

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020823\
 Data File : VY012537.D
 Acq On : 08 Feb 2023 13:05
 Operator : KP/MD
 Sample : 01465-05
 Misc : 2.21g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TOT-VOC-GRAB-4

Quant Time: Feb 09 07:13:37 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020723S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 08 01:09:03 2023
 Response via : Initial Calibration

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

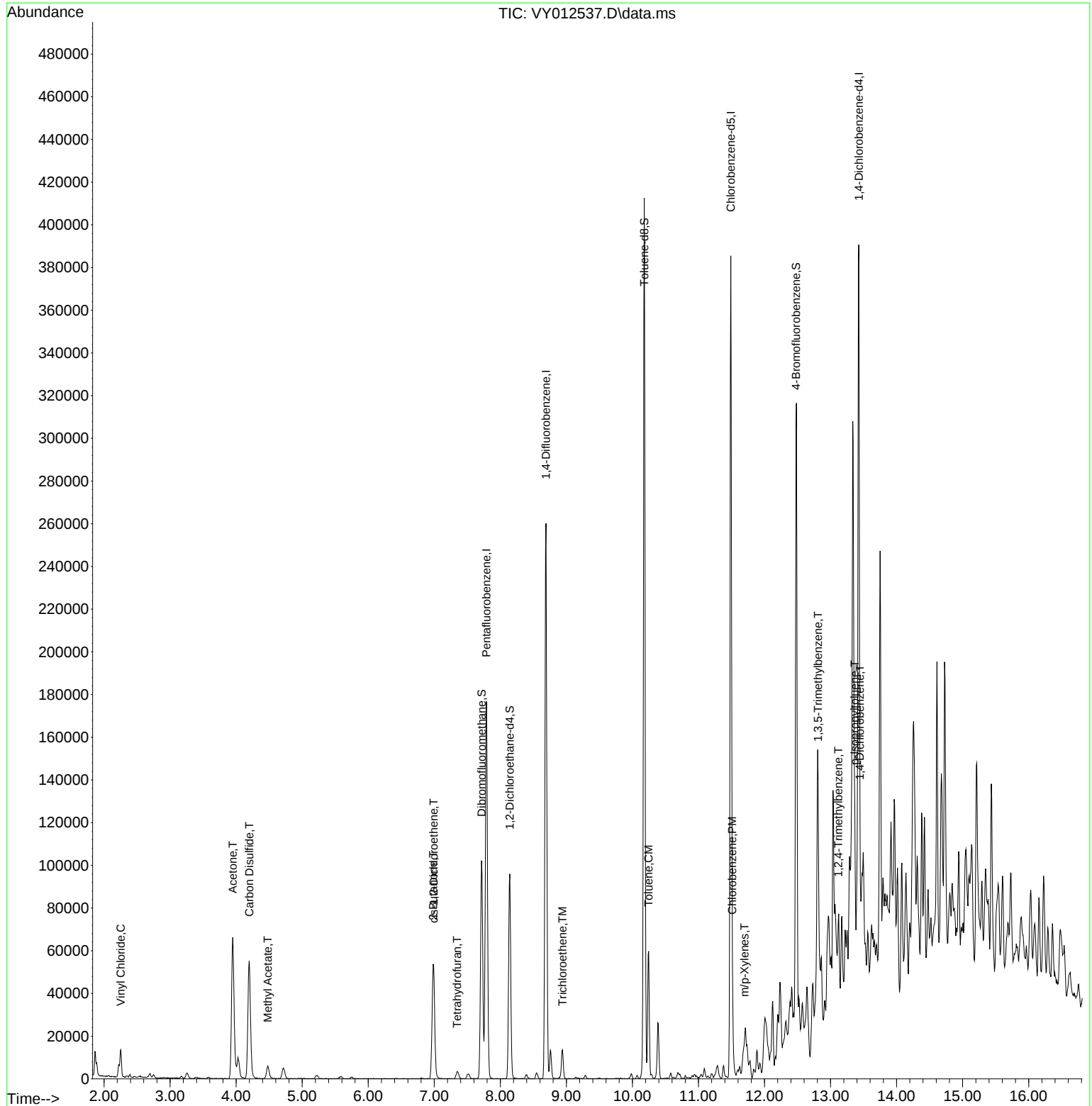
Internal Standards						
1) Pentafluorobenzene	7.789	168	141669	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	233724	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	215401	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	87458	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	81254	45.104	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	90.200%
35) Dibromofluoromethane	7.716	113	68993	40.534	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	81.060%
50) Toluene-d8	10.179	98	269846	38.089	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	=	76.180%
62) 4-Bromofluorobenzene	12.477	95	88764	35.920	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	71.840%
Target Compounds						
					Qvalue	
4) Vinyl Chloride	2.253	62	10477	7.619	ug/l	98
16) Acetone	3.948	43	111941	258.171	ug/l	98
17) Carbon Disulfide	4.198	76	110619	30.239	ug/l	100
18) Methyl Acetate	4.479	43	10566	10.138	ug/l	98
25) 2-Butanone	6.984	43	19461	40.453	ug/l	94
27) cis-1,2-Dichloroethene	6.990	96	29084	16.294	ug/l	87
29) Tetrahydrofuran	7.344	42	2422	9.313	ug/l	96
44) Trichloroethene	8.941	130	5084	2.455	ug/l	100
52) Toluene	10.246	92	25806	5.593	ug/l	99
65) Chlorobenzene	11.514	112	13428	2.628	ug/l	99
68) m/p-Xylenes	11.697	106	3625	1.013	ug/l	95
80) 1,3,5-Trimethylbenzene	12.812	105	7569	1.243	ug/l	97
84) 1,2,4-Trimethylbenzene	13.117	105	19197	3.203	ug/l	99
86) p-Isopropyltoluene	13.367	119	20229	3.051	ug/l #	76
88) 1,4-Dichlorobenzene	13.446	146	10173	2.976	ug/l #	72

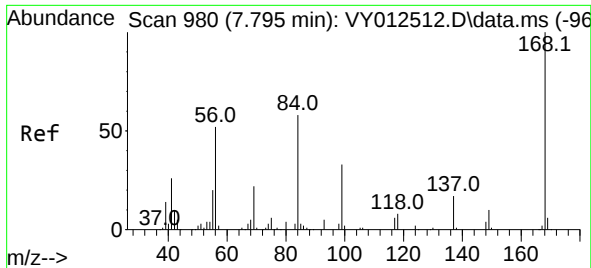
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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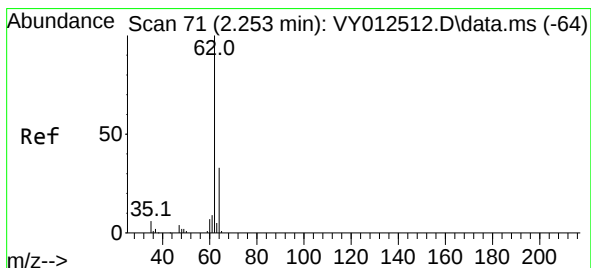
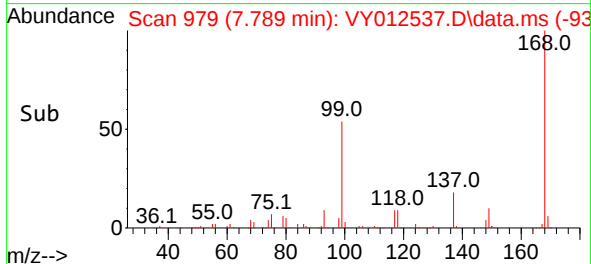
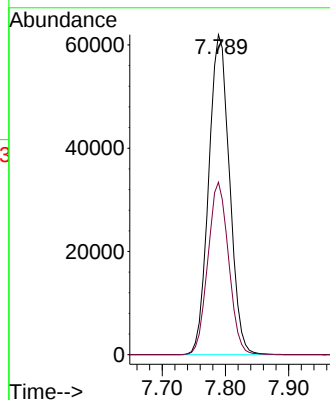
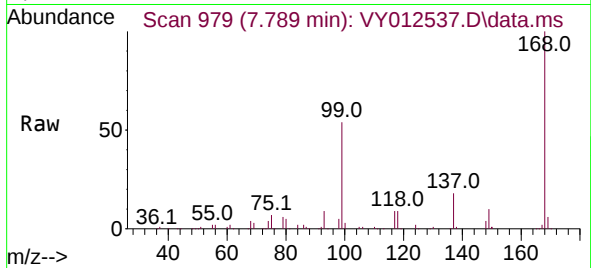




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY012537.D
Acq: 08 Feb 2023 13:05

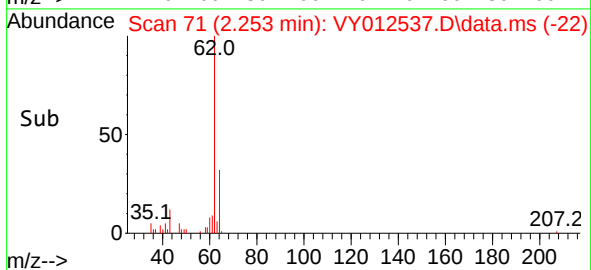
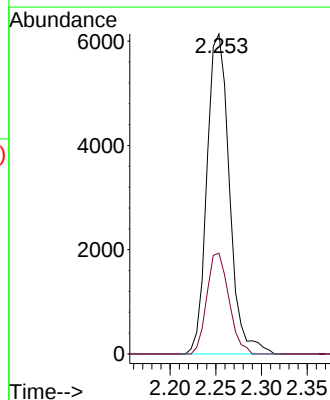
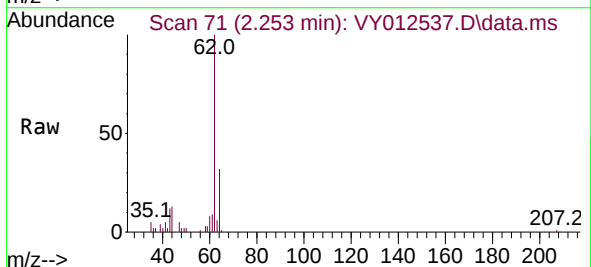
Instrument :
MSVOA_Y
ClientSampleId :
TOT-VOC-GRAB-4

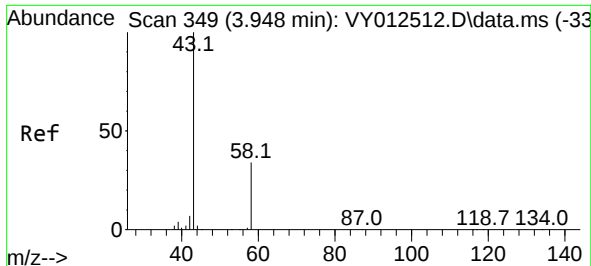
Tgt Ion:168 Resp: 141669
Ion Ratio Lower Upper
168 100
99 53.9 40.8 61.2



#4
Vinyl Chloride
Concen: 7.619 ug/l
RT: 2.253 min Scan# 71
Delta R.T. 0.000 min
Lab File: VY012537.D
Acq: 08 Feb 2023 13:05

Tgt Ion: 62 Resp: 10477
Ion Ratio Lower Upper
62 100
64 31.5 26.1 39.1

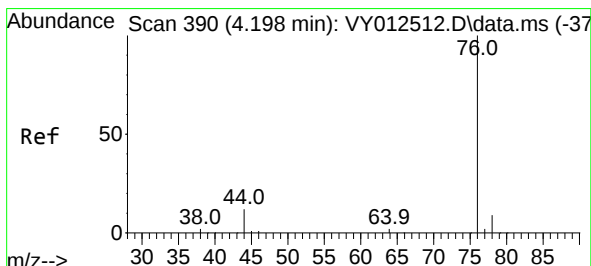
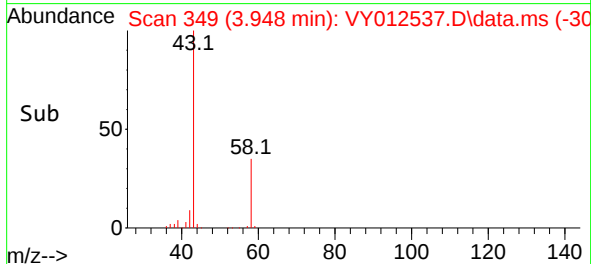
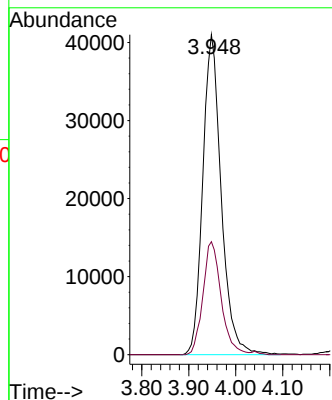
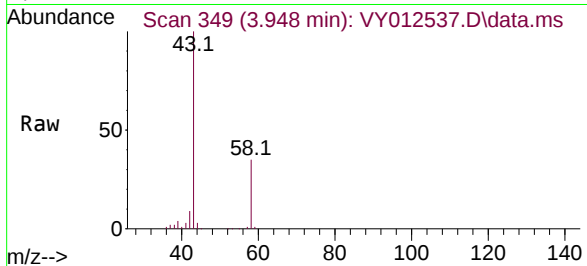




#16
Acetone
Concen: 258.171 ug/l
RT: 3.948 min Scan# 349
Delta R.T. 0.000 min
Lab File: VY012537.D
Acq: 08 Feb 2023 13:05

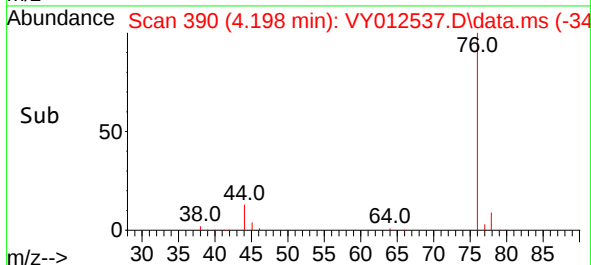
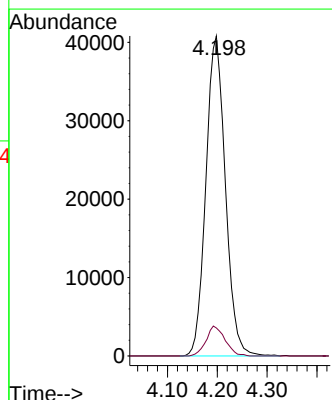
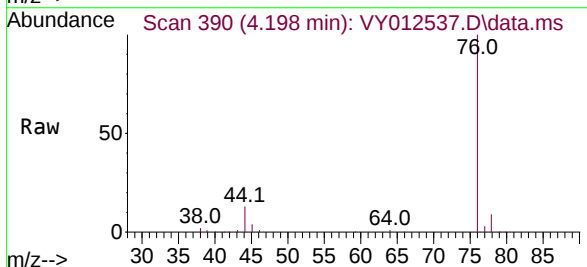
Instrument :
MSVOA_Y
ClientSampleId :
TOT-VOC-GRAB-4

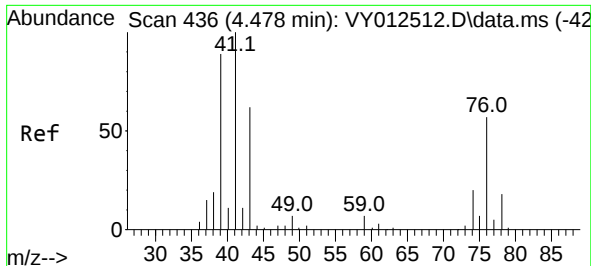
Tgt Ion: 43 Resp: 111941
Ion Ratio Lower Upper
43 100
58 35.3 27.1 40.7



#17
Carbon Disulfide
Concen: 30.239 ug/l
RT: 4.198 min Scan# 390
Delta R.T. 0.000 min
Lab File: VY012537.D
Acq: 08 Feb 2023 13:05

Tgt Ion: 76 Resp: 110619
Ion Ratio Lower Upper
76 100
78 8.7 6.9 10.3

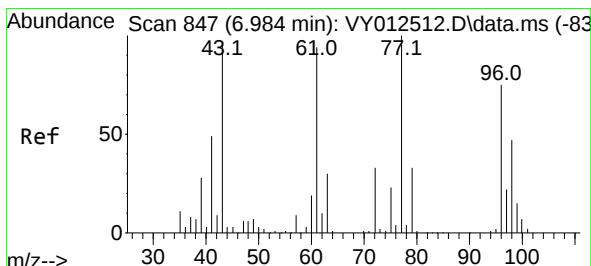
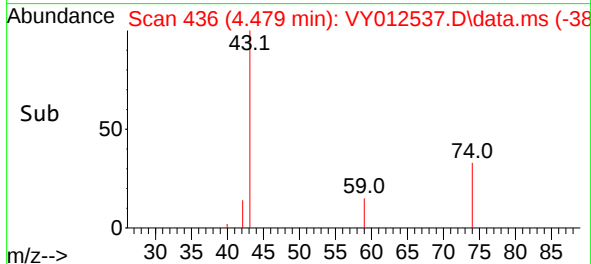
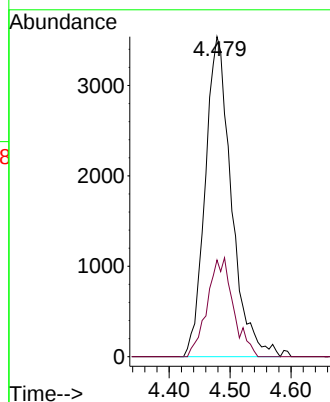
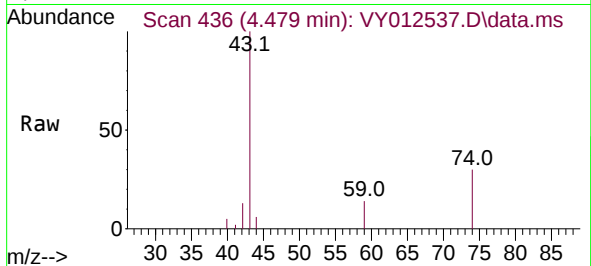




#18
Methyl Acetate
Concen: 10.138 ug/l
RT: 4.479 min Scan# 41
Delta R.T. 0.000 min
Lab File: VY012537.D
Acq: 08 Feb 2023 13:05

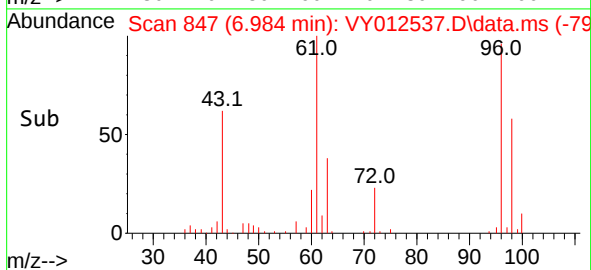
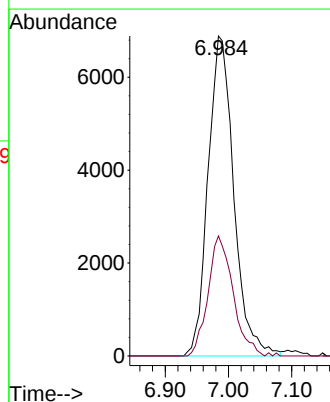
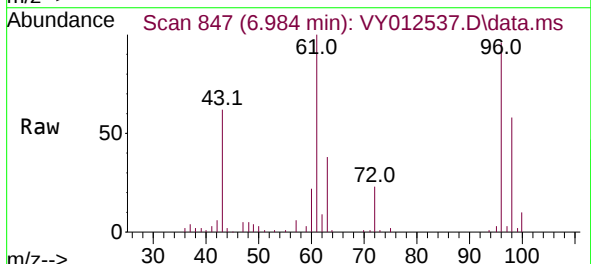
Instrument :
MSVOA_Y
ClientSampleId :
TOT-VOC-GRAB-4

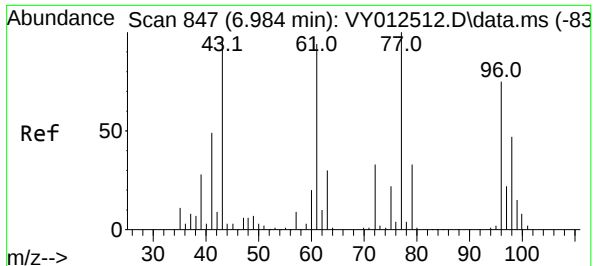
Tgt Ion: 43 Resp: 10566
Ion Ratio Lower Upper
43 100
74 30.6 25.6 38.4



#25
2-Butanone
Concen: 40.453 ug/l
RT: 6.984 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY012537.D
Acq: 08 Feb 2023 13:05

Tgt Ion: 43 Resp: 19461
Ion Ratio Lower Upper
43 100
72 37.5 27.4 41.2





#27

cis-1,2-Dichloroethene

Concen: 16.294 ug/l

RT: 6.990 min Scan# 847

Delta R.T. 0.006 min

Lab File: VY012537.D

Acq: 08 Feb 2023 13:05

Instrument :

MSVOA_Y

ClientSampleId :

TOT-VOC-GRAB-4

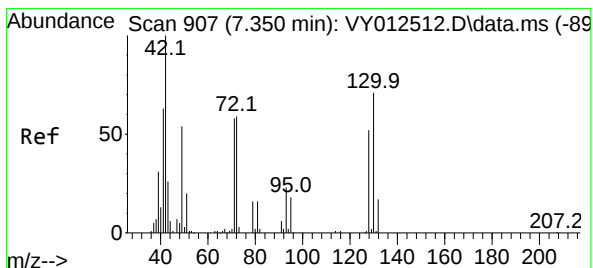
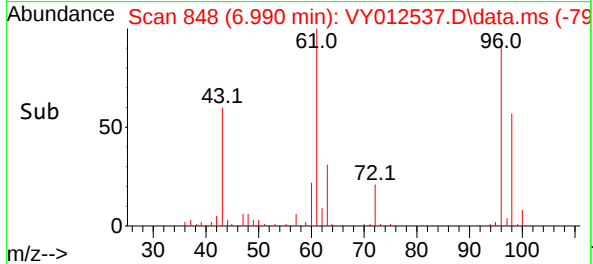
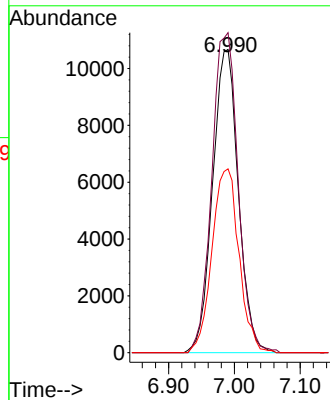
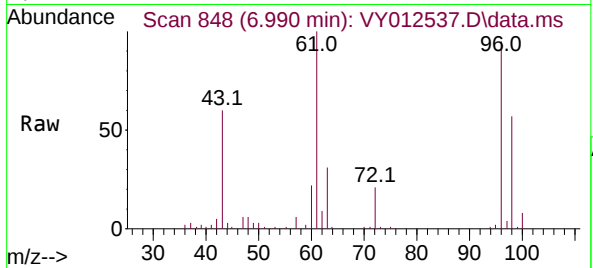
Tgt Ion: 96 Resp: 29084

Ion Ratio Lower Upper

96 100

61 107.9 0.0 259.2

98 63.5 0.0 129.0



#29

Tetrahydrofuran

Concen: 9.313 ug/l

RT: 7.344 min Scan# 906

Delta R.T. -0.006 min

Lab File: VY012537.D

Acq: 08 Feb 2023 13:05

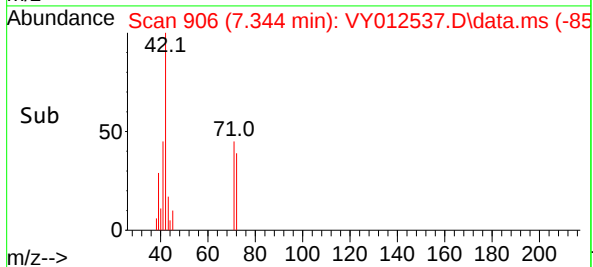
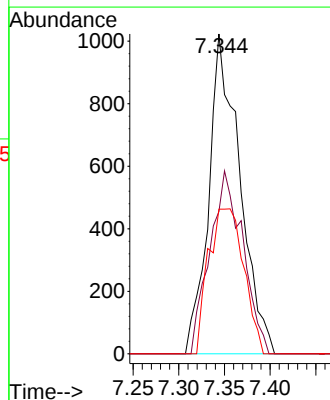
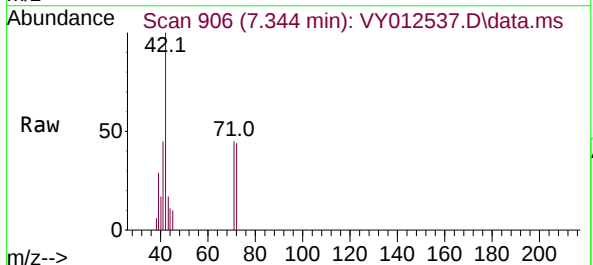
Tgt Ion: 42 Resp: 2422

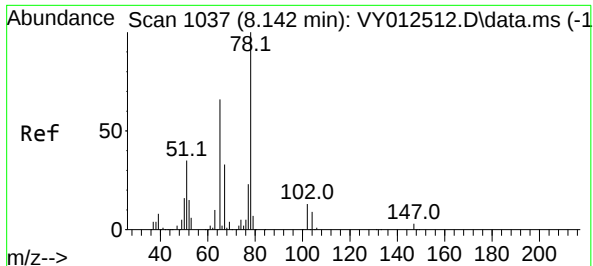
Ion Ratio Lower Upper

42 100

72 60.8 47.0 70.6

71 51.7 44.6 66.8





#33

1,2-Dichloroethane-d4

Concen: 45.104 ug/l

RT: 8.143 min Scan# 1037

Delta R.T. 0.000 min

Lab File: VY012537.D

Acq: 08 Feb 2023 13:05

Instrument :

MSVOA_Y

ClientSampleId :

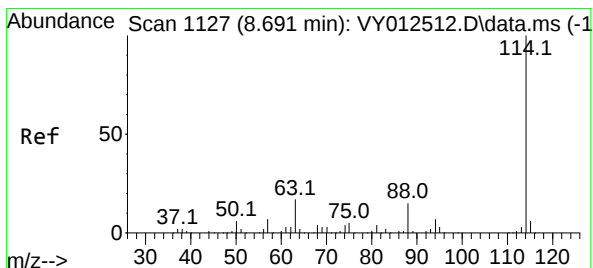
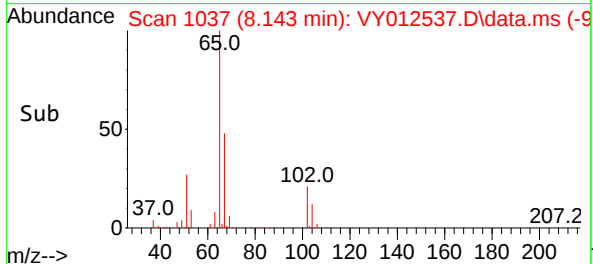
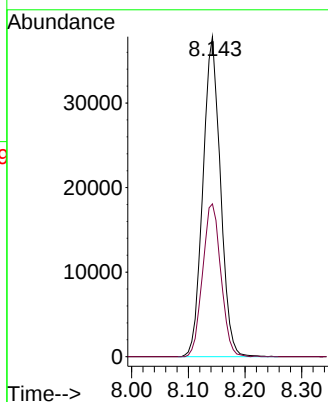
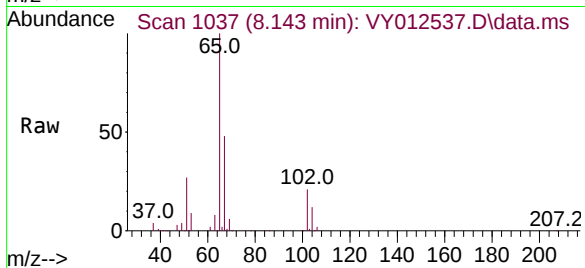
TOT-VOC-GRAB-4

Tgt Ion: 65 Resp: 81254

Ion Ratio Lower Upper

65 100

67 49.7 0.0 98.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VY012537.D

Acq: 08 Feb 2023 13:05

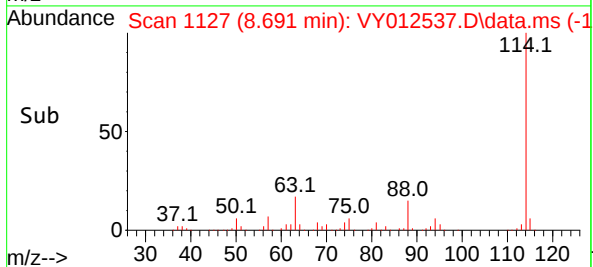
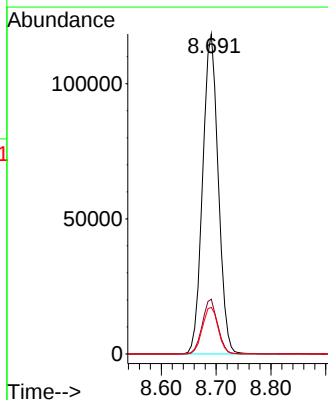
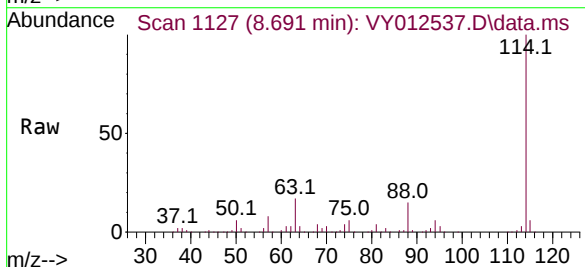
Tgt Ion: 114 Resp: 233724

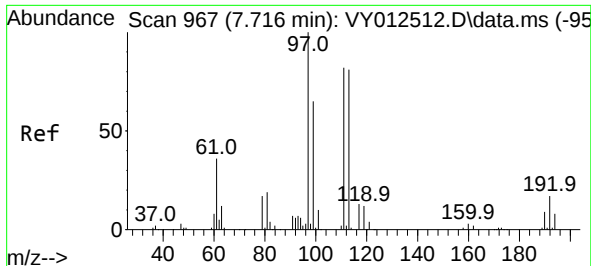
Ion Ratio Lower Upper

114 100

63 17.1 0.0 33.6

88 14.6 0.0 29.8





#35

Dibromofluoromethane

Concen: 40.534 ug/l

RT: 7.716 min Scan# 9

Delta R.T. 0.000 min

Lab File: VY012537.D

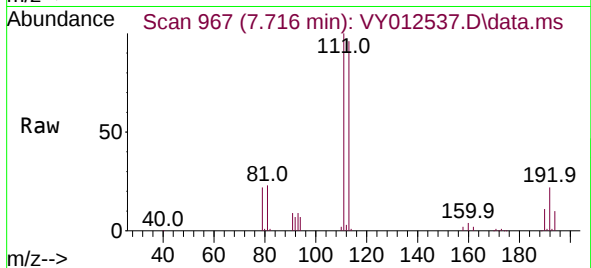
Acq: 08 Feb 2023 13:05

Instrument :

MSVOA_Y

ClientSampleId :

TOT-VOC-GRAB-4



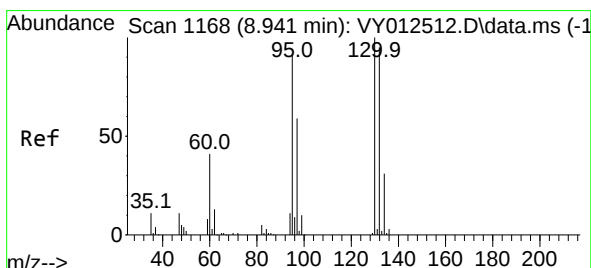
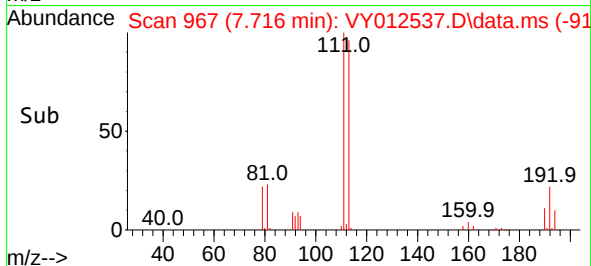
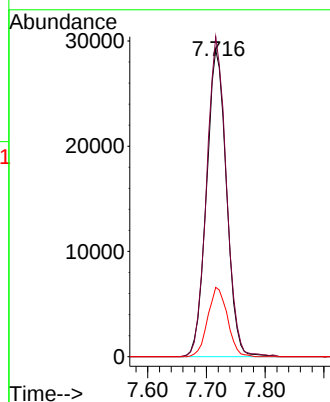
Tgt Ion:113 Resp: 68993

Ion Ratio Lower Upper

113 100

111 103.1 81.9 122.9

192 22.2 17.5 26.3



#44

Trichloroethene

Concen: 2.455 ug/l

RT: 8.941 min Scan# 1168

Delta R.T. 0.000 min

Lab File: VY012537.D

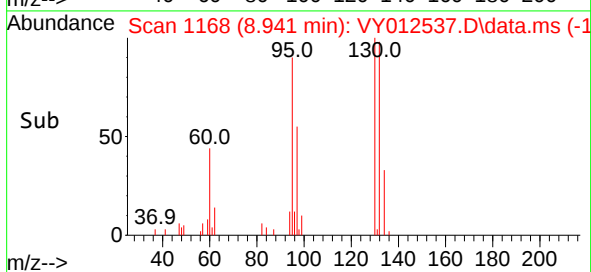
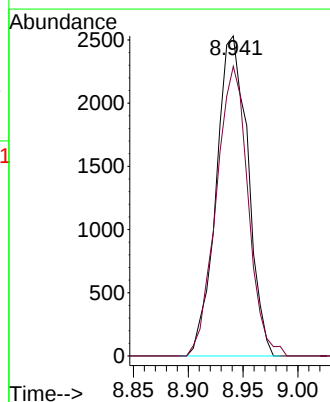
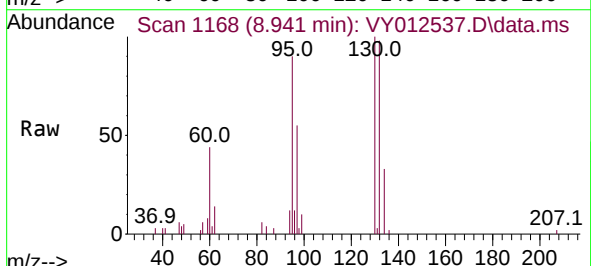
Acq: 08 Feb 2023 13:05

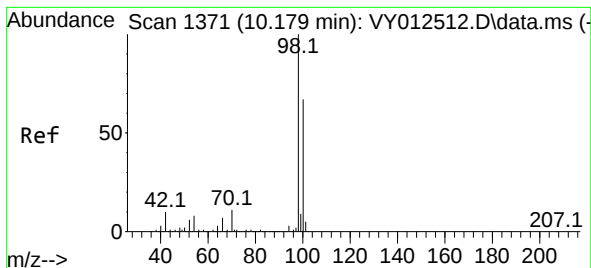
Tgt Ion:130 Resp: 5084

Ion Ratio Lower Upper

130 100

95 90.5 0.0 181.2





#50

Toluene-d8

Concen: 38.089 ug/l

RT: 10.179 min Scan# 1371

Delta R.T. 0.000 min

Lab File: VY012537.D

Acq: 08 Feb 2023 13:05

Instrument :

MSVOA_Y

ClientSampleId :

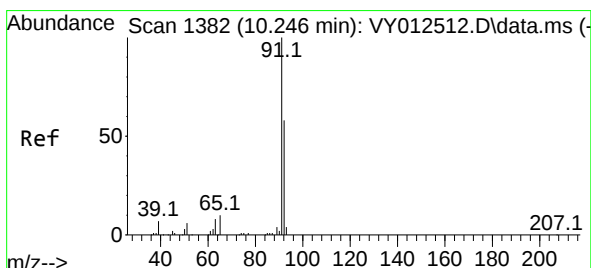
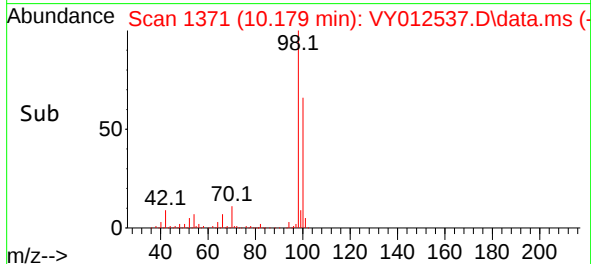
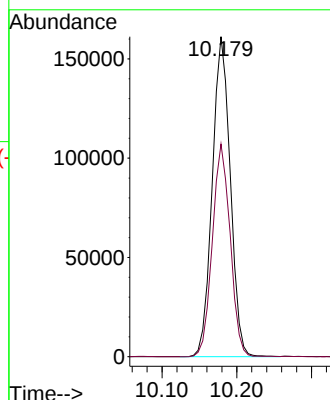
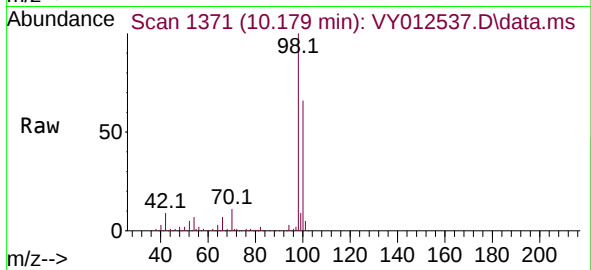
TOT-VOC-GRAB-4

Tgt Ion: 98 Resp: 269846

Ion Ratio Lower Upper

98 100

100 65.7 52.2 78.2



#52

Toluene

Concen: 5.593 ug/l

RT: 10.246 min Scan# 1382

Delta R.T. 0.000 min

Lab File: VY012537.D

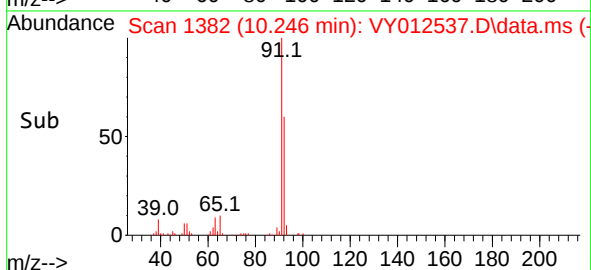
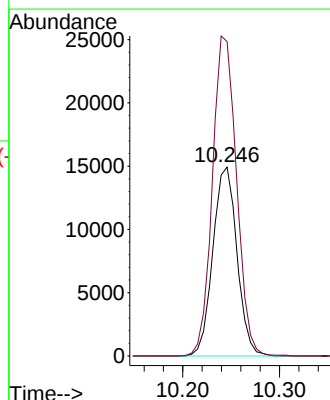
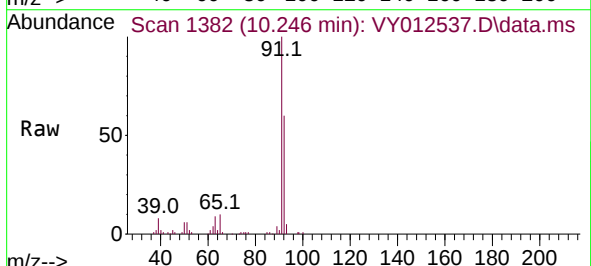
Acq: 08 Feb 2023 13:05

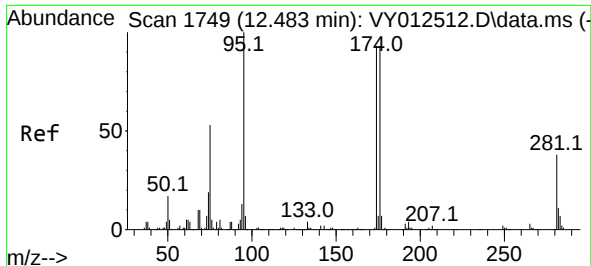
Tgt Ion: 92 Resp: 25806

Ion Ratio Lower Upper

92 100

91 169.9 137.2 205.8





#62

4-Bromofluorobenzene

Concen: 35.920 ug/l

RT: 12.477 min Scan# 1

Delta R.T. -0.006 min

Lab File: VY012537.D

Acq: 08 Feb 2023 13:05

Instrument :

MSVOA_Y

ClientSampleId :

TOT-VOC-GRAB-4

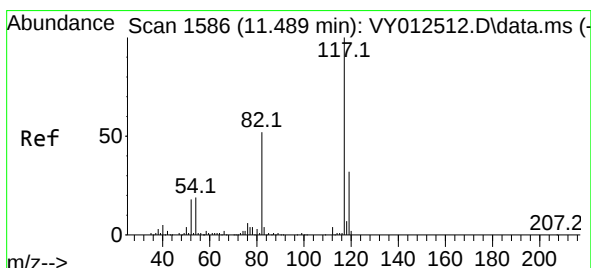
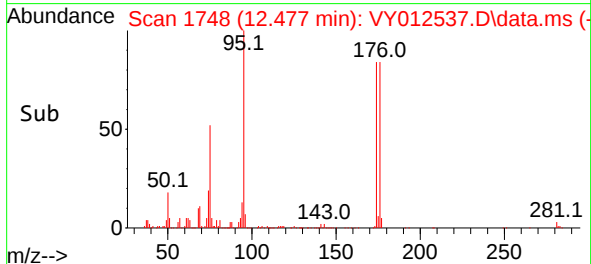
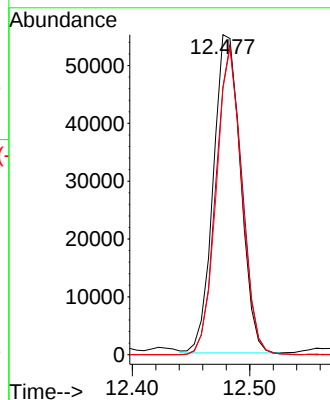
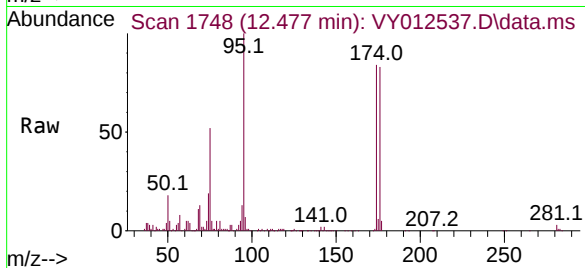
Tgt Ion: 95 Resp: 88764

Ion Ratio Lower Upper

95 100

174 92.7 0.0 188.0

176 90.3 0.0 183.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.489 min Scan# 1586

Delta R.T. 0.000 min

Lab File: VY012537.D

Acq: 08 Feb 2023 13:05

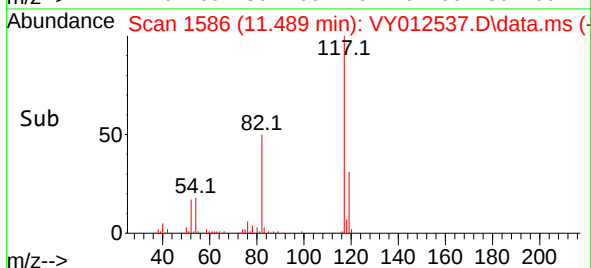
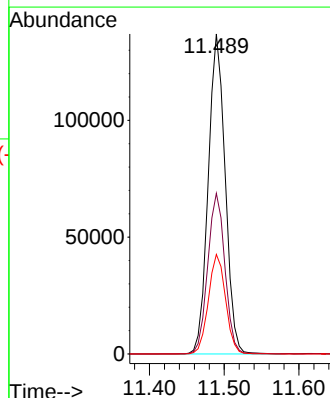
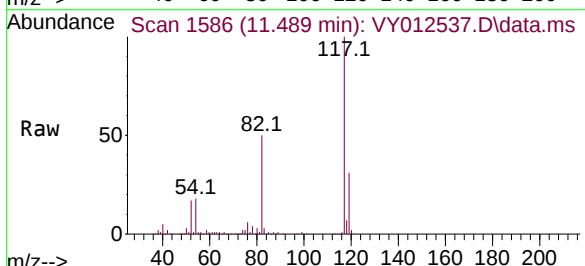
Tgt Ion: 117 Resp: 215401

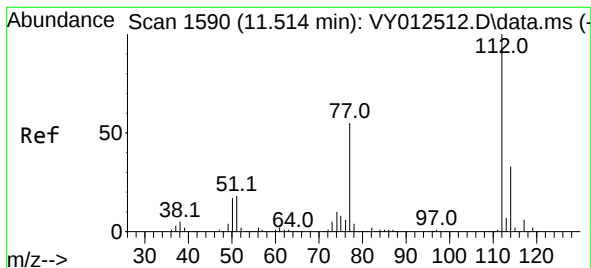
Ion Ratio Lower Upper

117 100

82 50.1 41.7 62.5

119 31.1 25.8 38.8

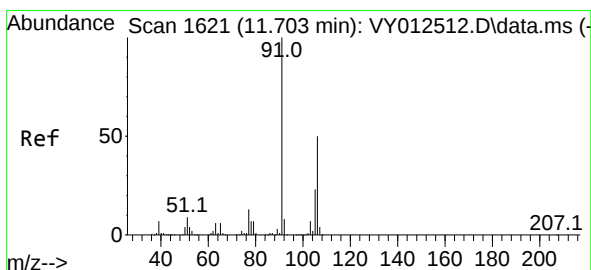
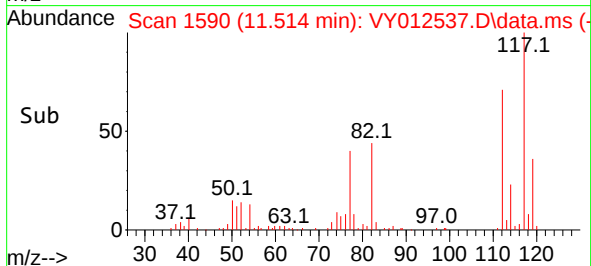
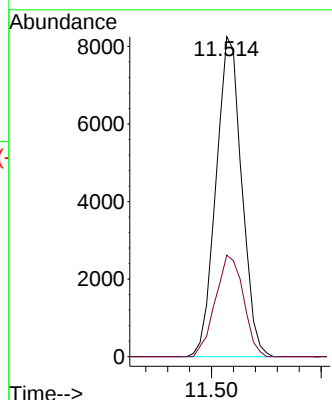
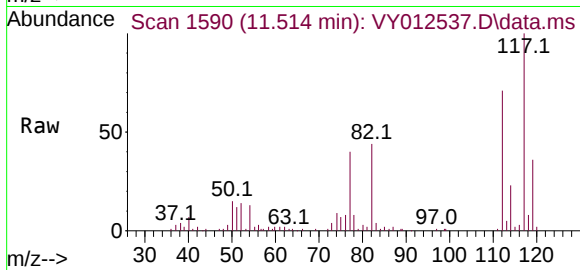




#65
Chlorobenzene
Concen: 2.628 ug/l
RT: 11.514 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY012537.D
Acq: 08 Feb 2023 13:05

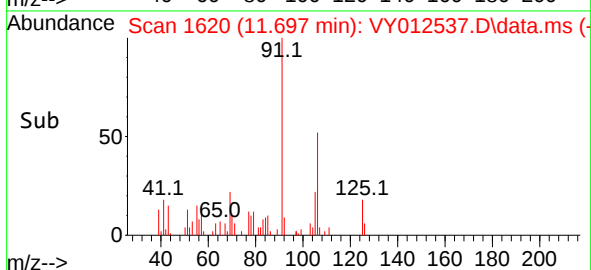
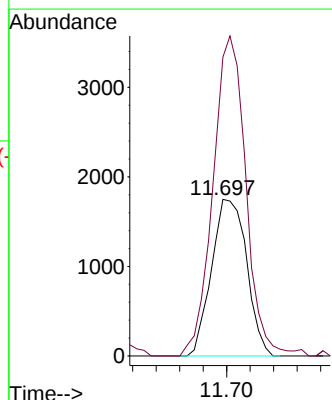
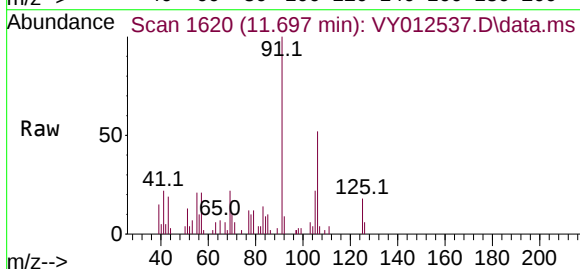
Instrument :
MSVOA_Y
ClientSampleId :
TOT-VOC-GRAB-4

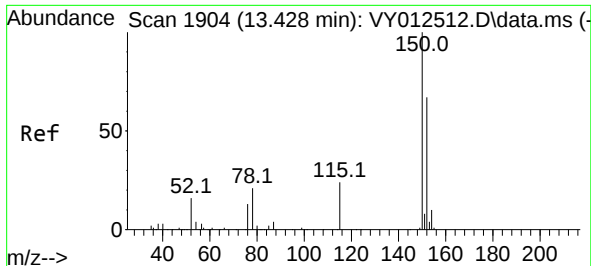
Tgt Ion:112 Resp: 13428
Ion Ratio Lower Upper
112 100
114 31.8 26.0 39.0



#68
m/p-Xylenes
Concen: 1.013 ug/l
RT: 11.697 min Scan# 1620
Delta R.T. -0.006 min
Lab File: VY012537.D
Acq: 08 Feb 2023 13:05

Tgt Ion:106 Resp: 3625
Ion Ratio Lower Upper
106 100
91 192.2 160.3 240.5

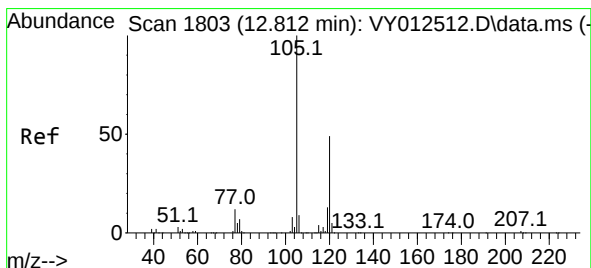
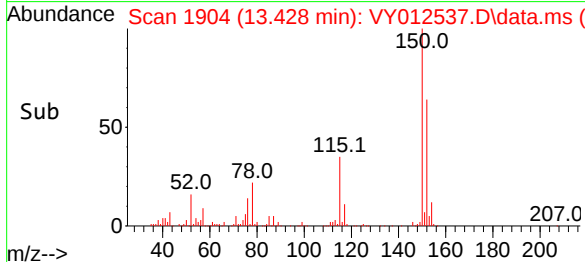
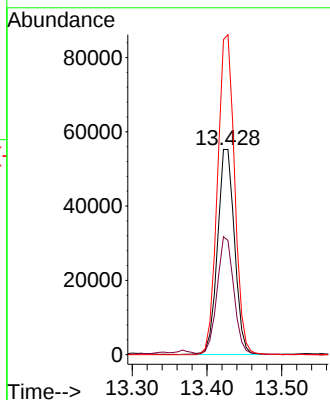
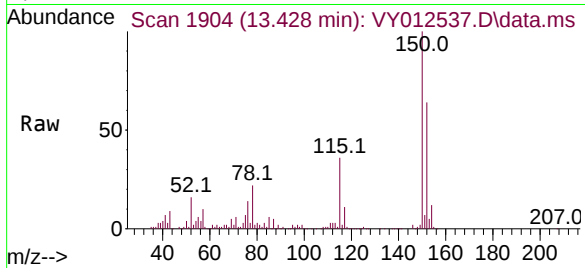




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.428 min Scan# 1904
 Delta R.T. 0.000 min
 Lab File: VY012537.D
 Acq: 08 Feb 2023 13:05

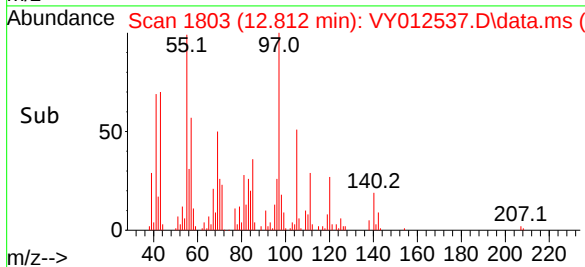
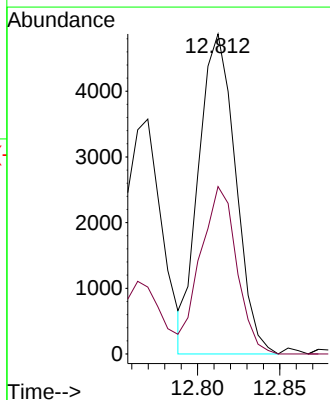
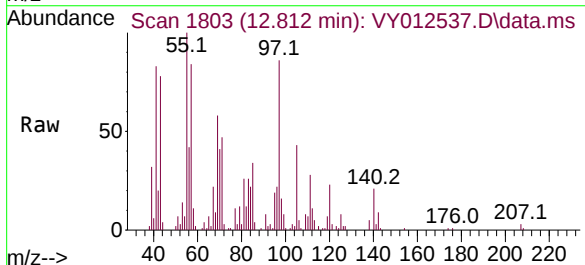
Instrument :
 MSVOA_Y
 ClientSampleId :
 TOT-VOC-GRAB-4

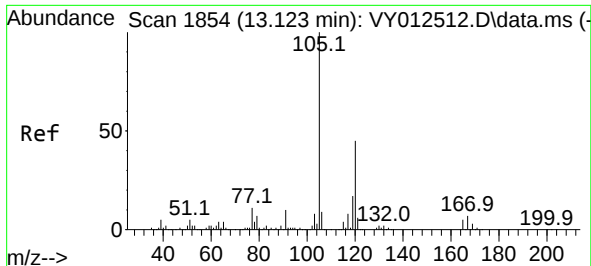
Tgt Ion:152 Resp: 87458
 Ion Ratio Lower Upper
 152 100
 115 57.1 28.1 84.3
 150 156.9 0.0 351.0



#80
 1,3,5-Trimethylbenzene
 Concen: 1.243 ug/l
 RT: 12.812 min Scan# 1803
 Delta R.T. 0.000 min
 Lab File: VY012537.D
 Acq: 08 Feb 2023 13:05

Tgt Ion:105 Resp: 7569
 Ion Ratio Lower Upper
 105 100
 120 51.5 24.6 74.0

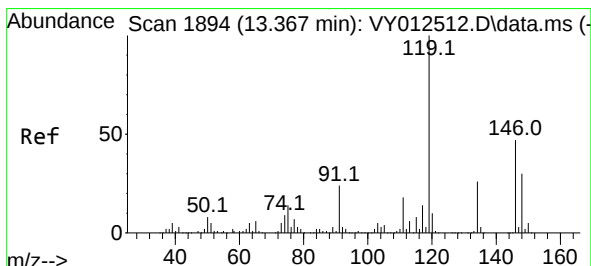
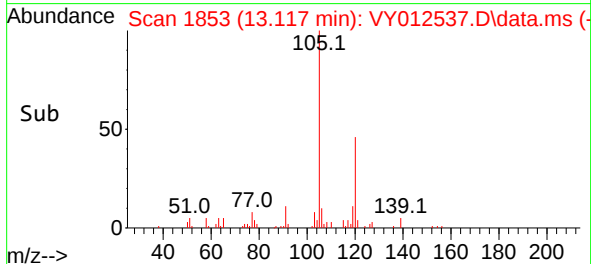
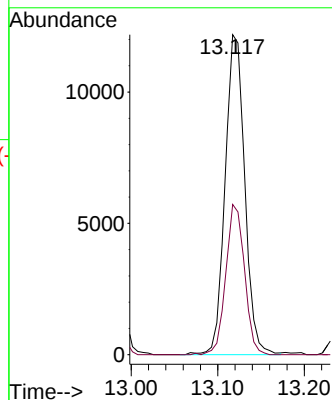
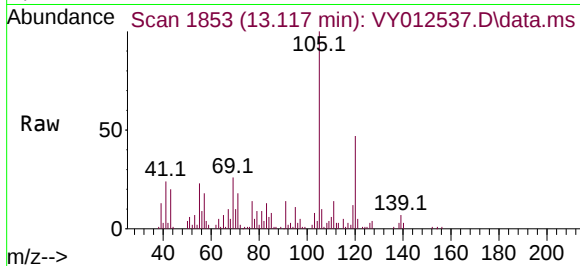




#84
1,2,4-Trimethylbenzene
Concen: 3.203 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. -0.006 min
Lab File: VY012537.D
Acq: 08 Feb 2023 13:05

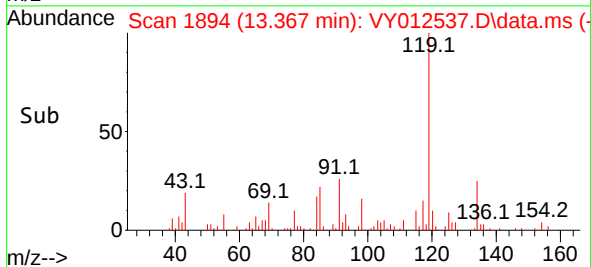
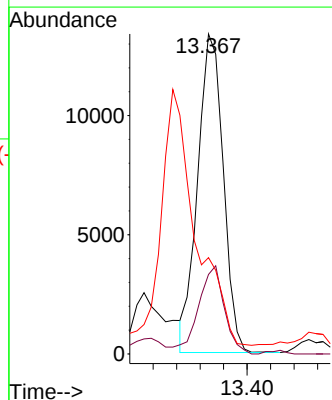
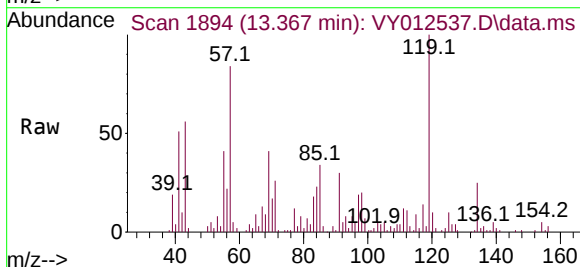
Instrument :
MSVOA_Y
ClientSampleId :
TOT-VOC-GRAB-4

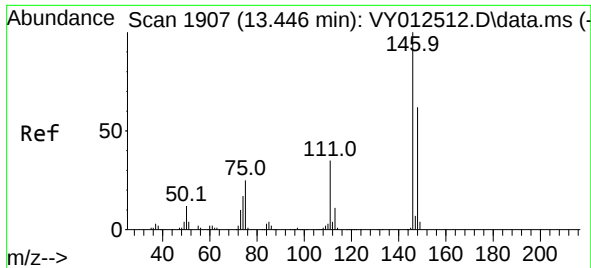
Tgt Ion:105 Resp: 19197
Ion Ratio Lower Upper
105 100
120 44.7 22.8 68.3



#86
p-Isopropyltoluene
Concen: 3.051 ug/l
RT: 13.367 min Scan# 1894
Delta R.T. 0.000 min
Lab File: VY012537.D
Acq: 08 Feb 2023 13:05

Tgt Ion:119 Resp: 20229
Ion Ratio Lower Upper
119 100
134 27.9 13.4 40.1
91 0.0 12.0 36.1#





#88

1,4-Dichlorobenzene

Concen: 2.976 ug/l

RT: 13.446 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY012537.D

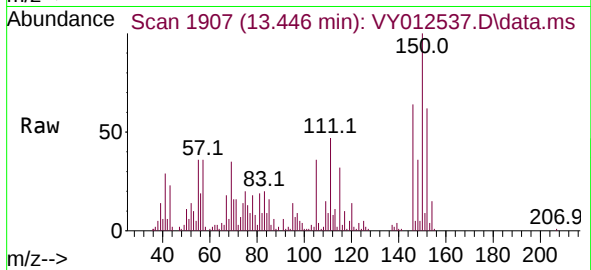
Acq: 08 Feb 2023 13:05

Instrument :

MSVOA_Y

ClientSampleId :

TOT-VOC-GRAB-4



Tgt Ion:	146	Resp:	10173
Ion	Ratio	Lower	Upper
146	100		
111	78.5	18.4	55.2#
148	65.5	31.6	95.0

