

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY061423\
 Data File : VY014174.D
 Acq On : 14 Jun 2023 23:18
 Operator : KP/MD
 Sample : 03224-16
 Misc : 9.70g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TOTAL-VOC-SB-15-GRAB-6

Quant Time: Jun 15 01:49:57 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060923S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 09 18:07:13 2023
 Response via : Initial Calibration

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

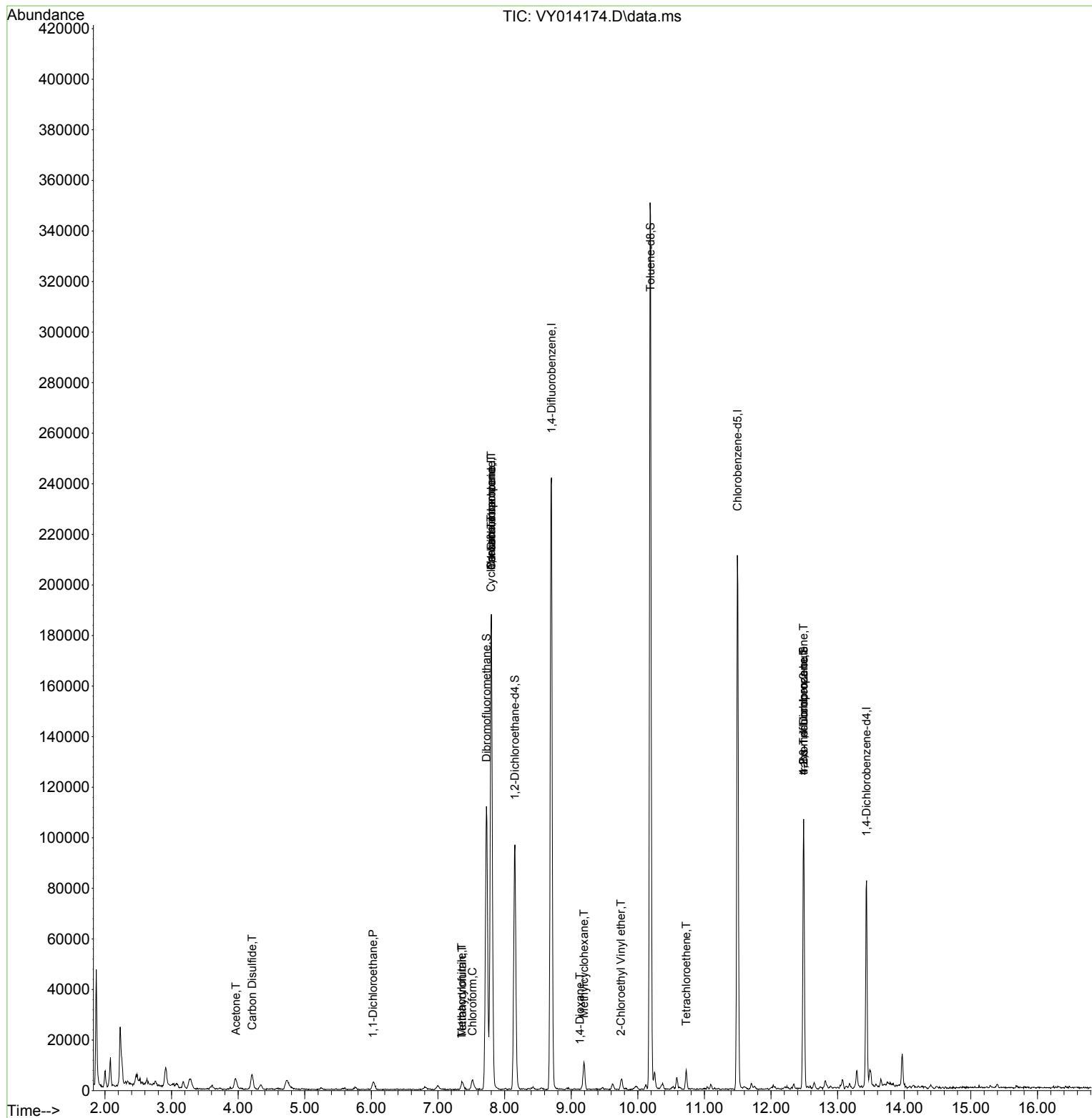
Internal Standards						
1) Pentafluorobenzene	7.801	168	138206	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.703	114	204974	50.000	ug/l	0.01
63) Chlorobenzene-d5	11.496	117	114780	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.434	152	21406	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.155	65	79567	41.343	ug/l	0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	=	82.680%
35) Dibromofluoromethane	7.728	113	74818	51.470	ug/l	0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	=	102.940%
50) Toluene-d8	10.191	98	227306	41.826	ug/l	0.01
Spiked Amount	50.000	Range	58 - 134	Recovery	=	83.660%
62) 4-Bromofluorobenzene	12.489	95	27615	14.305	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	28.600%#
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.960	59	236	Below Cal	#	89
13) Acrolein	3.741	56	26	Below Cal	#	14
16) Acetone	3.966	43	6918	11.925	ug/l #	86
17) Carbon Disulfide	4.210	76	11253	2.201	ug/l	98
20) Methylene Chloride	4.722	84	2546	Below Cal		91
24) 1,1-Dichloroethane	6.027	63	4348	1.377	ug/l	100
29) Tetrahydrofuran	7.362	42	2081	4.596	ug/l #	92
30) Chloroform	7.515	83	3360	1.003	ug/l	94
31) Cyclohexane	7.795	56	5381	2.087	ug/l #	65
36) 1,1-Dichloropropene	7.801	75	10523	4.643	ug/l #	53
38) Carbon Tetrachloride	7.801	117	13114	5.015	ug/l #	17
39) Methylcyclohexane	9.191	83	3878	1.542	ug/l	95
41) Methacrylonitrile	7.356	41	1449	1.816	ug/l #	17
49) 1,4-Dioxane	9.130	88	23	1.718	ug/l #	36
58) 2-Chloroethyl Vinyl ether	9.746	63	31	28.651	ug/l #	48
64) Tetrachloroethene	10.727	164	1431	1.463	ug/l	88
76) 1,2,3-Trichloropropane	12.489	75	14110	50.242	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.489	75	14110	108.603	ug/l #	10

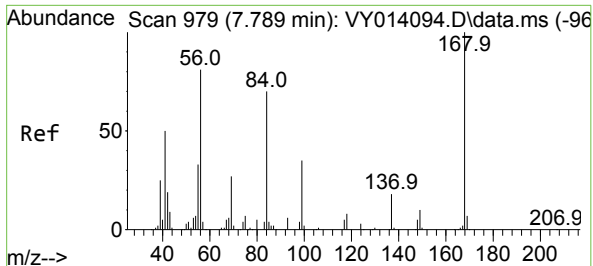
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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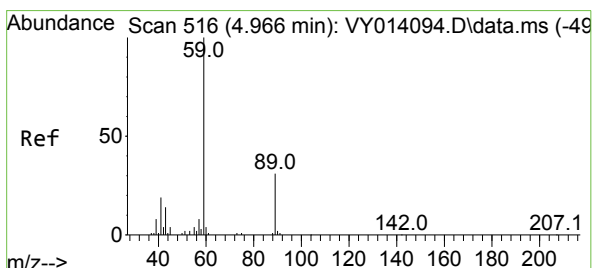
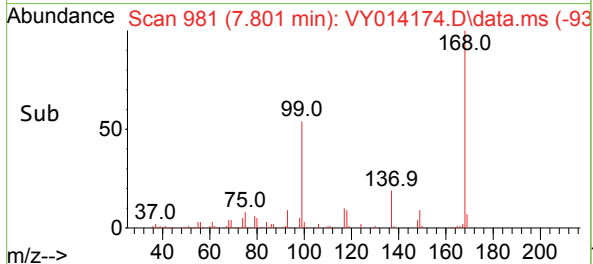
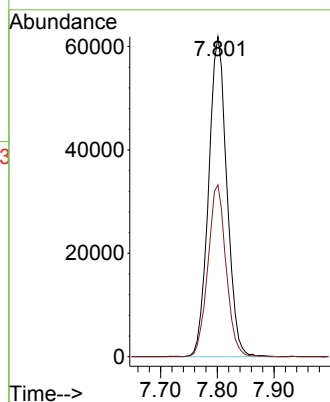
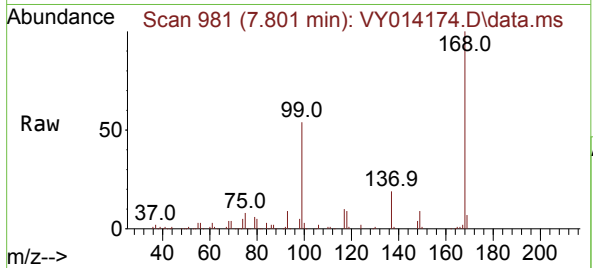




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.801 min Scan# 91
Delta R.T. 0.012 min
Lab File: VY014174.D
Acq: 14 Jun 2023 23:18

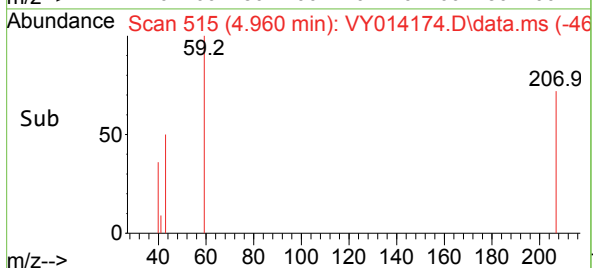
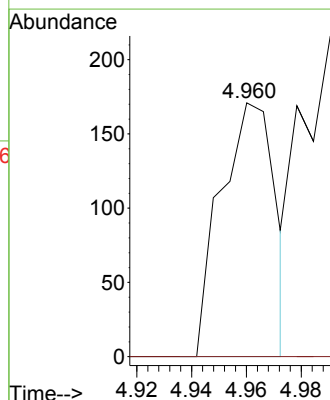
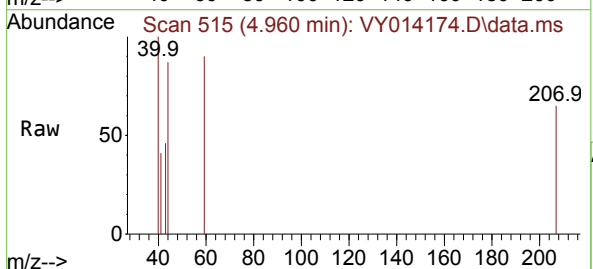
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-SB-15-GRAB-6

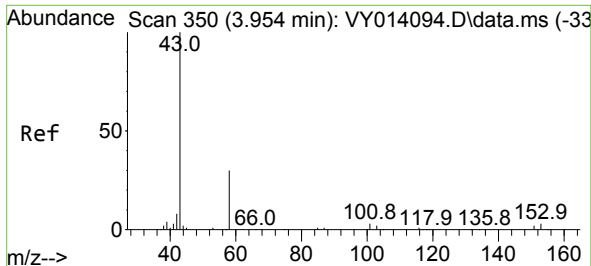
Tgt Ion:168 Resp: 138206
Ion Ratio Lower Upper
168 100
99 53.7 43.4 65.0



#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.960 min Scan# 515
Delta R.T. -0.006 min
Lab File: VY014174.D
Acq: 14 Jun 2023 23:18

Tgt Ion: 59 Resp: 236
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.4#

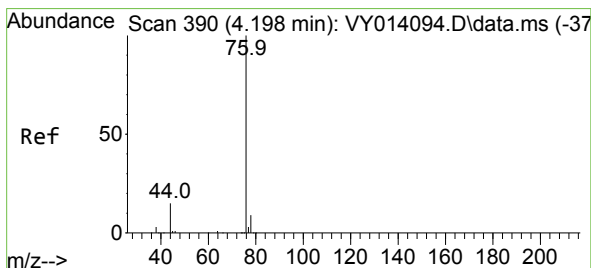
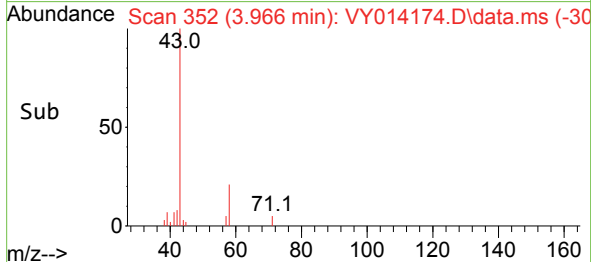
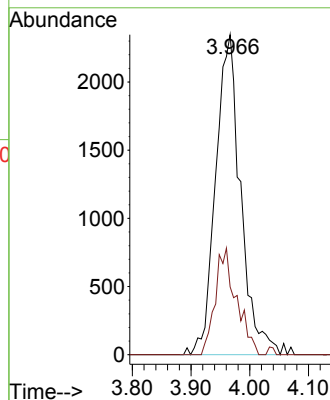
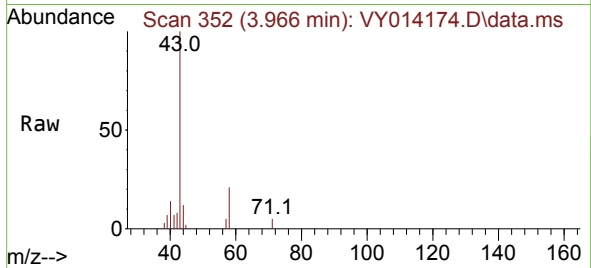




#16
Acetone
Concen: 11.925 ug/l
RT: 3.966 min Scan# 311
Delta R.T. 0.012 min
Lab File: VY014174.D
Acq: 14 Jun 2023 23:18

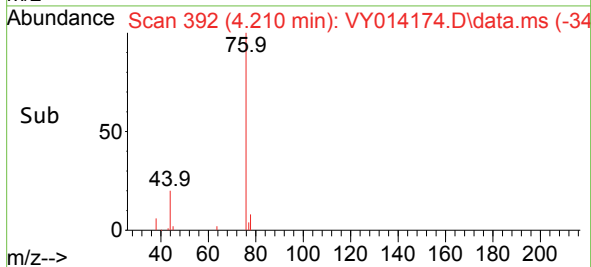
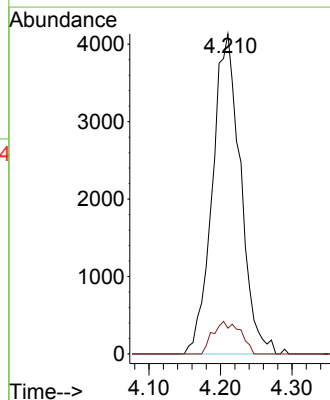
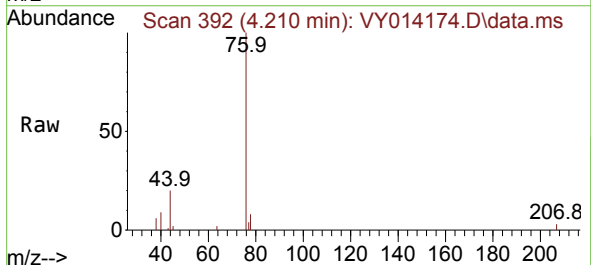
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-SB-15-GRAB-6

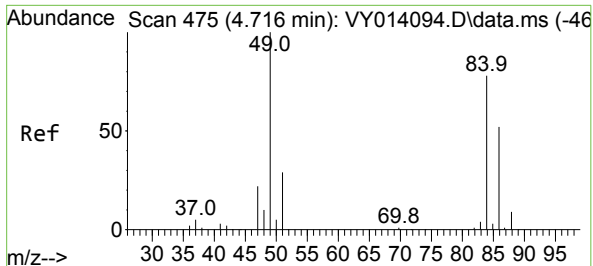
Tgt Ion: 43 Resp: 6918
Ion Ratio Lower Upper
43 100
58 21.2 22.7 34.1#



#17
Carbon Disulfide
Concen: 2.201 ug/l
RT: 4.210 min Scan# 392
Delta R.T. 0.012 min
Lab File: VY014174.D
Acq: 14 Jun 2023 23:18

Tgt Ion: 76 Resp: 11253
Ion Ratio Lower Upper
76 100
78 8.1 7.0 10.4





#20

Methylene Chloride

Concen: Below Cal

RT: 4.722 min Scan# 41

Delta R.T. 0.006 min

Lab File: VY014174.D

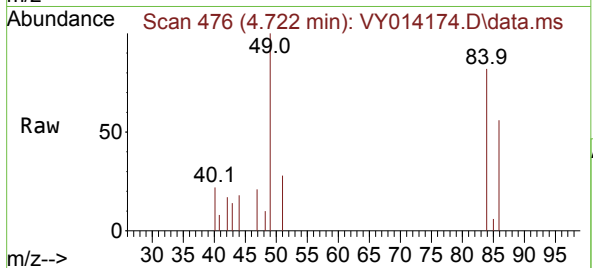
Acq: 14 Jun 2023 23:18

Instrument :

MSVOA_Y

ClientSampleId :

TOTAL-VOC-SB-15-GRAB-6



Tgt Ion: 84 Resp: 2546

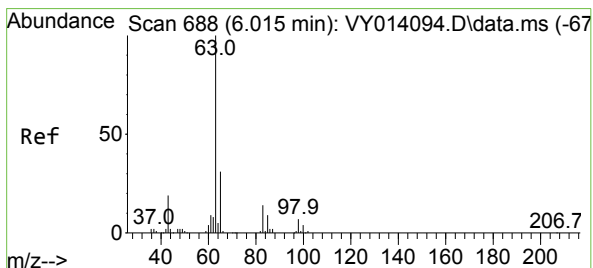
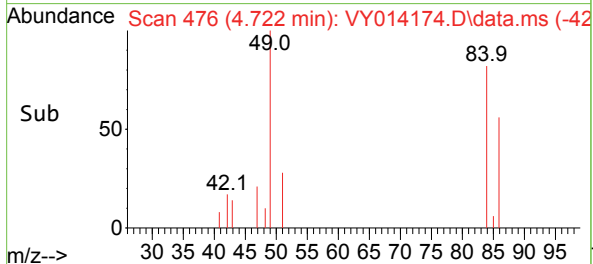
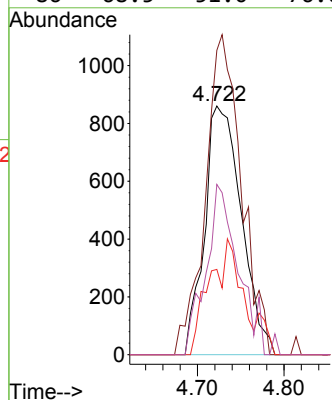
Ion Ratio Lower Upper

84 100

49 122.4 106.9 160.3

51 34.3 33.2 49.8

86 68.5 51.0 76.6



#24

1,1-Dichloroethane

Concen: 1.377 ug/l

RT: 6.027 min Scan# 690

Delta R.T. 0.012 min

Lab File: VY014174.D

Acq: 14 Jun 2023 23:18

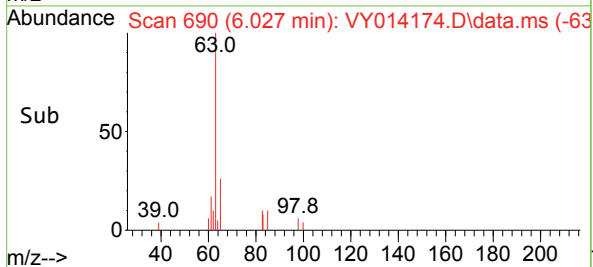
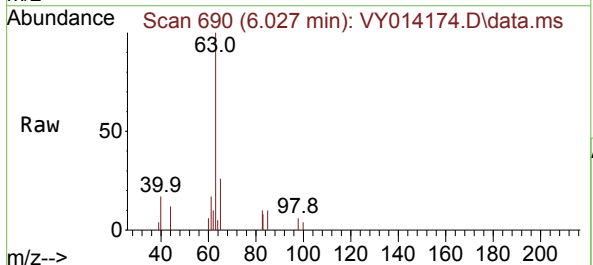
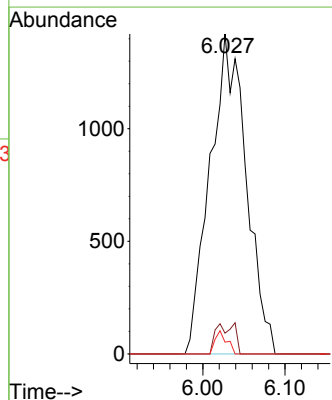
Tgt Ion: 63 Resp: 4348

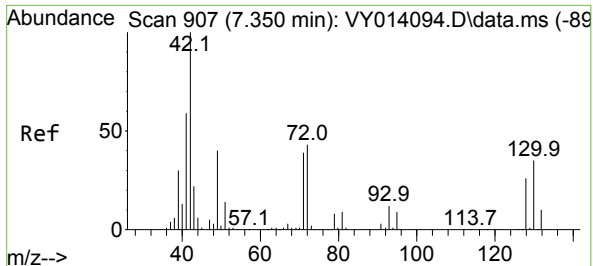
Ion Ratio Lower Upper

63 100

98 6.5 3.1 9.4

100 3.7 1.8 5.5





#29

Tetrahydrofuran

Concen: 4.596 ug/l

RT: 7.362 min Scan# 907

Delta R.T. 0.012 min

Lab File: VY014174.D

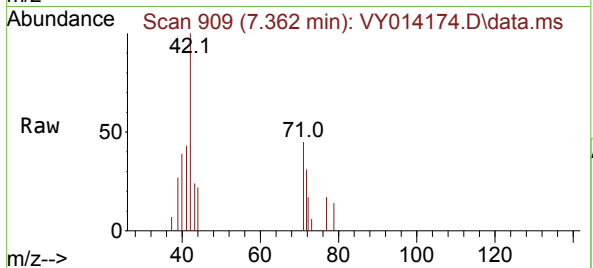
Acq: 14 Jun 2023 23:18

Instrument :

MSVOA_Y

ClientSampleId :

TOTAL-VOC-SB-15-GRAB-6



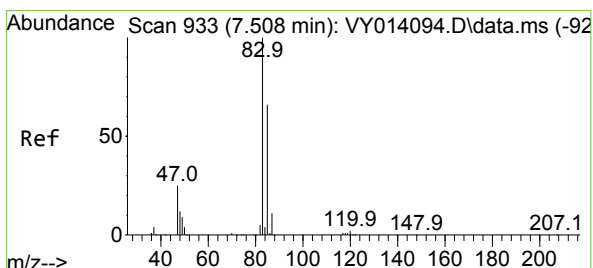
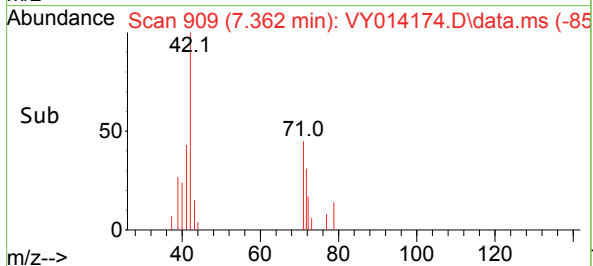
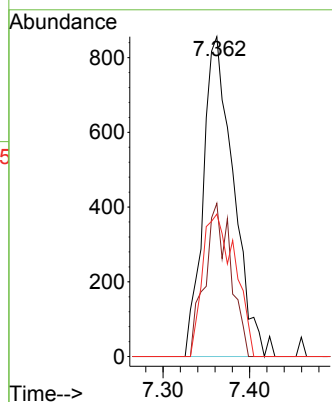
Tgt Ion: 42 Resp: 2081

Ion Ratio Lower Upper

42 100

72 40.7 32.8 49.2

71 47.9 31.0 46.4#



#30

Chloroform

Concen: 1.003 ug/l

RT: 7.515 min Scan# 934

Delta R.T. 0.006 min

Lab File: VY014174.D

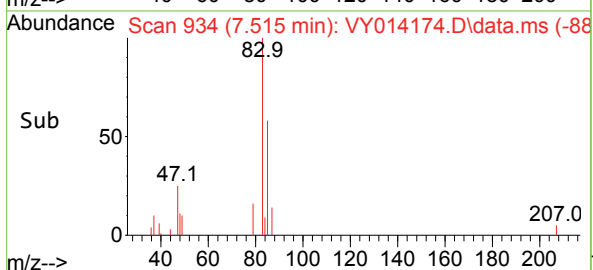
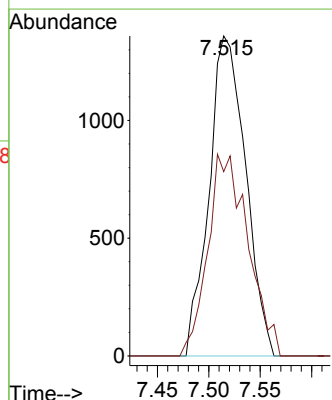
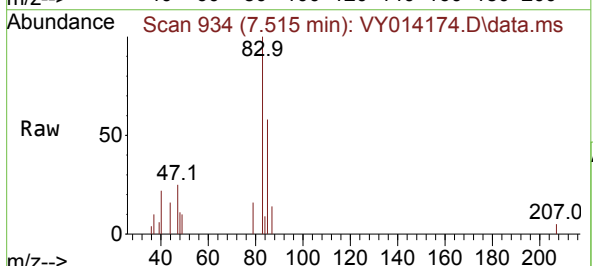
Acq: 14 Jun 2023 23:18

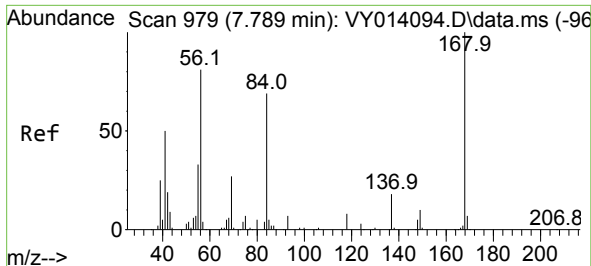
Tgt Ion: 83 Resp: 3360

Ion Ratio Lower Upper

83 100

85 57.6 49.7 74.5

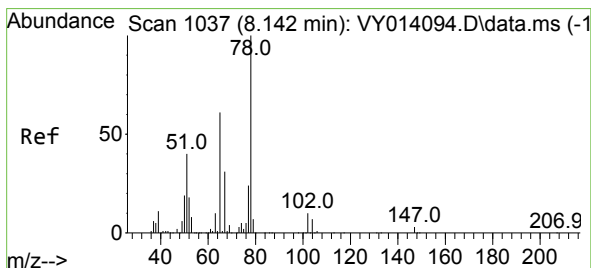
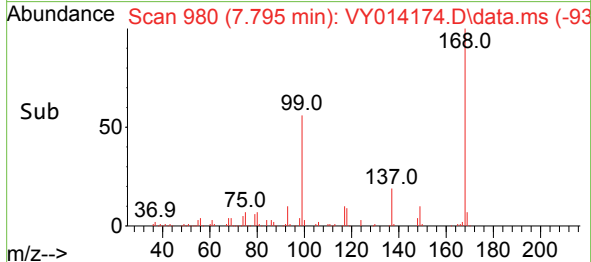
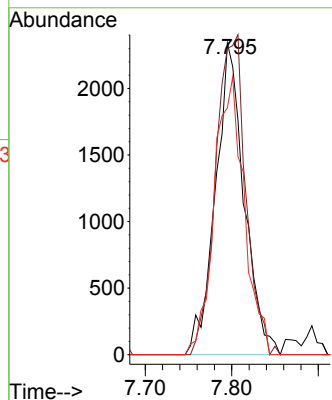
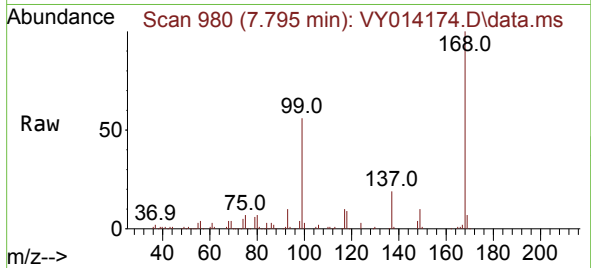




#31
Cyclohexane
Concen: 2.087 ug/l
RT: 7.795 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY014174.D
Acq: 14 Jun 2023 23:18

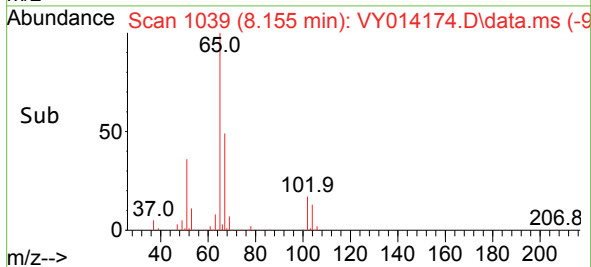
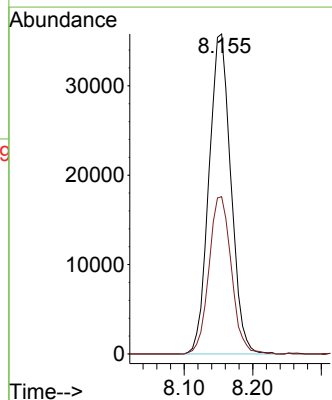
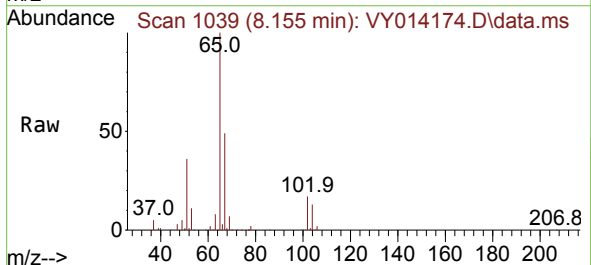
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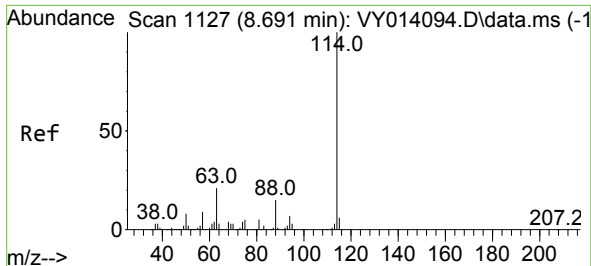
Tgt Ion: 56 Resp: 5381
Ion Ratio Lower Upper
56 100
69 98.2 27.8 41.6#
84 79.2 66.4 99.6



#33
1,2-Dichloroethane-d4
Concen: 41.343 ug/l
RT: 8.155 min Scan# 1039
Delta R.T. 0.013 min
Lab File: VY014174.D
Acq: 14 Jun 2023 23:18

Tgt Ion: 65 Resp: 79567
Ion Ratio Lower Upper
65 100
67 50.2 0.0 101.8

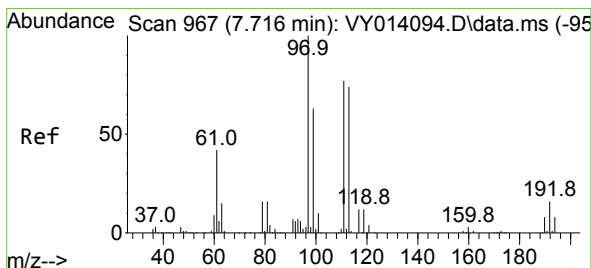
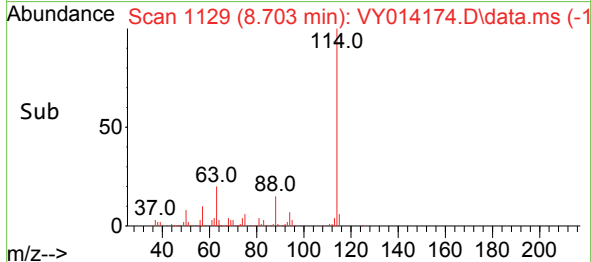
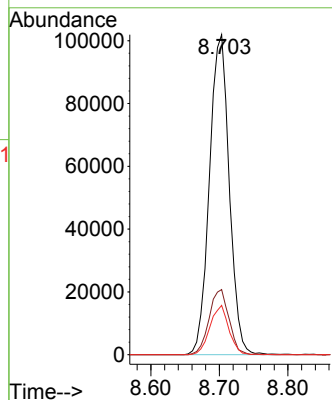
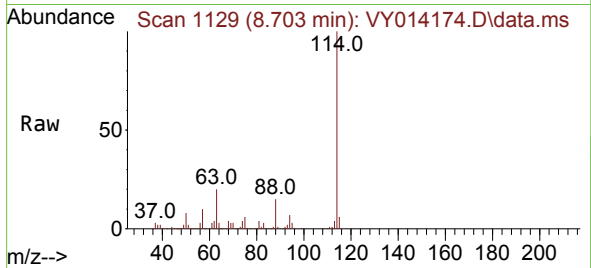




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.703 min Scan# 1127
Delta R.T. 0.012 min
Lab File: VY014174.D
Acq: 14 Jun 2023 23:18

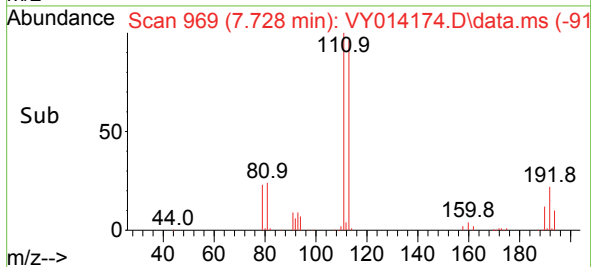
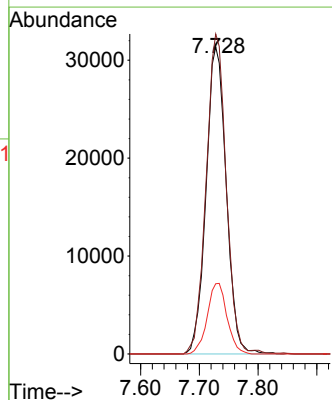
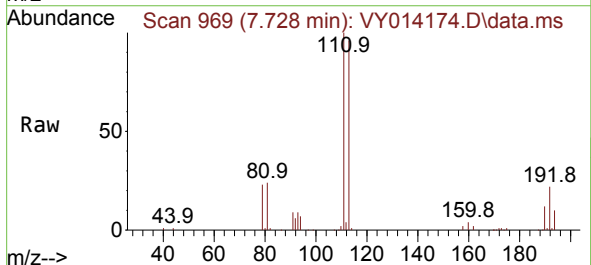
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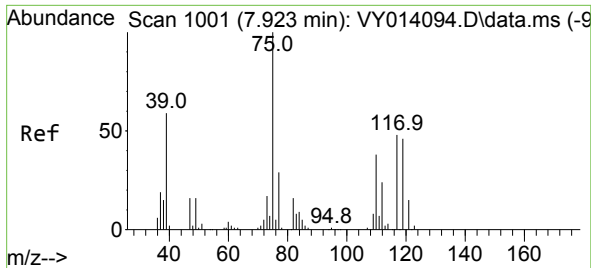
Tgt Ion:114 Resp: 204974
Ion Ratio Lower Upper
114 100
63 20.4 0.0 42.4
88 15.4 0.0 30.6



#35
Dibromofluoromethane
Concen: 51.470 ug/l
RT: 7.728 min Scan# 969
Delta R.T. 0.012 min
Lab File: VY014174.D
Acq: 14 Jun 2023 23:18

Tgt Ion:113 Resp: 74818
Ion Ratio Lower Upper
113 100
111 103.9 81.3 121.9
192 22.5 16.9 25.3

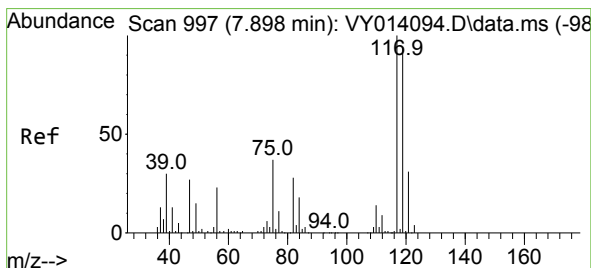
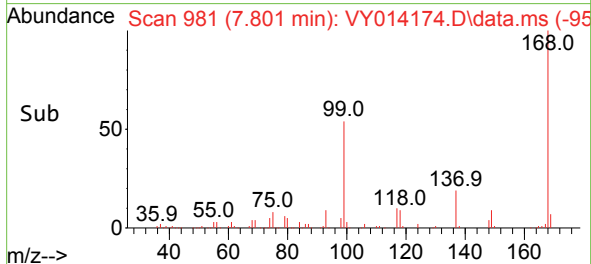
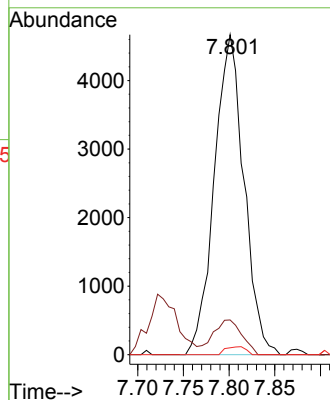
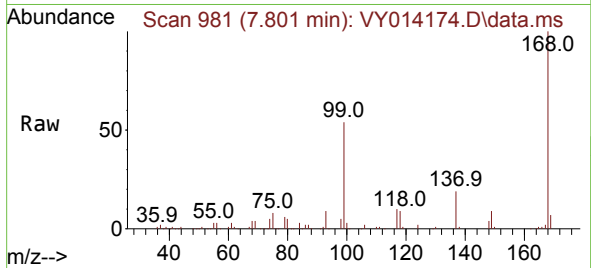




#36
1,1-Dichloropropene
Concen: 4.643 ug/l
RT: 7.801 min Scan# 981
Delta R.T. -0.122 min
Lab File: VY014174.D
Acq: 14 Jun 2023 23:18

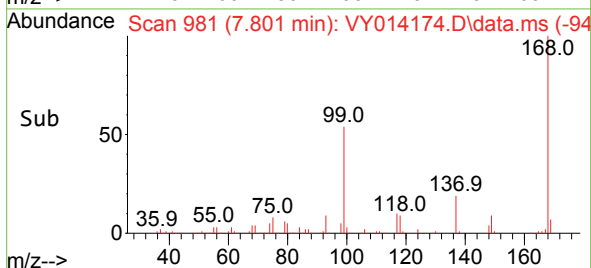
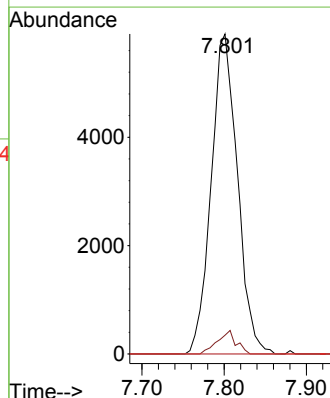
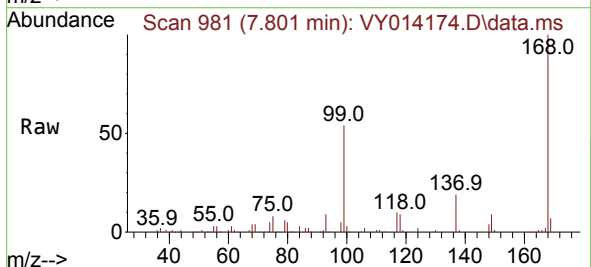
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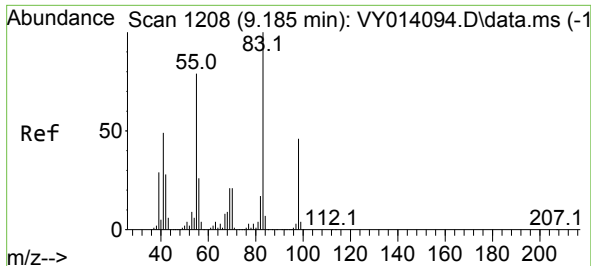
Tgt Ion: 75 Resp: 10523
Ion Ratio Lower Upper
75 100
110 10.7 17.8 53.5#
77 1.7 24.4 36.6#



#38
Carbon Tetrachloride
Concen: 5.015 ug/l
RT: 7.801 min Scan# 981
Delta R.T. -0.097 min
Lab File: VY014174.D
Acq: 14 Jun 2023 23:18

Tgt Ion: 117 Resp: 13114
Ion Ratio Lower Upper
117 100
119 5.8 76.4 114.6#
121 0.0 25.8 38.6#

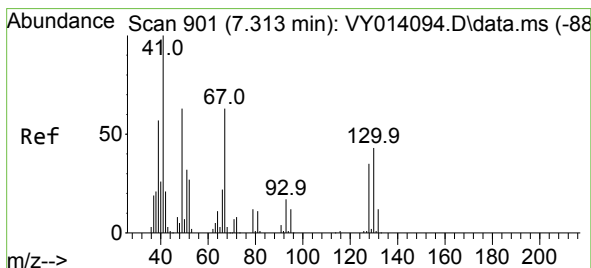
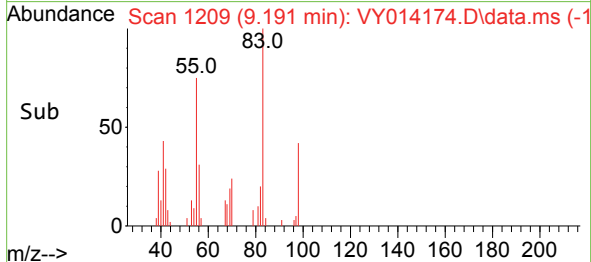
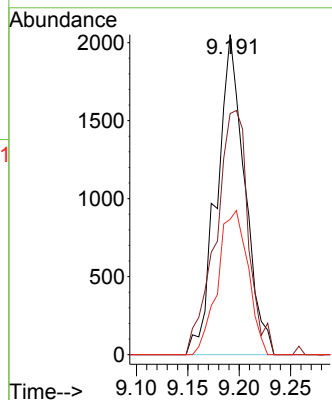
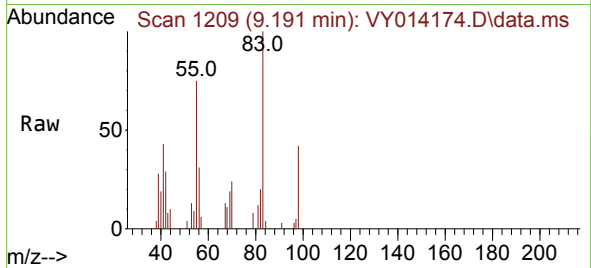




#39
Methylcyclohexane
Concen: 1.542 ug/l
RT: 9.191 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY014174.D
Acq: 14 Jun 2023 23:18

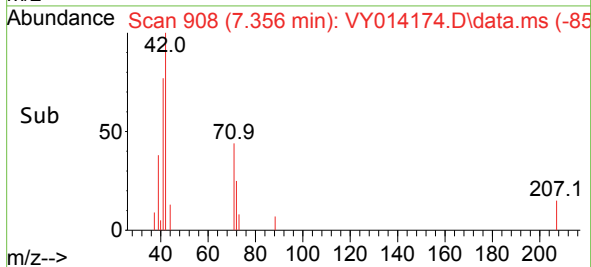
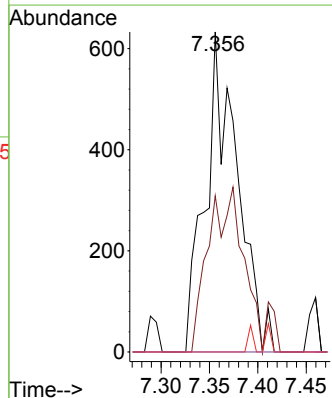
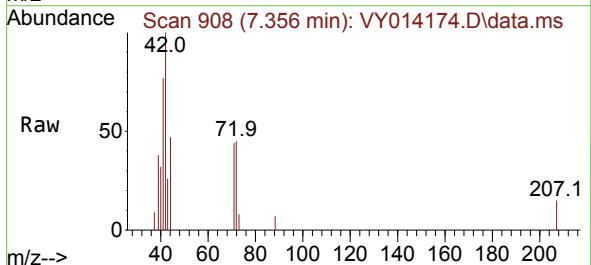
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-SB-15-GRAB-6

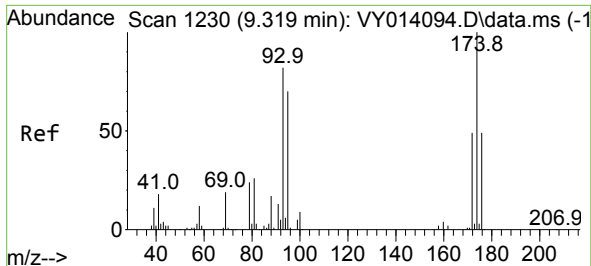
Tgt Ion: 83	Resp:	3878	
Ion	Ratio	Lower	Upper
83	100		
55	75.3	63.0	94.4
98	42.3	37.4	56.2



#41
Methacrylonitrile
Concen: 1.816 ug/l
RT: 7.356 min Scan# 908
Delta R.T. 0.043 min
Lab File: VY014174.D
Acq: 14 Jun 2023 23:18

Tgt Ion: 41	Resp:	1449	
Ion	Ratio	Lower	Upper
41	100		
39	0.0	52.1	78.1#
67	0.0	66.2	99.2#
52	0.0	29.9	44.9#





#49

1,4-Dioxane

Concen: 1.718 ug/l

RT: 9.130 min Scan# 1199

Delta R.T. -0.189 min

Lab File: VY014174.D

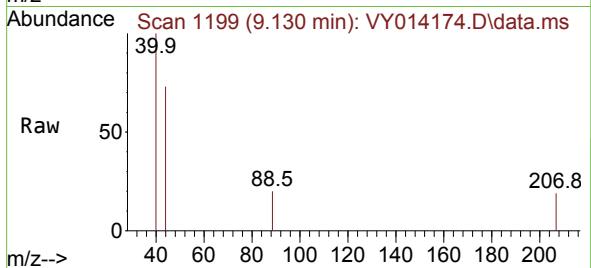
Acq: 14 Jun 2023 23:18

Instrument :

MSVOA_Y

ClientSampleId :

TOTAL-VOC-SB-15-GRAB-6



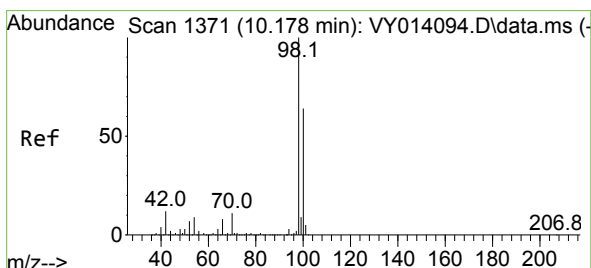
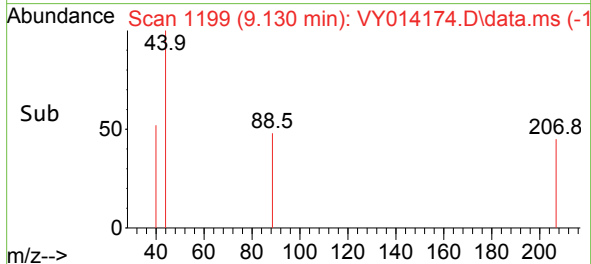
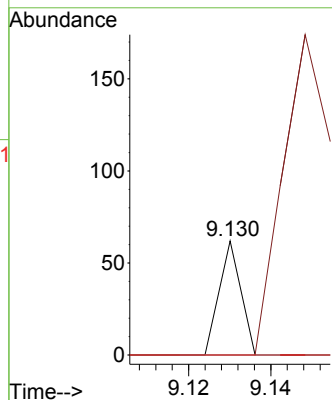
Tgt Ion: 88 Resp: 23

Ion Ratio Lower Upper

88 100

43 995.7 0.0 0.0#

58 0.0 30.9 46.3#



#50

Toluene-d8

Concen: 41.826 ug/l

RT: 10.191 min Scan# 1373

Delta R.T. 0.013 min

Lab File: VY014174.D

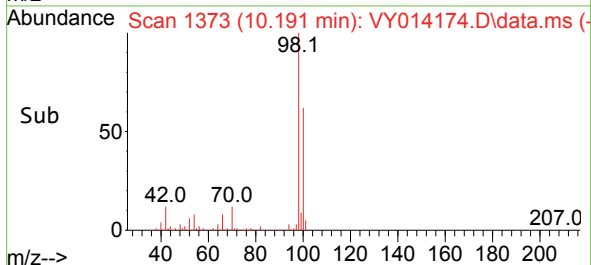
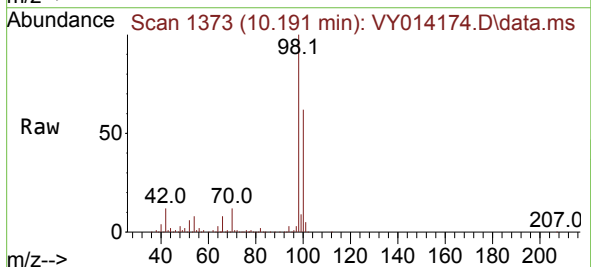
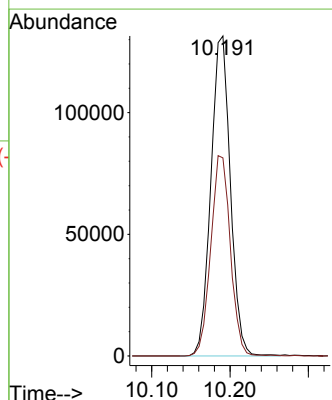
Acq: 14 Jun 2023 23:18

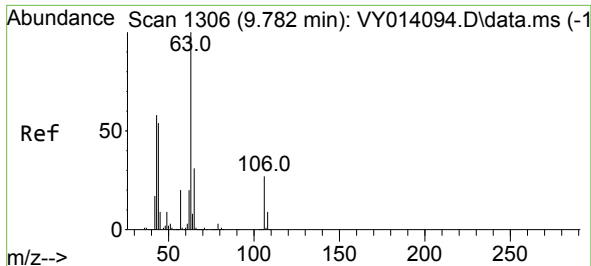
Tgt Ion: 98 Resp: 227306

Ion Ratio Lower Upper

98 100

100 63.0 50.1 75.1

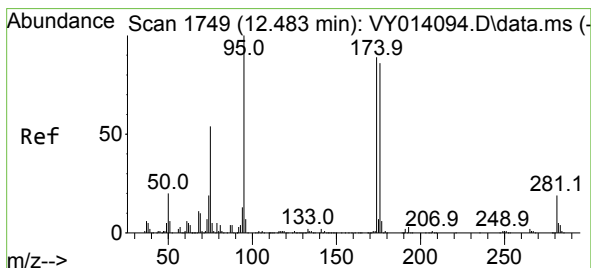
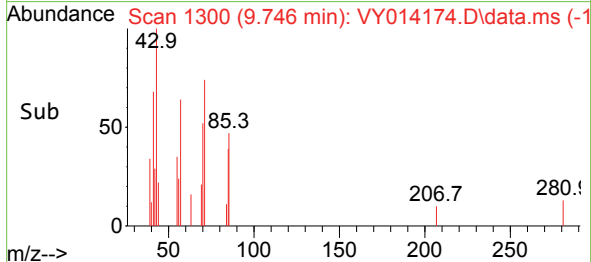
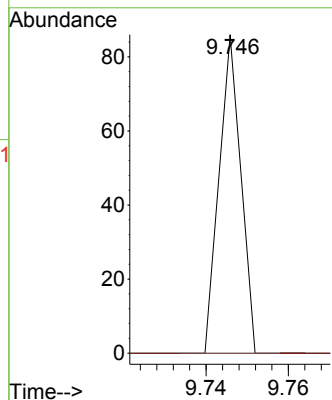
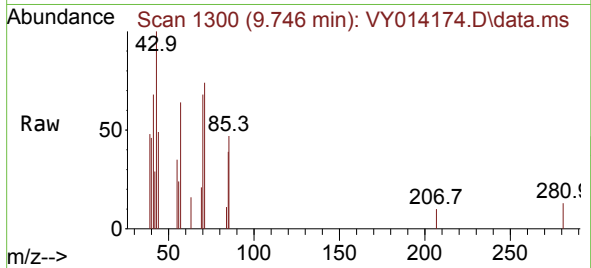




#58
2-Chloroethyl Vinyl ether
Concen: 28.651 ug/l
RT: 9.746 min Scan# 11
Delta R.T. -0.036 min
Lab File: VY014174.D
Acq: 14 Jun 2023 23:18

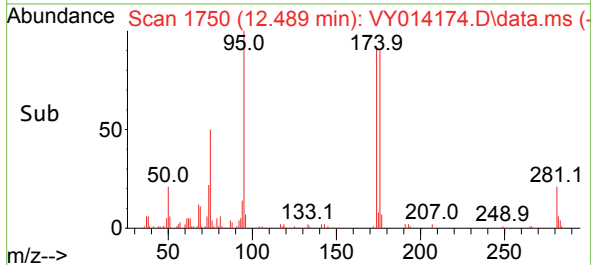
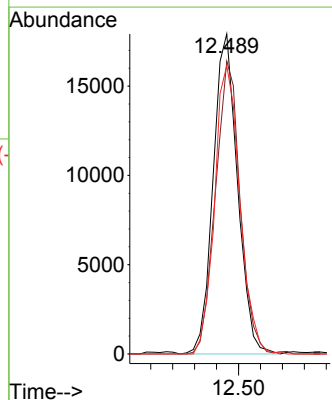
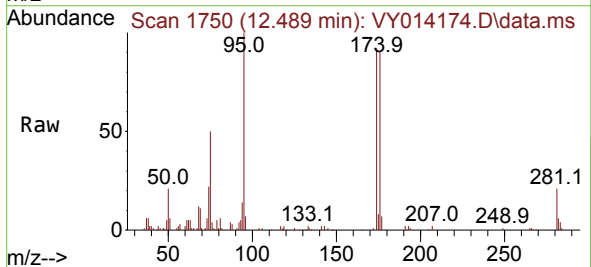
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-SB-15-GRAB-6

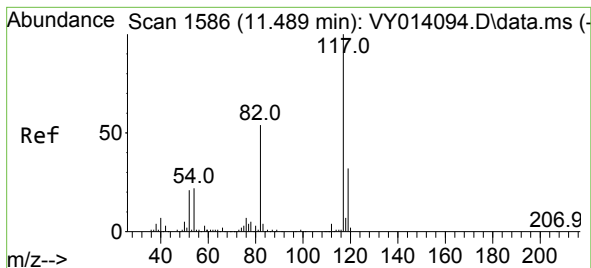
Tgt Ion: 63 Resp: 31
Ion Ratio Lower Upper
63 100
106 0.0 21.2 31.8#



#62
4-Bromofluorobenzene
Concen: 14.305 ug/l
RT: 12.489 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VY014174.D
Acq: 14 Jun 2023 23:18

Tgt Ion: 95 Resp: 27615
Ion Ratio Lower Upper
95 100
174 92.8 0.0 178.2
176 93.5 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.496 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY014174.D

Acq: 14 Jun 2023 23:18

Instrument :

MSVOA_Y

ClientSampleId :

TOTAL-VOC-SB-15-GRAB-6

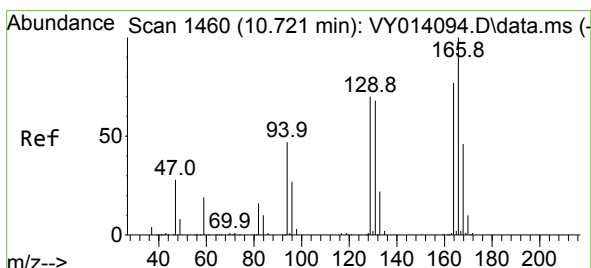
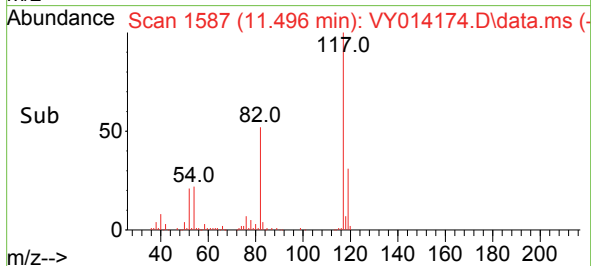
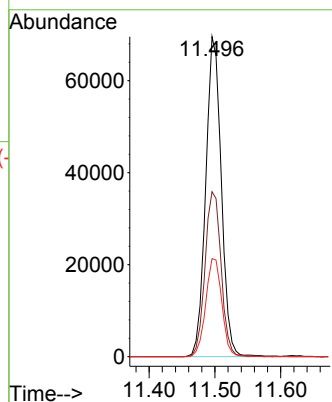
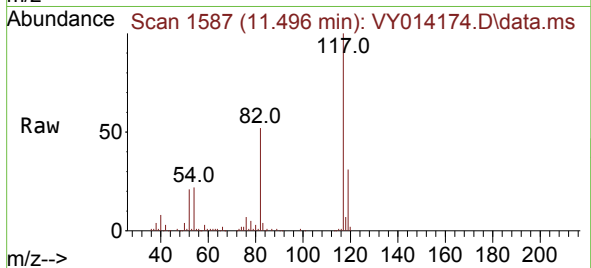
Tgt Ion:117 Resp: 114780

Ion Ratio Lower Upper

117 100

82 51.6 43.4 65.0

119 30.7 26.3 39.5



#64

Tetrachloroethene

Concen: 1.463 ug/l

RT: 10.727 min Scan# 1461

Delta R.T. 0.006 min

Lab File: VY014174.D

Acq: 14 Jun 2023 23:18

Tgt Ion:164 Resp: 1431

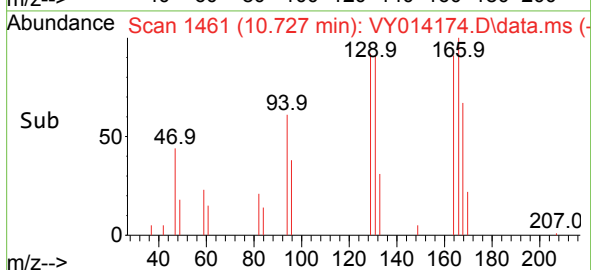
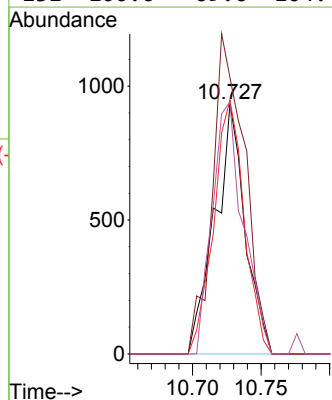
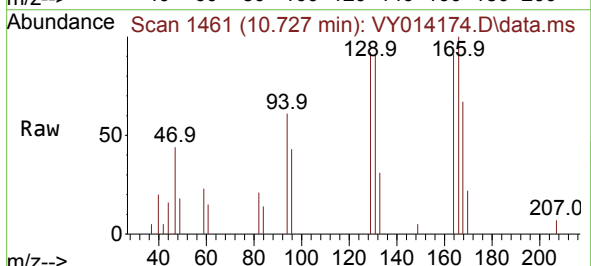
Ion Ratio Lower Upper

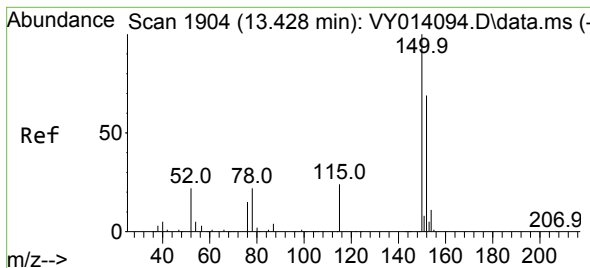
164 100

166 110.4 103.0 154.6

129 101.4 77.2 115.8

131 100.6 69.6 104.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.434 min Scan# 1904

Delta R.T. 0.006 min

Lab File: VY014174.D

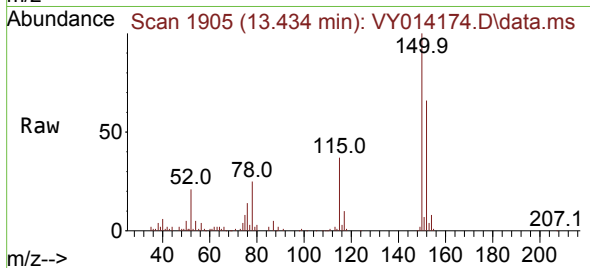
Acq: 14 Jun 2023 23:18

Instrument :

MSVOA_Y

ClientSampleId :

TOTAL-VOC-SB-15-GRAB-6



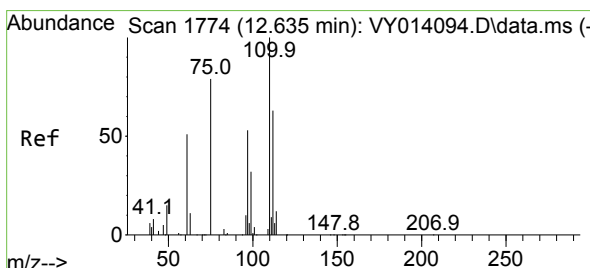
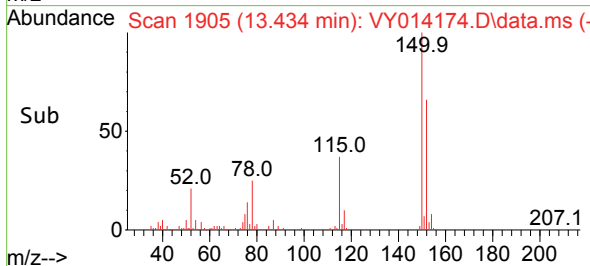
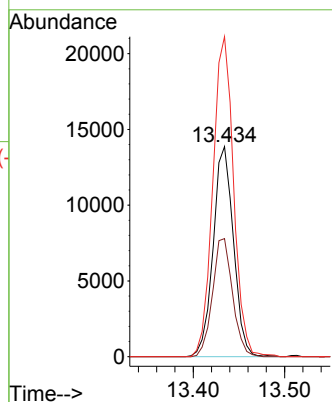
Tgt Ion:152 Resp: 21406

Ion Ratio Lower Upper

152 100

115 55.4 28.8 86.5

150 155.1 0.0 348.8



#76

1,2,3-Trichloropropane

Concen: 50.242 ug/l

RT: 12.489 min Scan# 1750

Delta R.T. -0.146 min

Lab File: VY014174.D

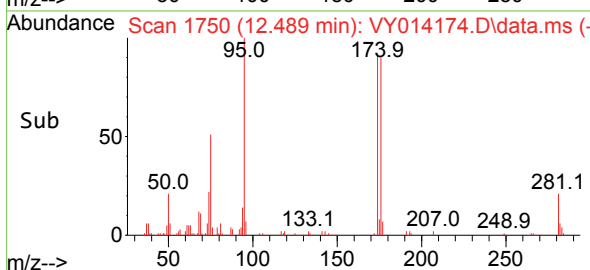
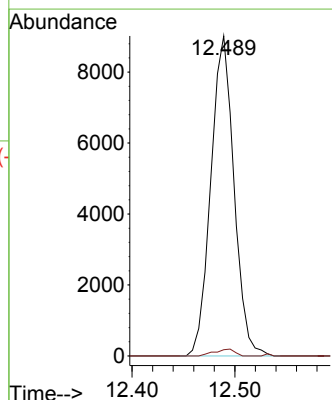
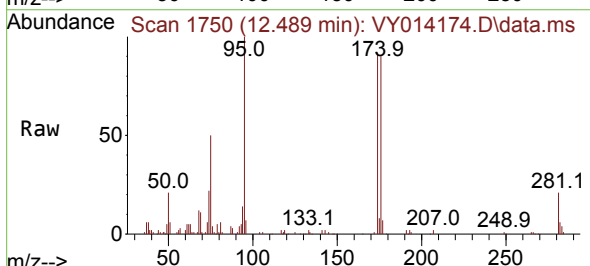
Acq: 14 Jun 2023 23:18

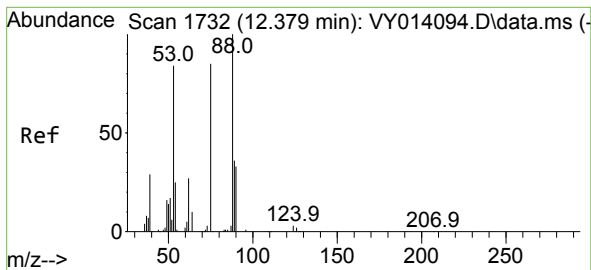
Tgt Ion: 75 Resp: 14110

Ion Ratio Lower Upper

75 100

77 1.9 0.0 0.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 108.603 ug/l
 RT: 12.489 min Scan# 11
 Delta R.T. 0.110 min
 Lab File: VY014174.D
 Acq: 14 Jun 2023 23:18

Instrument :
 MSVOA_Y
 ClientSampleId :
 TOTAL-VOC-SB-15-GRAB-6

Tgt Ion: 75 Resp: 14110
 Ion Ratio Lower Upper
 75 100
 53 0.0 77.8 116.8#
 89 0.0 37.4 56.0#

