

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
 Data File : VN088381.D
 Acq On : 01 Dec 2025 14:33
 Operator : JC\MD
 Sample : Q3716-02RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 02 00:14:50 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

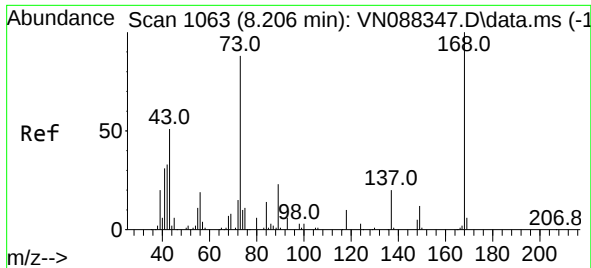
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.206	168	207192	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	481798	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	474127	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	234308	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	238585	61.127	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 122.260%		
35) Dibromofluoromethane	8.147	113	174166	52.164	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 104.320%		
50) Toluene-d8	10.541	98	626801	50.455	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 100.900%		
62) 4-Bromofluorobenzene	12.829	95	239117	56.097	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 112.200%		
Target Compounds						
					Qvalue	
16) Acetone	4.418	43	4250	3.011	ug/l	95
31) Cyclohexane	8.194	56	6413	1.249	ug/l #	46
36) 1,1-Dichloropropene	8.200	75	19504	3.785	ug/l #	51
38) Carbon Tetrachloride	8.206	117	25720	5.014	ug/l #	15
52) Toluene	10.612	92	3447	0.395	ug/l	98
67) Ethyl Benzene	11.947	91	4078	0.219	ug/l #	82
68) m/p-Xylenes	12.041	106	6069	0.879	ug/l	90
69) o-Xylene	12.382	106	1580	0.240	ug/l	96
71) Bromoform	12.829	173	1488	0.566	ug/l #	1
76) 1,2,3-Trichloropropane	12.829	75	131904	24.035	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.153	105	3522	0.245	ug/l	91
81) trans-1,4-Dichloro-2-b...	12.829	75	131904	68.187	ug/l #	1
84) 1,2,4-Trimethylbenzene	13.464	105	8667	0.607	ug/l	96
95) Naphthalene	15.611	128	3529	0.236	ug/l #	76

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

Quant Time: Dec 02 00:14:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
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QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

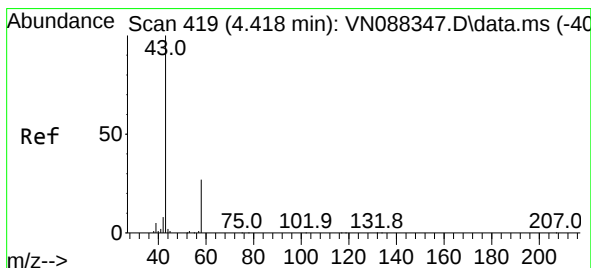
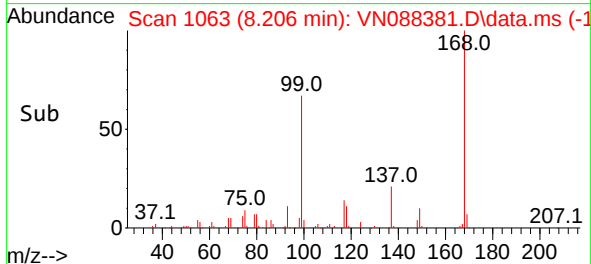
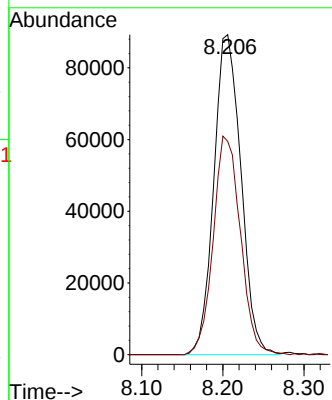
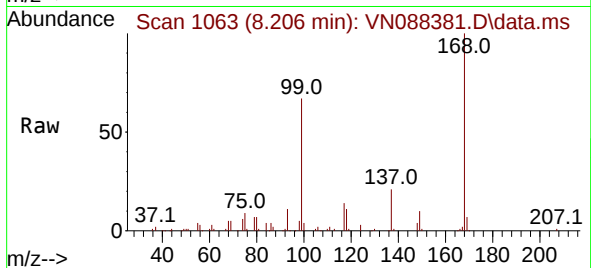




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088381.D
Acq: 01 Dec 2025 14:33

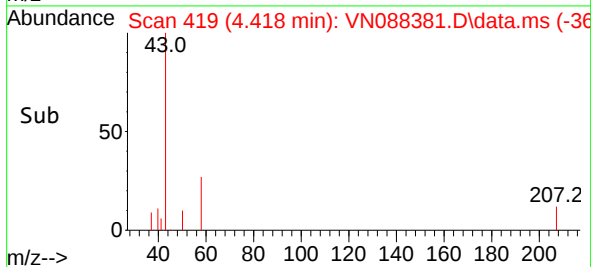
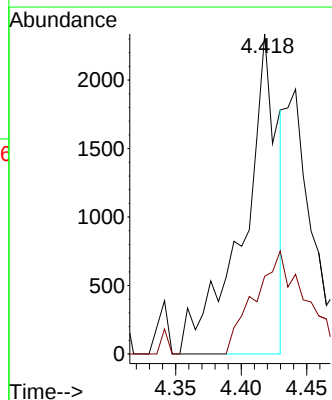
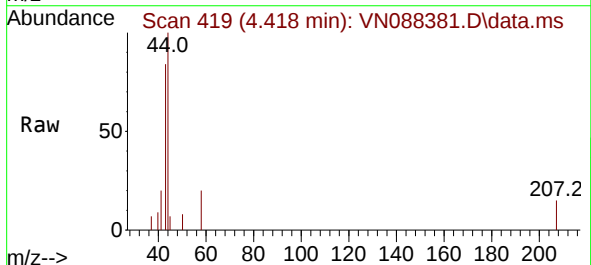
Instrument :
MSVOA_N
ClientSampleId :

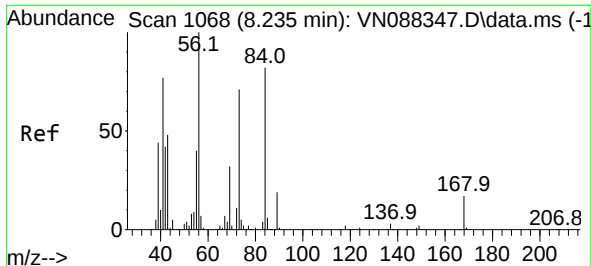
Tgt Ion:168 Resp: 207192
Ion Ratio Lower Upper
168 100
99 66.7 57.1 85.7



#16
Acetone
Concen: 3.011 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.000 min
Lab File: VN088381.D
Acq: 01 Dec 2025 14:33

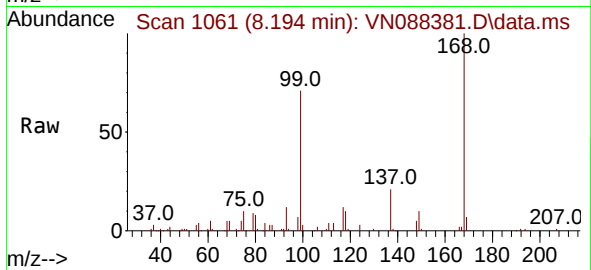
Tgt Ion: 43 Resp: 4250
Ion Ratio Lower Upper
43 100
58 24.3 21.7 32.5



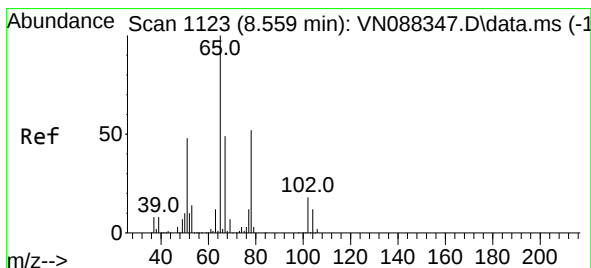
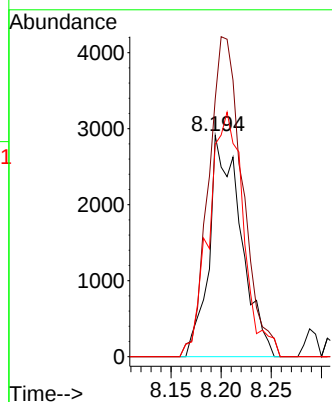
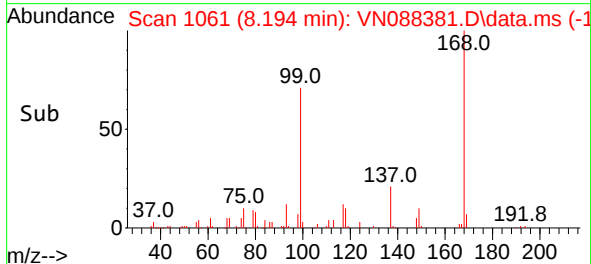


#31
Cyclohexane
Concen: 1.249 ug/l
RT: 8.194 min Scan# 1061
Delta R.T. -0.041 min
Lab File: VN088381.D
Acq: 01 Dec 2025 14:33

Instrument :
MSVOA_N
ClientSampleId :

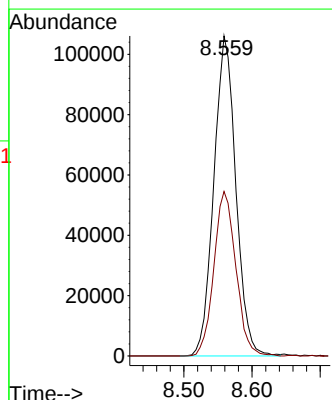
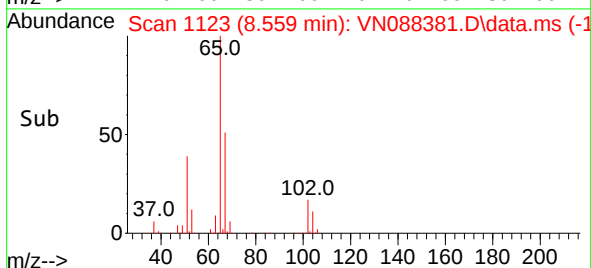
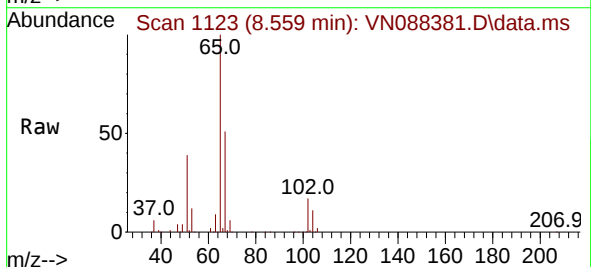


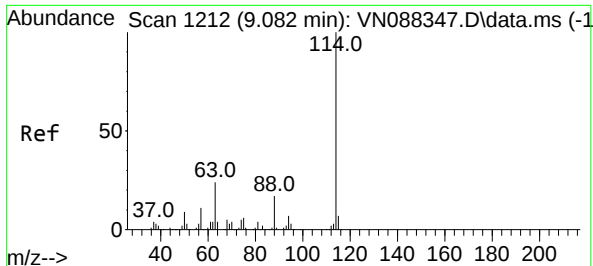
Tgt Ion: 56 Resp: 6413
Ion Ratio Lower Upper
56 100
69 116.6 25.3 37.9#
84 96.1 65.4 98.2



#33
1,2-Dichloroethane-d4
Concen: 61.127 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN088381.D
Acq: 01 Dec 2025 14:33

Tgt Ion: 65 Resp: 238585
Ion Ratio Lower Upper
65 100
67 51.4 0.0 100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN088381.D

Acq: 01 Dec 2025 14:33

Instrument :

MSVOA_N

ClientSampleId :

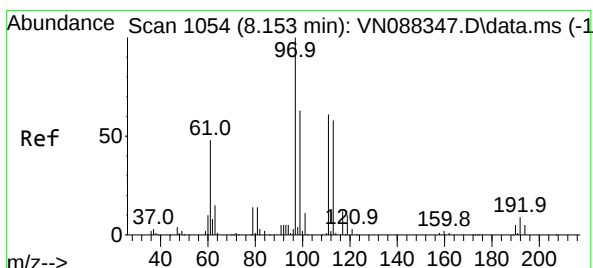
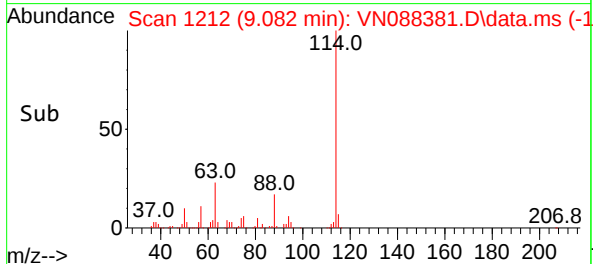
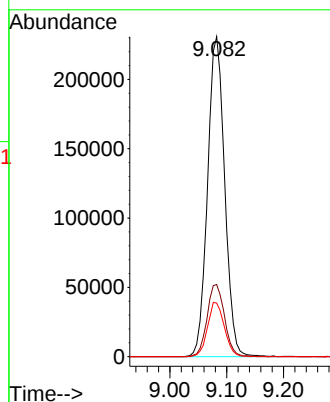
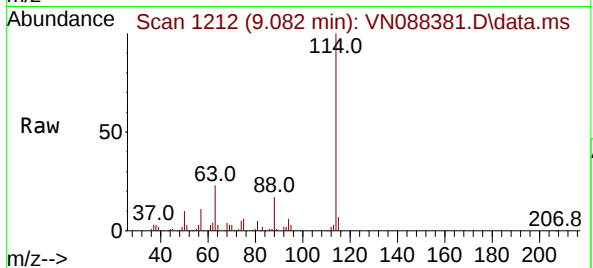
Tgt Ion:114 Resp: 481798

Ion Ratio Lower Upper

114 100

63 22.6 0.0 49.0

88 16.8 0.0 34.0



#35

Dibromofluoromethane

Concen: 52.164 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088381.D

Acq: 01 Dec 2025 14:33

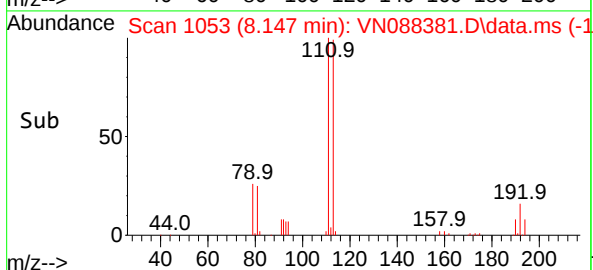
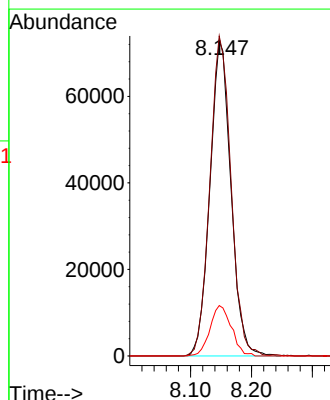
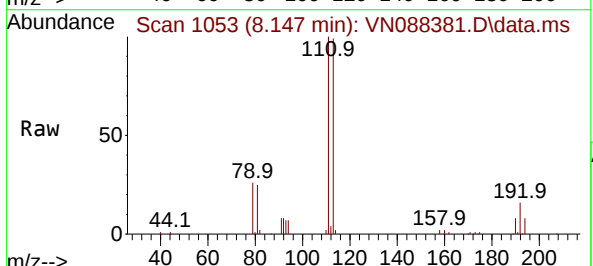
Tgt Ion:113 Resp: 174166

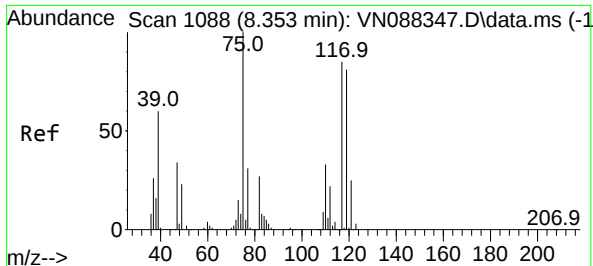
Ion Ratio Lower Upper

113 100

111 102.1 82.5 123.7

192 16.3 12.8 19.2





#36

1,1-Dichloropropene

Concen: 3.785 ug/l

RT: 8.200 min Scan# 1062

Delta R.T. -0.153 min

Lab File: VN088381.D

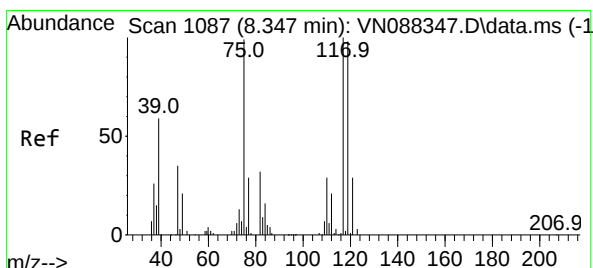
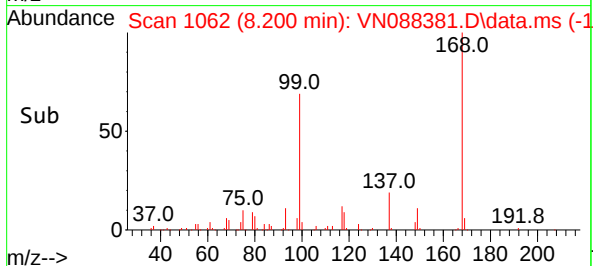
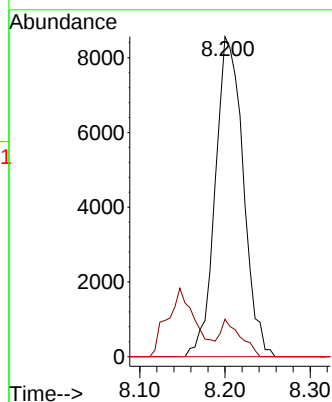
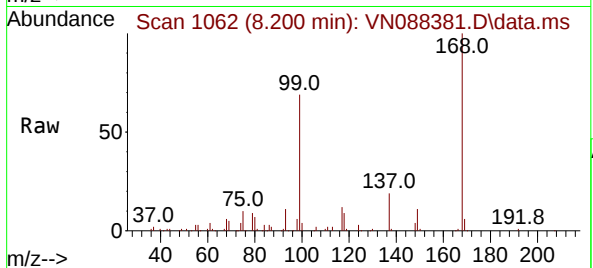
Acq: 01 Dec 2025 14:33

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	75	Resp:	19504
Ion Ratio	Lower	Upper	
75	100		
110	8.4	15.8	47.4#
77	0.0	24.2	36.2#



#38

Carbon Tetrachloride

Concen: 5.014 ug/l

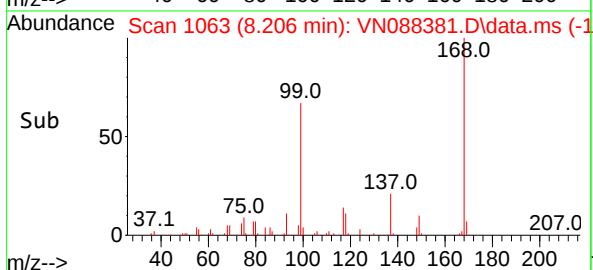
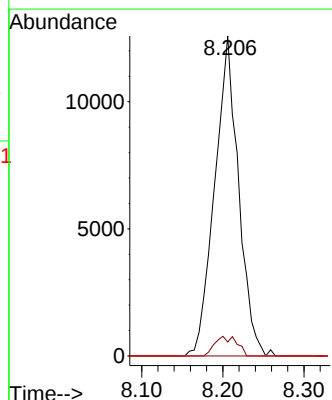
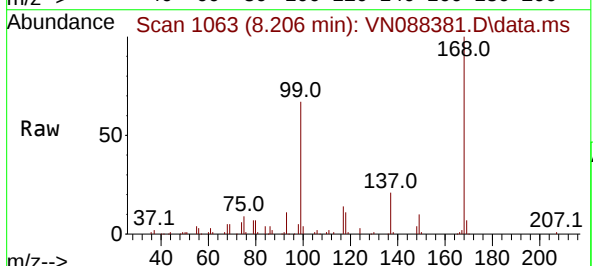
RT: 8.206 min Scan# 1063

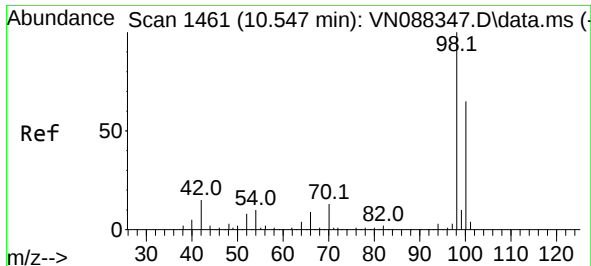
Delta R.T. -0.141 min

Lab File: VN088381.D

Acq: 01 Dec 2025 14:33

Tgt Ion:	117	Resp:	25720
Ion Ratio	Lower	Upper	
117	100		
119	4.3	78.2	117.4#
121	0.0	23.4	35.2#

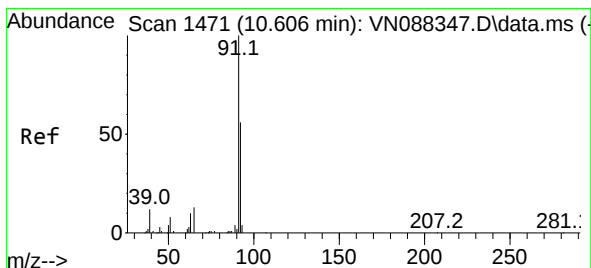
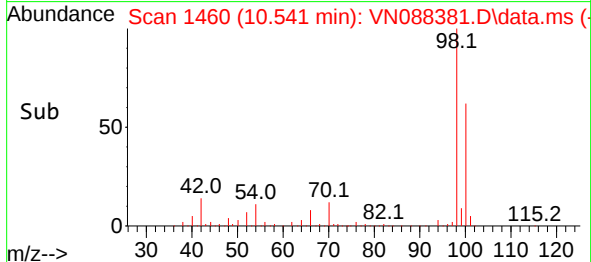
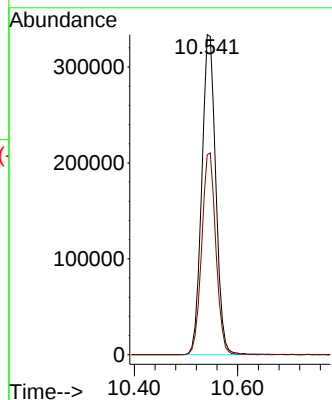
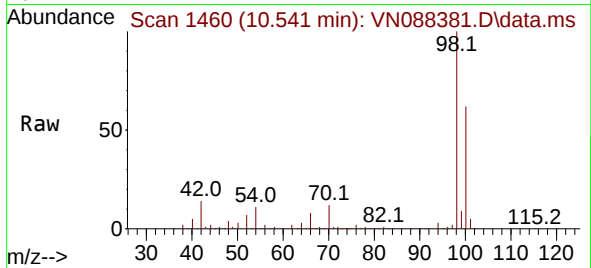




#50
Toluene-d8
Concen: 50.455 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088381.D
Acq: 01 Dec 2025 14:33

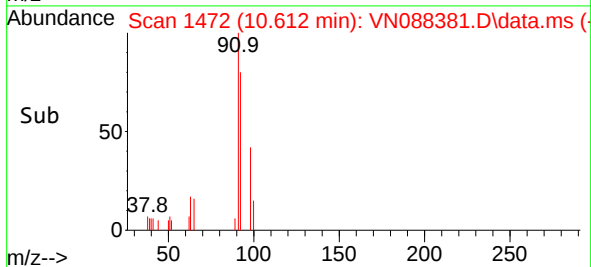
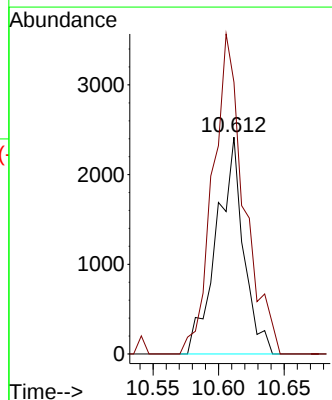
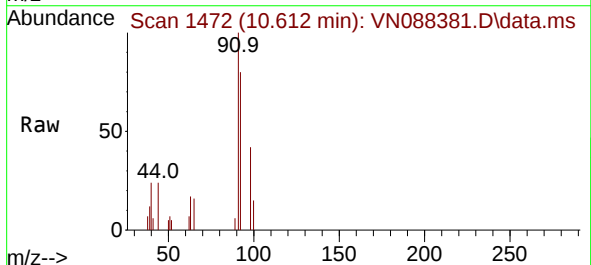
Instrument :
MSVOA_N
ClientSampleId :

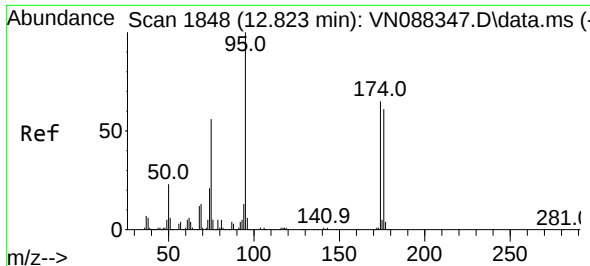
Tgt Ion: 98 Resp: 626801
Ion Ratio Lower Upper
98 100
100 63.6 52.2 78.2



#52
Toluene
Concen: 0.395 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. 0.006 min
Lab File: VN088381.D
Acq: 01 Dec 2025 14:33

Tgt Ion: 92 Resp: 3447
Ion Ratio Lower Upper
92 100
91 171.8 140.2 210.2

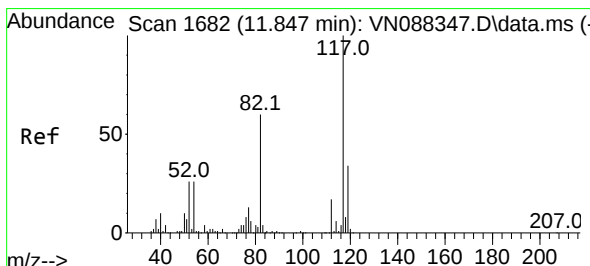
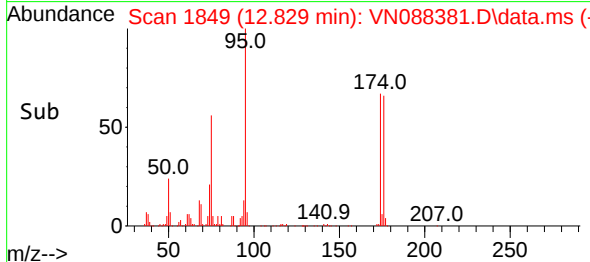
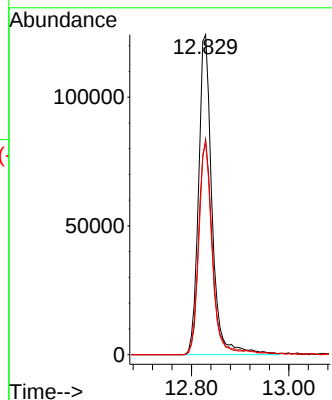
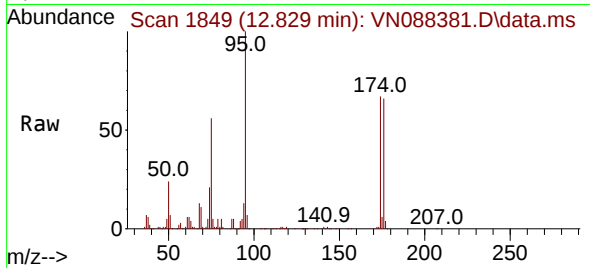




#62
4-Bromofluorobenzene
Concen: 56.097 ug/l
RT: 12.829 min Scan# 1848
Delta R.T. 0.006 min
Lab File: VN088381.D
Acq: 01 Dec 2025 14:33

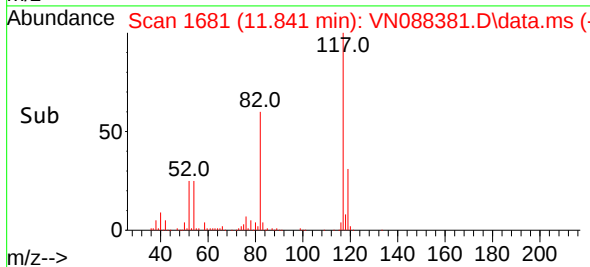
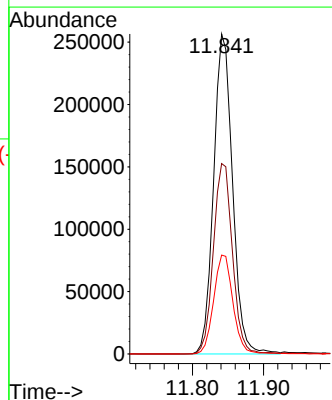
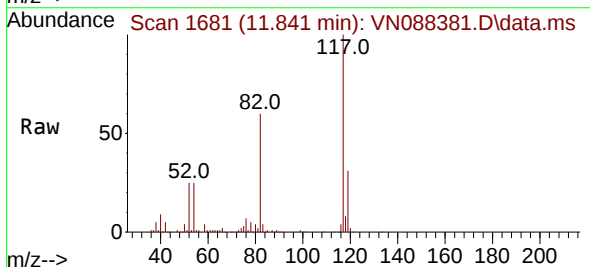
Instrument :
MSVOA_N
ClientSampleId :

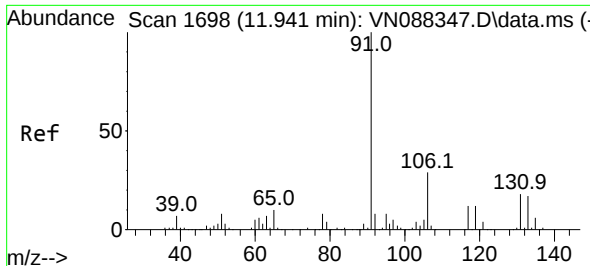
Tgt Ion: 95 Resp: 239117
Ion Ratio Lower Upper
95 100
174 68.0 0.0 139.0
176 65.6 0.0 132.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.006 min
Lab File: VN088381.D
Acq: 01 Dec 2025 14:33

Tgt Ion: 117 Resp: 474127
Ion Ratio Lower Upper
117 100
82 59.5 47.8 71.8
119 30.9 26.9 40.3

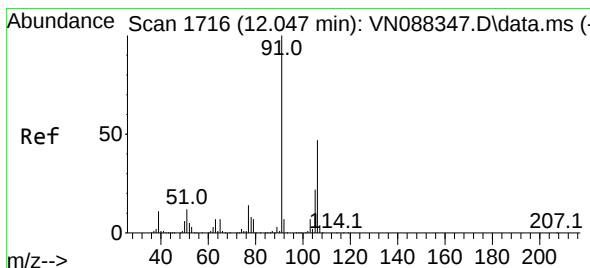
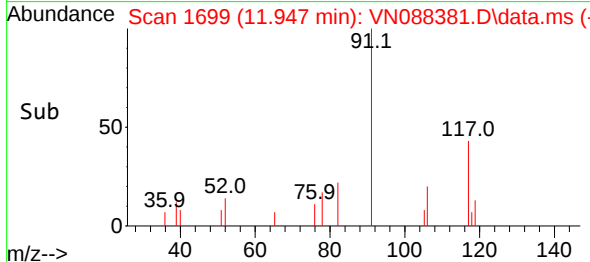
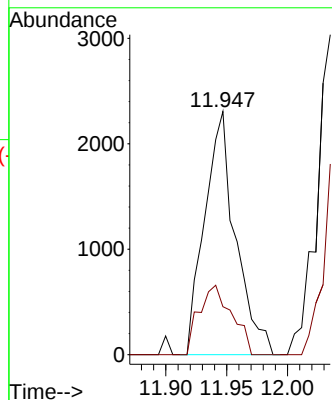
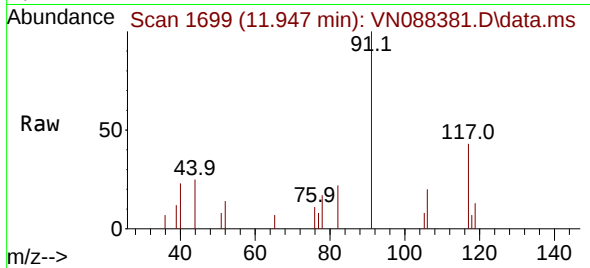




#67
Ethyl Benzene
Concen: 0.219 ug/l
RT: 11.947 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN088381.D
Acq: 01 Dec 2025 14:33

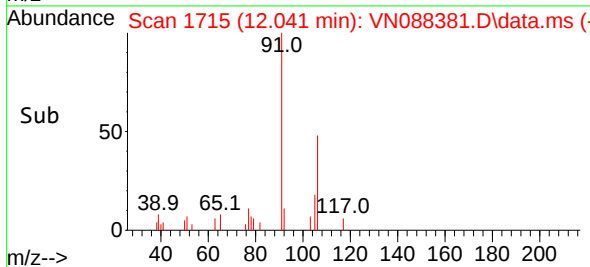
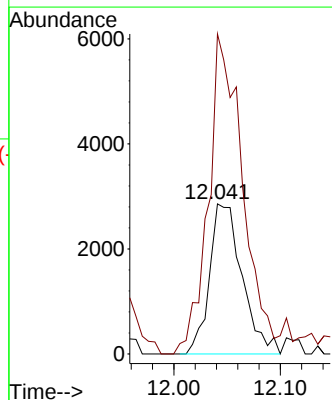
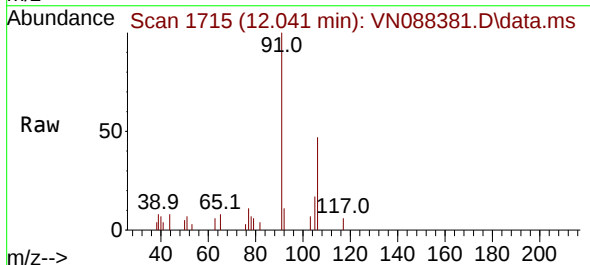
Instrument :
MSVOA_N
ClientSampleId :

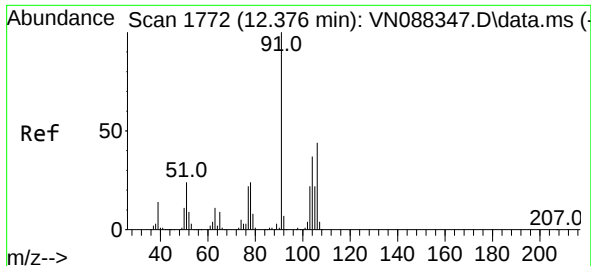
Tgt Ion: 91 Resp: 4078
Ion Ratio Lower Upper
91 100
106 19.7 23.6 35.4#



#68
m/p-Xylenes
Concen: 0.879 ug/l
RT: 12.041 min Scan# 1715
Delta R.T. -0.006 min
Lab File: VN088381.D
Acq: 01 Dec 2025 14:33

Tgt Ion: 106 Resp: 6069
Ion Ratio Lower Upper
106 100
91 225.3 167.8 251.6

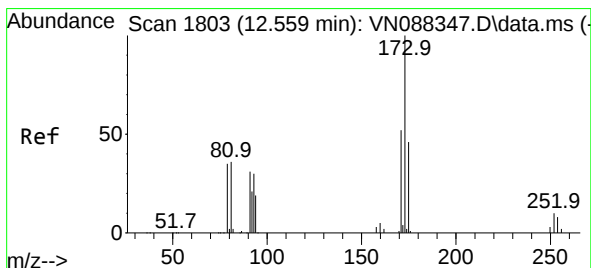
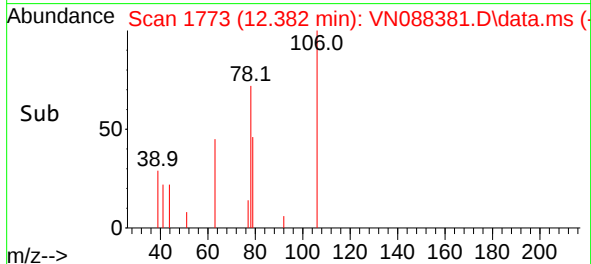
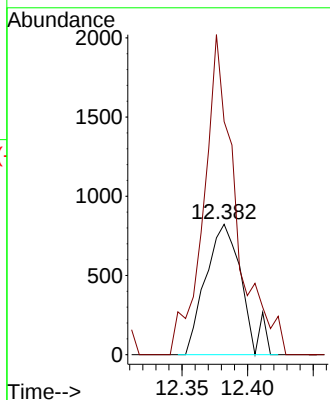
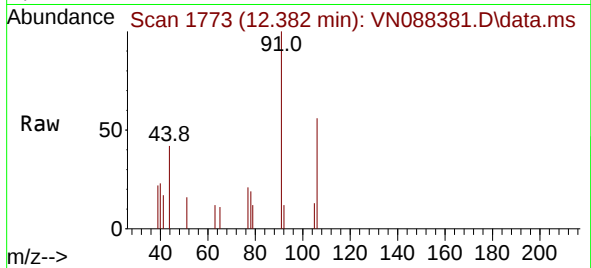




#69
o-Xylene
Concen: 0.240 ug/l
RT: 12.382 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN088381.D
Acq: 01 Dec 2025 14:33

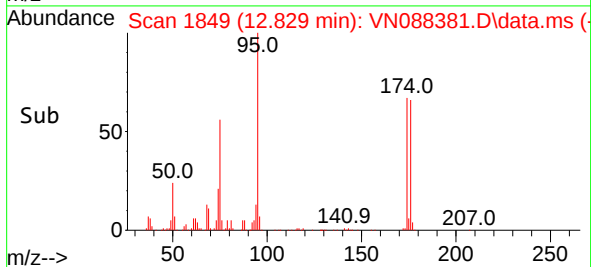
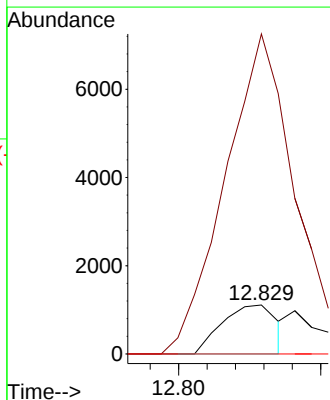
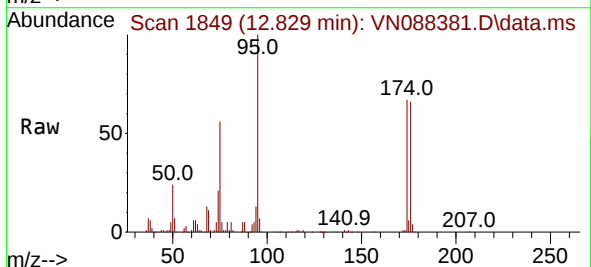
Instrument :
MSVOA_N
ClientSampleId :

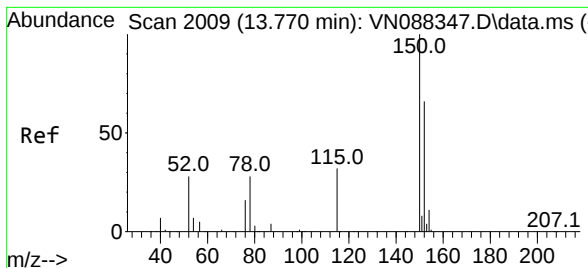
Tgt Ion:106 Resp: 1580
Ion Ratio Lower Upper
106 100
91 219.2 112.9 338.7



#71
Bromoform
Concen: 0.566 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.271 min
Lab File: VN088381.D
Acq: 01 Dec 2025 14:33

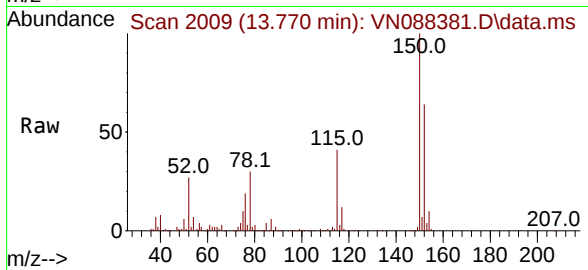
Tgt Ion:173 Resp: 1488
Ion Ratio Lower Upper
173 100
175 652.0 23.9 71.8#
254 0.0 0.1 0.1#



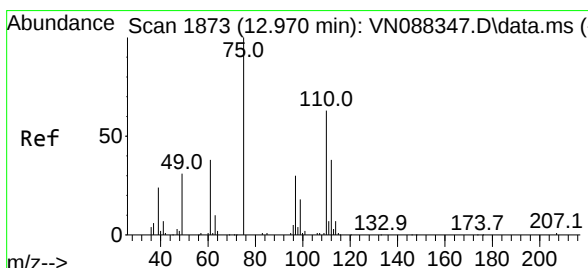
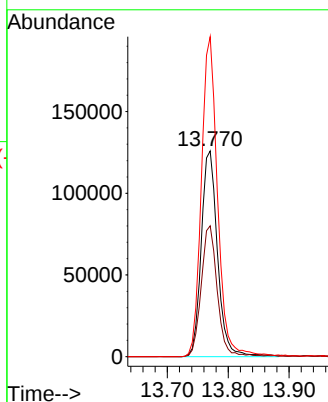
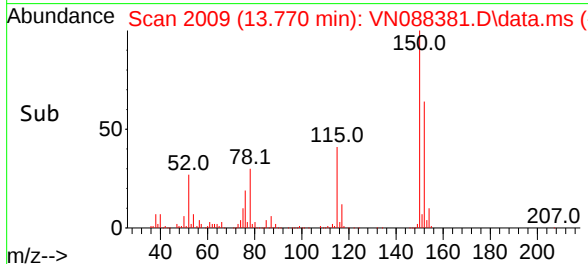


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.770 min Scan# 2009
 Delta R.T. -0.000 min
 Lab File: VN088381.D
 Acq: 01 Dec 2025 14:33

Instrument :
 MSVOA_N
 ClientSampleId :

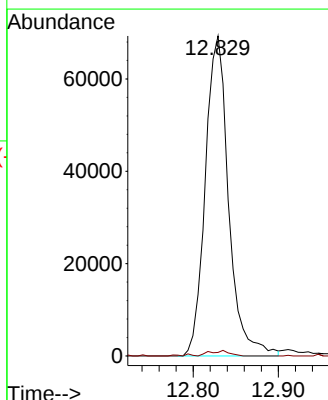
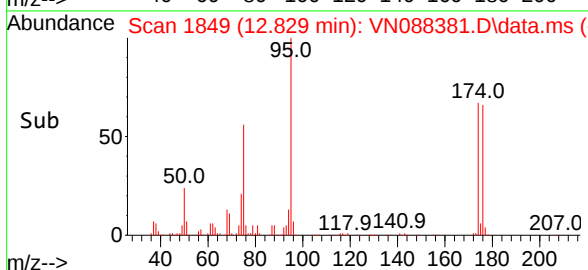
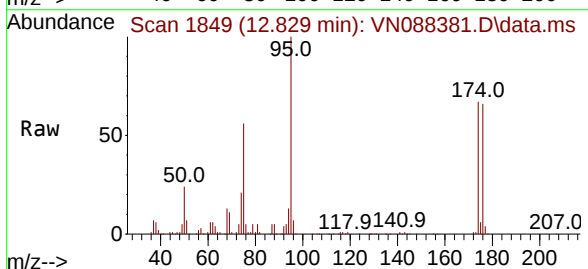


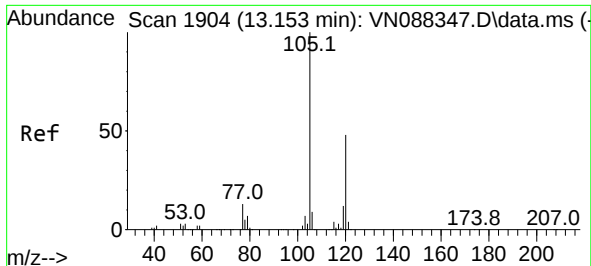
Tgt Ion:152 Resp: 234308
 Ion Ratio Lower Upper
 152 100
 115 62.6 33.0 98.9
 150 154.8 0.0 349.0



#76
 1,2,3-Trichloropropane
 Concen: 24.035 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. -0.141 min
 Lab File: VN088381.D
 Acq: 01 Dec 2025 14:33

Tgt Ion: 75 Resp: 131904
 Ion Ratio Lower Upper
 75 100
 77 1.4 87.2 261.6#

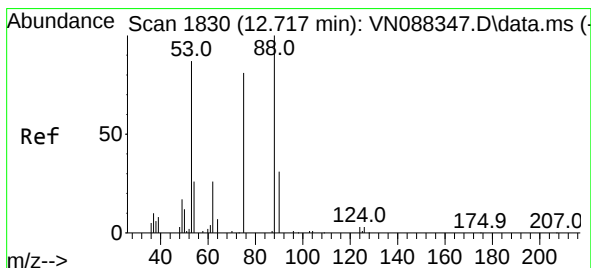
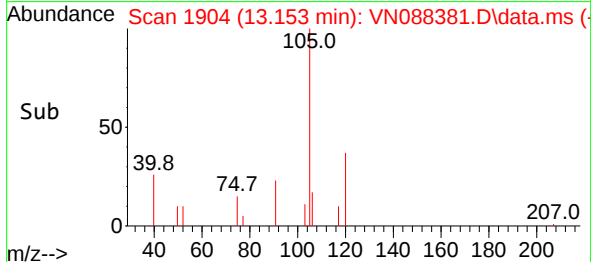
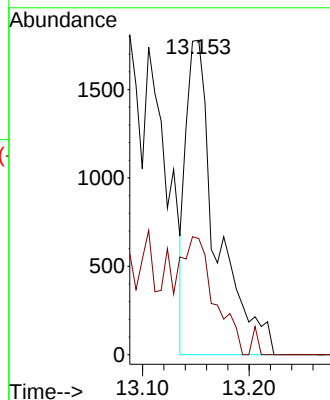
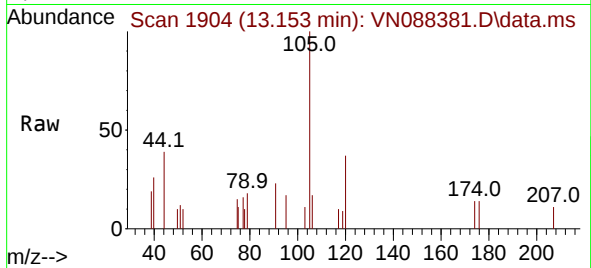




#80
 1,3,5-Trimethylbenzene
 Concen: 0.245 ug/l
 RT: 13.153 min Scan# 1904
 Delta R.T. -0.000 min
 Lab File: VN088381.D
 Acq: 01 Dec 2025 14:33

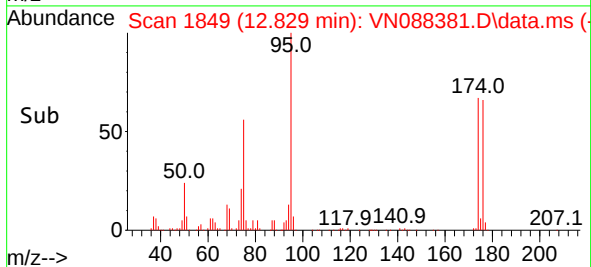
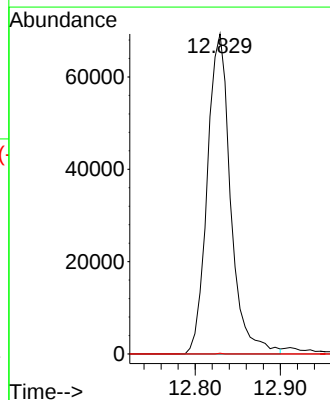
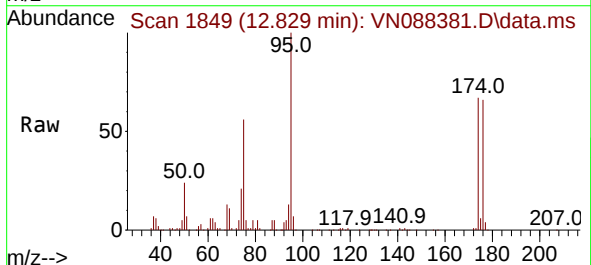
Instrument :
 MSVOA_N
 ClientSampleId :

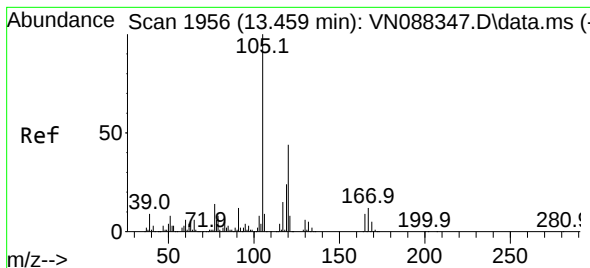
Tgt Ion:105 Resp: 3522
 Ion Ratio Lower Upper
 105 100
 120 41.5 23.8 71.5



#81
 trans-1,4-Dichloro-2-butene
 Concen: 68.187 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. 0.112 min
 Lab File: VN088381.D
 Acq: 01 Dec 2025 14:33

Tgt Ion: 75 Resp: 131904
 Ion Ratio Lower Upper
 75 100
 53 0.0 92.2 138.4#
 89 0.0 0.0 0.0#





#84

1,2,4-Trimethylbenzene

Concen: 0.607 ug/l

RT: 13.464 min Scan# 1957

Delta R.T. 0.006 min

Lab File: VN088381.D

Acq: 01 Dec 2025 14:33

Instrument :

MSVOA_N

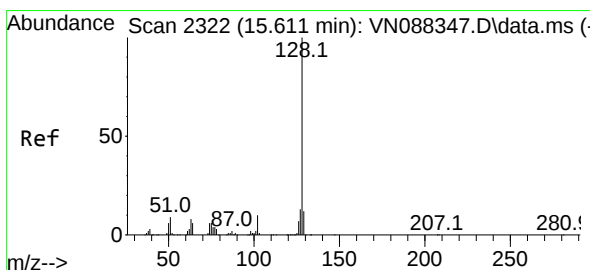
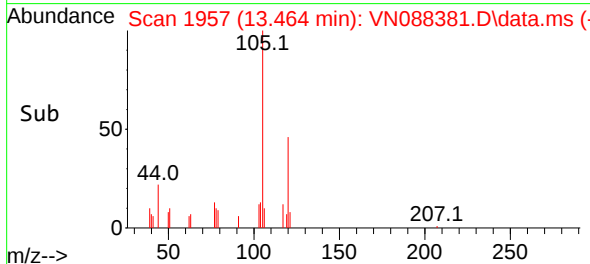
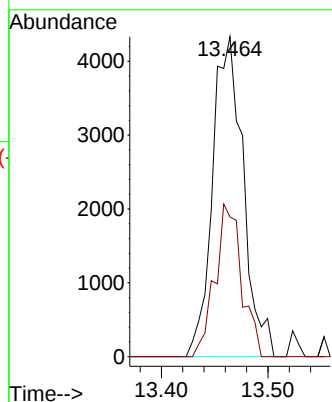
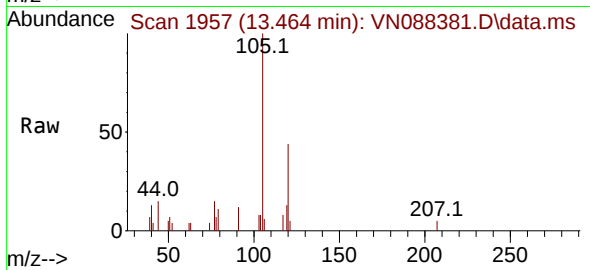
ClientSampleId :

Tgt Ion:105 Resp: 8667

Ion Ratio Lower Upper

105 100

120 41.2 22.1 66.1



#95

Naphthalene

Concen: 0.236 ug/l

RT: 15.611 min Scan# 2322

Delta R.T. -0.000 min

Lab File: VN088381.D

Acq: 01 Dec 2025 14:33

Tgt Ion:128 Resp: 3529

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 5.9 9.0 13.6#

