

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY061923\
 Data File : VY014238.D
 Acq On : 19 Jun 2023 19:19
 Operator : KP/MD
 Sample : 03255-11
 Misc : 5.01g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TOTAL-VOC-SB-34-GRAB-6

Quant Time: Jun 20 05:00:49 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)

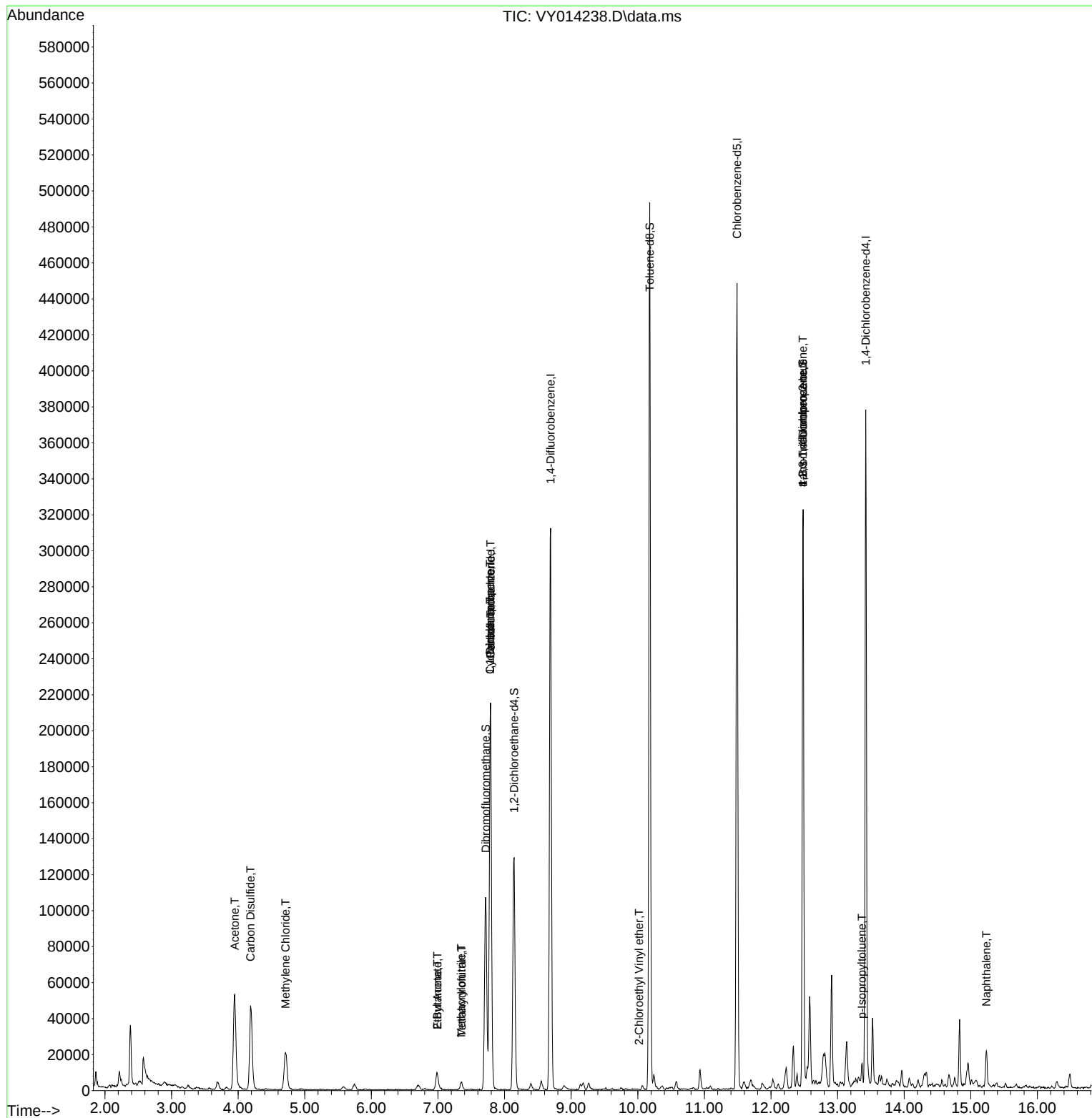
Internal Standards						
1) Pentafluorobenzene	7.789	168	165210	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	260211	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	237050	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	93564	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	106958	46.492	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	92.980%
35) Dibromofluoromethane	7.716	113	72570	39.326	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	78.660%
50) Toluene-d8	10.179	98	309916	44.922	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	89.840%
62) 4-Bromofluorobenzene	12.477	95	90676	36.999	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	74.000%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.942	59	585	Below Cal	#	89
13) Acrolein	3.723	56	279	Below Cal	#	14
16) Acetone	3.948	43	93542	134.891	ug/l	98
17) Carbon Disulfide	4.186	76	92253	15.092	ug/l	99
20) Methylene Chloride	4.710	84	15357	3.610	ug/l	91
25) 2-Butanone	6.990	43	13618	15.953	ug/l	94
29) Tetrahydrofuran	7.356	42	3200	5.912	ug/l	93
31) Cyclohexane	7.783	56	3938	1.278	ug/l #	18
36) 1,1-Dichloropropene	7.783	75	13025	4.527	ug/l #	51
37) Ethyl Acetate	6.990	43	13618	6.860	ug/l #	71
38) Carbon Tetrachloride	7.789	117	16065	4.839	ug/l #	17
41) Methacrylonitrile	7.350	41	2157	2.129	ug/l #	41
58) 2-Chloroethyl Vinyl ether	10.020	63	71	28.677	ug/l #	48
76) 1,2,3-Trichloropropane	12.477	75	49556	40.370	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.477	75	49556	87.265	ug/l #	11
86) p-Isopropyltoluene	13.367	119	6810	1.054	ug/l	94
95) Naphthalene	15.233	128	17760	4.294	ug/l	98

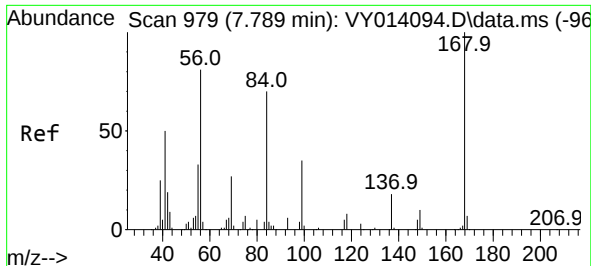
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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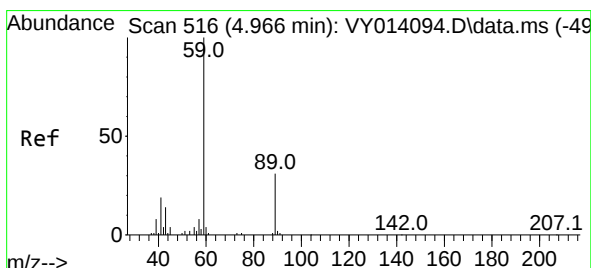
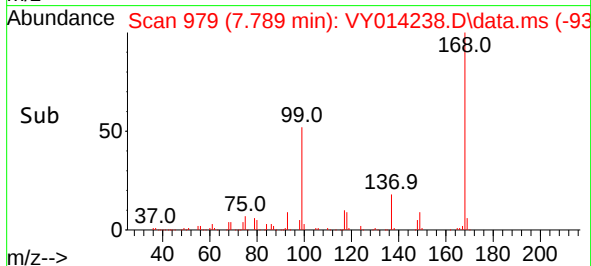
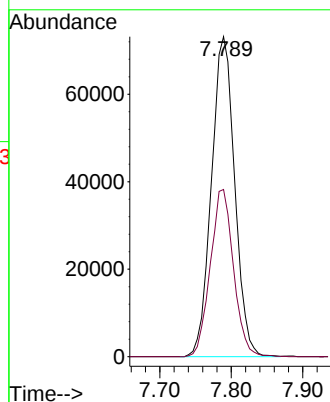
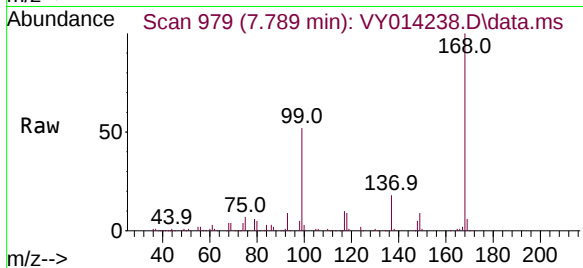




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY014238.D
Acq: 19 Jun 2023 19:19

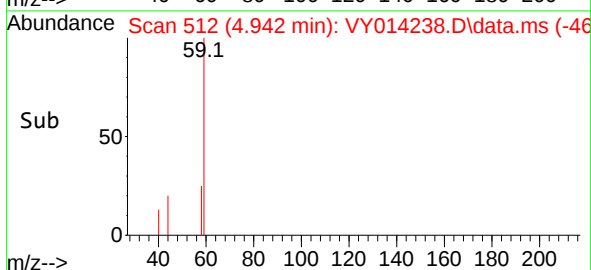
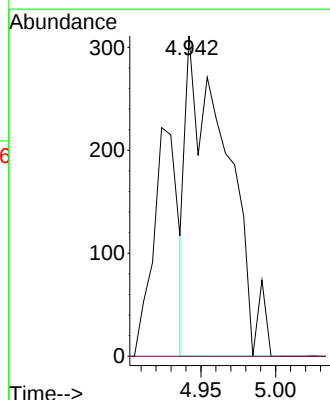
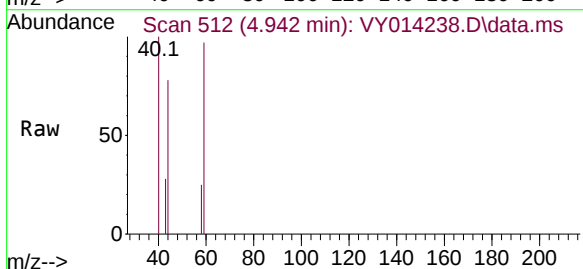
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-SB-34-GRAB-6

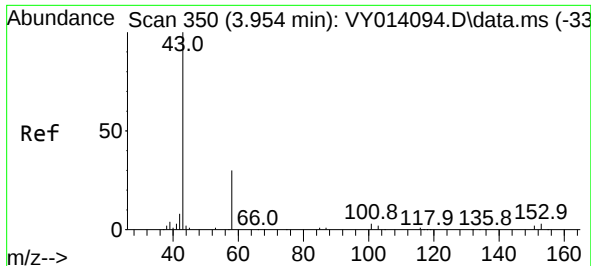
Tgt Ion:168 Resp: 165210
Ion Ratio Lower Upper
168 100
99 52.3 43.4 65.0



#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.942 min Scan# 512
Delta R.T. -0.024 min
Lab File: VY014238.D
Acq: 19 Jun 2023 19:19

Tgt Ion: 59 Resp: 585
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.4#





#16

Acetone

Concen: 134.891 ug/l

RT: 3.948 min Scan# 34

Delta R.T. -0.006 min

Lab File: VY014238.D

Acq: 19 Jun 2023 19:19

Instrument :

MSVOA_Y

ClientSampleId :

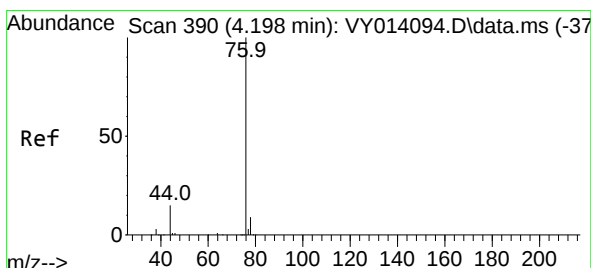
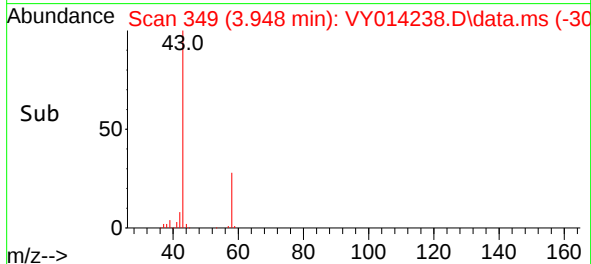
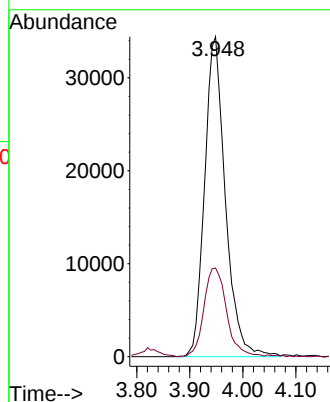
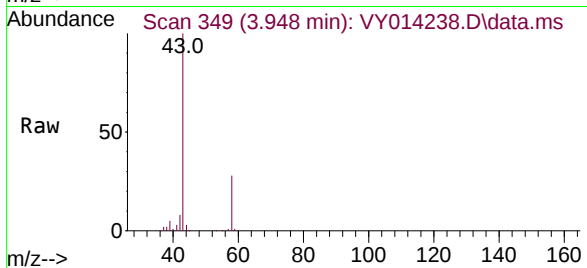
TOTAL-VOC-SB-34-GRAB-6

Tgt Ion: 43 Resp: 93542

Ion Ratio Lower Upper

43 100

58 27.5 22.7 34.1



#17

Carbon Disulfide

Concen: 15.092 ug/l

RT: 4.186 min Scan# 388

Delta R.T. -0.012 min

Lab File: VY014238.D

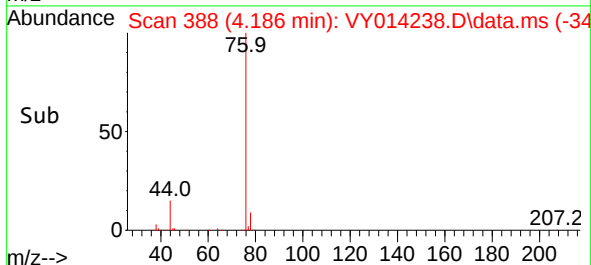
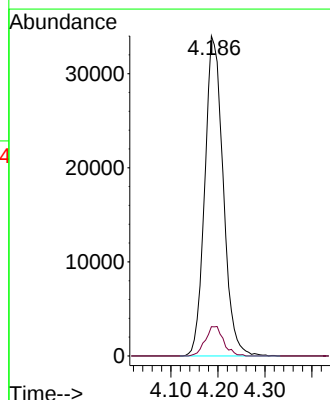
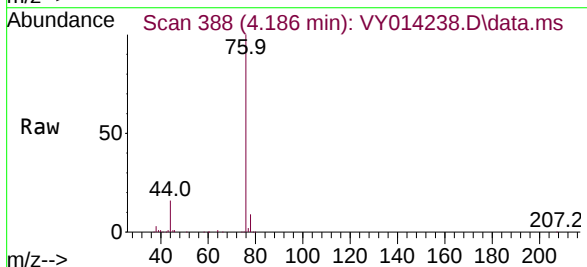
Acq: 19 Jun 2023 19:19

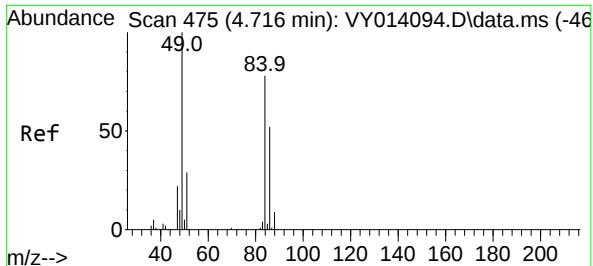
Tgt Ion: 76 Resp: 92253

Ion Ratio Lower Upper

76 100

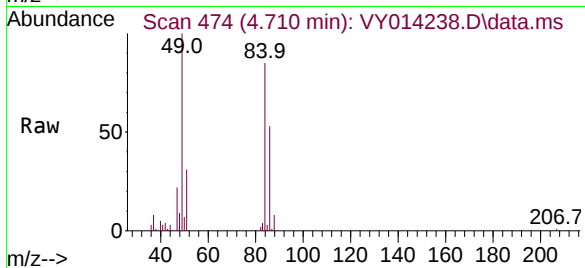
78 9.2 7.0 10.4



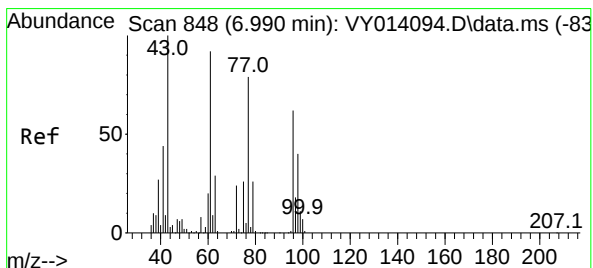
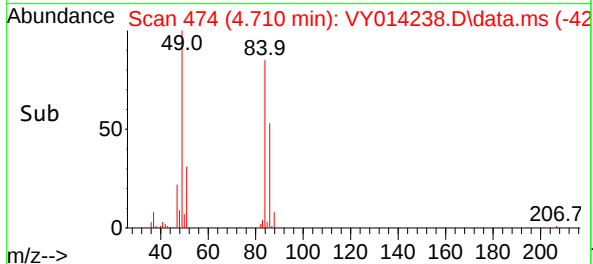
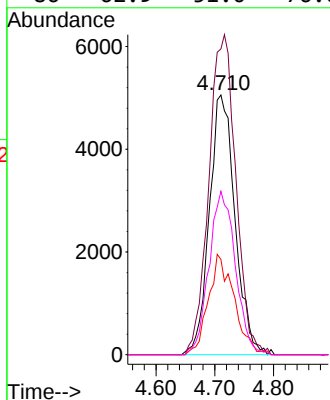


#20
Methylene Chloride
Concen: 3.610 ug/l
RT: 4.710 min Scan# 41
Delta R.T. -0.006 min
Lab File: VY014238.D
Acq: 19 Jun 2023 19:19

Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-SB-34-GRAB-6

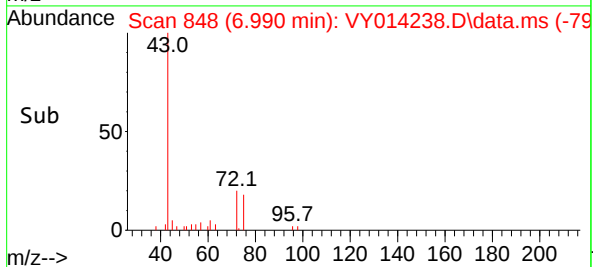
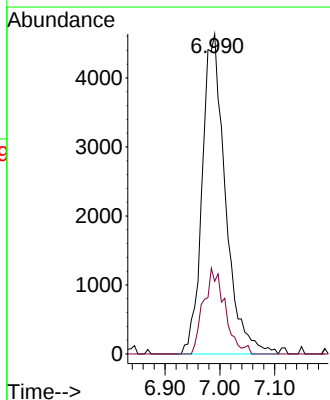
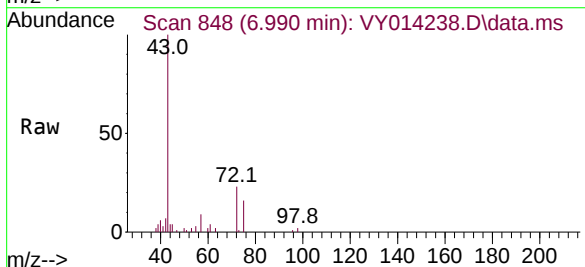


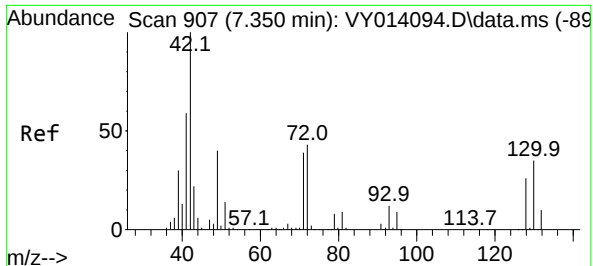
Tgt Ion:	84	Resp:	15357
Ion	Ratio	Lower	Upper
84	100		
49	117.7	106.9	160.3
51	36.6	33.2	49.8
86	62.9	51.0	76.6



#25
2-Butanone
Concen: 15.953 ug/l
RT: 6.990 min Scan# 848
Delta R.T. 0.000 min
Lab File: VY014238.D
Acq: 19 Jun 2023 19:19

Tgt Ion:	43	Resp:	13618
Ion	Ratio	Lower	Upper
43	100		
72	22.7	20.5	30.7





#29

Tetrahydrofuran

Concen: 5.912 ug/l

RT: 7.356 min Scan# 907

Delta R.T. 0.006 min

Lab File: VY014238.D

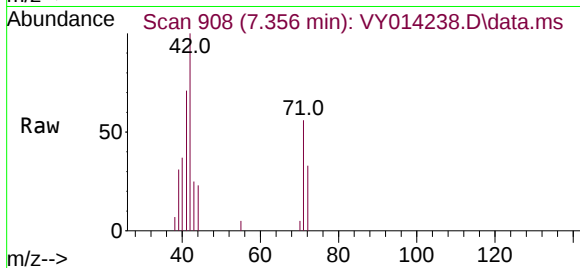
Acq: 19 Jun 2023 19:19

Instrument :

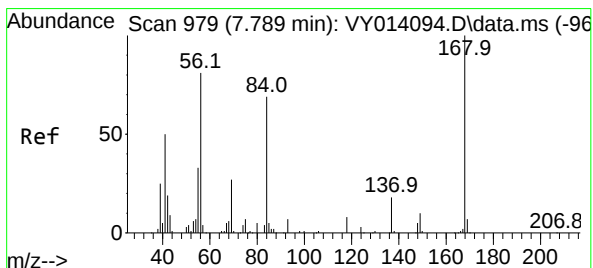
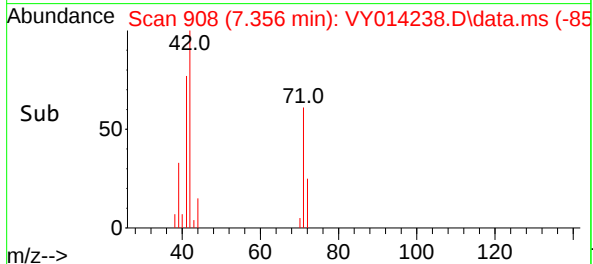
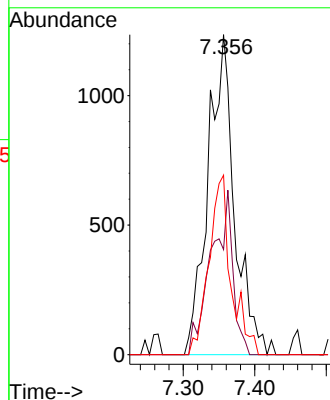
MSVOA_Y

ClientSampleId :

TOTAL-VOC-SB-34-GRAB-6



Tgt Ion:	42	Resp:	3200
Ion	Ratio	Lower	Upper
42	100		
72	41.5	32.8	49.2
71	46.4	31.0	46.4



#31

Cyclohexane

Concen: 1.278 ug/l

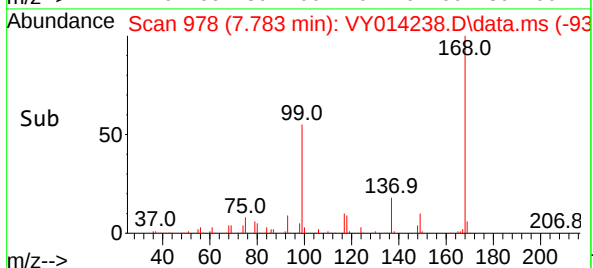
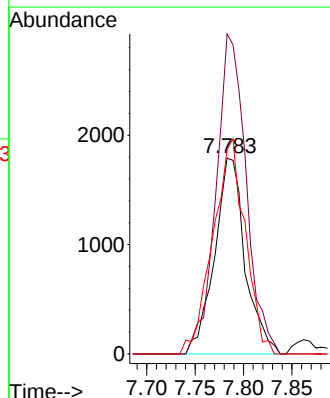
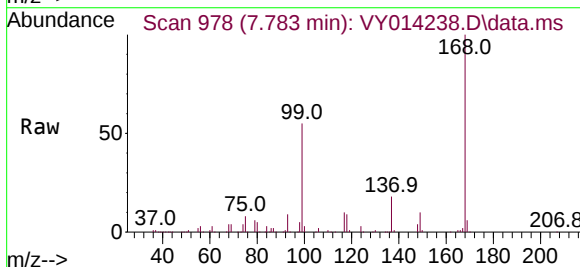
RT: 7.783 min Scan# 978

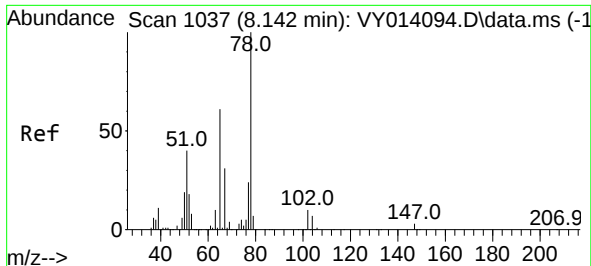
Delta R.T. -0.006 min

Lab File: VY014238.D

Acq: 19 Jun 2023 19:19

Tgt Ion:	56	Resp:	3938
Ion	Ratio	Lower	Upper
56	100		
69	163.5	27.8	41.6#
84	104.5	66.4	99.6#

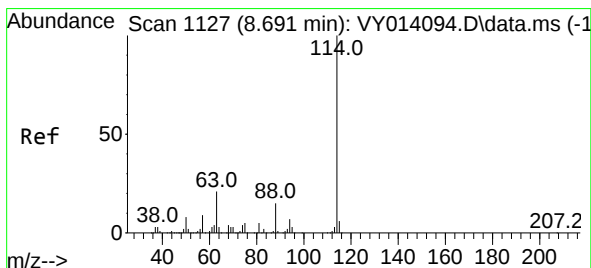
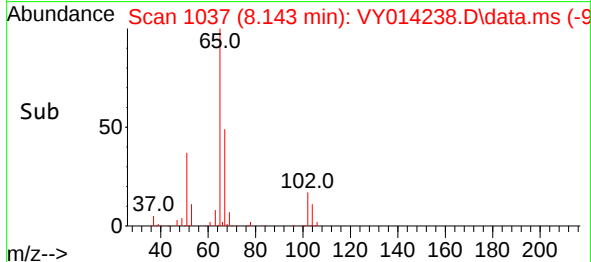
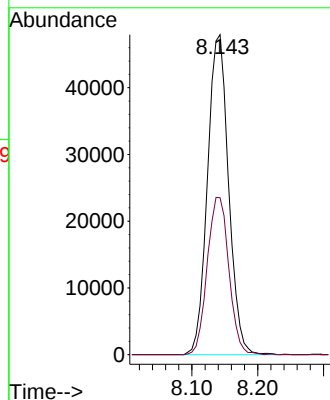
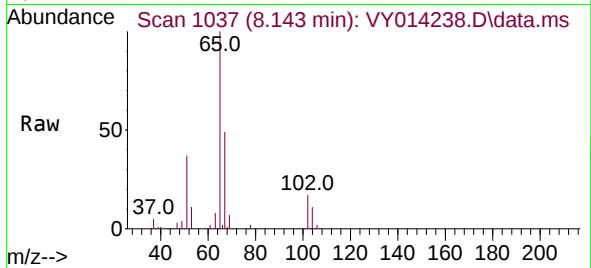




#33
 1,2-Dichloroethane-d4
 Concen: 46.492 ug/l
 RT: 8.143 min Scan# 1037
 Delta R.T. 0.001 min
 Lab File: VY014238.D
 Acq: 19 Jun 2023 19:19

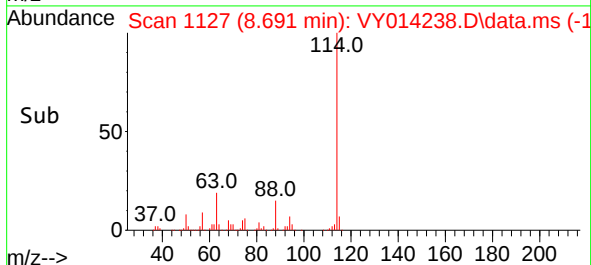
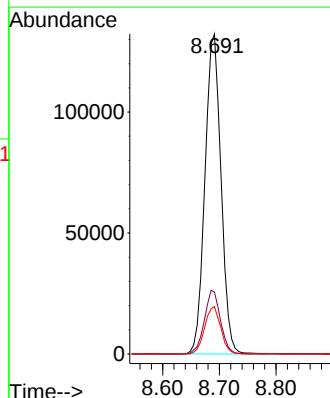
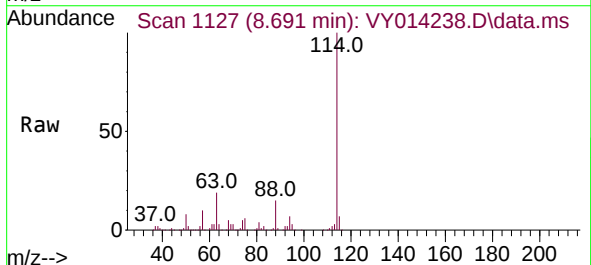
Instrument :
 MSVOA_Y
 ClientSampleId :
 TOTAL-VOC-SB-34-GRAB-6

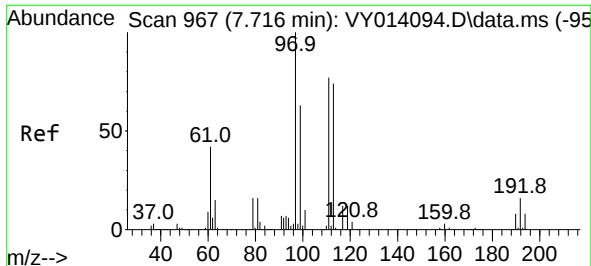
Tgt Ion: 65 Resp: 106958
 Ion Ratio Lower Upper
 65 100
 67 50.4 0.0 101.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.691 min Scan# 1127
 Delta R.T. 0.000 min
 Lab File: VY014238.D
 Acq: 19 Jun 2023 19:19

Tgt Ion: 114 Resp: 260211
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 42.4
 88 14.8 0.0 30.6

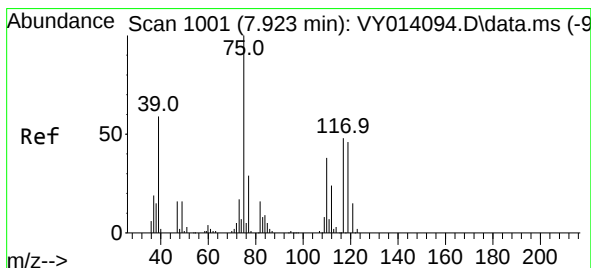
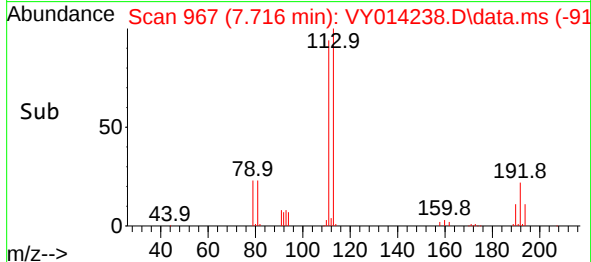
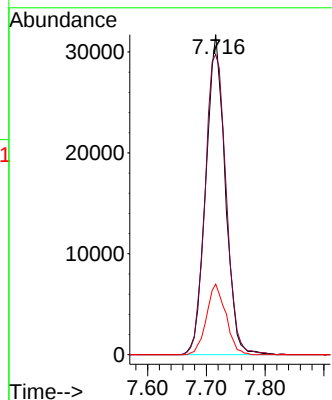
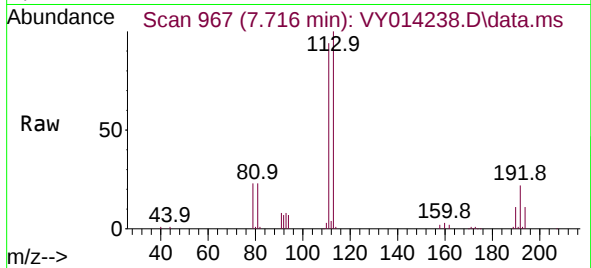




#35
Dibromofluoromethane
Concen: 39.326 ug/l
RT: 7.716 min Scan# 911
Delta R.T. -0.000 min
Lab File: VY014238.D
Acq: 19 Jun 2023 19:19

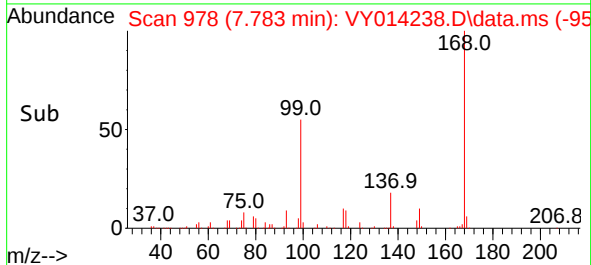
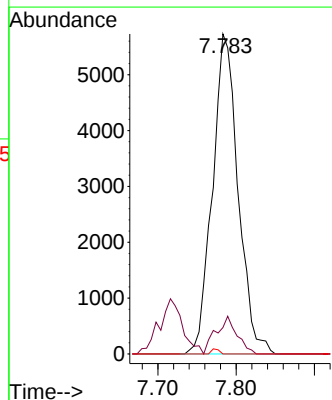
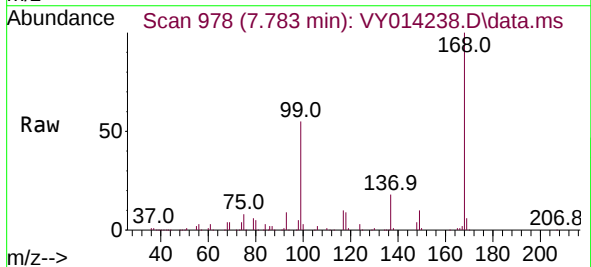
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-SB-34-GRAB-6

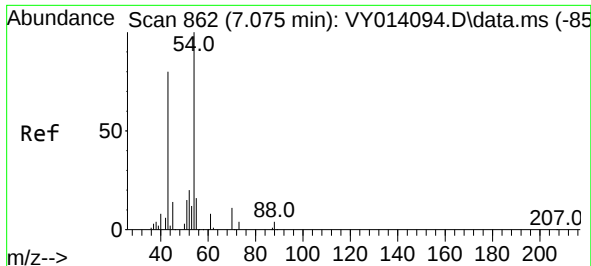
Tgt Ion:113 Resp: 72570
Ion Ratio Lower Upper
113 100
111 102.0 81.3 121.9
192 22.1 16.9 25.3



#36
1,1-Dichloropropene
Concen: 4.527 ug/l
RT: 7.783 min Scan# 978
Delta R.T. -0.140 min
Lab File: VY014238.D
Acq: 19 Jun 2023 19:19

Tgt Ion: 75 Resp: 13025
Ion Ratio Lower Upper
75 100
110 9.6 17.8 53.5#
77 0.5 24.4 36.6#





#37

Ethyl Acetate

Concen: 6.860 ug/l

RT: 6.990 min Scan# 84

Delta R.T. -0.085 min

Lab File: VY014238.D

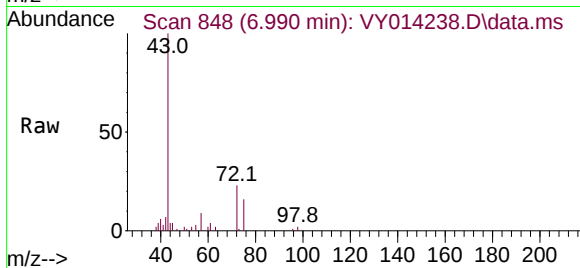
Acq: 19 Jun 2023 19:19

Instrument :

MSVOA_Y

ClientSampleId :

TOTAL-VOC-SB-34-GRAB-6



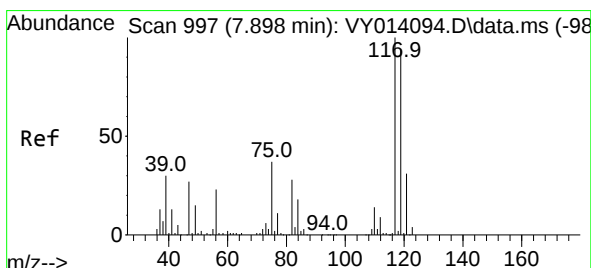
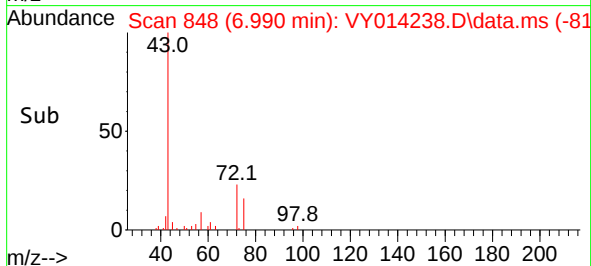
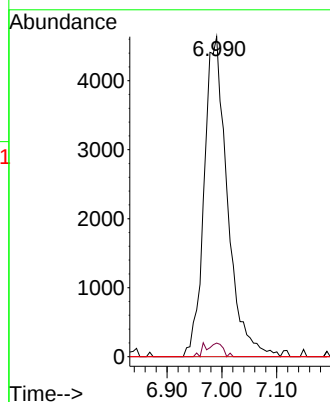
Tgt Ion: 43 Resp: 13618

Ion Ratio Lower Upper

43 100

61 0.0 10.1 15.1#

70 0.0 7.1 10.7#



#38

Carbon Tetrachloride

Concen: 4.839 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.109 min

Lab File: VY014238.D

Acq: 19 Jun 2023 19:19

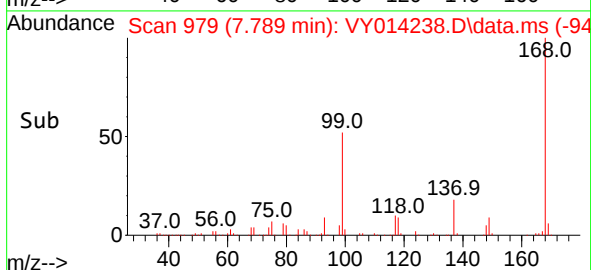
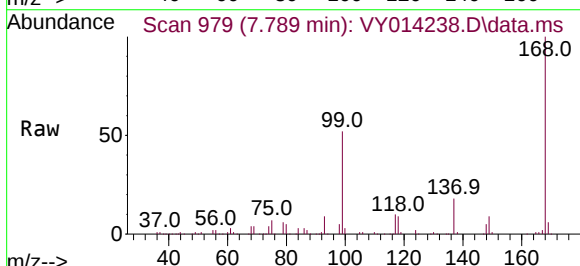
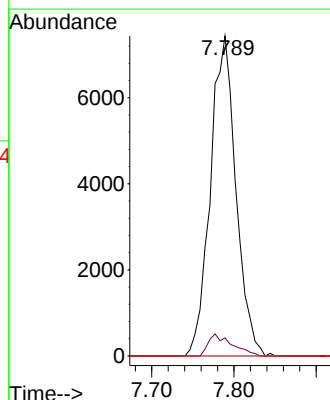
Tgt Ion: 117 Resp: 16065

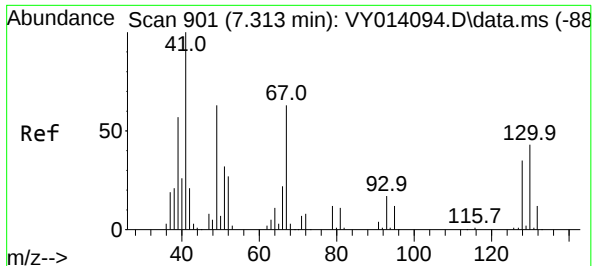
Ion Ratio Lower Upper

117 100

119 5.7 76.4 114.6#

121 0.0 25.8 38.6#

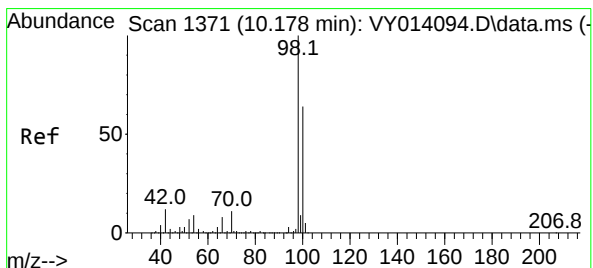
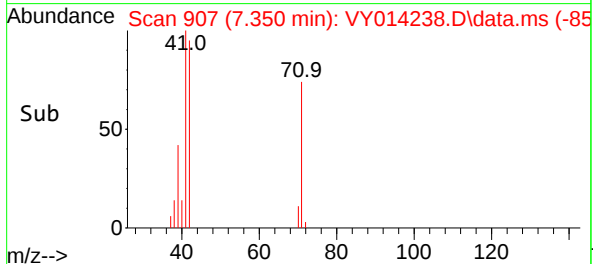
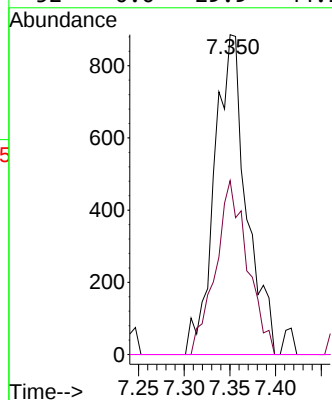
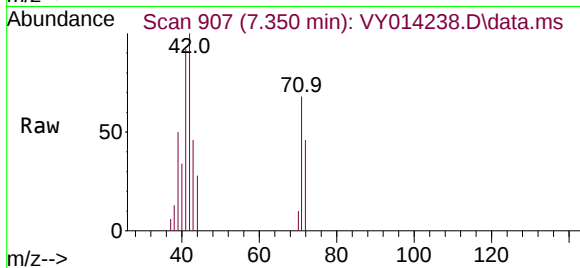




#41
Methacrylonitrile
Concen: 2.129 ug/l
RT: 7.350 min Scan# 901
Delta R.T. 0.037 min
Lab File: VY014238.D
Acq: 19 Jun 2023 19:19

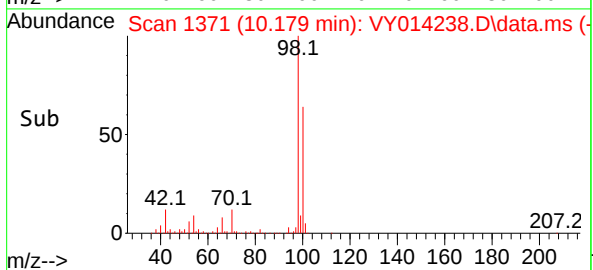
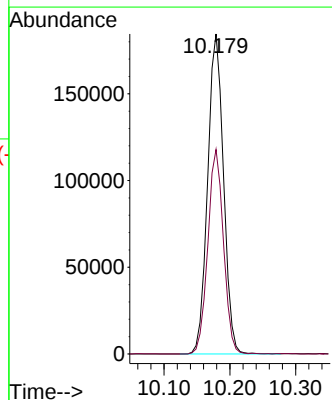
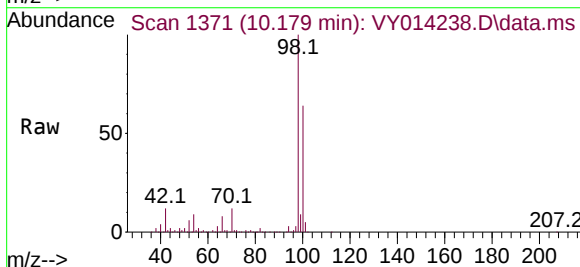
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-SB-34-GRAB-6

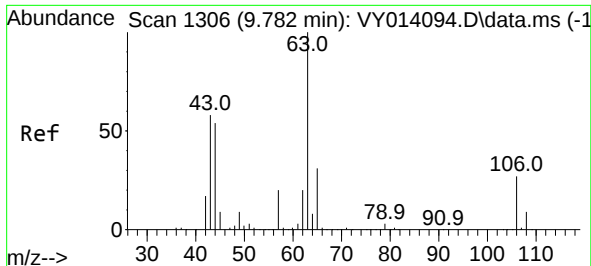
Tgt Ion: 41	Resp: 2157
Ion Ratio	Lower Upper
41	100
39	54.2 52.1 78.1
67	0.0 66.2 99.2#
52	0.0 29.9 44.9#



#50
Toluene-d8
Concen: 44.922 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. 0.001 min
Lab File: VY014238.D
Acq: 19 Jun 2023 19:19

Tgt Ion: 98	Resp: 309916
Ion Ratio	Lower Upper
98	100
100	62.9 50.1 75.1

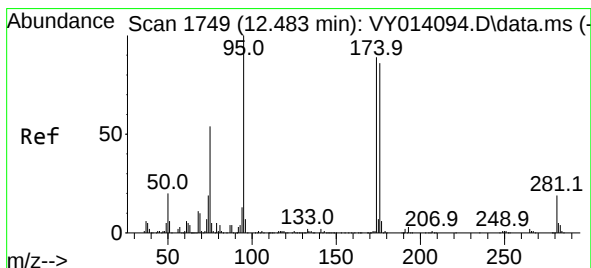
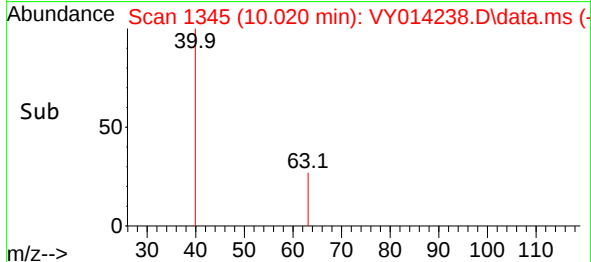
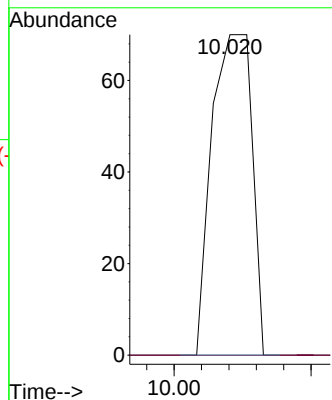
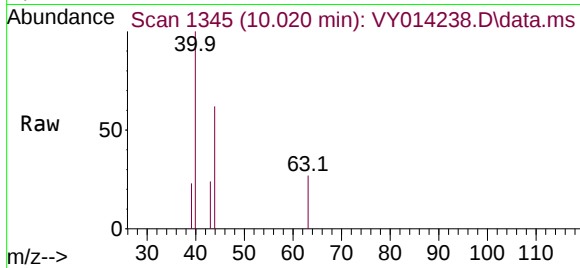




#58
2-Chloroethyl Vinyl ether
Concen: 28.677 ug/l
RT: 10.020 min Scan# 11
Delta R.T. 0.238 min
Lab File: VY014238.D
Acq: 19 Jun 2023 19:19

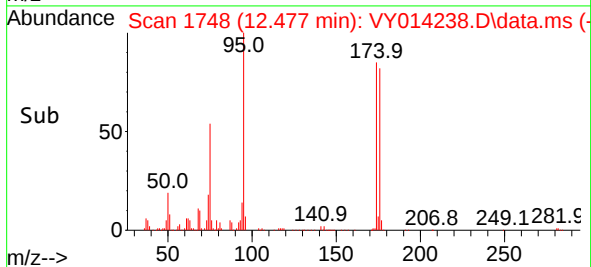
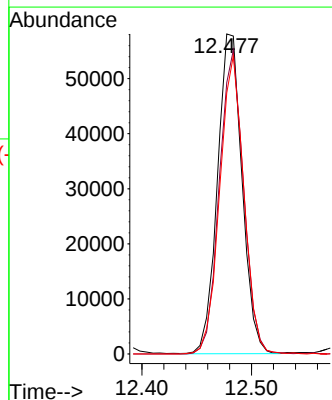
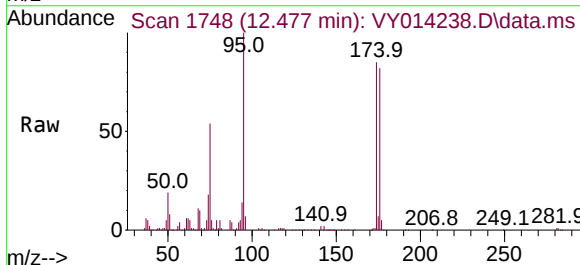
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-SB-34-GRAB-6

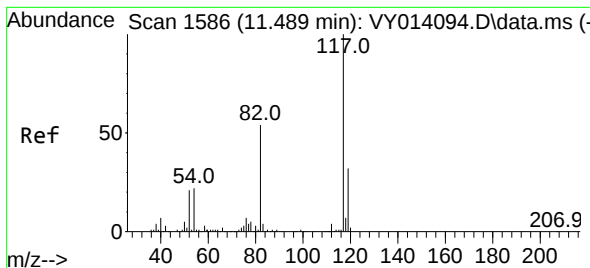
Tgt Ion: 63 Resp: 71
Ion Ratio Lower Upper
63 100
106 0.0 21.2 31.8#



#62
4-Bromofluorobenzene
Concen: 36.999 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.006 min
Lab File: VY014238.D
Acq: 19 Jun 2023 19:19

Tgt Ion: 95 Resp: 90676
Ion Ratio Lower Upper
95 100
174 93.3 0.0 178.2
176 91.1 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.490 min Scan# 11

Delta R.T. 0.001 min

Lab File: VY014238.D

Acq: 19 Jun 2023 19:19

Instrument :

MSVOA_Y

ClientSampleId :

TOTAL-VOC-SB-34-GRAB-6

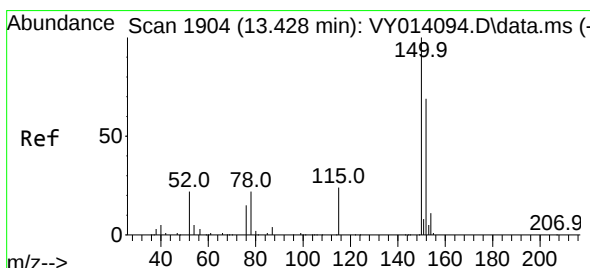
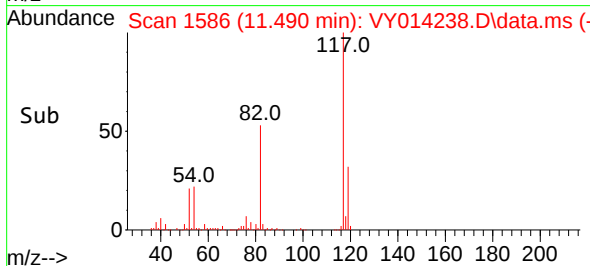
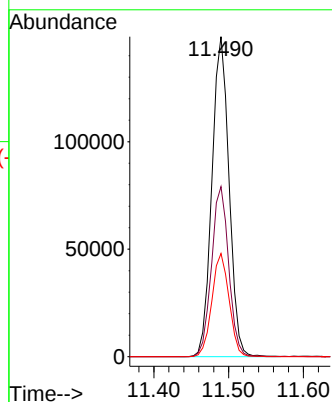
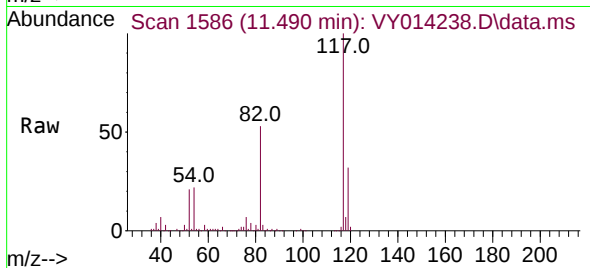
Tgt Ion:117 Resp: 237050

Ion Ratio Lower Upper

117 100

82 53.2 43.4 65.0

119 32.3 26.3 39.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. -0.006 min

Lab File: VY014238.D

Acq: 19 Jun 2023 19:19

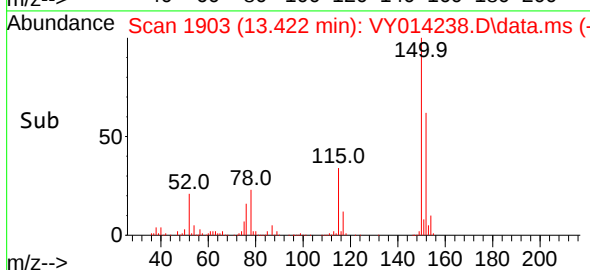
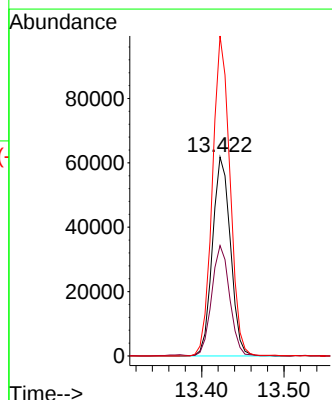
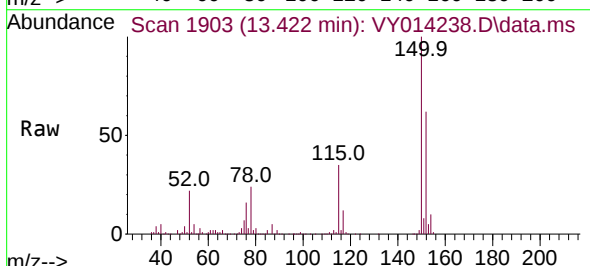
Tgt Ion:152 Resp: 93564

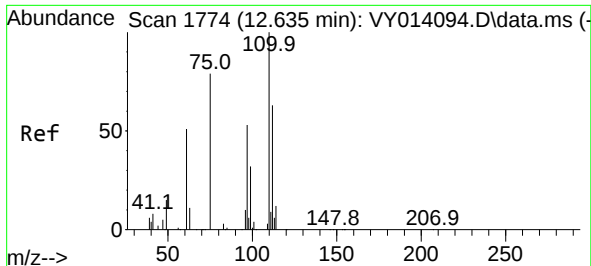
Ion Ratio Lower Upper

152 100

115 55.0 28.8 86.5

150 157.4 0.0 348.8

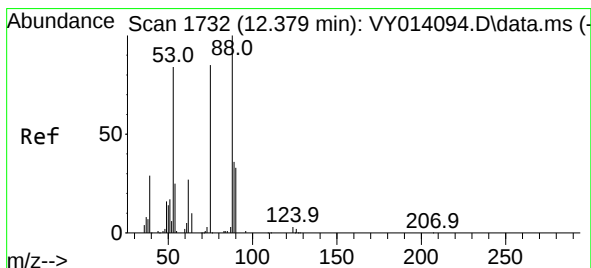
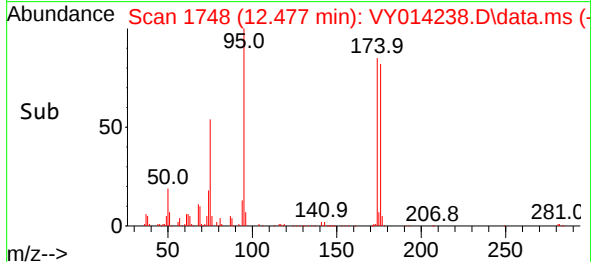
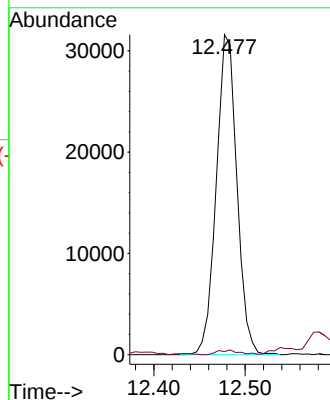
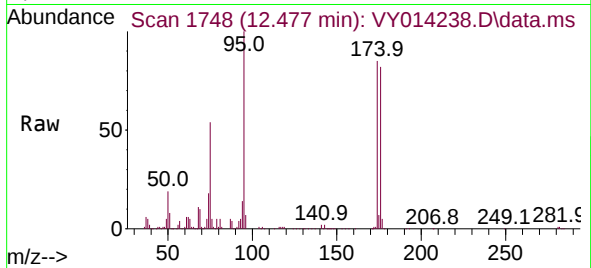




#76
1,2,3-Trichloropropane
Concen: 40.370 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.158 min
Lab File: VY014238.D
Acq: 19 Jun 2023 19:19

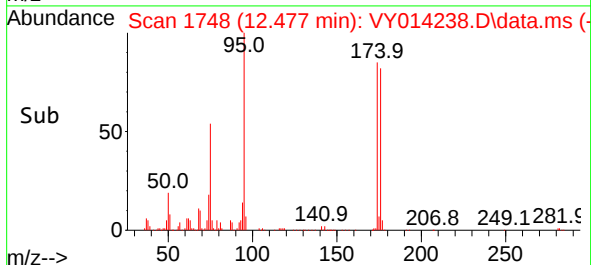
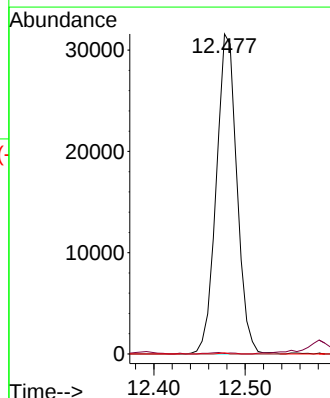
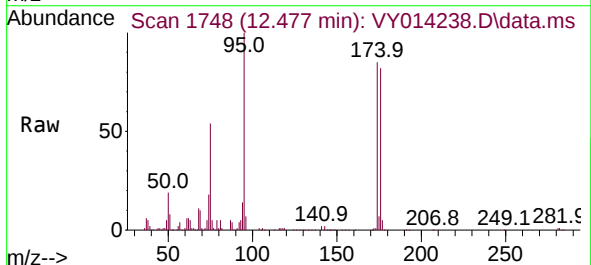
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-SB-34-GRAB-6

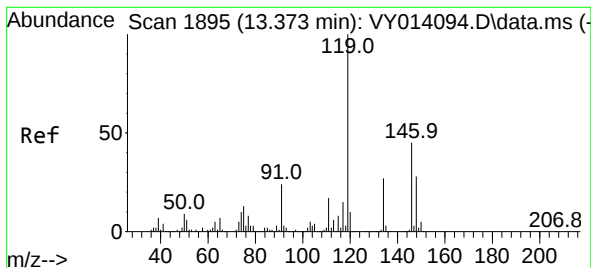
Tgt Ion: 75 Resp: 49556
Ion Ratio Lower Upper
75 100
77 1.5 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 87.265 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.098 min
Lab File: VY014238.D
Acq: 19 Jun 2023 19:19

Tgt Ion: 75 Resp: 49556
Ion Ratio Lower Upper
75 100
53 0.4 77.8 116.8#
89 0.1 37.4 56.0#





#86

p-Isopropyltoluene

Concen: 1.054 ug/l

RT: 13.367 min Scan# 1894

Delta R.T. -0.006 min

Lab File: VY014238.D

Acq: 19 Jun 2023 19:19

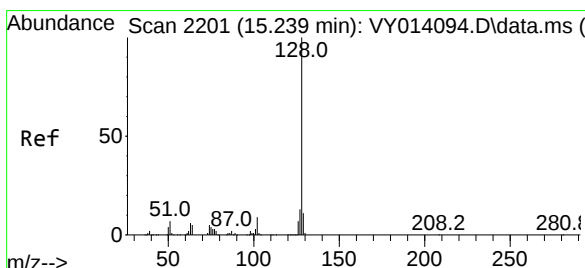
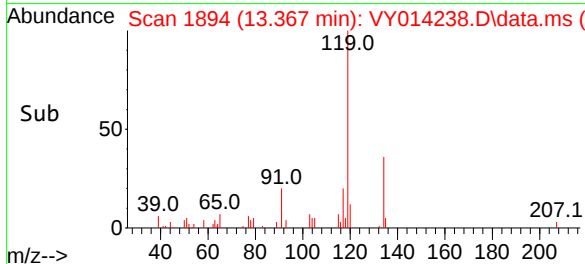
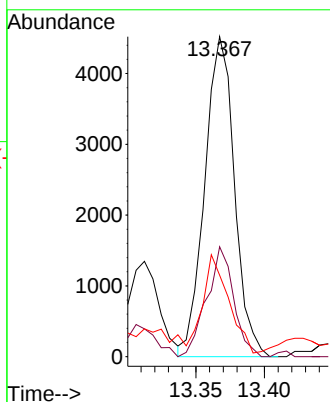
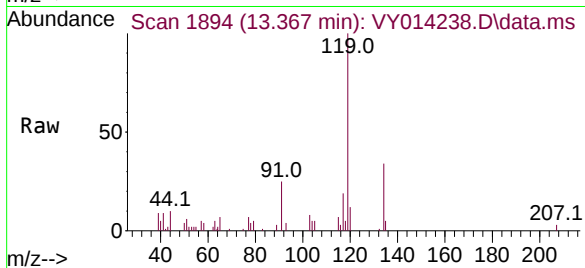
Instrument :

MSVOA_Y

ClientSampleId :

TOTAL-VOC-SB-34-GRAB-6

Tgt Ion:	119	Resp:	6810
Ion	Ratio	Lower	Upper
119	100		
134	31.1	13.3	39.8
91	26.8	12.4	37.4



#95

Naphthalene

Concen: 4.294 ug/l

RT: 15.233 min Scan# 2200

Delta R.T. -0.006 min

Lab File: VY014238.D

Acq: 19 Jun 2023 19:19

Tgt Ion:	128	Resp:	17760
Ion	Ratio	Lower	Upper
128	100		
127	13.8	10.8	16.2
129	11.9	8.6	13.0

