

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031125\
 Data File : VN085941.D
 Acq On : 11 Mar 2025 19:04
 Operator : JC\MD
 Sample : PB167050ZHE#07
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 12 01:27:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

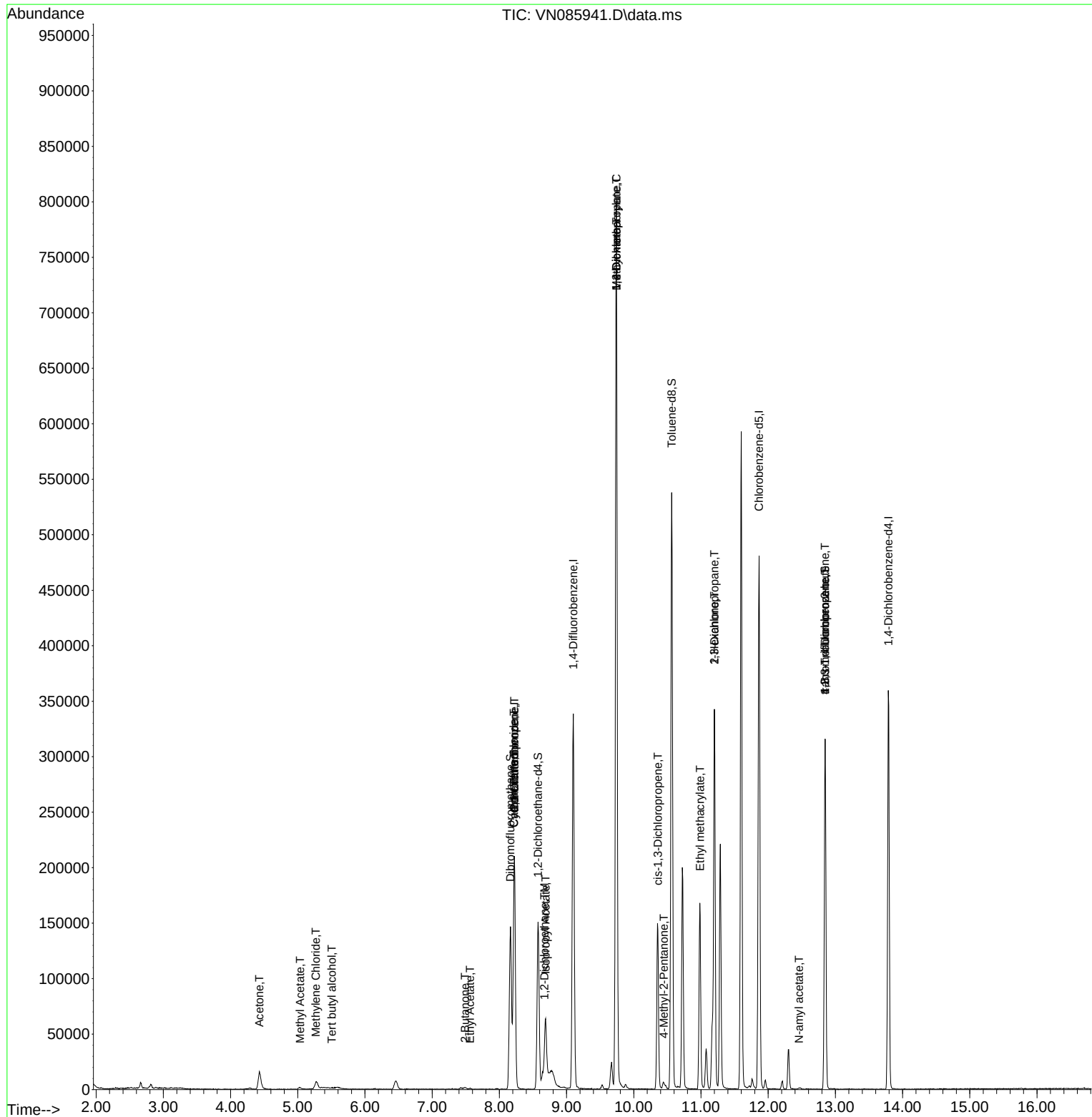
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

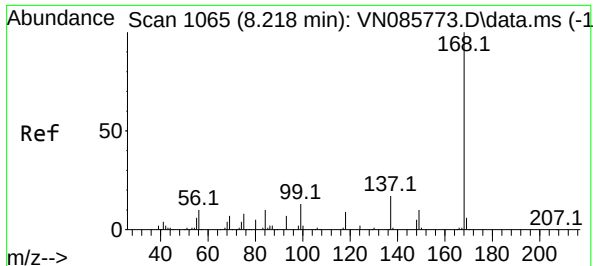
Internal Standards						
1) Pentafluorobenzene	8.224	168	148082	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	289167	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	280808	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	99677	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	123023	64.080	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 128.160%#			
35) Dibromofluoromethane	8.165	113	104757	55.363	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 110.720%			
50) Toluene-d8	10.565	98	380497	55.270	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 110.540%			
62) 4-Bromofluorobenzene	12.847	95	112863	49.758	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 99.520%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.506	59	100	0.424	ug/l #	72
16) Acetone	4.430	43	28213	46.443	ug/l	98
18) Methyl Acetate	5.036	43	3027	1.449	ug/l #	85
20) Methylene Chloride	5.271	84	5224	2.674	ug/l #	88
25) 2-Butanone	7.488	43	3240	3.625	ug/l	94
31) Cyclohexane	8.218	56	3119	1.137	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	12496	4.666	ug/l #	43
37) Ethyl Acetate	7.565	43	1377	0.625	ug/l #	66
38) Carbon Tetrachloride	8.218	117	15778	4.959	ug/l #	19
42) 1,2-Dichloroethane	8.671	62	562	0.201	ug/l #	73
43) Isopropyl Acetate	8.688	43	84217	21.463	ug/l #	77
45) 1,2-Dichloropropane	9.741	63	932	0.450	ug/l #	43
48) Methyl methacrylate	9.741	41	70192	42.887	ug/l #	37
49) 1,4-Dioxane	9.741	88	59	1.896	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	7650	3.600	ug/l #	65
54) cis-1,3-Dichloropropene	10.359	75	26557	8.377	ug/l #	65
56) Ethyl methacrylate	10.988	69	1116	0.893	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	3770	1.129	ug/l #	42
59) 2-Hexanone	11.200	43	43668	29.875	ug/l #	51
74) N-amyl acetate	12.459	43	847	0.352	ug/l #	37
76) 1,2,3-Trichloropropane	12.847	75	56622	25.573	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	56622	74.615	ug/l #	12

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

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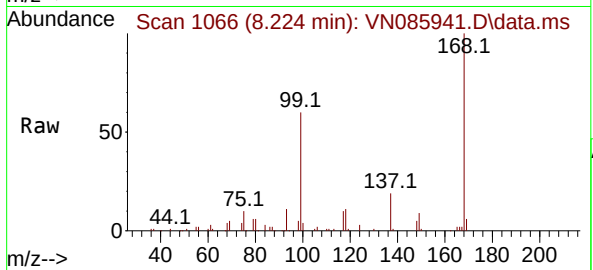
Instrument :
MSVOA_N
ClientSampleId :



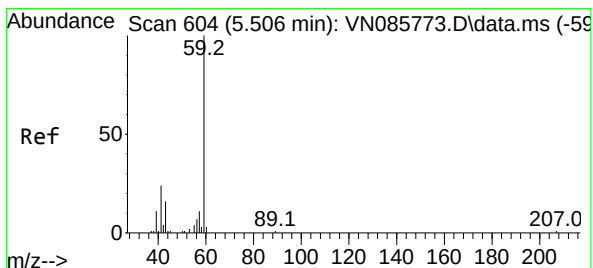
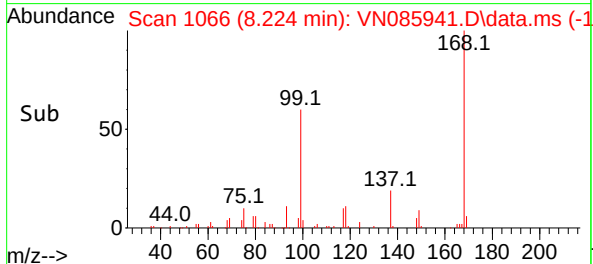
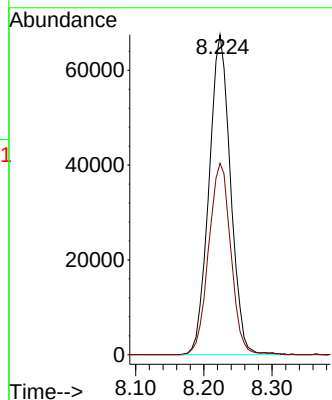


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085941.D
Acq: 11 Mar 2025 19:04

Instrument :
MSVOA_N
ClientSampleId :

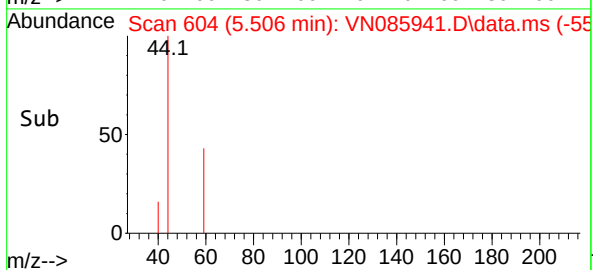
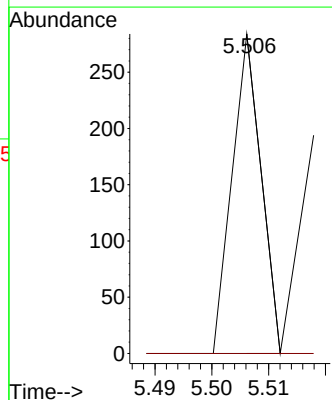
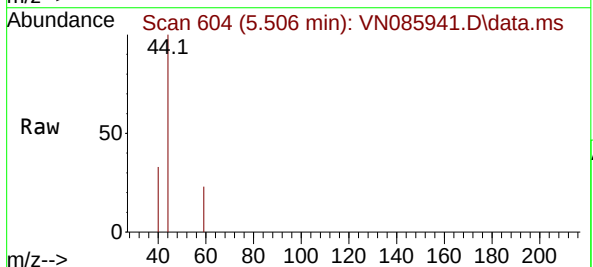


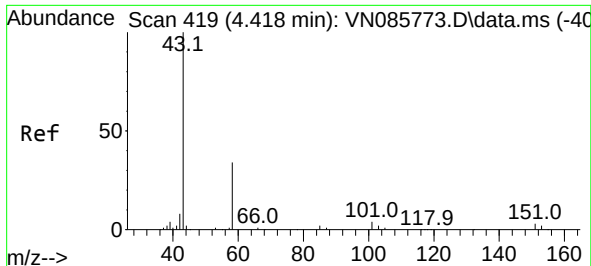
Tgt Ion:168 Resp: 148082
Ion Ratio Lower Upper
168 100
99 59.8 47.9 71.9



#11
Tert butyl alcohol
Concen: 0.424 ug/l
RT: 5.506 min Scan# 604
Delta R.T. -0.000 min
Lab File: VN085941.D
Acq: 11 Mar 2025 19:04

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

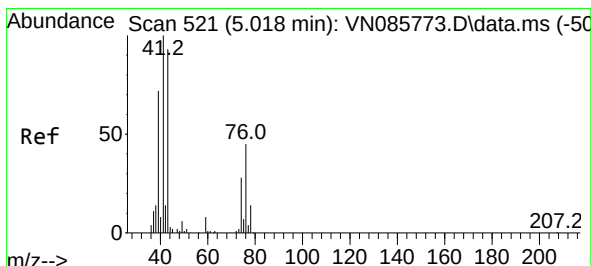
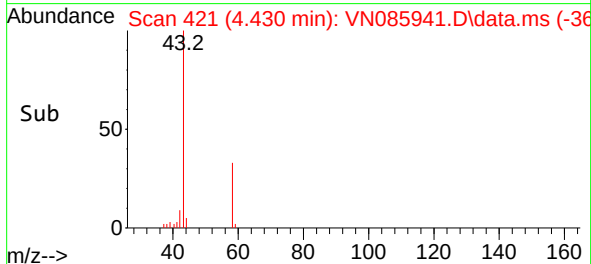
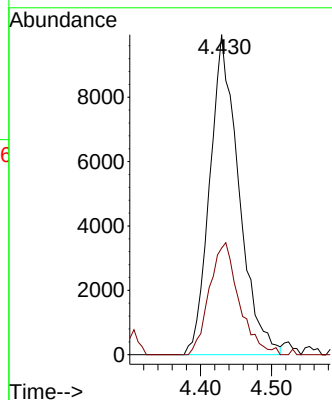
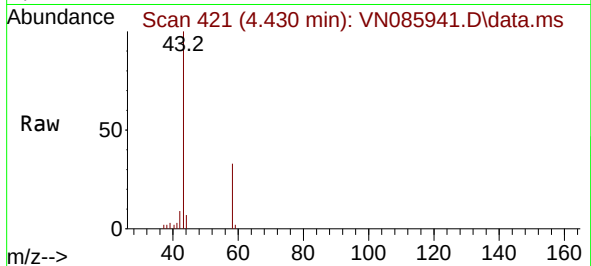




#16
Acetone
Concen: 46.443 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN085941.D
Acq: 11 Mar 2025 19:04

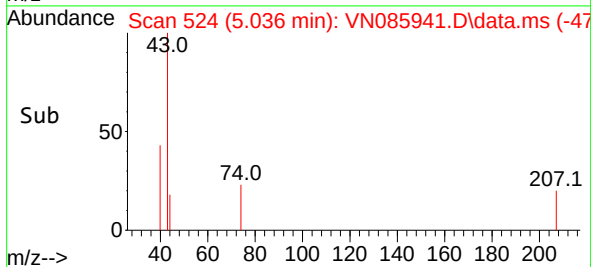
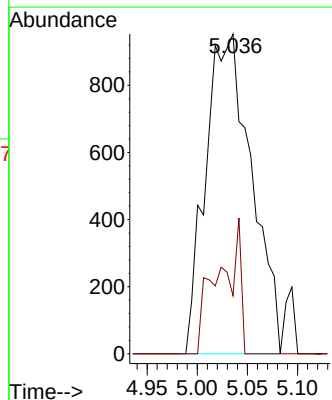
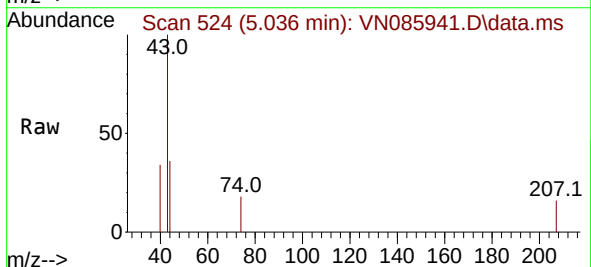
Instrument :
MSVOA_N
ClientSampleId :

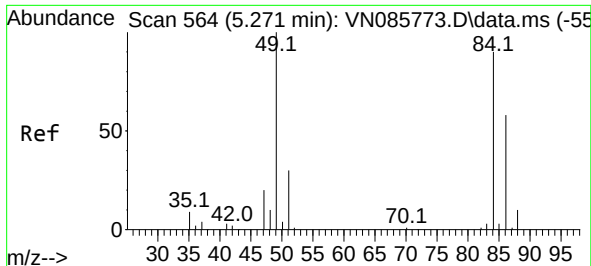
Tgt Ion: 43 Resp: 28213
Ion Ratio Lower Upper
43 100
58 33.3 27.5 41.3



#18
Methyl Acetate
Concen: 1.449 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.018 min
Lab File: VN085941.D
Acq: 11 Mar 2025 19:04

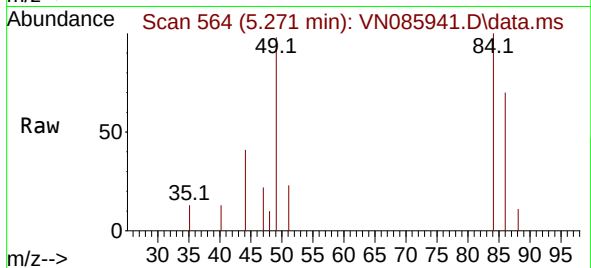
Tgt Ion: 43 Resp: 3027
Ion Ratio Lower Upper
43 100
74 20.2 22.2 33.4#



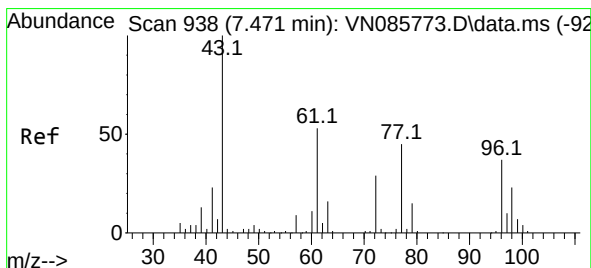
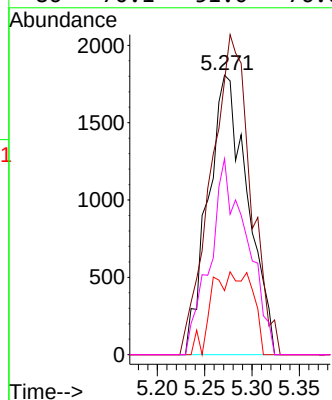


#20
Methylene Chloride
Concen: 2.674 ug/l
RT: 5.271 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN085941.D
Acq: 11 Mar 2025 19:04

Instrument :
MSVOA_N
ClientSampleId :

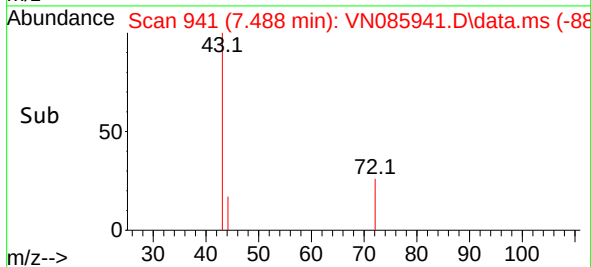
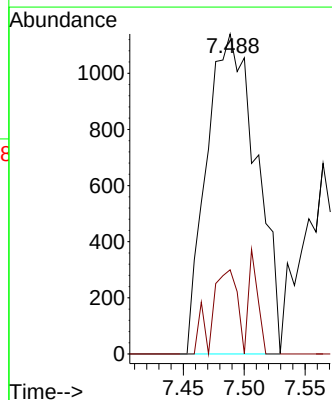
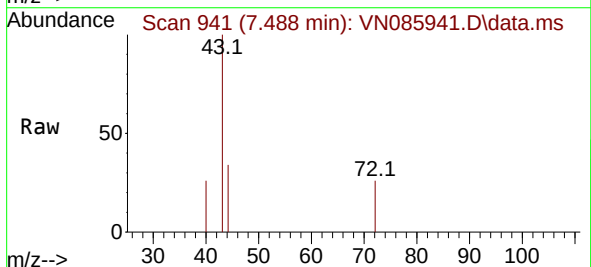


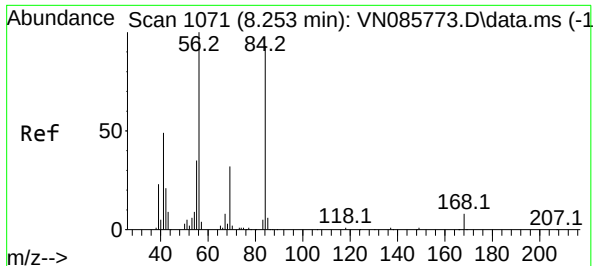
Tgt Ion: 84	Resp: 5224
Ion Ratio	Lower Upper
84 100	
49 98.0	88.4 132.6
51 22.9	26.6 40.0#
86 70.1	51.0 76.6



#25
2-Butanone
Concen: 3.625 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.018 min
Lab File: VN085941.D
Acq: 11 Mar 2025 19:04

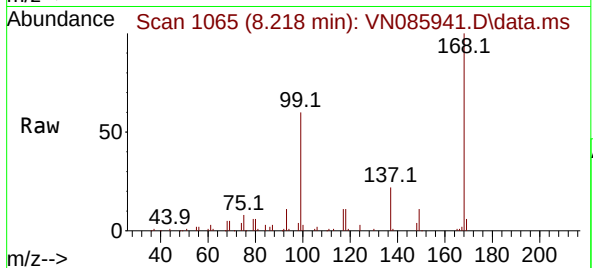
Tgt Ion: 43	Resp: 3240		
Ion Ratio	Lower	Upper	
43 100			
72 26.3	23.6	35.4	



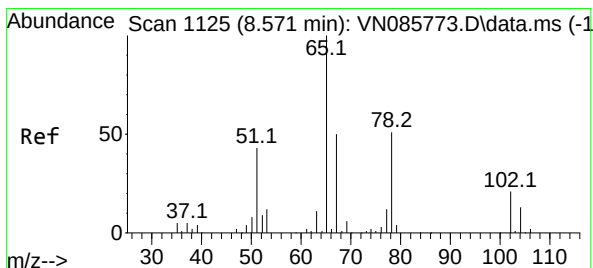
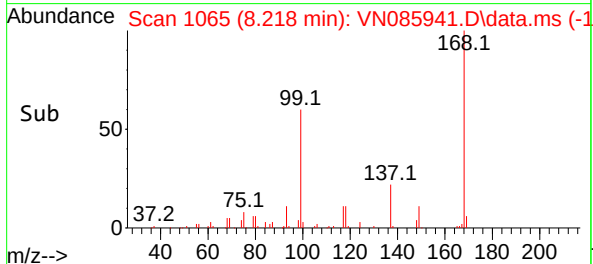
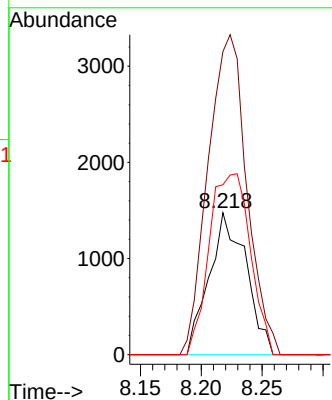


#31
Cyclohexane
Concen: 1.137 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN085941.D
Acq: 11 Mar 2025 19:04

Instrument :
MSVOA_N
ClientSampleId :

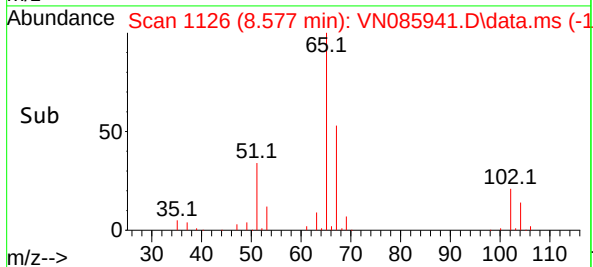
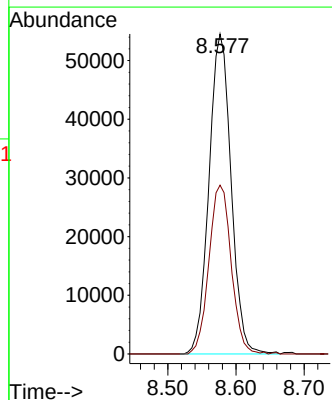
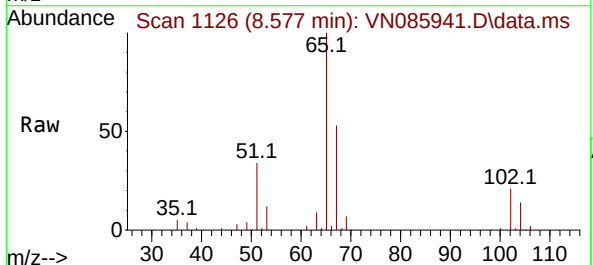


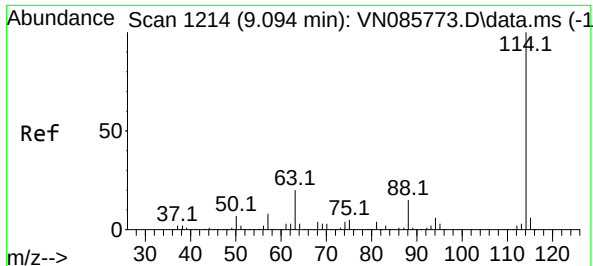
Tgt Ion: 56 Resp: 3119
Ion Ratio Lower Upper
56 100
69 213.6 25.8 38.6#
84 119.7 74.5 111.7#



#33
1,2-Dichloroethane-d4
Concen: 64.080 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085941.D
Acq: 11 Mar 2025 19:04

Tgt Ion: 65 Resp: 123023
Ion Ratio Lower Upper
65 100
67 53.2 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN085941.D

Acq: 11 Mar 2025 19:04

Instrument :

MSVOA_N

ClientSampleId :

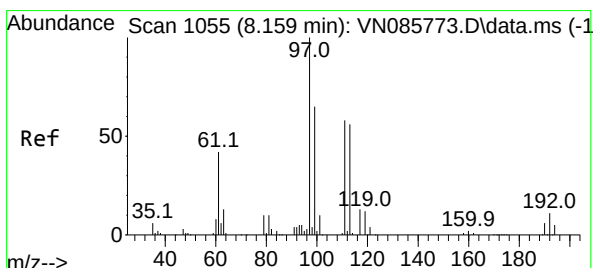
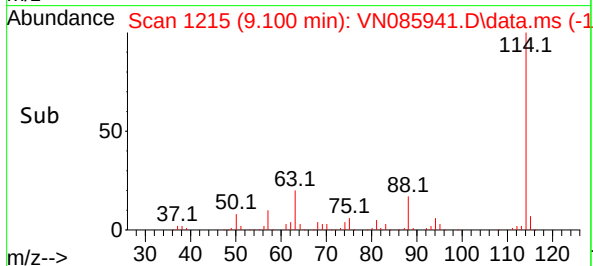
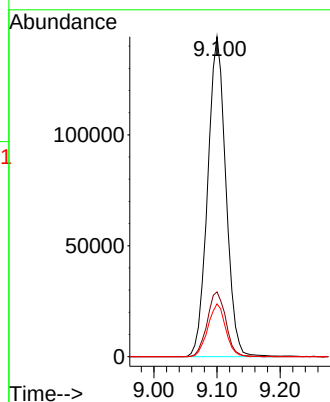
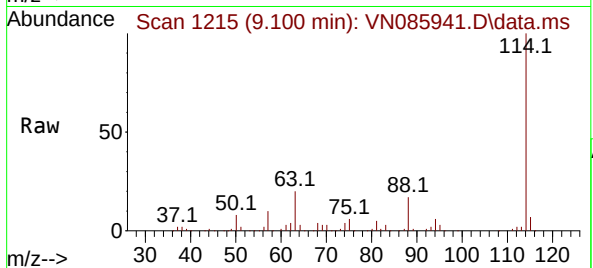
Tgt Ion:114 Resp: 289167

Ion Ratio Lower Upper

114 100

63 20.2 0.0 39.2

88 16.5 0.0 30.0



#35

Dibromofluoromethane

Concen: 55.363 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085941.D

Acq: 11 Mar 2025 19:04

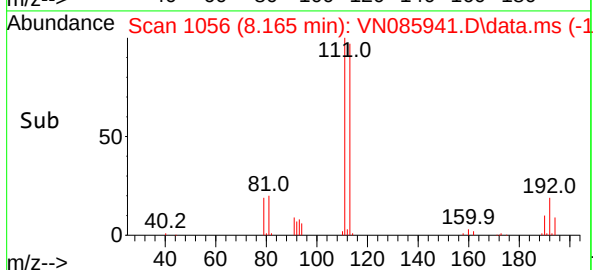
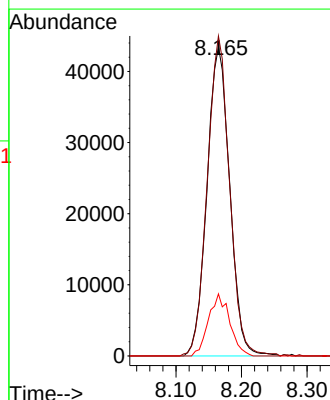
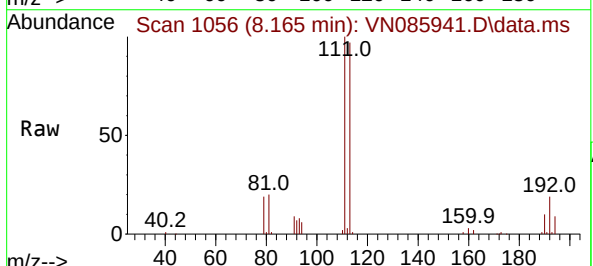
Tgt Ion:113 Resp: 104757

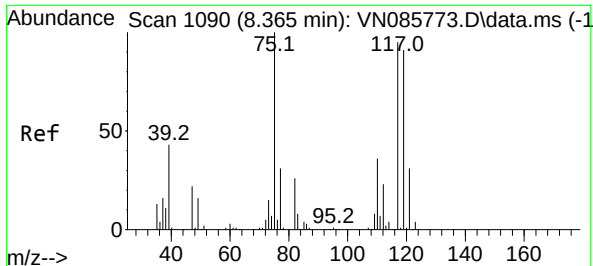
Ion Ratio Lower Upper

113 100

111 101.3 82.2 123.4

192 18.7 14.7 22.1





#36

1,1-Dichloropropene

Concen: 4.666 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.141 min

Lab File: VN085941.D

Acq: 11 Mar 2025 19:04

Instrument :

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ClientSampleId :

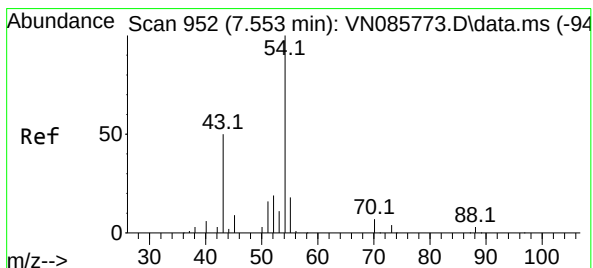
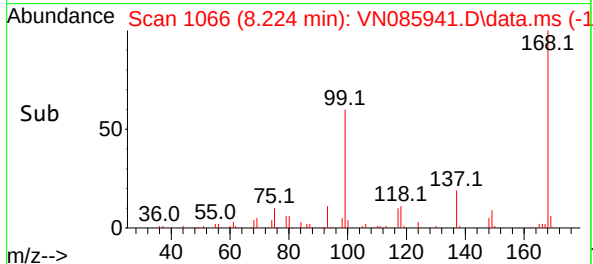
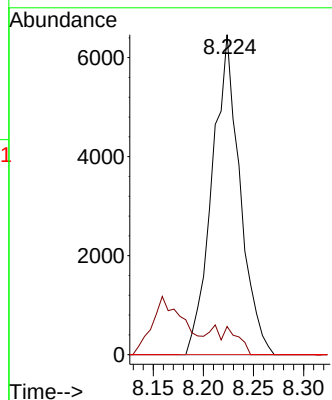
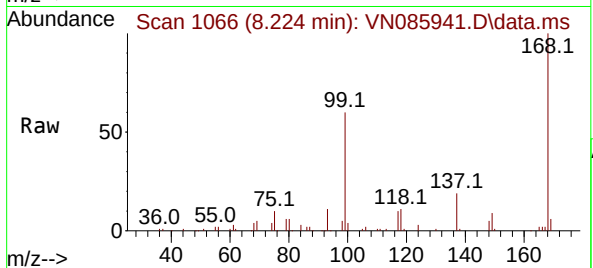
Tgt Ion: 75 Resp: 12496

Ion Ratio Lower Upper

75 100

110 1.6 17.3 52.0#

77 0.0 24.6 37.0#



#37

Ethyl Acetate

Concen: 0.625 ug/l

RT: 7.565 min Scan# 954

Delta R.T. 0.012 min

Lab File: VN085941.D

Acq: 11 Mar 2025 19:04

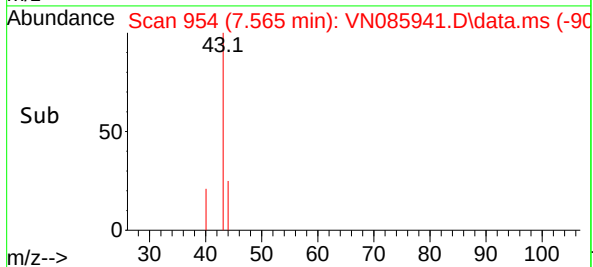
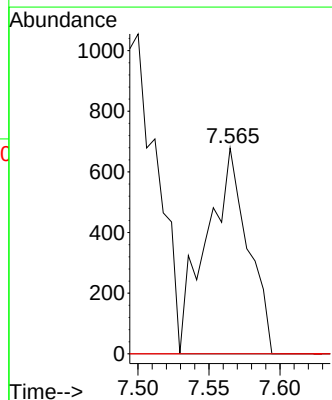
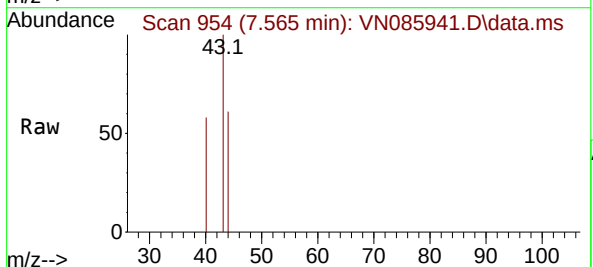
Tgt Ion: 43 Resp: 1377

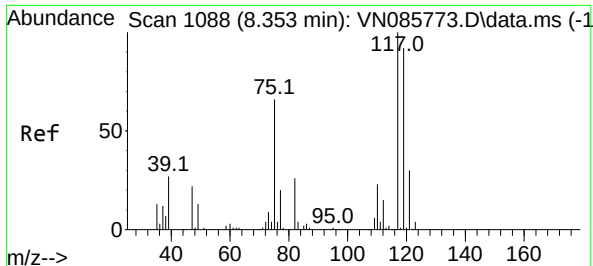
Ion Ratio Lower Upper

43 100

61 0.0 12.2 18.2#

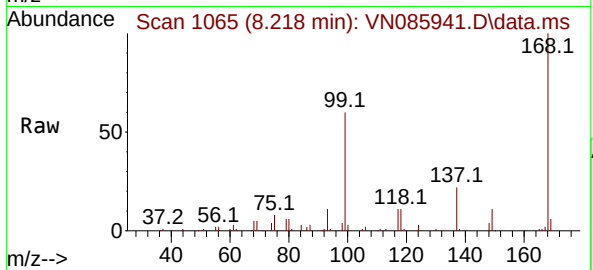
70 0.0 9.5 14.3#



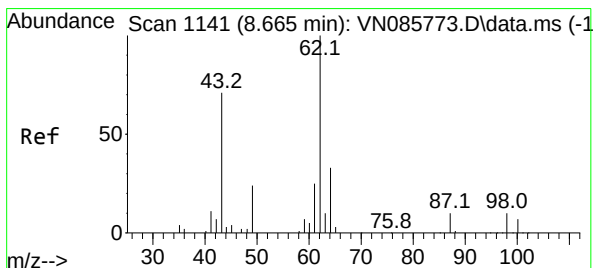
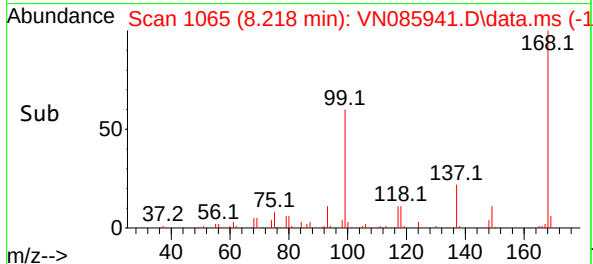
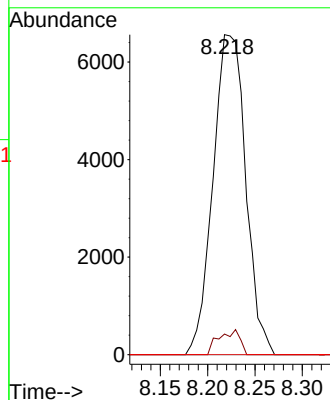


#38
Carbon Tetrachloride
Concen: 4.959 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.135 min
Lab File: VN085941.D
Acq: 11 Mar 2025 19:04

Instrument :
MSVOA_N
ClientSampleId :

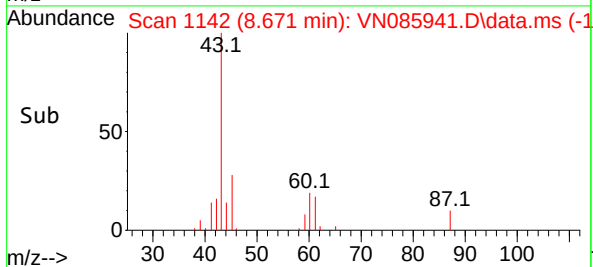
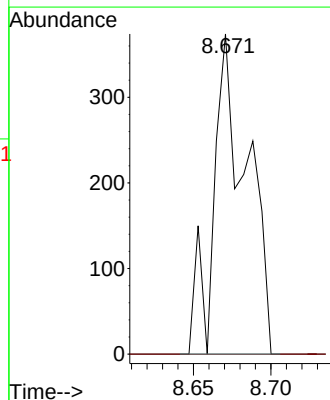
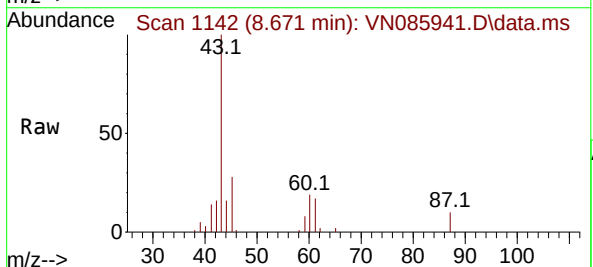


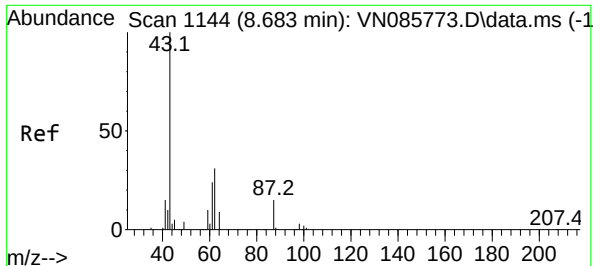
Tgt Ion:117 Resp: 15778
Ion Ratio Lower Upper
117 100
119 6.5 73.8 110.6#
121 0.0 24.3 36.5#



#42
1,2-Dichloroethane
Concen: 0.201 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.006 min
Lab File: VN085941.D
Acq: 11 Mar 2025 19:04

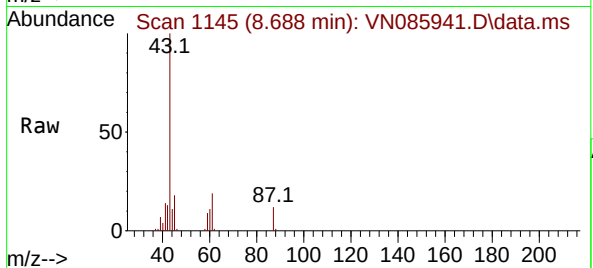
Tgt Ion: 62 Resp: 562
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.6



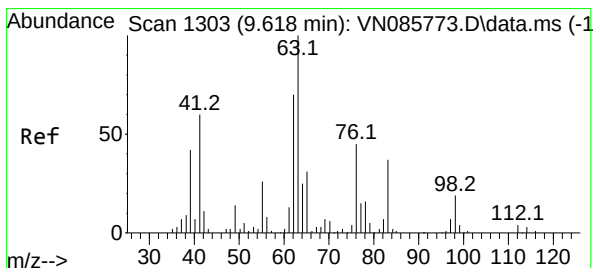
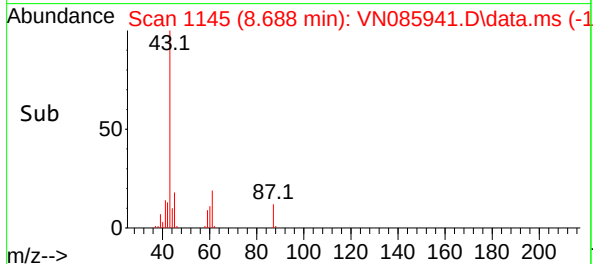
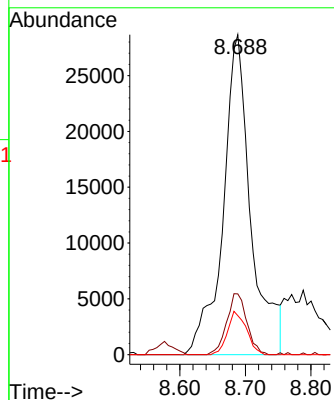


#43
Isopropyl Acetate
Concen: 21.463 ug/l
RT: 8.688 min Scan# 1144
Delta R.T. 0.005 min
Lab File: VN085941.D
Acq: 11 Mar 2025 19:04

Instrument :
MSVOA_N
ClientSampleId :

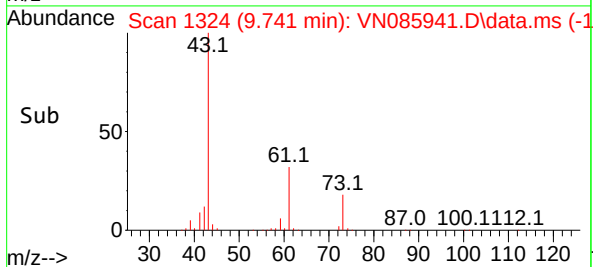
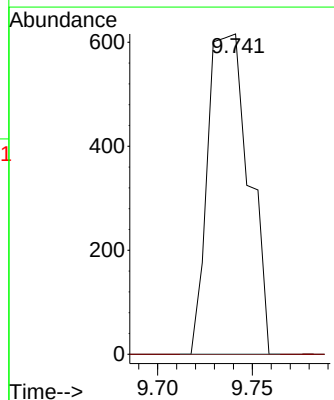
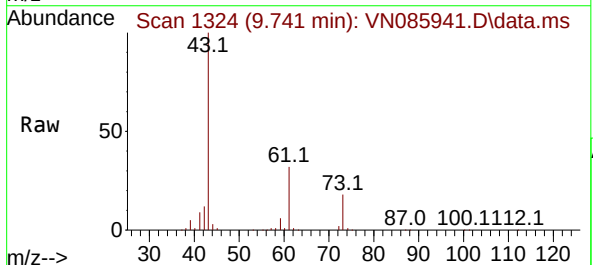


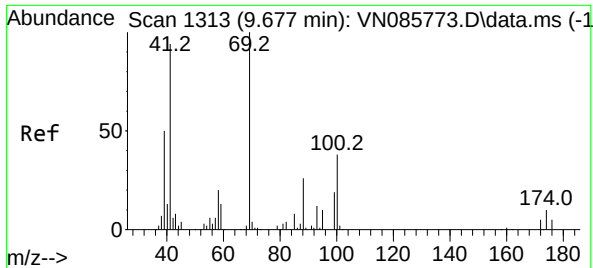
Tgt Ion: 43 Resp: 84217
Ion Ratio Lower Upper
43 100
61 13.9 22.6 34.0#
87 9.2 11.8 17.8#



#45
1,2-Dichloropropane
Concen: 0.450 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.123 min
Lab File: VN085941.D
Acq: 11 Mar 2025 19:04

Tgt Ion: 63 Resp: 932
Ion Ratio Lower Upper
63 100
65 0.0 25.1 37.7#

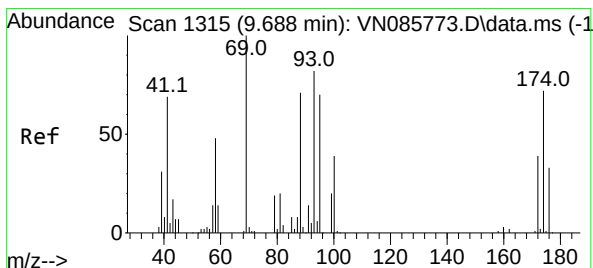
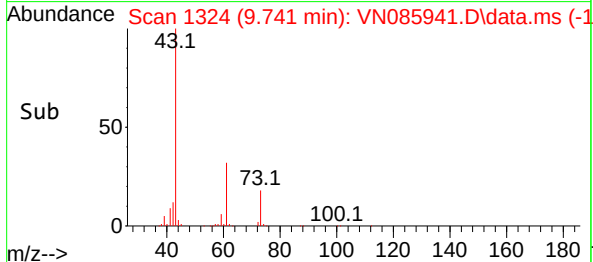
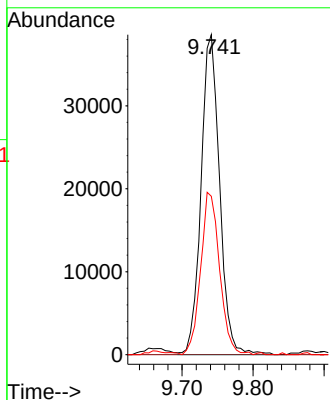
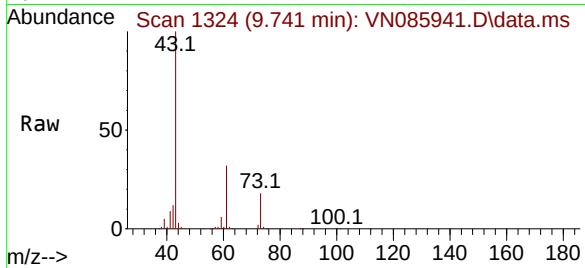




#48
Methyl methacrylate
Concen: 42.887 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.065 min
Lab File: VN085941.D
Acq: 11 Mar 2025 19:04

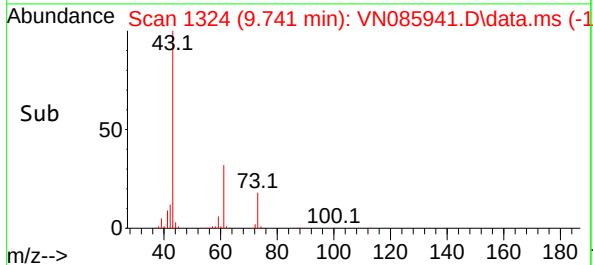
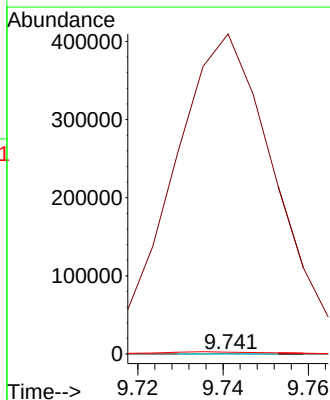
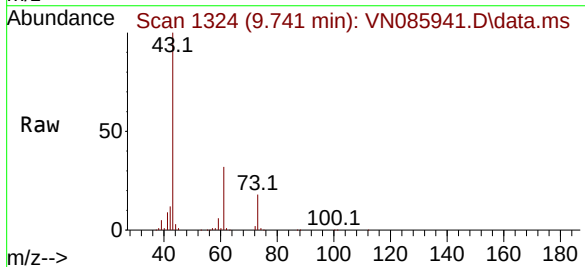
Instrument :
MSVOA_N
ClientSampleId :

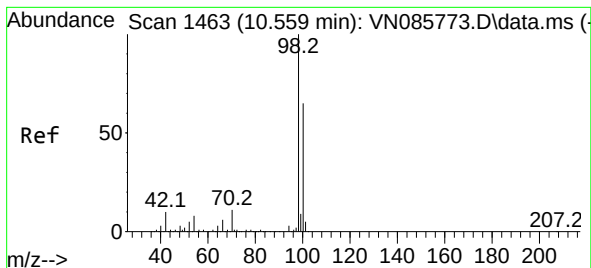
Tgt Ion: 41 Resp: 70192
Ion Ratio Lower Upper
41 100
69 0.0 76.0 114.0#
39 51.9 42.3 63.5



#49
1,4-Dioxane
Concen: 1.896 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.053 min
Lab File: VN085941.D
Acq: 11 Mar 2025 19:04

Tgt Ion: 88 Resp: 59
Ion Ratio Lower Upper
88 100
43 1197635.6 18.6 27.8#
58 8862.7 56.7 85.1#





#50

Toluene-d8

Concen: 55.270 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.006 min

Lab File: VN085941.D

Acq: 11 Mar 2025 19:04

Instrument :

MSVOA_N

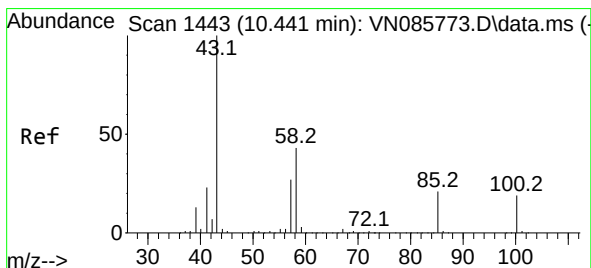
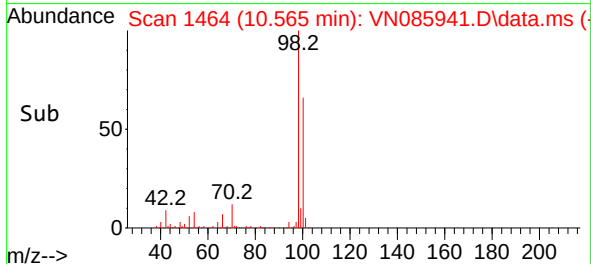
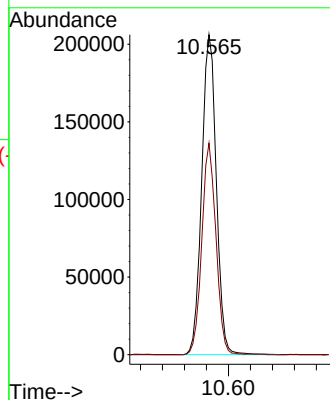
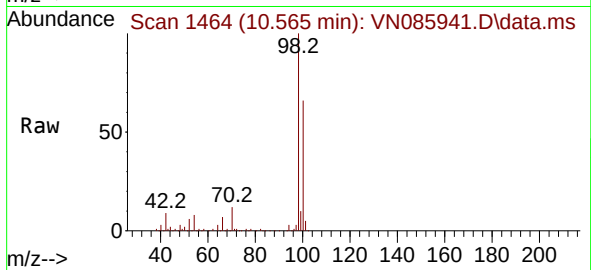
ClientSampleId :

Tgt Ion: 98 Resp: 380497

Ion Ratio Lower Upper

98 100

100 64.2 52.1 78.1



#51

4-Methyl-2-Pentanone

Concen: 3.600 ug/l

RT: 10.447 min Scan# 1444

Delta R.T. 0.006 min

Lab File: VN085941.D

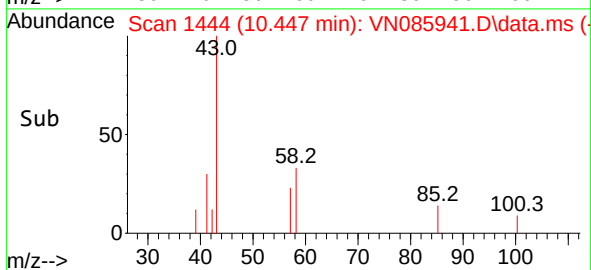
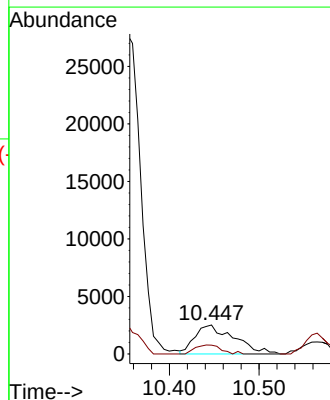
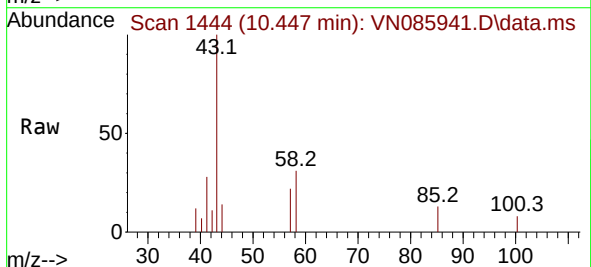
Acq: 11 Mar 2025 19:04

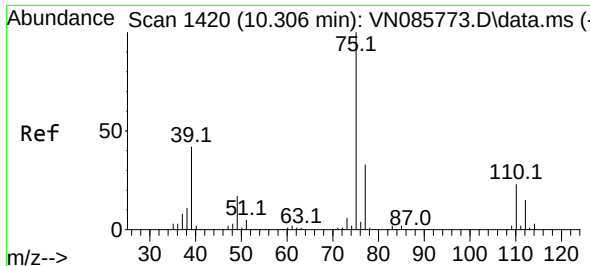
Tgt Ion: 43 Resp: 7650

Ion Ratio Lower Upper

43 100

58 20.7 34.6 52.0#

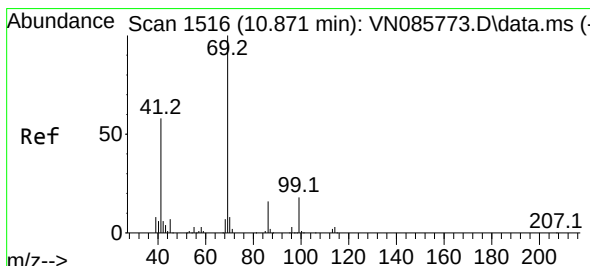
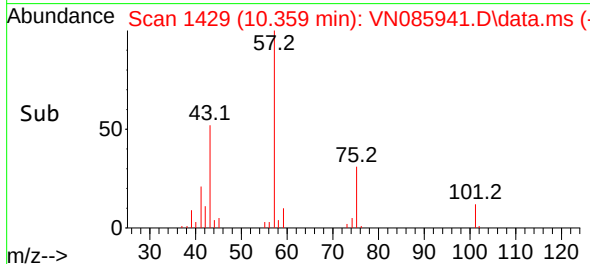
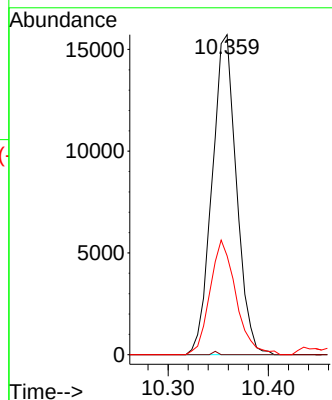
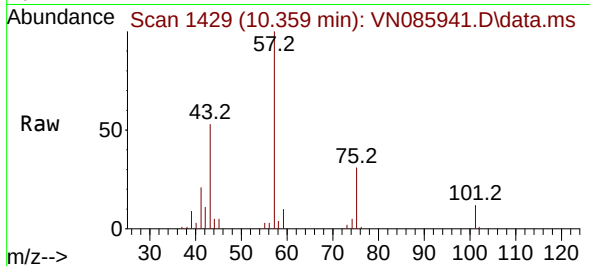




#54
 cis-1,3-Dichloropropene
 Concen: 8.377 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.053 min
 Lab File: VN085941.D
 Acq: 11 Mar 2025 19:04

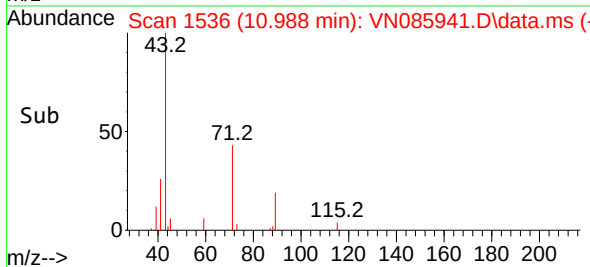
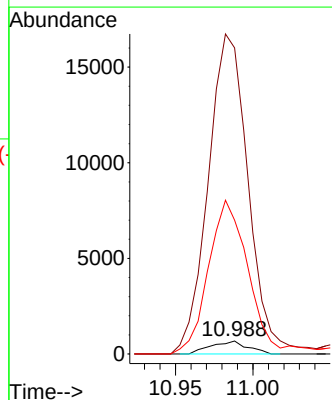
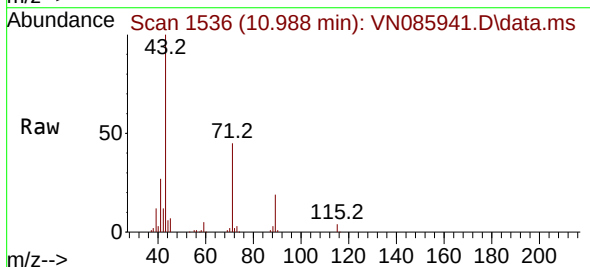
Instrument :
 MSVOA_N
 ClientSampleId :

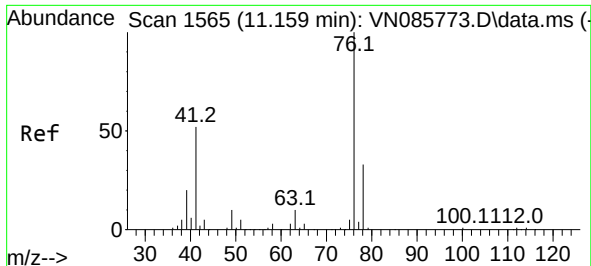
Tgt Ion: 75 Resp: 26557
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.1 39.1#
 39 30.9 33.4 50.0#



#56
 Ethyl methacrylate
 Concen: 0.893 ug/l
 RT: 10.988 min Scan# 1536
 Delta R.T. 0.117 min
 Lab File: VN085941.D
 Acq: 11 Mar 2025 19:04

Tgt Ion: 69 Resp: 1116
 Ion Ratio Lower Upper
 69 100
 41 2703.8 46.0 69.0#
 39 1301.5 22.0 33.0#





#57

1,3-Dichloropropane

Concen: 1.129 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN085941.D

Acq: 11 Mar 2025 19:04

Instrument :

MSVOA_N

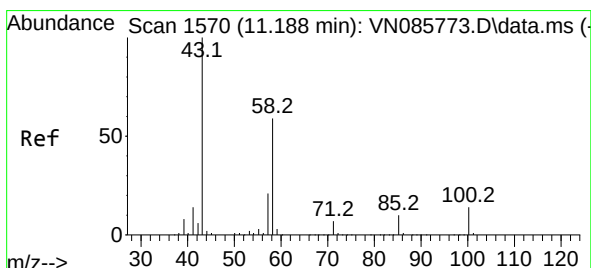
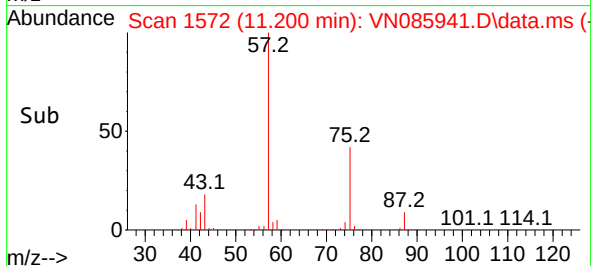
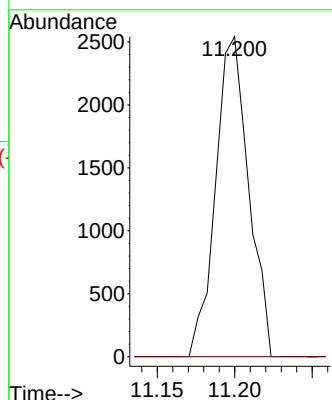
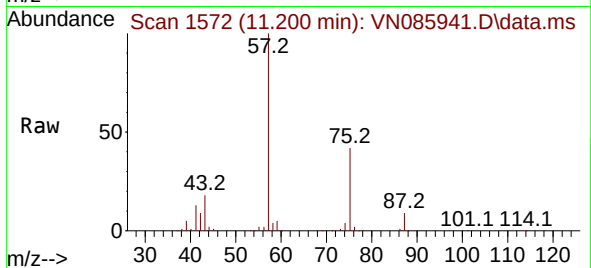
ClientSampleId :

Tgt Ion: 76 Resp: 3770

Ion Ratio Lower Upper

76 100

78 0.0 25.9 38.9#



#59

2-Hexanone

Concen: 29.875 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.012 min

Lab File: VN085941.D

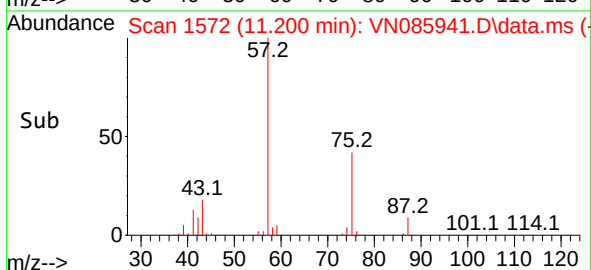
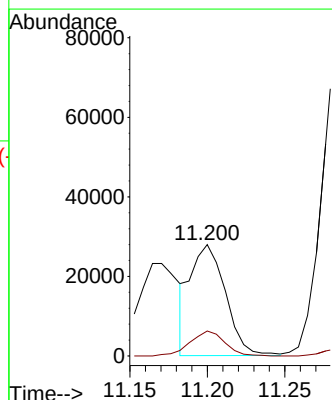
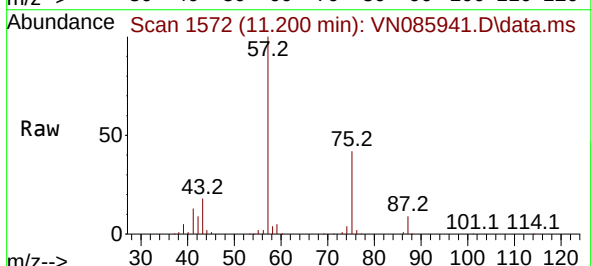
Acq: 11 Mar 2025 19:04

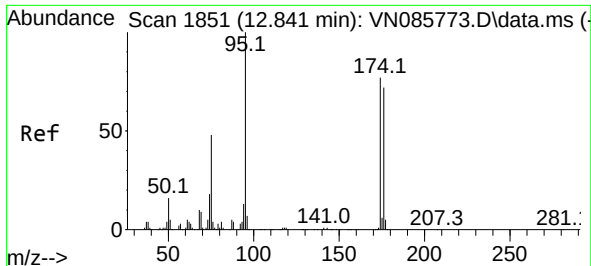
Tgt Ion: 43 Resp: 43668

Ion Ratio Lower Upper

43 100

58 22.4 29.8 89.5#

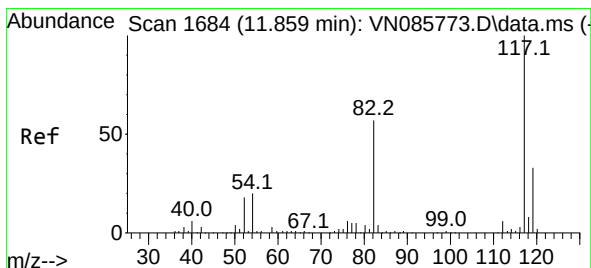
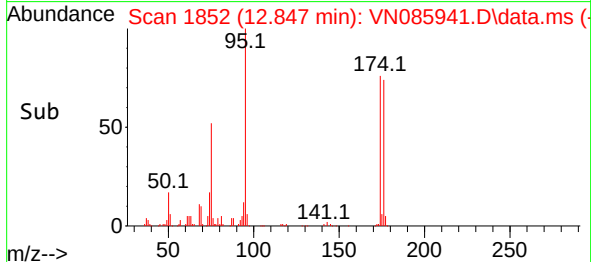
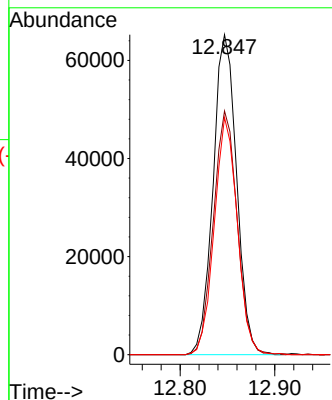
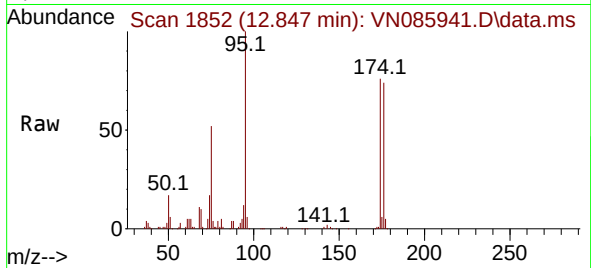




#62
4-Bromofluorobenzene
Concen: 49.758 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085941.D
Acq: 11 Mar 2025 19:04

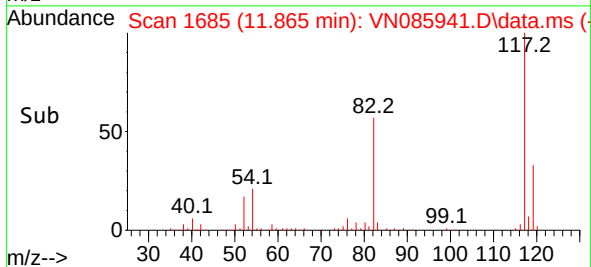
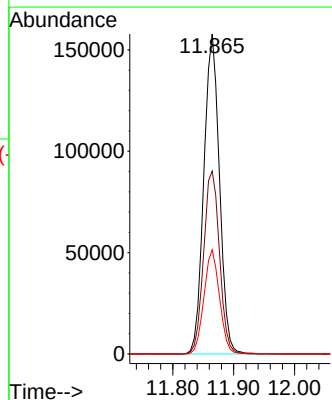
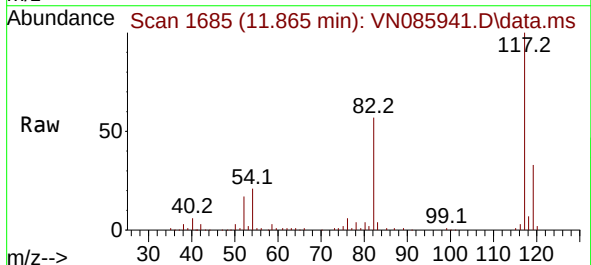
Instrument :
MSVOA_N
ClientSampleId :

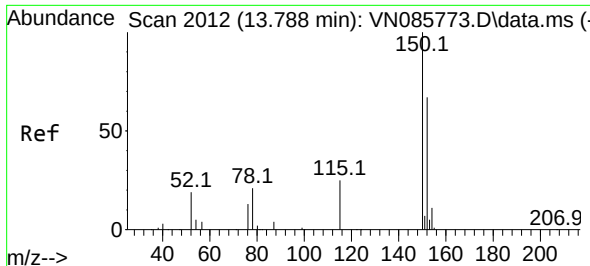
Tgt Ion: 95 Resp: 112863
Ion Ratio Lower Upper
95 100
174 77.0 0.0 152.4
176 72.5 0.0 146.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.006 min
Lab File: VN085941.D
Acq: 11 Mar 2025 19:04

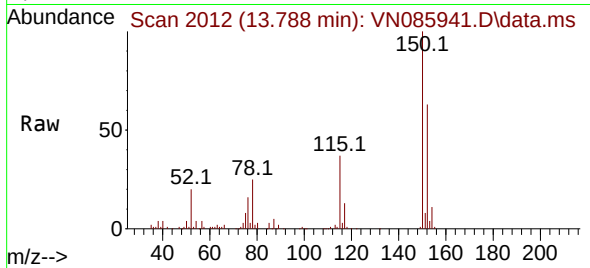
Tgt Ion: 117 Resp: 280808
Ion Ratio Lower Upper
117 100
82 57.2 45.7 68.5
119 32.5 26.2 39.2



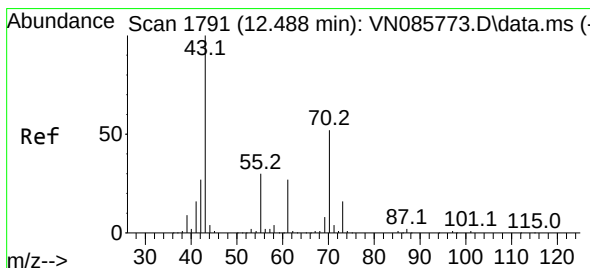
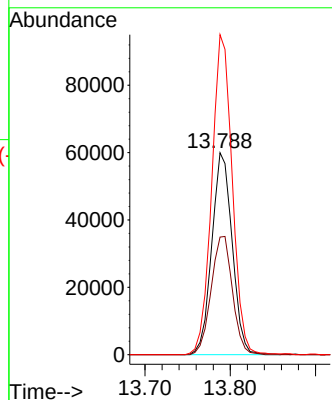
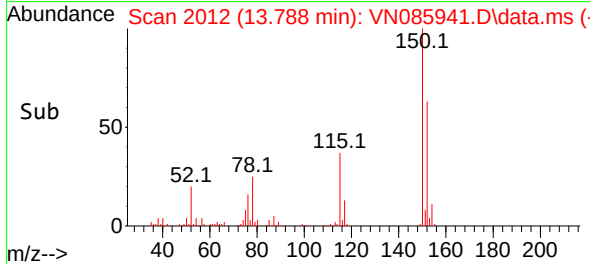


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN085941.D
Acq: 11 Mar 2025 19:04

Instrument :
MSVOA_N
ClientSampleId :

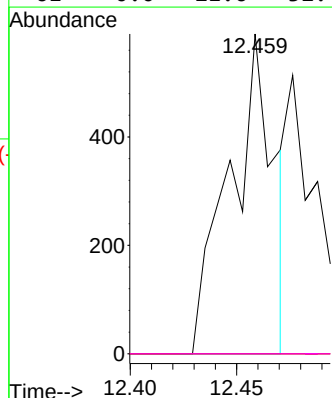
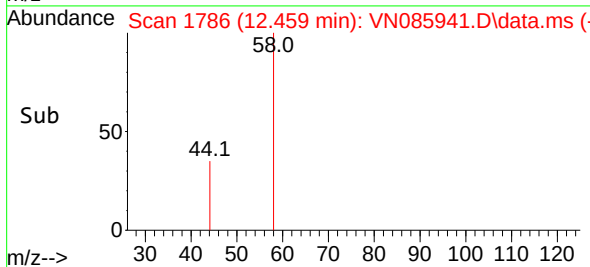
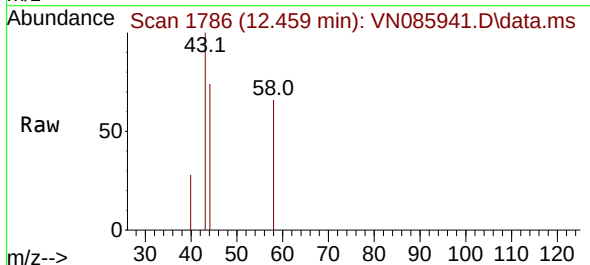


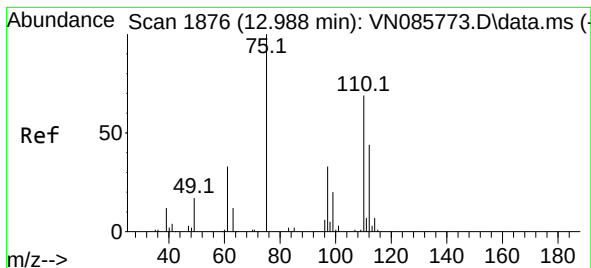
Tgt Ion:152 Resp: 99677
Ion Ratio Lower Upper
152 100
115 61.1 30.4 91.3
150 159.2 0.0 345.4



#74
N-ethyl acetate
Concen: 0.352 ug/l
RT: 12.459 min Scan# 1786
Delta R.T. -0.030 min
Lab File: VN085941.D
Acq: 11 Mar 2025 19:04

Tgt Ion: 43 Resp: 847
Ion Ratio Lower Upper
43 100
70 0.0 41.0 61.4#
55 0.0 24.6 36.8#
61 0.0 21.6 32.4#





#76

1,2,3-Trichloropropane

Concen: 25.573 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN085941.D

Acq: 11 Mar 2025 19:04

Instrument :

MSVOA_N

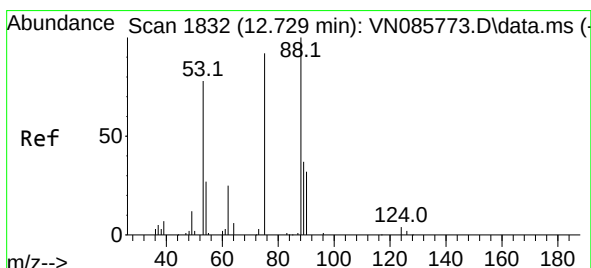
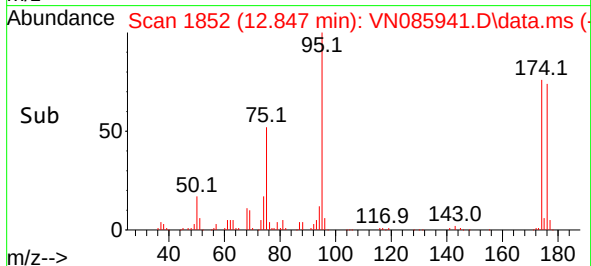
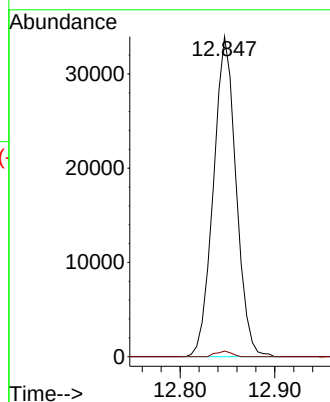
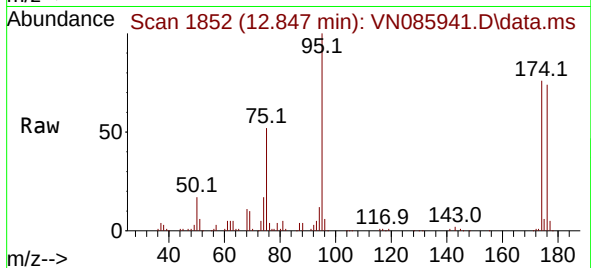
ClientSampleId :

Tgt Ion: 75 Resp: 56622

Ion Ratio Lower Upper

75 100

77 1.2 100.0 300.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 74.615 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.118 min

Lab File: VN085941.D

Acq: 11 Mar 2025 19:04

Tgt Ion: 75 Resp: 56622

Ion Ratio Lower Upper

75 100

53 0.0 74.2 111.4#

89 0.0 34.9 52.3#

