

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
 Data File : VN088438.D
 Acq On : 04 Dec 2025 12:17
 Operator : JC\MD
 Sample : VN1204MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1204MBL01

Quant Time: Dec 05 00:12:19 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)

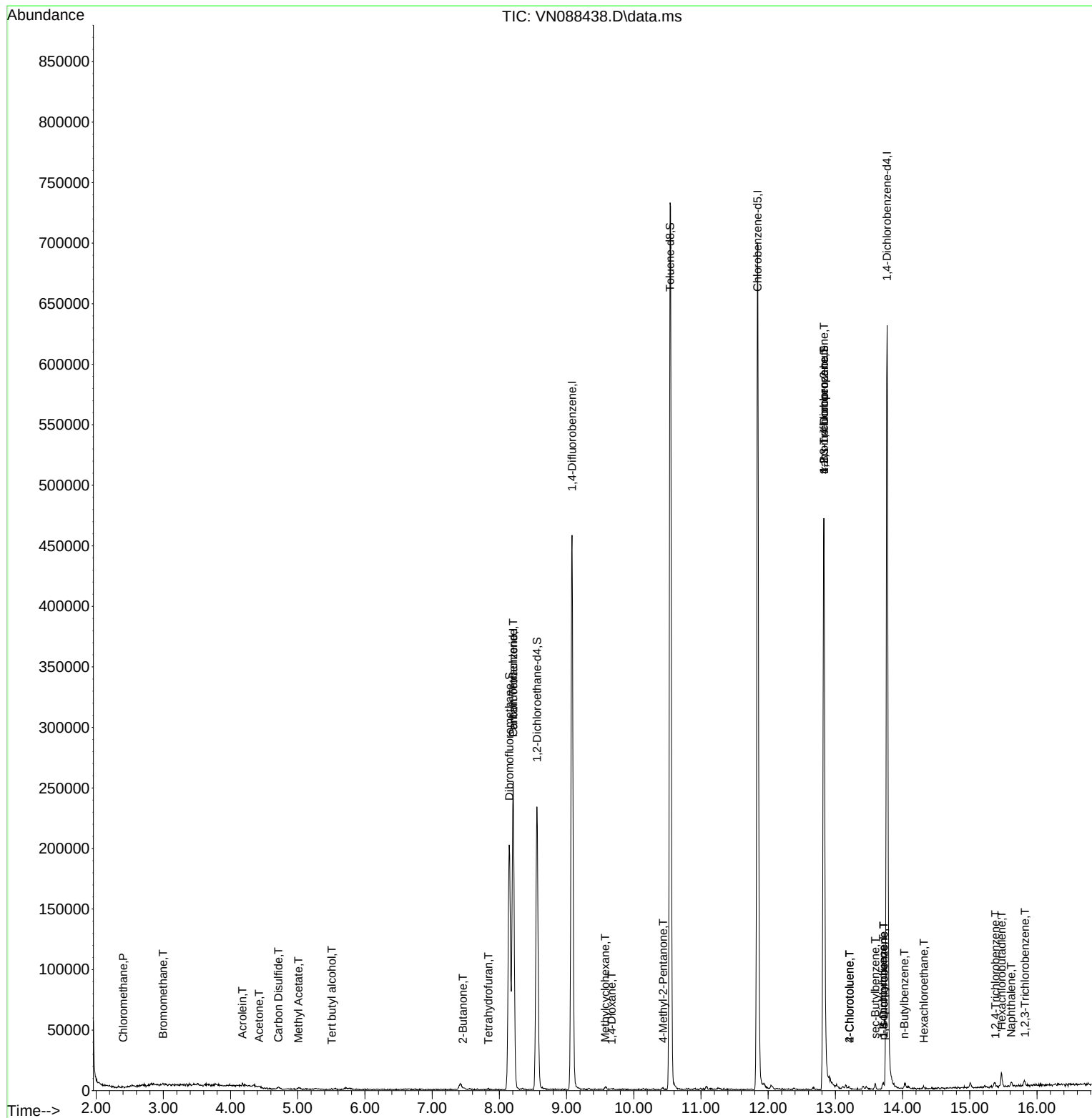
Internal Standards						
1) Pentafluorobenzene	8.206	168	158186	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	365050	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	366228	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	166667	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	197070	66.133	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 132.260%#			
35) Dibromofluoromethane	8.147	113	145632	57.567	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 115.140%			
50) Toluene-d8	10.541	98	494184	52.502	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.000%			
62) 4-Bromofluorobenzene	12.829	95	177477	54.952	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 109.900%			
Target Compounds						Qvalue
3) Chloromethane	2.401	50	518	0.203	ug/l #	43
5) Bromomethane	2.995	94	757	0.606	ug/l #	60
11) Tert butyl alcohol	5.506	59	134	0.282	ug/l #	72
13) Acrolein	4.177	56	501	1.100	ug/l	85
16) Acetone	4.424	43	1784	1.655	ug/l	90
17) Carbon Disulfide	4.712	76	3434	0.545	ug/l #	70
18) Methyl Acetate	5.012	43	1843	0.575	ug/l #	60
25) 2-Butanone	7.459	43	579	0.334	ug/l #	49
29) Tetrahydrofuran	7.835	42	331	0.266	ug/l #	53
38) Carbon Tetrachloride	8.206	117	20175	5.191	ug/l #	16
39) Methylcyclohexane	9.577	83	1059	0.254	ug/l #	59
49) 1,4-Dioxane	9.671	88	326	7.163	ug/l #	90
51) 4-Methyl-2-Pentanone	10.435	43	1604	0.347	ug/l #	76
76) 1,2,3-Trichloropropane	12.829	75	100716	25.801	ug/l #	1
79) 2-Chlorotoluene	13.212	91	1896	0.206	ug/l	79
81) trans-1,4-Dichloro-2-b...	12.829	75	100716	73.195	ug/l #	1
82) 4-Chlorotoluene	13.212	91	1896	0.207	ug/l	78
85) sec-Butylbenzene	13.594	105	3012	0.242	ug/l	91
86) p-Isopropyltoluene	13.712	119	2262	0.221	ug/l	91
87) 1,3-Dichlorobenzene	13.717	146	1365	0.249	ug/l	91
88) 1,4-Dichlorobenzene	13.717	146	1365	0.237	ug/l	91
89) n-Butylbenzene	14.029	91	3155	0.318	ug/l #	90
90) Hexachloroethane	14.317	117	497	0.266	ug/l #	58
93) 1,2,4-Trichlorobenzene	15.382	180	1909	0.622	ug/l	86
94) Hexachlorobutadiene	15.476	225	1785	1.619	ug/l	91
95) Naphthalene	15.617	128	3891	0.366	ug/l #	91
96) 1,2,3-Trichlorobenzene	15.823	180	1867	0.625	ug/l #	80

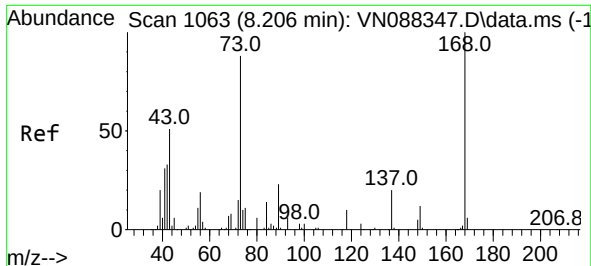
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088438.D
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Sample : VN1204MBL01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
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Quant Time: Dec 05 00:12:19 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

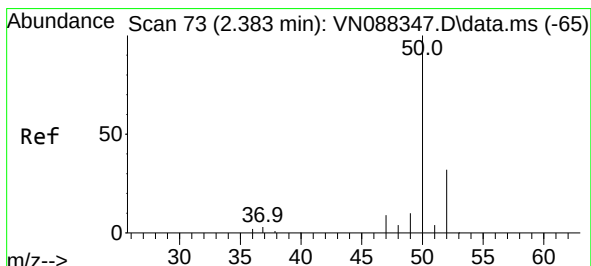
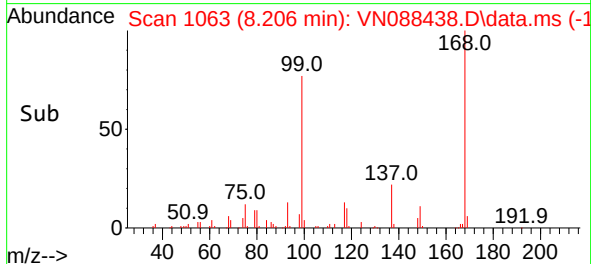
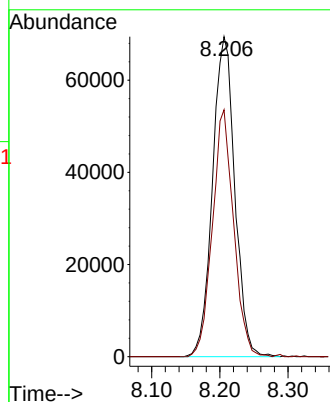
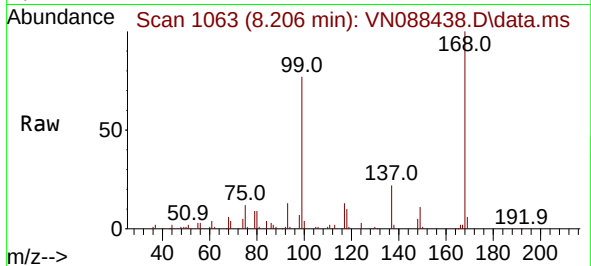




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088438.D
Acq: 04 Dec 2025 12:17

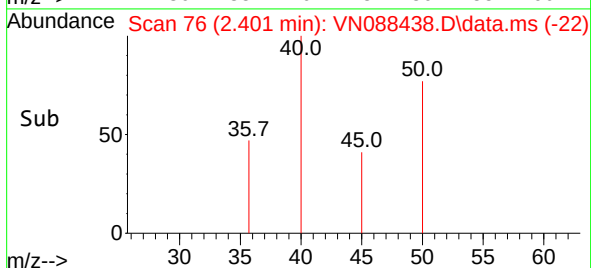
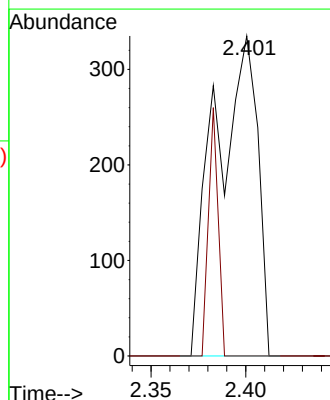
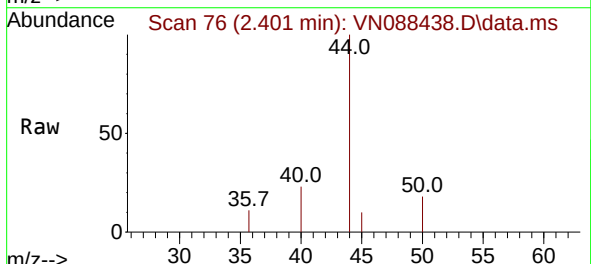
Instrument :
MSVOA_N
ClientSampleId :
VN1204MBL01

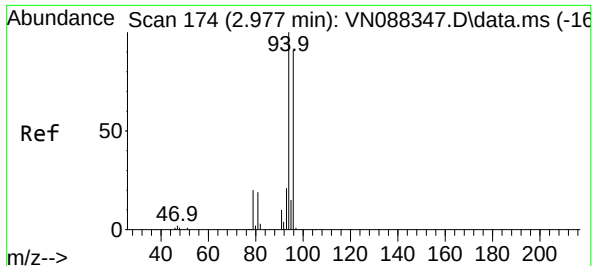
Tgt Ion:168 Resp: 158186
Ion Ratio Lower Upper
168 100
99 77.2 57.1 85.7



#3
Chloromethane
Concen: 0.203 ug/l
RT: 2.401 min Scan# 76
Delta R.T. 0.018 min
Lab File: VN088438.D
Acq: 04 Dec 2025 12:17

Tgt Ion: 50 Resp: 518
Ion Ratio Lower Upper
50 100
52 0.0 25.2 37.8#

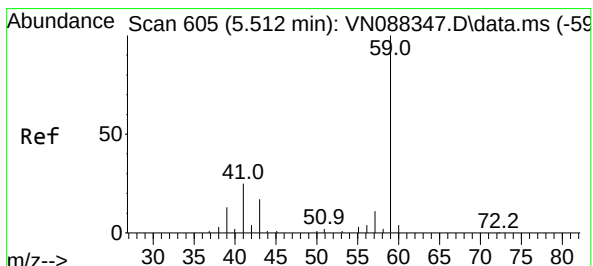
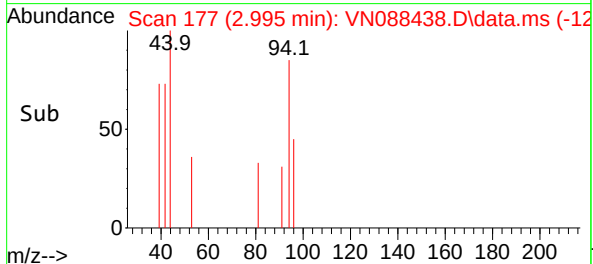
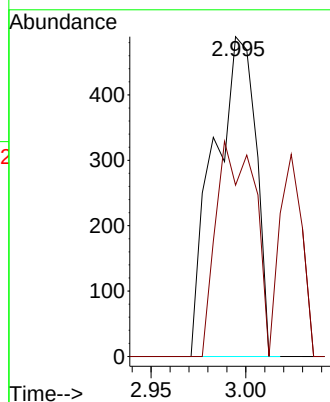
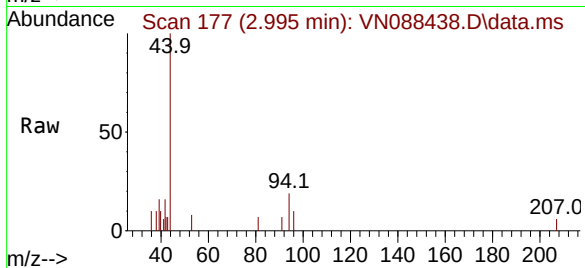




#5
Bromomethane
Concen: 0.606 ug/l
RT: 2.995 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN088438.D
Acq: 04 Dec 2025 12:17

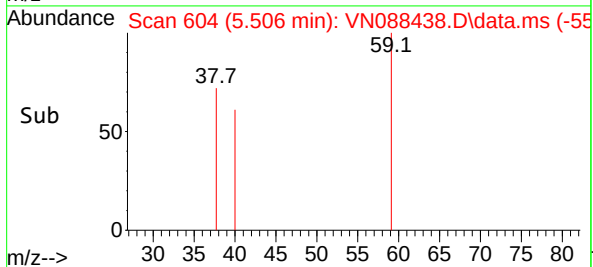
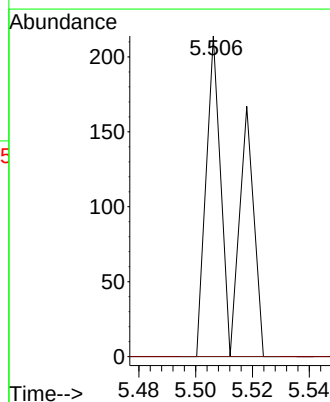
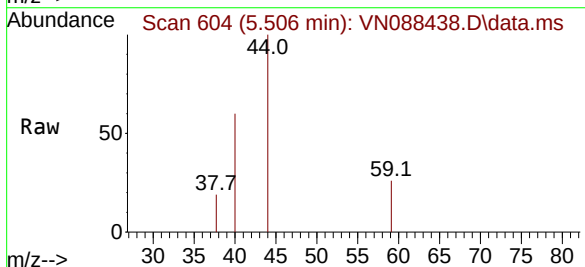
Instrument :
MSVOA_N
ClientSampleId :
VN1204MBL01

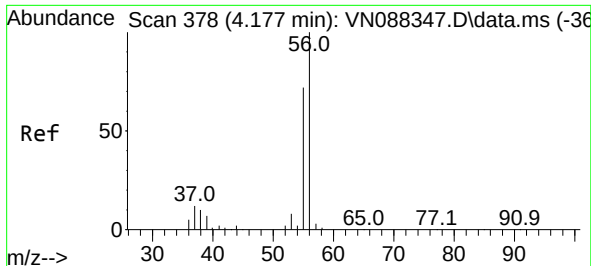
Tgt Ion: 94 Resp: 757
Ion Ratio Lower Upper
94 100
96 53.6 73.2 109.8#



#11
Tert butyl alcohol
Concen: 0.282 ug/l
RT: 5.506 min Scan# 604
Delta R.T. -0.006 min
Lab File: VN088438.D
Acq: 04 Dec 2025 12:17

Tgt Ion: 59 Resp: 134
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#





#13

Acrolein

Concen: 1.100 ug/l

RT: 4.177 min Scan# 31

Delta R.T. 0.000 min

Lab File: VN088438.D

Acq: 04 Dec 2025 12:17

Instrument :

MSVOA_N

ClientSampleId :

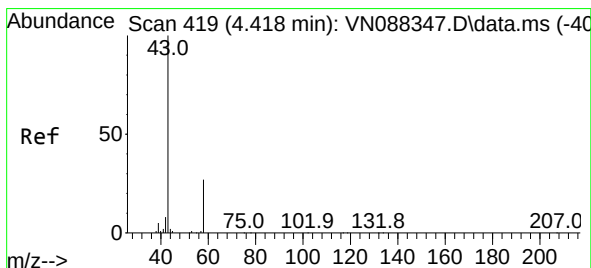
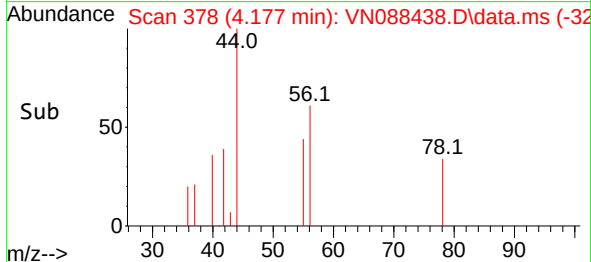
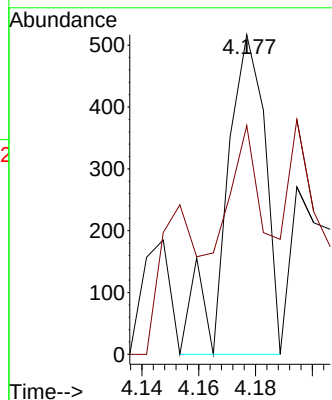
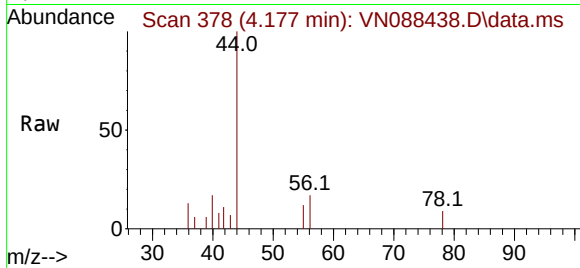
VN1204MBL01

Tgt Ion: 56 Resp: 501

Ion Ratio Lower Upper

56 100

55 82.8 56.3 84.5



#16

Acetone

Concen: 1.655 ug/l

RT: 4.424 min Scan# 420

Delta R.T. 0.006 min

Lab File: VN088438.D

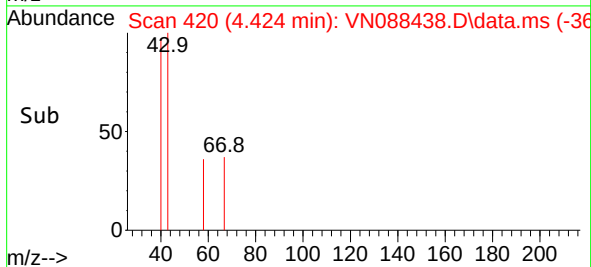
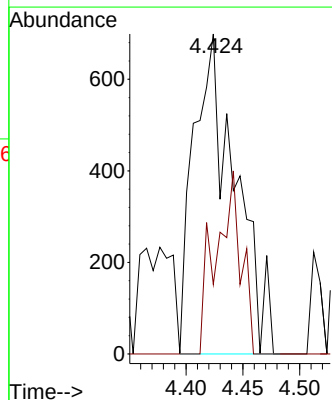
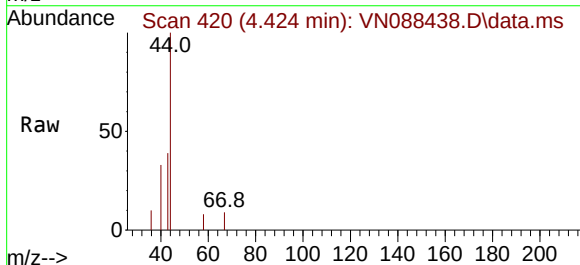
Acq: 04 Dec 2025 12:17

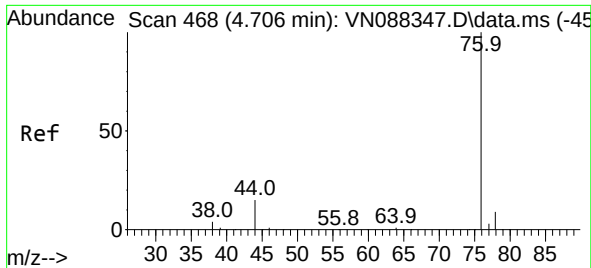
Tgt Ion: 43 Resp: 1784

Ion Ratio Lower Upper

43 100

58 21.7 21.7 32.5

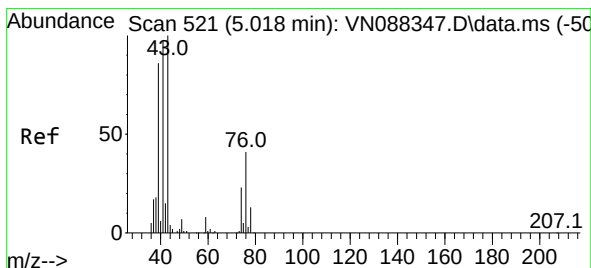
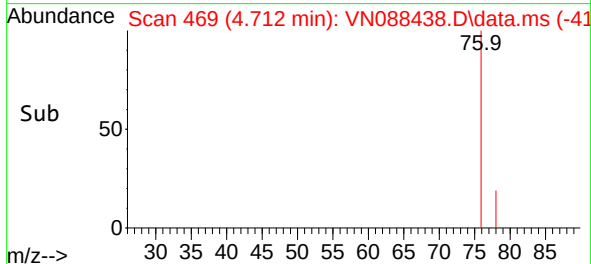
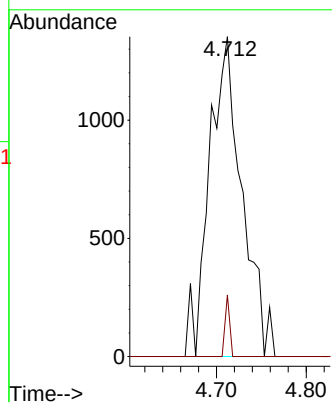
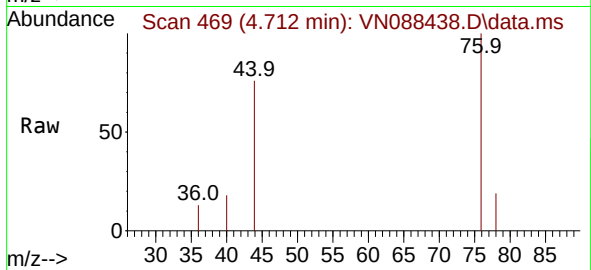




#17
Carbon Disulfide
Concen: 0.545 ug/l
RT: 4.712 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN088438.D
Acq: 04 Dec 2025 12:17

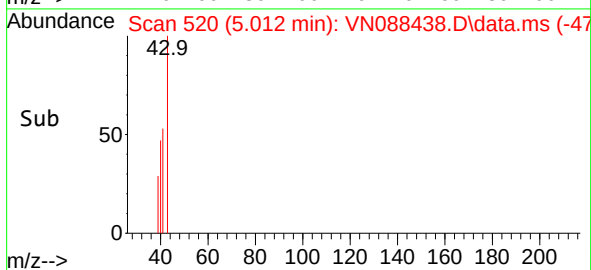
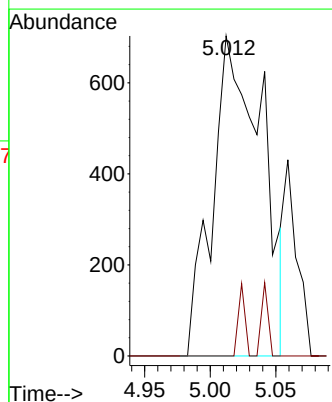
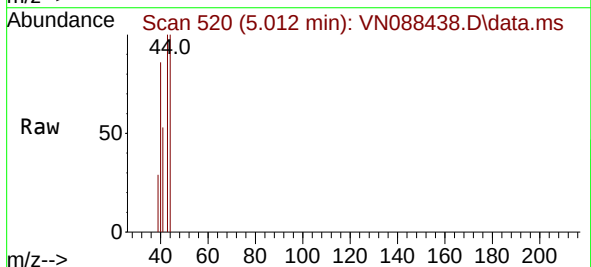
Instrument :
MSVOA_N
ClientSampleId :
VN1204MBL01

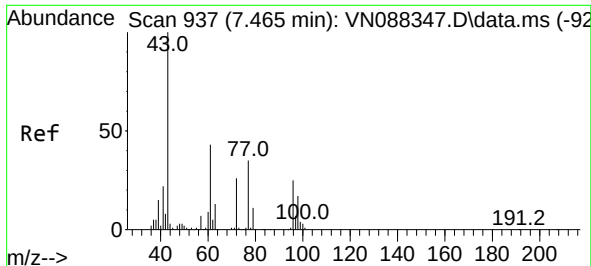
Tgt Ion: 76 Resp: 3434
Ion Ratio Lower Upper
76 100
78 19.3 7.0 10.4#



#18
Methyl Acetate
Concen: 0.575 ug/l
RT: 5.012 min Scan# 520
Delta R.T. -0.006 min
Lab File: VN088438.D
Acq: 04 Dec 2025 12:17

Tgt Ion: 43 Resp: 1843
Ion Ratio Lower Upper
43 100
74 3.0 17.9 26.9#

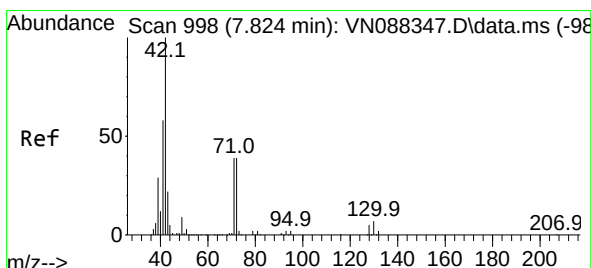
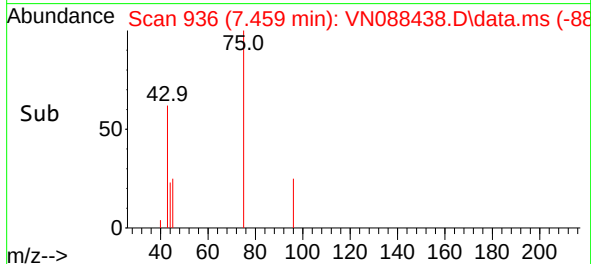
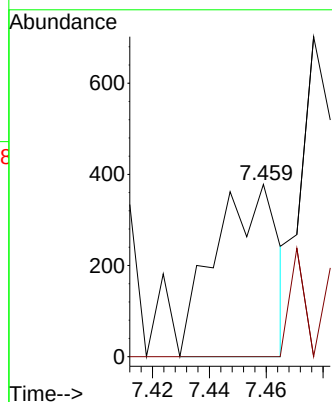
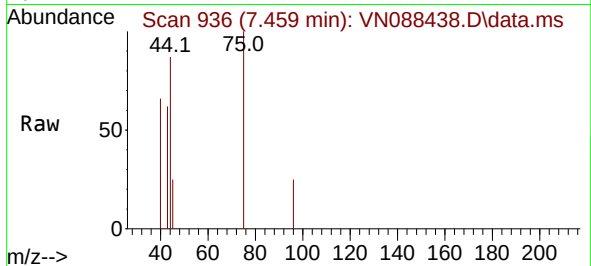




#25
2-Butanone
Concen: 0.334 ug/l
RT: 7.459 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN088438.D
Acq: 04 Dec 2025 12:17

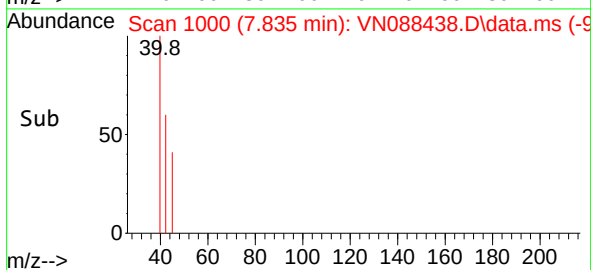
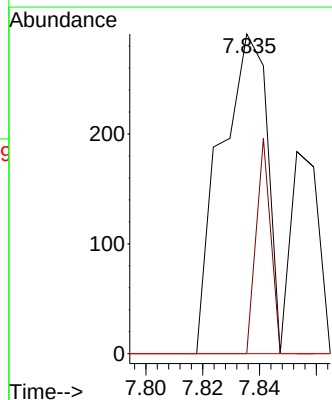
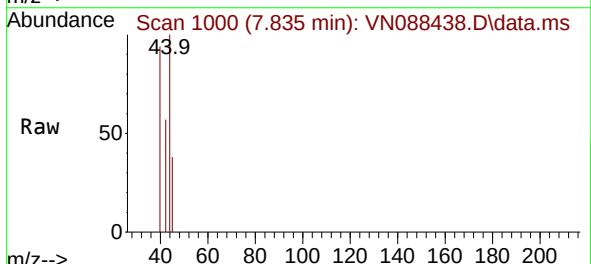
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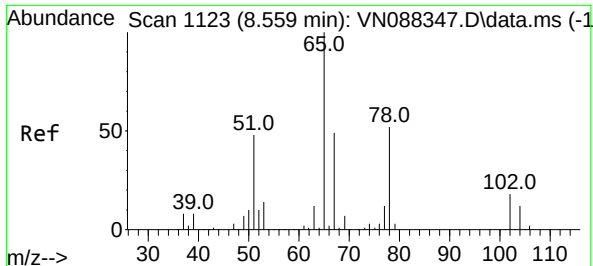
Tgt Ion: 43 Resp: 579
Ion Ratio Lower Upper
43 100
72 0.0 20.5 30.7#



#29
Tetrahydrofuran
Concen: 0.266 ug/l
RT: 7.835 min Scan# 1000
Delta R.T. 0.012 min
Lab File: VN088438.D
Acq: 04 Dec 2025 12:17

Tgt Ion: 42 Resp: 331
Ion Ratio Lower Upper
42 100
72 20.8 32.2 48.4#
71 0.0 31.1 46.7#

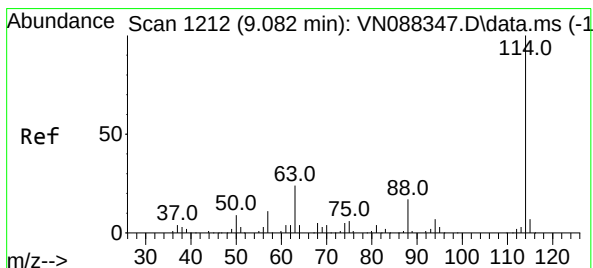
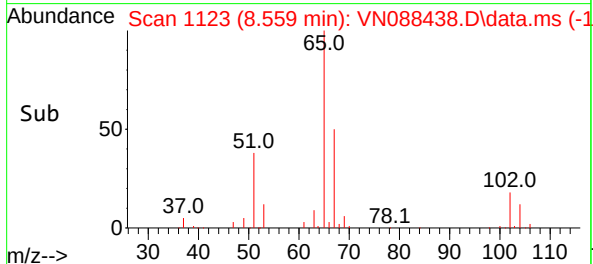
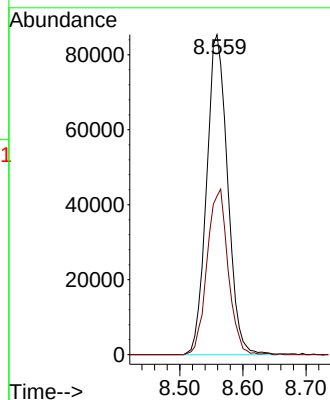
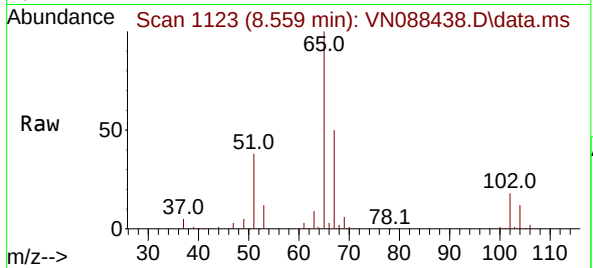




#33
 1,2-Dichloroethane-d4
 Concen: 66.133 ug/l
 RT: 8.559 min Scan# 1123
 Delta R.T. 0.000 min
 Lab File: VN088438.D
 Acq: 04 Dec 2025 12:17

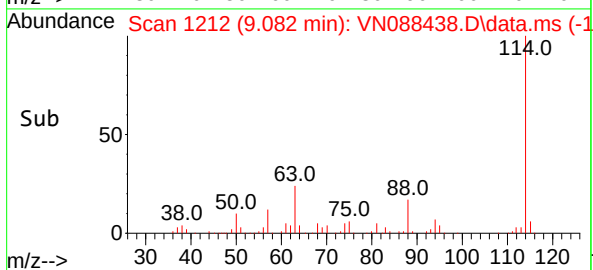
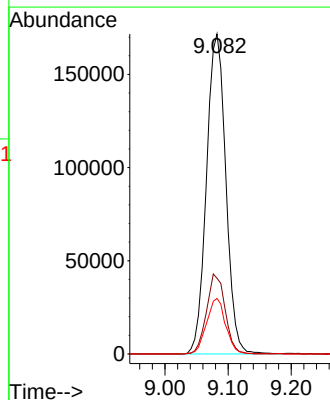
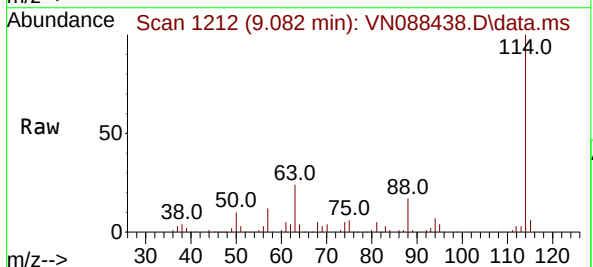
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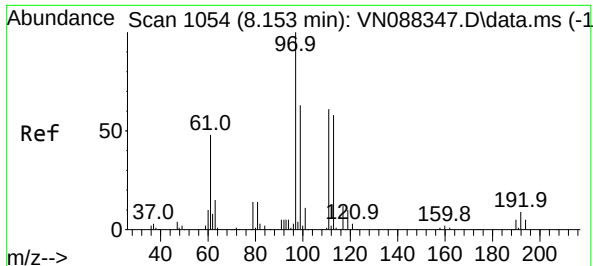
Tgt Ion: 65 Resp: 197070
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 100.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.082 min Scan# 1212
 Delta R.T. 0.000 min
 Lab File: VN088438.D
 Acq: 04 Dec 2025 12:17

Tgt Ion: 114 Resp: 365050
 Ion Ratio Lower Upper
 114 100
 63 23.7 0.0 49.0
 88 17.4 0.0 34.0





#35

Dibromofluoromethane

Concen: 57.567 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088438.D

Acq: 04 Dec 2025 12:17

Instrument :

MSVOA_N

ClientSampleId :

VN1204MBL01

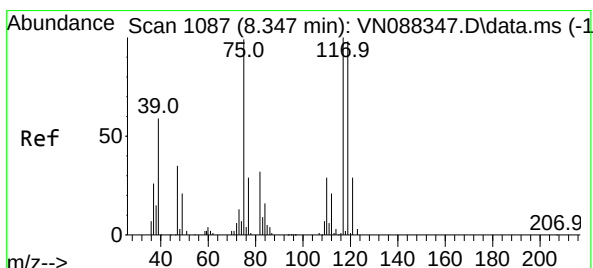
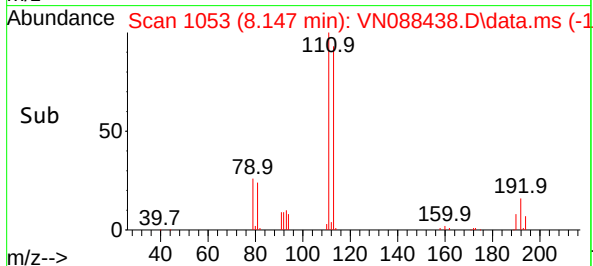
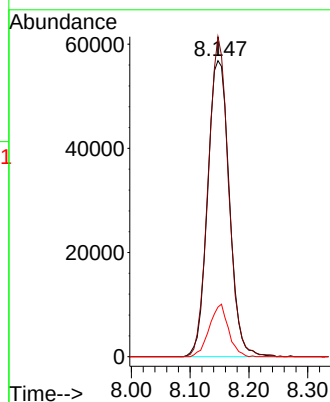
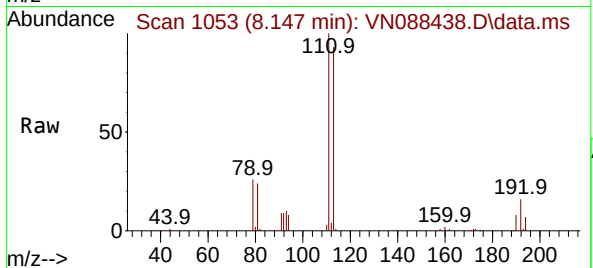
Tgt Ion:113 Resp: 145632

Ion Ratio Lower Upper

113 100

111 101.9 82.5 123.7

192 15.6 12.8 19.2



#38

Carbon Tetrachloride

Concen: 5.191 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.141 min

Lab File: VN088438.D

Acq: 04 Dec 2025 12:17

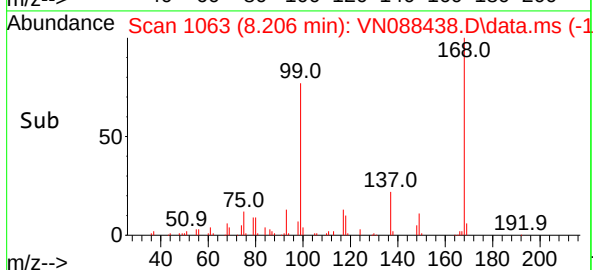
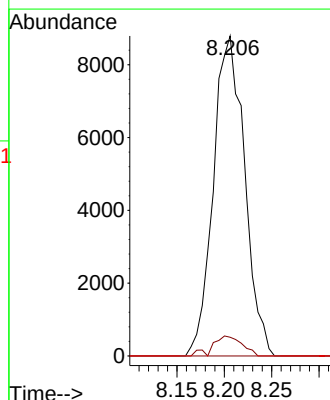
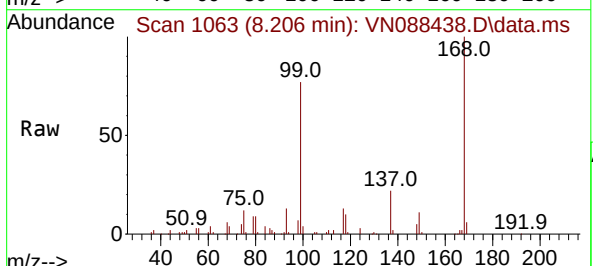
Tgt Ion:117 Resp: 20175

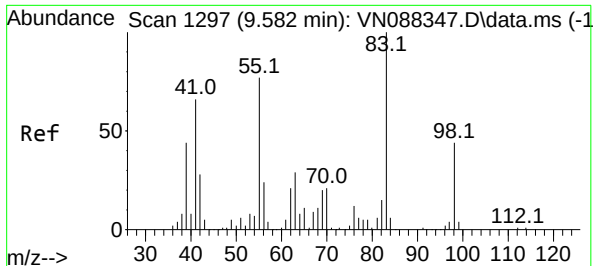
Ion Ratio Lower Upper

117 100

119 5.9 78.2 117.4#

121 0.0 23.4 35.2#





#39

Methylcyclohexane

Concen: 0.254 ug/l

RT: 9.577 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN088438.D

Acq: 04 Dec 2025 12:17

Instrument :

MSVOA_N

ClientSampleId :

VN1204MBL01

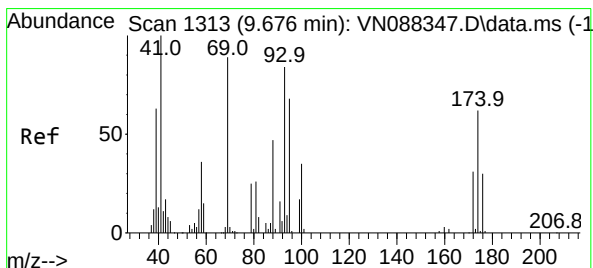
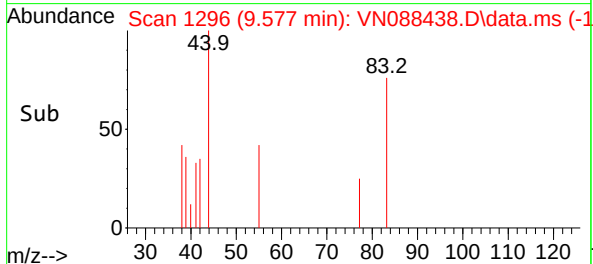
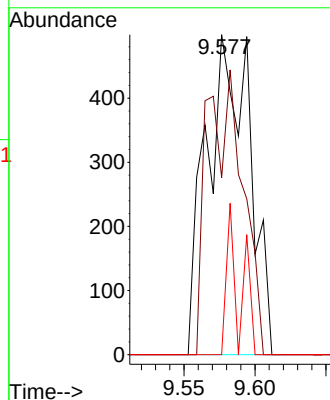
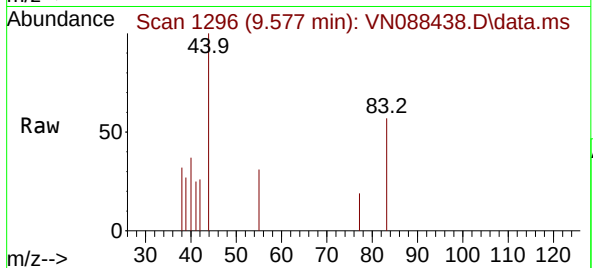
Tgt Ion: 83 Resp: 1059

Ion Ratio Lower Upper

83 100

55 55.3 61.6 92.4#

98 0.0 35.3 52.9#



#49

1,4-Dioxane

Concen: 7.163 ug/l

RT: 9.671 min Scan# 1312

Delta R.T. -0.006 min

Lab File: VN088438.D

Acq: 04 Dec 2025 12:17

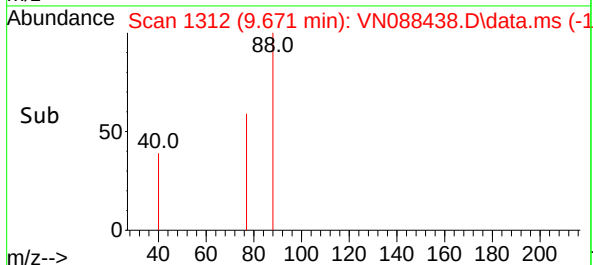
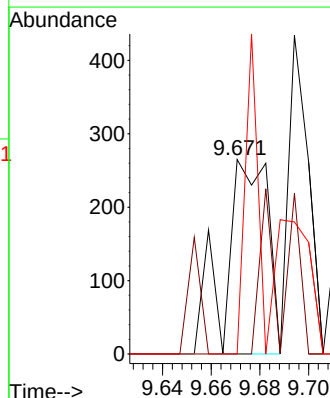
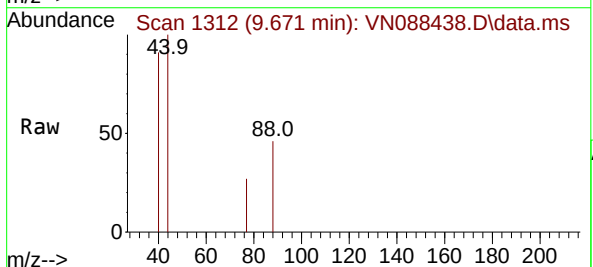
Tgt Ion: 88 Resp: 326

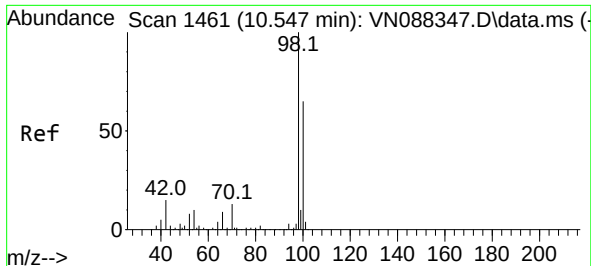
Ion Ratio Lower Upper

88 100

43 48.2 0.0 0.0#

58 86.5 62.0 93.0

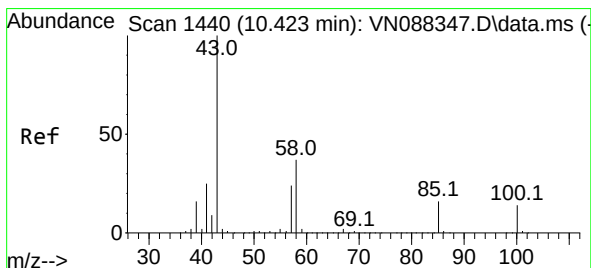
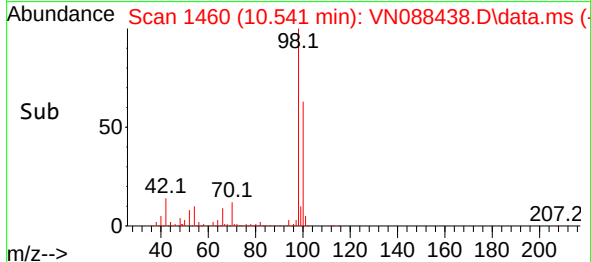
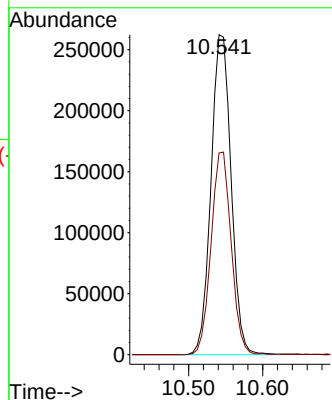
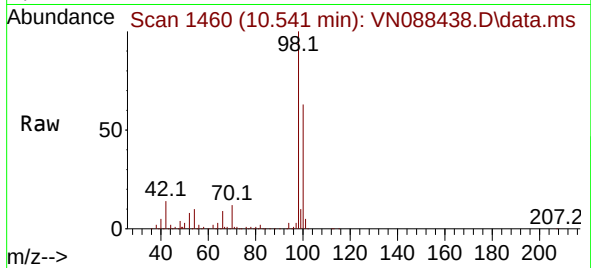




#50
Toluene-d8
Concen: 52.502 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088438.D
Acq: 04 Dec 2025 12:17

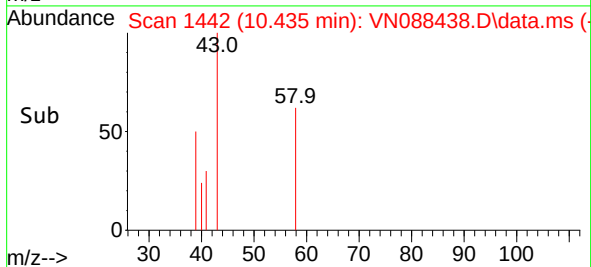
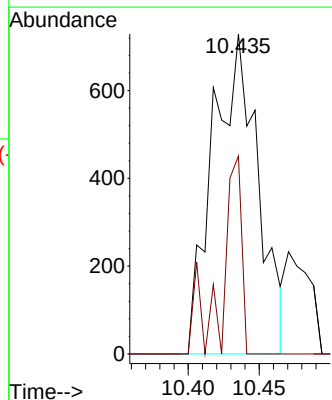
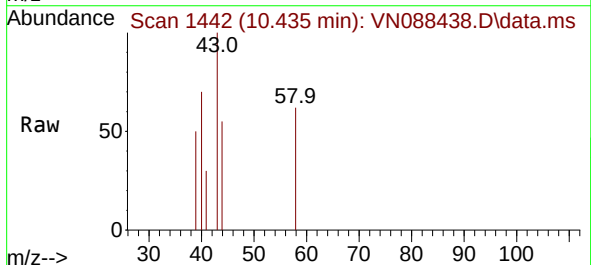
Instrument :
MSVOA_N
ClientSampleId :
VN1204MBL01

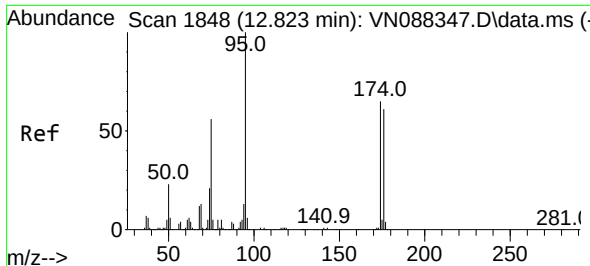
Tgt Ion: 98 Resp: 494184
Ion Ratio Lower Upper
98 100
100 63.4 52.2 78.2



#51
4-Methyl-2-Pentanone
Concen: 0.347 ug/l
RT: 10.435 min Scan# 1442
Delta R.T. 0.012 min
Lab File: VN088438.D
Acq: 04 Dec 2025 12:17

Tgt Ion: 43 Resp: 1604
Ion Ratio Lower Upper
43 100
58 22.3 29.1 43.7#

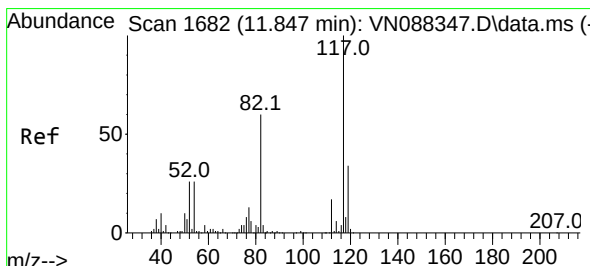
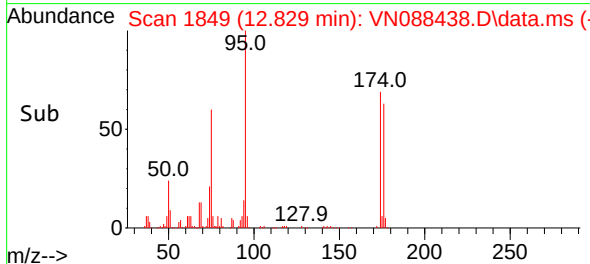
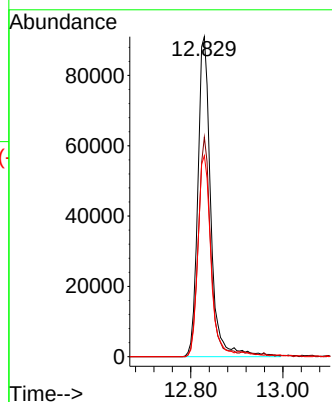
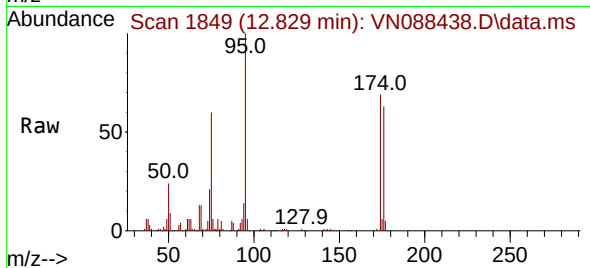




#62
4-Bromofluorobenzene
Concen: 54.952 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088438.D
Acq: 04 Dec 2025 12:17

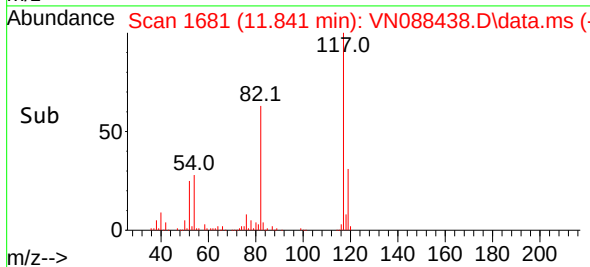
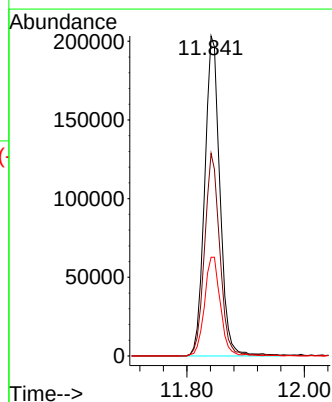
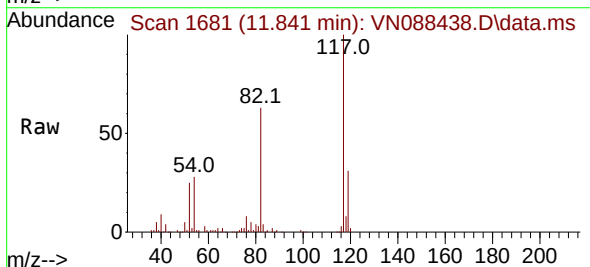
Instrument :
MSVOA_N
ClientSampleId :
VN1204MBL01

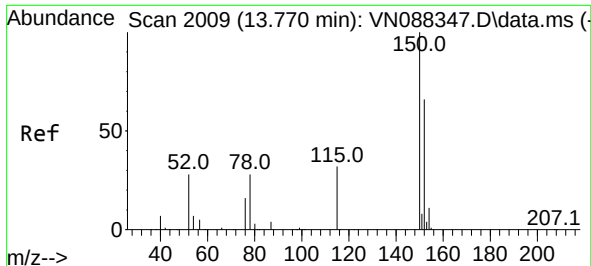
Tgt Ion: 95 Resp: 177477
Ion Ratio Lower Upper
95 100
174 65.9 0.0 139.0
176 62.4 0.0 132.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.006 min
Lab File: VN088438.D
Acq: 04 Dec 2025 12:17

Tgt Ion: 117 Resp: 366228
Ion Ratio Lower Upper
117 100
82 63.3 47.8 71.8
119 30.8 26.9 40.3

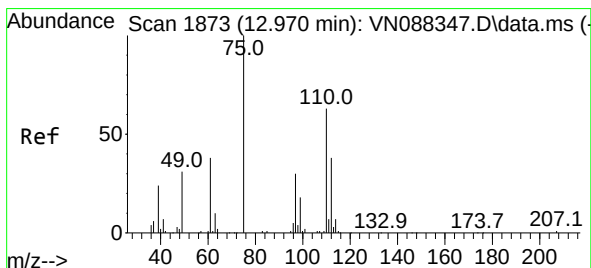
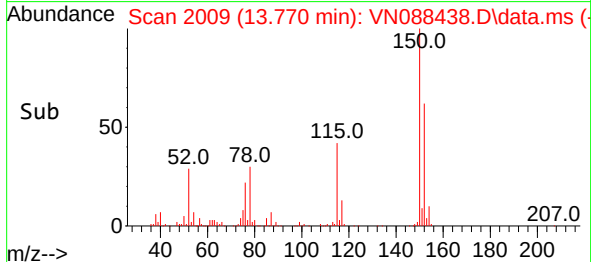
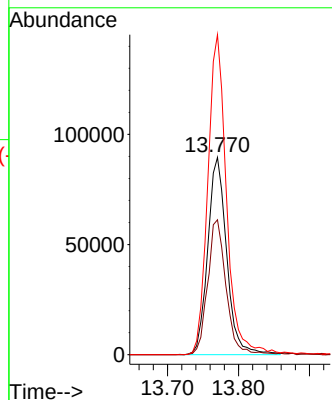
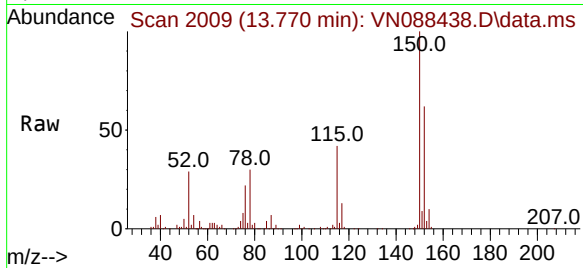




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.770 min Scan# 2009
 Delta R.T. 0.000 min
 Lab File: VN088438.D
 Acq: 04 Dec 2025 12:17

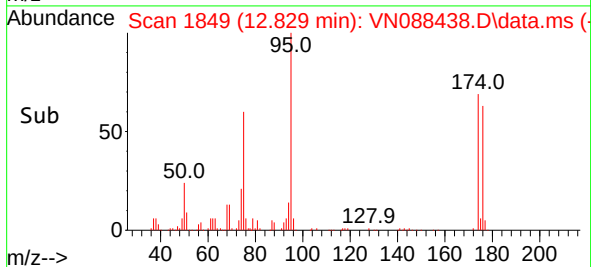
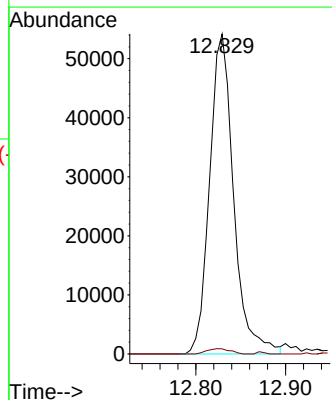
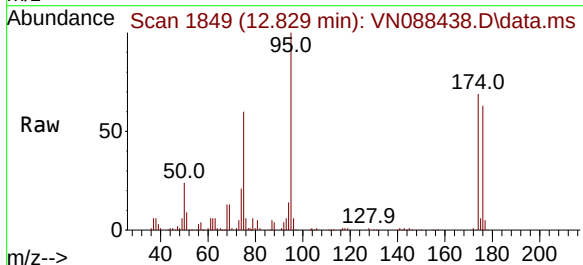
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1204MBL01

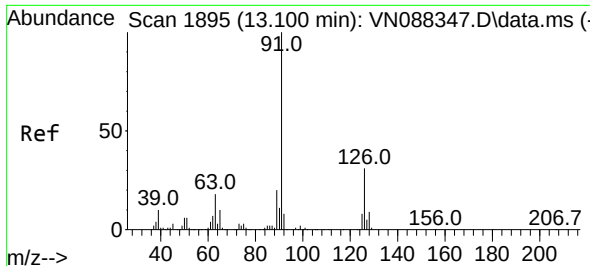
Tgt Ion:152 Resp: 166667
 Ion Ratio Lower Upper
 152 100
 115 66.9 33.0 98.9
 150 160.2 0.0 349.0



#76
 1,2,3-Trichloropropane
 Concen: 25.801 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. -0.141 min
 Lab File: VN088438.D
 Acq: 04 Dec 2025 12:17

Tgt Ion: 75 Resp: 100716
 Ion Ratio Lower Upper
 75 100
 77 1.6 87.2 261.6#

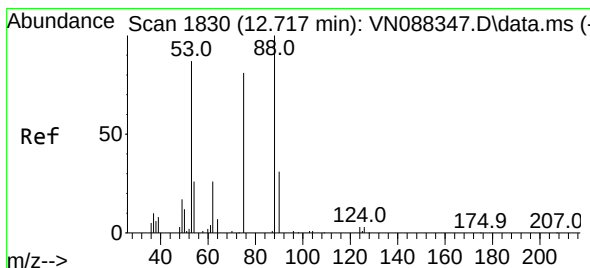
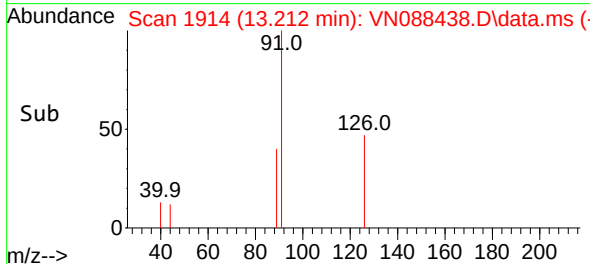
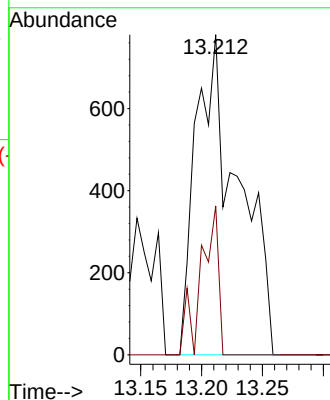
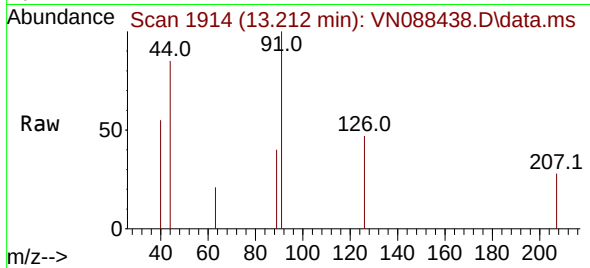




#79
2-Chlorotoluene
Concen: 0.206 ug/l
RT: 13.212 min Scan# 1896
Delta R.T. 0.112 min
Lab File: VN088438.D
Acq: 04 Dec 2025 12:17

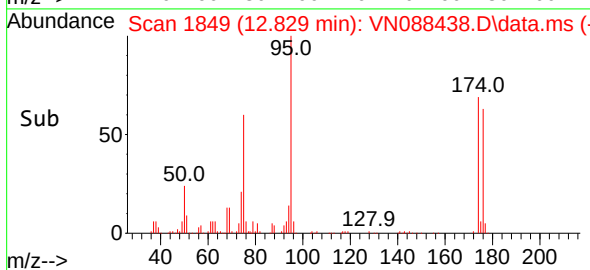
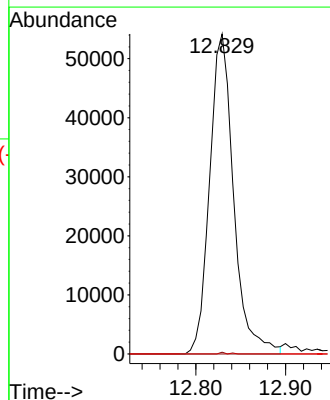
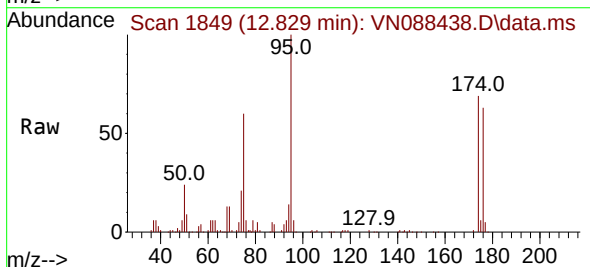
Instrument :
MSVOA_N
ClientSampleId :
VN1204MBL01

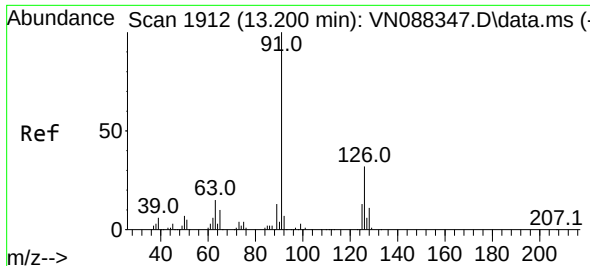
Tgt Ion: 91 Resp: 1896
Ion Ratio Lower Upper
91 100
126 18.9 15.3 45.9



#81
trans-1,4-Dichloro-2-butene
Concen: 73.195 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN088438.D
Acq: 04 Dec 2025 12:17

Tgt Ion: 75 Resp: 100716
Ion Ratio Lower Upper
75 100
53 0.2 92.2 138.4#
89 0.0 0.0 0.0

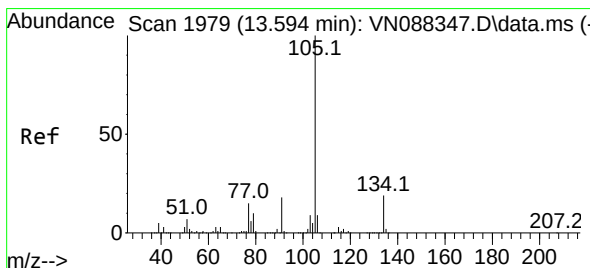
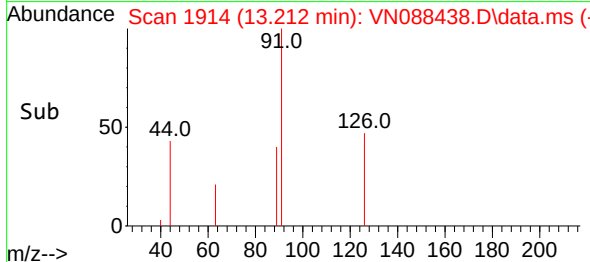
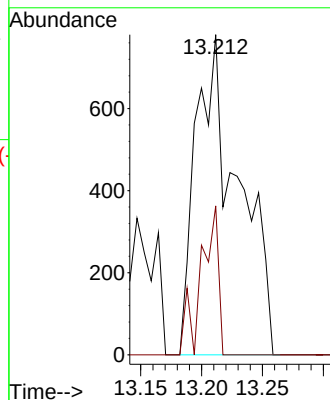
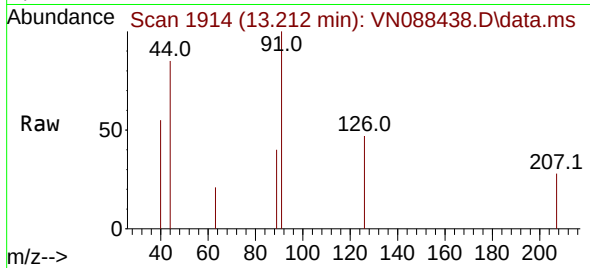




#82
4-Chlorotoluene
Concen: 0.207 ug/l
RT: 13.212 min Scan# 1914
Delta R.T. 0.012 min
Lab File: VN088438.D
Acq: 04 Dec 2025 12:17

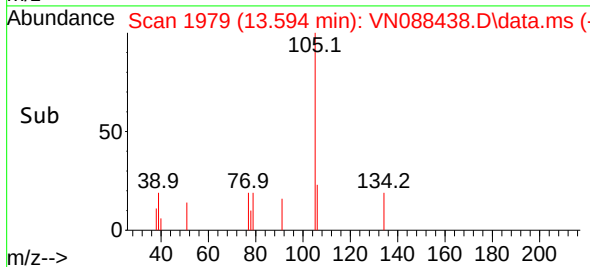
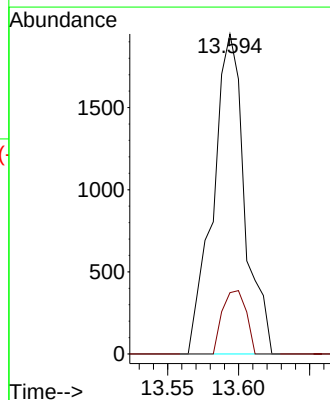
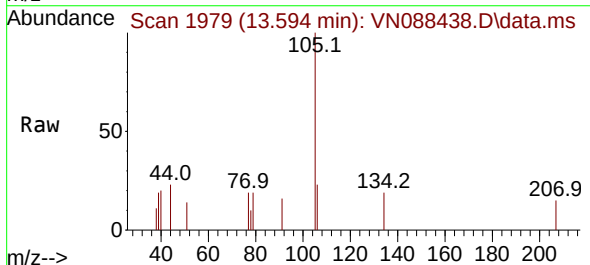
Instrument :
MSVOA_N
ClientSampleId :
VN1204MBL01

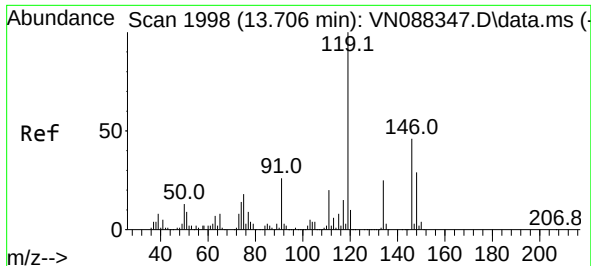
Tgt Ion: 91 Resp: 1896
Ion Ratio Lower Upper
91 100
126 18.9 15.6 46.7



#85
sec-Butylbenzene
Concen: 0.242 ug/l
RT: 13.594 min Scan# 1979
Delta R.T. 0.000 min
Lab File: VN088438.D
Acq: 04 Dec 2025 12:17

Tgt Ion: 105 Resp: 3012
Ion Ratio Lower Upper
105 100
134 14.9 9.5 28.5

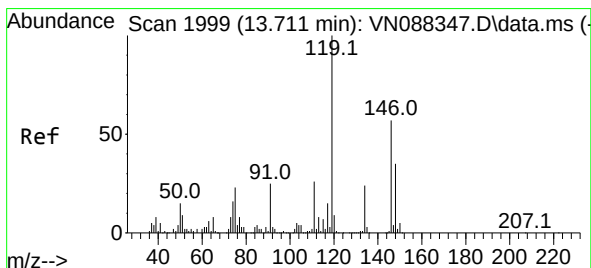
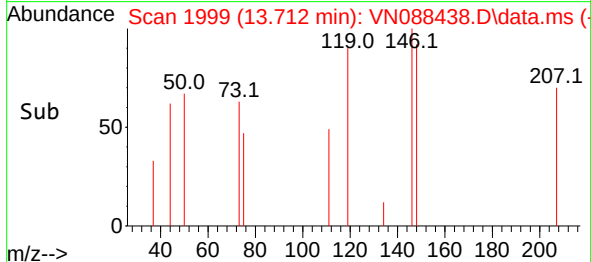
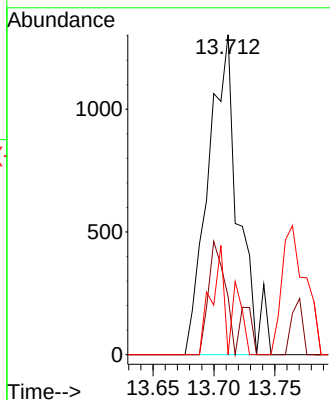
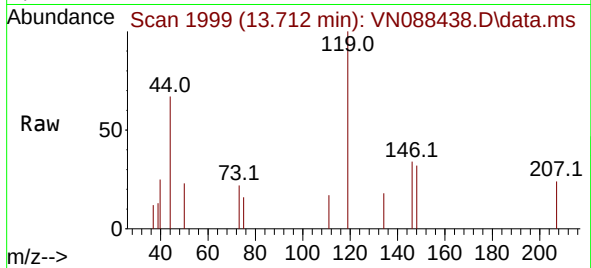




#86
p-Isopropyltoluene
Concen: 0.221 ug/l
RT: 13.712 min Scan# 1998
Delta R.T. 0.006 min
Lab File: VN088438.D
Acq: 04 Dec 2025 12:17

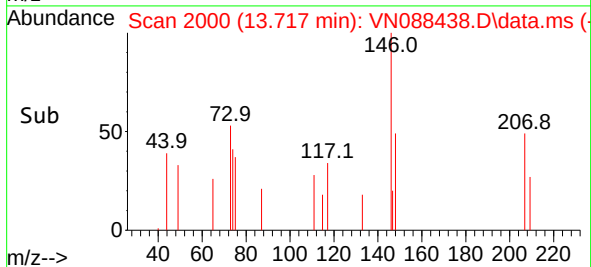
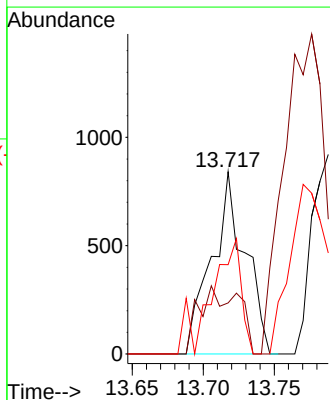
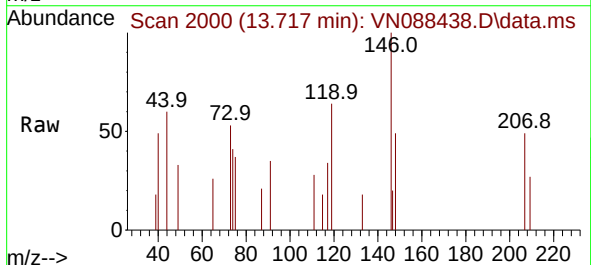
Instrument :
MSVOA_N
ClientSampleId :
VN1204MBL01

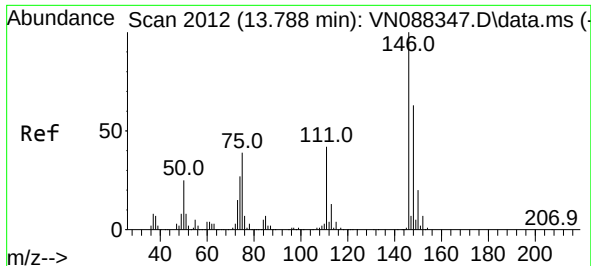
Tgt Ion:119 Resp: 2262
Ion Ratio Lower Upper
119 100
134 19.6 12.2 36.6
91 21.6 13.0 39.0



#87
1,3-Dichlorobenzene
Concen: 0.249 ug/l
RT: 13.717 min Scan# 2000
Delta R.T. 0.006 min
Lab File: VN088438.D
Acq: 04 Dec 2025 12:17

Tgt Ion:146 Resp: 1365
Ion Ratio Lower Upper
146 100
111 44.4 22.4 67.0
148 50.9 31.6 94.8

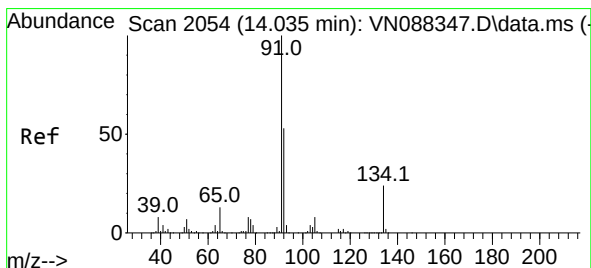
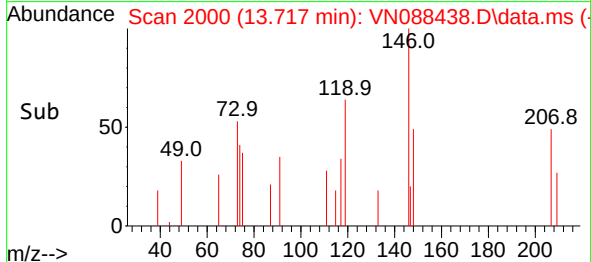
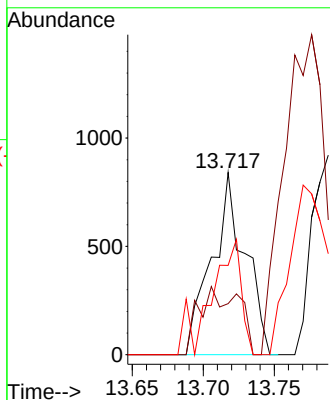
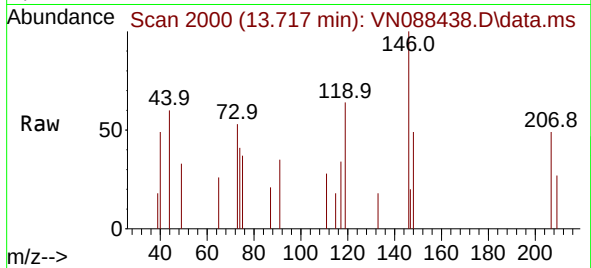




#88
1,4-Dichlorobenzene
Concen: 0.237 ug/l
RT: 13.717 min Scan# 2012
Delta R.T. -0.071 min
Lab File: VN088438.D
Acq: 04 Dec 2025 12:17

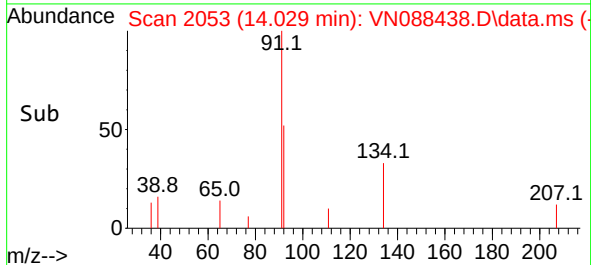
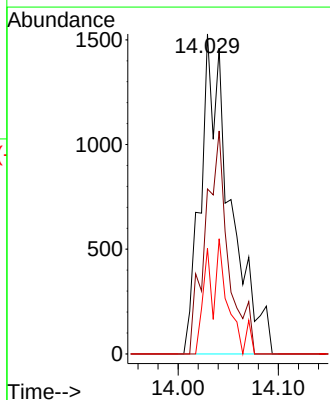
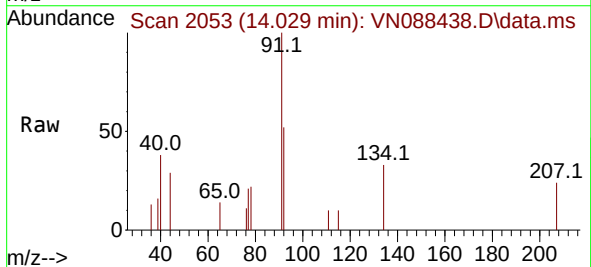
Instrument :
MSVOA_N
ClientSampleId :
VN1204MBL01

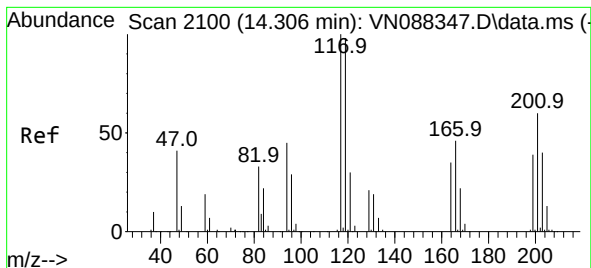
Tgt Ion:146 Resp: 1365
Ion Ratio Lower Upper
146 100
111 44.4 21.6 64.6
148 50.9 31.0 93.0



#89
n-Butylbenzene
Concen: 0.318 ug/l
RT: 14.029 min Scan# 2053
Delta R.T. -0.006 min
Lab File: VN088438.D
Acq: 04 Dec 2025 12:17

Tgt Ion: 91 Resp: 3155
Ion Ratio Lower Upper
91 100
92 53.9 26.1 78.3
134 9.9 11.7 35.1#





#90

Hexachloroethane

Concen: 0.266 ug/l

RT: 14.317 min Scan# 2100

Delta R.T. 0.012 min

Lab File: VN088438.D

Acq: 04 Dec 2025 12:17

Instrument :

MSVOA_N

ClientSampleId :

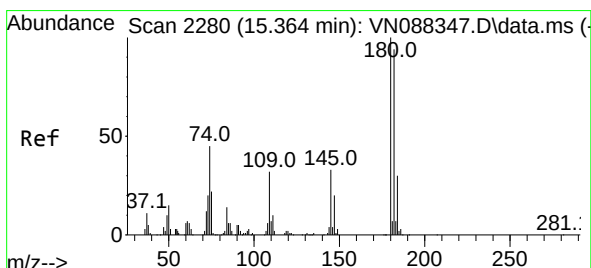
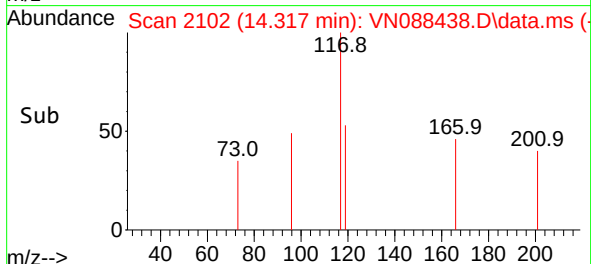
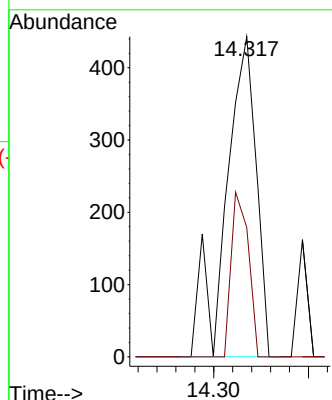
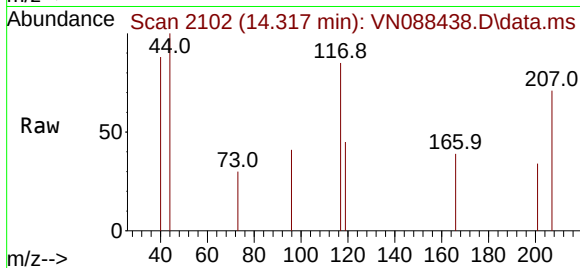
VN1204MBL01

Tgt Ion:117 Resp: 497

Ion Ratio Lower Upper

117 100

201 29.0 30.3 90.9#



#93

1,2,4-Trichlorobenzene

Concen: 0.622 ug/l

RT: 15.382 min Scan# 2283

Delta R.T. 0.018 min

Lab File: VN088438.D

Acq: 04 Dec 2025 12:17

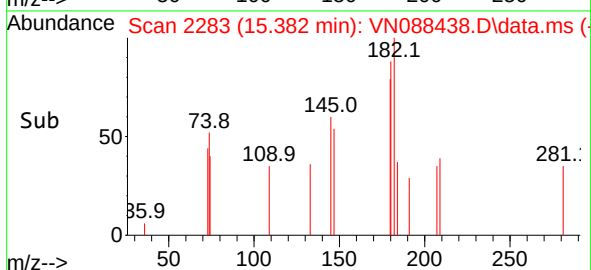
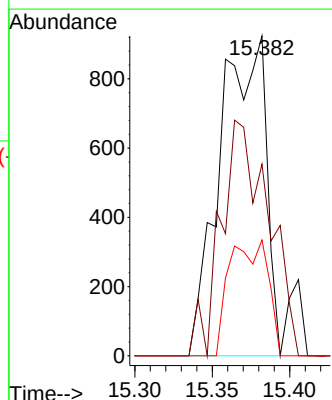
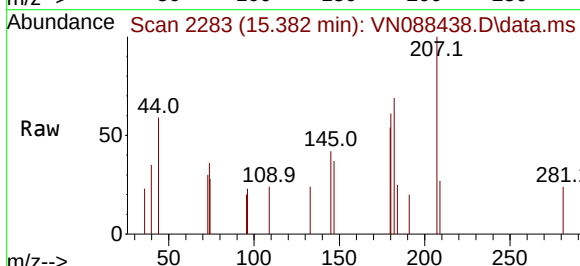
Tgt Ion:180 Resp: 1909

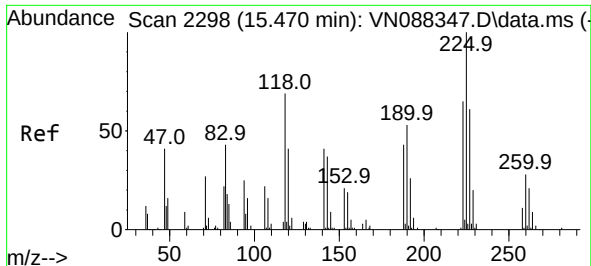
Ion Ratio Lower Upper

180 100

182 76.4 46.1 138.2

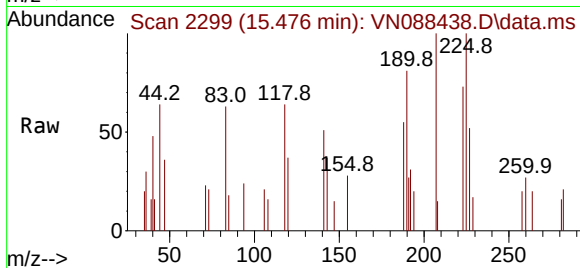
145 30.3 16.7 50.1



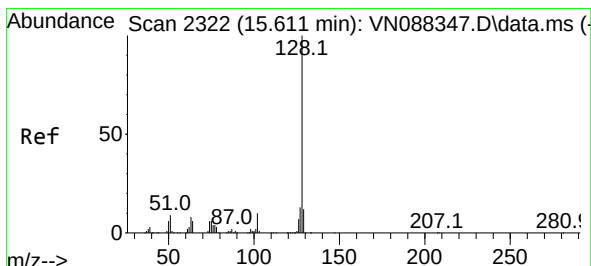
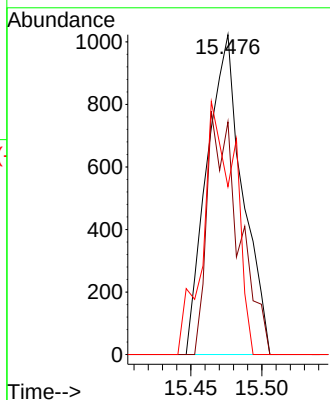
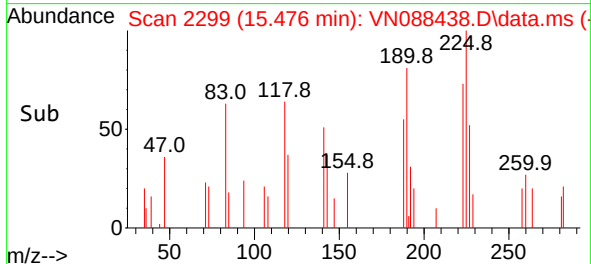


#94
Hexachlorobutadiene
Concen: 1.619 ug/l
RT: 15.476 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN088438.D
Acq: 04 Dec 2025 12:17

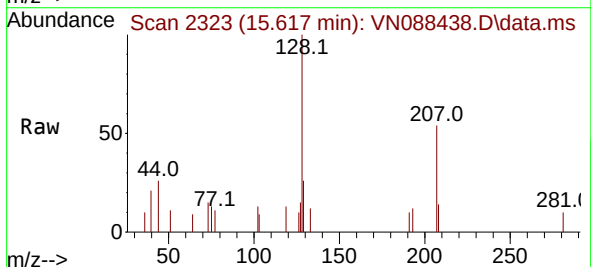
Instrument :
MSVOA_N
ClientSampleId :
VN1204MBL01



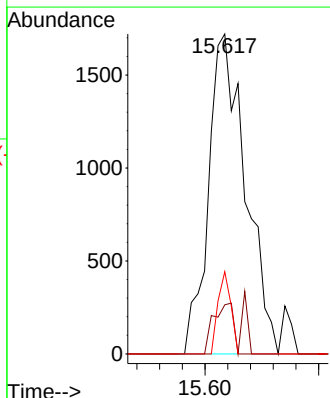
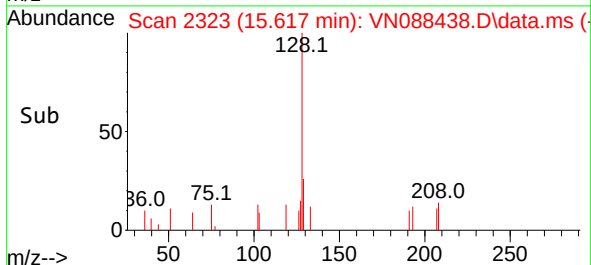
Tgt Ion:	225	Resp:	1785
Ion	Ratio	Lower	Upper
225	100		
223	67.1	32.3	96.8
227	70.8	29.9	89.8

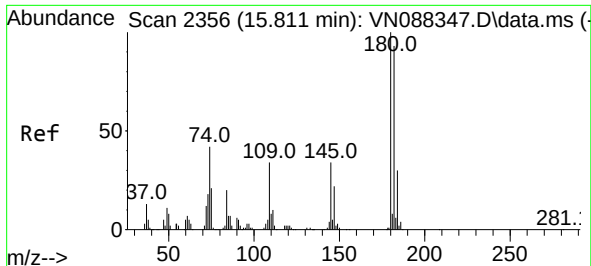


#95
Naphthalene
Concen: 0.366 ug/l
RT: 15.617 min Scan# 2323
Delta R.T. 0.006 min
Lab File: VN088438.D
Acq: 04 Dec 2025 12:17



Tgt Ion:	128	Resp:	3891
Ion	Ratio	Lower	Upper
128	100		
127	8.5	10.4	15.6#
129	8.9	9.0	13.6#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.625 ug/l
 RT: 15.823 min Scan# 21
 Delta R.T. 0.012 min
 Lab File: VN088438.D
 Acq: 04 Dec 2025 12:17

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1204MBL01

Tgt Ion:180 Resp: 1867
 Ion Ratio Lower Upper
 180 100
 182 80.4 45.9 137.7
 145 11.0 17.8 53.4#

