

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY011323\
 Data File : VY012188.D
 Acq On : 13 Jan 2023 13:27
 Operator : KP/MD
 Sample : 01132-06RE
 Misc : 2.50g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TOT-VOC-1RE

Quant Time: Jan 16 08:18:12 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y010623S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 07 01:46:48 2023
 Response via : Initial Calibration

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

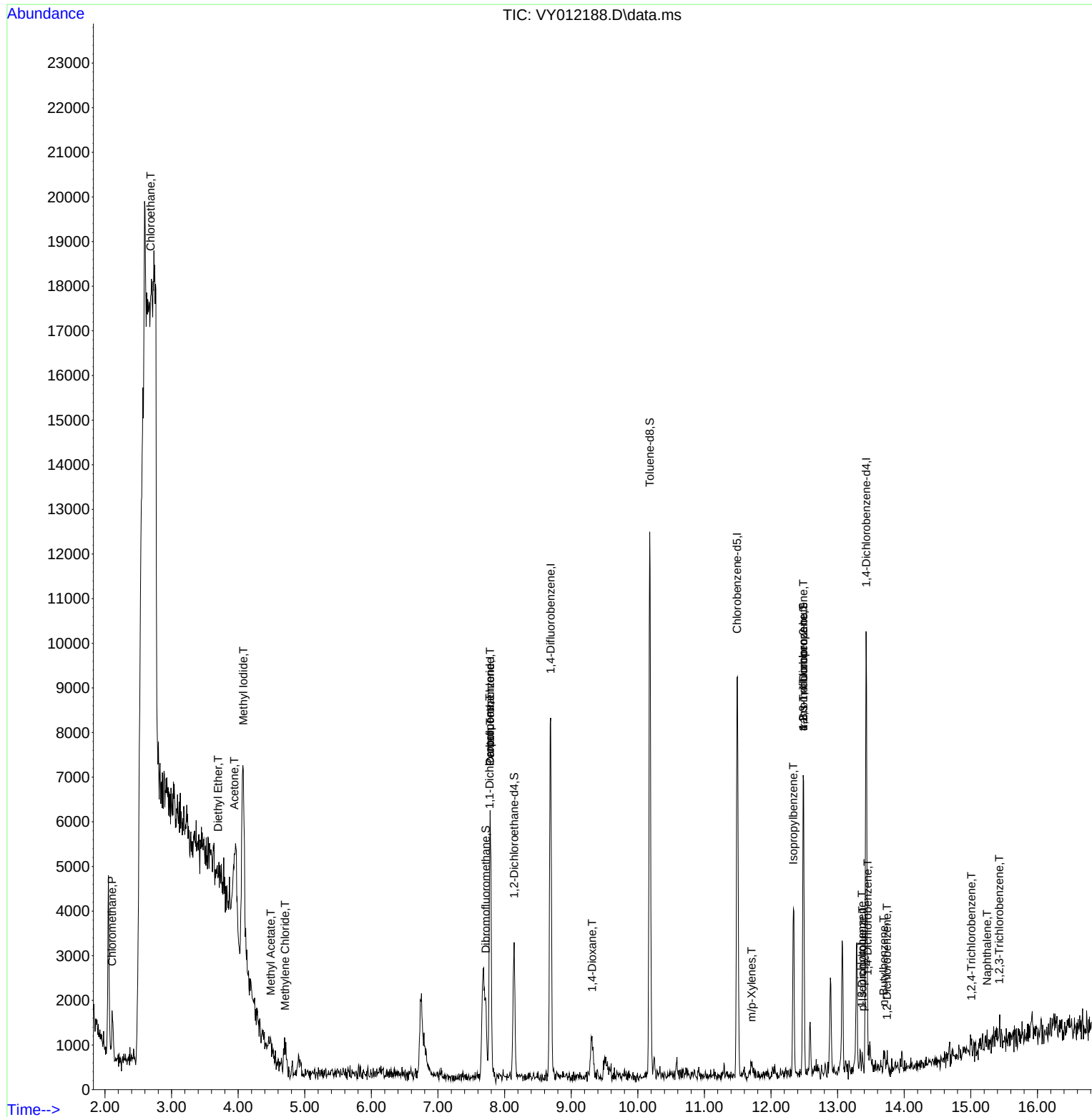
Internal Standards						
1) Pentafluorobenzene	7.783	168	5064	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	7888	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	5978	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	2790	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	2424	42.599	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	85.200%
35) Dibromofluoromethane	7.716	113	1177	22.702	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	45.400%#
50) Toluene-d8	10.179	98	8862	43.305	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	=	86.620%
62) 4-Bromofluorobenzene	12.483	95	2225	31.106	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	62.220%
Target Compounds						
					Qvalue	
3) Chloromethane	2.107	50	987	25.232	ug/l	90
5) Bromomethane	2.662	94	88	Below Cal	#	1
6) Chloroethane	2.686	64	86	2.637	ug/l #	40
8) Diethyl Ether	3.698	74	117	3.897	ug/l	70
10) Methyl Iodide	4.076	142	7420	108.420	ug/l	96
11) Tert butyl alcohol	4.948	59	68	Below Cal	#	74
13) Acrolein	3.735	56	82	Below Cal	#	14
16) Acetone	3.942	43	922	68.880	ug/l	96
18) Methyl Acetate	4.491	43	868	22.543	ug/l #	71
20) Methylene Chloride	4.704	84	544	4.192	ug/l #	71
31) Cyclohexane	7.783	56	21	Below Cal	#	16
36) 1,1-Dichloropropene	7.777	75	275	3.496	ug/l #	41
38) Carbon Tetrachloride	7.783	117	482	4.828	ug/l #	14
49) 1,4-Dioxane	9.313	88	1193	2679.662	ug/l #	75
68) m/p-Xylenes	11.709	106	117	1.222	ug/l	75
73) Isopropylbenzene	12.337	105	341	1.545	ug/l #	49
76) 1,2,3-Trichloropropane	12.483	75	1145	35.943	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.483	75	1145	79.823	ug/l #	13
86) p-Isopropyltoluene	13.373	119	236	1.142	ug/l #	50
87) 1,3-Dichlorobenzene	13.367	146	178	1.686	ug/l #	56
88) 1,4-Dichlorobenzene	13.453	146	236	2.238	ug/l #	70
89) n-Butylbenzene	13.690	91	298	1.665	ug/l #	77
91) 1,2-Dichlorobenzene	13.739	146	155	1.648	ug/l #	73
93) 1,2,4-Trichlorobenzene	15.007	180	160	2.729	ug/l #	42
95) Naphthalene	15.245	128	338	2.913	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.428	180	98	1.923	ug/l #	67

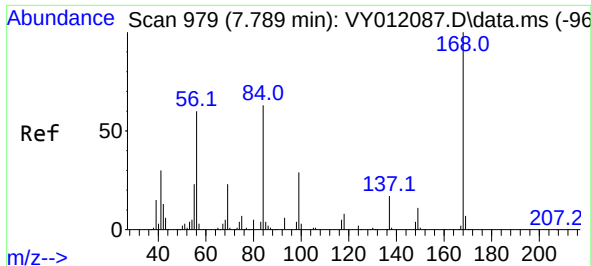
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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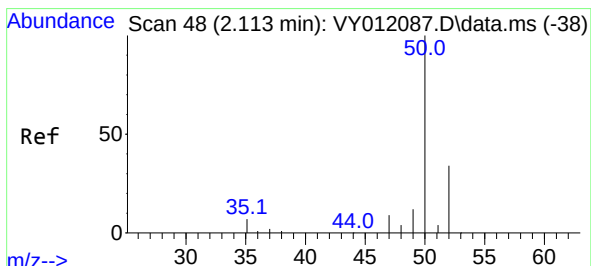
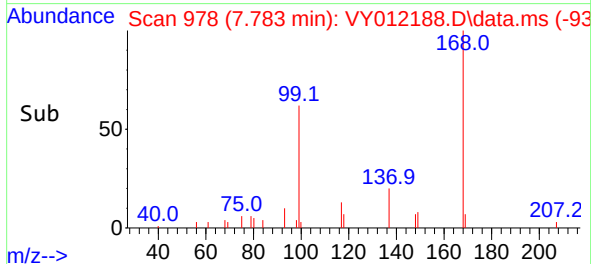
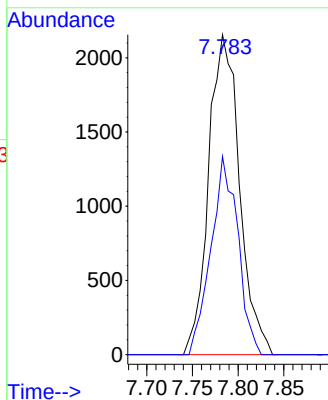
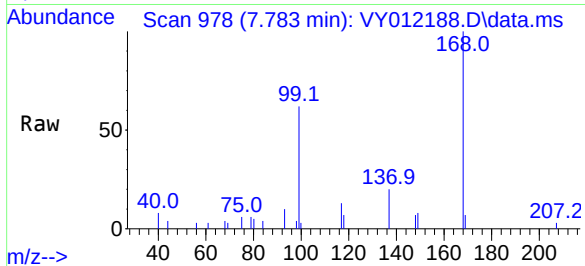




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY012188.D
Acq: 13 Jan 2023 13:27

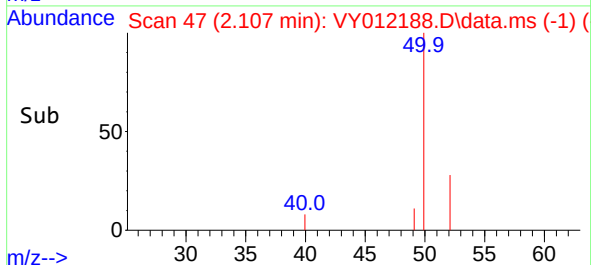
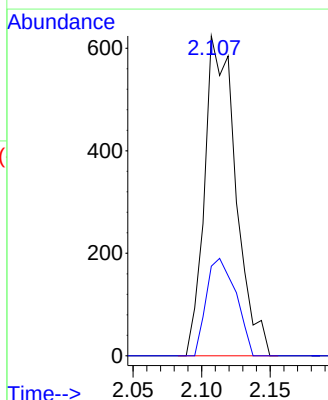
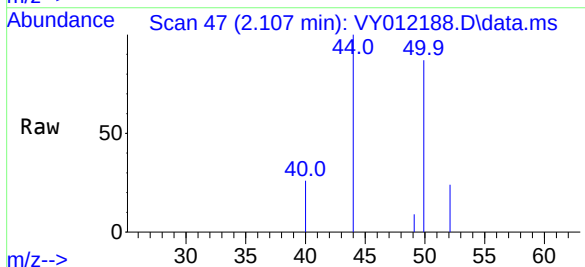
Instrument :
MSVOA_Y
ClientSampleId :
TOT-VOC-1RE

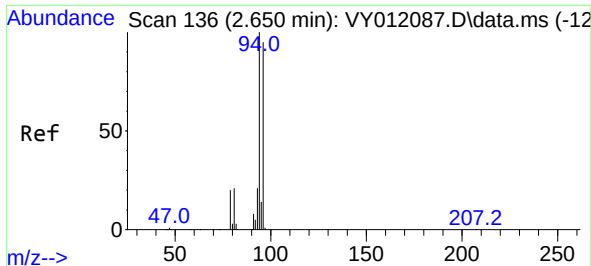
Tgt Ion:168 Resp: 5064
Ion Ratio Lower Upper
168 100
99 62.0 44.0 66.0



#3
Chloromethane
Concen: 25.232 ug/l
RT: 2.107 min Scan# 47
Delta R.T. -0.006 min
Lab File: VY012188.D
Acq: 13 Jan 2023 13:27

Tgt Ion: 50 Resp: 987
Ion Ratio Lower Upper
50 100
52 28.0 26.8 40.2

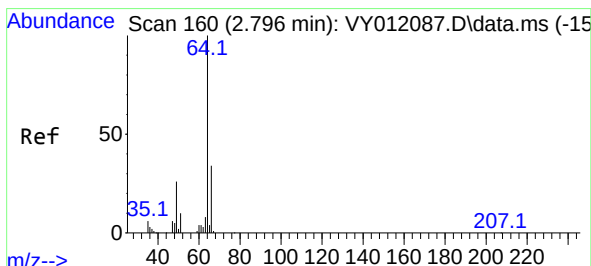
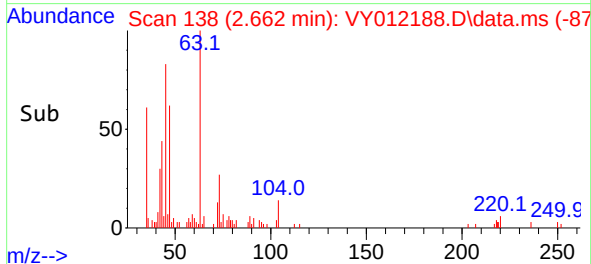
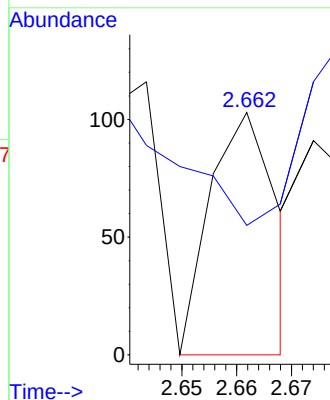
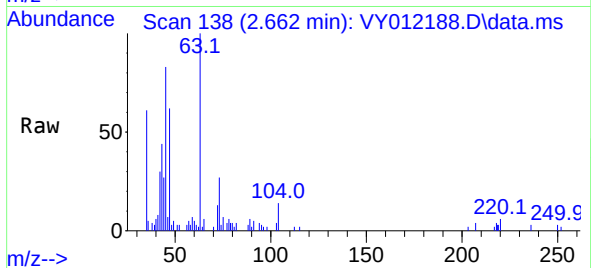




#5
Bromomethane
Concen: Below Cal
RT: 2.662 min Scan# 11
Delta R.T. 0.012 min
Lab File: VY012188.D
Acq: 13 Jan 2023 13:27

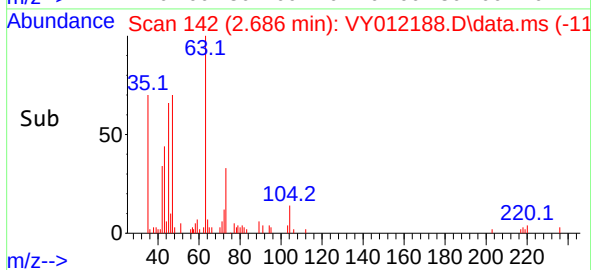
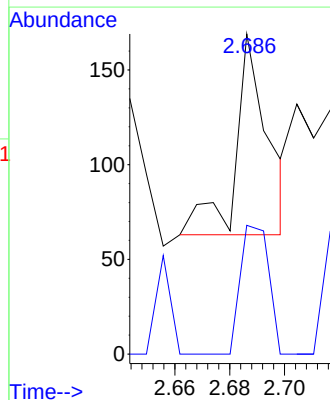
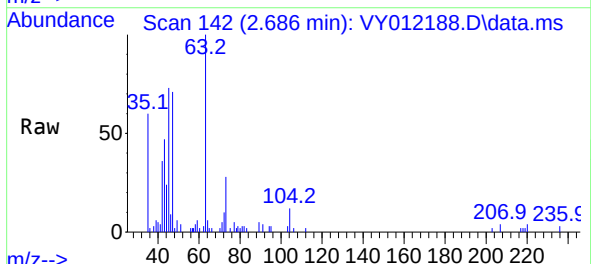
Instrument :
MSVOA_Y
ClientSampleId :
TOT-VOC-1RE

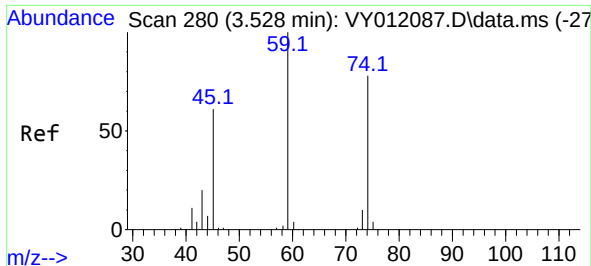
Tgt Ion: 94 Resp: 88
Ion Ratio Lower Upper
94 100
96 0.0 77.4 116.2#



#6
Chloroethane
Concen: 2.637 ug/l
RT: 2.686 min Scan# 142
Delta R.T. -0.110 min
Lab File: VY012188.D
Acq: 13 Jan 2023 13:27

Tgt Ion: 64 Resp: 86
Ion Ratio Lower Upper
64 100
66 64.2 25.0 37.4#

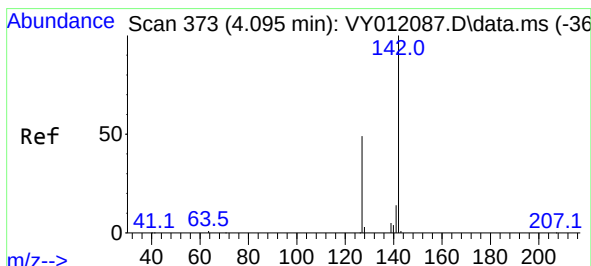
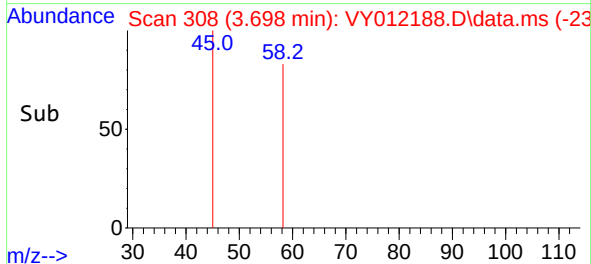
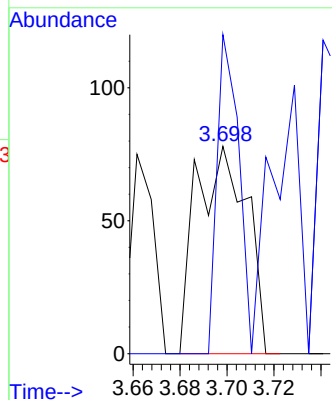
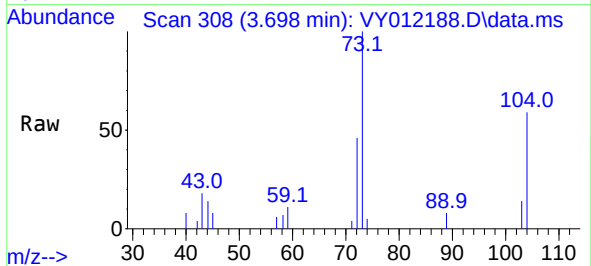




#8
Diethyl Ether
Concen: 3.897 ug/l
RT: 3.698 min Scan# 30
Delta R.T. 0.170 min
Lab File: VY012188.D
Acq: 13 Jan 2023 13:27

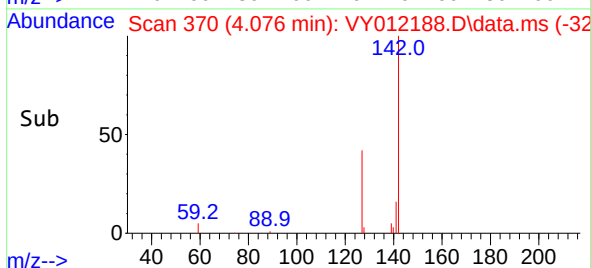
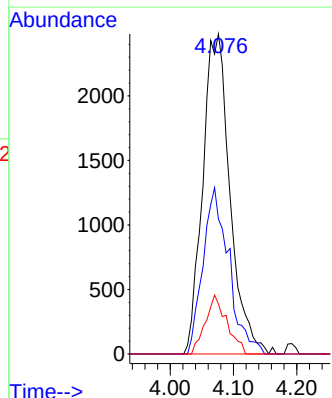
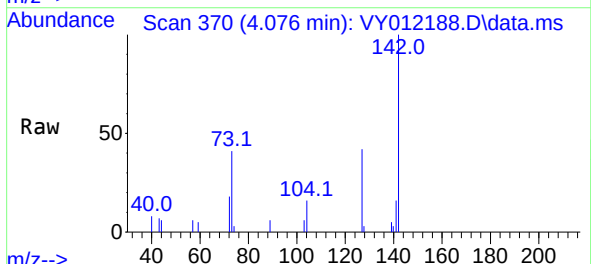
Instrument :
MSVOA_Y
ClientSampleId :
TOT-VOC-1RE

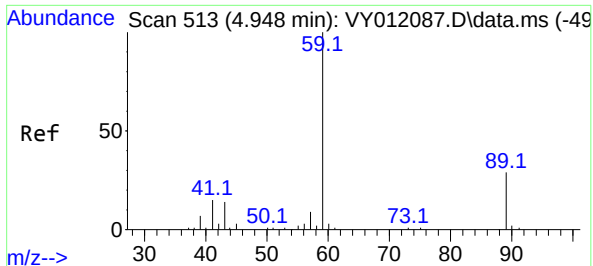
Tgt Ion: 74 Resp: 117
Ion Ratio Lower Upper
74 100
45 65.0 46.8 140.3



#10
Methyl Iodide
Concen: 108.420 ug/l
RT: 4.076 min Scan# 370
Delta R.T. -0.019 min
Lab File: VY012188.D
Acq: 13 Jan 2023 13:27

Tgt Ion: 142 Resp: 7420
Ion Ratio Lower Upper
142 100
127 49.4 37.0 55.4
141 14.6 11.4 17.0

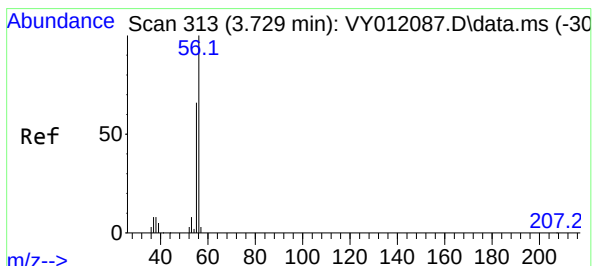
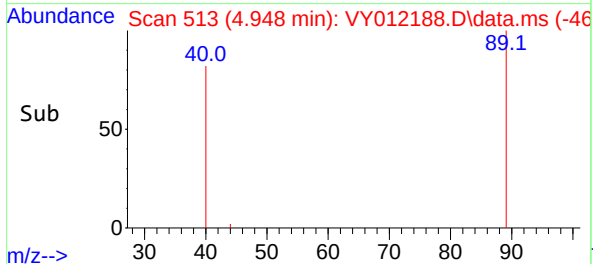
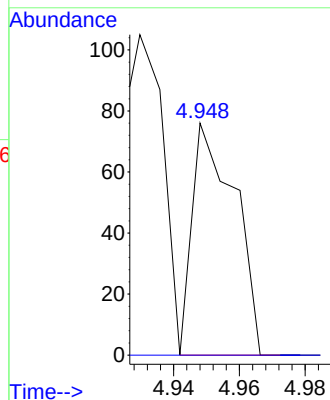
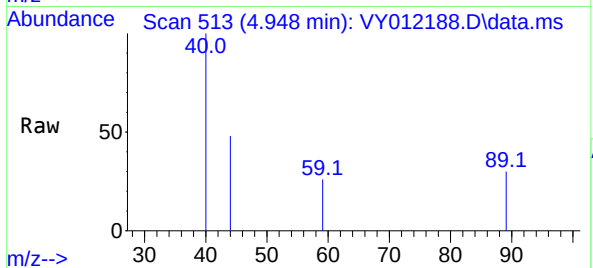




#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.948 min Scan# 51
Delta R.T. 0.000 min
Lab File: VY012188.D
Acq: 13 Jan 2023 13:27

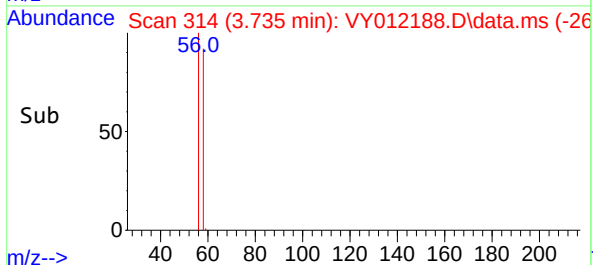
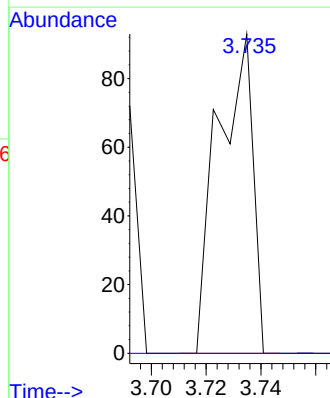
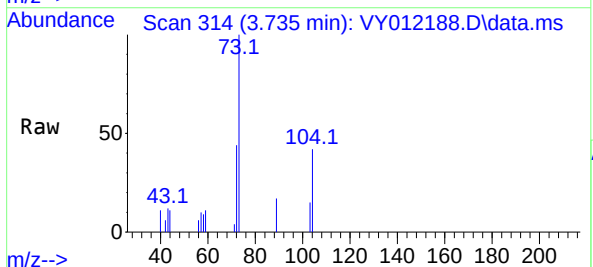
Instrument :
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ClientSampleId :
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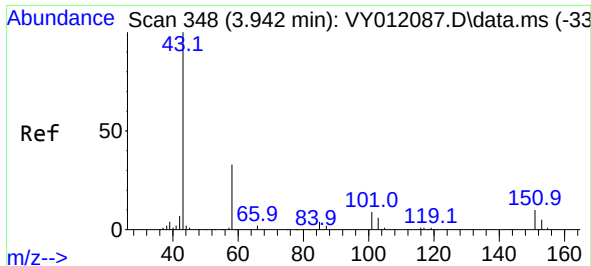
Tgt Ion: 59 Resp: 68
Ion Ratio Lower Upper
59 100
57 0.0 7.4 11.2#



#13
Acrolein
Concen: Below Cal
RT: 3.735 min Scan# 314
Delta R.T. 0.006 min
Lab File: VY012188.D
Acq: 13 Jan 2023 13:27

Tgt Ion: 56 Resp: 82
Ion Ratio Lower Upper
56 100
55 0.0 56.6 85.0#

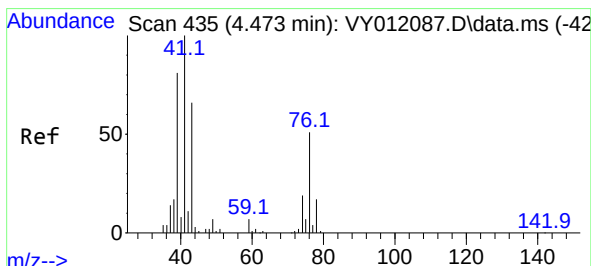
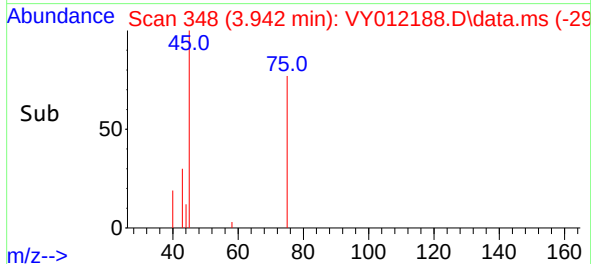
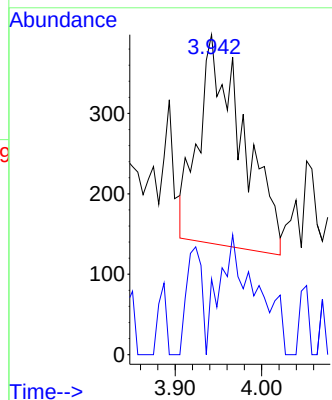
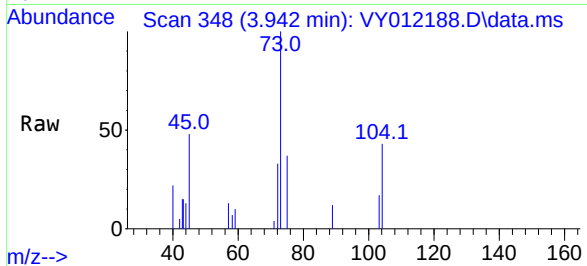




#16
Acetone
Concen: 68.880 ug/l
RT: 3.942 min Scan# 348
Delta R.T. 0.000 min
Lab File: VY012188.D
Acq: 13 Jan 2023 13:27

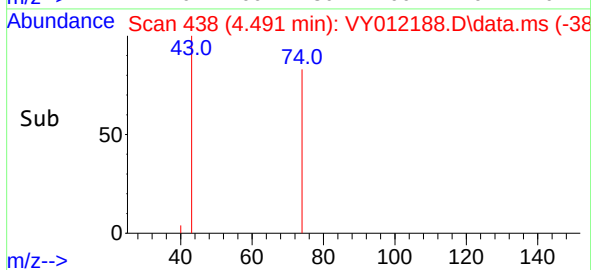
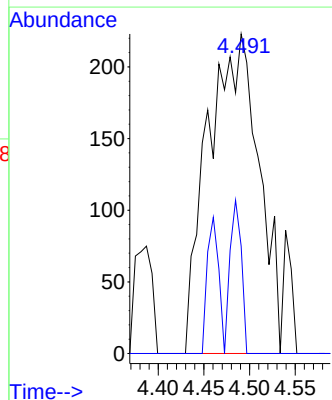
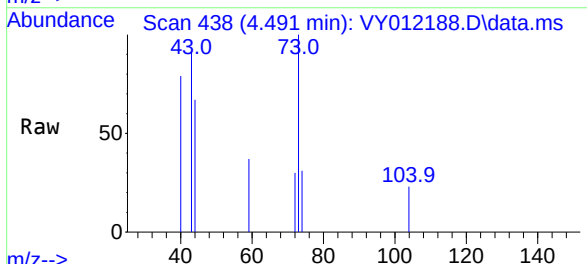
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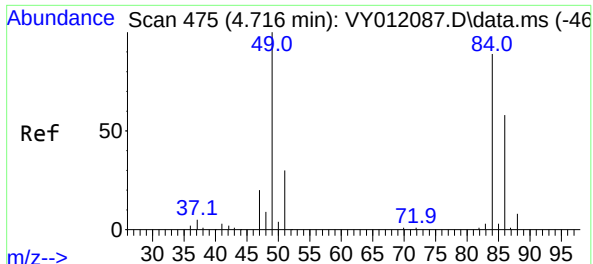
Tgt Ion: 43 Resp: 922
Ion Ratio Lower Upper
43 100
58 37.2 27.9 41.9



#18
Methyl Acetate
Concen: 22.543 ug/l
RT: 4.491 min Scan# 438
Delta R.T. 0.018 min
Lab File: VY012188.D
Acq: 13 Jan 2023 13:27

Tgt Ion: 43 Resp: 868
Ion Ratio Lower Upper
43 100
74 10.7 20.1 30.1#





#20

Methylene Chloride

Concen: 4.192 ug/l

RT: 4.704 min Scan# 41

Delta R.T. -0.012 min

Lab File: VY012188.D

Acq: 13 Jan 2023 13:27

Instrument :

MSVOA_Y

ClientSampleId :

TOT-VOC-1RE

Tgt Ion: 84 Resp: 544

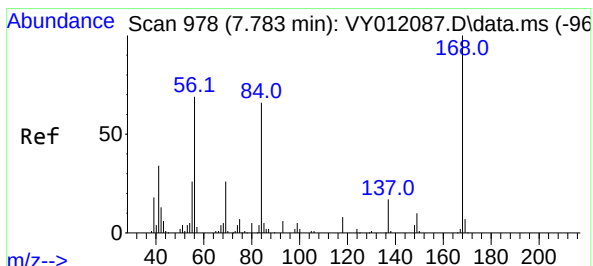
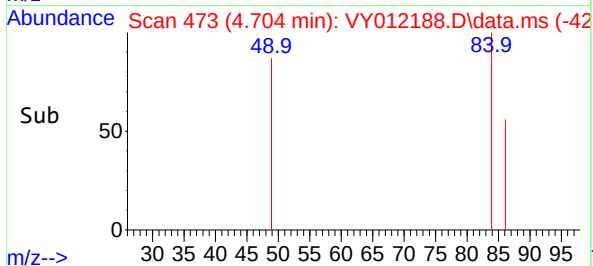
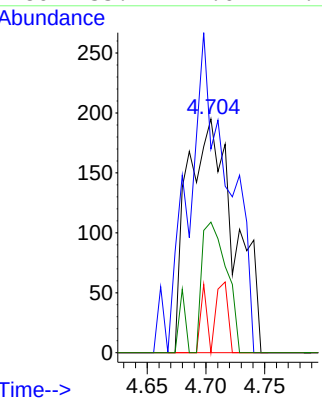
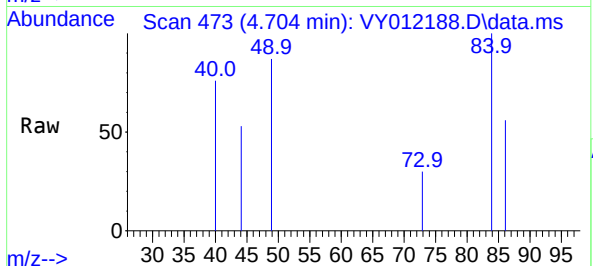
Ion Ratio Lower Upper

84 100

49 87.2 95.4 143.2#

51 0.0 29.9 44.9#

86 55.9 49.6 74.4



#31

Cyclohexane

Concen: Below Cal

RT: 7.783 min Scan# 978

Delta R.T. -0.000 min

Lab File: VY012188.D

Acq: 13 Jan 2023 13:27

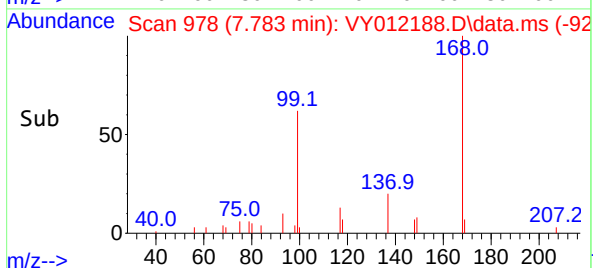
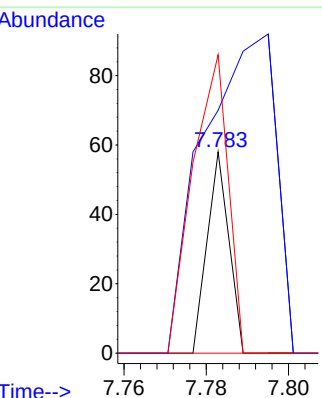
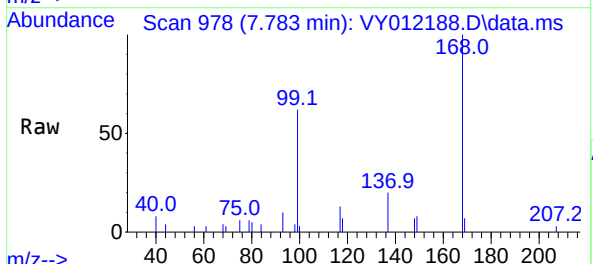
Tgt Ion: 56 Resp: 21

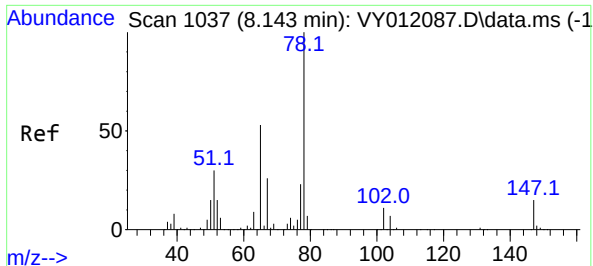
Ion Ratio Lower Upper

56 100

69 120.7 29.2 43.8#

84 148.3 72.6 108.8#

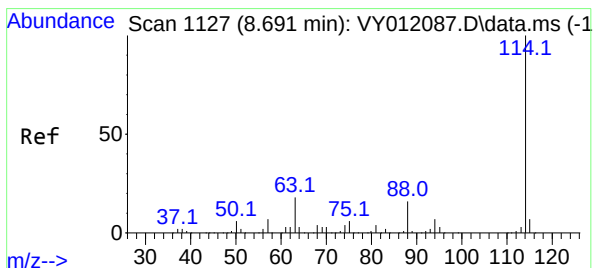
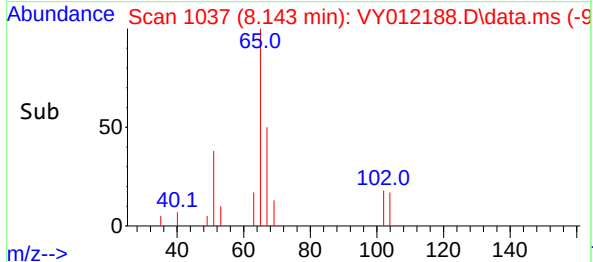
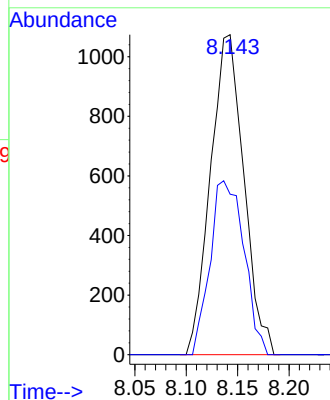
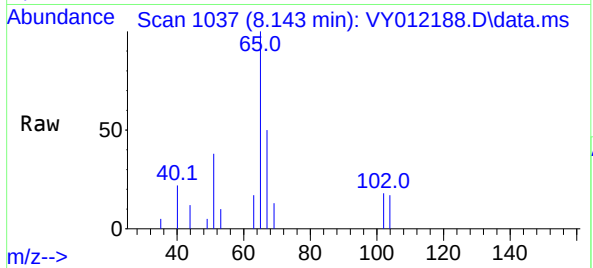




#33
 1,2-Dichloroethane-d4
 Concen: 42.599 ug/l
 RT: 8.143 min Scan# 1037
 Delta R.T. -0.000 min
 Lab File: VY012188.D
 Acq: 13 Jan 2023 13:27

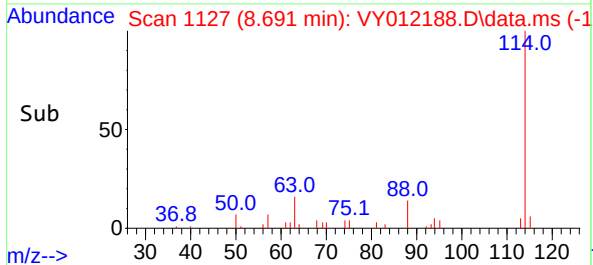
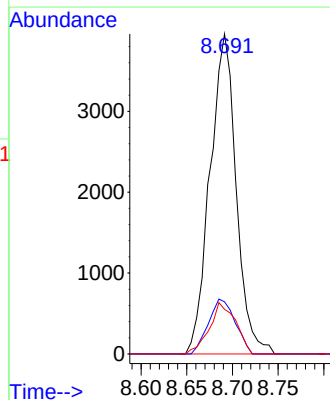
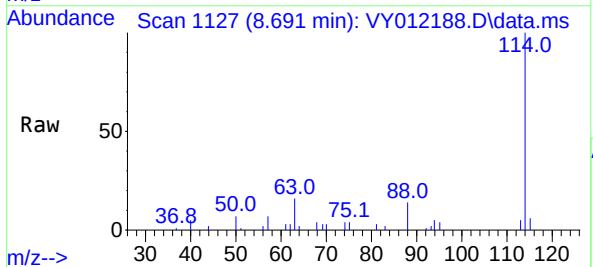
Instrument :
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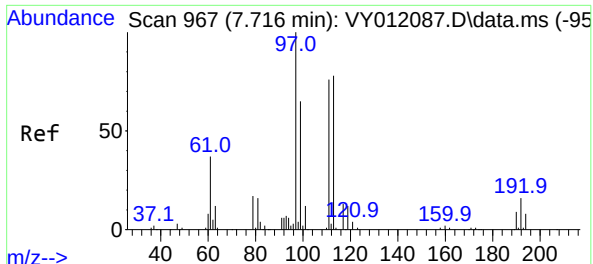
Tgt Ion: 65 Resp: 2424
 Ion Ratio Lower Upper
 65 100
 67 55.3 0.0 103.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.691 min Scan# 1127
 Delta R.T. 0.000 min
 Lab File: VY012188.D
 Acq: 13 Jan 2023 13:27

Tgt Ion: 114 Resp: 7888
 Ion Ratio Lower Upper
 114 100
 63 16.3 0.0 39.6
 88 13.9 0.0 32.2

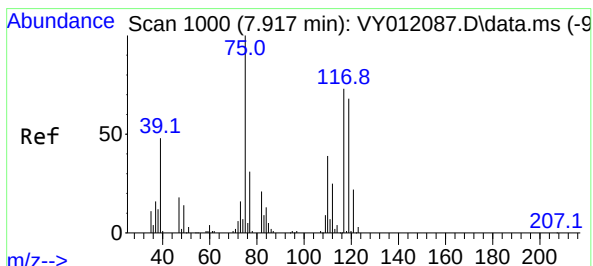
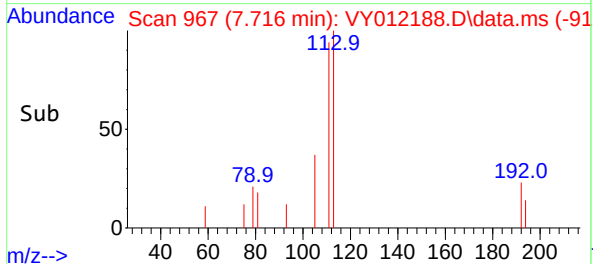
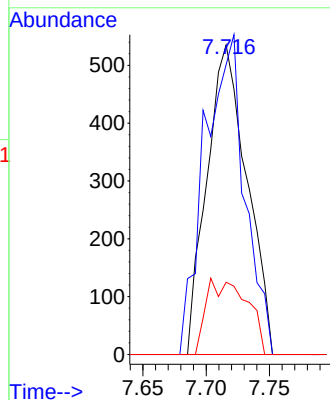
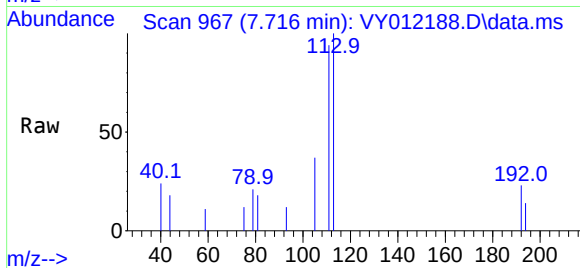




#35
Dibromofluoromethane
Concen: 22.702 ug/l
RT: 7.716 min Scan# 911
Delta R.T. -0.000 min
Lab File: VY012188.D
Acq: 13 Jan 2023 13:27

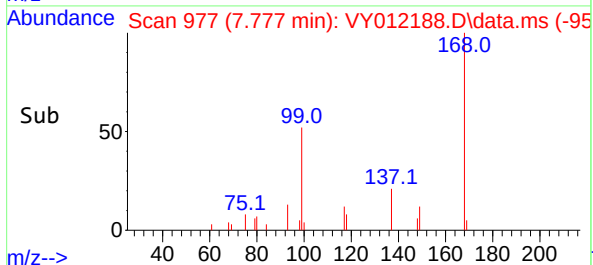
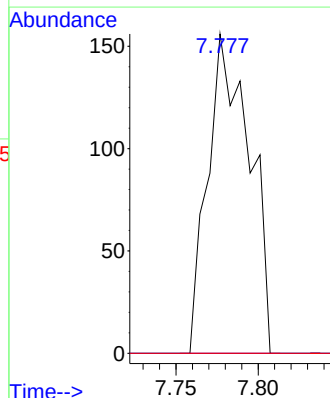
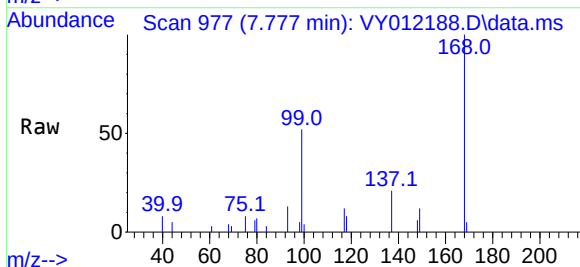
Instrument :
MSVOA_Y
ClientSampleId :
TOT-VOC-1RE

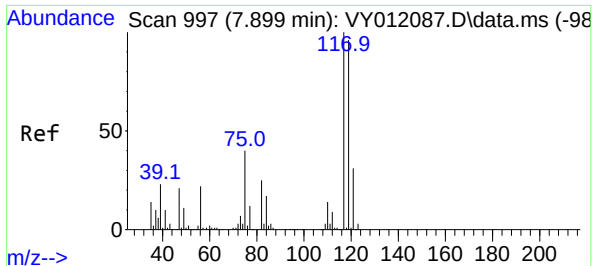
Tgt Ion:113 Resp: 1177
Ion Ratio Lower Upper
113 100
111 103.3 83.0 124.4
192 24.8 16.0 24.0#



#36
1,1-Dichloropropene
Concen: 3.496 ug/l
RT: 7.777 min Scan# 977
Delta R.T. -0.140 min
Lab File: VY012188.D
Acq: 13 Jan 2023 13:27

Tgt Ion: 75 Resp: 275
Ion Ratio Lower Upper
75 100
110 0.0 18.1 54.1#
77 0.0 25.1 37.7#

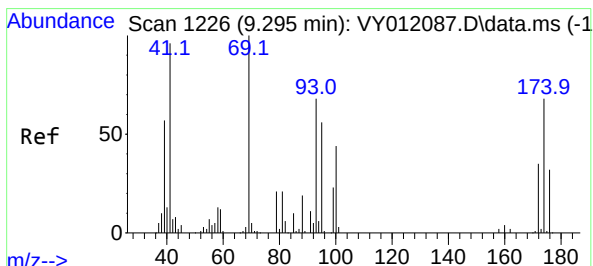
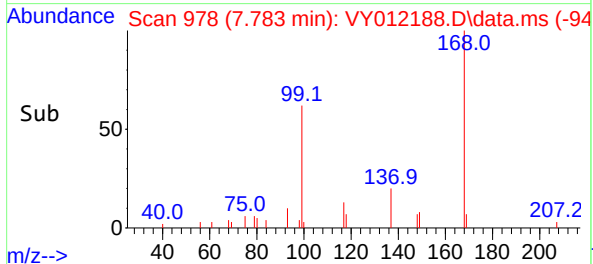
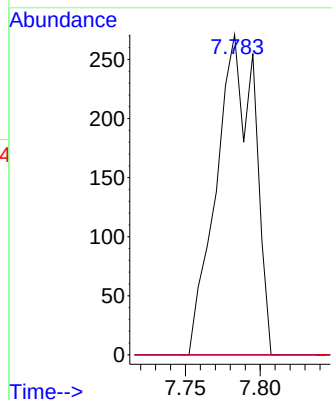
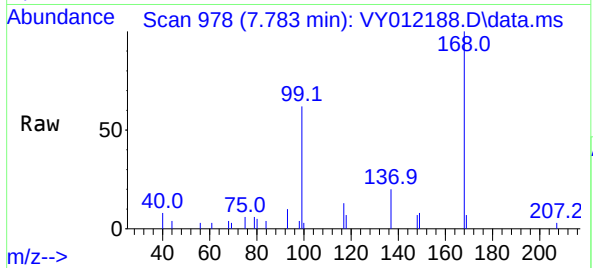




#38
Carbon Tetrachloride
Concen: 4.828 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.116 min
Lab File: VY012188.D
Acq: 13 Jan 2023 13:27

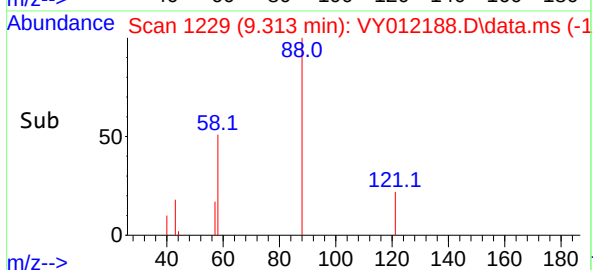
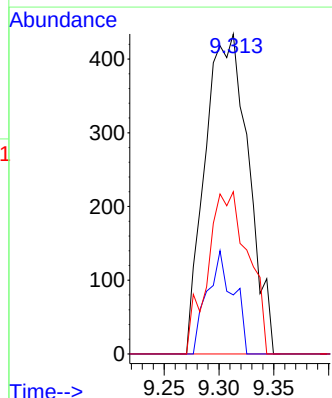
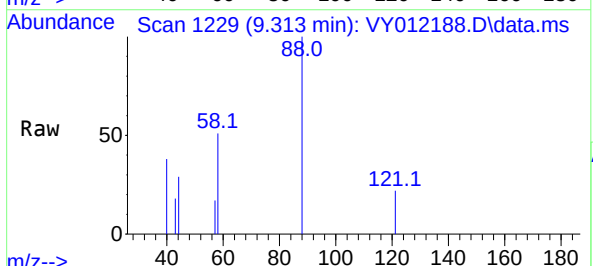
Instrument :
MSVOA_Y
ClientSampleId :
TOT-VOC-1RE

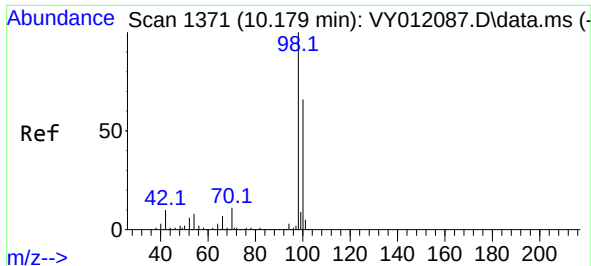
Tgt Ion:117 Resp: 482
Ion Ratio Lower Upper
117 100
119 0.0 73.8 110.8#
121 0.0 25.2 37.8#



#49
1,4-Dioxane
Concen: 2679.662 ug/l
RT: 9.313 min Scan# 1229
Delta R.T. 0.018 min
Lab File: VY012188.D
Acq: 13 Jan 2023 13:27

Tgt Ion: 88 Resp: 1193
Ion Ratio Lower Upper
88 100
43 19.4 26.2 39.2#
58 47.8 54.3 81.5#

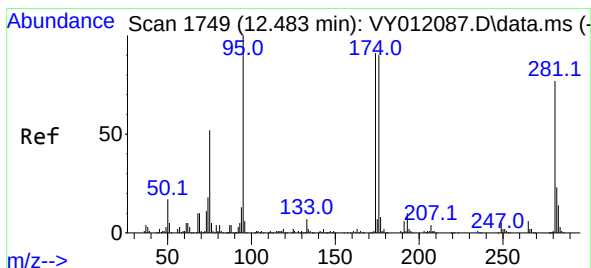
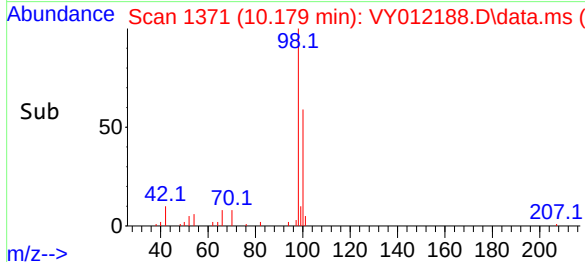
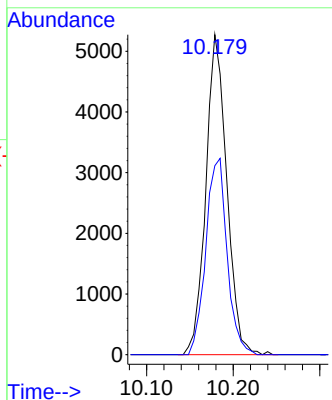
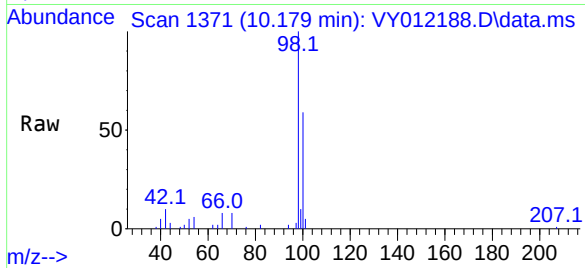




#50
Toluene-d8
Concen: 43.305 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY012188.D
Acq: 13 Jan 2023 13:27

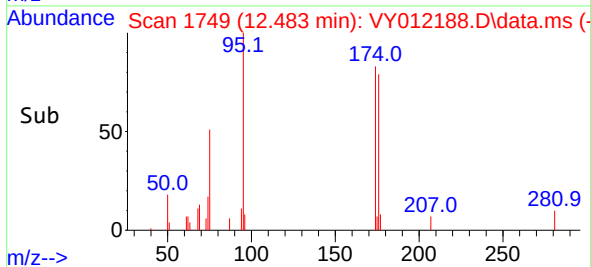
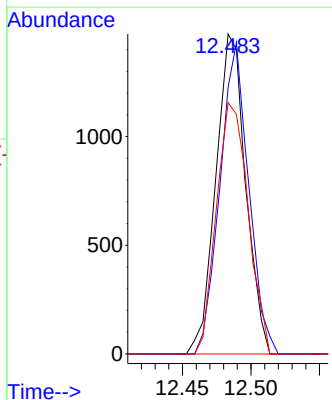
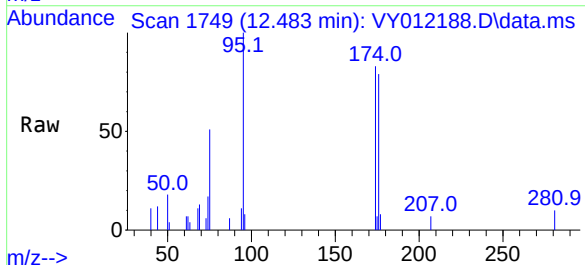
Instrument :
MSVOA_Y
ClientSampleId :
TOT-VOC-1RE

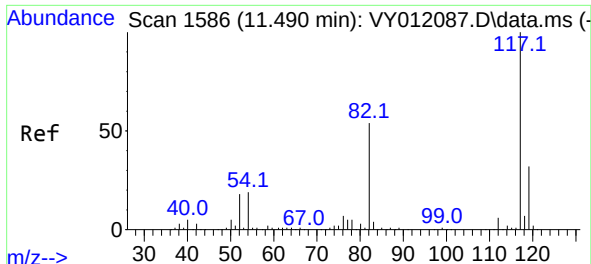
Tgt Ion: 98 Resp: 8862
Ion Ratio Lower Upper
98 100
100 62.4 51.9 77.9



#62
4-Bromofluorobenzene
Concen: 31.106 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VY012188.D
Acq: 13 Jan 2023 13:27

Tgt Ion: 95 Resp: 2225
Ion Ratio Lower Upper
95 100
174 93.8 0.0 172.0
176 83.5 0.0 167.6

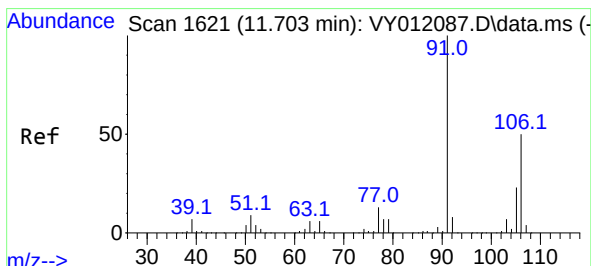
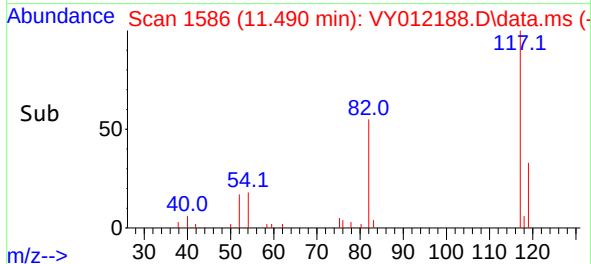
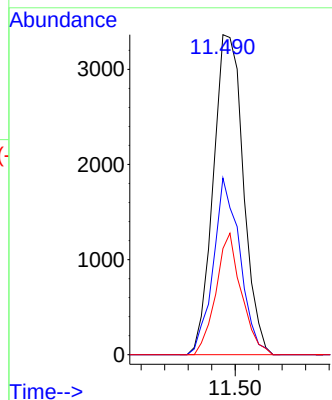
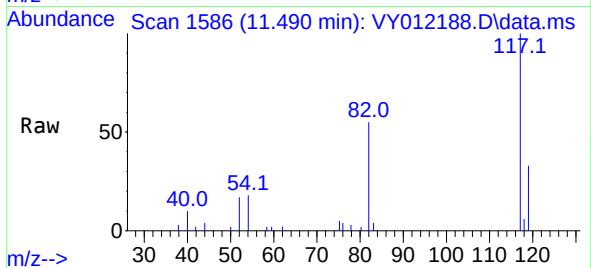




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 117
Delta R.T. -0.000 min
Lab File: VY012188.D
Acq: 13 Jan 2023 13:27

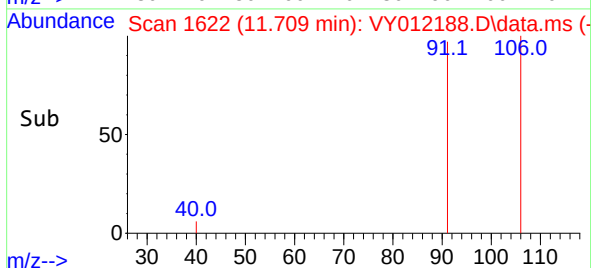
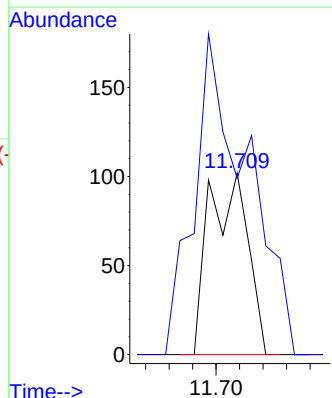
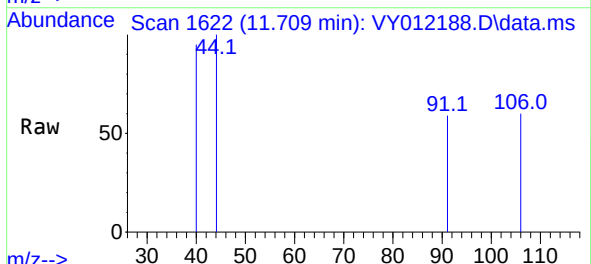
Instrument :
MSVOA_Y
ClientSampleId :
TOT-VOC-1RE

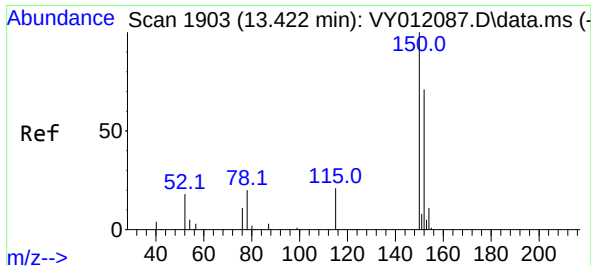
Tgt Ion:117	Resp:	5978
Ion	Ratio	Lower Upper
117	100	
82	55.2	44.8 67.2
119	33.1	25.4 38.2



#68
m/p-Xylenes
Concen: 1.222 ug/l
RT: 11.709 min Scan# 1622
Delta R.T. 0.006 min
Lab File: VY012188.D
Acq: 13 Jan 2023 13:27

Tgt Ion:106	Resp:	117
Ion	Ratio	Lower Upper
106	100	
91	241.9	162.5 243.7

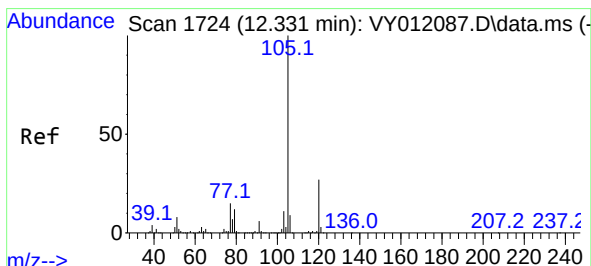
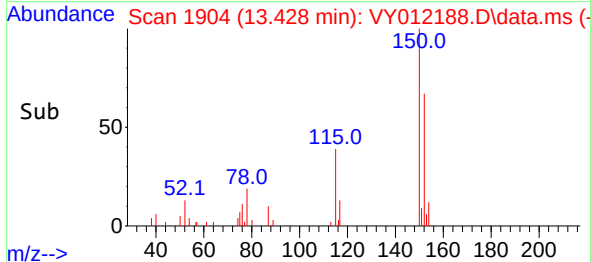
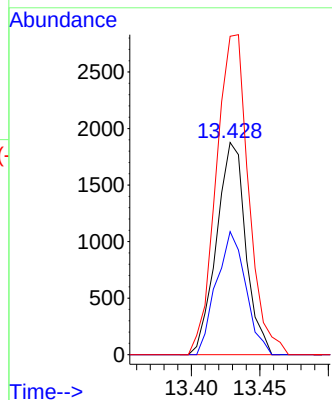
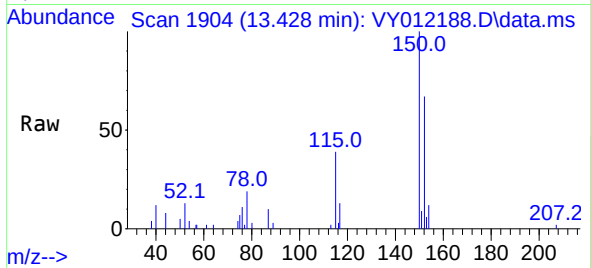




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1903
Delta R.T. 0.006 min
Lab File: VY012188.D
Acq: 13 Jan 2023 13:27

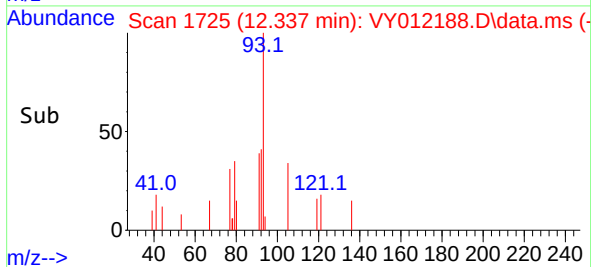
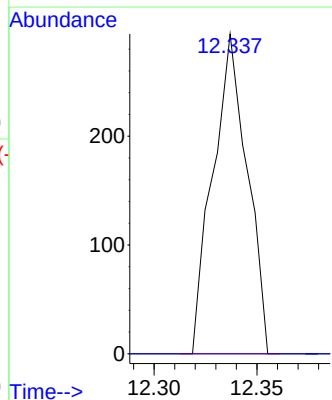
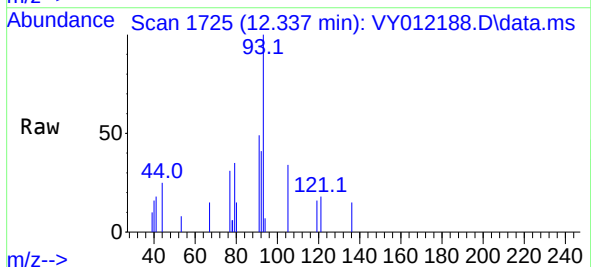
Instrument :
MSVOA_Y
ClientSampleId :
TOT-VOC-1RE

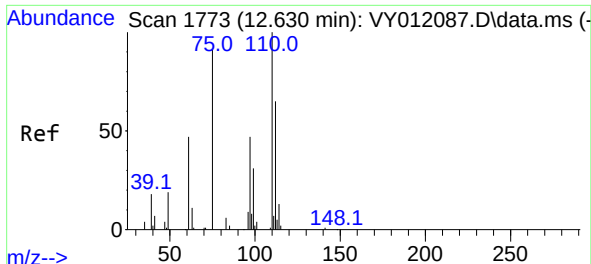
Tgt Ion:152 Resp: 2790
Ion Ratio Lower Upper
152 100
115 58.1 29.1 87.3
150 167.3 0.0 342.6



#73
Isopropylbenzene
Concen: 1.545 ug/l
RT: 12.337 min Scan# 1725
Delta R.T. 0.006 min
Lab File: VY012188.D
Acq: 13 Jan 2023 13:27

Tgt Ion:105 Resp: 341
Ion Ratio Lower Upper
105 100
120 0.0 13.2 39.6#

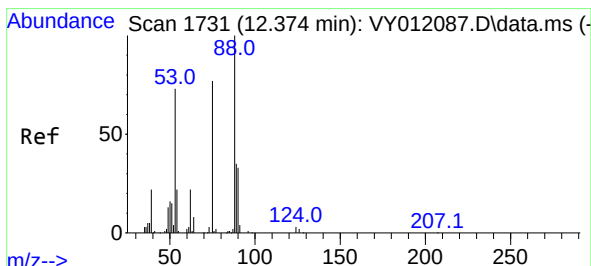
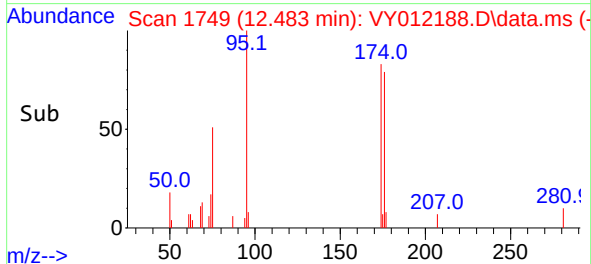
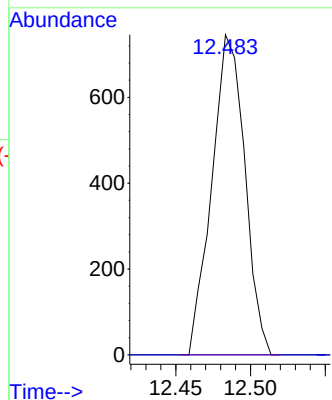
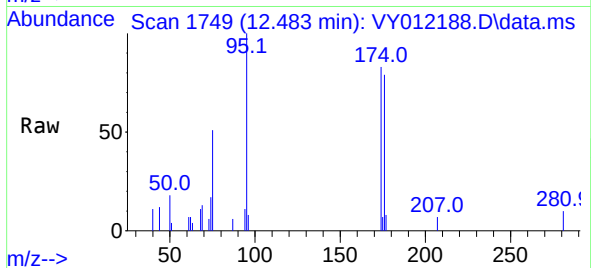




#76
1,2,3-Trichloropropane
Concen: 35.943 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.147 min
Lab File: VY012188.D
Acq: 13 Jan 2023 13:27

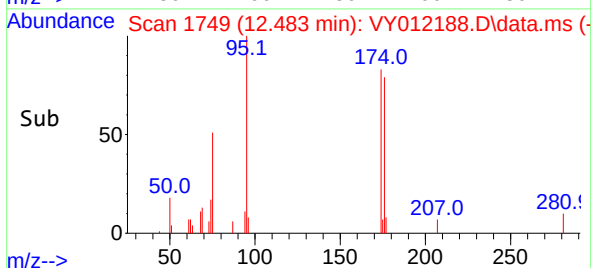
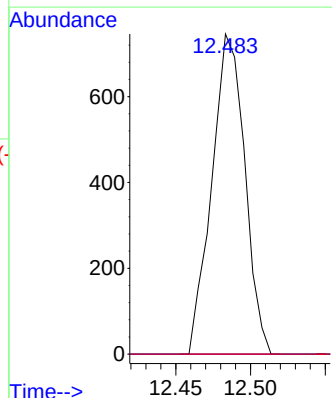
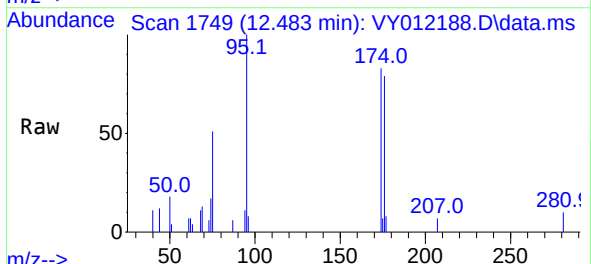
Instrument :
MSVOA_Y
ClientSampleId :
TOT-VOC-1RE

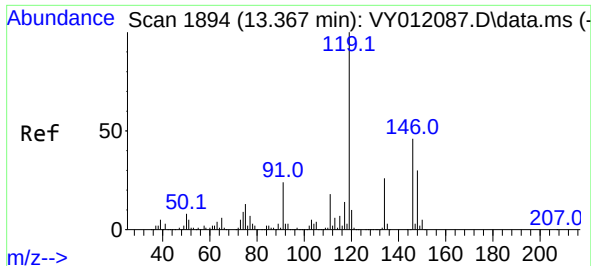
Tgt Ion: 75 Resp: 1145
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#81
trans-1,4-Dichloro-2-butene
Concen: 79.823 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.109 min
Lab File: VY012188.D
Acq: 13 Jan 2023 13:27

Tgt Ion: 75 Resp: 1145
Ion Ratio Lower Upper
75 100
53 0.0 72.5 108.7#
89 0.0 37.0 55.4#

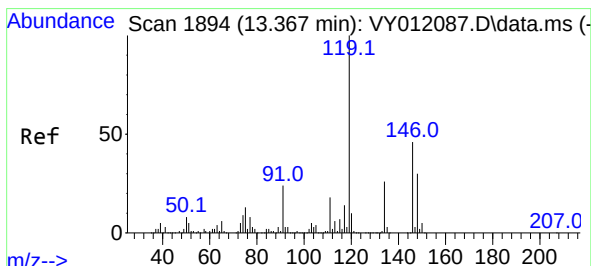
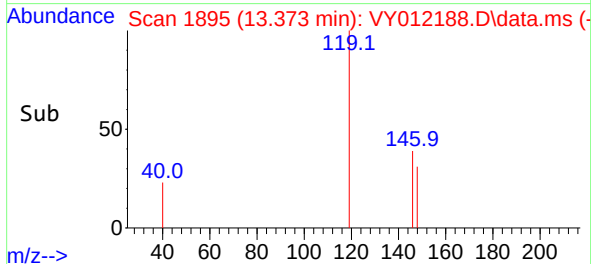
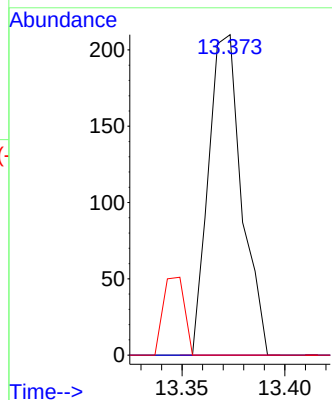
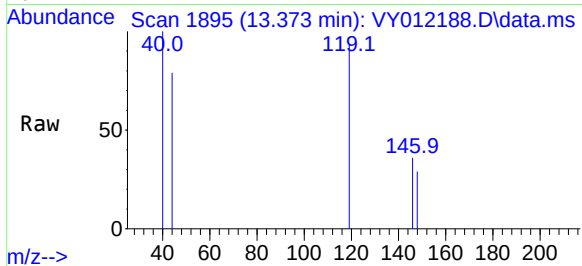




#86
p-Isopropyltoluene
Concen: 1.142 ug/l
RT: 13.373 min Scan# 1895
Delta R.T. 0.006 min
Lab File: VY012188.D
Acq: 13 Jan 2023 13:27

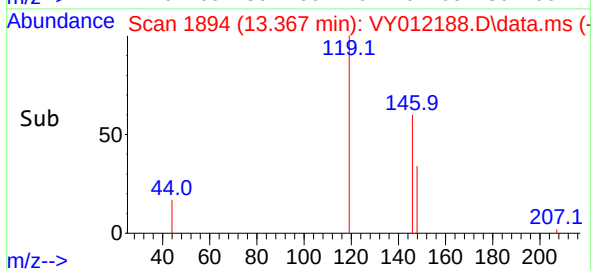
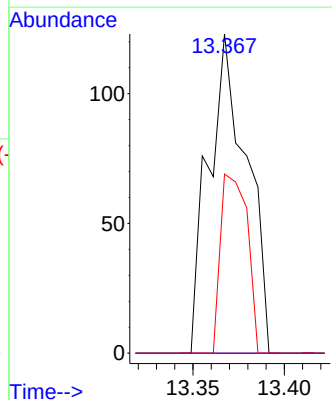
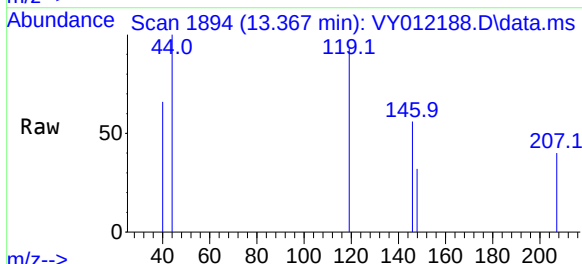
Instrument :
MSVOA_Y
ClientSampleId :
TOT-VOC-1RE

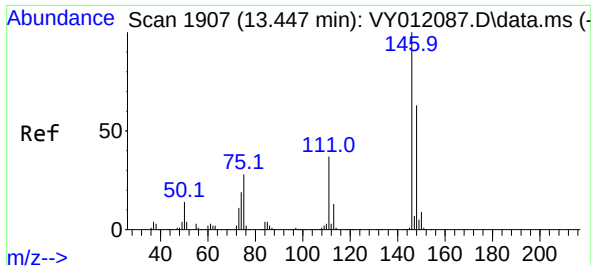
Tgt Ion:119 Resp: 236
Ion Ratio Lower Upper
119 100
134 0.0 13.0 39.0#
91 0.0 11.9 35.9#



#87
1,3-Dichlorobenzene
Concen: 1.686 ug/l
RT: 13.367 min Scan# 1894
Delta R.T. 0.000 min
Lab File: VY012188.D
Acq: 13 Jan 2023 13:27

Tgt Ion:146 Resp: 178
Ion Ratio Lower Upper
146 100
111 0.0 19.7 59.0#
148 39.3 32.0 96.0

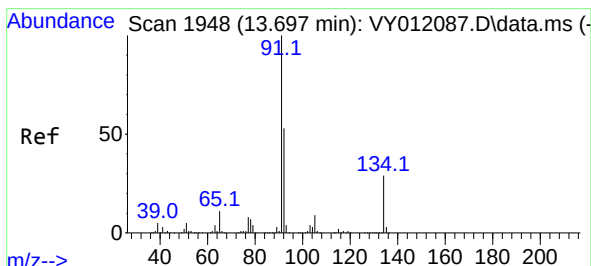
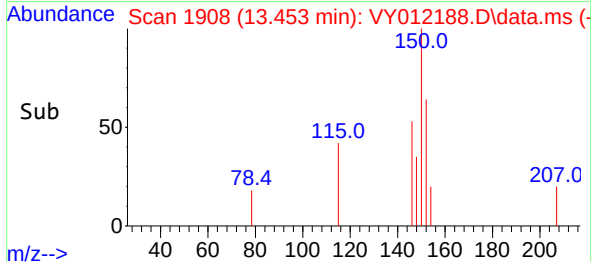
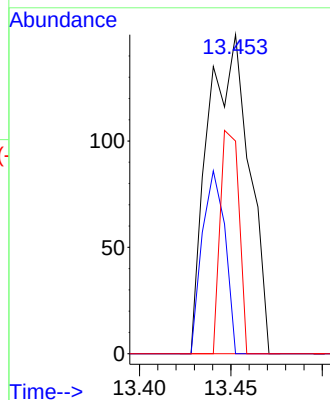
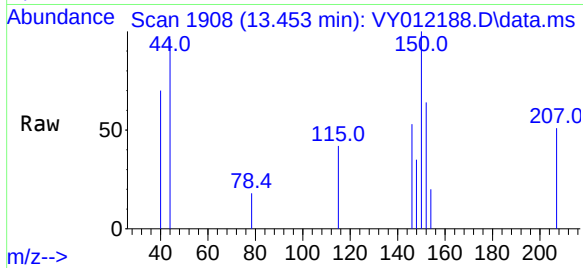




#88
1,4-Dichlorobenzene
Concen: 2.238 ug/l
RT: 13.453 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY012188.D
Acq: 13 Jan 2023 13:27

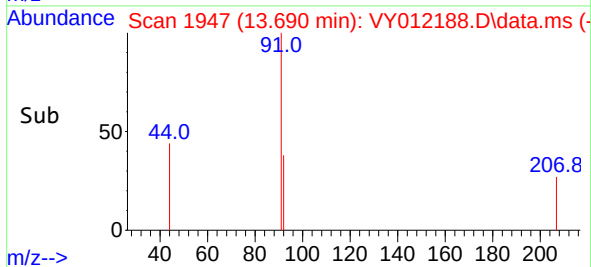
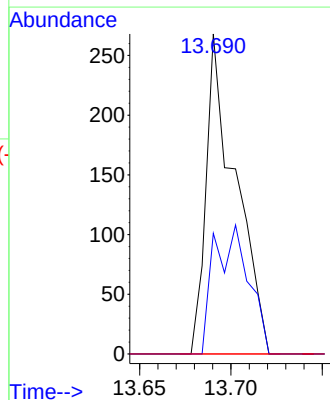
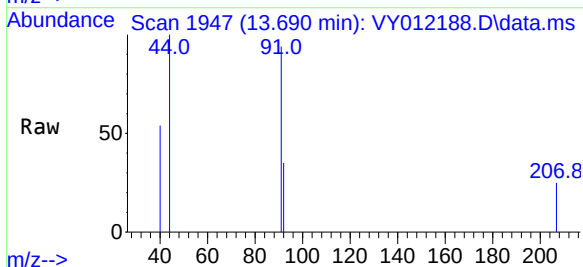
Instrument :
MSVOA_Y
ClientSampleId :
TOT-VOC-1RE

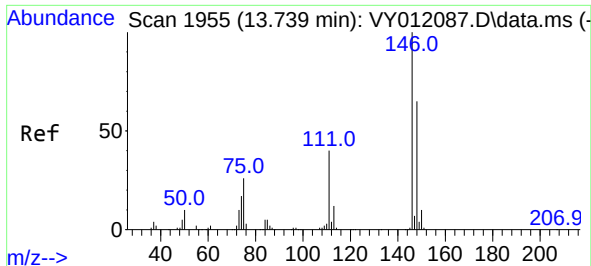
Tgt Ion:146 Resp: 236
Ion Ratio Lower Upper
146 100
111 31.8 19.6 58.7
148 31.8 31.9 95.7#



#89
n-Butylbenzene
Concen: 1.665 ug/l
RT: 13.690 min Scan# 1947
Delta R.T. -0.007 min
Lab File: VY012188.D
Acq: 13 Jan 2023 13:27

Tgt Ion: 91 Resp: 298
Ion Ratio Lower Upper
91 100
92 47.7 26.8 80.4
134 0.0 13.3 39.8#





#91

1,2-Dichlorobenzene

Concen: 1.648 ug/l

RT: 13.739 min Scan# 1955

Delta R.T. 0.000 min

Lab File: VY012188.D

Acq: 13 Jan 2023 13:27

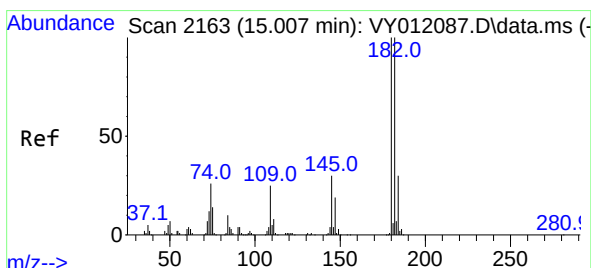
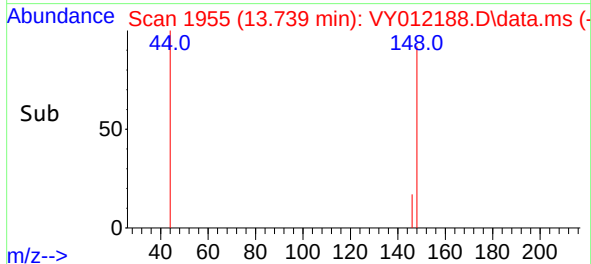
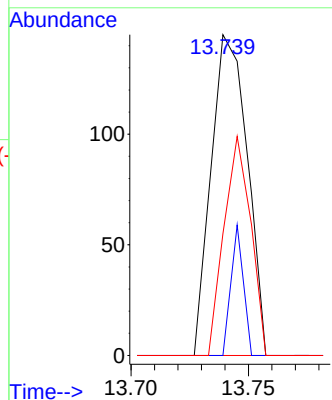
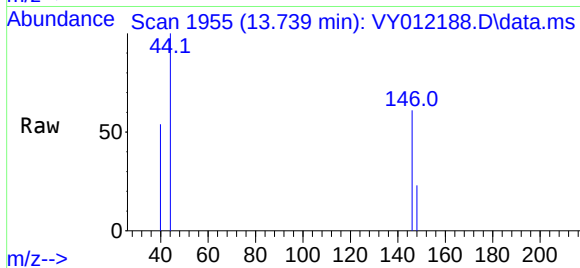
Instrument :

MSVOA_Y

ClientSampleId :

TOT-VOC-1RE

Tgt Ion:146	Resp:	155
Ion	Ratio	Lower Upper
146	100	
111	14.2	20.3 60.8#
148	50.3	31.8 95.4



#93

1,2,4-Trichlorobenzene

Concen: 2.729 ug/l

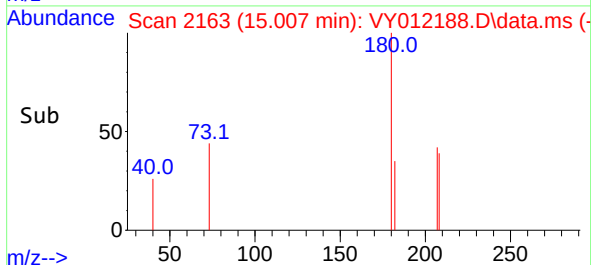
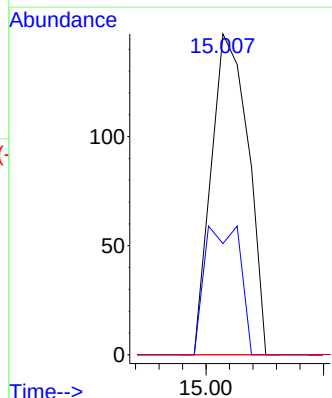
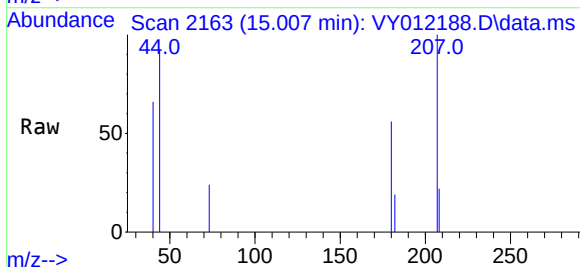
RT: 15.007 min Scan# 2163

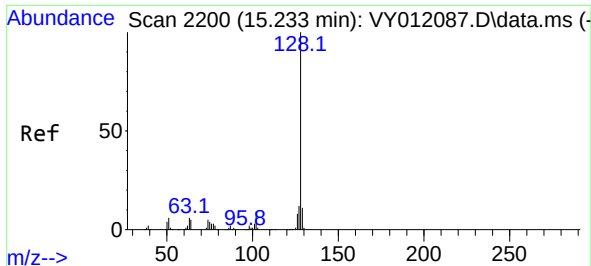
Delta R.T. 0.000 min

Lab File: VY012188.D

Acq: 13 Jan 2023 13:27

Tgt Ion:180	Resp:	160
Ion	Ratio	Lower Upper
180	100	
182	38.8	48.1 144.3#
145	0.0	15.4 46.4#

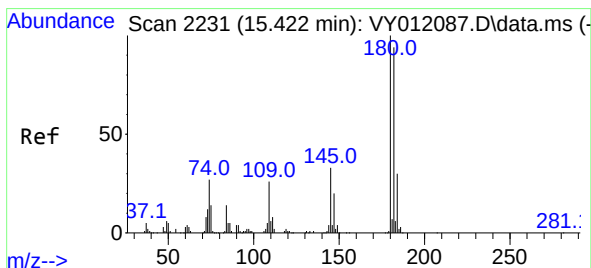
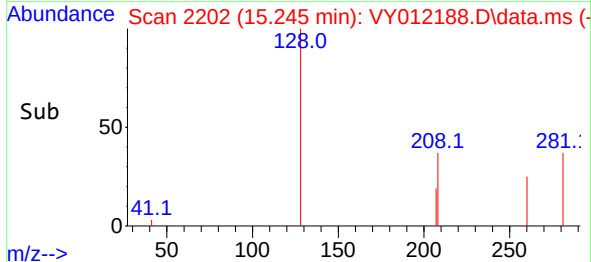
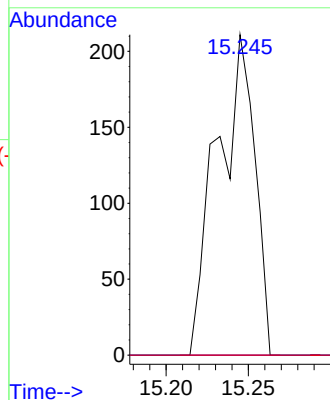
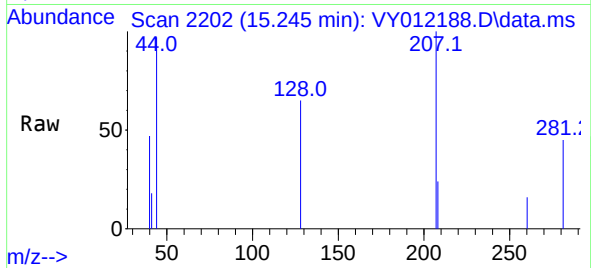




#95
Naphthalene
Concen: 2.913 ug/l
RT: 15.245 min Scan# 211
Delta R.T. 0.012 min
Lab File: VY012188.D
Acq: 13 Jan 2023 13:27

Instrument :
MSVOA_Y
ClientSampleId :
TOT-VOC-1RE

Tgt Ion:128 Resp: 338
Ion Ratio Lower Upper
128 100
127 0.0 10.2 15.2#
129 0.0 8.8 13.2#



#96
1,2,3-Trichlorobenzene
Concen: 1.923 ug/l
RT: 15.428 min Scan# 2232
Delta R.T. 0.006 min
Lab File: VY012188.D
Acq: 13 Jan 2023 13:27

Tgt Ion:180 Resp: 98
Ion Ratio Lower Upper
180 100
182 119.4 47.9 143.7
145 0.0 16.1 48.2#

