

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN053023\
 Data File : VN077975.D
 Acq On : 30 May 2023 17:27
 Operator : JC\MD
 Sample : 02911-20
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TT149S1-20230522

Quant Time: May 31 02:10:04 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051523W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 16 04:07:42 2023
 Response via : Initial Calibration

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

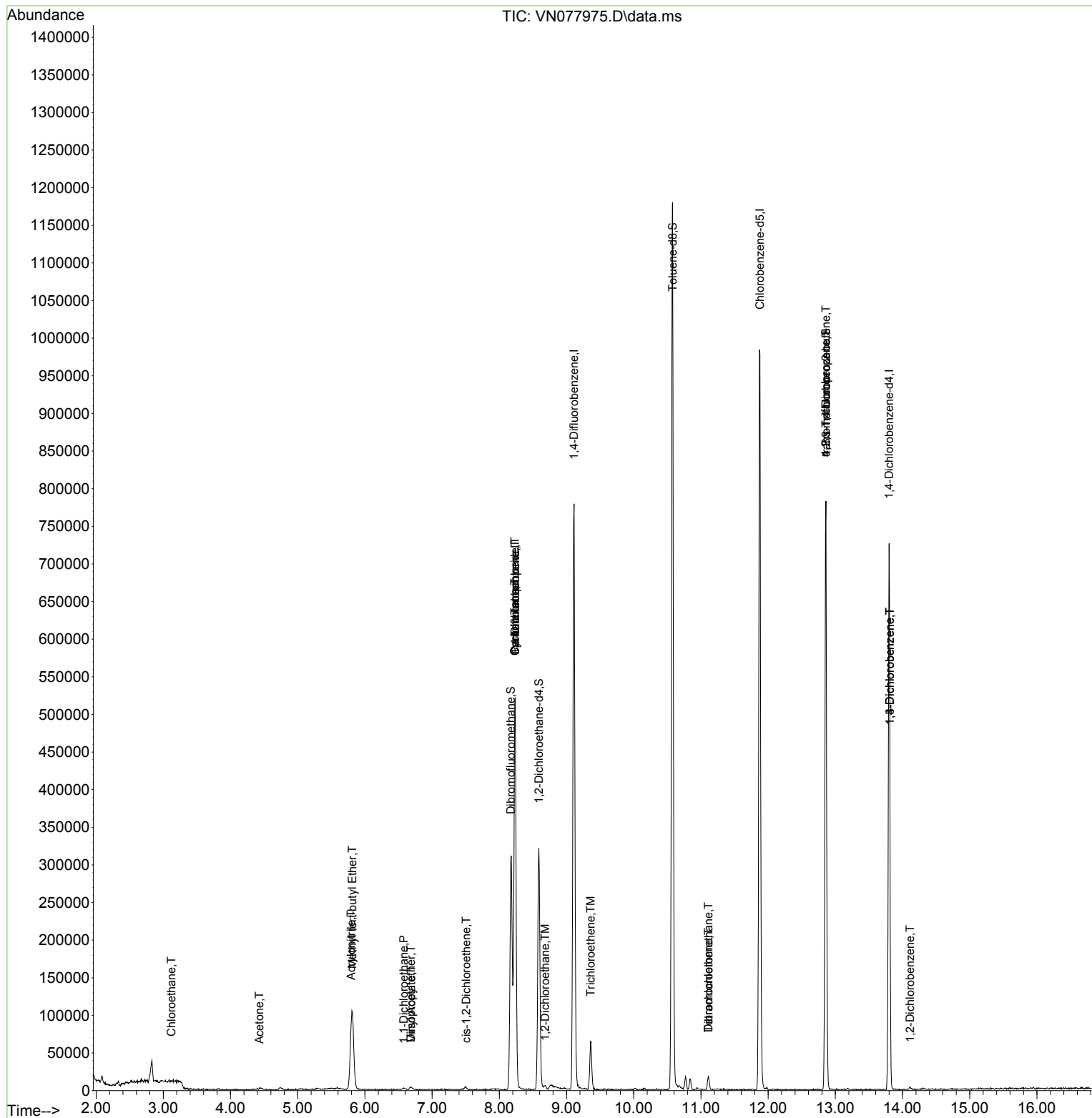
Internal Standards						
1) Pentafluorobenzene	8.236	168	375965	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	686100	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.876	117	603969	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	190648	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	263592	46.857	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	93.720%
35) Dibromofluoromethane	8.171	113	229555	51.309	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	102.620%
50) Toluene-d8	10.577	98	854066	49.595	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	99.200%
62) 4-Bromofluorobenzene	12.859	95	276317	45.432	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	90.860%
Target Compounds						
					Qvalue	
3) Chloromethane	2.377	50	1497	Below Cal		96
6) Chloroethane	3.118	64	804	0.207 ug/l		91
13) Acrolein	4.448	56	57	Below Cal	#	16
15) Acrylonitrile	5.795	53	1781	0.859 ug/l	#	33
16) Acetone	4.430	43	1350	0.763 ug/l	#	40
19) Methyl tert-butyl Ether	5.812	73	176084	12.302 ug/l		99
20) Methylene Chloride	5.277	84	262	Below Cal	#	13
22) Diisopropyl ether	6.683	45	3474	0.255 ug/l	#	90
23) Vinyl Acetate	6.689	43	1982	0.235 ug/l	#	62
24) 1,1-Dichloroethane	6.577	63	2178	0.261 ug/l	#	81
27) cis-1,2-Dichloroethene	7.506	96	1942	0.365 ug/l	#	18
31) Cyclohexane	8.230	56	8628	1.128 ug/l	#	27
36) 1,1-Dichloropropene	8.236	75	32151	4.913 ug/l	#	49
38) Carbon Tetrachloride	8.230	117	40730	6.164 ug/l	#	17
42) 1,2-Dichloroethane	8.683	62	3803	0.542 ug/l		78
44) Trichloroethene	9.359	130	21450	4.387 ug/l		81
60) Dibromochloromethane	11.112	129	4170	0.846 ug/l	#	11
64) Tetrachloroethene	11.112	164	3980	0.942 ug/l		84
76) 1,2,3-Trichloropropane	12.859	75	146883	30.764 ug/l	#	1
81) trans-1,4-Dichloro-2-b...	12.859	75	146883	98.338 ug/l	#	15
87) 1,3-Dichlorobenzene	13.812	146	1911	0.276 ug/l	#	55
88) 1,4-Dichlorobenzene	13.812	146	1911	0.278 ug/l	#	57
91) 1,2-Dichlorobenzene	14.112	146	1774	0.274 ug/l		87

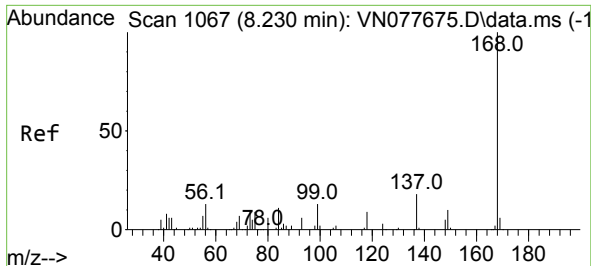
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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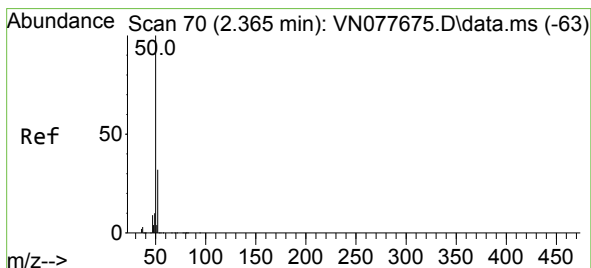
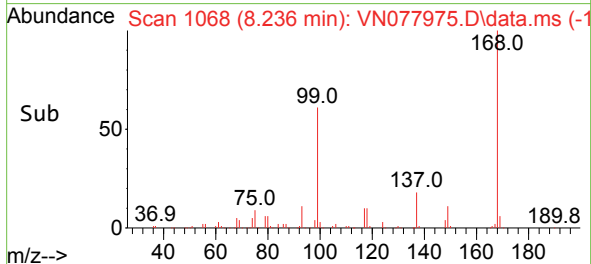
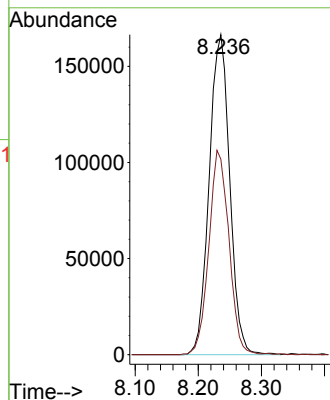
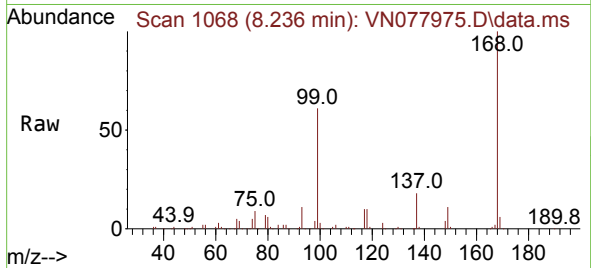




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN077975.D
Acq: 30 May 2023 17:27

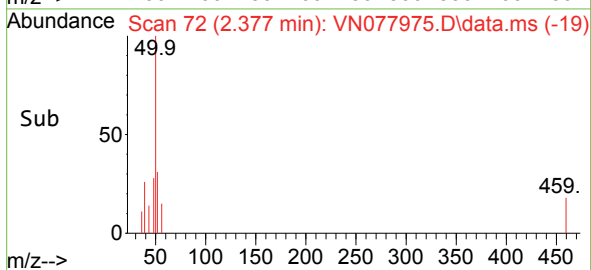
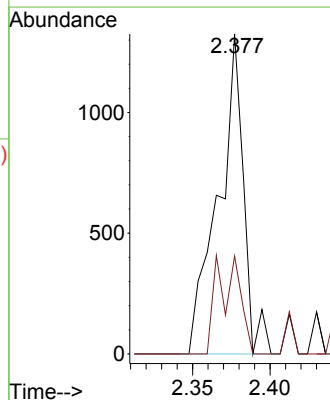
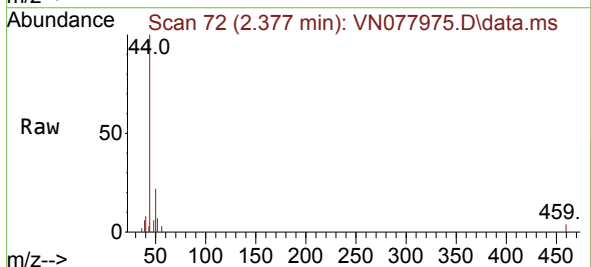
Instrument :
MSVOA_N
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TT149S1-20230522

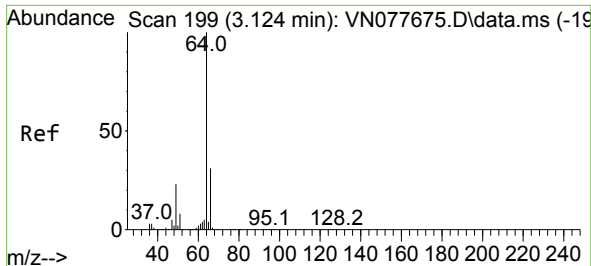
Tgt Ion:168 Resp: 375965
Ion Ratio Lower Upper
168 100
99 61.1 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.377 min Scan# 72
Delta R.T. 0.012 min
Lab File: VN077975.D
Acq: 30 May 2023 17:27

Tgt Ion: 50 Resp: 1497
Ion Ratio Lower Upper
50 100
52 30.6 26.5 39.7

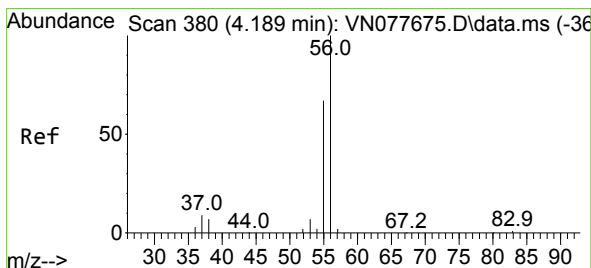
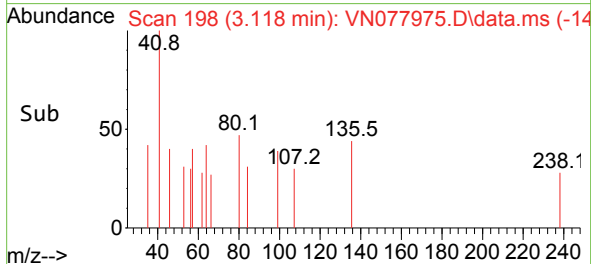
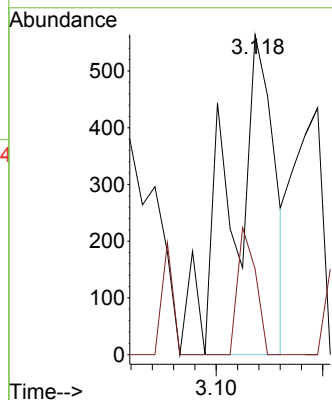
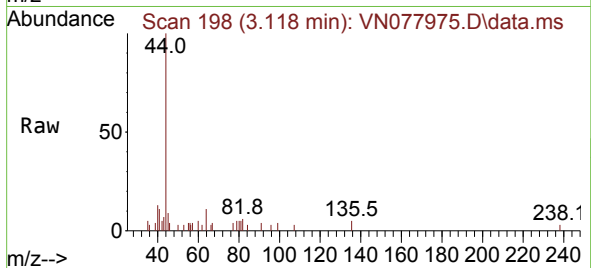




#6
Chloroethane
Concen: 0.207 ug/l
RT: 3.118 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN077975.D
Acq: 30 May 2023 17:27

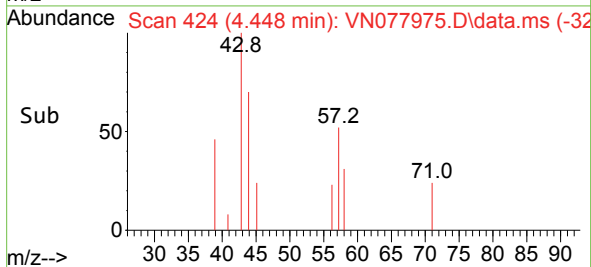
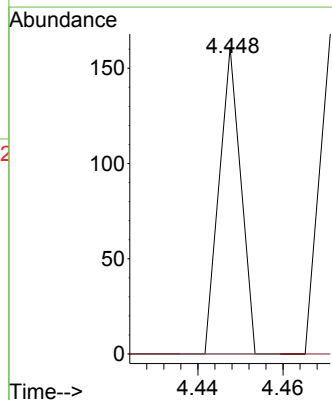
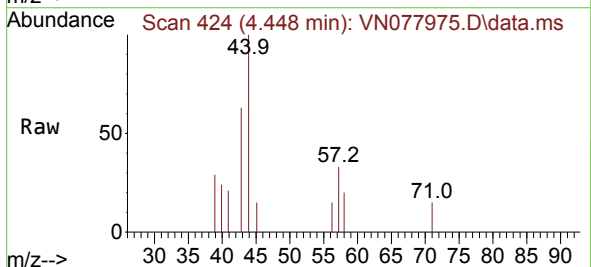
Instrument :
MSVOA_N
ClientSampleId :
TT149S1-20230522

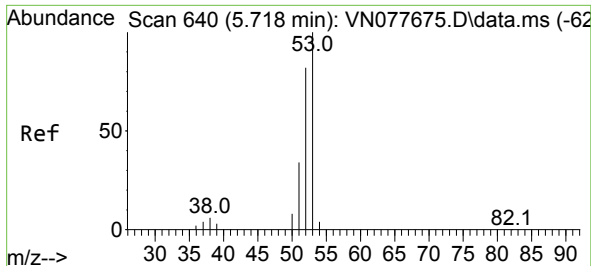
Tgt Ion: 64 Resp: 804
Ion Ratio Lower Upper
64 100
66 26.8 25.4 38.2



#13
Acrolein
Concen: Below Cal
RT: 4.448 min Scan# 424
Delta R.T. 0.259 min
Lab File: VN077975.D
Acq: 30 May 2023 17:27

Tgt Ion: 56 Resp: 57
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#

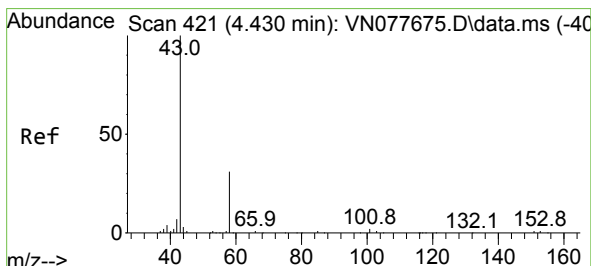
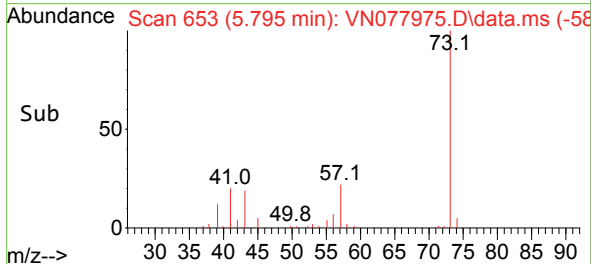
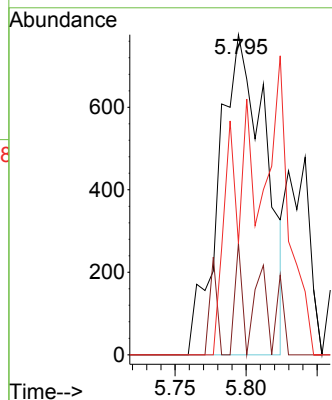
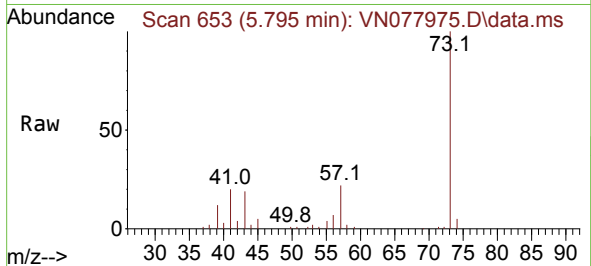




#15
Acrylonitrile
Concen: 0.859 ug/l
RT: 5.795 min Scan# 61
Delta R.T. 0.077 min
Lab File: VN077975.D
Acq: 30 May 2023 17:27

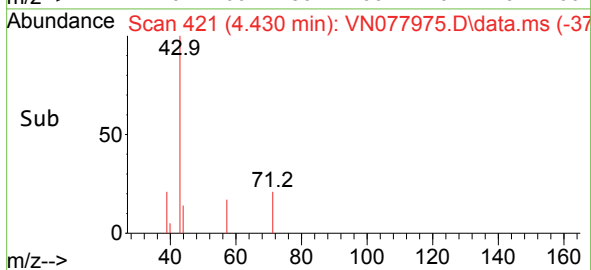
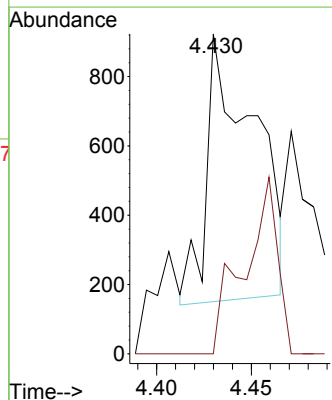
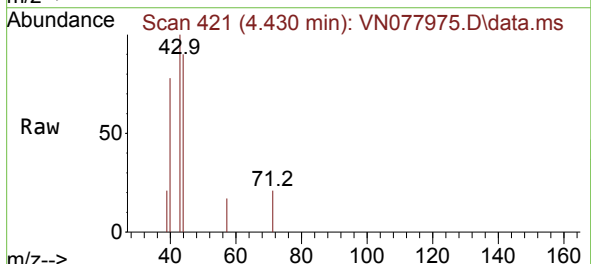
Instrument :
MSVOA_N
ClientSampleId :
TT149S1-20230522

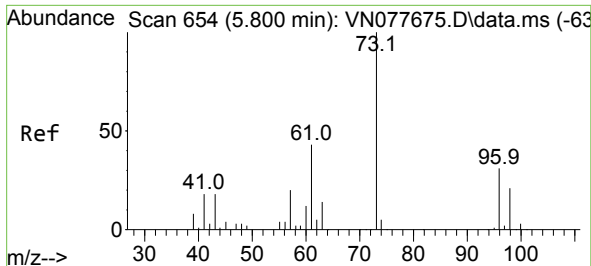
Tgt Ion: 53 Resp: 1781
Ion Ratio Lower Upper
53 100
52 5.4 65.3 97.9#
51 21.7 28.9 43.3#



#16
Acetone
Concen: 0.763 ug/l
RT: 4.430 min Scan# 421
Delta R.T. -0.000 min
Lab File: VN077975.D
Acq: 30 May 2023 17:27

Tgt Ion: 43 Resp: 1350
Ion Ratio Lower Upper
43 100
58 0.0 28.0 42.0#

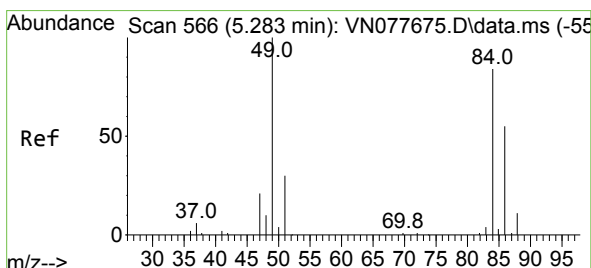
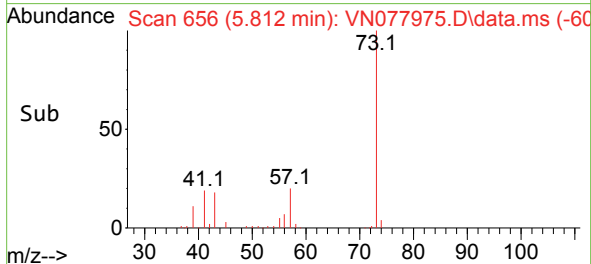
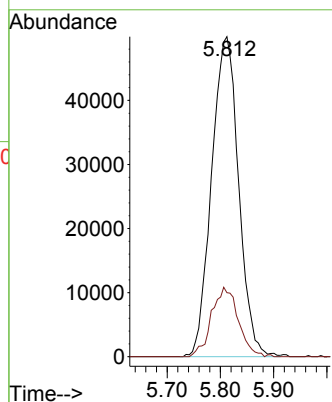
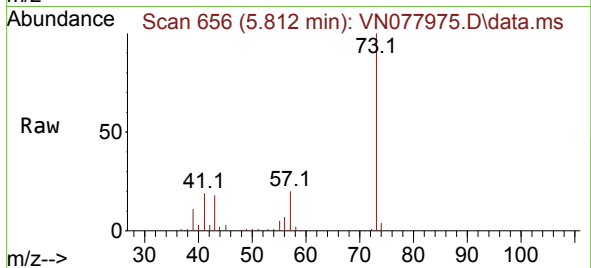




#19
Methyl tert-butyl Ether
Concen: 12.302 ug/l
RT: 5.812 min Scan# 61
Delta R.T. 0.012 min
Lab File: VN077975.D
Acq: 30 May 2023 17:27

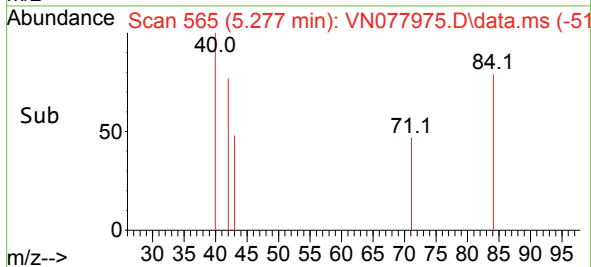
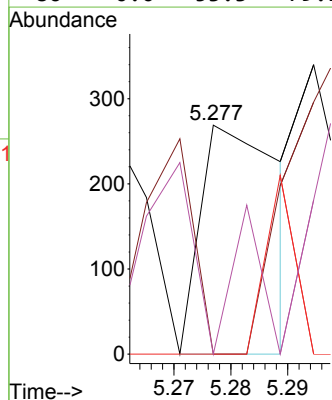
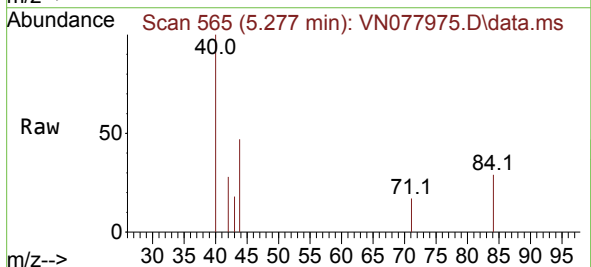
Instrument :
MSVOA_N
ClientSampleId :
TT149S1-20230522

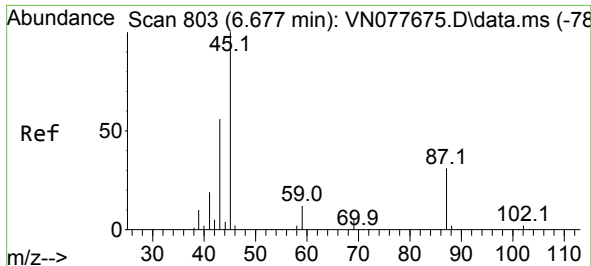
Tgt Ion: 73 Resp: 176084
Ion Ratio Lower Upper
73 100
57 20.0 15.6 23.4



#20
Methylene Chloride
Concen: Below Cal
RT: 5.277 min Scan# 565
Delta R.T. -0.006 min
Lab File: VN077975.D
Acq: 30 May 2023 17:27

Tgt Ion: 84 Resp: 262
Ion Ratio Lower Upper
84 100
49 0.0 79.7 119.5#
51 0.0 25.2 37.8#
86 0.0 53.3 79.9#





#22

Diisopropyl ether

Concen: 0.255 ug/l

RT: 6.683 min Scan# 804

Delta R.T. 0.006 min

Lab File: VN077975.D

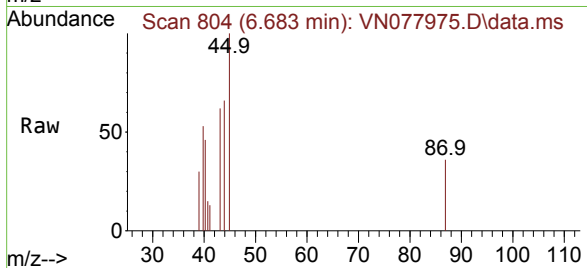
Acq: 30 May 2023 17:27

Instrument :

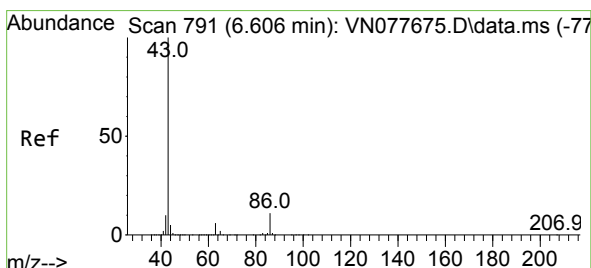
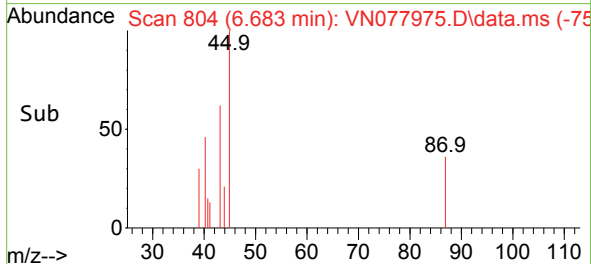
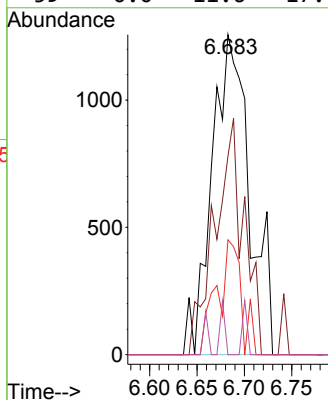
MSVOA_N

ClientSampleId :

TT149S1-20230522



Tgt Ion:	45	Resp:	3474
Ion Ratio	100	Lower	Upper
43	62.0	45.5	68.3
87	35.9	31.8	47.8
59	0.0	11.6	17.4



#23

Vinyl Acetate

Concen: 0.235 ug/l

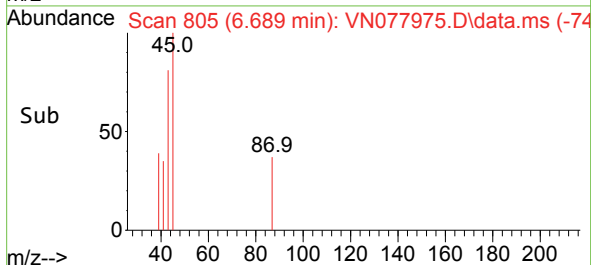
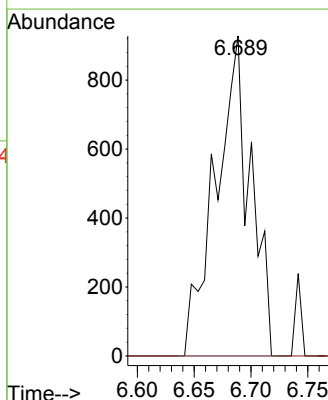
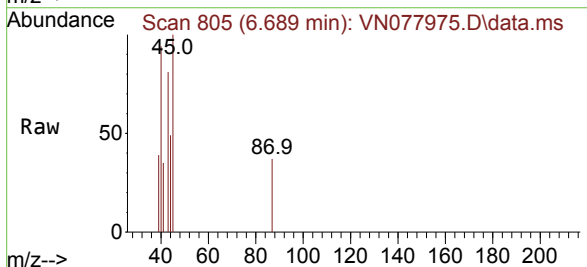
RT: 6.689 min Scan# 805

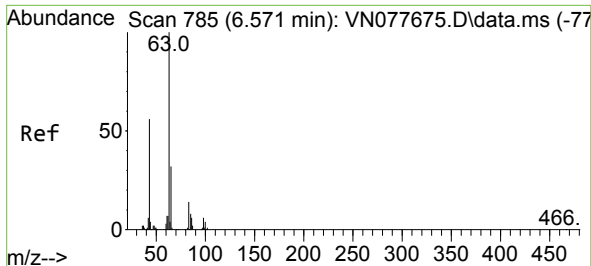
Delta R.T. 0.083 min

Lab File: VN077975.D

Acq: 30 May 2023 17:27

Tgt Ion:	43	Resp:	1982
Ion Ratio	100	Lower	Upper
86	0.0	13.0	19.6

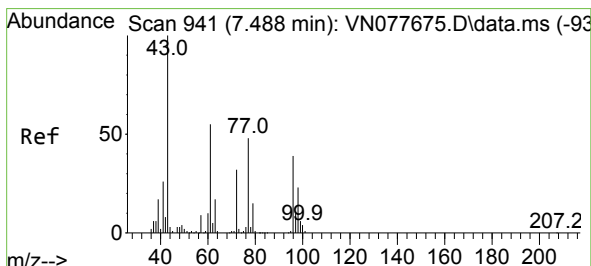
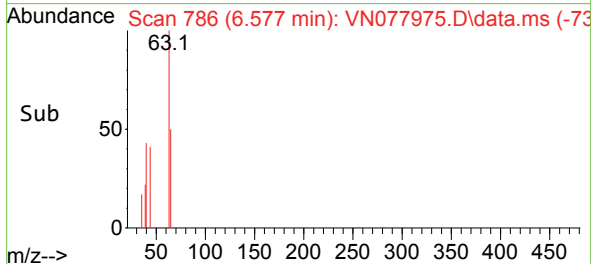
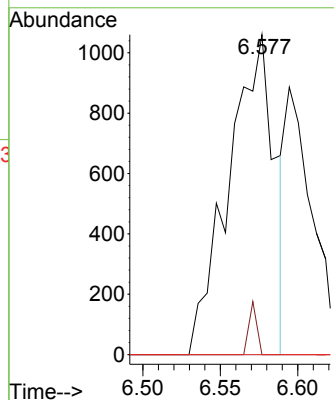
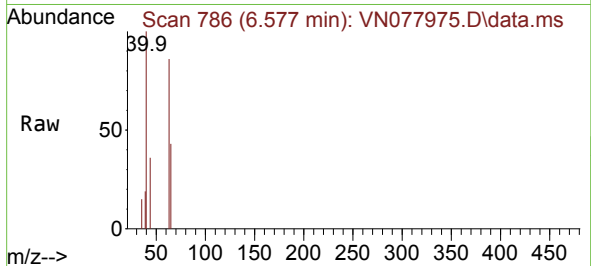




#24
1,1-Dichloroethane
Concen: 0.261 ug/l
RT: 6.577 min Scan# 71
Delta R.T. 0.006 min
Lab File: VN077975.D
Acq: 30 May 2023 17:27

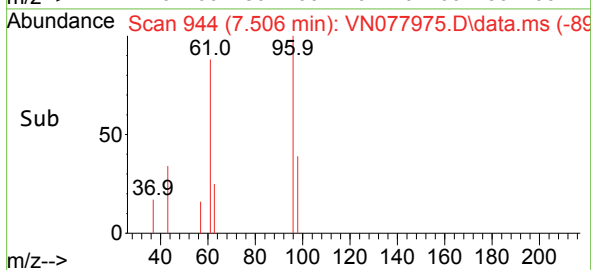
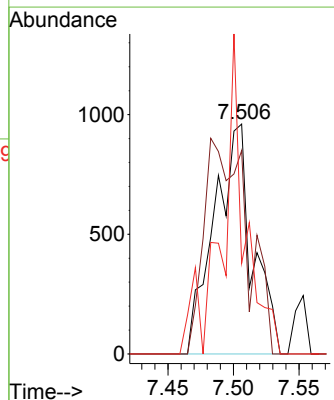
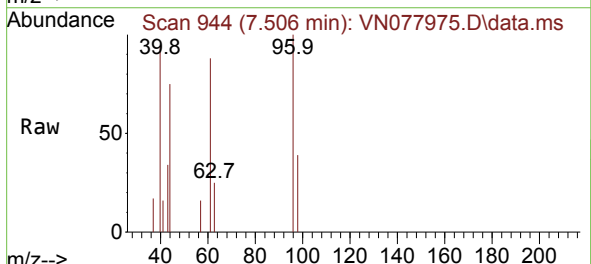
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TT149S1-20230522

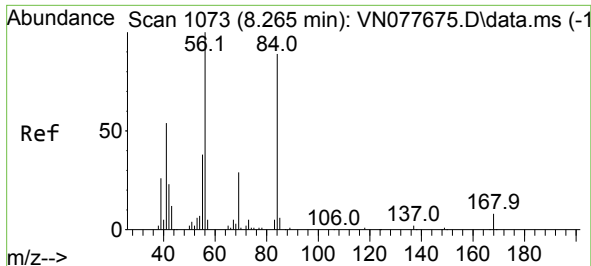
Tgt Ion: 63 Resp: 2178
Ion Ratio Lower Upper
63 100
98 0.0 3.9 11.7#
100 0.0 2.5 7.4#



#27
cis-1,2-Dichloroethene
Concen: 0.365 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.018 min
Lab File: VN077975.D
Acq: 30 May 2023 17:27

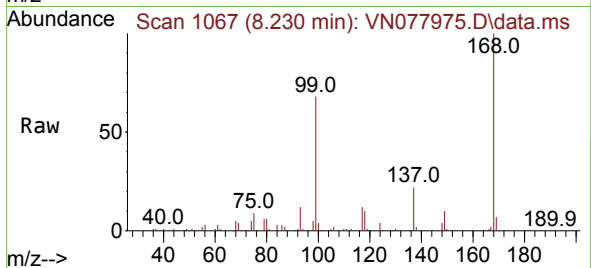
Tgt Ion: 96 Resp: 1942
Ion Ratio Lower Upper
96 100
61 0.0 0.0 255.2
98 84.3 0.0 128.8



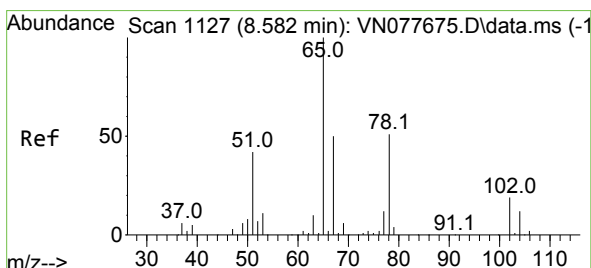
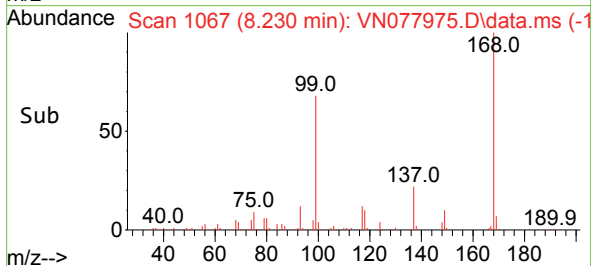
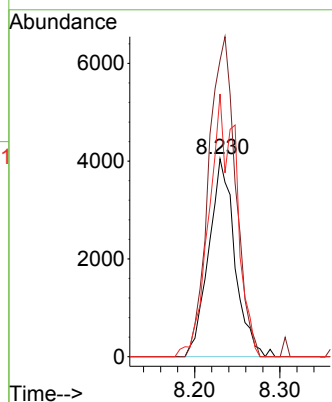


#31
Cyclohexane
Concen: 1.128 ug/l
RT: 8.230 min Scan# 1073
Delta R.T. -0.035 min
Lab File: VN077975.D
Acq: 30 May 2023 17:27

Instrument :
MSVOA_N
ClientSampleId :
TT149S1-20230522

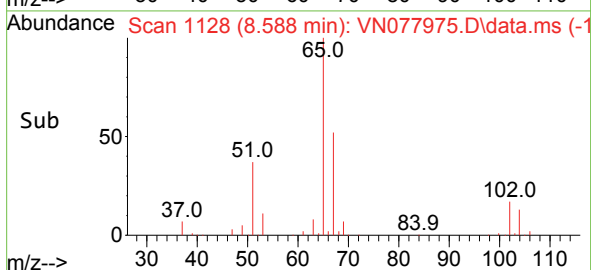
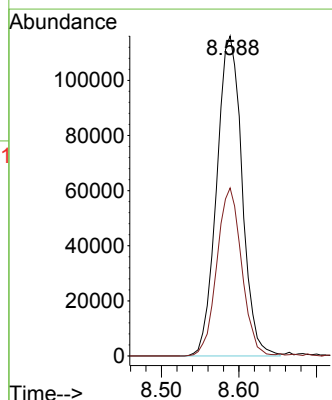
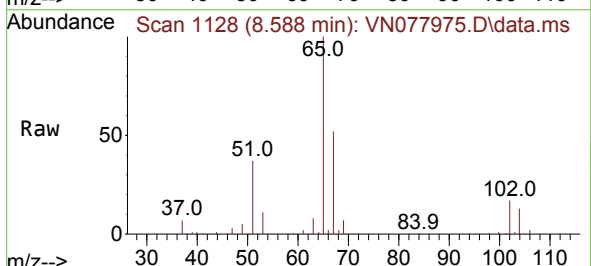


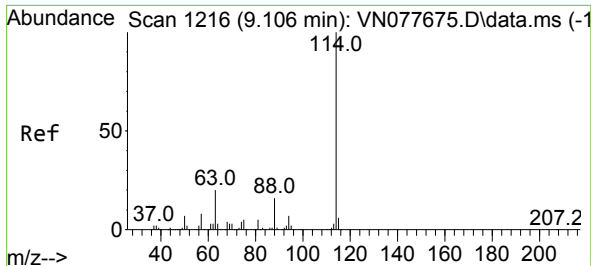
Tgt Ion: 56 Resp: 8628
Ion Ratio Lower Upper
56 100
69 149.8 26.8 40.2#
84 132.8 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 46.857 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN077975.D
Acq: 30 May 2023 17:27

Tgt Ion: 65 Resp: 263592
Ion Ratio Lower Upper
65 100
67 51.4 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN077975.D

Acq: 30 May 2023 17:27

Instrument :

MSVOA_N

ClientSampleId :

TT149S1-20230522

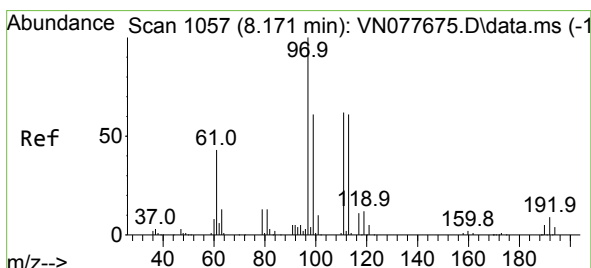
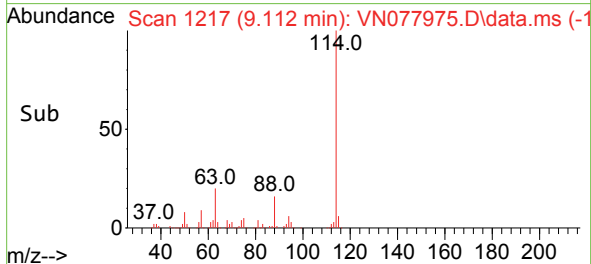
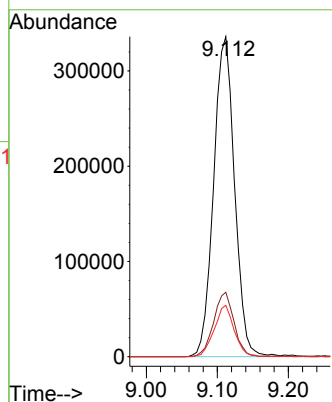
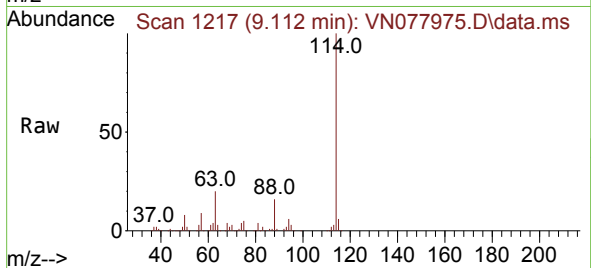
Tgt Ion:114 Resp: 686100

Ion Ratio Lower Upper

114 100

63 20.1 0.0 36.4

88 16.0 0.0 30.6



#35

Dibromofluoromethane

Concen: 51.309 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN077975.D

Acq: 30 May 2023 17:27

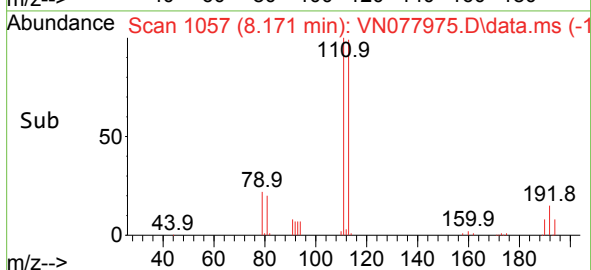
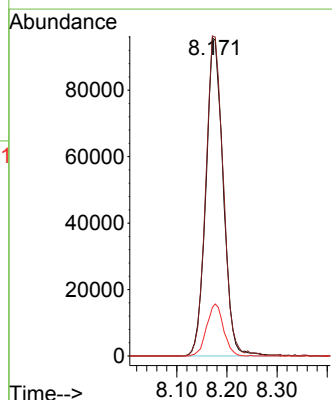
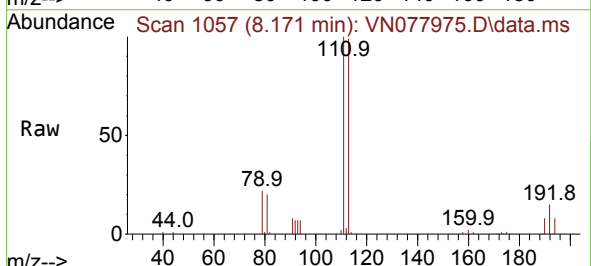
Tgt Ion:113 Resp: 229555

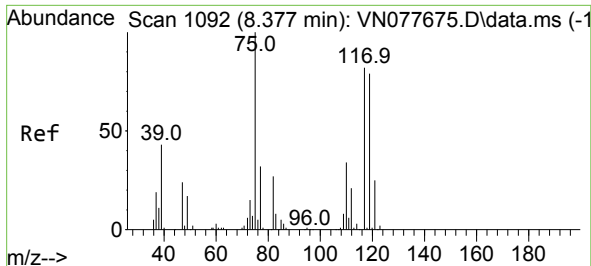
Ion Ratio Lower Upper

113 100

111 100.8 82.6 123.8

192 15.9 12.7 19.1

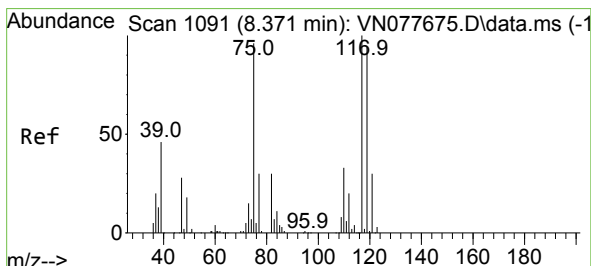
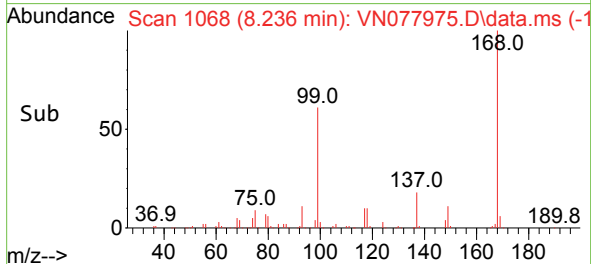
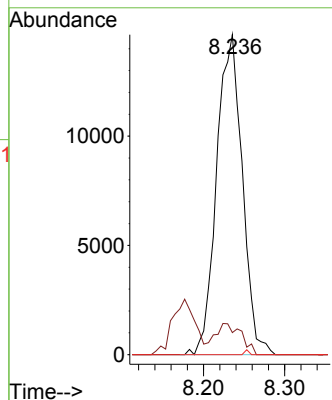
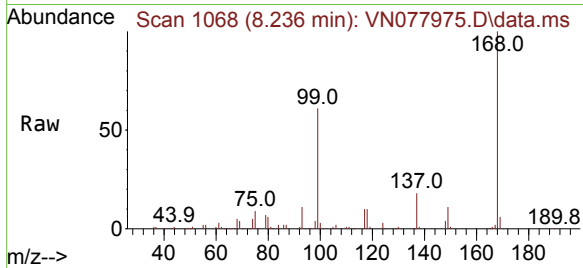




#36
1,1-Dichloropropene
Concen: 4.913 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.141 min
Lab File: VN077975.D
Acq: 30 May 2023 17:27

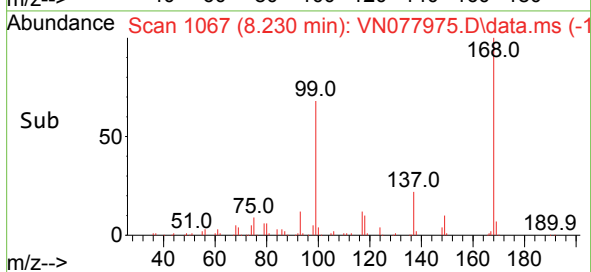
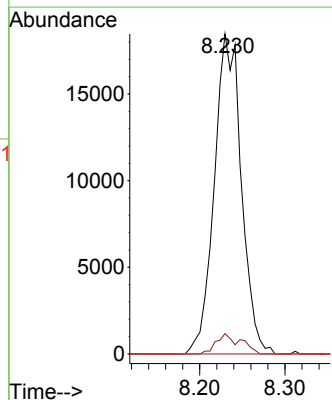
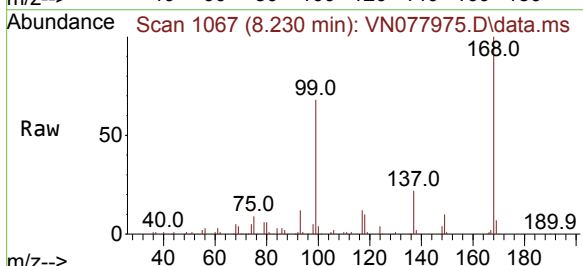
Instrument :
MSVOA_N
ClientSampleId :
TT149S1-20230522

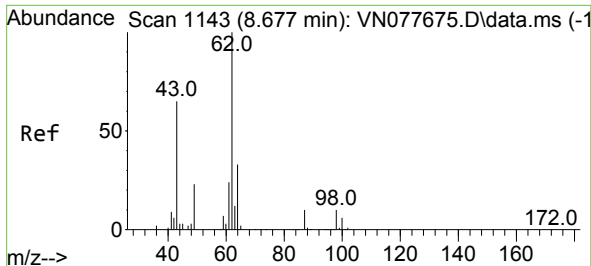
Tgt Ion: 75 Resp: 32151
Ion Ratio Lower Upper
75 100
110 9.6 19.1 57.3#
77 0.0 25.0 37.4#



#38
Carbon Tetrachloride
Concen: 6.164 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN077975.D
Acq: 30 May 2023 17:27

Tgt Ion: 117 Resp: 40730
Ion Ratio Lower Upper
117 100
119 6.3 77.3 115.9#
121 0.0 23.3 34.9#





#42

1,2-Dichloroethane

Concen: 0.542 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.006 min

Lab File: VN077975.D

Acq: 30 May 2023 17:27

Instrument :

MSVOA_N

ClientSampleId :

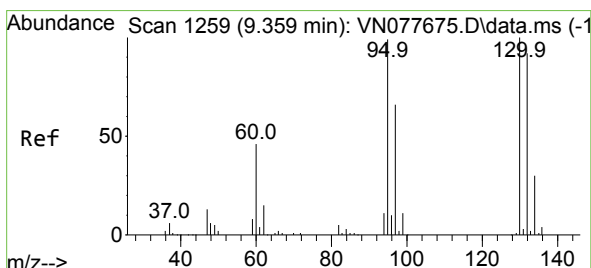
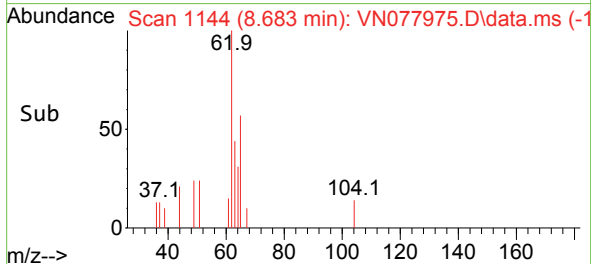
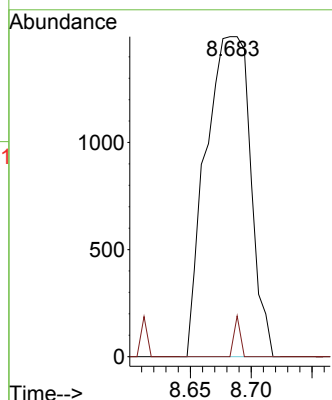
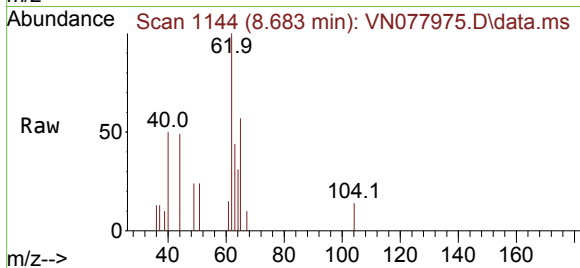
TT149S1-20230522

Tgt Ion: 62 Resp: 3803

Ion Ratio Lower Upper

62 100

98 1.8 0.0 19.8



#44

Trichloroethene

Concen: 4.387 ug/l

RT: 9.359 min Scan# 1259

Delta R.T. 0.000 min

Lab File: VN077975.D

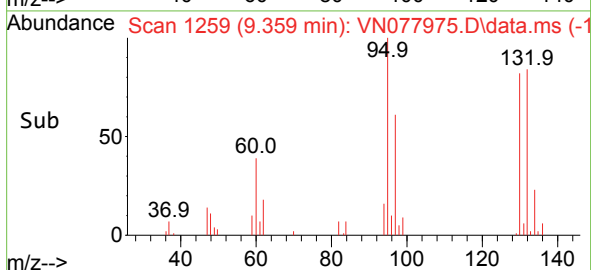
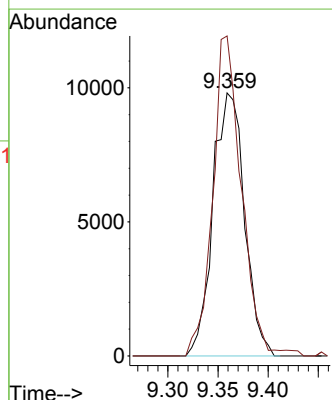
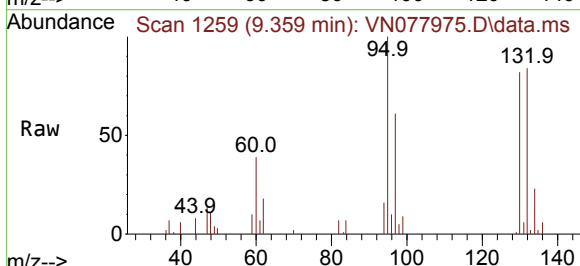
Acq: 30 May 2023 17:27

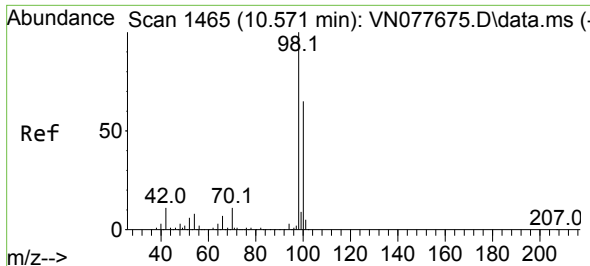
Tgt Ion:130 Resp: 21450

Ion Ratio Lower Upper

130 100

95 121.6 0.0 204.6

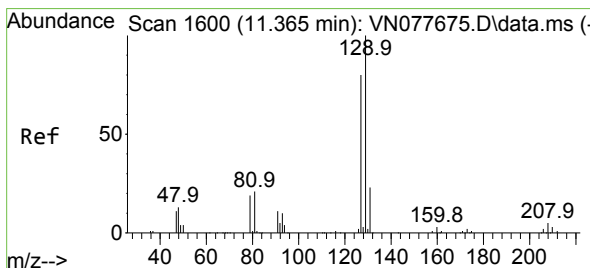
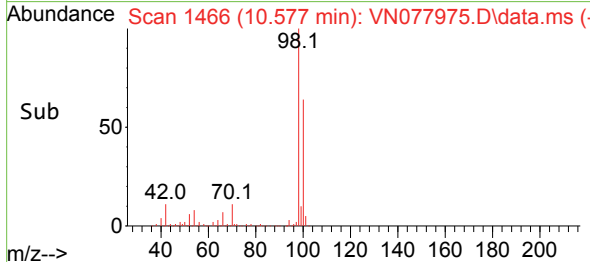
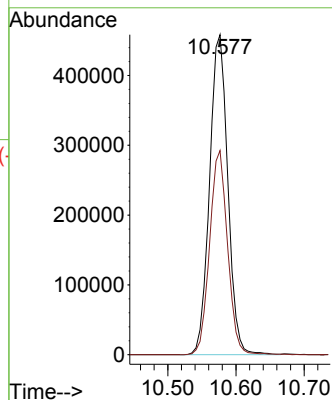
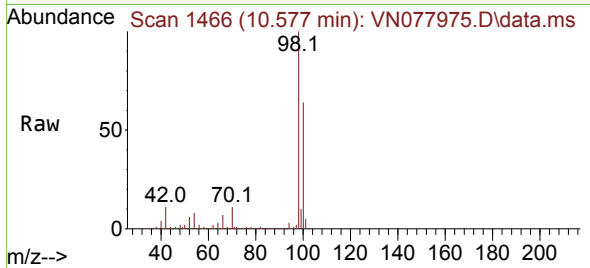




#50
Toluene-d8
Concen: 49.595 ug/l
RT: 10.577 min Scan# 1466
Delta R.T. 0.006 min
Lab File: VN077975.D
Acq: 30 May 2023 17:27

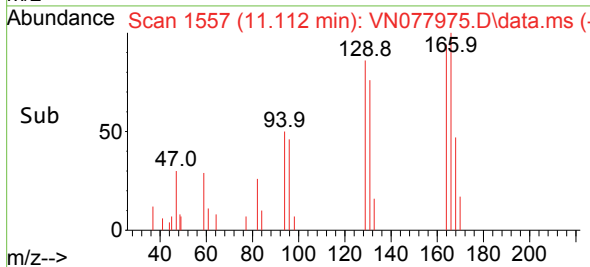
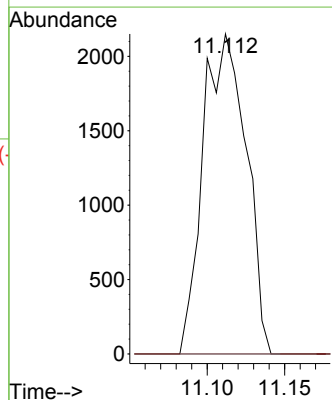
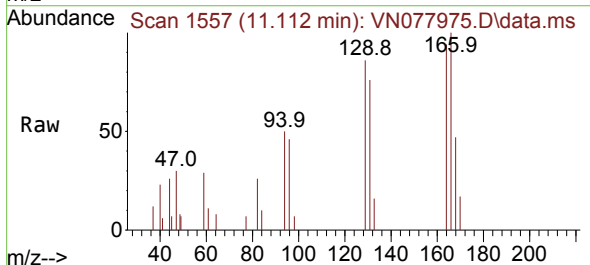
Instrument :
MSVOA_N
ClientSampleId :
TT149S1-20230522

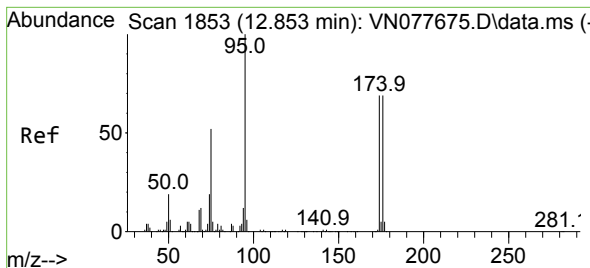
Tgt Ion: 98 Resp: 854066
Ion Ratio Lower Upper
98 100
100 62.7 52.0 78.0



#60
Dibromochloromethane
Concen: 0.846 ug/l
RT: 11.112 min Scan# 1557
Delta R.T. -0.253 min
Lab File: VN077975.D
Acq: 30 May 2023 17:27

Tgt Ion: 129 Resp: 4170
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#





#62

4-Bromofluorobenzene

Concen: 45.432 ug/l

RT: 12.859 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN077975.D

Acq: 30 May 2023 17:27

Instrument :

MSVOA_N

ClientSampleId :

TT149S1-20230522

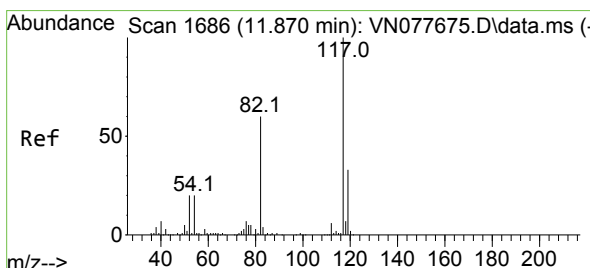
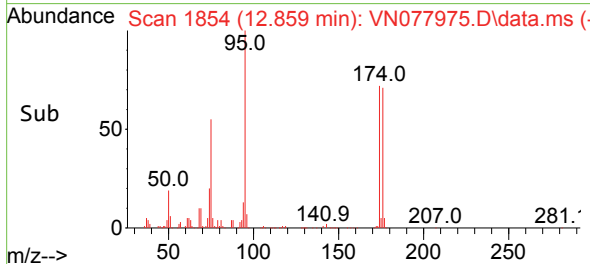
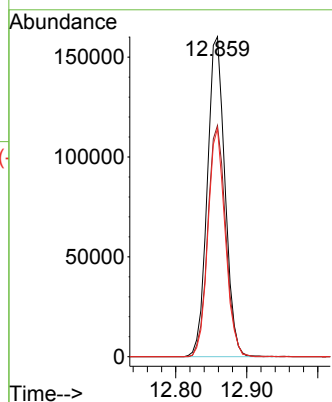
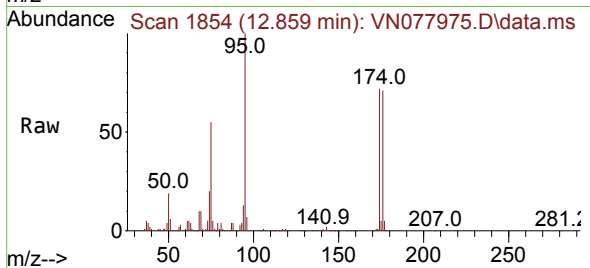
Tgt Ion: 95 Resp: 276317

Ion Ratio Lower Upper

95 100

174 73.7 0.0 143.8

176 69.7 0.0 135.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.876 min Scan# 1687

Delta R.T. 0.006 min

Lab File: VN077975.D

Acq: 30 May 2023 17:27

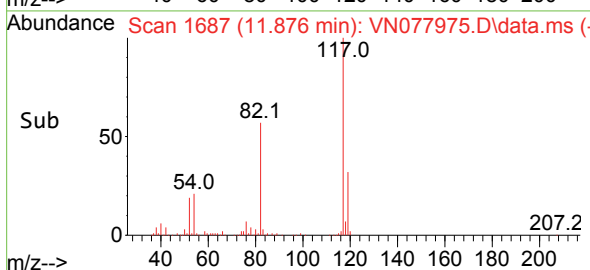
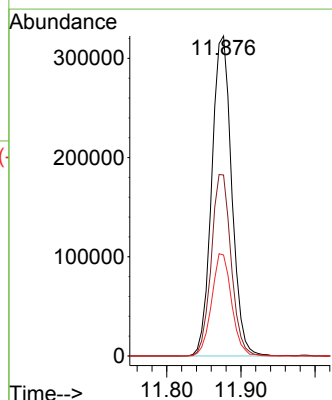
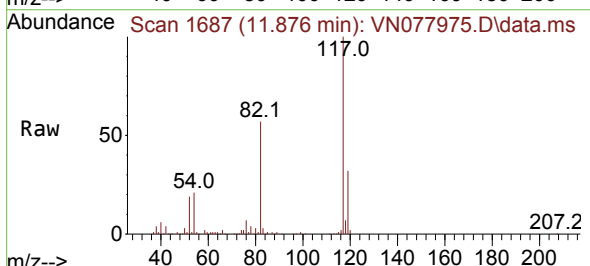
Tgt Ion: 117 Resp: 603969

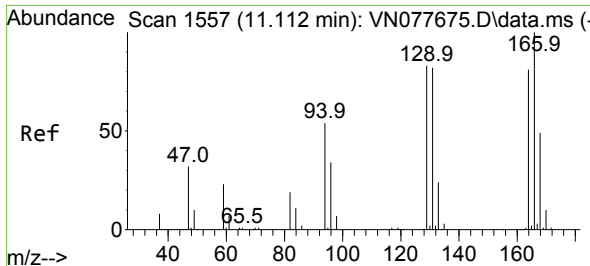
Ion Ratio Lower Upper

117 100

82 56.5 44.0 66.0

119 31.6 25.6 38.4

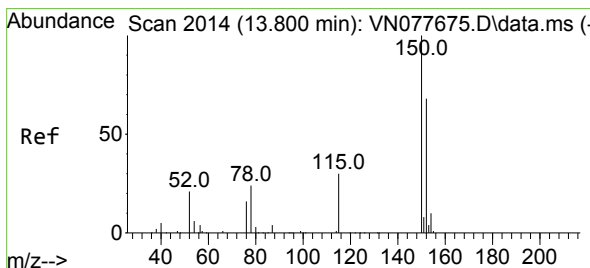
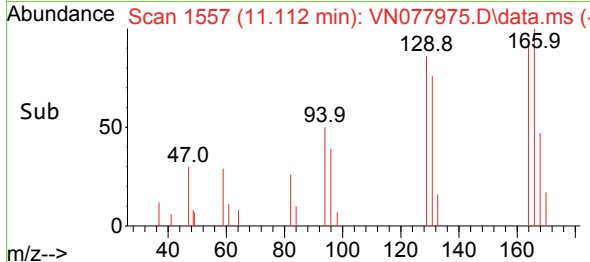
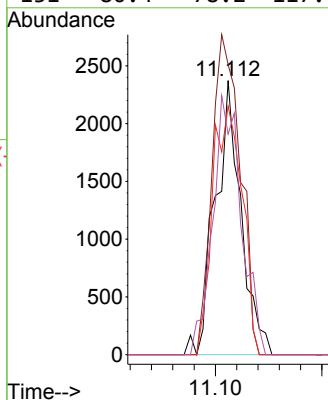
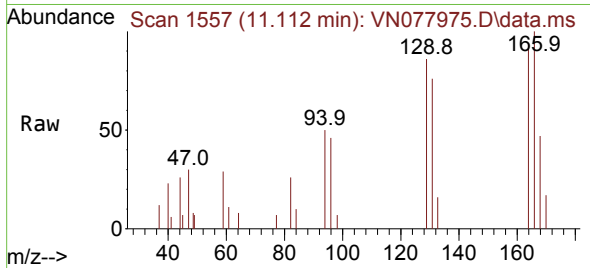




#64
Tetrachloroethene
Concen: 0.942 ug/l
RT: 11.112 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN077975.D
Acq: 30 May 2023 17:27

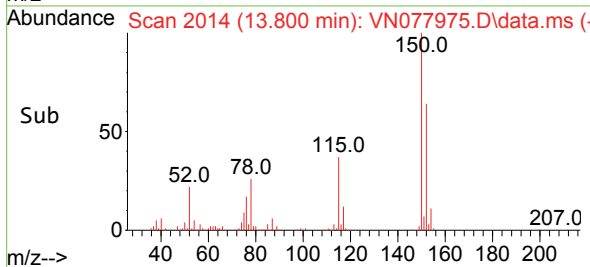
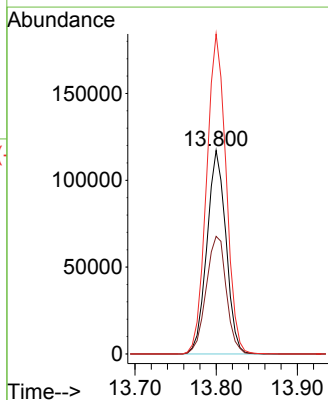
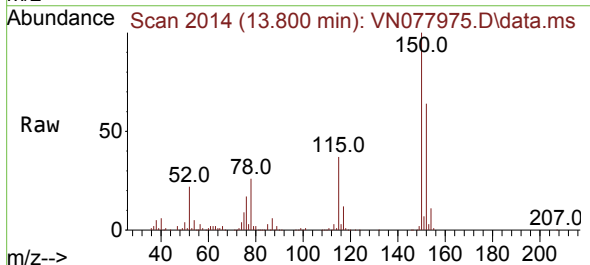
Instrument :
MSVOA_N
ClientSampleId :
TT149S1-20230522

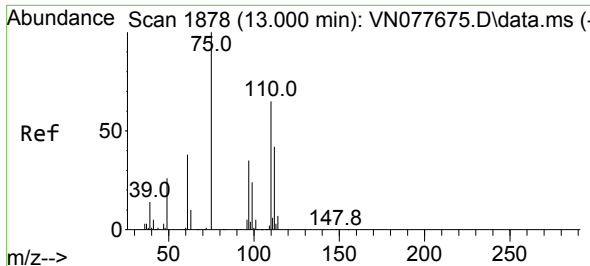
Tgt	Ion:164	Resp:	3980
Ion	Ratio	Lower	Upper
164	100		
166	105.9	101.4	152.0
129	90.6	82.4	123.6
131	80.4	78.2	117.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. -0.000 min
Lab File: VN077975.D
Acq: 30 May 2023 17:27

Tgt Ion:152	Resp:	190648	
Ion	Ratio	Lower	Upper
152	100		
115	61.4	32.3	96.8
150	160.9	0.0	355.8

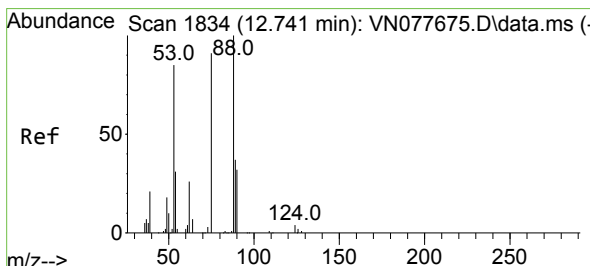
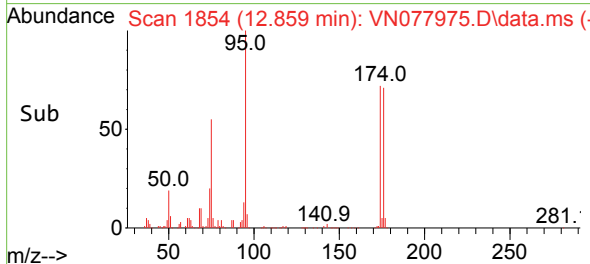
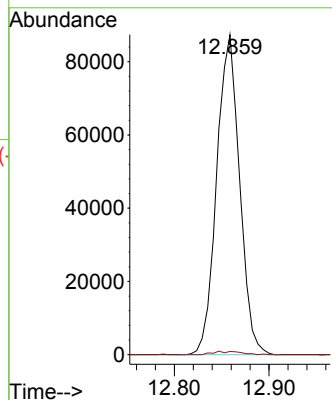
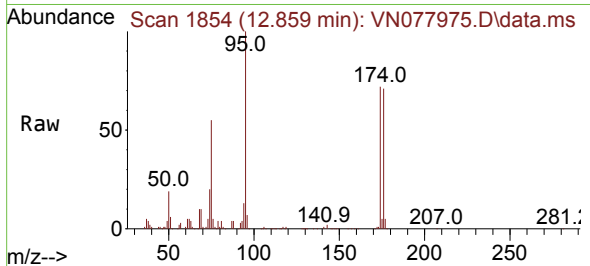




#76
1,2,3-Trichloropropane
Concen: 30.764 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. -0.141 min
Lab File: VN077975.D
Acq: 30 May 2023 17:27

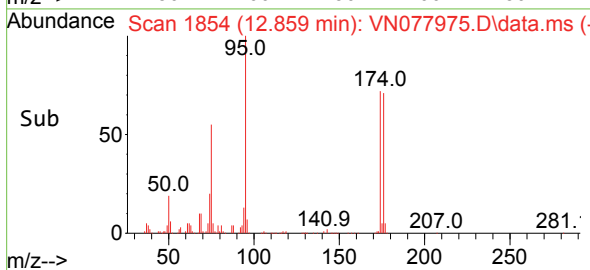
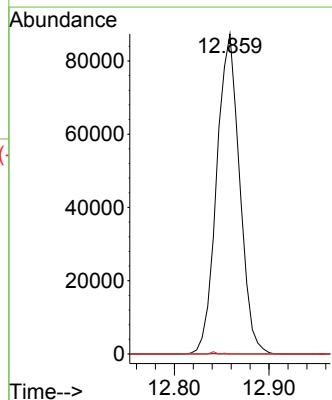
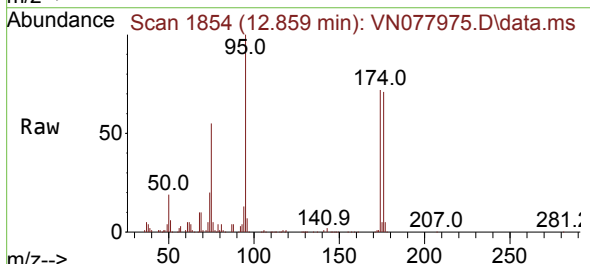
Instrument :
MSVOA_N
ClientSampleId :
TT149S1-20230522

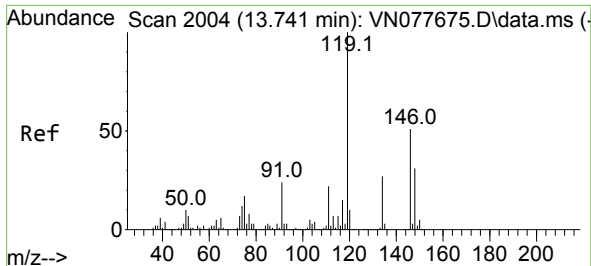
Tgt Ion: 75 Resp: 146883
Ion Ratio Lower Upper
75 100
77 1.3 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 98.338 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.118 min
Lab File: VN077975.D
Acq: 30 May 2023 17:27

Tgt Ion: 75 Resp: 146883
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.2 38.8 58.2#





#87

1,3-Dichlorobenzene

Concen: 0.276 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. 0.071 min

Lab File: VN077975.D

Acq: 30 May 2023 17:27

Instrument :

MSVOA_N

ClientSampleId :

TT149S1-20230522

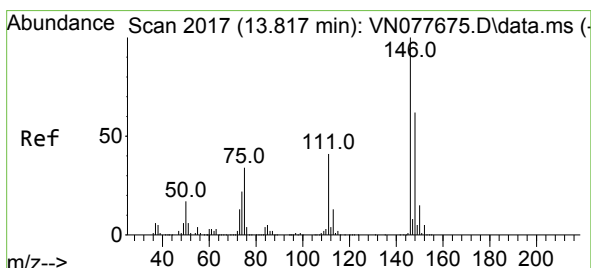
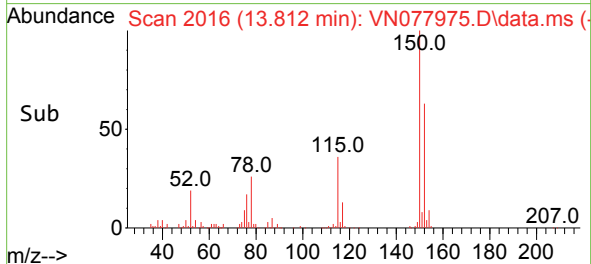
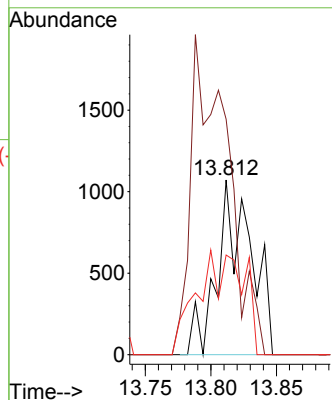
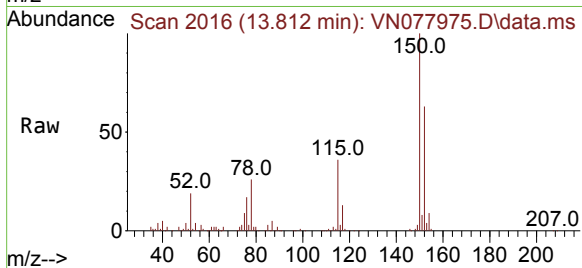
Tgt Ion:146 Resp: 1911

Ion Ratio Lower Upper

146 100

111 0.0 22.1 66.3#

148 41.0 32.0 96.0



#88

1,4-Dichlorobenzene

Concen: 0.278 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. -0.005 min

Lab File: VN077975.D

Acq: 30 May 2023 17:27

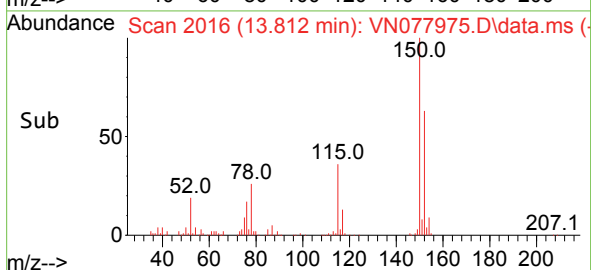
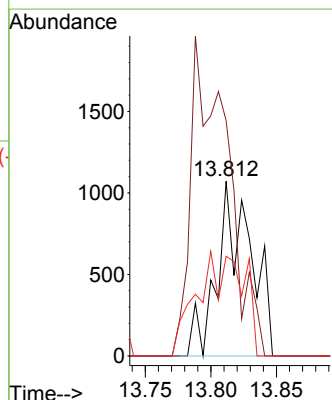
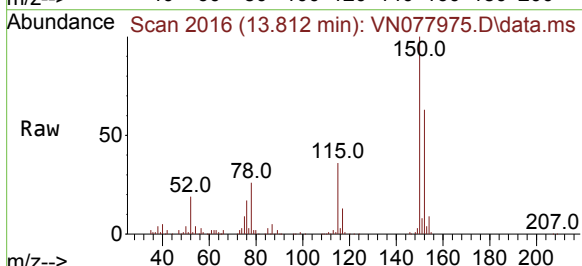
Tgt Ion:146 Resp: 1911

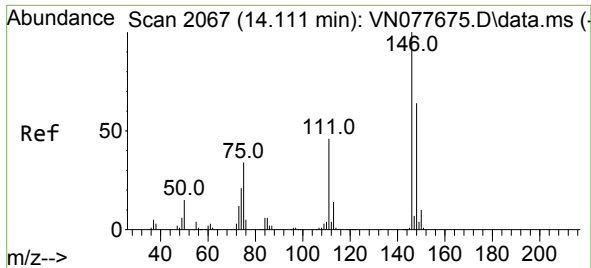
Ion Ratio Lower Upper

146 100

111 0.0 20.6 61.8#

148 41.0 31.6 94.8





#91

1,2-Dichlorobenzene

Concen: 0.274 ug/l

RT: 14.112 min Scan# 20

Delta R.T. 0.001 min

Lab File: VN077975.D

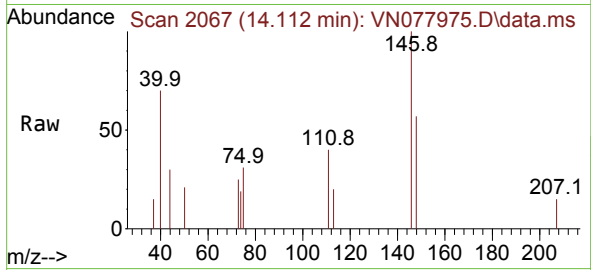
Acq: 30 May 2023 17:27

Instrument :

MSVOA_N

ClientSampleId :

TT149S1-20230522



Tgt Ion:146 Resp: 1774

Ion Ratio Lower Upper

146 100

111 29.7 22.0 66.0

148 58.6 31.8 95.3

