

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032323\
 Data File : VN077141.D
 Acq On : 23 Mar 2023 11:41
 Operator : JC\MD
 Sample : VN0323MBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 24 01:33:04 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031723W.M
 Quant Title : SW846 8260
 QLast Update : Mon Mar 20 08:50:30 2023
 Response via : Initial Calibration

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

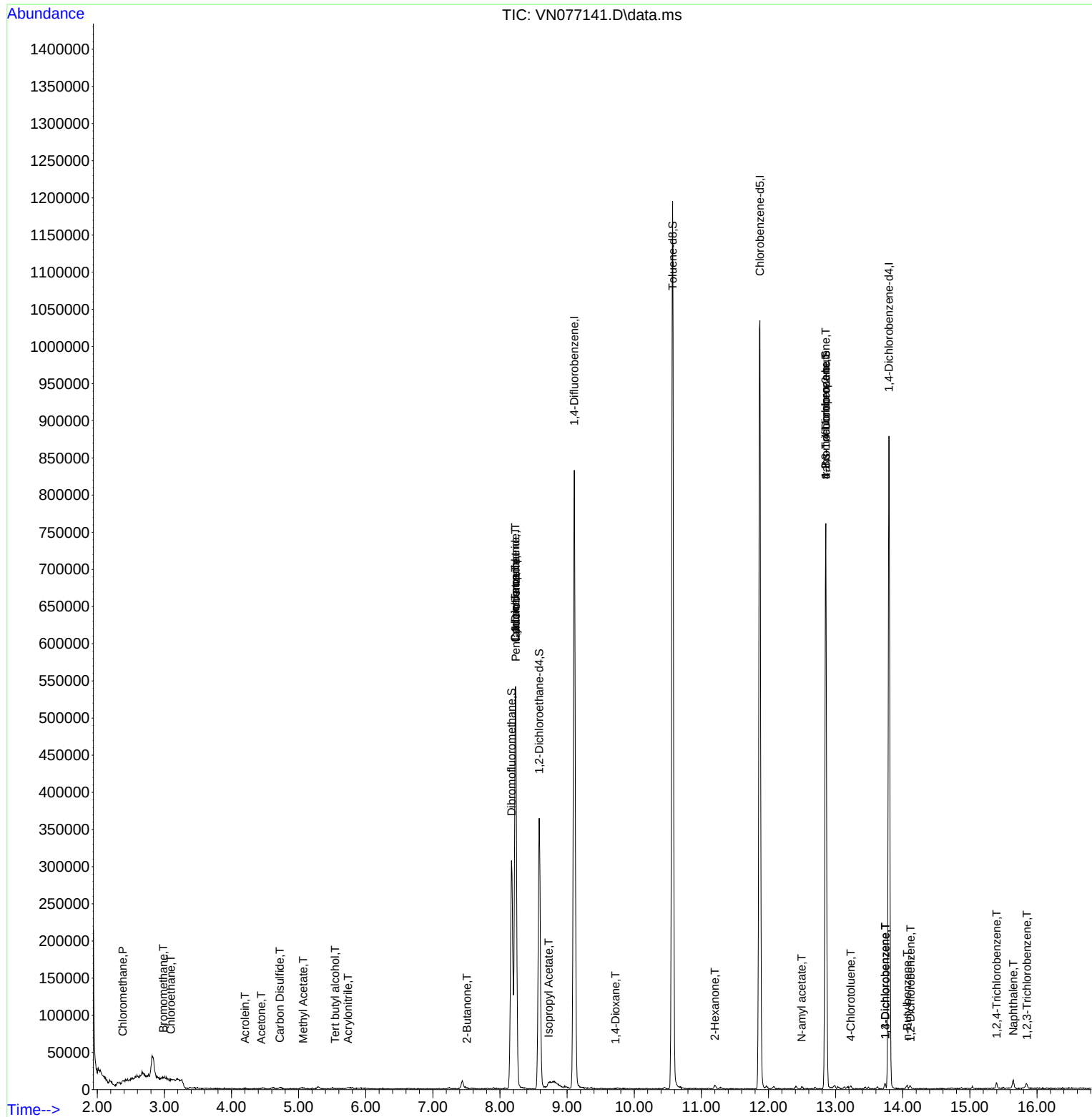
Internal Standards						
1) Pentafluorobenzene	8.236	168	374652	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	652380	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	571064	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	212970	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	289331	48.348	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	96.700%
35) Dibromofluoromethane	8.172	113	217687	47.647	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	95.300%
50) Toluene-d8	10.571	98	805106	49.332	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	98.660%
62) 4-Bromofluorobenzene	12.854	95	239647	41.556	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	83.120%
Target Compounds						
					Qvalue	
3) Chloromethane	2.378	50	1313	0.348	ug/l	90
5) Bromomethane	2.984	94	3056	1.110	ug/l	88
6) Chloroethane	3.095	64	858	0.333	ug/l #	42
11) Tert butyl alcohol	5.542	59	203	0.233	ug/l #	72
13) Acrolein	4.201	56	757	0.702	ug/l #	62
15) Acrylonitrile	5.736	53	1175	0.401	ug/l #	26
16) Acetone	4.442	43	2246	0.842	ug/l #	43
17) Carbon Disulfide	4.719	76	3387	0.255	ug/l #	77
18) Methyl Acetate	5.066	43	3656	0.364	ug/l #	63
25) 2-Butanone	7.507	43	1822	0.467	ug/l	92
31) Cyclohexane	8.230	56	11104	1.134	ug/l #	26
36) 1,1-Dichloropropene	8.230	75	34246	4.799	ug/l #	52
38) Carbon Tetrachloride	8.230	117	41945	6.035	ug/l #	17
43) Isopropyl Acetate	8.724	43	5601	0.470	ug/l #	56
49) 1,4-Dioxane	9.718	88	83	0.852	ug/l #	21
59) 2-Hexanone	11.201	43	3637	0.675	ug/l	95
74) N-amyl acetate	12.495	43	1850	0.224	ug/l #	78
76) 1,2,3-Trichloropropane	12.854	75	136368	24.755	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	136368	68.139	ug/l #	10
82) 4-Chlorotoluene	13.224	91	2823	0.211	ug/l	87
87) 1,3-Dichlorobenzene	13.742	146	2529	0.313	ug/l	94
88) 1,4-Dichlorobenzene	13.742	146	2529	0.315	ug/l	95
89) n-Butylbenzene	14.065	91	3039	0.227	ug/l	95
91) 1,2-Dichlorobenzene	14.118	146	2043	0.254	ug/l	87
93) 1,2,4-Trichlorobenzene	15.400	180	2893	0.795	ug/l	91
95) Naphthalene	15.648	128	9426	2.553	ug/l	98
96) 1,2,3-Trichlorobenzene	15.847	180	2729	0.747	ug/l	96

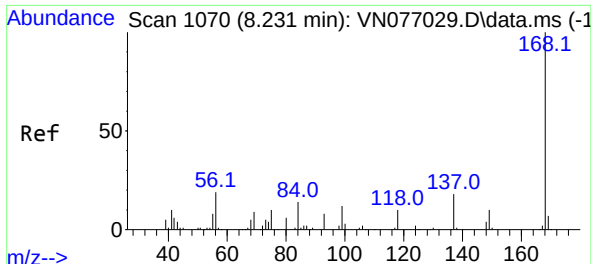
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031723W.M
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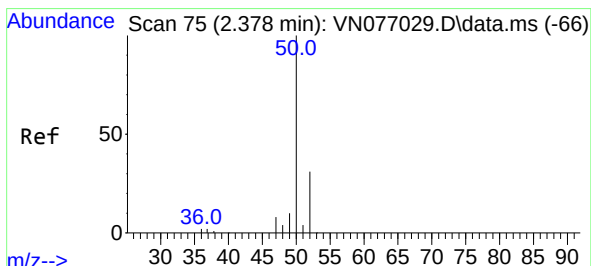
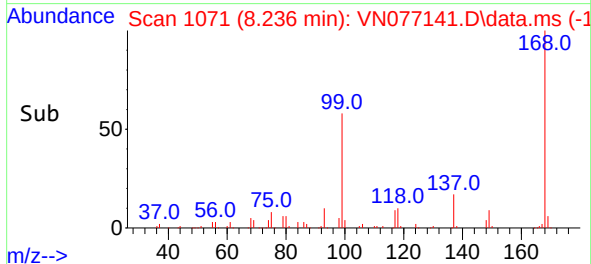
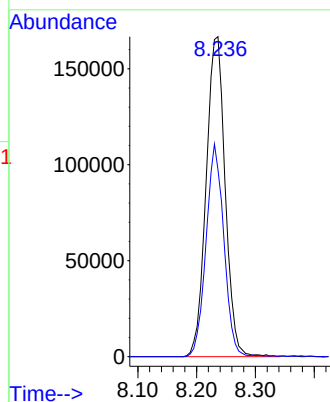
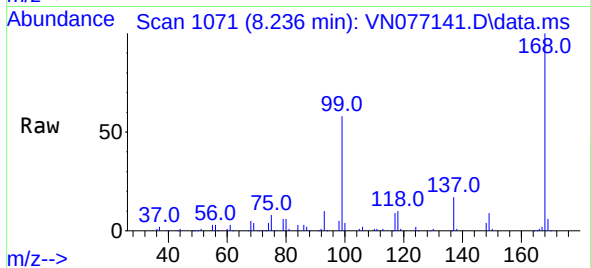




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 10
Delta R.T. 0.005 min
Lab File: VN077141.D
Acq: 23 Mar 2023 11:41

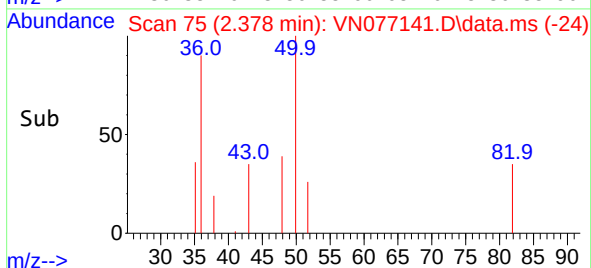
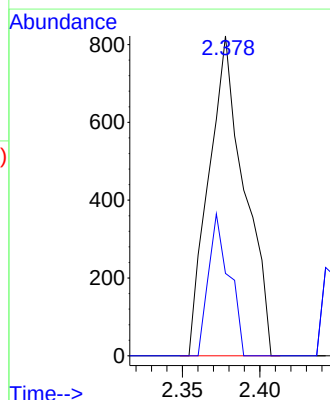
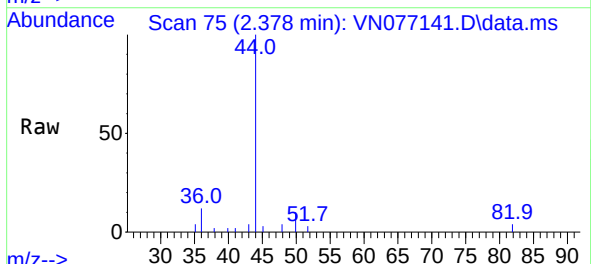
Instrument :
MSVOA_N
ClientSampleId :

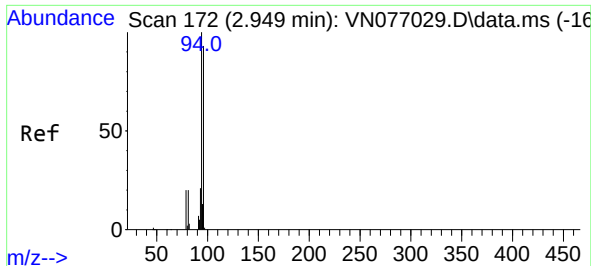
Tgt Ion:168 Resp: 374652
Ion Ratio Lower Upper
168 100
99 58.5 53.9 80.9



#3
Chloromethane
Concen: 0.348 ug/l
RT: 2.378 min Scan# 75
Delta R.T. -0.000 min
Lab File: VN077141.D
Acq: 23 Mar 2023 11:41

Tgt Ion: 50 Resp: 1313
Ion Ratio Lower Upper
50 100
52 25.8 25.1 37.7

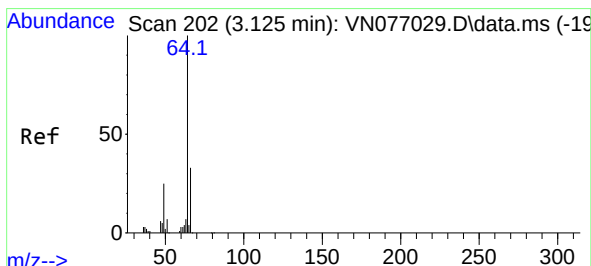
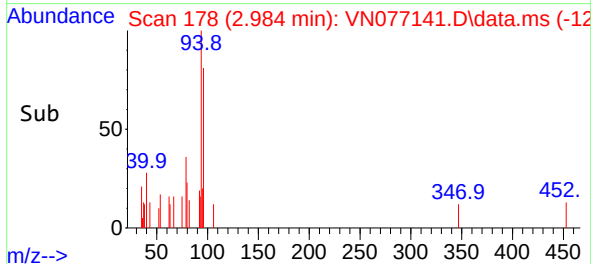
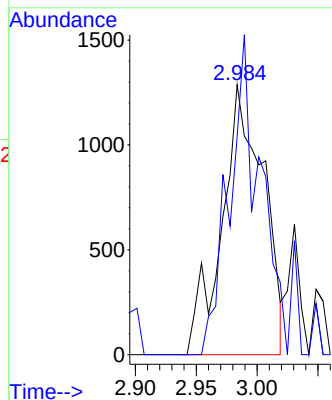
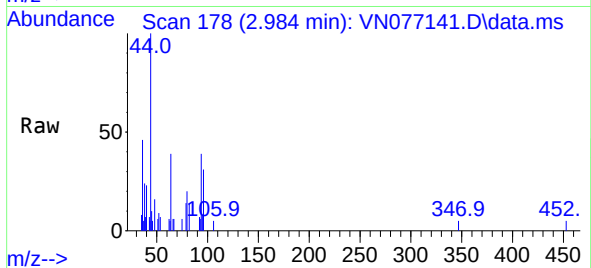




#5
Bromomethane
Concen: 1.110 ug/l
RT: 2.984 min Scan# 11
Delta R.T. 0.035 min
Lab File: VN077141.D
Acq: 23 Mar 2023 11:41

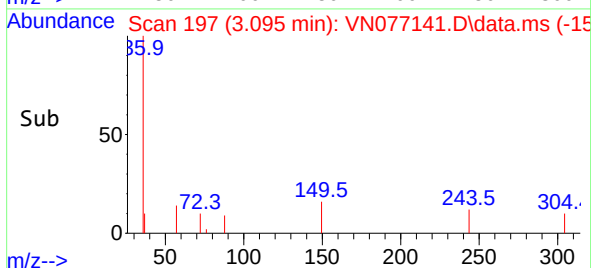
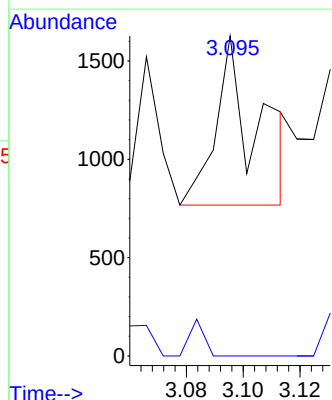
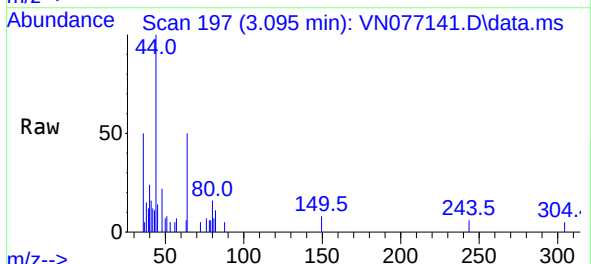
Instrument :
MSVOA_N
ClientSampleId :

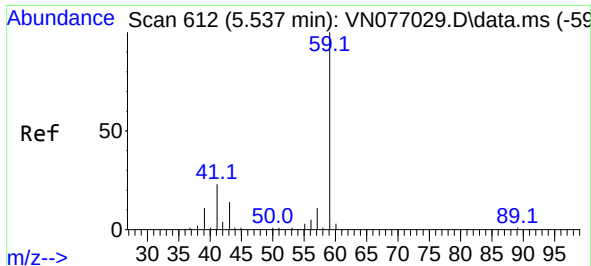
Tgt Ion: 94 Resp: 3056
Ion Ratio Lower Upper
94 100
96 80.9 74.1 111.1



#6
Chloroethane
Concen: 0.333 ug/l
RT: 3.095 min Scan# 197
Delta R.T. -0.030 min
Lab File: VN077141.D
Acq: 23 Mar 2023 11:41

Tgt Ion: 64 Resp: 858
Ion Ratio Lower Upper
64 100
66 0.0 26.3 39.5#

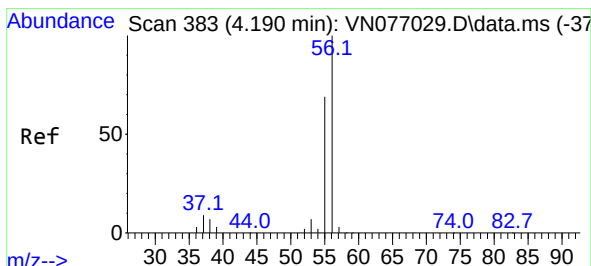
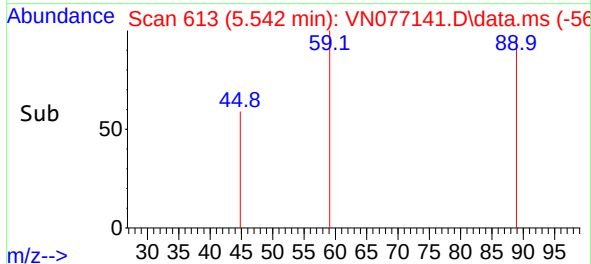
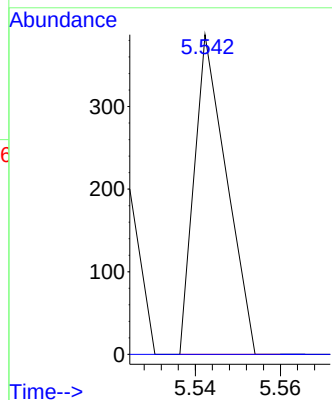
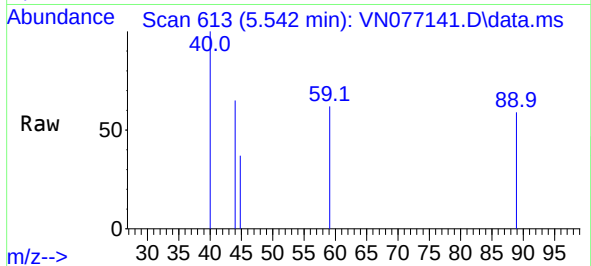




#11
Tert butyl alcohol
Concen: 0.233 ug/l
RT: 5.542 min Scan# 612
Delta R.T. 0.005 min
Lab File: VN077141.D
Acq: 23 Mar 2023 11:41

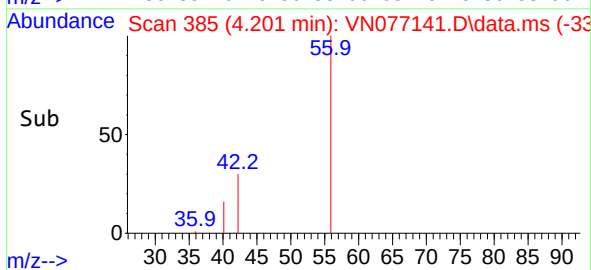
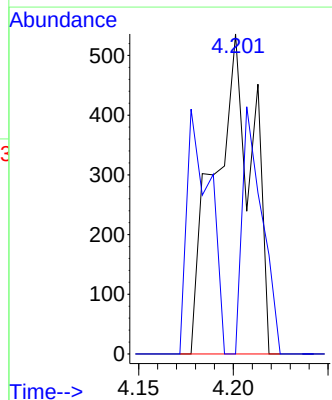
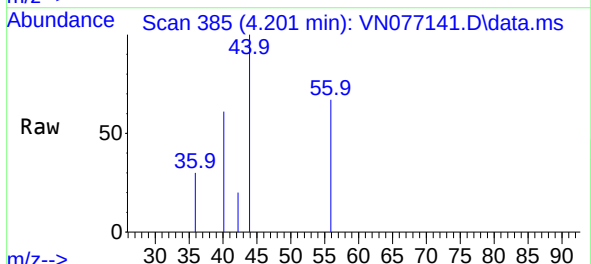
Instrument :
MSVOA_N
ClientSampleId :

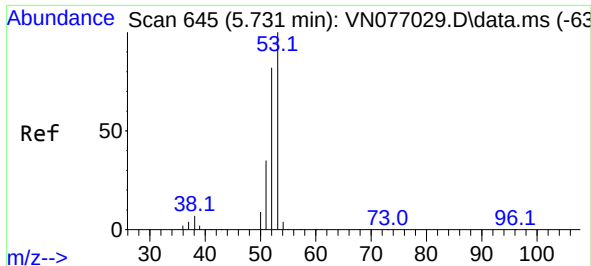
Tgt Ion: 59 Resp: 203
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#13
Acrolein
Concen: 0.702 ug/l
RT: 4.201 min Scan# 385
Delta R.T. 0.011 min
Lab File: VN077141.D
Acq: 23 Mar 2023 11:41

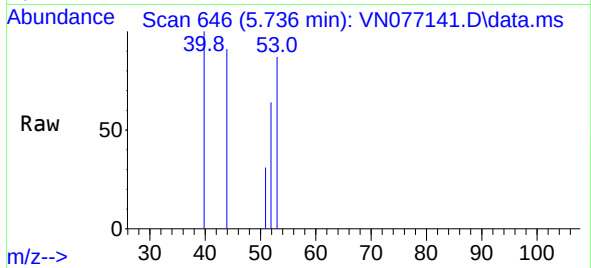
Tgt Ion: 56 Resp: 757
Ion Ratio Lower Upper
56 100
55 39.6 57.0 85.6#



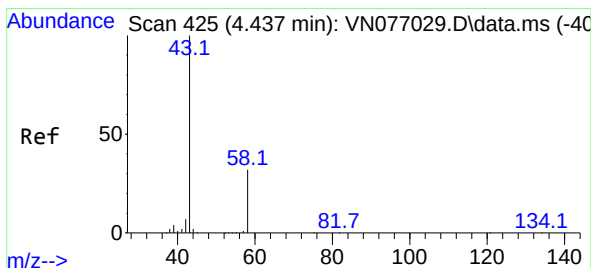
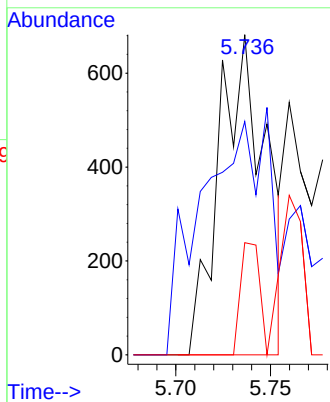
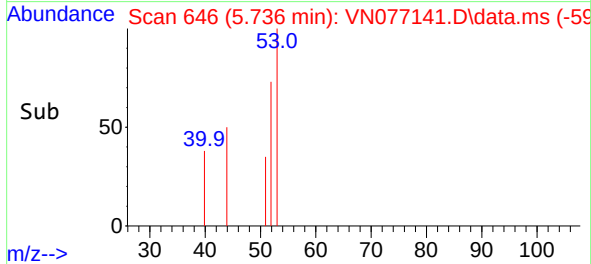


#15
Acrylonitrile
Concen: 0.401 ug/l
RT: 5.736 min Scan# 645
Delta R.T. 0.005 min
Lab File: VN077141.D
Acq: 23 Mar 2023 11:41

Instrument :
MSVOA_N
ClientSampleId :

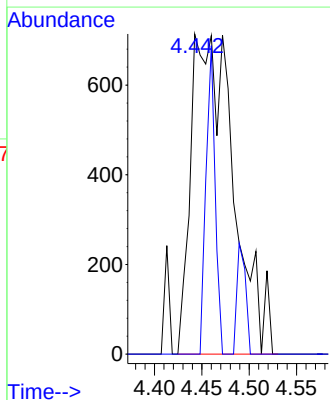
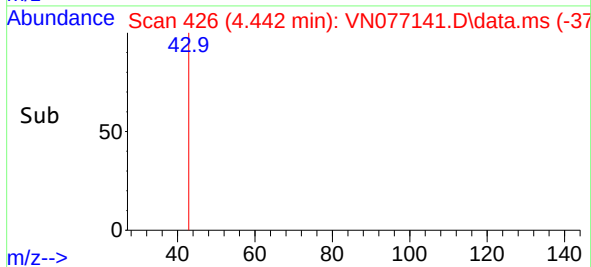
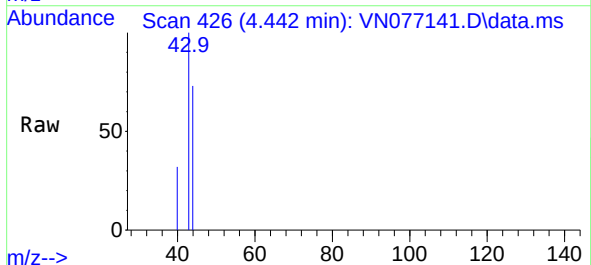


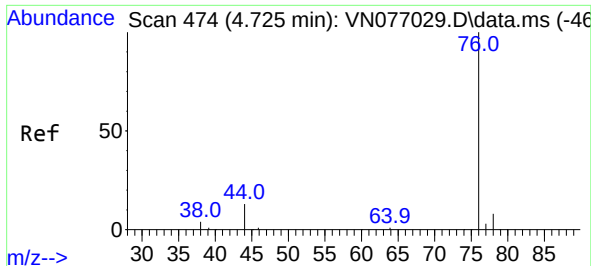
Tgt Ion: 53 Resp: 1175
Ion Ratio Lower Upper
53 100
52 0.0 64.6 97.0#
51 14.2 28.3 42.5#



#16
Acetone
Concen: 0.842 ug/l
RT: 4.442 min Scan# 426
Delta R.T. 0.005 min
Lab File: VN077141.D
Acq: 23 Mar 2023 11:41

Tgt Ion: 43 Resp: 2246
Ion Ratio Lower Upper
43 100
58 0.0 25.4 38.0#

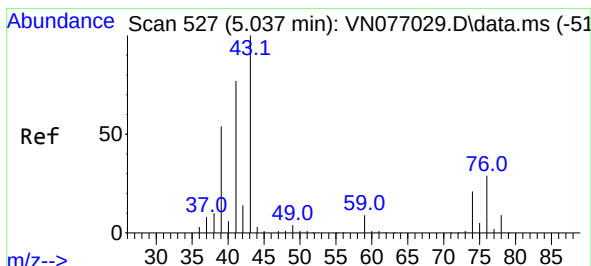
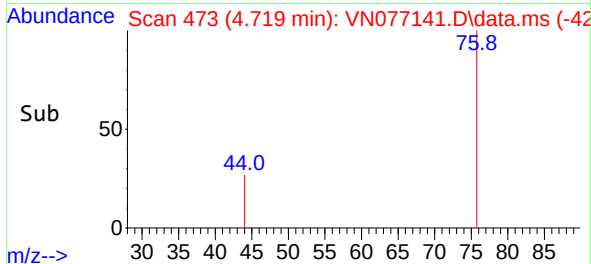
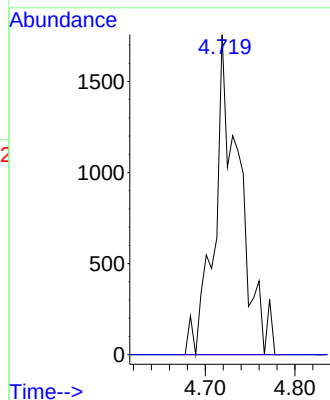
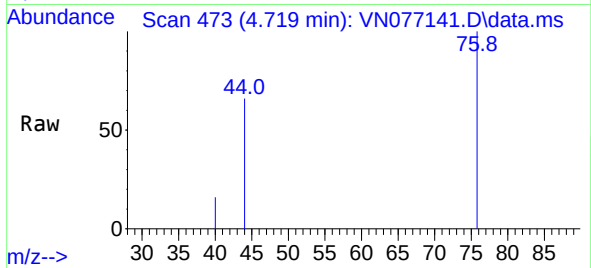




#17
Carbon Disulfide
Concen: 0.255 ug/l
RT: 4.719 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN077141.D
Acq: 23 Mar 2023 11:41

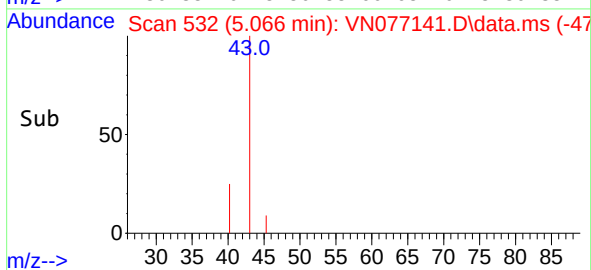
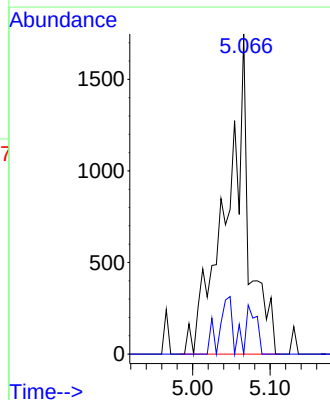
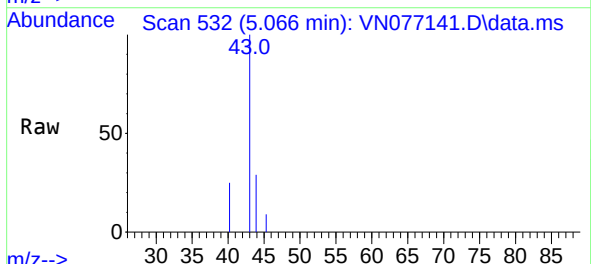
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MSVOA_N
ClientSampleId :

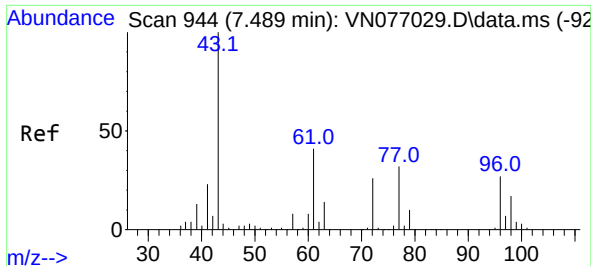
Tgt Ion: 76 Resp: 3387
Ion Ratio Lower Upper
76 100
78 0.0 6.6 10.0#



#18
Methyl Acetate
Concen: 0.364 ug/l
RT: 5.066 min Scan# 532
Delta R.T. 0.029 min
Lab File: VN077141.D
Acq: 23 Mar 2023 11:41

Tgt Ion: 43 Resp: 3656
Ion Ratio Lower Upper
43 100
74 4.5 17.7 26.5#

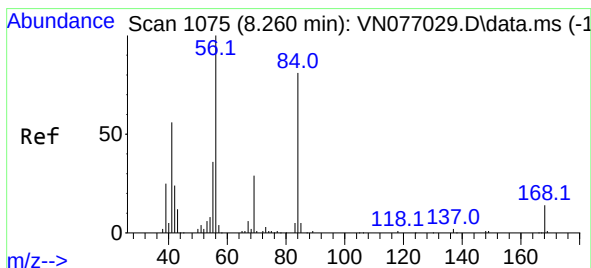
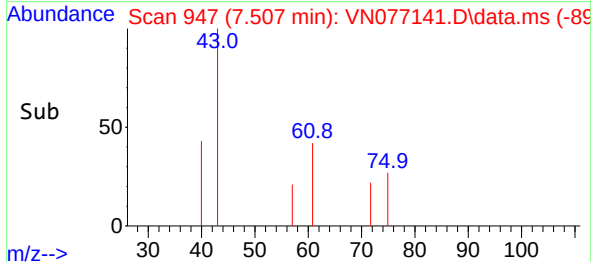
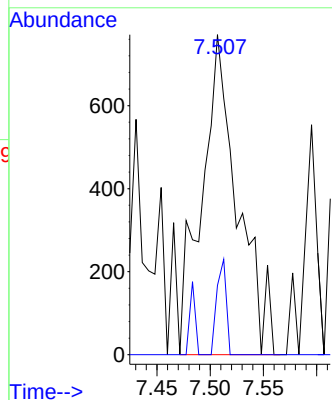
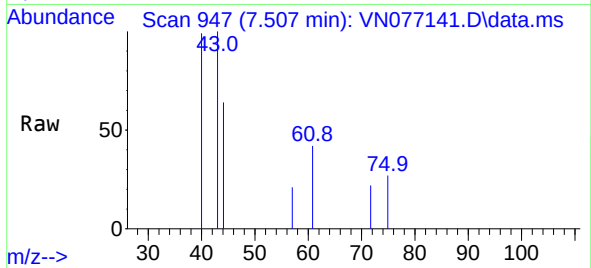




#25
2-Butanone
Concen: 0.467 ug/l
RT: 7.507 min Scan# 944
Delta R.T. 0.018 min
Lab File: VN077141.D
Acq: 23 Mar 2023 11:41

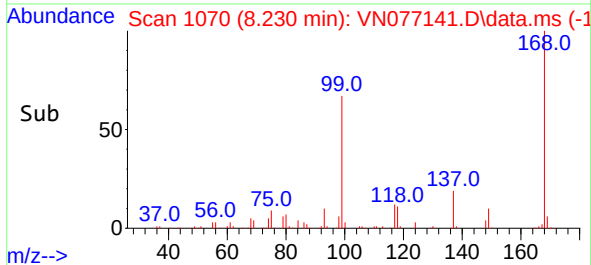
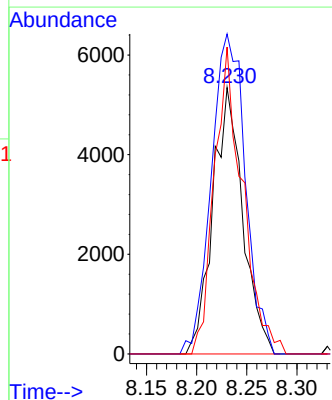
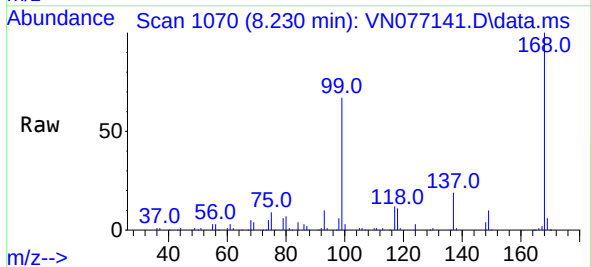
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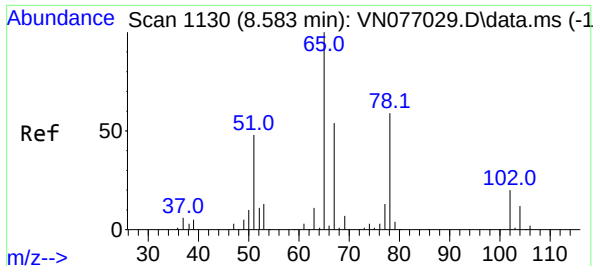
Tgt Ion: 43 Resp: 1822
Ion Ratio Lower Upper
43 100
72 21.7 20.7 31.1



#31
Cyclohexane
Concen: 1.134 ug/l
RT: 8.230 min Scan# 1070
Delta R.T. -0.030 min
Lab File: VN077141.D
Acq: 23 Mar 2023 11:41

Tgt Ion: 56 Resp: 11104
Ion Ratio Lower Upper
56 100
69 120.1 22.8 34.2#
84 115.2 64.7 97.1#

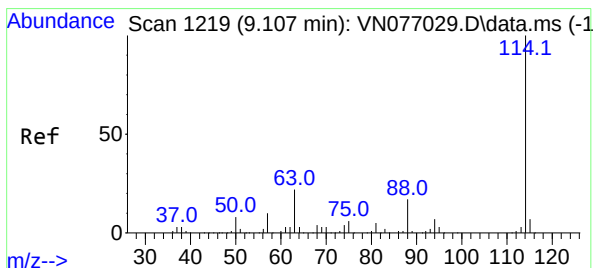
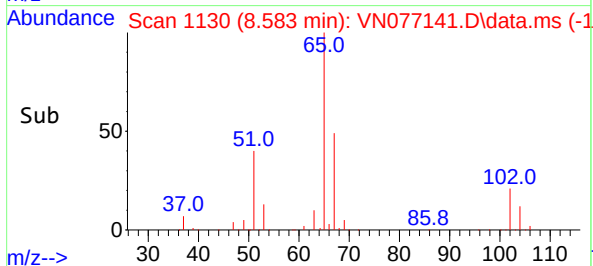
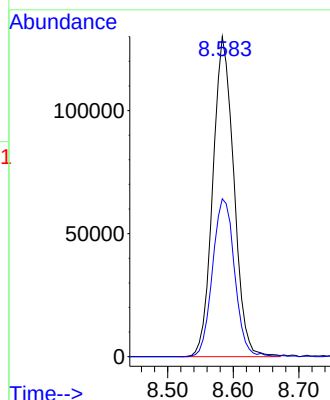
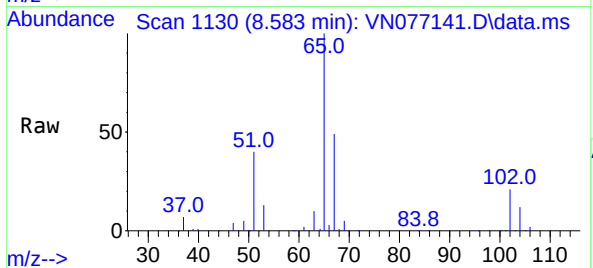




#33
1,2-Dichloroethane-d4
Concen: 48.348 ug/l
RT: 8.583 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VN077141.D
Acq: 23 Mar 2023 11:41

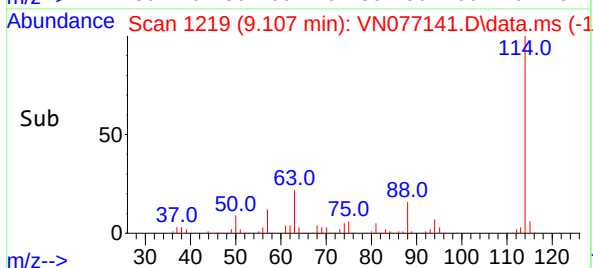
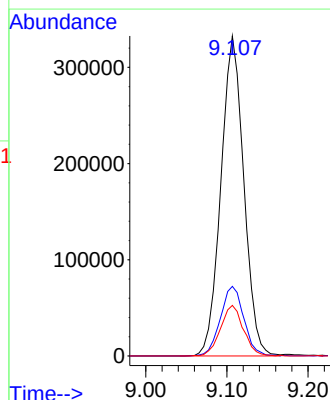
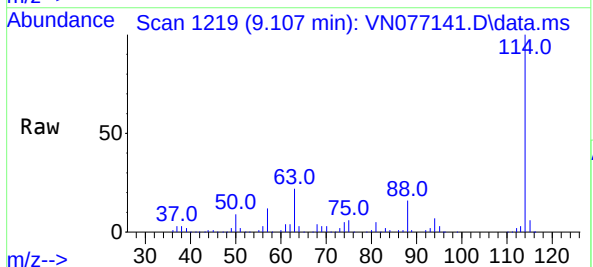
Instrument :
MSVOA_N
ClientSampleId :

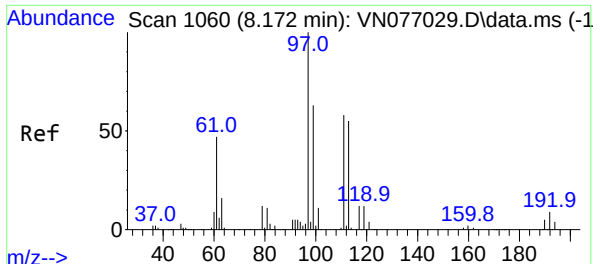
Tgt Ion: 65 Resp: 289331
Ion Ratio Lower Upper
65 100
67 51.7 0.0 105.2



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.107 min Scan# 1219
Delta R.T. -0.000 min
Lab File: VN077141.D
Acq: 23 Mar 2023 11:41

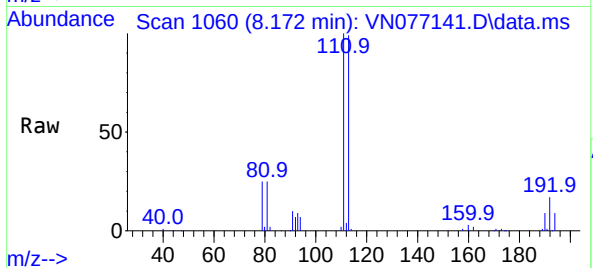
Tgt Ion:114 Resp: 652380
Ion Ratio Lower Upper
114 100
63 21.8 0.0 44.6
88 15.8 0.0 33.8



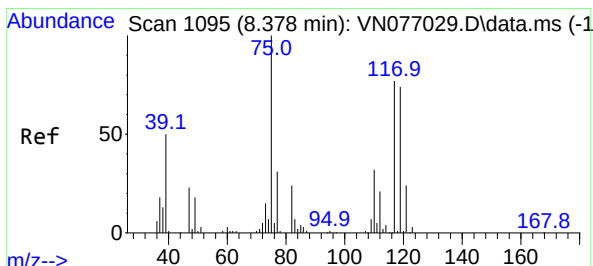
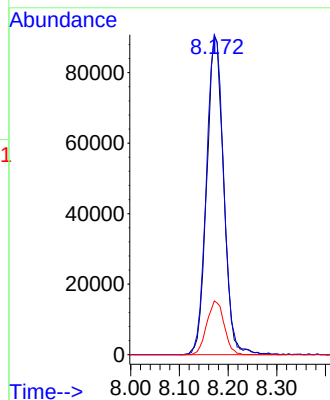
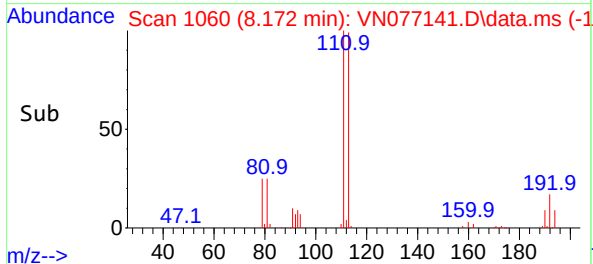


#35
Dibromofluoromethane
Concen: 47.647 ug/l
RT: 8.172 min Scan# 1060
Delta R.T. -0.000 min
Lab File: VN077141.D
Acq: 23 Mar 2023 11:41

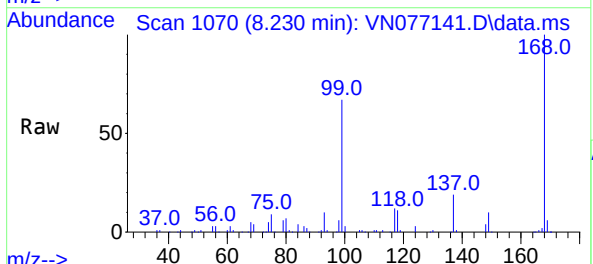
Instrument :
MSVOA_N
ClientSampleId :



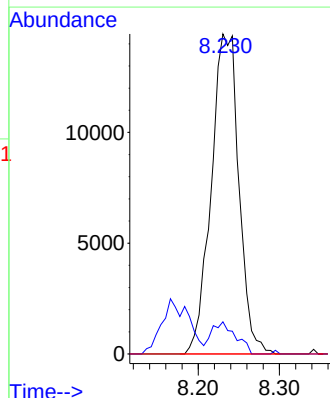
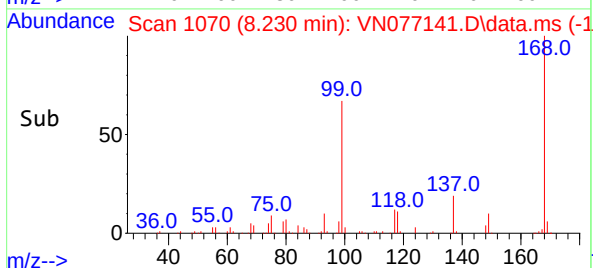
Tgt Ion:113 Resp: 217687
Ion Ratio Lower Upper
113 100
111 102.8 82.2 123.2
192 17.3 13.0 19.6

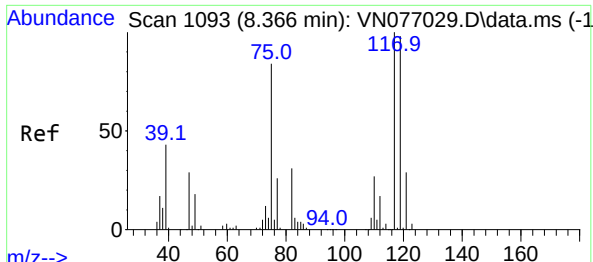


#36
1,1-Dichloropropene
Concen: 4.799 ug/l
RT: 8.230 min Scan# 1070
Delta R.T. -0.147 min
Lab File: VN077141.D
Acq: 23 Mar 2023 11:41



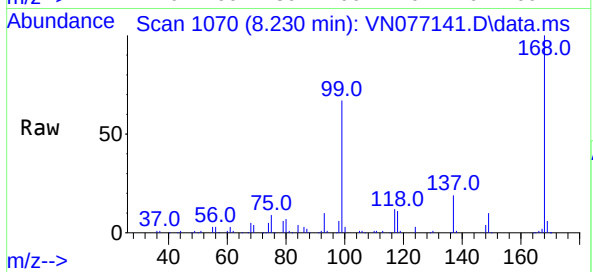
Tgt Ion: 75 Resp: 34246
Ion Ratio Lower Upper
75 100
110 8.7 15.9 47.7#
77 0.0 24.3 36.5#



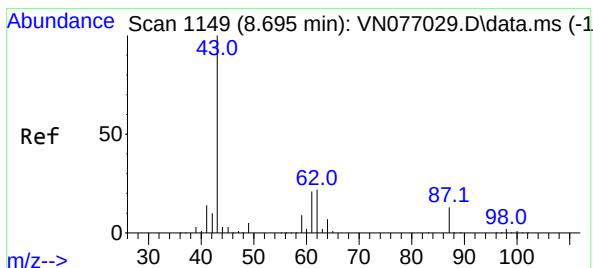
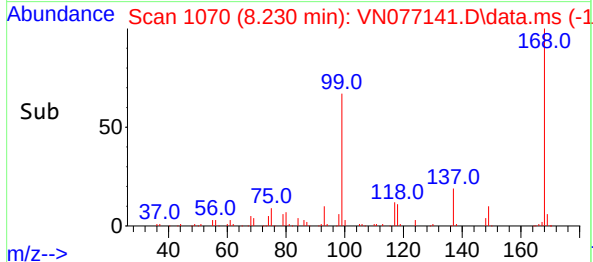
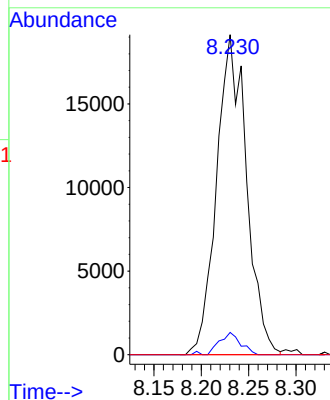


#38
Carbon Tetrachloride
Concen: 6.035 ug/l
RT: 8.230 min Scan# 1107
Delta R.T. -0.135 min
Lab File: VN077141.D
Acq: 23 Mar 2023 11:41

Instrument :
MSVOA_N
ClientSampleId :

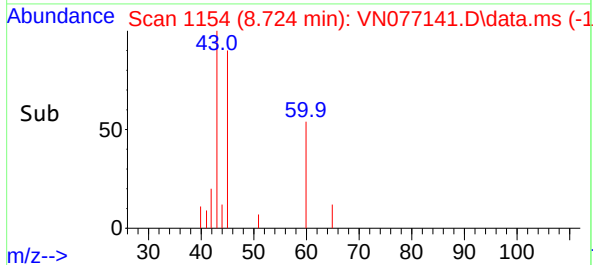
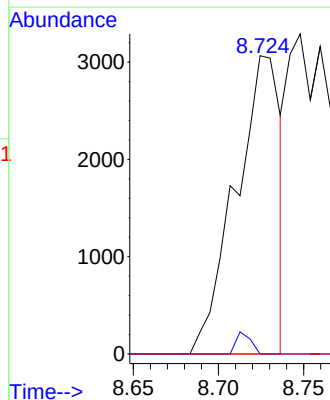
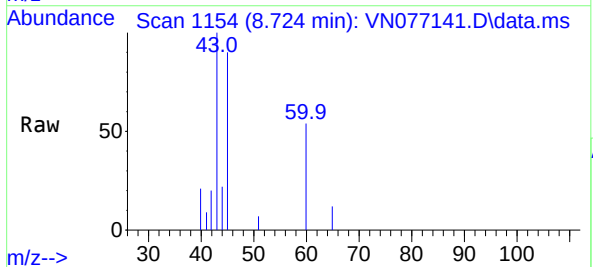


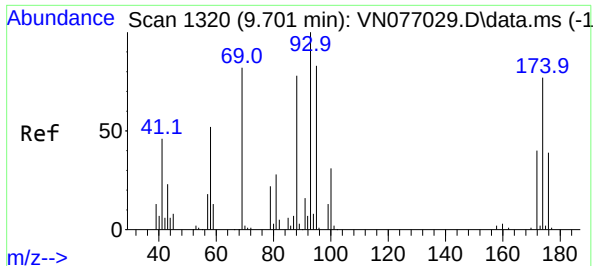
Tgt Ion:117 Resp: 41945
Ion Ratio Lower Upper
117 100
119 7.0 78.2 117.2#
121 0.0 23.2 34.8#



#43
Isopropyl Acetate
Concen: 0.470 ug/l
RT: 8.724 min Scan# 1154
Delta R.T. 0.029 min
Lab File: VN077141.D
Acq: 23 Mar 2023 11:41

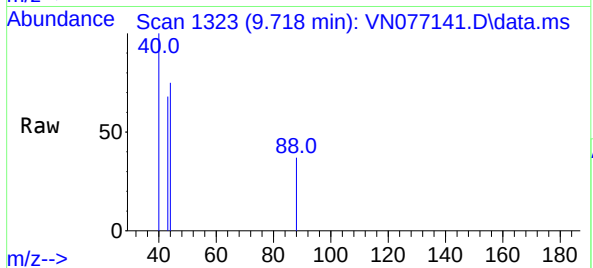
Tgt Ion: 43 Resp: 5601
Ion Ratio Lower Upper
43 100
61 0.0 20.6 30.8#
87 0.0 10.0 15.0#



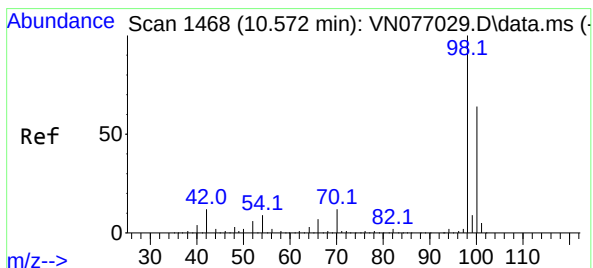
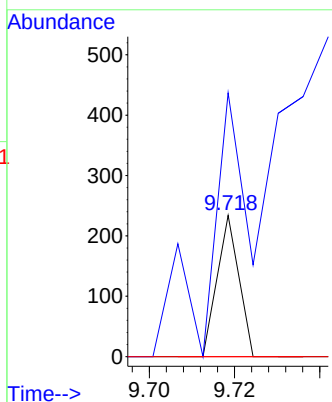
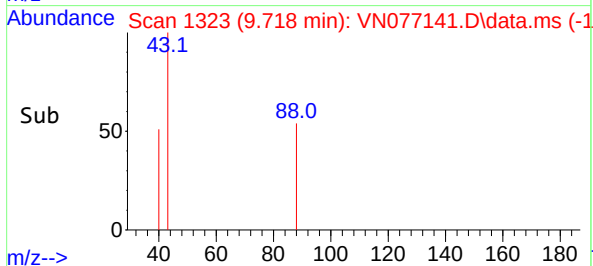


#49
1,4-Dioxane
Concen: 0.852 ug/l
RT: 9.718 min Scan# 11
Delta R.T. 0.017 min
Lab File: VN077141.D
Acq: 23 Mar 2023 11:41

Instrument :
MSVOA_N
ClientSampleId :

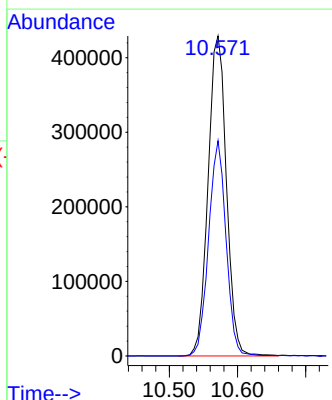
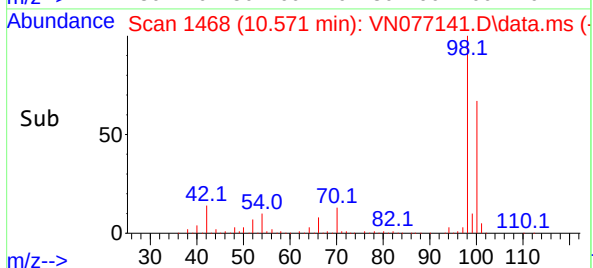
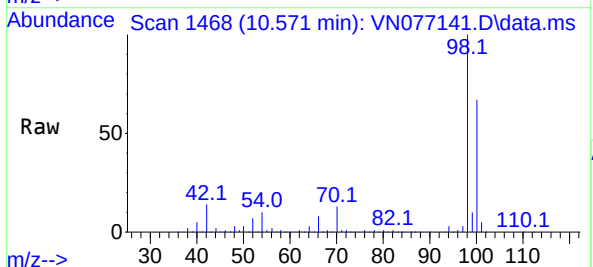


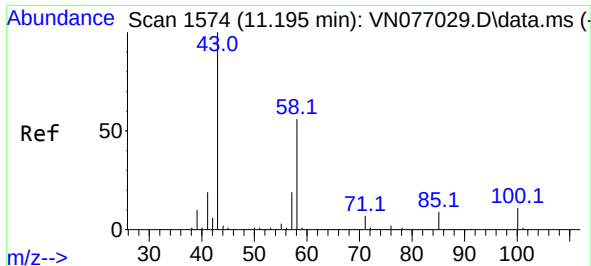
Tgt Ion: 88 Resp: 83
Ion Ratio Lower Upper
88 100
43 0.0 22.2 33.2#
58 0.0 60.8 91.2#



#50
Toluene-d8
Concen: 49.332 ug/l
RT: 10.571 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VN077141.D
Acq: 23 Mar 2023 11:41

Tgt Ion: 98 Resp: 805106
Ion Ratio Lower Upper
98 100
100 64.0 51.6 77.4

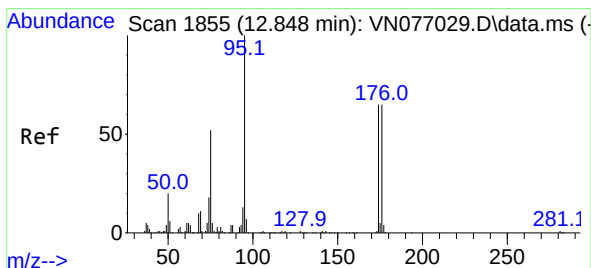
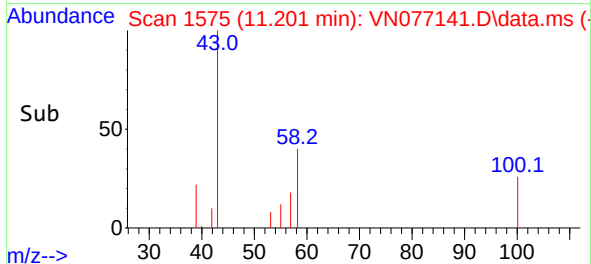
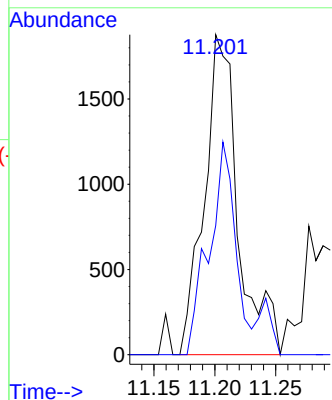
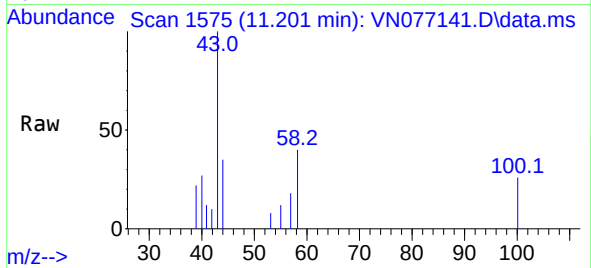




#59
2-Hexanone
Concen: 0.675 ug/l
RT: 11.201 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN077141.D
Acq: 23 Mar 2023 11:41

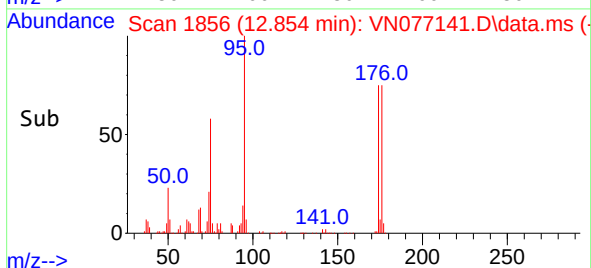
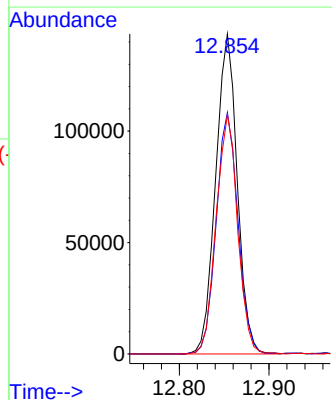
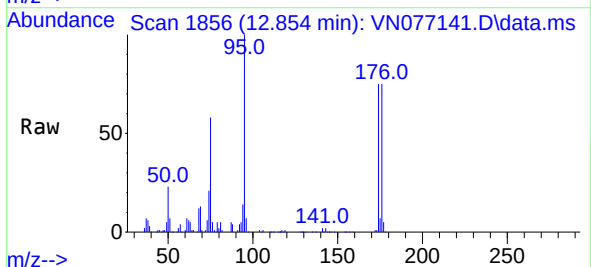
Instrument :
MSVOA_N
ClientSampleId :

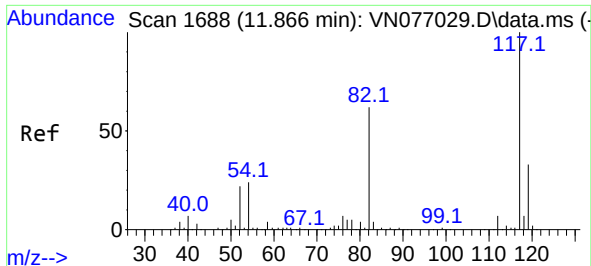
Tgt Ion: 43 Resp: 3637
Ion Ratio Lower Upper
43 100
58 52.0 27.7 83.1



#62
4-Bromofluorobenzene
Concen: 41.556 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077141.D
Acq: 23 Mar 2023 11:41

Tgt Ion: 95 Resp: 239647
Ion Ratio Lower Upper
95 100
174 76.2 0.0 136.6
176 74.5 0.0 130.0

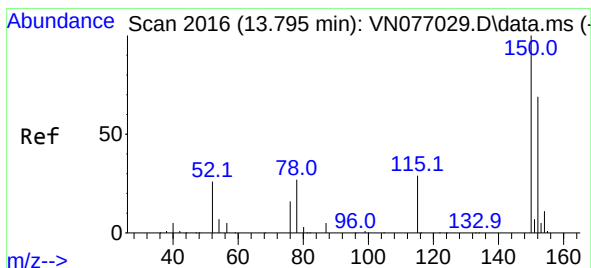
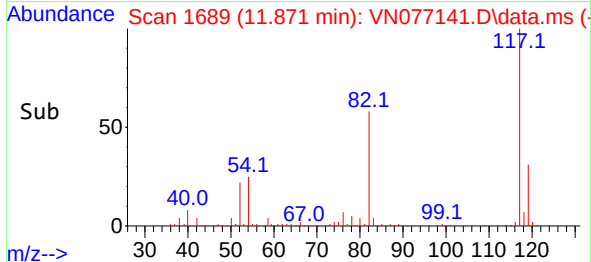
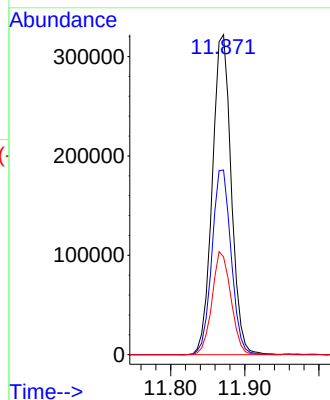
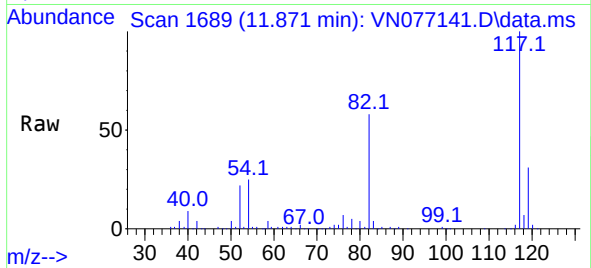




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 11
Delta R.T. 0.005 min
Lab File: VN077141.D
Acq: 23 Mar 2023 11:41

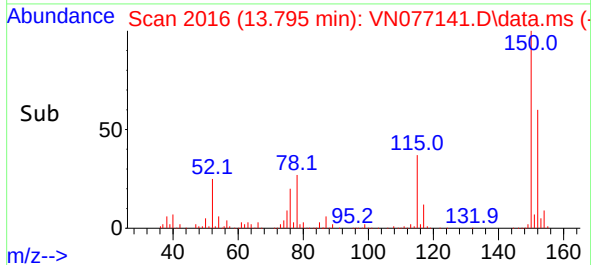
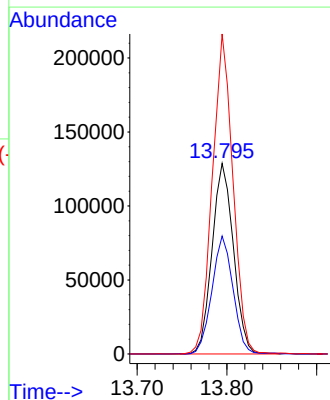
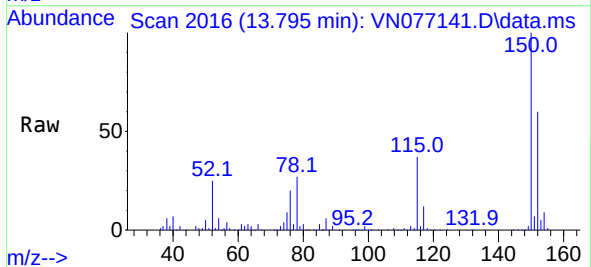
Instrument :
MSVOA_N
ClientSampleId :

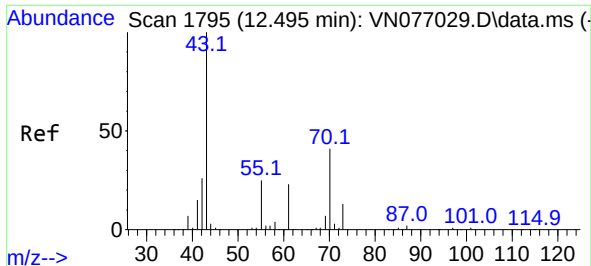
Tgt Ion:117 Resp: 571064
Ion Ratio Lower Upper
117 100
82 57.7 49.4 74.0
119 30.6 26.5 39.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN077141.D
Acq: 23 Mar 2023 11:41

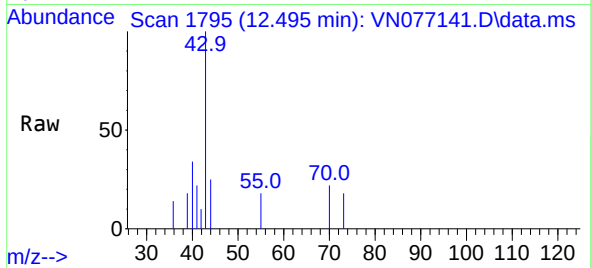
Tgt Ion:152 Resp: 212970
Ion Ratio Lower Upper
152 100
115 61.3 31.9 95.7
150 161.6 0.0 348.0



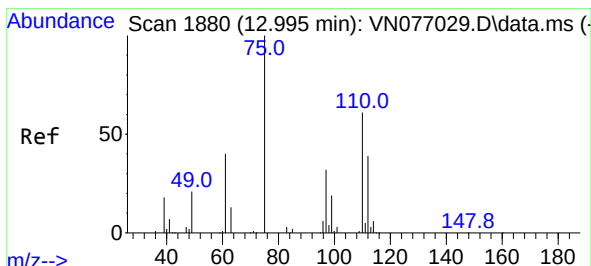
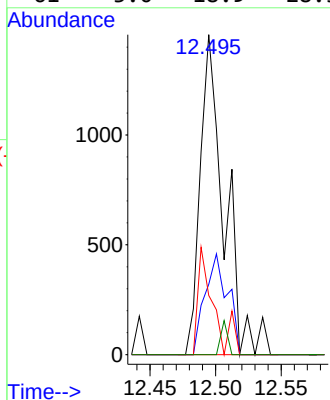
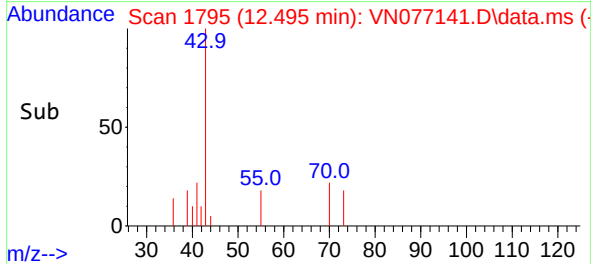


#74
N-amy1 acetate
Concen: 0.224 ug/l
RT: 12.495 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN077141.D
Acq: 23 Mar 2023 11:41

Instrument :
MSVOA_N
ClientSampleId :

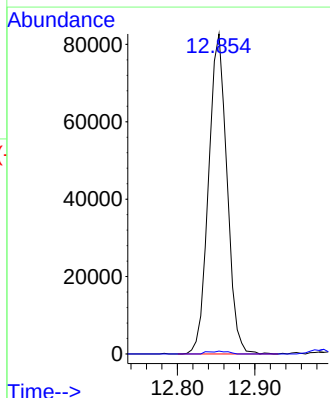
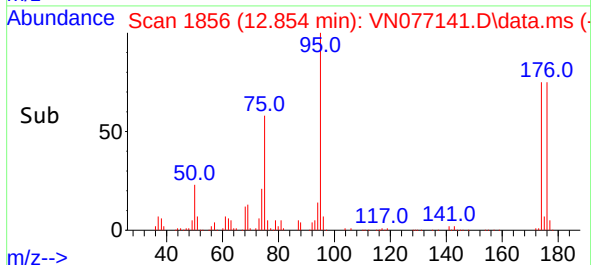
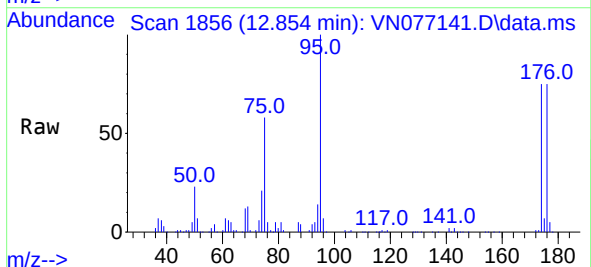


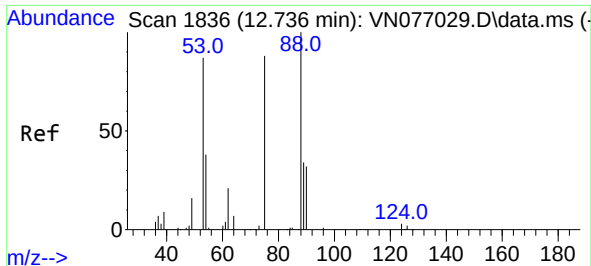
Tgt Ion:	43	Resp:	1850
Ion	Ratio	Lower	Upper
43	100		
70	29.8	33.6	50.4#
55	22.2	20.3	30.5
61	3.0	18.9	28.3#



#76
1,2,3-Trichloropropane
Concen: 24.755 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN077141.D
Acq: 23 Mar 2023 11:41

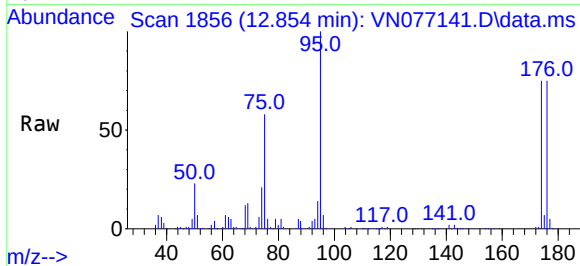
Tgt Ion:	75	Resp:	136368
Ion	Ratio	Lower	Upper
75	100		
77	1.0	107.3	322.0#



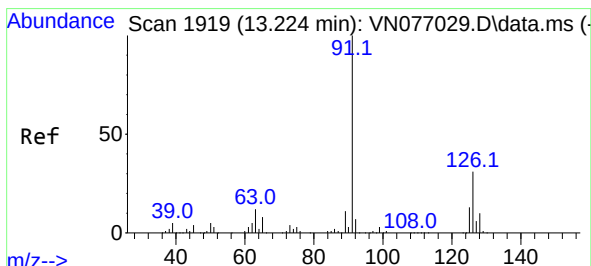
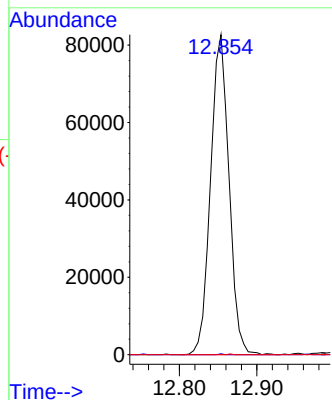
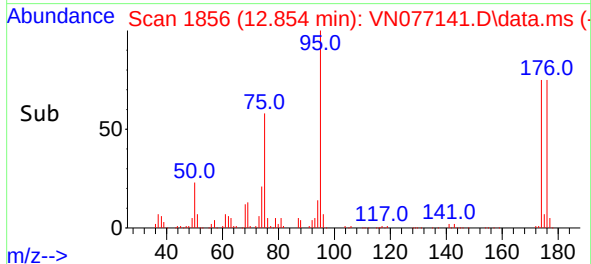


#81
trans-1,4-Dichloro-2-butene
Concen: 68.139 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.118 min
Lab File: VN077141.D
Acq: 23 Mar 2023 11:41

Instrument :
MSVOA_N
ClientSampleId :

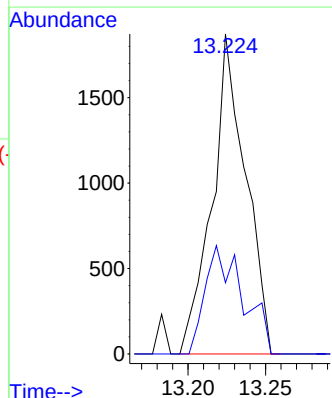
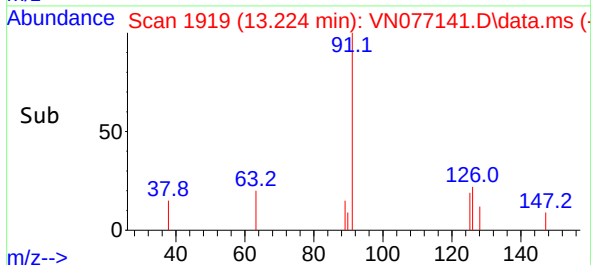
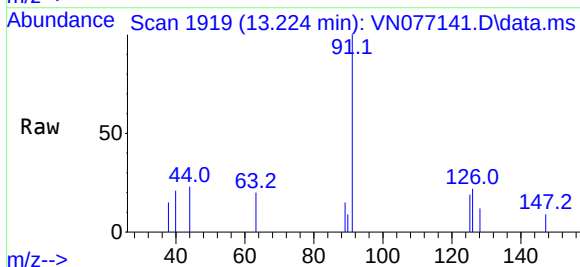


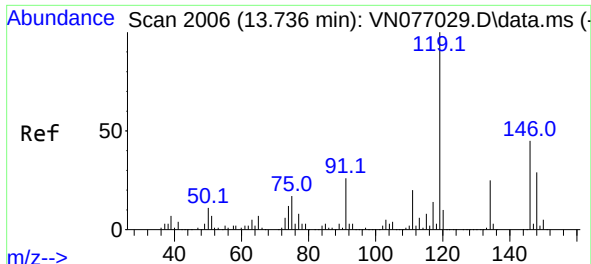
Tgt Ion: 75 Resp: 136368
Ion Ratio Lower Upper
75 100
53 0.1 80.8 121.2#
89 0.1 34.2 51.4#



#82
4-Chlorotoluene
Concen: 0.211 ug/l
RT: 13.224 min Scan# 1919
Delta R.T. -0.000 min
Lab File: VN077141.D
Acq: 23 Mar 2023 11:41

Tgt Ion: 91 Resp: 2823
Ion Ratio Lower Upper
91 100
126 38.1 15.5 46.5





#87

1,3-Dichlorobenzene

Concen: 0.313 ug/l

RT: 13.742 min Scan# 2007

Delta R.T. 0.006 min

Lab File: VN077141.D

Acq: 23 Mar 2023 11:41

Instrument :

MSVOA_N

ClientSampleId :

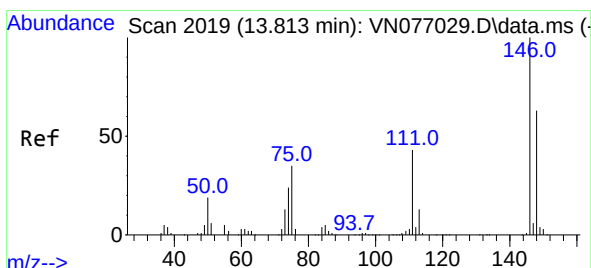
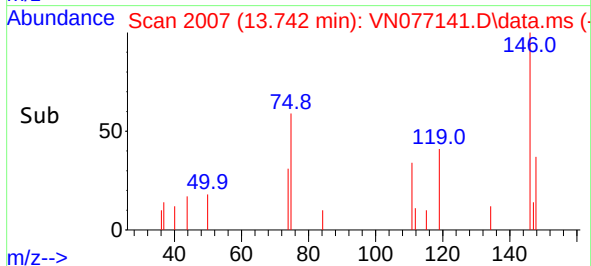
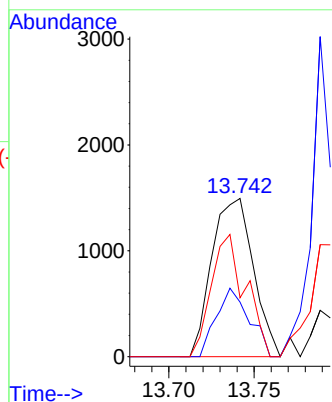
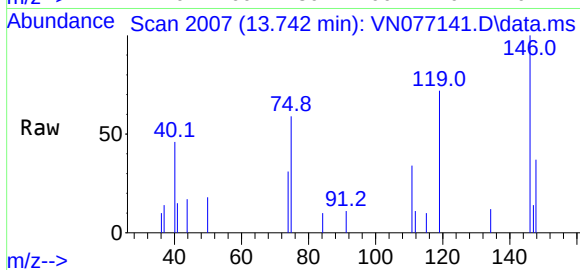
Tgt Ion:146 Resp: 2529

Ion Ratio Lower Upper

146 100

111 34.4 21.9 65.5

148 63.8 32.1 96.5



#88

1,4-Dichlorobenzene

Concen: 0.315 ug/l

RT: 13.742 min Scan# 2007

Delta R.T. -0.071 min

Lab File: VN077141.D

Acq: 23 Mar 2023 11:41

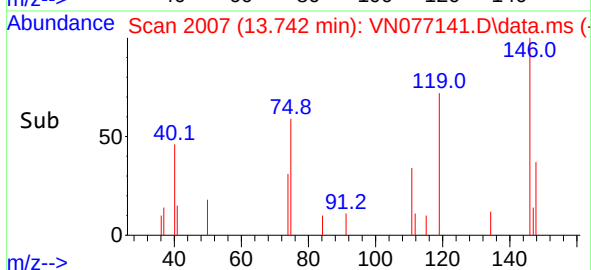
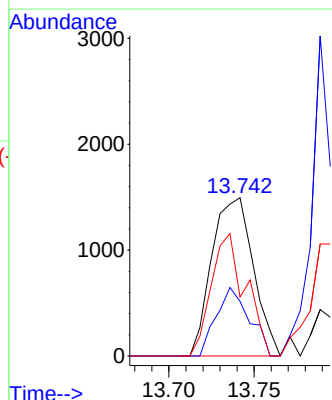
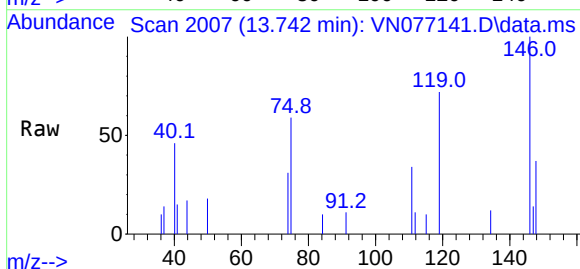
Tgt Ion:146 Resp: 2529

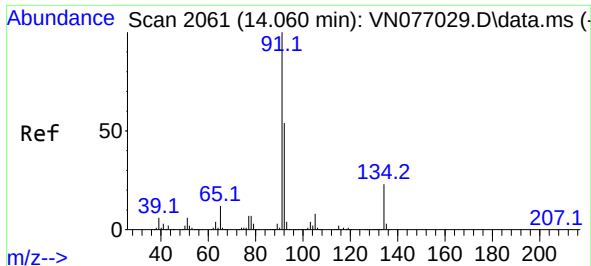
Ion Ratio Lower Upper

146 100

111 34.4 21.5 64.5

148 63.8 31.9 95.9





#89

n-Butylbenzene

Concen: 0.227 ug/l

RT: 14.065 min Scan# 2061

Delta R.T. 0.005 min

Lab File: VN077141.D

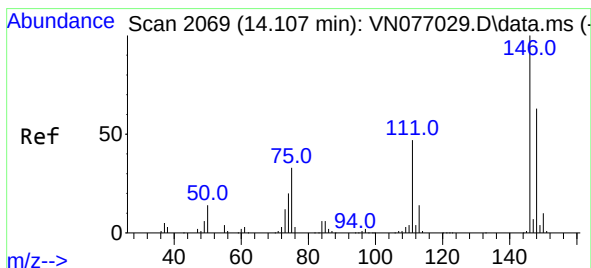
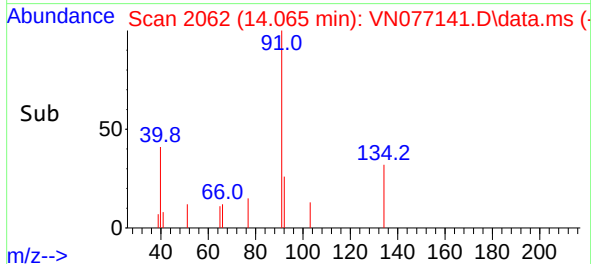
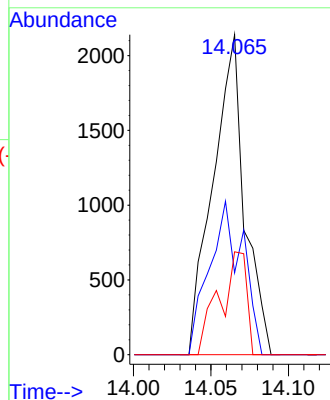
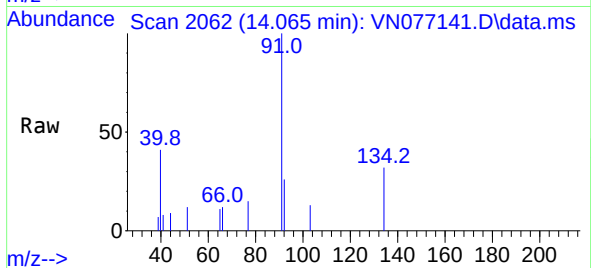
Acq: 23 Mar 2023 11:41

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion: 91	Resp:	3039
Ion	Ratio	Lower Upper
91	100	
92	50.7	26.5 79.5
134	27.3	11.7 35.1



#91

1,2-Dichlorobenzene

Concen: 0.254 ug/l

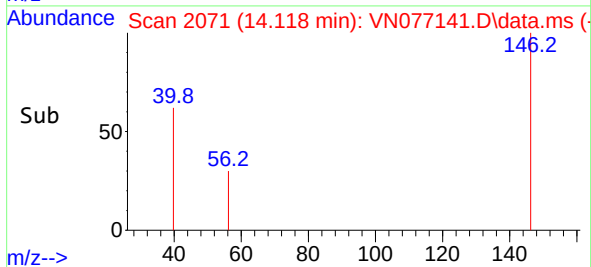
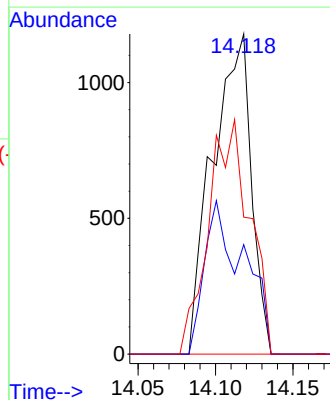
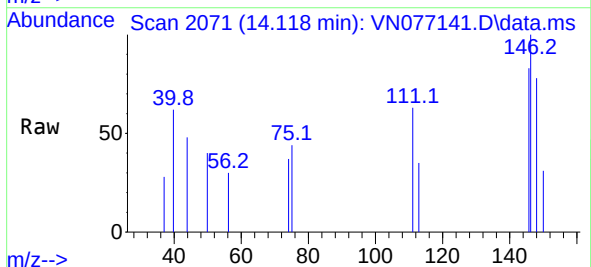
RT: 14.118 min Scan# 2071

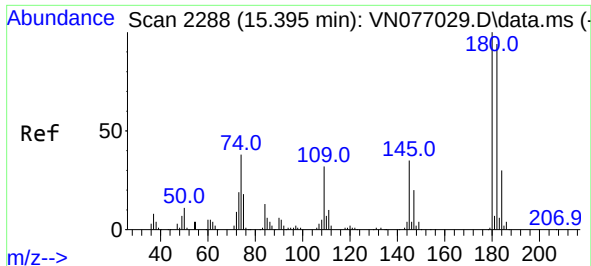
Delta R.T. 0.011 min

Lab File: VN077141.D

Acq: 23 Mar 2023 11:41

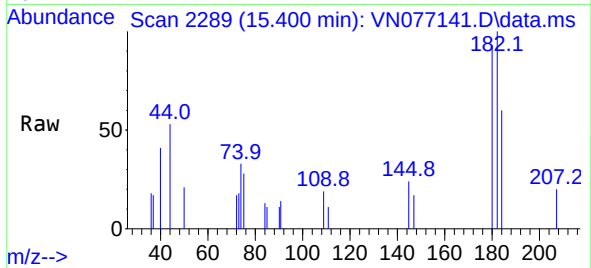
Tgt Ion: 146	Resp:	2043
Ion	Ratio	Lower Upper
146	100	
111	48.5	22.6 67.7
148	77.7	31.6 95.0



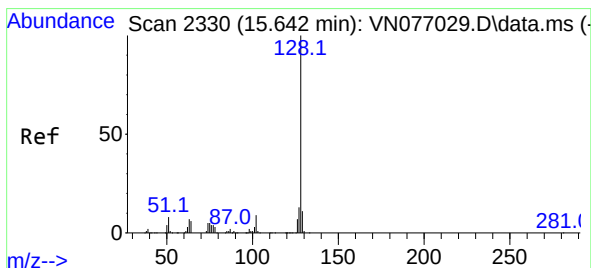
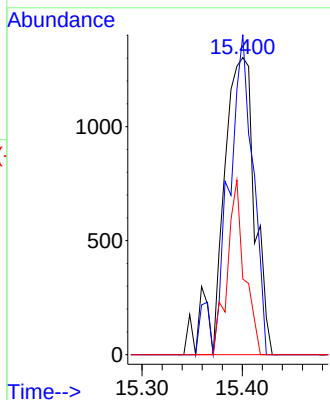
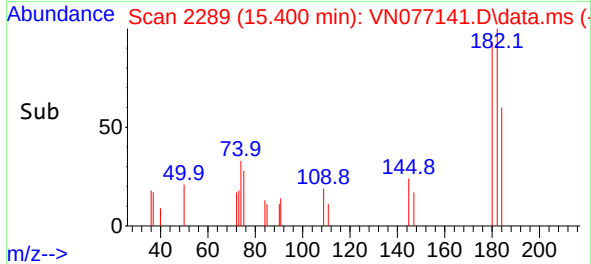


#93
1,2,4-Trichlorobenzene
Concen: 0.795 ug/l
RT: 15.400 min Scan# 21
Delta R.T. 0.005 min
Lab File: VN077141.D
Acq: 23 Mar 2023 11:41

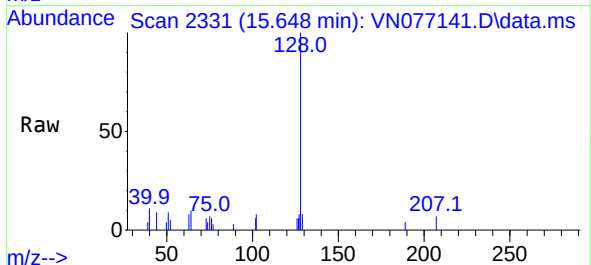
Instrument :
MSVOA_N
ClientSampleId :



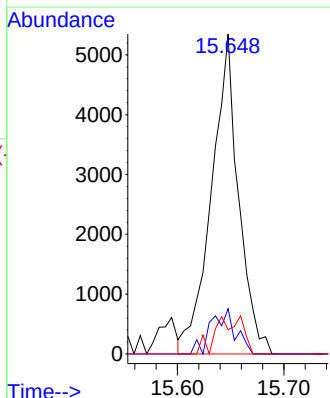
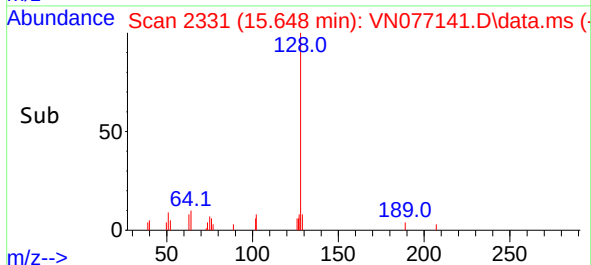
Tgt Ion:180 Resp: 2893
Ion Ratio Lower Upper
180 100
182 83.9 47.3 141.9
145 31.4 16.9 50.7

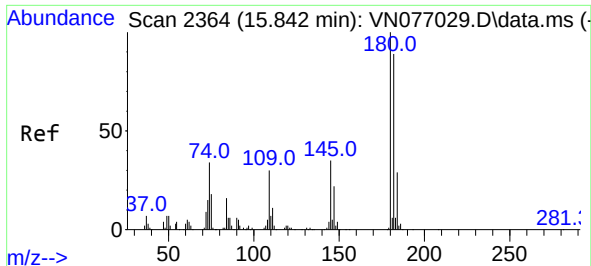


#95
Naphthalene
Concen: 2.553 ug/l
RT: 15.648 min Scan# 2331
Delta R.T. 0.006 min
Lab File: VN077141.D
Acq: 23 Mar 2023 11:41



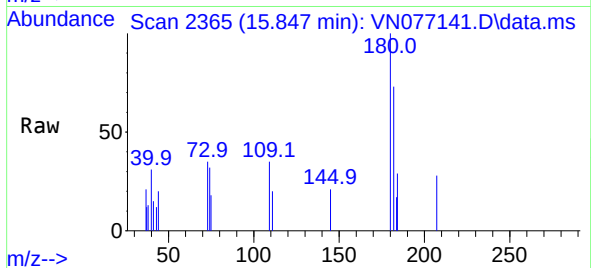
Tgt Ion:128 Resp: 9426
Ion Ratio Lower Upper
128 100
127 12.8 10.0 15.0
129 11.8 8.6 13.0





#96
 1,2,3-Trichlorobenzene
 Concen: 0.747 ug/l
 RT: 15.847 min Scan# 21
 Delta R.T. 0.005 min
 Lab File: VN077141.D
 Acq: 23 Mar 2023 11:41

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	2729
Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.4	142.2
145	29.1	17.9	53.8

