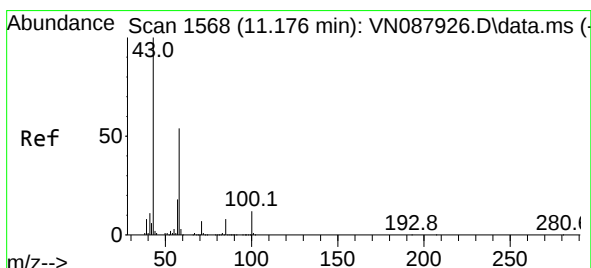
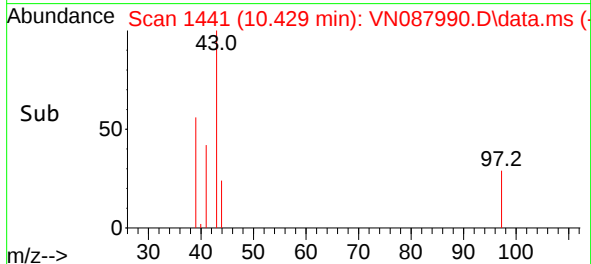
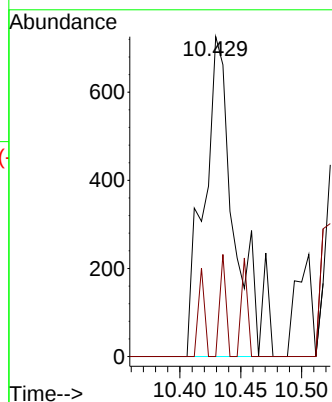
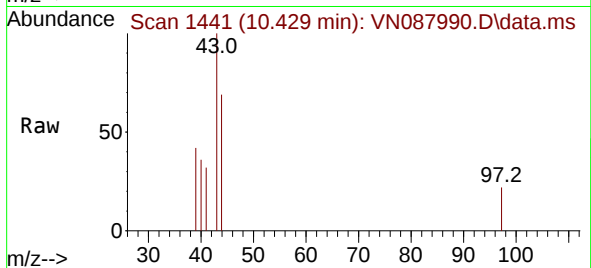
VN0930MBL01

Tgt Ion: 43 Resp: 1288

Ion Ratio Lower Upper

43 100

58 0.0 31.0 46.6#



#59

2-Hexanone

Concen: 0.235 ug/l

RT: 11.047 min Scan# 1546

Delta R.T. -0.129 min

Lab File: VN087990.D

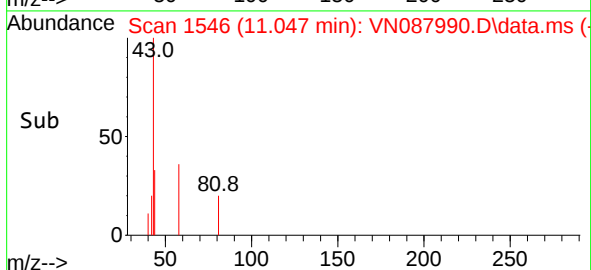
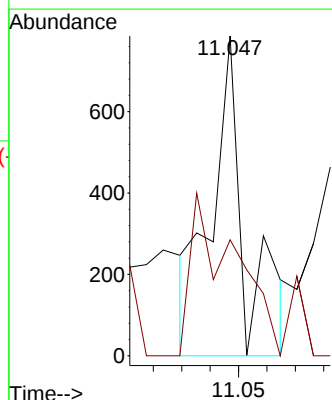
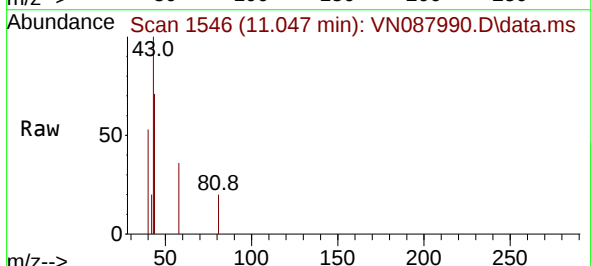
Acq: 30 Sep 2025 09:34

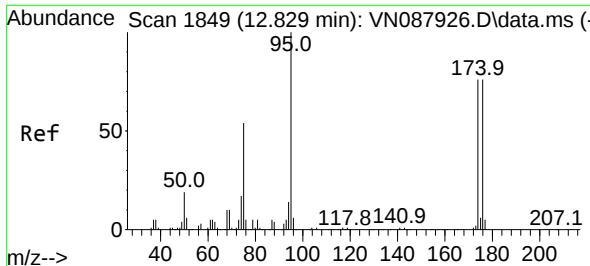
Tgt Ion: 43 Resp: 653

Ion Ratio Lower Upper

43 100

58 66.8 26.4 79.2

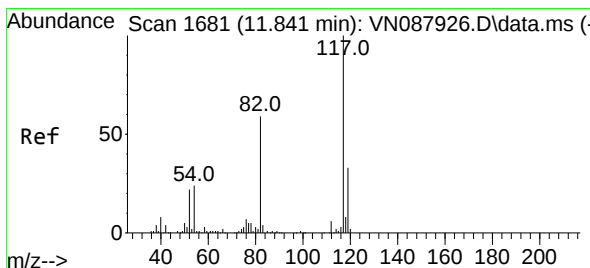
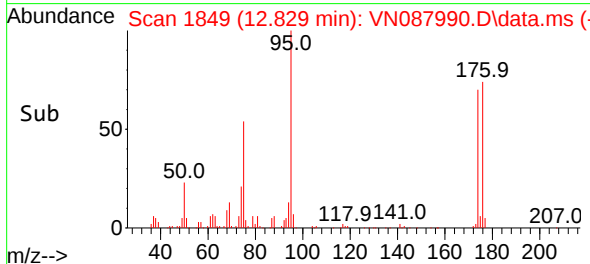
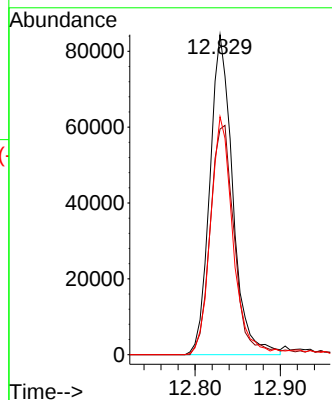
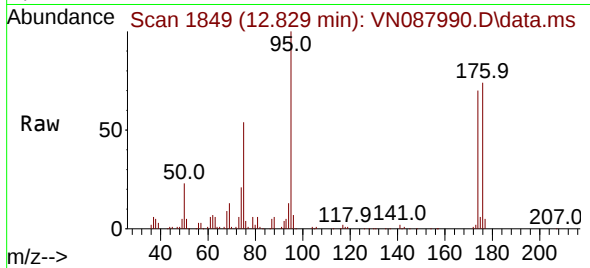




#62
4-Bromofluorobenzene
Concen: 46.188 ug/l
RT: 12.829 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087990.D
Acq: 30 Sep 2025 09:34

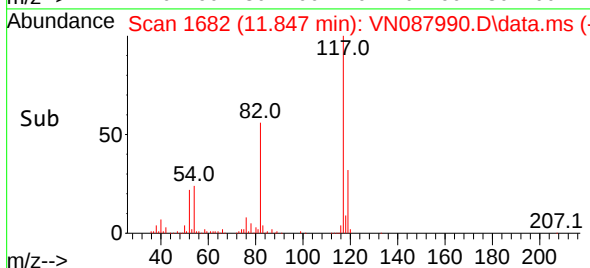
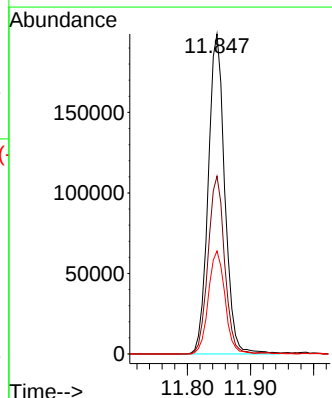
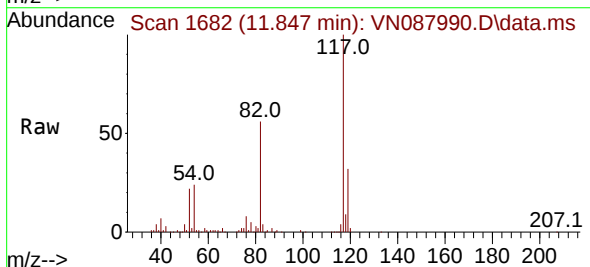
Instrument :
MSVOA_N
ClientSampleId :
VN0930MBL01

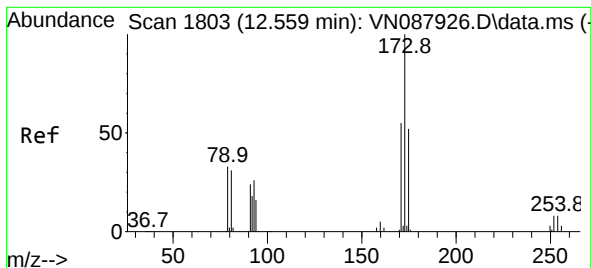
Tgt Ion: 95 Resp: 157491
Ion Ratio Lower Upper
95 100
174 75.8 0.0 159.2
176 73.2 0.0 152.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VN087990.D
Acq: 30 Sep 2025 09:34

Tgt Ion: 117 Resp: 361092
Ion Ratio Lower Upper
117 100
82 55.6 47.0 70.4
119 32.2 26.1 39.1





#71

Bromoform

Concen: 0.868 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. 0.271 min

Lab File: VN087990.D

Acq: 30 Sep 2025 09:34

Instrument :

MSVOA_N

ClientSampleId :

VN0930MBL01

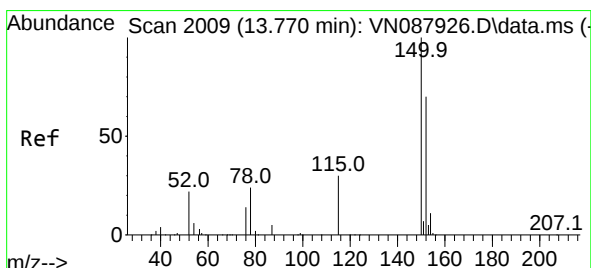
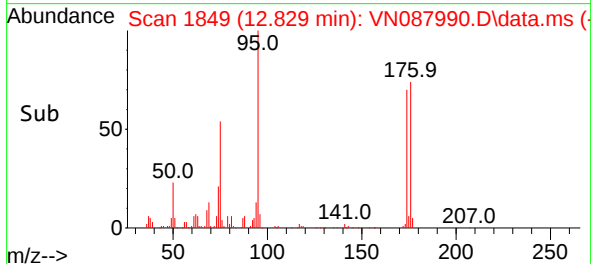
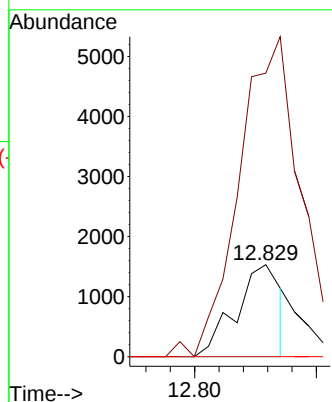
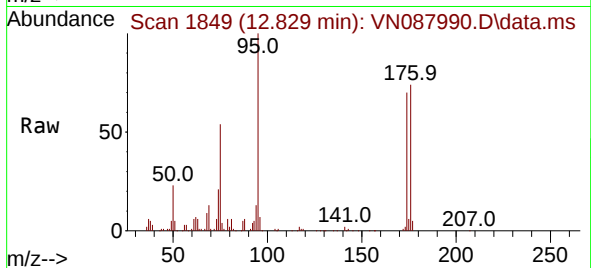
Tgt Ion:173 Resp: 1951

Ion Ratio Lower Upper

173 100

175 0.0 23.7 71.1#

254 0.0 0.1 0.1#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 2009

Delta R.T. -0.000 min

Lab File: VN087990.D

Acq: 30 Sep 2025 09:34

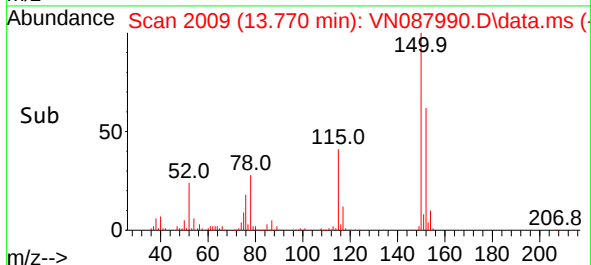
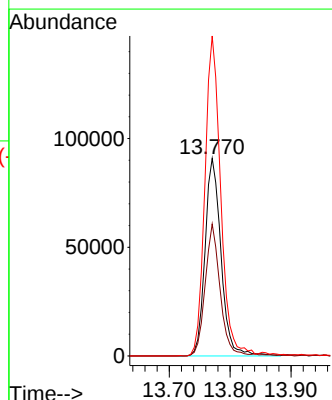
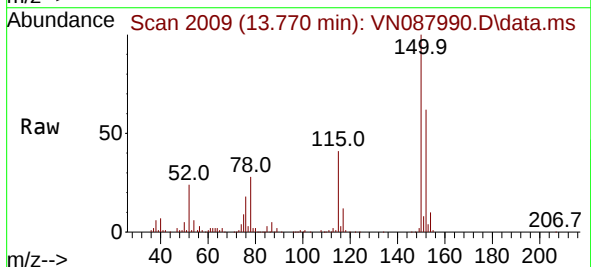
Tgt Ion:152 Resp: 166166

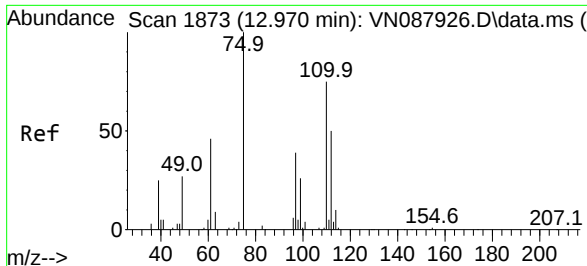
Ion Ratio Lower Upper

152 100

115 62.1 29.9 89.7

150 159.5 0.0 335.0

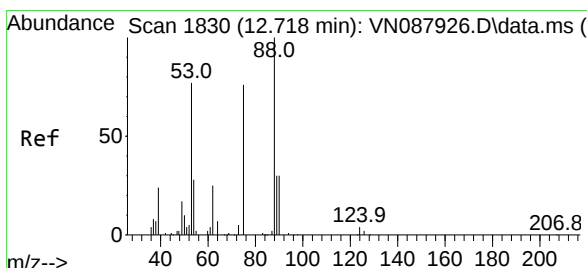
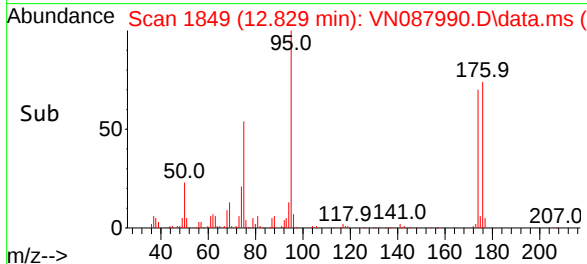
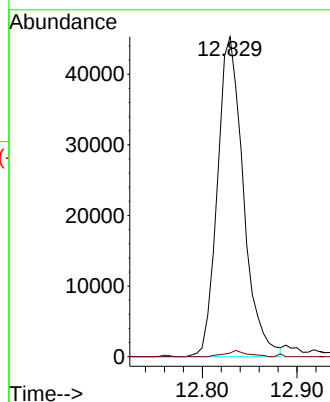
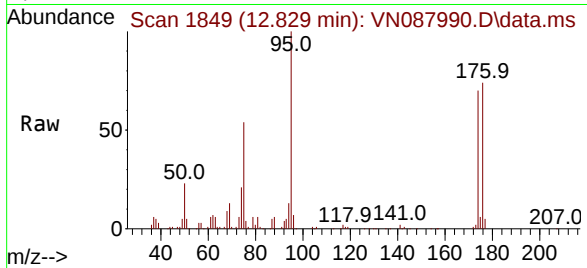




#76
1,2,3-Trichloropropane
Concen: 26.326 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN087990.D
Acq: 30 Sep 2025 09:34

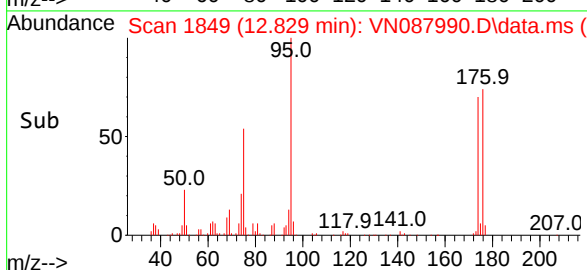
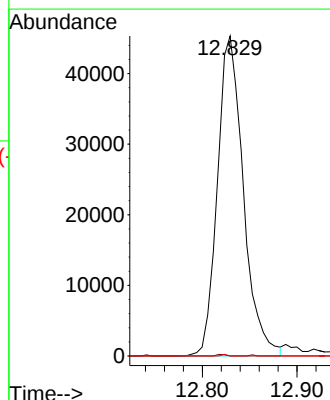
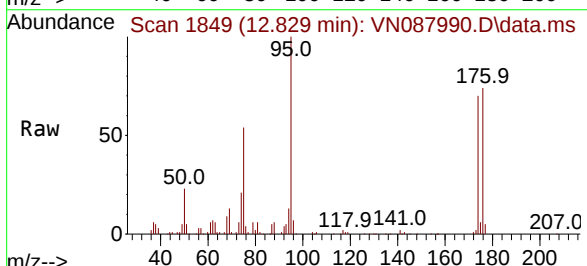
Instrument :
MSVOA_N
ClientSampleId :
VN0930MBL01

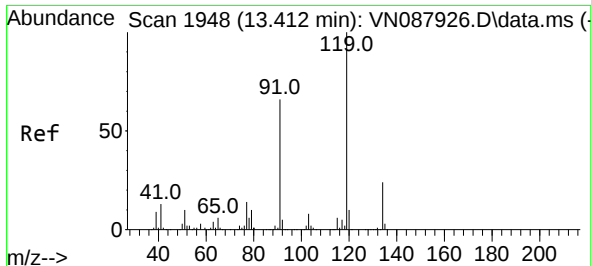
Tgt Ion: 75 Resp: 86230
Ion Ratio Lower Upper
75 100
77 1.6 89.5 268.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 73.103 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087990.D
Acq: 30 Sep 2025 09:34

Tgt Ion: 75 Resp: 86230
Ion Ratio Lower Upper
75 100
53 0.2 82.0 123.0#
89 0.1 36.1 54.1#

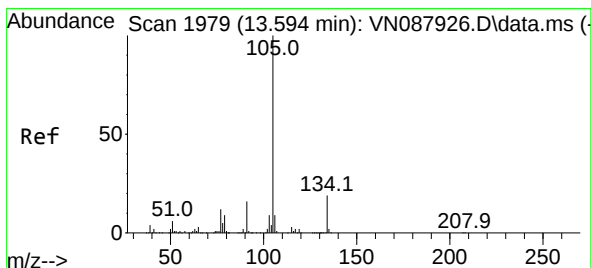
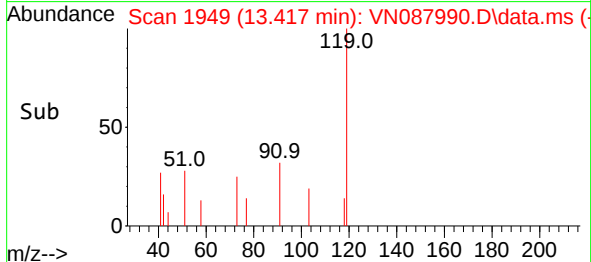
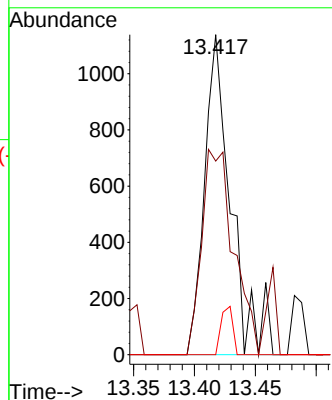
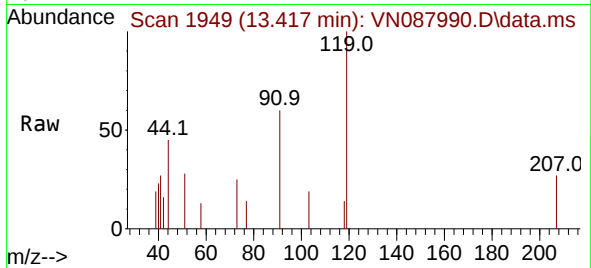




#83
tert-Butylbenzene
Concen: 0.228 ug/l
RT: 13.417 min Scan# 1948
Delta R.T. 0.006 min
Lab File: VN087990.D
Acq: 30 Sep 2025 09:34

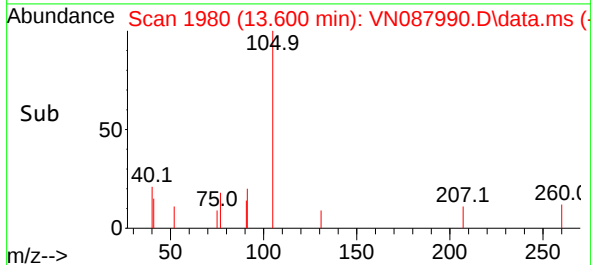
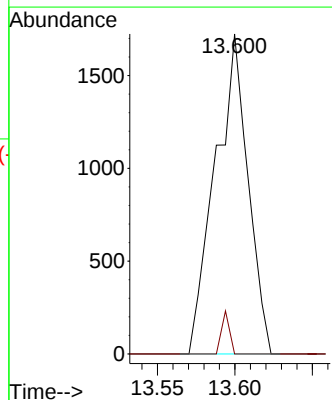
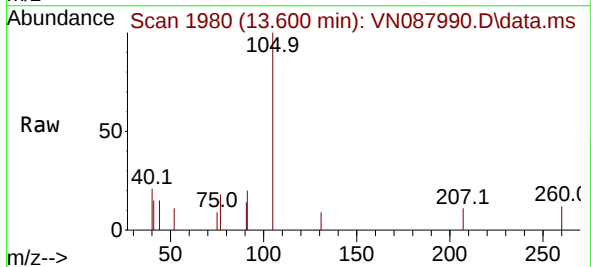
Instrument :
MSVOA_N
ClientSampleId :
VN0930MBL01

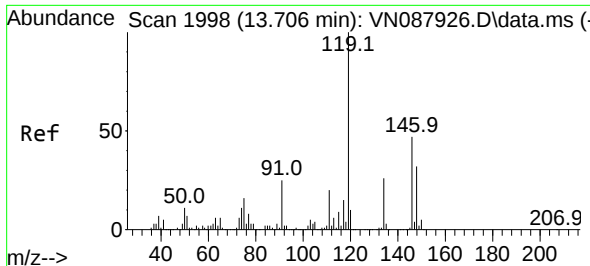
Tgt Ion:119 Resp: 1717
Ion Ratio Lower Upper
119 100
91 77.6 32.1 96.3
134 6.6 12.3 36.8#



#85
sec-Butylbenzene
Concen: 0.229 ug/l
RT: 13.600 min Scan# 1980
Delta R.T. 0.006 min
Lab File: VN087990.D
Acq: 30 Sep 2025 09:34

Tgt Ion:105 Resp: 2526
Ion Ratio Lower Upper
105 100
134 3.2 9.6 28.8#

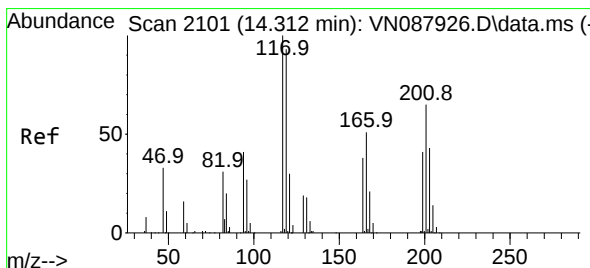
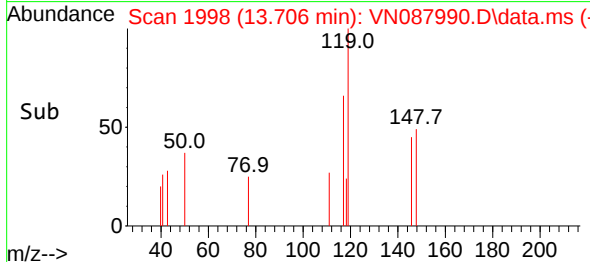
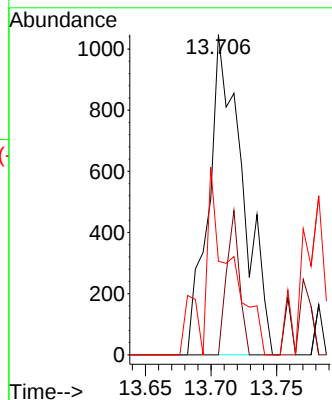
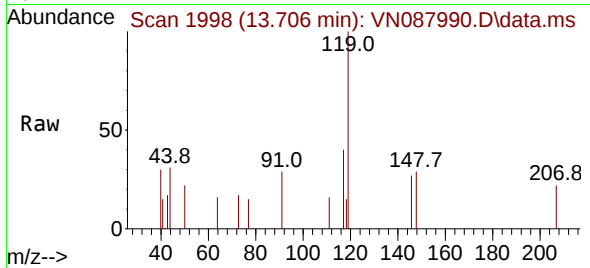




#86
 p-Isopropyltoluene
 Concen: 0.202 ug/l
 RT: 13.706 min Scan# 1998
 Delta R.T. -0.000 min
 Lab File: VN087990.D
 Acq: 30 Sep 2025 09:34

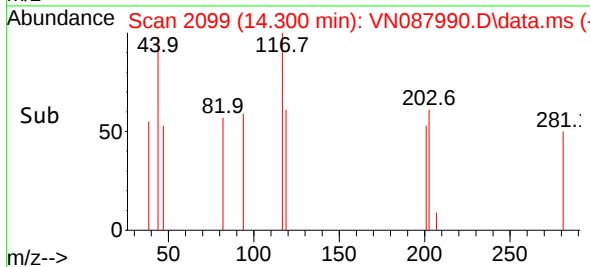
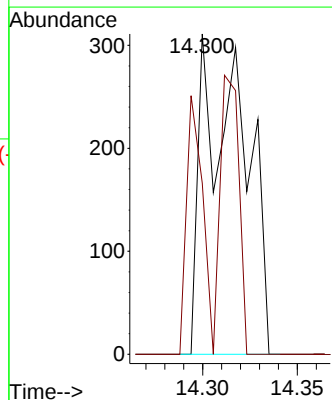
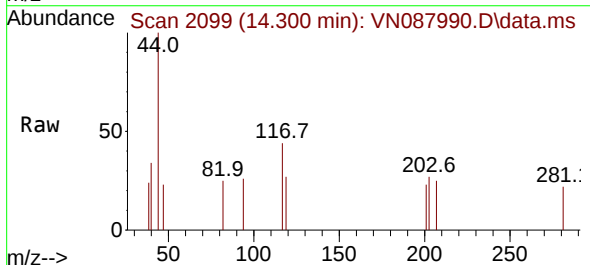
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0930MBL01

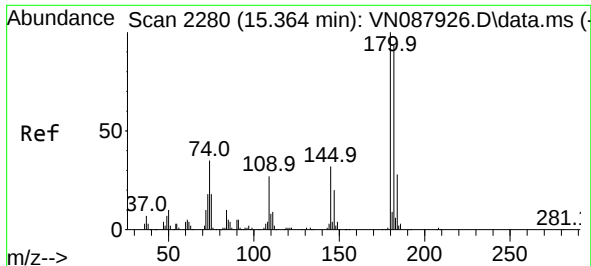
Tgt Ion:119 Resp: 1888
 Ion Ratio Lower Upper
 119 100
 134 16.9 13.1 39.3
 91 44.9 11.9 35.5#



#90
 Hexachloroethane
 Concen: 0.247 ug/l
 RT: 14.300 min Scan# 2099
 Delta R.T. -0.012 min
 Lab File: VN087990.D
 Acq: 30 Sep 2025 09:34

Tgt Ion:117 Resp: 483
 Ion Ratio Lower Upper
 117 100
 201 30.4 33.6 100.6#

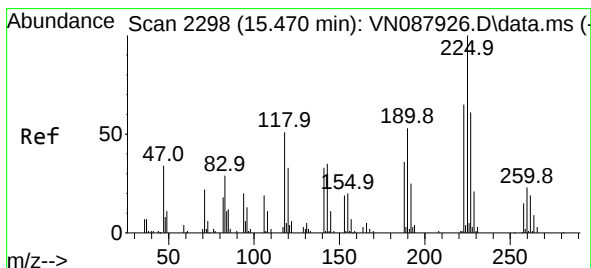
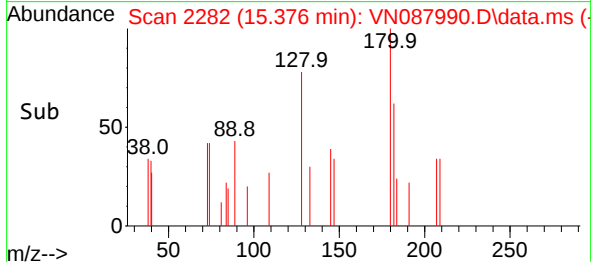
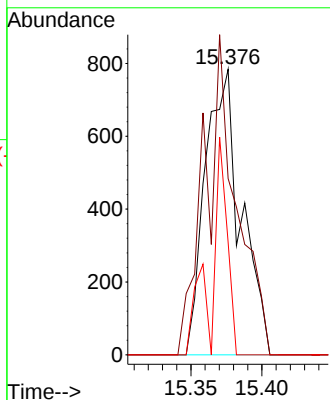
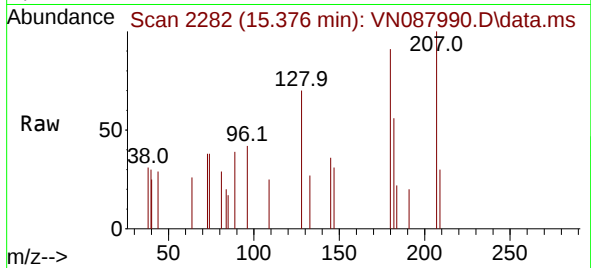




#93
1,2,4-Trichlorobenzene
Concen: 0.450 ug/l
RT: 15.376 min Scan# 21
Delta R.T. 0.012 min
Lab File: VN087990.D
Acq: 30 Sep 2025 09:34

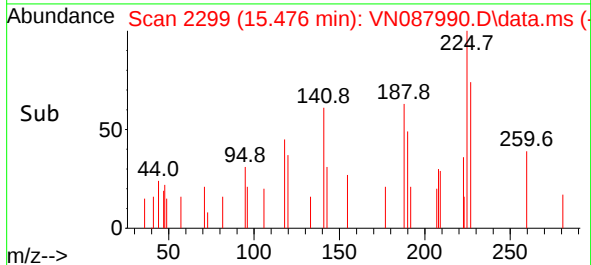
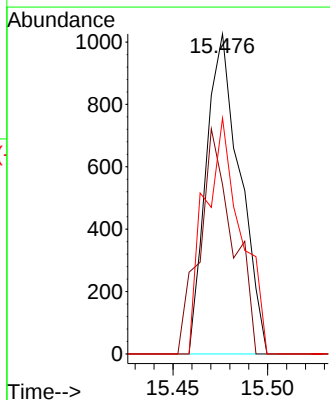
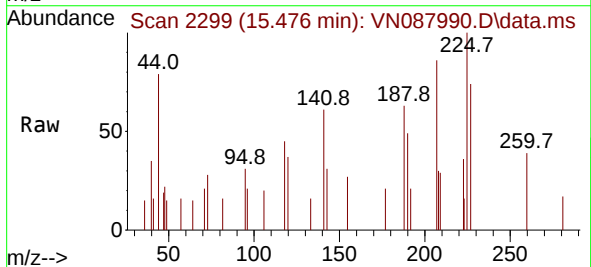
Instrument :
MSVOA_N
ClientSampleId :
VN0930MBL01

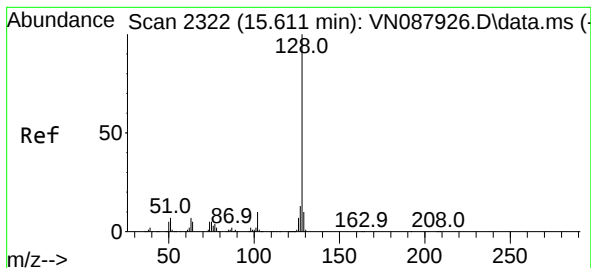
Tgt Ion:180 Resp: 1370
Ion Ratio Lower Upper
180 100
182 99.9 48.5 145.5
145 34.6 15.9 47.6



#94
Hexachlorobutadiene
Concen: 1.134 ug/l
RT: 15.476 min Scan# 2299
Delta R.T. 0.006 min
Lab File: VN087990.D
Acq: 30 Sep 2025 09:34

Tgt Ion:225 Resp: 1270
Ion Ratio Lower Upper
225 100
223 69.1 31.8 95.4
227 79.4 31.9 95.9





#95

Naphthalene

Concen: 0.314 ug/l

RT: 15.623 min Scan# 21

Delta R.T. 0.012 min

Lab File: VN087990.D

Acq: 30 Sep 2025 09:34

Instrument :

MSVOA_N

ClientSampleId :

VN0930MBL01

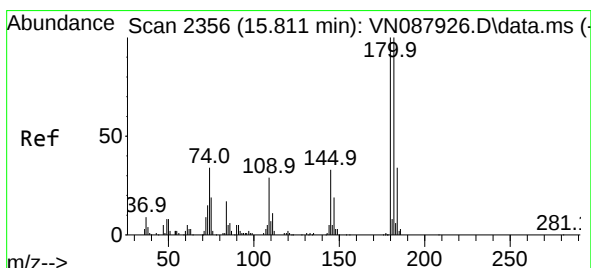
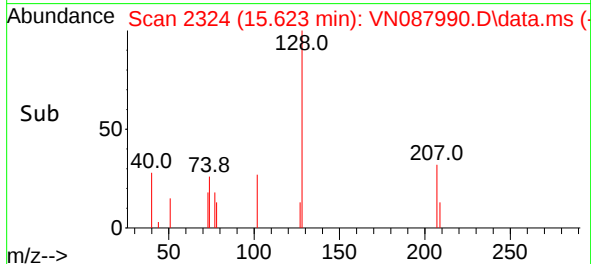
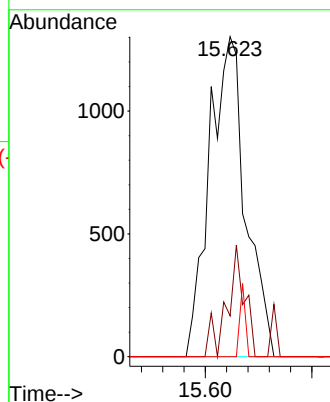
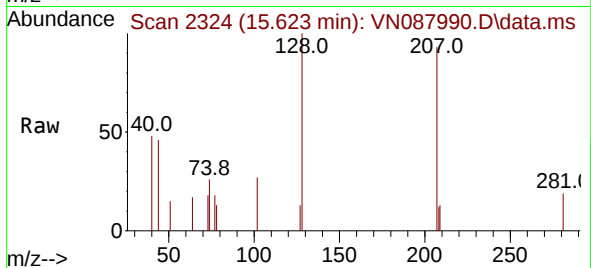
Tgt Ion:128 Resp: 3063

Ion Ratio Lower Upper

128 100

127 17.1 10.2 15.4#

129 3.4 8.6 13.0#



#96

1,2,3-Trichlorobenzene

Concen: 0.572 ug/l

RT: 15.823 min Scan# 2358

Delta R.T. 0.012 min

Lab File: VN087990.D

Acq: 30 Sep 2025 09:34

Tgt Ion:180 Resp: 1692

Ion Ratio Lower Upper

180 100

182 0.0 47.3 142.0#

145 17.5 16.1 48.3

