

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN013125\
 Data File : VN085602.D
 Acq On : 31 Jan 2025 15:15
 Operator : JC\MD
 Sample : PB166357ZHE#07
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 31 22:29:44 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

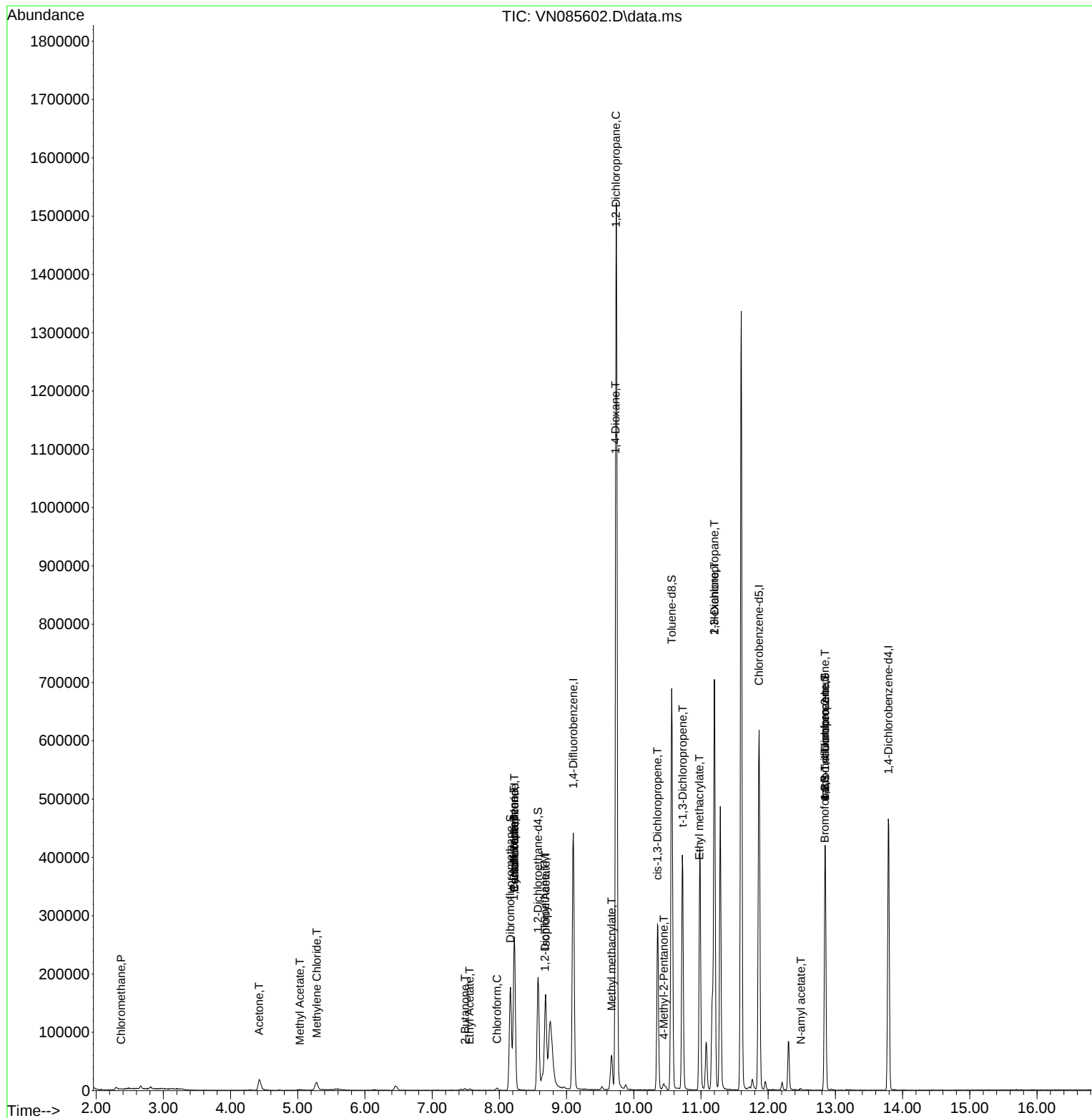
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	175903	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	361116	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	333777	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	121720	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	165798	58.391	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 116.780%	
35) Dibromofluoromethane	8.165	113	123541	49.313	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 98.620%	
50) Toluene-d8	10.565	98	457451	51.392	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 102.780%	
62) 4-Bromofluorobenzene	12.847	95	137139	45.040	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 90.080%	
Target Compounds						Qvalue
3) Chloromethane	2.371	50	658	0.255	ug/l #	41
16) Acetone	4.424	43	36794	40.105	ug/l	95
18) Methyl Acetate	5.030	43	3351	1.201	ug/l #	67
20) Methylene Chloride	5.283	84	9685	4.264	ug/l	86
25) 2-Butanone	7.488	43	4785	3.544	ug/l	90
30) Chloroform	7.965	83	3789	0.884	ug/l	86
31) Cyclohexane	8.224	56	5019	1.393	ug/l #	16
36) 1,1-Dichloropropene	8.218	75	16959	4.823	ug/l #	52
37) Ethyl Acetate	7.559	43	4187	1.180	ug/l #	75
38) Carbon Tetrachloride	8.224	117	19980	4.964	ug/l #	19
42) 1,2-Dichloroethane	8.677	62	885	0.222	ug/l #	76
43) Isopropyl Acetate	8.688	43	207687	36.522	ug/l #	81
45) 1,2-Dichloropropane	9.735	63	1869	0.693	ug/l #	43
48) Methyl methacrylate	9.671	41	4344	1.697	ug/l #	14
49) 1,4-Dioxane	9.729	88	62	1.439	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	11106	3.366	ug/l #	78
53) t-1,3-Dichloropropene	10.729	75	996	0.266	ug/l #	45
54) cis-1,3-Dichloropropene	10.353	75	46472	11.605	ug/l #	70
56) Ethyl methacrylate	10.976	69	2487	2.517	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	7065	1.677	ug/l #	43
59) 2-Hexanone	11.200	43	86685	37.333	ug/l #	59
71) Bromoform	12.841	173	663	0.345	ug/l #	1
74) N-amyl acetate	12.488	43	1625	0.440	ug/l #	44
76) 1,2,3-Trichloropropane	12.847	75	77350	31.265	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	77350	84.590	ug/l #	3

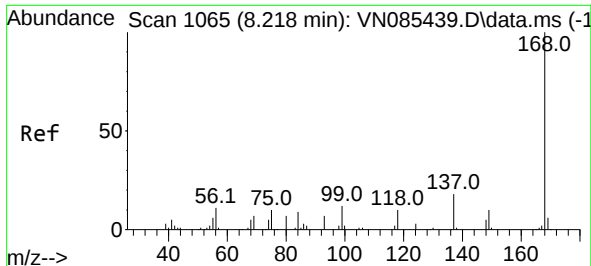
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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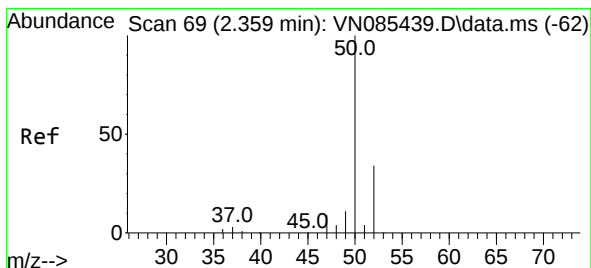
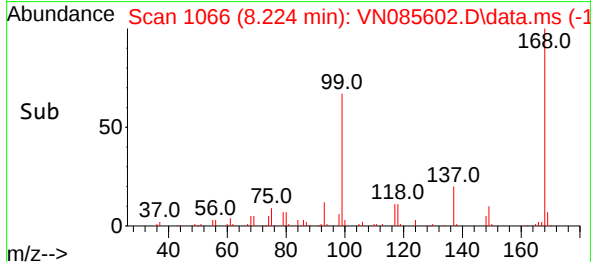
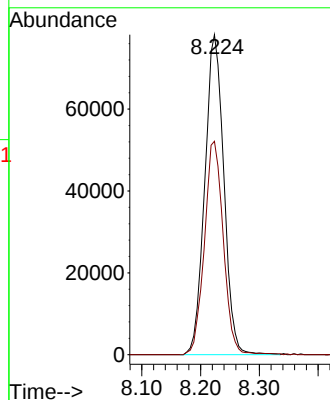
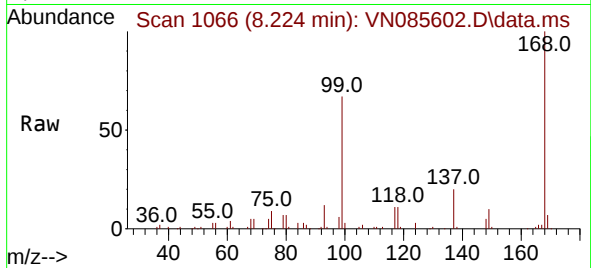




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085602.D
Acq: 31 Jan 2025 15:15

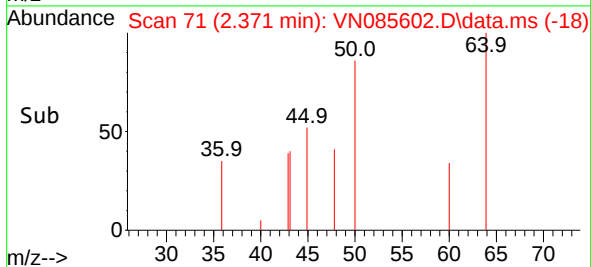
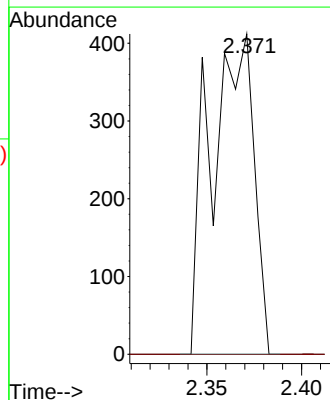
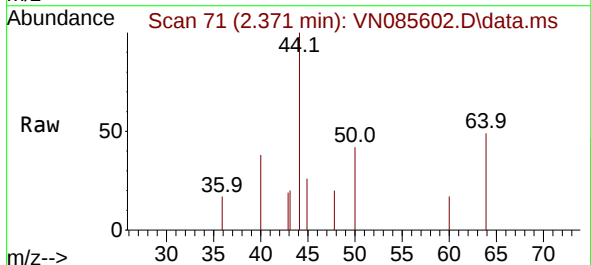
Instrument :
MSVOA_N
ClientSampleId :

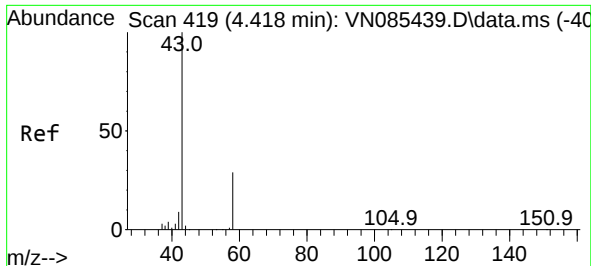
Tgt Ion:168 Resp: 175903
Ion Ratio Lower Upper
168 100
99 66.7 53.6 80.4



#3
Chloromethane
Concen: 0.255 ug/l
RT: 2.371 min Scan# 71
Delta R.T. 0.012 min
Lab File: VN085602.D
Acq: 31 Jan 2025 15:15

Tgt Ion: 50 Resp: 658
Ion Ratio Lower Upper
50 100
52 0.0 27.0 40.6#

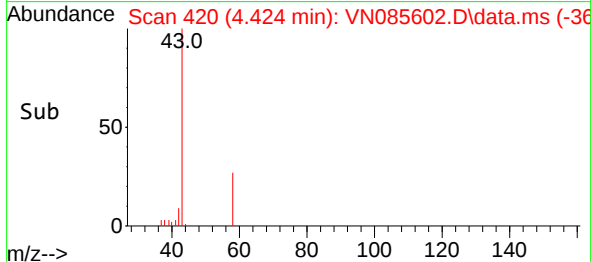
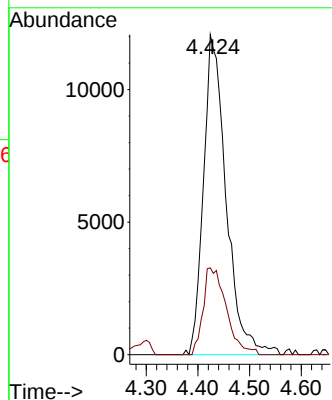
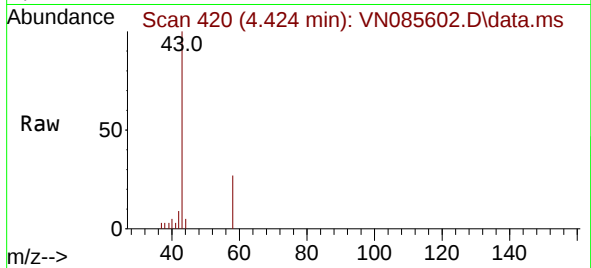




#16
Acetone
Concen: 40.105 ug/l
RT: 4.424 min Scan# 419
Delta R.T. 0.006 min
Lab File: VN085602.D
Acq: 31 Jan 2025 15:15

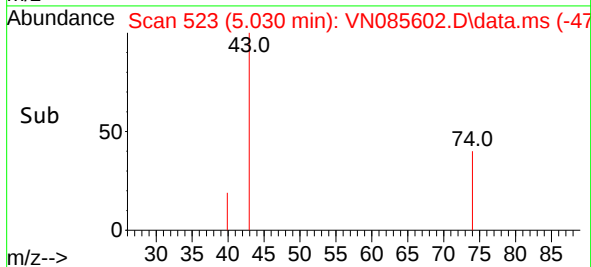
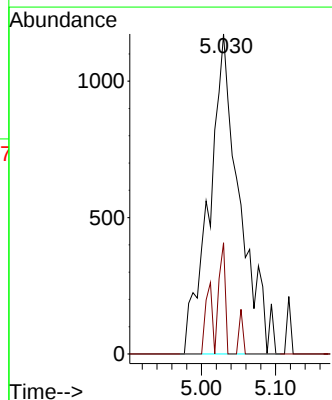
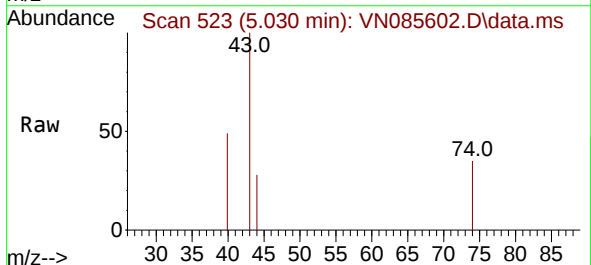
Instrument :
MSVOA_N
ClientSampleId :

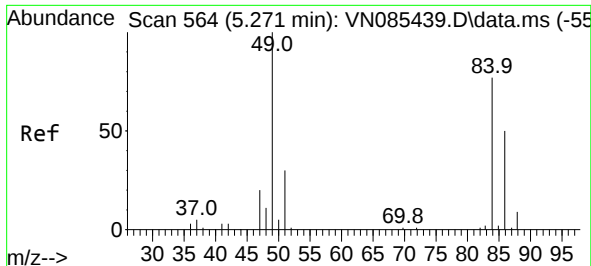
Tgt Ion: 43 Resp: 36794
Ion Ratio Lower Upper
43 100
58 27.2 23.8 35.6



#18
Methyl Acetate
Concen: 1.201 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN085602.D
Acq: 31 Jan 2025 15:15

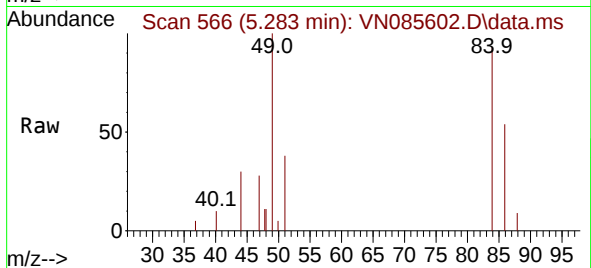
Tgt Ion: 43 Resp: 3351
Ion Ratio Lower Upper
43 100
74 7.2 18.6 28.0#



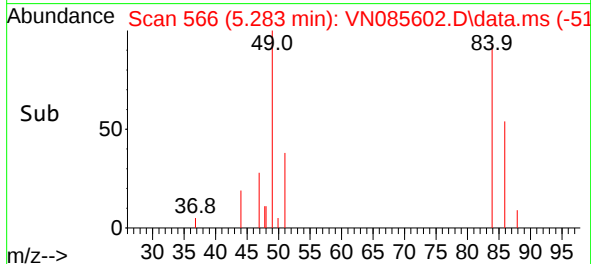
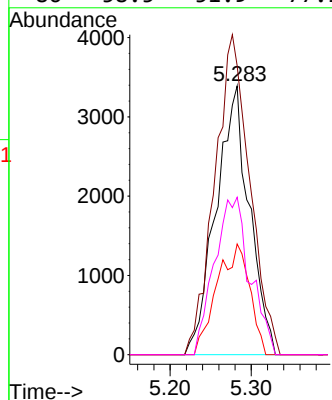


#20
Methylene Chloride
Concen: 4.264 ug/l
RT: 5.283 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN085602.D
Acq: 31 Jan 2025 15:15

Instrument :
MSVOA_N
ClientSampleId :

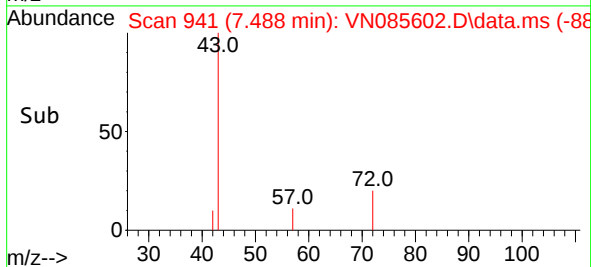
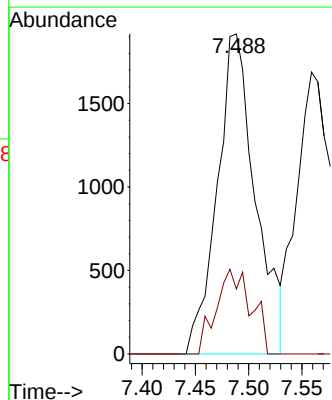
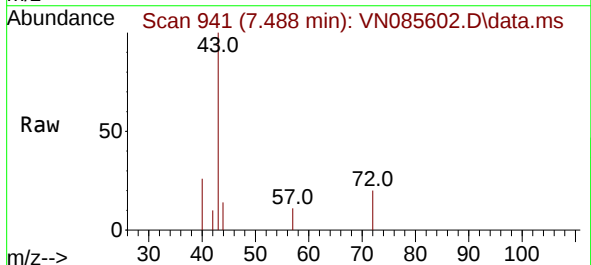


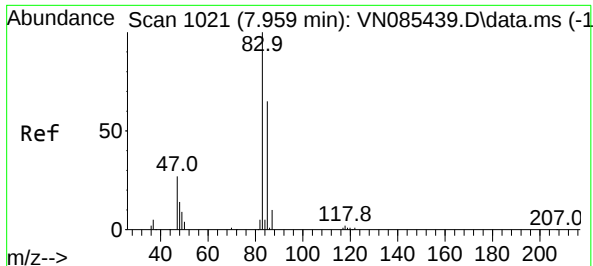
Tgt Ion:	84	Resp:	9685
Ion	Ratio	Lower	Upper
84	100		
49	107.5	104.1	156.1
51	41.2	31.0	46.4
86	58.5	51.9	77.9



#25
2-Butanone
Concen: 3.544 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN085602.D
Acq: 31 Jan 2025 15:15

Tgt Ion:	43	Resp:	4785
Ion	Ratio	Lower	Upper
43	100		
72	20.3	20.2	30.4





#30

Chloroform

Concen: 0.884 ug/l

RT: 7.965 min Scan# 10

Delta R.T. 0.006 min

Lab File: VN085602.D

Acq: 31 Jan 2025 15:15

Instrument :

MSVOA_N

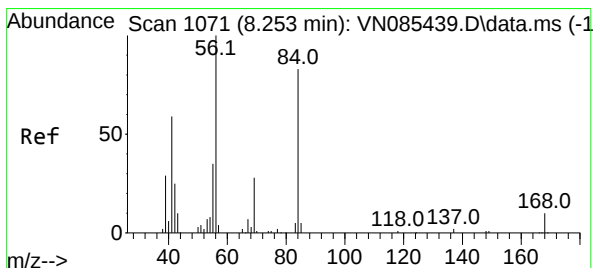
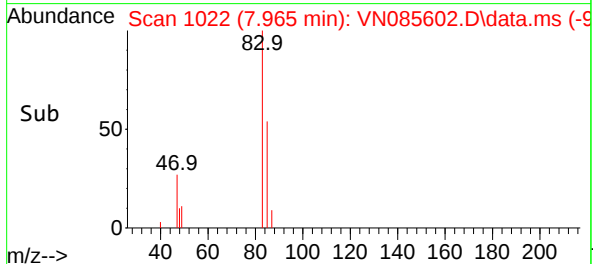
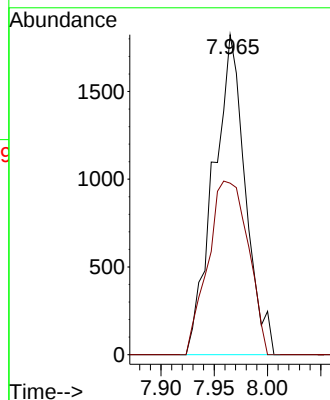
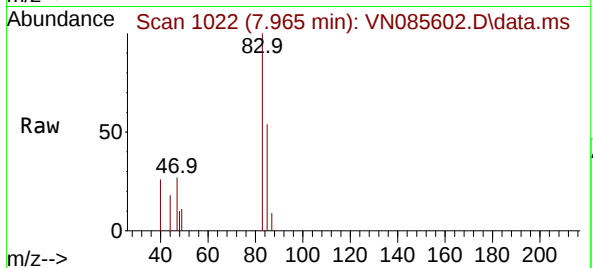
ClientSampleId :

Tgt Ion: 83 Resp: 3789

Ion Ratio Lower Upper

83 100

85 53.6 51.8 77.6



#31

Cyclohexane

Concen: 1.393 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.030 min

Lab File: VN085602.D

Acq: 31 Jan 2025 15:15

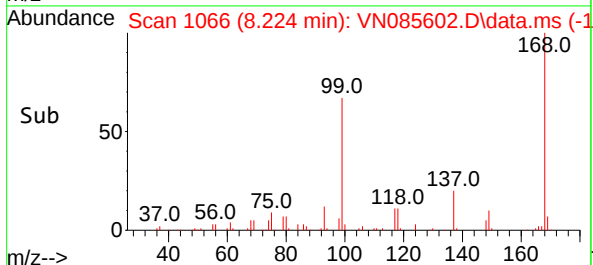
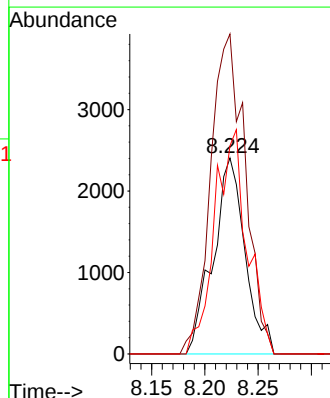
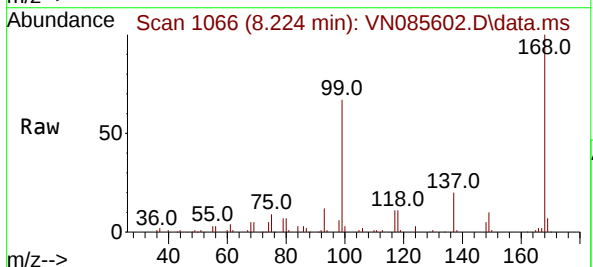
Tgt Ion: 56 Resp: 5019

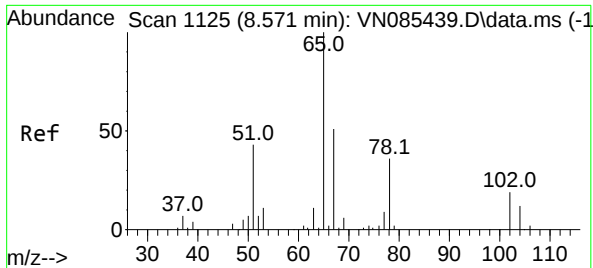
Ion Ratio Lower Upper

56 100

69 163.3 22.2 33.4#

84 106.3 66.4 99.6#





#33

1,2-Dichloroethane-d4

Concen: 58.391 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085602.D

Acq: 31 Jan 2025 15:15

Instrument :

MSVOA_N

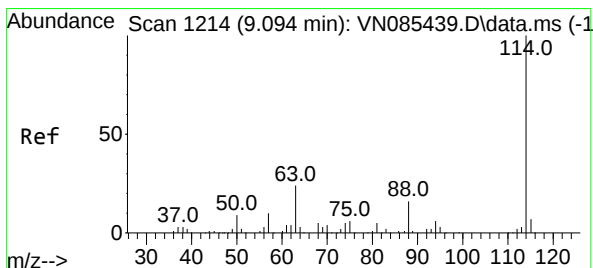
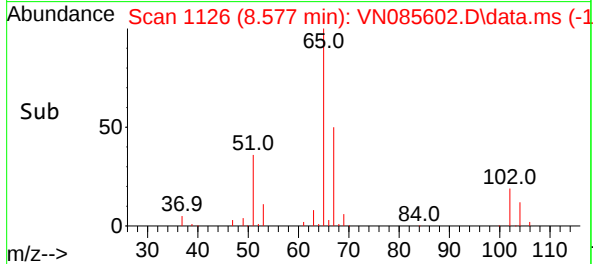
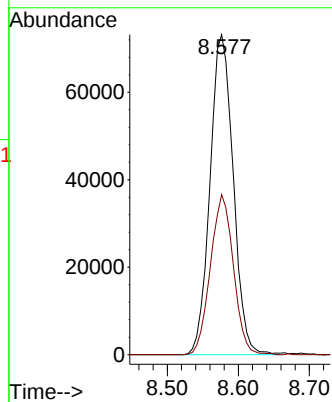
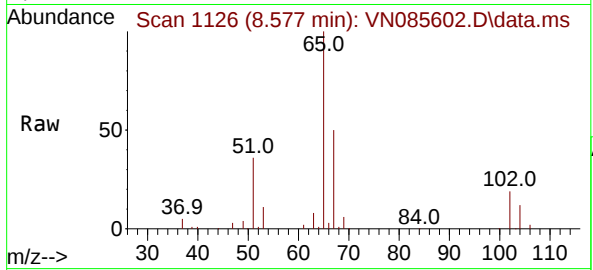
ClientSampleId :

Tgt Ion: 65 Resp: 165798

Ion Ratio Lower Upper

65 100

67 49.6 0.0 101.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085602.D

Acq: 31 Jan 2025 15:15

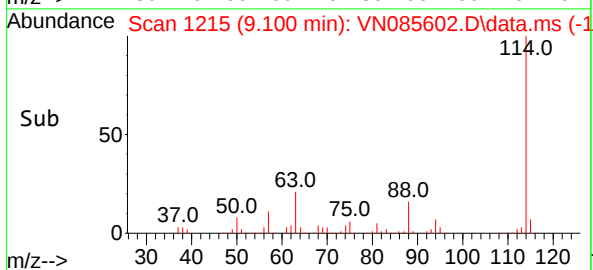
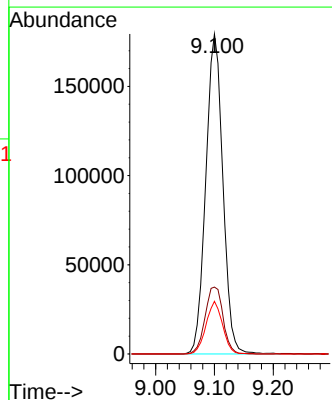
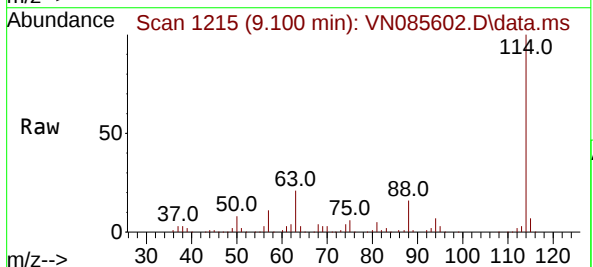
Tgt Ion: 114 Resp: 361116

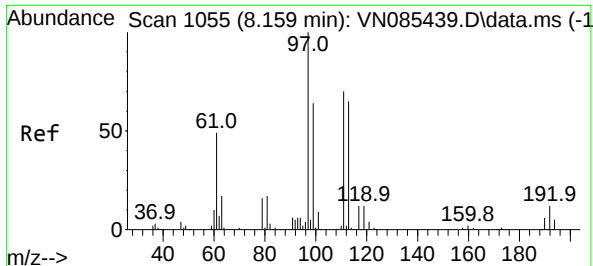
Ion Ratio Lower Upper

114 100

63 20.9 0.0 47.6

88 16.4 0.0 32.6





#35

Dibromofluoromethane

Concen: 49.313 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

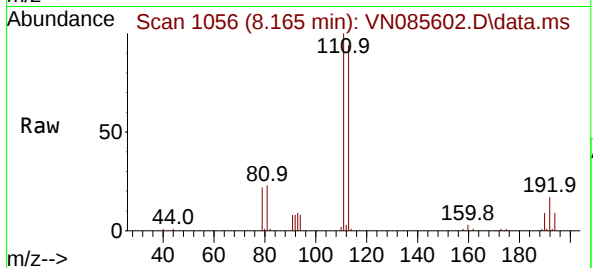
Lab File: VN085602.D

Acq: 31 Jan 2025 15:15

Instrument :

MSVOA_N

ClientSampleId :



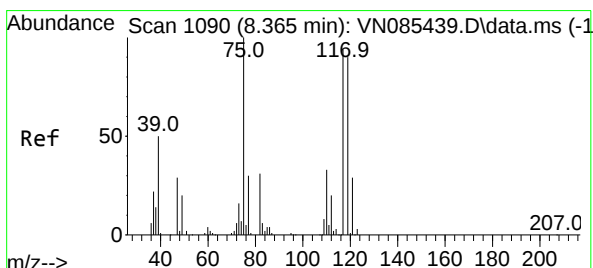
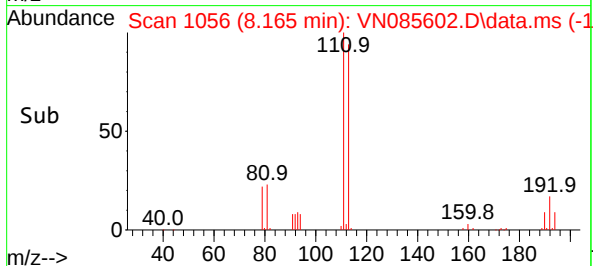
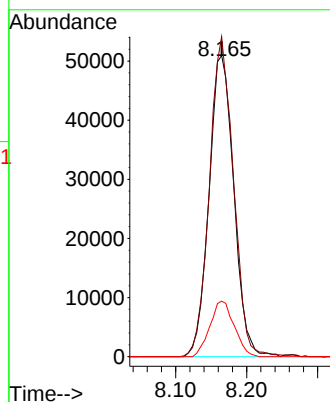
Tgt Ion:113 Resp: 123541

Ion Ratio Lower Upper

113 100

111 103.0 82.7 124.1

192 18.0 14.3 21.5



#36

1,1-Dichloropropene

Concen: 4.823 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN085602.D

Acq: 31 Jan 2025 15:15

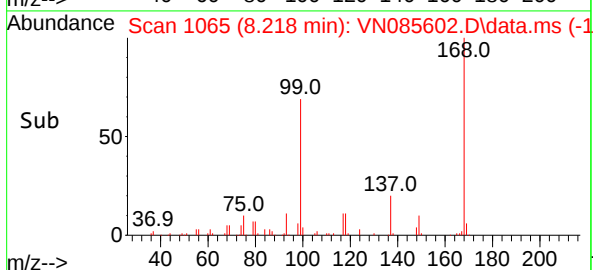
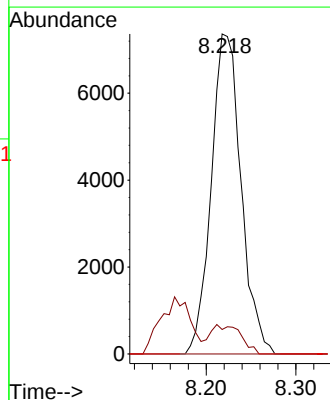
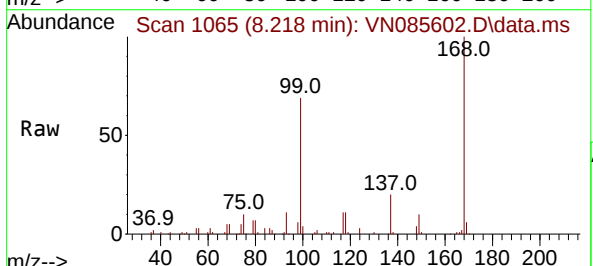
Tgt Ion: 75 Resp: 16959

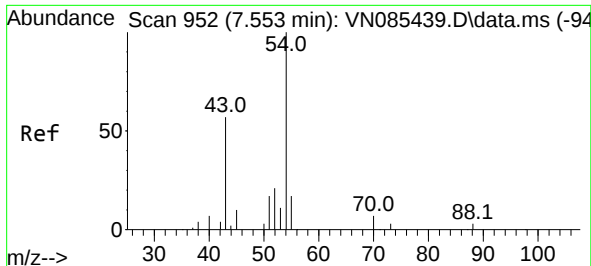
Ion Ratio Lower Upper

75 100

110 9.5 16.5 49.5#

77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 1.180 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.006 min

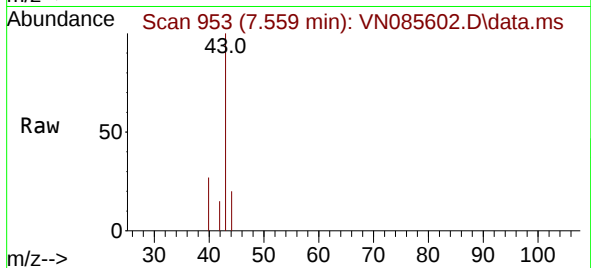
Lab File: VN085602.D

Acq: 31 Jan 2025 15:15

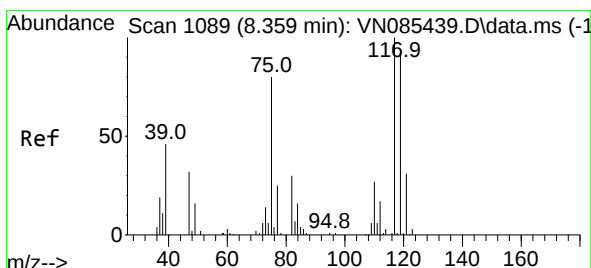
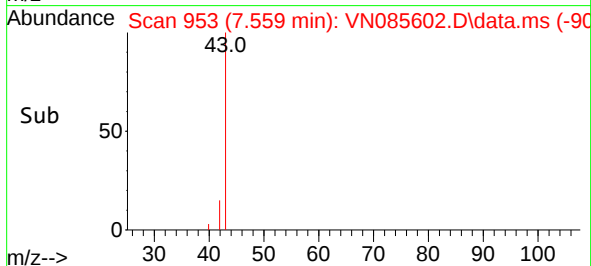
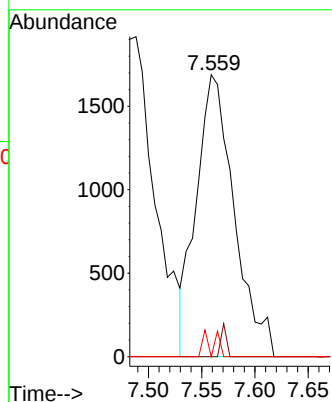
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	43	Resp:	4187
Ion	Ratio	Lower	Upper
43	100		
61	1.7	10.9	16.3#
70	2.6	7.5	11.3#



#38

Carbon Tetrachloride

Concen: 4.964 ug/l

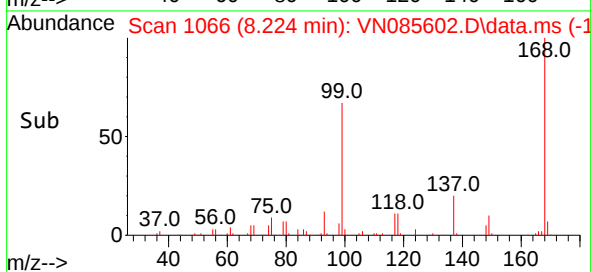
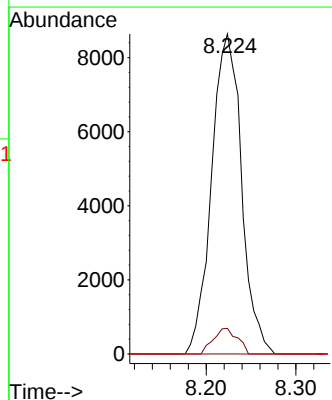
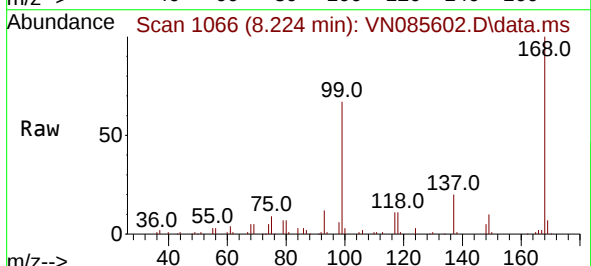
RT: 8.224 min Scan# 1066

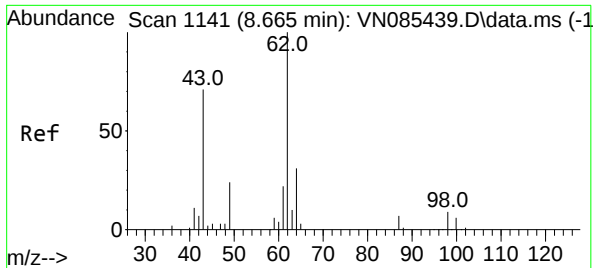
Delta R.T. -0.135 min

Lab File: VN085602.D

Acq: 31 Jan 2025 15:15

Tgt Ion:	117	Resp:	19980
Ion	Ratio	Lower	Upper
117	100		
119	8.0	75.4	113.2#
121	0.0	24.6	37.0#

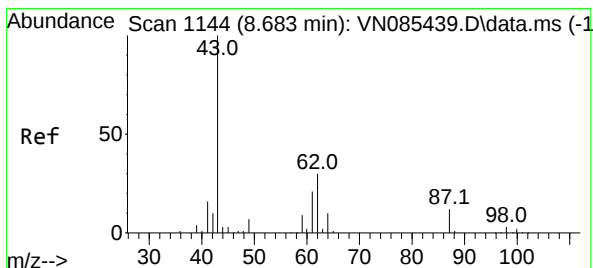
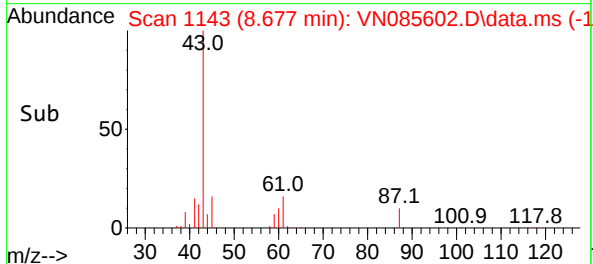
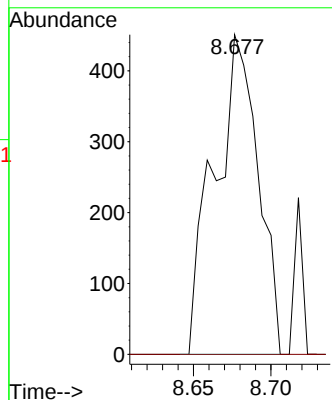
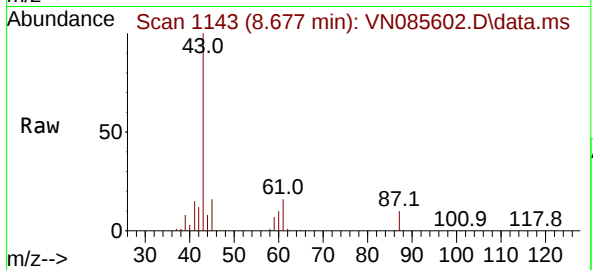




#42
 1,2-Dichloroethane
 Concen: 0.222 ug/l
 RT: 8.677 min Scan# 1143
 Delta R.T. 0.012 min
 Lab File: VN085602.D
 Acq: 31 Jan 2025 15:15

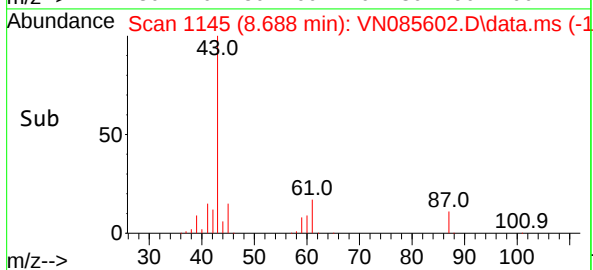
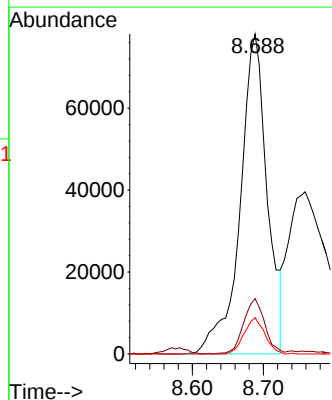
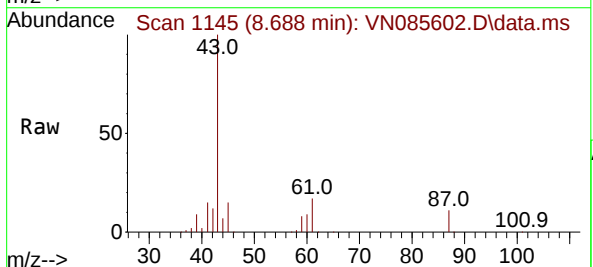
Instrument :
 MSVOA_N
 ClientSampleId :

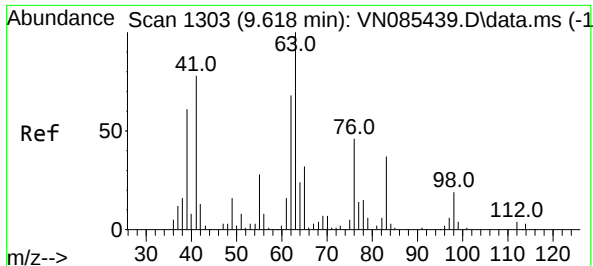
Tgt Ion: 62 Resp: 885
 Ion Ratio Lower Upper
 62 100
 98 0.0 0.0 17.0



#43
 Isopropyl Acetate
 Concen: 36.522 ug/l
 RT: 8.688 min Scan# 1145
 Delta R.T. 0.006 min
 Lab File: VN085602.D
 Acq: 31 Jan 2025 15:15

Tgt Ion: 43 Resp: 207687
 Ion Ratio Lower Upper
 43 100
 61 13.5 20.7 31.1#
 87 8.6 9.8 14.8#

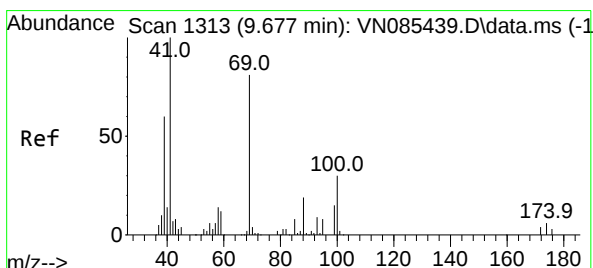
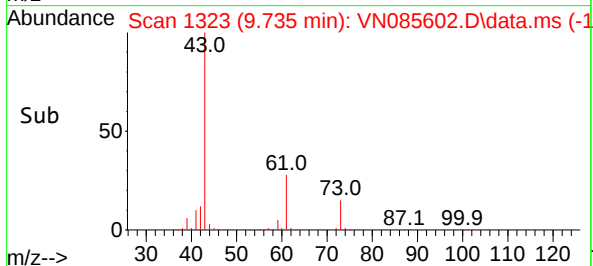
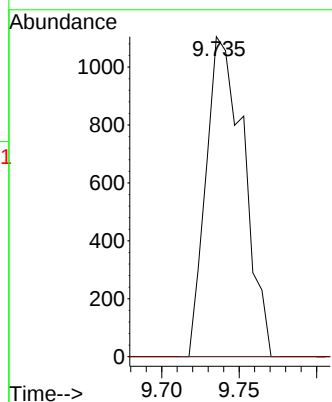
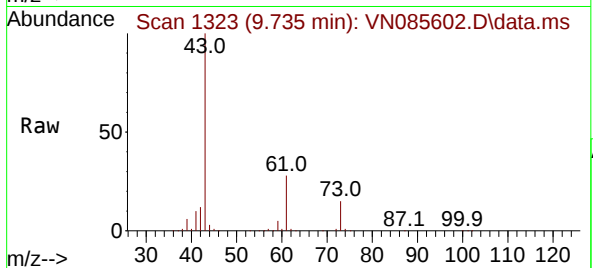




#45
1,2-Dichloropropane
Concen: 0.693 ug/l
RT: 9.735 min Scan# 11
Delta R.T. 0.118 min
Lab File: VN085602.D
Acq: 31 Jan 2025 15:15

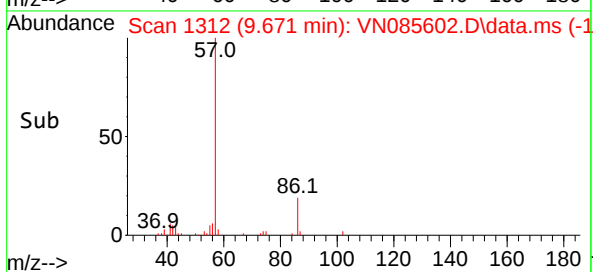
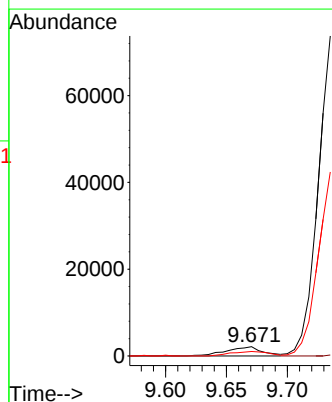
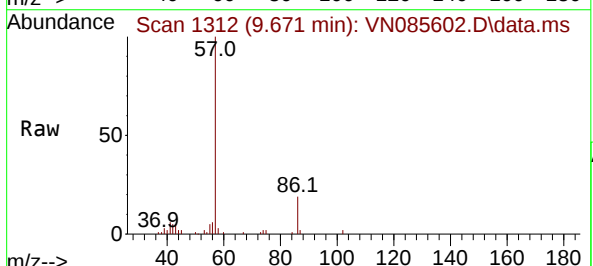
Instrument :
MSVOA_N
ClientSampleId :

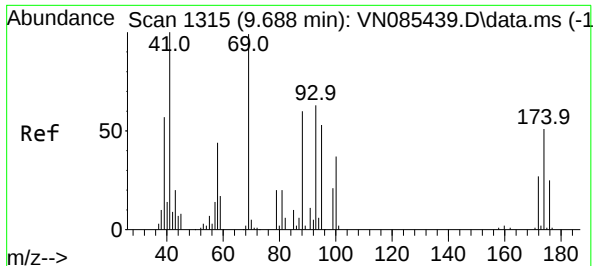
Tgt Ion: 63 Resp: 1869
Ion Ratio Lower Upper
63 100
65 0.0 25.6 38.4#



#48
Methyl methacrylate
Concen: 1.697 ug/l
RT: 9.671 min Scan# 1312
Delta R.T. -0.006 min
Lab File: VN085602.D
Acq: 31 Jan 2025 15:15

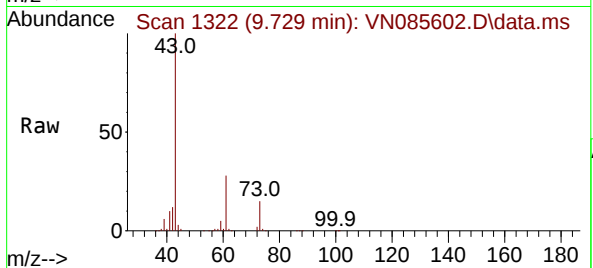
Tgt Ion: 41 Resp: 4344
Ion Ratio Lower Upper
41 100
69 0.0 64.7 97.1#
39 0.0 49.0 73.6#



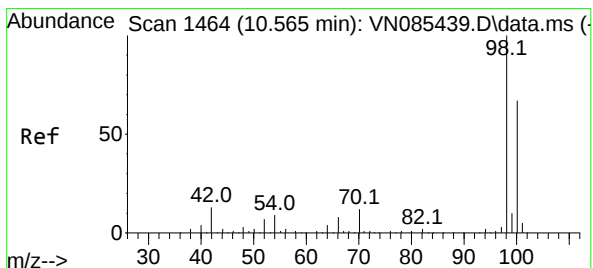
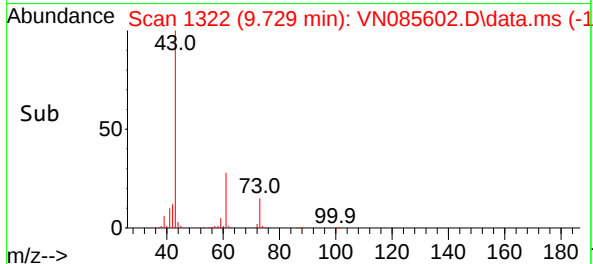
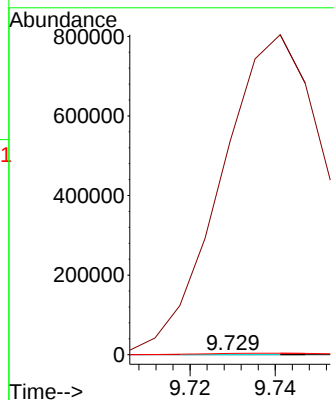


#49
1,4-Dioxane
Concen: 1.439 ug/l
RT: 9.729 min Scan# 1315
Delta R.T. 0.041 min
Lab File: VN085602.D
Acq: 31 Jan 2025 15:15

Instrument :
MSVOA_N
ClientSampleId :

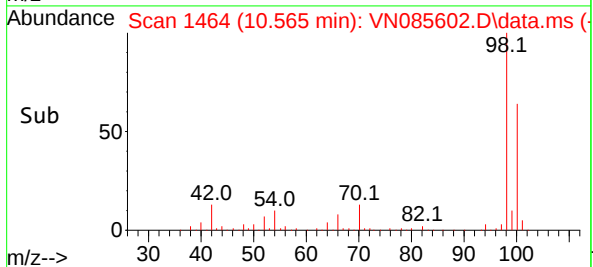
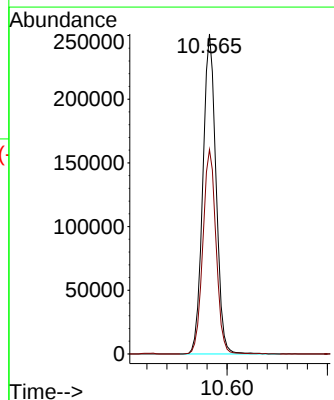
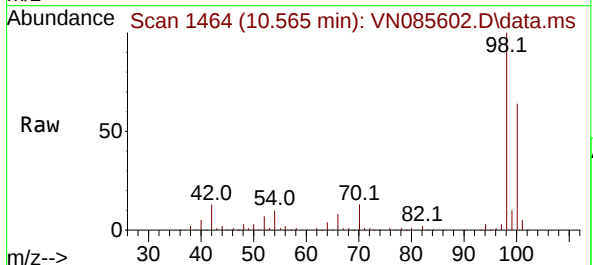


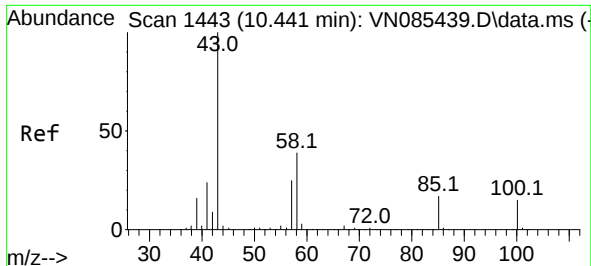
Tgt Ion: 88 Resp: 62
Ion Ratio Lower Upper
88 100
43 2320798.4 26.6 39.8#
58 12567.7 59.5 89.3#



#50
Toluene-d8
Concen: 51.392 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085602.D
Acq: 31 Jan 2025 15:15

Tgt Ion: 98 Resp: 457451
Ion Ratio Lower Upper
98 100
100 63.9 52.2 78.4

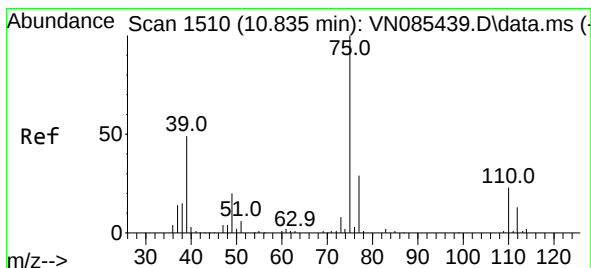
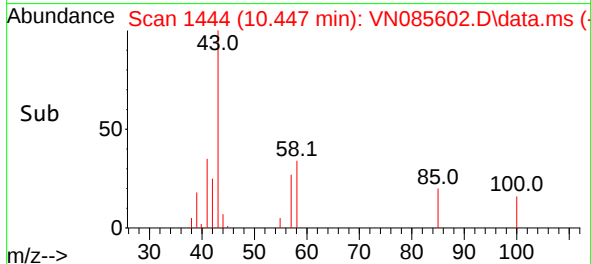
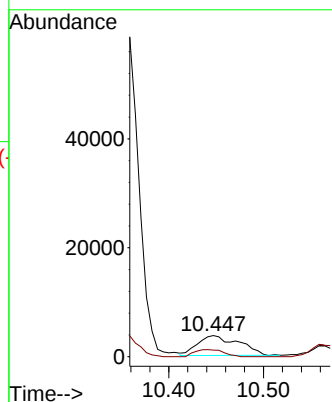
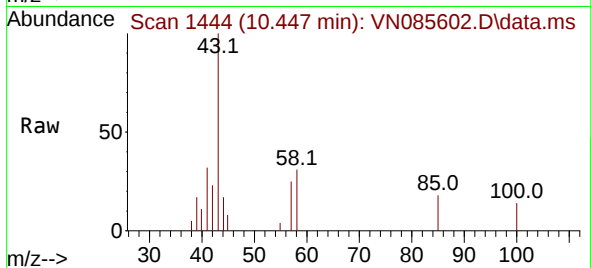




#51
4-Methyl-2-Pentanone
Concen: 3.366 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN085602.D
Acq: 31 Jan 2025 15:15

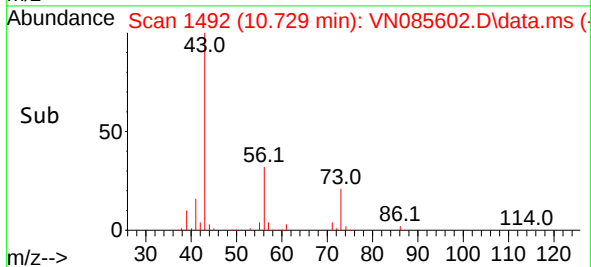
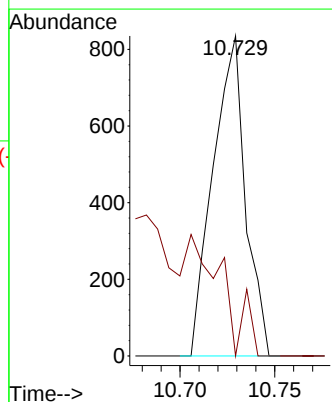
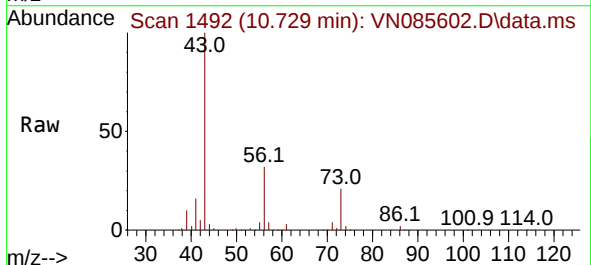
Instrument :
MSVOA_N
ClientSampleId :

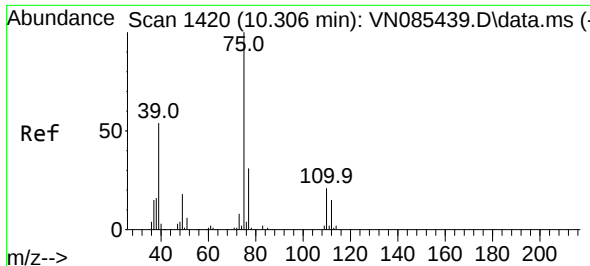
Tgt Ion: 43 Resp: 11106
Ion Ratio Lower Upper
43 100
58 25.0 30.5 45.7#



#53
t-1,3-Dichloropropene
Concen: 0.266 ug/l
RT: 10.729 min Scan# 1492
Delta R.T. -0.106 min
Lab File: VN085602.D
Acq: 31 Jan 2025 15:15

Tgt Ion: 75 Resp: 996
Ion Ratio Lower Upper
75 100
77 0.0 23.5 35.3#

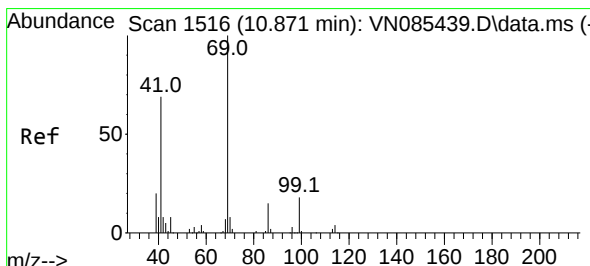
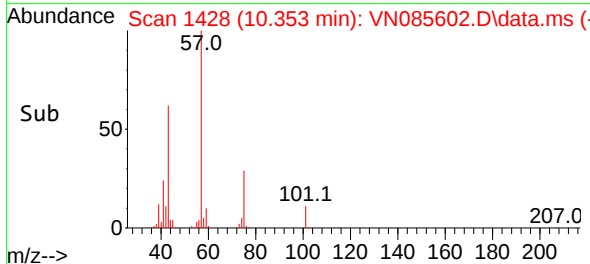
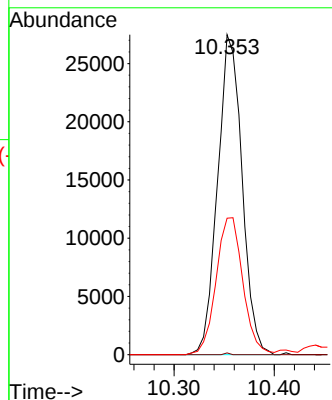
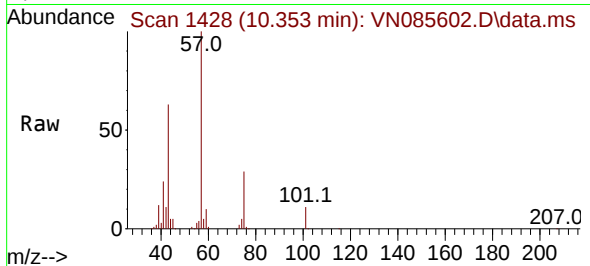




#54
 cis-1,3-Dichloropropene
 Concen: 11.605 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN085602.D
 Acq: 31 Jan 2025 15:15

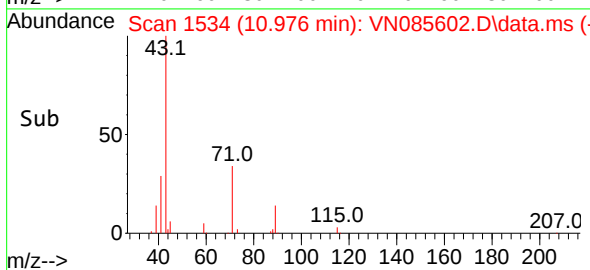
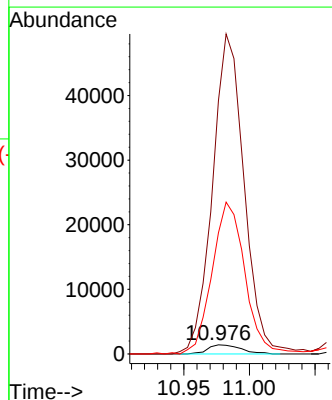
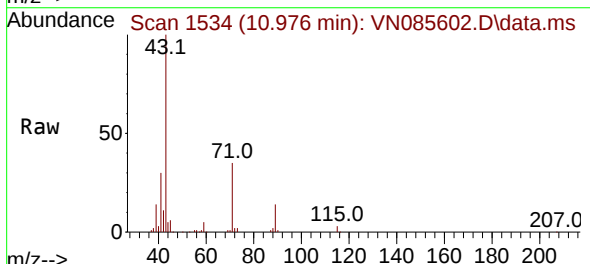
Instrument :
 MSVOA_N
 ClientSampleId :

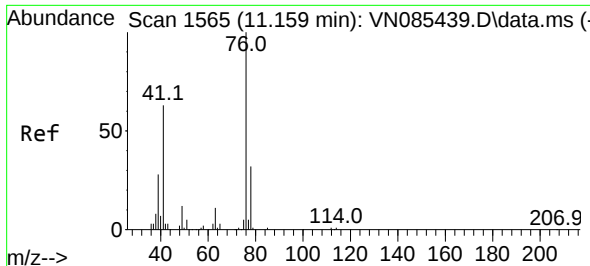
Tgt Ion: 75 Resp: 46472
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.0 37.4#
 39 42.6 43.1 64.7#



#56
 Ethyl methacrylate
 Concen: 2.517 ug/l
 RT: 10.976 min Scan# 1534
 Delta R.T. 0.105 min
 Lab File: VN085602.D
 Acq: 31 Jan 2025 15:15

Tgt Ion: 69 Resp: 2487
 Ion Ratio Lower Upper
 69 100
 41 3354.1 54.6 82.0#
 39 1647.9 32.4 48.6#





#57

1,3-Dichloropropane

Concen: 1.677 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN085602.D

Acq: 31 Jan 2025 15:15

Instrument :

MSVOA_N

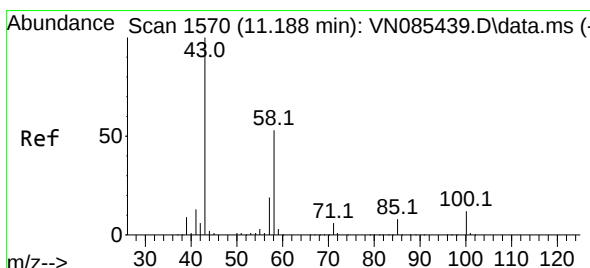
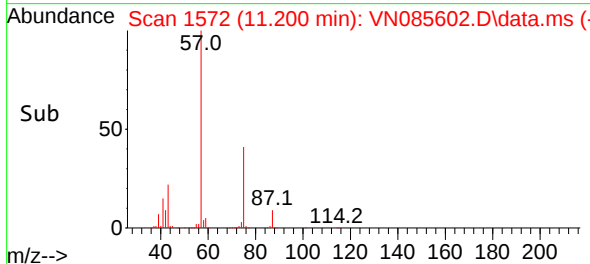
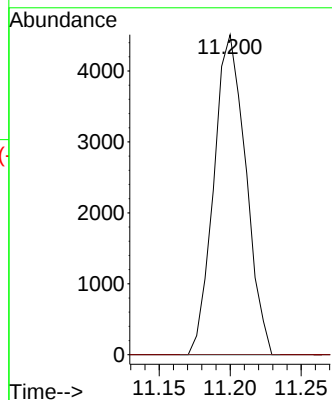
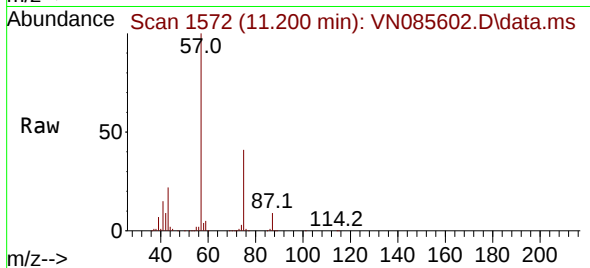
ClientSampleId :

Tgt Ion: 76 Resp: 7065

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 37.333 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.012 min

Lab File: VN085602.D

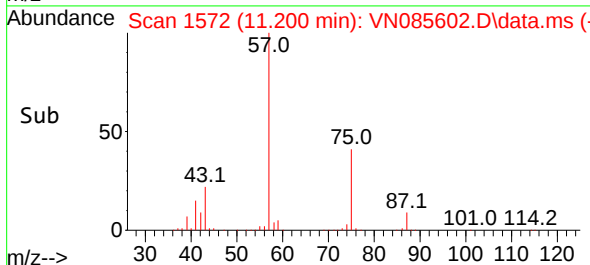
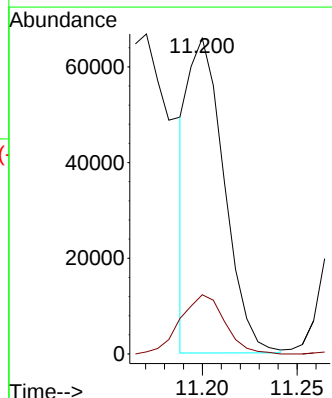
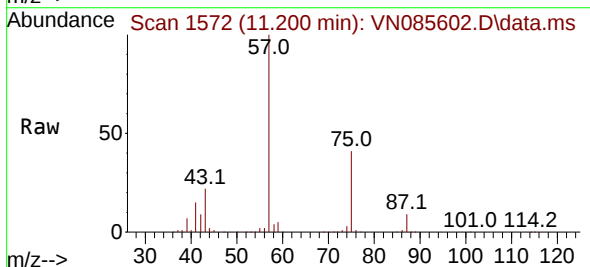
Acq: 31 Jan 2025 15:15

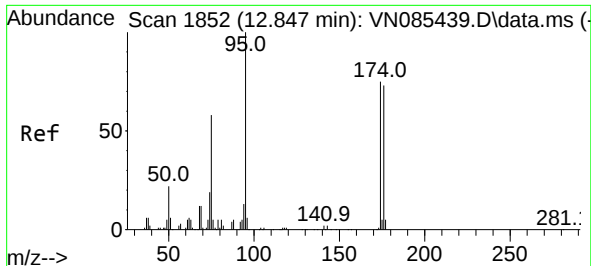
Tgt Ion: 43 Resp: 86685

Ion Ratio Lower Upper

43 100

58 23.4 26.2 78.6#

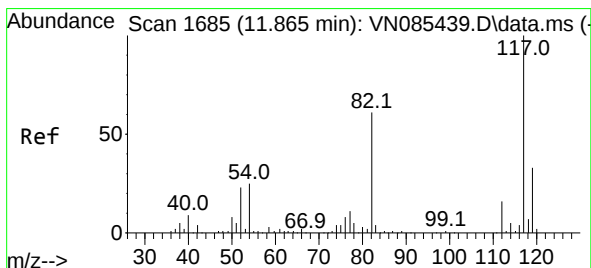
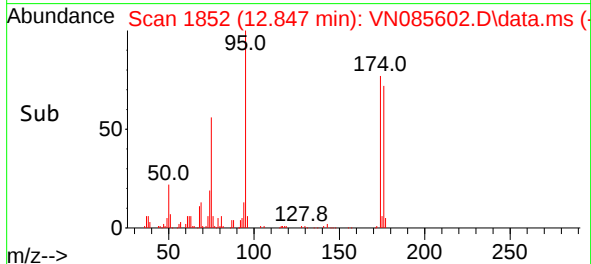
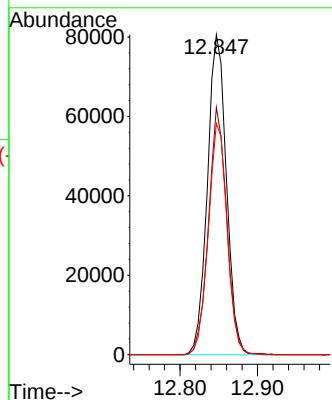
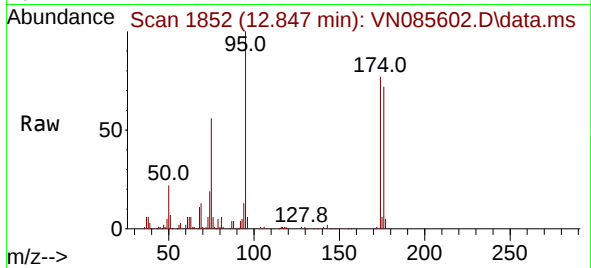




#62
4-Bromofluorobenzene
Concen: 45.040 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085602.D
Acq: 31 Jan 2025 15:15

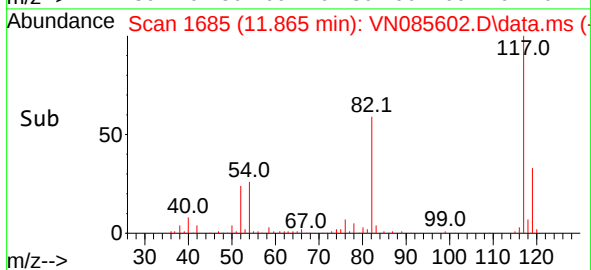
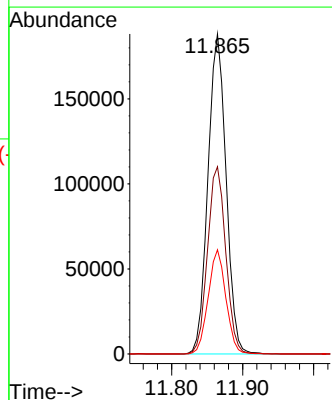
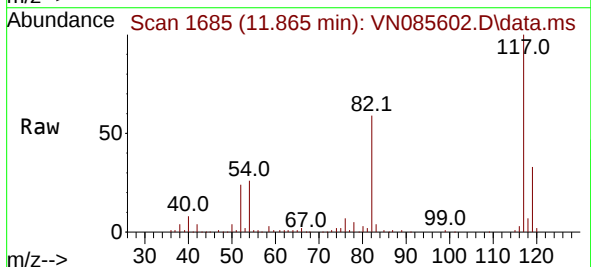
Instrument :
MSVOA_N
ClientSampleId :

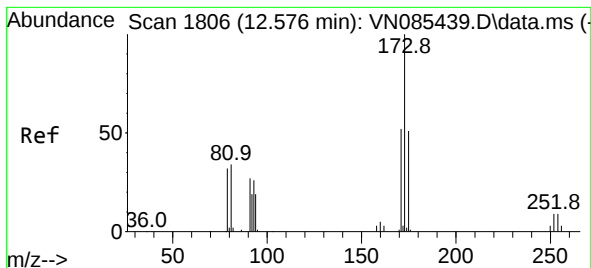
Tgt Ion: 95 Resp: 137139
Ion Ratio Lower Upper
95 100
174 74.1 0.0 145.0
176 71.3 0.0 142.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN085602.D
Acq: 31 Jan 2025 15:15

Tgt Ion: 117 Resp: 333777
Ion Ratio Lower Upper
117 100
82 58.5 48.6 72.8
119 32.5 26.6 39.8





#71

Bromoform

Concen: 0.345 ug/l

RT: 12.841 min Scan# 1851

Delta R.T. 0.265 min

Lab File: VN085602.D

Acq: 31 Jan 2025 15:15

Instrument :

MSVOA_N

ClientSampleId :

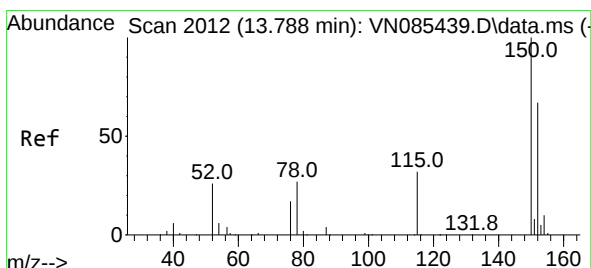
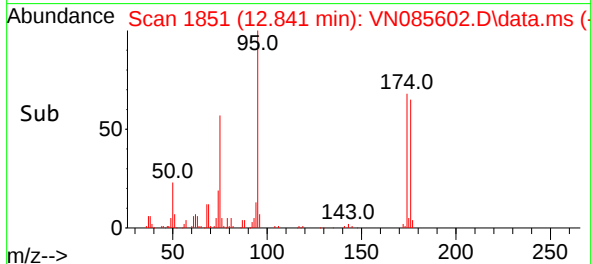
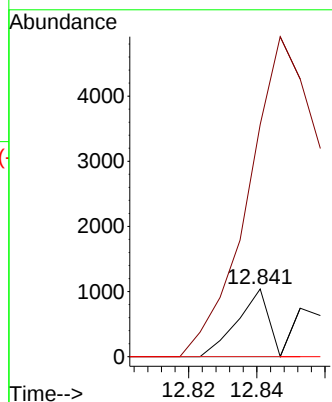
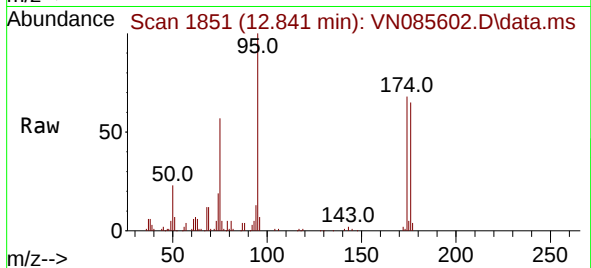
Tgt Ion:173 Resp: 663

Ion Ratio Lower Upper

173 100

175 841.9 24.4 73.2#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN085602.D

Acq: 31 Jan 2025 15:15

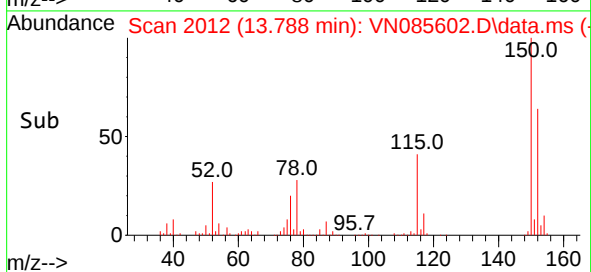
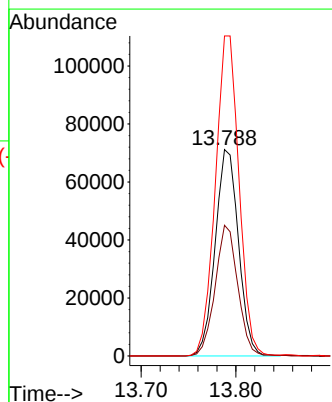
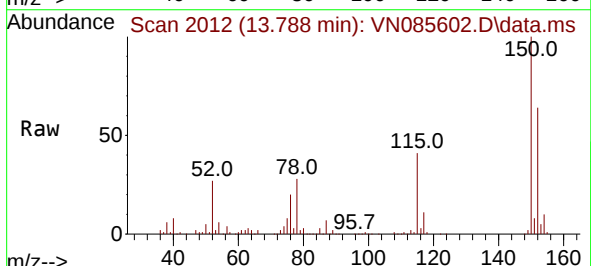
Tgt Ion:152 Resp: 121720

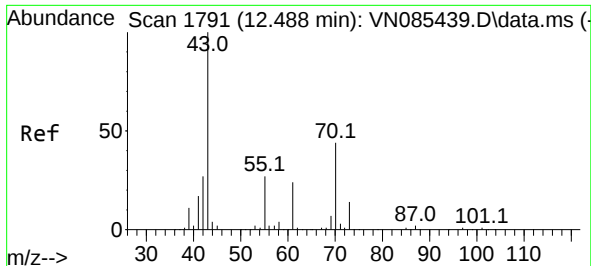
Ion Ratio Lower Upper

152 100

115 61.6 31.1 93.3

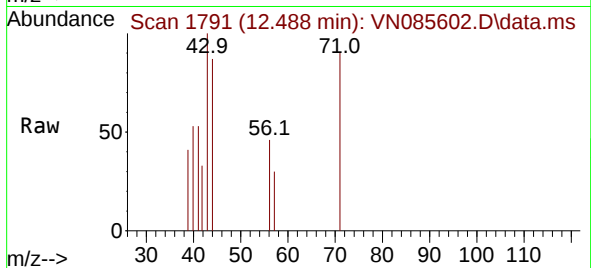
150 157.2 0.0 343.6



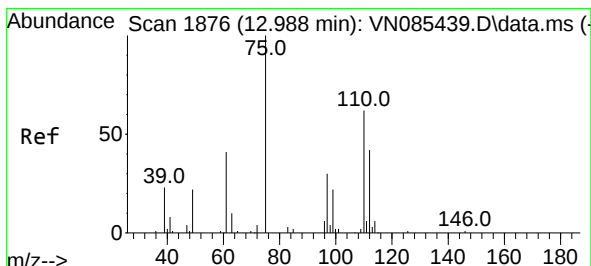
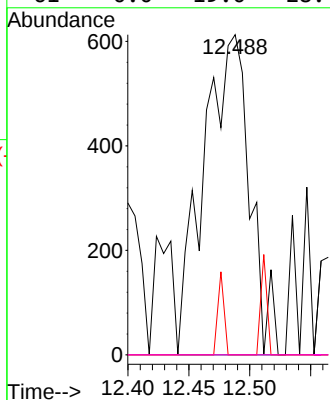
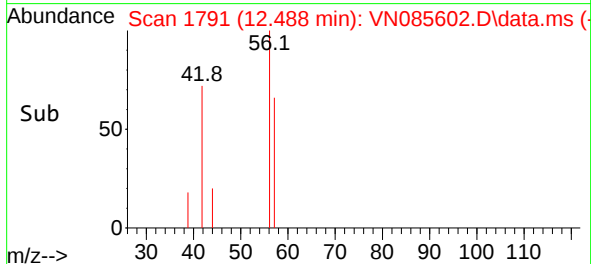


#74
N-amy1 acetate
Concen: 0.440 ug/l
RT: 12.488 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085602.D
Acq: 31 Jan 2025 15:15

Instrument :
MSVOA_N
ClientSampleId :

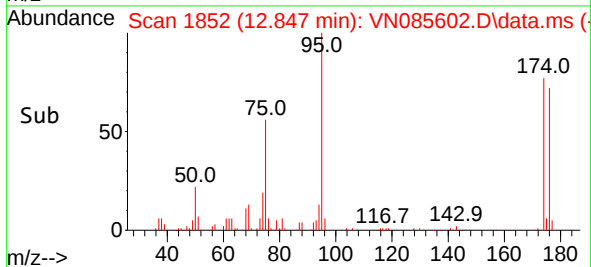
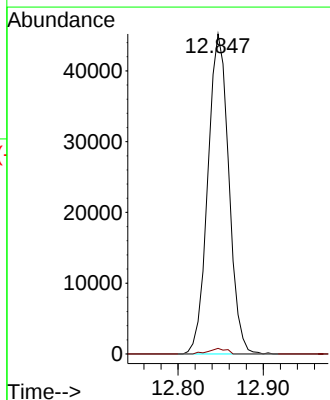
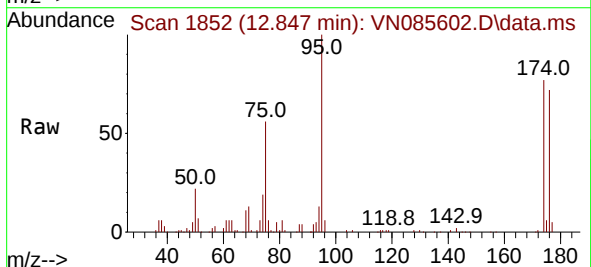


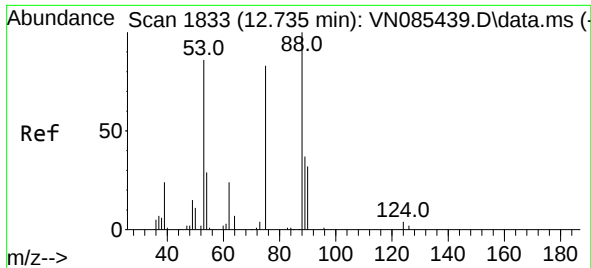
Tgt Ion: 43	Resp: 1625
Ion Ratio	Lower Upper
43 100	
70 0.0	34.0 51.0#
55 3.4	21.4 32.2#
61 0.0	19.0 28.4#



#76
1,2,3-Trichloropropane
Concen: 31.265 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN085602.D
Acq: 31 Jan 2025 15:15

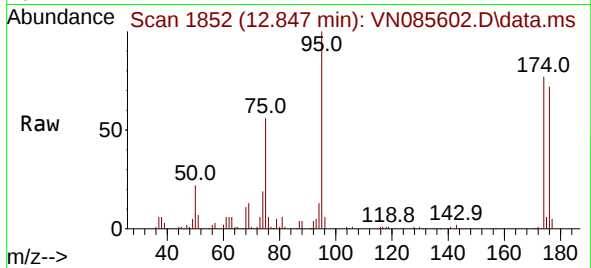
Tgt Ion: 75	Resp: 77350
Ion Ratio	Lower Upper
75 100	
77 1.5	109.7 329.2#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 84.590 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN085602.D
 Acq: 31 Jan 2025 15:15

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 77350
 Ion Ratio Lower Upper
 75 100
 53 0.1 95.6 143.4#
 89 0.0 37.0 55.6#

