

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020521\
 Data File : VY003988.D
 Acq On : 05 Feb 2021 15:09
 Operator : SY/MD
 Sample : M1326-06
 Misc : 5.00g/10mL/MSVOA_Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 X2Z59

Quant Time: Feb 06 03:44:48 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\SFAMYL012621SMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Feb 06 03:42:14 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.697	114	217427	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.496	117	205484	25.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.428	152	105162	25.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.253	65	99077	22.59	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	90.36%
7) Chloroethane-d5	2.771	69	78515	23.45	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	93.80%
11) 1,1-Dichloroethene-d2	3.863	63	169213	24.14	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	96.56%
21) 2-Butanone-d5	6.899	46	56276	40.65	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	81.30%
24) Chloroform-d	7.490	84	148763	23.14	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	92.56%
26) 1,2-Dichloroethane-d4	8.149	65	98848	25.41	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	101.64%
32) Benzene-d6	8.118	84	308710	24.81	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	99.24%
36) 1,2-Dichloropropane-d6	9.130	67	91228	23.71	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	94.84%
41) Toluene-d8	10.185	98	289669	24.42	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	97.68%
43) trans-1,3-Dichloroprop...	10.441	79	47800	24.09	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	96.36%
47) 2-Hexanone-d5	10.788	63	41654	40.89	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	81.78%
56) 1,1,2,2-Tetrachloroeth...	12.562	84	70217	19.72	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	78.88%
66) 1,2-Dichlorobenzene-d4	13.727	152	100251	24.74	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	98.96%
Target Compounds						
					Qvalue	
3) Chloromethane	2.119	50	83916	17.62	ug/L	98
6) Bromomethane	2.662	94	21198	7.77	ug/L	94
9) Trichlorofluoromethane	3.137	101	86954	15.49	ug/L	98
12) 1,1-Dichloroethene	3.887	96	61489	20.01	ug/L #	60
13) Acetone	3.960	43	78966	74.91	ug/L	96
15) Methyl Acetate	4.491	43	73997	30.03	ug/L	96
16) Methylene chloride	4.728	84	42789	11.20	ug/L	94
17) trans-1,2-Dichloroethene	5.234	96	32122	9.92	ug/L	85
18) Methyl tert-butyl Ether	5.234	73	260303	28.49	ug/L #	95
20) cis-1,2-Dichloroethene	6.996	96	84626	24.90	ug/L	90
23) Bromochloromethane	7.350	128	21470	13.17	ug/L	95
27) 1,2-Dichloroethane	8.246	62	44840	9.87	ug/L	97
29) Cyclohexane	7.795	56	54088	9.32	ug/L	96
30) 1,1,1-Trichloroethane	7.710	97	53706	9.78	ug/L	97
31) Carbon tetrachloride	7.905	117	60904	12.40	ug/L	96
34) Trichloroethene	8.941	95	128234	36.58	ug/L	93
35) Methylcyclohexane	9.185	83	142615	24.46	ug/L	94
37) 1,2-Dichloropropane	9.222	63	40301	11.45	ug/L	99
38) Bromodichloromethane	9.502	83	87470	18.86	ug/L	98

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

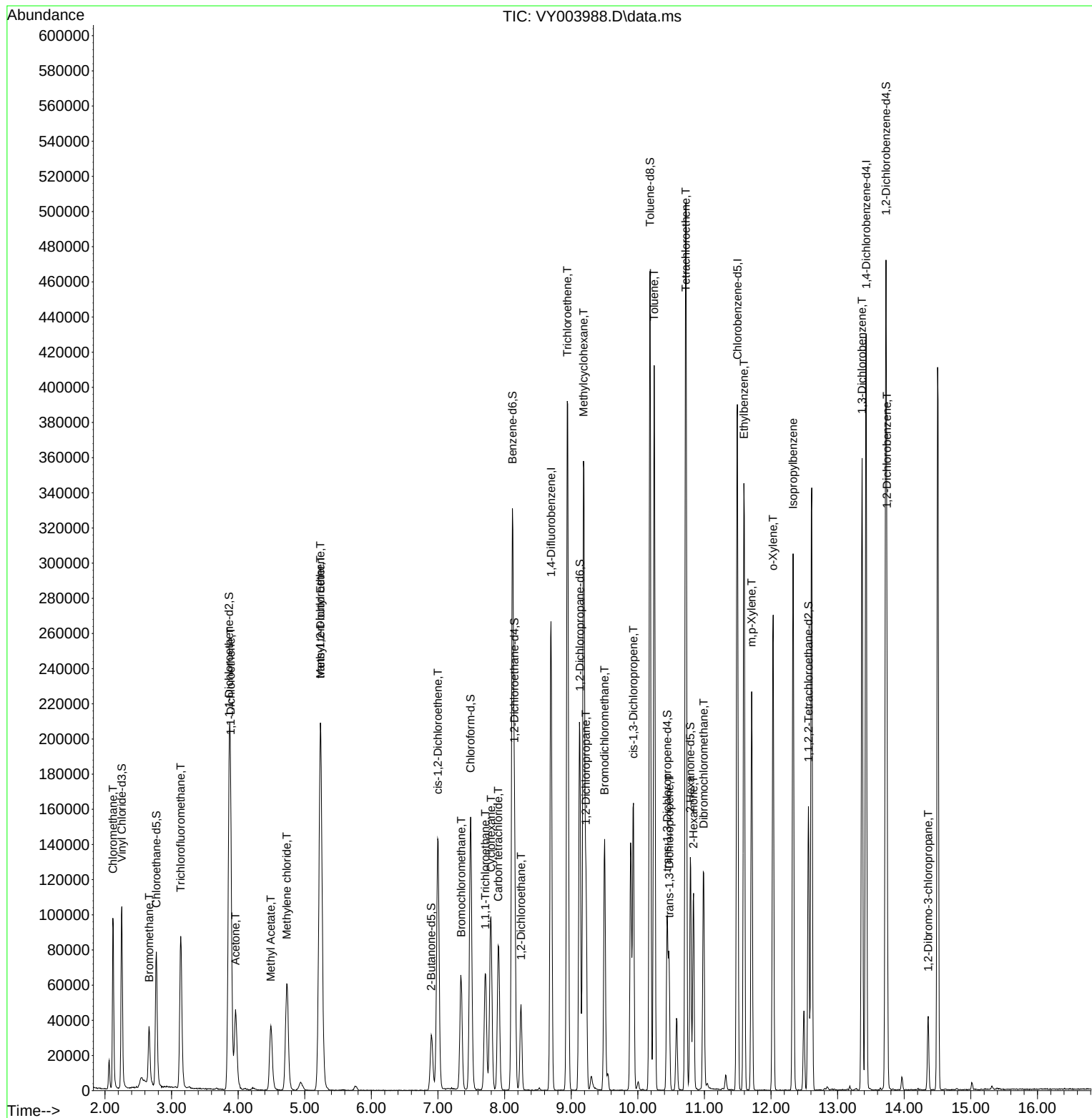
39) cis-1,3-Dichloropropene	9.935	75	86977	15.75	ug/L	95
42) Toluene	10.246	91	280524	19.53	ug/L	100
44) trans-1,3-Dichloropropene	10.471	75	38005	7.39	ug/L	99
46) Tetrachloroethene	10.721	164	108469	37.45	ug/L	98
48) 2-Hexanone	10.837	43	70480	28.63	ug/L	96
49) Dibromochloromethane	10.989	129	59447	17.94	ug/L	99
52) Ethylbenzene	11.593	91	232888	14.51	ug/L	97
53) m,p-Xylene	11.709	106	57682	9.61	ug/L	89
54) o-Xylene	12.032	106	68513	11.93	ug/L	97
60) Isopropylbenzene	12.331	105	182368	12.14	ug/L	98
64) 1,3-Dichlorobenzene	13.367	146	134535	19.37	ug/L	98
67) 1,2-Dichlorobenzene	13.739	146	61511	9.53	ug/L	96
68) 1,2-Dibromo-3-chloropr...	14.361	75	9830	15.17	ug/L #	82

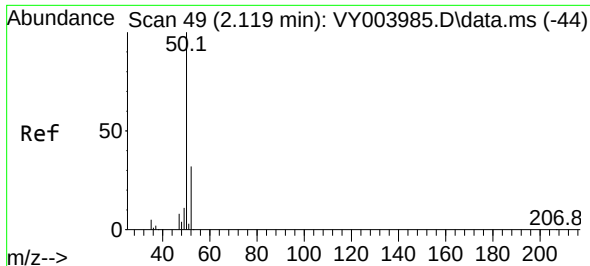
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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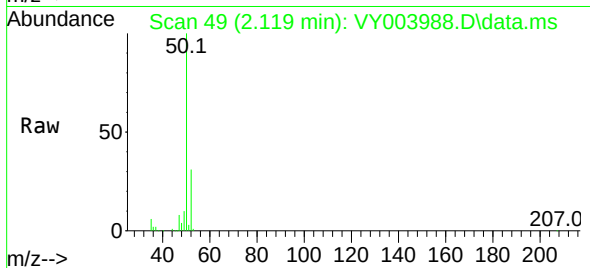
Quant Time: Feb 06 03:44:48 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\SFAMYL012621SMA.M
Quant Title : VOC Analysis
QLast Update : Sat Feb 06 03:42:14 2021
Response via : Initial Calibration



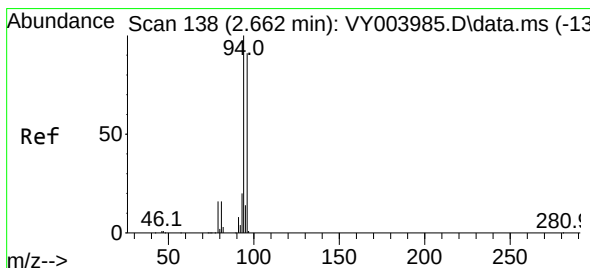
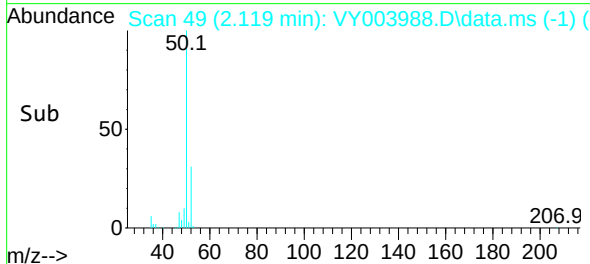
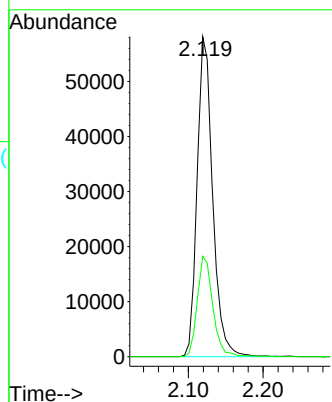


#3
Chloromethane
Concen: 17.62 ug/L
RT: 2.119 min Scan# 49
Delta R.T. -0.000 min
Lab File: VY003988.D
Acq: 05 Feb 2021 15:09

Instrument :
MSVOA_Y
ClientSampled :
X2Z59

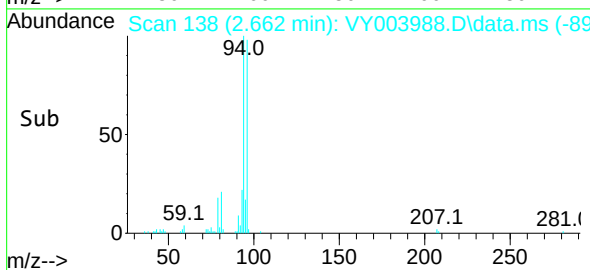
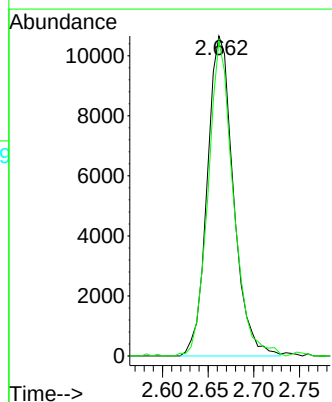
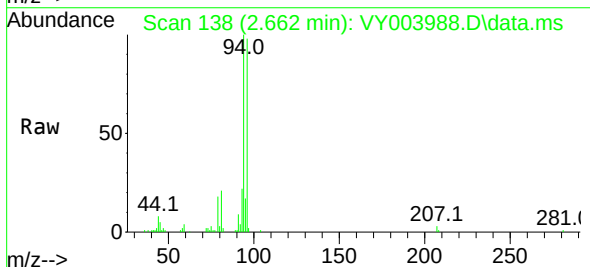


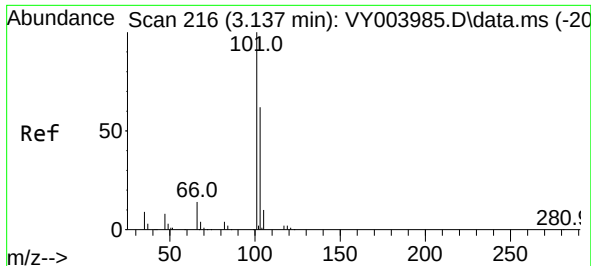
Tgt Ion: 50 Resp: 83916
Ion Ratio Lower Upper
50 100
52 31.3 22.7 42.3



#6
Bromomethane
Concen: 7.77 ug/L
RT: 2.662 min Scan# 138
Delta R.T. -0.000 min
Lab File: VY003988.D
Acq: 05 Feb 2021 15:09

Tgt Ion: 94 Resp: 21198
Ion Ratio Lower Upper
94 100
96 98.4 65.2 121.0

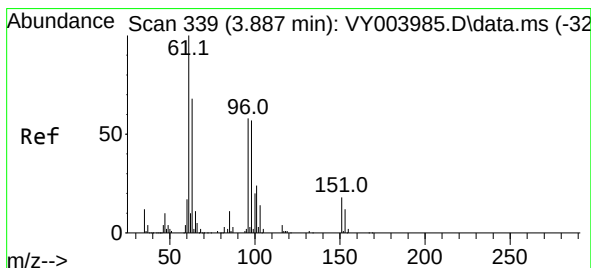
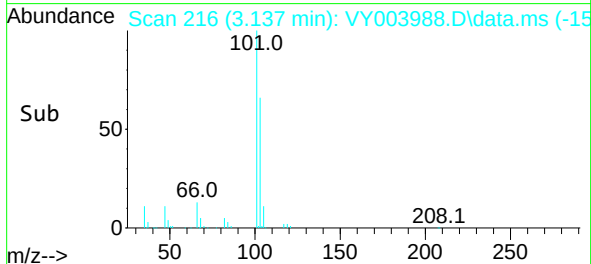
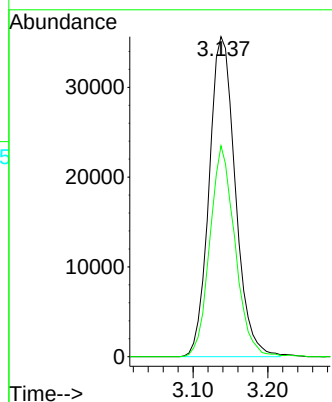
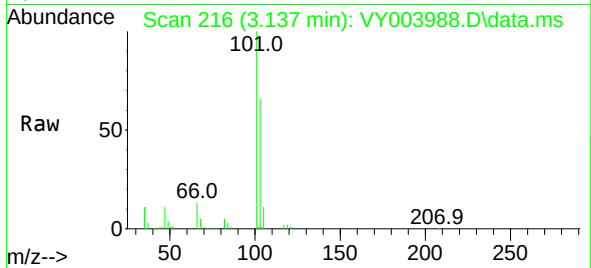




#9
Trichlorofluoromethane
Concen: 15.49 ug/L
RT: 3.137 min Scan# 216
Delta R.T. -0.000 min
Lab File: VY003988.D
Acq: 05 Feb 2021 15:09

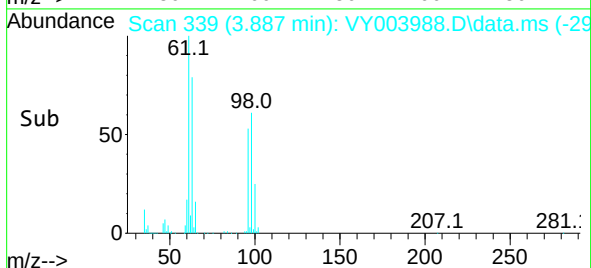
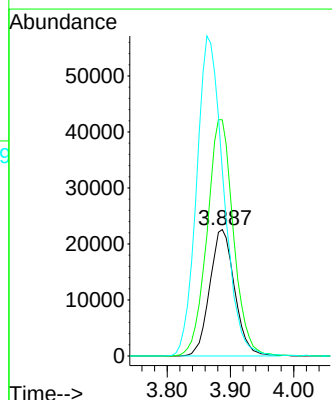
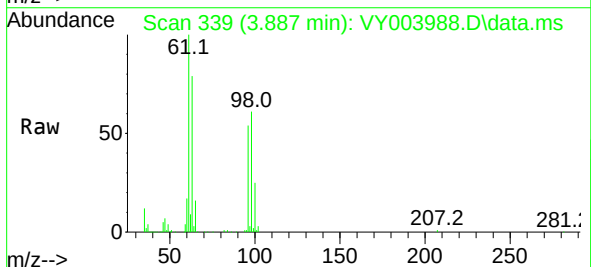
Instrument :
MSVOA_Y
ClientSampled :
X2Z59

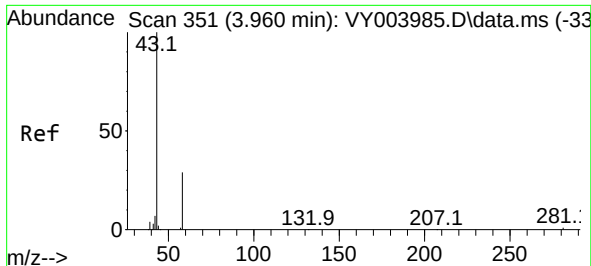
Tgt Ion:101 Resp: 86954
Ion Ratio Lower Upper
101 100
103 63.2 51.9 77.9



#12
1,1-Dichloroethene
Concen: 20.01 ug/L
RT: 3.887 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY003988.D
Acq: 05 Feb 2021 15:09

Tgt Ion: 96 Resp: 61489
Ion Ratio Lower Upper
96 100
61 186.9 106.1 197.1
63 147.4 62.9 116.9#

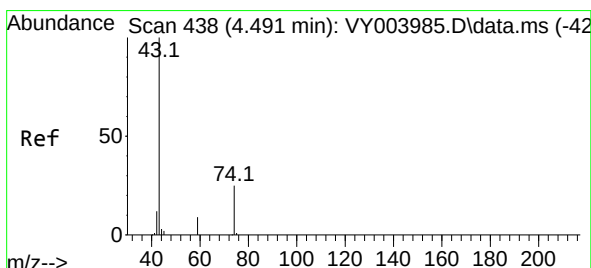
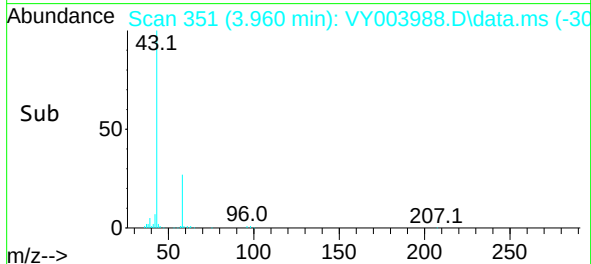
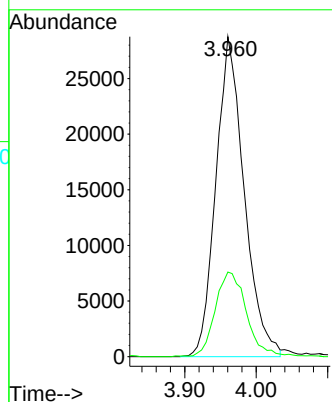
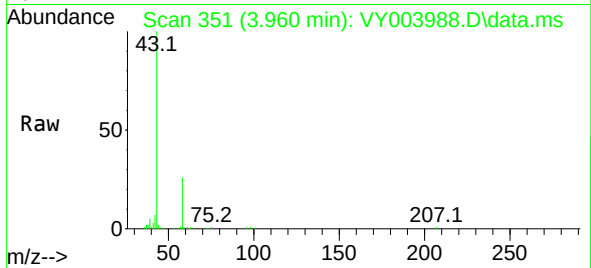




#13
Acetone
Concen: 74.91 ug/L
RT: 3.960 min Scan# 351
Delta R.T. -0.000 min
Lab File: VY003988.D
Acq: 05 Feb 2021 15:09

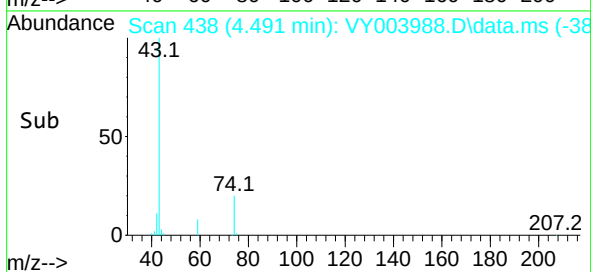
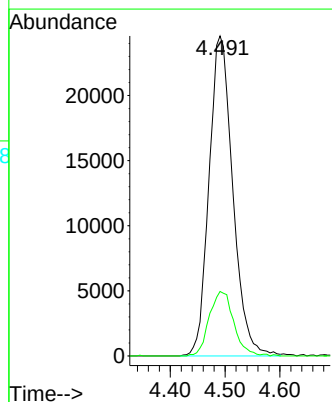
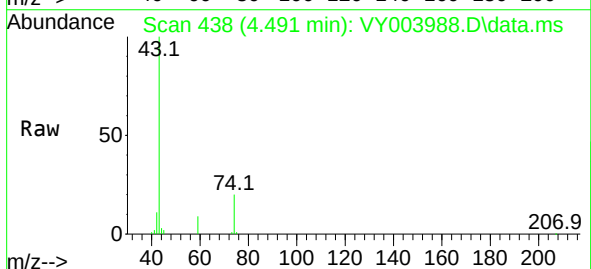
Instrument :
MSVOA_Y
ClientSampled :
X2Z59

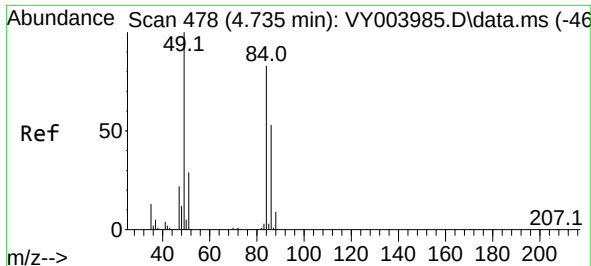
Tgt Ion: 43 Resp: 78966
Ion Ratio Lower Upper
43 100
58 28.4 0.0 61.6



#15
Methyl Acetate
Concen: 30.03 ug/L
RT: 4.491 min Scan# 438
Delta R.T. -0.000 min
Lab File: VY003988.D
Acq: 05 Feb 2021 15:09

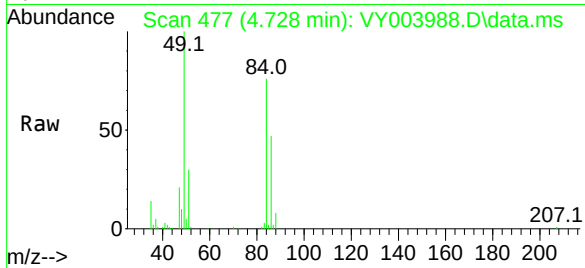
Tgt Ion: 43 Resp: 73997
Ion Ratio Lower Upper
43 100
74 20.7 18.2 27.2



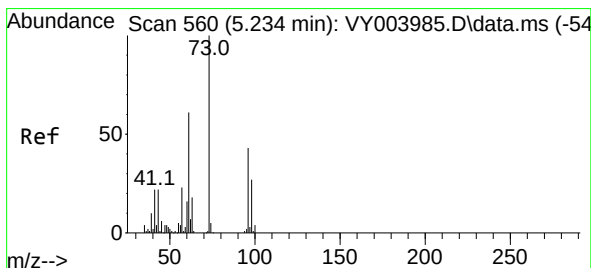
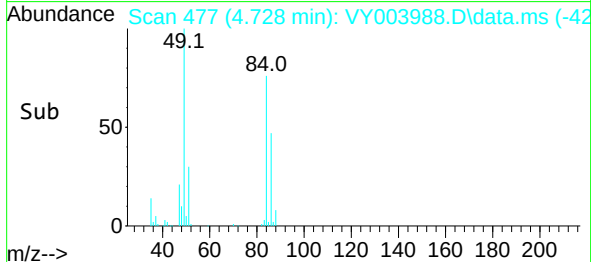
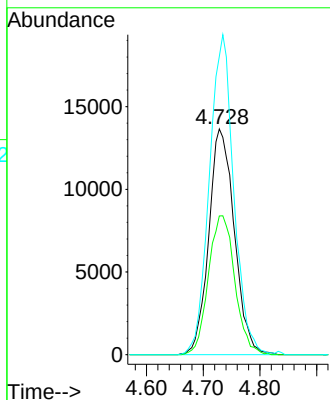


#16
Methylene chloride
Concen: 11.20 ug/L
RT: 4.728 min Scan# 477
Delta R.T. -0.006 min
Lab File: VY003988.D
Acq: 05 Feb 2021 15:09

Instrument :
MSVOA_Y
ClientSampled :
X2Z59

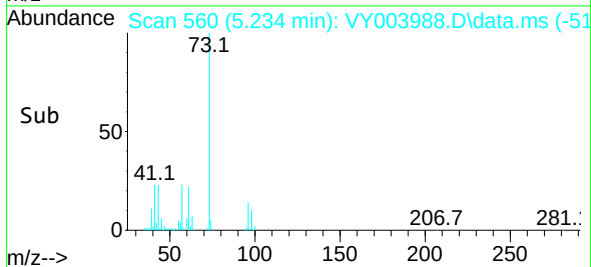
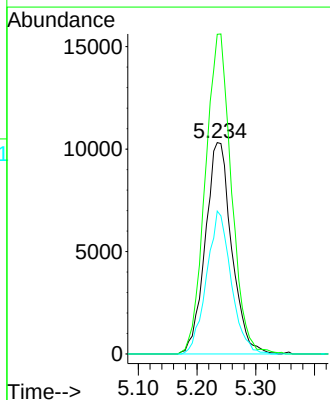
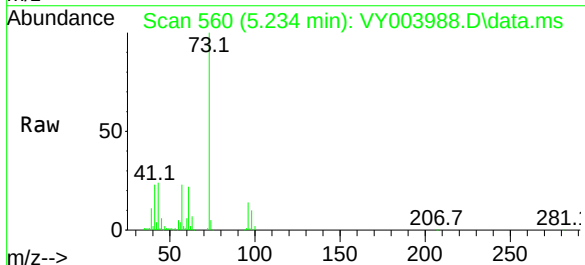


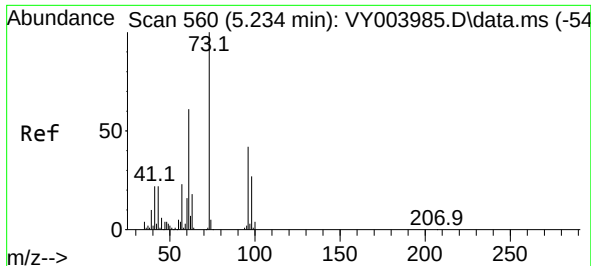
Tgt Ion: 84 Resp: 42789
Ion Ratio Lower Upper
84 100
86 61.5 43.3 80.3
49 132.1 85.3 158.5



#17
trans-1,2-Dichloroethene
Concen: 9.92 ug/L
RT: 5.234 min Scan# 560
Delta R.T. -0.000 min
Lab File: VY003988.D
Acq: 05 Feb 2021 15:09

Tgt Ion: 96 Resp: 32122
Ion Ratio Lower Upper
96 100
61 151.2 89.5 166.1
98 67.6 45.5 84.5

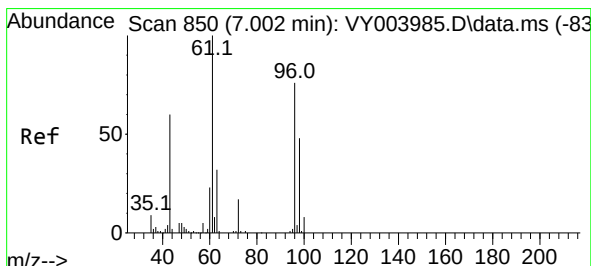
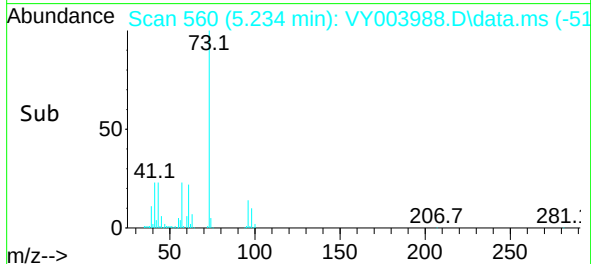
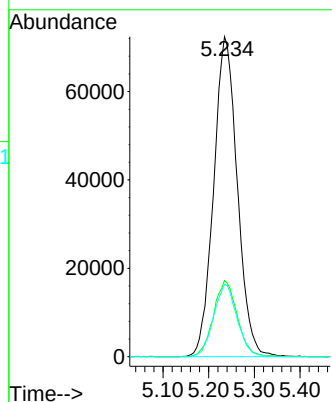
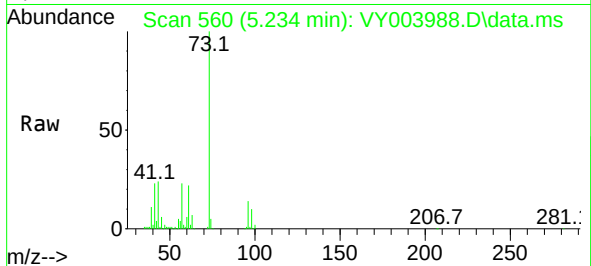




#18
Methyl tert-butyl Ether
Concen: 28.49 ug/L
RT: 5.234 min Scan# 560
Delta R.T. -0.000 min
Lab File: VY003988.D
Acq: 05 Feb 2021 15:09

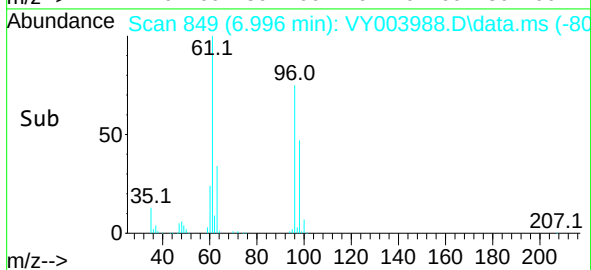
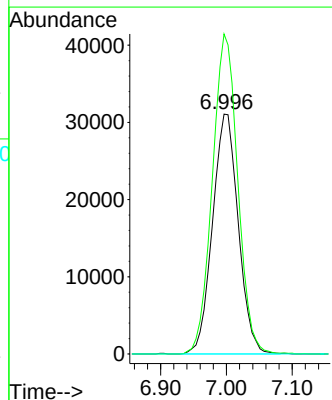
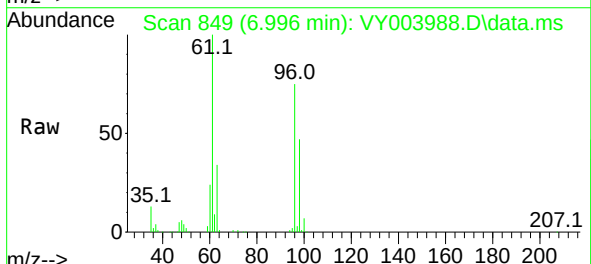
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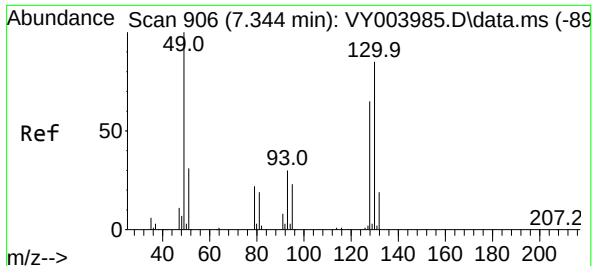
Tgt Ion: 73 Resp: 260303
Ion Ratio Lower Upper
73 100
43 23.8 15.2 22.8#
57 22.4 18.1 27.1



#20
cis-1,2-Dichloroethene
Concen: 24.90 ug/L
RT: 6.996 min Scan# 849
Delta R.T. -0.006 min
Lab File: VY003988.D
Acq: 05 Feb 2021 15:09

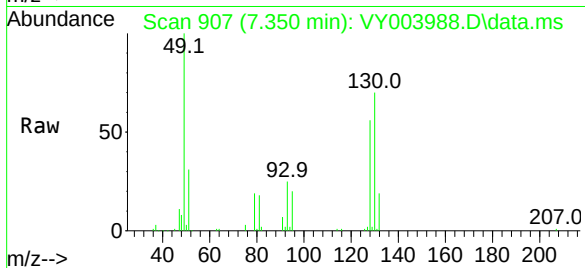
Tgt Ion: 96 Resp: 84626
Ion Ratio Lower Upper
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61 133.4 85.8 159.4
68 0.0 0.0 0.0



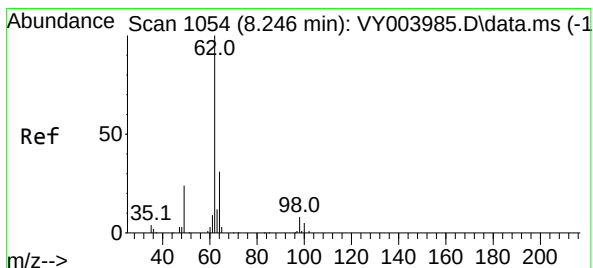
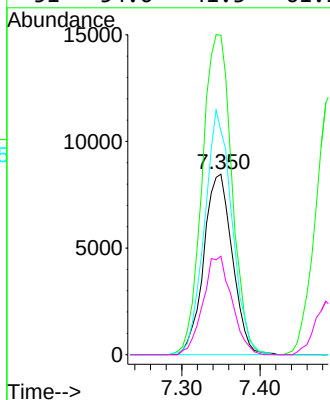
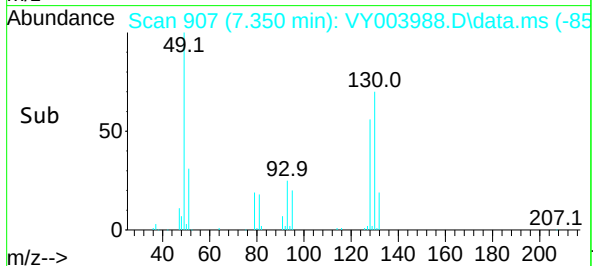


#23
Bromochloromethane
Concen: 13.17 ug/L
RT: 7.350 min Scan# 907
Delta R.T. 0.006 min
Lab File: VY003988.D
Acq: 05 Feb 2021 15:09

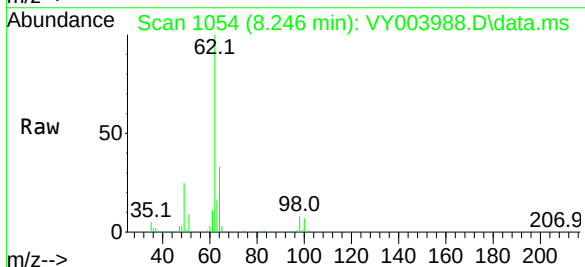
Instrument :
MSVOA_Y
ClientSampled :
X2Z59



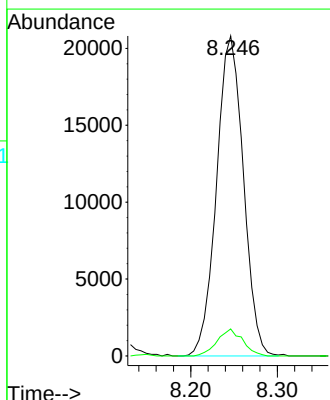
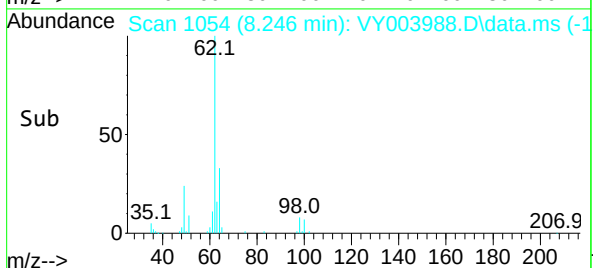
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Ion Ratio Lower Upper
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130 123.9 90.5 168.1
51 54.6 41.3 61.9

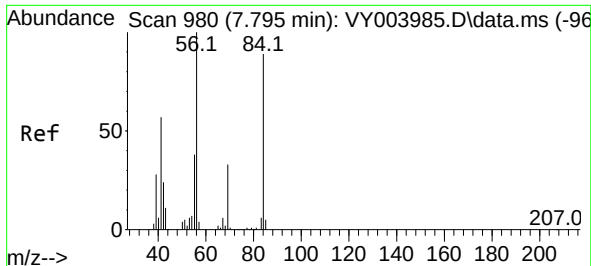


#27
1,2-Dichloroethane
Concen: 9.87 ug/L
RT: 8.246 min Scan# 1054
Delta R.T. -0.000 min
Lab File: VY003988.D
Acq: 05 Feb 2021 15:09



Tgt Ion: 62 Resp: 44840
Ion Ratio Lower Upper
62 100
98 8.4 7.5 11.3





#29

Cyclohexane

Concen: 9.32 ug/L

RT: 7.795 min Scan# 980

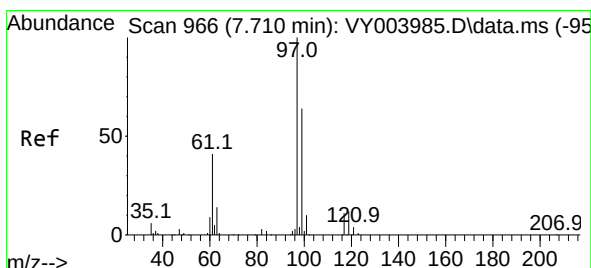
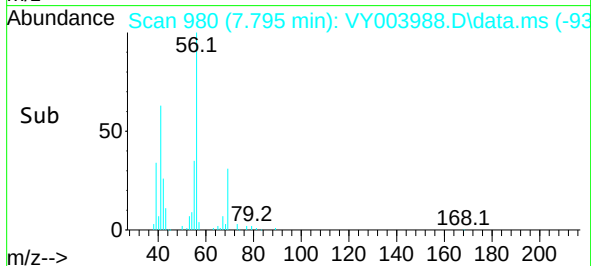
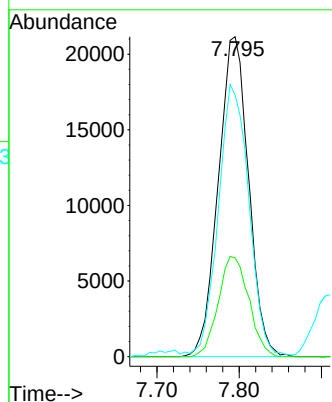
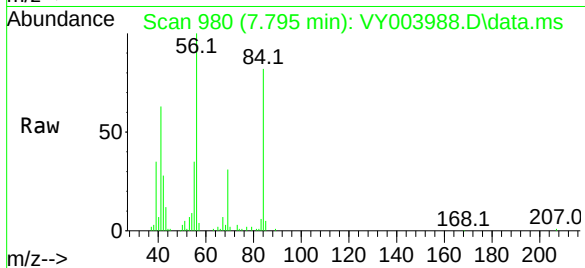
Delta R.T. -0.000 min

Lab File: VY003988.D

Acq: 05 Feb 2021 15:09

Instrument :
MSVOA_Y
ClientSampled :
X2Z59

Tgt Ion:	56	Resp:	54088
Ion	Ratio	Lower	Upper
56	100		
69	31.6	23.9	35.9
84	86.3	71.9	107.9



#30

1,1,1-Trichloroethane

Concen: 9.78 ug/L

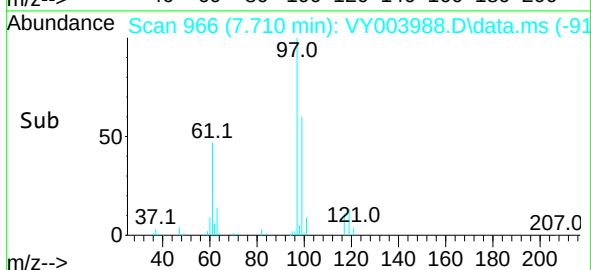
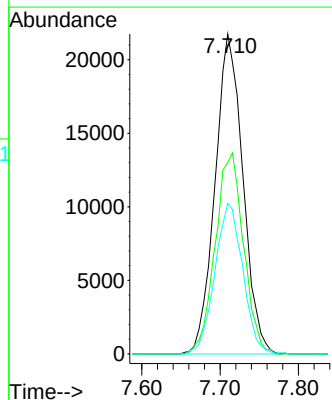
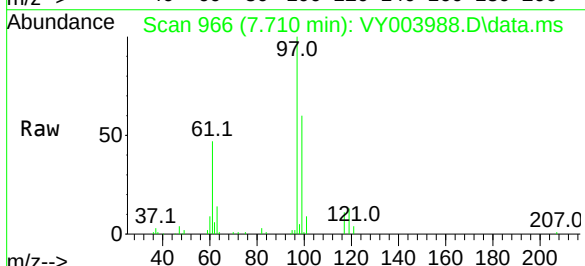
RT: 7.710 min Scan# 966

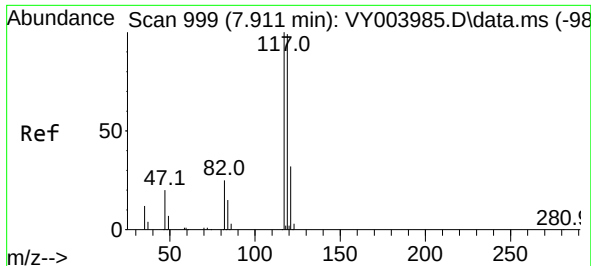
Delta R.T. -0.000 min

Lab File: VY003988.D

Acq: 05 Feb 2021 15:09

Tgt Ion:	97	Resp:	53706
Ion	Ratio	Lower	Upper
97	100		
99	63.9	50.6	76.0
61	47.1	34.3	51.5

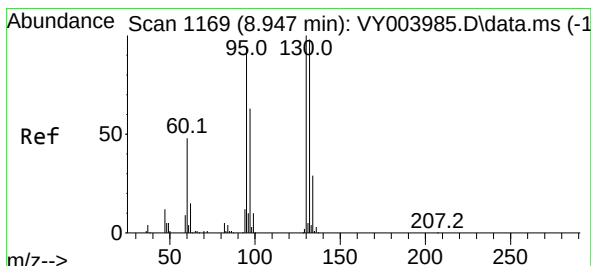
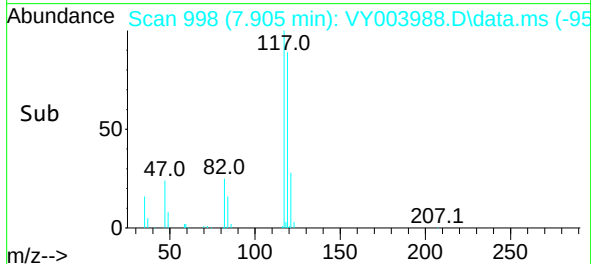
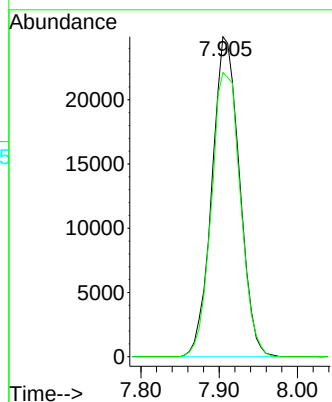
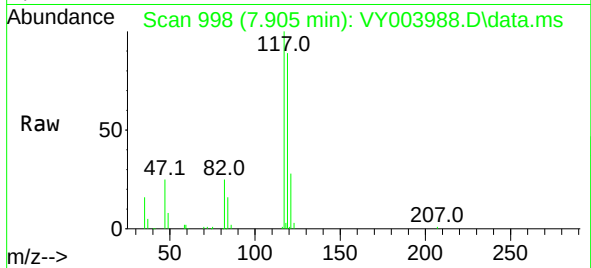




#31
Carbon tetrachloride
Concen: 12.40 ug/L
RT: 7.905 min Scan# 998
Delta R.T. -0.006 min
Lab File: VY003988.D
Acq: 05 Feb 2021 15:09

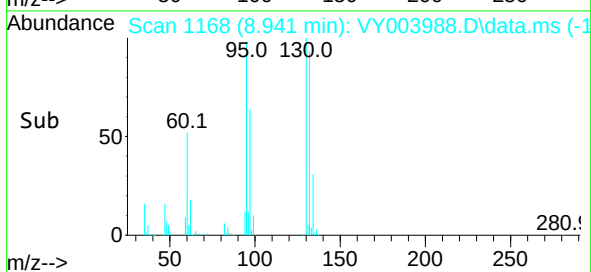
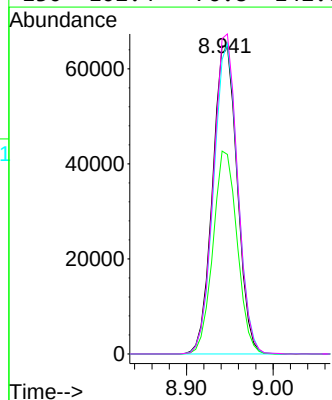
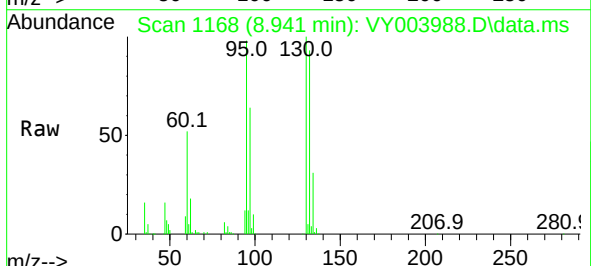
Instrument :
MSVOA_Y
ClientSampleId :
X2Z59

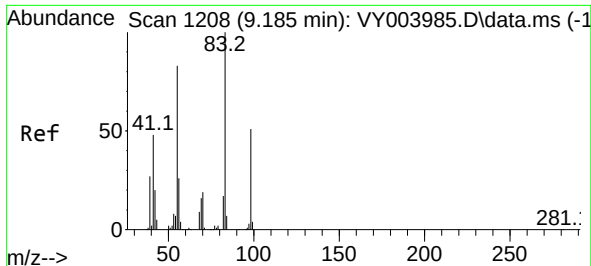
Tgt Ion:117 Resp: 60904
Ion Ratio Lower Upper
117 100
119 93.6 77.7 116.5



#34
Trichloroethene
Concen: 36.58 ug/L
RT: 8.941 min Scan# 1168
Delta R.T. -0.006 min
Lab File: VY003988.D
Acq: 05 Feb 2021 15:09

Tgt Ion: 95 Resp: 128234
Ion Ratio Lower Upper
95 100
97 65.9 44.7 83.1
132 95.5 74.7 138.7
130 102.4 76.8 142.6

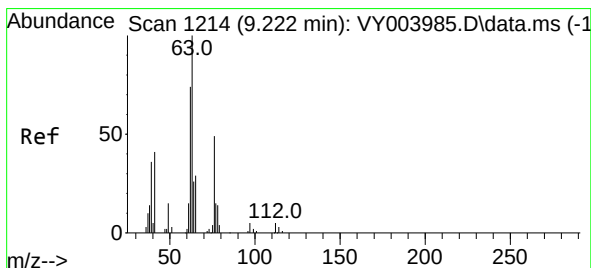
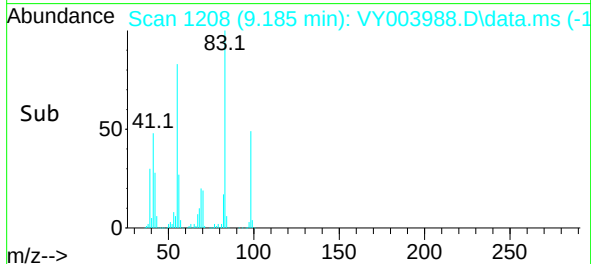
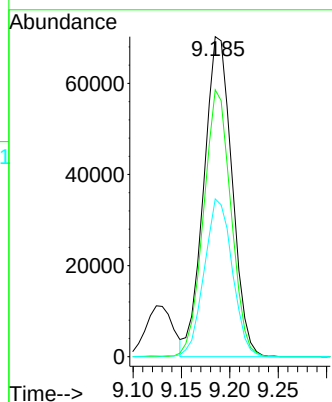
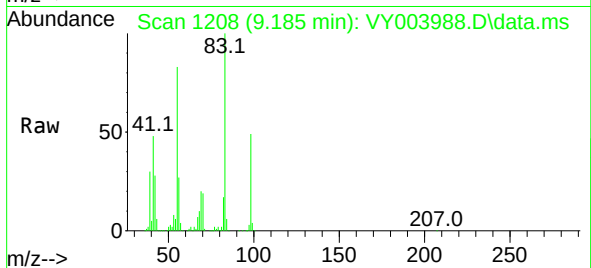




#35
Methylcyclohexane
Concen: 24.46 ug/L
RT: 9.185 min Scan# 1208
Delta R.T. -0.000 min
Lab File: VY003988.D
Acq: 05 Feb 2021 15:09

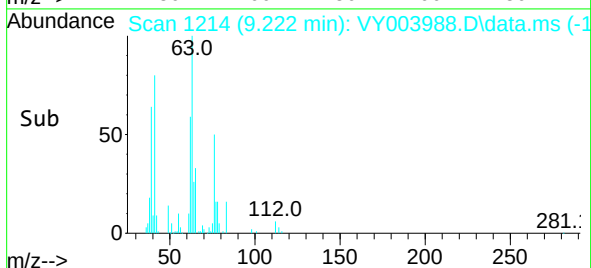
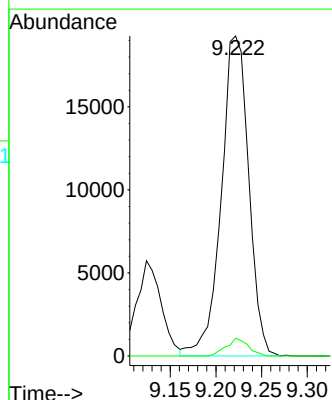
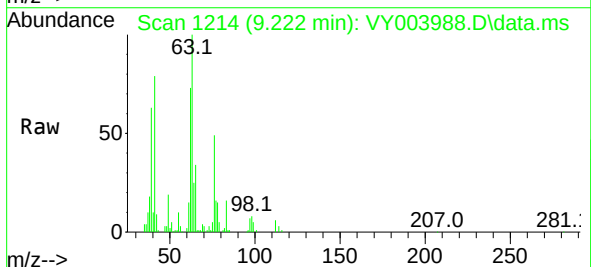
Instrument :
MSVOA_Y
ClientSampleId :
X2Z59

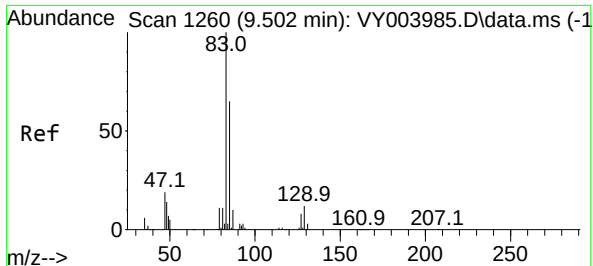
Tgt Ion: 83 Resp: 142615
Ion Ratio Lower Upper
83 100
55 80.9 58.3 87.5
98 49.0 39.0 58.6



#37
1,2-Dichloropropane
Concen: 11.45 ug/L
RT: 9.222 min Scan# 1214
Delta R.T. -0.000 min
Lab File: VY003988.D
Acq: 05 Feb 2021 15:09

Tgt Ion: 63 Resp: 40301
Ion Ratio Lower Upper
63 100
112 4.4 3.7 5.5

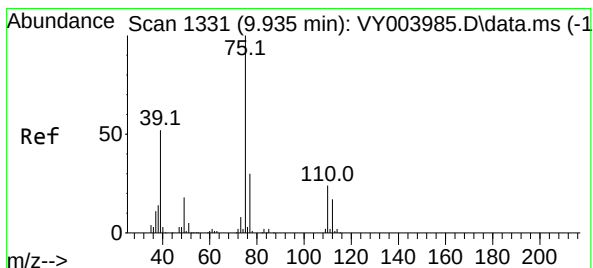
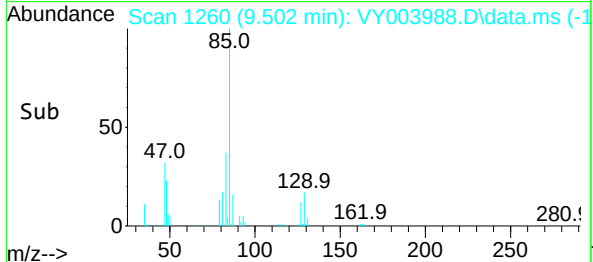
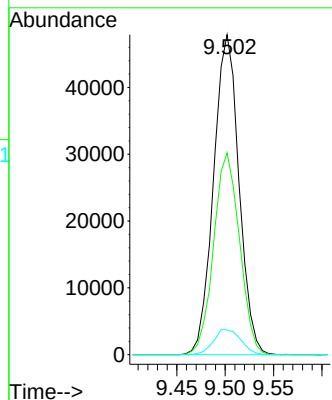
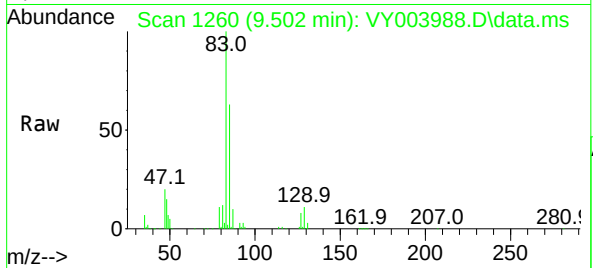




#38
Bromodichloromethane
Concen: 18.86 ug/L
RT: 9.502 min Scan# 1260
Delta R.T. -0.000 min
Lab File: VY003988.D
Acq: 05 Feb 2021 15:09

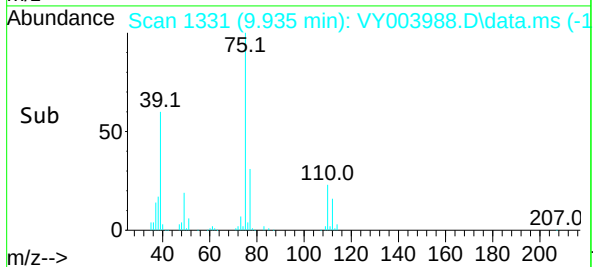
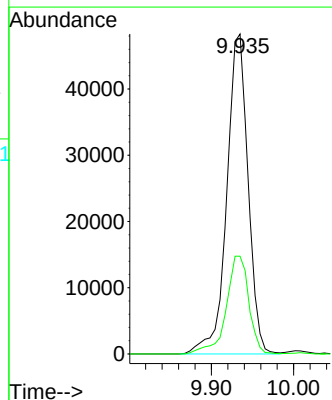
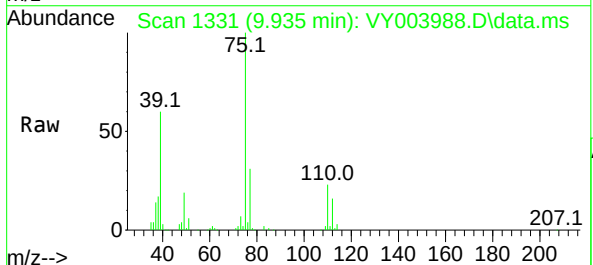
Instrument :
MSVOA_Y
ClientSampled :
X2Z59

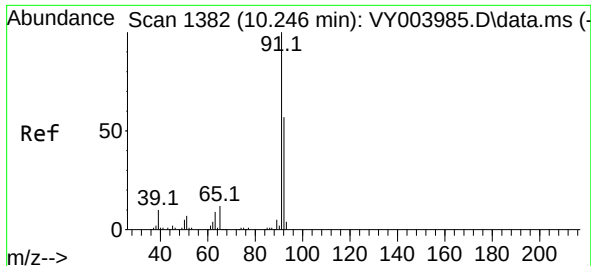
Tgt Ion: 83 Resp: 87470
Ion Ratio Lower Upper
83 100
85 63.1 43.1 80.1
127 7.8 7.1 10.7



#39
cis-1,3-Dichloropropene
Concen: 15.75 ug/L
RT: 9.935 min Scan# 1331
Delta R.T. -0.000 min
Lab File: VY003988.D
Acq: 05 Feb 2021 15:09

Tgt Ion: 75 Resp: 86977
Ion Ratio Lower Upper
75 100
77 30.6 23.5 43.7

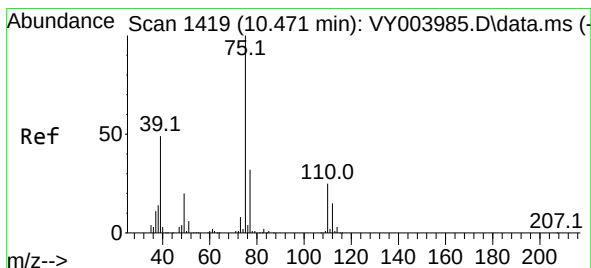
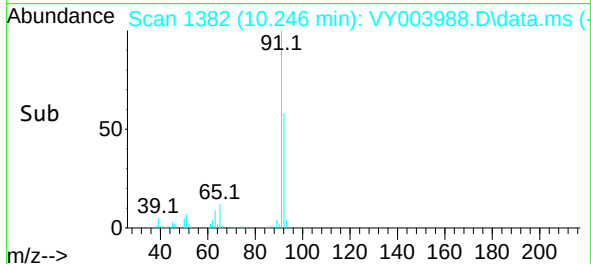
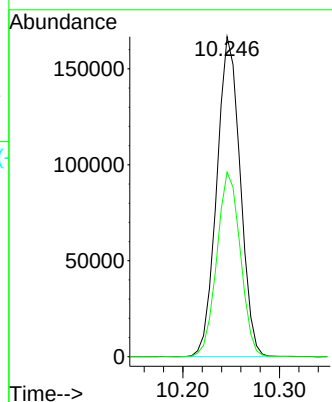
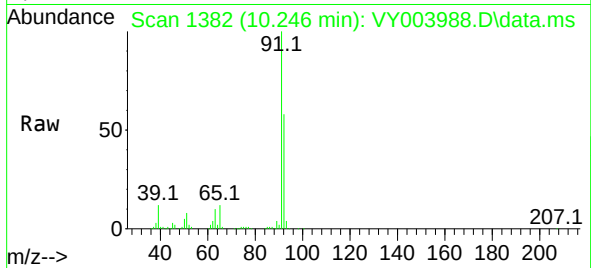




#42
Toluene
Concen: 19.53 ug/L
RT: 10.246 min Scan# 1382
Delta R.T. -0.000 min
Lab File: VY003988.D
Acq: 05 Feb 2021 15:09

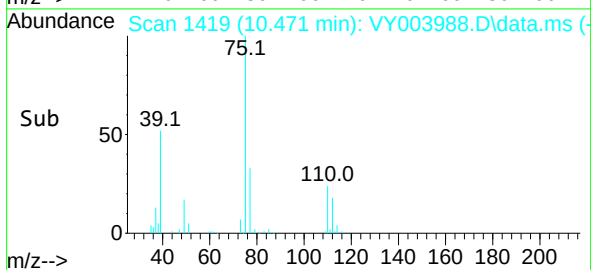
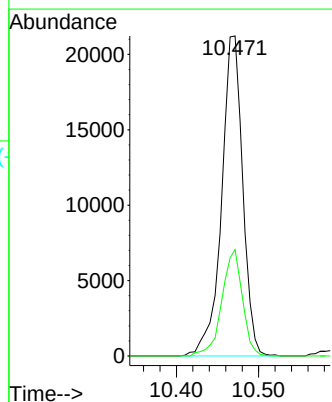
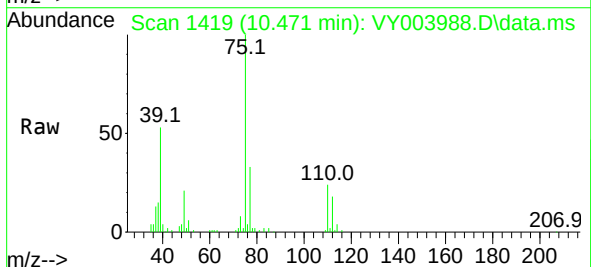
Instrument :
MSVOA_Y
ClientSampled :
X2Z59

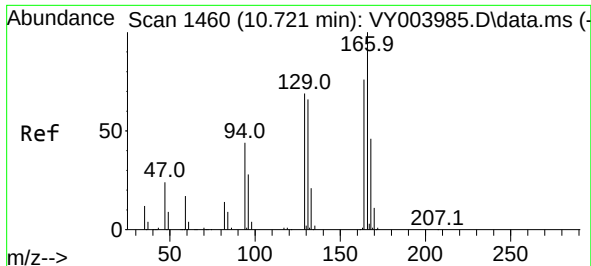
Tgt Ion: 91 Resp: 280524
Ion Ratio Lower Upper
91 100
92 57.6 40.1 74.5



#44
trans-1,3-Dichloropropene
Concen: 7.39 ug/L
RT: 10.471 min Scan# 1419
Delta R.T. -0.000 min
Lab File: VY003988.D
Acq: 05 Feb 2021 15:09

Tgt Ion: 75 Resp: 38005
Ion Ratio Lower Upper
75 100
77 33.3 22.9 42.5



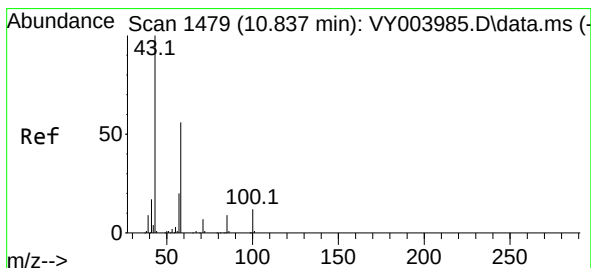
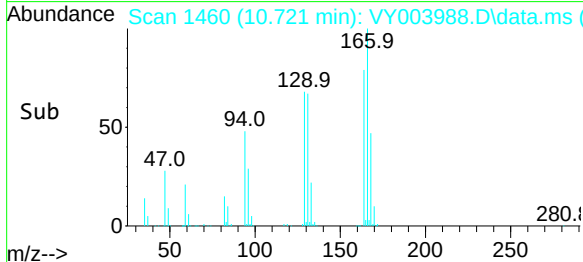
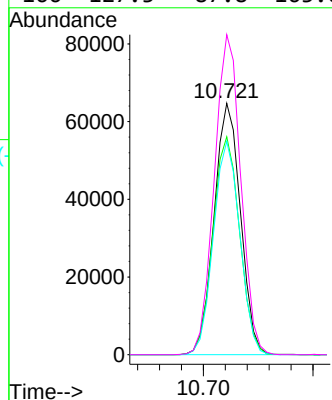
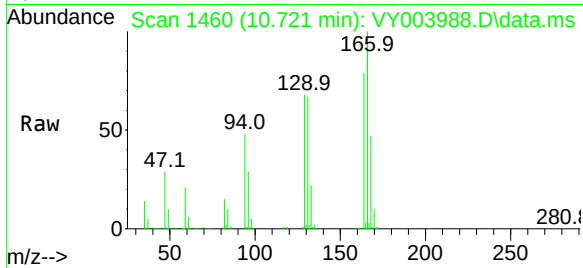


#46
Tetrachloroethene
Concen: 37.45 ug/L
RT: 10.721 min Scan# 1460
Delta R.T. -0.000 min
Lab File: VY003988.D
Acq: 05 Feb 2021 15:09

Instrument :
MSVOA_Y
ClientSampled :
X2Z59

Tgt Ion:164 Resp: 108469

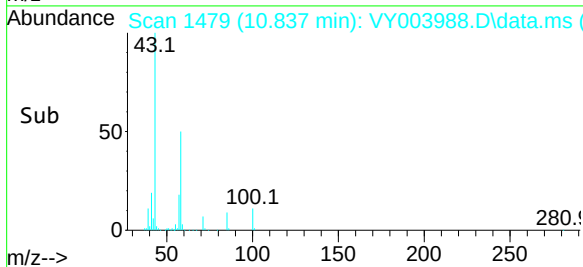
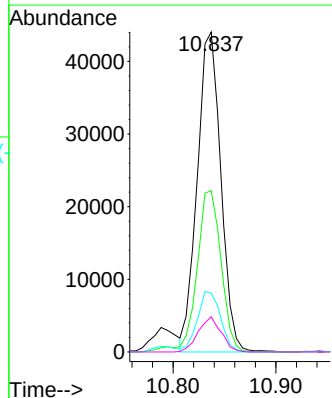
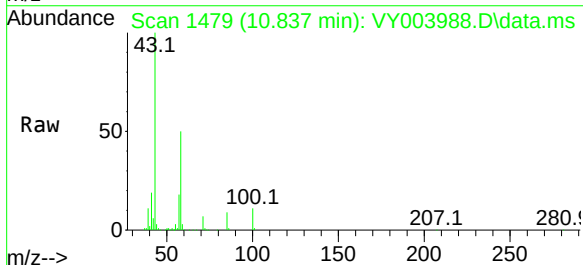
Ion	Ratio	Lower	Upper
164	100		
129	86.7	58.9	109.5
131	84.8	59.0	109.6
166	127.3	87.8	163.0

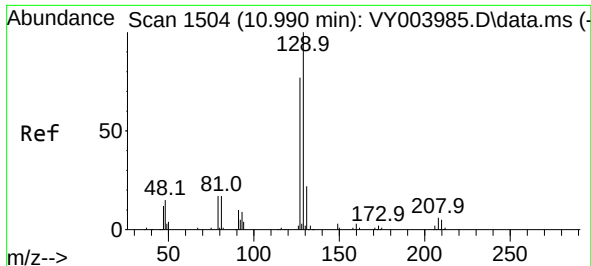


#48
2-Hexanone
Concen: 28.63 ug/L
RT: 10.837 min Scan# 1479
Delta R.T. -0.000 min
Lab File: VY003988.D
Acq: 05 Feb 2021 15:09

Tgt Ion: 43 Resp: 70480

Ion	Ratio	Lower	Upper
43	100		
58	50.5	43.0	64.6
57	18.6	14.6	21.8
100	10.6	9.7	14.5





#49

Dibromochloromethane

Concen: 17.94 ug/L

RT: 10.989 min Scan# 1504

Delta R.T. -0.000 min

Lab File: VY003988.D

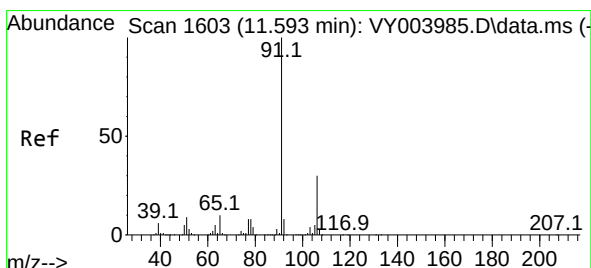
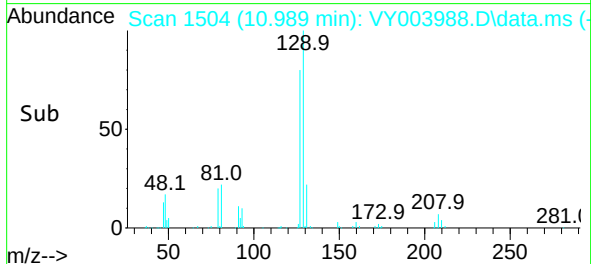
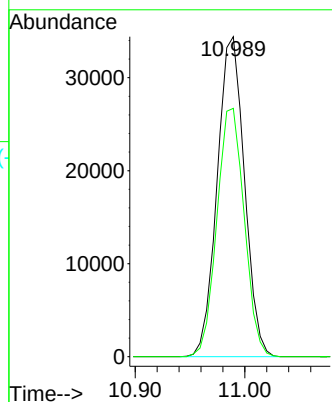
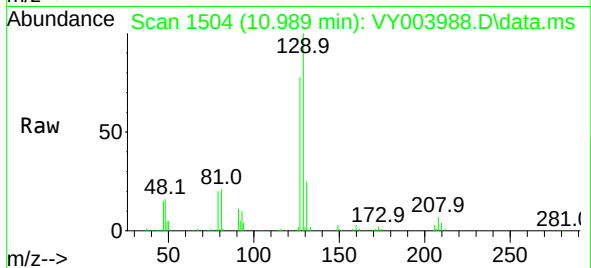
Acq: 05 Feb 2021 15:09

Tgt Ion:129 Resp: 59447

Ion Ratio Lower Upper

129 100

127 77.6 55.0 102.2



#52

Ethylbenzene

Concen: 14.51 ug/L

RT: 11.593 min Scan# 1603

Delta R.T. -0.000 min

Lab File: VY003988.D

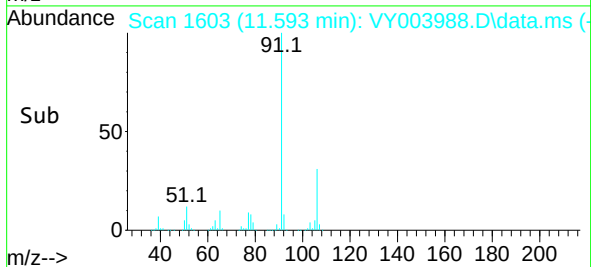
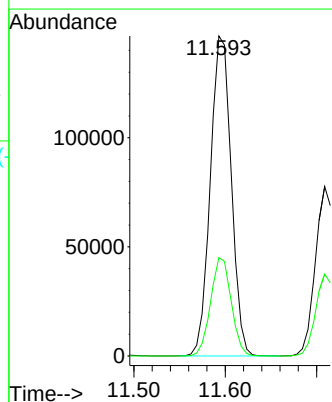
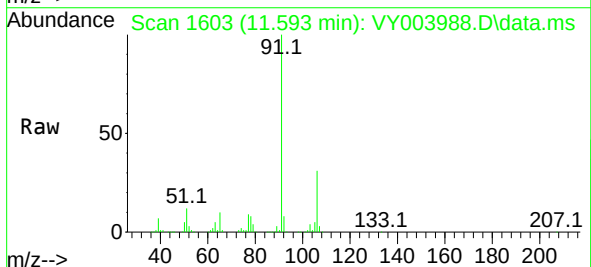
Acq: 05 Feb 2021 15:09

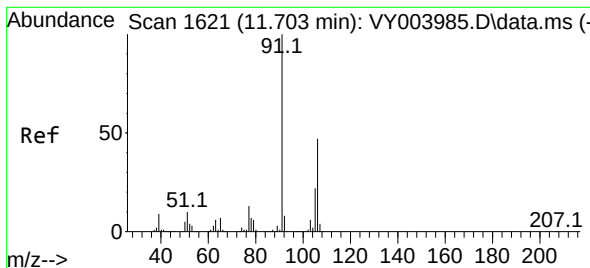
Tgt Ion: 91 Resp: 232888

Ion Ratio Lower Upper

91 100

106 30.7 22.8 42.4





#53

m,p-Xylene

Concen: 9.61 ug/L

RT: 11.709 min Scan# 1622

Delta R.T. 0.006 min

Lab File: VY003988.D

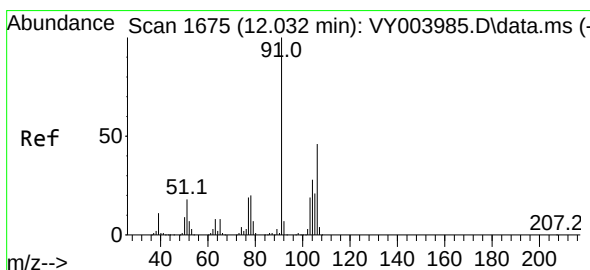
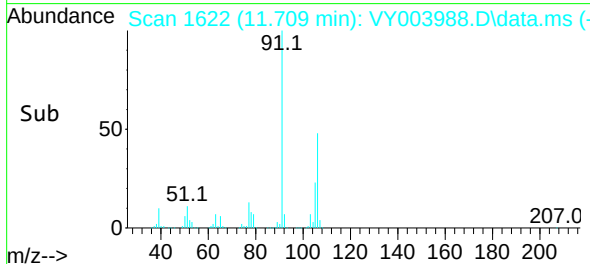
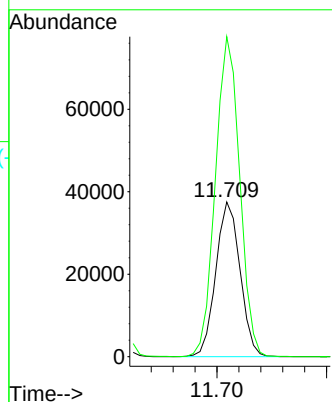
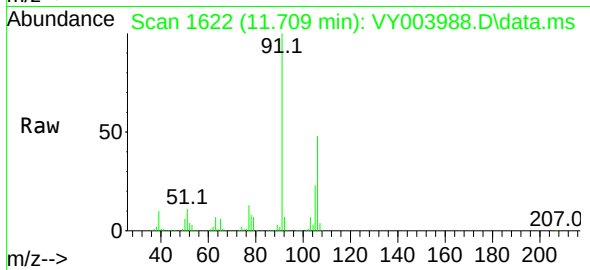
Acq: 05 Feb 2021 15:09

Tgt Ion:106 Resp: 57682

Ion Ratio Lower Upper

106 100

91 206.9 133.1 247.3



#54

o-Xylene

Concen: 11.93 ug/L

RT: 12.032 min Scan# 1675

Delta R.T. -0.000 min

Lab File: VY003988.D

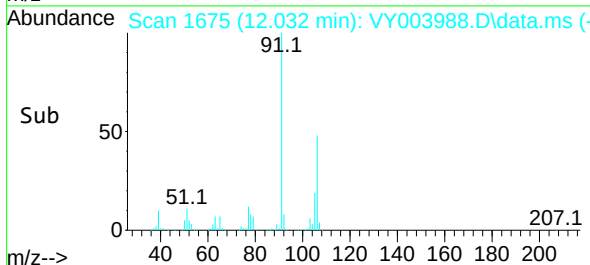
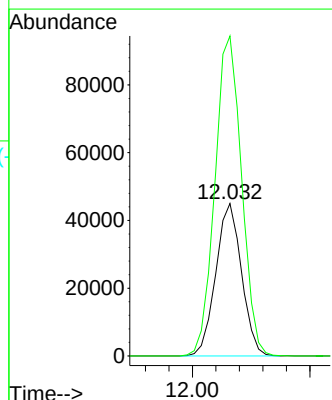
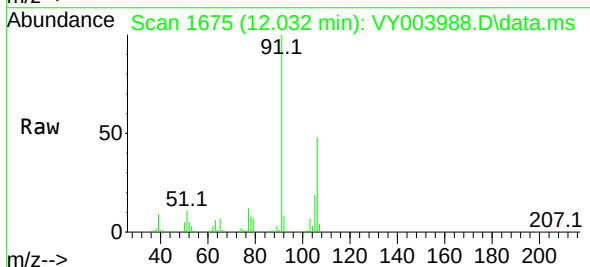
Acq: 05 Feb 2021 15:09

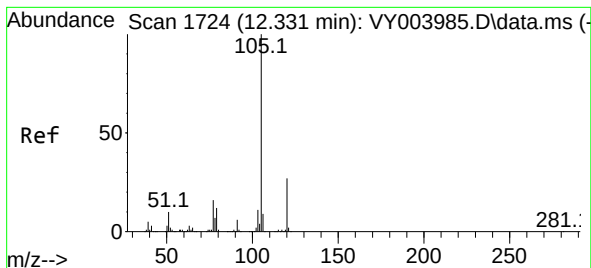
Tgt Ion:106 Resp: 68513

Ion Ratio Lower Upper

106 100

91 209.8 144.1 267.5

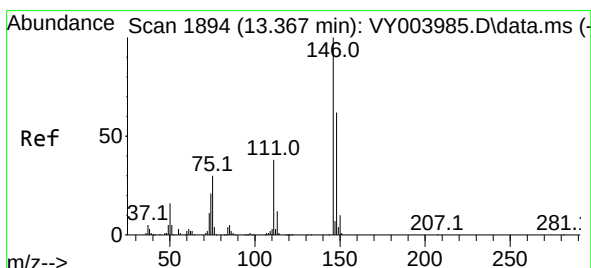
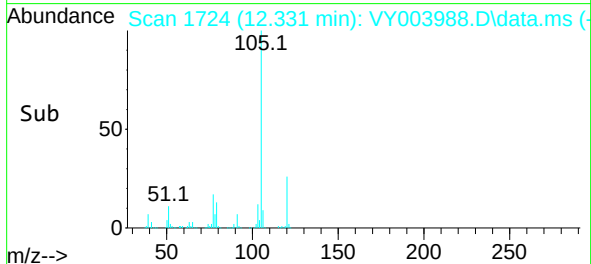
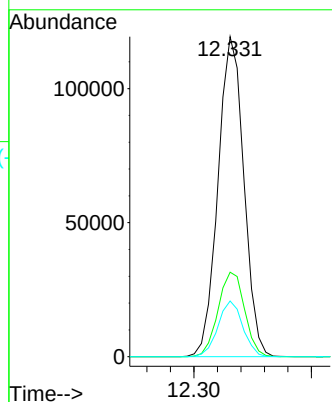
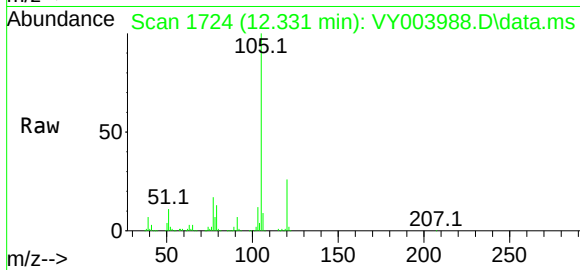




#60
Isopropylbenzene
Concen: 12.14 ug/L
RT: 12.331 min Scan# 1724
Delta R.T. -0.000 min
Lab File: VY003988.D
Acq: 05 Feb 2021 15:09

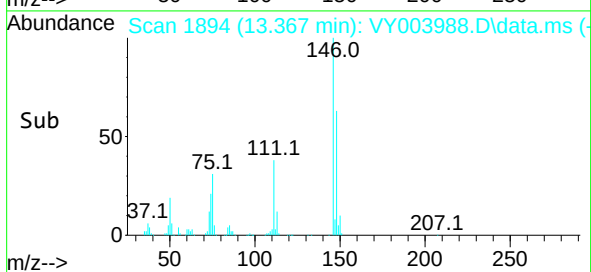
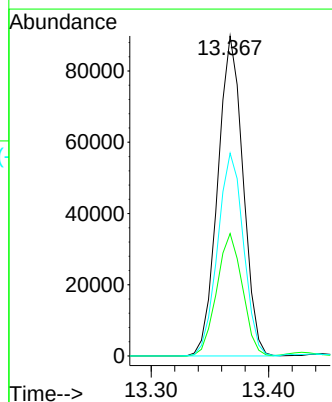
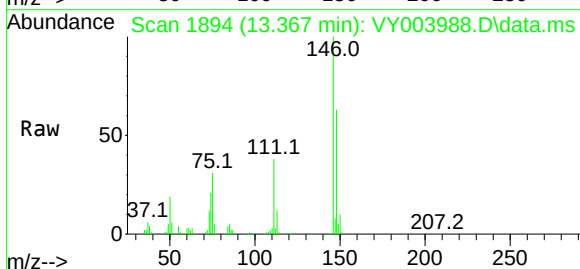
Instrument :
MSVOA_Y
ClientSampleId :
X2Z59

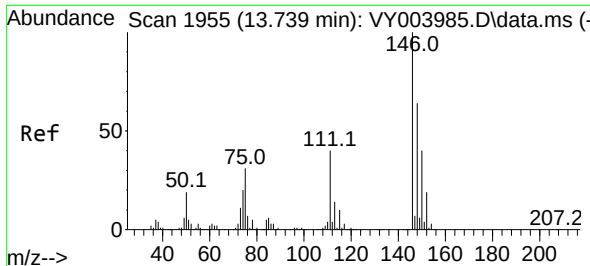
Tgt Ion:105 Resp: 182368
Ion Ratio Lower Upper
105 100
120 27.1 22.0 33.0
77 16.7 12.1 18.1



#64
1,3-Dichlorobenzene
Concen: 19.37 ug/L
RT: 13.367 min Scan# 1894
Delta R.T. -0.000 min
Lab File: VY003988.D
Acq: 05 Feb 2021 15:09

Tgt Ion:146 Resp: 134535
Ion Ratio Lower Upper
146 100
111 38.3 26.6 49.4
148 63.3 46.3 86.1

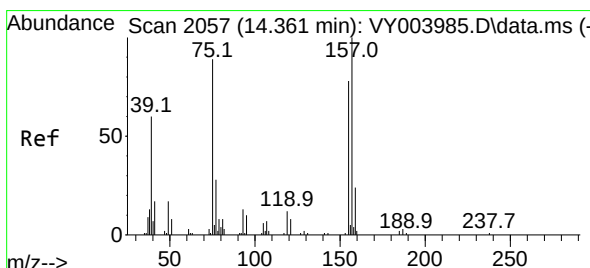
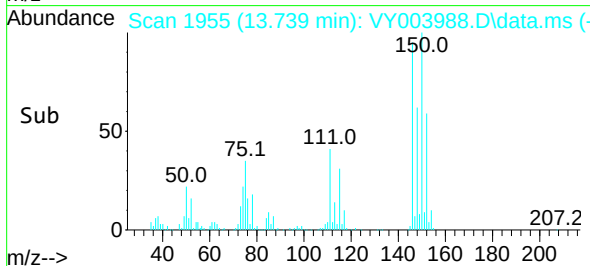
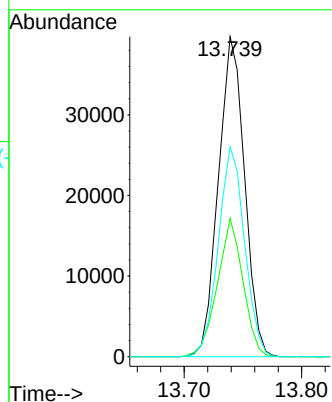
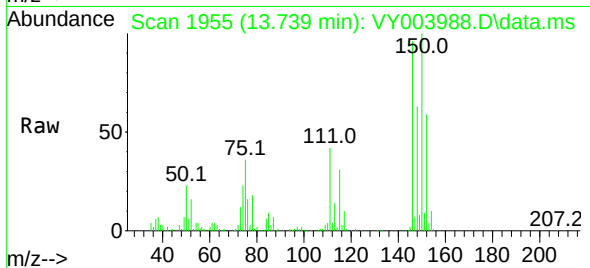




#67
1,2-Dichlorobenzene
Concen: 9.53 ug/L
RT: 13.739 min Scan# 1955
Delta R.T. -0.000 min
Lab File: VY003988.D
Acq: 05 Feb 2021 15:09

Instrument :
MSVOA_Y
ClientSampled :
X2Z59

Tgt Ion:	146	Resp:	61511
Ion	Ratio	Lower	Upper
146	100		
111	43.2	31.0	46.6
148	65.6	51.0	76.4



#68
1,2-Dibromo-3-chloropropane
Concen: 15.17 ug/L
RT: 14.361 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VY003988.D
Acq: 05 Feb 2021 15:09

Tgt Ion:	75	Resp:	9830
Ion	Ratio	Lower	Upper
75	100		
155	81.0	73.4	110.0
157	96.9	98.1	147.1#

