

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122322\
 Data File : VN075966.D
 Acq On : 23 Dec 2022 15:09
 Operator : JC\MD
 Sample : PB149839TB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB149839TB

Quant Time: Dec 26 04:33:54 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

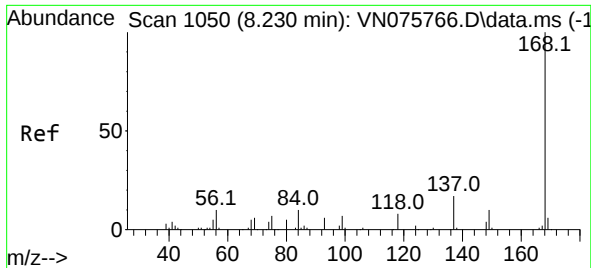
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.236	168	340063	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	552511	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	482039	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	196967	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	181250	48.992	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	97.980%		
35) Dibromofluoromethane	8.177	113	161399	47.170	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.340%		
50) Toluene-d8	10.571	98	646796	50.558	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	101.120%		
62) 4-Bromofluorobenzene	12.853	95	199539	47.092	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	94.180%		
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.548	59	991	1.893	ug/l #	72
16) Acetone	4.442	43	43614	34.199	ug/l	93
18) Methyl Acetate	5.059	43	2615	0.694	ug/l #	72
20) Methylene Chloride	5.295	84	16873	4.361	ug/l	93
25) 2-Butanone	7.500	43	11333	6.347	ug/l #	86
29) Tetrahydrofuran	7.847	42	809	0.723	ug/l #	81
31) Cyclohexane	8.224	56	6760	1.276	ug/l #	40
36) 1,1-Dichloropropene	8.236	75	25511	5.613	ug/l #	49
37) Ethyl Acetate	7.571	43	32937	9.021	ug/l	99
38) Carbon Tetrachloride	8.236	117	34066	6.696	ug/l #	15
41) Methacrylonitrile	7.859	41	658	0.347	ug/l #	29
42) 1,2-Dichloroethane	8.677	62	1414	0.303	ug/l #	72
43) Isopropyl Acetate	8.694	43	306289	50.857	ug/l #	72
45) 1,2-Dichloropropane	9.741	63	2169	0.636	ug/l #	43
48) Methyl methacrylate	9.665	41	4096	1.510	ug/l #	36
49) 1,4-Dioxane	9.753	88	280	4.199	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	16439	4.513	ug/l #	72
52) Toluene	10.635	92	2980	0.326	ug/l	98
53) t-1,3-Dichloropropene	10.735	75	1028	0.212	ug/l #	78
54) cis-1,3-Dichloropropene	10.365	75	67920	12.732	ug/l #	64
57) 1,3-Dichloropropane	11.206	76	9102	1.548	ug/l #	42
59) 2-Hexanone	11.177	43	147366	55.481	ug/l #	20
71) Bromoform	12.853	173	1815	0.681	ug/l #	1
74) N-amyl acetate	12.488	43	2303	0.552	ug/l #	39
76) 1,2,3-Trichloropropane	12.853	75	101958	25.680	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	101958	92.434	ug/l #	12
95) Naphthalene	15.653	128	1249	2.289	ug/l #	77

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

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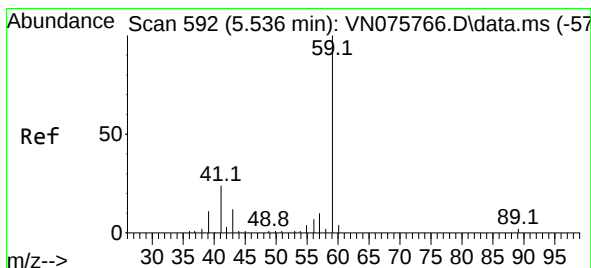
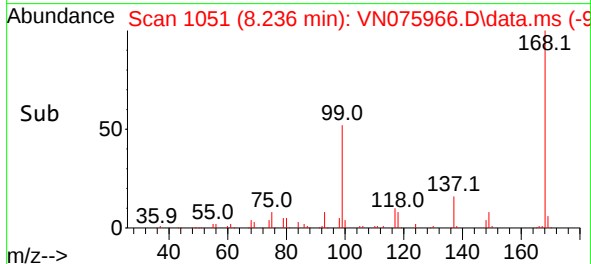
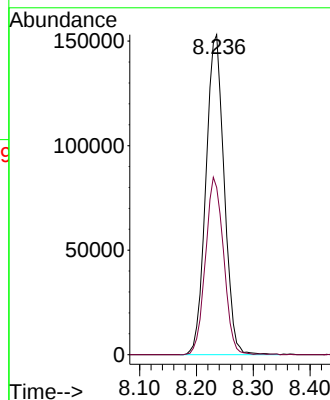
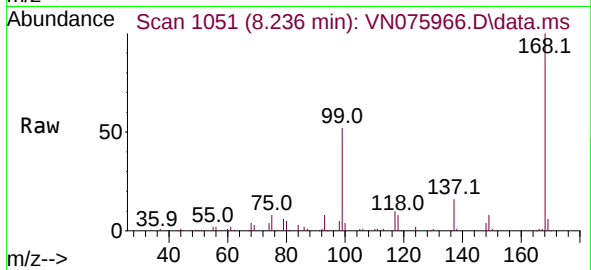




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 1051
Delta R.T. 0.006 min
Lab File: VN075966.D
Acq: 23 Dec 2022 15:09

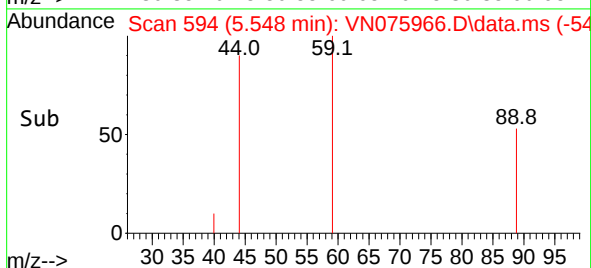
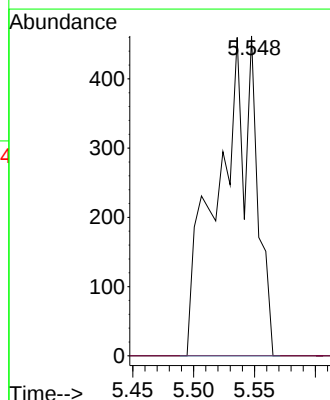
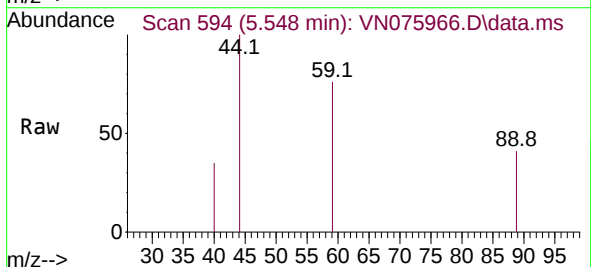
Instrument :
MSVOA_N
ClientSampleId :
PB149839TB

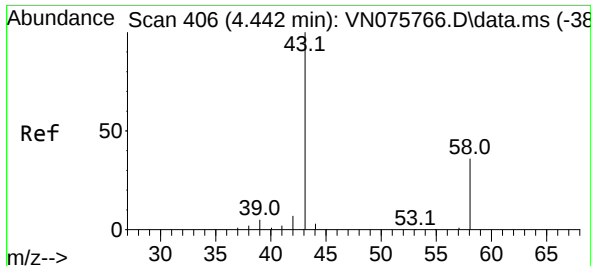
Tgt Ion:168 Resp: 340063
Ion Ratio Lower Upper
168 100
99 52.3 44.2 66.4



#11
Tert butyl alcohol
Concen: 1.893 ug/l
RT: 5.548 min Scan# 594
Delta R.T. 0.012 min
Lab File: VN075966.D
Acq: 23 Dec 2022 15:09

Tgt Ion: 59 Resp: 991
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#16

Acetone

Concen: 34.199 ug/l

RT: 4.442 min Scan# 406

Delta R.T. 0.000 min

Lab File: VN075966.D

Acq: 23 Dec 2022 15:09

Instrument :

MSVOA_N

ClientSampleId :

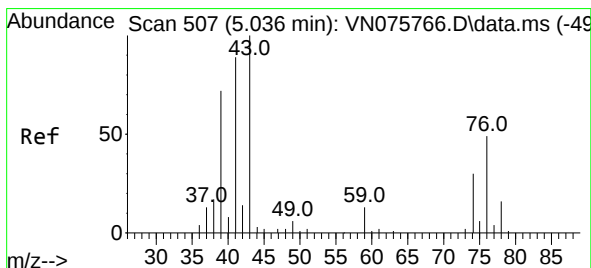
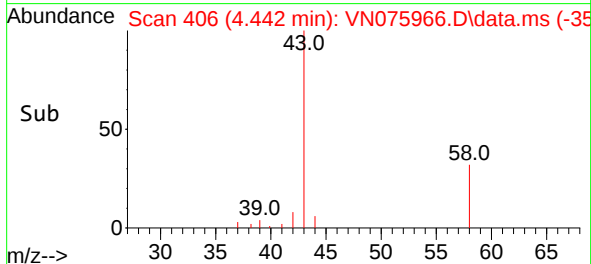
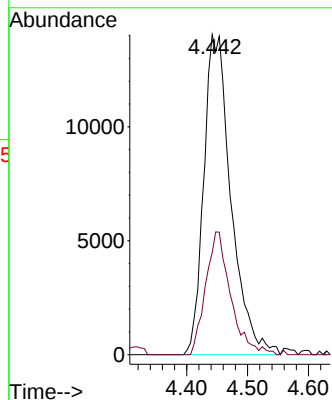
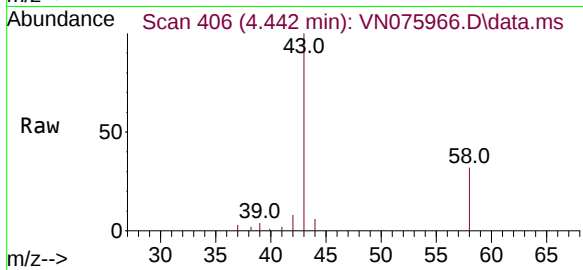
PB149839TB

Tgt Ion: 43 Resp: 43614

Ion Ratio Lower Upper

43 100

58 31.9 28.6 43.0



#18

Methyl Acetate

Concen: 0.694 ug/l

RT: 5.059 min Scan# 511

Delta R.T. 0.024 min

Lab File: VN075966.D

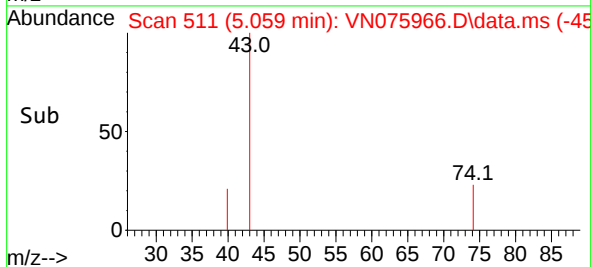
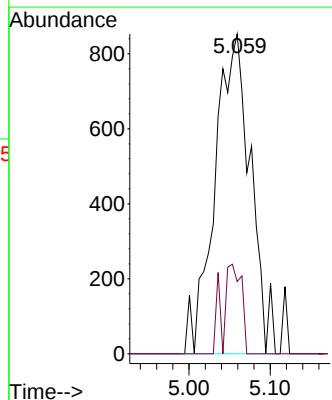
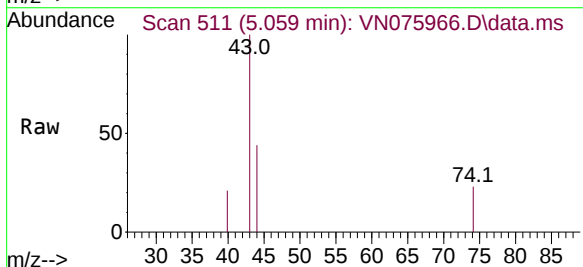
Acq: 23 Dec 2022 15:09

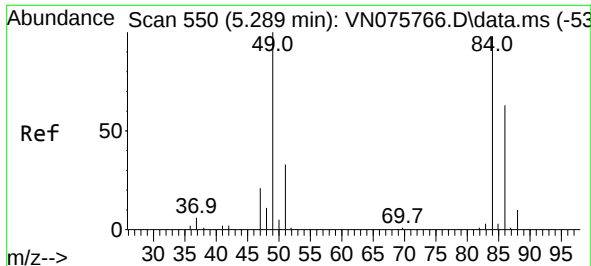
Tgt Ion: 43 Resp: 2615

Ion Ratio Lower Upper

43 100

74 14.7 23.6 35.4#

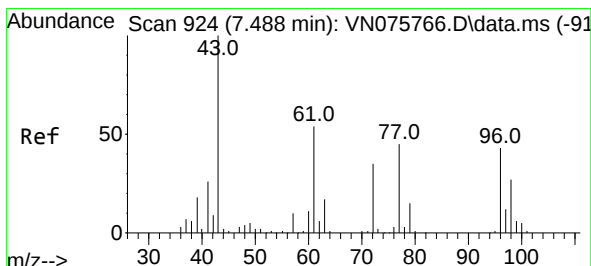
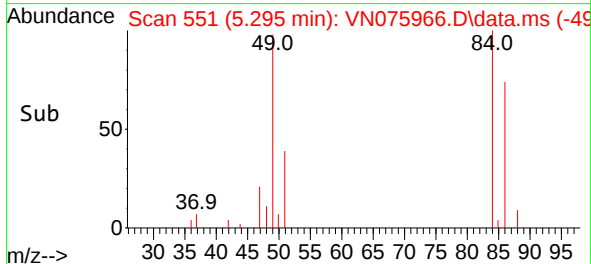
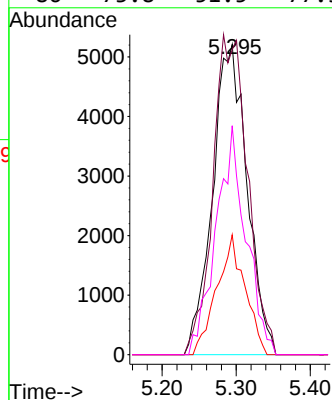
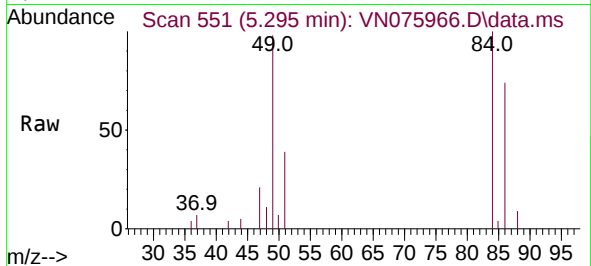




#20
Methylene Chloride
Concen: 4.361 ug/l
RT: 5.295 min Scan# 511
Delta R.T. 0.006 min
Lab File: VN075966.D
Acq: 23 Dec 2022 15:09

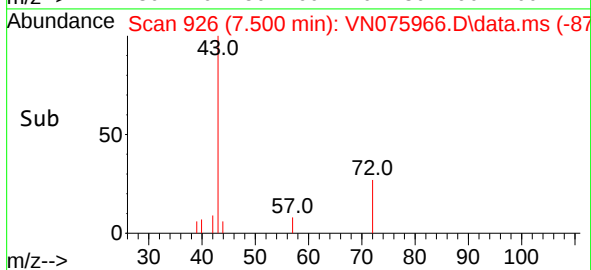
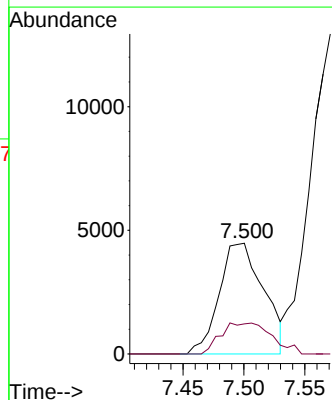
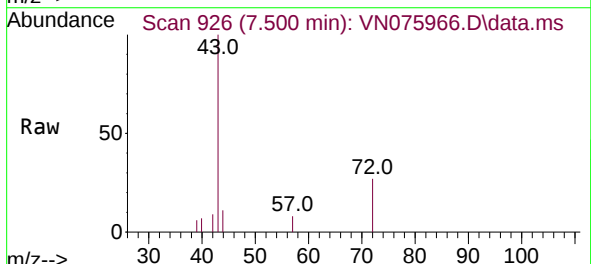
Instrument :
MSVOA_N
ClientSampleId :
PB149839TB

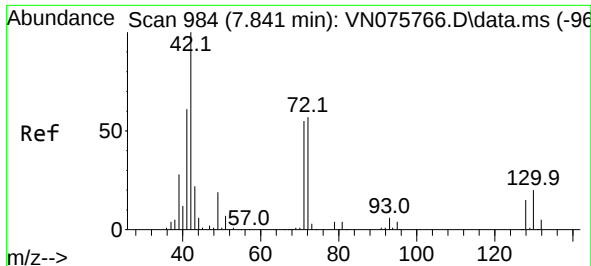
Tgt Ion: 84	Resp: 16873
Ion Ratio	Lower Upper
84 100	
49 98.4	81.8 122.6
51 38.6	26.7 40.1
86 73.8	51.5 77.3



#25
2-Butanone
Concen: 6.347 ug/l
RT: 7.500 min Scan# 926
Delta R.T. 0.012 min
Lab File: VN075966.D
Acq: 23 Dec 2022 15:09

Tgt Ion: 43	Resp: 11333		
Ion Ratio	Lower	Upper	
43 100			
72 27.1	28.0	42.0#	





#29

Tetrahydrofuran

Concen: 0.723 ug/l

RT: 7.847 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN075966.D

Acq: 23 Dec 2022 15:09

Instrument :

MSVOA_N

ClientSampleId :

PB149839TB

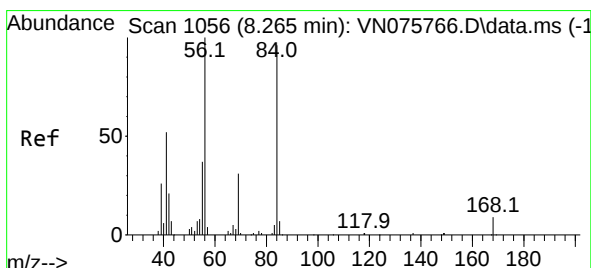
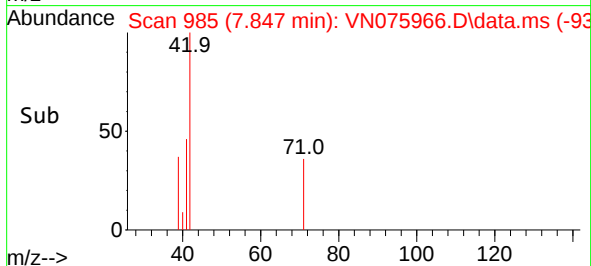
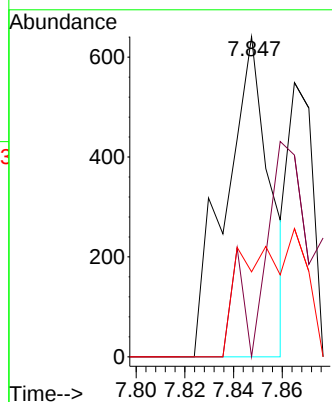
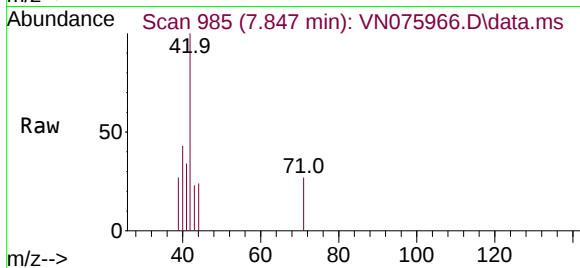
Tgt Ion: 42 Resp: 809

Ion Ratio Lower Upper

42 100

72 73.3 44.5 66.7#

71 60.7 41.0 61.6



#31

Cyclohexane

Concen: 1.276 ug/l

RT: 8.224 min Scan# 1049

Delta R.T. -0.041 min

Lab File: VN075966.D

Acq: 23 Dec 2022 15:09

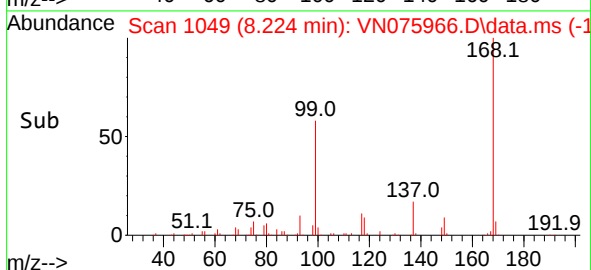
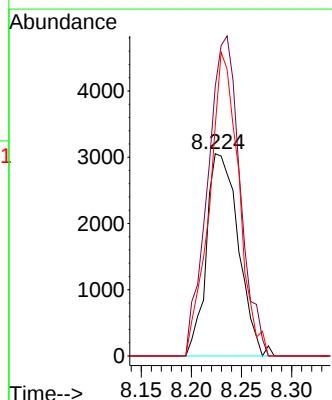
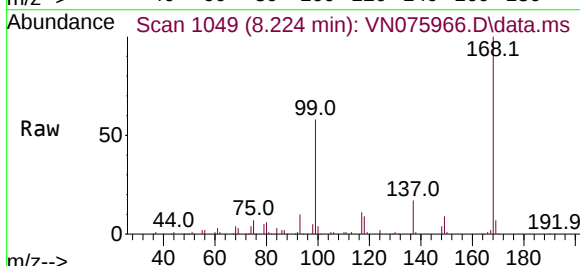
Tgt Ion: 56 Resp: 6760

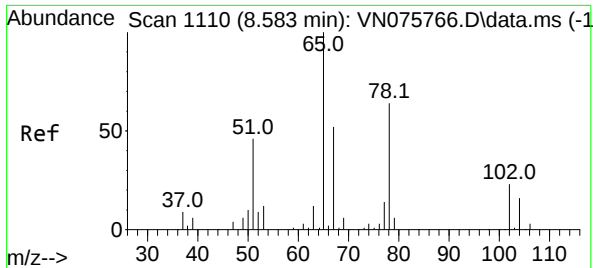
Ion Ratio Lower Upper

56 100

69 133.2 24.7 37.1#

84 113.7 76.5 114.7





#33

1,2-Dichloroethane-d4

Concen: 48.992 ug/l

RT: 8.588 min Scan# 1111

Delta R.T. 0.006 min

Lab File: VN075966.D

Acq: 23 Dec 2022 15:09

Instrument :

MSVOA_N

ClientSampleId :

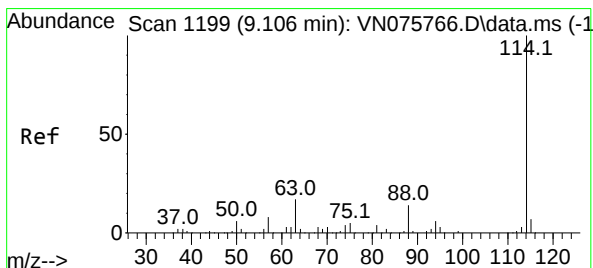
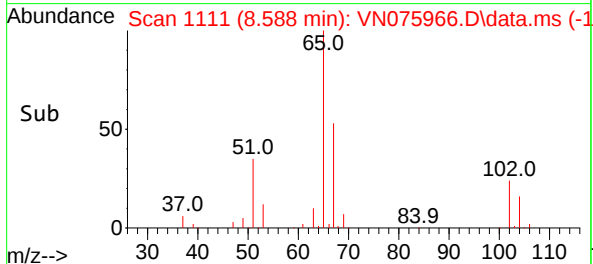
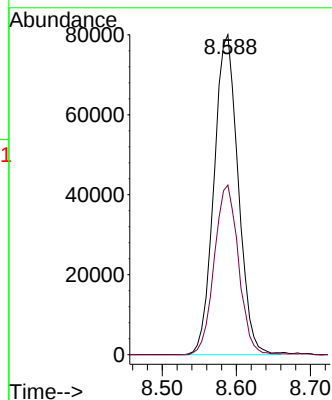
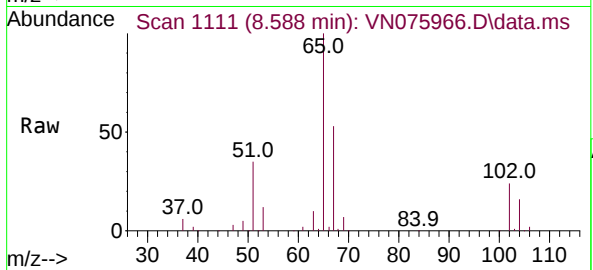
PB149839TB

Tgt Ion: 65 Resp: 181250

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: VN075966.D

Acq: 23 Dec 2022 15:09

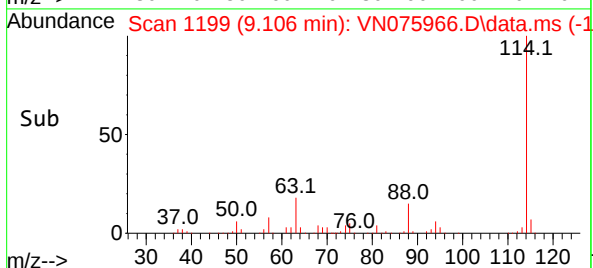
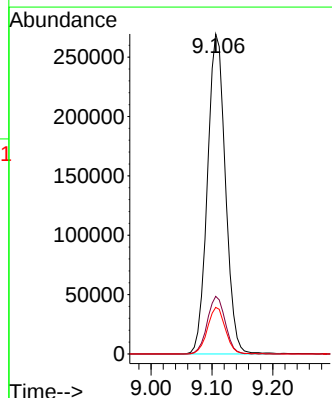
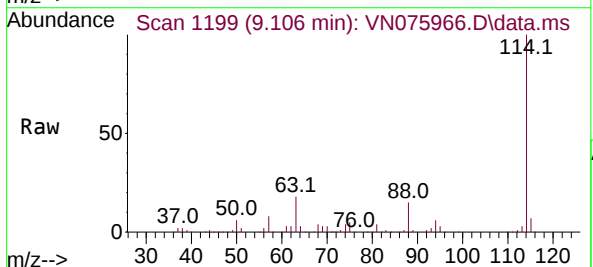
Tgt Ion: 114 Resp: 552511

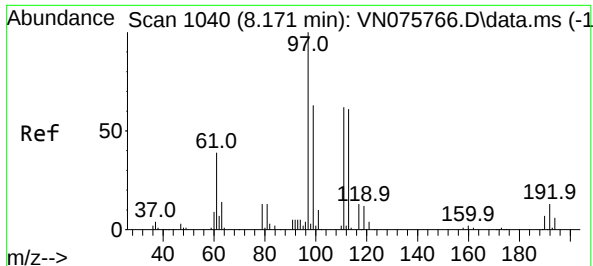
Ion Ratio Lower Upper

114 100

63 18.0 0.0 34.4

88 14.6 0.0 28.8





#35

Dibromofluoromethane

Concen: 47.170 ug/l

RT: 8.177 min Scan# 1041

Delta R.T. 0.006 min

Lab File: VN075966.D

Acq: 23 Dec 2022 15:09

Instrument :

MSVOA_N

ClientSampleId :

PB149839TB

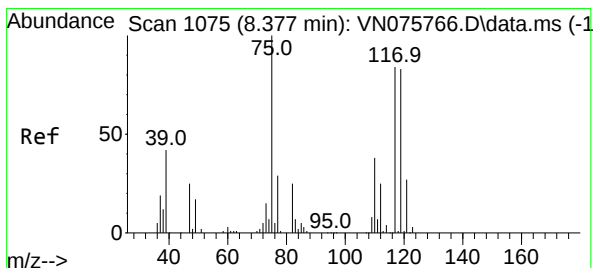
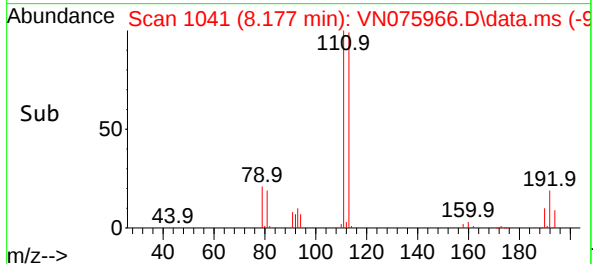
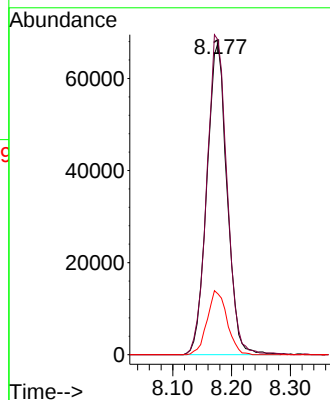
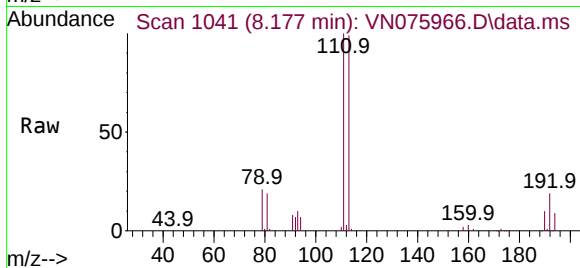
Tgt Ion:113 Resp: 161399

Ion Ratio Lower Upper

113 100

111 103.2 83.4 125.2

192 20.2 16.1 24.1



#36

1,1-Dichloropropene

Concen: 5.613 ug/l

RT: 8.236 min Scan# 1051

Delta R.T. -0.141 min

Lab File: VN075966.D

Acq: 23 Dec 2022 15:09

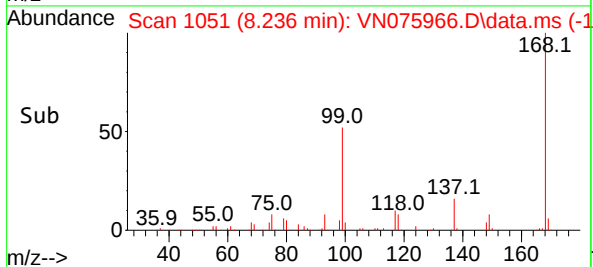
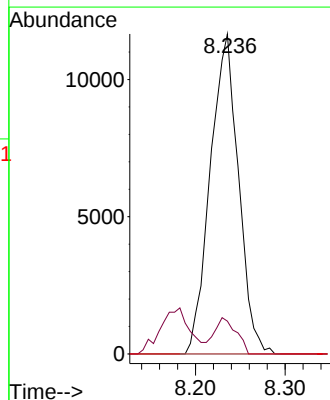
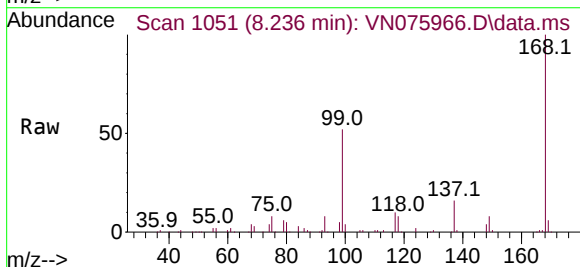
Tgt Ion: 75 Resp: 25511

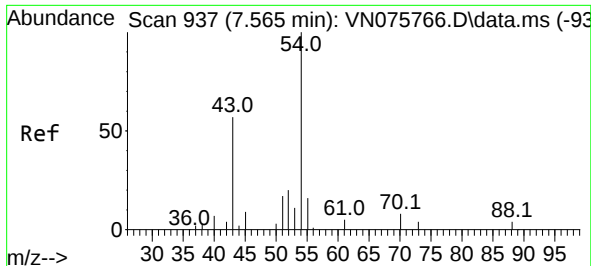
Ion Ratio Lower Upper

75 100

110 8.6 18.8 56.4#

77 0.0 24.1 36.1#

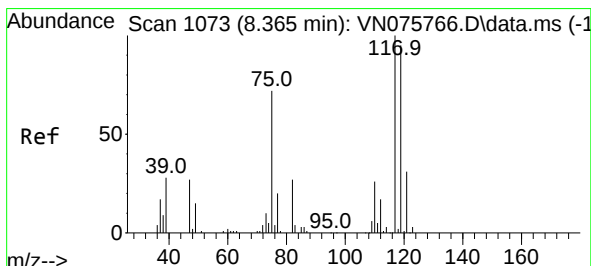
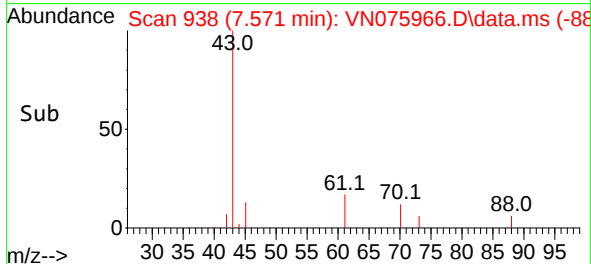
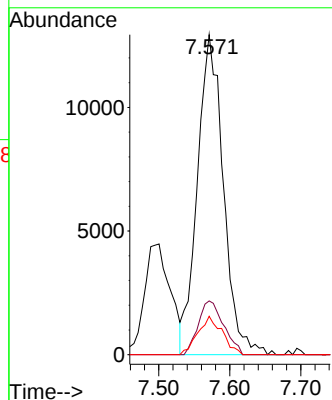
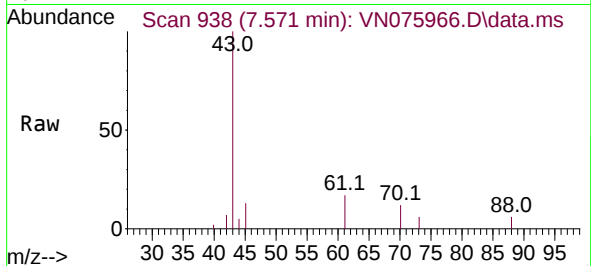




#37
Ethyl Acetate
Concen: 9.021 ug/l
RT: 7.571 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN075966.D
Acq: 23 Dec 2022 15:09

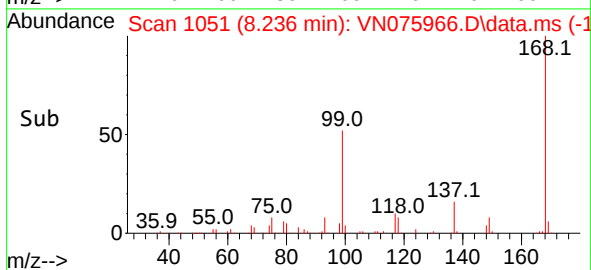
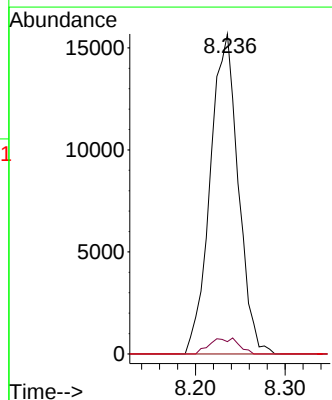
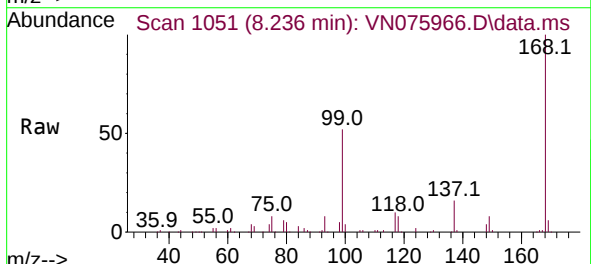
Instrument :
MSVOA_N
ClientSampleId :
PB149839TB

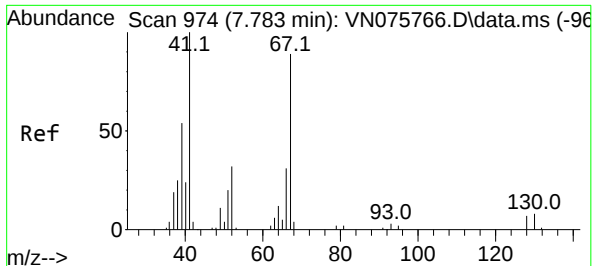
Tgt Ion: 43 Resp: 32937
Ion Ratio Lower Upper
43 100
61 16.4 13.0 19.4
70 11.2 9.4 14.0



#38
Carbon Tetrachloride
Concen: 6.696 ug/l
RT: 8.236 min Scan# 1051
Delta R.T. -0.129 min
Lab File: VN075966.D
Acq: 23 Dec 2022 15:09

Tgt Ion: 117 Resp: 34066
Ion Ratio Lower Upper
117 100
119 3.8 76.1 114.1#
121 0.0 24.5 36.7#

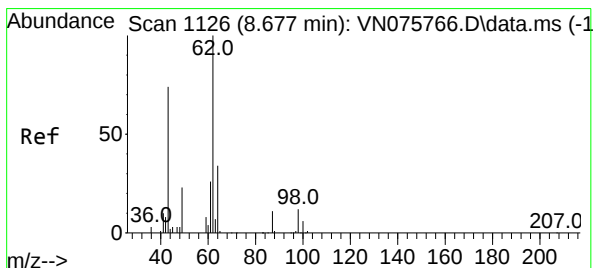
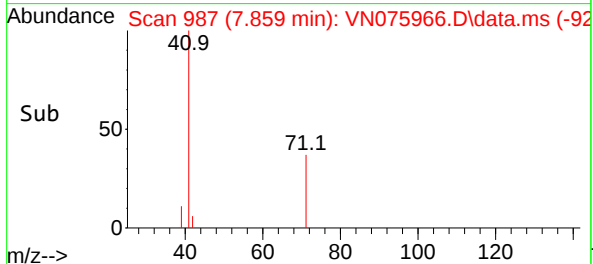
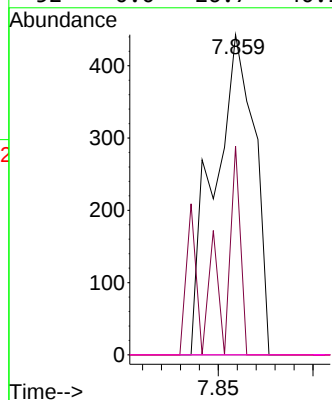
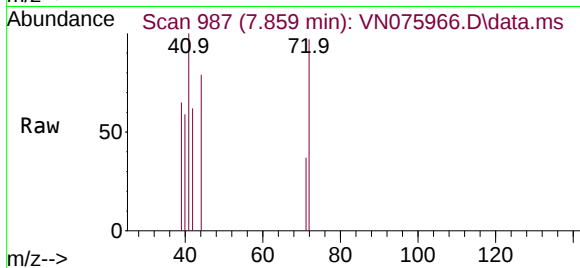




#41
Methacrylonitrile
Concen: 0.347 ug/l
RT: 7.859 min Scan# 91
Delta R.T. 0.077 min
Lab File: VN075966.D
Acq: 23 Dec 2022 15:09

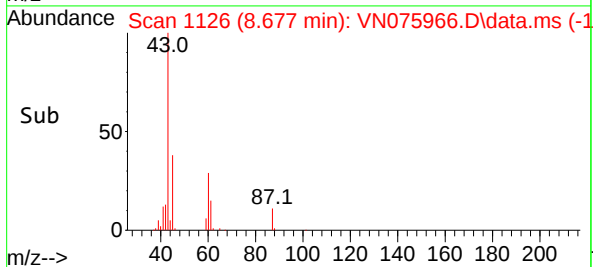
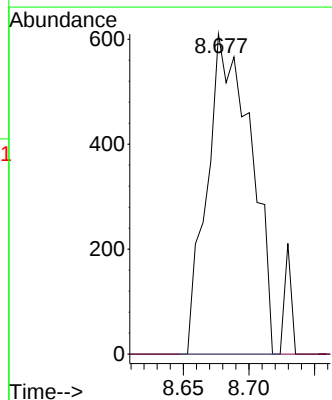
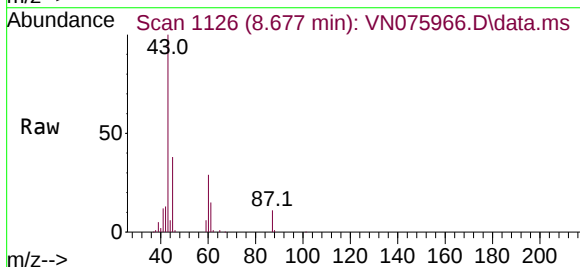
Instrument :
MSVOA_N
ClientSampleId :
PB149839TB

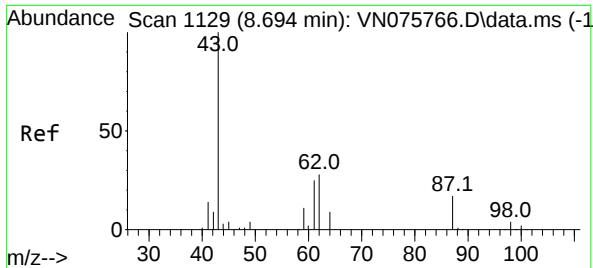
Tgt Ion:	41	Resp:	658
Ion	Ratio	Lower	Upper
41	100		
39	24.8	43.1	64.7#
67	0.0	70.7	106.1#
52	0.0	26.7	40.1#



#42
1,2-Dichloroethane
Concen: 0.303 ug/l
RT: 8.677 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN075966.D
Acq: 23 Dec 2022 15:09

Tgt Ion:	62	Resp:	1414
Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	20.8

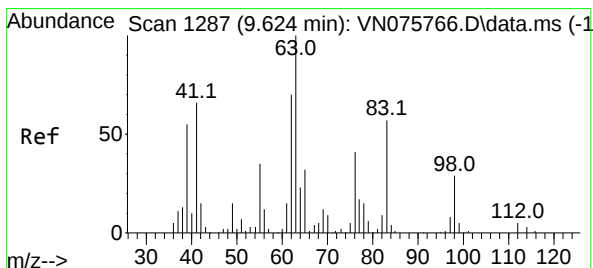
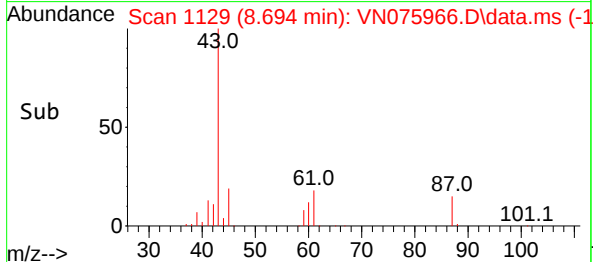
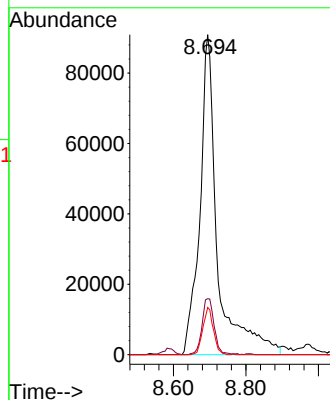
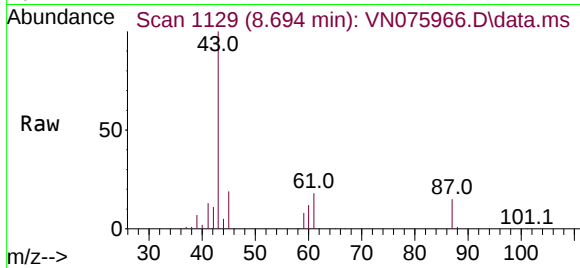




#43
Isopropyl Acetate
Concen: 50.857 ug/l
RT: 8.694 min Scan# 1129
Delta R.T. 0.000 min
Lab File: VN075966.D
Acq: 23 Dec 2022 15:09

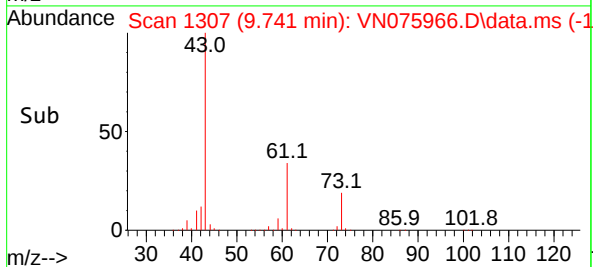
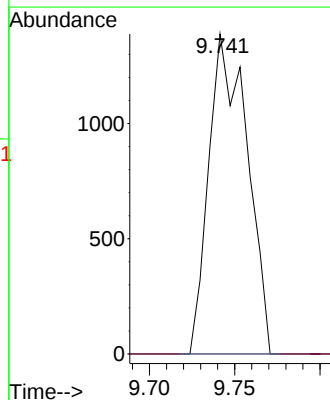
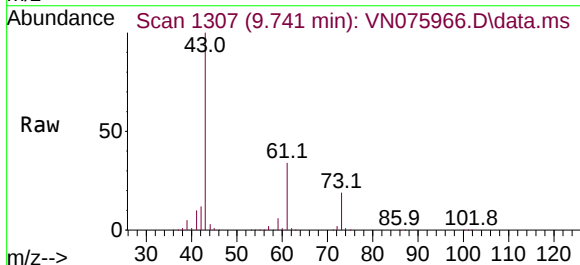
Instrument :
MSVOA_N
ClientSampleId :
PB149839TB

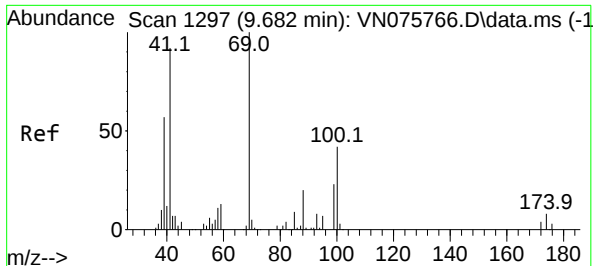
Tgt Ion: 43 Resp: 306289
Ion Ratio Lower Upper
43 100
61 12.1 24.2 36.4#
87 8.8 13.3 19.9#



#45
1,2-Dichloropropane
Concen: 0.636 ug/l
RT: 9.741 min Scan# 1307
Delta R.T. 0.118 min
Lab File: VN075966.D
Acq: 23 Dec 2022 15:09

Tgt Ion: 63 Resp: 2169
Ion Ratio Lower Upper
63 100
65 0.0 25.7 38.5#

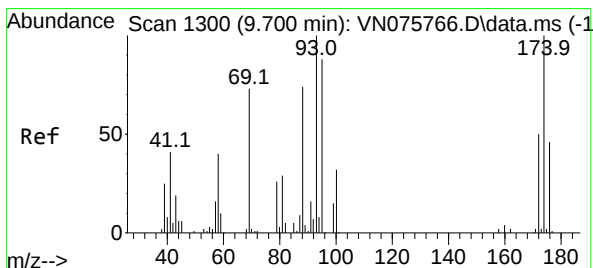
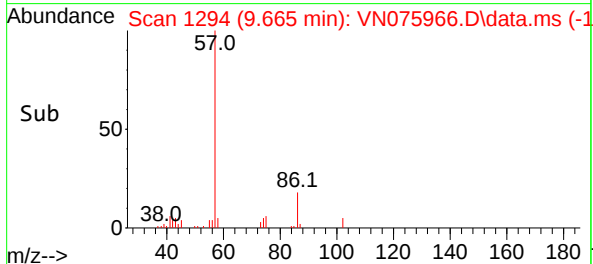
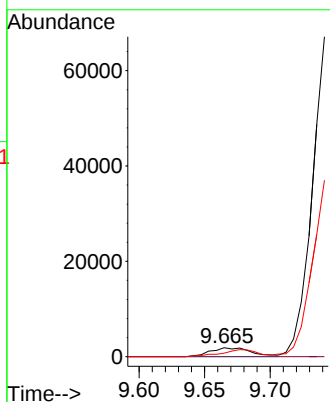
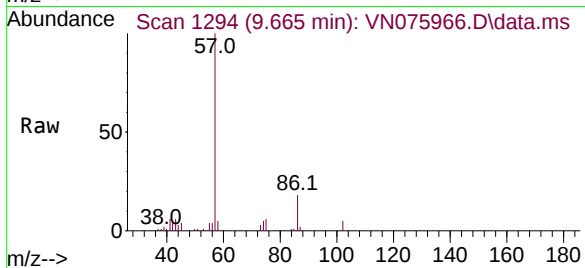




#48
Methyl methacrylate
Concen: 1.510 ug/l
RT: 9.665 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN075966.D
Acq: 23 Dec 2022 15:09

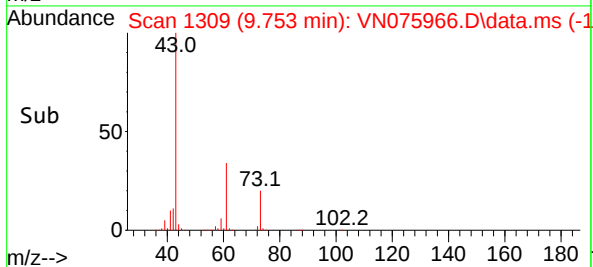
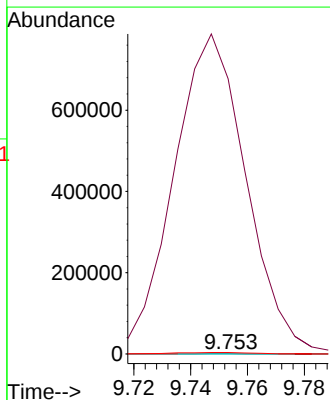
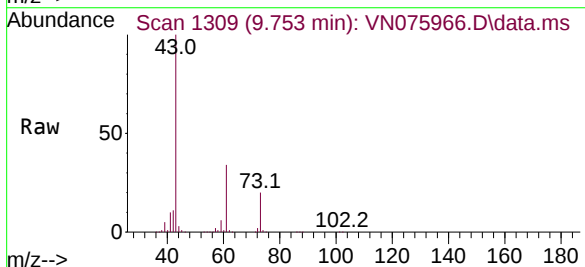
Instrument :
MSVOA_N
ClientSampleId :
PB149839TB

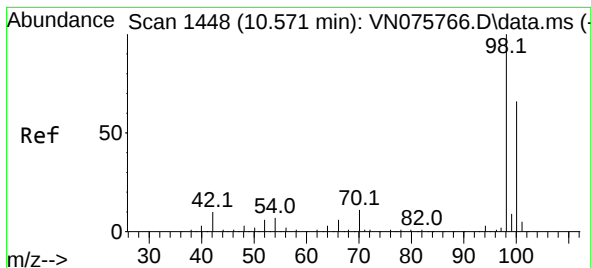
Tgt Ion: 41 Resp: 4096
Ion Ratio Lower Upper
41 100
69 0.0 81.9 122.9#
39 69.3 51.6 77.4



#49
1,4-Dioxane
Concen: 4.199 ug/l
RT: 9.753 min Scan# 1309
Delta R.T. 0.053 min
Lab File: VN075966.D
Acq: 23 Dec 2022 15:09

Tgt Ion: 88 Resp: 280
Ion Ratio Lower Upper
88 100
43 503228.2 17.1 25.7#
58 2500.0 47.8 71.8#

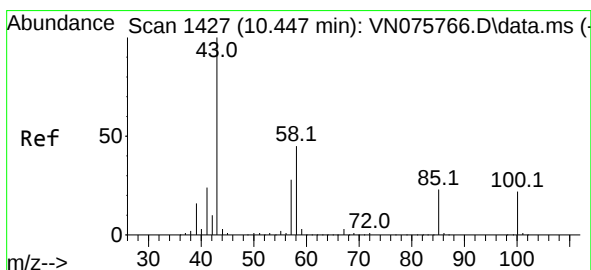
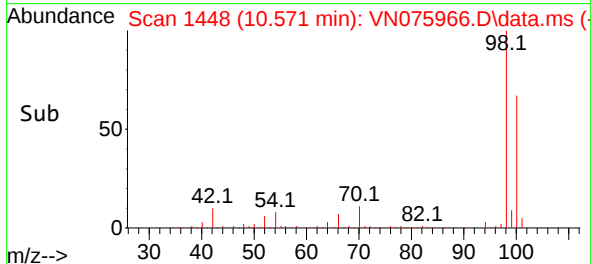
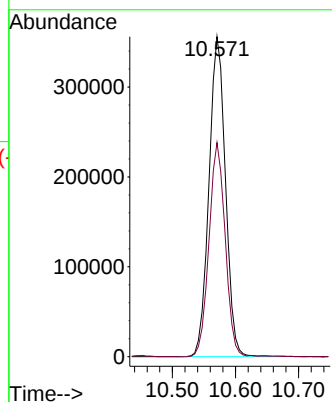
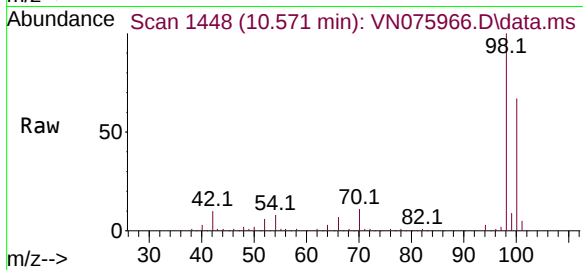




#50
Toluene-d8
Concen: 50.558 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. 0.000 min
Lab File: VN075966.D
Acq: 23 Dec 2022 15:09

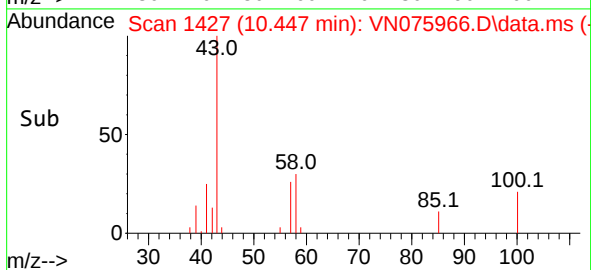
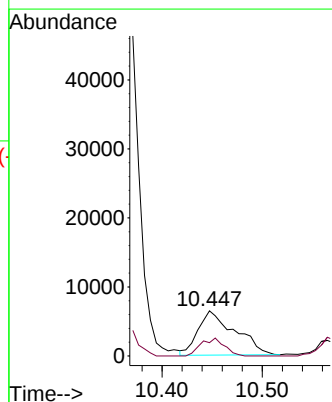
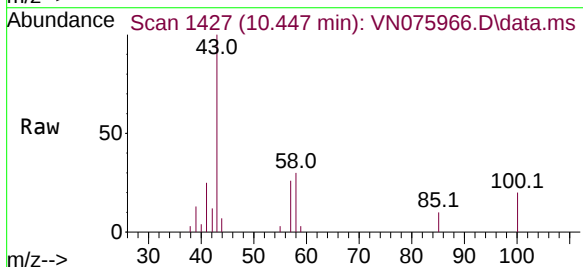
Instrument :
MSVOA_N
ClientSampleId :
PB149839TB

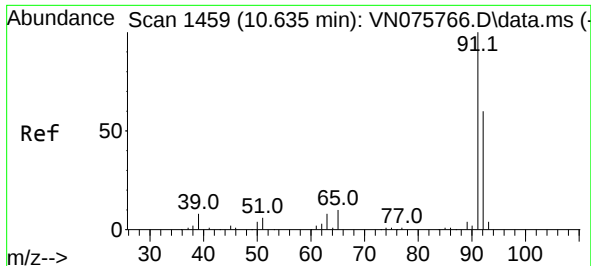
Tgt Ion: 98 Resp: 646796
Ion Ratio Lower Upper
98 100
100 65.8 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 4.513 ug/l
RT: 10.447 min Scan# 1427
Delta R.T. 0.000 min
Lab File: VN075966.D
Acq: 23 Dec 2022 15:09

Tgt Ion: 43 Resp: 16439
Ion Ratio Lower Upper
43 100
58 25.9 35.5 53.3#

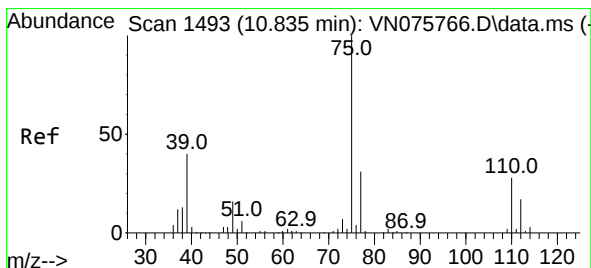
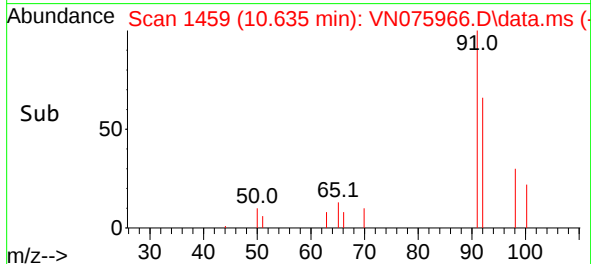
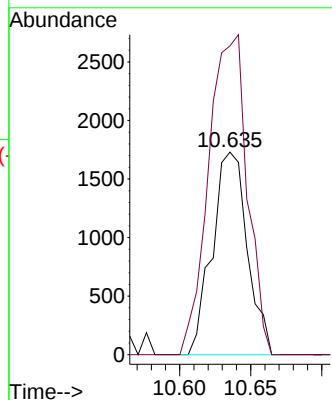
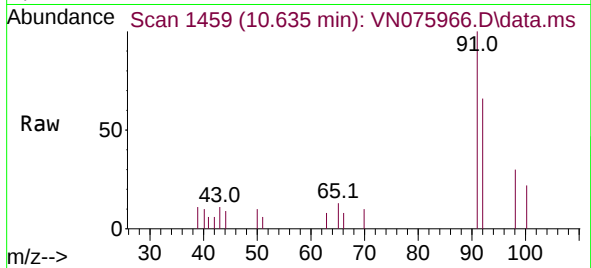




#52
Toluene
Concen: 0.326 ug/l
RT: 10.635 min Scan# 1459
Delta R.T. 0.000 min
Lab File: VN075966.D
Acq: 23 Dec 2022 15:09

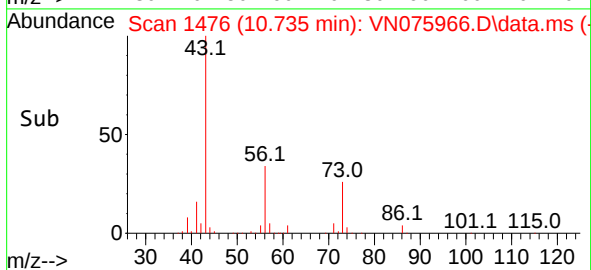
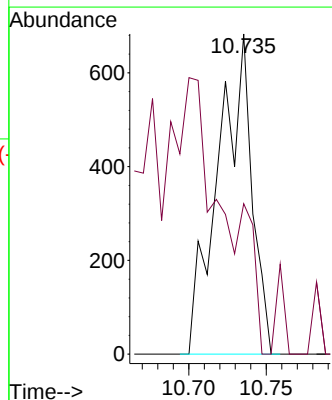
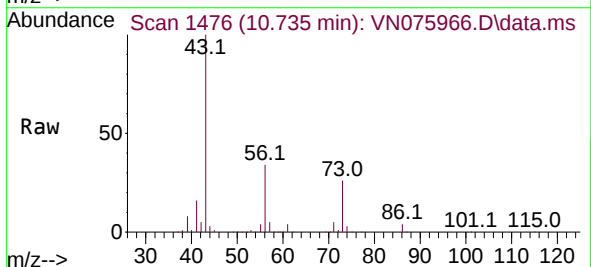
Instrument :
MSVOA_N
ClientSampleId :
PB149839TB

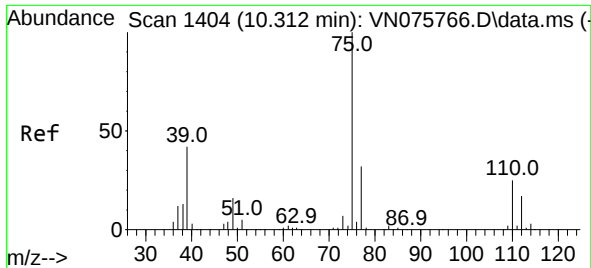
Tgt Ion: 92 Resp: 2980
Ion Ratio Lower Upper
92 100
91 173.7 137.3 205.9



#53
t-1,3-Dichloropropene
Concen: 0.212 ug/l
RT: 10.735 min Scan# 1476
Delta R.T. -0.100 min
Lab File: VN075966.D
Acq: 23 Dec 2022 15:09

Tgt Ion: 75 Resp: 1028
Ion Ratio Lower Upper
75 100
77 18.9 24.9 37.3#

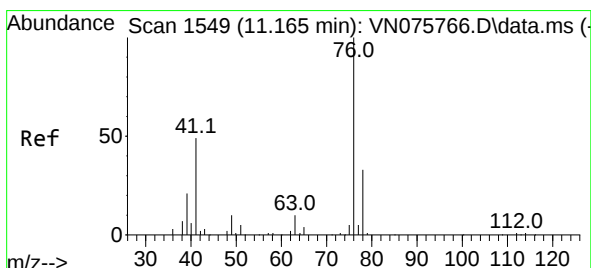
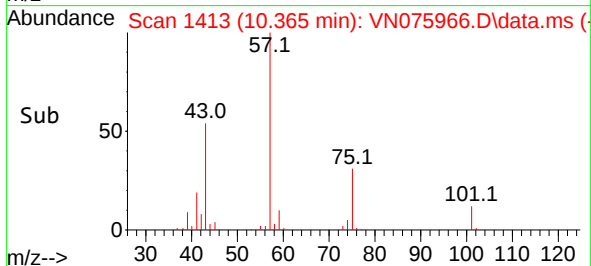
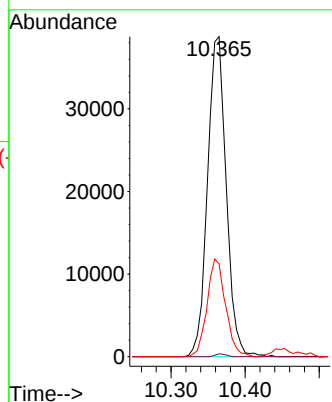
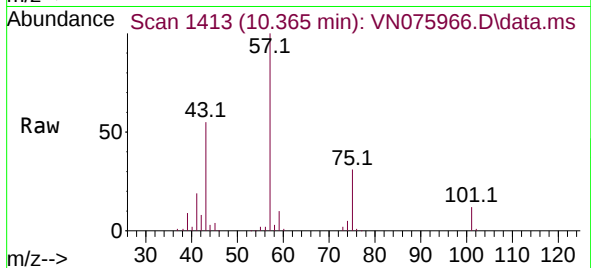




#54
 cis-1,3-Dichloropropene
 Concen: 12.732 ug/l
 RT: 10.365 min Scan# 1404
 Delta R.T. 0.053 min
 Lab File: VN075966.D
 Acq: 23 Dec 2022 15:09

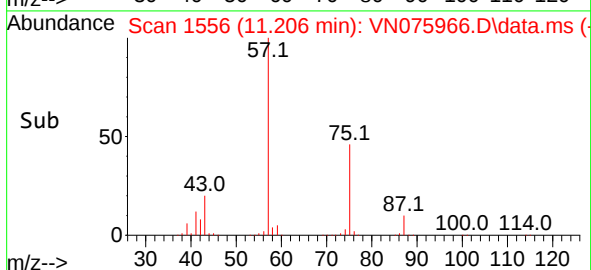
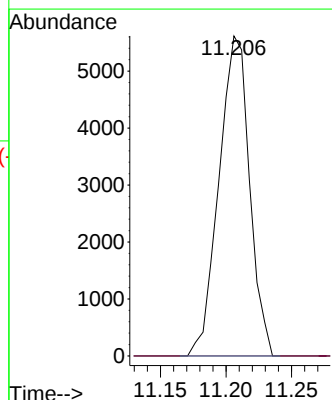
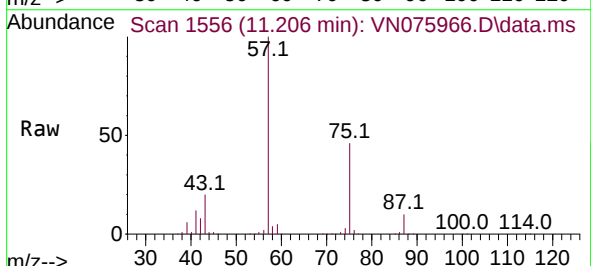
Instrument :
 MSVOA_N
 ClientSampleId :
 PB149839TB

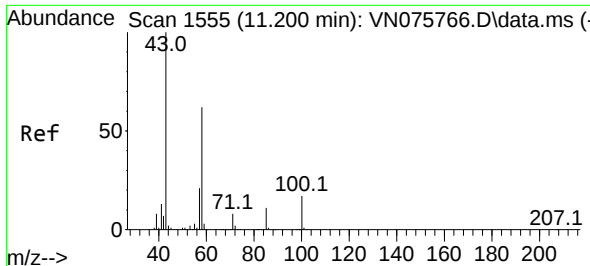
Tgt Ion: 75 Resp: 67920
 Ion Ratio Lower Upper
 75 100
 77 0.9 25.8 38.8#
 39 29.0 33.4 50.2#



#57
 1,3-Dichloropropane
 Concen: 1.548 ug/l
 RT: 11.206 min Scan# 1556
 Delta R.T. 0.041 min
 Lab File: VN075966.D
 Acq: 23 Dec 2022 15:09

Tgt Ion: 76 Resp: 9102
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.2#

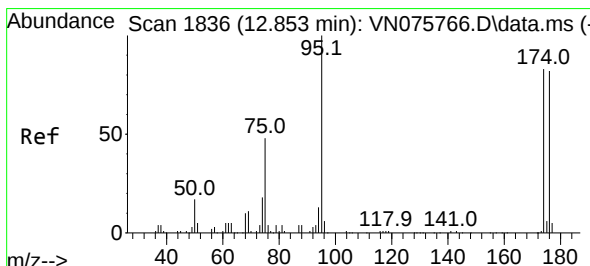
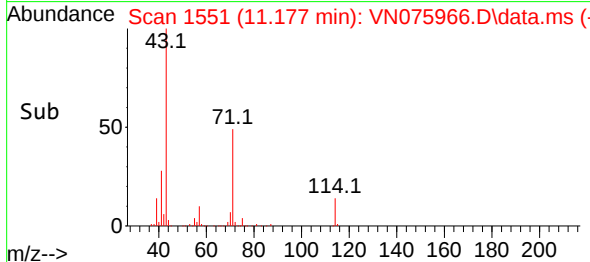
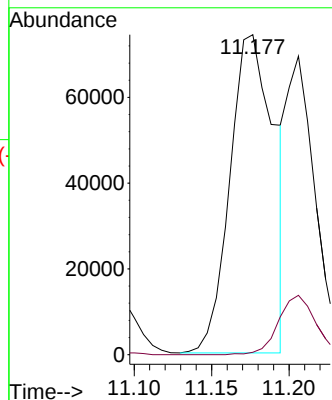
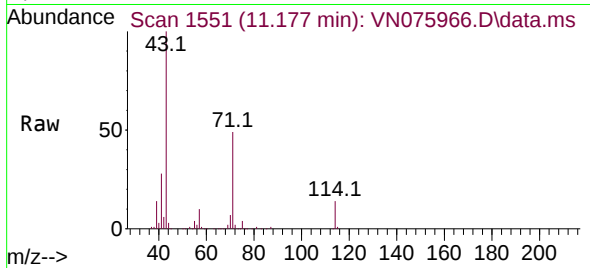




#59
2-Hexanone
Concen: 55.481 ug/l
RT: 11.177 min Scan# 11
Delta R.T. -0.023 min
Lab File: VN075966.D
Acq: 23 Dec 2022 15:09

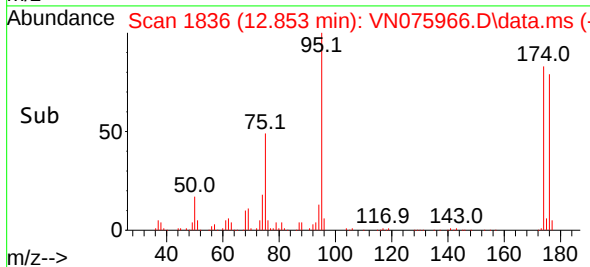
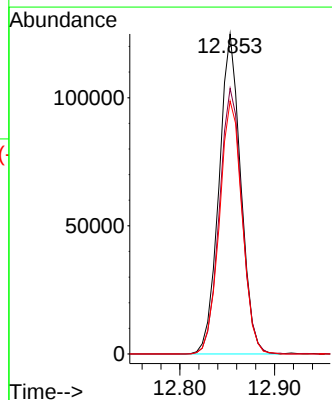
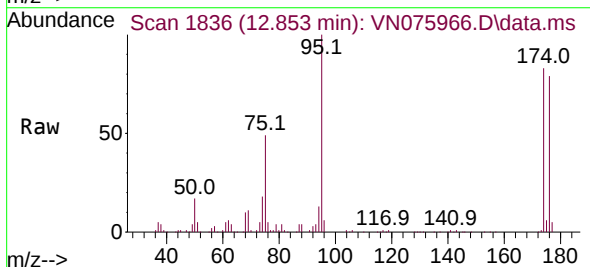
Instrument :
MSVOA_N
ClientSampleId :
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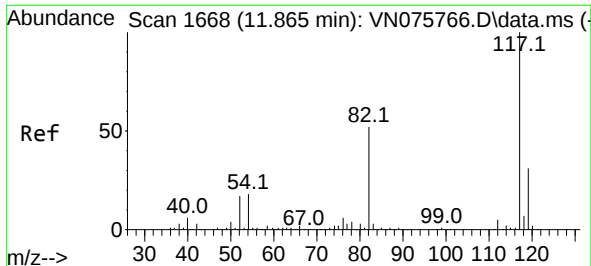
Tgt Ion: 43 Resp: 147366
Ion Ratio Lower Upper
43 100
58 0.0 30.6 92.0#



#62
4-Bromofluorobenzene
Concen: 47.092 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.000 min
Lab File: VN075966.D
Acq: 23 Dec 2022 15:09

Tgt Ion: 95 Resp: 199539
Ion Ratio Lower Upper
95 100
174 85.9 0.0 171.6
176 82.2 0.0 169.2

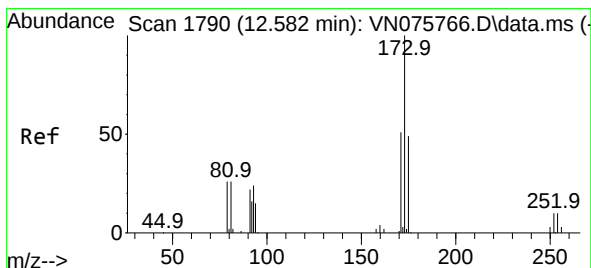
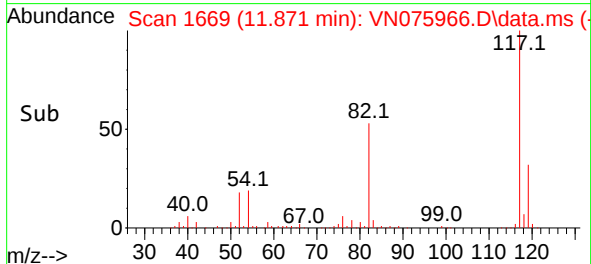
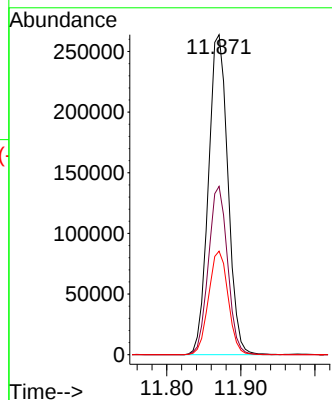
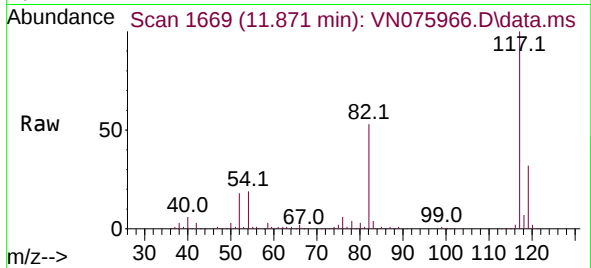




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1177
Delta R.T. 0.006 min
Lab File: VN075966.D
Acq: 23 Dec 2022 15:09

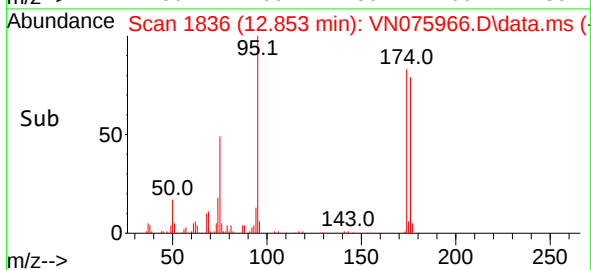
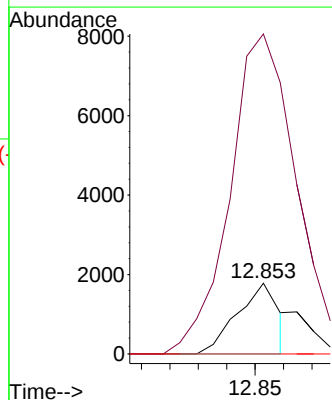
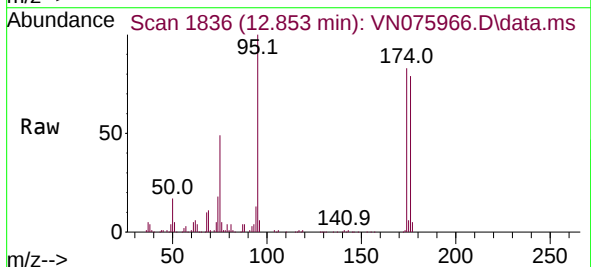
Instrument :
MSVOA_N
ClientSampleId :
PB149839TB

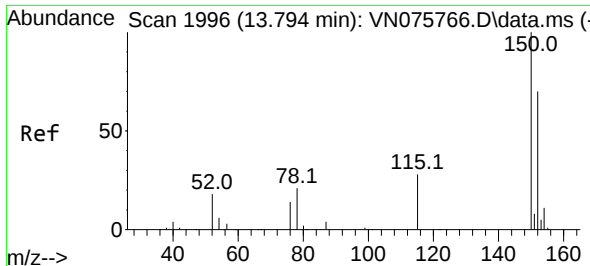
Tgt Ion:117 Resp: 482039
Ion Ratio Lower Upper
117 100
82 52.6 41.3 61.9
119 32.4 24.6 37.0



#71
Bromoform
Concen: 0.681 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.271 min
Lab File: VN075966.D
Acq: 23 Dec 2022 15:09

Tgt Ion:173 Resp: 1815
Ion Ratio Lower Upper
173 100
175 569.1 24.3 72.8#
254 0.0 0.0 0.0

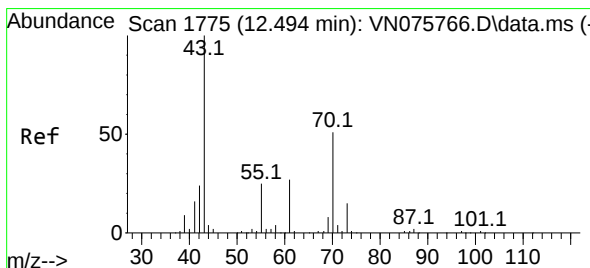
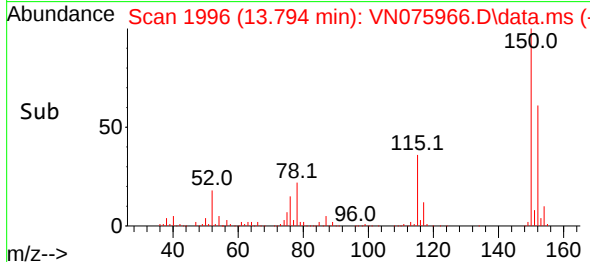
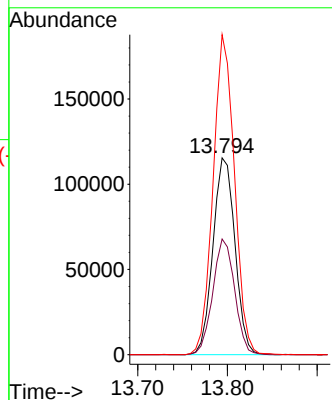
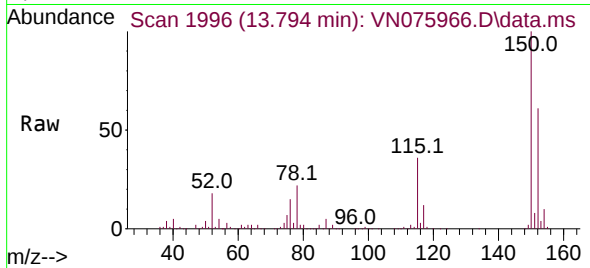




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1996
Delta R.T. 0.000 min
Lab File: VN075966.D
Acq: 23 Dec 2022 15:09

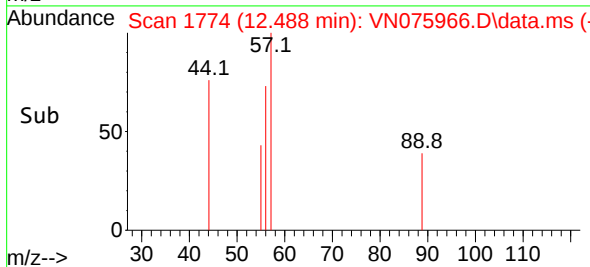
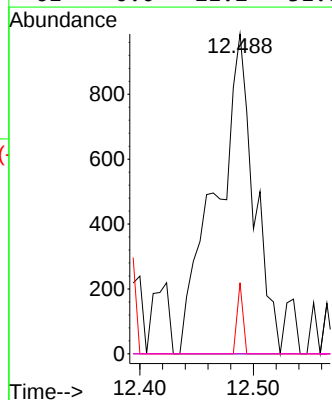
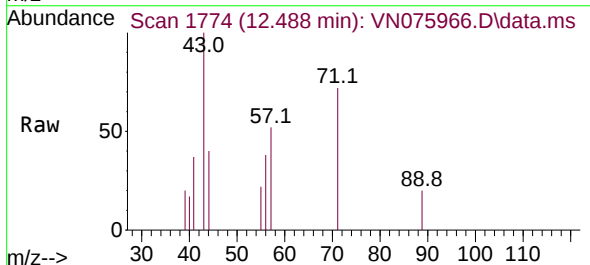
Instrument :
MSVOA_N
ClientSampleId :
PB149839TB

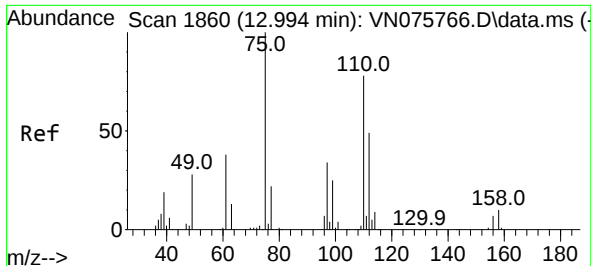
Tgt Ion:152 Resp: 196967
Ion Ratio Lower Upper
152 100
115 58.3 29.1 87.4
150 157.8 0.0 347.0



#74
N-ethyl acetate
Concen: 0.552 ug/l
RT: 12.488 min Scan# 1774
Delta R.T. -0.006 min
Lab File: VN075966.D
Acq: 23 Dec 2022 15:09

Tgt Ion: 43 Resp: 2303
Ion Ratio Lower Upper
43 100
70 0.0 41.4 62.0#
55 3.3 21.3 31.9#
61 0.0 21.2 31.8#

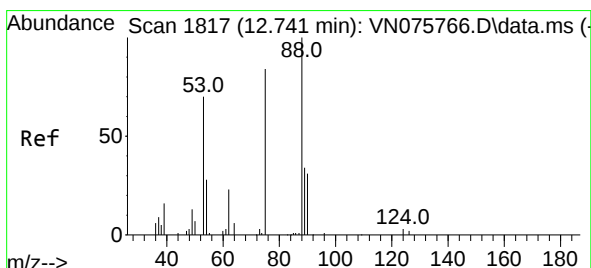
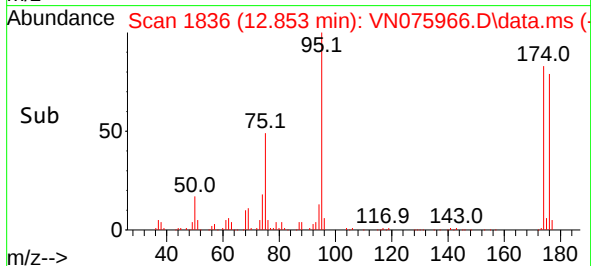
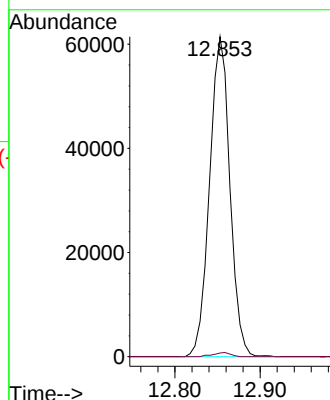
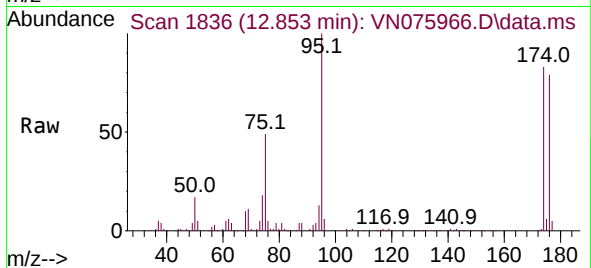




#76
1,2,3-Trichloropropane
Concen: 25.680 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.141 min
Lab File: VN075966.D
Acq: 23 Dec 2022 15:09

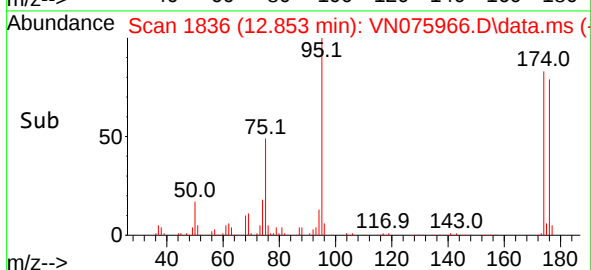
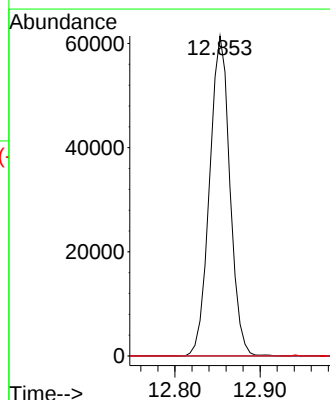
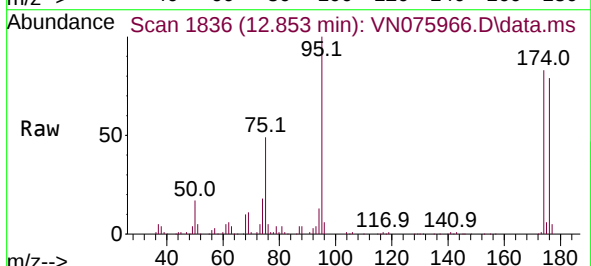
Instrument :
MSVOA_N
ClientSampleId :
PB149839TB

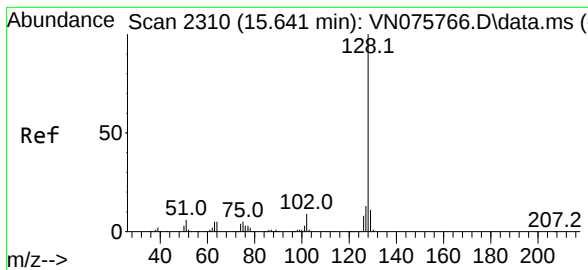
Tgt Ion: 75 Resp: 101958
Ion Ratio Lower Upper
75 100
77 1.1 82.6 247.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 92.434 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.112 min
Lab File: VN075966.D
Acq: 23 Dec 2022 15:09

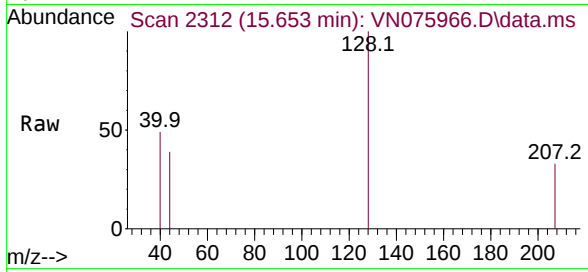
Tgt Ion: 75 Resp: 101958
Ion Ratio Lower Upper
75 100
53 0.0 73.8 110.6#
89 0.0 39.5 59.3#





#95
Naphthalene
Concen: 2.289 ug/l
RT: 15.653 min Scan# 21
Delta R.T. 0.012 min
Lab File: VN075966.D
Acq: 23 Dec 2022 15:09

Instrument :
MSVOA_N
ClientSampleId :
PB149839TB



Tgt Ion:128 Resp: 1249
Ion Ratio Lower Upper
128 100
127 5.6 10.4 15.6#
129 0.0 8.7 13.1#

