

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW031623\
 Data File : VW025393.D
 Acq On : 16 Mar 2023 13:54
 Operator : SY/MD
 Sample : 01927-03
 Misc : 5.00g/10mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 DCAP7

Quant Time: Mar 17 01:36:26 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM030623SMA.M
 Quant Title : SFAM01.0
 QLast Update : Fri Mar 17 01:35:38 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	834900	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	731070	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	358158	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.363	65	285628	20.576	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	82.320%
7) Chloroethane-d5	2.899	69	208686	20.892	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	83.560%
11) 1,1-Dichloroethene-d2	4.021	63	558571	20.833	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	83.320%
21) 2-Butanone-d5	7.081	46	140830	41.330	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	82.660%
24) Chloroform-d	7.648	84	545683	22.672	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	90.680%
26) 1,2-Dichloroethane-d4	8.307	65	287917	22.287	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	89.160%
32) Benzene-d6	8.276	84	1127630	22.574	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	90.280%
36) 1,2-Dichloropropane-d6	9.276	67	345155	22.335	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	89.320%
41) Toluene-d8	10.325	98	972017	22.070	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	88.280%
43) trans-1,3-Dichloroprop...	10.575	79	130847	21.263	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	85.040%
47) 2-Hexanone-d5	10.922	63	87946	39.576	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	79.160%
56) 1,1,2,2-Tetrachloroeth...	12.690	84	238883	21.100	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	84.400%
66) 1,2-Dichlorobenzene-d4	13.848	152	296524	22.263	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	89.040%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.021	85	100259	10.508	ug/L	98
3) Chloromethane	2.222	50	174002	15.334	ug/L	99
5) Vinyl chloride	2.375	62	389088	30.349	ug/L	97
6) Bromomethane	2.789	94	96908	14.178	ug/L	98
8) Chloroethane	2.936	64	77914	10.574	ug/L	97
9) Trichlorofluoromethane	3.271	101	122002	10.995	ug/L	97
10) 1,1,2-Trichloro-1,2,2-...	4.076	101	257054	23.887	ug/L	97
12) 1,1-Dichloroethene	4.045	96	194800	18.710	ug/L	86
15) Methyl Acetate	4.673	43	149607	24.346	ug/L	98
16) Methylene chloride	4.917	84	276264	23.763	ug/L	96
18) Methyl tert-butyl Ether	5.429	73	708952	43.147	ug/L	99
22) 2-Butanone	7.167	43	412250	97.290	ug/L	98
25) Chloroform	7.679	83	458765	21.592	ug/L	98
29) Cyclohexane	7.953	56	502570	24.354	ug/L	100
33) Benzene	8.325	78	2184840	46.744	ug/L	100
34) Trichloroethene	9.093	95	697563	56.862	ug/L	97
42) Toluene	10.386	91	2800458	58.029	ug/L	99
45) 1,1,2-Trichloroethane	10.788	97	173145	20.039	ug/L	99
46) Tetrachloroethene	10.861	164	100062	11.463	ug/L	98

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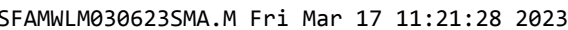
Quant Time: Mar 17 01:36:26 2023
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 Quant Title : SFAM01.0
 QLast Update : Fri Mar 17 01:35:38 2023
 Response via : Initial Calibration

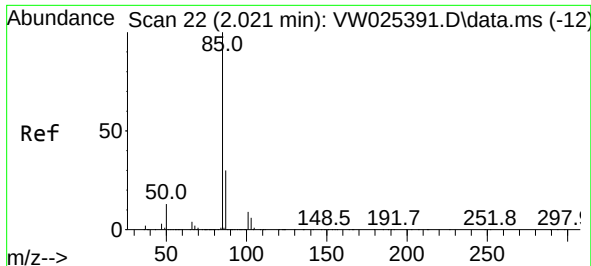
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

51) Chlorobenzene	11.654	112	415635	13.570	ug/L	99
52) Ethylbenzene	11.727	91	1535510	27.898	ug/L	99
53) m,p-Xylene	11.843	106	679866	33.490	ug/L	94
54) o-Xylene	12.166	106	537562	28.140	ug/L	93
55) Styrene	12.178	104	347236	10.644	ug/L	90
57) 1,1,2,2-Tetrachloroethane	12.714	83	124661	11.599	ug/L	100
59) Bromoform	12.349	173	62664	12.127	ug/L	97
60) Isopropylbenzene	12.464	105	1175180	22.011	ug/L	99
63) 1,2,4-Trimethylbenzene	13.251	105	1164260	27.949	ug/L	100
64) 1,3-Dichlorobenzene	13.495	146	489719	21.646	ug/L	99
65) 1,4-Dichlorobenzene	13.574	146	248907	10.726	ug/L	96
70) 1,2,4-trichlorobenzene	15.129	180	257290	20.178	ug/L	98
72) 1,2,3-Trichlorobenzene	15.549	180	348010	30.386	ug/L	99

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

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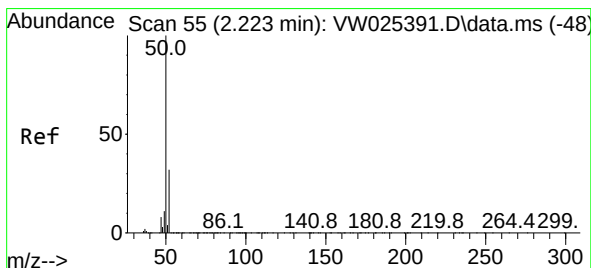
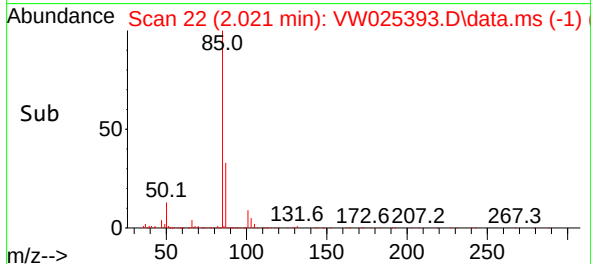
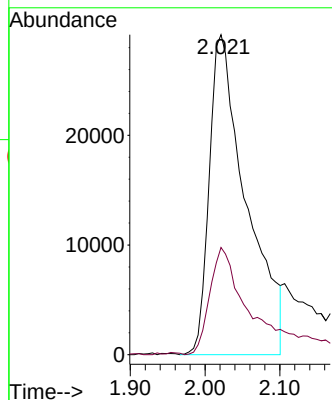
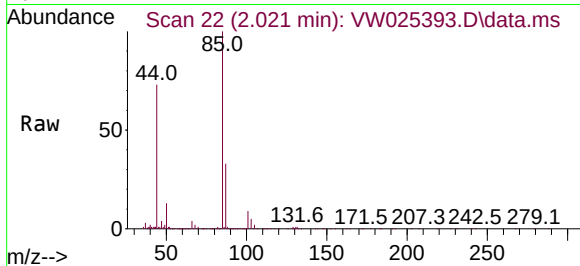




#2
Dichlorodifluoromethane
Concen: 10.508 ug/L
RT: 2.021 min Scan# 21
Delta R.T. -0.000 min
Lab File: VW025393.D
Acq: 16 Mar 2023 13:54

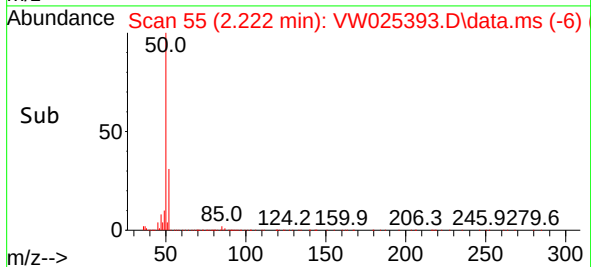
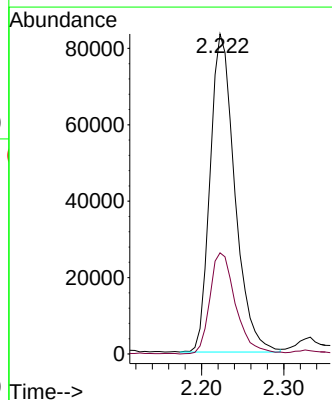
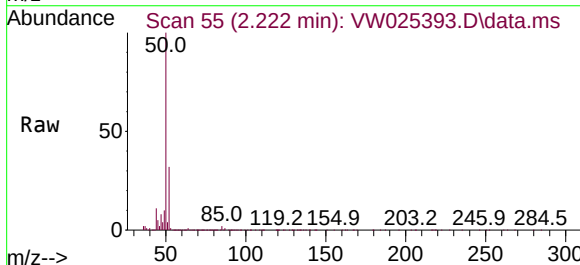
Instrument :
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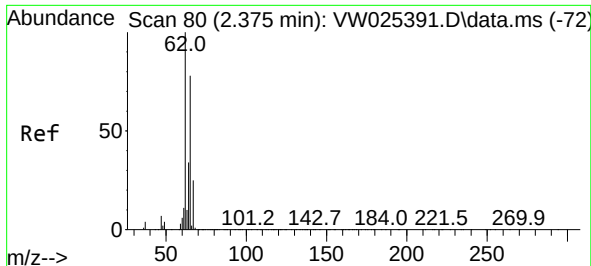
Tgt Ion: 85 Resp: 100259
Ion Ratio Lower Upper
85 100
87 26.7 20.5 30.7



#3
Chloromethane
Concen: 15.334 ug/L
RT: 2.222 min Scan# 55
Delta R.T. -0.000 min
Lab File: VW025393.D
Acq: 16 Mar 2023 13:54

Tgt Ion: 50 Resp: 174002
Ion Ratio Lower Upper
50 100
52 31.6 21.9 40.7

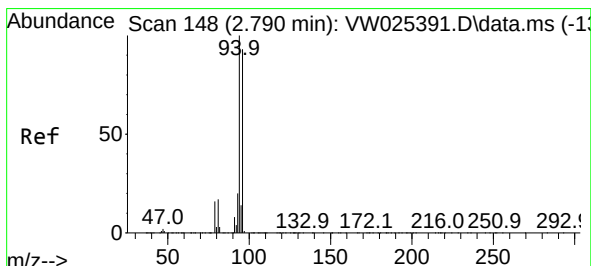
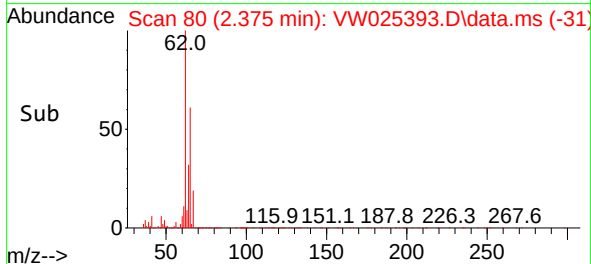
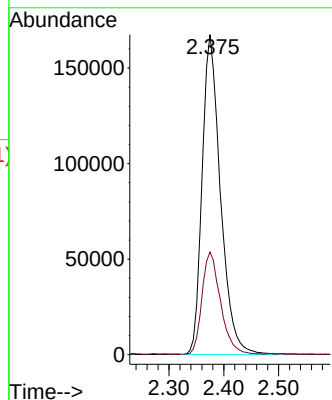
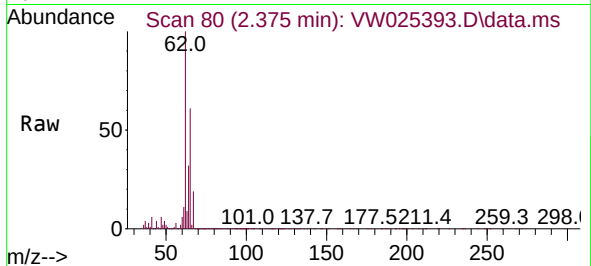




#5
 Vinyl chloride
 Concen: 30.349 ug/L
 RT: 2.375 min Scan# 80
 Delta R.T. -0.000 min
 Lab File: VW025393.D
 Acq: 16 Mar 2023 13:54

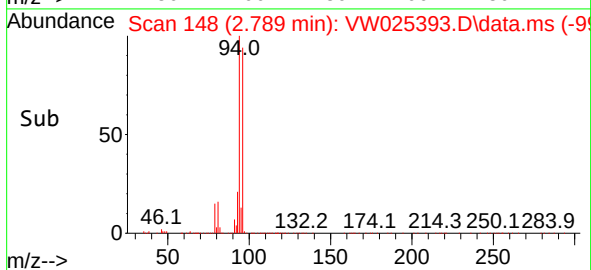
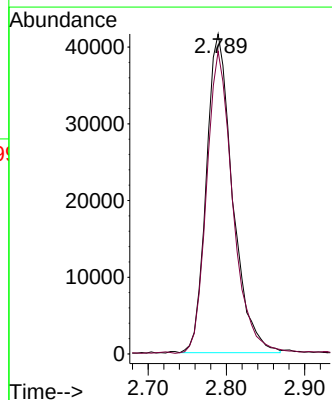
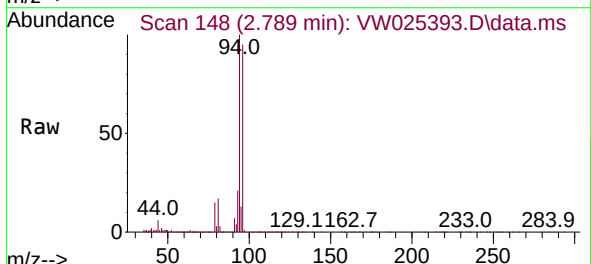
Instrument :
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 ClientSampleId :
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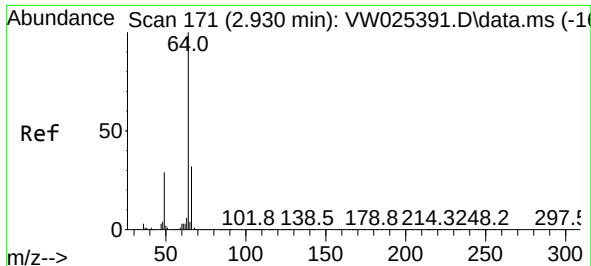
Tgt Ion: 62 Resp: 389088
 Ion Ratio Lower Upper
 62 100
 64 32.0 23.4 43.6



#6
 Bromomethane
 Concen: 14.178 ug/L
 RT: 2.789 min Scan# 148
 Delta R.T. -0.000 min
 Lab File: VW025393.D
 Acq: 16 Mar 2023 13:54

Tgt Ion: 94 Resp: 96908
 Ion Ratio Lower Upper
 94 100
 96 94.5 64.5 119.9

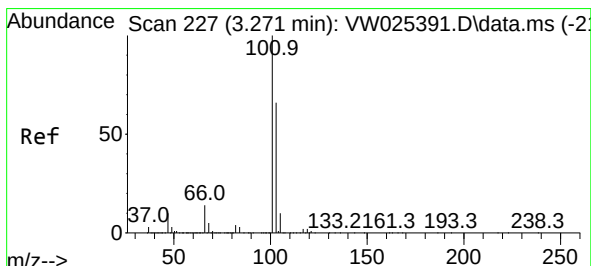
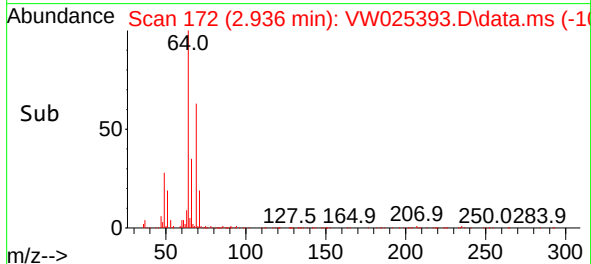
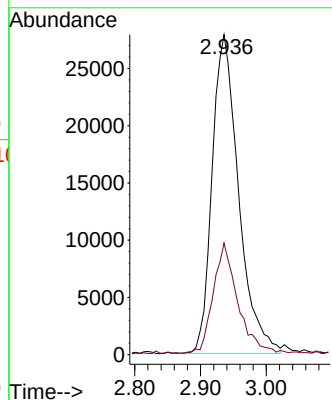
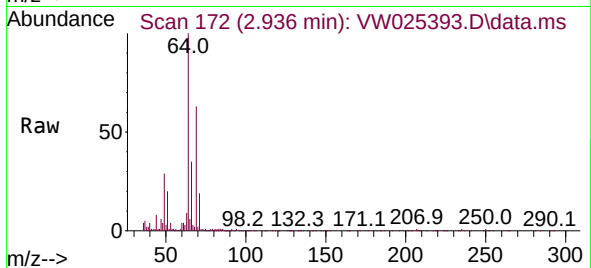




#8
Chloroethane
Concen: 10.574 ug/L
RT: 2.936 min Scan# 171
Delta R.T. 0.006 min
Lab File: VW025393.D
Acq: 16 Mar 2023 13:54

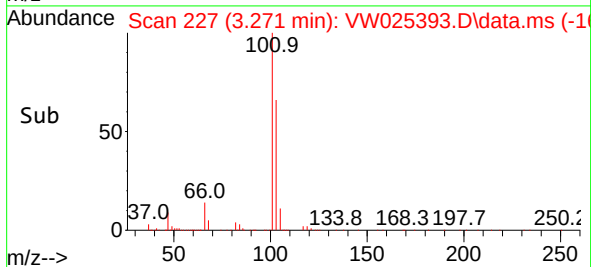
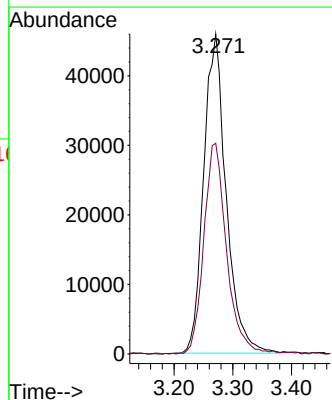
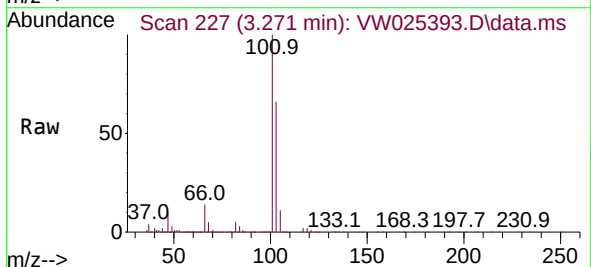
Instrument :
MSVOA_W
ClientSampleId :
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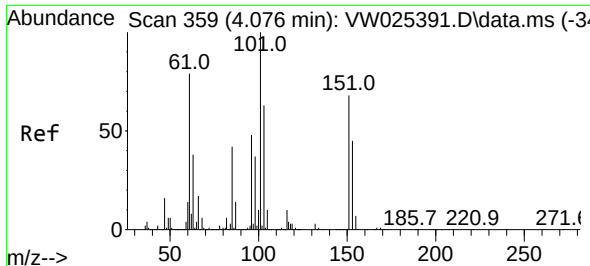
Tgt Ion: 64 Resp: 77914
Ion Ratio Lower Upper
64 100
66 34.9 23.3 43.3



#9
Trichlorofluoromethane
Concen: 10.995 ug/L
RT: 3.271 min Scan# 227
Delta R.T. -0.000 min
Lab File: VW025393.D
Acq: 16 Mar 2023 13:54

Tgt Ion: 101 Resp: 122002
Ion Ratio Lower Upper
101 100
103 66.5 51.5 77.3

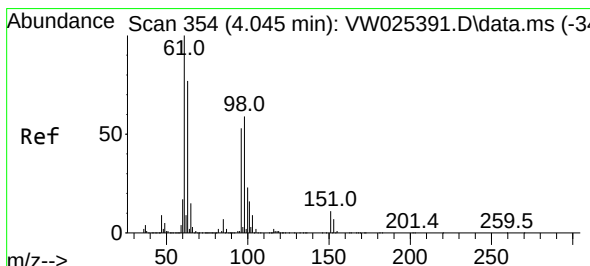
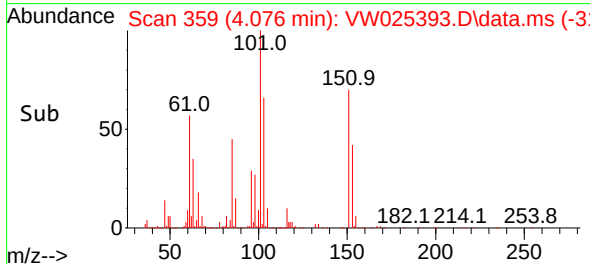
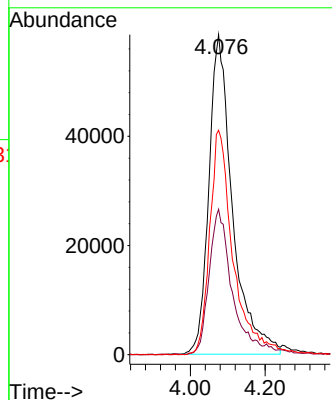
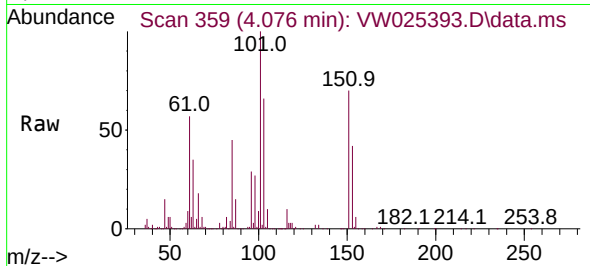




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 23.887 ug/L
 RT: 4.076 min Scan# 359
 Delta R.T. -0.000 min
 Lab File: VW025393.D
 Acq: 16 Mar 2023 13:54

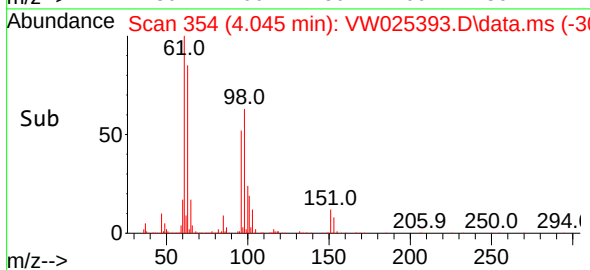
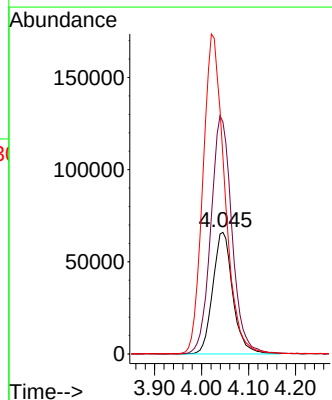
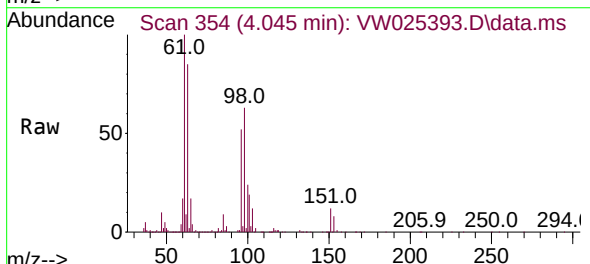
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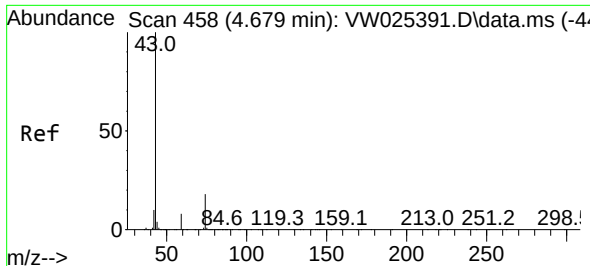
Tgt Ion:101 Resp: 257054
 Ion Ratio Lower Upper
 101 100
 85 42.2 35.8 53.8
 151 65.6 54.2 81.2



#12
 1,1-Dichloroethene
 Concen: 18.710 ug/L
 RT: 4.045 min Scan# 354
 Delta R.T. -0.000 min
 Lab File: VW025393.D
 Acq: 16 Mar 2023 13:54

Tgt Ion: 96 Resp: 194800
 Ion Ratio Lower Upper
 96 100
 61 190.7 130.7 242.7
 63 162.3 88.3 164.1

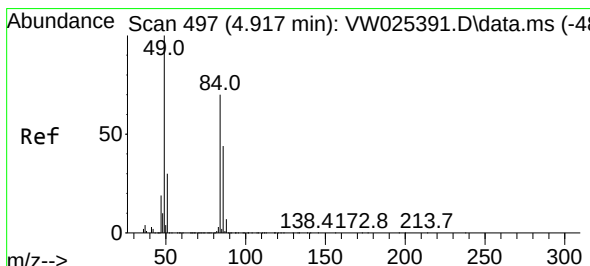
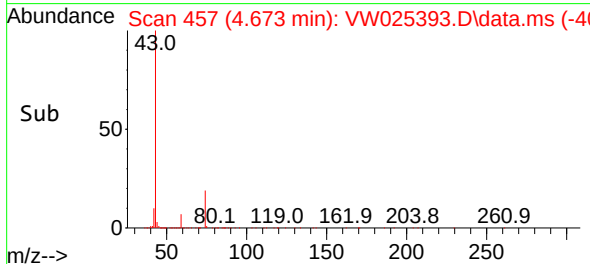
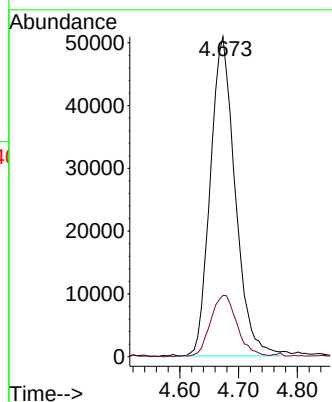
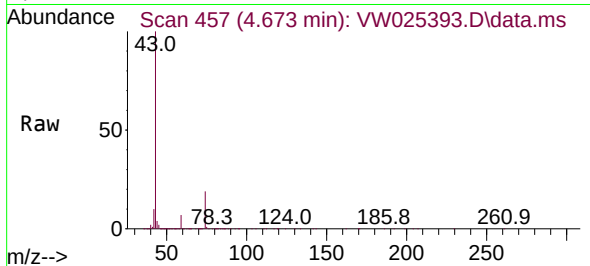




#15
Methyl Acetate
Concen: 24.346 ug/L
RT: 4.673 min Scan# 457
Delta R.T. -0.006 min
Lab File: VW025393.D
Acq: 16 Mar 2023 13:54

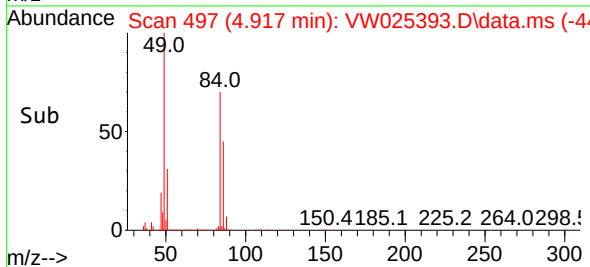
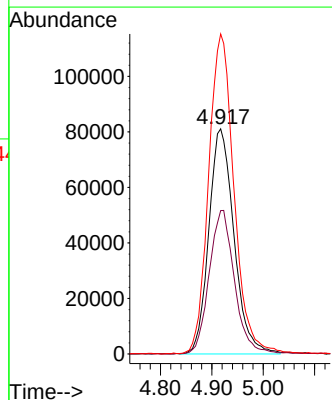
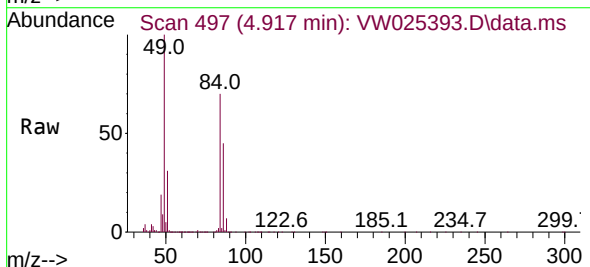
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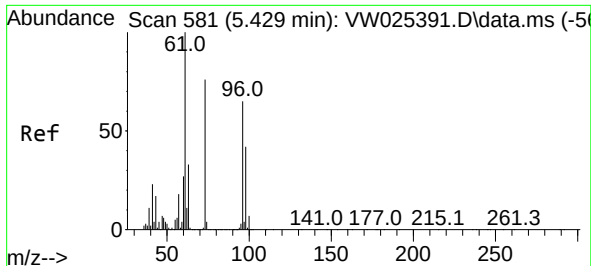
Tgt Ion: 43 Resp: 149607
Ion Ratio Lower Upper
43 100
74 20.1 17.0 25.4



#16
Methylene chloride
Concen: 23.763 ug/L
RT: 4.917 min Scan# 497
Delta R.T. -0.000 min
Lab File: VW025393.D
Acq: 16 Mar 2023 13:54

Tgt Ion: 84 Resp: 276264
Ion Ratio Lower Upper
84 100
86 63.7 45.1 83.7
49 142.2 94.7 175.9

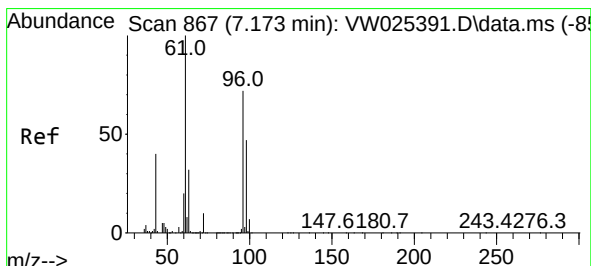
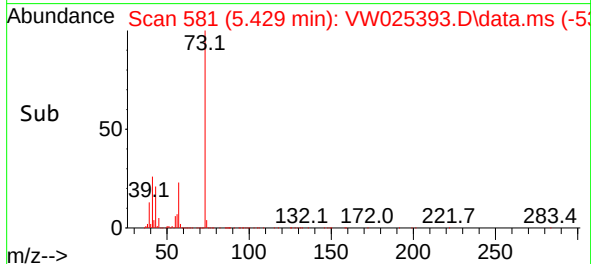
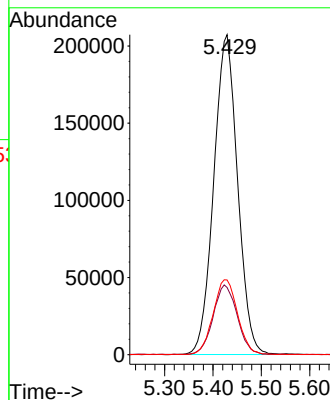
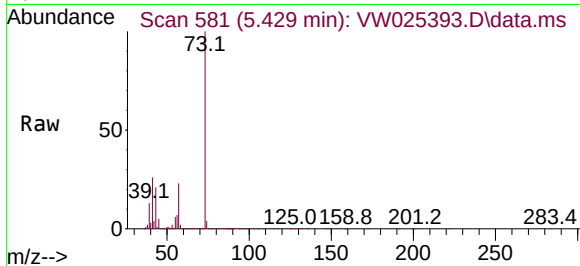




#18
Methyl tert-butyl Ether
Concen: 43.147 ug/L
RT: 5.429 min Scan# 581
Delta R.T. -0.000 min
Lab File: VW025393.D
Acq: 16 Mar 2023 13:54

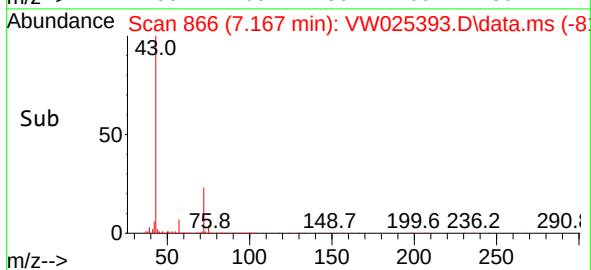
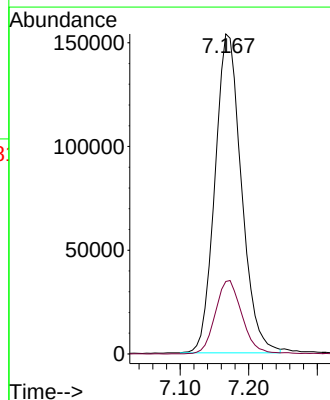
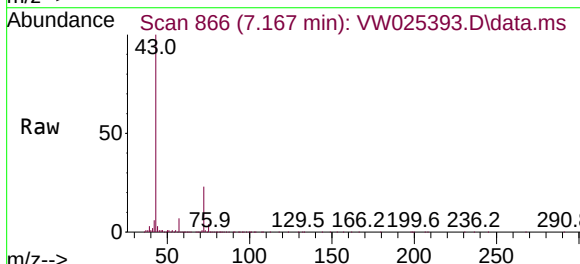
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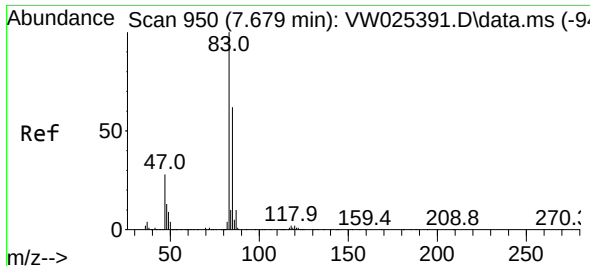
Tgt Ion: 73 Resp: 708952
Ion Ratio Lower Upper
73 100
43 21.9 17.6 26.4
57 23.9 18.6 28.0



#22
2-Butanone
Concen: 97.290 ug/L
RT: 7.167 min Scan# 866
Delta R.T. -0.006 min
Lab File: VW025393.D
Acq: 16 Mar 2023 13:54

Tgt Ion: 43 Resp: 412250
Ion Ratio Lower Upper
43 100
72 23.1 12.0 36.1

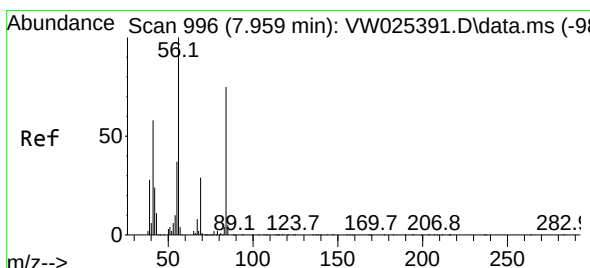
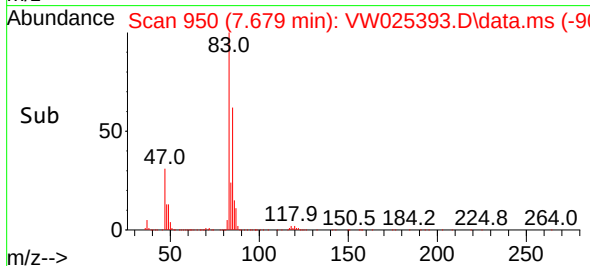
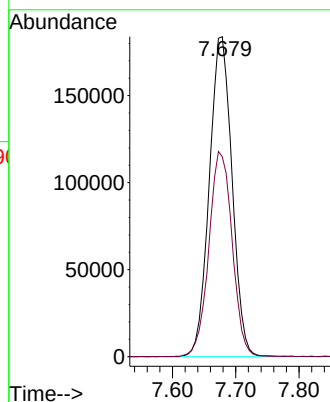
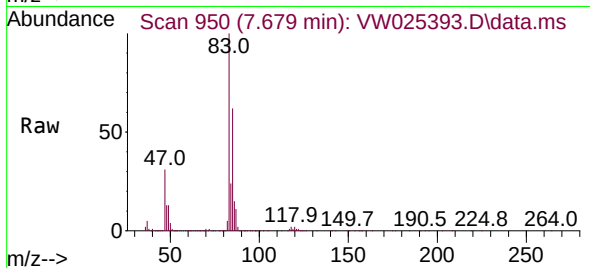




#25
Chloroform
Concen: 21.592 ug/L
RT: 7.679 min Scan# 91
Delta R.T. -0.000 min
Lab File: VW025393.D
Acq: 16 Mar 2023 13:54

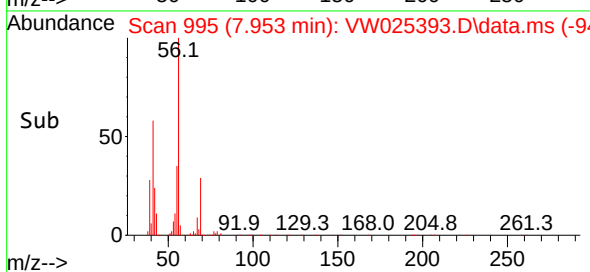
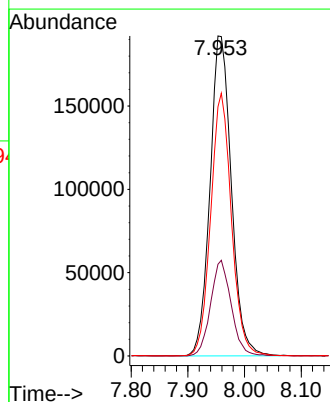
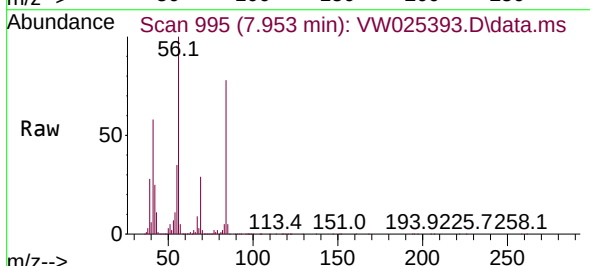
Instrument :
MSVOA_W
ClientSampleId :
DCAP7

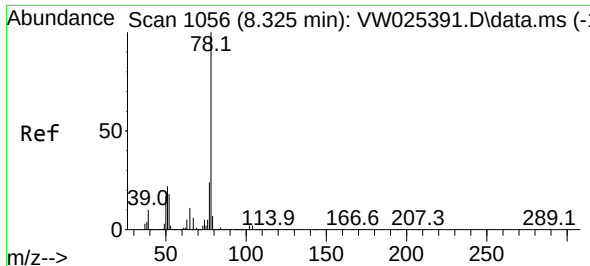
Tgt Ion: 83 Resp: 458765
Ion Ratio Lower Upper
83 100
85 62.4 44.7 82.9



#29
Cyclohexane
Concen: 24.354 ug/L
RT: 7.953 min Scan# 995
Delta R.T. -0.006 min
Lab File: VW025393.D
Acq: 16 Mar 2023 13:54

Tgt Ion: 56 Resp: 502570
Ion Ratio Lower Upper
56 100
69 28.9 23.1 34.7
84 79.7 63.9 95.9

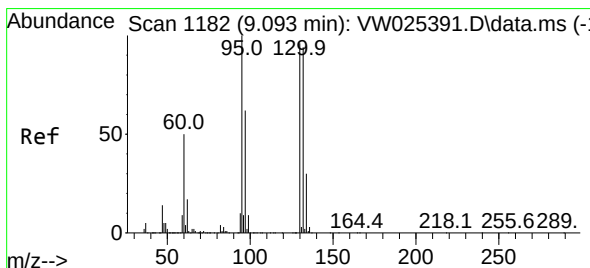
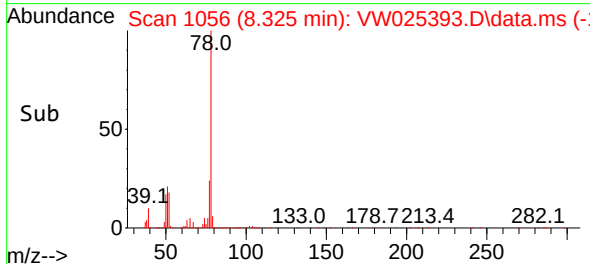
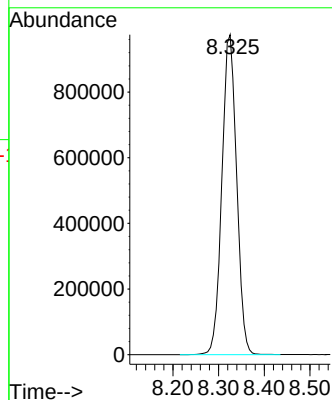
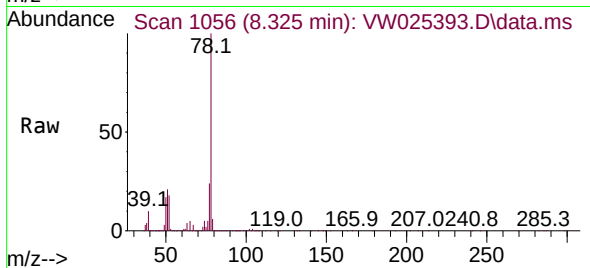




#33
Benzene
Concen: 46.744 ug/L
RT: 8.325 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VW025393.D
Acq: 16 Mar 2023 13:54

Instrument :
MSVOA_W
ClientSampleId :
DCAP7

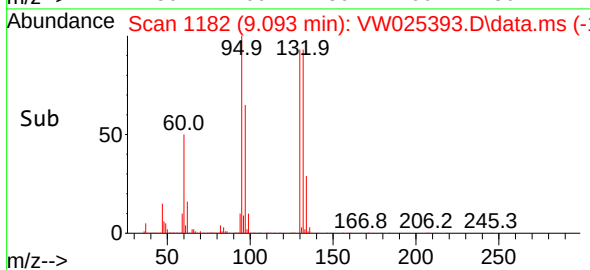
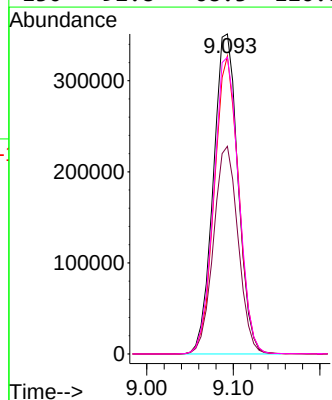
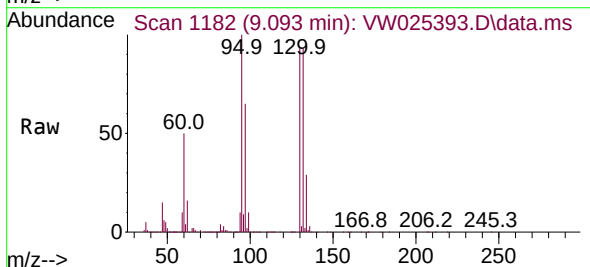
Tgt Ion: 78 Resp: 2184840

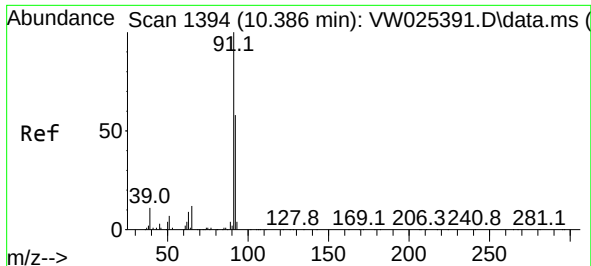


#34
Trichloroethene
Concen: 56.862 ug/L
RT: 9.093 min Scan# 1182
Delta R.T. -0.000 min
Lab File: VW025393.D
Acq: 16 Mar 2023 13:54

Tgt Ion: 95 Resp: 697563

Ion	Ratio	Lower	Upper
95	100		
97	64.9	43.8	81.4
132	93.1	65.9	122.3
130	92.8	68.3	126.8

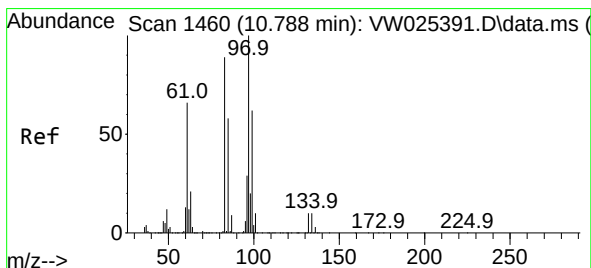
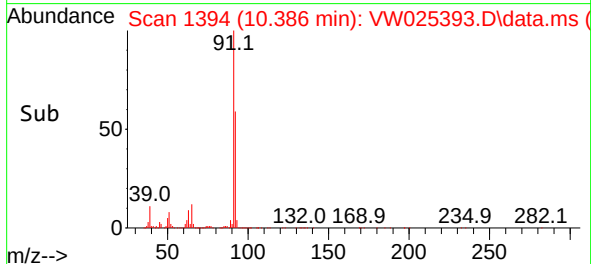
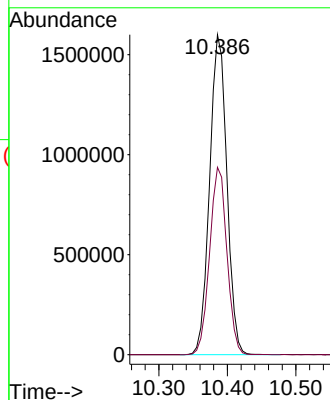
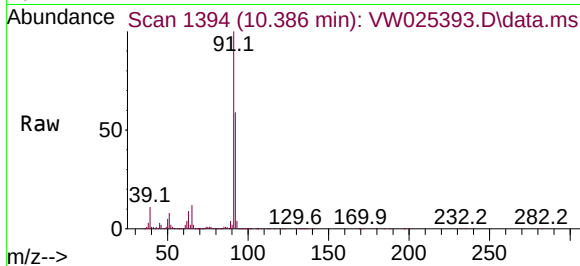




#42
Toluene
Concen: 58.029 ug/L
RT: 10.386 min Scan# 1394
Delta R.T. -0.000 min
Lab File: VW025393.D
Acq: 16 Mar 2023 13:54

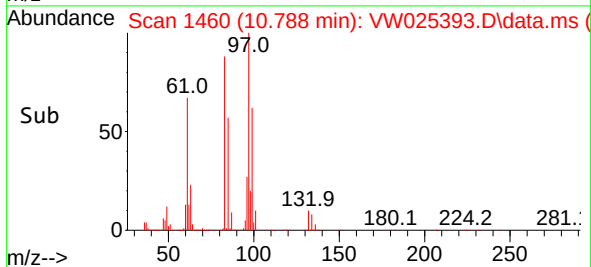
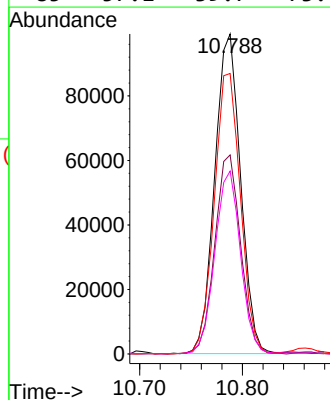
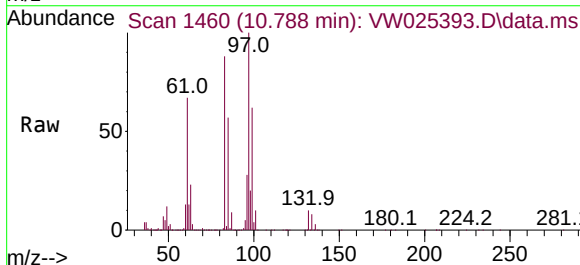
Instrument :
MSVOA_W
ClientSampleId :
DCAP7

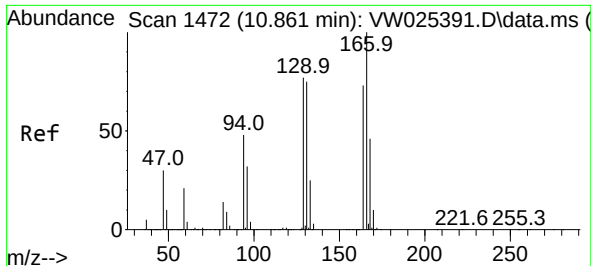
Tgt Ion: 91 Resp: 2800458
Ion Ratio Lower Upper
91 100
92 58.6 41.6 77.3



#45
1,1,2-Trichloroethane
Concen: 20.039 ug/L
RT: 10.788 min Scan# 1460
Delta R.T. -0.000 min
Lab File: VW025393.D
Acq: 16 Mar 2023 13:54

Tgt Ion: 97 Resp: 173145
Ion Ratio Lower Upper
97 100
99 62.2 42.6 79.0
83 87.7 60.5 112.3
85 57.1 39.7 73.7



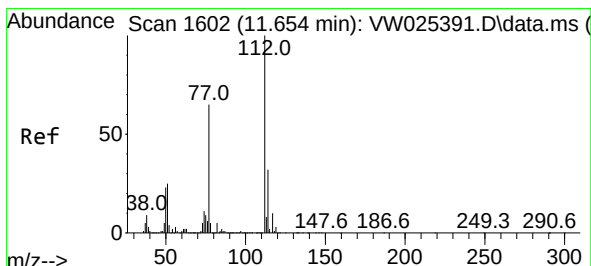
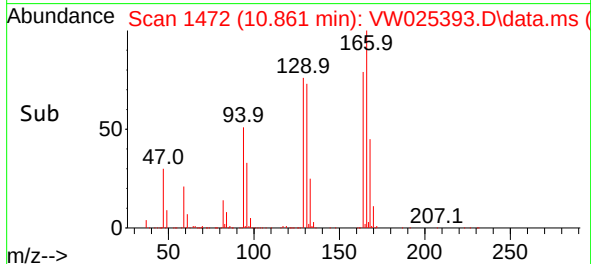
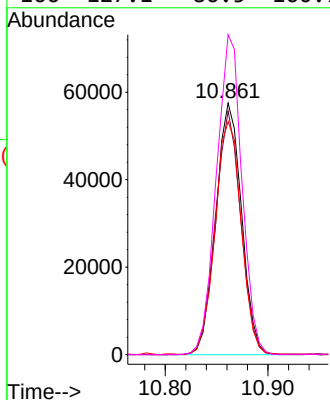
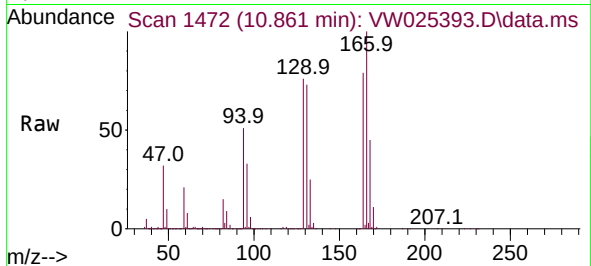


#46
Tetrachloroethene
Concen: 11.463 ug/L
RT: 10.861 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VW025393.D
Acq: 16 Mar 2023 13:54

Instrument :
MSVOA_W
ClientSampleId :
DCAP7

Tgt Ion:164 Resp: 100062

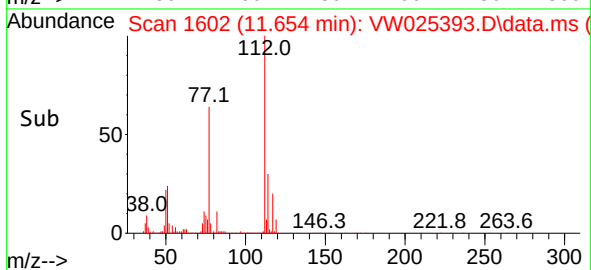
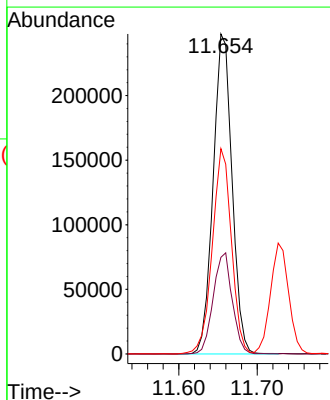
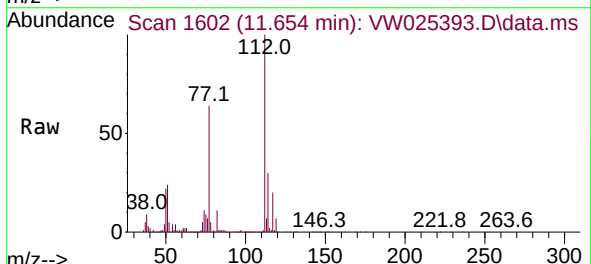
Ion	Ratio	Lower	Upper
164	100		
129	96.8	67.7	125.7
131	92.6	67.0	124.4
166	127.1	86.5	160.7

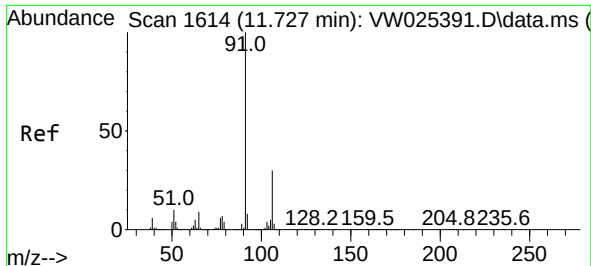


#51
Chlorobenzene
Concen: 13.570 ug/L
RT: 11.654 min Scan# 1602
Delta R.T. -0.000 min
Lab File: VW025393.D
Acq: 16 Mar 2023 13:54

Tgt Ion:112 Resp: 415635

Ion	Ratio	Lower	Upper
112	100		
114	30.2	21.9	40.7
77	64.1	51.8	77.8

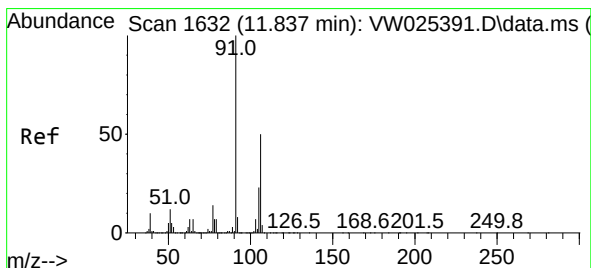
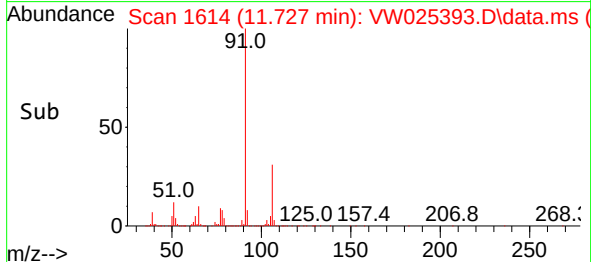
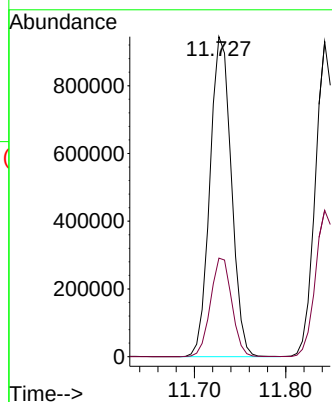
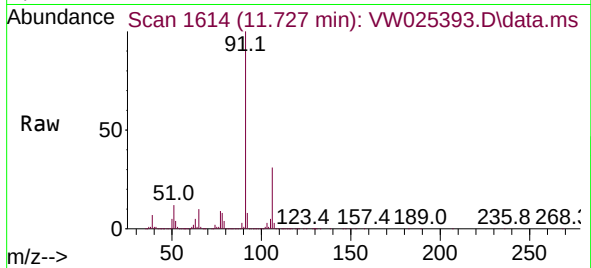




#52
Ethylbenzene
Concen: 27.898 ug/L
RT: 11.727 min Scan# 1614
Delta R.T. -0.000 min
Lab File: VW025393.D
Acq: 16 Mar 2023 13:54

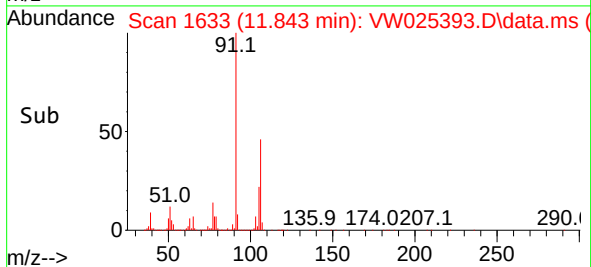
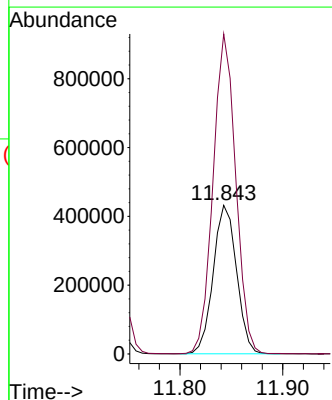
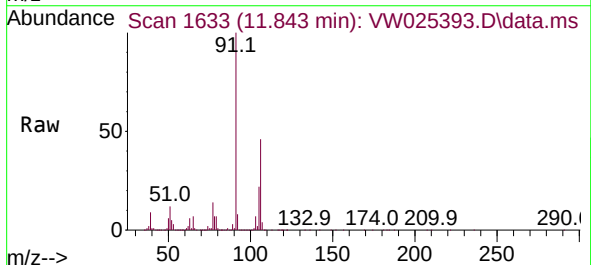
Instrument :
MSVOA_W
ClientSampleId :
DCAP7

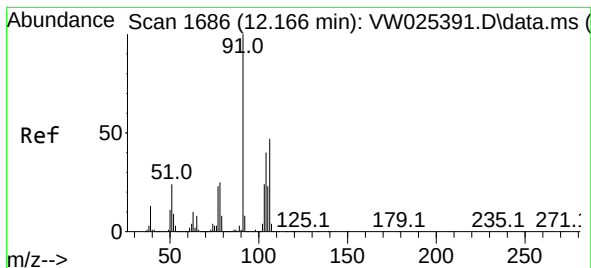
Tgt Ion: 91 Resp: 1535510
Ion Ratio Lower Upper
91 100
106 30.8 22.0 41.0



#53
m,p-Xylene
Concen: 33.490 ug/L
RT: 11.843 min Scan# 1633
Delta R.T. 0.006 min
Lab File: VW025393.D
Acq: 16 Mar 2023 13:54

Tgt Ion:106 Resp: 679866
Ion Ratio Lower Upper
106 100
91 215.2 144.2 267.8

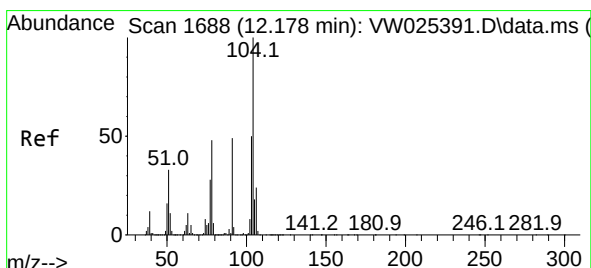
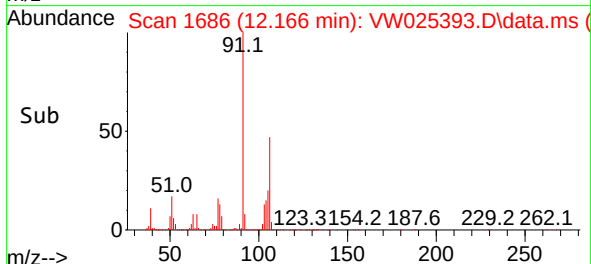
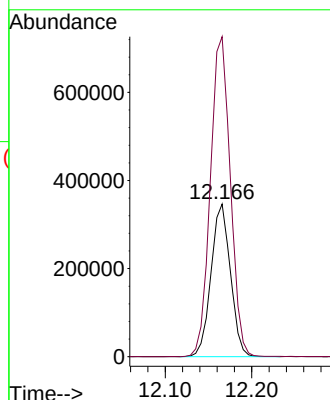
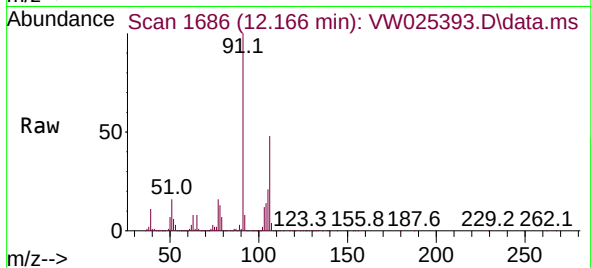




#54
o-Xylene
Concen: 28.140 ug/L
RT: 12.166 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VW025393.D
Acq: 16 Mar 2023 13:54

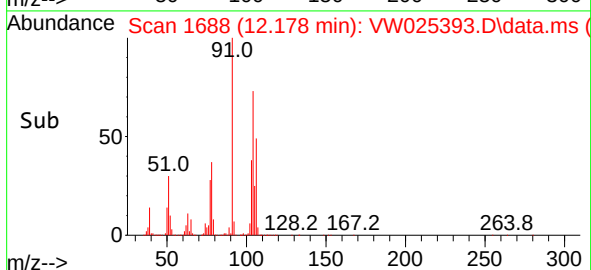
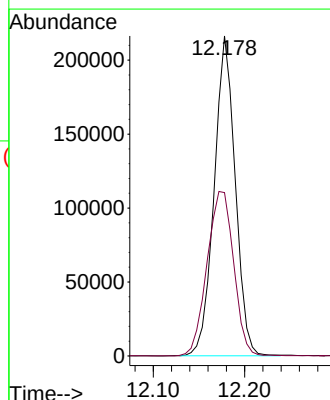
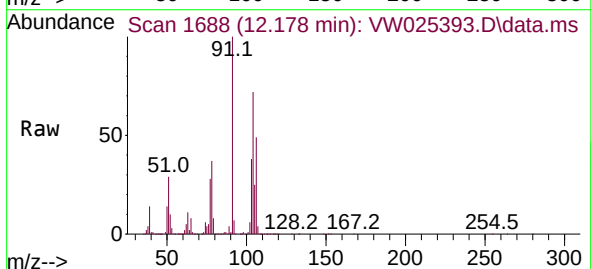
Instrument :
MSVOA_W
ClientSampleId :
DCAP7

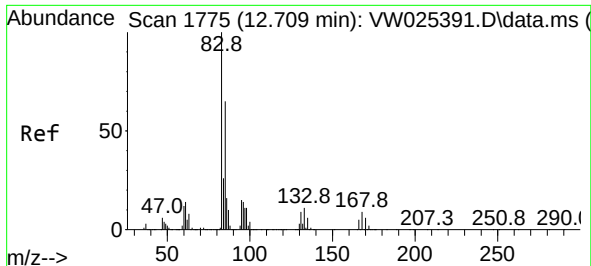
Tgt Ion:106 Resp: 537562
Ion Ratio Lower Upper
106 100
91 209.7 154.6 287.2



#55
Styrene
Concen: 10.644 ug/L
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW025393.D
Acq: 16 Mar 2023 13:54

Tgt Ion:104 Resp: 347236
Ion Ratio Lower Upper
104 100
78 51.1 31.1 57.9





#57

1,1,2,2-Tetrachloroethane

Concen: 11.599 ug/L

RT: 12.714 min Scan# 1

Delta R.T. 0.006 min

Lab File: VW025393.D

Acq: 16 Mar 2023 13:54

Instrument :

MSVOA_W

ClientSampleId :

DCAP7

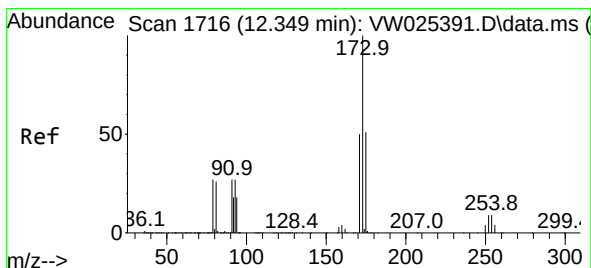
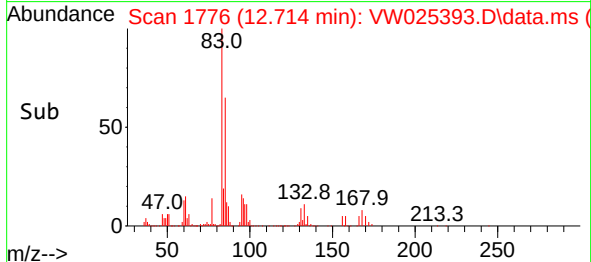
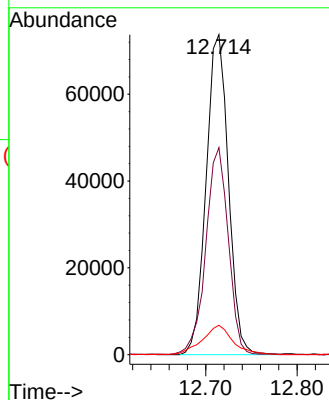
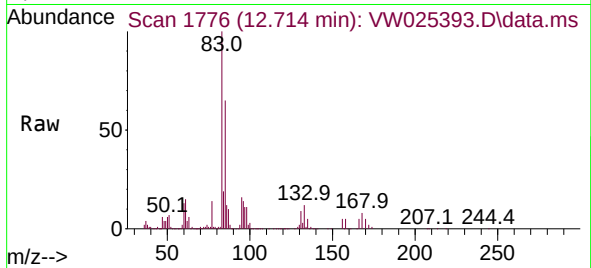
Tgt Ion: 83 Resp: 124661

Ion Ratio Lower Upper

83 100

85 64.7 45.4 84.2

131 9.2 8.0 12.0



#59

Bromoform

Concen: 12.127 ug/L

RT: 12.349 min Scan# 1716

Delta R.T. -0.000 min

Lab File: VW025393.D

Acq: 16 Mar 2023 13:54

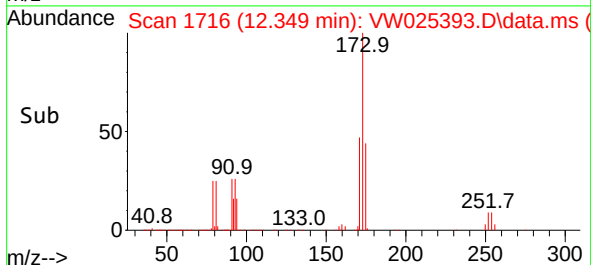
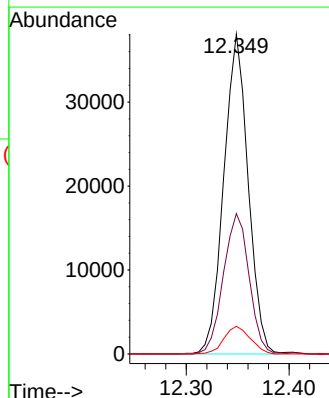
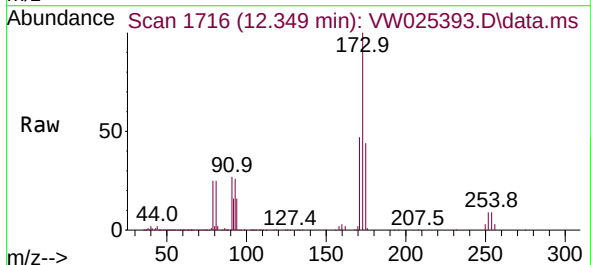
Tgt Ion:173 Resp: 62664

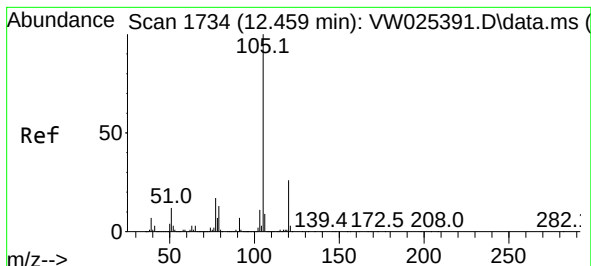
Ion Ratio Lower Upper

173 100

175 46.3 38.6 57.8

254 9.4 7.9 11.9





#60

Isopropylbenzene

Concen: 22.011 ug/L

RT: 12.464 min Scan# 1

Delta R.T. 0.006 min

Lab File: VW025393.D

Acq: 16 Mar 2023 13:54

Instrument :

MSVOA_W

ClientSampleId :

DCAP7

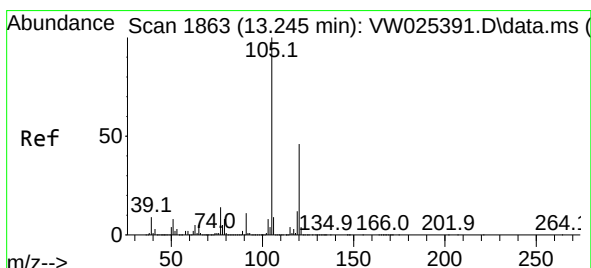
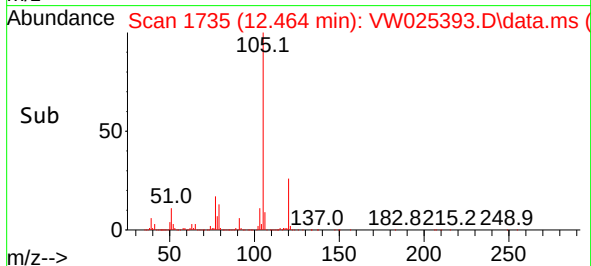
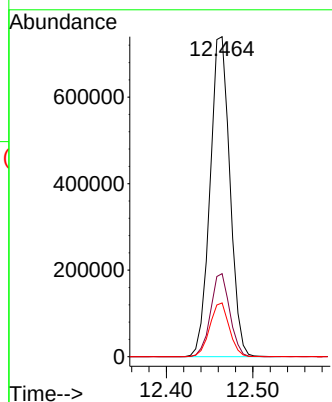
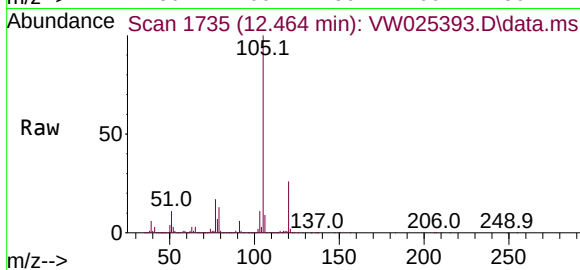
Tgt Ion:105 Resp: 1175180

Ion Ratio Lower Upper

105 100

120 25.1 20.9 31.3

77 16.6 13.1 19.7



#63

1,2,4-Trimethylbenzene

Concen: 27.949 ug/L

RT: 13.251 min Scan# 1864

Delta R.T. 0.006 min

Lab File: VW025393.D

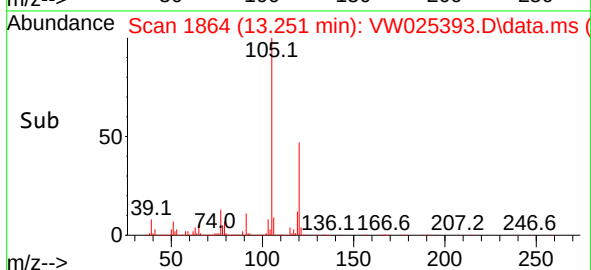
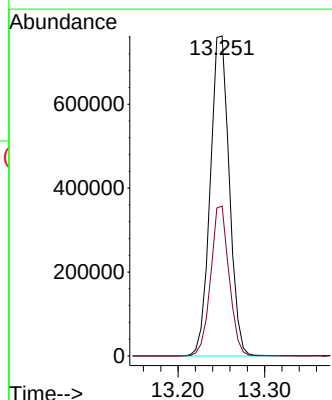
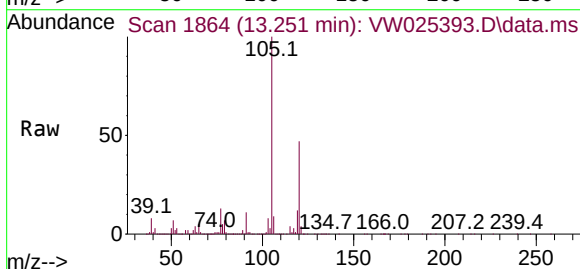
Acq: 16 Mar 2023 13:54

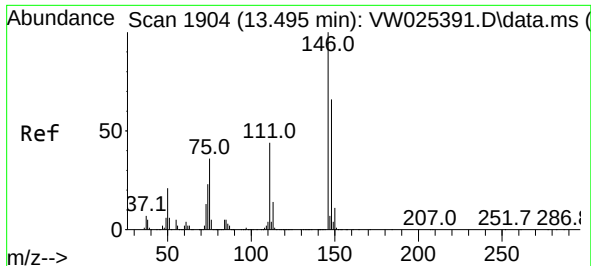
Tgt Ion:105 Resp: 1164260

Ion Ratio Lower Upper

105 100

120 45.3 36.0 54.0

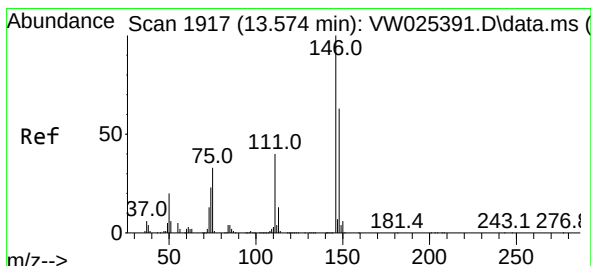
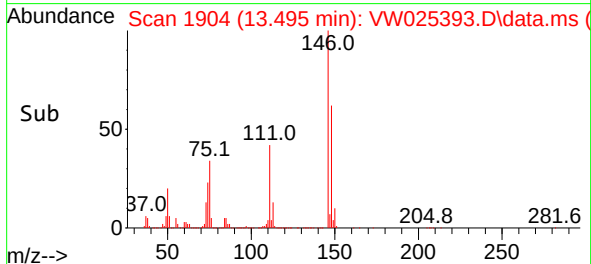
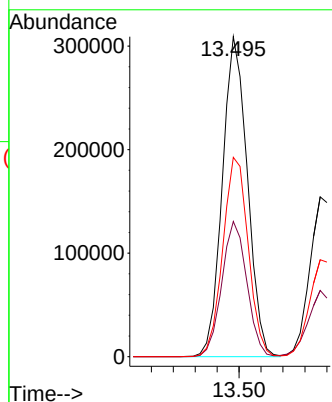
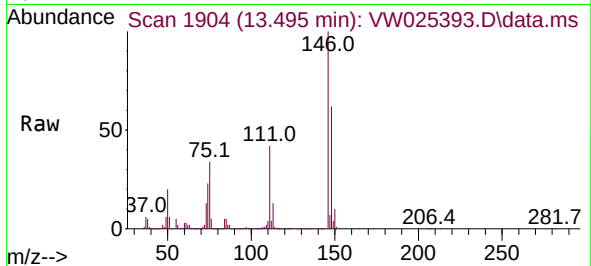




#64
1,3-Dichlorobenzene
Concen: 21.646 ug/L
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW025393.D
Acq: 16 Mar 2023 13:54

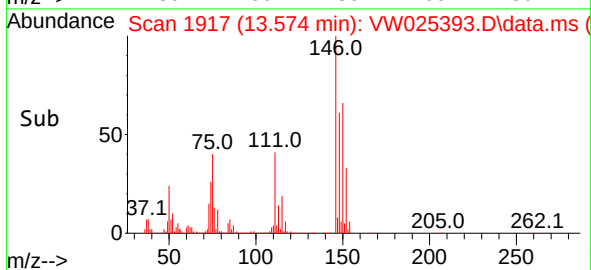
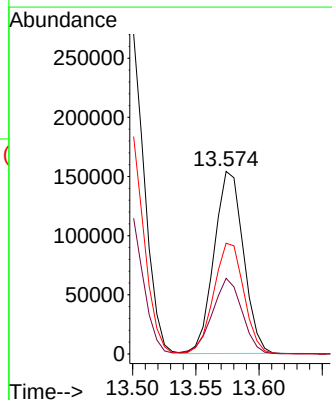
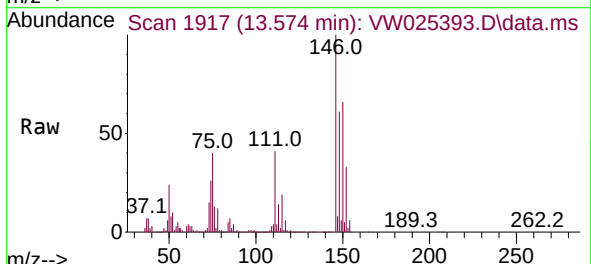
Instrument :
MSVOA_W
ClientSampleId :
DCAP7

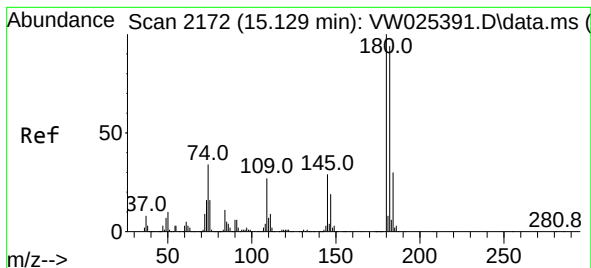
Tgt Ion:146 Resp: 489719
Ion Ratio Lower Upper
146 100
111 42.3 29.7 55.1
148 62.3 44.2 82.2



#65
1,4-Dichlorobenzene
Concen: 10.726 ug/L
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW025393.D
Acq: 16 Mar 2023 13:54

Tgt Ion:146 Resp: 248907
Ion Ratio Lower Upper
146 100
111 41.4 28.2 52.4
148 60.7 39.8 73.8





#70

1,2,4-trichlorobenzene

Concen: 20.178 ug/L

RT: 15.129 min Scan# 2172

Delta R.T. -0.000 min

Lab File: VW025393.D

Acq: 16 Mar 2023 13:54

Instrument :

MSVOA_W

ClientSampleId :

DCAP7

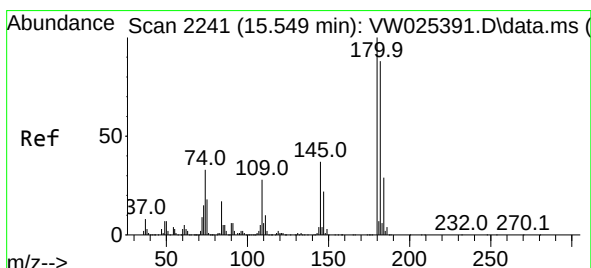
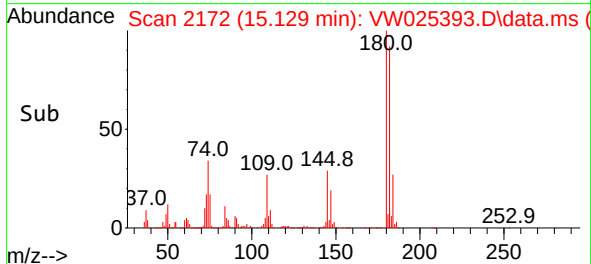
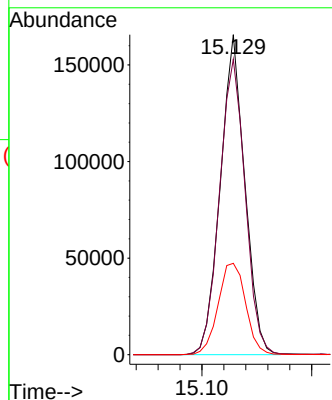
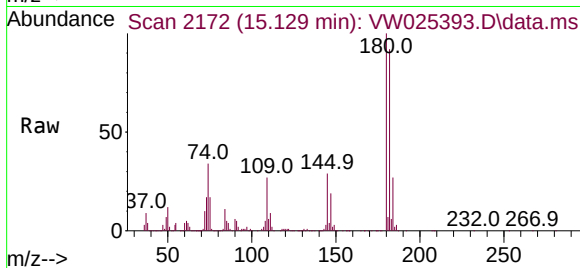
Tgt Ion:180 Resp: 257290

Ion Ratio Lower Upper

180 100

182 96.6 75.5 113.3

145 32.2 25.2 37.8



#72

1,2,3-Trichlorobenzene

Concen: 30.386 ug/L

RT: 15.549 min Scan# 2241

Delta R.T. -0.000 min

Lab File: VW025393.D

Acq: 16 Mar 2023 13:54

Tgt Ion:180 Resp: 348010

Ion Ratio Lower Upper

180 100

182 94.9 76.6 114.8

145 34.4 27.7 41.5

