

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012621\
 Data File : VY003940.D
 Acq On : 26 Jan 2021 16:02
 Operator : SY/MD
 Sample : L4824-06
 Misc : 5.00g/10mL/MSVOA_Y/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Jan 27 05:22:25 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\SFAMYL012621SMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Jan 26 14:06:12 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.697	114	213313	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.496	117	199124	25.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.428	152	109609	25.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.247	65	102953	23.93	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	95.72%
7) Chloroethane-d5	2.765	69	79495	24.20	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	96.80%
11) 1,1-Dichloroethene-d2	3.863	63	124519	18.11	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	72.44%
21) 2-Butanone-d5	6.899	46	63437	46.71	ug/L	-0.01
Spiked Amount	50.000	Range	20 - 135	Recovery	=	93.42%
24) Chloroform-d	7.496	84	145819	23.12	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	92.48%
26) 1,2-Dichloroethane-d4	8.155	65	90056	23.59	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	94.36%
32) Benzene-d6	8.118	84	292972	24.29	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	97.16%
36) 1,2-Dichloropropane-d6	9.130	67	89573	24.03	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	96.12%
41) Toluene-d8	10.185	98	276599	24.06	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	96.24%
43) trans-1,3-Dichloroprop...	10.441	79	42421	22.06	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	88.24%
47) 2-Hexanone-d5	10.788	63	43208	43.77	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	87.54%
56) 1,1,2,2-Tetrachloroeth...	12.563	84	79964	23.17	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	92.68%
66) 1,2-Dichlorobenzene-d4	13.727	152	98042	23.21	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	92.84%
Target Compounds						
					Qvalue	
10) 1,1,2-Trichloro-1,2,2-...	3.906	101	7369	2.36	ug/L #	77
12) 1,1-Dichloroethene	3.875	96	1704	0.57	ug/L #	1
15) Methyl Acetate	4.497	43	15182	6.28	ug/L	95
16) Methylene chloride	4.735	84	13148	3.51	ug/L	86
18) Methyl tert-butyl Ether	5.241	73	152031	16.96	ug/L #	94
22) 2-Butanone	7.003	43	79411	50.52	ug/L	93
25) Chloroform	7.521	83	43880	7.37	ug/L	93
33) Benzene	8.173	78	41891	3.28	ug/L	100
34) Trichloroethene	8.947	95	17718	5.22	ug/L	91
42) Toluene	10.252	91	91458	6.57	ug/L	93
44) trans-1,3-Dichloropropene	10.441	75	3118	0.63	ug/L	93
45) 1,1,2-Trichloroethane	10.648	97	29173	11.26	ug/L	96
46) Tetrachloroethene	10.727	164	2619	0.93	ug/L	81
51) Chlorobenzene	11.520	112	34338	3.93	ug/L #	88
52) Ethylbenzene	11.593	91	97498	6.27	ug/L	96
53) m,p-Xylene	11.709	106	37052	6.37	ug/L	91
54) o-Xylene	12.032	106	45363	8.15	ug/L	93
55) Styrene	12.044	104	41636	4.31	ug/L #	77
57) 1,1,2,2-Tetrachloroethane	12.587	83	37887	11.34	ug/L	98

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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\SFAMYL012621SMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Jan 26 14:06:12 2021
 Response via : Initial Calibration

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

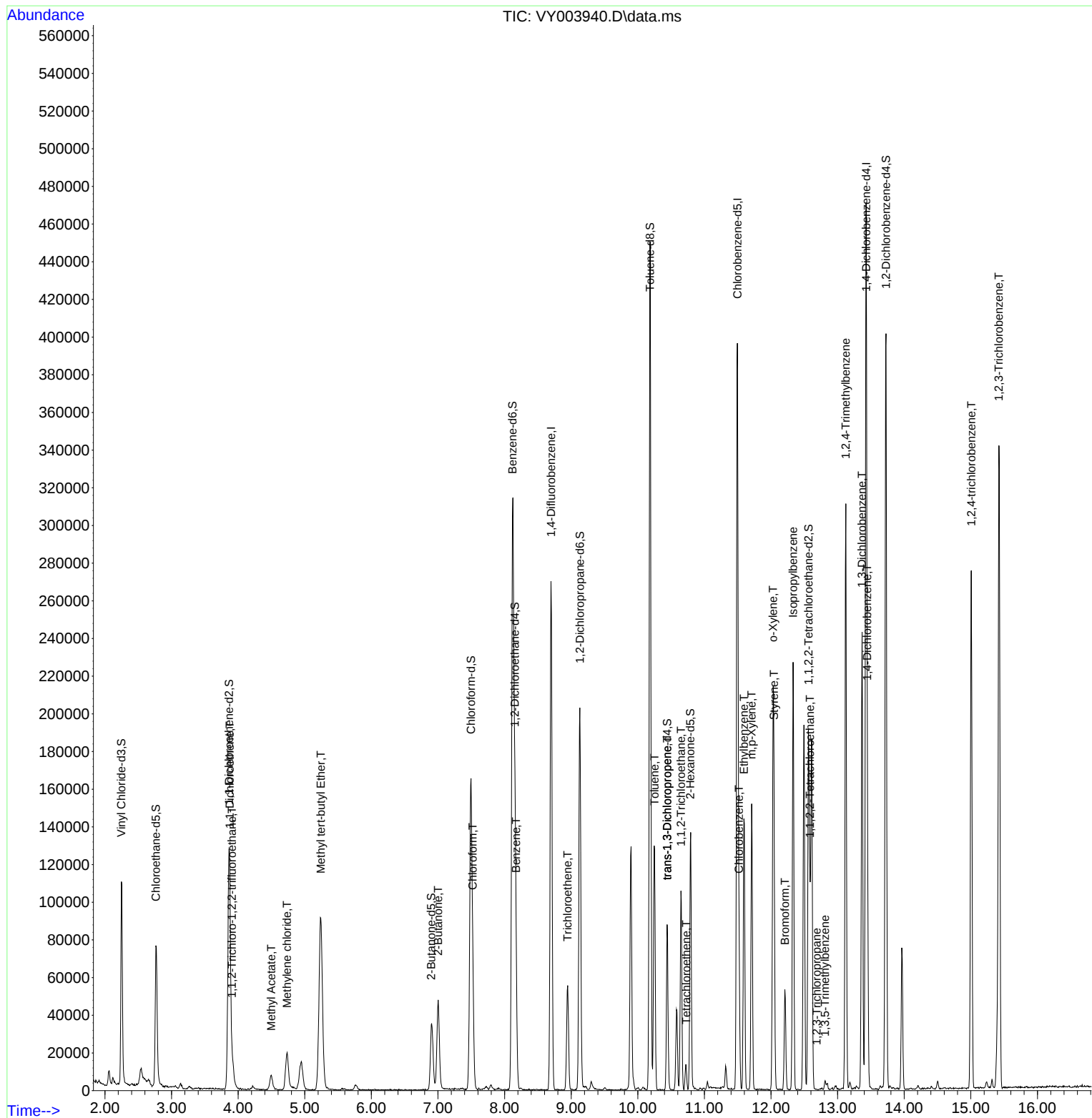
59) Bromoform	12.209	173	22231	9.72	ug/L #	98
60) Isopropylbenzene	12.331	105	132947	8.49	ug/L	97
61) 1,2,3-Trichloropropane	12.684	75	80	0.03	ug/L #	43
62) 1,3,5-Trimethylbenzene	12.812	105	1923	0.14	ug/L	96
63) 1,2,4-Trimethylbenzene	13.123	105	155452	11.87	ug/L	95
64) 1,3-Dichlorobenzene	13.367	146	89407	12.35	ug/L	95
65) 1,4-Dichlorobenzene	13.447	146	49245	6.80	ug/L	95
70) 1,2,4-trichlorobenzene	15.007	180	82014	18.74	ug/L	99
72) 1,2,3-Trichlorobenzene	15.422	180	109694	28.83	ug/L	99

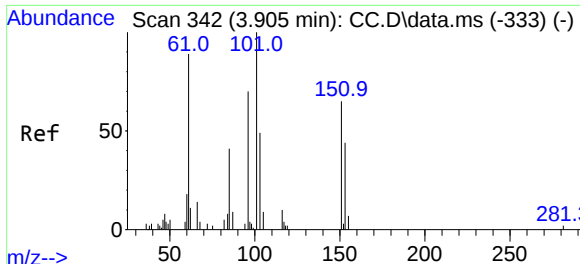
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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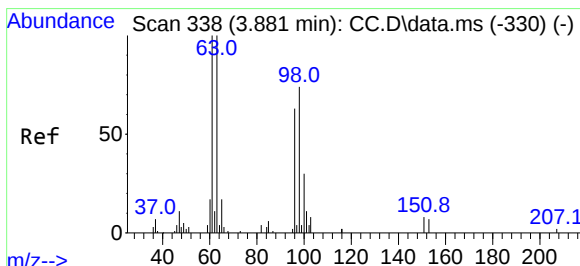
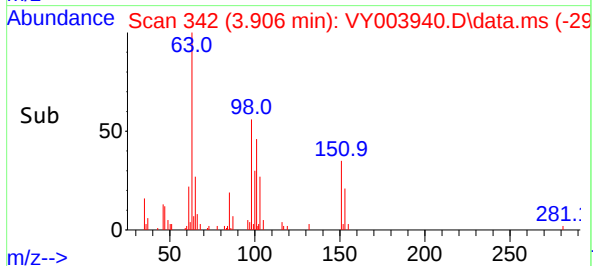
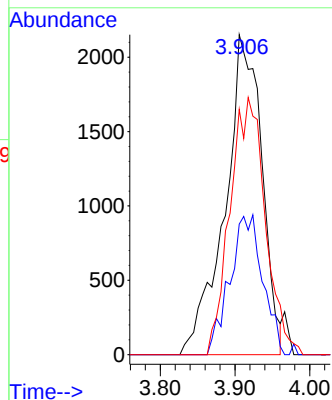
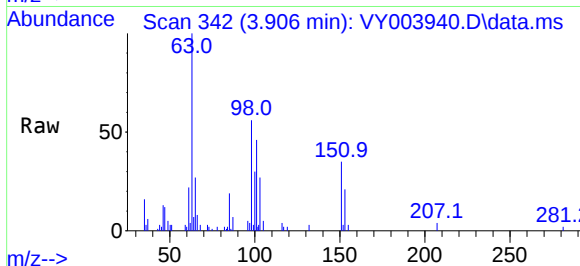




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 2.36 ug/L
 RT: 3.906 min Scan# 342
 Delta R.T. -0.006 min
 Lab File: VY003940.D
 Acq: 26 Jan 2021 16:02

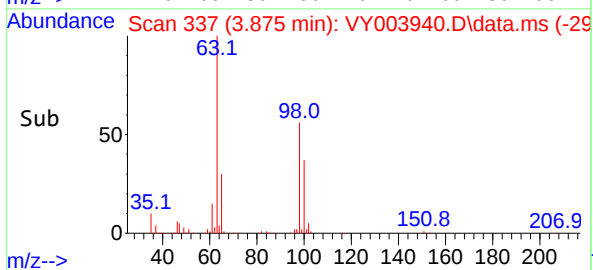
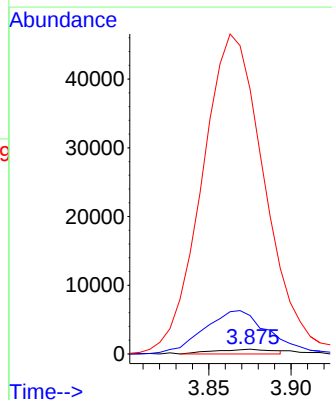
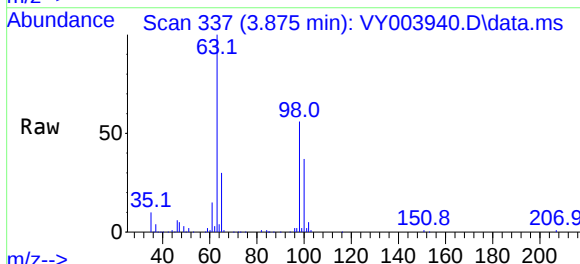
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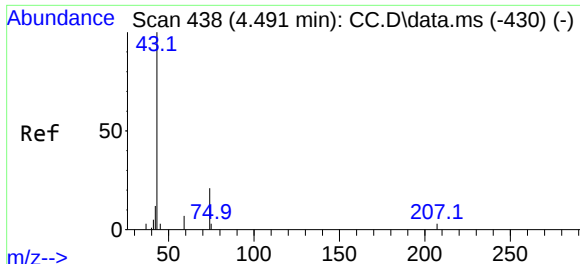
Tgt Ion:101 Resp: 7369
 Ion Ratio Lower Upper
 101 100
 85 6.7 35.6 53.4#
 151 77.2 64.2 96.2



#12
 1,1-Dichloroethene
 Concen: 0.57 ug/L
 RT: 3.875 min Scan# 337
 Delta R.T. -0.012 min
 Lab File: VY003940.D
 Acq: 26 Jan 2021 16:02

Tgt Ion: 96 Resp: 1704
 Ion Ratio Lower Upper
 96 100
 61 806.1 106.1 197.1#
 63 5557.3 62.9 116.9#

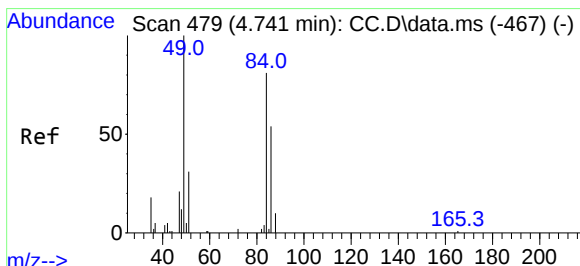
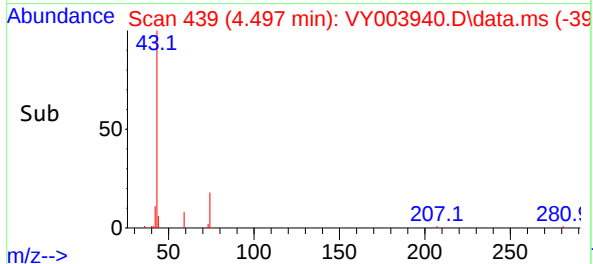
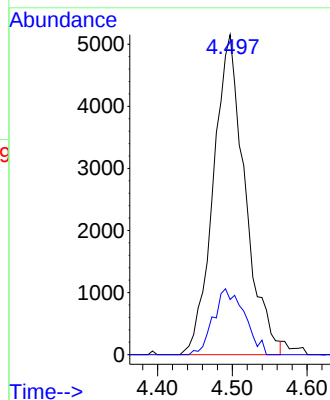
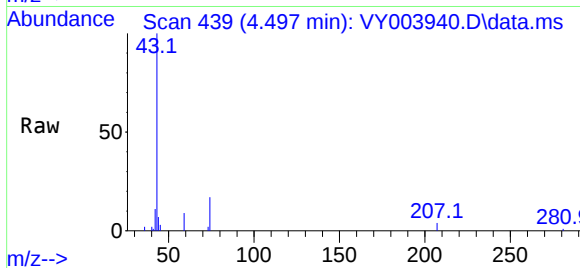




#15
Methyl Acetate
Concen: 6.28 ug/L
RT: 4.497 min Scan# 439
Delta R.T. -0.000 min
Lab File: VY003940.D
Acq: 26 Jan 2021 16:02

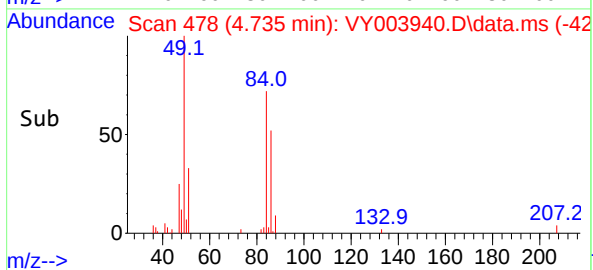
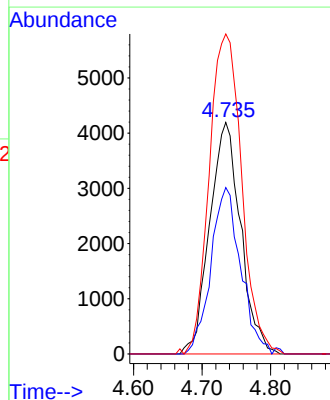
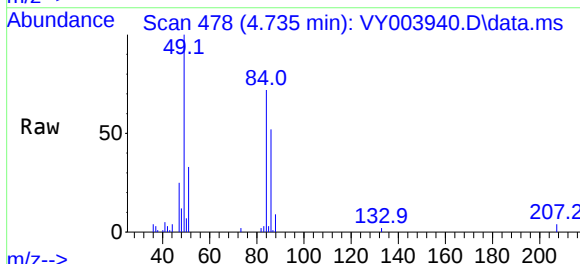
Instrument :
MSVOA_Y
ClientSampled :

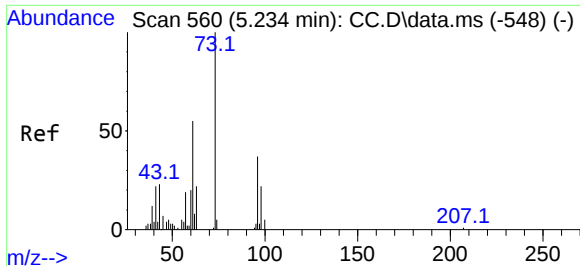
Tgt Ion: 43 Resp: 15182
Ion Ratio Lower Upper
43 100
74 20.2 18.2 27.2



#16
Methylene chloride
Concen: 3.51 ug/L
RT: 4.735 min Scan# 478
Delta R.T. -0.000 min
Lab File: VY003940.D
Acq: 26 Jan 2021 16:02

Tgt Ion: 84 Resp: 13148
Ion Ratio Lower Upper
84 100
86 71.9 43.3 80.3
49 138.2 85.3 158.5

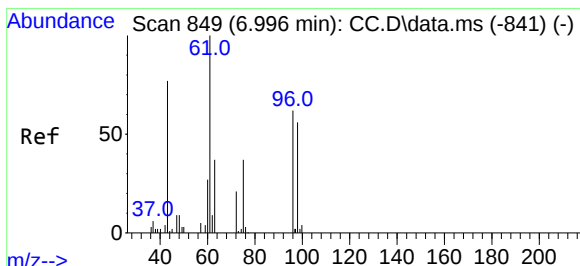
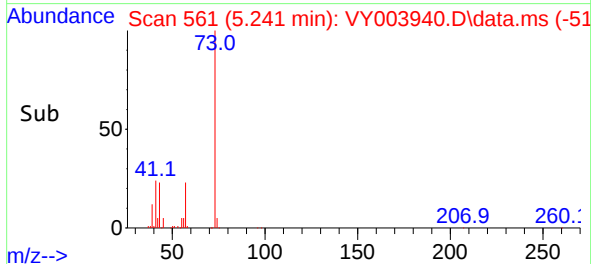
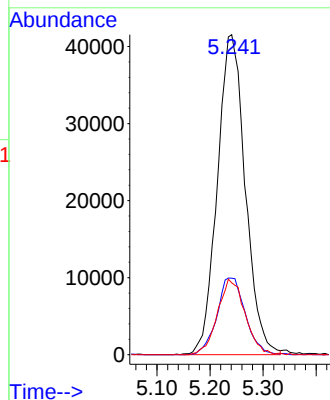
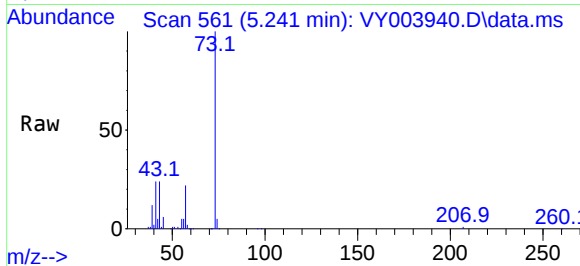




#18
Methyl tert-butyl Ether
Concen: 16.96 ug/L
RT: 5.241 min Scan# 561
Delta R.T. -0.000 min
Lab File: VY003940.D
Acq: 26 Jan 2021 16:02

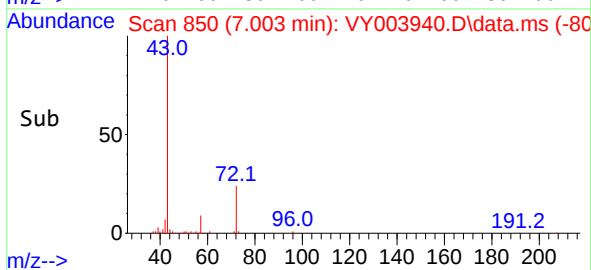
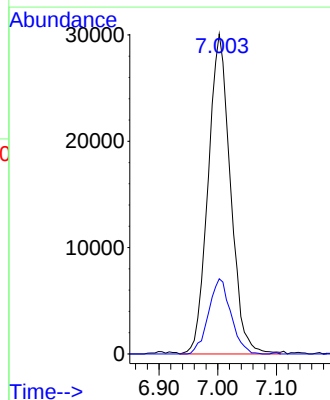
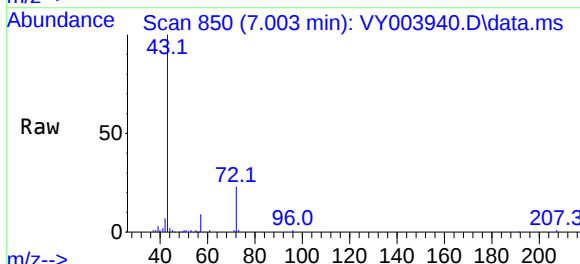
Instrument :
MSVOA_Y
ClientSampled :

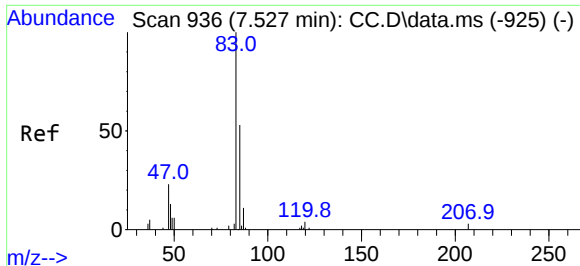
Tgt Ion: 73 Resp: 152031
Ion Ratio Lower Upper
73 100
43 13.6 15.2 22.8#
57 23.0 18.1 27.1



#22
2-Butanone
Concen: 50.52 ug/L
RT: 7.003 min Scan# 850
Delta R.T. -0.000 min
Lab File: VY003940.D
Acq: 26 Jan 2021 16:02

Tgt Ion: 43 Resp: 79411
Ion Ratio Lower Upper
43 100
72 23.4 13.5 40.5

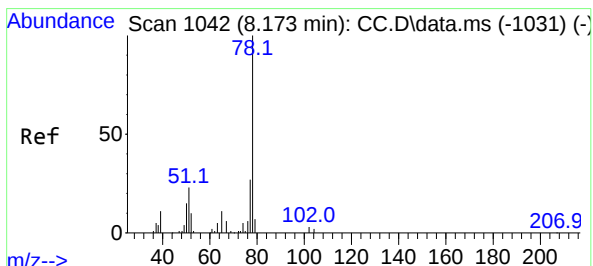
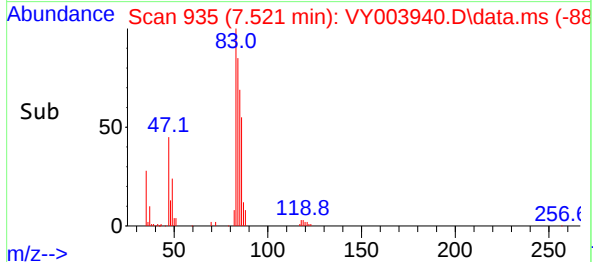
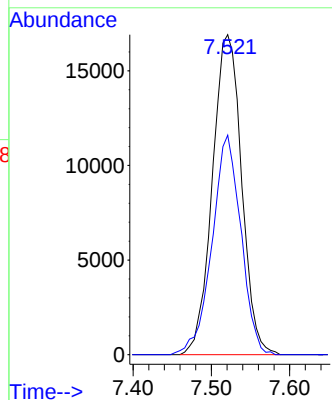
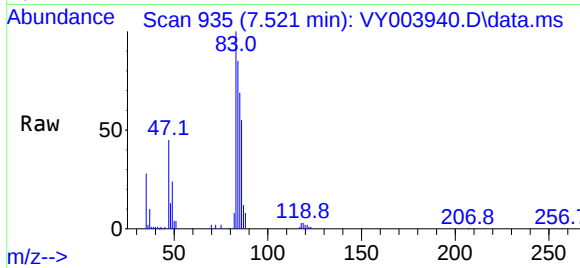




#25
Chloroform
Concen: 7.37 ug/L
RT: 7.521 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY003940.D
Acq: 26 Jan 2021 16:02

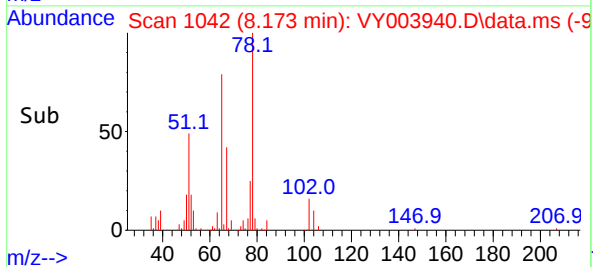
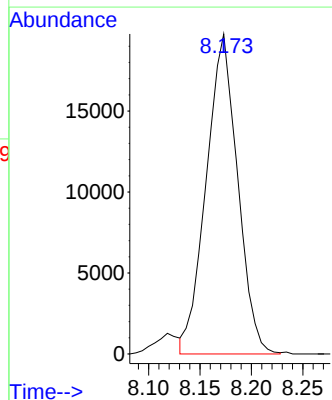
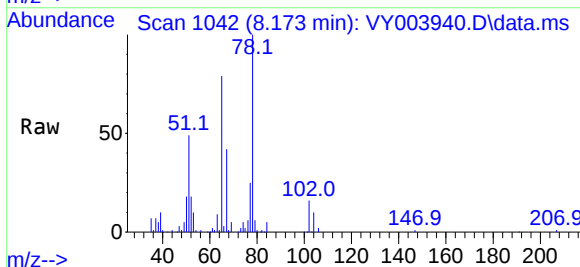
Instrument :
MSVOA_Y
ClientSampleId :

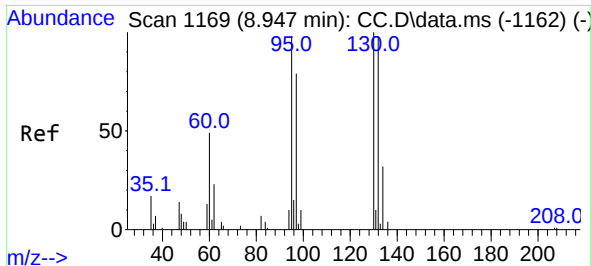
Tgt Ion: 83 Resp: 43880
Ion Ratio Lower Upper
83 100
85 68.6 44.4 82.4



#33
Benzene
Concen: 3.28 ug/L
RT: 8.173 min Scan# 1042
Delta R.T. -0.000 min
Lab File: VY003940.D
Acq: 26 Jan 2021 16:02

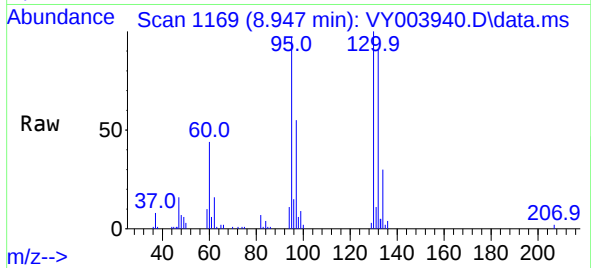
Tgt Ion: 78 Resp: 41891



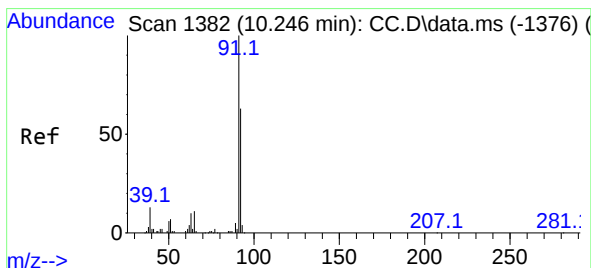
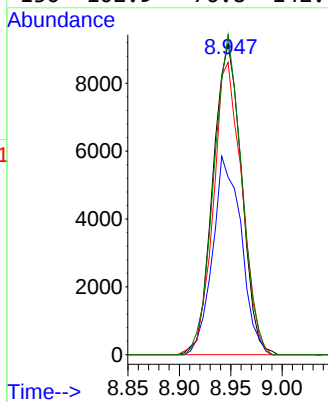
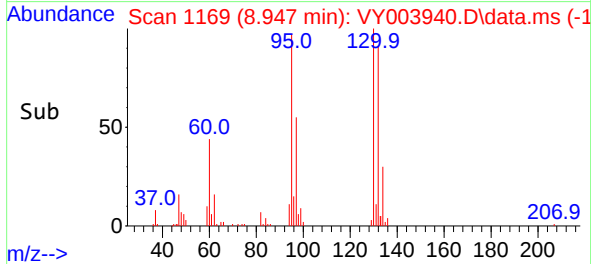


#34
Trichloroethene
Concen: 5.22 ug/L
RT: 8.947 min Scan# 1169
Delta R.T. -0.000 min
Lab File: VY003940.D
Acq: 26 Jan 2021 16:02

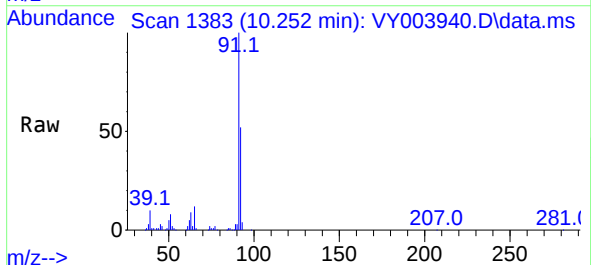
Instrument :
MSVOA_Y
ClientSampleId :



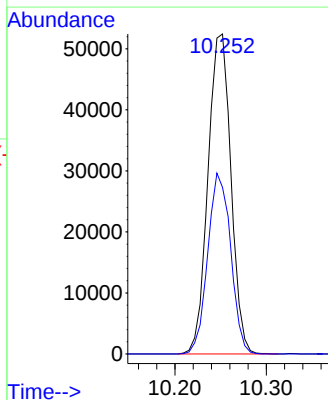
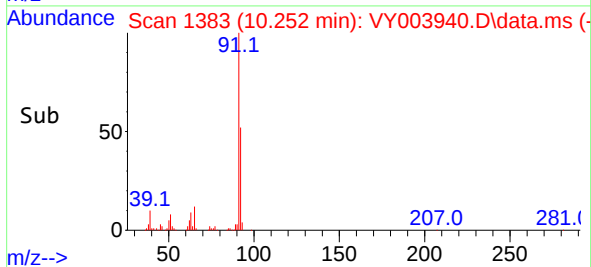
Tgt Ion: 95 Resp: 17718
Ion Ratio Lower Upper
95 100
97 57.1 44.7 83.1
132 94.0 74.7 138.7
130 102.9 76.8 142.6

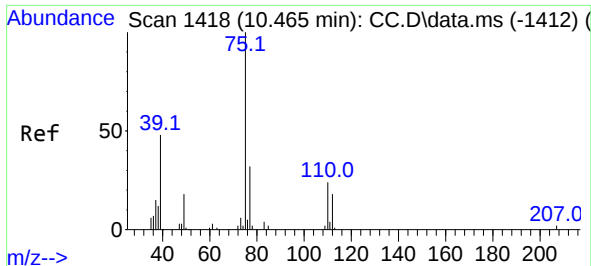


#42
Toluene
Concen: 6.57 ug/L
RT: 10.252 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VY003940.D
Acq: 26 Jan 2021 16:02



Tgt Ion: 91 Resp: 91458
Ion Ratio Lower Upper
91 100
92 52.1 40.1 74.5

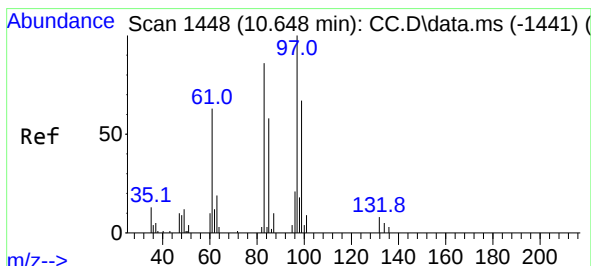
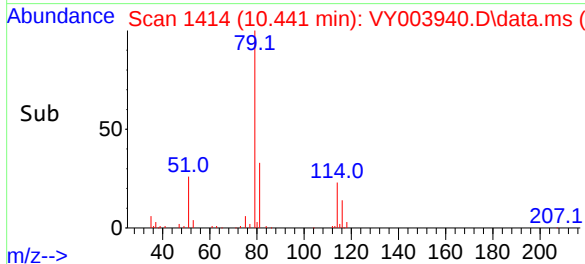
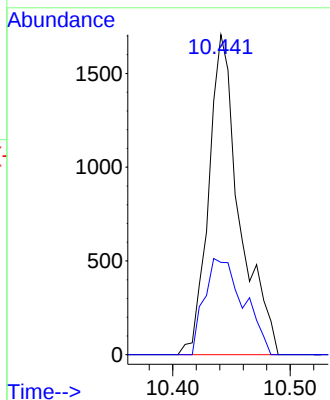
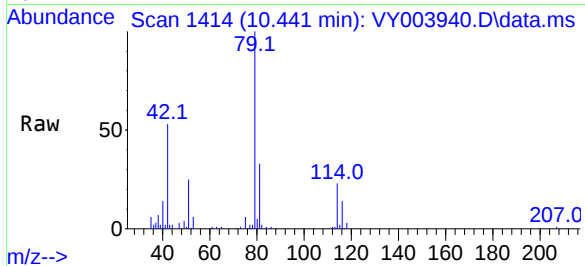




#44
trans-1,3-Dichloropropene
Concen: 0.63 ug/L
RT: 10.441 min Scan# 1414
Delta R.T. -0.031 min
Lab File: VY003940.D
Acq: 26 Jan 2021 16:02

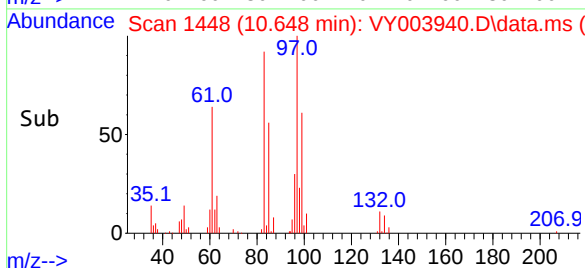
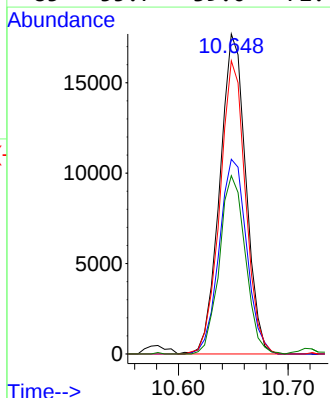
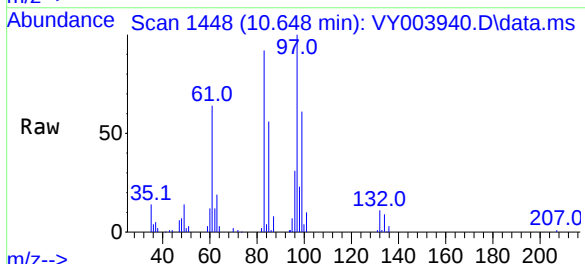
Instrument :
MSVOA_Y
ClientSampled :

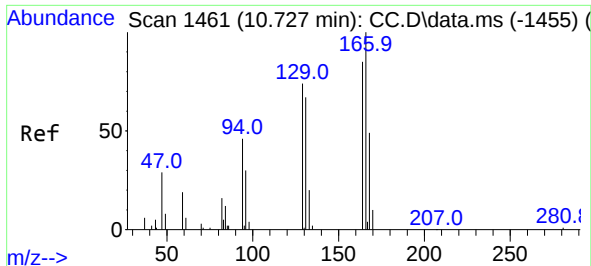
Tgt Ion: 75 Resp: 3118
Ion Ratio Lower Upper
75 100
77 28.9 22.9 42.5



#45
1,1,2-Trichloroethane
Concen: 11.26 ug/L
RT: 10.648 min Scan# 1448
Delta R.T. -0.000 min
Lab File: VY003940.D
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Tgt Ion: 97 Resp: 29173
Ion Ratio Lower Upper
97 100
99 60.8 45.1 83.9
83 91.6 59.7 110.9
85 55.7 39.0 72.4



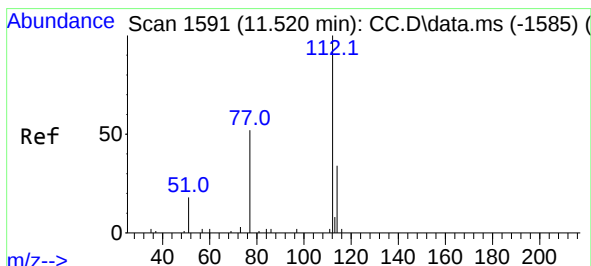
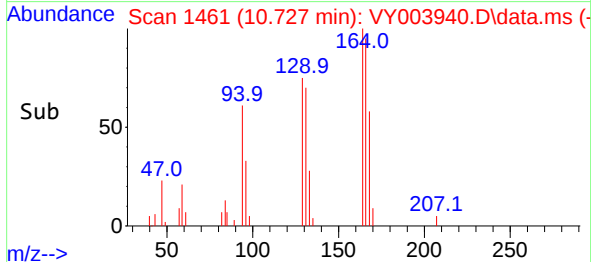
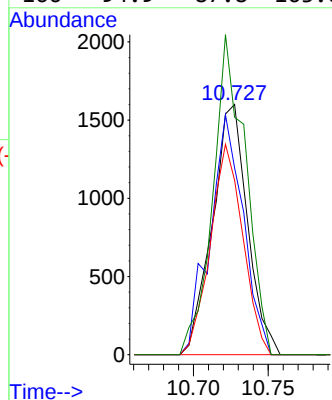
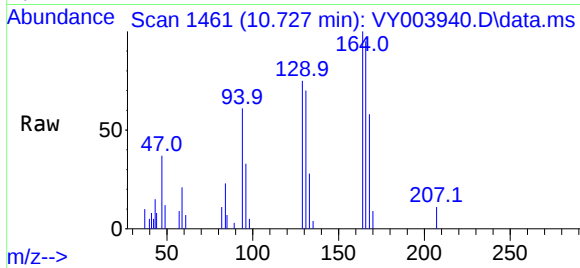


#46
Tetrachloroethene
Concen: 0.93 ug/L
RT: 10.727 min Scan# 1461
Delta R.T. 0.006 min
Lab File: VY003940.D
Acq: 26 Jan 2021 16:02

Instrument :
MSVOA_Y
ClientSampleId :

Tgt Ion:164 Resp: 2619

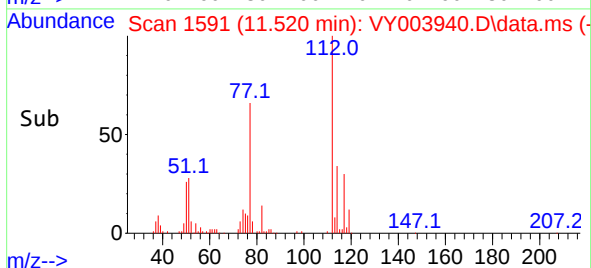
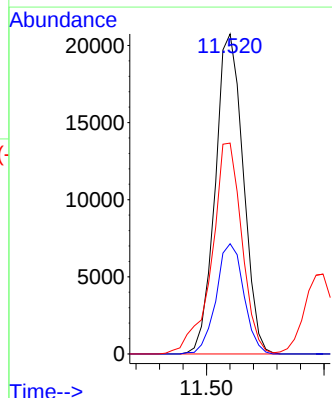
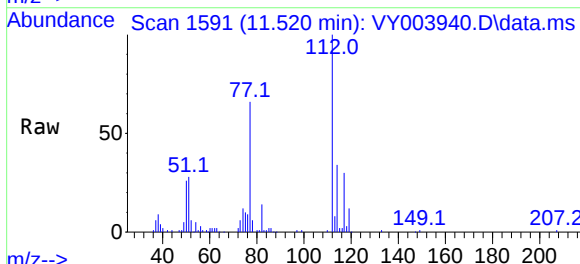
Ion	Ratio	Lower	Upper
164	100		
129	74.6	58.9	109.5
131	69.7	59.0	109.6
166	94.9	87.8	163.0

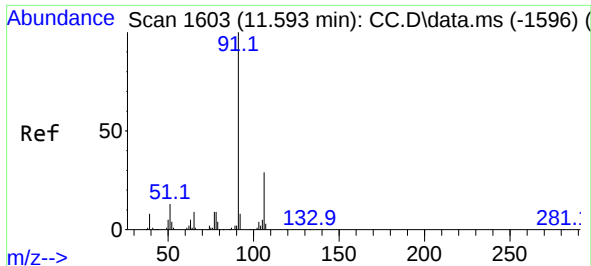


#51
Chlorobenzene
Concen: 3.93 ug/L
RT: 11.520 min Scan# 1591
Delta R.T. -0.000 min
Lab File: VY003940.D
Acq: 26 Jan 2021 16:02

Tgt Ion:112 Resp: 34338

Ion	Ratio	Lower	Upper
112	100		
114	34.4	22.2	41.2
77	65.9	43.8	65.6#

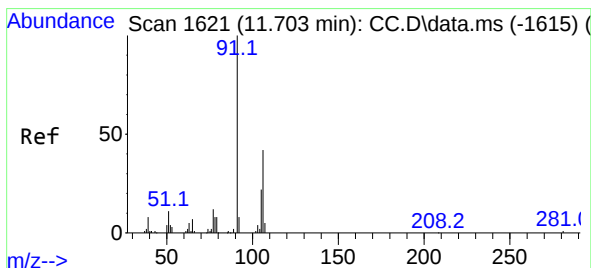
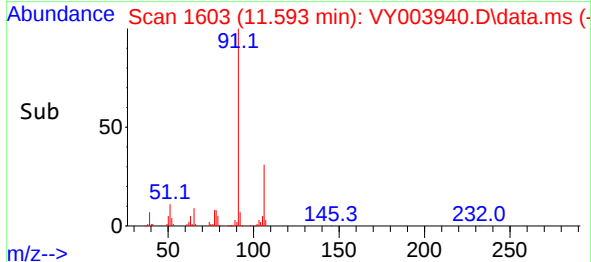
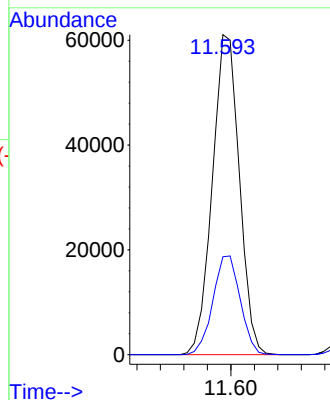
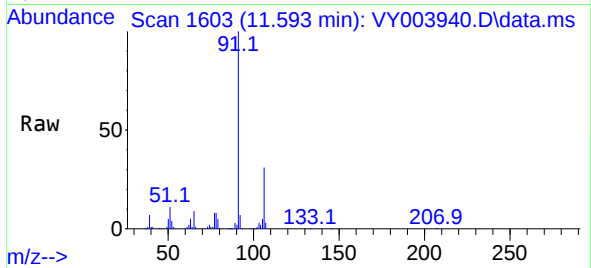




#52
Ethylbenzene
Concen: 6.27 ug/L
RT: 11.593 min Scan# 1603
Delta R.T. -0.006 min
Lab File: VY003940.D
Acq: 26 Jan 2021 16:02

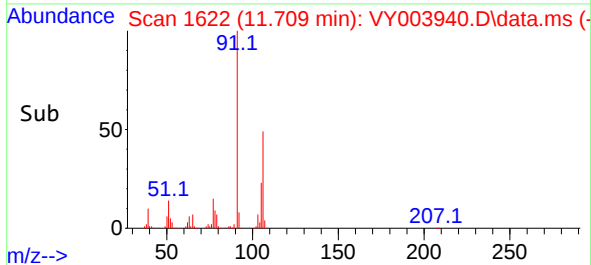
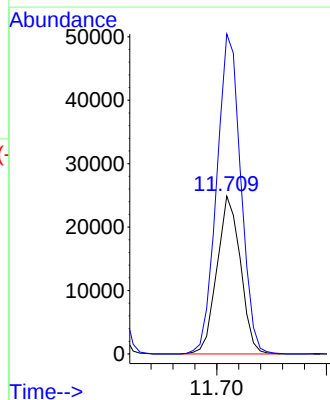
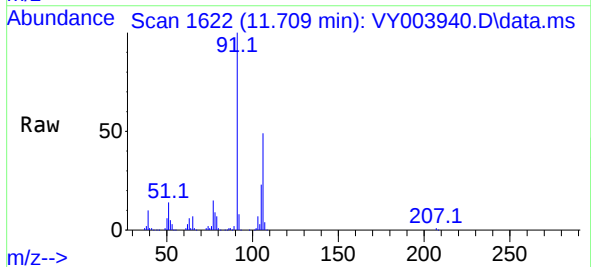
Instrument :
MSVOA_Y
ClientSampled :

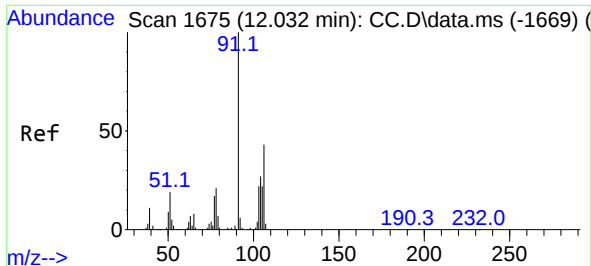
Tgt Ion: 91 Resp: 97498
Ion Ratio Lower Upper
91 100
106 30.6 22.8 42.4



#53
m,p-Xylene
Concen: 6.37 ug/L
RT: 11.709 min Scan# 1622
Delta R.T. 0.006 min
Lab File: VY003940.D
Acq: 26 Jan 2021 16:02

Tgt Ion: 106 Resp: 37052
Ion Ratio Lower Upper
106 100
91 202.7 133.1 247.3

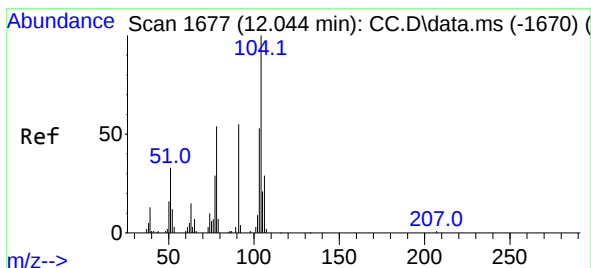
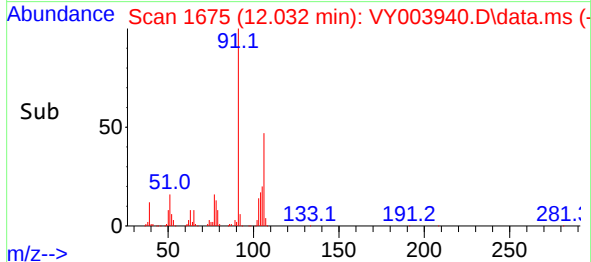
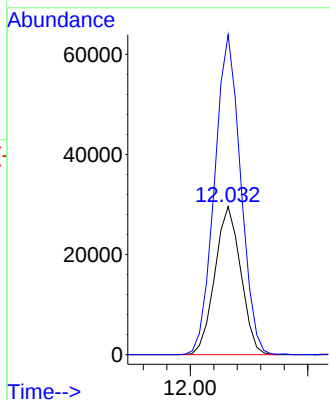
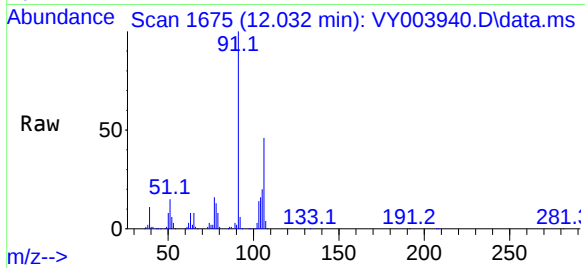




#54
o-Xylene
Concen: 8.15 ug/L
RT: 12.032 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VY003940.D
Acq: 26 Jan 2021 16:02

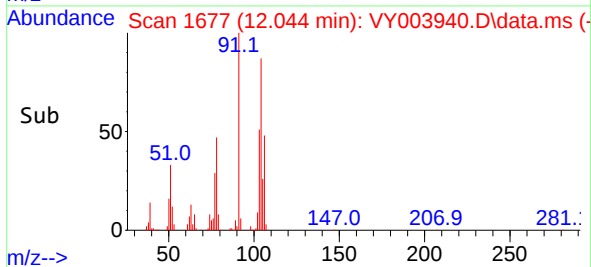
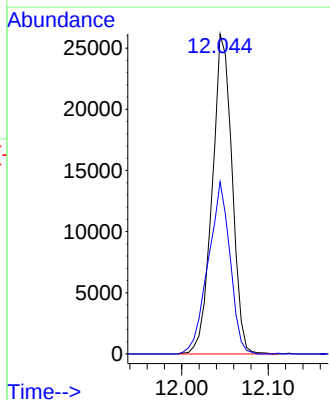
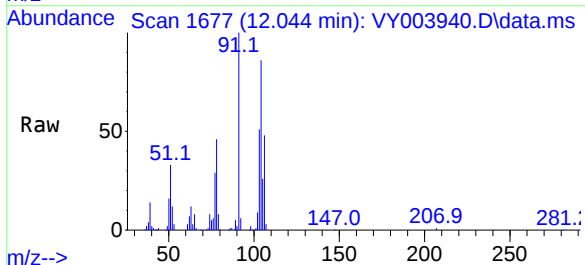
Instrument :
MSVOA_Y
ClientSampleId :

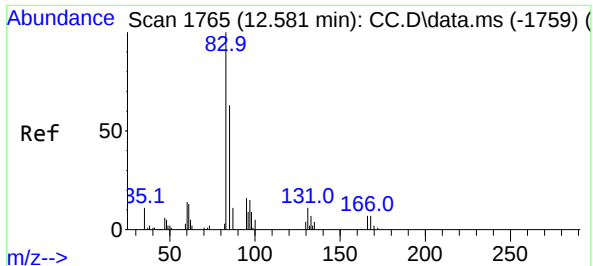
Tgt Ion:106 Resp: 45363
Ion Ratio Lower Upper
106 100
91 215.9 144.1 267.5



#55
Styrene
Concen: 4.31 ug/L
RT: 12.044 min Scan# 1677
Delta R.T. -0.000 min
Lab File: VY003940.D
Acq: 26 Jan 2021 16:02

Tgt Ion:104 Resp: 41636
Ion Ratio Lower Upper
104 100
78 53.8 27.6 51.4#

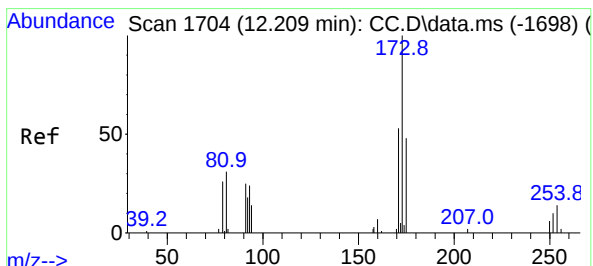
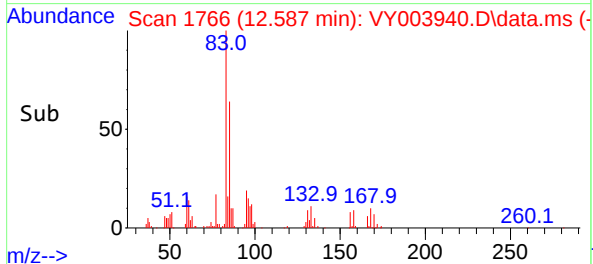
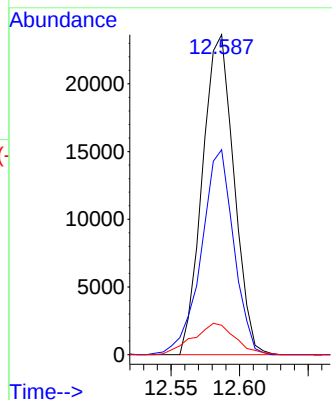
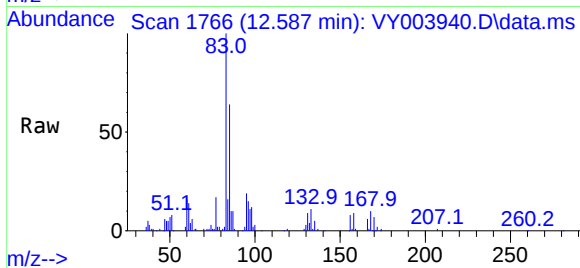




#57
1,1,2,2-Tetrachloroethane
Concen: 11.34 ug/L
RT: 12.587 min Scan# 1766
Delta R.T. -0.000 min
Lab File: VY003940.D
Acq: 26 Jan 2021 16:02

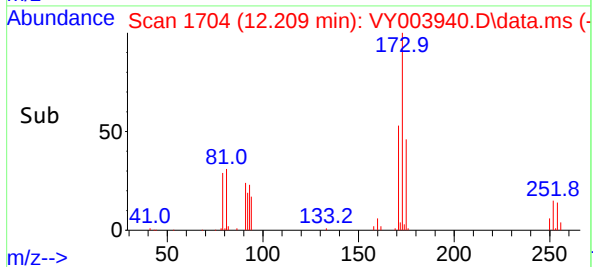
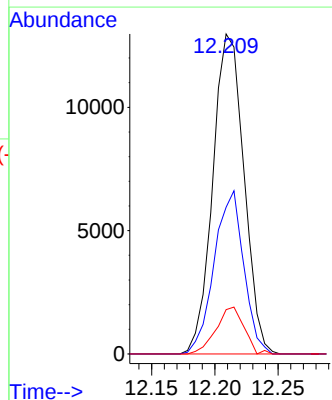
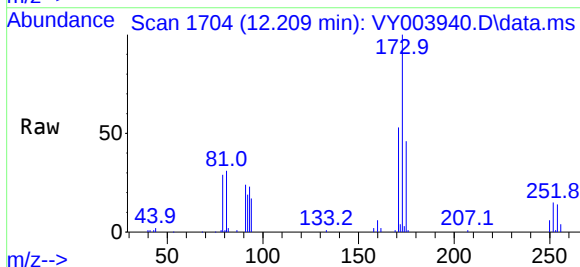
Instrument :
MSVOA_Y
ClientSampled :

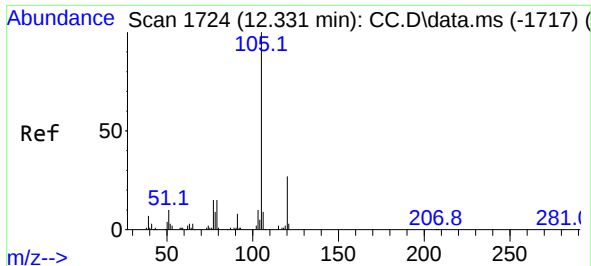
Tgt Ion: 83 Resp: 37887
Ion Ratio Lower Upper
83 100
85 64.0 46.1 85.7
131 9.2 8.1 12.1



#59
Bromoform
Concen: 9.72 ug/L
RT: 12.209 min Scan# 1704
Delta R.T. -0.000 min
Lab File: VY003940.D
Acq: 26 Jan 2021 16:02

Tgt Ion:173 Resp: 22231
Ion Ratio Lower Upper
173 100
175 48.3 38.2 57.4
254 12.9 8.0 12.0#



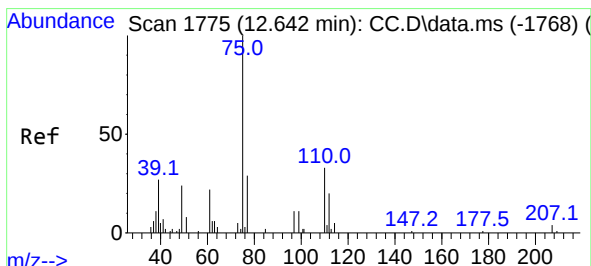
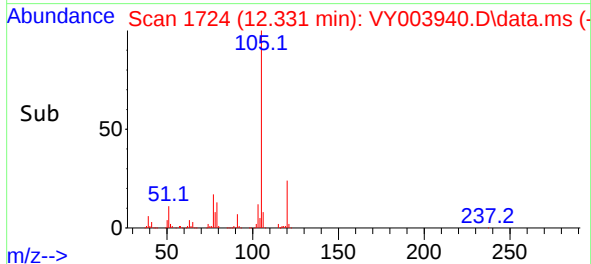
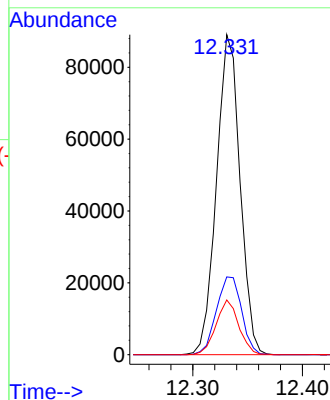
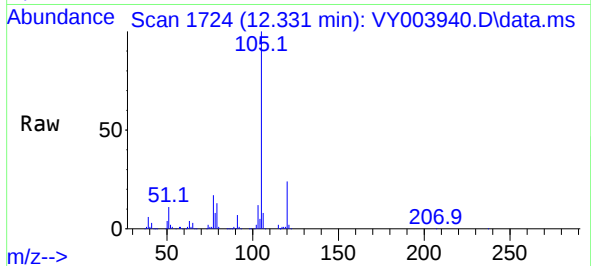


#60
Isopropylbenzene
Concen: 8.49 ug/L
RT: 12.331 min Scan# 1724
Delta R.T. -0.000 min
Lab File: VY003940.D
Acq: 26 Jan 2021 16:02

Instrument :
MSVOA_Y
ClientSampled :

Tgt Ion:105 Resp: 132947

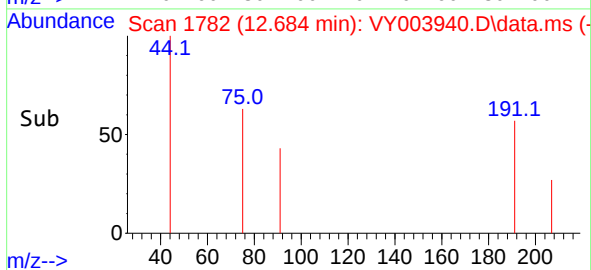
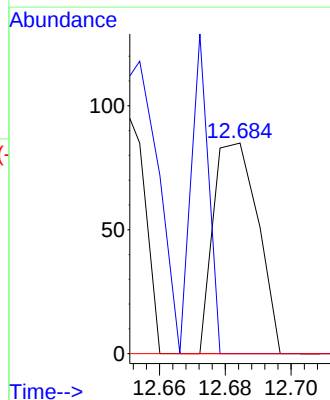
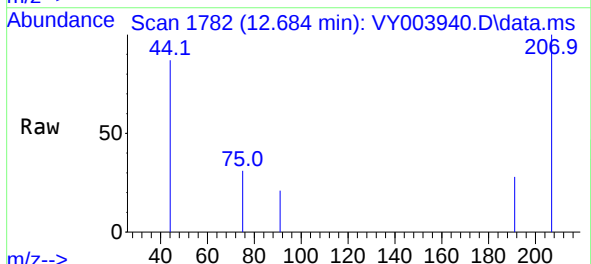
Ion	Ratio	Lower	Upper
105	100		
120	26.0	22.0	33.0
77	16.5	12.1	18.1

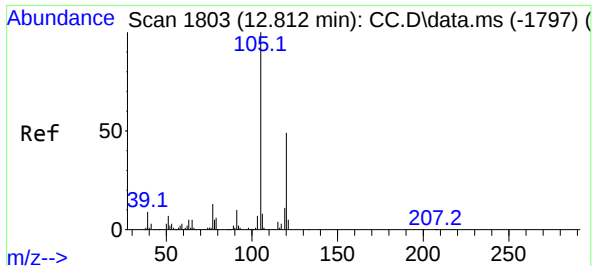


#61
1,2,3-Trichloropropane
Concen: 0.03 ug/L
RT: 12.684 min Scan# 1782
Delta R.T. 0.049 min
Lab File: VY003940.D
Acq: 26 Jan 2021 16:02

Tgt Ion: 75 Resp: 80

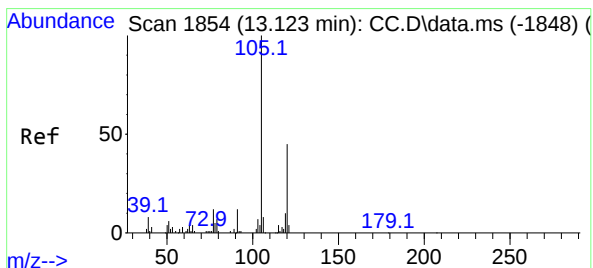
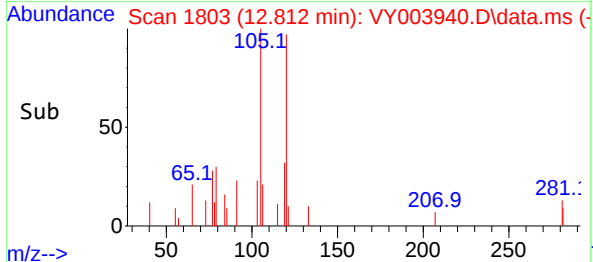
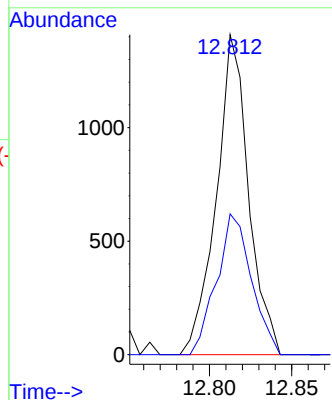
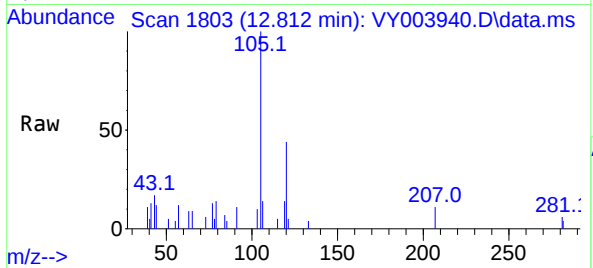
Ion	Ratio	Lower	Upper
75	100		
77	58.8	26.3	39.5#
110	0.0	33.0	49.4#





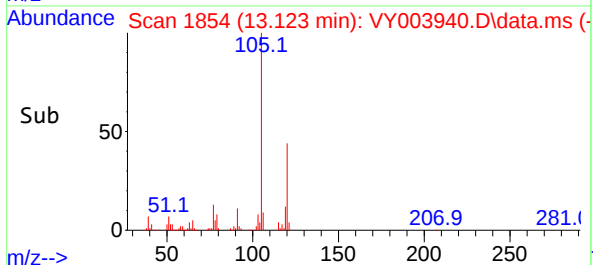
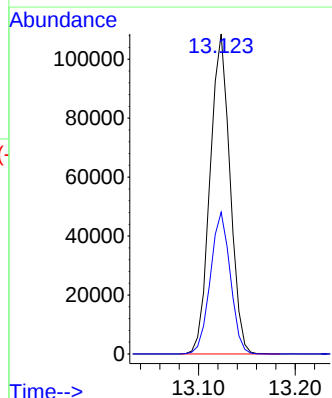
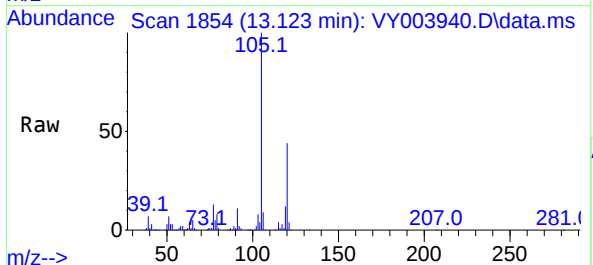
#62
1,3,5-Trimethylbenzene
Concen: 0.14 ug/L
RT: 12.812 min Scan# 1803
Delta R.T. -0.000 min
Lab File: VY003940.D
Acq: 26 Jan 2021 16:02

Tgt Ion:105 Resp: 1923
Ion Ratio Lower Upper
105 100
120 47.6 40.4 60.6

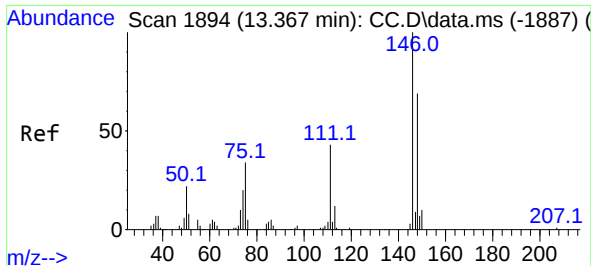


#63
1,2,4-Trimethylbenzene
Concen: 11.87 ug/L
RT: 13.123 min Scan# 1854
Delta R.T. -0.000 min
Lab File: VY003940.D
Acq: 26 Jan 2021 16:02

Tgt Ion:105 Resp: 155452
Ion Ratio Lower Upper
105 100
120 44.3 38.0 57.0

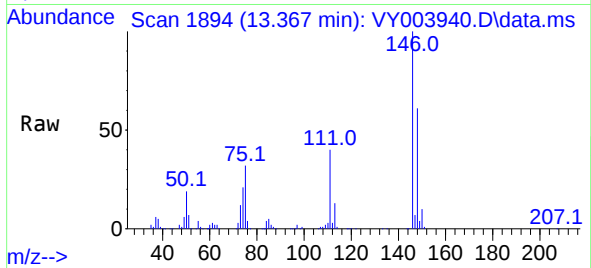


Instrument :
MSVOA_Y
ClientSampled :

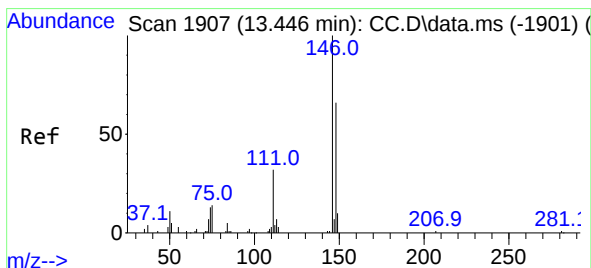
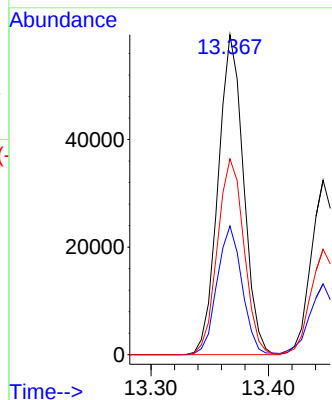
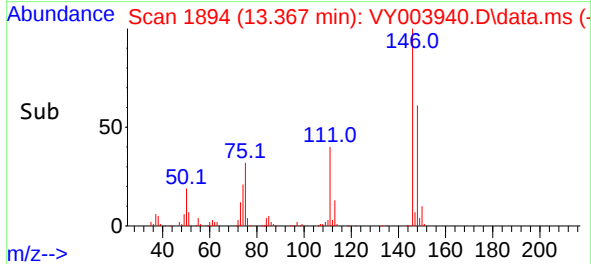


#64
1,3-Dichlorobenzene
Concen: 12.35 ug/L
RT: 13.367 min Scan# 1894
Delta R.T. -0.000 min
Lab File: VY003940.D
Acq: 26 Jan 2021 16:02

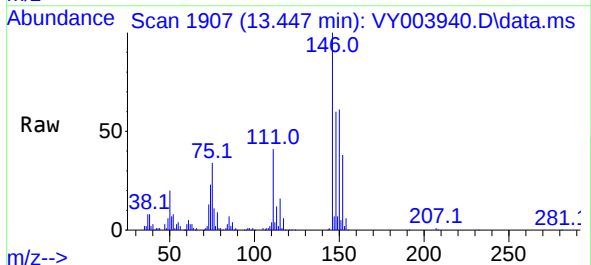
Instrument :
MSVOA_Y
ClientSampleId :



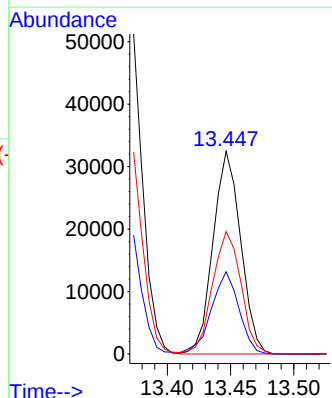
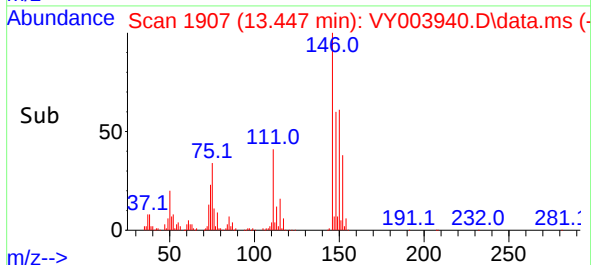
Tgt Ion:146 Resp: 89407
Ion Ratio Lower Upper
146 100
111 40.2 26.6 49.4
148 61.2 46.3 86.1

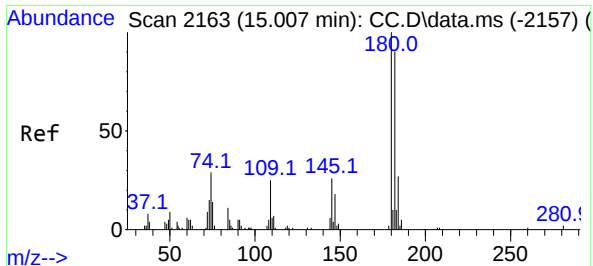


#65
1,4-Dichlorobenzene
Concen: 6.80 ug/L
RT: 13.447 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY003940.D
Acq: 26 Jan 2021 16:02



Tgt Ion:146 Resp: 49245
Ion Ratio Lower Upper
146 100
111 40.6 24.7 45.9
148 60.4 43.4 80.6

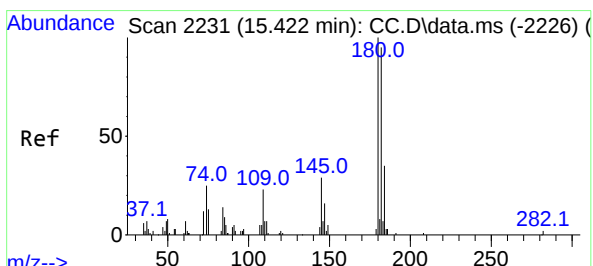
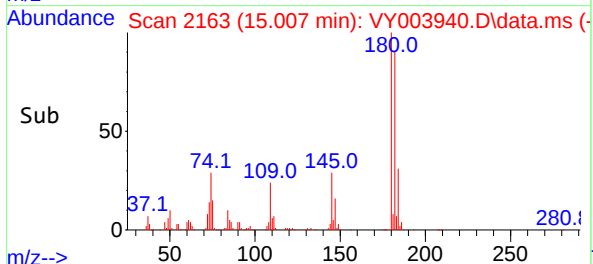
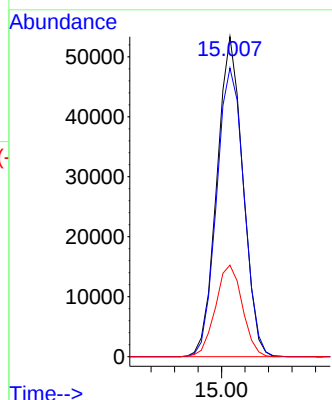
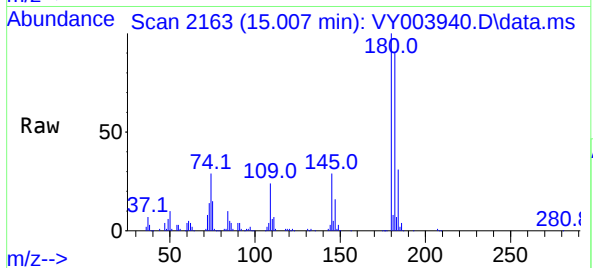




#70
1,2,4-trichlorobenzene
Concen: 18.74 ug/L
RT: 15.007 min Scan# 2163
Delta R.T. -0.000 min
Lab File: VY003940.D
Acq: 26 Jan 2021 16:02

Instrument :
MSVOA_Y
ClientSampled :

Tgt Ion:180 Resp: 82014
Ion Ratio Lower Upper
180 100
182 95.0 76.1 114.1
145 29.6 22.8 34.2



#72
1,2,3-Trichlorobenzene
Concen: 28.83 ug/L
RT: 15.422 min Scan# 2231
Delta R.T. -0.006 min
Lab File: VY003940.D
Acq: 26 Jan 2021 16:02

Tgt Ion:180 Resp: 109694
Ion Ratio Lower Upper
180 100
182 96.3 76.2 114.4
145 31.1 23.6 35.4

