

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031623\
 Data File : VX034563.D
 Acq On : 17 Mar 2023 04:51
 Operator : JC/MD
 Sample : 01908-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 HILLBOR-DRUMS-0314

Quant Time: Mar 17 07:52:47 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X031023W.M
 Quant Title : SW846 8260
 QLast Update : Mon Mar 13 10:29:32 2023
 Response via : Initial Calibration

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

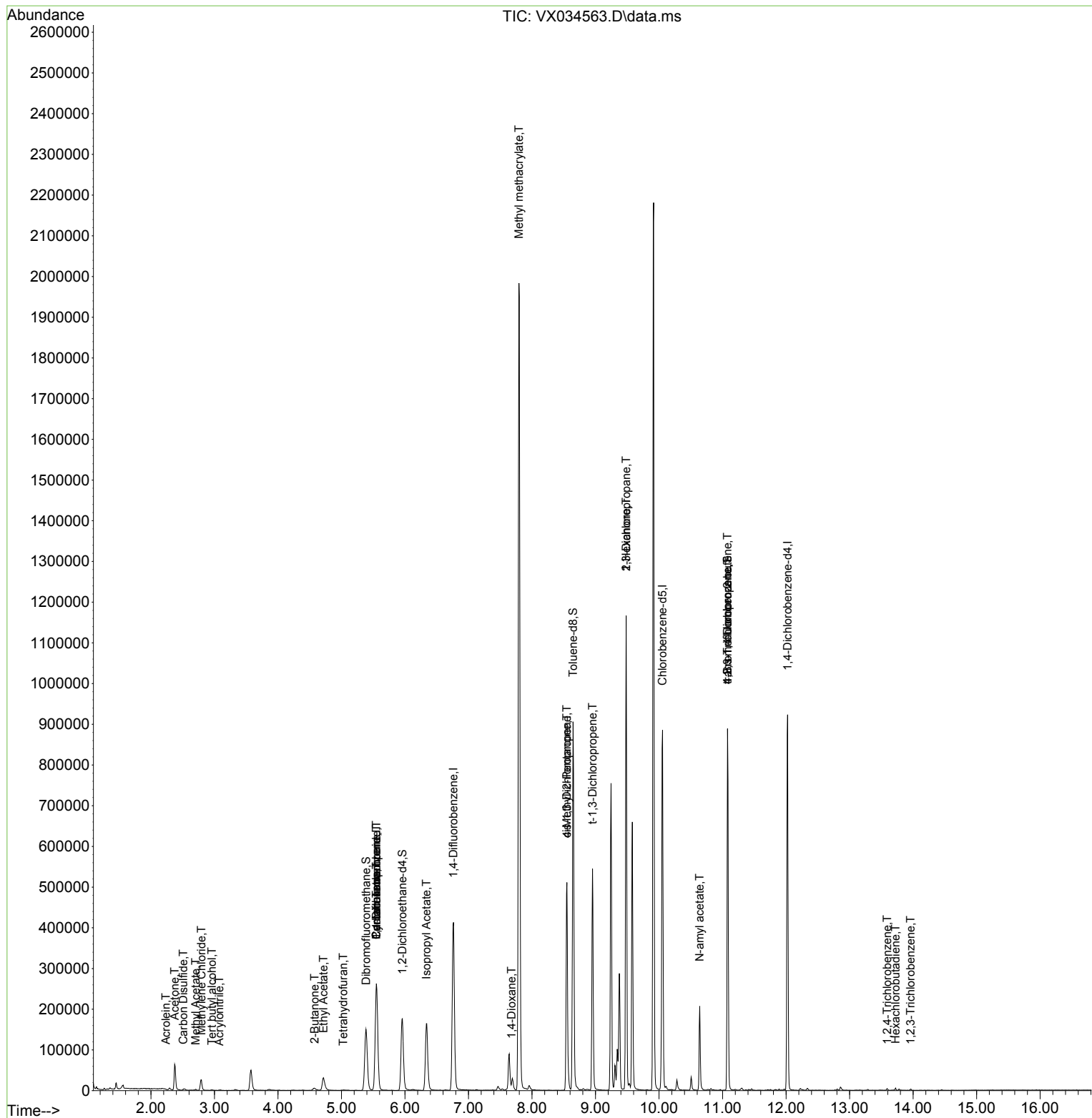
Internal Standards						
1) Pentafluorobenzene	5.550	168	242730	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	413936	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	375989	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	181375	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	169551	48.015	ug/l	0.01
Spiked Amount 50.000	Range 78 - 117		Recovery =	96.020%		
35) Dibromofluoromethane	5.385	113	130190	47.636	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	95.280%		
50) Toluene-d8	8.647	98	512336	50.217	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	100.440%		
62) 4-Bromofluorobenzene	11.079	95	236865	57.477	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	114.960%		
Target Compounds						Qvalue
3) Chloromethane	1.294	50	379	Below Cal		89
11) Tert butyl alcohol	2.959	59	1397	1.900 ug/l #		77
13) Acrolein	2.233	56	503	0.865 ug/l #		69
15) Acrylonitrile	3.075	53	416	0.262 ug/l #		76
16) Acetone	2.373	43	67728	40.717 ug/l		99
17) Carbon Disulfide	2.508	76	2437	0.326 ug/l #		86
18) Methyl Acetate	2.703	43	2487	0.458 ug/l		96
20) Methylene Chloride	2.794	84	11727	3.633 ug/l		95
25) 2-Butanone	4.574	43	8329	3.499 ug/l		92
29) Tetrahydrofuran	5.025	42	1217	0.829 ug/l #		69
31) Cyclohexane	5.550	56	6206	1.253 ug/l #		27
36) 1,1-Dichloropropene	5.550	75	20715	4.935 ug/l #		50
37) Ethyl Acetate	4.714	43	55621	12.129 ug/l		98
38) Carbon Tetrachloride	5.550	117	26247	6.285 ug/l #		16
43) Isopropyl Acetate	6.336	43	232731	29.957 ug/l		100
48) Methyl methacrylate	7.793	41	181029	48.450 ug/l #		47
49) 1,4-Dioxane	7.677	88	30	0.382 ug/l #		1
51) 4-Methyl-2-Pentanone	8.549	43	187157	41.528 ug/l #		50
53) t-1,3-Dichloropropene	8.952	75	1063	0.224 ug/l #		43
54) cis-1,3-Dichloropropene	8.549	75	78470	15.260 ug/l #		61
57) 1,3-Dichloropropane	9.482	76	9224	1.720 ug/l #		43
59) 2-Hexanone	9.482	43	134106	38.494 ug/l #		52
74) N-amyl acetate	10.640	43	55912	8.327 ug/l #		53
76) 1,2,3-Trichloropropane	11.079	75	128692	30.902 ug/l #		34
81) trans-1,4-Dichloro-2-b...	11.079	75	128692	83.598 ug/l #		8
93) 1,2,4-Trichlorobenzene	13.591	180	842	0.211 ug/l		84
94) Hexachlorobutadiene	13.725	225	535	0.333 ug/l #		70
96) 1,2,3-Trichlorobenzene	13.963	180	813	0.209 ug/l		94

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

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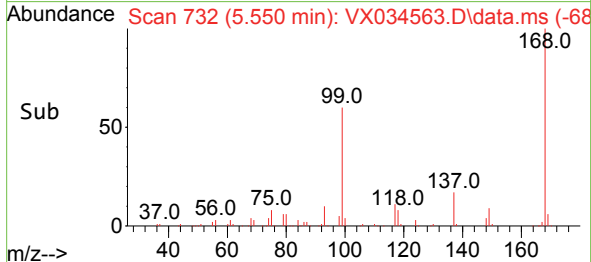
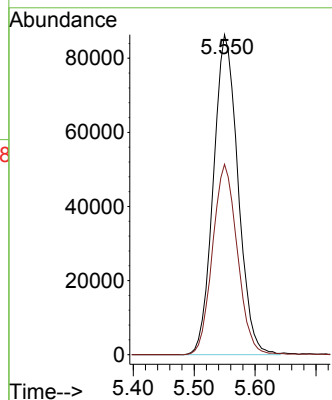
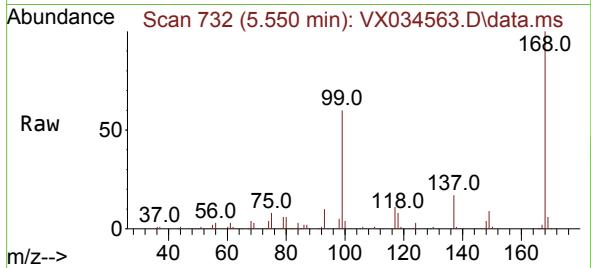




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX034563.D
Acq: 17 Mar 2023 04:51

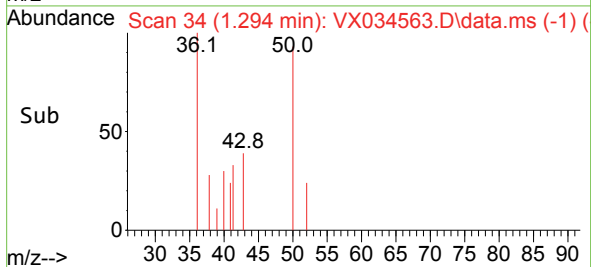
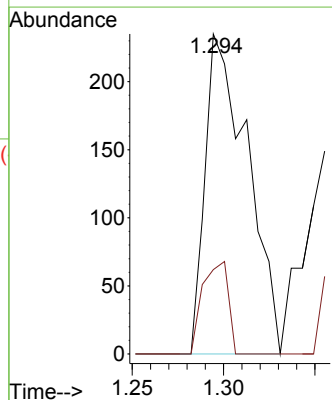
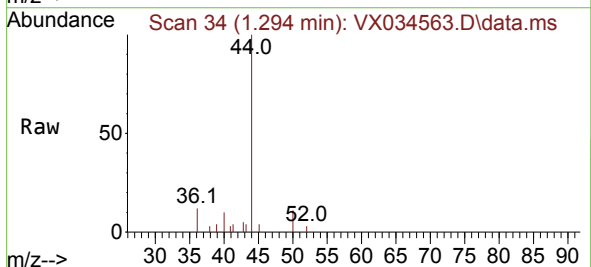
Instrument :
MSVOA_X
ClientSampleId :
HILLBOR-DRUMS-0314

Tgt Ion:168 Resp: 242730
Ion Ratio Lower Upper
168 100
99 59.5 45.7 68.5



#3
Chloromethane
Concen: Below Cal
RT: 1.294 min Scan# 34
Delta R.T. -0.007 min
Lab File: VX034563.D
Acq: 17 Mar 2023 04:51

Tgt Ion: 50 Resp: 379
Ion Ratio Lower Upper
50 100
52 26.4 25.9 38.9

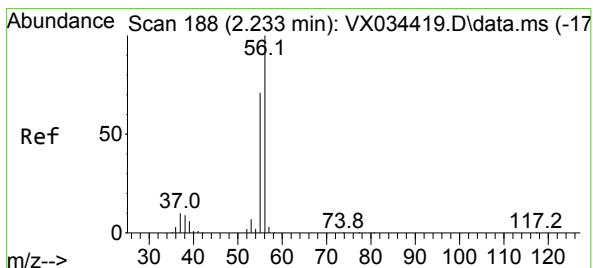
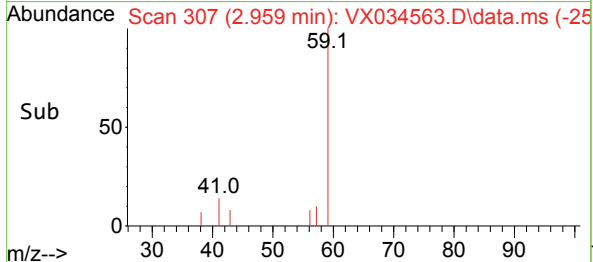
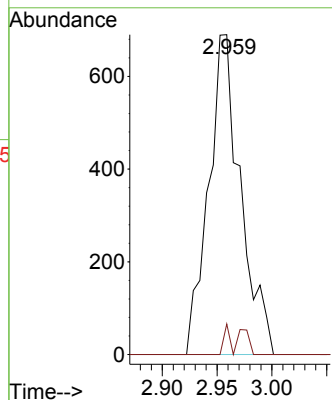
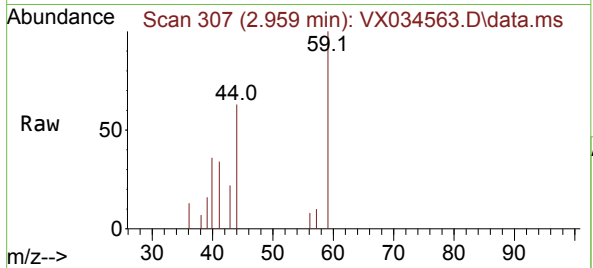




#11
Tert butyl alcohol
Concen: 1.900 ug/l
RT: 2.959 min Scan# 306
Delta R.T. 0.006 min
Lab File: VX034563.D
Acq: 17 Mar 2023 04:51

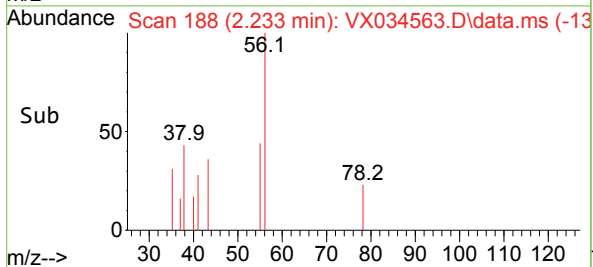
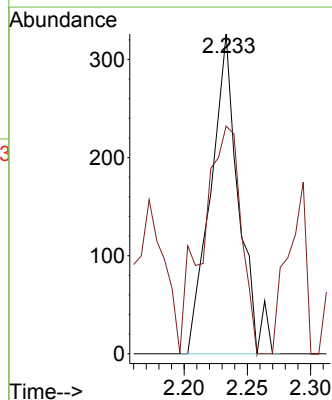
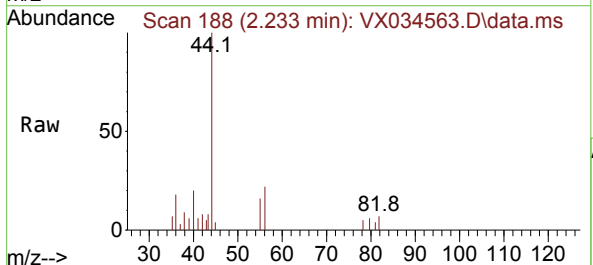
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MSVOA_X
ClientSampleId :
HILLBOR-DRUMS-0314

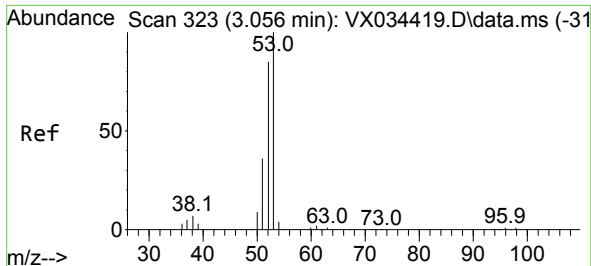
Tgt Ion: 59 Resp: 1397
Ion Ratio Lower Upper
59 100
57 1.7 8.1 12.1#



#13
Acrolein
Concen: 0.865 ug/l
RT: 2.233 min Scan# 188
Delta R.T. 0.000 min
Lab File: VX034563.D
Acq: 17 Mar 2023 04:51

Tgt Ion: 56 Resp: 503
Ion Ratio Lower Upper
56 100
55 96.4 56.6 85.0#

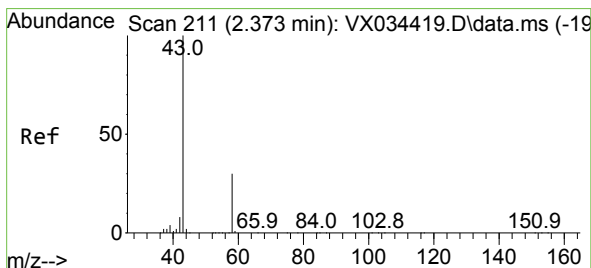
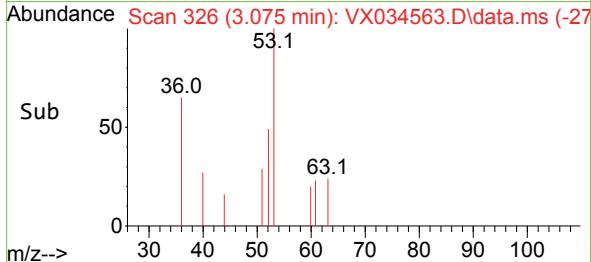
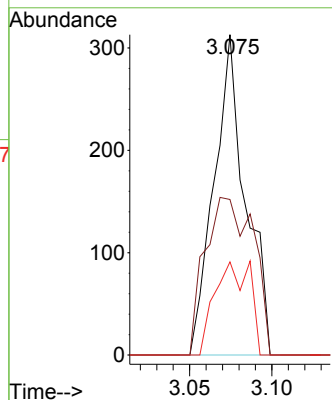
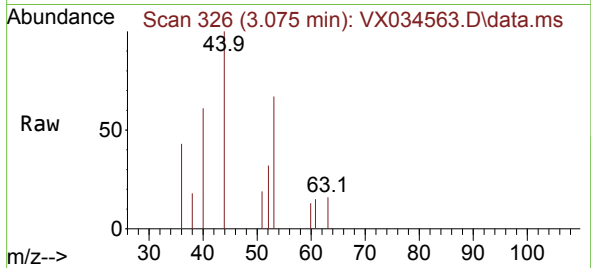




#15
Acrylonitrile
Concen: 0.262 ug/l
RT: 3.075 min Scan# 31
Delta R.T. 0.019 min
Lab File: VX034563.D
Acq: 17 Mar 2023 04:51

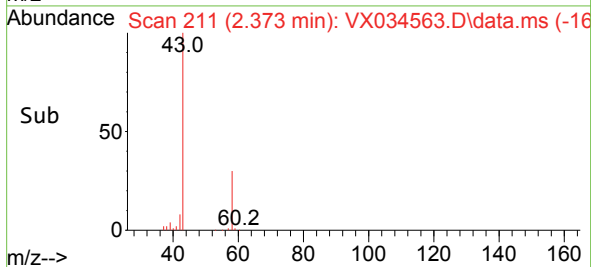
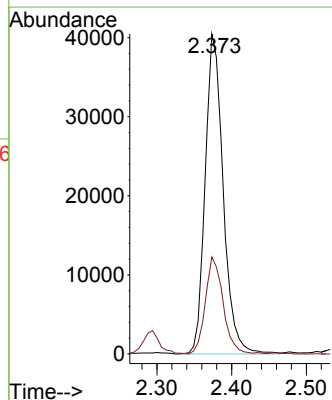
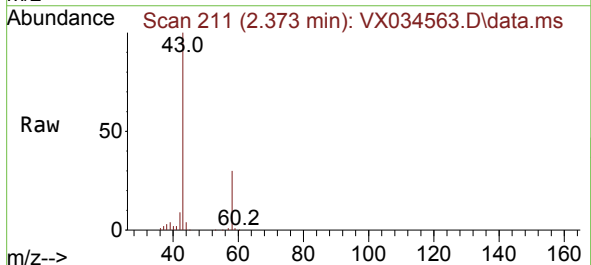
Instrument :
MSVOA_X
ClientSampleId :
HILLBOR-DRUMS-0314

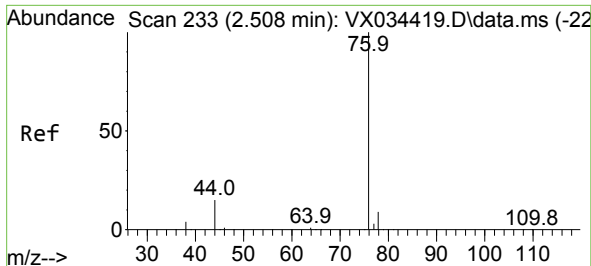
Tgt Ion: 53 Resp: 416
Ion Ratio Lower Upper
53 100
52 75.5 66.2 99.2
51 0.0 28.3 42.5#



#16
Acetone
Concen: 40.717 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX034563.D
Acq: 17 Mar 2023 04:51

Tgt Ion: 43 Resp: 67728
Ion Ratio Lower Upper
43 100
58 30.1 24.7 37.1





#17

Carbon Disulfide

Concen: 0.326 ug/l

RT: 2.508 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX034563.D

Acq: 17 Mar 2023 04:51

Instrument :

MSVOA_X

ClientSampleId :

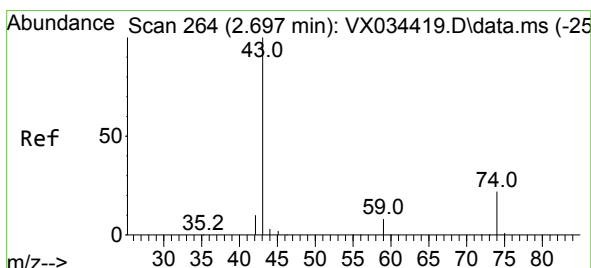
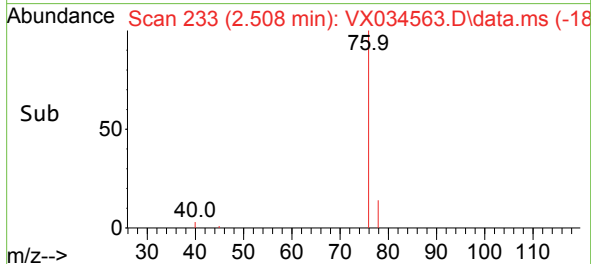
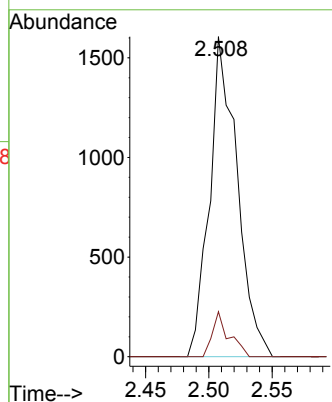
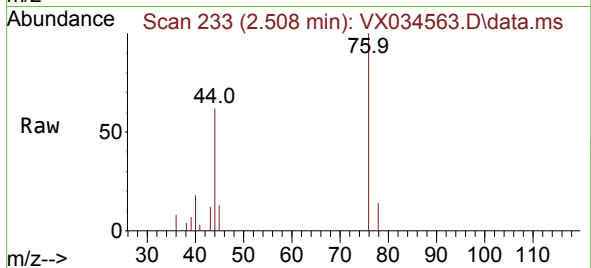
HILLBOR-DRUMS-0314

Tgt Ion: 76 Resp: 2437

Ion Ratio Lower Upper

76 100

78 14.1 7.2 10.8#



#18

Methyl Acetate

Concen: 0.458 ug/l

RT: 2.703 min Scan# 265

Delta R.T. 0.006 min

Lab File: VX034563.D

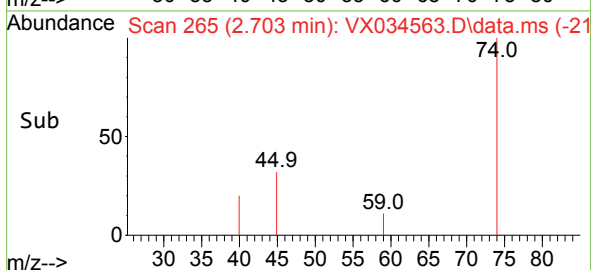
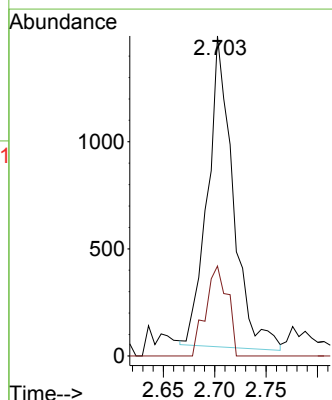
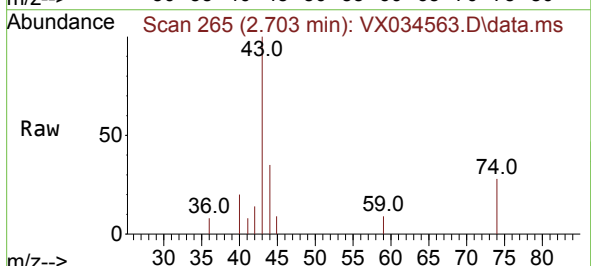
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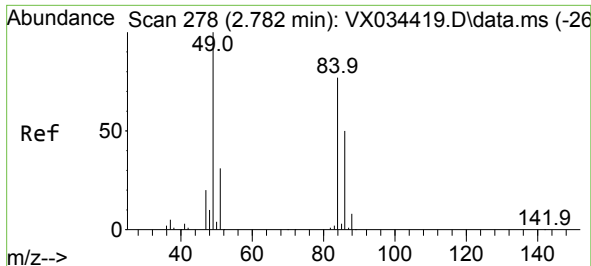
Tgt Ion: 43 Resp: 2487

Ion Ratio Lower Upper

43 100

74 24.8 18.3 27.5

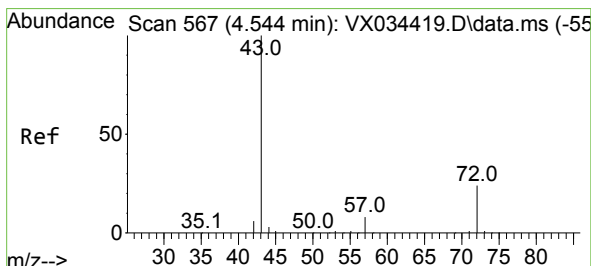
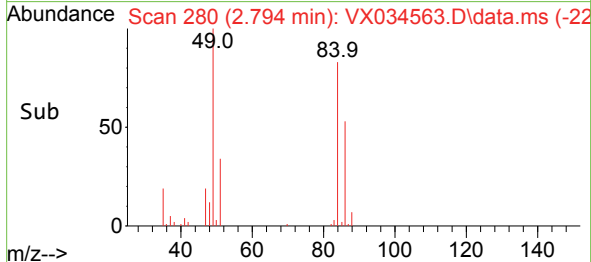
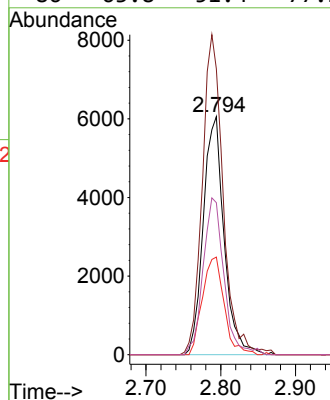
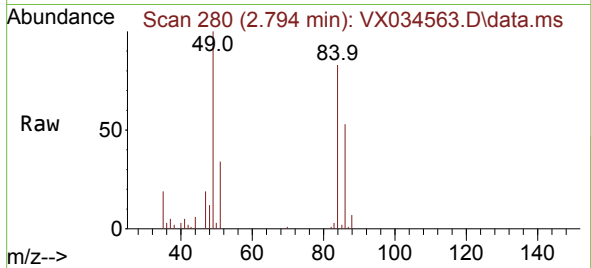




#20
Methylene Chloride
Concen: 3.633 ug/l
RT: 2.794 min Scan# 21
Delta R.T. 0.012 min
Lab File: VX034563.D
Acq: 17 Mar 2023 04:51

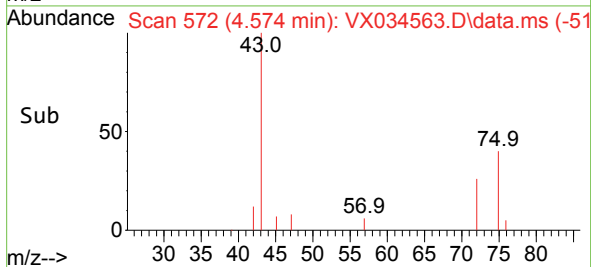
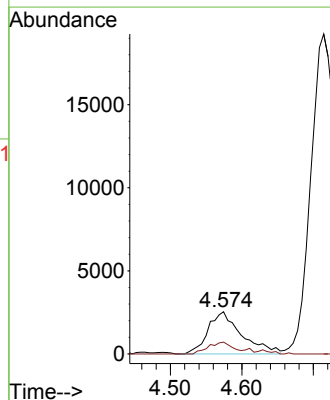
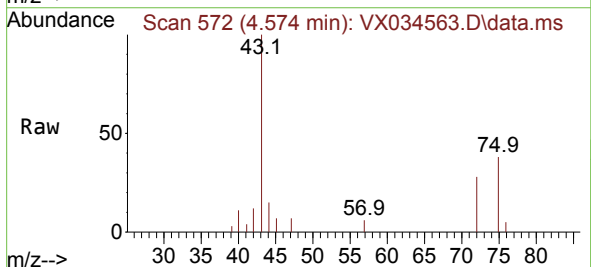
Instrument :
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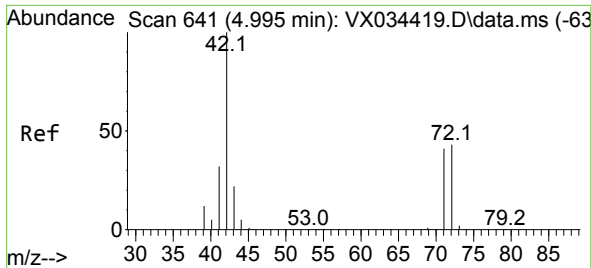
Tgt Ion:	84	Resp:	11727
Ion	Ratio	Lower	Upper
84	100		
49	120.0	103.8	155.8
51	41.0	31.8	47.8
86	63.8	51.4	77.2



#25
2-Butanone
Concen: 3.499 ug/l
RT: 4.574 min Scan# 572
Delta R.T. 0.030 min
Lab File: VX034563.D
Acq: 17 Mar 2023 04:51

Tgt Ion:	43	Resp:	8329
Ion	Ratio	Lower	Upper
43	100		
72	27.9	19.3	28.9





#29

Tetrahydrofuran

Concen: 0.829 ug/l

RT: 5.025 min Scan# 641

Delta R.T. 0.030 min

Lab File: VX034563.D

Acq: 17 Mar 2023 04:51

Instrument :

MSVOA_X

ClientSampleId :

HILLBOR-DRUMS-0314

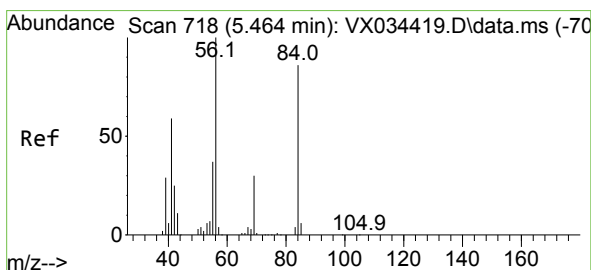
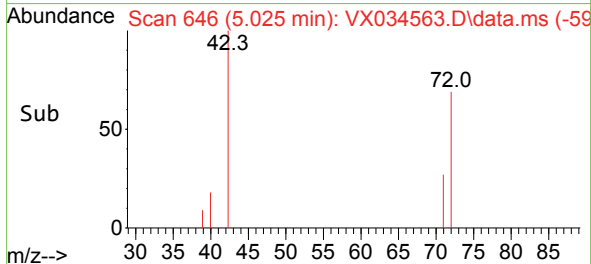
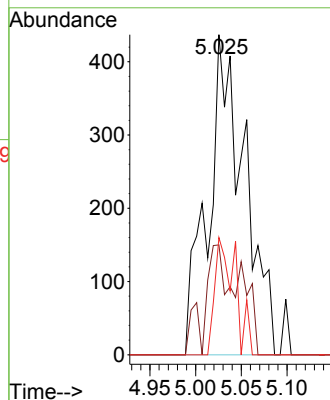
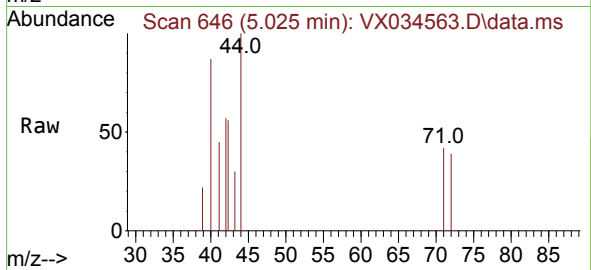
Tgt Ion: 42 Resp: 1217

Ion Ratio Lower Upper

42 100

72 23.7 34.5 51.7#

71 20.5 32.1 48.1#



#31

Cyclohexane

Concen: 1.253 ug/l

RT: 5.550 min Scan# 732

Delta R.T. 0.085 min

Lab File: VX034563.D

Acq: 17 Mar 2023 04:51

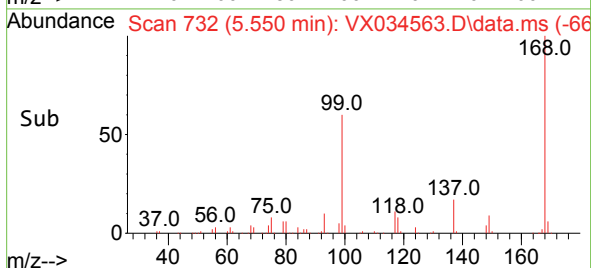
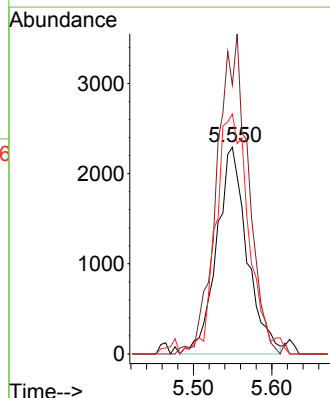
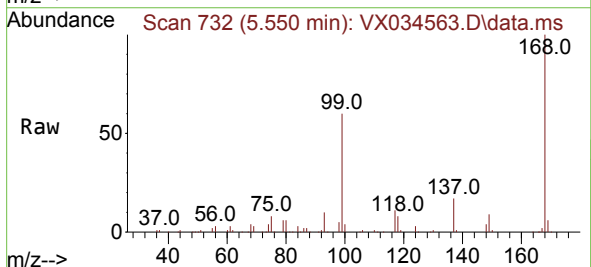
Tgt Ion: 56 Resp: 6206

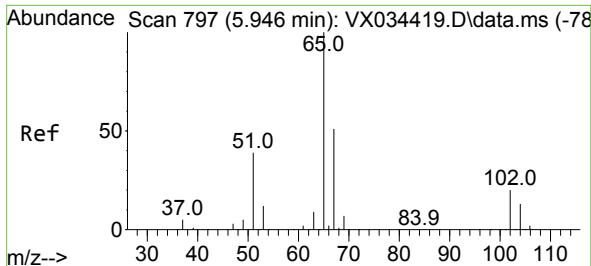
Ion Ratio Lower Upper

56 100

69 130.1 23.7 35.5#

84 116.1 68.5 102.7#





#33

1,2-Dichloroethane-d4

Concen: 48.015 ug/l

RT: 5.958 min Scan# 797

Delta R.T. 0.012 min

Lab File: VX034563.D

Acq: 17 Mar 2023 04:51

Instrument :

MSVOA_X

ClientSampleId :

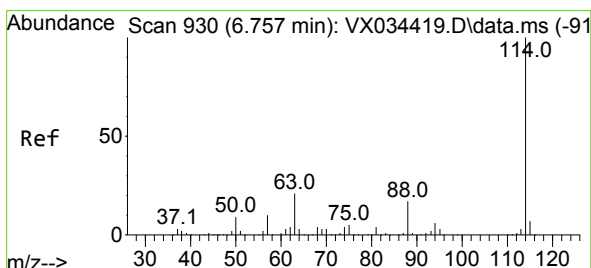
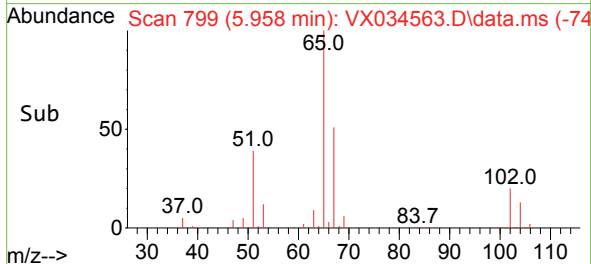
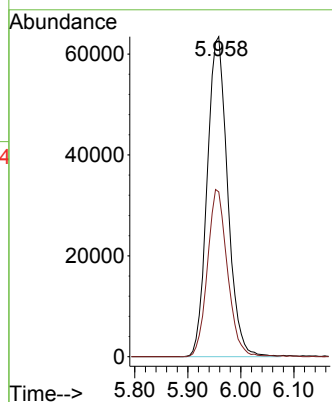
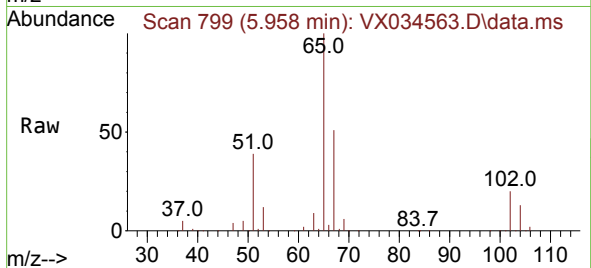
HILLBOR-DRUMS-0314

Tgt Ion: 65 Resp: 169551

Ion Ratio Lower Upper

65 100

67 51.4 0.0 104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.006 min

Lab File: VX034563.D

Acq: 17 Mar 2023 04:51

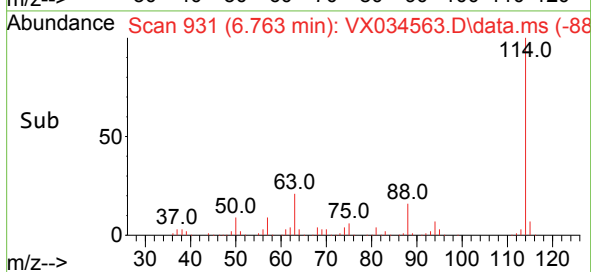
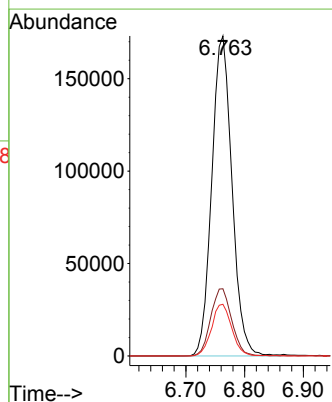
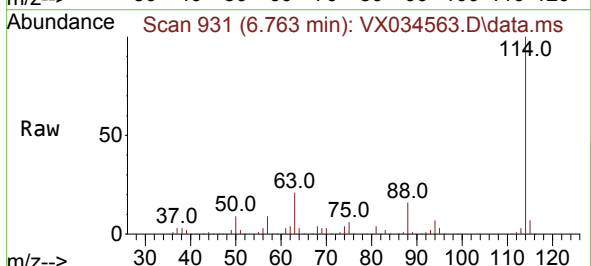
Tgt Ion: 114 Resp: 413936

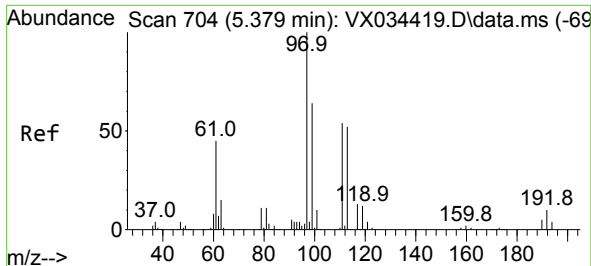
Ion Ratio Lower Upper

114 100

63 21.0 0.0 42.2

88 16.1 0.0 33.2

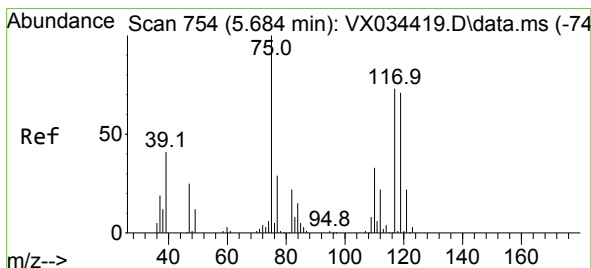
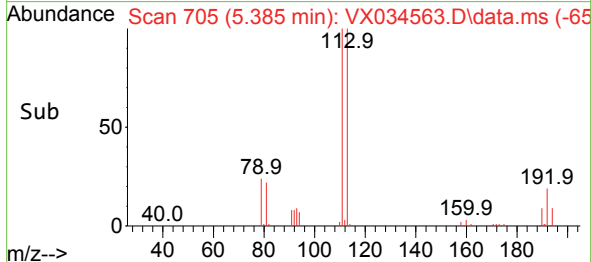
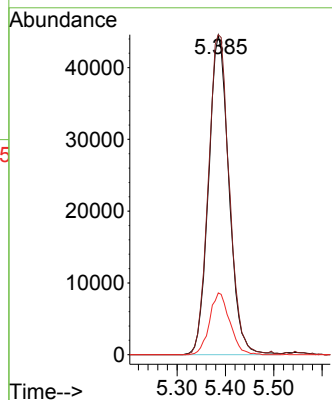
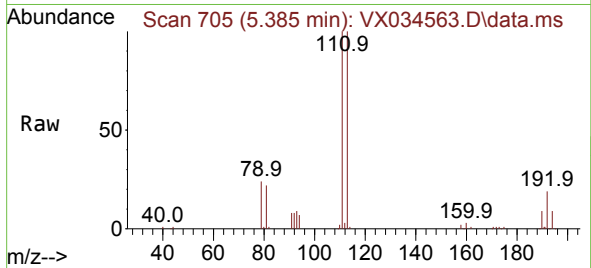




#35
Dibromofluoromethane
Concen: 47.636 ug/l
RT: 5.385 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX034563.D
Acq: 17 Mar 2023 04:51

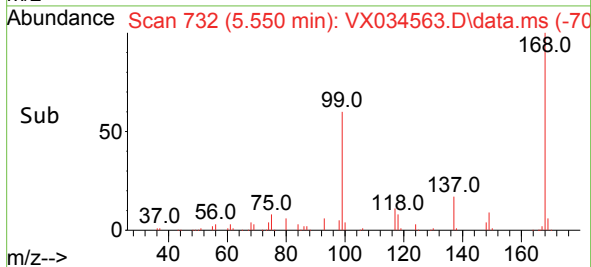
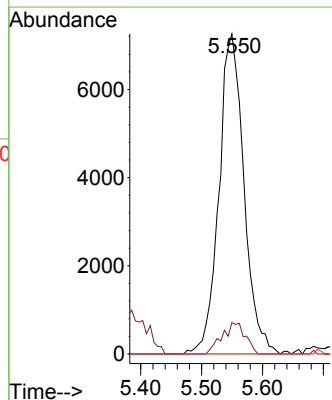
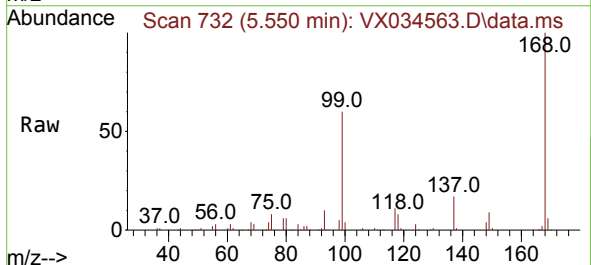
Instrument :
MSVOA_X
ClientSampleId :
HILLBOR-DRUMS-0314

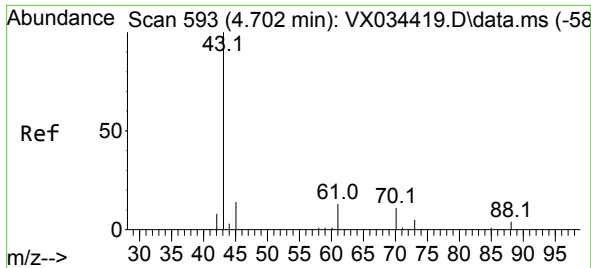
Tgt Ion:113 Resp: 130190
Ion Ratio Lower Upper
113 100
111 102.6 83.7 125.5
192 19.2 15.4 23.2



#36
1,1-Dichloropropene
Concen: 4.935 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.134 min
Lab File: VX034563.D
Acq: 17 Mar 2023 04:51

Tgt Ion: 75 Resp: 20715
Ion Ratio Lower Upper
75 100
110 9.1 17.5 52.5#
77 0.0 24.3 36.5#

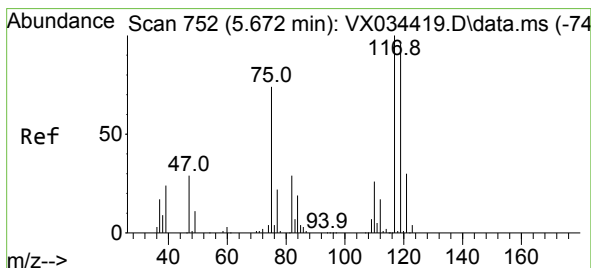
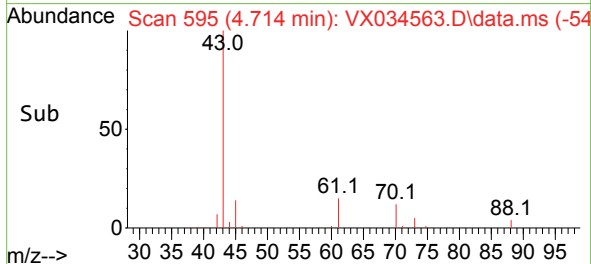
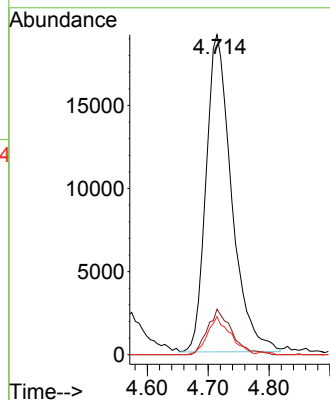
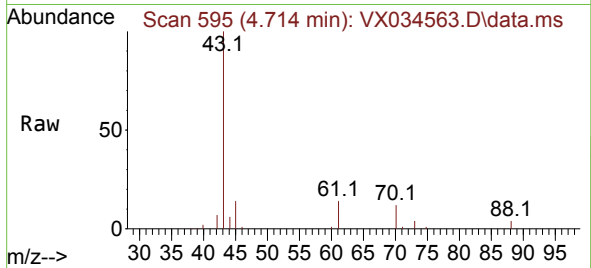




#37
Ethyl Acetate
Concen: 12.129 ug/l
RT: 4.714 min Scan# 593
Delta R.T. 0.012 min
Lab File: VX034563.D
Acq: 17 Mar 2023 04:51

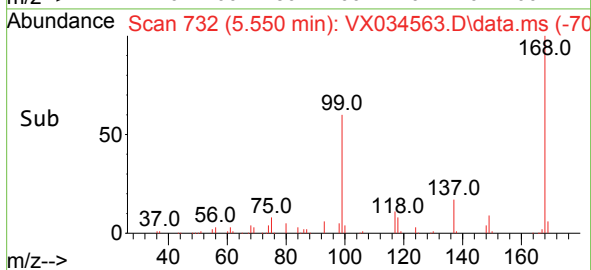
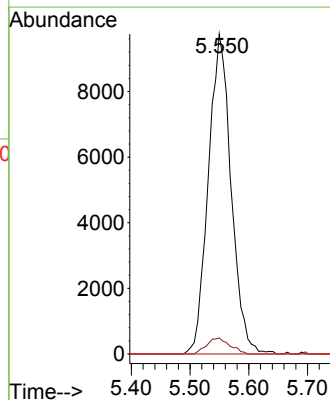
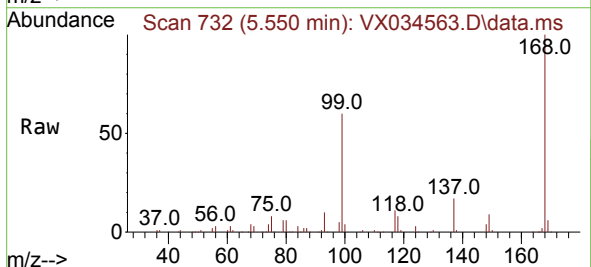
Instrument :
MSVOA_X
ClientSampleId :
HILLBOR-DRUMS-0314

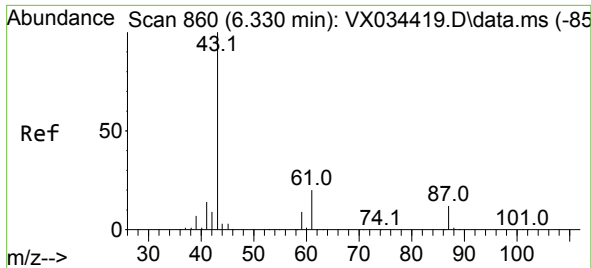
Tgt Ion:	43	Resp:	55621
Ion Ratio	Lower	Upper	
43	100		
61	13.7	10.2	15.4
70	10.8	8.2	12.4



#38
Carbon Tetrachloride
Concen: 6.285 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.122 min
Lab File: VX034563.D
Acq: 17 Mar 2023 04:51

Tgt Ion:	117	Resp:	26247
Ion Ratio	Lower	Upper	
117	100		
119	5.0	76.6	114.8#
121	0.0	23.8	35.6#

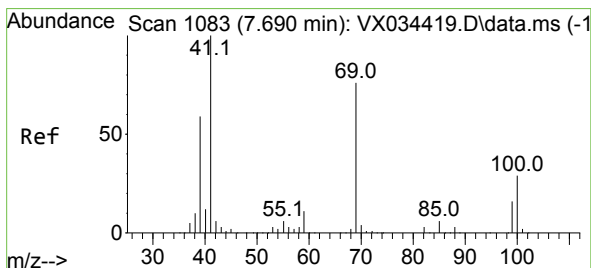
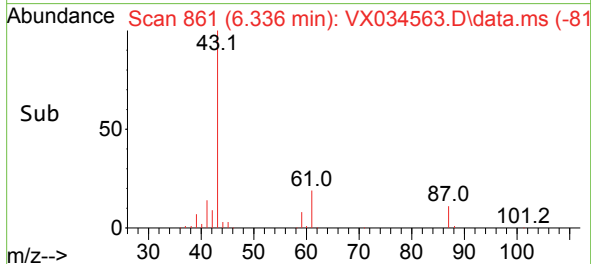
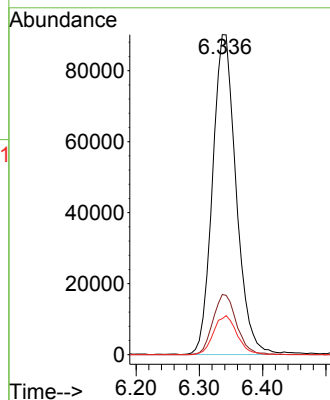
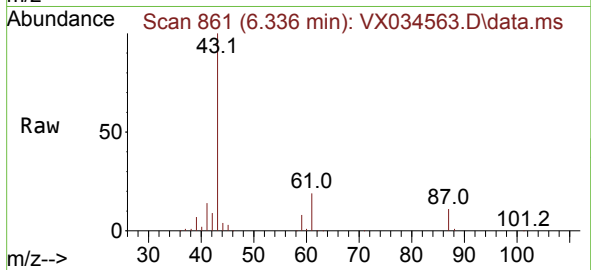




#43
Isopropyl Acetate
Concen: 29.957 ug/l
RT: 6.336 min Scan# 861
Delta R.T. 0.006 min
Lab File: VX034563.D
Acq: 17 Mar 2023 04:51

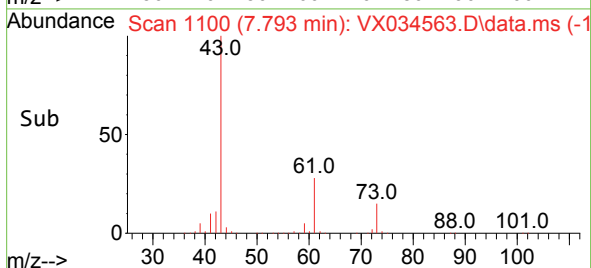
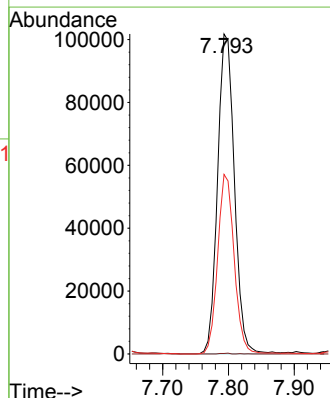
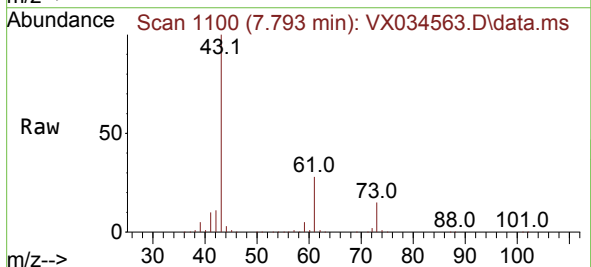
Instrument :
MSVOA_X
ClientSampleId :
HILLBOR-DRUMS-0314

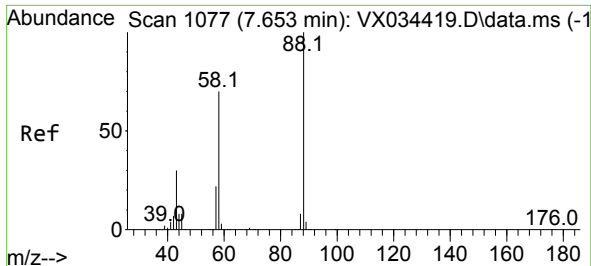
Tgt Ion:	43	Resp:	232731
Ion	Ratio	Lower	Upper
43	100		
61	18.9	15.2	22.8
87	12.2	9.8	14.8



#48
Methyl methacrylate
Concen: 48.450 ug/l
RT: 7.793 min Scan# 1100
Delta R.T. 0.104 min
Lab File: VX034563.D
Acq: 17 Mar 2023 04:51

Tgt Ion:	41	Resp:	181029
Ion	Ratio	Lower	Upper
41	100		
69	0.1	62.2	93.4
39	55.3	47.7	71.5

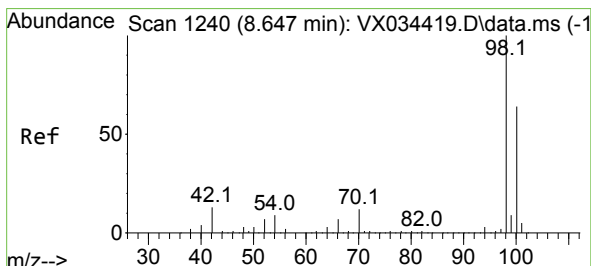
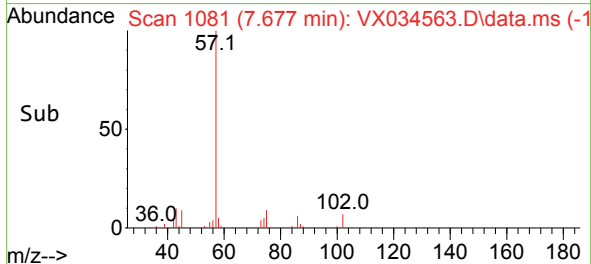
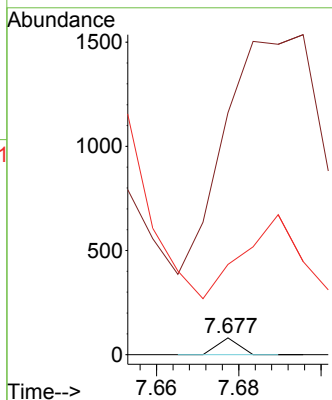
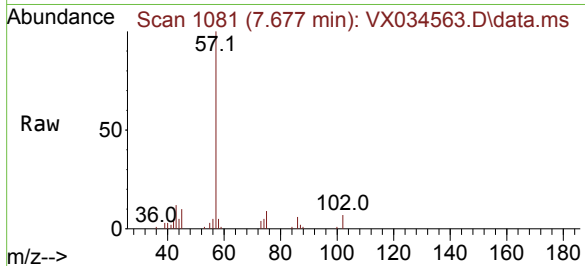




#49
1,4-Dioxane
Concen: 0.382 ug/l
RT: 7.677 min Scan# 1077
Delta R.T. 0.024 min
Lab File: VX034563.D
Acq: 17 Mar 2023 04:51

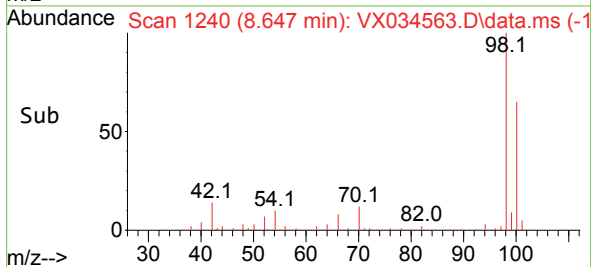
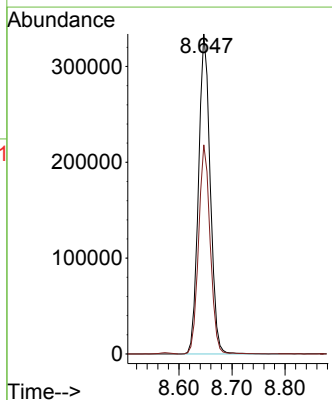
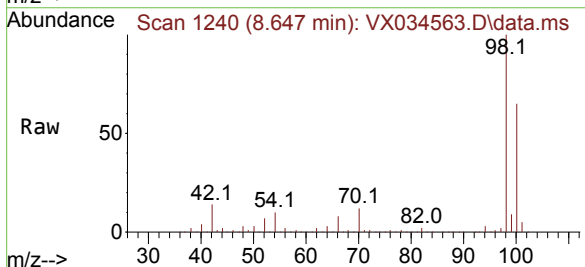
Instrument :
MSVOA_X
ClientSampleId :
HILLBOR-DRUMS-0314

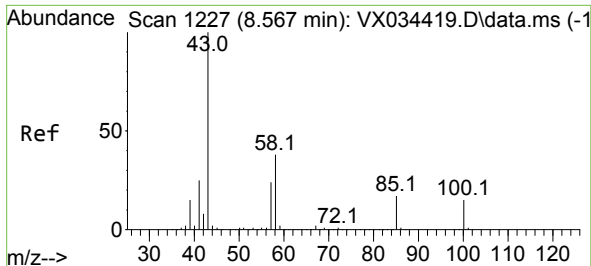
Tgt Ion: 88 Resp: 30
Ion Ratio Lower Upper
88 100
43 0.0 27.7 41.5#
58 4033.3 56.8 85.2#



#50
Toluene-d8
Concen: 50.217 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX034563.D
Acq: 17 Mar 2023 04:51

Tgt Ion: 98 Resp: 512336
Ion Ratio Lower Upper
98 100
100 64.9 52.5 78.7

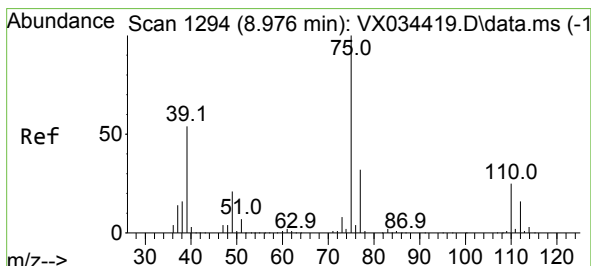
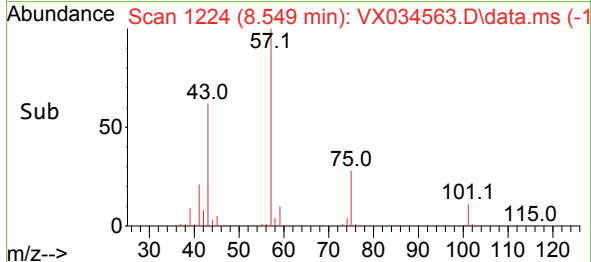
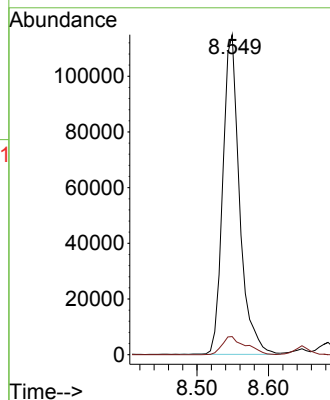
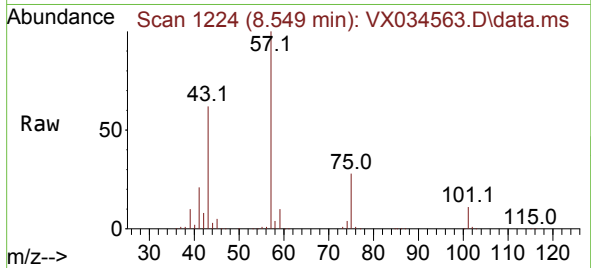




#51
4-Methyl-2-Pentanone
Concen: 41.528 ug/l
RT: 8.549 min Scan# 11
Delta R.T. -0.018 min
Lab File: VX034563.D
Acq: 17 Mar 2023 04:51

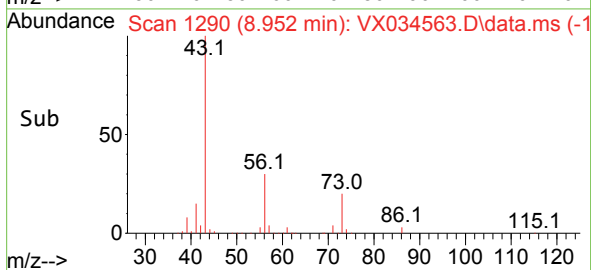
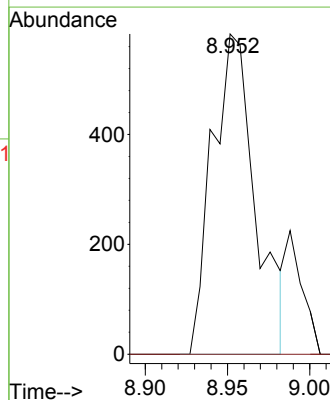
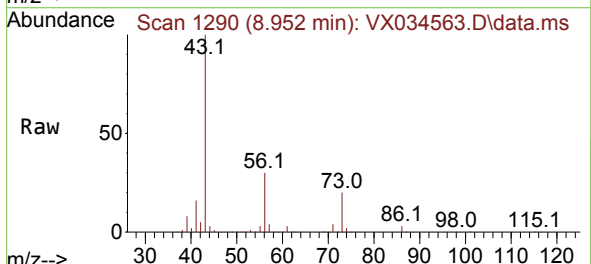
Instrument :
MSVOA_X
ClientSampleId :
HILLBOR-DRUMS-0314

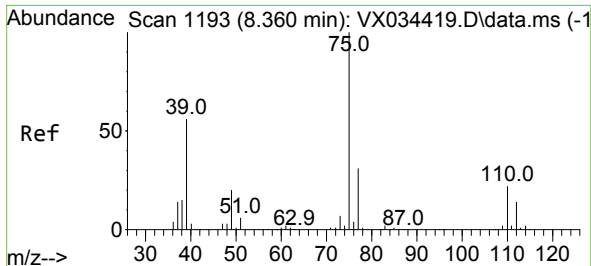
Tgt Ion: 43 Resp: 187157
Ion Ratio Lower Upper
43 100
58 8.0 30.6 46.0#



#53
t-1,3-Dichloropropene
Concen: 0.224 ug/l
RT: 8.952 min Scan# 1290
Delta R.T. -0.024 min
Lab File: VX034563.D
Acq: 17 Mar 2023 04:51

Tgt Ion: 75 Resp: 1063
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.2#

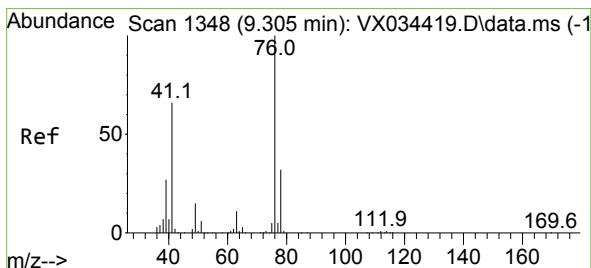
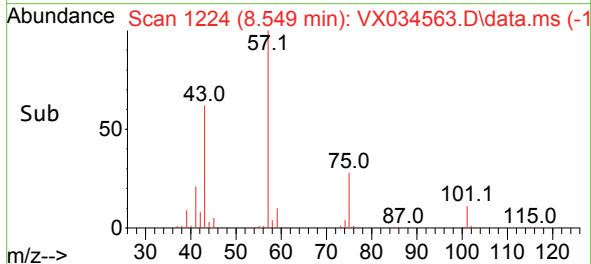
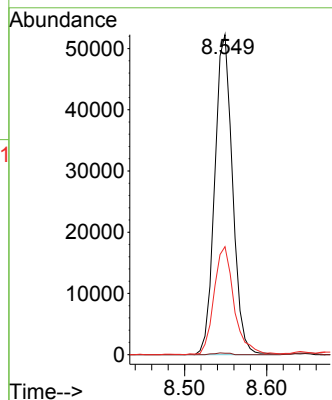
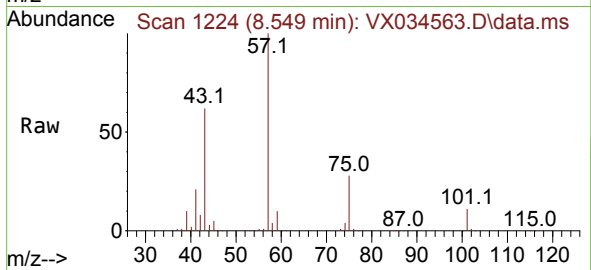




#54
cis-1,3-Dichloropropene
Concen: 15.260 ug/l
RT: 8.549 min Scan# 1193
Delta R.T. 0.189 min
Lab File: VX034563.D
Acq: 17 Mar 2023 04:51

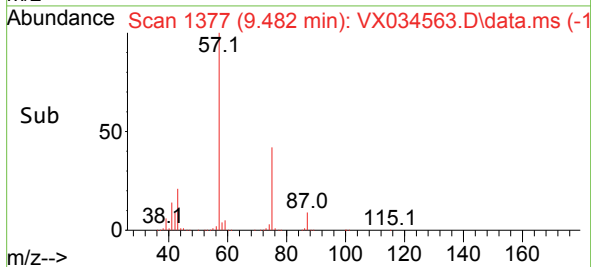
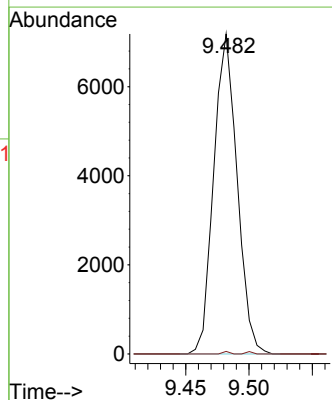
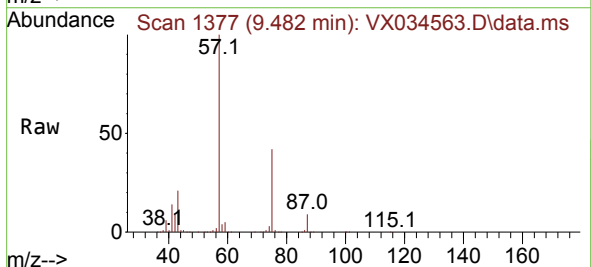
Instrument :
MSVOA_X
ClientSampleId :
HILLBOR-DRUMS-0314

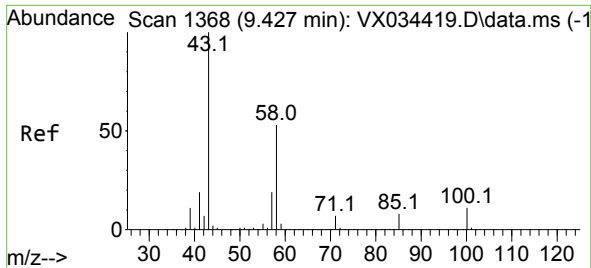
Tgt Ion: 75 Resp: 78470
Ion Ratio Lower Upper
75 100
77 0.4 25.0 37.4#
39 33.6 44.6 66.8#



#57
1,3-Dichloropropane
Concen: 1.720 ug/l
RT: 9.482 min Scan# 1377
Delta R.T. 0.177 min
Lab File: VX034563.D
Acq: 17 Mar 2023 04:51

Tgt Ion: 76 Resp: 9224
Ion Ratio Lower Upper
76 100
78 0.2 25.8 38.8#

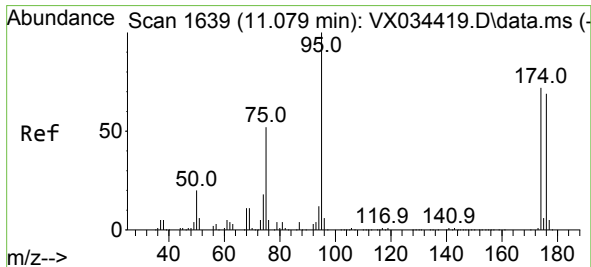
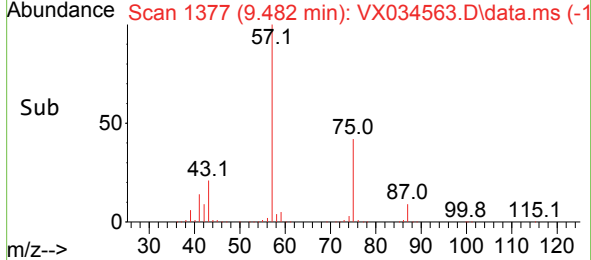
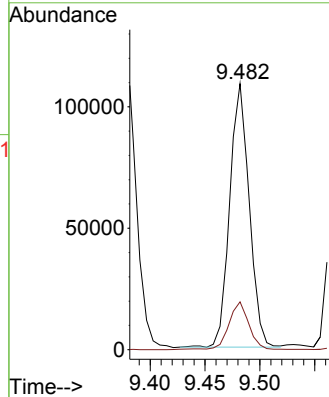
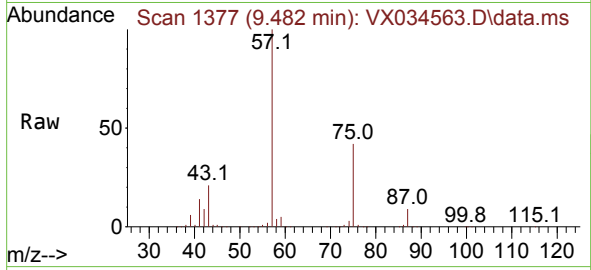




#59
2-Hexanone
Concen: 38.494 ug/l
RT: 9.482 min Scan# 1377
Delta R.T. 0.055 min
Lab File: VX034563.D
Acq: 17 Mar 2023 04:51

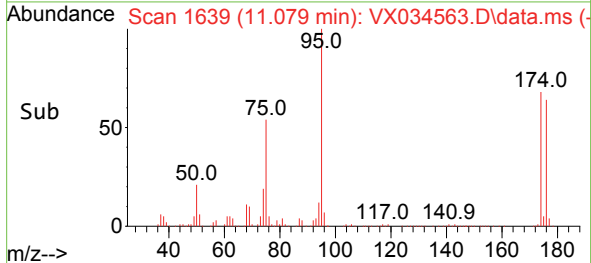
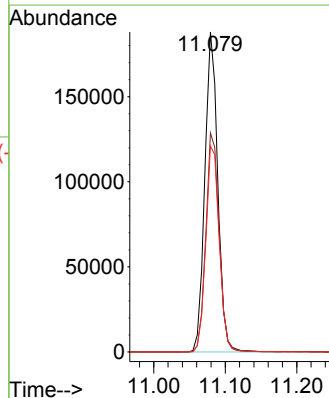
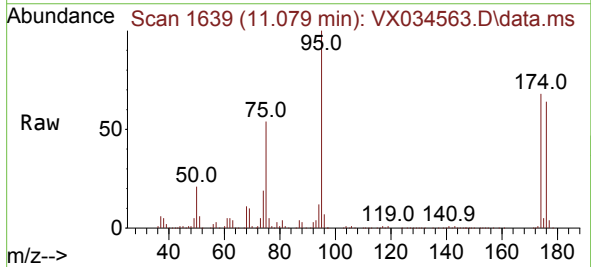
Instrument :
MSVOA_X
ClientSampleId :
HILLBOR-DRUMS-0314

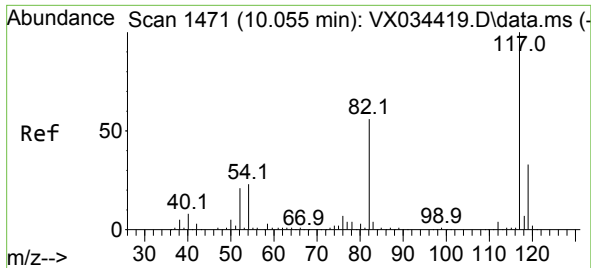
Tgt Ion: 43 Resp: 134106
Ion Ratio Lower Upper
43 100
58 19.0 26.3 78.9#



#62
4-Bromofluorobenzene
Concen: 57.477 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX034563.D
Acq: 17 Mar 2023 04:51

Tgt Ion: 95 Resp: 236865
Ion Ratio Lower Upper
95 100
174 70.4 0.0 147.4
176 67.0 0.0 140.6

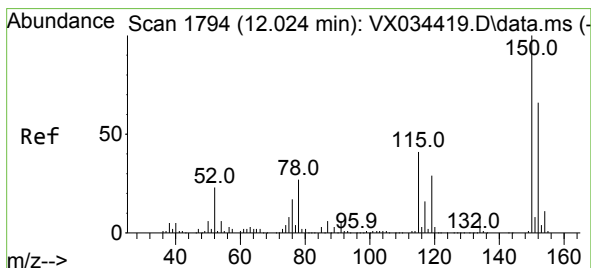
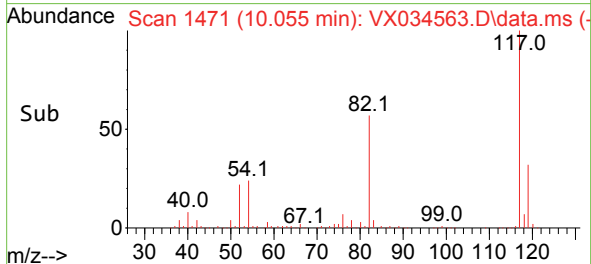
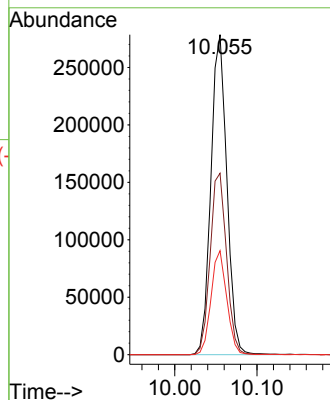
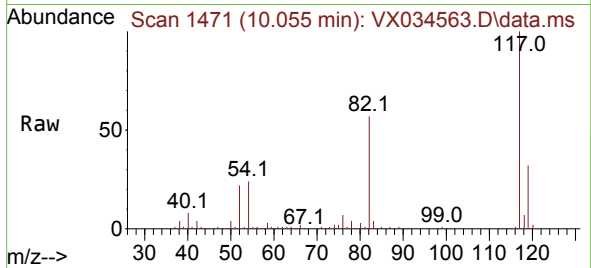




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX034563.D
Acq: 17 Mar 2023 04:51

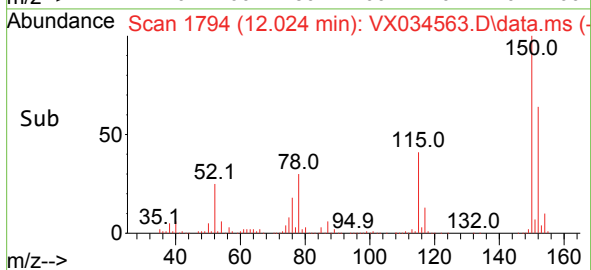
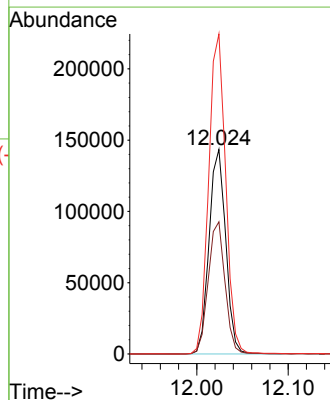
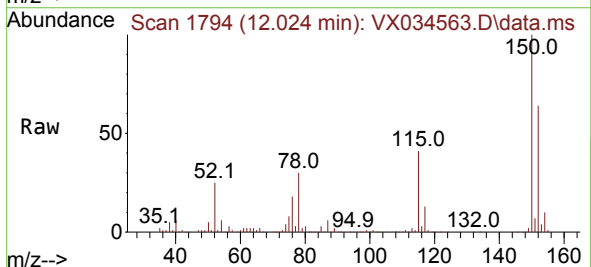
Instrument :
MSVOA_X
ClientSampleId :
HILLBOR-DRUMS-0314

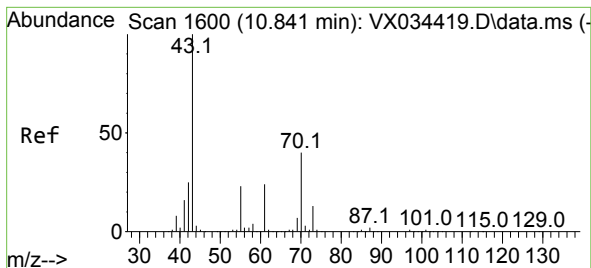
Tgt Ion:117 Resp: 375989
Ion Ratio Lower Upper
117 100
82 56.7 45.0 67.4
119 32.5 26.0 39.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX034563.D
Acq: 17 Mar 2023 04:51

Tgt Ion:152 Resp: 181375
Ion Ratio Lower Upper
152 100
115 65.2 45.0 135.0
150 159.3 0.0 352.4





#74

N-amy1 acetate

Concen: 8.327 ug/l

RT: 10.640 min Scan# 1

Delta R.T. -0.201 min

Lab File: VX034563.D

Acq: 17 Mar 2023 04:51

Instrument :

MSVOA_X

ClientSampleId :

HILLBOR-DRUMS-0314

Tgt Ion: 43 Resp: 55912

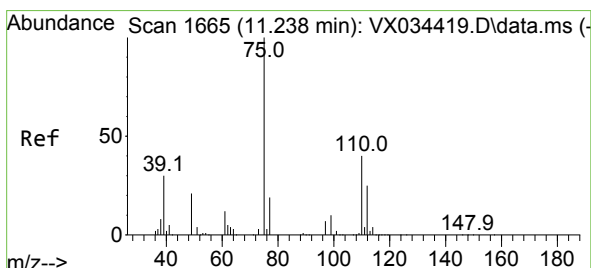
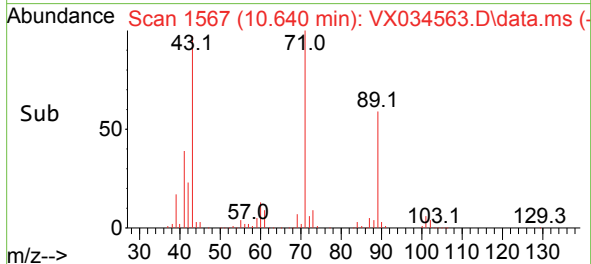
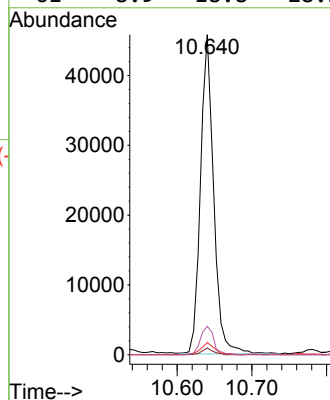
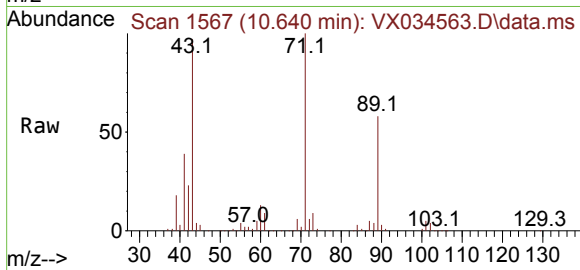
Ion Ratio Lower Upper

43 100

70 1.8 32.1 48.1#

55 4.0 18.3 27.5#

61 8.9 18.8 28.2#



#76

1,2,3-Trichloropropane

Concen: 30.902 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX034563.D

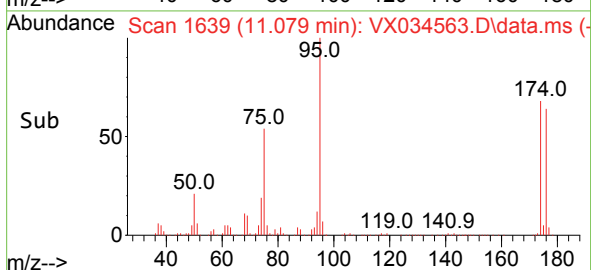
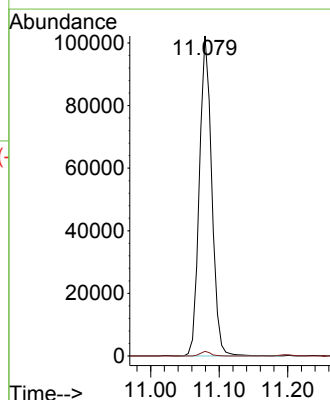
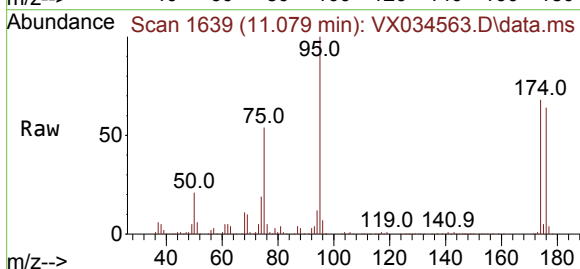
Acq: 17 Mar 2023 04:51

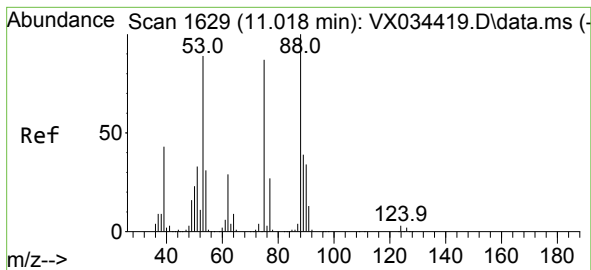
Tgt Ion: 75 Resp: 128692

Ion Ratio Lower Upper

75 100

77 1.2 21.6 64.8#

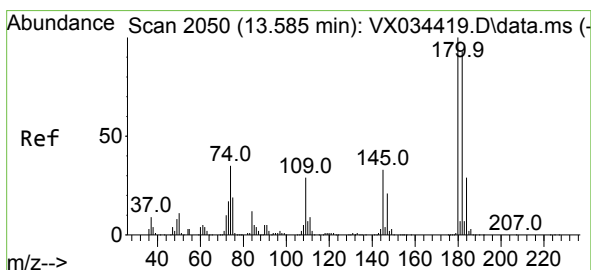
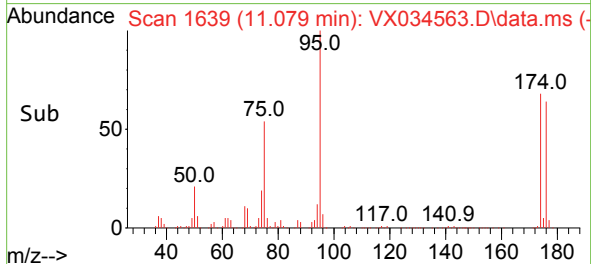
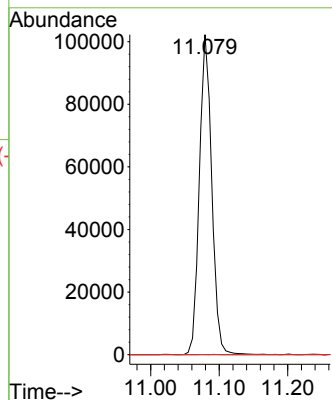
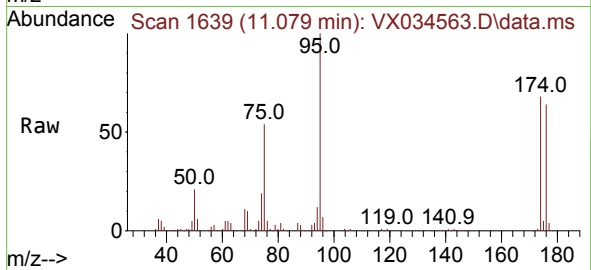




#81
trans-1,4-Dichloro-2-butene
Concen: 83.598 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX034563.D
Acq: 17 Mar 2023 04:51

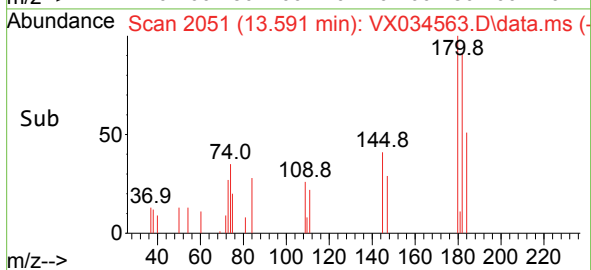
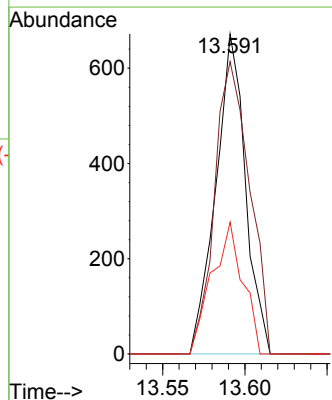
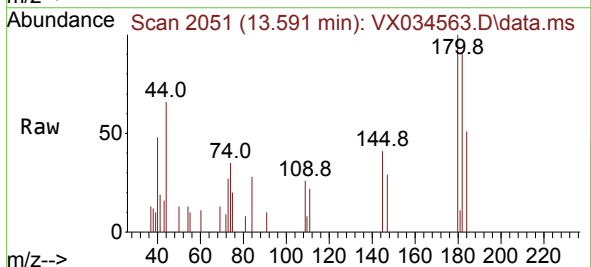
Instrument :
MSVOA_X
ClientSampleId :
HILLBOR-DRUMS-0314

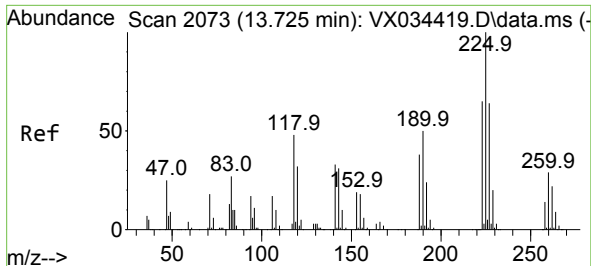
Tgt Ion: 75 Resp: 128692
Ion Ratio Lower Upper
75 100
53 0.0 82.6 124.0#
89 0.0 36.9 55.3#



#93
1,2,4-Trichlorobenzene
Concen: 0.211 ug/l
RT: 13.591 min Scan# 2051
Delta R.T. 0.006 min
Lab File: VX034563.D
Acq: 17 Mar 2023 04:51

Tgt Ion:180 Resp: 842
Ion Ratio Lower Upper
180 100
182 107.8 47.0 141.0
145 43.0 15.9 47.7

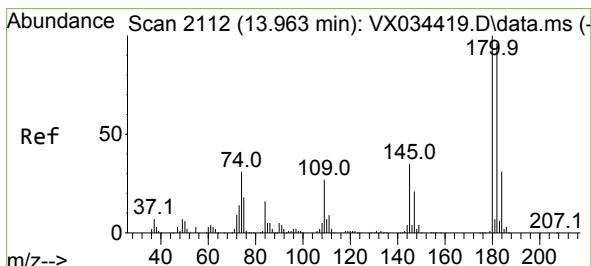
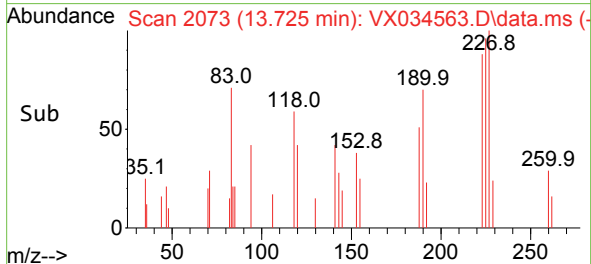
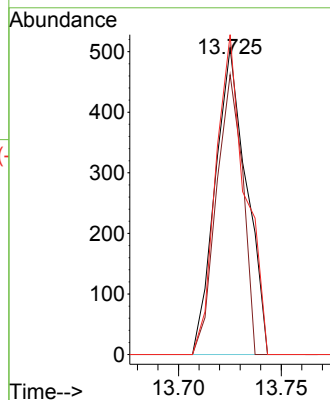
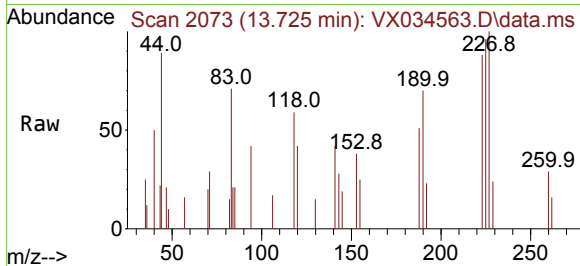




#94
Hexachlorobutadiene
Concen: 0.333 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX034563.D
Acq: 17 Mar 2023 04:51

Instrument :
MSVOA_X
ClientSampleId :
HILLBOR-DRUMS-0314

Tgt Ion:	225	Resp:	535
Ion Ratio	Lower	Upper	
225	100		
223	76.6	32.1	96.5
227	98.3	31.8	95.4#



#96
1,2,3-Trichlorobenzene
Concen: 0.209 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX034563.D
Acq: 17 Mar 2023 04:51

Tgt Ion:	180	Resp:	813
Ion Ratio	Lower	Upper	
180	100		
182	88.8	48.0	144.2
145	33.5	17.7	53.1

