

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091925\
 Data File : VN087904.D
 Acq On : 19 Sep 2025 12:20
 Operator : JC\MD
 Sample : Q3122-02DL 1000X
 Misc : 2.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 20 03:05:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

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

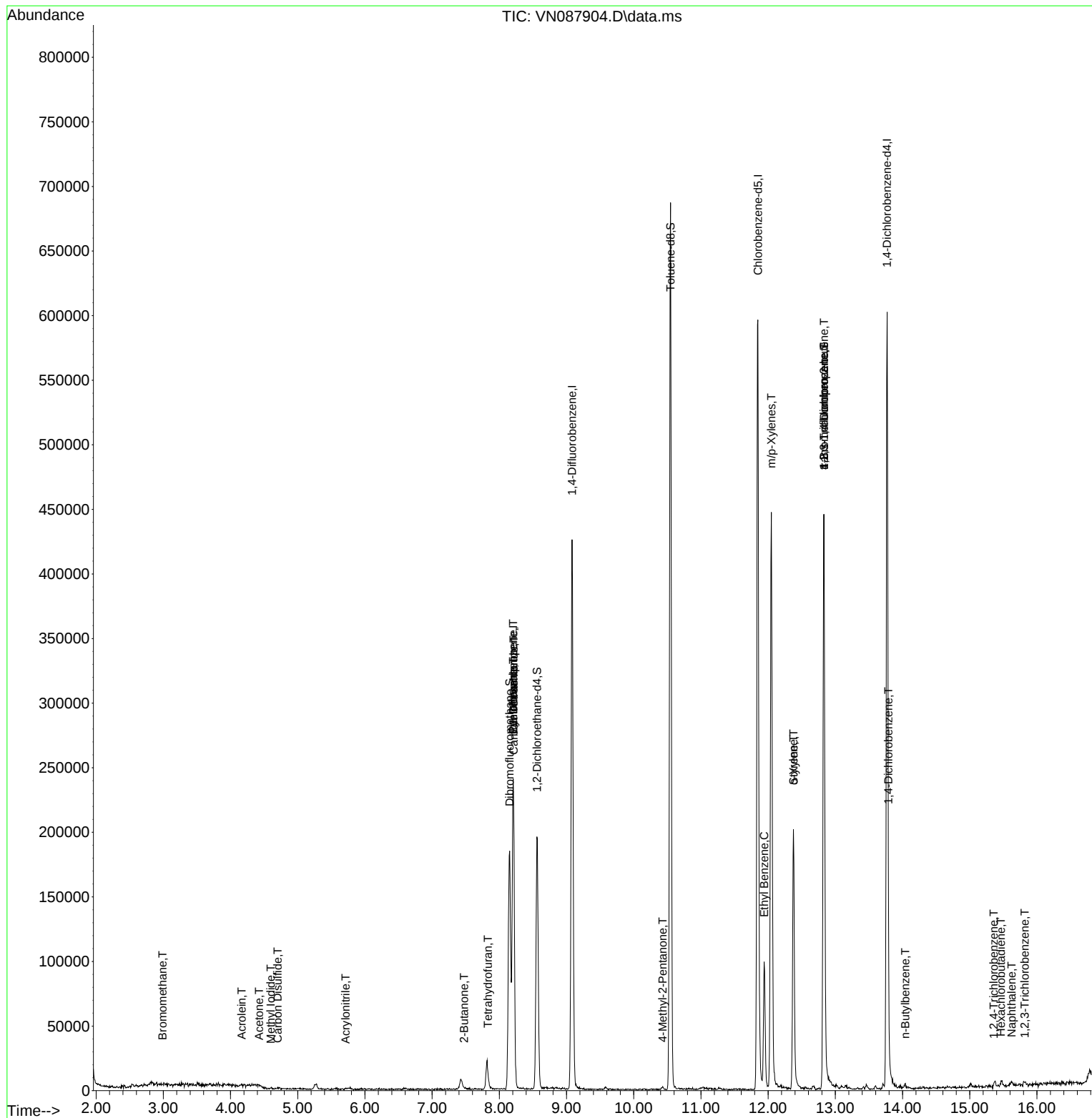
Internal Standards						
1) Pentafluorobenzene	8.206	168	174878	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	365258	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	349550	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	168723	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	163181	45.542	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	91.080%
35) Dibromofluoromethane	8.153	113	135656	51.440	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	102.880%
50) Toluene-d8	10.547	98	459291	46.532	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	93.060%
62) 4-Bromofluorobenzene	12.829	95	161766	46.084	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	92.160%
Target Compounds						
					Qvalue	
5) Bromomethane	2.989	94	675	0.442	ug/l #	3
10) Methyl Iodide	4.601	142	390	6.994	ug/l #	38
13) Acrolein	4.165	56	370	0.484	ug/l #	63
15) Acrylonitrile	5.712	53	389	0.222	ug/l #	31
16) Acetone	4.424	43	719	0.369	ug/l #	47
17) Carbon Disulfide	4.701	76	1588	0.229	ug/l #	43
25) 2-Butanone	7.477	43	678	0.264	ug/l #	50
29) Tetrahydrofuran	7.830	42	511	0.309	ug/l #	34
31) Cyclohexane	8.206	56	4687	1.040	ug/l #	13
36) 1,1-Dichloropropene	8.206	75	16261	4.019	ug/l #	52
38) Carbon Tetrachloride	8.212	117	18530	4.639	ug/l #	16
51) 4-Methyl-2-Pentanone	10.430	43	1580	0.303	ug/l #	81
67) Ethyl Benzene	11.941	91	71399	4.742	ug/l	99
68) m/p-Xylenes	12.047	106	141497	25.624	ug/l	97
69) o-Xylene	12.377	106	56849	10.505	ug/l	99
70) Styrene	12.377	104	4372	0.482	ug/l #	1
76) 1,2,3-Trichloropropane	12.829	75	89239	22.554	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	89239	59.710	ug/l #	1
88) 1,4-Dichlorobenzene	13.788	146	1429	0.217	ug/l #	1
89) n-Butylbenzene	14.041	91	2713	0.231	ug/l	86
93) 1,2,4-Trichlorobenzene	15.359	180	802	0.222	ug/l #	21
94) Hexachlorobutadiene	15.465	225	829	0.645	ug/l #	50
95) Naphthalene	15.623	128	3144	0.246	ug/l #	92
96) 1,2,3-Trichlorobenzene	15.817	180	836	0.237	ug/l	75

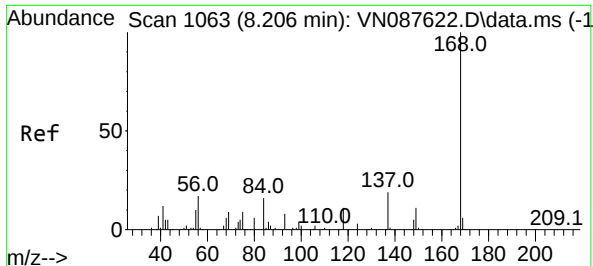
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091925\
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Sample : Q3122-02DL 1000X
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ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Sep 20 03:05:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration

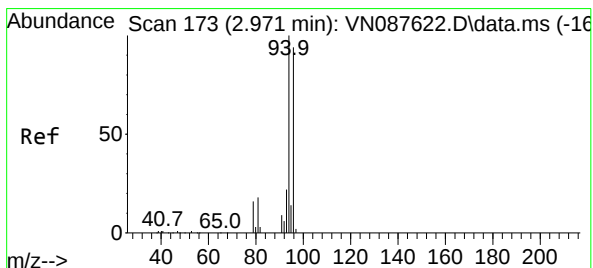
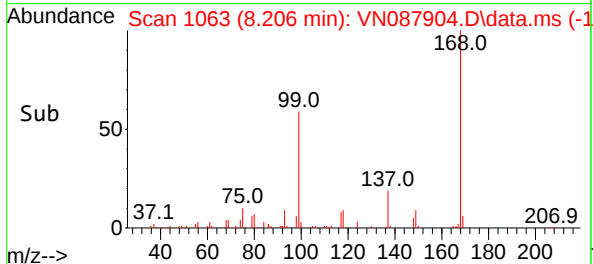
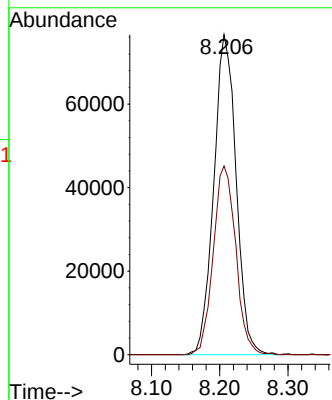
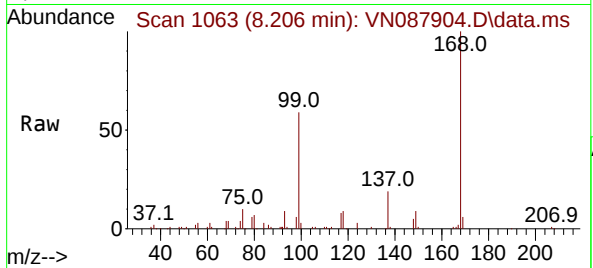




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087904.D
Acq: 19 Sep 2025 12:20

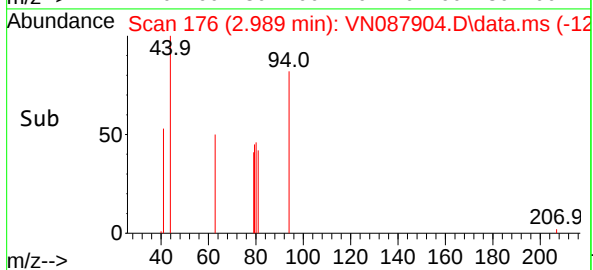
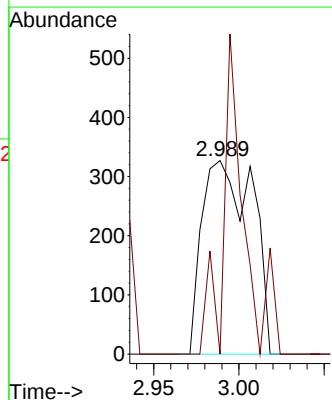
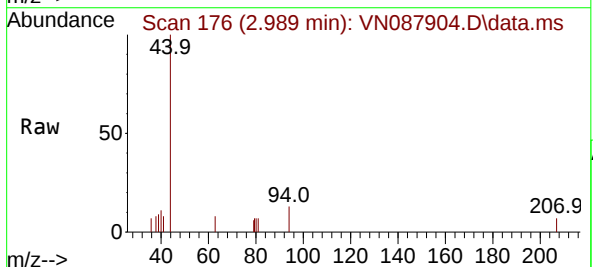
Instrument :
MSVOA_N
ClientSampleId :

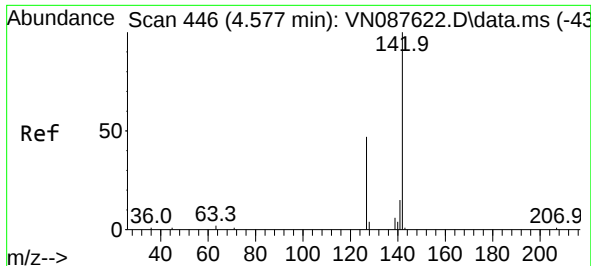
Tgt Ion:168 Resp: 174878
Ion Ratio Lower Upper
168 100
99 59.0 57.2 85.8



#5
Bromomethane
Concen: 0.442 ug/l
RT: 2.989 min Scan# 176
Delta R.T. 0.018 min
Lab File: VN087904.D
Acq: 19 Sep 2025 12:20

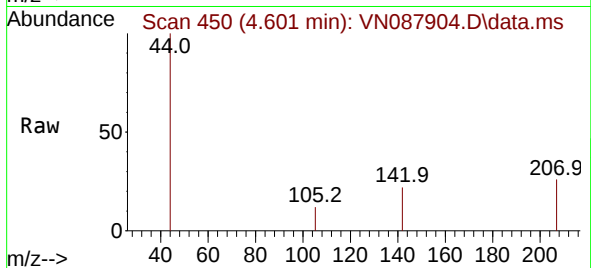
Tgt Ion: 94 Resp: 675
Ion Ratio Lower Upper
94 100
96 0.0 75.4 113.2#



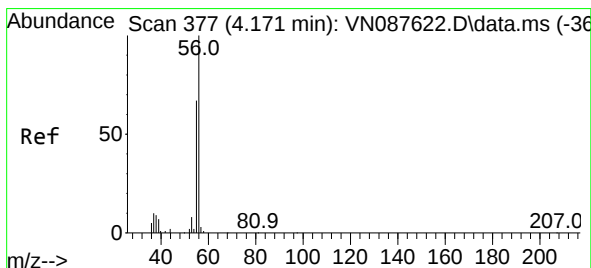
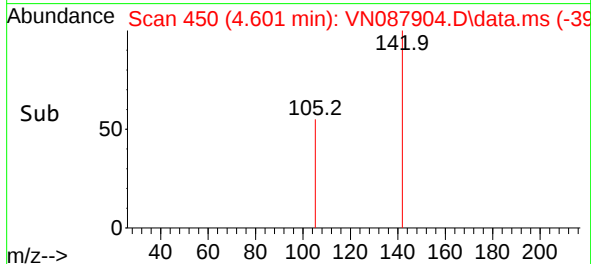
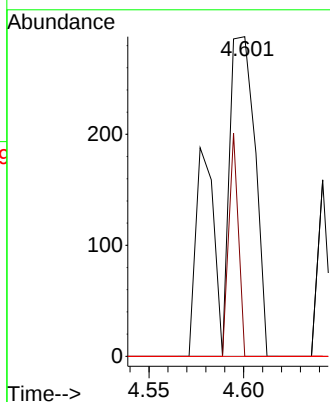


#10
Methyl Iodide
Concen: 6.994 ug/l
RT: 4.601 min Scan# 41
Delta R.T. 0.024 min
Lab File: VN087904.D
Acq: 19 Sep 2025 12:20

Instrument :
MSVOA_N
ClientSampleId :

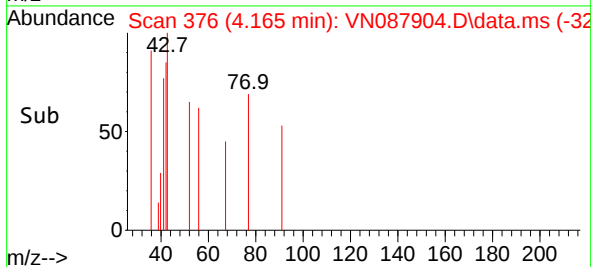
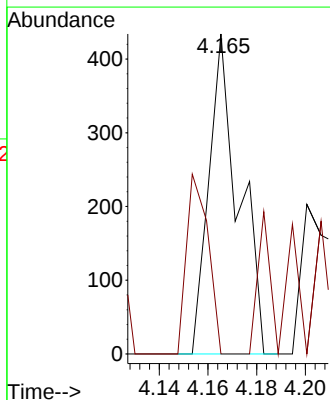
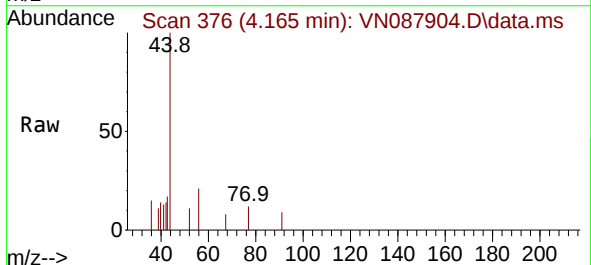


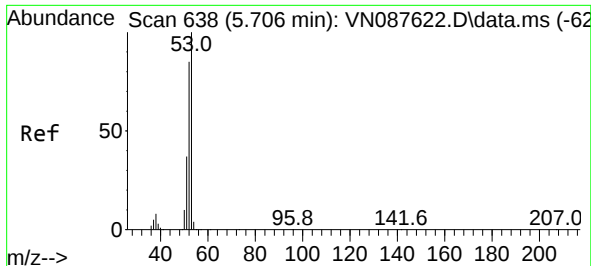
Tgt Ion:142 Resp: 390
Ion Ratio Lower Upper
142 100
127 0.0 38.0 57.0#
141 0.0 12.0 18.0#



#13
Acrolein
Concen: 0.484 ug/l
RT: 4.165 min Scan# 376
Delta R.T. -0.006 min
Lab File: VN087904.D
Acq: 19 Sep 2025 12:20

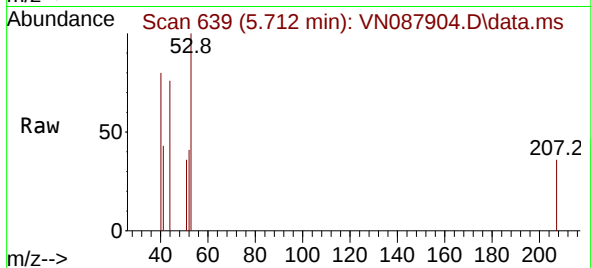
Tgt Ion: 56 Resp: 370
Ion Ratio Lower Upper
56 100
55 40.5 57.3 85.9#



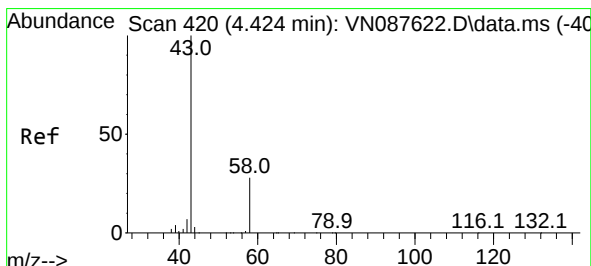
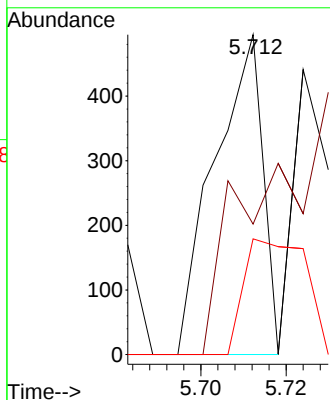
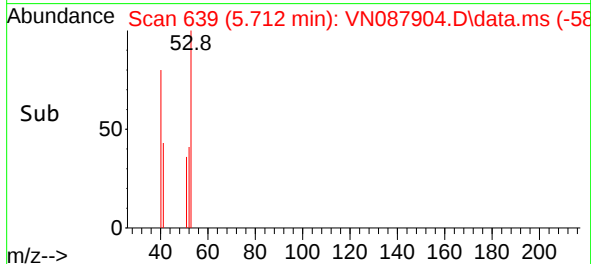


#15
Acrylonitrile
Concen: 0.222 ug/l
RT: 5.712 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN087904.D
Acq: 19 Sep 2025 12:20

Instrument :
MSVOA_N
ClientSampleId :

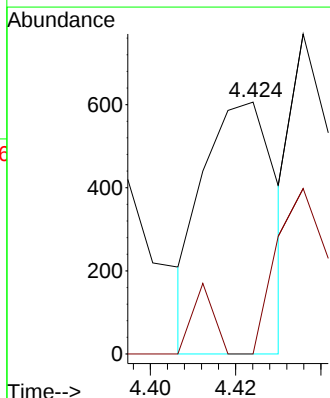
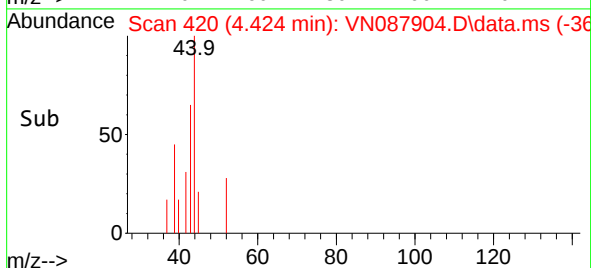
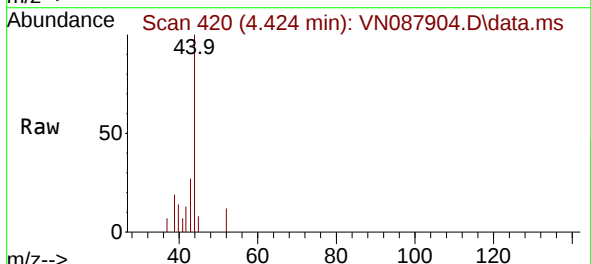


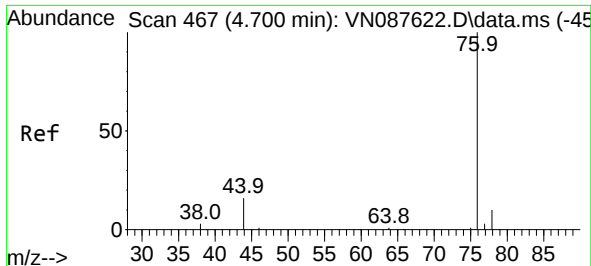
Tgt Ion: 53 Resp: 389
Ion Ratio Lower Upper
53 100
52 0.0 67.6 101.4#
51 46.3 30.1 45.1#



#16
Acetone
Concen: 0.369 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.000 min
Lab File: VN087904.D
Acq: 19 Sep 2025 12:20

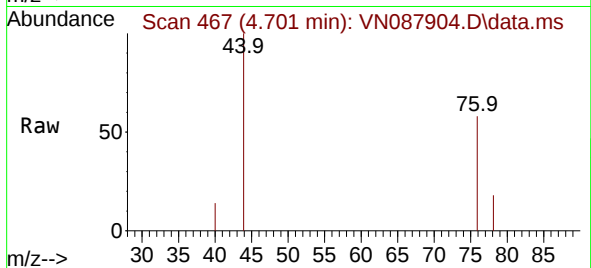
Tgt Ion: 43 Resp: 719
Ion Ratio Lower Upper
43 100
58 0.0 22.6 33.8#



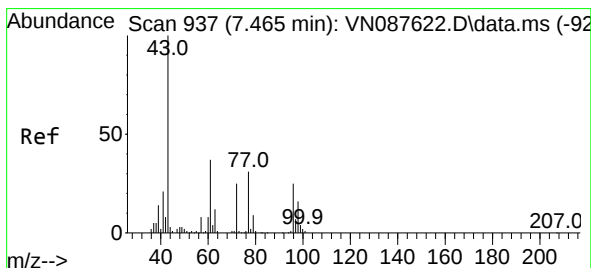
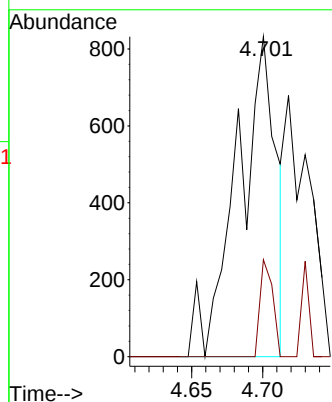
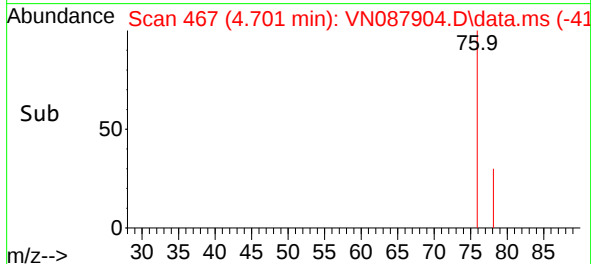


#17
Carbon Disulfide
Concen: 0.229 ug/l
RT: 4.701 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN087904.D
Acq: 19 Sep 2025 12:20

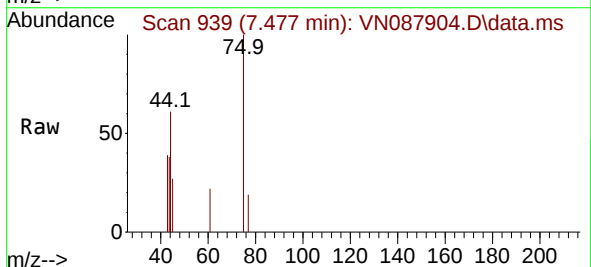
Instrument :
MSVOA_N
ClientSampleId :



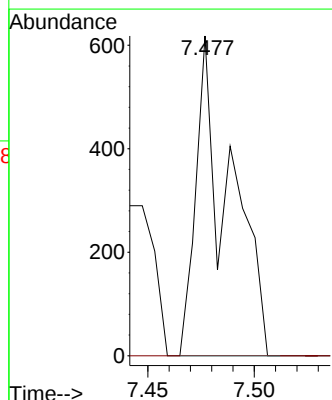
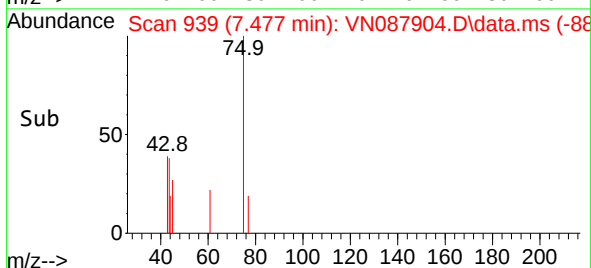
Tgt Ion: 76 Resp: 1588
Ion Ratio Lower Upper
76 100
78 30.3 7.6 11.4#

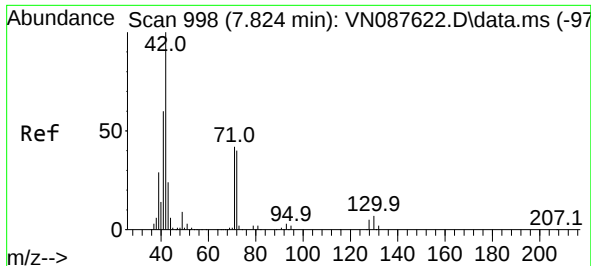


#25
2-Butanone
Concen: 0.264 ug/l
RT: 7.477 min Scan# 939
Delta R.T. 0.012 min
Lab File: VN087904.D
Acq: 19 Sep 2025 12:20



Tgt Ion: 43 Resp: 678
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#

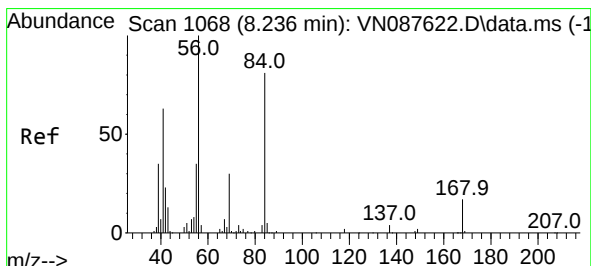
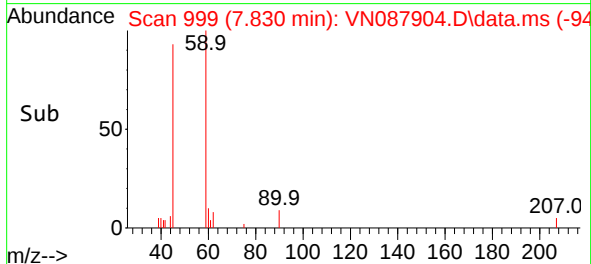
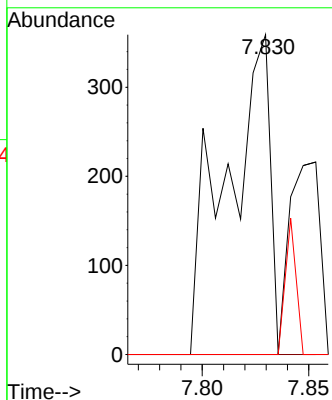
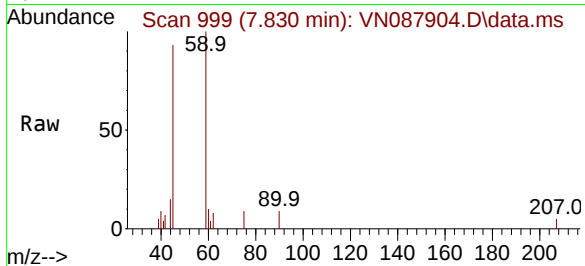




#29
Tetrahydrofuran
Concen: 0.309 ug/l
RT: 7.830 min Scan# 998
Delta R.T. 0.006 min
Lab File: VN087904.D
Acq: 19 Sep 2025 12:20

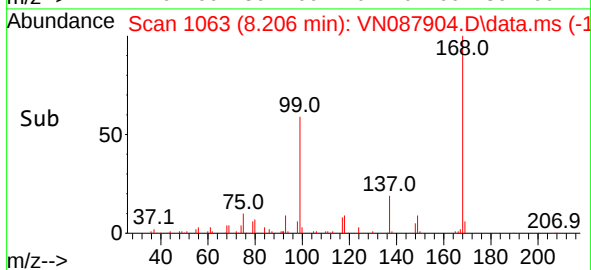
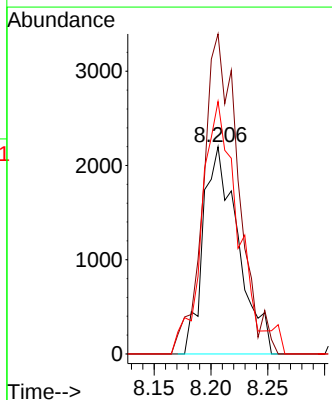
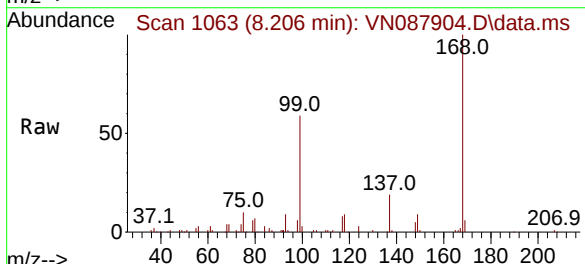
Instrument :
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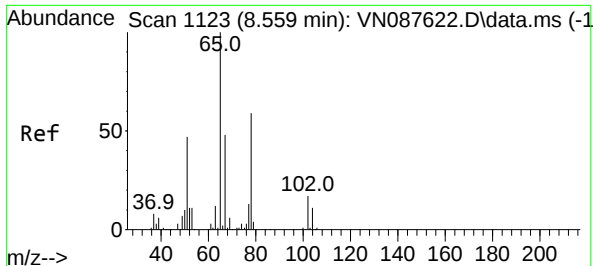
Tgt Ion: 42 Resp: 511
Ion Ratio Lower Upper
42 100
72 0.0 33.7 50.5#
71 0.0 31.9 47.9#



#31
Cyclohexane
Concen: 1.040 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.029 min
Lab File: VN087904.D
Acq: 19 Sep 2025 12:20

Tgt Ion: 56 Resp: 4687
Ion Ratio Lower Upper
56 100
69 154.4 23.7 35.5#
84 111.2 64.7 97.1#





#33

1,2-Dichloroethane-d4

Concen: 45.542 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN087904.D

Acq: 19 Sep 2025 12:20

Instrument :

MSVOA_N

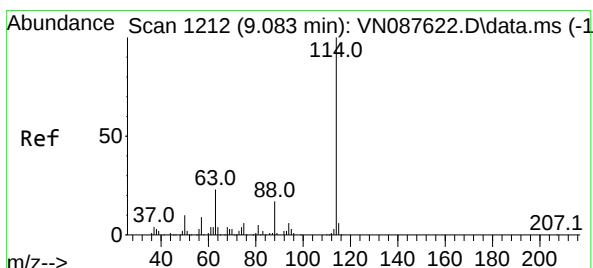
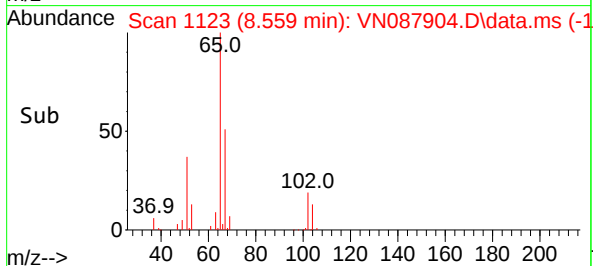
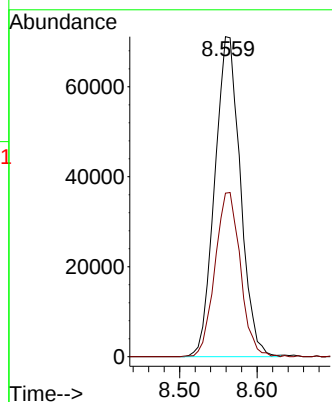
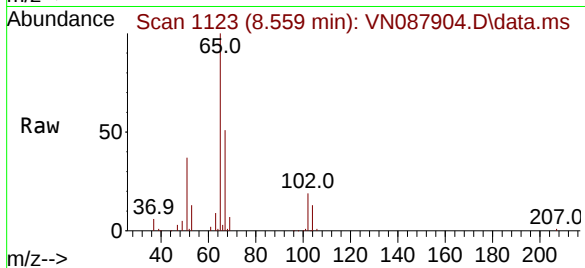
ClientSampleId :

Tgt Ion: 65 Resp: 163181

Ion Ratio Lower Upper

65 100

67 50.9 0.0 100.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN087904.D

Acq: 19 Sep 2025 12:20

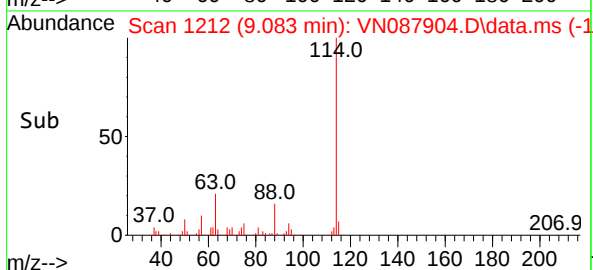
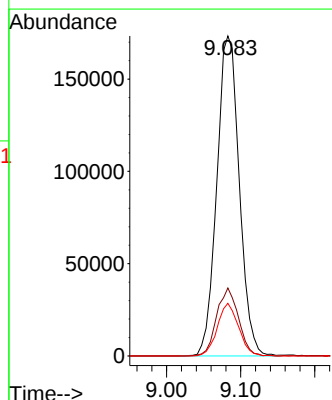
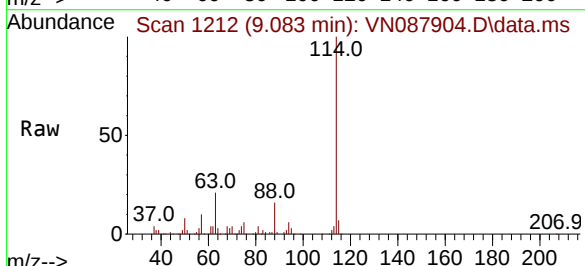
Tgt Ion: 114 Resp: 365258

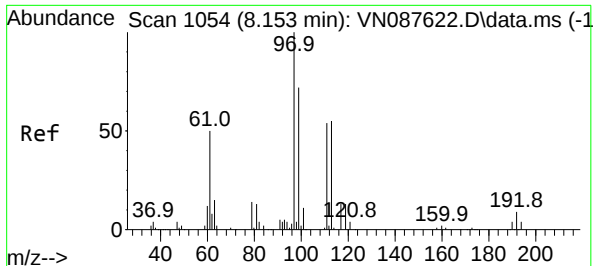
Ion Ratio Lower Upper

114 100

63 21.3 0.0 45.2

88 16.5 0.0 33.4





#35

Dibromofluoromethane

Concen: 51.440 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.000 min

Lab File: VN087904.D

Acq: 19 Sep 2025 12:20

Instrument :

MSVOA_N

ClientSampleId :

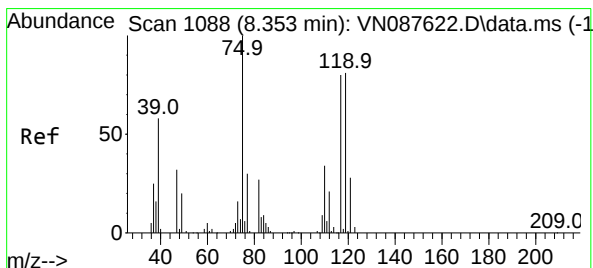
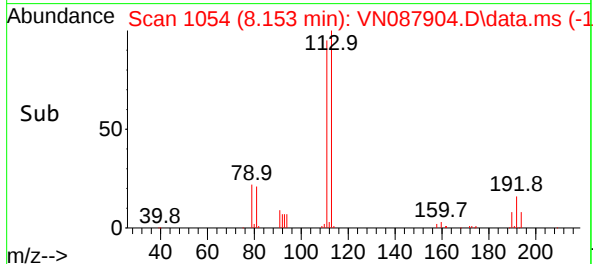
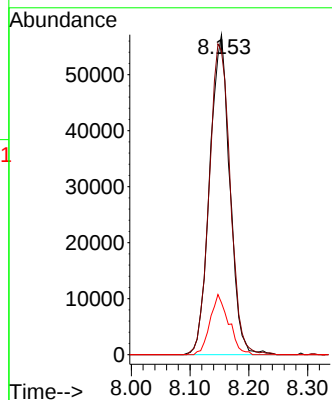
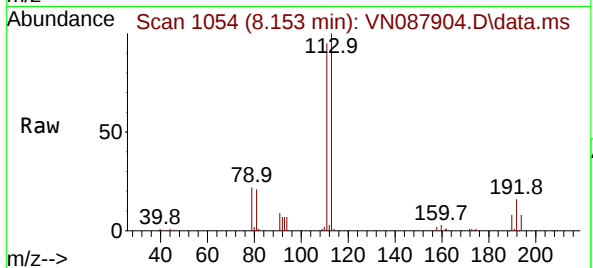
Tgt Ion:113 Resp: 135656

Ion Ratio Lower Upper

113 100

111 101.4 82.8 124.2

192 17.5 12.8 19.2



#36

1,1-Dichloropropene

Concen: 4.019 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN087904.D

Acq: 19 Sep 2025 12:20

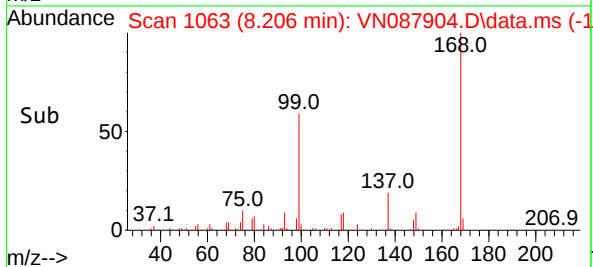
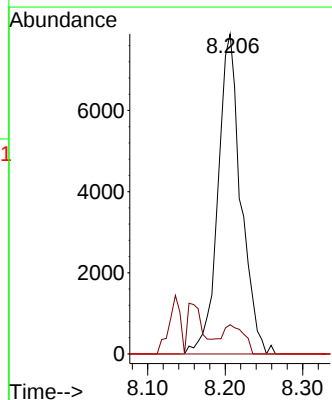
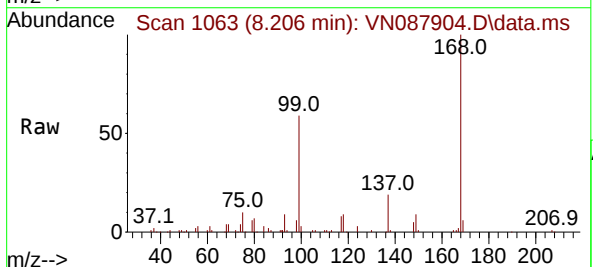
Tgt Ion: 75 Resp: 16261

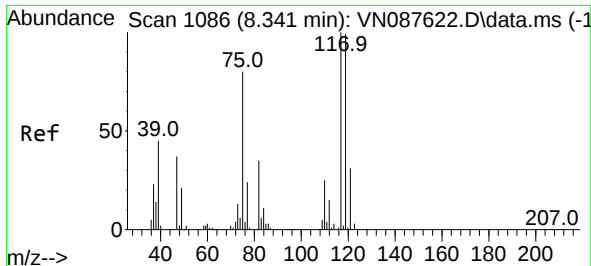
Ion Ratio Lower Upper

75 100

110 9.2 15.9 47.6#

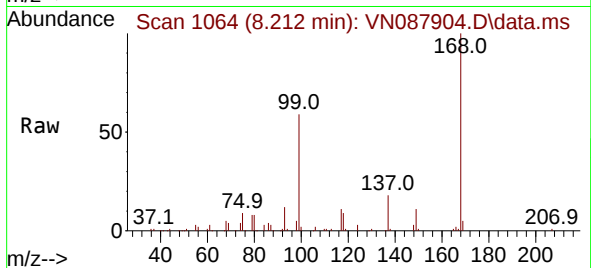
77 0.0 24.4 36.6#



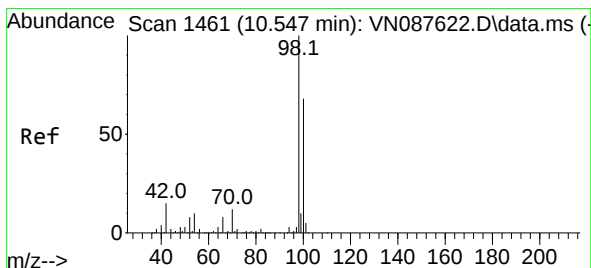
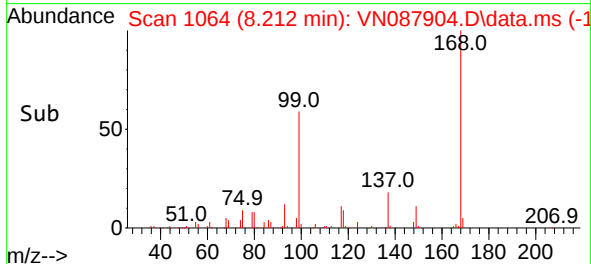
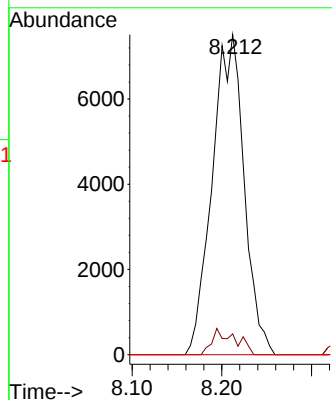


#38
Carbon Tetrachloride
Concen: 4.639 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.129 min
Lab File: VN087904.D
Acq: 19 Sep 2025 12:20

Instrument :
MSVOA_N
ClientSampleId :

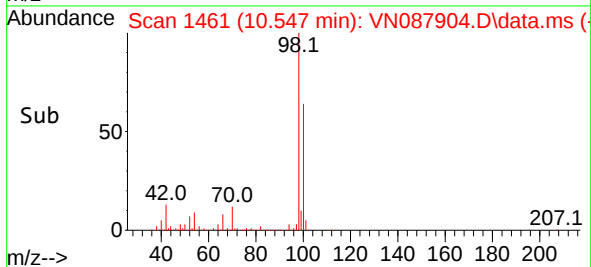
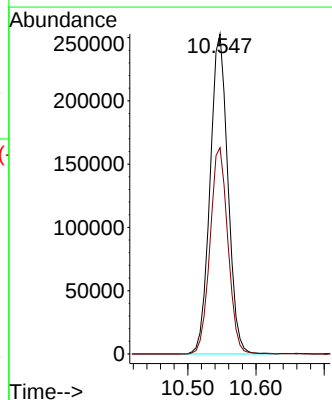
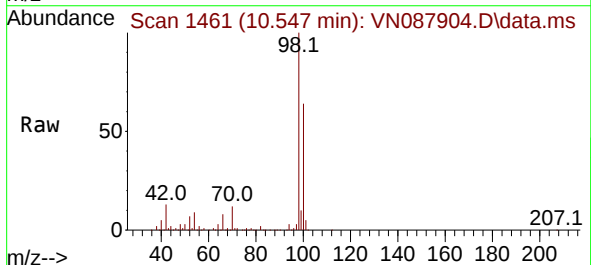


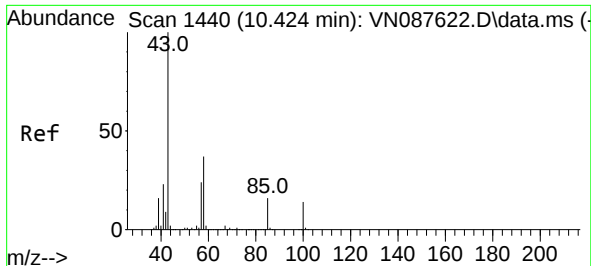
Tgt Ion:117 Resp: 18530
Ion Ratio Lower Upper
117 100
119 6.5 79.0 118.6#
121 0.0 25.0 37.6#



#50
Toluene-d8
Concen: 46.532 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087904.D
Acq: 19 Sep 2025 12:20

Tgt Ion: 98 Resp: 459291
Ion Ratio Lower Upper
98 100
100 64.6 52.8 79.2

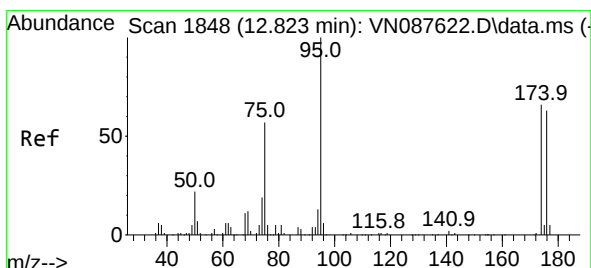
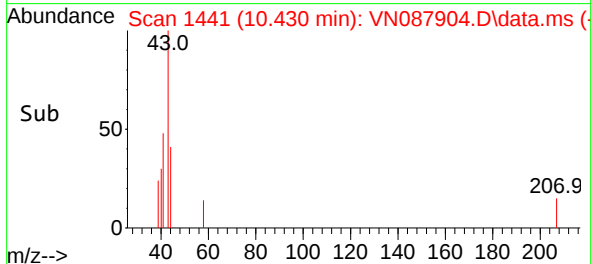
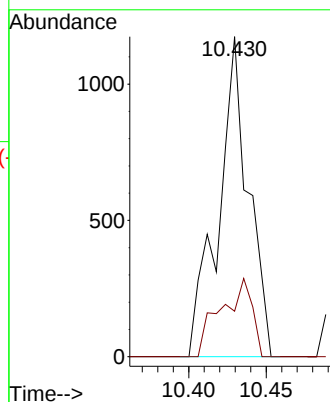
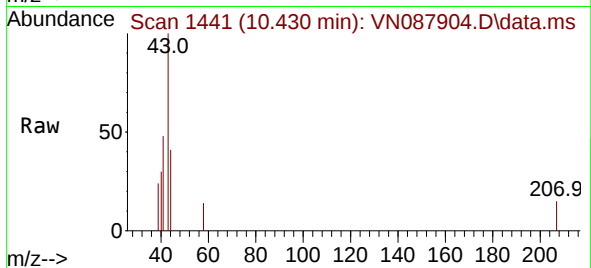




#51
4-Methyl-2-Pentanone
Concen: 0.303 ug/l
RT: 10.430 min Scan# 1441
Delta R.T. 0.006 min
Lab File: VN087904.D
Acq: 19 Sep 2025 12:20

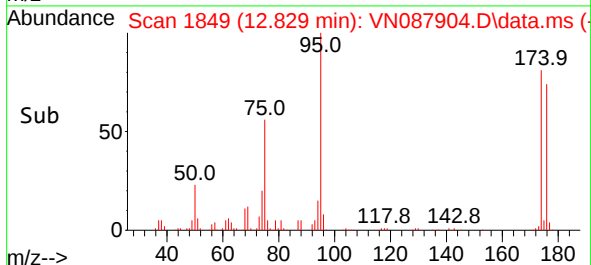
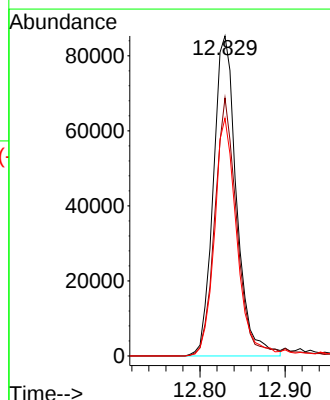
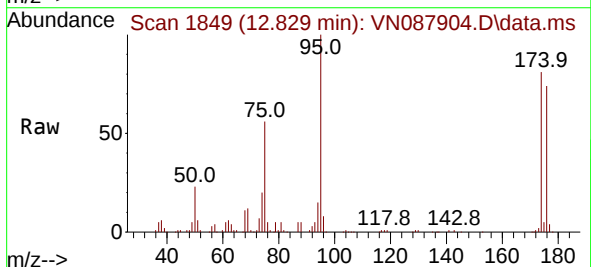
Instrument :
MSVOA_N
ClientSampleId :

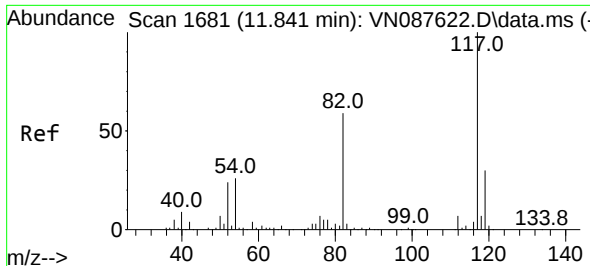
Tgt Ion: 43 Resp: 1580
Ion Ratio Lower Upper
43 100
58 25.6 29.6 44.4#



#62
4-Bromofluorobenzene
Concen: 46.084 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN087904.D
Acq: 19 Sep 2025 12:20

Tgt Ion: 95 Resp: 161766
Ion Ratio Lower Upper
95 100
174 76.7 0.0 138.4
176 71.4 0.0 132.6

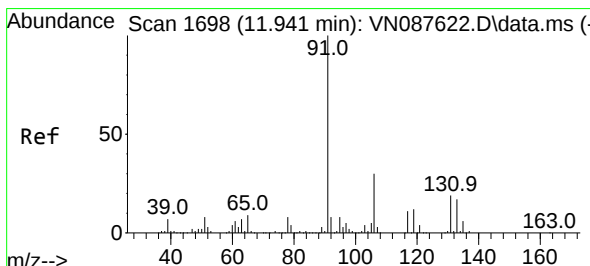
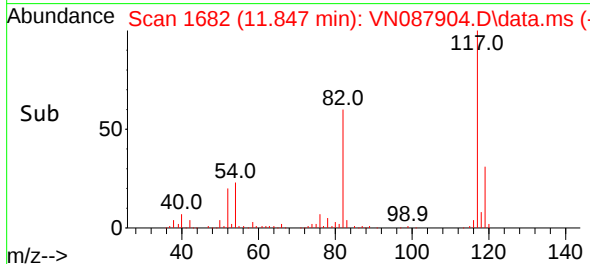
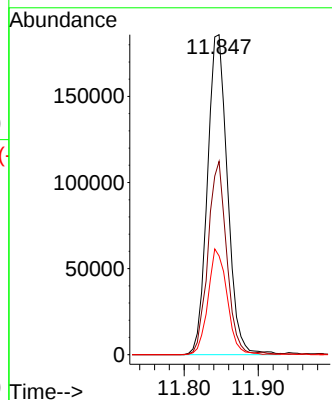
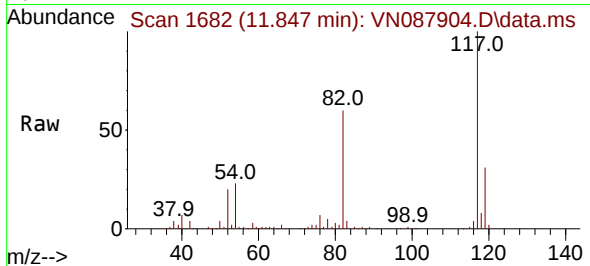




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1177
Delta R.T. 0.006 min
Lab File: VN087904.D
Acq: 19 Sep 2025 12:20

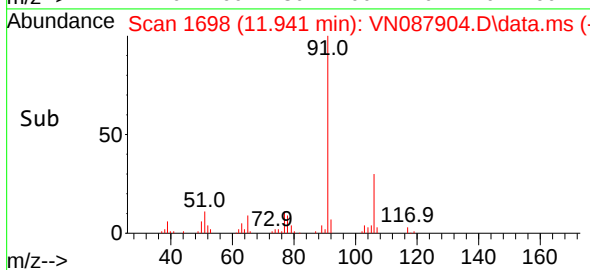
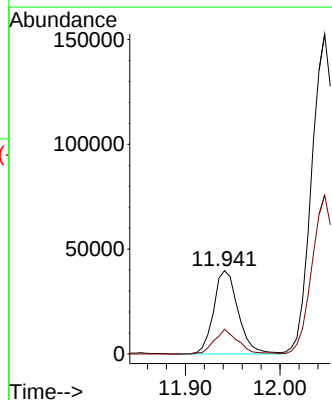
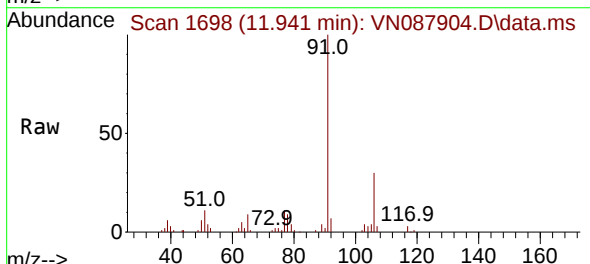
Instrument :
MSVOA_N
ClientSampleId :

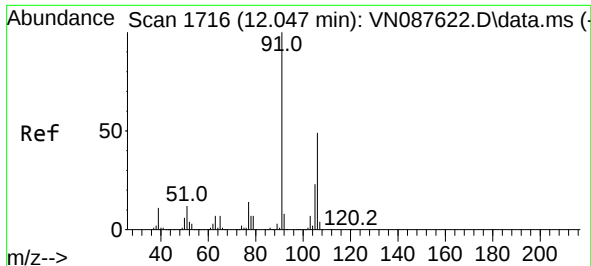
Tgt Ion:117 Resp: 349550
Ion Ratio Lower Upper
117 100
82 60.4 47.4 71.2
119 30.8 24.3 36.5



#67
Ethyl Benzene
Concen: 4.742 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN087904.D
Acq: 19 Sep 2025 12:20

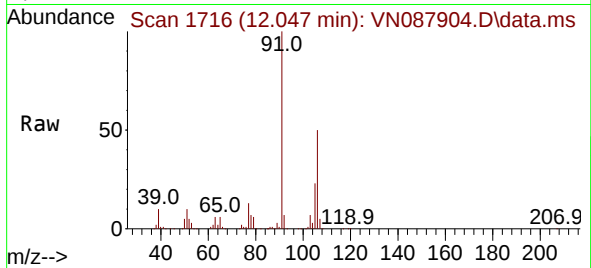
Tgt Ion: 91 Resp: 71399
Ion Ratio Lower Upper
91 100
106 29.5 24.1 36.1



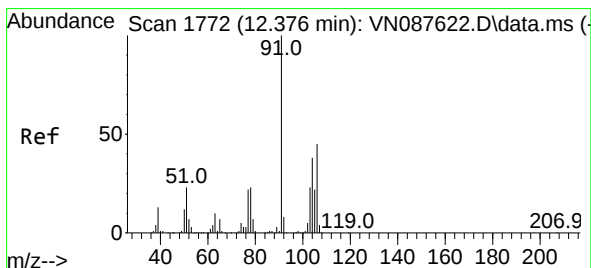
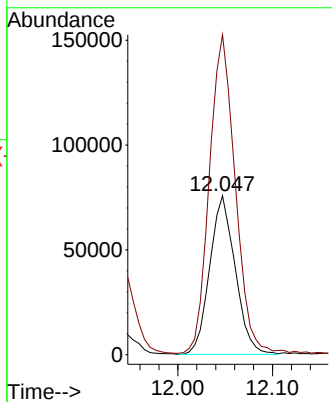
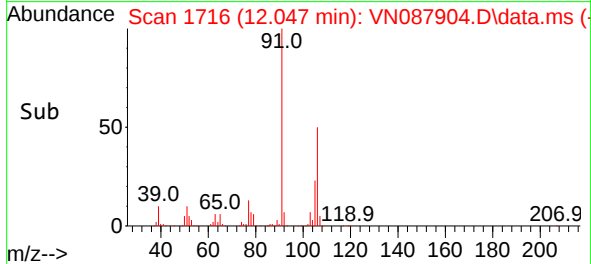


#68
m/p-Xylenes
Concen: 25.624 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. 0.000 min
Lab File: VN087904.D
Acq: 19 Sep 2025 12:20

Instrument :
MSVOA_N
ClientSampleId :

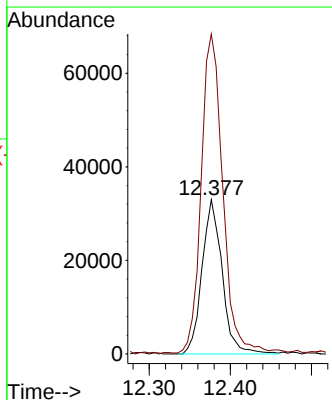
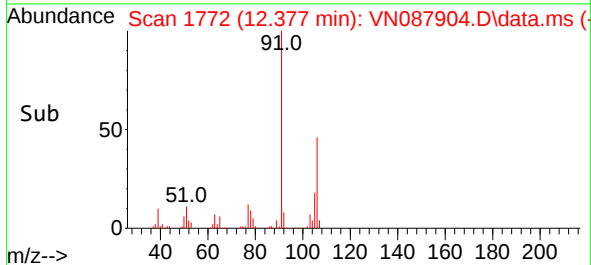
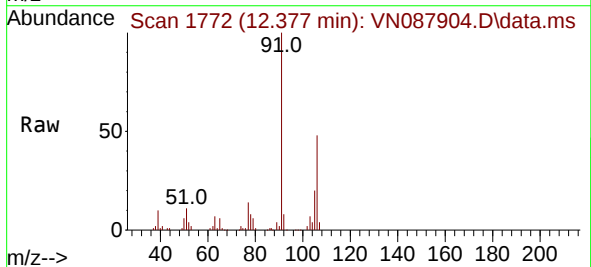


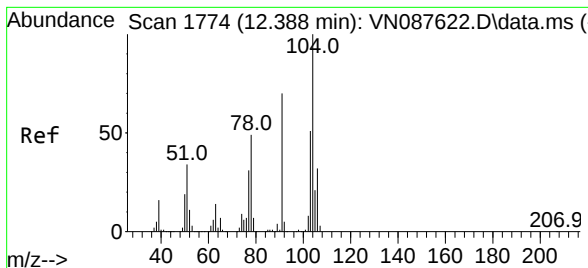
Tgt Ion:106 Resp: 141497
Ion Ratio Lower Upper
106 100
91 206.6 169.3 253.9



#69
o-Xylene
Concen: 10.505 ug/l
RT: 12.377 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VN087904.D
Acq: 19 Sep 2025 12:20

Tgt Ion:106 Resp: 56849
Ion Ratio Lower Upper
106 100
91 224.8 111.4 334.2





#70

Styrene

Concen: 0.482 ug/l

RT: 12.377 min Scan# 11

Delta R.T. -0.012 min

Lab File: VN087904.D

Acq: 19 Sep 2025 12:20

Instrument :

MSVOA_N

ClientSampleId :

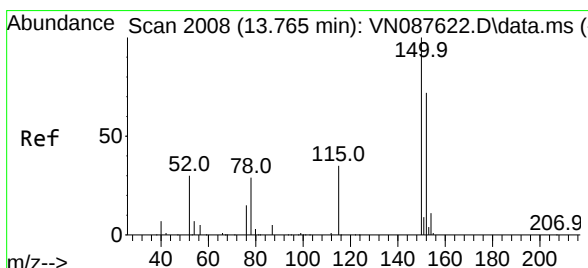
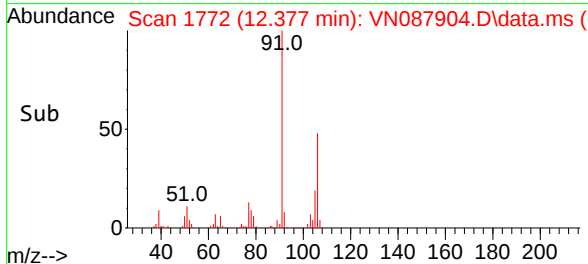
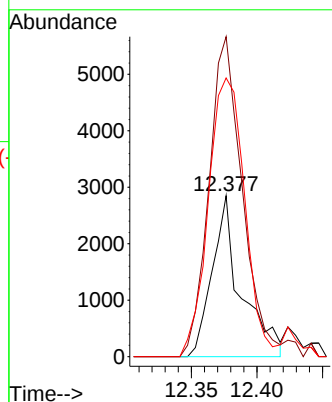
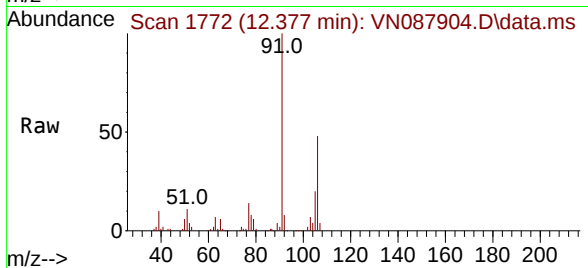
Tgt Ion:104 Resp: 4372

Ion Ratio Lower Upper

104 100

78 235.1 42.2 63.2#

103 217.8 43.4 65.2#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.771 min Scan# 2009

Delta R.T. 0.006 min

Lab File: VN087904.D

Acq: 19 Sep 2025 12:20

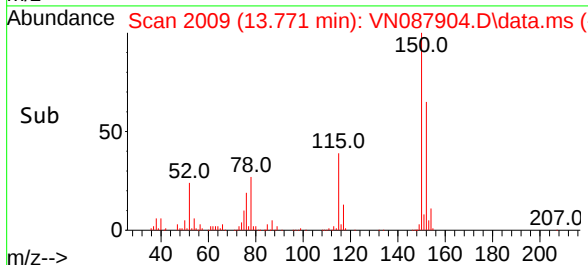
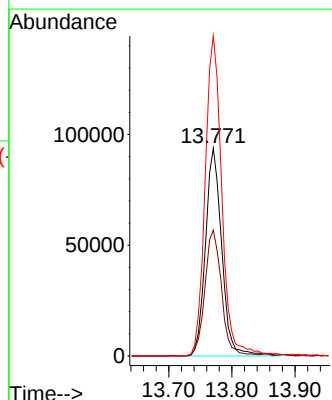
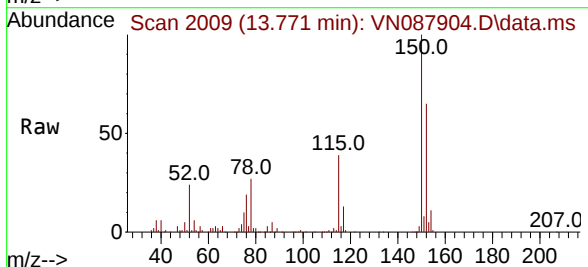
Tgt Ion:152 Resp: 168723

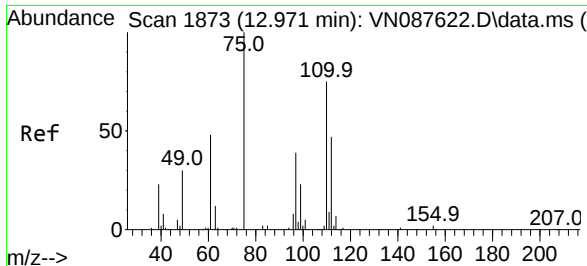
Ion Ratio Lower Upper

152 100

115 61.5 32.3 96.8

150 157.8 0.0 351.0

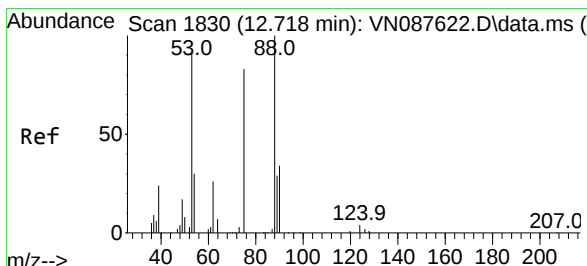
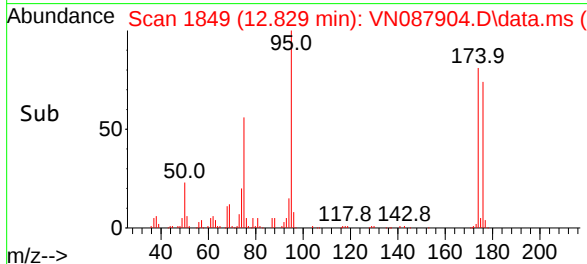
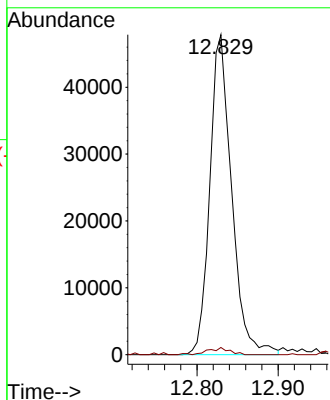
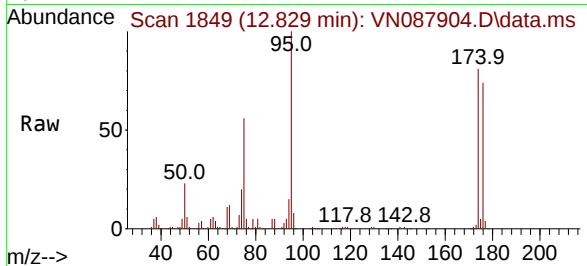




#76
1,2,3-Trichloropropane
Concen: 22.554 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN087904.D
Acq: 19 Sep 2025 12:20

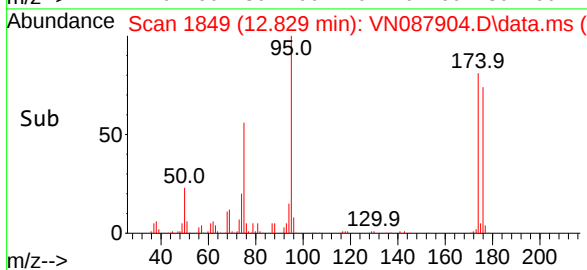
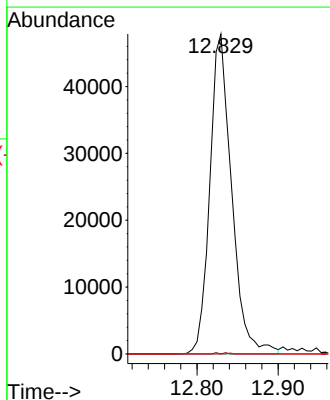
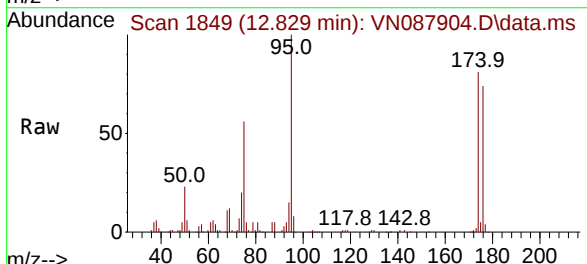
Instrument :
MSVOA_N
ClientSampleId :

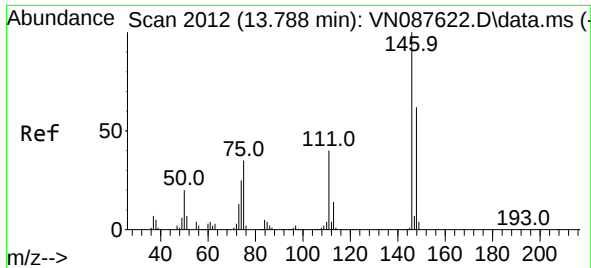
Tgt Ion: 75 Resp: 89239
Ion Ratio Lower Upper
75 100
77 2.1 89.1 267.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 59.710 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087904.D
Acq: 19 Sep 2025 12:20

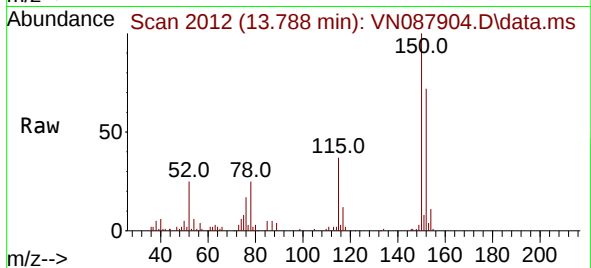
Tgt Ion: 75 Resp: 89239
Ion Ratio Lower Upper
75 100
53 0.2 101.8 152.6#
89 0.1 35.6 53.4#



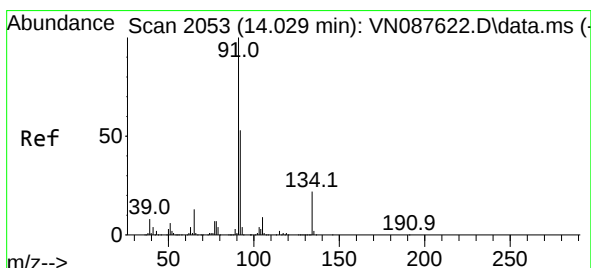
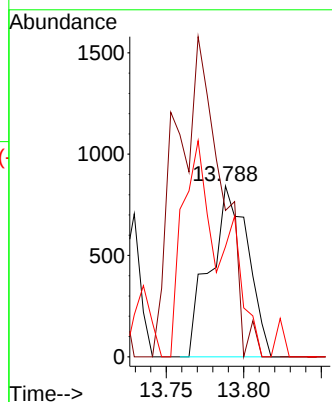
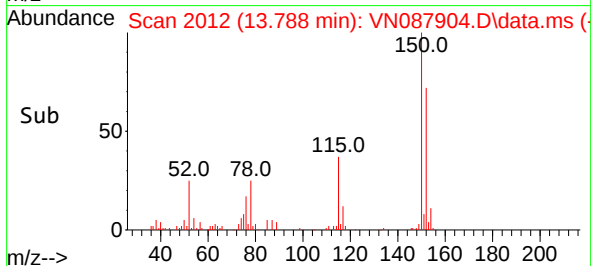


#88
 1,4-Dichlorobenzene
 Concen: 0.217 ug/l
 RT: 13.788 min Scan# 2012
 Delta R.T. 0.000 min
 Lab File: VN087904.D
 Acq: 19 Sep 2025 12:20

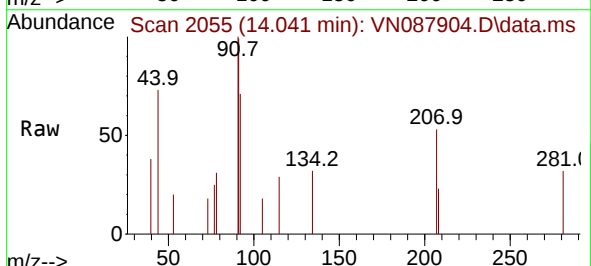
Instrument :
 MSVOA_N
 ClientSampleId :



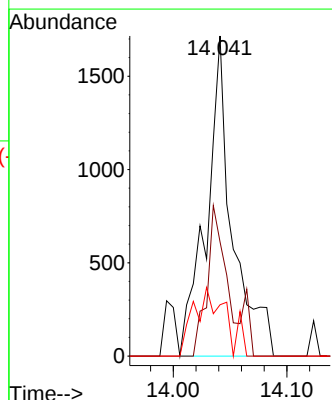
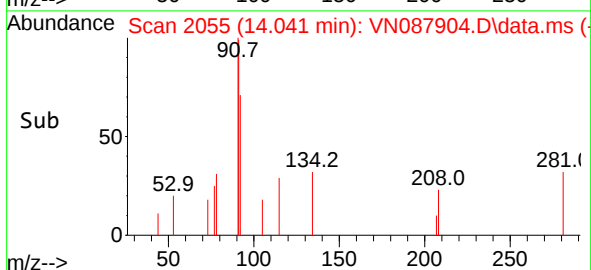
Tgt Ion:146 Resp: 1429
 Ion Ratio Lower Upper
 146 100
 111 223.9 21.0 63.0#
 148 133.7 32.0 96.0#

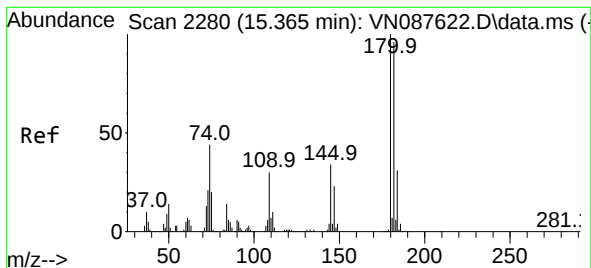


#89
 n-Butylbenzene
 Concen: 0.231 ug/l
 RT: 14.041 min Scan# 2055
 Delta R.T. 0.012 min
 Lab File: VN087904.D
 Acq: 19 Sep 2025 12:20



Tgt Ion: 91 Resp: 2713
 Ion Ratio Lower Upper
 91 100
 92 39.8 25.9 77.8
 134 26.6 11.7 35.0





#93

1,2,4-Trichlorobenzene

Concen: 0.222 ug/l

RT: 15.359 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN087904.D

Acq: 19 Sep 2025 12:20

Instrument :

MSVOA_N

ClientSampleId :

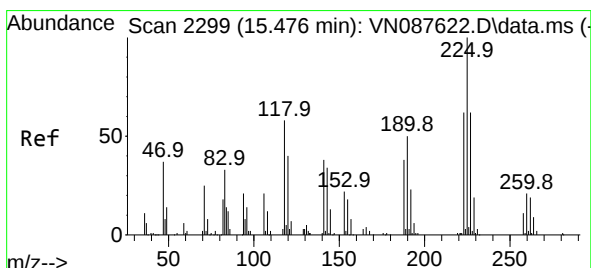
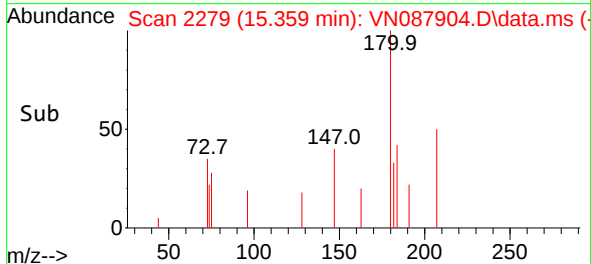
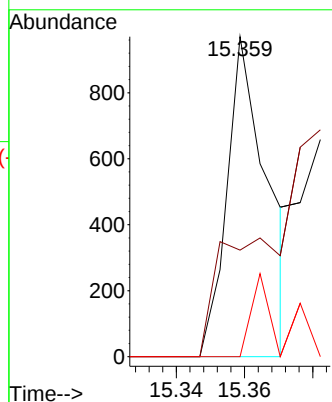
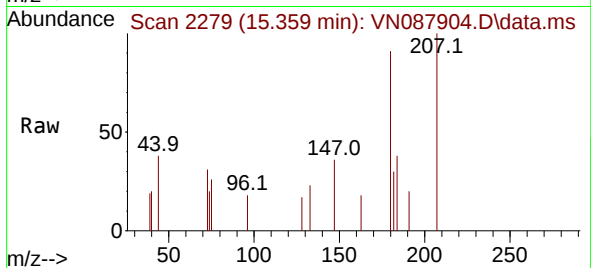
Tgt Ion:180 Resp: 802

Ion Ratio Lower Upper

180 100

182 0.0 47.6 142.9#

145 18.2 16.5 49.5



#94

Hexachlorobutadiene

Concen: 0.645 ug/l

RT: 15.465 min Scan# 2297

Delta R.T. -0.012 min

Lab File: VN087904.D

Acq: 19 Sep 2025 12:20

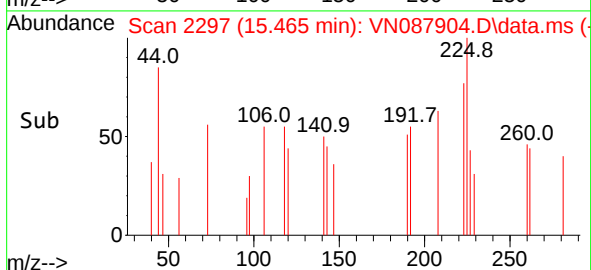
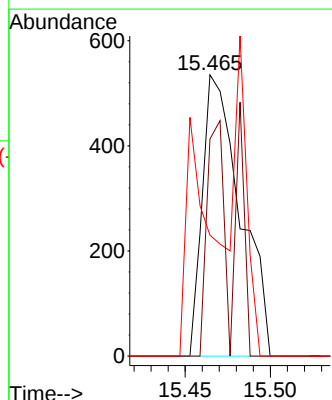
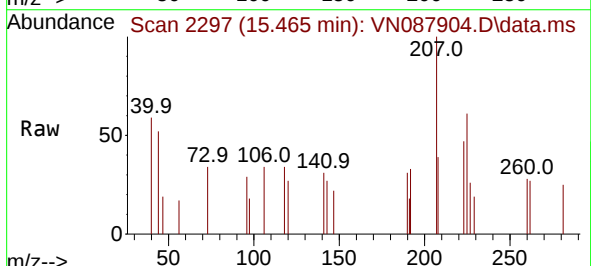
Tgt Ion:225 Resp: 829

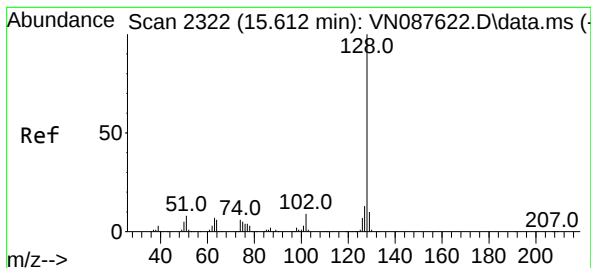
Ion Ratio Lower Upper

225 100

223 0.0 32.0 96.2#

227 50.4 32.1 96.5





#95

Naphthalene

Concen: 0.246 ug/l

RT: 15.623 min Scan# 21

Delta R.T. 0.012 min

Lab File: VN087904.D

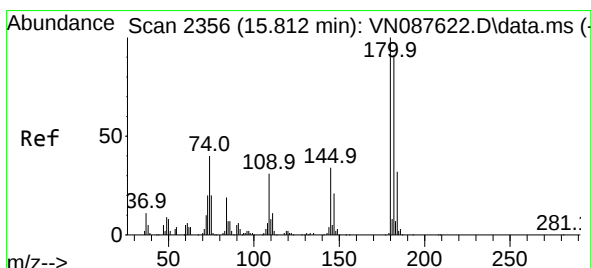
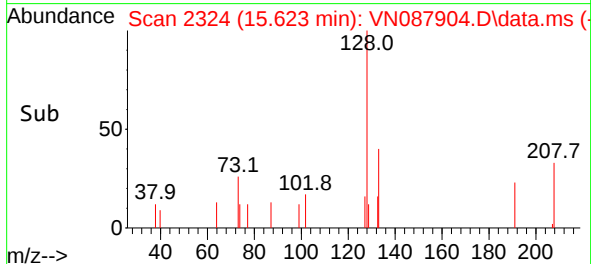
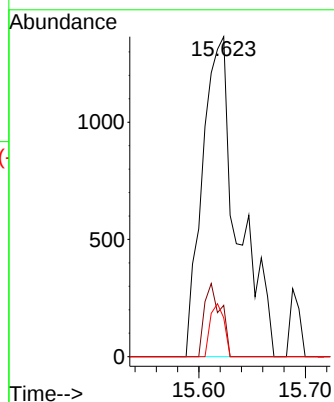
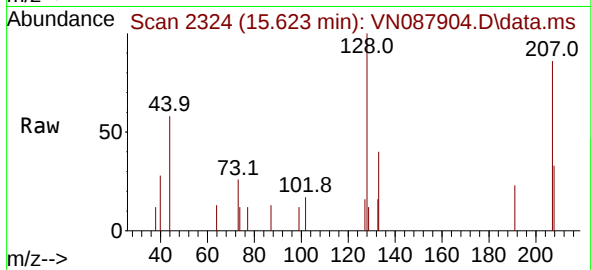
Acq: 19 Sep 2025 12:20

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:128	Resp:	3144
Ion Ratio	Lower	Upper
128	100	
127	10.7	10.6 15.8
129	6.5	8.6 12.8#



#96

1,2,3-Trichlorobenzene

Concen: 0.237 ug/l

RT: 15.817 min Scan# 2357

Delta R.T. 0.006 min

Lab File: VN087904.D

Acq: 19 Sep 2025 12:20

Tgt Ion:180	Resp:	836
Ion Ratio	Lower	Upper
180	100	
182	120.6	46.8 140.3
145	25.8	17.3 52.0

