

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW082421\
 Data File : VW019882.D
 Acq On : 24 Aug 2021 18:05
 Operator : SY/VA
 Sample : M3526-07
 Misc : 5.43g/10mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 EW7B9

Quant Time: Aug 25 01:02:41 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM081821SMA.M
 Quant Title : SFAM01.0
 QLast Update : Wed Aug 25 00:57:31 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.842	114	625594	25.000	ug/L	# 0.00
28) Chlorobenzene-d5	11.634	117	596285	25.000	ug/L	# 0.00
58) 1,4-Dichlorobenzene-d4	13.560	152	417884	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.361	65	165579	17.083	ug/L	0.00
Spiked Amount 25.000	Range 30 - 150		Recovery =	68.320%		
7) Chloroethane-d5	2.898	69	140701	16.538	ug/L	0.00
Spiked Amount 25.000	Range 30 - 150		Recovery =	66.160%		
11) 1,1-Dichloroethene-d2	4.025	63	196787	11.700	ug/L	0.00
Spiked Amount 25.000	Range 45 - 110		Recovery =	46.800%		
21) 2-Butanone-d5	7.086	46	66637	33.846	ug/L	0.00
Spiked Amount 50.000	Range 20 - 135		Recovery =	67.700%		
24) Chloroform-d	7.653	84	314377	18.273	ug/L	0.00
Spiked Amount 25.000	Range 40 - 150		Recovery =	73.080%		
26) 1,2-Dichloroethane-d4	8.305	65	168279	18.150	ug/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	72.600%		
32) Benzene-d6	8.281	84	670837	19.731	ug/L	0.00
Spiked Amount 25.000	Range 20 - 135		Recovery =	78.920%		
36) 1,2-Dichloropropane-d6	9.183	67	36332	3.529	ug/L	-0.09
Spiked Amount 25.000	Range 70 - 120		Recovery =	14.120%#		
41) Toluene-d8	10.335	98	4035643	129.528	ug/L	0.01
Spiked Amount 25.000	Range 30 - 130		Recovery =	518.120%#		
43) trans-1,3-Dichloroprop...	10.579	79	58331	13.714	ug/L	0.00
Spiked Amount 25.000	Range 30 - 135		Recovery =	54.840%		
47) 2-Hexanone-d5	10.927	63	164095	114.408	ug/L	0.00
Spiked Amount 50.000	Range 20 - 135		Recovery =	228.820%#		
56) 1,1,2,2-Tetrachloroeth...	12.695	84	215060	25.664	ug/L	0.00
Spiked Amount 25.000	Range 45 - 120		Recovery =	102.640%		
66) 1,2-Dichlorobenzene-d4	13.859	152	240199	16.757	ug/L	0.00
Spiked Amount 25.000	Range 75 - 120		Recovery =	67.040%#		
Target Compounds						Qvalue
3) Chloromethane	2.172	50	6015	0.788	ug/L #	42
13) Acetone	4.123	43	78672	46.808	ug/L	67
16) Methylene chloride	4.922	84	39626	3.691	ug/L #	29
19) 1,1-Dichloroethane	6.299	63	17926	1.136	ug/L #	1
22) 2-Butanone	7.183	43	121001	55.557	ug/L #	46
25) Chloroform	7.635	83	385848	23.643	ug/L #	20
27) 1,2-Dichloroethane	8.452	62	74282	6.977	ug/L #	1
29) Cyclohexane	7.970	56	16574767	1183.661	ug/L	88
33) Benzene	8.330	78	209010	5.711	ug/L	100
34) Trichloroethene	9.122	95	262229	27.563	ug/L #	16
35) Methylcyclohexane	9.079	83	847582	51.940	ug/L	97
37) 1,2-Dichloropropane	9.122	63	82150	9.064	ug/L	100
38) Bromodichloromethane	9.628	83	1512417	128.808	ug/L #	37
39) cis-1,3-Dichloropropene	10.104	75	5949	0.446	ug/L #	1
40) 4-Methyl-2-pentanone	10.226	43	142784	29.626	ug/L #	44
42) Toluene	10.396	91	449979	11.607	ug/L	92
45) 1,1,2-Trichloroethane	10.774	97	13654773	2080.953	ug/L #	22
48) 2-Hexanone	10.951	43	12504118	3727.034	ug/L #	22
50) 1,2-Dibromoethane	11.238	107	67801	11.001	ug/L #	1

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

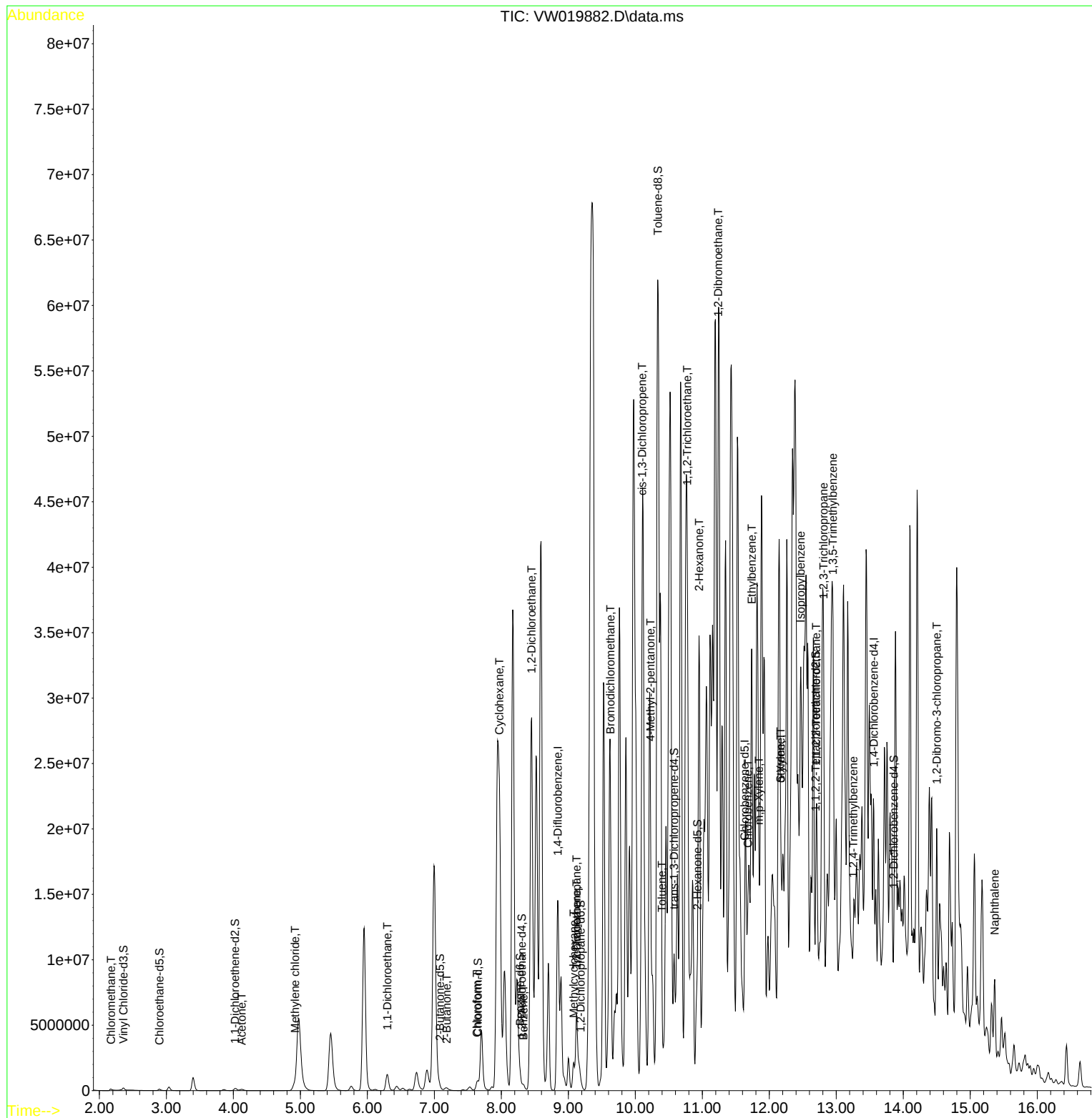
51) Chlorobenzene	11.683	112	31266	1.270	ug/L #	1
52) Ethylbenzene	11.738	91	5572299	133.510	ug/L	98
53) m,p-Xylene	11.847	106	1877334	117.131	ug/L	100
54) o-Xylene	12.170	106	274459	18.103	ug/L	62
55) Styrene	12.170	104	15432	0.596	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	12.701	83	479830	59.630	ug/L #	56
60) Isopropylbenzene	12.469	105	10312953	182.137	ug/L	96
61) 1,2,3-Trichloropropane	12.810	75	121083	14.778	ug/L #	1
62) 1,3,5-Trimethylbenzene	12.951	105	1137325	25.166	ug/L	99
63) 1,2,4-Trimethylbenzene	13.256	105	398429	8.698	ug/L	95
68) 1,2-Dibromo-3-chloropr...	14.499	75	36616	20.501	ug/L #	18
71) Naphthalene	15.365	128	5229570	196.179	ug/L	99

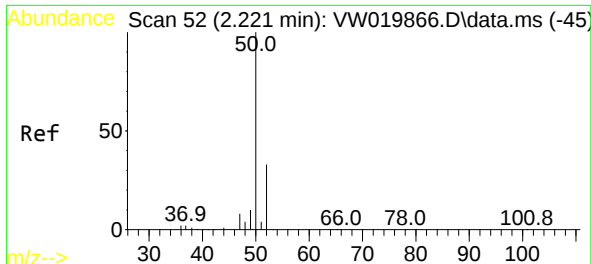
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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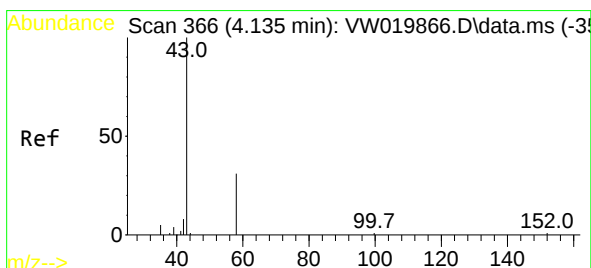
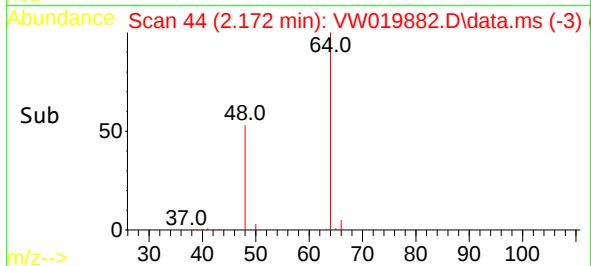
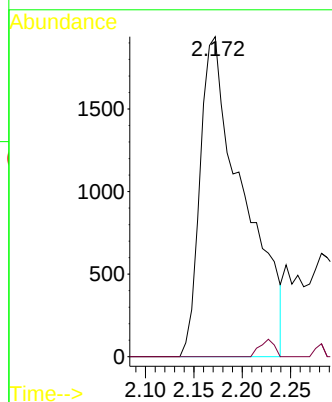
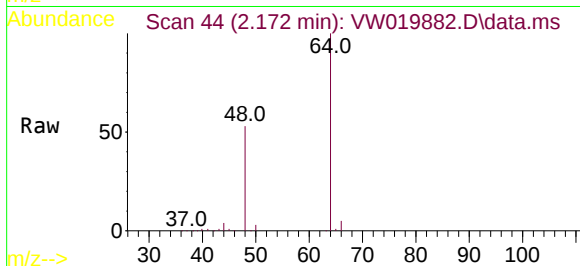




#3
Chloromethane
Concen: 0.788 ug/L
RT: 2.172 min Scan# 44
Delta R.T. -0.049 min
Lab File: VW019882.D
Acq: 24 Aug 2021 18:05

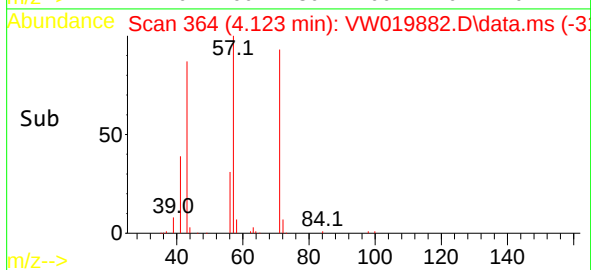
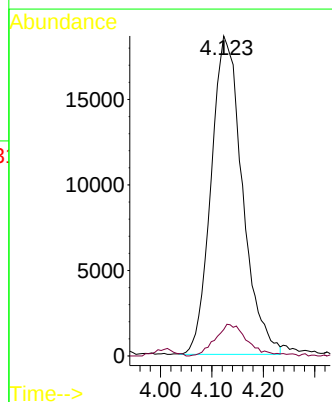
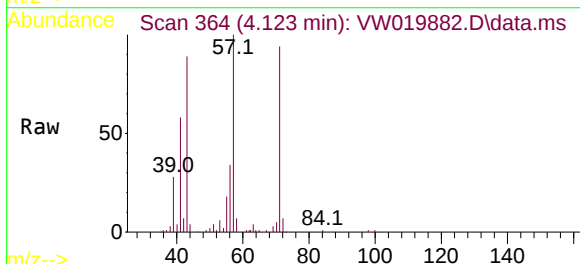
Instrument :
MSVOA_W
ClientSampled :
EW7B9

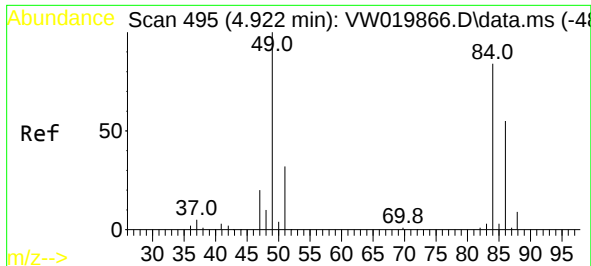
Tgt Ion: 50 Resp: 6015
Ion Ratio Lower Upper
50 100
52 0.0 22.5 41.9#



#13
Acetone
Concen: 46.808 ug/L
RT: 4.123 min Scan# 364
Delta R.T. -0.012 min
Lab File: VW019882.D
Acq: 24 Aug 2021 18:05

Tgt Ion: 43 Resp: 78672
Ion Ratio Lower Upper
43 100
58 9.6 0.0 53.8

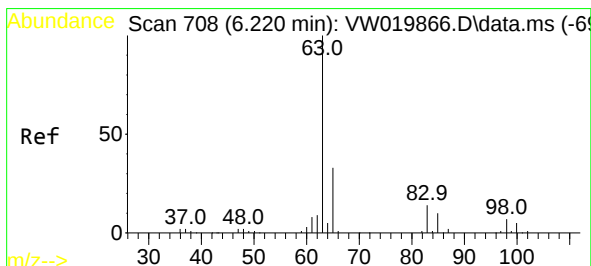
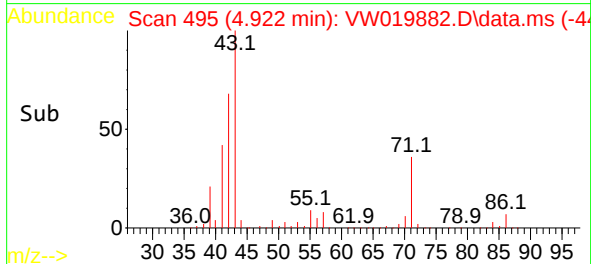
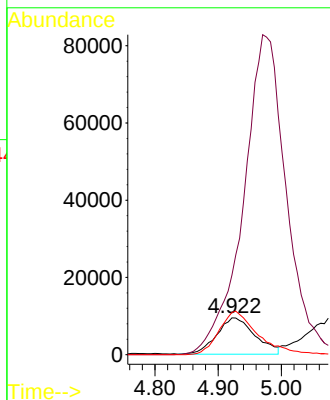
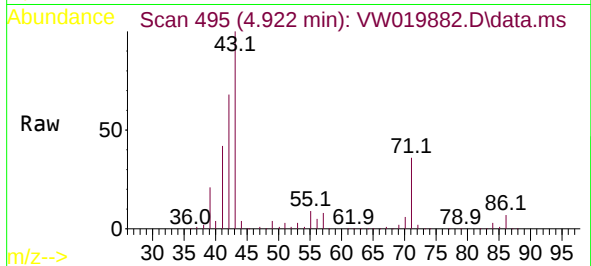




#16
Methylene chloride
Concen: 3.691 ug/L
RT: 4.922 min Scan# 495
Delta R.T. 0.000 min
Lab File: VW019882.D
Acq: 24 Aug 2021 18:05

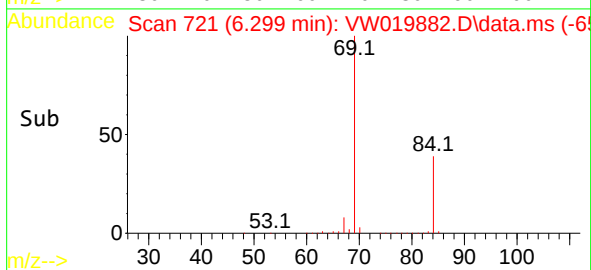
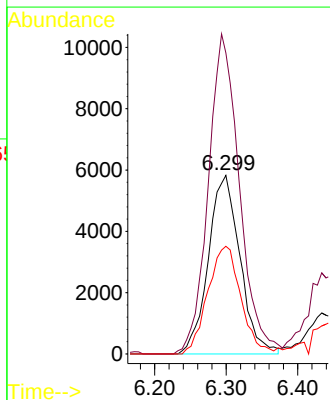
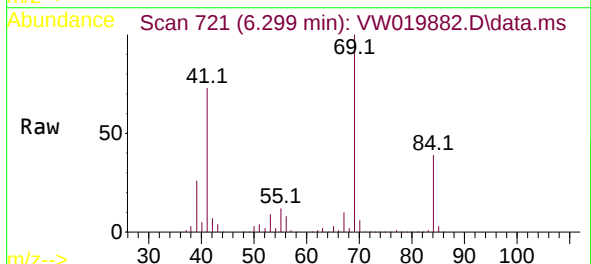
Instrument :
MSVOA_W
ClientSampled :
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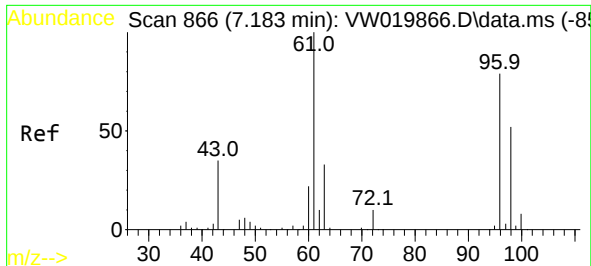
Tgt Ion: 84 Resp: 39626
Ion Ratio Lower Upper
84 100
86 216.2 45.3 84.1#
49 114.8 86.6 160.8



#19
1,1-Dichloroethane
Concen: 1.136 ug/L
RT: 6.299 min Scan# 721
Delta R.T. 0.079 min
Lab File: VW019882.D
Acq: 24 Aug 2021 18:05

Tgt Ion: 63 Resp: 17926
Ion Ratio Lower Upper
63 100
65 168.6 22.9 42.5#
83 60.3 10.2 19.0#

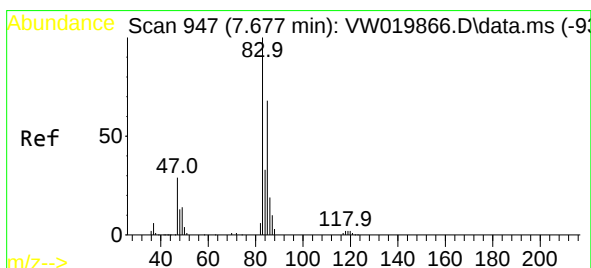
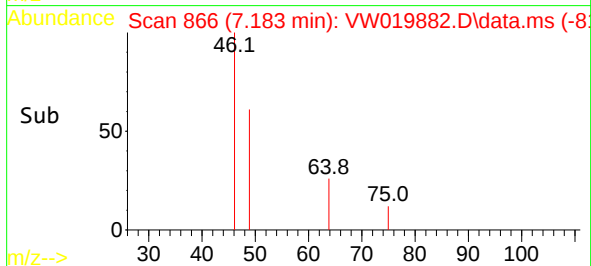
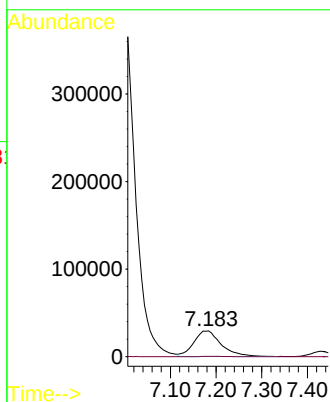
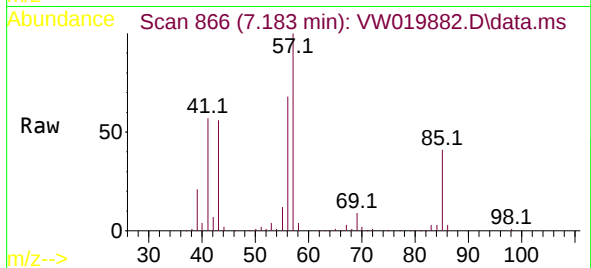




#22
2-Butanone
Concen: 55.557 ug/L
RT: 7.183 min Scan# 866
Delta R.T. 0.000 min
Lab File: VW019882.D
Acq: 24 Aug 2021 18:05

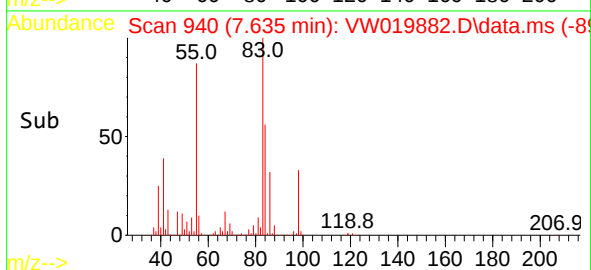
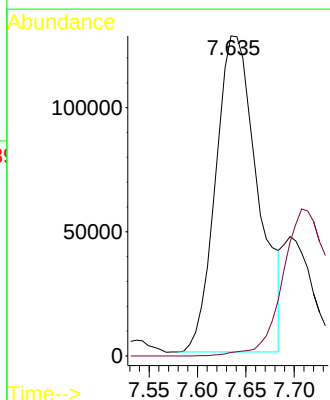
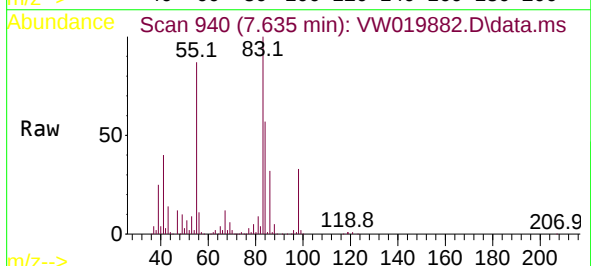
Instrument :
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ClientSampled :
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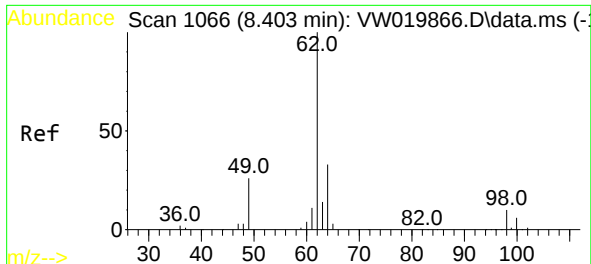
Tgt Ion: 43 Resp: 121001
Ion Ratio Lower Upper
43 100
72 0.8 14.9 44.7#



#25
Chloroform
Concen: 23.643 ug/L
RT: 7.635 min Scan# 940
Delta R.T. -0.043 min
Lab File: VW019882.D
Acq: 24 Aug 2021 18:05

Tgt Ion: 83 Resp: 385848
Ion Ratio Lower Upper
83 100
85 1.1 44.6 82.8#

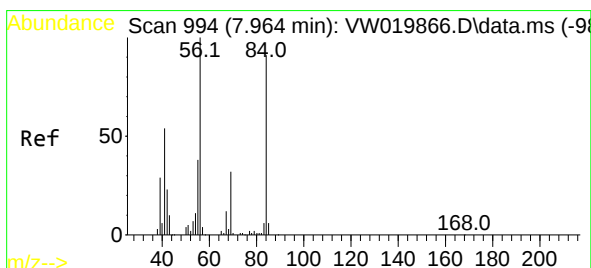
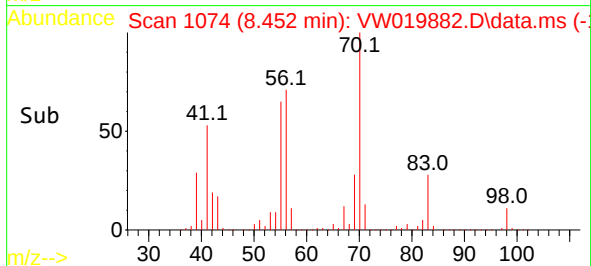
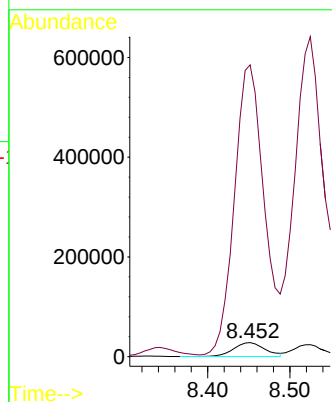
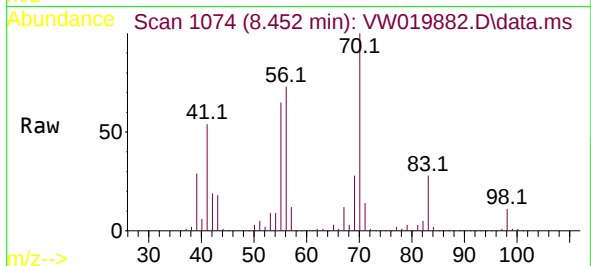




#27
1,2-Dichloroethane
Concen: 6.977 ug/L
RT: 8.452 min Scan# 1074
Delta R.T. 0.049 min
Lab File: VW019882.D
Acq: 24 Aug 2021 18:05

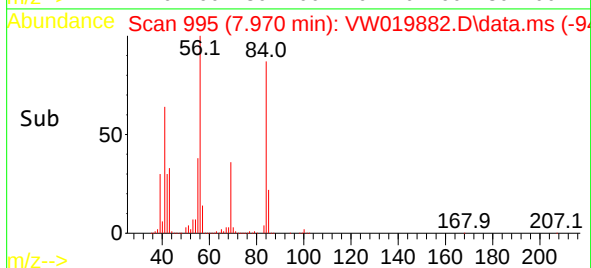
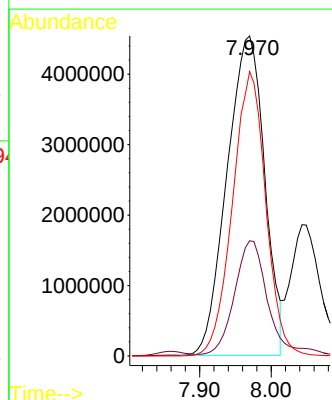
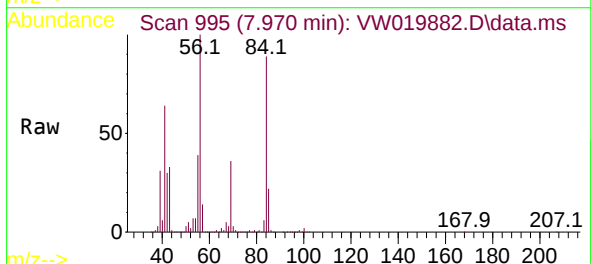
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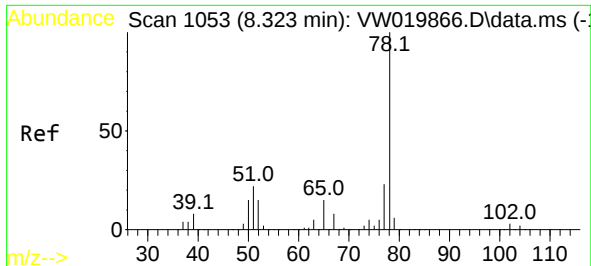
Tgt Ion: 62 Resp: 74282
Ion Ratio Lower Upper
62 100
98 2064.9 6.9 10.3#



#29
Cyclohexane
Concen: 1183.661 ug/L
RT: 7.970 min Scan# 995
Delta R.T. 0.006 min
Lab File: VW019882.D
Acq: 24 Aug 2021 18:05

Tgt Ion: 56 Resp:16574767
Ion Ratio Lower Upper
56 100
69 32.2 24.5 36.7
84 78.7 75.0 112.4

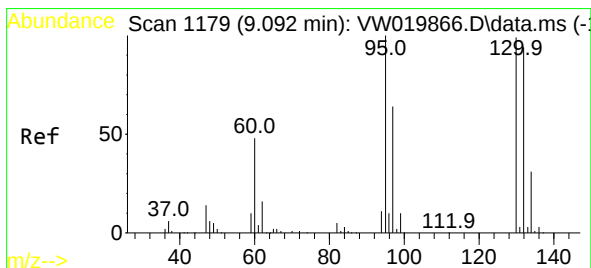
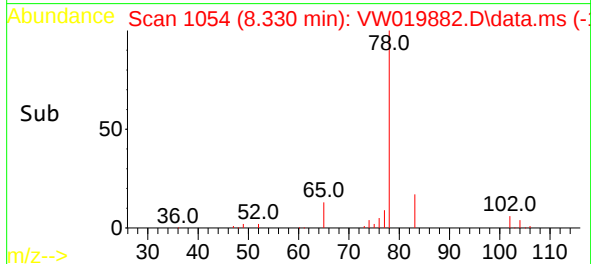
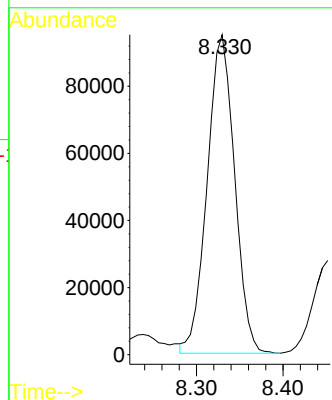
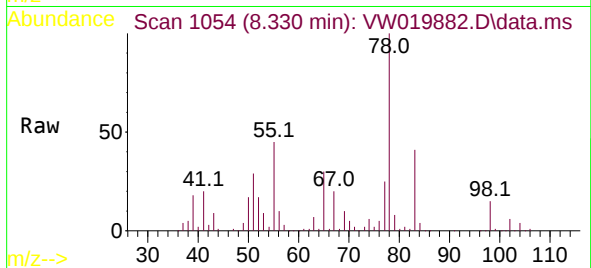




#33
Benzene
Concen: 5.711 ug/L
RT: 8.330 min Scan# 1054
Delta R.T. 0.006 min
Lab File: VW019882.D
Acq: 24 Aug 2021 18:05

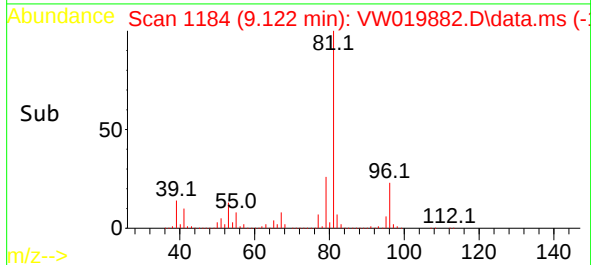
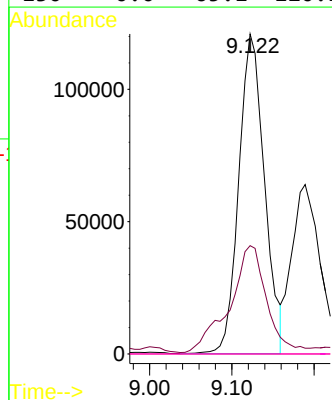
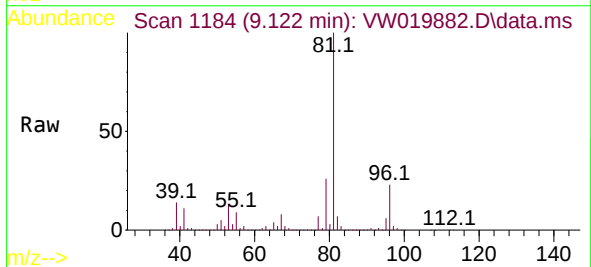
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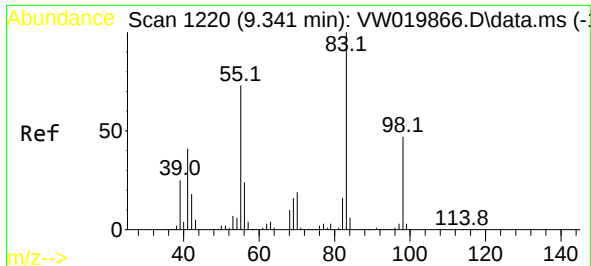
Tgt Ion: 78 Resp: 209010



#34
Trichloroethene
Concen: 27.563 ug/L
RT: 9.122 min Scan# 1184
Delta R.T. 0.031 min
Lab File: VW019882.D
Acq: 24 Aug 2021 18:05

Tgt Ion: 95 Resp: 262229
Ion Ratio Lower Upper
95 100
97 33.8 47.3 87.8#
132 0.0 71.0 131.8#
130 0.0 65.1 120.9#

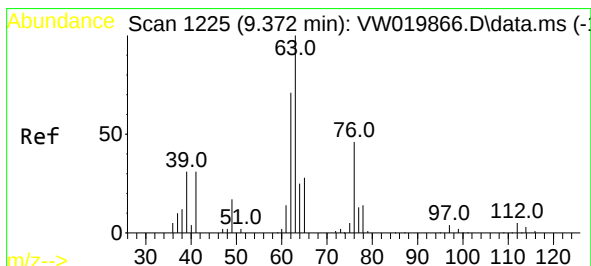
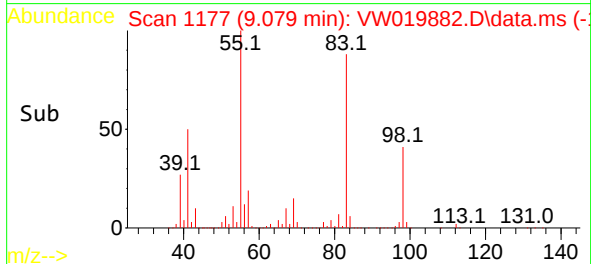
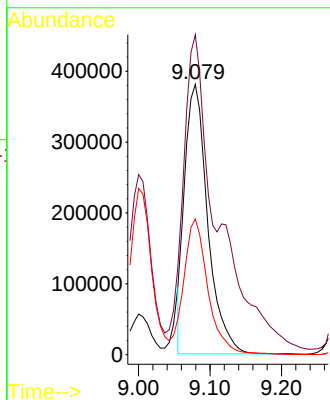
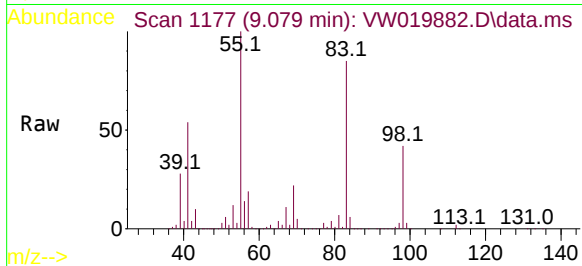




#35
Methylcyclohexane
Concen: 51.940 ug/L
RT: 9.079 min Scan# 1177
Delta R.T. -0.262 min
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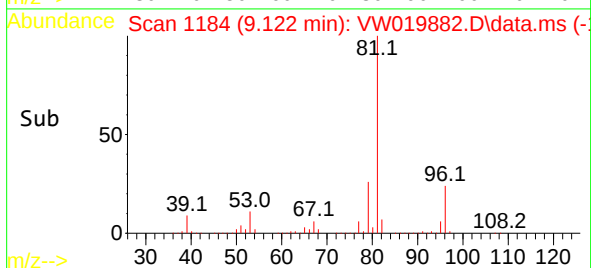
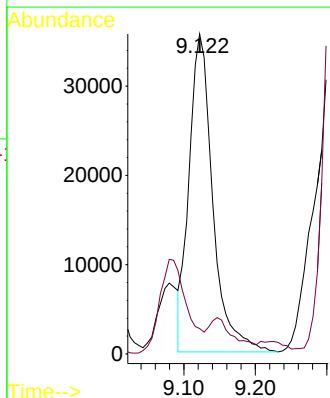
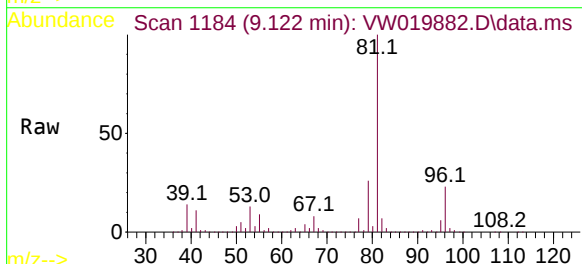
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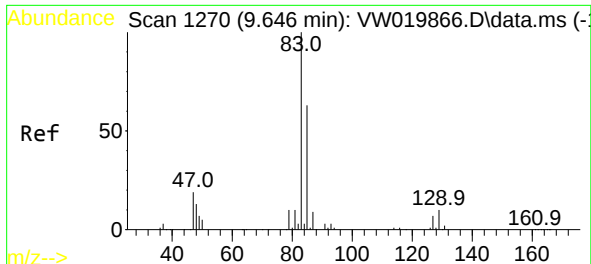
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Ion Ratio Lower Upper
83 100
55 69.3 58.9 88.3
98 50.2 40.1 60.1



#37
1,2-Dichloropropane
Concen: 9.064 ug/L
RT: 9.122 min Scan# 1184
Delta R.T. -0.250 min
Lab File: VW019882.D
Acq: 24 Aug 2021 18:05

Tgt Ion: 63 Resp: 82150
Ion Ratio Lower Upper
63 100
112 4.9 3.9 5.9

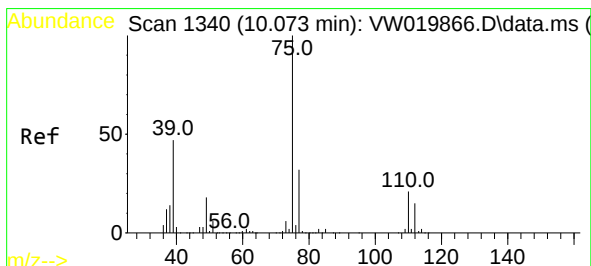
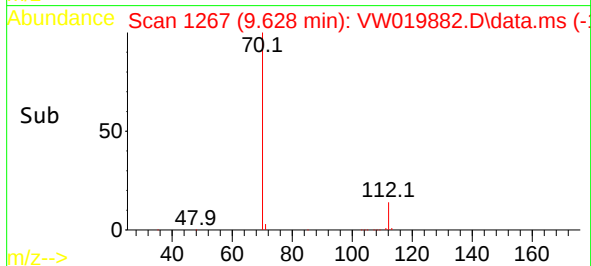
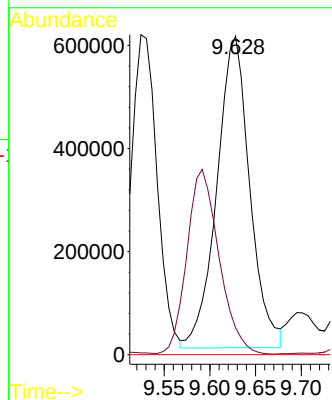
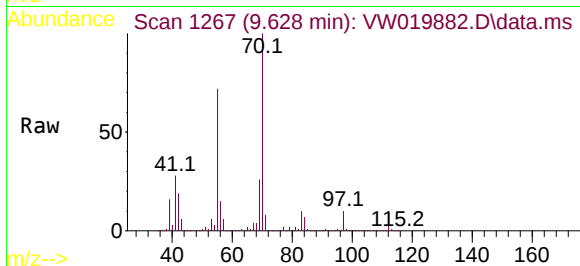




#38
Bromodichloromethane
Concen: 128.808 ug/L
RT: 9.628 min Scan# 1267
Delta R.T. -0.018 min
Lab File: VW019882.D
Acq: 24 Aug 2021 18:05

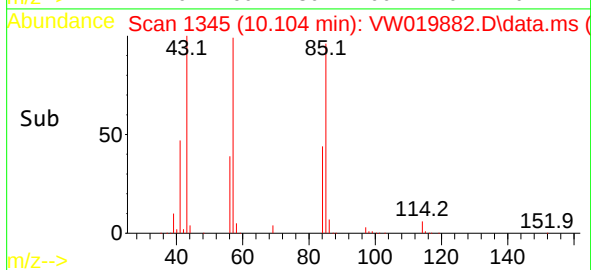
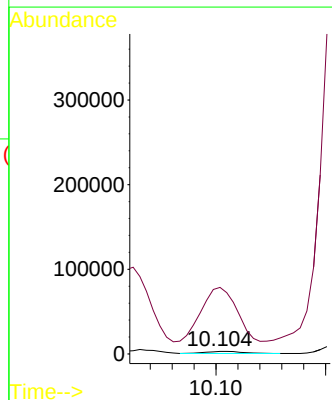
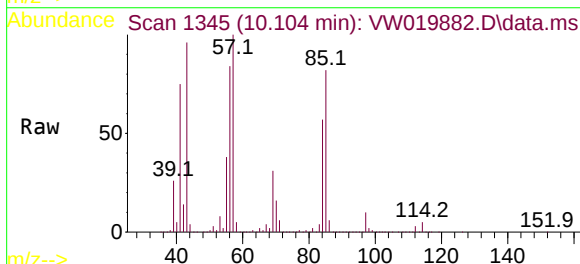
Instrument :
MSVOA_W
ClientSampled :
EW7B9

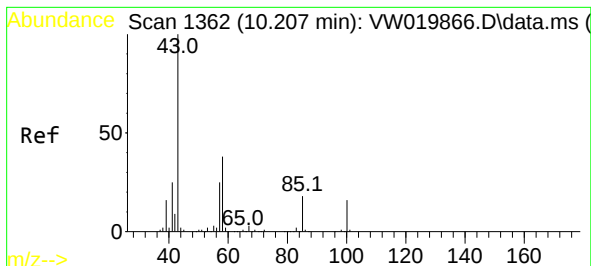
Tgt Ion: 83 Resp: 1512417
Ion Ratio Lower Upper
83 100
85 8.4 42.3 78.5#
127 0.0 6.6 9.8#



#39
cis-1,3-Dichloropropene
Concen: 0.446 ug/L
RT: 10.104 min Scan# 1345
Delta R.T. 0.031 min
Lab File: VW019882.D
Acq: 24 Aug 2021 18:05

Tgt Ion: 75 Resp: 5949
Ion Ratio Lower Upper
75 100
77 2596.7 22.6 42.0#

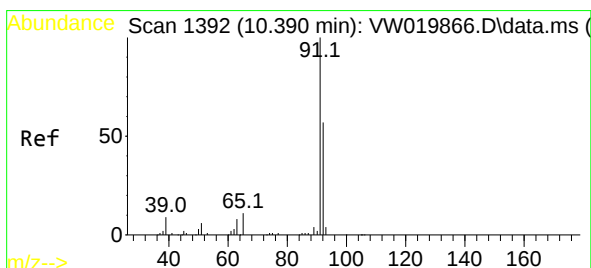
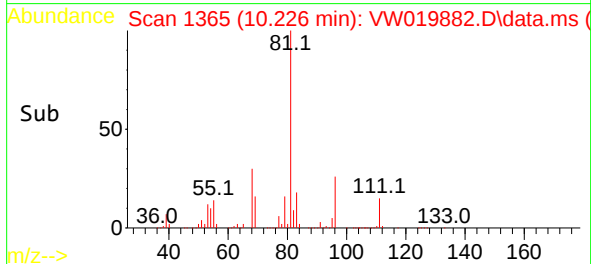
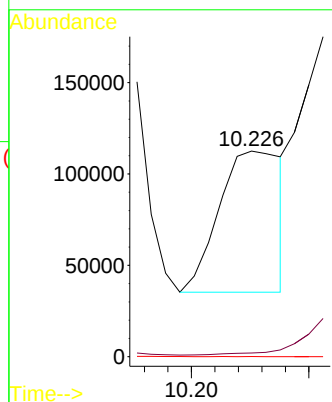
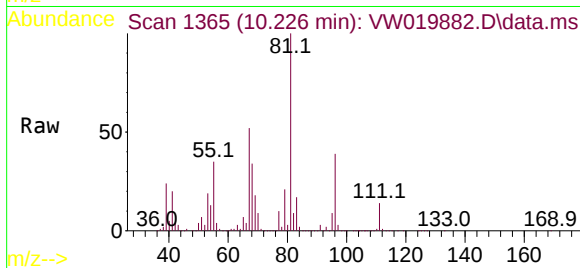




#40
4-Methyl-2-pentanone
Concen: 29.626 ug/L
RT: 10.226 min Scan# 1365
Delta R.T. 0.018 min
Lab File: VW019882.D
Acq: 24 Aug 2021 18:05

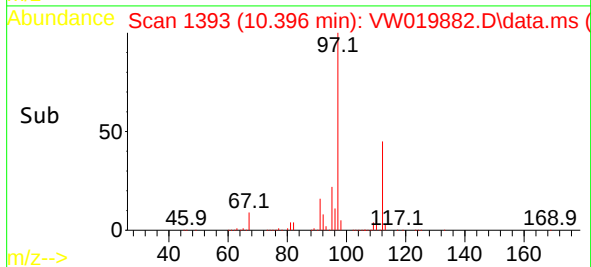
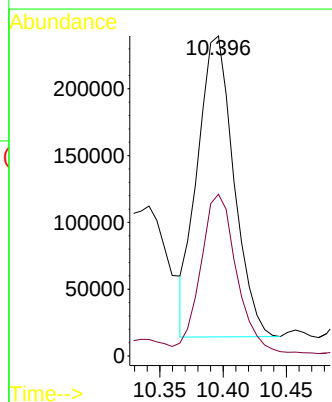
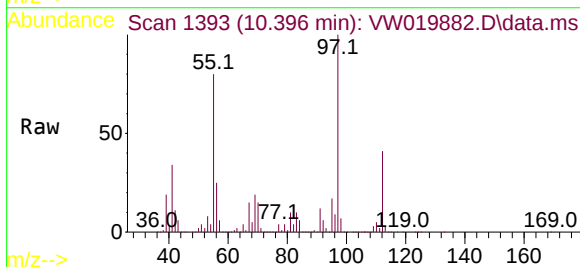
Instrument :
MSVOA_W
ClientSampled :
EW7B9

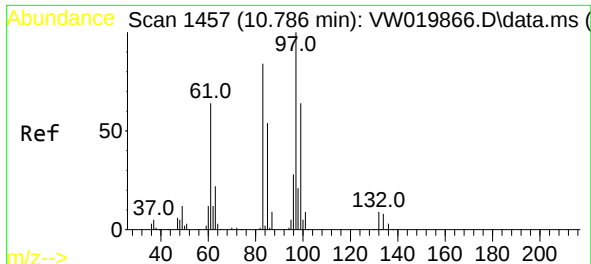
Tgt Ion: 43 Resp: 142784
Ion Ratio Lower Upper
43 100
58 0.0 31.0 46.4#
100 0.0 13.0 19.6#



#42
Toluene
Concen: 11.607 ug/L
RT: 10.396 min Scan# 1393
Delta R.T. 0.006 min
Lab File: VW019882.D
Acq: 24 Aug 2021 18:05

Tgt Ion: 91 Resp: 449979
Ion Ratio Lower Upper
91 100
92 50.6 39.5 73.3



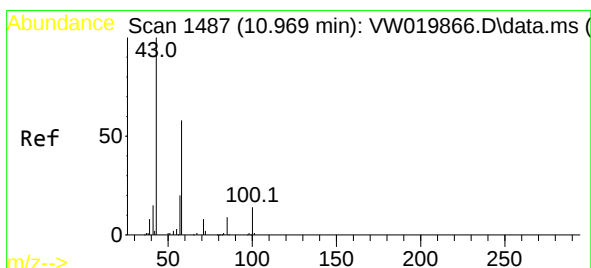
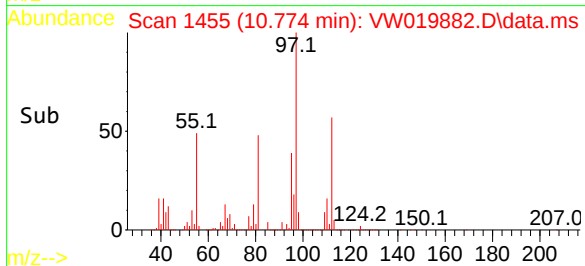
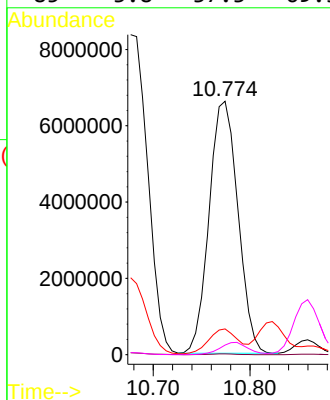
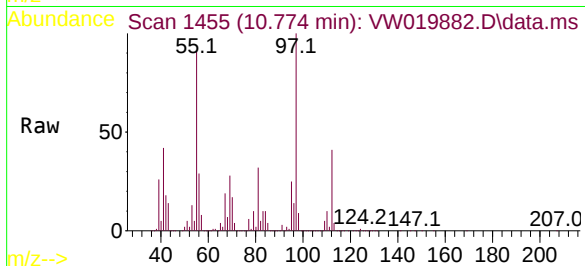


#45
1,1,2-Trichloroethane
Concen: 2080.953 ug/L
RT: 10.774 min Scan# 1455
Delta R.T. -0.012 min
Lab File: VW019882.D
Acq: 24 Aug 2021 18:05

Instrument :
MSVOA_W
ClientSampled :
EW7B9

Tgt Ion: 97 Resp:13654773

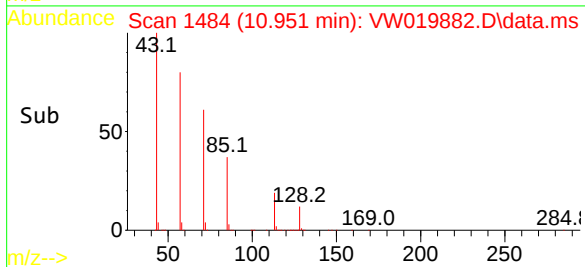
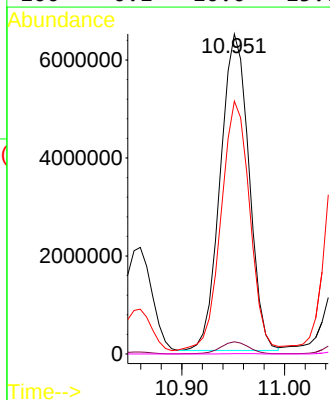
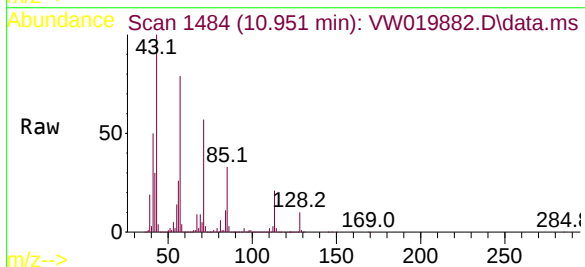
Ion	Ratio	Lower	Upper
97	100		
99	0.3	45.1	83.7#
83	10.2	58.1	107.9#
85	3.8	37.3	69.3#

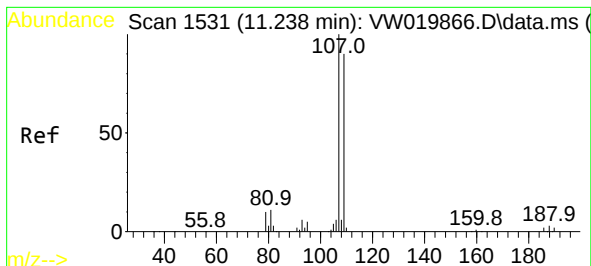


#48
2-Hexanone
Concen: 3727.034 ug/L
RT: 10.951 min Scan# 1484
Delta R.T. -0.018 min
Lab File: VW019882.D
Acq: 24 Aug 2021 18:05

Tgt Ion: 43 Resp:12504118

Ion	Ratio	Lower	Upper
43	100		
58	3.7	42.7	64.1#
57	79.0	15.8	23.8#
100	0.1	10.0	15.0#

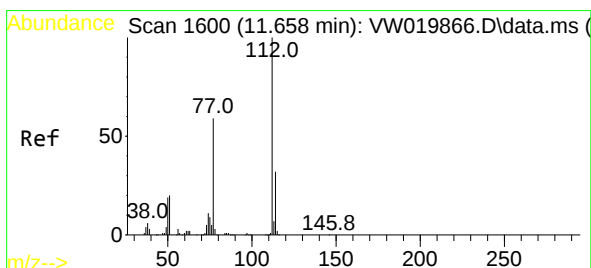
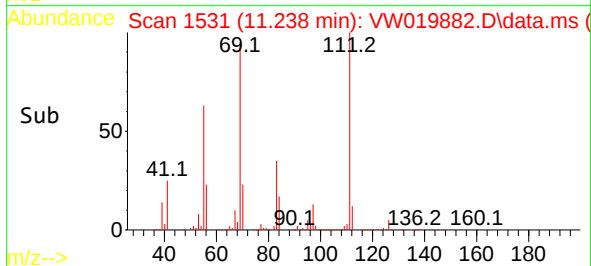
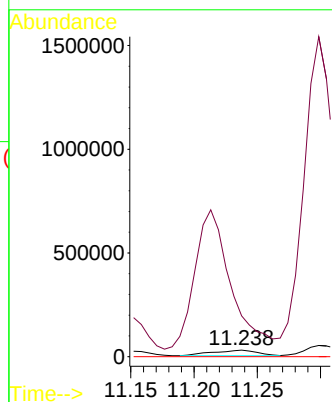
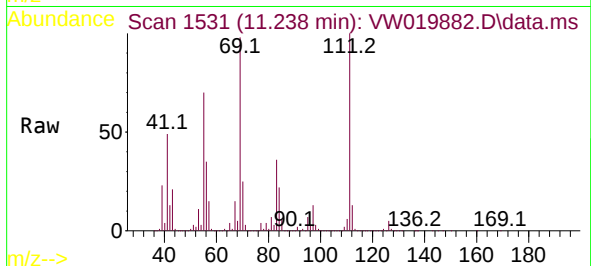




#50
1,2-Dibromoethane
Concen: 11.001 ug/L
RT: 11.238 min Scan# 1531
Delta R.T. 0.000 min
Lab File: VW019882.D
Acq: 24 Aug 2021 18:05

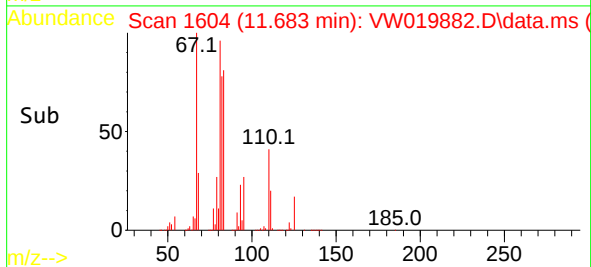
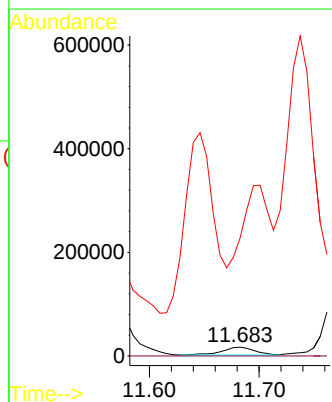
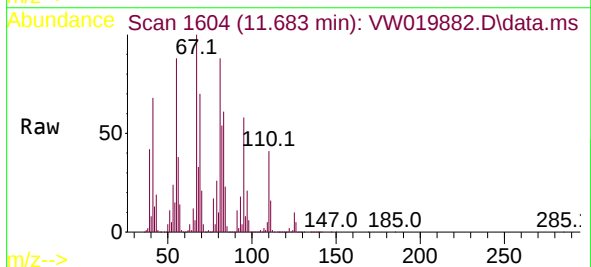
Instrument :
MSVOA_W
ClientSampleId :
EW7B9

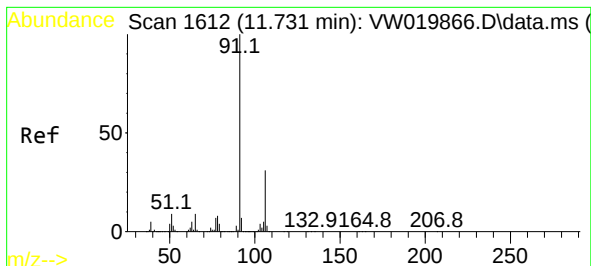
Tgt Ion:107 Resp: 67801
Ion Ratio Lower Upper
107 100
109 613.5 65.4 121.4#
188 0.0 2.6 4.0#



#51
Chlorobenzene
Concen: 1.270 ug/L
RT: 11.683 min Scan# 1604
Delta R.T. 0.024 min
Lab File: VW019882.D
Acq: 24 Aug 2021 18:05

Tgt Ion:112 Resp: 31266
Ion Ratio Lower Upper
112 100
114 0.0 23.4 43.6#
77 1339.5 47.6 71.4#

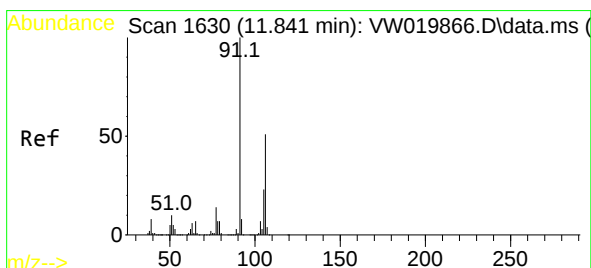
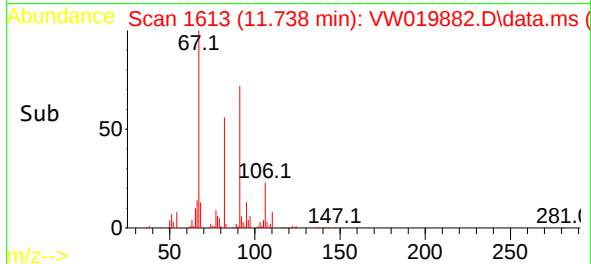
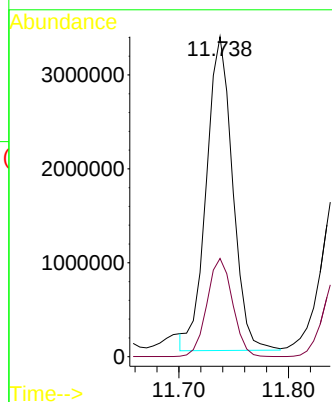
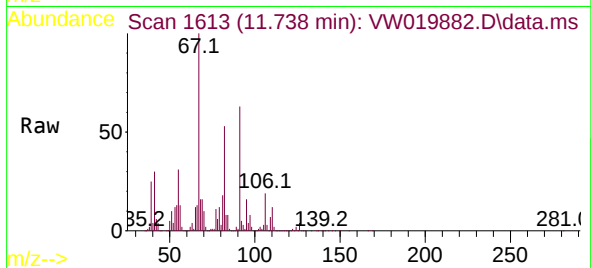




#52
Ethylbenzene
Concen: 133.510 ug/L
RT: 11.738 min Scan# 1613
Delta R.T. 0.006 min
Lab File: VW019882.D
Acq: 24 Aug 2021 18:05

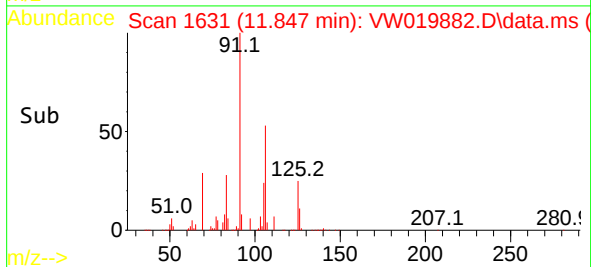
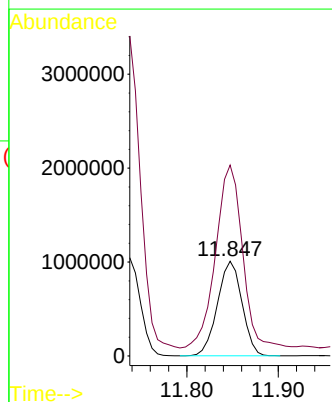
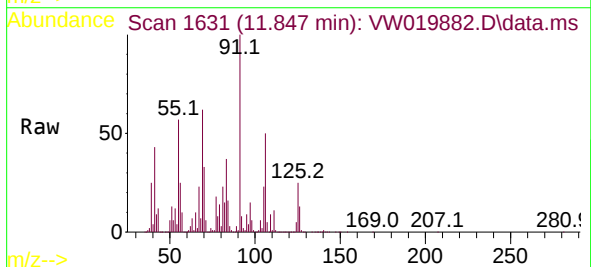
Instrument :
MSVOA_W
ClientSampleId :
EW7B9

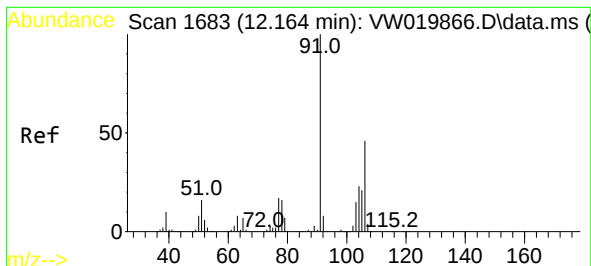
Tgt Ion: 91 Resp: 5572299
Ion Ratio Lower Upper
91 100
106 30.7 22.5 41.7



#53
m,p-Xylene
Concen: 117.131 ug/L
RT: 11.847 min Scan# 1631
Delta R.T. 0.006 min
Lab File: VW019882.D
Acq: 24 Aug 2021 18:05

Tgt Ion:106 Resp: 1877334
Ion Ratio Lower Upper
106 100
91 201.3 141.3 262.3

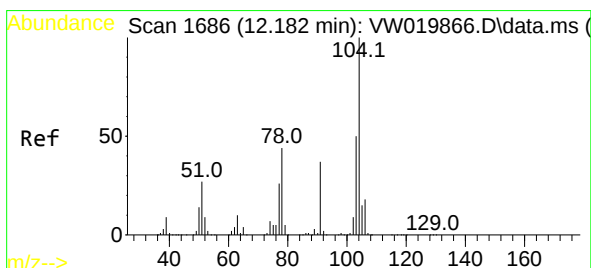
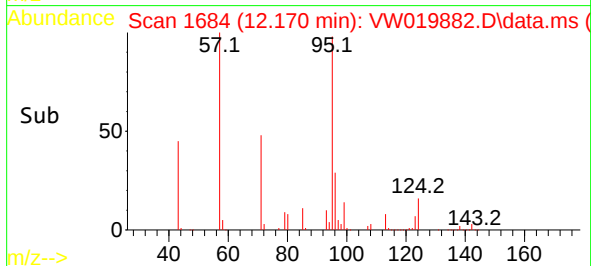
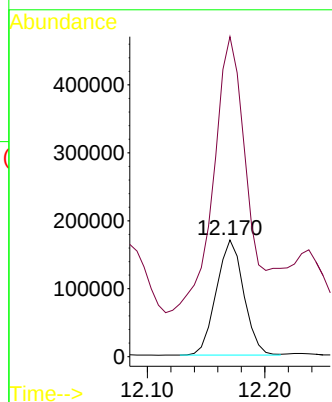
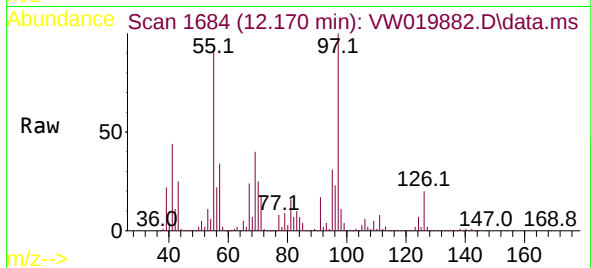




#54
o-Xylene
Concen: 18.103 ug/L
RT: 12.170 min Scan# 1684
Delta R.T. 0.006 min
Lab File: VW019882.D
Acq: 24 Aug 2021 18:05

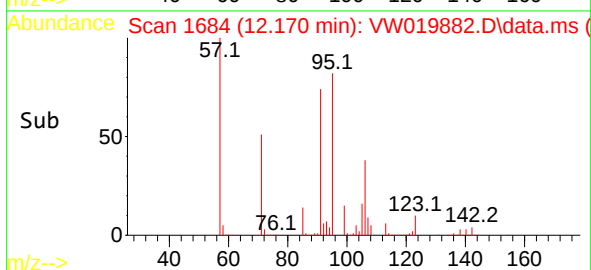
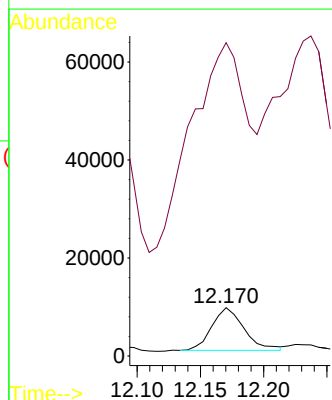
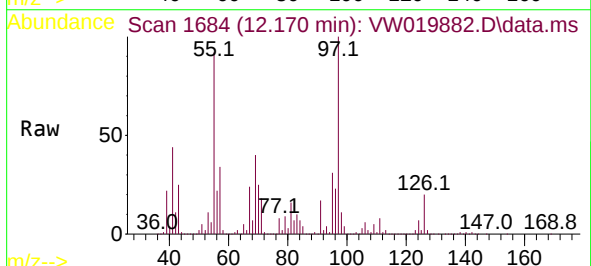
Instrument :
MSVOA_W
ClientSampled :
EW7B9

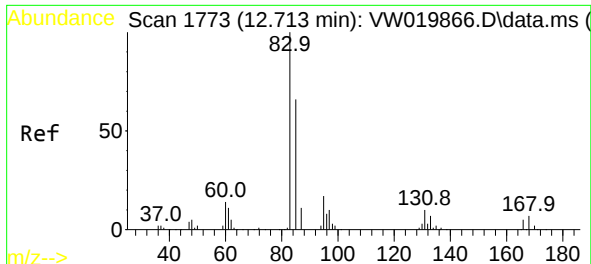
Tgt Ion:106 Resp: 274459
Ion Ratio Lower Upper
106 100
91 274.2 150.0 278.6



#55
Styrene
Concen: 0.596 ug/L
RT: 12.170 min Scan# 1684
Delta R.T. -0.012 min
Lab File: VW019882.D
Acq: 24 Aug 2021 18:05

Tgt Ion:104 Resp: 15432
Ion Ratio Lower Upper
104 100
78 649.3 32.5 60.3#

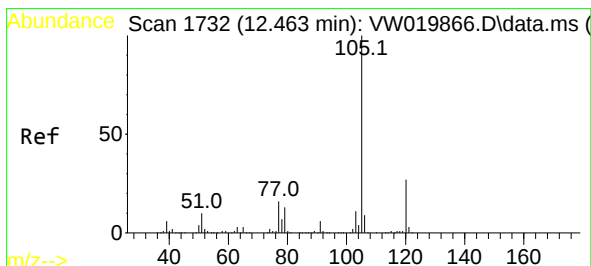
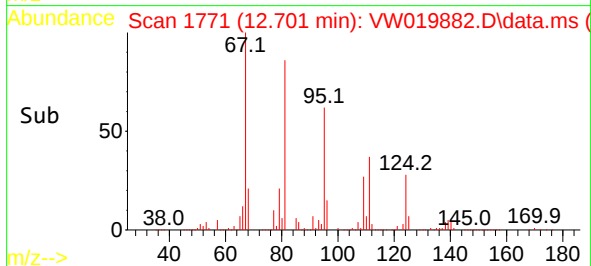
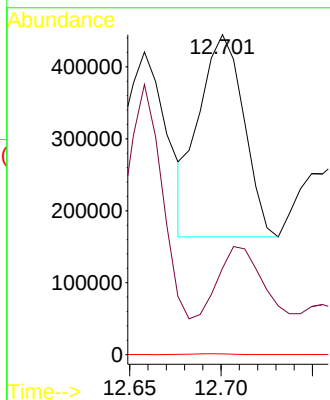
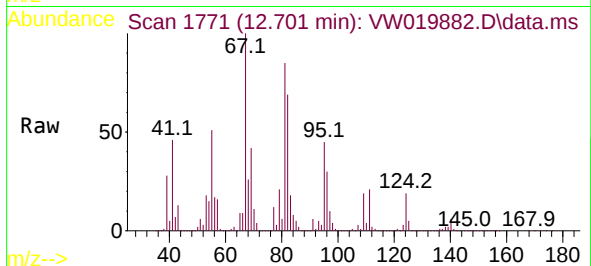




#57
1,1,2,2-Tetrachloroethane
Concen: 59.630 ug/L
RT: 12.701 min Scan# 1771
Delta R.T. -0.012 min
Lab File: VW019882.D
Acq: 24 Aug 2021 18:05

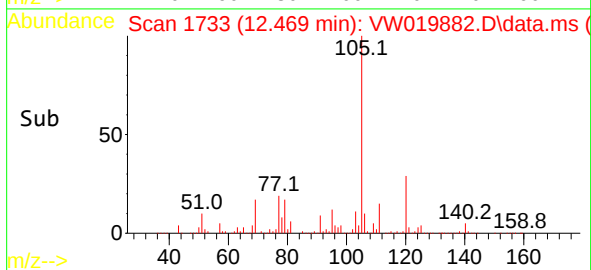
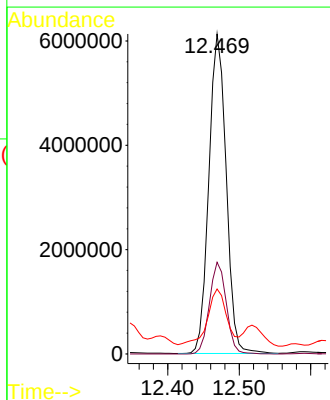
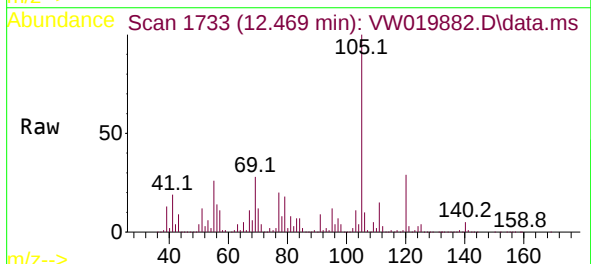
Instrument :
MSVOA_W
ClientSampled :
EW7B9

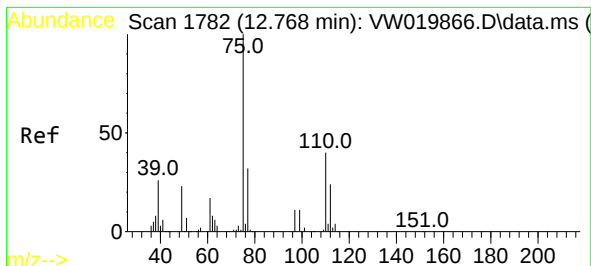
Tgt Ion: 83 Resp: 479830
Ion Ratio Lower Upper
83 100
85 27.0 44.4 82.4#
131 0.2 8.2 12.4#



#60
Isopropylbenzene
Concen: 182.137 ug/L
RT: 12.469 min Scan# 1733
Delta R.T. 0.006 min
Lab File: VW019882.D
Acq: 24 Aug 2021 18:05

Tgt Ion:105 Resp:10312953
Ion Ratio Lower Upper
105 100
120 27.9 21.1 31.7
77 18.9 13.2 19.8

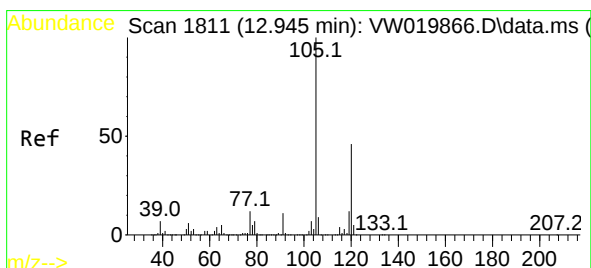
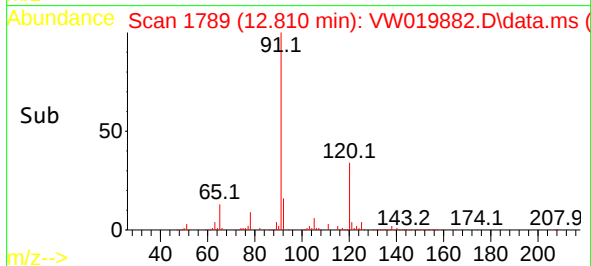
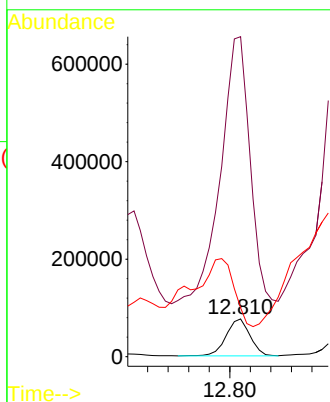
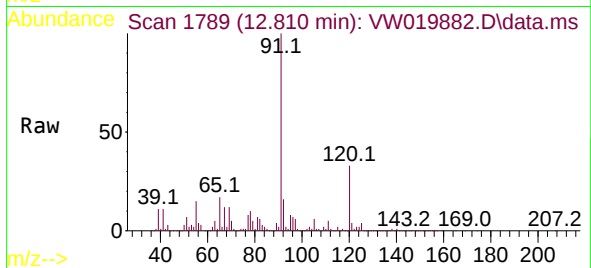




#61
1,2,3-Trichloropropane
Concen: 14.778 ug/L
RT: 12.810 min Scan# 1789
Delta R.T. 0.043 min
Lab File: VW019882.D
Acq: 24 Aug 2021 18:05

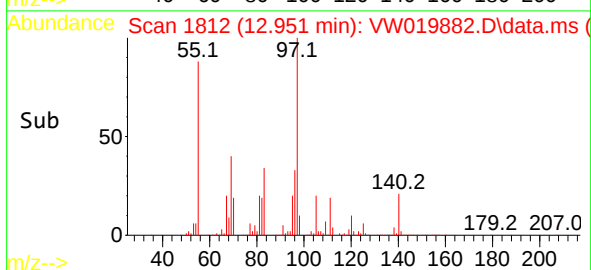
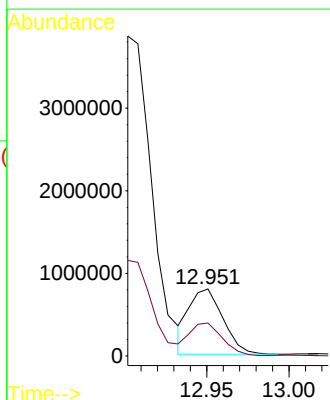
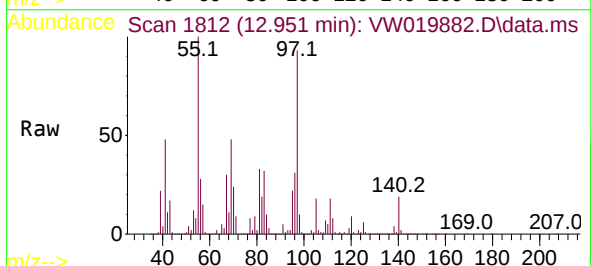
Instrument :
MSVOA_W
ClientSampleId :
EW7B9

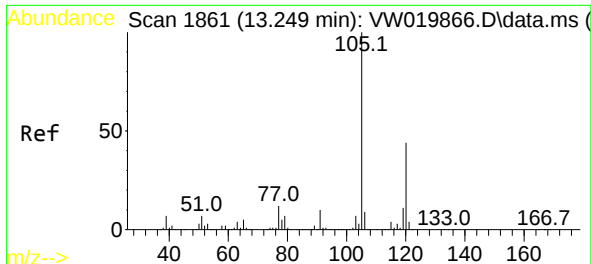
Tgt Ion: 75 Resp: 121083
Ion Ratio Lower Upper
75 100
77 863.3 25.3 37.9#
110 215.7 32.6 48.8#



#62
1,3,5-Trimethylbenzene
Concen: 25.166 ug/L
RT: 12.951 min Scan# 1812
Delta R.T. 0.006 min
Lab File: VW019882.D
Acq: 24 Aug 2021 18:05

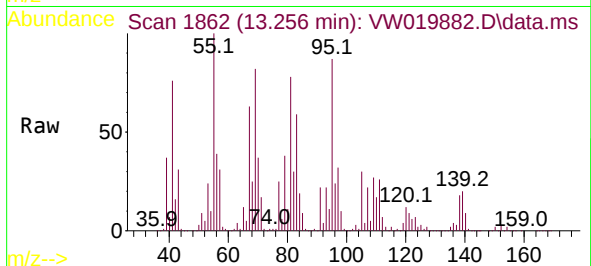
Tgt Ion:105 Resp: 1137325
Ion Ratio Lower Upper
105 100
120 48.1 39.0 58.6



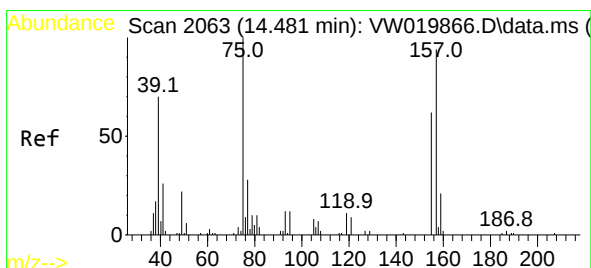
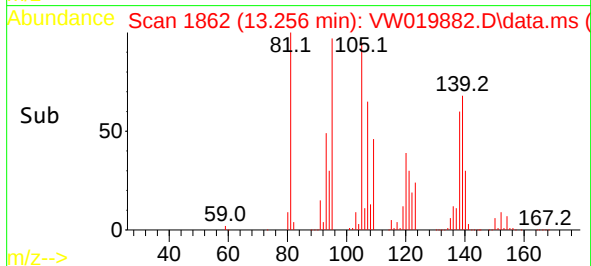
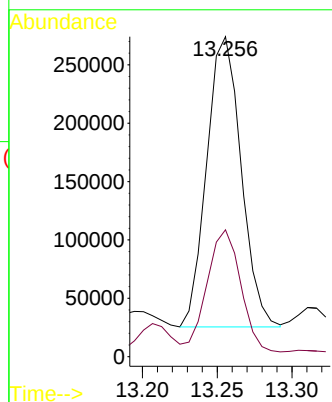


#63
1,2,4-Trimethylbenzene
Concen: 8.698 ug/L
RT: 13.256 min Scan# 1862
Delta R.T. 0.006 min
Lab File: VW019882.D
Acq: 24 Aug 2021 18:05

Instrument :
MSVOA_W
ClientSampled :
EW7B9

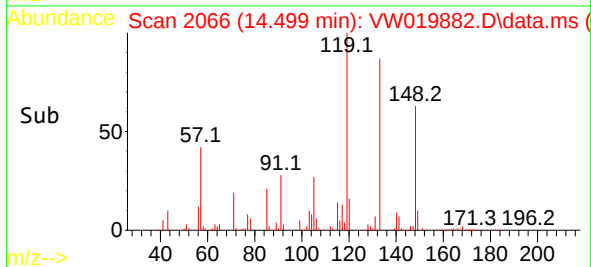
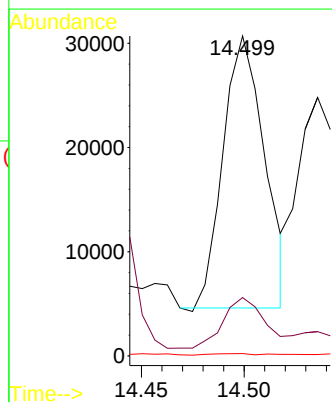
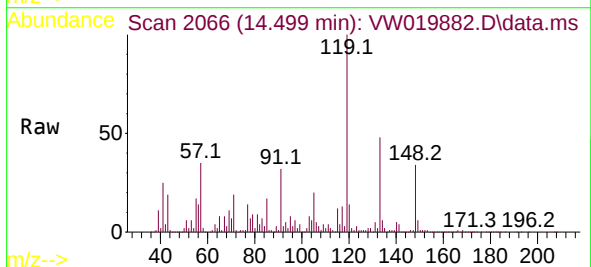


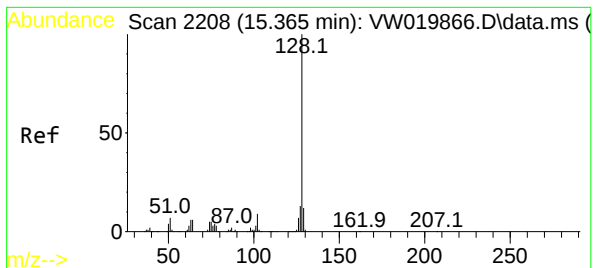
Tgt Ion:105 Resp: 398429
Ion Ratio Lower Upper
105 100
120 40.9 35.6 53.4



#68
1,2-Dibromo-3-chloropropane
Concen: 20.501 ug/L
RT: 14.499 min Scan# 2066
Delta R.T. 0.018 min
Lab File: VW019882.D
Acq: 24 Aug 2021 18:05

Tgt Ion: 75 Resp: 36616
Ion Ratio Lower Upper
75 100
155 18.3 59.4 89.0#
157 0.8 72.2 108.2#





#71
Naphthalene
Concen: 196.179 ug/L
RT: 15.365 min Scan# 2208
Delta R.T. 0.000 min
Lab File: VW019882.D
Acq: 24 Aug 2021 18:05

Instrument :
MSVOA_W
ClientSampleId :
EW7B9

Tgt Ion:128 Resp: 5229570
Ion Ratio Lower Upper
128 100
127 13.5 10.6 15.8
129 11.0 9.0 13.6

