

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051525\
 Data File : VN086657.D
 Acq On : 15 May 2025 20:01
 Operator : JC\MD
 Sample : Q2020-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-A

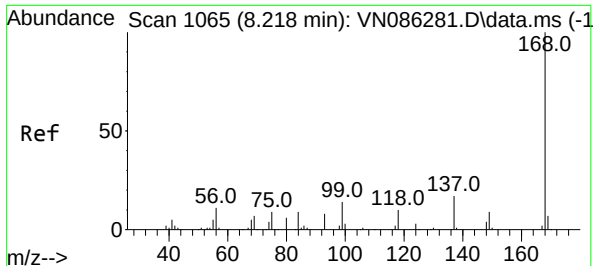
Quant Time: May 16 05:34:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	215929	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	409548	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	396847	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	166317	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	134202	42.860	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	85.720%
35) Dibromofluoromethane	8.165	113	111862	58.851	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	117.700%
50) Toluene-d8	10.565	98	473187	46.580	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	93.160%
62) 4-Bromofluorobenzene	12.847	95	171188	46.201	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	92.400%
Target Compounds						
					Qvalue	
13) Acrolein	4.189	56	359	Below Cal	#	78
16) Acetone	4.424	43	48143	39.670	ug/l	100
18) Methyl Acetate	5.018	43	5456	1.452	ug/l #	68
20) Methylene Chloride	5.271	84	8970	3.099	ug/l	96
25) 2-Butanone	7.483	43	6561	3.366	ug/l	94
29) Tetrahydrofuran	7.830	42	321	0.246	ug/l #	32
31) Cyclohexane	8.218	56	4294	0.846	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	17805	4.690	ug/l #	48
37) Ethyl Acetate	7.483	43	6561	1.642	ug/l #	68
38) Carbon Tetrachloride	8.224	117	21664	5.992	ug/l #	15
43) Isopropyl Acetate	8.683	43	50179	5.224	ug/l #	74
45) 1,2-Dichloropropane	9.735	63	981	0.329	ug/l #	43
48) Methyl methacrylate	9.741	41	71613	20.403	ug/l #	41
51) 4-Methyl-2-Pentanone	10.441	43	3412	0.834	ug/l	93
54) cis-1,3-Dichloropropene	10.353	75	35296	7.026	ug/l #	57
57) 1,3-Dichloropropane	11.200	76	3282	0.677	ug/l #	43
59) 2-Hexanone	11.200	43	55362	18.236	ug/l #	43
74) N-amyl acetate	12.453	43	2848	0.420	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	85322	21.739	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	85322	52.209	ug/l #	10

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

Quant Time: May 16 05:34:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

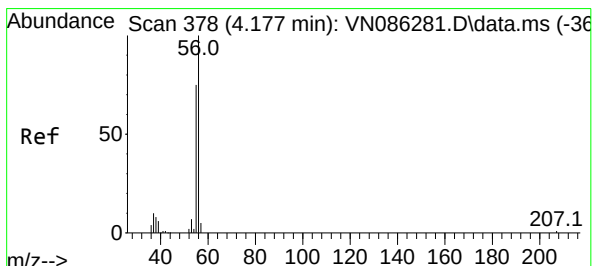
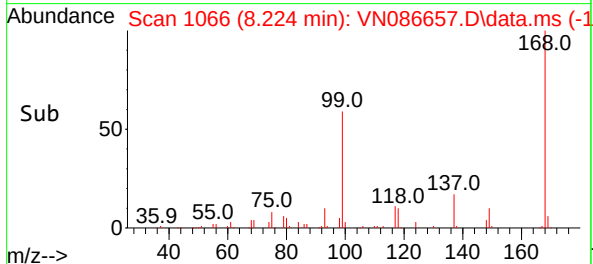
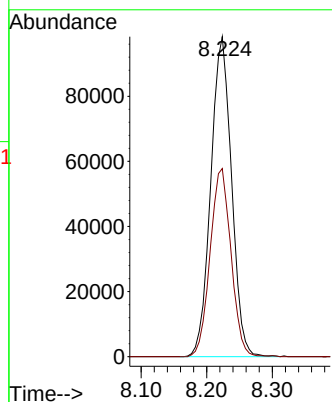
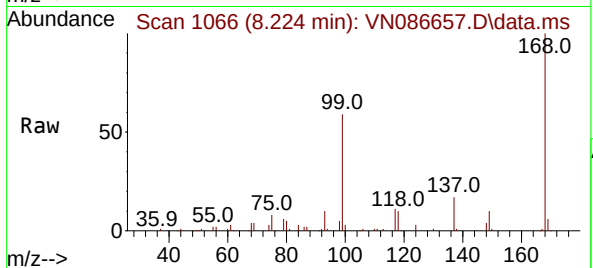




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN086657.D
Acq: 15 May 2025 20:01

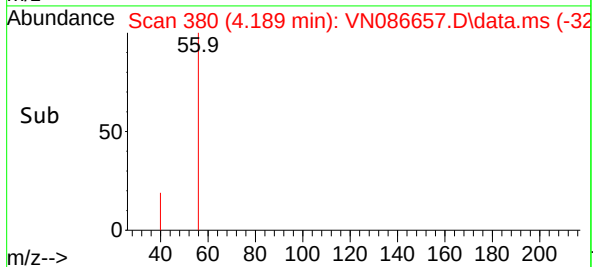
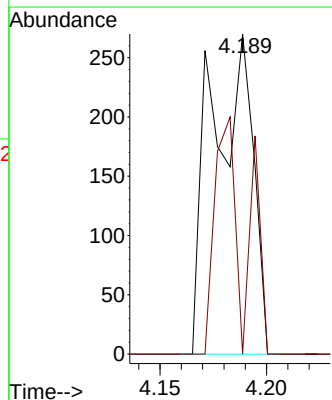
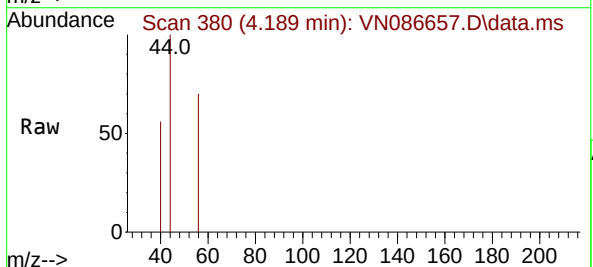
Instrument :
MSVOA_N
ClientSampleId :
TP-A

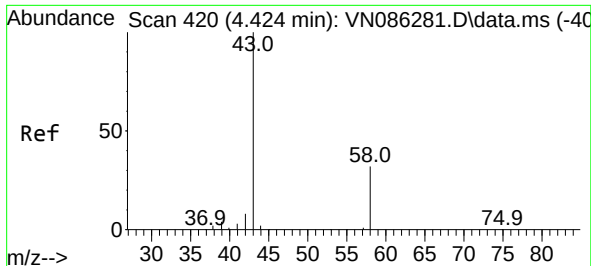
Tgt Ion:168 Resp: 215929
Ion Ratio Lower Upper
168 100
99 58.8 52.5 78.7



#13
Acrolein
Concen: Below Cal
RT: 4.189 min Scan# 380
Delta R.T. 0.012 min
Lab File: VN086657.D
Acq: 15 May 2025 20:01

Tgt Ion: 56 Resp: 359
Ion Ratio Lower Upper
56 100
55 54.6 58.5 87.7#

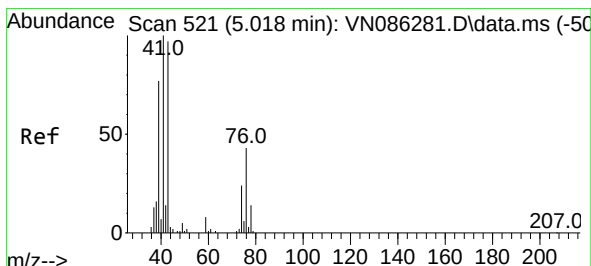
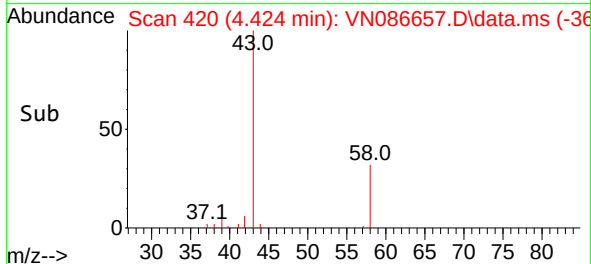
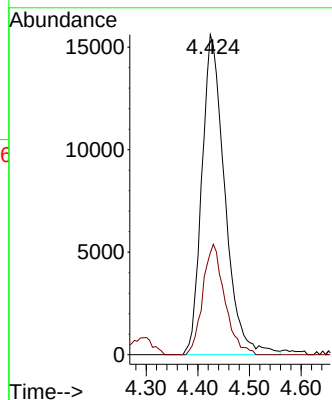
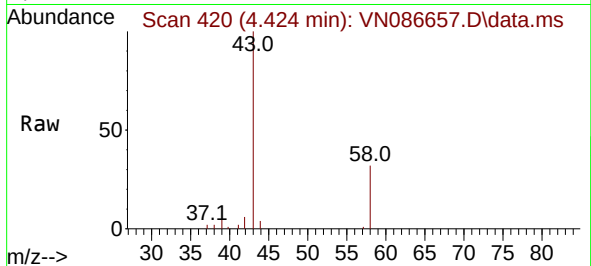




#16
Acetone
Concen: 39.670 ug/l
RT: 4.424 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN086657.D
Acq: 15 May 2025 20:01

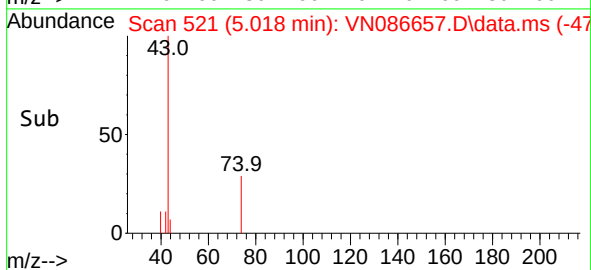
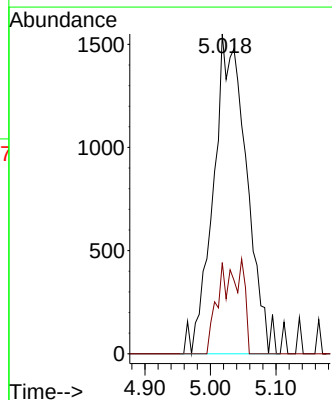
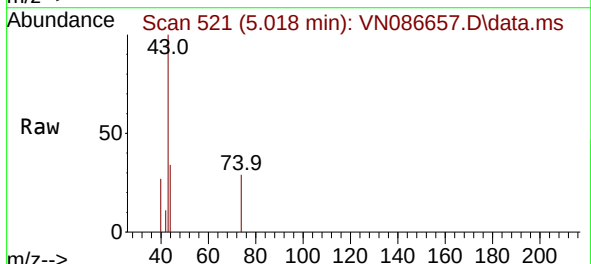
Instrument :
MSVOA_N
ClientSampleId :
TP-A

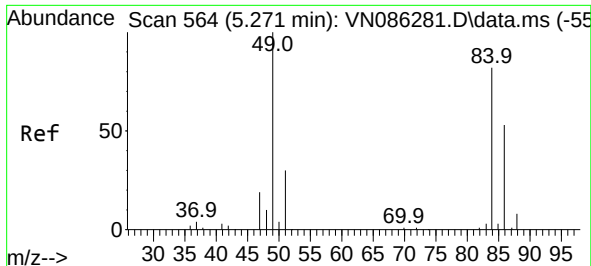
Tgt Ion: 43 Resp: 48143
Ion Ratio Lower Upper
43 100
58 31.8 25.3 37.9



#18
Methyl Acetate
Concen: 1.452 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN086657.D
Acq: 15 May 2025 20:01

Tgt Ion: 43 Resp: 5456
Ion Ratio Lower Upper
43 100
74 8.6 19.8 29.6#

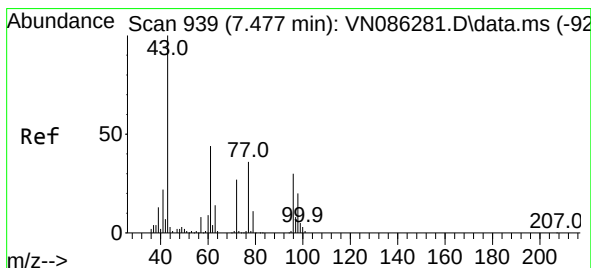
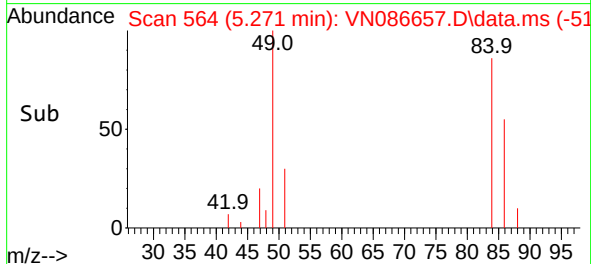
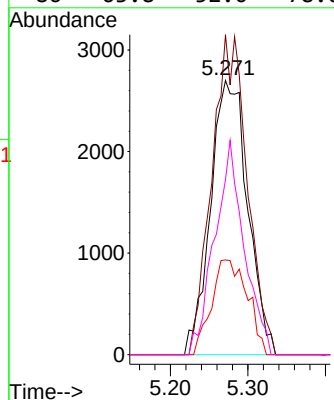
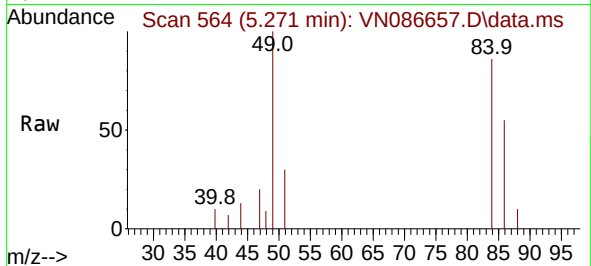




#20
Methylene Chloride
Concen: 3.099 ug/l
RT: 5.271 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN086657.D
Acq: 15 May 2025 20:01

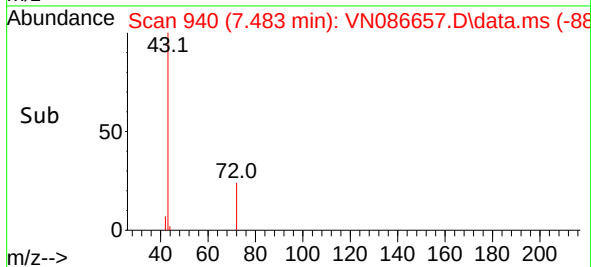
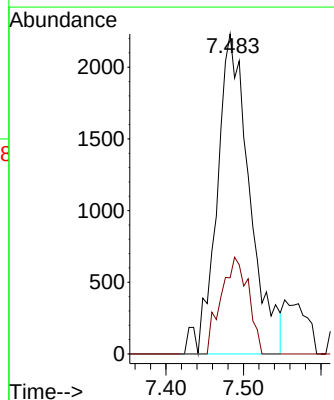
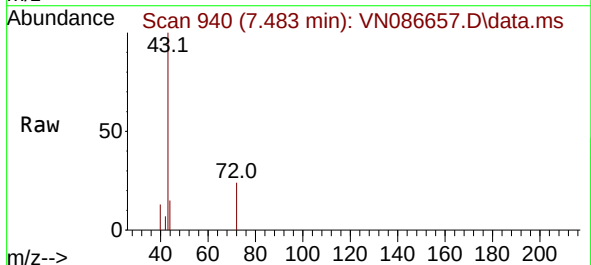
Instrument :
MSVOA_N
ClientSampleId :
TP-A

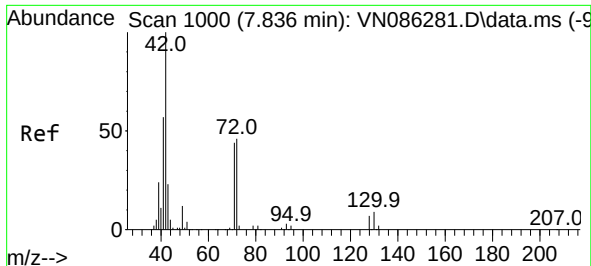
Tgt Ion: 84	Resp:	8970	
Ion	Ratio	Lower	Upper
84	100		
49	116.7	98.2	147.2
51	34.5	29.8	44.6
86	63.8	52.0	78.0



#25
2-Butanone
Concen: 3.366 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN086657.D
Acq: 15 May 2025 20:01

Tgt Ion: 43	Resp:	6561	
Ion	Ratio	Lower	Upper
43	100		
72	23.8	21.7	32.5





#29

Tetrahydrofuran

Concen: 0.246 ug/l

RT: 7.830 min Scan# 99

Delta R.T. -0.006 min

Lab File: VN086657.D

Acq: 15 May 2025 20:01

Instrument :

MSVOA_N

ClientSampleId :

TP-A

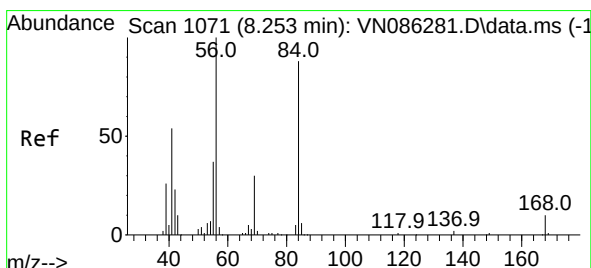
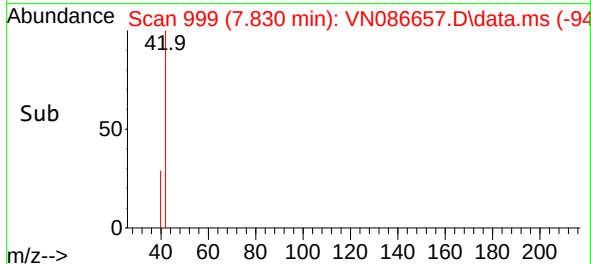
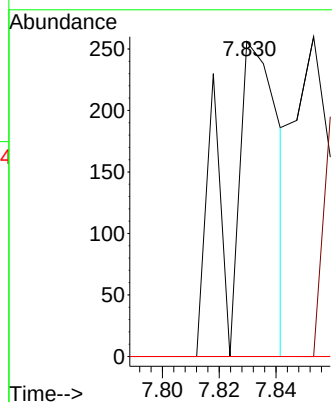
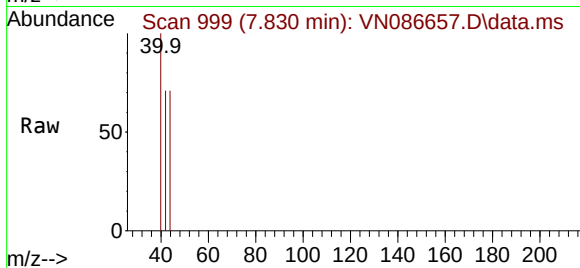
Tgt Ion: 42 Resp: 321

Ion Ratio Lower Upper

42 100

72 0.0 36.2 54.4#

71 0.0 34.0 51.0#



#31

Cyclohexane

Concen: 0.846 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.035 min

Lab File: VN086657.D

Acq: 15 May 2025 20:01

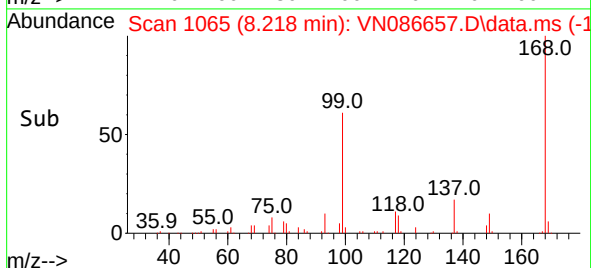
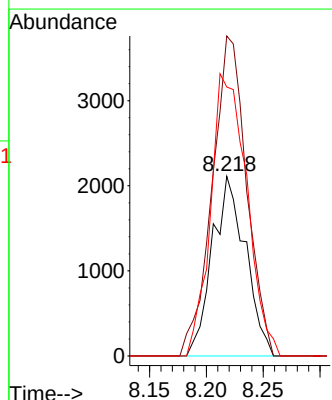
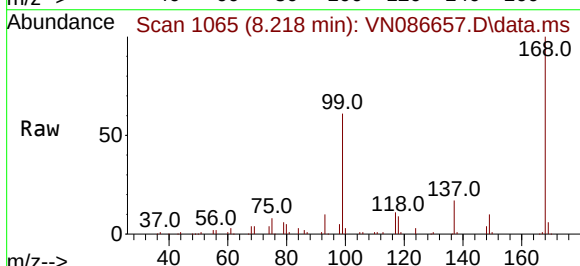
Tgt Ion: 56 Resp: 4294

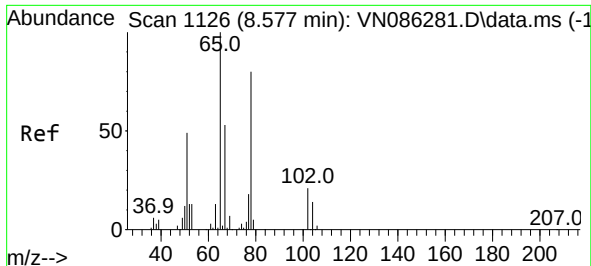
Ion Ratio Lower Upper

56 100

69 178.1 24.2 36.2#

84 149.7 70.3 105.5#





#33

1,2-Dichloroethane-d4

Concen: 42.860 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN086657.D

Acq: 15 May 2025 20:01

Instrument :

MSVOA_N

ClientSampleId :

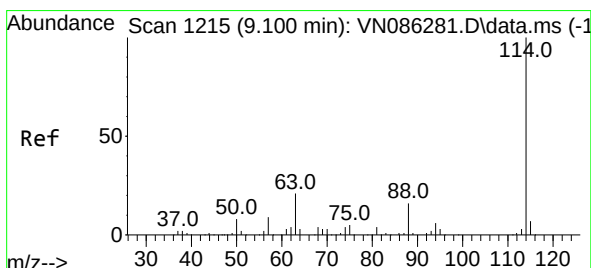
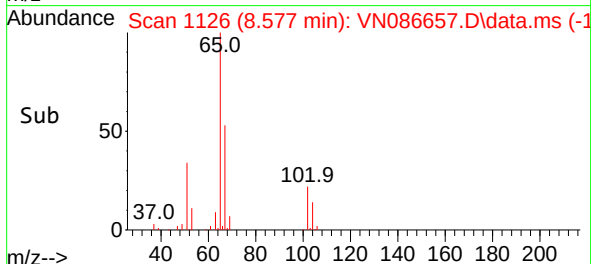
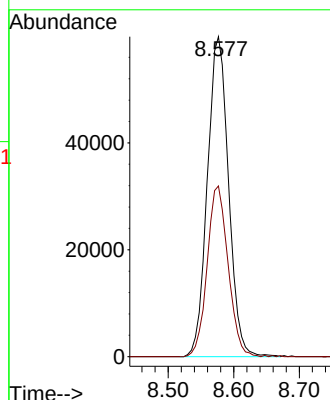
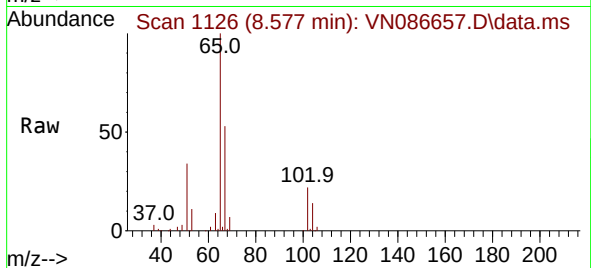
TP-A

Tgt Ion: 65 Resp: 134202

Ion Ratio Lower Upper

65 100

67 52.7 0.0 106.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN086657.D

Acq: 15 May 2025 20:01

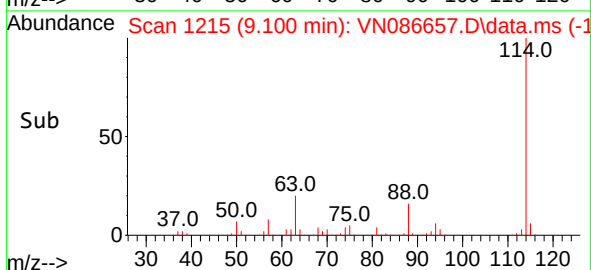
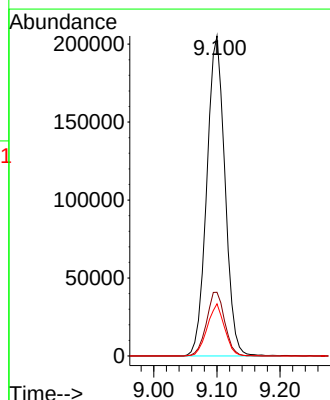
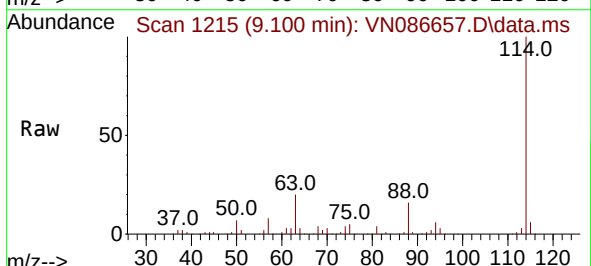
Tgt Ion: 114 Resp: 409548

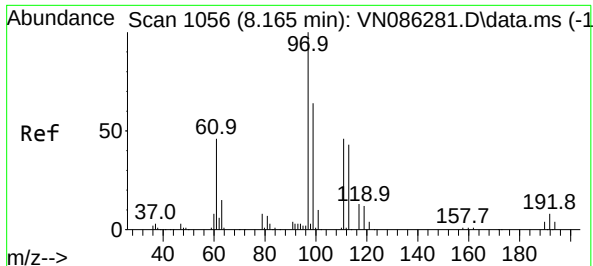
Ion Ratio Lower Upper

114 100

63 19.9 0.0 42.6

88 16.3 0.0 31.8

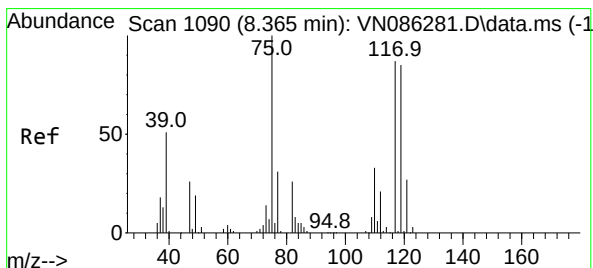
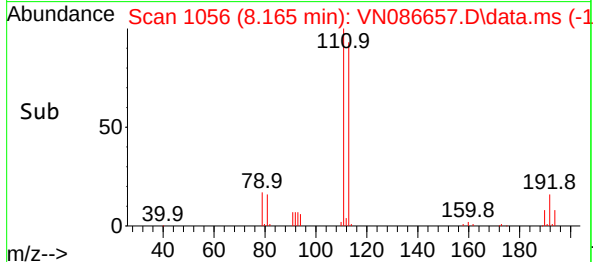
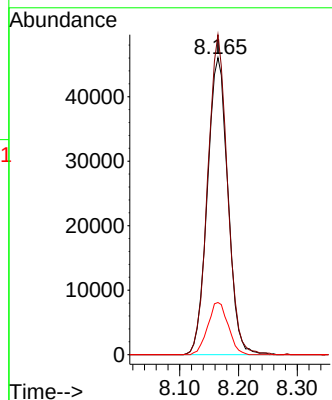
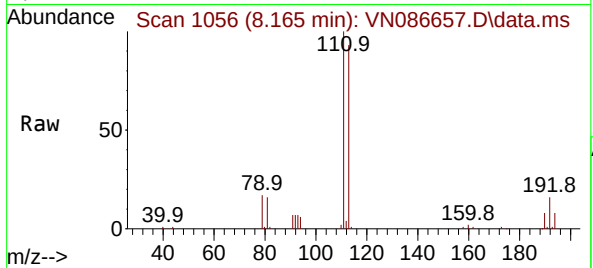




#35
Dibromofluoromethane
Concen: 58.851 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN086657.D
Acq: 15 May 2025 20:01

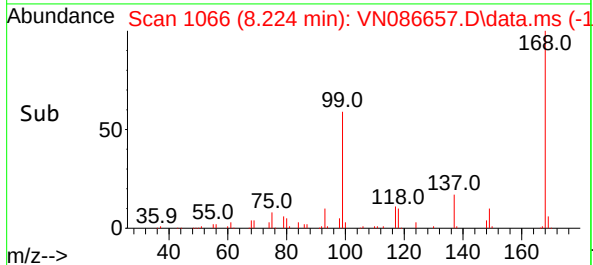
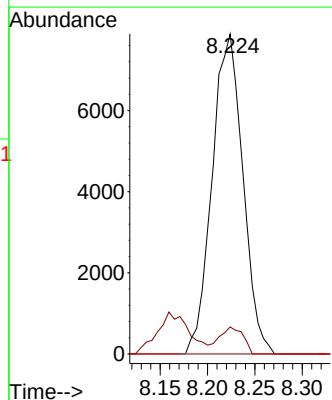
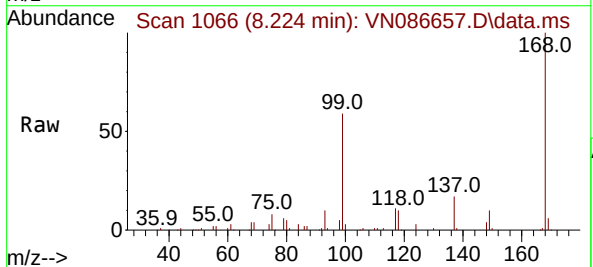
Instrument :
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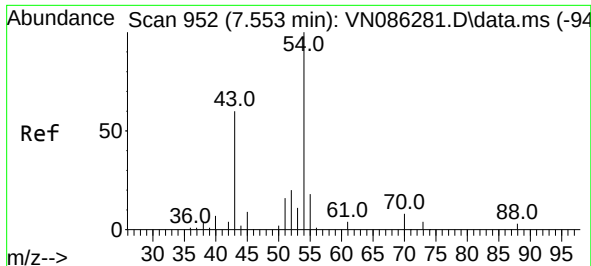
Tgt Ion:113 Resp: 111862
Ion Ratio Lower Upper
113 100
111 103.5 83.4 125.0
192 17.5 13.7 20.5



#36
1,1-Dichloropropene
Concen: 4.690 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.141 min
Lab File: VN086657.D
Acq: 15 May 2025 20:01

Tgt Ion: 75 Resp: 17805
Ion Ratio Lower Upper
75 100
110 6.6 16.8 50.4#
77 0.0 24.9 37.3#





#37

Ethyl Acetate

Concen: 1.642 ug/l

RT: 7.483 min Scan# 94

Delta R.T. -0.071 min

Lab File: VN086657.D

Acq: 15 May 2025 20:01

Instrument :

MSVOA_N

ClientSampleId :

TP-A

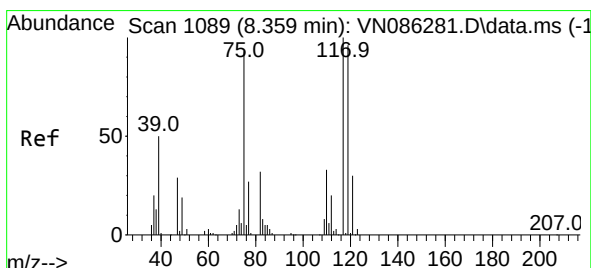
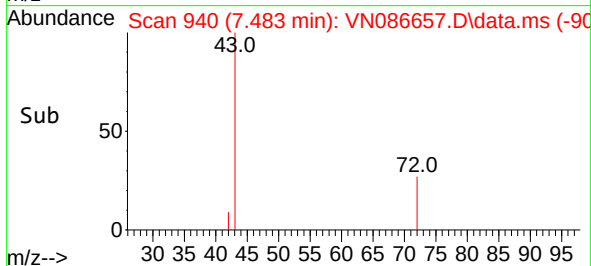
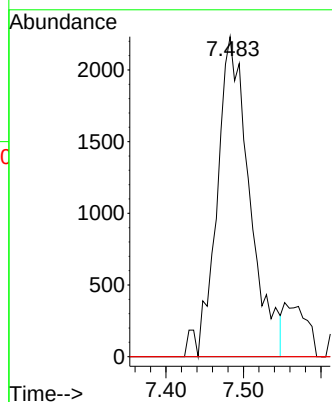
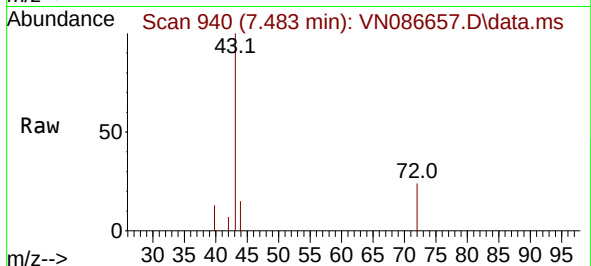
Tgt Ion: 43 Resp: 6561

Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

70 0.0 9.2 13.8#



#38

Carbon Tetrachloride

Concen: 5.992 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN086657.D

Acq: 15 May 2025 20:01

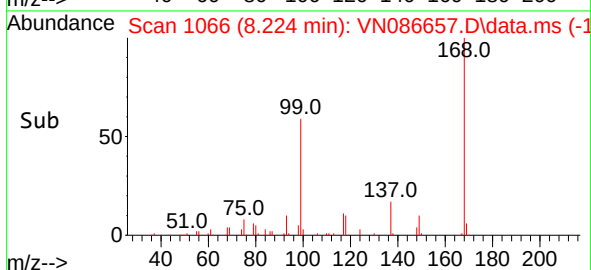
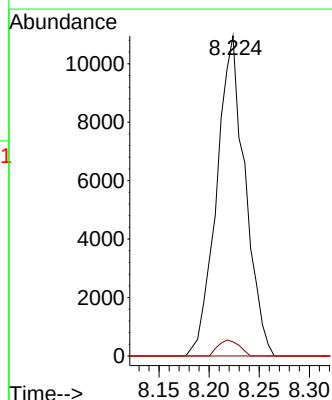
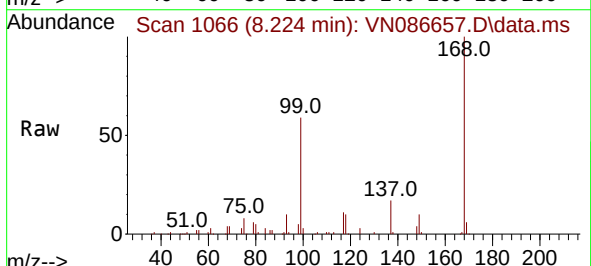
Tgt Ion: 117 Resp: 21664

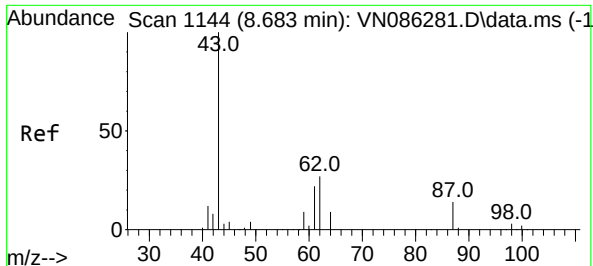
Ion Ratio Lower Upper

117 100

119 4.4 76.8 115.2#

121 0.0 23.8 35.8#

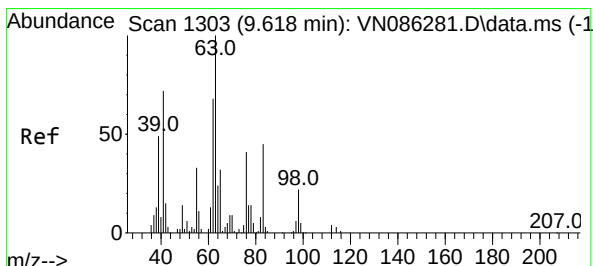
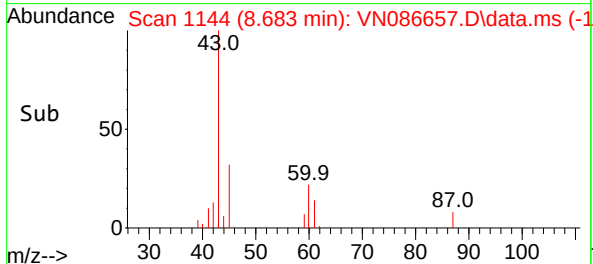
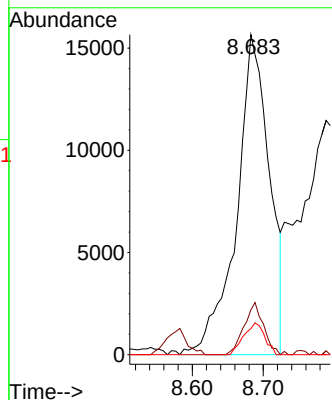
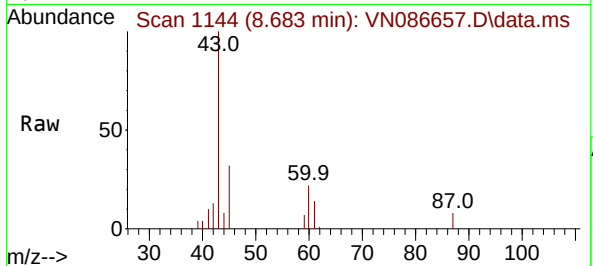




#43
Isopropyl Acetate
Concen: 5.224 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086657.D
Acq: 15 May 2025 20:01

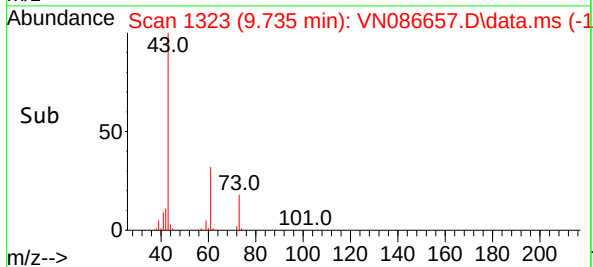
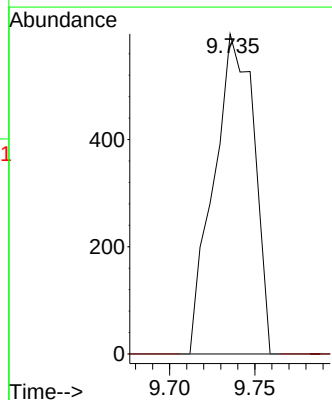
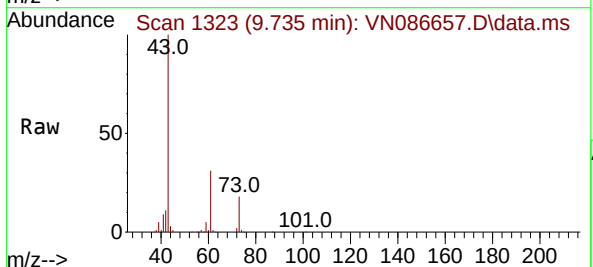
Instrument :
MSVOA_N
ClientSampleId :
TP-A

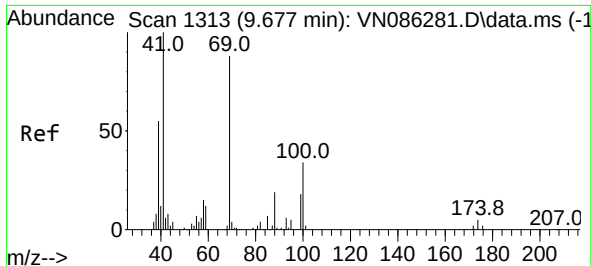
Tgt Ion: 43 Resp: 50179
Ion Ratio Lower Upper
43 100
61 9.8 20.5 30.7#
87 6.3 10.5 15.7#



#45
1,2-Dichloropropane
Concen: 0.329 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.118 min
Lab File: VN086657.D
Acq: 15 May 2025 20:01

Tgt Ion: 63 Resp: 981
Ion Ratio Lower Upper
63 100
65 0.0 25.4 38.2#

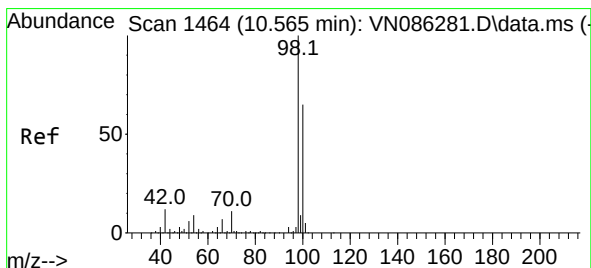
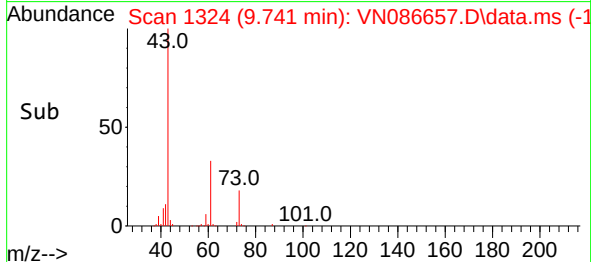
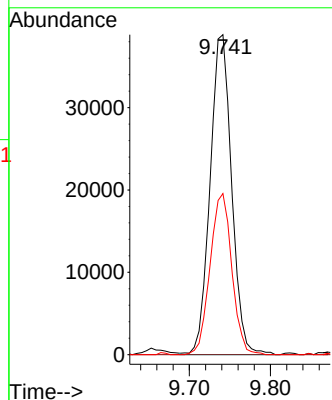
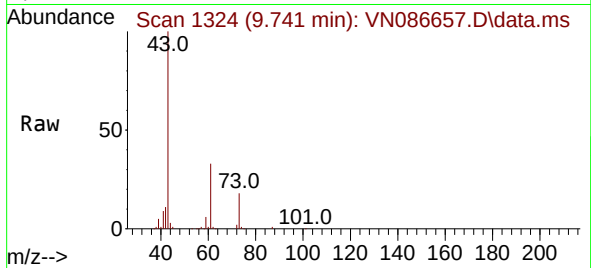




#48
Methyl methacrylate
Concen: 20.403 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.065 min
Lab File: VN086657.D
Acq: 15 May 2025 20:01

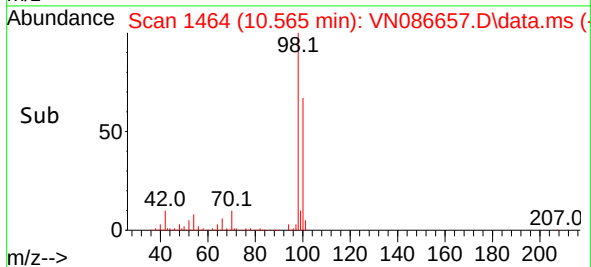
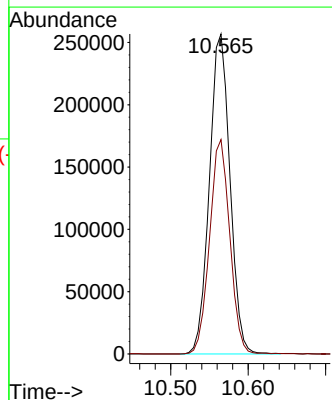
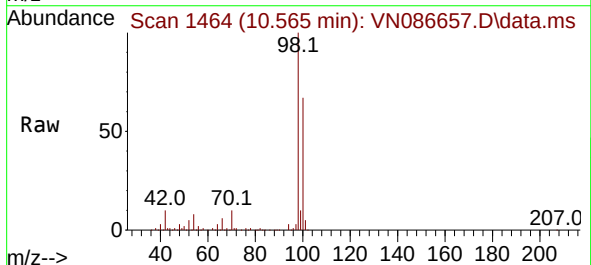
Instrument :
MSVOA_N
ClientSampleId :
TP-A

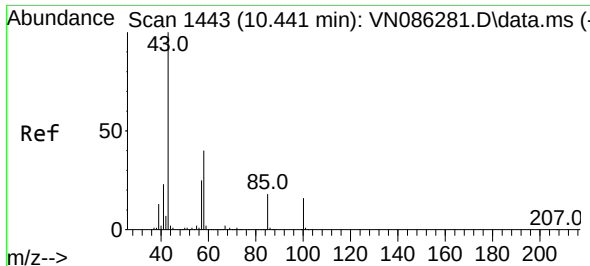
Tgt Ion: 41 Resp: 71613
Ion Ratio Lower Upper
41 100
69 0.0 68.2 102.2#
39 50.8 45.2 67.8



#50
Toluene-d8
Concen: 46.580 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086657.D
Acq: 15 May 2025 20:01

Tgt Ion: 98 Resp: 473187
Ion Ratio Lower Upper
98 100
100 66.0 52.5 78.7





#51

4-Methyl-2-Pentanone

Concen: 0.834 ug/l

RT: 10.441 min Scan# 1443

Delta R.T. 0.000 min

Lab File: VN086657.D

Acq: 15 May 2025 20:01

Instrument :

MSVOA_N

ClientSampleId :

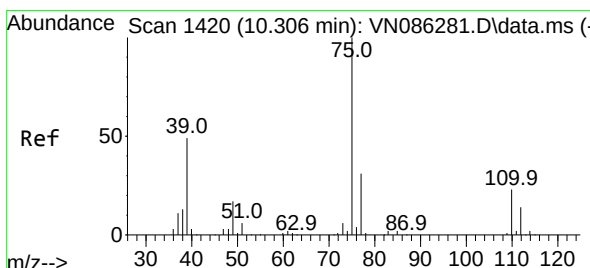
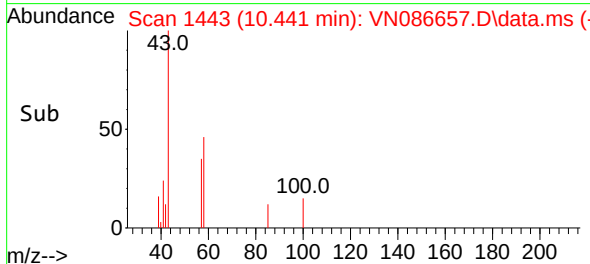
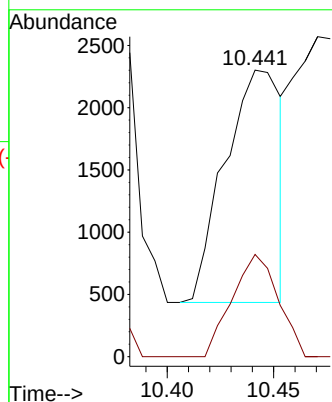
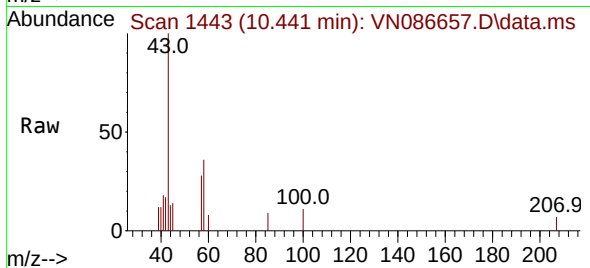
TP-A

Tgt Ion: 43 Resp: 3412

Ion Ratio Lower Upper

43 100

58 36.2 32.2 48.4



#54

cis-1,3-Dichloropropene

Concen: 7.026 ug/l

RT: 10.353 min Scan# 1428

Delta R.T. 0.047 min

Lab File: VN086657.D

Acq: 15 May 2025 20:01

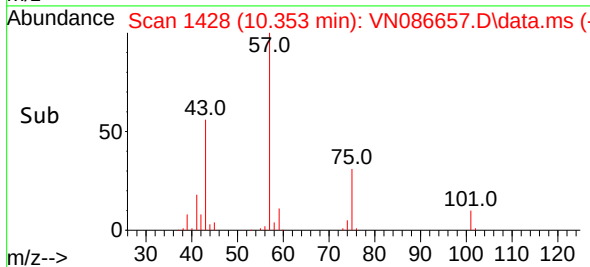
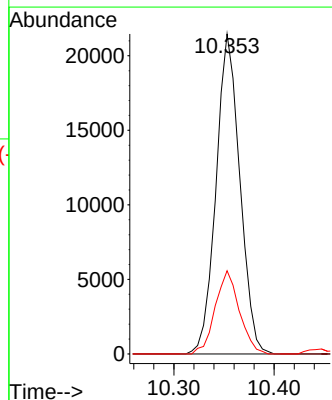
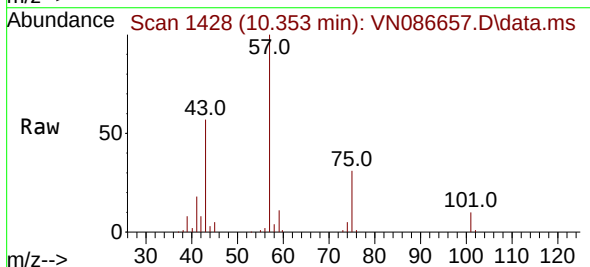
Tgt Ion: 75 Resp: 35296

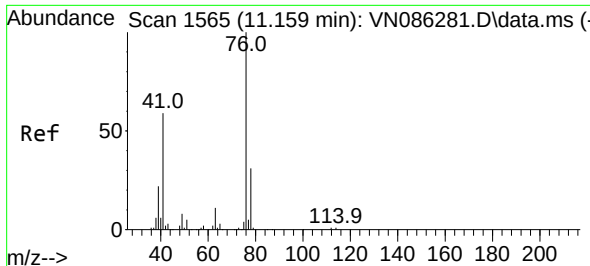
Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#

39 26.0 39.3 58.9#





#57

1,3-Dichloropropane

Concen: 0.677 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN086657.D

Acq: 15 May 2025 20:01

Instrument :

MSVOA_N

ClientSampleId :

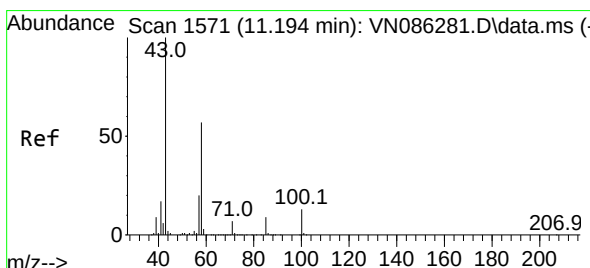
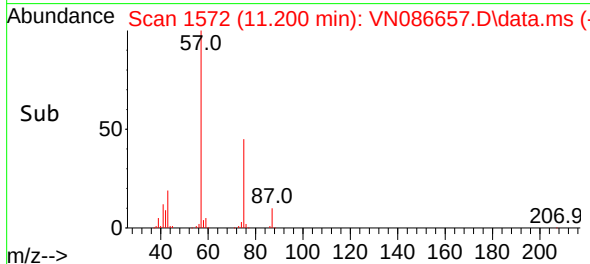
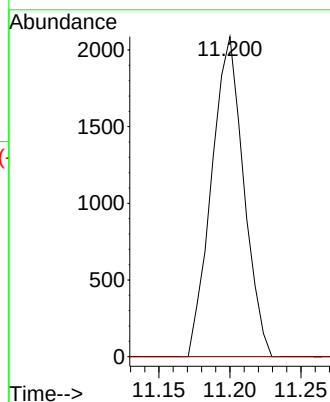
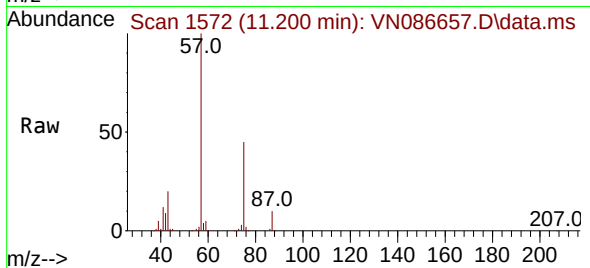
TP-A

Tgt Ion: 76 Resp: 3282

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 18.236 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086657.D

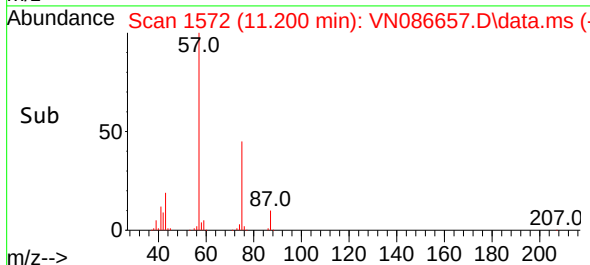
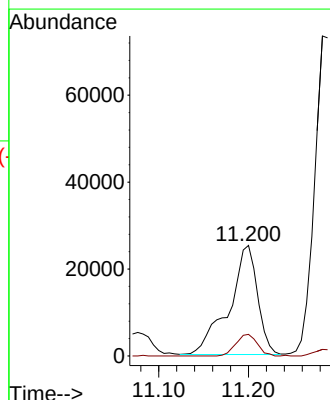
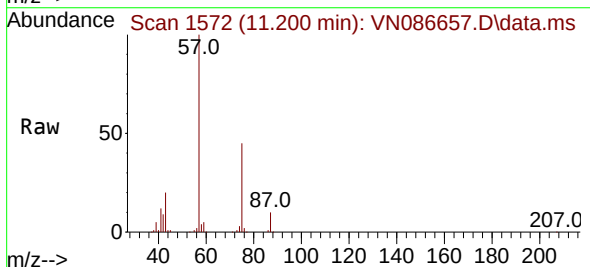
Acq: 15 May 2025 20:01

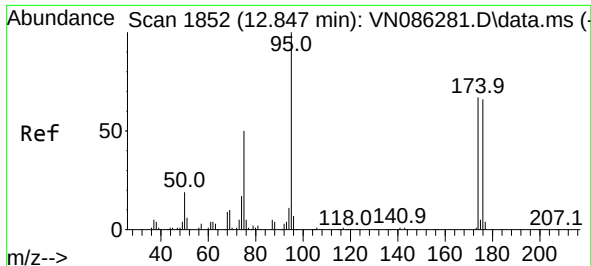
Tgt Ion: 43 Resp: 55362

Ion Ratio Lower Upper

43 100

58 14.9 28.3 85.0#

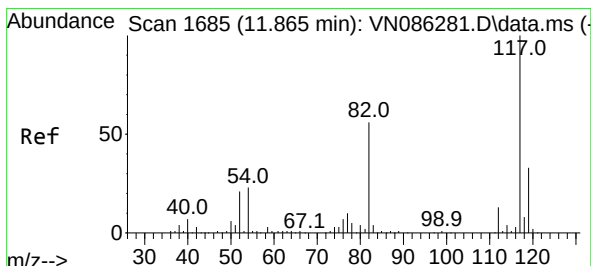
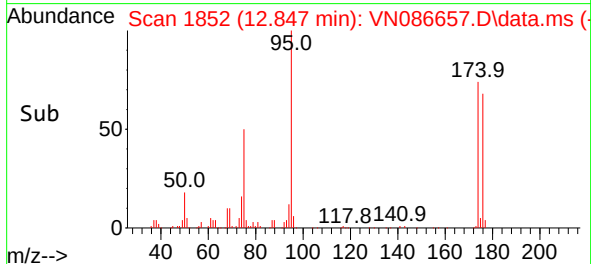
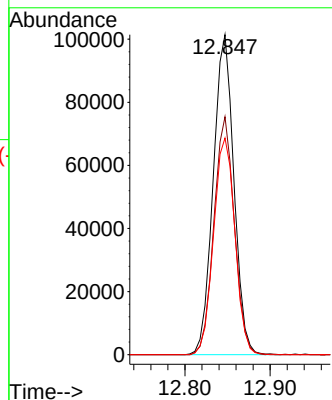
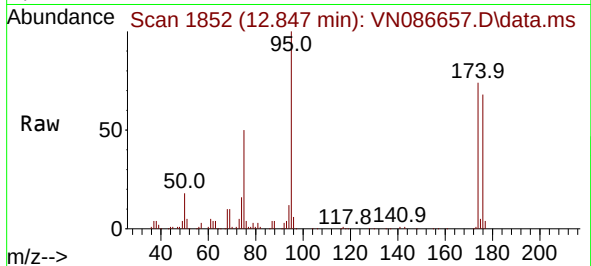




#62
4-Bromofluorobenzene
Concen: 46.201 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086657.D
Acq: 15 May 2025 20:01

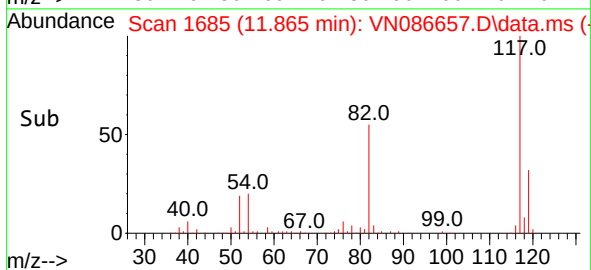
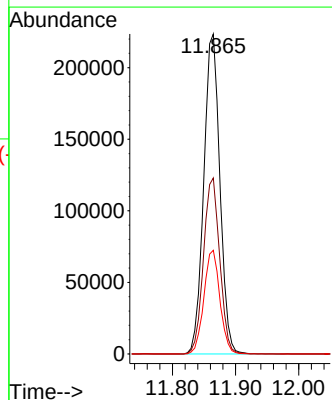
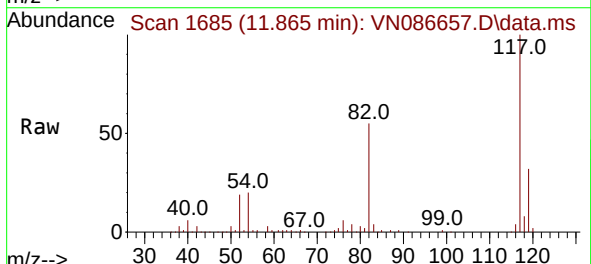
Instrument :
MSVOA_N
ClientSampleId :
TP-A

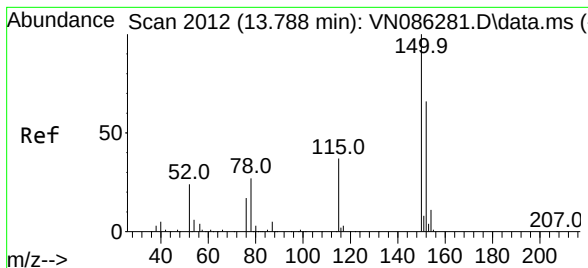
Tgt Ion: 95 Resp: 171188
Ion Ratio Lower Upper
95 100
174 73.6 0.0 133.4
176 69.7 0.0 129.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086657.D
Acq: 15 May 2025 20:01

Tgt Ion: 117 Resp: 396847
Ion Ratio Lower Upper
117 100
82 55.0 44.7 67.1
119 32.4 26.4 39.6

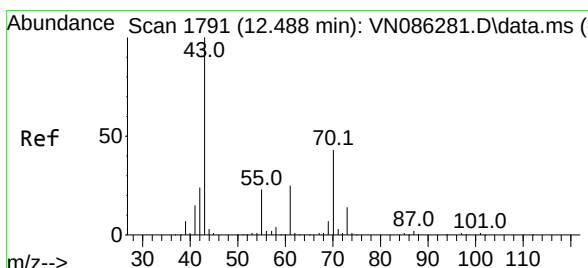
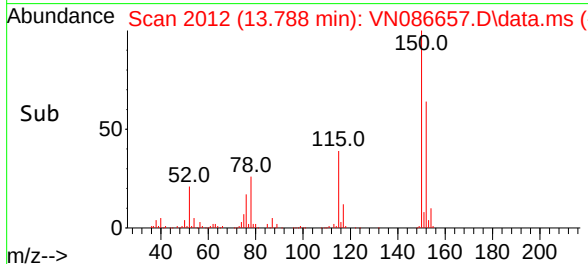
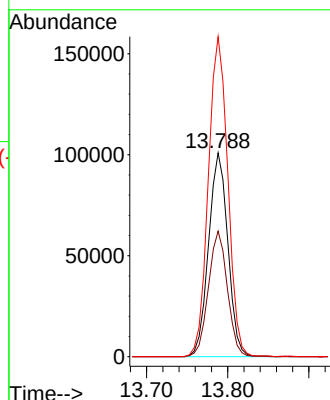
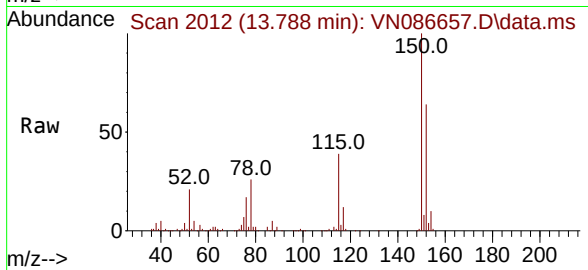




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN086657.D
Acq: 15 May 2025 20:01

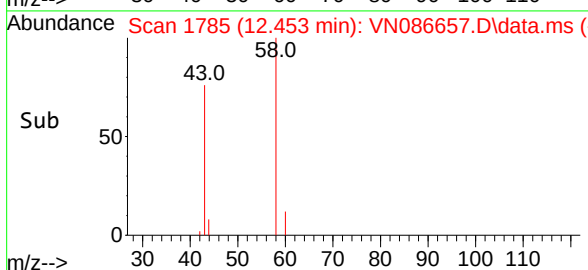
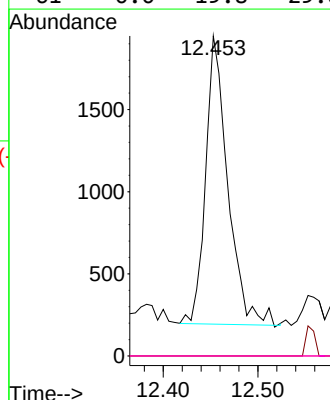
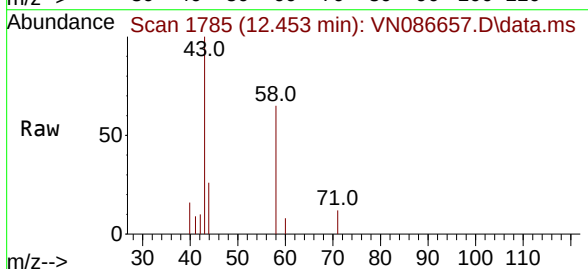
Instrument :
MSVOA_N
ClientSampleId :
TP-A

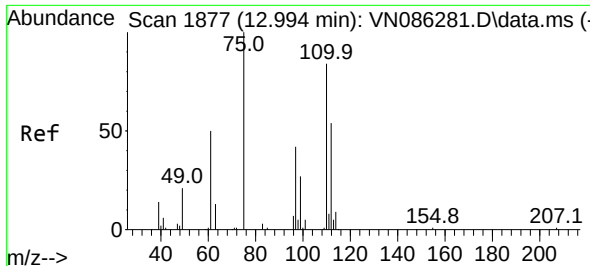
Tgt Ion:152 Resp: 166317
Ion Ratio Lower Upper
152 100
115 60.6 31.9 95.9
150 158.6 0.0 352.0



#74
N-ethyl acetate
Concen: 0.420 ug/l
RT: 12.453 min Scan# 1785
Delta R.T. -0.035 min
Lab File: VN086657.D
Acq: 15 May 2025 20:01

Tgt Ion: 43 Resp: 2848
Ion Ratio Lower Upper
43 100
70 0.0 35.0 52.4#
55 0.0 19.0 28.4#
61 0.0 19.8 29.8#

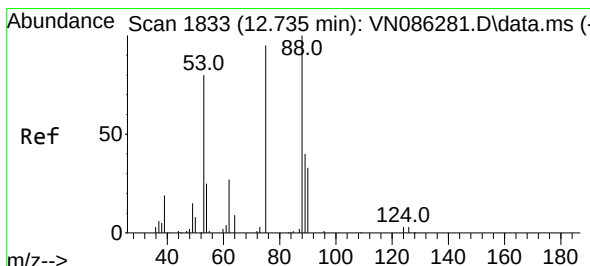
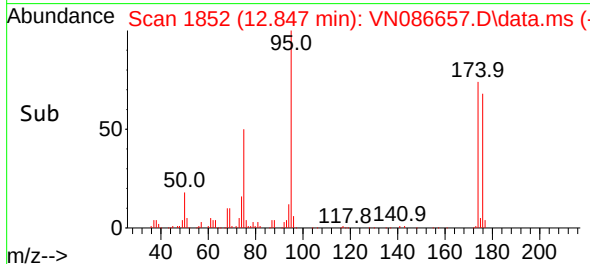
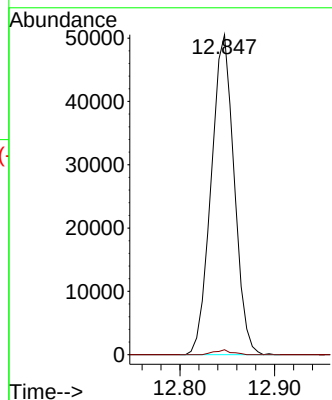
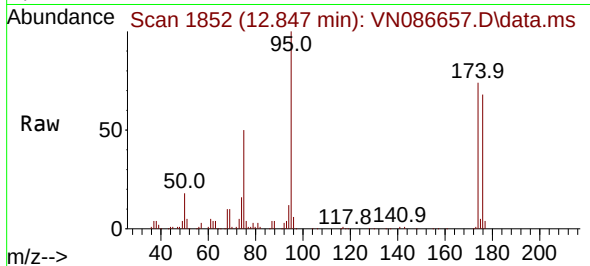




#76
1,2,3-Trichloropropane
Concen: 21.739 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086657.D
Acq: 15 May 2025 20:01

Instrument :
MSVOA_N
ClientSampleId :
TP-A

Tgt Ion: 75 Resp: 85322
Ion Ratio Lower Upper
75 100
77 1.1 98.8 296.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 52.209 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086657.D
Acq: 15 May 2025 20:01

Tgt Ion: 75 Resp: 85322
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#

