

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020725\
 Data File : VN085696.D
 Acq On : 07 Feb 2025 14:14
 Operator : JC\MD
 Sample : PB166592TB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 07 22:30:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

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

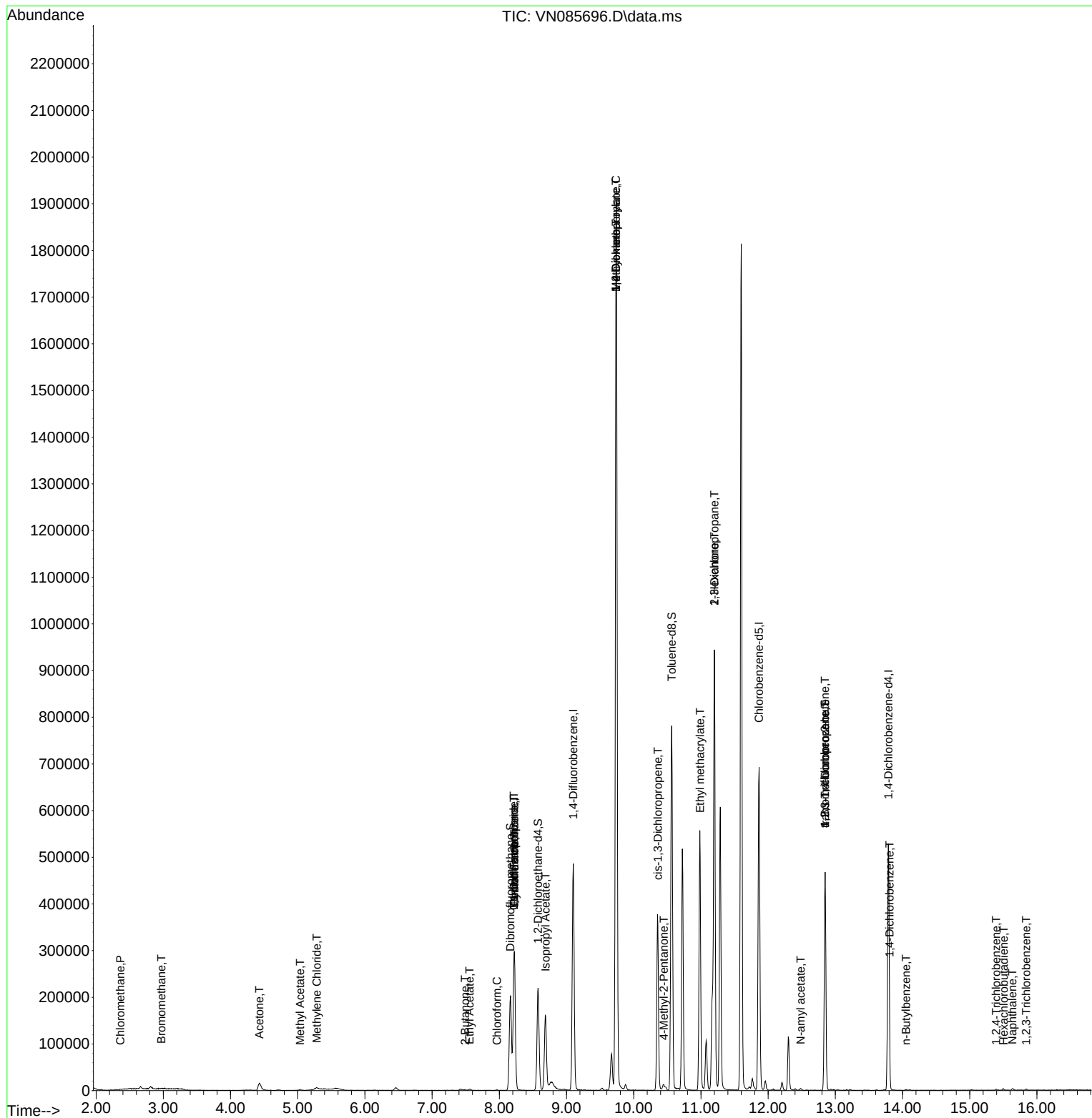
Internal Standards						
1) Pentafluorobenzene	8.224	168	210352	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	410151	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	398261	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	143233	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	178938	52.698	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 105.400%			
35) Dibromofluoromethane	8.165	113	144737	50.866	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.740%			
50) Toluene-d8	10.565	98	539986	53.412	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.820%			
62) 4-Bromofluorobenzene	12.847	95	160770	46.488	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 92.980%			
Target Compounds					Qvalue	
3) Chloromethane	2.360	50	830	0.269	ug/l	91
5) Bromomethane	2.971	94	992	0.530	ug/l #	64
16) Acetone	4.430	43	29810	27.171	ug/l	97
18) Methyl Acetate	5.036	43	2877	0.862	ug/l #	90
20) Methylene Chloride	5.283	84	2614	0.962	ug/l #	80
25) 2-Butanone	7.489	43	2484	1.539	ug/l	96
30) Chloroform	7.965	83	1115	0.218	ug/l	96
31) Cyclohexane	8.224	56	4868	1.130	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	18420	4.612	ug/l #	52
37) Ethyl Acetate	7.559	43	4756	1.180	ug/l #	89
38) Carbon Tetrachloride	8.218	117	22481	4.917	ug/l #	18
43) Isopropyl Acetate	8.689	43	179694	27.821	ug/l #	90
45) 1,2-Dichloropropane	9.736	63	2657	0.867	ug/l #	43
48) Methyl methacrylate	9.736	41	171738	59.085	ug/l #	46
49) 1,4-Dioxane	9.736	88	203	4.147	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	13461	3.592	ug/l #	76
54) cis-1,3-Dichloropropene	10.359	75	64711	14.228	ug/l #	64
56) Ethyl methacrylate	10.988	69	3290	2.613	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	10046	2.100	ug/l #	43
59) 2-Hexanone	11.200	43	125697	47.663	ug/l #	56
74) N-amyl acetate	12.482	43	1979	0.455	ug/l #	46
76) 1,2,3-Trichloropropane	12.847	75	83874	28.810	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	83874	77.948	ug/l #	3
88) 1,4-Dichlorobenzene	13.806	146	1302	0.270	ug/l #	62
89) n-Butylbenzene	14.053	91	1771	0.266	ug/l	91
93) 1,2,4-Trichlorobenzene	15.394	180	943	0.437	ug/l	89
94) Hexachlorobutadiene	15.506	225	908	0.793	ug/l	81
95) Naphthalene	15.635	128	4165	0.647	ug/l #	93
96) 1,2,3-Trichlorobenzene	15.841	180	1357	0.622	ug/l	88

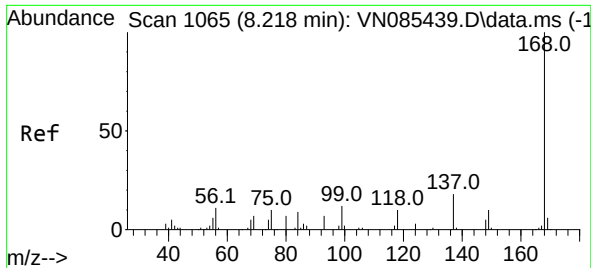
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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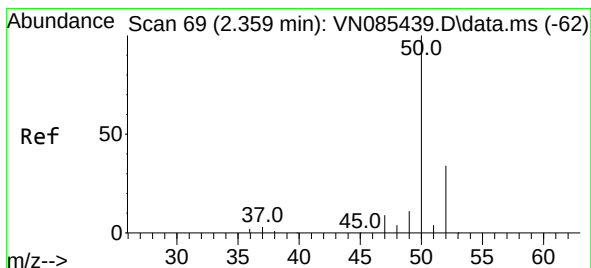
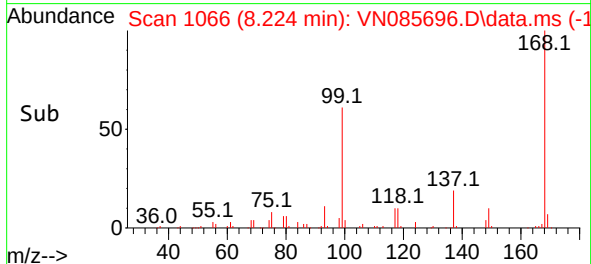
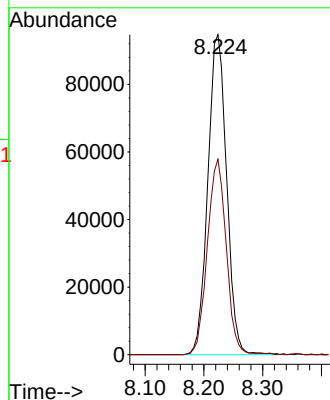
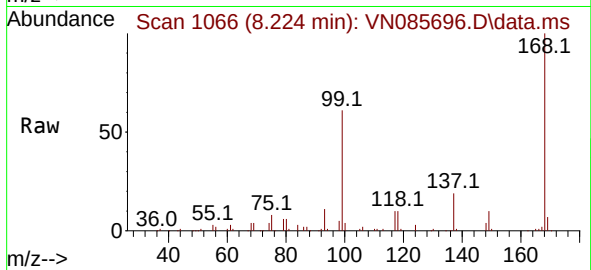




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085696.D
Acq: 07 Feb 2025 14:14

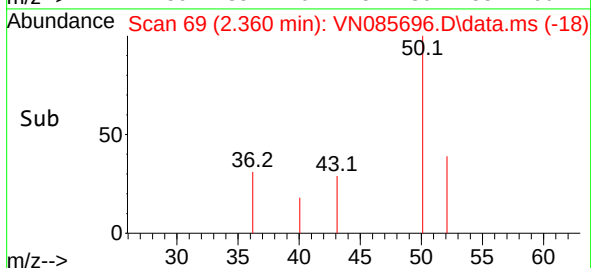
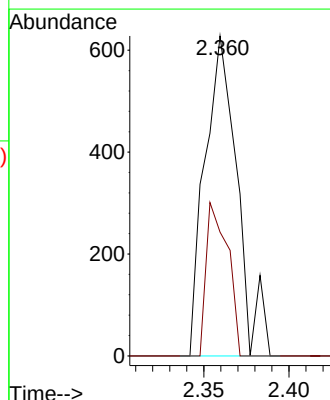
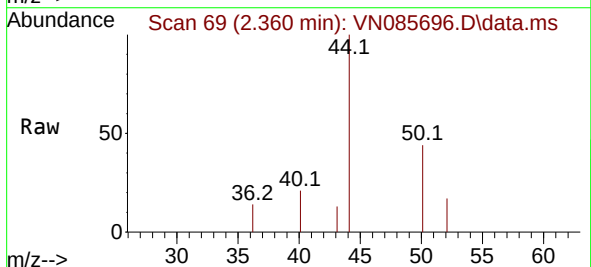
Instrument :
MSVOA_N
ClientSampleId :

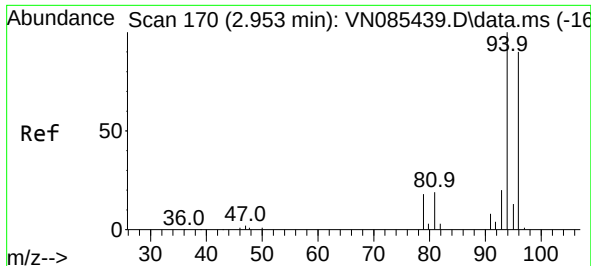
Tgt Ion:168 Resp: 210352
Ion Ratio Lower Upper
168 100
99 61.1 53.6 80.4



#3
Chloromethane
Concen: 0.269 ug/l
RT: 2.360 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085696.D
Acq: 07 Feb 2025 14:14

Tgt Ion: 50 Resp: 830
Ion Ratio Lower Upper
50 100
52 38.7 27.0 40.6

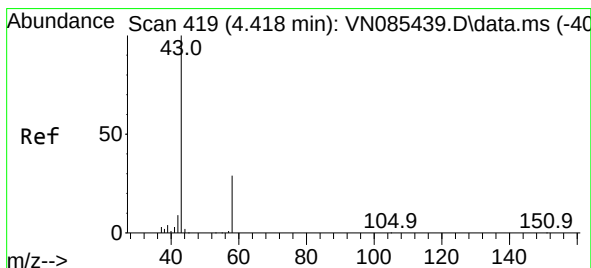
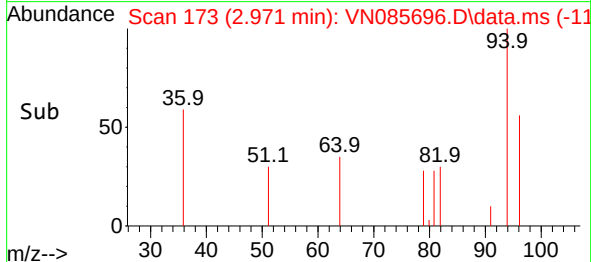
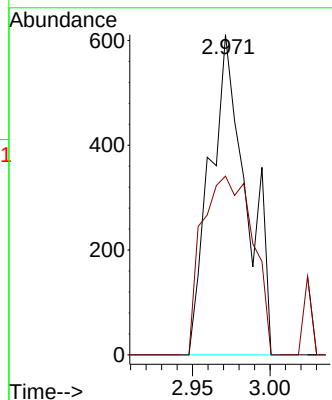
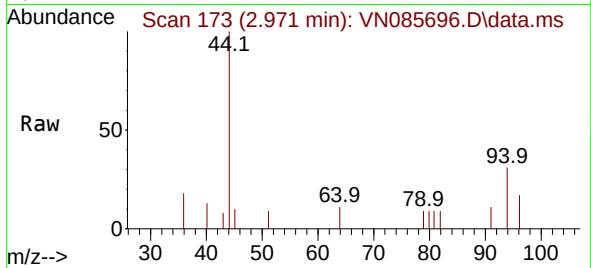




#5
Bromomethane
Concen: 0.530 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN085696.D
Acq: 07 Feb 2025 14:14

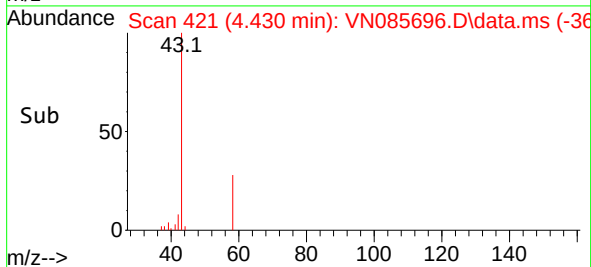
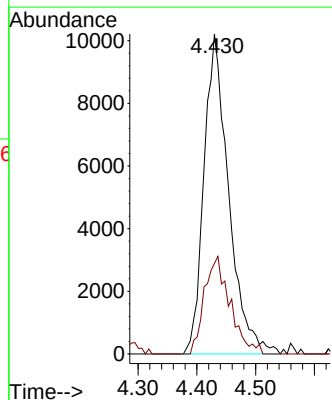
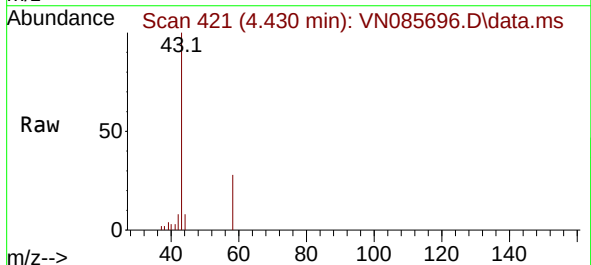
Instrument :
MSVOA_N
ClientSampleId :

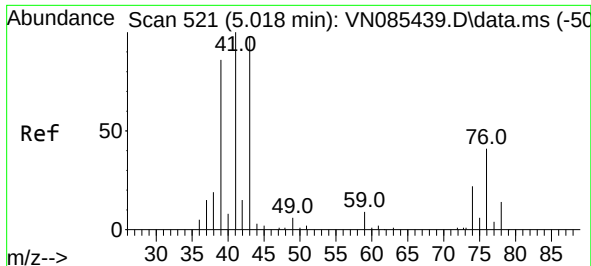
Tgt Ion: 94 Resp: 992
Ion Ratio Lower Upper
94 100
96 55.8 71.8 107.6#



#16
Acetone
Concen: 27.171 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.012 min
Lab File: VN085696.D
Acq: 07 Feb 2025 14:14

Tgt Ion: 43 Resp: 29810
Ion Ratio Lower Upper
43 100
58 28.3 23.8 35.6

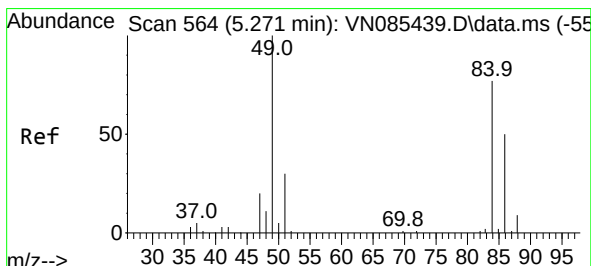
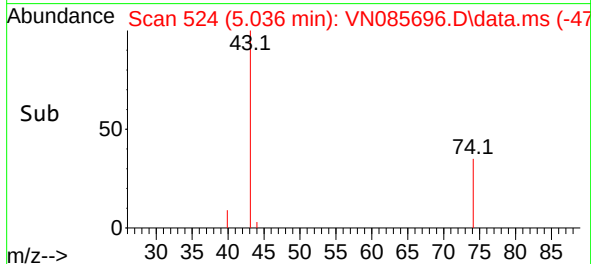
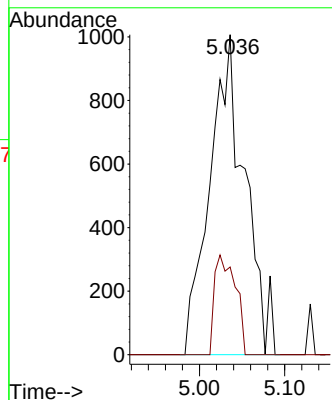
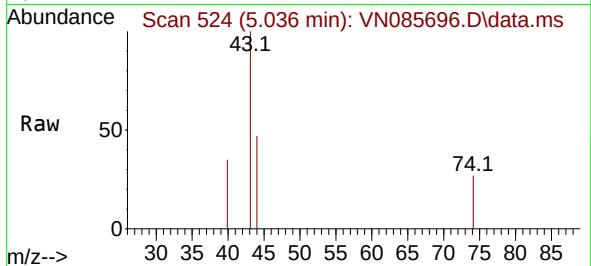




#18
Methyl Acetate
Concen: 0.862 ug/l
RT: 5.036 min Scan# 51
Delta R.T. 0.018 min
Lab File: VN085696.D
Acq: 07 Feb 2025 14:14

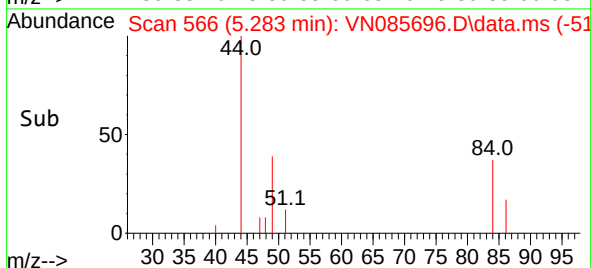
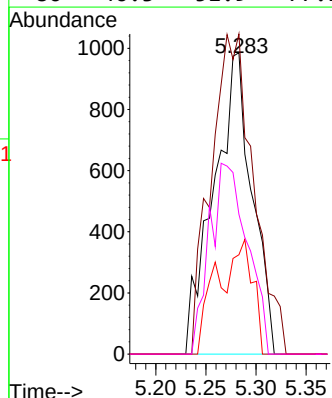
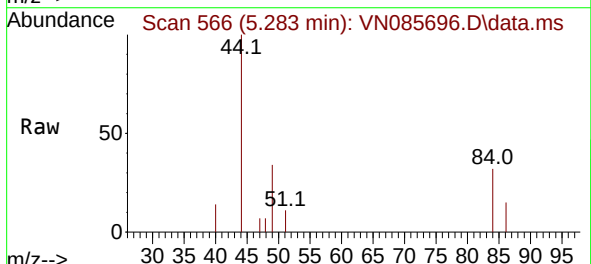
Instrument :
MSVOA_N
ClientSampleId :

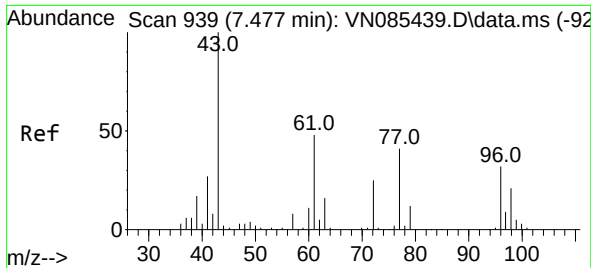
Tgt Ion: 43 Resp: 2877
Ion Ratio Lower Upper
43 100
74 18.6 18.6 28.0#



#20
Methylene Chloride
Concen: 0.962 ug/l
RT: 5.283 min Scan# 566
Delta R.T. 0.012 min
Lab File: VN085696.D
Acq: 07 Feb 2025 14:14

Tgt Ion: 84 Resp: 2614
Ion Ratio Lower Upper
84 100
49 106.2 104.1 156.1
51 33.0 31.0 46.4
86 46.3 51.9 77.9#

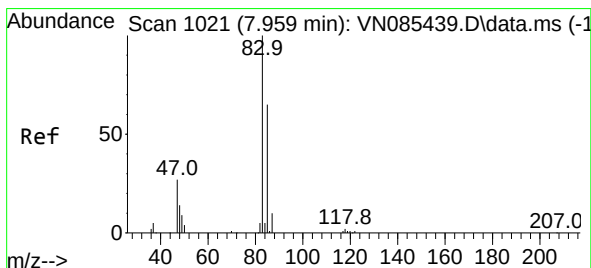
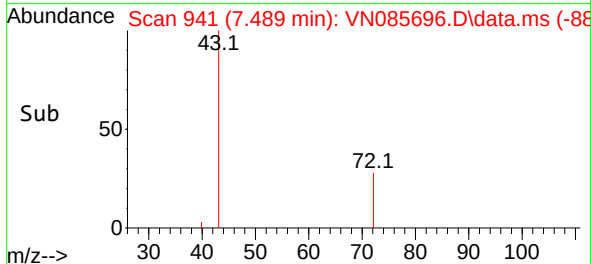
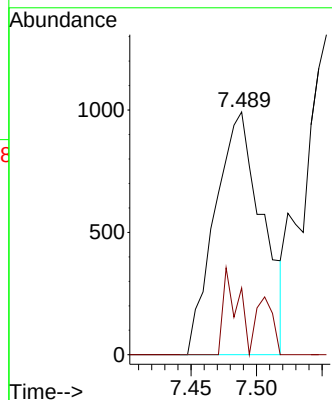
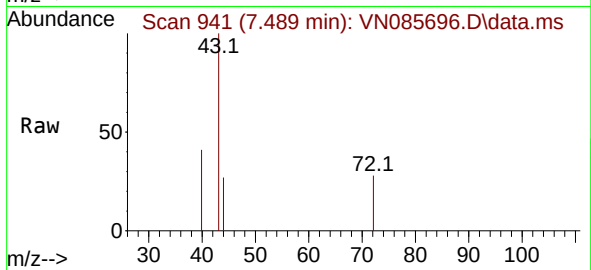




#25
2-Butanone
Concen: 1.539 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN085696.D
Acq: 07 Feb 2025 14:14

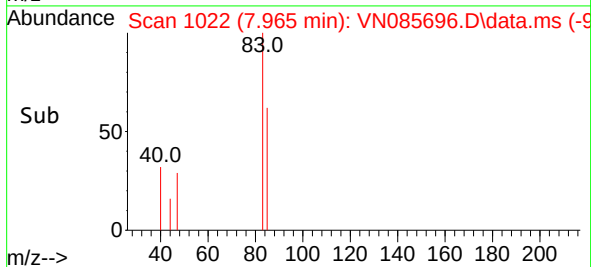
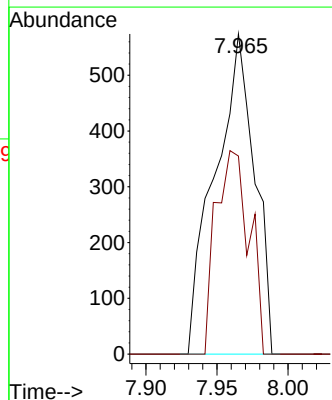
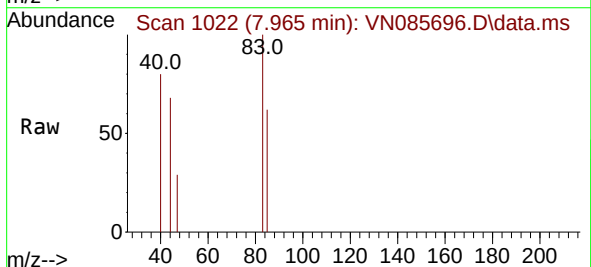
Instrument :
MSVOA_N
ClientSampleId :

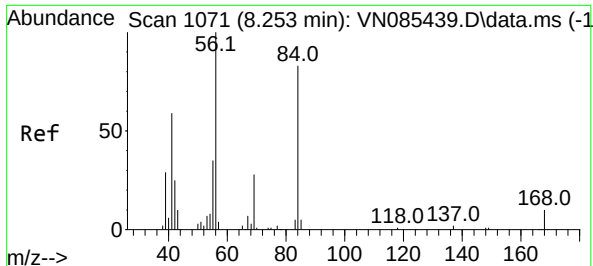
Tgt Ion: 43 Resp: 2484
Ion Ratio Lower Upper
43 100
72 27.5 20.2 30.4



#30
Chloroform
Concen: 0.218 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VN085696.D
Acq: 07 Feb 2025 14:14

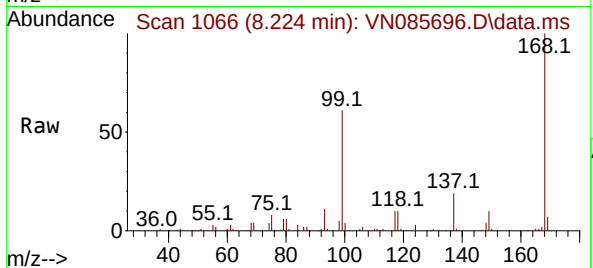
Tgt Ion: 83 Resp: 1115
Ion Ratio Lower Upper
83 100
85 61.8 51.8 77.6



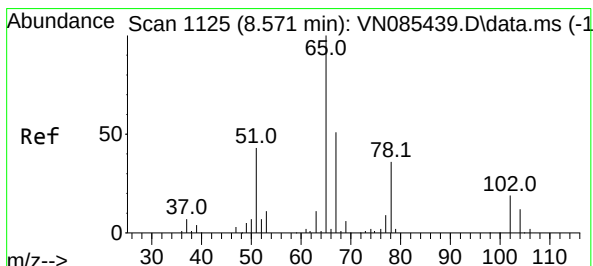
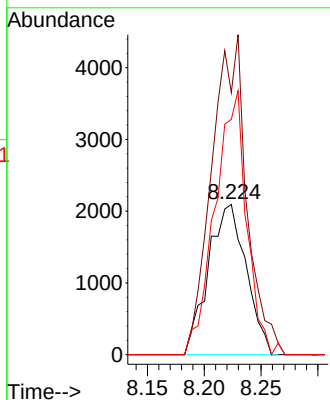
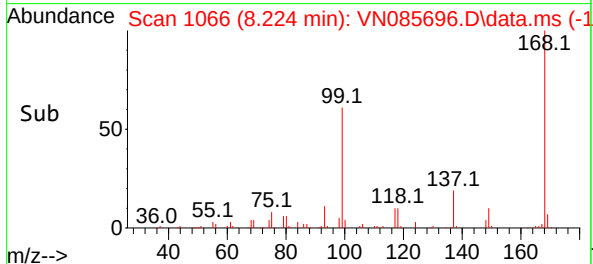


#31
Cyclohexane
Concen: 1.130 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.029 min
Lab File: VN085696.D
Acq: 07 Feb 2025 14:14

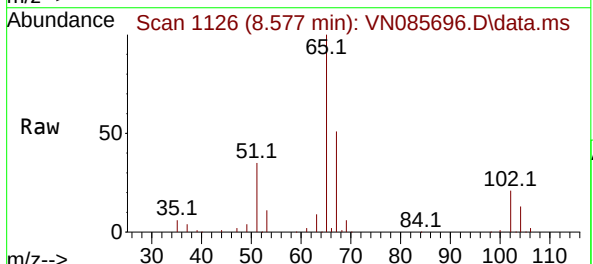
Instrument :
MSVOA_N
ClientSampleId :



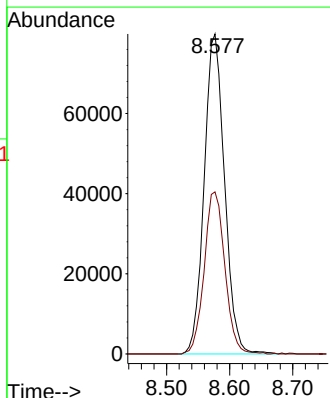
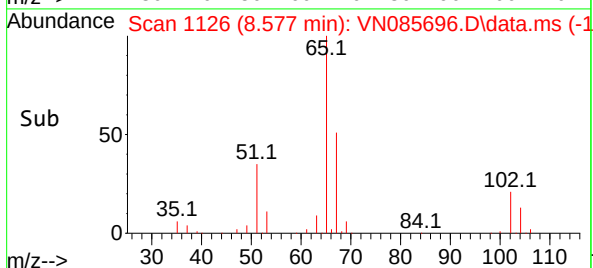
Tgt Ion: 56 Resp: 4868
Ion Ratio Lower Upper
56 100
69 174.4 22.2 33.4#
84 156.6 66.4 99.6#

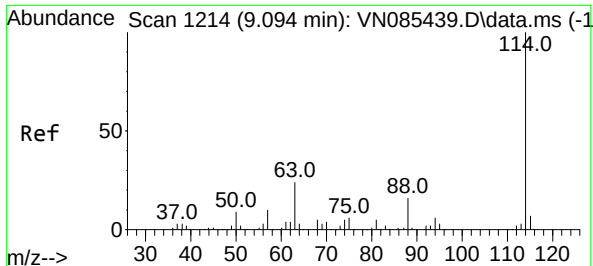


#33
1,2-Dichloroethane-d4
Concen: 52.698 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085696.D
Acq: 07 Feb 2025 14:14



Tgt Ion: 65 Resp: 178938
Ion Ratio Lower Upper
65 100
67 51.3 0.0 101.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN085696.D

Acq: 07 Feb 2025 14:14

Instrument :

MSVOA_N

ClientSampleId :

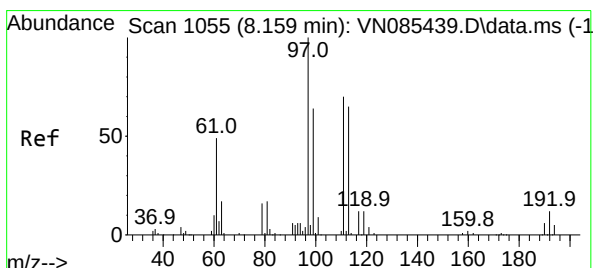
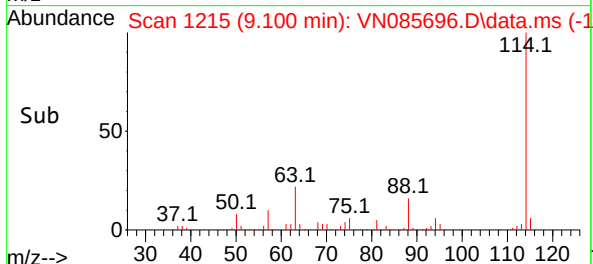
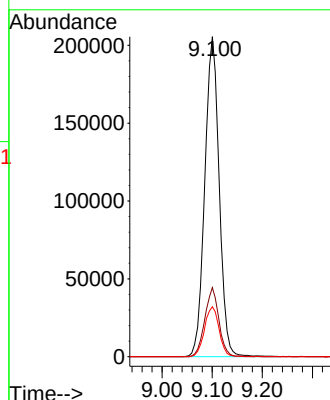
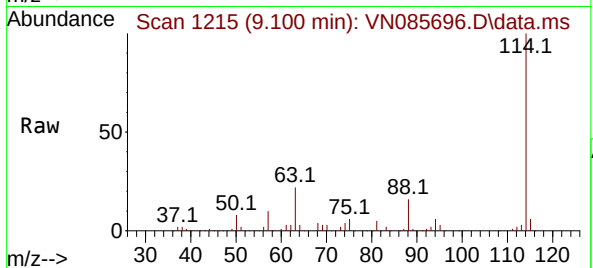
Tgt Ion:114 Resp: 410151

Ion Ratio Lower Upper

114 100

63 21.6 0.0 47.6

88 15.6 0.0 32.6



#35

Dibromofluoromethane

Concen: 50.866 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085696.D

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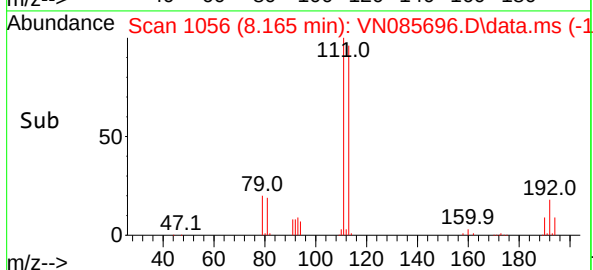
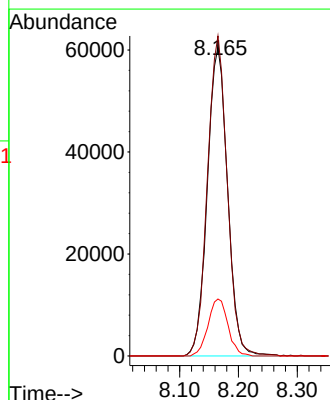
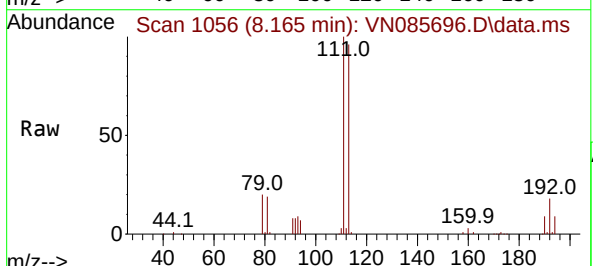
Tgt Ion:113 Resp: 144737

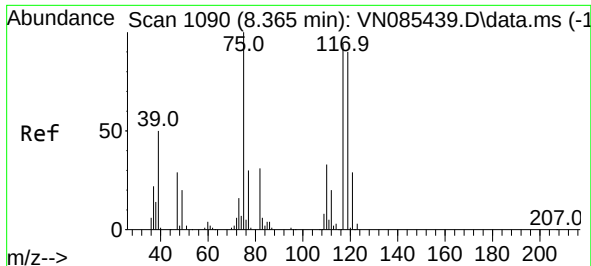
Ion Ratio Lower Upper

113 100

111 101.5 82.7 124.1

192 18.1 14.3 21.5





#36

1,1-Dichloropropene

Concen: 4.612 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

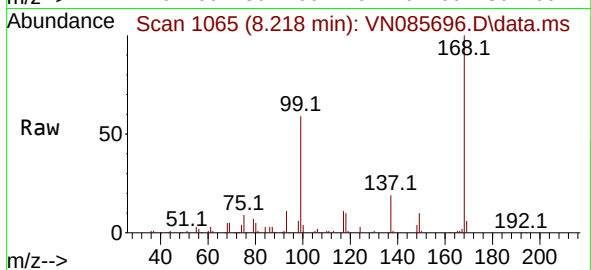
Lab File: VN085696.D

Acq: 07 Feb 2025 14:14

Instrument :

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ClientSampleId :



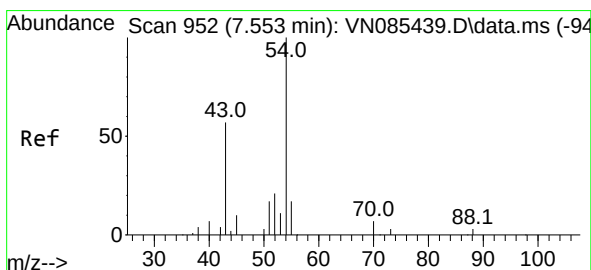
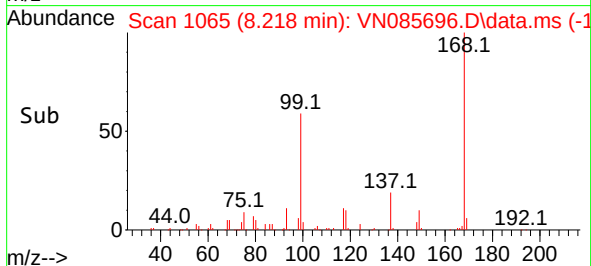
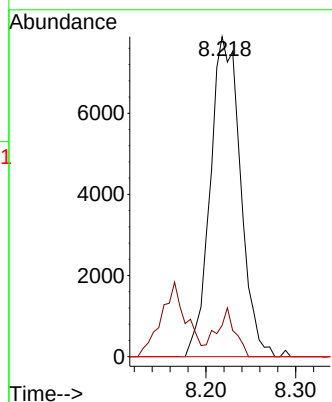
Tgt Ion: 75 Resp: 18420

Ion Ratio Lower Upper

75 100

110 9.5 16.5 49.5#

77 0.0 24.4 36.6#



#37

Ethyl Acetate

Concen: 1.180 ug/l

RT: 7.559 min Scan# 953

Delta R.T. 0.006 min

Lab File: VN085696.D

Acq: 07 Feb 2025 14:14

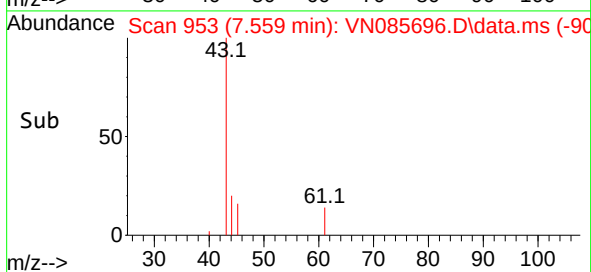
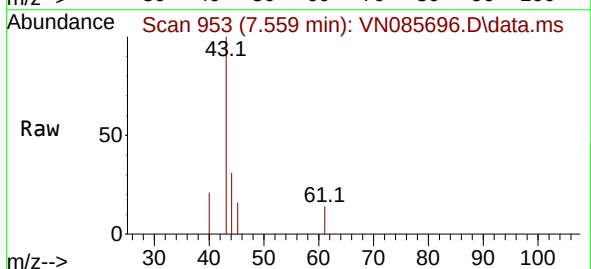
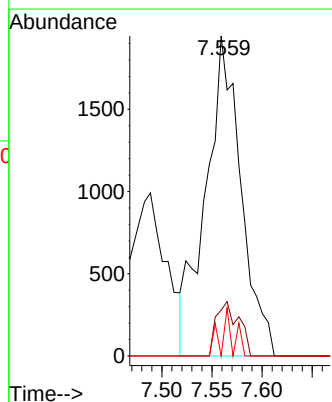
Tgt Ion: 43 Resp: 4756

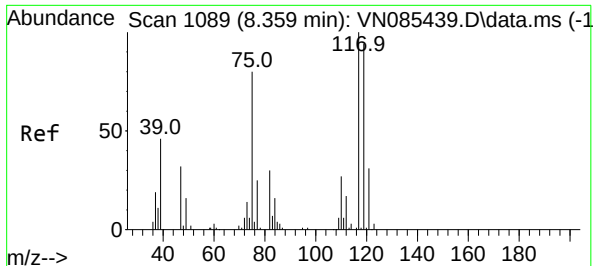
Ion Ratio Lower Upper

43 100

61 10.8 10.9 16.3#

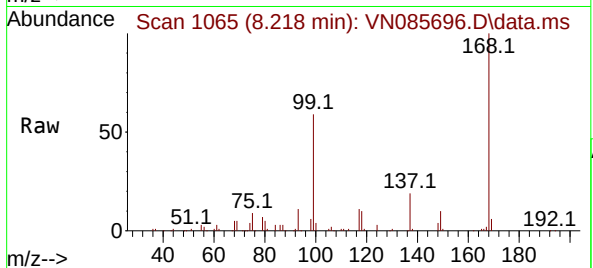
70 3.7 7.5 11.3#



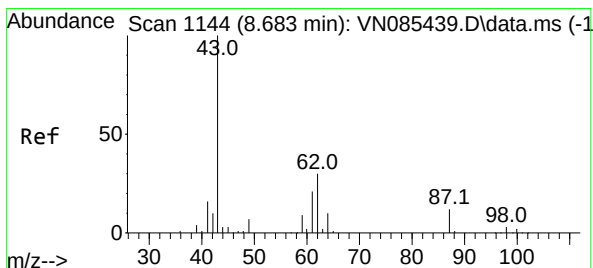
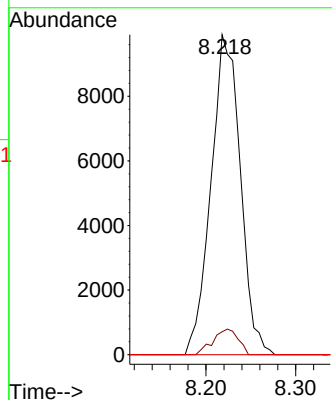
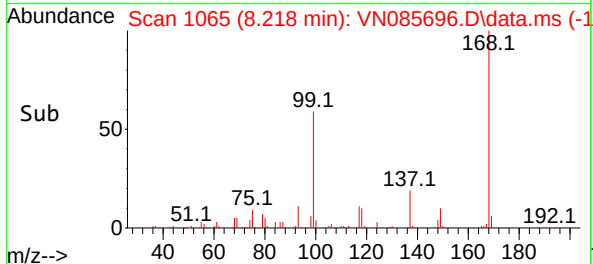


#38
Carbon Tetrachloride
Concen: 4.917 ug/l
RT: 8.218 min Scan# 110
Delta R.T. -0.141 min
Lab File: VN085696.D
Acq: 07 Feb 2025 14:14

Instrument :
MSVOA_N
ClientSampleId :

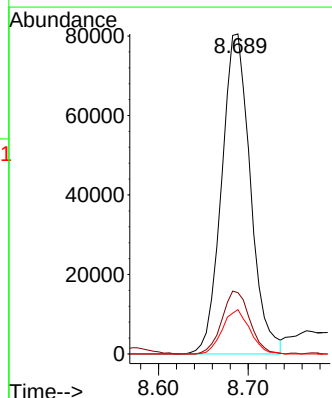
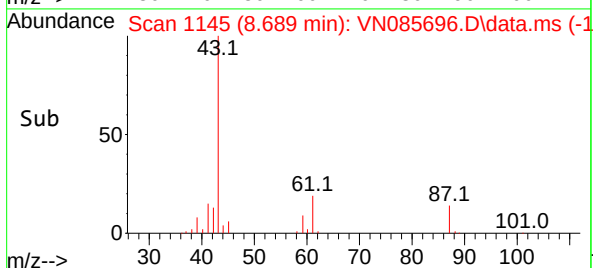
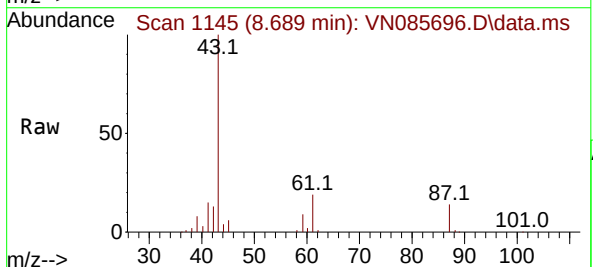


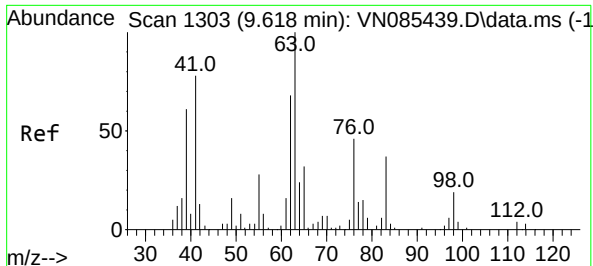
Tgt Ion:117 Resp: 22481
Ion Ratio Lower Upper
117 100
119 7.2 75.4 113.2#
121 0.0 24.6 37.0#



#43
Isopropyl Acetate
Concen: 27.821 ug/l
RT: 8.689 min Scan# 1145
Delta R.T. 0.006 min
Lab File: VN085696.D
Acq: 07 Feb 2025 14:14

Tgt Ion: 43 Resp: 179694
Ion Ratio Lower Upper
43 100
61 18.9 20.7 31.1#
87 13.2 9.8 14.8





#45

1,2-Dichloropropane

Concen: 0.867 ug/l

RT: 9.736 min Scan# 1323

Delta R.T. 0.118 min

Lab File: VN085696.D

Acq: 07 Feb 2025 14:14

Instrument :

MSVOA_N

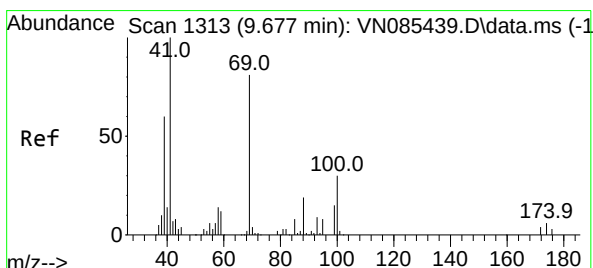
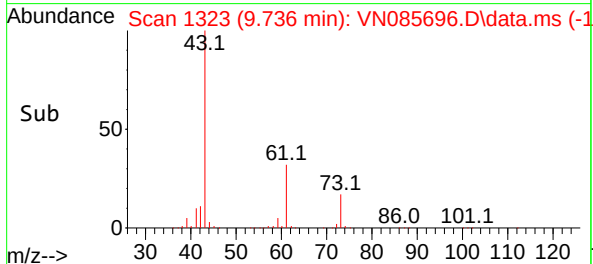
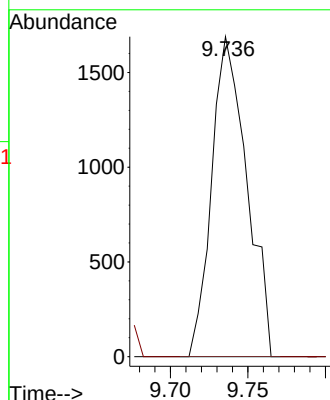
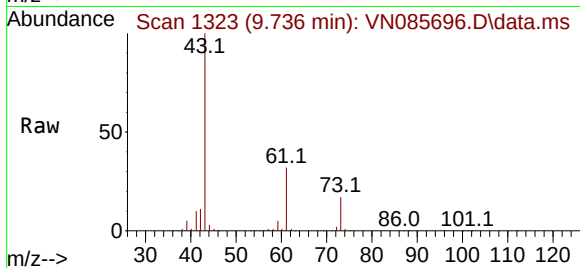
ClientSampleId :

Tgt Ion: 63 Resp: 2657

Ion Ratio Lower Upper

63 100

65 0.0 25.6 38.4#



#48

Methyl methacrylate

Concen: 59.085 ug/l

RT: 9.736 min Scan# 1323

Delta R.T. 0.059 min

Lab File: VN085696.D

Acq: 07 Feb 2025 14:14

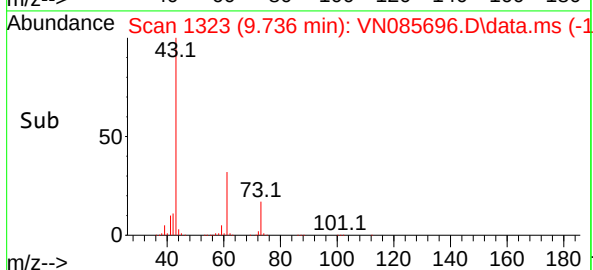
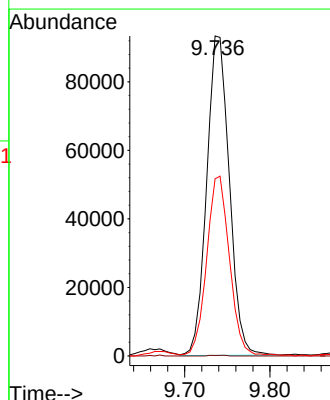
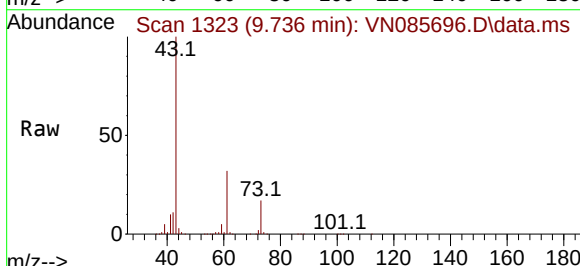
Tgt Ion: 41 Resp: 171738

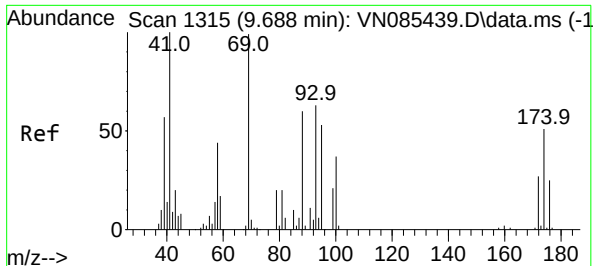
Ion Ratio Lower Upper

41 100

69 0.1 64.7 97.1#

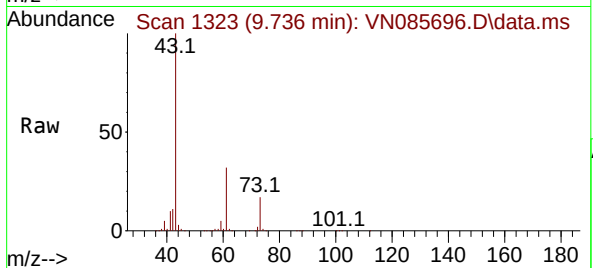
39 57.2 49.0 73.6



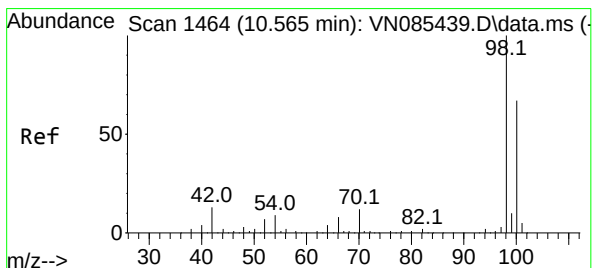
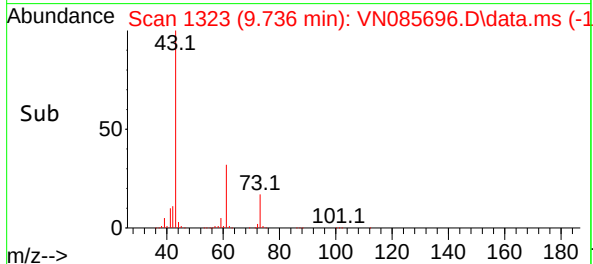
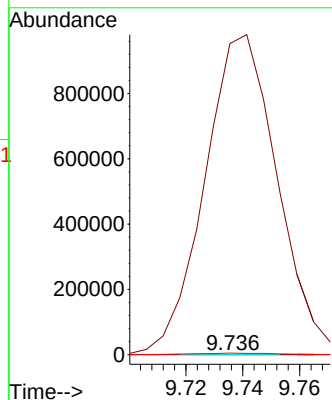


#49
1,4-Dioxane
Concen: 4.147 ug/l
RT: 9.736 min Scan# 11
Delta R.T. 0.047 min
Lab File: VN085696.D
Acq: 07 Feb 2025 14:14

Instrument :
MSVOA_N
ClientSampleId :

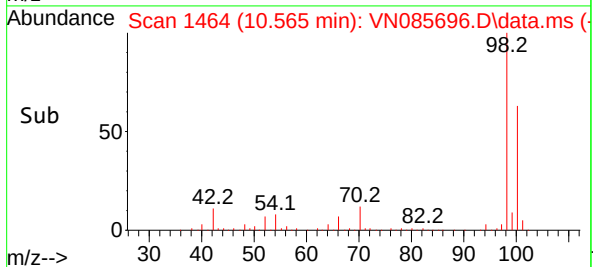
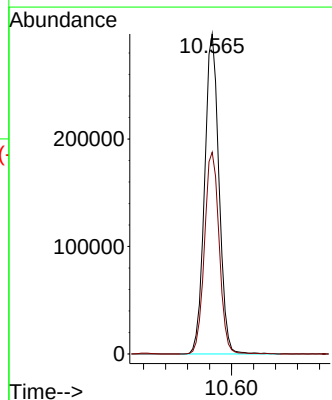
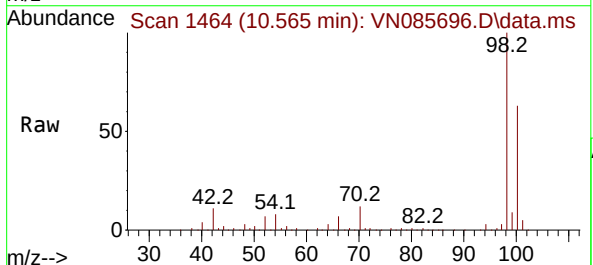


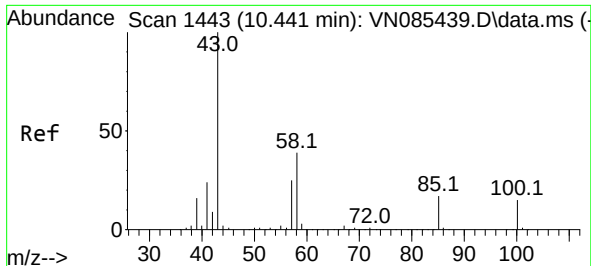
Tgt Ion: 88 Resp: 203
Ion Ratio Lower Upper
88 100
43 863862.6 26.6 39.8#
58 4947.3 59.5 89.3#



#50
Toluene-d8
Concen: 53.412 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085696.D
Acq: 07 Feb 2025 14:14

Tgt Ion: 98 Resp: 539986
Ion Ratio Lower Upper
98 100
100 64.5 52.2 78.4

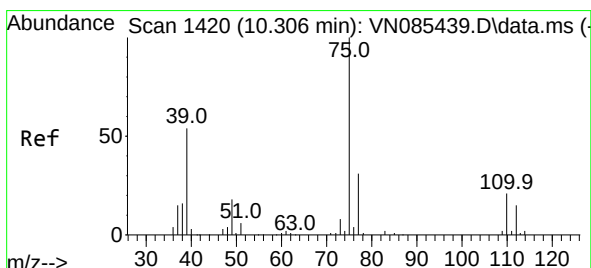
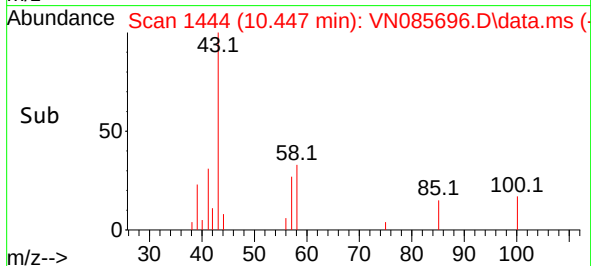
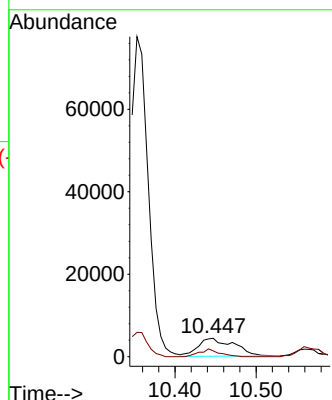
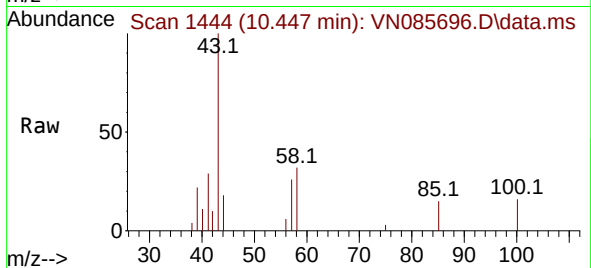




#51
4-Methyl-2-Pentanone
Concen: 3.592 ug/l
RT: 10.447 min Scan# 1443
Delta R.T. 0.006 min
Lab File: VN085696.D
Acq: 07 Feb 2025 14:14

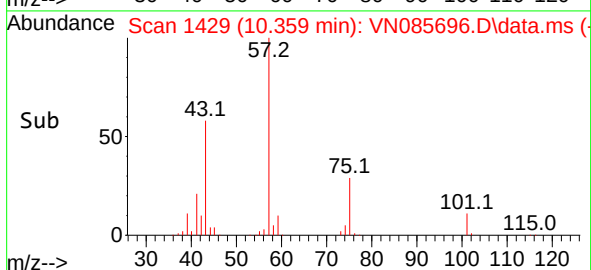
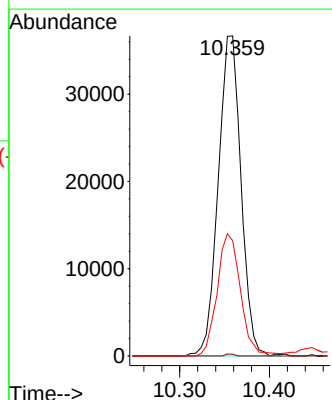
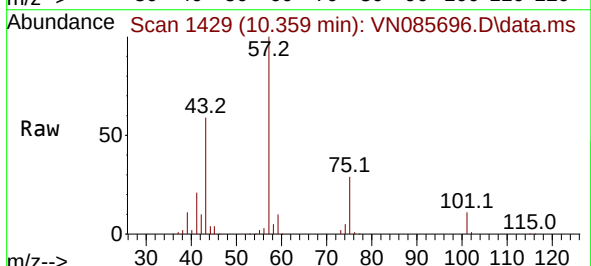
Instrument :
MSVOA_N
ClientSampleId :

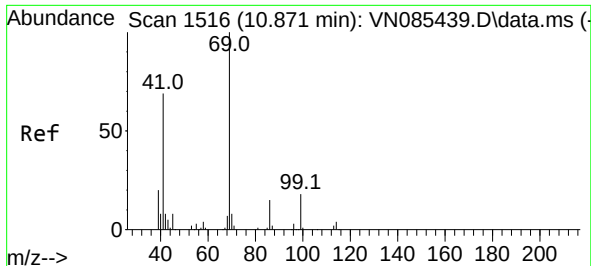
Tgt Ion: 43 Resp: 13461
Ion Ratio Lower Upper
43 100
58 23.4 30.5 45.7#



#54
cis-1,3-Dichloropropene
Concen: 14.228 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.053 min
Lab File: VN085696.D
Acq: 07 Feb 2025 14:14

Tgt Ion: 75 Resp: 64711
Ion Ratio Lower Upper
75 100
77 0.5 25.0 37.4#
39 36.1 43.1 64.7#

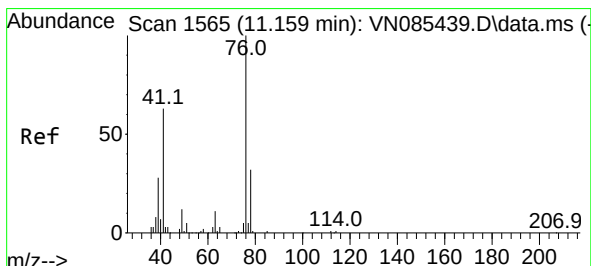
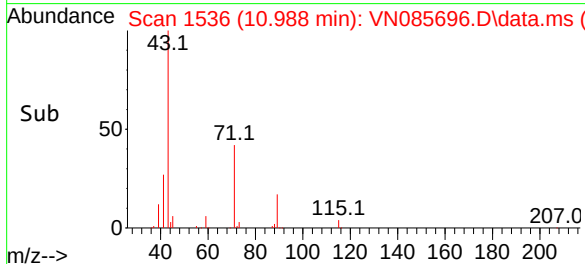
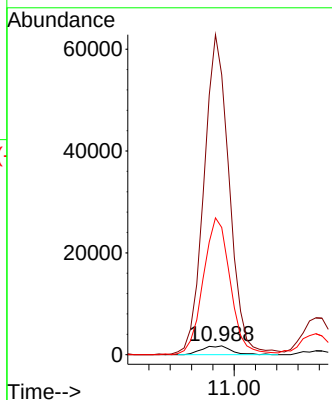
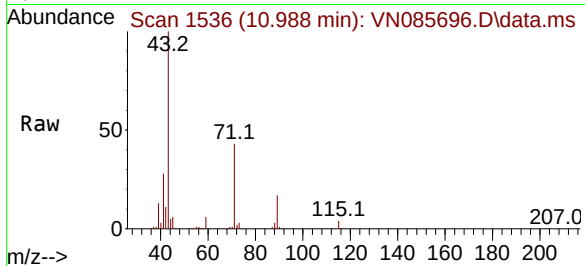




#56
Ethyl methacrylate
Concen: 2.613 ug/l
RT: 10.988 min Scan# 1536
Delta R.T. 0.117 min
Lab File: VN085696.D
Acq: 07 Feb 2025 14:14

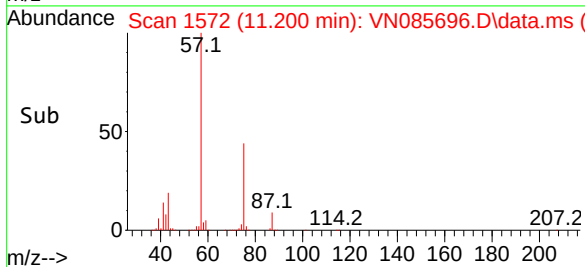
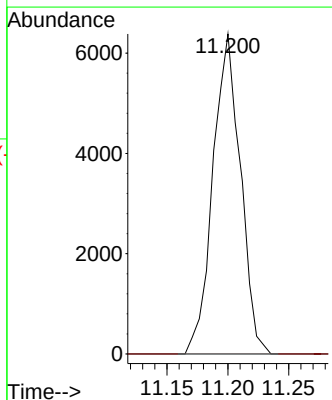
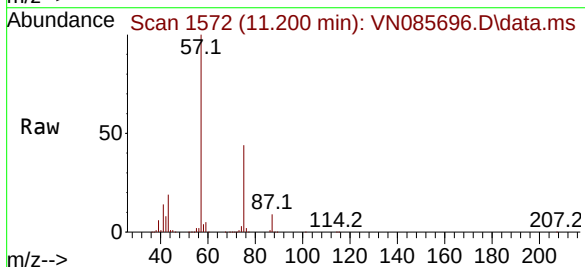
Instrument :
MSVOA_N
ClientSampleId :

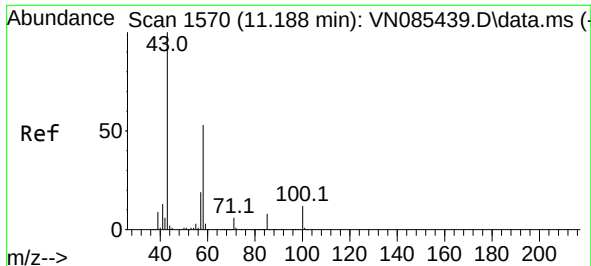
Tgt Ion: 69 Resp: 3290
Ion Ratio Lower Upper
69 100
41 3161.8 54.6 82.0#
39 1442.8 32.4 48.6#



#57
1,3-Dichloropropane
Concen: 2.100 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN085696.D
Acq: 07 Feb 2025 14:14

Tgt Ion: 76 Resp: 10046
Ion Ratio Lower Upper
76 100
78 0.0 25.6 38.4#

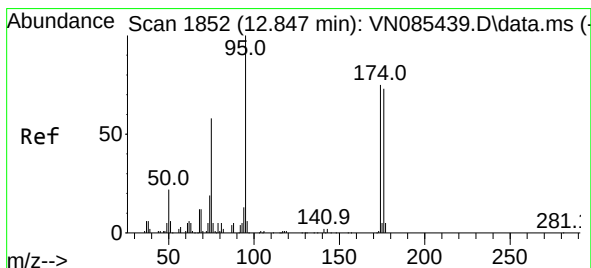
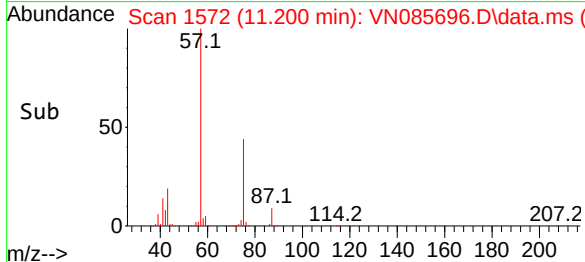
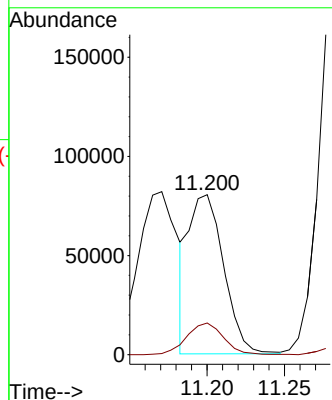
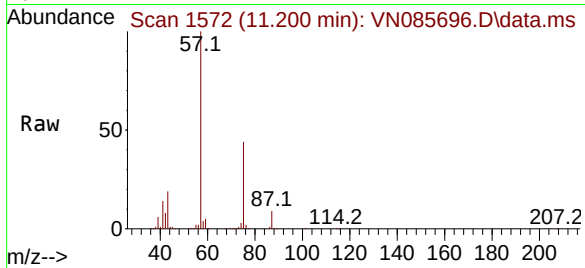




#59
2-Hexanone
Concen: 47.663 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN085696.D
Acq: 07 Feb 2025 14:14

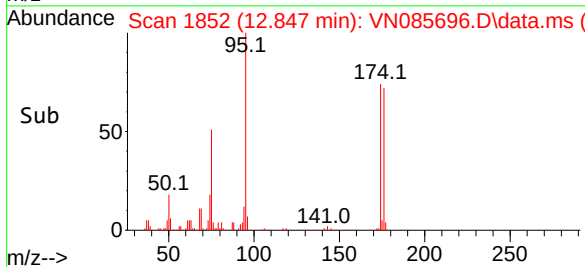
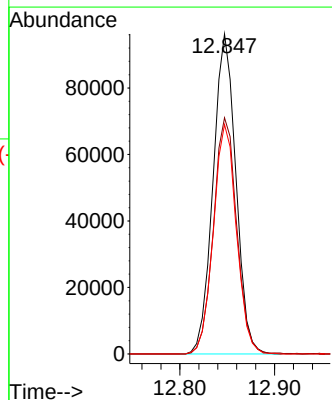
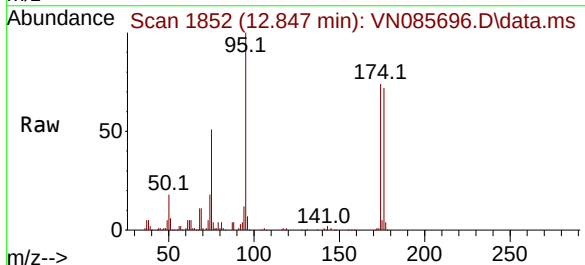
Instrument :
MSVOA_N
ClientSampleId :

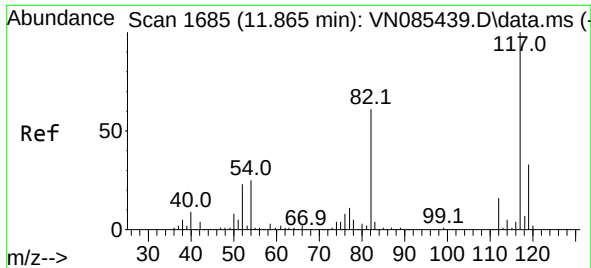
Tgt Ion: 43 Resp: 125697
Ion Ratio Lower Upper
43 100
58 21.2 26.2 78.6#



#62
4-Bromofluorobenzene
Concen: 46.488 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085696.D
Acq: 07 Feb 2025 14:14

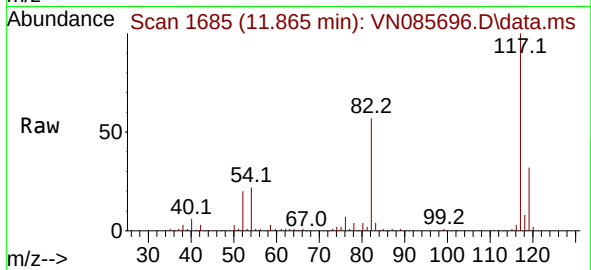
Tgt Ion: 95 Resp: 160770
Ion Ratio Lower Upper
95 100
174 75.5 0.0 145.0
176 72.5 0.0 142.4



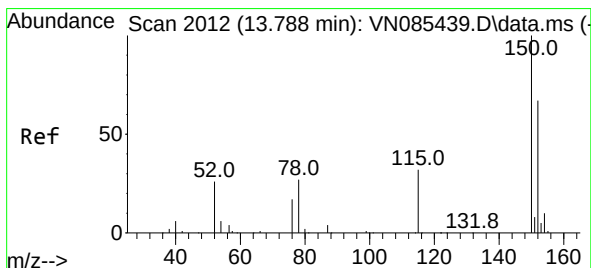
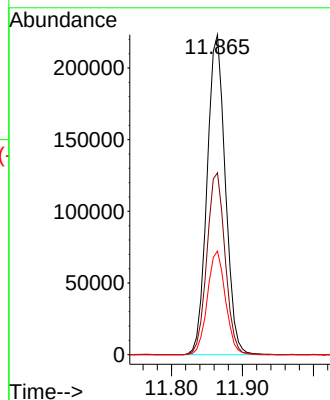
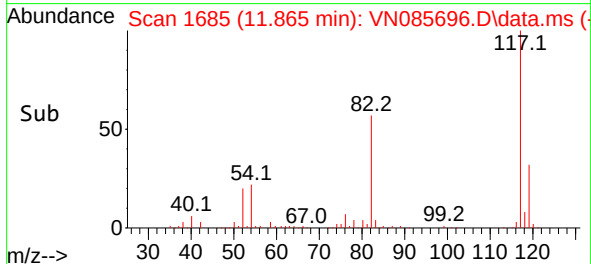


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN085696.D
Acq: 07 Feb 2025 14:14

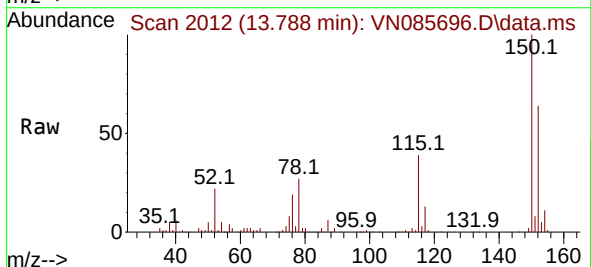
Instrument :
MSVOA_N
ClientSampleId :



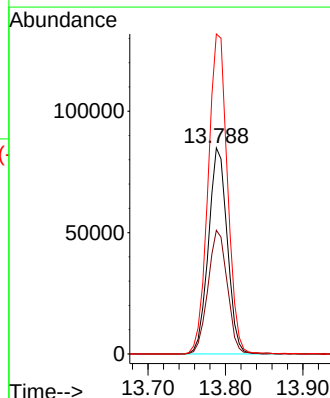
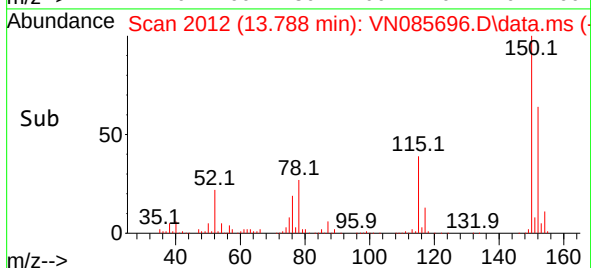
Tgt Ion:117 Resp: 398261
Ion Ratio Lower Upper
117 100
82 56.8 48.6 72.8
119 32.4 26.6 39.8

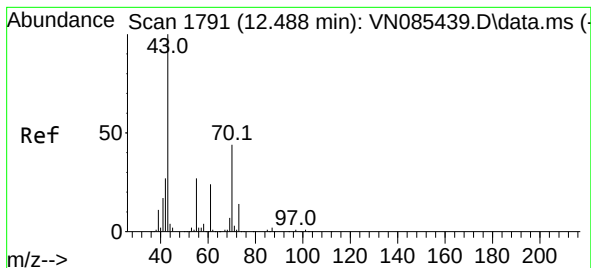


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085696.D
Acq: 07 Feb 2025 14:14



Tgt Ion:152 Resp: 143233
Ion Ratio Lower Upper
152 100
115 61.5 31.1 93.3
150 159.4 0.0 343.6





#74

N-amy1 acetate

Concen: 0.455 ug/l

RT: 12.482 min Scan# 1

Delta R.T. -0.006 min

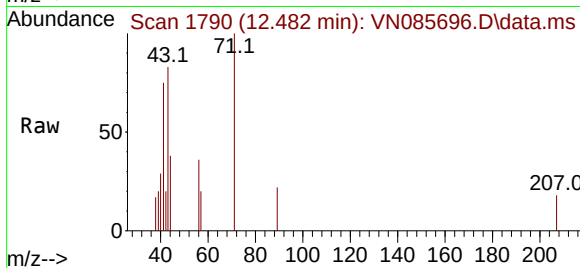
Lab File: VN085696.D

Acq: 07 Feb 2025 14:14

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 43 Resp: 1979

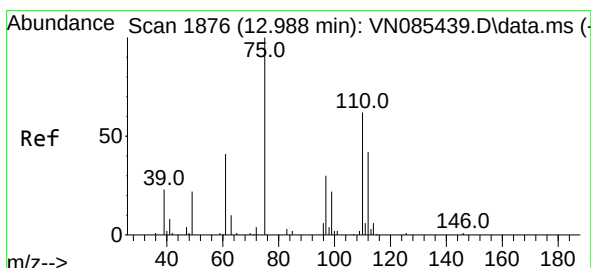
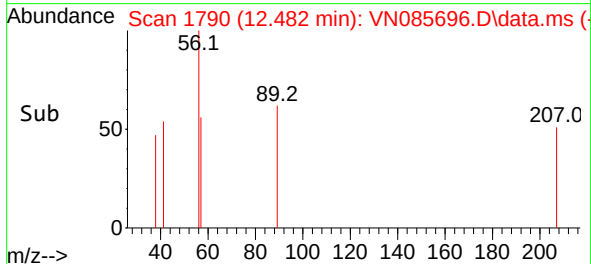
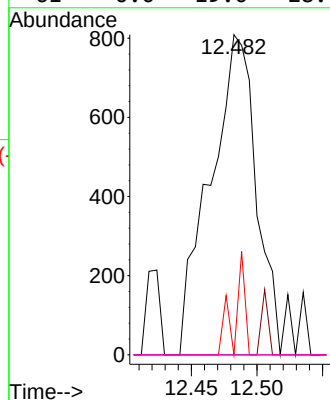
Ion Ratio Lower Upper

43 100

70 0.0 34.0 51.0#

55 7.3 21.4 32.2#

61 0.0 19.0 28.4#



#76

1,2,3-Trichloropropane

Concen: 28.810 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN085696.D

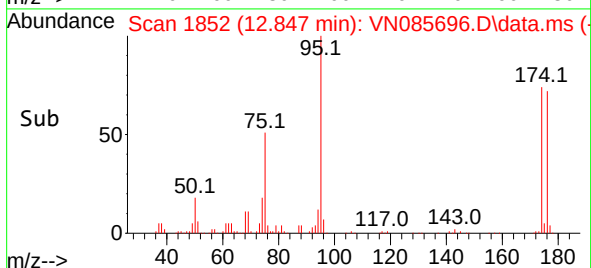
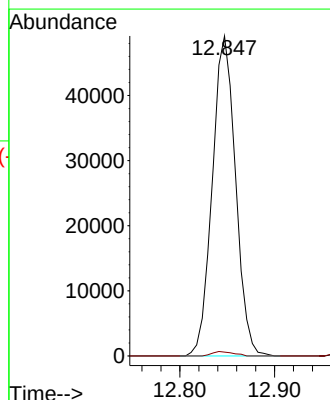
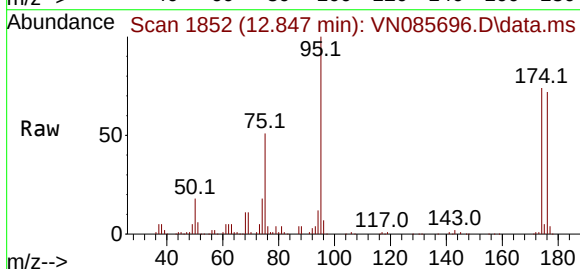
Acq: 07 Feb 2025 14:14

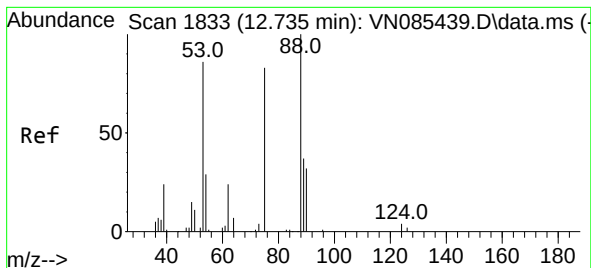
Tgt Ion: 75 Resp: 83874

Ion Ratio Lower Upper

75 100

77 1.3 109.7 329.2#

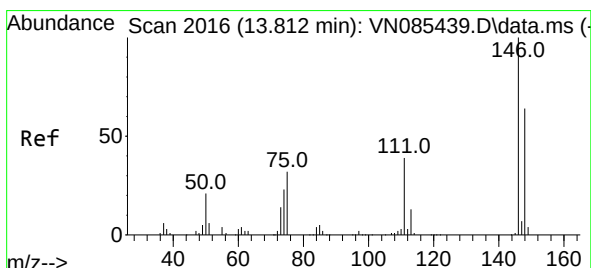
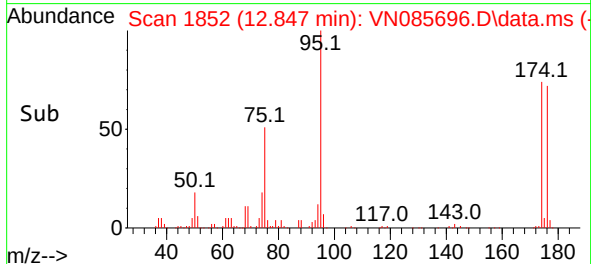
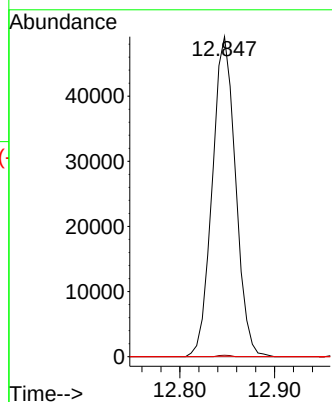
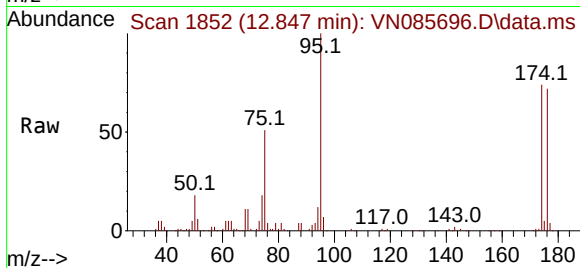




#81
 trans-1,4-Dichloro-2-butene
 Concen: 77.948 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. 0.112 min
 Lab File: VN085696.D
 Acq: 07 Feb 2025 14:14

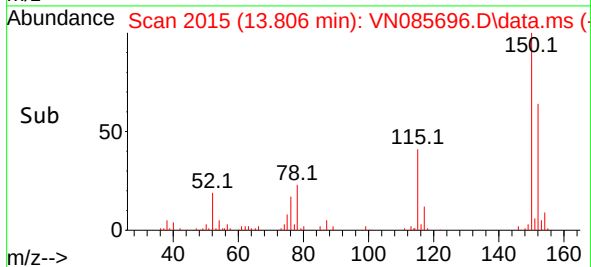
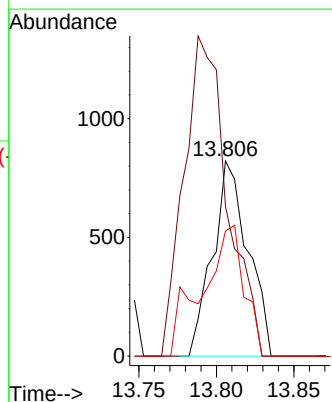
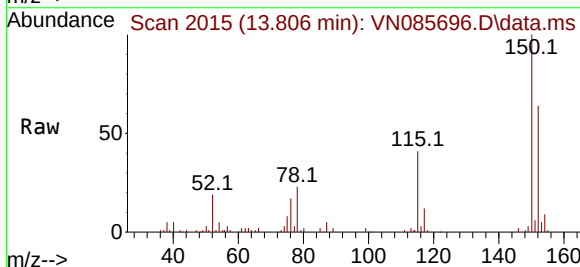
Instrument :
 MSVOA_N
 ClientSampleId :

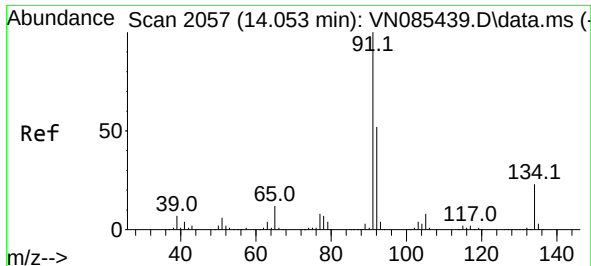
Tgt Ion: 75 Resp: 83874
 Ion Ratio Lower Upper
 75 100
 53 0.2 95.6 143.4#
 89 0.0 37.0 55.6#



#88
 1,4-Dichlorobenzene
 Concen: 0.270 ug/l
 RT: 13.806 min Scan# 2015
 Delta R.T. -0.006 min
 Lab File: VN085696.D
 Acq: 07 Feb 2025 14:14

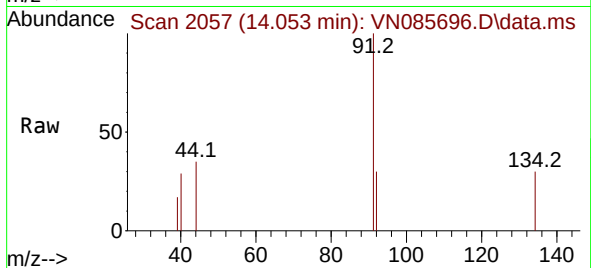
Tgt Ion:146 Resp: 1302
 Ion Ratio Lower Upper
 146 100
 111 0.0 21.3 63.7#
 148 79.9 32.4 97.0



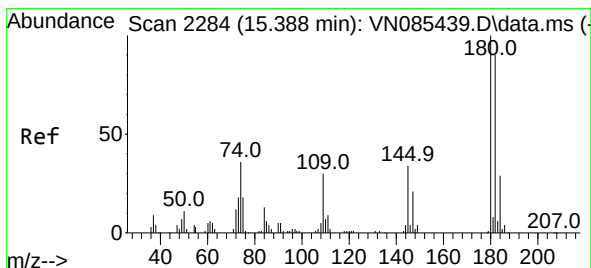
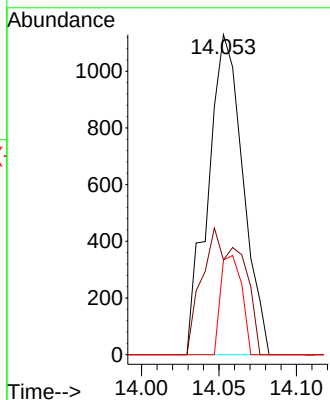
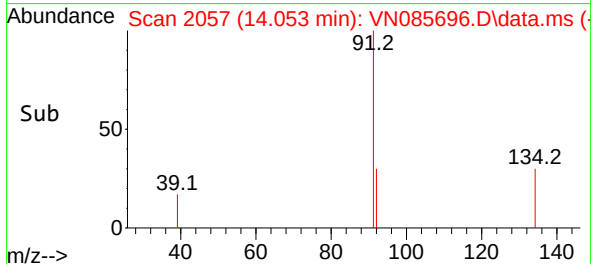


#89
n-Butylbenzene
Concen: 0.266 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN085696.D
Acq: 07 Feb 2025 14:14

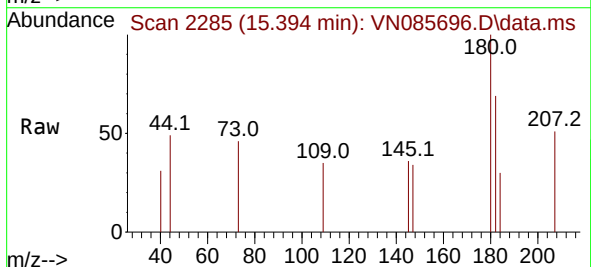
Instrument :
MSVOA_N
ClientSampleId :



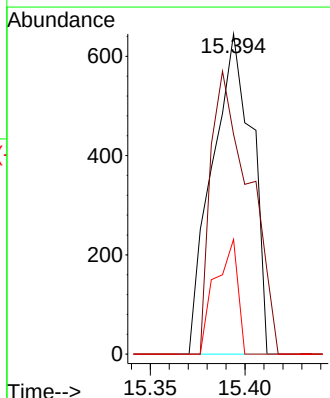
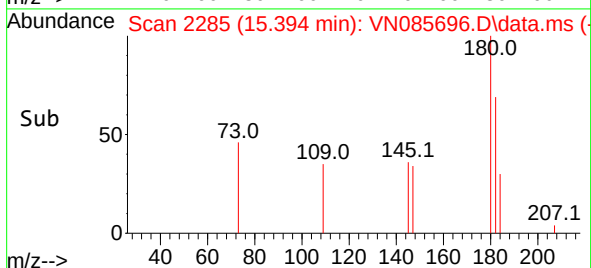
Tgt Ion: 91 Resp: 1771
Ion Ratio Lower Upper
91 100
92 45.2 25.8 77.3
134 18.6 11.7 35.1

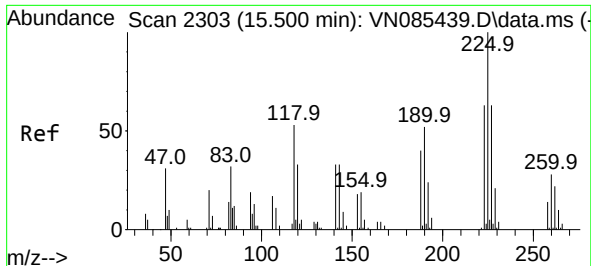


#93
1,2,4-Trichlorobenzene
Concen: 0.437 ug/l
RT: 15.394 min Scan# 2285
Delta R.T. 0.006 min
Lab File: VN085696.D
Acq: 07 Feb 2025 14:14



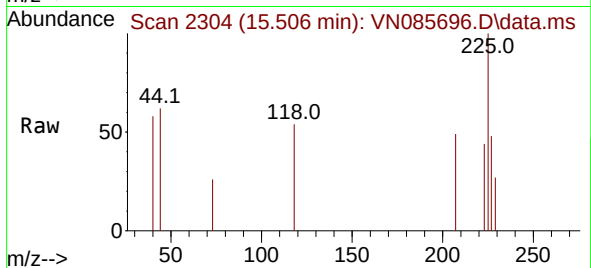
Tgt Ion: 180 Resp: 943
Ion Ratio Lower Upper
180 100
182 85.8 46.8 140.3
145 20.3 16.0 48.0



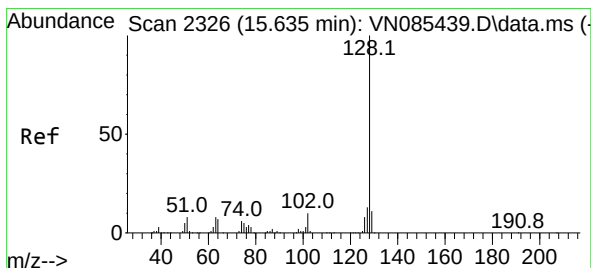
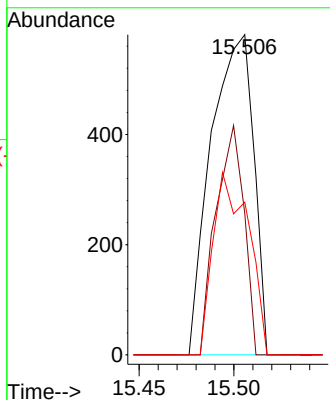
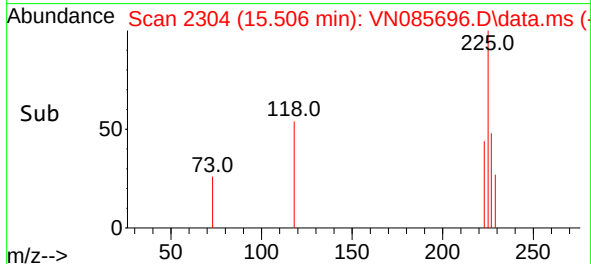


#94
Hexachlorobutadiene
Concen: 0.793 ug/l
RT: 15.506 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN085696.D
Acq: 07 Feb 2025 14:14

Instrument :
MSVOA_N
ClientSampleId :

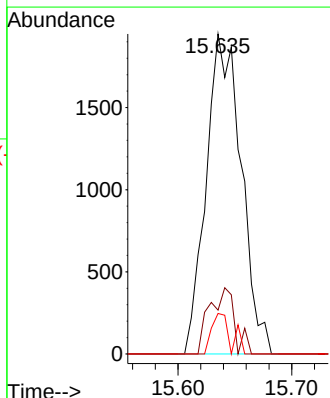
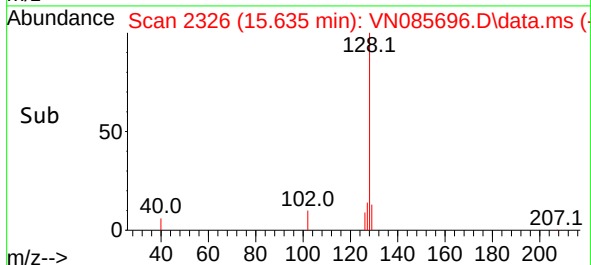
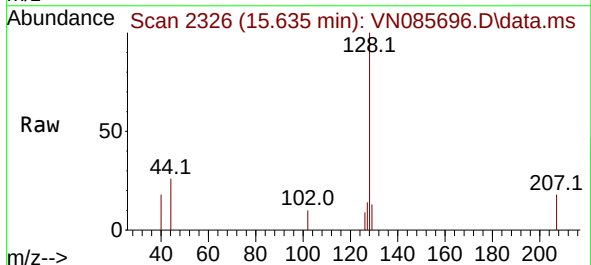


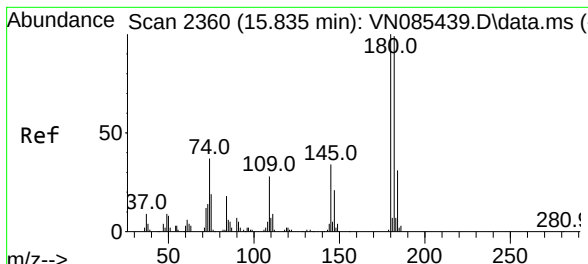
Tgt Ion:225 Resp: 908
Ion Ratio Lower Upper
225 100
223 47.1 30.7 92.1
227 47.4 30.9 92.5



#95
Naphthalene
Concen: 0.647 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. 0.000 min
Lab File: VN085696.D
Acq: 07 Feb 2025 14:14

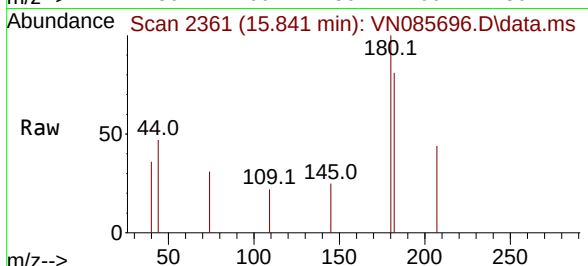
Tgt Ion:128 Resp: 4165
Ion Ratio Lower Upper
128 100
127 14.9 10.6 16.0
129 6.9 8.8 13.2#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.622 ug/l
 RT: 15.841 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN085696.D
 Acq: 07 Feb 2025 14:14

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	1357
Ion	Ratio	Lower	Upper
180	100		
182	87.8	47.4	142.2
145	18.6	16.9	50.7

