

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082225\
 Data File : VN087633.D
 Acq On : 22 Aug 2025 12:16
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Quant Time: Aug 25 01:18:31 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	182898	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	412897	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	375082	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	168379	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	189419	50.547	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	101.100%
35) Dibromofluoromethane	8.153	113	141043	47.312	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	94.620%
50) Toluene-d8	10.547	98	526689	47.204	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	94.400%
62) 4-Bromofluorobenzene	12.829	95	182263	45.933	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	91.860%

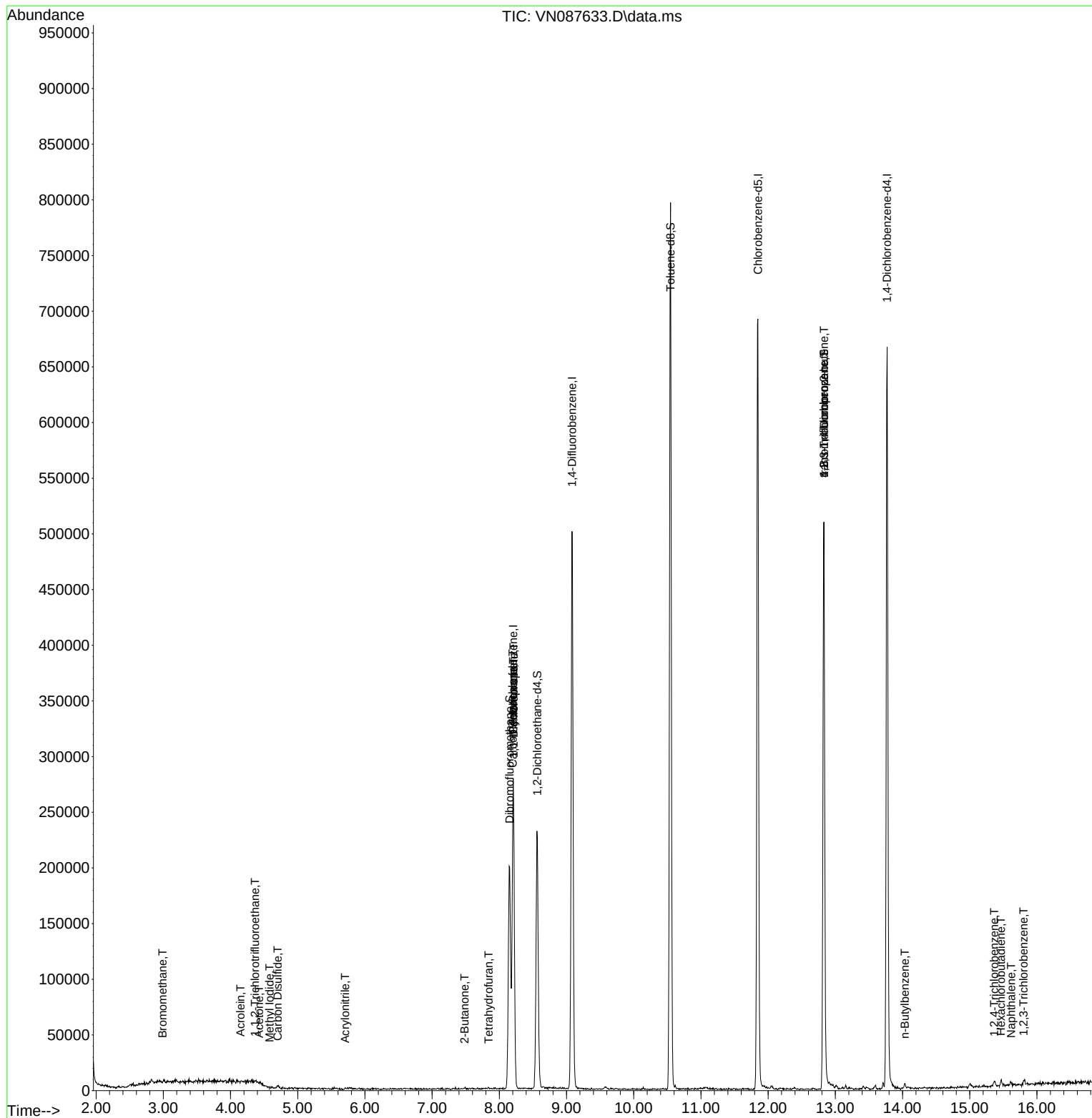
Target Compounds			Qvalue			
5) Bromomethane	2.989	94	1028	0.644	ug/l #	58
9) 1,1,2-Trichlorotrifluo...	4.365	101	534	0.208	ug/l #	28
10) Methyl Iodide	4.583	142	220	6.910	ug/l #	79
13) Acrolein	4.148	56	645	0.806	ug/l	96
15) Acrylonitrile	5.706	53	658	0.359	ug/l #	53
16) Acetone	4.424	43	2031	0.996	ug/l #	47
17) Carbon Disulfide	4.700	76	3023	0.416	ug/l #	91
20) Methylene Chloride	5.236	84	119	Below Cal	#	5
25) 2-Butanone	7.483	43	631	0.235	ug/l #	50
29) Tetrahydrofuran	7.841	42	636	0.368	ug/l #	34
31) Cyclohexane	8.206	56	6881	1.460	ug/l #	22
36) 1,1-Dichloropropene	8.212	75	18180	3.975	ug/l #	49
38) Carbon Tetrachloride	8.200	117	22662	5.019	ug/l #	15
76) 1,2,3-Trichloropropane	12.829	75	103533	26.220	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	103533	69.415	ug/l #	1
89) n-Butylbenzene	14.035	91	3596	0.307	ug/l	99
93) 1,2,4-Trichlorobenzene	15.365	180	1587	0.441	ug/l	79
94) Hexachlorobutadiene	15.464	225	1056	0.823	ug/l #	71
95) Naphthalene	15.617	128	3904	0.306	ug/l #	84
96) 1,2,3-Trichlorobenzene	15.800	180	1288	0.366	ug/l #	80

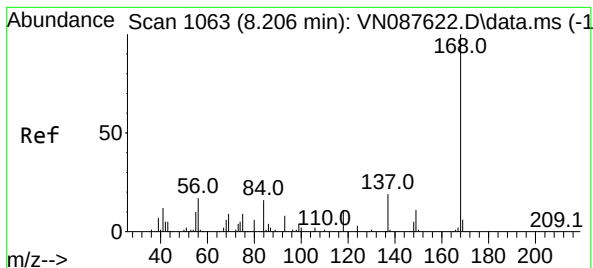
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Aug 22 02:55:42 2025
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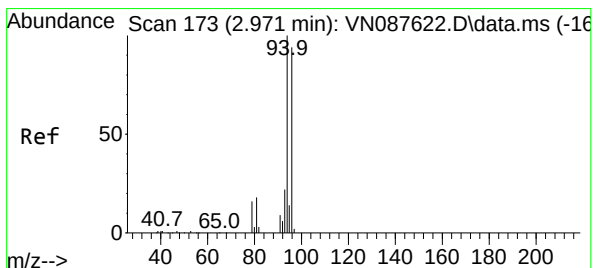
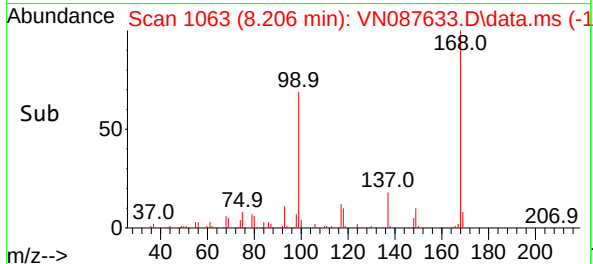
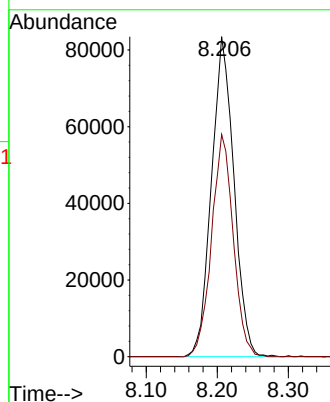
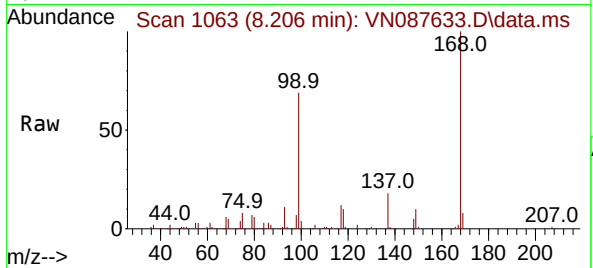




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN087633.D
Acq: 22 Aug 2025 12:16

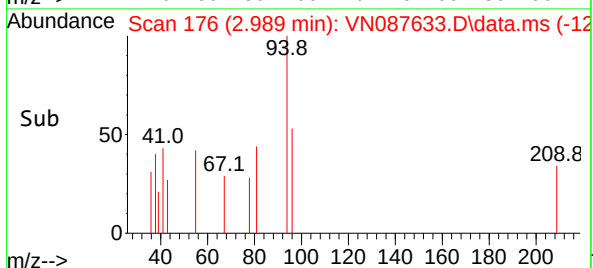
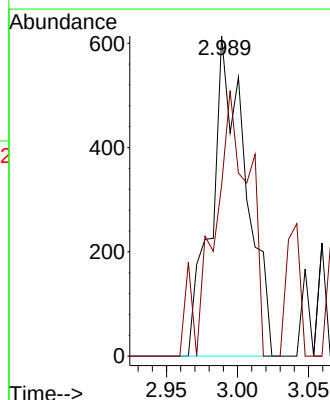
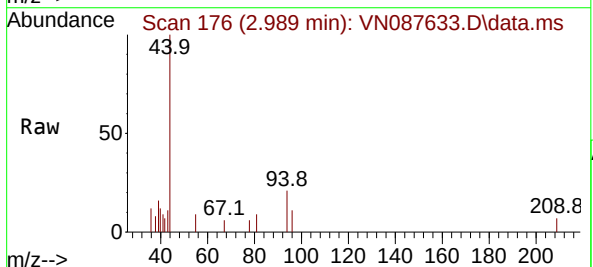
Instrument :
MSVOA_N
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IBLK

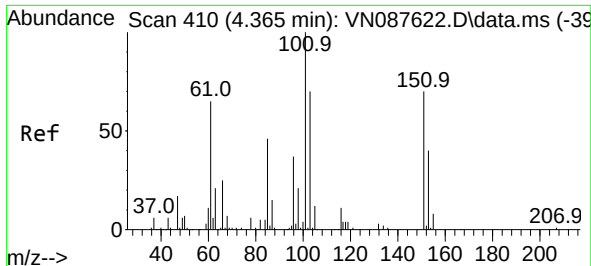
Tgt Ion:168 Resp: 182898
Ion Ratio Lower Upper
168 100
99 69.5 57.2 85.8



#5
Bromomethane
Concen: 0.644 ug/l
RT: 2.989 min Scan# 176
Delta R.T. 0.018 min
Lab File: VN087633.D
Acq: 22 Aug 2025 12:16

Tgt Ion: 94 Resp: 1028
Ion Ratio Lower Upper
94 100
96 53.4 75.4 113.2#

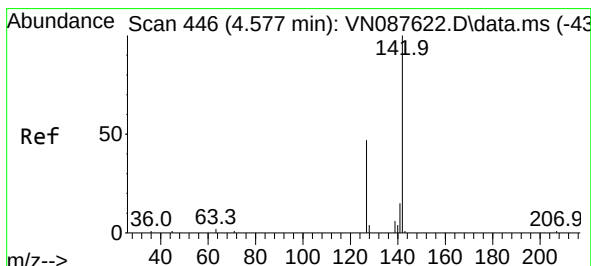
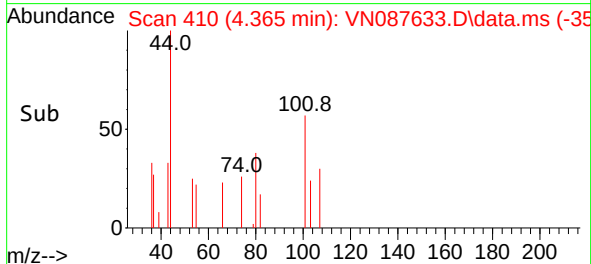
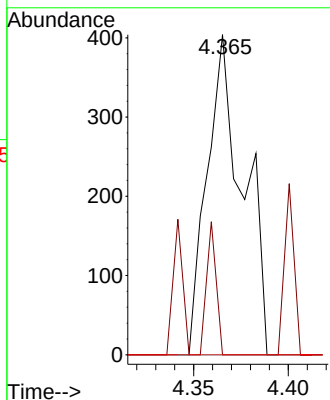
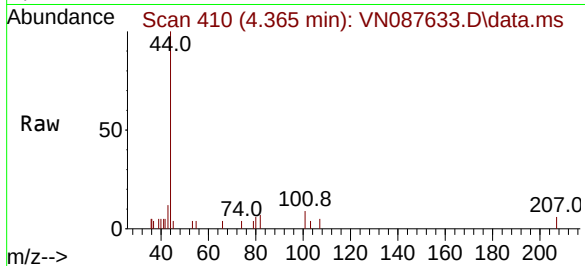




#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.208 ug/l
RT: 4.365 min Scan# 410
Delta R.T. 0.000 min
Lab File: VN087633.D
Acq: 22 Aug 2025 12:16

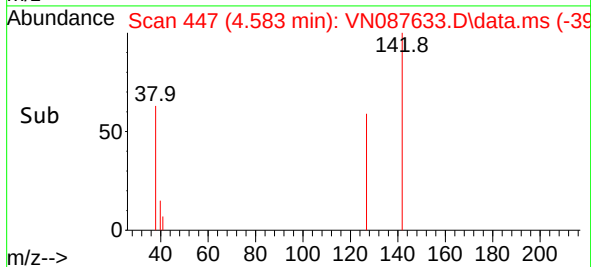
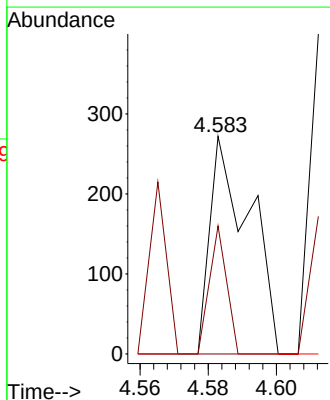
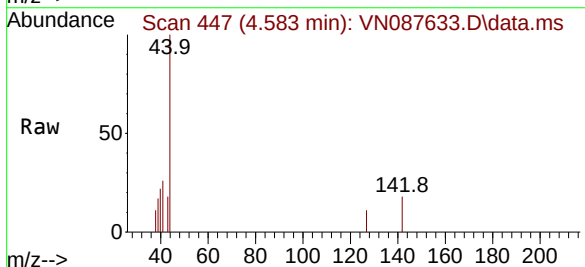
Instrument :
MSVOA_N
ClientSampleId :
IBLK

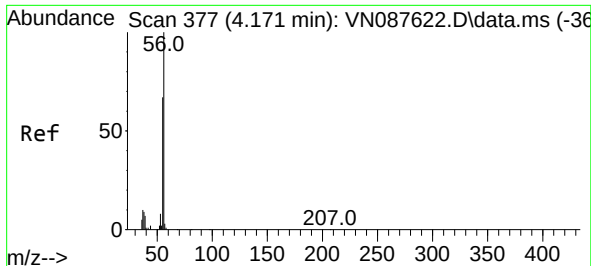
Tgt Ion:101 Resp: 534
Ion Ratio Lower Upper
101 100
85 11.0 36.6 55.0#
151 0.0 54.7 82.1#



#10
Methyl Iodide
Concen: 6.910 ug/l
RT: 4.583 min Scan# 447
Delta R.T. 0.006 min
Lab File: VN087633.D
Acq: 22 Aug 2025 12:16

Tgt Ion:142 Resp: 220
Ion Ratio Lower Upper
142 100
127 58.8 38.0 57.0#
141 0.0 12.0 18.0#

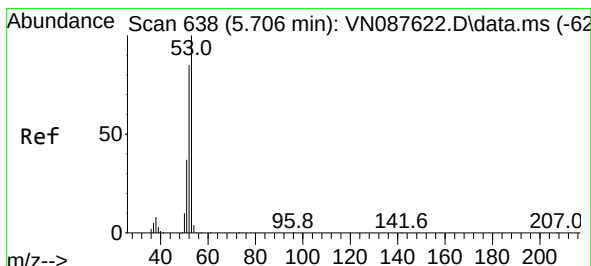
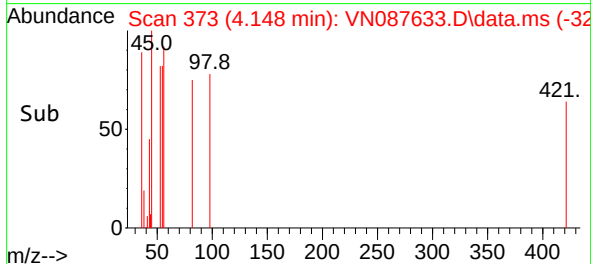
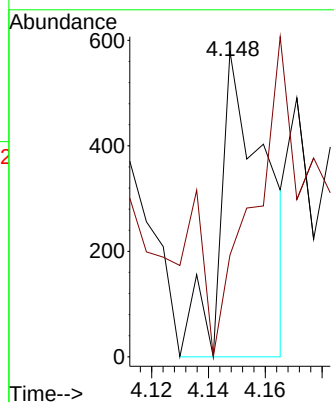
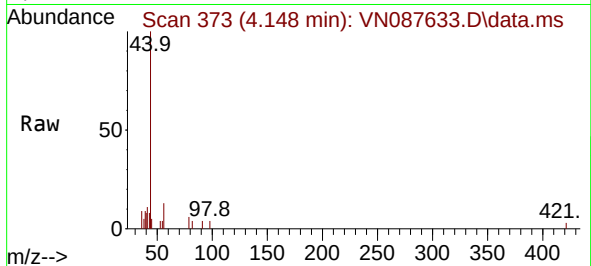




#13
Acrolein
Concen: 0.806 ug/l
RT: 4.148 min Scan# 31
Delta R.T. -0.024 min
Lab File: VN087633.D
Acq: 22 Aug 2025 12:16

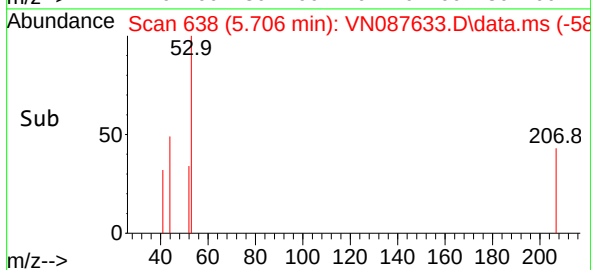
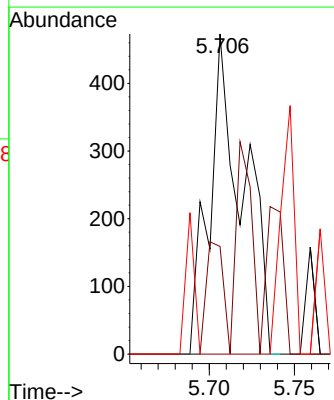
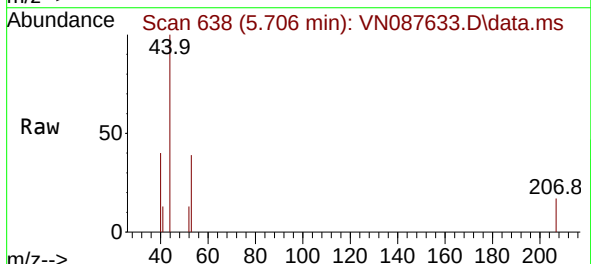
Instrument :
MSVOA_N
ClientSampleId :
IBLK

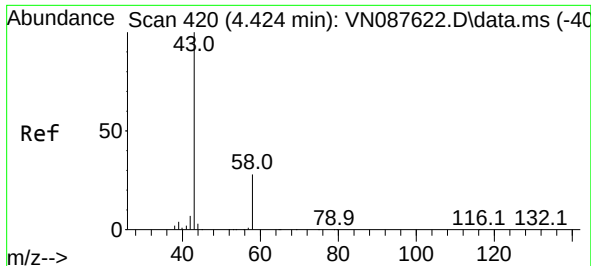
Tgt Ion: 56 Resp: 645
Ion Ratio Lower Upper
56 100
55 75.0 57.3 85.9



#15
Acrylonitrile
Concen: 0.359 ug/l
RT: 5.706 min Scan# 638
Delta R.T. 0.000 min
Lab File: VN087633.D
Acq: 22 Aug 2025 12:16

Tgt Ion: 53 Resp: 658
Ion Ratio Lower Upper
53 100
52 47.6 67.6 101.4#
51 0.0 30.1 45.1#

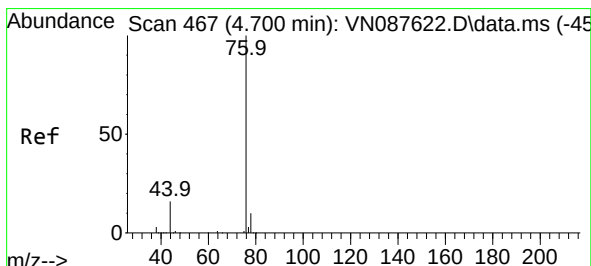
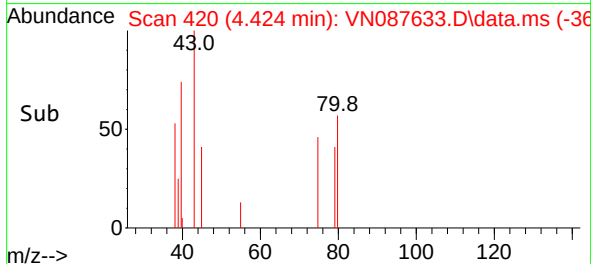
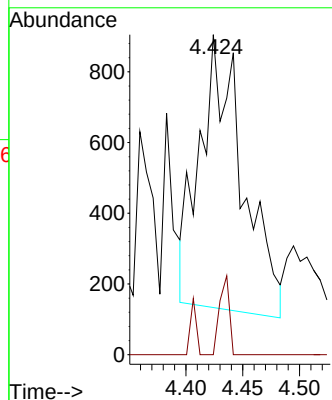
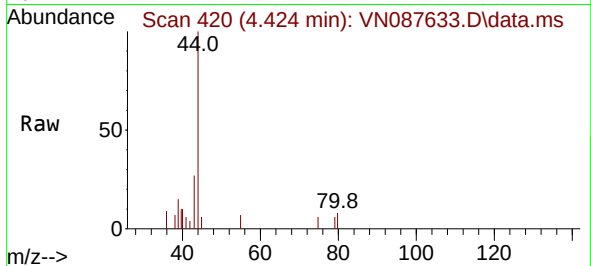




#16
Acetone
Concen: 0.996 ug/l
RT: 4.424 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN087633.D
Acq: 22 Aug 2025 12:16

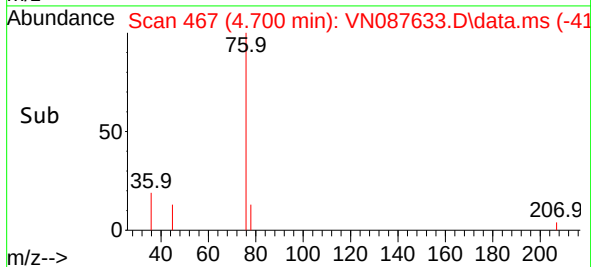
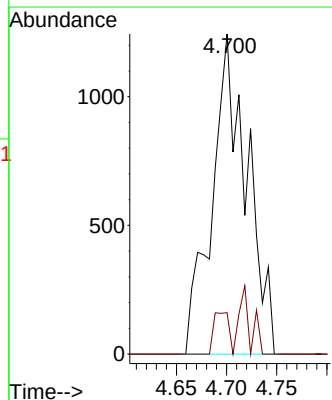
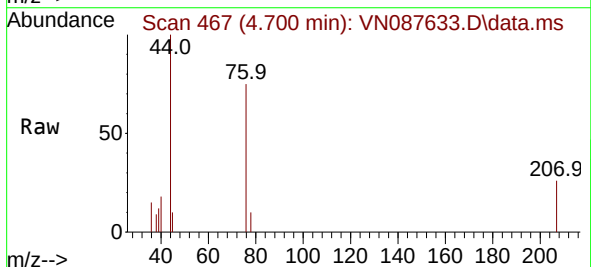
Instrument :
MSVOA_N
ClientSampleId :
IBLK

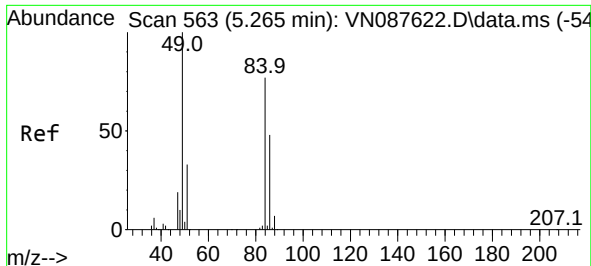
Tgt Ion: 43 Resp: 2031
Ion Ratio Lower Upper
43 100
58 0.0 22.6 33.8#



#17
Carbon Disulfide
Concen: 0.416 ug/l
RT: 4.700 min Scan# 467
Delta R.T. 0.000 min
Lab File: VN087633.D
Acq: 22 Aug 2025 12:16

Tgt Ion: 76 Resp: 3023
Ion Ratio Lower Upper
76 100
78 12.9 7.6 11.4#

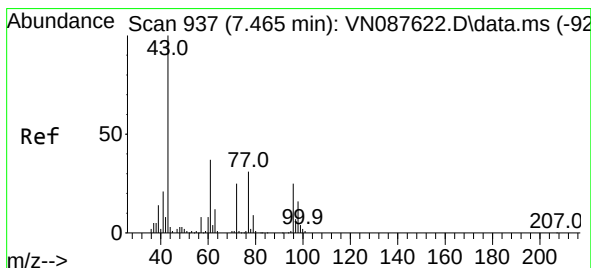
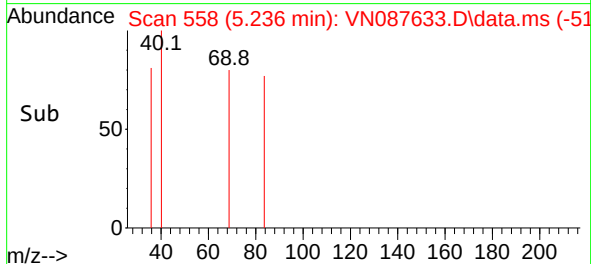
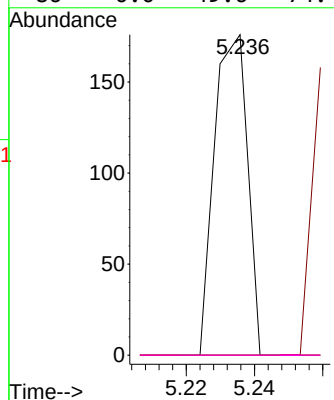
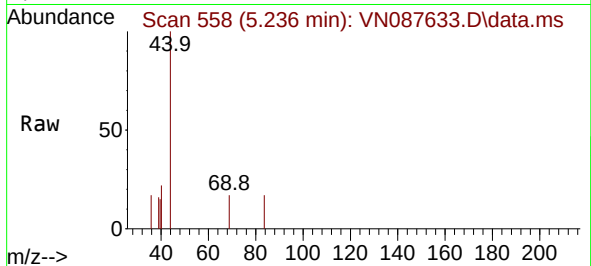




#20
Methylene Chloride
Concen: Below Cal
RT: 5.236 min Scan# 51
Delta R.T. -0.029 min
Lab File: VN087633.D
Acq: 22 Aug 2025 12:16

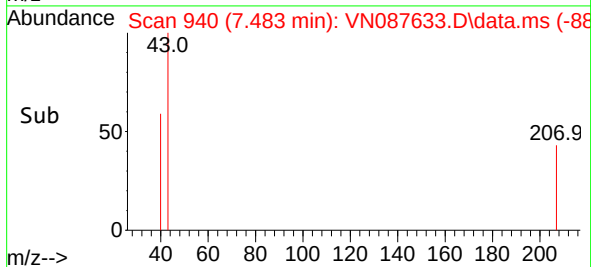
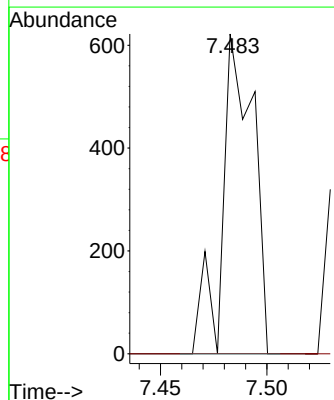
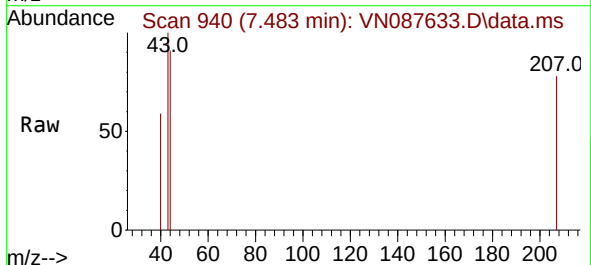
Instrument :
MSVOA_N
ClientSampleId :
IBLK

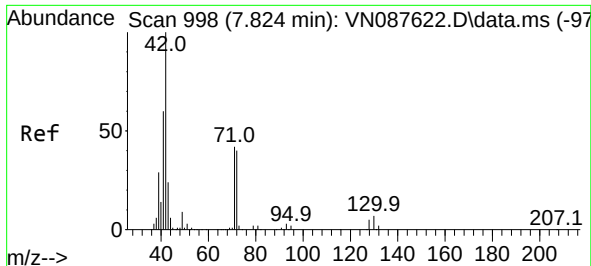
Tgt Ion:	84	Resp:	119
Ion	Ratio	Lower	Upper
84	100		
49	0.0	103.4	155.2#
51	0.0	33.8	50.8#
86	0.0	49.6	74.4#



#25
2-Butanone
Concen: 0.235 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.018 min
Lab File: VN087633.D
Acq: 22 Aug 2025 12:16

Tgt Ion:	43	Resp:	631
Ion	Ratio	Lower	Upper
43	100		
72	0.0	19.9	29.9#





#29

Tetrahydrofuran

Concen: 0.368 ug/l

RT: 7.841 min Scan# 1001

Delta R.T. 0.018 min

Lab File: VN087633.D

Acq: 22 Aug 2025 12:16

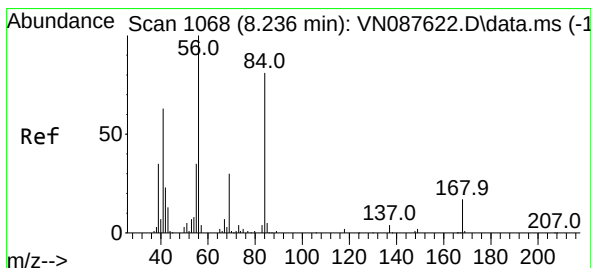
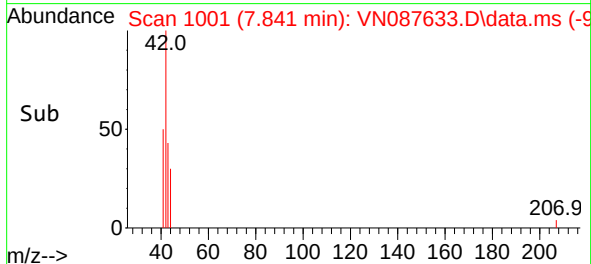
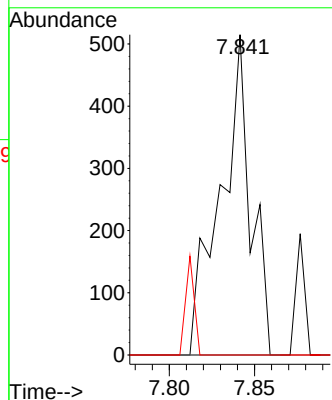
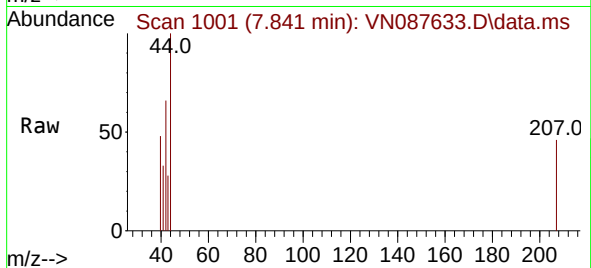
Instrument :

MSVOA_N

ClientSampleId :

IBLK

Tgt Ion:	42	Resp:	636
Ion	Ratio	Lower	Upper
42	100		
72	0.0	33.7	50.5#
71	0.0	31.9	47.9#



#31

Cyclohexane

Concen: 1.460 ug/l

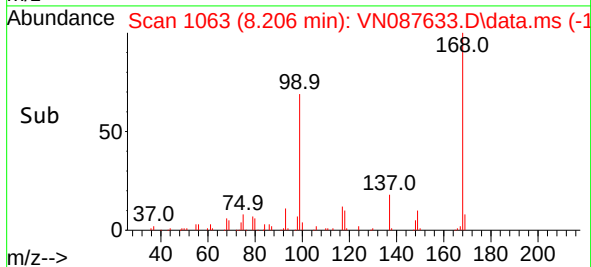
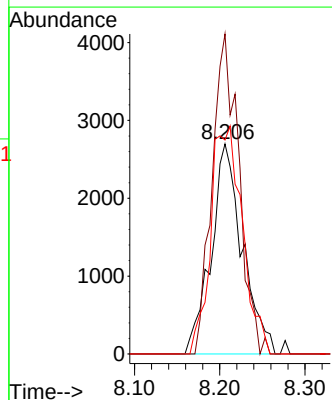
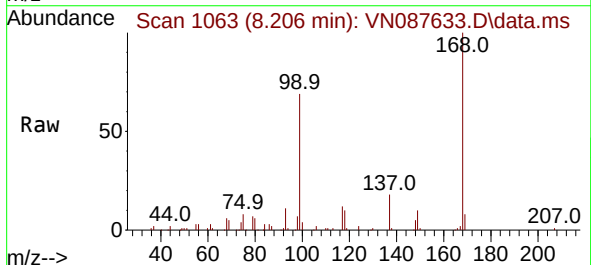
RT: 8.206 min Scan# 1063

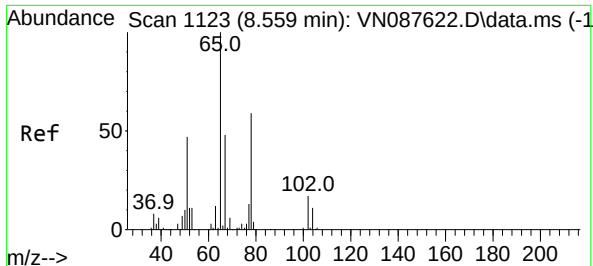
Delta R.T. -0.029 min

Lab File: VN087633.D

Acq: 22 Aug 2025 12:16

Tgt Ion:	56	Resp:	6881
Ion	Ratio	Lower	Upper
56	100		
69	152.3	23.7	35.5#
84	101.9	64.7	97.1#





#33

1,2-Dichloroethane-d4

Concen: 50.547 ug/l

RT: 8.565 min Scan# 1123

Delta R.T. 0.006 min

Lab File: VN087633.D

Acq: 22 Aug 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

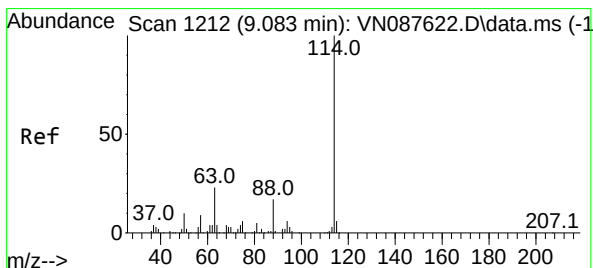
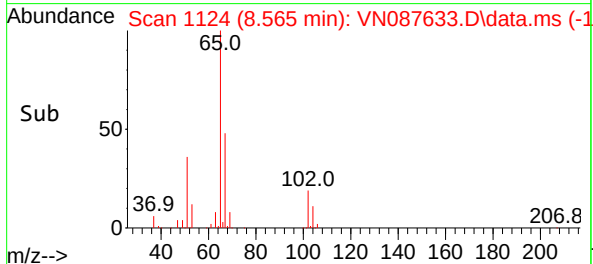
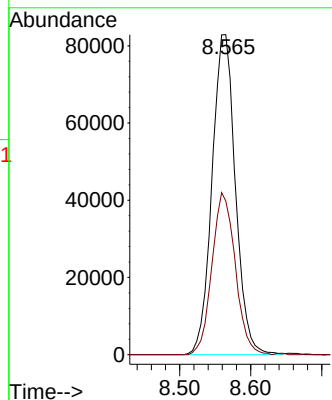
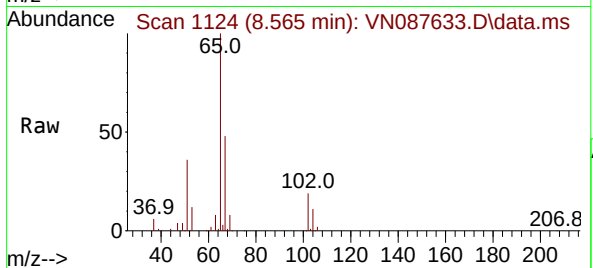
IBLK

Tgt Ion: 65 Resp: 189419

Ion Ratio Lower Upper

65 100

67 50.5 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: VN087633.D

Acq: 22 Aug 2025 12:16

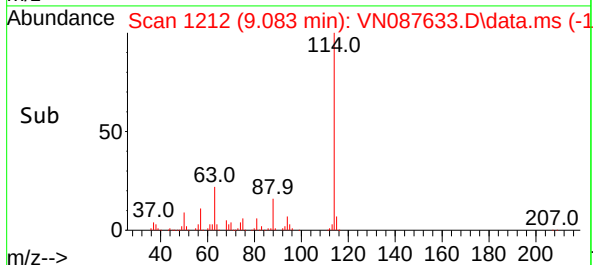
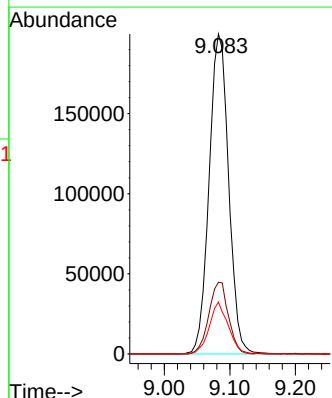
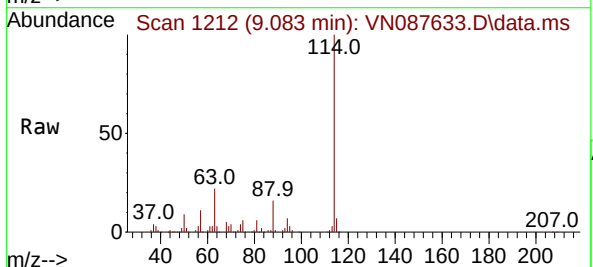
Tgt Ion: 114 Resp: 412897

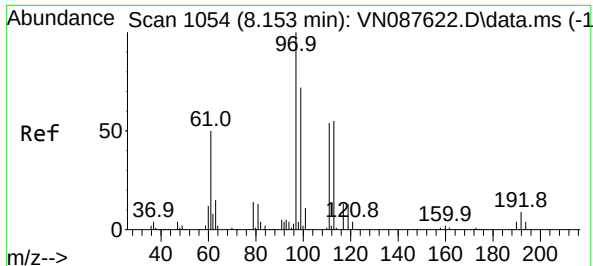
Ion Ratio Lower Upper

114 100

63 22.4 0.0 45.2

88 16.2 0.0 33.4





#35

Dibromofluoromethane

Concen: 47.312 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.000 min

Lab File: VN087633.D

Acq: 22 Aug 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

IBLK

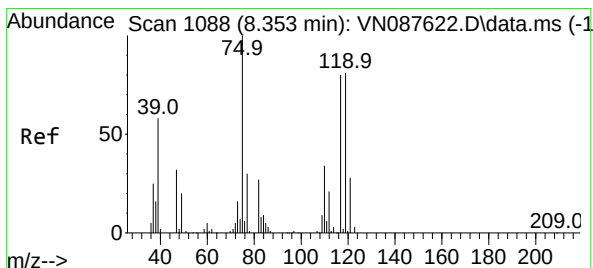
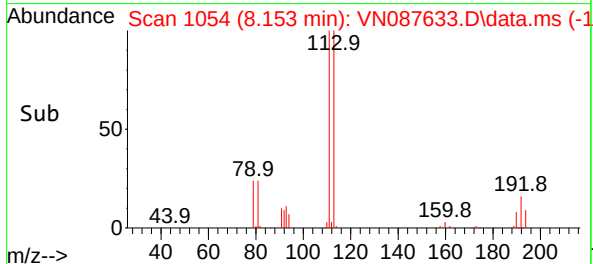
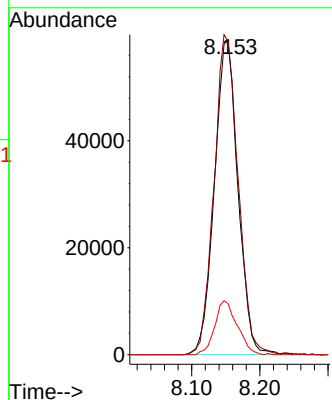
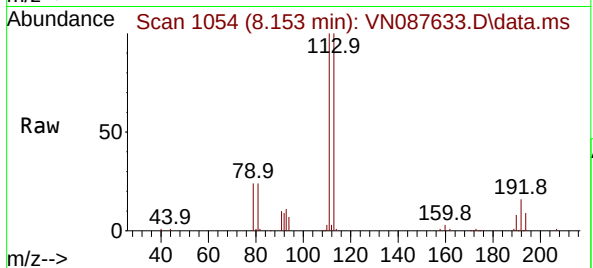
Tgt Ion:113 Resp: 141043

Ion Ratio Lower Upper

113 100

111 104.2 82.8 124.2

192 16.4 12.8 19.2



#36

1,1-Dichloropropene

Concen: 3.975 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.141 min

Lab File: VN087633.D

Acq: 22 Aug 2025 12:16

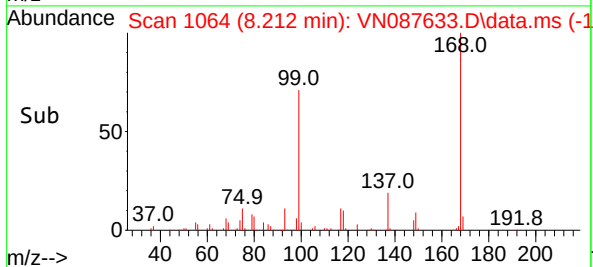
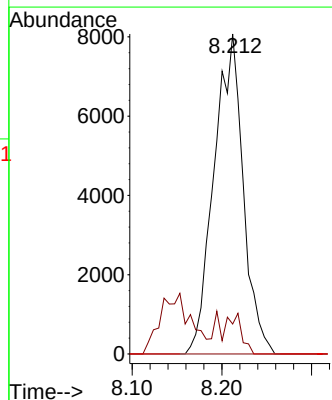
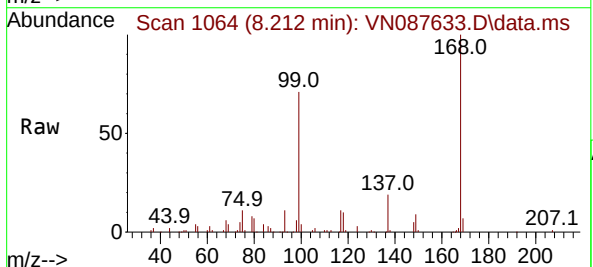
Tgt Ion: 75 Resp: 18180

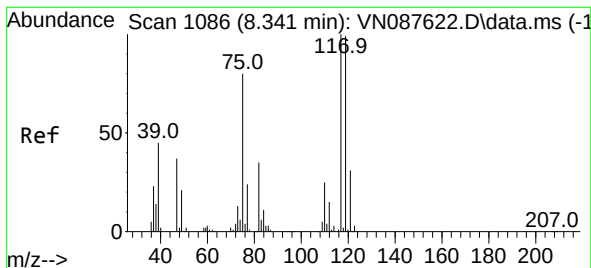
Ion Ratio Lower Upper

75 100

110 6.3 15.9 47.6#

77 0.0 24.4 36.6#





#38

Carbon Tetrachloride

Concen: 5.019 ug/l

RT: 8.200 min Scan# 1062

Delta R.T. -0.141 min

Lab File: VN087633.D

Acq: 22 Aug 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

IBLK

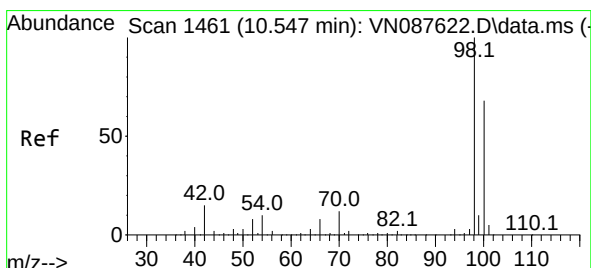
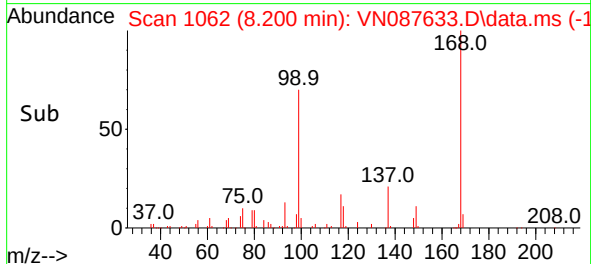
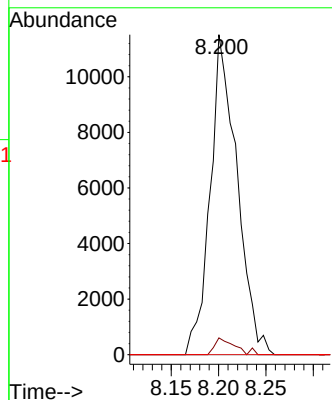
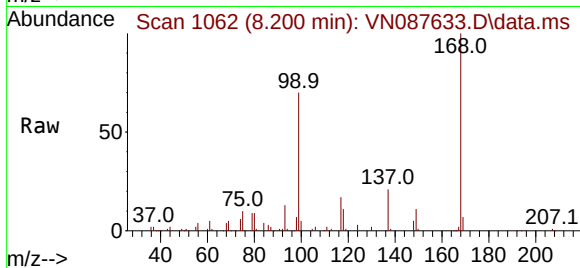
Tgt Ion:117 Resp: 22662

Ion Ratio Lower Upper

117 100

119 5.3 79.0 118.6#

121 0.0 25.0 37.6#



#50

Toluene-d8

Concen: 47.204 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. 0.000 min

Lab File: VN087633.D

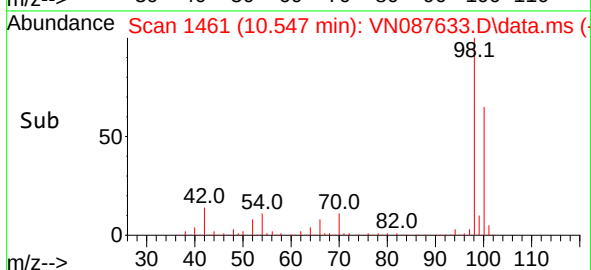
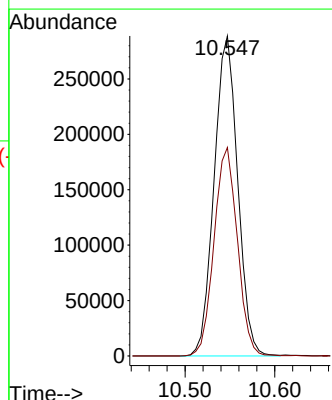
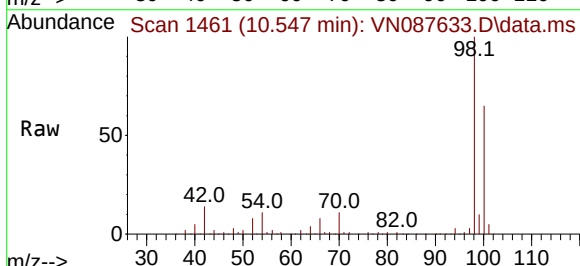
Acq: 22 Aug 2025 12:16

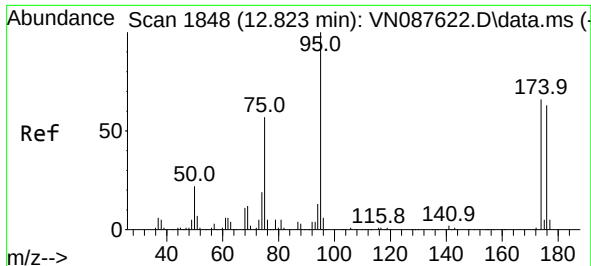
Tgt Ion: 98 Resp: 526689

Ion Ratio Lower Upper

98 100

100 64.6 52.8 79.2

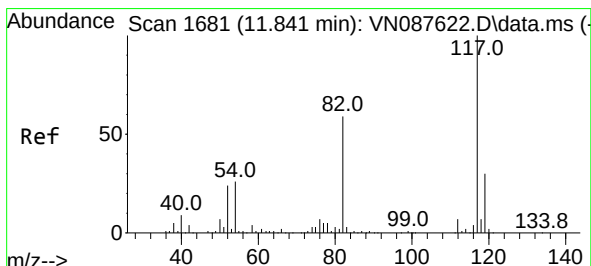
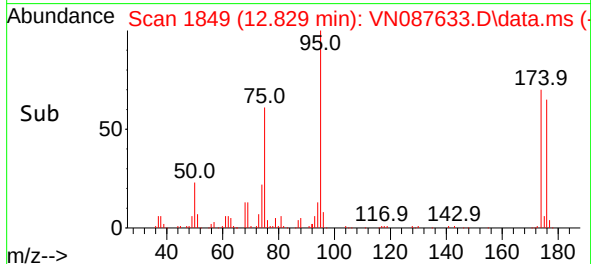
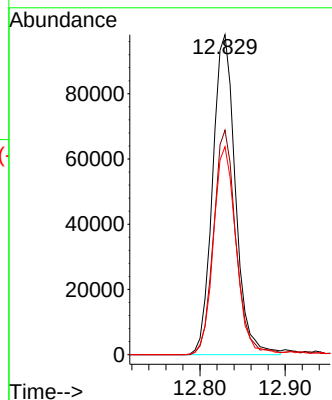
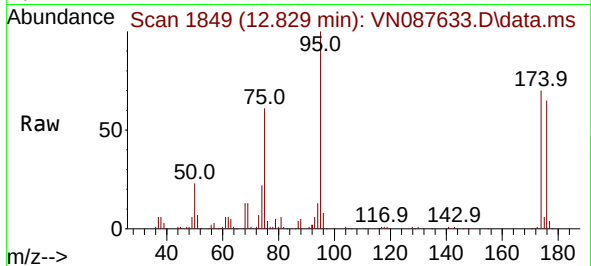




#62
4-Bromofluorobenzene
Concen: 45.933 ug/l
RT: 12.829 min Scan# 1848
Delta R.T. 0.006 min
Lab File: VN087633.D
Acq: 22 Aug 2025 12:16

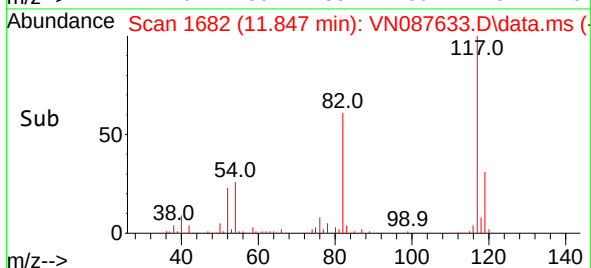
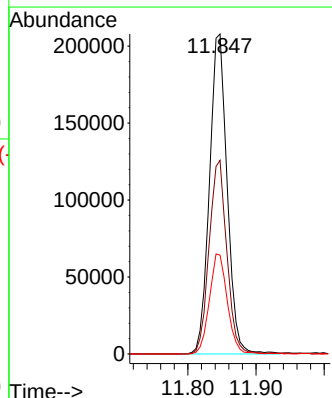
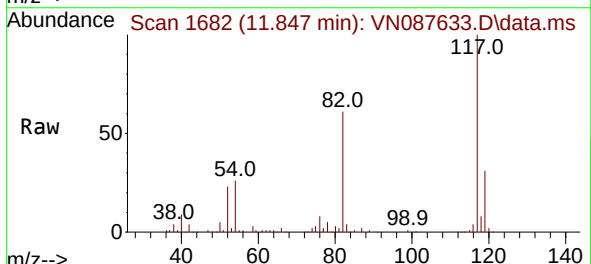
Instrument :
MSVOA_N
ClientSampleId :
IBLK

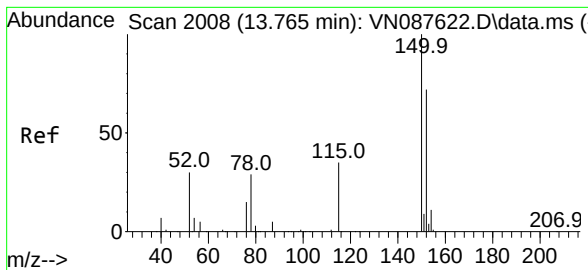
Tgt Ion: 95 Resp: 182263
Ion Ratio Lower Upper
95 100
174 68.7 0.0 138.4
176 65.0 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VN087633.D
Acq: 22 Aug 2025 12:16

Tgt Ion: 117 Resp: 375082
Ion Ratio Lower Upper
117 100
82 60.5 47.4 71.2
119 30.9 24.3 36.5

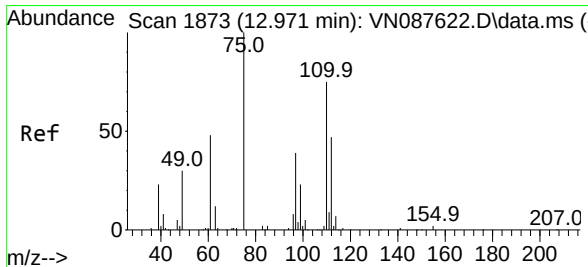
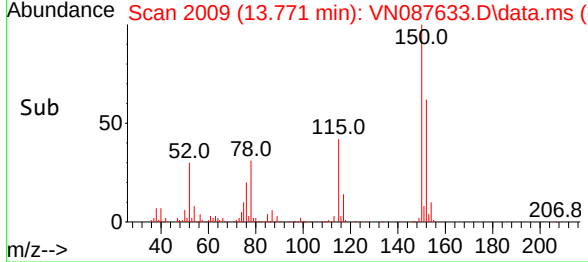
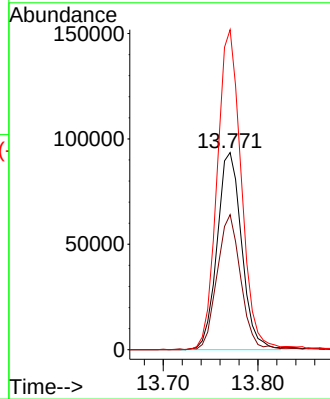
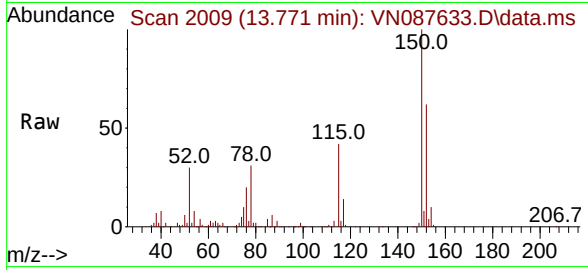




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.771 min Scan# 2008
 Delta R.T. 0.006 min
 Lab File: VN087633.D
 Acq: 22 Aug 2025 12:16

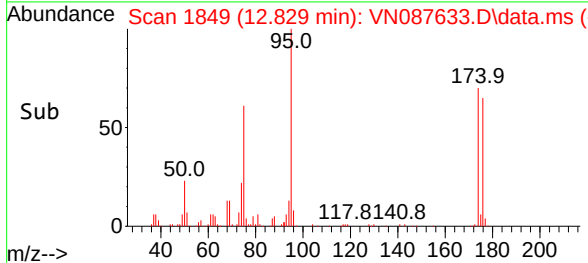
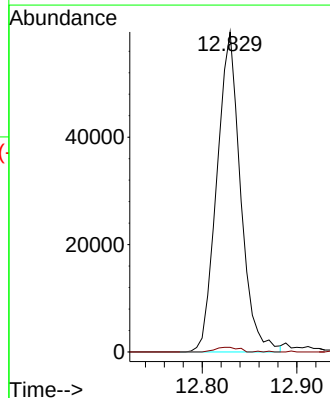
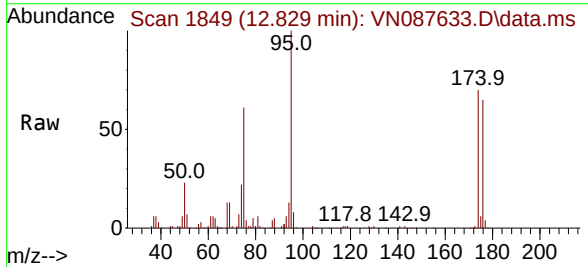
Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

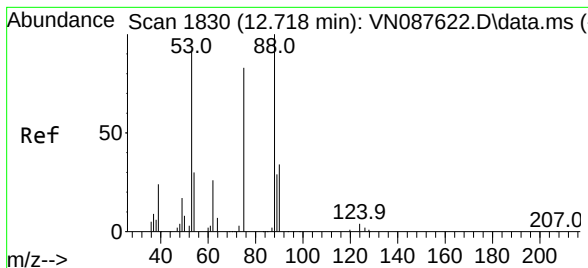
Tgt Ion:152 Resp: 168379
 Ion Ratio Lower Upper
 152 100
 115 66.5 32.3 96.8
 150 160.7 0.0 351.0



#76
 1,2,3-Trichloropropane
 Concen: 26.220 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. -0.141 min
 Lab File: VN087633.D
 Acq: 22 Aug 2025 12:16

Tgt Ion: 75 Resp: 103533
 Ion Ratio Lower Upper
 75 100
 77 1.5 89.1 267.4#

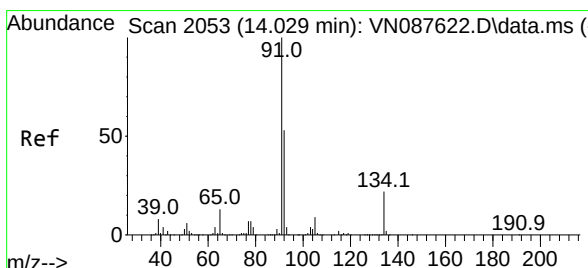
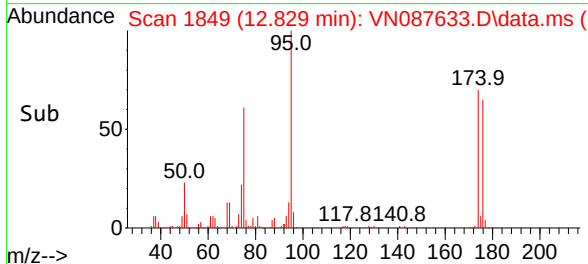
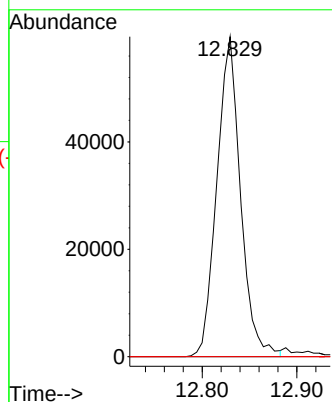
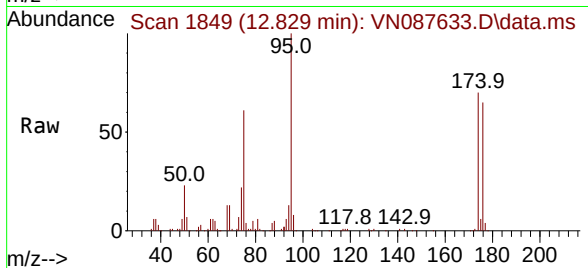




#81
trans-1,4-Dichloro-2-butene
Concen: 69.415 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087633.D
Acq: 22 Aug 2025 12:16

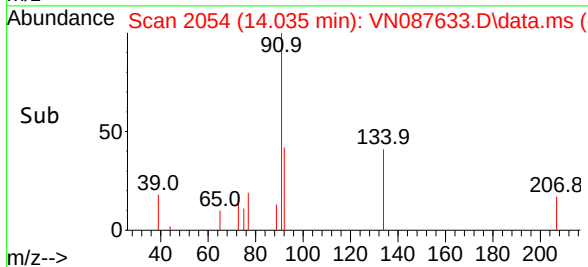
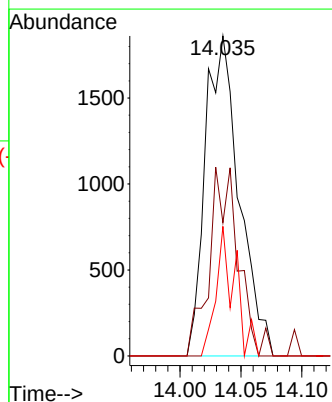
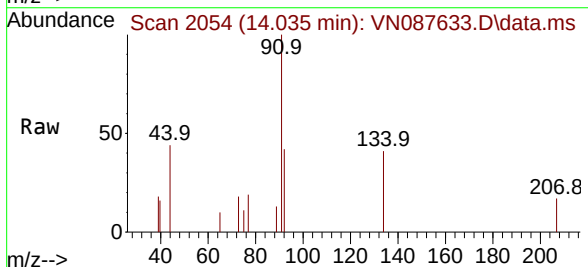
Instrument :
MSVOA_N
ClientSampleId :
IBLK

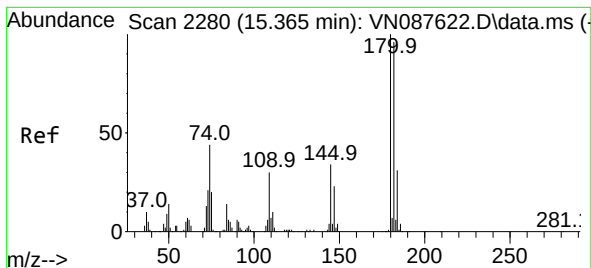
Tgt Ion: 75 Resp: 103533
Ion Ratio Lower Upper
75 100
53 0.0 101.8 152.6#
89 0.0 35.6 53.4#



#89
n-Butylbenzene
Concen: 0.307 ug/l
RT: 14.035 min Scan# 2054
Delta R.T. 0.006 min
Lab File: VN087633.D
Acq: 22 Aug 2025 12:16

Tgt Ion: 91 Resp: 3596
Ion Ratio Lower Upper
91 100
92 50.7 25.9 77.8
134 22.9 11.7 35.0





#93

1,2,4-Trichlorobenzene

Concen: 0.441 ug/l

RT: 15.365 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN087633.D

Acq: 22 Aug 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

IBLK

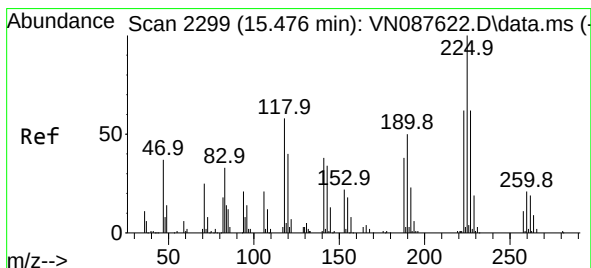
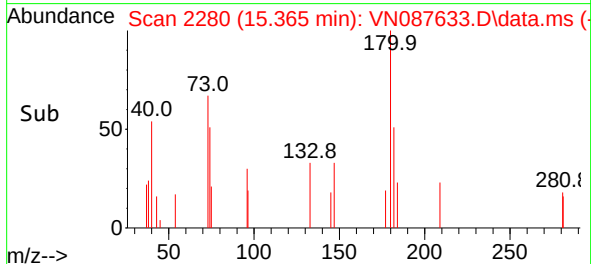
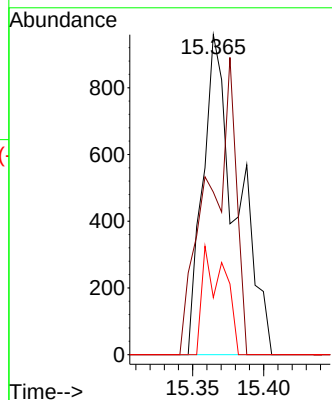
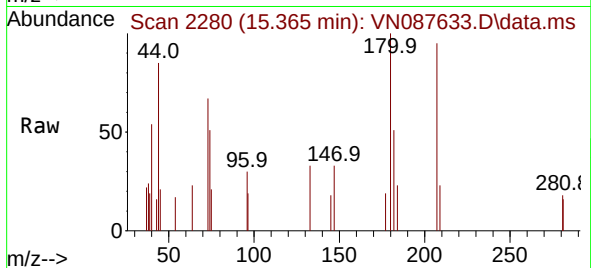
Tgt Ion:180 Resp: 1587

Ion Ratio Lower Upper

180 100

182 74.5 47.6 142.9

145 21.9 16.5 49.5



#94

Hexachlorobutadiene

Concen: 0.823 ug/l

RT: 15.464 min Scan# 2297

Delta R.T. -0.012 min

Lab File: VN087633.D

Acq: 22 Aug 2025 12:16

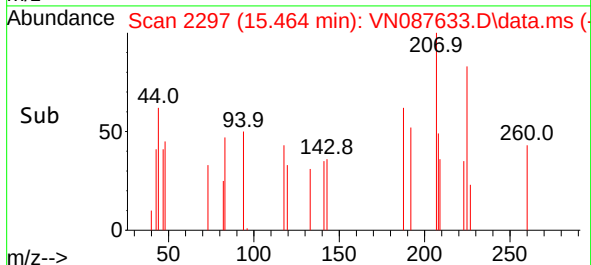
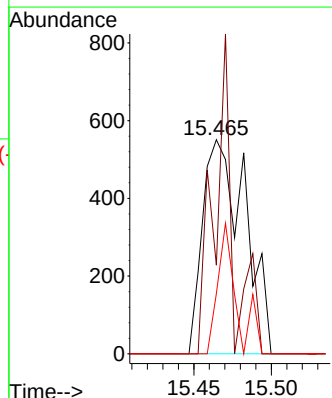
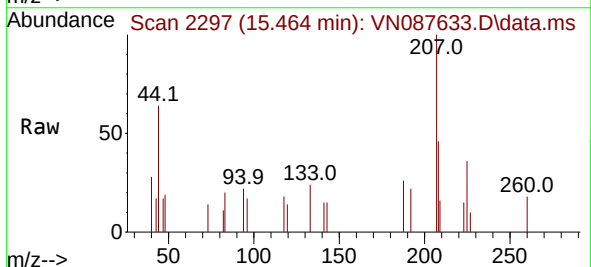
Tgt Ion:225 Resp: 1056

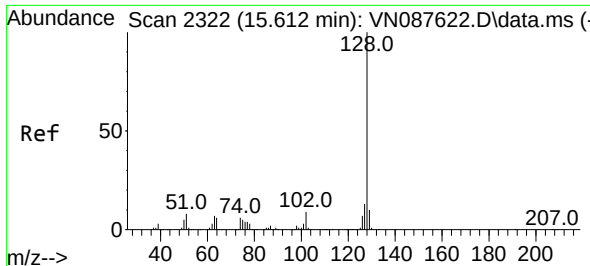
Ion Ratio Lower Upper

225 100

223 56.5 32.0 96.2

227 26.6 32.1 96.5#

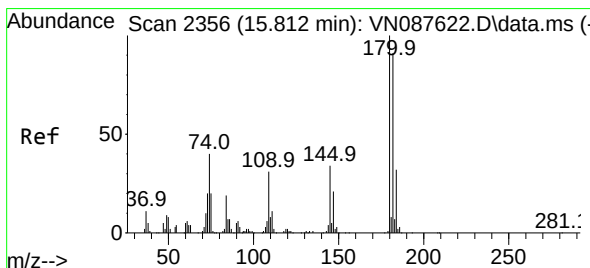
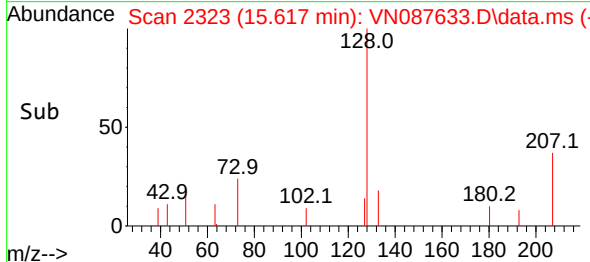
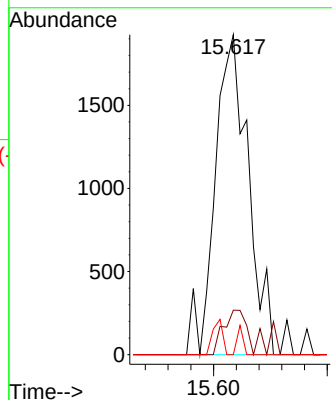
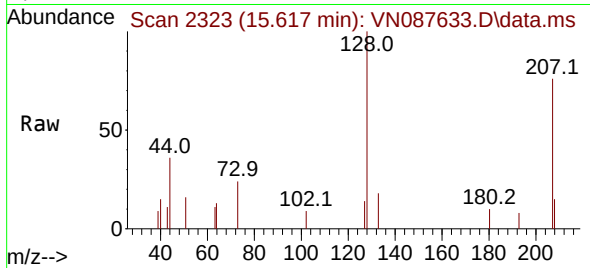




#95
Naphthalene
Concen: 0.306 ug/l
RT: 15.617 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN087633.D
Acq: 22 Aug 2025 12:16

Instrument :
MSVOA_N
ClientSampleId :
IBLK

Tgt Ion:128	Resp:	3904
Ion Ratio	Lower	Upper
128	100	
127	9.4	10.6 15.8#
129	1.6	8.6 12.8#



#96
1,2,3-Trichlorobenzene
Concen: 0.366 ug/l
RT: 15.800 min Scan# 2354
Delta R.T. -0.012 min
Lab File: VN087633.D
Acq: 22 Aug 2025 12:16

Tgt Ion:180	Resp:	1288
Ion Ratio	Lower	Upper
180	100	
182	97.9	46.8 140.3
145	0.0	17.3 52.0#

