

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122322\
 Data File : VN075969.D
 Acq On : 23 Dec 2022 16:22
 Operator : JC\MD
 Sample : PB149839ZHE09
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB149839ZHE#09

Quant Time: Dec 26 04:34:58 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

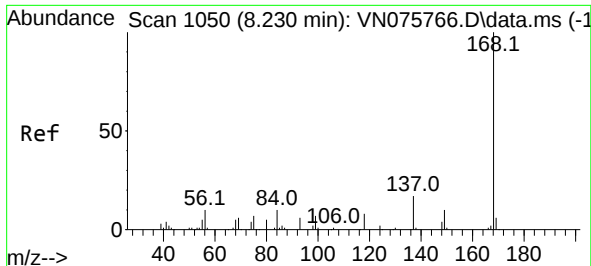
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.230	168	320927	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	529366	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	479003	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	200529	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	173176	49.601	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	99.200%
35) Dibromofluoromethane	8.177	113	155101	47.312	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	94.620%
50) Toluene-d8	10.571	98	625048	50.995	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	101.980%
62) 4-Bromofluorobenzene	12.853	95	196090	48.302	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	96.600%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.518	59	1528	3.093	ug/l #	72
16) Acetone	4.447	43	60047	49.892	ug/l	92
18) Methyl Acetate	5.053	43	3010	0.846	ug/l #	87
20) Methylene Chloride	5.289	84	11628	3.010	ug/l	94
25) 2-Butanone	7.500	43	19033	11.294	ug/l	96
29) Tetrahydrofuran	7.847	42	2107	1.995	ug/l #	65
31) Cyclohexane	8.235	56	5934	1.187	ug/l #	20
36) 1,1-Dichloropropene	8.235	75	23418	5.377	ug/l #	50
37) Ethyl Acetate	7.571	43	34081	9.743	ug/l	98
38) Carbon Tetrachloride	8.230	117	32430	6.654	ug/l #	17
41) Methacrylonitrile	7.853	41	1187	0.653	ug/l #	35
42) 1,2-Dichloroethane	8.682	62	1728	0.387	ug/l #	72
43) Isopropyl Acetate	8.694	43	328802	56.982	ug/l #	72
45) 1,2-Dichloropropane	9.741	63	2125	0.650	ug/l #	43
48) Methyl methacrylate	9.671	41	4544	1.748	ug/l #	38
49) 1,4-Dioxane	9.735	88	170	2.661	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	18390	5.270	ug/l #	81
52) Toluene	10.635	92	3442	0.393	ug/l	98
53) t-1,3-Dichloropropene	10.735	75	1623	0.349	ug/l #	78
54) cis-1,3-Dichloropropene	10.359	75	70816	13.855	ug/l #	64
56) Ethyl methacrylate	10.988	69	1894	0.415	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	9129	1.620	ug/l #	42
59) 2-Hexanone	11.176	43	138133	54.279	ug/l #	20
71) Bromoform	12.853	173	1662	0.627	ug/l #	1
74) N-amyl acetate	12.488	43	1413	0.332	ug/l #	37
76) 1,2,3-Trichloropropane	12.853	75	101566	25.127	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	101566	90.443	ug/l #	12
95) Naphthalene	15.647	128	646	2.234	ug/l #	69

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

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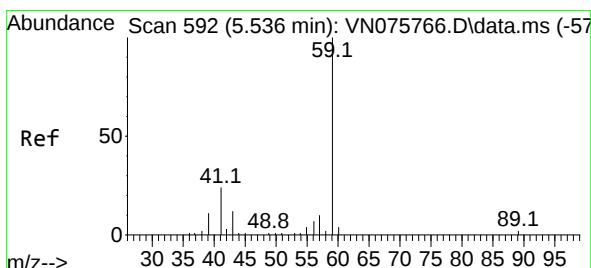
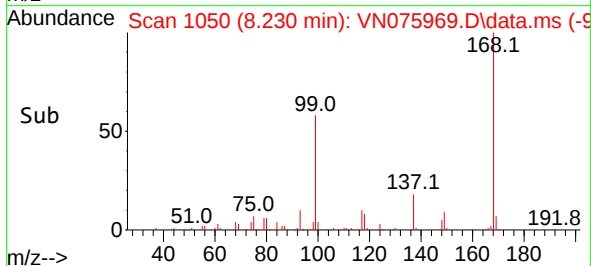
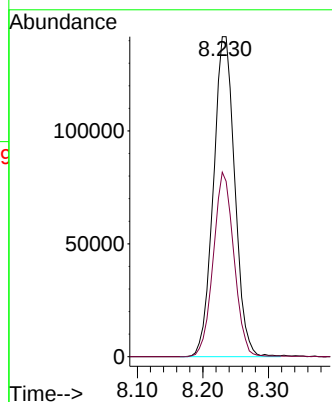
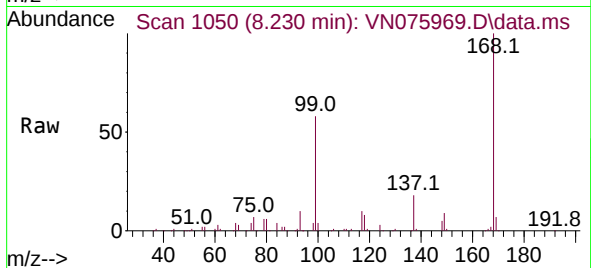




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.000 min
Lab File: VN075969.D
Acq: 23 Dec 2022 16:22

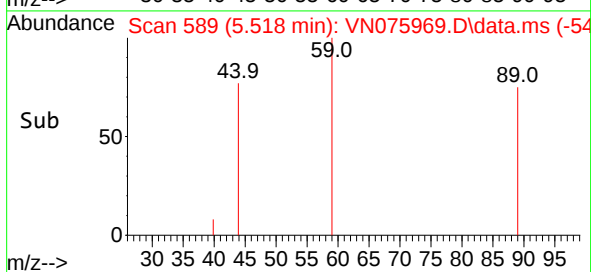
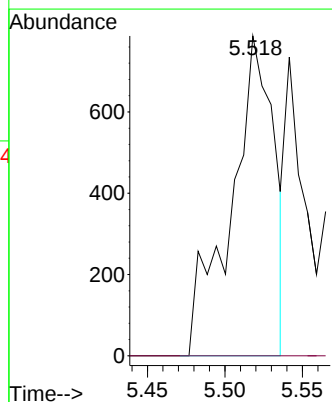
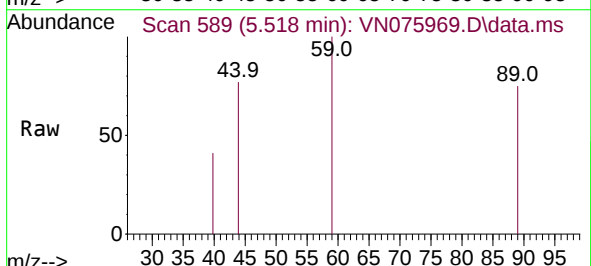
Instrument :
MSVOA_N
ClientSampleId :
PB149839ZHE#09

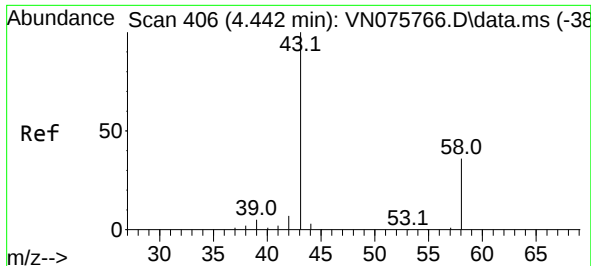
Tgt Ion:168 Resp: 320927
Ion Ratio Lower Upper
168 100
99 57.7 44.2 66.4



#11
Tert butyl alcohol
Concen: 3.093 ug/l
RT: 5.518 min Scan# 589
Delta R.T. -0.018 min
Lab File: VN075969.D
Acq: 23 Dec 2022 16:22

Tgt Ion: 59 Resp: 1528
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#16

Acetone

Concen: 49.892 ug/l

RT: 4.447 min Scan# 406

Delta R.T. 0.006 min

Lab File: VN075969.D

Acq: 23 Dec 2022 16:22

Instrument :

MSVOA_N

ClientSampleId :

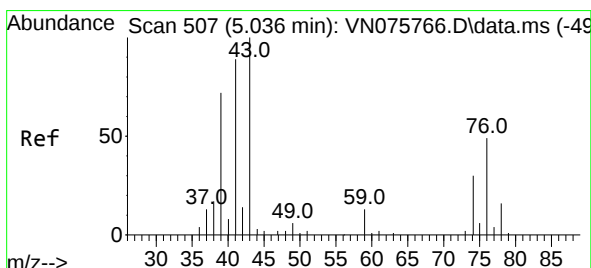
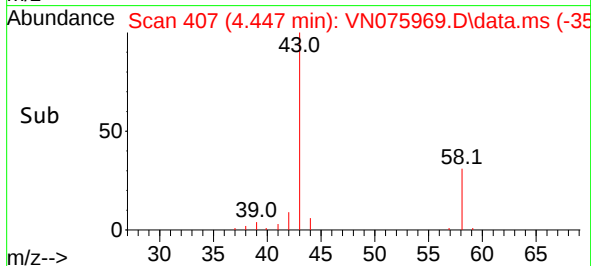
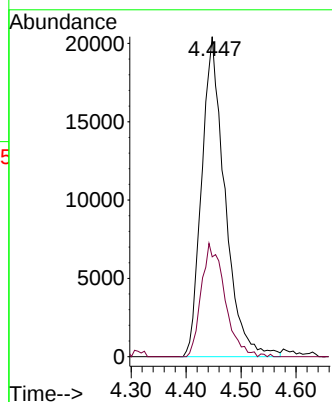
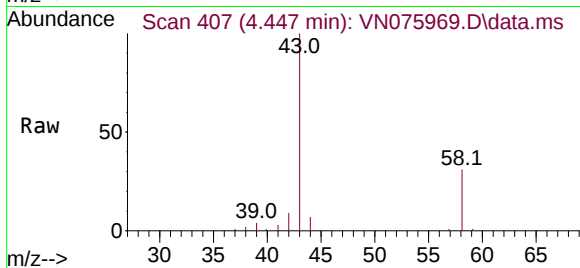
PB149839ZHE#09

Tgt Ion: 43 Resp: 60047

Ion Ratio Lower Upper

43 100

58 31.2 28.6 43.0



#18

Methyl Acetate

Concen: 0.846 ug/l

RT: 5.053 min Scan# 510

Delta R.T. 0.018 min

Lab File: VN075969.D

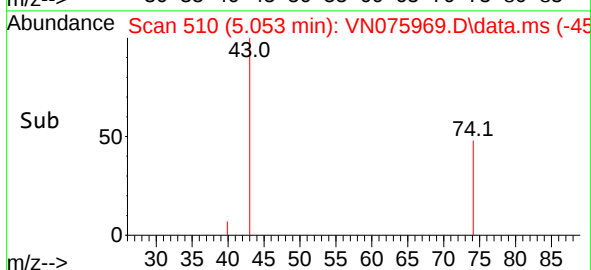
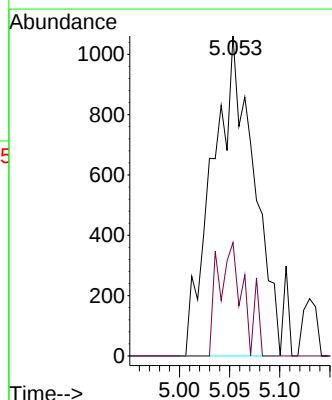
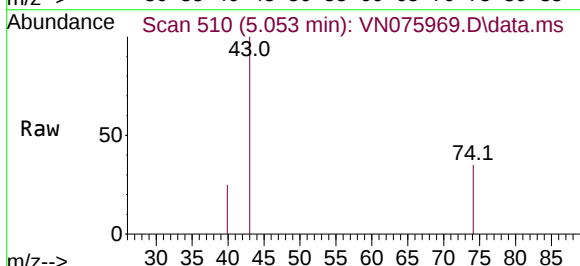
Acq: 23 Dec 2022 16:22

Tgt Ion: 43 Resp: 3010

Ion Ratio Lower Upper

43 100

74 22.5 23.6 35.4#

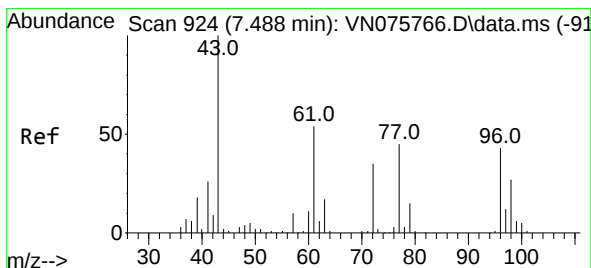
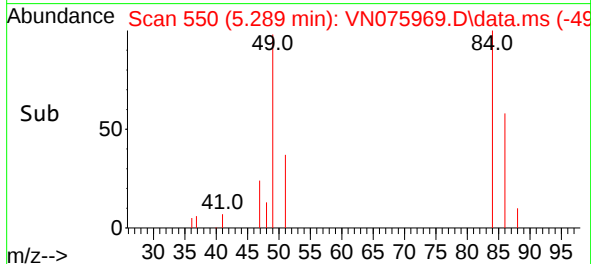
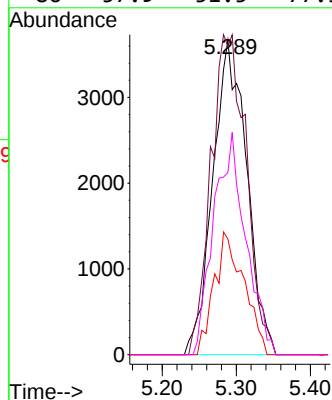
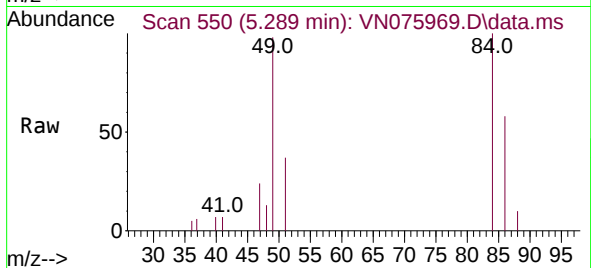




#20
Methylene Chloride
Concen: 3.010 ug/l
RT: 5.289 min Scan# 511
Delta R.T. -0.000 min
Lab File: VN075969.D
Acq: 23 Dec 2022 16:22

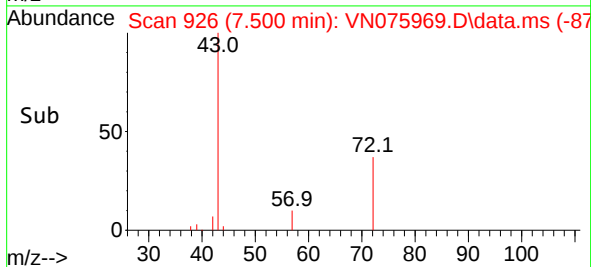
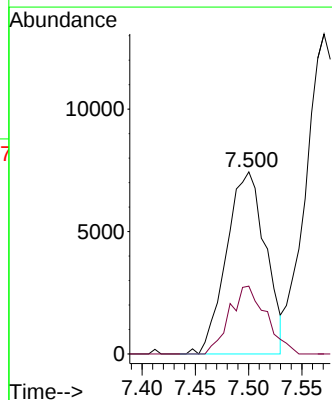
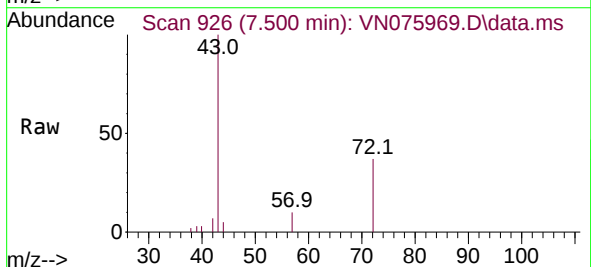
Instrument :
MSVOA_N
ClientSampleId :
PB149839ZHE#09

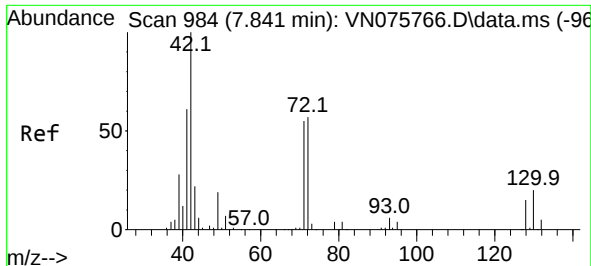
Tgt Ion: 84	Resp: 11628
Ion Ratio	Lower Upper
84 100	
49 98.0	81.8 122.6
51 36.8	26.7 40.1
86 57.9	51.5 77.3



#25
2-Butanone
Concen: 11.294 ug/l
RT: 7.500 min Scan# 926
Delta R.T. 0.012 min
Lab File: VN075969.D
Acq: 23 Dec 2022 16:22

Tgt Ion: 43	Resp: 19033
Ion Ratio	Lower Upper
43 100	
72 37.2	28.0 42.0





#29

Tetrahydrofuran

Concen: 1.995 ug/l

RT: 7.847 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN075969.D

Acq: 23 Dec 2022 16:22

Instrument :

MSVOA_N

ClientSampleId :

PB149839ZHE#09

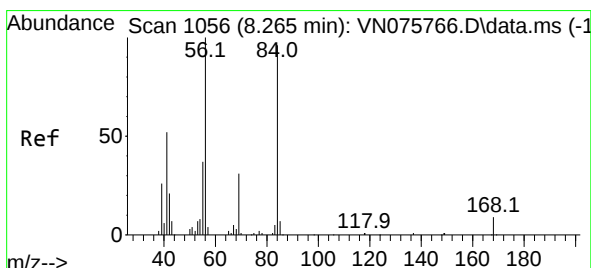
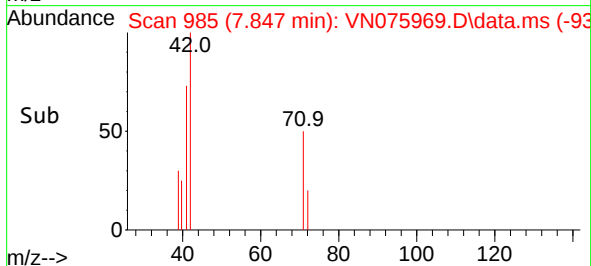
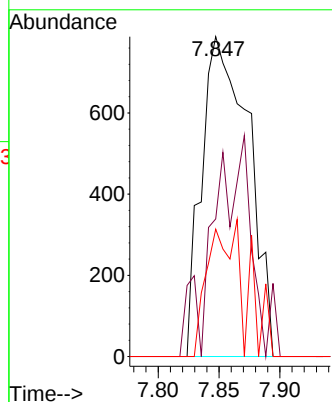
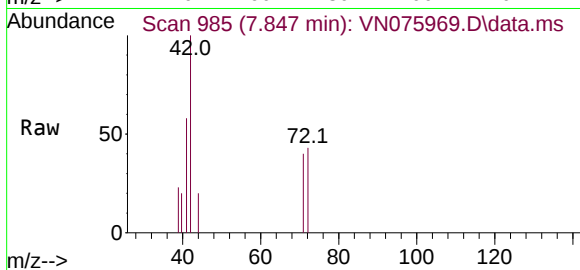
Tgt Ion: 42 Resp: 2107

Ion Ratio Lower Upper

42 100

72 31.0 44.5 66.7#

71 25.9 41.0 61.6#



#31

Cyclohexane

Concen: 1.187 ug/l

RT: 8.235 min Scan# 1051

Delta R.T. -0.029 min

Lab File: VN075969.D

Acq: 23 Dec 2022 16:22

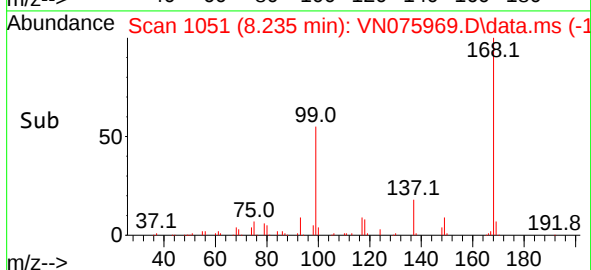
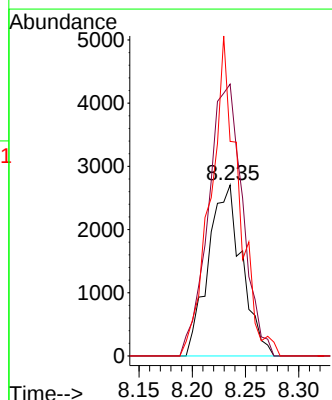
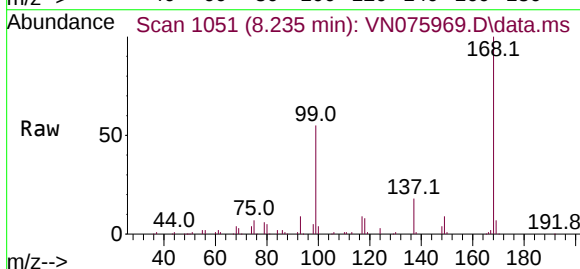
Tgt Ion: 56 Resp: 5934

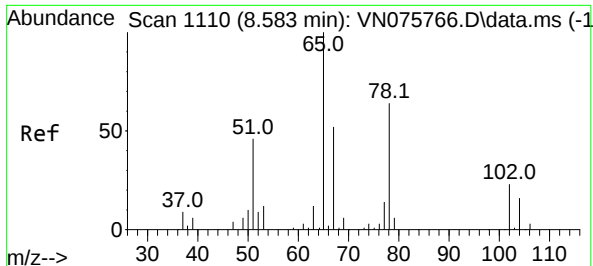
Ion Ratio Lower Upper

56 100

69 159.1 24.7 37.1#

84 125.6 76.5 114.7#





#33

1,2-Dichloroethane-d4

Concen: 49.601 ug/l

RT: 8.582 min Scan# 1110

Delta R.T. -0.000 min

Lab File: VN075969.D

Acq: 23 Dec 2022 16:22

Instrument :

MSVOA_N

ClientSampleId :

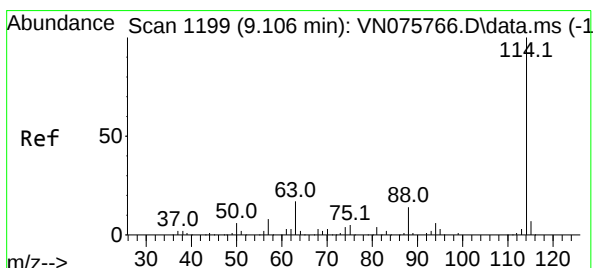
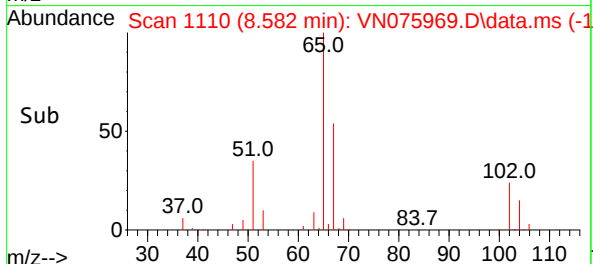
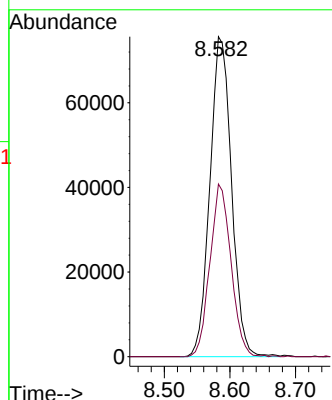
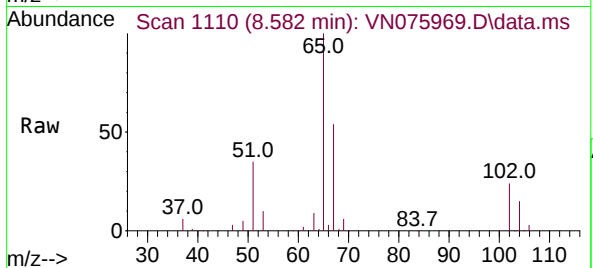
PB149839ZHE#09

Tgt Ion: 65 Resp: 173176

Ion Ratio Lower Upper

65 100

67 52.6 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: VN075969.D

Acq: 23 Dec 2022 16:22

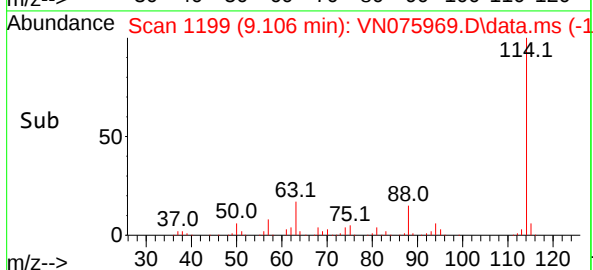
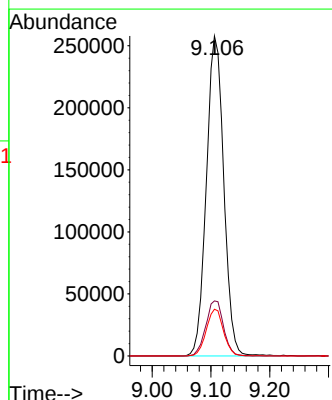
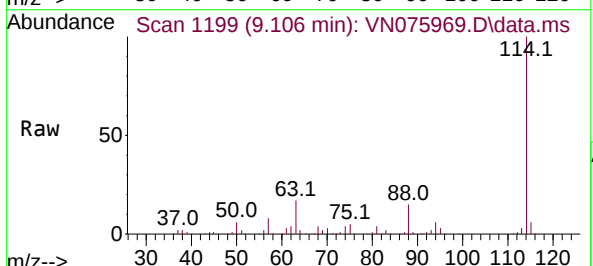
Tgt Ion: 114 Resp: 529366

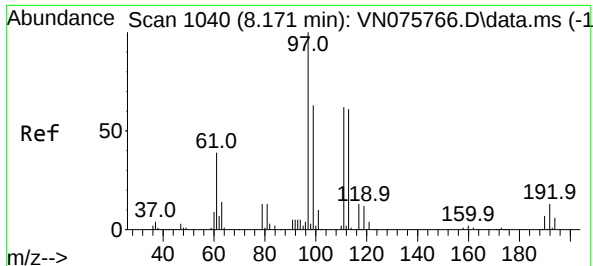
Ion Ratio Lower Upper

114 100

63 17.2 0.0 34.4

88 14.6 0.0 28.8

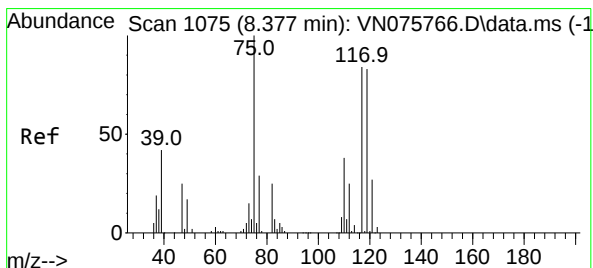
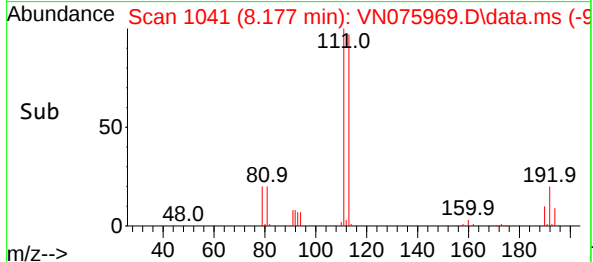
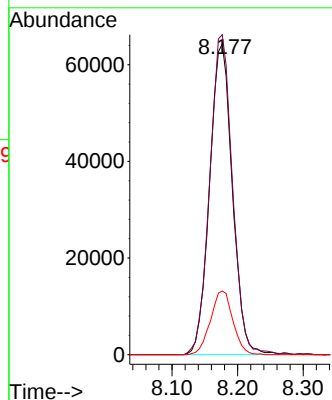
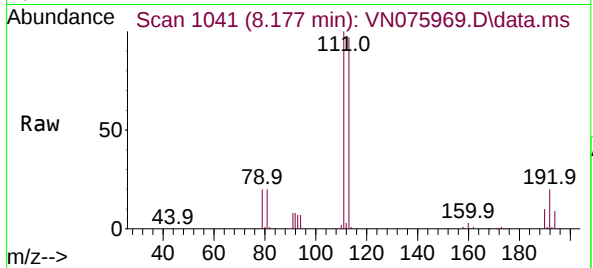




#35
Dibromofluoromethane
Concen: 47.312 ug/l
RT: 8.177 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VN075969.D
Acq: 23 Dec 2022 16:22

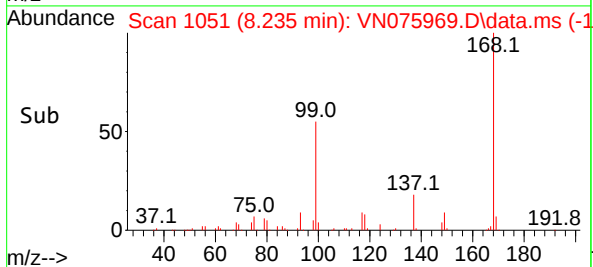
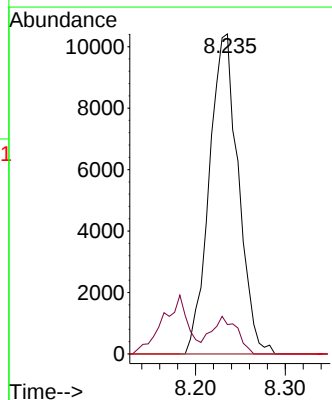
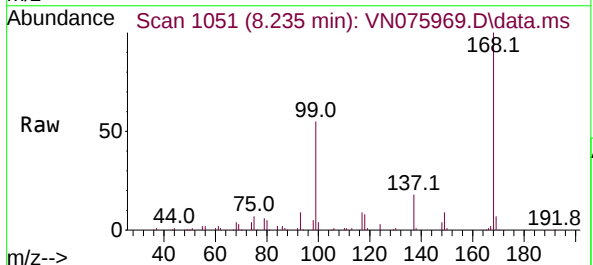
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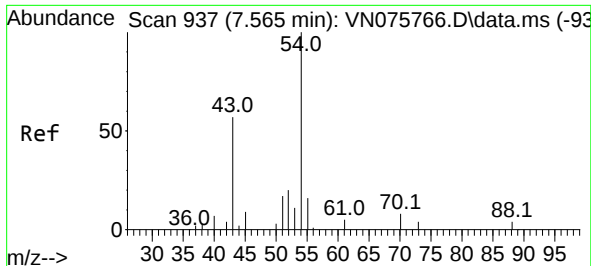
Tgt Ion:113 Resp: 155101
Ion Ratio Lower Upper
113 100
111 102.7 83.4 125.2
192 20.1 16.1 24.1



#36
1,1-Dichloropropene
Concen: 5.377 ug/l
RT: 8.235 min Scan# 1051
Delta R.T. -0.141 min
Lab File: VN075969.D
Acq: 23 Dec 2022 16:22

Tgt Ion: 75 Resp: 23418
Ion Ratio Lower Upper
75 100
110 10.3 18.8 56.4#
77 0.0 24.1 36.1#

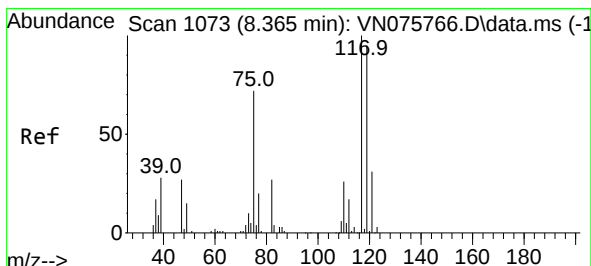
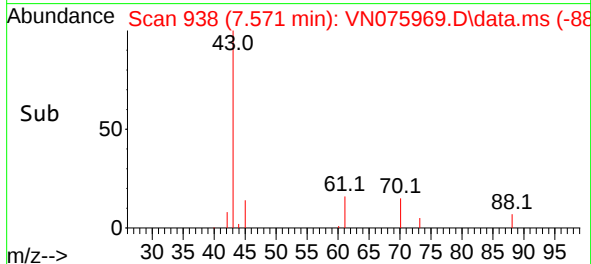
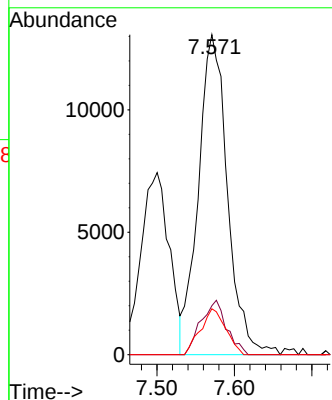
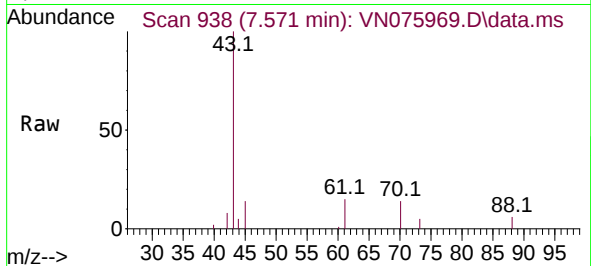




#37
Ethyl Acetate
Concen: 9.743 ug/l
RT: 7.571 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN075969.D
Acq: 23 Dec 2022 16:22

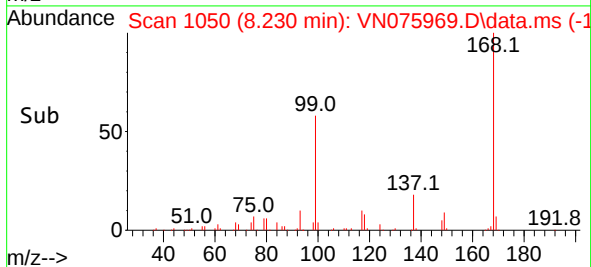
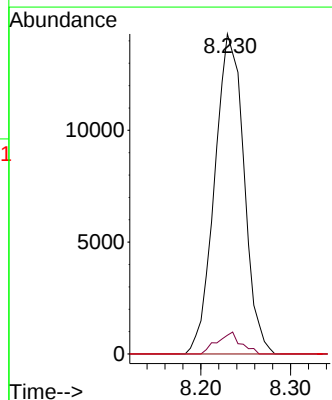
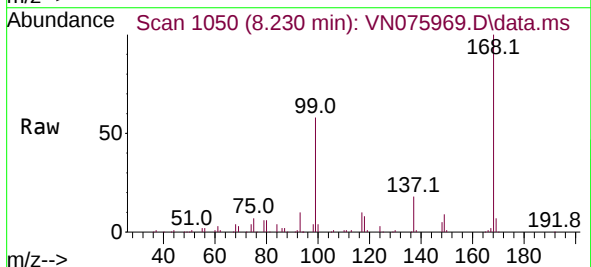
Instrument :
MSVOA_N
ClientSampleId :
PB149839ZHE#09

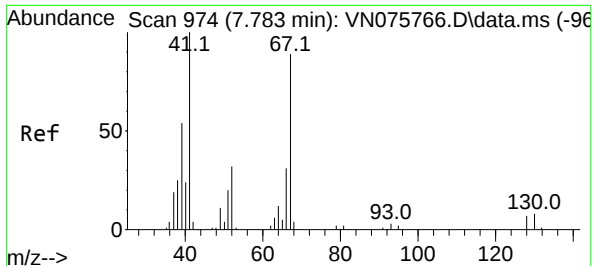
Tgt Ion: 43 Resp: 34081
Ion Ratio Lower Upper
43 100
61 15.0 13.0 19.4
70 12.5 9.4 14.0



#38
Carbon Tetrachloride
Concen: 6.654 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.135 min
Lab File: VN075969.D
Acq: 23 Dec 2022 16:22

Tgt Ion: 117 Resp: 32430
Ion Ratio Lower Upper
117 100
119 5.9 76.1 114.1#
121 0.0 24.5 36.7#

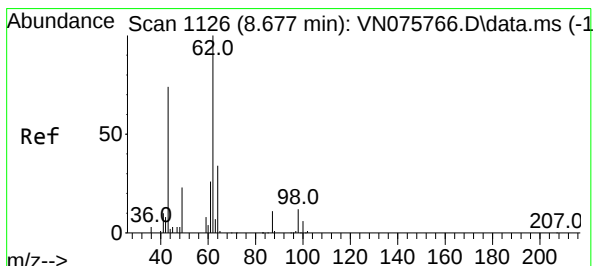
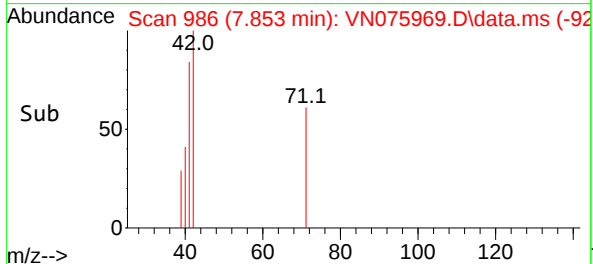
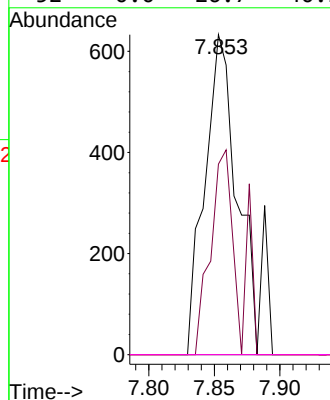
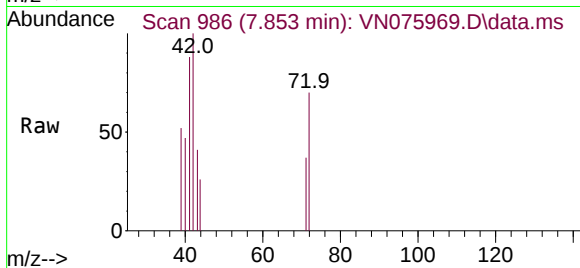




#41
Methacrylonitrile
Concen: 0.653 ug/l
RT: 7.853 min Scan# 91
Delta R.T. 0.071 min
Lab File: VN075969.D
Acq: 23 Dec 2022 16:22

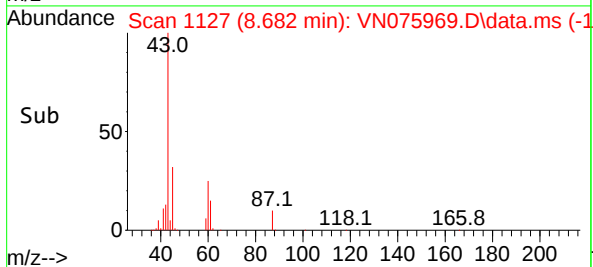
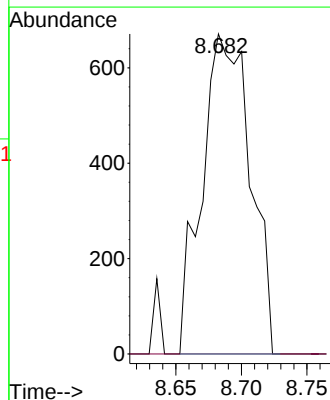
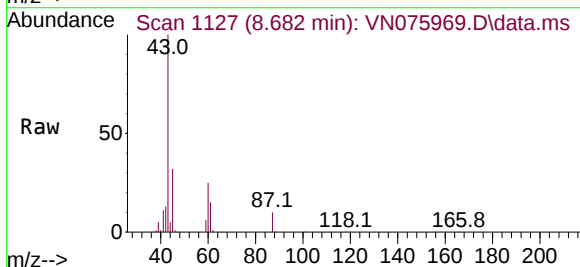
Instrument :
MSVOA_N
ClientSampleId :
PB149839ZHE#09

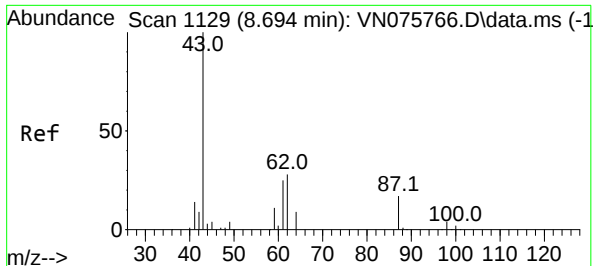
Tgt Ion:	41	Resp:	1187
Ion	Ratio	Lower	Upper
41	100		
39	39.4	43.1	64.7#
67	0.0	70.7	106.1#
52	0.0	26.7	40.1#



#42
1,2-Dichloroethane
Concen: 0.387 ug/l
RT: 8.682 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN075969.D
Acq: 23 Dec 2022 16:22

Tgt Ion:	62	Resp:	1728
Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	20.8





#43

Isopropyl Acetate

Concen: 56.982 ug/l

RT: 8.694 min Scan# 1129

Delta R.T. -0.000 min

Lab File: VN075969.D

Acq: 23 Dec 2022 16:22

Instrument :

MSVOA_N

ClientSampleId :

PB149839ZHE#09

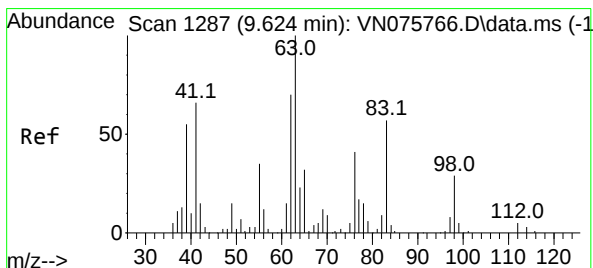
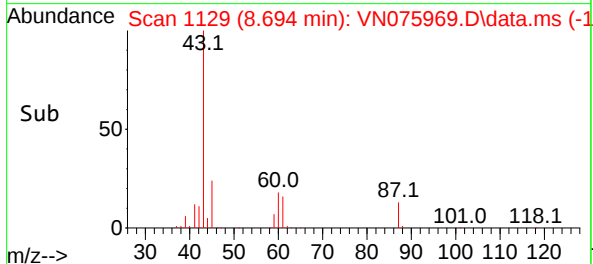
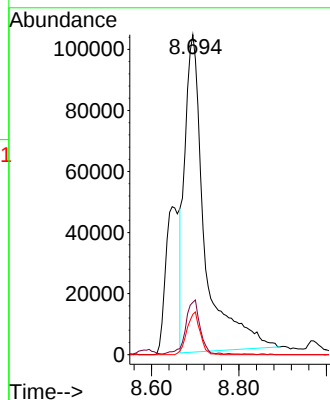
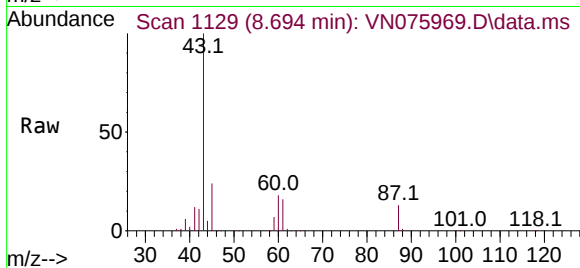
Tgt Ion: 43 Resp: 328802

Ion Ratio Lower Upper

43 100

61 12.1 24.2 36.4#

87 8.8 13.3 19.9#



#45

1,2-Dichloropropane

Concen: 0.650 ug/l

RT: 9.741 min Scan# 1307

Delta R.T. 0.118 min

Lab File: VN075969.D

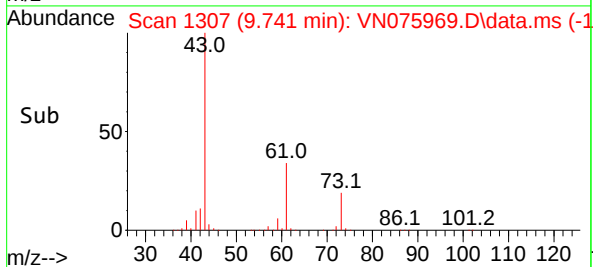
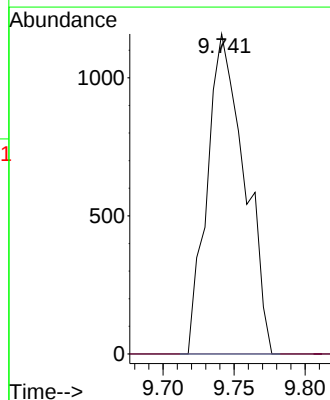
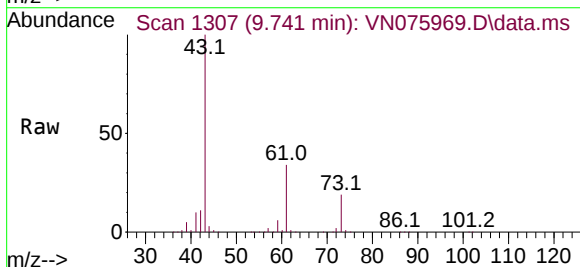
Acq: 23 Dec 2022 16:22

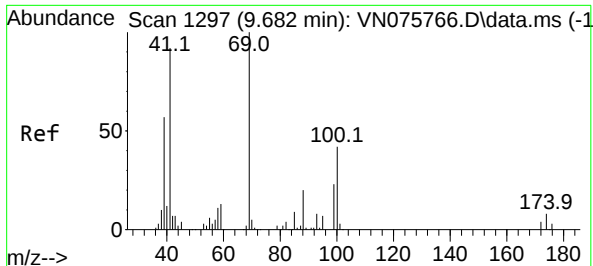
Tgt Ion: 63 Resp: 2125

Ion Ratio Lower Upper

63 100

65 0.0 25.7 38.5#





#48

Methyl methacrylate

Concen: 1.748 ug/l

RT: 9.671 min Scan# 1

Delta R.T. -0.012 min

Lab File: VN075969.D

Acq: 23 Dec 2022 16:22

Instrument :

MSVOA_N

ClientSampleId :

PB149839ZHE#09

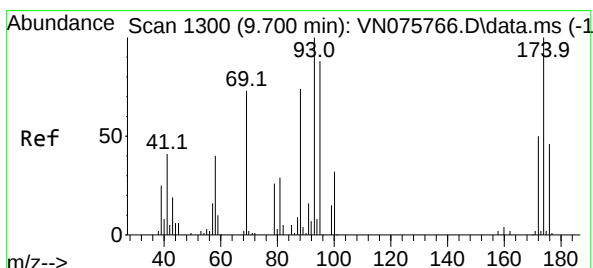
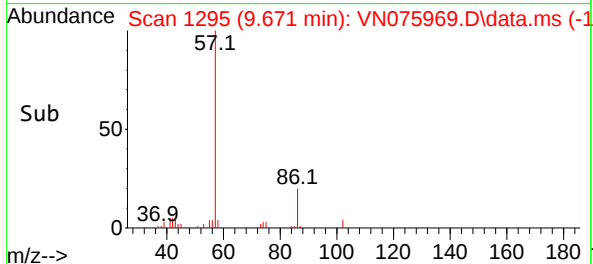
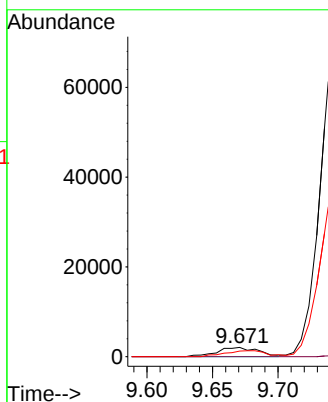
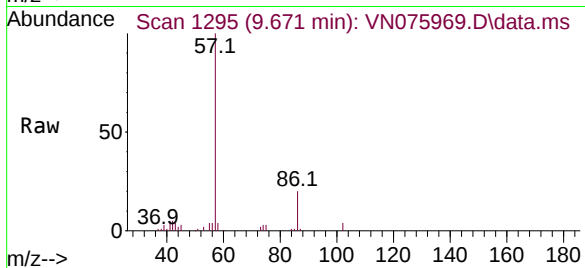
Tgt Ion: 41 Resp: 4544

Ion Ratio Lower Upper

41 100

69 0.0 81.9 122.9#

39 65.6 51.6 77.4



#49

1,4-Dioxane

Concen: 2.661 ug/l

RT: 9.735 min Scan# 1306

Delta R.T. 0.035 min

Lab File: VN075969.D

Acq: 23 Dec 2022 16:22

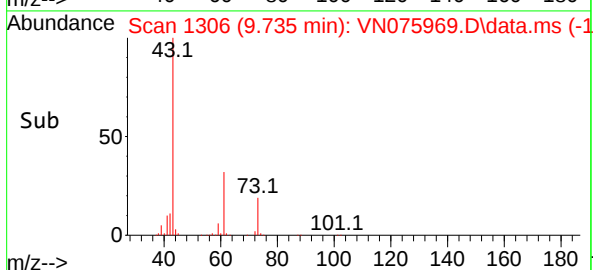
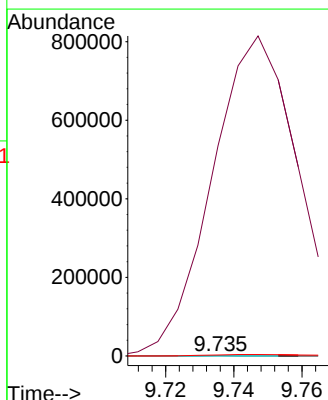
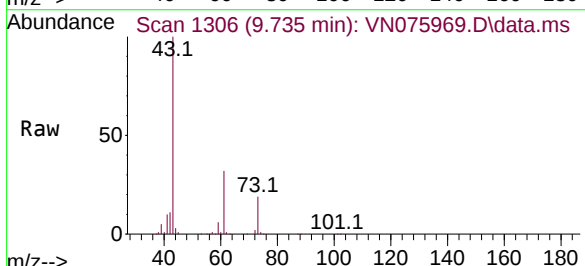
Tgt Ion: 88 Resp: 170

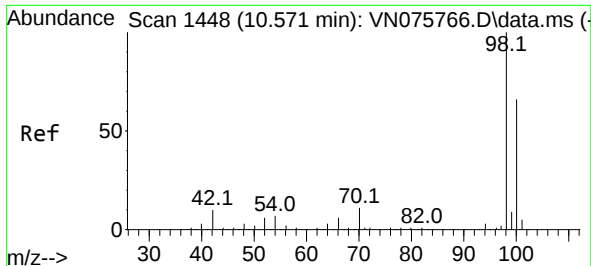
Ion Ratio Lower Upper

88 100

43 865489.4 17.1 25.7#

58 4330.6 47.8 71.8#

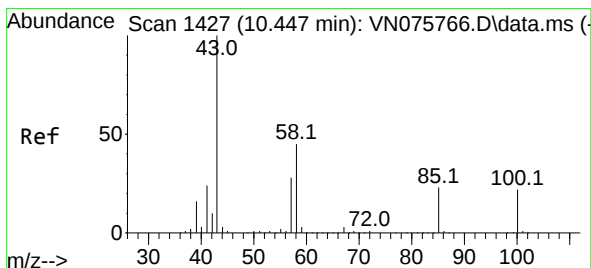
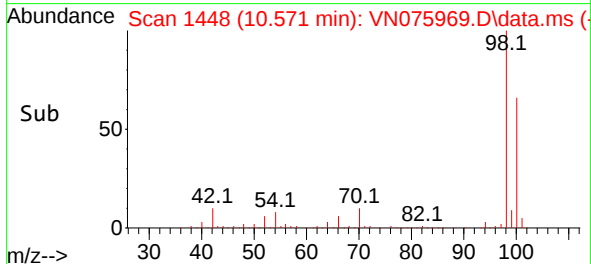
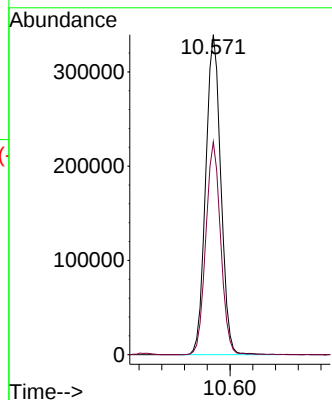
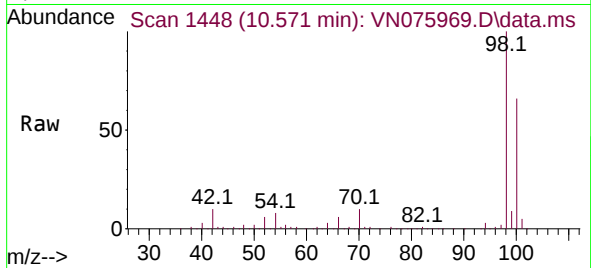




#50
Toluene-d8
Concen: 50.995 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. -0.000 min
Lab File: VN075969.D
Acq: 23 Dec 2022 16:22

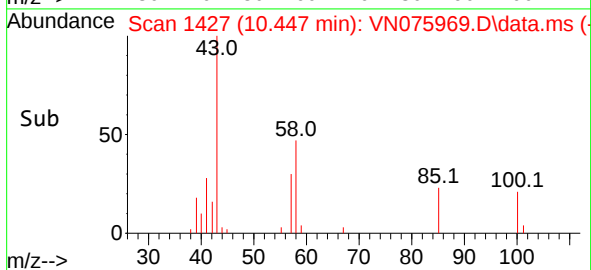
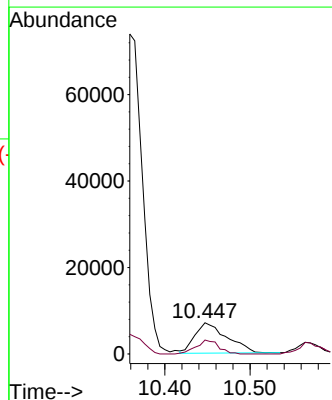
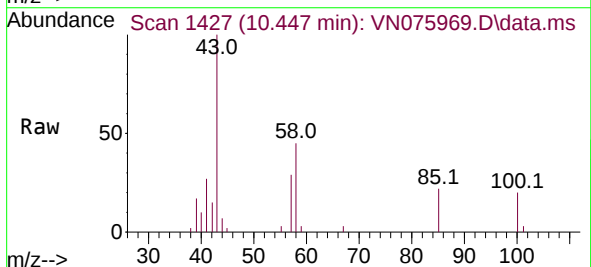
Instrument :
MSVOA_N
ClientSampleId :
PB149839ZHE#09

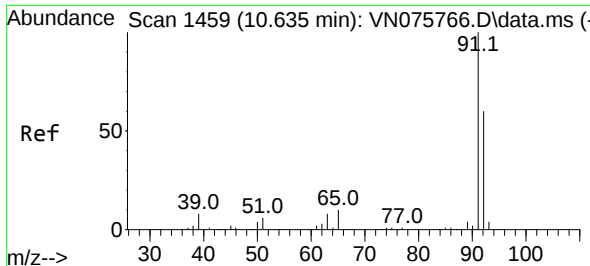
Tgt Ion: 98 Resp: 625048
Ion Ratio Lower Upper
98 100
100 65.4 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 5.270 ug/l
RT: 10.447 min Scan# 1427
Delta R.T. -0.000 min
Lab File: VN075969.D
Acq: 23 Dec 2022 16:22

Tgt Ion: 43 Resp: 18390
Ion Ratio Lower Upper
43 100
58 32.2 35.5 53.3#

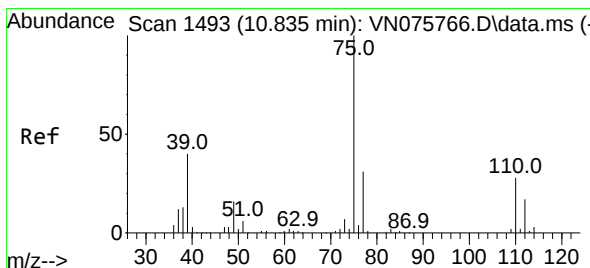
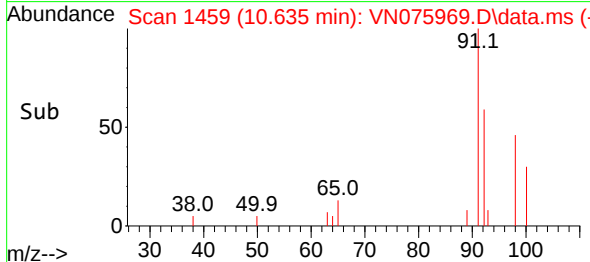
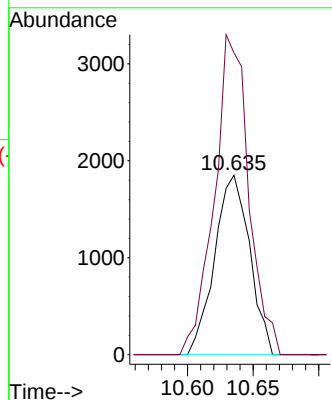
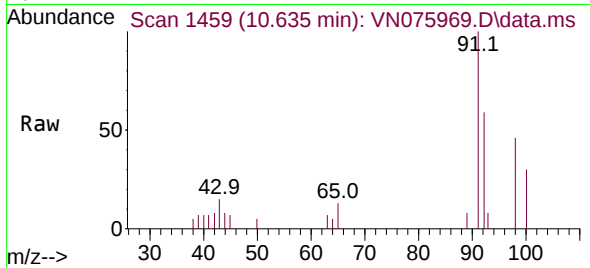




#52
Toluene
Concen: 0.393 ug/l
RT: 10.635 min Scan# 1459
Delta R.T. -0.000 min
Lab File: VN075969.D
Acq: 23 Dec 2022 16:22

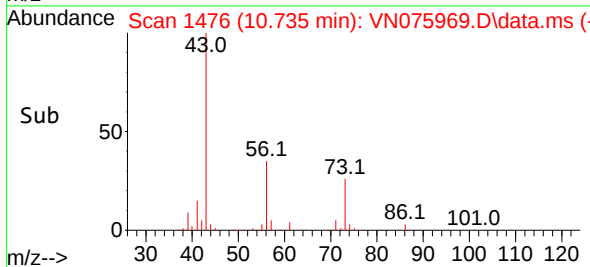
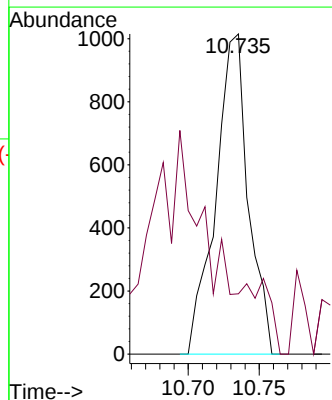
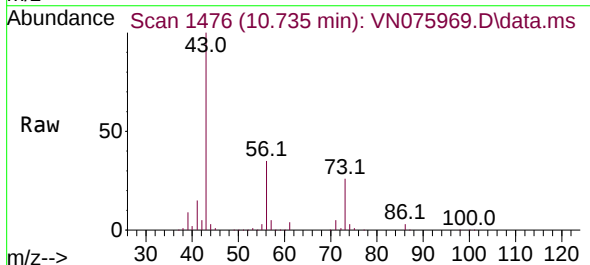
Instrument :
MSVOA_N
ClientSampleId :
PB149839ZHE#09

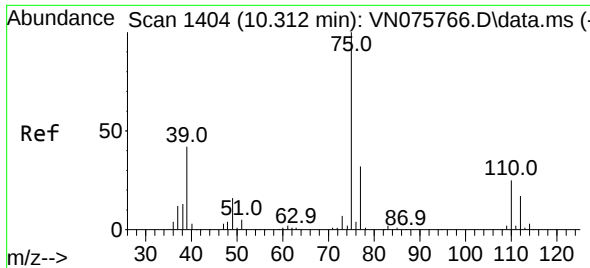
Tgt Ion: 92 Resp: 3442
Ion Ratio Lower Upper
92 100
91 175.0 137.3 205.9



#53
t-1,3-Dichloropropene
Concen: 0.349 ug/l
RT: 10.735 min Scan# 1476
Delta R.T. -0.100 min
Lab File: VN075969.D
Acq: 23 Dec 2022 16:22

Tgt Ion: 75 Resp: 1623
Ion Ratio Lower Upper
75 100
77 18.8 24.9 37.3#

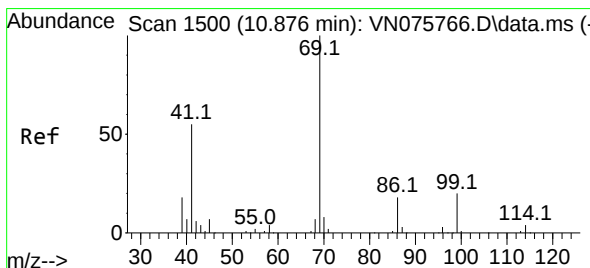
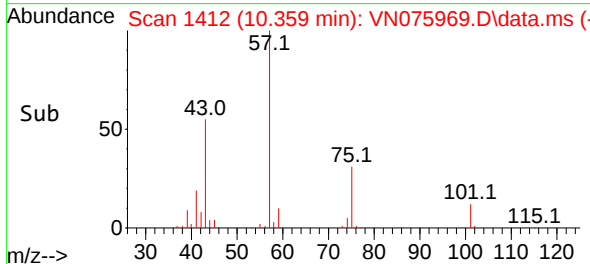
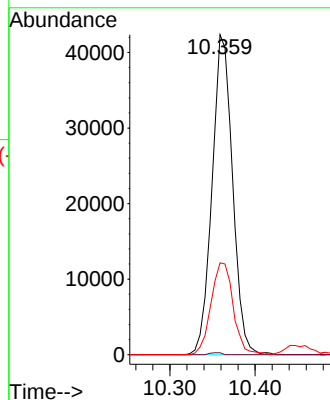
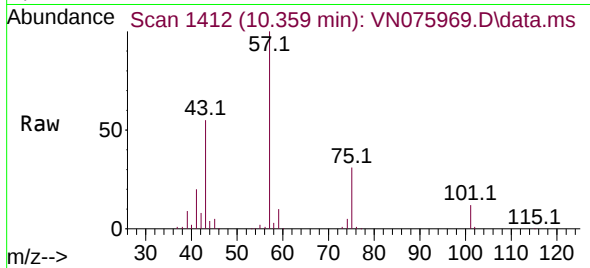




#54
 cis-1,3-Dichloropropene
 Concen: 13.855 ug/l
 RT: 10.359 min Scan# 1412
 Delta R.T. 0.047 min
 Lab File: VN075969.D
 Acq: 23 Dec 2022 16:22

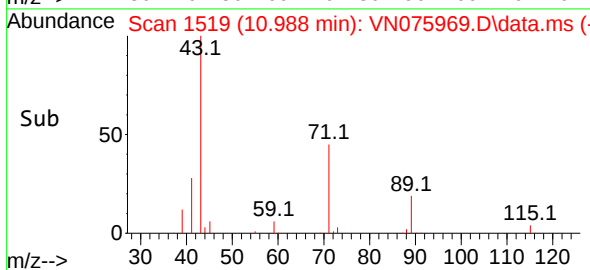
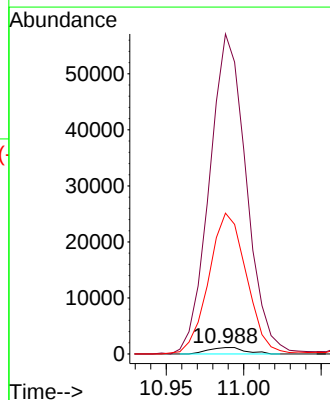
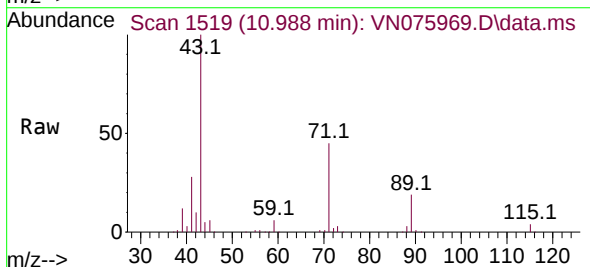
Instrument :
 MSVOA_N
 ClientSampleId :
 PB149839ZHE#09

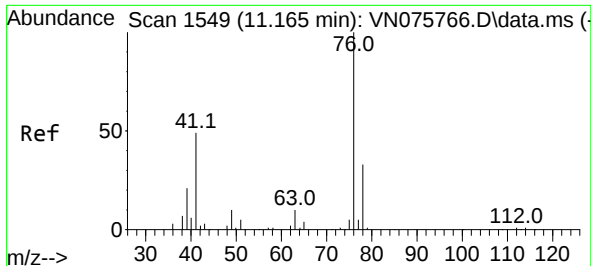
Tgt Ion: 75 Resp: 70816
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.8 38.8#
 39 28.7 33.4 50.2#



#56
 Ethyl methacrylate
 Concen: 0.415 ug/l
 RT: 10.988 min Scan# 1519
 Delta R.T. 0.112 min
 Lab File: VN075969.D
 Acq: 23 Dec 2022 16:22

Tgt Ion: 69 Resp: 1894
 Ion Ratio Lower Upper
 69 100
 41 5011.1 44.2 66.4#
 39 2257.8 26.4 39.6#





#57

1,3-Dichloropropane

Concen: 1.620 ug/l

RT: 11.206 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN075969.D

Acq: 23 Dec 2022 16:22

Instrument :

MSVOA_N

ClientSampleId :

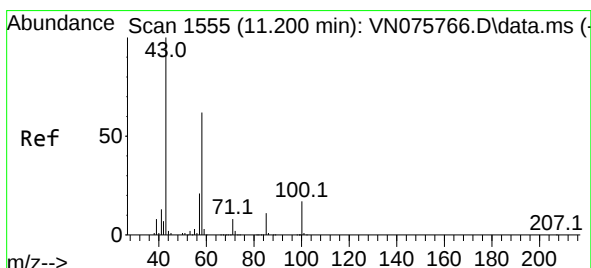
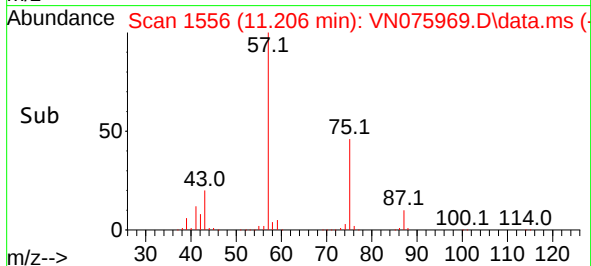
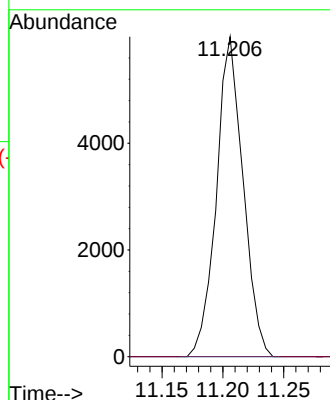
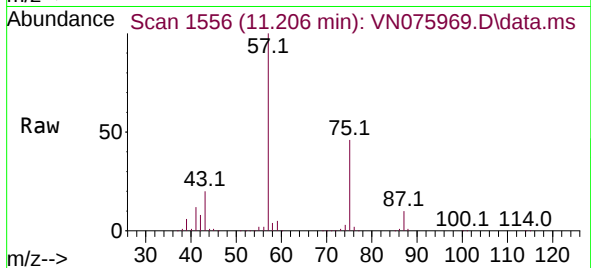
PB149839ZHE#09

Tgt Ion: 76 Resp: 9129

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.2#



#59

2-Hexanone

Concen: 54.279 ug/l

RT: 11.176 min Scan# 1551

Delta R.T. -0.024 min

Lab File: VN075969.D

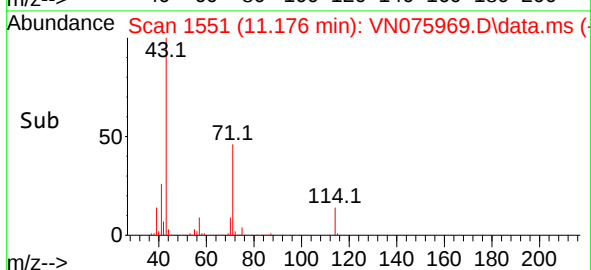
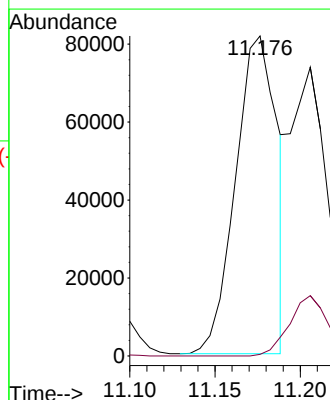
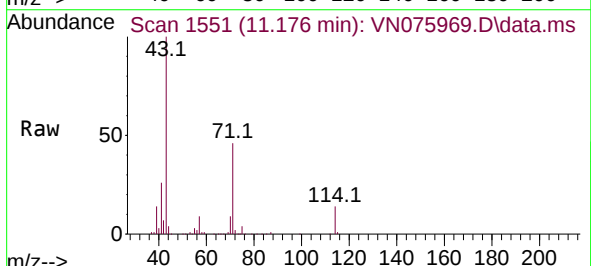
Acq: 23 Dec 2022 16:22

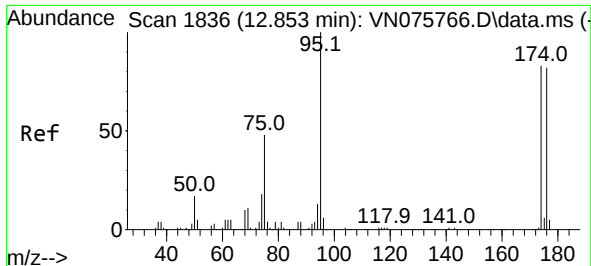
Tgt Ion: 43 Resp: 138133

Ion Ratio Lower Upper

43 100

58 0.0 30.6 92.0#

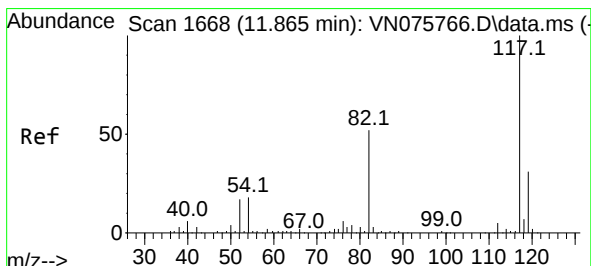
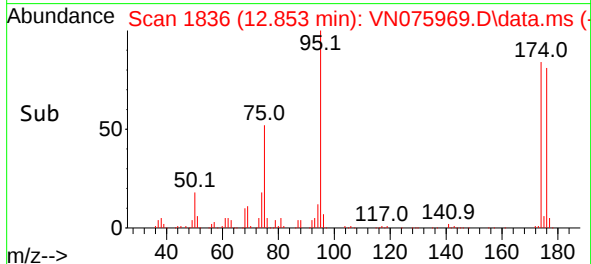
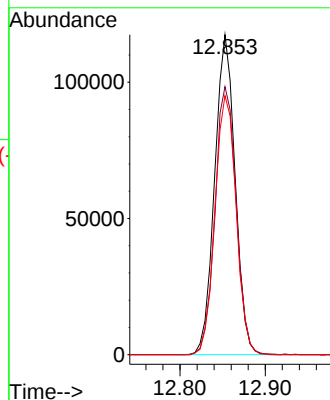
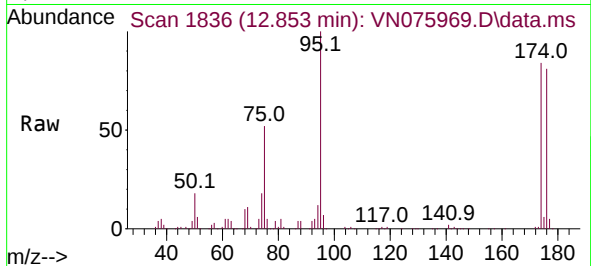




#62
4-Bromofluorobenzene
Concen: 48.302 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.000 min
Lab File: VN075969.D
Acq: 23 Dec 2022 16:22

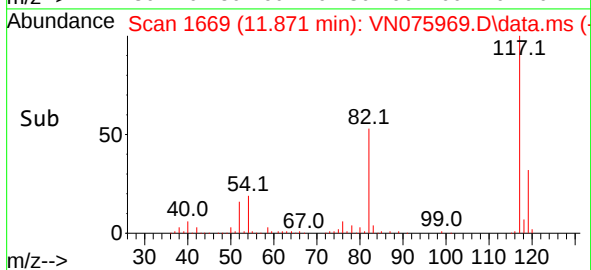
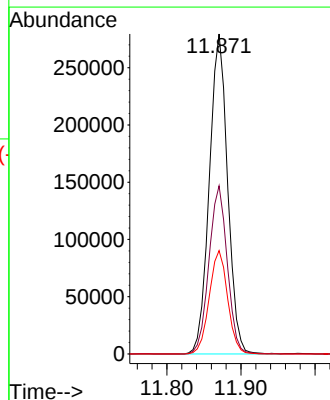
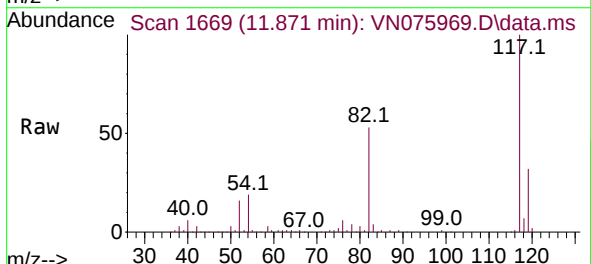
Instrument :
MSVOA_N
ClientSampleId :
PB149839ZHE#09

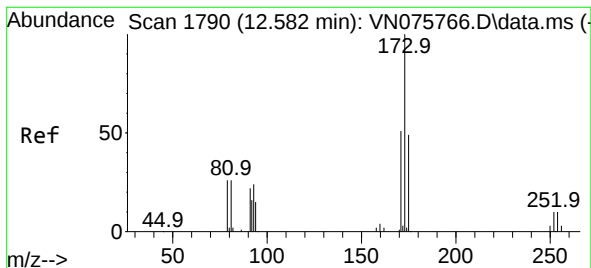
Tgt Ion: 95 Resp: 196090
Ion Ratio Lower Upper
95 100
174 86.1 0.0 171.6
176 83.7 0.0 169.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1669
Delta R.T. 0.006 min
Lab File: VN075969.D
Acq: 23 Dec 2022 16:22

Tgt Ion: 117 Resp: 479003
Ion Ratio Lower Upper
117 100
82 52.6 41.3 61.9
119 32.3 24.6 37.0





#71

Bromoform

Concen: 0.627 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. 0.271 min

Lab File: VN075969.D

Acq: 23 Dec 2022 16:22

Instrument :

MSVOA_N

ClientSampleId :

PB149839ZHE#09

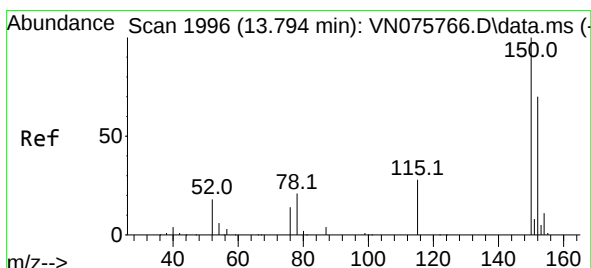
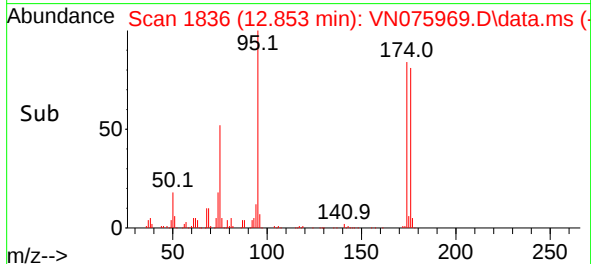
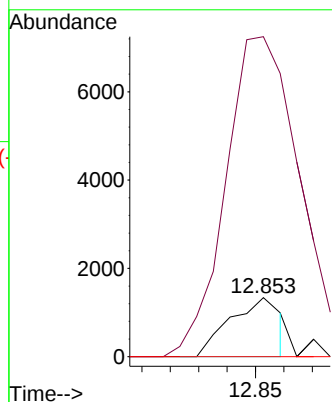
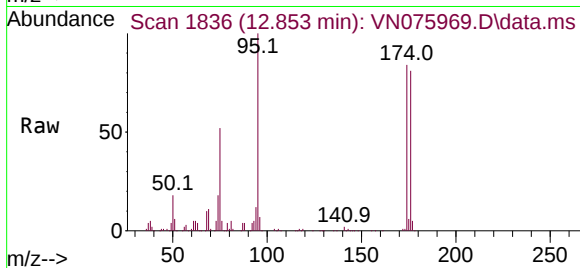
Tgt Ion:173 Resp: 1662

Ion Ratio Lower Upper

173 100

175 608.1 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: VN075969.D

Acq: 23 Dec 2022 16:22

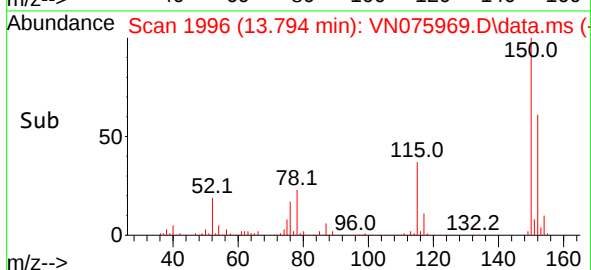
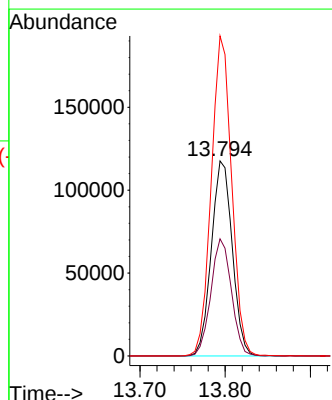
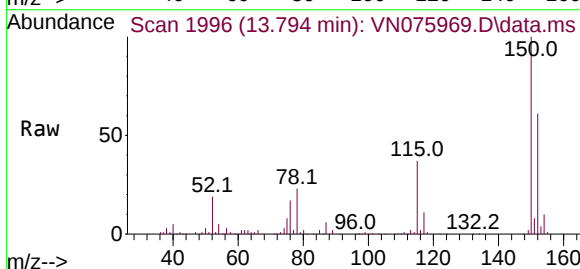
Tgt Ion:152 Resp: 200529

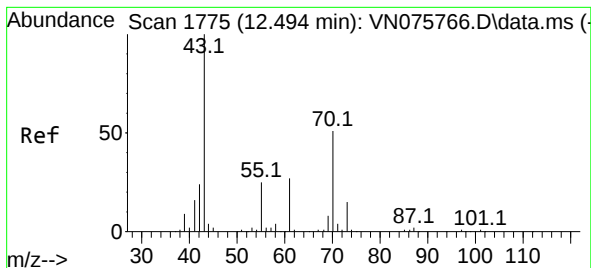
Ion Ratio Lower Upper

152 100

115 59.0 29.1 87.4

150 159.7 0.0 347.0





#74

N-amy1 acetate

Concen: 0.332 ug/l

RT: 12.488 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN075969.D

Acq: 23 Dec 2022 16:22

Instrument :

MSVOA_N

ClientSampleId :

PB149839ZHE#09

Tgt Ion: 43 Resp: 1413

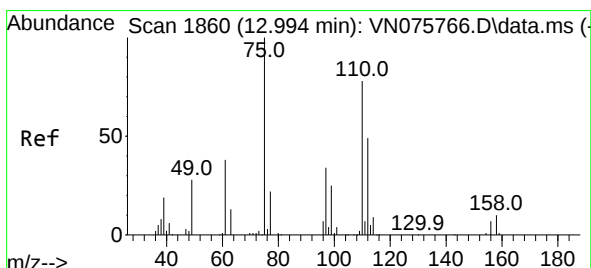
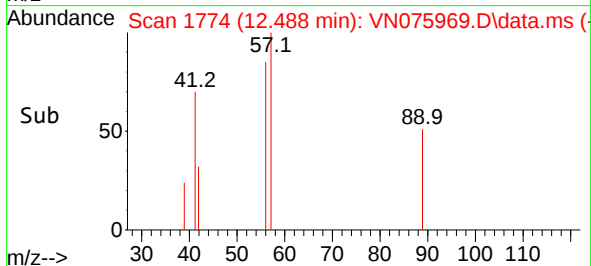
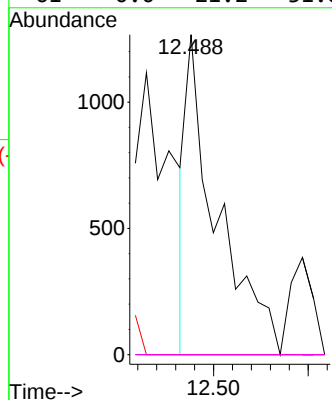
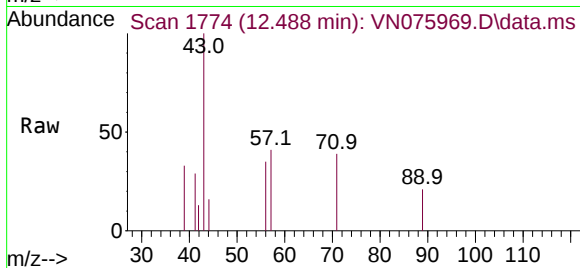
Ion Ratio Lower Upper

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: 25.127 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. -0.141 min

Lab File: VN075969.D

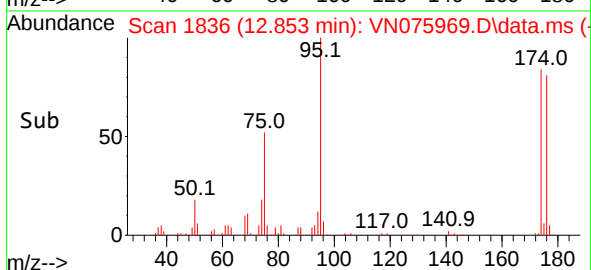
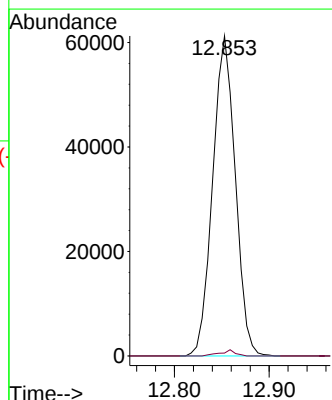
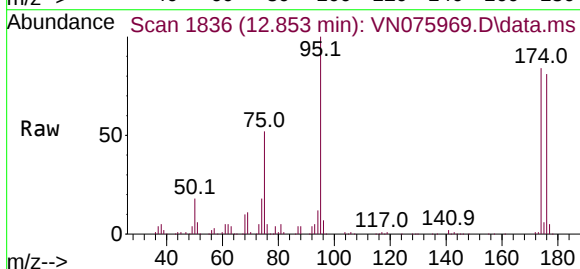
Acq: 23 Dec 2022 16:22

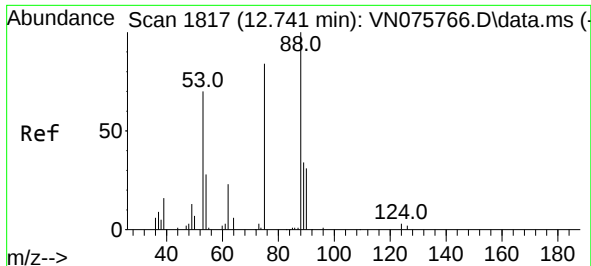
Tgt Ion: 75 Resp: 101566

Ion Ratio Lower Upper

75 100

77 1.3 82.6 247.8#

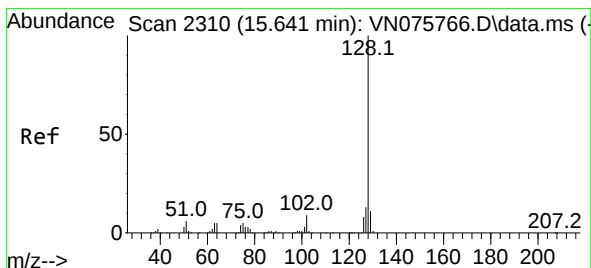
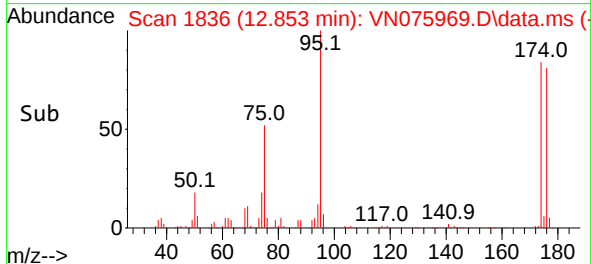
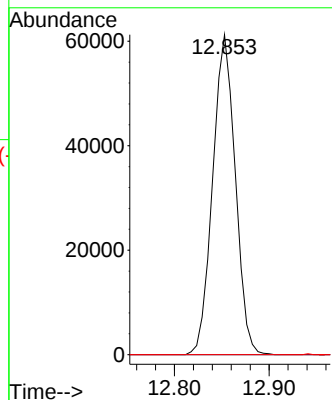
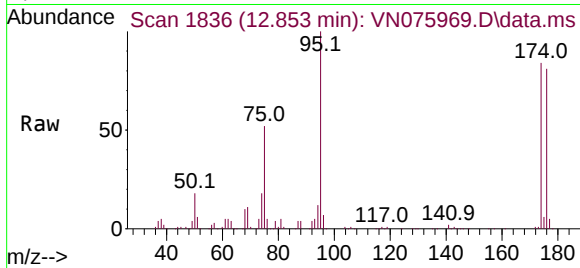




#81
trans-1,4-Dichloro-2-butene
Concen: 90.443 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.112 min
Lab File: VN075969.D
Acq: 23 Dec 2022 16:22

Instrument :
MSVOA_N
ClientSampleId :
PB149839ZHE#09

Tgt Ion: 75 Resp: 101566
Ion Ratio Lower Upper
75 100
53 0.0 73.8 110.6#
89 0.0 39.5 59.3#



#95
Naphthalene
Concen: 2.234 ug/l
RT: 15.647 min Scan# 2311
Delta R.T. 0.006 min
Lab File: VN075969.D
Acq: 23 Dec 2022 16:22

Tgt Ion:128 Resp: 646
Ion Ratio Lower Upper
128 100
127 0.0 10.4 15.6#
129 0.0 8.7 13.1#

