

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY013023\
 Data File : VY012402.D
 Acq On : 30 Jan 2023 16:58
 Operator : KP/MD
 Sample : 01354-02
 Misc : 5.05g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VOC

Quant Time: Jan 31 01:48:55 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y011623S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 17 04:31:47 2023
 Response via : Initial Calibration

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

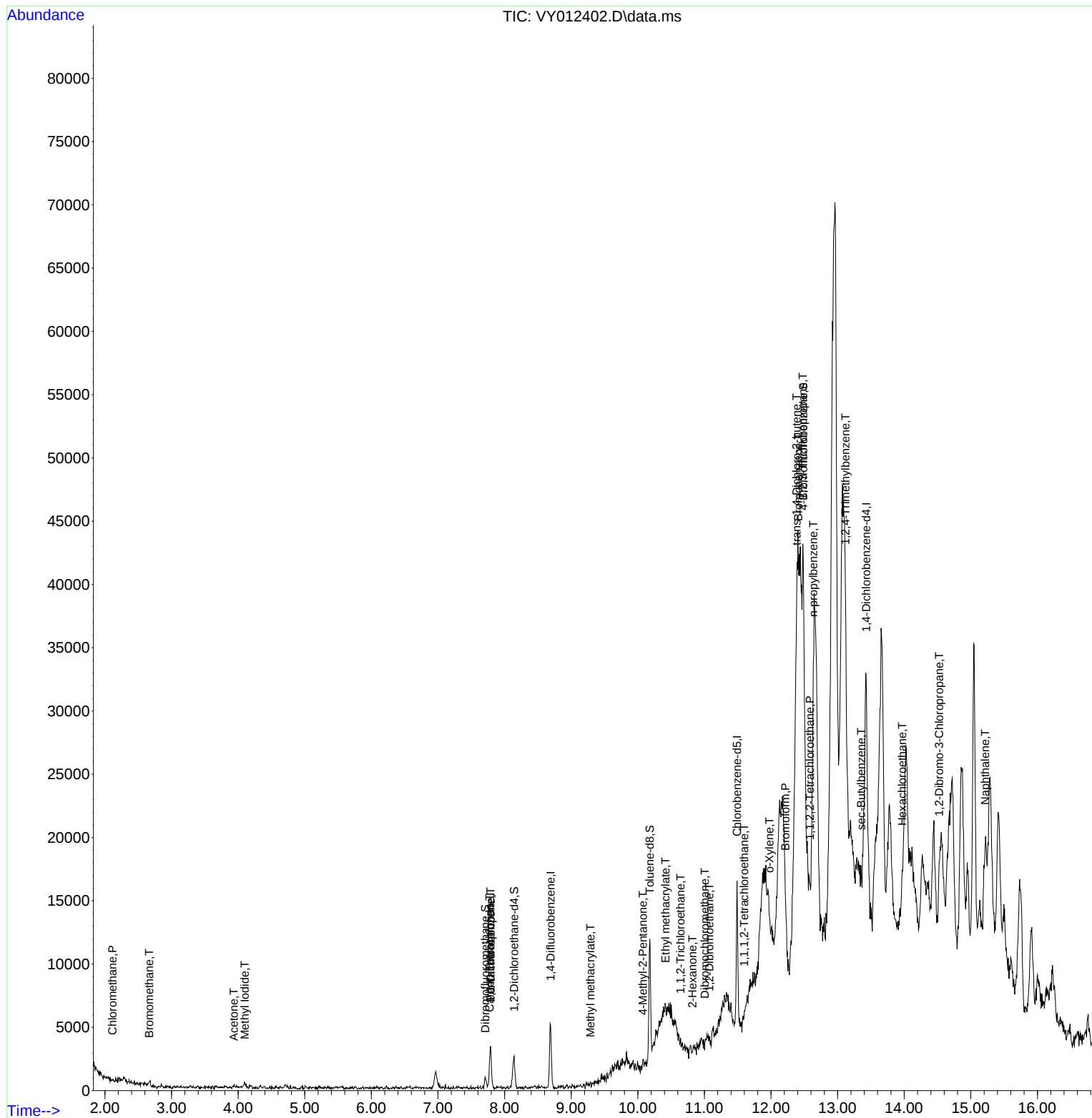
Internal Standards						
1) Pentafluorobenzene	7.789	168	3098	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	5313	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	6699	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	2698	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.142	65	2225	89.775	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 179.540%#			
35) Dibromofluoromethane	7.710	113	637	22.643	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 45.280%#			
50) Toluene-d8	10.179	98	6677	70.256	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 140.520%#			
62) 4-Bromofluorobenzene	12.483	95	2425	61.148	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 122.300%			
Target Compounds						Qvalue
3) Chloromethane	2.113	50	104	4.161	ug/l #	41
5) Bromomethane	2.662	94	189	8.380	ug/l #	77
10) Methyl Iodide	4.101	142	618	14.675	ug/l #	81
16) Acetone	3.936	43	137	15.881	ug/l #	40
20) Methylene Chloride	4.704	84	119	Below Cal	#	32
36) 1,1-Dichloropropene	7.789	75	107	2.238	ug/l #	41
38) Carbon Tetrachloride	7.777	117	336	5.441	ug/l #	14
48) Methyl methacrylate	9.289	41	63	3.487	ug/l #	58
51) 4-Methyl-2-Pentanone	10.075	43	363	17.360	ug/l #	34
55) 1,1,2-Trichloroethane	10.642	97	109	3.980	ug/l #	46
56) Ethyl methacrylate	10.416	69	139	3.869	ug/l #	1
59) 2-Hexanone	10.819	43	61	3.832	ug/l #	23
60) Dibromochloromethane	11.008	129	97	2.670	ug/l #	11
61) 1,2-Dibromoethane	11.075	107	85	3.216	ug/l #	74
66) 1,1,1,2-Tetrachloroethane	11.599	131	297	5.741	ug/l #	37
69) o-Xylene	11.977	106	155	1.675	ug/l	38
71) Bromoform	12.215	173	159	4.810	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.587	83	166	5.417	ug/l #	1
76) 1,2,3-Trichloropropane	12.477	75	1894	76.343	ug/l #	100
77) Bromobenzene	12.410	156	65721	1403.867	ug/l #	1
78) n-propylbenzene	12.636	91	362	1.590	ug/l	86
81) trans-1,4-Dichloro-2-b...	12.386	75	232	19.268	ug/l #	1
84) 1,2,4-Trimethylbenzene	13.117	105	718	4.305	ug/l	89
85) sec-Butylbenzene	13.355	105	239	1.139	ug/l	98
90) Hexachloroethane	13.971	117	116	3.504	ug/l #	9
92) 1,2-Dibromo-3-Chloropr...	14.525	75	20	3.158	ug/l #	1
95) Naphthalene	15.214	128	327	3.112	ug/l #	1

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

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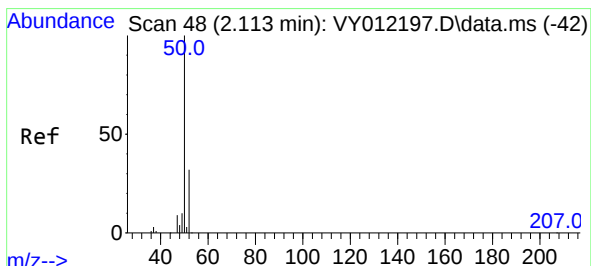
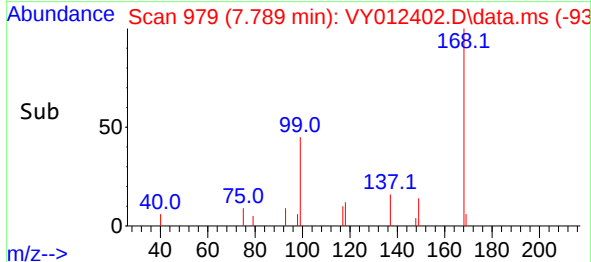
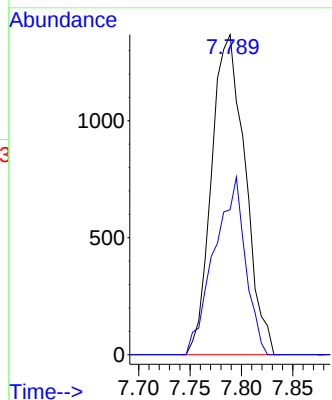
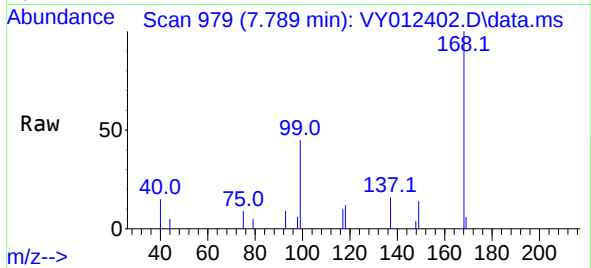




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY012402.D
Acq: 30 Jan 2023 16:58

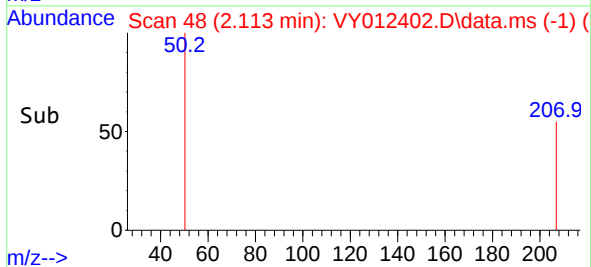
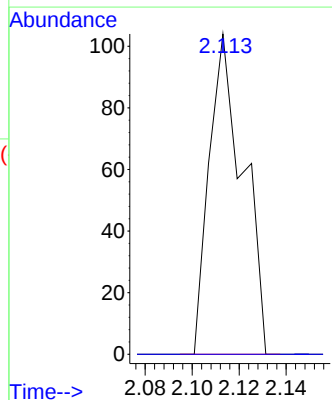
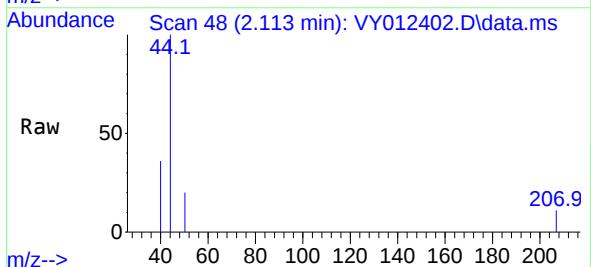
Instrument :
MSVOA_Y
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VOC

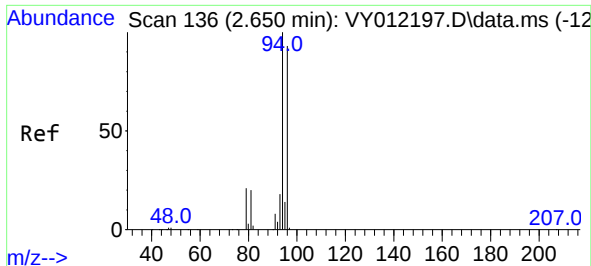
Tgt Ion:168 Resp: 3098
Ion Ratio Lower Upper
168 100
99 45.3 44.0 66.0



#3
Chloromethane
Concen: 4.161 ug/l
RT: 2.113 min Scan# 48
Delta R.T. 0.000 min
Lab File: VY012402.D
Acq: 30 Jan 2023 16:58

Tgt Ion: 50 Resp: 104
Ion Ratio Lower Upper
50 100
52 0.0 26.8 40.2#

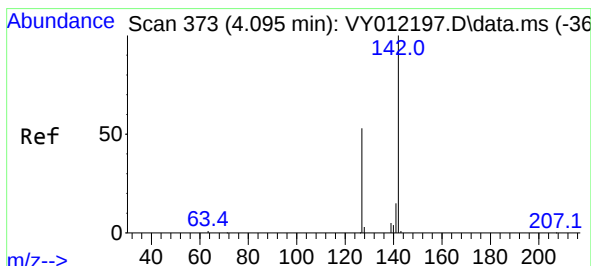
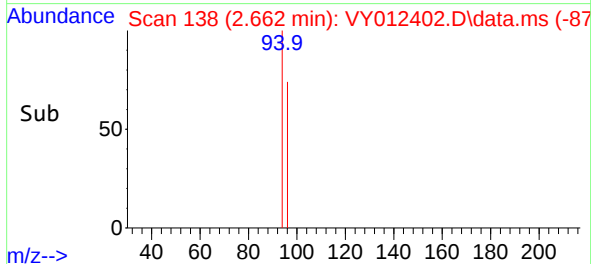
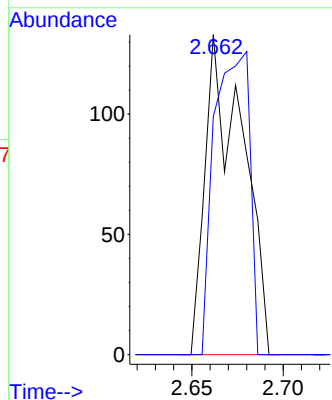
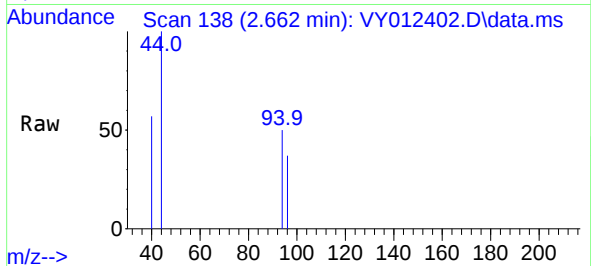




#5
Bromomethane
Concen: 8.380 ug/l
RT: 2.662 min Scan# 11
Delta R.T. 0.012 min
Lab File: VY012402.D
Acq: 30 Jan 2023 16:58

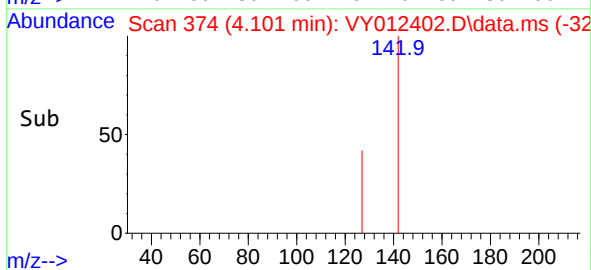
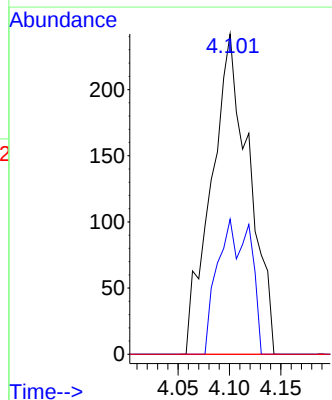
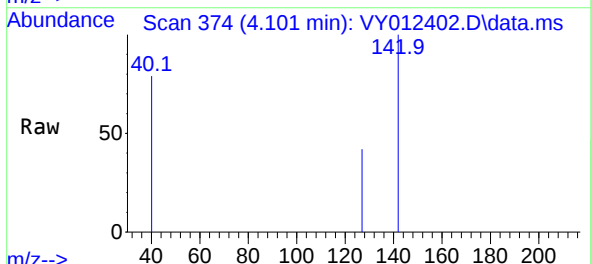
Instrument :
MSVOA_Y
ClientSampleId :
VOC

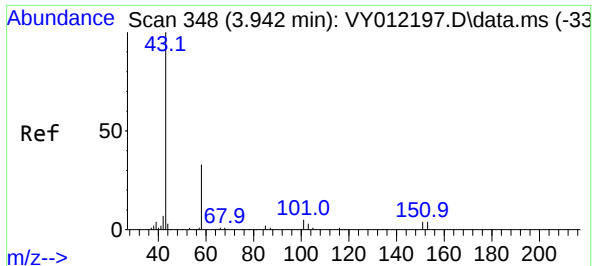
Tgt Ion: 94 Resp: 189
Ion Ratio Lower Upper
94 100
96 74.4 77.4 116.2#



#10
Methyl Iodide
Concen: 14.675 ug/l
RT: 4.101 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY012402.D
Acq: 30 Jan 2023 16:58

Tgt Ion:142 Resp: 618
Ion Ratio Lower Upper
142 100
127 36.4 37.0 55.4#
141 0.0 11.4 17.0#

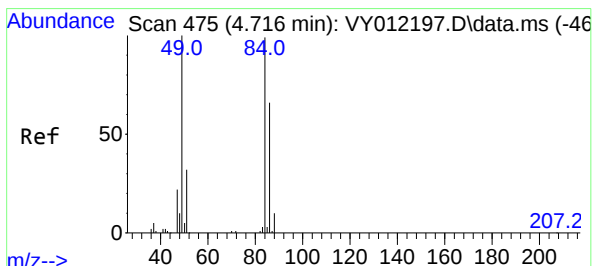
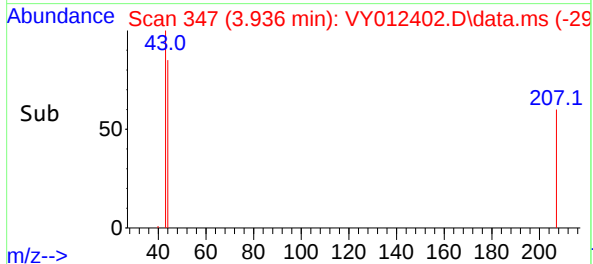
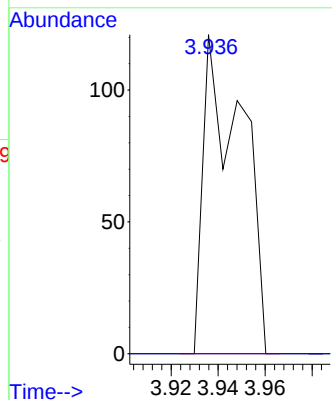
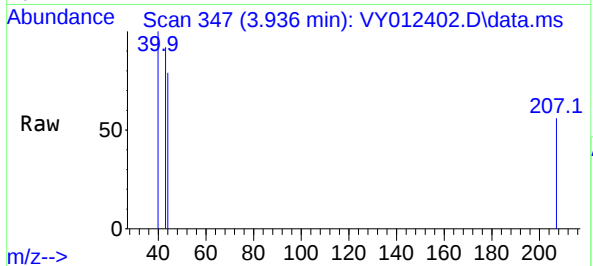




#16
Acetone
Concen: 15.881 ug/l
RT: 3.936 min Scan# 34
Delta R.T. -0.006 min
Lab File: VY012402.D
Acq: 30 Jan 2023 16:58

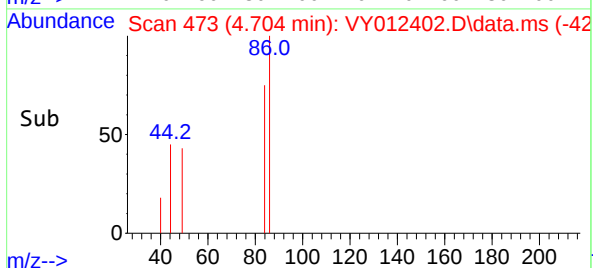
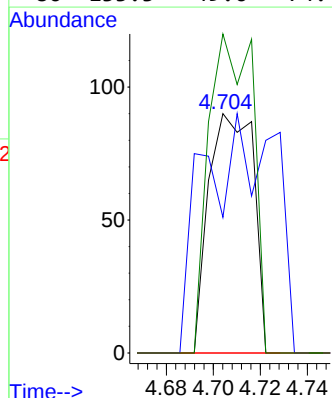
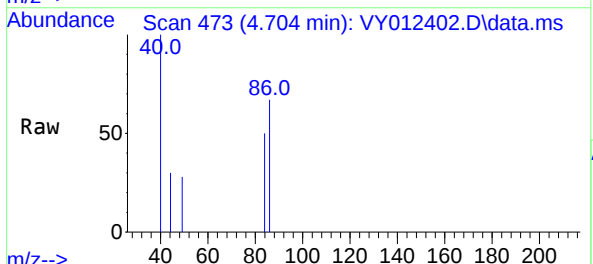
Instrument :
MSVOA_Y
ClientSampleId :
VOC

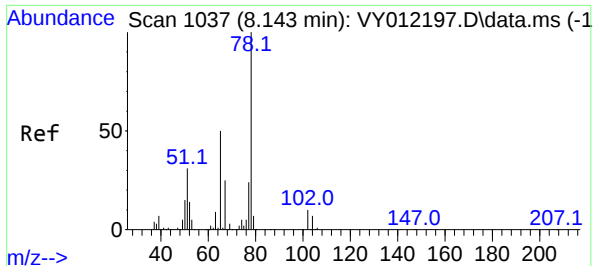
Tgt Ion: 43 Resp: 137
Ion Ratio Lower Upper
43 100
58 0.0 27.9 41.9#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.704 min Scan# 473
Delta R.T. -0.012 min
Lab File: VY012402.D
Acq: 30 Jan 2023 16:58

Tgt Ion: 84 Resp: 119
Ion Ratio Lower Upper
84 100
49 56.7 95.4 143.2#
51 0.0 29.9 44.9#
86 133.3 49.6 74.4#

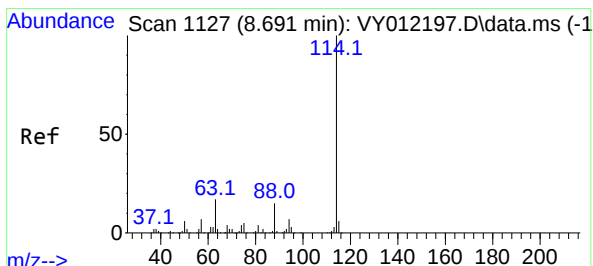
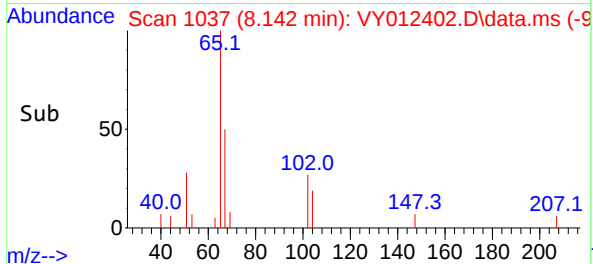
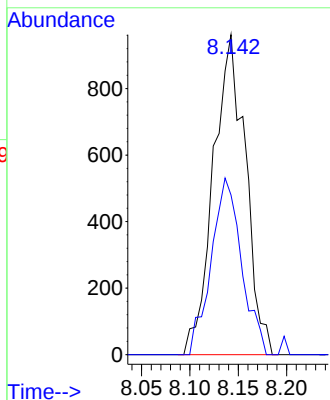
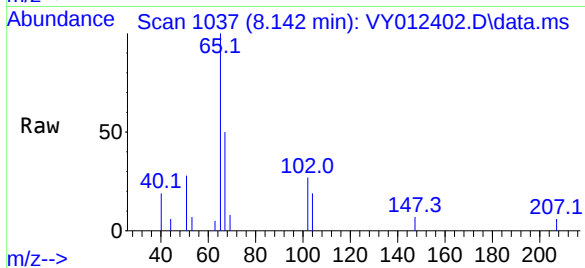




#33
1,2-Dichloroethane-d4
Concen: 89.775 ug/l
RT: 8.142 min Scan# 1037
Delta R.T. -0.001 min
Lab File: VY012402.D
Acq: 30 Jan 2023 16:58

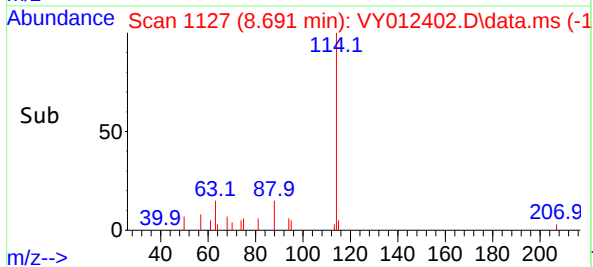
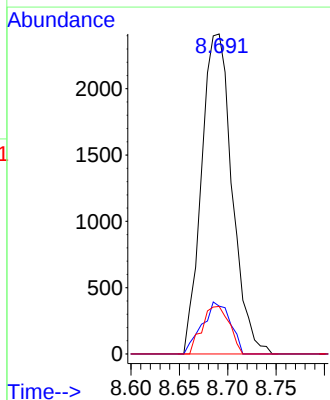
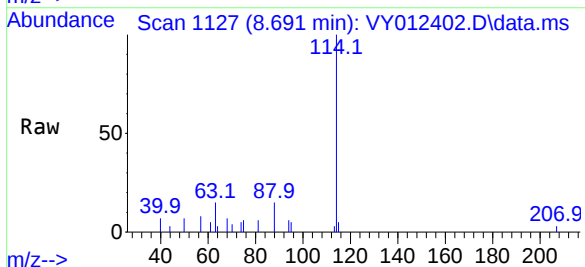
Instrument :
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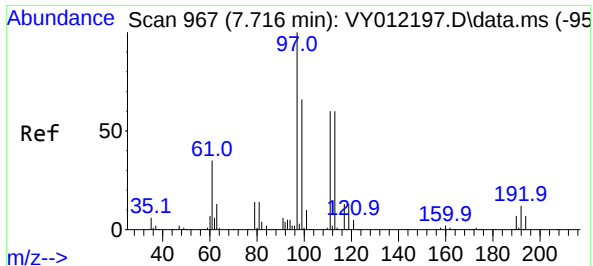
Tgt Ion: 65 Resp: 2225
Ion Ratio Lower Upper
65 100
67 52.0 0.0 103.2



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.691 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VY012402.D
Acq: 30 Jan 2023 16:58

Tgt Ion: 114 Resp: 5313
Ion Ratio Lower Upper
114 100
63 15.0 0.0 39.6
88 14.9 0.0 32.2

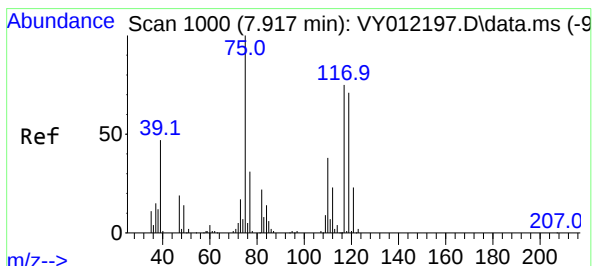
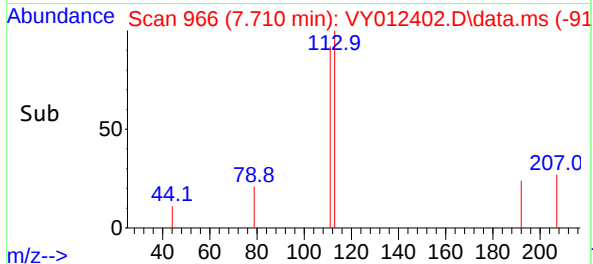
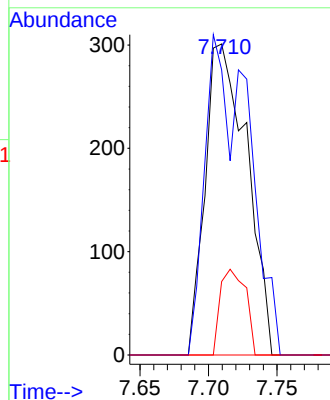
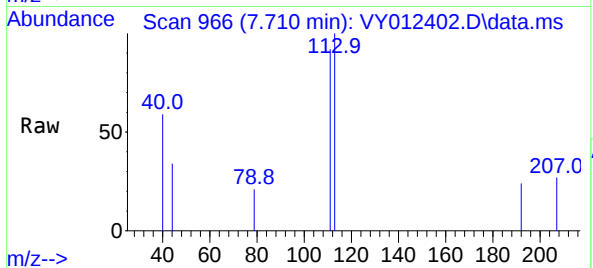




#35
Dibromofluoromethane
Concen: 22.643 ug/l
RT: 7.710 min Scan# 910
Delta R.T. -0.006 min
Lab File: VY012402.D
Acq: 30 Jan 2023 16:58

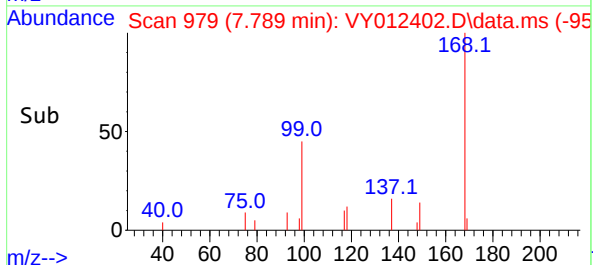
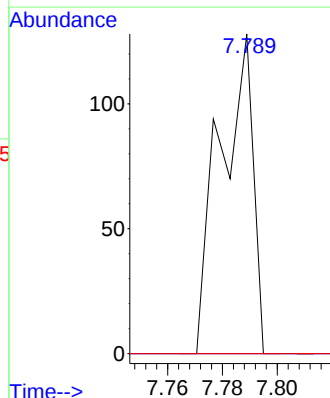
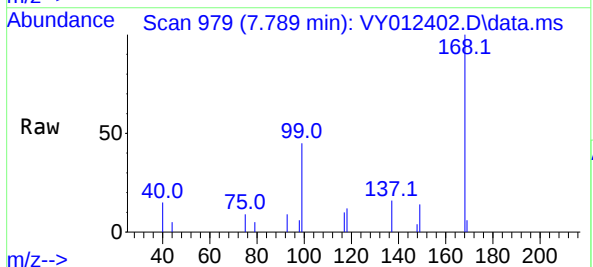
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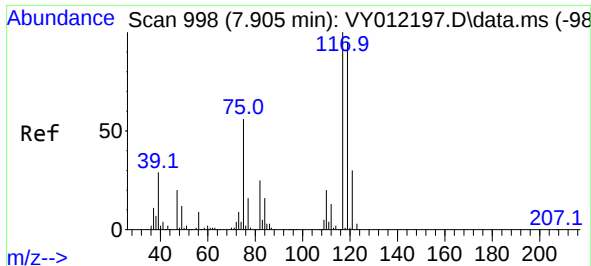
Tgt Ion:113 Resp: 637
Ion Ratio Lower Upper
113 100
111 59.0 83.0 124.4#
192 16.6 16.0 24.0



#36
1,1-Dichloropropene
Concen: 2.238 ug/l
RT: 7.789 min Scan# 979
Delta R.T. -0.128 min
Lab File: VY012402.D
Acq: 30 Jan 2023 16:58

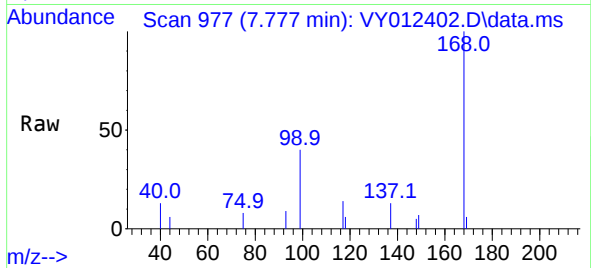
Tgt Ion: 75 Resp: 107
Ion Ratio Lower Upper
75 100
110 0.0 18.1 54.1#
77 0.0 25.1 37.7#



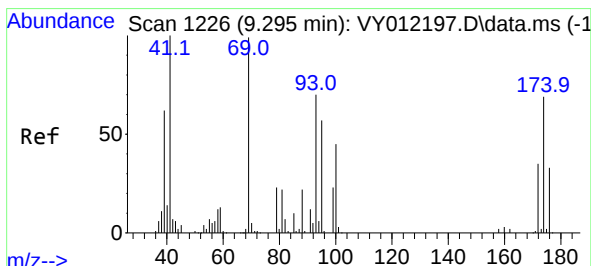
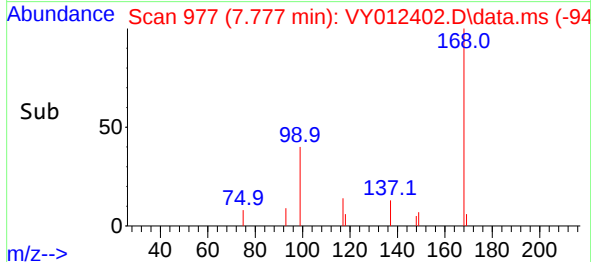
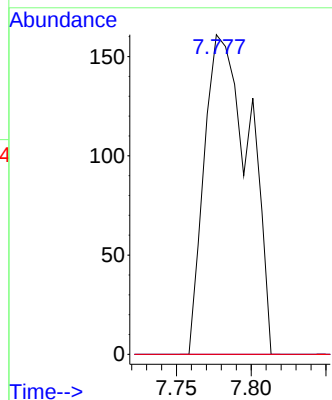


#38
Carbon Tetrachloride
Concen: 5.441 ug/l
RT: 7.777 min Scan# 91
Delta R.T. -0.122 min
Lab File: VY012402.D
Acq: 30 Jan 2023 16:58

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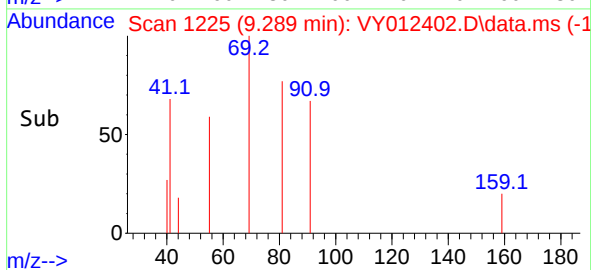
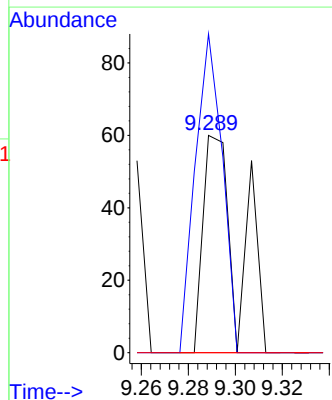
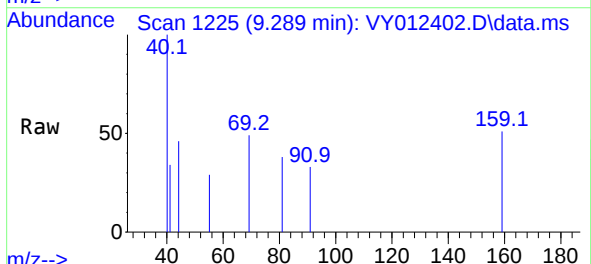


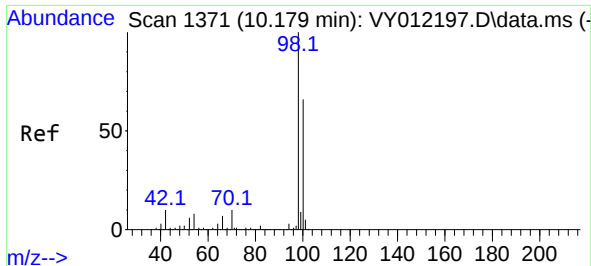
Tgt Ion:117 Resp: 336
Ion Ratio Lower Upper
117 100
119 0.0 73.8 110.8#
121 0.0 25.2 37.8#



#48
Methyl methacrylate
Concen: 3.487 ug/l
RT: 9.289 min Scan# 1225
Delta R.T. -0.006 min
Lab File: VY012402.D
Acq: 30 Jan 2023 16:58

Tgt Ion: 41 Resp: 63
Ion Ratio Lower Upper
41 100
69 111.1 74.2 111.2
39 0.0 46.3 69.5#

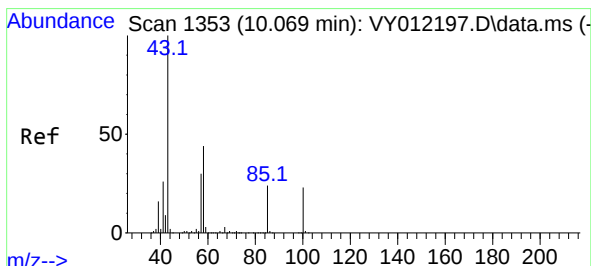
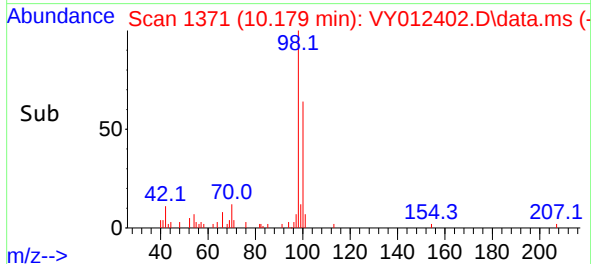
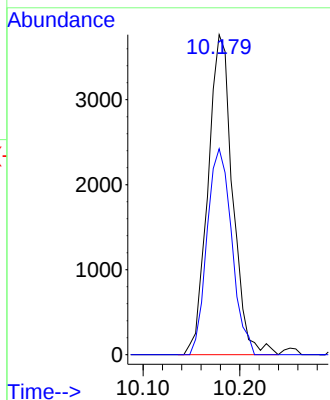
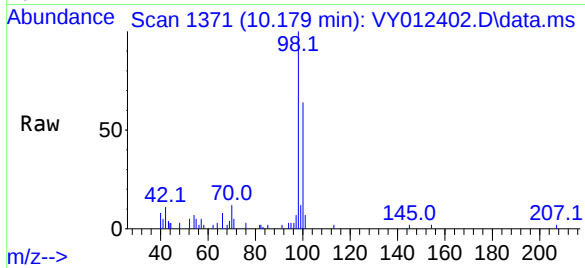




#50
Toluene-d8
Concen: 70.256 ug/l
RT: 10.179 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY012402.D
Acq: 30 Jan 2023 16:58

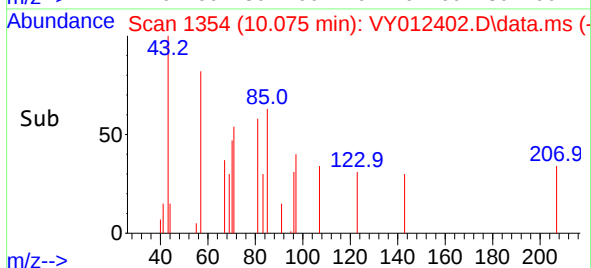
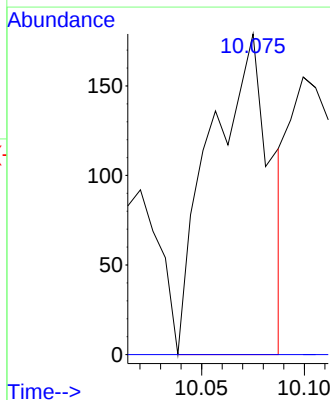
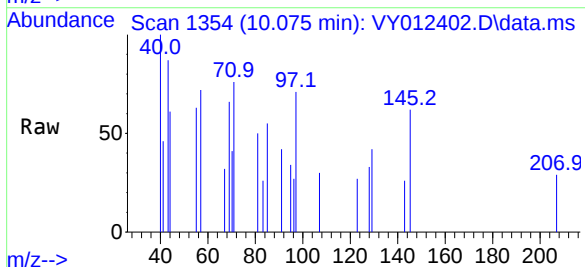
Instrument :
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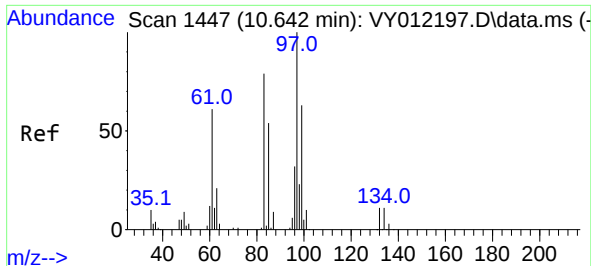
Tgt Ion: 98 Resp: 6677
Ion Ratio Lower Upper
98 100
100 64.4 51.9 77.9



#51
4-Methyl-2-Pentanone
Concen: 17.360 ug/l
RT: 10.075 min Scan# 1354
Delta R.T. 0.006 min
Lab File: VY012402.D
Acq: 30 Jan 2023 16:58

Tgt Ion: 43 Resp: 363
Ion Ratio Lower Upper
43 100
58 0.0 32.9 49.3#

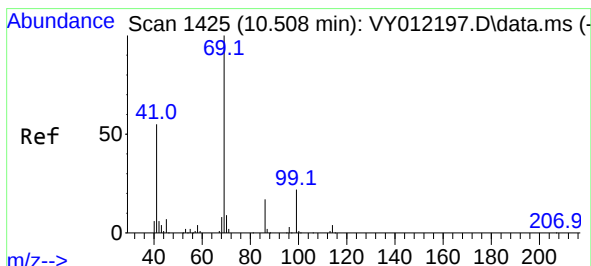
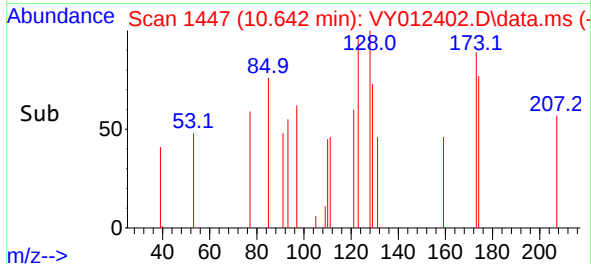
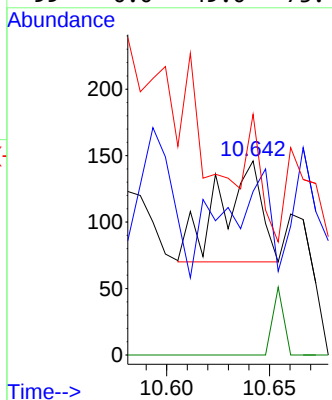
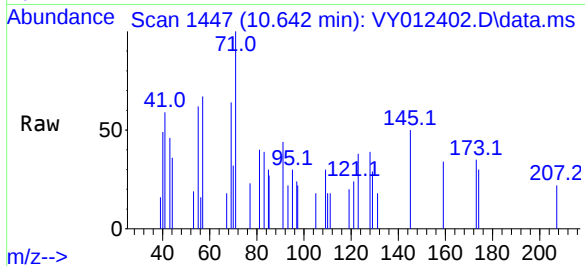




#55
1,1,2-Trichloroethane
Concen: 3.980 ug/l
RT: 10.642 min Scan# 1410
Delta R.T. 0.000 min
Lab File: VY012402.D
Acq: 30 Jan 2023 16:58

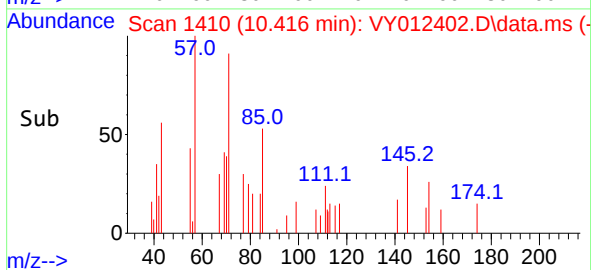
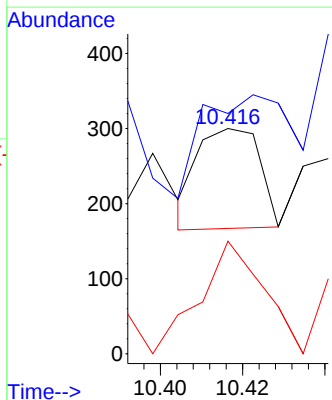
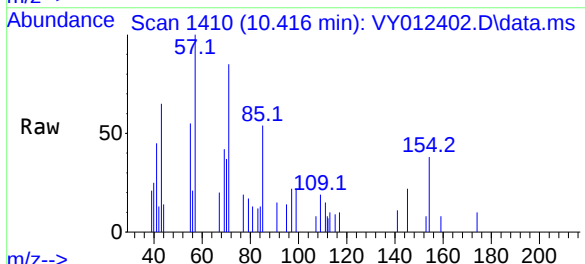
Instrument :
MSVOA_Y
ClientSampleId :
VOC

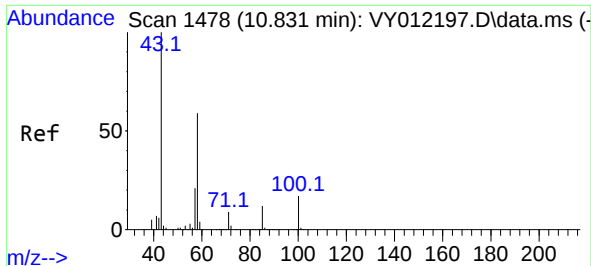
Tgt Ion:	97	Resp:	109
Ion	Ratio	Lower	Upper
97	100		
83	78.9	67.7	101.5
85	126.3	43.8	65.8#
99	0.0	49.0	73.4#



#56
Ethyl methacrylate
Concen: 3.869 ug/l
RT: 10.416 min Scan# 1410
Delta R.T. -0.092 min
Lab File: VY012402.D
Acq: 30 Jan 2023 16:58

Tgt Ion:	69	Resp:	139
Ion	Ratio	Lower	Upper
69	100		
41	148.9	48.9	73.3#
39	115.8	25.9	38.9#

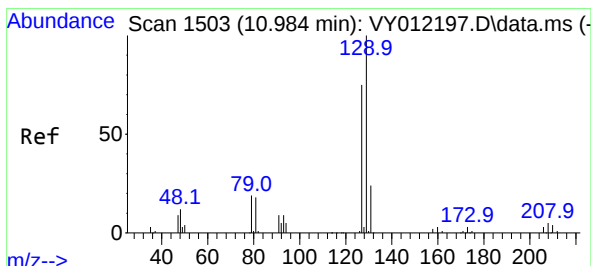
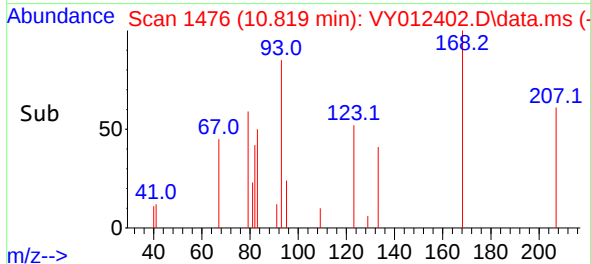
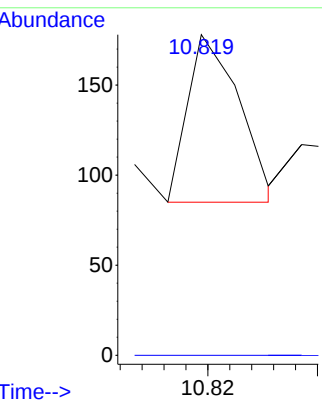
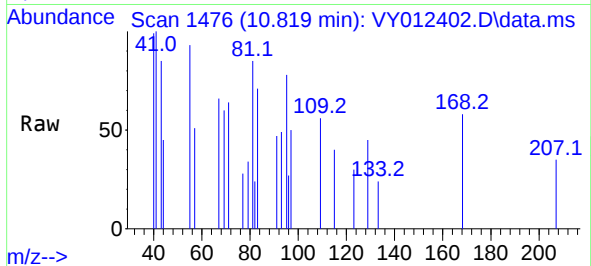




#59
2-Hexanone
Concen: 3.832 ug/l
RT: 10.819 min Scan# 1476
Delta R.T. -0.012 min
Lab File: VY012402.D
Acq: 30 Jan 2023 16:58

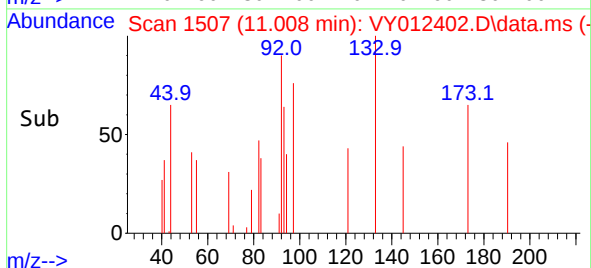
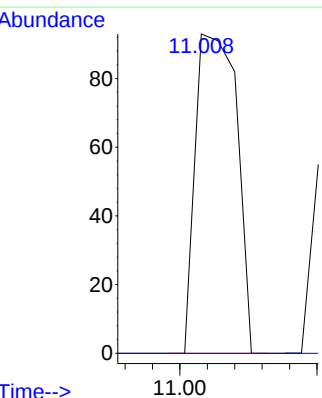
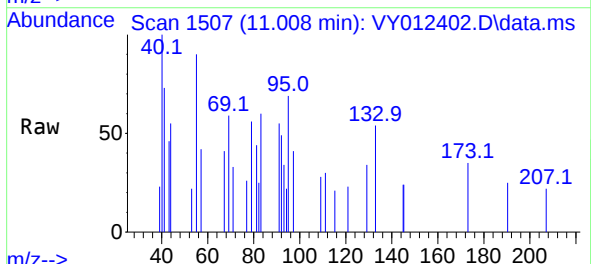
Instrument :
MSVOA_Y
ClientSampleId :
VOC

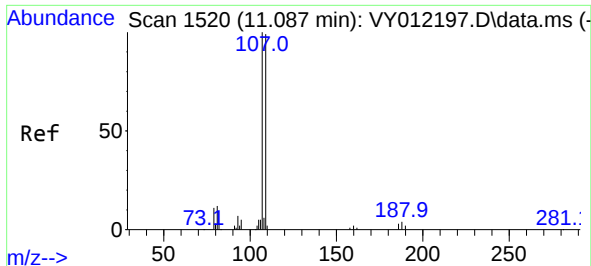
Tgt Ion: 43 Resp: 61
Ion Ratio Lower Upper
43 100
58 0.0 28.4 85.2#



#60
Dibromochloromethane
Concen: 2.670 ug/l
RT: 11.008 min Scan# 1507
Delta R.T. 0.024 min
Lab File: VY012402.D
Acq: 30 Jan 2023 16:58

Tgt Ion: 129 Resp: 97
Ion Ratio Lower Upper
129 100
127 0.0 38.9 116.6#

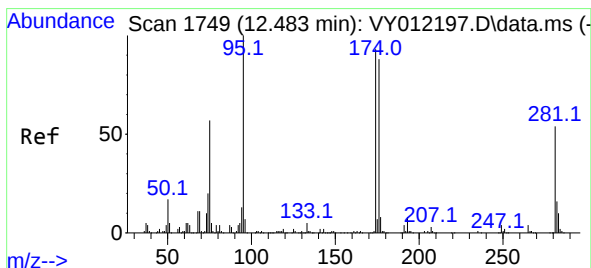
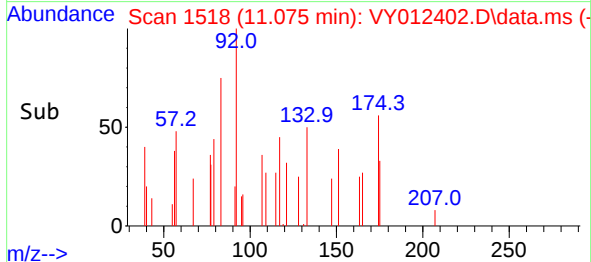
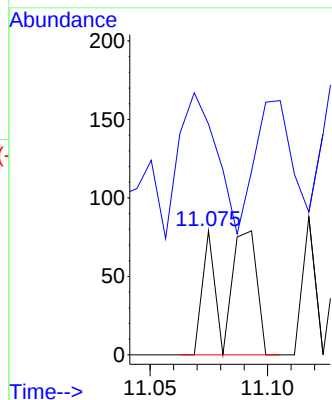
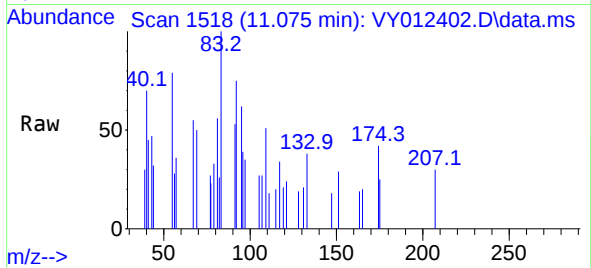




#61
1,2-Dibromoethane
Concen: 3.216 ug/l
RT: 11.075 min Scan# 11
Delta R.T. -0.012 min
Lab File: VY012402.D
Acq: 30 Jan 2023 16:58

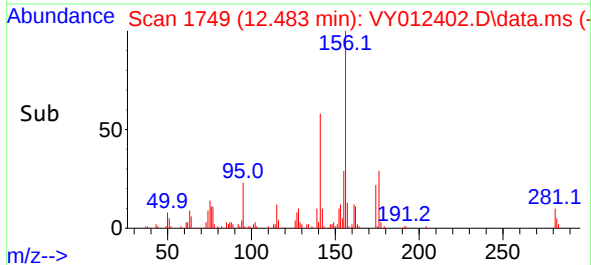
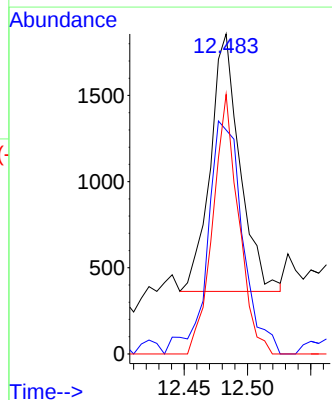
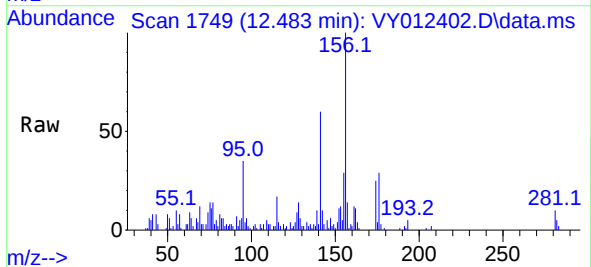
Instrument :
MSVOA_Y
ClientSampleId :
VOC

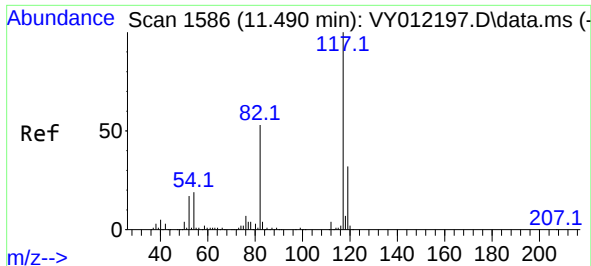
Tgt Ion:107 Resp: 85
Ion Ratio Lower Upper
107 100
109 120.0 75.8 113.6#



#62
4-Bromofluorobenzene
Concen: 61.148 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VY012402.D
Acq: 30 Jan 2023 16:58

Tgt Ion: 95 Resp: 2425
Ion Ratio Lower Upper
95 100
174 106.9 0.0 172.0
176 88.0 0.0 167.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.489 min Scan# 11

Delta R.T. -0.001 min

Lab File: VY012402.D

Acq: 30 Jan 2023 16:58

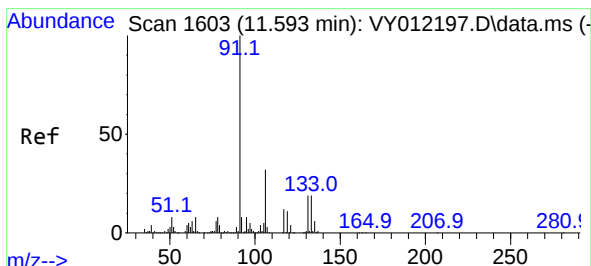
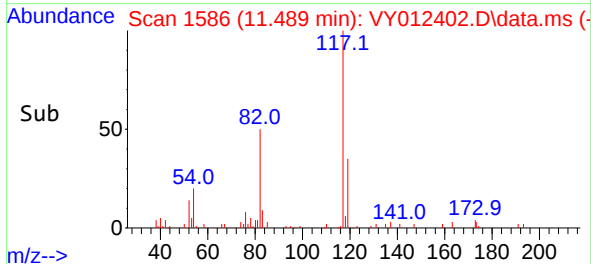
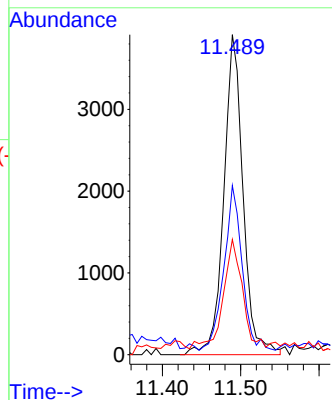
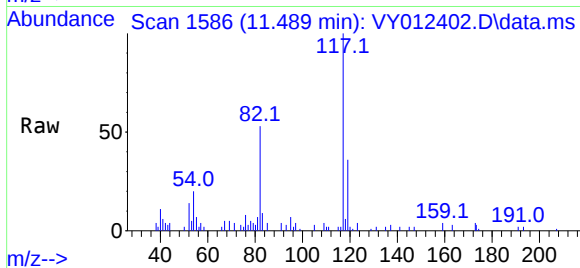
Instrument :

MSVOA_Y

ClientSampleId :

VOC

Tgt Ion:117	Resp:	6699
Ion Ratio	Lower	Upper
117	100	
82	51.0	44.8 67.2
119	33.2	25.4 38.2



#66

1,1,1,2-Tetrachloroethane

Concen: 5.741 ug/l

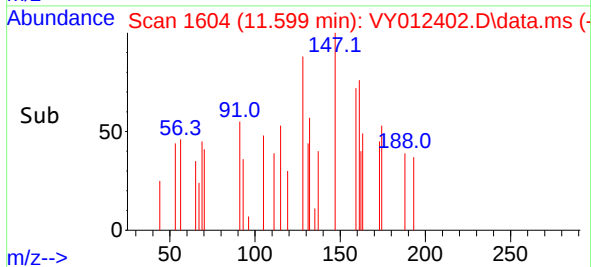
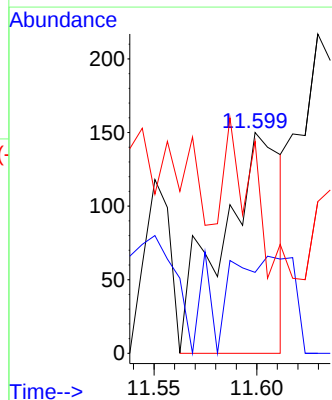
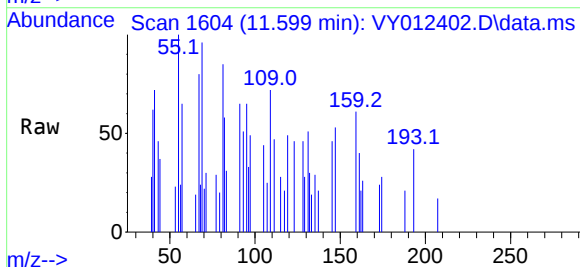
RT: 11.599 min Scan# 1604

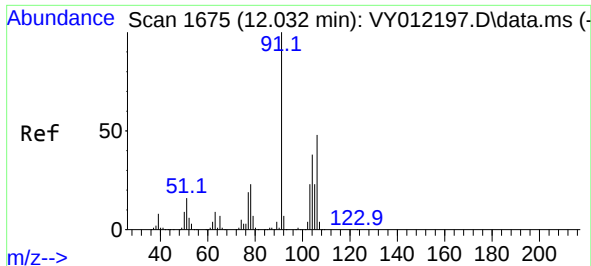
Delta R.T. 0.012 min

Lab File: VY012402.D

Acq: 30 Jan 2023 16:58

Tgt Ion:131	Resp:	297
Ion Ratio	Lower	Upper
131	100	
133	45.8	47.3 142.0#
119	0.0	32.1 96.3#

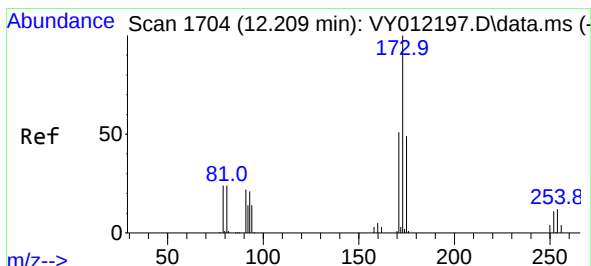
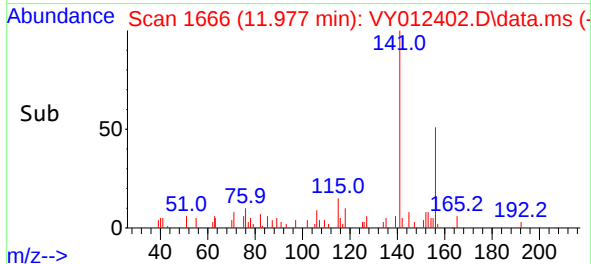
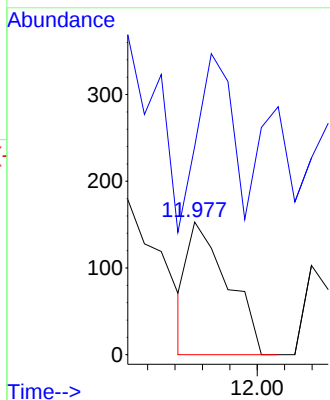
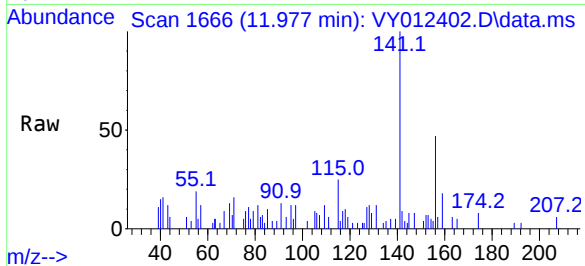




#69
o-Xylene
Concen: 1.675 ug/l
RT: 11.977 min Scan# 1
Delta R.T. -0.049 min
Lab File: VY012402.D
Acq: 30 Jan 2023 16:58

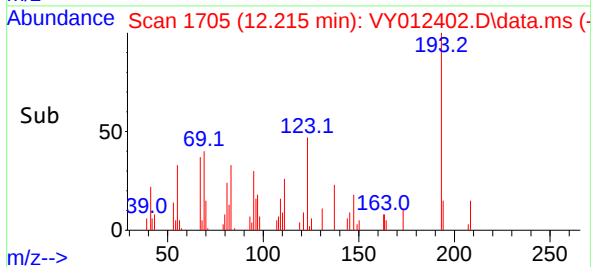
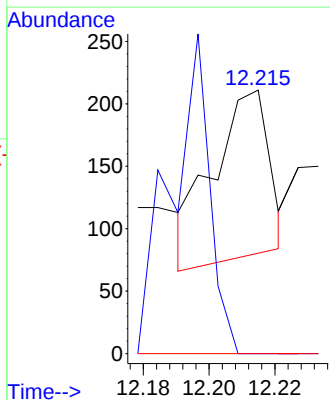
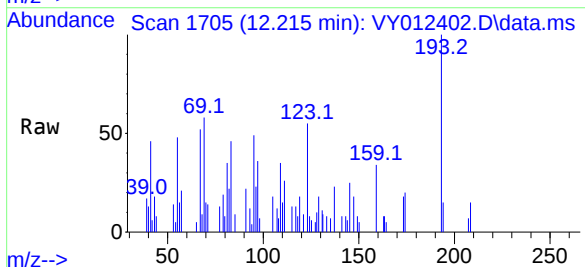
Instrument :
MSVOA_Y
ClientSampleId :
VOC

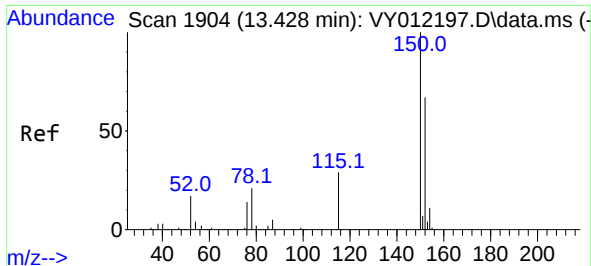
Tgt Ion:106 Resp: 155
Ion Ratio Lower Upper
106 100
91 116.8 107.5 322.4



#71
Bromoform
Concen: 4.810 ug/l
RT: 12.215 min Scan# 1705
Delta R.T. 0.006 min
Lab File: VY012402.D
Acq: 30 Jan 2023 16:58

Tgt Ion:173 Resp: 159
Ion Ratio Lower Upper
173 100
175 131.4 23.8 71.5#
254 0.0 0.1 0.1#

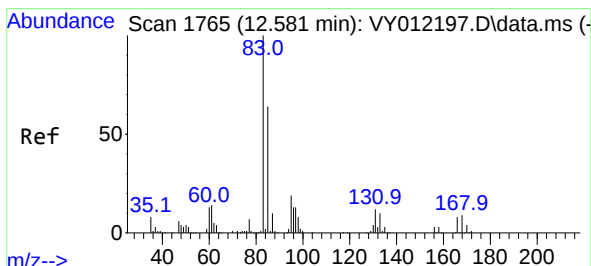
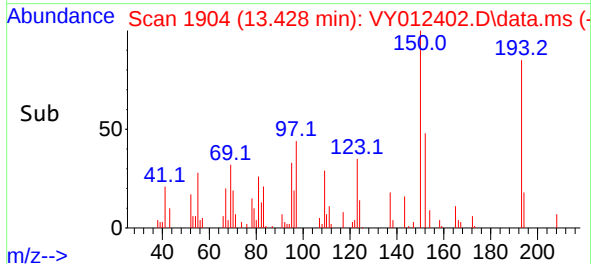
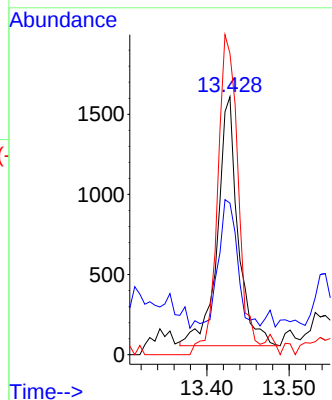
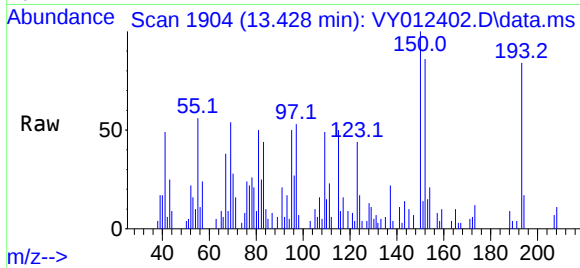




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. 0.006 min
Lab File: VY012402.D
Acq: 30 Jan 2023 16:58

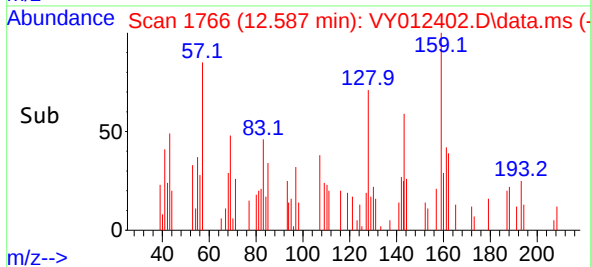
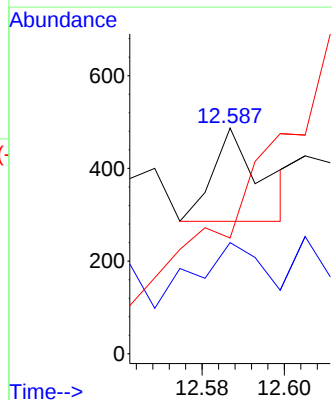
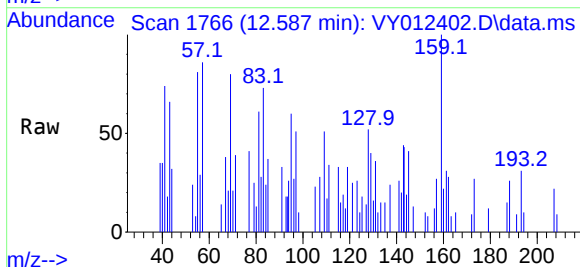
Instrument :
MSVOA_Y
ClientSampleId :
VOC

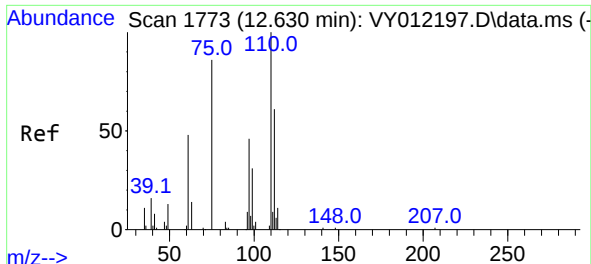
Tgt Ion:152 Resp: 2698
Ion Ratio Lower Upper
152 100
115 45.3 29.1 87.3
150 128.8 0.0 342.6



#75
1,1,2,2-Tetrachloroethane
Concen: 5.417 ug/l
RT: 12.587 min Scan# 1766
Delta R.T. 0.006 min
Lab File: VY012402.D
Acq: 30 Jan 2023 16:58

Tgt Ion: 83 Resp: 166
Ion Ratio Lower Upper
83 100
131 97.6 5.6 16.8#
85 0.0 32.3 96.8#

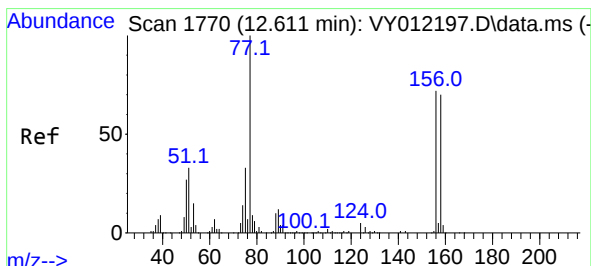
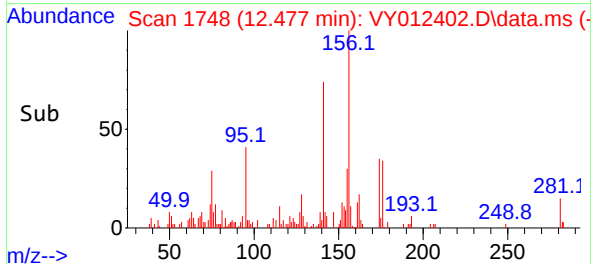
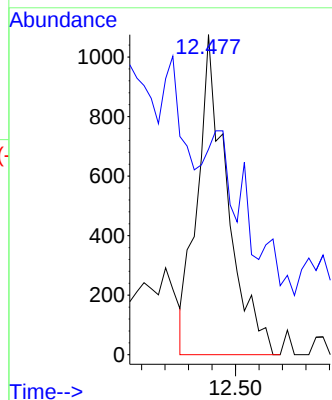
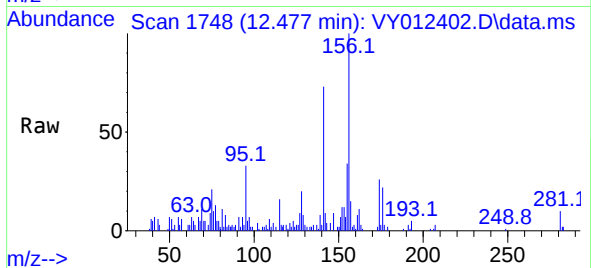




#76
1,2,3-Trichloropropane
Concen: 76.343 ug/l
RT: 12.477 min Scan# 11
Delta R.T. -0.153 min
Lab File: VY012402.D
Acq: 30 Jan 2023 16:58

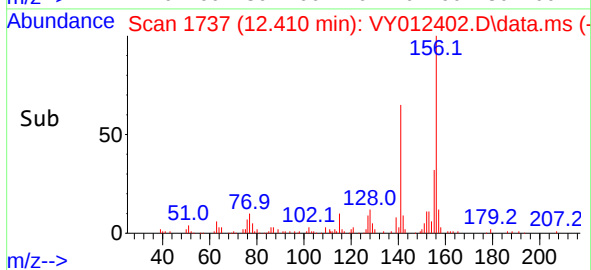
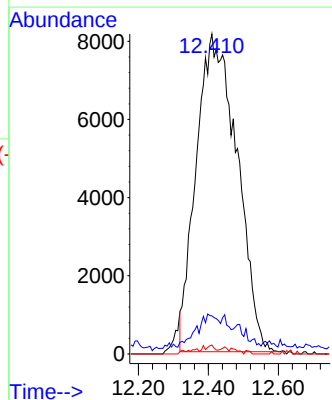
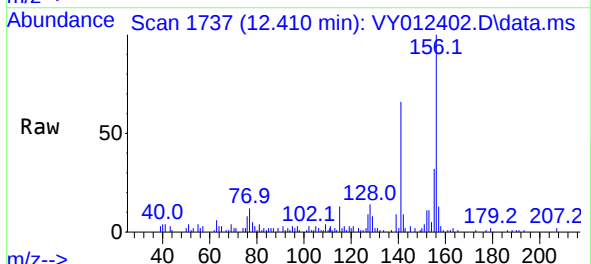
Instrument :
MSVOA_Y
ClientSampleId :
VOC

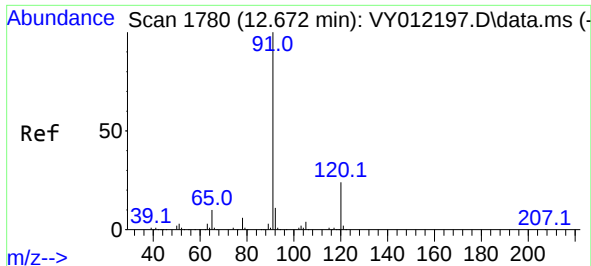
Tgt Ion: 75 Resp: 1894
Ion Ratio Lower Upper
75 100
77 36.4 0.0 0.0#



#77
Bromobenzene
Concen: 1403.867 ug/l
RT: 12.410 min Scan# 1737
Delta R.T. -0.195 min
Lab File: VY012402.D
Acq: 30 Jan 2023 16:58

Tgt Ion: 156 Resp: 65721
Ion Ratio Lower Upper
156 100
77 0.0 90.0 270.0#
158 0.3 48.4 145.2#

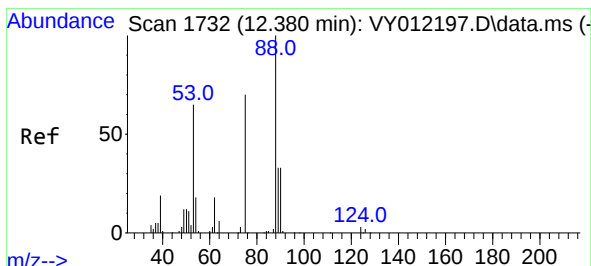
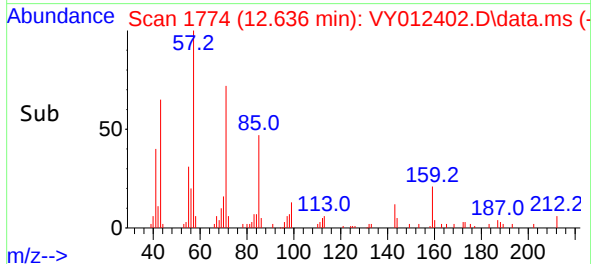
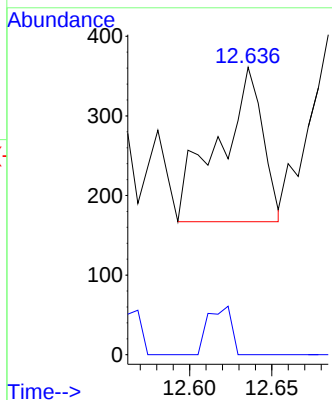
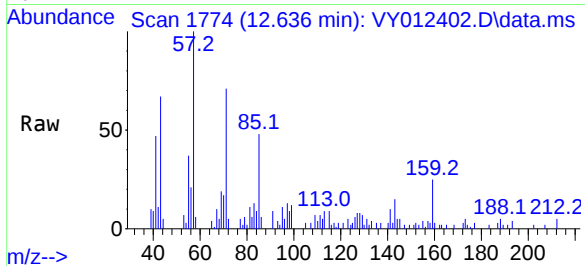




#78
n-propylbenzene
Concen: 1.590 ug/l
RT: 12.636 min Scan# 1774
Delta R.T. -0.036 min
Lab File: VY012402.D
Acq: 30 Jan 2023 16:58

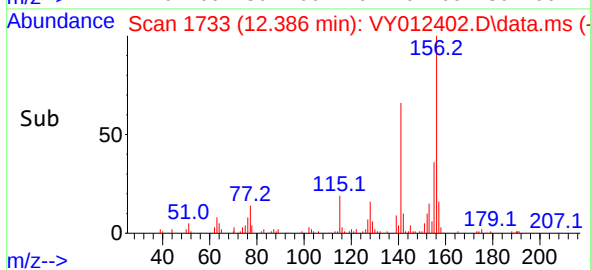
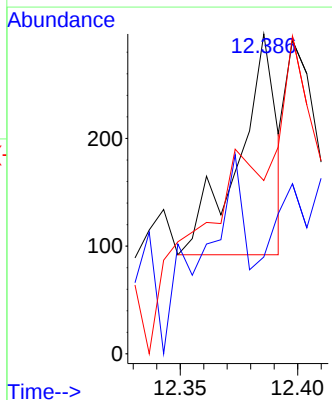
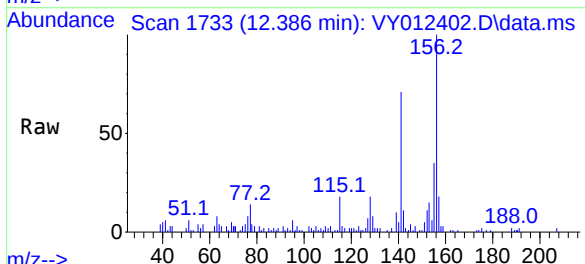
Instrument :
MSVOA_Y
ClientSampleId :
VOC

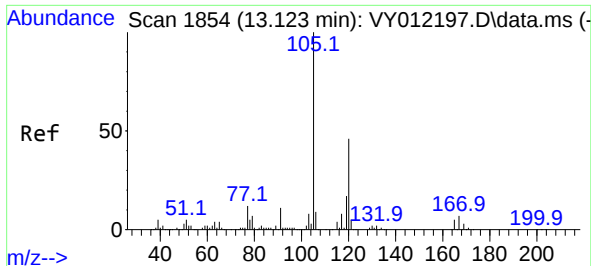
Tgt Ion: 91 Resp: 362
Ion Ratio Lower Upper
91 100
120 16.6 11.8 35.4



#81
trans-1,4-Dichloro-2-butene
Concen: 19.268 ug/l
RT: 12.386 min Scan# 1733
Delta R.T. 0.012 min
Lab File: VY012402.D
Acq: 30 Jan 2023 16:58

Tgt Ion: 75 Resp: 232
Ion Ratio Lower Upper
75 100
53 0.0 72.5 108.7#
89 310.8 37.0 55.4#

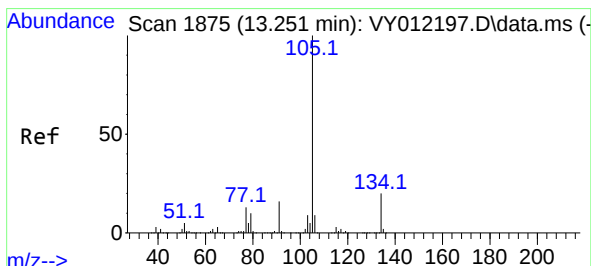
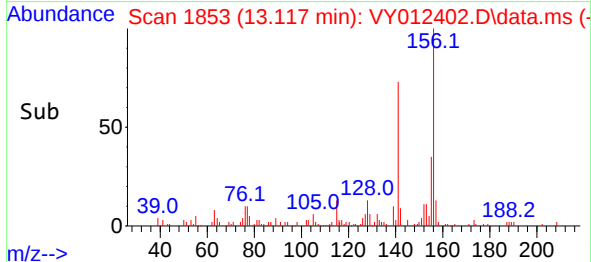
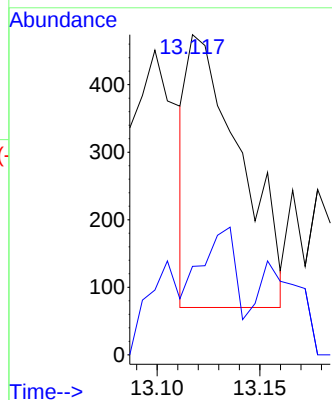
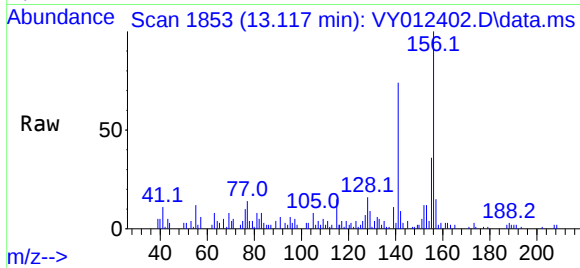




#84
1,2,4-Trimethylbenzene
Concen: 4.305 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VY012402.D
Acq: 30 Jan 2023 16:58

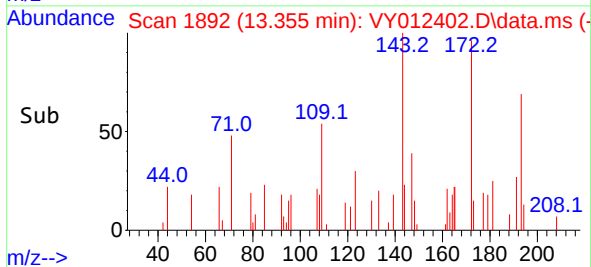
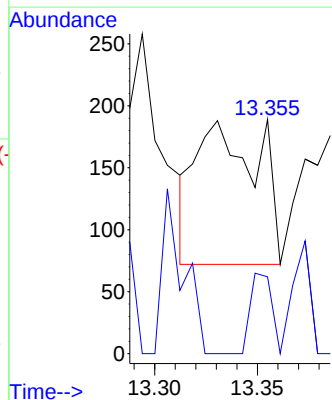
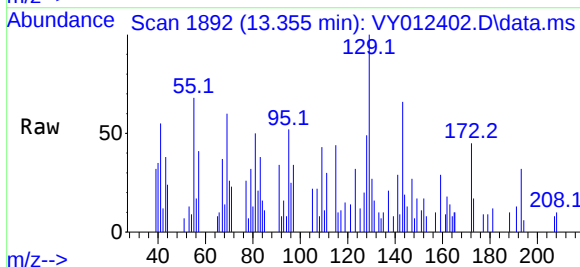
Instrument :
MSVOA_Y
ClientSampleId :
VOC

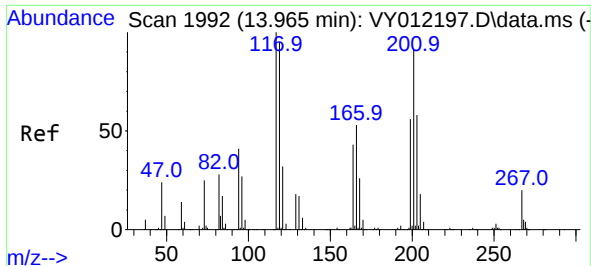
Tgt Ion:105 Resp: 718
Ion Ratio Lower Upper
105 100
120 38.6 22.9 68.7



#85
sec-Butylbenzene
Concen: 1.139 ug/l
RT: 13.355 min Scan# 1892
Delta R.T. 0.104 min
Lab File: VY012402.D
Acq: 30 Jan 2023 16:58

Tgt Ion:105 Resp: 239
Ion Ratio Lower Upper
105 100
134 19.2 10.1 30.3

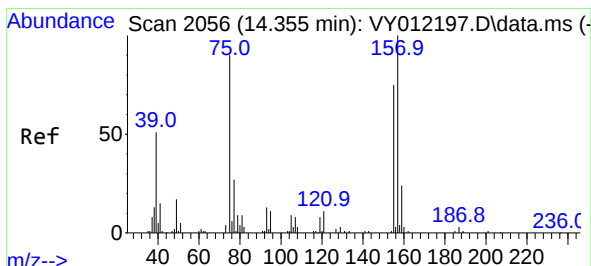
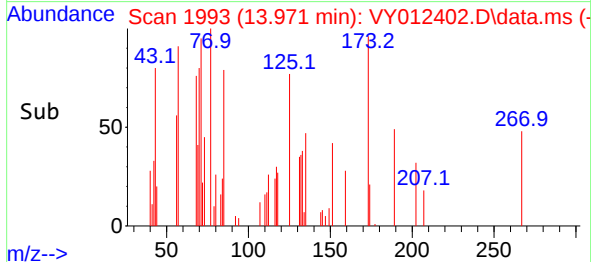
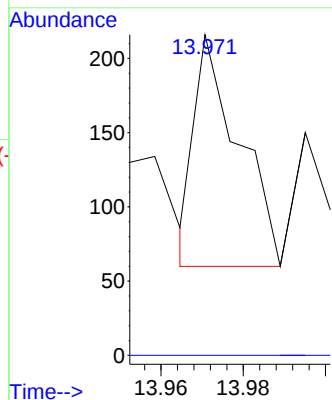
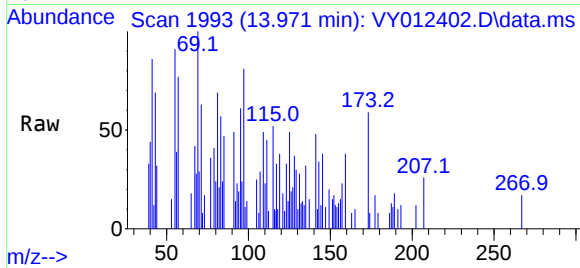




#90
Hexachloroethane
Concen: 3.504 ug/l
RT: 13.971 min Scan# 1992
Delta R.T. 0.012 min
Lab File: VY012402.D
Acq: 30 Jan 2023 16:58

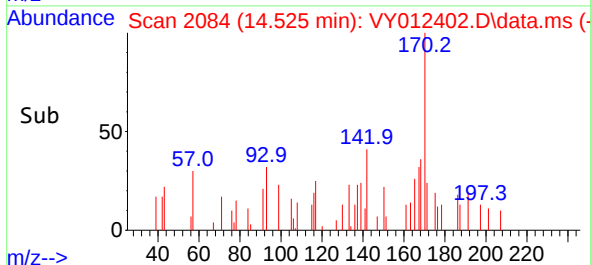
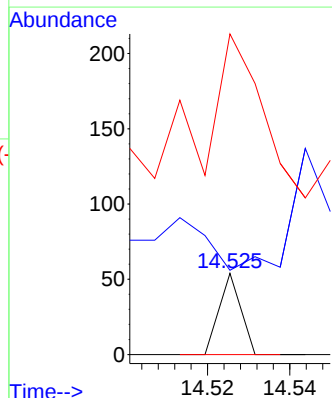
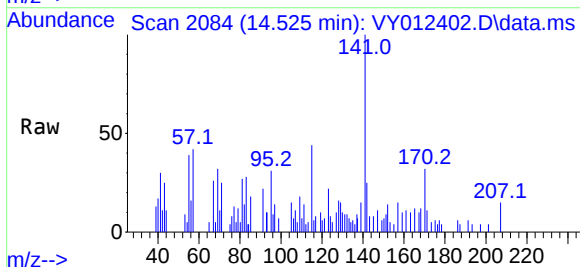
Instrument :
MSVOA_Y
ClientSampleId :
VOC

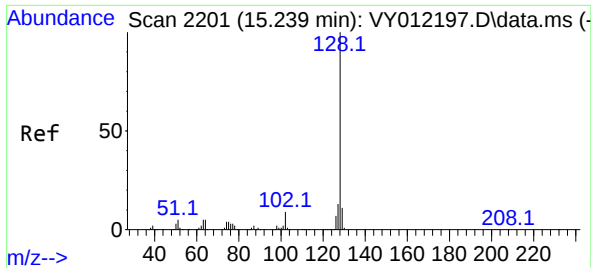
Tgt Ion:117 Resp: 116
Ion Ratio Lower Upper
117 100
201 0.0 40.3 120.8#



#92
1,2-Dibromo-3-Chloropropane
Concen: 3.158 ug/l
RT: 14.525 min Scan# 2084
Delta R.T. 0.170 min
Lab File: VY012402.D
Acq: 30 Jan 2023 16:58

Tgt Ion: 75 Resp: 20
Ion Ratio Lower Upper
75 100
155 690.0 42.3 126.8#
157 1790.0 54.4 163.3#





#95
Naphthalene
Concen: 3.112 ug/l
RT: 15.214 min Scan# 21
Delta R.T. -0.019 min
Lab File: VY012402.D
Acq: 30 Jan 2023 16:58

Instrument :
MSVOA_Y
ClientSampleId :
VOC

Tgt Ion:128 Resp: 327
Ion Ratio Lower Upper
128 100
127 83.8 10.2 15.2#
129 0.0 8.8 13.2#

