

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032123\
 Data File : VN077090.D
 Acq On : 21 Mar 2023 15:05
 Operator : JC\MD
 Sample : 02001-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IRV-1

Quant Time: Mar 21 23:17:37 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)

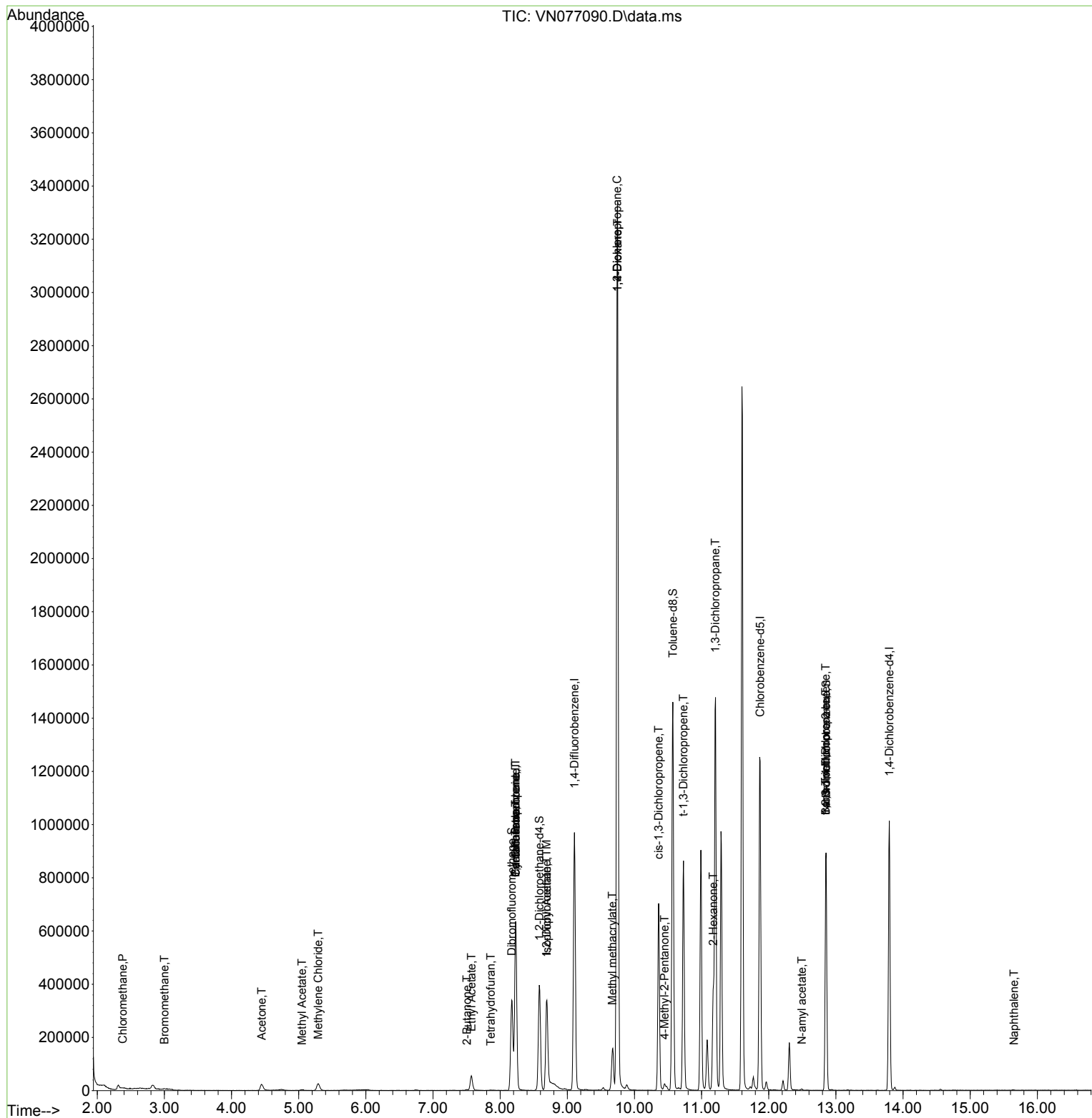
Internal Standards						
1) Pentafluorobenzene	8.231	168	435291	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	805430	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.872	117	714501	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	262479	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	328684	47.272	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	94.540%
35) Dibromofluoromethane	8.172	113	252102	44.695	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	89.380%
50) Toluene-d8	10.572	98	989524	49.111	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	98.220%
62) 4-Bromofluorobenzene	12.854	95	319359	44.855	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	89.700%
Target Compounds						
					Qvalue	
3) Chloromethane	2.378	50	1043	0.238	ug/l	97
5) Bromomethane	3.002	94	864	0.270	ug/l #	55
16) Acetone	4.449	43	44906	14.495	ug/l	90
18) Methyl Acetate	5.049	43	6288	0.538	ug/l #	76
20) Methylene Chloride	5.290	84	20694	3.078	ug/l	94
25) 2-Butanone	7.507	43	5607	1.237	ug/l	97
29) Tetrahydrofuran	7.860	42	1167	0.397	ug/l #	49
31) Cyclohexane	8.231	56	11163	0.981	ug/l #	1
36) 1,1-Dichloropropene	8.231	75	39917	4.531	ug/l #	51
37) Ethyl Acetate	7.572	43	84729	8.989	ug/l	99
38) Carbon Tetrachloride	8.231	117	49639	5.785	ug/l #	17
42) 1,2-Dichloroethane	8.689	62	2132	0.221	ug/l #	76
43) Isopropyl Acetate	8.695	43	461461	31.338	ug/l #	84
45) 1,2-Dichloropropane	9.742	63	4660	0.657	ug/l #	43
48) Methyl methacrylate	9.672	41	10035	1.426	ug/l #	46
49) 1,4-Dioxane	9.748	88	566	4.707	ug/l #	1
51) 4-Methyl-2-Pentanone	10.448	43	14089	1.536	ug/l	91
53) t-1,3-Dichloropropene	10.731	75	2095	0.228	ug/l #	80
54) cis-1,3-Dichloropropene	10.360	75	120136	11.574	ug/l #	64
57) 1,3-Dichloropropane	11.207	76	15080	1.309	ug/l #	43
59) 2-Hexanone	11.172	43	307273	46.200	ug/l #	24
71) Bromoform	12.848	173	1765	0.428	ug/l #	28
74) N-amyl acetate	12.495	43	2214	0.217	ug/l #	51
76) 1,2,3-Trichloropropane	12.848	75	170490	25.111	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.848	75	170490	69.120	ug/l #	10
95) Naphthalene	15.654	128	1639	2.002	ug/l #	84

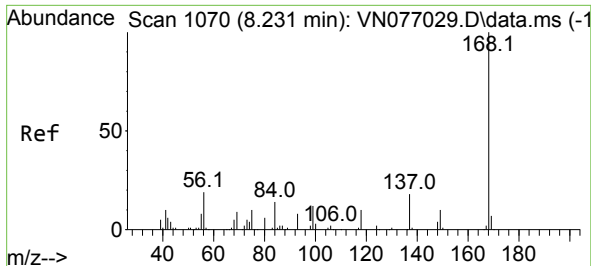
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Mar 20 08:50:30 2023
Response via : Initial Calibration

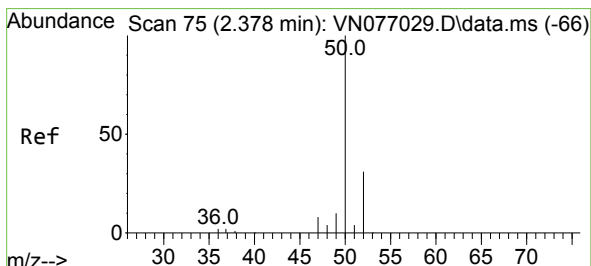
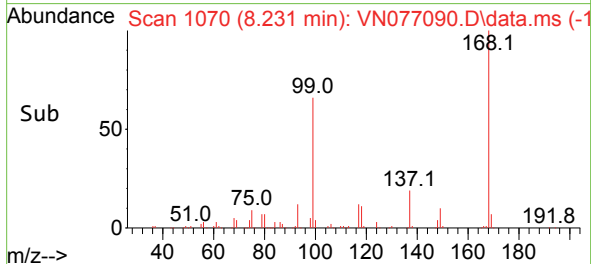
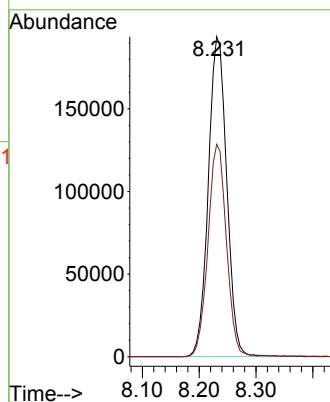
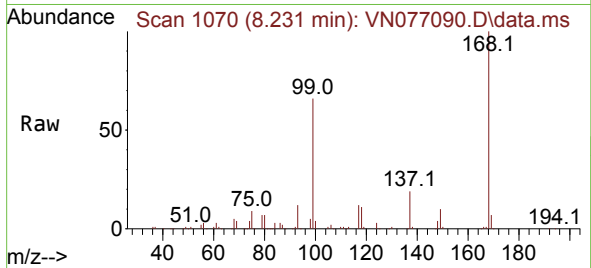




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.231 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN077090.D
Acq: 21 Mar 2023 15:05

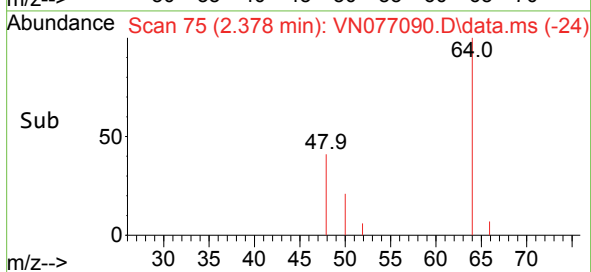
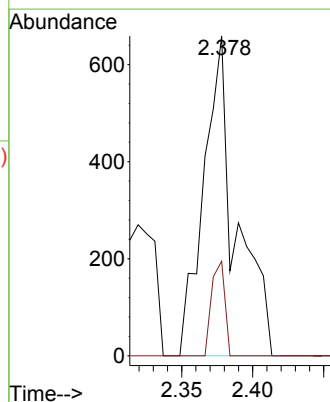
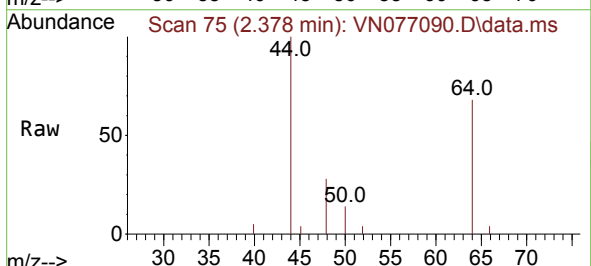
Instrument :
MSVOA_N
ClientSampleId :
IRV-1

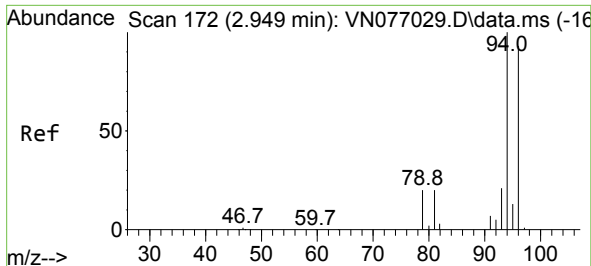
Tgt Ion:168 Resp: 435291
Ion Ratio Lower Upper
168 100
99 66.3 53.9 80.9



#3
Chloromethane
Concen: 0.238 ug/l
RT: 2.378 min Scan# 75
Delta R.T. 0.000 min
Lab File: VN077090.D
Acq: 21 Mar 2023 15:05

Tgt Ion: 50 Resp: 1043
Ion Ratio Lower Upper
50 100
52 29.6 25.1 37.7

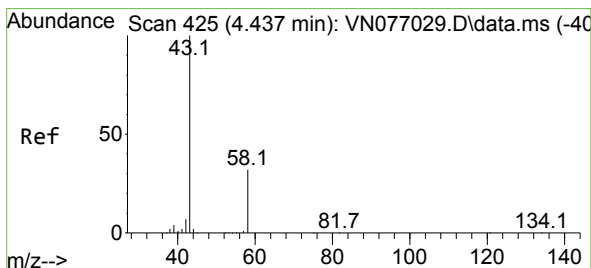
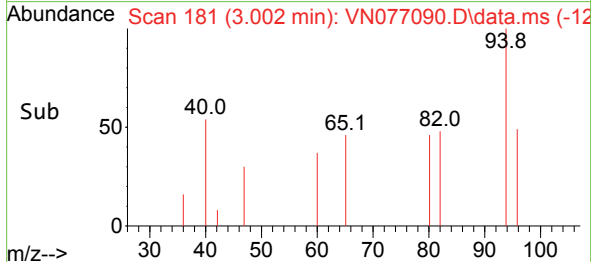
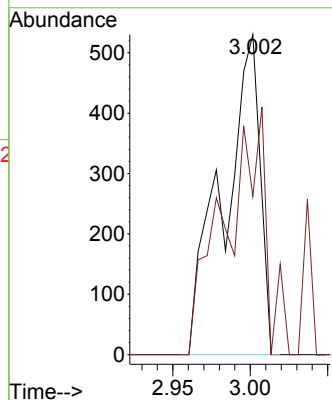
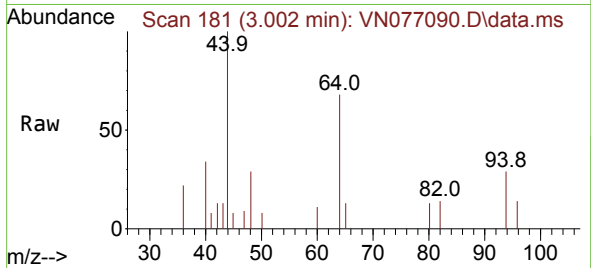




#5
Bromomethane
Concen: 0.270 ug/l
RT: 3.002 min Scan# 11
Delta R.T. 0.053 min
Lab File: VN077090.D
Acq: 21 Mar 2023 15:05

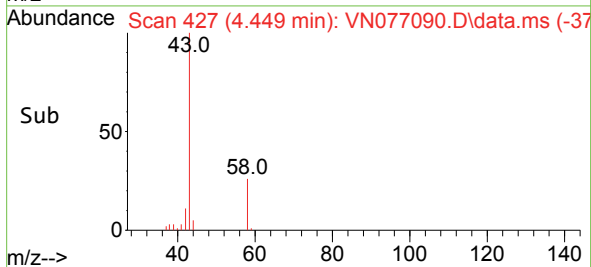
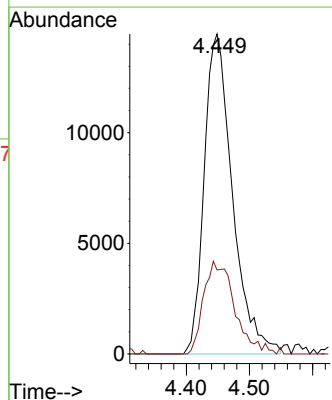
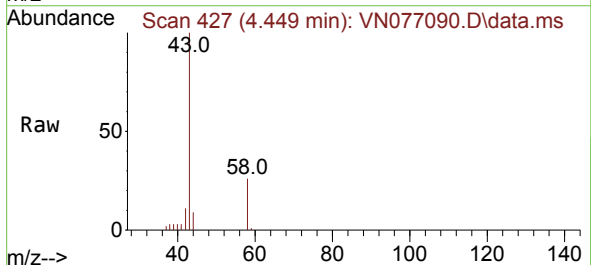
Instrument :
MSVOA_N
ClientSampleId :
IRV-1

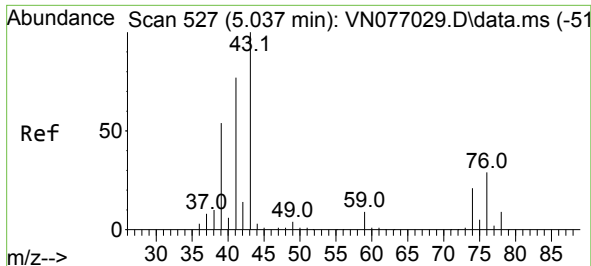
Tgt Ion: 94 Resp: 864
Ion Ratio Lower Upper
94 100
96 49.4 74.1 111.1#



#16
Acetone
Concen: 14.495 ug/l
RT: 4.449 min Scan# 427
Delta R.T. 0.012 min
Lab File: VN077090.D
Acq: 21 Mar 2023 15:05

Tgt Ion: 43 Resp: 44906
Ion Ratio Lower Upper
43 100
58 26.3 25.4 38.0

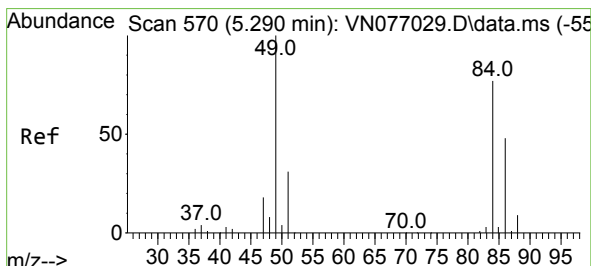
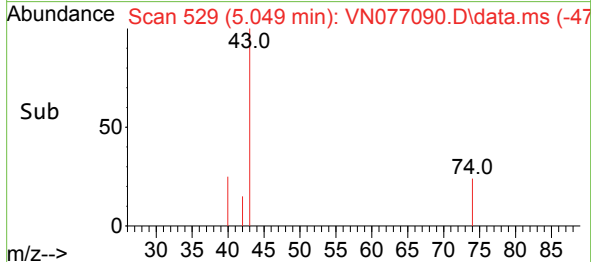
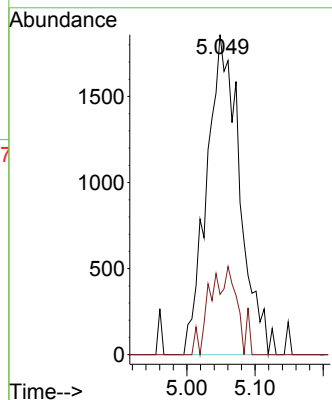
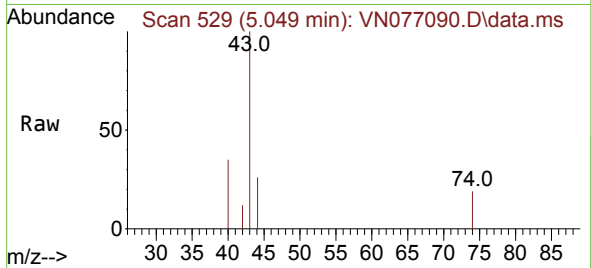




#18
Methyl Acetate
Concen: 0.538 ug/l
RT: 5.049 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN077090.D
Acq: 21 Mar 2023 15:05

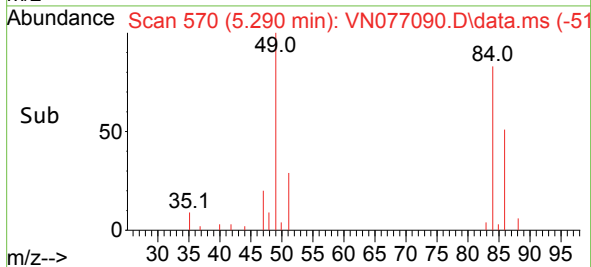
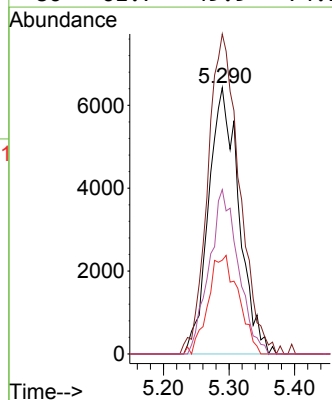
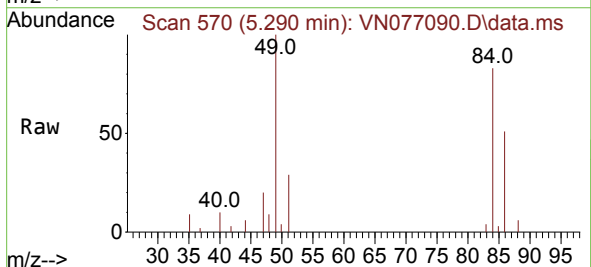
Instrument :
MSVOA_N
ClientSampleId :
IRV-1

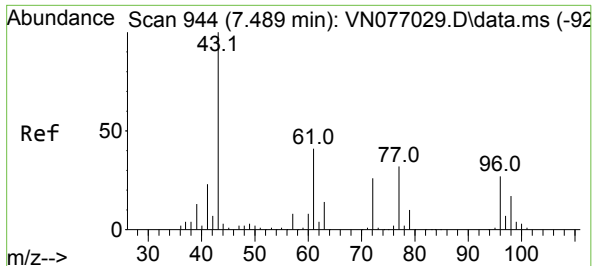
Tgt Ion: 43 Resp: 6288
Ion Ratio Lower Upper
43 100
74 10.6 17.7 26.5#



#20
Methylene Chloride
Concen: 3.078 ug/l
RT: 5.290 min Scan# 570
Delta R.T. -0.000 min
Lab File: VN077090.D
Acq: 21 Mar 2023 15:05

Tgt Ion: 84 Resp: 20694
Ion Ratio Lower Upper
84 100
49 120.2 103.8 155.6
51 35.2 32.3 48.5
86 61.7 49.9 74.9





#25

2-Butanone

Concen: 1.237 ug/l

RT: 7.507 min Scan# 944

Delta R.T. 0.018 min

Lab File: VN077090.D

Acq: 21 Mar 2023 15:05

Instrument :

MSVOA_N

ClientSampleId :

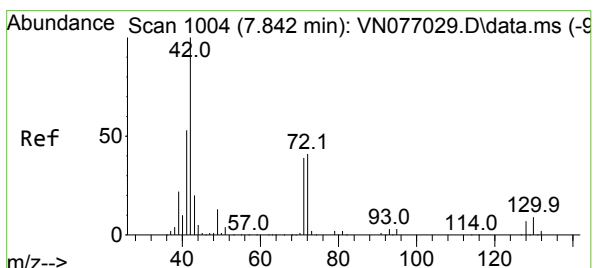
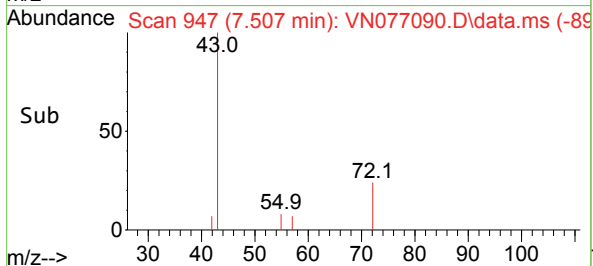
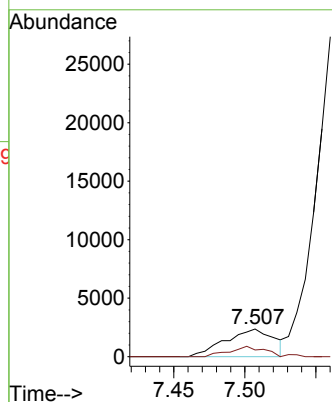
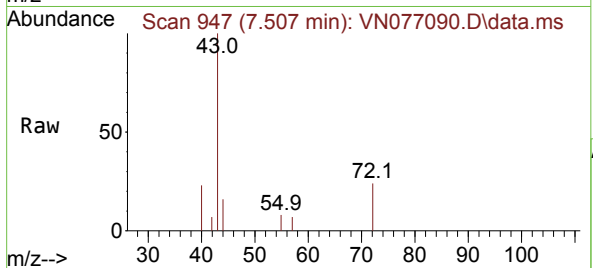
IRV-1

Tgt Ion: 43 Resp: 5607

Ion Ratio Lower Upper

43 100

72 24.4 20.7 31.1



#29

Tetrahydrofuran

Concen: 0.397 ug/l

RT: 7.860 min Scan# 1007

Delta R.T. 0.018 min

Lab File: VN077090.D

Acq: 21 Mar 2023 15:05

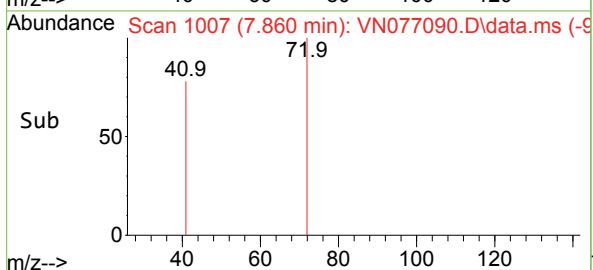
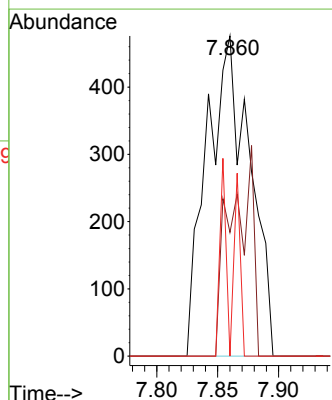
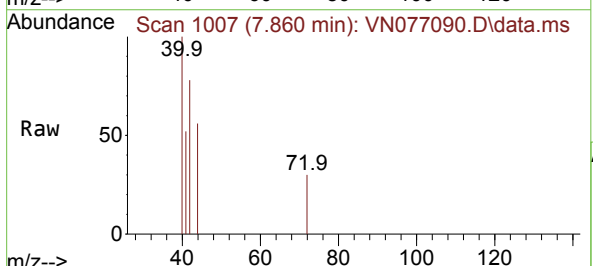
Tgt Ion: 42 Resp: 1167

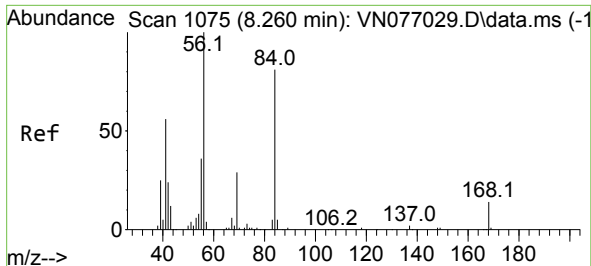
Ion Ratio Lower Upper

42 100

72 0.0 33.2 49.8#

71 17.1 31.0 46.4#

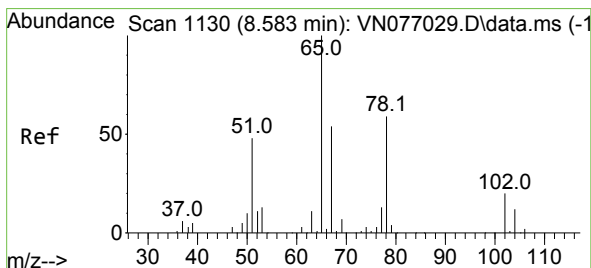
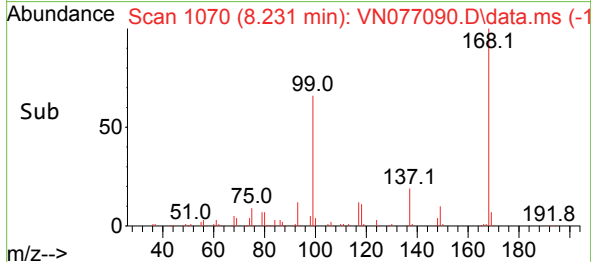
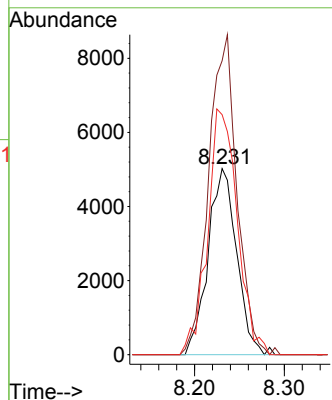
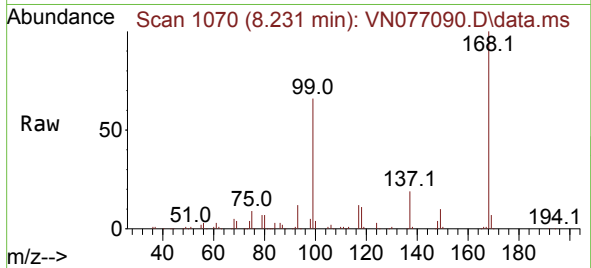




#31
Cyclohexane
Concen: 0.981 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.029 min
Lab File: VN077090.D
Acq: 21 Mar 2023 15:05

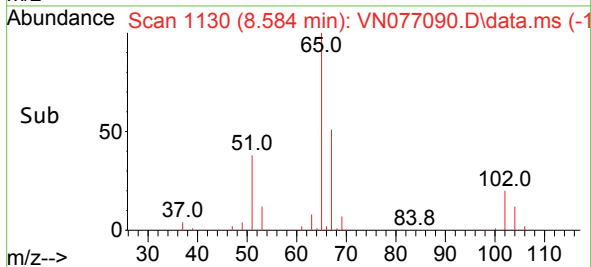
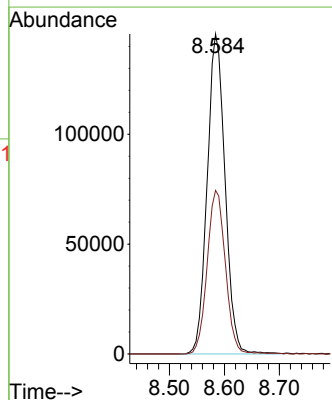
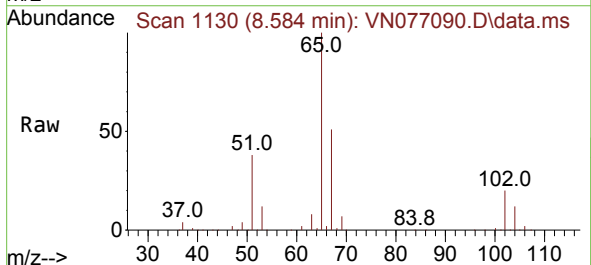
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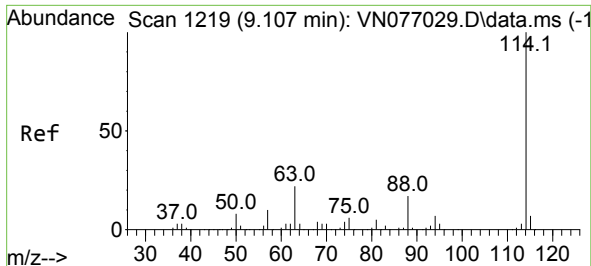
Tgt Ion: 56 Resp: 11163
Ion Ratio Lower Upper
56 100
69 158.0 22.8 34.2#
84 129.0 64.7 97.1#



#33
1,2-Dichloroethane-d4
Concen: 47.272 ug/l
RT: 8.584 min Scan# 1130
Delta R.T. 0.001 min
Lab File: VN077090.D
Acq: 21 Mar 2023 15:05

Tgt Ion: 65 Resp: 328684
Ion Ratio Lower Upper
65 100
67 52.3 0.0 105.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN077090.D

Acq: 21 Mar 2023 15:05

Instrument :

MSVOA_N

ClientSampleId :

IRV-1

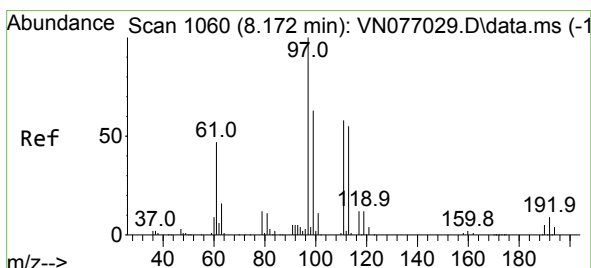
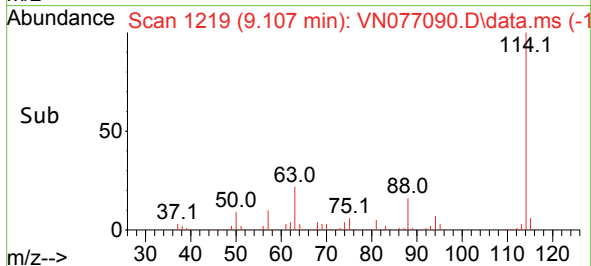
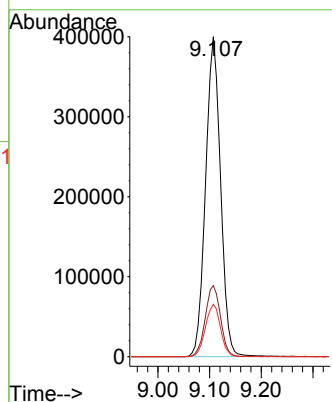
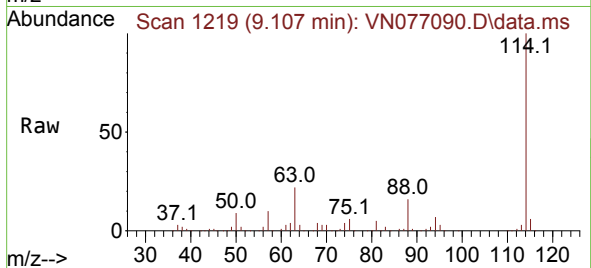
Tgt Ion:114 Resp: 805430

Ion Ratio Lower Upper

114 100

63 22.2 0.0 44.6

88 16.3 0.0 33.8



#35

Dibromofluoromethane

Concen: 44.695 ug/l

RT: 8.172 min Scan# 1060

Delta R.T. 0.000 min

Lab File: VN077090.D

Acq: 21 Mar 2023 15:05

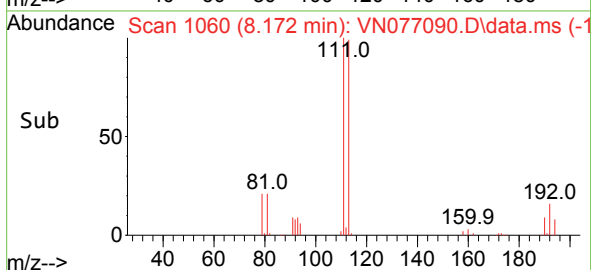
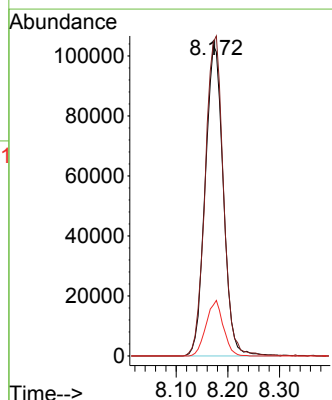
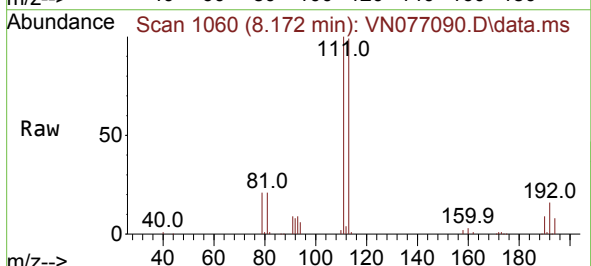
Tgt Ion:113 Resp: 252102

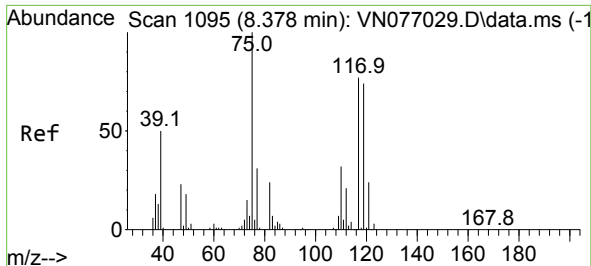
Ion Ratio Lower Upper

113 100

111 103.3 82.2 123.2

192 17.0 13.0 19.6

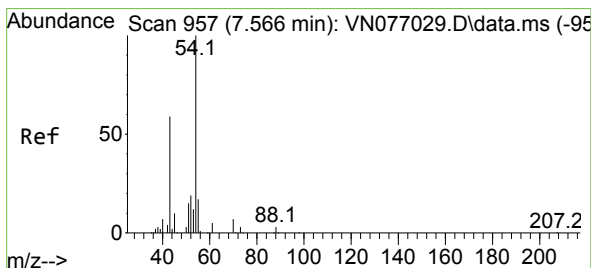
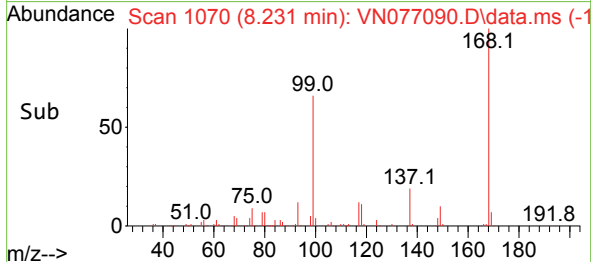
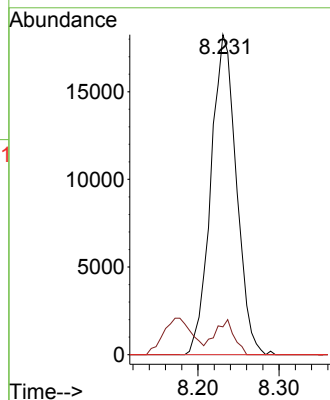
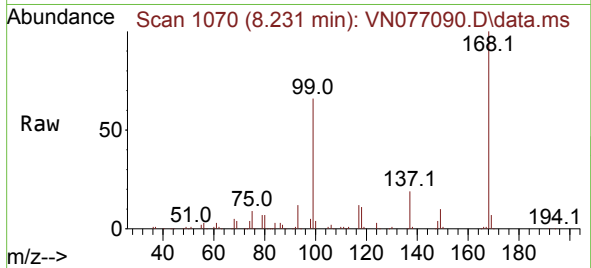




#36
 1,1-Dichloropropene
 Concen: 4.531 ug/l
 RT: 8.231 min Scan# 1095
 Delta R.T. -0.147 min
 Lab File: VN077090.D
 Acq: 21 Mar 2023 15:05

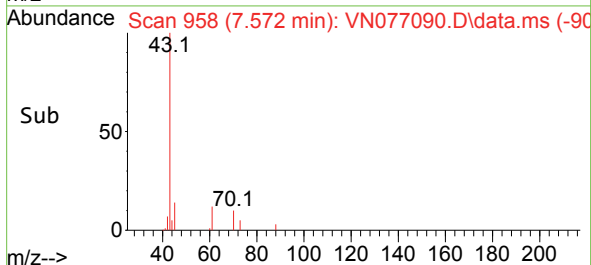
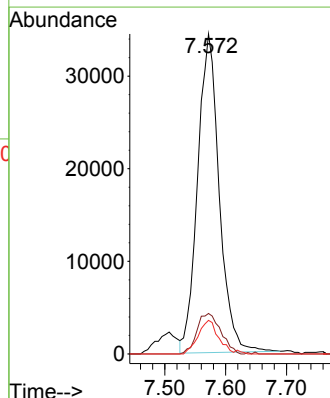
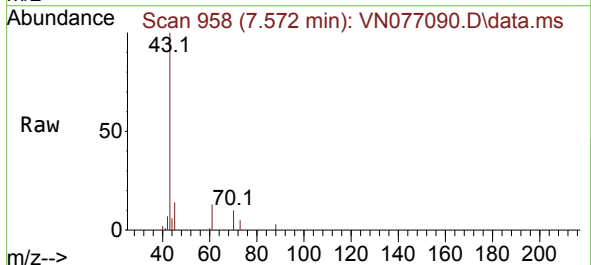
Instrument :
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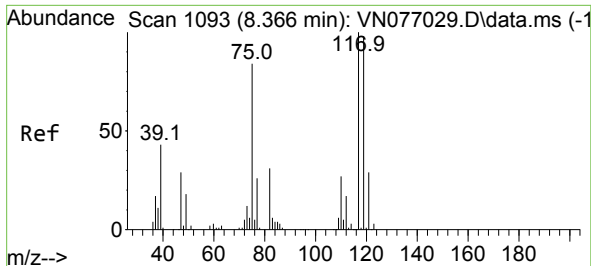
Tgt Ion: 75 Resp: 39917
 Ion Ratio Lower Upper
 75 100
 110 8.3 15.9 47.7#
 77 0.0 24.3 36.5#



#37
 Ethyl Acetate
 Concen: 8.989 ug/l
 RT: 7.572 min Scan# 958
 Delta R.T. 0.006 min
 Lab File: VN077090.D
 Acq: 21 Mar 2023 15:05

Tgt Ion: 43 Resp: 84729
 Ion Ratio Lower Upper
 43 100
 61 14.0 11.0 16.6
 70 9.8 8.4 12.6

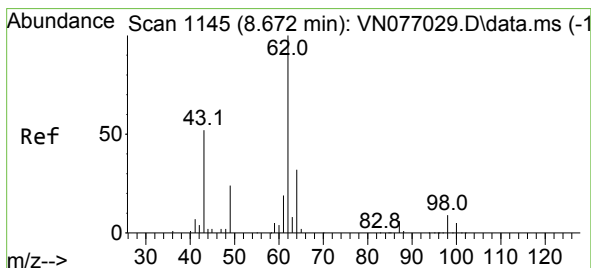
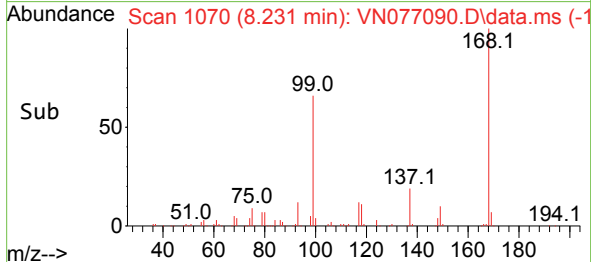
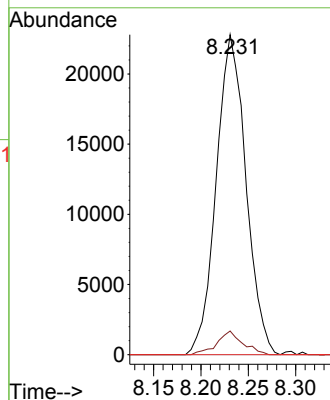
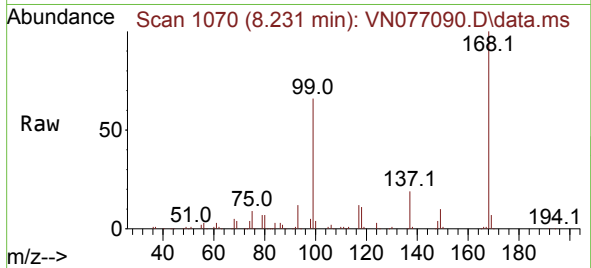




#38
Carbon Tetrachloride
Concen: 5.785 ug/l
RT: 8.231 min Scan# 1093
Delta R.T. -0.135 min
Lab File: VN077090.D
Acq: 21 Mar 2023 15:05

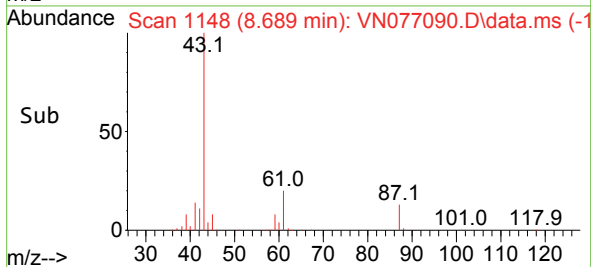
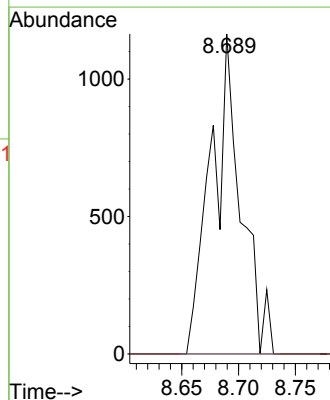
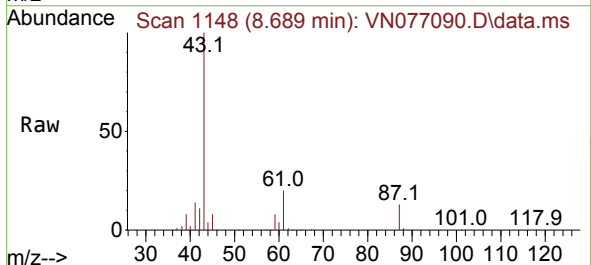
Instrument :
MSVOA_N
ClientSampleId :
IRV-1

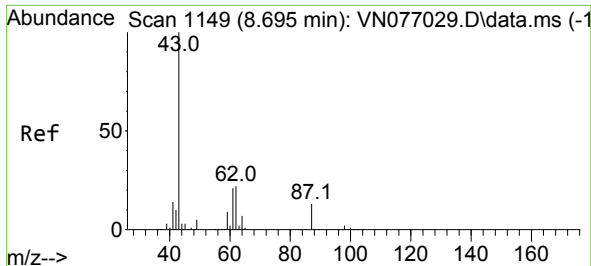
Tgt Ion:117 Resp: 49639
Ion Ratio Lower Upper
117 100
119 7.4 78.2 117.2#
121 0.0 23.2 34.8#



#42
1,2-Dichloroethane
Concen: 0.221 ug/l
RT: 8.689 min Scan# 1148
Delta R.T. 0.018 min
Lab File: VN077090.D
Acq: 21 Mar 2023 15:05

Tgt Ion: 62 Resp: 2132
Ion Ratio Lower Upper
62 100
98 0.0 0.0 17.4

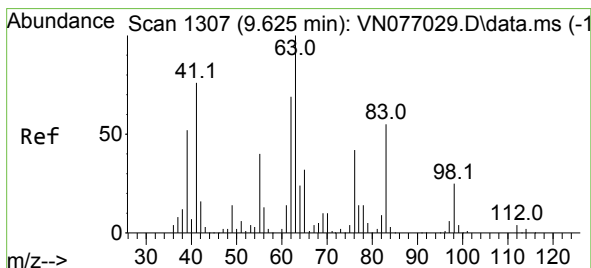
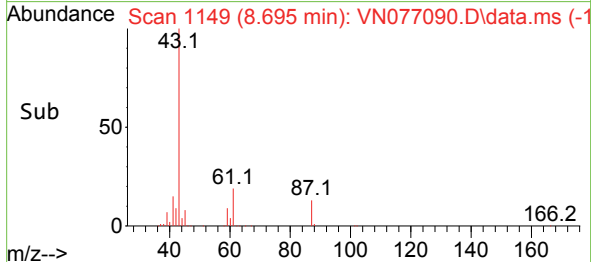
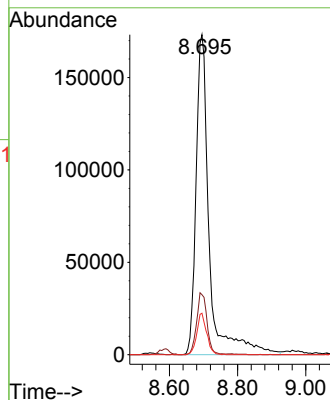
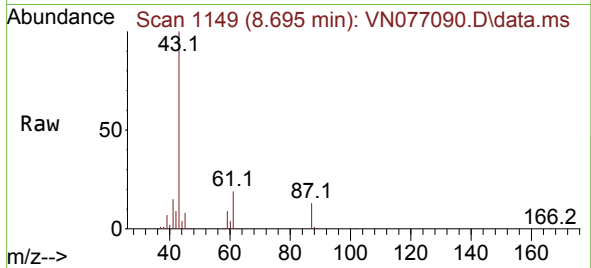




#43
Isopropyl Acetate
Concen: 31.338 ug/l
RT: 8.695 min Scan# 1149
Delta R.T. 0.000 min
Lab File: VN077090.D
Acq: 21 Mar 2023 15:05

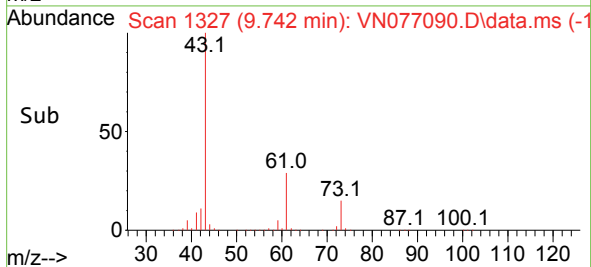
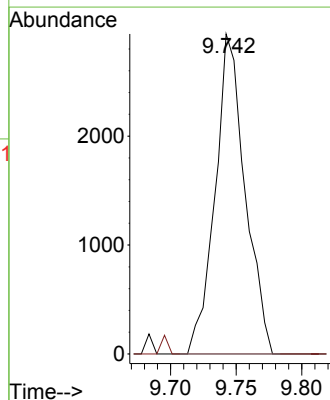
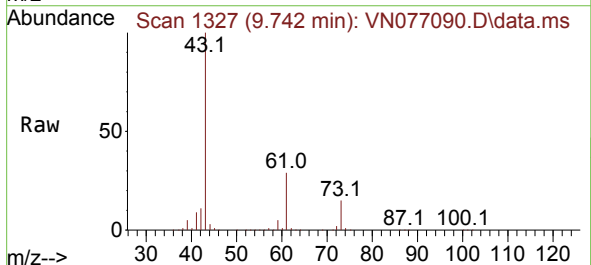
Instrument :
MSVOA_N
ClientSampleId :
IRV-1

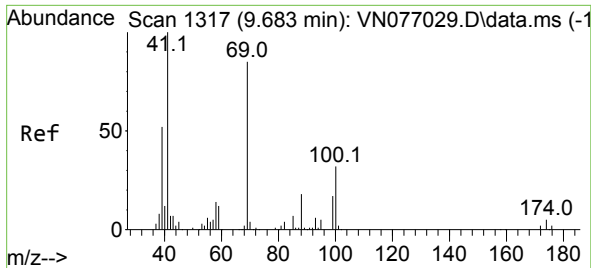
Tgt Ion: 43 Resp: 461461
Ion Ratio Lower Upper
43 100
61 15.3 20.6 30.8#
87 9.7 10.0 15.0#



#45
1,2-Dichloropropane
Concen: 0.657 ug/l
RT: 9.742 min Scan# 1327
Delta R.T. 0.118 min
Lab File: VN077090.D
Acq: 21 Mar 2023 15:05

Tgt Ion: 63 Resp: 4660
Ion Ratio Lower Upper
63 100
65 0.0 25.5 38.3#

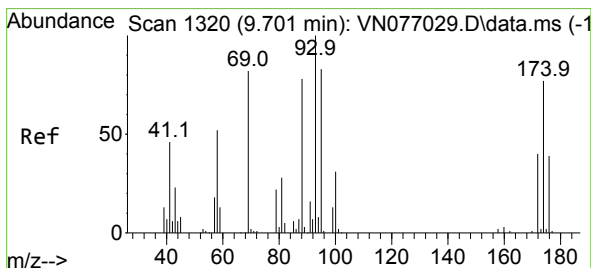
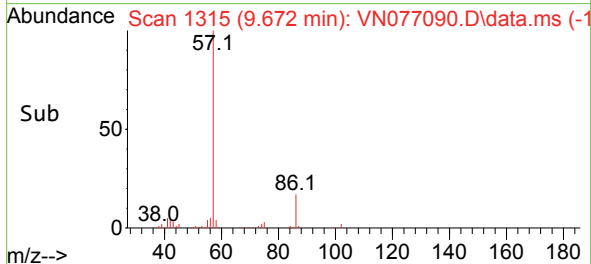
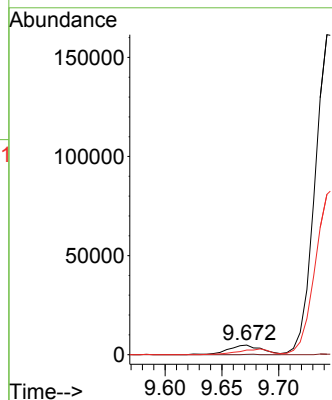
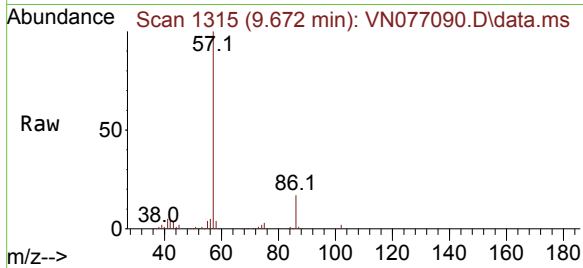




#48
Methyl methacrylate
Concen: 1.426 ug/l
RT: 9.672 min Scan# 1315
Delta R.T. -0.012 min
Lab File: VN077090.D
Acq: 21 Mar 2023 15:05

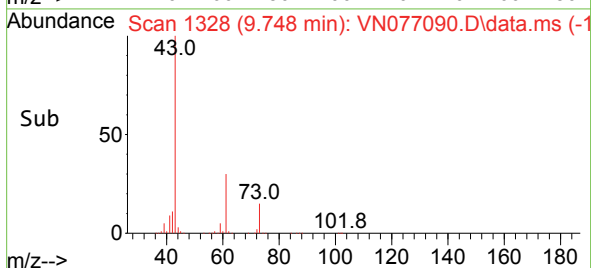
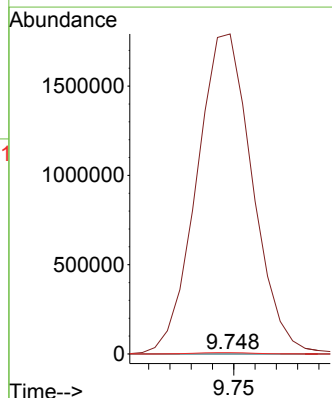
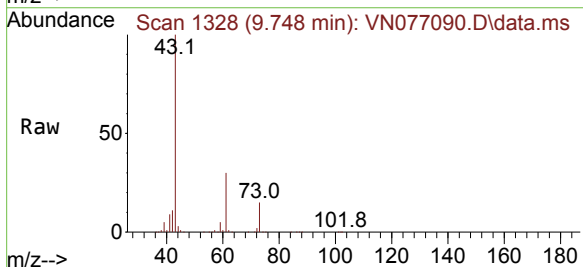
Instrument :
MSVOA_N
ClientSampleId :
IRV-1

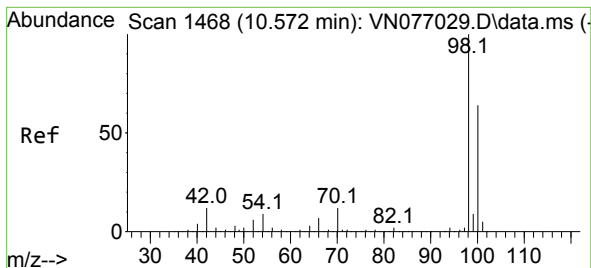
Tgt Ion: 41 Resp: 10035
Ion Ratio Lower Upper
41 100
69 1.3 64.3 96.5#
39 54.5 43.2 64.8



#49
1,4-Dioxane
Concen: 4.707 ug/l
RT: 9.748 min Scan# 1328
Delta R.T. 0.047 min
Lab File: VN077090.D
Acq: 21 Mar 2023 15:05

Tgt Ion: 88 Resp: 566
Ion Ratio Lower Upper
88 100
43 579456.5 22.2 33.2#
58 2602.7 60.8 91.2#





#50

Toluene-d8

Concen: 49.111 ug/l

RT: 10.572 min Scan# 1468

Delta R.T. 0.000 min

Lab File: VN077090.D

Acq: 21 Mar 2023 15:05

Instrument :

MSVOA_N

ClientSampleId :

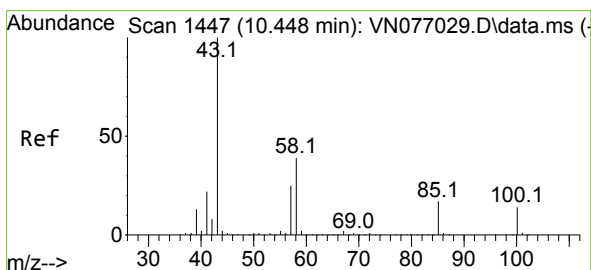
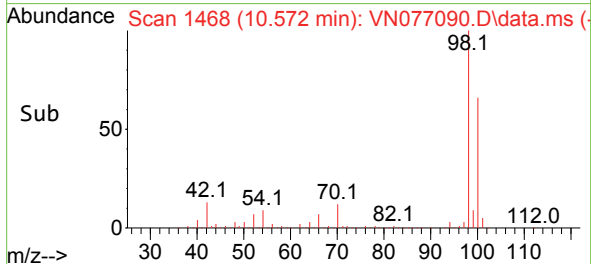
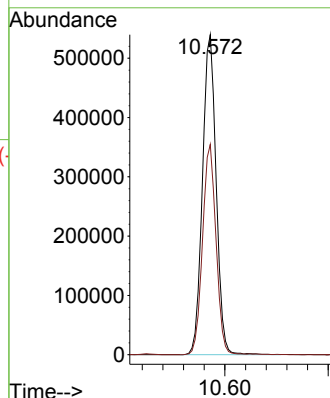
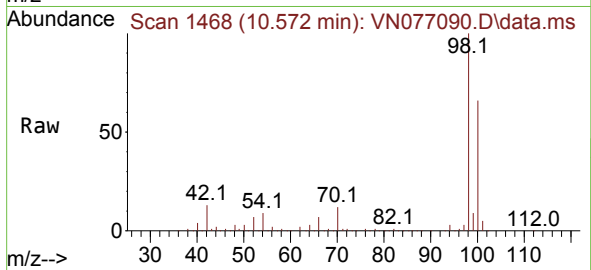
IRV-1

Tgt Ion: 98 Resp: 989524

Ion Ratio Lower Upper

98 100

100 64.8 51.6 77.4



#51

4-Methyl-2-Pentanone

Concen: 1.536 ug/l

RT: 10.448 min Scan# 1447

Delta R.T. 0.000 min

Lab File: VN077090.D

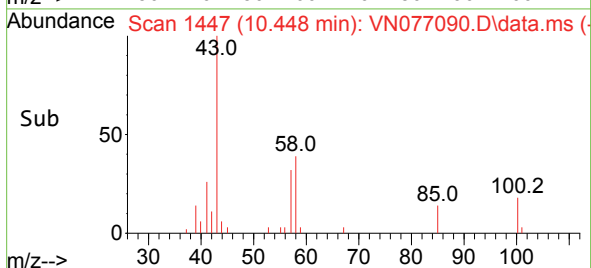
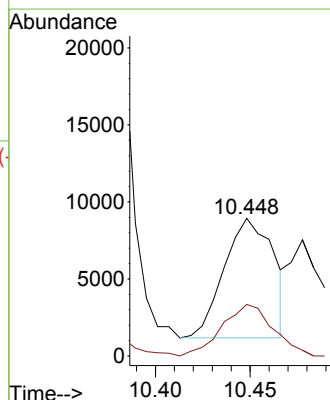
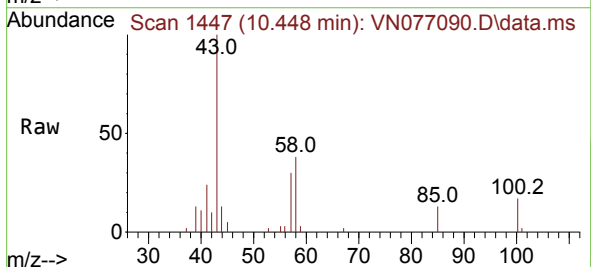
Acq: 21 Mar 2023 15:05

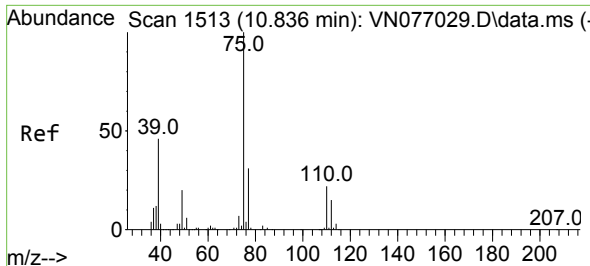
Tgt Ion: 43 Resp: 14089

Ion Ratio Lower Upper

43 100

58 44.5 31.1 46.7

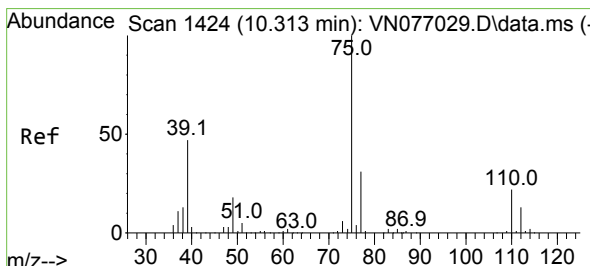
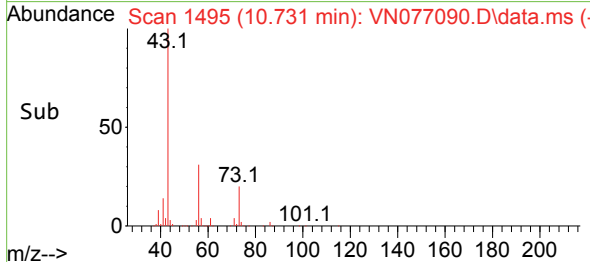
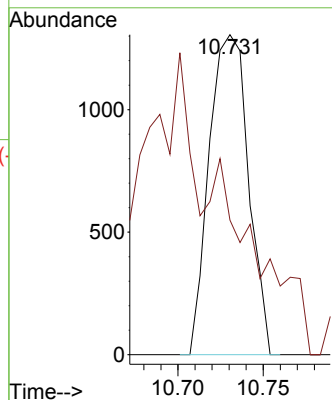
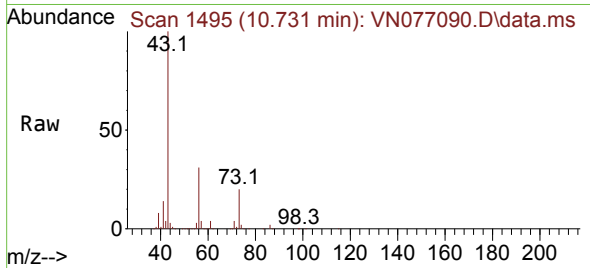




#53
 t-1,3-Dichloropropene
 Concen: 0.228 ug/l
 RT: 10.731 min Scan# 1495
 Delta R.T. -0.106 min
 Lab File: VN077090.D
 Acq: 21 Mar 2023 15:05

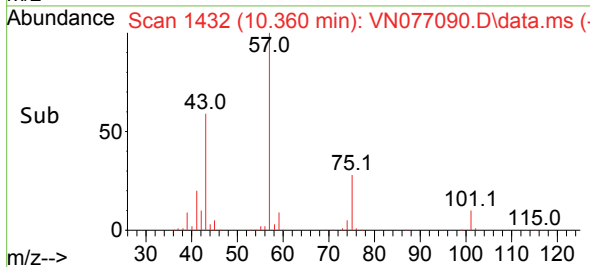
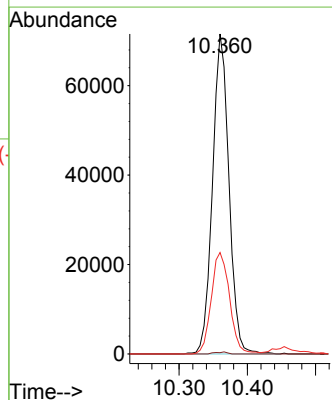
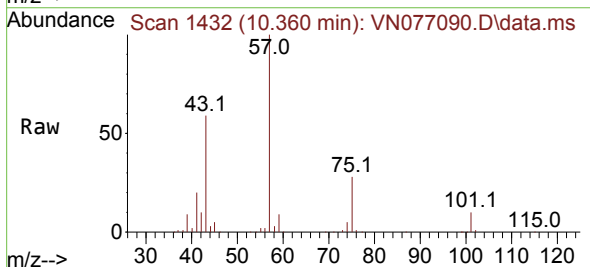
Instrument :
 MSVOA_N
 ClientSampleId :
 IRV-1

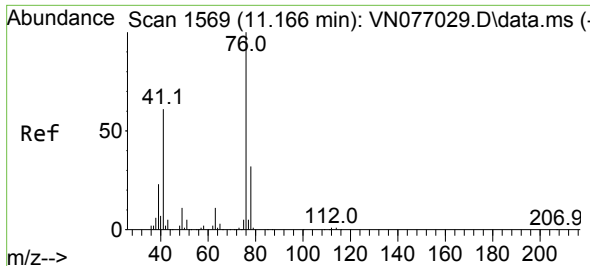
Tgt Ion: 75 Resp: 2095
 Ion Ratio Lower Upper
 75 100
 77 20.6 25.1 37.7#



#54
 cis-1,3-Dichloropropene
 Concen: 11.574 ug/l
 RT: 10.360 min Scan# 1432
 Delta R.T. 0.047 min
 Lab File: VN077090.D
 Acq: 21 Mar 2023 15:05

Tgt Ion: 75 Resp: 120136
 Ion Ratio Lower Upper
 75 100
 77 0.4 24.5 36.7#
 39 31.7 37.8 56.6#





#57

1,3-Dichloropropane

Concen: 1.309 ug/l

RT: 11.207 min Scan# 1576

Delta R.T. 0.041 min

Lab File: VN077090.D

Acq: 21 Mar 2023 15:05

Instrument :

MSVOA_N

ClientSampleId :

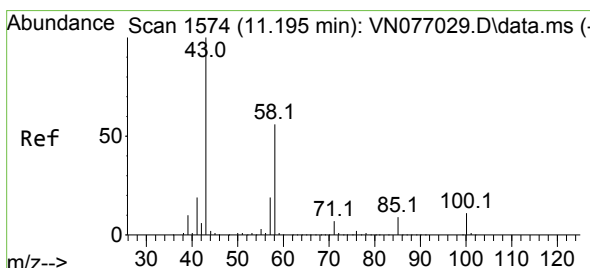
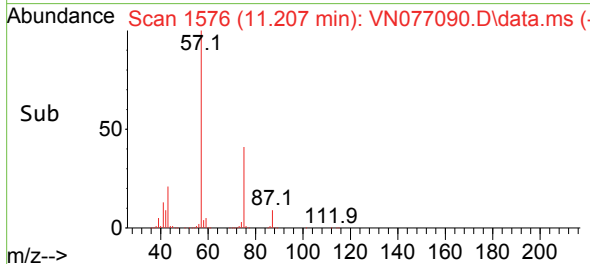
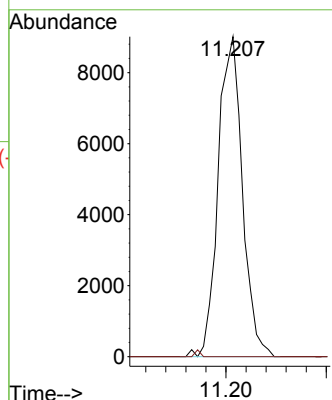
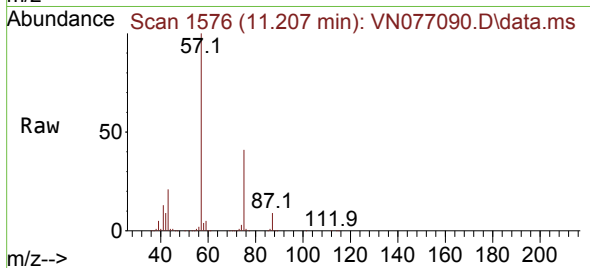
IRV-1

Tgt Ion: 76 Resp: 15080

Ion Ratio Lower Upper

76 100

78 0.0 25.3 37.9#



#59

2-Hexanone

Concen: 46.200 ug/l

RT: 11.172 min Scan# 1570

Delta R.T. -0.023 min

Lab File: VN077090.D

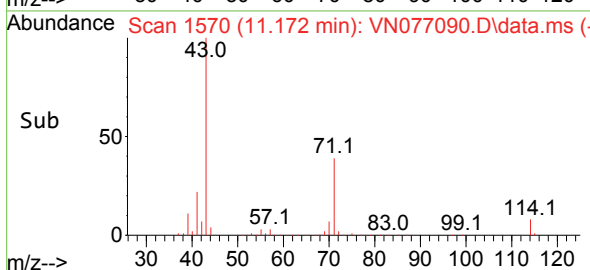
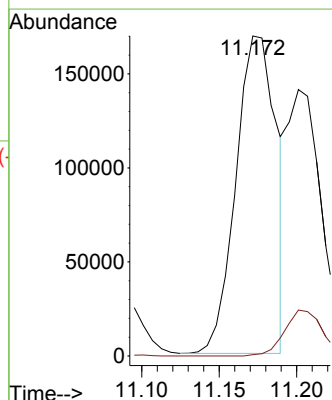
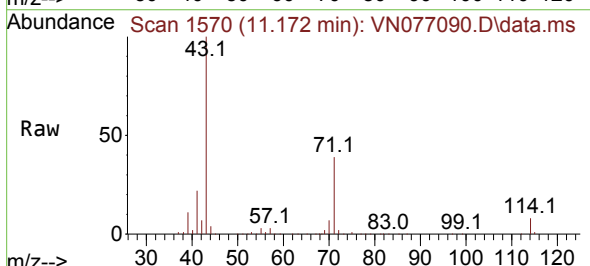
Acq: 21 Mar 2023 15:05

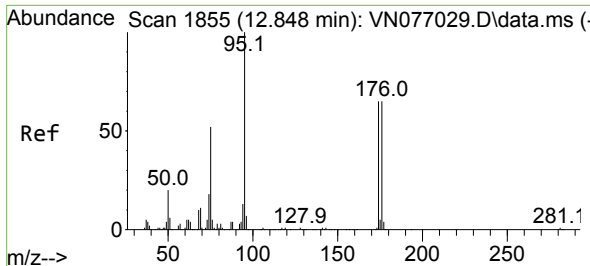
Tgt Ion: 43 Resp: 307273

Ion Ratio Lower Upper

43 100

58 0.0 27.7 83.1#

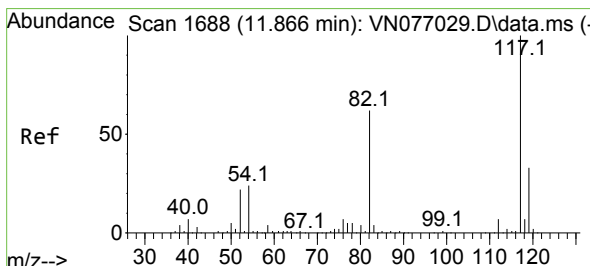
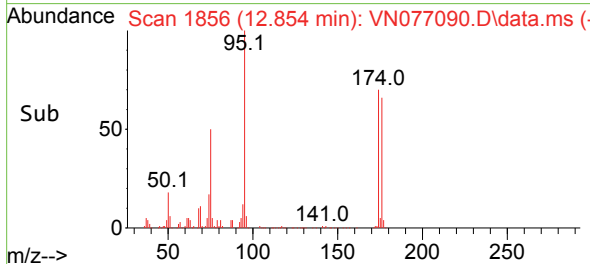
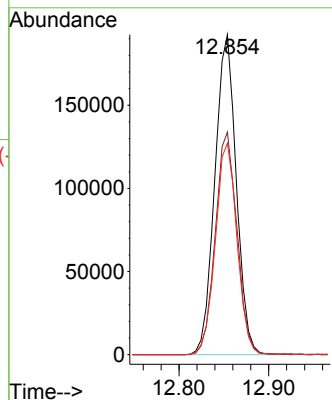
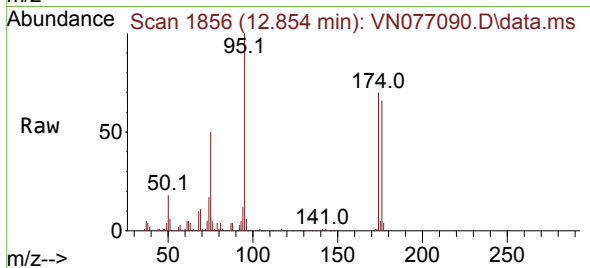




#62
4-Bromofluorobenzene
Concen: 44.855 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077090.D
Acq: 21 Mar 2023 15:05

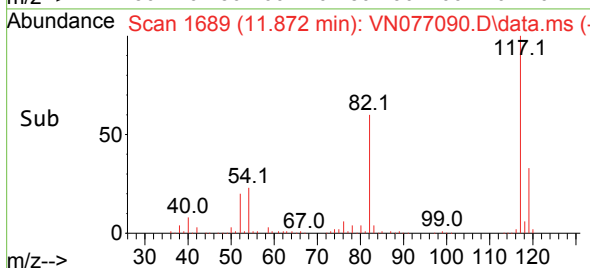
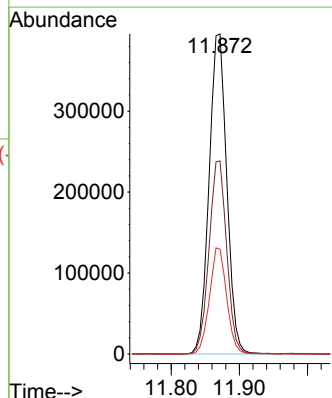
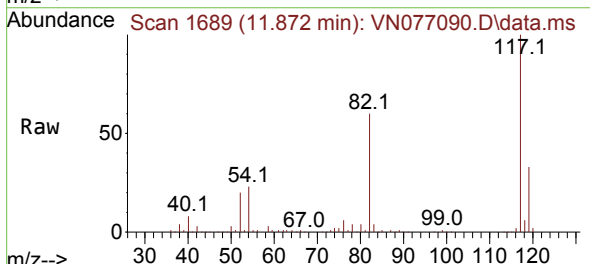
Instrument :
MSVOA_N
ClientSampleId :
IRV-1

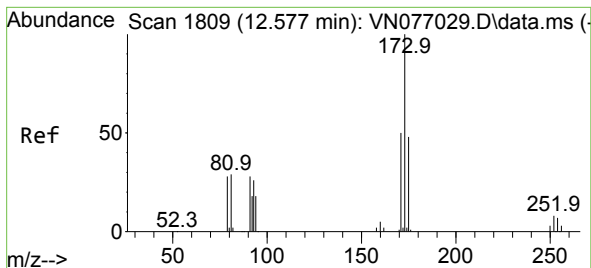
Tgt Ion: 95 Resp: 319359
Ion Ratio Lower Upper
95 100
174 70.4 0.0 136.6
176 66.7 0.0 130.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.872 min Scan# 1689
Delta R.T. 0.006 min
Lab File: VN077090.D
Acq: 21 Mar 2023 15:05

Tgt Ion: 117 Resp: 714501
Ion Ratio Lower Upper
117 100
82 60.3 49.4 74.0
119 32.7 26.5 39.7





#71

Bromoform

Concen: 0.428 ug/l

RT: 12.848 min Scan# 1809

Delta R.T. 0.271 min

Lab File: VN077090.D

Acq: 21 Mar 2023 15:05

Instrument :

MSVOA_N

ClientSampleId :

IRV-1

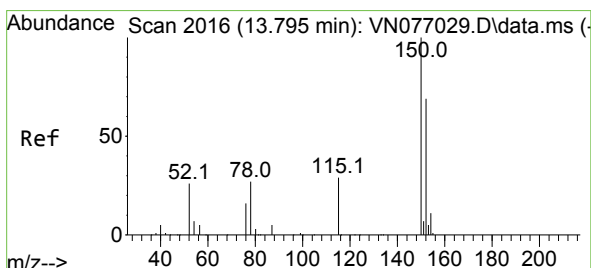
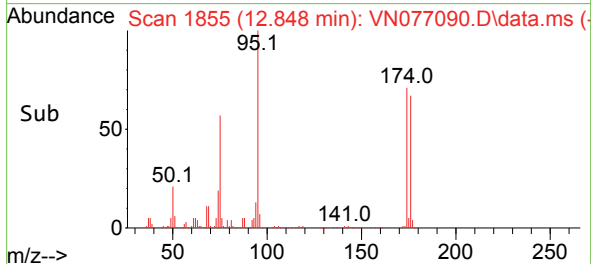
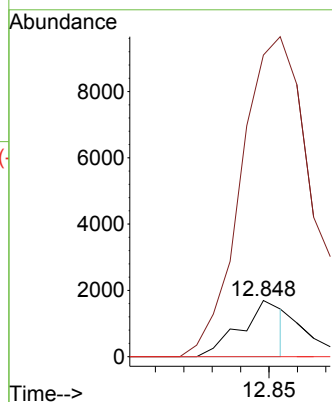
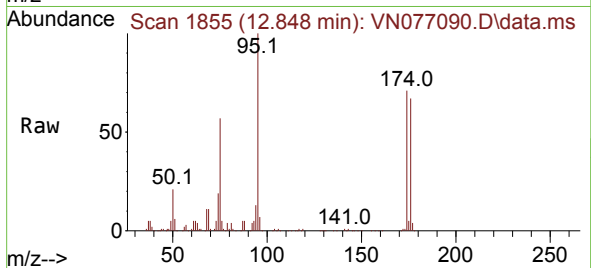
Tgt Ion:173 Resp: 1765

Ion Ratio Lower Upper

173 100

175 0.0 24.5 73.5#

254 0.0 0.1 0.1#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.795 min Scan# 2016

Delta R.T. 0.000 min

Lab File: VN077090.D

Acq: 21 Mar 2023 15:05

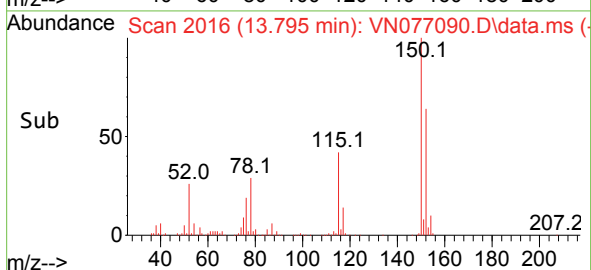
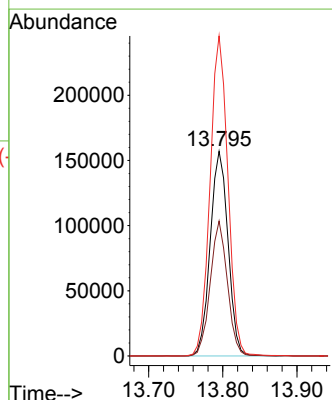
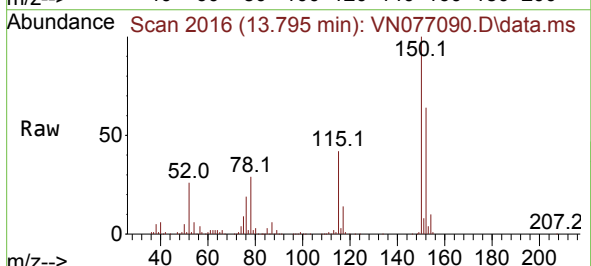
Tgt Ion:152 Resp: 262479

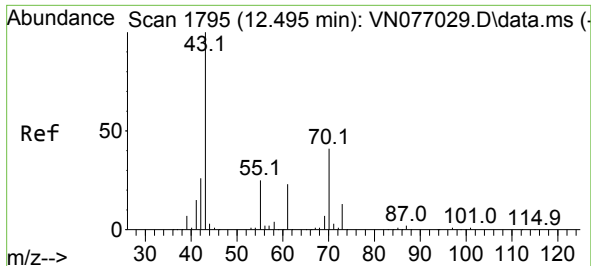
Ion Ratio Lower Upper

152 100

115 63.4 31.9 95.7

150 156.4 0.0 348.0

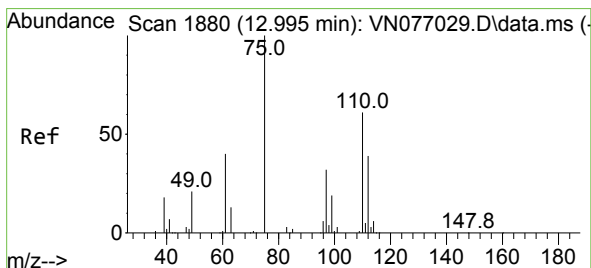
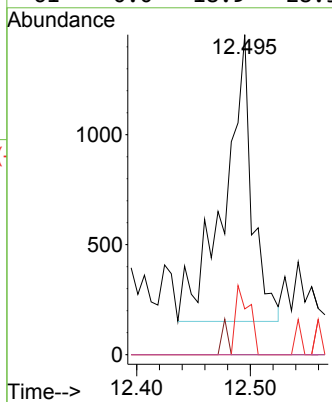
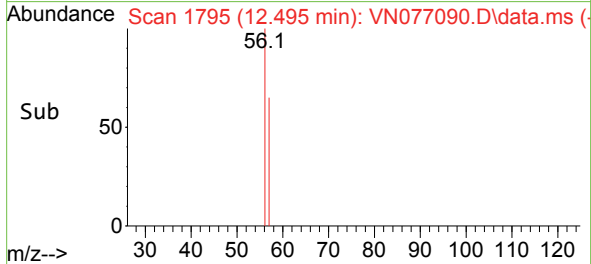
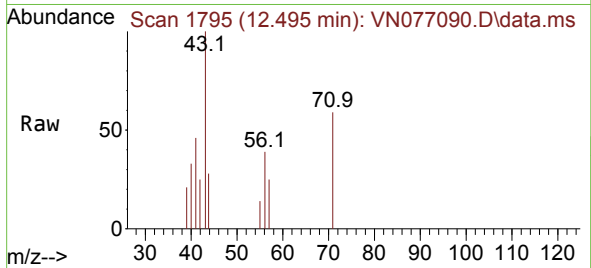




#74
N-amy1 acetate
Concen: 0.217 ug/l
RT: 12.495 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN077090.D
Acq: 21 Mar 2023 15:05

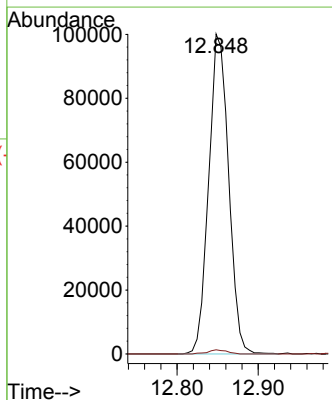
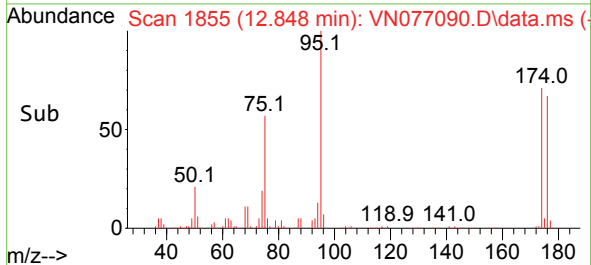
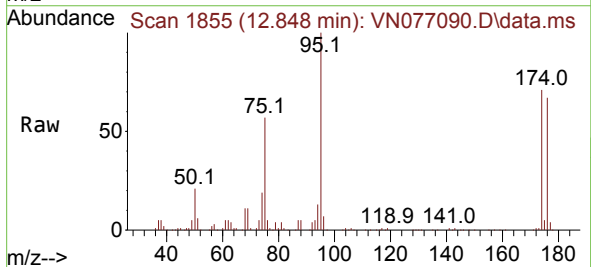
Instrument :
MSVOA_N
ClientSampleId :
IRV-1

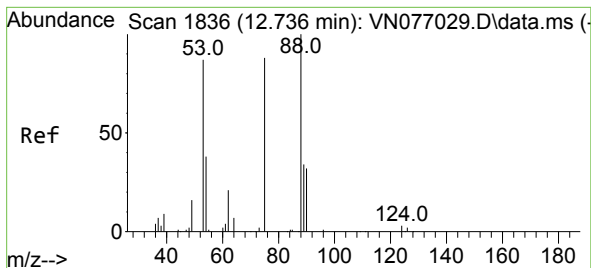
Tgt Ion:	43	Resp:	2214
Ion	Ratio	Lower	Upper
43	100		
70	2.6	33.6	50.4#
55	12.0	20.3	30.5#
61	0.0	18.9	28.3#



#76
1,2,3-Trichloropropane
Concen: 25.111 ug/l
RT: 12.848 min Scan# 1855
Delta R.T. -0.147 min
Lab File: VN077090.D
Acq: 21 Mar 2023 15:05

Tgt Ion:	75	Resp:	170490
Ion	Ratio	Lower	Upper
75	100		
77	1.2	107.3	322.0#

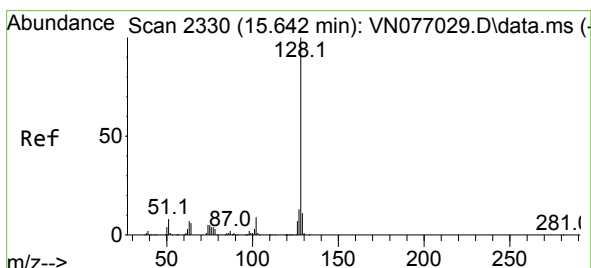
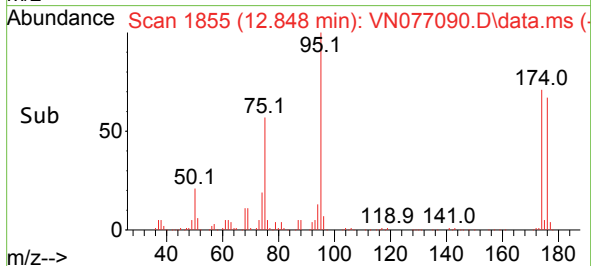
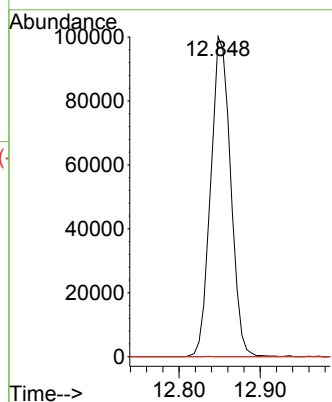
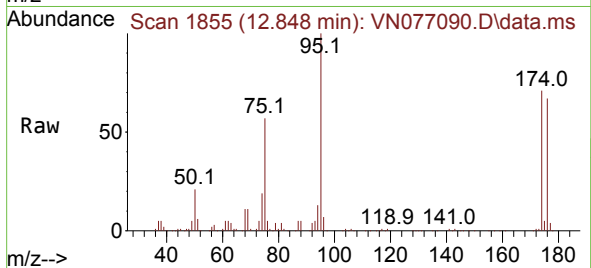




#81
trans-1,4-Dichloro-2-butene
Concen: 69.120 ug/l
RT: 12.848 min Scan# 1836
Delta R.T. 0.112 min
Lab File: VN077090.D
Acq: 21 Mar 2023 15:05

Instrument :
MSVOA_N
ClientSampleId :
IRV-1

Tgt Ion: 75 Resp: 170490
Ion Ratio Lower Upper
75 100
53 0.0 80.8 121.2#
89 0.0 34.2 51.4#



#95
Naphthalene
Concen: 2.002 ug/l
RT: 15.654 min Scan# 2332
Delta R.T. 0.012 min
Lab File: VN077090.D
Acq: 21 Mar 2023 15:05

Tgt Ion: 128 Resp: 1639
Ion Ratio Lower Upper
128 100
127 3.5 10.0 15.0#
129 7.6 8.6 13.0#

