

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN013125\
 Data File : VN085614.D
 Acq On : 31 Jan 2025 20:05
 Operator : JC\MD
 Sample : Q1215-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 31 22:35:14 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

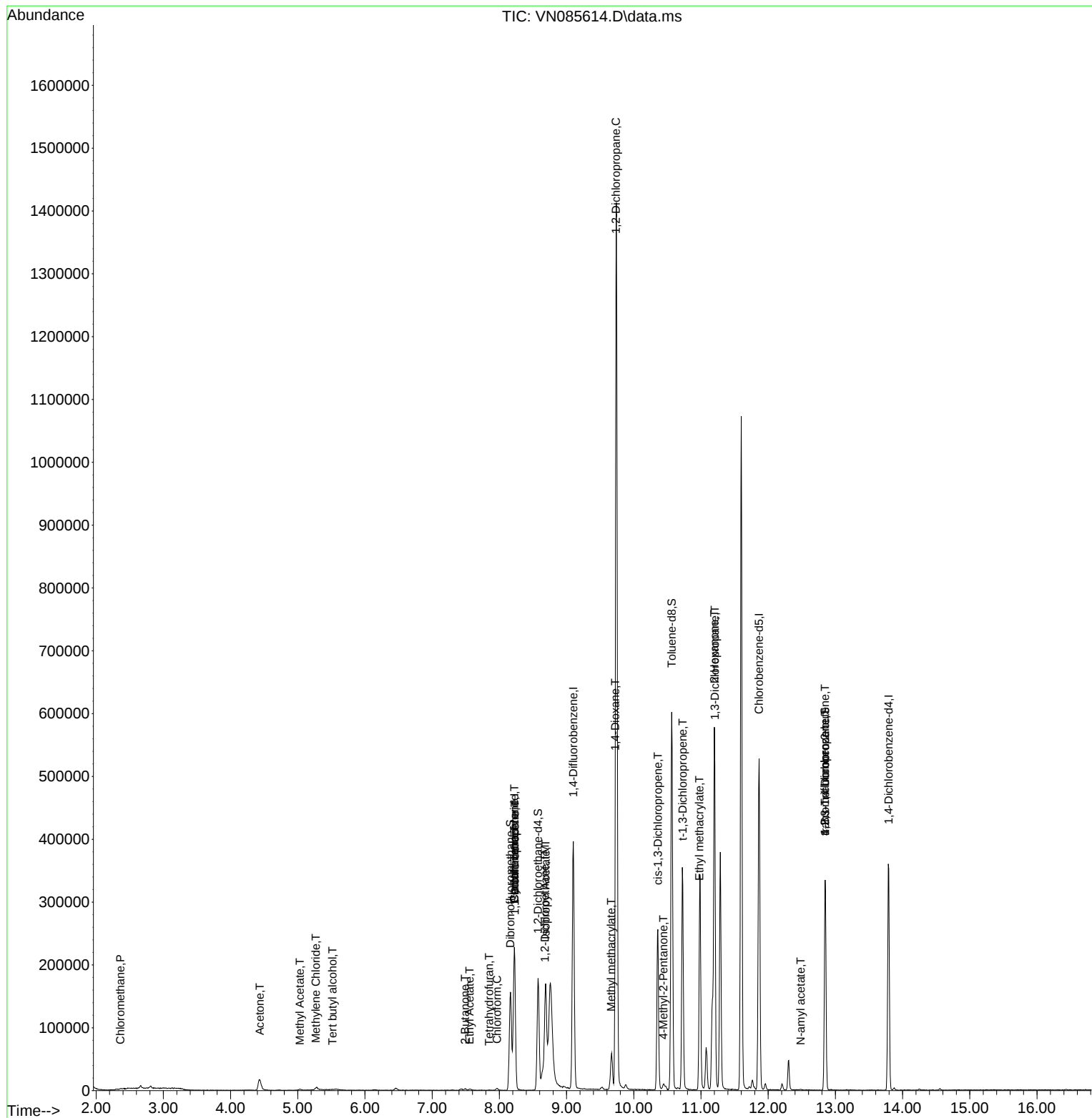
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	150642	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	317464	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	287869	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	92759	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	148102	60.905	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 121.820%	
35) Dibromofluoromethane	8.165	113	110123	50.001	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 100.000%	
50) Toluene-d8	10.565	98	405836	51.863	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 103.720%	
62) 4-Bromofluorobenzene	12.847	95	111608	41.695	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 83.380%	
Target Compounds						Qvalue
3) Chloromethane	2.359	50	499	0.226	ug/l #	41
11) Tert butyl alcohol	5.518	59	66	0.237	ug/l #	71
16) Acetone	4.436	43	34560	43.987	ug/l	92
18) Methyl Acetate	5.030	43	3292	1.378	ug/l #	85
20) Methylene Chloride	5.271	84	2625	1.350	ug/l #	88
25) 2-Butanone	7.488	43	4208	3.639	ug/l #	88
29) Tetrahydrofuran	7.847	42	396	0.540	ug/l #	34
30) Chloroform	7.965	83	3358	0.915	ug/l	90
31) Cyclohexane	8.224	56	4180	1.354	ug/l #	14
36) 1,1-Dichloropropene	8.229	75	14137	4.574	ug/l #	49
37) Ethyl Acetate	7.559	43	3628	1.163	ug/l #	80
38) Carbon Tetrachloride	8.224	117	16825	4.755	ug/l #	18
42) 1,2-Dichloroethane	8.676	62	1079	0.308	ug/l #	76
43) Isopropyl Acetate	8.688	43	211916	42.389	ug/l #	79
45) 1,2-Dichloropropane	9.735	63	1593	0.671	ug/l #	43
48) Methyl methacrylate	9.665	41	4237	1.883	ug/l #	45
49) 1,4-Dioxane	9.723	88	68	1.795	ug/l #	21
51) 4-Methyl-2-Pentanone	10.441	43	6131	2.113	ug/l	99
53) t-1,3-Dichloropropene	10.729	75	810	0.246	ug/l #	82
54) cis-1,3-Dichloropropene	10.359	75	41166	11.694	ug/l #	68
56) Ethyl methacrylate	10.976	69	2430	2.582	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	5667	1.530	ug/l #	43
59) 2-Hexanone	11.200	43	73107	35.815	ug/l #	58
74) N-amyl acetate	12.482	43	1321	0.469	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	61975	32.872	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	61975	88.937	ug/l #	3

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

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Instrument :
MSVOA_N
ClientSampleId :

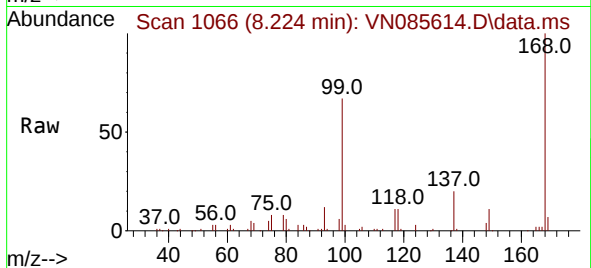
Quant Time: Jan 31 22:35:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration



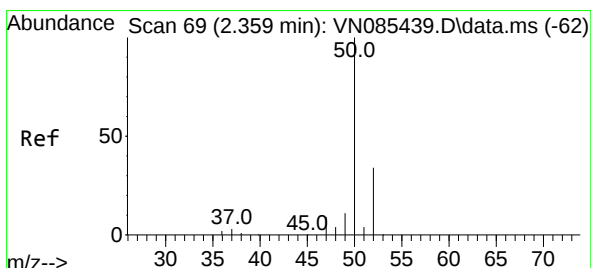
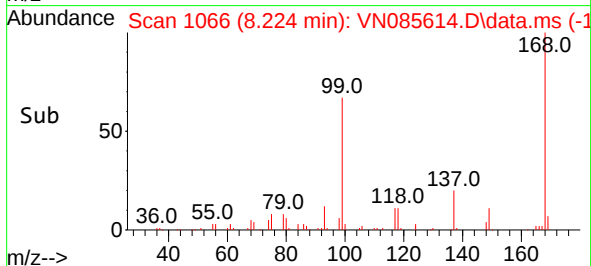
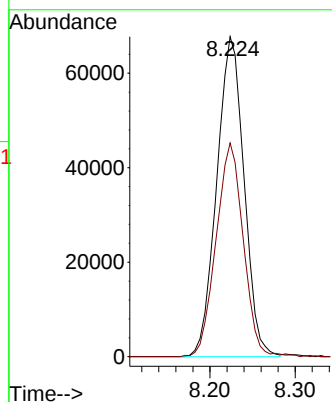


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085614.D
Acq: 31 Jan 2025 20:05

Instrument :
MSVOA_N
ClientSampleId :

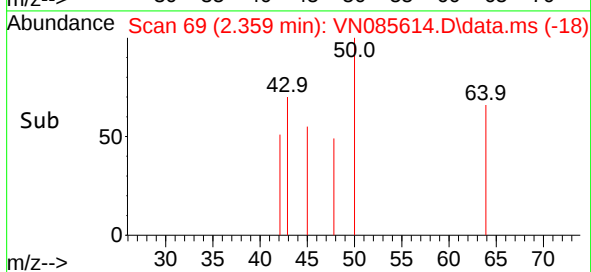
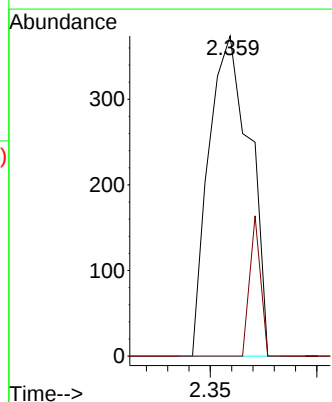
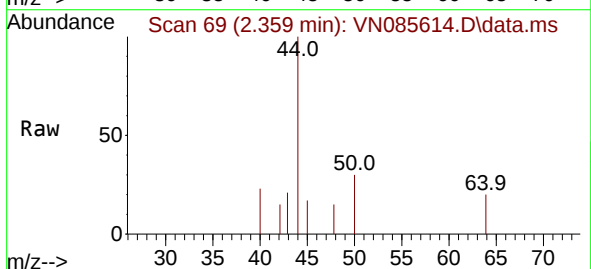


Tgt Ion:168 Resp: 150642
Ion Ratio Lower Upper
168 100
99 66.8 53.6 80.4



#3
Chloromethane
Concen: 0.226 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085614.D
Acq: 31 Jan 2025 20:05

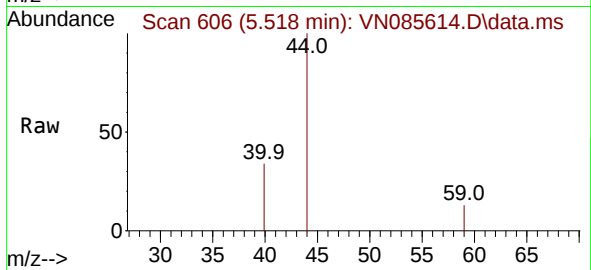
Tgt Ion: 50 Resp: 499
Ion Ratio Lower Upper
50 100
52 0.0 27.0 40.6#



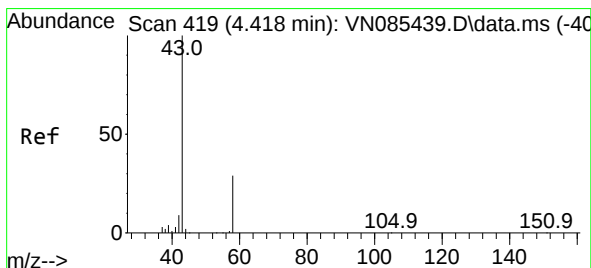
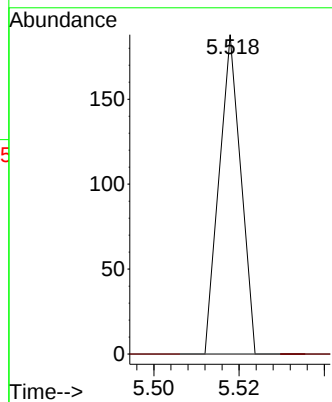
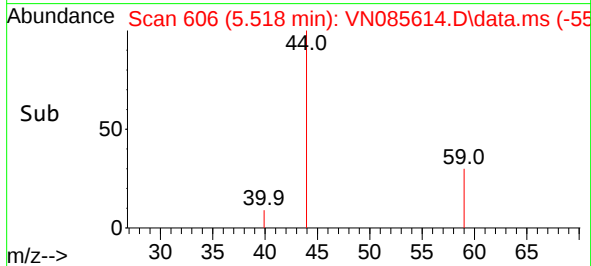


#11
Tert butyl alcohol
Concen: 0.237 ug/l
RT: 5.518 min Scan# 60
Delta R.T. 0.006 min
Lab File: VN085614.D
Acq: 31 Jan 2025 20:05

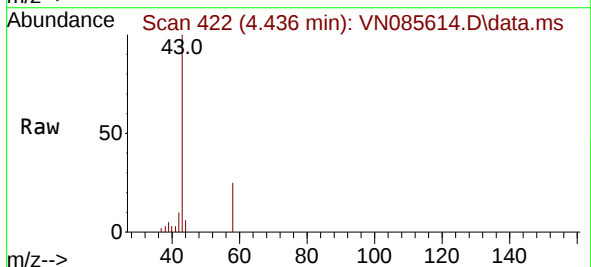
Instrument :
MSVOA_N
ClientSampleId :



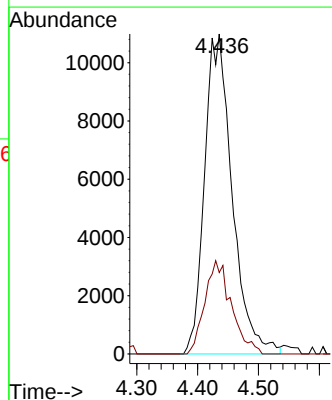
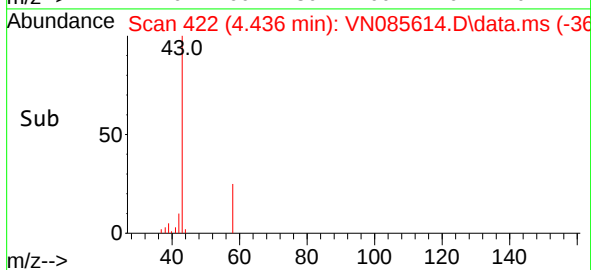
Tgt Ion: 59 Resp: 66
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#

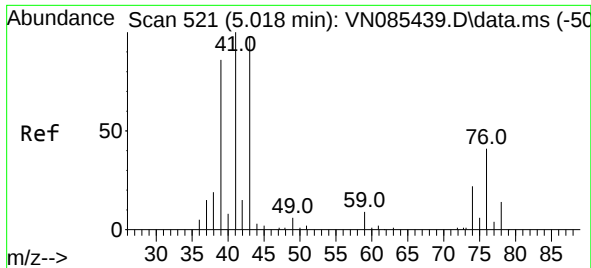


#16
Acetone
Concen: 43.987 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.017 min
Lab File: VN085614.D
Acq: 31 Jan 2025 20:05



Tgt Ion: 43 Resp: 34560
Ion Ratio Lower Upper
43 100
58 25.5 23.8 35.6

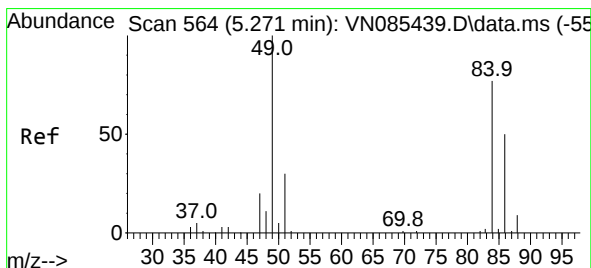
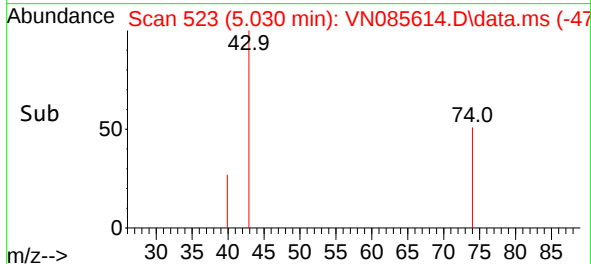
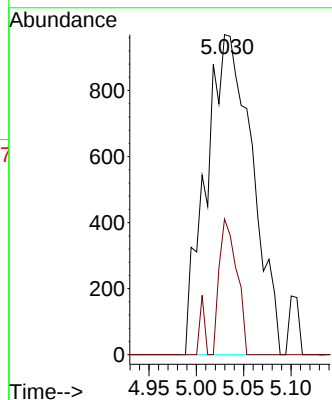
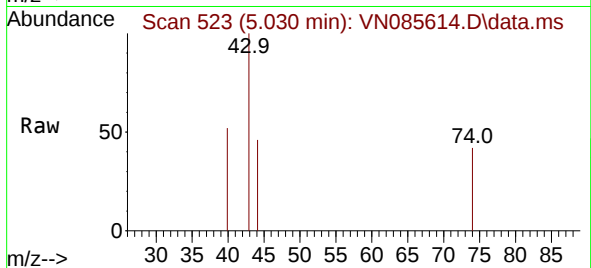




#18
Methyl Acetate
Concen: 1.378 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN085614.D
Acq: 31 Jan 2025 20:05

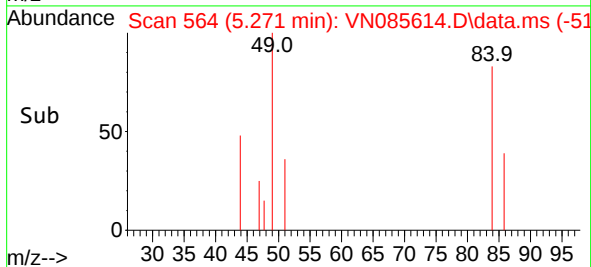
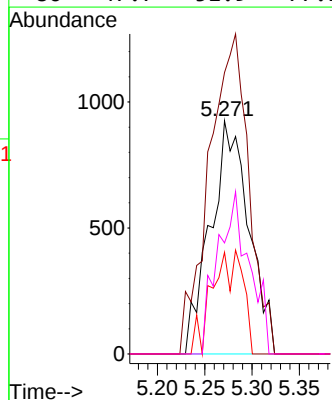
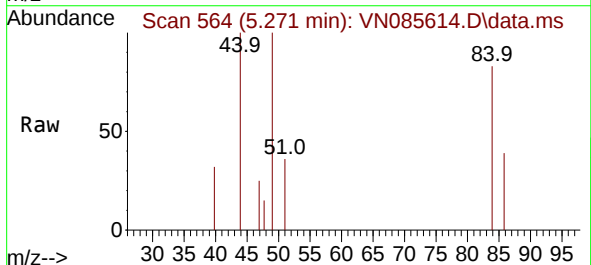
Instrument :
MSVOA_N
ClientSampleId :

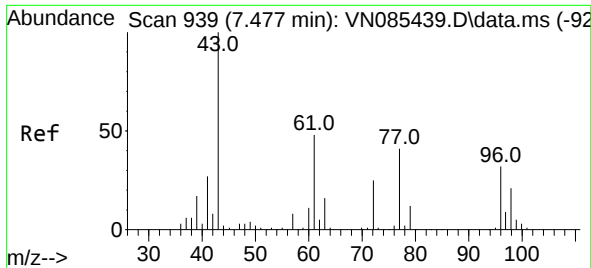
Tgt Ion: 43 Resp: 3292
Ion Ratio Lower Upper
43 100
74 16.1 18.6 28.0#



#20
Methylene Chloride
Concen: 1.350 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.000 min
Lab File: VN085614.D
Acq: 31 Jan 2025 20:05

Tgt Ion: 84 Resp: 2625
Ion Ratio Lower Upper
84 100
49 120.8 104.1 156.1
51 43.6 31.0 46.4
86 47.7 51.9 77.9#

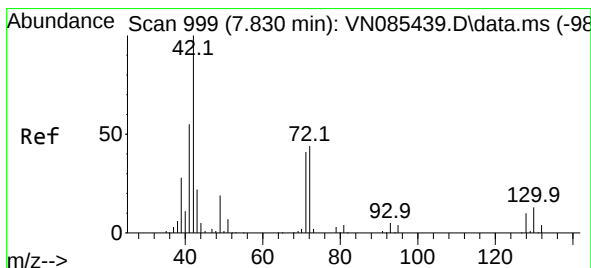
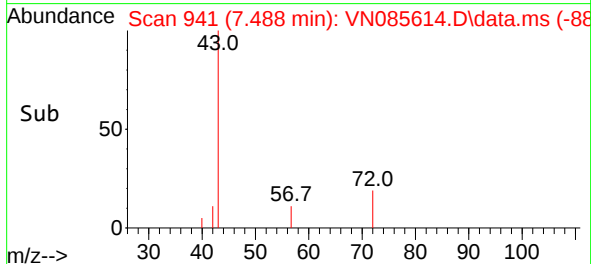
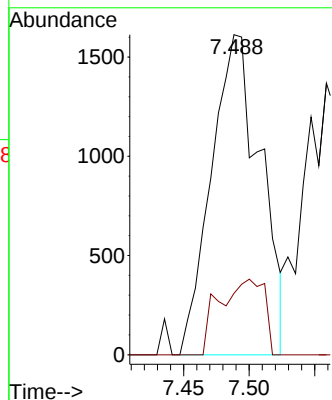
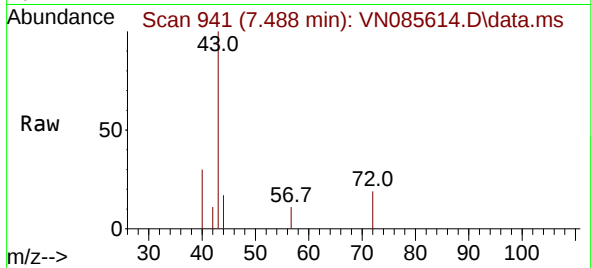




#25
2-Butanone
Concen: 3.639 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN085614.D
Acq: 31 Jan 2025 20:05

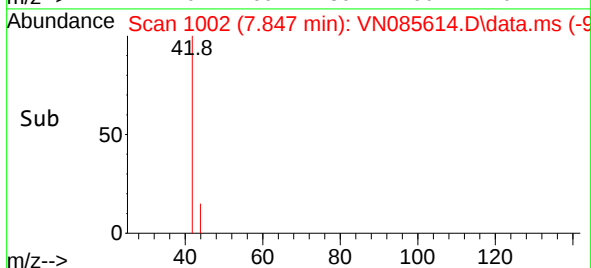
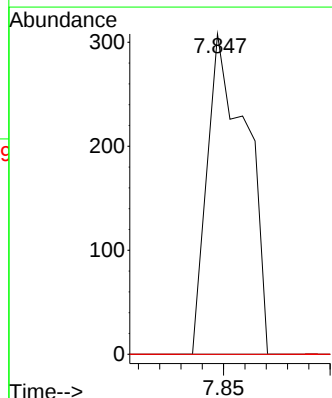
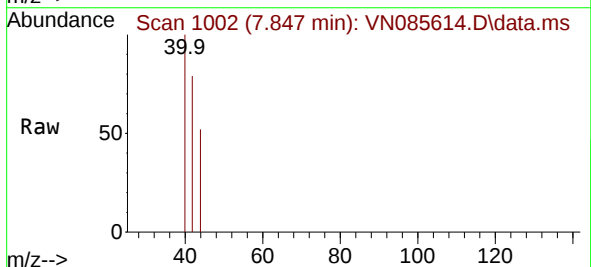
Instrument :
MSVOA_N
ClientSampleId :

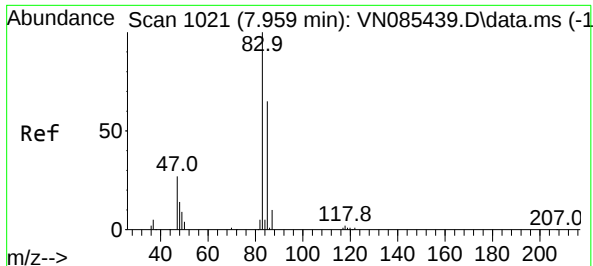
Tgt Ion: 43 Resp: 4208
Ion Ratio Lower Upper
43 100
72 19.2 20.2 30.4#



#29
Tetrahydrofuran
Concen: 0.540 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.017 min
Lab File: VN085614.D
Acq: 31 Jan 2025 20:05

Tgt Ion: 42 Resp: 396
Ion Ratio Lower Upper
42 100
72 0.0 34.2 51.2#
71 0.0 32.5 48.7#





#30

Chloroform

Concen: 0.915 ug/l

RT: 7.965 min Scan# 1066

Delta R.T. 0.006 min

Lab File: VN085614.D

Acq: 31 Jan 2025 20:05

Instrument :

MSVOA_N

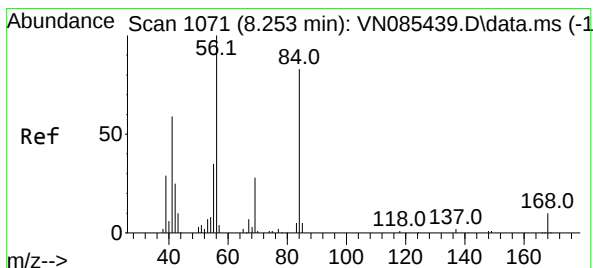
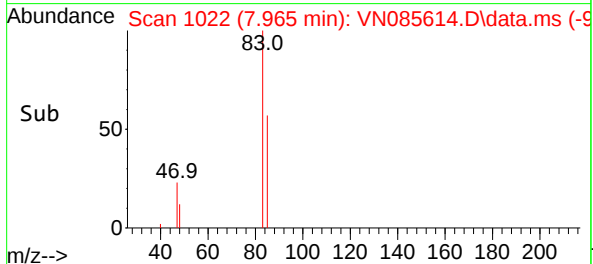
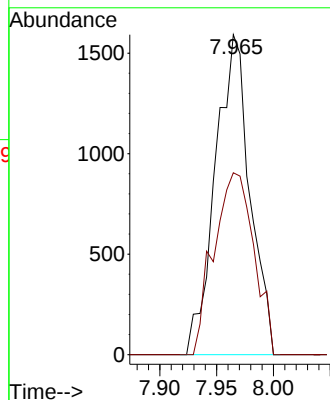
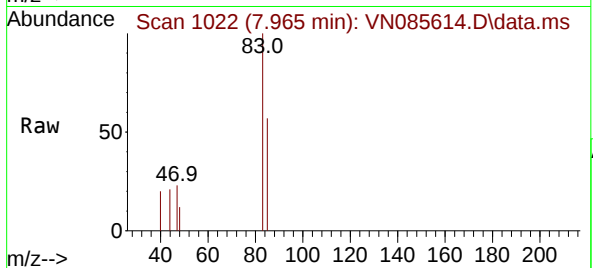
ClientSampleId :

Tgt Ion: 83 Resp: 3358

Ion Ratio Lower Upper

83 100

85 56.8 51.8 77.6



#31

Cyclohexane

Concen: 1.354 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.030 min

Lab File: VN085614.D

Acq: 31 Jan 2025 20:05

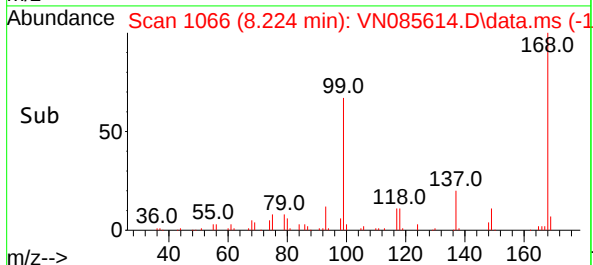
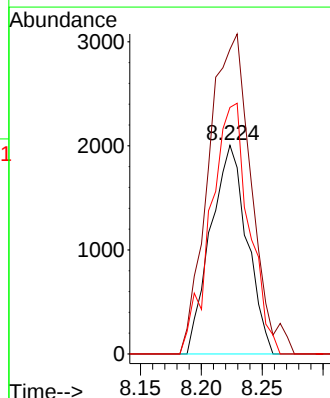
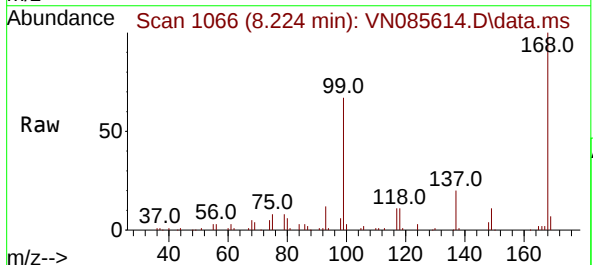
Tgt Ion: 56 Resp: 4180

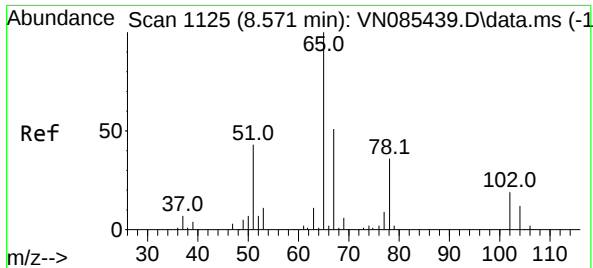
Ion Ratio Lower Upper

56 100

69 146.0 22.2 33.4#

84 118.2 66.4 99.6#

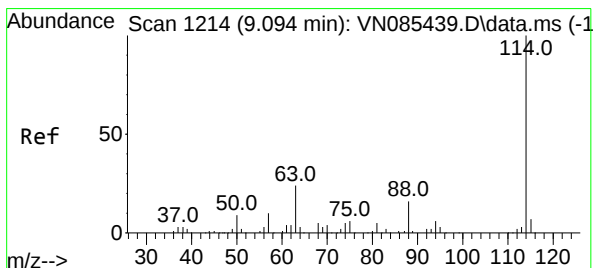
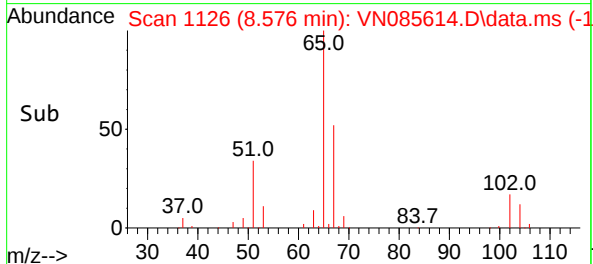
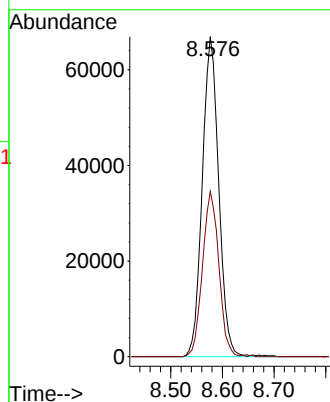
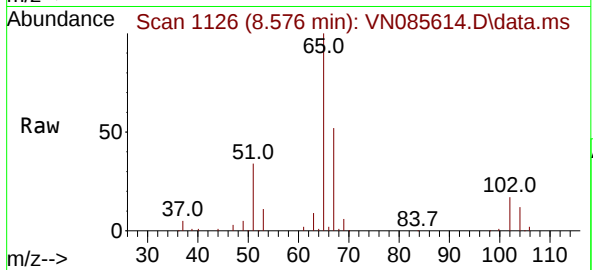




#33
1,2-Dichloroethane-d4
Concen: 60.905 ug/l
RT: 8.576 min Scan# 1125
Delta R.T. 0.006 min
Lab File: VN085614.D
Acq: 31 Jan 2025 20:05

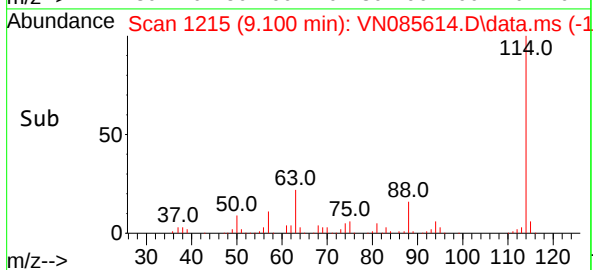
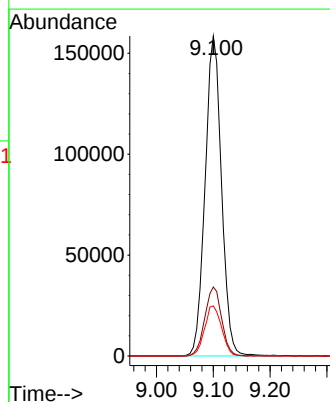
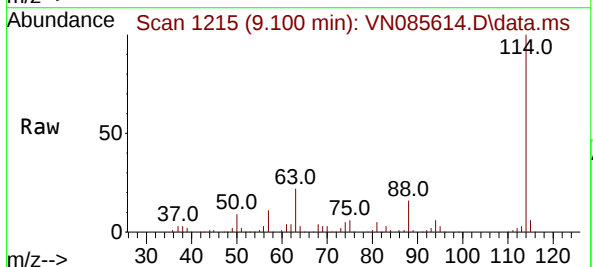
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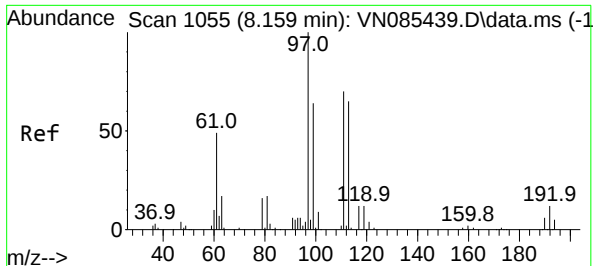
Tgt Ion: 65 Resp: 148102
Ion Ratio Lower Upper
65 100
67 51.3 0.0 101.6



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085614.D
Acq: 31 Jan 2025 20:05

Tgt Ion:114 Resp: 317464
Ion Ratio Lower Upper
114 100
63 21.5 0.0 47.6
88 15.7 0.0 32.6





#35

Dibromofluoromethane

Concen: 50.001 ug/l

RT: 8.165 min Scan# 110

Delta R.T. 0.006 min

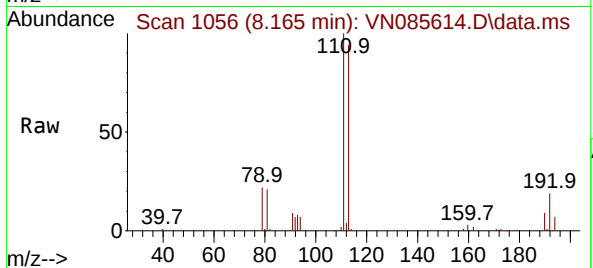
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Acq: 31 Jan 2025 20:05

Instrument :

MSVOA_N

ClientSampleId :



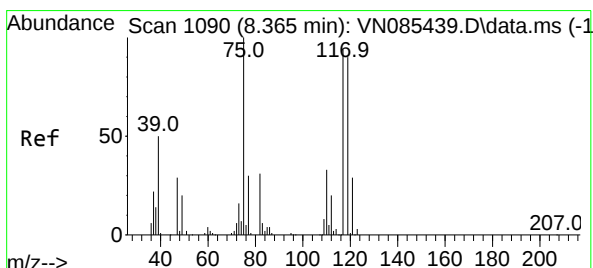
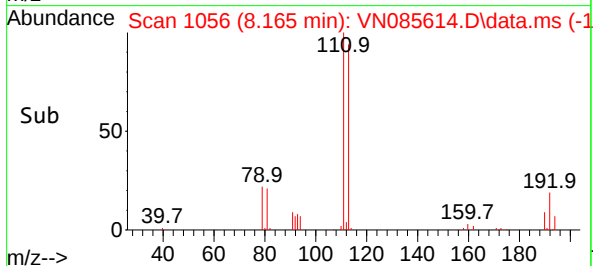
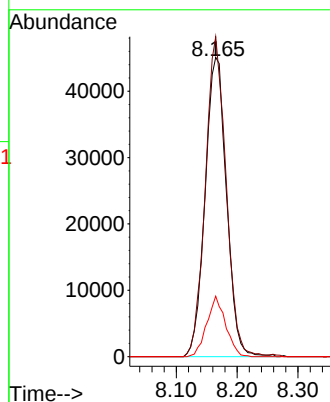
Tgt Ion:113 Resp: 110123

Ion Ratio Lower Upper

113 100

111 103.4 82.7 124.1

192 17.8 14.3 21.5



#36

1,1-Dichloropropene

Concen: 4.574 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.135 min

Lab File: VN085614.D

Acq: 31 Jan 2025 20:05

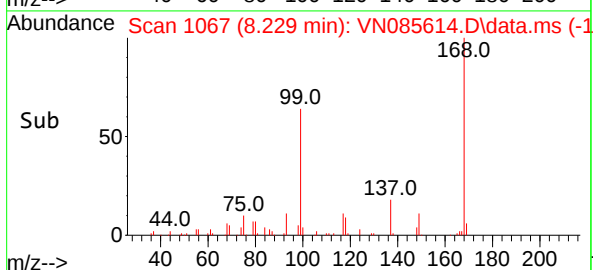
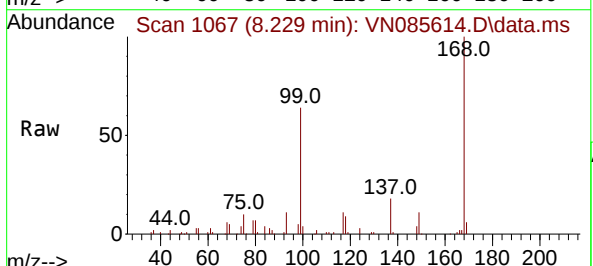
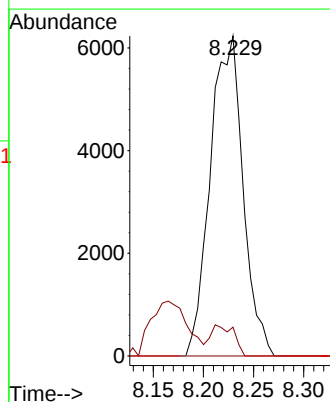
Tgt Ion: 75 Resp: 14137

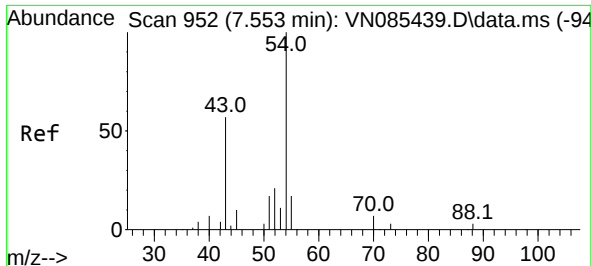
Ion Ratio Lower Upper

75 100

110 6.9 16.5 49.5#

77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 1.163 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.006 min

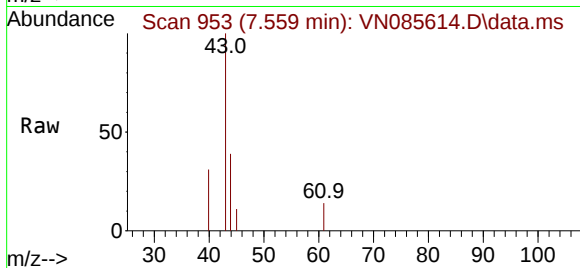
Lab File: VN085614.D

Acq: 31 Jan 2025 20:05

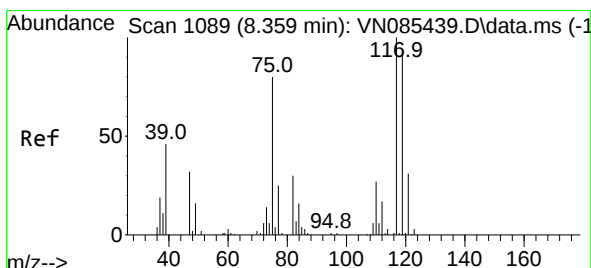
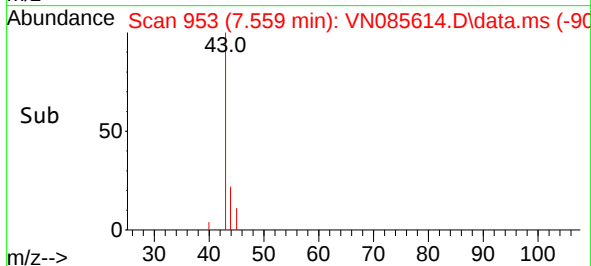
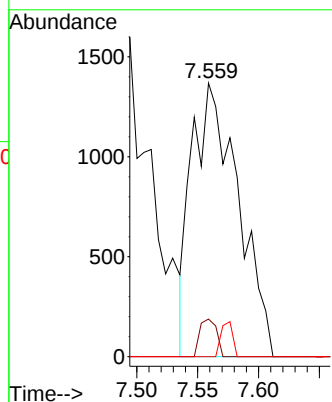
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	43	Resp:	3628
Ion Ratio	Lower	Upper	
43	100		
61	5.0	10.9	16.3#
70	3.2	7.5	11.3#



#38

Carbon Tetrachloride

Concen: 4.755 ug/l

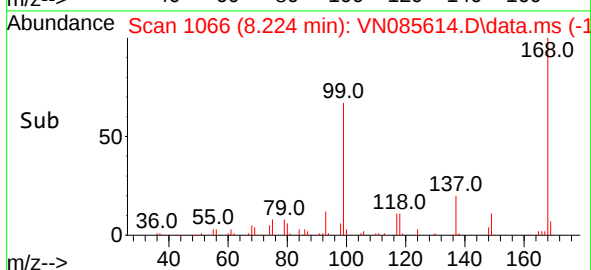
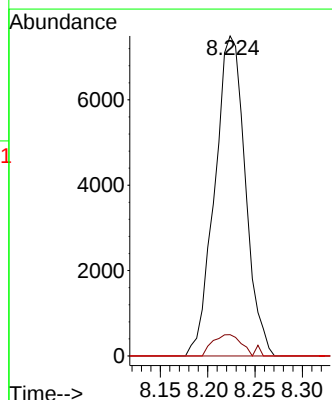
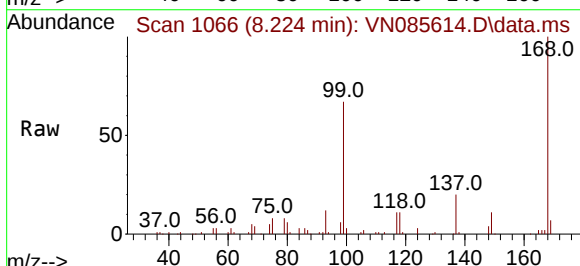
RT: 8.224 min Scan# 1066

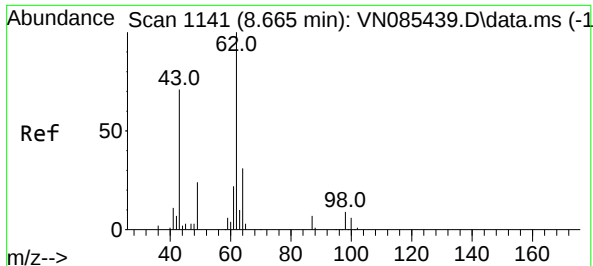
Delta R.T. -0.135 min

Lab File: VN085614.D

Acq: 31 Jan 2025 20:05

Tgt Ion:	117	Resp:	16825
Ion Ratio	Lower	Upper	
117	100		
119	6.7	75.4	113.2#
121	0.0	24.6	37.0#





#42

1,2-Dichloroethane

Concen: 0.308 ug/l

RT: 8.676 min Scan# 1143

Delta R.T. 0.012 min

Lab File: VN085614.D

Acq: 31 Jan 2025 20:05

Instrument :

MSVOA_N

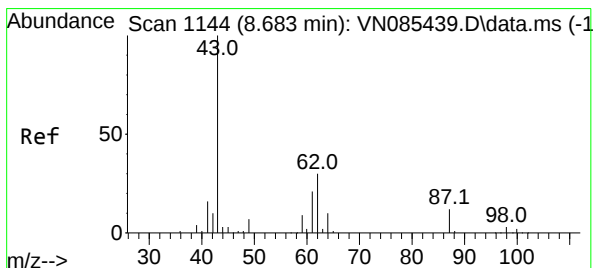
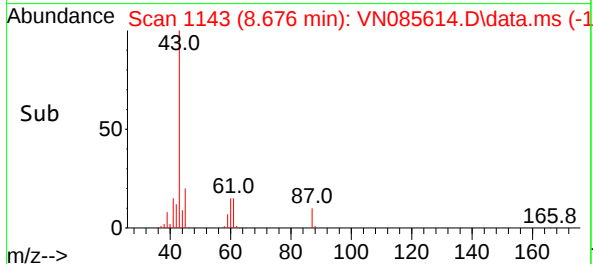
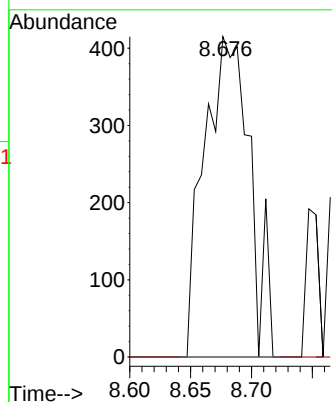
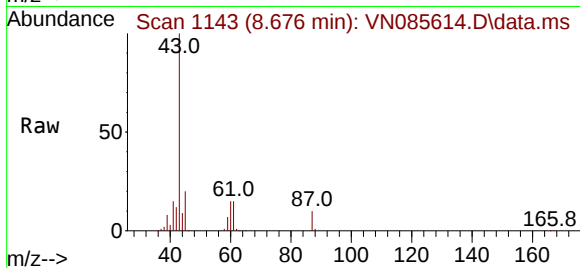
ClientSampleId :

Tgt Ion: 62 Resp: 1079

Ion Ratio Lower Upper

62 100

98 0.0 0.0 17.0



#43

Isopropyl Acetate

Concen: 42.389 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.006 min

Lab File: VN085614.D

Acq: 31 Jan 2025 20:05

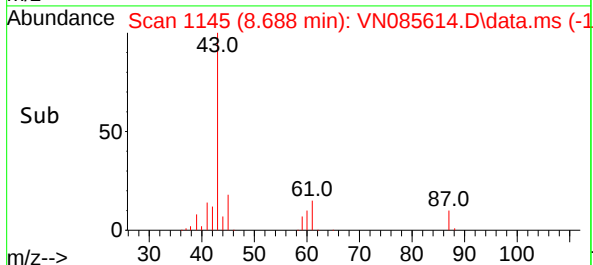
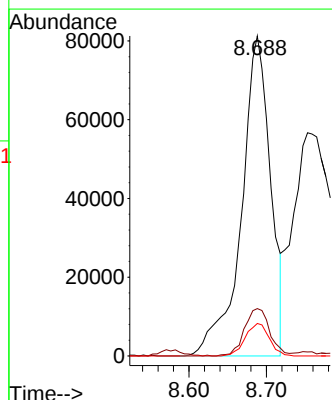
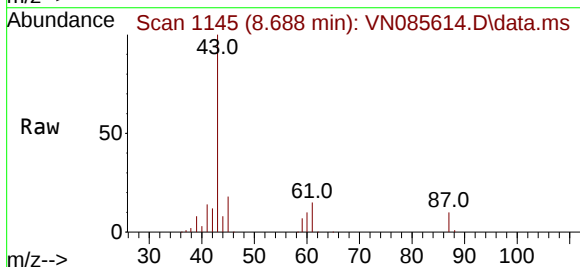
Tgt Ion: 43 Resp: 211916

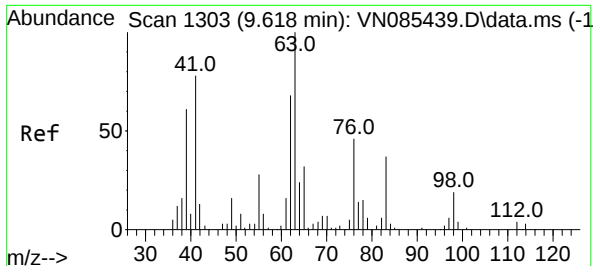
Ion Ratio Lower Upper

43 100

61 12.9 20.7 31.1#

87 8.3 9.8 14.8#





#45

1,2-Dichloropropane

Concen: 0.671 ug/l

RT: 9.735 min Scan# 11

Delta R.T. 0.117 min

Lab File: VN085614.D

Acq: 31 Jan 2025 20:05

Instrument :

MSVOA_N

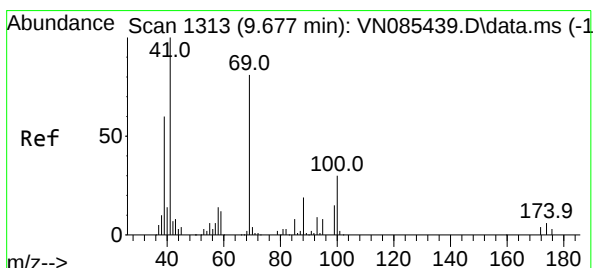
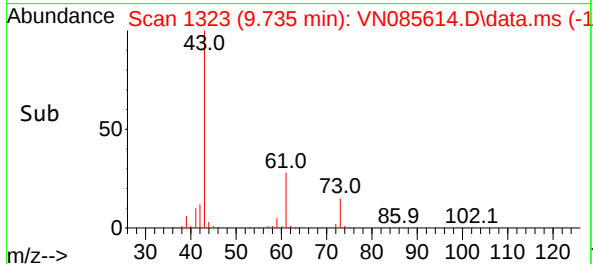
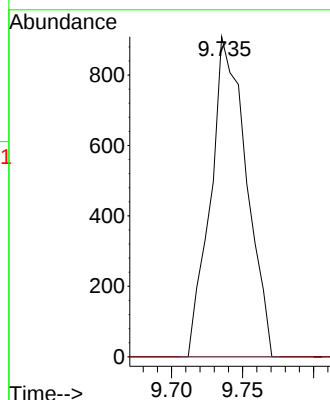
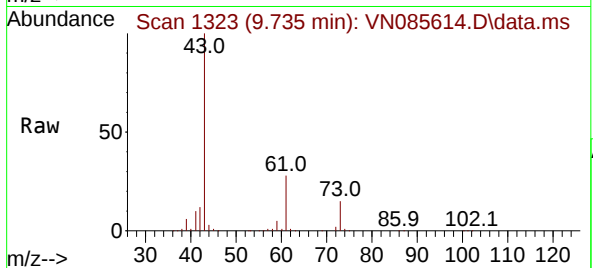
ClientSampleId :

Tgt Ion: 63 Resp: 1593

Ion Ratio Lower Upper

63 100

65 0.0 25.6 38.4#



#48

Methyl methacrylate

Concen: 1.883 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. -0.012 min

Lab File: VN085614.D

Acq: 31 Jan 2025 20:05

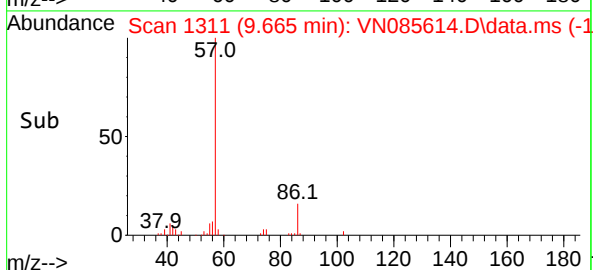
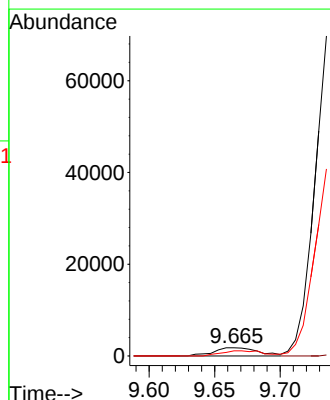
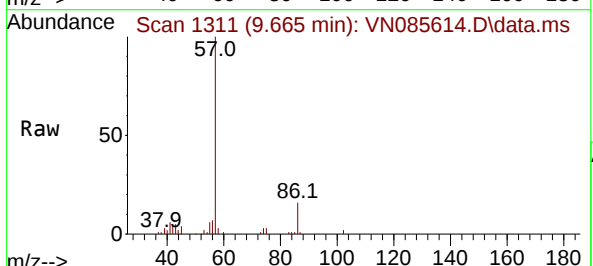
Tgt Ion: 41 Resp: 4237

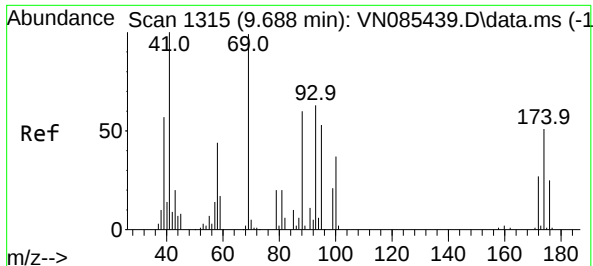
Ion Ratio Lower Upper

41 100

69 0.0 64.7 97.1#

39 56.4 49.0 73.6





#49

1,4-Dioxane

Concen: 1.795 ug/l

RT: 9.723 min Scan# 1

Delta R.T. 0.035 min

Lab File: VN085614.D

Acq: 31 Jan 2025 20:05

Instrument :

MSVOA_N

ClientSampleId :

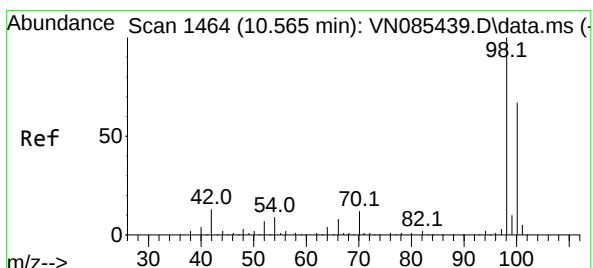
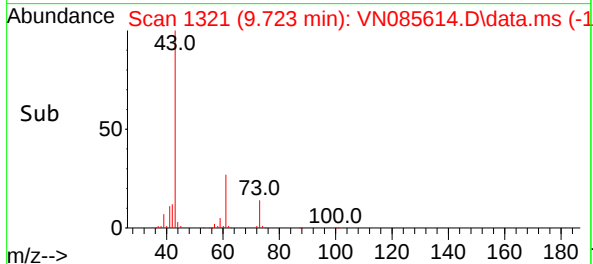
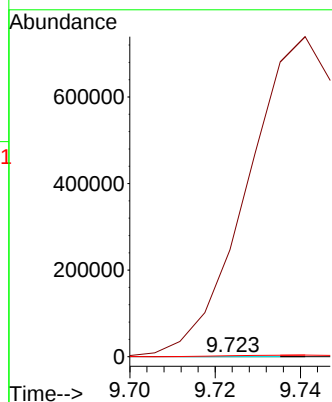
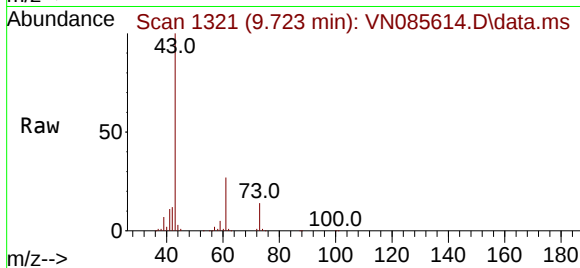
Tgt Ion: 88 Resp: 68

Ion Ratio Lower Upper

88 100

43 0.0 26.6 39.8#

58 0.0 59.5 89.3#



#50

Toluene-d8

Concen: 51.863 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN085614.D

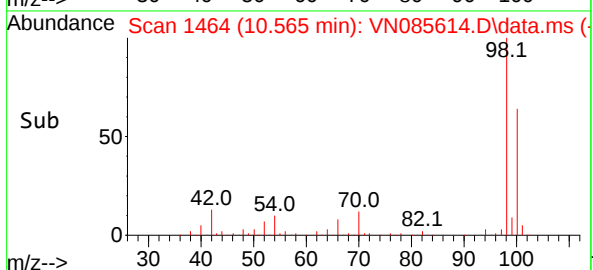
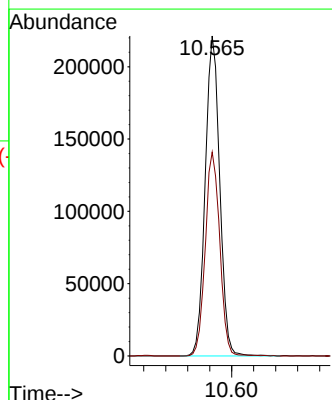
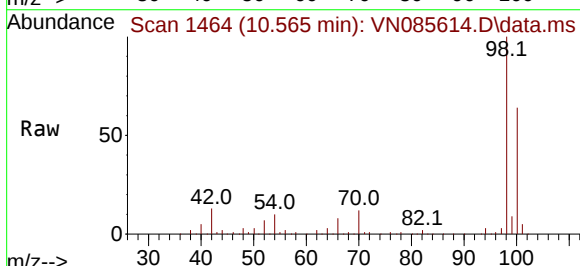
Acq: 31 Jan 2025 20:05

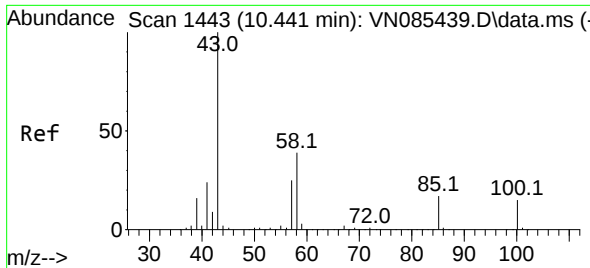
Tgt Ion: 98 Resp: 405836

Ion Ratio Lower Upper

98 100

100 63.5 52.2 78.4

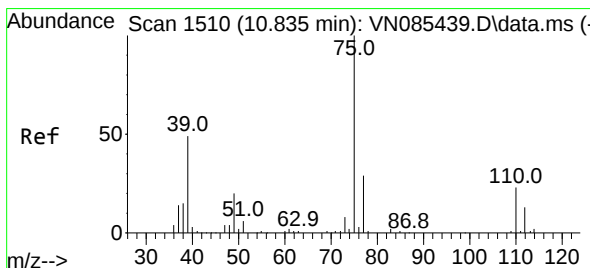
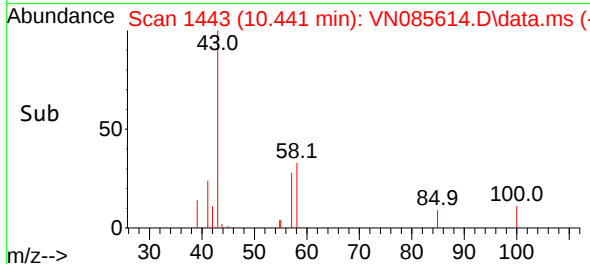
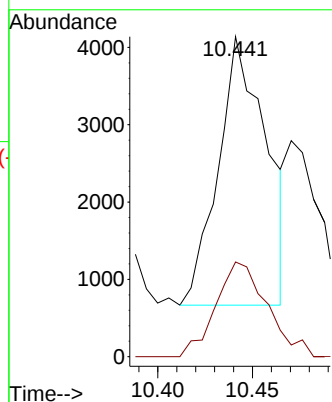
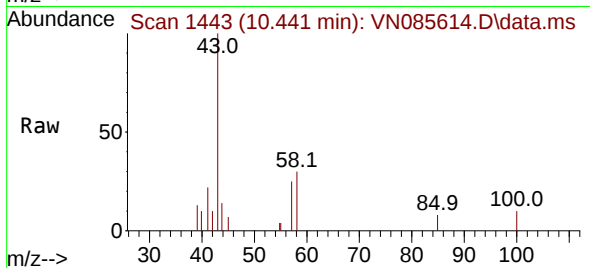




#51
4-Methyl-2-Pentanone
Concen: 2.113 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085614.D
Acq: 31 Jan 2025 20:05

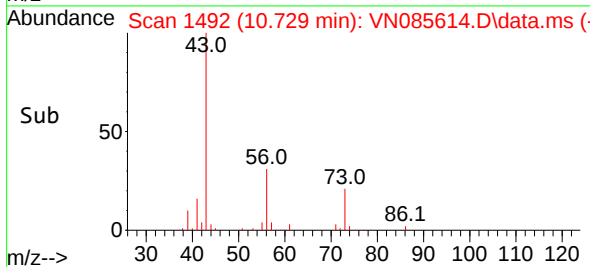
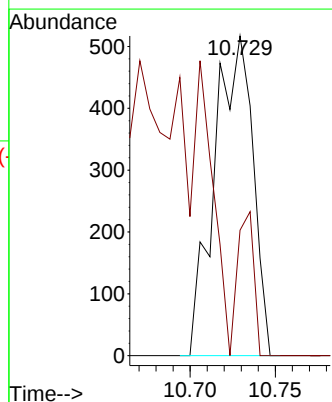
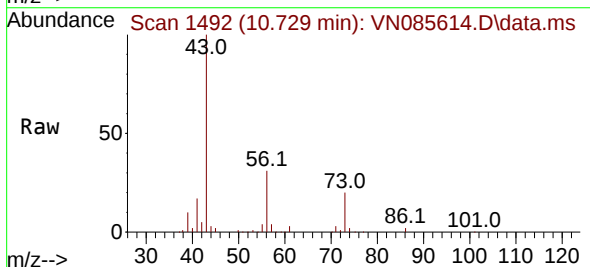
Instrument :
MSVOA_N
ClientSampleId :

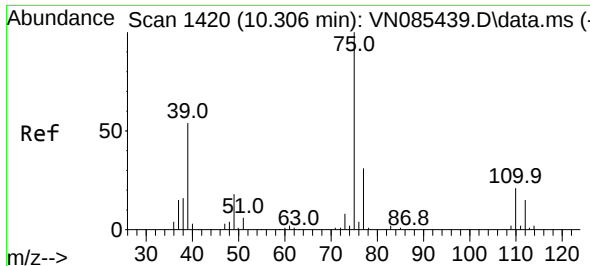
Tgt Ion: 43 Resp: 6131
Ion Ratio Lower Upper
43 100
58 37.6 30.5 45.7



#53
t-1,3-Dichloropropene
Concen: 0.246 ug/l
RT: 10.729 min Scan# 1492
Delta R.T. -0.106 min
Lab File: VN085614.D
Acq: 31 Jan 2025 20:05

Tgt Ion: 75 Resp: 810
Ion Ratio Lower Upper
75 100
77 39.3 23.5 35.3#

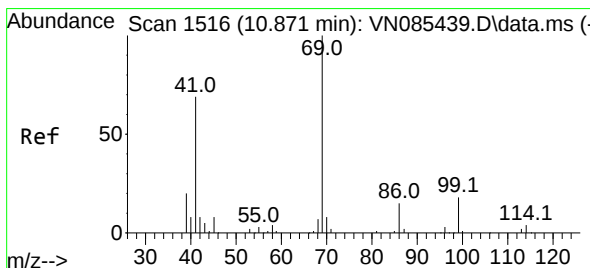
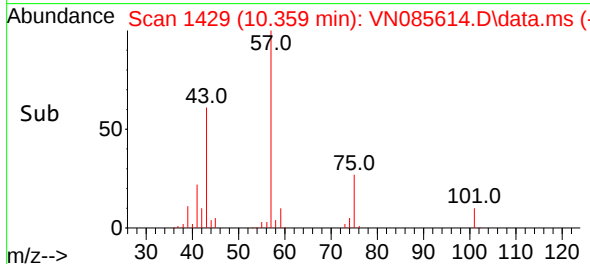
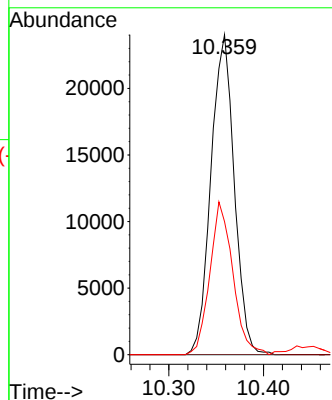
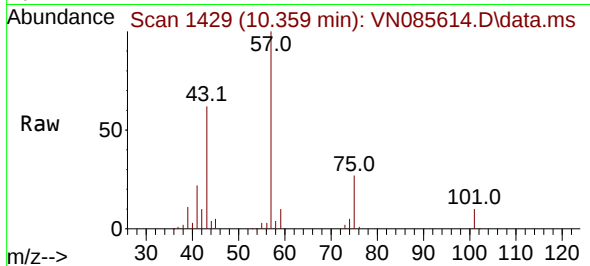




#54
 cis-1,3-Dichloropropene
 Concen: 11.694 ug/l
 RT: 10.359 min Scan# 14
 Delta R.T. 0.053 min
 Lab File: VN085614.D
 Acq: 31 Jan 2025 20:05

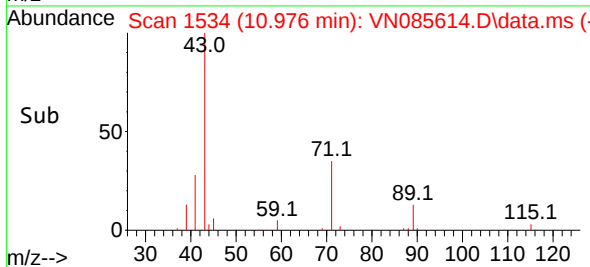
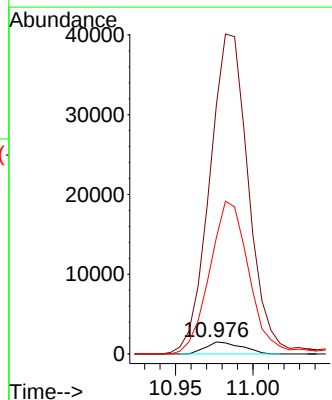
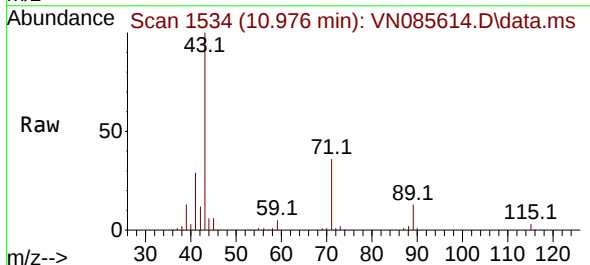
Instrument :
 MSVOA_N
 ClientSampleId :

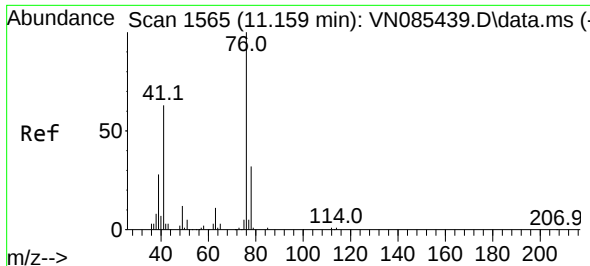
Tgt Ion: 75 Resp: 41166
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.4#
 39 41.6 43.1 64.7#



#56
 Ethyl methacrylate
 Concen: 2.582 ug/l
 RT: 10.976 min Scan# 1534
 Delta R.T. 0.105 min
 Lab File: VN085614.D
 Acq: 31 Jan 2025 20:05

Tgt Ion: 69 Resp: 2430
 Ion Ratio Lower Upper
 69 100
 41 2893.6 54.6 82.0#
 39 1401.9 32.4 48.6#





#57

1,3-Dichloropropane

Concen: 1.530 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.047 min

Lab File: VN085614.D

Acq: 31 Jan 2025 20:05

Instrument :

MSVOA_N

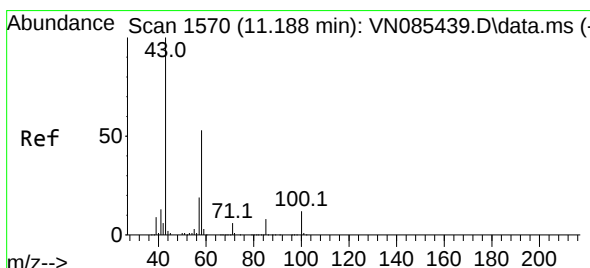
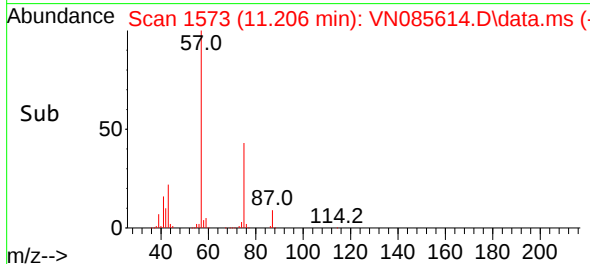
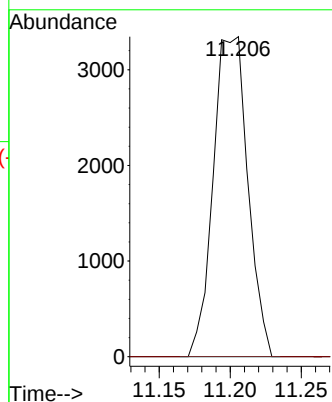
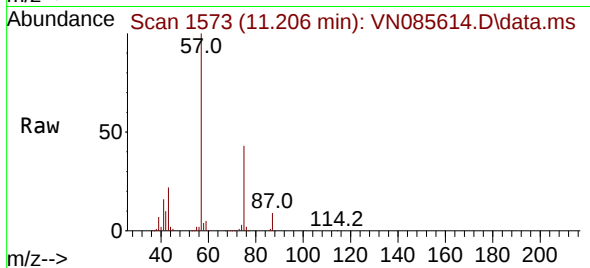
ClientSampleId :

Tgt Ion: 76 Resp: 5667

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 35.815 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.012 min

Lab File: VN085614.D

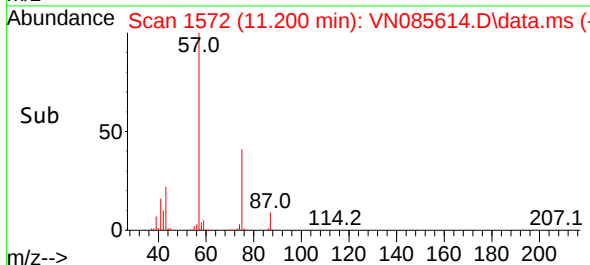
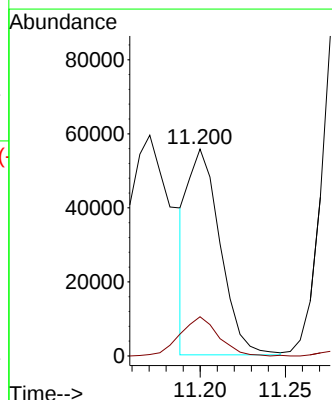
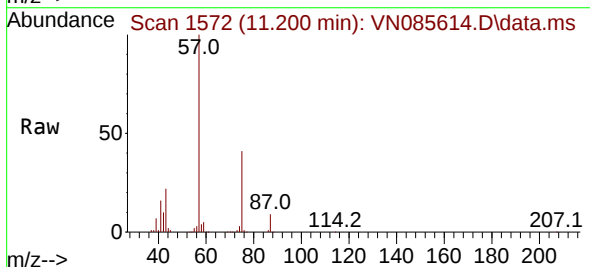
Acq: 31 Jan 2025 20:05

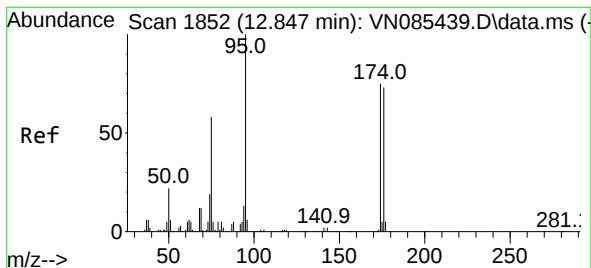
Tgt Ion: 43 Resp: 73107

Ion Ratio Lower Upper

43 100

58 22.7 26.2 78.6#

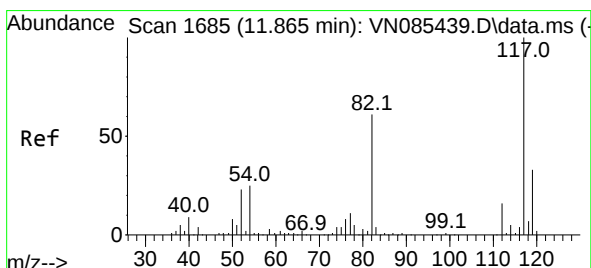
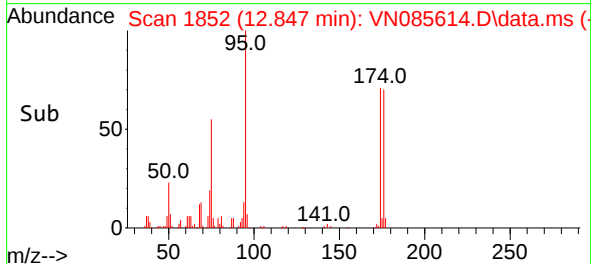
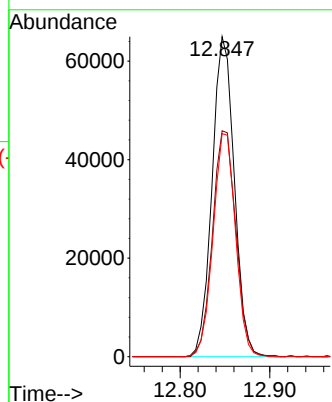
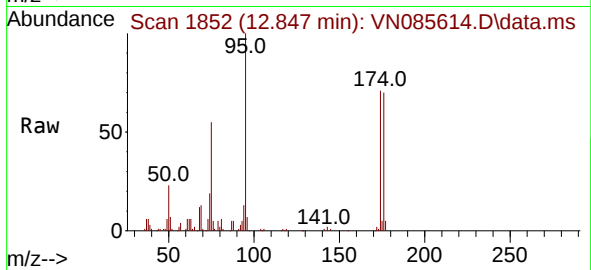




#62
4-Bromofluorobenzene
Concen: 41.695 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085614.D
Acq: 31 Jan 2025 20:05

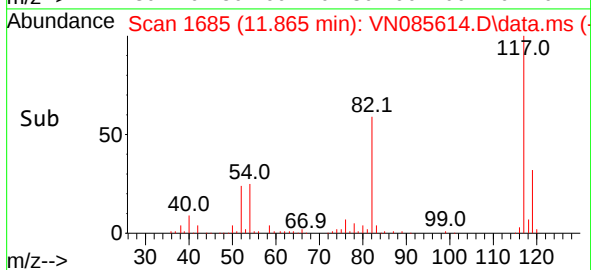
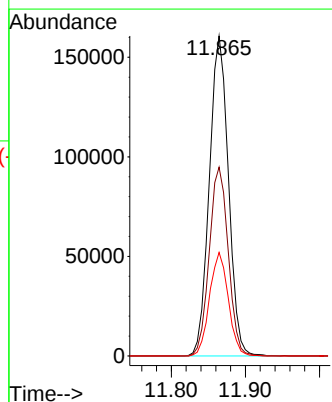
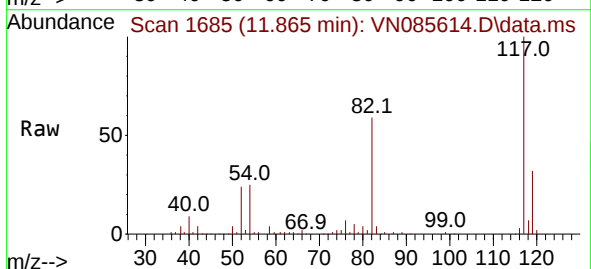
Instrument :
MSVOA_N
ClientSampleId :

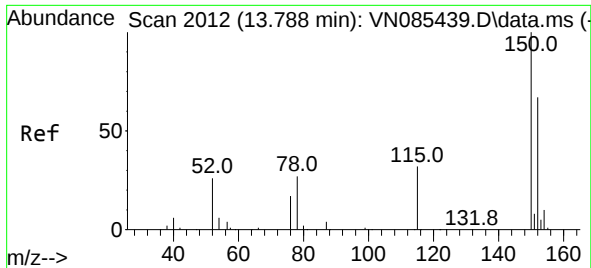
Tgt Ion: 95 Resp: 111608
Ion Ratio Lower Upper
95 100
174 74.5 0.0 145.0
176 70.5 0.0 142.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN085614.D
Acq: 31 Jan 2025 20:05

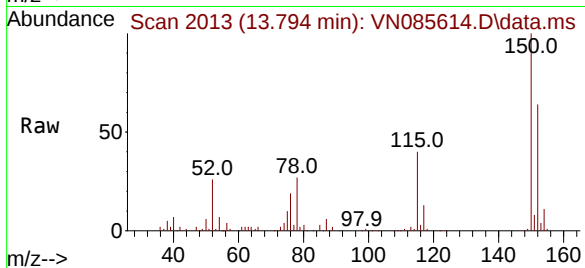
Tgt Ion: 117 Resp: 287869
Ion Ratio Lower Upper
117 100
82 59.0 48.6 72.8
119 32.3 26.6 39.8



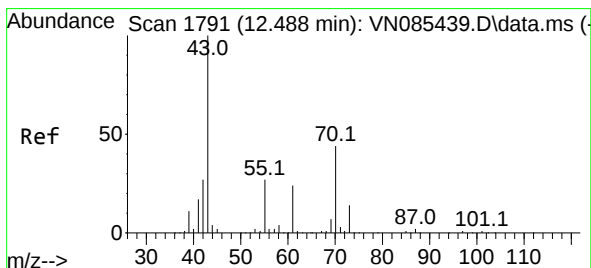
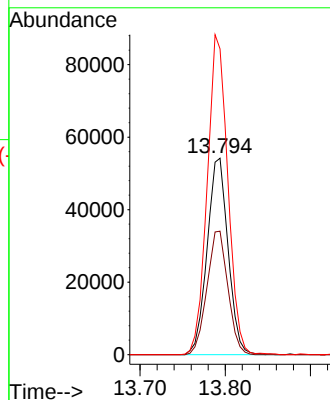
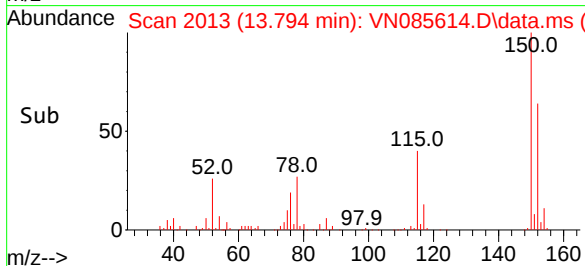


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 20
 Delta R.T. 0.006 min
 Lab File: VN085614.D
 Acq: 31 Jan 2025 20:05

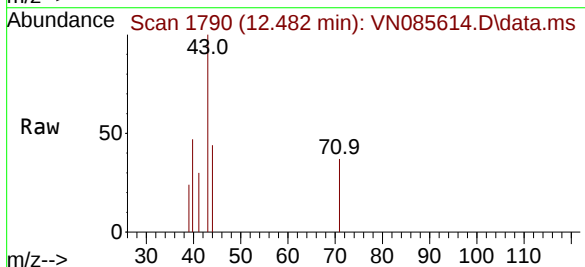
Instrument :
 MSVOA_N
 ClientSampleId :



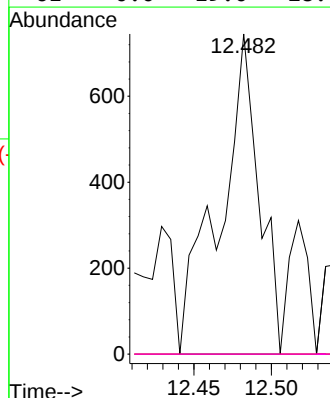
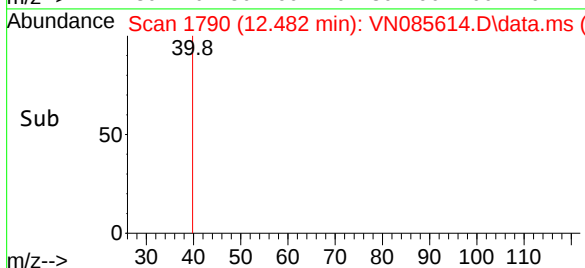
Tgt Ion:152 Resp: 92759
 Ion Ratio Lower Upper
 152 100
 115 62.6 31.1 93.3
 150 159.4 0.0 343.6

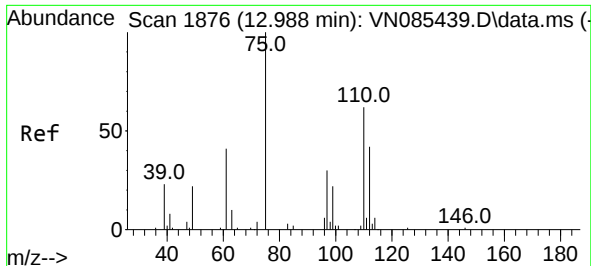


#74
 N-ethyl acetate
 Concen: 0.469 ug/l
 RT: 12.482 min Scan# 1790
 Delta R.T. -0.006 min
 Lab File: VN085614.D
 Acq: 31 Jan 2025 20:05



Tgt Ion: 43 Resp: 1321
 Ion Ratio Lower Upper
 43 100
 70 0.0 34.0 51.0#
 55 0.0 21.4 32.2#
 61 0.0 19.0 28.4#

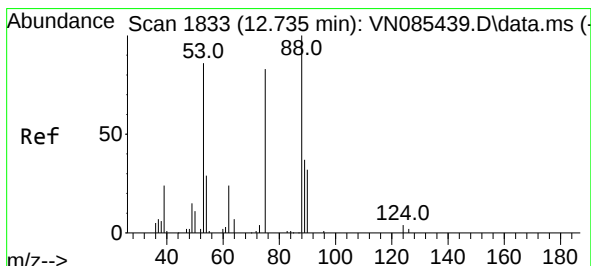
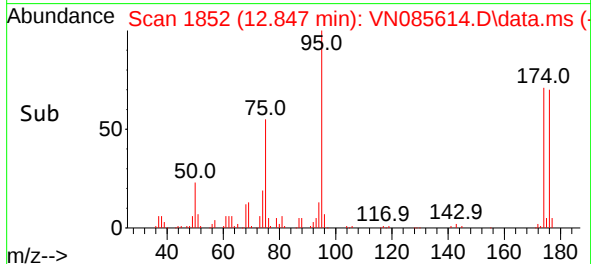
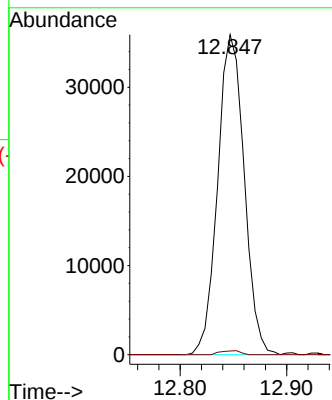
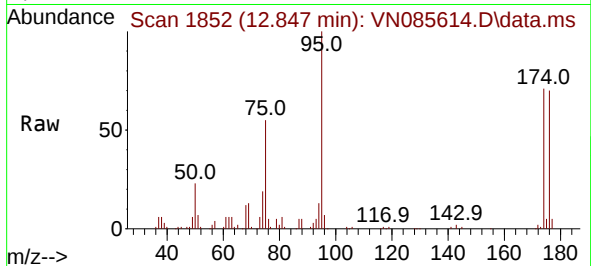




#76
1,2,3-Trichloropropane
Concen: 32.872 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN085614.D
Acq: 31 Jan 2025 20:05

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 61975
Ion Ratio Lower Upper
75 100
77 1.0 109.7 329.2#



#81
trans-1,4-Dichloro-2-butene
Concen: 88.937 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN085614.D
Acq: 31 Jan 2025 20:05

Tgt Ion: 75 Resp: 61975
Ion Ratio Lower Upper
75 100
53 0.1 95.6 143.4#
89 0.0 37.0 55.6#

