

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020325\
 Data File : VN085621.D
 Acq On : 03 Feb 2025 14:48
 Operator : JC\MD
 Sample : PB166424TB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

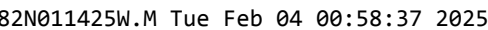
Quant Time: Feb 04 00:58:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

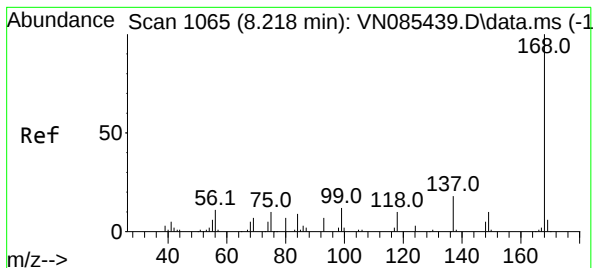
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.224	168	190437	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	373710	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	356509	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	125746	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	155634	50.628	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 101.260%	
35) Dibromofluoromethane	8.165	113	130102	50.181	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 100.360%	
50) Toluene-d8	10.565	98	501918	54.488	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 108.980%	
62) 4-Bromofluorobenzene	12.847	95	139243	44.189	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 88.380%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.971	94	913	0.539	ug/l	95
16) Acetone	4.430	43	26020	26.197	ug/l	99
18) Methyl Acetate	5.018	43	831	0.275	ug/l	95
20) Methylene Chloride	5.277	84	2540	1.033	ug/l #	72
25) 2-Butanone	7.488	43	2840	1.943	ug/l	96
29) Tetrahydrofuran	7.865	42	339	0.366	ug/l #	34
31) Cyclohexane	8.212	56	5143	1.318	ug/l #	36
36) 1,1-Dichloropropene	8.224	75	17638	4.847	ug/l #	51
37) Ethyl Acetate	7.571	43	3288	0.895	ug/l #	78
38) Carbon Tetrachloride	8.224	117	20728	4.976	ug/l #	19
43) Isopropyl Acetate	8.683	43	134455	22.847	ug/l #	90
45) 1,2-Dichloropropane	9.741	63	2131	0.763	ug/l #	43
48) Methyl methacrylate	9.741	41	132130	49.891	ug/l #	45
49) 1,4-Dioxane	9.735	88	171	3.834	ug/l #	1
51) 4-Methyl-2-Pentanone	10.441	43	5192	1.520	ug/l	92
54) cis-1,3-Dichloropropene	10.353	75	49858	12.031	ug/l #	69
56) Ethyl methacrylate	10.982	69	2318	2.459	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	7529	1.727	ug/l #	43
59) 2-Hexanone	11.200	43	93797	39.035	ug/l #	55
74) N-amyl acetate	12.482	43	1504	0.394	ug/l #	51
76) 1,2,3-Trichloropropane	12.847	75	74104	28.994	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	74104	78.446	ug/l #	3
88) 1,4-Dichlorobenzene	13.806	146	964	0.228	ug/l #	1
89) n-Butylbenzene	14.053	91	1258	0.215	ug/l #	88
93) 1,2,4-Trichlorobenzene	15.400	180	942	0.498	ug/l #	83
94) Hexachlorobutadiene	15.494	225	538	0.535	ug/l	88
95) Naphthalene	15.635	128	4216	0.746	ug/l #	84
96) 1,2,3-Trichlorobenzene	15.835	180	1229	0.642	ug/l #	77

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

Quant Time: Feb 04 00:58:34 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

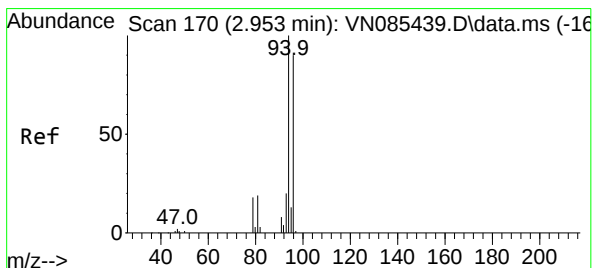
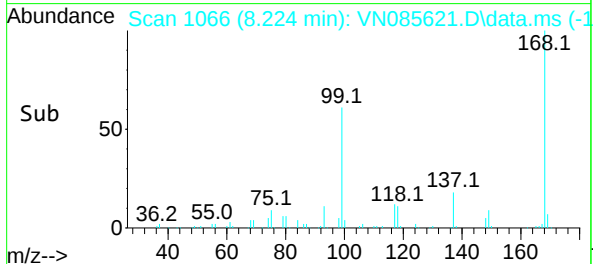
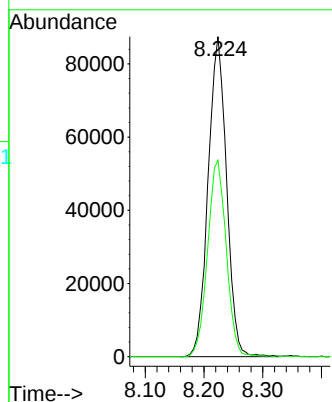
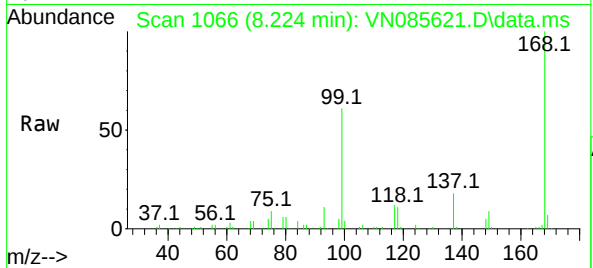




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085621.D
Acq: 03 Feb 2025 14:48

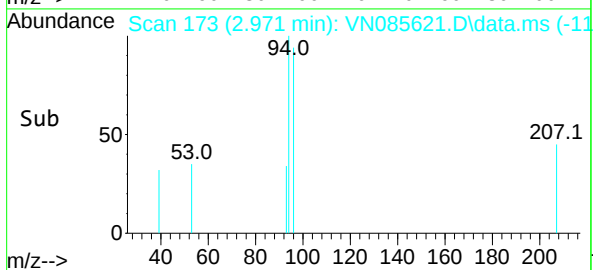
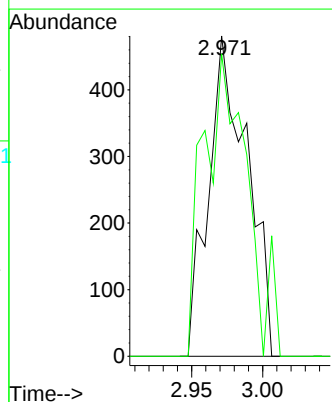
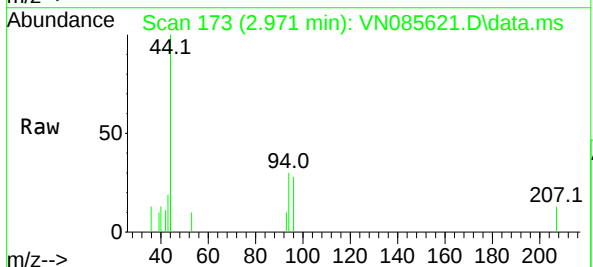
Instrument :
MSVOA_N
ClientSampleId :

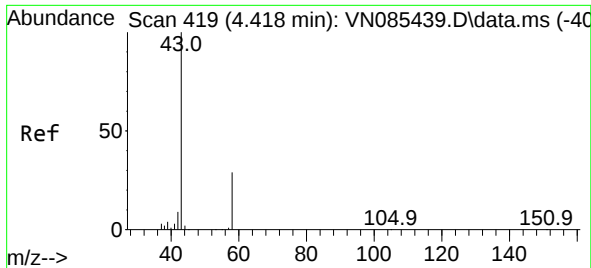
Tgt Ion:168 Resp: 190437
Ion Ratio Lower Upper
168 100
99 61.4 53.6 80.4



#5
Bromomethane
Concen: 0.539 ug/l
RT: 2.971 min Scan# 173
Delta R.T. 0.018 min
Lab File: VN085621.D
Acq: 03 Feb 2025 14:48

Tgt Ion: 94 Resp: 913
Ion Ratio Lower Upper
94 100
96 94.4 71.8 107.6

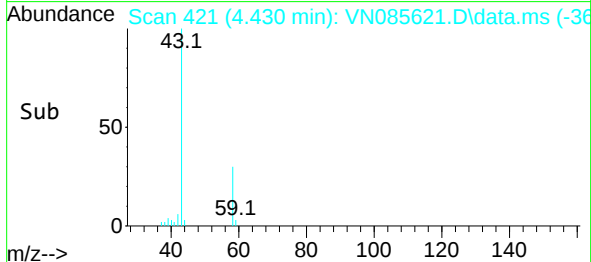
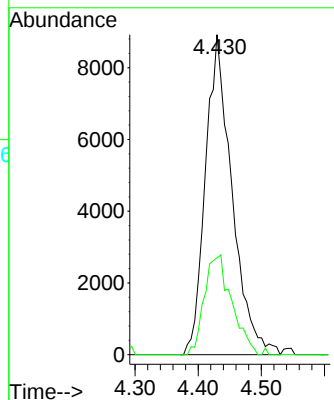
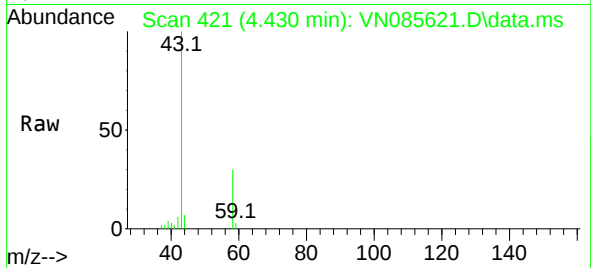




#16
Acetone
Concen: 26.197 ug/l
RT: 4.430 min Scan# 419
Delta R.T. 0.012 min
Lab File: VN085621.D
Acq: 03 Feb 2025 14:48

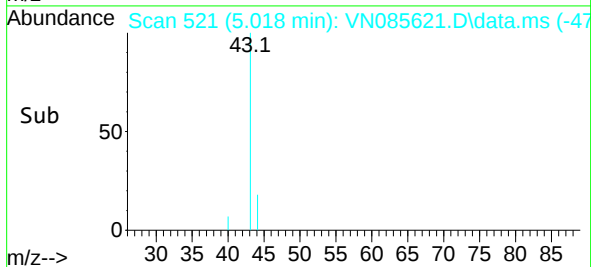
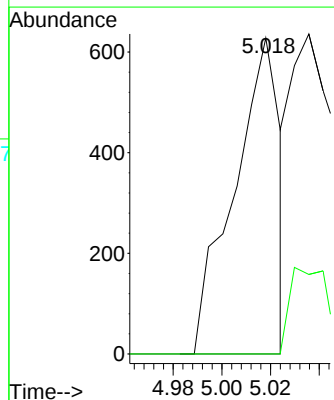
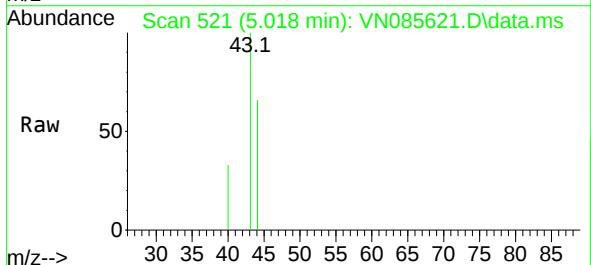
Instrument :
MSVOA_N
ClientSampleId :

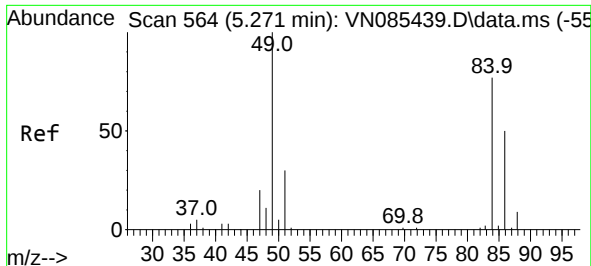
Tgt Ion: 43 Resp: 26020
Ion Ratio Lower Upper
43 100
58 30.3 23.8 35.6



#18
Methyl Acetate
Concen: 0.275 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085621.D
Acq: 03 Feb 2025 14:48

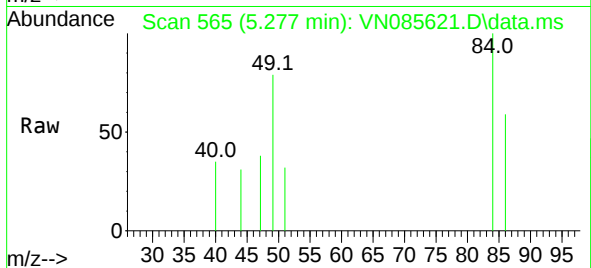
Tgt Ion: 43 Resp: 831
Ion Ratio Lower Upper
43 100
74 21.1 18.6 28.0



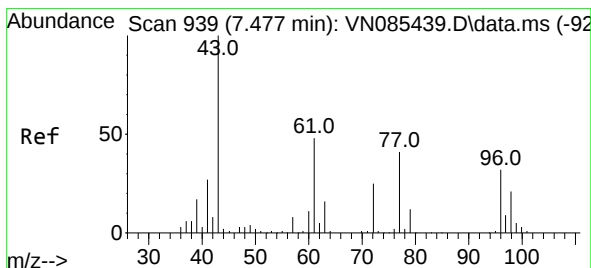
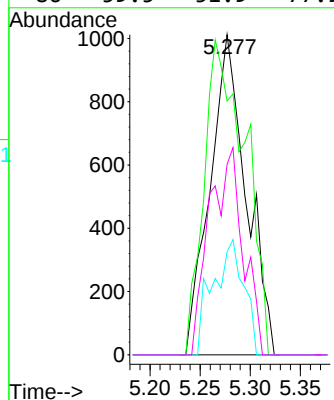


#20
Methylene Chloride
Concen: 1.033 ug/l
RT: 5.277 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN085621.D
Acq: 03 Feb 2025 14:48

Instrument :
MSVOA_N
ClientSampleId :

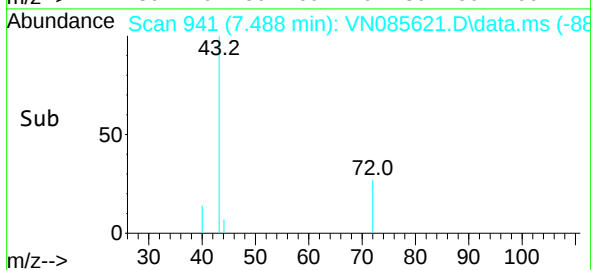
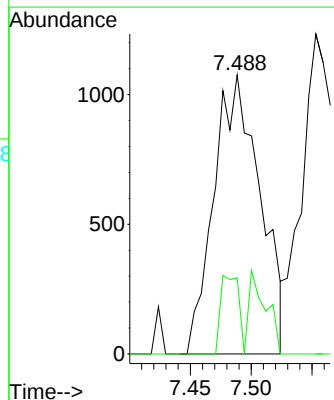
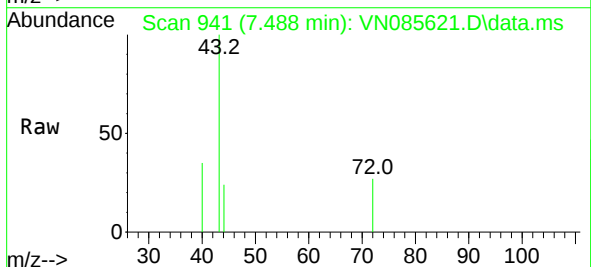


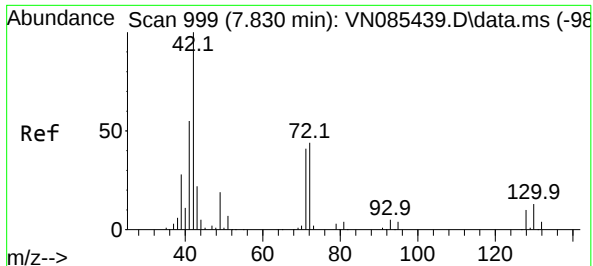
Tgt Ion: 84	Resp: 2540
Ion Ratio	Lower Upper
84 100	
49 79.2	104.1 156.1#
51 32.1	31.0 46.4
86 59.5	51.9 77.9



#25
2-Butanone
Concen: 1.943 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN085621.D
Acq: 03 Feb 2025 14:48

Tgt Ion: 43	Resp: 2840
Ion Ratio	Lower Upper
43 100	
72 27.3	20.2 30.4





#29

Tetrahydrofuran

Concen: 0.366 ug/l

RT: 7.865 min Scan# 1064

Delta R.T. 0.035 min

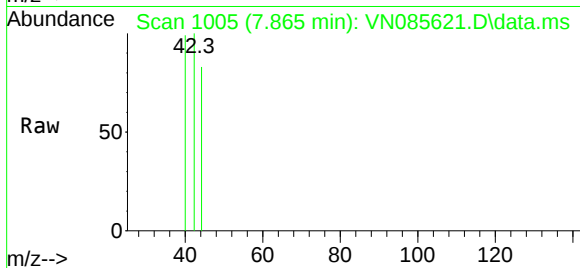
Lab File: VN085621.D

Acq: 03 Feb 2025 14:48

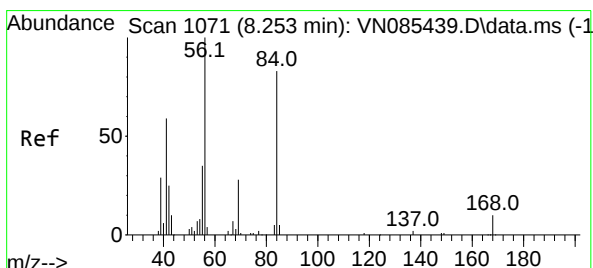
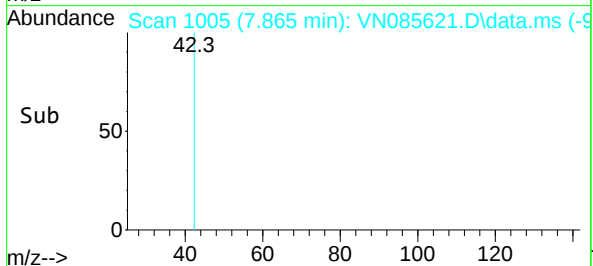
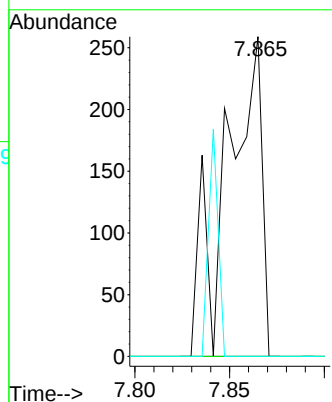
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 42	Resp: 339
Ion Ratio	Lower Upper
42	100
72	0.0 34.2 51.2#
71	0.0 32.5 48.7#



#31

Cyclohexane

Concen: 1.318 ug/l

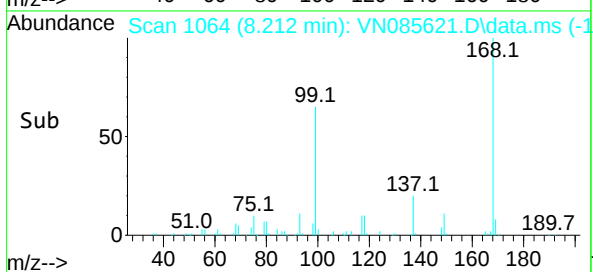
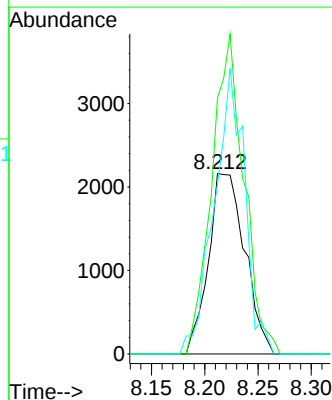
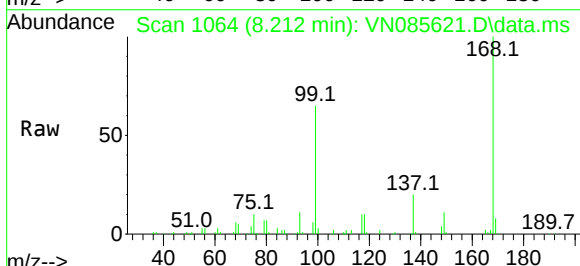
RT: 8.212 min Scan# 1064

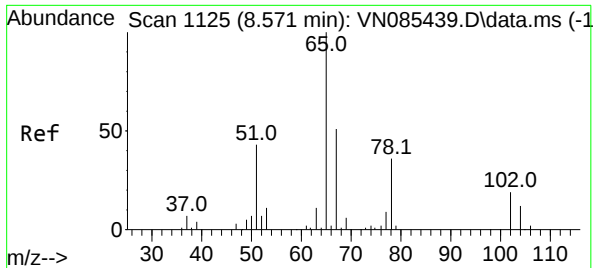
Delta R.T. -0.041 min

Lab File: VN085621.D

Acq: 03 Feb 2025 14:48

Tgt Ion: 56	Resp: 5143
Ion Ratio	Lower Upper
56	100
69	141.8 22.2 33.4#
84	94.0 66.4 99.6





#33

1,2-Dichloroethane-d4

Concen: 50.628 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085621.D

Acq: 03 Feb 2025 14:48

Instrument :

MSVOA_N

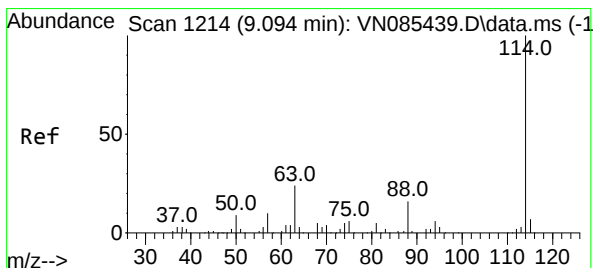
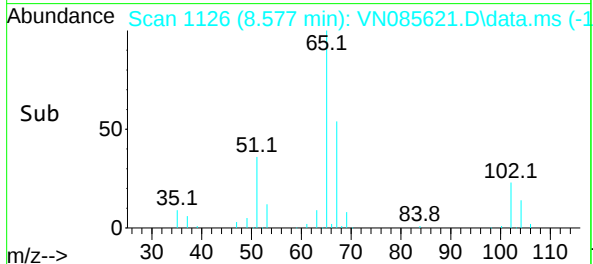
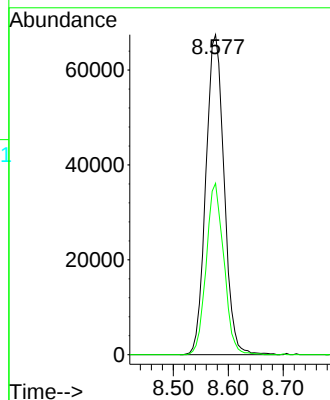
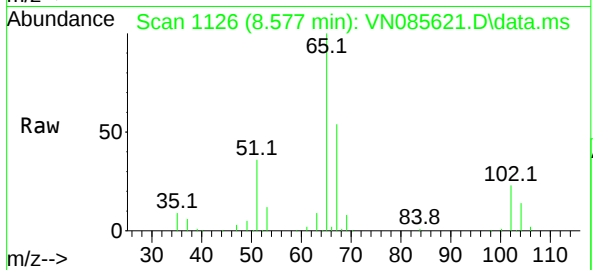
ClientSampleId :

Tgt Ion: 65 Resp: 155634

Ion Ratio Lower Upper

65 100

67 51.6 0.0 101.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085621.D

Acq: 03 Feb 2025 14:48

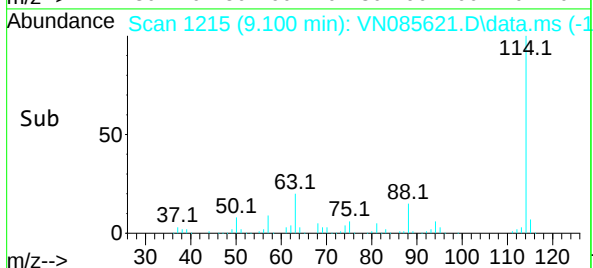
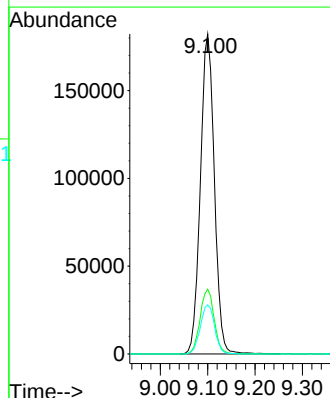
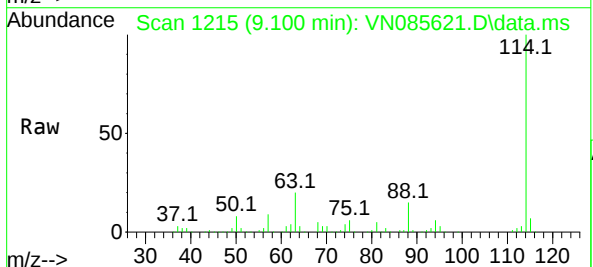
Tgt Ion: 114 Resp: 373710

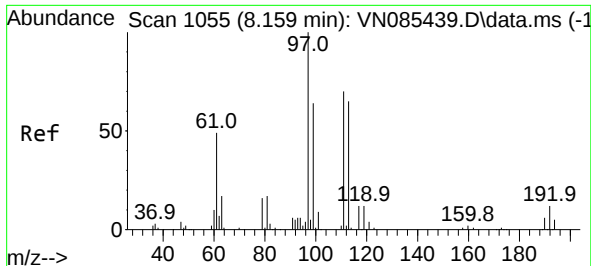
Ion Ratio Lower Upper

114 100

63 20.3 0.0 47.6

88 15.4 0.0 32.6





#35

Dibromofluoromethane

Concen: 50.181 ug/l

RT: 8.165 min Scan# 1

Delta R.T. 0.006 min

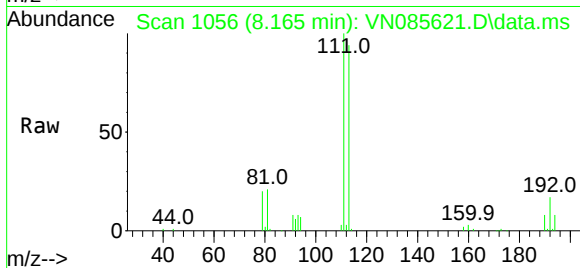
Lab File: VN085621.D

Acq: 03 Feb 2025 14:48

Instrument :

MSVOA_N

ClientSampleId :



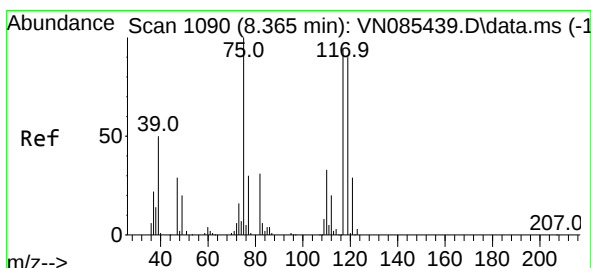
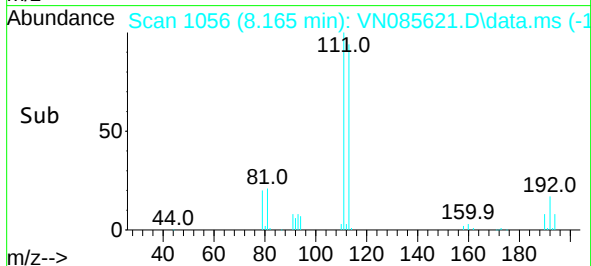
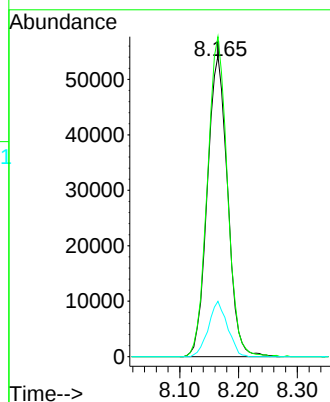
Tgt Ion:113 Resp: 130102

Ion Ratio Lower Upper

113 100

111 104.7 82.7 124.1

192 17.3 14.3 21.5



#36

1,1-Dichloropropene

Concen: 4.847 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN085621.D

Acq: 03 Feb 2025 14:48

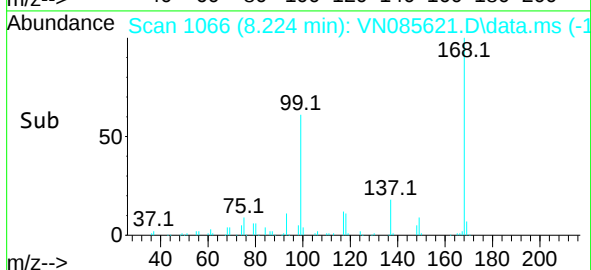
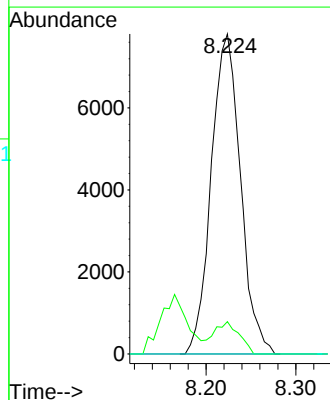
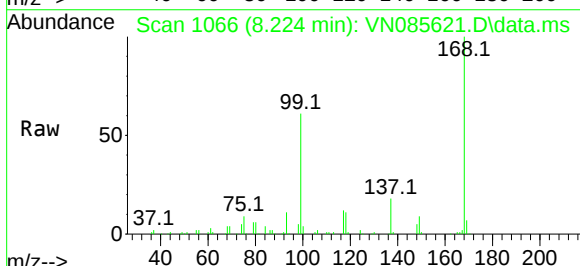
Tgt Ion: 75 Resp: 17638

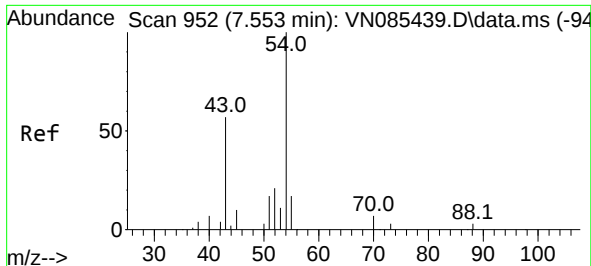
Ion Ratio Lower Upper

75 100

110 9.1 16.5 49.5#

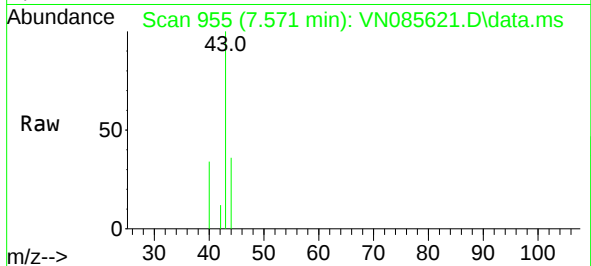
77 0.0 24.4 36.6#



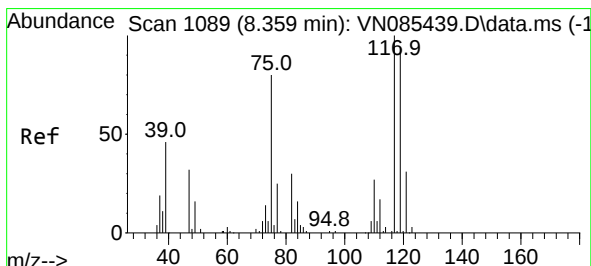
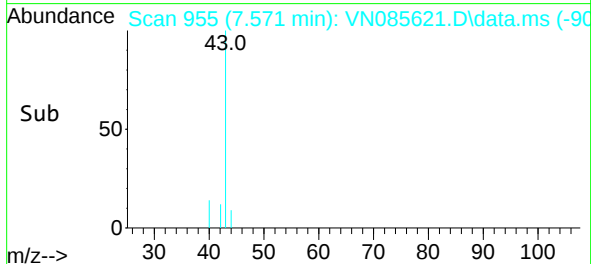
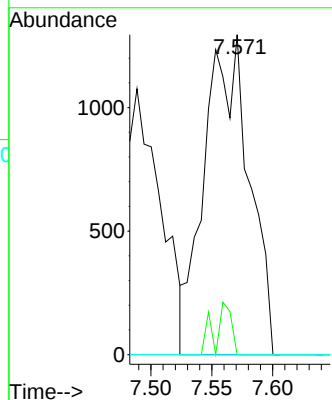


#37
Ethyl Acetate
Concen: 0.895 ug/l
RT: 7.571 min Scan# 91
Delta R.T. 0.018 min
Lab File: VN085621.D
Acq: 03 Feb 2025 14:48

Instrument :
MSVOA_N
ClientSampleId :

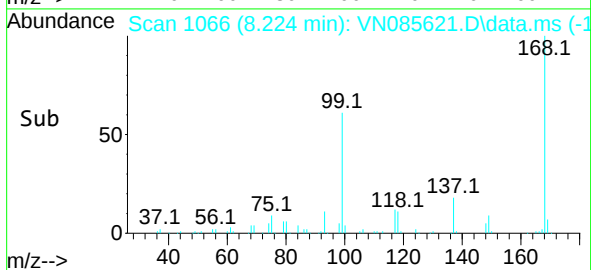
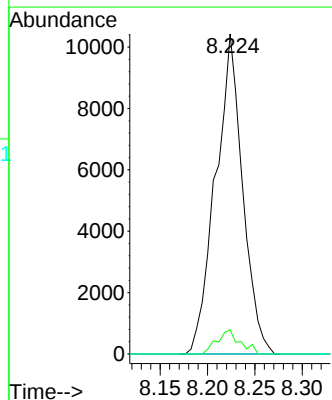
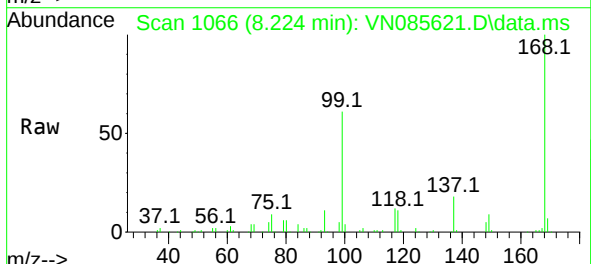


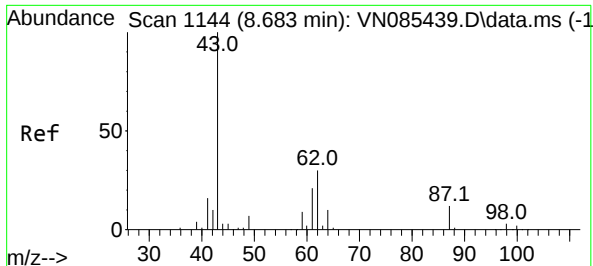
Tgt Ion: 43 Resp: 3288
Ion Ratio Lower Upper
43 100
61 6.0 10.9 16.3#
70 0.0 7.5 11.3#



#38
Carbon Tetrachloride
Concen: 4.976 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN085621.D
Acq: 03 Feb 2025 14:48

Tgt Ion: 117 Resp: 20728
Ion Ratio Lower Upper
117 100
119 7.6 75.4 113.2#
121 0.0 24.6 37.0#

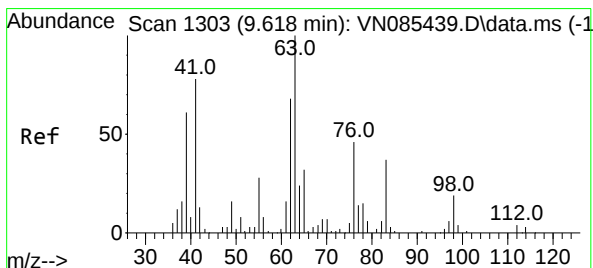
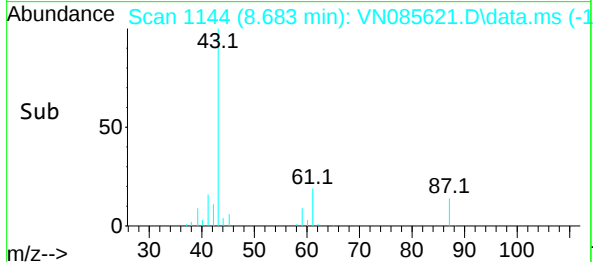
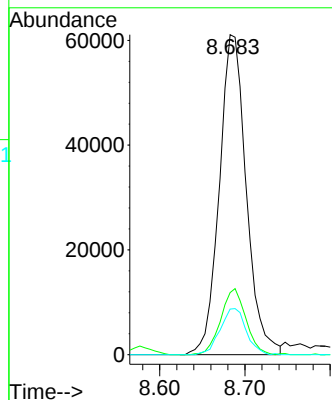
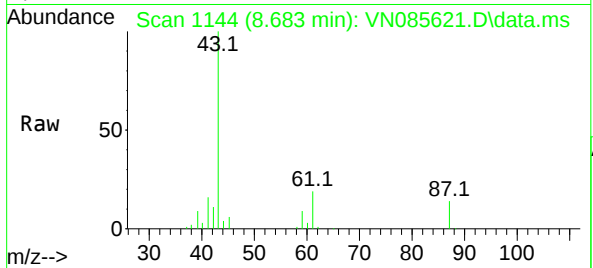




#43
Isopropyl Acetate
Concen: 22.847 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. 0.000 min
Lab File: VN085621.D
Acq: 03 Feb 2025 14:48

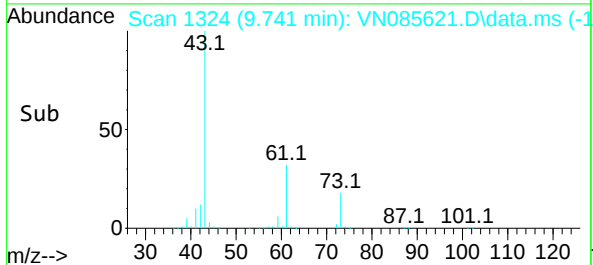
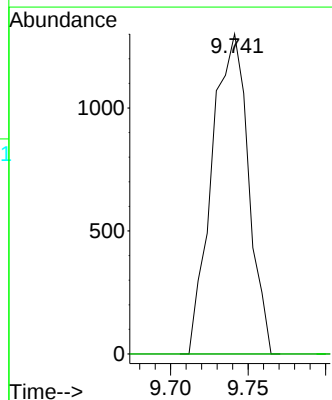
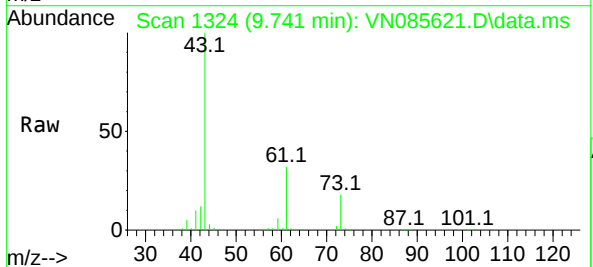
Instrument :
MSVOA_N
ClientSampleId :

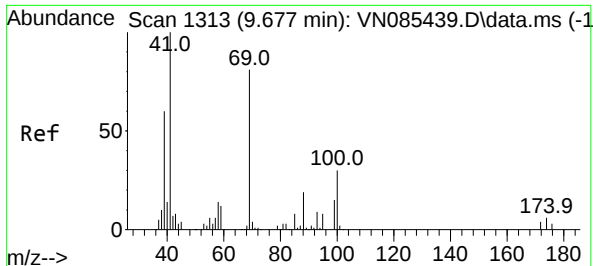
Tgt Ion: 43 Resp: 134455
Ion Ratio Lower Upper
43 100
61 19.2 20.7 31.1#
87 13.9 9.8 14.8



#45
1,2-Dichloropropane
Concen: 0.763 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.124 min
Lab File: VN085621.D
Acq: 03 Feb 2025 14:48

Tgt Ion: 63 Resp: 2131
Ion Ratio Lower Upper
63 100
65 0.0 25.6 38.4#





#48

Methyl methacrylate

Concen: 49.891 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.064 min

Lab File: VN085621.D

Acq: 03 Feb 2025 14:48

Instrument :

MSVOA_N

ClientSampleId :

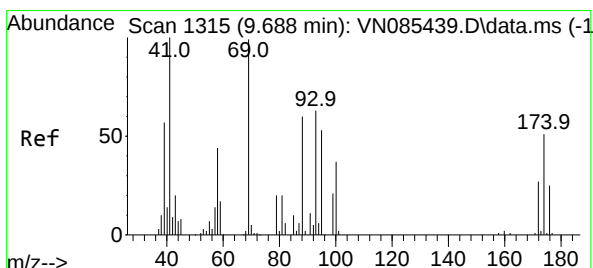
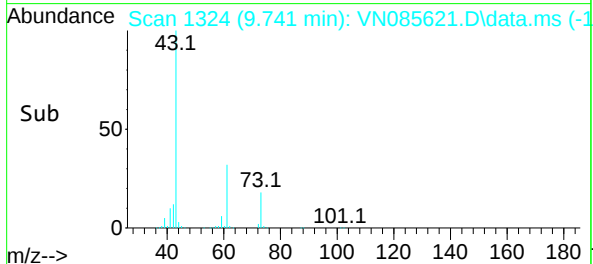
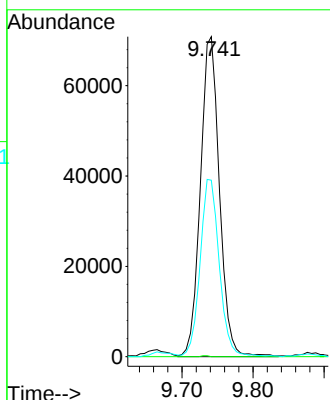
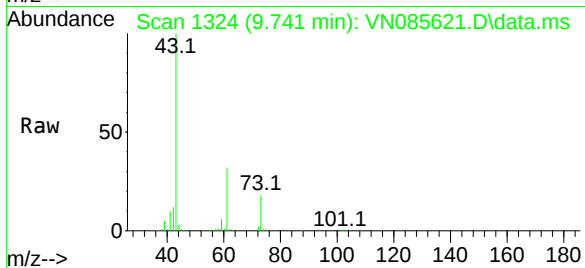
Tgt Ion: 41 Resp: 132130

Ion Ratio Lower Upper

41 100

69 0.1 64.7 97.1#

39 55.9 49.0 73.6



#49

1,4-Dioxane

Concen: 3.834 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.047 min

Lab File: VN085621.D

Acq: 03 Feb 2025 14:48

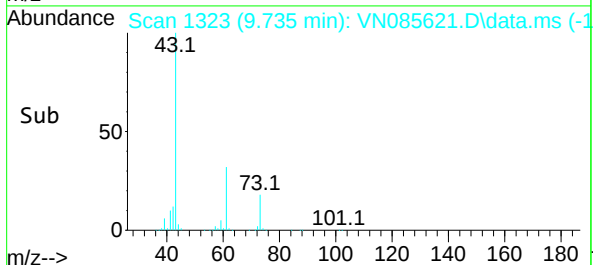
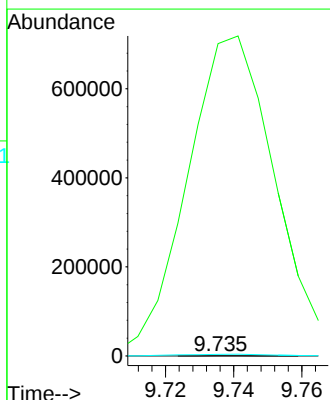
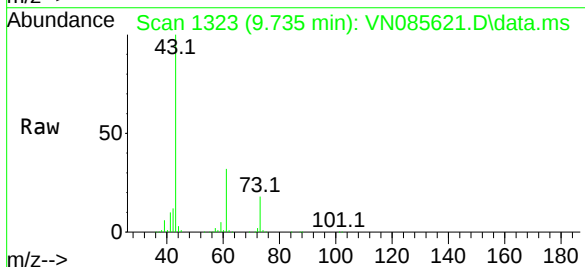
Tgt Ion: 88 Resp: 171

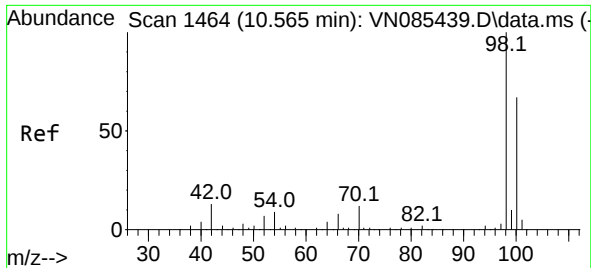
Ion Ratio Lower Upper

88 100

43 761391.2 26.6 39.8#

58 4476.6 59.5 89.3#

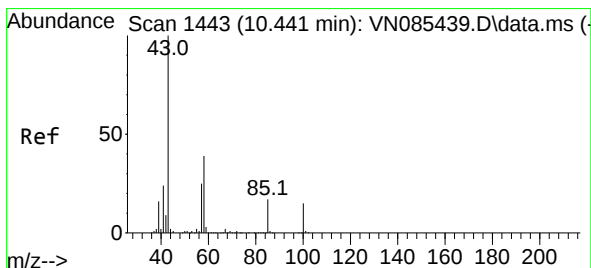
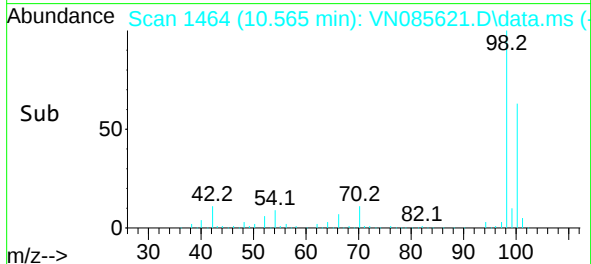
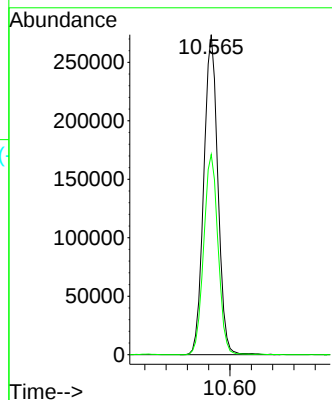
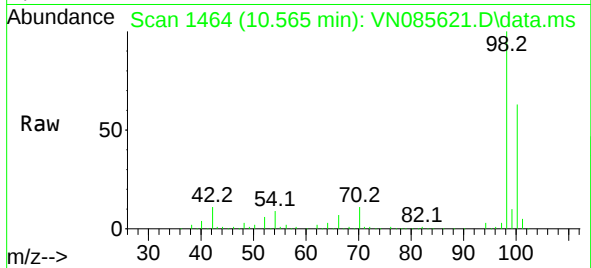




#50
Toluene-d8
Concen: 54.488 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085621.D
Acq: 03 Feb 2025 14:48

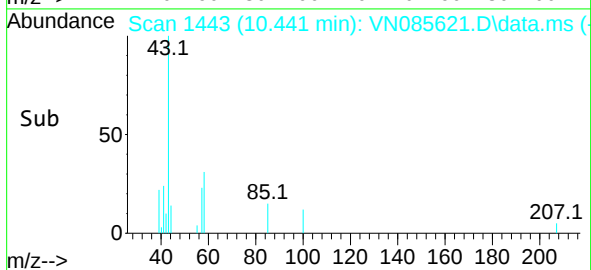
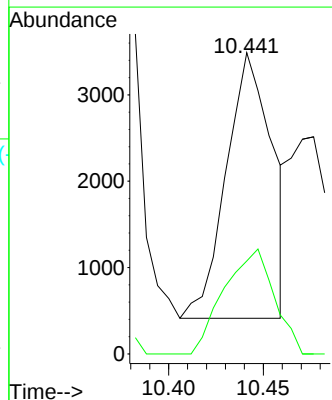
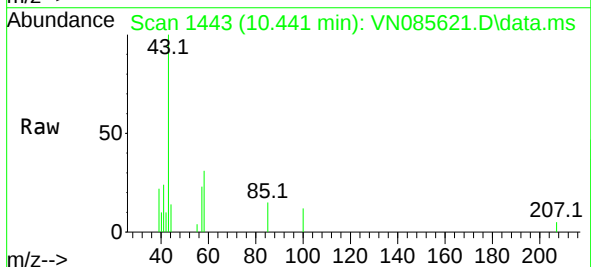
Instrument :
MSVOA_N
ClientSampleId :

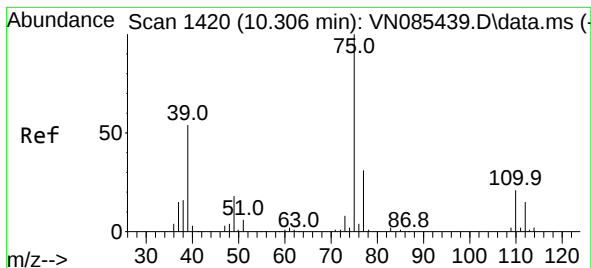
Tgt Ion: 98 Resp: 501918
Ion Ratio Lower Upper
98 100
100 63.8 52.2 78.4



#51
4-Methyl-2-Pentanone
Concen: 1.520 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085621.D
Acq: 03 Feb 2025 14:48

Tgt Ion: 43 Resp: 5192
Ion Ratio Lower Upper
43 100
58 43.1 30.5 45.7

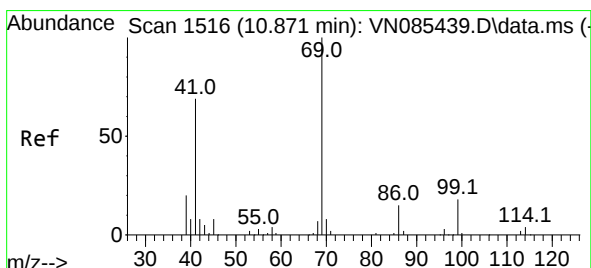
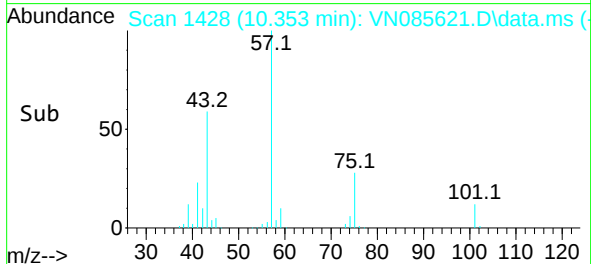
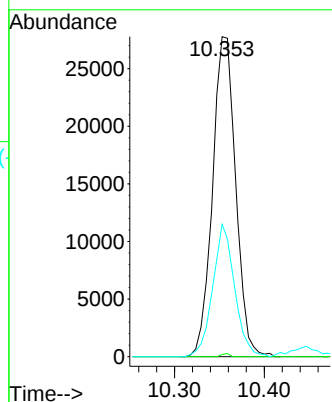
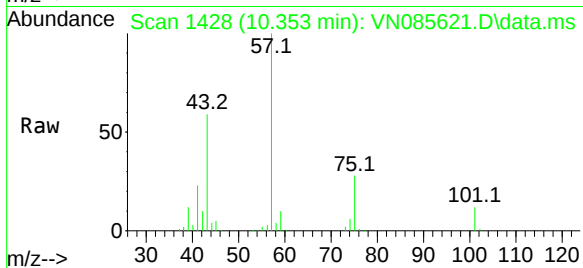




#54
 cis-1,3-Dichloropropene
 Concen: 12.031 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN085621.D
 Acq: 03 Feb 2025 14:48

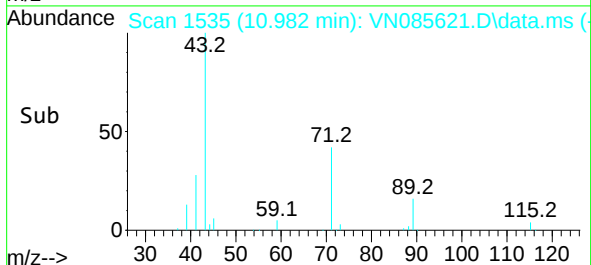
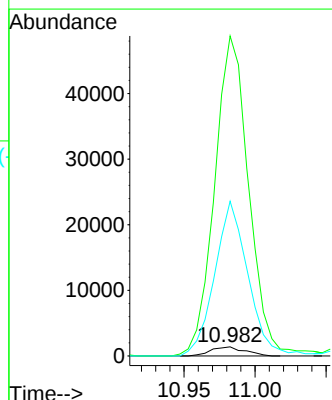
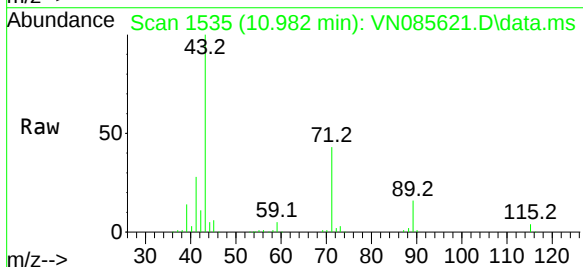
Instrument :
 MSVOA_N
 ClientSampleId :

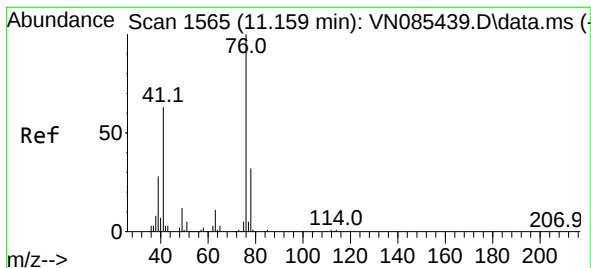
Tgt Ion: 75 Resp: 49858
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.0 37.4#
 39 41.4 43.1 64.7#



#56
 Ethyl methacrylate
 Concen: 2.459 ug/l
 RT: 10.982 min Scan# 1535
 Delta R.T. 0.111 min
 Lab File: VN085621.D
 Acq: 03 Feb 2025 14:48

Tgt Ion: 69 Resp: 2318
 Ion Ratio Lower Upper
 69 100
 41 3533.3 54.6 82.0#
 39 1664.9 32.4 48.6#

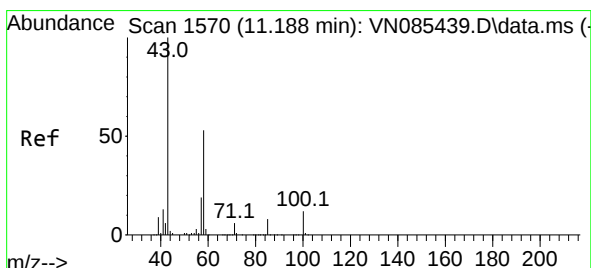
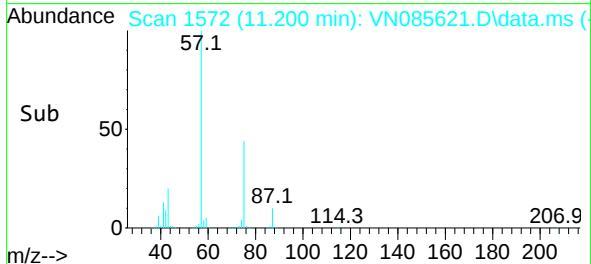
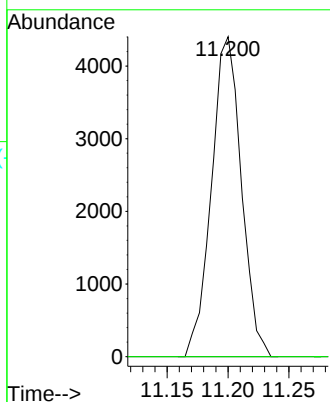
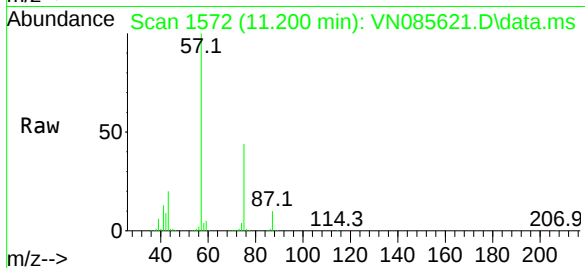




#57
1,3-Dichloropropane
Concen: 1.727 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN085621.D
Acq: 03 Feb 2025 14:48

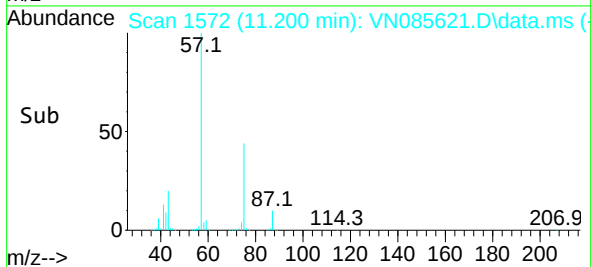
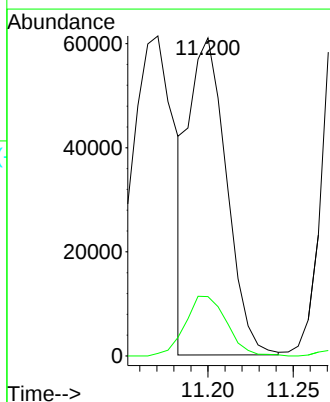
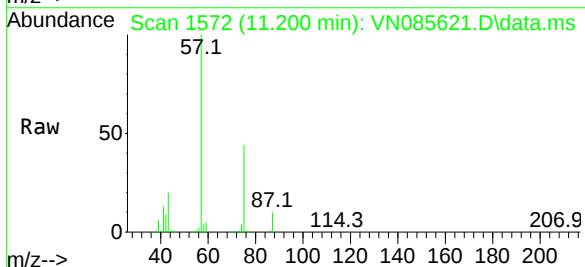
Instrument :
MSVOA_N
ClientSampleId :

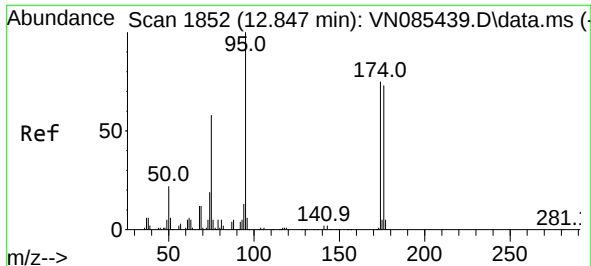
Tgt Ion: 76 Resp: 7529
Ion Ratio Lower Upper
76 100
78 0.0 25.6 38.4#



#59
2-Hexanone
Concen: 39.035 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.012 min
Lab File: VN085621.D
Acq: 03 Feb 2025 14:48

Tgt Ion: 43 Resp: 93797
Ion Ratio Lower Upper
43 100
58 20.7 26.2 78.6#

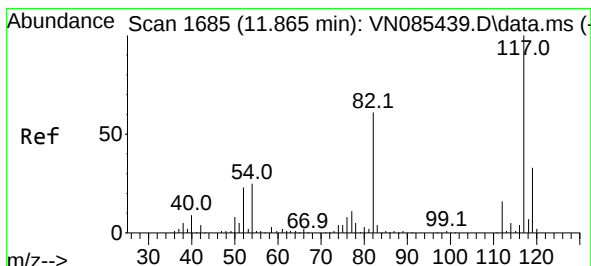
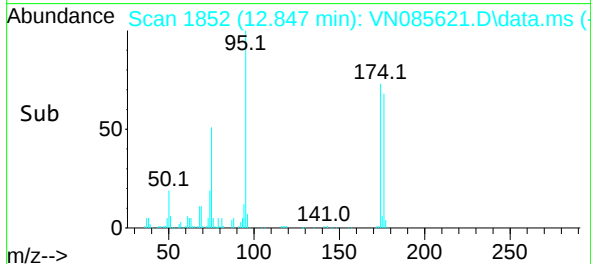
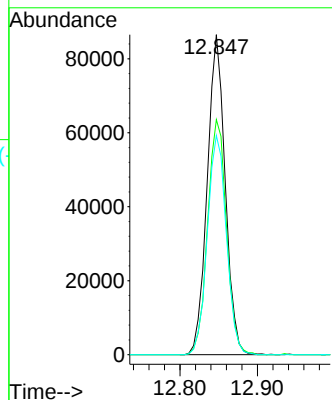
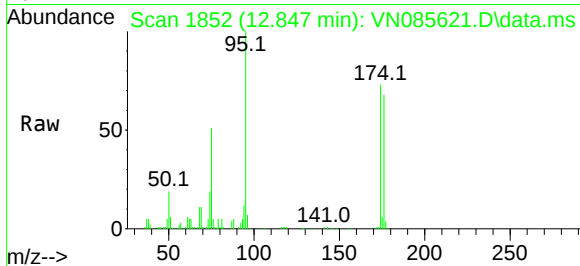




#62
4-Bromofluorobenzene
Concen: 44.189 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085621.D
Acq: 03 Feb 2025 14:48

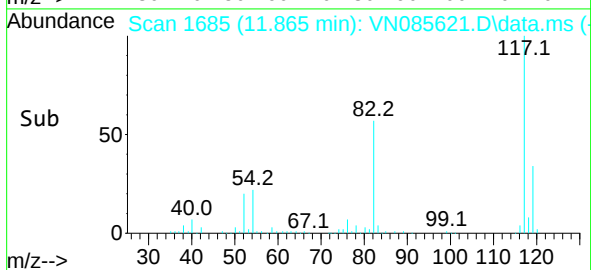
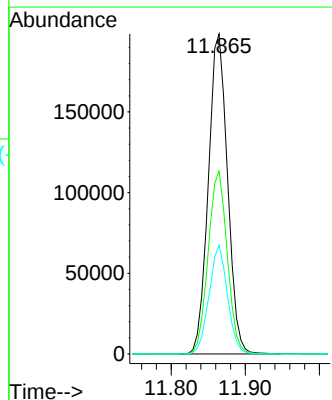
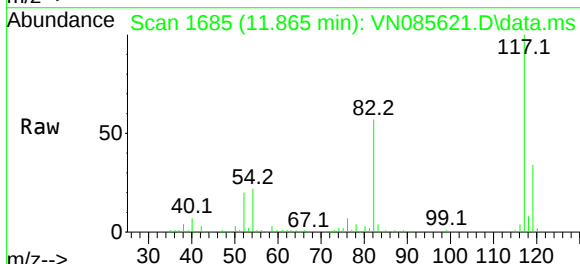
Instrument :
MSVOA_N
ClientSampleId :

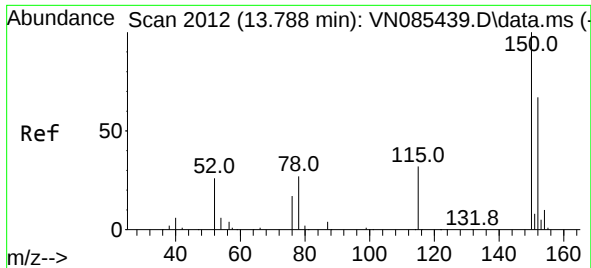
Tgt Ion: 95 Resp: 139243
Ion Ratio Lower Upper
95 100
174 77.2 0.0 145.0
176 72.3 0.0 142.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN085621.D
Acq: 03 Feb 2025 14:48

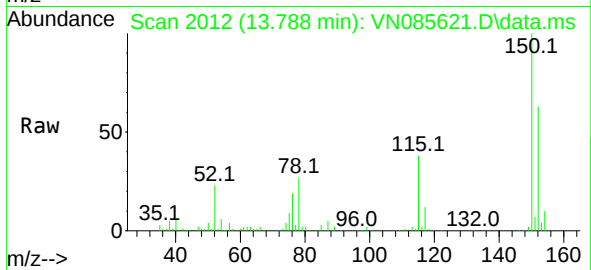
Tgt Ion: 117 Resp: 356509
Ion Ratio Lower Upper
117 100
82 57.1 48.6 72.8
119 34.0 26.6 39.8



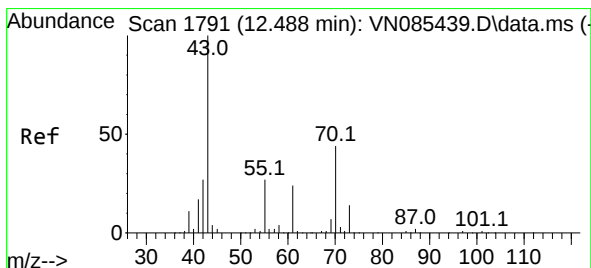
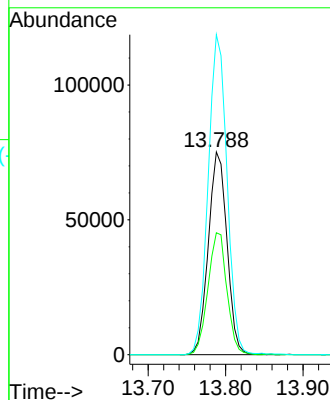
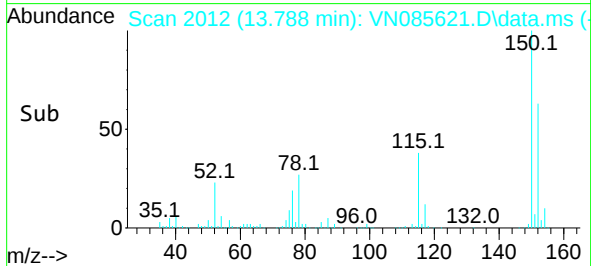


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: VN085621.D
 Acq: 03 Feb 2025 14:48

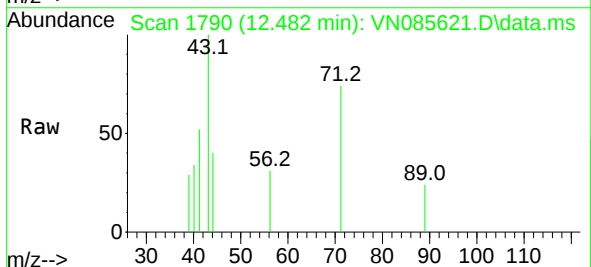
Instrument :
 MSVOA_N
 ClientSampleId :



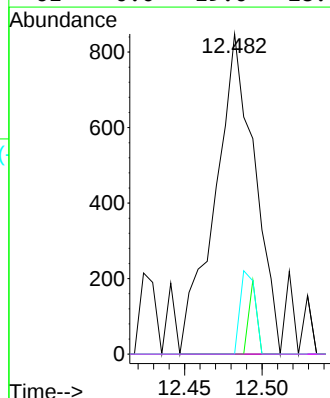
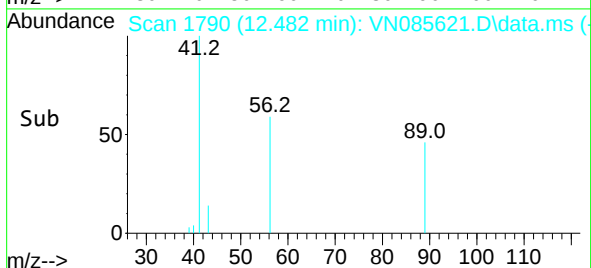
Tgt Ion:152 Resp: 125746
 Ion Ratio Lower Upper
 152 100
 115 61.0 31.1 93.3
 150 159.7 0.0 343.6

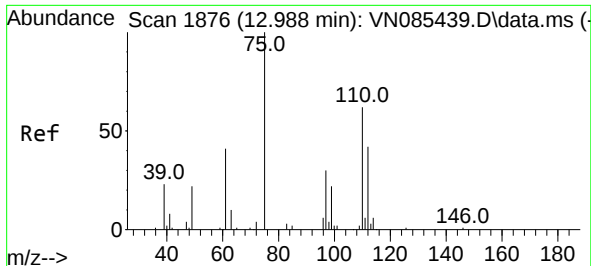


#74
 N-ethyl acetate
 Concen: 0.394 ug/l
 RT: 12.482 min Scan# 1790
 Delta R.T. -0.006 min
 Lab File: VN085621.D
 Acq: 03 Feb 2025 14:48



Tgt Ion: 43 Resp: 1504
 Ion Ratio Lower Upper
 43 100
 70 4.6 34.0 51.0#
 55 9.7 21.4 32.2#
 61 0.0 19.0 28.4#

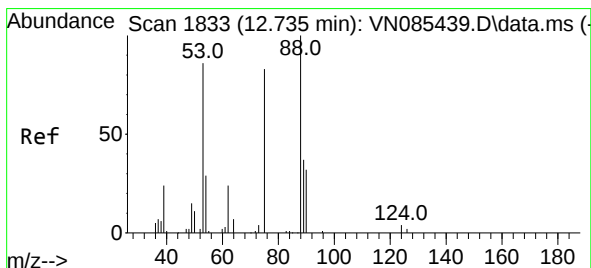
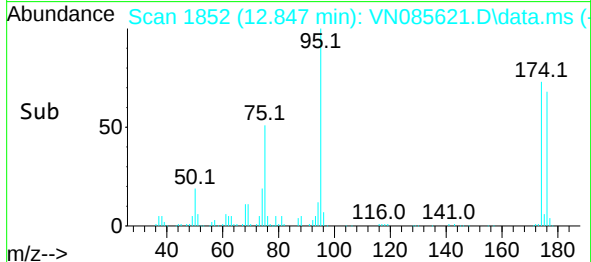
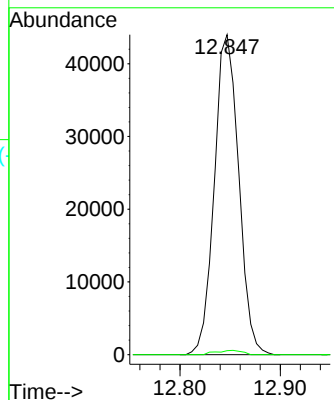
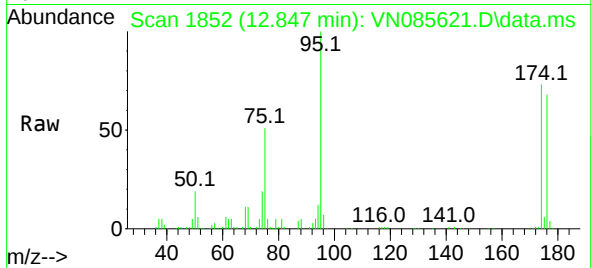




#76
1,2,3-Trichloropropane
Concen: 28.994 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN085621.D
Acq: 03 Feb 2025 14:48

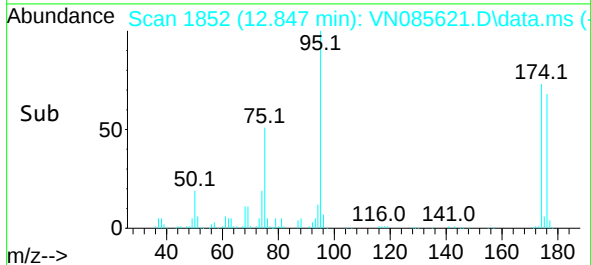
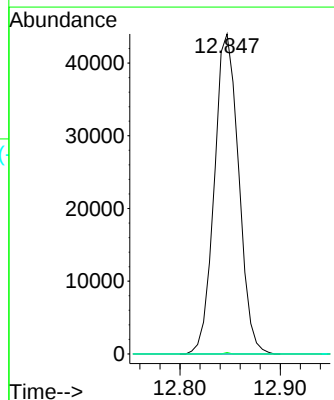
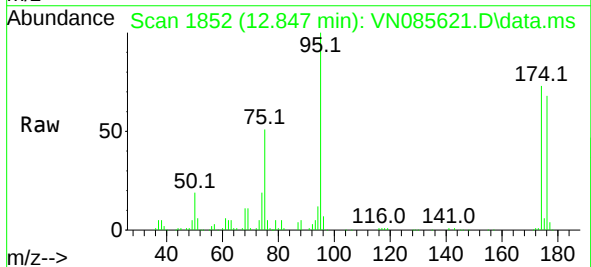
Instrument :
MSVOA_N
ClientSampleId :

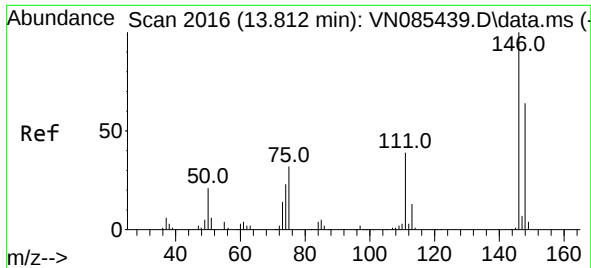
Tgt Ion: 75 Resp: 74104
Ion Ratio Lower Upper
75 100
77 1.4 109.7 329.2#



#81
trans-1,4-Dichloro-2-butene
Concen: 78.446 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN085621.D
Acq: 03 Feb 2025 14:48

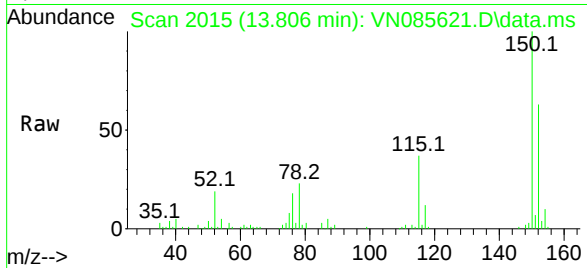
Tgt Ion: 75 Resp: 74104
Ion Ratio Lower Upper
75 100
53 0.1 95.6 143.4#
89 0.0 37.0 55.6#



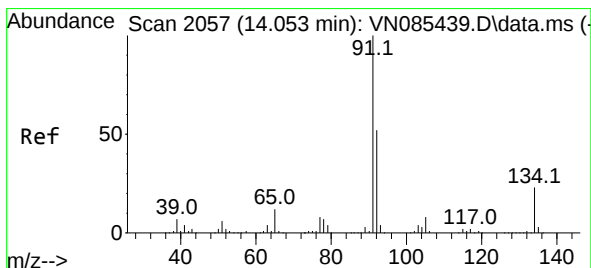
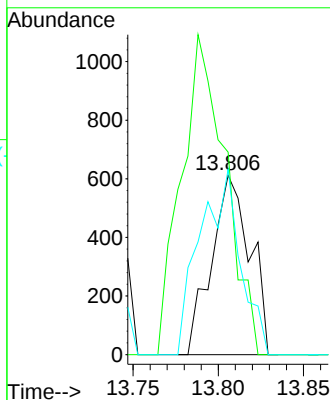
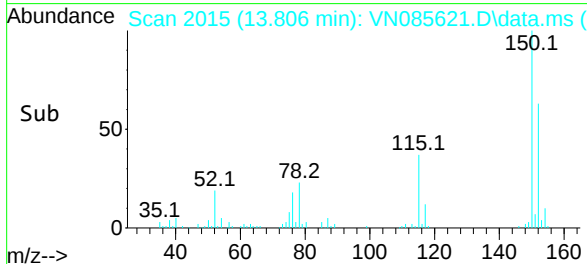


#88
1,4-Dichlorobenzene
Concen: 0.228 ug/l
RT: 13.806 min Scan# 2016
Delta R.T. -0.006 min
Lab File: VN085621.D
Acq: 03 Feb 2025 14:48

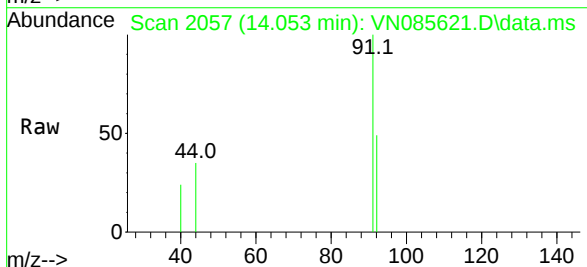
Instrument :
MSVOA_N
ClientSampleId :



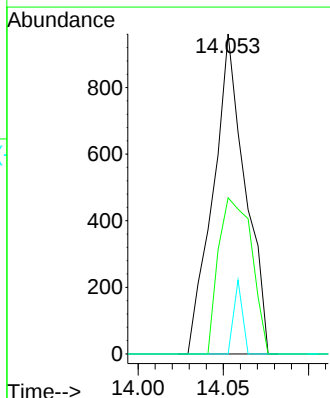
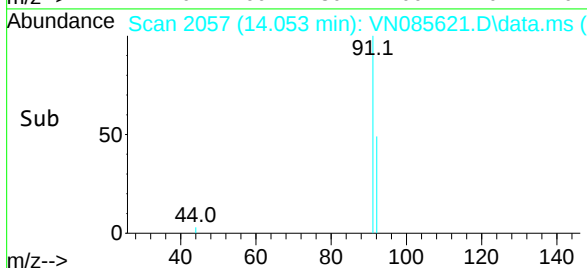
Tgt Ion:146 Resp: 964
Ion Ratio Lower Upper
146 100
111 204.3 21.3 63.7#
148 108.0 32.4 97.0#

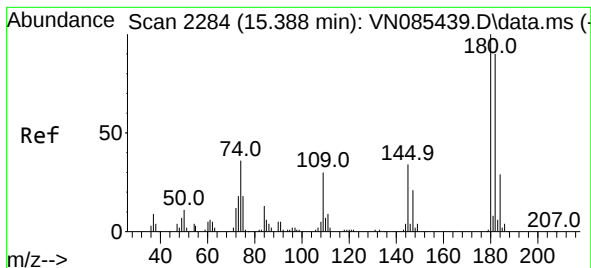


#89
n-Butylbenzene
Concen: 0.215 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN085621.D
Acq: 03 Feb 2025 14:48



Tgt Ion: 91 Resp: 1258
Ion Ratio Lower Upper
91 100
92 50.3 25.8 77.3
134 6.2 11.7 35.1#





#93

1,2,4-Trichlorobenzene

Concen: 0.498 ug/l

RT: 15.400 min Scan# 21

Delta R.T. 0.012 min

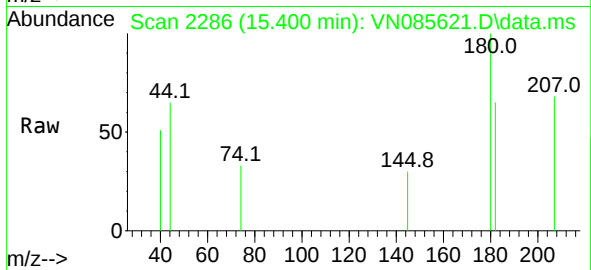
Lab File: VN085621.D

Acq: 03 Feb 2025 14:48

Instrument :

MSVOA_N

ClientSampleId :



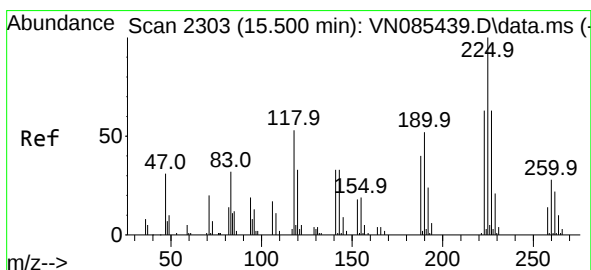
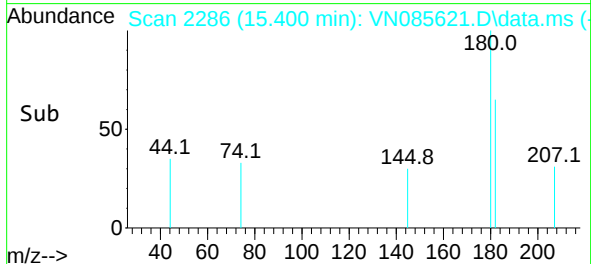
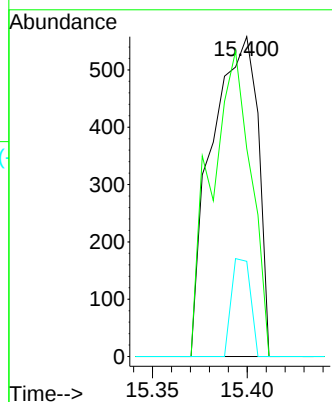
Tgt Ion:180 Resp: 942

Ion Ratio Lower Upper

180 100

182 82.8 46.8 140.3

145 12.6 16.0 48.0#



#94

Hexachlorobutadiene

Concen: 0.535 ug/l

RT: 15.494 min Scan# 2302

Delta R.T. -0.006 min

Lab File: VN085621.D

Acq: 03 Feb 2025 14:48

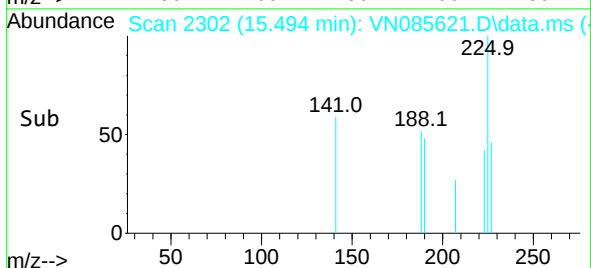
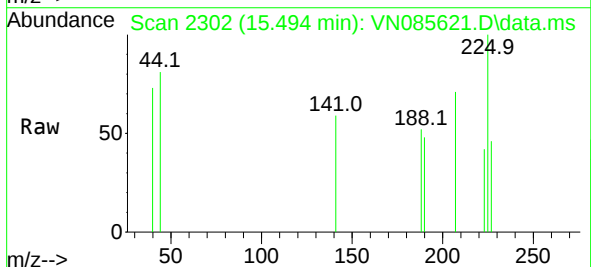
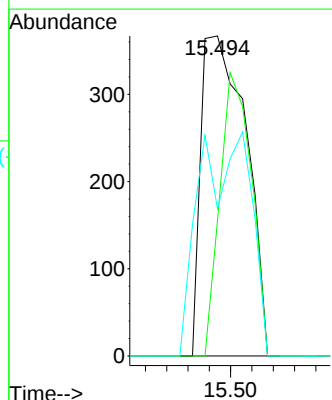
Tgt Ion:225 Resp: 538

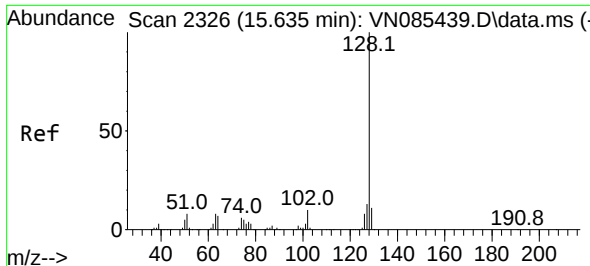
Ion Ratio Lower Upper

225 100

223 61.9 30.7 92.1

227 79.7 30.9 92.5

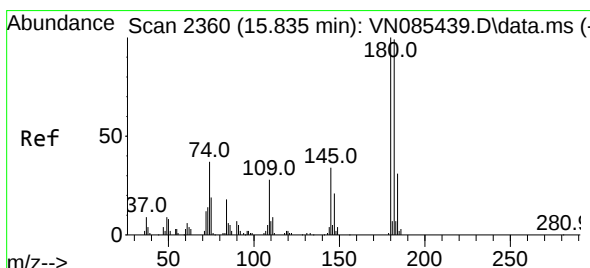
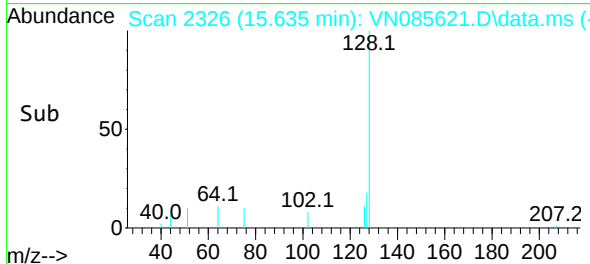
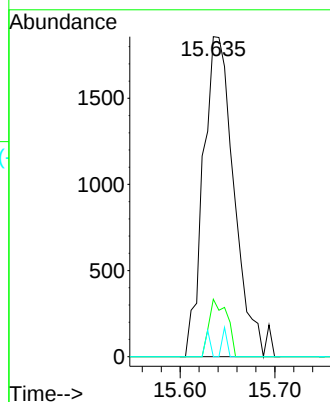
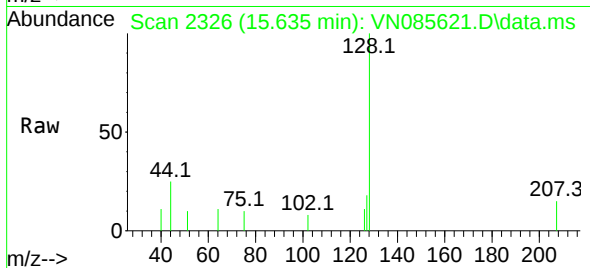




#95
Naphthalene
Concen: 0.746 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.000 min
Lab File: VN085621.D
Acq: 03 Feb 2025 14:48

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:128 Resp: 4216
Ion Ratio Lower Upper
128 100
127 10.4 10.6 16.0#
129 1.3 8.8 13.2#



#96
1,2,3-Trichlorobenzene
Concen: 0.642 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN085621.D
Acq: 03 Feb 2025 14:48

Tgt Ion:180 Resp: 1229
Ion Ratio Lower Upper
180 100
182 76.2 47.4 142.2
145 13.5 16.9 50.7#

