

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092425\
 Data File : VN087941.D
 Acq On : 24 Sep 2025 12:07
 Operator : JC\MD
 Sample : PB169792TB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB169792TB

Quant Time: Sep 25 03:09:23 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)

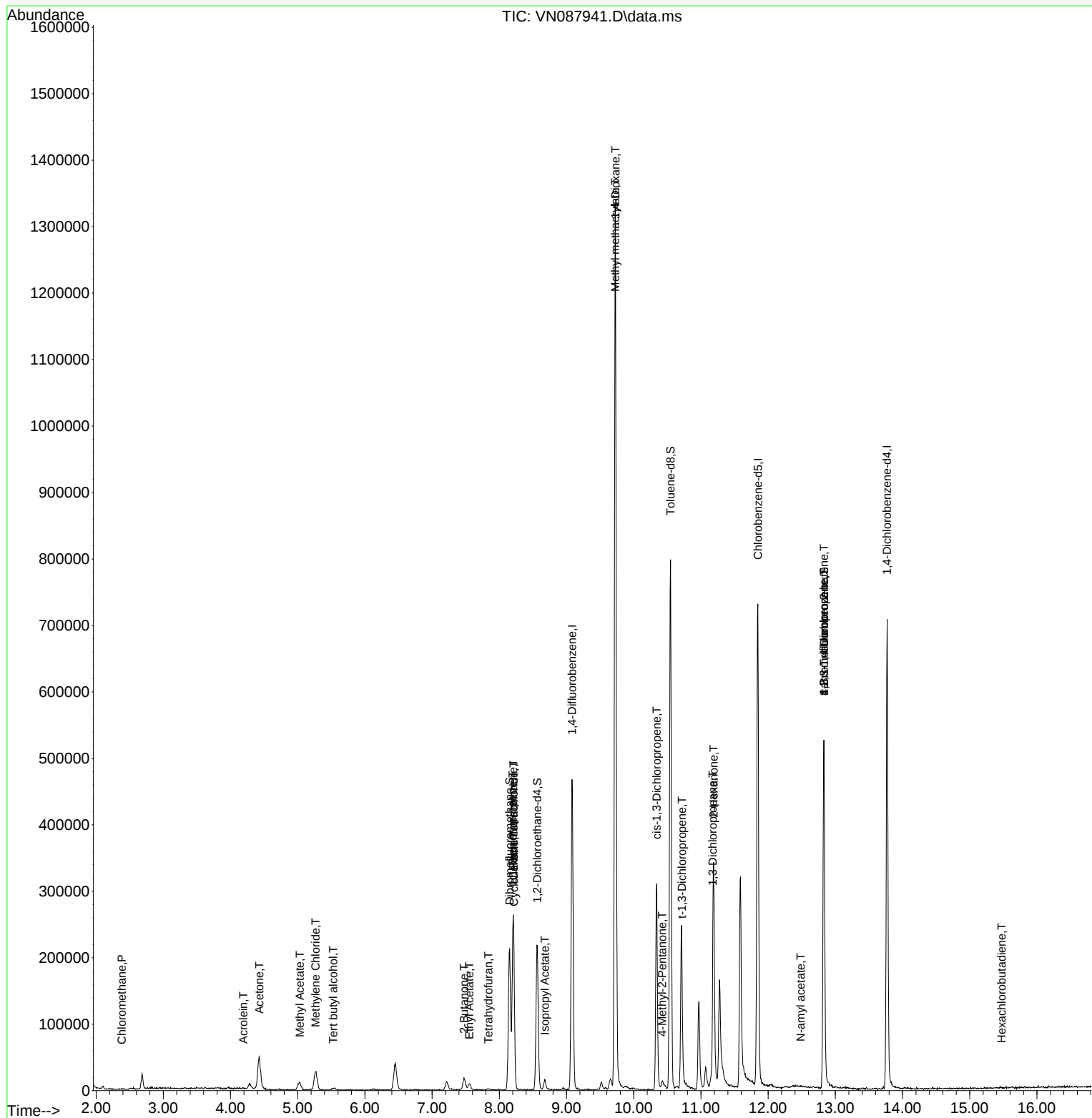
Internal Standards						
1) Pentafluorobenzene	8.206	168	180149	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	402801	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	422045	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	192340	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	181542	59.880	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 119.760%		
35) Dibromofluoromethane	8.153	113	153017	52.321	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 104.640%		
50) Toluene-d8	10.547	98	538289	52.340	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 104.680%		
62) 4-Bromofluorobenzene	12.829	95	184629	50.223	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 100.440%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.383	50	774	0.362	ug/l #	9
11) Tert butyl alcohol	5.530	59	2071	4.743	ug/l #	90
13) Acrolein	4.189	56	249	0.444	ug/l #	12
16) Acetone	4.430	43	93095	74.631	ug/l	97
18) Methyl Acetate	5.030	43	25252	8.089	ug/l #	84
20) Methylene Chloride	5.265	84	23098	9.148	ug/l	99
25) 2-Butanone	7.477	43	29040	15.231	ug/l	98
29) Tetrahydrofuran	7.836	42	1023	0.838	ug/l #	65
31) Cyclohexane	8.218	56	5297	1.558	ug/l #	45
36) 1,1-Dichloropropene	8.200	75	16046	4.563	ug/l #	51
37) Ethyl Acetate	7.553	43	16126	3.492	ug/l #	86
38) Carbon Tetrachloride	8.212	117	20713	5.133	ug/l #	19
43) Isopropyl Acetate	8.677	43	15639	2.152	ug/l	93
48) Methyl methacrylate	9.724	41	124425	36.964	ug/l #	41
49) 1,4-Dioxane	9.730	88	203	4.082	ug/l #	1
51) 4-Methyl-2-Pentanone	10.424	43	7540	1.662	ug/l	88
53) t-1,3-Dichloropropene	10.718	75	1013	0.219	ug/l	91
54) cis-1,3-Dichloropropene	10.341	75	53309	11.098	ug/l #	71
57) 1,3-Dichloropropane	11.177	76	4358	0.892	ug/l #	42
59) 2-Hexanone	11.188	43	72407	24.143	ug/l #	55
74) N-amyl acetate	12.482	43	1384	0.352	ug/l #	48
76) 1,2,3-Trichloropropane	12.829	75	98496	25.978	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	98496	72.138	ug/l #	9
94) Hexachlorobutadiene	15.476	225	376	0.290	ug/l #	40

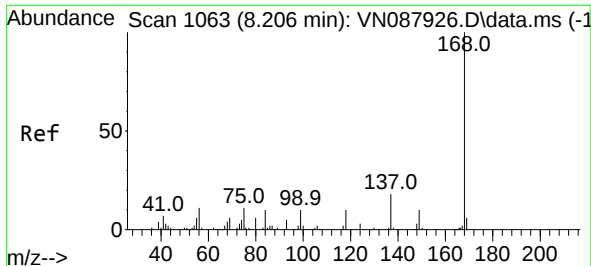
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 25 03:09:23 2025
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Quant Title : SW846 8260
QLast Update : Wed Sep 24 05:05:30 2025
Response via : Initial Calibration

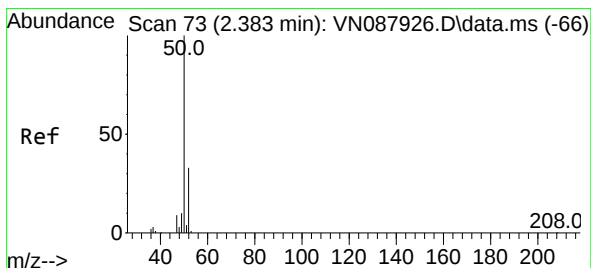
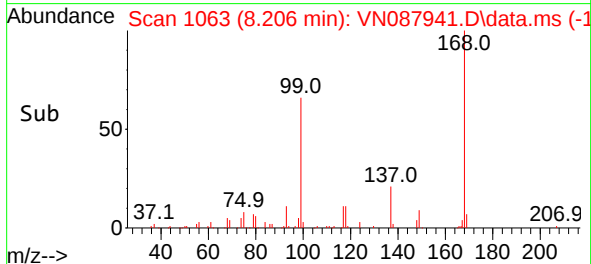
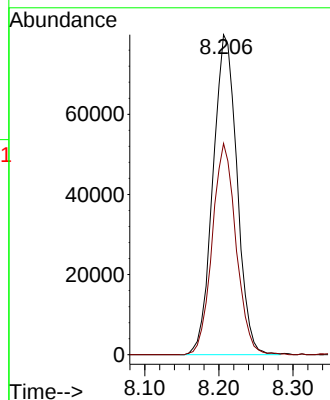
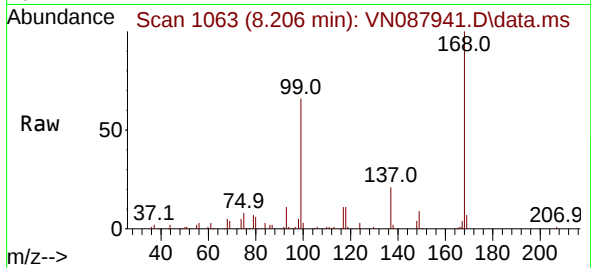




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN087941.D
Acq: 24 Sep 2025 12:07

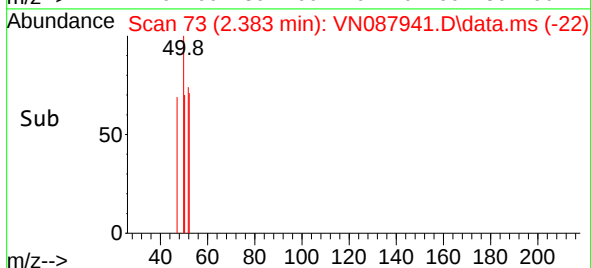
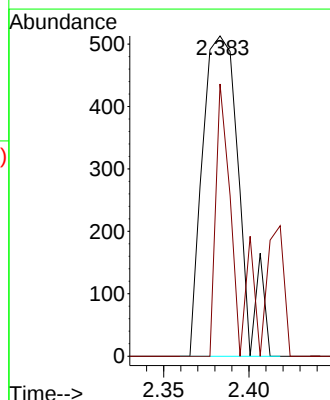
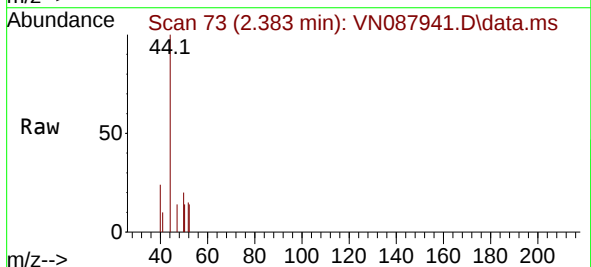
Instrument :
MSVOA_N
ClientSampleId :
PB169792TB

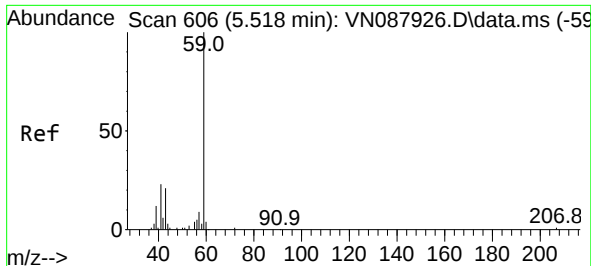
Tgt Ion:168 Resp: 180149
Ion Ratio Lower Upper
168 100
99 66.0 52.2 78.2



#3
Chloromethane
Concen: 0.362 ug/l
RT: 2.383 min Scan# 73
Delta R.T. 0.000 min
Lab File: VN087941.D
Acq: 24 Sep 2025 12:07

Tgt Ion: 50 Resp: 774
Ion Ratio Lower Upper
50 100
52 85.0 26.6 40.0#

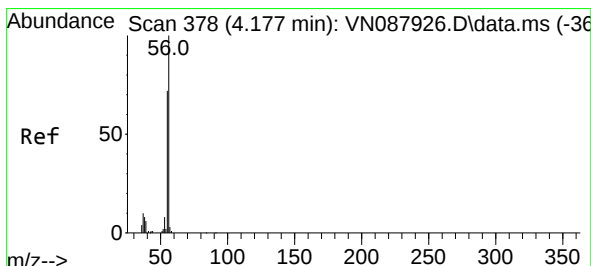
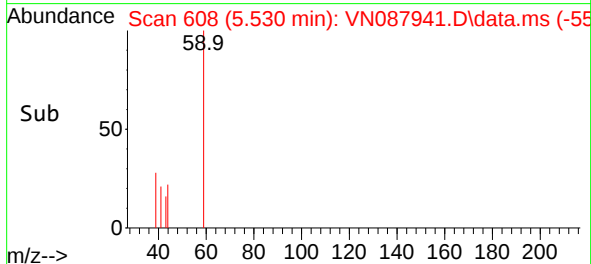
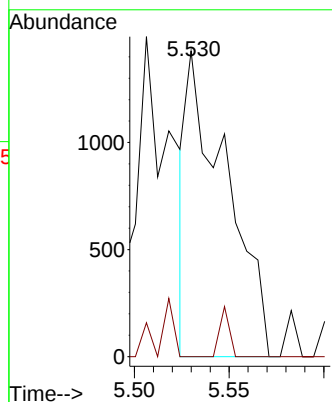
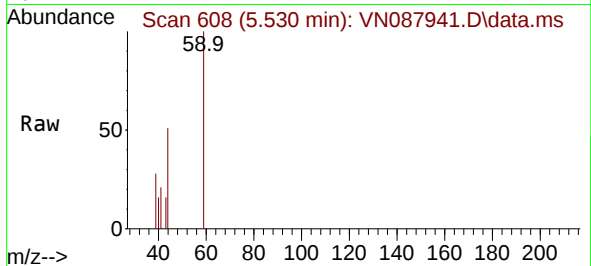




#11
Tert butyl alcohol
Concen: 4.743 ug/l
RT: 5.530 min Scan# 606
Delta R.T. 0.012 min
Lab File: VN087941.D
Acq: 24 Sep 2025 12:07

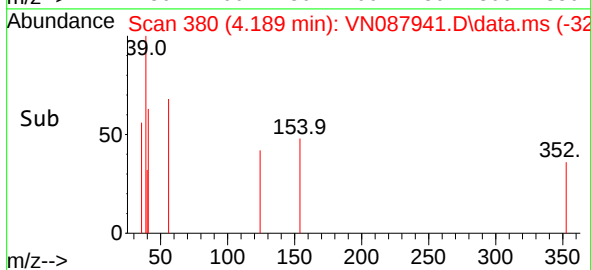
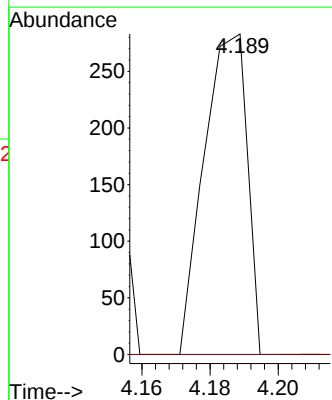
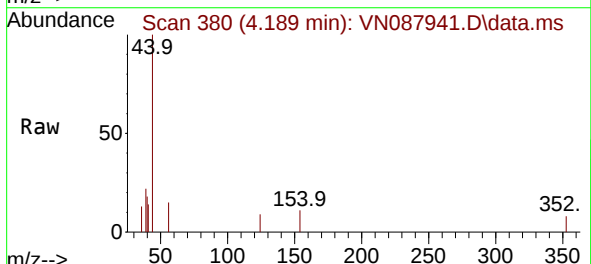
Instrument :
MSVOA_N
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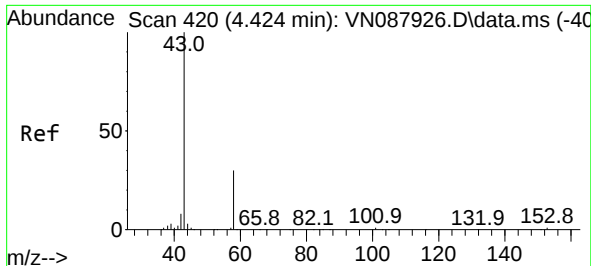
Tgt Ion: 59 Resp: 2071
Ion Ratio Lower Upper
59 100
57 7.3 8.8 13.2#



#13
Acrolein
Concen: 0.444 ug/l
RT: 4.189 min Scan# 380
Delta R.T. 0.012 min
Lab File: VN087941.D
Acq: 24 Sep 2025 12:07

Tgt Ion: 56 Resp: 249
Ion Ratio Lower Upper
56 100
55 0.0 59.3 88.9#

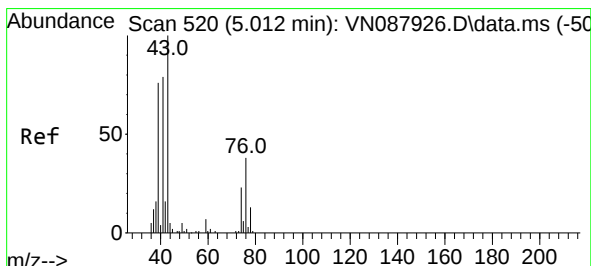
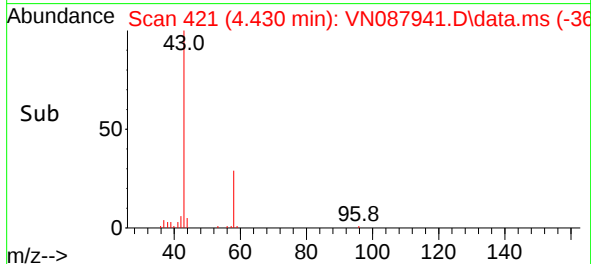
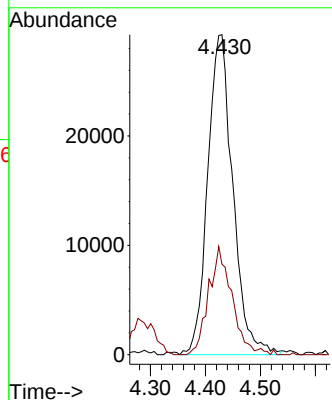
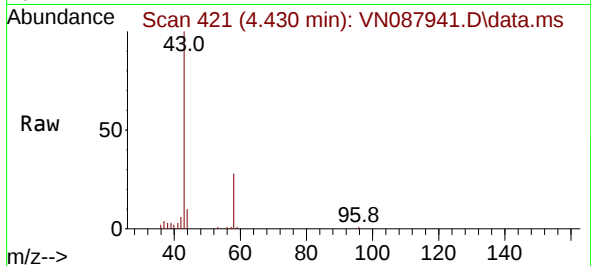




#16
Acetone
Concen: 74.631 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN087941.D
Acq: 24 Sep 2025 12:07

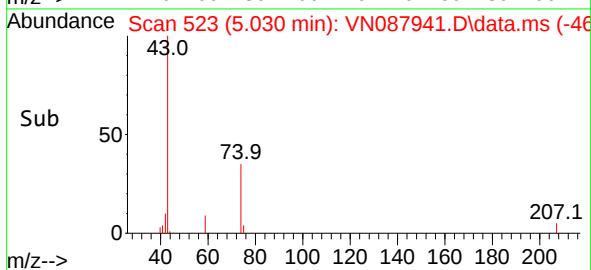
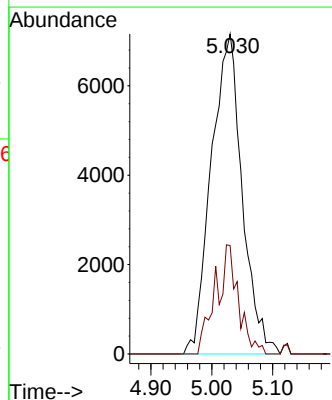
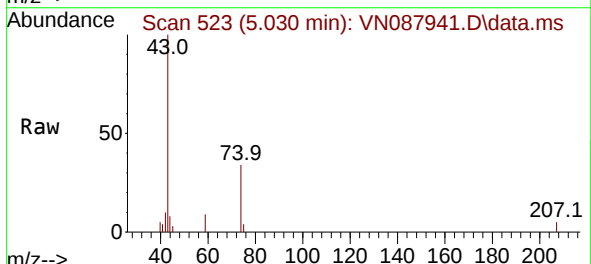
Instrument :
MSVOA_N
ClientSampleId :
PB169792TB

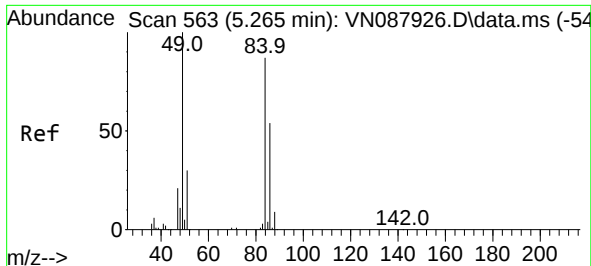
Tgt Ion: 43 Resp: 93095
Ion Ratio Lower Upper
43 100
58 28.3 24.1 36.1



#18
Methyl Acetate
Concen: 8.089 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.018 min
Lab File: VN087941.D
Acq: 24 Sep 2025 12:07

Tgt Ion: 43 Resp: 25252
Ion Ratio Lower Upper
43 100
74 16.8 19.7 29.5#

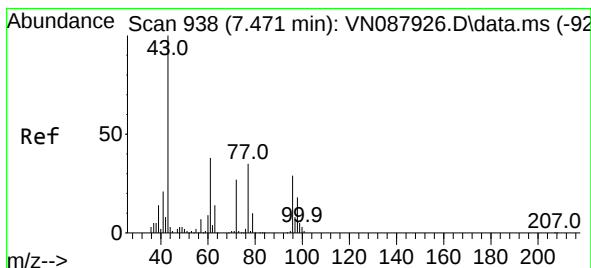
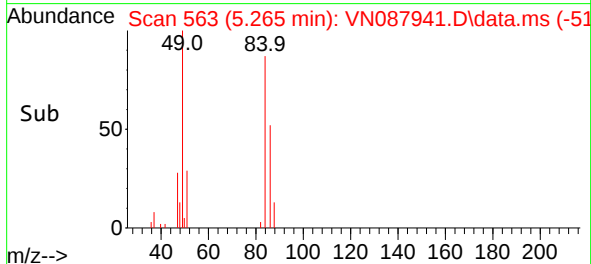
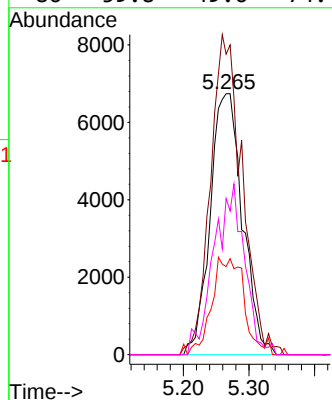
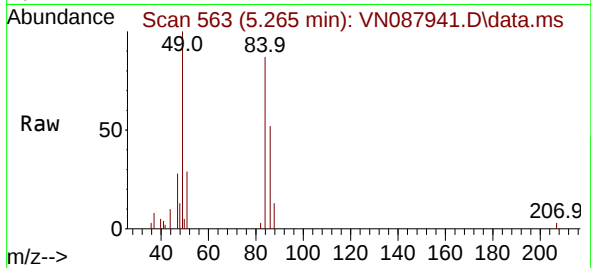




#20
Methylene Chloride
Concen: 9.148 ug/l
RT: 5.265 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN087941.D
Acq: 24 Sep 2025 12:07

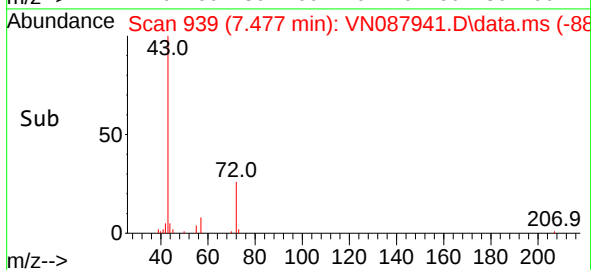
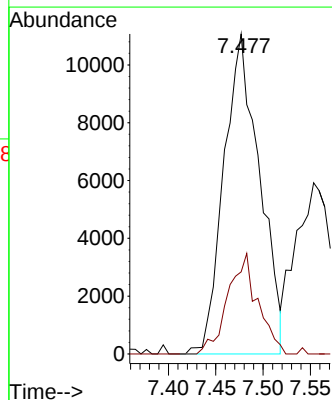
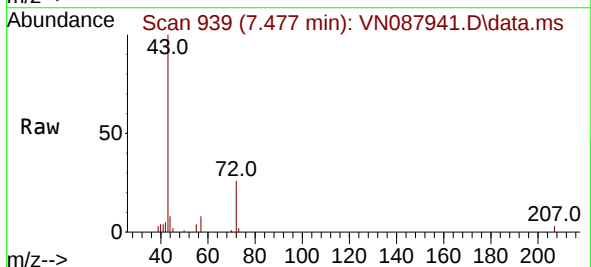
Instrument :
MSVOA_N
ClientSampleId :
PB169792TB

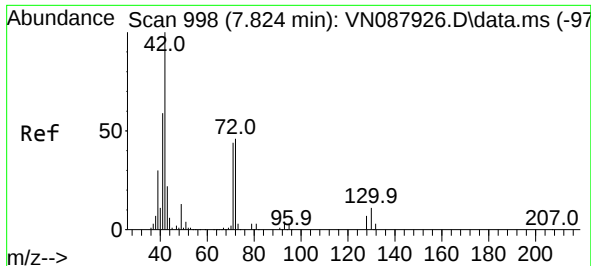
Tgt Ion:	84	Resp:	23098
Ion	Ratio	Lower	Upper
84	100		
49	115.1	92.1	138.1
51	33.8	27.7	41.5
86	59.8	49.6	74.4



#25
2-Butanone
Concen: 15.231 ug/l
RT: 7.477 min Scan# 939
Delta R.T. 0.006 min
Lab File: VN087941.D
Acq: 24 Sep 2025 12:07

Tgt Ion:	43	Resp:	29040
Ion	Ratio	Lower	Upper
43	100		
72	25.7	21.5	32.3





#29

Tetrahydrofuran

Concen: 0.838 ug/l

RT: 7.836 min Scan# 1023

Delta R.T. 0.012 min

Lab File: VN087941.D

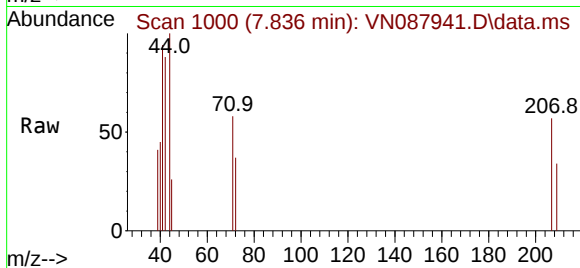
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Instrument :

MSVOA_N

ClientSampleId :

PB169792TB



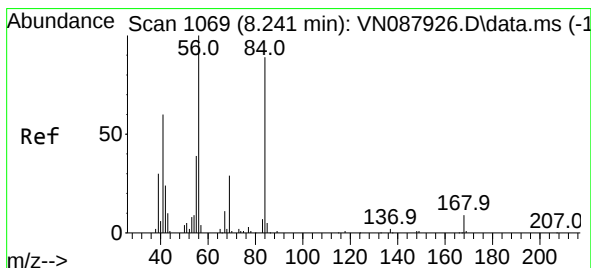
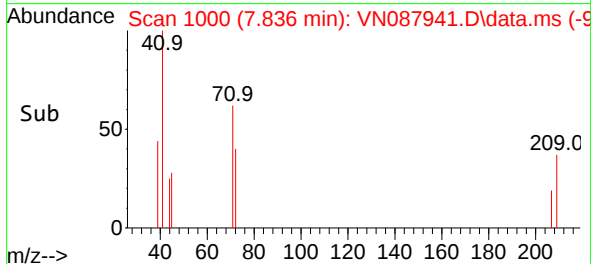
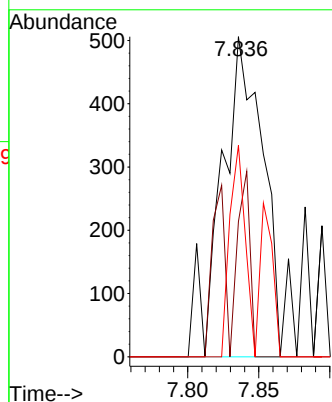
Tgt Ion: 42 Resp: 1023

Ion Ratio Lower Upper

42 100

72 17.5 36.5 54.7#

71 24.8 33.8 50.8#



#31

Cyclohexane

Concen: 1.558 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.023 min

Lab File: VN087941.D

Acq: 24 Sep 2025 12:07

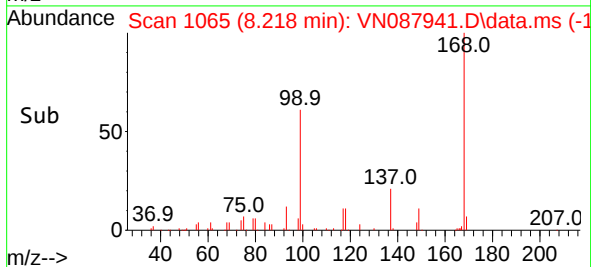
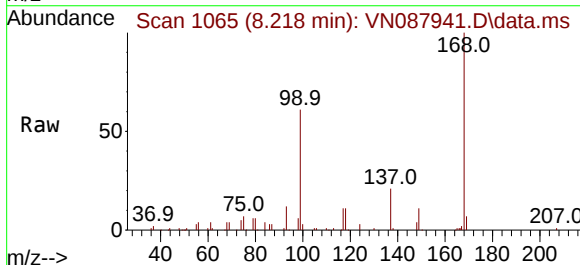
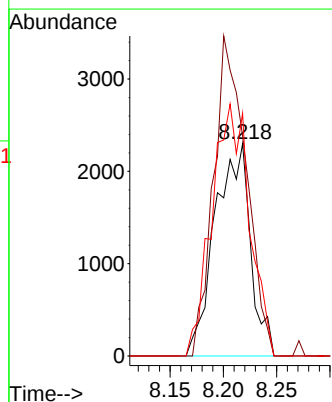
Tgt Ion: 56 Resp: 5297

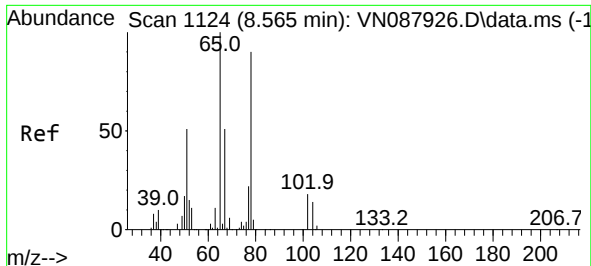
Ion Ratio Lower Upper

56 100

69 103.7 23.4 35.0#

84 114.4 70.8 106.2#

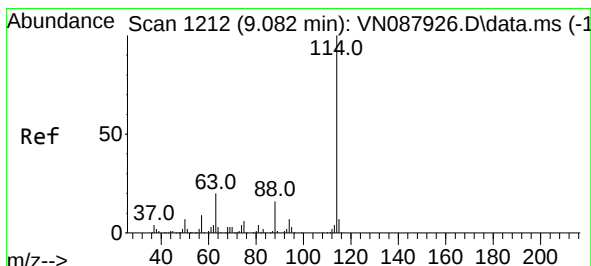
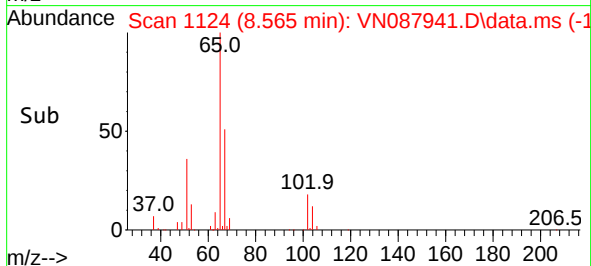
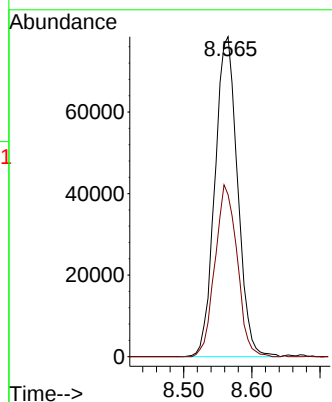
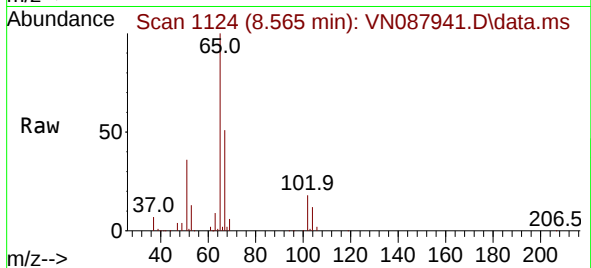




#33
 1,2-Dichloroethane-d4
 Concen: 59.880 ug/l
 RT: 8.565 min Scan# 1124
 Delta R.T. 0.000 min
 Lab File: VN087941.D
 Acq: 24 Sep 2025 12:07

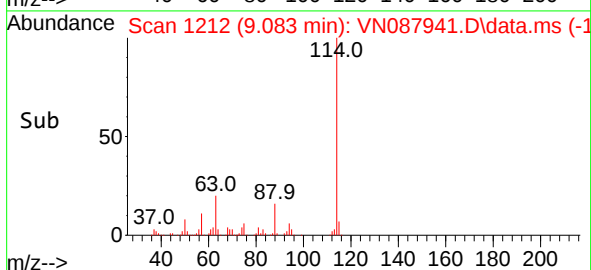
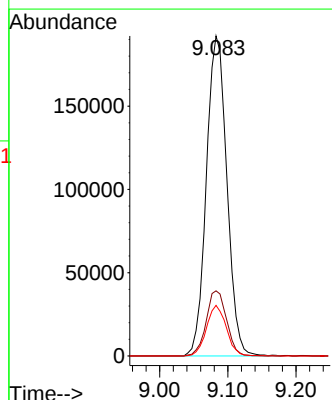
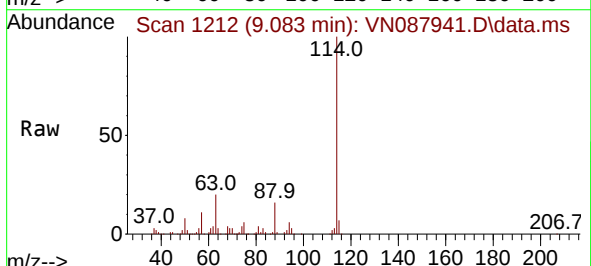
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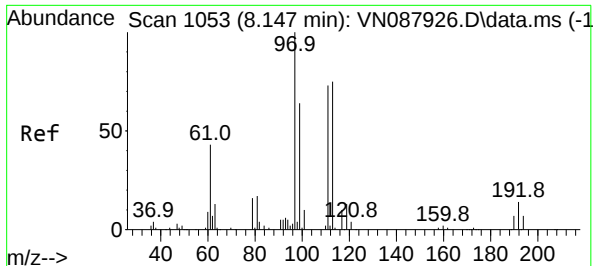
Tgt Ion: 65 Resp: 181542
 Ion Ratio Lower Upper
 65 100
 67 52.5 0.0 103.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.083 min Scan# 1212
 Delta R.T. 0.000 min
 Lab File: VN087941.D
 Acq: 24 Sep 2025 12:07

Tgt Ion: 114 Resp: 402801
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 40.0
 88 15.8 0.0 31.8





#35

Dibromofluoromethane

Concen: 52.321 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.006 min

Lab File: VN087941.D

Acq: 24 Sep 2025 12:07

Instrument :

MSVOA_N

ClientSampleId :

PB169792TB

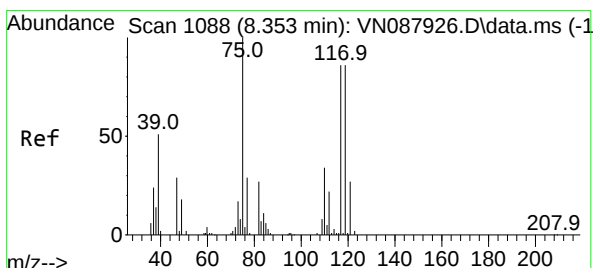
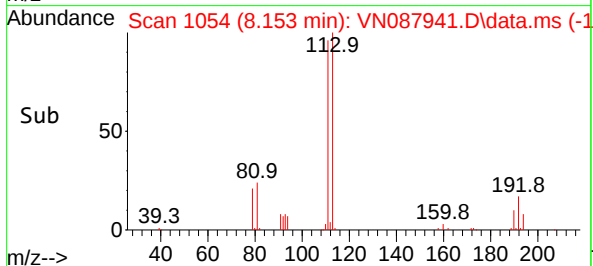
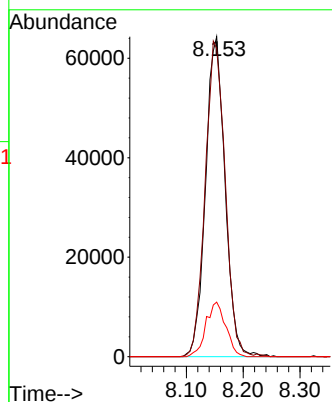
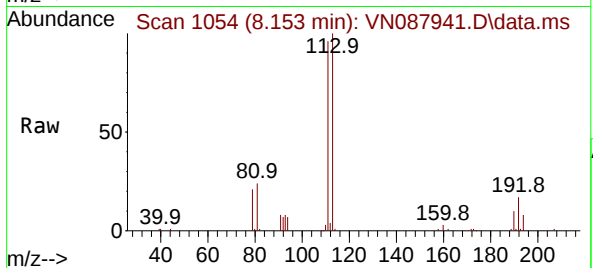
Tgt Ion:113 Resp: 153017

Ion Ratio Lower Upper

113 100

111 101.0 82.2 123.2

192 17.4 14.2 21.2



#36

1,1-Dichloropropene

Concen: 4.563 ug/l

RT: 8.200 min Scan# 1062

Delta R.T. -0.153 min

Lab File: VN087941.D

Acq: 24 Sep 2025 12:07

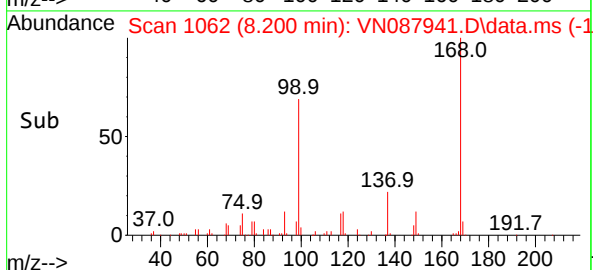
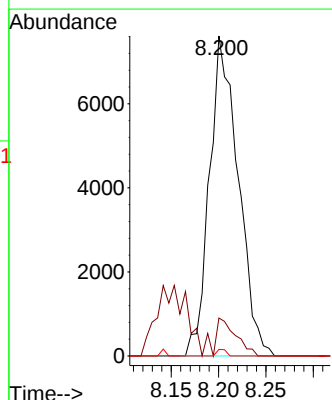
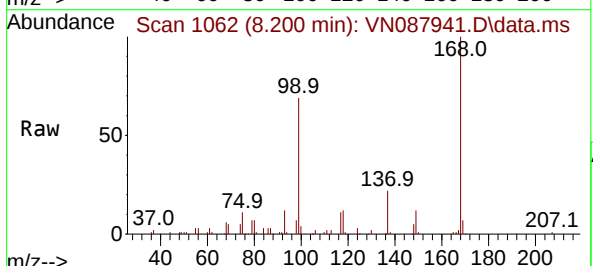
Tgt Ion: 75 Resp: 16046

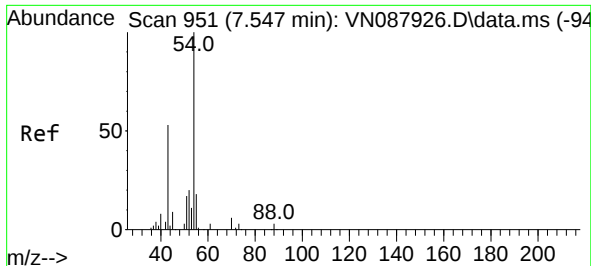
Ion Ratio Lower Upper

75 100

110 9.0 17.1 51.3#

77 0.7 24.8 37.2#

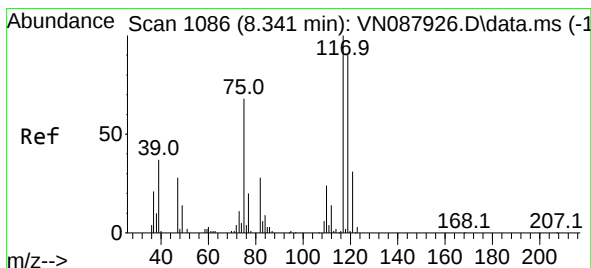
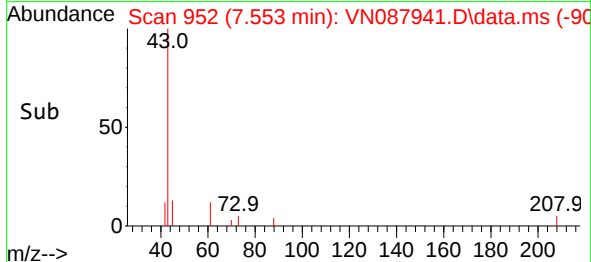
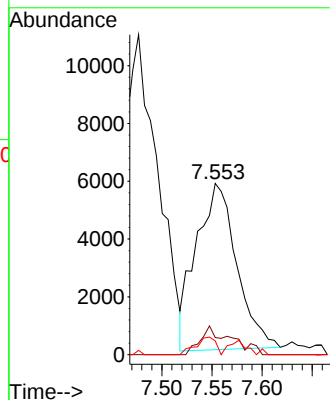
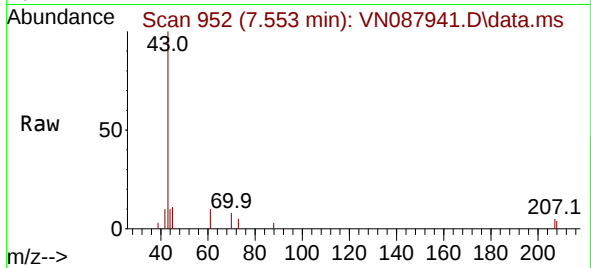




#37
Ethyl Acetate
Concen: 3.492 ug/l
RT: 7.553 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN087941.D
Acq: 24 Sep 2025 12:07

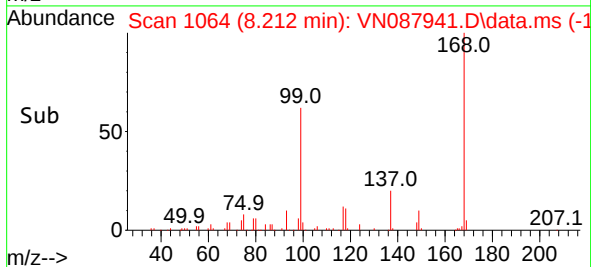
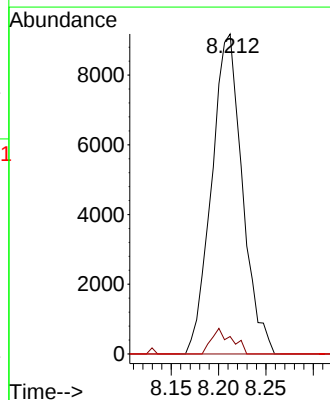
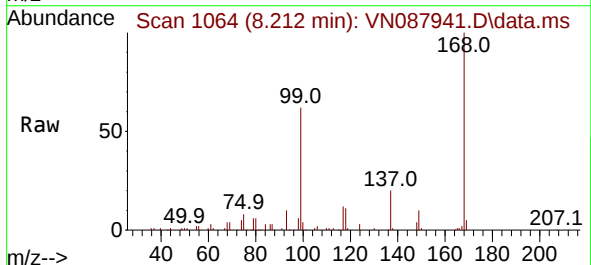
Instrument :
MSVOA_N
ClientSampleId :
PB169792TB

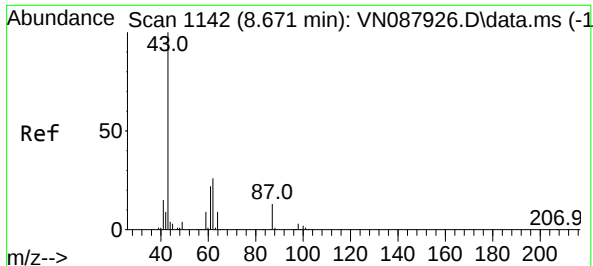
Tgt Ion: 43 Resp: 16126
Ion Ratio Lower Upper
43 100
61 7.6 10.7 16.1#
70 5.2 7.8 11.8#



#38
Carbon Tetrachloride
Concen: 5.133 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.129 min
Lab File: VN087941.D
Acq: 24 Sep 2025 12:07

Tgt Ion: 117 Resp: 20713
Ion Ratio Lower Upper
117 100
119 5.5 72.1 108.1#
121 0.0 24.6 36.8#

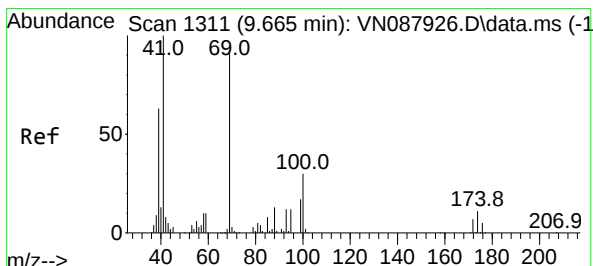
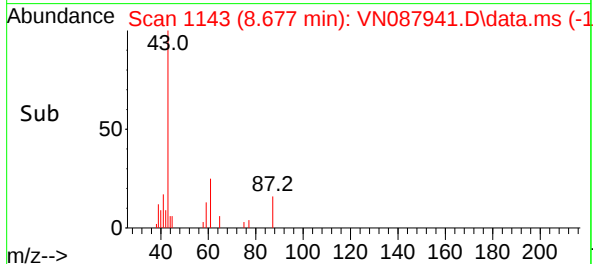
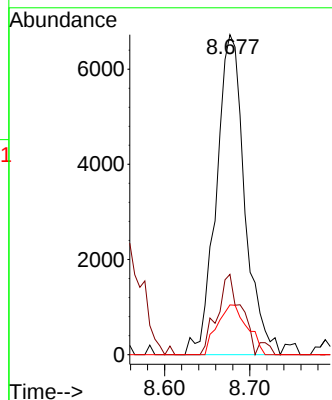
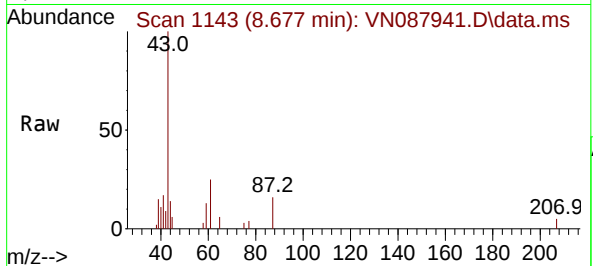




#43
Isopropyl Acetate
Concen: 2.152 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VN087941.D
Acq: 24 Sep 2025 12:07

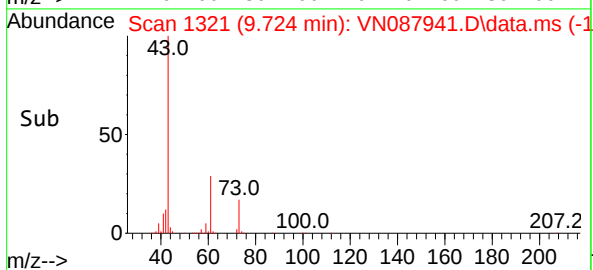
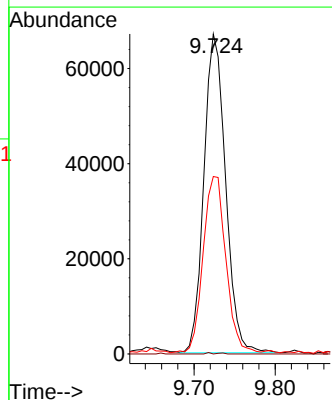
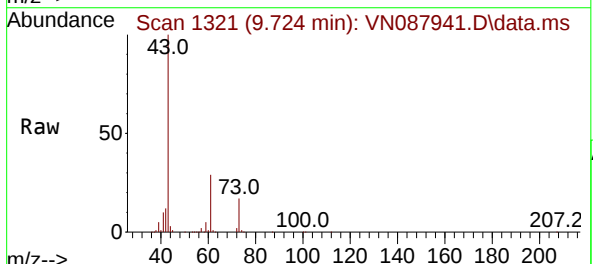
Instrument :
MSVOA_N
ClientSampleId :
PB169792TB

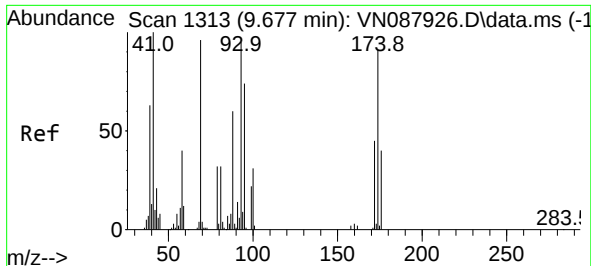
Tgt Ion: 43	Resp: 15639
Ion Ratio	Lower Upper
43 100	
61 21.6	20.2 30.2
87 16.3	10.9 16.3



#48
Methyl methacrylate
Concen: 36.964 ug/l
RT: 9.724 min Scan# 1321
Delta R.T. 0.059 min
Lab File: VN087941.D
Acq: 24 Sep 2025 12:07

Tgt Ion: 41	Resp: 124425
Ion Ratio	Lower Upper
41 100	
69 0.1	70.9 106.3#
39 57.8	52.9 79.3





#49

1,4-Dioxane

Concen: 4.082 ug/l

RT: 9.730 min Scan# 11

Delta R.T. 0.053 min

Lab File: VN087941.D

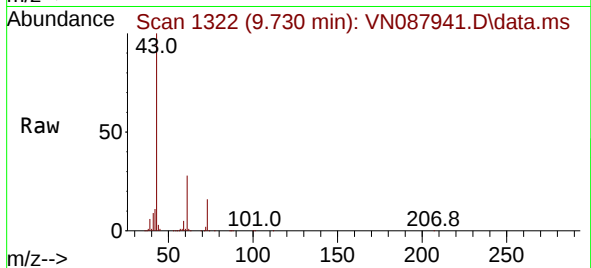
Acq: 24 Sep 2025 12:07

Instrument :

MSVOA_N

ClientSampleId :

PB169792TB



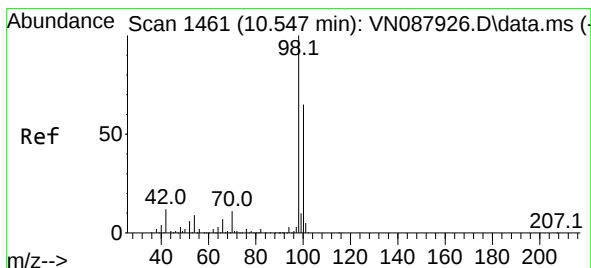
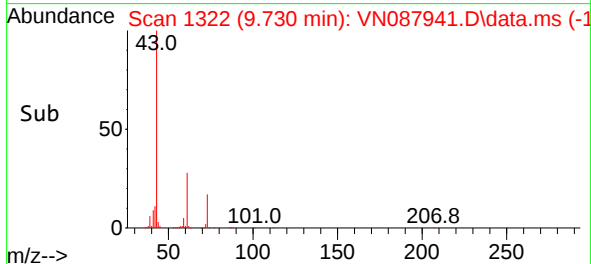
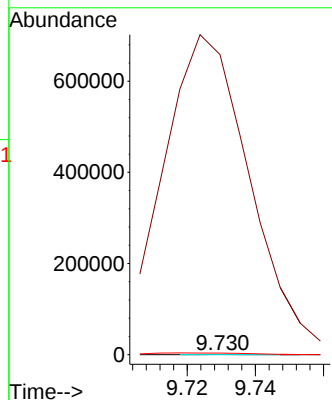
Tgt Ion: 88 Resp: 203

Ion Ratio Lower Upper

88 100

43 636810.8 22.6 33.8#

58 3895.1 57.4 86.2#



#50

Toluene-d8

Concen: 52.340 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. 0.000 min

Lab File: VN087941.D

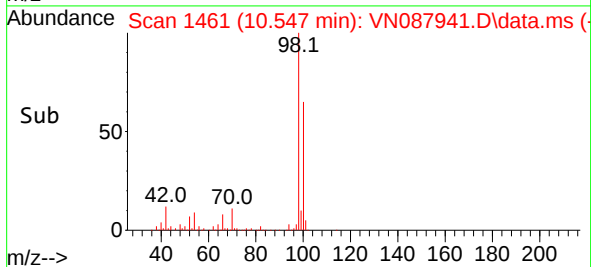
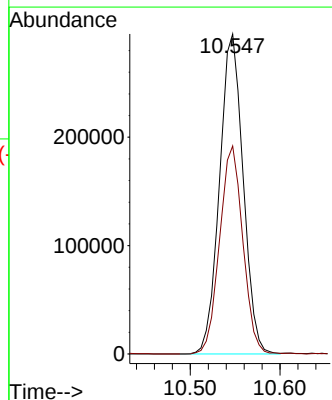
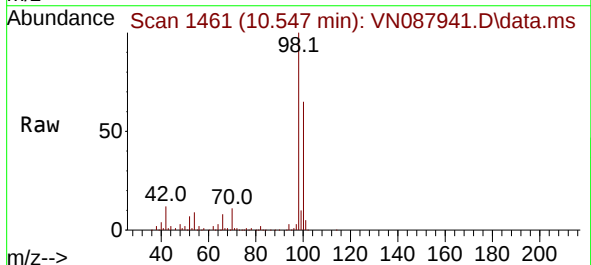
Acq: 24 Sep 2025 12:07

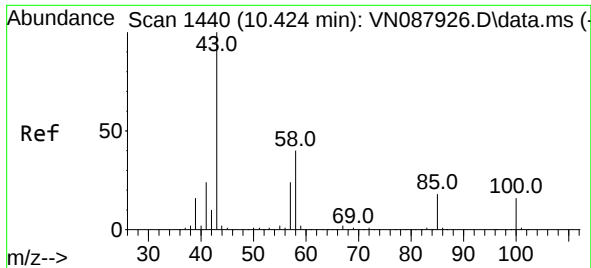
Tgt Ion: 98 Resp: 538289

Ion Ratio Lower Upper

98 100

100 64.0 51.7 77.5

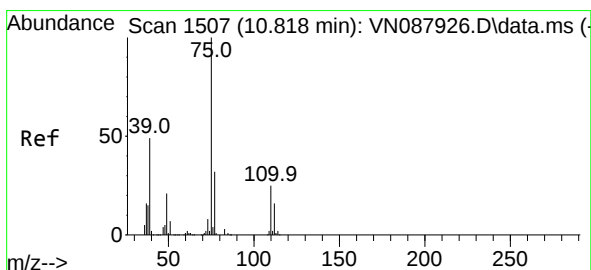
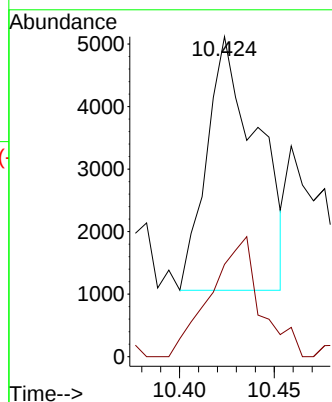
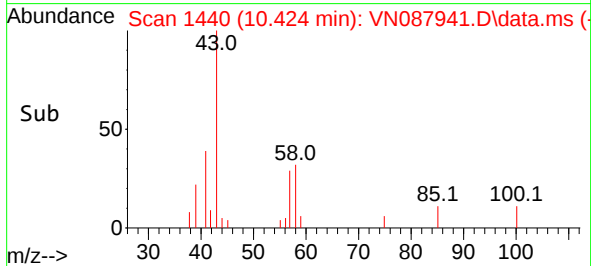
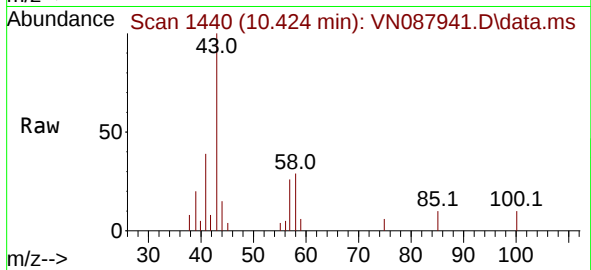




#51
4-Methyl-2-Pentanone
Concen: 1.662 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. 0.000 min
Lab File: VN087941.D
Acq: 24 Sep 2025 12:07

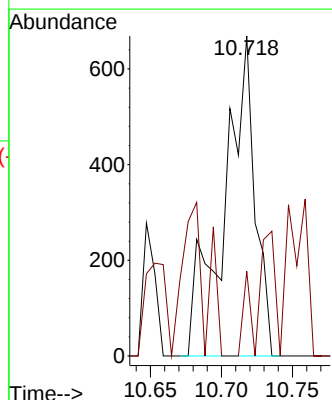
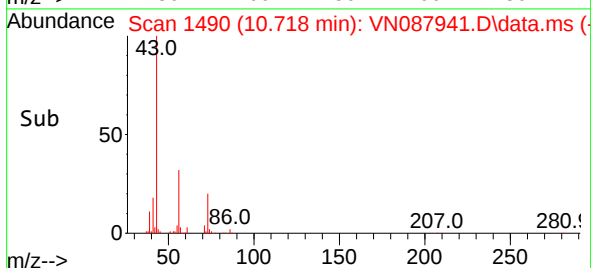
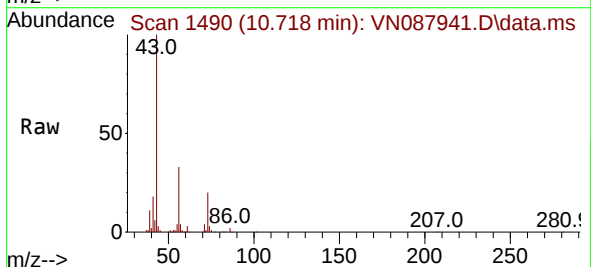
Instrument :
MSVOA_N
ClientSampleId :
PB169792TB

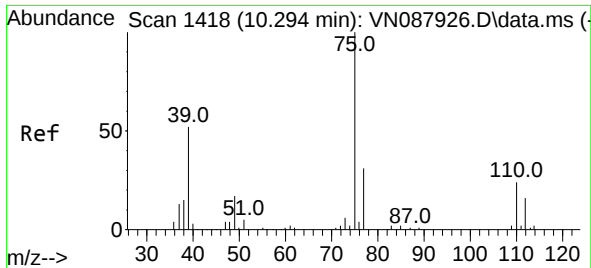
Tgt Ion: 43 Resp: 7540
Ion Ratio Lower Upper
43 100
58 46.1 31.0 46.6



#53
t-1,3-Dichloropropene
Concen: 0.219 ug/l
RT: 10.718 min Scan# 1490
Delta R.T. -0.100 min
Lab File: VN087941.D
Acq: 24 Sep 2025 12:07

Tgt Ion: 75 Resp: 1013
Ion Ratio Lower Upper
75 100
77 26.5 25.3 37.9

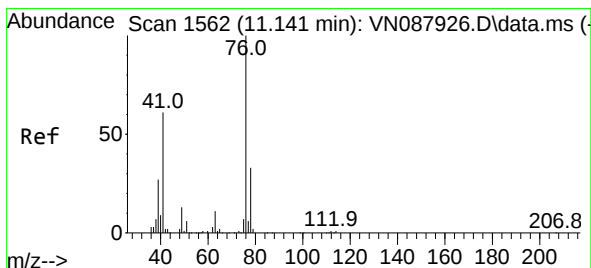
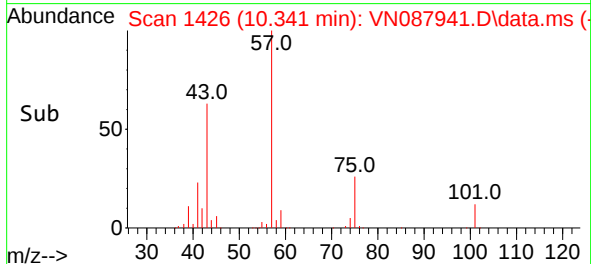
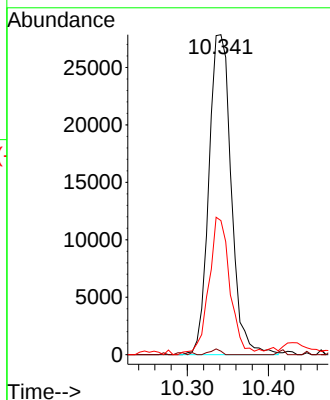
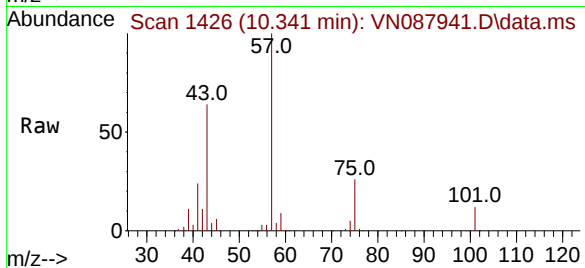




#54
 cis-1,3-Dichloropropene
 Concen: 11.098 ug/l
 RT: 10.341 min Scan# 1418
 Delta R.T. 0.047 min
 Lab File: VN087941.D
 Acq: 24 Sep 2025 12:07

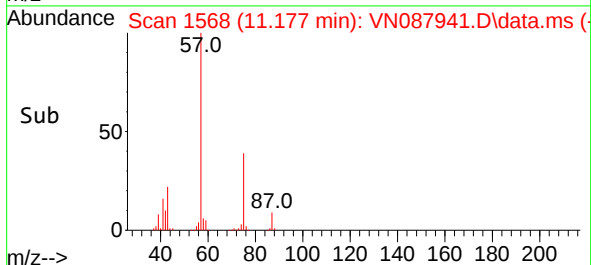
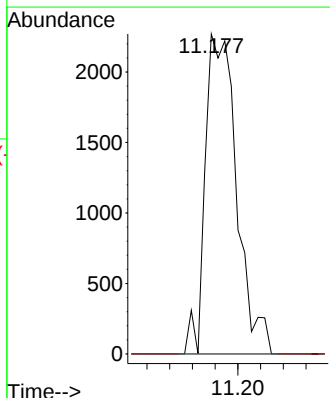
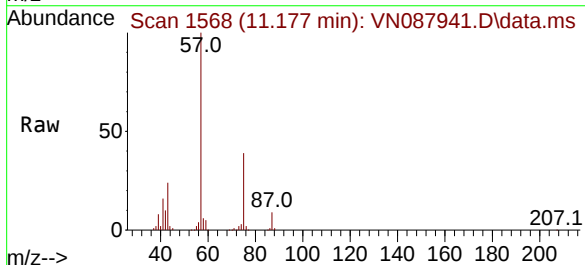
Instrument :
 MSVOA_N
 ClientSampleId :
 PB169792TB

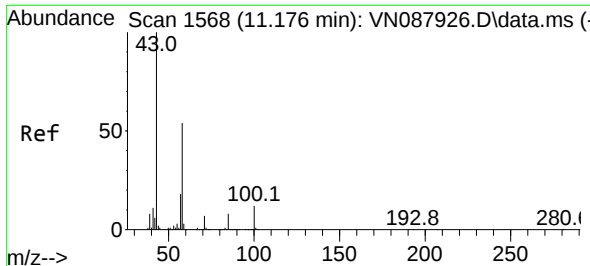
Tgt Ion: 75 Resp: 53309
 Ion Ratio Lower Upper
 75 100
 77 0.5 24.7 37.1#
 39 41.9 41.4 62.0



#57
 1,3-Dichloropropane
 Concen: 0.892 ug/l
 RT: 11.177 min Scan# 1568
 Delta R.T. 0.035 min
 Lab File: VN087941.D
 Acq: 24 Sep 2025 12:07

Tgt Ion: 76 Resp: 4358
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#

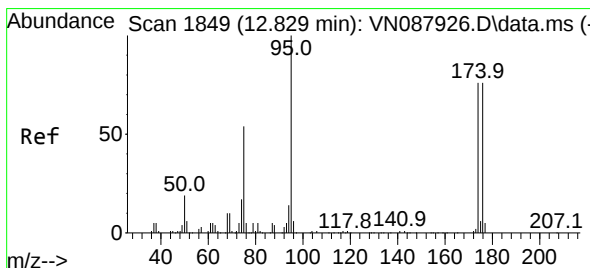
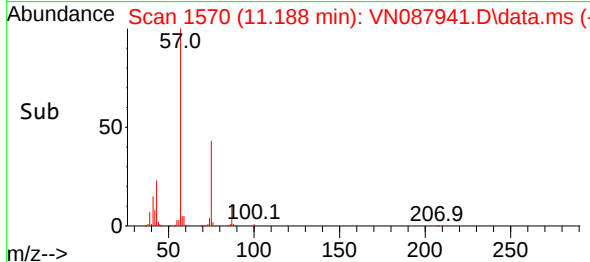
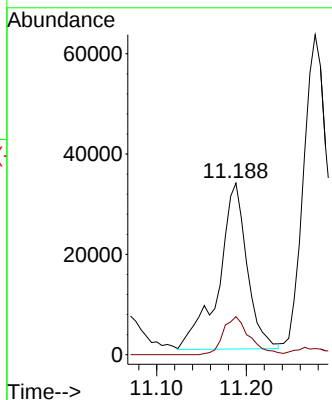
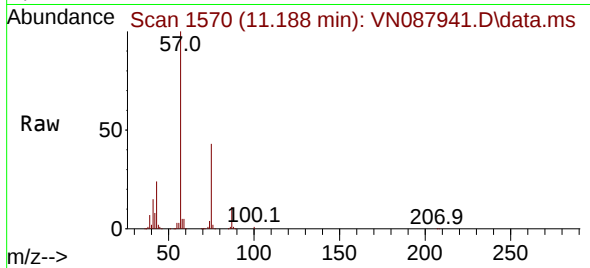




#59
2-Hexanone
Concen: 24.143 ug/l
RT: 11.188 min Scan# 1568
Delta R.T. 0.012 min
Lab File: VN087941.D
Acq: 24 Sep 2025 12:07

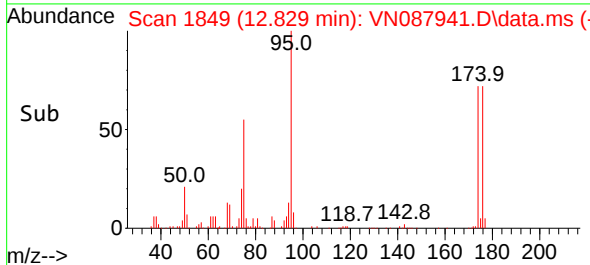
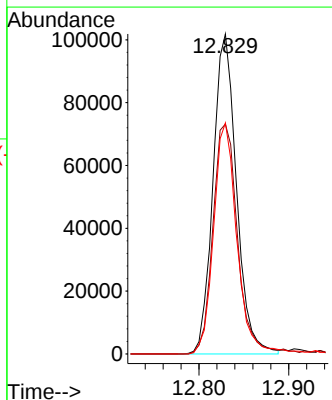
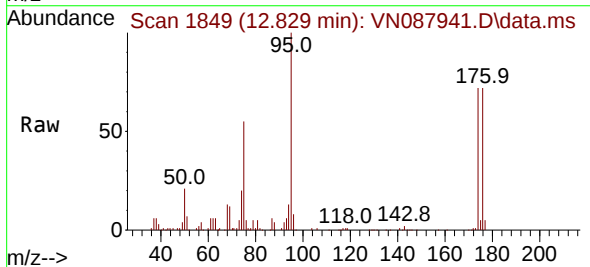
Instrument :
MSVOA_N
ClientSampleId :
PB169792TB

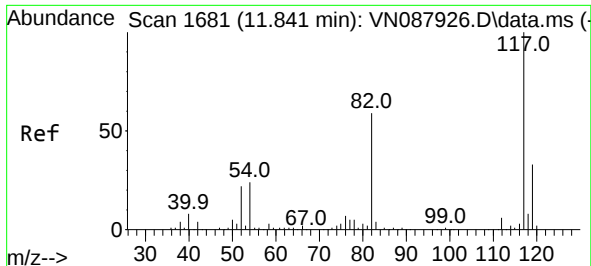
Tgt Ion: 43 Resp: 72407
Ion Ratio Lower Upper
43 100
58 21.3 26.4 79.2#



#62
4-Bromofluorobenzene
Concen: 50.223 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087941.D
Acq: 24 Sep 2025 12:07

Tgt Ion: 95 Resp: 184629
Ion Ratio Lower Upper
95 100
174 75.9 0.0 159.2
176 72.2 0.0 152.6

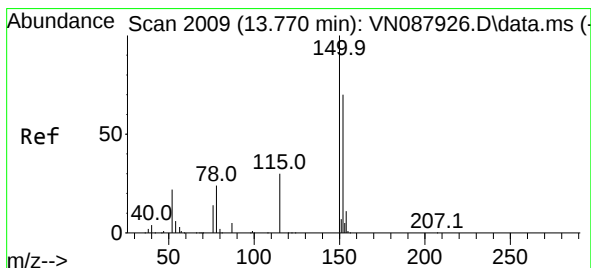
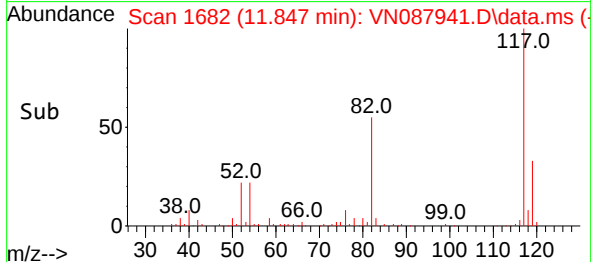
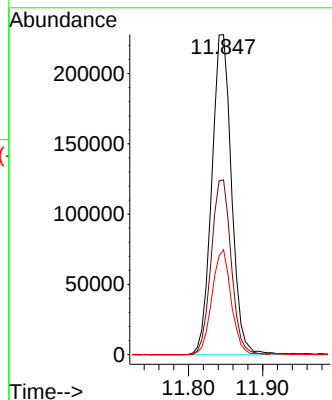
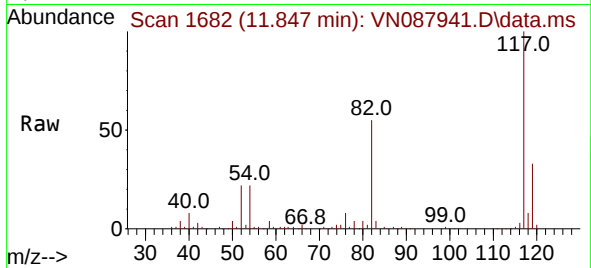




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 117
Delta R.T. 0.006 min
Lab File: VN087941.D
Acq: 24 Sep 2025 12:07

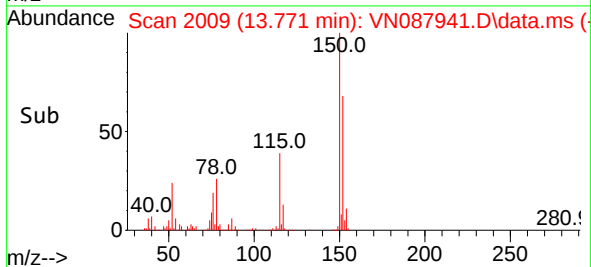
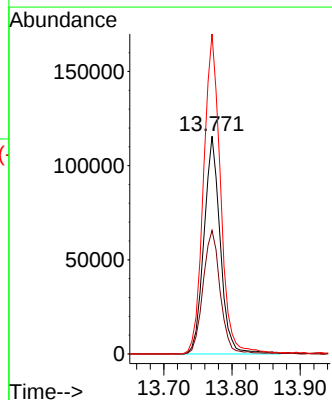
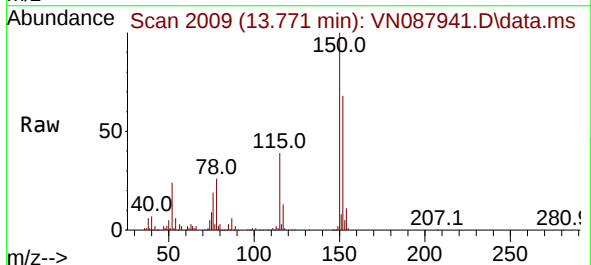
Instrument :
MSVOA_N
ClientSampleId :
PB169792TB

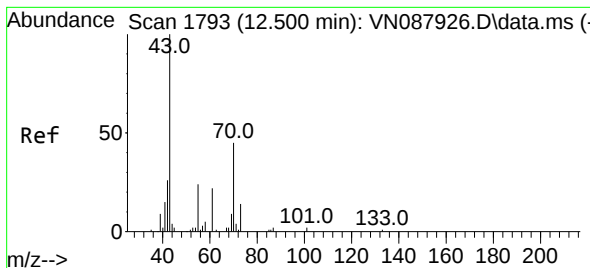
Tgt Ion:117 Resp: 422045
Ion Ratio Lower Upper
117 100
82 54.7 47.0 70.4
119 32.8 26.1 39.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.771 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN087941.D
Acq: 24 Sep 2025 12:07

Tgt Ion:152 Resp: 192340
Ion Ratio Lower Upper
152 100
115 60.0 29.9 89.7
150 153.6 0.0 335.0





#74

N-amy1 acetate

Concen: 0.352 ug/l

RT: 12.482 min Scan# 1

Delta R.T. -0.018 min

Lab File: VN087941.D

Acq: 24 Sep 2025 12:07

Instrument :

MSVOA_N

ClientSampleId :

PB169792TB

Tgt Ion: 43 Resp: 1384

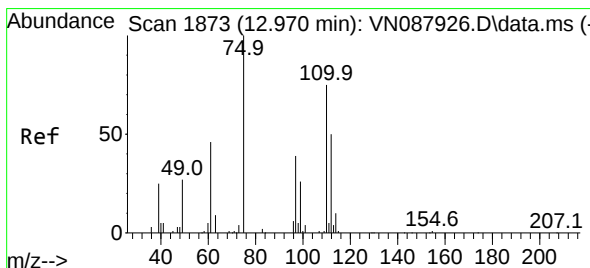
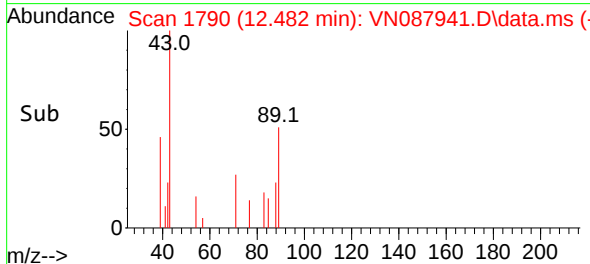
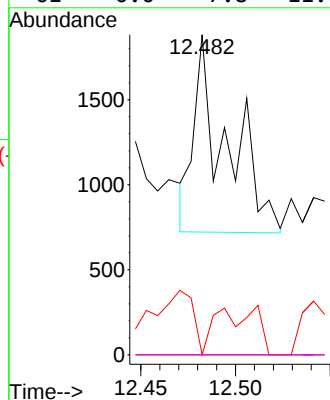
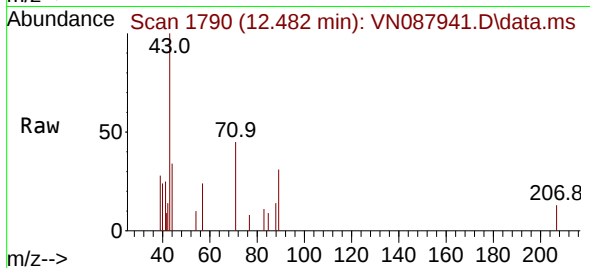
Ion Ratio Lower Upper

43 100

70 0.0 19.8 29.8#

55 42.3 9.6 14.4#

61 0.0 7.8 11.6#



#76

1,2,3-Trichloropropane

Concen: 25.978 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.141 min

Lab File: VN087941.D

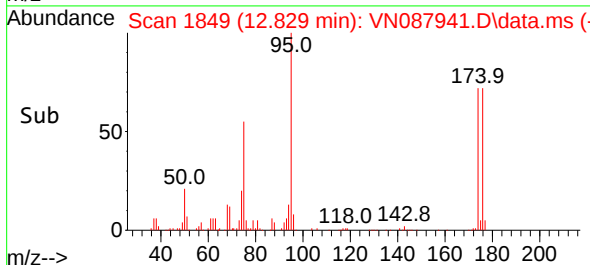
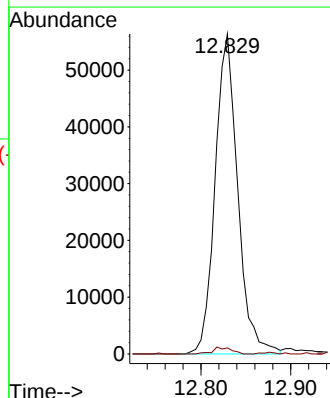
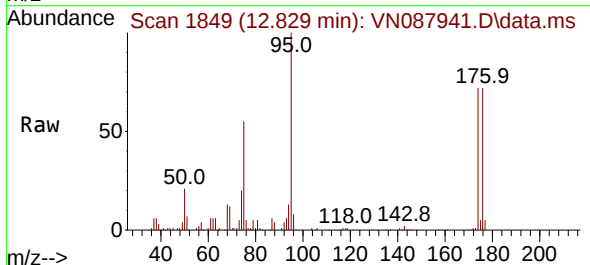
Acq: 24 Sep 2025 12:07

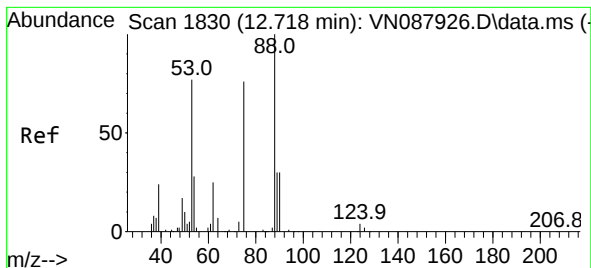
Tgt Ion: 75 Resp: 98496

Ion Ratio Lower Upper

75 100

77 1.7 89.5 268.5#

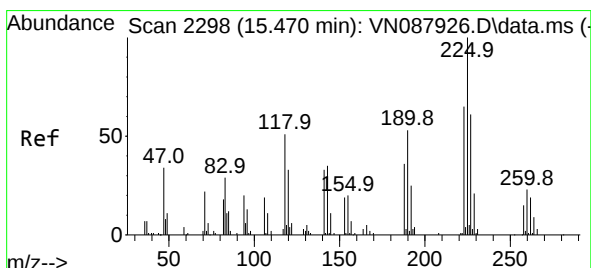
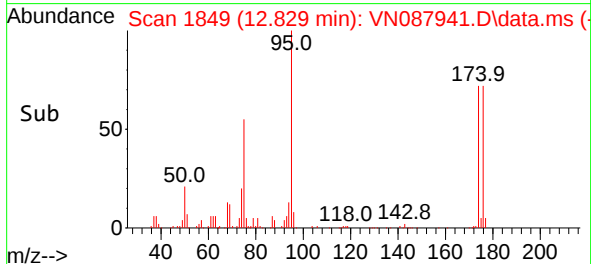
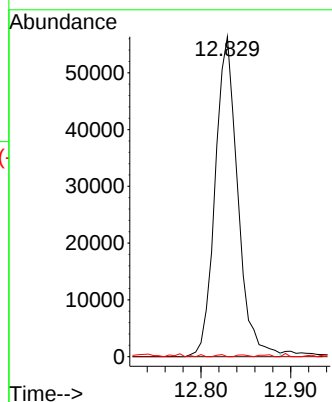
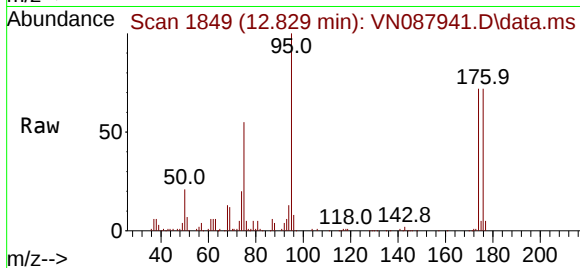




#81
 trans-1,4-Dichloro-2-butene
 Concen: 72.138 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. 0.112 min
 Lab File: VN087941.D
 Acq: 24 Sep 2025 12:07

Instrument :
 MSVOA_N
 ClientSampleId :
 PB169792TB

Tgt Ion: 75 Resp: 98496
 Ion Ratio Lower Upper
 75 100
 53 0.0 82.0 123.0#
 89 0.2 36.1 54.1#



#94
 Hexachlorobutadiene
 Concen: 0.290 ug/l
 RT: 15.476 min Scan# 2299
 Delta R.T. 0.006 min
 Lab File: VN087941.D
 Acq: 24 Sep 2025 12:07

Tgt Ion: 225 Resp: 376
 Ion Ratio Lower Upper
 225 100
 223 34.6 31.8 95.4
 227 0.0 31.9 95.9#

