

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122922\
 Data File : VN076046.D
 Acq On : 29 Dec 2022 14:06
 Operator : JC\MD
 Sample : N6228-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-2

Quant Time: Dec 30 05:32:50 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)

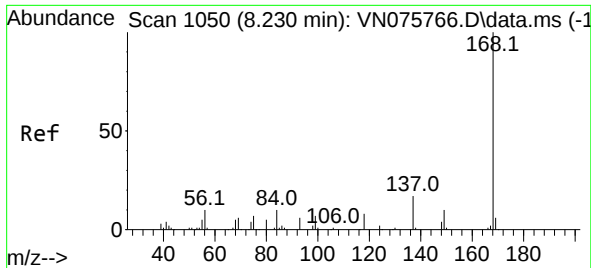
Internal Standards						
1) Pentafluorobenzene	8.230	168	364074	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	565397	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	511182	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	205914	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	178295	45.015	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	90.040%		
35) Dibromofluoromethane	8.177	113	168693	48.178	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.360%		
50) Toluene-d8	10.571	98	661055	50.495	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	101.000%		
62) 4-Bromofluorobenzene	12.847	95	206917	47.720	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	95.440%		
Target Compounds						Qvalue
11) Tert butyl alcohol	5.536	59	181	0.323	ug/l #	72
16) Acetone	4.453	43	42631	31.223	ug/l	99
18) Methyl Acetate	5.047	43	2834	0.702	ug/l	90
20) Methylene Chloride	5.294	84	13134	2.994	ug/l #	92
25) 2-Butanone	7.500	43	6946	3.633	ug/l	91
31) Cyclohexane	8.235	56	6283	1.108	ug/l #	16
36) 1,1-Dichloropropene	8.235	75	25350	5.450	ug/l #	51
37) Ethyl Acetate	7.577	43	31831	8.520	ug/l	99
38) Carbon Tetrachloride	8.230	117	34043	6.539	ug/l #	16
40) Benzene	8.618	78	4951	0.345	ug/l #	87
42) 1,2-Dichloroethane	8.694	62	1322	0.277	ug/l #	72
43) Isopropyl Acetate	8.694	43	188027	30.509	ug/l #	83
45) 1,2-Dichloropropane	9.741	63	2267	0.649	ug/l #	43
48) Methyl methacrylate	9.665	41	3928	1.415	ug/l #	34
49) 1,4-Dioxane	9.747	88	136	1.993	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	16279	4.368	ug/l #	75
53) t-1,3-Dichloropropene	10.724	75	1142	0.230	ug/l #	48
54) cis-1,3-Dichloropropene	10.359	75	70145	12.849	ug/l #	61
56) Ethyl methacrylate	10.988	69	1551	0.318	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	8675	1.442	ug/l #	42
59) 2-Hexanone	11.171	43	126782	46.644	ug/l #	20
71) Bromoform	12.847	173	1251	0.442	ug/l #	1
74) N-amyl acetate	12.488	43	1651	0.378	ug/l #	41
76) 1,2,3-Trichloropropane	12.847	75	105260	25.359	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	105260	91.281	ug/l #	12
93) 1,2,4-Trichlorobenzene	15.394	180	788	0.232	ug/l #	69
95) Naphthalene	15.635	128	4064	2.524	ug/l #	85

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

Instrument :
MSVOA_N
ClientSampleId :
TP-2

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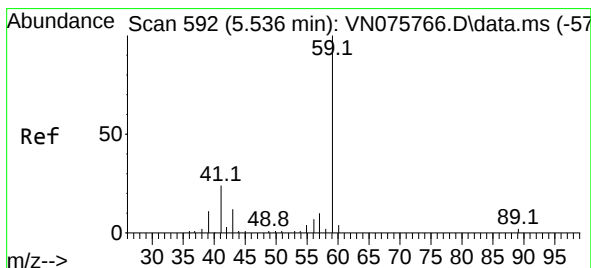
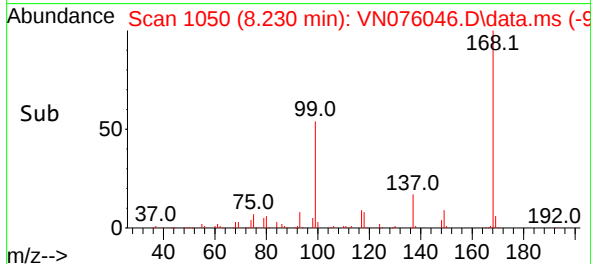
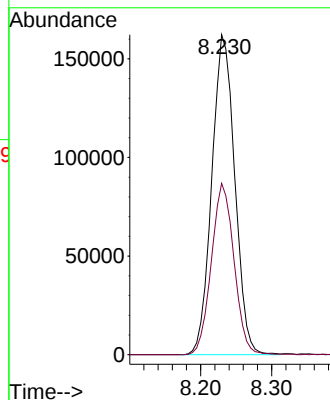
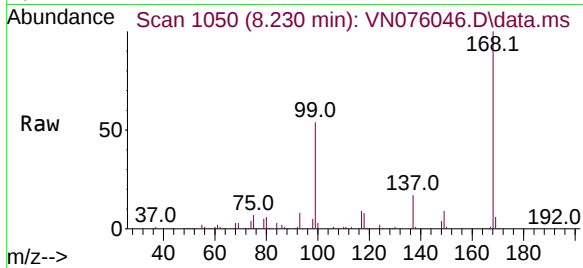




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.000 min
Lab File: VN076046.D
Acq: 29 Dec 2022 14:06

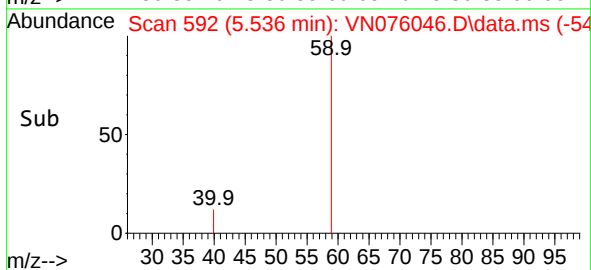
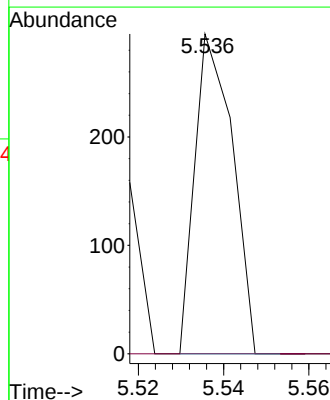
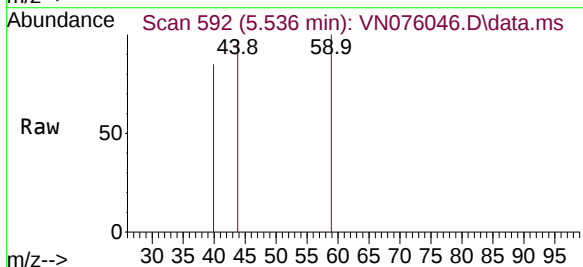
Instrument :
MSVOA_N
ClientSampleId :
TP-2

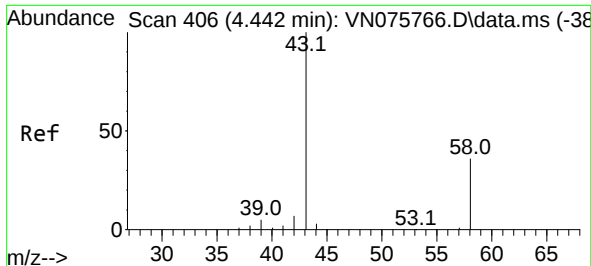
Tgt Ion:168 Resp: 364074
Ion Ratio Lower Upper
168 100
99 53.6 44.2 66.4



#11
Tert butyl alcohol
Concen: 0.323 ug/l
RT: 5.536 min Scan# 592
Delta R.T. -0.000 min
Lab File: VN076046.D
Acq: 29 Dec 2022 14:06

Tgt Ion: 59 Resp: 181
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#16

Acetone

Concen: 31.223 ug/l

RT: 4.453 min Scan# 406

Delta R.T. 0.012 min

Lab File: VN076046.D

Acq: 29 Dec 2022 14:06

Instrument :

MSVOA_N

ClientSampleId :

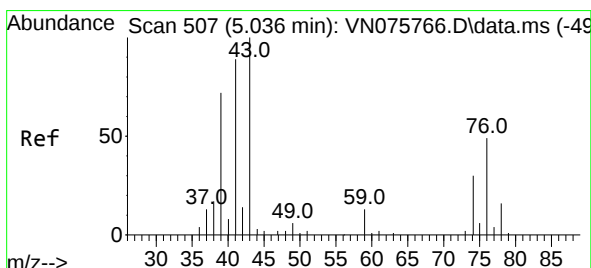
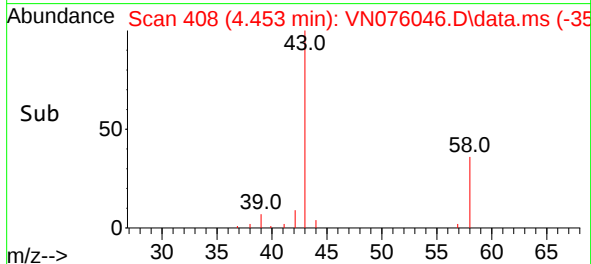
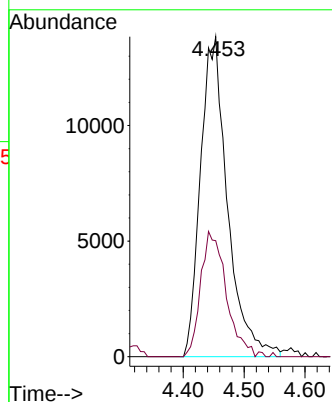
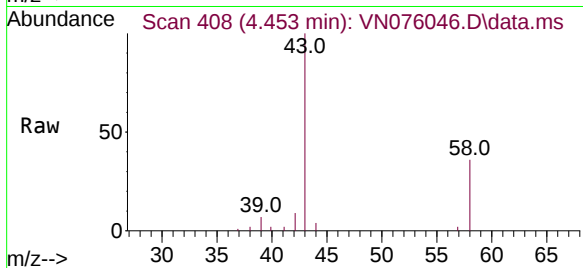
TP-2

Tgt Ion: 43 Resp: 42631

Ion Ratio Lower Upper

43 100

58 36.2 28.6 43.0



#18

Methyl Acetate

Concen: 0.702 ug/l

RT: 5.047 min Scan# 509

Delta R.T. 0.012 min

Lab File: VN076046.D

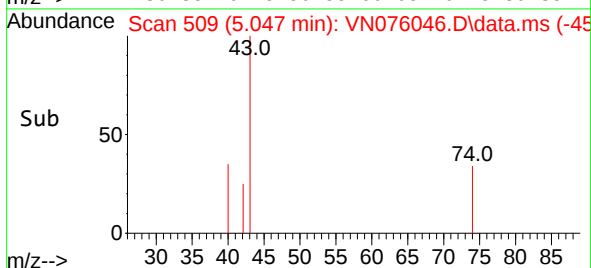
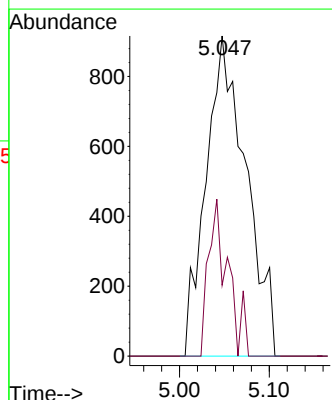
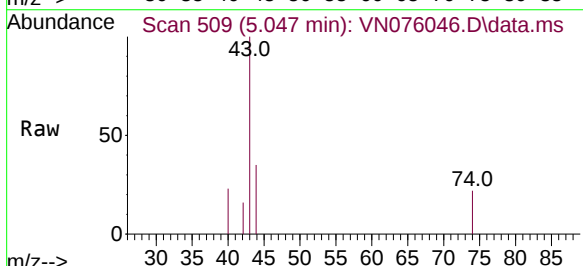
Acq: 29 Dec 2022 14:06

Tgt Ion: 43 Resp: 2834

Ion Ratio Lower Upper

43 100

74 24.0 23.6 35.4

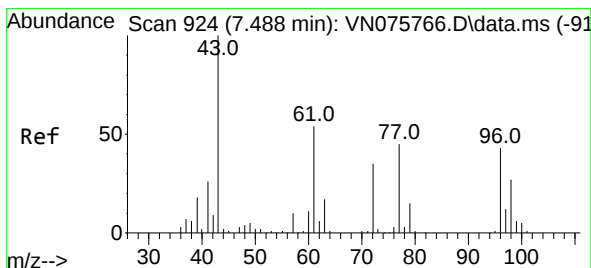
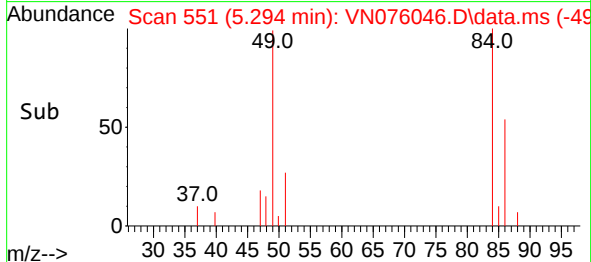
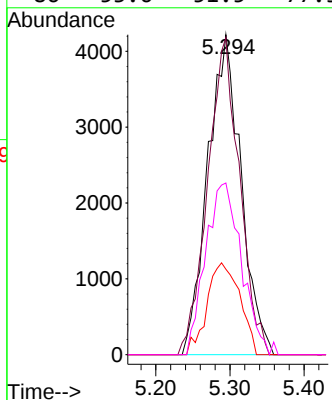
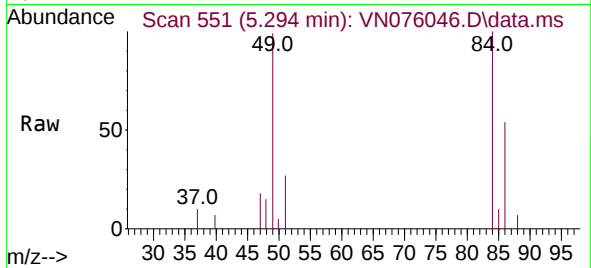




#20
Methylene Chloride
Concen: 2.994 ug/l
RT: 5.294 min Scan# 511
Delta R.T. 0.005 min
Lab File: VN076046.D
Acq: 29 Dec 2022 14:06

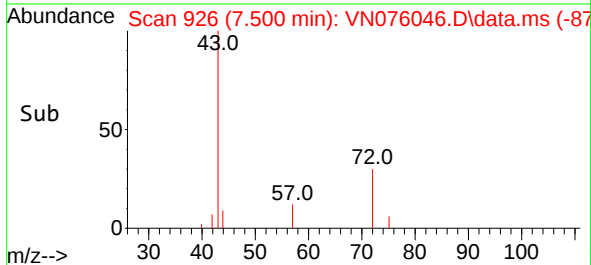
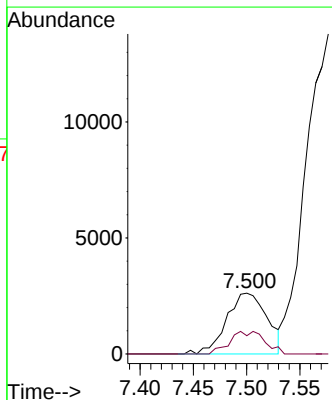
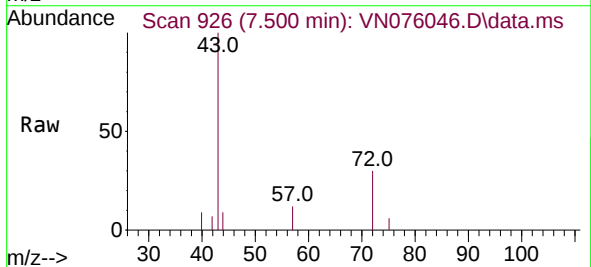
Instrument :
MSVOA_N
ClientSampleId :
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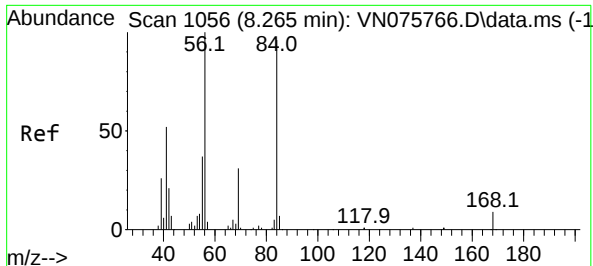
Tgt	Ion: 84	Resp:	13134
Ion	Ratio	Lower	Upper
84	100		
49	99.0	81.8	122.6
51	26.7	26.7	40.1#
86	53.6	51.5	77.3



#25
2-Butanone
Concen: 3.633 ug/l
RT: 7.500 min Scan# 926
Delta R.T. 0.012 min
Lab File: VN076046.D
Acq: 29 Dec 2022 14:06

Tgt Ion: 43	Resp: 6946		
Ion Ratio	Lower	Upper	
43 100			
72 29.9	28.0	42.0	

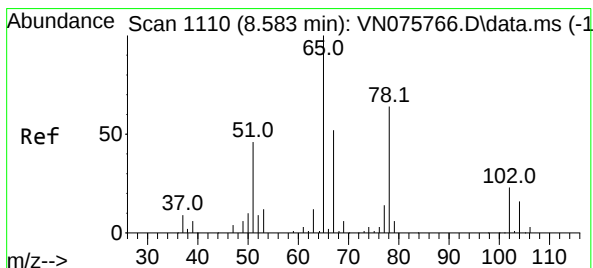
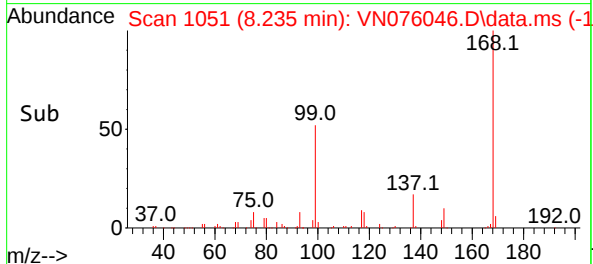
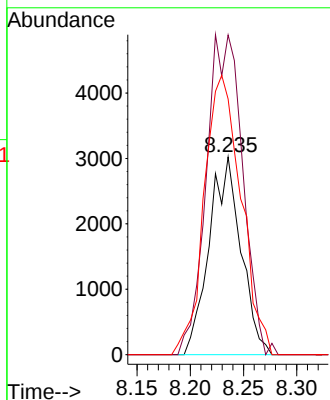
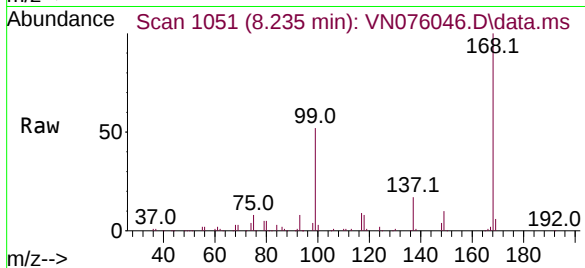




#31
Cyclohexane
Concen: 1.108 ug/l
RT: 8.235 min Scan# 1105
Delta R.T. -0.029 min
Lab File: VN076046.D
Acq: 29 Dec 2022 14:06

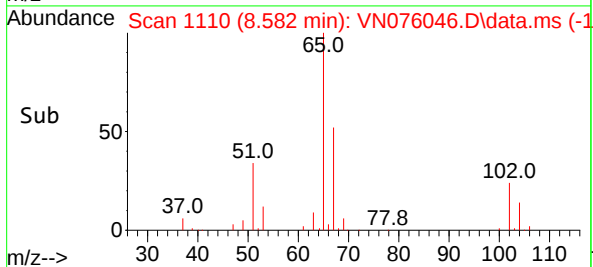
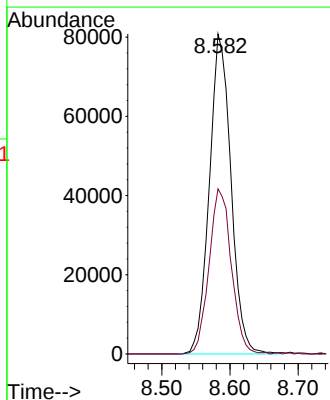
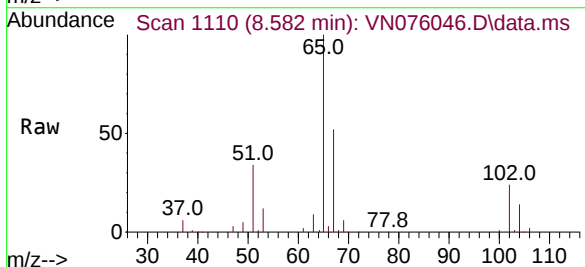
Instrument :
MSVOA_N
ClientSampleId :
TP-2

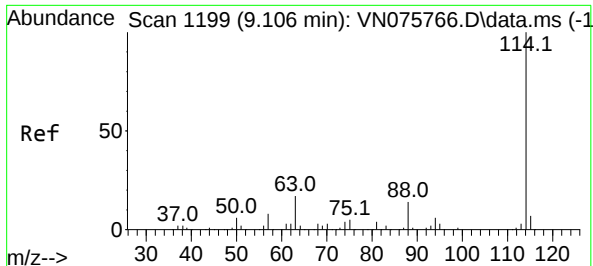
Tgt Ion: 56 Resp: 6283
Ion Ratio Lower Upper
56 100
69 161.6 24.7 37.1#
84 129.3 76.5 114.7#



#33
1,2-Dichloroethane-d4
Concen: 45.015 ug/l
RT: 8.582 min Scan# 1110
Delta R.T. -0.000 min
Lab File: VN076046.D
Acq: 29 Dec 2022 14:06

Tgt Ion: 65 Resp: 178295
Ion Ratio Lower Upper
65 100
67 53.2 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: VN076046.D

Acq: 29 Dec 2022 14:06

Instrument :

MSVOA_N

ClientSampleId :

TP-2

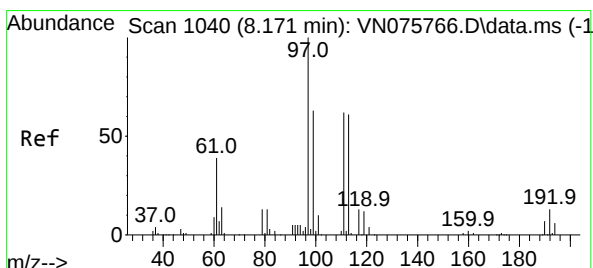
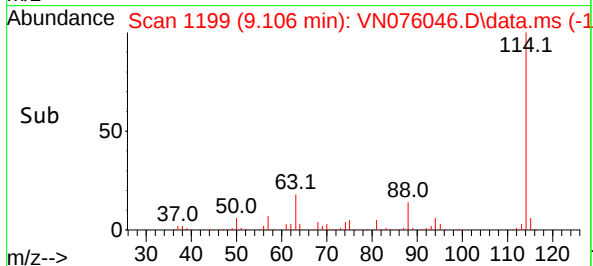
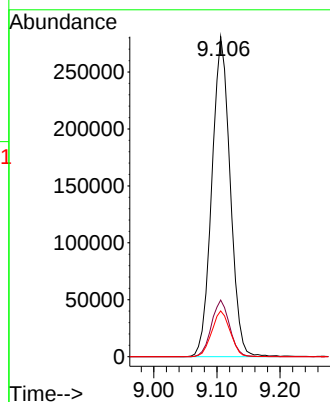
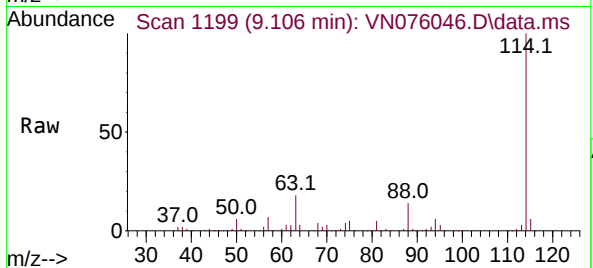
Tgt Ion:114 Resp: 565397

Ion Ratio Lower Upper

114 100

63 17.7 0.0 34.4

88 14.3 0.0 28.8



#35

Dibromofluoromethane

Concen: 48.178 ug/l

RT: 8.177 min Scan# 1041

Delta R.T. 0.006 min

Lab File: VN076046.D

Acq: 29 Dec 2022 14:06

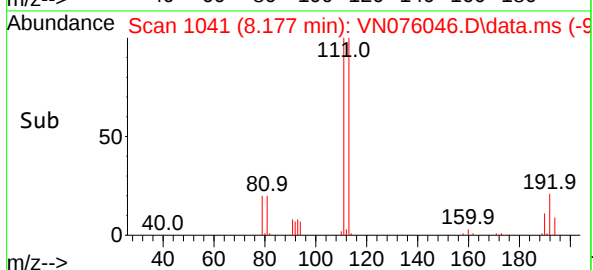
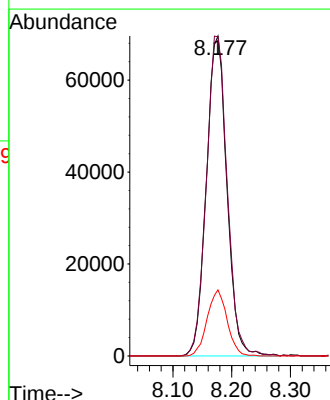
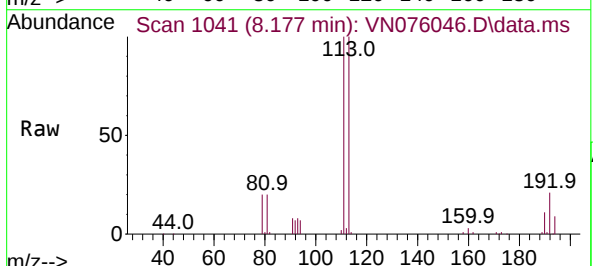
Tgt Ion:113 Resp: 168693

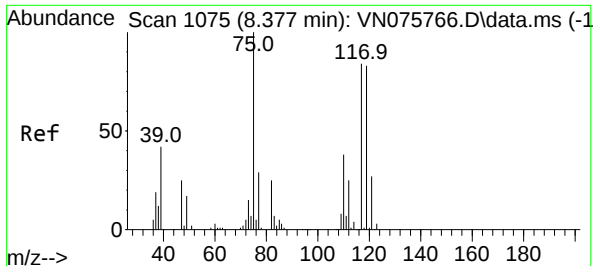
Ion Ratio Lower Upper

113 100

111 101.9 83.4 125.2

192 20.1 16.1 24.1





#36

1,1-Dichloropropene

Concen: 5.450 ug/l

RT: 8.235 min Scan# 1051

Delta R.T. -0.141 min

Lab File: VN076046.D

Acq: 29 Dec 2022 14:06

Instrument :

MSVOA_N

ClientSampleId :

TP-2

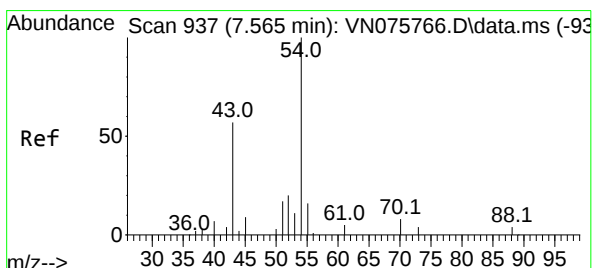
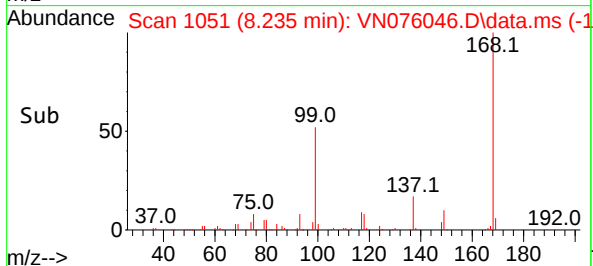
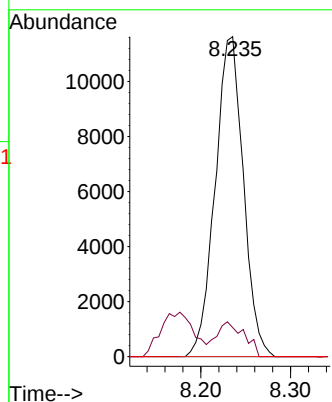
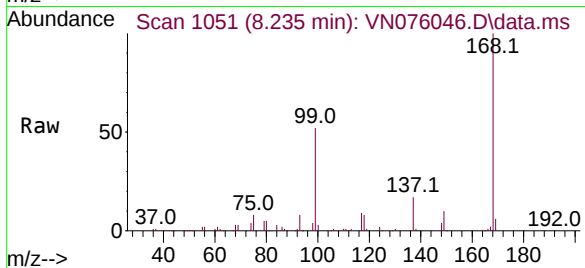
Tgt Ion: 75 Resp: 25350

Ion Ratio Lower Upper

75 100

110 10.8 18.8 56.4#

77 0.0 24.1 36.1#



#37

Ethyl Acetate

Concen: 8.520 ug/l

RT: 7.577 min Scan# 939

Delta R.T. 0.012 min

Lab File: VN076046.D

Acq: 29 Dec 2022 14:06

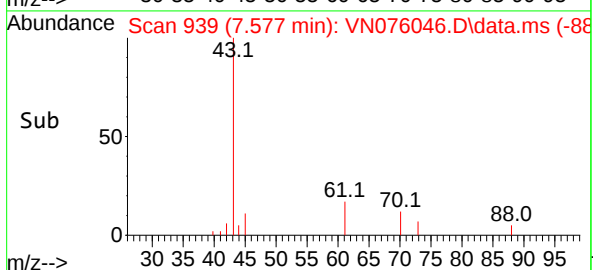
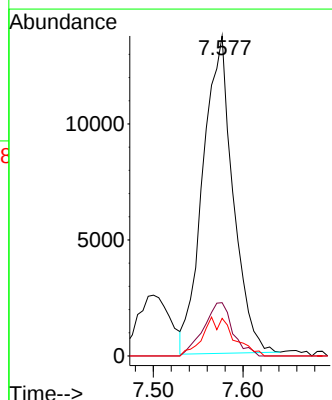
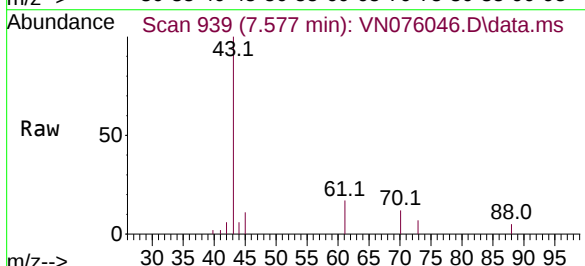
Tgt Ion: 43 Resp: 31831

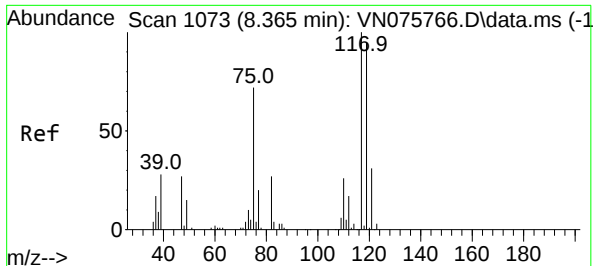
Ion Ratio Lower Upper

43 100

61 16.2 13.0 19.4

70 12.5 9.4 14.0

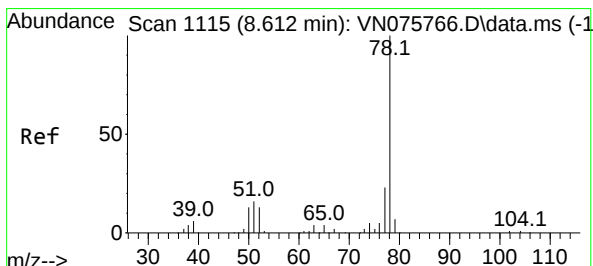
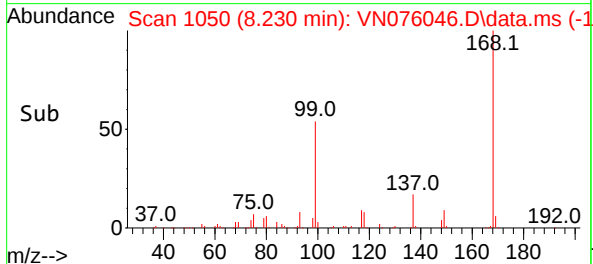
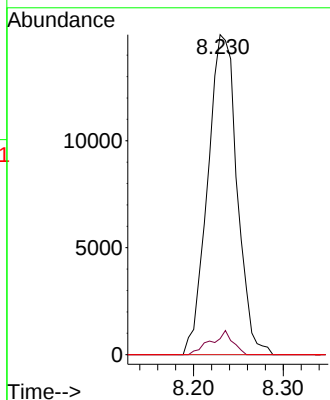
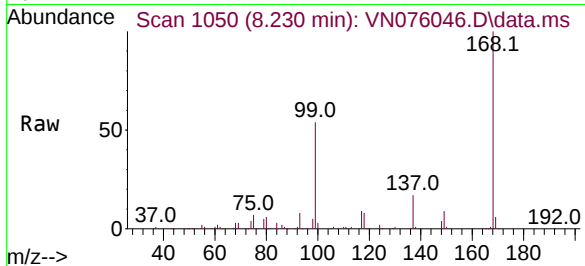




#38
Carbon Tetrachloride
Concen: 6.539 ug/l
RT: 8.230 min Scan# 1105
Delta R.T. -0.135 min
Lab File: VN076046.D
Acq: 29 Dec 2022 14:06

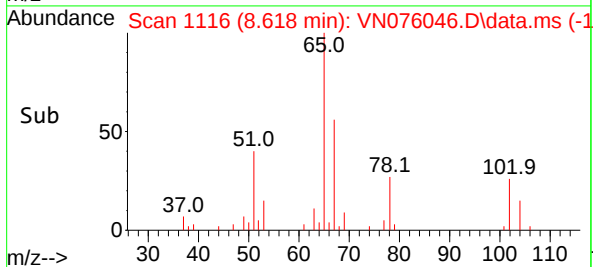
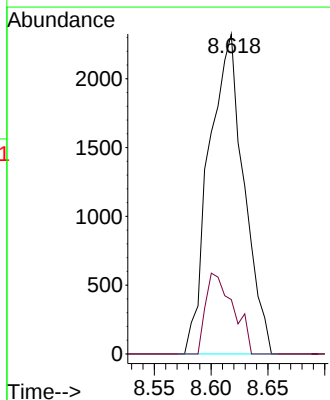
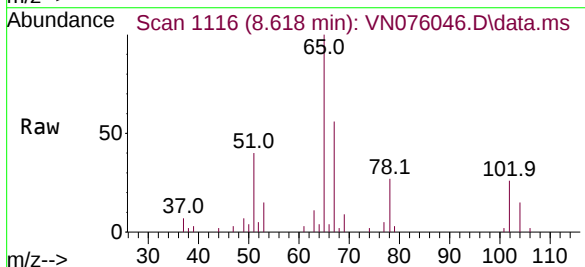
Instrument :
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ClientSampleId :
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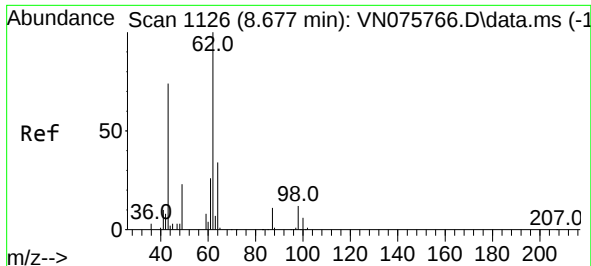
Tgt Ion:117 Resp: 34043
Ion Ratio Lower Upper
117 100
119 5.0 76.1 114.1#
121 0.0 24.5 36.7#



#40
Benzene
Concen: 0.345 ug/l
RT: 8.618 min Scan# 1116
Delta R.T. 0.006 min
Lab File: VN076046.D
Acq: 29 Dec 2022 14:06

Tgt Ion: 78 Resp: 4951
Ion Ratio Lower Upper
78 100
77 17.0 18.5 27.7#





#42

1,2-Dichloroethane

Concen: 0.277 ug/l

RT: 8.694 min Scan# 1129

Delta R.T. 0.018 min

Lab File: VN076046.D

Acq: 29 Dec 2022 14:06

Instrument :

MSVOA_N

ClientSampleId :

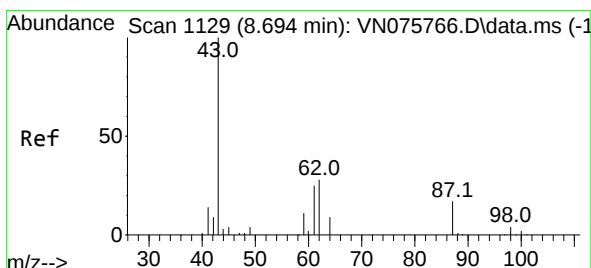
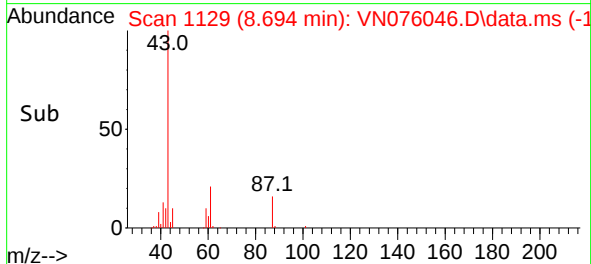
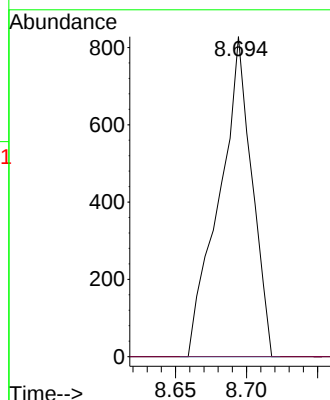
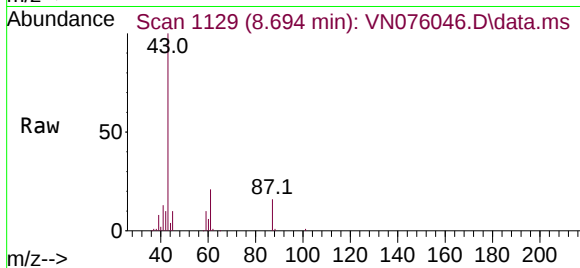
TP-2

Tgt Ion: 62 Resp: 1322

Ion Ratio Lower Upper

62 100

98 0.0 0.0 20.8



#43

Isopropyl Acetate

Concen: 30.509 ug/l

RT: 8.694 min Scan# 1129

Delta R.T. -0.000 min

Lab File: VN076046.D

Acq: 29 Dec 2022 14:06

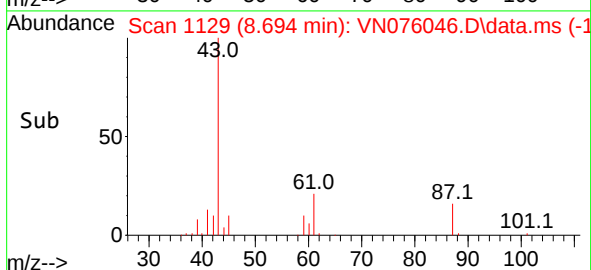
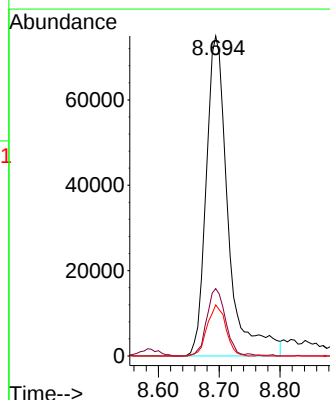
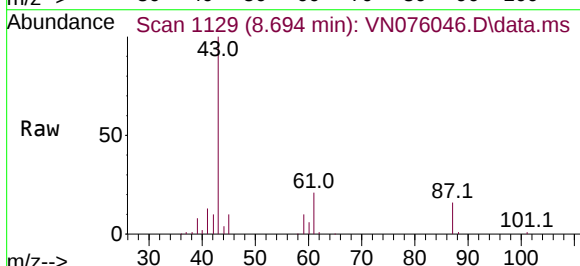
Tgt Ion: 43 Resp: 188027

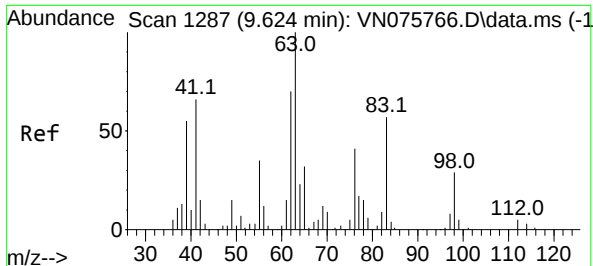
Ion Ratio Lower Upper

43 100

61 17.8 24.2 36.4#

87 13.5 13.3 19.9





#45

1,2-Dichloropropane

Concen: 0.649 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.118 min

Lab File: VN076046.D

Acq: 29 Dec 2022 14:06

Instrument :

MSVOA_N

ClientSampleId :

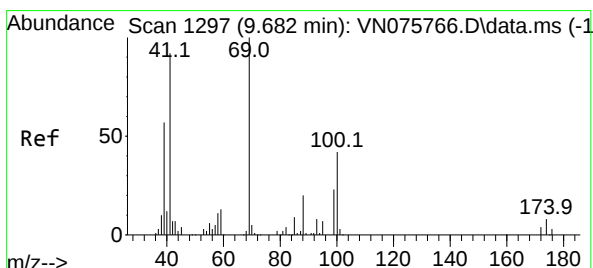
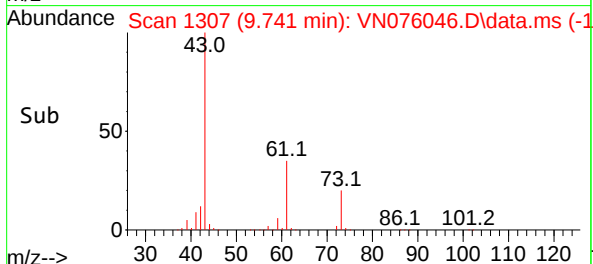
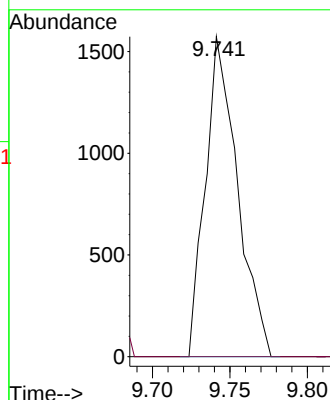
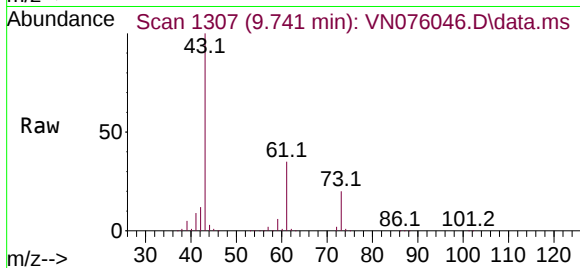
TP-2

Tgt Ion: 63 Resp: 2267

Ion Ratio Lower Upper

63 100

65 0.0 25.7 38.5#



#48

Methyl methacrylate

Concen: 1.415 ug/l

RT: 9.665 min Scan# 1294

Delta R.T. -0.018 min

Lab File: VN076046.D

Acq: 29 Dec 2022 14:06

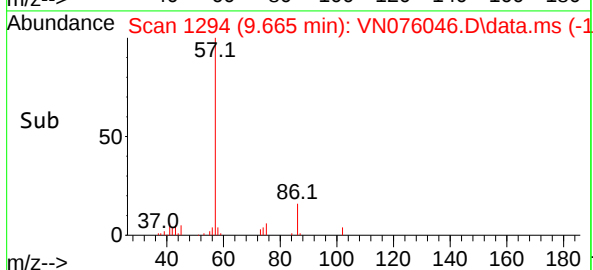
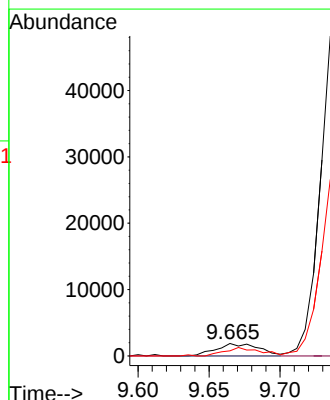
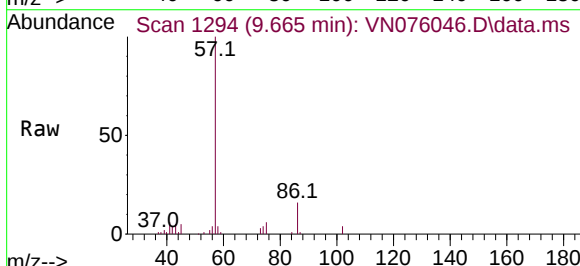
Tgt Ion: 41 Resp: 3928

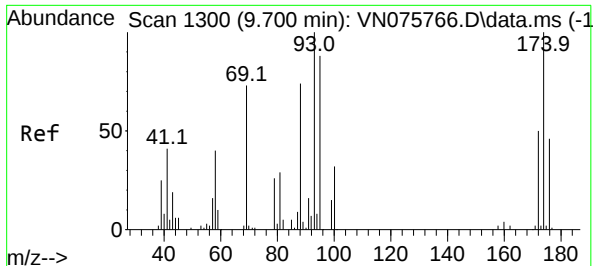
Ion Ratio Lower Upper

41 100

69 0.0 81.9 122.9#

39 55.7 51.6 77.4





#49

1,4-Dioxane

Concen: 1.993 ug/l

RT: 9.747 min Scan# 1308

Delta R.T. 0.047 min

Lab File: VN076046.D

Acq: 29 Dec 2022 14:06

Instrument :

MSVOA_N

ClientSampleId :

TP-2

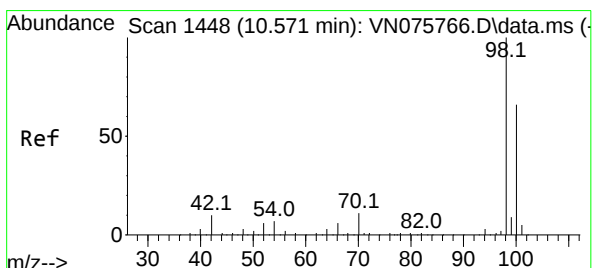
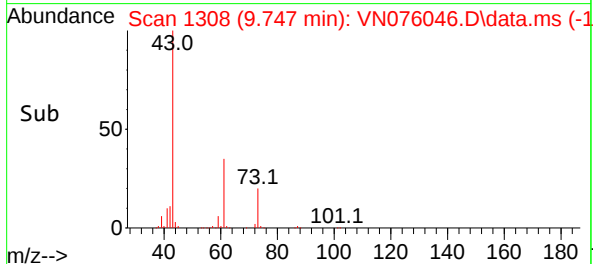
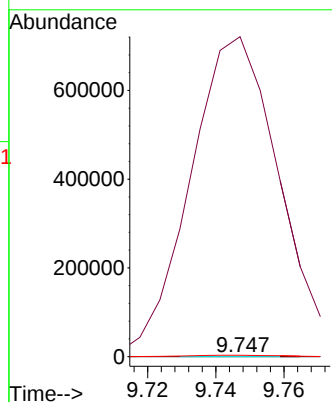
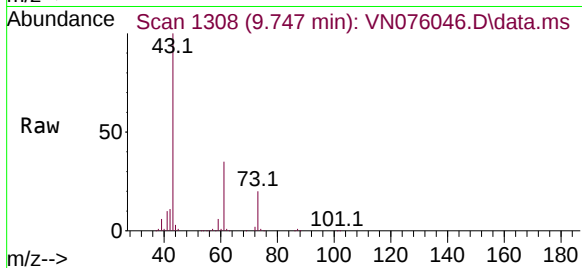
Tgt Ion: 88 Resp: 136

Ion Ratio Lower Upper

88 100

43 977702.2 17.1 25.7#

58 4625.0 47.8 71.8#



#50

Toluene-d8

Concen: 50.495 ug/l

RT: 10.571 min Scan# 1448

Delta R.T. -0.000 min

Lab File: VN076046.D

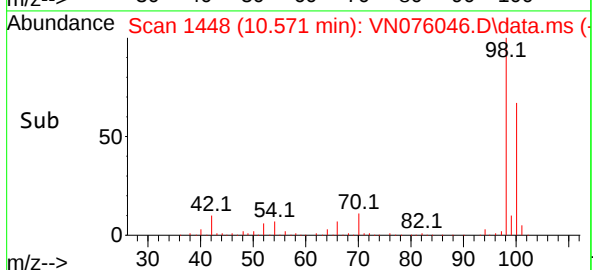
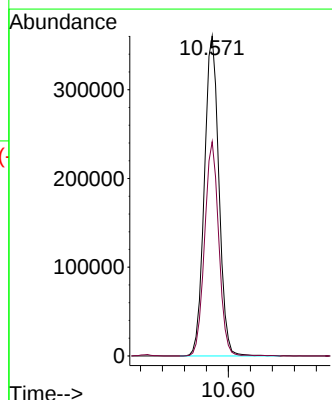
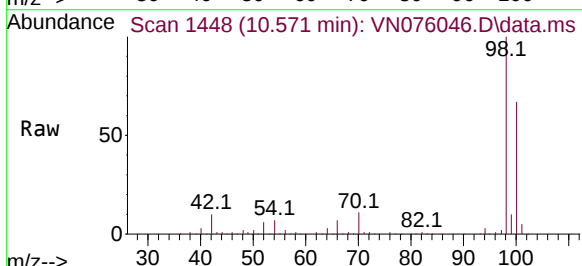
Acq: 29 Dec 2022 14:06

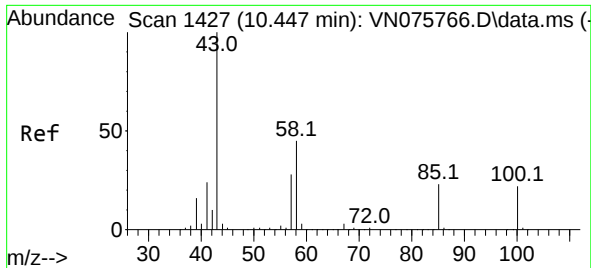
Tgt Ion: 98 Resp: 661055

Ion Ratio Lower Upper

98 100

100 65.3 52.1 78.1

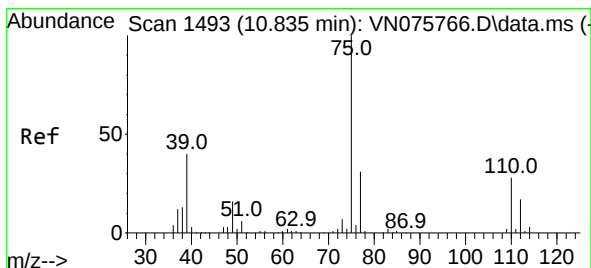
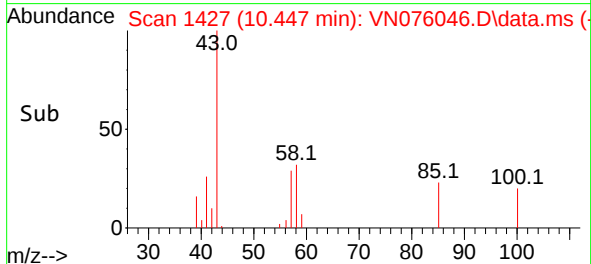
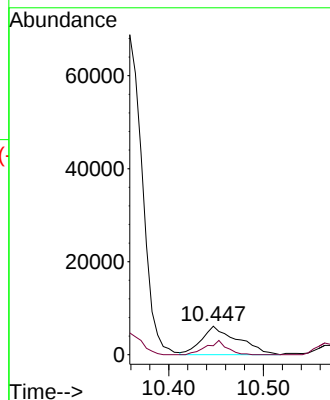
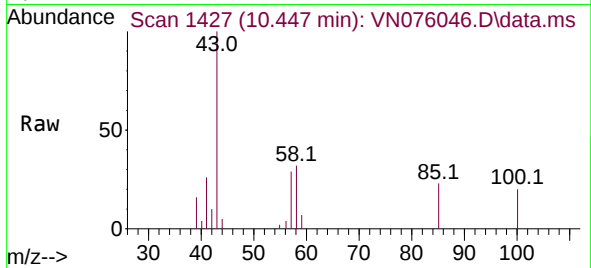




#51
4-Methyl-2-Pentanone
Concen: 4.368 ug/l
RT: 10.447 min Scan# 1427
Delta R.T. -0.000 min
Lab File: VN076046.D
Acq: 29 Dec 2022 14:06

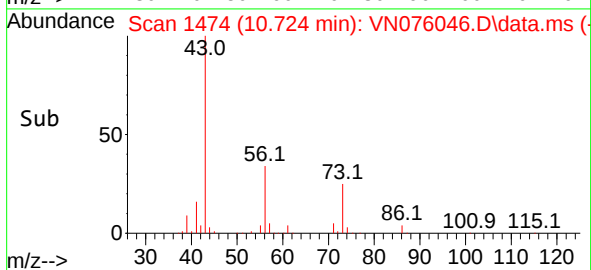
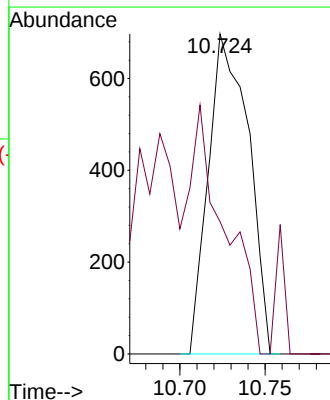
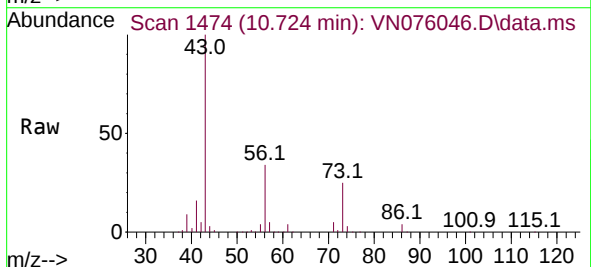
Instrument :
MSVOA_N
ClientSampleId :
TP-2

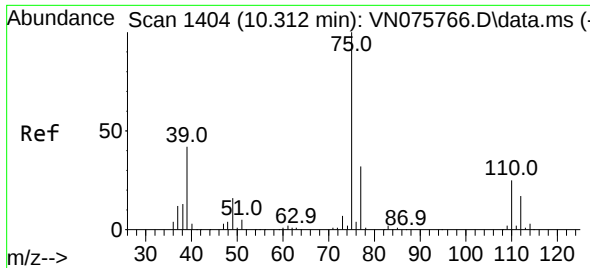
Tgt Ion: 43 Resp: 16279
Ion Ratio Lower Upper
43 100
58 28.3 35.5 53.3#



#53
t-1,3-Dichloropropene
Concen: 0.230 ug/l
RT: 10.724 min Scan# 1474
Delta R.T. -0.112 min
Lab File: VN076046.D
Acq: 29 Dec 2022 14:06

Tgt Ion: 75 Resp: 1142
Ion Ratio Lower Upper
75 100
77 2.3 24.9 37.3#

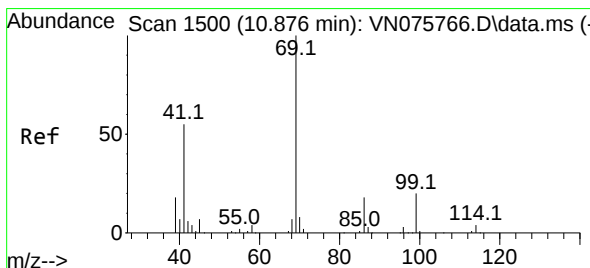
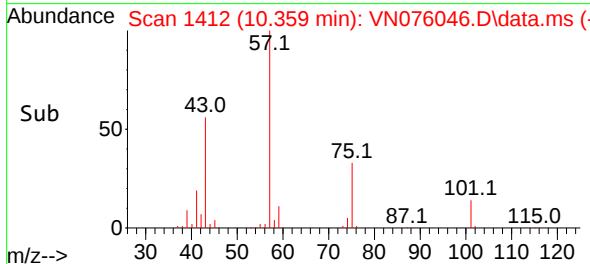
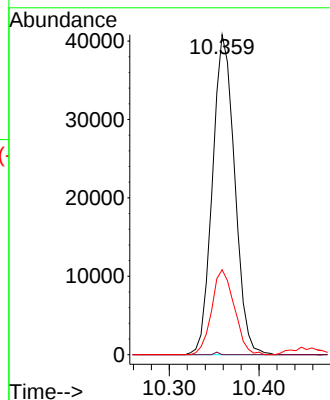
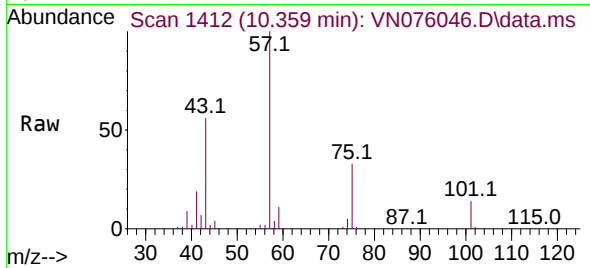




#54
 cis-1,3-Dichloropropene
 Concen: 12.849 ug/l
 RT: 10.359 min Scan# 1404
 Delta R.T. 0.047 min
 Lab File: VN076046.D
 Acq: 29 Dec 2022 14:06

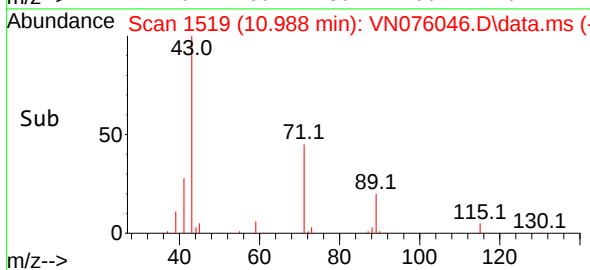
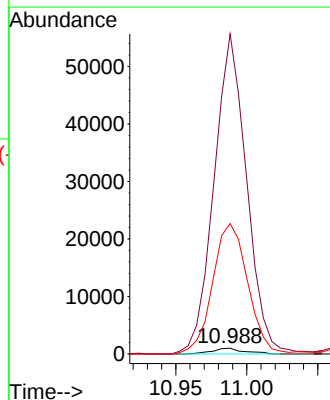
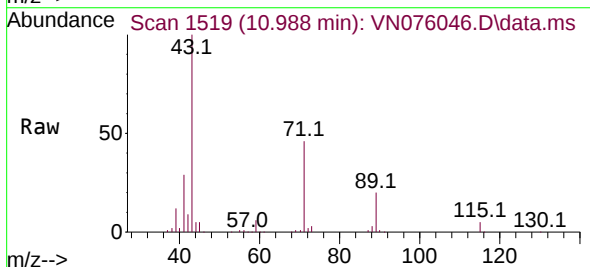
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-2

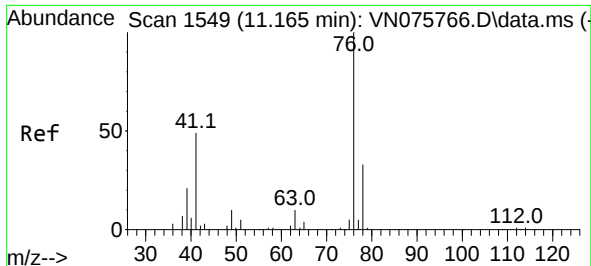
Tgt Ion: 75 Resp: 70145
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.8 38.8#
 39 26.5 33.4 50.2#



#56
 Ethyl methacrylate
 Concen: 0.318 ug/l
 RT: 10.988 min Scan# 1519
 Delta R.T. 0.112 min
 Lab File: VN076046.D
 Acq: 29 Dec 2022 14:06

Tgt Ion: 69 Resp: 1551
 Ion Ratio Lower Upper
 69 100
 41 5741.9 44.2 66.4#
 39 2532.7 26.4 39.6#





#57

1,3-Dichloropropane

Concen: 1.442 ug/l

RT: 11.206 min Scan# 1556

Delta R.T. 0.041 min

Lab File: VN076046.D

Acq: 29 Dec 2022 14:06

Instrument :

MSVOA_N

ClientSampleId :

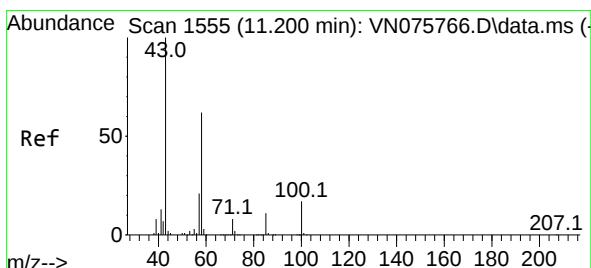
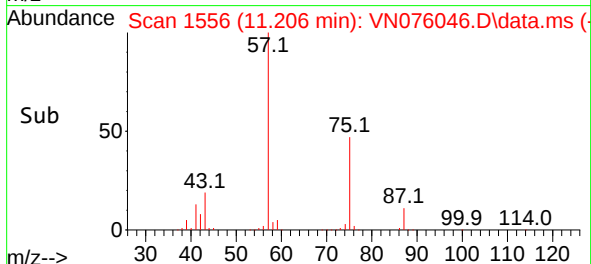
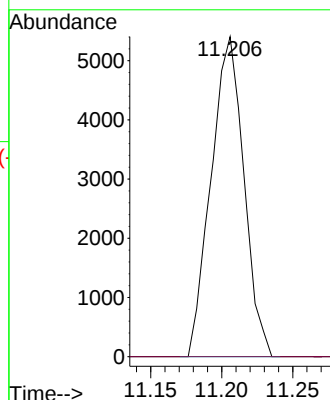
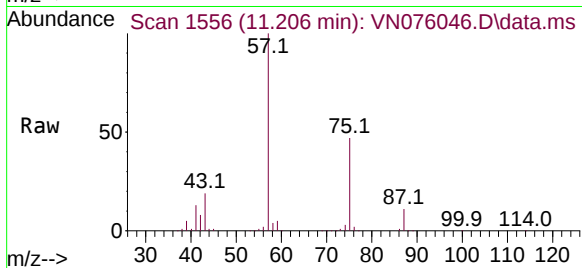
TP-2

Tgt Ion: 76 Resp: 8675

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.2#



#59

2-Hexanone

Concen: 46.644 ug/l

RT: 11.171 min Scan# 1550

Delta R.T. -0.029 min

Lab File: VN076046.D

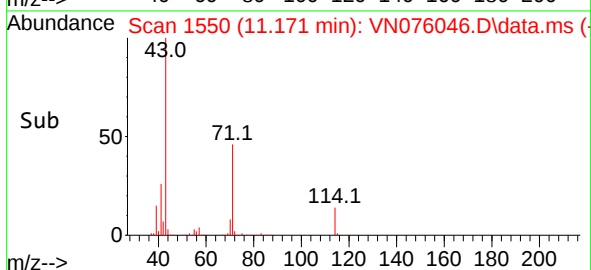
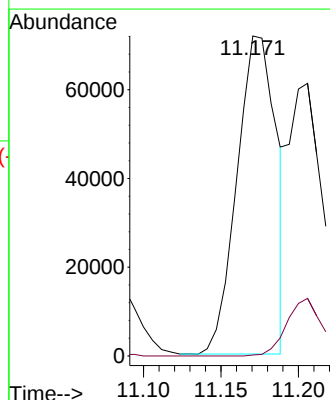
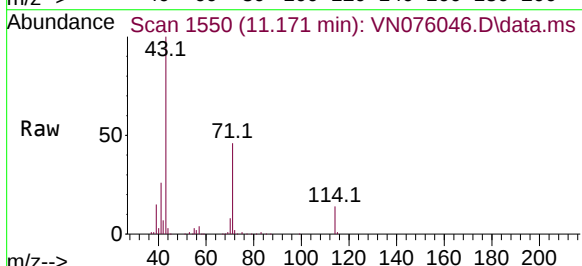
Acq: 29 Dec 2022 14:06

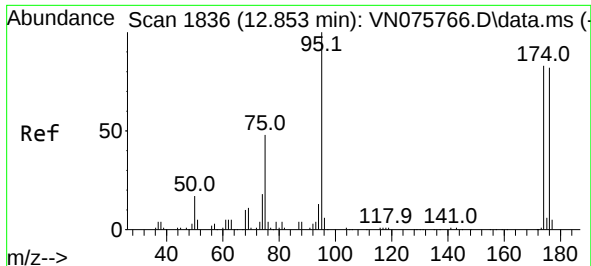
Tgt Ion: 43 Resp: 126782

Ion Ratio Lower Upper

43 100

58 0.0 30.6 92.0#

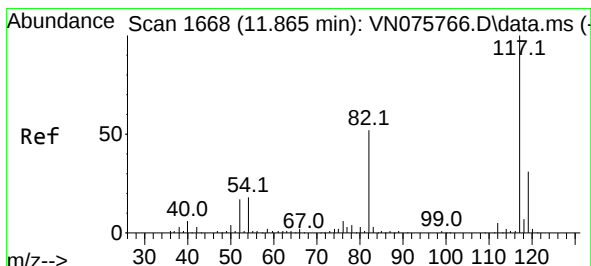
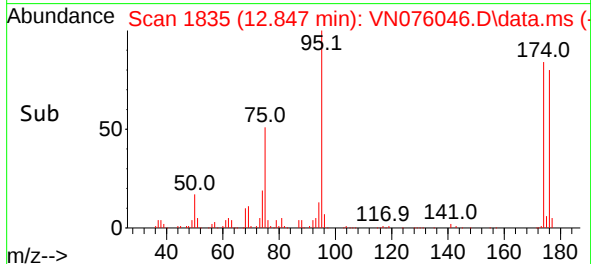
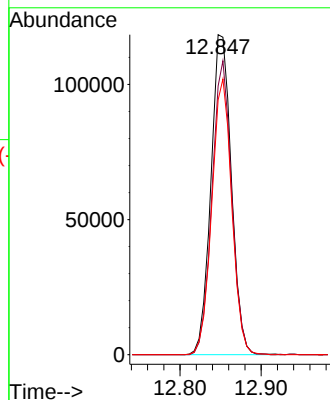
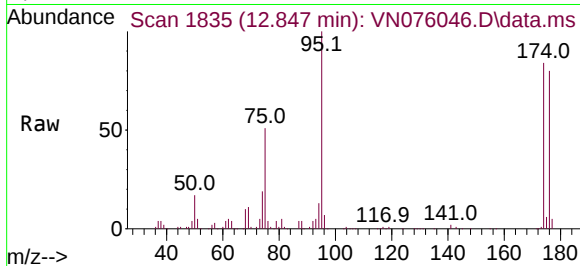




#62
4-Bromofluorobenzene
Concen: 47.720 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. -0.006 min
Lab File: VN076046.D
Acq: 29 Dec 2022 14:06

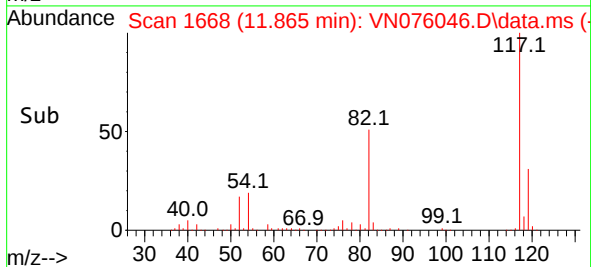
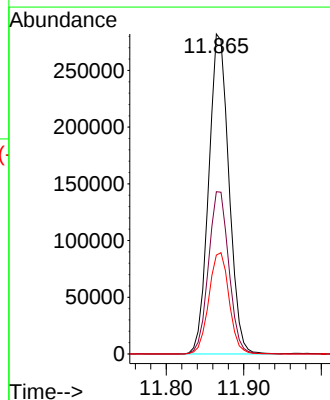
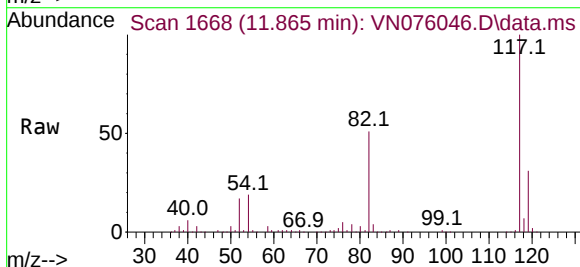
Instrument :
MSVOA_N
ClientSampleId :
TP-2

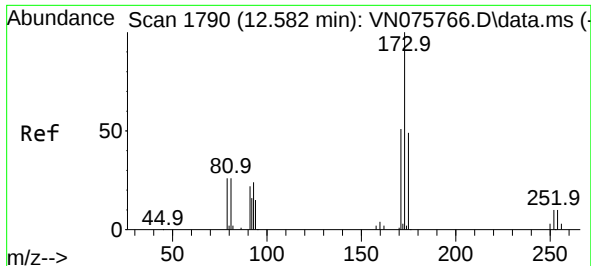
Tgt Ion: 95 Resp: 206917
Ion Ratio Lower Upper
95 100
174 88.4 0.0 171.6
176 84.0 0.0 169.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1668
Delta R.T. -0.000 min
Lab File: VN076046.D
Acq: 29 Dec 2022 14:06

Tgt Ion: 117 Resp: 511182
Ion Ratio Lower Upper
117 100
82 50.7 41.3 61.9
119 30.9 24.6 37.0

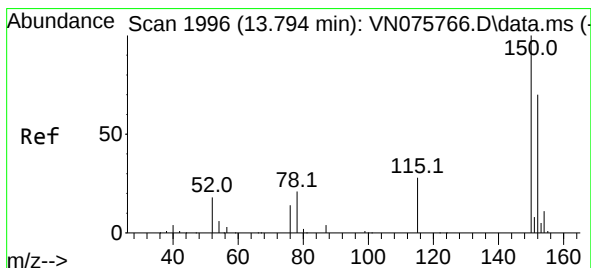
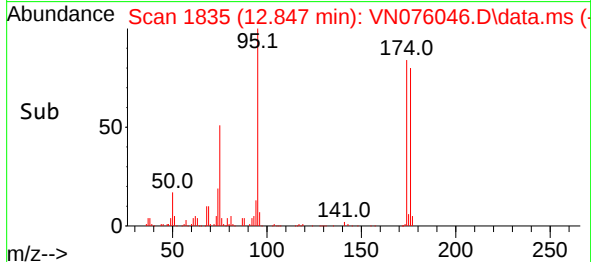
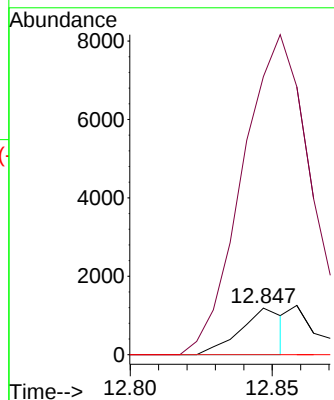
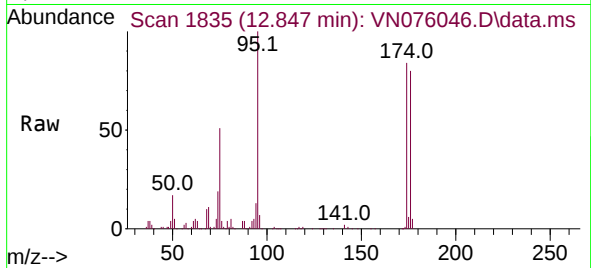




#71
Bromoform
Concen: 0.442 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. 0.265 min
Lab File: VN076046.D
Acq: 29 Dec 2022 14:06

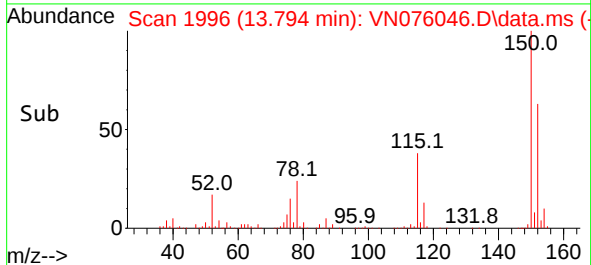
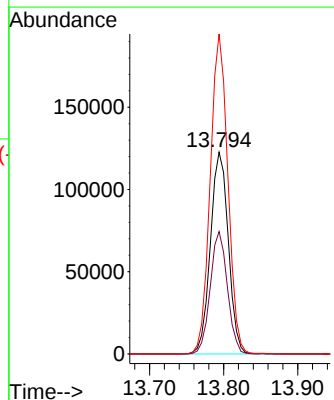
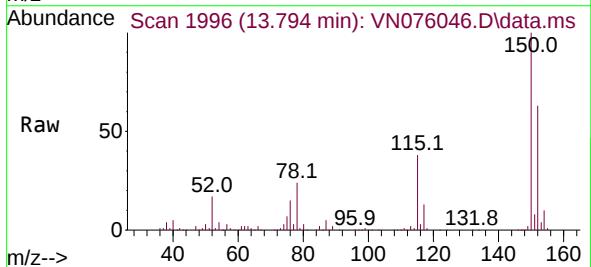
Instrument :
MSVOA_N
ClientSampleId :
TP-2

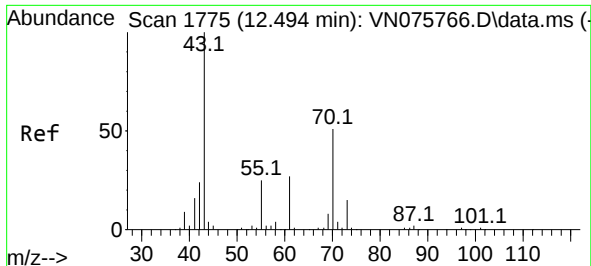
Tgt Ion:173 Resp: 1251
Ion Ratio Lower Upper
173 100
175 899.8 24.3 72.8#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1996
Delta R.T. -0.000 min
Lab File: VN076046.D
Acq: 29 Dec 2022 14:06

Tgt Ion:152 Resp: 205914
Ion Ratio Lower Upper
152 100
115 58.0 29.1 87.4
150 155.9 0.0 347.0

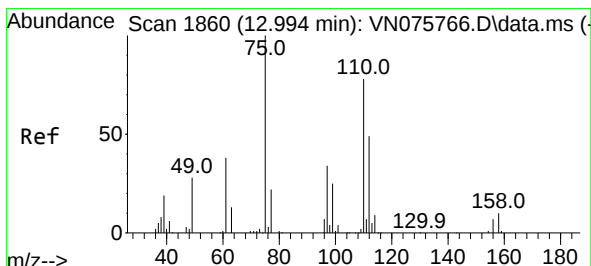
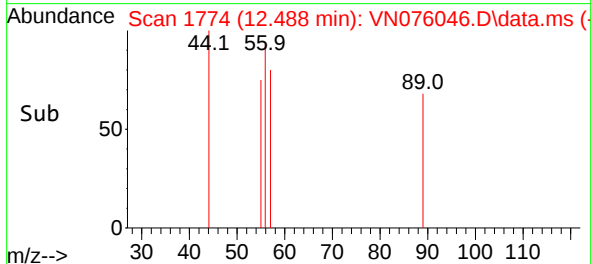
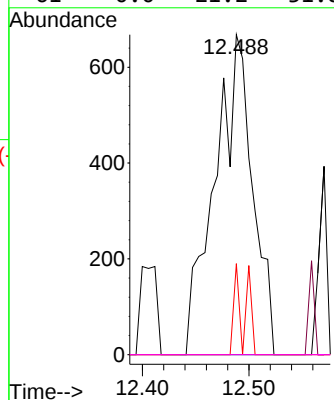
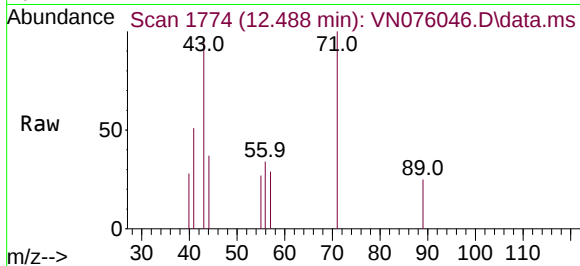




#74
N-amy1 acetate
Concen: 0.378 ug/l
RT: 12.488 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN076046.D
Acq: 29 Dec 2022 14:06

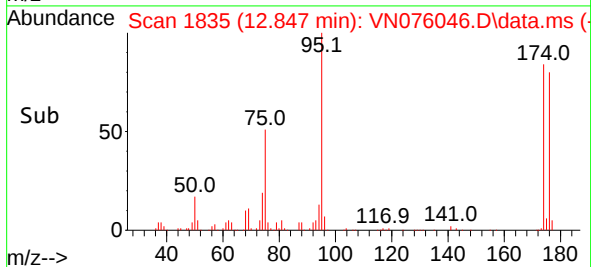
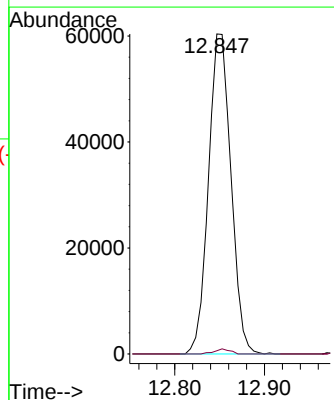
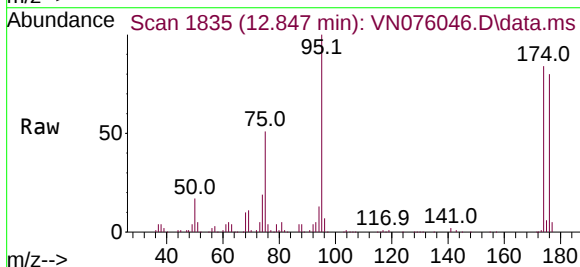
Instrument :
MSVOA_N
ClientSampleId :
TP-2

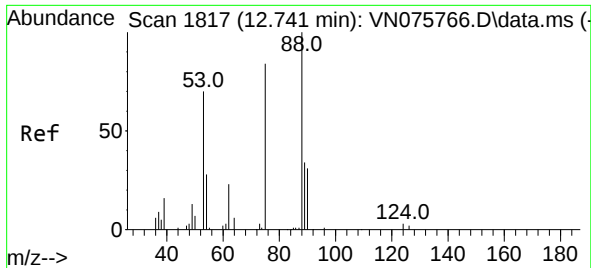
Tgt Ion: 43	Resp:	1651
Ion	Ratio	Lower Upper
43	100	
70	0.0	41.4 62.0#
55	8.1	21.3 31.9#
61	0.0	21.2 31.8#



#76
1,2,3-Trichloropropane
Concen: 25.359 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. -0.147 min
Lab File: VN076046.D
Acq: 29 Dec 2022 14:06

Tgt Ion: 75	Resp:	105260
Ion	Ratio	Lower Upper
75	100	
77	1.1	82.6 247.8#

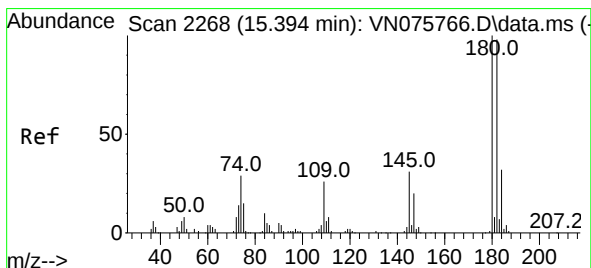
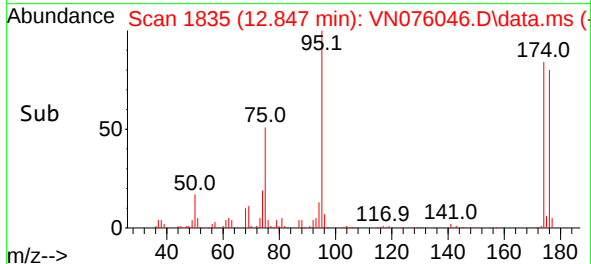
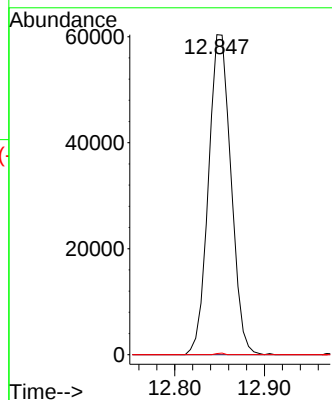
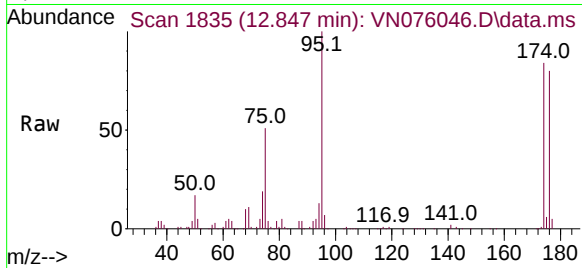




#81
trans-1,4-Dichloro-2-butene
Concen: 91.281 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. 0.106 min
Lab File: VN076046.D
Acq: 29 Dec 2022 14:06

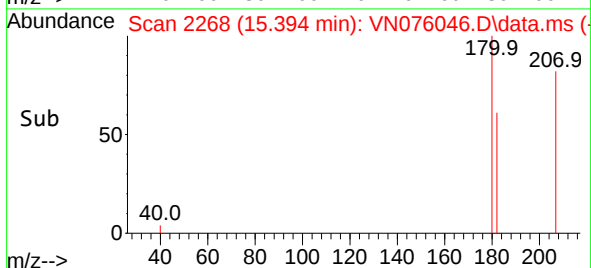
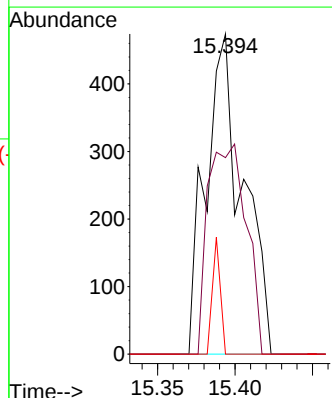
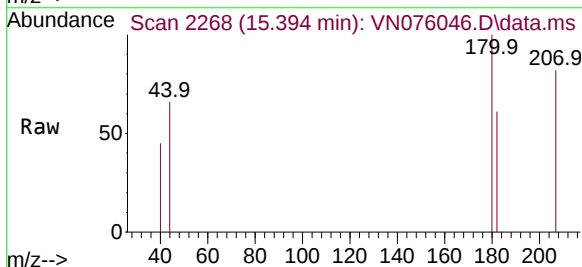
Instrument :
MSVOA_N
ClientSampleId :
TP-2

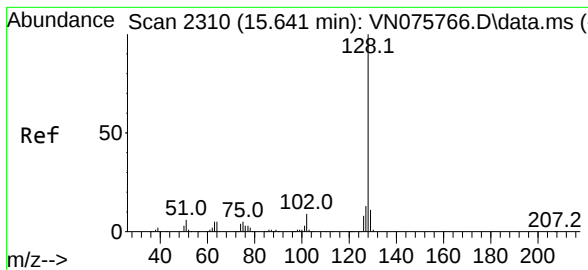
Tgt Ion: 75 Resp: 105260
Ion Ratio Lower Upper
75 100
53 0.0 73.8 110.6#
89 0.2 39.5 59.3#



#93
1,2,4-Trichlorobenzene
Concen: 0.232 ug/l
RT: 15.394 min Scan# 2268
Delta R.T. -0.000 min
Lab File: VN076046.D
Acq: 29 Dec 2022 14:06

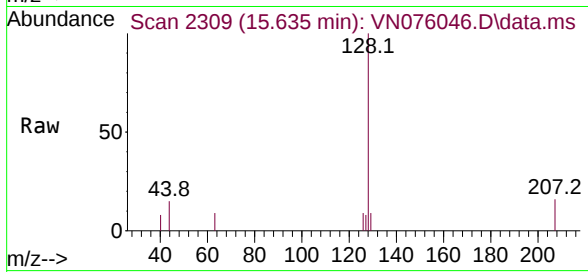
Tgt Ion:180 Resp: 788
Ion Ratio Lower Upper
180 100
182 67.9 47.5 142.5
145 7.7 15.3 45.8#





#95
Naphthalene
Concen: 2.524 ug/l
RT: 15.635 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN076046.D
Acq: 29 Dec 2022 14:06

Instrument :
MSVOA_N
ClientSampleId :
TP-2



Tgt Ion:128 Resp: 4064
Ion Ratio Lower Upper
128 100
127 8.2 10.4 15.6#
129 3.6 8.7 13.1#

