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 Data File : VN079945.D
 Acq On : 07 Nov 2023 04:54
 Operator : JC\MD
 Sample : 05256-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 39 Sample Multiplier: 1

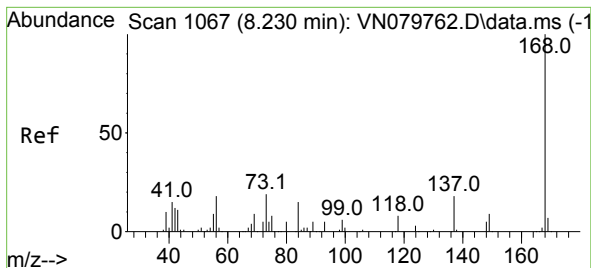
Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 07 06:16:16 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N110123W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 02 05:49:08 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.230	168	259577	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	549543	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	583178	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	217000	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	222742	56.323	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 112.640%			
35) Dibromofluoromethane	8.171	113	187758	48.274	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.540%			
50) Toluene-d8	10.571	98	692466	48.362	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 96.720%			
62) 4-Bromofluorobenzene	12.853	95	232369	48.933	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 97.860%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.354	50	1482	Below Cal	#	42
11) Tert butyl alcohol	5.530	59	1347	2.668	ug/l #	72
13) Acrolein	4.177	56	129	2.848	ug/l #	16
16) Acetone	4.430	43	59652	42.942	ug/l	93
17) Carbon Disulfide	4.712	76	2632	0.327	ug/l #	75
18) Methyl Acetate	5.036	43	5207	0.783	ug/l #	85
20) Methylene Chloride	5.277	84	15656	4.467	ug/l	89
25) 2-Butanone	7.500	43	6786	3.336	ug/l #	75
31) Cyclohexane	8.230	56	6888	1.318	ug/l #	36
36) 1,1-Dichloropropene	8.224	75	23941	4.311	ug/l #	47
37) Ethyl Acetate	7.571	43	6426	1.262	ug/l #	81
38) Carbon Tetrachloride	8.230	117	29458	5.263	ug/l #	15
42) 1,2-Dichloroethane	8.677	62	1760	0.303	ug/l #	73
43) Isopropyl Acetate	8.688	43	235296	26.343	ug/l #	80
45) 1,2-Dichloropropane	9.735	63	2742	0.645	ug/l #	45
48) Methyl methacrylate	9.671	41	7391	1.889	ug/l #	28
49) 1,4-Dioxane	9.741	88	349	5.048	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	21680	4.311	ug/l #	68
54) cis-1,3-Dichloropropene	10.365	75	81815	12.369	ug/l #	73
57) 1,3-Dichloropropane	11.206	76	10179	1.456	ug/l #	43
59) 2-Hexanone	11.177	43	222835	57.926	ug/l #	19
71) Bromoform	12.853	173	1509	0.466	ug/l #	1
74) N-amyl acetate	12.494	43	2002	0.278	ug/l #	46
76) 1,2,3-Trichloropropane	12.853	75	129108	25.343	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	129108	68.951	ug/l #	15
89) n-Butylbenzene	14.053	91	2166	0.212	ug/l	88
93) 1,2,4-Trichlorobenzene	15.400	180	1760	0.523	ug/l	87
94) Hexachlorobutadiene	15.506	225	1104	0.723	ug/l	84
95) Naphthalene	15.641	128	6320	0.554	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.841	180	1828	0.554	ug/l	90

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1

Delta R.T. 0.001 min

Lab File: VN079945.D

Acq: 07 Nov 2023 04:54

Instrument :

MSVOA_N

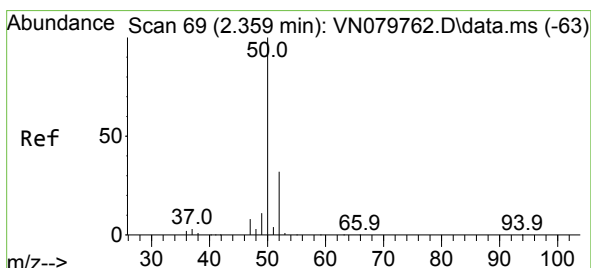
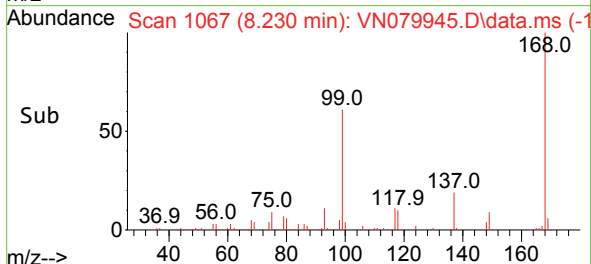
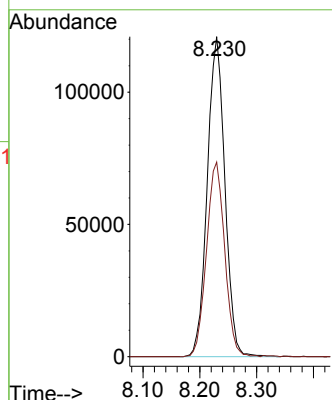
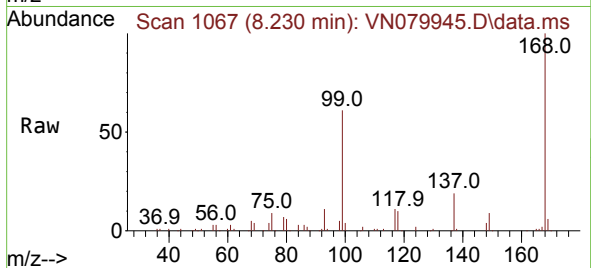
ClientSampleId :

Tgt Ion:168 Resp: 259577

Ion Ratio Lower Upper

168 100

99 60.8 53.0 79.6



#3

Chloromethane

Concen: Below Cal

RT: 2.354 min Scan# 68

Delta R.T. -0.005 min

Lab File: VN079945.D

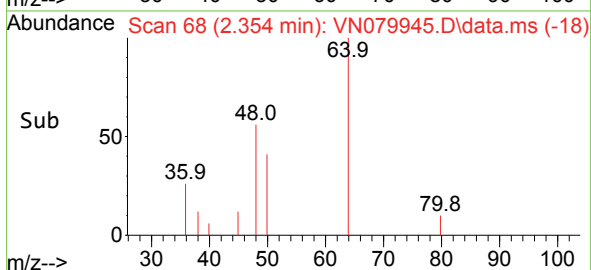
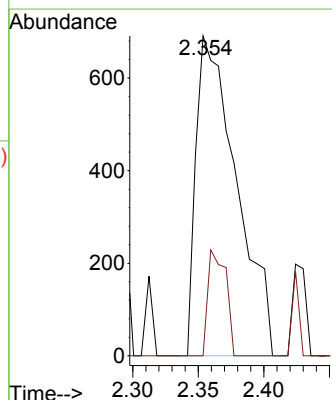
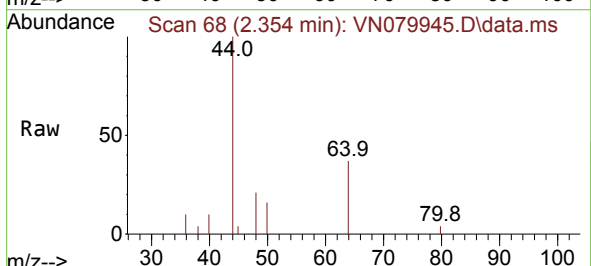
Acq: 07 Nov 2023 04:54

Tgt Ion: 50 Resp: 1482

Ion Ratio Lower Upper

50 100

52 0.0 26.5 39.7#

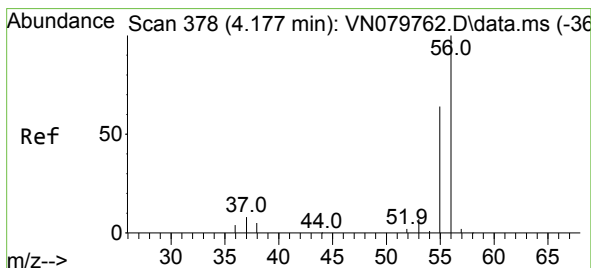
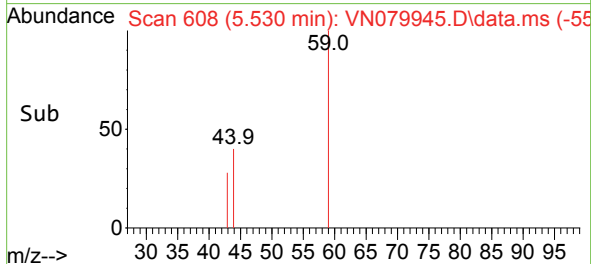
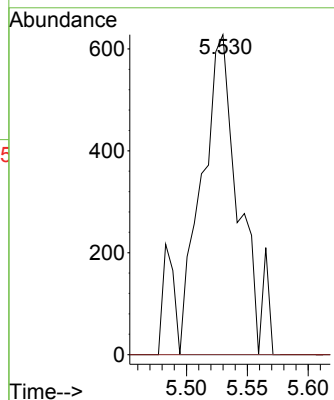
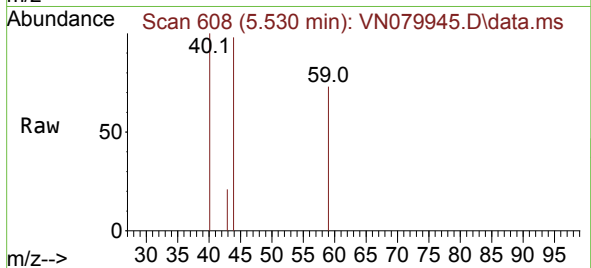




#11
Tert butyl alcohol
Concen: 2.668 ug/l
RT: 5.530 min Scan# 607
Delta R.T. 0.012 min
Lab File: VN079945.D
Acq: 07 Nov 2023 04:54

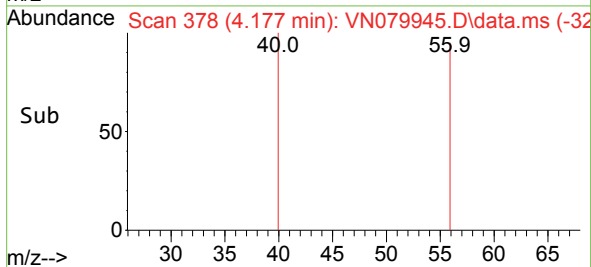
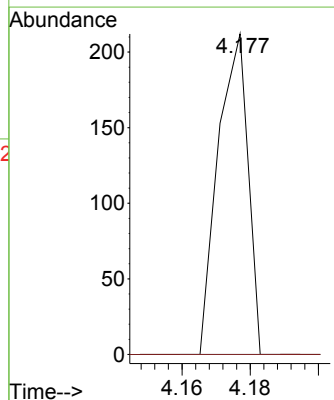
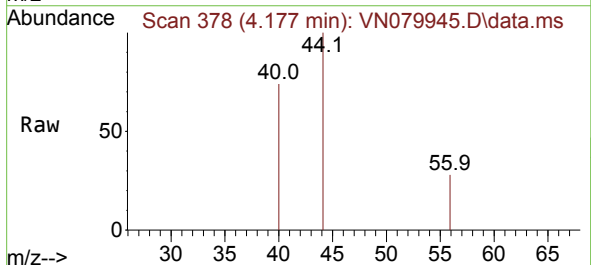
Instrument :
MSVOA_N
ClientSampleId :

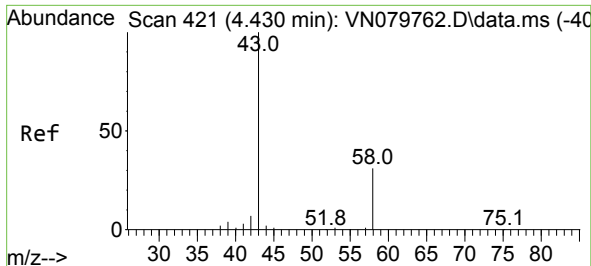
Tgt Ion: 59 Resp: 1347
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: 2.848 ug/l
RT: 4.177 min Scan# 378
Delta R.T. -0.006 min
Lab File: VN079945.D
Acq: 07 Nov 2023 04:54

Tgt Ion: 56 Resp: 129
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#

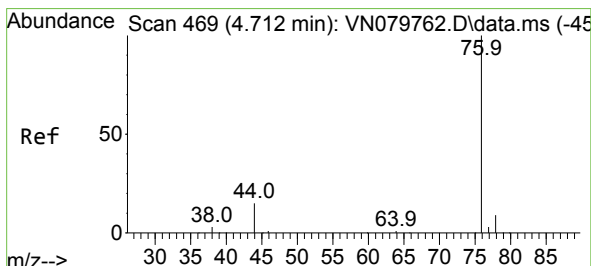
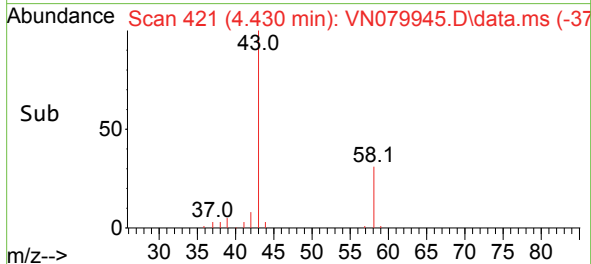
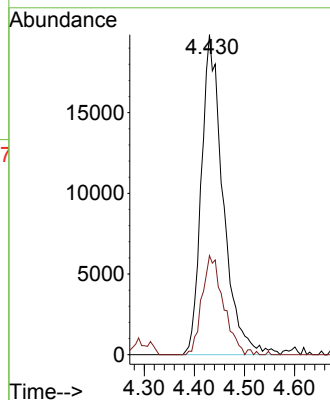
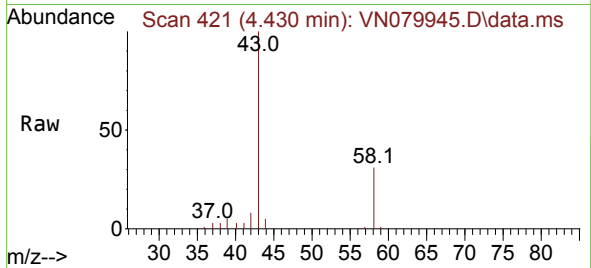




#16
Acetone
Concen: 42.942 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN079945.D
Acq: 07 Nov 2023 04:54

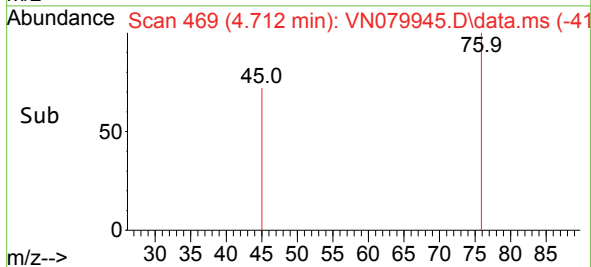
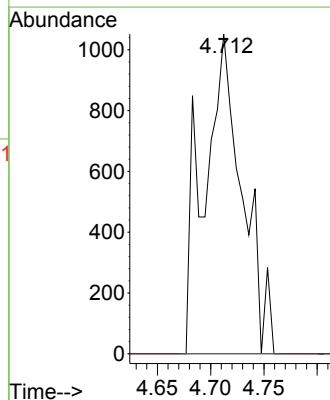
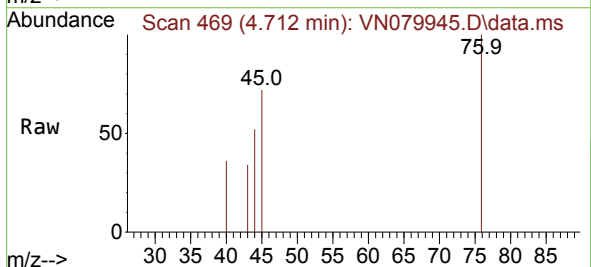
Instrument :
MSVOA_N
ClientSampleId :

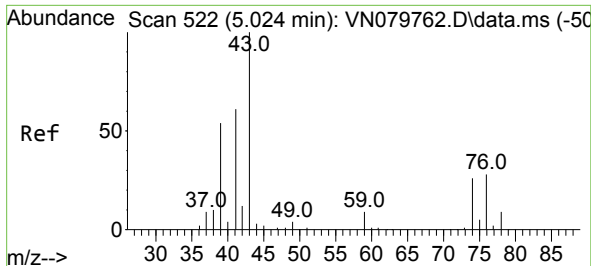
Tgt Ion: 43 Resp: 59652
Ion Ratio Lower Upper
43 100
58 31.0 28.0 42.0



#17
Carbon Disulfide
Concen: 0.327 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.000 min
Lab File: VN079945.D
Acq: 07 Nov 2023 04:54

Tgt Ion: 76 Resp: 2632
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#

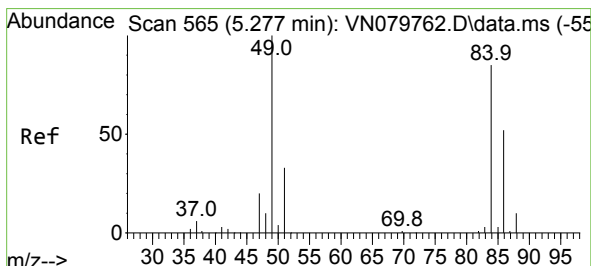
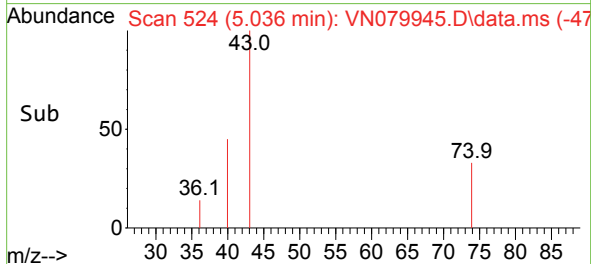
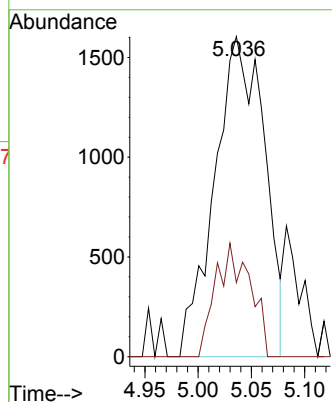
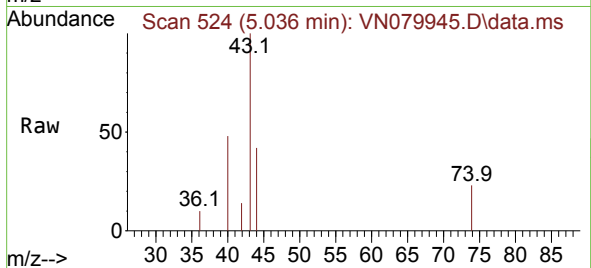




#18
Methyl Acetate
Concen: 0.783 ug/l
RT: 5.036 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN079945.D
Acq: 07 Nov 2023 04:54

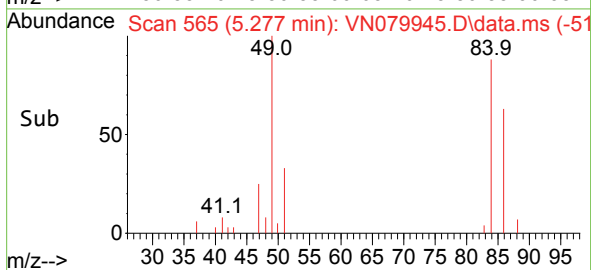
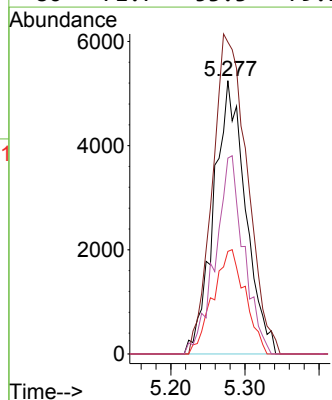
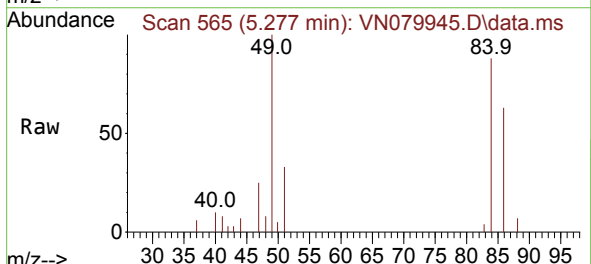
Instrument :
MSVOA_N
ClientSampleId :

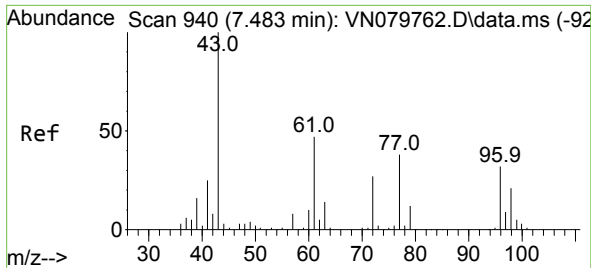
Tgt Ion: 43 Resp: 5207
Ion Ratio Lower Upper
43 100
74 24.5 26.2 39.4#



#20
Methylene Chloride
Concen: 4.467 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN079945.D
Acq: 07 Nov 2023 04:54

Tgt Ion: 84 Resp: 15656
Ion Ratio Lower Upper
84 100
49 114.1 79.7 119.5
51 37.5 25.2 37.8
86 71.7 53.3 79.9

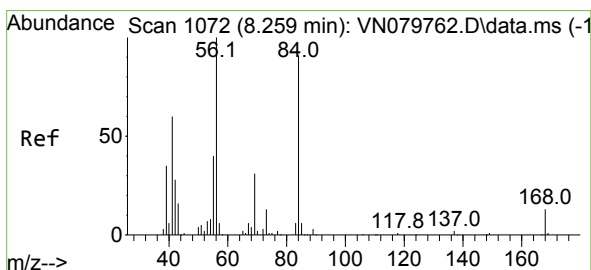
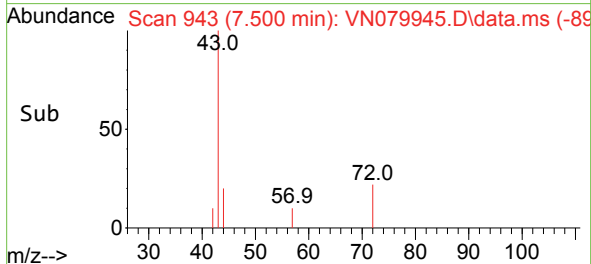
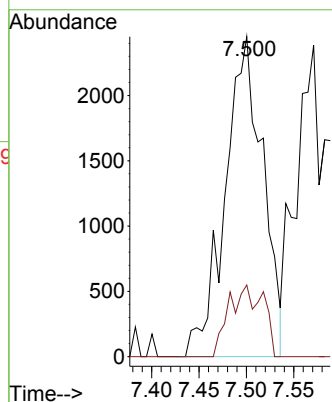
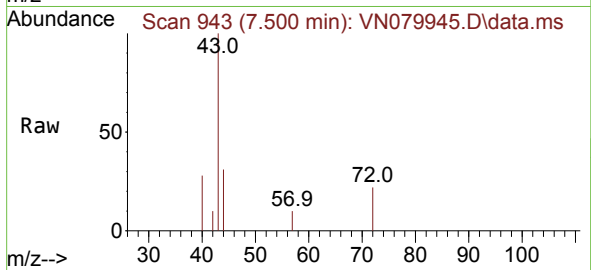




#25
2-Butanone
Concen: 3.336 ug/l
RT: 7.500 min Scan# 940
Delta R.T. 0.012 min
Lab File: VN079945.D
Acq: 07 Nov 2023 04:54

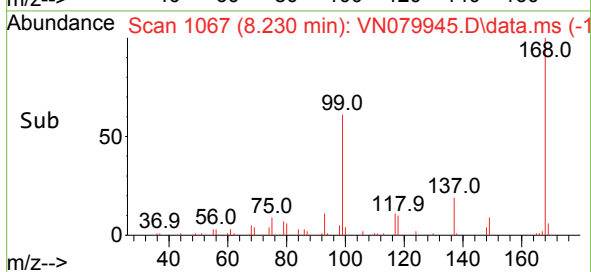
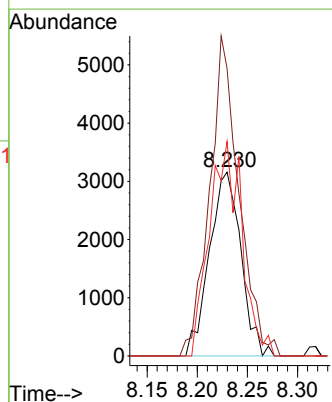
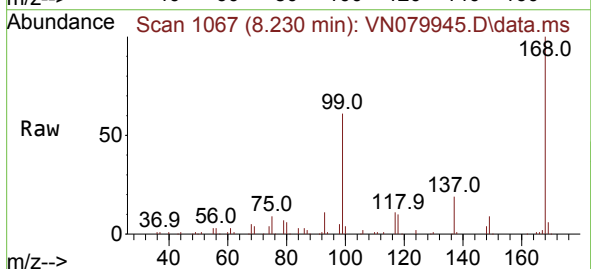
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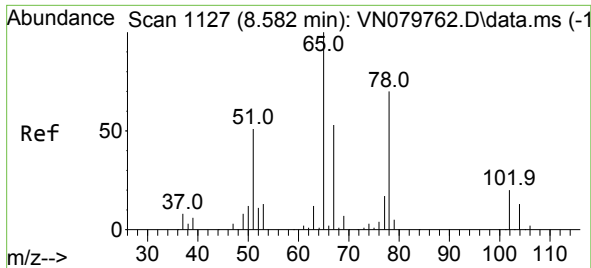
Tgt Ion: 43 Resp: 6786
Ion Ratio Lower Upper
43 100
72 22.4 30.2 45.2#



#31
Cyclohexane
Concen: 1.318 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.029 min
Lab File: VN079945.D
Acq: 07 Nov 2023 04:54

Tgt Ion: 56 Resp: 6888
Ion Ratio Lower Upper
56 100
69 156.3 26.8 40.2#
84 116.6 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 56.323 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN079945.D

Acq: 07 Nov 2023 04:54

Instrument :

MSVOA_N

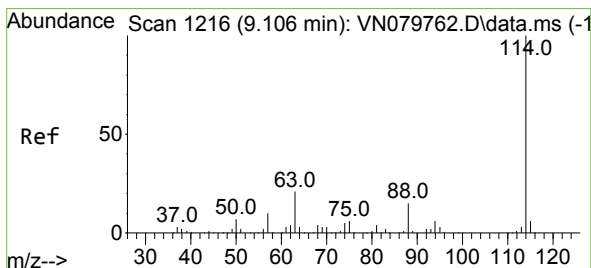
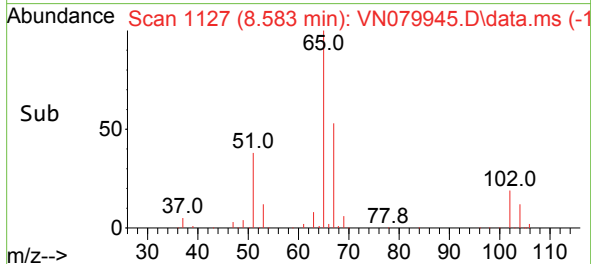
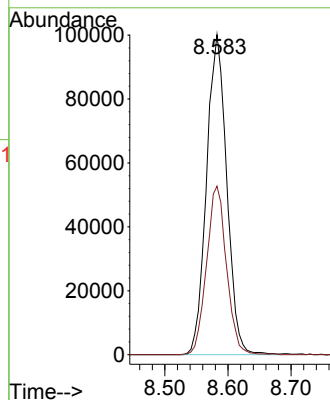
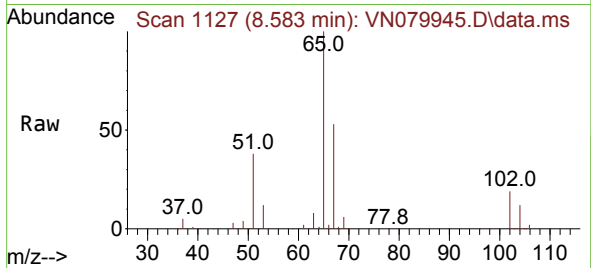
ClientSampleId :

Tgt Ion: 65 Resp: 222742

Ion Ratio Lower Upper

65 100

67 51.9 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: VN079945.D

Acq: 07 Nov 2023 04:54

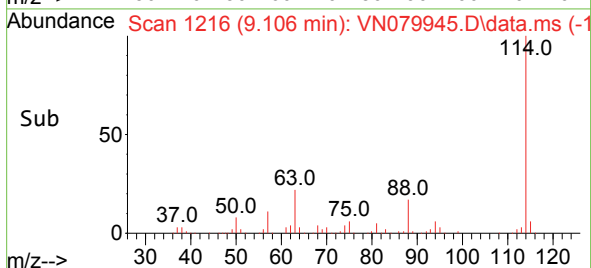
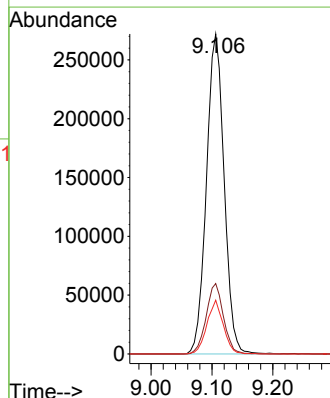
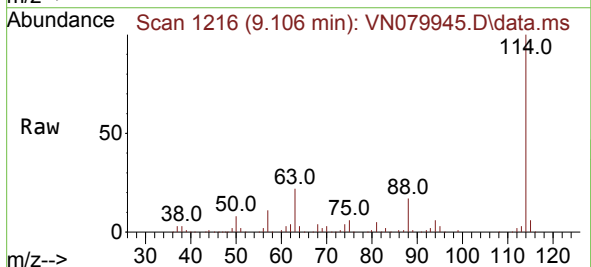
Tgt Ion: 114 Resp: 549543

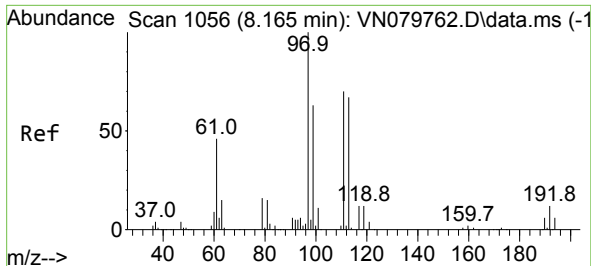
Ion Ratio Lower Upper

114 100

63 22.0 0.0 36.4

88 16.8 0.0 30.6





#35

Dibromofluoromethane

Concen: 48.274 ug/l

RT: 8.171 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN079945.D

Acq: 07 Nov 2023 04:54

Instrument :

MSVOA_N

ClientSampleId :

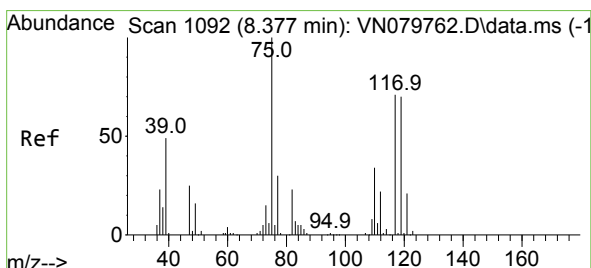
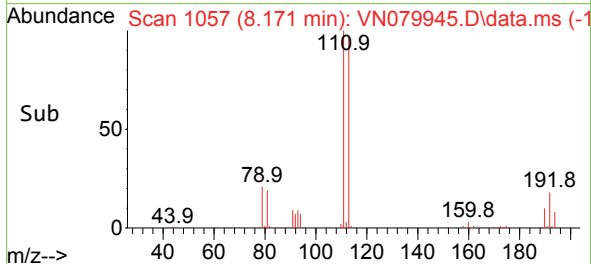
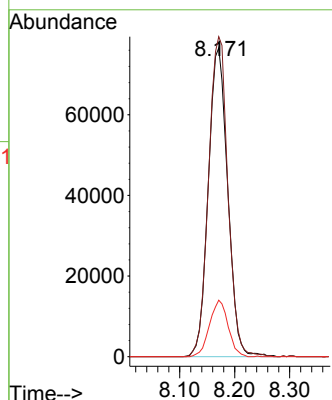
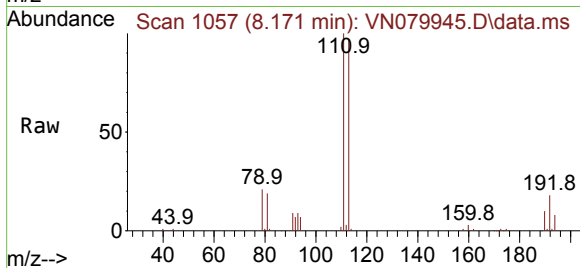
Tgt Ion:113 Resp: 187758

Ion Ratio Lower Upper

113 100

111 103.3 82.6 123.8

192 17.6 12.7 19.1



#36

1,1-Dichloropropene

Concen: 4.311 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.153 min

Lab File: VN079945.D

Acq: 07 Nov 2023 04:54

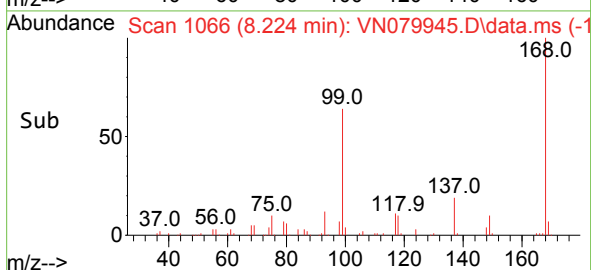
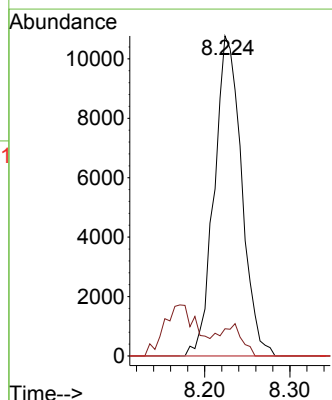
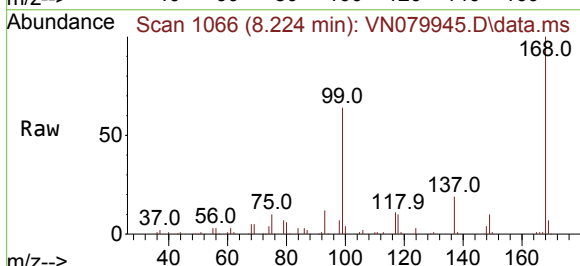
Tgt Ion: 75 Resp: 23941

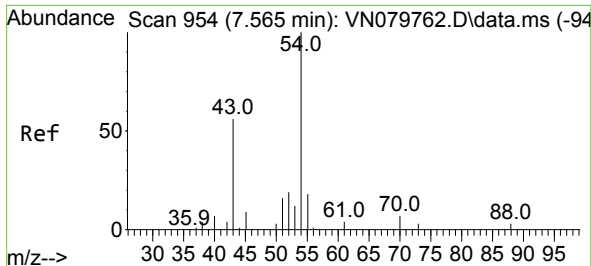
Ion Ratio Lower Upper

75 100

110 8.4 19.1 57.3#

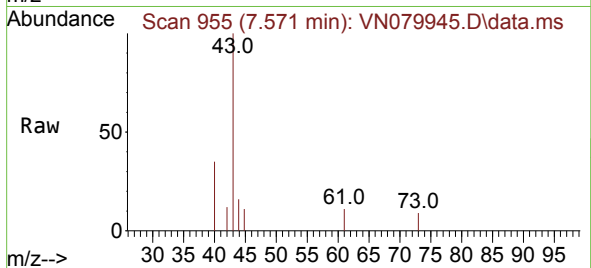
77 0.0 25.0 37.4#



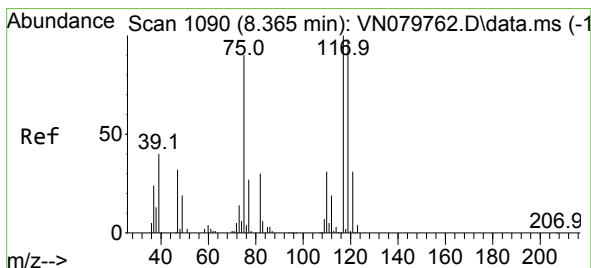
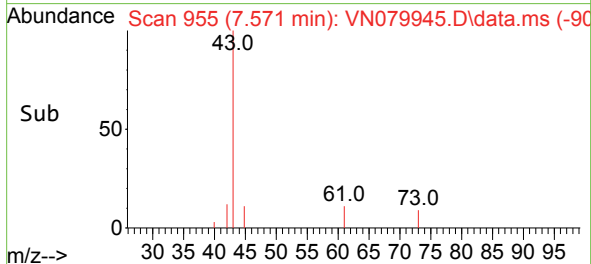
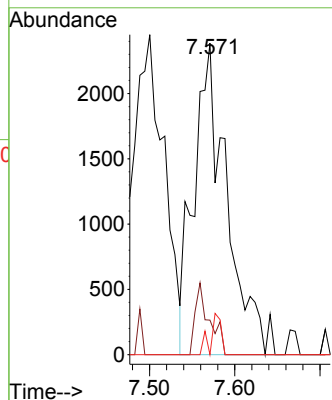


#37
Ethyl Acetate
Concen: 1.262 ug/l
RT: 7.571 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN079945.D
Acq: 07 Nov 2023 04:54

Instrument :
MSVOA_N
ClientSampleId :

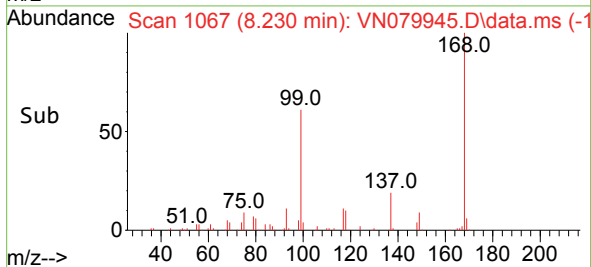
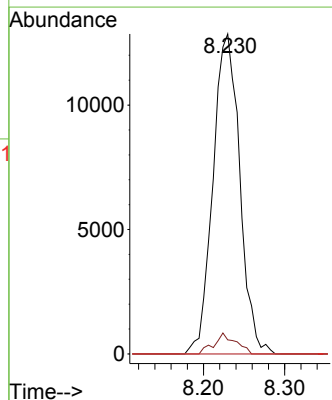
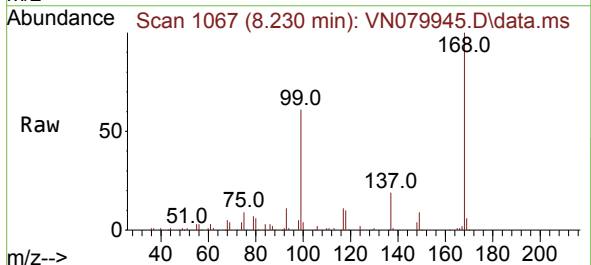


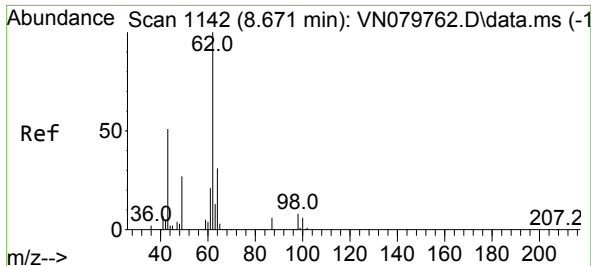
Tgt Ion: 43 Resp: 6426
Ion Ratio Lower Upper
43 100
61 10.0 13.2 19.8#
70 4.2 11.3 16.9#



#38
Carbon Tetrachloride
Concen: 5.263 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.129 min
Lab File: VN079945.D
Acq: 07 Nov 2023 04:54

Tgt Ion: 117 Resp: 29458
Ion Ratio Lower Upper
117 100
119 4.4 77.3 115.9#
121 0.0 23.3 34.9#





#42

1,2-Dichloroethane

Concen: 0.303 ug/l

RT: 8.677 min Scan# 1142

Delta R.T. 0.006 min

Lab File: VN079945.D

Acq: 07 Nov 2023 04:54

Instrument :

MSVOA_N

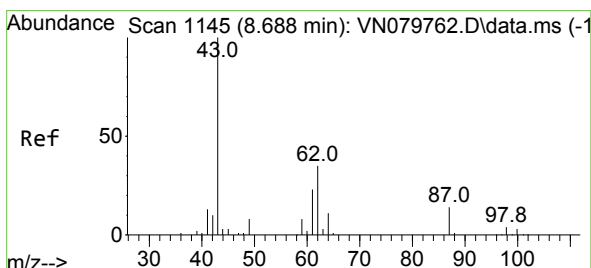
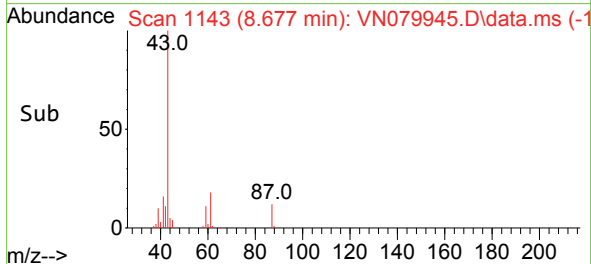
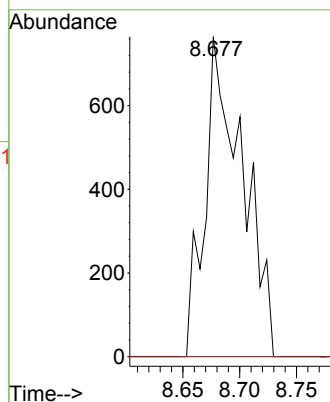
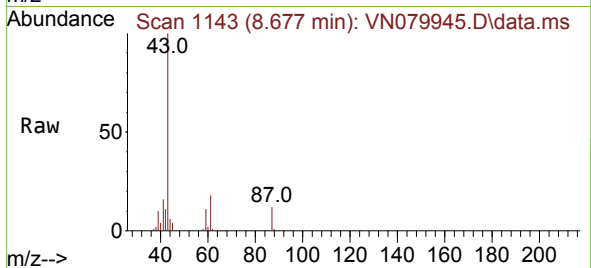
ClientSampleId :

Tgt Ion: 62 Resp: 1760

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 26.343 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN079945.D

Acq: 07 Nov 2023 04:54

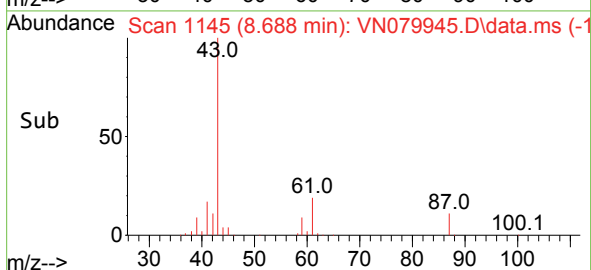
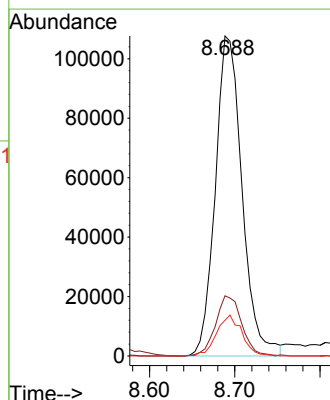
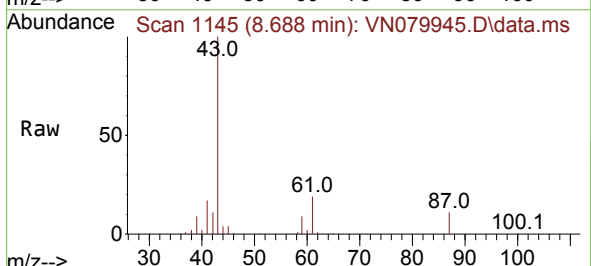
Tgt Ion: 43 Resp: 235296

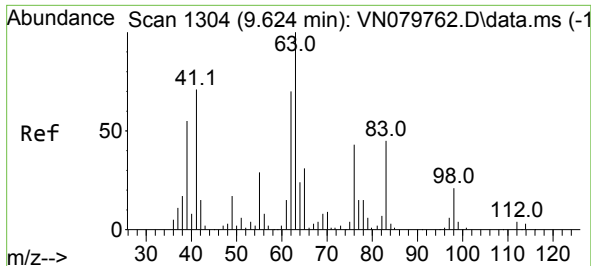
Ion Ratio Lower Upper

43 100

61 18.3 24.7 37.1#

87 12.0 14.6 21.8#





#45

1,2-Dichloropropane

Concen: 0.645 ug/l

RT: 9.735 min Scan# 1312

Delta R.T. 0.112 min

Lab File: VN079945.D

Acq: 07 Nov 2023 04:54

Instrument :

MSVOA_N

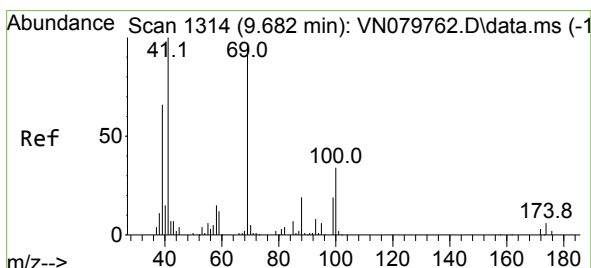
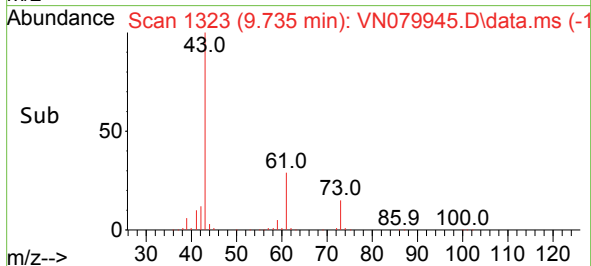
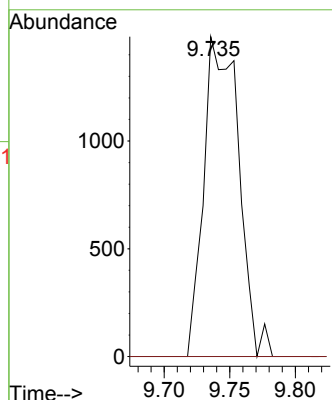
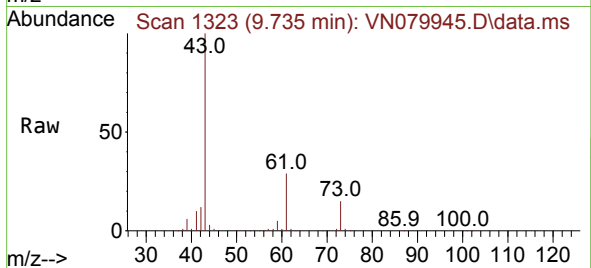
ClientSampleId :

Tgt Ion: 63 Resp: 2742

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#



#48

Methyl methacrylate

Concen: 1.889 ug/l

RT: 9.671 min Scan# 1312

Delta R.T. -0.012 min

Lab File: VN079945.D

Acq: 07 Nov 2023 04:54

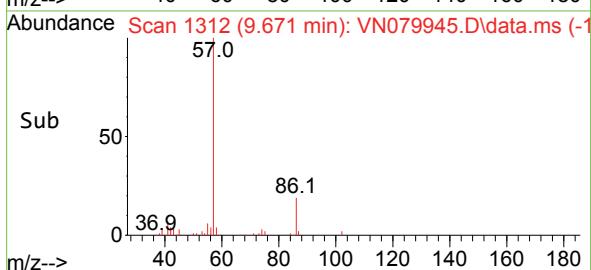
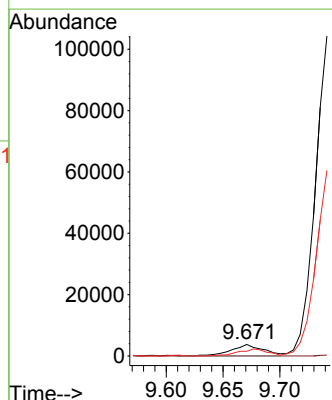
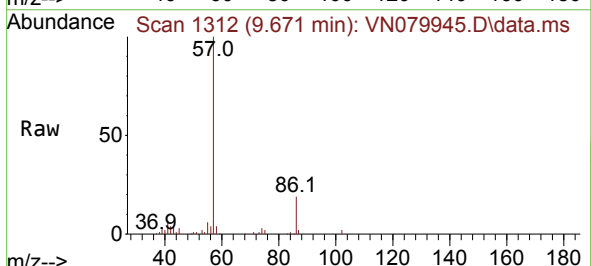
Tgt Ion: 41 Resp: 7391

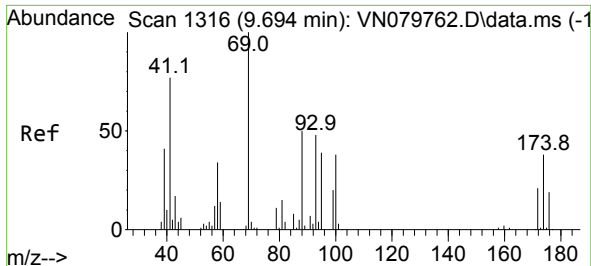
Ion Ratio Lower Upper

41 100

69 0.0 90.4 135.6#

39 54.9 54.6 81.8





#49

1,4-Dioxane

Concen: 5.048 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.047 min

Lab File: VN079945.D

Acq: 07 Nov 2023 04:54

Instrument :

MSVOA_N

ClientSampleId :

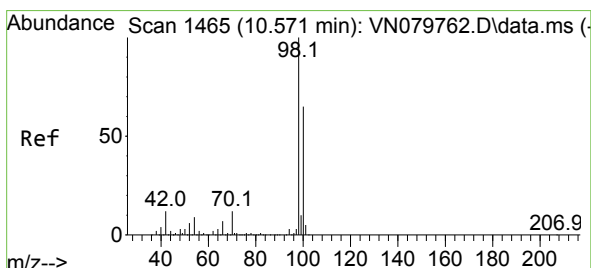
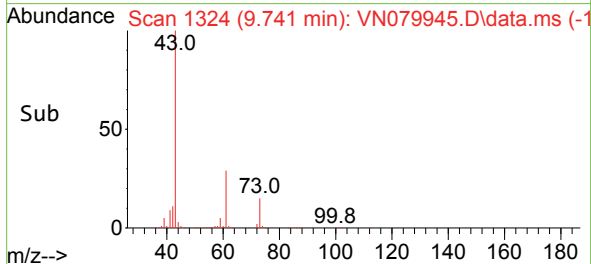
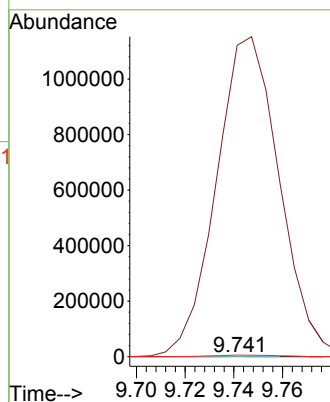
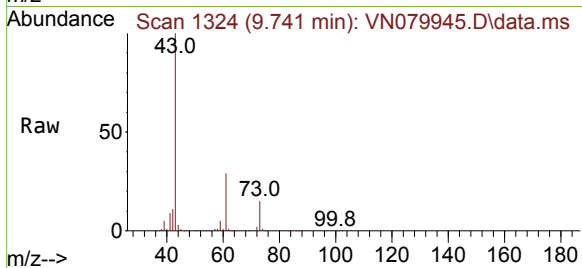
Tgt Ion: 88 Resp: 349

Ion Ratio Lower Upper

88 100

43 599414.0 17.0 25.6#

58 3310.6 47.0 70.4#



#50

Toluene-d8

Concen: 48.362 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN079945.D

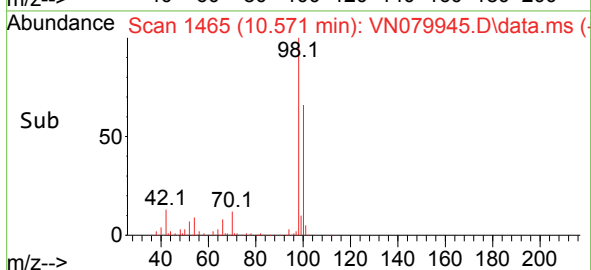
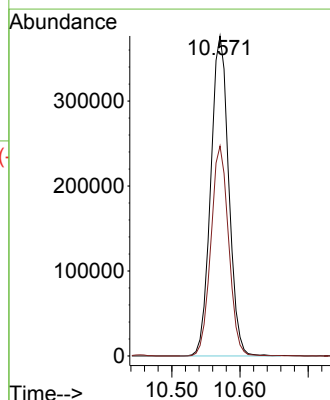
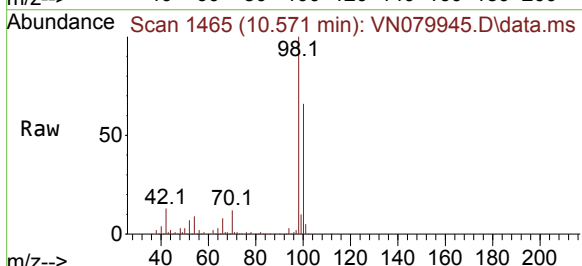
Acq: 07 Nov 2023 04:54

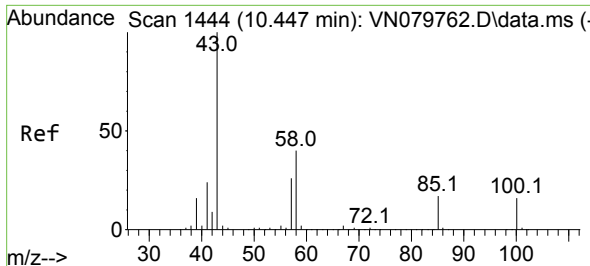
Tgt Ion: 98 Resp: 692466

Ion Ratio Lower Upper

98 100

100 64.5 52.0 78.0

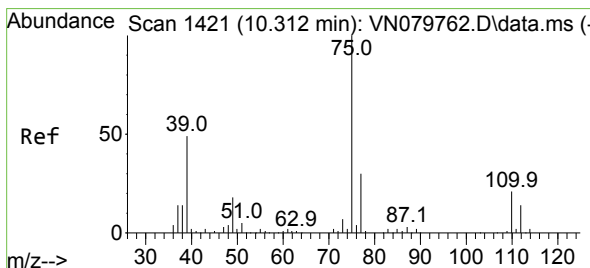
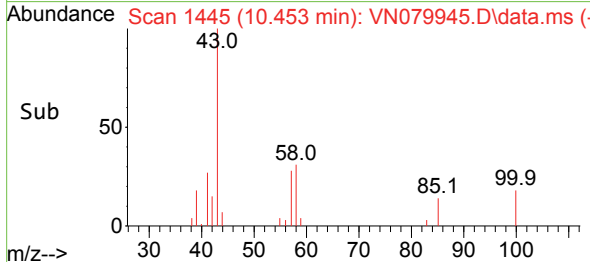
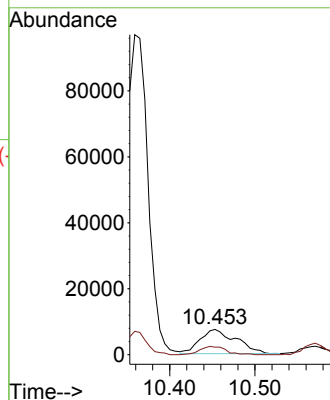
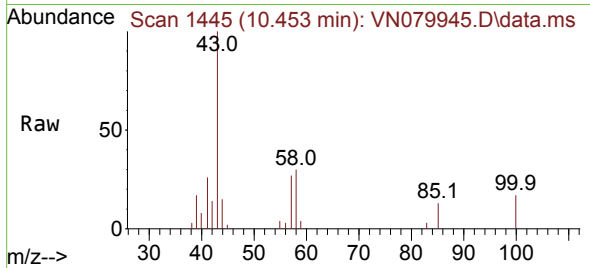




#51
4-Methyl-2-Pentanone
Concen: 4.311 ug/l
RT: 10.453 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN079945.D
Acq: 07 Nov 2023 04:54

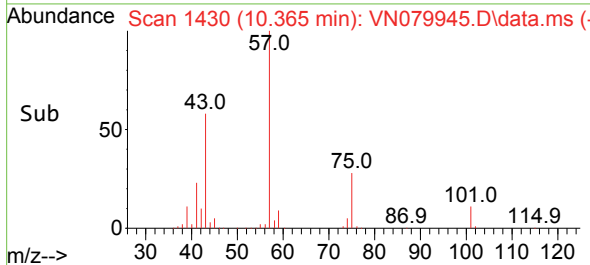
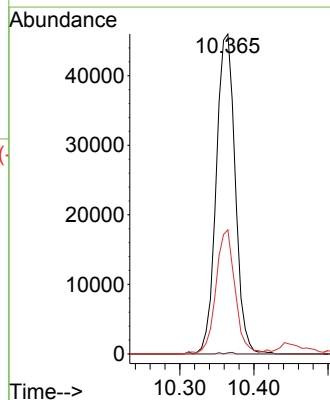
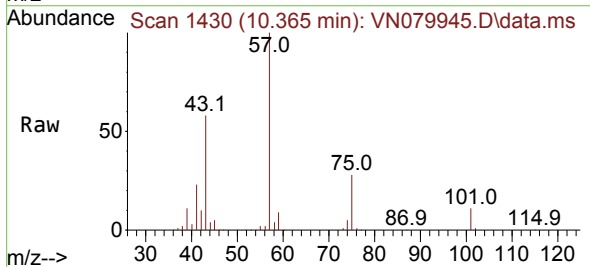
Instrument :
MSVOA_N
ClientSampleId :

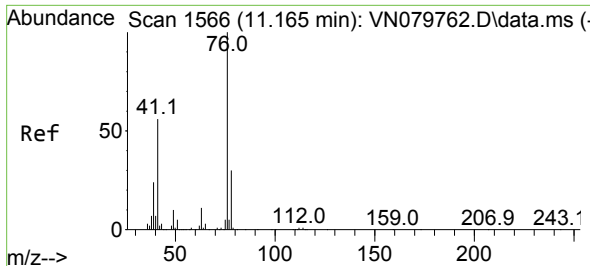
Tgt Ion: 43 Resp: 21680
Ion Ratio Lower Upper
43 100
58 24.6 36.6 54.8#



#54
cis-1,3-Dichloropropene
Concen: 12.369 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. 0.047 min
Lab File: VN079945.D
Acq: 07 Nov 2023 04:54

Tgt Ion: 75 Resp: 81815
Ion Ratio Lower Upper
75 100
77 0.4 26.1 39.1#
39 38.8 31.6 47.4





#57

1,3-Dichloropropane

Concen: 1.456 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.041 min

Lab File: VN079945.D

Acq: 07 Nov 2023 04:54

Instrument :

MSVOA_N

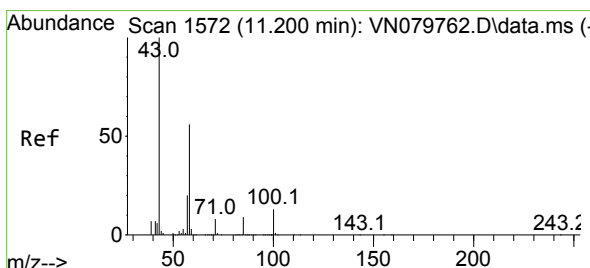
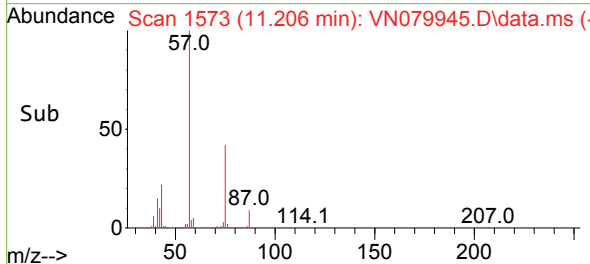
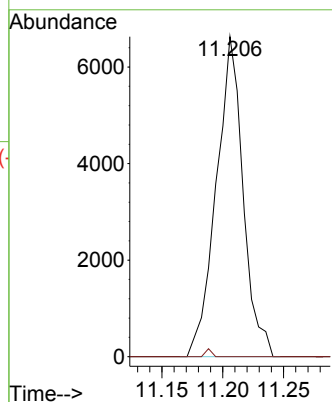
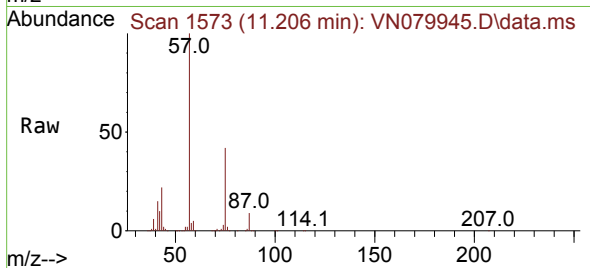
ClientSampleId :

Tgt Ion: 76 Resp: 10179

Ion Ratio Lower Upper

76 100

78 0.6 26.1 39.1#



#59

2-Hexanone

Concen: 57.926 ug/l

RT: 11.177 min Scan# 1568

Delta R.T. -0.023 min

Lab File: VN079945.D

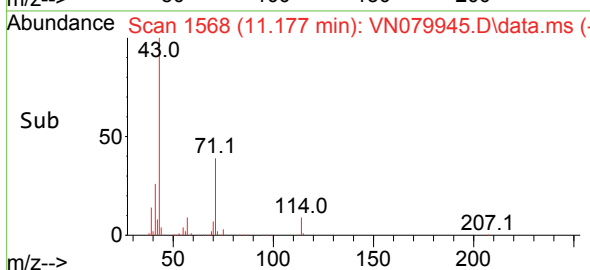
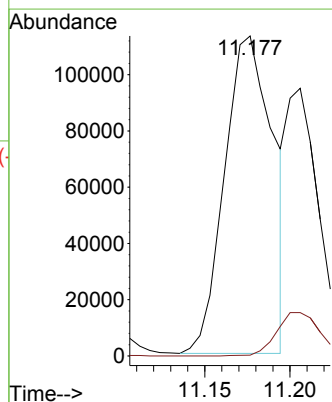
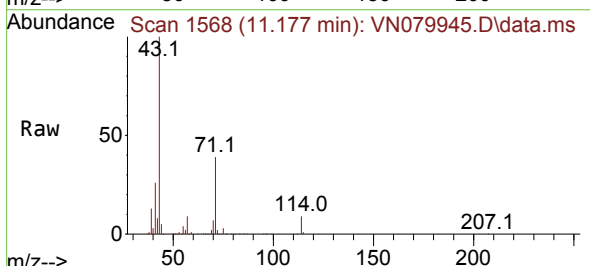
Acq: 07 Nov 2023 04:54

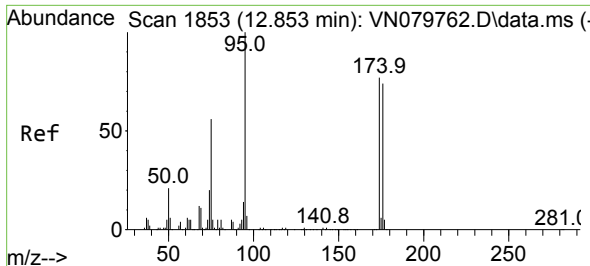
Tgt Ion: 43 Resp: 222835

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

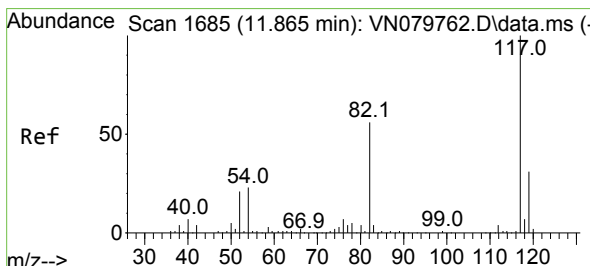
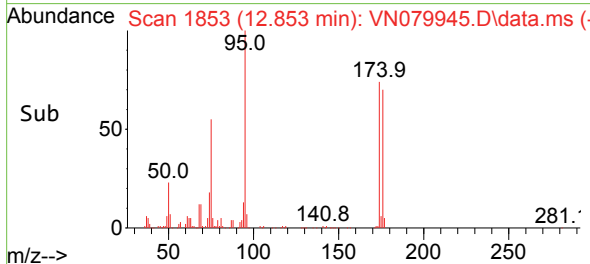
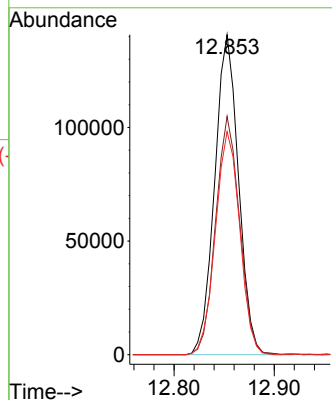
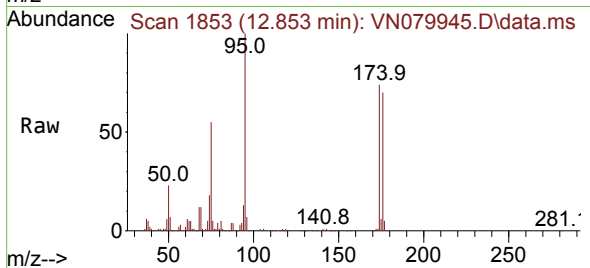




#62
4-Bromofluorobenzene
Concen: 48.933 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN079945.D
Acq: 07 Nov 2023 04:54

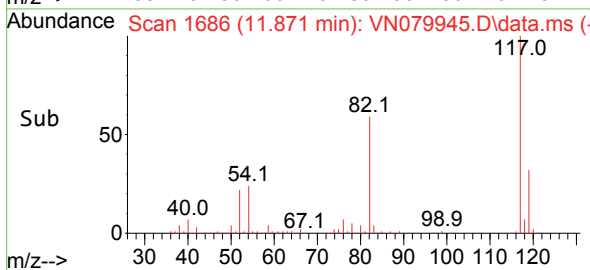
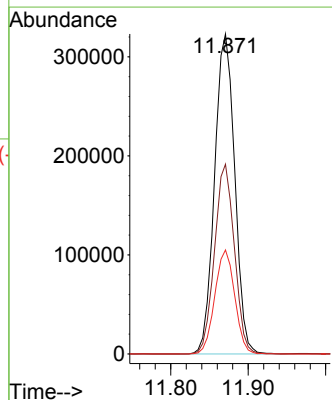
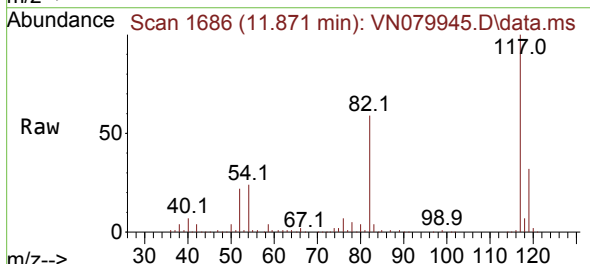
Instrument :
MSVOA_N
ClientSampleId :

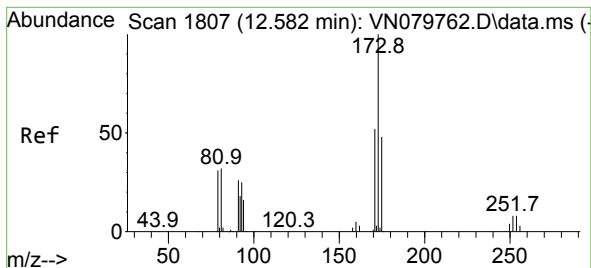
Tgt Ion: 95 Resp: 232369
Ion Ratio Lower Upper
95 100
174 75.2 0.0 143.8
176 71.2 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN079945.D
Acq: 07 Nov 2023 04:54

Tgt Ion: 117 Resp: 583178
Ion Ratio Lower Upper
117 100
82 59.3 44.0 66.0
119 32.5 25.6 38.4





#71

Bromoform

Concen: 0.466 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.271 min

Lab File: VN079945.D

Acq: 07 Nov 2023 04:54

Instrument :

MSVOA_N

ClientSampleId :

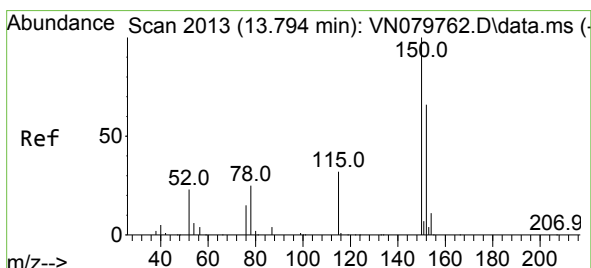
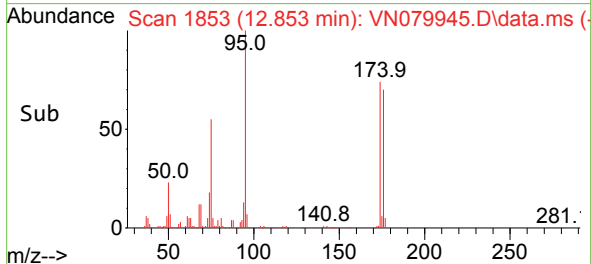
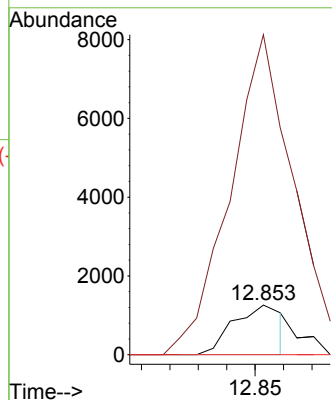
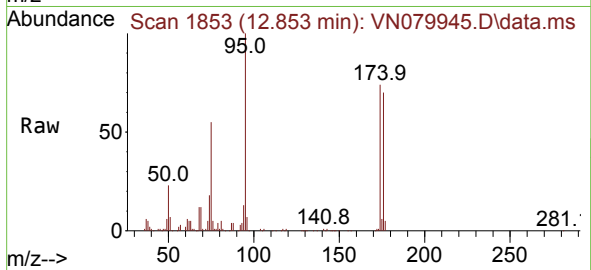
Tgt Ion:173 Resp: 1509

Ion Ratio Lower Upper

173 100

175 662.0 24.3 73.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.000 min

Lab File: VN079945.D

Acq: 07 Nov 2023 04:54

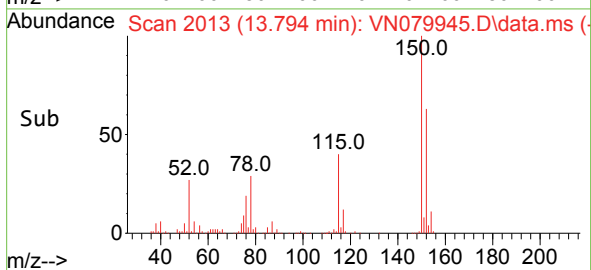
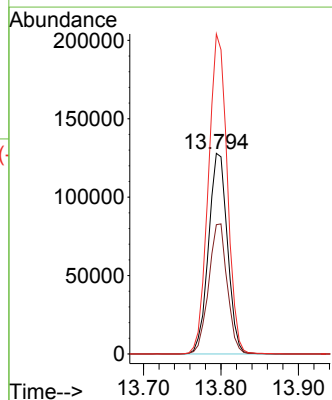
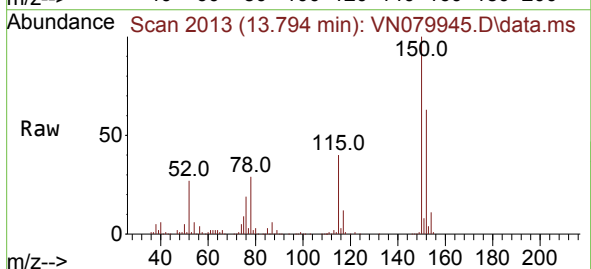
Tgt Ion:152 Resp: 217000

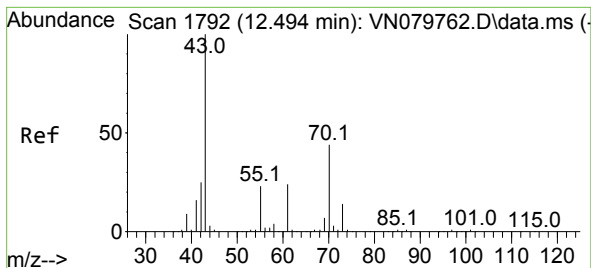
Ion Ratio Lower Upper

152 100

115 63.6 32.3 96.8

150 158.8 0.0 355.8





#74

N-amy1 acetate

Concen: 0.278 ug/l

RT: 12.494 min Scan# 1

Delta R.T. 0.000 min

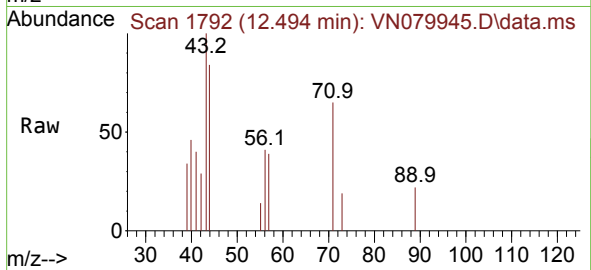
Lab File: VN079945.D

Acq: 07 Nov 2023 04:54

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 43 Resp: 2002

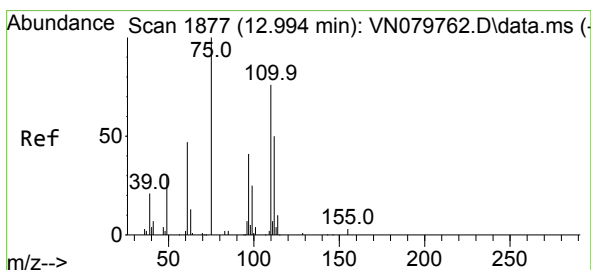
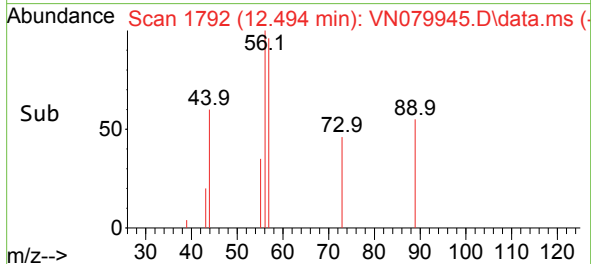
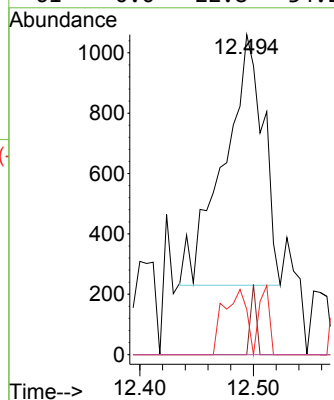
Ion Ratio Lower Upper

43 100

70 4.1 43.4 65.2#

55 15.1 21.4 32.0#

61 0.0 22.8 34.2#



#76

1,2,3-Trichloropropane

Concen: 25.343 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN079945.D

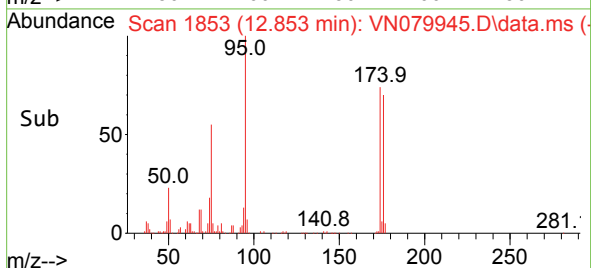
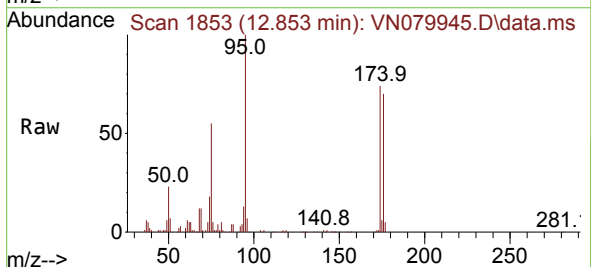
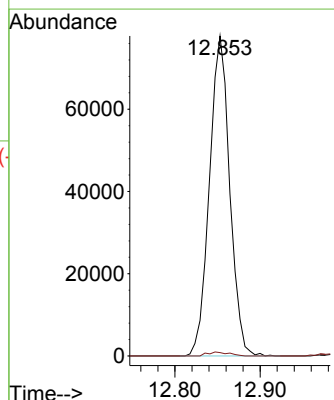
Acq: 07 Nov 2023 04:54

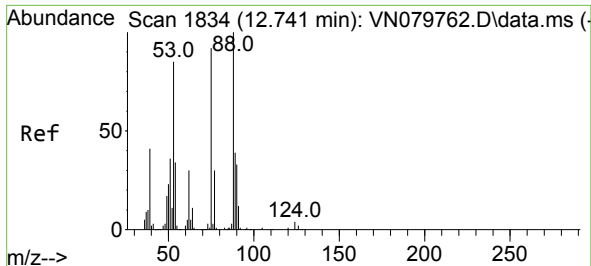
Tgt Ion: 75 Resp: 129108

Ion Ratio Lower Upper

75 100

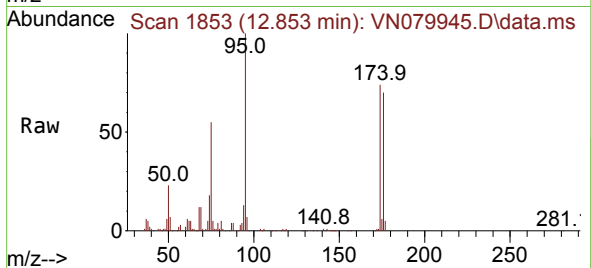
77 1.3 84.5 253.5#



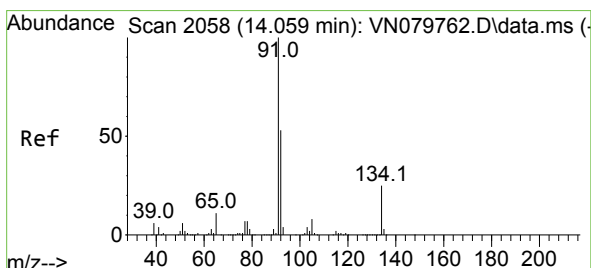
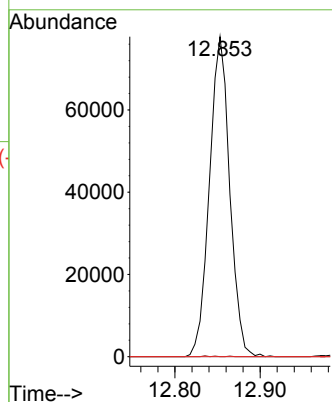
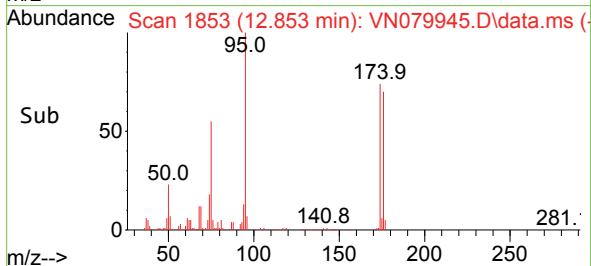


#81
trans-1,4-Dichloro-2-butene
Concen: 68.951 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.118 min
Lab File: VN079945.D
Acq: 07 Nov 2023 04:54

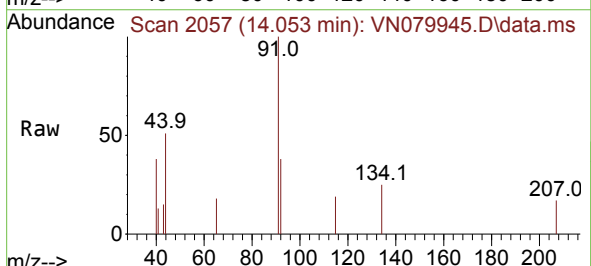
Instrument :
MSVOA_N
ClientSampleId :



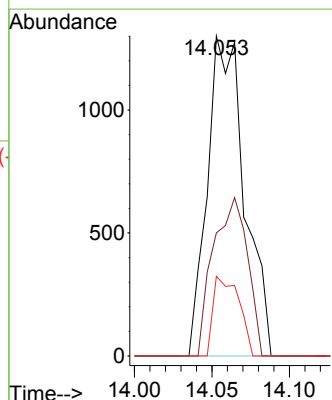
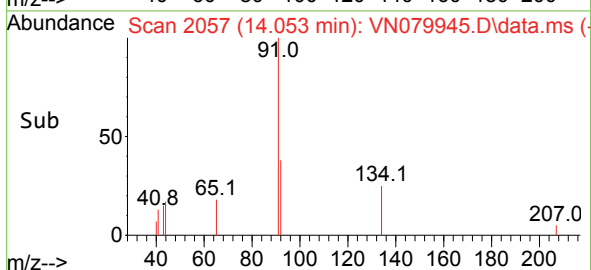
Tgt Ion: 75 Resp: 129108
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#

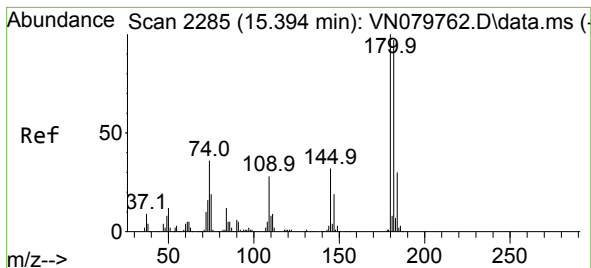


#89
n-Butylbenzene
Concen: 0.212 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.006 min
Lab File: VN079945.D
Acq: 07 Nov 2023 04:54



Tgt Ion: 91 Resp: 2166
Ion Ratio Lower Upper
91 100
92 45.6 26.4 79.0
134 17.3 12.6 37.6





#93

1,2,4-Trichlorobenzene

Concen: 0.523 ug/l

RT: 15.400 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN079945.D

Acq: 07 Nov 2023 04:54

Instrument :

MSVOA_N

ClientSampleId :

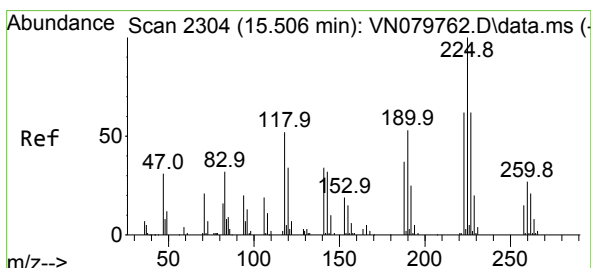
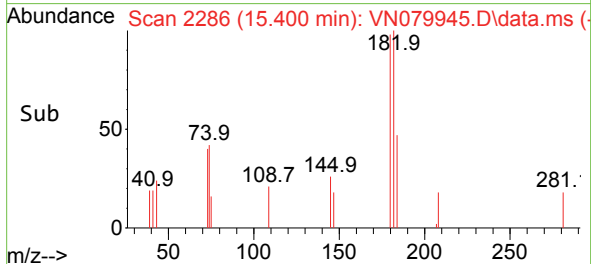
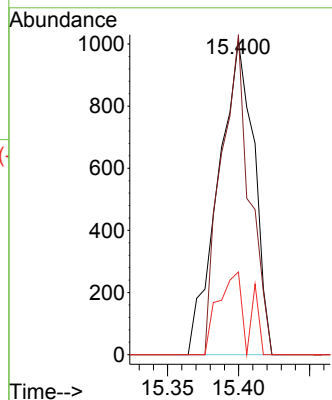
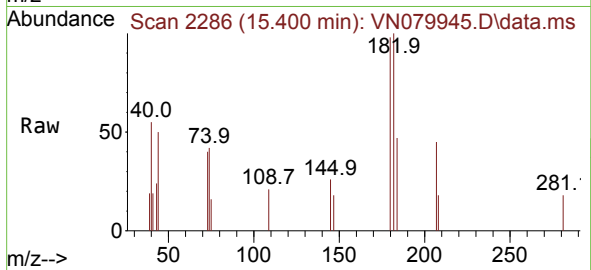
Tgt Ion:180 Resp: 1760

Ion Ratio Lower Upper

180 100

182 81.7 46.1 138.2

145 21.6 16.6 49.8



#94

Hexachlorobutadiene

Concen: 0.723 ug/l

RT: 15.506 min Scan# 2304

Delta R.T. 0.000 min

Lab File: VN079945.D

Acq: 07 Nov 2023 04:54

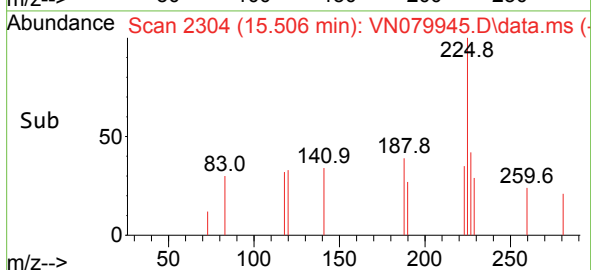
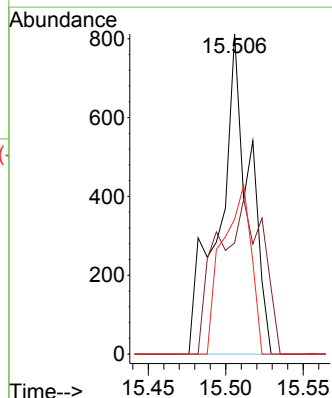
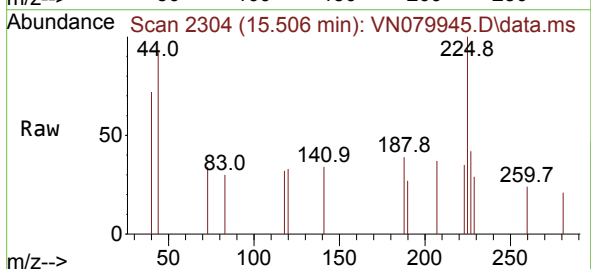
Tgt Ion:225 Resp: 1104

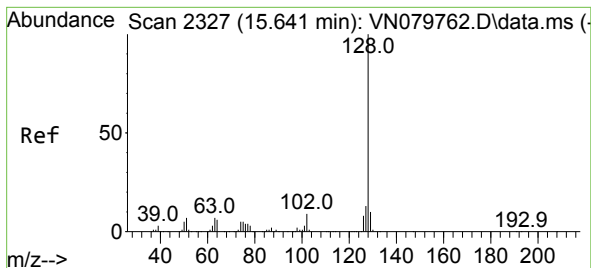
Ion Ratio Lower Upper

225 100

223 72.9 31.3 93.8

227 50.1 31.9 95.9





#95

Naphthalene

Concen: 0.554 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. 0.000 min

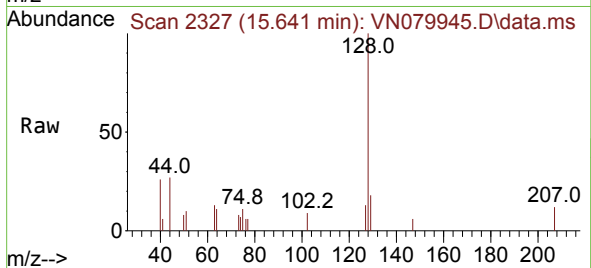
Lab File: VN079945.D

Acq: 07 Nov 2023 04:54

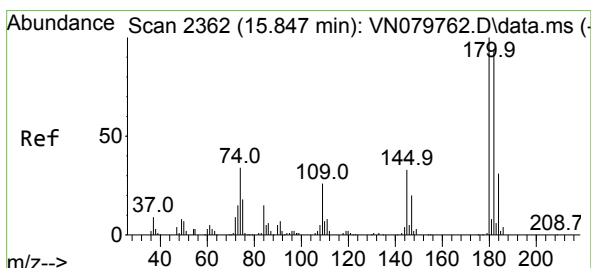
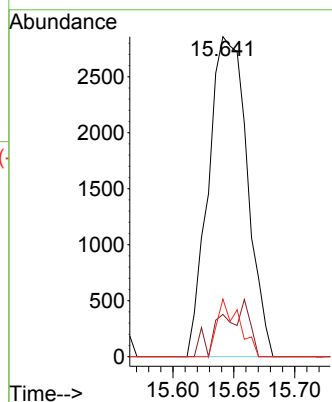
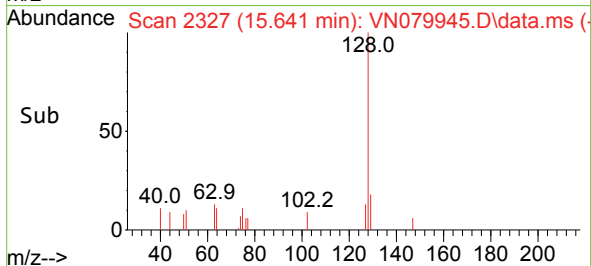
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	128	Resp:	6320
Ion Ratio	Lower	Upper	
128	100		
127	8.6	10.0	15.0#
129	10.3	8.7	13.1



#96

1,2,3-Trichlorobenzene

Concen: 0.554 ug/l

RT: 15.841 min Scan# 2361

Delta R.T. 0.000 min

Lab File: VN079945.D

Acq: 07 Nov 2023 04:54

Tgt Ion:	180	Resp:	1828
Ion Ratio	Lower	Upper	
180	100		
182	95.3	46.2	138.6
145	19.6	17.5	52.6

