

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW031921\
 Data File : VW018401.D
 Acq On : 19 Mar 2021 21:16
 Operator : SY/VA
 Sample : M1698-13
 Misc : 5.42G/10ML/MSVOA_W/SOIL
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 BG4L1

Quant Time: Mar 20 03:59:41 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SOM2WLM031921S.M
 Quant Title : VOC Analysis
 QLast Update : Sat Mar 20 03:58:53 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.842	114	200208	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.634	117	88335	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.560	152	14914	25.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.361	65	128528	46.13	ug/L	0.00
Spiked Amount 25.000	Range 30 - 150		Recovery = 184.52%#			
7) Chloroethane-d5	2.891	69	119386	48.95	ug/L	0.00
Spiked Amount 25.000	Range 30 - 150		Recovery = 195.80%#			
10) 1,1-Dichloroethene-d2	4.025	63	133291	27.71	ug/L	0.00
Spiked Amount 25.000	Range 45 - 110		Recovery = 110.84%#			
20) 2-Butanone-d5	7.074	46	83024	133.85	ug/L	0.00
Spiked Amount 50.000	Range 20 - 135		Recovery = 267.70%#			
24) Chloroform-d	7.647	84	176602	34.63	ug/L	0.00
Spiked Amount 25.000	Range 40 - 150		Recovery = 138.52%			
26) 1,2-Dichloroethane-d4	8.305	65	127688	42.89	ug/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 171.56%#			
29) Benzene-d6	8.275	84	299257	63.73	ug/L	0.00
Spiked Amount 25.000	Range 20 - 135		Recovery = 254.92%#			
33) 1,2-Dichloropropane-d6	9.274	67	89844	66.33	ug/L	0.00
Spiked Amount 25.000	Range 70 - 120		Recovery = 265.32%#			
37) Toluene-d8	10.323	98	171376	37.90	ug/L	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 151.60%#			
38) trans-1,3-Dichloroprop...	10.579	79	29210	41.81	ug/L	0.00
Spiked Amount 25.000	Range 30 - 135		Recovery = 167.24%#			
39) 2-Hexanone-d5	10.927	63	43778	165.14	ug/L	0.00
Spiked Amount 50.000	Range 20 - 135		Recovery = 330.28%#			
48) 1,1,2,2-Tetrachloroeth...	12.695	84	46101	38.05	ug/L	0.00
Spiked Amount 25.000	Range 45 - 120		Recovery = 152.20%#			
61) 1,2-Dichlorobenzene-d4	13.853	152	12739	24.03	ug/L	0.00
Spiked Amount 25.000	Range 75 - 120		Recovery = 96.12%			
Target Compounds						Qvalue
5) Vinyl chloride	2.367	62	4705	1.24	ug/L #	1
11) 1,1,2-Trichloro-1,2,2-...	4.025	101	920	0.37	ug/L #	20
12) 1,1-Dichloroethene	4.044	96	20255	8.06	ug/L #	1
13) Acetone	4.123	43	65899	147.89	ug/L	98
14) Carbon disulfide	4.391	76	5690	0.75	ug/L	99
16) Methylene chloride	4.915	84	26111	7.95	ug/L	97
17) Methyl tert-butyl Ether	5.428	73	120308	32.77	ug/L	97
18) trans-1,2-Dichloroethene	5.434	96	28932	10.43	ug/L	87
21) 2-Butanone	7.165	43	21662	30.60	ug/L	93
22) cis-1,2-Dichloroethene	7.171	96	177508	60.83	ug/L	98
34) Benzene	8.323	78	160328	31.34	ug/L	100
35) Trichloroethene	9.091	95	1605350	1135.83	ug/L	99
40) 1,2-Dichloropropane	9.366	63	502	0.40	ug/L #	84
42) cis-1,3-Dichloropropene	10.030	75	2686	1.27	ug/L #	67
44) Toluene	10.384	91	2289	0.39	ug/L	94
47) Tetrachloroethene	10.866	164	5012006	4670.18	ug/L	97
49) 2-Hexanone	10.981	43	232	0.44	ug/L #	46
63) 1,3-Dichlorobenzene	13.499	146	389	0.41	ug/L #	85
64) 1,4-Dichlorobenzene	13.572	146	289	0.30	ug/L #	18
65) 1,2-Dichlorobenzene	13.871	146	452	0.53	ug/L #	71

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 Response via : Initial Calibration

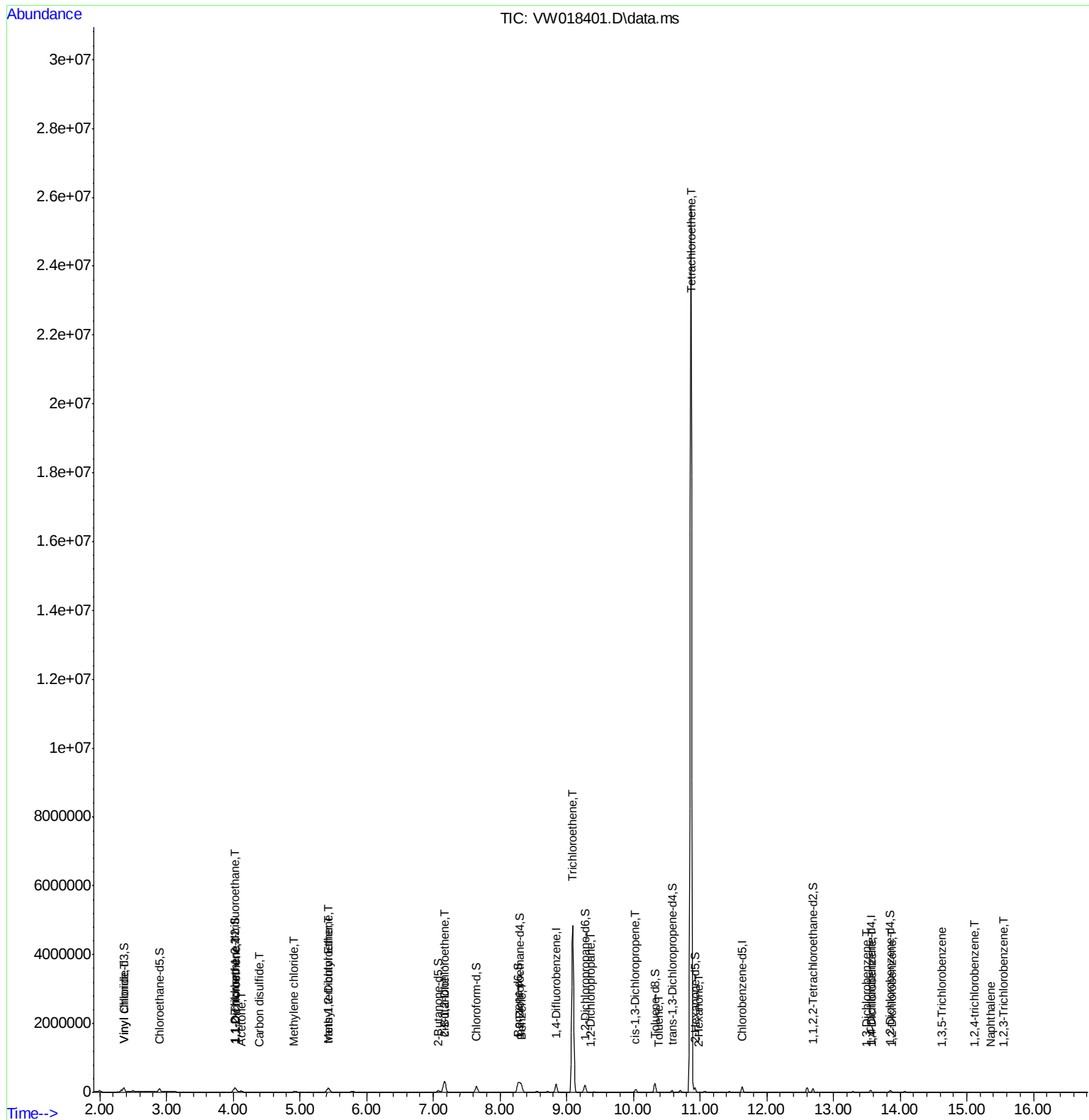
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 1,3,5-Trichlorobenzene	14.621	180	463	0.67	ug/L #	54
68) 1,2,4-trichlorobenzene	15.121	180	311	0.53	ug/L #	23
69) Naphthalene	15.365	128	1482	1.22	ug/L #	79
70) 1,2,3-Trichlorobenzene	15.554	180	539	1.05	ug/L	93

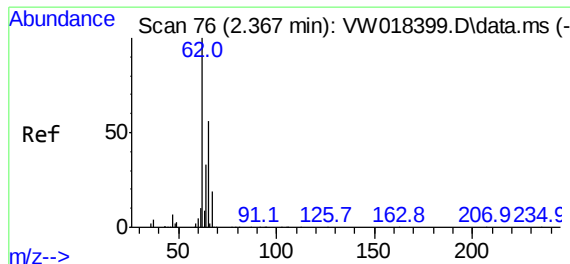
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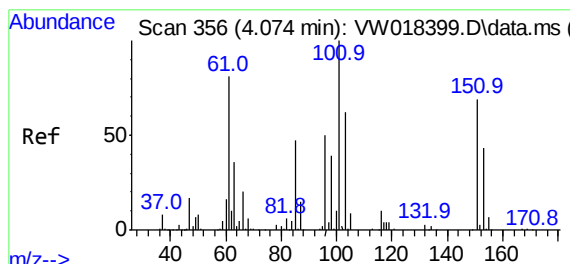
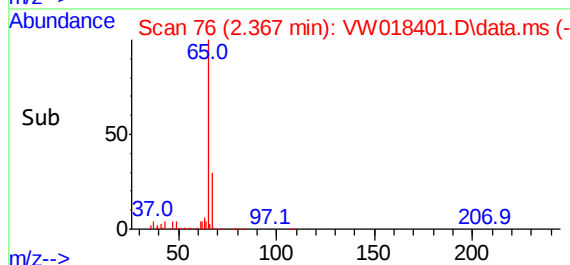
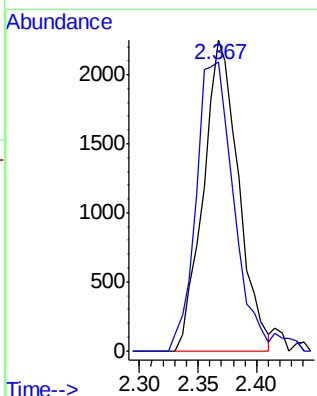
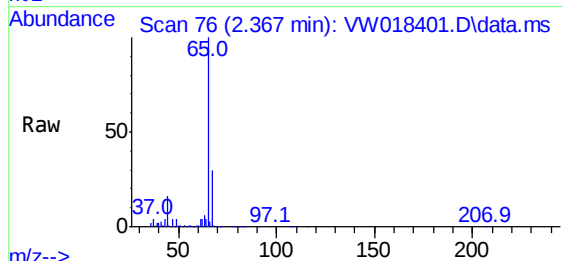




#5
 Vinyl chloride
 Concen: 1.24 ug/L
 RT: 2.367 min Scan# 76
 Delta R.T. -0.000 min
 Lab File: VW018401.D
 Acq: 19 Mar 2021 21:16

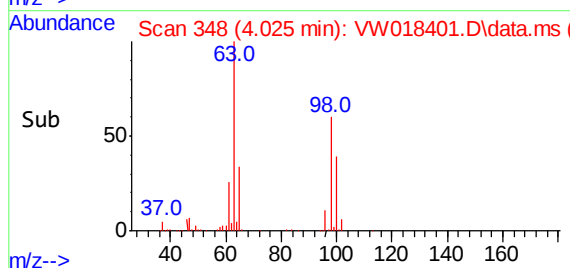
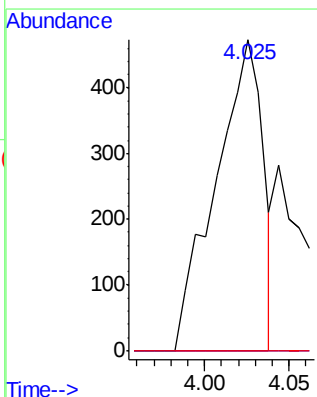
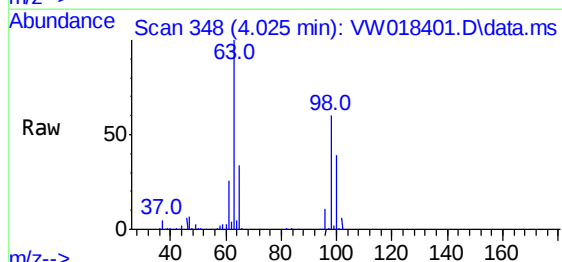
Instrument :
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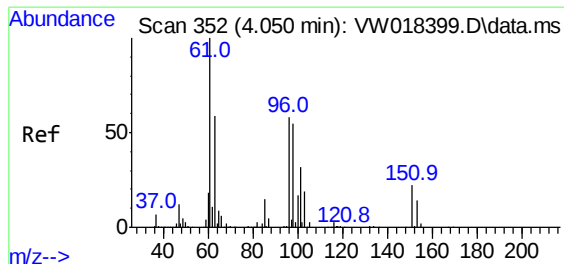
Tgt Ion: 62 Resp: 4705
 Ion Ratio Lower Upper
 62 100
 64 92.9 23.5 43.7#



#11
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.37 ug/L
 RT: 4.025 min Scan# 348
 Delta R.T. -0.049 min
 Lab File: VW018401.D
 Acq: 19 Mar 2021 21:16

Tgt Ion:101 Resp: 920
 Ion Ratio Lower Upper
 101 100
 85 0.0 35.6 53.4#
 151 0.0 58.1 87.1#

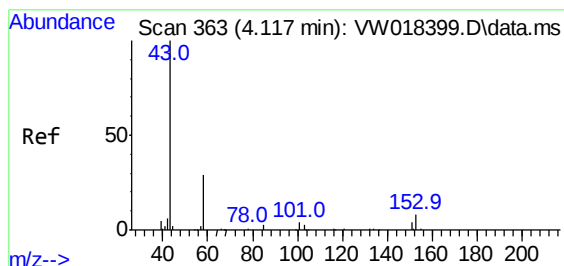
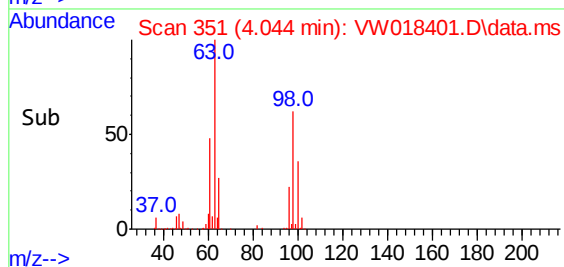
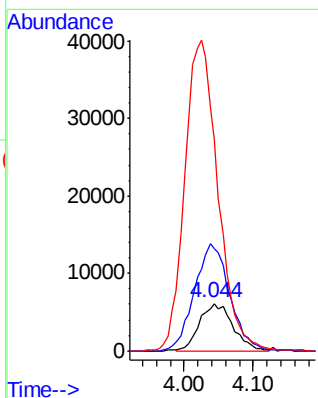
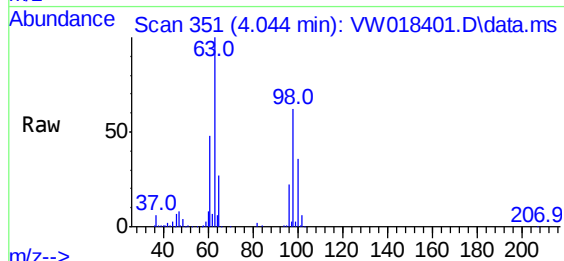




#12
1,1-Dichloroethene
Concen: 8.06 ug/L
RT: 4.044 min Scan# 351
Delta R.T. -0.006 min
Lab File: VW018401.D
Acq: 19 Mar 2021 21:16

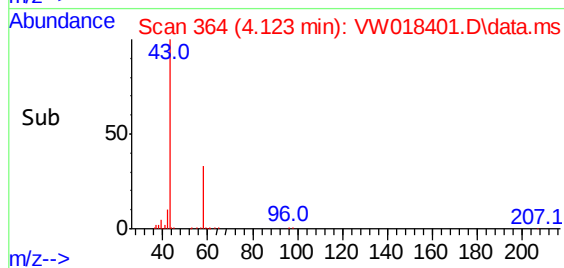
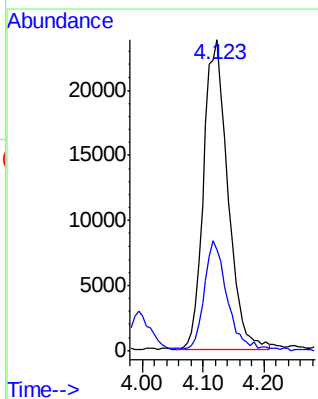
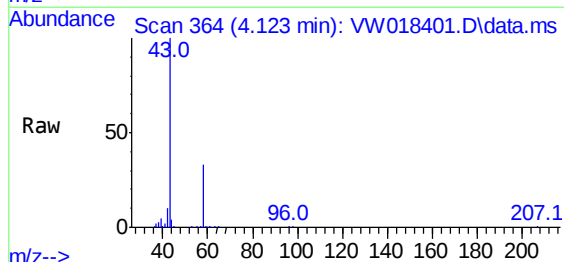
Instrument :
MSVOA_W
ClientSampled :
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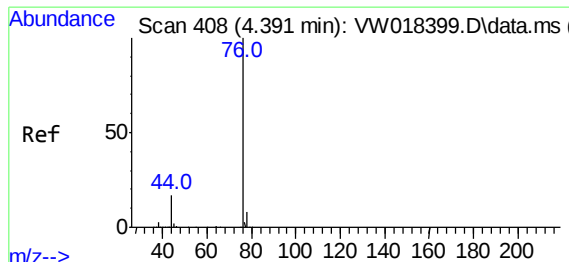
Tgt Ion: 96 Resp: 20255
Ion Ratio Lower Upper
96 100
61 215.7 118.6 220.2
63 447.9 82.4 153.0#



#13
Acetone
Concen: 147.89 ug/L
RT: 4.123 min Scan# 364
Delta R.T. 0.006 min
Lab File: VW018401.D
Acq: 19 Mar 2021 21:16

Tgt Ion: 43 Resp: 65899
Ion Ratio Lower Upper
43 100
58 32.5 0.0 62.2

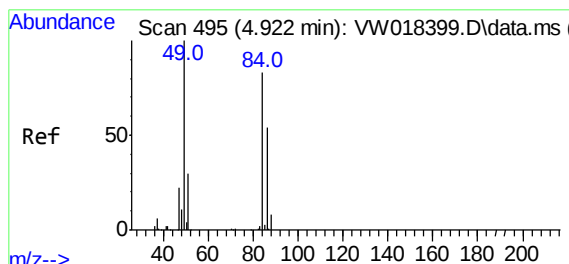
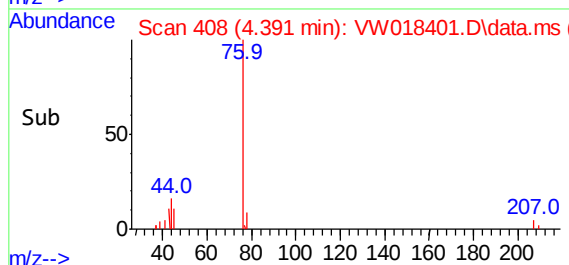
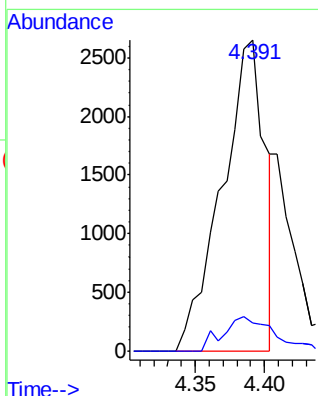
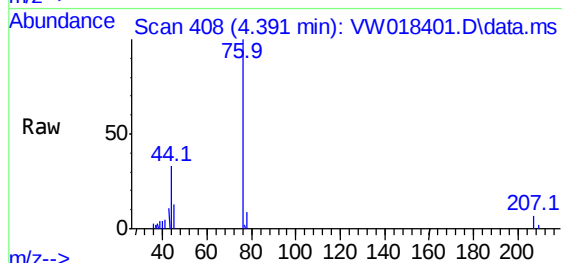




#14
Carbon disulfide
Concen: 0.75 ug/L
RT: 4.391 min Scan# 408
Delta R.T. -0.000 min
Lab File: VW018401.D
Acq: 19 Mar 2021 21:16

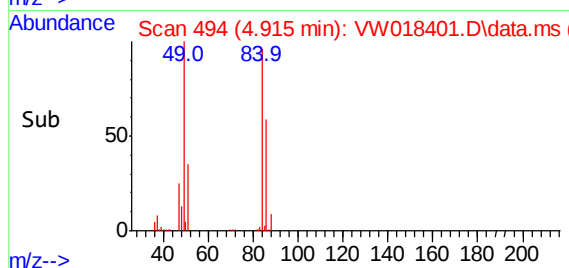
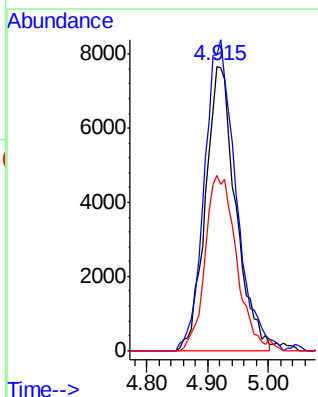
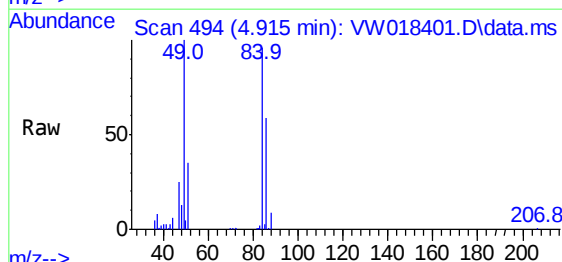
Instrument :
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ClientSampleId :
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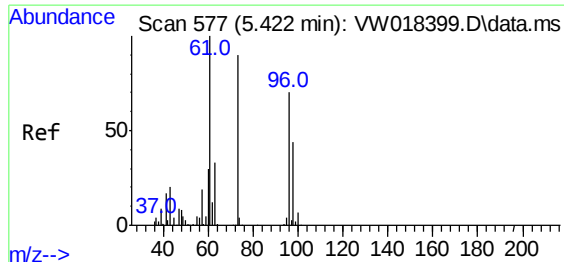
Tgt Ion: 76 Resp: 5690
Ion Ratio Lower Upper
76 100
78 8.9 7.4 11.2



#16
Methylene chloride
Concen: 7.95 ug/L
RT: 4.915 min Scan# 494
Delta R.T. -0.006 min
Lab File: VW018401.D
Acq: 19 Mar 2021 21:16

Tgt Ion: 84 Resp: 26111
Ion Ratio Lower Upper
84 100
49 104.2 74.4 138.2
86 61.6 46.1 85.7

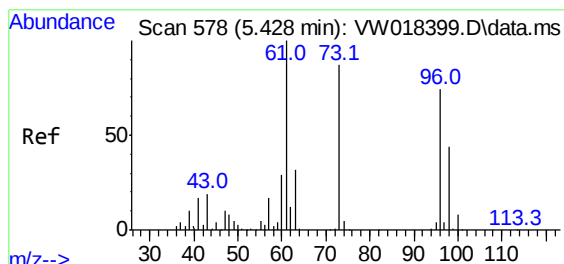
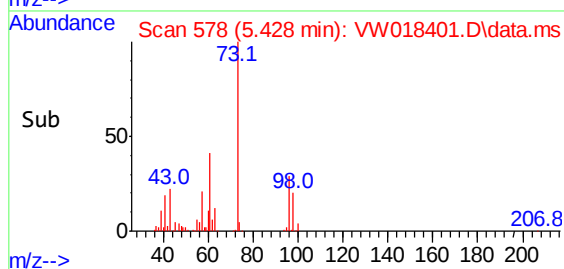
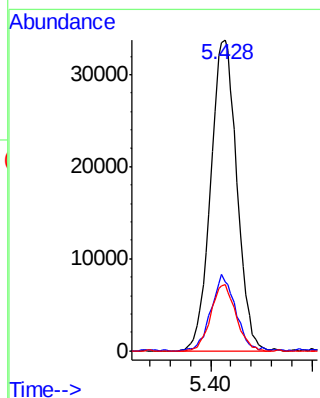
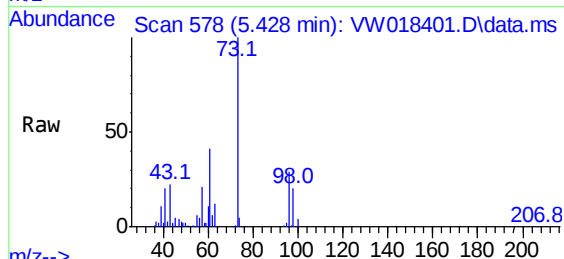




#17
Methyl tert-butyl Ether
Concen: 32.77 ug/L
RT: 5.428 min Scan# 578
Delta R.T. 0.006 min
Lab File: VW018401.D
Acq: 19 Mar 2021 21:16

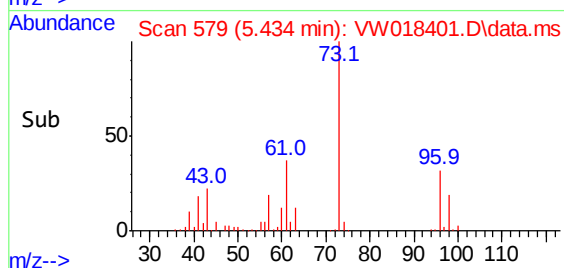
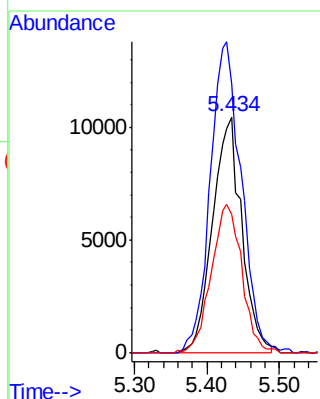
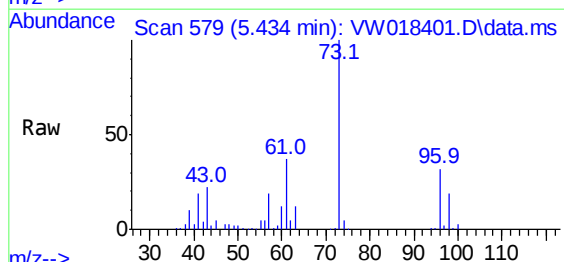
Instrument :
MSVOA_W
ClientSampled :
BG4L1

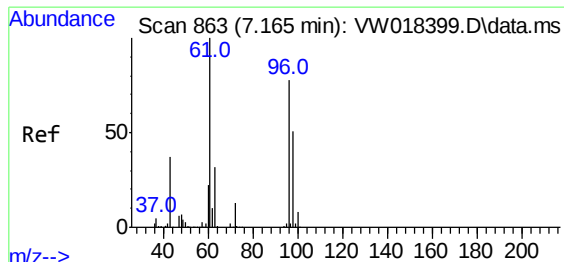
Tgt Ion: 73 Resp: 120308
Ion Ratio Lower Upper
73 100
43 22.9 16.6 24.8
57 20.4 15.9 23.9



#18
trans-1,2-Dichloroethene
Concen: 10.43 ug/L
RT: 5.434 min Scan# 579
Delta R.T. 0.006 min
Lab File: VW018401.D
Acq: 19 Mar 2021 21:16

Tgt Ion: 96 Resp: 28932
Ion Ratio Lower Upper
96 100
61 114.2 93.3 173.3
98 58.4 45.2 84.0

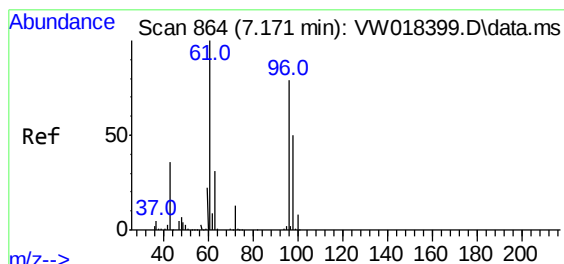
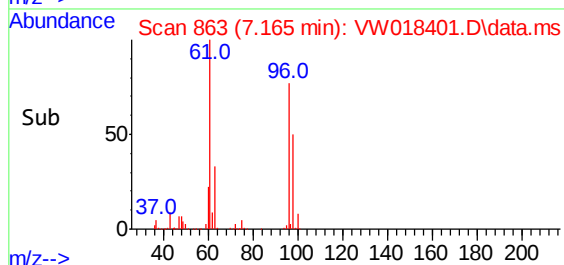
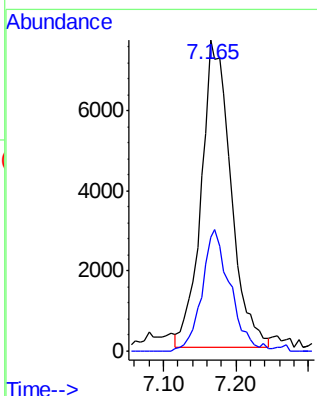
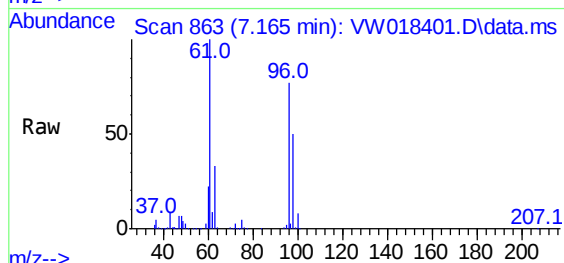




#21
2-Butanone
Concen: 30.60 ug/L
RT: 7.165 min Scan# 863
Delta R.T. -0.000 min
Lab File: VW018401.D
Acq: 19 Mar 2021 21:16

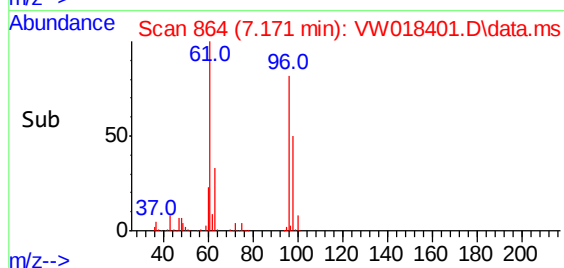
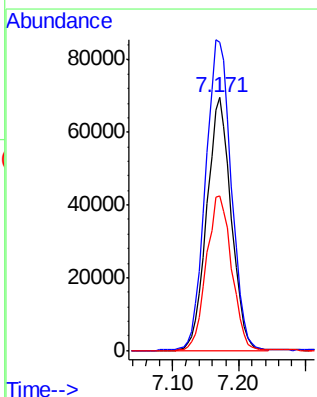
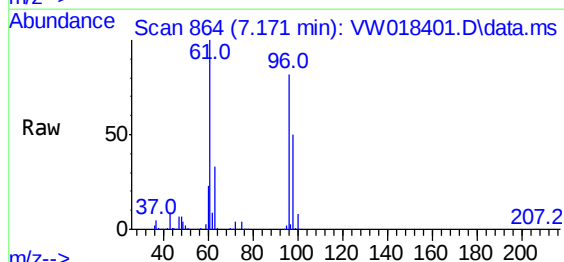
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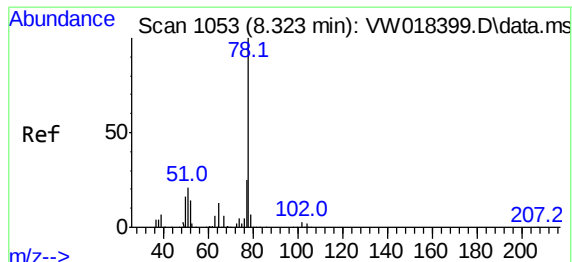
Tgt Ion: 43 Resp: 21662
Ion Ratio Lower Upper
43 100
72 36.9 16.5 49.5



#22
cis-1,2-Dichloroethene
Concen: 60.83 ug/L
RT: 7.171 min Scan# 864
Delta R.T. -0.000 min
Lab File: VW018401.D
Acq: 19 Mar 2021 21:16

Tgt Ion: 96 Resp: 177508
Ion Ratio Lower Upper
96 100
61 121.6 84.8 157.6
98 61.3 45.1 83.9

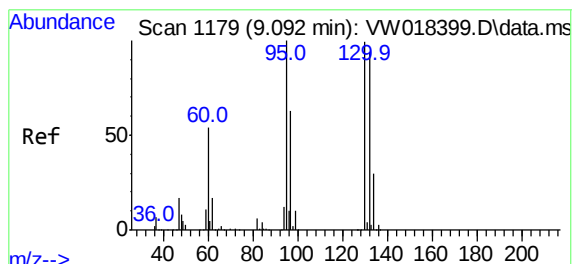
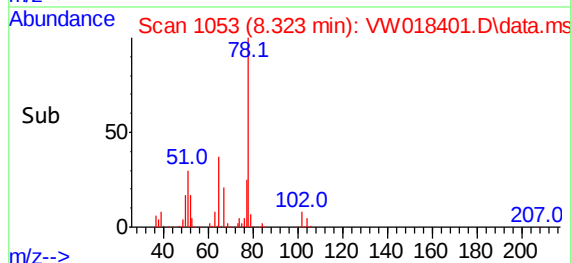
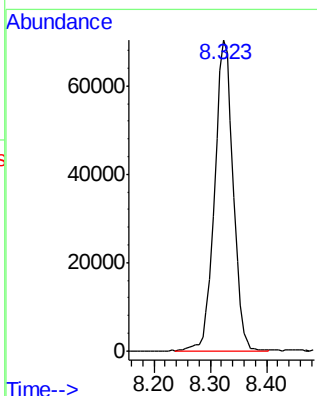
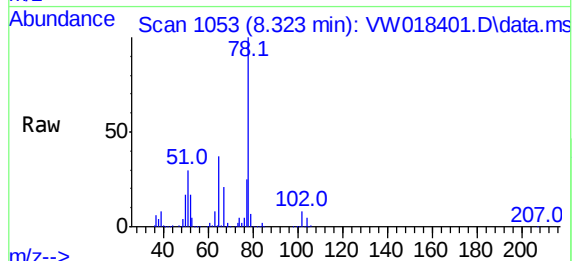




#34
Benzene
Concen: 31.34 ug/L
RT: 8.323 min Scan# 1053
Delta R.T. -0.000 min
Lab File: VW018401.D
Acq: 19 Mar 2021 21:16

Instrument :
MSVOA_W
ClientSampled :
BG4L1

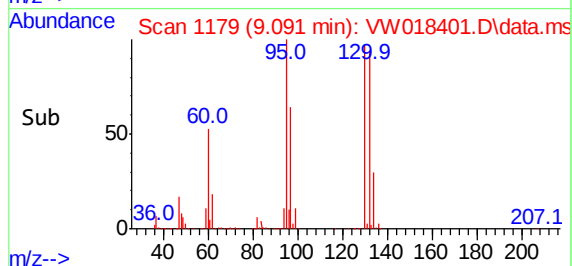
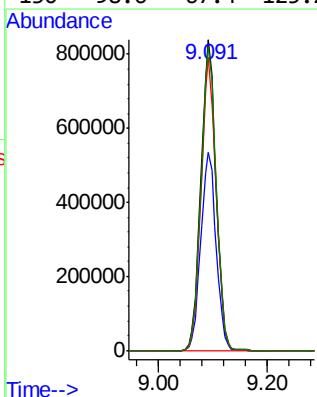
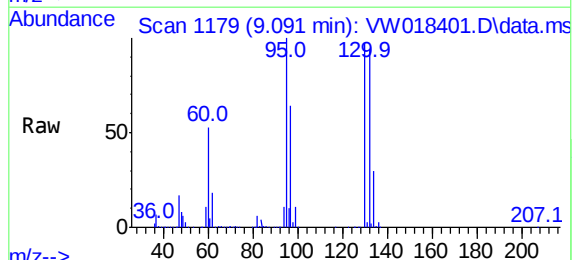
Tgt Ion: 78 Resp: 160328

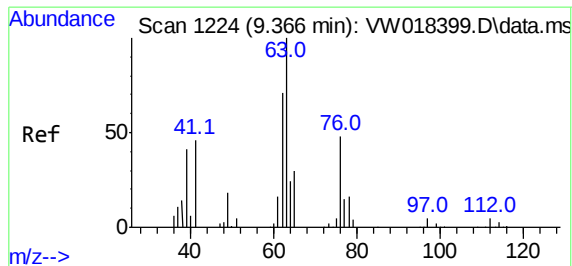


#35
Trichloroethene
Concen: 1135.83 ug/L
RT: 9.091 min Scan# 1179
Delta R.T. -0.000 min
Lab File: VW018401.D
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Tgt Ion: 95 Resp: 1605350

Ion	Ratio	Lower	Upper
95	100		
97	64.8	44.4	82.4
132	94.0	65.9	122.5
130	98.6	67.4	125.2

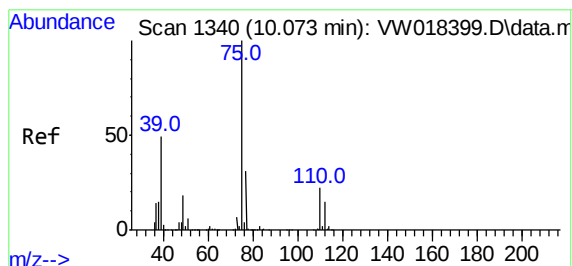
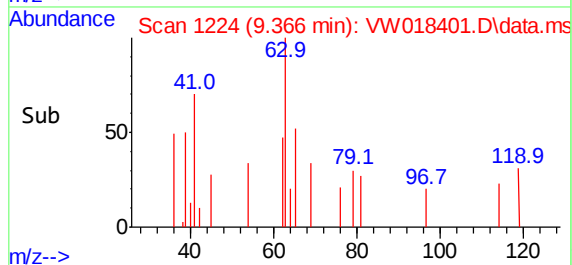
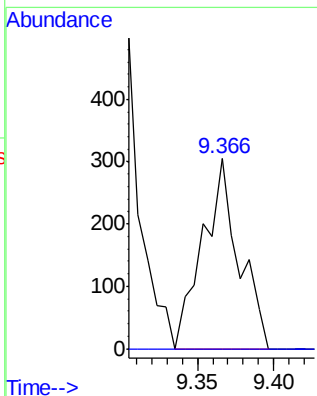
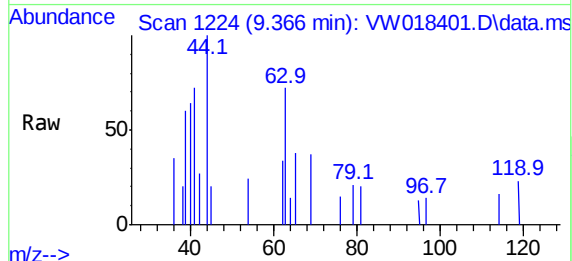




#40
1,2-Dichloropropane
Concen: 0.40 ug/L
RT: 9.366 min Scan# 1224
Delta R.T. -0.000 min
Lab File: VW018401.D
Acq: 19 Mar 2021 21:16

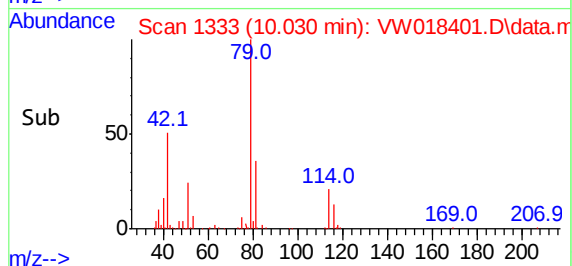
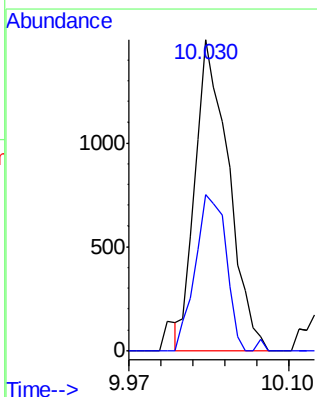
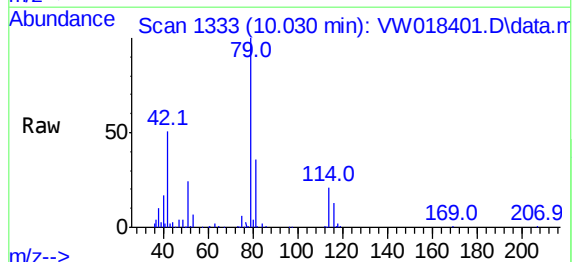
Instrument :
MSVOA_W
ClientSampled :
BG4L1

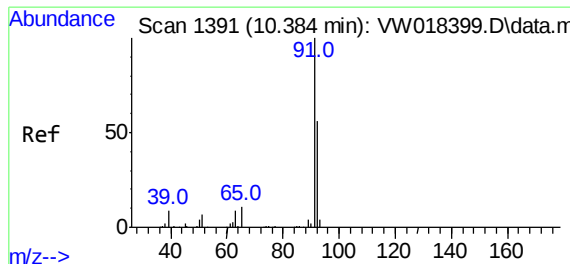
Tgt Ion: 63 Resp: 502
Ion Ratio Lower Upper
63 100
112 0.0 4.2 6.4#



#42
cis-1,3-Dichloropropene
Concen: 1.27 ug/L
RT: 10.030 min Scan# 1333
Delta R.T. -0.043 min
Lab File: VW018401.D
Acq: 19 Mar 2021 21:16

Tgt Ion: 75 Resp: 2686
Ion Ratio Lower Upper
75 100
77 50.3 22.4 41.6#

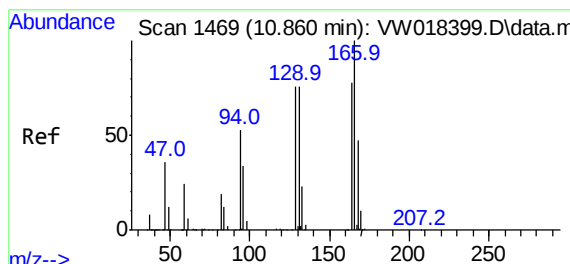
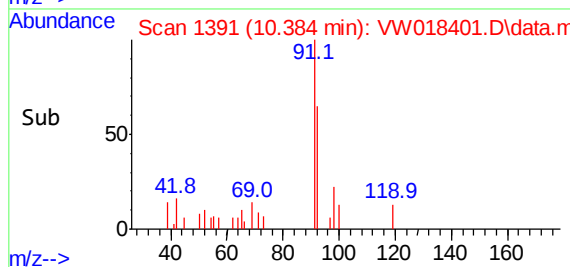
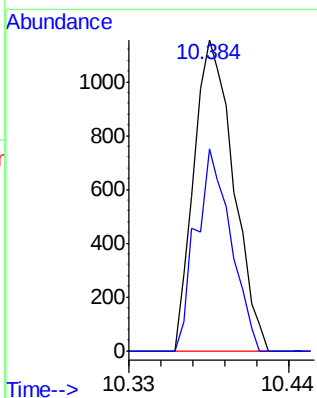
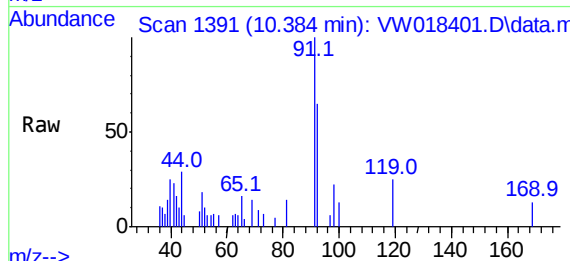




#44
Toluene
Concen: 0.39 ug/L
RT: 10.384 min Scan# 1391
Delta R.T. -0.000 min
Lab File: VW018401.D
Acq: 19 Mar 2021 21:16

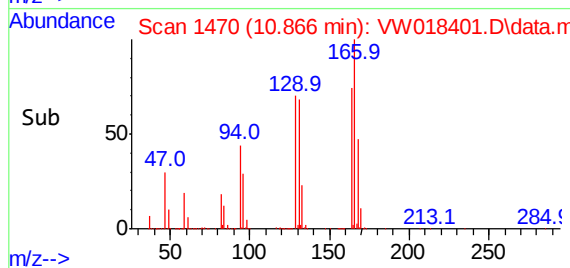
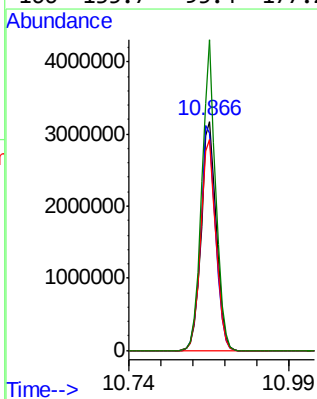
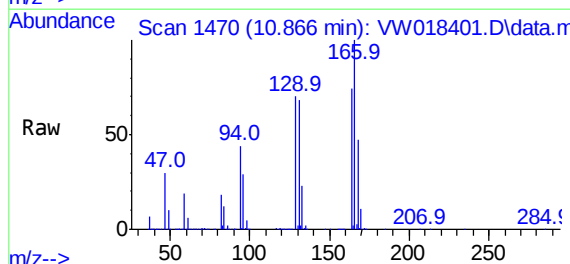
Instrument :
MSVOA_W
ClientSampleId :
BG4L1

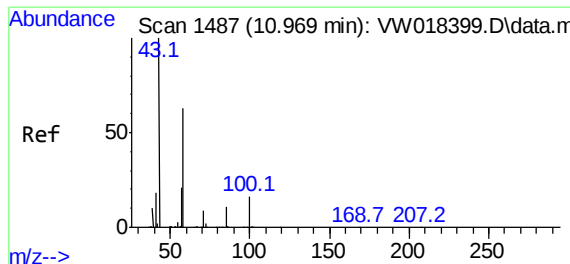
Tgt Ion: 91 Resp: 2289
Ion Ratio Lower Upper
91 100
92 65.1 42.3 78.5



#47
Tetrachloroethene
Concen: 4670.18 ug/L
RT: 10.866 min Scan# 1470
Delta R.T. 0.006 min
Lab File: VW018401.D
Acq: 19 Mar 2021 21:16

Tgt Ion: 164 Resp: 5012006
Ion Ratio Lower Upper
164 100
129 95.0 68.8 127.8
131 92.1 68.3 126.8
166 135.7 95.4 177.2

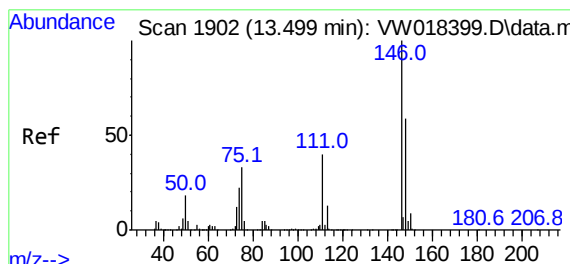
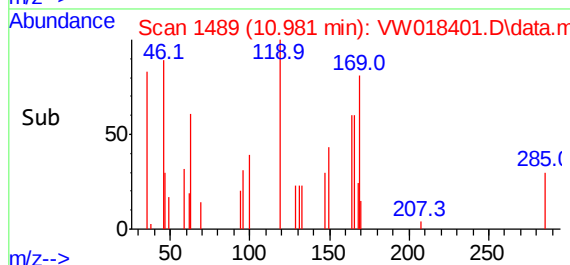
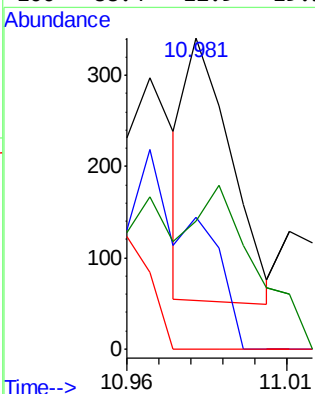
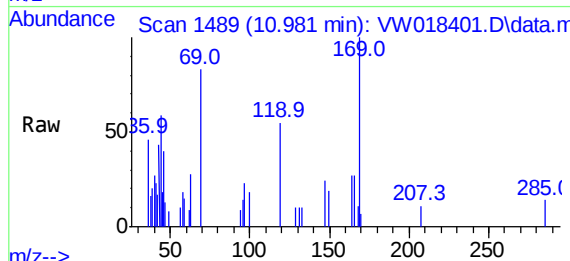




#49
2-Hexanone
Concen: 0.44 ug/L
RT: 10.981 min Scan# 1489
Delta R.T. 0.012 min
Lab File: VW018401.D
Acq: 19 Mar 2021 21:16

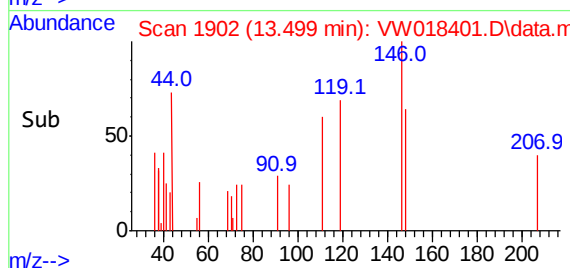
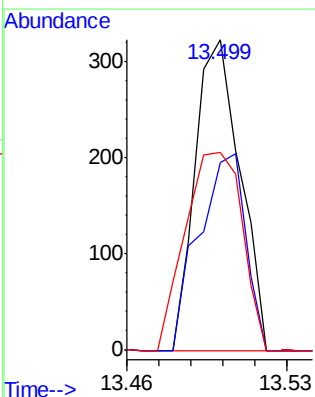
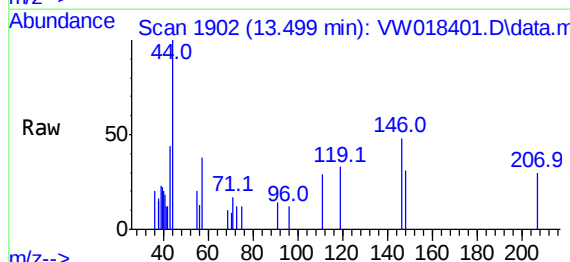
Instrument :
MSVOA_W
ClientSampled :
BG4L1

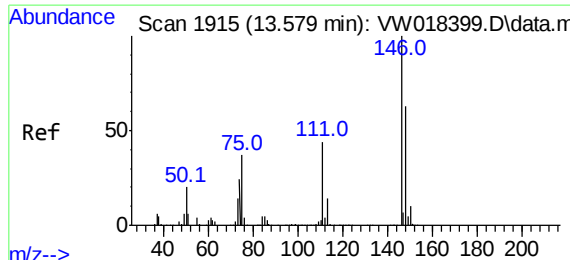
Tgt Ion:	43	Resp:	232
Ion	Ratio	Lower	Upper
43	100		
58	40.1	47.3	70.9#
57	0.0	17.3	25.9#
100	88.4	12.9	19.3#



#63
1,3-Dichlorobenzene
Concen: 0.41 ug/L
RT: 13.499 min Scan# 1902
Delta R.T. -0.000 min
Lab File: VW018401.D
Acq: 19 Mar 2021 21:16

Tgt Ion:	146	Resp:	389
Ion	Ratio	Lower	Upper
146	100		
111	60.2	27.5	51.1#
148	63.7	43.0	80.0

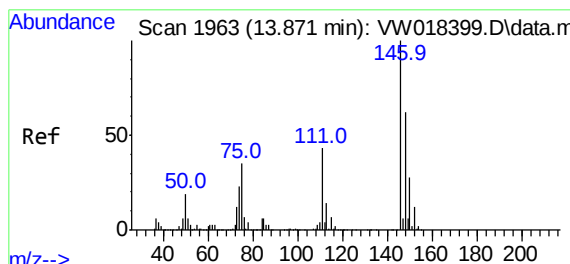
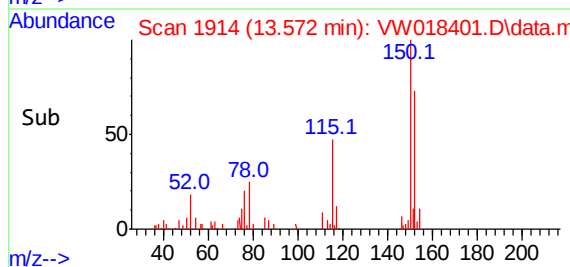
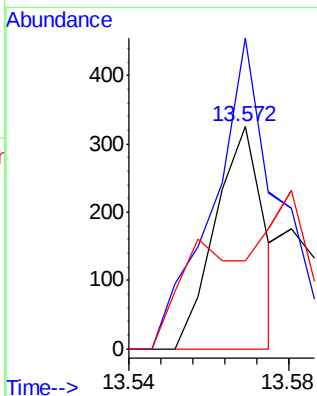
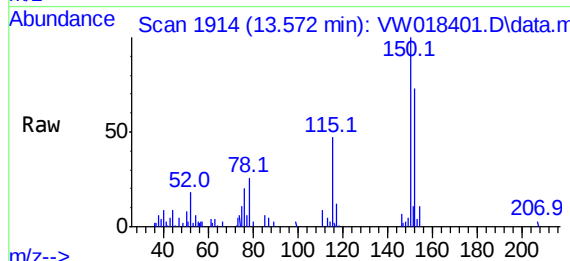




#64
1,4-Dichlorobenzene
Concen: 0.30 ug/L
RT: 13.572 min Scan# 1914
Delta R.T. -0.006 min
Lab File: VW018401.D
Acq: 19 Mar 2021 21:16

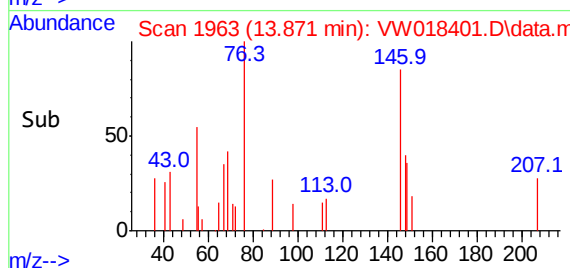
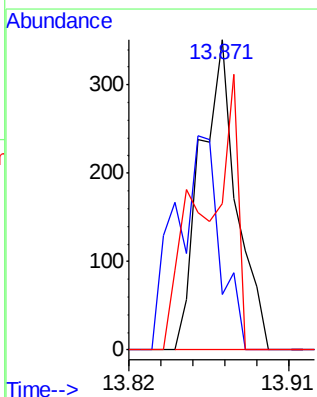
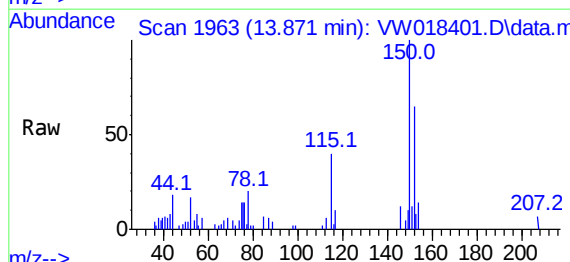
Instrument :
MSVOA_W
ClientSampleId :
BG4L1

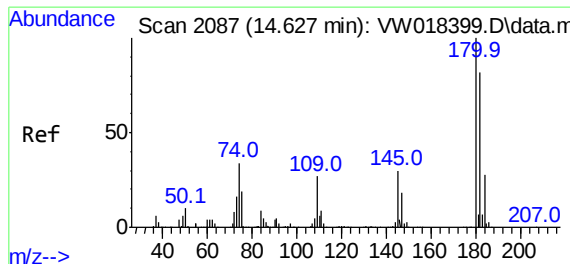
Tgt Ion:146 Resp: 289
Ion Ratio Lower Upper
146 100
111 140.0 28.3 52.5#
148 39.4 47.3 87.9#



#65
1,2-Dichlorobenzene
Concen: 0.53 ug/L
RT: 13.871 min Scan# 1963
Delta R.T. -0.000 min
Lab File: VW018401.D
Acq: 19 Mar 2021 21:16

Tgt Ion:146 Resp: 452
Ion Ratio Lower Upper
146 100
111 17.9 36.0 54.0#
148 47.0 50.2 75.4#



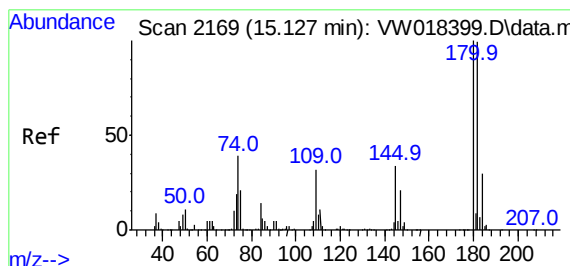
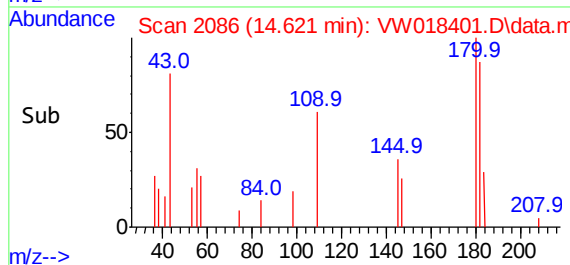
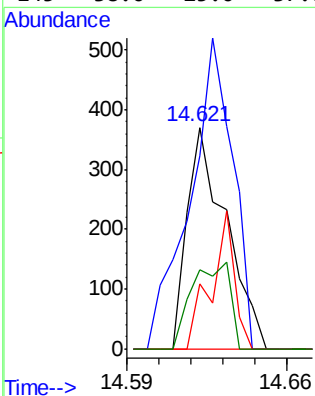
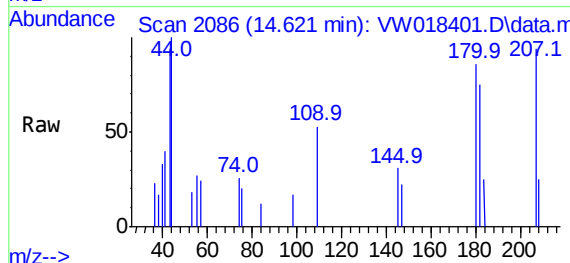


#67
1,3,5-Trichlorobenzene
Concen: 0.67 ug/L
RT: 14.621 min Scan# 2086
Delta R.T. -0.006 min
Lab File: VW018401.D
Acq: 19 Mar 2021 21:16

Instrument :
MSVOA_W
ClientSampleId :
BG4L1

Tgt Ion:180 Resp: 463

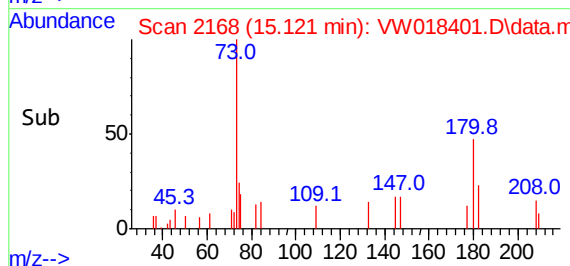
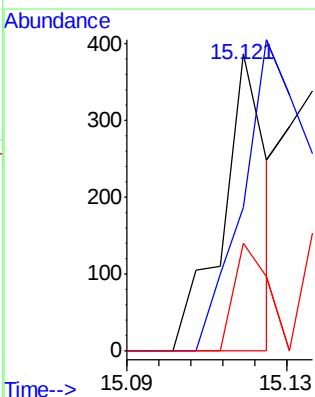
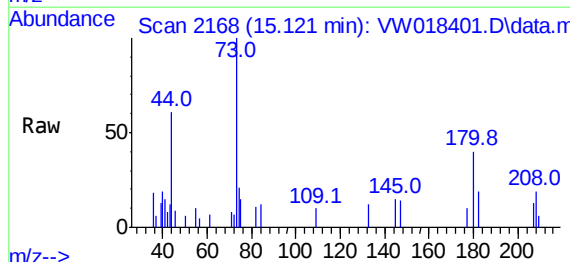
Ion	Ratio	Lower	Upper
180	100		
182	153.8	71.8	107.8#
184	36.9	23.5	35.3#
145	38.0	25.0	37.6#

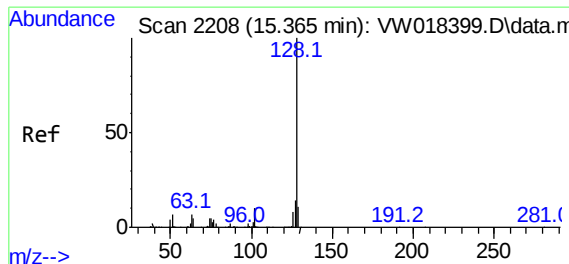


#68
1,2,4-trichlorobenzene
Concen: 0.53 ug/L
RT: 15.121 min Scan# 2168
Delta R.T. -0.006 min
Lab File: VW018401.D
Acq: 19 Mar 2021 21:16

Tgt Ion:180 Resp: 311

Ion	Ratio	Lower	Upper
180	100		
182	182.3	70.2	105.4#
145	28.0	24.9	37.3

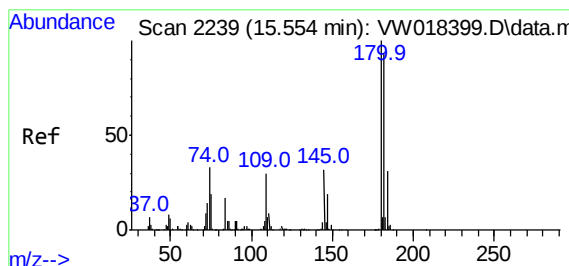
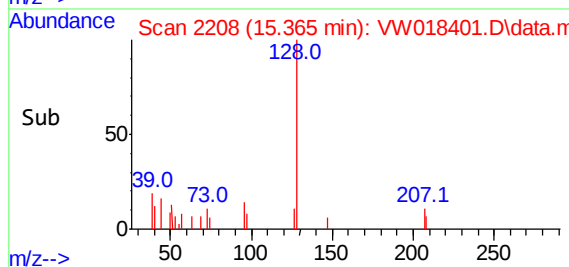
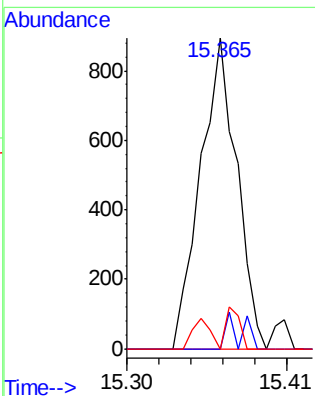
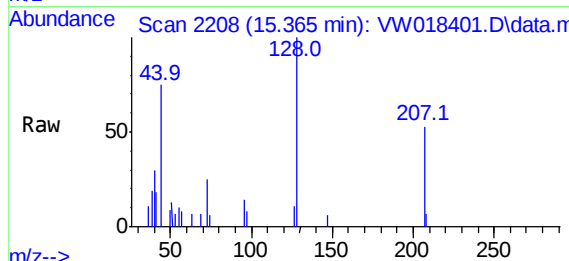




#69
Naphthalene
Concen: 1.22 ug/L
RT: 15.365 min Scan# 2208
Delta R.T. -0.000 min
Lab File: VW018401.D
Acq: 19 Mar 2021 21:16

Instrument :
MSVOA_W
ClientSampled :
BG4L1

Tgt Ion:128 Resp: 1482
Ion Ratio Lower Upper
128 100
129 2.6 9.1 13.7#
127 5.3 10.7 16.1#



#70
1,2,3-Trichlorobenzene
Concen: 1.05 ug/L
RT: 15.554 min Scan# 2239
Delta R.T. -0.000 min
Lab File: VW018401.D
Acq: 19 Mar 2021 21:16

Tgt Ion:180 Resp: 539
Ion Ratio Lower Upper
180 100
182 87.4 76.5 114.7
145 36.4 27.7 41.5

