

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042423\
 Data File : VN077450.D
 Acq On : 25 Apr 2023 06:05
 Operator : JC\MD
 Sample : PB152304ZHE#01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB152304ZHE#01

Quant Time: Apr 25 08:41:43 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N042423W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 25 02:50:59 2023
 Response via : Initial Calibration

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

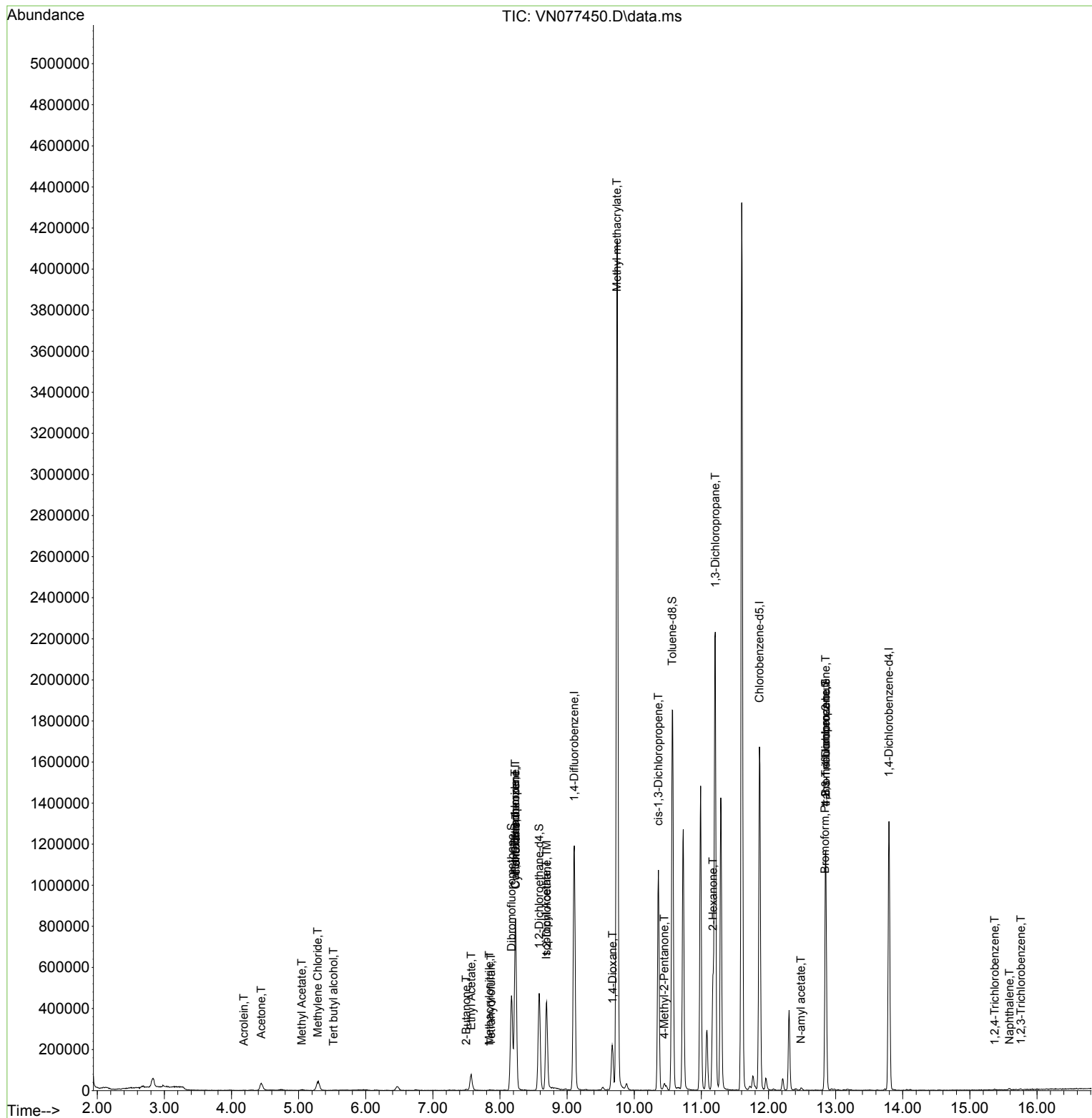
Internal Standards						
1) Pentafluorobenzene	8.230	168	596595	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	1106376	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	1011894	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	358006	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	385685	49.543	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	99.080%
35) Dibromofluoromethane	8.172	113	327763	49.289	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	98.580%
50) Toluene-d8	10.566	98	1354359	53.141	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	106.280%
62) 4-Bromofluorobenzene	12.854	95	426001	51.089	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	102.180%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.519	59	496	0.397	ug/l #	78
13) Acrolein	4.184	56	291	0.234	ug/l #	16
16) Acetone	4.442	43	65097	26.284	ug/l	97
18) Methyl Acetate	5.048	43	6085	0.636	ug/l	88
20) Methylene Chloride	5.284	84	39907	5.081	ug/l #	96
25) 2-Butanone	7.495	43	6783	1.931	ug/l	100
29) Tetrahydrofuran	7.866	42	1943	0.883	ug/l #	82
31) Cyclohexane	8.236	56	14310	1.298	ug/l #	53
36) 1,1-Dichloropropene	8.230	75	53224	5.540	ug/l #	49
37) Ethyl Acetate	7.572	43	104885	14.367	ug/l	99
38) Carbon Tetrachloride	8.225	117	63780	6.017	ug/l #	15
41) Methacrylonitrile	7.842	41	1139	0.300	ug/l #	23
42) 1,2-Dichloroethane	8.695	62	3632	0.361	ug/l	79
43) Isopropyl Acetate	8.689	43	478181	37.862	ug/l #	90
48) Methyl methacrylate	9.742	41	363499	63.230	ug/l #	30
49) 1,4-Dioxane	9.677	88	112	0.777	ug/l #	1
51) 4-Methyl-2-Pentanone	10.448	43	17861	2.411	ug/l	88
54) cis-1,3-Dichloropropene	10.360	75	219209	18.484	ug/l #	63
57) 1,3-Dichloropropane	11.207	76	26823	2.184	ug/l #	43
59) 2-Hexanone	11.171	43	397135	73.754	ug/l #	19
71) Bromoform	12.842	173	1329	0.261	ug/l #	28
74) N-amyl acetate	12.483	43	4582	0.466	ug/l #	44
76) 1,2,3-Trichloropropane	12.854	75	231158	27.767	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	231158	78.445	ug/l #	15
93) 1,2,4-Trichlorobenzene	15.371	180	930	1.155	ug/l	86
95) Naphthalene	15.589	128	5073	1.667	ug/l #	92
96) 1,2,3-Trichlorobenzene	15.759	180	1153	0.958	ug/l	92

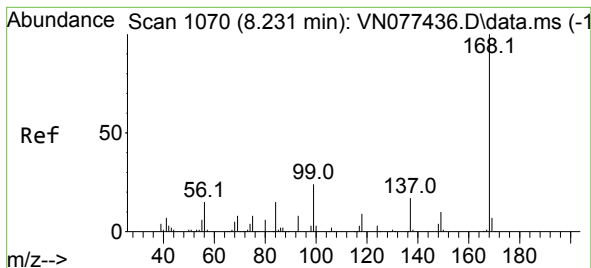
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042423\
Data File : VN077450.D
Acq On : 25 Apr 2023 06:05
Operator : JC\MD
Sample : PB152304ZHE#01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
PB152304ZHE#01

Quant Time: Apr 25 08:41:43 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N042423W.M
Quant Title : SW846 8260
QLast Update : Tue Apr 25 02:50:59 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.001 min

Lab File: VN077450.D

Acq: 25 Apr 2023 06:05

Instrument :

MSVOA_N

ClientSampleId :

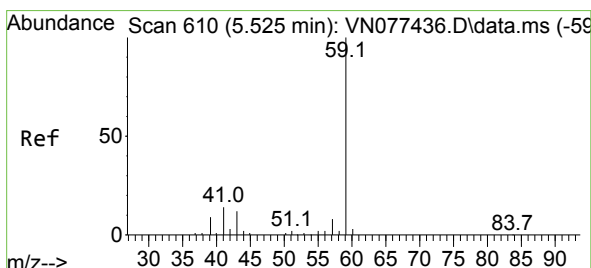
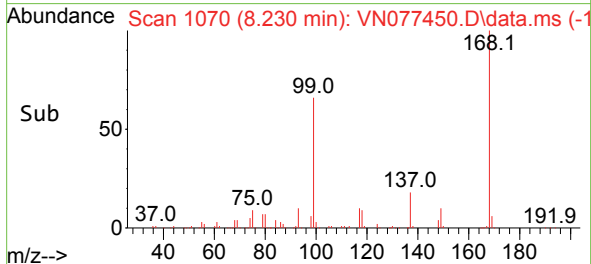
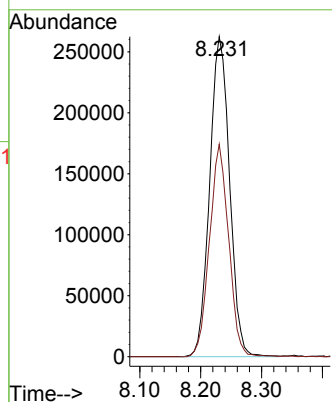
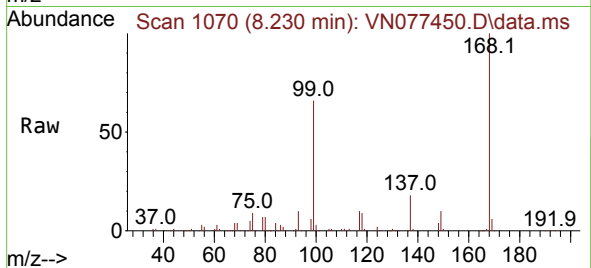
PB152304ZHE#01

Tgt Ion:168 Resp: 596595

Ion Ratio Lower Upper

168 100

99 66.4 53.0 79.6



#11

Tert butyl alcohol

Concen: 0.397 ug/l

RT: 5.519 min Scan# 609

Delta R.T. -0.006 min

Lab File: VN077450.D

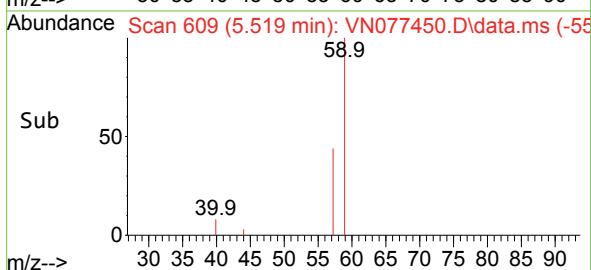
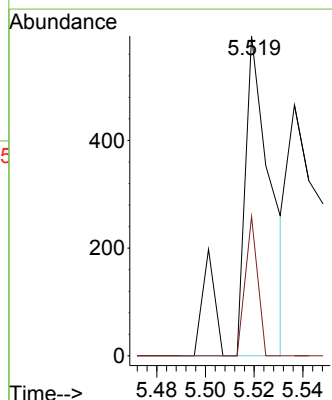
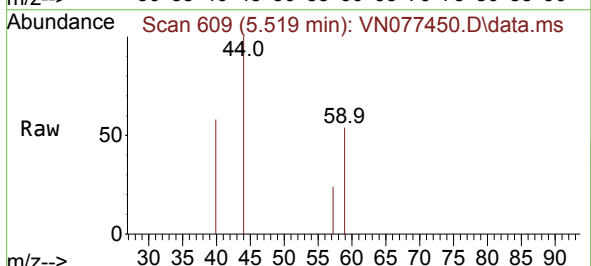
Acq: 25 Apr 2023 06:05

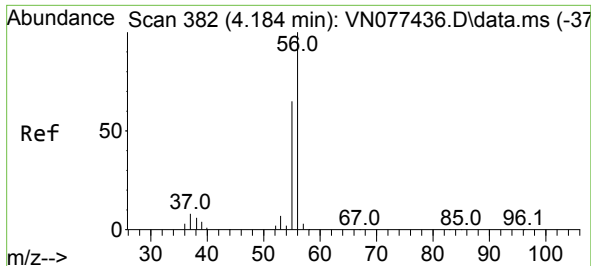
Tgt Ion: 59 Resp: 496

Ion Ratio Lower Upper

59 100

57 18.3 8.2 12.4#

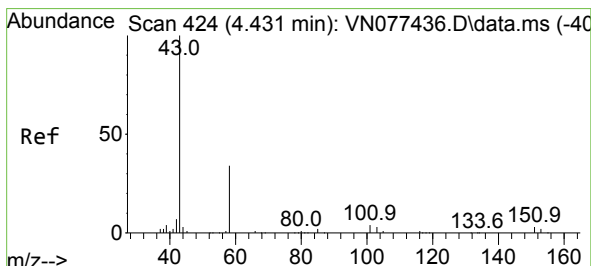
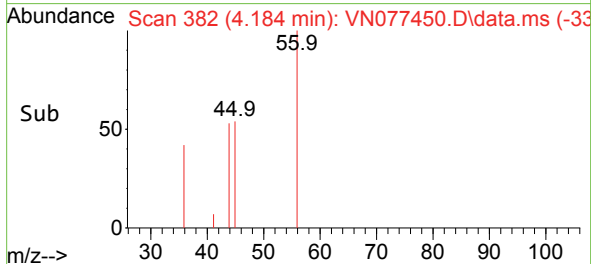
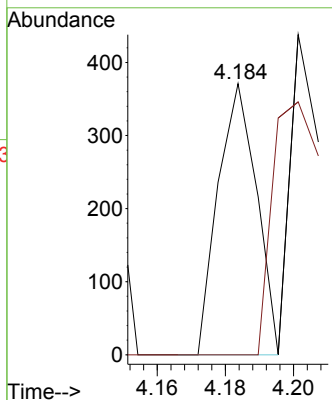
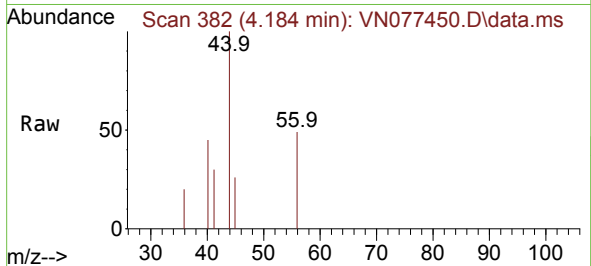




#13
Acrolein
Concen: 0.234 ug/l
RT: 4.184 min Scan# 382
Delta R.T. -0.000 min
Lab File: VN077450.D
Acq: 25 Apr 2023 06:05

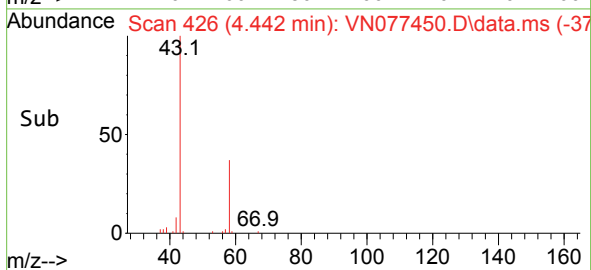
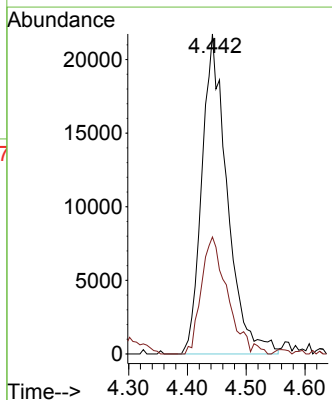
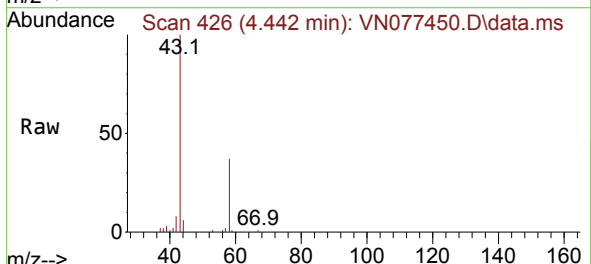
Instrument :
MSVOA_N
ClientSampleId :
PB152304ZHE#01

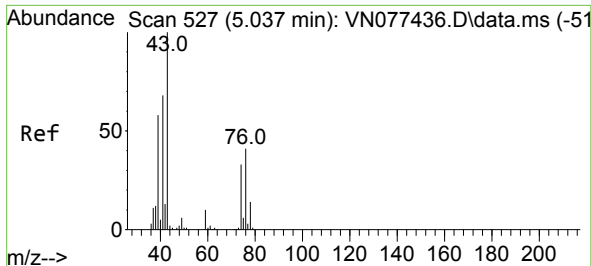
Tgt Ion: 56 Resp: 291
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#



#16
Acetone
Concen: 26.284 ug/l
RT: 4.442 min Scan# 426
Delta R.T. 0.012 min
Lab File: VN077450.D
Acq: 25 Apr 2023 06:05

Tgt Ion: 43 Resp: 65097
Ion Ratio Lower Upper
43 100
58 36.6 28.0 42.0

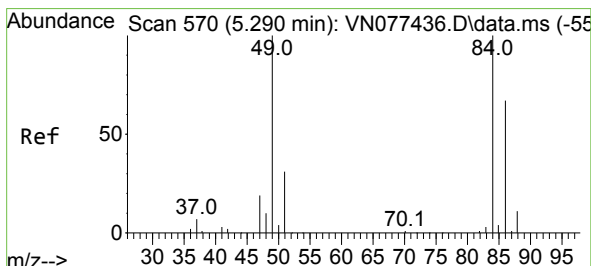
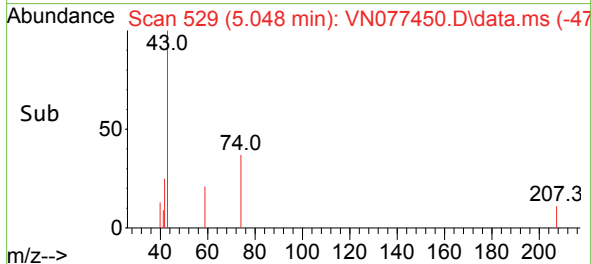
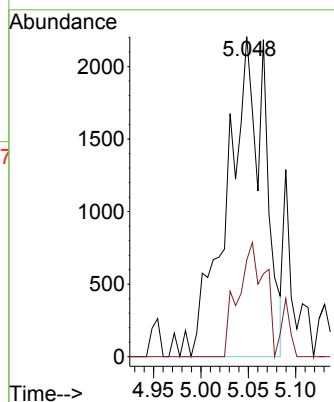
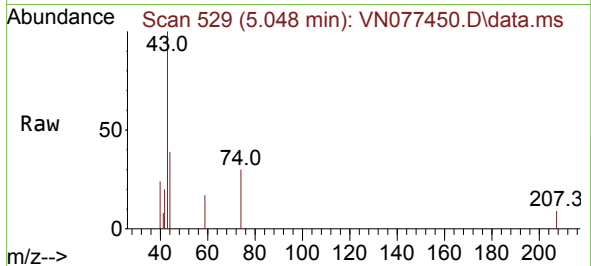




#18
Methyl Acetate
Concen: 0.636 ug/l
RT: 5.048 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN077450.D
Acq: 25 Apr 2023 06:05

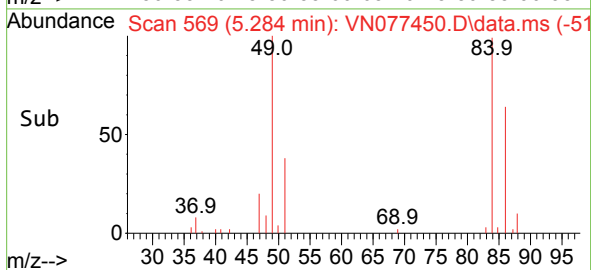
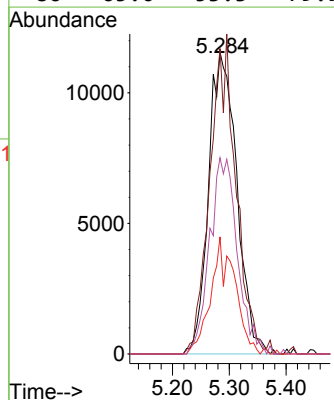
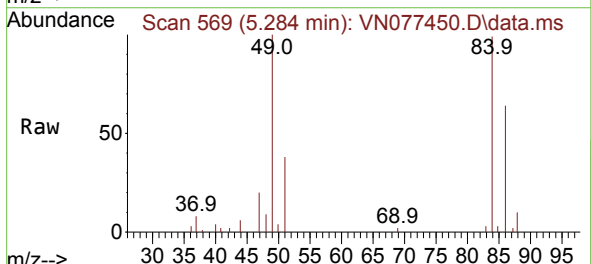
Instrument :
MSVOA_N
ClientSampleId :
PB152304ZHE#01

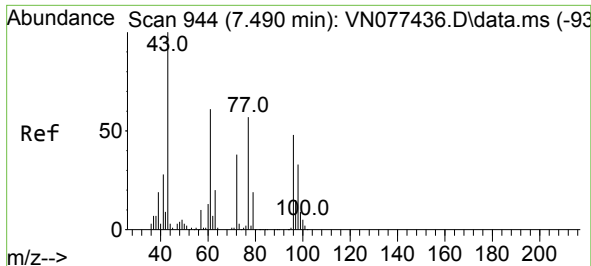
Tgt Ion: 43 Resp: 6085
Ion Ratio Lower Upper
43 100
74 26.2 26.2 39.4



#20
Methylene Chloride
Concen: 5.081 ug/l
RT: 5.284 min Scan# 569
Delta R.T. -0.006 min
Lab File: VN077450.D
Acq: 25 Apr 2023 06:05

Tgt Ion: 84 Resp: 39907
Ion Ratio Lower Upper
84 100
49 101.2 79.7 119.5
51 38.8 25.2 37.8#
86 65.0 53.3 79.9





#25

2-Butanone

Concen: 1.931 ug/l

RT: 7.495 min Scan# 94

Delta R.T. 0.006 min

Lab File: VN077450.D

Acq: 25 Apr 2023 06:05

Instrument :

MSVOA_N

ClientSampleId :

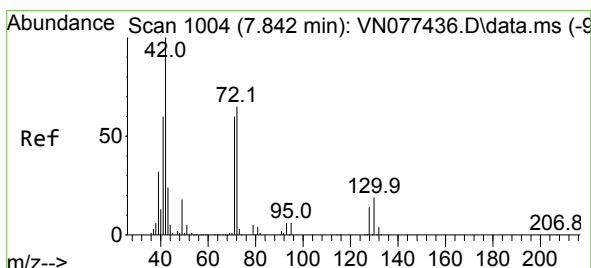
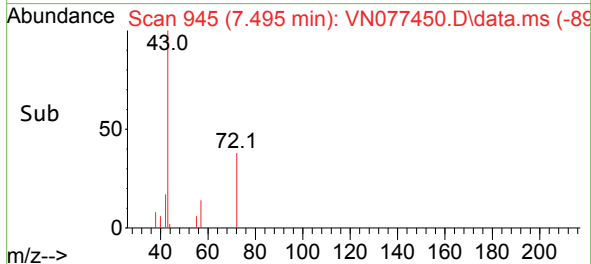
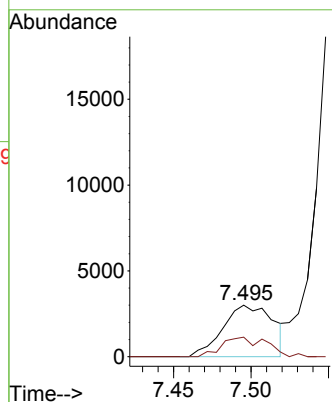
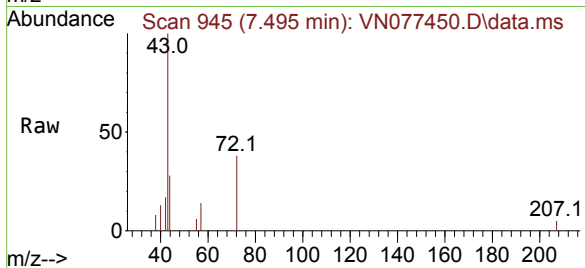
PB152304ZHE#01

Tgt Ion: 43 Resp: 6783

Ion Ratio Lower Upper

43 100

72 37.8 30.2 45.2



#29

Tetrahydrofuran

Concen: 0.883 ug/l

RT: 7.866 min Scan# 1008

Delta R.T. 0.023 min

Lab File: VN077450.D

Acq: 25 Apr 2023 06:05

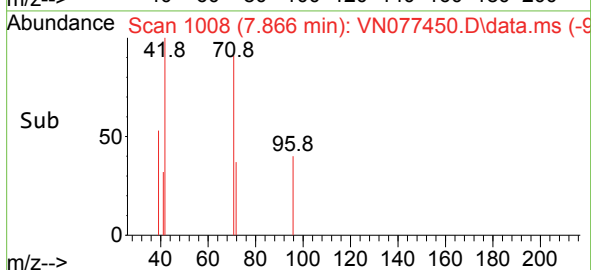
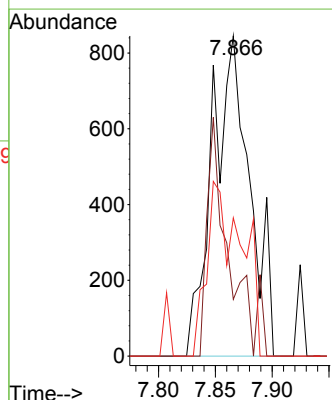
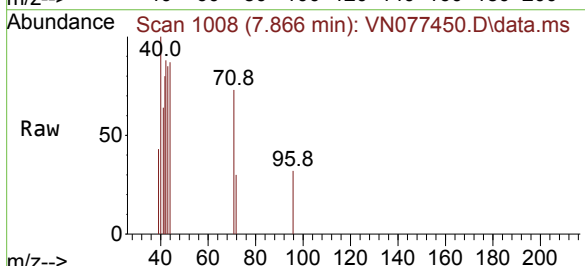
Tgt Ion: 42 Resp: 1943

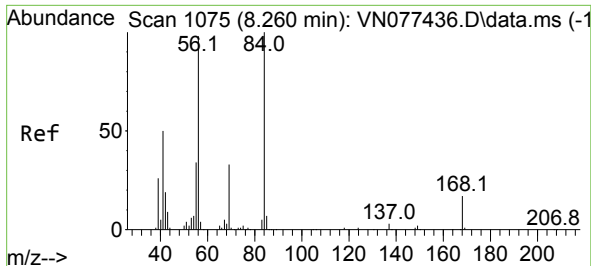
Ion Ratio Lower Upper

42 100

72 43.7 49.8 74.6#

71 50.5 47.4 71.2

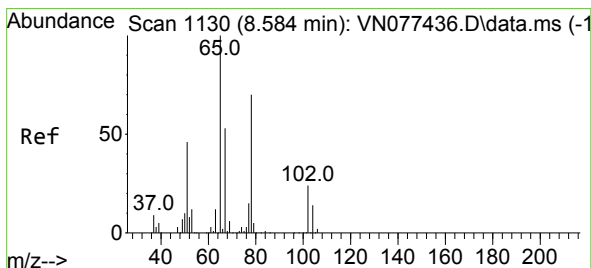
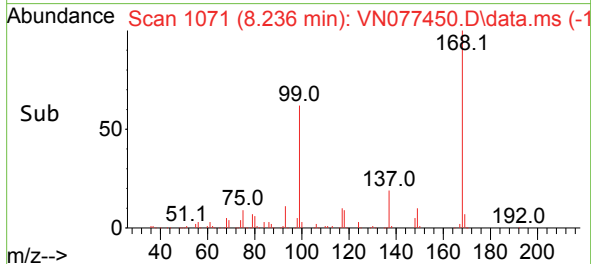
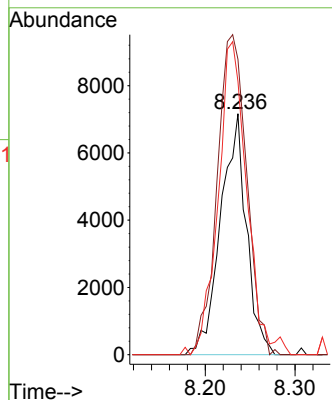
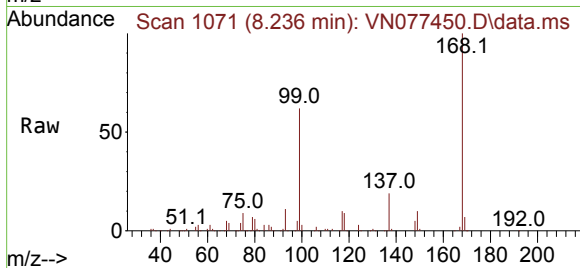




#31
Cyclohexane
Concen: 1.298 ug/l
RT: 8.236 min Scan# 1075
Delta R.T. -0.024 min
Lab File: VN077450.D
Acq: 25 Apr 2023 06:05

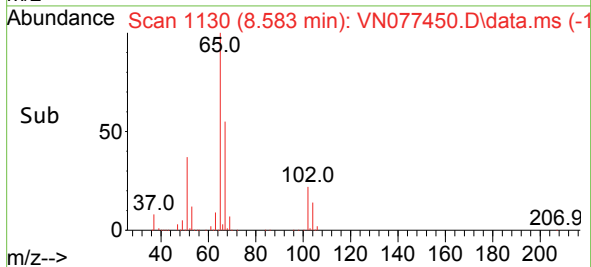
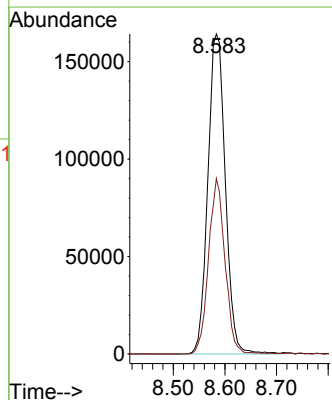
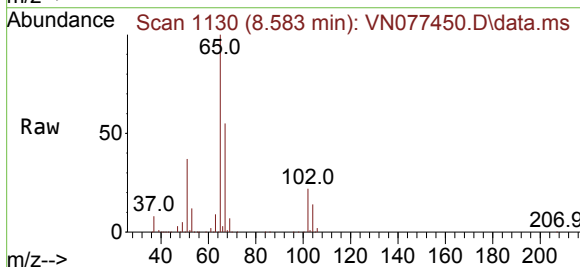
Instrument :
MSVOA_N
ClientSampleId :
PB152304ZHE#01

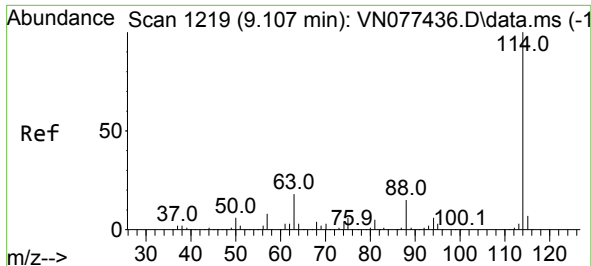
Tgt Ion: 56 Resp: 14310
Ion Ratio Lower Upper
56 100
69 122.5 26.8 40.2#
84 113.4 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 49.543 ug/l
RT: 8.583 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VN077450.D
Acq: 25 Apr 2023 06:05

Tgt Ion: 65 Resp: 385685
Ion Ratio Lower Upper
65 100
67 51.6 0.0 106.6

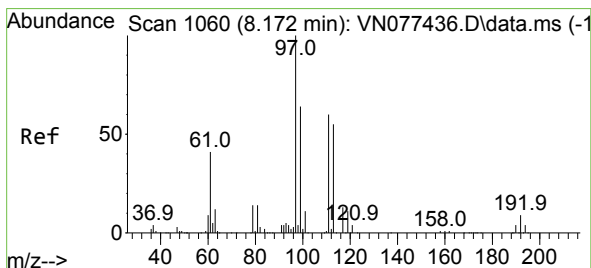
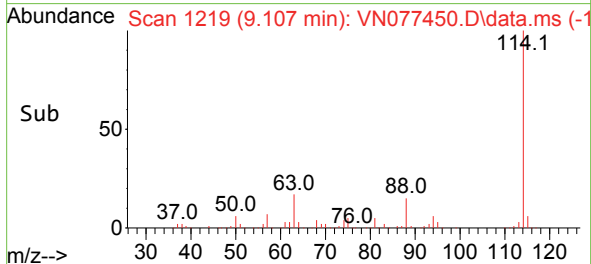
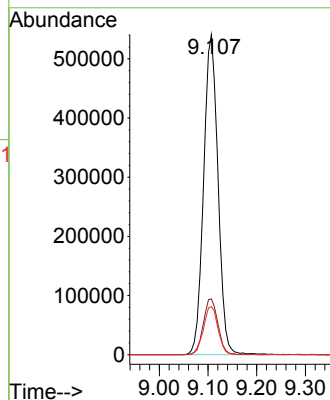
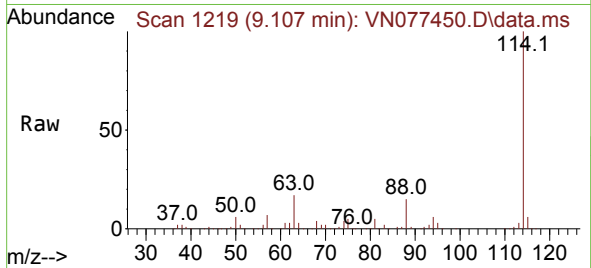




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.107 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN077450.D
Acq: 25 Apr 2023 06:05

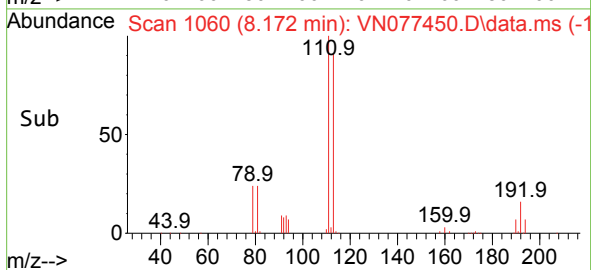
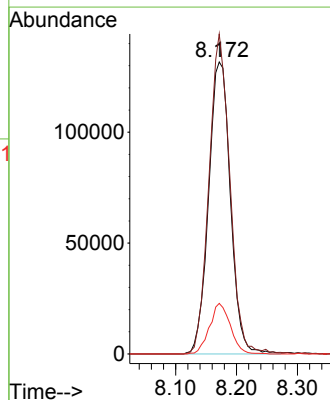
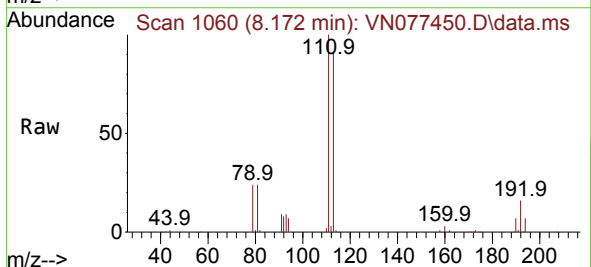
Instrument :
MSVOA_N
ClientSampleId :
PB152304ZHE#01

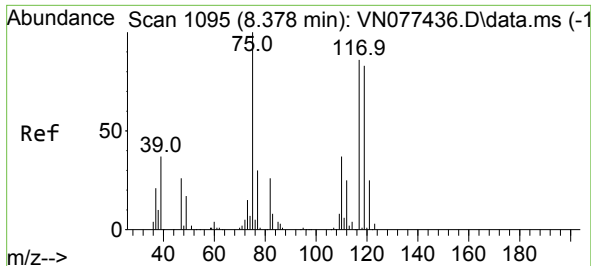
Tgt Ion:114 Resp: 1106376
Ion Ratio Lower Upper
114 100
63 17.4 0.0 36.4
88 15.0 0.0 30.6



#35
Dibromofluoromethane
Concen: 49.289 ug/l
RT: 8.172 min Scan# 1060
Delta R.T. -0.000 min
Lab File: VN077450.D
Acq: 25 Apr 2023 06:05

Tgt Ion:113 Resp: 327763
Ion Ratio Lower Upper
113 100
111 105.1 82.6 123.8
192 16.6 12.7 19.1





#36

1,1-Dichloropropene

Concen: 5.540 ug/l

RT: 8.230 min Scan# 1095

Delta R.T. -0.147 min

Lab File: VN077450.D

Acq: 25 Apr 2023 06:05

Instrument :

MSVOA_N

ClientSampleId :

PB152304ZHE#01

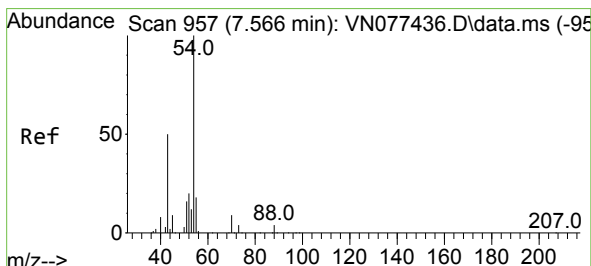
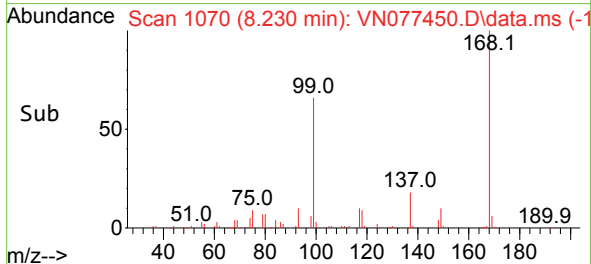
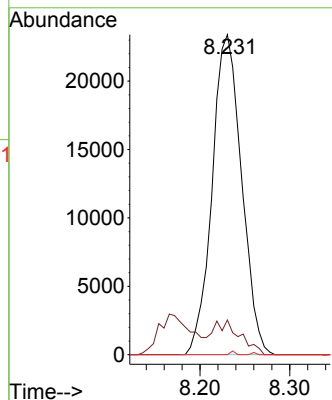
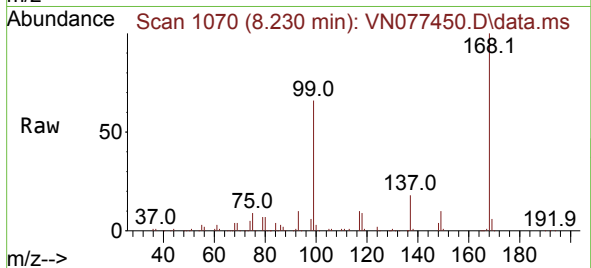
Tgt Ion: 75 Resp: 53224

Ion Ratio Lower Upper

75 100

110 9.7 19.1 57.3#

77 0.2 25.0 37.4#



#37

Ethyl Acetate

Concen: 14.367 ug/l

RT: 7.572 min Scan# 958

Delta R.T. 0.006 min

Lab File: VN077450.D

Acq: 25 Apr 2023 06:05

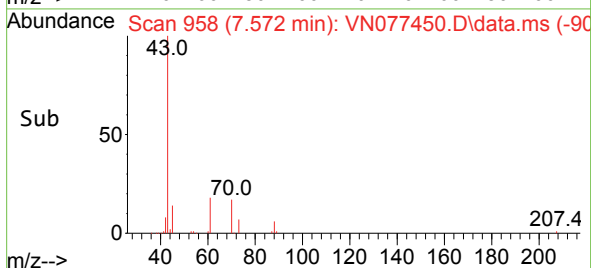
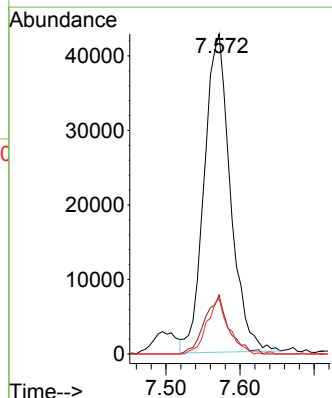
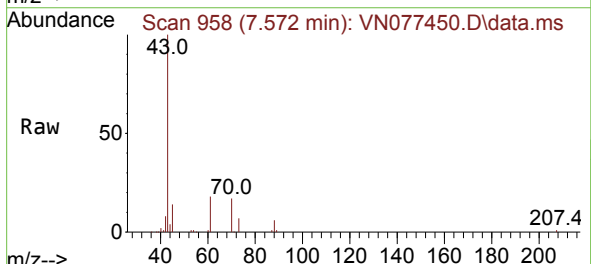
Tgt Ion: 43 Resp: 104885

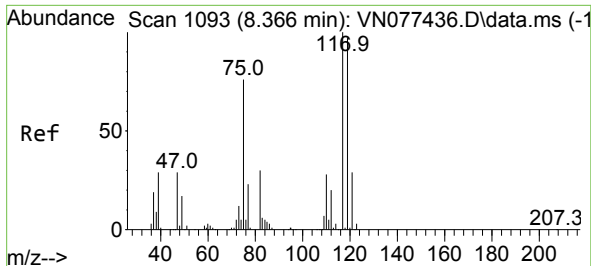
Ion Ratio Lower Upper

43 100

61 16.9 13.2 19.8

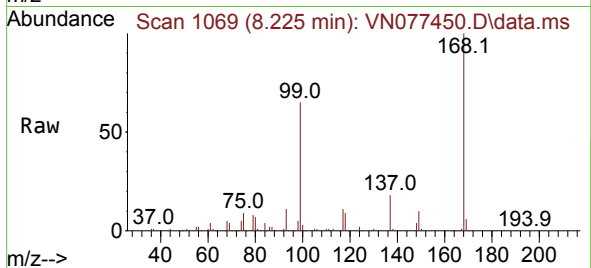
70 14.4 11.3 16.9



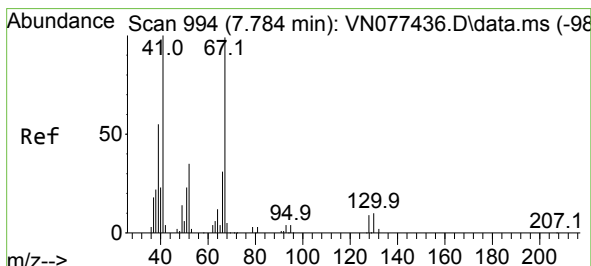
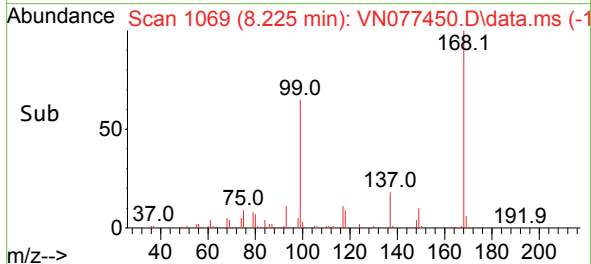
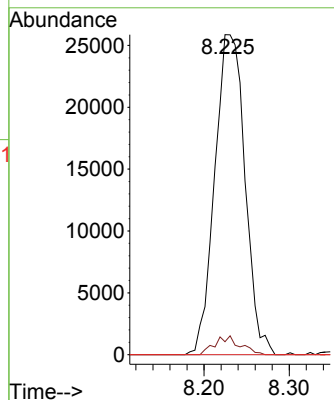


#38
Carbon Tetrachloride
Concen: 6.017 ug/l
RT: 8.225 min Scan# 1069
Delta R.T. -0.141 min
Lab File: VN077450.D
Acq: 25 Apr 2023 06:05

Instrument :
MSVOA_N
ClientSampleId :
PB152304ZHE#01

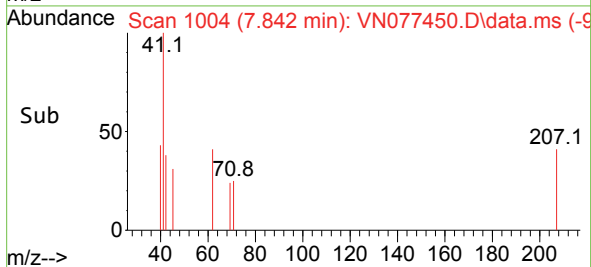
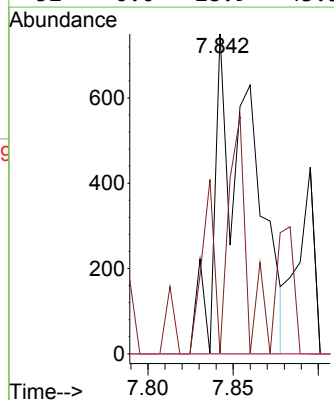
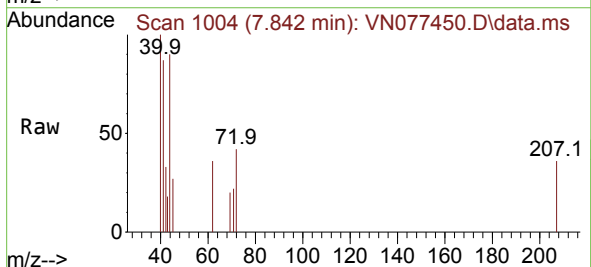


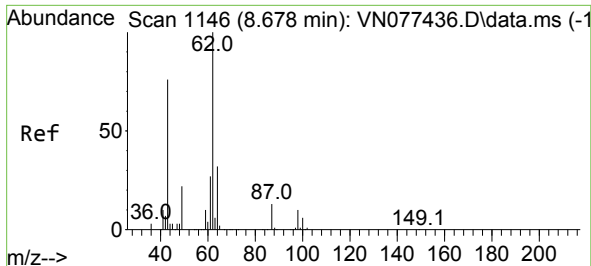
Tgt Ion:117 Resp: 63780
Ion Ratio Lower Upper
117 100
119 4.0 77.3 115.9#
121 0.0 23.3 34.9#



#41
Methacrylonitrile
Concen: 0.300 ug/l
RT: 7.842 min Scan# 1004
Delta R.T. 0.059 min
Lab File: VN077450.D
Acq: 25 Apr 2023 06:05

Tgt Ion: 41 Resp: 1139
Ion Ratio Lower Upper
41 100
39 18.4 42.6 64.0#
67 0.0 77.5 116.3#
52 0.0 28.9 43.3#





#42

1,2-Dichloroethane

Concen: 0.361 ug/l

RT: 8.695 min Scan# 1149

Delta R.T. 0.017 min

Lab File: VN077450.D

Acq: 25 Apr 2023 06:05

Instrument :

MSVOA_N

ClientSampleId :

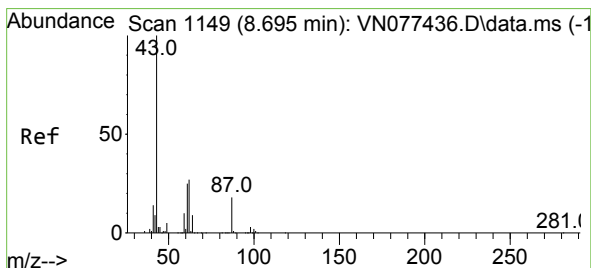
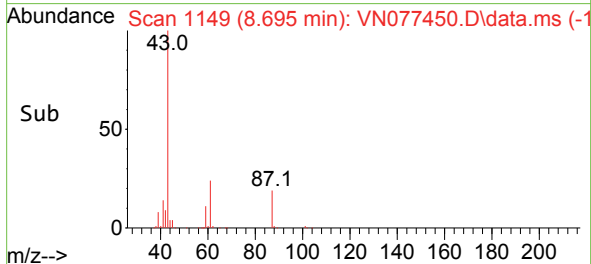
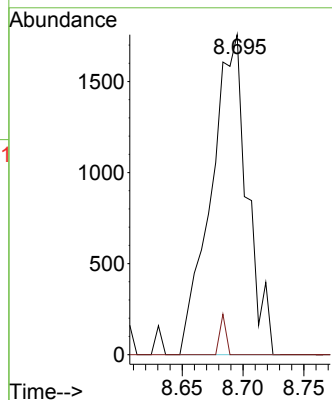
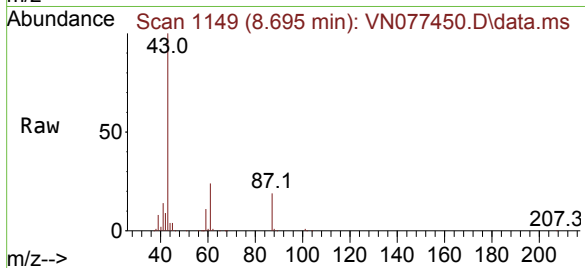
PB152304ZHE#01

Tgt Ion: 62 Resp: 3632

Ion Ratio Lower Upper

62 100

98 2.1 0.0 19.8



#43

Isopropyl Acetate

Concen: 37.862 ug/l

RT: 8.689 min Scan# 1148

Delta R.T. -0.006 min

Lab File: VN077450.D

Acq: 25 Apr 2023 06:05

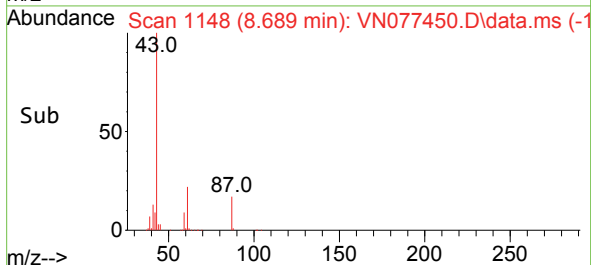
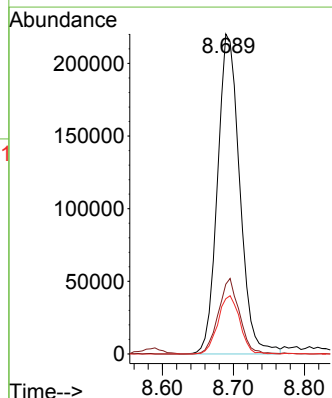
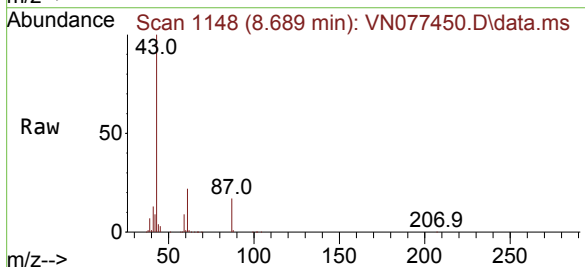
Tgt Ion: 43 Resp: 478181

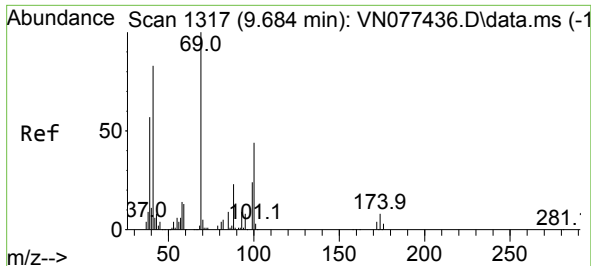
Ion Ratio Lower Upper

43 100

61 22.3 24.7 37.1#

87 17.9 14.6 21.8

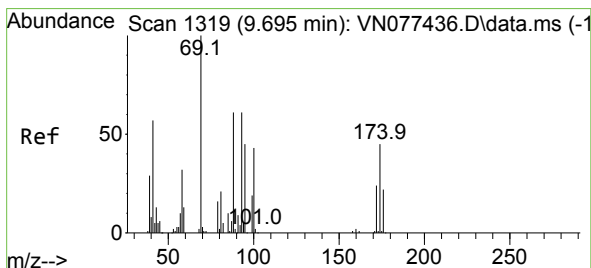
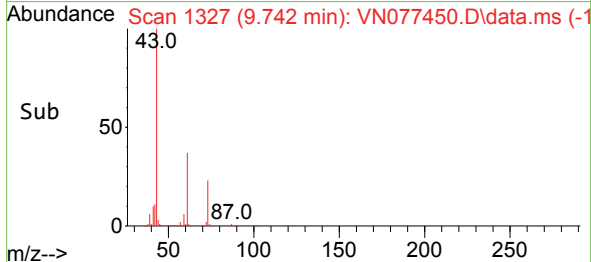
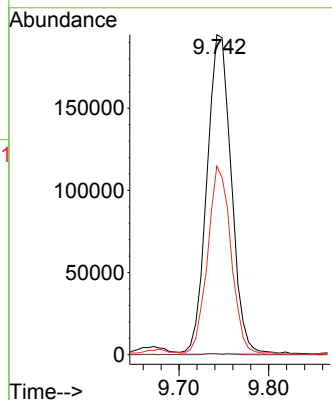
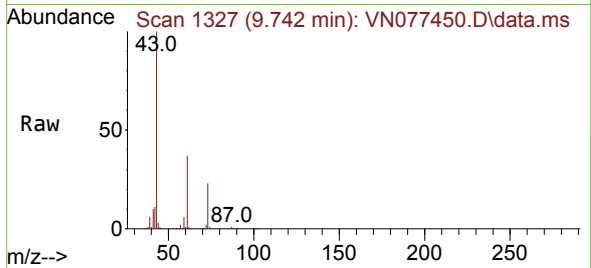




#48
Methyl methacrylate
Concen: 63.230 ug/l
RT: 9.742 min Scan# 11
Delta R.T. 0.059 min
Lab File: VN077450.D
Acq: 25 Apr 2023 06:05

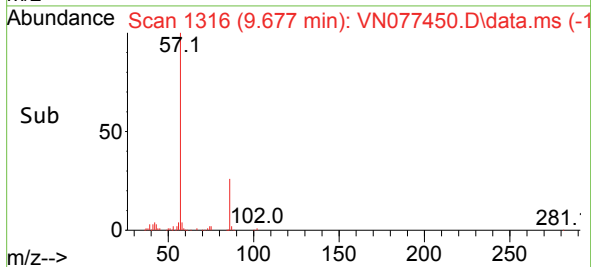
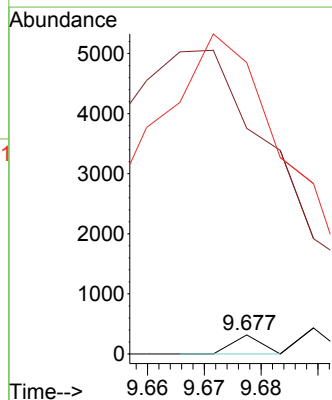
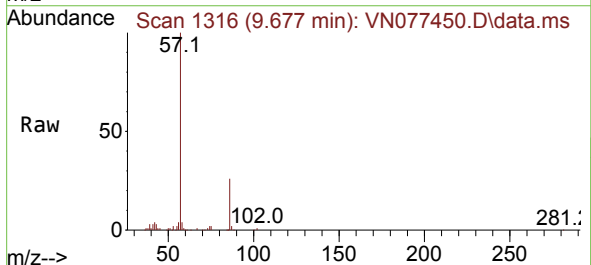
Instrument :
MSVOA_N
ClientSampleId :
PB152304ZHE#01

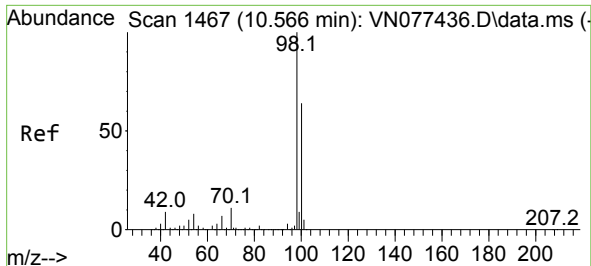
Tgt Ion: 41 Resp: 363499
Ion Ratio Lower Upper
41 100
69 0.3 90.4 135.6#
39 57.9 54.6 81.8



#49
1,4-Dioxane
Concen: 0.777 ug/l
RT: 9.677 min Scan# 1316
Delta R.T. -0.018 min
Lab File: VN077450.D
Acq: 25 Apr 2023 06:05

Tgt Ion: 88 Resp: 112
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 9955.4 47.0 70.4#

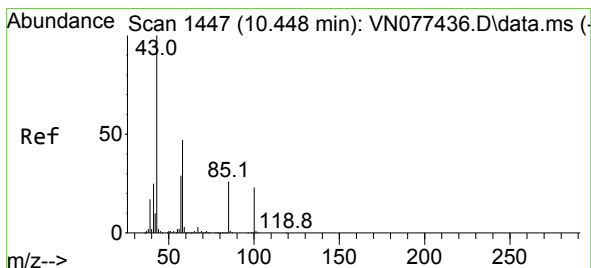
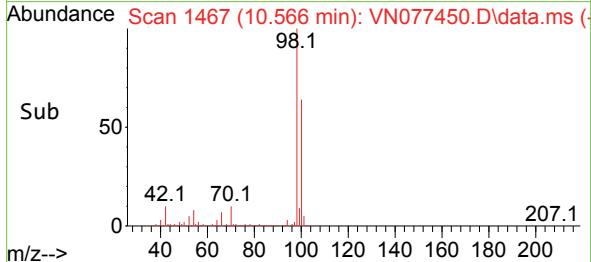
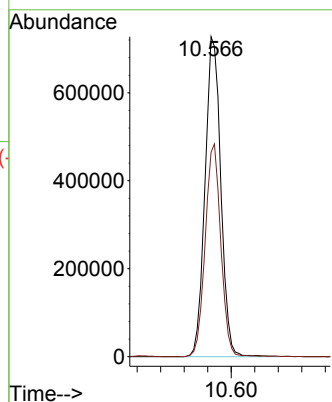
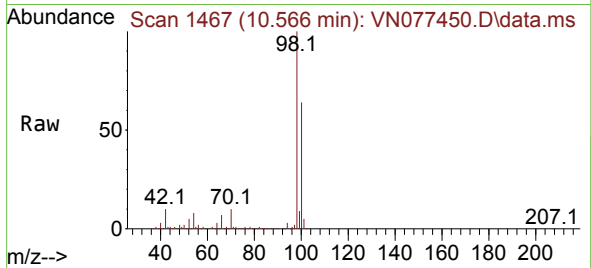




#50
Toluene-d8
Concen: 53.141 ug/l
RT: 10.566 min Scan# 1467
Delta R.T. -0.000 min
Lab File: VN077450.D
Acq: 25 Apr 2023 06:05

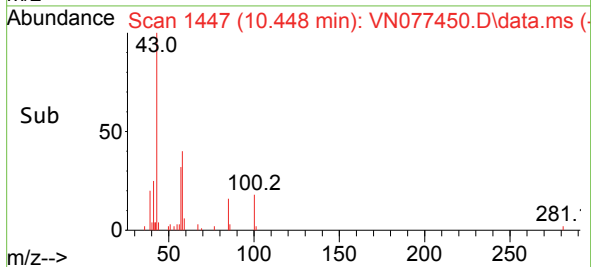
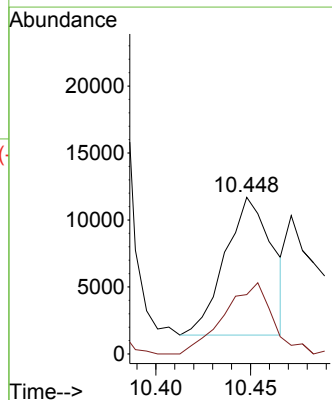
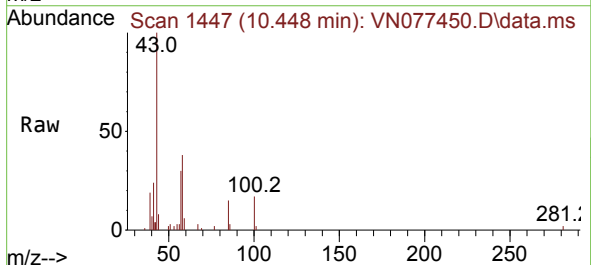
Instrument :
MSVOA_N
ClientSampleId :
PB152304ZHE#01

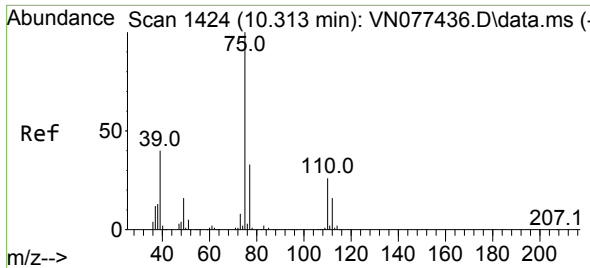
Tgt Ion: 98 Resp: 1354359
Ion Ratio Lower Upper
98 100
100 66.0 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 2.411 ug/l
RT: 10.448 min Scan# 1447
Delta R.T. -0.000 min
Lab File: VN077450.D
Acq: 25 Apr 2023 06:05

Tgt Ion: 43 Resp: 17861
Ion Ratio Lower Upper
43 100
58 53.5 36.6 54.8

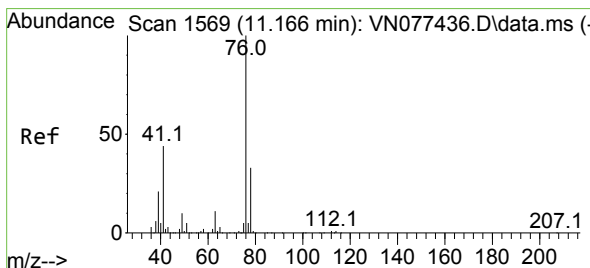
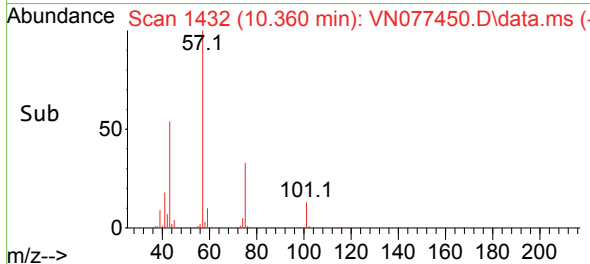
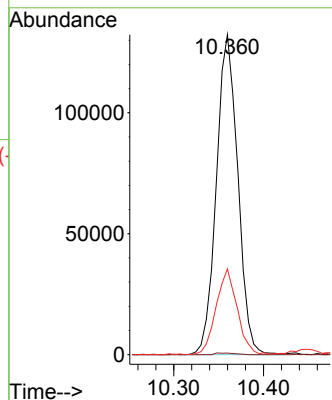
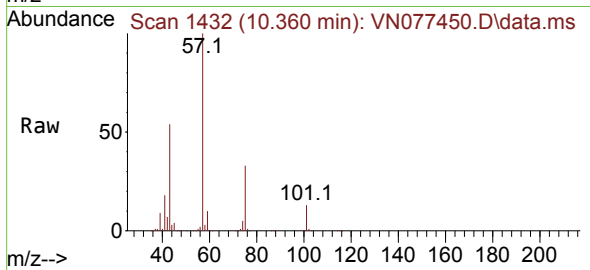




#54
 cis-1,3-Dichloropropene
 Concen: 18.484 ug/l
 RT: 10.360 min Scan# 1424
 Delta R.T. 0.047 min
 Lab File: VN077450.D
 Acq: 25 Apr 2023 06:05

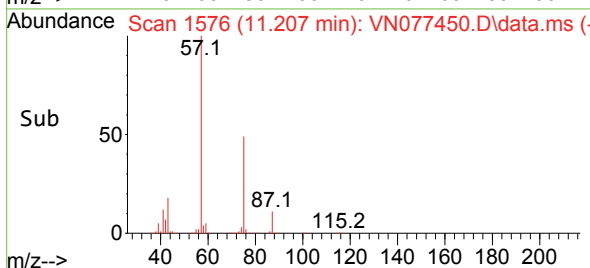
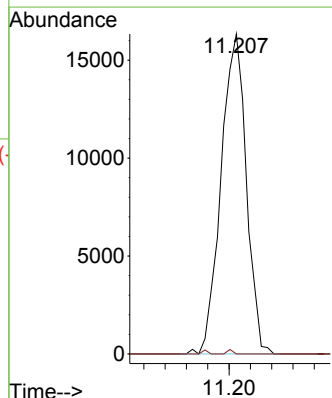
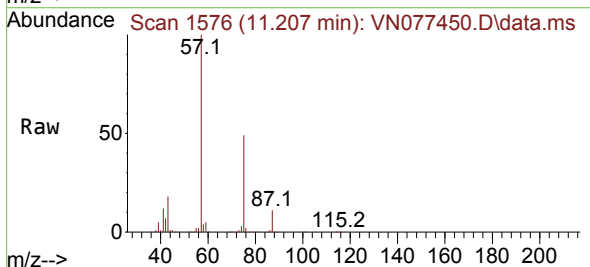
Instrument :
 MSVOA_N
 ClientSampleId :
 PB152304ZHE#01

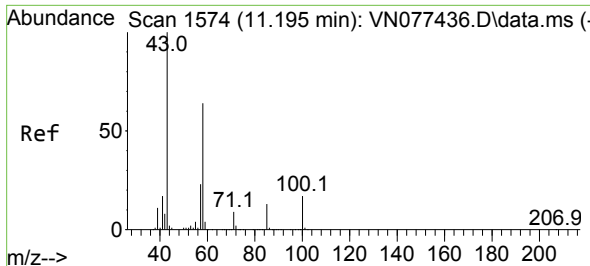
Tgt Ion: 75 Resp: 219209
 Ion Ratio Lower Upper
 75 100
 77 0.5 26.1 39.1#
 39 26.6 31.6 47.4#



#57
 1,3-Dichloropropane
 Concen: 2.184 ug/l
 RT: 11.207 min Scan# 1576
 Delta R.T. 0.041 min
 Lab File: VN077450.D
 Acq: 25 Apr 2023 06:05

Tgt Ion: 76 Resp: 26823
 Ion Ratio Lower Upper
 76 100
 78 0.3 26.1 39.1#

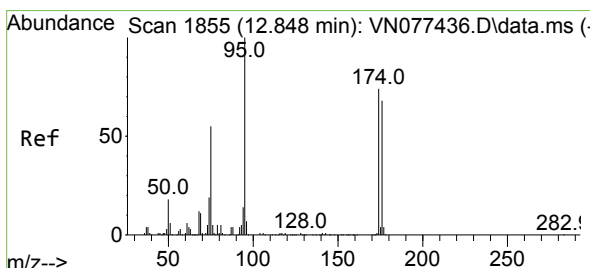
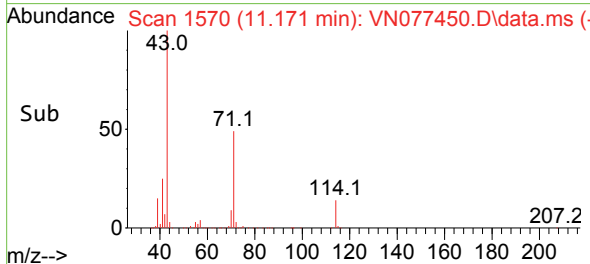
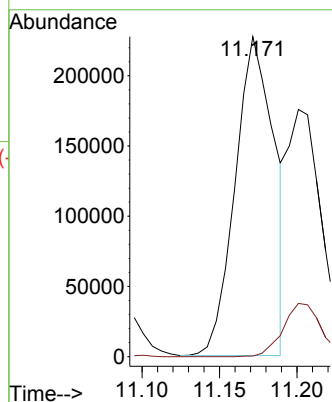
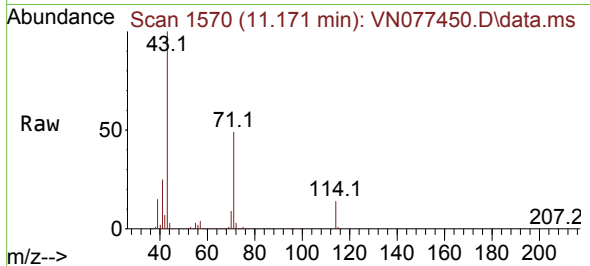




#59
2-Hexanone
Concen: 73.754 ug/l
RT: 11.171 min Scan# 11170
Delta R.T. -0.024 min
Lab File: VN077450.D
Acq: 25 Apr 2023 06:05

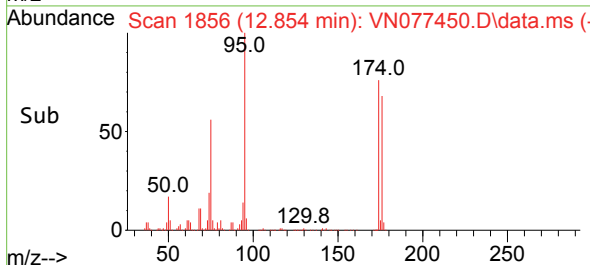
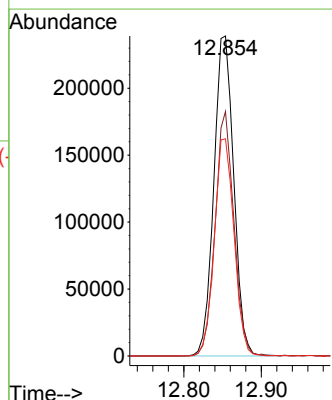
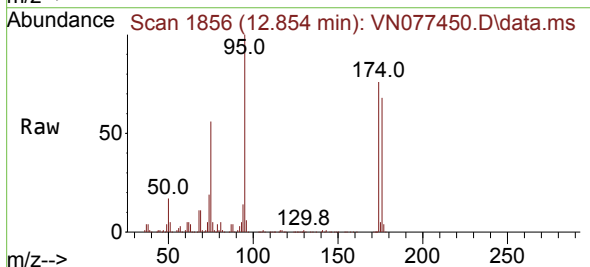
Instrument :
MSVOA_N
ClientSampleId :
PB152304ZHE#01

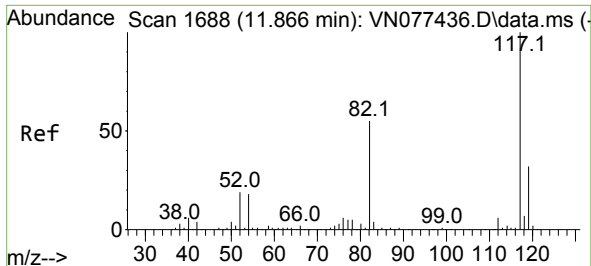
Tgt Ion: 43 Resp: 397135
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 51.089 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077450.D
Acq: 25 Apr 2023 06:05

Tgt Ion: 95 Resp: 426001
Ion Ratio Lower Upper
95 100
174 72.3 0.0 143.8
176 67.2 0.0 135.8

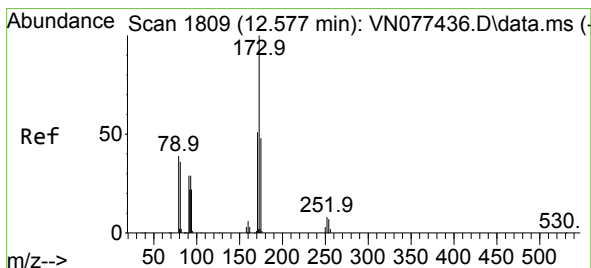
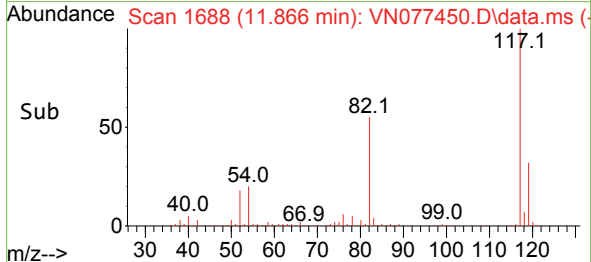
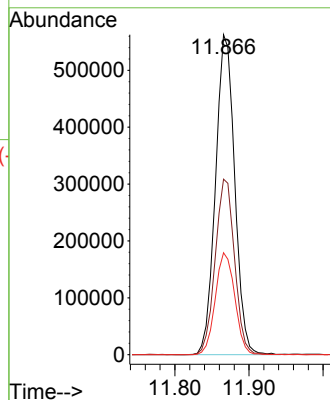
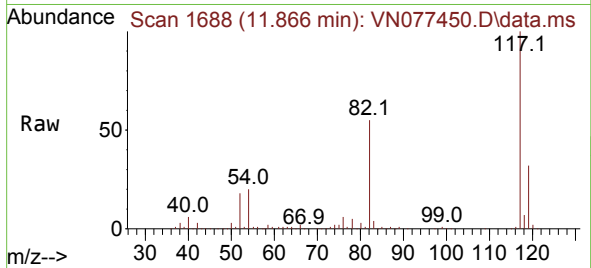




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.866 min Scan# 11894
Delta R.T. -0.000 min
Lab File: VN077450.D
Acq: 25 Apr 2023 06:05

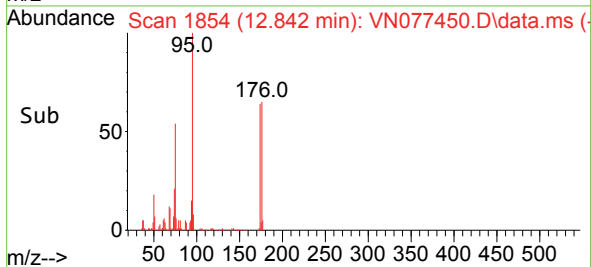
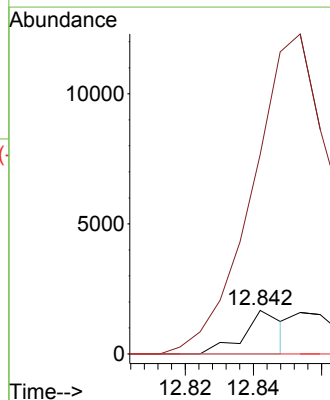
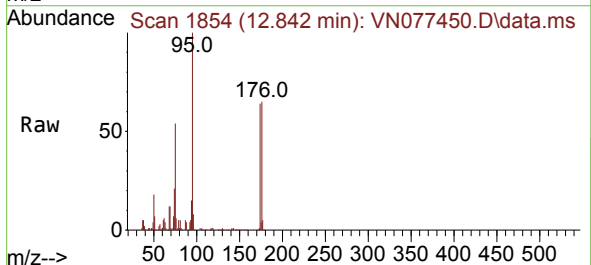
Instrument :
MSVOA_N
ClientSampleId :
PB152304ZHE#01

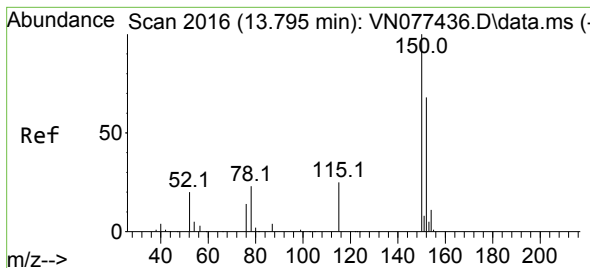
Tgt Ion:117 Resp: 1011894
Ion Ratio Lower Upper
117 100
82 54.9 44.0 66.0
119 31.9 25.6 38.4



#71
Bromoform
Concen: 0.261 ug/l
RT: 12.842 min Scan# 1854
Delta R.T. 0.265 min
Lab File: VN077450.D
Acq: 25 Apr 2023 06:05

Tgt Ion:173 Resp: 1329
Ion Ratio Lower Upper
173 100
175 0.0 24.3 73.0#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.795 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN077450.D

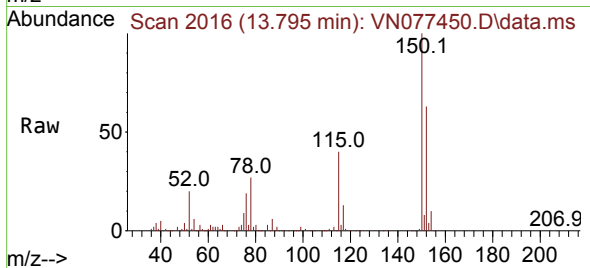
Acq: 25 Apr 2023 06:05

Instrument :

MSVOA_N

ClientSampleId :

PB152304ZHE#01



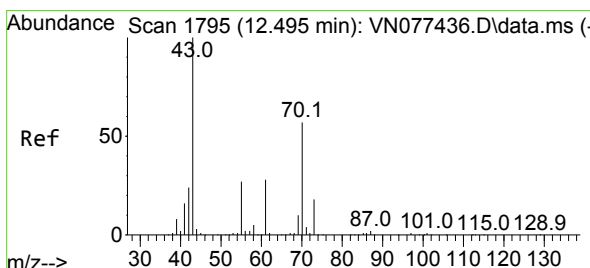
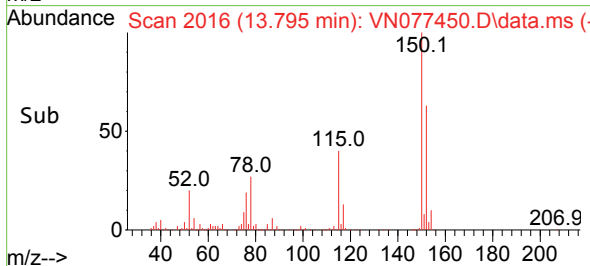
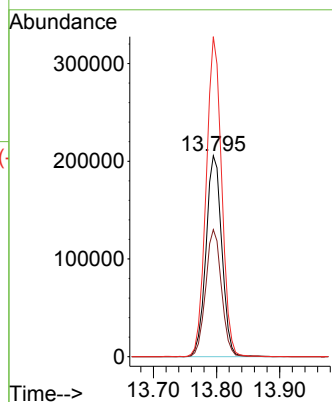
Tgt Ion:152 Resp: 358006

Ion Ratio Lower Upper

152 100

115 63.1 32.3 96.8

150 156.0 0.0 355.8



#74

N-ethyl acetate

Concen: 0.466 ug/l

RT: 12.483 min Scan# 1793

Delta R.T. -0.012 min

Lab File: VN077450.D

Acq: 25 Apr 2023 06:05

Tgt Ion: 43 Resp: 4582

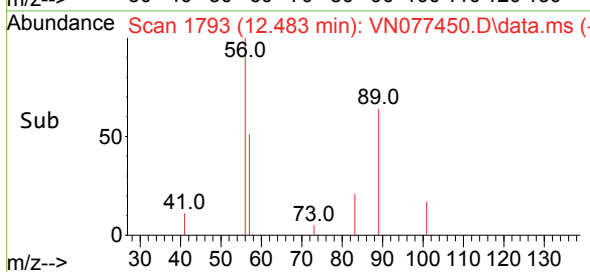
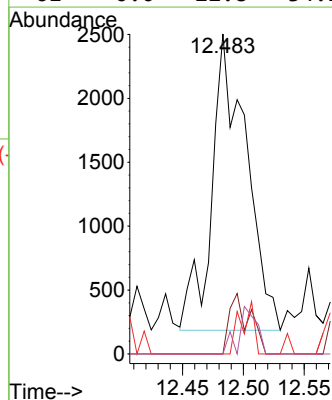
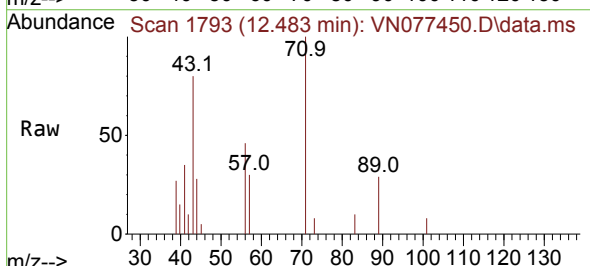
Ion Ratio Lower Upper

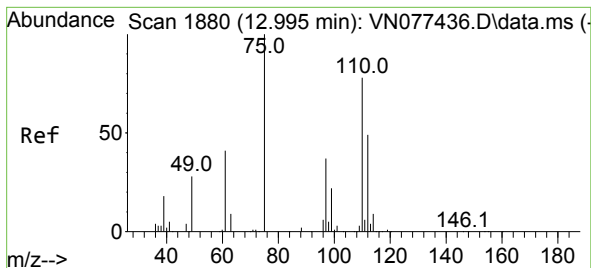
43 100

70 11.9 43.4 65.2#

55 0.0 21.4 32.0#

61 0.0 22.8 34.2#





#76

1,2,3-Trichloropropane

Concen: 27.767 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. -0.141 min

Lab File: VN077450.D

Acq: 25 Apr 2023 06:05

Instrument :

MSVOA_N

ClientSampleId :

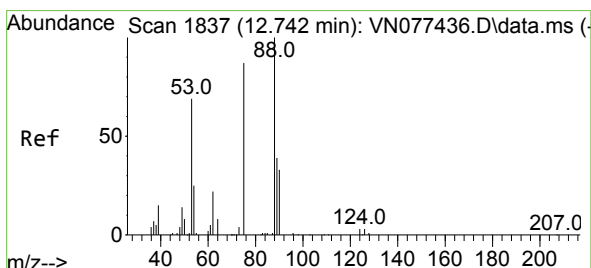
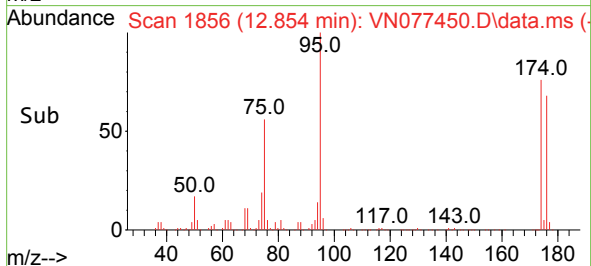
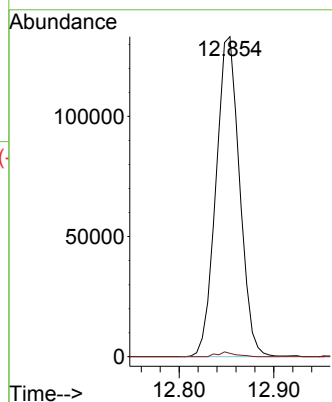
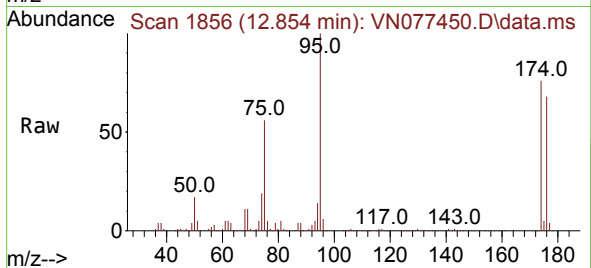
PB152304ZHE#01

Tgt Ion: 75 Resp: 231158

Ion Ratio Lower Upper

75 100

77 1.1 84.5 253.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 78.445 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. 0.112 min

Lab File: VN077450.D

Acq: 25 Apr 2023 06:05

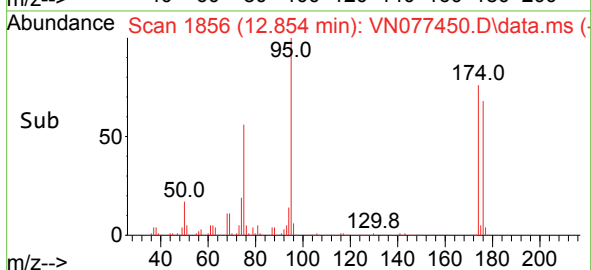
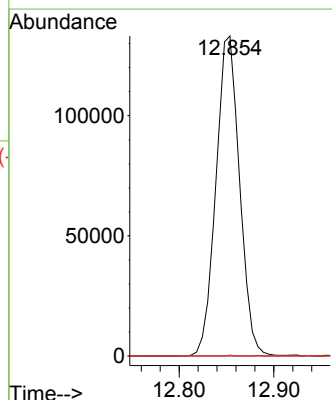
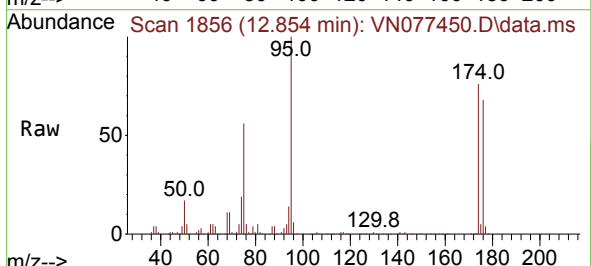
Tgt Ion: 75 Resp: 231158

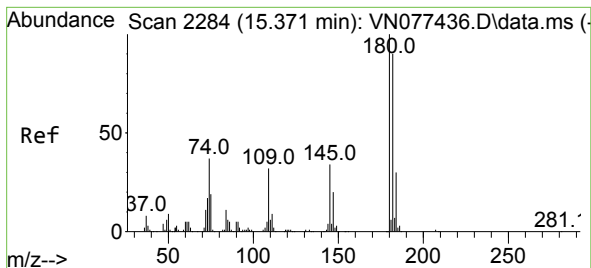
Ion Ratio Lower Upper

75 100

53 0.0 67.4 101.2#

89 0.1 38.8 58.2#





#93

1,2,4-Trichlorobenzene

Concen: 1.155 ug/l

RT: 15.371 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN077450.D

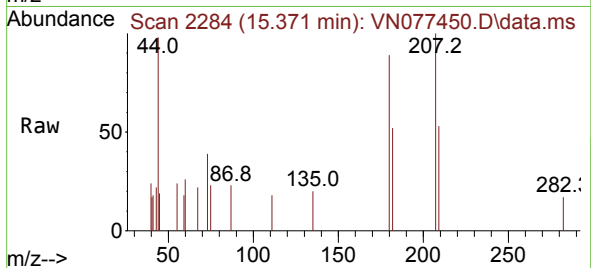
Acq: 25 Apr 2023 06:05

Instrument :

MSVOA_N

ClientSampleId :

PB152304ZHE#01



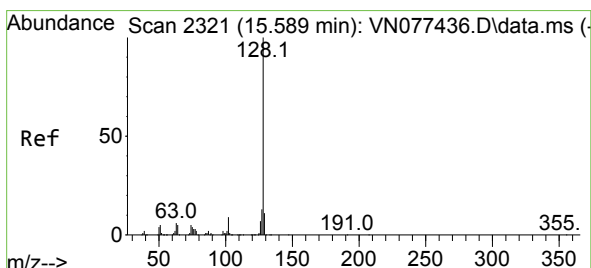
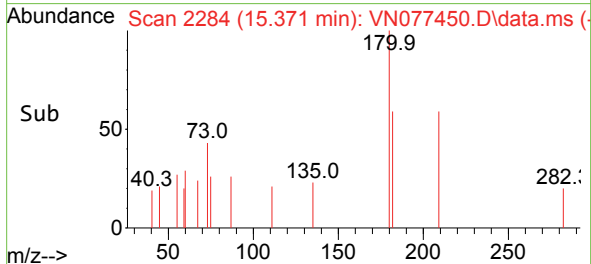
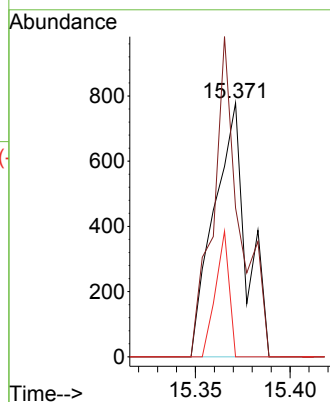
Tgt Ion:180 Resp: 930

Ion Ratio Lower Upper

180 100

182 103.3 46.1 138.2

145 20.8 16.6 49.8



#95

Naphthalene

Concen: 1.667 ug/l

RT: 15.589 min Scan# 2321

Delta R.T. -0.000 min

Lab File: VN077450.D

Acq: 25 Apr 2023 06:05

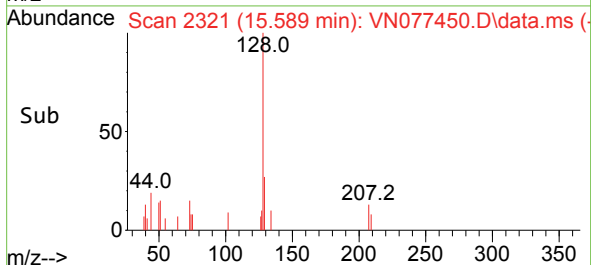
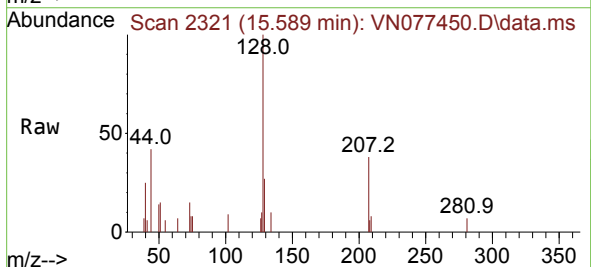
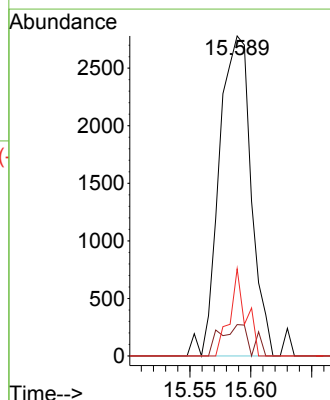
Tgt Ion:128 Resp: 5073

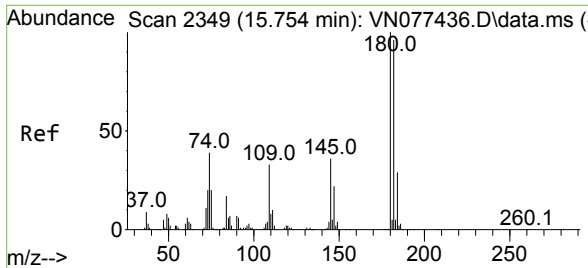
Ion Ratio Lower Upper

128 100

127 9.3 10.0 15.0#

129 13.8 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.958 ug/l
 RT: 15.759 min Scan# 21
 Delta R.T. 0.005 min
 Lab File: VN077450.D
 Acq: 25 Apr 2023 06:05

Instrument :
 MSVOA_N
 ClientSampleId :
 PB152304ZHE#01

Tgt Ion:	180	Resp:	1153
Ion	Ratio	Lower	Upper
180	100		
182	88.4	46.2	138.6
145	24.4	17.5	52.6

