

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061223\
 Data File : VN078162.D
 Acq On : 12 Jun 2023 13:29
 Operator : JC\MD
 Sample : 03137-01 200X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ACEDEMY-STREET-DRUM

Quant Time: Jun 13 01:31:29 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060623W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 07 05:05:00 2023
 Response via : Initial Calibration

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

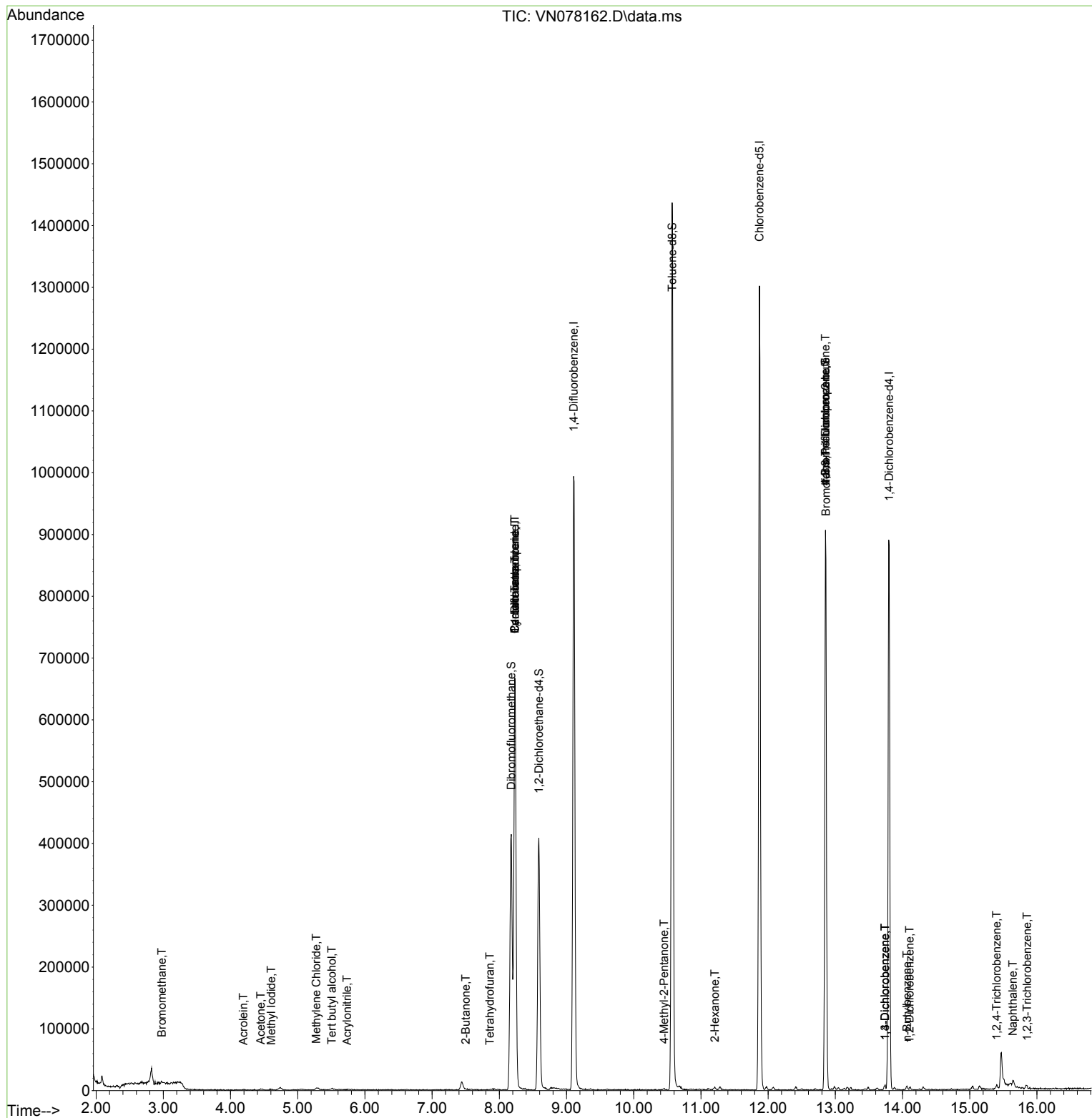
Internal Standards						
1) Pentafluorobenzene	8.230	168	488819	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	892600	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	767606	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	245087	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	336724	51.665	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.320%			
35) Dibromofluoromethane	8.177	113	302722	53.638	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 107.280%			
50) Toluene-d8	10.571	98	1037439	47.682	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 95.360%			
62) 4-Bromofluorobenzene	12.853	95	320326	47.359	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 94.720%			
Target Compounds						Qvalue
3) Chloromethane	2.377	50	1009	Below Cal	#	78
5) Bromomethane	2.977	94	2753	0.503	ug/l	84
10) Methyl Iodide	4.606	142	2365	0.323	ug/l #	69
11) Tert butyl alcohol	5.506	59	1464	1.627	ug/l #	72
13) Acrolein	4.189	56	281	0.283	ug/l #	65
15) Acrylonitrile	5.736	53	649	0.280	ug/l #	52
16) Acetone	4.448	43	1288	0.687	ug/l	93
20) Methylene Chloride	5.277	84	1618	0.261	ug/l #	64
25) 2-Butanone	7.500	43	705	0.244	ug/l #	37
29) Tetrahydrofuran	7.859	42	443	0.230	ug/l #	38
31) Cyclohexane	8.230	56	10501	1.256	ug/l #	19
36) 1,1-Dichloropropene	8.230	75	40462	4.998	ug/l #	48
38) Carbon Tetrachloride	8.230	117	51924	6.074	ug/l #	17
51) 4-Methyl-2-Pentanone	10.453	43	1928	0.303	ug/l #	31
59) 2-Hexanone	11.206	43	2484	0.560	ug/l	94
71) Bromoform	12.859	173	2621	0.672	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.941	83	609	Below Cal	#	85
76) 1,2,3-Trichloropropane	12.853	75	170730	29.467	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	170730	90.532	ug/l #	15
87) 1,3-Dichlorobenzene	13.741	146	2139	0.235	ug/l	93
88) 1,4-Dichlorobenzene	13.741	146	2139	0.244	ug/l	92
89) n-Butylbenzene	14.065	91	3415	0.250	ug/l	89
91) 1,2-Dichlorobenzene	14.106	146	1931	0.217	ug/l	86
93) 1,2,4-Trichlorobenzene	15.400	180	2019	0.637	ug/l	79
94) Hexachlorobutadiene	15.506	225	1669	Below Cal		90
95) Naphthalene	15.641	128	7710	0.723	ug/l #	93
96) 1,2,3-Trichlorobenzene	15.853	180	2398	0.677	ug/l	83

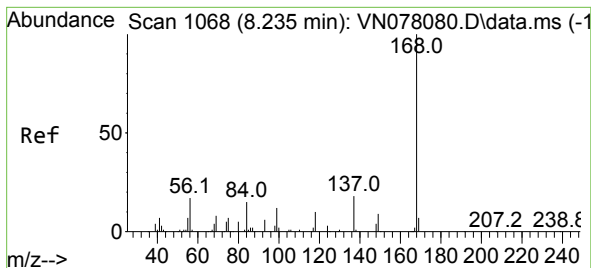
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jun 07 05:05:00 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 11

Delta R.T. -0.005 min

Lab File: VN078162.D

Acq: 12 Jun 2023 13:29

Instrument :

MSVOA_N

ClientSampleId :

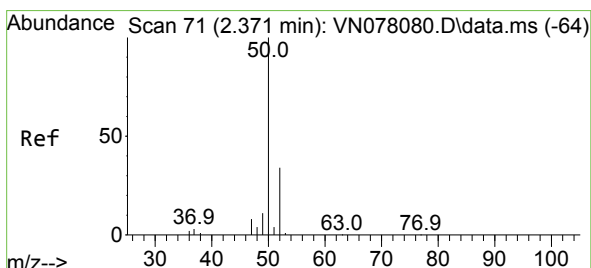
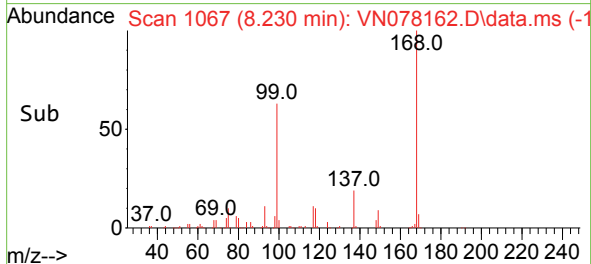
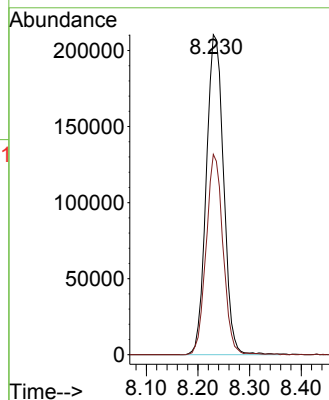
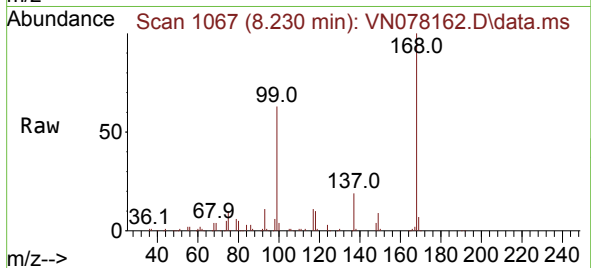
ACEDEMY-STREET-DRUM

Tgt Ion:168 Resp: 488819

Ion Ratio Lower Upper

168 100

99 62.6 53.0 79.6



#3

Chloromethane

Concen: Below Cal

RT: 2.377 min Scan# 72

Delta R.T. 0.006 min

Lab File: VN078162.D

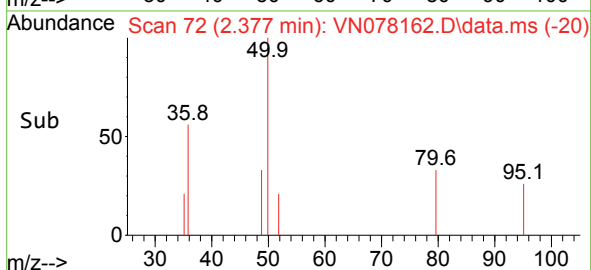
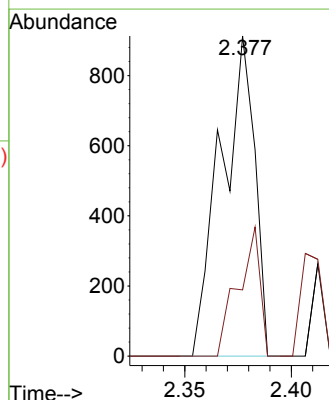
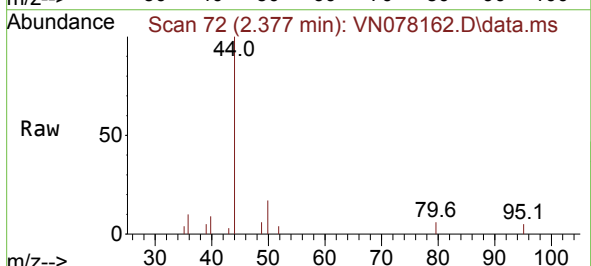
Acq: 12 Jun 2023 13:29

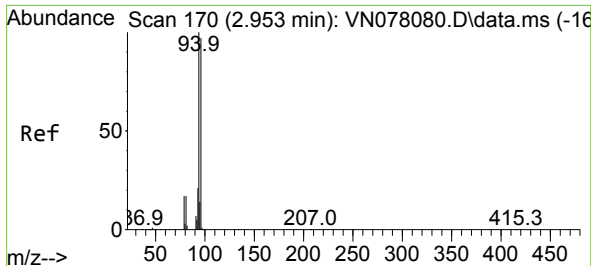
Tgt Ion: 50 Resp: 1009

Ion Ratio Lower Upper

50 100

52 20.7 26.5 39.7#

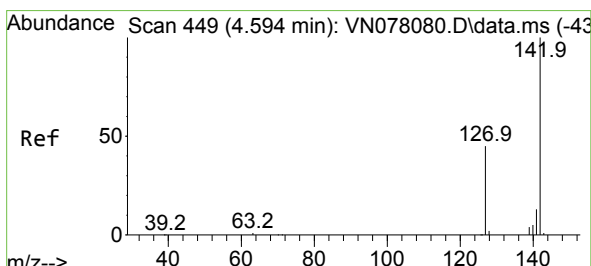
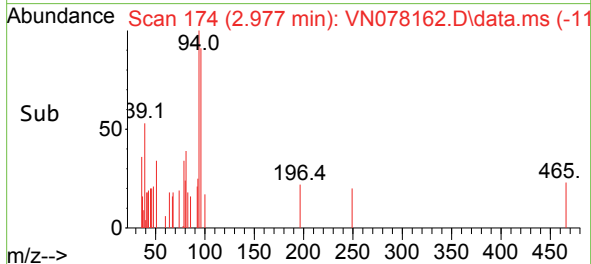
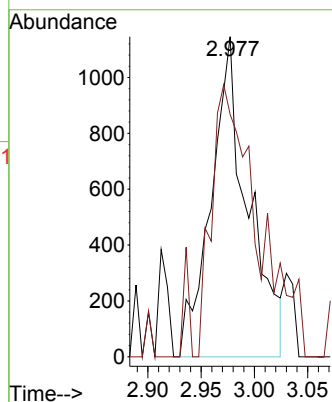
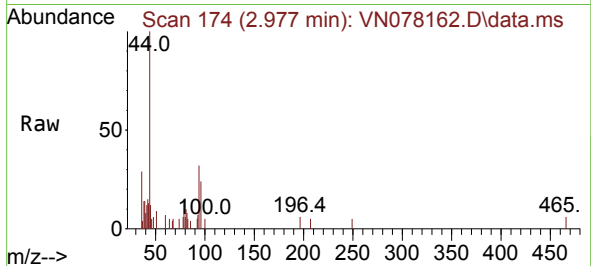




#5
Bromomethane
Concen: 0.503 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.024 min
Lab File: VN078162.D
Acq: 12 Jun 2023 13:29

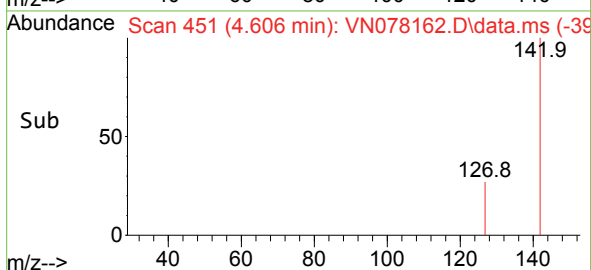
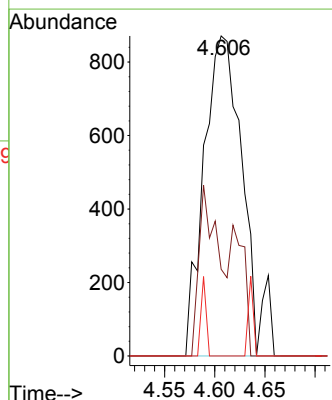
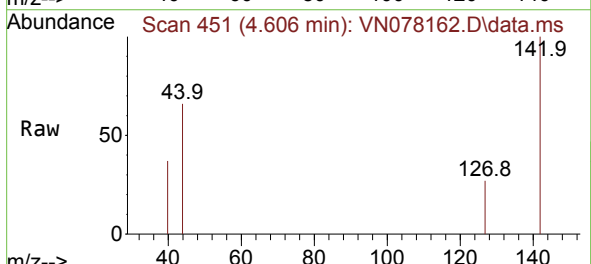
Instrument :
MSVOA_N
ClientSampleId :
ACEDEMY-STREET-DRUM

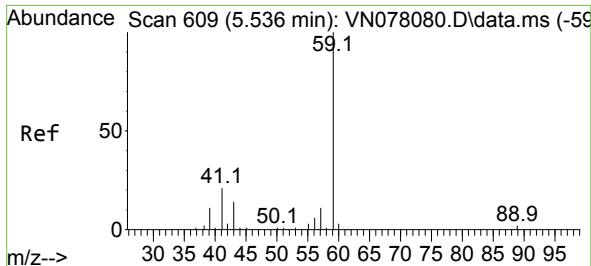
Tgt Ion: 94 Resp: 2753
Ion Ratio Lower Upper
94 100
96 75.7 73.1 109.7



#10
Methyl Iodide
Concen: 0.323 ug/l
RT: 4.606 min Scan# 451
Delta R.T. 0.012 min
Lab File: VN078162.D
Acq: 12 Jun 2023 13:29

Tgt Ion: 142 Resp: 2365
Ion Ratio Lower Upper
142 100
127 27.1 37.6 56.4#
141 0.0 11.4 17.0#

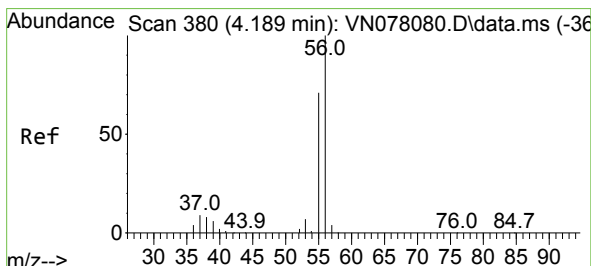
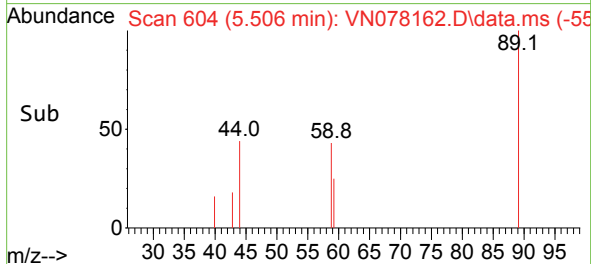
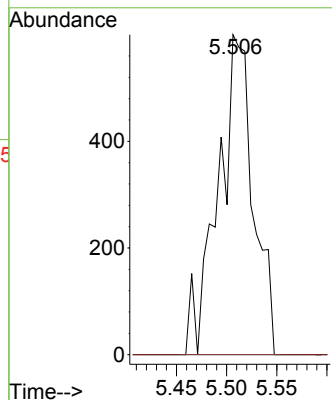
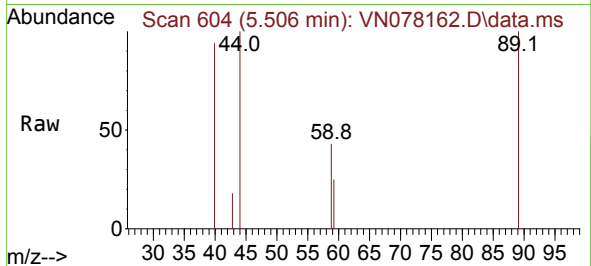




#11
Tert butyl alcohol
Concen: 1.627 ug/l
RT: 5.506 min Scan# 609
Delta R.T. -0.029 min
Lab File: VN078162.D
Acq: 12 Jun 2023 13:29

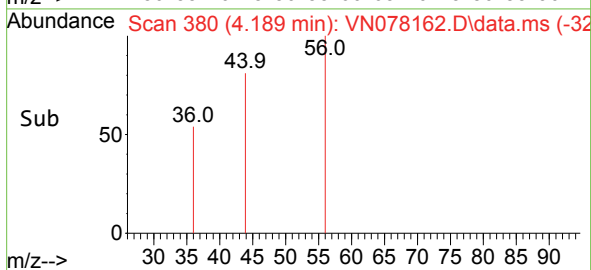
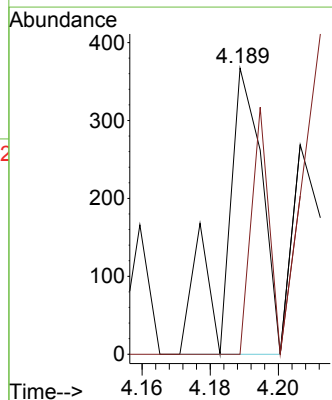
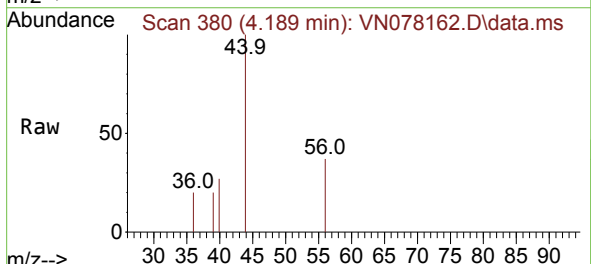
Instrument :
MSVOA_N
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ACEDEMY-STREET-DRUM

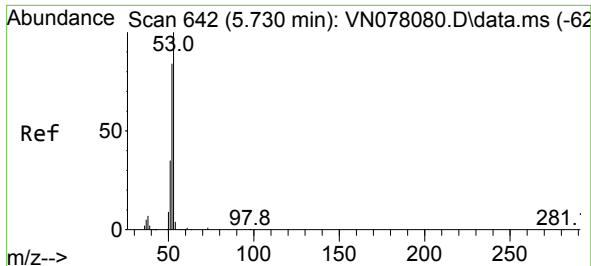
Tgt Ion: 59 Resp: 1464
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: 0.283 ug/l
RT: 4.189 min Scan# 380
Delta R.T. 0.000 min
Lab File: VN078162.D
Acq: 12 Jun 2023 13:29

Tgt Ion: 56 Resp: 281
Ion Ratio Lower Upper
56 100
55 39.9 54.5 81.7#

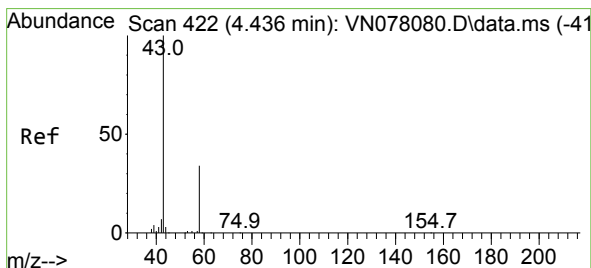
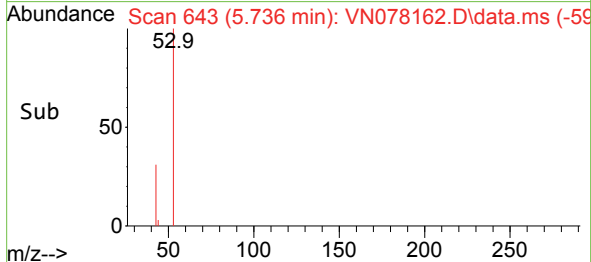
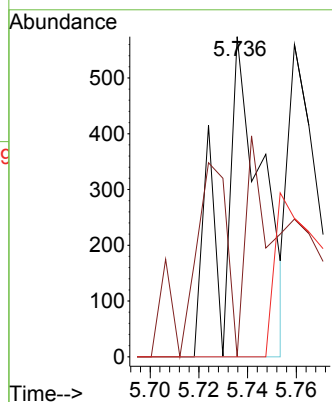
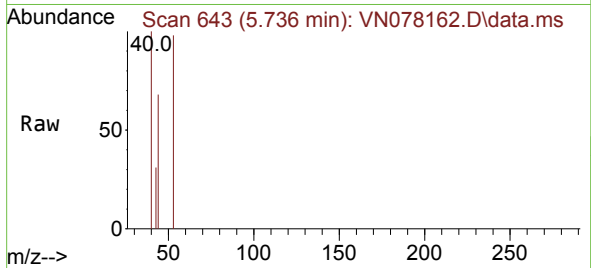




#15
Acrylonitrile
Concen: 0.280 ug/l
RT: 5.736 min Scan# 642
Delta R.T. 0.006 min
Lab File: VN078162.D
Acq: 12 Jun 2023 13:29

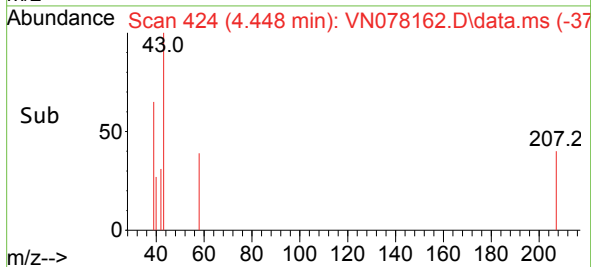
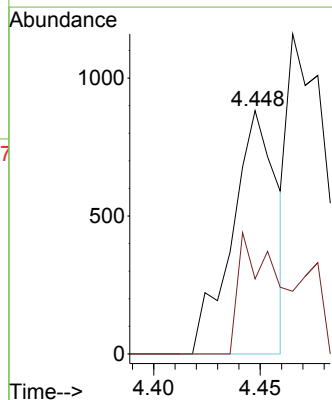
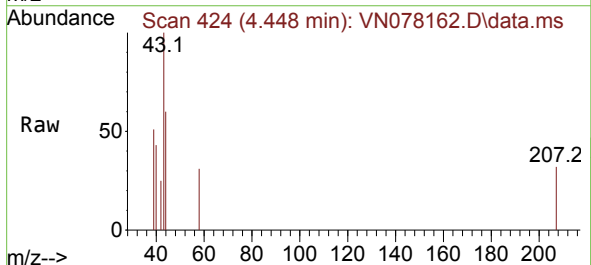
Instrument :
MSVOA_N
ClientSampleId :
ACEDEMY-STREET-DRUM

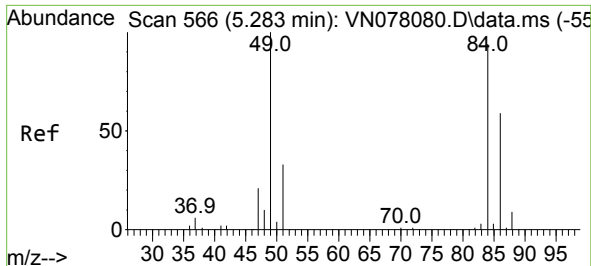
Tgt Ion: 53 Resp: 649
Ion Ratio Lower Upper
53 100
52 44.1 65.3 97.9#
51 0.0 28.9 43.3#



#16
Acetone
Concen: 0.687 ug/l
RT: 4.448 min Scan# 424
Delta R.T. 0.012 min
Lab File: VN078162.D
Acq: 12 Jun 2023 13:29

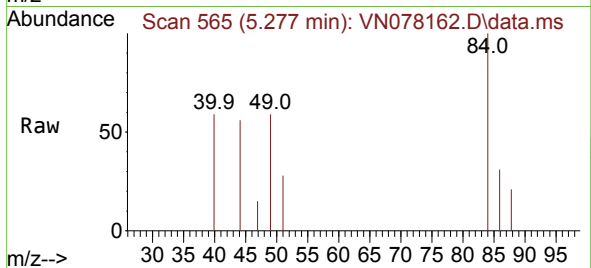
Tgt Ion: 43 Resp: 1288
Ion Ratio Lower Upper
43 100
58 30.8 28.0 42.0





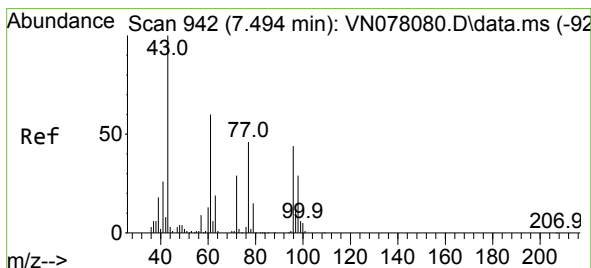
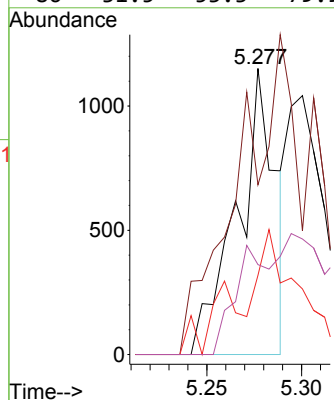
#20
Methylene Chloride
Concen: 0.261 ug/l
RT: 5.277 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN078162.D
Acq: 12 Jun 2023 13:29

Instrument :
MSVOA_N
ClientSampleId :
ACEDEMY-STREET-DRUM



Tgt Ion: 84 Resp: 1618

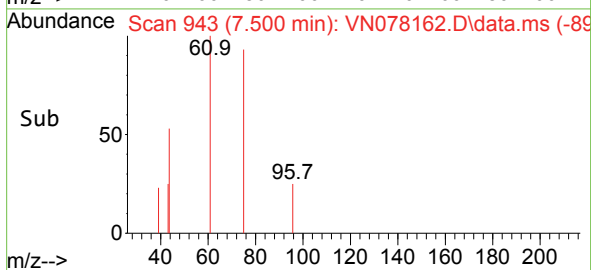
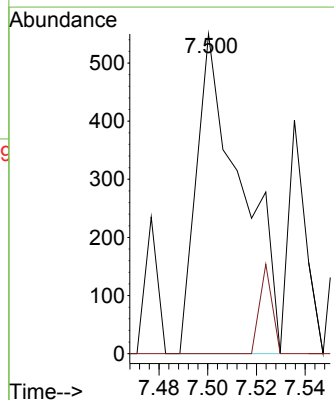
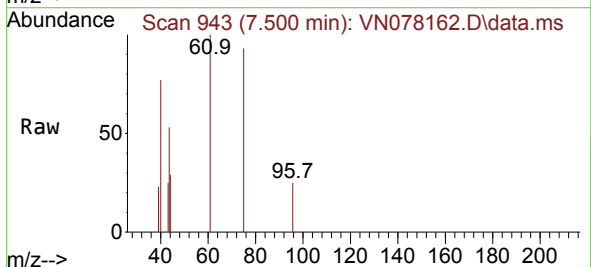
Ion	Ratio	Lower	Upper
84	100		
49	59.3	79.7	119.5#
51	27.7	25.2	37.8
86	31.5	53.3	79.9#

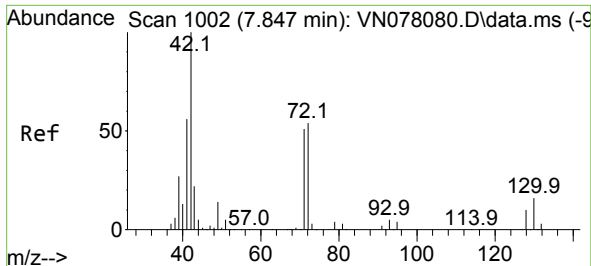


#25
2-Butanone
Concen: 0.244 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.006 min
Lab File: VN078162.D
Acq: 12 Jun 2023 13:29

Tgt Ion: 43 Resp: 705

Ion	Ratio	Lower	Upper
43	100		
72	0.0	30.2	45.2#

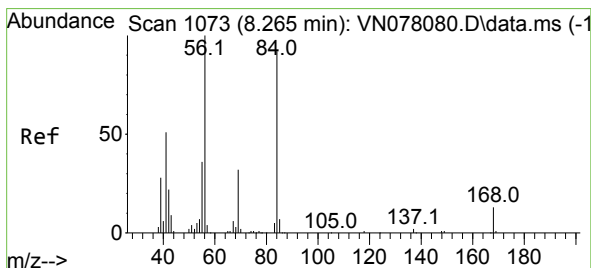
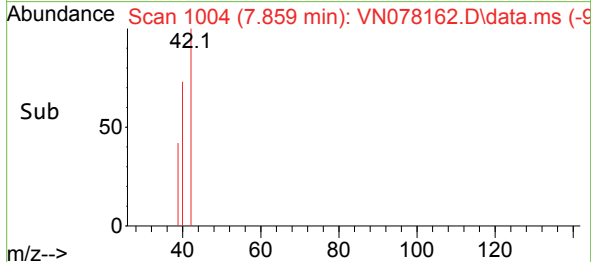
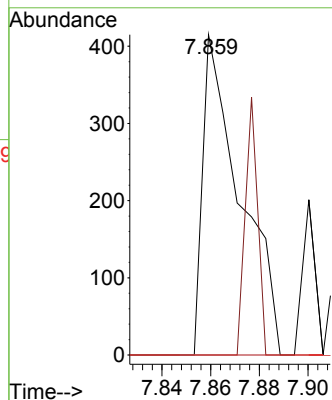
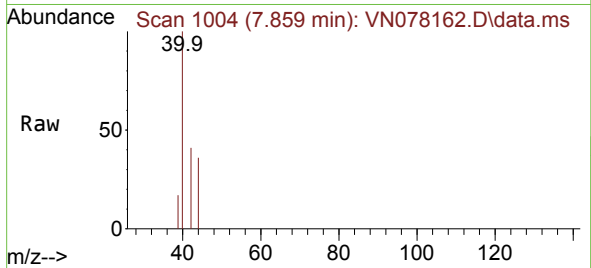




#29
Tetrahydrofuran
Concen: 0.230 ug/l
RT: 7.859 min Scan# 1004
Delta R.T. 0.012 min
Lab File: VN078162.D
Acq: 12 Jun 2023 13:29

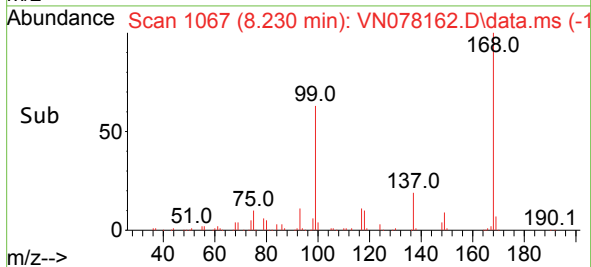
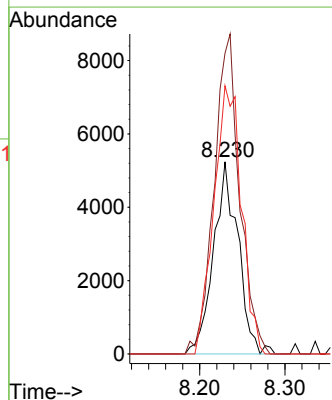
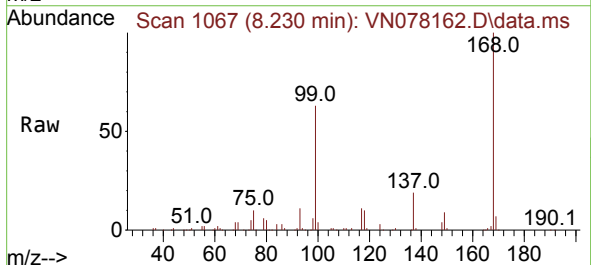
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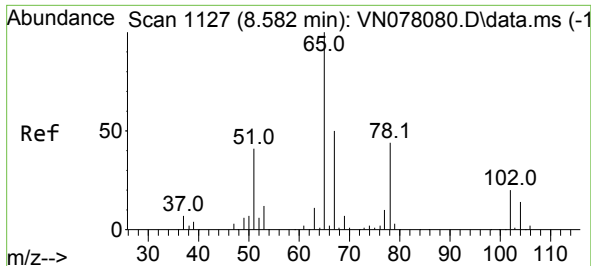
Tgt Ion: 42 Resp: 443
Ion Ratio Lower Upper
42 100
72 26.6 49.8 74.6#
71 0.0 47.4 71.2#



#31
Cyclohexane
Concen: 1.256 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN078162.D
Acq: 12 Jun 2023 13:29

Tgt Ion: 56 Resp: 10501
Ion Ratio Lower Upper
56 100
69 156.5 26.8 40.2#
84 139.6 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 51.665 ug/l

RT: 8.588 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN078162.D

Acq: 12 Jun 2023 13:29

Instrument :

MSVOA_N

ClientSampleId :

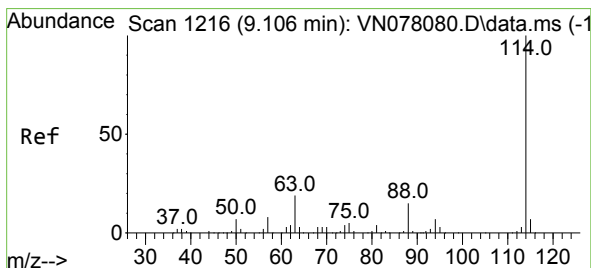
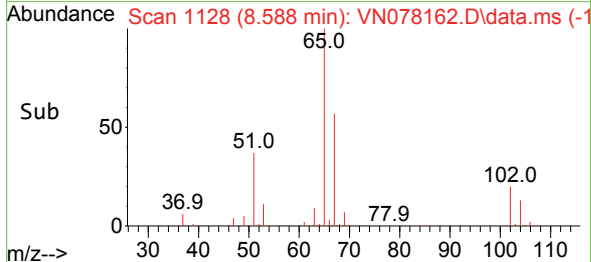
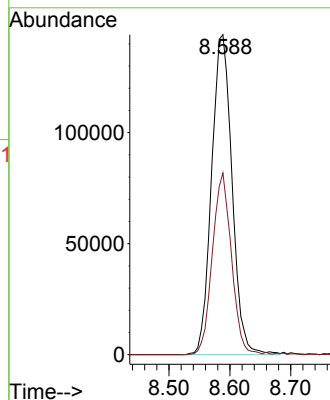
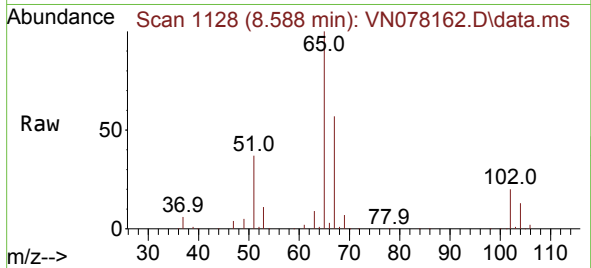
ACADEMY-STREET-DRUM

Tgt Ion: 65 Resp: 336724

Ion Ratio Lower Upper

65 100

67 52.8 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN078162.D

Acq: 12 Jun 2023 13:29

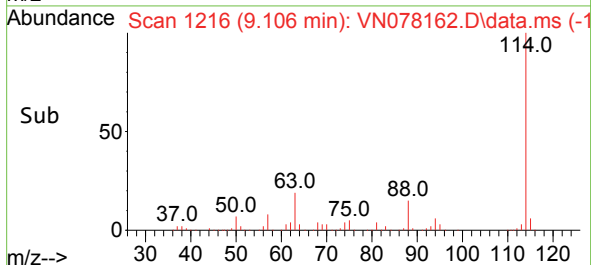
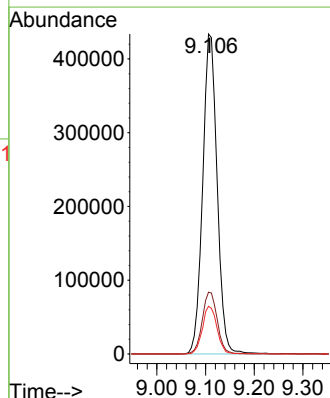
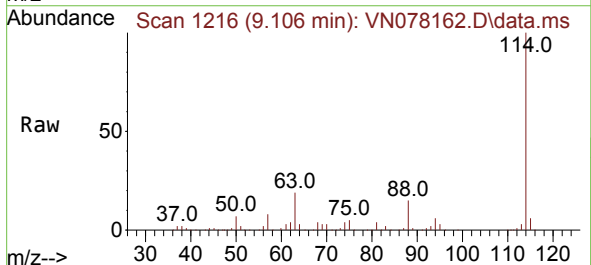
Tgt Ion: 114 Resp: 892600

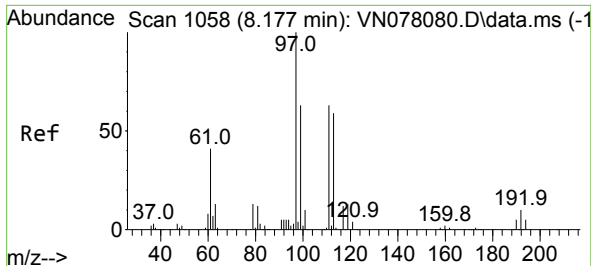
Ion Ratio Lower Upper

114 100

63 19.3 0.0 36.4

88 14.9 0.0 30.6

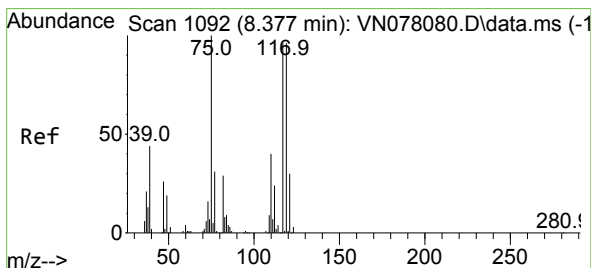
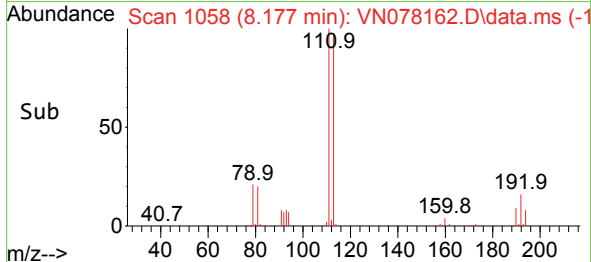
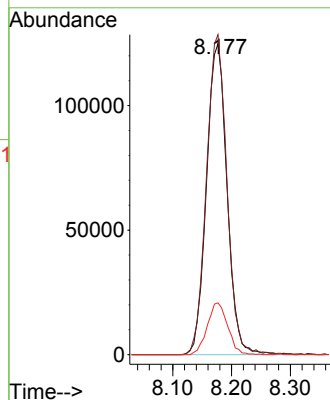
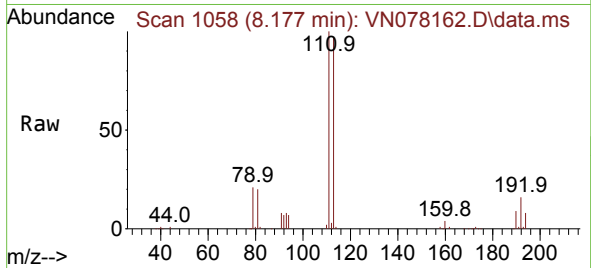




#35
 Dibromofluoromethane
 Concen: 53.638 ug/l
 RT: 8.177 min Scan# 1058
 Delta R.T. 0.000 min
 Lab File: VN078162.D
 Acq: 12 Jun 2023 13:29

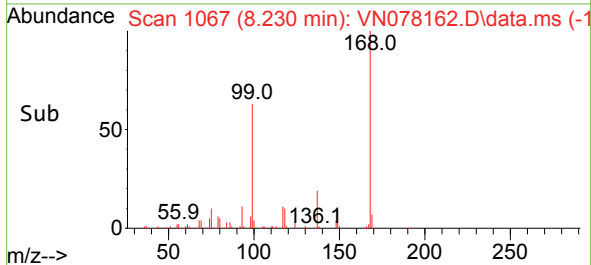
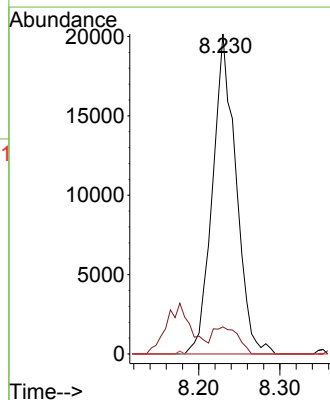
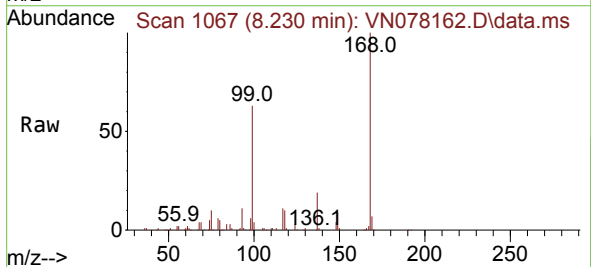
Instrument :
 MSVOA_N
 ClientSampleId :
 ACEDEMY-STREET-DRUM

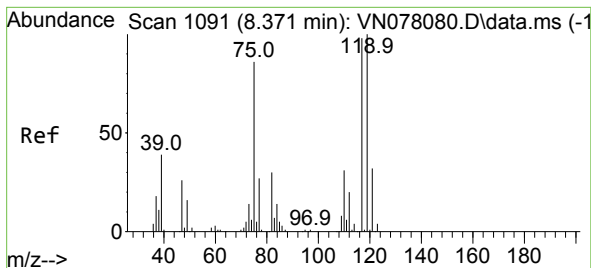
Tgt Ion:113 Resp: 302722
 Ion Ratio Lower Upper
 113 100
 111 102.7 82.6 123.8
 192 16.6 12.7 19.1



#36
 1,1-Dichloropropene
 Concen: 4.998 ug/l
 RT: 8.230 min Scan# 1067
 Delta R.T. -0.147 min
 Lab File: VN078162.D
 Acq: 12 Jun 2023 13:29

Tgt Ion: 75 Resp: 40462
 Ion Ratio Lower Upper
 75 100
 110 9.0 19.1 57.3#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.074 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.141 min

Lab File: VN078162.D

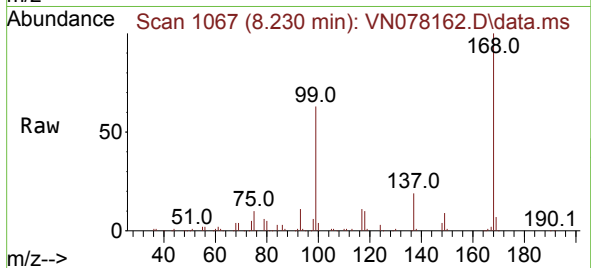
Acq: 12 Jun 2023 13:29

Instrument :

MSVOA_N

ClientSampleId :

ACEDEMY-STREET-DRUM



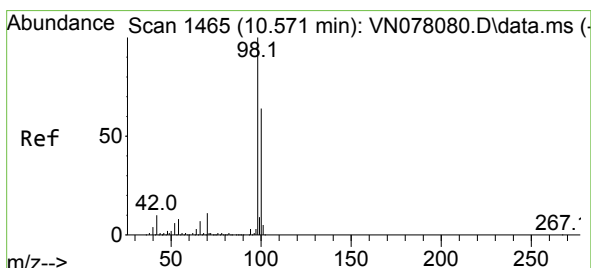
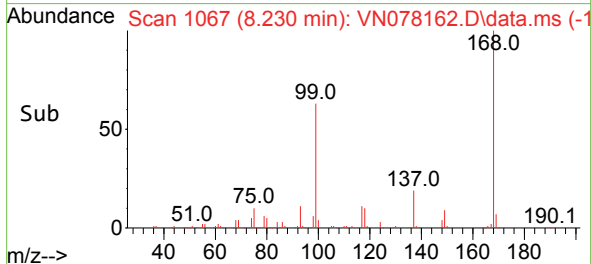
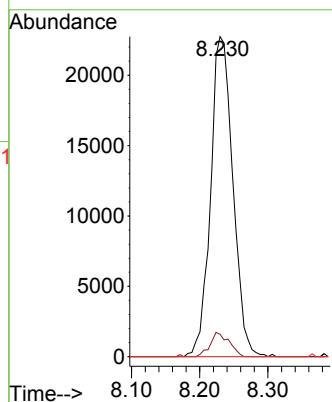
Tgt Ion:117 Resp: 51924

Ion Ratio Lower Upper

117 100

119 7.0 77.3 115.9#

121 0.0 23.3 34.9#



#50

Toluene-d8

Concen: 47.682 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN078162.D

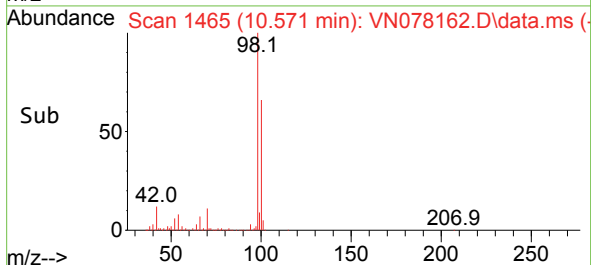
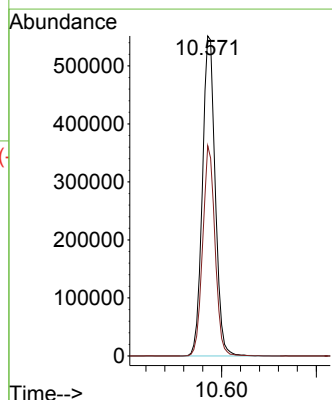
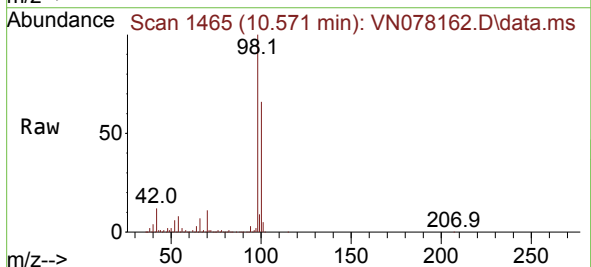
Acq: 12 Jun 2023 13:29

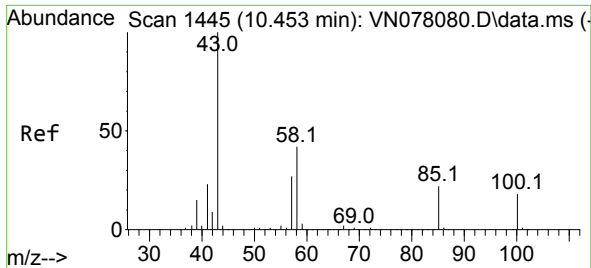
Tgt Ion: 98 Resp: 1037439

Ion Ratio Lower Upper

98 100

100 63.2 52.0 78.0

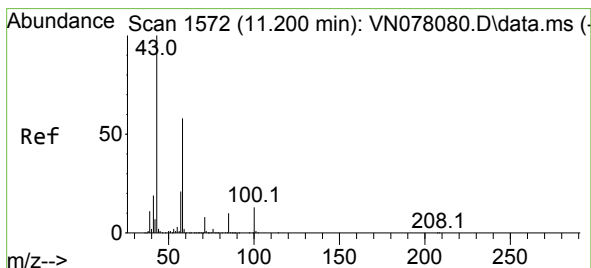
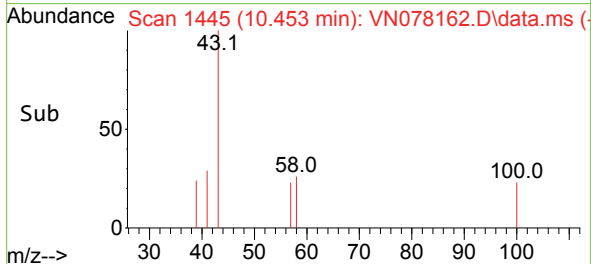
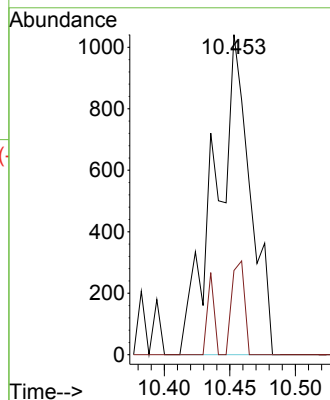
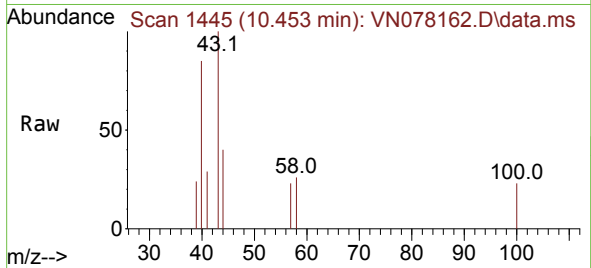




#51
4-Methyl-2-Pentanone
Concen: 0.303 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.000 min
Lab File: VN078162.D
Acq: 12 Jun 2023 13:29

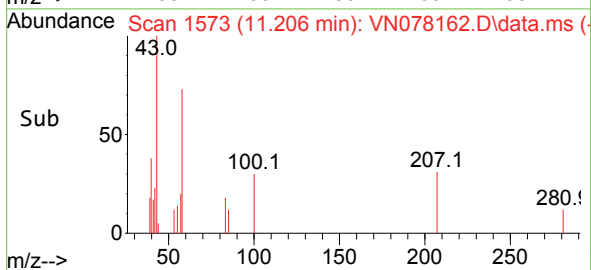
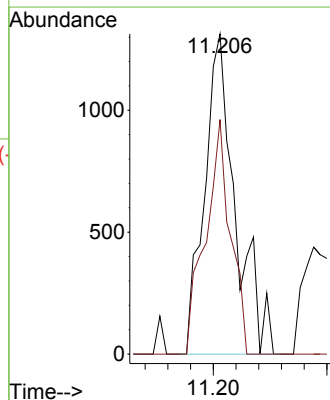
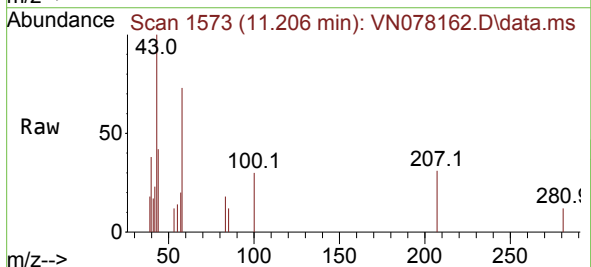
Instrument :
MSVOA_N
ClientSampleId :
ACADEMY-STREET-DRUM

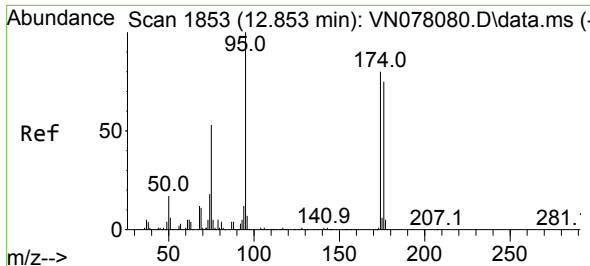
Tgt Ion: 43 Resp: 1928
Ion Ratio Lower Upper
43 100
58 0.0 36.6 54.8#



#59
2-Hexanone
Concen: 0.560 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.006 min
Lab File: VN078162.D
Acq: 12 Jun 2023 13:29

Tgt Ion: 43 Resp: 2484
Ion Ratio Lower Upper
43 100
58 59.1 31.7 95.1

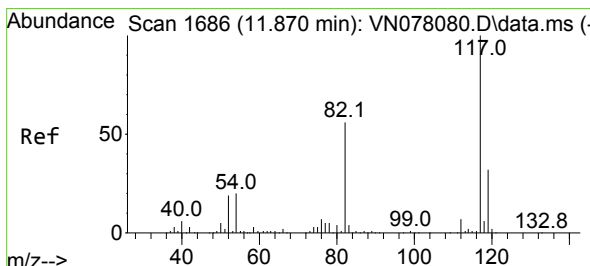
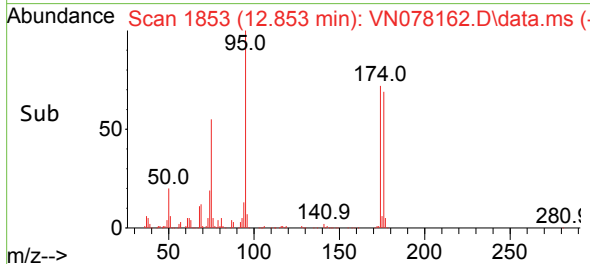
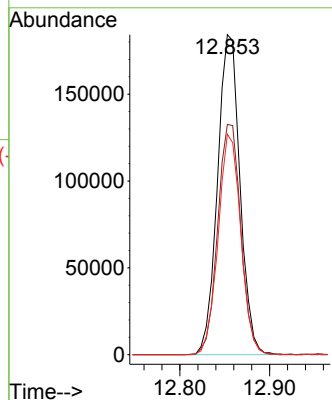
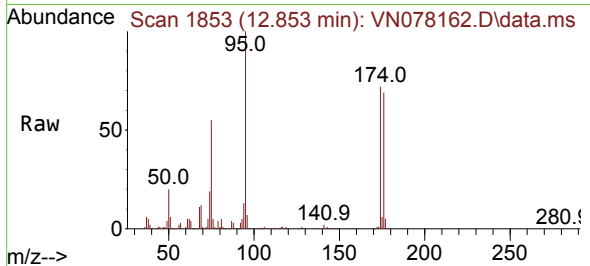




#62
4-Bromofluorobenzene
Concen: 47.359 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078162.D
Acq: 12 Jun 2023 13:29

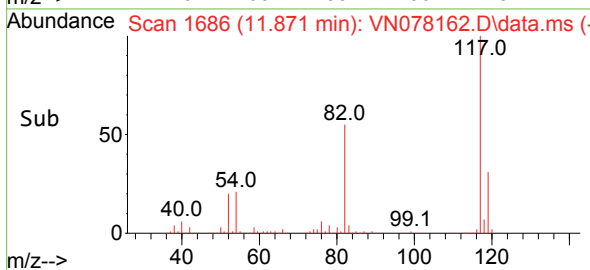
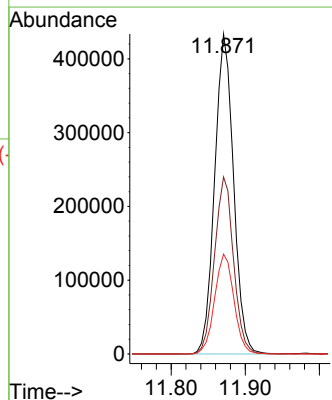
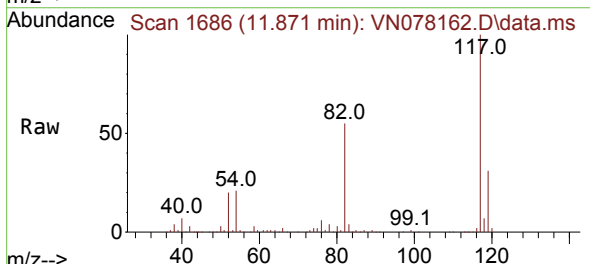
Instrument :
MSVOA_N
ClientSampleId :
ACEDEMY-STREET-DRUM

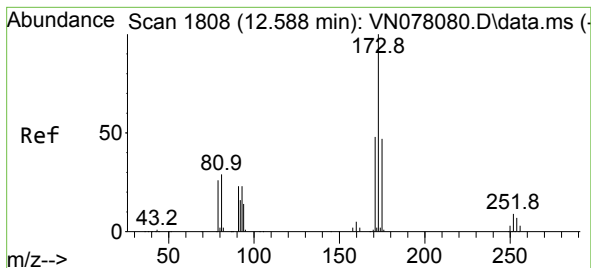
Tgt Ion: 95 Resp: 320326
Ion Ratio Lower Upper
95 100
174 74.1 0.0 143.8
176 69.3 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN078162.D
Acq: 12 Jun 2023 13:29

Tgt Ion: 117 Resp: 767606
Ion Ratio Lower Upper
117 100
82 55.3 44.0 66.0
119 31.2 25.6 38.4





#71

Bromoform

Concen: 0.672 ug/l

RT: 12.859 min Scan# 1854

Delta R.T. 0.271 min

Lab File: VN078162.D

Acq: 12 Jun 2023 13:29

Instrument :

MSVOA_N

ClientSampleId :

ACADEMY-STREET-DRUM

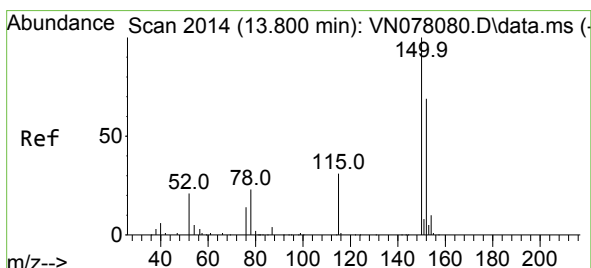
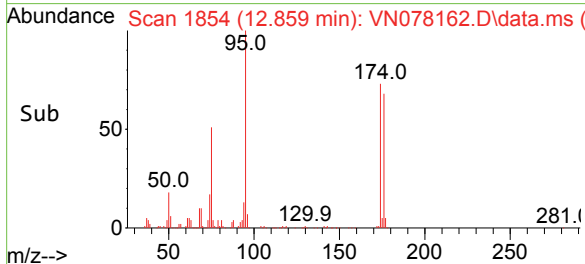
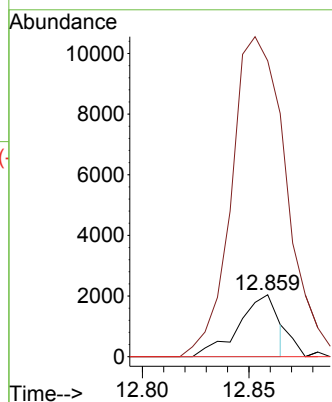
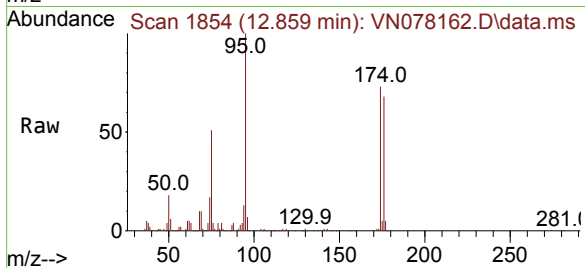
Tgt Ion:173 Resp: 2621

Ion Ratio Lower Upper

173 100

175 622.1 24.3 73.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 2014

Delta R.T. 0.000 min

Lab File: VN078162.D

Acq: 12 Jun 2023 13:29

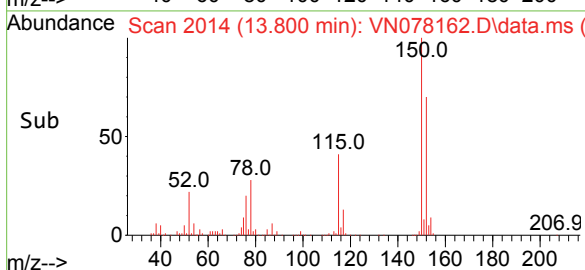
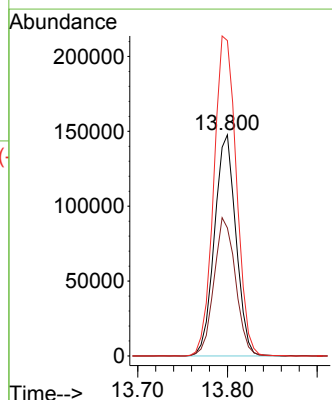
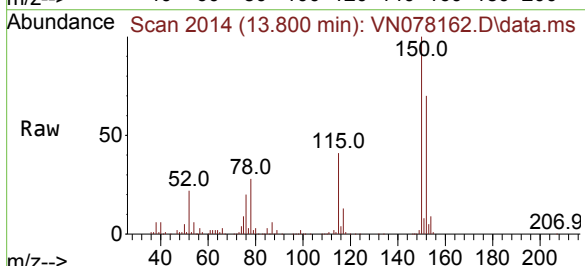
Tgt Ion:152 Resp: 245087

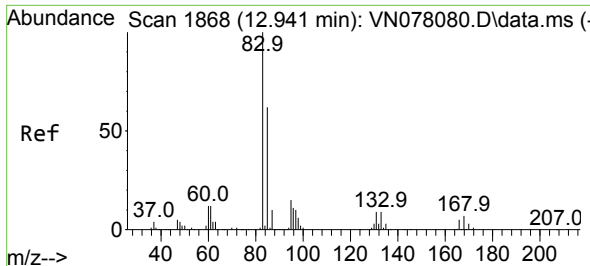
Ion Ratio Lower Upper

152 100

115 62.8 32.3 96.8

150 152.4 0.0 355.8

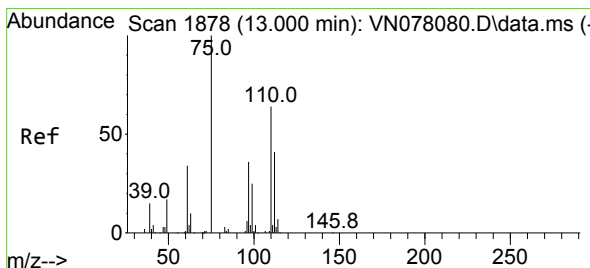
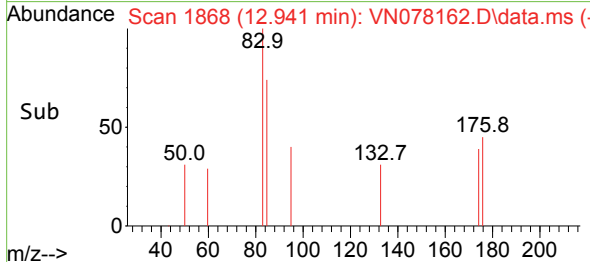
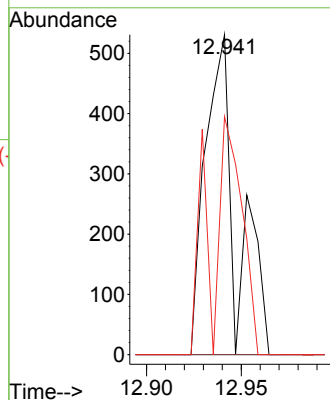
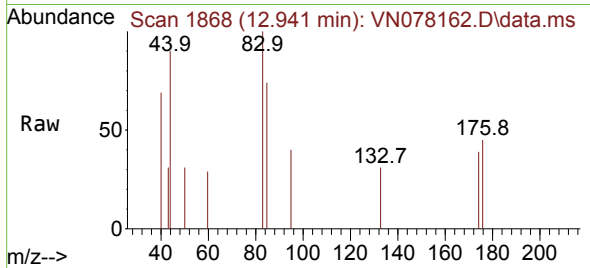




#75
 1,1,2,2-Tetrachloroethane
 Concen: Below Cal
 RT: 12.941 min Scan# 1868
 Delta R.T. 0.000 min
 Lab File: VN078162.D
 Acq: 12 Jun 2023 13:29

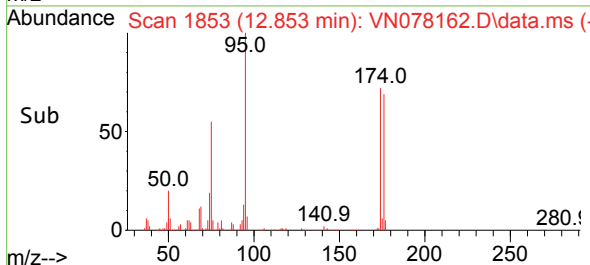
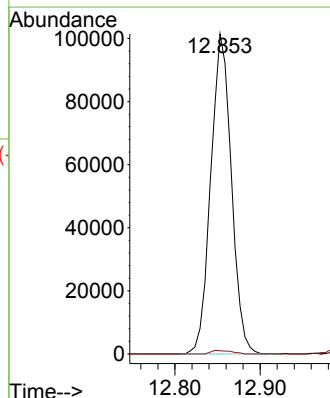
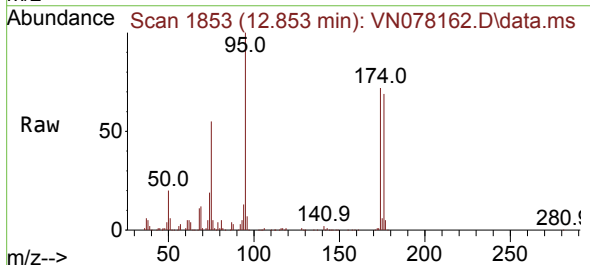
Instrument :
 MSVOA_N
 ClientSampleId :
 ACEDEMY-STREET-DRUM

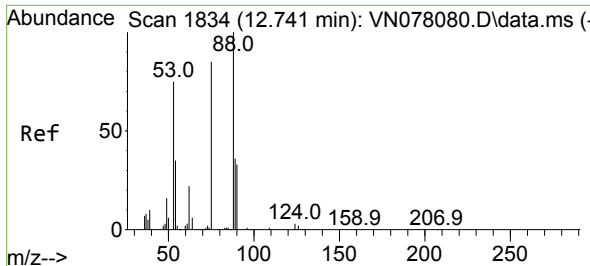
Tgt Ion: 83 Resp: 609
 Ion Ratio Lower Upper
 83 100
 131 0.0 5.0 15.0#
 85 74.1 31.9 95.7



#76
 1,2,3-Trichloropropane
 Concen: 29.467 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.147 min
 Lab File: VN078162.D
 Acq: 12 Jun 2023 13:29

Tgt Ion: 75 Resp: 170730
 Ion Ratio Lower Upper
 75 100
 77 1.1 84.5 253.5#

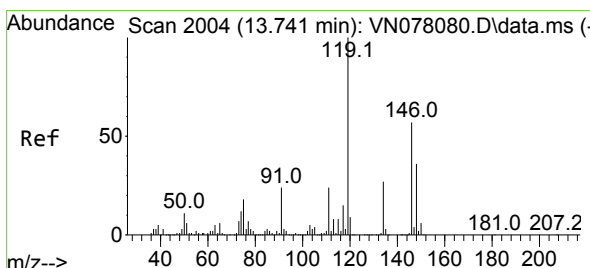
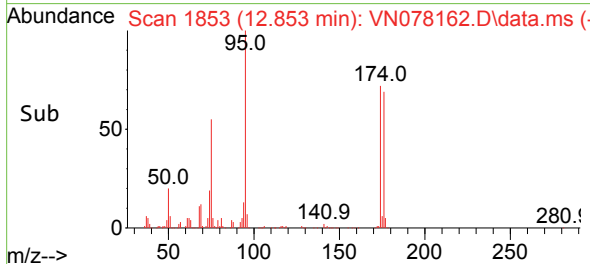
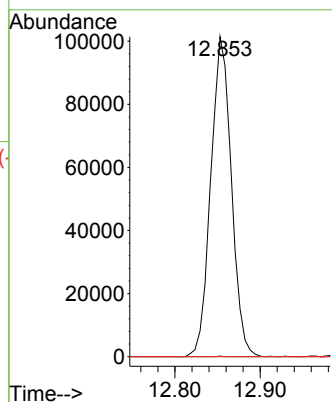
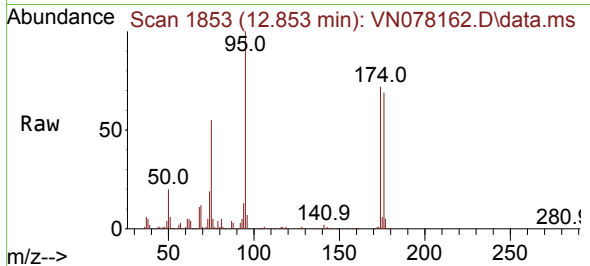




#81
trans-1,4-Dichloro-2-butene
Concen: 90.532 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078162.D
Acq: 12 Jun 2023 13:29

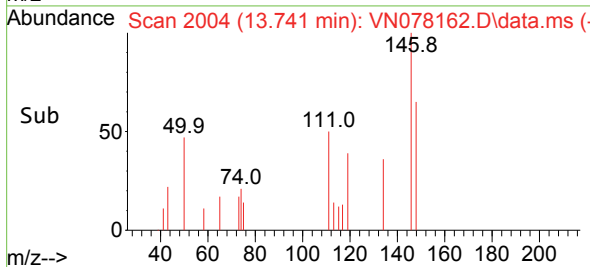
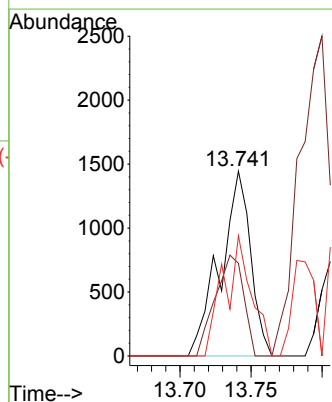
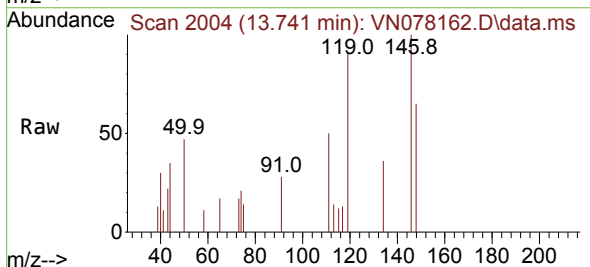
Instrument :
MSVOA_N
ClientSampleId :
ACEDEMY-STREET-DRUM

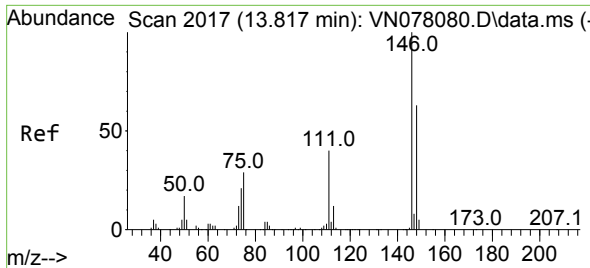
Tgt Ion: 75 Resp: 170730
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#



#87
1,3-Dichlorobenzene
Concen: 0.235 ug/l
RT: 13.741 min Scan# 2004
Delta R.T. 0.000 min
Lab File: VN078162.D
Acq: 12 Jun 2023 13:29

Tgt Ion:146 Resp: 2139
Ion Ratio Lower Upper
146 100
111 50.9 22.1 66.3
148 60.4 32.0 96.0

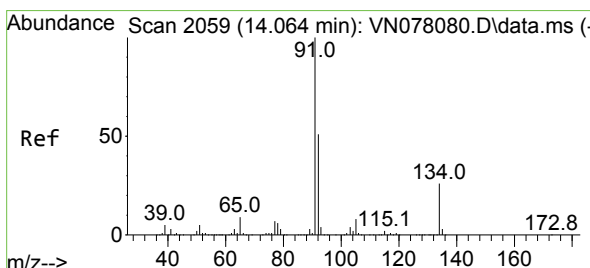
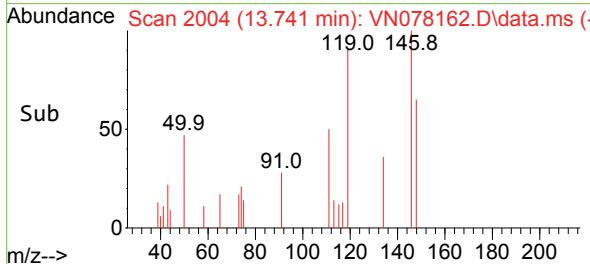
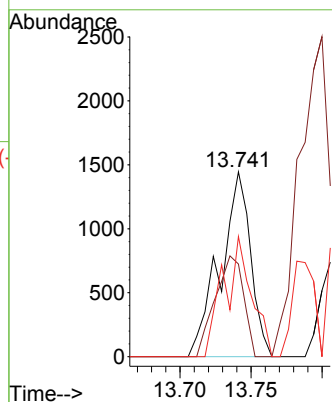
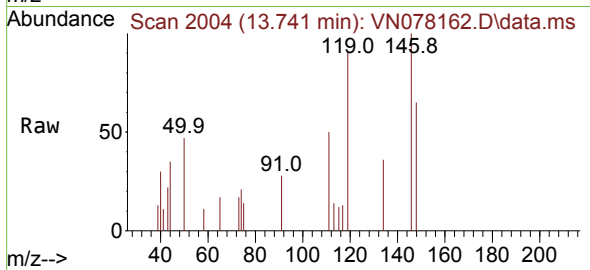




#88
1,4-Dichlorobenzene
Concen: 0.244 ug/l
RT: 13.741 min Scan# 2017
Delta R.T. -0.076 min
Lab File: VN078162.D
Acq: 12 Jun 2023 13:29

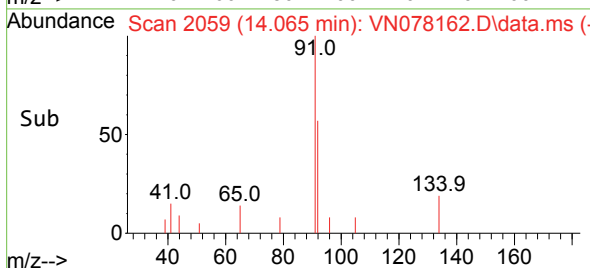
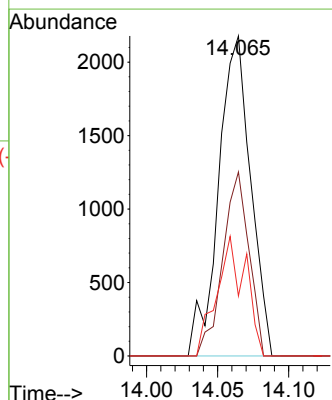
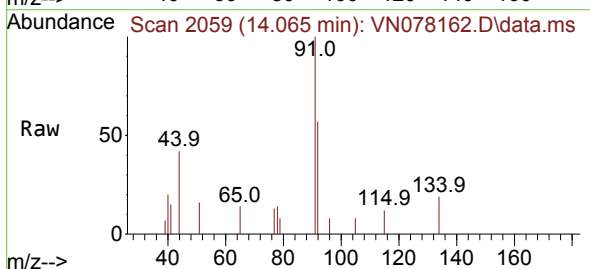
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MSVOA_N
ClientSampleId :
ACEDEMY-STREET-DRUM

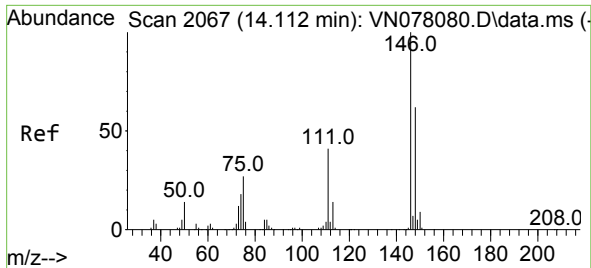
Tgt Ion:146 Resp: 2139
Ion Ratio Lower Upper
146 100
111 50.9 20.6 61.8
148 60.4 31.6 94.8



#89
n-Butylbenzene
Concen: 0.250 ug/l
RT: 14.065 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VN078162.D
Acq: 12 Jun 2023 13:29

Tgt Ion: 91 Resp: 3415
Ion Ratio Lower Upper
91 100
92 46.9 26.4 79.0
134 33.7 12.6 37.6

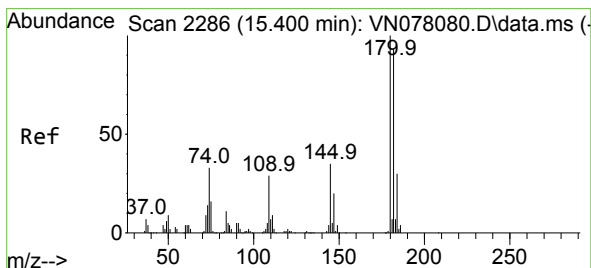
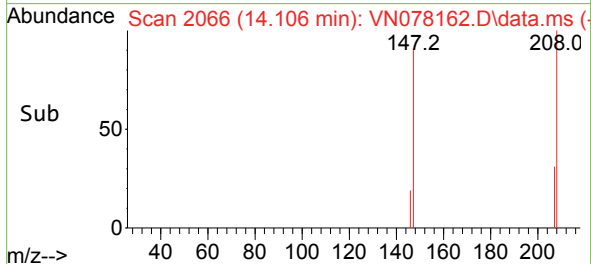
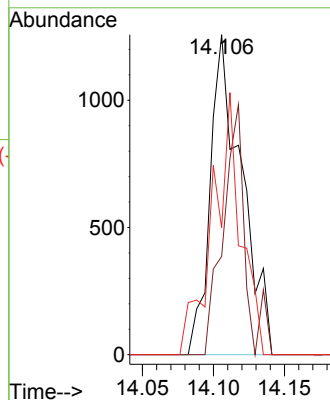
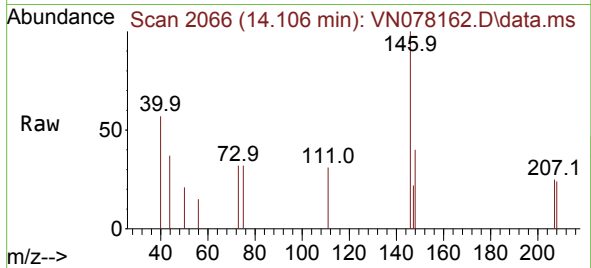




#91
1,2-Dichlorobenzene
Concen: 0.217 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. -0.006 min
Lab File: VN078162.D
Acq: 12 Jun 2023 13:29

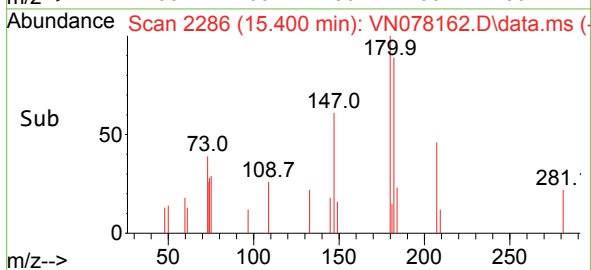
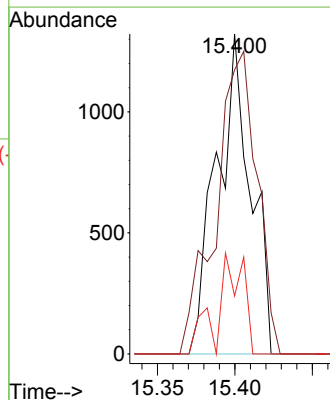
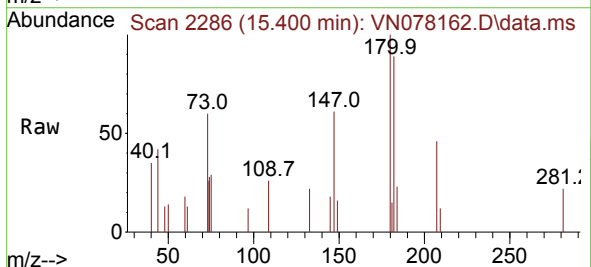
Instrument :
MSVOA_N
ClientSampleId :
ACEDEMY-STREET-DRUM

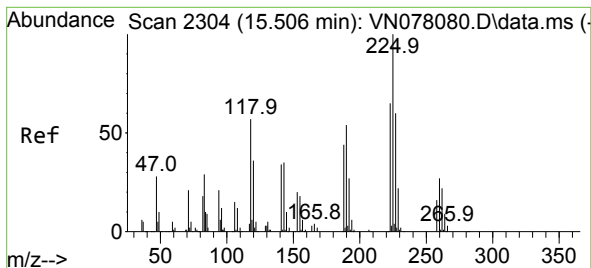
Tgt Ion:146 Resp: 1931
Ion Ratio Lower Upper
146 100
111 54.7 22.0 66.0
148 72.8 31.8 95.3



#93
1,2,4-Trichlorobenzene
Concen: 0.637 ug/l
RT: 15.400 min Scan# 2286
Delta R.T. 0.000 min
Lab File: VN078162.D
Acq: 12 Jun 2023 13:29

Tgt Ion:180 Resp: 2019
Ion Ratio Lower Upper
180 100
182 114.0 46.1 138.2
145 24.4 16.6 49.8





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.506 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN078162.D

Acq: 12 Jun 2023 13:29

Instrument :

MSVOA_N

ClientSampleId :

ACEDEMY-STREET-DRUM

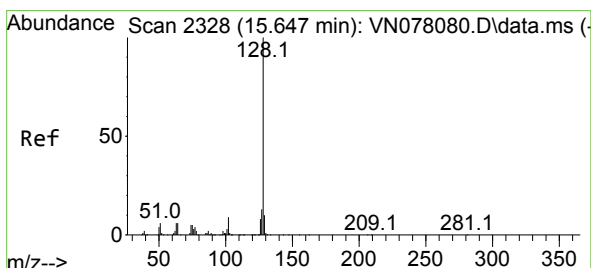
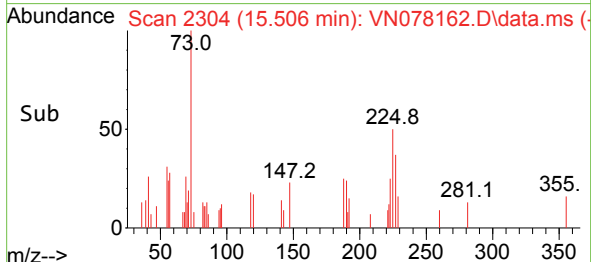
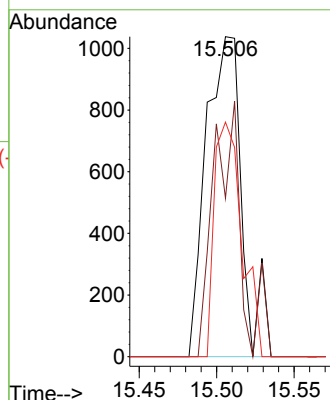
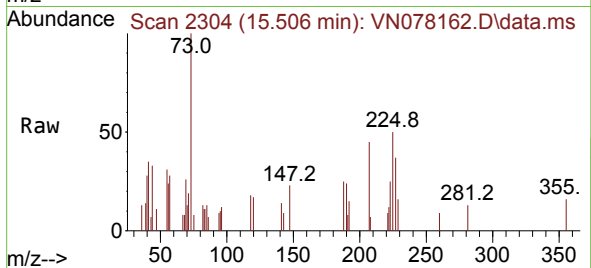
Tgt Ion:225 Resp: 1669

Ion Ratio Lower Upper

225 100

223 54.8 31.3 93.8

227 56.4 31.9 95.9



#95

Naphthalene

Concen: 0.723 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. -0.006 min

Lab File: VN078162.D

Acq: 12 Jun 2023 13:29

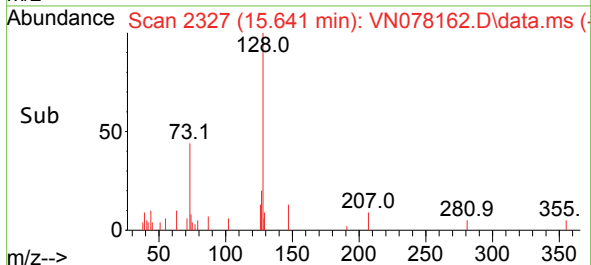
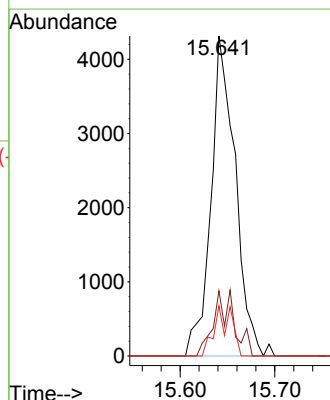
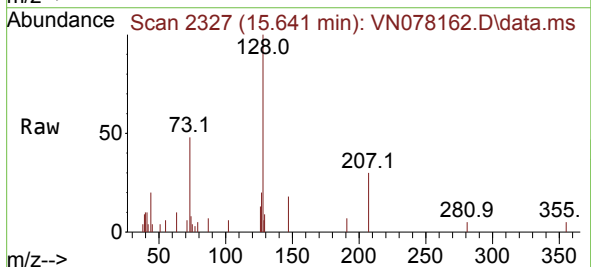
Tgt Ion:128 Resp: 7710

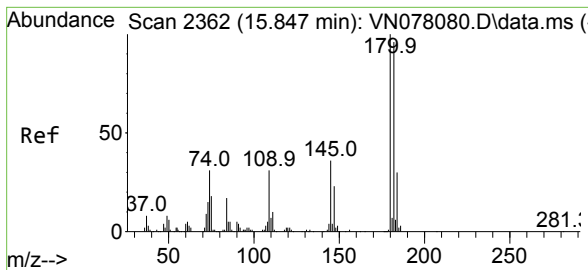
Ion Ratio Lower Upper

128 100

127 17.3 10.0 15.0#

129 11.1 8.7 13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 0.677 ug/l
 RT: 15.853 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN078162.D
 Acq: 12 Jun 2023 13:29

Instrument :
 MSVOA_N
 ClientSampleId :
 ACEDEMY-STREET-DRUM

Tgt Ion:	180	Resp:	2398
Ion	Ratio	Lower	Upper
180	100		
182	70.0	46.2	138.6
145	35.0	17.5	52.6

