

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW033021\
 Data File : VW018498.D
 Acq On : 30 Mar 2021 10:54
 Operator : SY/VA
 Sample : M1816-16
 Misc : 5.72G/10ML/MSVOA_W/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 BG3Q2RE

Quant Time: Mar 31 01:13:19 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SOM2WLM031921S.M
 Quant Title : VOC Analysis
 QLast Update : Wed Mar 31 01:12:37 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.841	114	42331	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.628	117	27843	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.560	152	7589	25.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.349	65	17273	29.32	ug/L	0.00
Spiked Amount 25.000	Range 30 - 150		Recovery = 117.28%			
7) Chloroethane-d5	2.885	69	16143	31.31	ug/L	0.00
Spiked Amount 25.000	Range 30 - 150		Recovery = 125.24%			
10) 1,1-Dichloroethene-d2	4.019	63	18655	18.34	ug/L	0.00
Spiked Amount 25.000	Range 45 - 110		Recovery = 73.36%			
20) 2-Butanone-d5	7.074	46	10212	77.87	ug/L	0.00
Spiked Amount 50.000	Range 20 - 135		Recovery = 155.74%#			
24) Chloroform-d	7.647	84	30016	27.84	ug/L	0.00
Spiked Amount 25.000	Range 40 - 150		Recovery = 111.36%			
26) 1,2-Dichloroethane-d4	8.305	65	18980	30.16	ug/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 120.64%			
29) Benzene-d6	8.274	84	54360	36.73	ug/L	0.00
Spiked Amount 25.000	Range 20 - 135		Recovery = 146.92%#			
33) 1,2-Dichloropropane-d6	9.274	67	16086	37.68	ug/L	0.00
Spiked Amount 25.000	Range 70 - 120		Recovery = 150.72%#			
37) Toluene-d8	10.323	98	40697	28.56	ug/L	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 114.24%			
38) trans-1,3-Dichloroprop...	10.579	79	5713	25.94	ug/L	0.00
Spiked Amount 25.000	Range 30 - 135		Recovery = 103.76%			
39) 2-Hexanone-d5	10.926	63	5815	69.59	ug/L	0.00
Spiked Amount 50.000	Range 20 - 135		Recovery = 139.18%#			
48) 1,1,2,2-Tetrachloroeth...	12.688	84	13146	34.42	ug/L	0.00
Spiked Amount 25.000	Range 45 - 120		Recovery = 137.68%#			
61) 1,2-Dichlorobenzene-d4	13.847	152	6964	25.81	ug/L	0.00
Spiked Amount 25.000	Range 75 - 120		Recovery = 103.24%			
Target Compounds					Qvalue	
3) Chloromethane	2.318	50	195	0.32	ug/L	87
5) Vinyl chloride	2.361	62	4057	5.04	ug/L	91
6) Bromomethane	2.788	94	206	0.35	ug/L	70
13) Acetone	4.123	43	10855	115.22	ug/L	61
14) Carbon disulfide	4.385	76	12327	7.70	ug/L	97
15) Methyl Acetate	4.659	43	71	0.33	ug/L #	46
16) Methylene chloride	4.921	84	10235	14.74	ug/L	99
17) Methyl tert-butyl Ether	5.421	73	291	0.37	ug/L #	68
21) 2-Butanone	7.177	43	1315	8.79	ug/L	95
27) 1,2-Dichloroethane	8.396	62	172	0.23	ug/L #	77
34) Benzene	8.317	78	519	0.32	ug/L	100
35) Trichloroethene	8.835	95	1228	2.76	ug/L #	6
40) 1,2-Dichloropropane	9.274	63	2263	5.74	ug/L #	84
42) cis-1,3-Dichloropropene	10.036	75	504	0.76	ug/L #	52
43) 4-Methyl-2-pentanone	10.207	43	204	0.86	ug/L #	40
44) Toluene	10.384	91	705	0.38	ug/L #	58
45) trans-1,3-Dichloropropene	10.579	75	220	0.37	ug/L #	1
49) 2-Hexanone	10.969	43	273	1.63	ug/L #	45
50) Dibromochloromethane	10.853	129	157	0.42	ug/L #	8
52) Chlorobenzene	11.652	112	319	0.27	ug/L #	68

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

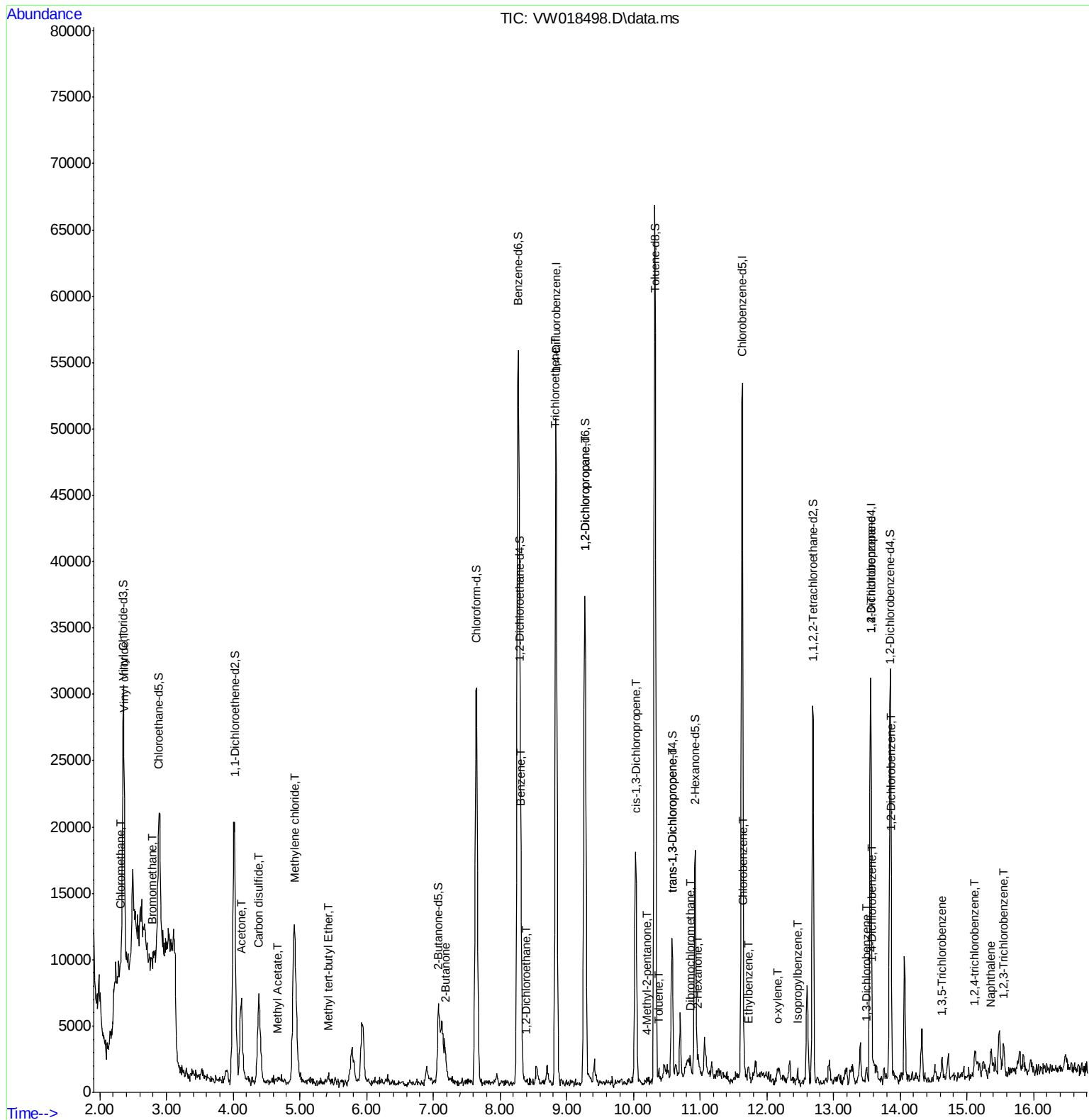
53) Ethylbenzene	11.731	91	783	0.38	ug/L #	44
55) o-xylene	12.158	106	202	0.27	ug/L #	59
57) Isopropylbenzene	12.463	105	668	0.33	ug/L #	71
59) 1,2,3-Trichloropropane	13.560	75	1280	4.45	ug/L	94
63) 1,3-Dichlorobenzene	13.499	146	331	0.68	ug/L #	79
64) 1,4-Dichlorobenzene	13.578	146	457	0.93	ug/L	84
65) 1,2-Dichlorobenzene	13.865	146	358	0.82	ug/L #	69
67) 1,3,5-Trichlorobenzene	14.621	180	509	1.45	ug/L #	84
68) 1,2,4-trichlorobenzene	15.121	180	305	1.02	ug/L #	15
69) Naphthalene	15.359	128	1565	2.52	ug/L #	95
70) 1,2,3-Trichlorobenzene	15.548	180	393	1.51	ug/L #	70

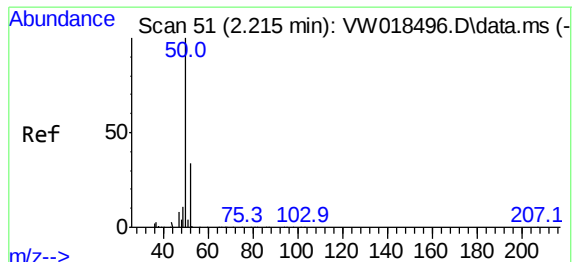
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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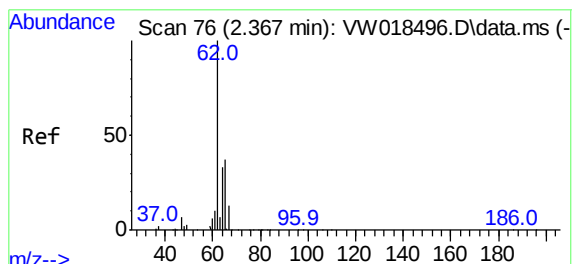
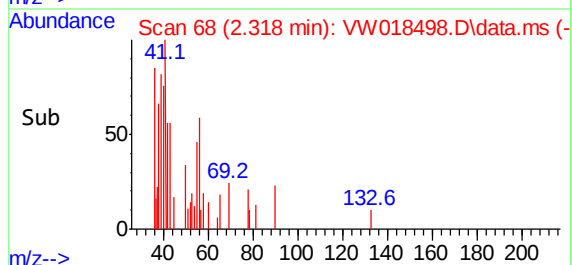
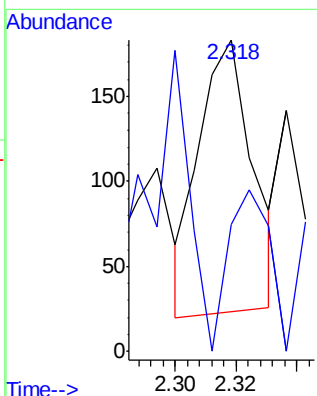
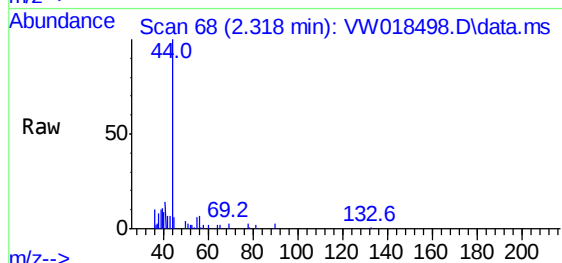




#3
Chloromethane
Concen: 0.32 ug/L
RT: 2.318 min Scan# 68
Delta R.T. 0.103 min
Lab File: VW018498.D
Acq: 30 Mar 2021 10:54

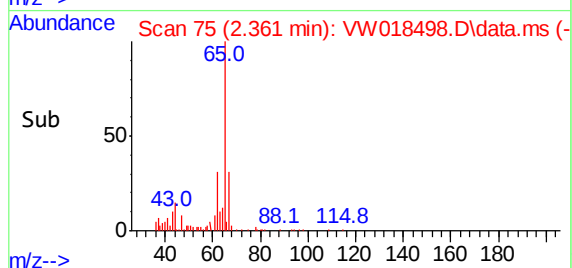
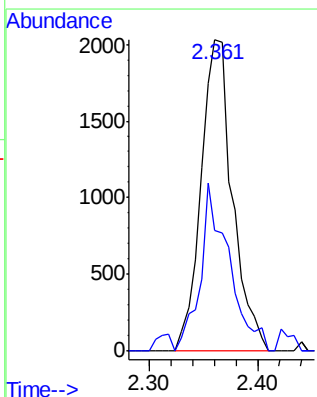
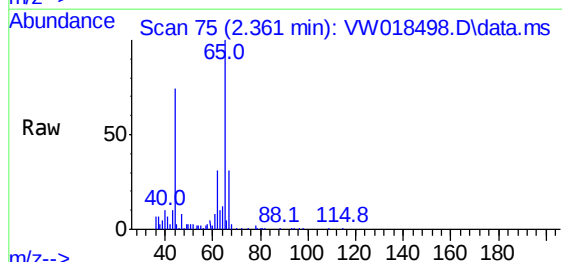
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ClientSampleId :
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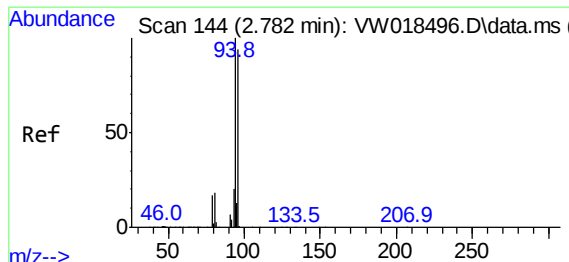
Tgt Ion: 50 Resp: 195
Ion Ratio Lower Upper
50 100
52 41.0 23.7 43.9



#5
Vinyl chloride
Concen: 5.04 ug/L
RT: 2.361 min Scan# 75
Delta R.T. -0.006 min
Lab File: VW018498.D
Acq: 30 Mar 2021 10:54

Tgt Ion: 62 Resp: 4057
Ion Ratio Lower Upper
62 100
64 38.5 23.5 43.7

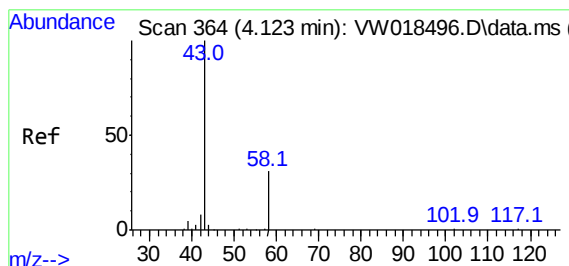
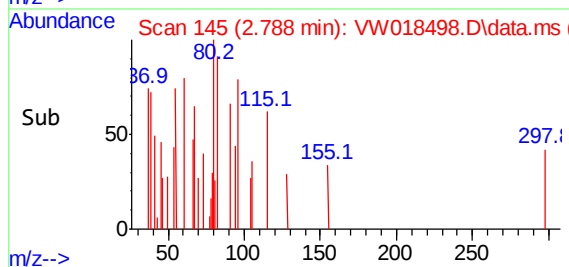
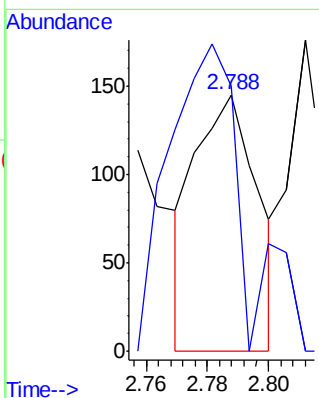
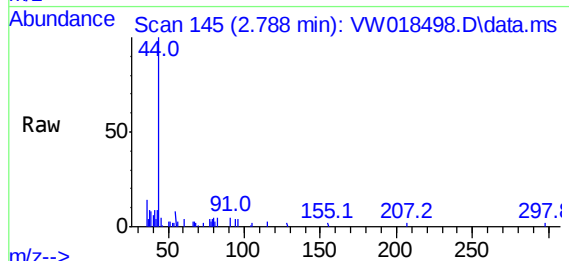




#6
Bromomethane
Concen: 0.35 ug/L
RT: 2.788 min Scan# 145
Delta R.T. 0.006 min
Lab File: VW018498.D
Acq: 30 Mar 2021 10:54

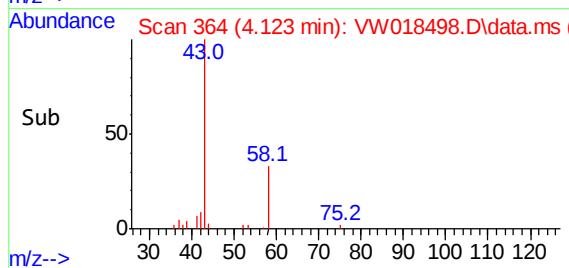
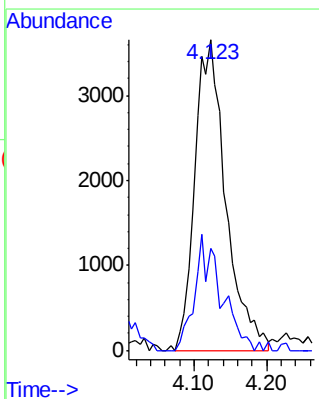
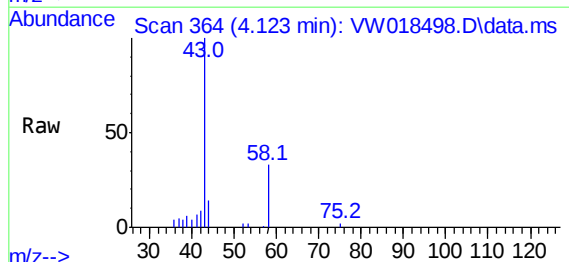
Instrument :
MSVOA_W
ClientSampleId :
BG3Q2RE

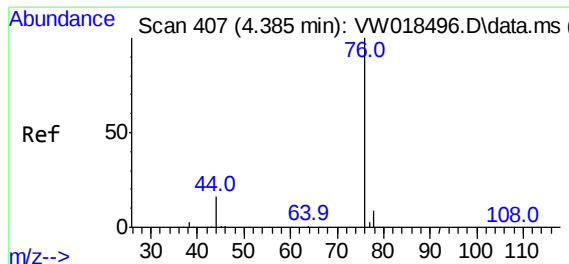
Tgt Ion: 94 Resp: 206
Ion Ratio Lower Upper
94 100
96 123.8 9.4 179.4



#13
Acetone
Concen: 115.22 ug/L
RT: 4.123 min Scan# 364
Delta R.T. -0.000 min
Lab File: VW018498.D
Acq: 30 Mar 2021 10:54

Tgt Ion: 43 Resp: 10855
Ion Ratio Lower Upper
43 100
58 9.5 0.0 62.2

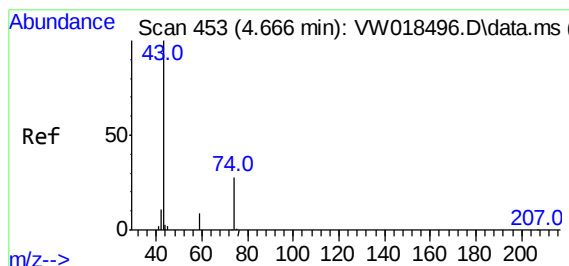
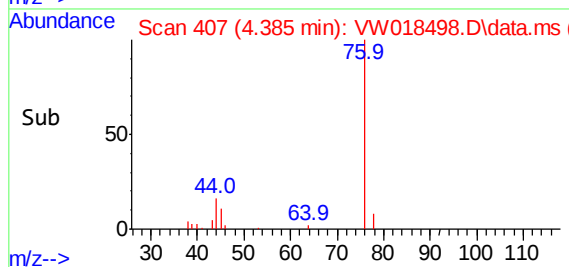
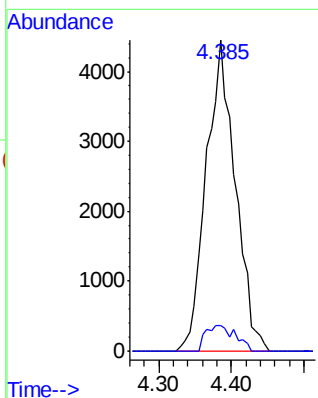
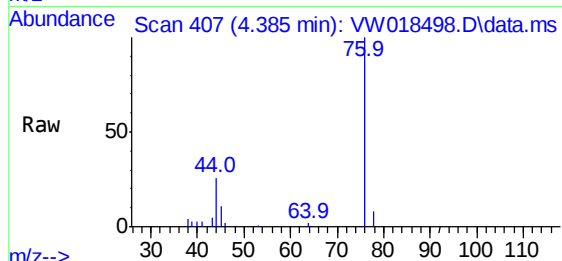




#14
Carbon disulfide
Concen: 7.70 ug/L
RT: 4.385 min Scan# 407
Delta R.T. -0.000 min
Lab File: VW018498.D
Acq: 30 Mar 2021 10:54

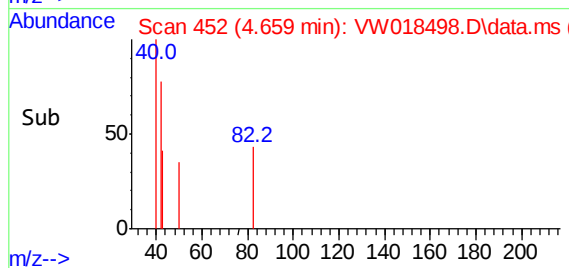
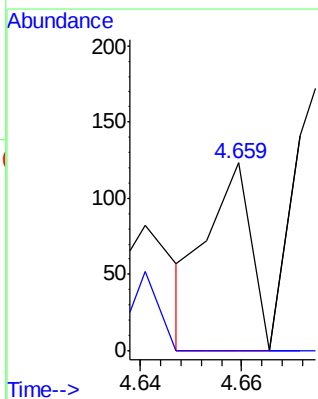
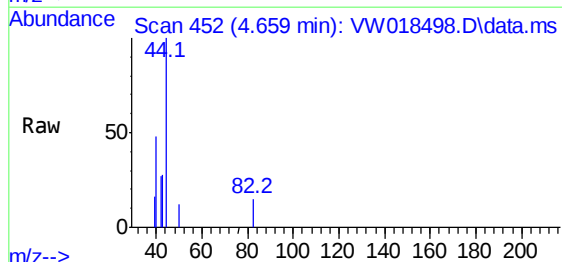
Instrument :
MSVOA_W
ClientSampleId :
BG3Q2RE

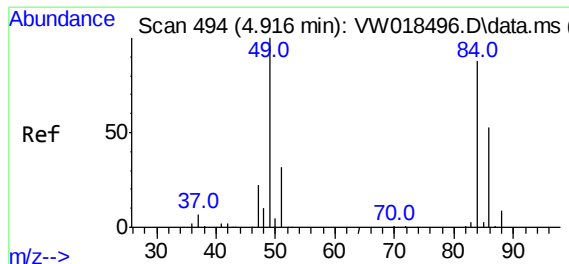
Tgt Ion: 76 Resp: 12327
Ion Ratio Lower Upper
76 100
78 8.1 7.4 11.2



#15
Methyl Acetate
Concen: 0.33 ug/L
RT: 4.659 min Scan# 452
Delta R.T. -0.006 min
Lab File: VW018498.D
Acq: 30 Mar 2021 10:54

Tgt Ion: 43 Resp: 71
Ion Ratio Lower Upper
43 100
74 0.0 22.9 34.3#



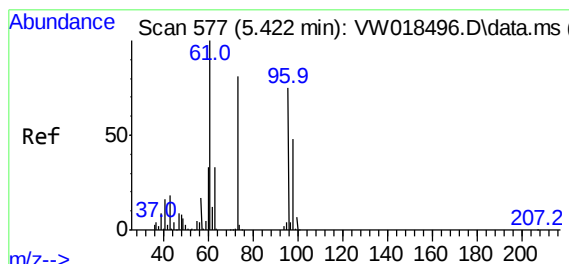
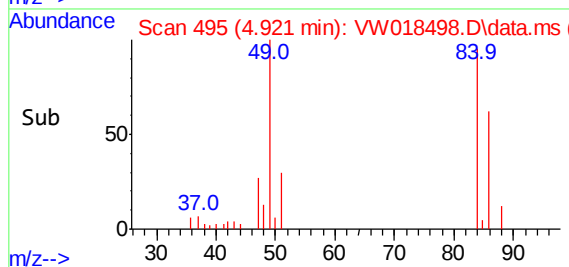
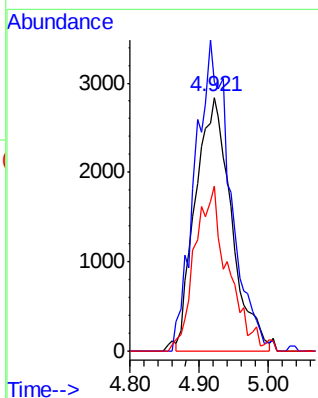
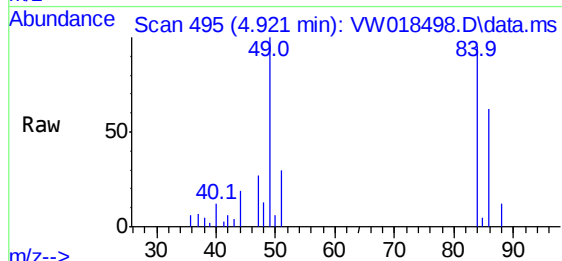


#16
Methylene chloride
Concen: 14.74 ug/L
RT: 4.921 min Scan# 495
Delta R.T. 0.006 min
Lab File: VW018498.D
Acq: 30 Mar 2021 10:54

Instrument :
MSVOA_W
ClientSampled :
BG3Q2RE

Tgt Ion: 84 Resp: 10235

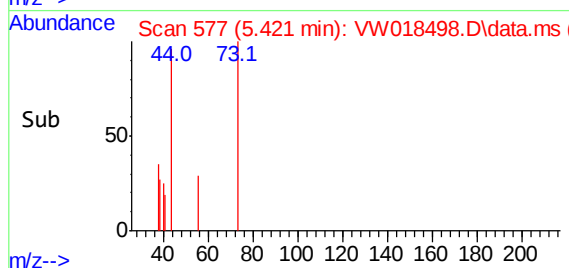
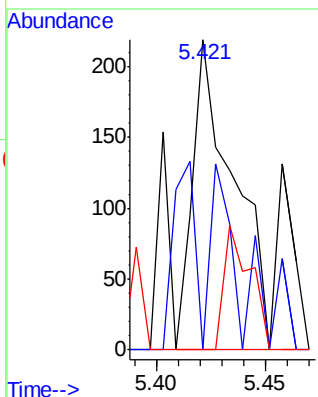
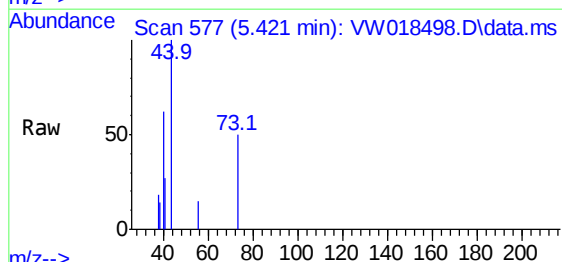
Ion	Ratio	Lower	Upper
84	100		
49	105.7	74.4	138.2
86	65.1	46.1	85.7

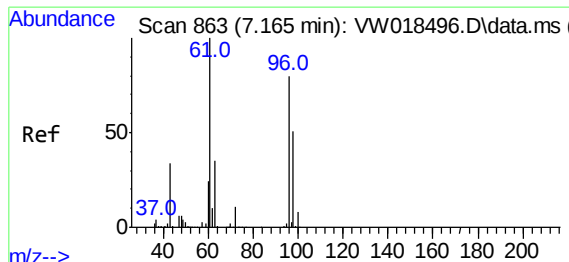


#17
Methyl tert-butyl Ether
Concen: 0.37 ug/L
RT: 5.421 min Scan# 577
Delta R.T. -0.000 min
Lab File: VW018498.D
Acq: 30 Mar 2021 10:54

Tgt Ion: 73 Resp: 291

Ion	Ratio	Lower	Upper
73	100		
43	30.9	16.6	24.8#
57	0.0	15.9	23.9#

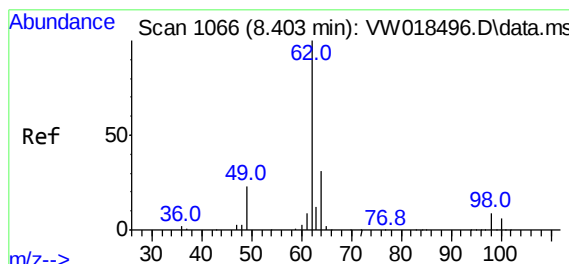
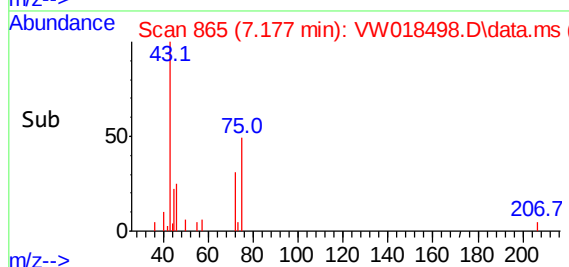
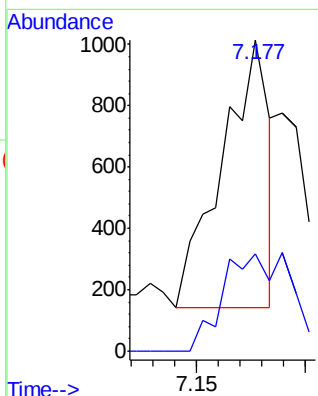
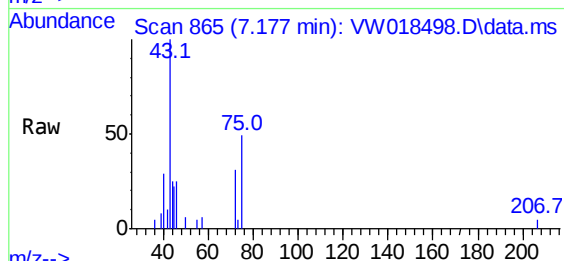




#21
2-Butanone
Concen: 8.79 ug/L
RT: 7.177 min Scan# 865
Delta R.T. 0.012 min
Lab File: VW018498.D
Acq: 30 Mar 2021 10:54

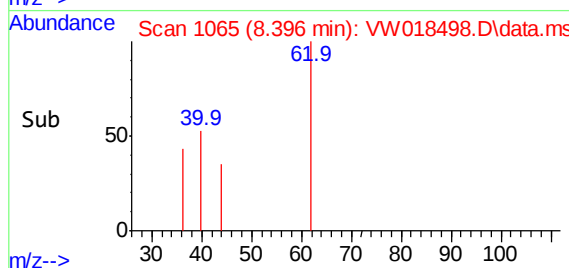
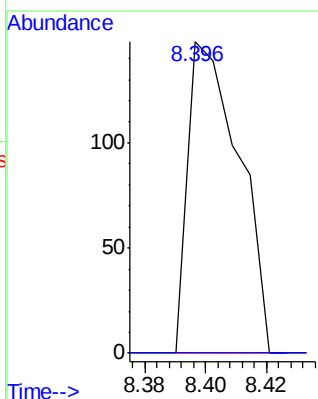
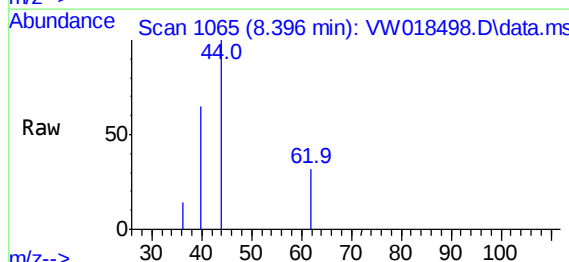
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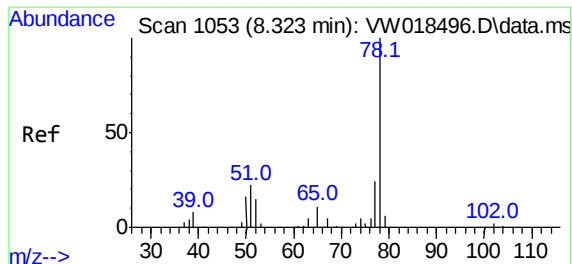
Tgt Ion: 43 Resp: 1315
Ion Ratio Lower Upper
43 100
72 35.7 16.5 49.5



#27
1,2-Dichloroethane
Concen: 0.23 ug/L
RT: 8.396 min Scan# 1065
Delta R.T. -0.006 min
Lab File: VW018498.D
Acq: 30 Mar 2021 10:54

Tgt Ion: 62 Resp: 172
Ion Ratio Lower Upper
62 100
98 0.0 6.4 9.6#

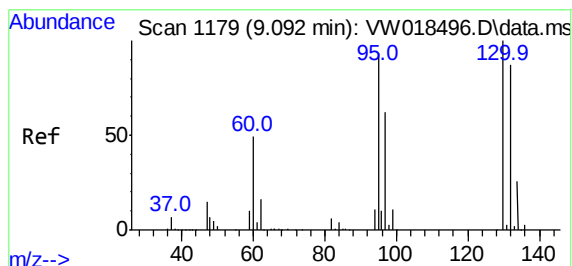
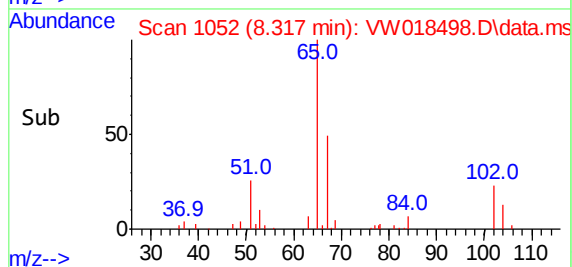
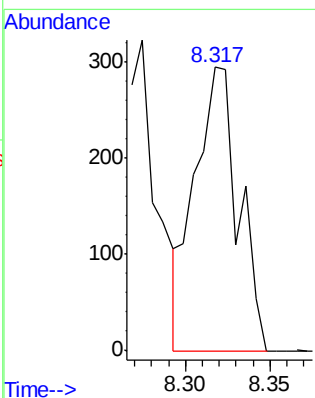
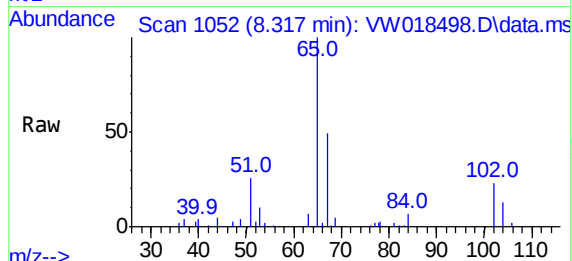




#34
Benzene
Concen: 0.32 ug/L
RT: 8.317 min Scan# 1052
Delta R.T. -0.006 min
Lab File: VW018498.D
Acq: 30 Mar 2021 10:54

Instrument :
MSVOA_W
ClientSampleId :
BG3Q2RE

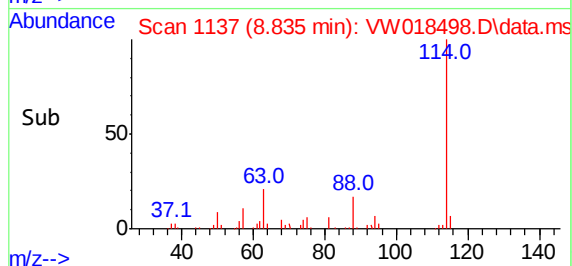
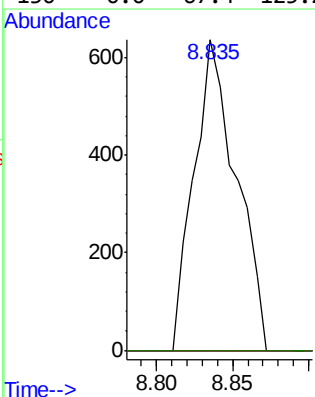
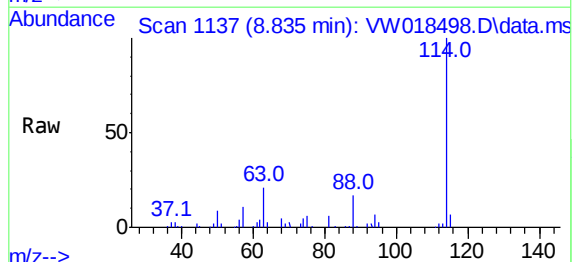
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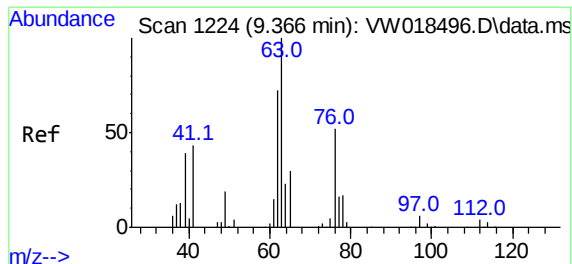


#35
Trichloroethene
Concen: 2.76 ug/L
RT: 8.835 min Scan# 1137
Delta R.T. -0.256 min
Lab File: VW018498.D
Acq: 30 Mar 2021 10:54

Tgt Ion: 95 Resp: 1228

Ion	Ratio	Lower	Upper
95	100		
97	0.0	44.4	82.4#
132	0.0	65.9	122.5#
130	0.0	67.4	125.2#

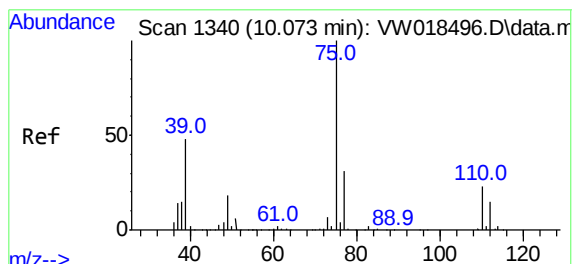
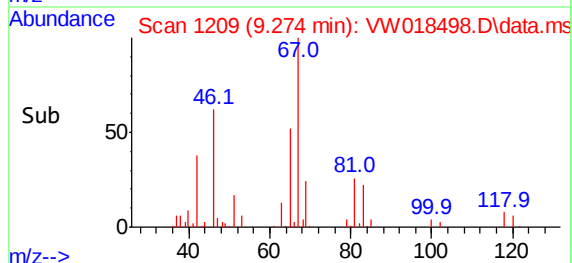
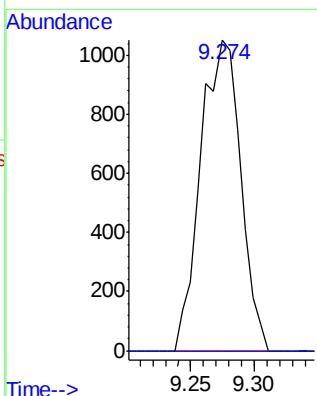
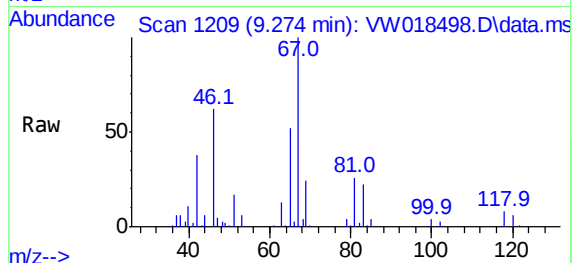




#40
1,2-Dichloropropane
Concen: 5.74 ug/L
RT: 9.274 min Scan# 1209
Delta R.T. -0.092 min
Lab File: VW018498.D
Acq: 30 Mar 2021 10:54

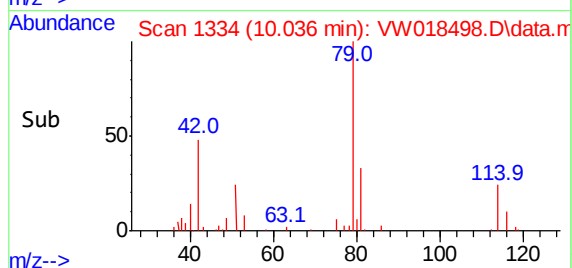
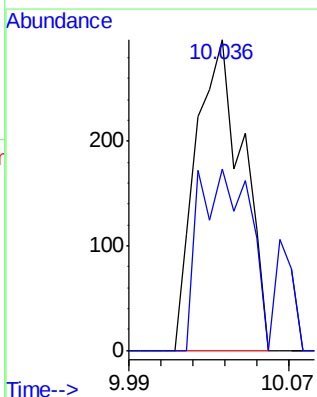
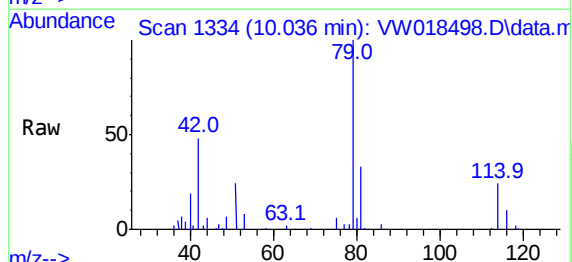
Instrument :
MSVOA_W
ClientSampleId :
BG3Q2RE

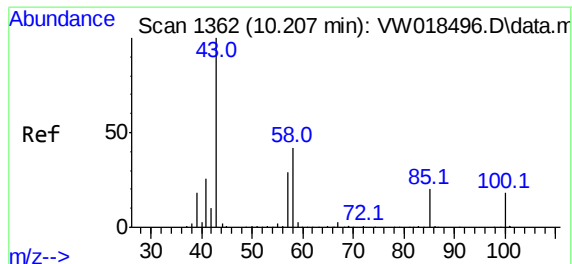
Tgt Ion: 63 Resp: 2263
Ion Ratio Lower Upper
63 100
112 0.0 4.2 6.4#



#42
cis-1,3-Dichloropropene
Concen: 0.76 ug/L
RT: 10.036 min Scan# 1334
Delta R.T. -0.037 min
Lab File: VW018498.D
Acq: 30 Mar 2021 10:54

Tgt Ion: 75 Resp: 504
Ion Ratio Lower Upper
75 100
77 58.6 22.4 41.6#



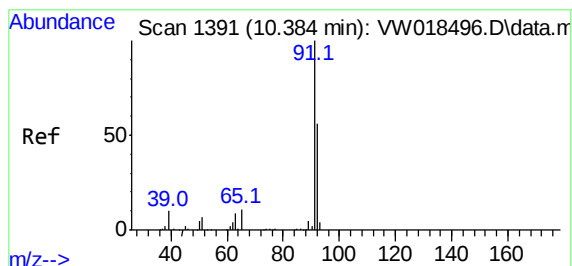
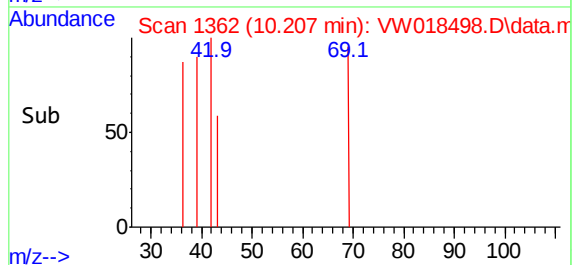
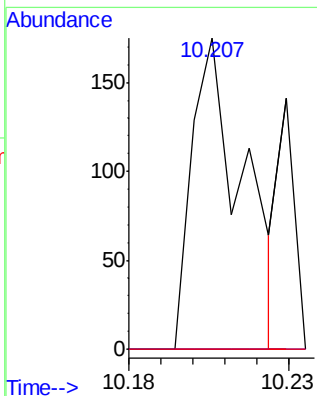
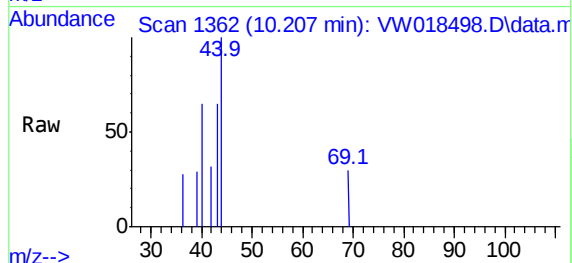


#43
4-Methyl-2-pentanone
Concen: 0.86 ug/L
RT: 10.207 min Scan# 1362
Delta R.T. -0.000 min
Lab File: VW018498.D
Acq: 30 Mar 2021 10:54

Instrument :
MSVOA_W
ClientSampleId :
BG3Q2RE

Tgt Ion: 43 Resp: 204

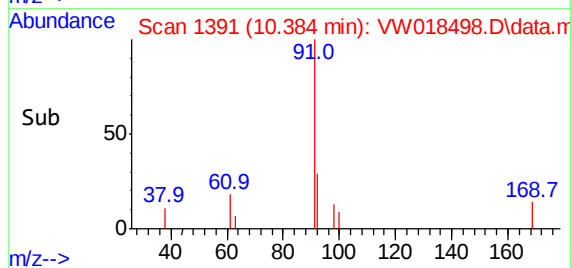
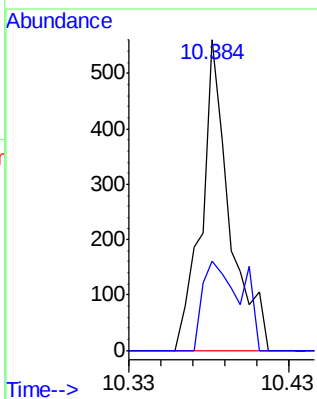
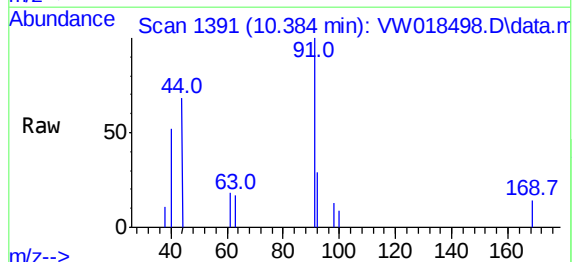
Ion	Ratio	Lower	Upper
43	100		
58	0.0	34.8	52.2#
100	0.0	15.9	23.9#

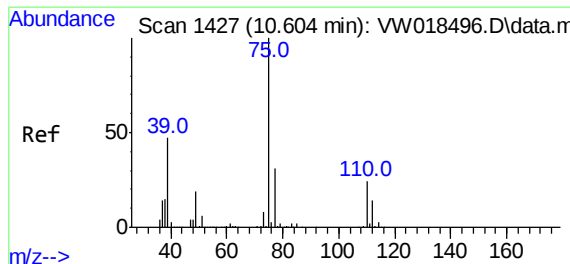


#44
Toluene
Concen: 0.38 ug/L
RT: 10.384 min Scan# 1391
Delta R.T. -0.000 min
Lab File: VW018498.D
Acq: 30 Mar 2021 10:54

Tgt Ion: 91 Resp: 705

Ion	Ratio	Lower	Upper
91	100		
92	28.9	42.3	78.5#

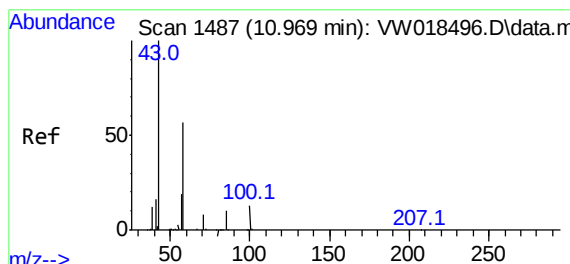
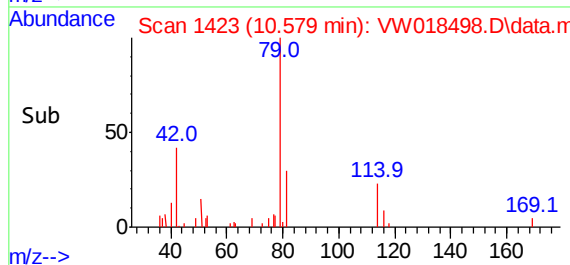
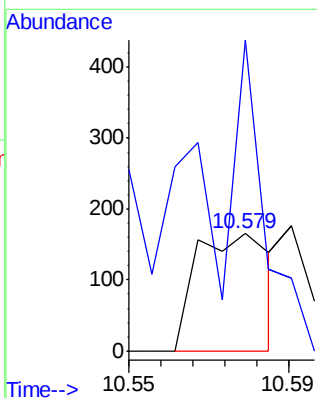
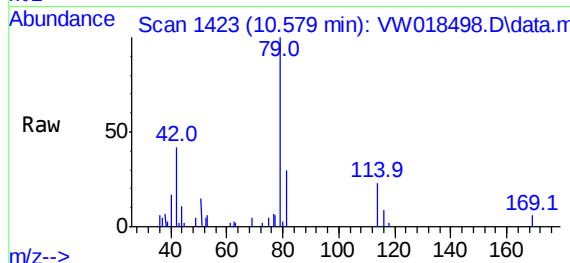




#45
trans-1,3-Dichloropropene
Concen: 0.37 ug/L
RT: 10.579 min Scan# 1423
Delta R.T. -0.025 min
Lab File: VW018498.D
Acq: 30 Mar 2021 10:54

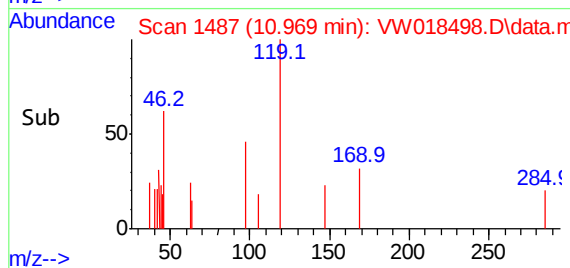
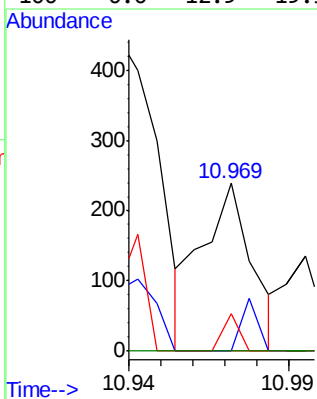
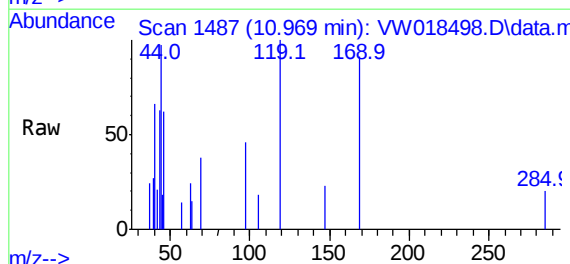
Instrument :
MSVOA_W
ClientSampled :
BG3Q2RE

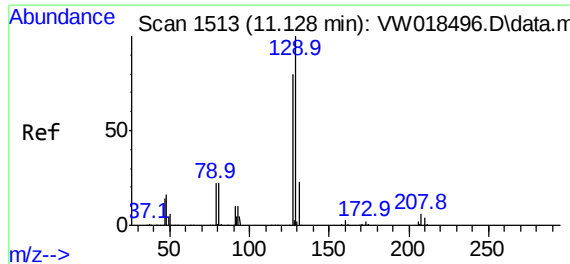
Tgt Ion: 75 Resp: 220
Ion Ratio Lower Upper
75 100
77 265.5 22.6 42.0#



#49
2-Hexanone
Concen: 1.63 ug/L
RT: 10.969 min Scan# 1487
Delta R.T. -0.000 min
Lab File: VW018498.D
Acq: 30 Mar 2021 10:54

Tgt Ion: 43 Resp: 273
Ion Ratio Lower Upper
43 100
58 0.0 47.3 70.9#
57 22.3 17.3 25.9
100 0.0 12.9 19.3#

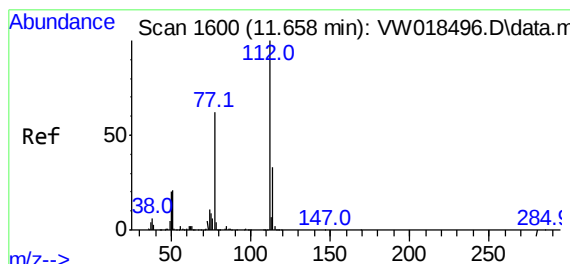
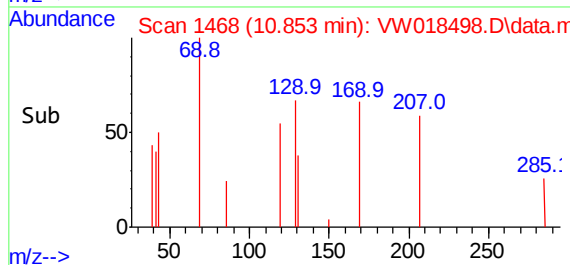
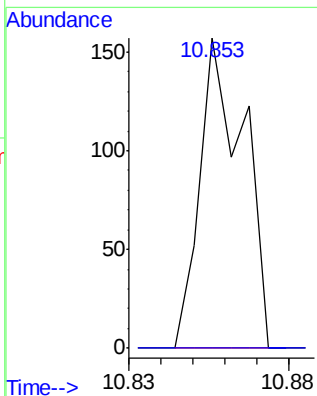
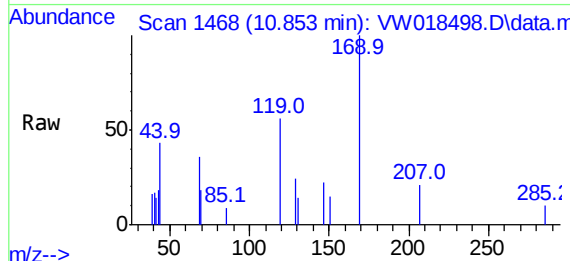




#50
Dibromochloromethane
Concen: 0.42 ug/L
RT: 10.853 min Scan# 1468
Delta R.T. -0.275 min
Lab File: VW018498.D
Acq: 30 Mar 2021 10:54

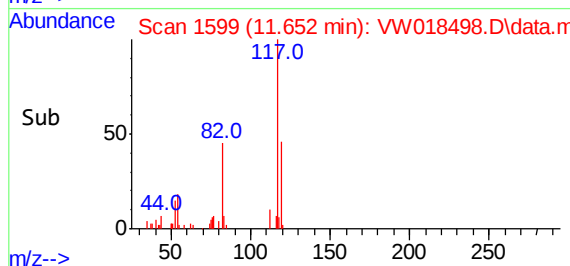
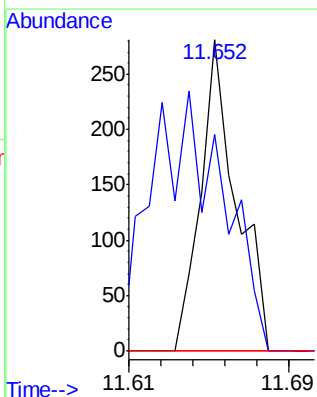
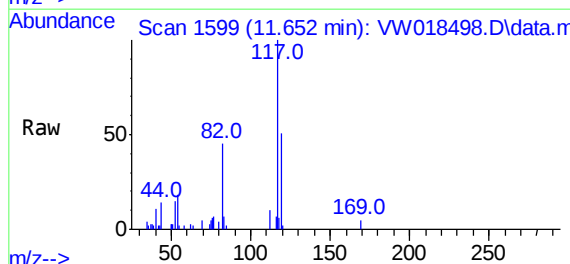
Instrument :
MSVOA_W
ClientSampleId :
BG3Q2RE

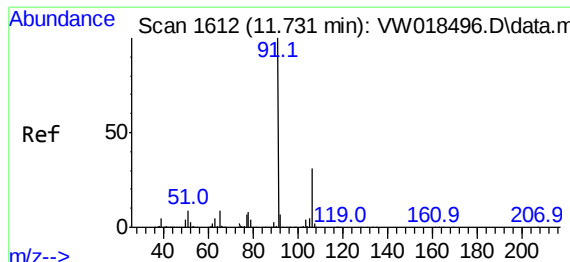
Tgt Ion:129 Resp: 157
Ion Ratio Lower Upper
129 100
127 0.0 58.0 107.6#



#52
Chlorobenzene
Concen: 0.27 ug/L
RT: 11.652 min Scan# 1599
Delta R.T. -0.006 min
Lab File: VW018498.D
Acq: 30 Mar 2021 10:54

Tgt Ion:112 Resp: 319
Ion Ratio Lower Upper
112 100
77 69.8 45.4 68.2#
114 0.0 22.5 41.9#

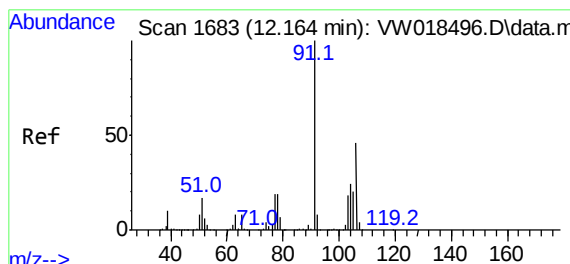
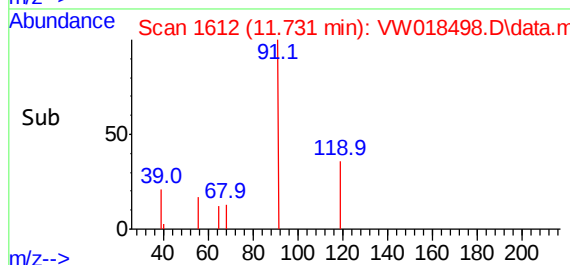
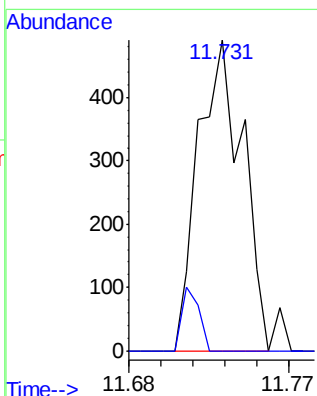
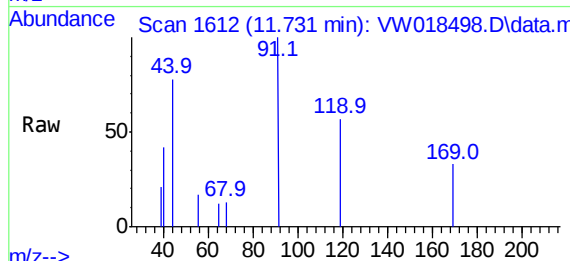




#53
Ethylbenzene
Concen: 0.38 ug/L
RT: 11.731 min Scan# 1612
Delta R.T. -0.000 min
Lab File: VW018498.D
Acq: 30 Mar 2021 10:54

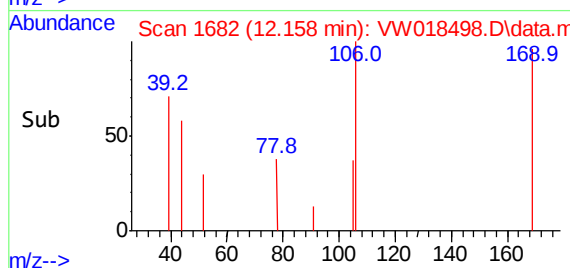
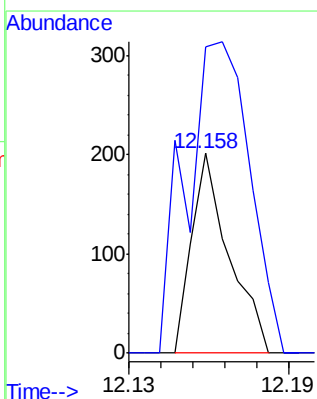
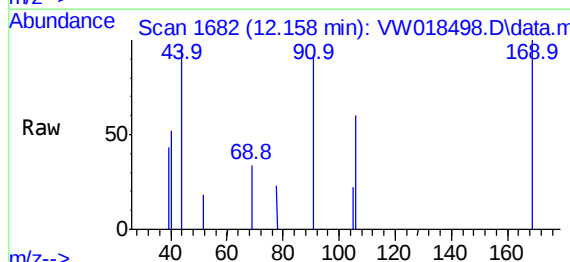
Instrument :
MSVOA_W
ClientSampleId :
BG3Q2RE

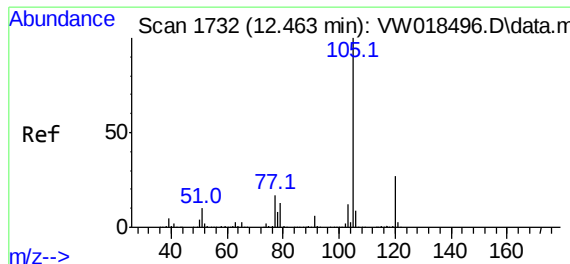
Tgt Ion: 91 Resp: 783
Ion Ratio Lower Upper
91 100
106 0.0 21.7 40.3#



#55
o-xylene
Concen: 0.27 ug/L
RT: 12.158 min Scan# 1682
Delta R.T. -0.006 min
Lab File: VW018498.D
Acq: 30 Mar 2021 10:54

Tgt Ion: 106 Resp: 202
Ion Ratio Lower Upper
106 100
91 153.7 154.3 286.5#

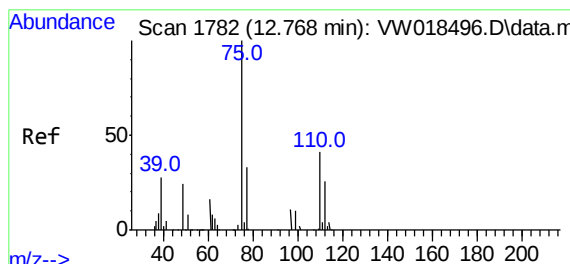
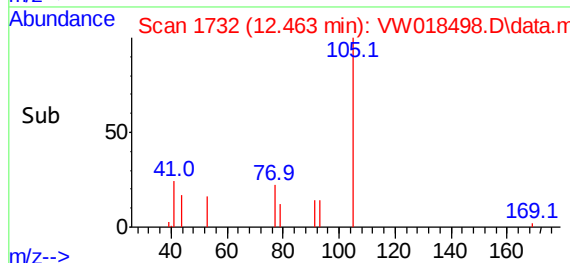
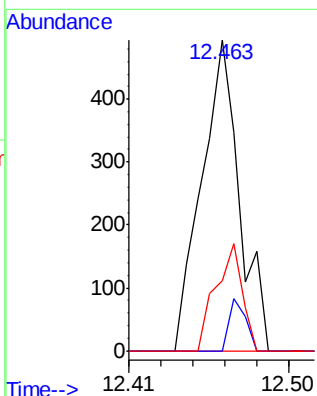
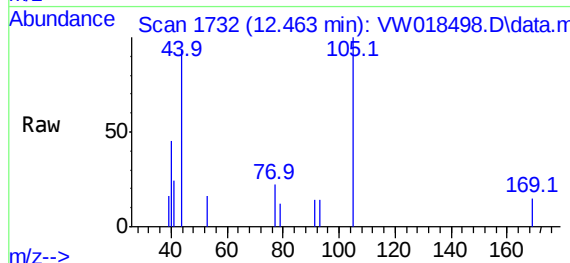




#57
Isopropylbenzene
Concen: 0.33 ug/L
RT: 12.463 min Scan# 1732
Delta R.T. -0.000 min
Lab File: VW018498.D
Acq: 30 Mar 2021 10:54

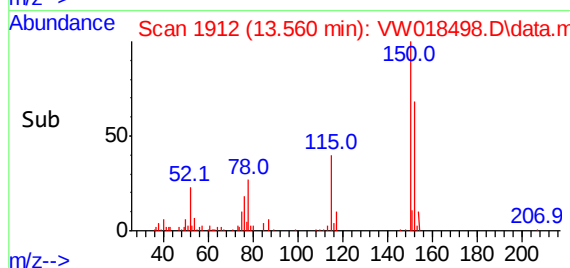
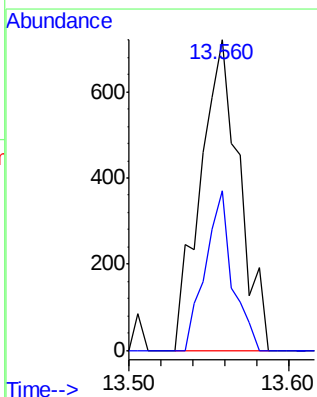
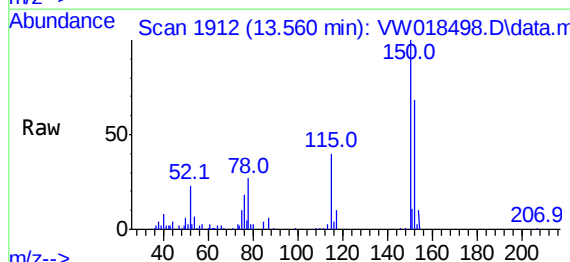
Instrument :
MSVOA_W
ClientSampleId :
BG3Q2RE

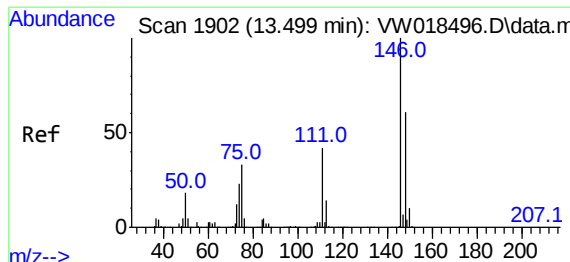
Tgt Ion:	105	Resp:	668
Ion	Ratio	Lower	Upper
105	100		
120	7.5	20.9	31.3#
77	24.1	13.2	19.8#



#59
1,2,3-Trichloropropane
Concen: 4.45 ug/L
RT: 13.560 min Scan# 1912
Delta R.T. 0.792 min
Lab File: VW018498.D
Acq: 30 Mar 2021 10:54

Tgt Ion:	75	Resp:	1280
Ion	Ratio	Lower	Upper
75	100		
77	35.4	25.6	38.4

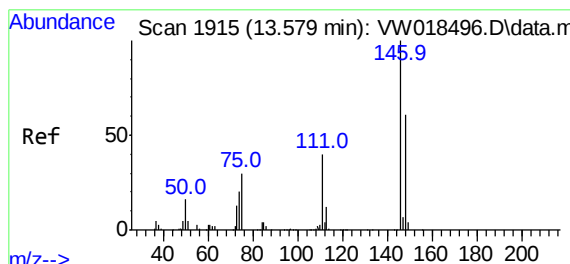
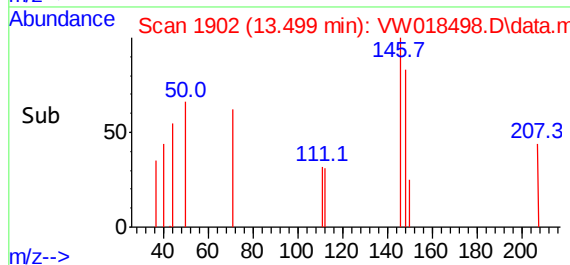
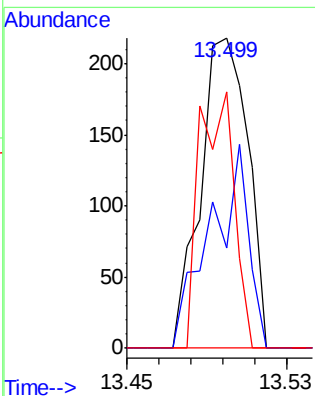
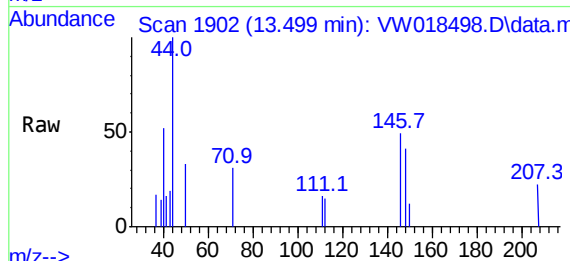




#63
1,3-Dichlorobenzene
Concen: 0.68 ug/L
RT: 13.499 min Scan# 1902
Delta R.T. -0.000 min
Lab File: VW018498.D
Acq: 30 Mar 2021 10:54

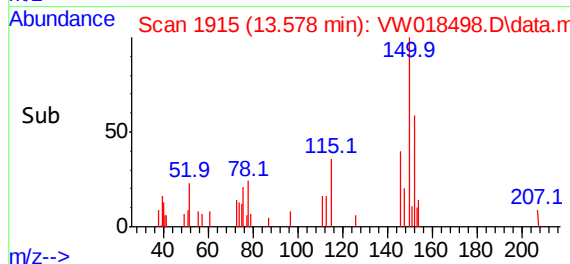
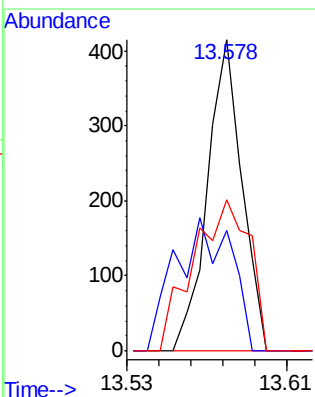
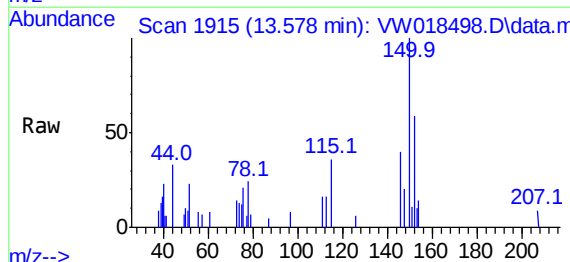
Instrument :
MSVOA_W
ClientSampleID :
BG3Q2RE

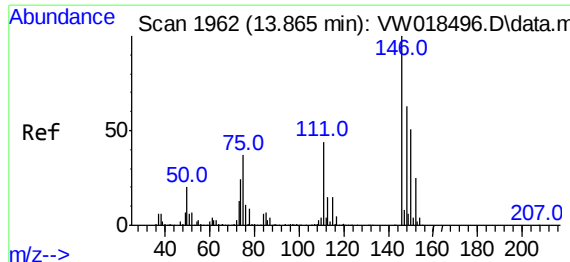
Tgt Ion:146 Resp: 331
Ion Ratio Lower Upper
146 100
111 32.1 27.5 51.1
148 82.6 43.0 80.0#



#64
1,4-Dichlorobenzene
Concen: 0.93 ug/L
RT: 13.578 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VW018498.D
Acq: 30 Mar 2021 10:54

Tgt Ion:146 Resp: 457
Ion Ratio Lower Upper
146 100
111 38.8 28.3 52.5
148 48.7 47.3 87.9



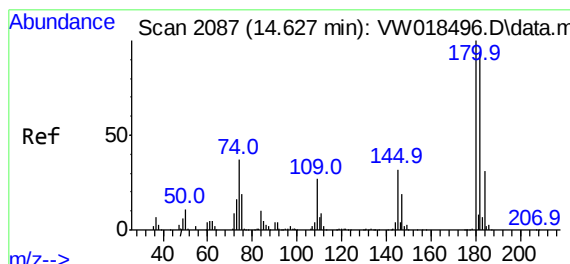
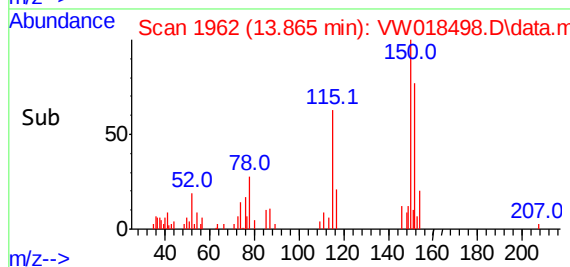
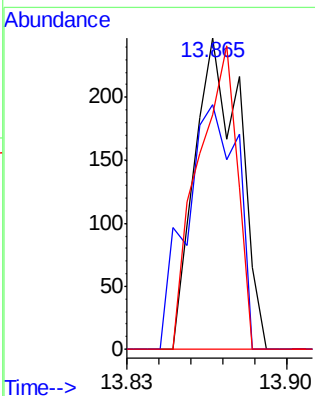
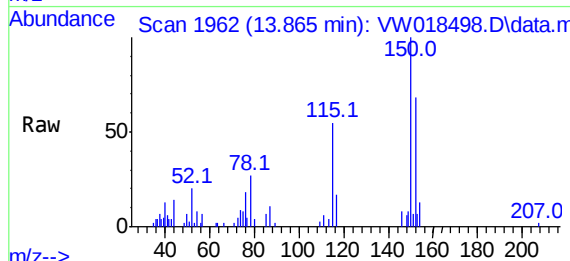


#65
1,2-Dichlorobenzene
Concen: 0.82 ug/L
RT: 13.865 min Scan# 1962
Delta R.T. -0.000 min
Lab File: VW018498.D
Acq: 30 Mar 2021 10:54

Instrument :
MSVOA_W
ClientSampleId :
BG3Q2RE

Tgt Ion:146 Resp: 358

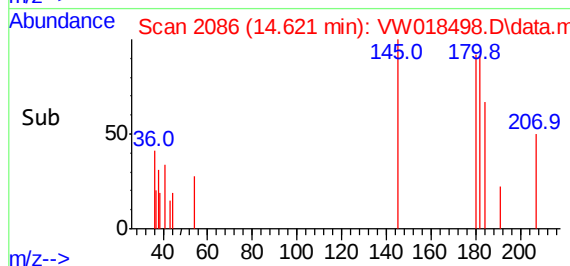
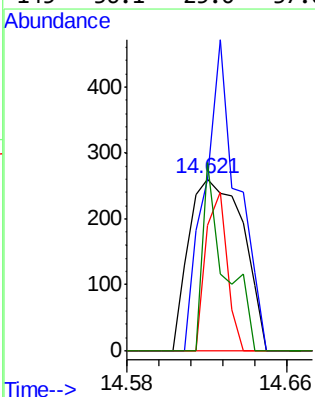
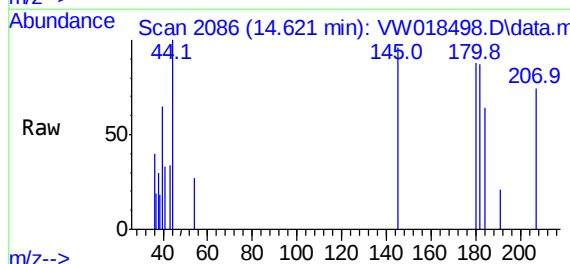
Ion	Ratio	Lower	Upper
146	100		
111	78.5	36.0	54.0#
148	75.3	50.2	75.4

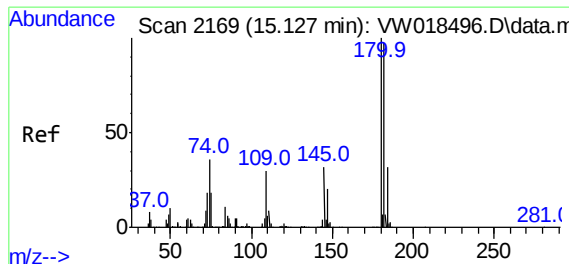


#67
1,3,5-Trichlorobenzene
Concen: 1.45 ug/L
RT: 14.621 min Scan# 2086
Delta R.T. -0.006 min
Lab File: VW018498.D
Acq: 30 Mar 2021 10:54

Tgt Ion:180 Resp: 509

Ion	Ratio	Lower	Upper
180	100		
182	109.2	71.8	107.8#
184	35.4	23.5	35.3#
145	36.1	25.0	37.6

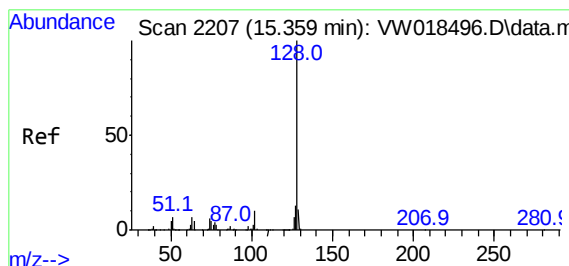
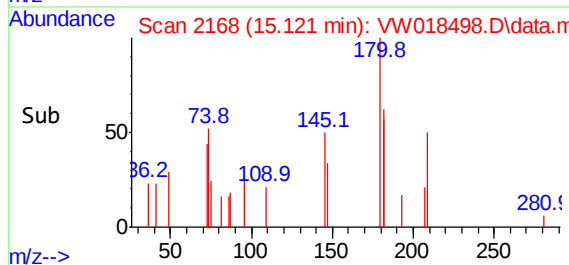
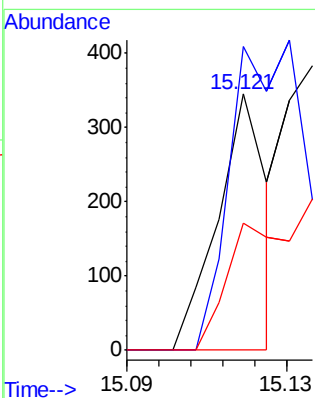
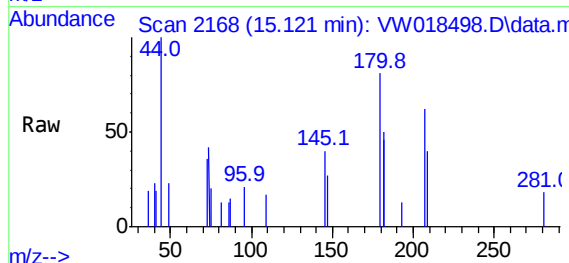




#68
 1,2,4-trichlorobenzene
 Concen: 1.02 ug/L
 RT: 15.121 min Scan# 2168
 Delta R.T. -0.006 min
 Lab File: VW018498.D
 Acq: 30 Mar 2021 10:54

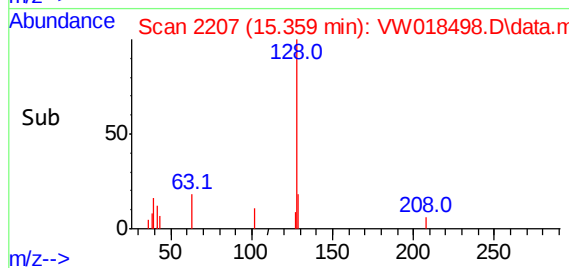
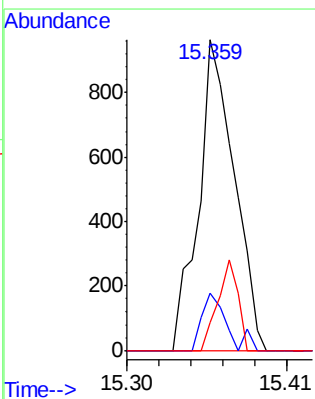
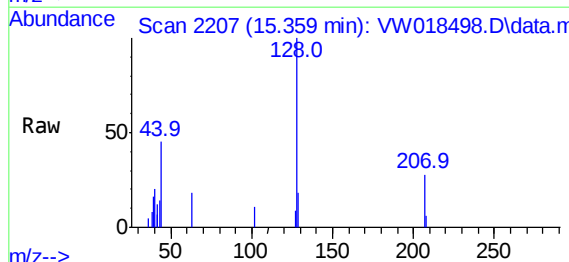
Instrument :
 MSVOA_W
 ClientSampleId :
 BG3Q2RE

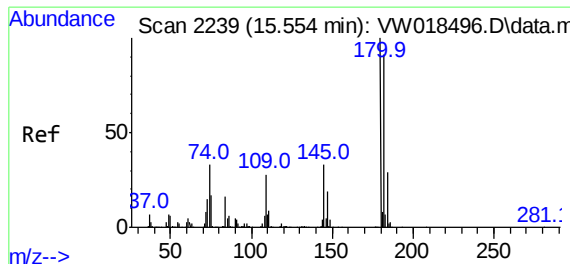
Tgt Ion:	180	Resp:	305
Ion	Ratio	Lower	Upper
180	100		
182	0.0	70.2	105.4#
145	63.9	24.9	37.3#



#69
 Naphthalene
 Concen: 2.52 ug/L
 RT: 15.359 min Scan# 2207
 Delta R.T. -0.000 min
 Lab File: VW018498.D
 Acq: 30 Mar 2021 10:54

Tgt Ion:	128	Resp:	1565
Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.1	13.7
127	16.7	10.7	16.1#





#70
 1,2,3-Trichlorobenzene
 Concen: 1.51 ug/L
 RT: 15.548 min Scan# 2238
 Delta R.T. -0.006 min
 Lab File: VW018498.D
 Acq: 30 Mar 2021 10:54

Instrument :
 MSVOA_W
 ClientSampleId :
 BG3Q2RE

Tgt Ion:180 Resp: 393

Ion	Ratio	Lower	Upper
180	100		
182	64.9	76.5	114.7#
145	48.6	27.7	41.5#

