

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122922\
 Data File : VN076049.D
 Acq On : 29 Dec 2022 15:18
 Operator : JC\MD
 Sample : N6231-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-3S

Quant Time: Dec 30 05:33:57 2022
 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

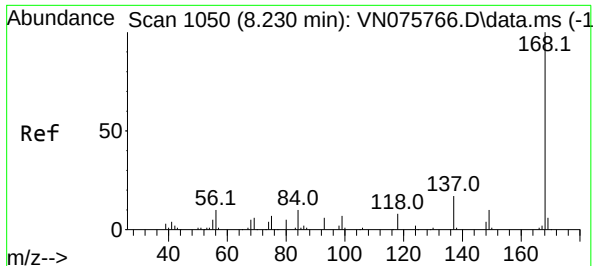
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.229	168	363653	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	579171	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	531986	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	224951	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	183176	46.301	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	92.600%		
35) Dibromofluoromethane	8.171	113	170311	47.484	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.960%		
50) Toluene-d8	10.571	98	673757	50.242	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	100.480%		
62) 4-Bromofluorobenzene	12.853	95	221736	49.922	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	99.840%		
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.524	59	585	1.045	ug/l #	72
16) Acetone	4.442	43	47481	34.816	ug/l	98
18) Methyl Acetate	5.047	43	1772	0.440	ug/l	94
20) Methylene Chloride	5.294	84	12528	2.830	ug/l	95
25) 2-Butanone	7.500	43	8500	4.451	ug/l	96
29) Tetrahydrofuran	7.853	42	303	0.253	ug/l #	25
31) Cyclohexane	8.235	56	6611	1.167	ug/l #	1
36) 1,1-Dichloropropene	8.229	75	25116	5.271	ug/l #	49
37) Ethyl Acetate	7.571	43	31887	8.332	ug/l	99
38) Carbon Tetrachloride	8.235	117	35332	6.626	ug/l #	18
42) 1,2-Dichloroethane	8.688	62	1176	0.241	ug/l #	72
43) Isopropyl Acetate	8.694	43	244475	38.725	ug/l #	76
45) 1,2-Dichloropropane	9.747	63	2205	0.616	ug/l #	43
48) Methyl methacrylate	9.747	41	131145	46.122	ug/l #	34
49) 1,4-Dioxane	9.753	88	122	1.745	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	15013	3.932	ug/l #	76
53) t-1,3-Dichloropropene	10.729	75	1235	0.242	ug/l #	60
54) cis-1,3-Dichloropropene	10.359	75	67246	12.025	ug/l #	63
57) 1,3-Dichloropropane	11.200	76	8483	1.376	ug/l #	42
59) 2-Hexanone	11.171	43	127300	45.721	ug/l #	20
71) Bromoform	12.847	173	1450	0.493	ug/l #	1
74) N-amyl acetate	12.488	43	1698	0.356	ug/l #	39
76) 1,2,3-Trichloropropane	12.853	75	111202	24.524	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	111202	88.273	ug/l #	12
90) Hexachloroethane	14.447	117	731	0.297	ug/l #	11
95) Naphthalene	15.647	128	2889	2.403	ug/l #	76

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

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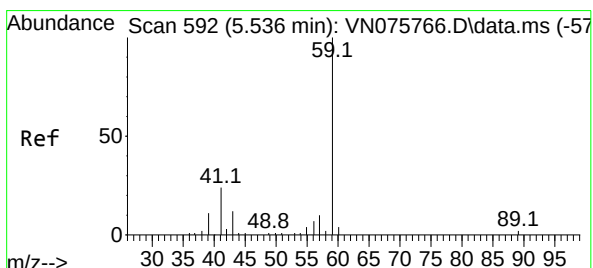
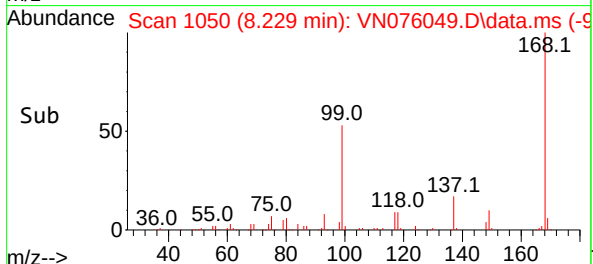
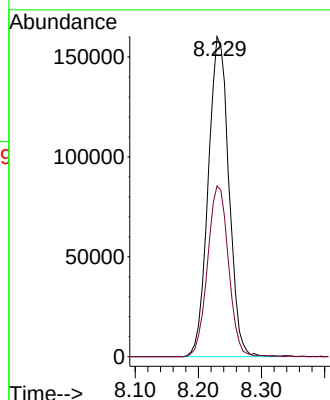
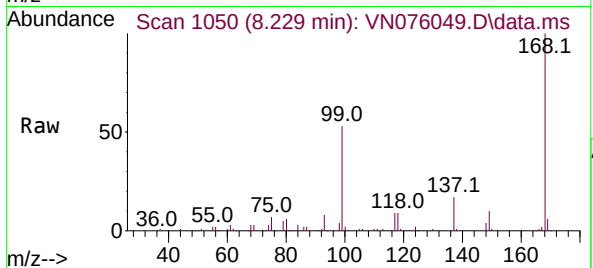




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 10
Delta R.T. -0.001 min
Lab File: VN076049.D
Acq: 29 Dec 2022 15:18

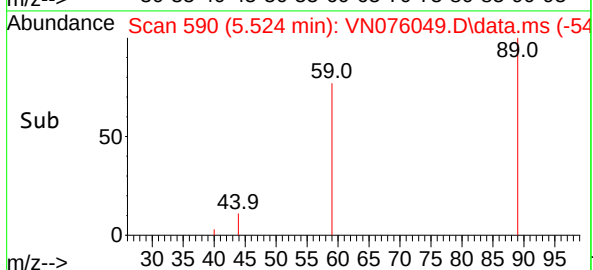
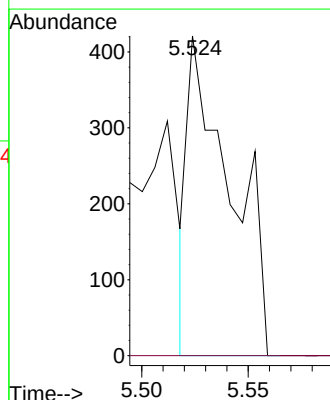
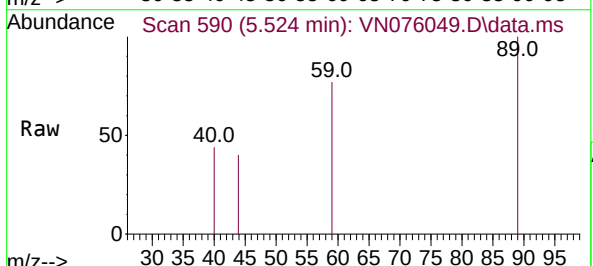
Instrument :
MSVOA_N
ClientSampleId :
TP-3S

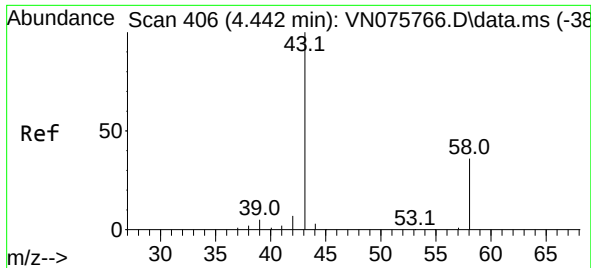
Tgt Ion:168 Resp: 363653
Ion Ratio Lower Upper
168 100
99 53.4 44.2 66.4



#11
Tert butyl alcohol
Concen: 1.045 ug/l
RT: 5.524 min Scan# 590
Delta R.T. -0.012 min
Lab File: VN076049.D
Acq: 29 Dec 2022 15:18

Tgt Ion: 59 Resp: 585
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#16

Acetone

Concen: 34.816 ug/l

RT: 4.442 min Scan# 406

Delta R.T. -0.000 min

Lab File: VN076049.D

Acq: 29 Dec 2022 15:18

Instrument :

MSVOA_N

ClientSampleId :

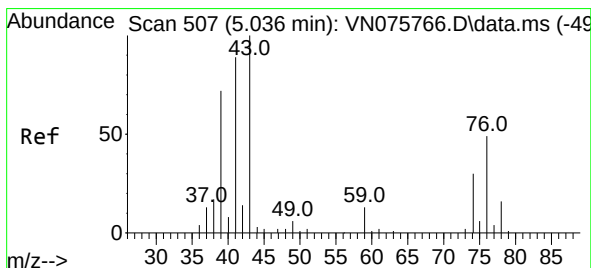
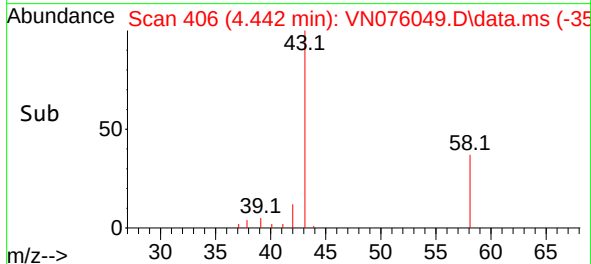
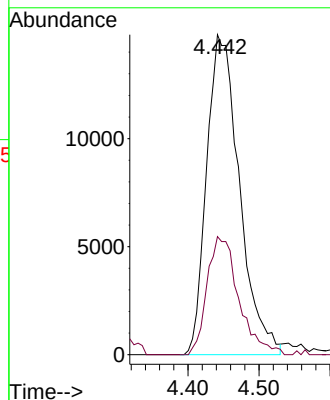
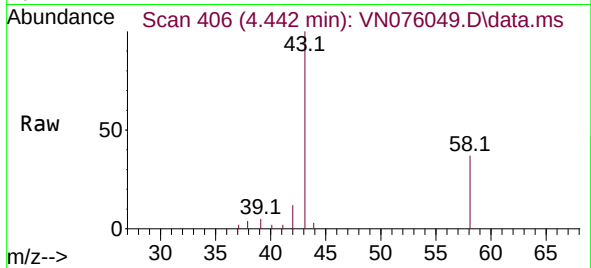
TP-3S

Tgt Ion: 43 Resp: 47481

Ion Ratio Lower Upper

43 100

58 36.9 28.6 43.0



#18

Methyl Acetate

Concen: 0.440 ug/l

RT: 5.047 min Scan# 509

Delta R.T. 0.012 min

Lab File: VN076049.D

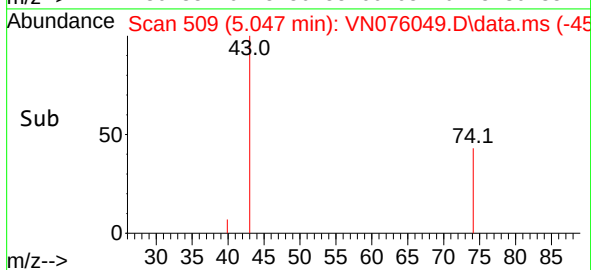
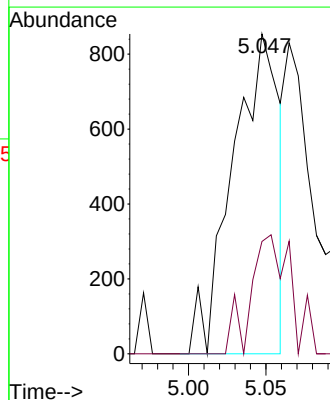
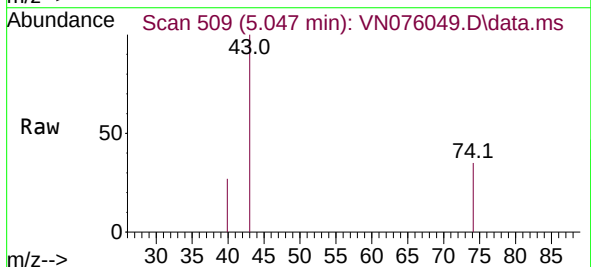
Acq: 29 Dec 2022 15:18

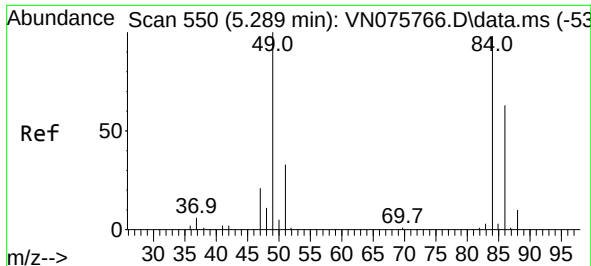
Tgt Ion: 43 Resp: 1772

Ion Ratio Lower Upper

43 100

74 32.5 23.6 35.4

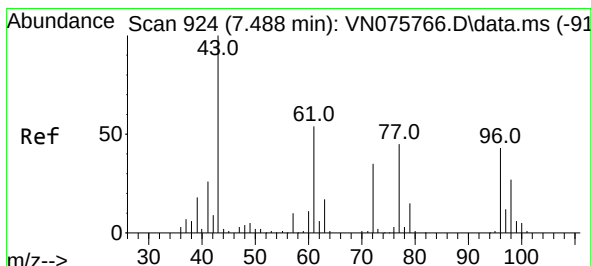
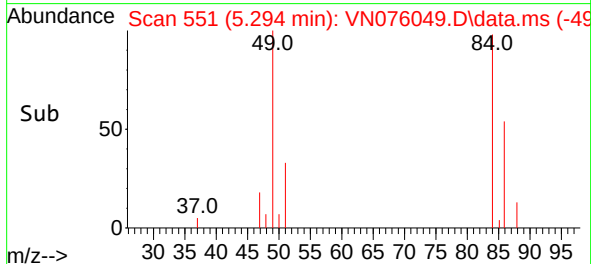
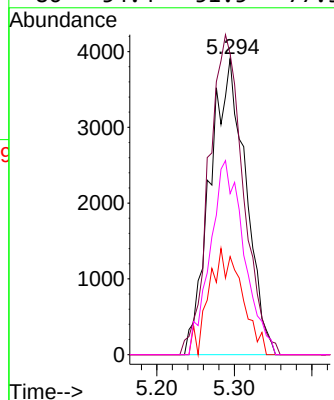
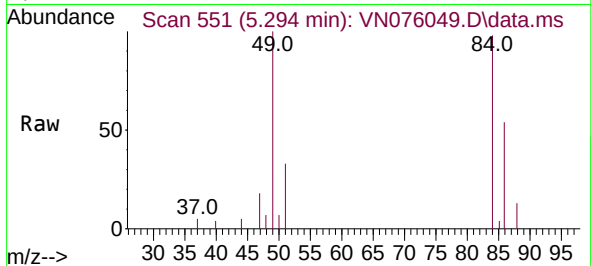




#20
Methylene Chloride
Concen: 2.830 ug/l
RT: 5.294 min Scan# 511
Delta R.T. 0.005 min
Lab File: VN076049.D
Acq: 29 Dec 2022 15:18

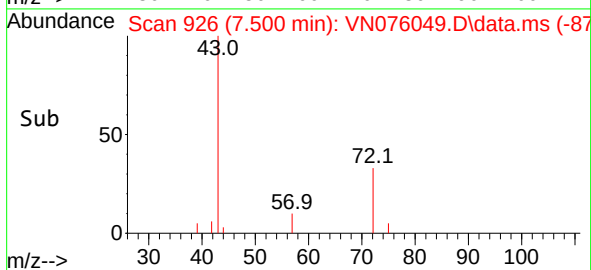
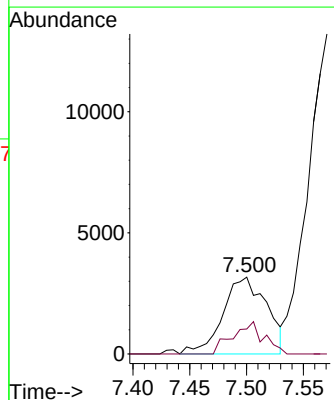
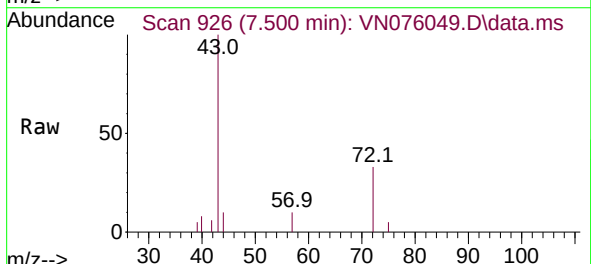
Instrument :
MSVOA_N
ClientSampleId :
TP-3S

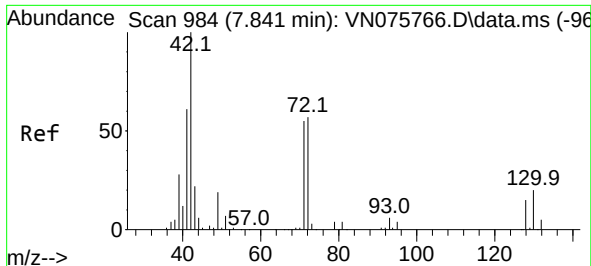
Tgt Ion: 84	Resp:	12528	
Ion	Ratio	Lower	Upper
84	100		
49	101.6	81.8	122.6
51	33.1	26.7	40.1
86	54.4	51.5	77.3



#25
2-Butanone
Concen: 4.451 ug/l
RT: 7.500 min Scan# 926
Delta R.T. 0.012 min
Lab File: VN076049.D
Acq: 29 Dec 2022 15:18

Tgt Ion: 43	Resp:	8500	
Ion	Ratio	Lower	Upper
43	100		
72	32.5	28.0	42.0





#29

Tetrahydrofuran

Concen: 0.253 ug/l

RT: 7.853 min Scan# 91

Delta R.T. 0.012 min

Lab File: VN076049.D

Acq: 29 Dec 2022 15:18

Instrument :

MSVOA_N

ClientSampleId :

TP-3S

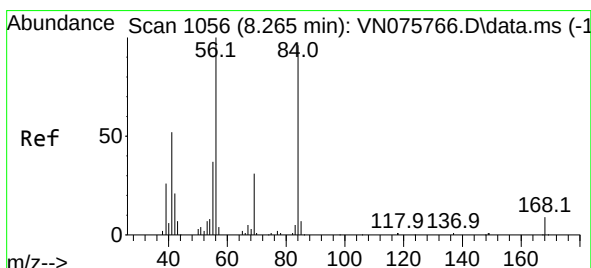
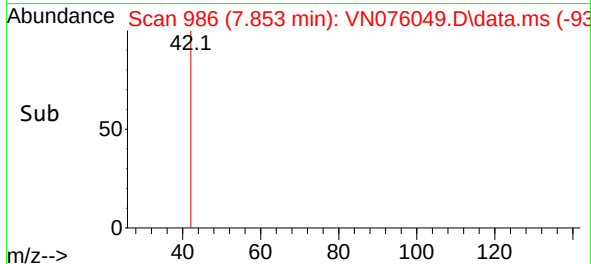
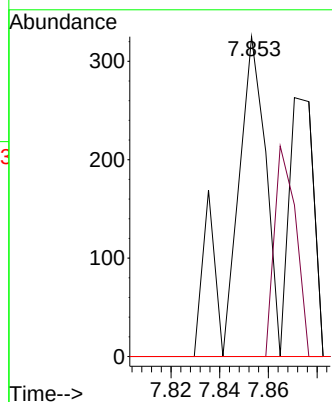
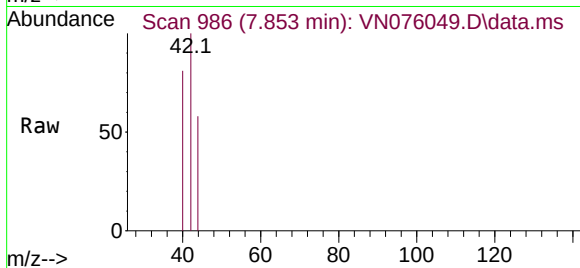
Tgt Ion: 42 Resp: 303

Ion Ratio Lower Upper

42 100

72 0.0 44.5 66.7#

71 0.0 41.0 61.6#



#31

Cyclohexane

Concen: 1.167 ug/l

RT: 8.235 min Scan# 1051

Delta R.T. -0.030 min

Lab File: VN076049.D

Acq: 29 Dec 2022 15:18

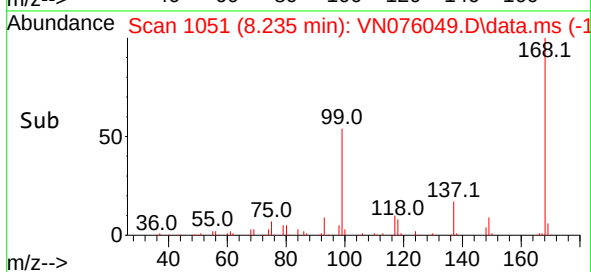
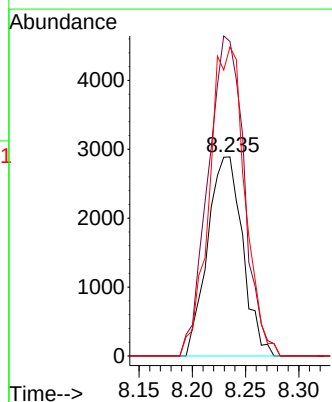
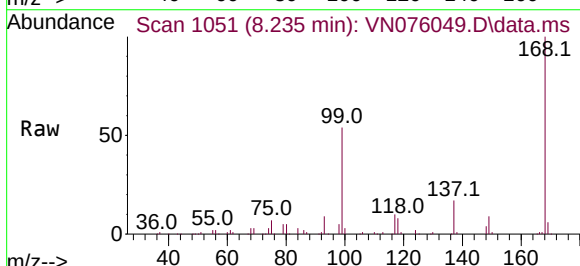
Tgt Ion: 56 Resp: 6611

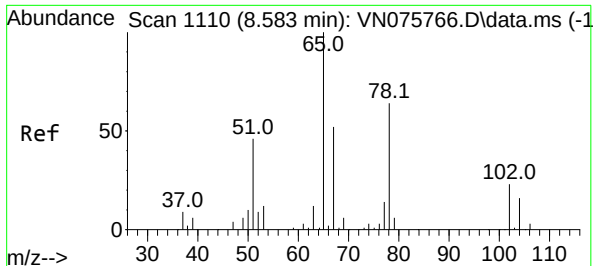
Ion Ratio Lower Upper

56 100

69 158.0 24.7 37.1#

84 155.2 76.5 114.7#





#33

1,2-Dichloroethane-d4

Concen: 46.301 ug/l

RT: 8.582 min Scan# 1110

Delta R.T. -0.000 min

Lab File: VN076049.D

Acq: 29 Dec 2022 15:18

Instrument :

MSVOA_N

ClientSampleId :

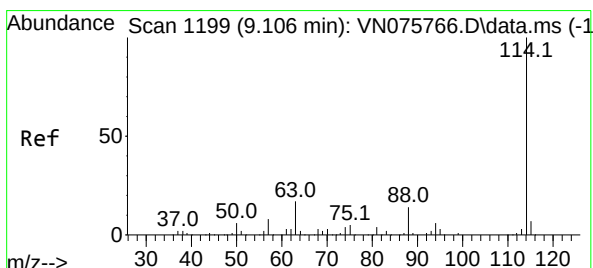
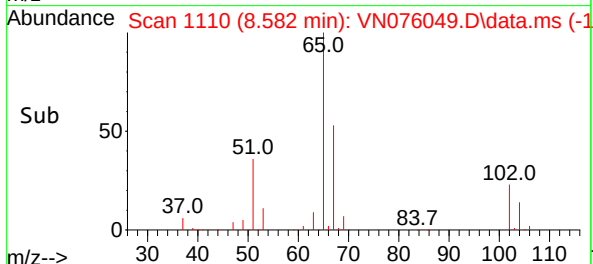
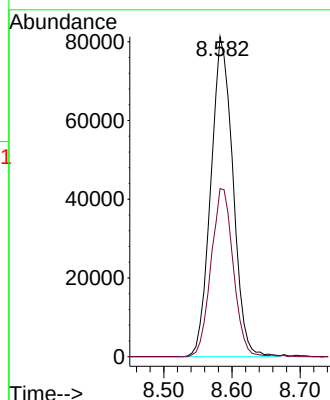
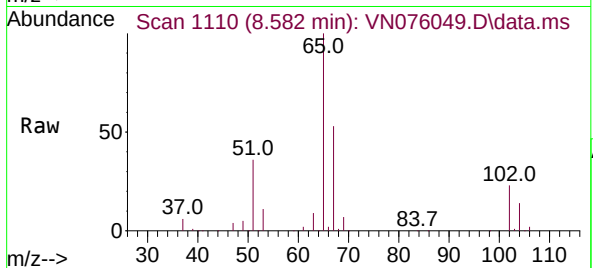
TP-3S

Tgt Ion: 65 Resp: 183176

Ion Ratio Lower Upper

65 100

67 52.7 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: VN076049.D

Acq: 29 Dec 2022 15:18

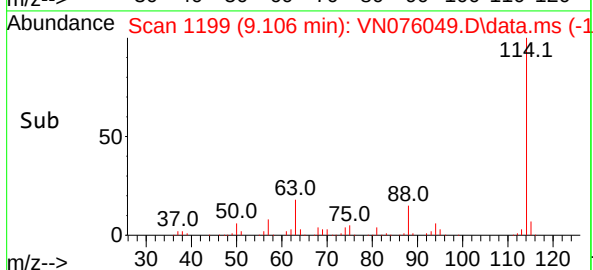
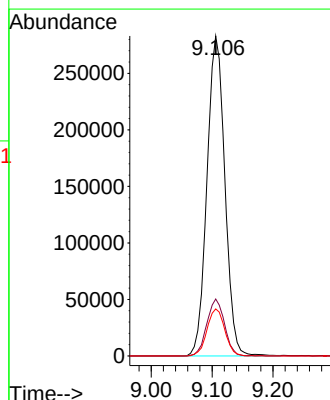
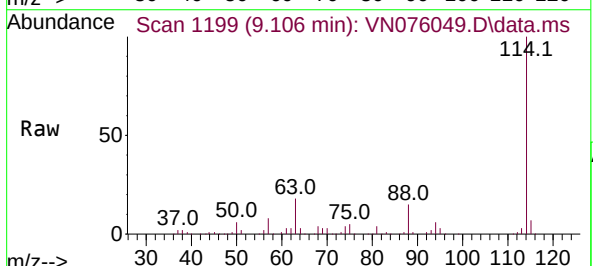
Tgt Ion: 114 Resp: 579171

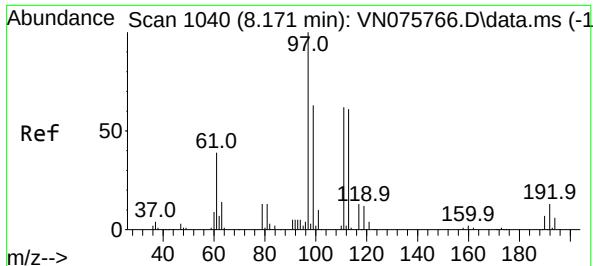
Ion Ratio Lower Upper

114 100

63 17.8 0.0 34.4

88 14.7 0.0 28.8

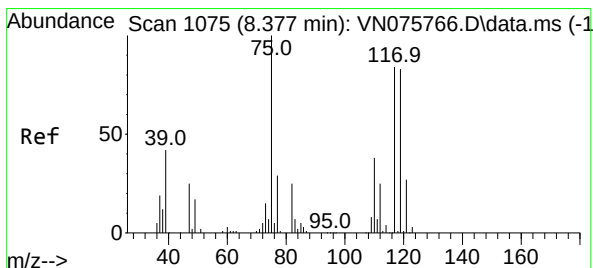
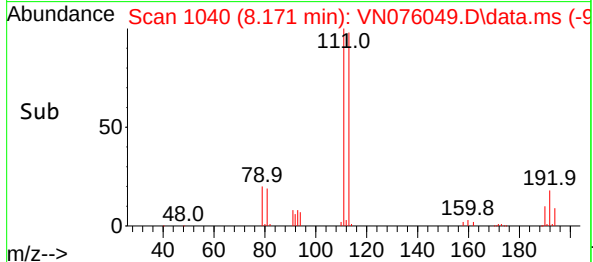
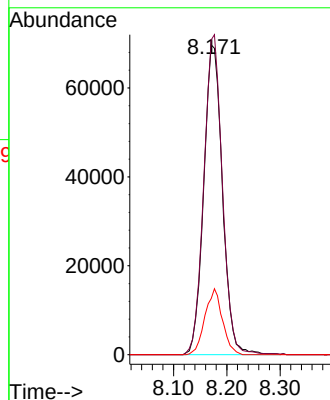
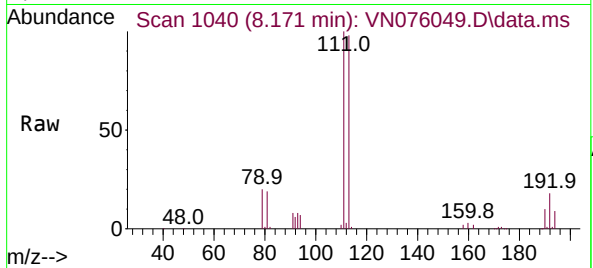




#35
Dibromofluoromethane
Concen: 47.484 ug/l
RT: 8.171 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VN076049.D
Acq: 29 Dec 2022 15:18

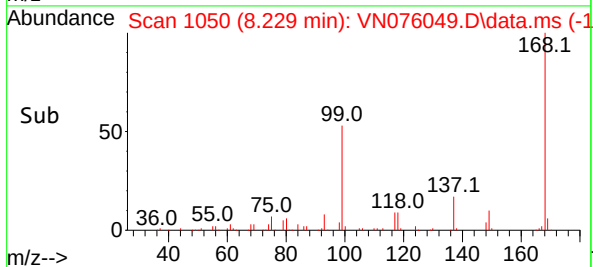
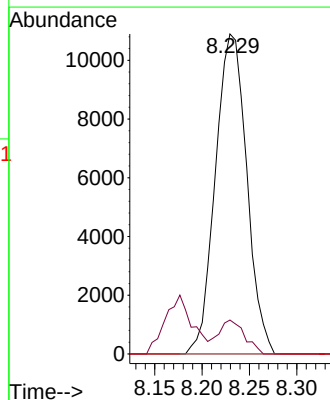
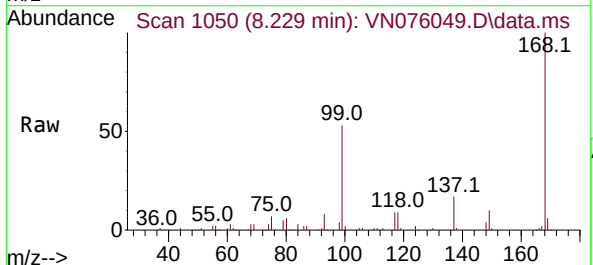
Instrument :
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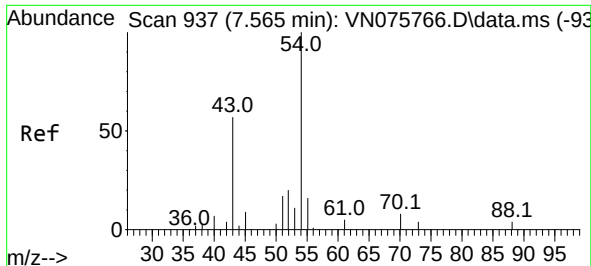
Tgt Ion:113 Resp: 170311
Ion Ratio Lower Upper
113 100
111 102.3 83.4 125.2
192 19.9 16.1 24.1



#36
1,1-Dichloropropene
Concen: 5.271 ug/l
RT: 8.229 min Scan# 1050
Delta R.T. -0.147 min
Lab File: VN076049.D
Acq: 29 Dec 2022 15:18

Tgt Ion: 75 Resp: 25116
Ion Ratio Lower Upper
75 100
110 8.9 18.8 56.4#
77 0.0 24.1 36.1#

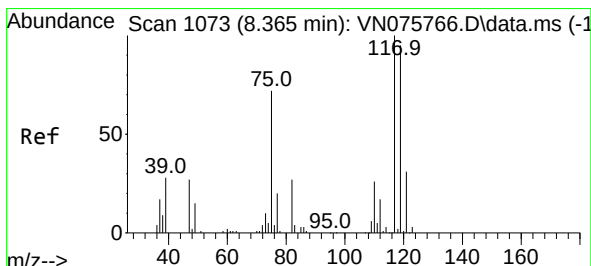
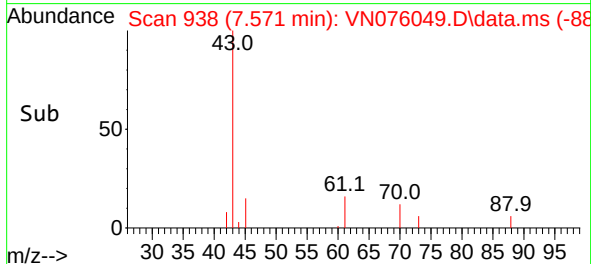
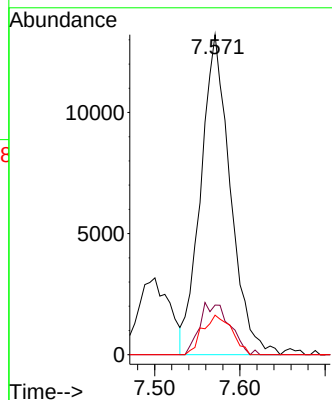
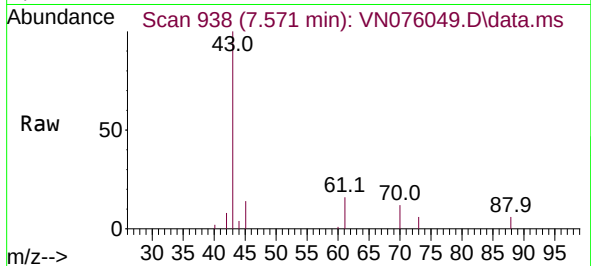




#37
Ethyl Acetate
Concen: 8.332 ug/l
RT: 7.571 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN076049.D
Acq: 29 Dec 2022 15:18

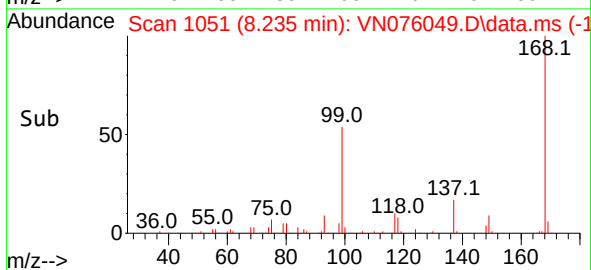
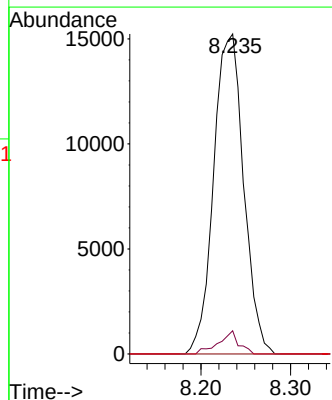
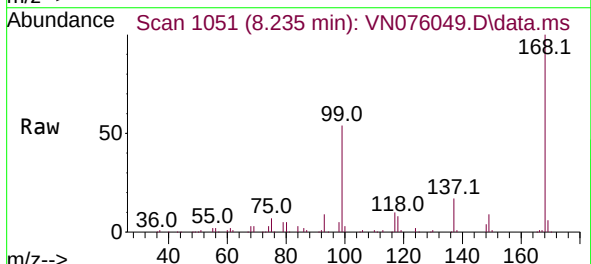
Instrument :
MSVOA_N
ClientSampleId :
TP-3S

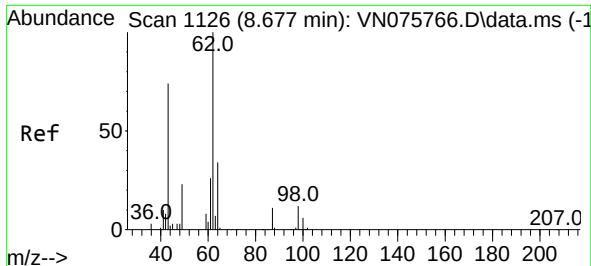
Tgt Ion: 43 Resp: 31887
Ion Ratio Lower Upper
43 100
61 16.5 13.0 19.4
70 12.2 9.4 14.0



#38
Carbon Tetrachloride
Concen: 6.626 ug/l
RT: 8.235 min Scan# 1051
Delta R.T. -0.130 min
Lab File: VN076049.D
Acq: 29 Dec 2022 15:18

Tgt Ion: 117 Resp: 35332
Ion Ratio Lower Upper
117 100
119 7.3 76.1 114.1#
121 0.0 24.5 36.7#





#42

1,2-Dichloroethane

Concen: 0.241 ug/l

RT: 8.688 min Scan# 1128

Delta R.T. 0.012 min

Lab File: VN076049.D

Acq: 29 Dec 2022 15:18

Instrument :

MSVOA_N

ClientSampleId :

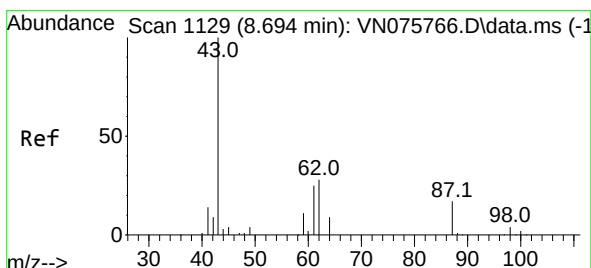
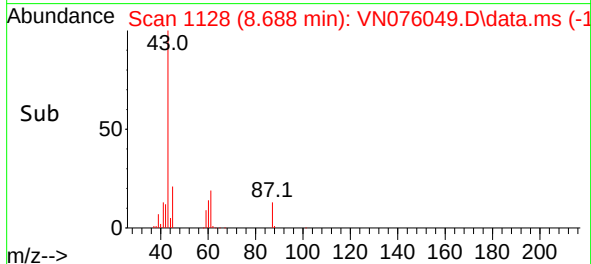
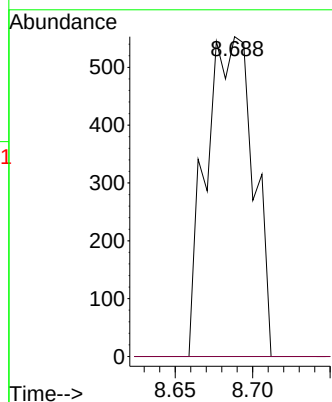
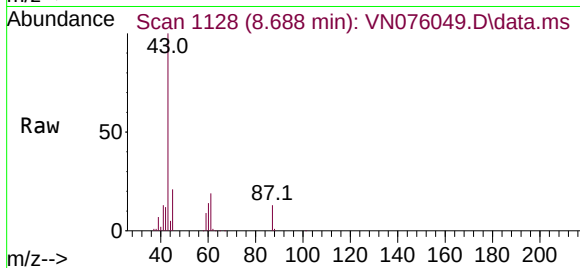
TP-3S

Tgt Ion: 62 Resp: 1176

Ion Ratio Lower Upper

62 100

98 0.0 0.0 20.8



#43

Isopropyl Acetate

Concen: 38.725 ug/l

RT: 8.694 min Scan# 1129

Delta R.T. -0.000 min

Lab File: VN076049.D

Acq: 29 Dec 2022 15:18

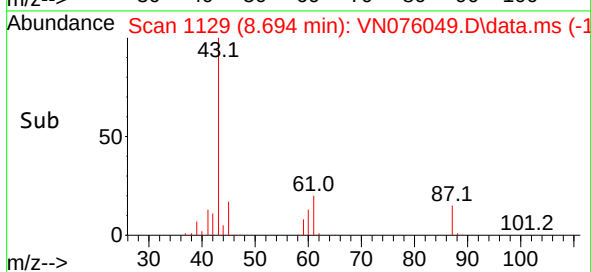
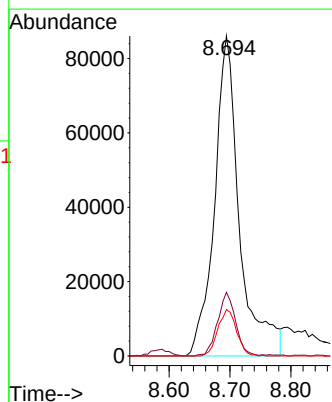
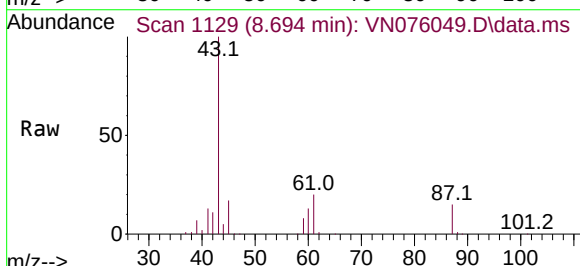
Tgt Ion: 43 Resp: 244475

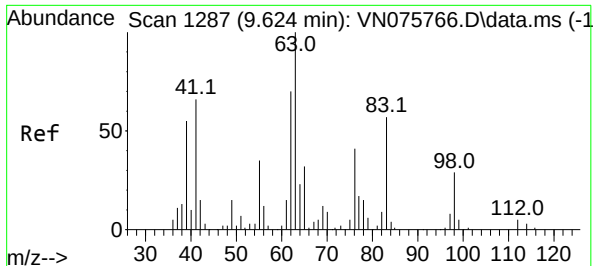
Ion Ratio Lower Upper

43 100

61 14.4 24.2 36.4#

87 10.9 13.3 19.9#





#45

1,2-Dichloropropane

Concen: 0.616 ug/l

RT: 9.747 min Scan# 1308

Delta R.T. 0.123 min

Lab File: VN076049.D

Acq: 29 Dec 2022 15:18

Instrument :

MSVOA_N

ClientSampleId :

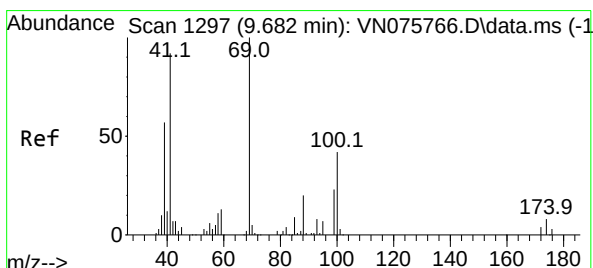
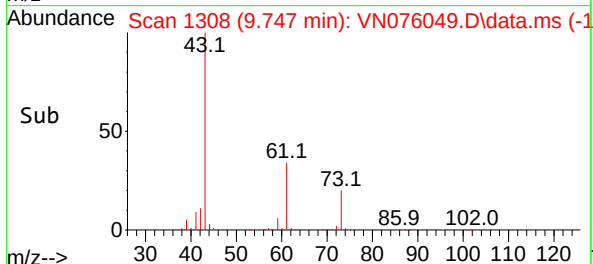
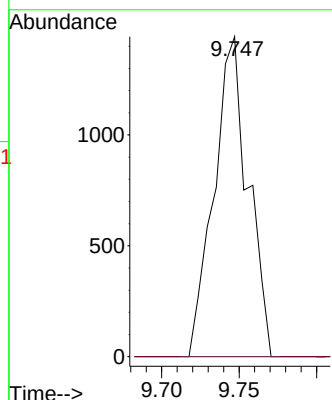
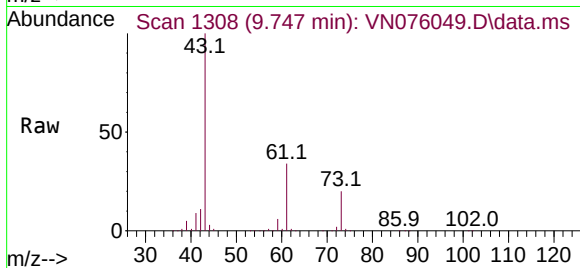
TP-3S

Tgt Ion: 63 Resp: 2205

Ion Ratio Lower Upper

63 100

65 0.0 25.7 38.5#



#48

Methyl methacrylate

Concen: 46.122 ug/l

RT: 9.747 min Scan# 1308

Delta R.T. 0.065 min

Lab File: VN076049.D

Acq: 29 Dec 2022 15:18

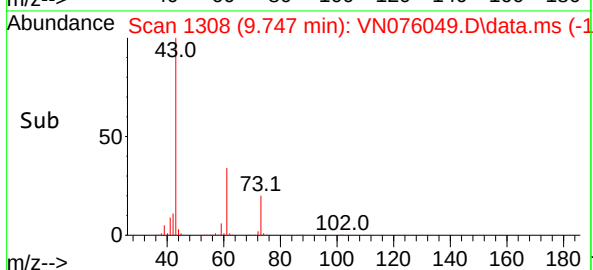
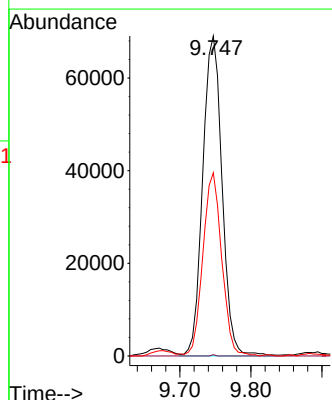
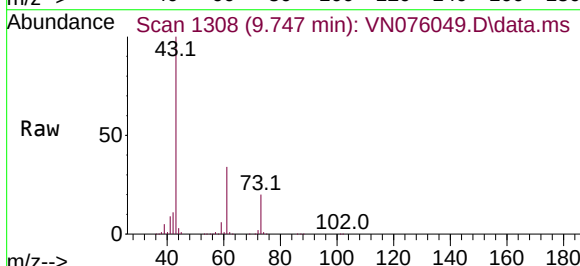
Tgt Ion: 41 Resp: 131145

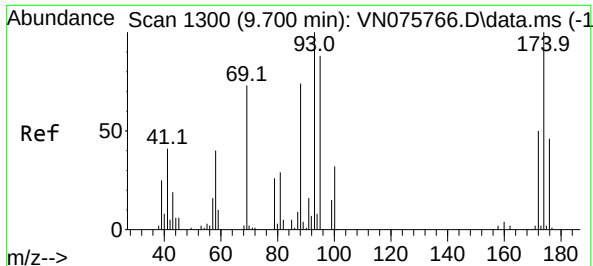
Ion Ratio Lower Upper

41 100

69 0.1 81.9 122.9#

39 55.6 51.6 77.4





#49

1,4-Dioxane

Concen: 1.745 ug/l

RT: 9.753 min Scan# 1309

Delta R.T. 0.053 min

Lab File: VN076049.D

Acq: 29 Dec 2022 15:18

Instrument :

MSVOA_N

ClientSampleId :

TP-3S

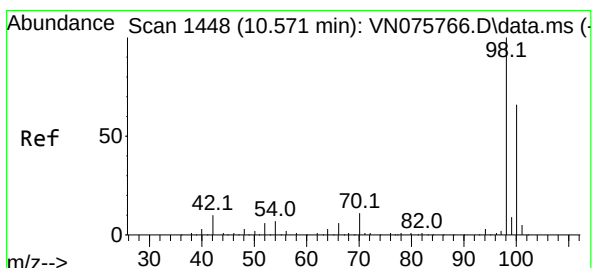
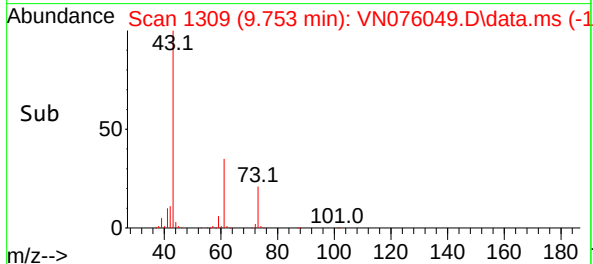
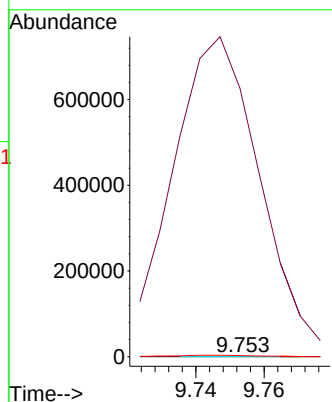
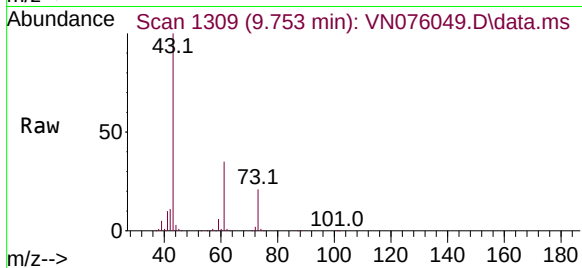
Tgt Ion: 88 Resp: 122

Ion Ratio Lower Upper

88 100

43 1121620.5 17.1 25.7#

58 5114.8 47.8 71.8#



#50

Toluene-d8

Concen: 50.242 ug/l

RT: 10.571 min Scan# 1448

Delta R.T. -0.000 min

Lab File: VN076049.D

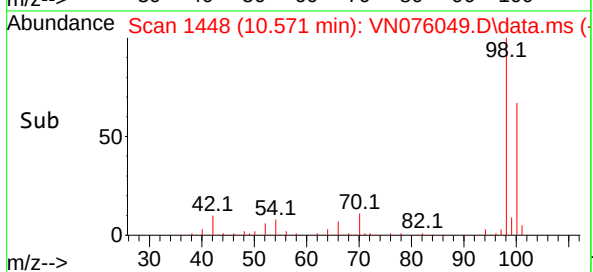
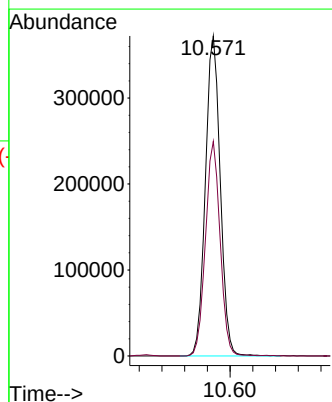
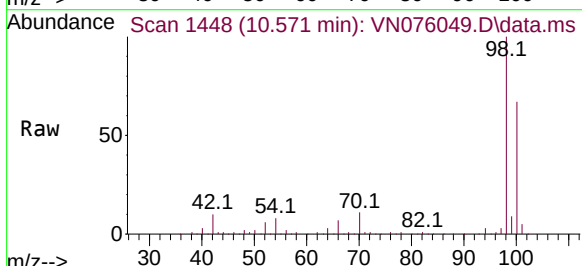
Acq: 29 Dec 2022 15:18

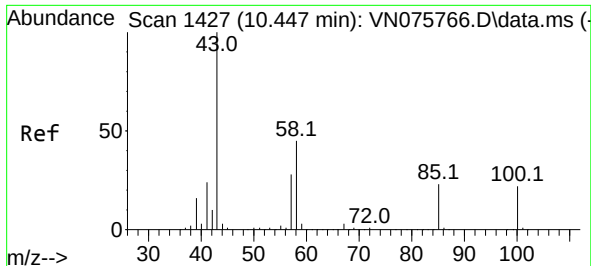
Tgt Ion: 98 Resp: 673757

Ion Ratio Lower Upper

98 100

100 66.2 52.1 78.1





#51

4-Methyl-2-Pentanone

Concen: 3.932 ug/l

RT: 10.453 min Scan# 1427

Delta R.T. 0.006 min

Lab File: VN076049.D

Acq: 29 Dec 2022 15:18

Instrument :

MSVOA_N

ClientSampleId :

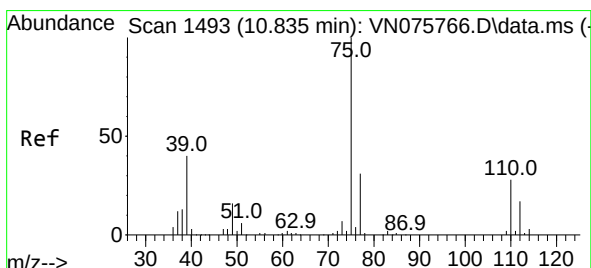
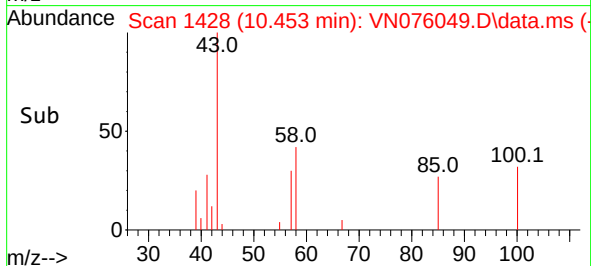
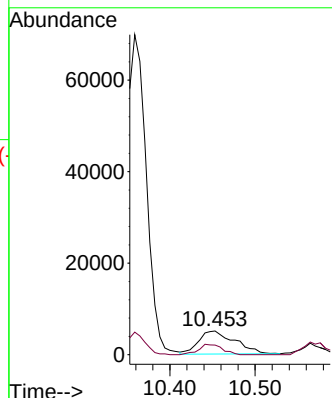
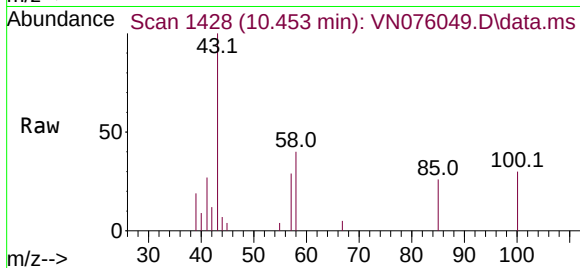
TP-3S

Tgt Ion: 43 Resp: 15013

Ion Ratio Lower Upper

43 100

58 29.1 35.5 53.3#



#53

t-1,3-Dichloropropene

Concen: 0.242 ug/l

RT: 10.729 min Scan# 1475

Delta R.T. -0.106 min

Lab File: VN076049.D

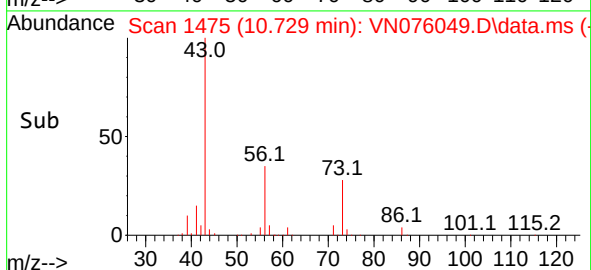
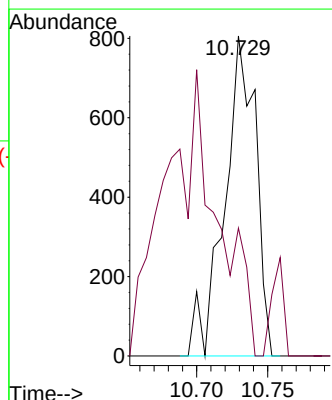
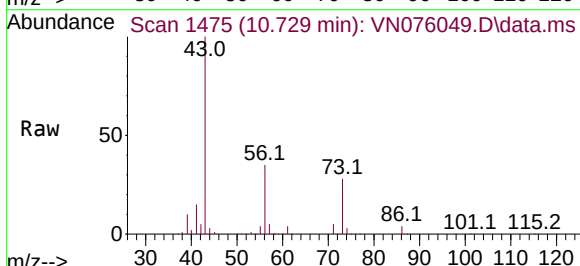
Acq: 29 Dec 2022 15:18

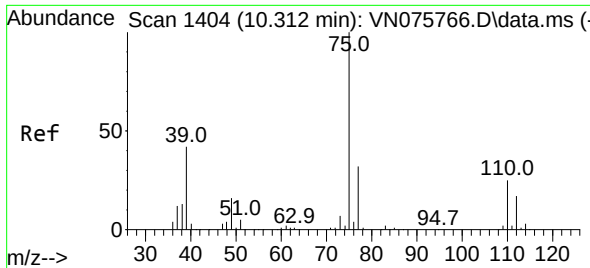
Tgt Ion: 75 Resp: 1235

Ion Ratio Lower Upper

75 100

77 9.2 24.9 37.3#

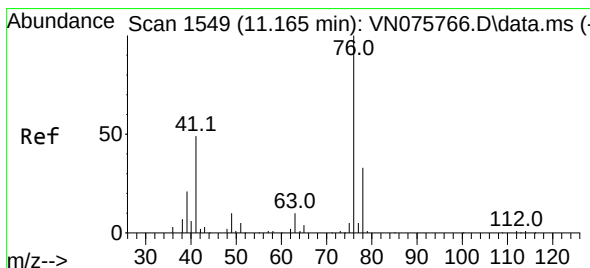
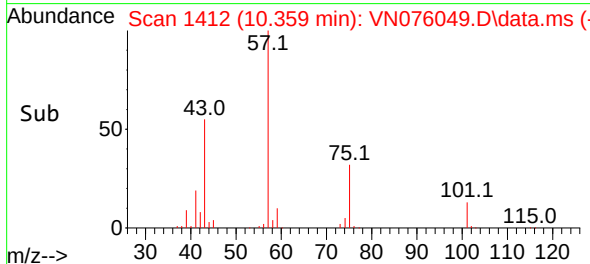
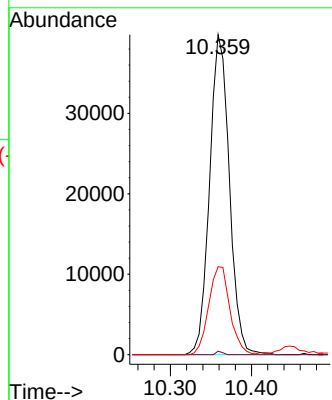
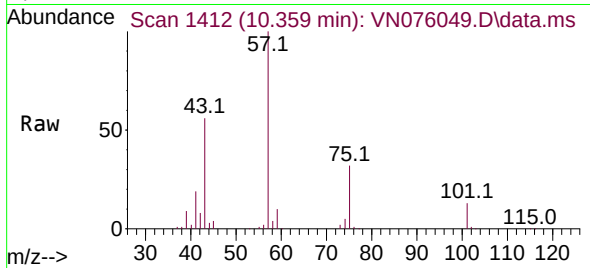




#54
 cis-1,3-Dichloropropene
 Concen: 12.025 ug/l
 RT: 10.359 min Scan# 14
 Delta R.T. 0.047 min
 Lab File: VN076049.D
 Acq: 29 Dec 2022 15:18

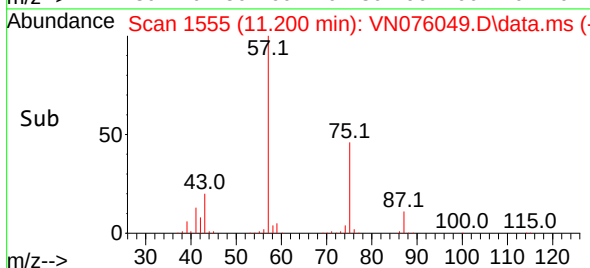
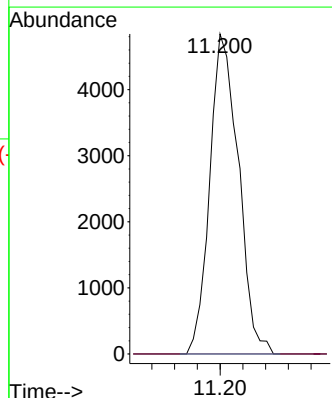
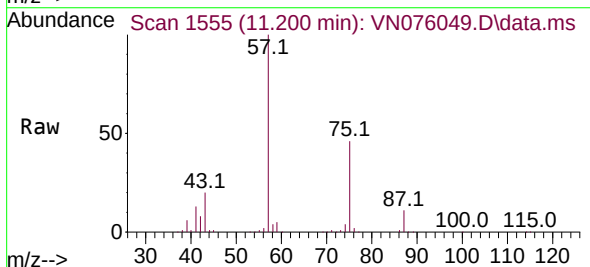
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-3S

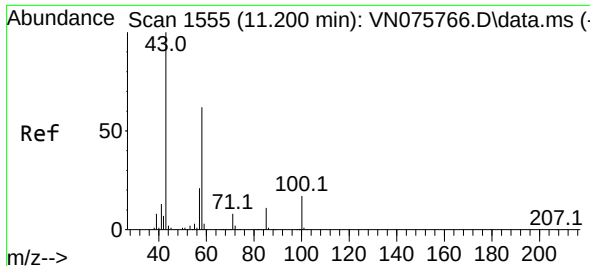
Tgt Ion: 75 Resp: 67246
 Ion Ratio Lower Upper
 75 100
 77 1.1 25.8 38.8#
 39 27.5 33.4 50.2#



#57
 1,3-Dichloropropane
 Concen: 1.376 ug/l
 RT: 11.200 min Scan# 1555
 Delta R.T. 0.035 min
 Lab File: VN076049.D
 Acq: 29 Dec 2022 15:18

Tgt Ion: 76 Resp: 8483
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.2#

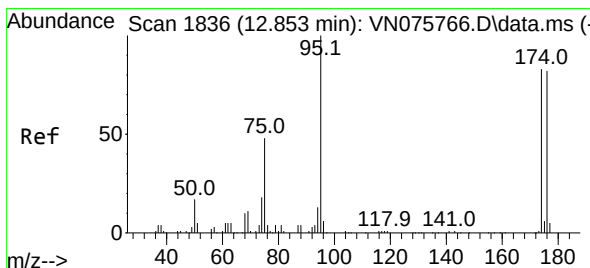
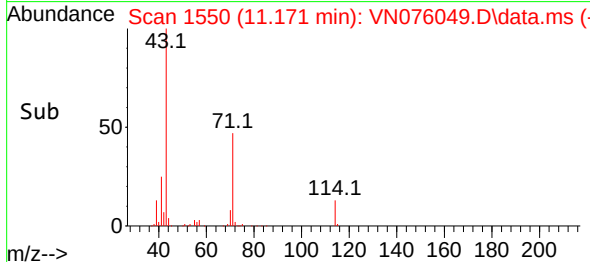
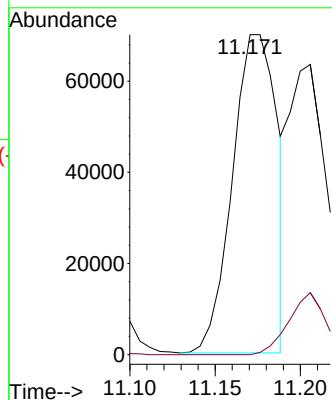
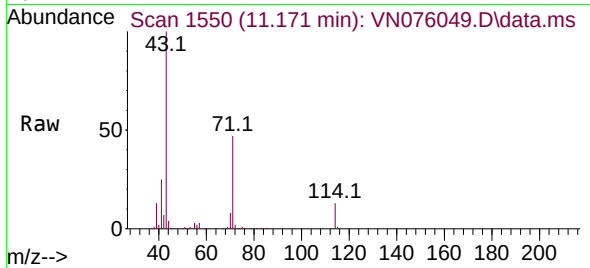




#59
2-Hexanone
Concen: 45.721 ug/l
RT: 11.171 min Scan# 1150
Delta R.T. -0.029 min
Lab File: VN076049.D
Acq: 29 Dec 2022 15:18

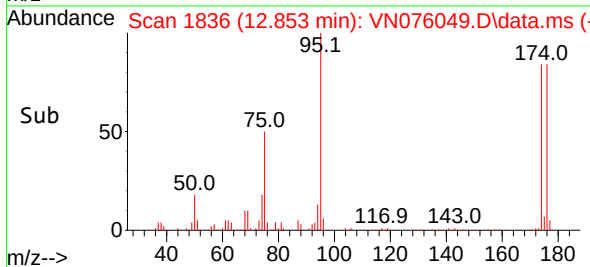
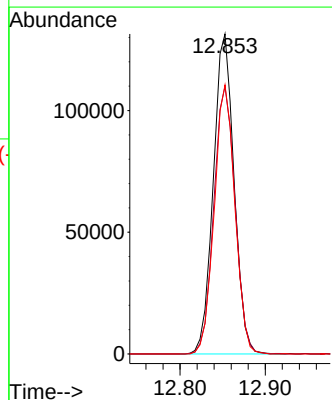
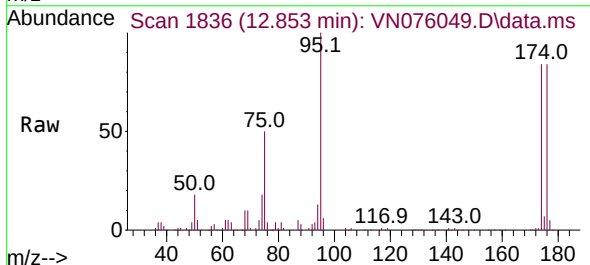
Instrument :
MSVOA_N
ClientSampleId :
TP-3S

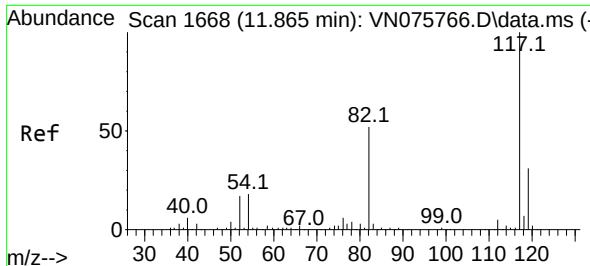
Tgt Ion: 43 Resp: 127300
Ion Ratio Lower Upper
43 100
58 0.0 30.6 92.0#



#62
4-Bromofluorobenzene
Concen: 49.922 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.000 min
Lab File: VN076049.D
Acq: 29 Dec 2022 15:18

Tgt Ion: 95 Resp: 221736
Ion Ratio Lower Upper
95 100
174 85.9 0.0 171.6
176 83.8 0.0 169.2

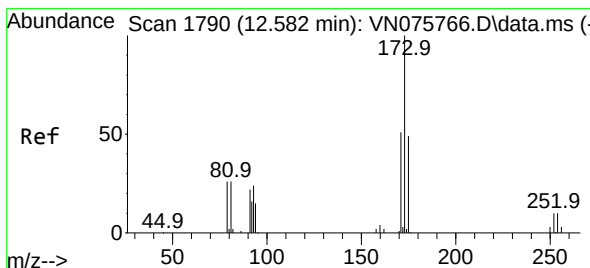
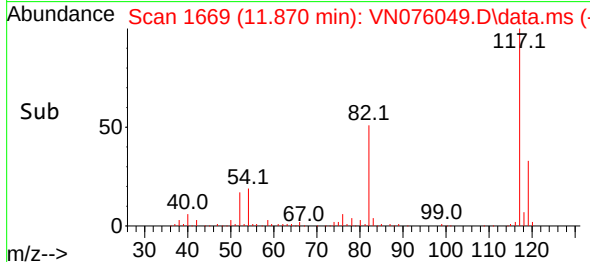
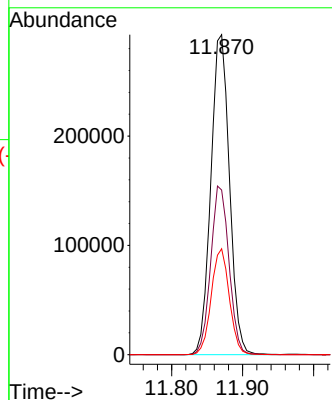
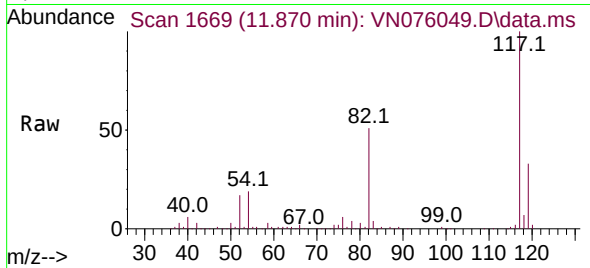




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN076049.D
Acq: 29 Dec 2022 15:18

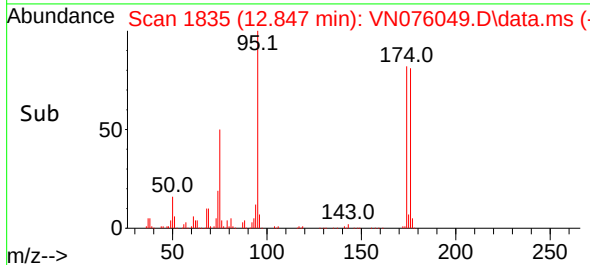
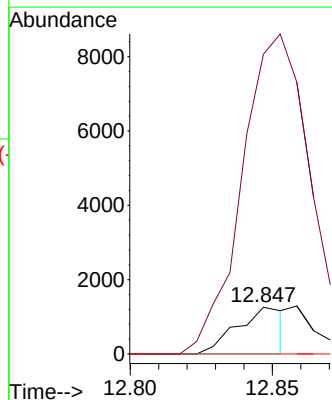
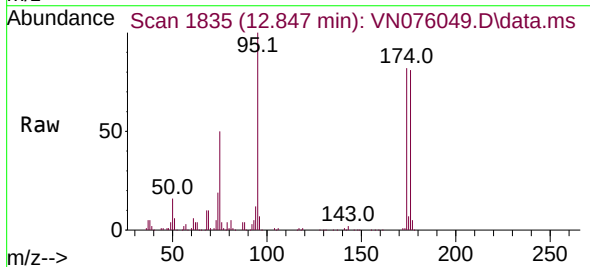
Instrument :
MSVOA_N
ClientSampleId :
TP-3S

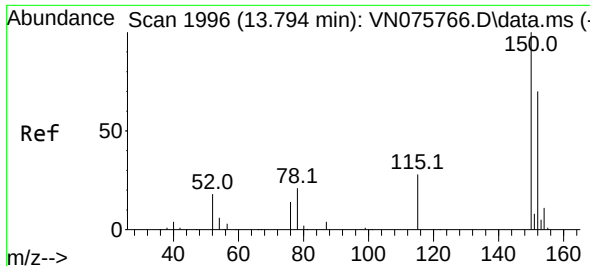
Tgt Ion:117 Resp: 531986
Ion Ratio Lower Upper
117 100
82 51.4 41.3 61.9
119 33.1 24.6 37.0



#71
Bromoform
Concen: 0.493 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. 0.265 min
Lab File: VN076049.D
Acq: 29 Dec 2022 15:18

Tgt Ion:173 Resp: 1450
Ion Ratio Lower Upper
173 100
175 822.2 24.3 72.8#
254 0.0 0.0 0.0

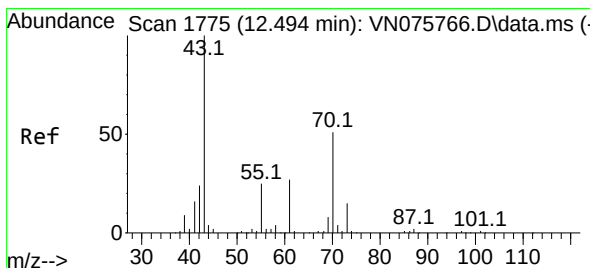
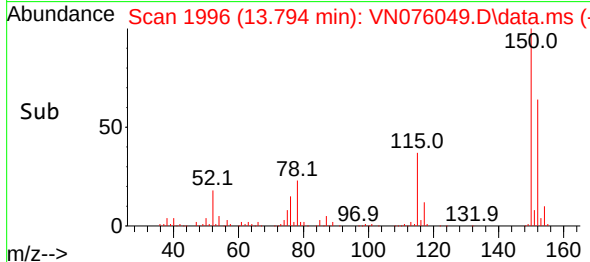
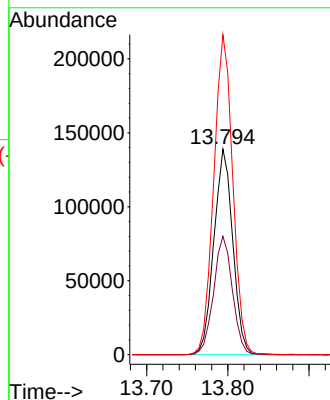
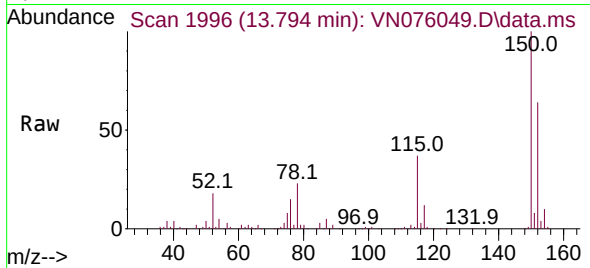




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1996
Delta R.T. -0.000 min
Lab File: VN076049.D
Acq: 29 Dec 2022 15:18

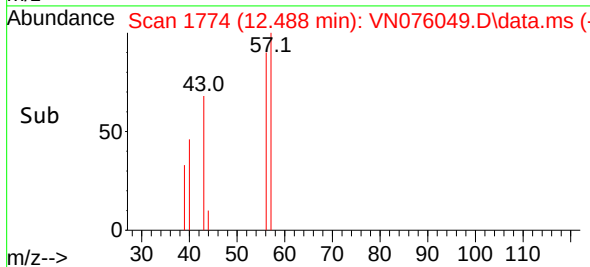
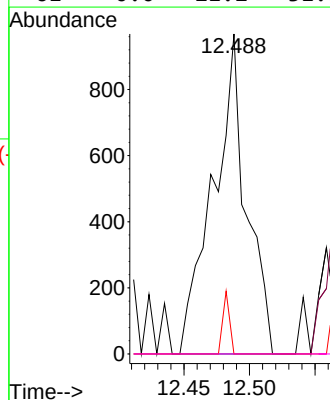
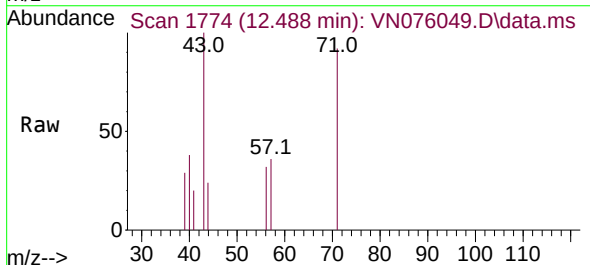
Instrument :
MSVOA_N
ClientSampleId :
TP-3S

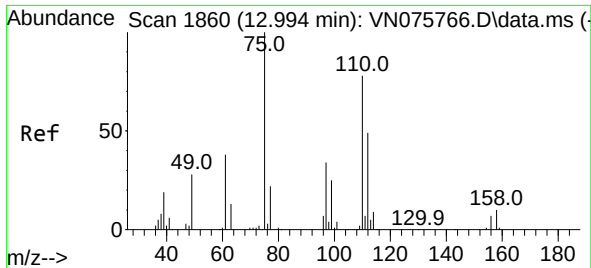
Tgt Ion:152 Resp: 224951
Ion Ratio Lower Upper
152 100
115 57.4 29.1 87.4
150 156.6 0.0 347.0



#74
N-ethyl acetate
Concen: 0.356 ug/l
RT: 12.488 min Scan# 1774
Delta R.T. -0.006 min
Lab File: VN076049.D
Acq: 29 Dec 2022 15:18

Tgt Ion: 43 Resp: 1698
Ion Ratio Lower Upper
43 100
70 0.0 41.4 62.0#
55 3.9 21.3 31.9#
61 0.0 21.2 31.8#

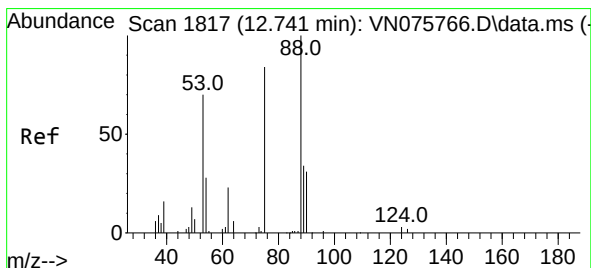
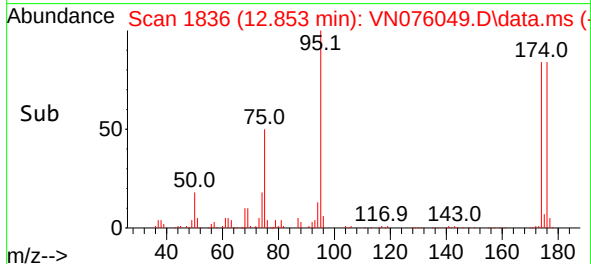
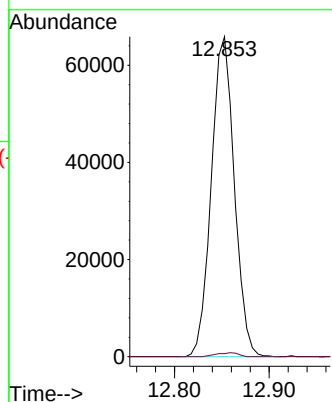
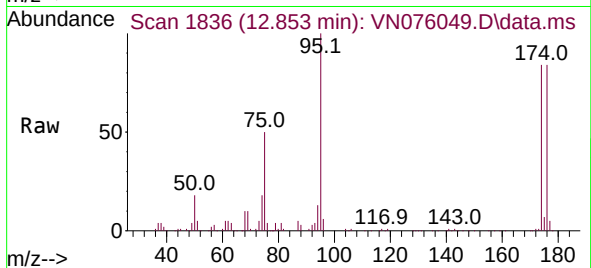




#76
1,2,3-Trichloropropane
Concen: 24.524 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.141 min
Lab File: VN076049.D
Acq: 29 Dec 2022 15:18

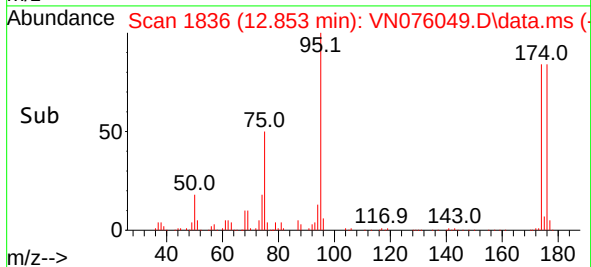
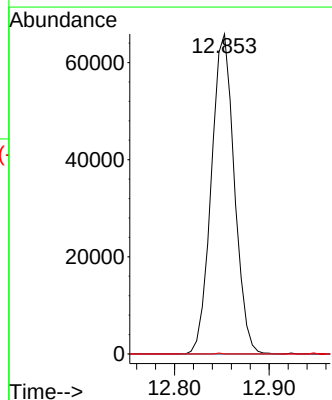
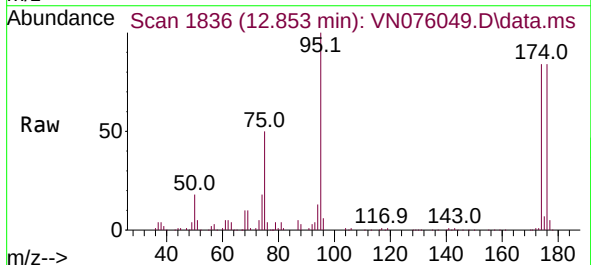
Instrument :
MSVOA_N
ClientSampleId :
TP-3S

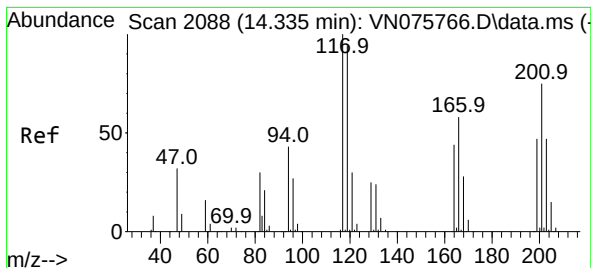
Tgt Ion: 75 Resp: 111202
Ion Ratio Lower Upper
75 100
77 1.2 82.6 247.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 88.273 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.112 min
Lab File: VN076049.D
Acq: 29 Dec 2022 15:18

Tgt Ion: 75 Resp: 111202
Ion Ratio Lower Upper
75 100
53 0.0 73.8 110.6#
89 0.1 39.5 59.3#





#90

Hexachloroethane

Concen: 0.297 ug/l

RT: 14.447 min Scan# 2107

Delta R.T. 0.112 min

Lab File: VN076049.D

Acq: 29 Dec 2022 15:18

Instrument :

MSVOA_N

ClientSampleId :

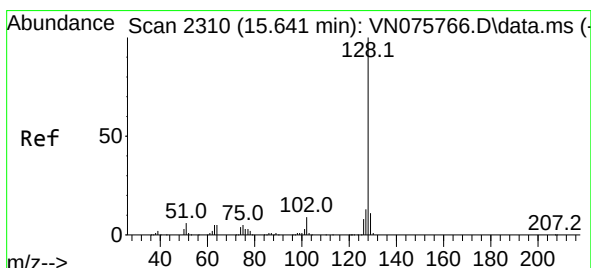
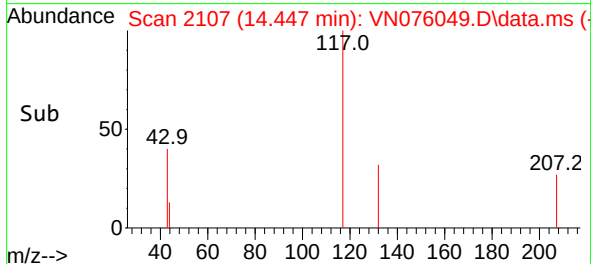
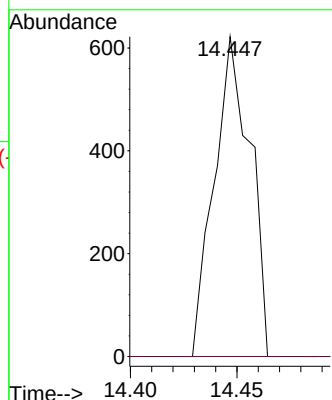
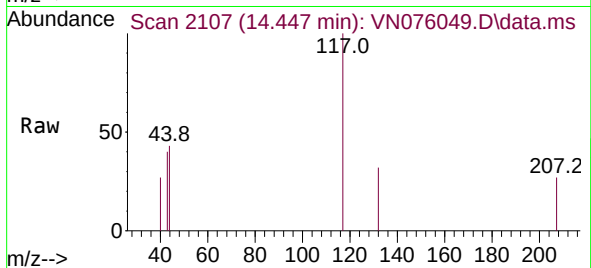
TP-3S

Tgt Ion:117 Resp: 731

Ion Ratio Lower Upper

117 100

201 0.0 38.0 114.1#



#95

Naphthalene

Concen: 2.403 ug/l

RT: 15.647 min Scan# 2311

Delta R.T. 0.006 min

Lab File: VN076049.D

Acq: 29 Dec 2022 15:18

Tgt Ion:128 Resp: 2889

Ion Ratio Lower Upper

128 100

127 2.5 10.4 15.6#

129 2.5 8.7 13.1#

