

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111825\
 Data File : VN088314.D
 Acq On : 18 Nov 2025 13:26
 Operator : JC\MD
 Sample : Q3660-01DL 4X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FRAC-TANK-M21012DL

Quant Time: Nov 19 03:34:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 03 01:16:06 2025
 Response via : Initial Calibration

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

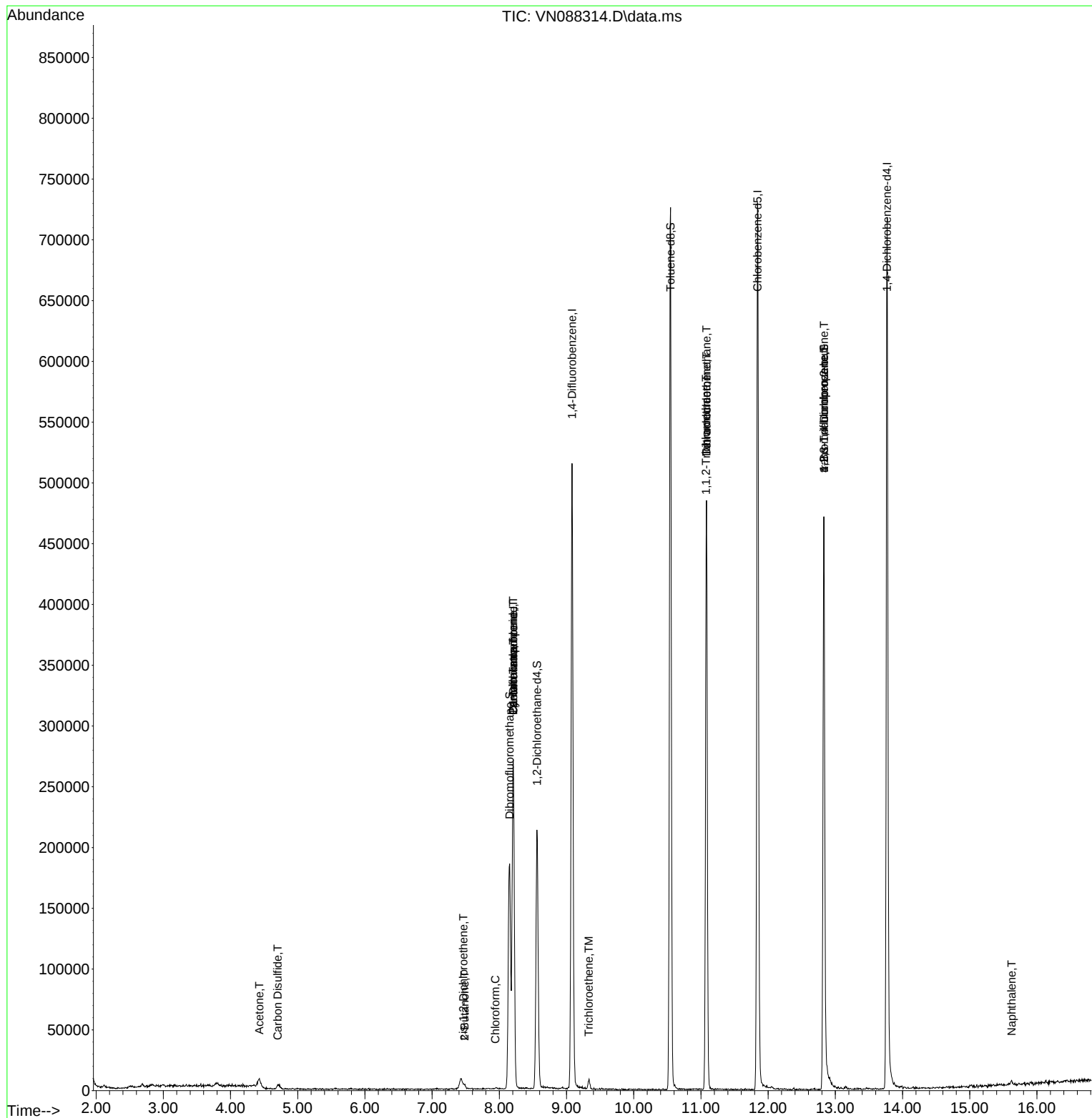
Internal Standards						
1) Pentafluorobenzene	8.206	168	181013	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	414617	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	408427	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	191561	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	175524	56.076	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 112.160%		
35) Dibromofluoromethane	8.153	113	137837	49.485	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 98.980%		
50) Toluene-d8	10.547	98	485916	45.274	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 90.540%		
62) 4-Bromofluorobenzene	12.829	95	166322	43.880	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 87.760%		
Target Compounds						
					Qvalue	
16) Acetone	4.430	43	14574	9.268	ug/l #	85
17) Carbon Disulfide	4.700	76	3710	0.536	ug/l #	89
25) 2-Butanone	7.483	43	1807	0.872	ug/l #	50
27) cis-1,2-Dichloroethene	7.465	96	1803	0.627	ug/l	81
30) Chloroform	7.941	83	1224	0.264	ug/l #	69
31) Cyclohexane	8.206	56	5791	1.322	ug/l #	20
36) 1,1-Dichloropropene	8.206	75	18963	4.663	ug/l #	51
38) Carbon Tetrachloride	8.206	117	21340	5.080	ug/l #	17
44) Trichloroethene	9.330	130	2993	1.034	ug/l	66
55) 1,1,2-Trichloroethane	11.077	97	1307	0.451	ug/l #	20
60) Dibromochloromethane	11.082	129	105459	32.025	ug/l #	10
64) Tetrachloroethene	11.082	164	102203	37.936	ug/l	97
76) 1,2,3-Trichloropropane	12.829	75	99911	22.812	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	99911	63.636	ug/l #	1
95) Naphthalene	15.623	128	4099	0.322	ug/l #	85

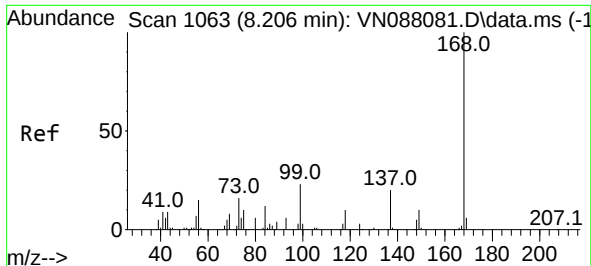
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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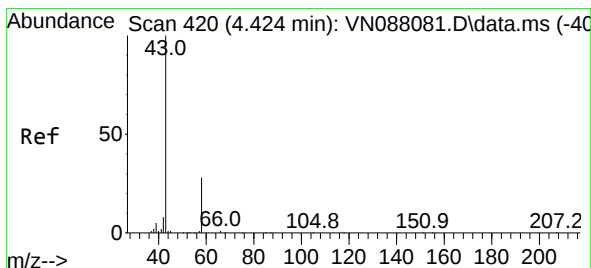
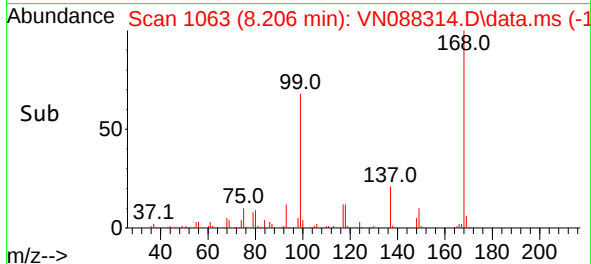
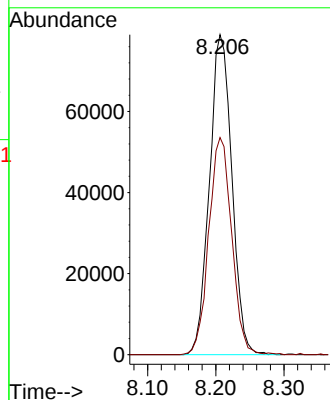
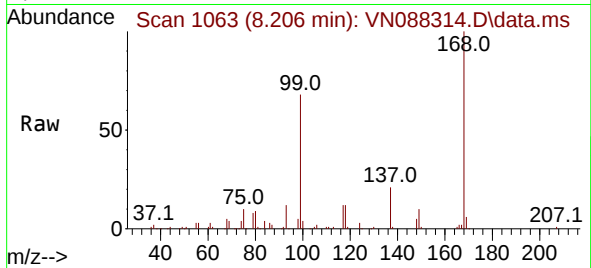




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088314.D
Acq: 18 Nov 2025 13:26

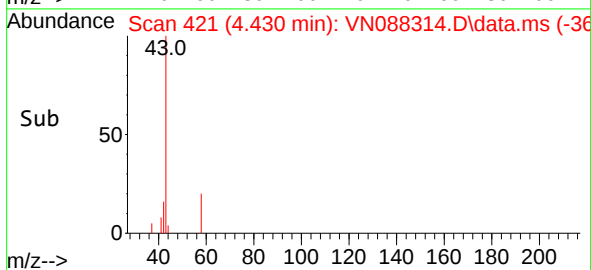
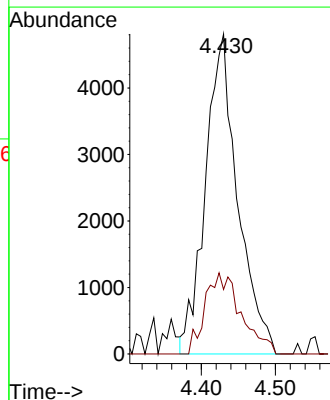
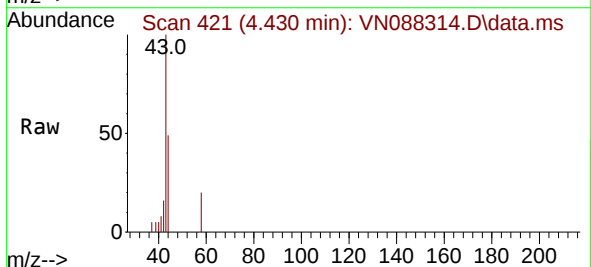
Instrument :
MSVOA_N
ClientSampleId :
FRAC-TANK-M21012DL

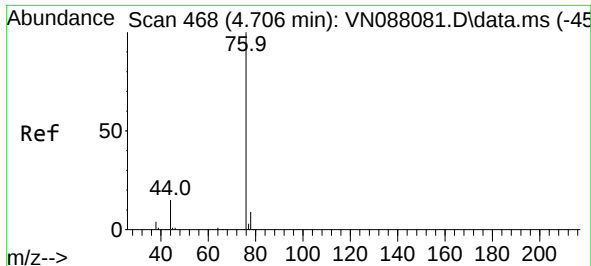
Tgt Ion:168 Resp: 181013
Ion Ratio Lower Upper
168 100
99 67.9 57.2 85.8



#16
Acetone
Concen: 9.268 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN088314.D
Acq: 18 Nov 2025 13:26

Tgt Ion: 43 Resp: 14574
Ion Ratio Lower Upper
43 100
58 20.2 22.6 33.8#

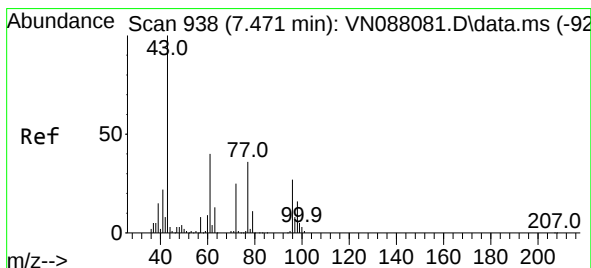
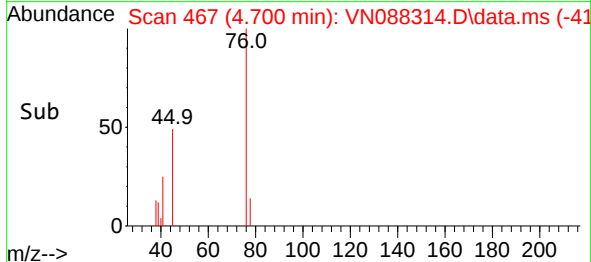
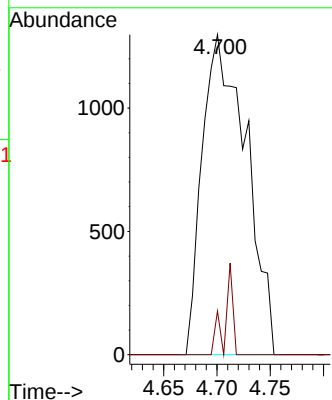
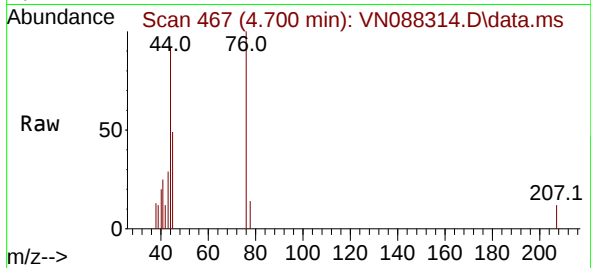




#17
Carbon Disulfide
Concen: 0.536 ug/l
RT: 4.700 min Scan# 410
Delta R.T. -0.000 min
Lab File: VN088314.D
Acq: 18 Nov 2025 13:26

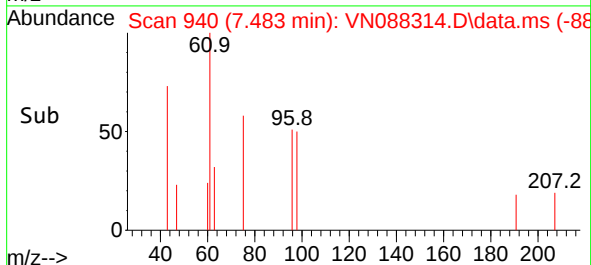
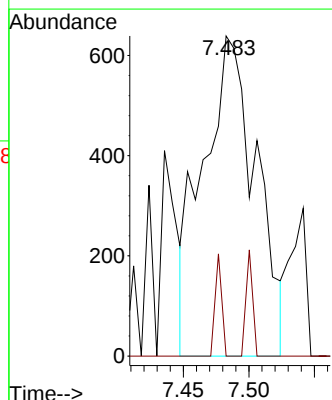
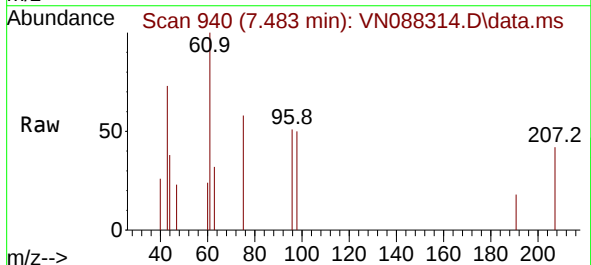
Instrument :
MSVOA_N
ClientSampleId :
FRAC-TANK-M21012DL

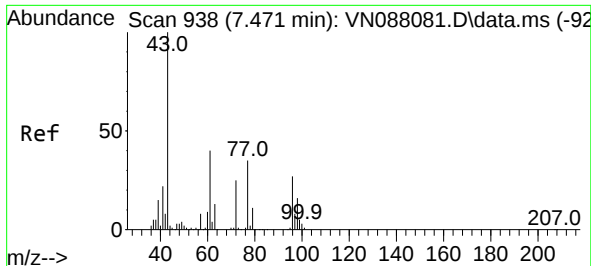
Tgt Ion: 76 Resp: 3710
Ion Ratio Lower Upper
76 100
78 13.6 7.6 11.4#



#25
2-Butanone
Concen: 0.872 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.018 min
Lab File: VN088314.D
Acq: 18 Nov 2025 13:26

Tgt Ion: 43 Resp: 1807
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#

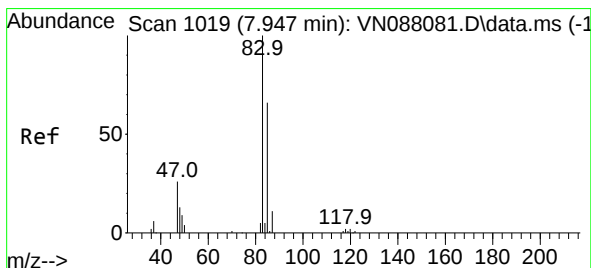
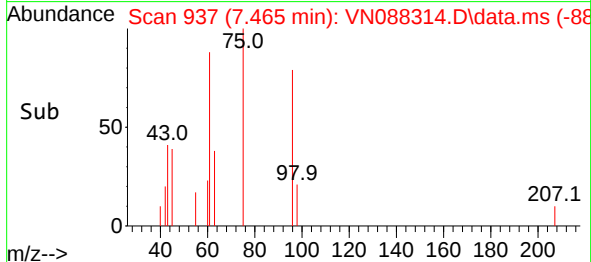
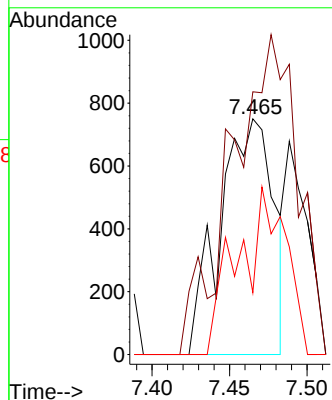
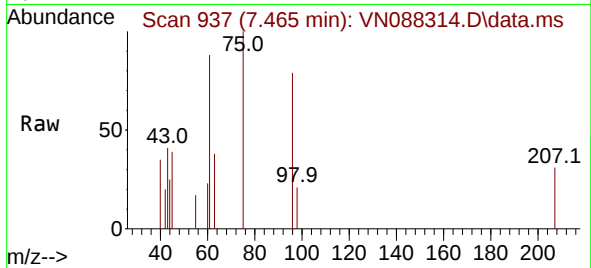




#27
 cis-1,2-Dichloroethene
 Concen: 0.627 ug/l
 RT: 7.465 min Scan# 91
 Delta R.T. -0.000 min
 Lab File: VN088314.D
 Acq: 18 Nov 2025 13:26

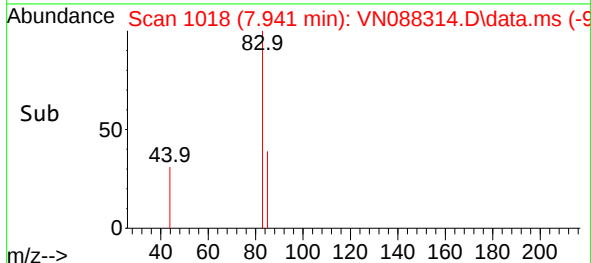
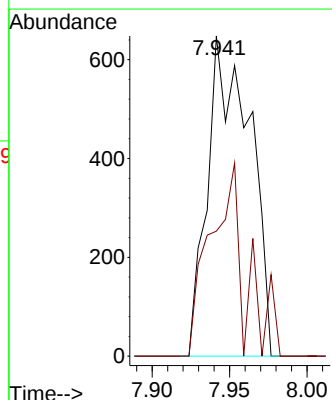
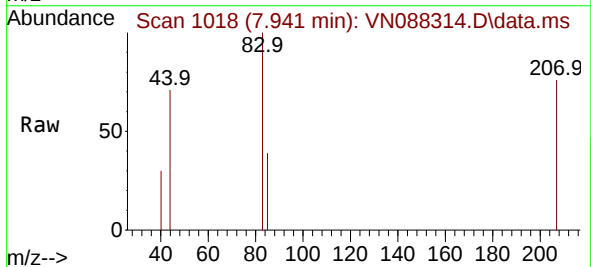
Instrument :
 MSVOA_N
 ClientSampleId :
 FRAC-TANK-M21012DL

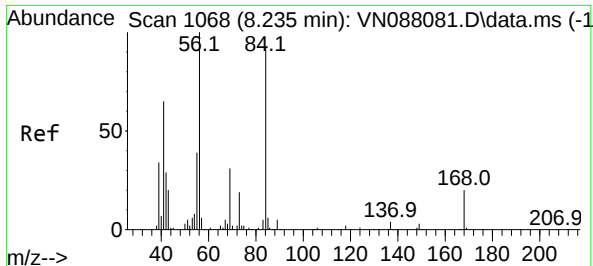
Tgt Ion: 96 Resp: 1803
 Ion Ratio Lower Upper
 96 100
 61 167.4 0.0 301.8
 98 36.6 0.0 126.2



#30
 Chloroform
 Concen: 0.264 ug/l
 RT: 7.941 min Scan# 1018
 Delta R.T. -0.006 min
 Lab File: VN088314.D
 Acq: 18 Nov 2025 13:26

Tgt Ion: 83 Resp: 1224
 Ion Ratio Lower Upper
 83 100
 85 39.0 50.7 76.1#

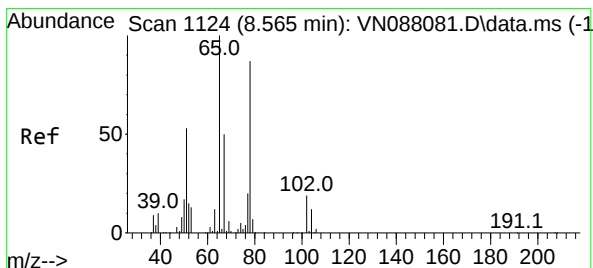
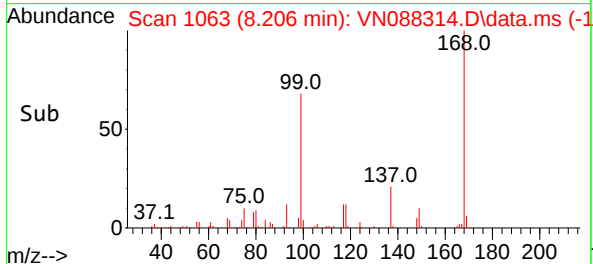
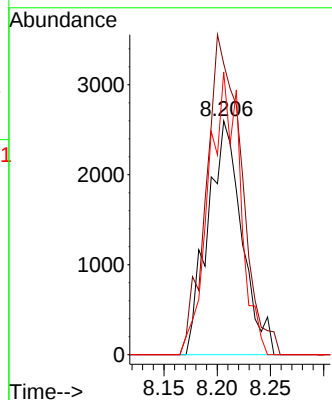
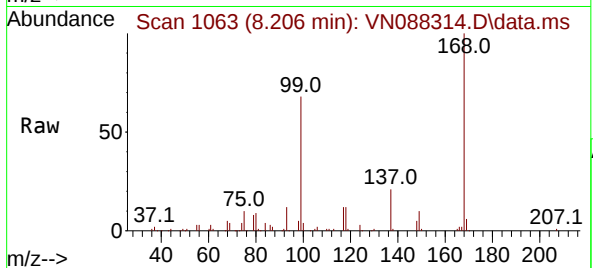




#31
Cyclohexane
Concen: 1.322 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.029 min
Lab File: VN088314.D
Acq: 18 Nov 2025 13:26

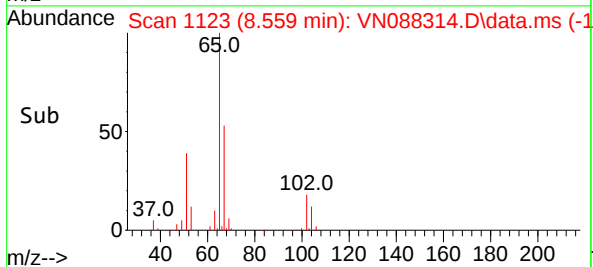
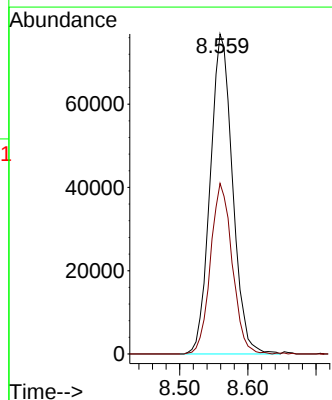
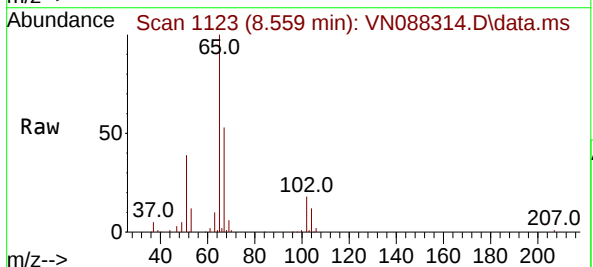
Instrument :
MSVOA_N
ClientSampleId :
FRAC-TANK-M21012DL

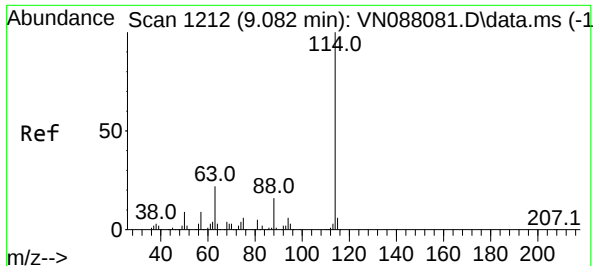
Tgt Ion: 56 Resp: 5791
Ion Ratio Lower Upper
56 100
69 124.4 23.7 35.5#
84 120.9 64.7 97.1#



#33
1,2-Dichloroethane-d4
Concen: 56.076 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN088314.D
Acq: 18 Nov 2025 13:26

Tgt Ion: 65 Resp: 175524
Ion Ratio Lower Upper
65 100
67 51.8 0.0 100.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN088314.D

Acq: 18 Nov 2025 13:26

Instrument :

MSVOA_N

ClientSampleId :

FRAC-TANK-M21012DL

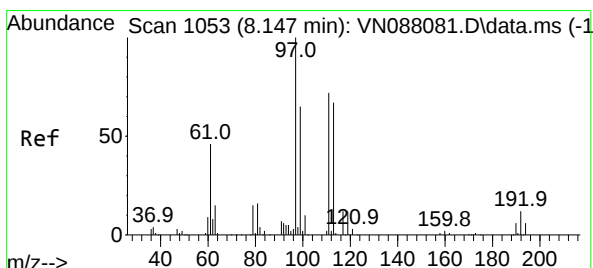
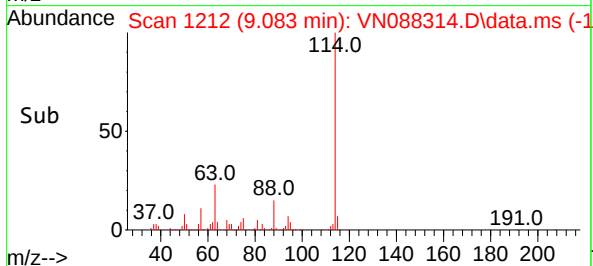
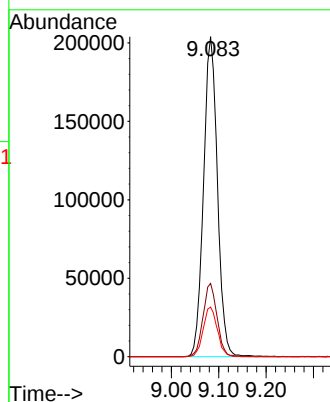
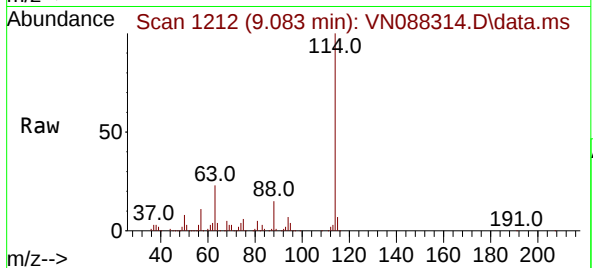
Tgt Ion:114 Resp: 414617

Ion Ratio Lower Upper

114 100

63 22.9 0.0 45.2

88 15.5 0.0 33.4



#35

Dibromofluoromethane

Concen: 49.485 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. -0.000 min

Lab File: VN088314.D

Acq: 18 Nov 2025 13:26

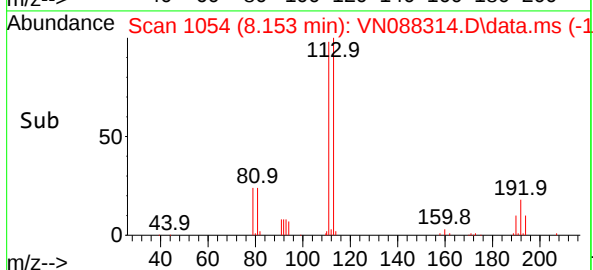
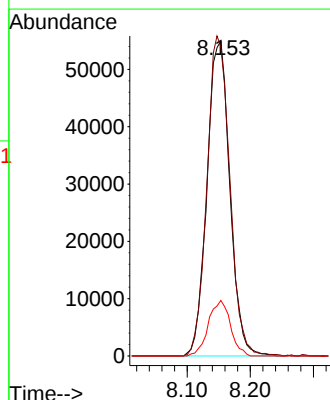
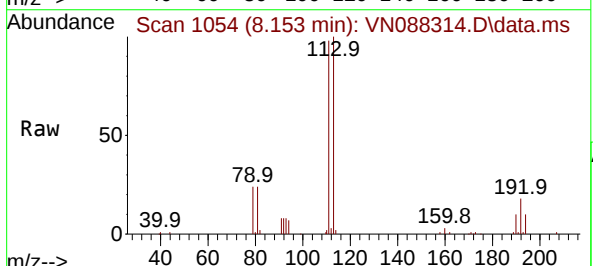
Tgt Ion:113 Resp: 137837

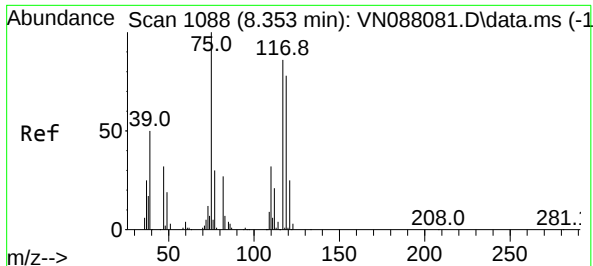
Ion Ratio Lower Upper

113 100

111 101.7 82.8 124.2

192 17.0 12.8 19.2





#36

1,1-Dichloropropene

Concen: 4.663 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN088314.D

Acq: 18 Nov 2025 13:26

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FRAC-TANK-M21012DL

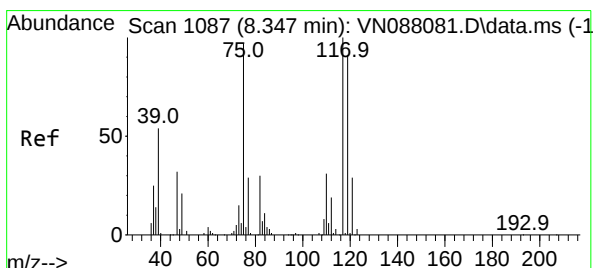
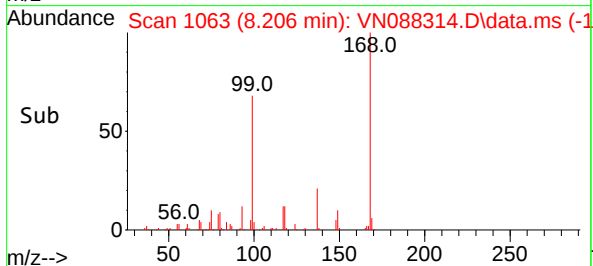
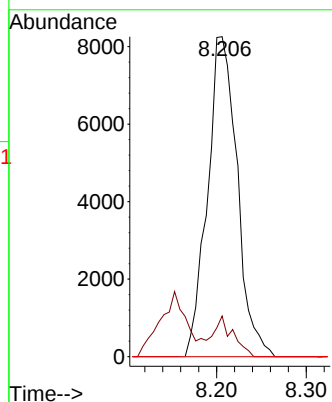
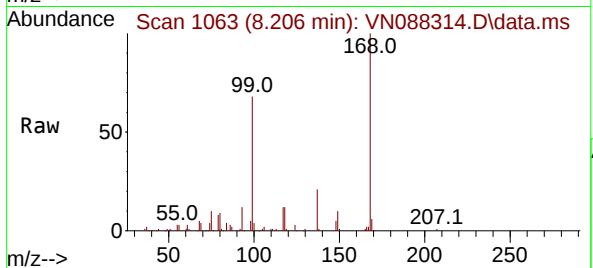
Tgt Ion: 75 Resp: 18963

Ion Ratio Lower Upper

75 100

110 8.1 15.9 47.6#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 5.080 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.135 min

Lab File: VN088314.D

Acq: 18 Nov 2025 13:26

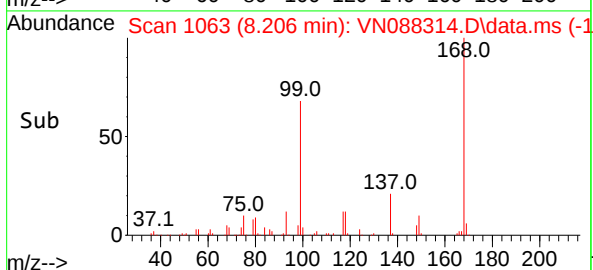
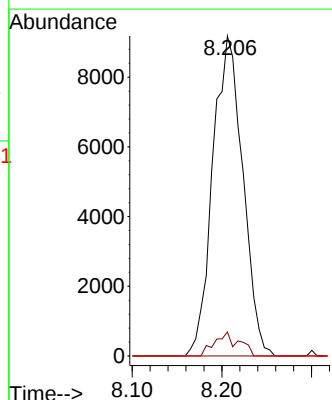
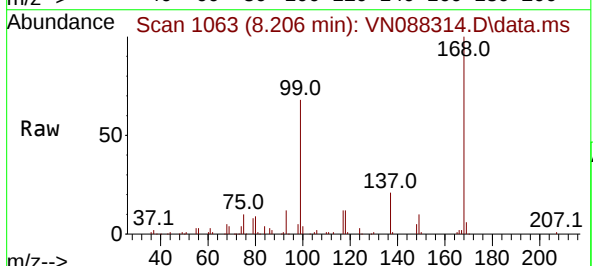
Tgt Ion: 117 Resp: 21340

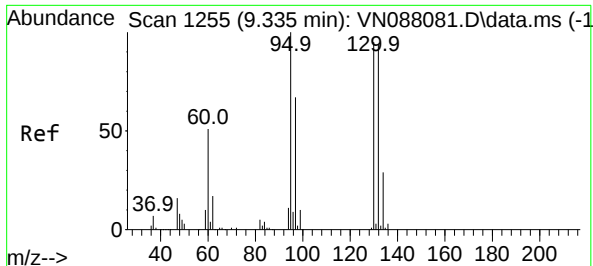
Ion Ratio Lower Upper

117 100

119 7.5 79.0 118.6#

121 0.0 25.0 37.6#

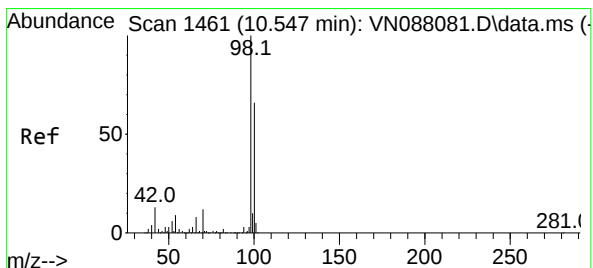
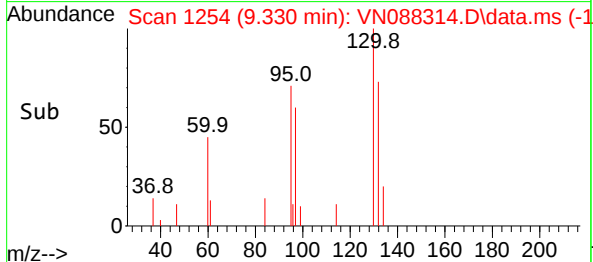
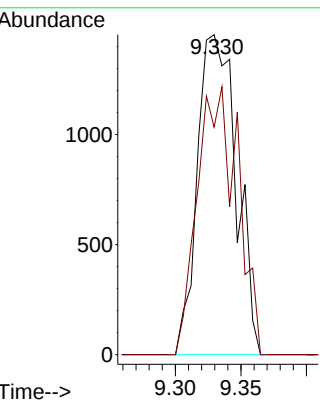
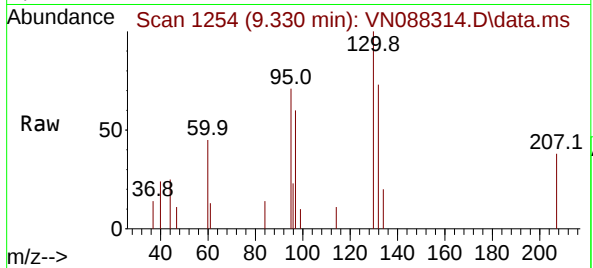




#44
Trichloroethene
Concen: 1.034 ug/l
RT: 9.330 min Scan# 1255
Delta R.T. -0.000 min
Lab File: VN088314.D
Acq: 18 Nov 2025 13:26

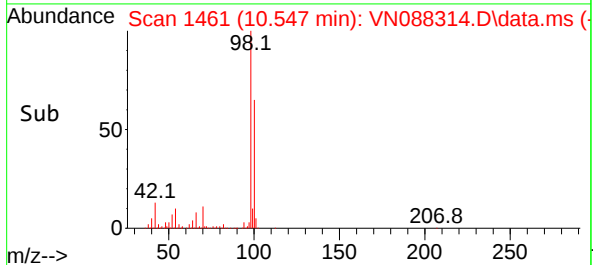
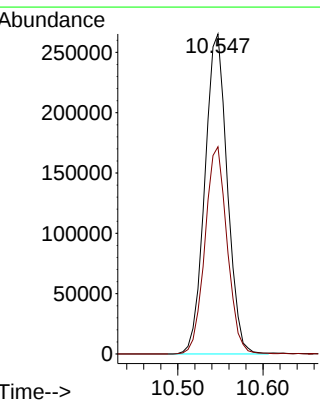
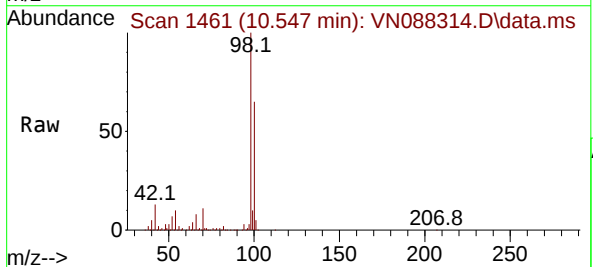
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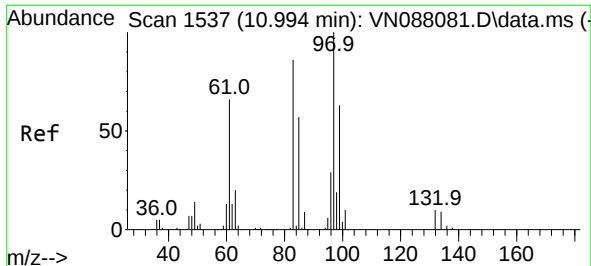
Tgt Ion:130 Resp: 2993
Ion Ratio Lower Upper
130 100
95 71.1 0.0 212.0



#50
Toluene-d8
Concen: 45.274 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN088314.D
Acq: 18 Nov 2025 13:26

Tgt Ion: 98 Resp: 485916
Ion Ratio Lower Upper
98 100
100 64.1 52.8 79.2



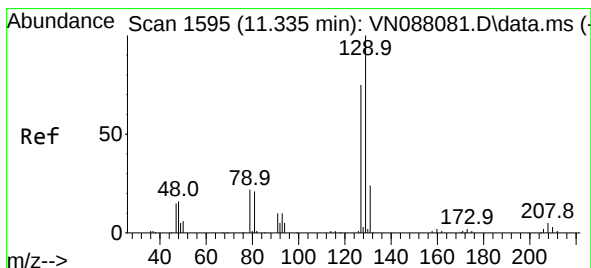
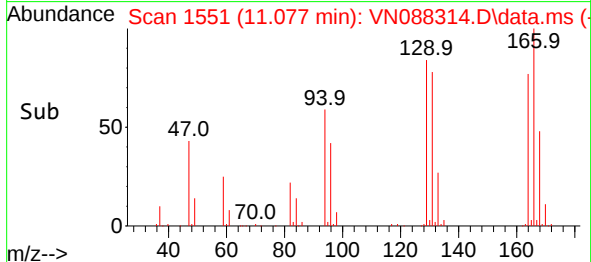
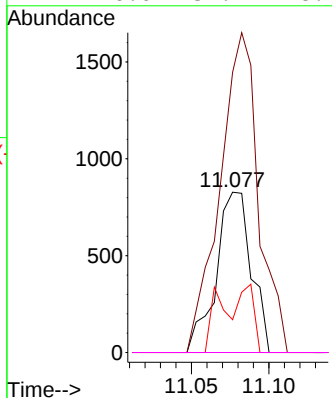
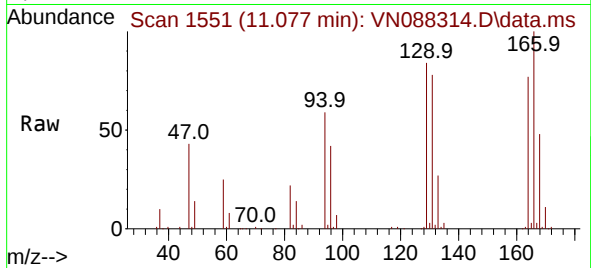


#55
1,1,2-Trichloroethane
Concen: 0.451 ug/l
RT: 11.077 min Scan# 1551
Delta R.T. 0.082 min
Lab File: VN088314.D
Acq: 18 Nov 2025 13:26

Instrument :
MSVOA_N
ClientSampleId :
FRAC-TANK-M21012DL

Tgt Ion: 97 Resp: 1307

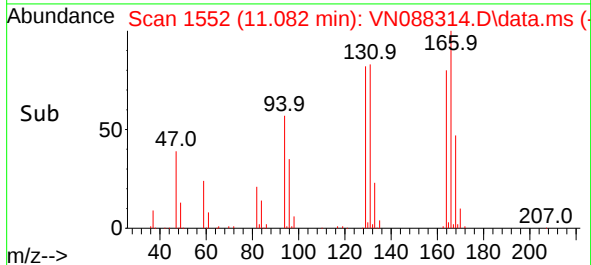
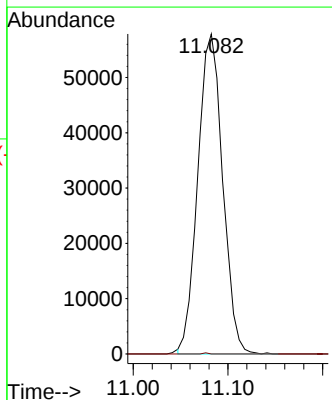
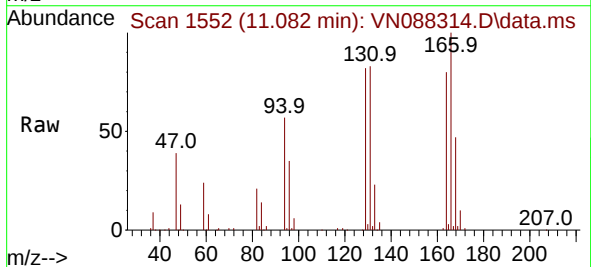
Ion	Ratio	Lower	Upper
97	100		
83	174.6	68.2	102.4#
85	20.5	45.5	68.3#
99	0.0	52.2	78.4#

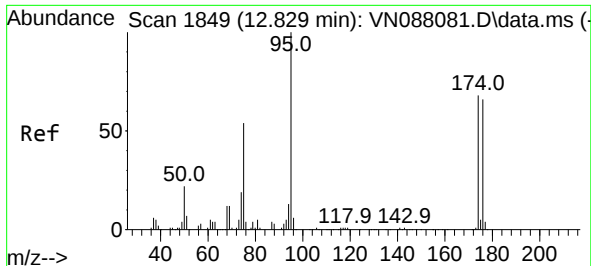


#60
Dibromochloromethane
Concen: 32.025 ug/l
RT: 11.082 min Scan# 1552
Delta R.T. -0.253 min
Lab File: VN088314.D
Acq: 18 Nov 2025 13:26

Tgt Ion: 129 Resp: 105459

Ion	Ratio	Lower	Upper
129	100		
127	0.1	39.1	117.3#

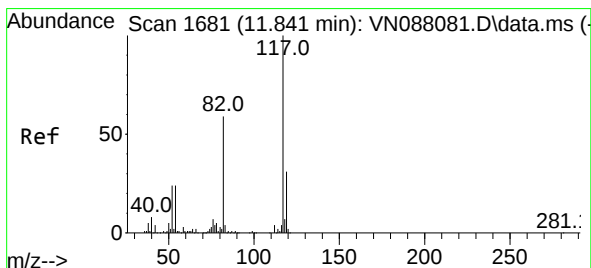
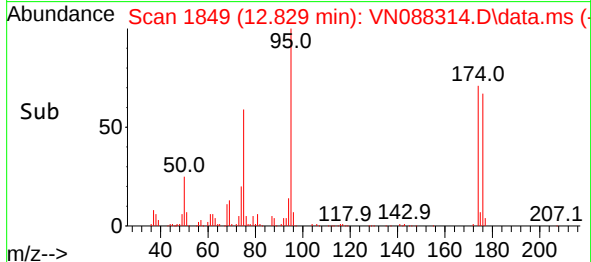
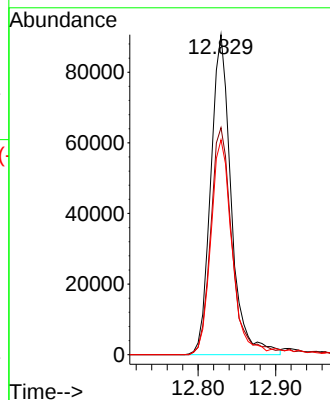
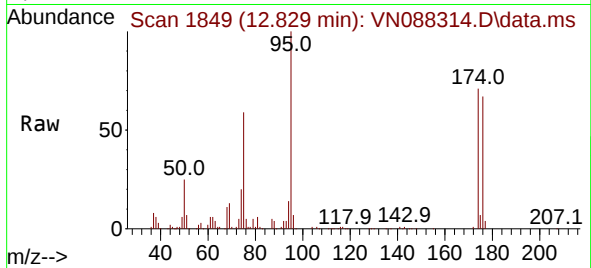




#62
4-Bromofluorobenzene
Concen: 43.880 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088314.D
Acq: 18 Nov 2025 13:26

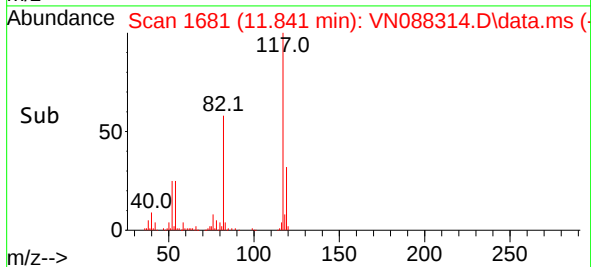
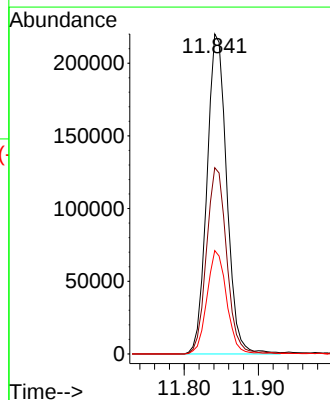
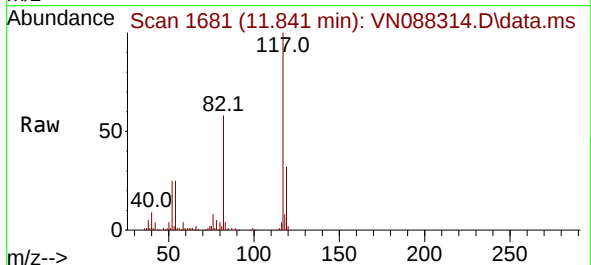
Instrument :
MSVOA_N
ClientSampleId :
FRAC-TANK-M21012DL

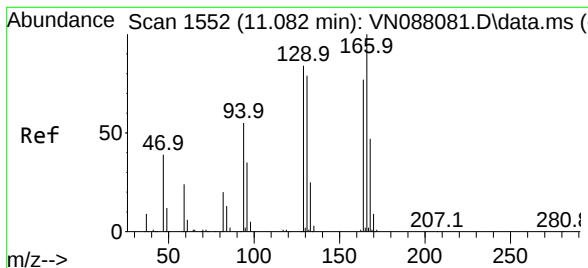
Tgt Ion: 95 Resp: 166322
Ion Ratio Lower Upper
95 100
174 75.4 0.0 138.4
176 69.5 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VN088314.D
Acq: 18 Nov 2025 13:26

Tgt Ion: 117 Resp: 408427
Ion Ratio Lower Upper
117 100
82 58.2 47.4 71.2
119 32.3 24.3 36.5





#64

Tetrachloroethene

Concen: 37.936 ug/l

RT: 11.082 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN088314.D

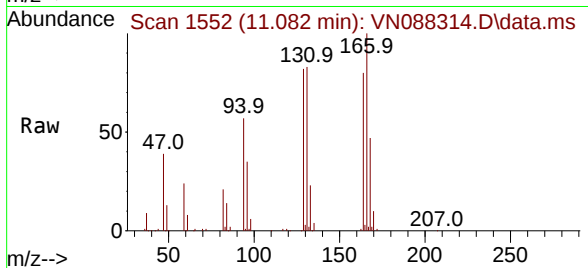
Acq: 18 Nov 2025 13:26

Instrument :

MSVOA_N

ClientSampleId :

FRAC-TANK-M21012DL



Tgt Ion:164 Resp: 102203

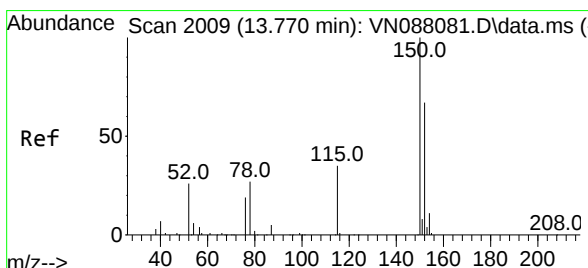
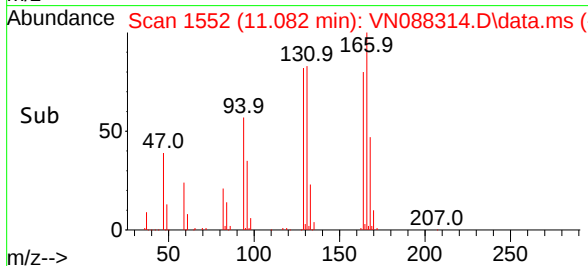
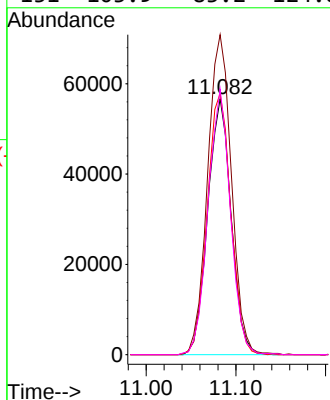
Ion Ratio Lower Upper

164 100

166 125.1 97.7 146.5

129 102.2 85.9 128.9

131 103.9 83.2 124.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 2009

Delta R.T. 0.006 min

Lab File: VN088314.D

Acq: 18 Nov 2025 13:26

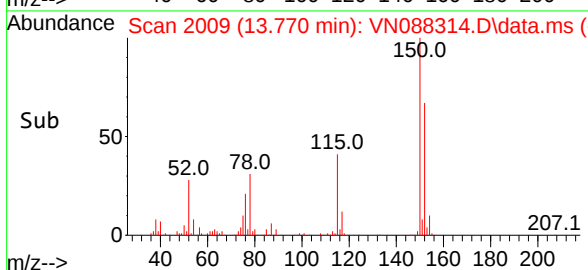
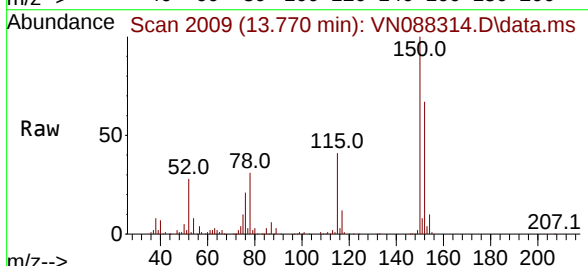
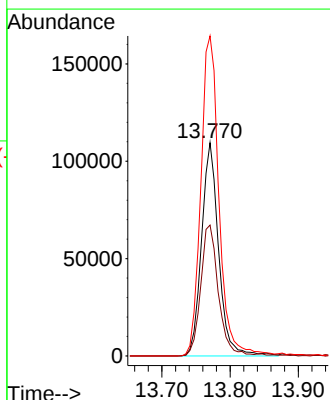
Tgt Ion:152 Resp: 191561

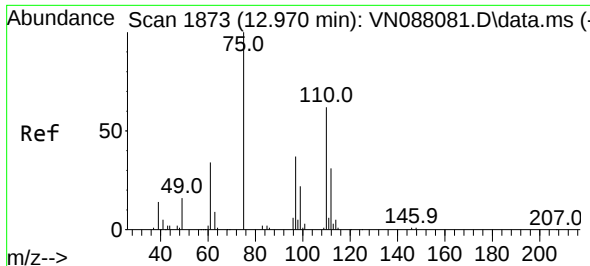
Ion Ratio Lower Upper

152 100

115 63.1 32.3 96.8

150 158.7 0.0 351.0

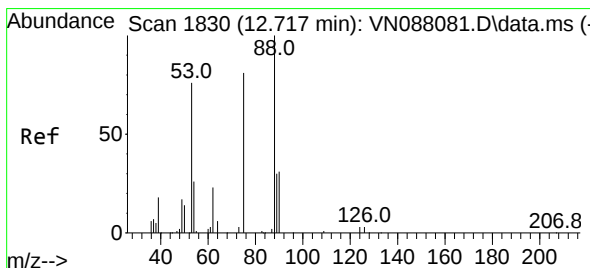
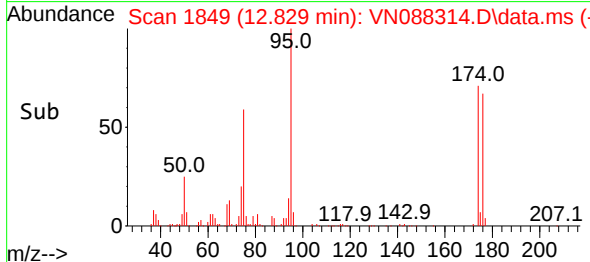
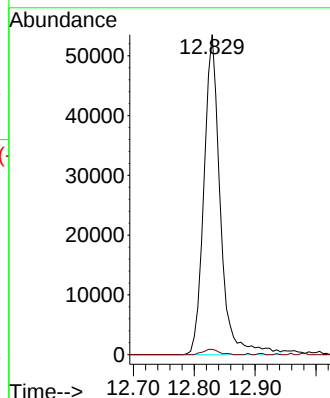
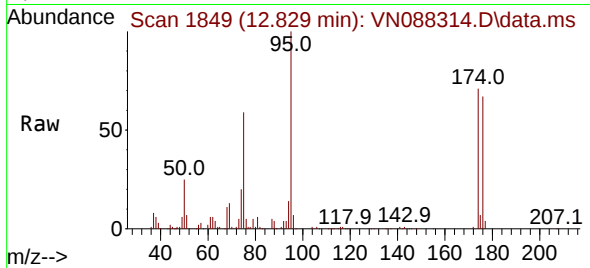




#76
1,2,3-Trichloropropane
Concen: 22.812 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN088314.D
Acq: 18 Nov 2025 13:26

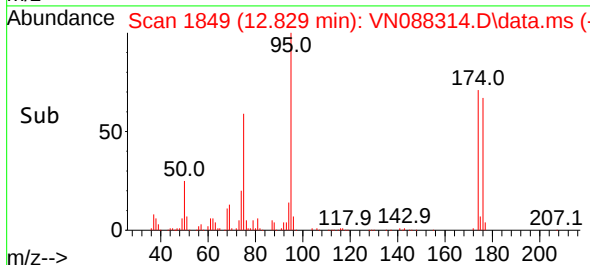
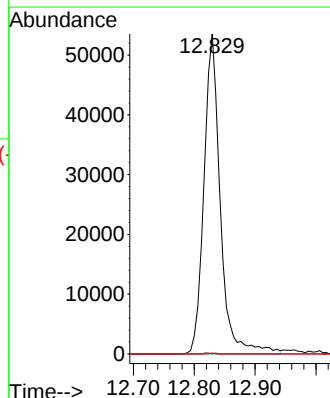
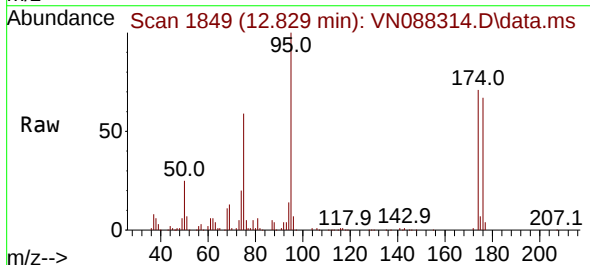
Instrument :
MSVOA_N
ClientSampleId :
FRAC-TANK-M21012DL

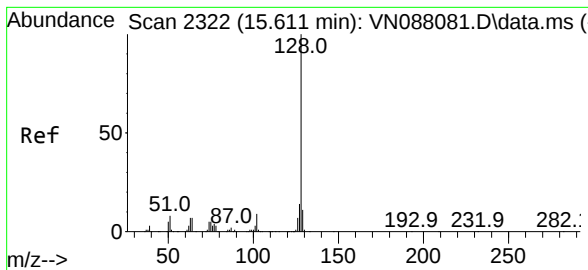
Tgt Ion: 75 Resp: 99911
Ion Ratio Lower Upper
75 100
77 1.6 89.1 267.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 63.636 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN088314.D
Acq: 18 Nov 2025 13:26

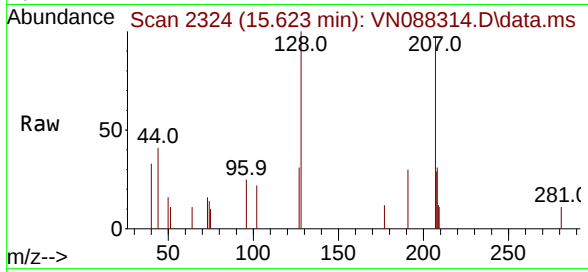
Tgt Ion: 75 Resp: 99911
Ion Ratio Lower Upper
75 100
53 0.2 101.8 152.6#
89 0.1 35.6 53.4#





#95
Naphthalene
Concen: 0.322 ug/l
RT: 15.623 min Scan# 21
Delta R.T. 0.012 min
Lab File: VN088314.D
Acq: 18 Nov 2025 13:26

Instrument :
MSVOA_N
ClientSampleId :
FRAC-TANK-M21012DL



Tgt Ion:	128	Resp:	4099
Ion	Ratio	Lower	Upper
128	100		
127	7.6	10.6	15.8#
129	4.2	8.6	12.8#

