

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010423\
 Data File : VN076095.D
 Acq On : 04 Jan 2023 20:43
 Operator : JC\MD
 Sample : 01009-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-4

Quant Time: Jan 05 01:28:53 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121422W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 14 13:03:41 2022
 Response via : Initial Calibration

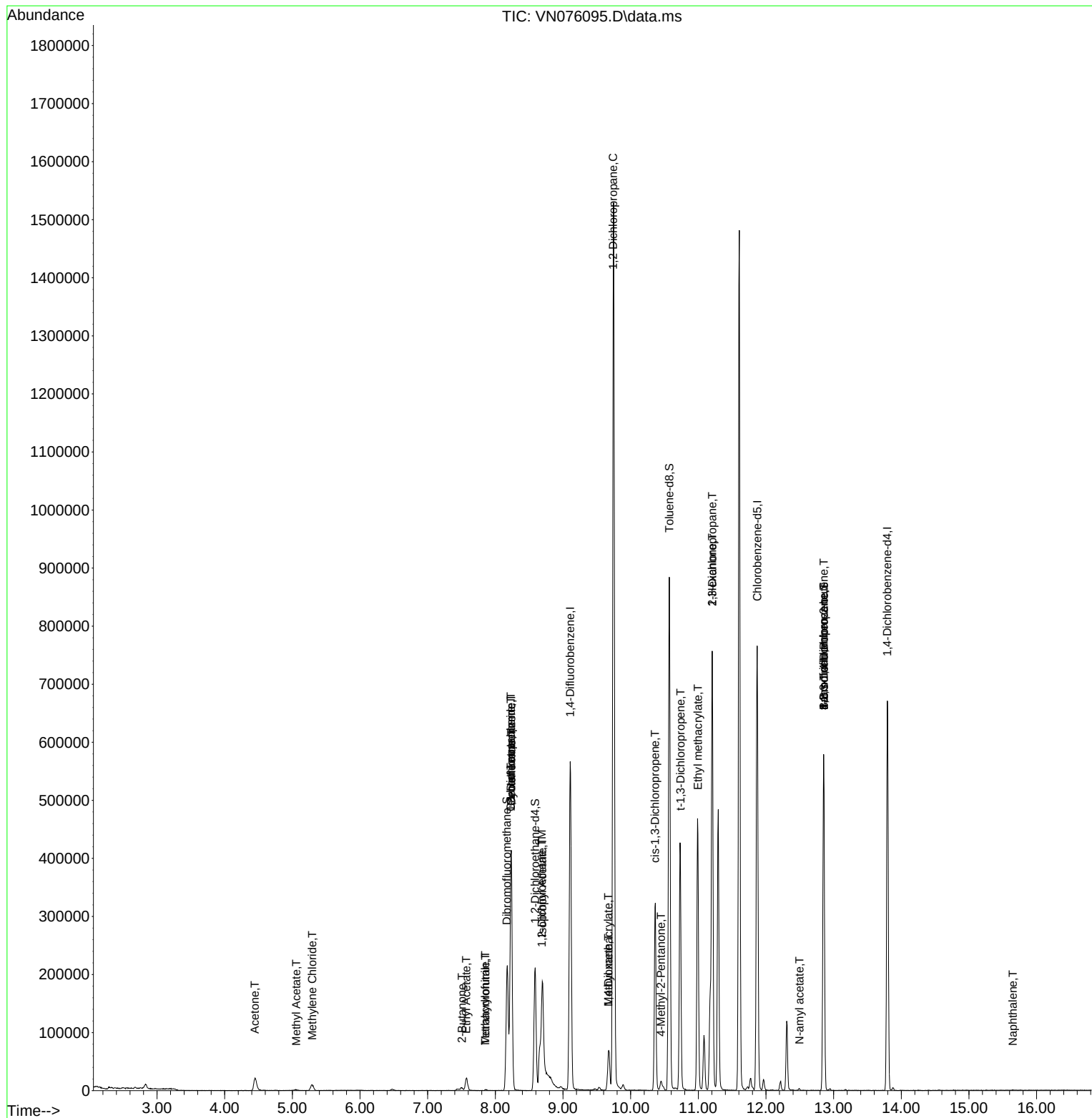
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.235	168	320096	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	523213	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	470608	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	192756	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	172392	49.505	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	99.000%
35) Dibromofluoromethane	8.171	113	153606	47.407	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	94.820%
50) Toluene-d8	10.571	98	614885	50.755	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	101.520%
62) 4-Bromofluorobenzene	12.853	95	189208	47.155	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	94.300%
Target Compounds						
					Qvalue	
16) Acetone	4.447	43	41313	34.415	ug/l	99
18) Methyl Acetate	5.059	43	2310	0.651	ug/l	98
20) Methylene Chloride	5.295	84	8606	2.066	ug/l #	90
25) 2-Butanone	7.506	43	7987	4.752	ug/l	96
29) Tetrahydrofuran	7.853	42	424	0.403	ug/l #	36
31) Cyclohexane	8.235	56	6572	1.318	ug/l #	22
36) 1,1-Dichloropropene	8.230	75	22929	5.327	ug/l #	50
37) Ethyl Acetate	7.571	43	29899	8.648	ug/l	98
38) Carbon Tetrachloride	8.230	117	31917	6.625	ug/l #	16
41) Methacrylonitrile	7.853	41	794	0.442	ug/l #	30
42) 1,2-Dichloroethane	8.688	62	1350	0.306	ug/l #	72
43) Isopropyl Acetate	8.694	43	290365	50.913	ug/l #	72
45) 1,2-Dichloropropane	9.741	63	1988	0.615	ug/l #	43
48) Methyl methacrylate	9.671	41	4084	1.590	ug/l #	6
49) 1,4-Dioxane	9.671	88	57	0.903	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	15413	4.469	ug/l #	74
53) t-1,3-Dichloropropene	10.735	75	1087	0.236	ug/l #	76
54) cis-1,3-Dichloropropene	10.359	75	64534	12.774	ug/l #	65
56) Ethyl methacrylate	10.994	69	1960	0.435	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	7965	1.430	ug/l #	42
59) 2-Hexanone	11.206	43	82953	32.980	ug/l #	52
71) Bromoform	12.853	173	1819	0.699	ug/l #	1
74) N-amyl acetate	12.494	43	1287	0.315	ug/l #	37
76) 1,2,3-Trichloropropane	12.853	75	98915	25.458	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	98915	91.634	ug/l #	12
95) Naphthalene	15.647	128	357	2.210	ug/l #	69

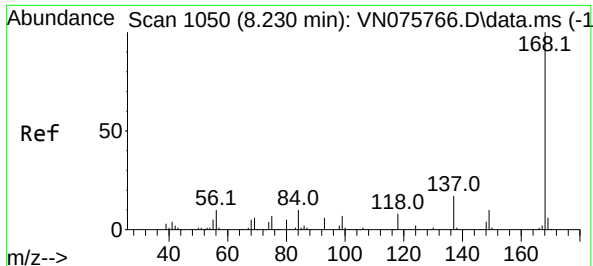
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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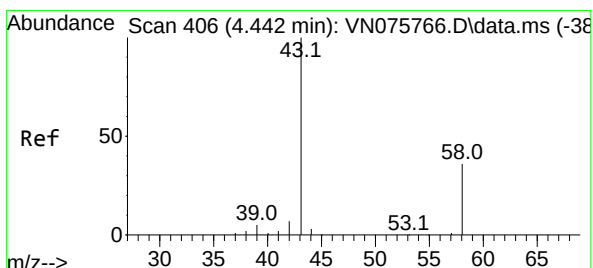
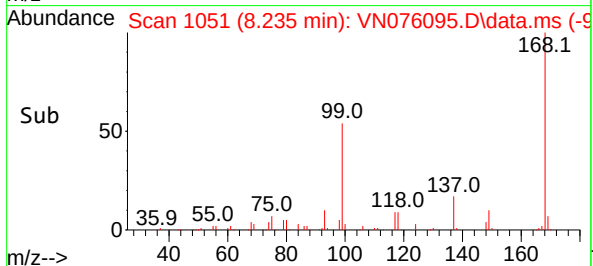
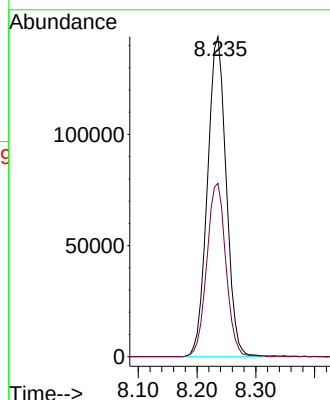
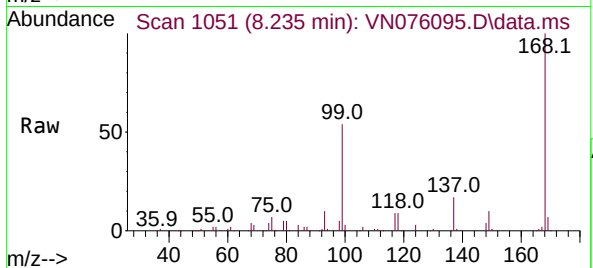




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1050
Delta R.T. 0.005 min
Lab File: VN076095.D
Acq: 04 Jan 2023 20:43

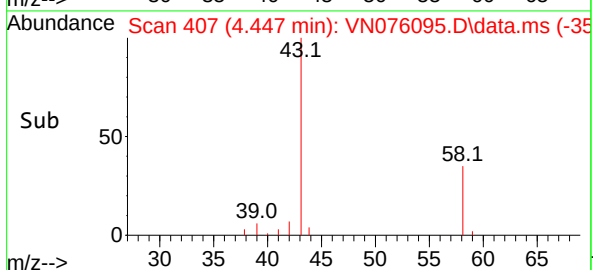
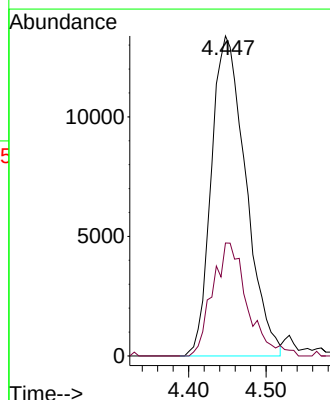
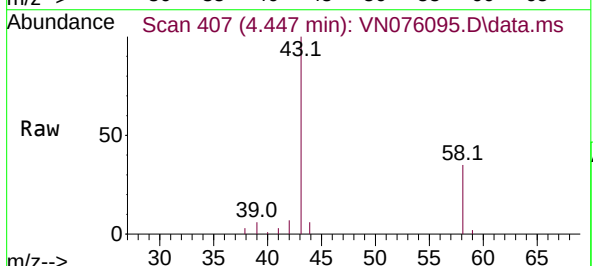
Instrument :
MSVOA_N
ClientSampleId :
TP-4

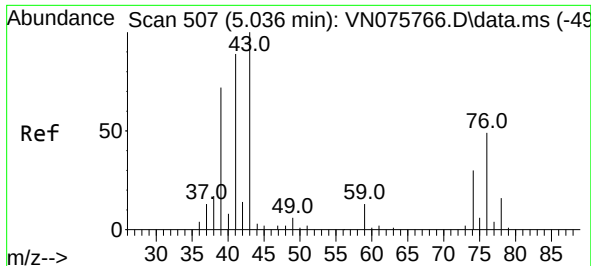
Tgt Ion:168 Resp: 320096
Ion Ratio Lower Upper
168 100
99 54.1 44.2 66.4



#16
Acetone
Concen: 34.415 ug/l
RT: 4.447 min Scan# 407
Delta R.T. 0.006 min
Lab File: VN076095.D
Acq: 04 Jan 2023 20:43

Tgt Ion: 43 Resp: 41313
Ion Ratio Lower Upper
43 100
58 35.3 28.6 43.0

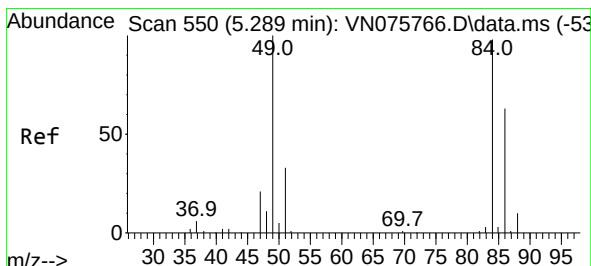
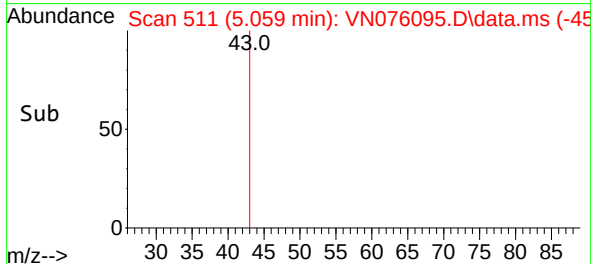
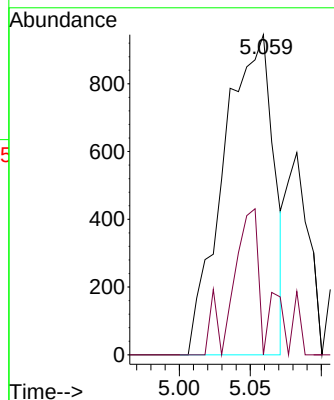
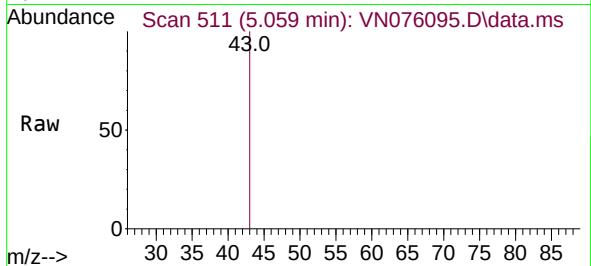




#18
Methyl Acetate
Concen: 0.651 ug/l
RT: 5.059 min Scan# 511
Delta R.T. 0.024 min
Lab File: VN076095.D
Acq: 04 Jan 2023 20:43

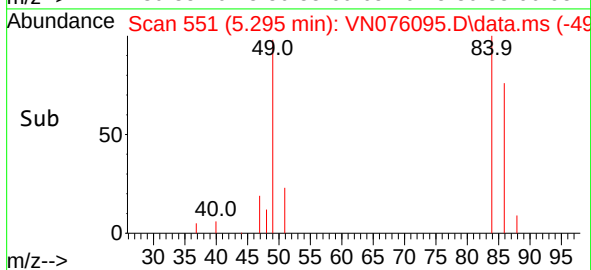
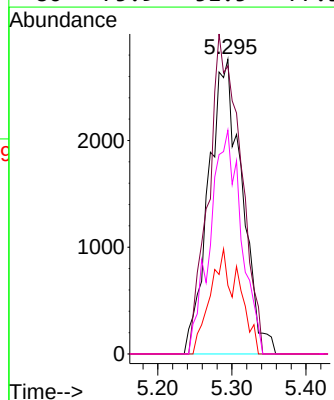
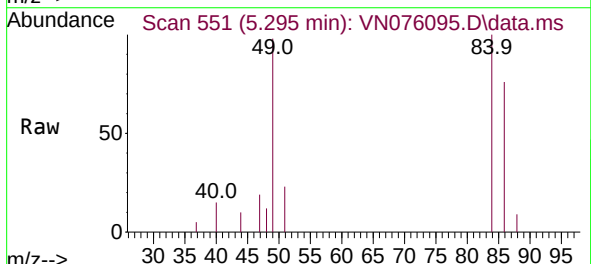
Instrument :
MSVOA_N
ClientSampleId :
TP-4

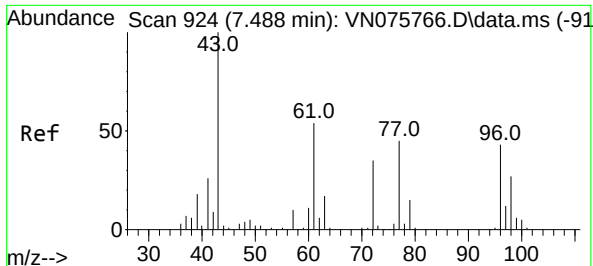
Tgt Ion: 43 Resp: 2310
Ion Ratio Lower Upper
43 100
74 28.2 23.6 35.4



#20
Methylene Chloride
Concen: 2.066 ug/l
RT: 5.295 min Scan# 551
Delta R.T. 0.006 min
Lab File: VN076095.D
Acq: 04 Jan 2023 20:43

Tgt Ion: 84 Resp: 8606
Ion Ratio Lower Upper
84 100
49 97.8 81.8 122.6
51 23.3 26.7 40.1#
86 75.9 51.5 77.3





#25

2-Butanone

Concen: 4.752 ug/l

RT: 7.506 min Scan# 91

Delta R.T. 0.018 min

Lab File: VN076095.D

Acq: 04 Jan 2023 20:43

Instrument :

MSVOA_N

ClientSampleId :

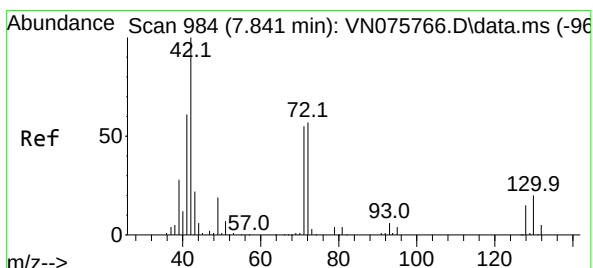
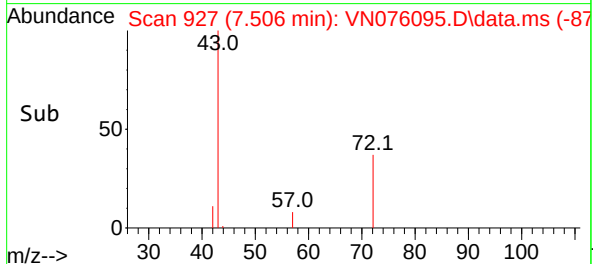
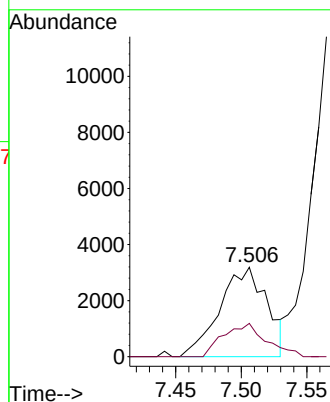
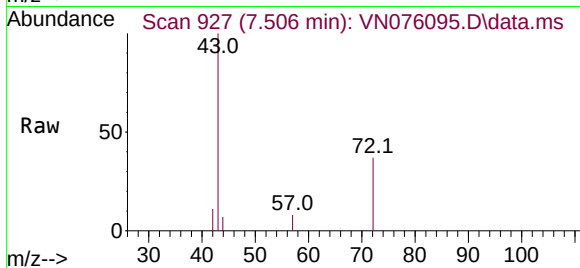
TP-4

Tgt Ion: 43 Resp: 7987

Ion Ratio Lower Upper

43 100

72 37.2 28.0 42.0



#29

Tetrahydrofuran

Concen: 0.403 ug/l

RT: 7.853 min Scan# 986

Delta R.T. 0.012 min

Lab File: VN076095.D

Acq: 04 Jan 2023 20:43

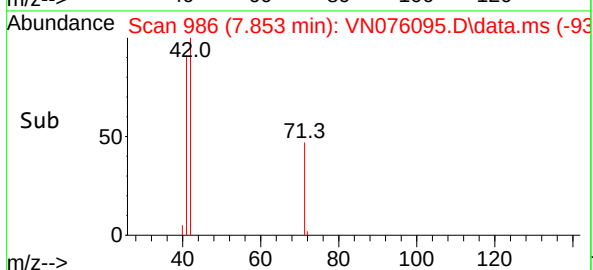
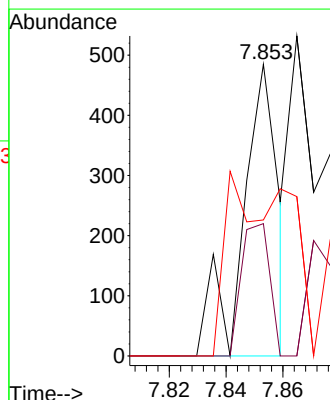
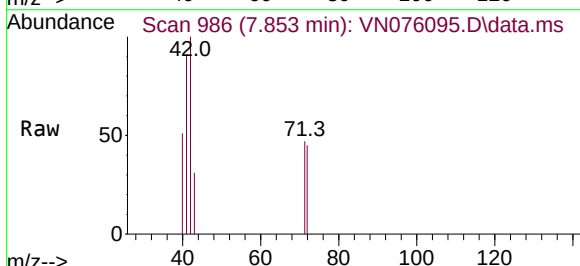
Tgt Ion: 42 Resp: 424

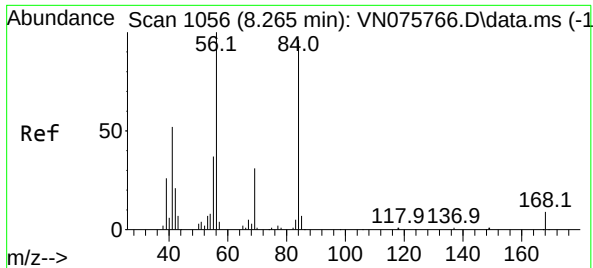
Ion Ratio Lower Upper

42 100

72 35.8 44.5 66.7#

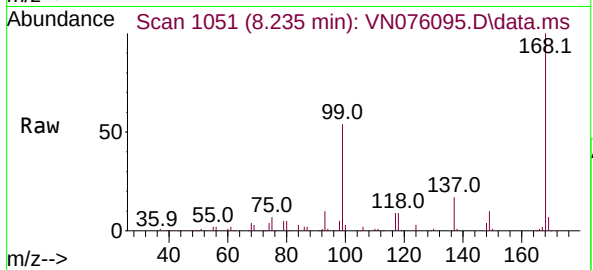
71 124.3 41.0 61.6#



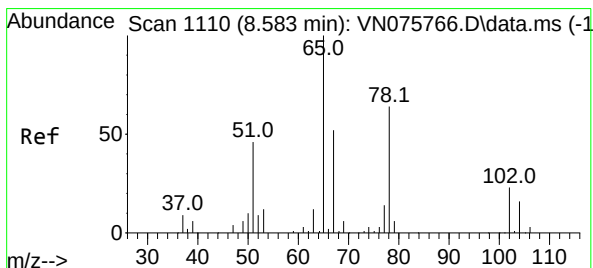
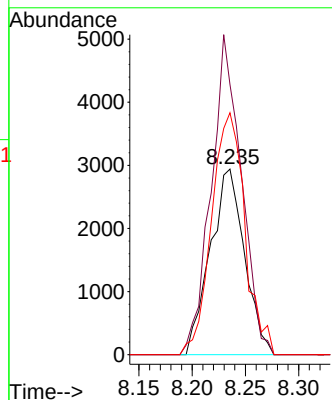
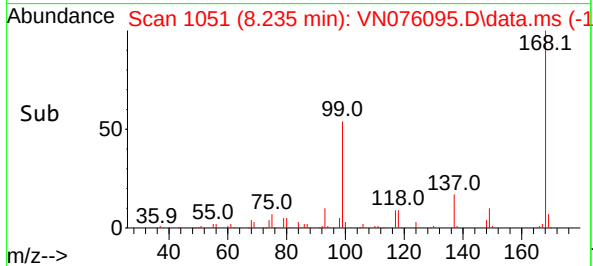


#31
Cyclohexane
Concen: 1.318 ug/l
RT: 8.235 min Scan# 1056
Delta R.T. -0.029 min
Lab File: VN076095.D
Acq: 04 Jan 2023 20:43

Instrument :
MSVOA_N
ClientSampleId :
TP-4

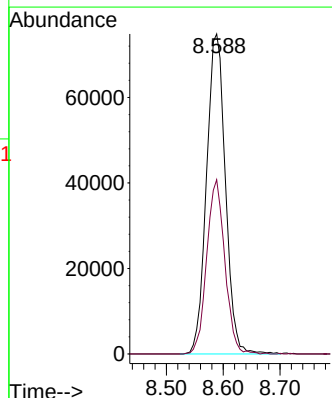
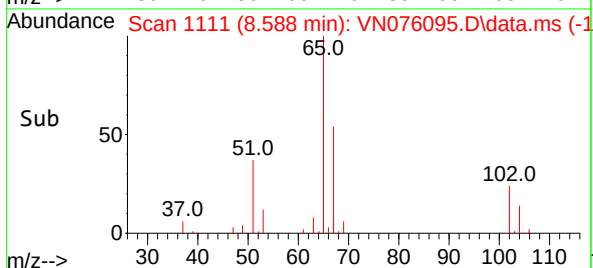
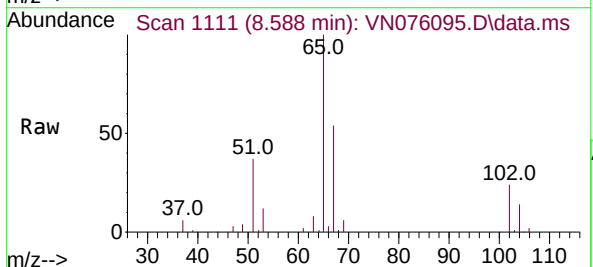


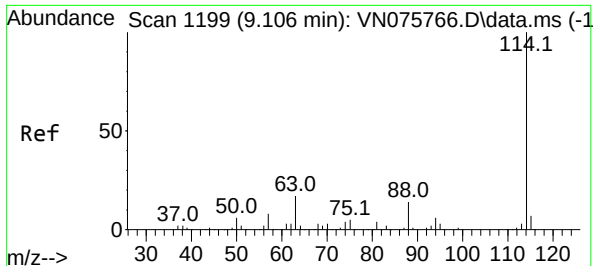
Tgt Ion: 56 Resp: 6572
Ion Ratio Lower Upper
56 100
69 145.6 24.7 37.1#
84 130.3 76.5 114.7#



#33
1,2-Dichloroethane-d4
Concen: 49.505 ug/l
RT: 8.588 min Scan# 1111
Delta R.T. 0.006 min
Lab File: VN076095.D
Acq: 04 Jan 2023 20:43

Tgt Ion: 65 Resp: 172392
Ion Ratio Lower Upper
65 100
67 52.3 0.0 103.4

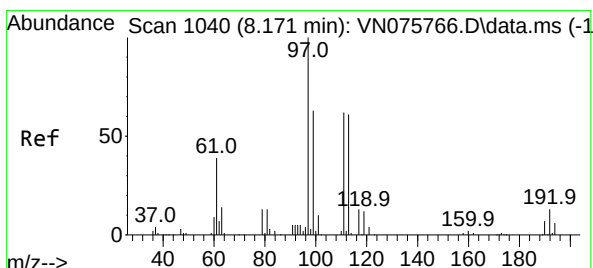
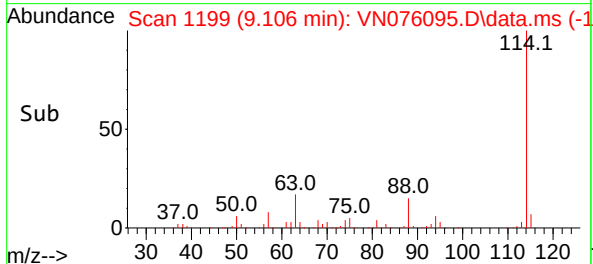
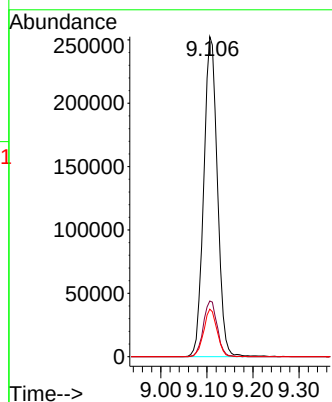
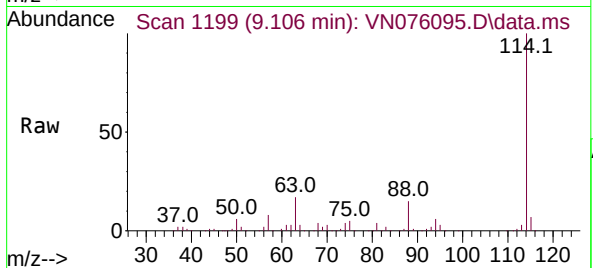




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1199
Delta R.T. 0.000 min
Lab File: VN076095.D
Acq: 04 Jan 2023 20:43

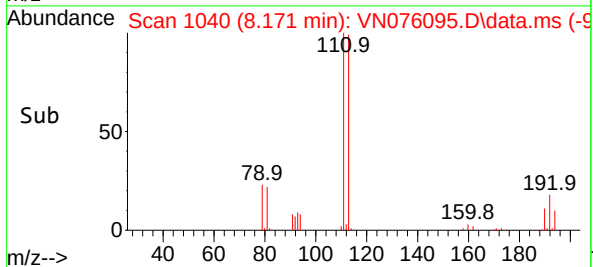
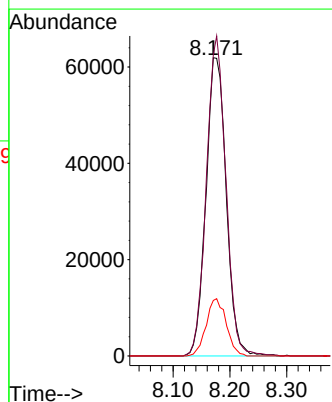
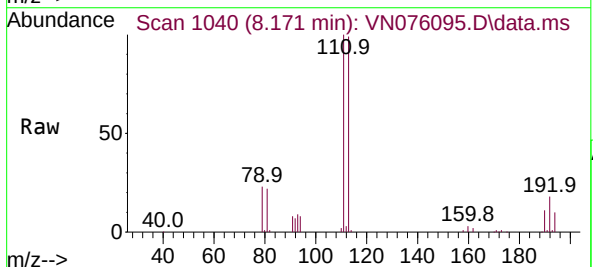
Instrument :
MSVOA_N
ClientSampleId :
TP-4

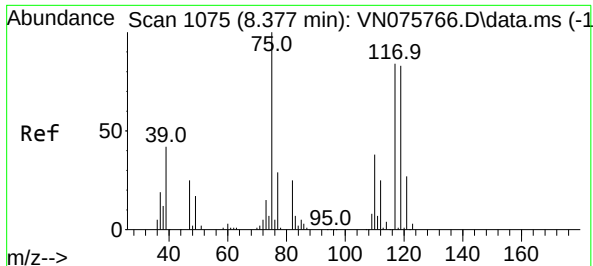
Tgt Ion:114 Resp: 523213
Ion Ratio Lower Upper
114 100
63 17.4 0.0 34.4
88 14.9 0.0 28.8



#35
Dibromofluoromethane
Concen: 47.407 ug/l
RT: 8.171 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VN076095.D
Acq: 04 Jan 2023 20:43

Tgt Ion:113 Resp: 153606
Ion Ratio Lower Upper
113 100
111 103.1 83.4 125.2
192 19.0 16.1 24.1





#36

1,1-Dichloropropene

Concen: 5.327 ug/l

RT: 8.230 min Scan# 11

Delta R.T. -0.147 min

Lab File: VN076095.D

Acq: 04 Jan 2023 20:43

Instrument :

MSVOA_N

ClientSampleId :

TP-4

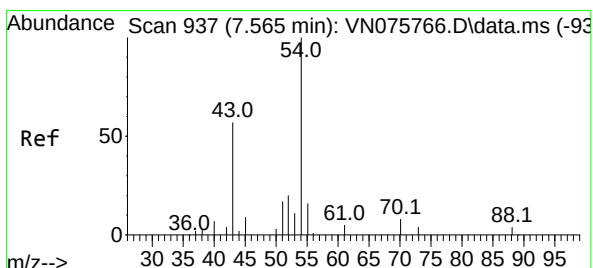
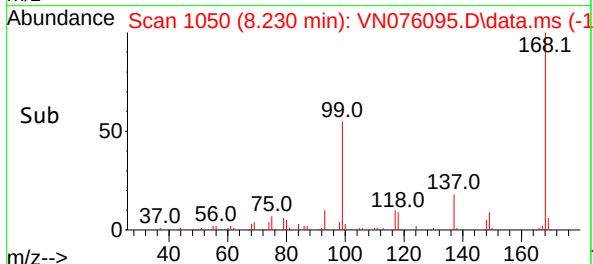
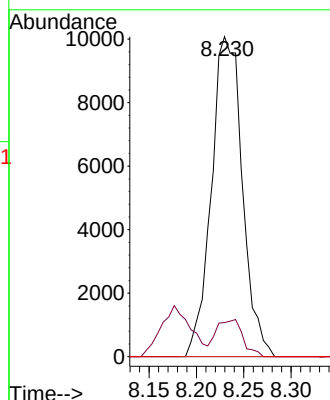
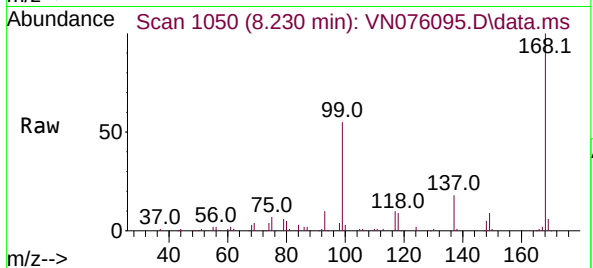
Tgt Ion: 75 Resp: 22929

Ion Ratio Lower Upper

75 100

110 10.0 18.8 56.4#

77 0.0 24.1 36.1#



#37

Ethyl Acetate

Concen: 8.648 ug/l

RT: 7.571 min Scan# 938

Delta R.T. 0.006 min

Lab File: VN076095.D

Acq: 04 Jan 2023 20:43

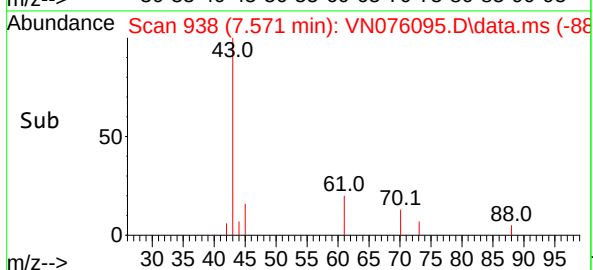
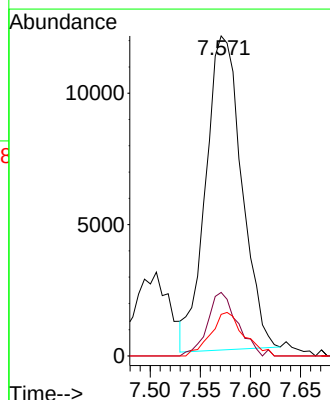
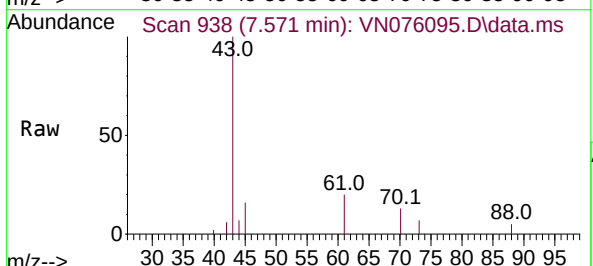
Tgt Ion: 43 Resp: 29899

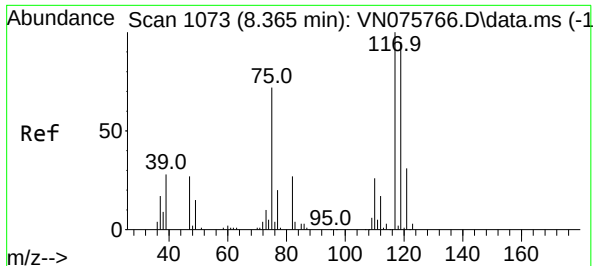
Ion Ratio Lower Upper

43 100

61 17.0 13.0 19.4

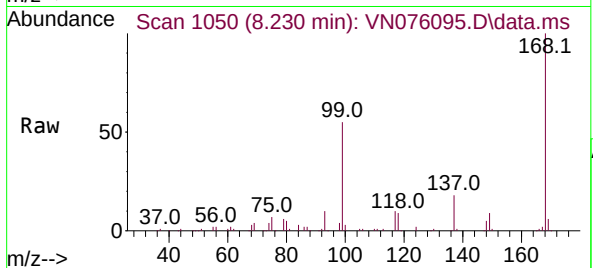
70 12.7 9.4 14.0



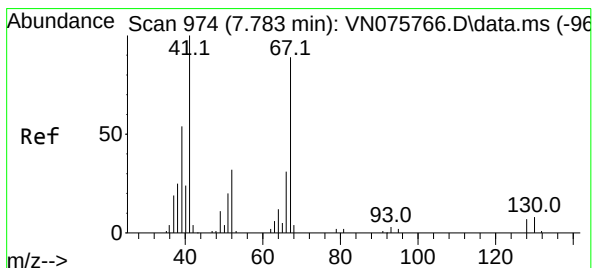
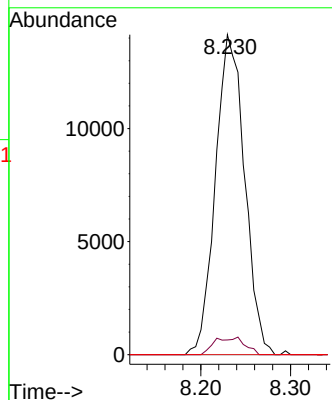
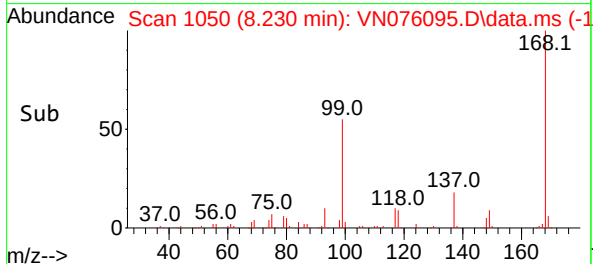


#38
Carbon Tetrachloride
Concen: 6.625 ug/l
RT: 8.230 min Scan# 1073
Delta R.T. -0.135 min
Lab File: VN076095.D
Acq: 04 Jan 2023 20:43

Instrument :
MSVOA_N
ClientSampleId :
TP-4

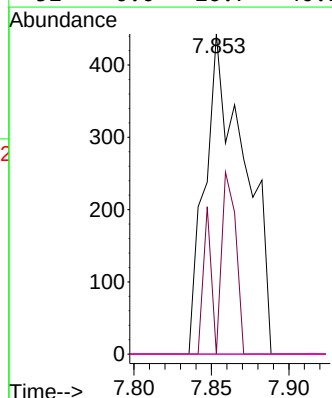
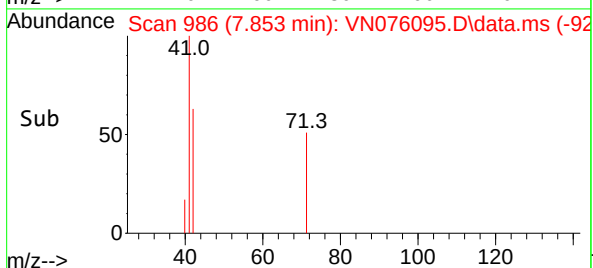
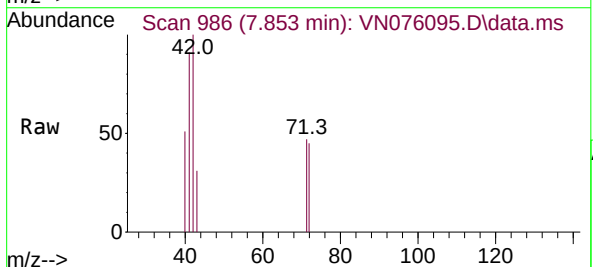


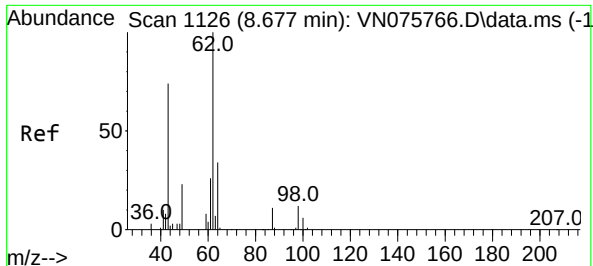
Tgt Ion:117 Resp: 31917
Ion Ratio Lower Upper
117 100
119 4.6 76.1 114.1#
121 0.0 24.5 36.7#



#41
Methacrylonitrile
Concen: 0.442 ug/l
RT: 7.853 min Scan# 986
Delta R.T. 0.071 min
Lab File: VN076095.D
Acq: 04 Jan 2023 20:43

Tgt Ion: 41 Resp: 794
Ion Ratio Lower Upper
41 100
39 29.0 43.1 64.7#
67 0.0 70.7 106.1#
52 0.0 26.7 40.1#





#42

1,2-Dichloroethane

Concen: 0.306 ug/l

RT: 8.688 min Scan# 1128

Delta R.T. 0.012 min

Lab File: VN076095.D

Acq: 04 Jan 2023 20:43

Instrument :

MSVOA_N

ClientSampleId :

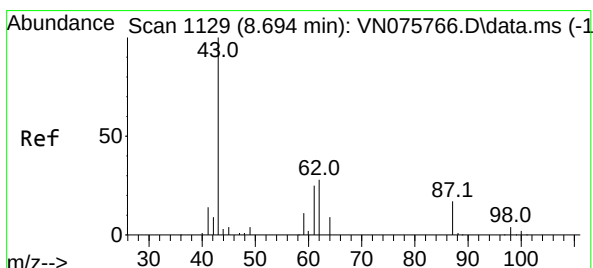
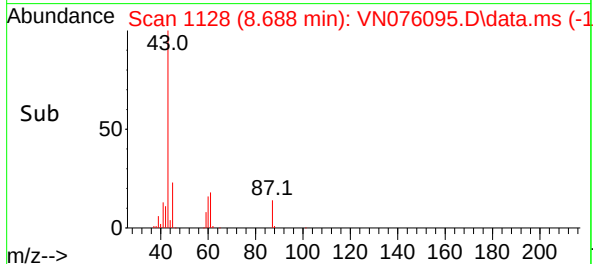
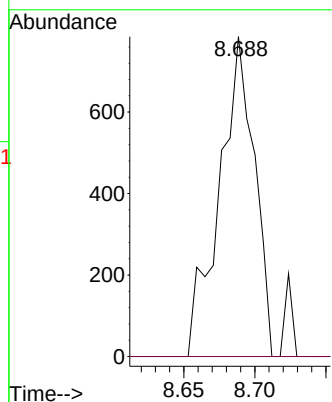
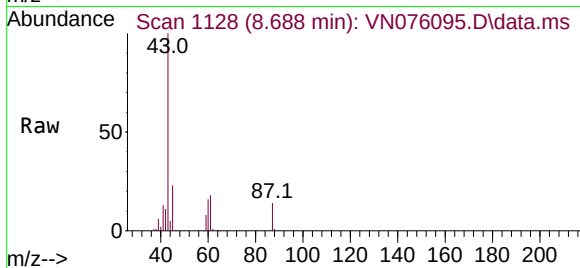
TP-4

Tgt Ion: 62 Resp: 1350

Ion Ratio Lower Upper

62 100

98 0.0 0.0 20.8



#43

Isopropyl Acetate

Concen: 50.913 ug/l

RT: 8.694 min Scan# 1129

Delta R.T. 0.000 min

Lab File: VN076095.D

Acq: 04 Jan 2023 20:43

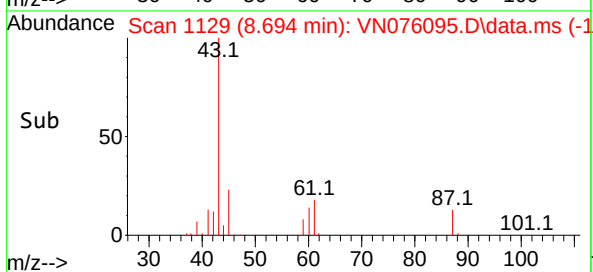
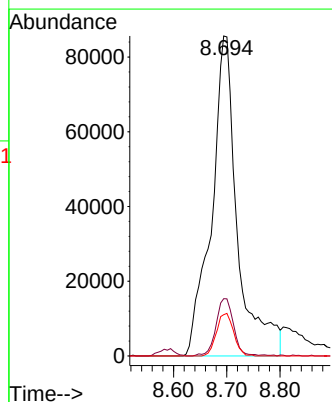
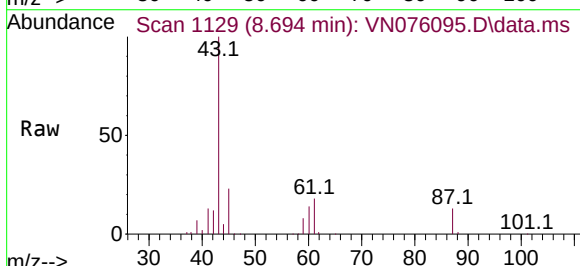
Tgt Ion: 43 Resp: 290365

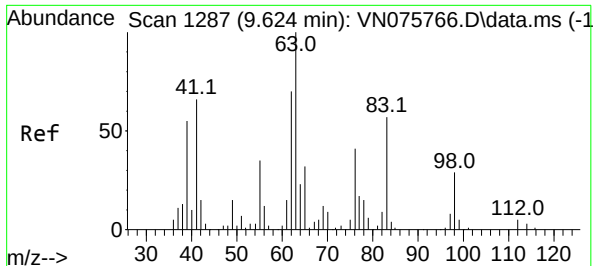
Ion Ratio Lower Upper

43 100

61 12.2 24.2 36.4#

87 8.8 13.3 19.9#





#45

1,2-Dichloropropane

Concen: 0.615 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.118 min

Lab File: VN076095.D

Acq: 04 Jan 2023 20:43

Instrument :

MSVOA_N

ClientSampleId :

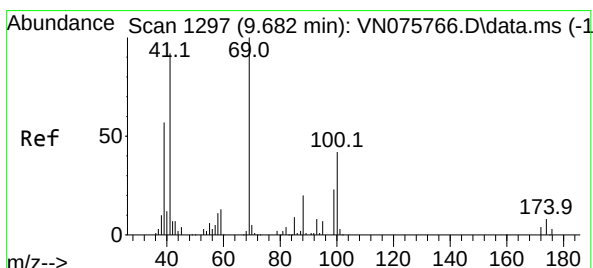
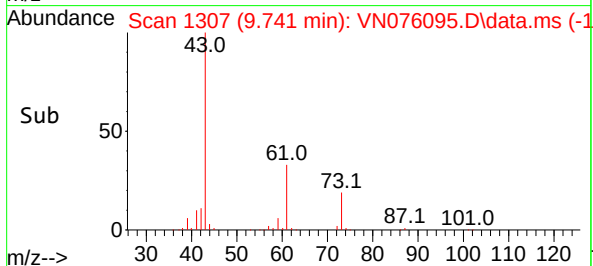
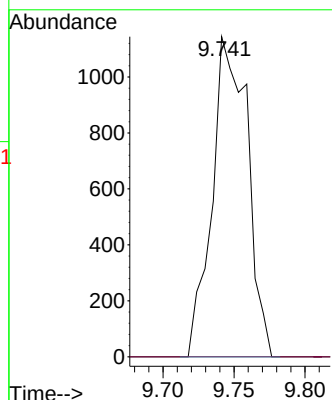
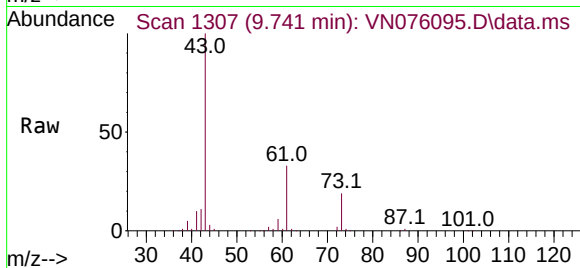
TP-4

Tgt Ion: 63 Resp: 1988

Ion Ratio Lower Upper

63 100

65 0.0 25.7 38.5#



#48

Methyl methacrylate

Concen: 1.590 ug/l

RT: 9.671 min Scan# 1295

Delta R.T. -0.012 min

Lab File: VN076095.D

Acq: 04 Jan 2023 20:43

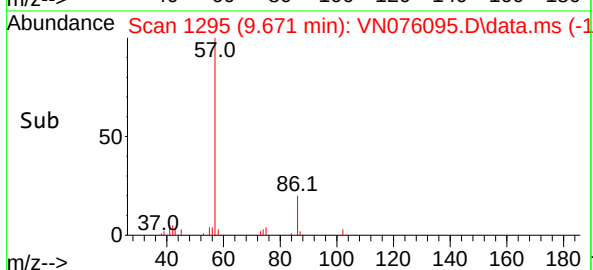
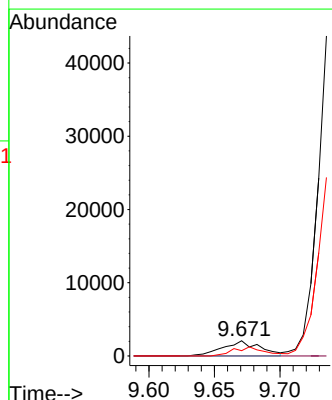
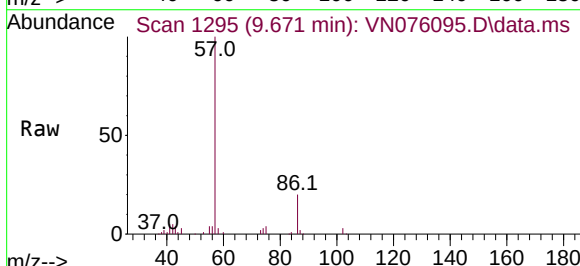
Tgt Ion: 41 Resp: 4084

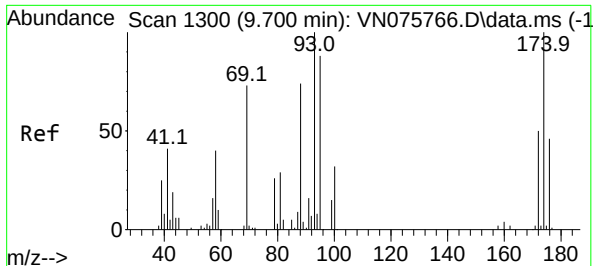
Ion Ratio Lower Upper

41 100

69 0.0 81.9 122.9#

39 0.0 51.6 77.4#





#49

1,4-Dioxane

Concen: 0.903 ug/l

RT: 9.671 min Scan# 1295

Delta R.T. -0.029 min

Lab File: VN076095.D

Acq: 04 Jan 2023 20:43

Instrument :

MSVOA_N

ClientSampleId :

TP-4

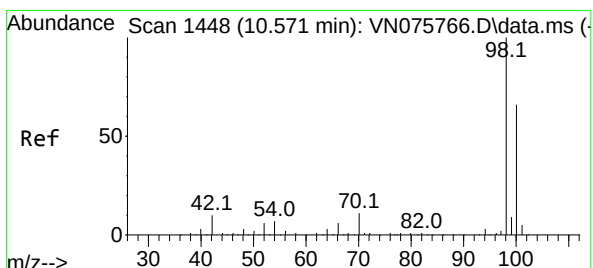
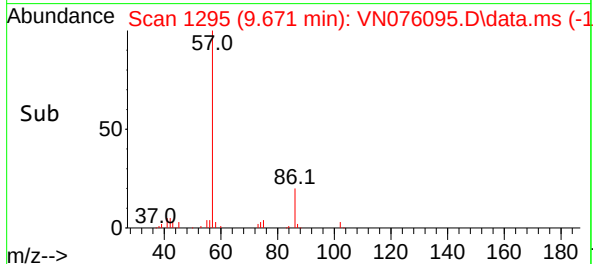
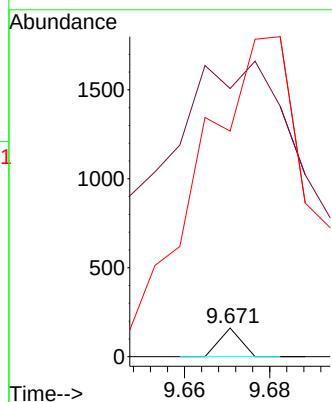
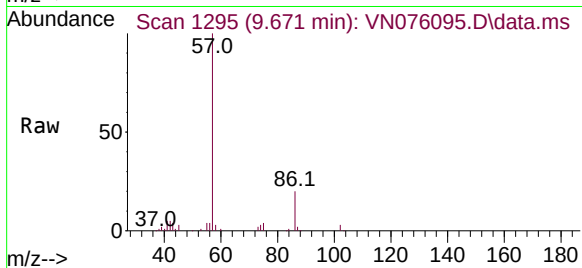
Tgt Ion: 88 Resp: 57

Ion Ratio Lower Upper

88 100

43 0.0 17.1 25.7#

58 6080.7 47.8 71.8#



#50

Toluene-d8

Concen: 50.755 ug/l

RT: 10.571 min Scan# 1448

Delta R.T. 0.000 min

Lab File: VN076095.D

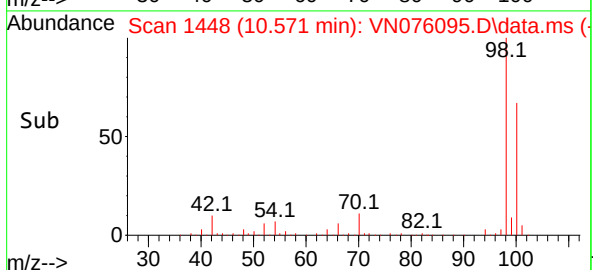
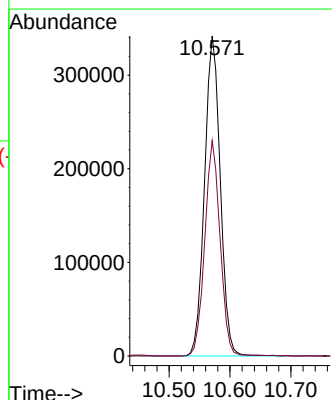
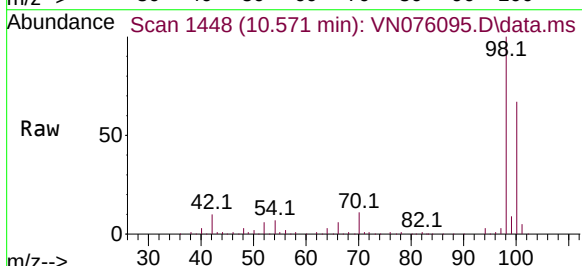
Acq: 04 Jan 2023 20:43

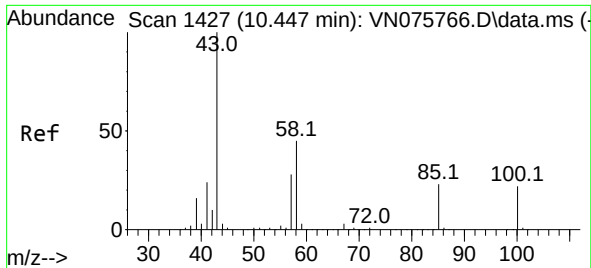
Tgt Ion: 98 Resp: 614885

Ion Ratio Lower Upper

98 100

100 65.4 52.1 78.1

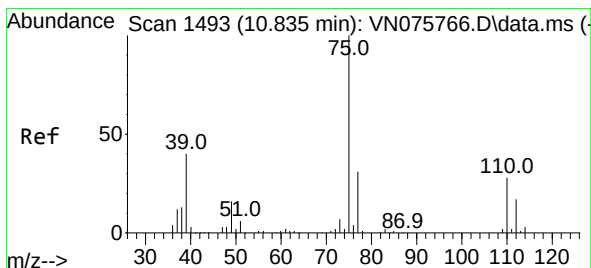
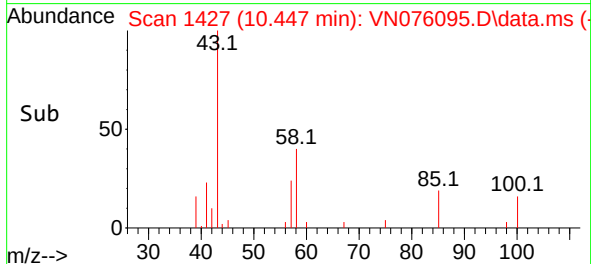
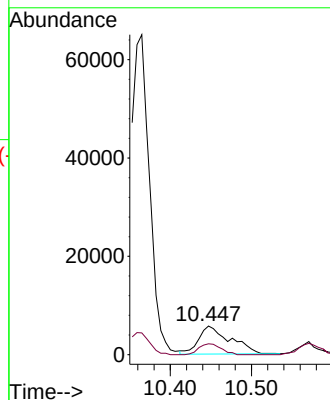
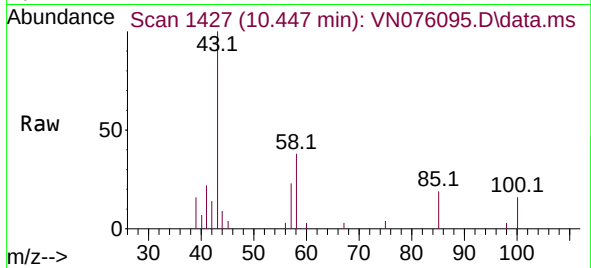




#51
4-Methyl-2-Pentanone
Concen: 4.469 ug/l
RT: 10.447 min Scan# 1427
Delta R.T. 0.000 min
Lab File: VN076095.D
Acq: 04 Jan 2023 20:43

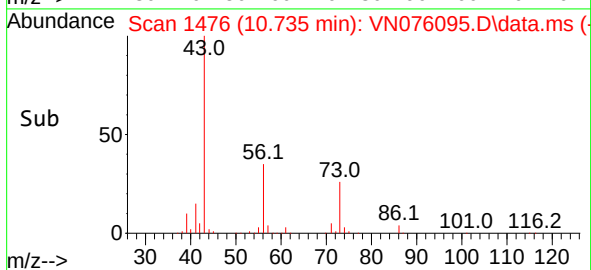
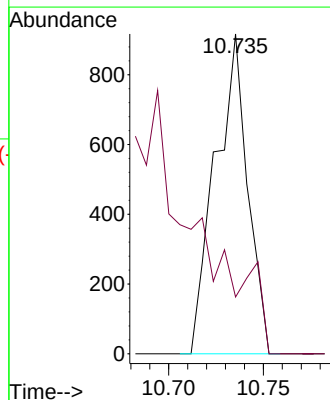
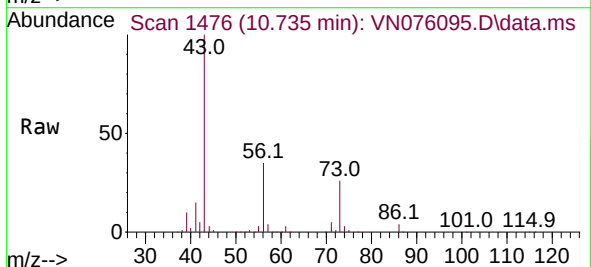
Instrument :
MSVOA_N
ClientSampleId :
TP-4

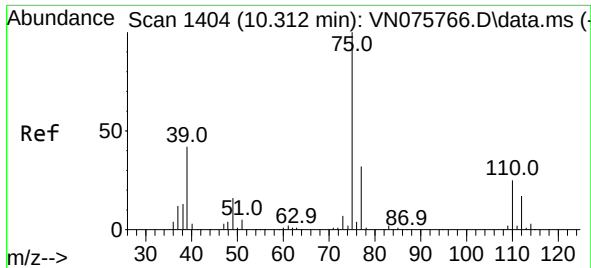
Tgt Ion: 43 Resp: 15413
Ion Ratio Lower Upper
43 100
58 27.5 35.5 53.3#



#53
t-1,3-Dichloropropene
Concen: 0.236 ug/l
RT: 10.735 min Scan# 1476
Delta R.T. -0.100 min
Lab File: VN076095.D
Acq: 04 Jan 2023 20:43

Tgt Ion: 75 Resp: 1087
Ion Ratio Lower Upper
75 100
77 17.8 24.9 37.3#

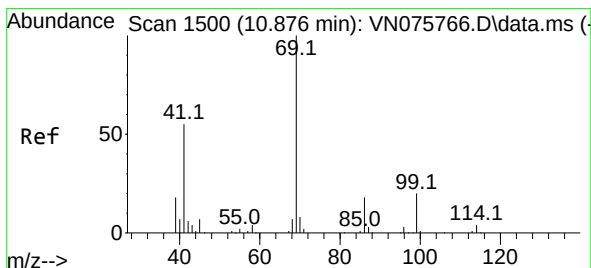
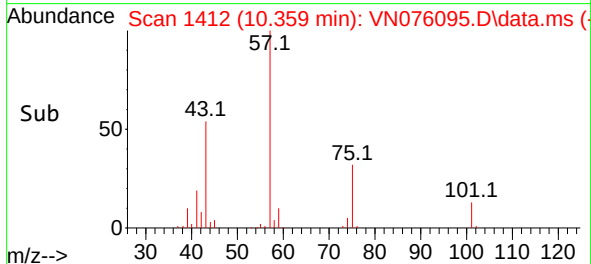
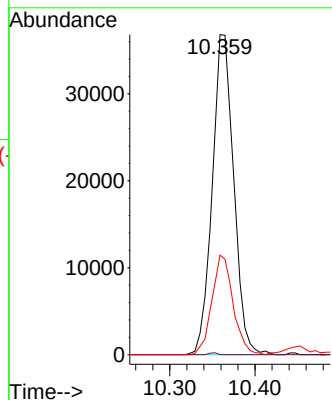
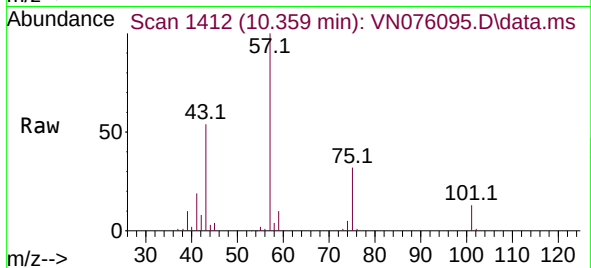




#54
 cis-1,3-Dichloropropene
 Concen: 12.774 ug/l
 RT: 10.359 min Scan# 1412
 Delta R.T. 0.047 min
 Lab File: VN076095.D
 Acq: 04 Jan 2023 20:43

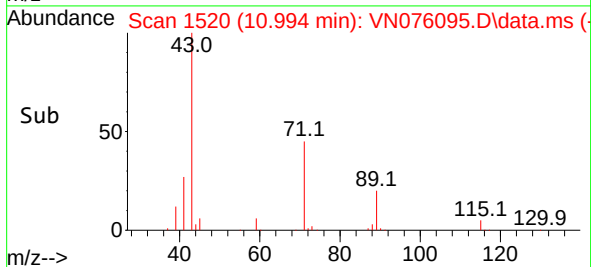
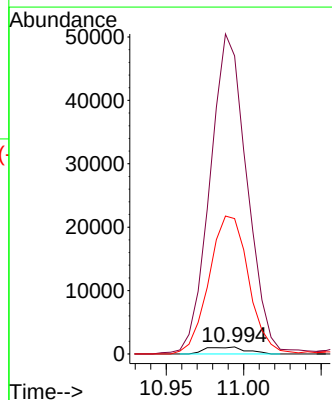
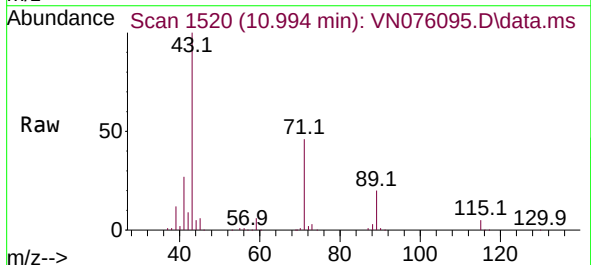
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-4

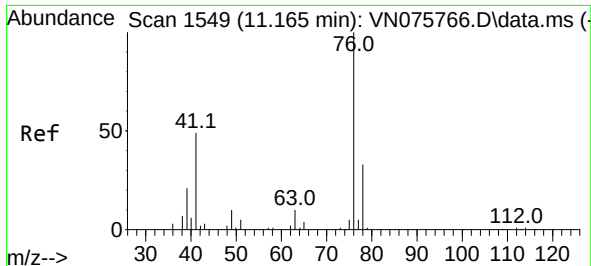
Tgt Ion: 75 Resp: 64534
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.8 38.8#
 39 31.1 33.4 50.2#



#56
 Ethyl methacrylate
 Concen: 0.435 ug/l
 RT: 10.994 min Scan# 1520
 Delta R.T. 0.118 min
 Lab File: VN076095.D
 Acq: 04 Jan 2023 20:43

Tgt Ion: 69 Resp: 1960
 Ion Ratio Lower Upper
 69 100
 41 4298.9 44.2 66.4#
 39 1974.0 26.4 39.6#





#57

1,3-Dichloropropane

Concen: 1.430 ug/l

RT: 11.206 min Scan# 1556

Delta R.T. 0.041 min

Lab File: VN076095.D

Acq: 04 Jan 2023 20:43

Instrument :

MSVOA_N

ClientSampleId :

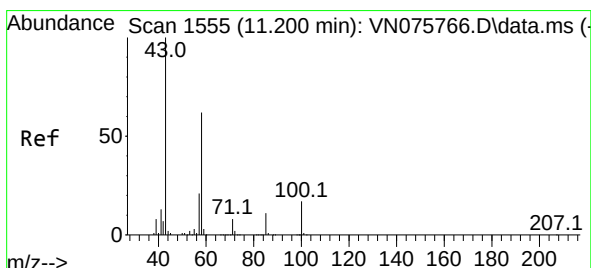
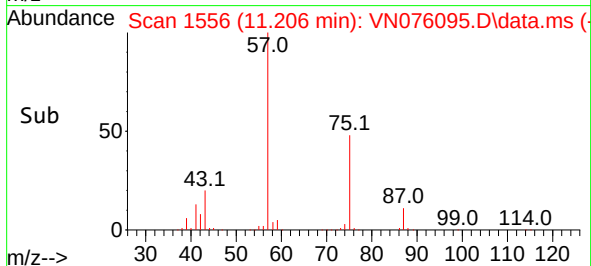
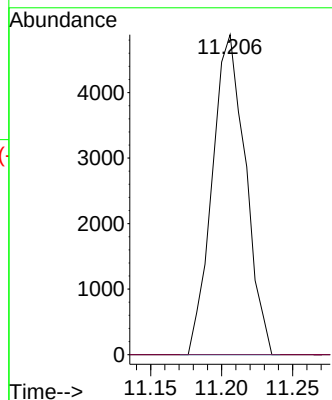
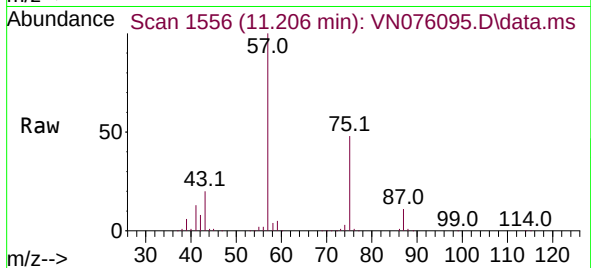
TP-4

Tgt Ion: 76 Resp: 7965

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.2#



#59

2-Hexanone

Concen: 32.980 ug/l

RT: 11.206 min Scan# 1556

Delta R.T. 0.006 min

Lab File: VN076095.D

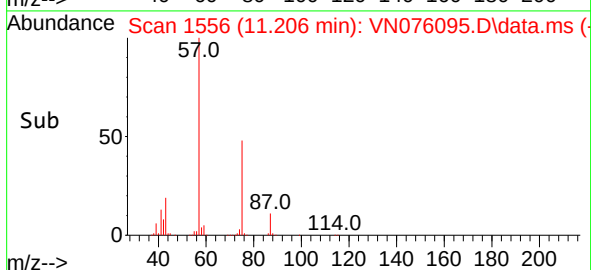
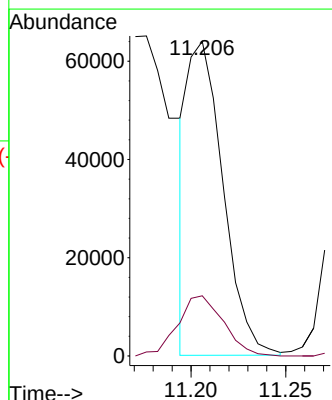
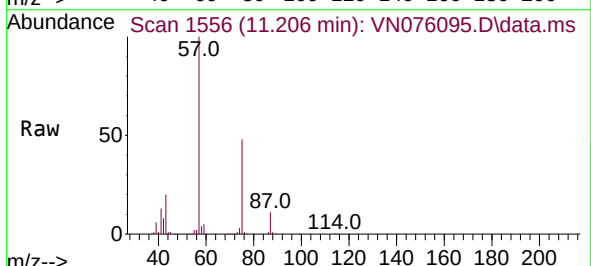
Acq: 04 Jan 2023 20:43

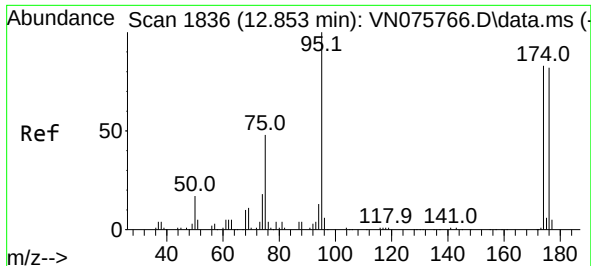
Tgt Ion: 43 Resp: 82953

Ion Ratio Lower Upper

43 100

58 24.8 30.6 92.0#

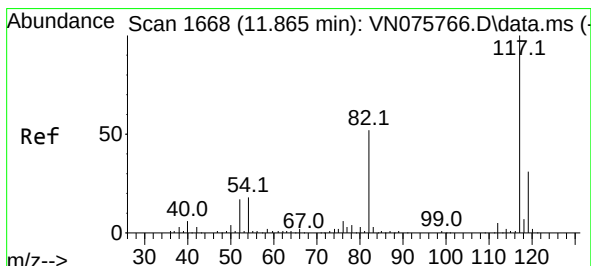
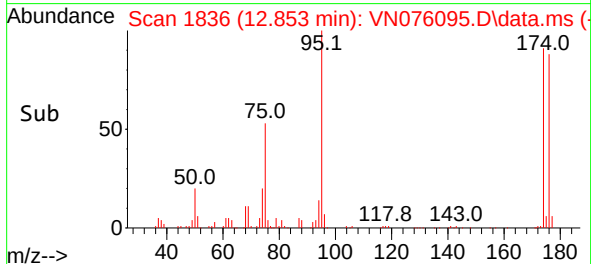
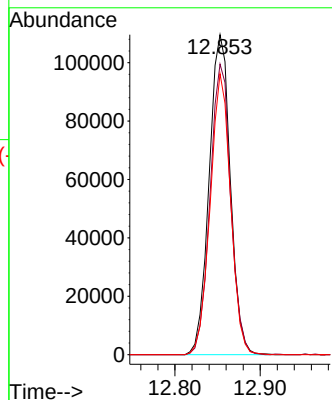
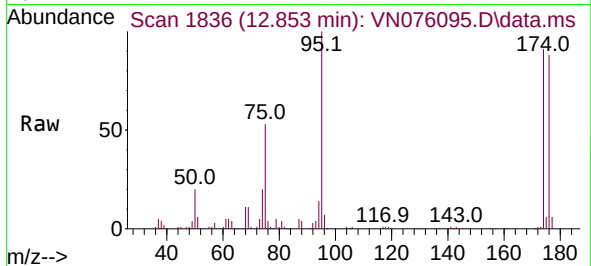




#62
4-Bromofluorobenzene
Concen: 47.155 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.000 min
Lab File: VN076095.D
Acq: 04 Jan 2023 20:43

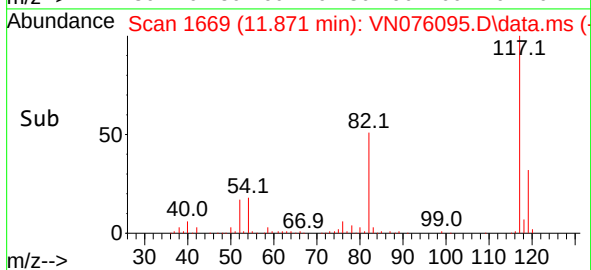
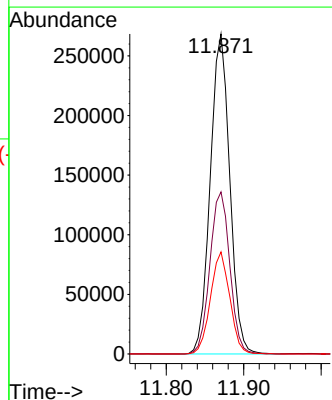
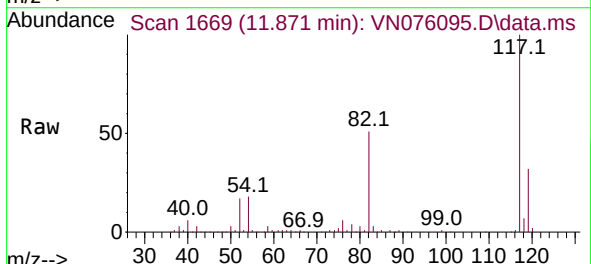
Instrument :
MSVOA_N
ClientSampleId :
TP-4

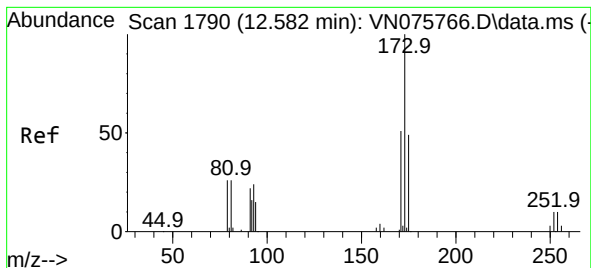
Tgt Ion: 95 Resp: 189208
Ion Ratio Lower Upper
95 100
174 88.4 0.0 171.6
176 84.5 0.0 169.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1669
Delta R.T. 0.006 min
Lab File: VN076095.D
Acq: 04 Jan 2023 20:43

Tgt Ion: 117 Resp: 470608
Ion Ratio Lower Upper
117 100
82 50.7 41.3 61.9
119 31.9 24.6 37.0





#71

Bromoform

Concen: 0.699 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. 0.271 min

Lab File: VN076095.D

Acq: 04 Jan 2023 20:43

Instrument :

MSVOA_N

ClientSampleId :

TP-4

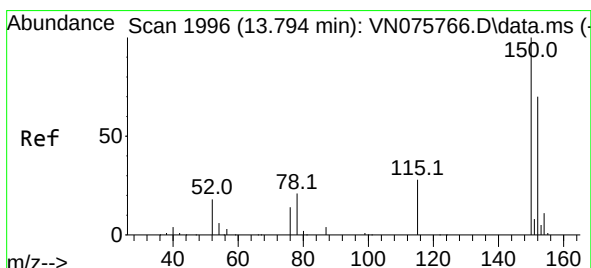
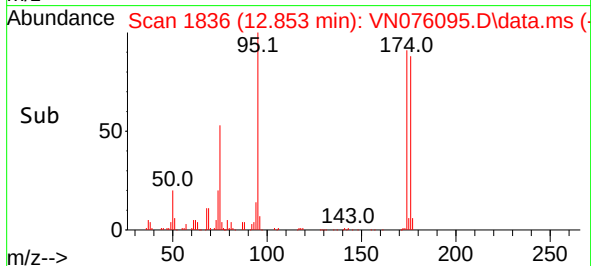
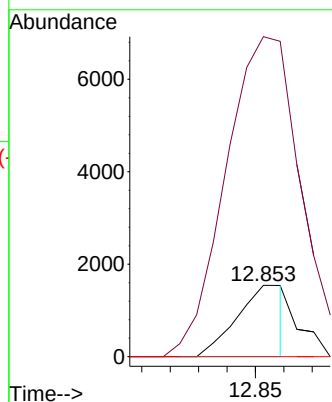
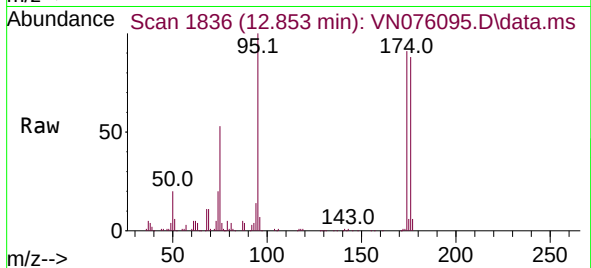
Tgt Ion:173 Resp: 1819

Ion Ratio Lower Upper

173 100

175 548.4 24.3 72.8#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 1996

Delta R.T. 0.000 min

Lab File: VN076095.D

Acq: 04 Jan 2023 20:43

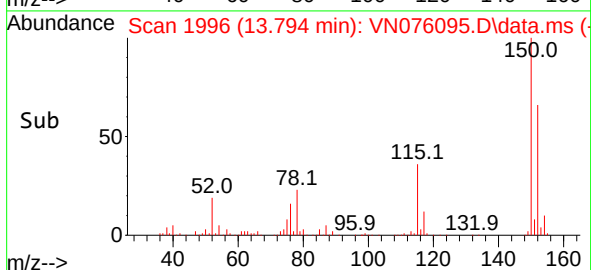
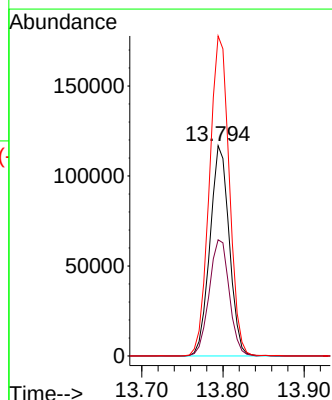
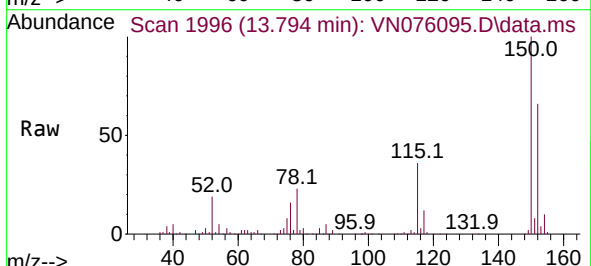
Tgt Ion:152 Resp: 192756

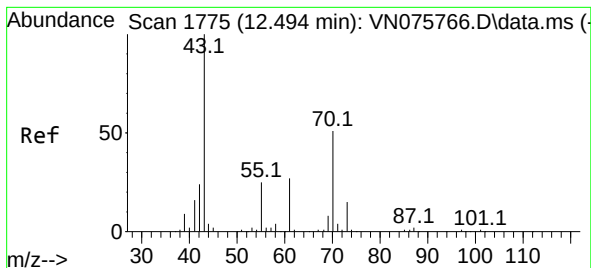
Ion Ratio Lower Upper

152 100

115 57.6 29.1 87.4

150 156.5 0.0 347.0





#74

N-amy1 acetate

Concen: 0.315 ug/l

RT: 12.494 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN076095.D

Acq: 04 Jan 2023 20:43

Instrument :

MSVOA_N

ClientSampleId :

TP-4

Tgt Ion: 43 Resp: 1287

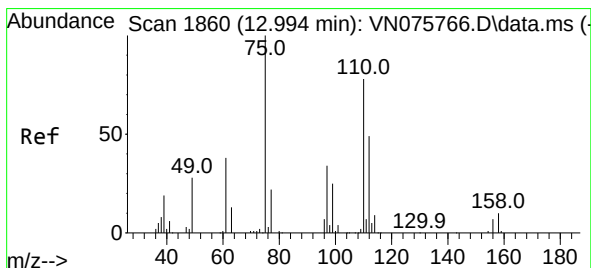
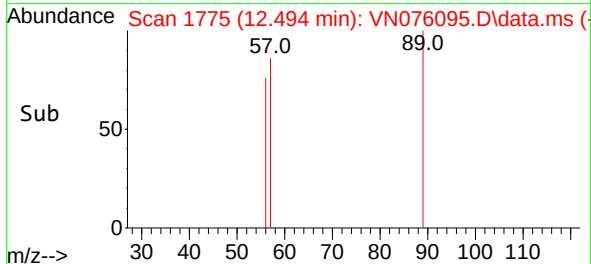
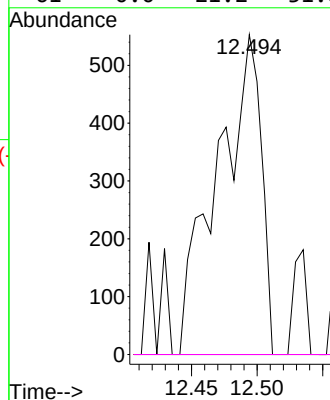
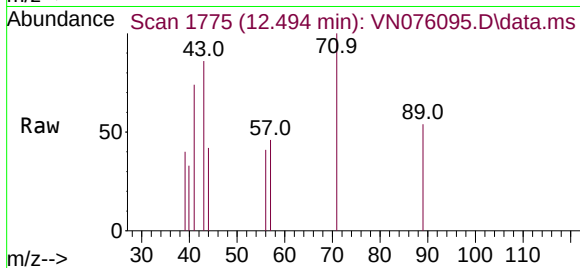
Ion Ratio Lower Upper

43 100

70 0.0 41.4 62.0#

55 0.0 21.3 31.9#

61 0.0 21.2 31.8#



#76

1,2,3-Trichloropropane

Concen: 25.458 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. -0.141 min

Lab File: VN076095.D

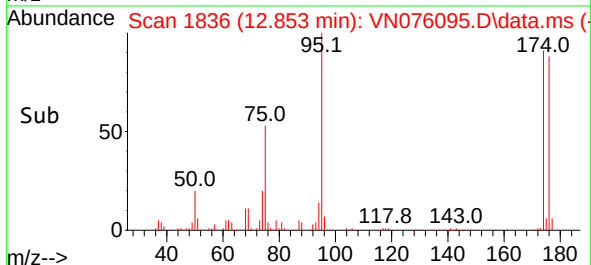
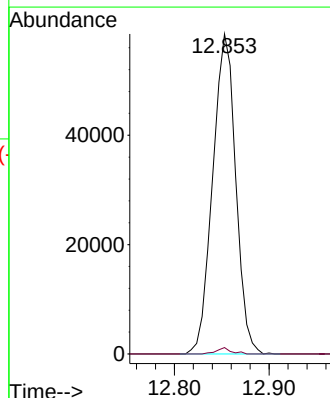
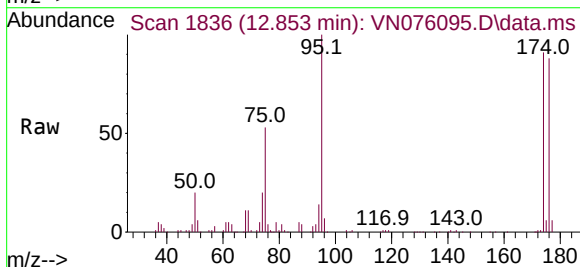
Acq: 04 Jan 2023 20:43

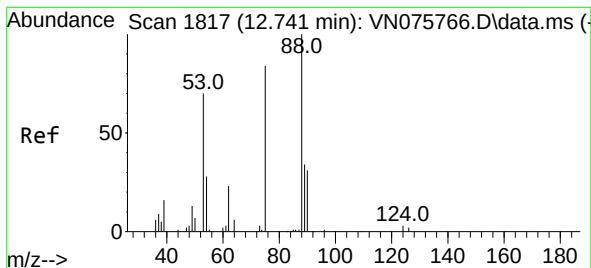
Tgt Ion: 75 Resp: 98915

Ion Ratio Lower Upper

75 100

77 1.3 82.6 247.8#

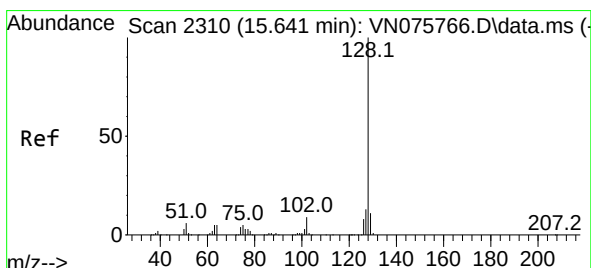
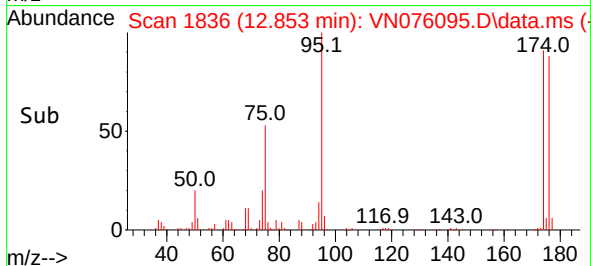
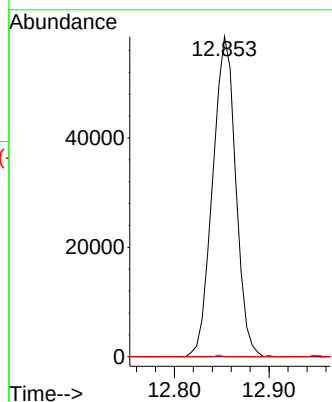
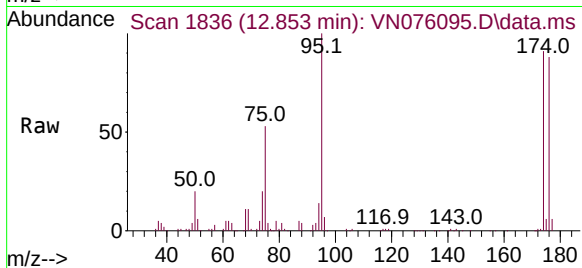




#81
trans-1,4-Dichloro-2-butene
Concen: 91.634 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.112 min
Lab File: VN076095.D
Acq: 04 Jan 2023 20:43

Instrument :
MSVOA_N
ClientSampleId :
TP-4

Tgt Ion: 75 Resp: 98915
Ion Ratio Lower Upper
75 100
53 0.0 73.8 110.6#
89 0.1 39.5 59.3#



#95
Naphthalene
Concen: 2.210 ug/l
RT: 15.647 min Scan# 2311
Delta R.T. 0.006 min
Lab File: VN076095.D
Acq: 04 Jan 2023 20:43

Tgt Ion: 128 Resp: 357
Ion Ratio Lower Upper
128 100
127 0.0 10.4 15.6#
129 0.0 8.7 13.1#

