

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091525\
 Data File : VN087833.D
 Acq On : 15 Sep 2025 13:38
 Operator : JC\MD
 Sample : Q3092-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 291376

Quant Time: Sep 16 01:36:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

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

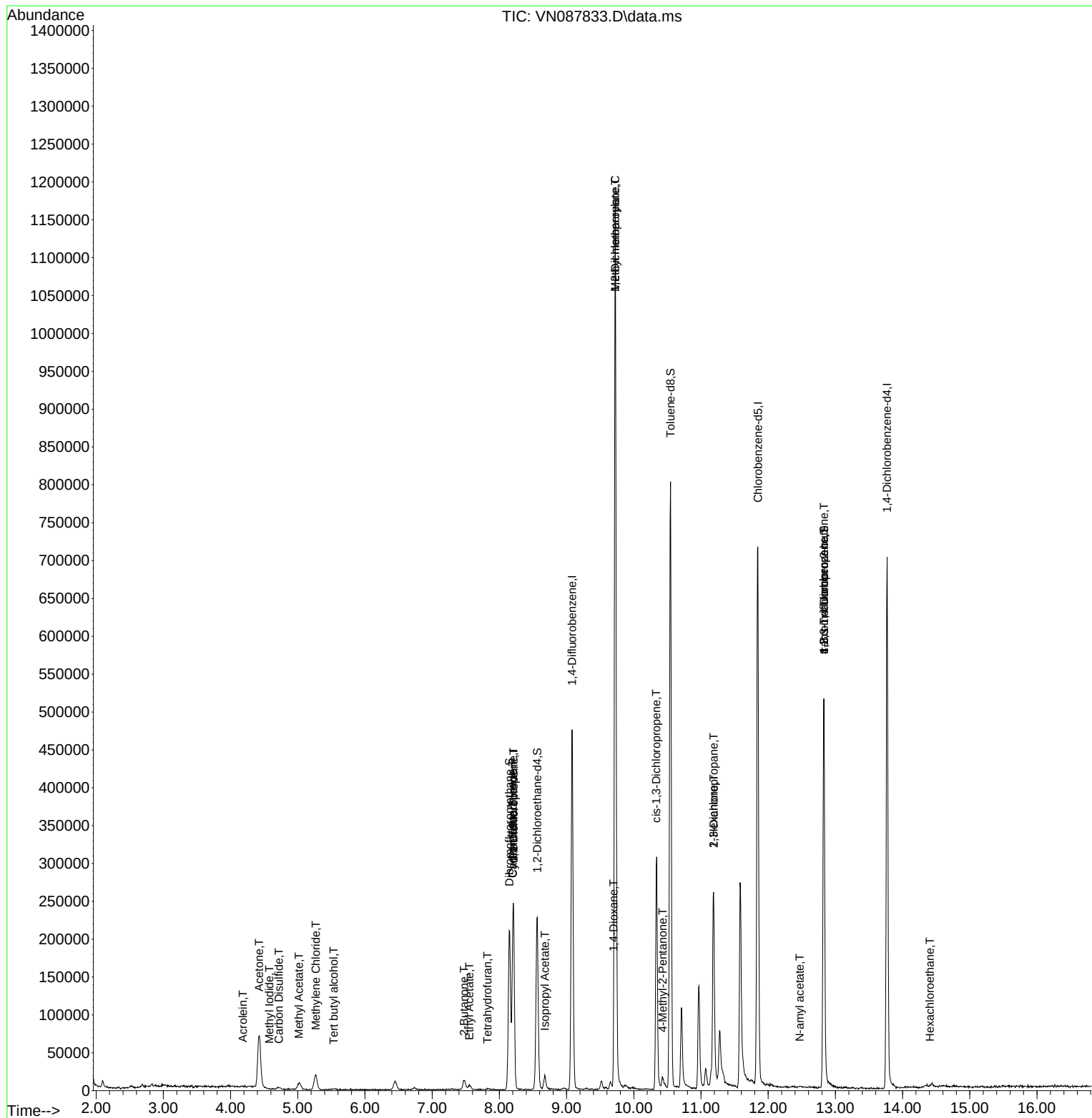
Internal Standards						
1) Pentafluorobenzene	8.206	168	169484	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	394773	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	406404	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	181401	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	189057	54.444	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.880%			
35) Dibromofluoromethane	8.147	113	151770	53.248	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.500%			
50) Toluene-d8	10.547	98	532119	49.880	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.760%			
62) 4-Bromofluorobenzene	12.829	95	180259	47.513	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 95.020%			
Target Compounds					Qvalue	
10) Methyl Iodide	4.577	142	53	6.836	ug/l #	38
11) Tert butyl alcohol	5.536	59	870	1.443	ug/l #	71
13) Acrolein	4.183	56	496	0.669	ug/l #	14
16) Acetone	4.424	43	140870	74.521	ug/l	93
17) Carbon Disulfide	4.718	76	1468	0.218	ug/l #	74
18) Methyl Acetate	5.018	43	20985	5.302	ug/l #	74
20) Methylene Chloride	5.271	84	15537	4.554	ug/l #	81
25) 2-Butanone	7.477	43	23531	9.462	ug/l #	84
29) Tetrahydrofuran	7.824	42	555	0.347	ug/l #	64
31) Cyclohexane	8.200	56	5212	1.193	ug/l #	28
36) 1,1-Dichloropropene	8.212	75	16147	3.693	ug/l #	47
37) Ethyl Acetate	7.553	43	9343	1.564	ug/l #	82
38) Carbon Tetrachloride	8.200	117	20370	4.718	ug/l #	15
43) Isopropyl Acetate	8.677	43	21560	2.311	ug/l	95
45) 1,2-Dichloropropane	9.724	63	1341	0.379	ug/l #	43
48) Methyl methacrylate	9.724	41	113372	25.693	ug/l #	46
49) 1,4-Dioxane	9.700	88	60	1.049	ug/l #	13
51) 4-Methyl-2-Pentanone	10.429	43	17499	3.109	ug/l #	75
54) cis-1,3-Dichloropropene	10.335	75	52120	9.406	ug/l #	64
57) 1,3-Dichloropropane	11.188	76	3461	0.608	ug/l #	42
59) 2-Hexanone	11.188	43	56831	15.977	ug/l #	50
74) N-amyl acetate	12.471	43	1655	0.298	ug/l #	51
76) 1,2,3-Trichloropropane	12.829	75	103678	24.372	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	103678	64.523	ug/l #	1
90) Hexachloroethane	14.406	117	512	0.212	ug/l #	22

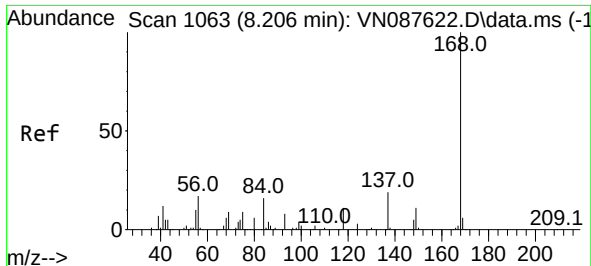
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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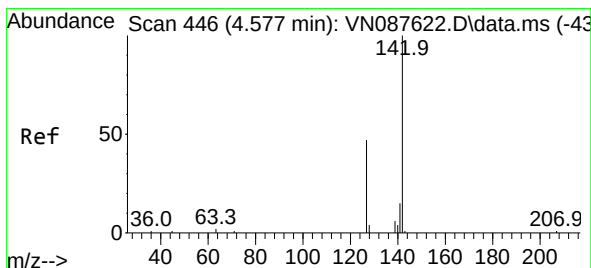
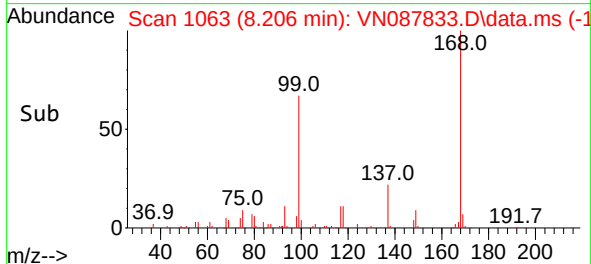
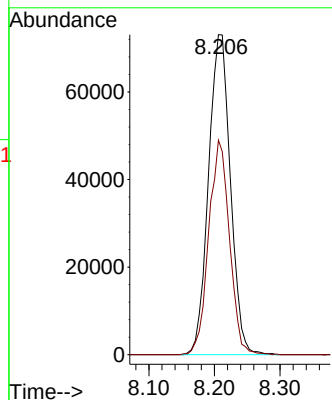
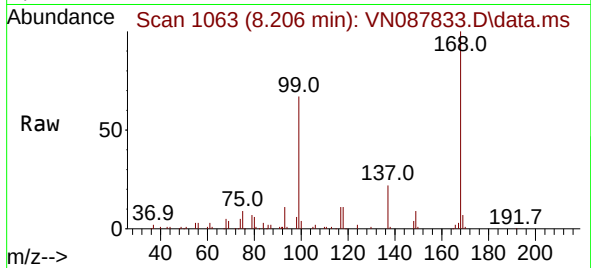




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN087833.D
Acq: 15 Sep 2025 13:38

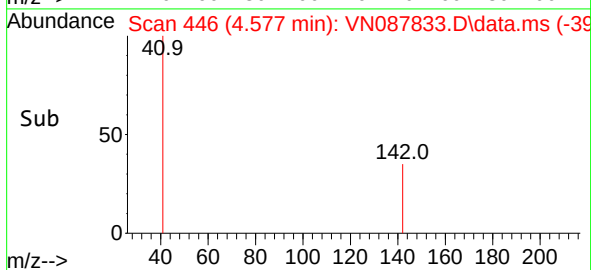
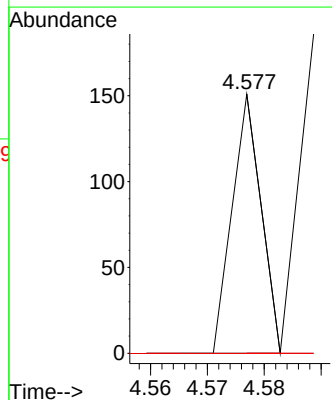
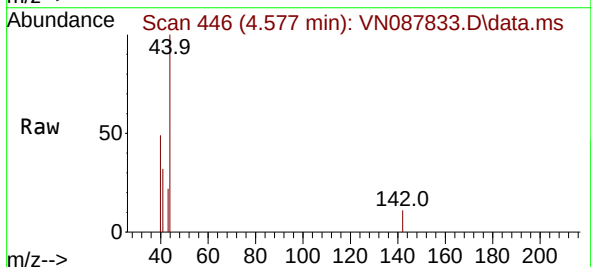
Instrument :
MSVOA_N
ClientSampleId :
291376

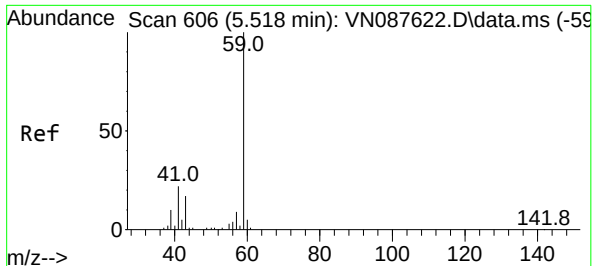
Tgt Ion:168 Resp: 169484
Ion Ratio Lower Upper
168 100
99 67.1 57.2 85.8



#10
Methyl Iodide
Concen: 6.836 ug/l
RT: 4.577 min Scan# 446
Delta R.T. -0.000 min
Lab File: VN087833.D
Acq: 15 Sep 2025 13:38

Tgt Ion:142 Resp: 53
Ion Ratio Lower Upper
142 100
127 0.0 38.0 57.0#
141 0.0 12.0 18.0#

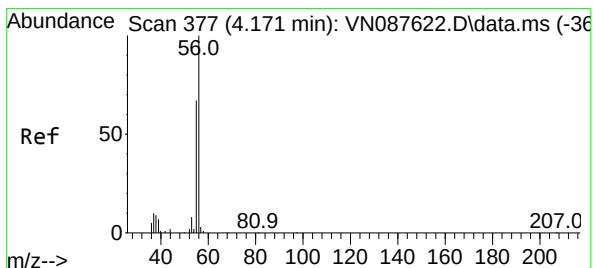
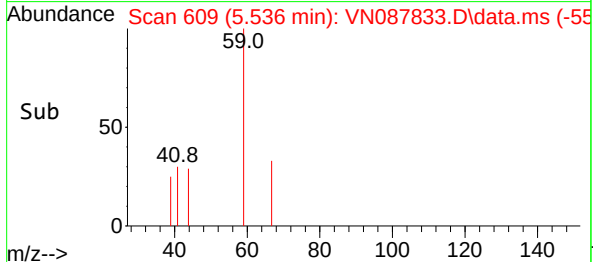
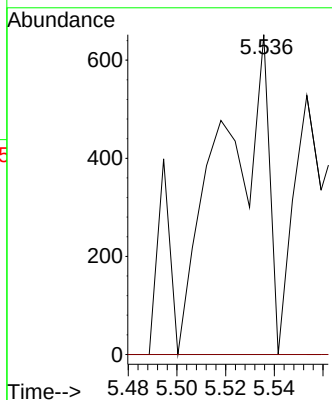
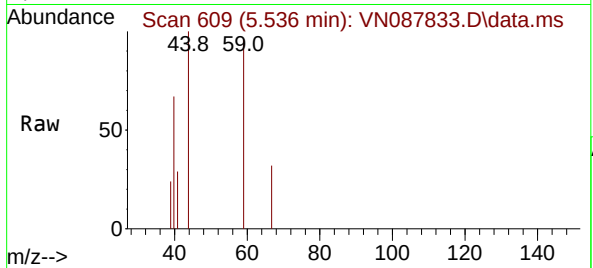




#11
Tert butyl alcohol
Concen: 1.443 ug/l
RT: 5.536 min Scan# 609
Delta R.T. 0.018 min
Lab File: VN087833.D
Acq: 15 Sep 2025 13:38

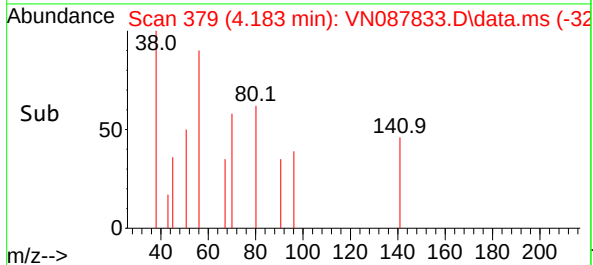
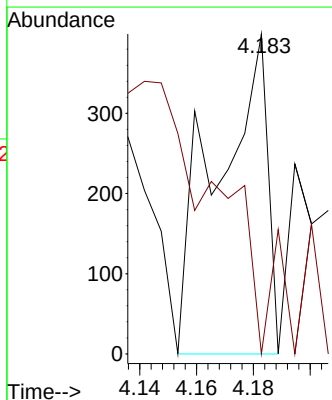
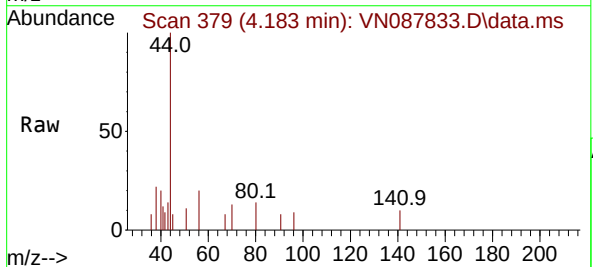
Instrument :
MSVOA_N
ClientSampleId :
291376

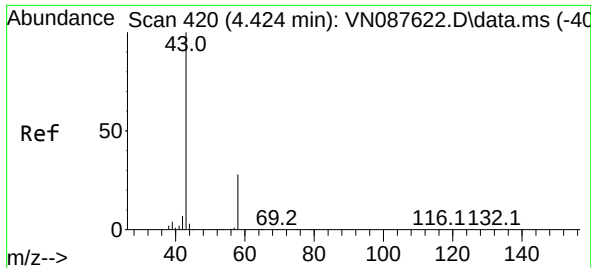
Tgt Ion: 59 Resp: 870
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#



#13
Acrolein
Concen: 0.669 ug/l
RT: 4.183 min Scan# 379
Delta R.T. 0.012 min
Lab File: VN087833.D
Acq: 15 Sep 2025 13:38

Tgt Ion: 56 Resp: 496
Ion Ratio Lower Upper
56 100
55 0.0 57.3 85.9#





#16

Acetone

Concen: 74.521 ug/l

RT: 4.424 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN087833.D

Acq: 15 Sep 2025 13:38

Instrument :

MSVOA_N

ClientSampleId :

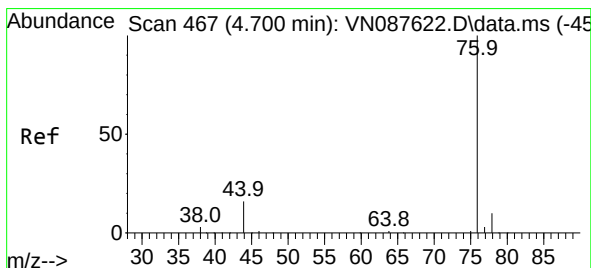
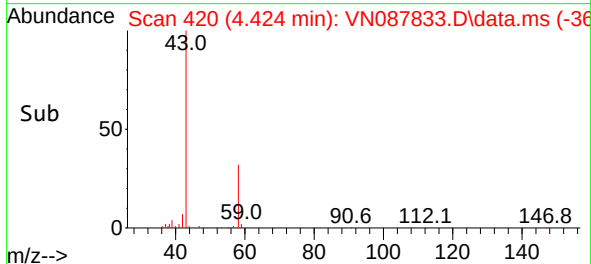
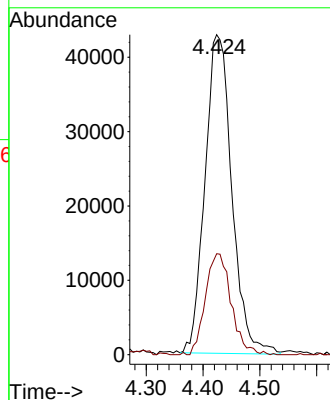
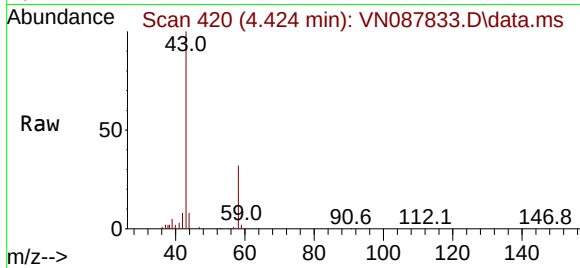
291376

Tgt Ion: 43 Resp: 140870

Ion Ratio Lower Upper

43 100

58 31.8 22.6 33.8



#17

Carbon Disulfide

Concen: 0.218 ug/l

RT: 4.718 min Scan# 470

Delta R.T. 0.018 min

Lab File: VN087833.D

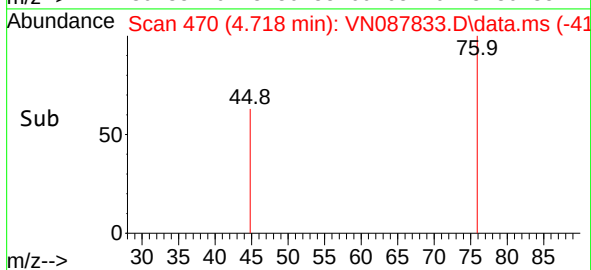
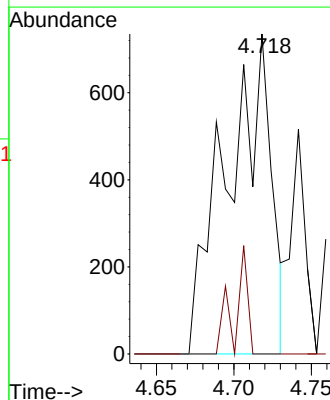
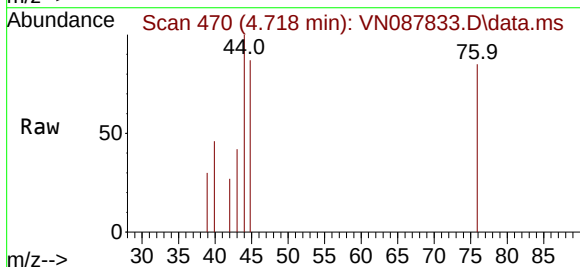
Acq: 15 Sep 2025 13:38

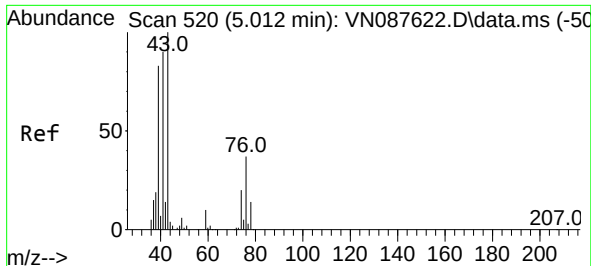
Tgt Ion: 76 Resp: 1468

Ion Ratio Lower Upper

76 100

78 0.0 7.6 11.4#

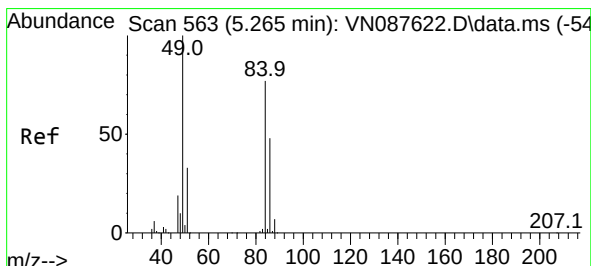
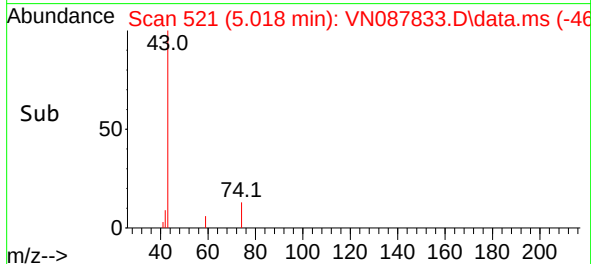
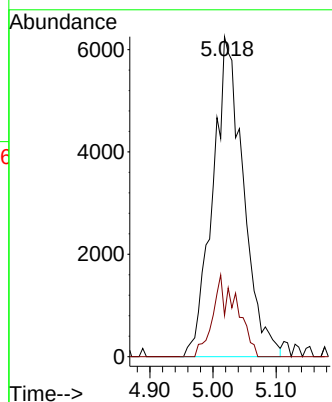
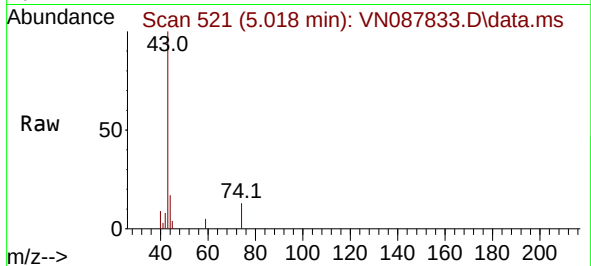




#18
Methyl Acetate
Concen: 5.302 ug/l
RT: 5.018 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN087833.D
Acq: 15 Sep 2025 13:38

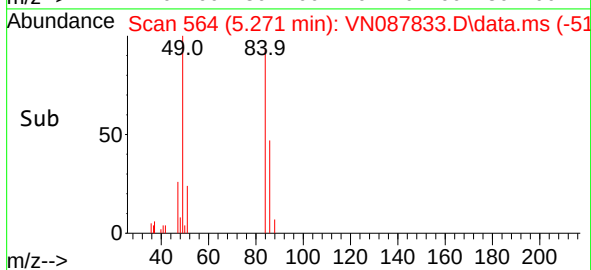
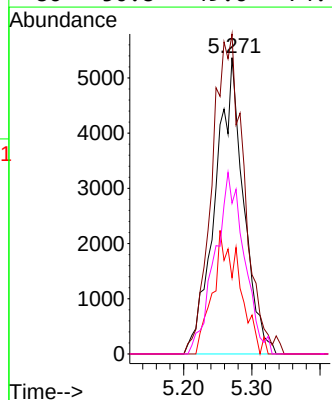
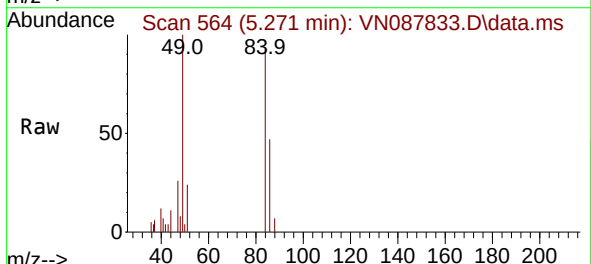
Instrument :
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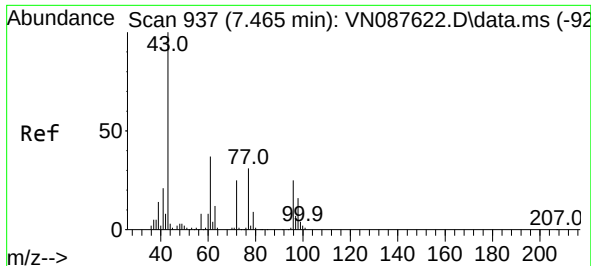
Tgt Ion: 43 Resp: 20985
Ion Ratio Lower Upper
43 100
74 9.7 17.6 26.4#



#20
Methylene Chloride
Concen: 4.554 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.006 min
Lab File: VN087833.D
Acq: 15 Sep 2025 13:38

Tgt Ion: 84 Resp: 15537
Ion Ratio Lower Upper
84 100
49 108.0 103.4 155.2
51 25.7 33.8 50.8#
86 50.8 49.6 74.4

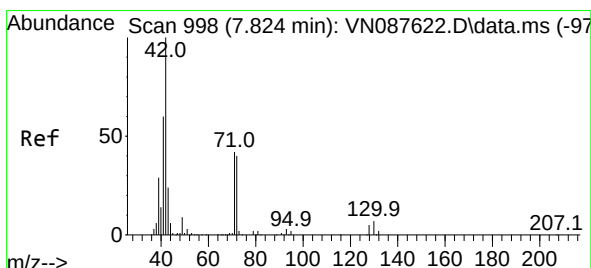
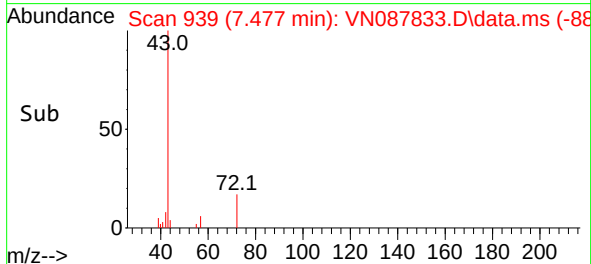
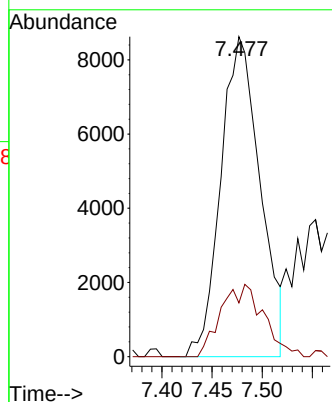
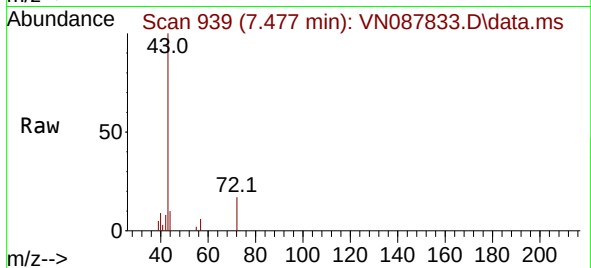




#25
2-Butanone
Concen: 9.462 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN087833.D
Acq: 15 Sep 2025 13:38

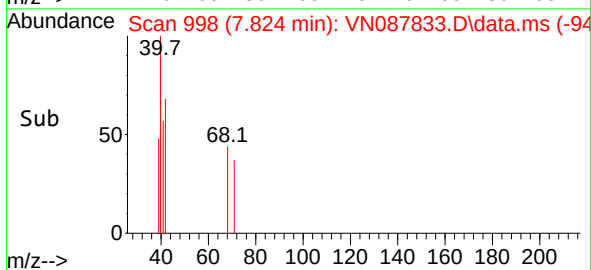
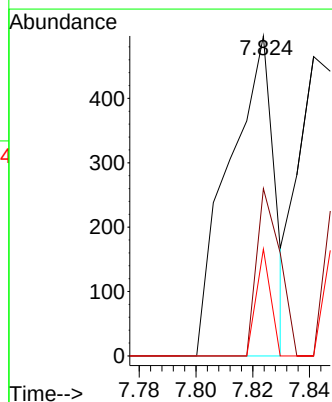
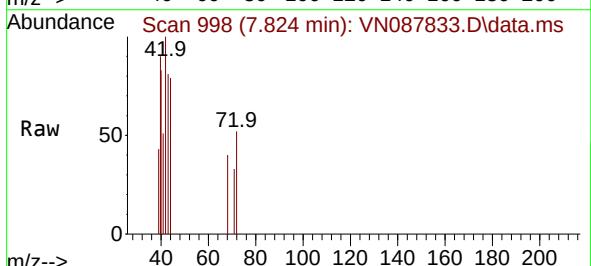
Instrument :
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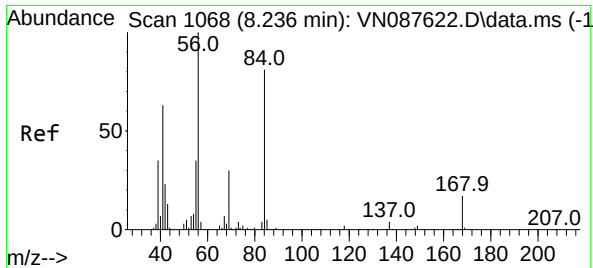
Tgt Ion: 43 Resp: 23531
Ion Ratio Lower Upper
43 100
72 16.8 19.9 29.9#



#29
Tetrahydrofuran
Concen: 0.347 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN087833.D
Acq: 15 Sep 2025 13:38

Tgt Ion: 42 Resp: 555
Ion Ratio Lower Upper
42 100
72 26.7 33.7 50.5#
71 10.6 31.9 47.9#

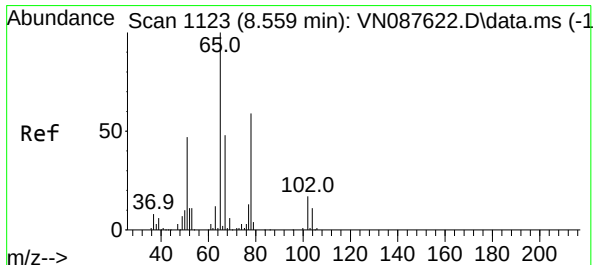
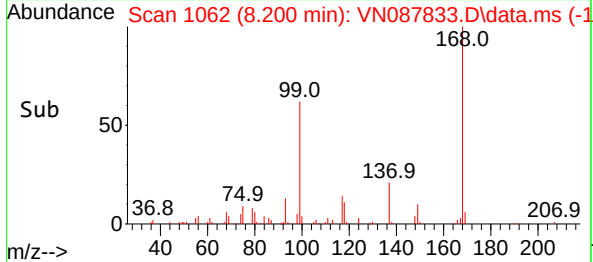
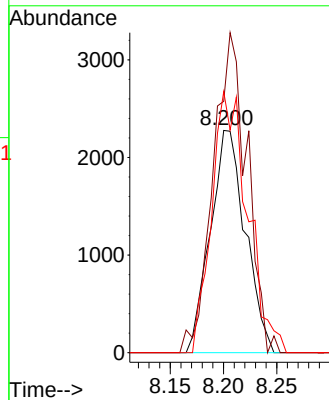
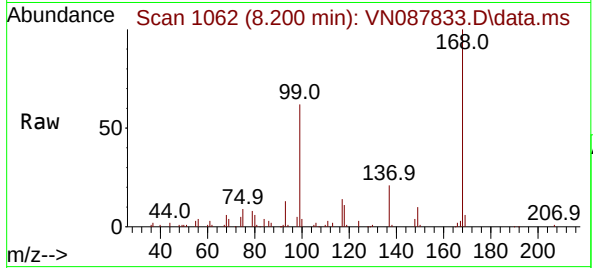




#31
Cyclohexane
Concen: 1.193 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.035 min
Lab File: VN087833.D
Acq: 15 Sep 2025 13:38

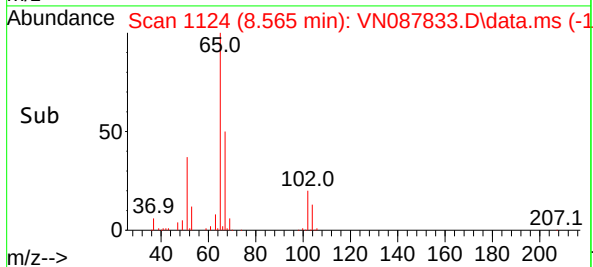
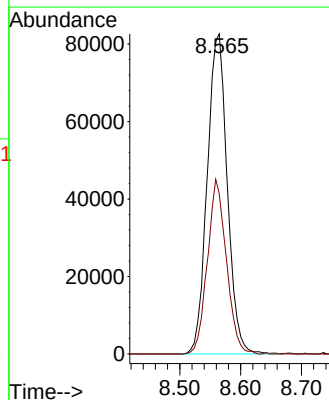
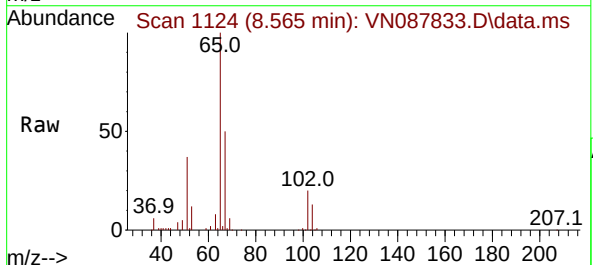
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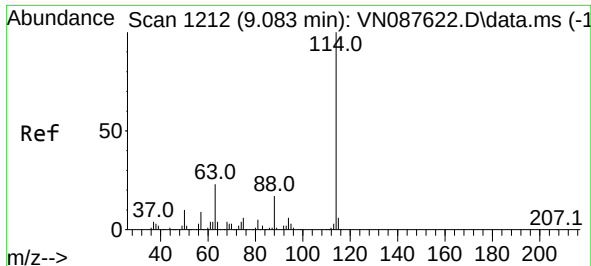
Tgt Ion: 56 Resp: 5212
Ion Ratio Lower Upper
56 100
69 113.0 23.7 35.5#
84 117.4 64.7 97.1#



#33
1,2-Dichloroethane-d4
Concen: 54.444 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. 0.006 min
Lab File: VN087833.D
Acq: 15 Sep 2025 13:38

Tgt Ion: 65 Resp: 189057
Ion Ratio Lower Upper
65 100
67 51.6 0.0 100.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN087833.D

Acq: 15 Sep 2025 13:38

Instrument :

MSVOA_N

ClientSampleId :

291376

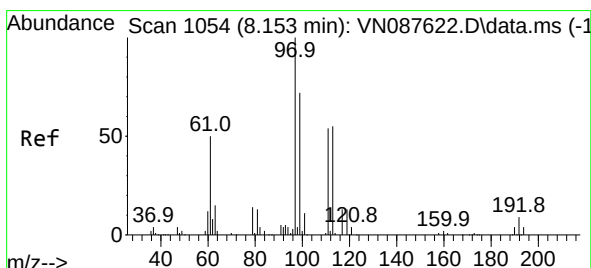
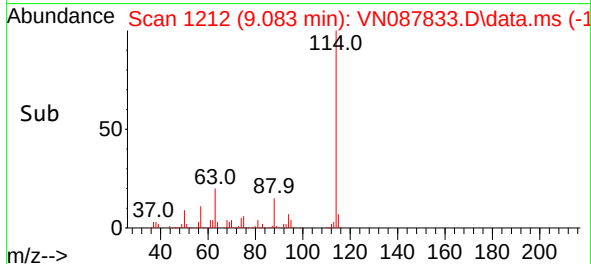
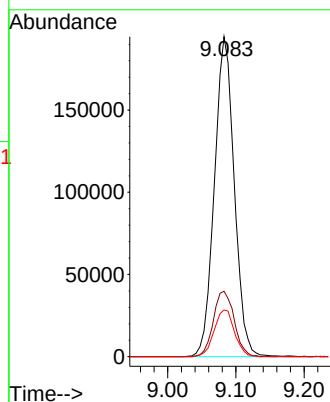
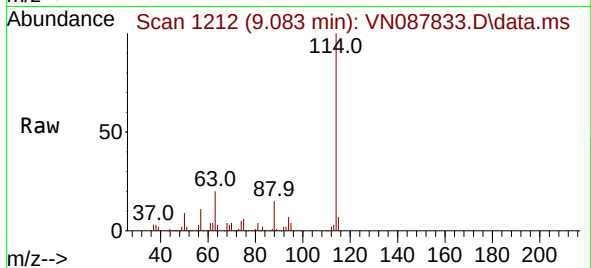
Tgt Ion:114 Resp: 394773

Ion Ratio Lower Upper

114 100

63 20.4 0.0 45.2

88 14.6 0.0 33.4



#35

Dibromofluoromethane

Concen: 53.248 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN087833.D

Acq: 15 Sep 2025 13:38

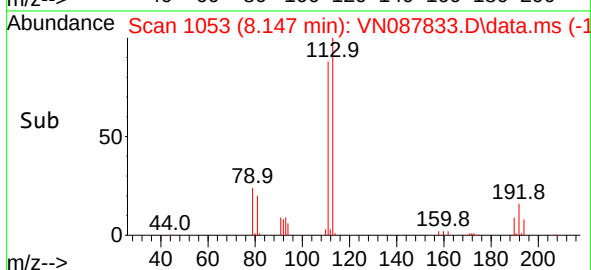
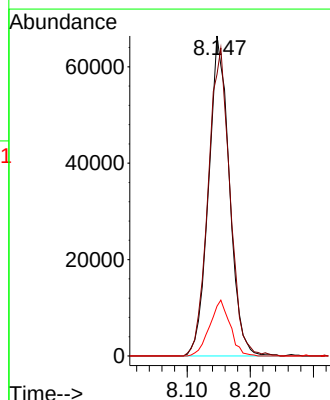
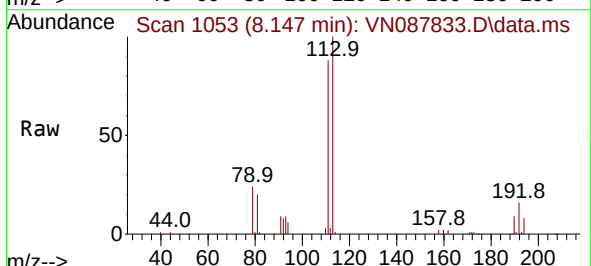
Tgt Ion:113 Resp: 151770

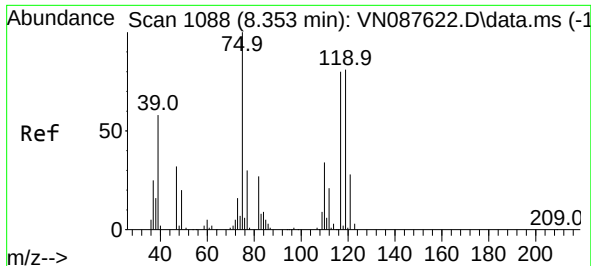
Ion Ratio Lower Upper

113 100

111 100.8 82.8 124.2

192 17.1 12.8 19.2

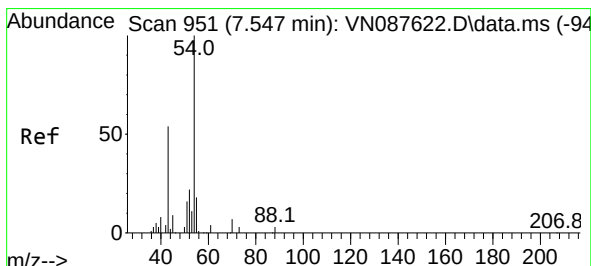
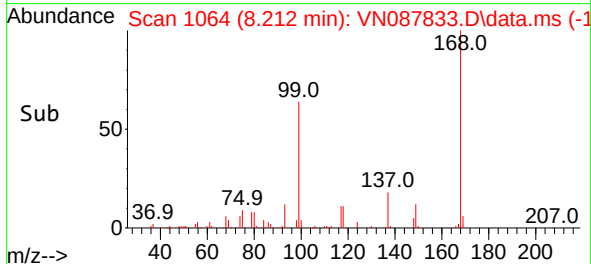
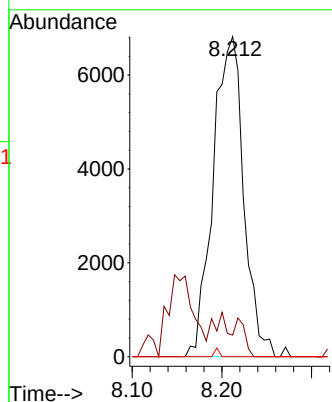
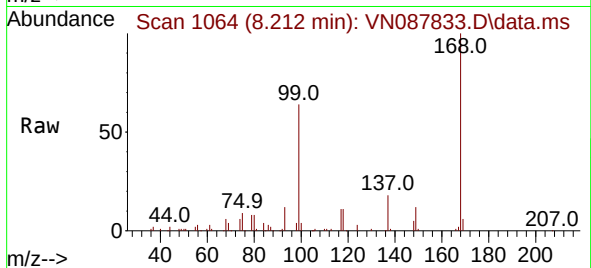




#36
1,1-Dichloropropene
Concen: 3.693 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.141 min
Lab File: VN087833.D
Acq: 15 Sep 2025 13:38

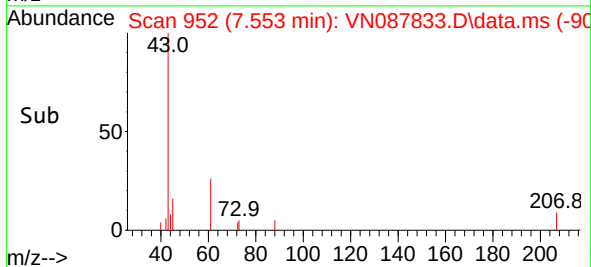
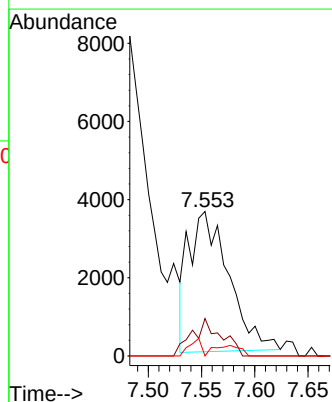
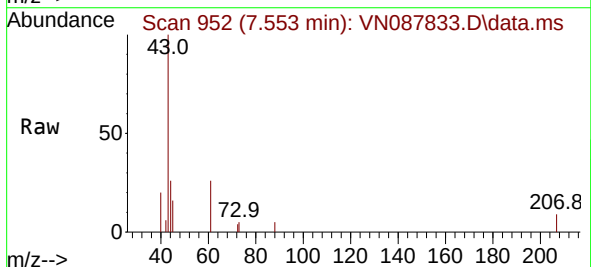
Instrument :
MSVOA_N
ClientSampleId :
291376

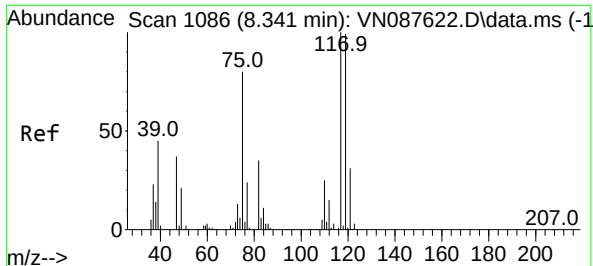
Tgt Ion: 75 Resp: 16147
Ion Ratio Lower Upper
75 100
110 3.5 15.9 47.6#
77 0.4 24.4 36.6#



#37
Ethyl Acetate
Concen: 1.564 ug/l
RT: 7.553 min Scan# 952
Delta R.T. 0.006 min
Lab File: VN087833.D
Acq: 15 Sep 2025 13:38

Tgt Ion: 43 Resp: 9343
Ion Ratio Lower Upper
43 100
61 19.6 9.3 13.9#
70 3.7 7.0 10.6#

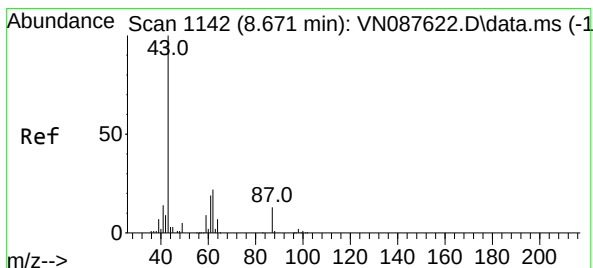
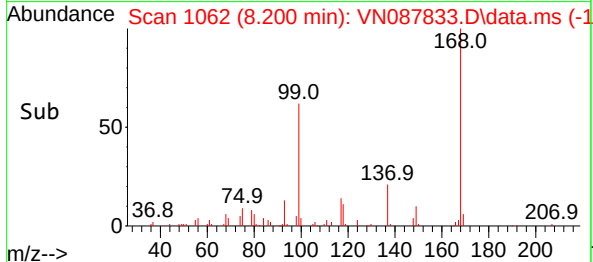
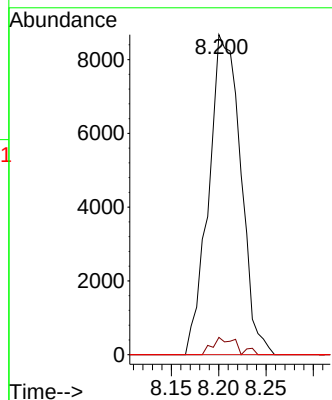
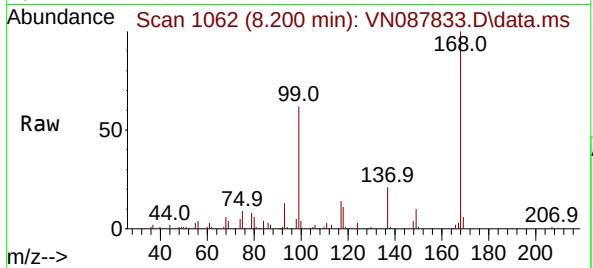




#38
Carbon Tetrachloride
Concen: 4.718 ug/l
RT: 8.200 min Scan# 110
Delta R.T. -0.141 min
Lab File: VN087833.D
Acq: 15 Sep 2025 13:38

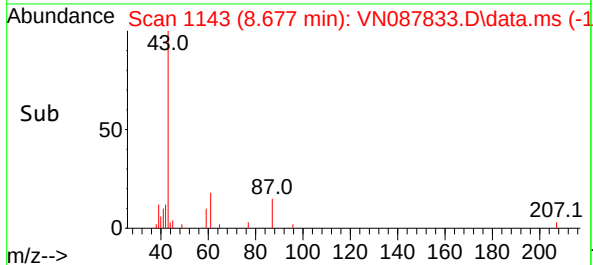
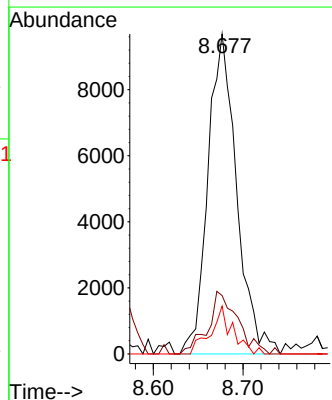
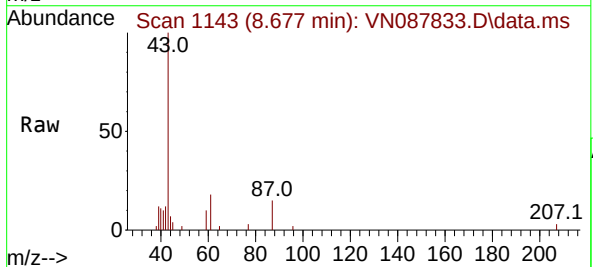
Instrument :
MSVOA_N
ClientSampleId :
291376

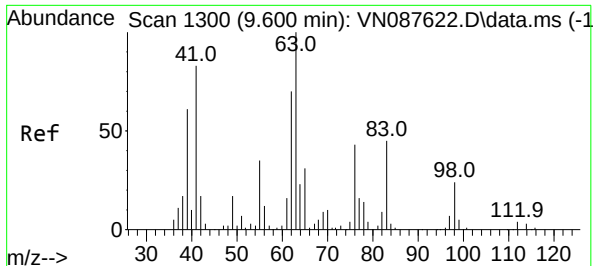
Tgt Ion: 117 Resp: 20370
Ion Ratio Lower Upper
117 100
119 5.4 79.0 118.6#
121 0.0 25.0 37.6#



#43
Isopropyl Acetate
Concen: 2.311 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VN087833.D
Acq: 15 Sep 2025 13:38

Tgt Ion: 43 Resp: 21560
Ion Ratio Lower Upper
43 100
61 20.1 18.8 28.2
87 11.5 9.6 14.4





#45

1,2-Dichloropropane

Concen: 0.379 ug/l

RT: 9.724 min Scan# 1321

Delta R.T. 0.123 min

Lab File: VN087833.D

Acq: 15 Sep 2025 13:38

Instrument :

MSVOA_N

ClientSampleId :

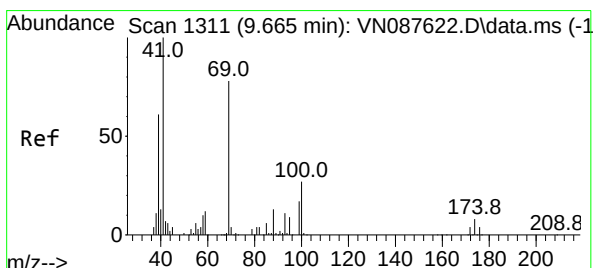
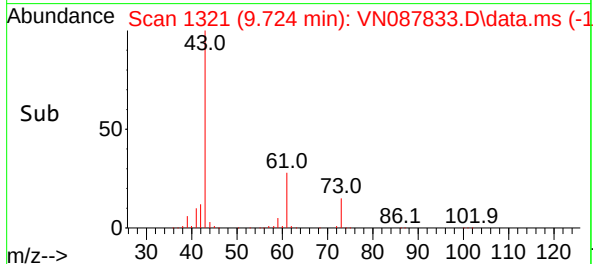
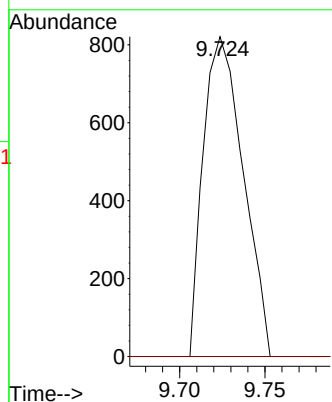
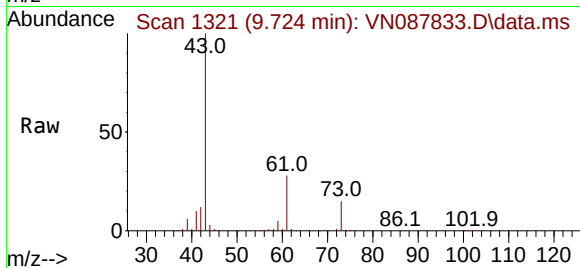
291376

Tgt Ion: 63 Resp: 1341

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#



#48

Methyl methacrylate

Concen: 25.693 ug/l

RT: 9.724 min Scan# 1321

Delta R.T. 0.059 min

Lab File: VN087833.D

Acq: 15 Sep 2025 13:38

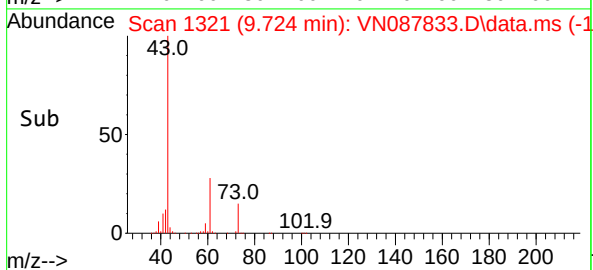
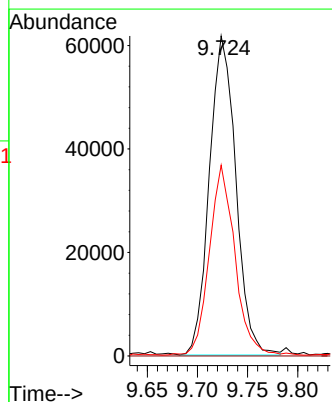
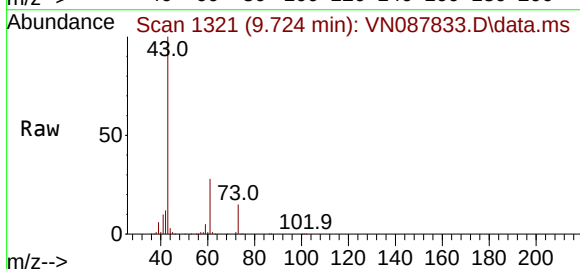
Tgt Ion: 41 Resp: 113372

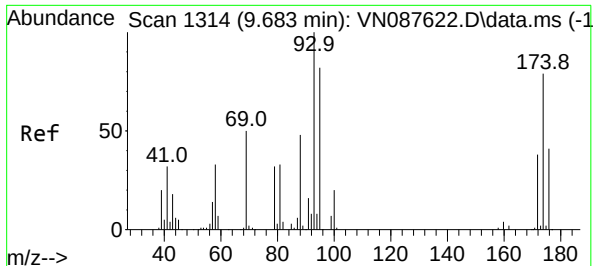
Ion Ratio Lower Upper

41 100

69 0.0 62.7 94.1#

39 57.4 52.9 79.3





#49

1,4-Dioxane

Concen: 1.049 ug/l

RT: 9.700 min Scan# 1

Delta R.T. 0.018 min

Lab File: VN087833.D

Acq: 15 Sep 2025 13:38

Instrument :

MSVOA_N

ClientSampleId :

291376

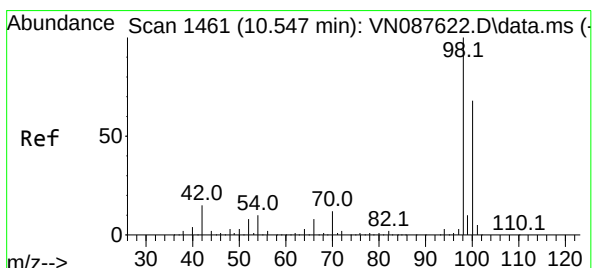
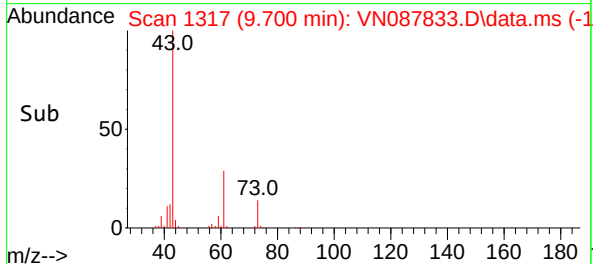
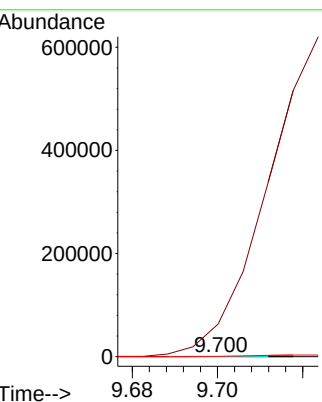
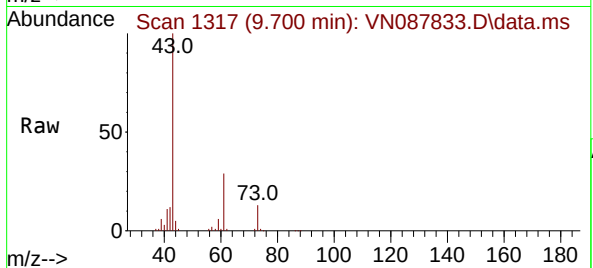
Tgt Ion: 88 Resp: 60

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

58 0.0 57.9 86.9#



#50

Toluene-d8

Concen: 49.880 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. -0.000 min

Lab File: VN087833.D

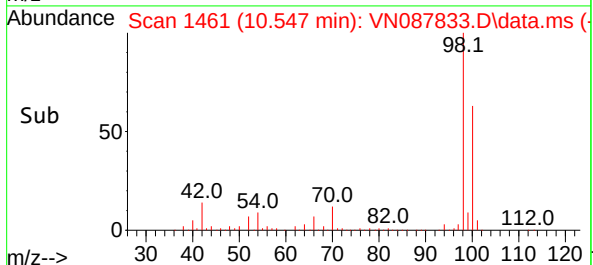
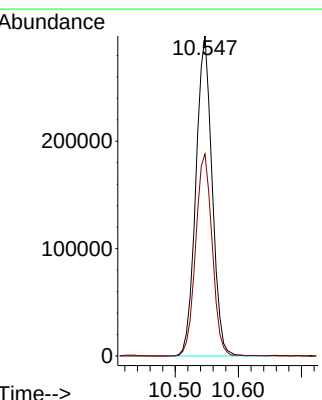
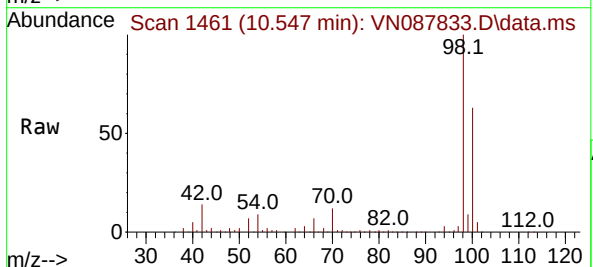
Acq: 15 Sep 2025 13:38

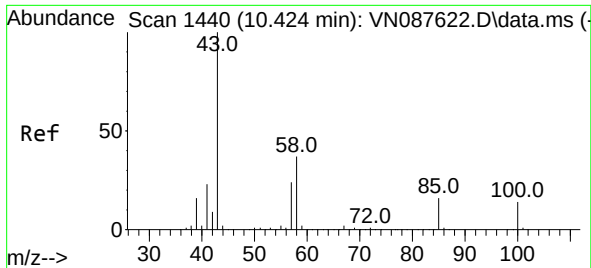
Tgt Ion: 98 Resp: 532119

Ion Ratio Lower Upper

98 100

100 64.2 52.8 79.2

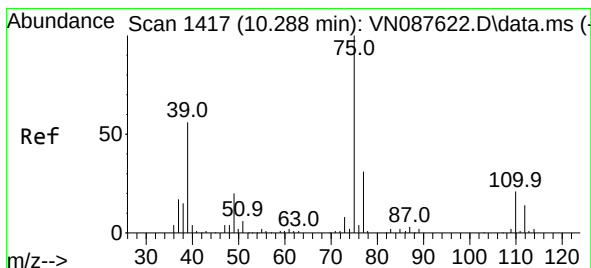
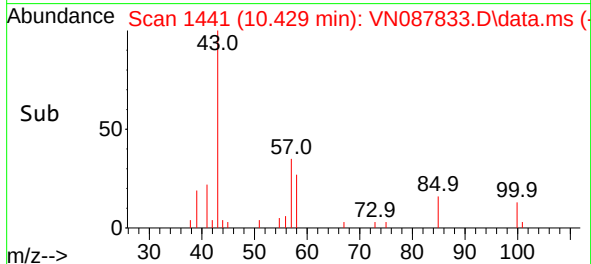
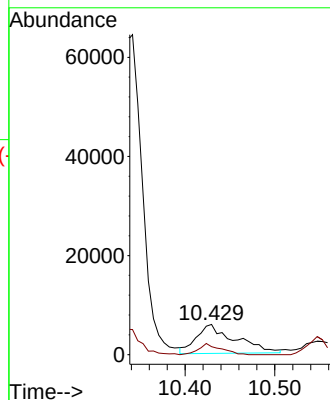
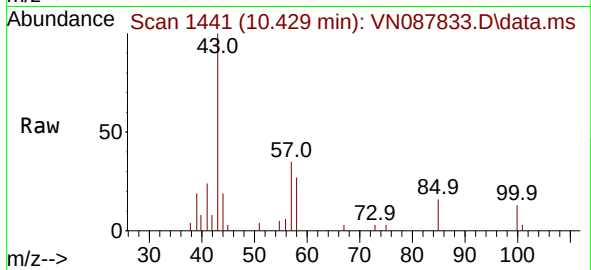




#51
4-Methyl-2-Pentanone
Concen: 3.109 ug/l
RT: 10.429 min Scan# 1440
Delta R.T. 0.006 min
Lab File: VN087833.D
Acq: 15 Sep 2025 13:38

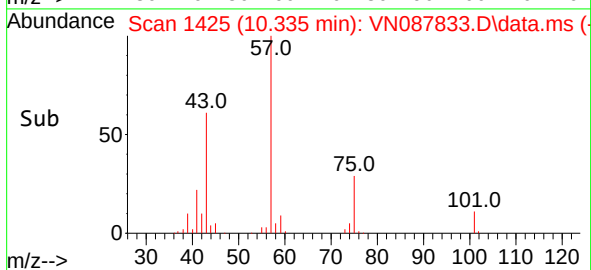
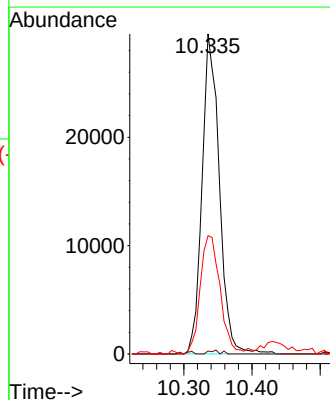
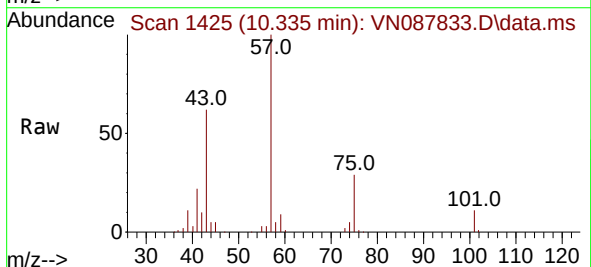
Instrument :
MSVOA_N
ClientSampleId :
291376

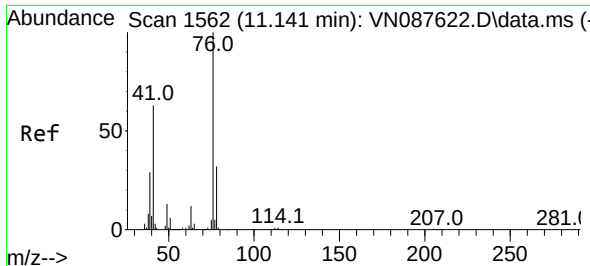
Tgt Ion: 43 Resp: 17499
Ion Ratio Lower Upper
43 100
58 22.0 29.6 44.4#



#54
cis-1,3-Dichloropropene
Concen: 9.406 ug/l
RT: 10.335 min Scan# 1425
Delta R.T. 0.047 min
Lab File: VN087833.D
Acq: 15 Sep 2025 13:38

Tgt Ion: 75 Resp: 52120
Ion Ratio Lower Upper
75 100
77 0.9 24.6 37.0#
39 36.9 45.2 67.8#





#57

1,3-Dichloropropane

Concen: 0.608 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. 0.047 min

Lab File: VN087833.D

Acq: 15 Sep 2025 13:38

Instrument :

MSVOA_N

ClientSampleId :

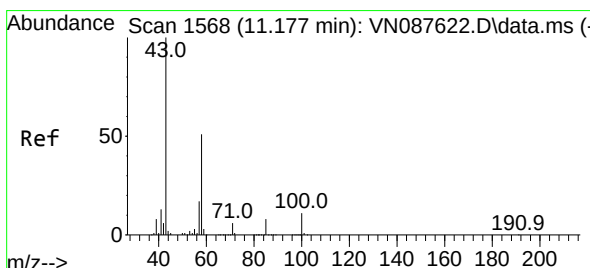
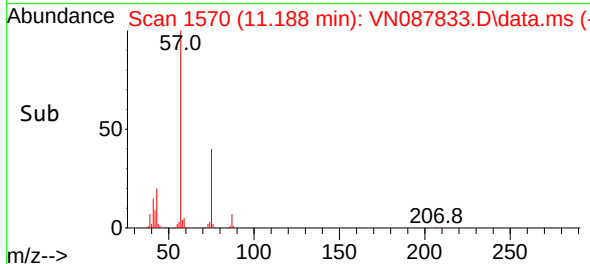
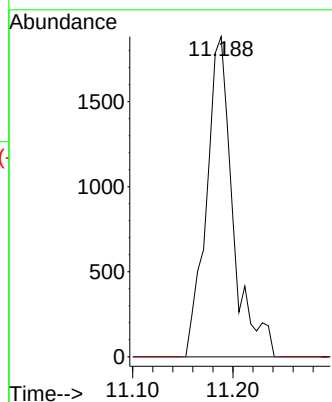
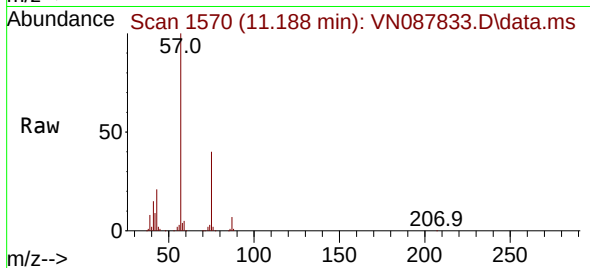
291376

Tgt Ion: 76 Resp: 3461

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.4#



#59

2-Hexanone

Concen: 15.977 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. 0.012 min

Lab File: VN087833.D

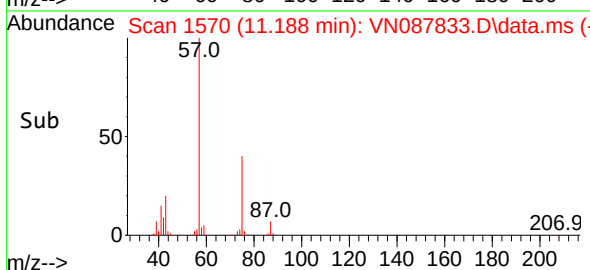
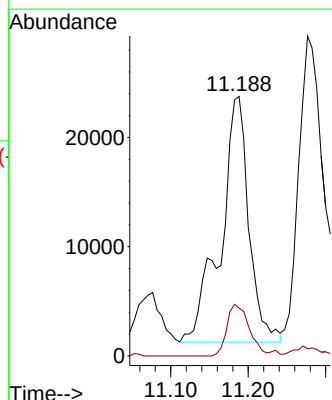
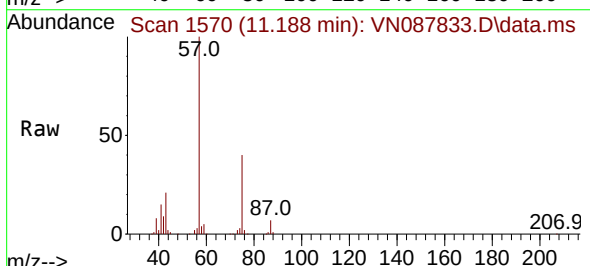
Acq: 15 Sep 2025 13:38

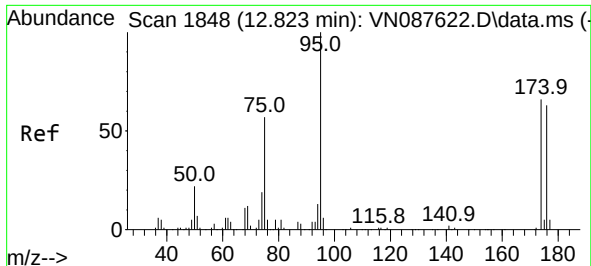
Tgt Ion: 43 Resp: 56831

Ion Ratio Lower Upper

43 100

58 17.1 25.9 77.8#

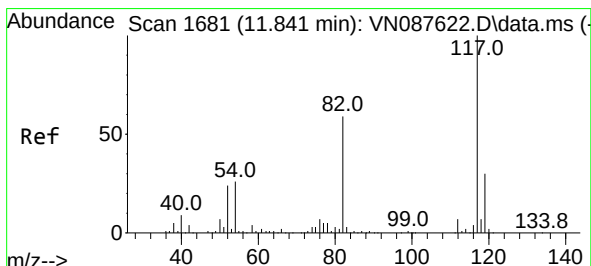
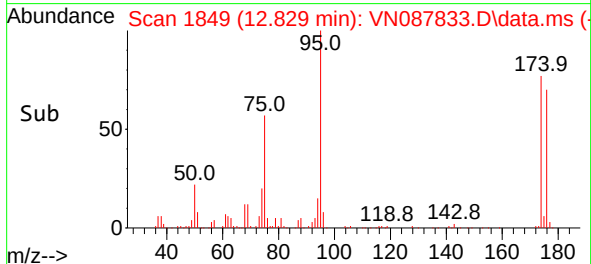
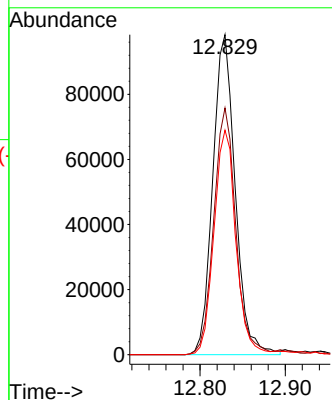
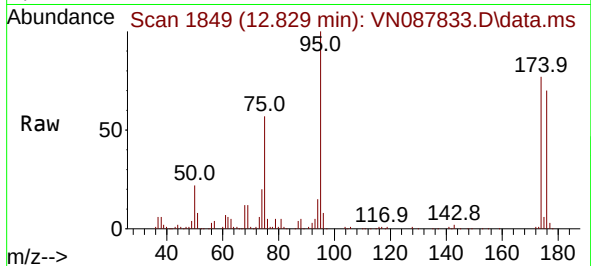




#62
4-Bromofluorobenzene
Concen: 47.513 ug/l
RT: 12.829 min Scan# 1848
Delta R.T. 0.006 min
Lab File: VN087833.D
Acq: 15 Sep 2025 13:38

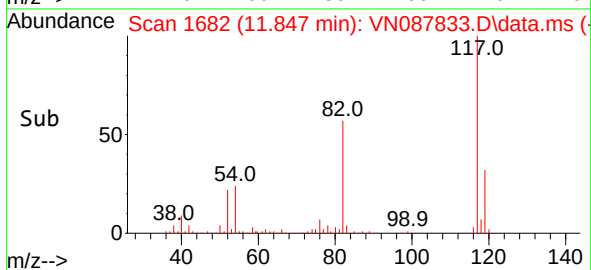
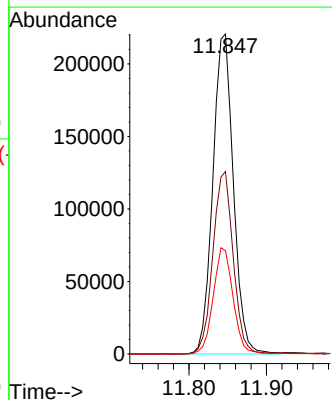
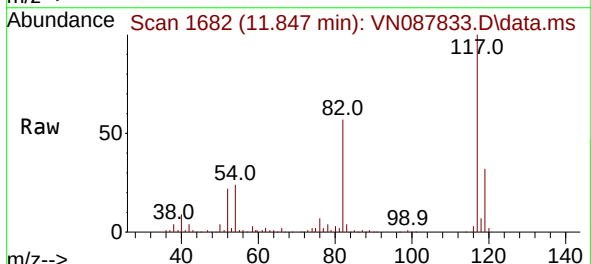
Instrument :
MSVOA_N
ClientSampleId :
291376

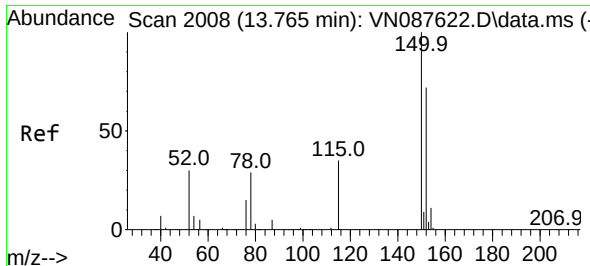
Tgt Ion: 95 Resp: 180259
Ion Ratio Lower Upper
95 100
174 75.7 0.0 138.4
176 69.3 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VN087833.D
Acq: 15 Sep 2025 13:38

Tgt Ion:117 Resp: 406404
Ion Ratio Lower Upper
117 100
82 57.0 47.4 71.2
119 32.2 24.3 36.5

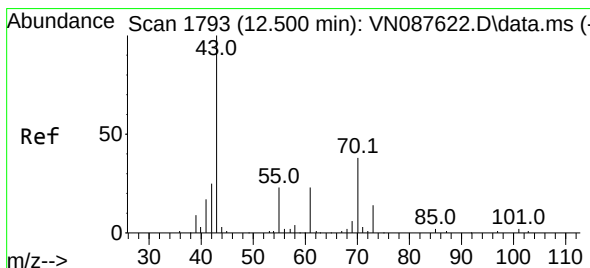
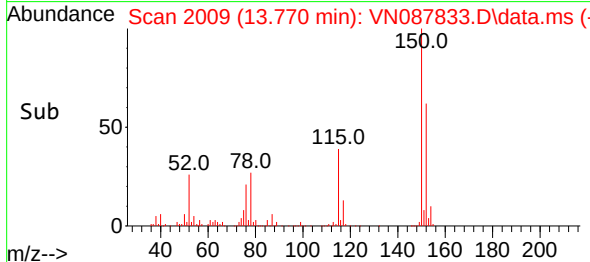
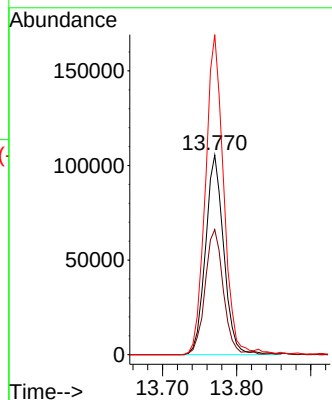
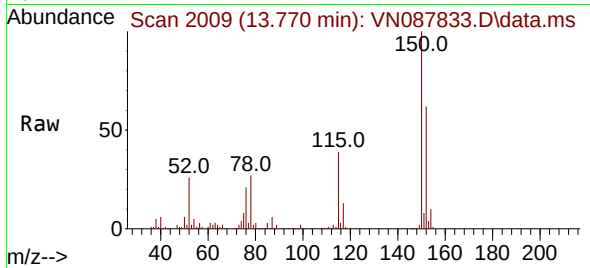




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 20
Delta R.T. 0.006 min
Lab File: VN087833.D
Acq: 15 Sep 2025 13:38

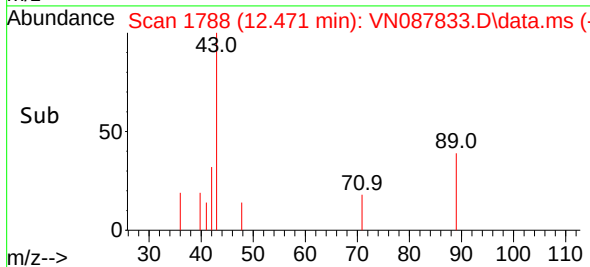
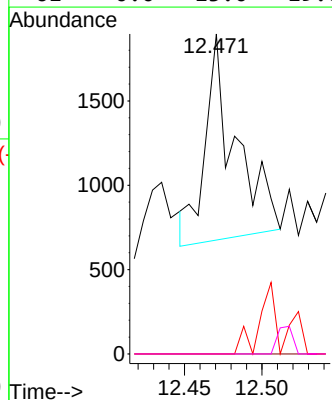
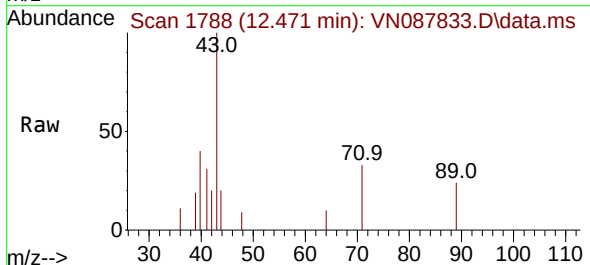
Instrument :
MSVOA_N
ClientSampleId :
291376

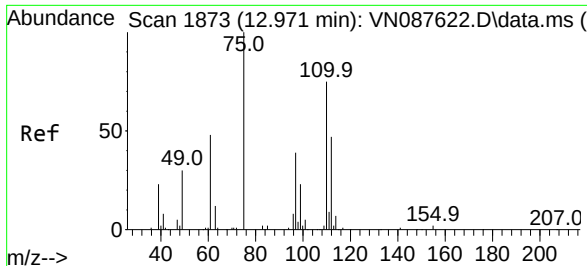
Tgt Ion:152 Resp: 181401
Ion Ratio Lower Upper
152 100
115 62.9 32.3 96.8
150 159.9 0.0 351.0



#74
N-ethyl acetate
Concen: 0.298 ug/l
RT: 12.471 min Scan# 1788
Delta R.T. -0.029 min
Lab File: VN087833.D
Acq: 15 Sep 2025 13:38

Tgt Ion: 43 Resp: 1655
Ion Ratio Lower Upper
43 100
70 0.0 27.6 41.4#
55 0.0 13.0 19.6#
61 0.0 13.0 19.6#

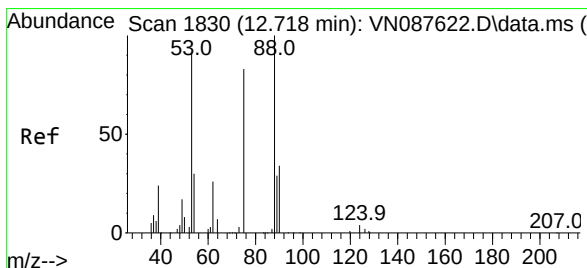
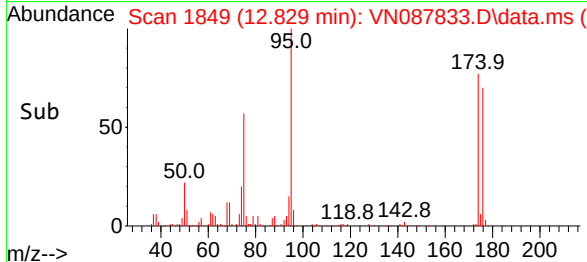
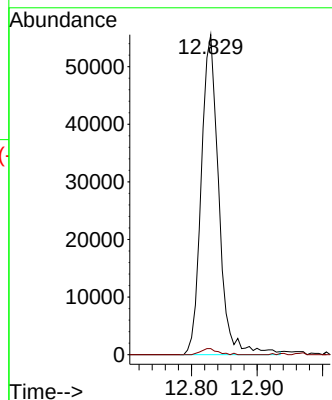
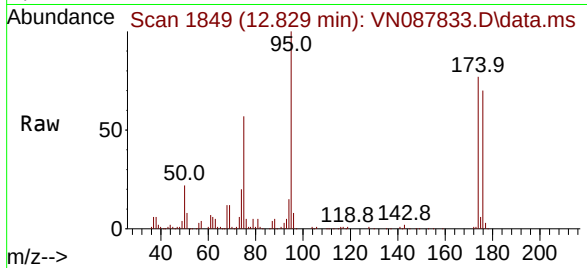




#76
1,2,3-Trichloropropane
Concen: 24.372 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN087833.D
Acq: 15 Sep 2025 13:38

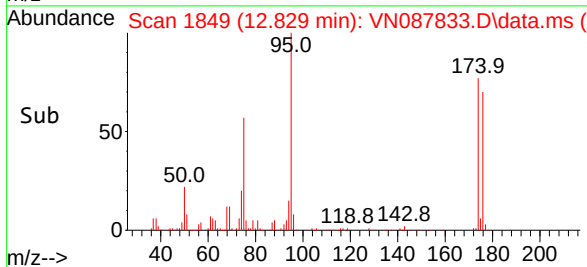
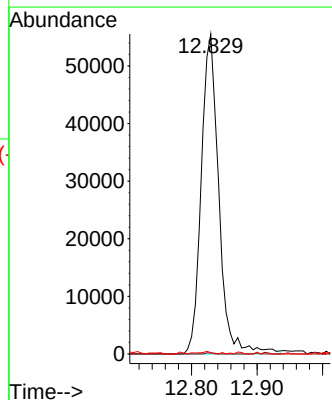
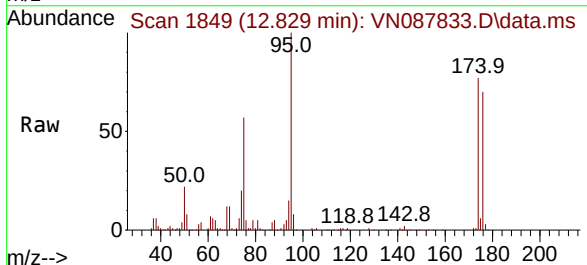
Instrument :
MSVOA_N
ClientSampleId :
291376

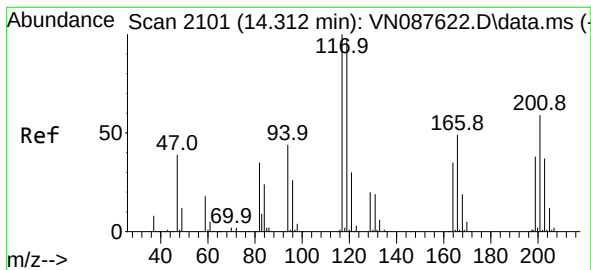
Tgt Ion: 75 Resp: 103678
Ion Ratio Lower Upper
75 100
77 1.8 89.1 267.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 64.523 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087833.D
Acq: 15 Sep 2025 13:38

Tgt Ion: 75 Resp: 103678
Ion Ratio Lower Upper
75 100
53 0.2 101.8 152.6#
89 0.5 35.6 53.4#





#90

Hexachloroethane

Concen: 0.212 ug/l

RT: 14.406 min Scan# 21

Delta R.T. 0.094 min

Lab File: VN087833.D

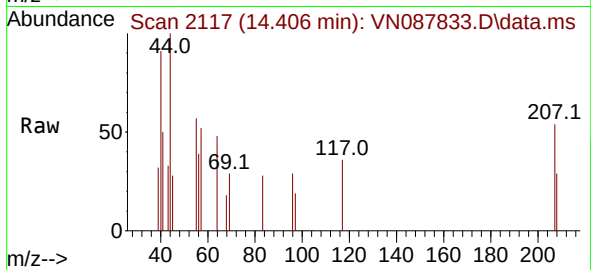
Acq: 15 Sep 2025 13:38

Instrument :

MSVOA_N

ClientSampleId :

291376



Tgt Ion:117 Resp: 512

Ion Ratio Lower Upper

117 100

201 0.0 29.1 87.4#

