

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082225\
 Data File : VN087634.D
 Acq On : 22 Aug 2025 12:37
 Operator : JC\MD
 Sample : Q2920-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FB

Quant Time: Aug 25 01:18:56 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)

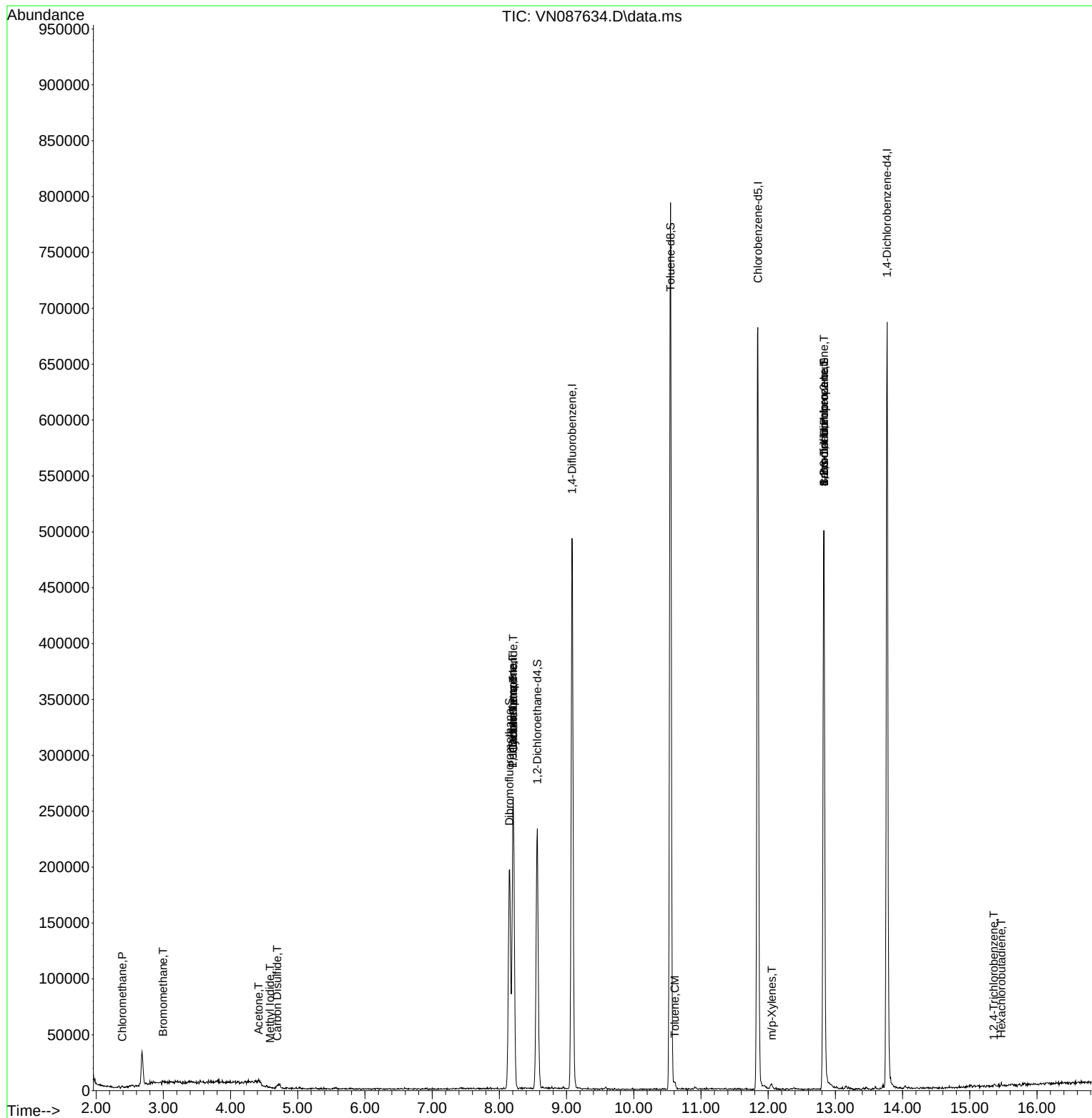
Internal Standards						
1) Pentafluorobenzene	8.200	168	176921	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	399655	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	368259	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	172310	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	189573	52.297	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 104.600%		
35) Dibromofluoromethane	8.147	113	138413	47.968	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 95.940%		
50) Toluene-d8	10.547	98	514063	47.599	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 95.200%		
62) 4-Bromofluorobenzene	12.829	95	177442	46.199	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 92.400%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.389	50	1289	0.499	ug/l #	42
5) Bromomethane	2.995	94	739	0.478	ug/l #	3
10) Methyl Iodide	4.589	142	229	6.917	ug/l #	80
16) Acetone	4.418	43	2846	1.442	ug/l #	88
17) Carbon Disulfide	4.695	76	2798	0.398	ug/l #	68
20) Methylene Chloride	5.265	84	170	Below Cal	#	54
31) Cyclohexane	8.206	56	6088	1.335	ug/l #	26
36) 1,1-Dichloropropene	8.200	75	17760	4.012	ug/l #	49
38) Carbon Tetrachloride	8.206	117	20829	4.766	ug/l #	13
52) Toluene	10.612	92	2480	0.295	ug/l	76
68) m/p-Xylenes	12.053	106	1648	0.283	ug/l	94
71) Bromoform	12.829	173	1830	0.785	ug/l #	1
76) 1,2,3-Trichloropropane	12.829	75	105562	26.124	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	105562	69.161	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.359	180	827	0.225	ug/l	88
94) Hexachlorobutadiene	15.470	225	348	0.265	ug/l #	62

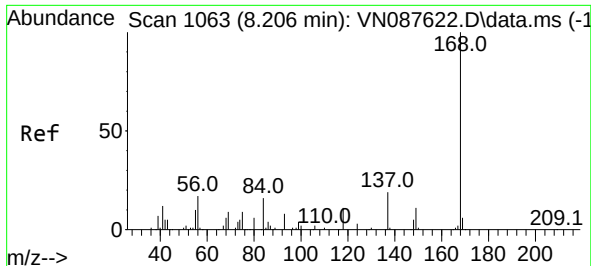
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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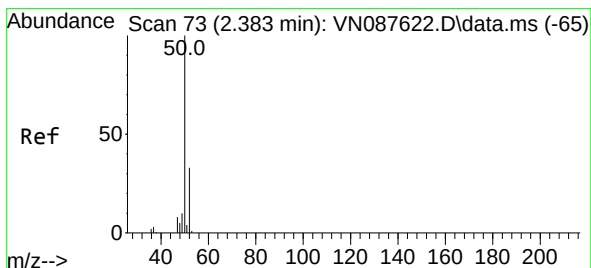
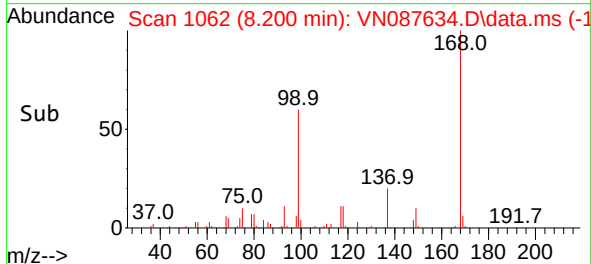
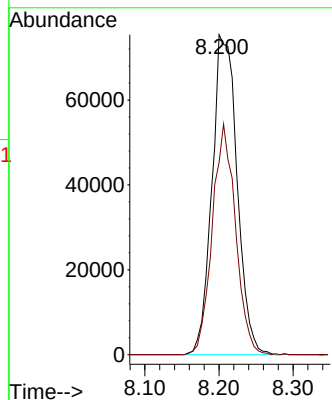
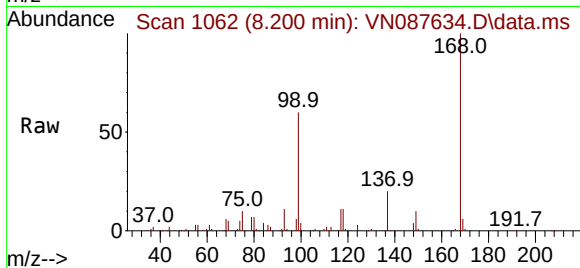




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.200 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN087634.D
Acq: 22 Aug 2025 12:37

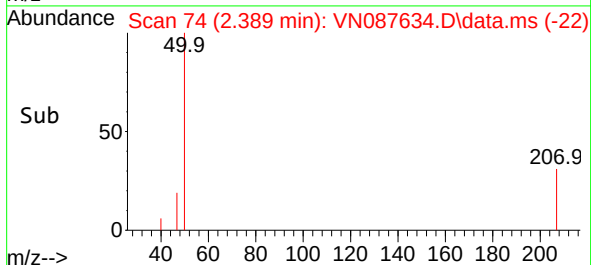
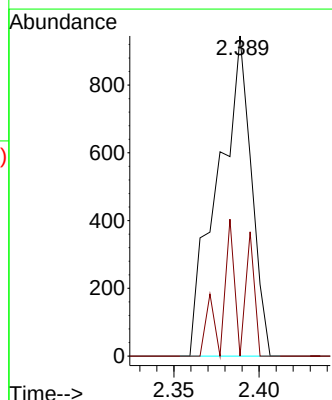
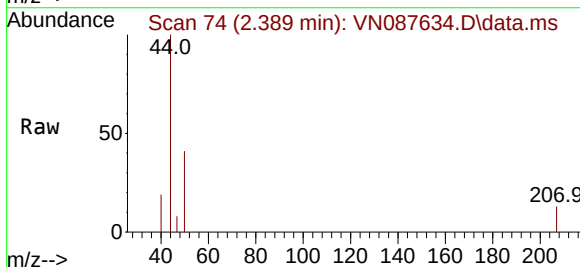
Instrument :
MSVOA_N
ClientSampleId :
FB

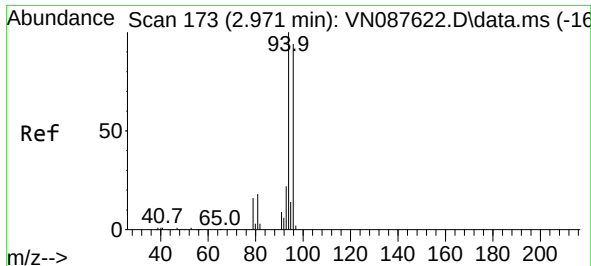
Tgt Ion:168 Resp: 176921
Ion Ratio Lower Upper
168 100
99 60.0 57.2 85.8



#3
Chloromethane
Concen: 0.499 ug/l
RT: 2.389 min Scan# 74
Delta R.T. 0.006 min
Lab File: VN087634.D
Acq: 22 Aug 2025 12:37

Tgt Ion: 50 Resp: 1289
Ion Ratio Lower Upper
50 100
52 0.0 26.2 39.4#

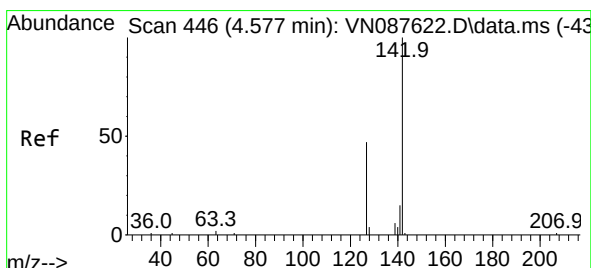
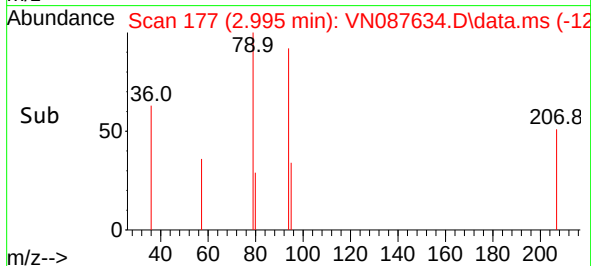
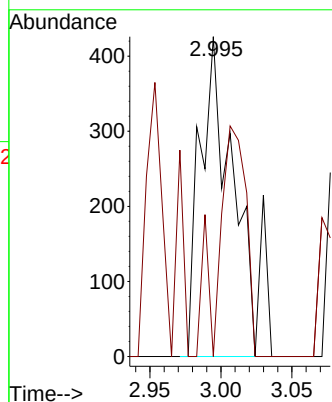
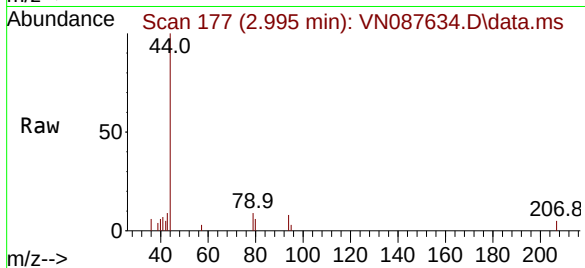




#5
Bromomethane
Concen: 0.478 ug/l
RT: 2.995 min Scan# 11
Delta R.T. 0.023 min
Lab File: VN087634.D
Acq: 22 Aug 2025 12:37

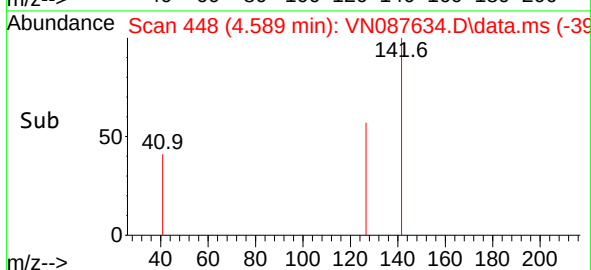
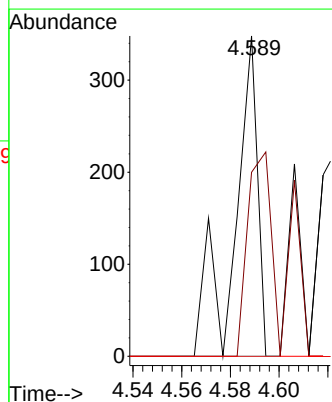
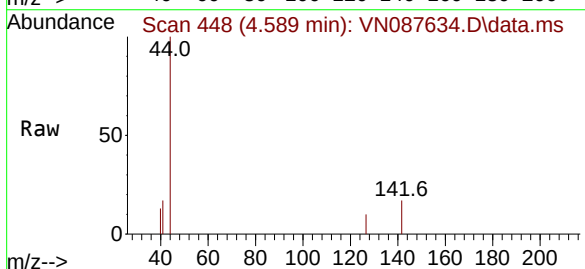
Instrument :
MSVOA_N
ClientSampleId :
FB

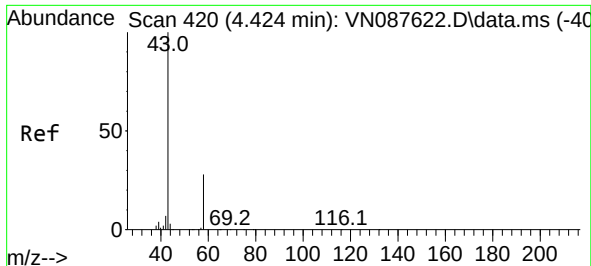
Tgt Ion: 94 Resp: 739
Ion Ratio Lower Upper
94 100
96 0.0 75.4 113.2#



#10
Methyl Iodide
Concen: 6.917 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.012 min
Lab File: VN087634.D
Acq: 22 Aug 2025 12:37

Tgt Ion: 142 Resp: 229
Ion Ratio Lower Upper
142 100
127 57.5 38.0 57.0#
141 0.0 12.0 18.0#





#16

Acetone

Concen: 1.442 ug/l

RT: 4.418 min Scan# 419

Delta R.T. -0.006 min

Lab File: VN087634.D

Acq: 22 Aug 2025 12:37

Instrument :

MSVOA_N

ClientSampleId :

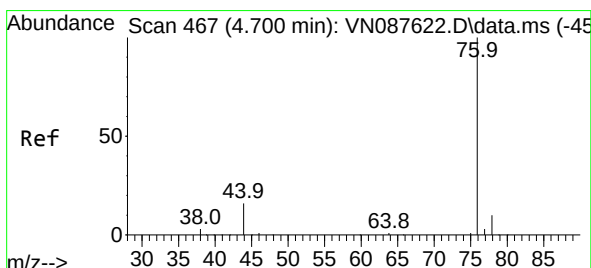
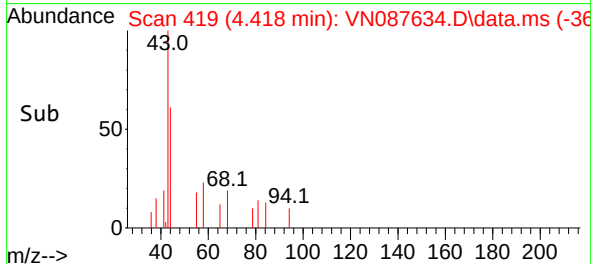
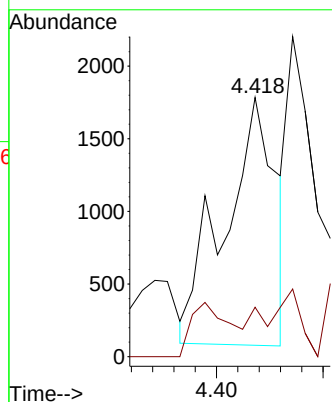
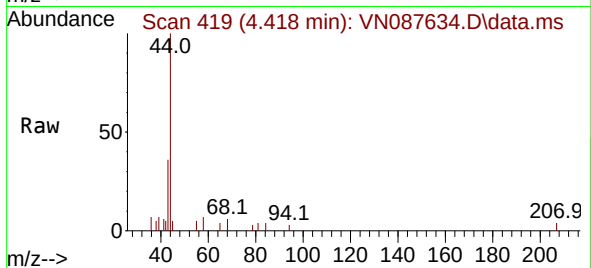
FB

Tgt Ion: 43 Resp: 2846

Ion Ratio Lower Upper

43 100

58 22.1 22.6 33.8#



#17

Carbon Disulfide

Concen: 0.398 ug/l

RT: 4.695 min Scan# 466

Delta R.T. -0.006 min

Lab File: VN087634.D

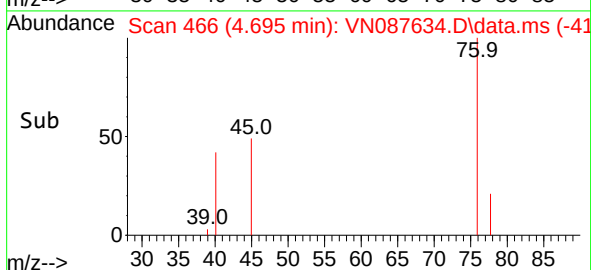
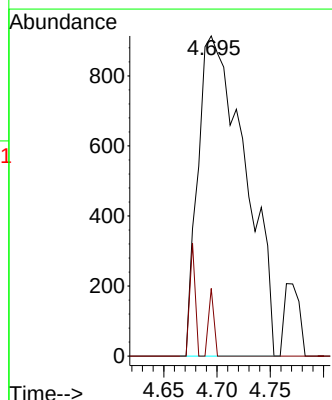
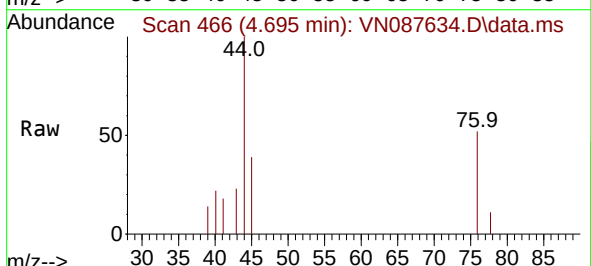
Acq: 22 Aug 2025 12:37

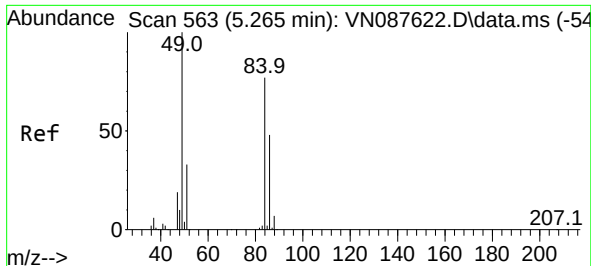
Tgt Ion: 76 Resp: 2798

Ion Ratio Lower Upper

76 100

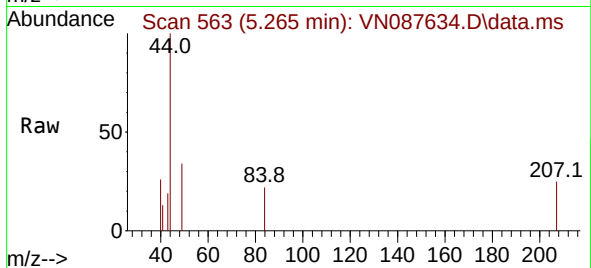
78 21.1 7.6 11.4#



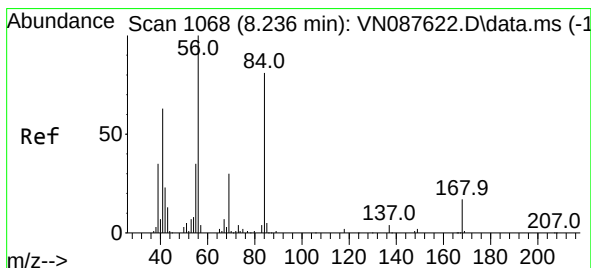
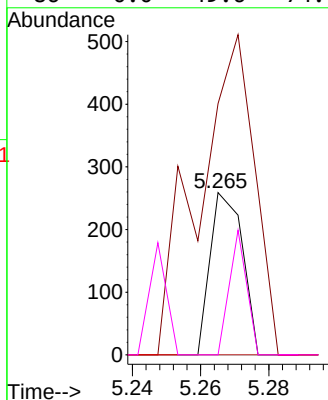
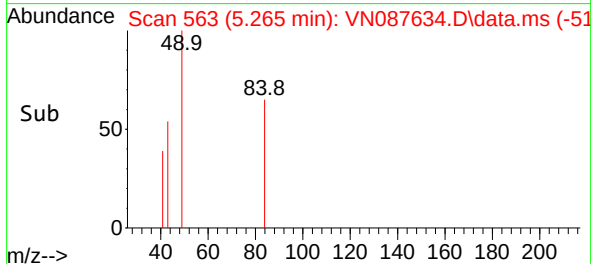


#20
Methylene Chloride
Concen: Below Cal
RT: 5.265 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN087634.D
Acq: 22 Aug 2025 12:37

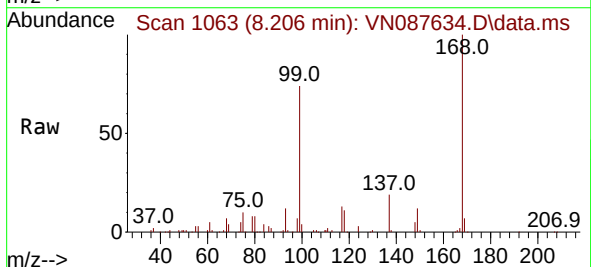
Instrument :
MSVOA_N
ClientSampleId :
FB



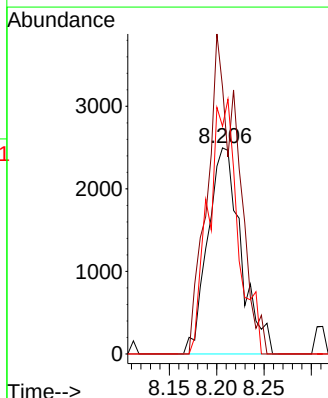
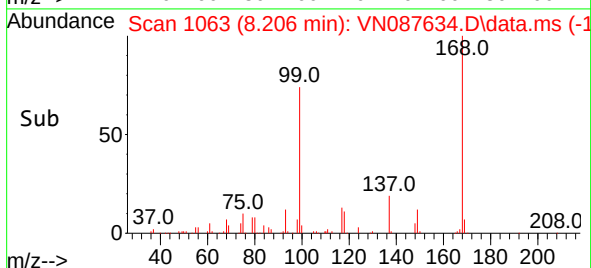
Tgt Ion:	84	Resp:	170
Ion	Ratio	Lower	Upper
84	100		
49	154.8	103.4	155.2
51	0.0	33.8	50.8#
86	0.0	49.6	74.4#

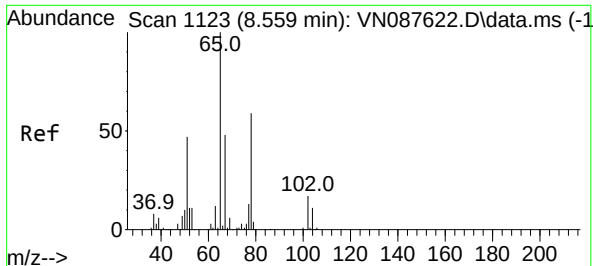


#31
Cyclohexane
Concen: 1.335 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.029 min
Lab File: VN087634.D
Acq: 22 Aug 2025 12:37



Tgt Ion:	56	Resp:	6088
Ion	Ratio	Lower	Upper
56	100		
69	129.5	23.7	35.5#
84	110.5	64.7	97.1#





#33

1,2-Dichloroethane-d4

Concen: 52.297 ug/l

RT: 8.565 min Scan# 1123

Delta R.T. 0.006 min

Lab File: VN087634.D

Acq: 22 Aug 2025 12:37

Instrument :

MSVOA_N

ClientSampleId :

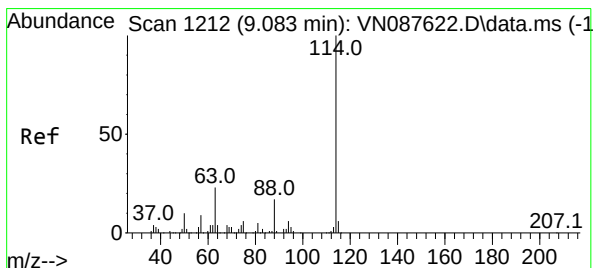
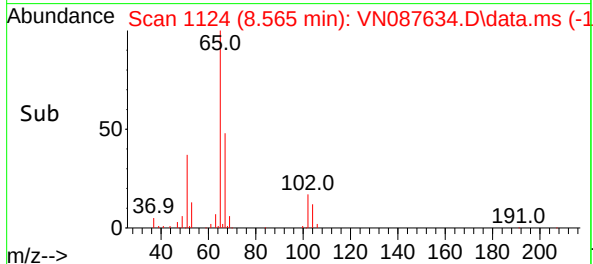
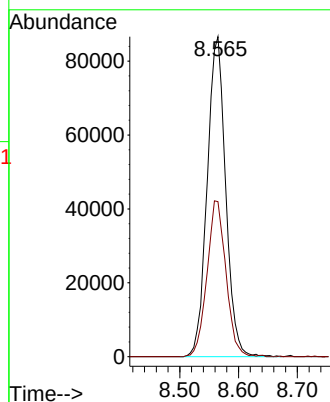
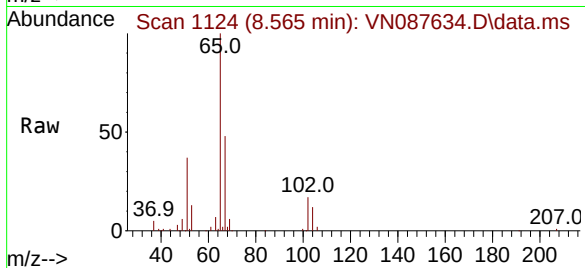
FB

Tgt Ion: 65 Resp: 189573

Ion Ratio Lower Upper

65 100

67 49.9 0.0 100.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN087634.D

Acq: 22 Aug 2025 12:37

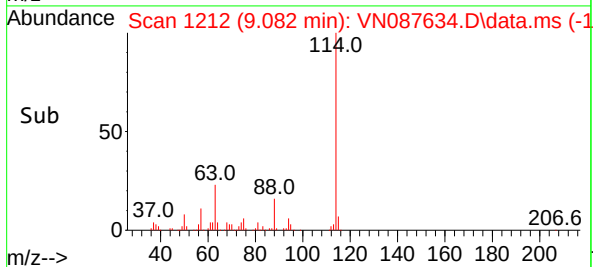
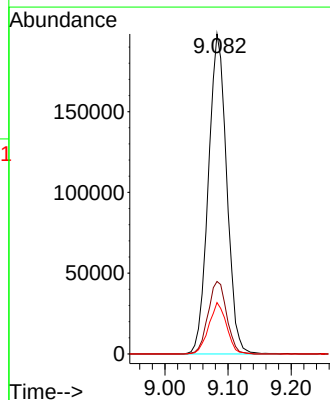
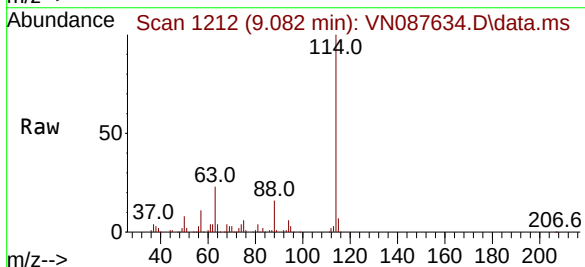
Tgt Ion: 114 Resp: 399655

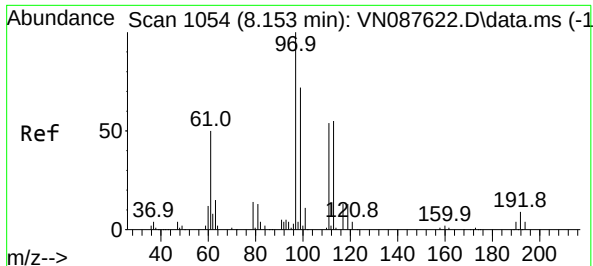
Ion Ratio Lower Upper

114 100

63 22.7 0.0 45.2

88 16.1 0.0 33.4





#35

Dibromofluoromethane

Concen: 47.968 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN087634.D

Acq: 22 Aug 2025 12:37

Instrument :

MSVOA_N

ClientSampleId :

FB

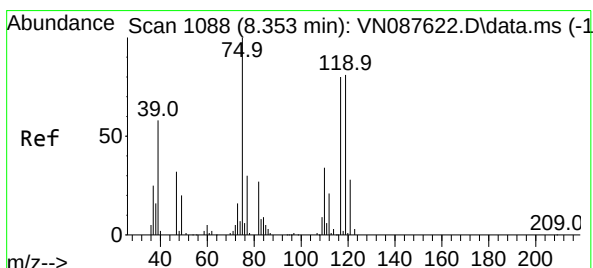
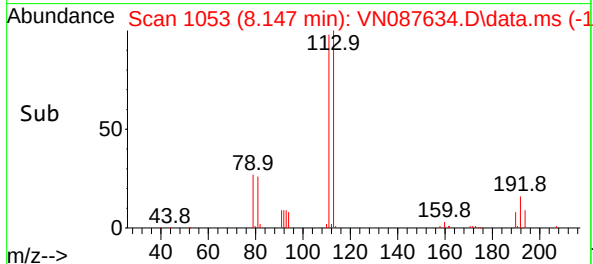
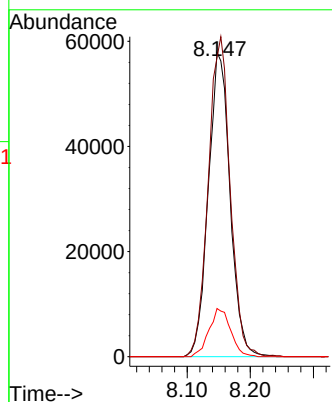
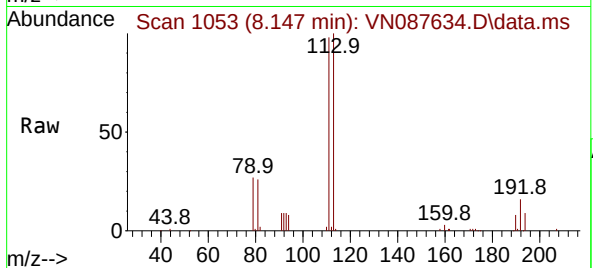
Tgt Ion:113 Resp: 138413

Ion Ratio Lower Upper

113 100

111 106.0 82.8 124.2

192 15.7 12.8 19.2



#36

1,1-Dichloropropene

Concen: 4.012 ug/l

RT: 8.200 min Scan# 1062

Delta R.T. -0.153 min

Lab File: VN087634.D

Acq: 22 Aug 2025 12:37

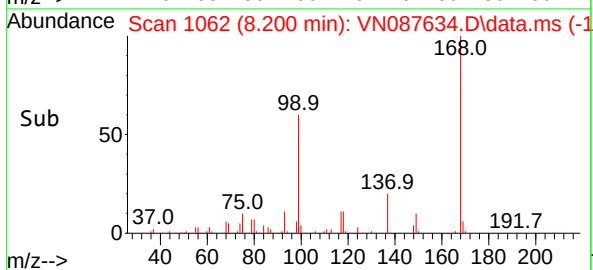
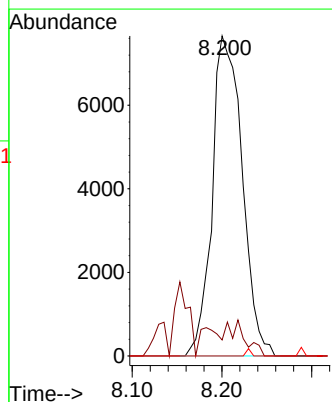
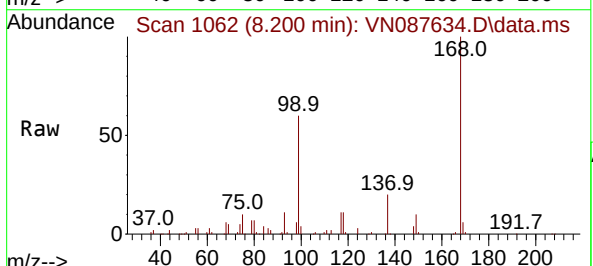
Tgt Ion: 75 Resp: 17760

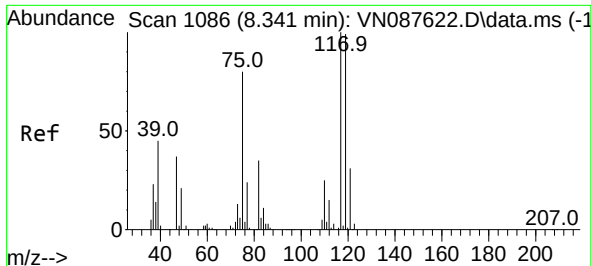
Ion Ratio Lower Upper

75 100

110 5.6 15.9 47.6#

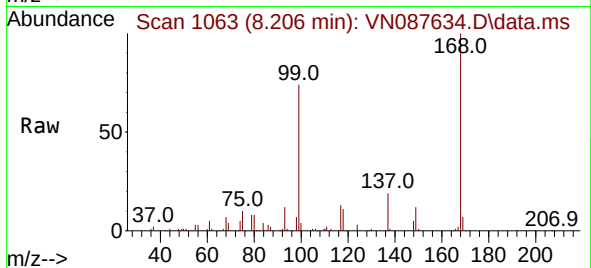
77 0.0 24.4 36.6#



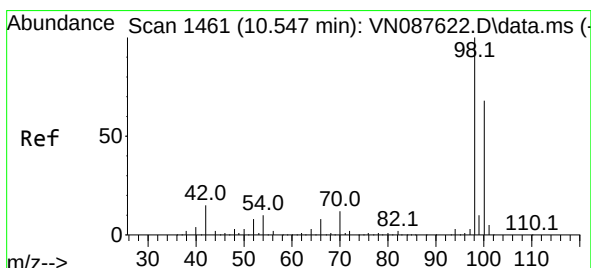
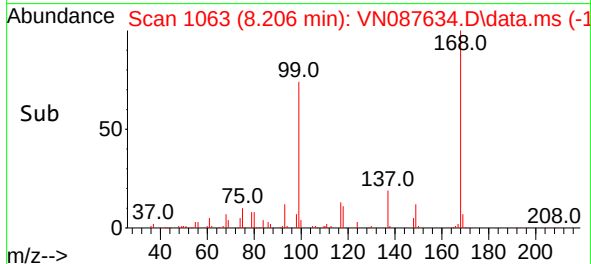
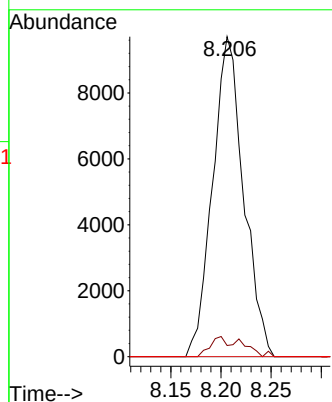


#38
Carbon Tetrachloride
Concen: 4.766 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.135 min
Lab File: VN087634.D
Acq: 22 Aug 2025 12:37

Instrument :
MSVOA_N
ClientSampleId :
FB

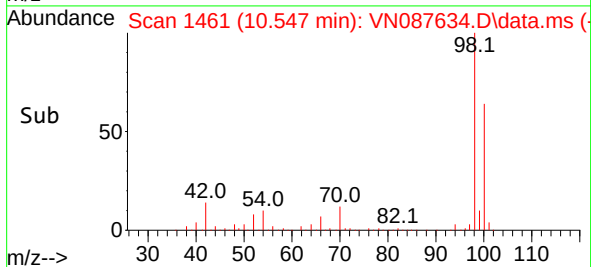
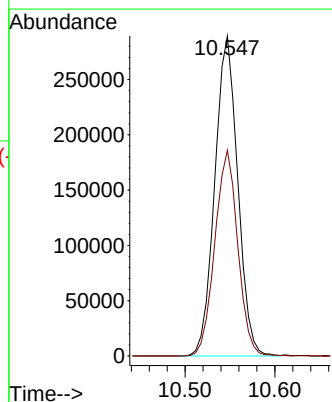
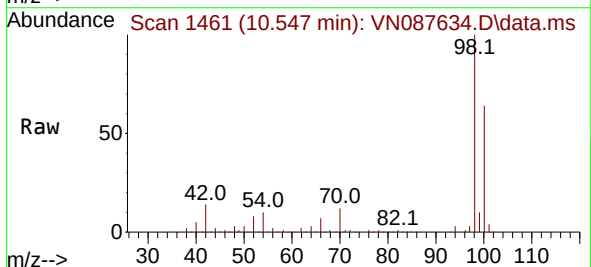


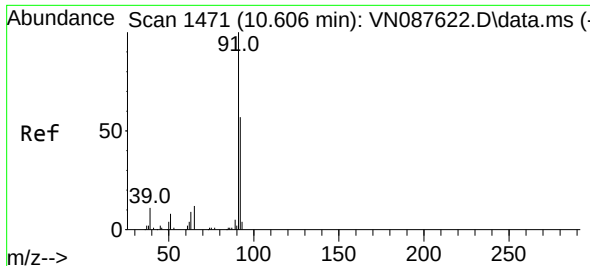
Tgt Ion:117 Resp: 20829
Ion Ratio Lower Upper
117 100
119 3.5 79.0 118.6#
121 0.0 25.0 37.6#



#50
Toluene-d8
Concen: 47.599 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087634.D
Acq: 22 Aug 2025 12:37

Tgt Ion: 98 Resp: 514063
Ion Ratio Lower Upper
98 100
100 64.1 52.8 79.2

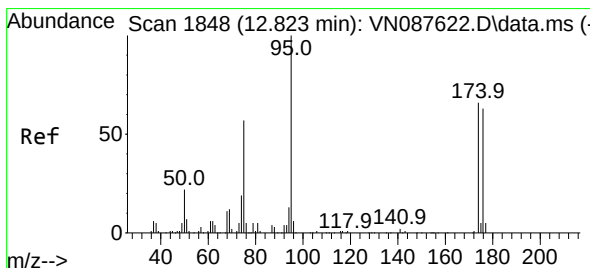
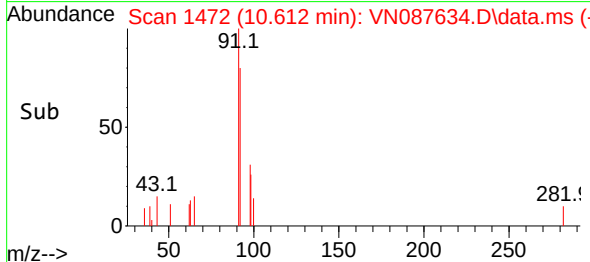
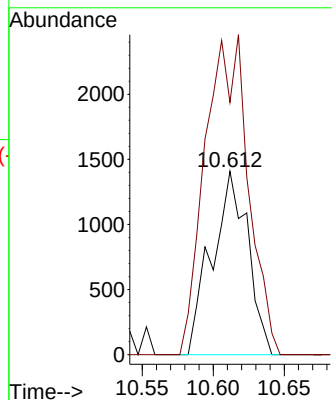
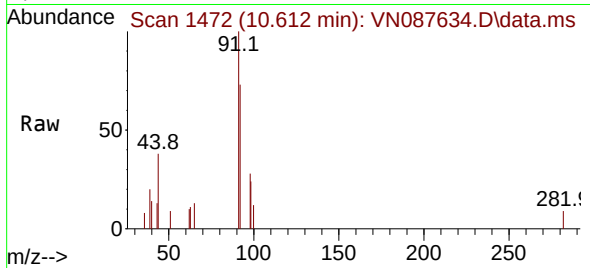




#52
Toluene
Concen: 0.295 ug/l
RT: 10.612 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VN087634.D
Acq: 22 Aug 2025 12:37

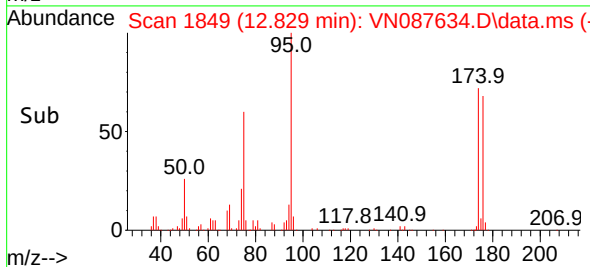
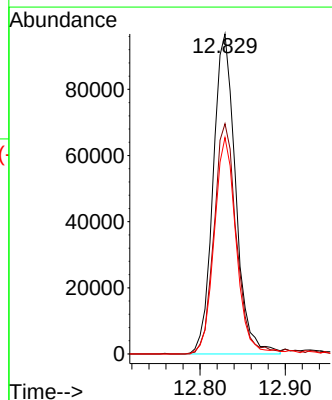
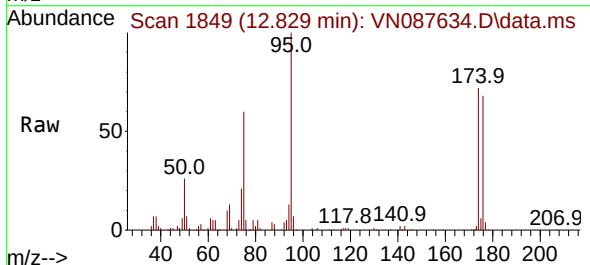
Instrument :
MSVOA_N
ClientSampleId :
FB

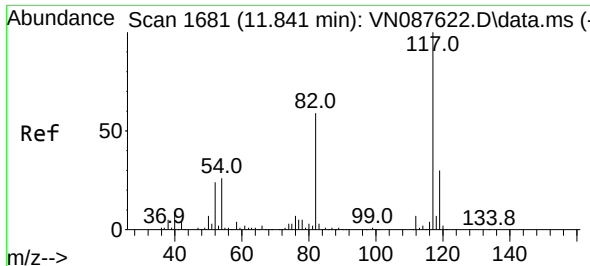
Tgt Ion: 92 Resp: 2480
Ion Ratio Lower Upper
92 100
91 208.5 140.4 210.6



#62
4-Bromofluorobenzene
Concen: 46.199 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN087634.D
Acq: 22 Aug 2025 12:37

Tgt Ion: 95 Resp: 177442
Ion Ratio Lower Upper
95 100
174 71.9 0.0 138.4
176 66.1 0.0 132.6

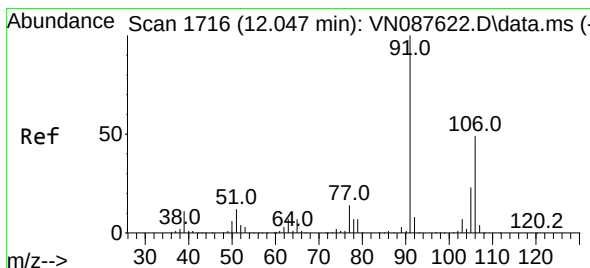
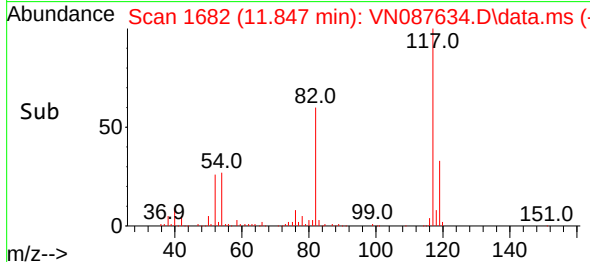
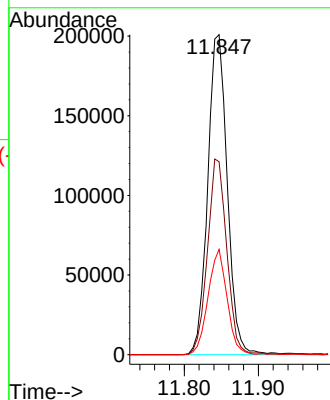
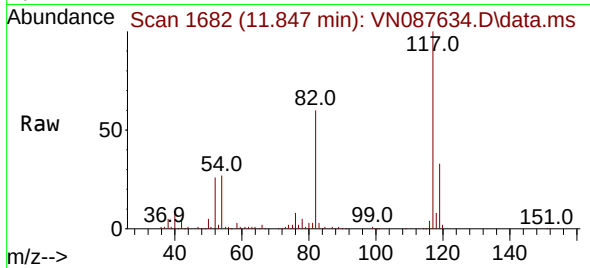




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 117
Delta R.T. 0.006 min
Lab File: VN087634.D
Acq: 22 Aug 2025 12:37

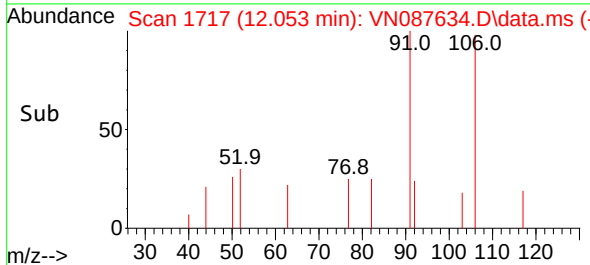
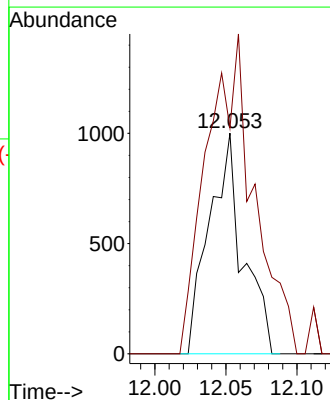
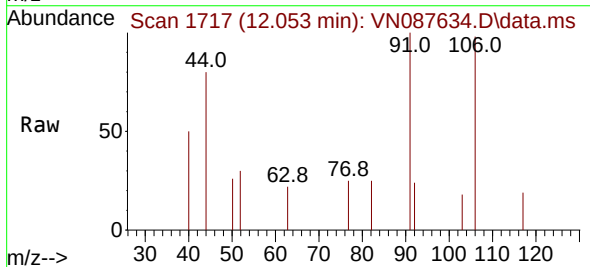
Instrument :
MSVOA_N
ClientSampleId :
FB

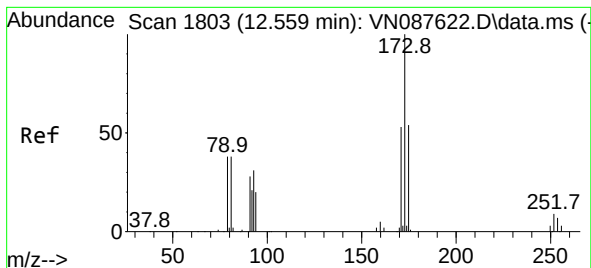
Tgt Ion:117 Resp: 368259
Ion Ratio Lower Upper
117 100
82 60.3 47.4 71.2
119 32.9 24.3 36.5



#68
m/p-Xylenes
Concen: 0.283 ug/l
RT: 12.053 min Scan# 1717
Delta R.T. 0.006 min
Lab File: VN087634.D
Acq: 22 Aug 2025 12:37

Tgt Ion:106 Resp: 1648
Ion Ratio Lower Upper
106 100
91 201.9 169.3 253.9





#71

Bromoform

Concen: 0.785 ug/l

RT: 12.829 min Scan# 11

Delta R.T. 0.271 min

Lab File: VN087634.D

Acq: 22 Aug 2025 12:37

Instrument :

MSVOA_N

ClientSampleId :

FB

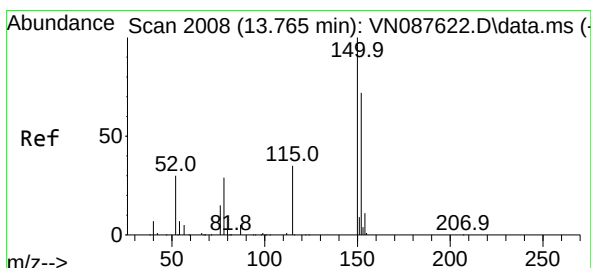
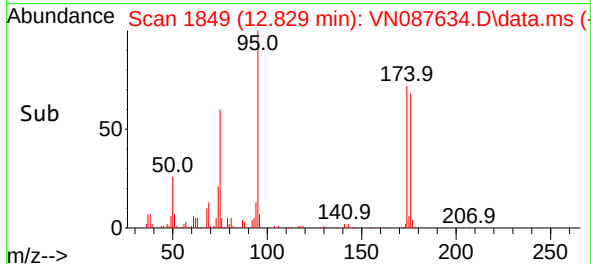
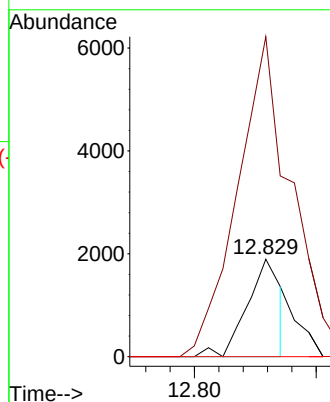
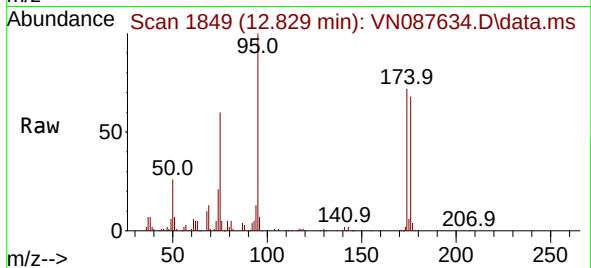
Tgt Ion:173 Resp: 1830

Ion Ratio Lower Upper

173 100

175 396.6 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: VN087634.D

Acq: 22 Aug 2025 12:37

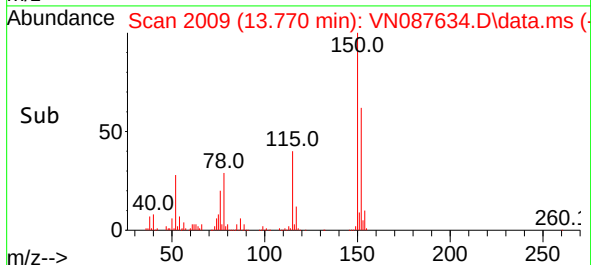
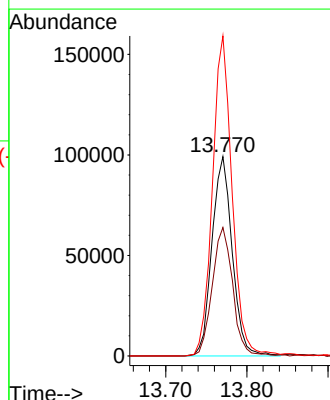
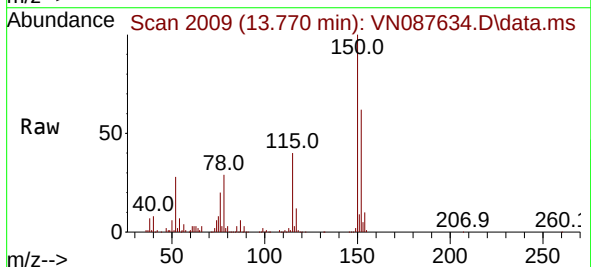
Tgt Ion:152 Resp: 172310

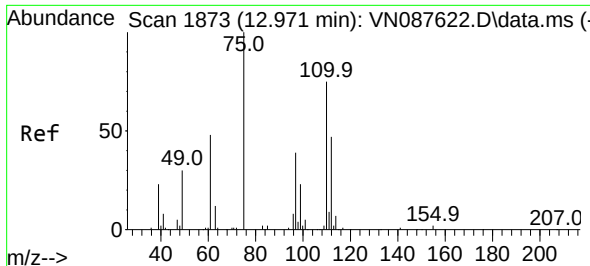
Ion Ratio Lower Upper

152 100

115 64.7 32.3 96.8

150 156.1 0.0 351.0

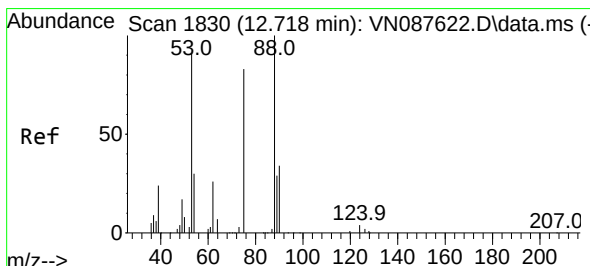
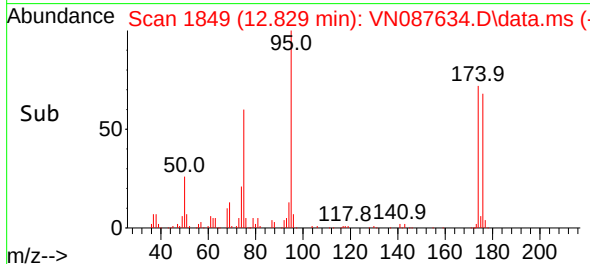
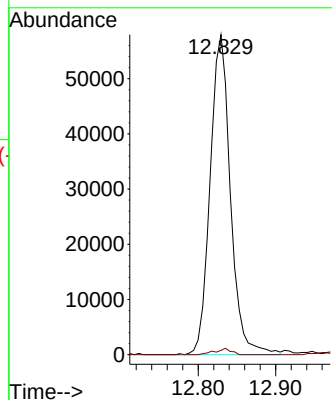
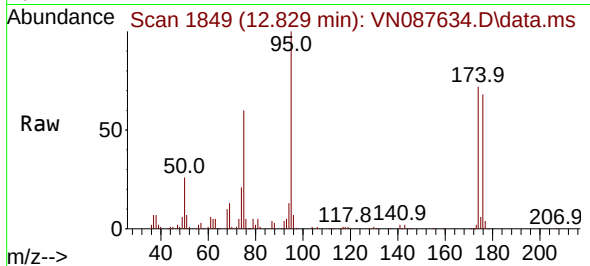




#76
1,2,3-Trichloropropane
Concen: 26.124 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN087634.D
Acq: 22 Aug 2025 12:37

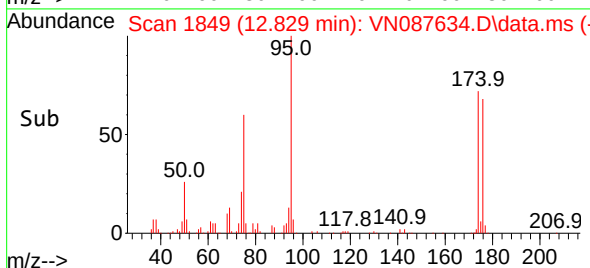
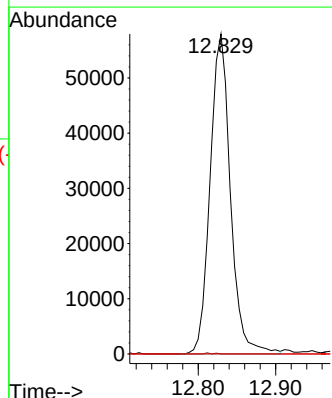
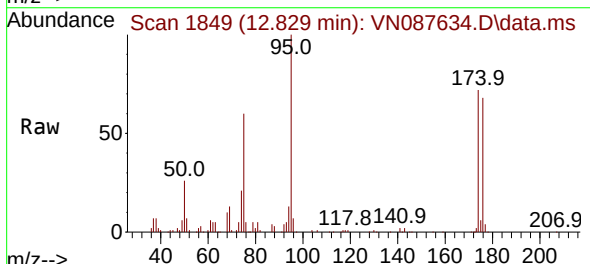
Instrument :
MSVOA_N
ClientSampleId :
FB

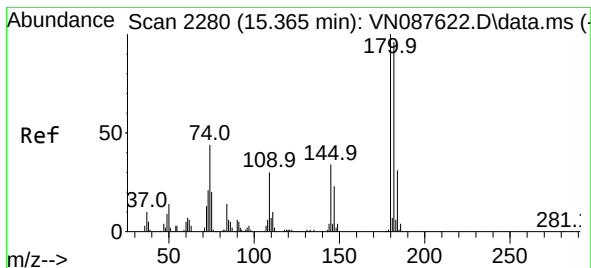
Tgt Ion: 75 Resp: 105562
Ion Ratio Lower Upper
75 100
77 1.5 89.1 267.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 69.161 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087634.D
Acq: 22 Aug 2025 12:37

Tgt Ion: 75 Resp: 105562
Ion Ratio Lower Upper
75 100
53 0.1 101.8 152.6#
89 0.0 35.6 53.4#





#93

1,2,4-Trichlorobenzene

Concen: 0.225 ug/l

RT: 15.359 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN087634.D

Acq: 22 Aug 2025 12:37

Instrument :

MSVOA_N

ClientSampleId :

FB

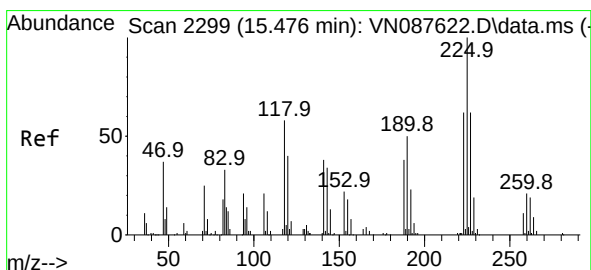
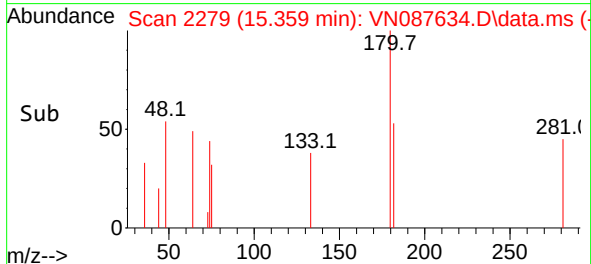
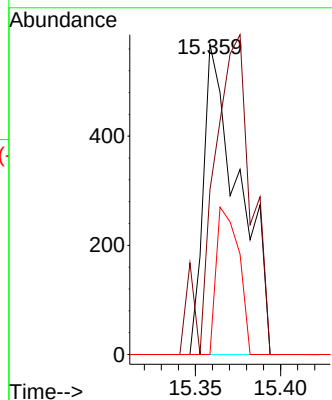
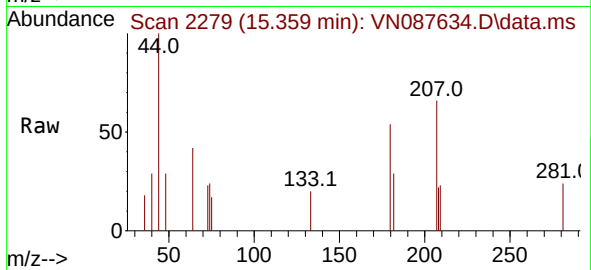
Tgt Ion:180 Resp: 827

Ion Ratio Lower Upper

180 100

182 109.3 47.6 142.9

145 29.7 16.5 49.5



#94

Hexachlorobutadiene

Concen: 0.265 ug/l

RT: 15.470 min Scan# 2298

Delta R.T. -0.006 min

Lab File: VN087634.D

Acq: 22 Aug 2025 12:37

Tgt Ion:225 Resp: 348

Ion Ratio Lower Upper

225 100

223 50.6 32.0 96.2

227 17.8 32.1 96.5#

