

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
 Data File : VN088189.D
 Acq On : 31 Oct 2025 15:23
 Operator : JC\MD
 Sample : Q3501-01
 Misc : 2.56g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 461

Quant Time: Nov 01 00:35:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 25 00:15:22 2025
 Response via : Initial Calibration

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

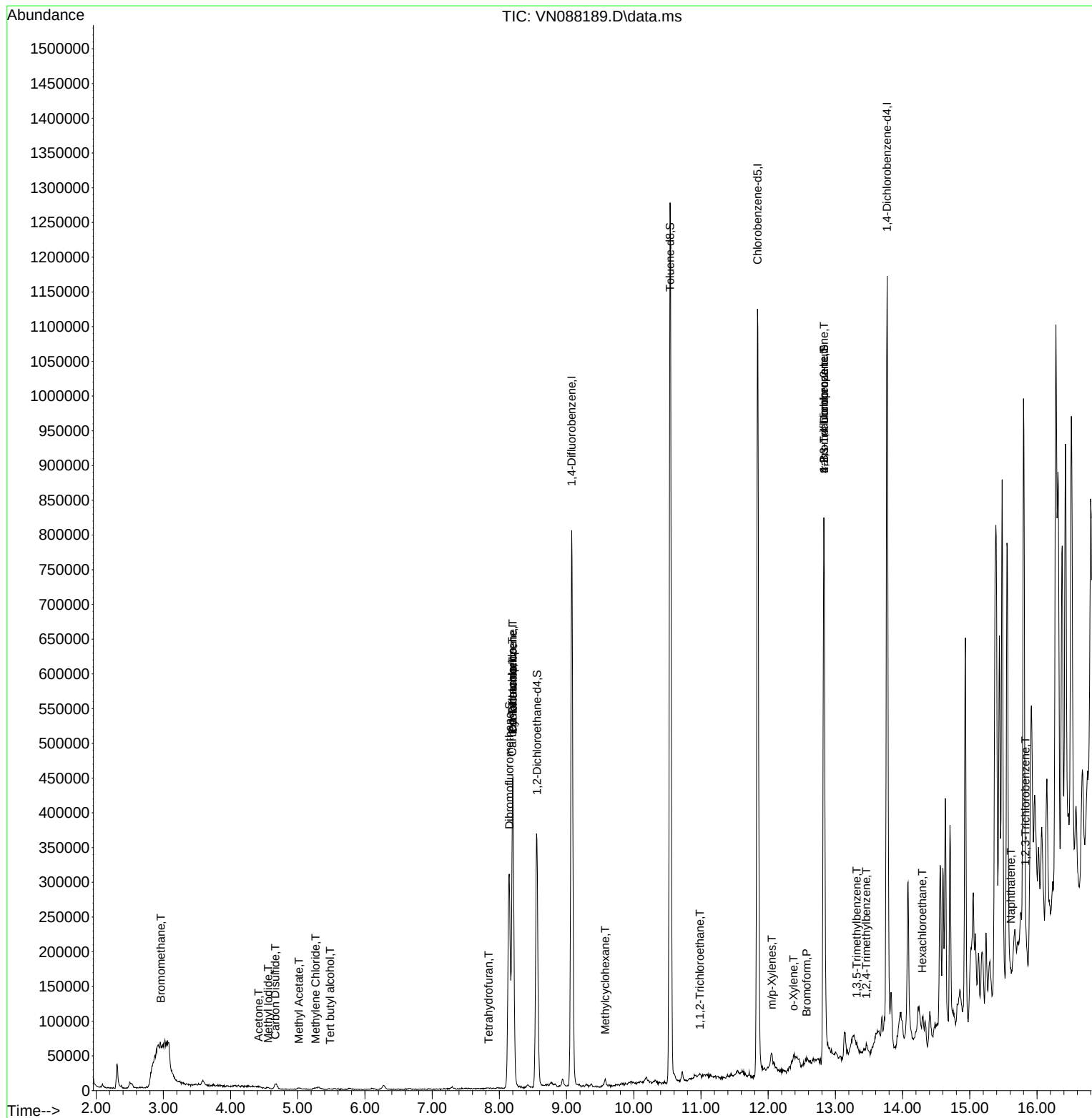
Internal Standards						
1) Pentafluorobenzene	8.200	168	291593	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.077	114	667986	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	607135	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	279970	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	310303	61.541	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 123.080%		
35) Dibromofluoromethane	8.147	113	226191	50.404	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 100.800%		
50) Toluene-d8	10.541	98	853731	49.373	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 98.740%		
62) 4-Bromofluorobenzene	12.829	95	311164	50.955	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 101.900%		
Target Compounds						
					Qvalue	
5) Bromomethane	2.965	94	649	0.257	ug/l #	10
10) Methyl Iodide	4.559	142	2964	5.004	ug/l #	68
11) Tert butyl alcohol	5.483	59	433	0.498	ug/l #	71
16) Acetone	4.418	43	1035	0.409	ug/l #	80
17) Carbon Disulfide	4.665	76	17818	1.599	ug/l	97
18) Methyl Acetate	5.018	43	5085	0.981	ug/l #	78
20) Methylene Chloride	5.265	84	385	0.869	ug/l #	66
29) Tetrahydrofuran	7.841	42	504	0.232	ug/l #	55
31) Cyclohexane	8.200	56	11412	1.617	ug/l #	36
36) 1,1-Dichloropropene	8.200	75	28573	4.361	ug/l #	53
38) Carbon Tetrachloride	8.194	117	33743	4.986	ug/l #	14
39) Methylcyclohexane	9.577	83	4034	0.479	ug/l #	82
55) 1,1,2-Trichloroethane	10.982	97	1599	0.343	ug/l #	26
68) m/p-Xylenes	12.053	106	4225	0.466	ug/l	96
69) o-Xylene	12.376	106	2511	0.292	ug/l	86
71) Bromoform	12.570	173	690	0.205	ug/l #	87
76) 1,2,3-Trichloropropane	12.829	75	188638	29.470	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.317	105	4354	0.243	ug/l	92
81) trans-1,4-Dichloro-2-b...	12.829	75	187749	81.821	ug/l #	1
84) 1,2,4-Trimethylbenzene	13.459	105	13595	0.758	ug/l	88
90) Hexachloroethane	14.294	117	1149	0.314	ug/l #	22
95) Naphthalene	15.611	128	13758	0.740	ug/l #	93
96) 1,2,3-Trichlorobenzene	15.829	180	2251	0.433	ug/l #	13

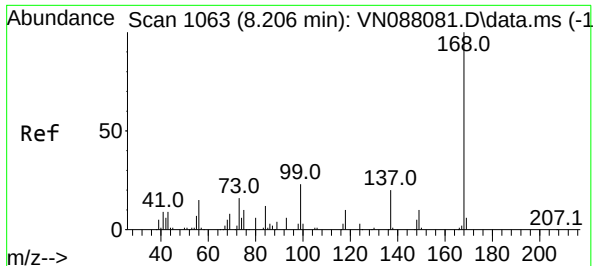
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088189.D
Acq On : 31 Oct 2025 15:23
Operator : JC\MD
Sample : Q3501-01
Misc : 2.56g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
461

Quant Time: Nov 01 00:35:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 25 00:15:22 2025
Response via : Initial Calibration

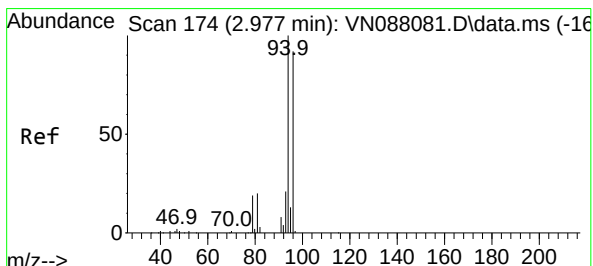
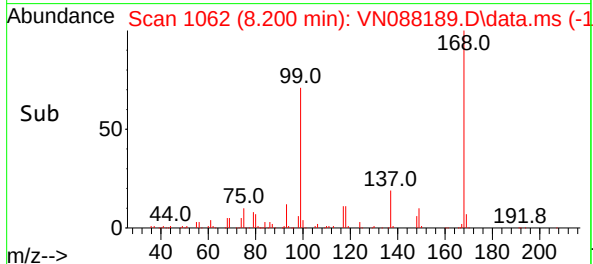
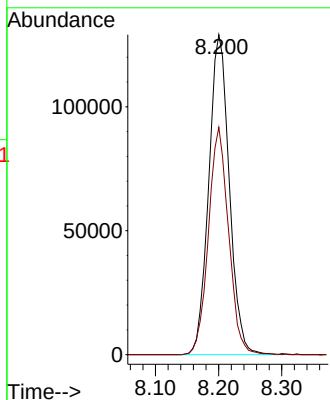
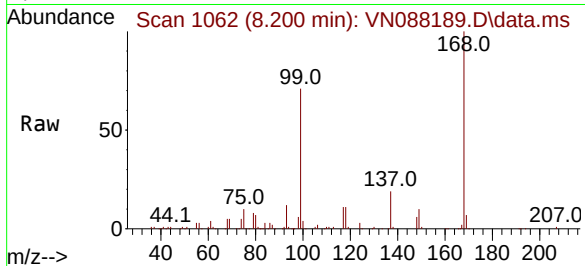




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.200 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN088189.D
Acq: 31 Oct 2025 15:23

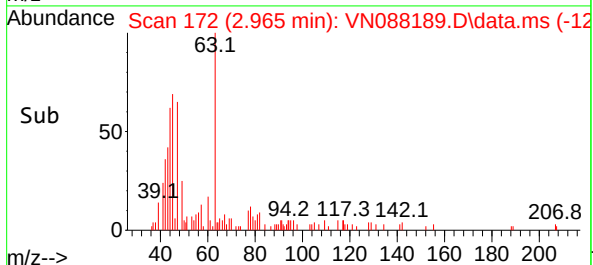
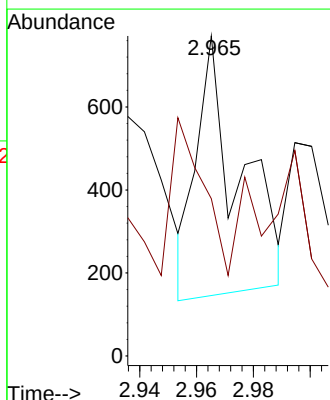
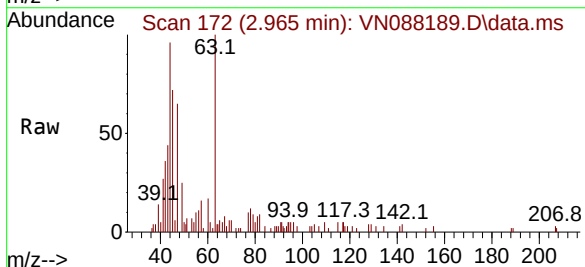
Instrument :
MSVOA_N
ClientSampleId :
461

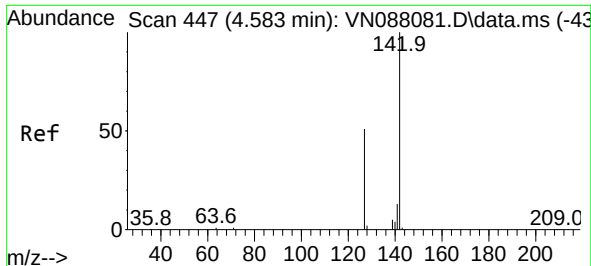
Tgt Ion:168 Resp: 291593
Ion Ratio Lower Upper
168 100
99 71.0 57.2 85.8



#5
Bromomethane
Concen: 0.257 ug/l
RT: 2.965 min Scan# 172
Delta R.T. -0.006 min
Lab File: VN088189.D
Acq: 31 Oct 2025 15:23

Tgt Ion: 94 Resp: 649
Ion Ratio Lower Upper
94 100
96 7.4 75.4 113.2#

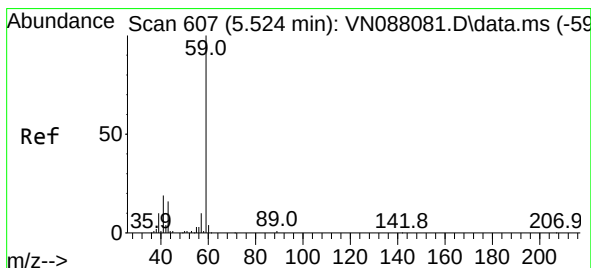
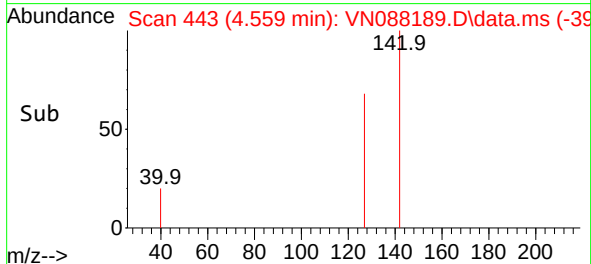
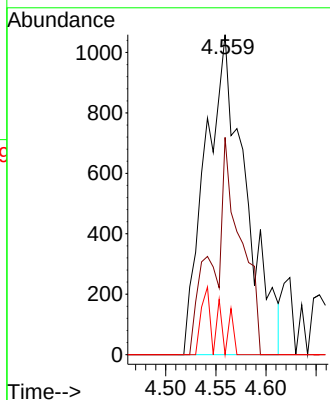
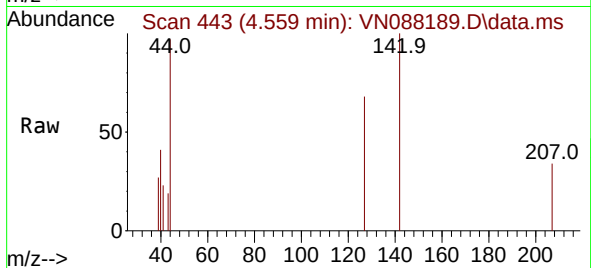




#10
Methyl Iodide
Concen: 5.004 ug/l
RT: 4.559 min Scan# 441
Delta R.T. -0.018 min
Lab File: VN088189.D
Acq: 31 Oct 2025 15:23

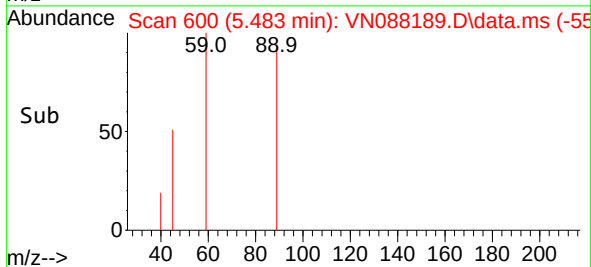
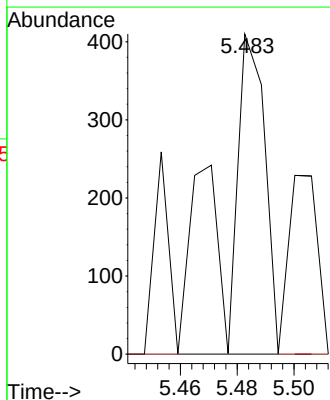
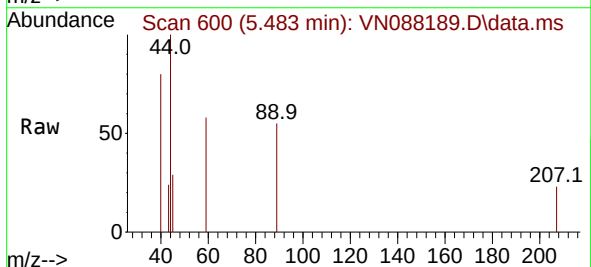
Instrument :
MSVOA_N
ClientSampleId :
461

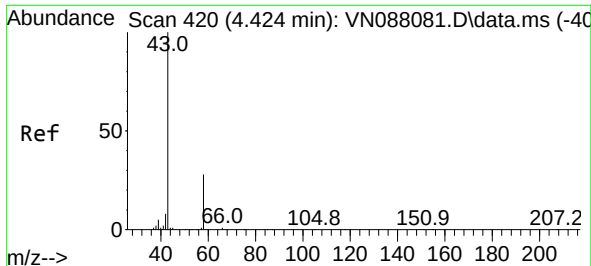
Tgt Ion:142 Resp: 2964
Ion Ratio Lower Upper
142 100
127 67.9 38.0 57.0#
141 0.0 12.0 18.0#



#11
Tert butyl alcohol
Concen: 0.498 ug/l
RT: 5.483 min Scan# 600
Delta R.T. -0.035 min
Lab File: VN088189.D
Acq: 31 Oct 2025 15:23

Tgt Ion: 59 Resp: 433
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#

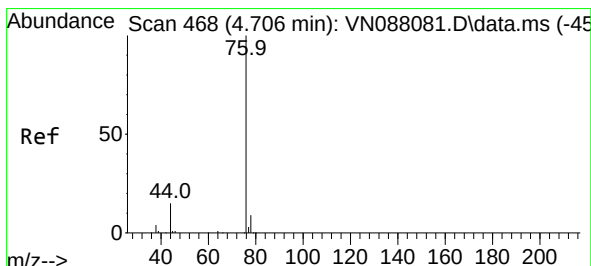
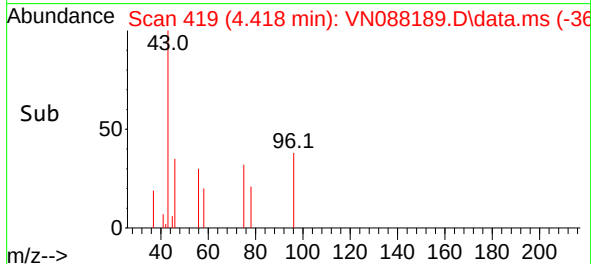
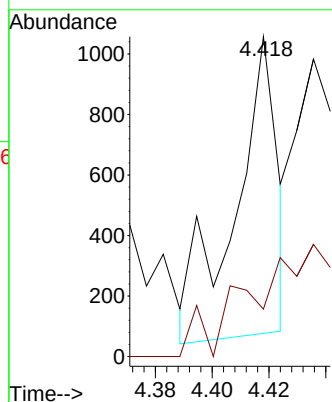
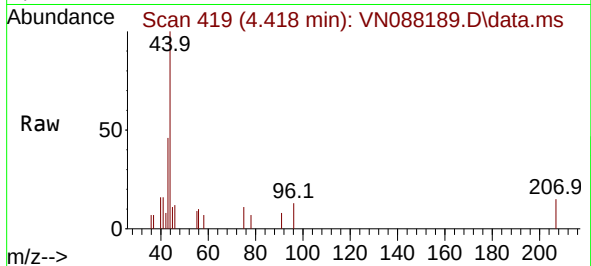




#16
Acetone
Concen: 0.409 ug/l
RT: 4.418 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN088189.D
Acq: 31 Oct 2025 15:23

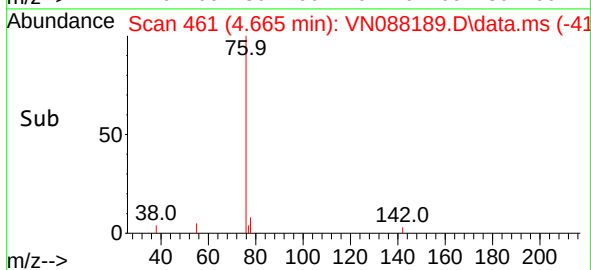
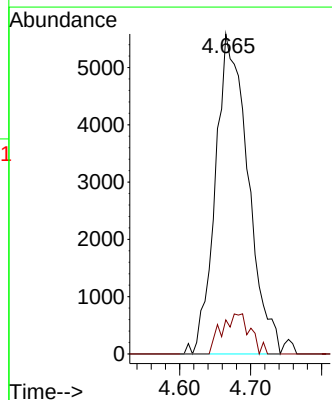
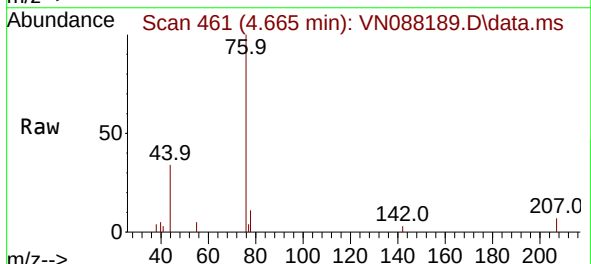
Instrument :
MSVOA_N
ClientSampleId :
461

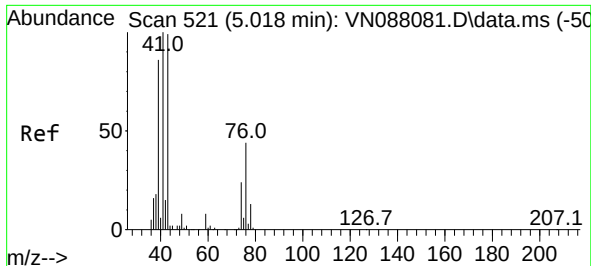
Tgt Ion: 43 Resp: 1035
Ion Ratio Lower Upper
43 100
58 17.4 22.6 33.8#



#17
Carbon Disulfide
Concen: 1.599 ug/l
RT: 4.665 min Scan# 461
Delta R.T. -0.035 min
Lab File: VN088189.D
Acq: 31 Oct 2025 15:23

Tgt Ion: 76 Resp: 17818
Ion Ratio Lower Upper
76 100
78 10.7 7.6 11.4

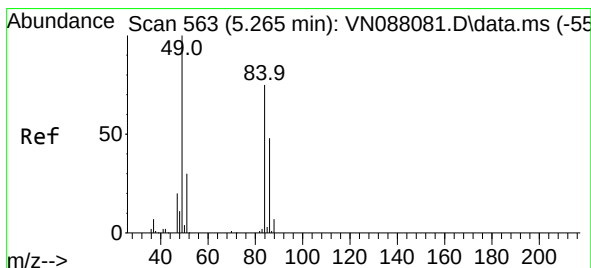
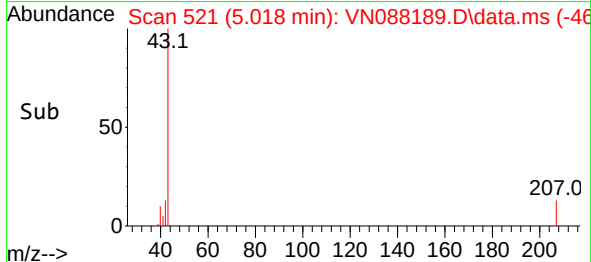
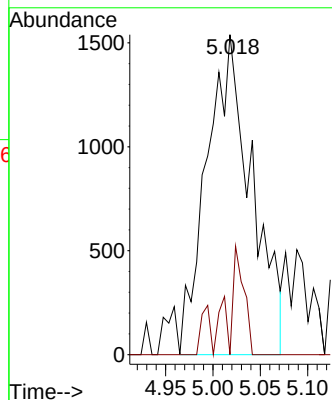
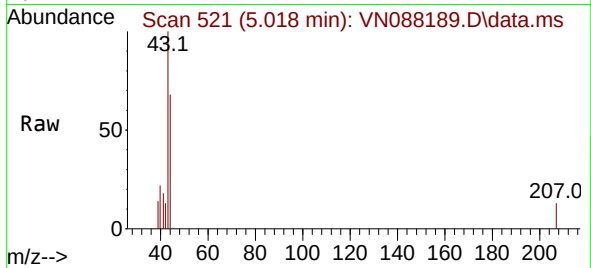




#18
Methyl Acetate
Concen: 0.981 ug/l
RT: 5.018 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN088189.D
Acq: 31 Oct 2025 15:23

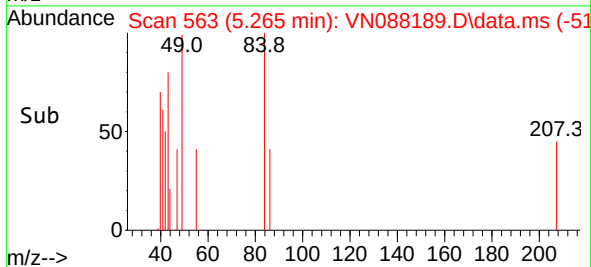
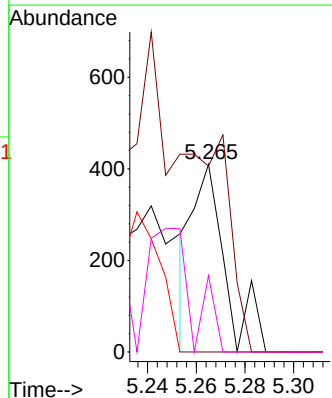
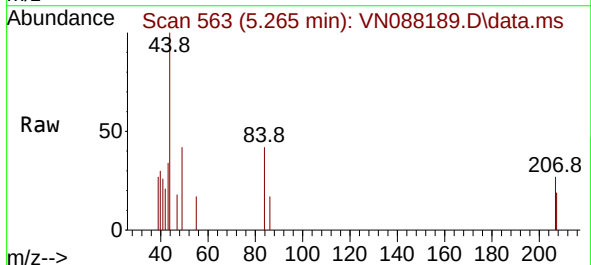
Instrument :
MSVOA_N
ClientSampleId :
461

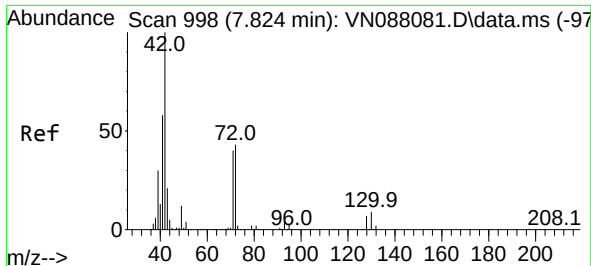
Tgt Ion: 43 Resp: 5085
Ion Ratio Lower Upper
43 100
74 11.3 17.6 26.4#



#20
Methylene Chloride
Concen: 0.869 ug/l
RT: 5.265 min Scan# 563
Delta R.T. 0.000 min
Lab File: VN088189.D
Acq: 31 Oct 2025 15:23

Tgt Ion: 84 Resp: 385
Ion Ratio Lower Upper
84 100
49 99.0 103.4 155.2#
51 0.0 33.8 50.8#
86 40.7 49.6 74.4#

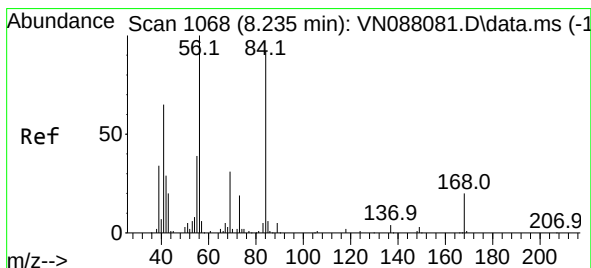
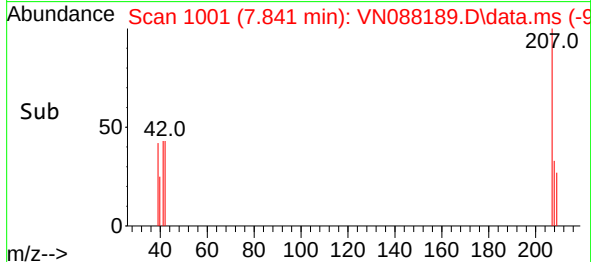
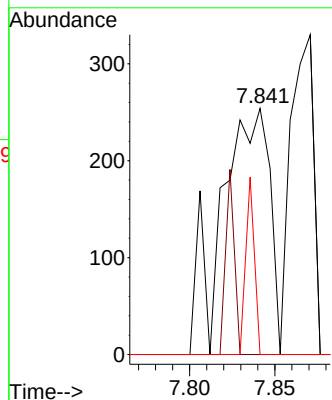
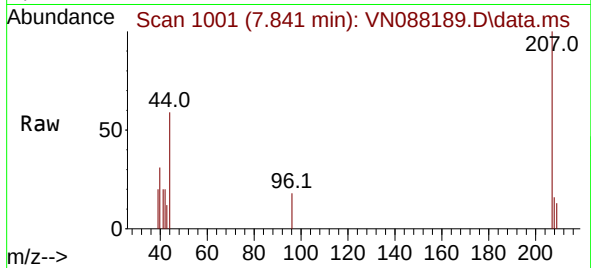




#29
Tetrahydrofuran
Concen: 0.232 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.018 min
Lab File: VN088189.D
Acq: 31 Oct 2025 15:23

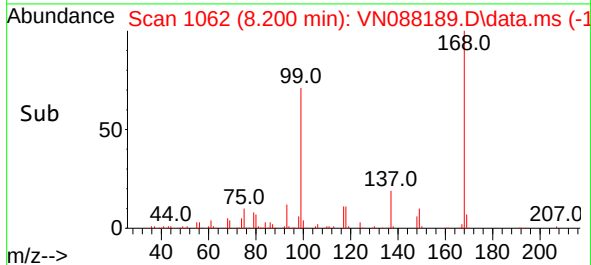
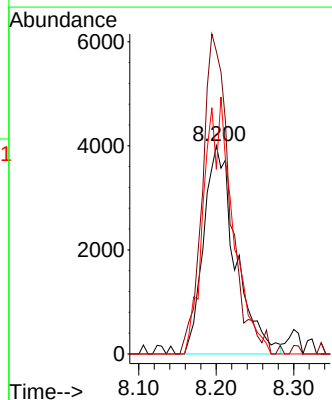
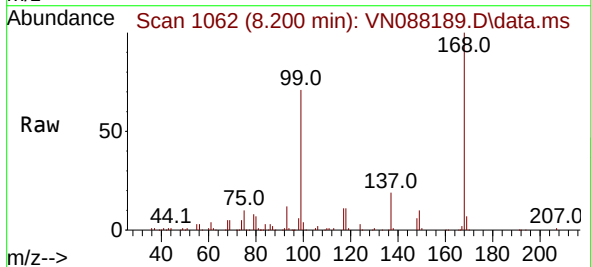
Instrument :
MSVOA_N
ClientSampleId :
461

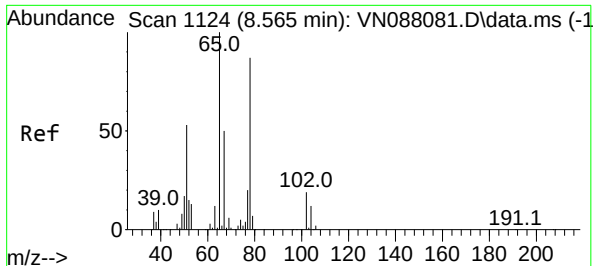
Tgt Ion: 42 Resp: 504
Ion Ratio Lower Upper
42 100
72 13.3 33.7 50.5#
71 12.9 31.9 47.9#



#31
Cyclohexane
Concen: 1.617 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.035 min
Lab File: VN088189.D
Acq: 31 Oct 2025 15:23

Tgt Ion: 56 Resp: 11412
Ion Ratio Lower Upper
56 100
69 145.4 23.7 35.5#
84 88.7 64.7 97.1

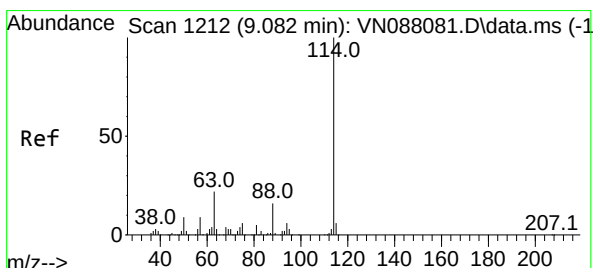
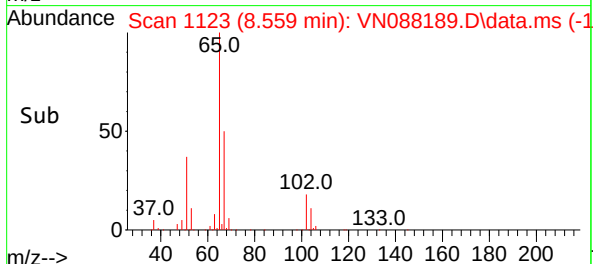
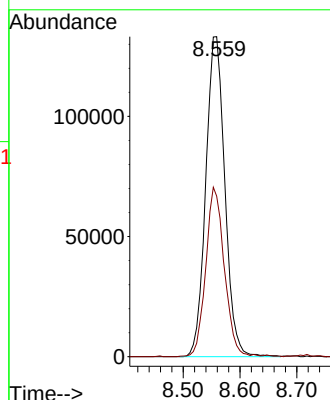
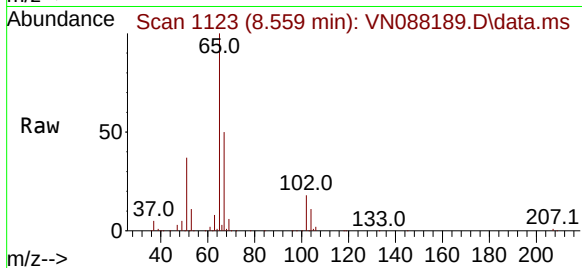




#33
 1,2-Dichloroethane-d4
 Concen: 61.541 ug/l
 RT: 8.559 min Scan# 1123
 Delta R.T. -0.000 min
 Lab File: VN088189.D
 Acq: 31 Oct 2025 15:23

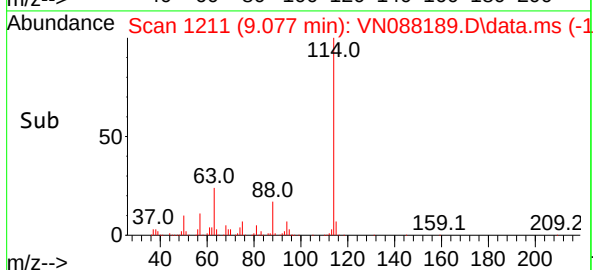
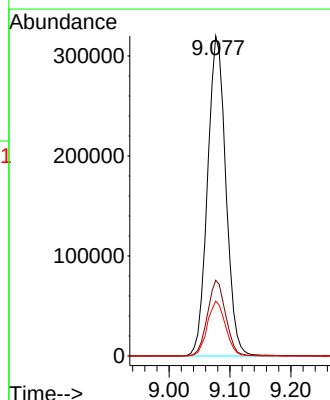
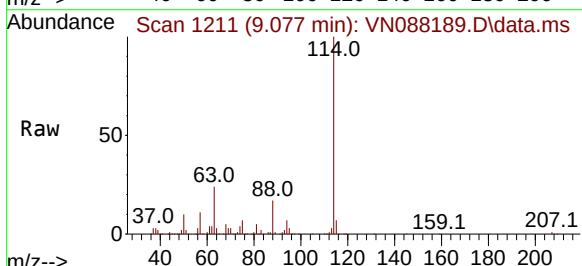
Instrument :
 MSVOA_N
 ClientSampleId :
 461

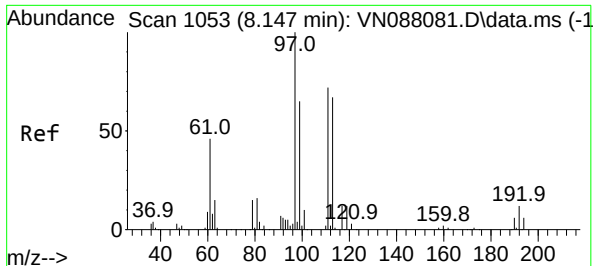
Tgt Ion: 65 Resp: 310303
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 100.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.077 min Scan# 1211
 Delta R.T. -0.006 min
 Lab File: VN088189.D
 Acq: 31 Oct 2025 15:23

Tgt Ion: 114 Resp: 667986
 Ion Ratio Lower Upper
 114 100
 63 23.7 0.0 45.2
 88 17.1 0.0 33.4





#35

Dibromofluoromethane

Concen: 50.404 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088189.D

Acq: 31 Oct 2025 15:23

Instrument :

MSVOA_N

ClientSampleId :

461

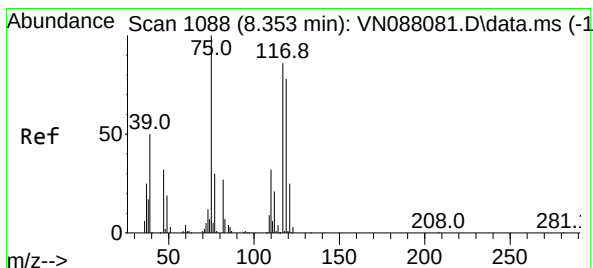
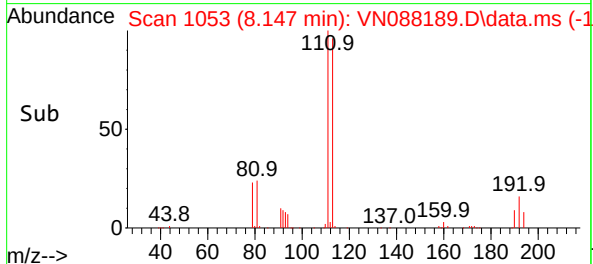
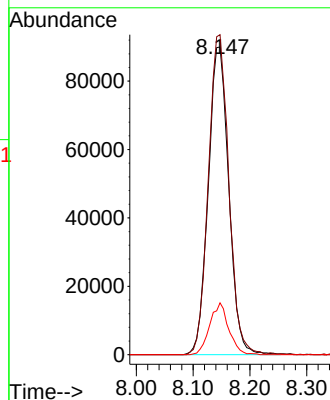
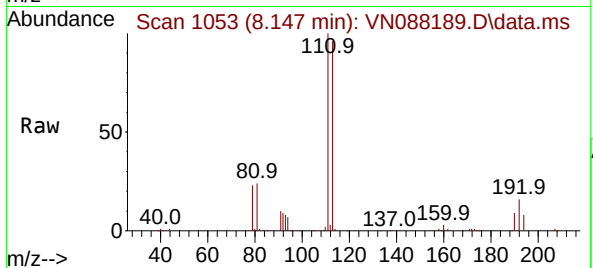
Tgt Ion:113 Resp: 226191

Ion Ratio Lower Upper

113 100

111 103.2 82.8 124.2

192 15.5 12.8 19.2



#36

1,1-Dichloropropene

Concen: 4.361 ug/l

RT: 8.200 min Scan# 1062

Delta R.T. -0.153 min

Lab File: VN088189.D

Acq: 31 Oct 2025 15:23

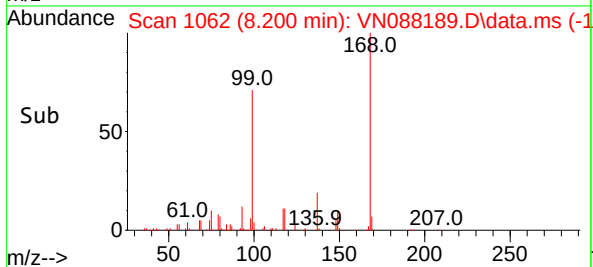
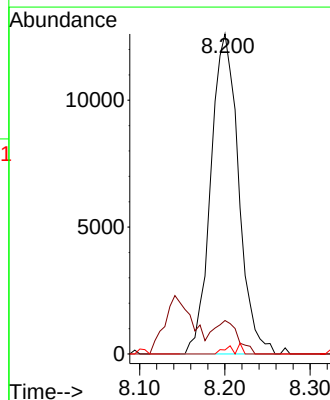
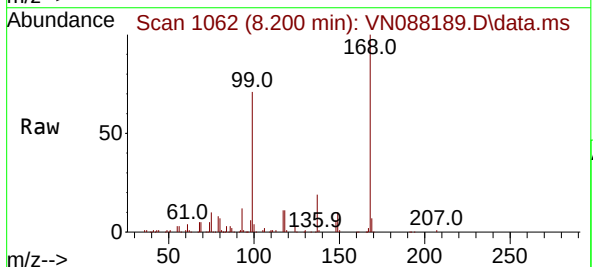
Tgt Ion: 75 Resp: 28573

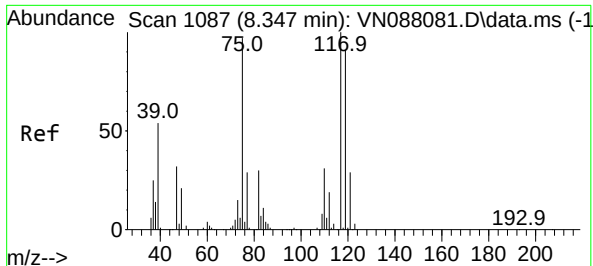
Ion Ratio Lower Upper

75 100

110 9.4 15.9 47.6#

77 0.8 24.4 36.6#

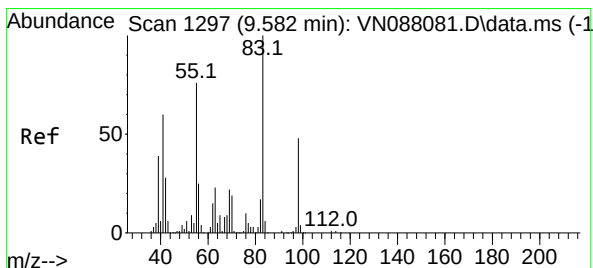
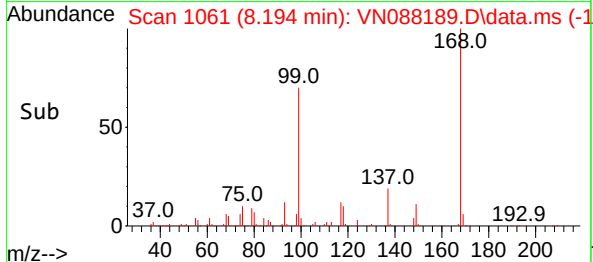
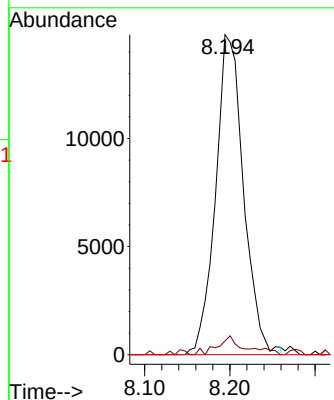
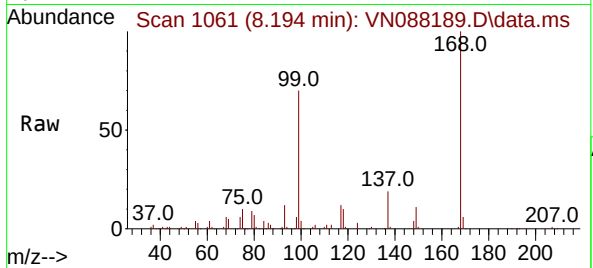




#38
Carbon Tetrachloride
Concen: 4.986 ug/l
RT: 8.194 min Scan# 1061
Delta R.T. -0.147 min
Lab File: VN088189.D
Acq: 31 Oct 2025 15:23

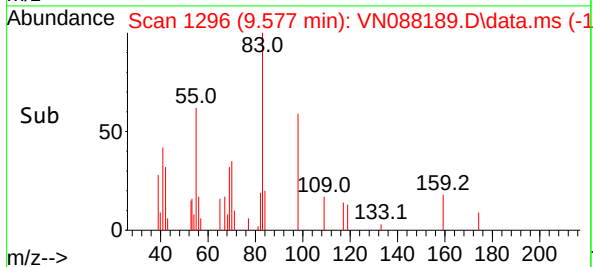
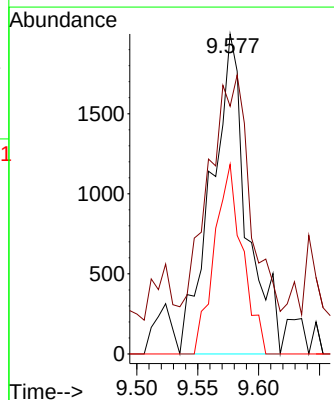
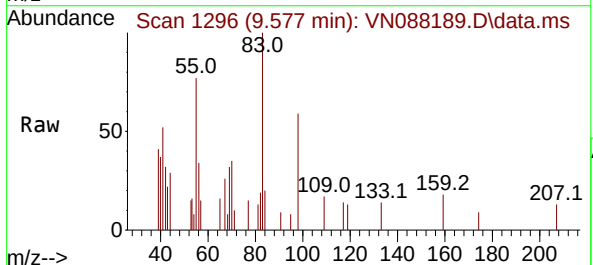
Instrument :
MSVOA_N
ClientSampleId :
461

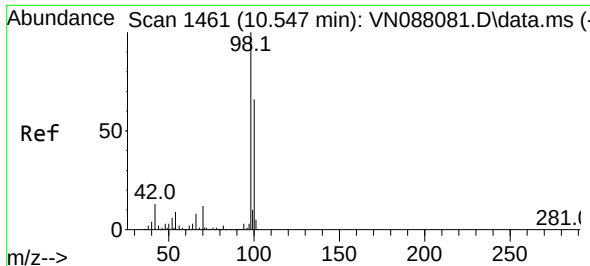
Tgt Ion:117 Resp: 33743
Ion Ratio Lower Upper
117 100
119 4.3 79.0 118.6#
121 0.0 25.0 37.6#



#39
Methylcyclohexane
Concen: 0.479 ug/l
RT: 9.577 min Scan# 1296
Delta R.T. -0.006 min
Lab File: VN088189.D
Acq: 31 Oct 2025 15:23

Tgt Ion: 83 Resp: 4034
Ion Ratio Lower Upper
83 100
55 64.1 64.6 96.8#
98 59.3 38.4 57.6#

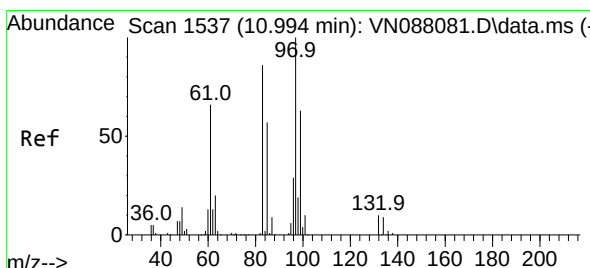
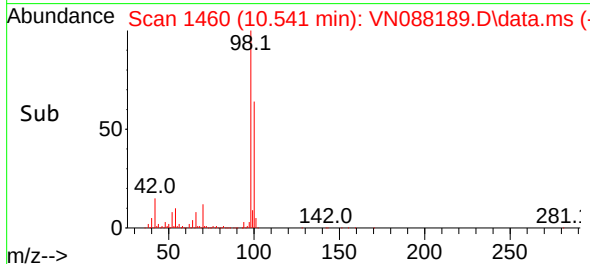
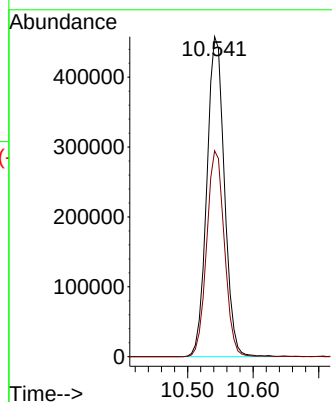
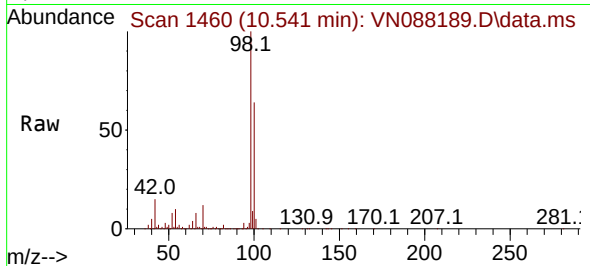




#50
Toluene-d8
Concen: 49.373 ug/l
RT: 10.541 min Scan# 1461
Delta R.T. -0.006 min
Lab File: VN088189.D
Acq: 31 Oct 2025 15:23

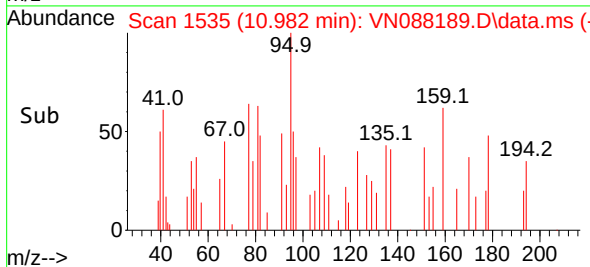
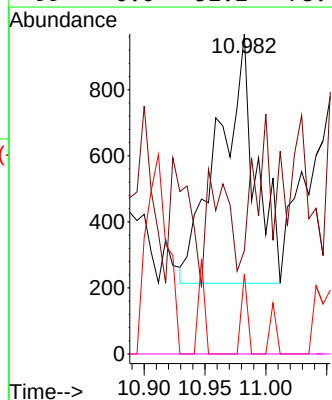
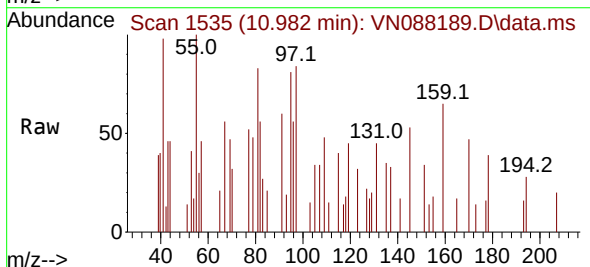
Instrument :
MSVOA_N
ClientSampleId :
461

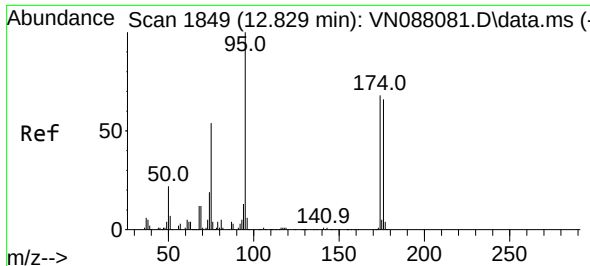
Tgt Ion: 98 Resp: 853731
Ion Ratio Lower Upper
98 100
100 64.9 52.8 79.2



#55
1,1,2-Trichloroethane
Concen: 0.343 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. -0.012 min
Lab File: VN088189.D
Acq: 31 Oct 2025 15:23

Tgt Ion: 97 Resp: 1599
Ion Ratio Lower Upper
97 100
83 0.0 68.2 102.4#
85 32.1 45.5 68.3#
99 0.0 52.2 78.4#

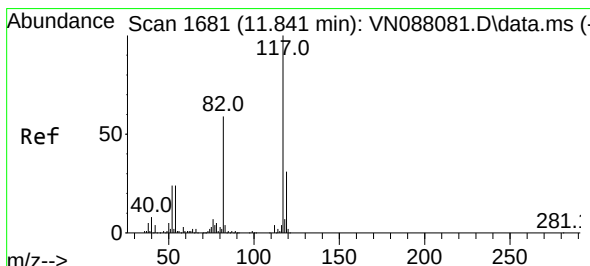
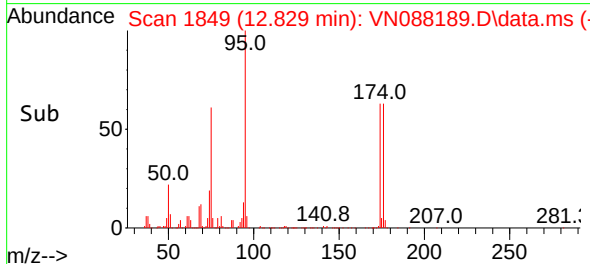
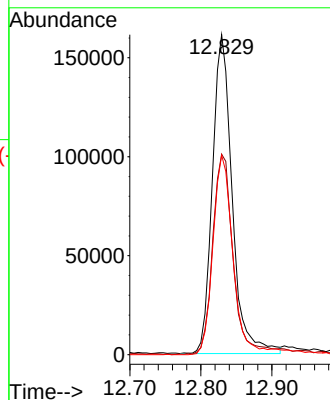
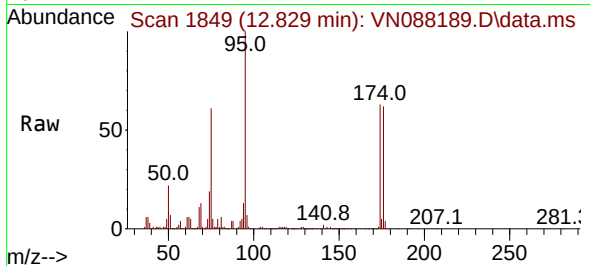




#62
4-Bromofluorobenzene
Concen: 50.955 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088189.D
Acq: 31 Oct 2025 15:23

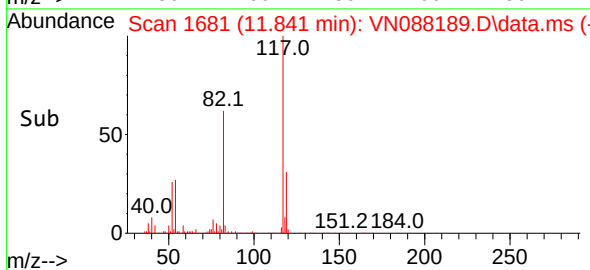
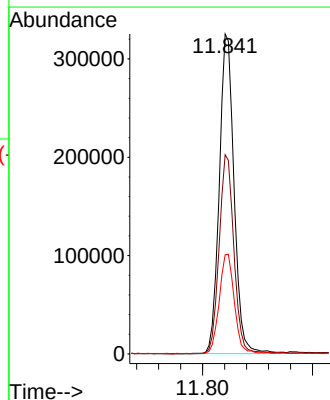
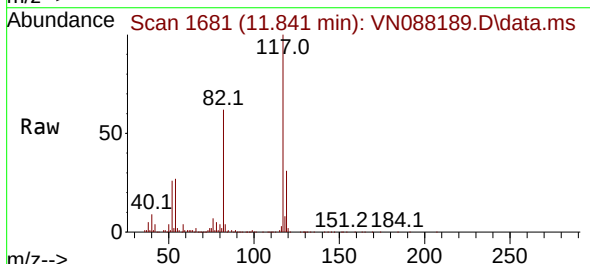
Instrument :
MSVOA_N
ClientSampleId :
461

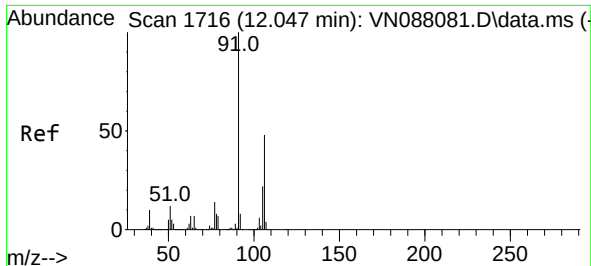
Tgt Ion: 95 Resp: 311164
Ion Ratio Lower Upper
95 100
174 66.4 0.0 138.4
176 65.8 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VN088189.D
Acq: 31 Oct 2025 15:23

Tgt Ion: 117 Resp: 607135
Ion Ratio Lower Upper
117 100
82 62.3 47.4 71.2
119 30.9 24.3 36.5

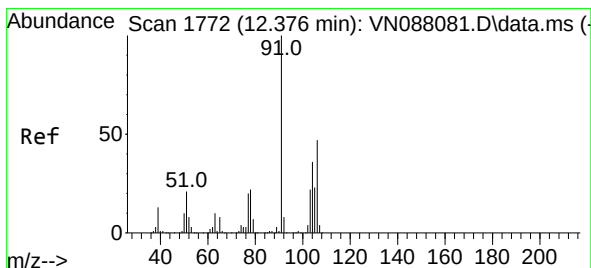
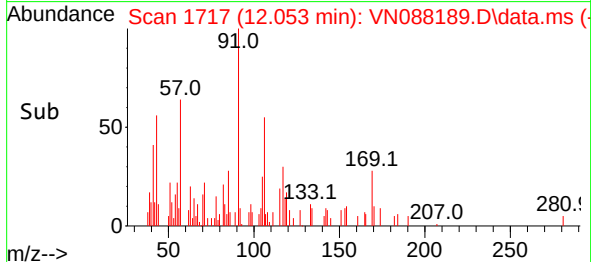
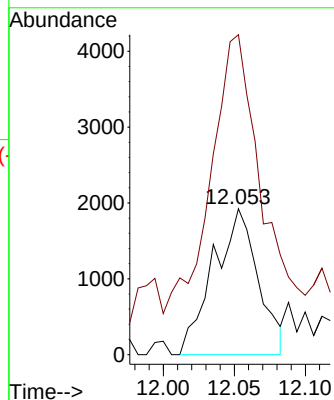
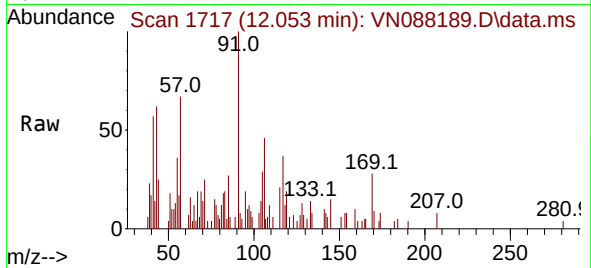




#68
m/p-Xylenes
Concen: 0.466 ug/l
RT: 12.053 min Scan# 1717
Delta R.T. 0.006 min
Lab File: VN088189.D
Acq: 31 Oct 2025 15:23

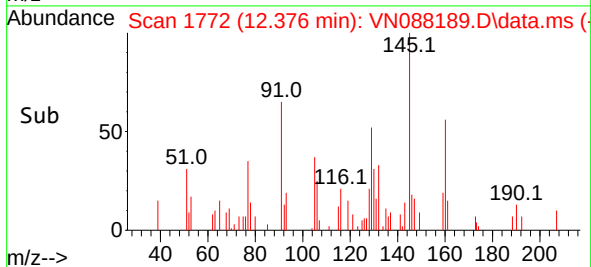
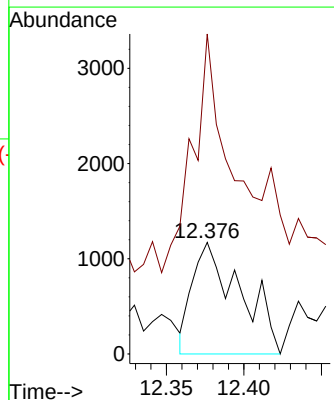
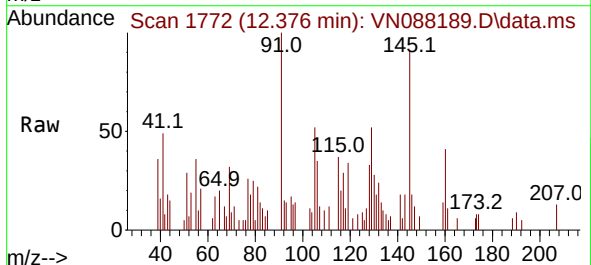
Instrument :
MSVOA_N
ClientSampleId :
461

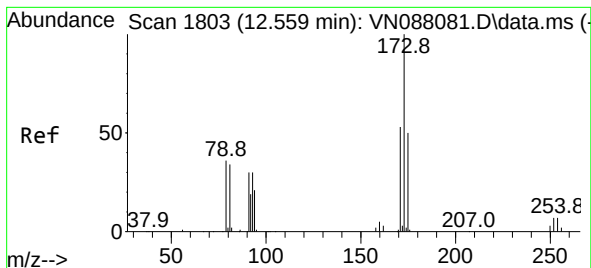
Tgt Ion:106 Resp: 4225
Ion Ratio Lower Upper
106 100
91 205.2 169.3 253.9



#69
o-Xylene
Concen: 0.292 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VN088189.D
Acq: 31 Oct 2025 15:23

Tgt Ion:106 Resp: 2511
Ion Ratio Lower Upper
106 100
91 245.2 111.4 334.2





#71

Bromoform

Concen: 0.205 ug/l

RT: 12.570 min Scan# 11

Delta R.T. 0.012 min

Lab File: VN088189.D

Acq: 31 Oct 2025 15:23

Instrument :

MSVOA_N

ClientSampleId :

461

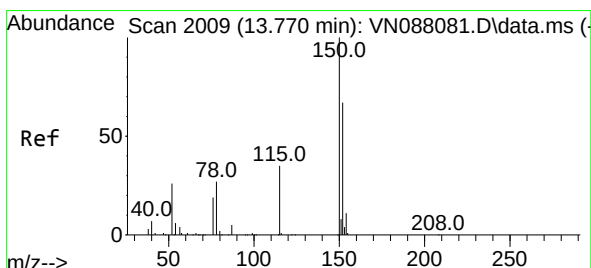
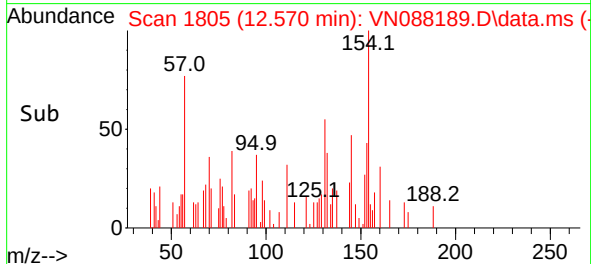
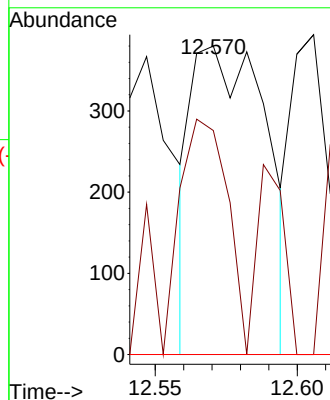
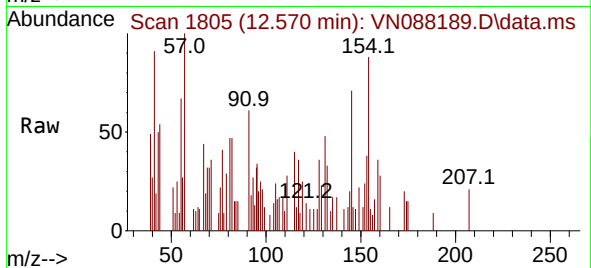
Tgt Ion:173 Resp: 690

Ion Ratio Lower Upper

173 100

175 58.4 24.9 74.6

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. 0.006 min

Lab File: VN088189.D

Acq: 31 Oct 2025 15:23

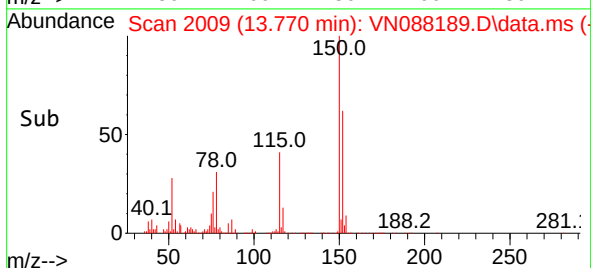
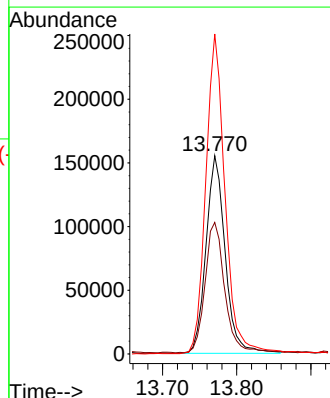
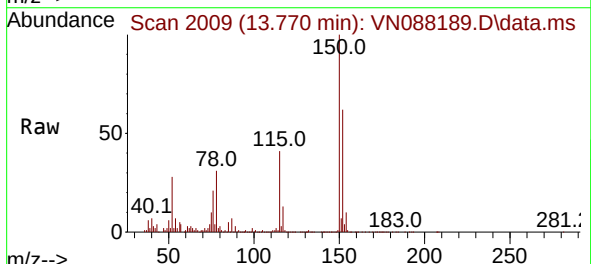
Tgt Ion:152 Resp: 279970

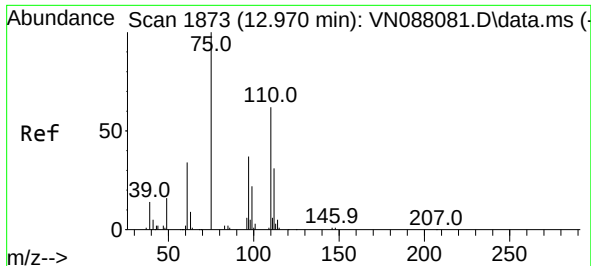
Ion Ratio Lower Upper

152 100

115 67.6 32.3 96.8

150 162.2 0.0 351.0

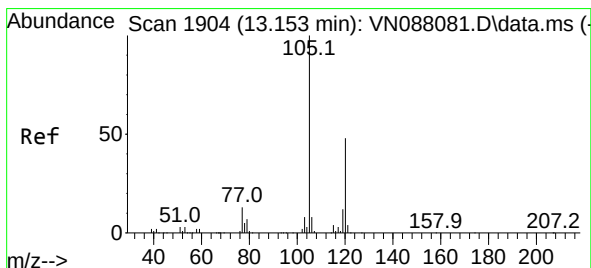
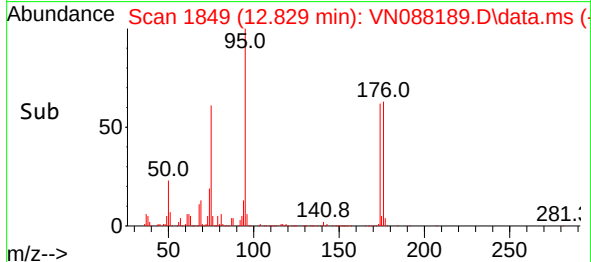
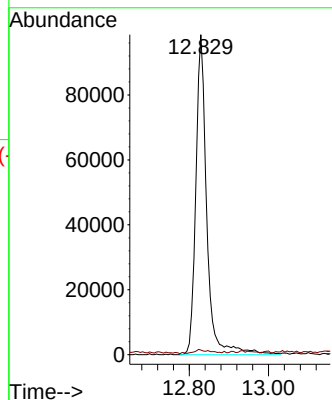
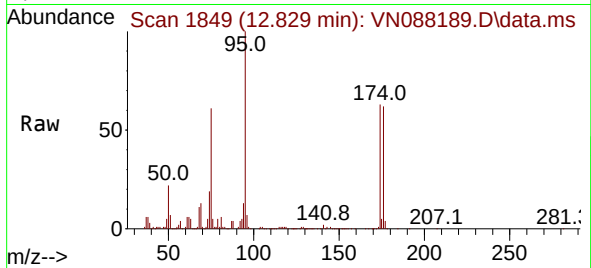




#76
1,2,3-Trichloropropane
Concen: 29.470 ug/l
RT: 12.829 min Scan# 11
Delta R.T. -0.141 min
Lab File: VN088189.D
Acq: 31 Oct 2025 15:23

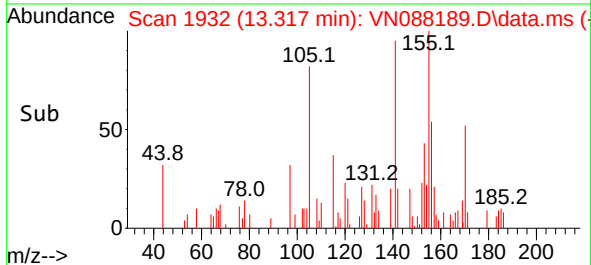
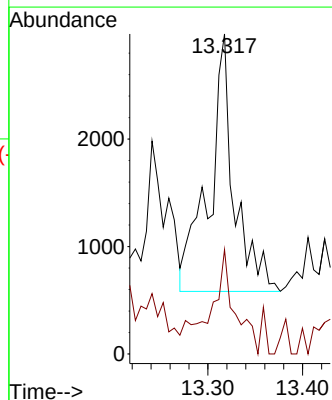
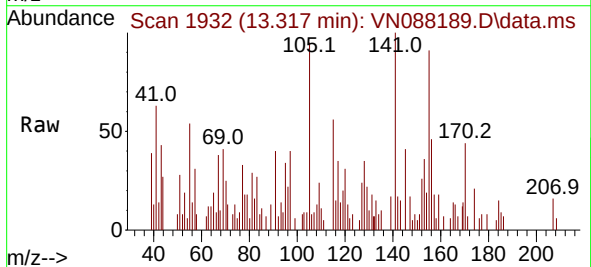
Instrument :
MSVOA_N
ClientSampleId :
461

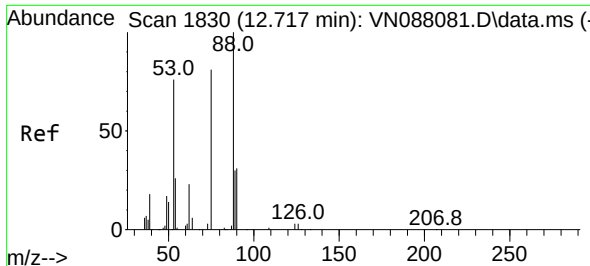
Tgt Ion: 75 Resp: 188638
Ion Ratio Lower Upper
75 100
77 1.5 89.1 267.4#



#80
1,3,5-Trimethylbenzene
Concen: 0.243 ug/l
RT: 13.317 min Scan# 1932
Delta R.T. 0.165 min
Lab File: VN088189.D
Acq: 31 Oct 2025 15:23

Tgt Ion:105 Resp: 4354
Ion Ratio Lower Upper
105 100
120 41.1 23.2 69.6

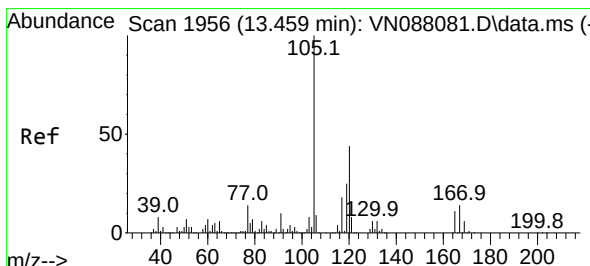
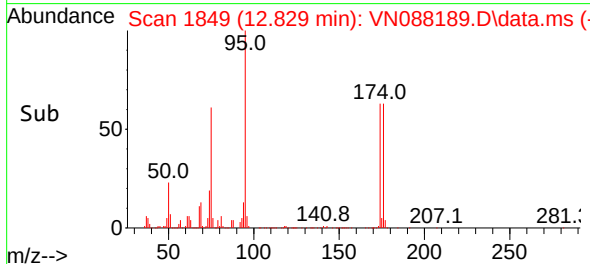
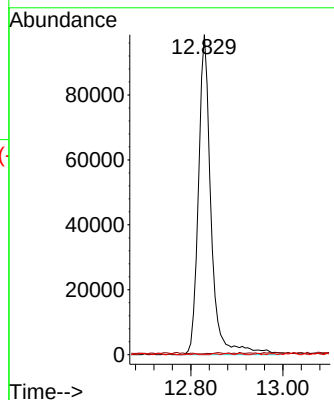
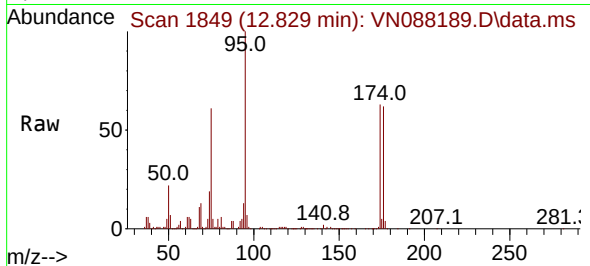




#81
 trans-1,4-Dichloro-2-butene
 Concen: 81.821 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. 0.112 min
 Lab File: VN088189.D
 Acq: 31 Oct 2025 15:23

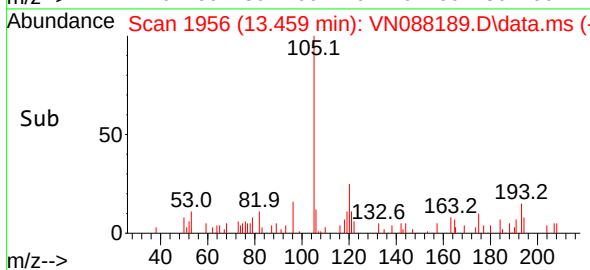
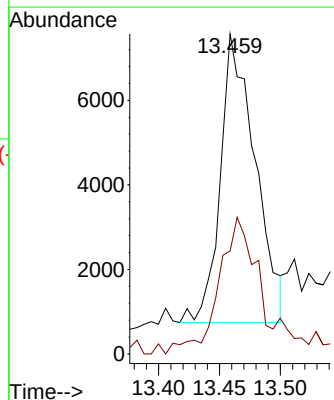
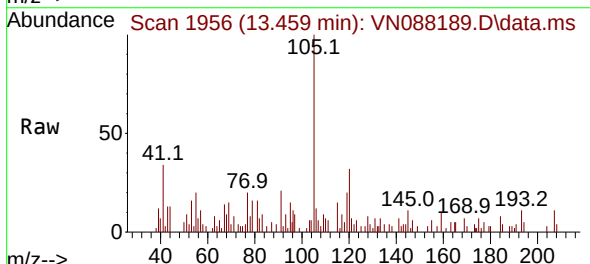
Instrument :
 MSVOA_N
 ClientSampleId :
 461

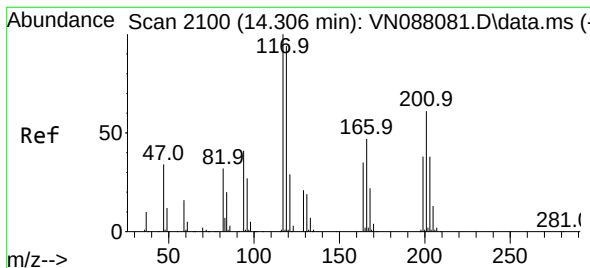
Tgt Ion: 75 Resp: 187749
 Ion Ratio Lower Upper
 75 100
 53 0.0 101.8 152.6#
 89 0.1 35.6 53.4#



#84
 1,2,4-Trimethylbenzene
 Concen: 0.758 ug/l
 RT: 13.459 min Scan# 1956
 Delta R.T. -0.000 min
 Lab File: VN088189.D
 Acq: 31 Oct 2025 15:23

Tgt Ion: 105 Resp: 13595
 Ion Ratio Lower Upper
 105 100
 120 51.8 22.0 66.0





#90

Hexachloroethane

Concen: 0.314 ug/l

RT: 14.294 min Scan# 2098

Delta R.T. -0.018 min

Lab File: VN088189.D

Acq: 31 Oct 2025 15:23

Instrument :

MSVOA_N

ClientSampleId :

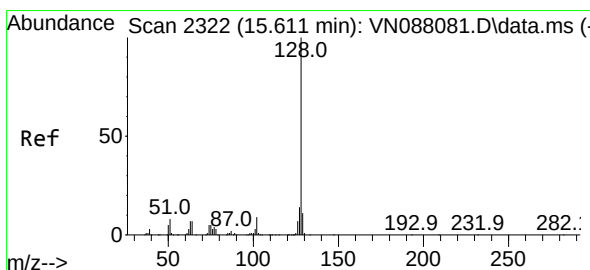
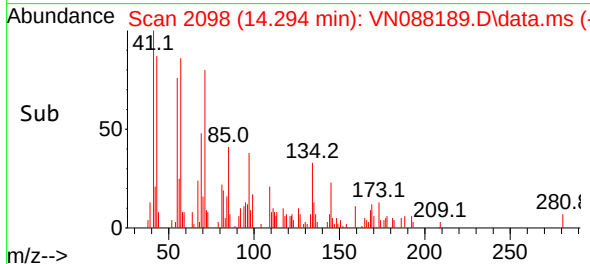
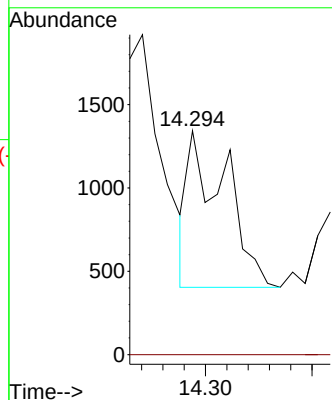
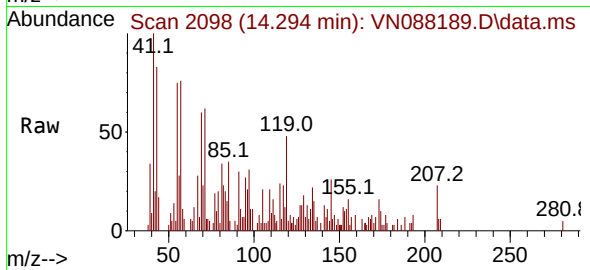
461

Tgt Ion:117 Resp: 1149

Ion Ratio Lower Upper

117 100

201 0.0 29.1 87.4#



#95

Naphthalene

Concen: 0.740 ug/l

RT: 15.611 min Scan# 2322

Delta R.T. -0.000 min

Lab File: VN088189.D

Acq: 31 Oct 2025 15:23

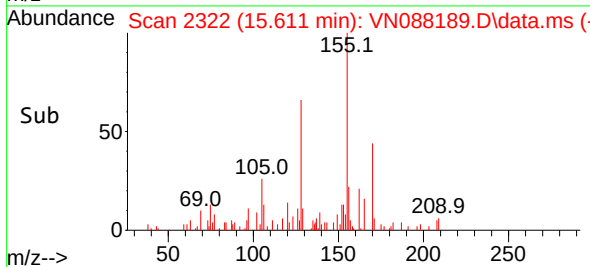
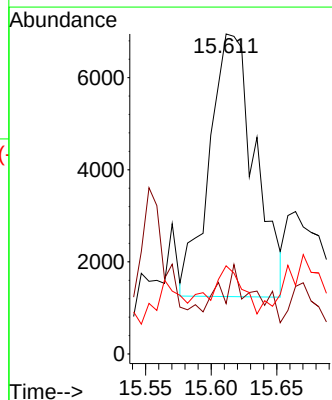
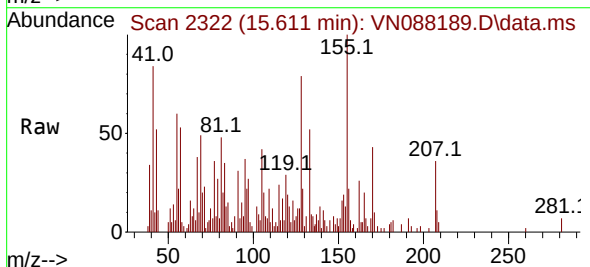
Tgt Ion:128 Resp: 13758

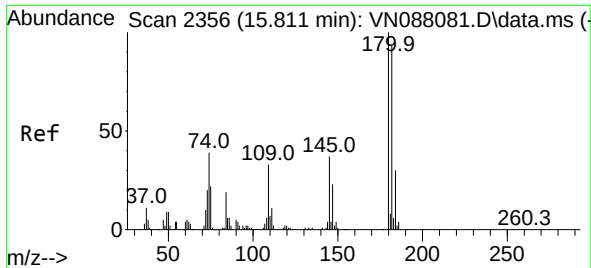
Ion Ratio Lower Upper

128 100

127 17.3 10.6 15.8#

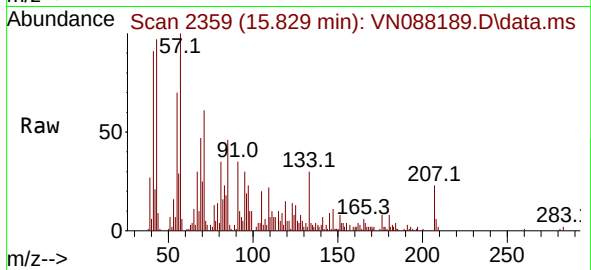
129 9.4 8.6 12.8





#96
 1,2,3-Trichlorobenzene
 Concen: 0.433 ug/l
 RT: 15.829 min Scan# 21
 Delta R.T. 0.018 min
 Lab File: VN088189.D
 Acq: 31 Oct 2025 15:23

Instrument :
 MSVOA_N
 ClientSampleId :
 461



Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	46.8	140.3#
145	0.0	17.3	52.0#

