

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011025\
 Data File : VN085425.D
 Acq On : 10 Jan 2025 14:08
 Operator : JC\MD
 Sample : Q1066-01 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 10 22:48:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Dec 21 02:03:07 2024
 Response via : Initial Calibration

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

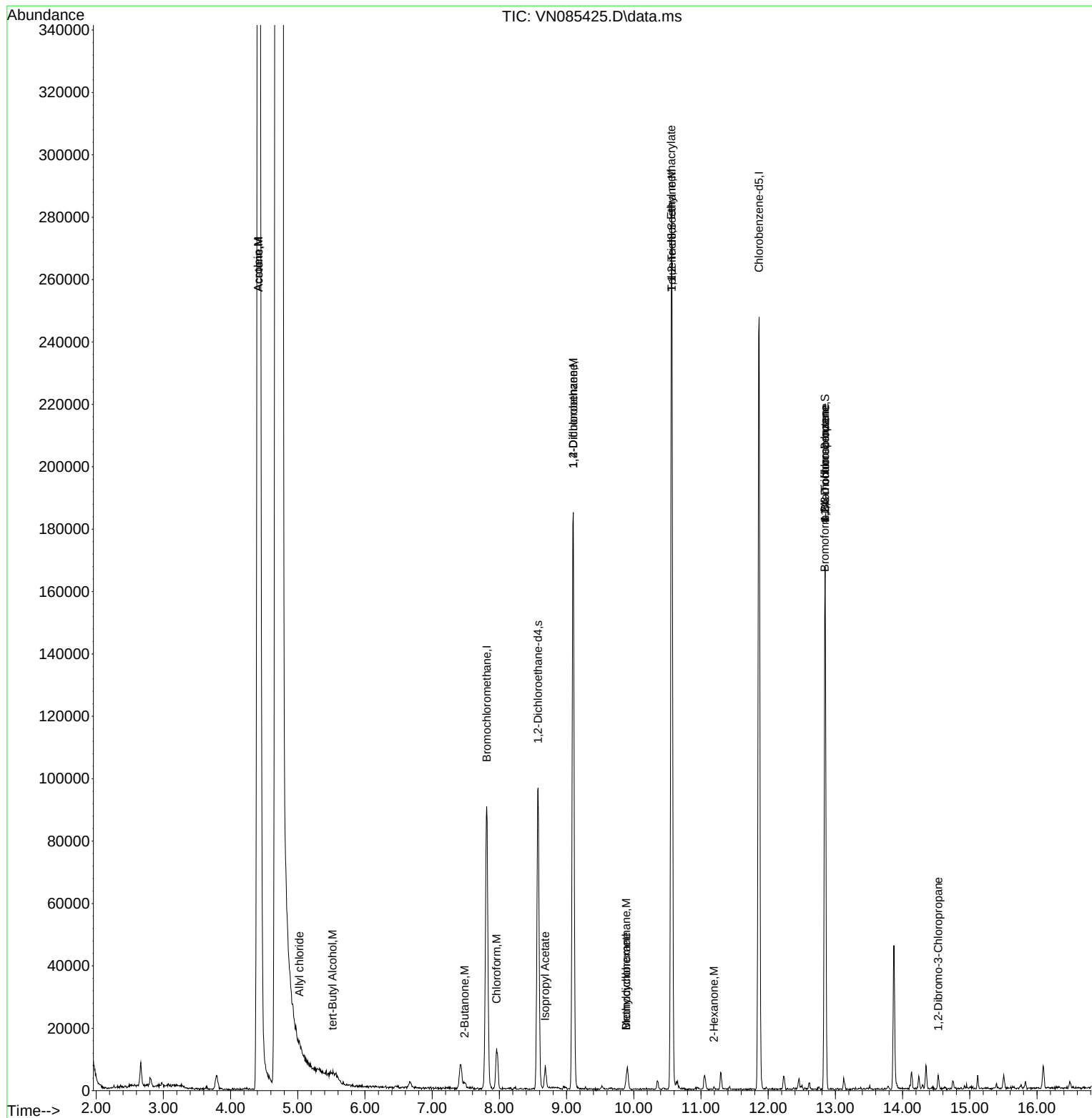
Internal Standards						
1) Bromochloromethane	7.812	128	30932	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	152538	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	138971	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	80452	29.566	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	98.567%
60) 4-Bromofluorobenzene	12.847	95	54938	24.405	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	81.333%
63) Toluene-d8	10.565	98	191449	28.213	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	94.033%
Target Compounds						
					Qvalue	
13) Acrolein	4.412	56	320	1.256	ug/l #	14
15) Acetone	4.418	58	491967	1766.985	ug/l	91
17) Allyl chloride	5.024	41	644	0.208	ug/l #	30
23) tert-Butyl Alcohol	5.518	59	1312	3.607	ug/l #	100
25) Chloroform	7.959	83	12429	2.961	ug/l	95
30) 2-Butanone	7.483	43	4505	3.223	ug/l #	68
36) 1,2-Dichloroethane	9.100	62	6154	2.033	ug/l #	77
38) Methylcyclohexane	9.888	83	1723	0.629	ug/l #	19
41) Bromodichloromethane	9.888	83	1723	0.555	ug/l #	77
44) Isopropyl Acetate	8.683	43	8101	1.687	ug/l #	81
50) 1,1,2-Trichloroethane	10.565	97	6847	3.526	ug/l #	1
51) Ethyl methacrylate	10.559	69	882	0.300	ug/l	84
56) Bromoform	12.841	173	663	0.447	ug/l #	1
59) 2-Hexanone	11.194	43	689	0.337	ug/l #	53
72) 1,2,3-Trichloropropane	12.847	75	31072	12.769	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	31072	31.245	ug/l #	6
88) 1,2-Dibromo-3-Chloropr...	14.529	75	128	0.245	ug/l #	9

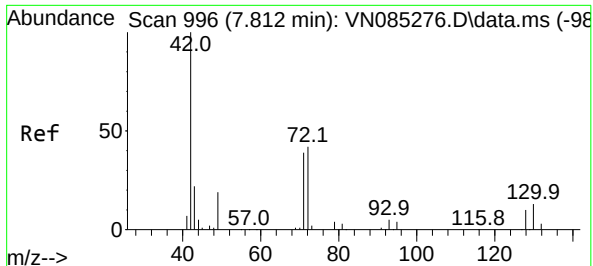
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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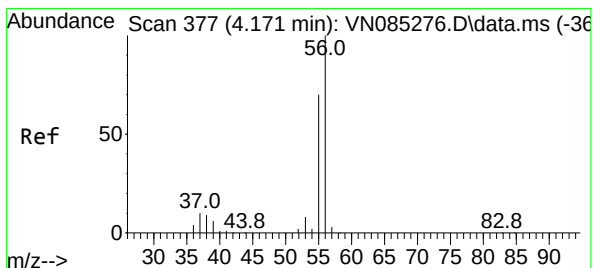
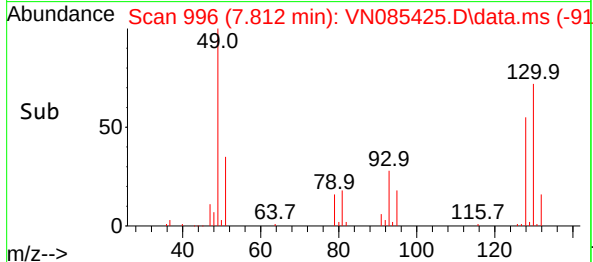
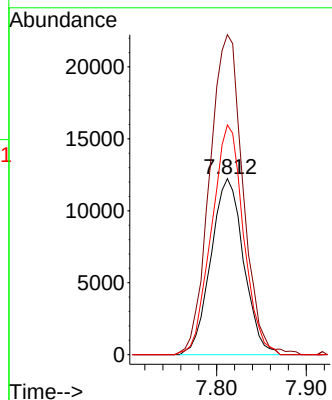
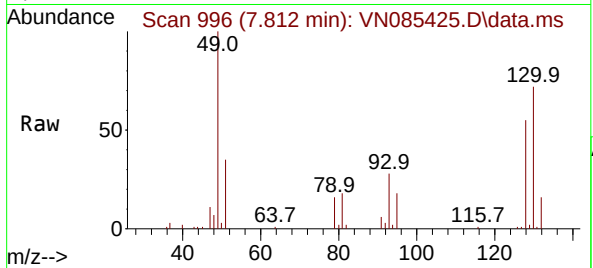




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN085425.D
Acq: 10 Jan 2025 14:08

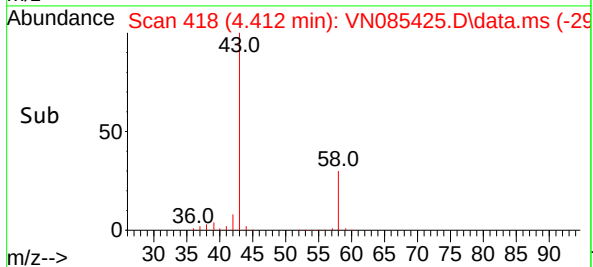
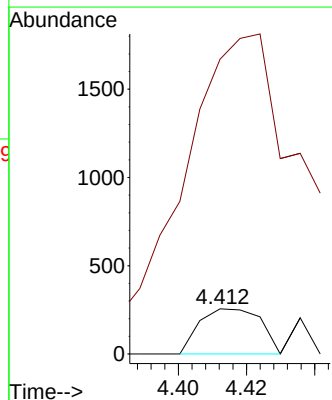
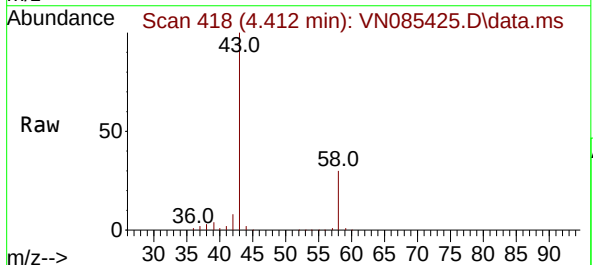
Instrument :
MSVOA_N
ClientSampleId :

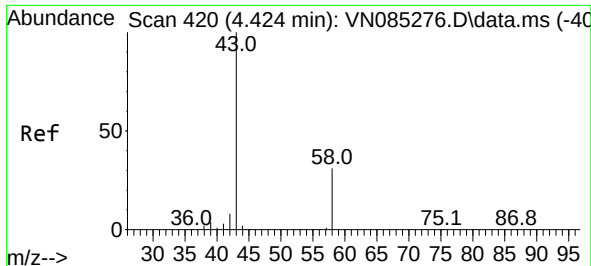
Tgt Ion:128 Resp: 30932
Ion Ratio Lower Upper
128 100
49 184.0 0.0 497.8
130 128.0 0.0 328.5



#13
Acrolein
Concen: 1.256 ug/l
RT: 4.412 min Scan# 418
Delta R.T. 0.230 min
Lab File: VN085425.D
Acq: 10 Jan 2025 14:08

Tgt Ion: 56 Resp: 320
Ion Ratio Lower Upper
56 100
55 0.0 56.8 85.2#

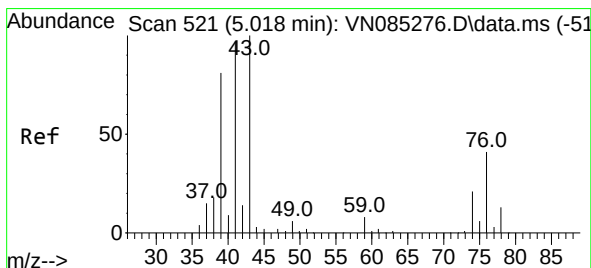
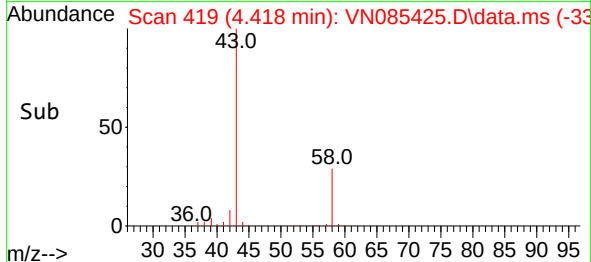
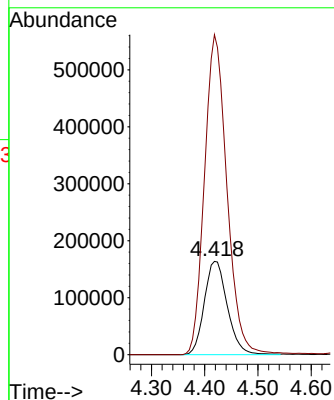
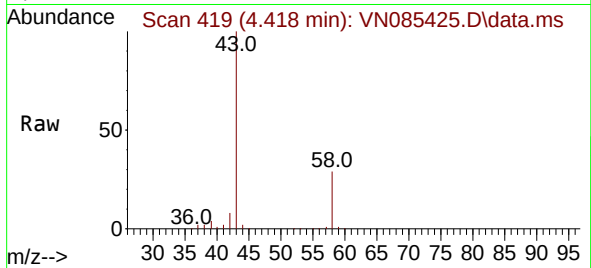




#15
Acetone
Concen: 1766.985 ug/l
RT: 4.418 min Scan# 41
Delta R.T. -0.012 min
Lab File: VN085425.D
Acq: 10 Jan 2025 14:08

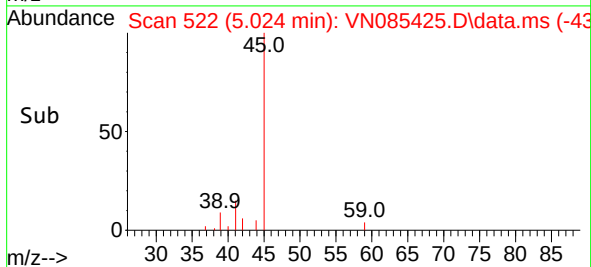
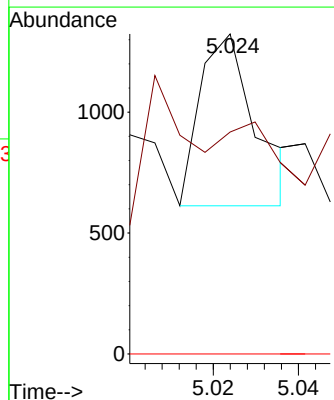
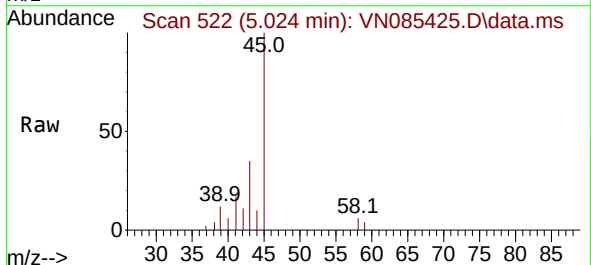
Instrument :
MSVOA_N
ClientSampleId :

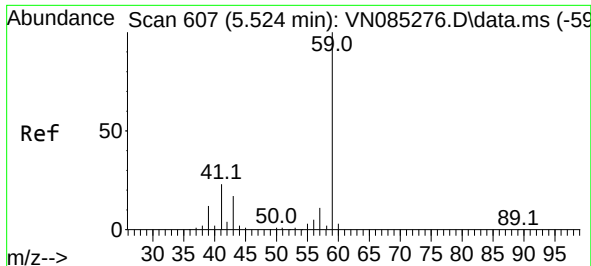
Tgt Ion: 58 Resp: 491967
Ion Ratio Lower Upper
58 100
43 342.7 258.8 388.2



#17
Allyl chloride
Concen: 0.208 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.000 min
Lab File: VN085425.D
Acq: 10 Jan 2025 14:08

Tgt Ion: 41 Resp: 644
Ion Ratio Lower Upper
41 100
39 17.7 41.3 124.1#
76 0.0 19.5 58.5#

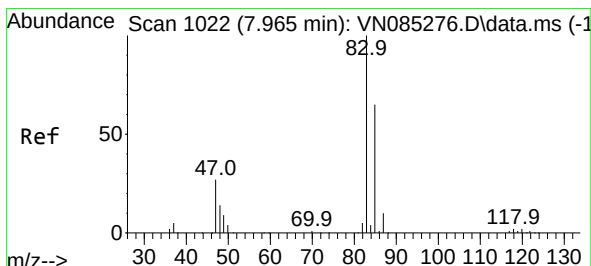
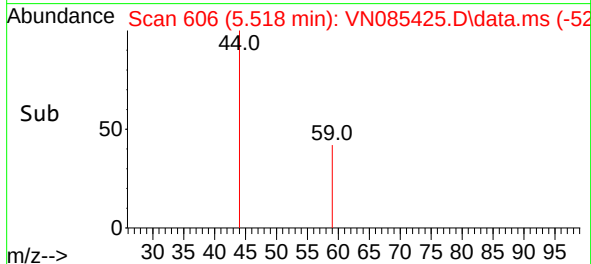
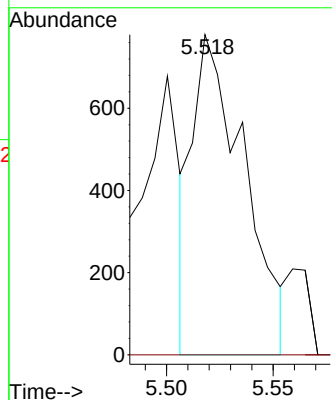
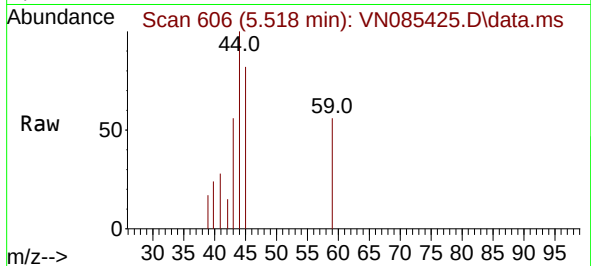




#23
tert-Butyl Alcohol
Concen: 3.607 ug/l
RT: 5.518 min Scan# 60
Delta R.T. 0.000 min
Lab File: VN085425.D
Acq: 10 Jan 2025 14:08

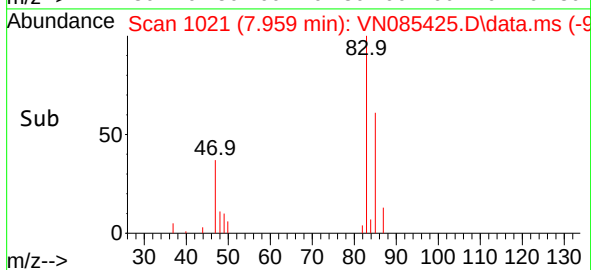
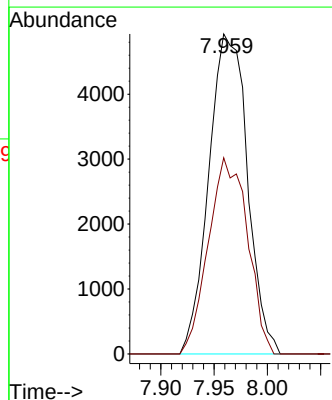
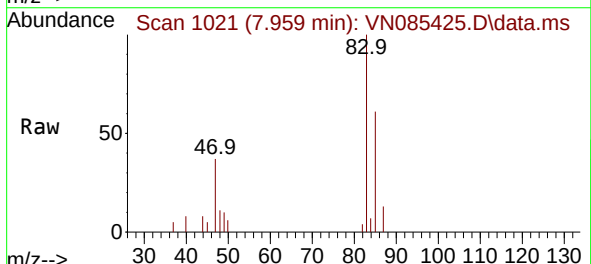
Instrument :
MSVOA_N
ClientSampleId :

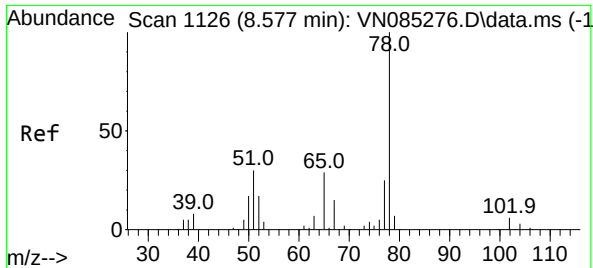
Tgt Ion: 59 Resp: 1312
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#25
Chloroform
Concen: 2.961 ug/l
RT: 7.959 min Scan# 1021
Delta R.T. -0.006 min
Lab File: VN085425.D
Acq: 10 Jan 2025 14:08

Tgt Ion: 83 Resp: 12429
Ion Ratio Lower Upper
83 100
85 61.3 52.0 78.0





#27

1,2-Dichloroethane-d4

Concen: 29.566 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN085425.D

Acq: 10 Jan 2025 14:08

Instrument :

MSVOA_N

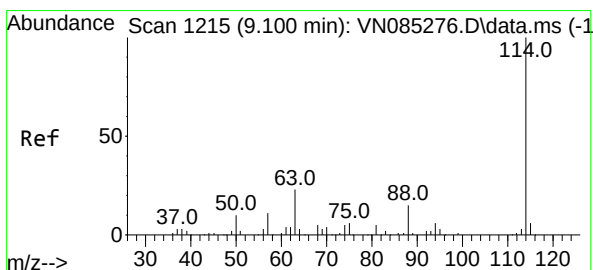
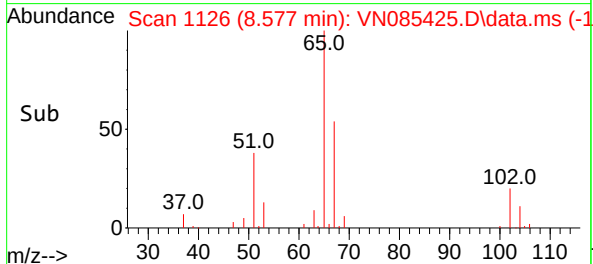
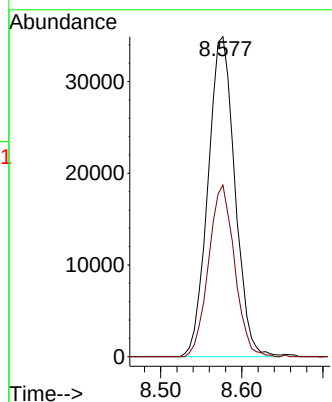
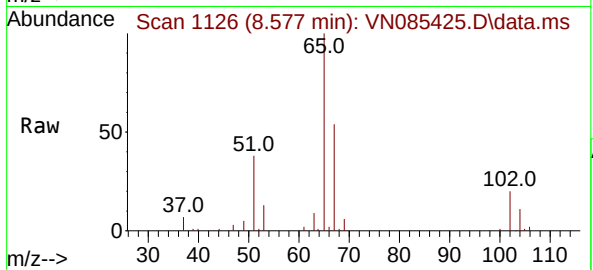
ClientSampleId :

Tgt Ion: 65 Resp: 80452

Ion Ratio Lower Upper

65 100

67 51.6 42.0 63.0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN085425.D

Acq: 10 Jan 2025 14:08

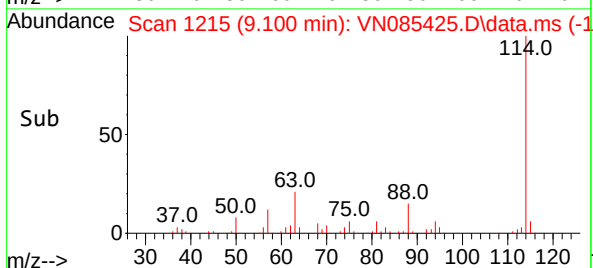
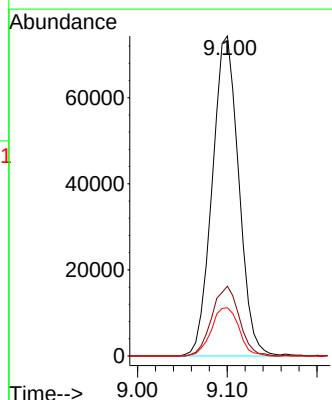
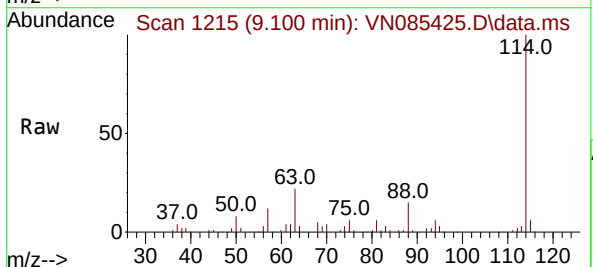
Tgt Ion: 114 Resp: 152538

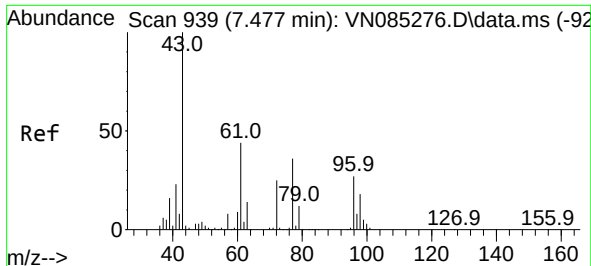
Ion Ratio Lower Upper

114 100

63 22.4 18.0 27.0

88 15.7 12.9 19.3





#30

2-Butanone

Concen: 3.223 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.006 min

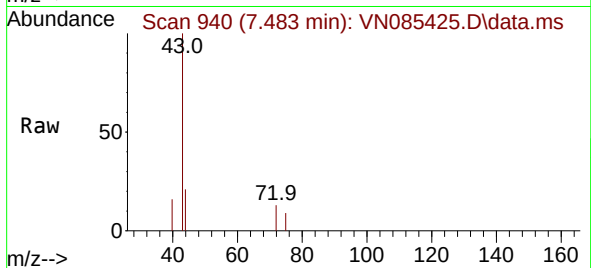
Lab File: VN085425.D

Acq: 10 Jan 2025 14:08

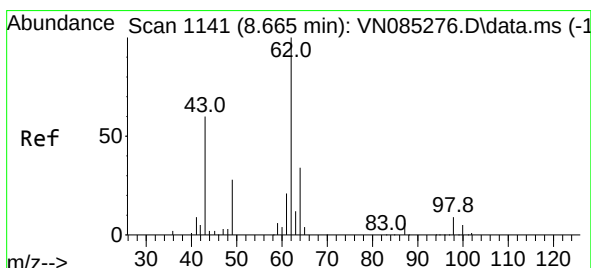
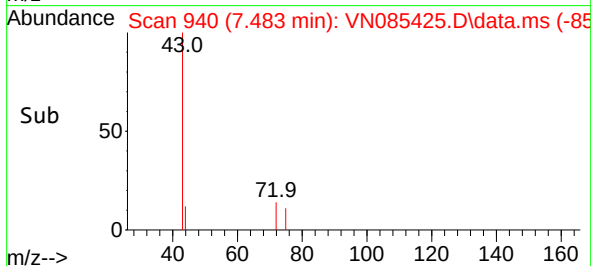
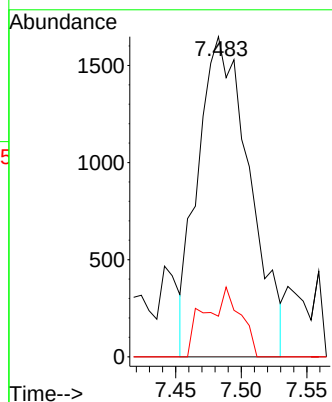
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	43	Resp:	4505
Ion	Ratio	Lower	Upper
43	100		
57	0.0	6.2	9.2#
72	7.6	19.9	29.9#



#36

1,2-Dichloroethane

Concen: 2.033 ug/l

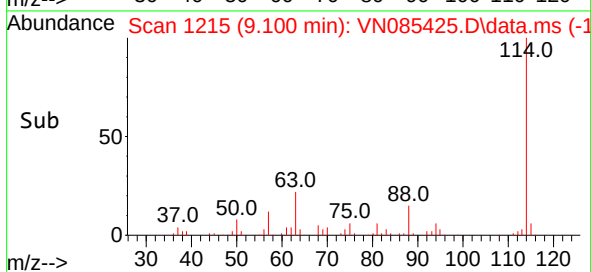
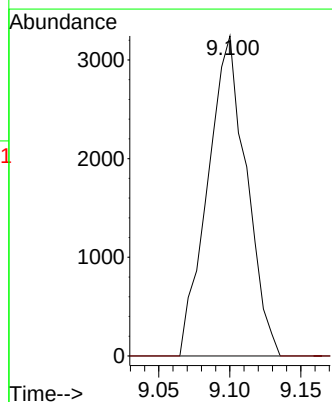
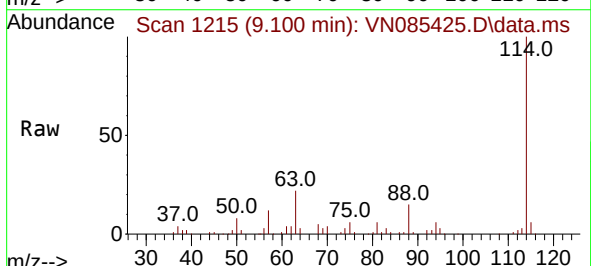
RT: 9.100 min Scan# 1215

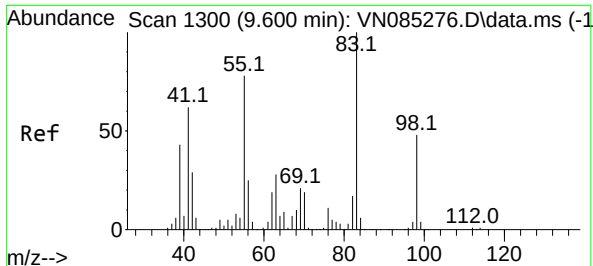
Delta R.T. 0.435 min

Lab File: VN085425.D

Acq: 10 Jan 2025 14:08

Tgt Ion:	62	Resp:	6154
Ion	Ratio	Lower	Upper
62	100		
98	0.0	6.6	10.0#





#38

Methylcyclohexane

Concen: 0.629 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. 0.288 min

Lab File: VN085425.D

Acq: 10 Jan 2025 14:08

Instrument :

MSVOA_N

ClientSampleId :

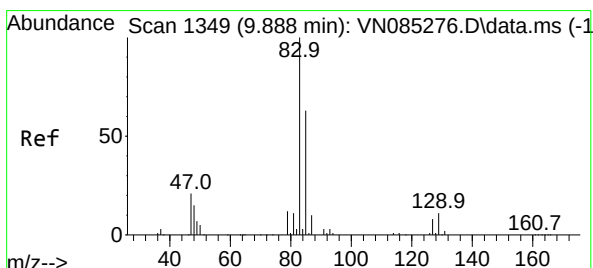
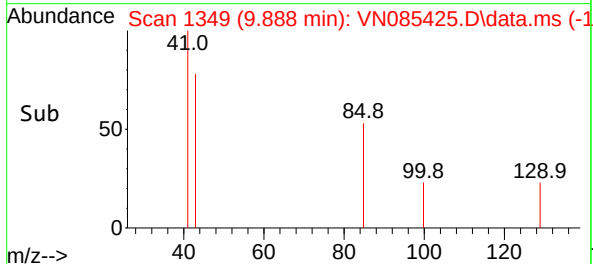
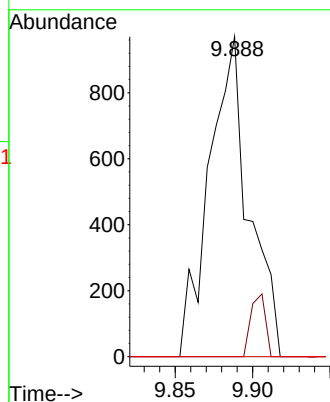
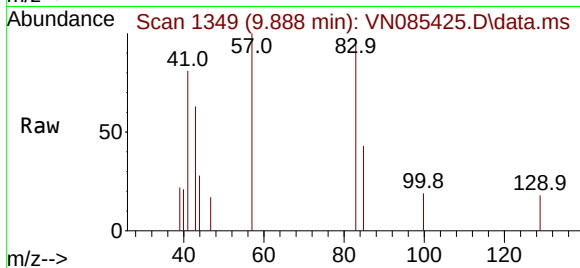
Tgt Ion: 83 Resp: 1723

Ion Ratio Lower Upper

83 100

55 7.2 43.6 130.8#

98 0.0 24.2 72.6#



#41

Bromodichloromethane

Concen: 0.555 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. 0.006 min

Lab File: VN085425.D

Acq: 10 Jan 2025 14:08

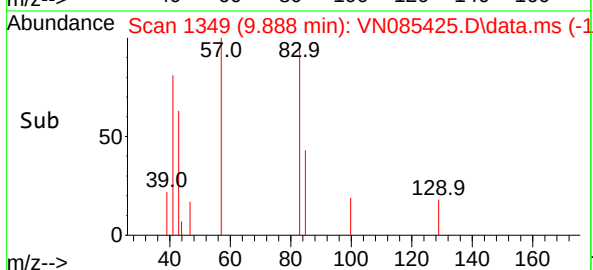
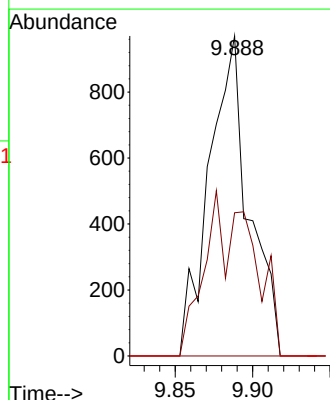
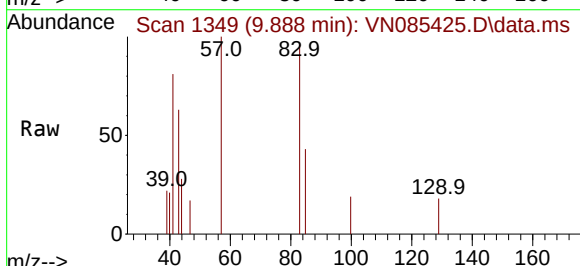
Tgt Ion: 83 Resp: 1723

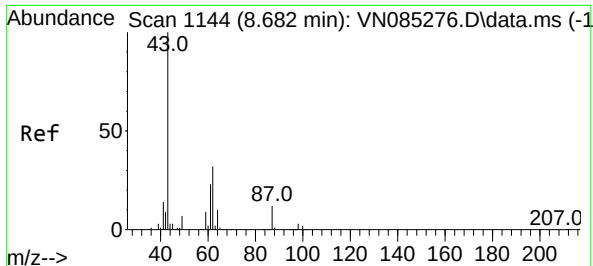
Ion Ratio Lower Upper

83 100

85 44.7 50.1 75.1#

127 0.0 5.8 8.6#





#44

Isopropyl Acetate

Concen: 1.687 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. -0.006 min

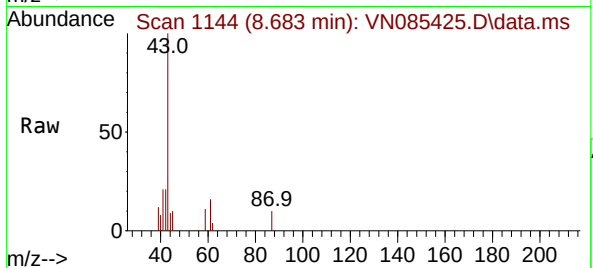
Lab File: VN085425.D

Acq: 10 Jan 2025 14:08

Instrument :

MSVOA_N

ClientSampleId :

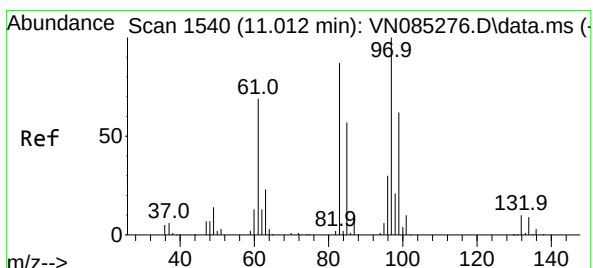
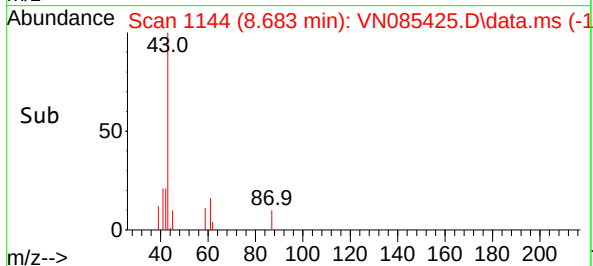
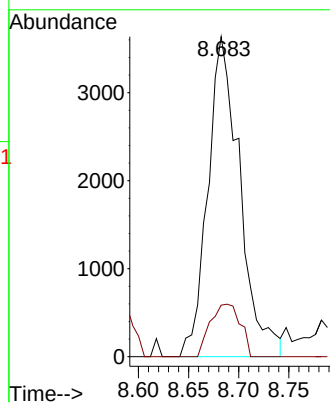


Tgt Ion: 43 Resp: 8101

Ion Ratio Lower Upper

43 100

61 15.4 19.7 29.5#



#50

1,1,2-Trichloroethane

Concen: 3.526 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.447 min

Lab File: VN085425.D

Acq: 10 Jan 2025 14:08

Tgt Ion: 97 Resp: 6847

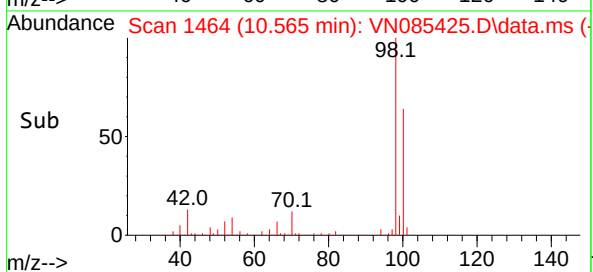
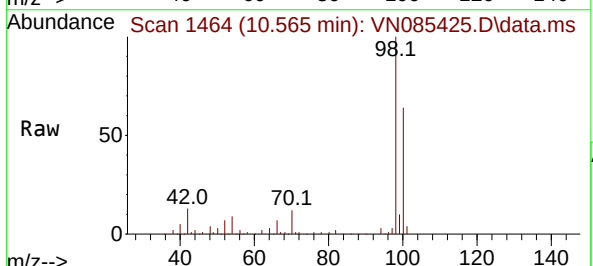
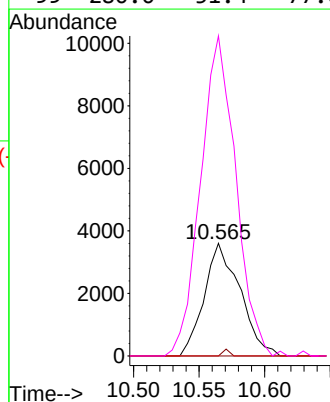
Ion Ratio Lower Upper

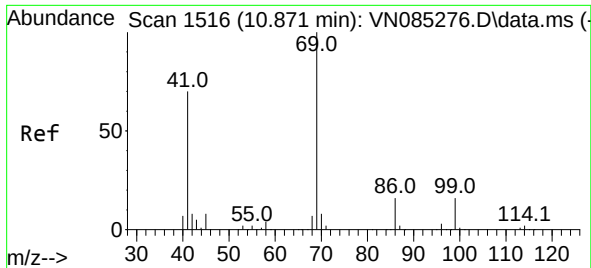
97 100

83 0.0 72.2 108.2#

85 0.0 46.6 70.0#

99 280.0 51.4 77.0#

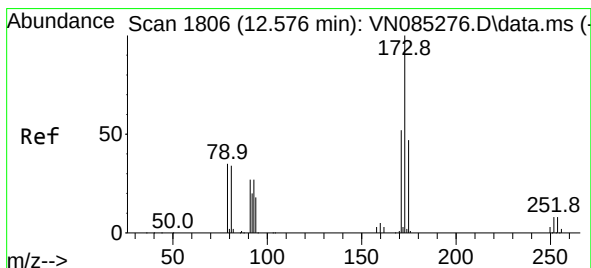
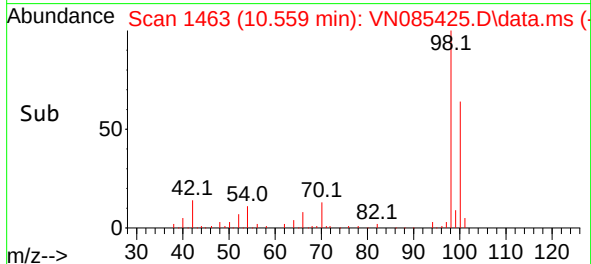
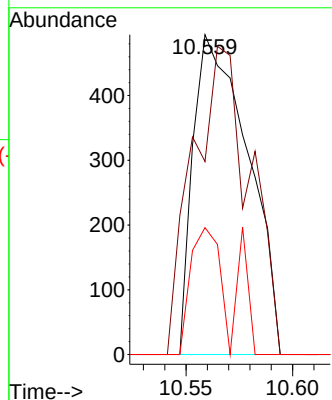
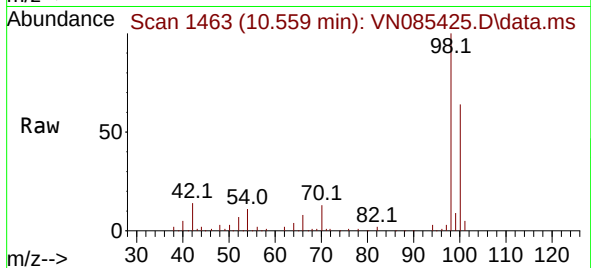




#51
Ethyl methacrylate
Concen: 0.300 ug/l
RT: 10.559 min Scan# 14
Delta R.T. -0.312 min
Lab File: VN085425.D
Acq: 10 Jan 2025 14:08

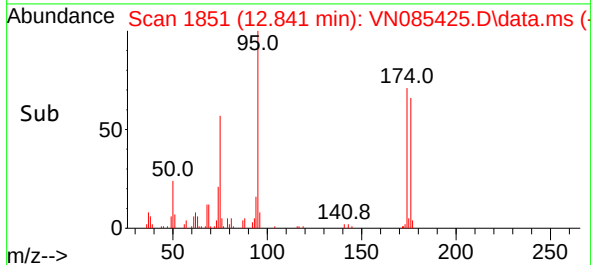
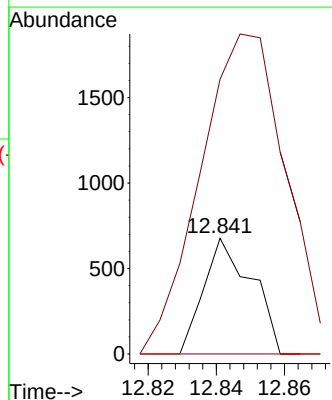
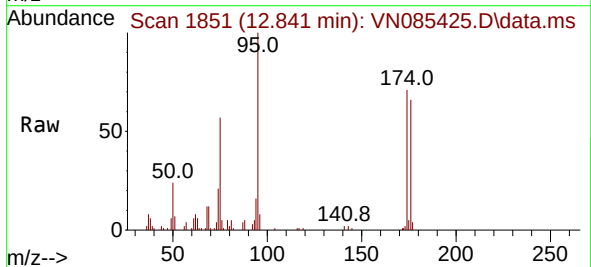
Instrument :
MSVOA_N
ClientSampleId :

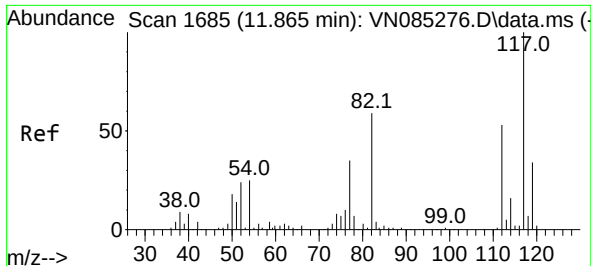
Tgt Ion: 69 Resp: 882
Ion Ratio Lower Upper
69 100
41 60.3 38.1 114.5
39 39.7 24.1 72.2



#56
Bromoform
Concen: 0.447 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. 0.265 min
Lab File: VN085425.D
Acq: 10 Jan 2025 14:08

Tgt Ion:173 Resp: 663
Ion Ratio Lower Upper
173 100
175 492.3 39.4 59.2#
254 0.0 7.2 10.8#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN085425.D

Acq: 10 Jan 2025 14:08

Instrument :

MSVOA_N

ClientSampleId :

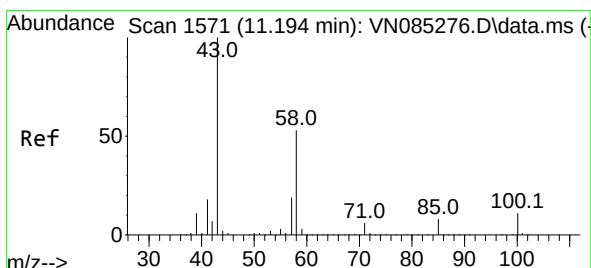
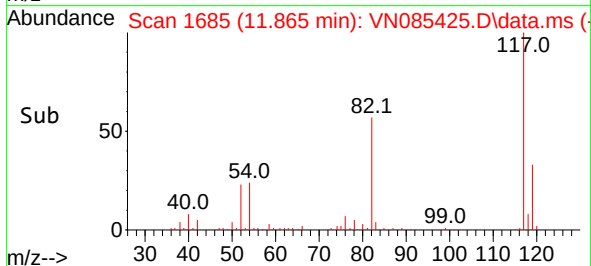
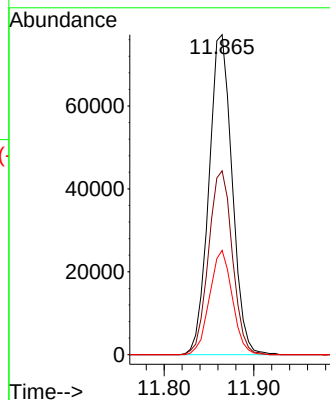
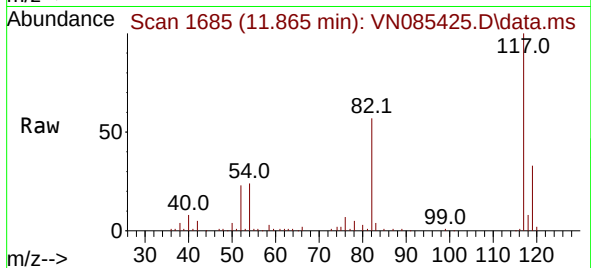
Tgt Ion:117 Resp: 138971

Ion Ratio Lower Upper

117 100

82 58.9 47.4 71.0

119 32.0 25.3 37.9



#59

2-Hexanone

Concen: 0.337 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.000 min

Lab File: VN085425.D

Acq: 10 Jan 2025 14:08

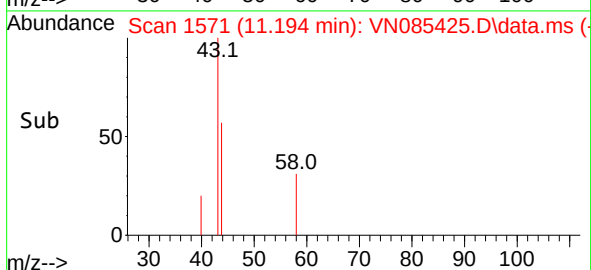
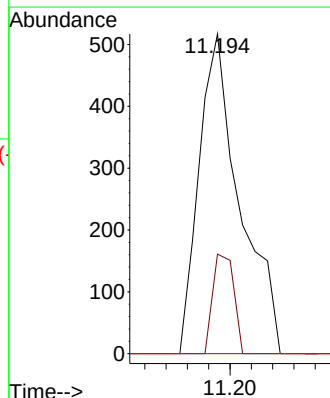
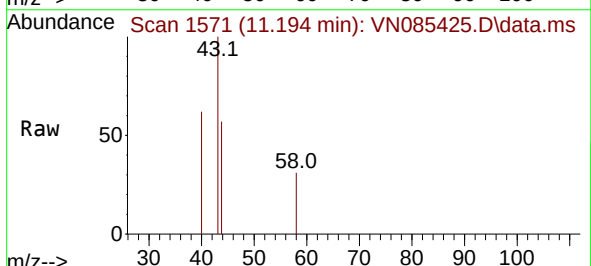
Tgt Ion: 43 Resp: 689

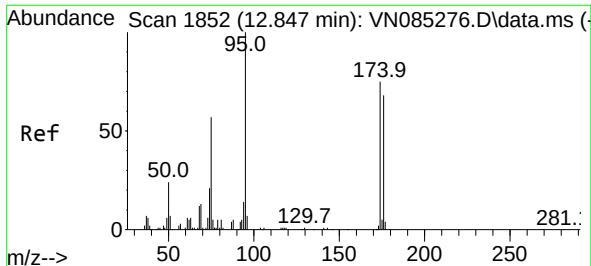
Ion Ratio Lower Upper

43 100

58 16.0 40.2 60.4#

57 0.0 14.2 21.4#

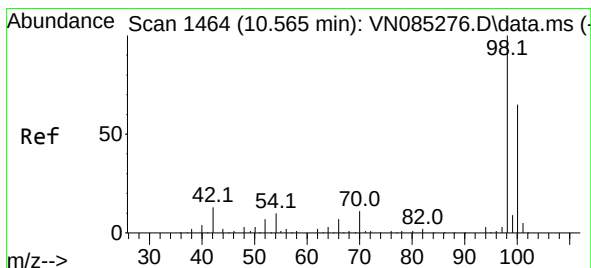
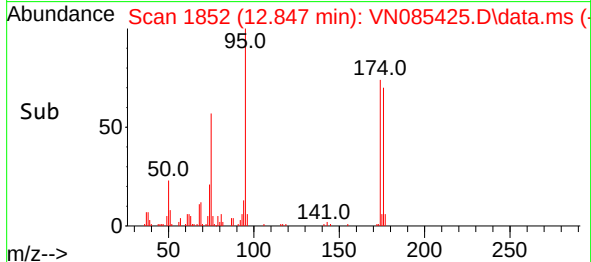
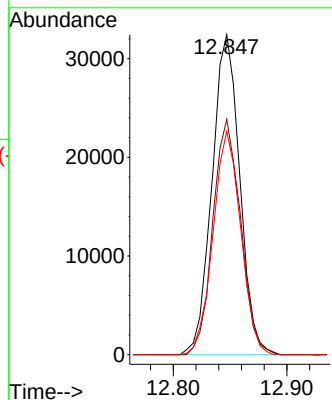
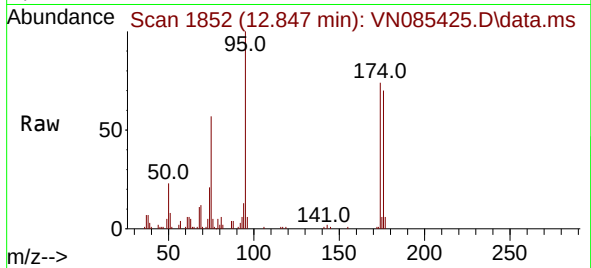




#60
4-Bromofluorobenzene
Concen: 24.405 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085425.D
Acq: 10 Jan 2025 14:08

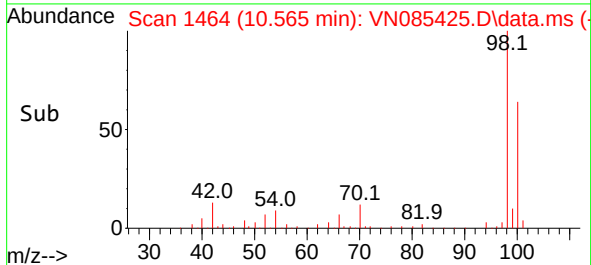
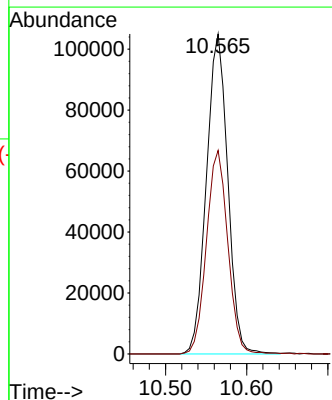
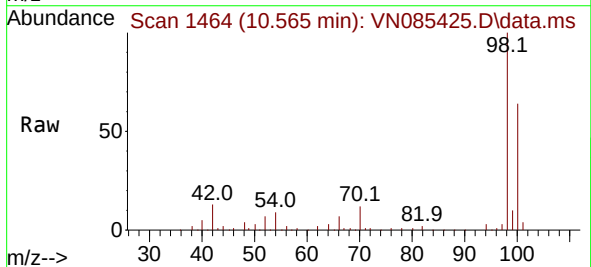
Instrument :
MSVOA_N
ClientSampleId :

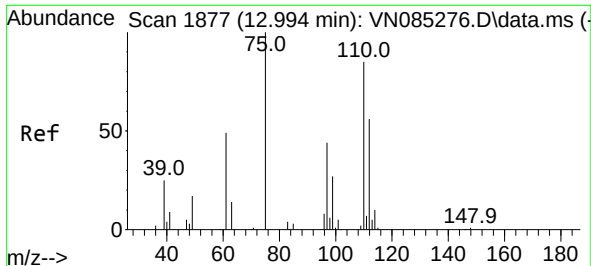
Tgt Ion: 95 Resp: 54938
Ion Ratio Lower Upper
95 100
174 73.5 57.8 86.8
176 69.6 57.1 85.7



#63
Toluene-d8
Concen: 28.213 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085425.D
Acq: 10 Jan 2025 14:08

Tgt Ion: 98 Resp: 191449
Ion Ratio Lower Upper
98 100
100 63.5 50.8 76.2

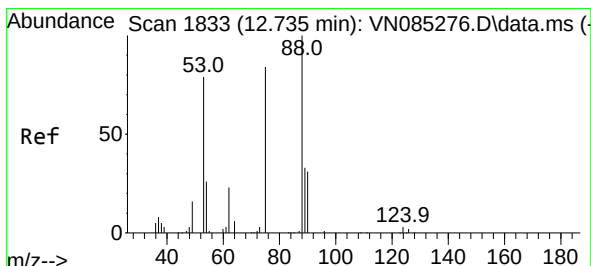
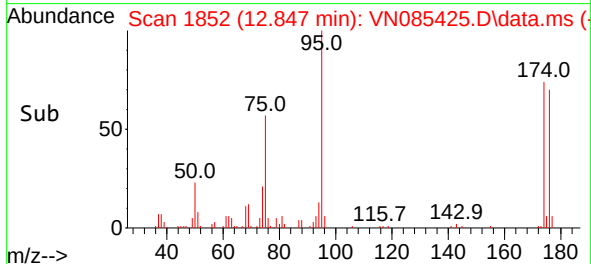
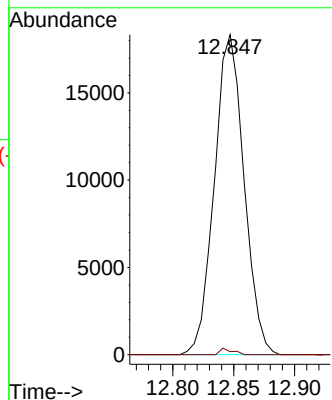
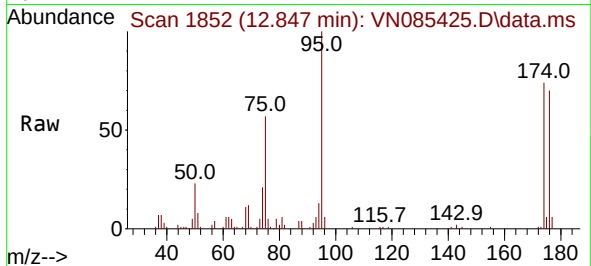




#72
1,2,3-Trichloropropane
Concen: 12.769 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN085425.D
Acq: 10 Jan 2025 14:08

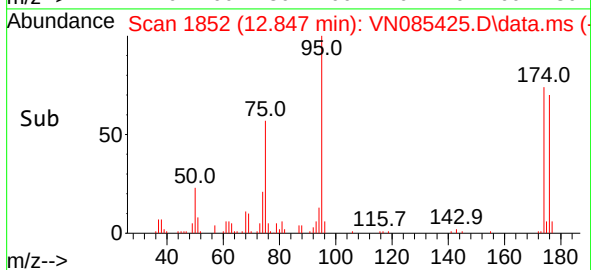
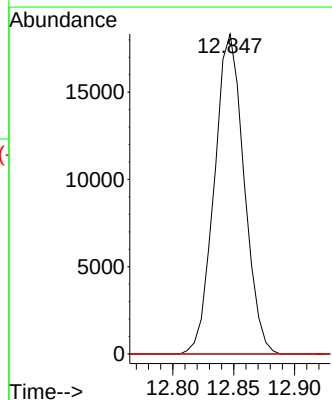
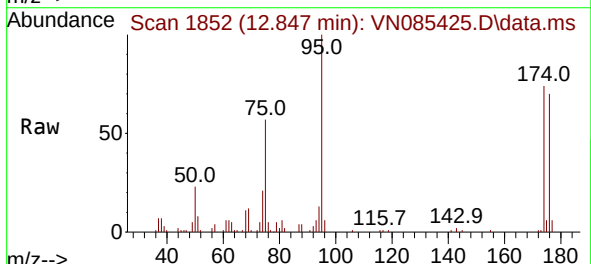
Instrument :
MSVOA_N
ClientSampleId :

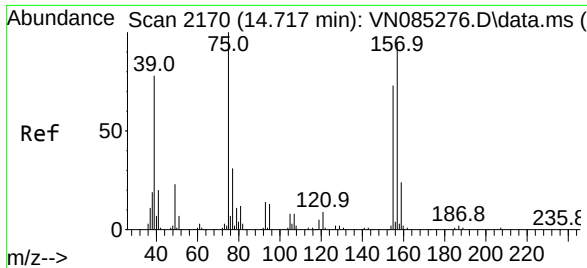
Tgt Ion: 75 Resp: 31072
Ion Ratio Lower Upper
75 100
77 0.8 0.0 407.2



#77
t-1,4-Dichloro-2-butene
Concen: 31.245 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN085425.D
Acq: 10 Jan 2025 14:08

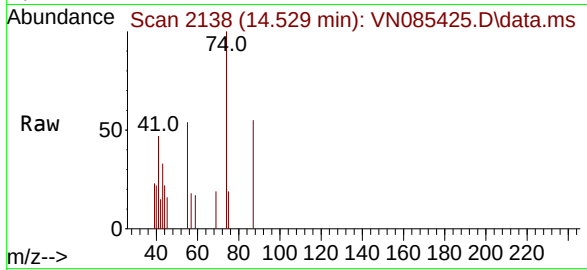
Tgt Ion: 75 Resp: 31072
Ion Ratio Lower Upper
75 100
53 0.0 54.9 164.5#
89 0.0 22.8 68.3#





#88
1,2-Dibromo-3-Chloropropane
Concen: 0.245 ug/l
RT: 14.529 min Scan# 21
Delta R.T. -0.188 min
Lab File: VN085425.D
Acq: 10 Jan 2025 14:08

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 75 Resp: 128
Ion Ratio Lower Upper
75 100
155 0.0 53.4 80.0#
157 0.0 74.2 111.4#

