

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
 Data File : VN085457.D
 Acq On : 15 Jan 2025 13:25
 Operator : JC\MD
 Sample : PB166029ZHE#01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 16 00:57:35 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)

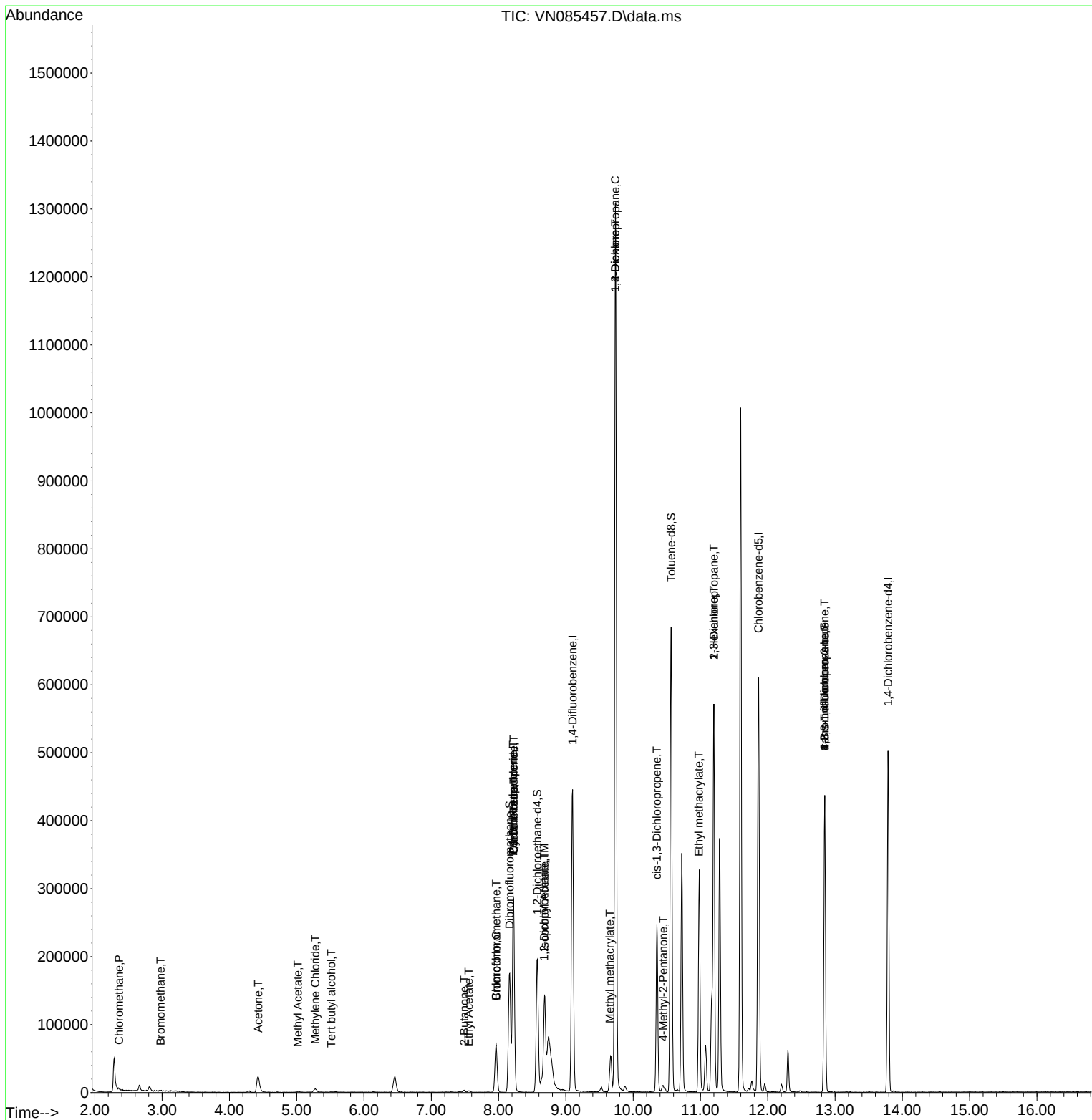
Internal Standards						
1) Pentafluorobenzene	8.218	168	192770	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	368463	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	331245	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	126057	50.000	ug/l	0.00

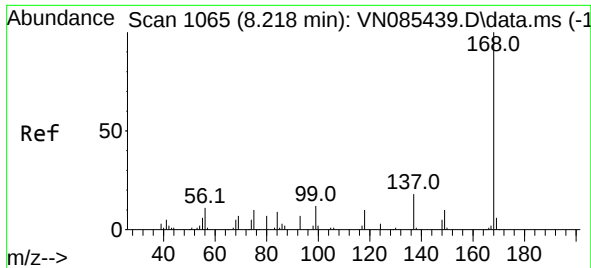
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	166230	53.421	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	106.840%
35) Dibromofluoromethane	8.165	113	125571	49.124	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	98.240%
50) Toluene-d8	10.565	98	461293	50.791	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	101.580%
62) 4-Bromofluorobenzene	12.847	95	143372	46.148	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	92.300%

Target Compounds					Qvalue	
3) Chloromethane	2.359	50	701	0.248	ug/l #	41
5) Bromomethane	2.977	94	643	0.375	ug/l	83
11) Tert butyl alcohol	5.512	59	627	1.760	ug/l #	71
16) Acetone	4.430	43	46708	46.456	ug/l	100
18) Methyl Acetate	5.018	43	2214	0.724	ug/l #	52
20) Methylene Chloride	5.277	84	3997	1.606	ug/l	88
25) 2-Butanone	7.488	43	5118	3.459	ug/l	97
28) Bromochloromethane	7.965	49	5668	2.681	ug/l #	18
30) Chloroform	7.965	83	64986	13.839	ug/l	97
31) Cyclohexane	8.224	56	5779	1.463	ug/l #	10
36) 1,1-Dichloropropene	8.218	75	18440	5.140	ug/l #	50
37) Ethyl Acetate	7.559	43	3672	1.014	ug/l #	81
38) Carbon Tetrachloride	8.224	117	21756	5.297	ug/l #	18
42) 1,2-Dichloroethane	8.676	62	867	0.214	ug/l #	76
43) Isopropyl Acetate	8.682	43	178956	30.842	ug/l #	82
45) 1,2-Dichloropropane	9.735	63	1473	0.535	ug/l #	43
48) Methyl methacrylate	9.653	41	3942	1.510	ug/l #	48
49) 1,4-Dioxane	9.735	88	54	1.228	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	11078	3.290	ug/l #	76
54) cis-1,3-Dichloropropene	10.353	75	39995	9.789	ug/l #	70
56) Ethyl methacrylate	10.976	69	1731	2.331	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	5810	1.352	ug/l #	43
59) 2-Hexanone	11.200	43	66614	28.117	ug/l #	59
76) 1,2,3-Trichloropropane	12.847	75	80633	31.471	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	80633	85.147	ug/l #	3

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

Quant Time: Jan 16 00:57:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
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QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

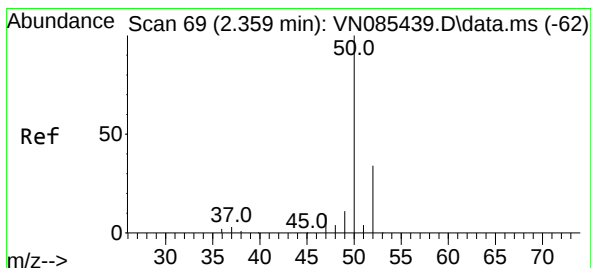
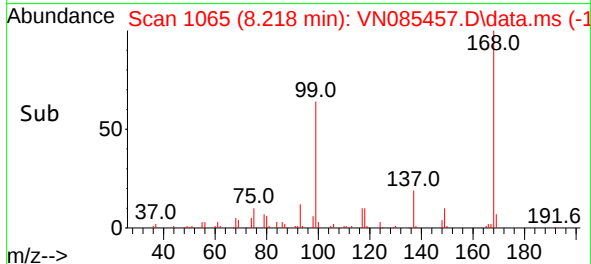
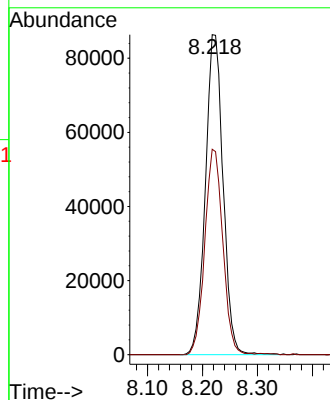
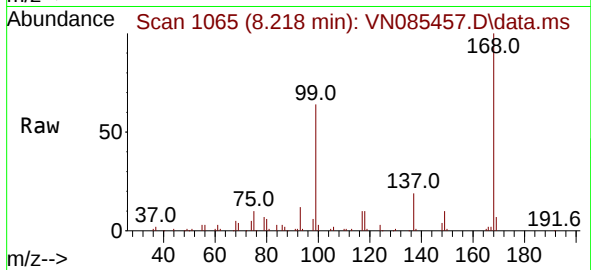




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085457.D
Acq: 15 Jan 2025 13:25

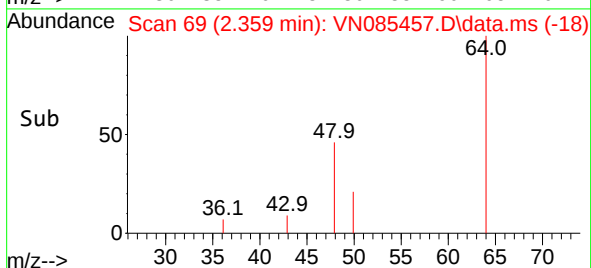
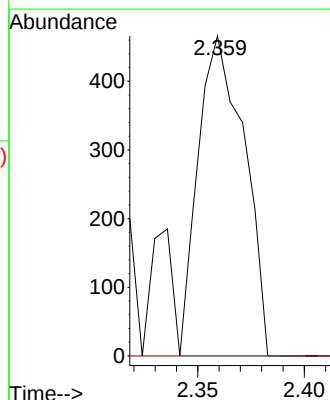
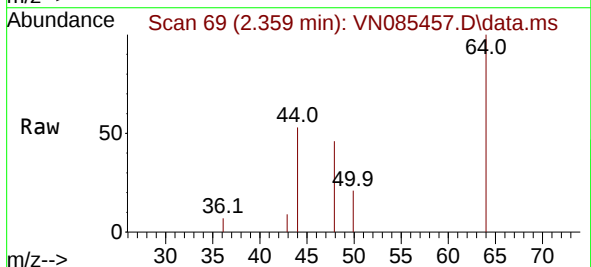
Instrument :
MSVOA_N
ClientSampleId :

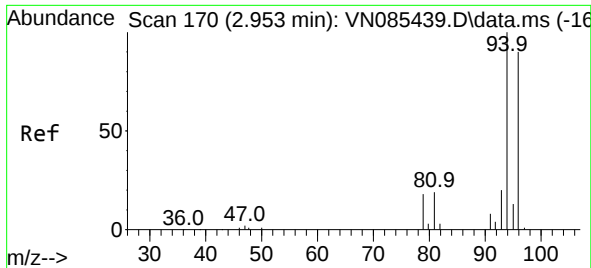
Tgt Ion:168 Resp: 192770
Ion Ratio Lower Upper
168 100
99 64.2 53.6 80.4



#3
Chloromethane
Concen: 0.248 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085457.D
Acq: 15 Jan 2025 13:25

Tgt Ion: 50 Resp: 701
Ion Ratio Lower Upper
50 100
52 0.0 27.0 40.6#

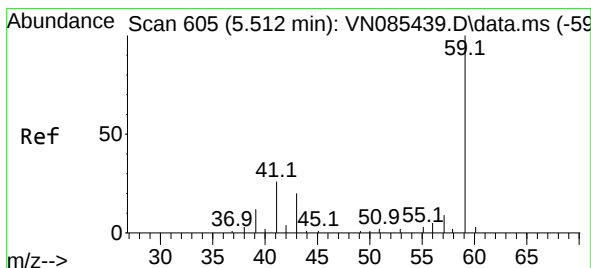
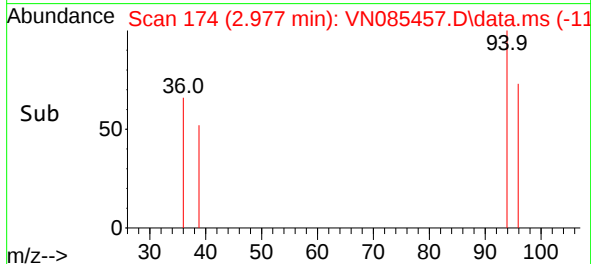
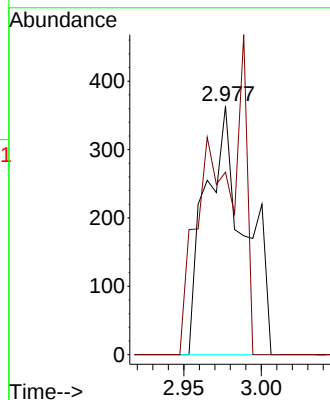
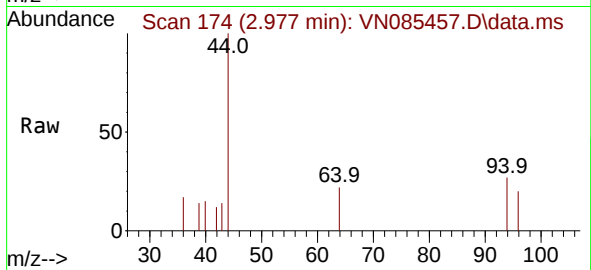




#5
Bromomethane
Concen: 0.375 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.023 min
Lab File: VN085457.D
Acq: 15 Jan 2025 13:25

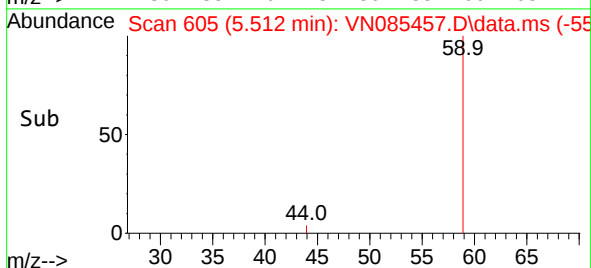
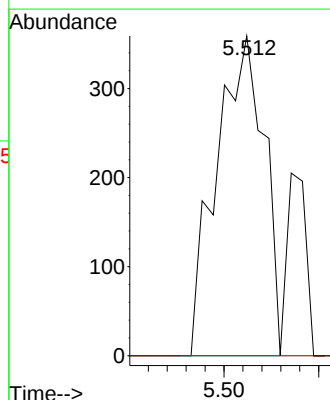
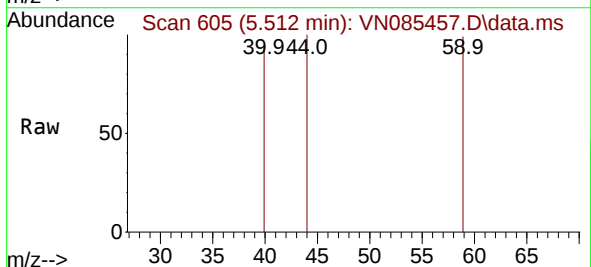
Instrument :
MSVOA_N
ClientSampleId :

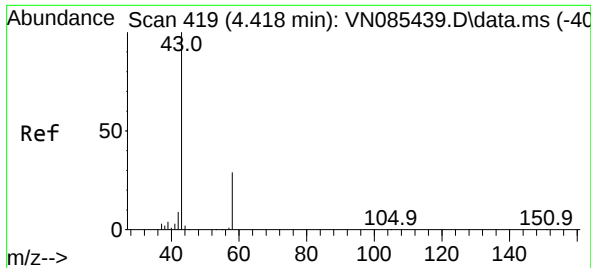
Tgt Ion: 94 Resp: 643
Ion Ratio Lower Upper
94 100
96 73.4 71.8 107.6



#11
Tert butyl alcohol
Concen: 1.760 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.000 min
Lab File: VN085457.D
Acq: 15 Jan 2025 13:25

Tgt Ion: 59 Resp: 627
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#





#16

Acetone

Concen: 46.456 ug/l

RT: 4.430 min Scan# 419

Delta R.T. 0.012 min

Lab File: VN085457.D

Acq: 15 Jan 2025 13:25

Instrument :

MSVOA_N

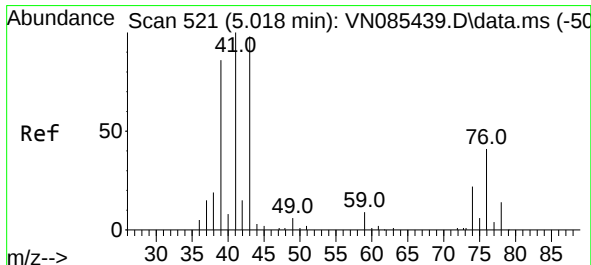
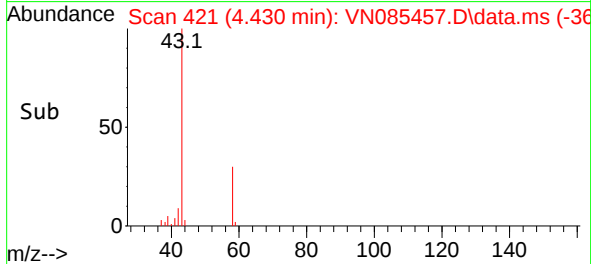
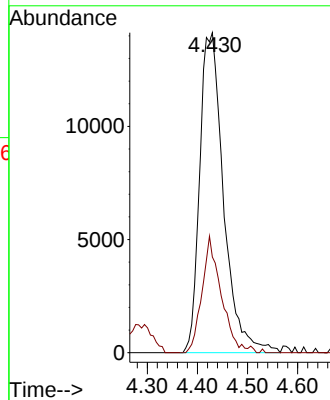
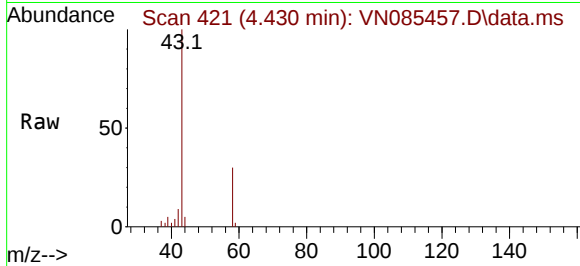
ClientSampleId :

Tgt Ion: 43 Resp: 46708

Ion Ratio Lower Upper

43 100

58 29.9 23.8 35.6



#18

Methyl Acetate

Concen: 0.724 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.000 min

Lab File: VN085457.D

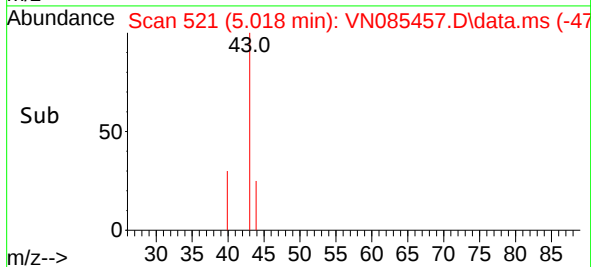
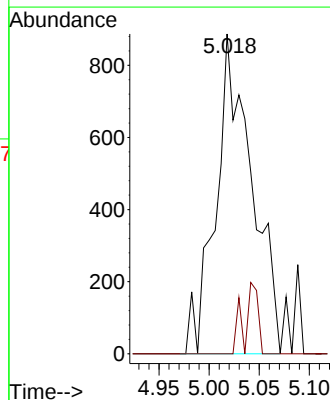
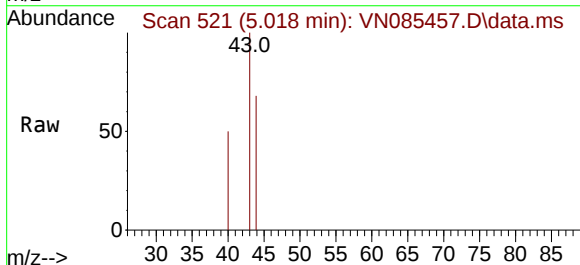
Acq: 15 Jan 2025 13:25

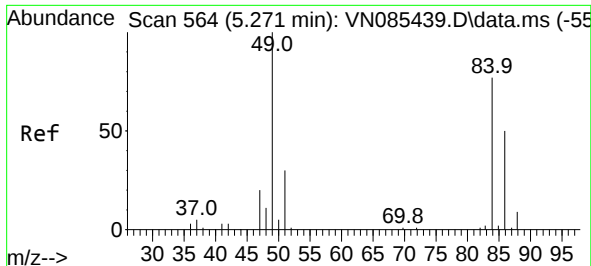
Tgt Ion: 43 Resp: 2214

Ion Ratio Lower Upper

43 100

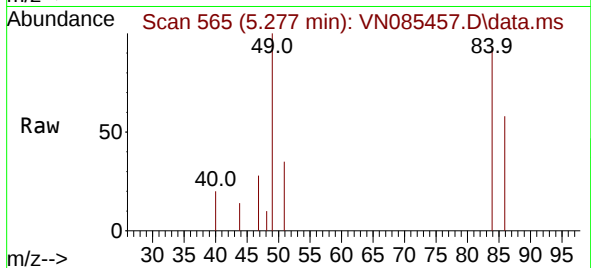
74 0.0 18.6 28.0#



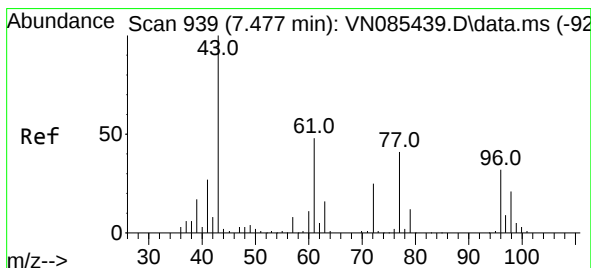
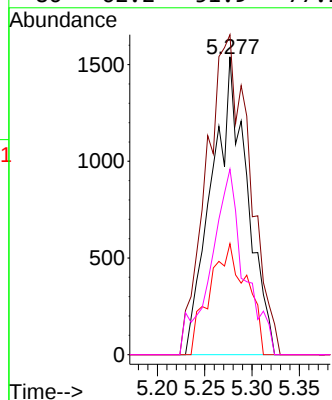


#20
Methylene Chloride
Concen: 1.606 ug/l
RT: 5.277 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN085457.D
Acq: 15 Jan 2025 13:25

Instrument :
MSVOA_N
ClientSampleId :

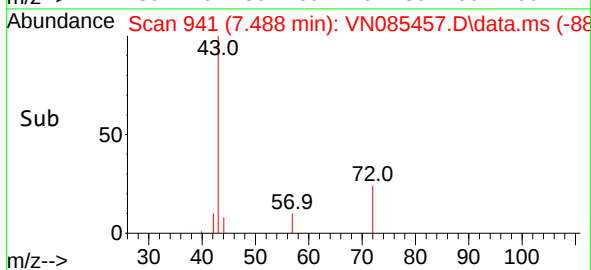
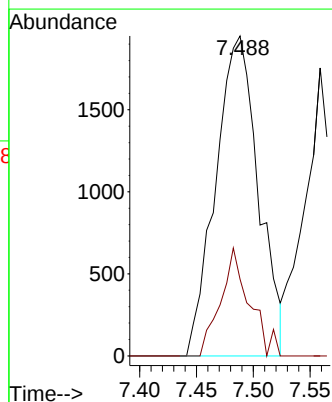
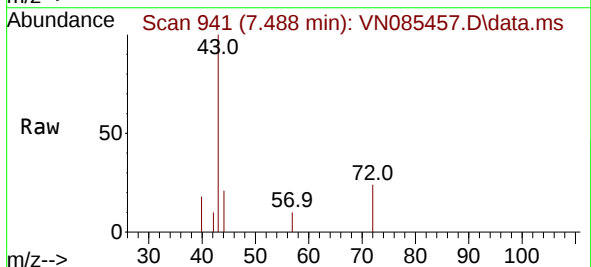


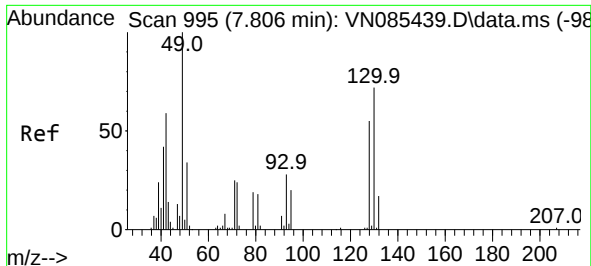
Tgt Ion	84	Resp:	3997
Ion	Ratio	Lower	Upper
84	100		
49	107.4	104.1	156.1
51	37.2	31.0	46.4
86	62.2	51.9	77.9



#25
2-Butanone
Concen: 3.459 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN085457.D
Acq: 15 Jan 2025 13:25

Tgt Ion	43	Resp:	5118
Ion	Ratio	Lower	Upper
43	100		
72	24.0	20.2	30.4

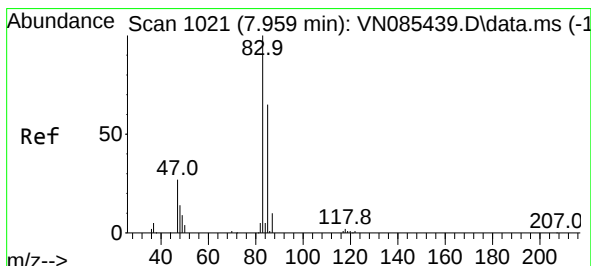
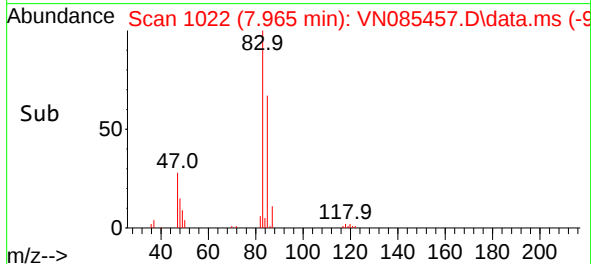
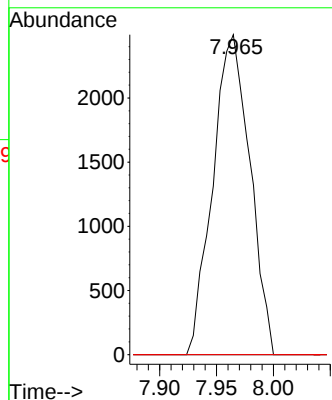
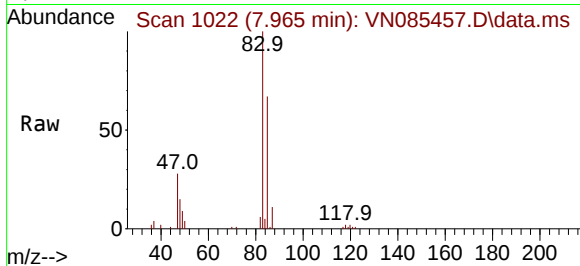




#28
Bromochloromethane
Concen: 2.681 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.159 min
Lab File: VN085457.D
Acq: 15 Jan 2025 13:25

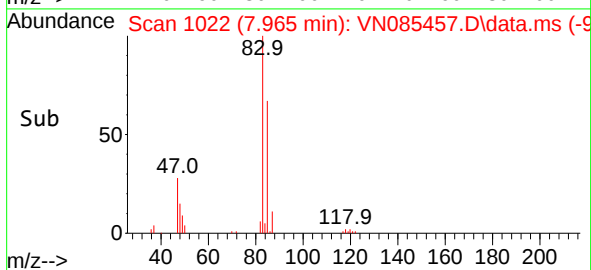
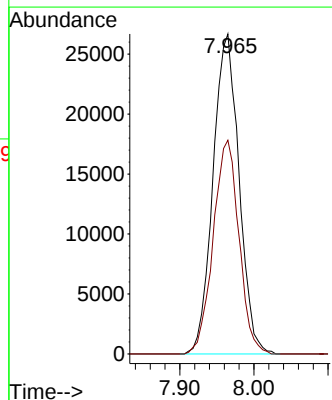
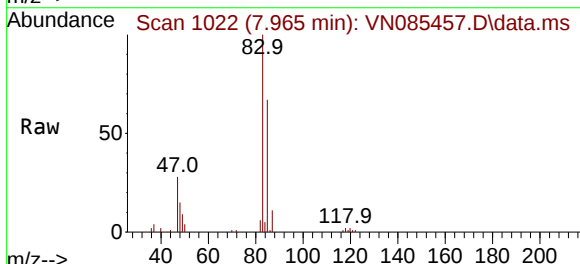
Instrument :
MSVOA_N
ClientSampleId :

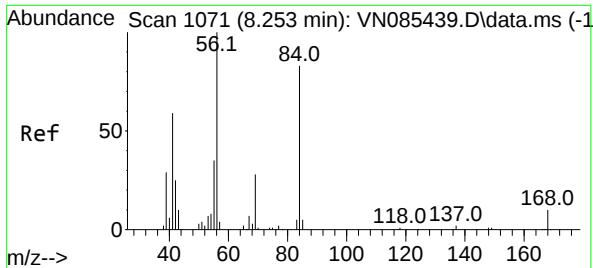
Tgt Ion: 49 Resp: 5668
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.4
130 0.0 55.0 82.4#



#30
Chloroform
Concen: 13.839 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VN085457.D
Acq: 15 Jan 2025 13:25

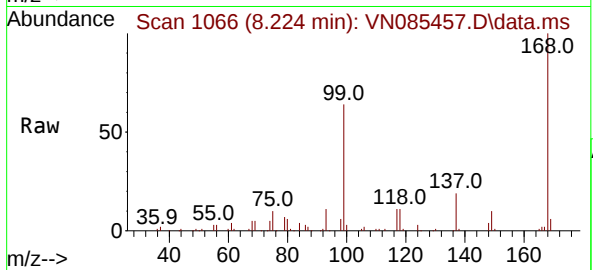
Tgt Ion: 83 Resp: 64986
Ion Ratio Lower Upper
83 100
85 66.8 51.8 77.6





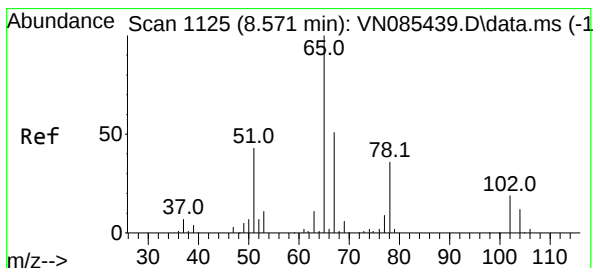
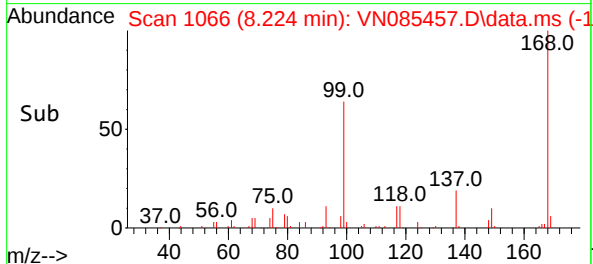
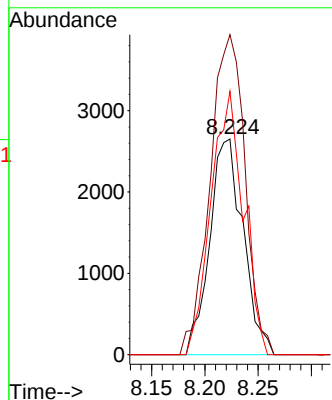
#31
Cyclohexane
Concen: 1.463 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.030 min
Lab File: VN085457.D
Acq: 15 Jan 2025 13:25

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 56 Resp: 5779

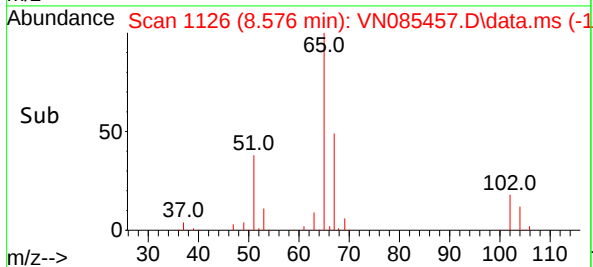
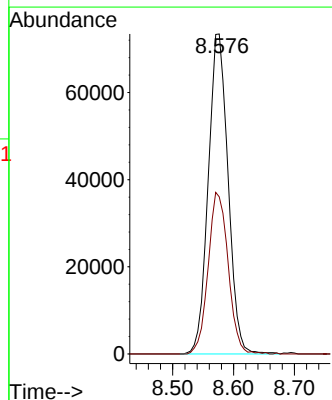
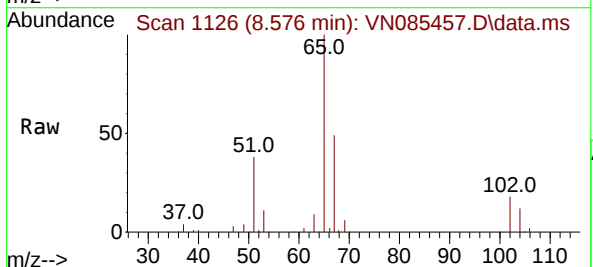
Ion	Ratio	Lower	Upper
56	100		
69	148.3	22.2	33.4#
84	122.1	66.4	99.6#

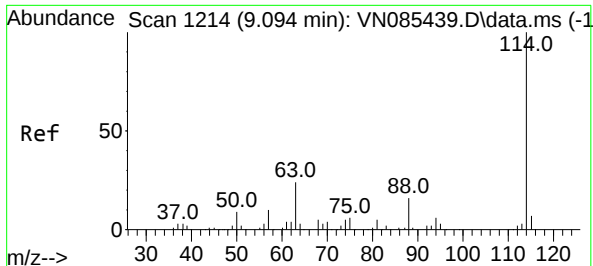


#33
1,2-Dichloroethane-d4
Concen: 53.421 ug/l
RT: 8.576 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085457.D
Acq: 15 Jan 2025 13:25

Tgt Ion: 65 Resp: 166230

Ion	Ratio	Lower	Upper
65	100		
67	50.9	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: VN085457.D

Acq: 15 Jan 2025 13:25

Instrument :

MSVOA_N

ClientSampleId :

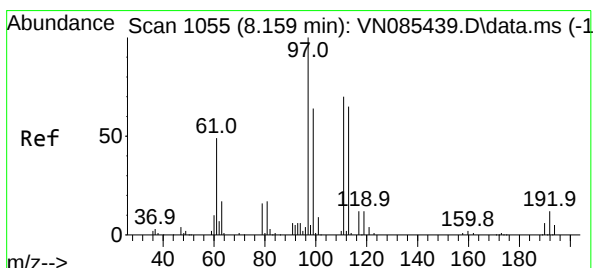
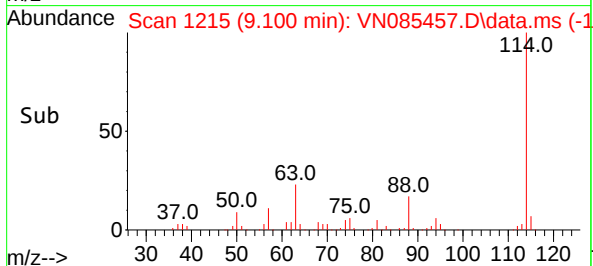
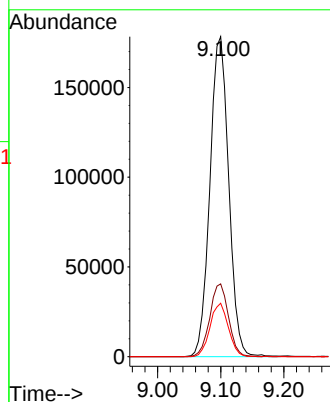
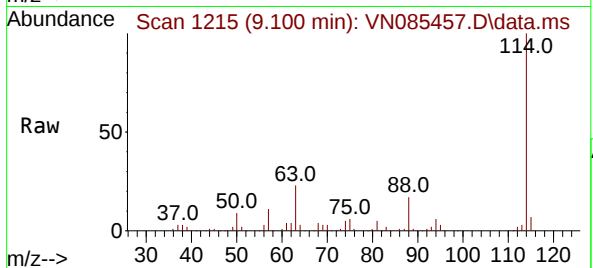
Tgt Ion:114 Resp: 368463

Ion Ratio Lower Upper

114 100

63 22.7 0.0 47.6

88 16.7 0.0 32.6



#35

Dibromofluoromethane

Concen: 49.124 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085457.D

Acq: 15 Jan 2025 13:25

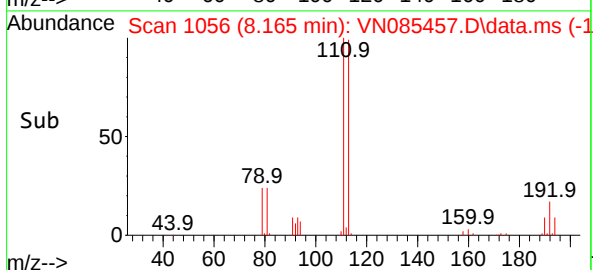
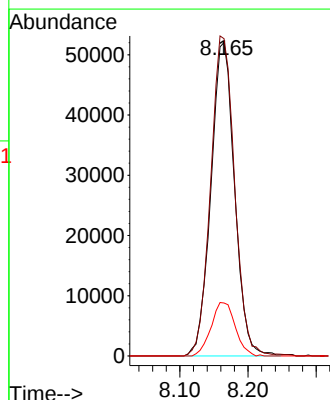
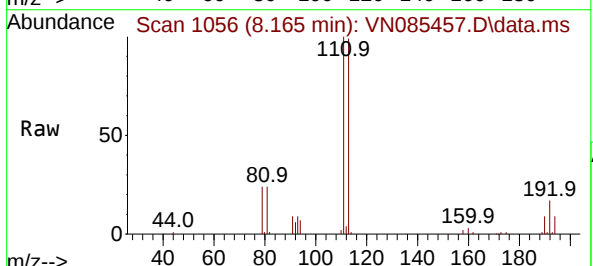
Tgt Ion:113 Resp: 125571

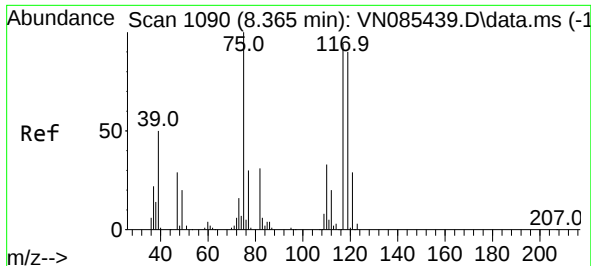
Ion Ratio Lower Upper

113 100

111 103.4 82.7 124.1

192 17.4 14.3 21.5





#36

1,1-Dichloropropene

Concen: 5.140 ug/l

RT: 8.218 min Scan# 1

Delta R.T. -0.147 min

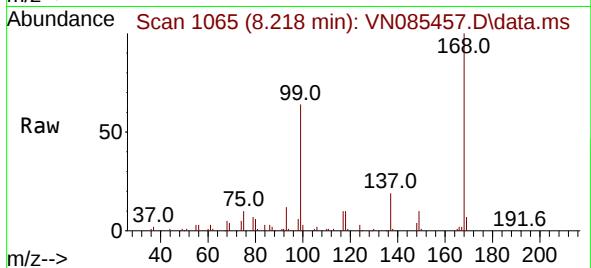
Lab File: VN085457.D

Acq: 15 Jan 2025 13:25

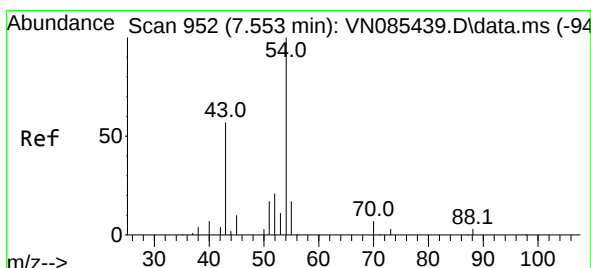
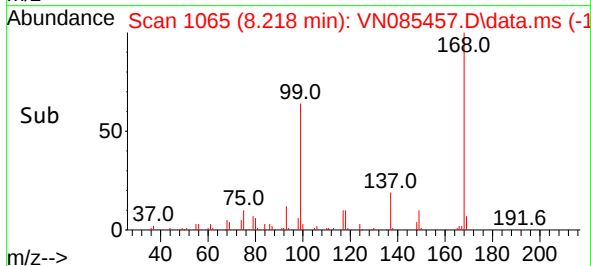
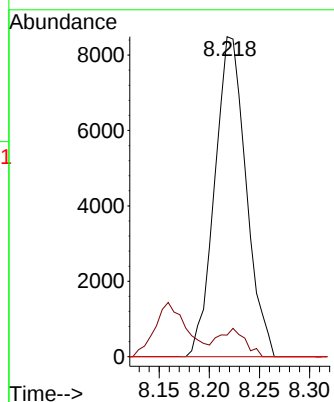
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	75	Resp:	18440
Ion	Ratio	Lower	Upper
75	100		
110	7.4	16.5	49.5#
77	0.0	24.4	36.6#



#37

Ethyl Acetate

Concen: 1.014 ug/l

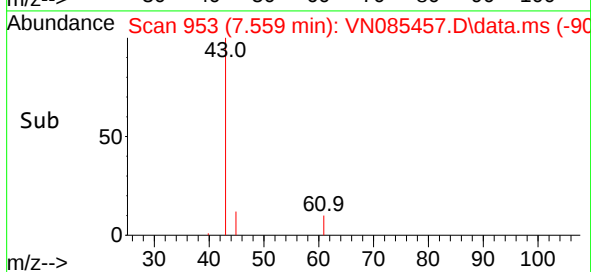
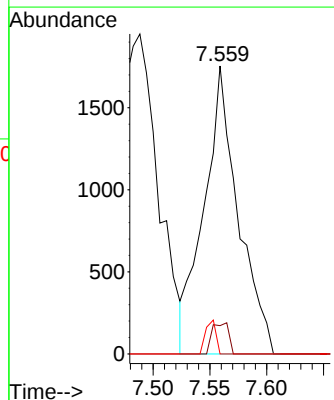
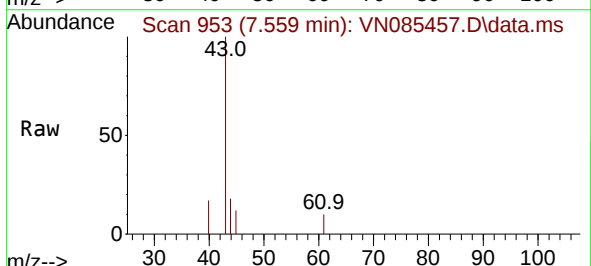
RT: 7.559 min Scan# 953

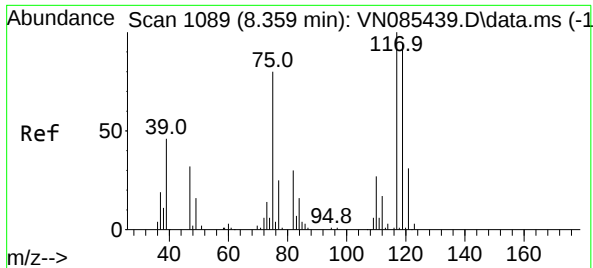
Delta R.T. 0.006 min

Lab File: VN085457.D

Acq: 15 Jan 2025 13:25

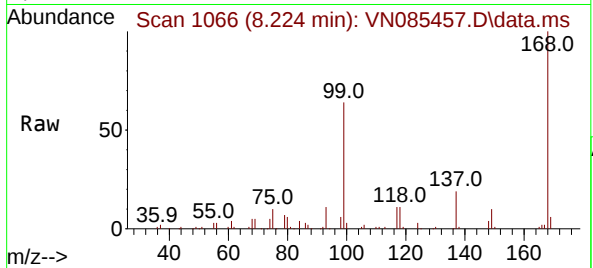
Tgt Ion:	43	Resp:	3672
Ion	Ratio	Lower	Upper
43	100		
61	5.2	10.9	16.3#
70	3.5	7.5	11.3#



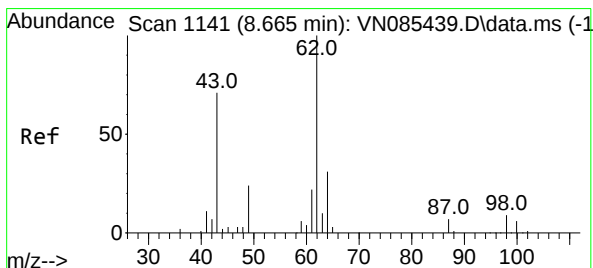
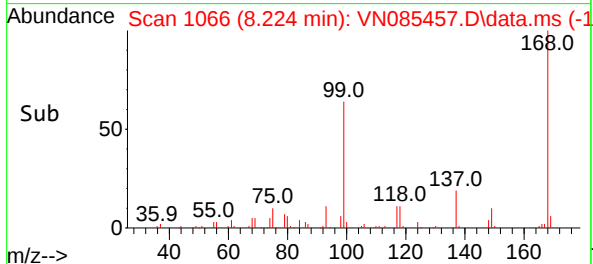
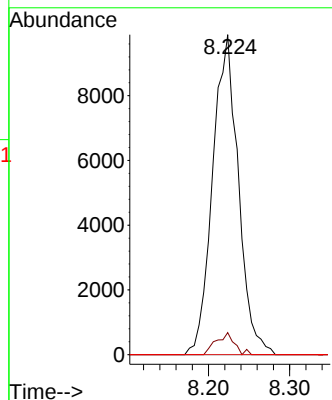


#38
Carbon Tetrachloride
Concen: 5.297 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN085457.D
Acq: 15 Jan 2025 13:25

Instrument :
MSVOA_N
ClientSampleId :

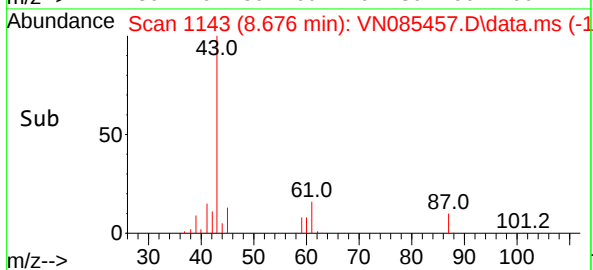
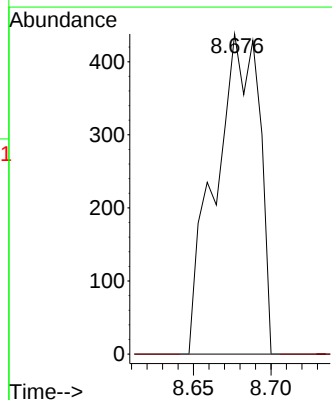
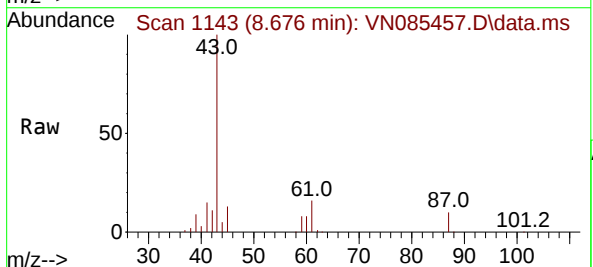


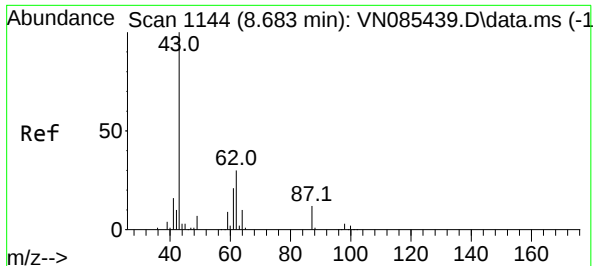
Tgt Ion:117 Resp: 21756
Ion Ratio Lower Upper
117 100
119 6.9 75.4 113.2#
121 0.0 24.6 37.0#



#42
1,2-Dichloroethane
Concen: 0.214 ug/l
RT: 8.676 min Scan# 1143
Delta R.T. 0.012 min
Lab File: VN085457.D
Acq: 15 Jan 2025 13:25

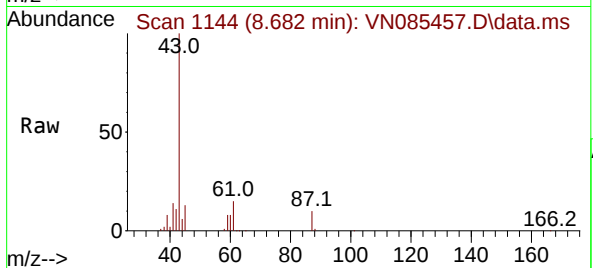
Tgt Ion: 62 Resp: 867
Ion Ratio Lower Upper
62 100
98 0.0 0.0 17.0



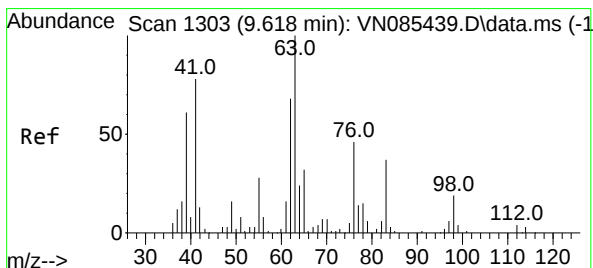
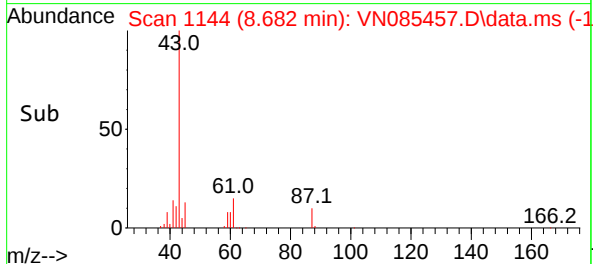
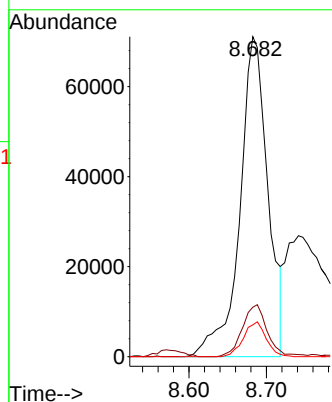


#43
Isopropyl Acetate
Concen: 30.842 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN085457.D
Acq: 15 Jan 2025 13:25

Instrument :
MSVOA_N
ClientSampleId :

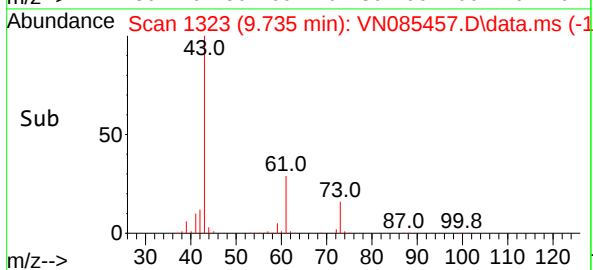
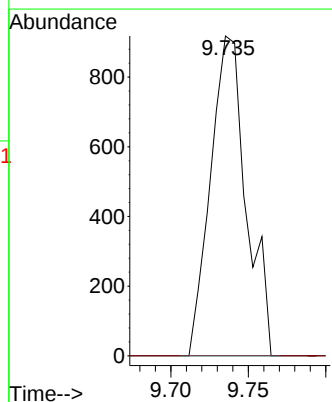
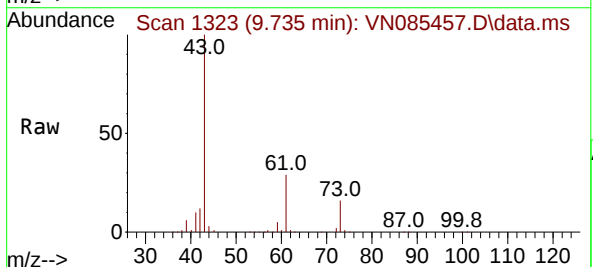


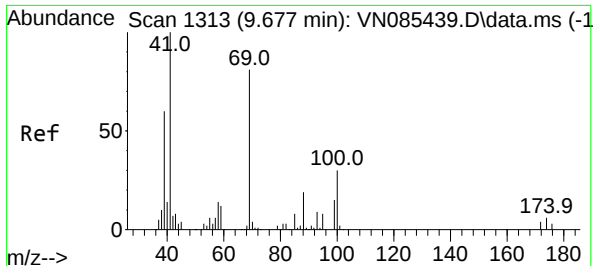
Tgt Ion: 43 Resp: 178956
Ion Ratio Lower Upper
43 100
61 14.5 20.7 31.1#
87 8.8 9.8 14.8#



#45
1,2-Dichloropropane
Concen: 0.535 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.117 min
Lab File: VN085457.D
Acq: 15 Jan 2025 13:25

Tgt Ion: 63 Resp: 1473
Ion Ratio Lower Upper
63 100
65 0.0 25.6 38.4#

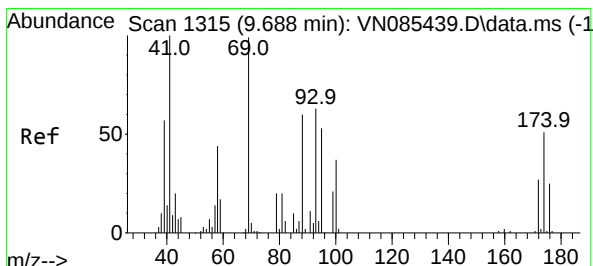
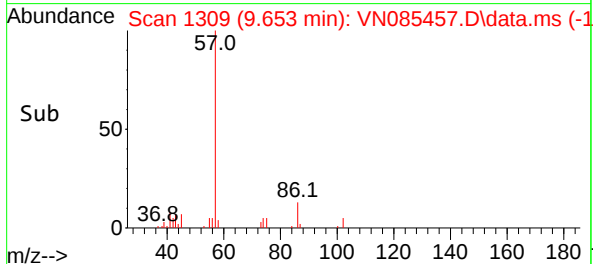
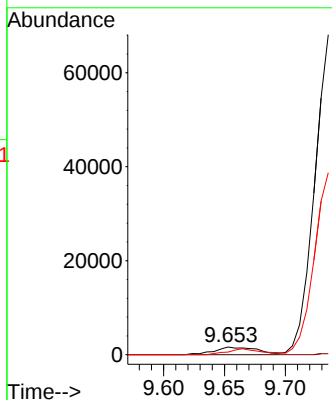
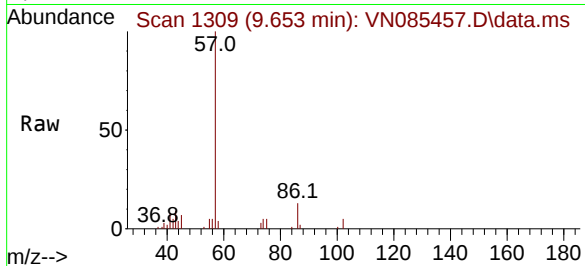




#48
Methyl methacrylate
Concen: 1.510 ug/l
RT: 9.653 min Scan# 1309
Delta R.T. -0.024 min
Lab File: VN085457.D
Acq: 15 Jan 2025 13:25

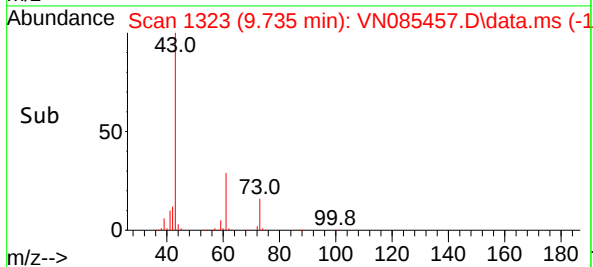
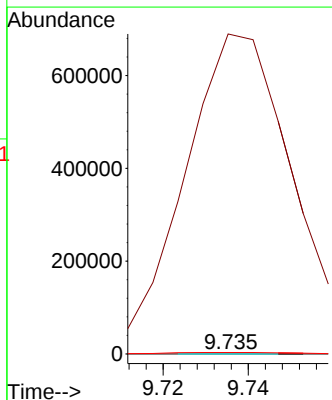
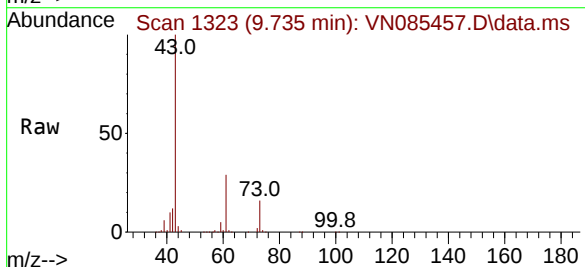
Instrument :
MSVOA_N
ClientSampleId :

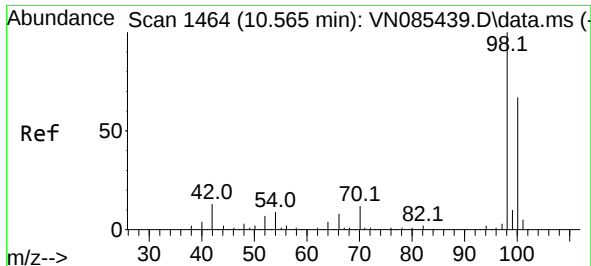
Tgt Ion: 41 Resp: 3942
Ion Ratio Lower Upper
41 100
69 0.0 64.7 97.1#
39 60.6 49.0 73.6



#49
1,4-Dioxane
Concen: 1.228 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.047 min
Lab File: VN085457.D
Acq: 15 Jan 2025 13:25

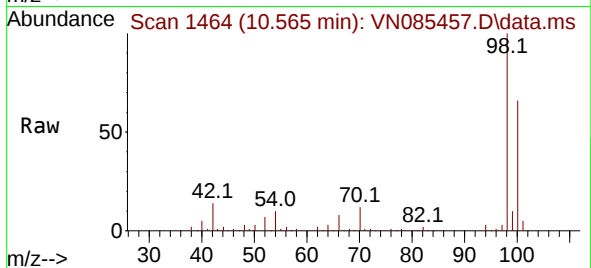
Tgt Ion: 88 Resp: 54
Ion Ratio Lower Upper
88 100
43 2302074.1 26.6 39.8#
58 12951.9 59.5 89.3#



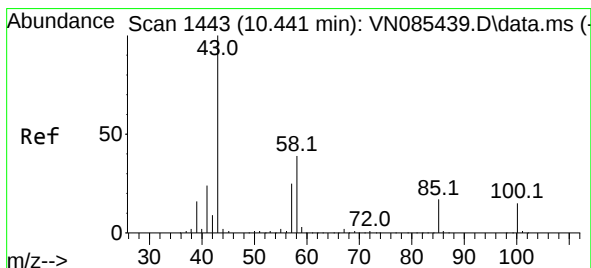
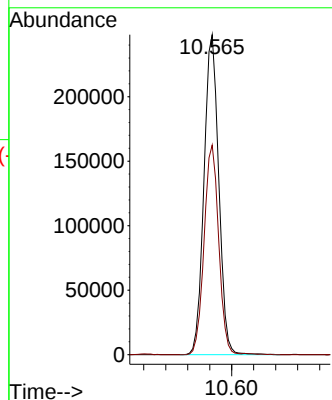
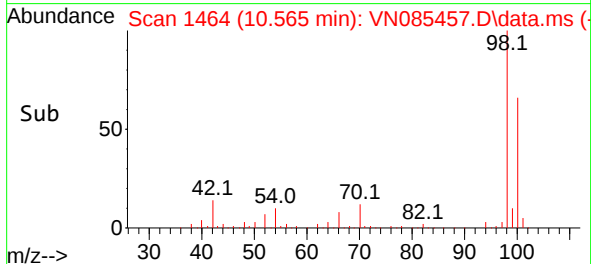


#50
Toluene-d8
Concen: 50.791 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085457.D
Acq: 15 Jan 2025 13:25

Instrument :
MSVOA_N
ClientSampleId :

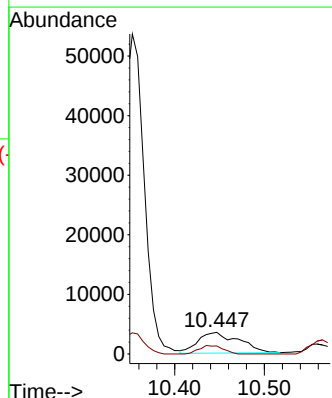
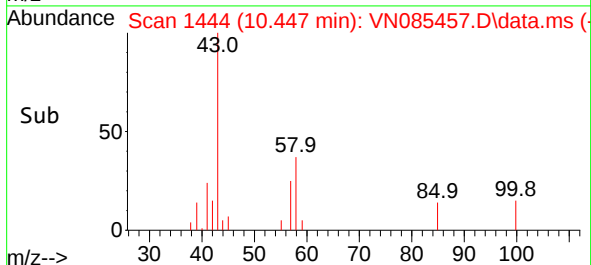
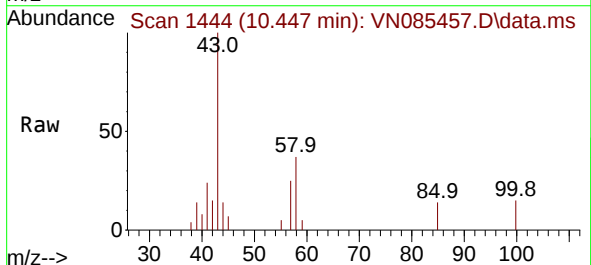


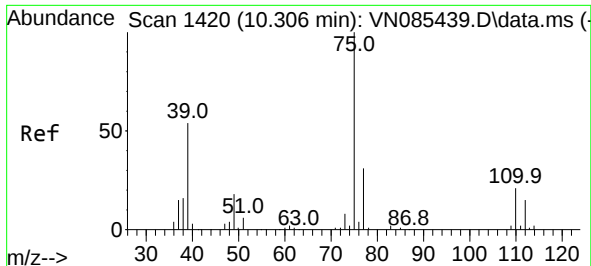
Tgt Ion: 98 Resp: 461293
Ion Ratio Lower Upper
98 100
100 65.0 52.2 78.4



#51
4-Methyl-2-Pentanone
Concen: 3.290 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN085457.D
Acq: 15 Jan 2025 13:25

Tgt Ion: 43 Resp: 11078
Ion Ratio Lower Upper
43 100
58 23.7 30.5 45.7#

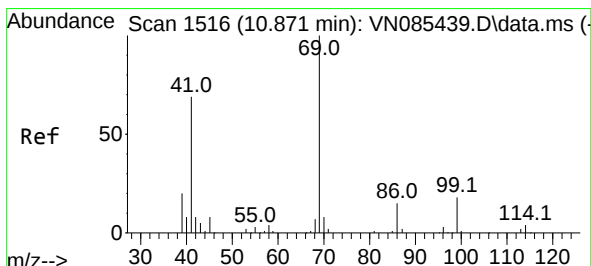
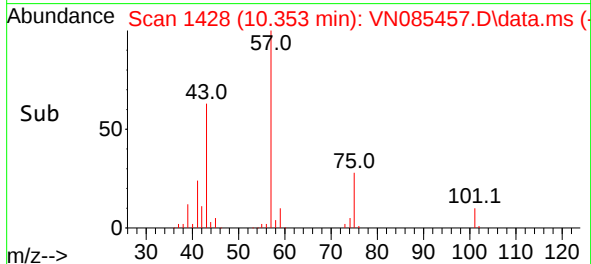
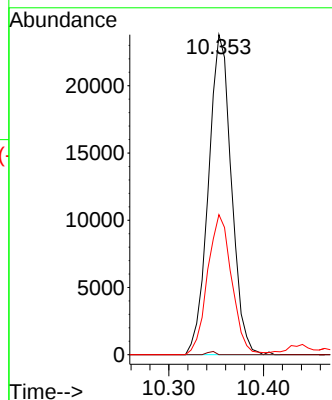
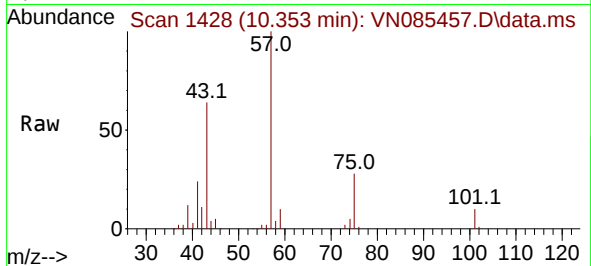




#54
cis-1,3-Dichloropropene
Concen: 9.789 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN085457.D
Acq: 15 Jan 2025 13:25

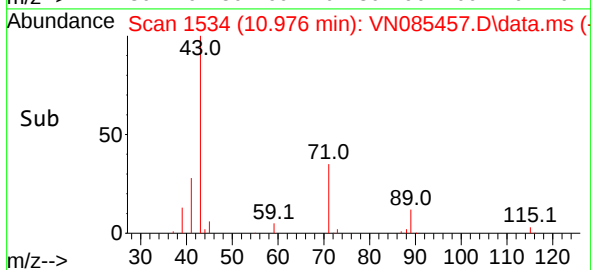
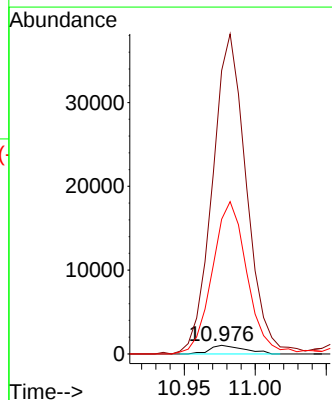
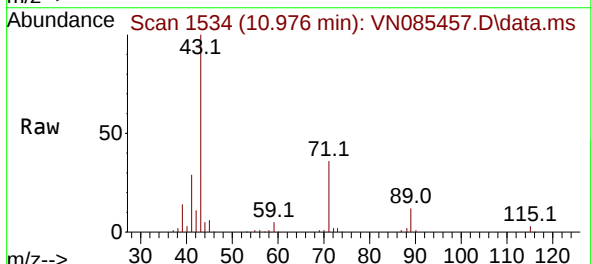
Instrument :
MSVOA_N
ClientSampleId :

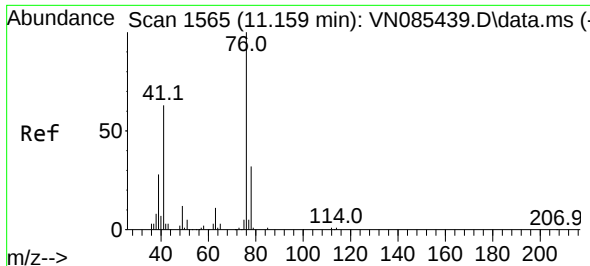
Tgt Ion: 75 Resp: 39995
Ion Ratio Lower Upper
75 100
77 0.0 25.0 37.4#
39 43.7 43.1 64.7



#56
Ethyl methacrylate
Concen: 2.331 ug/l
RT: 10.976 min Scan# 1534
Delta R.T. 0.105 min
Lab File: VN085457.D
Acq: 15 Jan 2025 13:25

Tgt Ion: 69 Resp: 1731
Ion Ratio Lower Upper
69 100
41 3676.7 54.6 82.0#
39 1802.1 32.4 48.6#





#57

1,3-Dichloropropane

Concen: 1.352 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN085457.D

Acq: 15 Jan 2025 13:25

Instrument :

MSVOA_N

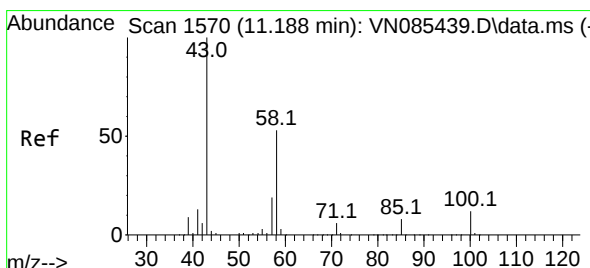
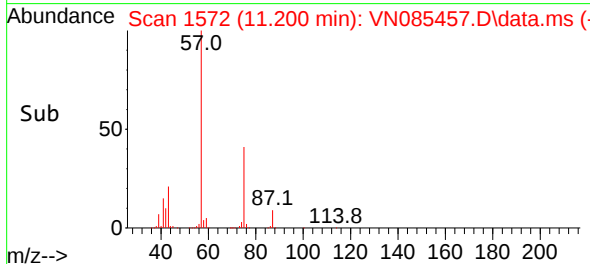
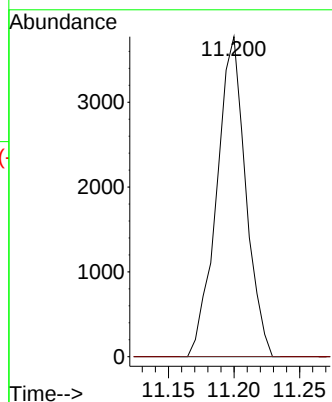
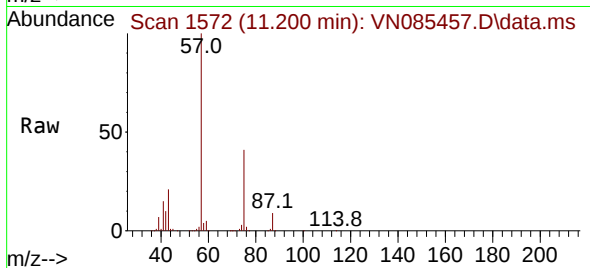
ClientSampleId :

Tgt Ion: 76 Resp: 5810

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 28.117 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.012 min

Lab File: VN085457.D

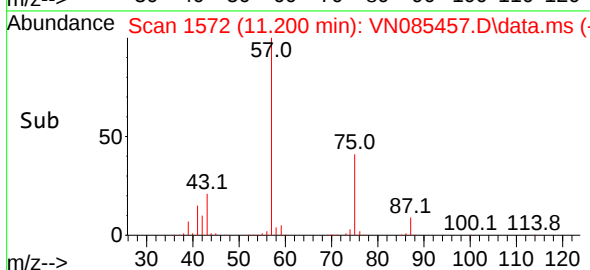
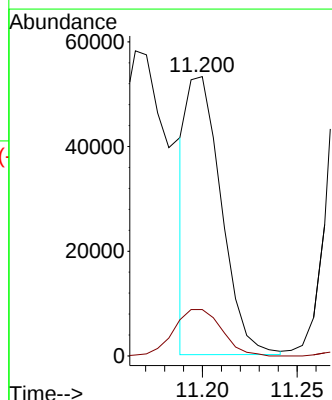
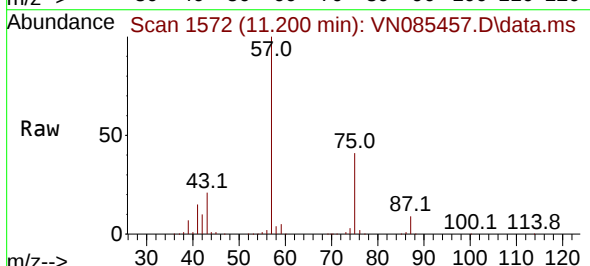
Acq: 15 Jan 2025 13:25

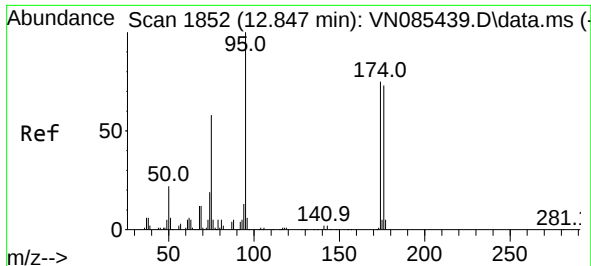
Tgt Ion: 43 Resp: 66614

Ion Ratio Lower Upper

43 100

58 23.6 26.2 78.6#

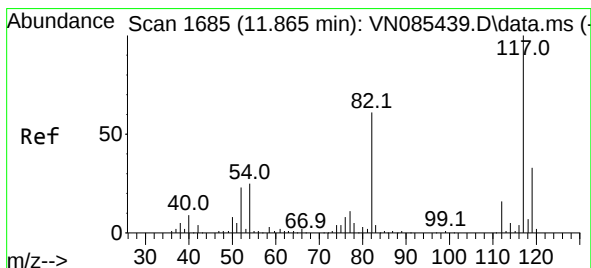
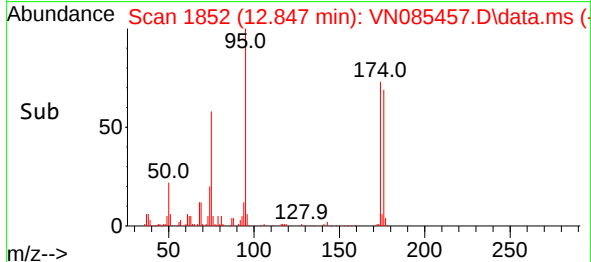
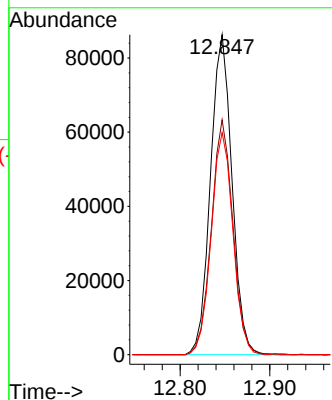
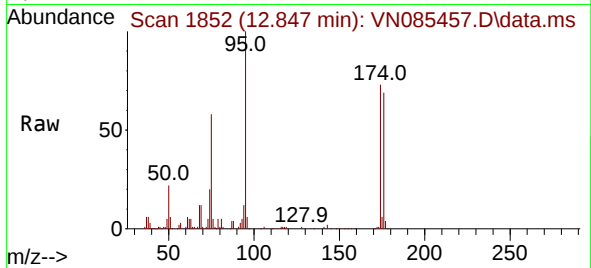




#62
4-Bromofluorobenzene
Concen: 46.148 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085457.D
Acq: 15 Jan 2025 13:25

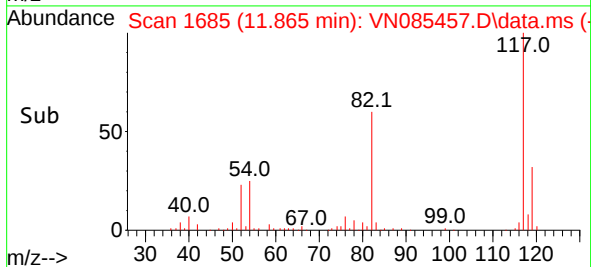
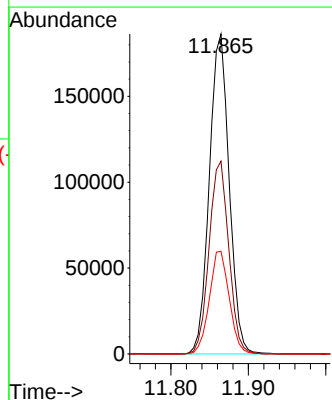
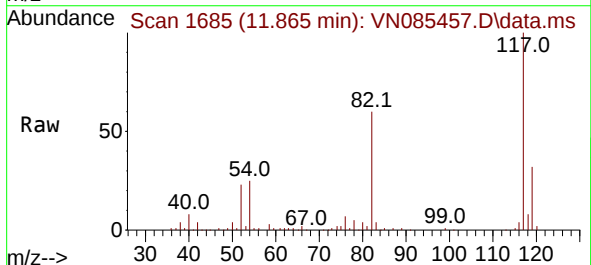
Instrument :
MSVOA_N
ClientSampleId :

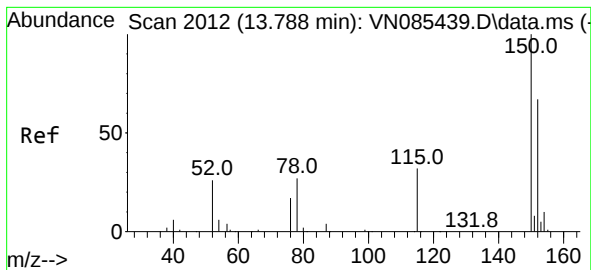
Tgt Ion: 95 Resp: 143372
Ion Ratio Lower Upper
95 100
174 73.6 0.0 145.0
176 70.2 0.0 142.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN085457.D
Acq: 15 Jan 2025 13:25

Tgt Ion: 117 Resp: 331245
Ion Ratio Lower Upper
117 100
82 60.3 48.6 72.8
119 32.1 26.6 39.8

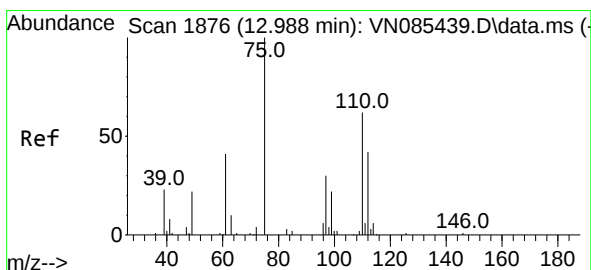
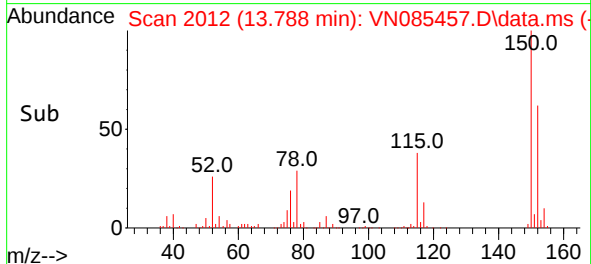
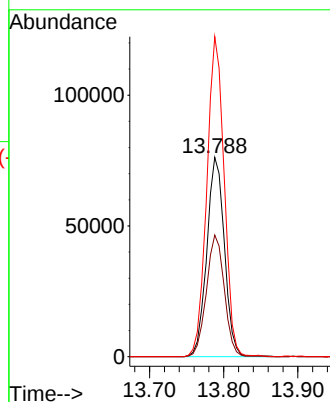
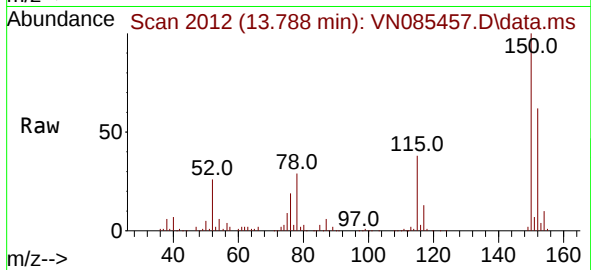




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN085457.D
Acq: 15 Jan 2025 13:25

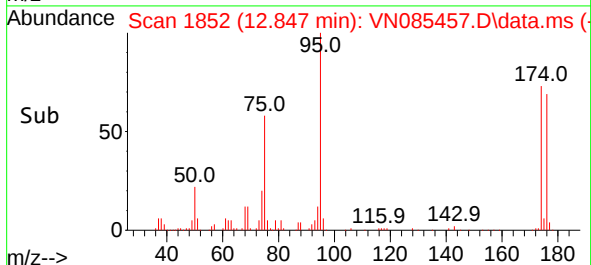
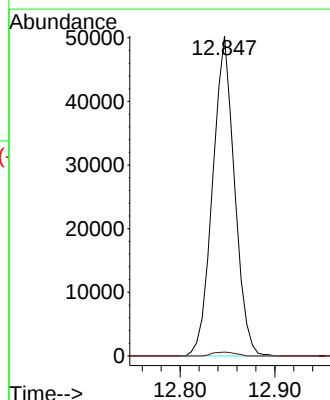
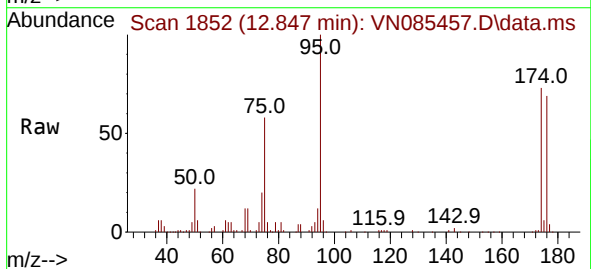
Instrument :
MSVOA_N
ClientSampleId :

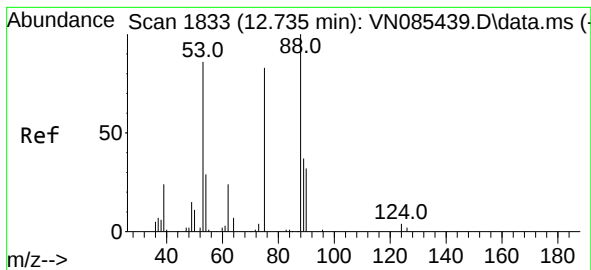
Tgt Ion:152 Resp: 126057
Ion Ratio Lower Upper
152 100
115 62.0 31.1 93.3
150 157.8 0.0 343.6



#76
1,2,3-Trichloropropane
Concen: 31.471 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN085457.D
Acq: 15 Jan 2025 13:25

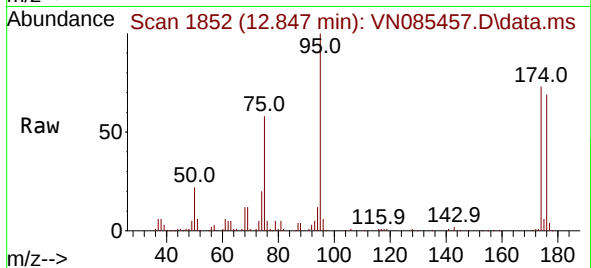
Tgt Ion: 75 Resp: 80633
Ion Ratio Lower Upper
75 100
77 1.3 109.7 329.2#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 85.147 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN085457.D
 Acq: 15 Jan 2025 13:25

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 80633
 Ion Ratio Lower Upper
 75 100
 53 0.1 95.6 143.4#
 89 0.0 37.0 55.6#

