

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031425\
 Data File : VN085991.D
 Acq On : 14 Mar 2025 15:57
 Operator : JC\MD
 Sample : Q1575-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW7

Quant Time: Mar 15 00:04:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	143229	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	256406	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	239550	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	100914	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	97280	52.388	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.780%			
35) Dibromofluoromethane	8.165	113	81746	48.722	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.440%			
50) Toluene-d8	10.565	98	287315	47.067	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 94.140%			
62) 4-Bromofluorobenzene	12.847	95	106931	53.167	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 106.340%			
Target Compounds						
					Qvalue	
4) Vinyl Chloride	2.512	62	461	0.223	ug/l #	42
5) Bromomethane	2.983	94	362	0.274	ug/l	86
11) Tert butyl alcohol	5.512	59	701	3.069	ug/l #	72
17) Carbon Disulfide	4.718	76	1137	0.244	ug/l #	75
19) Methyl tert-butyl Ether	5.795	73	1074	0.230	ug/l #	54
27) cis-1,2-Dichloroethene	7.483	96	2002	1.021	ug/l	84
31) Cyclohexane	8.218	56	3561	1.343	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	11467	4.829	ug/l #	49
38) Carbon Tetrachloride	8.218	117	15450	5.476	ug/l #	20
40) Benzene	8.606	78	1670	0.219	ug/l	96
43) Isopropyl Acetate	8.706	43	1650	Below Cal	#	53
51) 4-Methyl-2-Pentanone	10.447	43	381	0.202	ug/l #	33
56) Ethyl methacrylate	10.865	69	64	0.488	ug/l #	30
59) 2-Hexanone	11.194	43	1339	1.033	ug/l #	50
67) Ethyl Benzene	11.965	91	5439	0.633	ug/l	94
68) m/p-Xylenes	12.071	106	1125	0.345	ug/l	82
70) Styrene	12.406	104	272	0.636	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	53934	24.060	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	53934	70.201	ug/l #	13
86) p-Isopropyltoluene	13.723	119	830	0.770	ug/l #	73
89) n-Butylbenzene	14.053	91	1543	0.325	ug/l	75
91) 1,2-Dichlorobenzene	14.106	146	717	0.213	ug/l #	73
93) 1,2,4-Trichlorobenzene	15.394	180	957	0.597	ug/l #	83
94) Hexachlorobutadiene	15.500	225	541	0.555	ug/l	83
95) Naphthalene	15.641	128	3934	0.894	ug/l #	87
96) 1,2,3-Trichlorobenzene	15.841	180	1141	0.709	ug/l	85

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

Quant Time: Mar 15 00:04:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

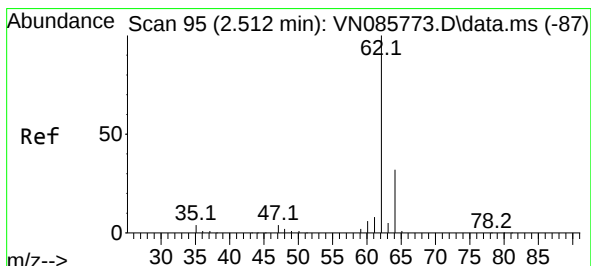
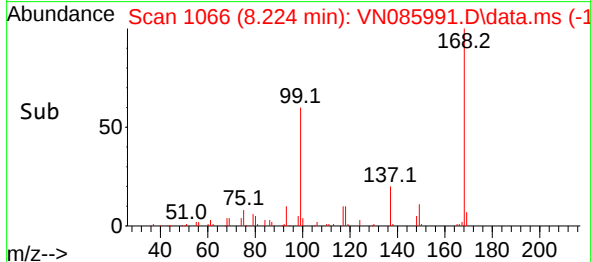
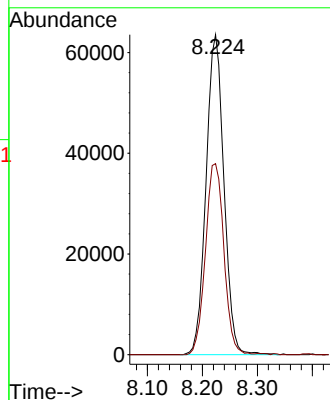
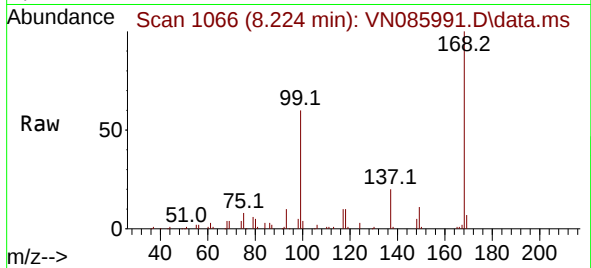




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085991.D
Acq: 14 Mar 2025 15:57

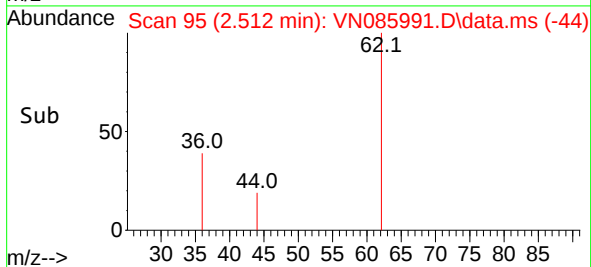
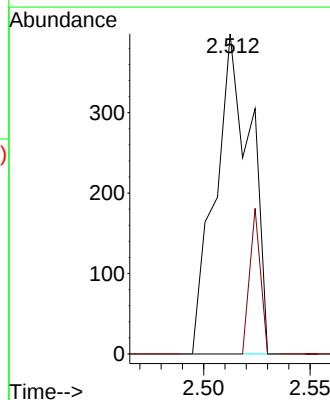
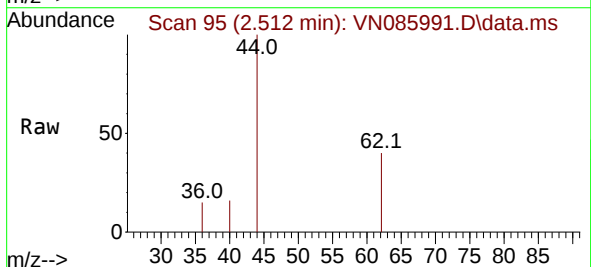
Instrument :
MSVOA_N
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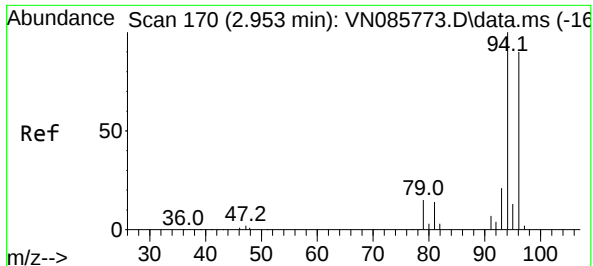
Tgt Ion:168 Resp: 143229
Ion Ratio Lower Upper
168 100
99 59.7 47.9 71.9



#4
Vinyl Chloride
Concen: 0.223 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085991.D
Acq: 14 Mar 2025 15:57

Tgt Ion: 62 Resp: 461
Ion Ratio Lower Upper
62 100
64 0.0 25.9 38.9#

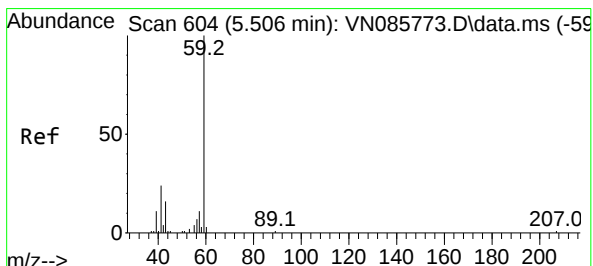
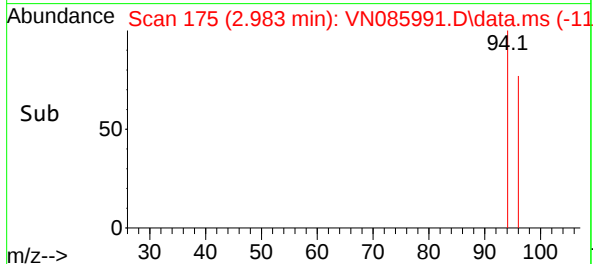
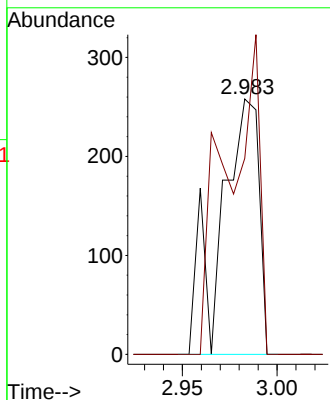
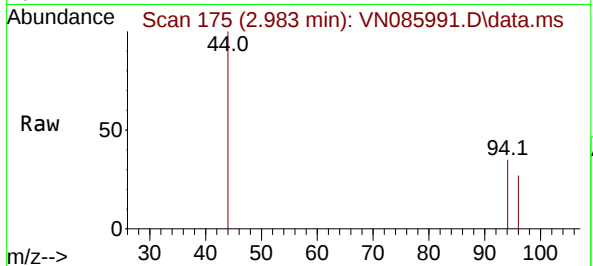




#5
Bromomethane
Concen: 0.274 ug/l
RT: 2.983 min Scan# 11
Delta R.T. 0.029 min
Lab File: VN085991.D
Acq: 14 Mar 2025 15:57

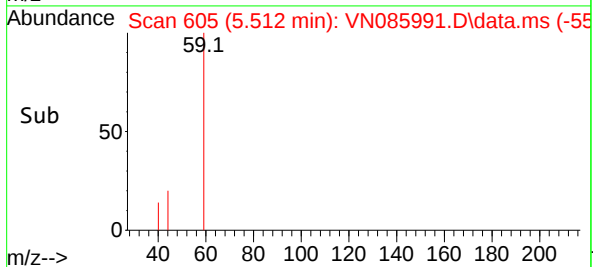
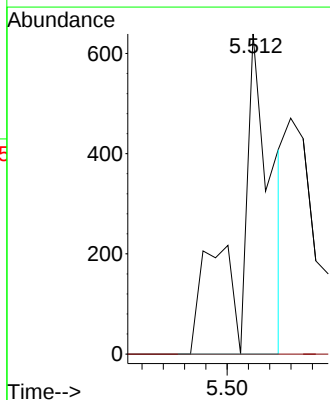
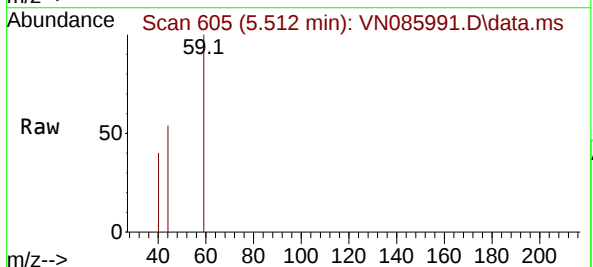
Instrument :
MSVOA_N
ClientSampleId :
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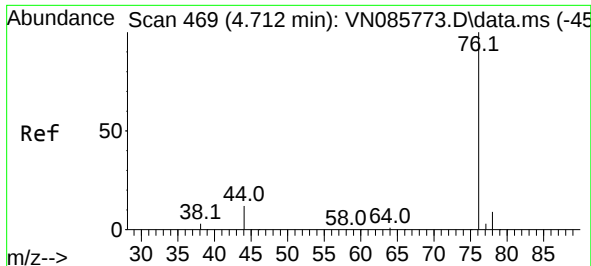
Tgt Ion: 94 Resp: 362
Ion Ratio Lower Upper
94 100
96 76.7 71.7 107.5



#11
Tert butyl alcohol
Concen: 3.069 ug/l
RT: 5.512 min Scan# 605
Delta R.T. 0.006 min
Lab File: VN085991.D
Acq: 14 Mar 2025 15:57

Tgt Ion: 59 Resp: 701
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

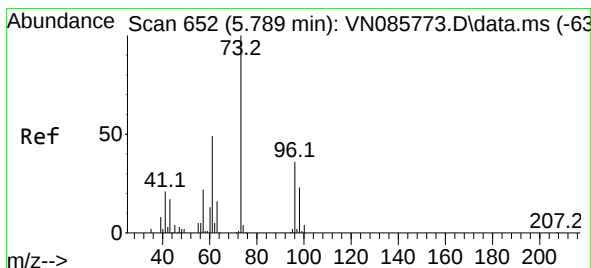
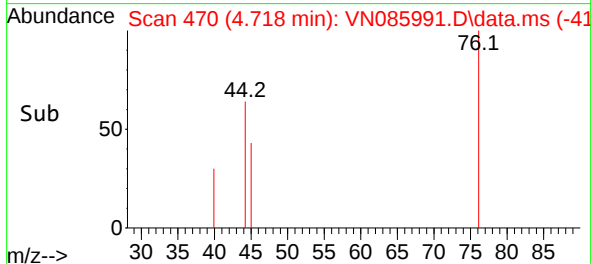
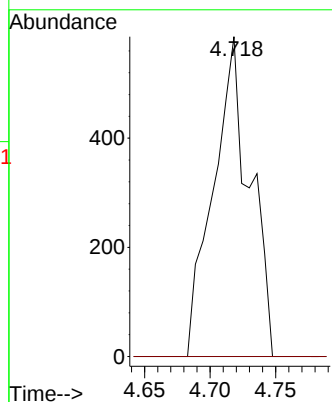
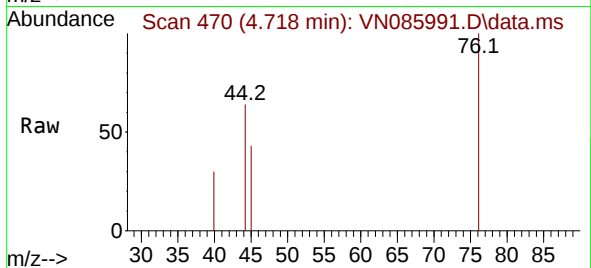




#17
Carbon Disulfide
Concen: 0.244 ug/l
RT: 4.718 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN085991.D
Acq: 14 Mar 2025 15:57

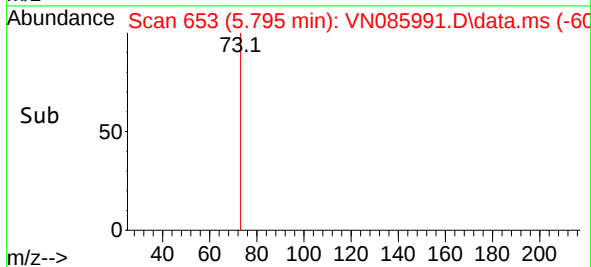
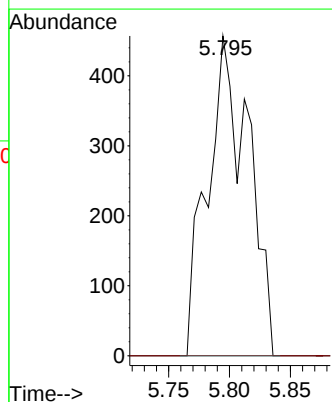
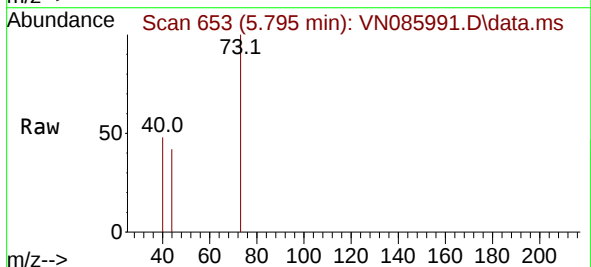
Instrument :
MSVOA_N
ClientSampleId :
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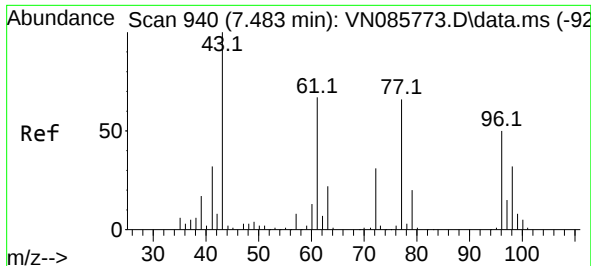
Tgt Ion: 76 Resp: 1137
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



#19
Methyl tert-butyl Ether
Concen: 0.230 ug/l
RT: 5.795 min Scan# 653
Delta R.T. 0.006 min
Lab File: VN085991.D
Acq: 14 Mar 2025 15:57

Tgt Ion: 73 Resp: 1074
Ion Ratio Lower Upper
73 100
57 0.0 17.6 26.4#

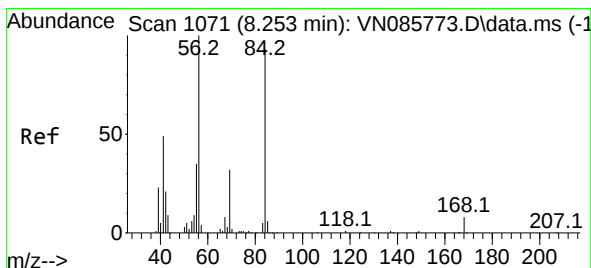
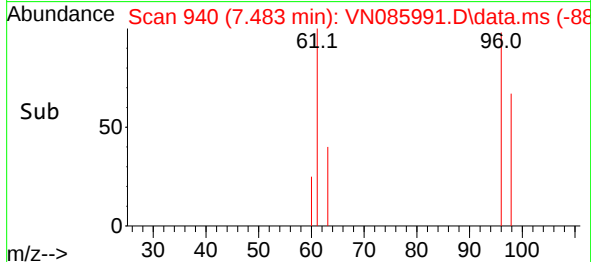
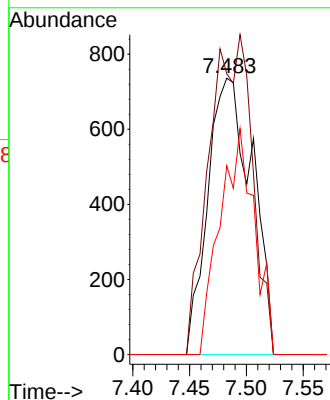
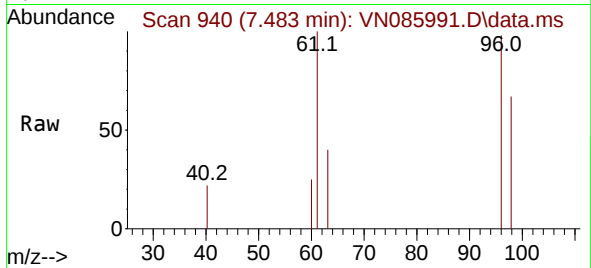




#27
 cis-1,2-Dichloroethene
 Concen: 1.021 ug/l
 RT: 7.483 min Scan# 940
 Delta R.T. 0.000 min
 Lab File: VN085991.D
 Acq: 14 Mar 2025 15:57

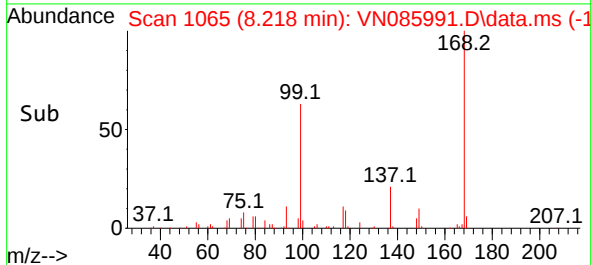
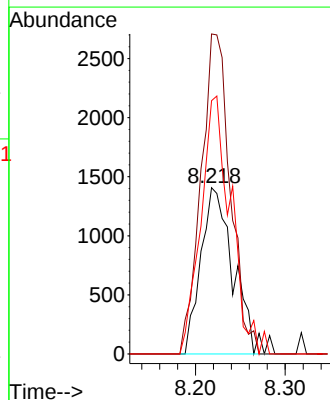
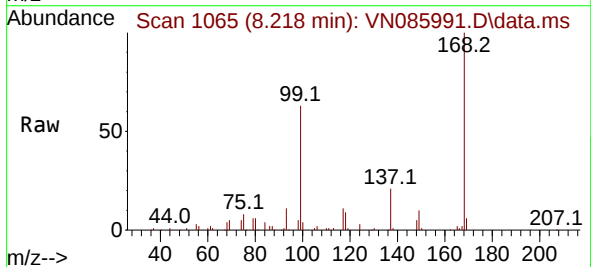
Instrument :
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 ClientSampleId :
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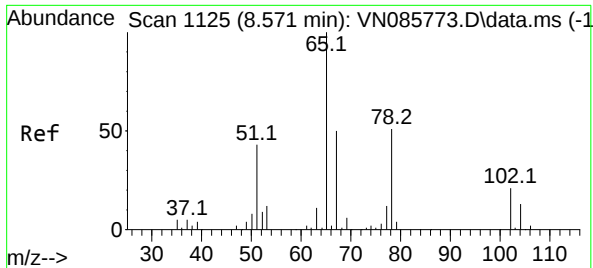
Tgt Ion: 96	Resp:	2002	
Ion	Ratio	Lower	Upper
96	100		
61	111.9	0.0	280.6
98	63.4	0.0	128.6



#31
 Cyclohexane
 Concen: 1.343 ug/l
 RT: 8.218 min Scan# 1065
 Delta R.T. -0.035 min
 Lab File: VN085991.D
 Acq: 14 Mar 2025 15:57

Tgt Ion: 56	Resp:	3561	
Ion	Ratio	Lower	Upper
56	100		
69	192.5	25.8	38.6#
84	152.4	74.5	111.7#





#33

1,2-Dichloroethane-d4

Concen: 52.388 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085991.D

Acq: 14 Mar 2025 15:57

Instrument :

MSVOA_N

ClientSampleId :

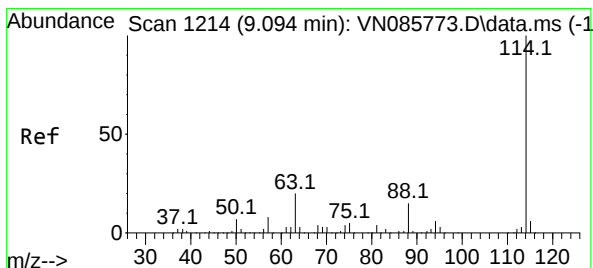
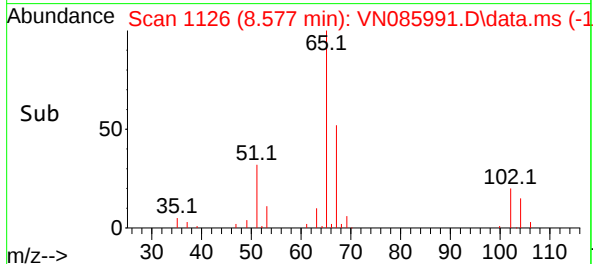
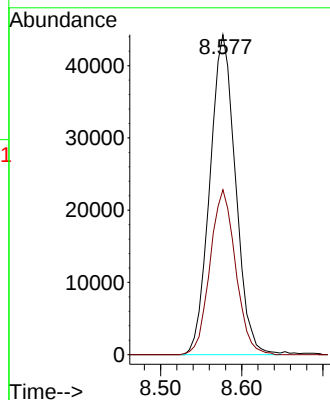
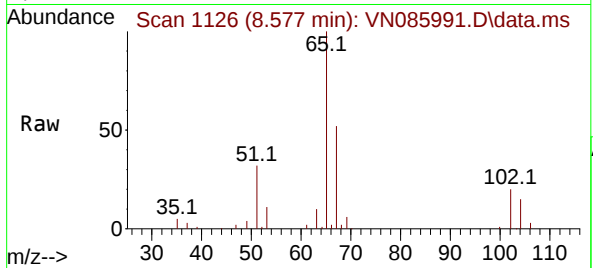
MW7

Tgt Ion: 65 Resp: 97280

Ion Ratio Lower Upper

65 100

67 51.4 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085991.D

Acq: 14 Mar 2025 15:57

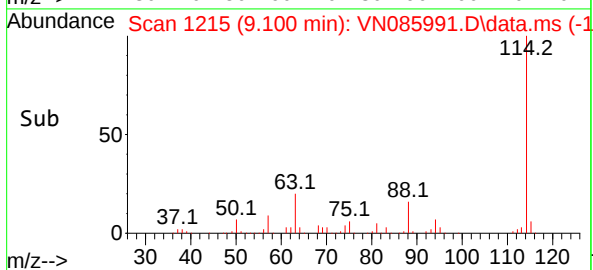
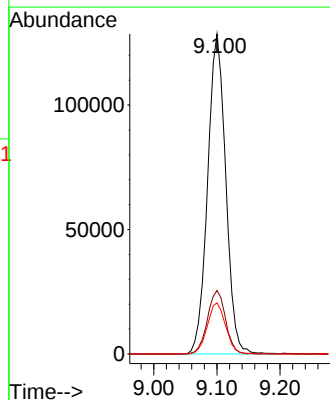
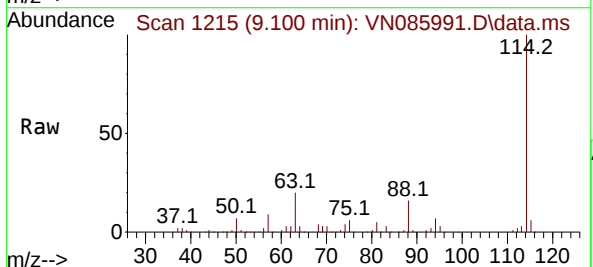
Tgt Ion:114 Resp: 256406

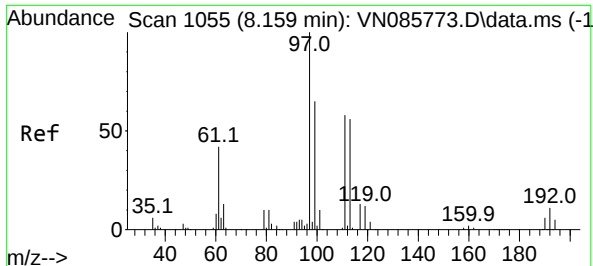
Ion Ratio Lower Upper

114 100

63 19.9 0.0 39.2

88 16.0 0.0 30.0

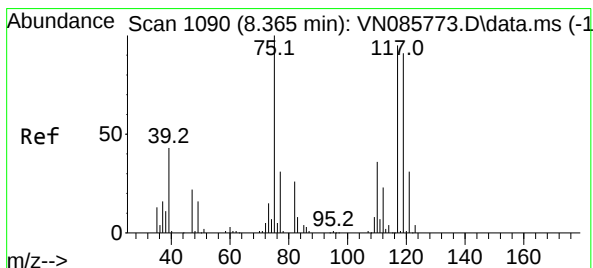
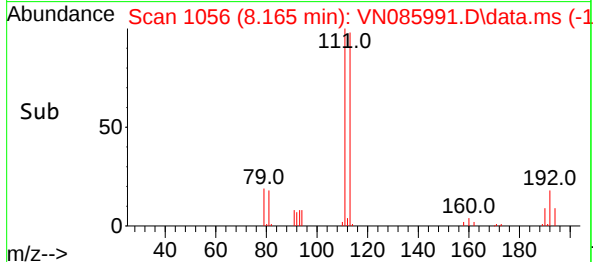
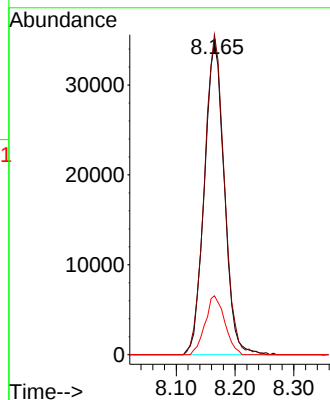
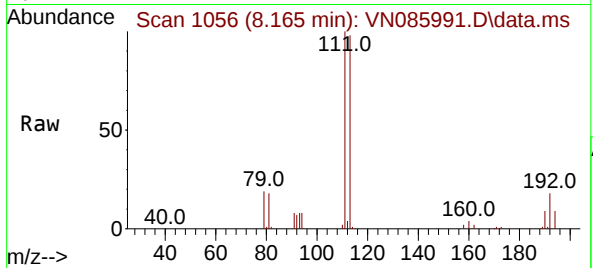




#35
Dibromofluoromethane
Concen: 48.722 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085991.D
Acq: 14 Mar 2025 15:57

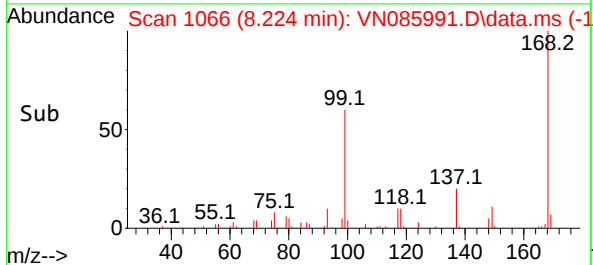
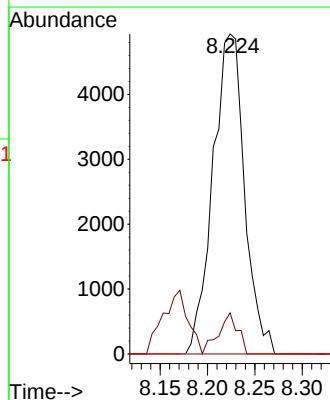
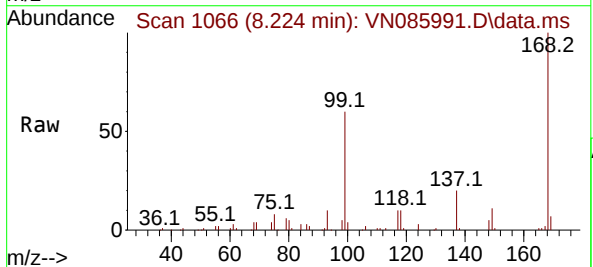
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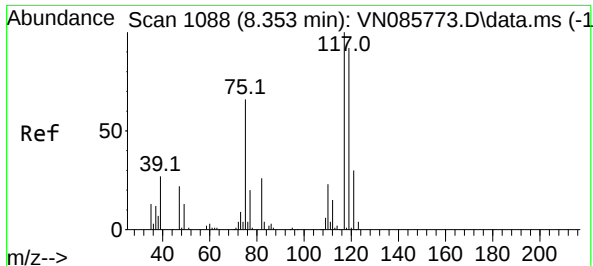
Tgt Ion:113 Resp: 81746
Ion Ratio Lower Upper
113 100
111 102.4 82.2 123.4
192 18.5 14.7 22.1



#36
1,1-Dichloropropene
Concen: 4.829 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.141 min
Lab File: VN085991.D
Acq: 14 Mar 2025 15:57

Tgt Ion: 75 Resp: 11467
Ion Ratio Lower Upper
75 100
110 7.9 17.3 52.0#
77 0.0 24.6 37.0#

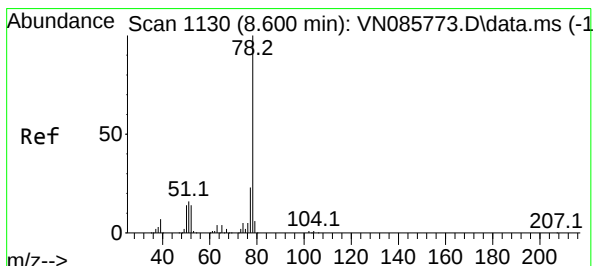
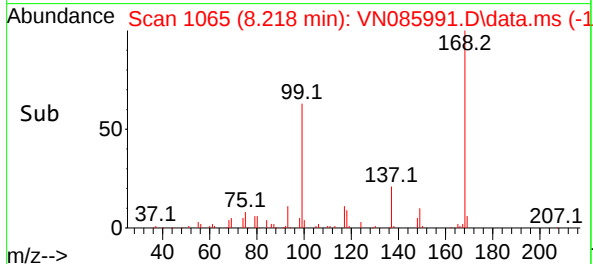
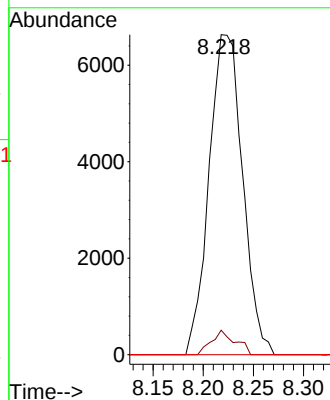
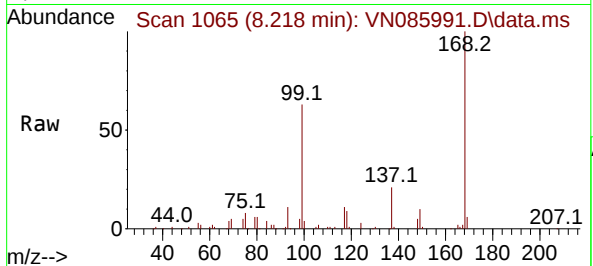




#38
Carbon Tetrachloride
Concen: 5.476 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.135 min
Lab File: VN085991.D
Acq: 14 Mar 2025 15:57

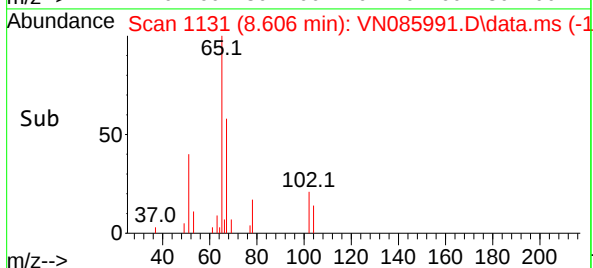
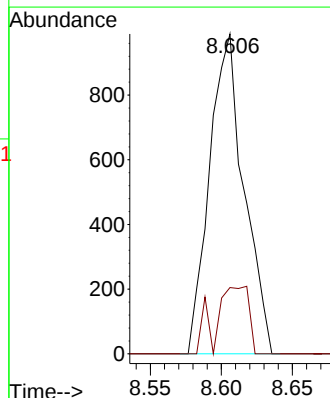
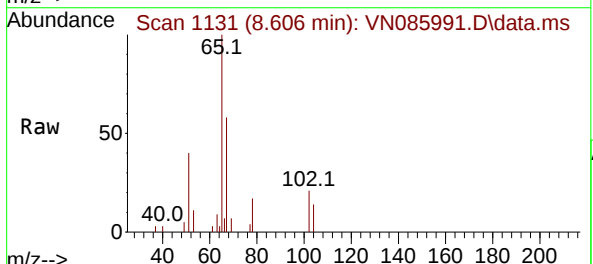
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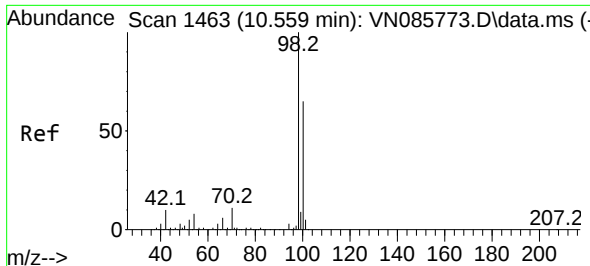
Tgt Ion:117 Resp: 15450
Ion Ratio Lower Upper
117 100
119 7.7 73.8 110.6#
121 0.0 24.3 36.5#



#40
Benzene
Concen: 0.219 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VN085991.D
Acq: 14 Mar 2025 15:57

Tgt Ion: 78 Resp: 1670
Ion Ratio Lower Upper
78 100
77 20.7 18.3 27.5

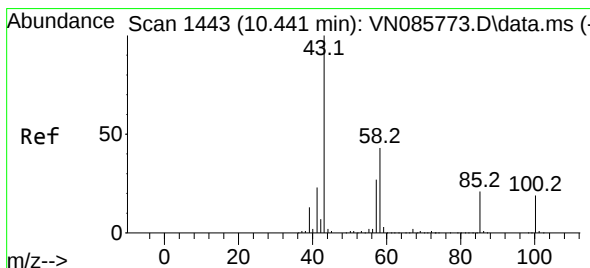
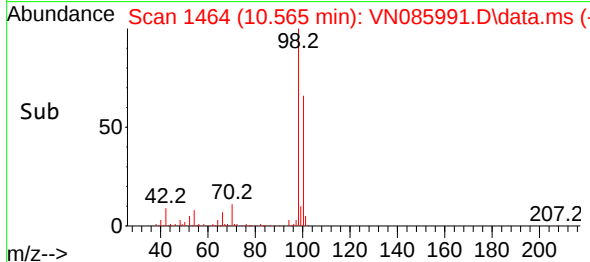
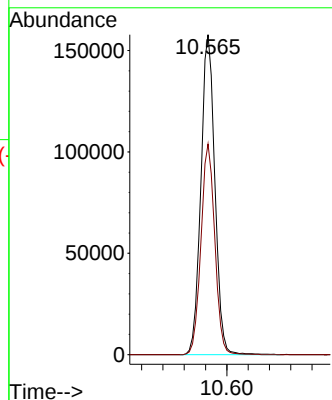
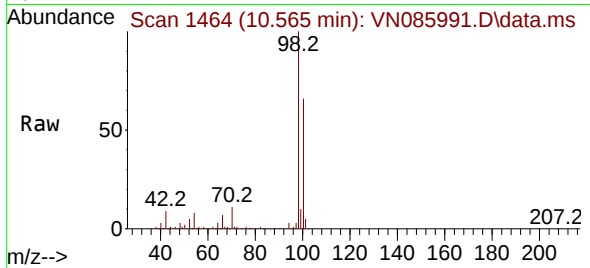




#50
Toluene-d8
Concen: 47.067 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN085991.D
Acq: 14 Mar 2025 15:57

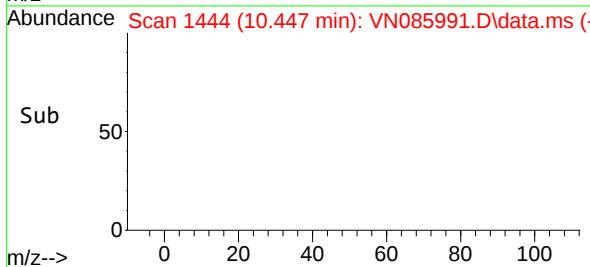
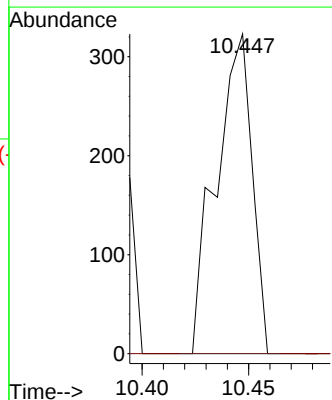
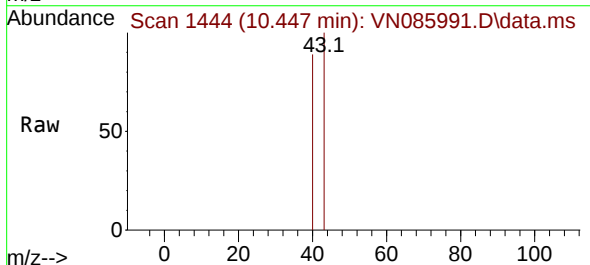
Instrument :
MSVOA_N
ClientSampleId :
MW7

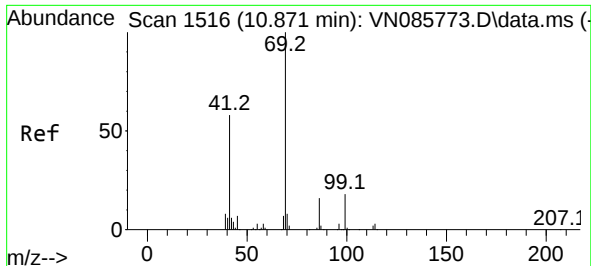
Tgt Ion: 98 Resp: 287315
Ion Ratio Lower Upper
98 100
100 65.1 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 0.202 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN085991.D
Acq: 14 Mar 2025 15:57

Tgt Ion: 43 Resp: 381
Ion Ratio Lower Upper
43 100
58 0.0 34.6 52.0#

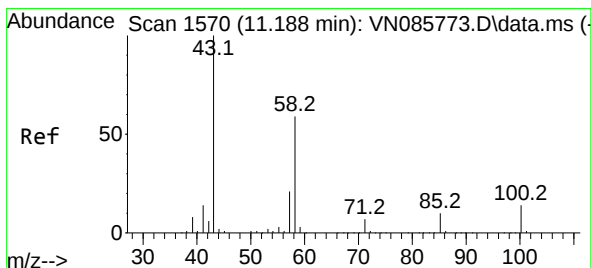
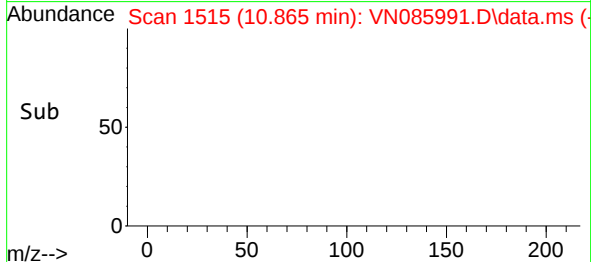
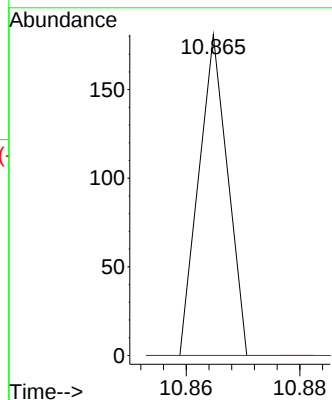
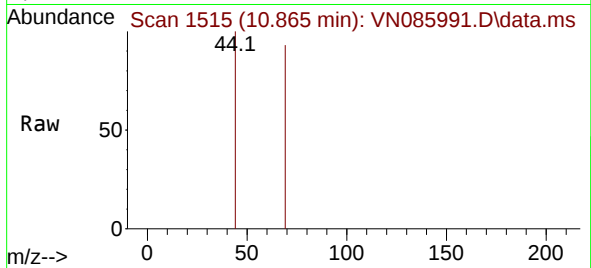




#56
Ethyl methacrylate
Concen: 0.488 ug/l
RT: 10.865 min Scan# 1516
Delta R.T. -0.006 min
Lab File: VN085991.D
Acq: 14 Mar 2025 15:57

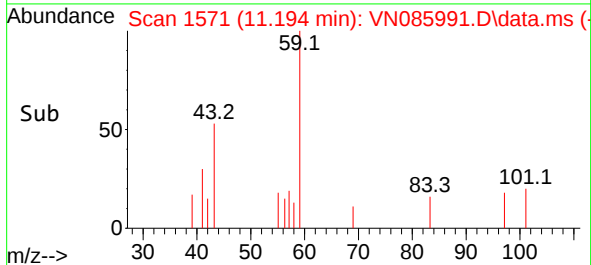
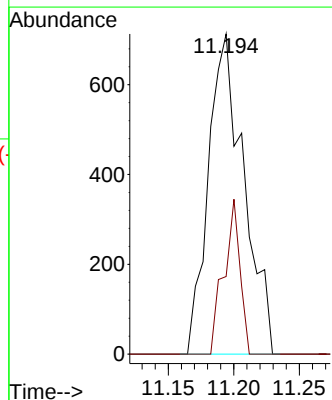
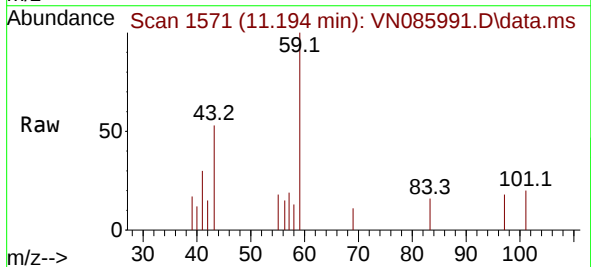
Instrument :
MSVOA_N
ClientSampleId :
MW7

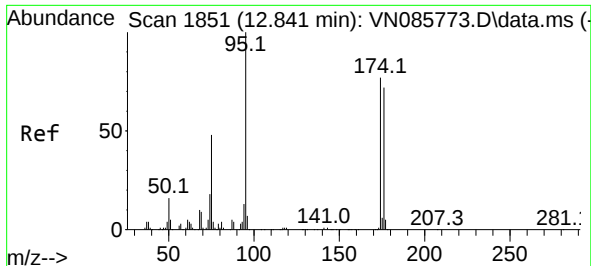
Tgt Ion:	69	Resp:	64
Ion	Ratio	Lower	Upper
69	100		
41	0.0	46.0	69.0#
39	0.0	22.0	33.0#



#59
2-Hexanone
Concen: 1.033 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.006 min
Lab File: VN085991.D
Acq: 14 Mar 2025 15:57

Tgt Ion:	43	Resp:	1339
Ion	Ratio	Lower	Upper
43	100		
58	22.0	29.8	89.5#

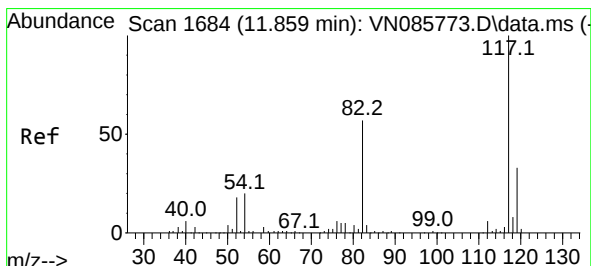
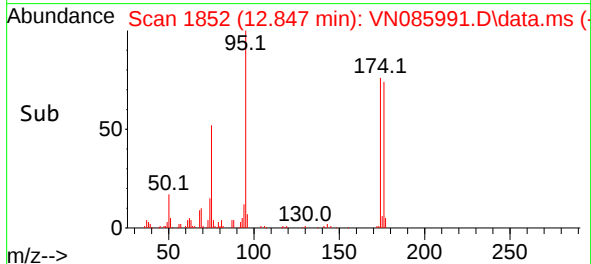
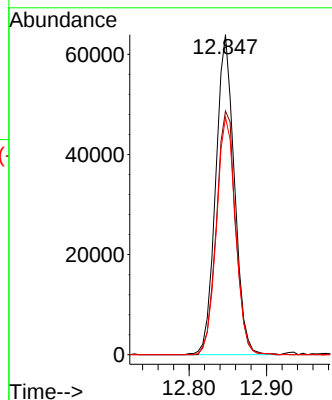
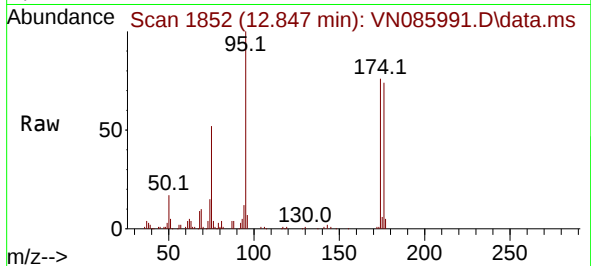




#62
4-Bromofluorobenzene
Concen: 53.167 ug/l
RT: 12.847 min Scan# 1851
Delta R.T. 0.006 min
Lab File: VN085991.D
Acq: 14 Mar 2025 15:57

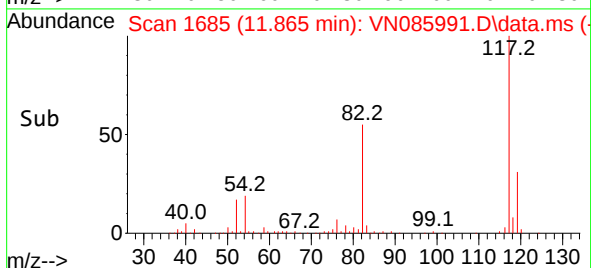
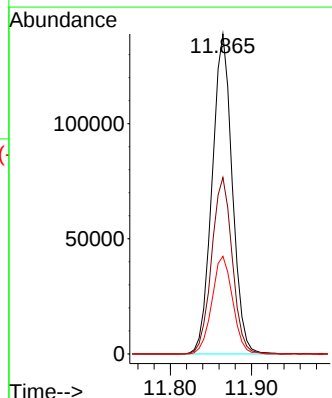
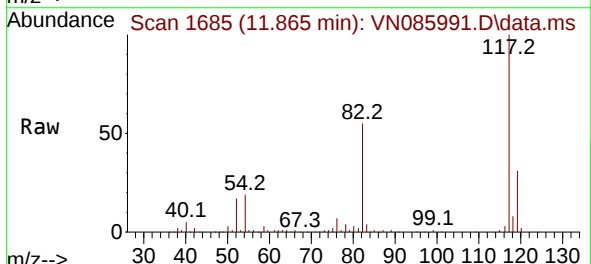
Instrument :
MSVOA_N
ClientSampleId :
MW7

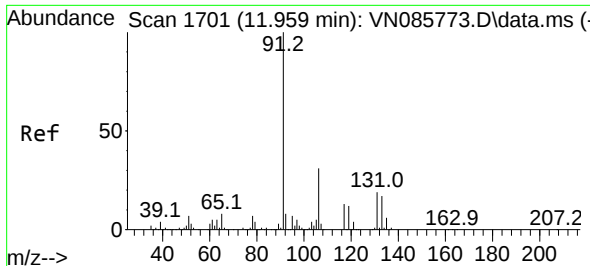
Tgt Ion: 95 Resp: 106931
Ion Ratio Lower Upper
95 100
174 78.3 0.0 152.4
176 75.8 0.0 146.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.006 min
Lab File: VN085991.D
Acq: 14 Mar 2025 15:57

Tgt Ion: 117 Resp: 239550
Ion Ratio Lower Upper
117 100
82 55.1 45.7 68.5
119 30.6 26.2 39.2





#67

Ethyl Benzene

Concen: 0.633 ug/l

RT: 11.965 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN085991.D

Acq: 14 Mar 2025 15:57

Instrument :

MSVOA_N

ClientSampleId :

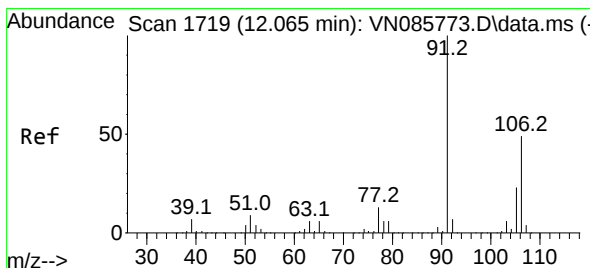
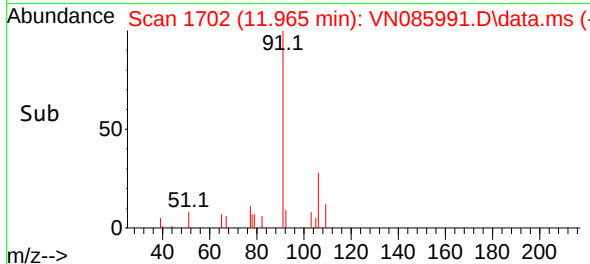
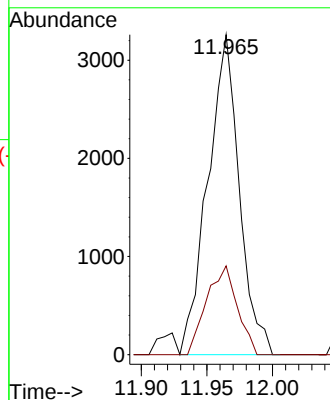
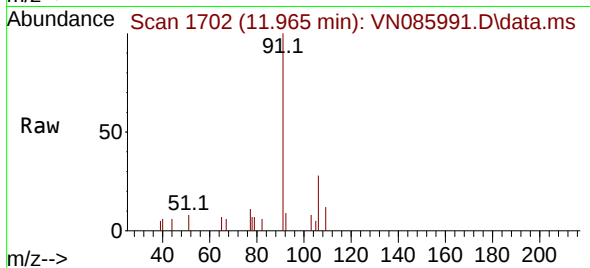
MW7

Tgt Ion: 91 Resp: 5439

Ion Ratio Lower Upper

91 100

106 27.8 24.7 37.1



#68

m/p-Xylenes

Concen: 0.345 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. 0.006 min

Lab File: VN085991.D

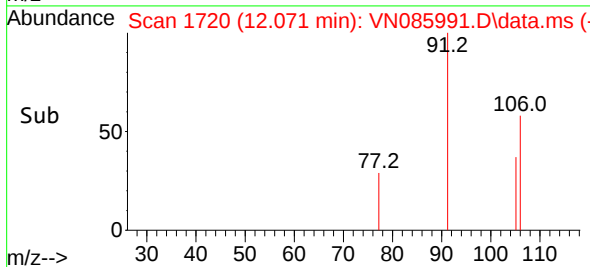
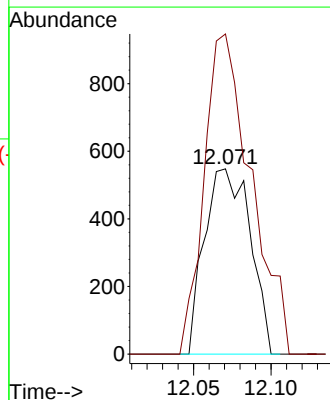
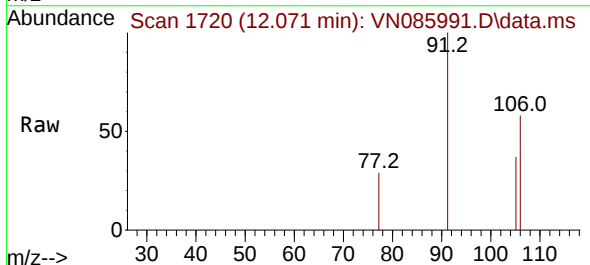
Acq: 14 Mar 2025 15:57

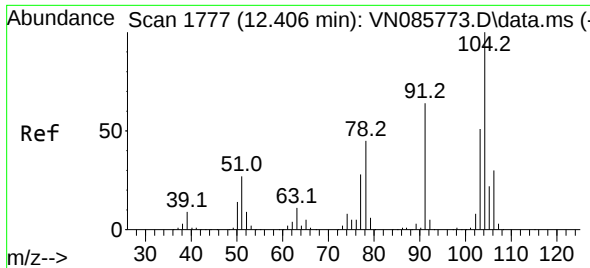
Tgt Ion: 106 Resp: 1125

Ion Ratio Lower Upper

106 100

91 177.0 163.3 244.9

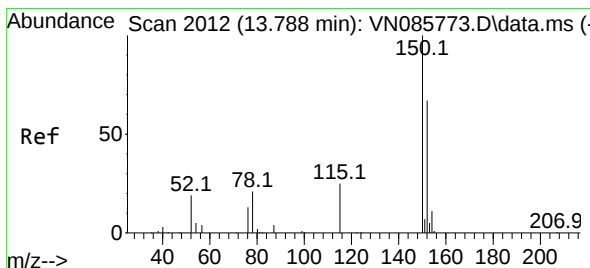
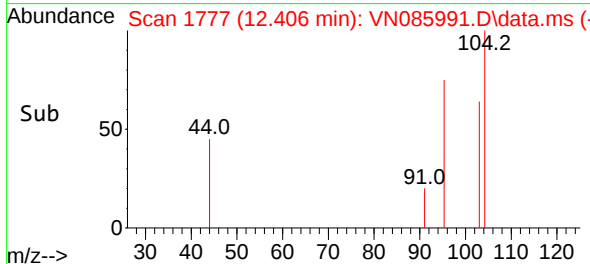
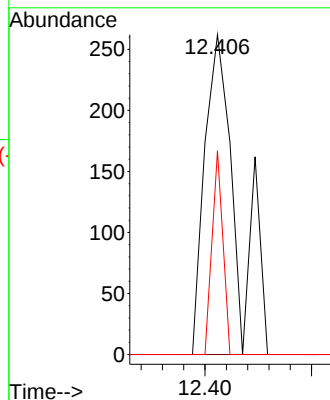
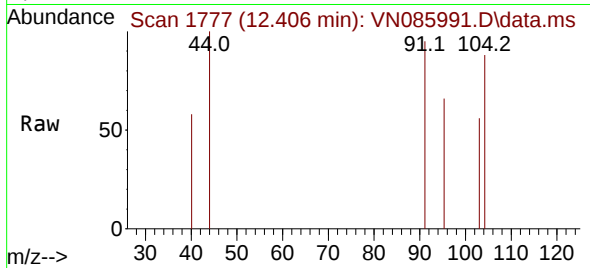




#70
Styrene
Concen: 0.636 ug/l
RT: 12.406 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085991.D
Acq: 14 Mar 2025 15:57

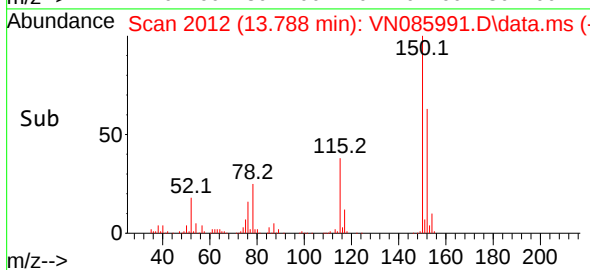
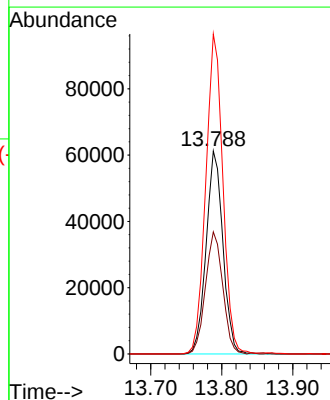
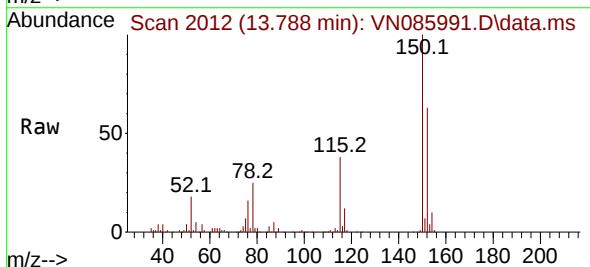
Instrument :
MSVOA_N
ClientSampleId :
MW7

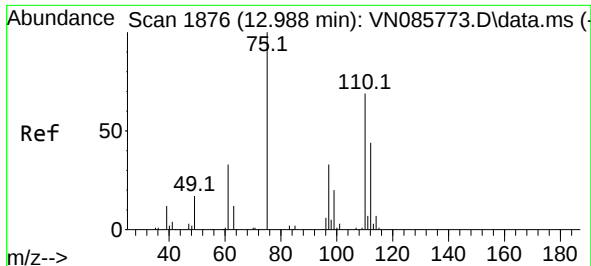
Tgt Ion:104 Resp: 272
Ion Ratio Lower Upper
104 100
78 0.0 39.0 58.6#
103 21.7 43.3 64.9#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085991.D
Acq: 14 Mar 2025 15:57

Tgt Ion:152 Resp: 100914
Ion Ratio Lower Upper
152 100
115 61.8 30.4 91.3
150 159.8 0.0 345.4

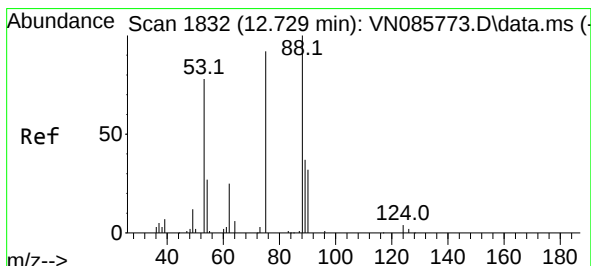
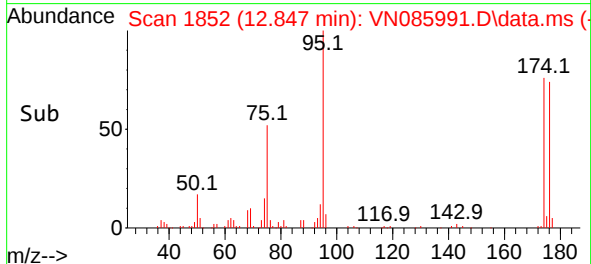
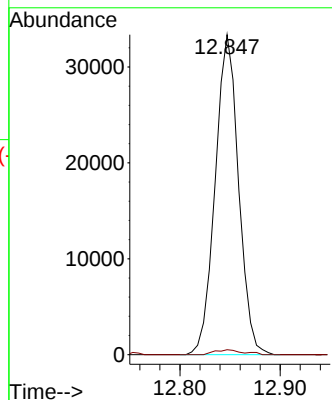
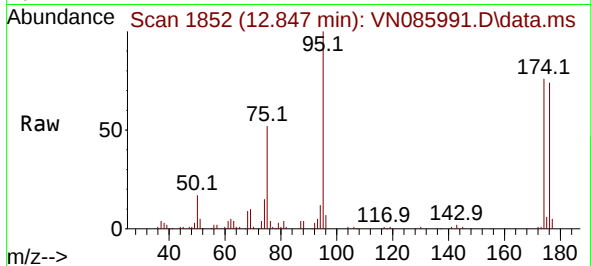




#76
1,2,3-Trichloropropane
Concen: 24.060 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN085991.D
Acq: 14 Mar 2025 15:57

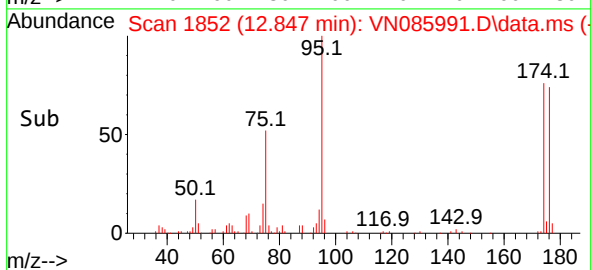
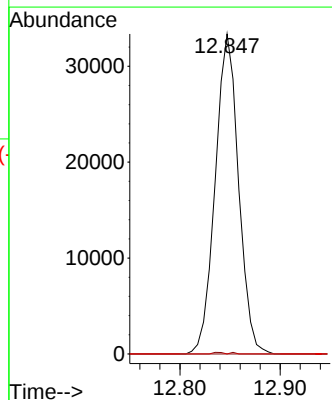
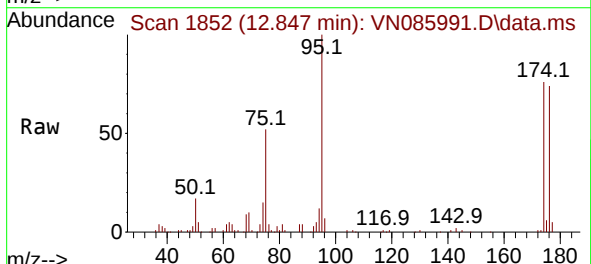
Instrument :
MSVOA_N
ClientSampleId :
MW7

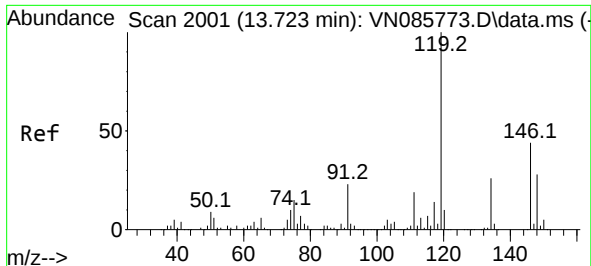
Tgt Ion: 75 Resp: 53934
Ion Ratio Lower Upper
75 100
77 1.9 100.0 300.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 70.201 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.118 min
Lab File: VN085991.D
Acq: 14 Mar 2025 15:57

Tgt Ion: 75 Resp: 53934
Ion Ratio Lower Upper
75 100
53 0.2 74.2 111.4#
89 0.0 34.9 52.3#

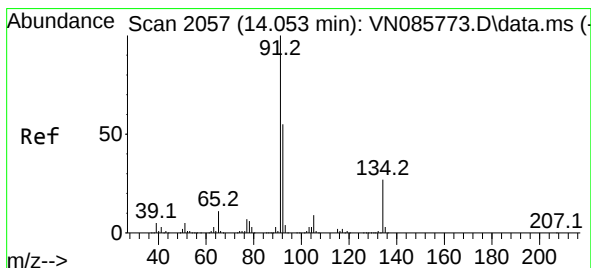
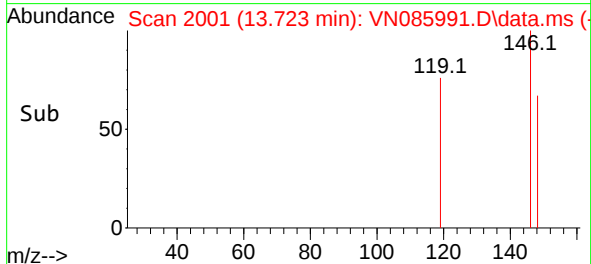
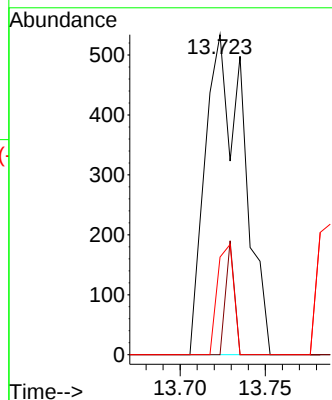
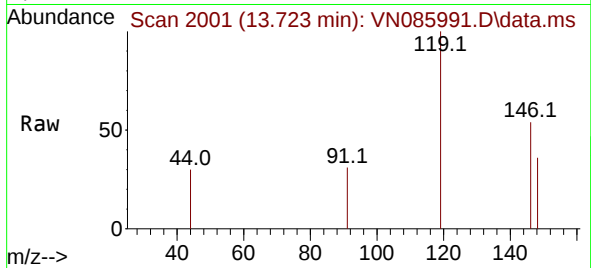




#86
p-Isopropyltoluene
Concen: 0.770 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VN085991.D
Acq: 14 Mar 2025 15:57

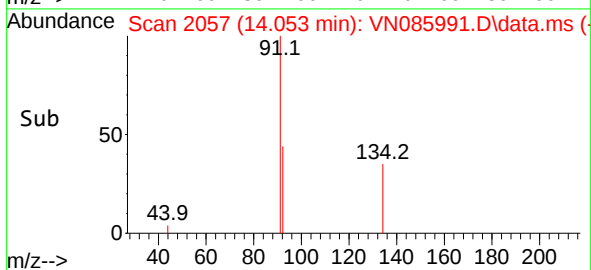
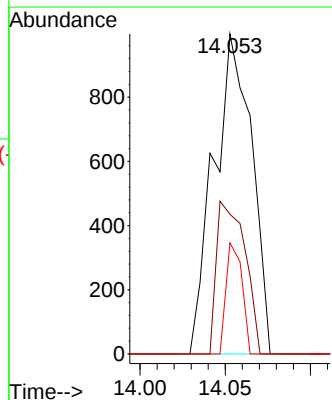
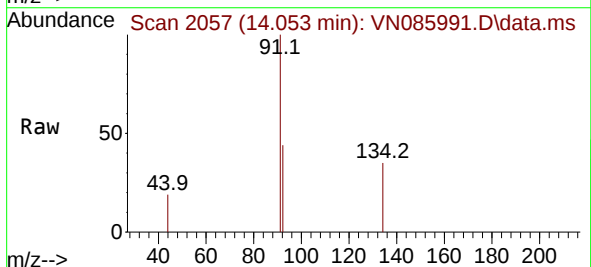
Instrument :
MSVOA_N
ClientSampleId :
MW7

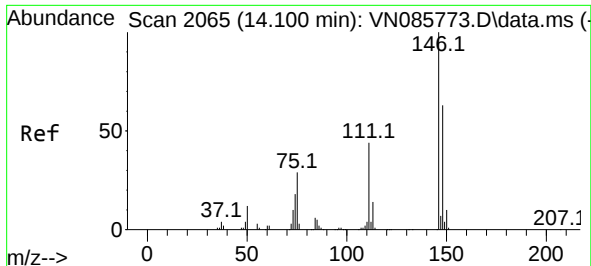
Tgt Ion:119 Resp: 830
Ion Ratio Lower Upper
119 100
134 8.1 13.0 39.0#
91 14.7 11.7 35.1



#89
n-Butylbenzene
Concen: 0.325 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN085991.D
Acq: 14 Mar 2025 15:57

Tgt Ion: 91 Resp: 1543
Ion Ratio Lower Upper
91 100
92 35.6 27.1 81.3
134 14.5 12.7 38.1

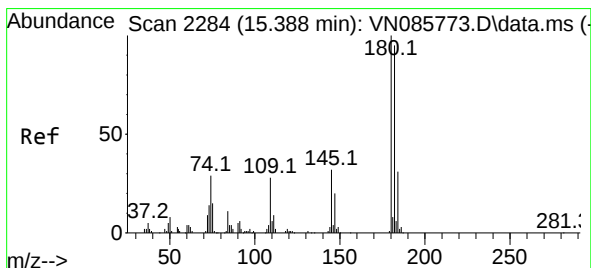
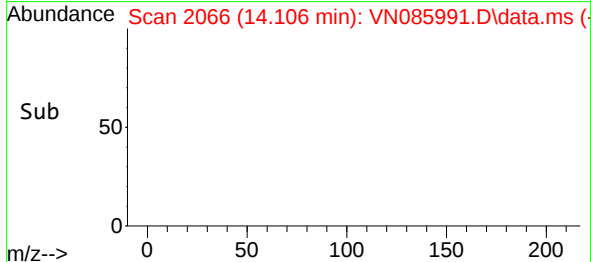
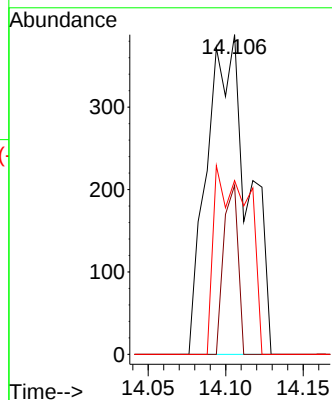
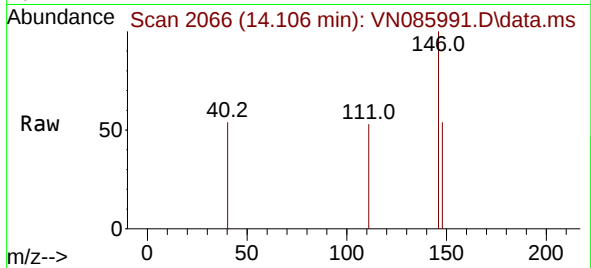




#91
1,2-Dichlorobenzene
Concen: 0.213 ug/l
RT: 14.106 min Scan# 2065
Delta R.T. 0.006 min
Lab File: VN085991.D
Acq: 14 Mar 2025 15:57

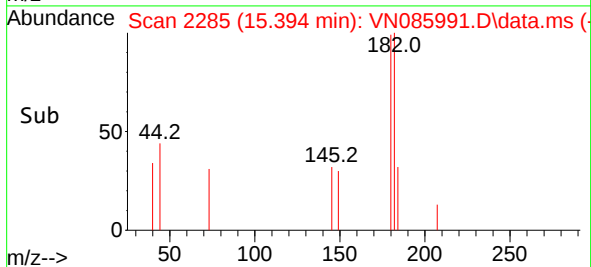
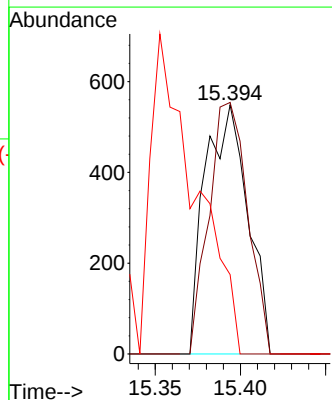
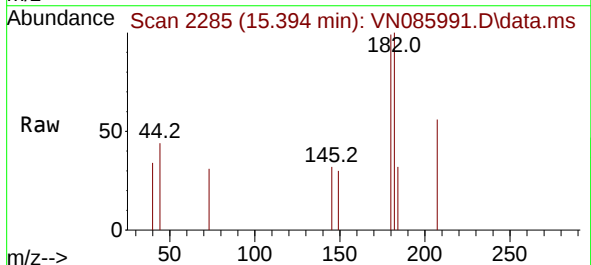
Instrument :
MSVOA_N
ClientSampleId :
MW7

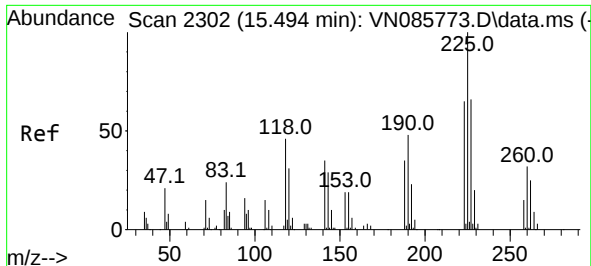
Tgt Ion:146 Resp: 717
Ion Ratio Lower Upper
146 100
111 18.4 21.4 64.3#
148 49.2 32.0 96.2



#93
1,2,4-Trichlorobenzene
Concen: 0.597 ug/l
RT: 15.394 min Scan# 2285
Delta R.T. 0.006 min
Lab File: VN085991.D
Acq: 14 Mar 2025 15:57

Tgt Ion:180 Resp: 957
Ion Ratio Lower Upper
180 100
182 91.7 47.3 141.9
145 0.0 16.2 48.5#

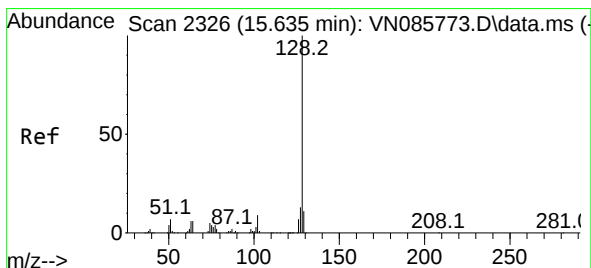
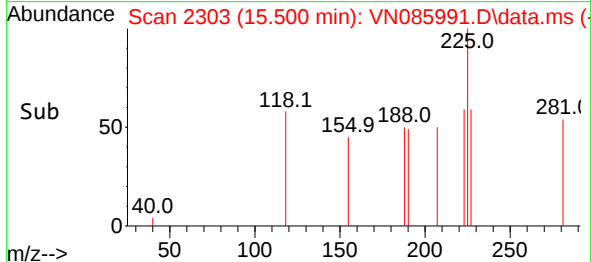
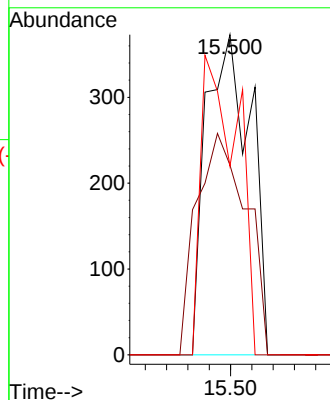
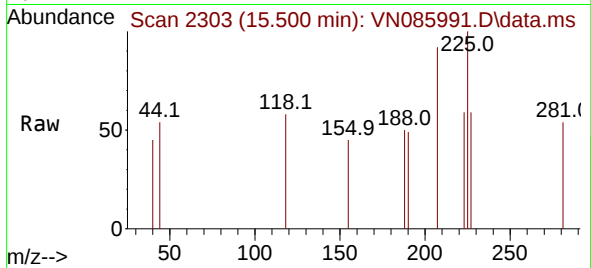




#94
Hexachlorobutadiene
Concen: 0.555 ug/l
RT: 15.500 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN085991.D
Acq: 14 Mar 2025 15:57

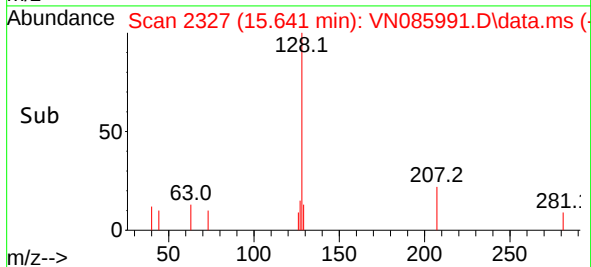
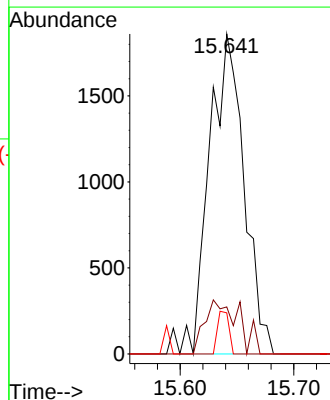
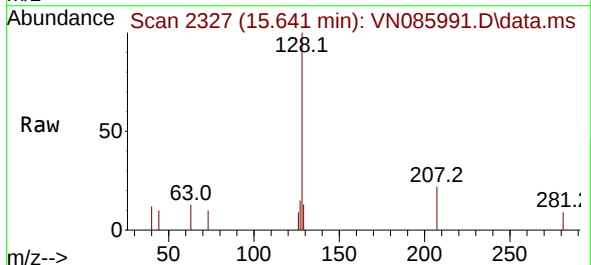
Instrument :
MSVOA_N
ClientSampleId :
MW7

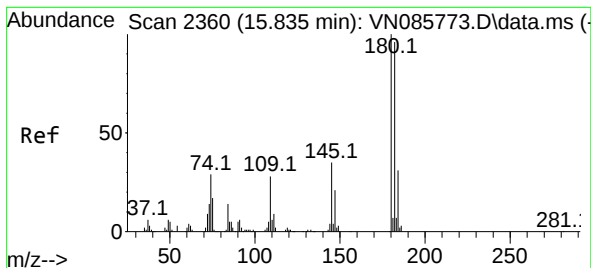
Tgt Ion:225 Resp: 541
Ion Ratio Lower Upper
225 100
223 77.4 31.9 95.5
227 77.3 32.2 96.6



#95
Naphthalene
Concen: 0.894 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.006 min
Lab File: VN085991.D
Acq: 14 Mar 2025 15:57

Tgt Ion:128 Resp: 3934
Ion Ratio Lower Upper
128 100
127 16.7 10.2 15.2#
129 4.4 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.709 ug/l
 RT: 15.841 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN085991.D
 Acq: 14 Mar 2025 15:57

Instrument :
 MSVOA_N
 ClientSampleId :
 MW7

Tgt Ion	Ratio	Lower	Upper
180	100		
182	80.0	47.3	141.8
145	25.8	16.9	50.6

