

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD122923\
 Data File : VD078108.D
 Acq On : 29 Dec 2023 15:10
 Operator : RP/MD
 Sample : 06039-05
 Misc : 5.51G/5.0ml/MSVOA_D/SOIL/A
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 EC48-BOTTOM

Quant Time: Dec 29 22:35:55 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D122623S.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 27 03:40:16 2023
 Response via : Initial Calibration

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

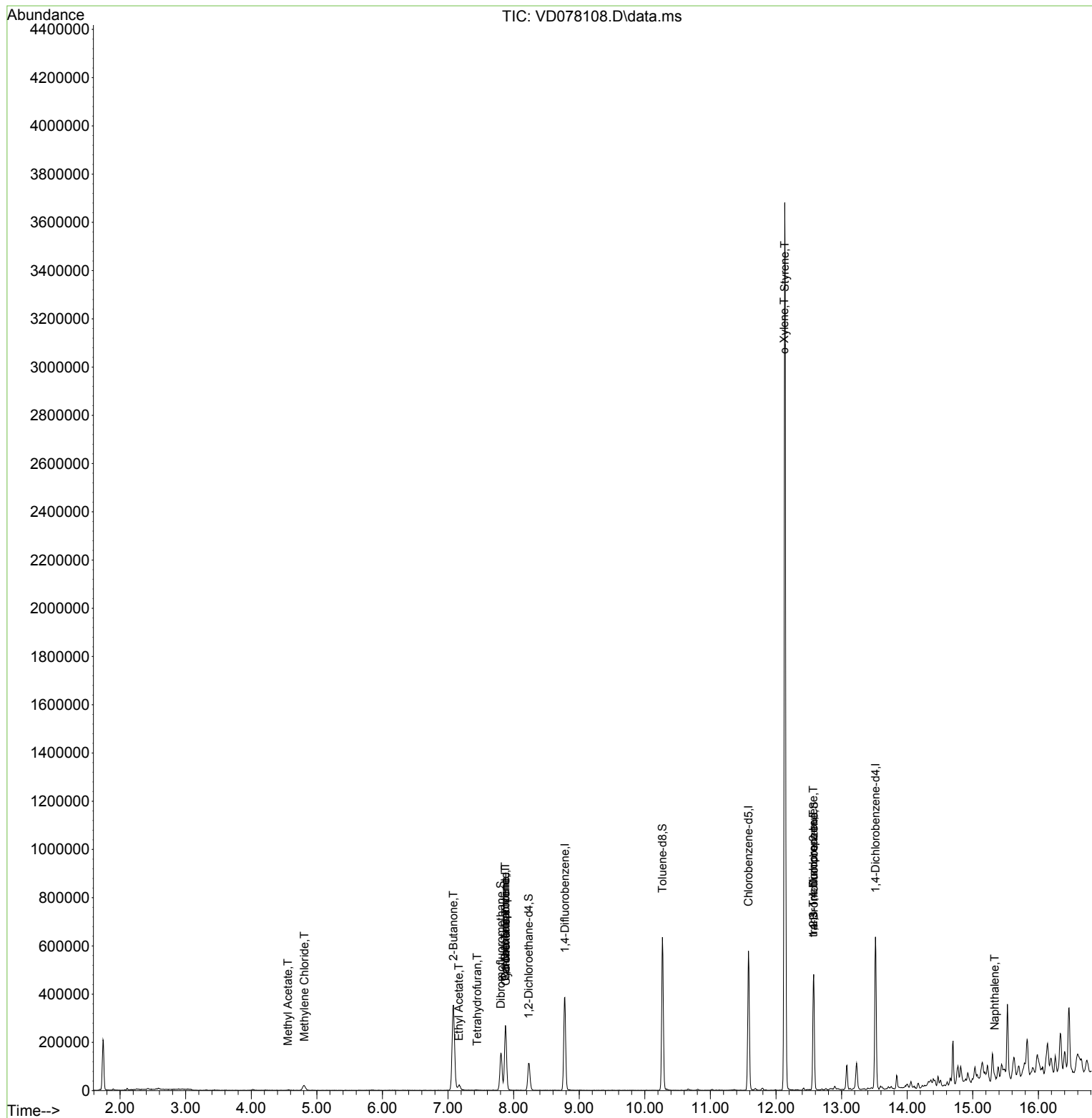
Internal Standards						
1) Pentafluorobenzene	7.875	168	215718	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.781	114	369488	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	348408	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	174016	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	87951	45.822	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	91.640%
35) Dibromofluoromethane	7.805	113	110883	46.640	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	93.280%
50) Toluene-d8	10.269	98	443935	53.068	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	106.140%
62) 4-Bromofluorobenzene	12.575	95	144336	53.624	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	107.240%
Target Compounds						
					Qvalue	
16) Acetone	4.034	43	5516	Below Cal	#	60
18) Methyl Acetate	4.558	43	3041	1.933	ug/l #	55
20) Methylene Chloride	4.811	84	16339	4.020	ug/l	93
25) 2-Butanone	7.081	43	557207	1140.998	ug/l	94
29) Tetrahydrofuran	7.446	42	343	1.154	ug/l #	48
31) Cyclohexane	7.881	56	4468	1.459	ug/l #	44
36) 1,1-Dichloropropene	7.875	75	15448	4.618	ug/l #	50
37) Ethyl Acetate	7.164	43	33147	29.794	ug/l	95
38) Carbon Tetrachloride	7.875	117	19797	5.462	ug/l #	16
69) o-Xylene	12.128	106	8580	1.833	ug/l #	17
70) Styrene	12.134	104	1859850	269.125	ug/l	93
76) 1,2,3-Trichloropropane	12.569	75	72547	49.415	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.569	75	72547	106.478	ug/l #	17
95) Naphthalene	15.334	128	6854	1.190	ug/l #	96

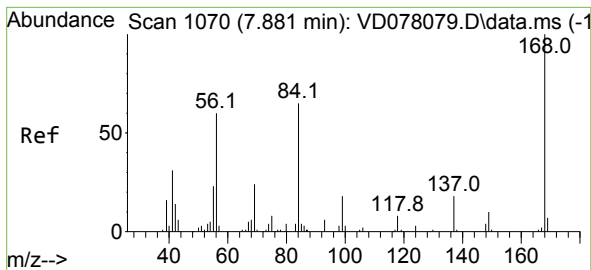
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D122623S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 27 03:40:16 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.006 min

Lab File: VD078108.D

Acq: 29 Dec 2023 15:10

Instrument :

MSVOA_D

ClientSampleId :

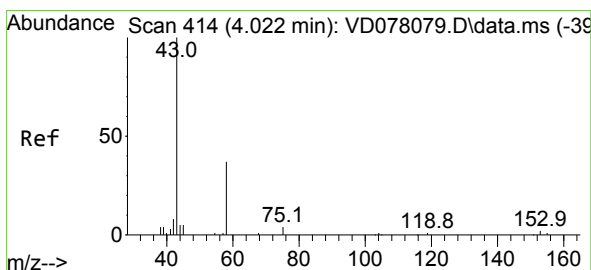
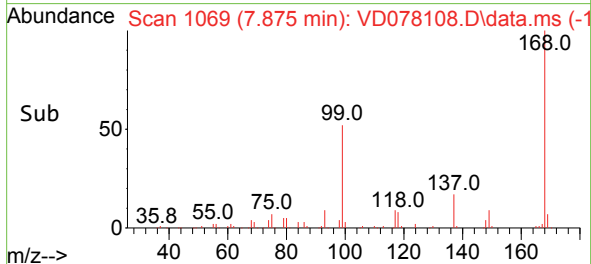
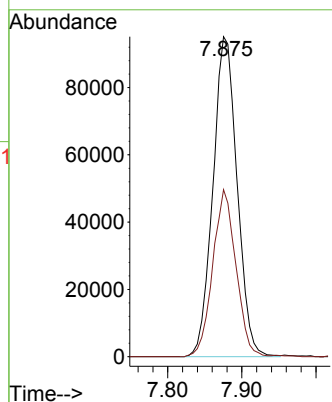
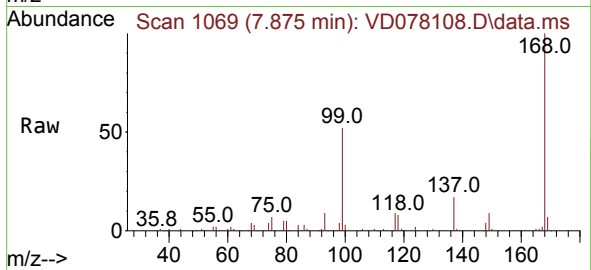
EC48-BOTTOM

Tgt Ion:168 Resp: 215718

Ion Ratio Lower Upper

168 100

99 52.2 36.7 55.1



#16

Acetone

Concen: Below Cal

RT: 4.034 min Scan# 416

Delta R.T. 0.012 min

Lab File: VD078108.D

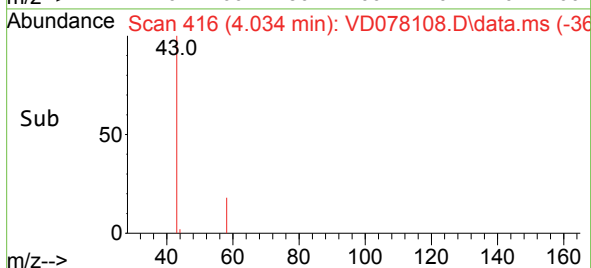
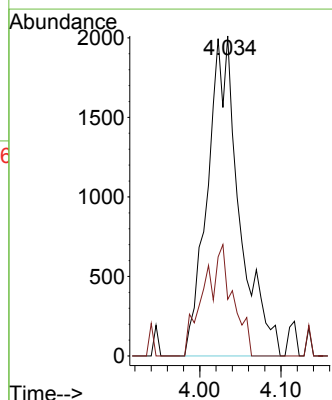
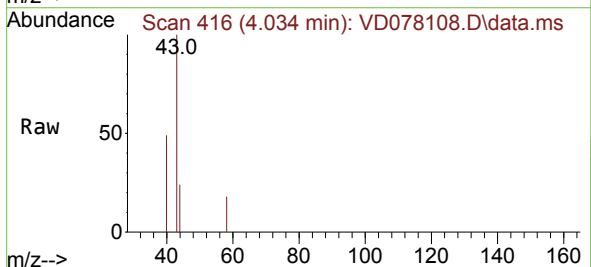
Acq: 29 Dec 2023 15:10

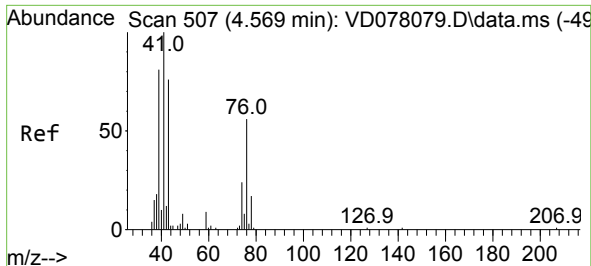
Tgt Ion: 43 Resp: 5516

Ion Ratio Lower Upper

43 100

58 17.7 34.7 52.1#

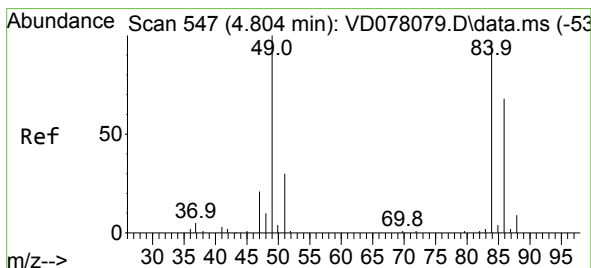
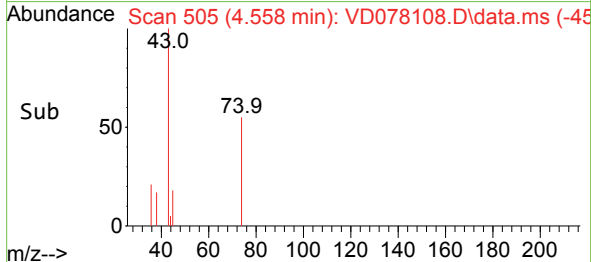
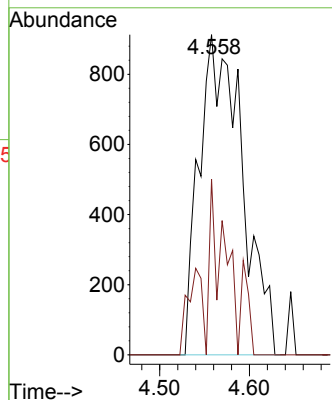
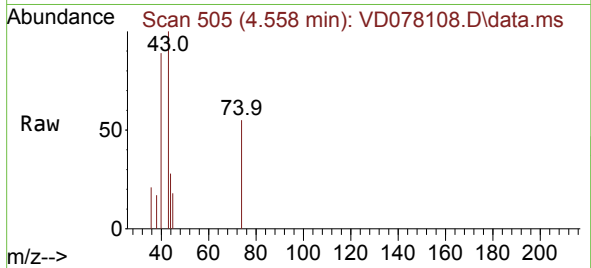




#18
Methyl Acetate
Concen: 1.933 ug/l
RT: 4.558 min Scan# 507
Delta R.T. -0.011 min
Lab File: VD078108.D
Acq: 29 Dec 2023 15:10

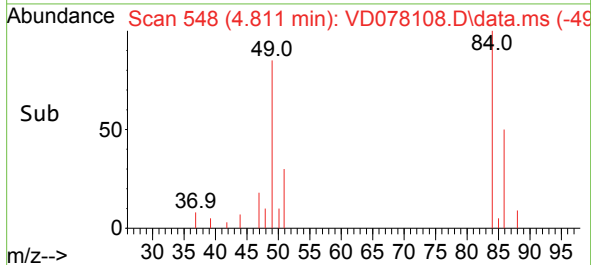
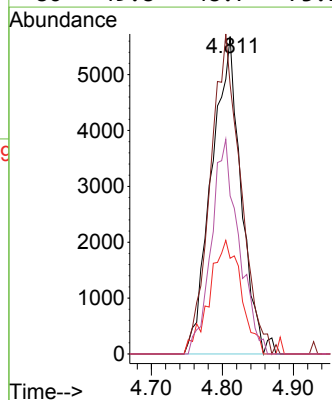
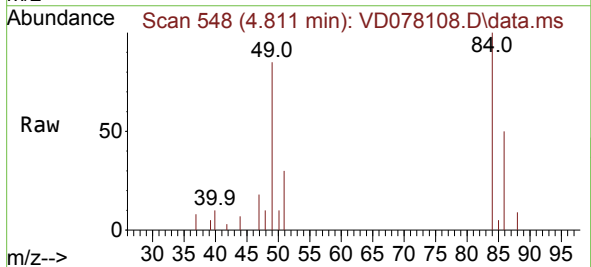
Instrument :
MSVOA_D
ClientSampleId :
EC48-BOTTOM

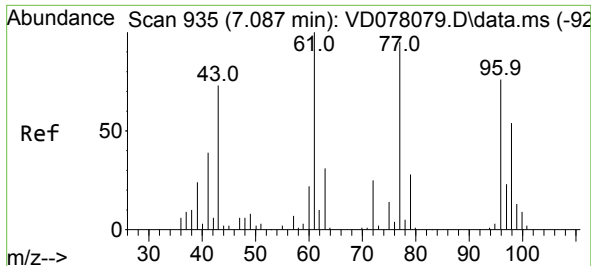
Tgt Ion: 43 Resp: 3041
Ion Ratio Lower Upper
43 100
74 7.6 26.4 39.6#



#20
Methylene Chloride
Concen: 4.020 ug/l
RT: 4.811 min Scan# 548
Delta R.T. 0.007 min
Lab File: VD078108.D
Acq: 29 Dec 2023 15:10

Tgt Ion: 84 Resp: 16339
Ion Ratio Lower Upper
84 100
49 84.9 71.4 107.2
51 30.1 24.5 36.7
86 49.8 48.7 73.1





#25

2-Butanone

Concen: 1140.998 ug/l

RT: 7.081 min Scan# 91

Delta R.T. -0.006 min

Lab File: VD078108.D

Acq: 29 Dec 2023 15:10

Instrument :

MSVOA_D

ClientSampleId :

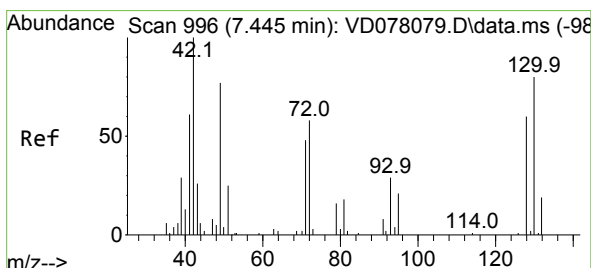
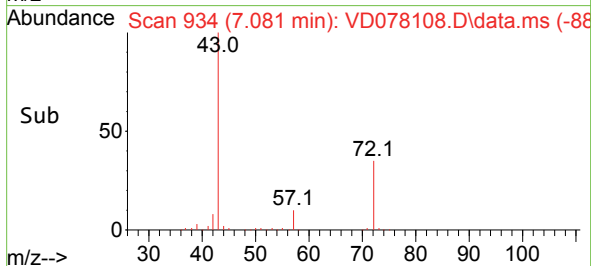
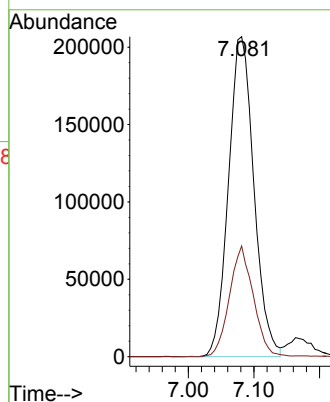
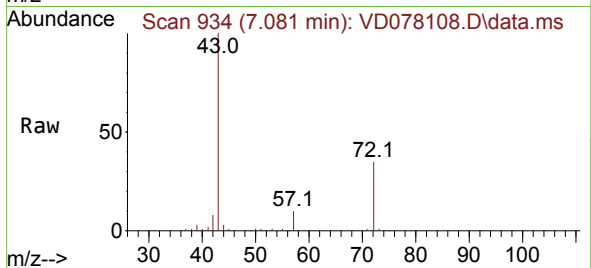
EC48-BOTTOM

Tgt Ion: 43 Resp: 557207

Ion Ratio Lower Upper

43 100

72 34.6 30.7 46.1



#29

Tetrahydrofuran

Concen: 1.154 ug/l

RT: 7.446 min Scan# 996

Delta R.T. 0.000 min

Lab File: VD078108.D

Acq: 29 Dec 2023 15:10

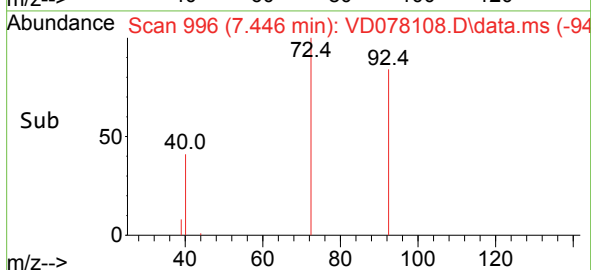
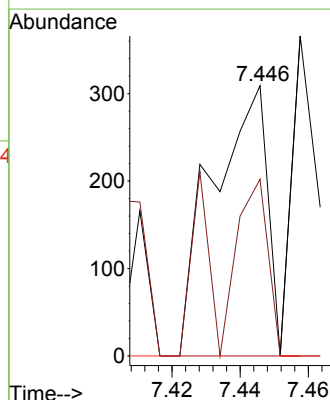
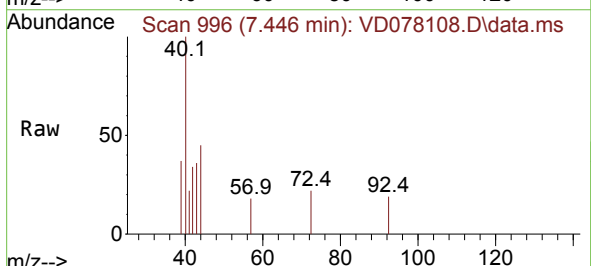
Tgt Ion: 42 Resp: 343

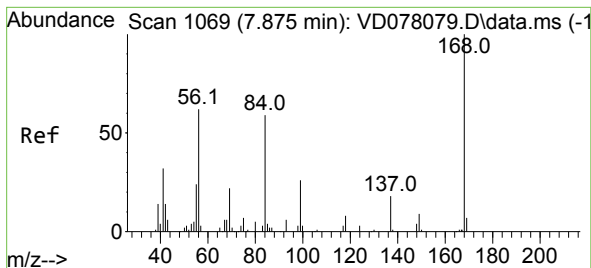
Ion Ratio Lower Upper

42 100

72 37.3 46.5 69.7#

71 0.0 44.5 66.7#





#31

Cyclohexane

Concen: 1.459 ug/l

RT: 7.881 min Scan# 1107

Delta R.T. 0.006 min

Lab File: VD078108.D

Acq: 29 Dec 2023 15:10

Instrument :

MSVOA_D

ClientSampleId :

EC48-BOTTOM

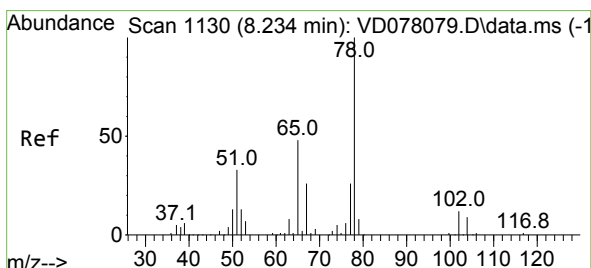
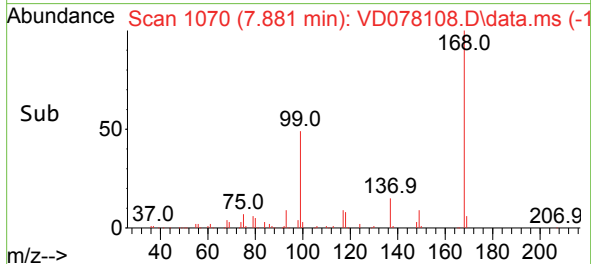
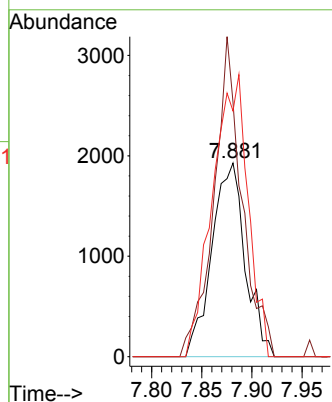
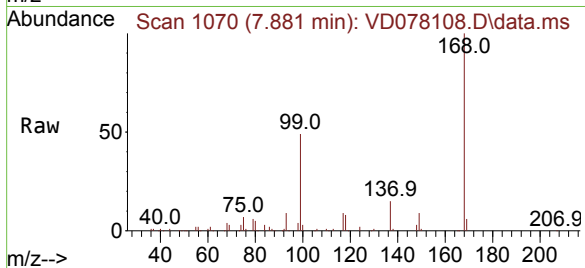
Tgt Ion: 56 Resp: 4468

Ion Ratio Lower Upper

56 100

69 131.5 28.6 43.0#

84 127.0 84.8 127.2



#33

1,2-Dichloroethane-d4

Concen: 45.822 ug/l

RT: 8.228 min Scan# 1129

Delta R.T. -0.005 min

Lab File: VD078108.D

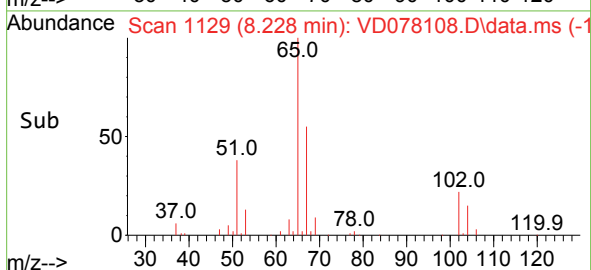
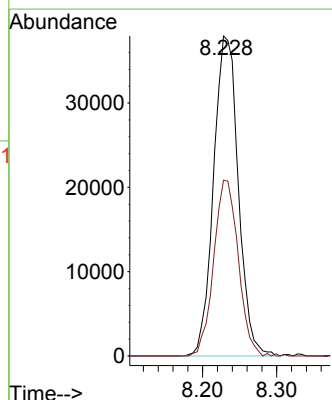
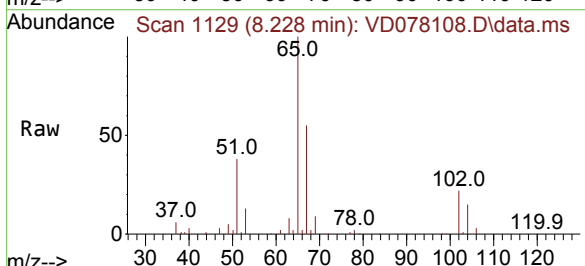
Acq: 29 Dec 2023 15:10

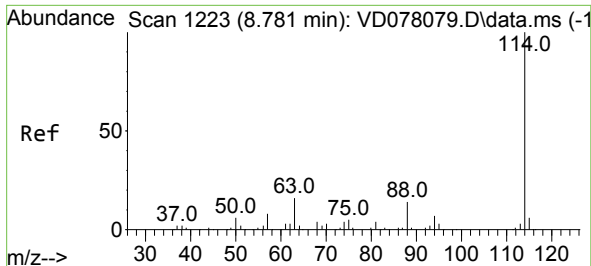
Tgt Ion: 65 Resp: 87951

Ion Ratio Lower Upper

65 100

67 54.5 0.0 115.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.781 min Scan# 11

Delta R.T. 0.000 min

Lab File: VD078108.D

Acq: 29 Dec 2023 15:10

Instrument :

MSVOA_D

ClientSampleId :

EC48-BOTTOM

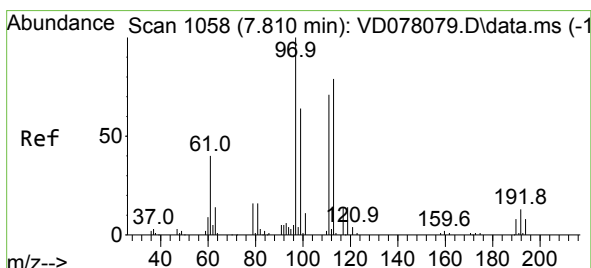
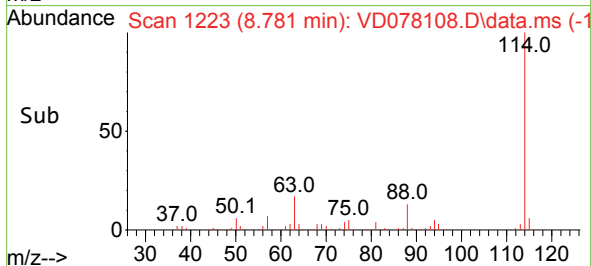
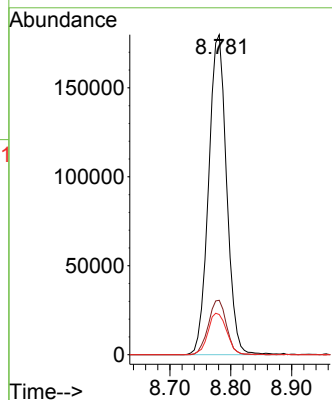
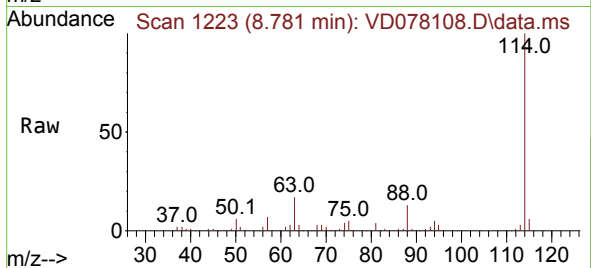
Tgt Ion:114 Resp: 369488

Ion Ratio Lower Upper

114 100

63 17.0 0.0 33.4

88 12.6 0.0 26.2



#35

Dibromofluoromethane

Concen: 46.640 ug/l

RT: 7.805 min Scan# 1057

Delta R.T. -0.005 min

Lab File: VD078108.D

Acq: 29 Dec 2023 15:10

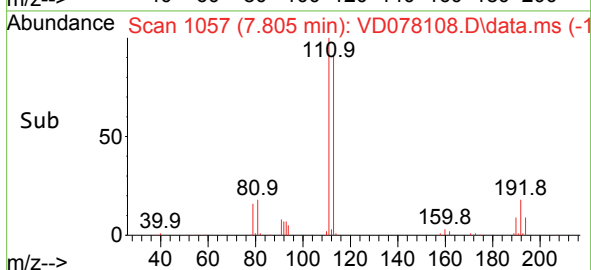
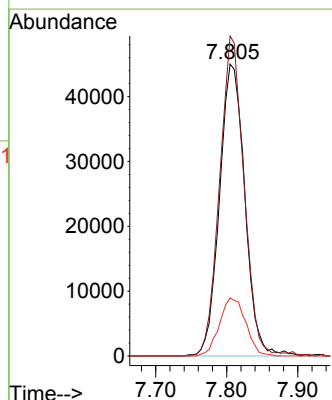
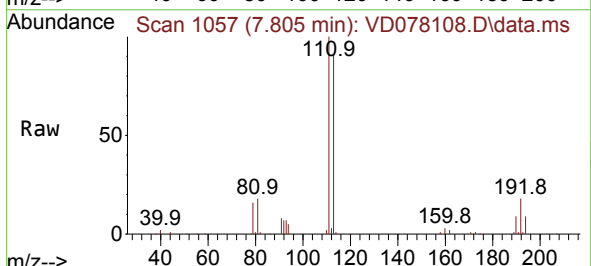
Tgt Ion:113 Resp: 110883

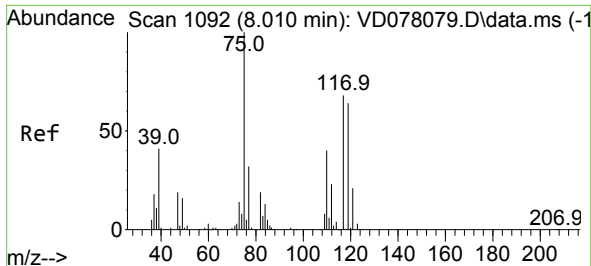
Ion Ratio Lower Upper

113 100

111 105.7 84.7 127.1

192 20.7 16.8 25.2

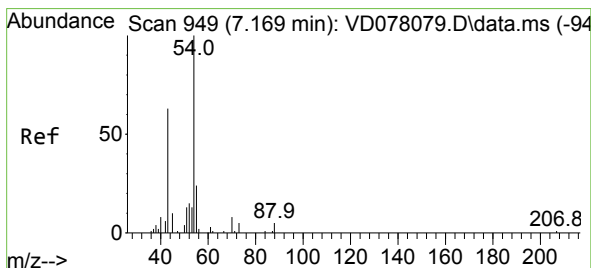
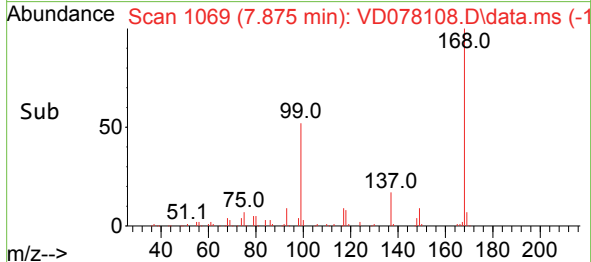
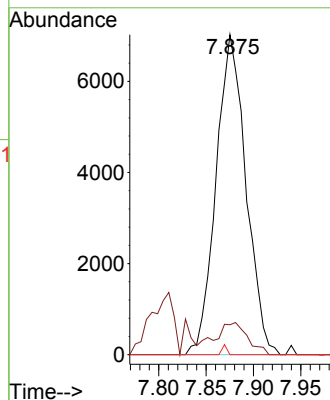
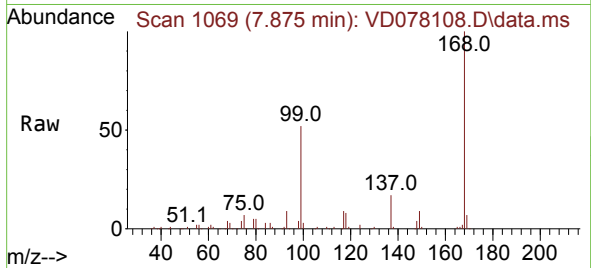




#36
1,1-Dichloropropene
Concen: 4.618 ug/l
RT: 7.875 min Scan# 1092
Delta R.T. -0.135 min
Lab File: VD078108.D
Acq: 29 Dec 2023 15:10

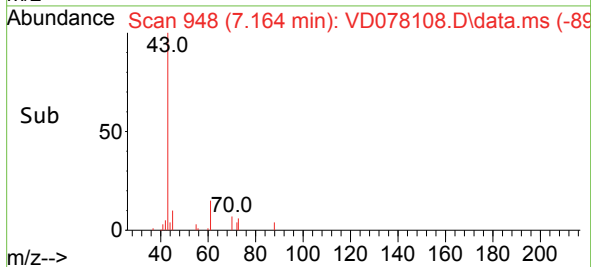
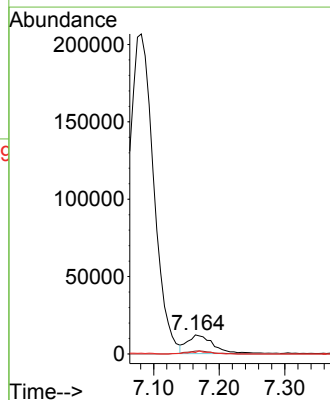
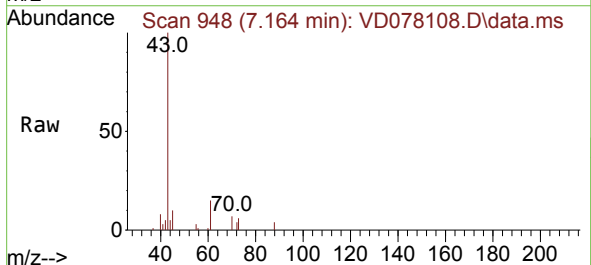
Instrument :
MSVOA_D
ClientSampleId :
EC48-BOTTOM

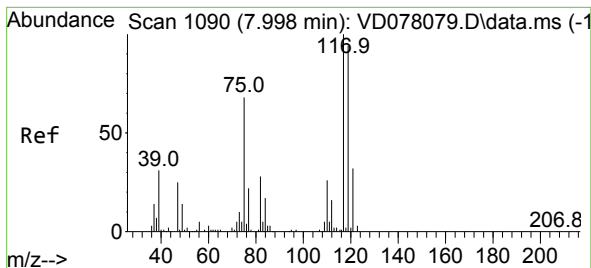
Tgt Ion: 75 Resp: 15448
Ion Ratio Lower Upper
75 100
110 11.2 19.9 59.6#
77 0.5 24.7 37.1#



#37
Ethyl Acetate
Concen: 29.794 ug/l
RT: 7.164 min Scan# 948
Delta R.T. -0.005 min
Lab File: VD078108.D
Acq: 29 Dec 2023 15:10

Tgt Ion: 43 Resp: 33147
Ion Ratio Lower Upper
43 100
61 15.8 14.9 22.3
70 11.3 10.0 15.0





#38

Carbon Tetrachloride

Concen: 5.462 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.123 min

Lab File: VD078108.D

Acq: 29 Dec 2023 15:10

Instrument :

MSVOA_D

ClientSampleId :

EC48-BOTTOM

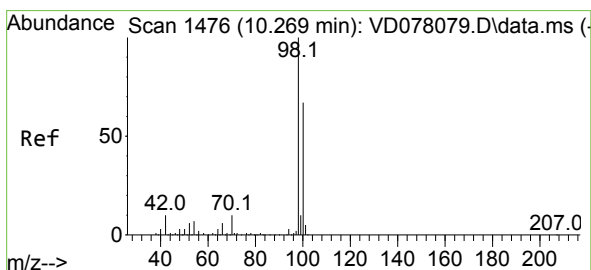
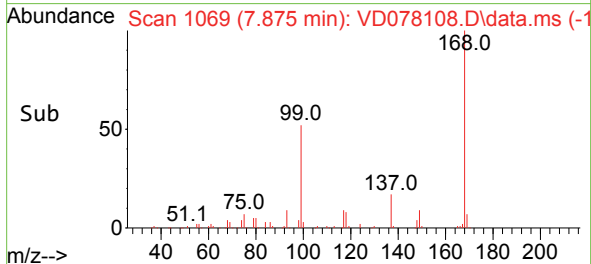
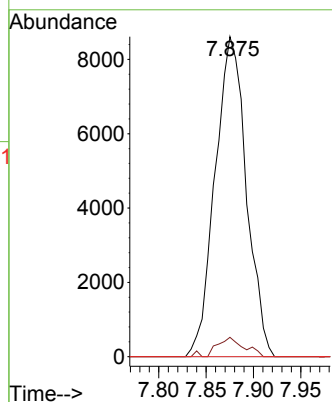
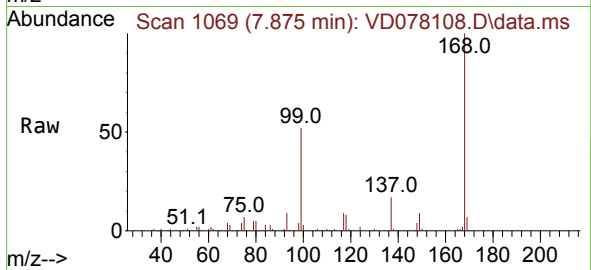
Tgt Ion:117 Resp: 19797

Ion Ratio Lower Upper

117 100

119 6.0 78.0 117.0#

121 0.0 24.2 36.2#



#50

Toluene-d8

Concen: 53.068 ug/l

RT: 10.269 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VD078108.D

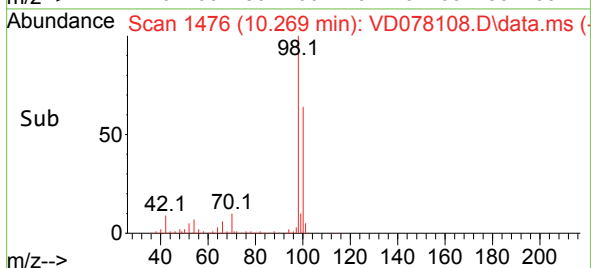
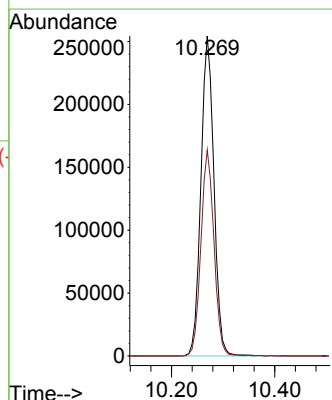
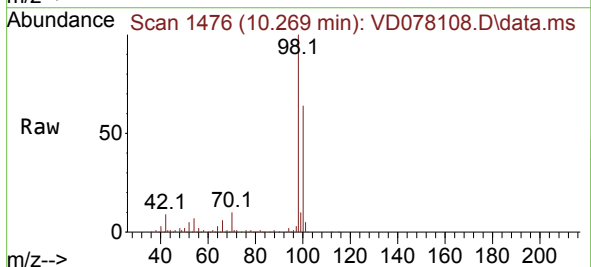
Acq: 29 Dec 2023 15:10

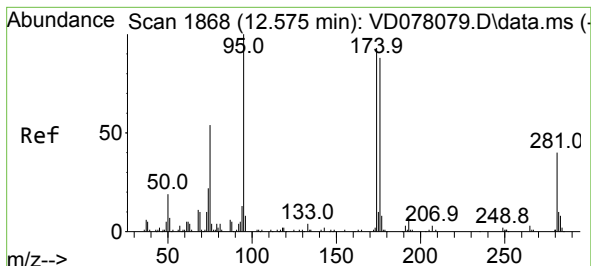
Tgt Ion: 98 Resp: 443935

Ion Ratio Lower Upper

98 100

100 64.7 50.3 75.5

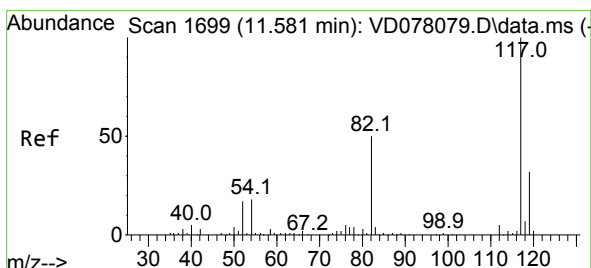
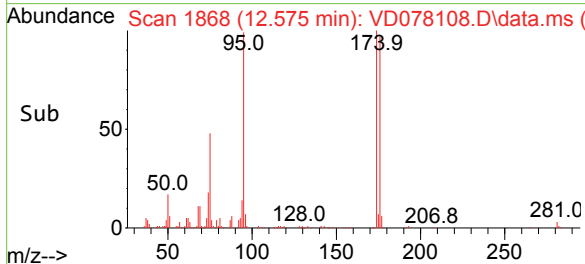
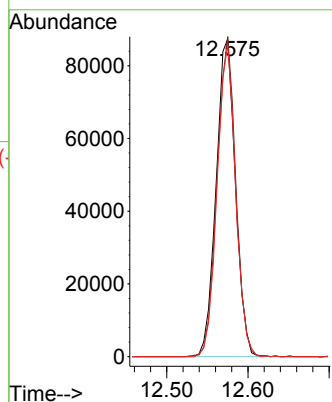
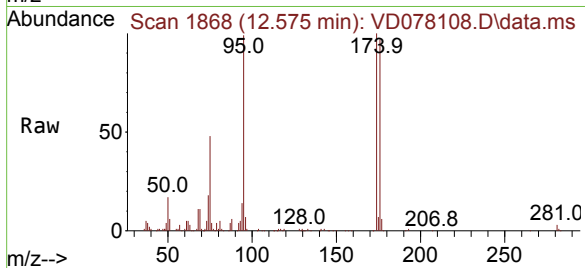




#62
4-Bromofluorobenzene
Concen: 53.624 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.000 min
Lab File: VD078108.D
Acq: 29 Dec 2023 15:10

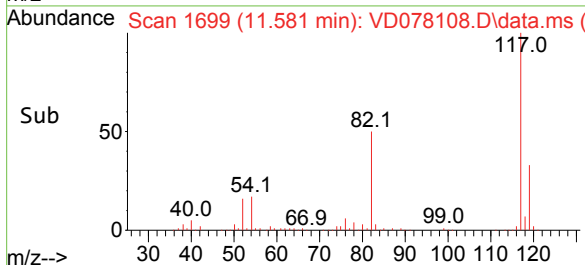
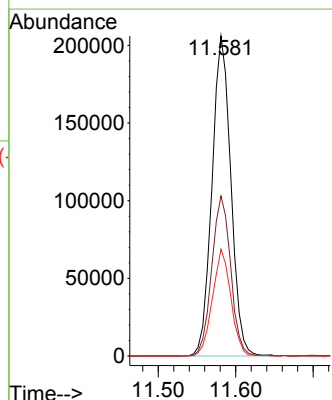
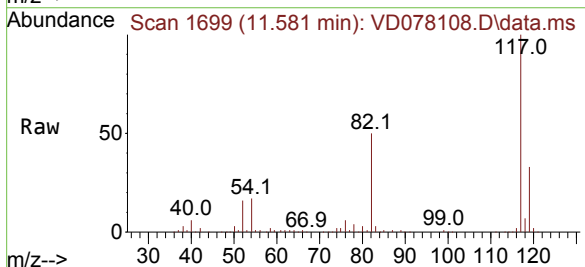
Instrument :
MSVOA_D
ClientSampleId :
EC48-BOTTOM

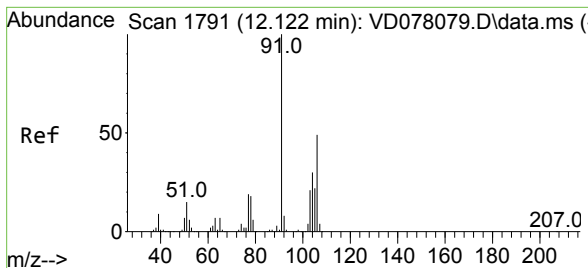
Tgt Ion: 95 Resp: 144336
Ion Ratio Lower Upper
95 100
174 97.6 0.0 201.8
176 93.7 0.0 191.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 1699
Delta R.T. 0.000 min
Lab File: VD078108.D
Acq: 29 Dec 2023 15:10

Tgt Ion: 117 Resp: 348408
Ion Ratio Lower Upper
117 100
82 49.9 38.3 57.5
119 33.4 25.0 37.4





#69

o-Xylene

Concen: 1.833 ug/l

RT: 12.128 min Scan# 1791

Delta R.T. 0.006 min

Lab File: VD078108.D

Acq: 29 Dec 2023 15:10

Instrument :

MSVOA_D

ClientSampleId :

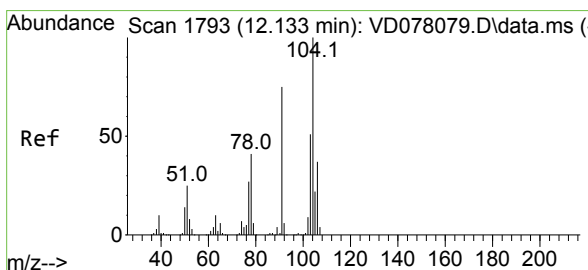
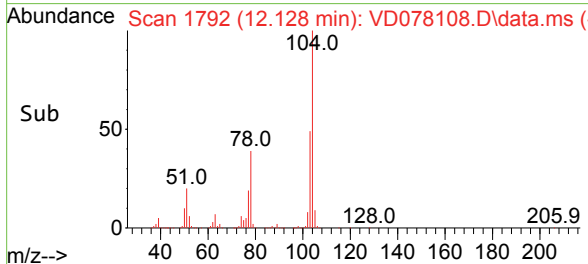
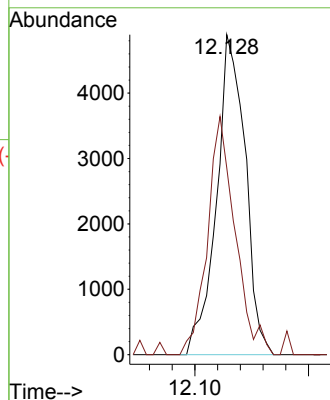
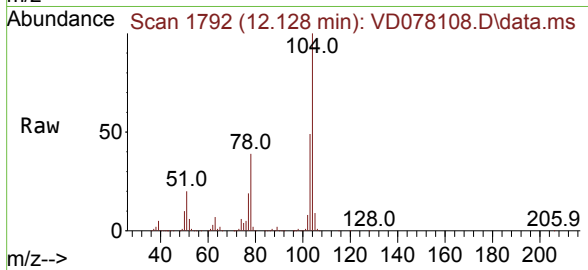
EC48-BOTTOM

Tgt Ion:106 Resp: 8580

Ion Ratio Lower Upper

106 100

91 72.0 97.9 293.6#



#70

Styrene

Concen: 269.125 ug/l

RT: 12.134 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VD078108.D

Acq: 29 Dec 2023 15:10

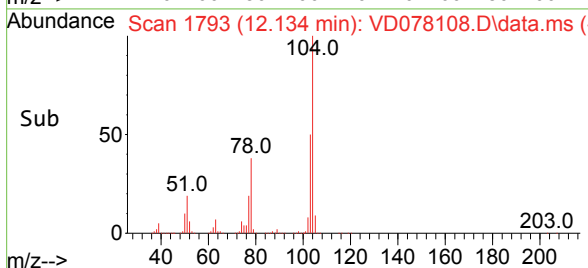
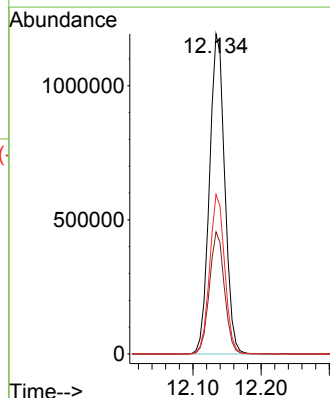
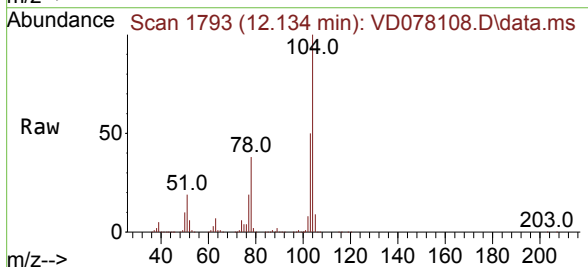
Tgt Ion:104 Resp: 1859850

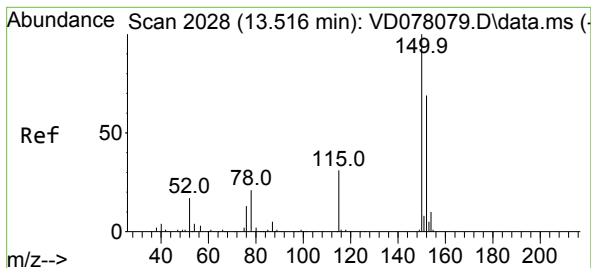
Ion Ratio Lower Upper

104 100

78 37.5 33.2 49.8

103 49.2 43.6 65.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.516 min Scan# 20

Delta R.T. 0.000 min

Lab File: VD078108.D

Acq: 29 Dec 2023 15:10

Instrument :

MSVOA_D

ClientSampleId :

EC48-BOTTOM

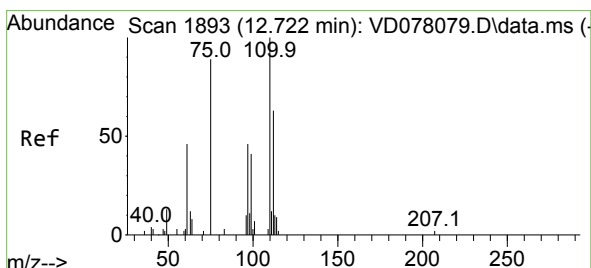
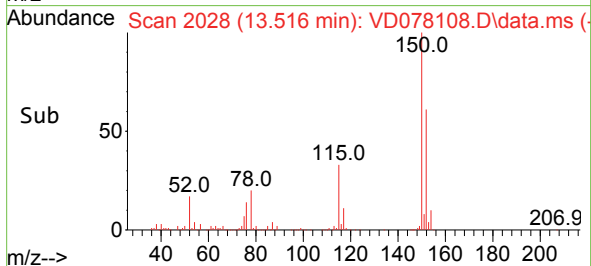
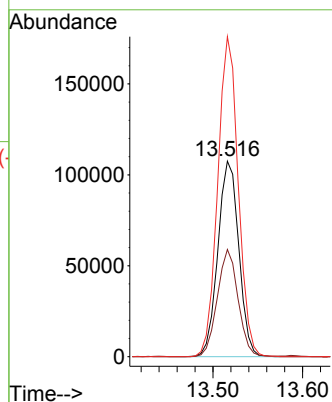
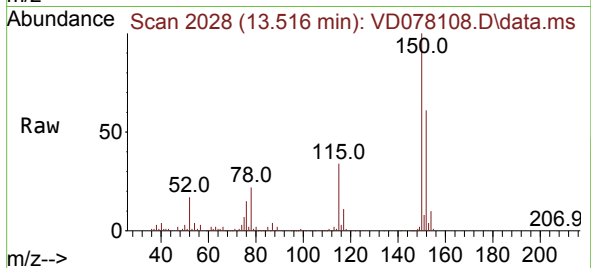
Tgt Ion:152 Resp: 174016

Ion Ratio Lower Upper

152 100

115 54.3 27.1 81.3

150 160.2 0.0 353.6



#76

1,2,3-Trichloropropane

Concen: 49.415 ug/l

RT: 12.569 min Scan# 1867

Delta R.T. -0.153 min

Lab File: VD078108.D

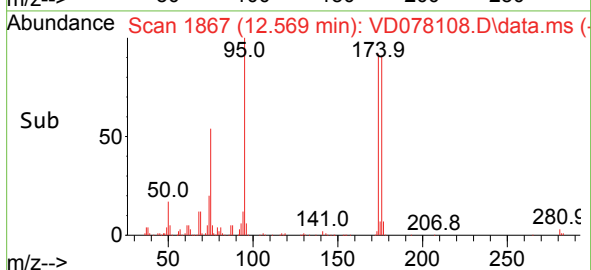
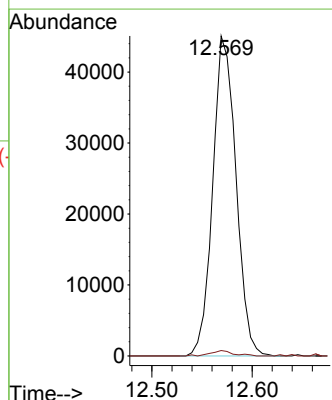
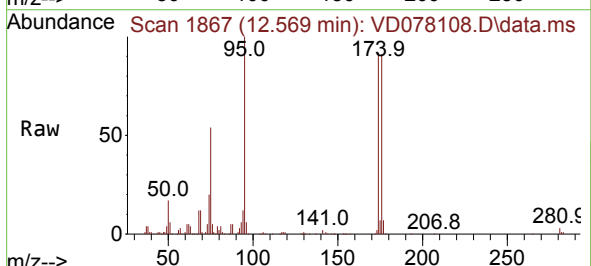
Acq: 29 Dec 2023 15:10

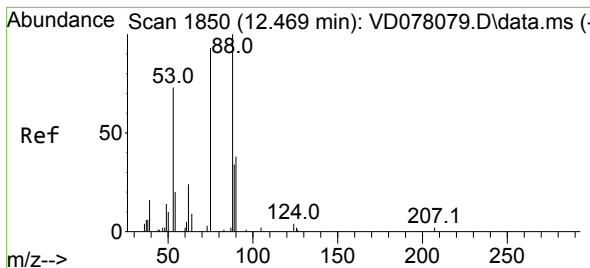
Tgt Ion: 75 Resp: 72547

Ion Ratio Lower Upper

75 100

77 1.7 0.0 0.0#

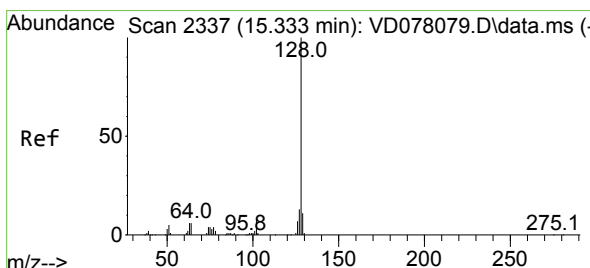
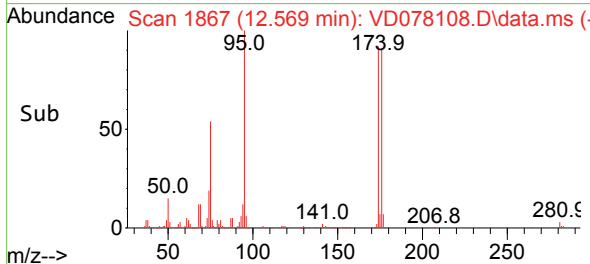
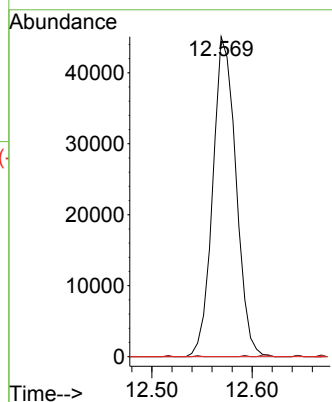
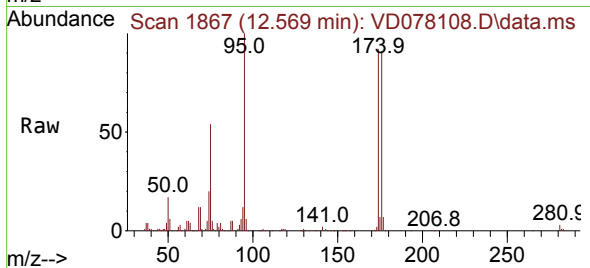




#81
trans-1,4-Dichloro-2-butene
Concen: 106.478 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. 0.100 min
Lab File: VD078108.D
Acq: 29 Dec 2023 15:10

Instrument :
MSVOA_D
ClientSampleId :
EC48-BOTTOM

Tgt Ion: 75 Resp: 72547
Ion Ratio Lower Upper
75 100
53 0.0 63.0 94.4#
89 0.0 37.9 56.9#



#95
Naphthalene
Concen: 1.190 ug/l
RT: 15.334 min Scan# 2337
Delta R.T. 0.000 min
Lab File: VD078108.D
Acq: 29 Dec 2023 15:10

Tgt Ion: 128 Resp: 6854
Ion Ratio Lower Upper
128 100
127 13.8 10.5 15.7
129 8.0 8.7 13.1#

