

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062425\
 Data File : VN087150.D
 Acq On : 24 Jun 2025 12:44
 Operator : JC\MD
 Sample : VN0624WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0624WBL01

Quant Time: Jun 25 04:14:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

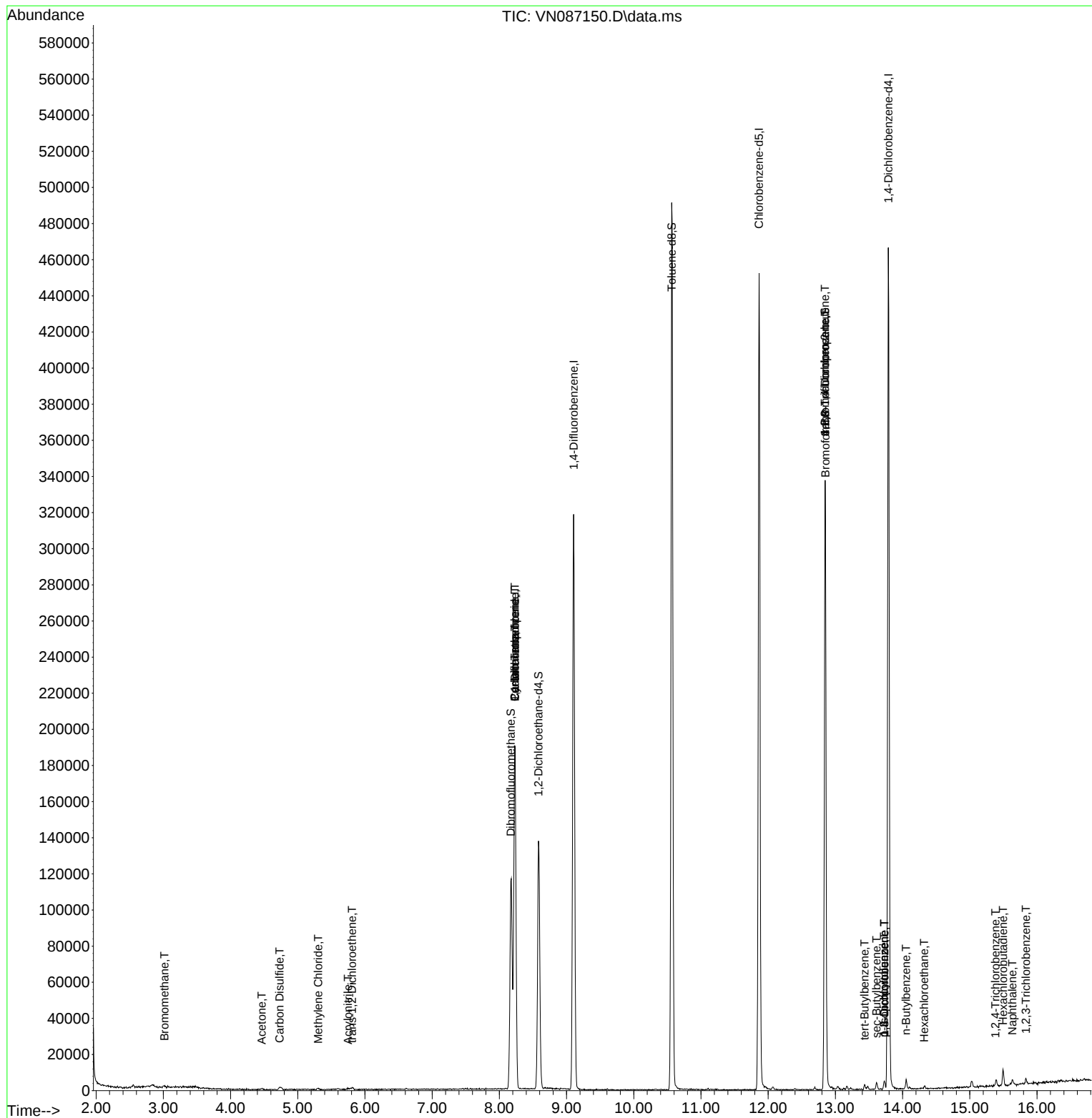
Internal Standards						
1) Pentafluorobenzene	8.230	168	149121	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	287883	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	275522	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	132163	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	112496	56.345	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 112.680%		
35) Dibromofluoromethane	8.171	113	90627	53.121	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 106.240%		
50) Toluene-d8	10.565	98	357644	52.954	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 105.900%		
62) 4-Bromofluorobenzene	12.847	95	131459	52.390	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 104.780%		
Target Compounds						
					Qvalue	
5) Bromomethane	3.018	94	445	0.402	ug/l #	62
15) Acrylonitrile	5.747	53	448	0.354	ug/l #	77
16) Acetone	4.465	43	790	0.746	ug/l #	40
17) Carbon Disulfide	4.730	76	3148	0.686	ug/l #	75
20) Methylene Chloride	5.306	84	520	0.262	ug/l #	62
21) trans-1,2-Dichloroethene	5.806	96	566	0.307	ug/l #	40
31) Cyclohexane	8.230	56	2908	0.898	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	12331	4.851	ug/l #	49
38) Carbon Tetrachloride	8.230	117	15330	6.142	ug/l #	16
71) Bromoform	12.853	173	638	0.441	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	64497	20.530	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	64497	47.260	ug/l #	16
83) tert-Butylbenzene	13.435	119	1523	0.209	ug/l	87
85) sec-Butylbenzene	13.612	105	3116	0.295	ug/l	94
86) p-Isopropyltoluene	13.723	119	2608	0.299	ug/l	94
87) 1,3-Dichlorobenzene	13.729	146	1031	0.237	ug/l	87
88) 1,4-Dichlorobenzene	13.729	146	1031	0.233	ug/l	89
89) n-Butylbenzene	14.053	91	3703	0.438	ug/l	91
90) Hexachloroethane	14.323	117	446	0.301	ug/l	65
93) 1,2,4-Trichlorobenzene	15.382	180	1556	0.584	ug/l	95
94) Hexachlorobutadiene	15.494	225	1615	1.626	ug/l	94
95) Naphthalene	15.635	128	3458	0.349	ug/l #	84
96) 1,2,3-Trichlorobenzene	15.835	180	1311	0.495	ug/l	81

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

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

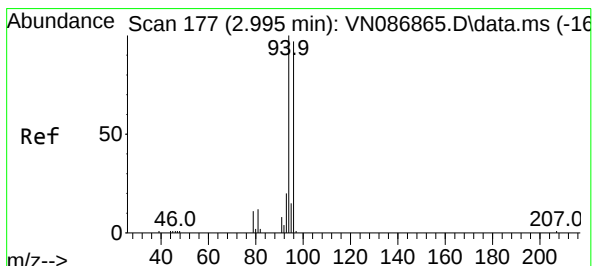
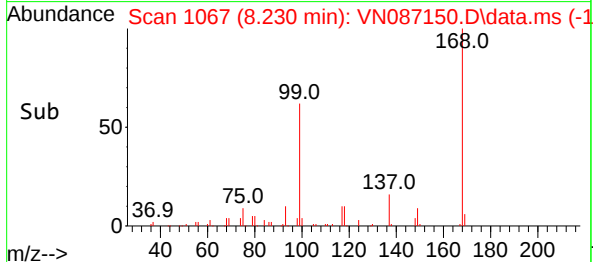
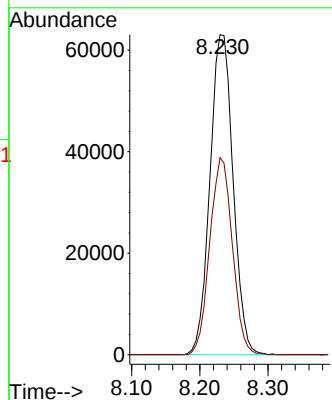
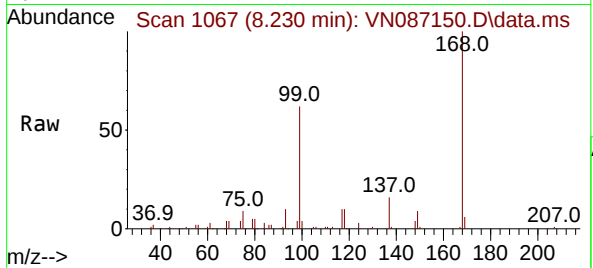




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VN087150.D
Acq: 24 Jun 2025 12:44

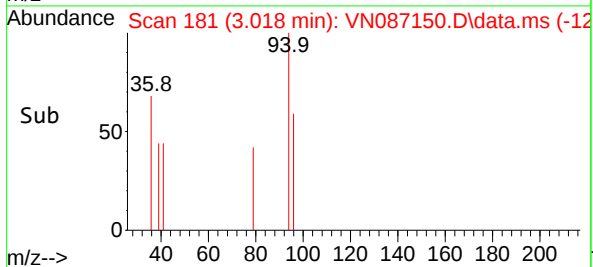
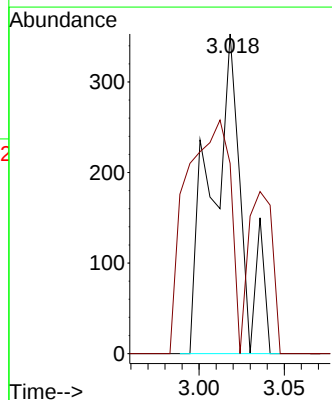
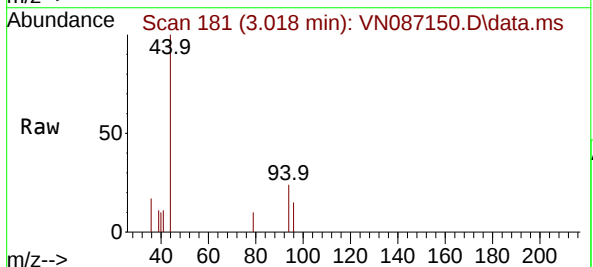
Instrument :
MSVOA_N
ClientSampleId :
VN0624WBL01

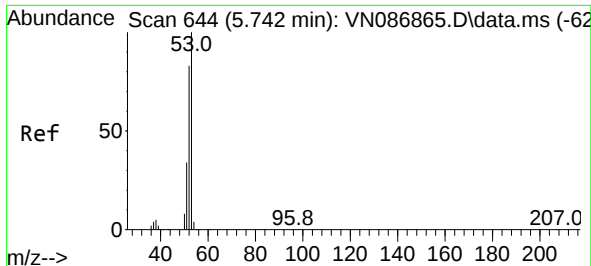
Tgt Ion:168 Resp: 149121
Ion Ratio Lower Upper
168 100
99 61.6 49.1 73.7



#5
Bromomethane
Concen: 0.402 ug/l
RT: 3.018 min Scan# 181
Delta R.T. 0.023 min
Lab File: VN087150.D
Acq: 24 Jun 2025 12:44

Tgt Ion: 94 Resp: 445
Ion Ratio Lower Upper
94 100
96 59.5 77.9 116.9#

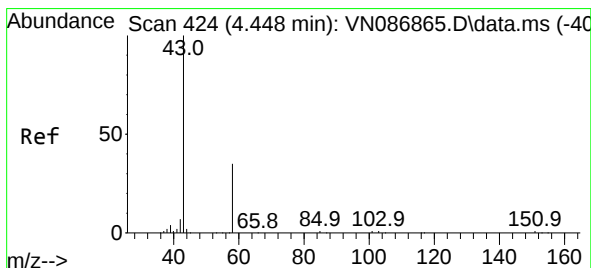
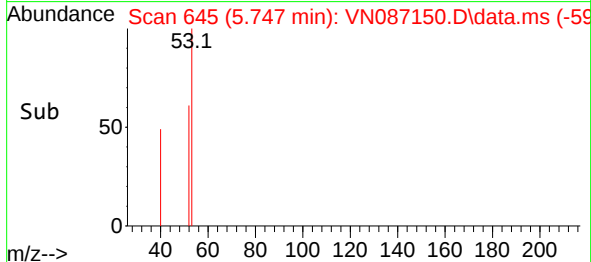
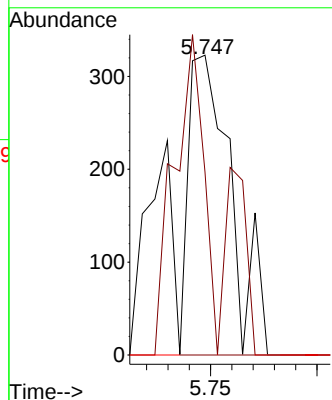
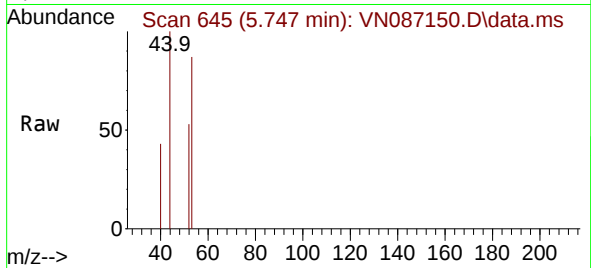




#15
Acrylonitrile
Concen: 0.354 ug/l
RT: 5.747 min Scan# 644
Delta R.T. 0.006 min
Lab File: VN087150.D
Acq: 24 Jun 2025 12:44

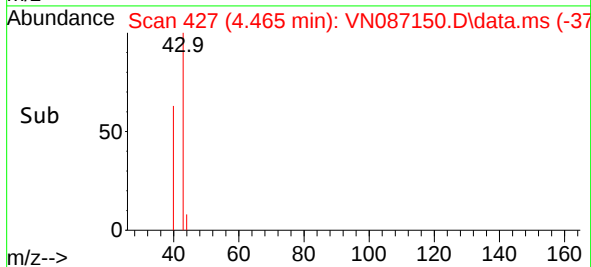
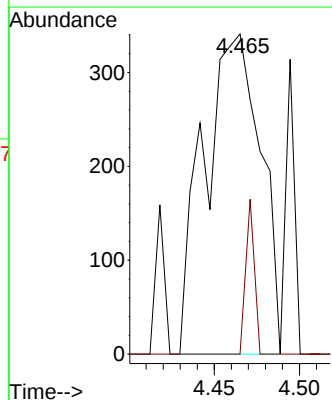
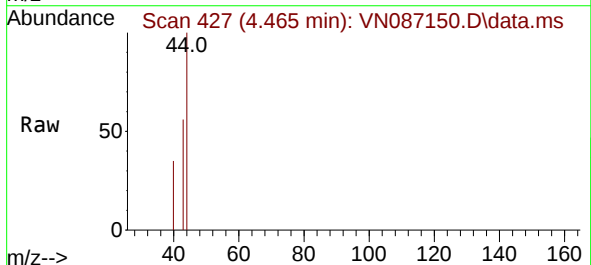
Instrument :
MSVOA_N
ClientSampleId :
VN0624WBL01

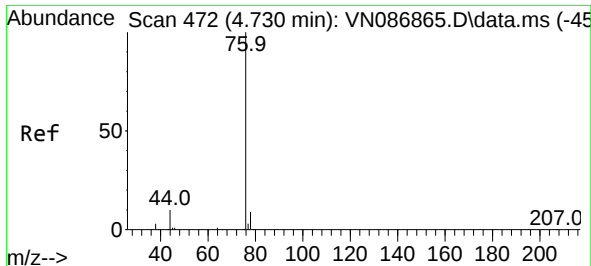
Tgt Ion: 53 Resp: 448
Ion Ratio Lower Upper
53 100
52 74.6 65.0 97.6
51 0.0 27.2 40.8#



#16
Acetone
Concen: 0.746 ug/l
RT: 4.465 min Scan# 427
Delta R.T. 0.018 min
Lab File: VN087150.D
Acq: 24 Jun 2025 12:44

Tgt Ion: 43 Resp: 790
Ion Ratio Lower Upper
43 100
58 0.0 28.0 42.0#

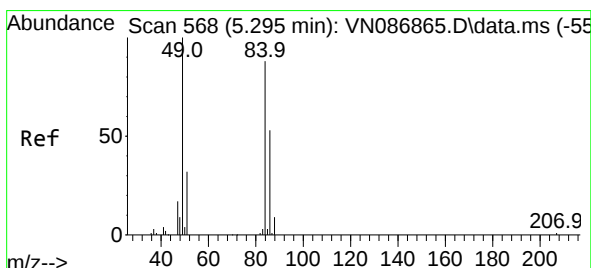
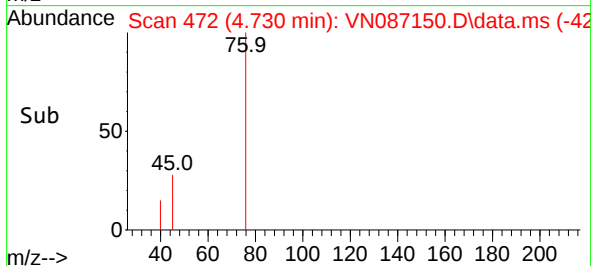
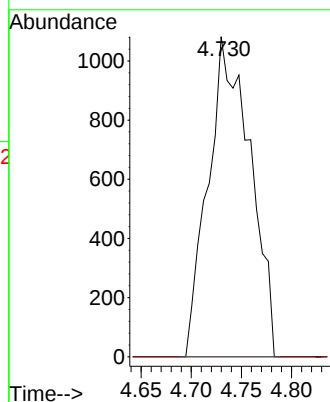
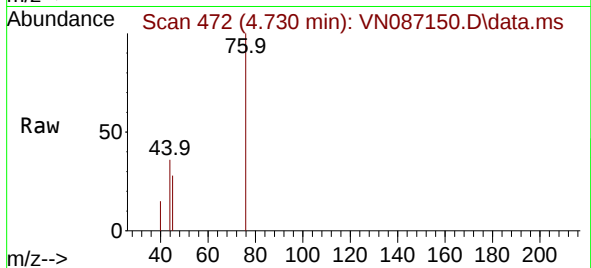




#17
Carbon Disulfide
Concen: 0.686 ug/l
RT: 4.730 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN087150.D
Acq: 24 Jun 2025 12:44

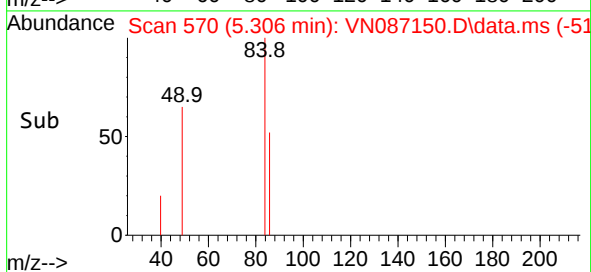
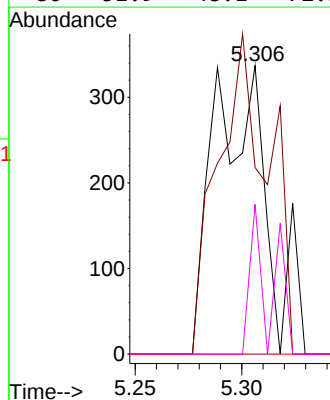
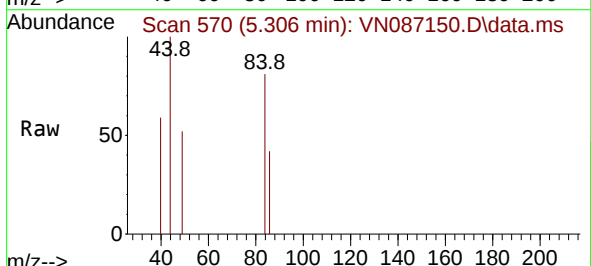
Instrument :
MSVOA_N
ClientSampleId :
VN0624WBL01

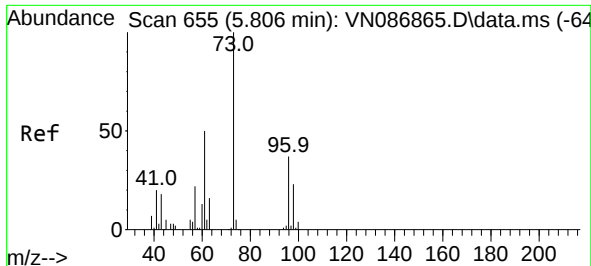
Tgt Ion: 76 Resp: 3148
Ion Ratio Lower Upper
76 100
78 0.0 7.3 10.9#



#20
Methylene Chloride
Concen: 0.262 ug/l
RT: 5.306 min Scan# 570
Delta R.T. 0.012 min
Lab File: VN087150.D
Acq: 24 Jun 2025 12:44

Tgt Ion: 84 Resp: 520
Ion Ratio Lower Upper
84 100
49 64.7 90.5 135.7#
51 0.0 28.5 42.7#
86 51.9 48.1 72.1

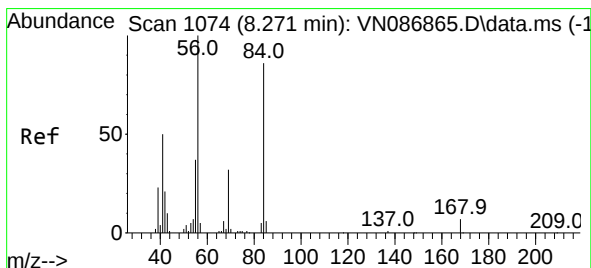
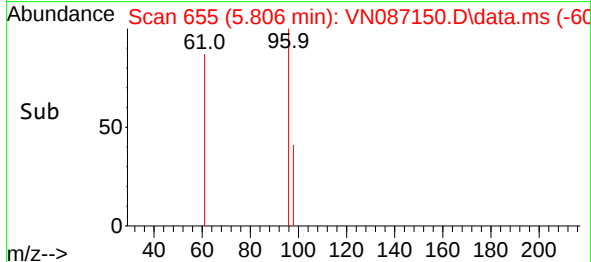
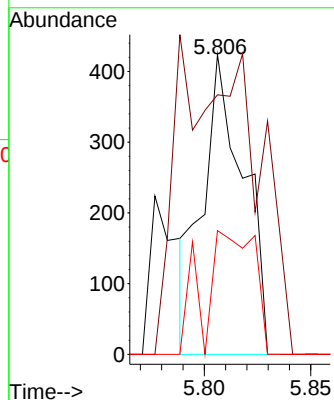
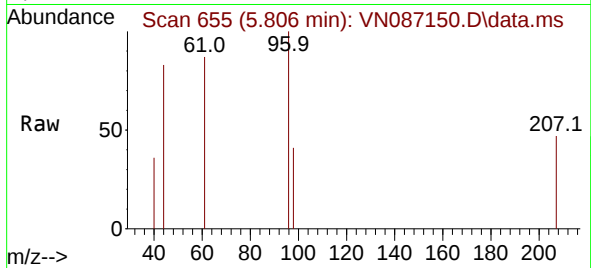




#21
trans-1,2-Dichloroethene
Concen: 0.307 ug/l
RT: 5.806 min Scan# 611
Delta R.T. -0.000 min
Lab File: VN087150.D
Acq: 24 Jun 2025 12:44

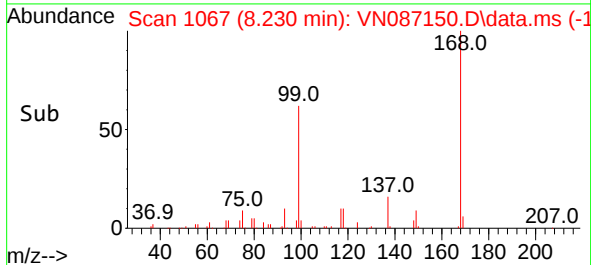
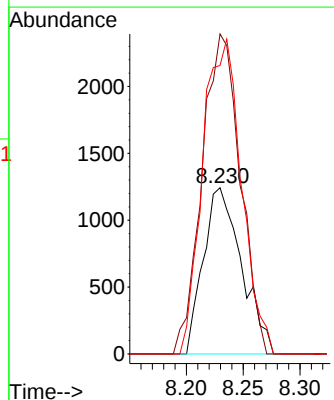
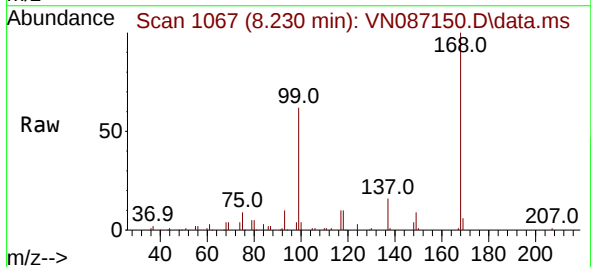
Instrument :
MSVOA_N
ClientSampleId :
VN0624WBL01

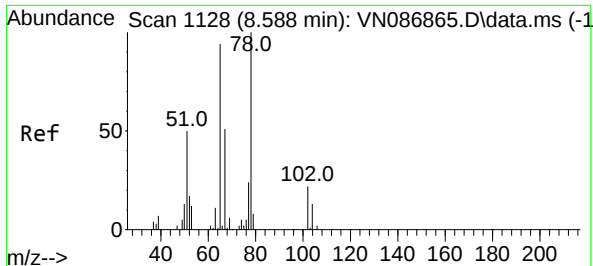
Tgt Ion: 96 Resp: 566
Ion Ratio Lower Upper
96 100
61 47.2 109.2 163.8#
98 41.3 49.8 74.8#



#31
Cyclohexane
Concen: 0.898 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.041 min
Lab File: VN087150.D
Acq: 24 Jun 2025 12:44

Tgt Ion: 56 Resp: 2908
Ion Ratio Lower Upper
56 100
69 192.5 25.4 38.0#
84 173.5 68.8 103.2#





#33

1,2-Dichloroethane-d4

Concen: 56.345 ug/l

RT: 8.582 min Scan# 1128

Delta R.T. -0.006 min

Lab File: VN087150.D

Acq: 24 Jun 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

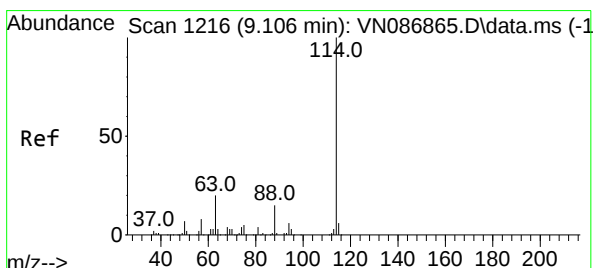
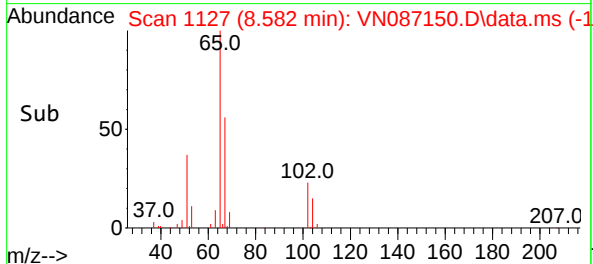
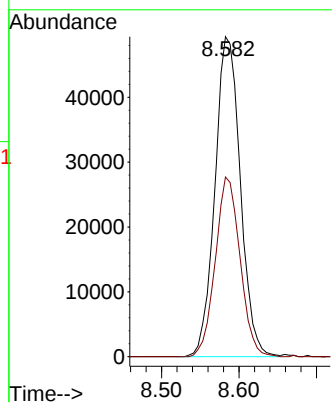
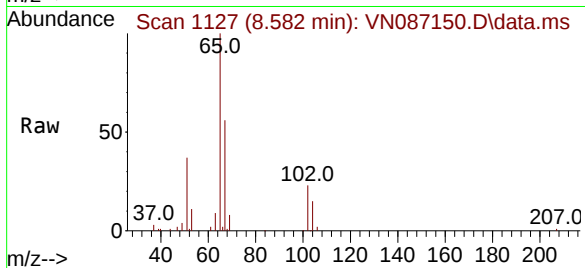
VN0624WBL01

Tgt Ion: 65 Resp: 112496

Ion Ratio Lower Upper

65 100

67 54.7 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN087150.D

Acq: 24 Jun 2025 12:44

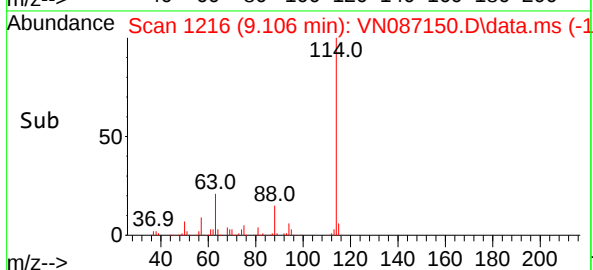
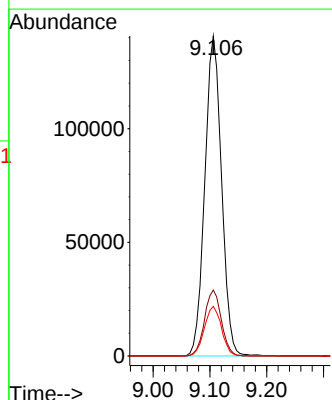
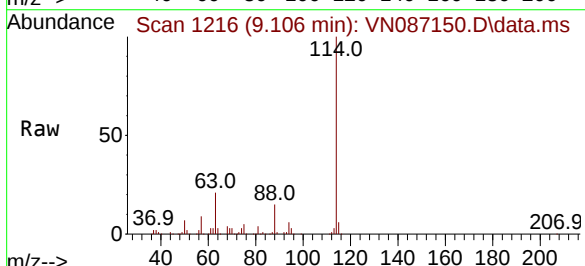
Tgt Ion: 114 Resp: 287883

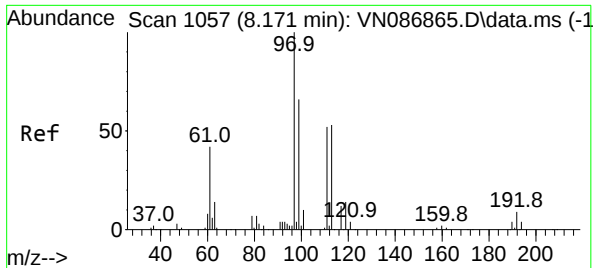
Ion Ratio Lower Upper

114 100

63 20.6 0.0 39.6

88 15.5 0.0 30.2

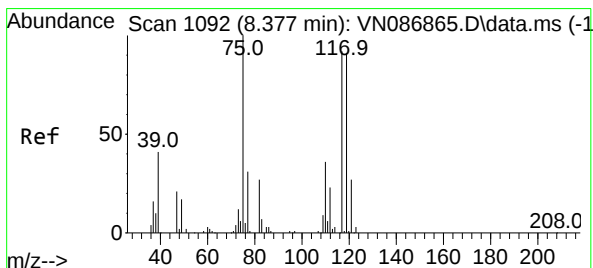
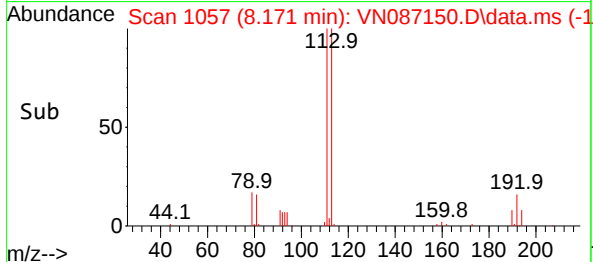
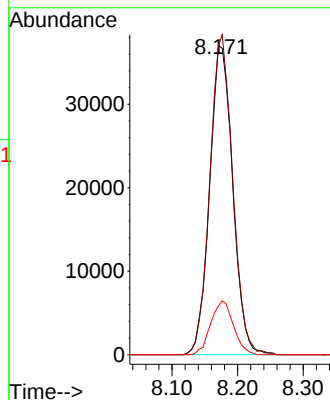
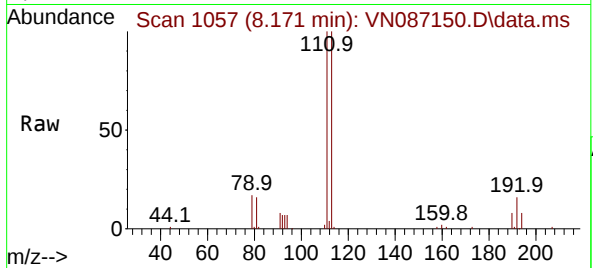




#35
Dibromofluoromethane
Concen: 53.121 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VN087150.D
Acq: 24 Jun 2025 12:44

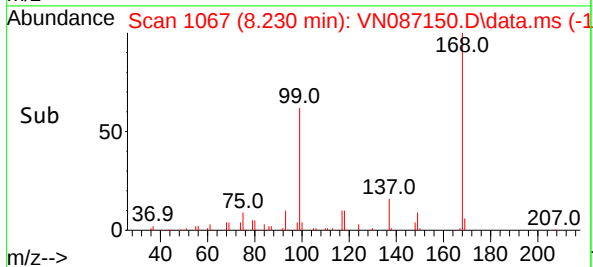
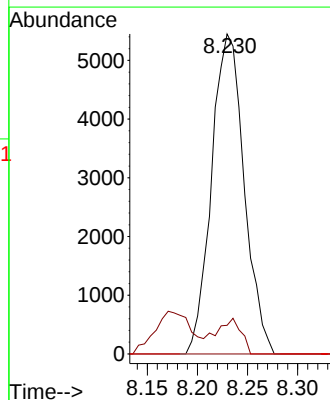
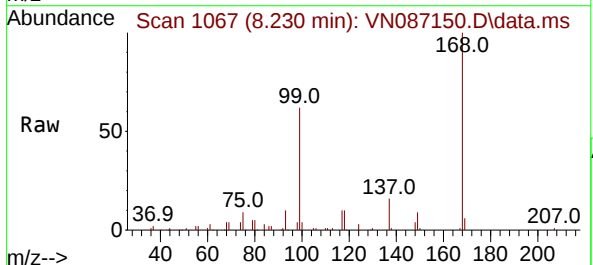
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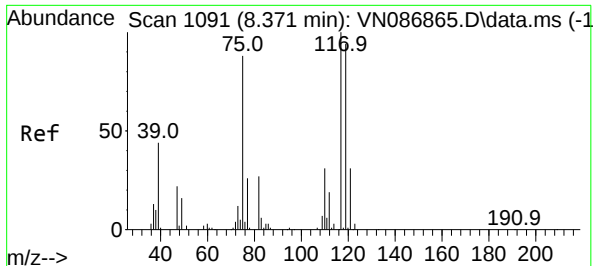
Tgt Ion:113 Resp: 90627
Ion Ratio Lower Upper
113 100
111 102.2 84.2 126.2
192 17.1 14.2 21.4



#36
1,1-Dichloropropene
Concen: 4.851 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN087150.D
Acq: 24 Jun 2025 12:44

Tgt Ion: 75 Resp: 12331
Ion Ratio Lower Upper
75 100
110 8.5 17.6 52.9#
77 0.0 25.3 37.9#

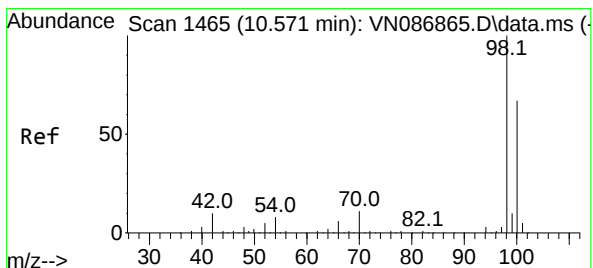
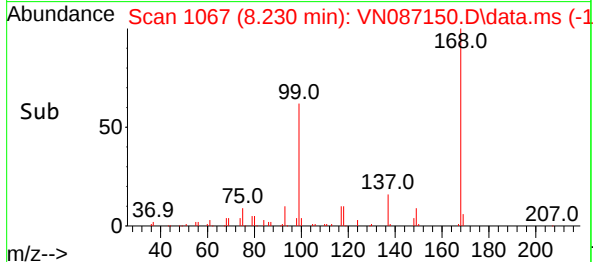
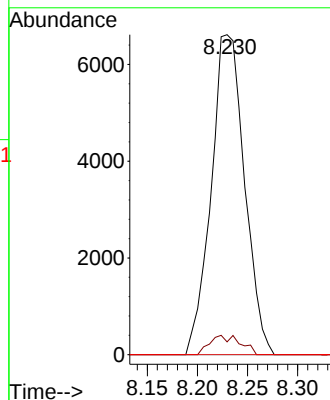
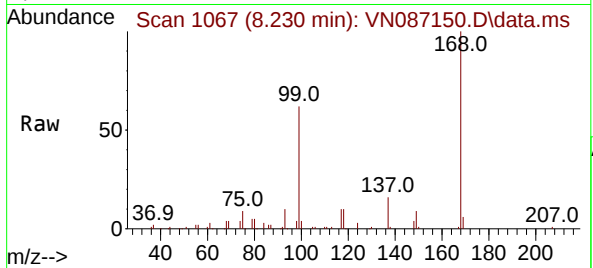




#38
Carbon Tetrachloride
Concen: 6.142 ug/l
RT: 8.230 min Scan# 1091
Delta R.T. -0.141 min
Lab File: VN087150.D
Acq: 24 Jun 2025 12:44

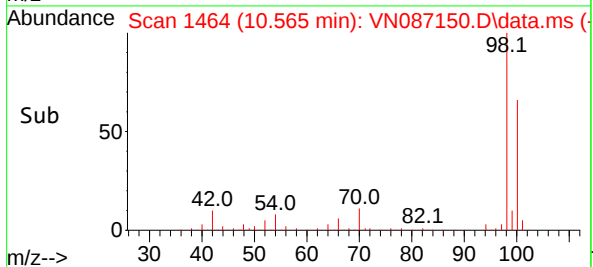
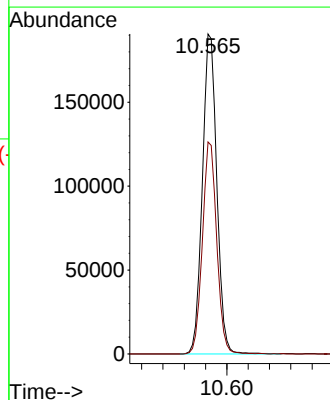
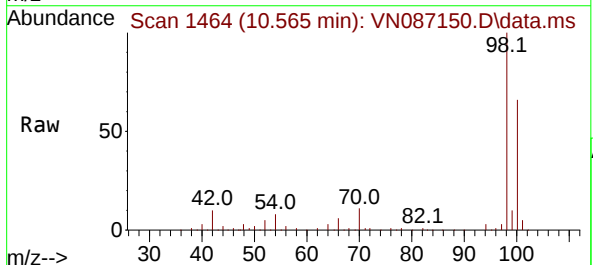
Instrument :
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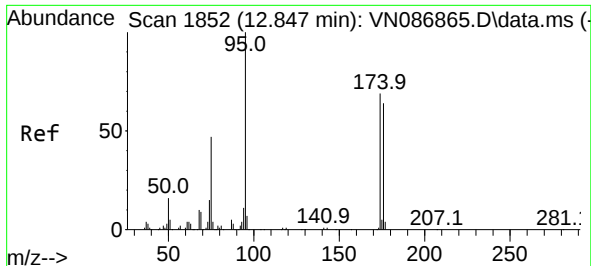
Tgt Ion:117 Resp: 15330
Ion Ratio Lower Upper
117 100
119 4.0 75.0 112.6#
121 0.0 24.9 37.3#



#50
Toluene-d8
Concen: 52.954 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN087150.D
Acq: 24 Jun 2025 12:44

Tgt Ion: 98 Resp: 357644
Ion Ratio Lower Upper
98 100
100 65.8 53.4 80.0

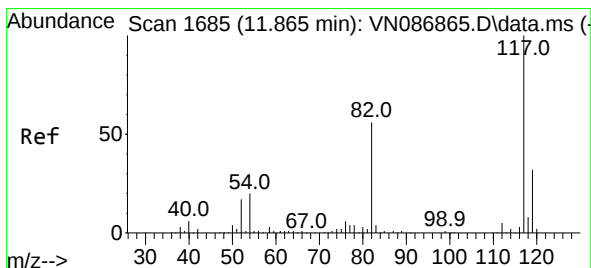
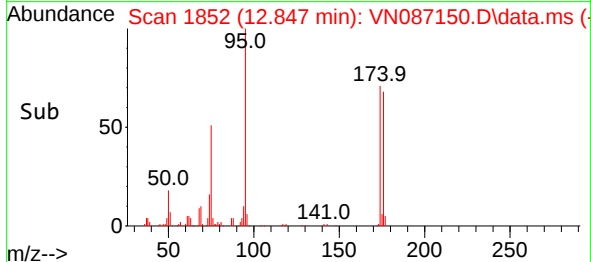
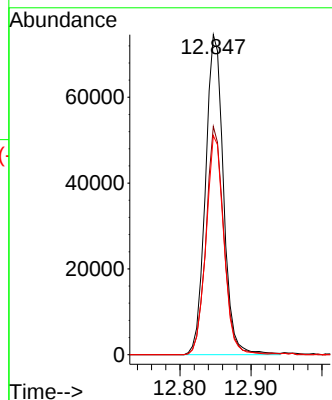
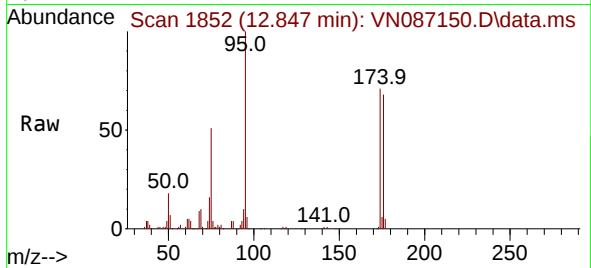




#62
4-Bromofluorobenzene
Concen: 52.390 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087150.D
Acq: 24 Jun 2025 12:44

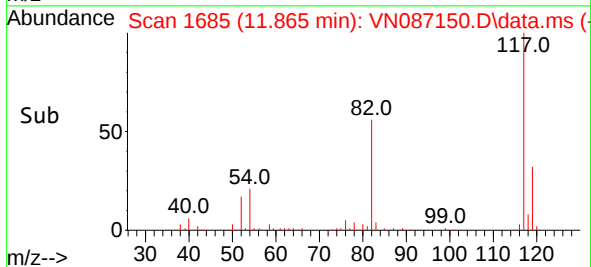
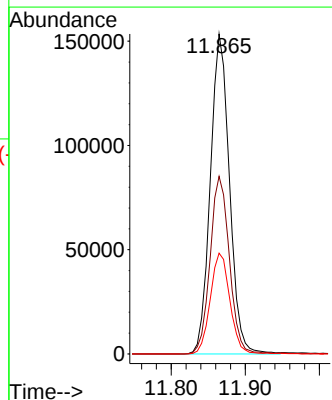
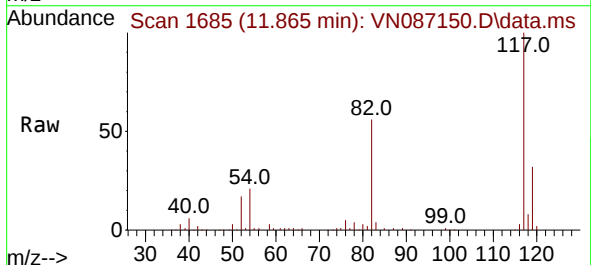
Instrument :
MSVOA_N
ClientSampleId :
VN0624WBL01

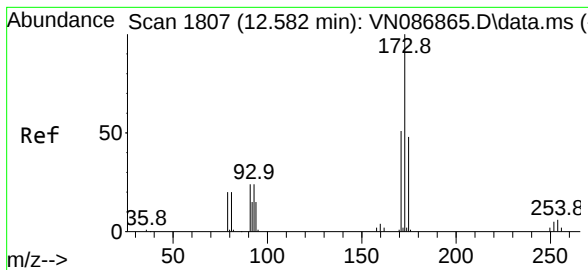
Tgt Ion: 95 Resp: 131459
Ion Ratio Lower Upper
95 100
174 70.6 0.0 141.8
176 67.7 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN087150.D
Acq: 24 Jun 2025 12:44

Tgt Ion: 117 Resp: 275522
Ion Ratio Lower Upper
117 100
82 55.5 44.6 67.0
119 31.5 25.5 38.3





#71

Bromoform

Concen: 0.441 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.270 min

Lab File: VN087150.D

Acq: 24 Jun 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

VN0624WBL01

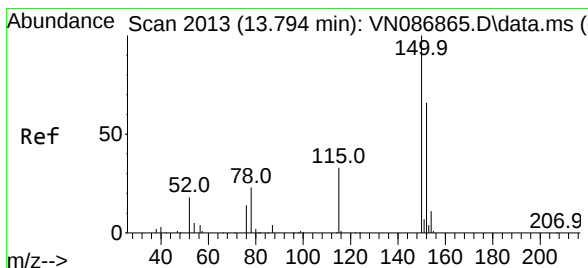
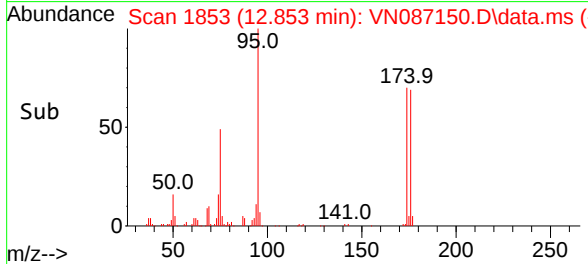
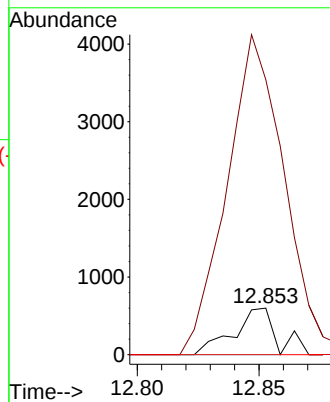
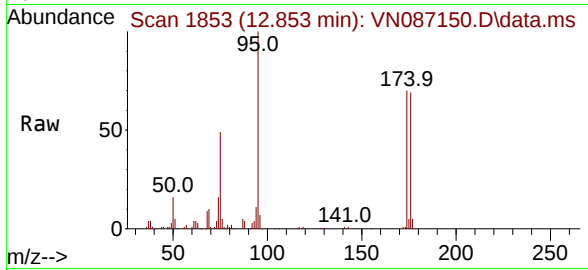
Tgt Ion:173 Resp: 638

Ion Ratio Lower Upper

173 100

175 916.0 24.1 72.4#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.006 min

Lab File: VN087150.D

Acq: 24 Jun 2025 12:44

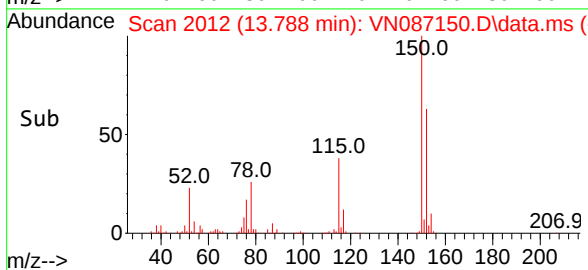
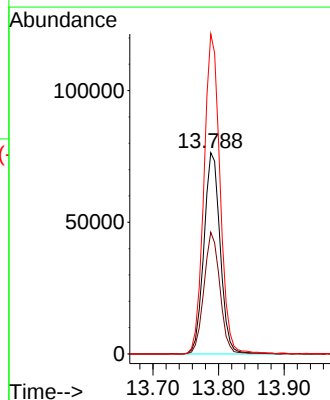
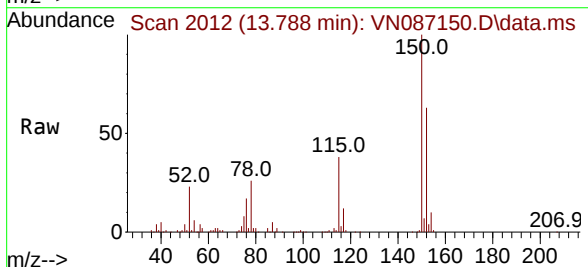
Tgt Ion:152 Resp: 132163

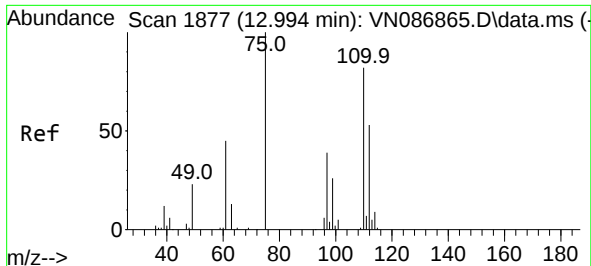
Ion Ratio Lower Upper

152 100

115 59.5 30.1 90.5

150 157.5 0.0 345.0

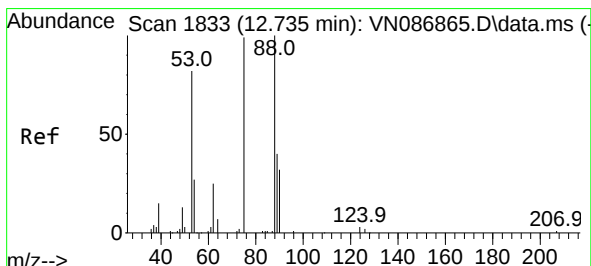
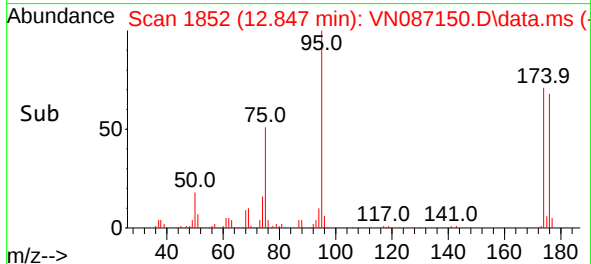
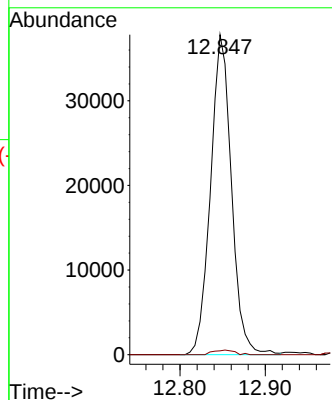
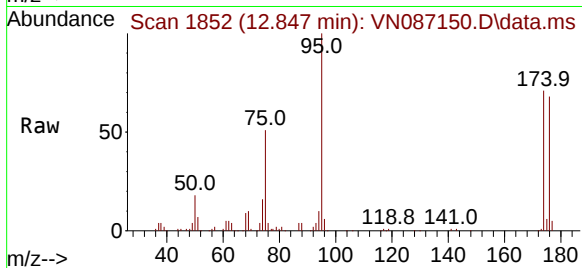




#76
1,2,3-Trichloropropane
Concen: 20.530 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN087150.D
Acq: 24 Jun 2025 12:44

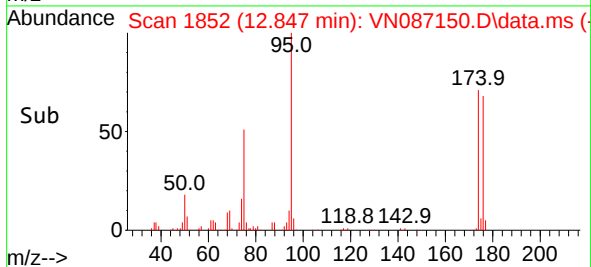
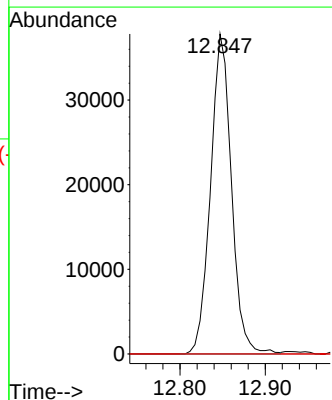
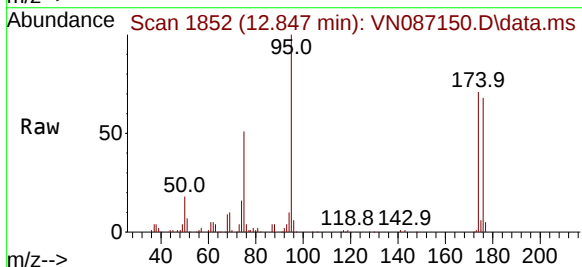
Instrument :
MSVOA_N
ClientSampleId :
VN0624WBL01

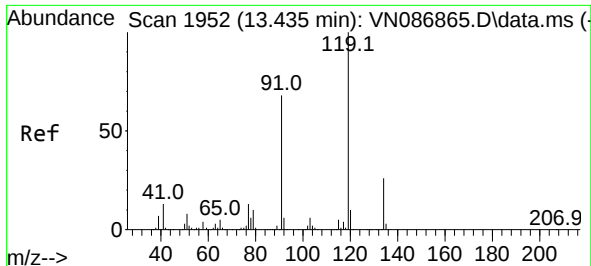
Tgt Ion: 75 Resp: 64497
Ion Ratio Lower Upper
75 100
77 1.5 79.3 237.9#



#81
trans-1,4-Dichloro-2-butene
Concen: 47.260 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN087150.D
Acq: 24 Jun 2025 12:44

Tgt Ion: 75 Resp: 64497
Ion Ratio Lower Upper
75 100
53 0.0 66.6 99.8#
89 0.0 36.7 55.1#





#83

tert-Butylbenzene

Concen: 0.209 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VN087150.D

Acq: 24 Jun 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

VN0624WBL01

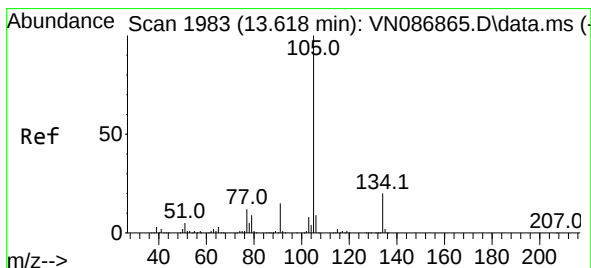
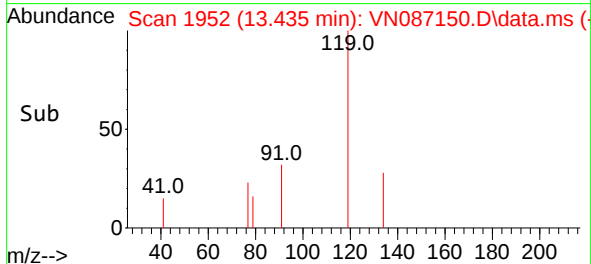
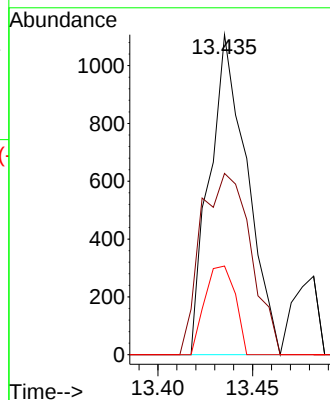
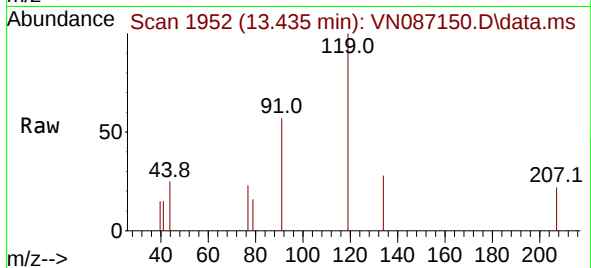
Tgt Ion:119 Resp: 1523

Ion Ratio Lower Upper

119 100

91 75.6 32.1 96.5

134 22.5 13.4 40.1



#85

sec-Butylbenzene

Concen: 0.295 ug/l

RT: 13.612 min Scan# 1982

Delta R.T. -0.006 min

Lab File: VN087150.D

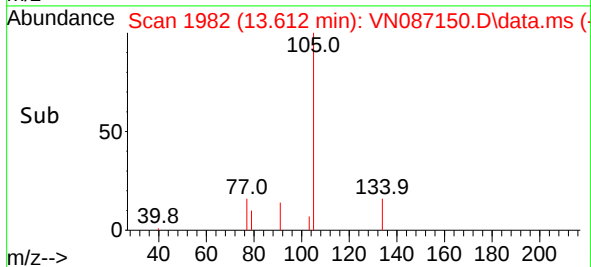
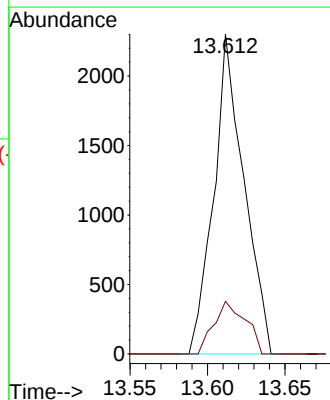
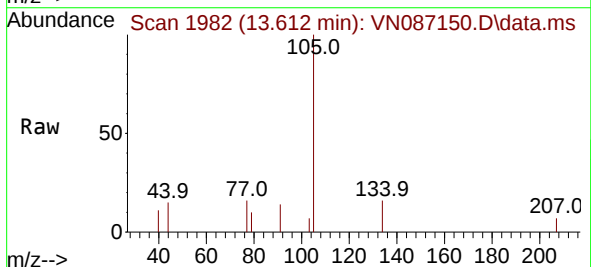
Acq: 24 Jun 2025 12:44

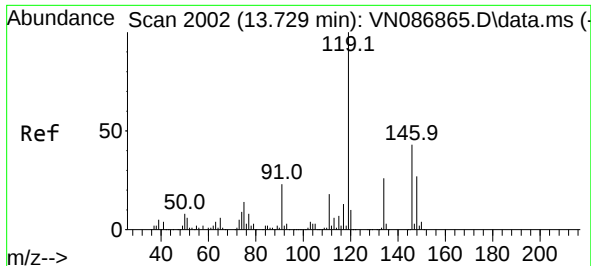
Tgt Ion:105 Resp: 3116

Ion Ratio Lower Upper

105 100

134 17.3 10.0 30.0

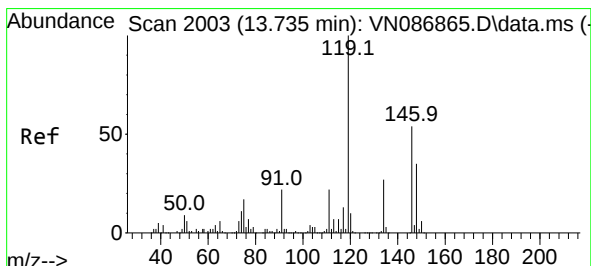
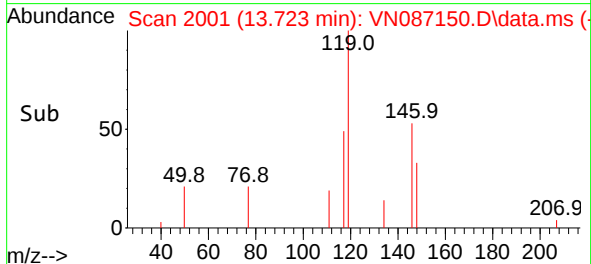
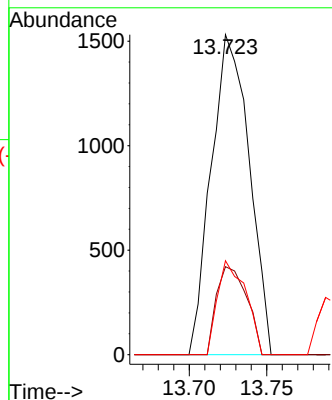
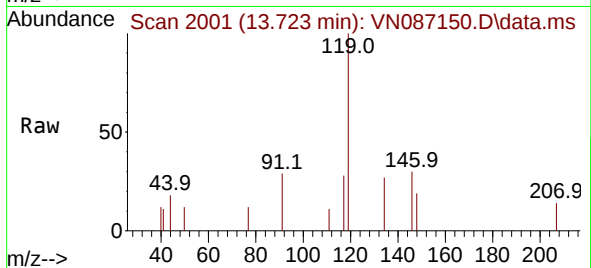




#86
p-Isopropyltoluene
Concen: 0.299 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. -0.006 min
Lab File: VN087150.D
Acq: 24 Jun 2025 12:44

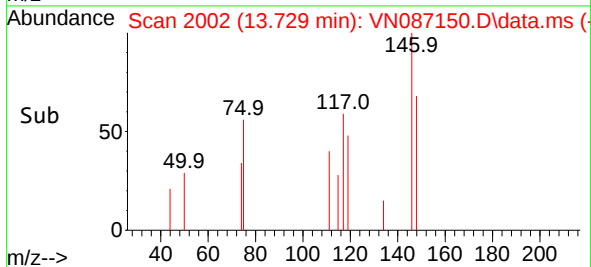
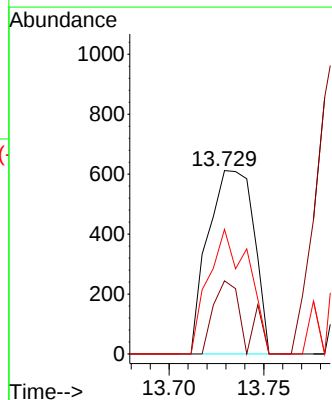
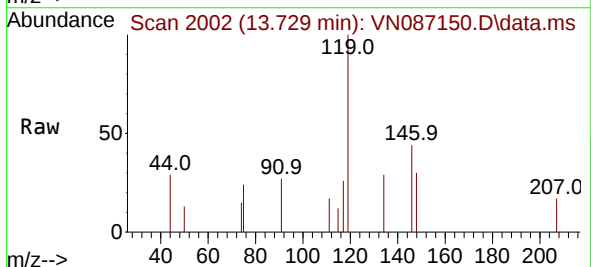
Instrument :
MSVOA_N
ClientSampleId :
VN0624WBL01

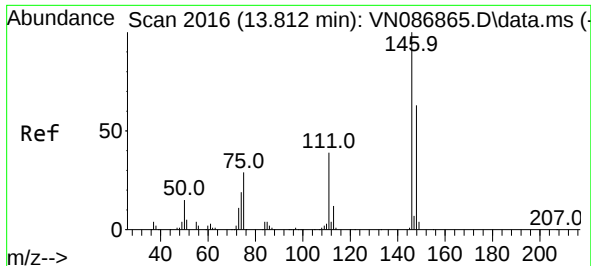
Tgt Ion:	119	Resp:	2608
Ion	Ratio	Lower	Upper
119	100		
134	22.0	13.5	40.4
91	21.9	11.5	34.4



#87
1,3-Dichlorobenzene
Concen: 0.237 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.006 min
Lab File: VN087150.D
Acq: 24 Jun 2025 12:44

Tgt Ion:	146	Resp:	1031
Ion	Ratio	Lower	Upper
146	100		
111	27.1	20.9	62.8
148	59.4	32.0	96.2

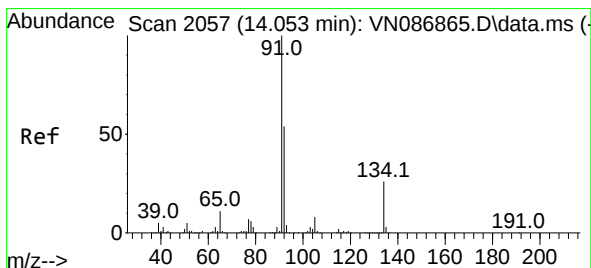
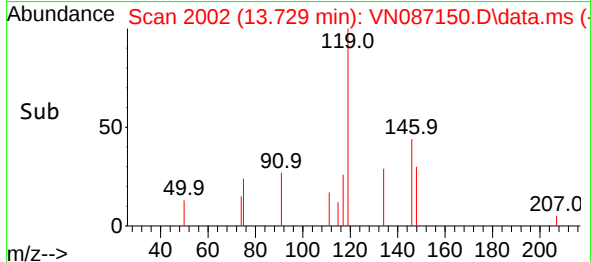
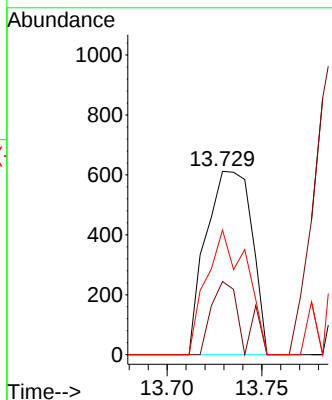
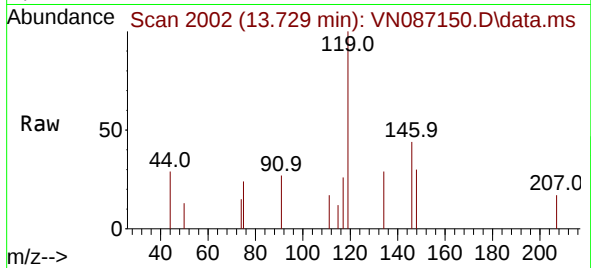




#88
1,4-Dichlorobenzene
Concen: 0.233 ug/l
RT: 13.729 min Scan# 2016
Delta R.T. -0.082 min
Lab File: VN087150.D
Acq: 24 Jun 2025 12:44

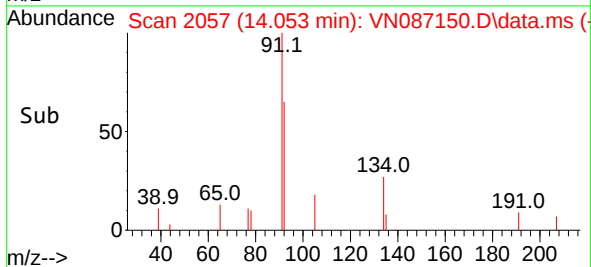
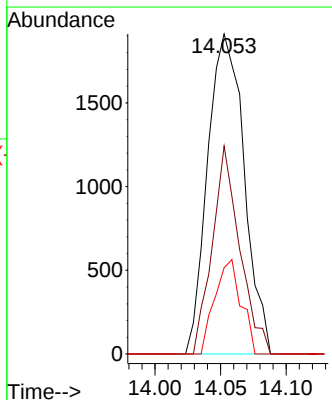
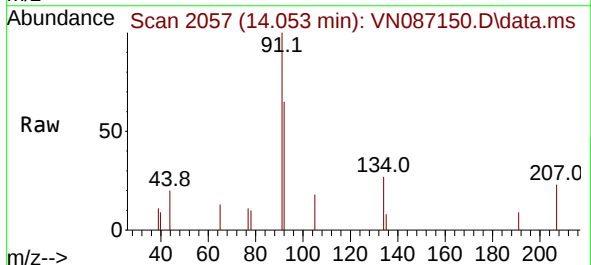
Instrument :
MSVOA_N
ClientSampleId :
VN0624WBL01

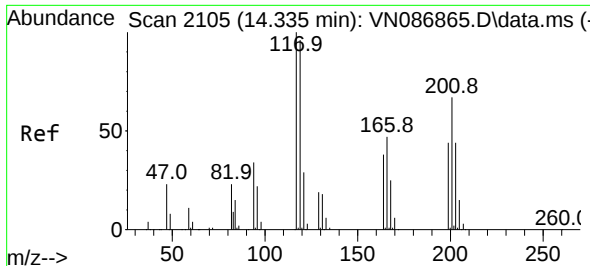
Tgt Ion:146 Resp: 1031
Ion Ratio Lower Upper
146 100
111 27.1 19.9 59.7
148 59.4 31.8 95.4



#89
n-Butylbenzene
Concen: 0.438 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN087150.D
Acq: 24 Jun 2025 12:44

Tgt Ion: 91 Resp: 3703
Ion Ratio Lower Upper
91 100
92 48.9 27.5 82.4
134 21.2 13.0 39.0

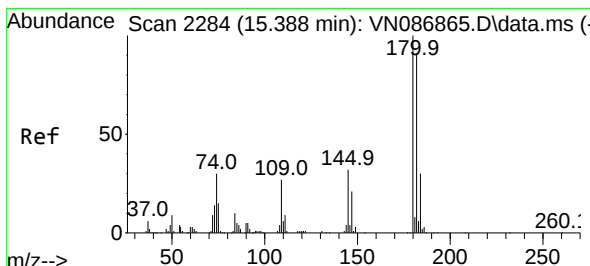
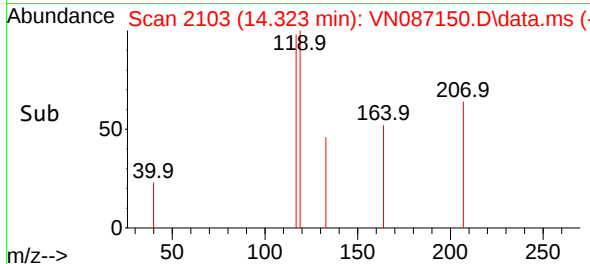
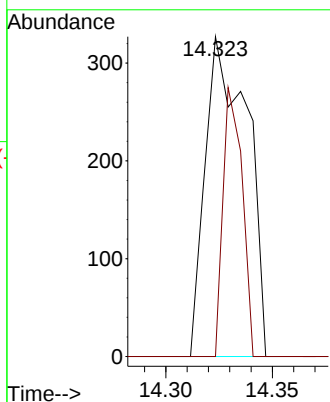
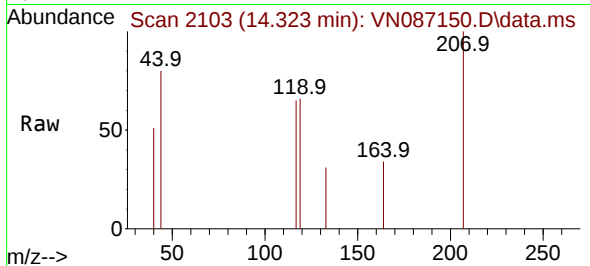




#90
Hexachloroethane
Concen: 0.301 ug/l
RT: 14.323 min Scan# 2105
Delta R.T. -0.012 min
Lab File: VN087150.D
Acq: 24 Jun 2025 12:44

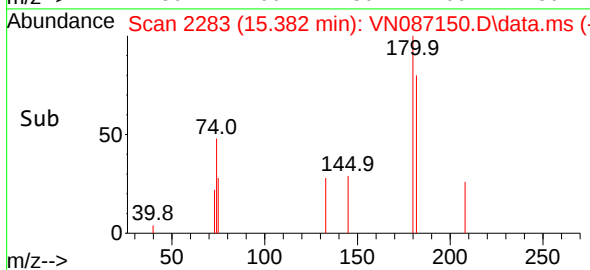
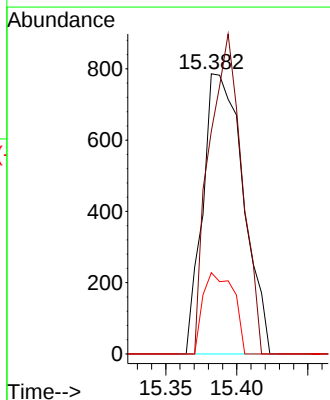
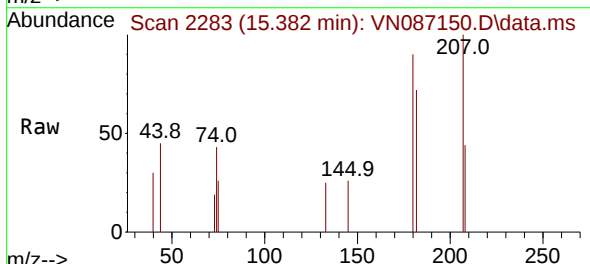
Instrument :
MSVOA_N
ClientSampleId :
VN0624WBL01

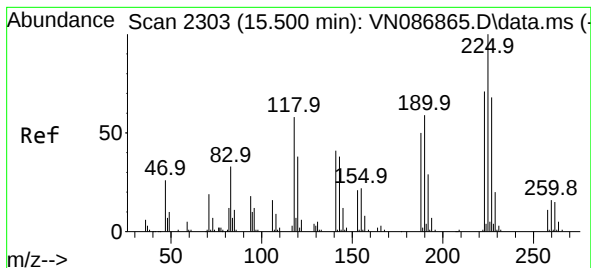
Tgt Ion:117 Resp: 446
Ion Ratio Lower Upper
117 100
201 38.3 33.2 99.6



#93
1,2,4-Trichlorobenzene
Concen: 0.584 ug/l
RT: 15.382 min Scan# 2283
Delta R.T. -0.006 min
Lab File: VN087150.D
Acq: 24 Jun 2025 12:44

Tgt Ion:180 Resp: 1556
Ion Ratio Lower Upper
180 100
182 92.7 46.9 140.7
145 21.9 16.0 47.9





#94

Hexachlorobutadiene

Concen: 1.626 ug/l

RT: 15.494 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN087150.D

Acq: 24 Jun 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

VN0624WBL01

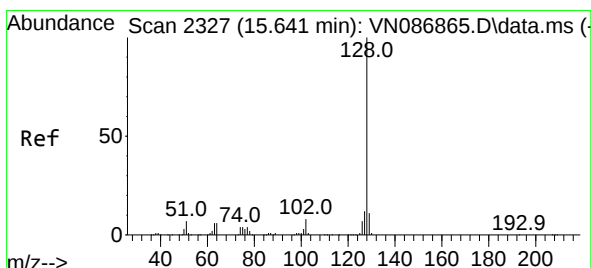
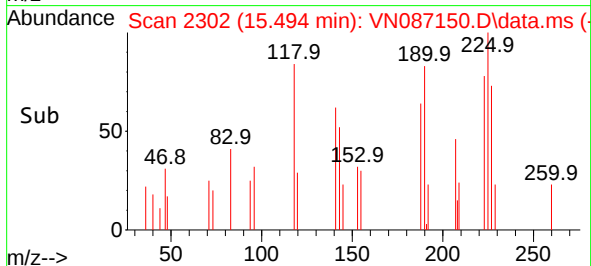
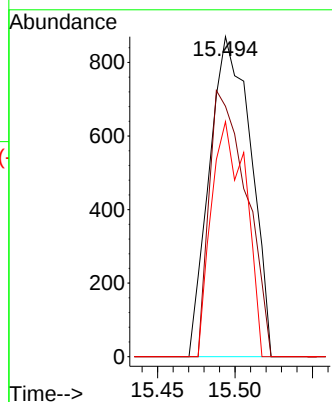
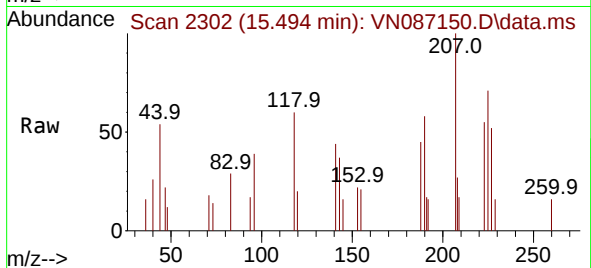
Tgt Ion:225 Resp: 1615

Ion Ratio Lower Upper

225 100

223 75.1 33.5 100.4

227 61.4 31.1 93.5



#95

Naphthalene

Concen: 0.349 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. -0.006 min

Lab File: VN087150.D

Acq: 24 Jun 2025 12:44

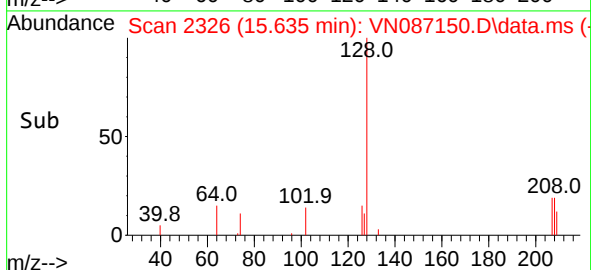
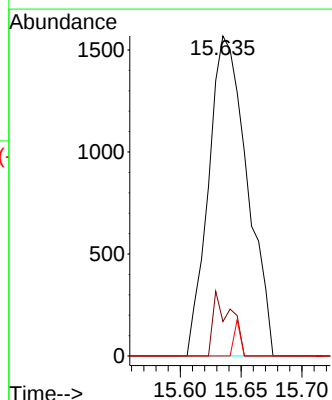
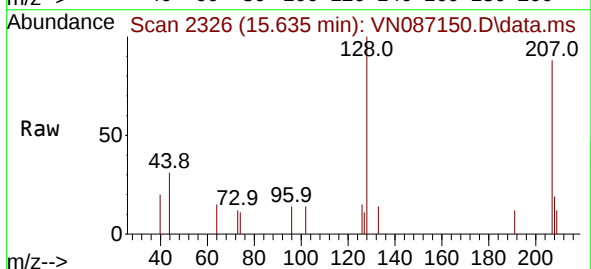
Tgt Ion:128 Resp: 3458

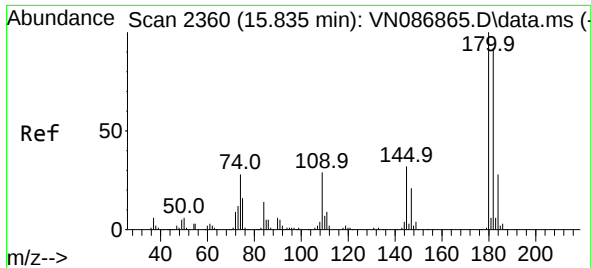
Ion Ratio Lower Upper

128 100

127 9.3 10.2 15.2#

129 1.8 8.8 13.2#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.495 ug/l
 RT: 15.835 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN087150.D
 Acq: 24 Jun 2025 12:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0624WBL01

Tgt Ion:	180	Resp:	1311
Ion	Ratio	Lower	Upper
180	100		
182	118.6	47.0	141.0
145	31.9	16.6	49.8

