

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121923\
 Data File : VW027765.D
 Acq On : 19 Dec 2023 08:46
 Operator : SY/MD
 Sample : BFB
 Misc : 5.00g/10mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Dec 19 22:34:01 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM121523SMA.M
 Quant Title : SFAM01.0
 QLast Update : Sun Dec 17 01:25:09 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	759	25.000	ug/L	# 0.00
28) Chlorobenzene-d5	11.629	117	1376	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.562	152	1350	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.344	65	40	3.721	ug/L	-0.02
Spiked Amount	25.000	Range	30 - 150	Recovery	=	14.880%#
7) Chloroethane-d5	0.000	69	0	0.000	ug/L	
Spiked Amount	25.000	Range	30 - 150	Recovery	=	0.000%#
11) 1,1-Dichloroethene-d2	0.000	65	0	0.000	ug/L	
Spiked Amount	25.000	Range	45 - 110	Recovery	=	0.000%#
21) 2-Butanone-d5	7.130	46	60	32.780	ug/L	0.03
Spiked Amount	50.000	Range	20 - 135	Recovery	=	65.560%
24) Chloroform-d	7.654	84	123	6.810	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	27.240%#
26) 1,2-Dichloroethane-d4	8.307	65	178	20.990	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	83.960%
32) Benzene-d6	8.276	84	386	4.800	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	19.200%#
36) 1,2-Dichloropropane-d6	9.276	67	39	1.712	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	6.840%#
41) Toluene-d8	10.337	98	894	11.982	ug/L	0.02
Spiked Amount	25.000	Range	30 - 130	Recovery	=	47.920%
43) trans-1,3-Dichloroprop...	0.000	79	0	0.000	ug/L	
Spiked Amount	25.000	Range	30 - 135	Recovery	=	0.000%#
47) 2-Hexanone-d5	0.000	63	0	0.000	ug/L	
Spiked Amount	50.000	Range	20 - 135	Recovery	=	0.000%#
56) 1,1,2,2-Tetrachloroeth...	12.696	84	189	10.970	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	43.880%#
66) 1,2-Dichlorobenzene-d4	13.854	152	647	13.389	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	53.560%#
Target Compounds						Qvalue
9) Trichlorofluoromethane	3.259	101	45	4.025	ug/L	# 18
13) Acetone	4.185	43	138	83.052	ug/L	# 40
14) Carbon disulfide	4.380	76	178	5.699	ug/L	# 76
15) Methyl Acetate	4.929	43	19	6.329	ug/L	# 47
16) Methylene chloride	4.929	84	9817	824.905	ug/L	100
22) 2-Butanone	7.221	43	45	20.394	ug/L	# 43
25) Chloroform	7.685	83	405	24.599	ug/L	# 67
31) Carbon tetrachloride	8.252	117	68	2.688	ug/L	# 3
33) Benzene	8.325	78	117	1.467	ug/L	100
38) Bromodichloromethane	9.654	83	71	3.034	ug/L	# 25
40) 4-Methyl-2-pentanone	9.989	43	338	40.163	ug/L	# 39
42) Toluene	10.385	91	388	4.521	ug/L	77
44) trans-1,3-Dichloropropene	10.702	75	367	15.880	ug/L	# 42
45) 1,1,2-Trichloroethane	10.696	97	148	10.382	ug/L	# 16
48) 2-Hexanone	11.062	43	41	6.545	ug/L	# 33
51) Chlorobenzene	11.660	112	245	4.468	ug/L	# 83
52) Ethylbenzene	11.733	91	224	2.316	ug/L	99
53) m,p-Xylene	11.727	106	44	1.184	ug/L	75
54) o-Xylene	12.160	106	55	1.590	ug/L	62

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

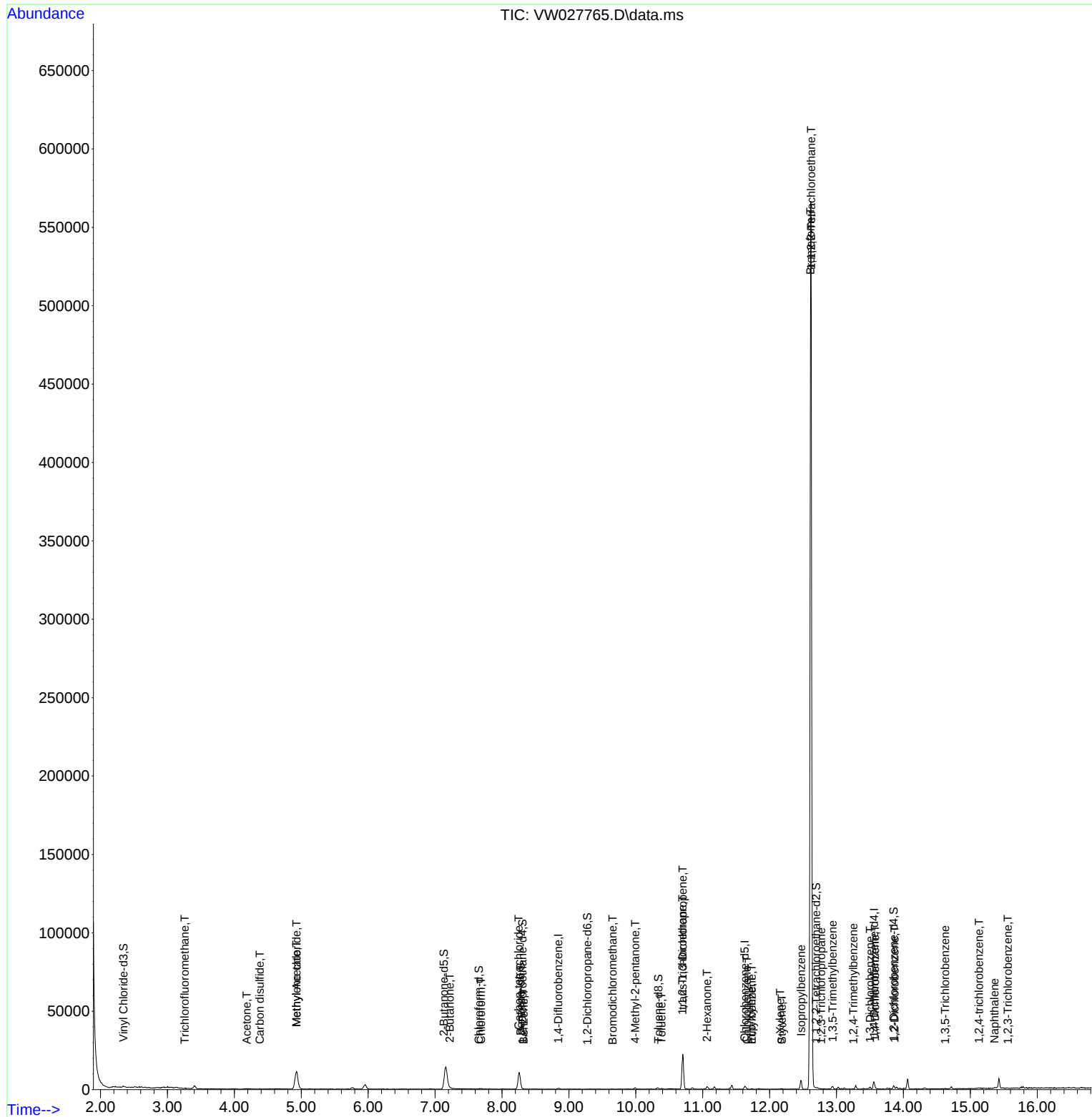
55) Styrene	12.184	104	161	2.761	ug/L	#	33
57) 1,1,2,2-Tetrachloroethane	12.623	83	37	2.277	ug/L	#	1
59) Bromoform	12.611	173	553	33.465	ug/L	#	38
60) Isopropylbenzene	12.470	105	394	2.068	ug/L	#	1
61) 1,2,3-Trichloropropane	12.769	75	56	2.489	ug/L	#	38
62) 1,3,5-Trimethylbenzene	12.940	105	164	1.077	ug/L	#	76
63) 1,2,4-Trimethylbenzene	13.251	105	175	1.167	ug/L	#	31
64) 1,3-Dichlorobenzene	13.501	146	236	2.866	ug/L	#	52
65) 1,4-Dichlorobenzene	13.574	146	355	4.293	ug/L	#	64
67) 1,2-Dichlorobenzene	13.867	146	226	3.157	ug/L	#	49
69) 1,3,5-Trichlorobenzene	14.623	180	103	1.798	ug/L	#	67
70) 1,2,4-trichlorobenzene	15.129	180	269	5.718	ug/L	#	79
71) Naphthalene	15.360	128	770	9.236	ug/L	#	70
72) 1,2,3-Trichlorobenzene	15.561	180	194	4.932	ug/L	#	81

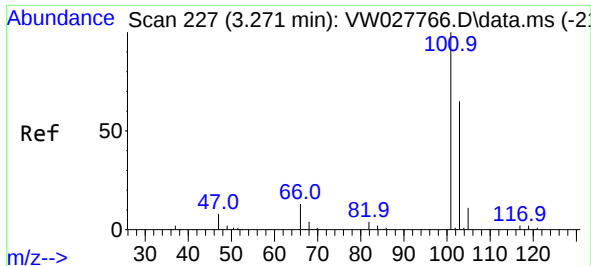
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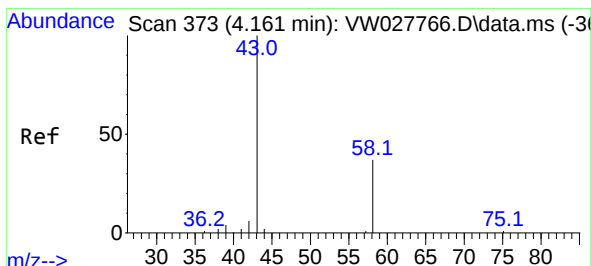
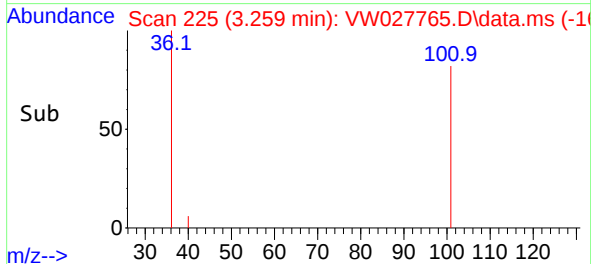
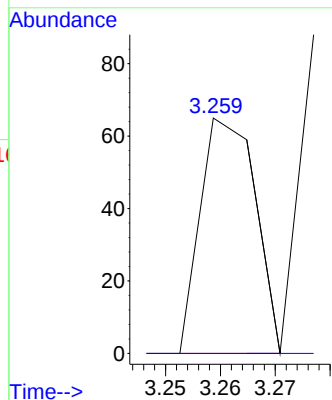
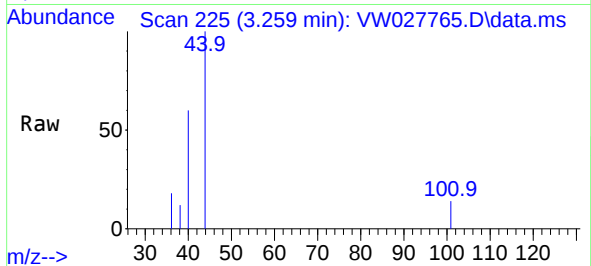




#9
Trichlorofluoromethane
Concen: 4.025 ug/L
RT: 3.259 min Scan# 21
Delta R.T. -0.006 min
Lab File: VW027765.D
Acq: 19 Dec 2023 08:46

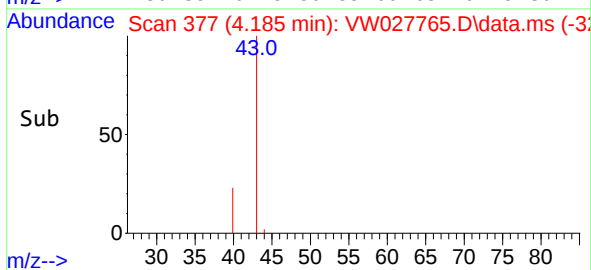
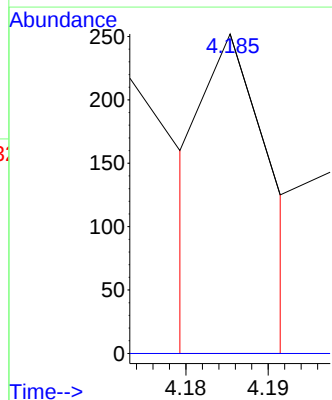
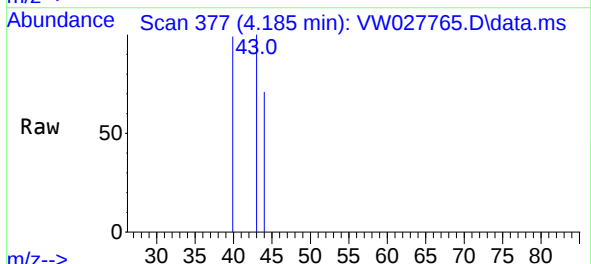
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MSVOA_W
ClientSampleId :

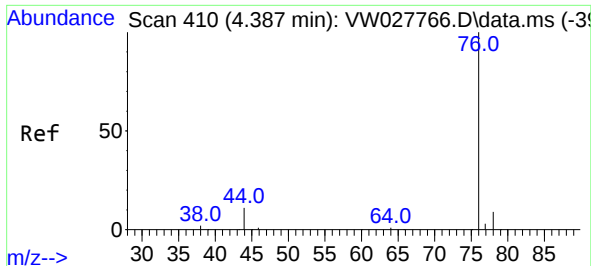
Tgt Ion:101 Resp: 45
Ion Ratio Lower Upper
101 100
103 0.0 51.1 76.7#



#13
Acetone
Concen: 83.052 ug/L
RT: 4.185 min Scan# 377
Delta R.T. -0.000 min
Lab File: VW027765.D
Acq: 19 Dec 2023 08:46

Tgt Ion: 43 Resp: 138
Ion Ratio Lower Upper
43 100
58 0.0 0.0 68.6

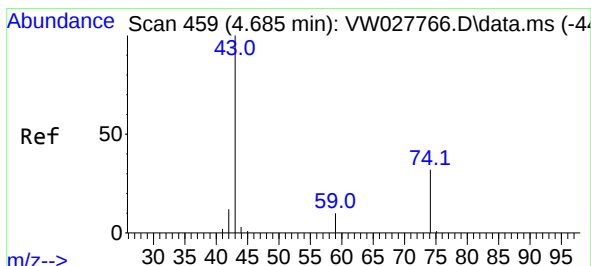
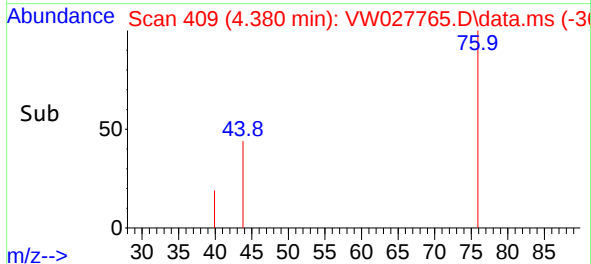
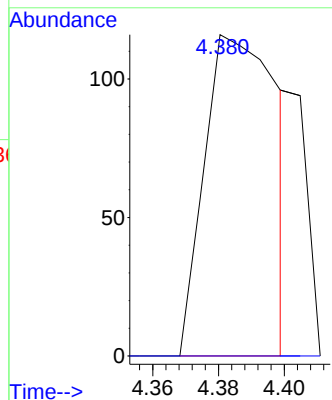
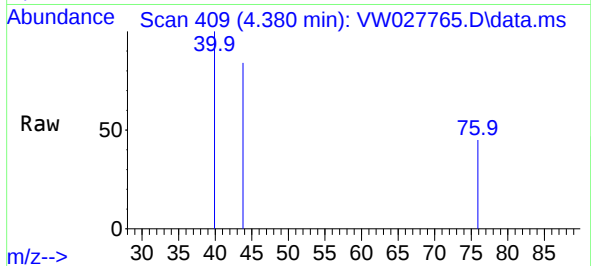




#14
Carbon disulfide
Concen: 5.699 ug/L
RT: 4.380 min Scan# 409
Delta R.T. -0.000 min
Lab File: VW027765.D
Acq: 19 Dec 2023 08:46

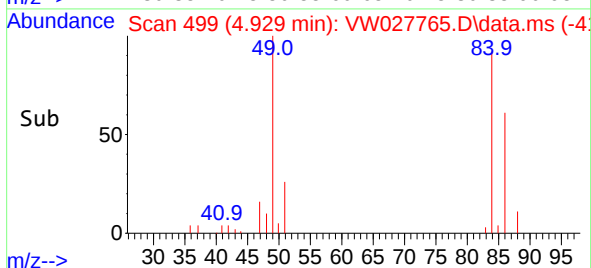
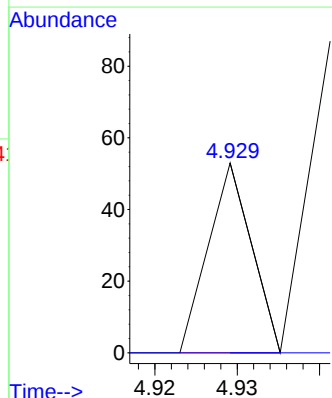
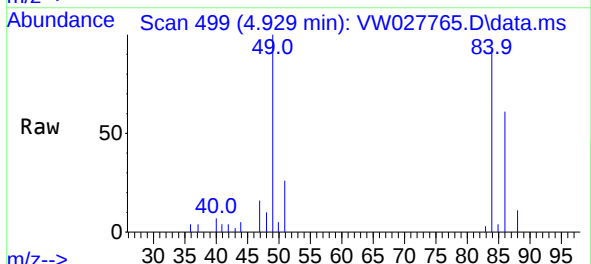
Instrument :
MSVOA_W
ClientSampleId :

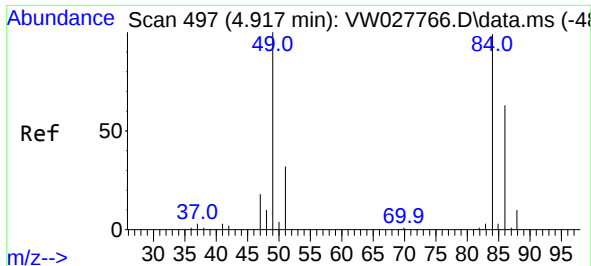
Tgt Ion: 76 Resp: 178
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.6#



#15
Methyl Acetate
Concen: 6.329 ug/L
RT: 4.929 min Scan# 499
Delta R.T. 0.231 min
Lab File: VW027765.D
Acq: 19 Dec 2023 08:46

Tgt Ion: 43 Resp: 19
Ion Ratio Lower Upper
43 100
74 0.0 22.1 33.1#

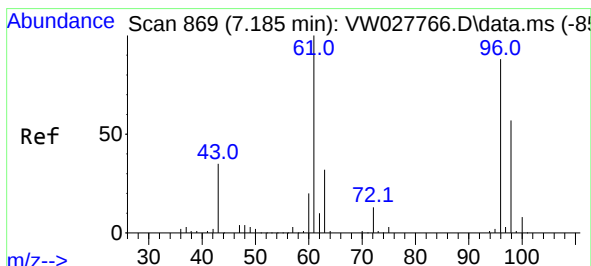
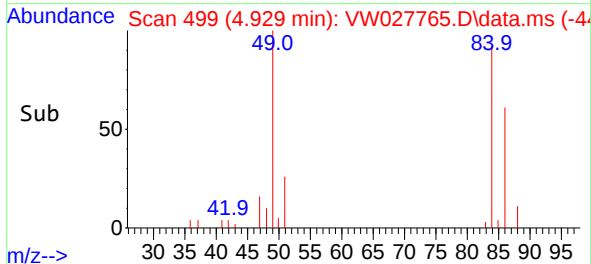
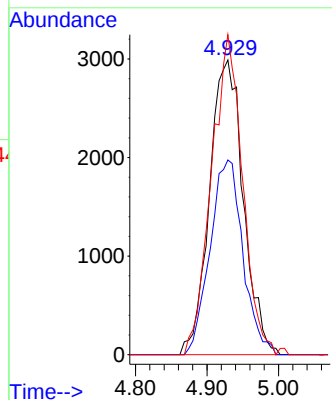
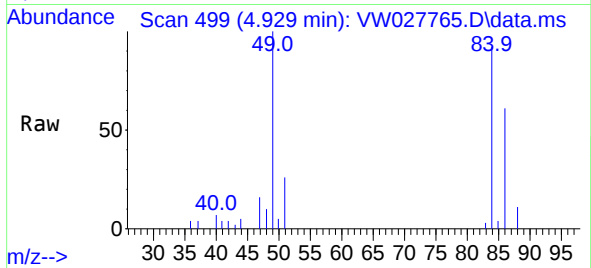




#16
Methylene chloride
Concen: 824.905 ug/L
RT: 4.929 min Scan# 49
Delta R.T. 0.012 min
Lab File: VW027765.D
Acq: 19 Dec 2023 08:46

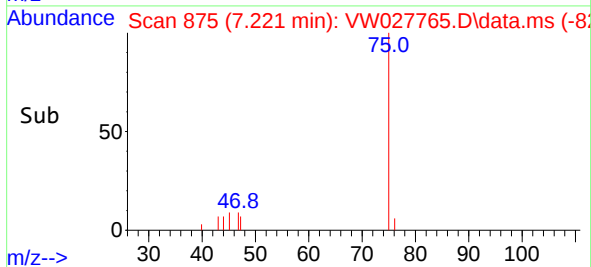
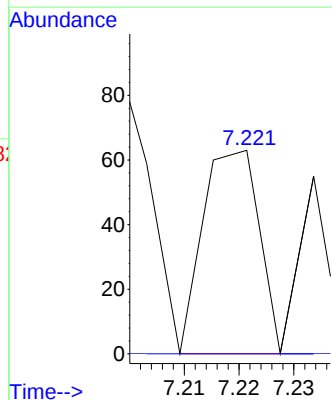
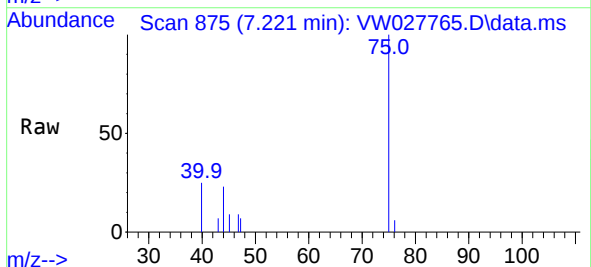
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ClientSampleId :

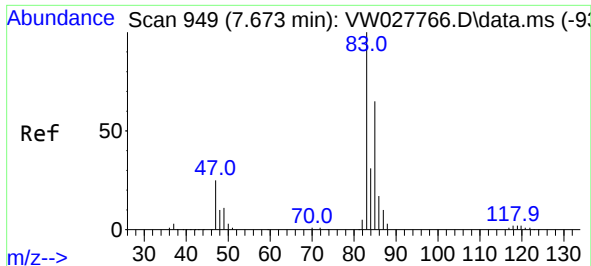
Tgt Ion: 84 Resp: 9817
Ion Ratio Lower Upper
84 100
86 66.1 45.8 85.2
49 108.6 76.2 141.6



#22
2-Butanone
Concen: 20.394 ug/L
RT: 7.221 min Scan# 875
Delta R.T. 0.024 min
Lab File: VW027765.D
Acq: 19 Dec 2023 08:46

Tgt Ion: 43 Resp: 45
Ion Ratio Lower Upper
43 100
72 0.0 16.1 48.2#

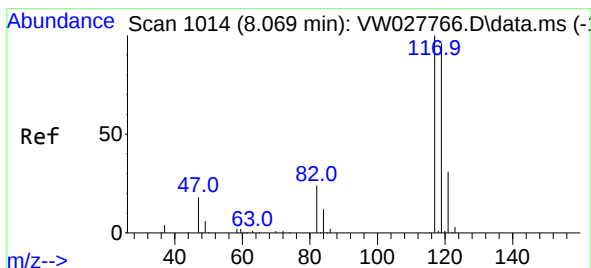
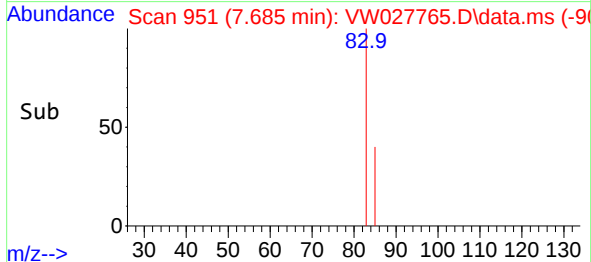
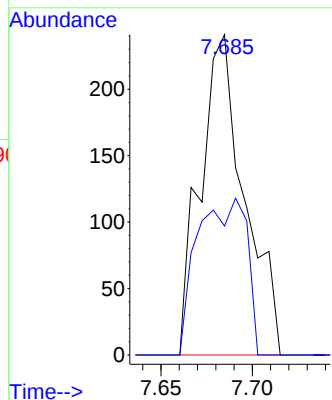
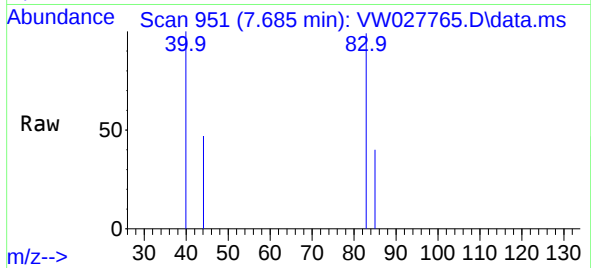




#25
Chloroform
Concen: 24.599 ug/L
RT: 7.685 min Scan# 91
Delta R.T. 0.012 min
Lab File: VW027765.D
Acq: 19 Dec 2023 08:46

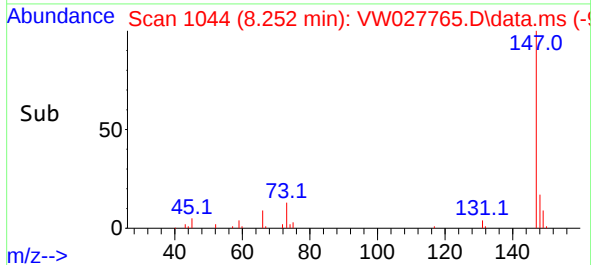
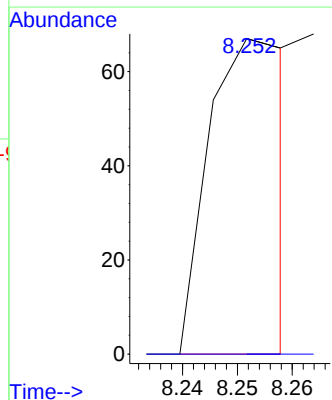
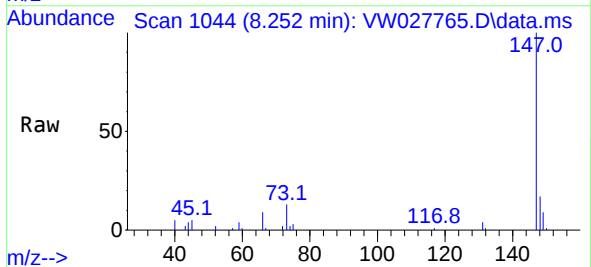
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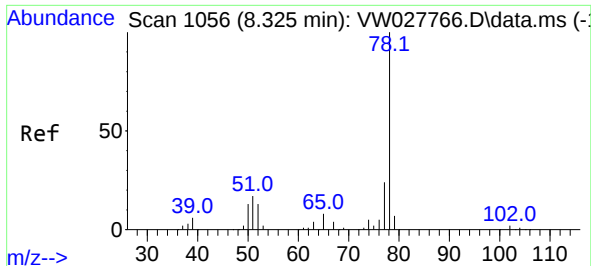
Tgt Ion: 83 Resp: 405
Ion Ratio Lower Upper
83 100
85 40.2 46.9 87.1#



#31
Carbon tetrachloride
Concen: 2.688 ug/L
RT: 8.252 min Scan# 1044
Delta R.T. 0.183 min
Lab File: VW027765.D
Acq: 19 Dec 2023 08:46

Tgt Ion: 117 Resp: 68
Ion Ratio Lower Upper
117 100
119 0.0 74.6 112.0#

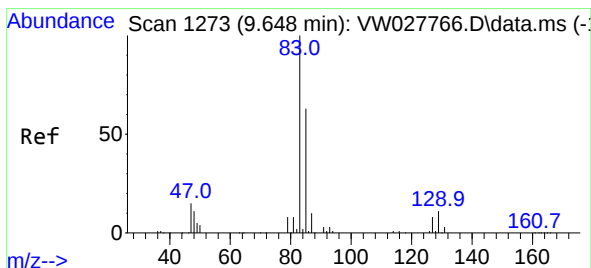
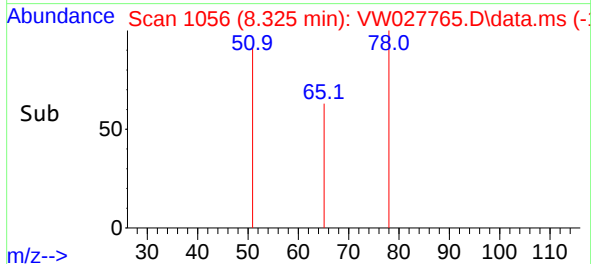
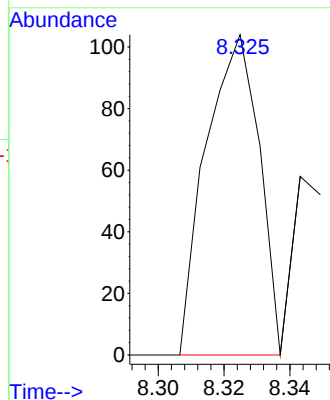
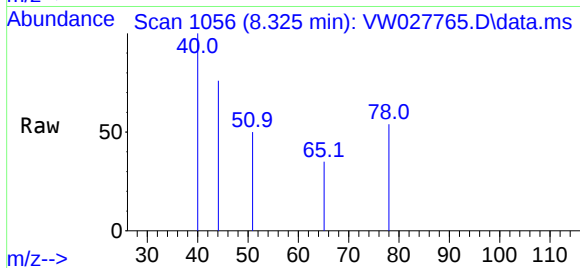




#33
Benzene
Concen: 1.467 ug/L
RT: 8.325 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VW027765.D
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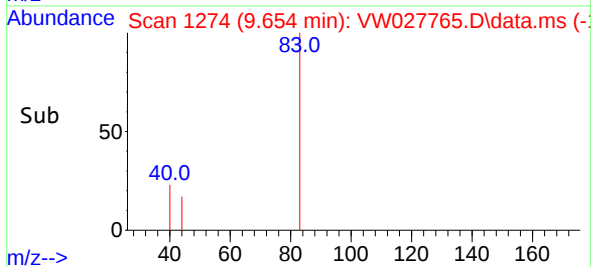
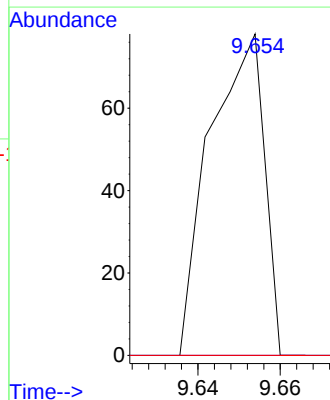
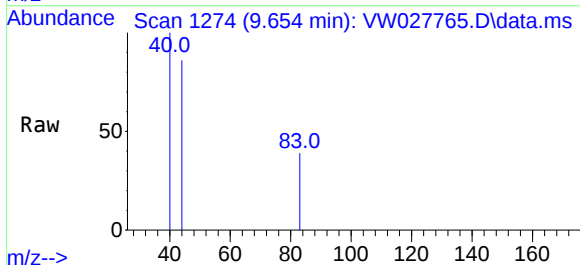
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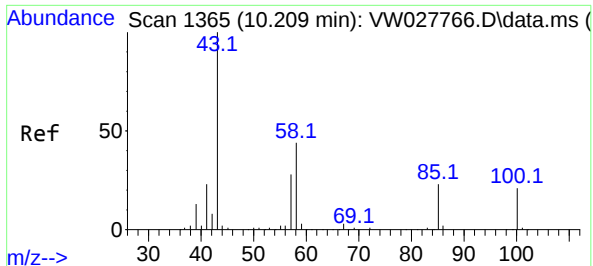
Tgt Ion: 78 Resp: 117



#38
Bromodichloromethane
Concen: 3.034 ug/L
RT: 9.654 min Scan# 1274
Delta R.T. 0.012 min
Lab File: VW027765.D
Acq: 19 Dec 2023 08:46

Tgt Ion: 83 Resp: 71
Ion Ratio Lower Upper
83 100
85 0.0 45.3 84.1#
127 0.0 6.8 10.2#





#40

4-Methyl-2-pentanone

Concen: 40.163 ug/L

RT: 9.989 min Scan# 1329

Delta R.T. -0.220 min

Lab File: VW027765.D

Acq: 19 Dec 2023 08:46

Instrument :

MSVOA_W

ClientSampleId :

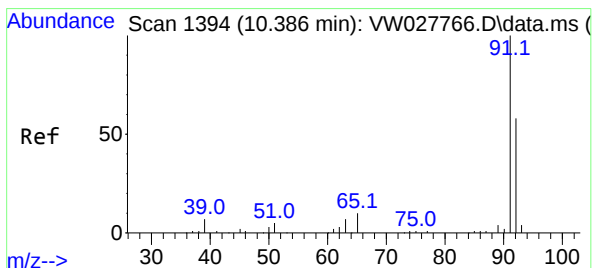
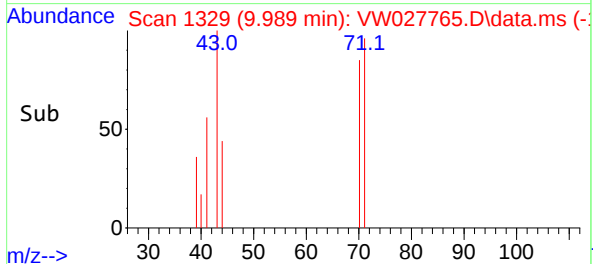
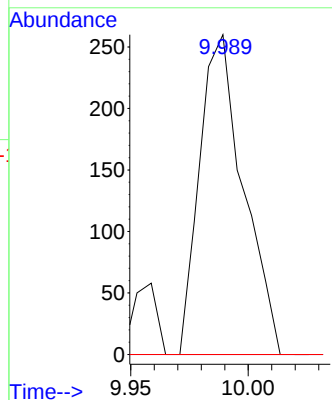
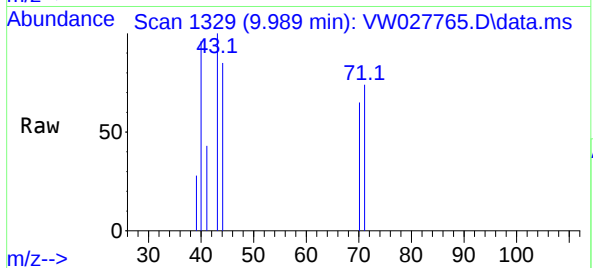
Tgt Ion: 43 Resp: 338

Ion Ratio Lower Upper

43 100

58 0.0 36.1 54.1#

100 0.0 15.8 23.8#



#42

Toluene

Concen: 4.521 ug/L

RT: 10.385 min Scan# 1394

Delta R.T. -0.000 min

Lab File: VW027765.D

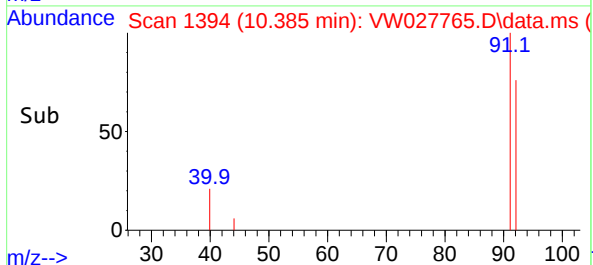
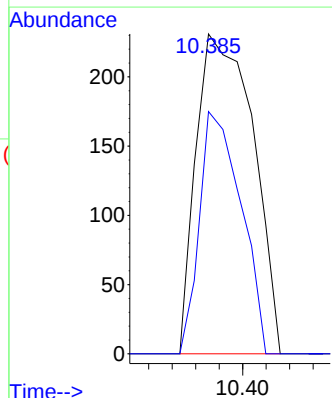
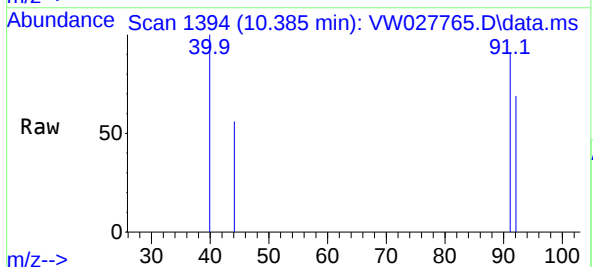
Acq: 19 Dec 2023 08:46

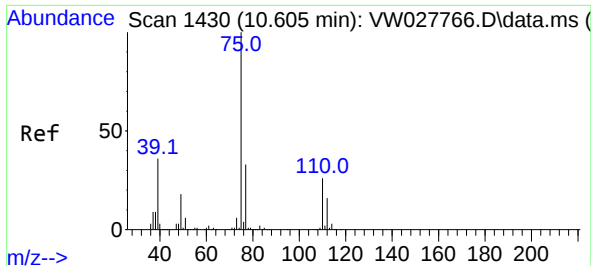
Tgt Ion: 91 Resp: 388

Ion Ratio Lower Upper

91 100

92 75.8 41.2 76.4

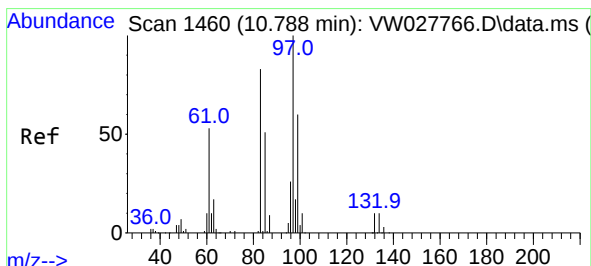
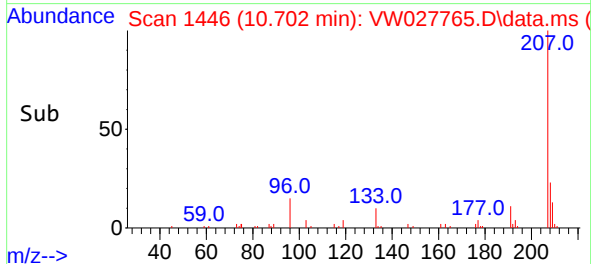
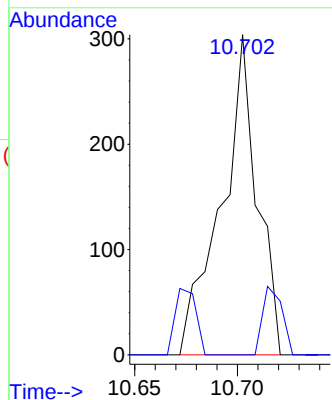
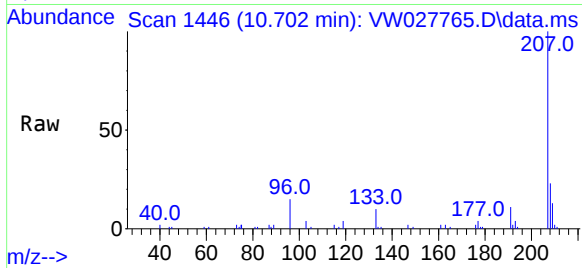




#44
trans-1,3-Dichloropropene
Concen: 15.880 ug/L
RT: 10.702 min Scan# 1446
Delta R.T. 0.097 min
Lab File: VW027765.D
Acq: 19 Dec 2023 08:46

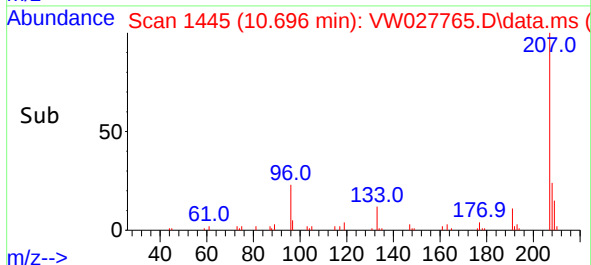
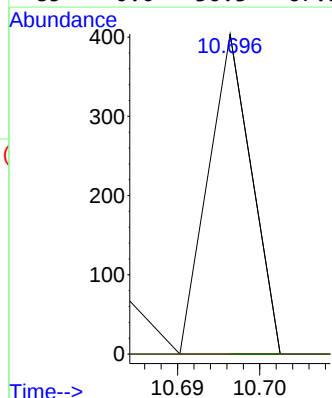
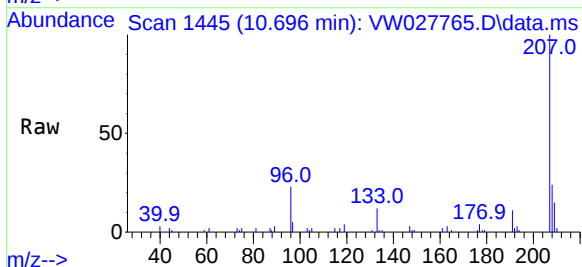
Instrument :
MSVOA_W
ClientSampleId :

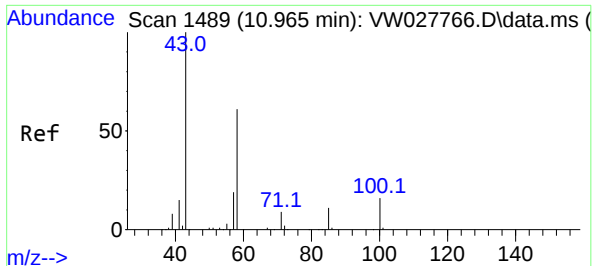
Tgt Ion: 75 Resp: 367
Ion Ratio Lower Upper
75 100
77 0.0 22.7 42.1#



#45
1,1,2-Trichloroethane
Concen: 10.382 ug/L
RT: 10.696 min Scan# 1445
Delta R.T. -0.092 min
Lab File: VW027765.D
Acq: 19 Dec 2023 08:46

Tgt Ion: 97 Resp: 148
Ion Ratio Lower Upper
97 100
99 0.0 43.4 80.6#
83 0.0 59.0 109.6#
85 0.0 36.3 67.5#





#48

2-Hexanone

Concen: 6.545 ug/L

RT: 11.062 min Scan# 11

Delta R.T. 0.097 min

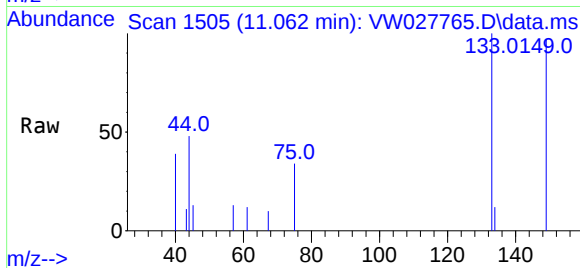
Lab File: VW027765.D

Acq: 19 Dec 2023 08:46

Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion: 43 Resp: 41

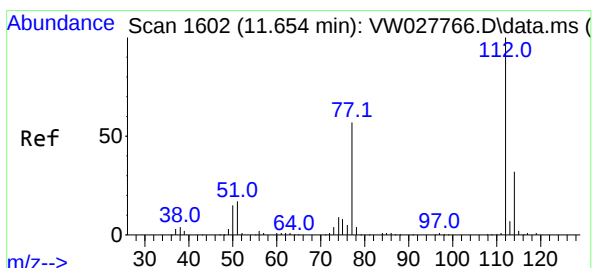
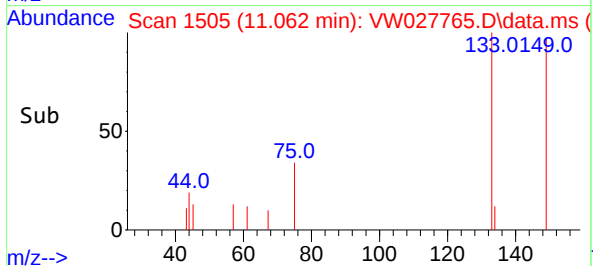
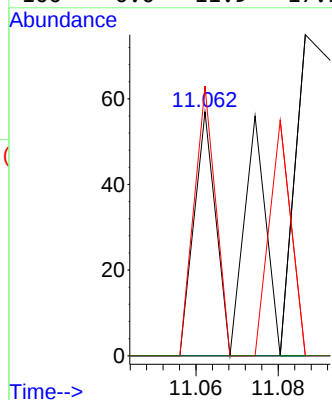
Ion Ratio Lower Upper

43 100

58 0.0 50.4 75.6#

57 0.0 17.0 25.6#

100 0.0 11.9 17.9#



#51

Chlorobenzene

Concen: 4.468 ug/L

RT: 11.660 min Scan# 1603

Delta R.T. 0.006 min

Lab File: VW027765.D

Acq: 19 Dec 2023 08:46

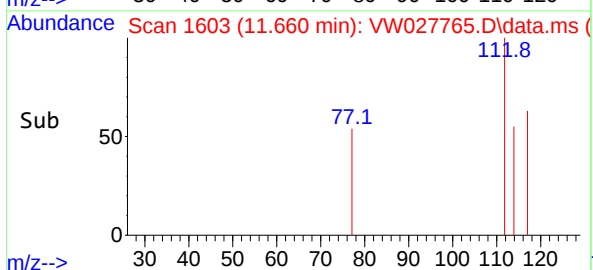
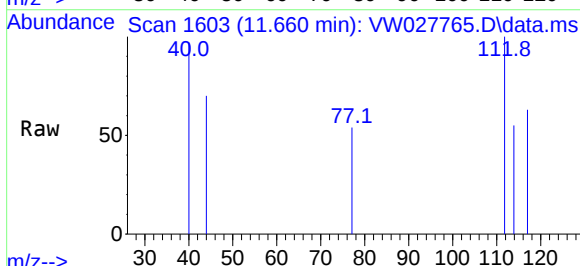
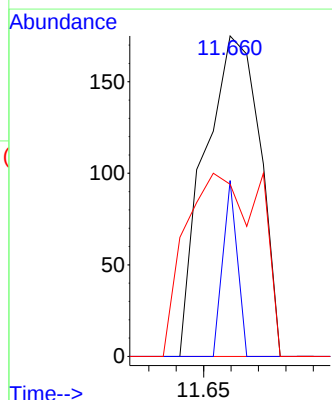
Tgt Ion: 112 Resp: 245

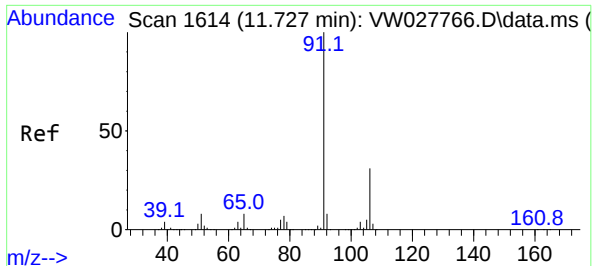
Ion Ratio Lower Upper

112 100

114 54.9 25.0 46.4#

77 53.7 48.1 72.1





#52

Ethylbenzene

Concen: 2.316 ug/L

RT: 11.733 min Scan# 1

Delta R.T. 0.006 min

Lab File: VW027765.D

Acq: 19 Dec 2023 08:46

Instrument :

MSVOA_W

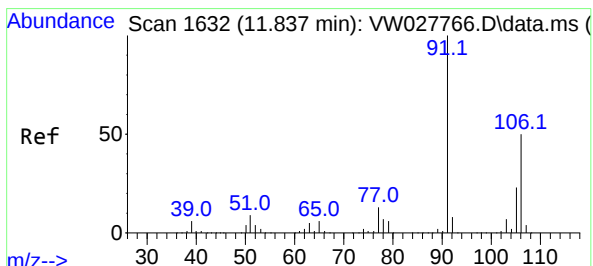
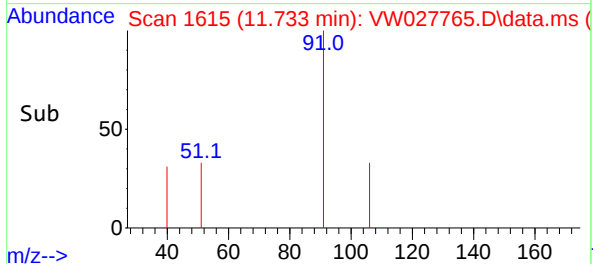
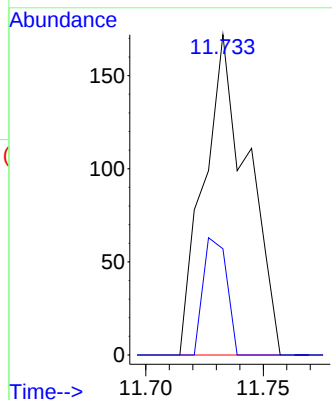
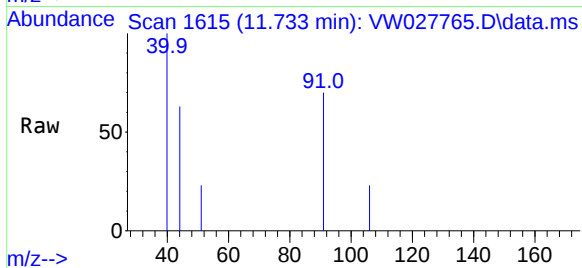
ClientSampleId :

Tgt Ion: 91 Resp: 224

Ion Ratio Lower Upper

91 100

106 33.1 23.7 44.1



#53

m,p-Xylene

Concen: 1.184 ug/L

RT: 11.727 min Scan# 1614

Delta R.T. -0.110 min

Lab File: VW027765.D

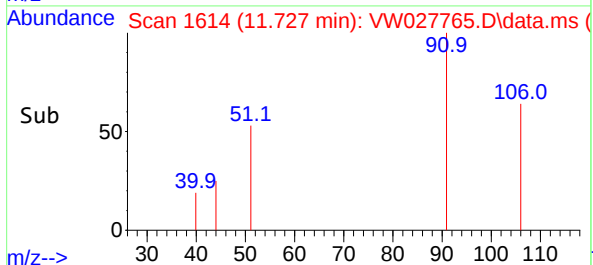
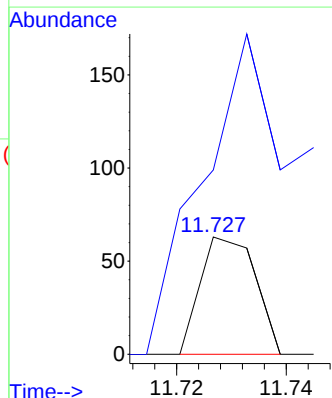
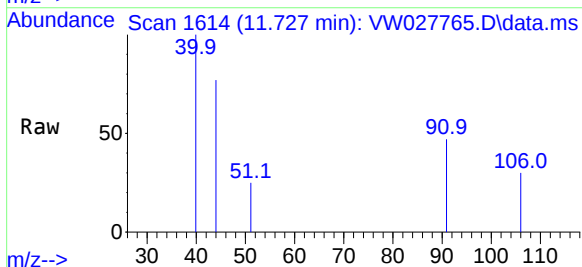
Acq: 19 Dec 2023 08:46

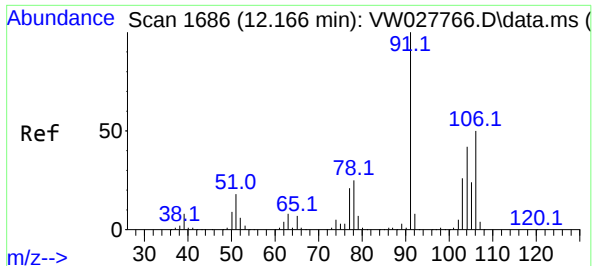
Tgt Ion:106 Resp: 44

Ion Ratio Lower Upper

106 100

91 157.1 135.7 251.9

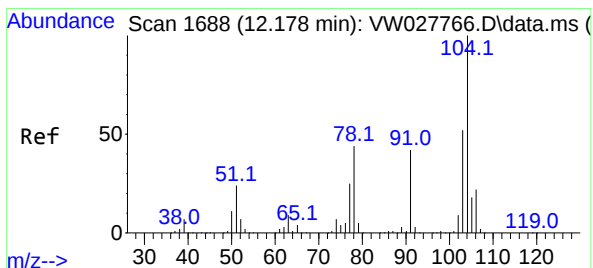
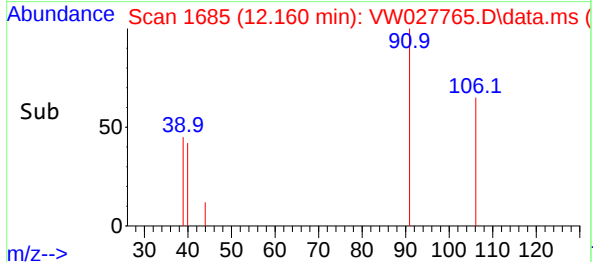
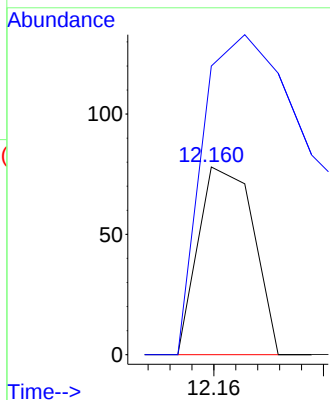
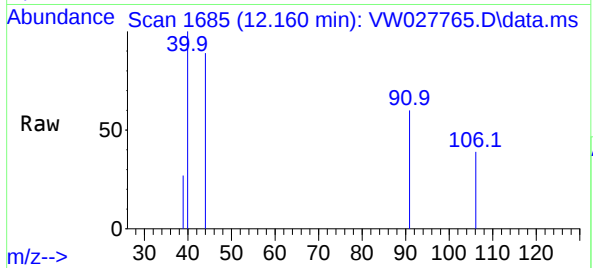




#54
o-Xylene
Concen: 1.590 ug/L
RT: 12.160 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VW027765.D
Acq: 19 Dec 2023 08:46

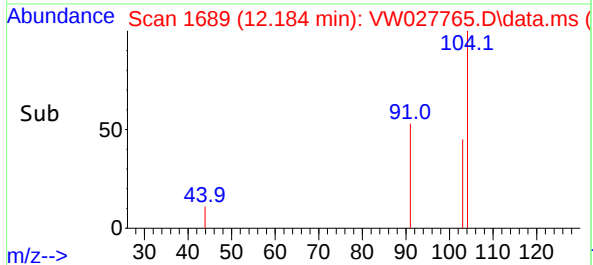
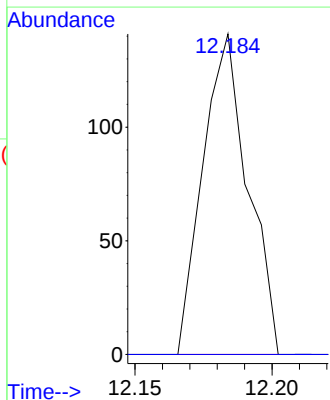
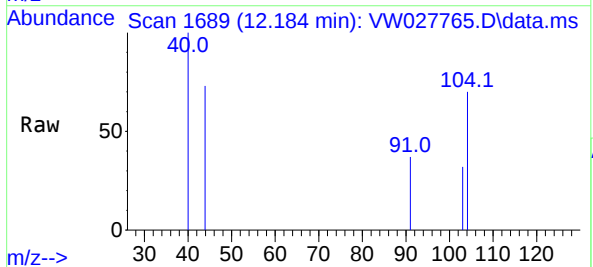
Instrument :
MSVOA_W
ClientSampleId :

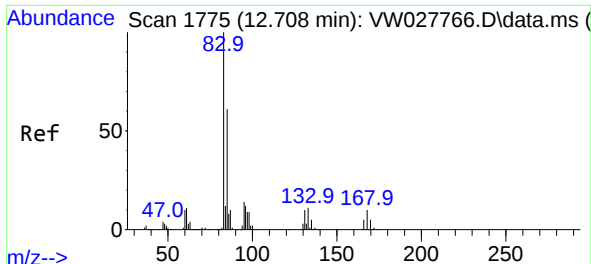
Tgt Ion:106 Resp: 55
Ion Ratio Lower Upper
106 100
91 153.8 149.9 278.3



#55
Styrene
Concen: 2.761 ug/L
RT: 12.184 min Scan# 1689
Delta R.T. 0.006 min
Lab File: VW027765.D
Acq: 19 Dec 2023 08:46

Tgt Ion:104 Resp: 161
Ion Ratio Lower Upper
104 100
78 0.0 29.6 55.0#



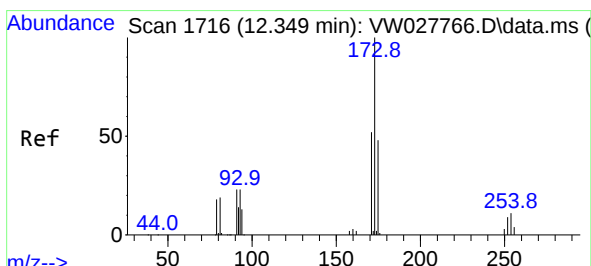
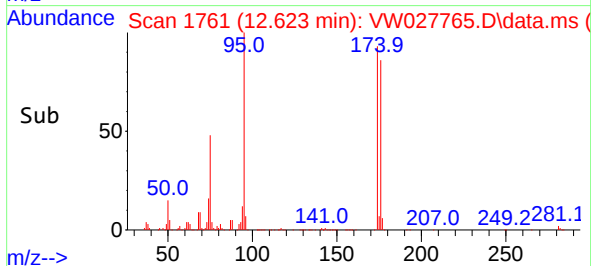
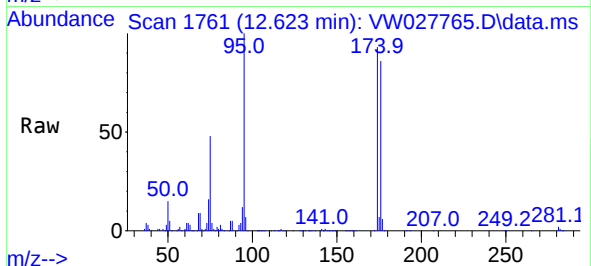


#57
1,1,2,2-Tetrachloroethane
Concen: 2.277 ug/L
RT: 12.623 min Scan# 1759
Delta R.T. -0.086 min
Lab File: VW027765.D
Acq: 19 Dec 2023 08:46

Instrument :
MSVOA_W
ClientSampleId :

Tgt Ion: 83 Resp: 37

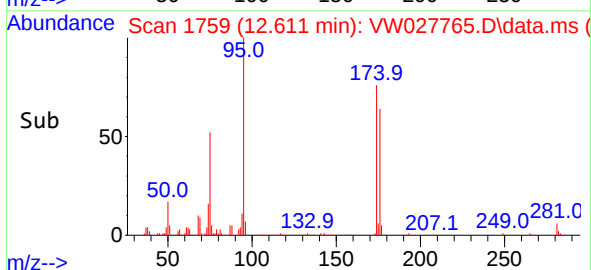
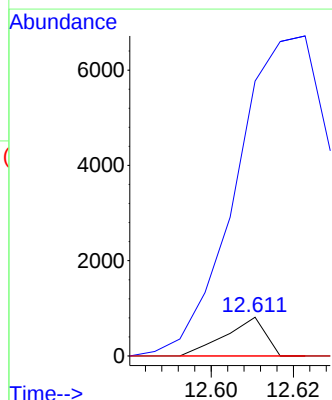
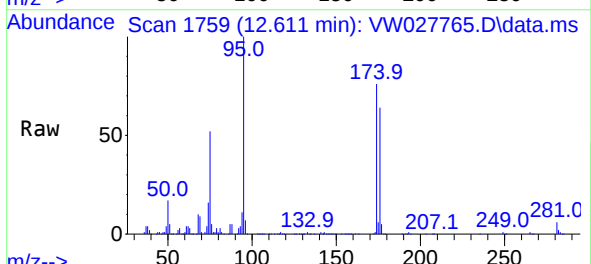
Ion	Ratio	Lower	Upper
83	100		
85	0.0	45.8	85.2#
131	137.6	7.0	10.6#

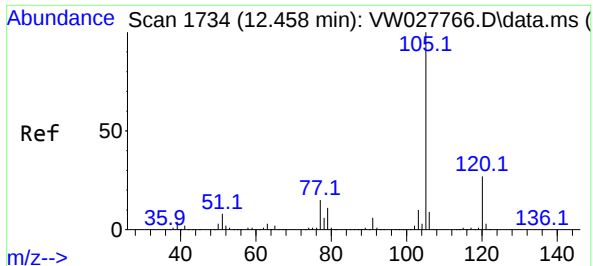


#59
Bromoform
Concen: 33.465 ug/L
RT: 12.611 min Scan# 1759
Delta R.T. 0.262 min
Lab File: VW027765.D
Acq: 19 Dec 2023 08:46

Tgt Ion: 173 Resp: 553

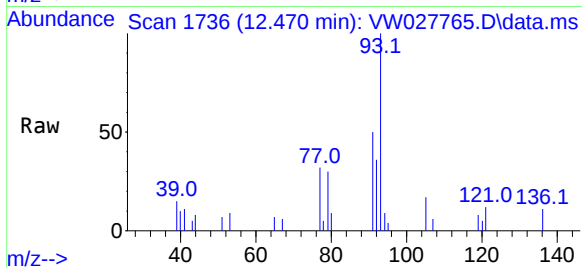
Ion	Ratio	Lower	Upper
173	100		
175	0.0	36.3	54.5#
254	0.0	7.5	11.3#



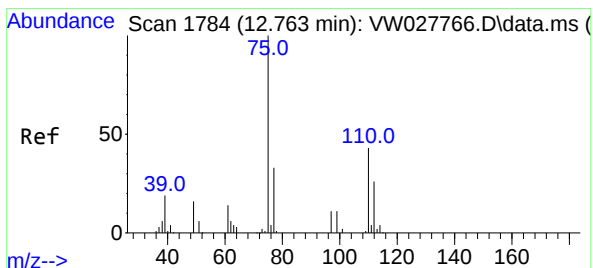
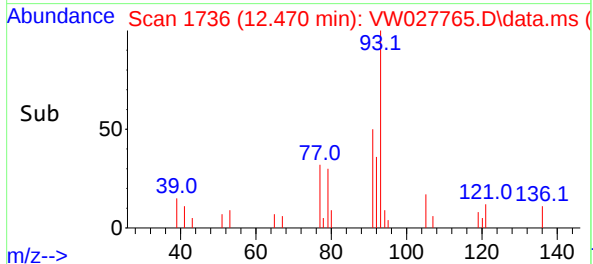
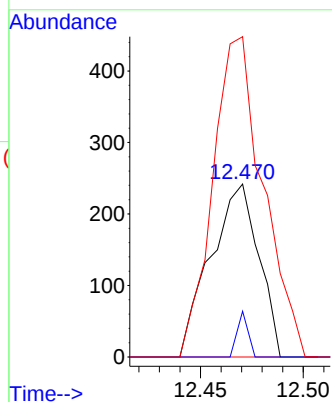


#60
Isopropylbenzene
Concen: 2.068 ug/L
RT: 12.470 min Scan# 1736
Delta R.T. 0.012 min
Lab File: VW027765.D
Acq: 19 Dec 2023 08:46

Instrument :
MSVOA_W
ClientSampleId :

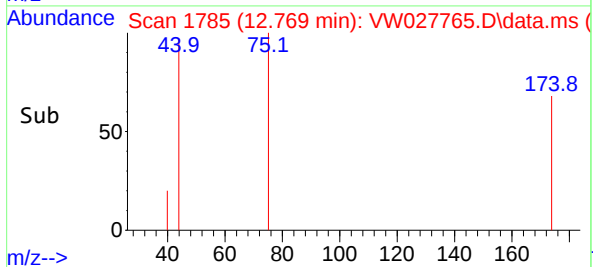
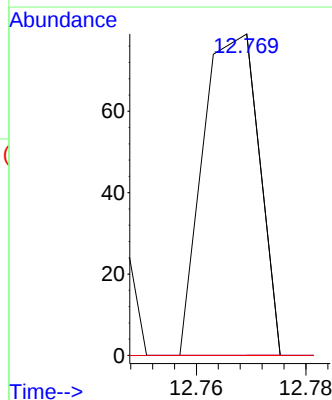
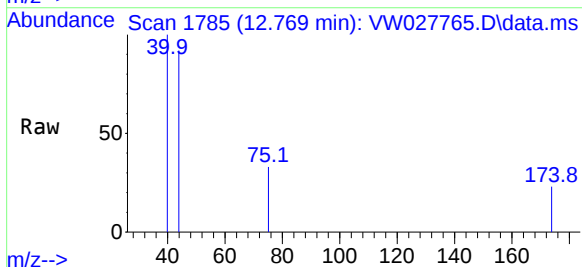


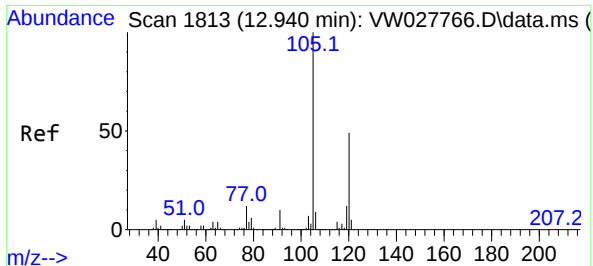
Tgt Ion:105 Resp: 394
Ion Ratio Lower Upper
105 100
120 0.0 21.0 31.4#
77 193.9 12.0 18.0#



#61
1,2,3-Trichloropropane
Concen: 2.489 ug/L
RT: 12.769 min Scan# 1785
Delta R.T. 0.006 min
Lab File: VW027765.D
Acq: 19 Dec 2023 08:46

Tgt Ion: 75 Resp: 56
Ion Ratio Lower Upper
75 100
77 0.0 26.2 39.4#
110 0.0 32.2 48.2#

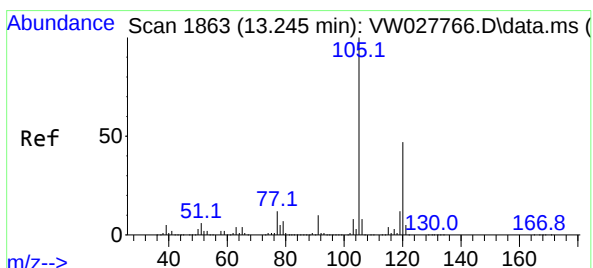
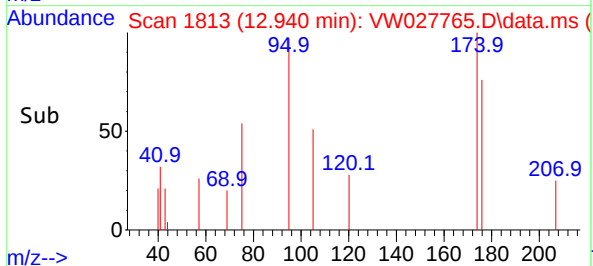
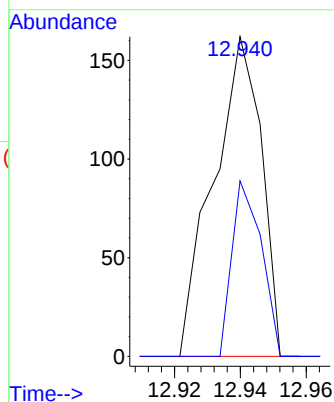
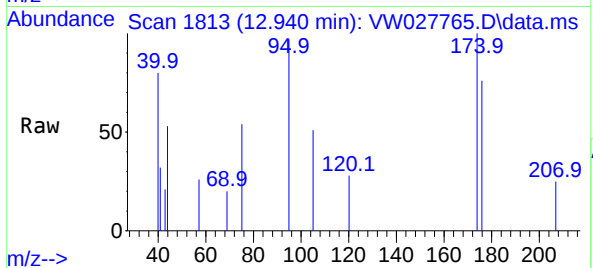




#62
1,3,5-Trimethylbenzene
Concen: 1.077 ug/L
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW027765.D
Acq: 19 Dec 2023 08:46

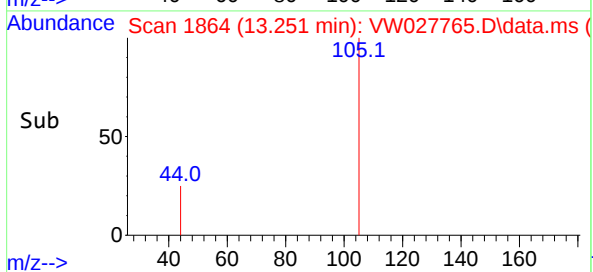
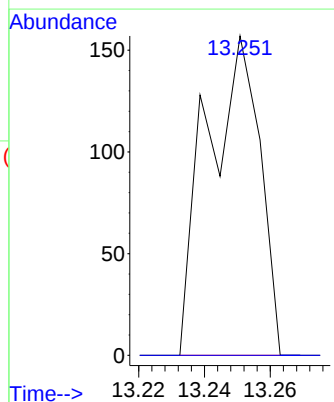
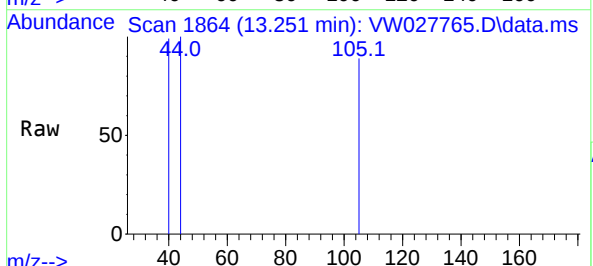
Instrument :
MSVOA_W
ClientSampleId :

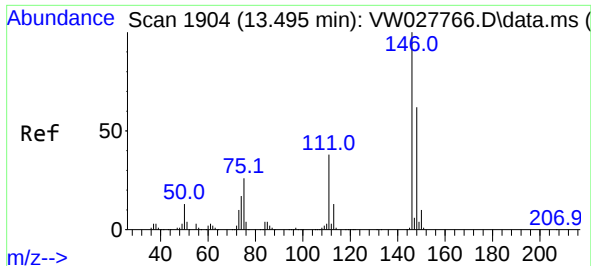
Tgt Ion:105 Resp: 164
Ion Ratio Lower Upper
105 100
120 33.5 40.0 60.0#



#63
1,2,4-Trimethylbenzene
Concen: 1.167 ug/L
RT: 13.251 min Scan# 1864
Delta R.T. 0.006 min
Lab File: VW027765.D
Acq: 19 Dec 2023 08:46

Tgt Ion:105 Resp: 175
Ion Ratio Lower Upper
105 100
120 0.0 36.4 54.6#





#64

1,3-Dichlorobenzene

Concen: 2.866 ug/L

RT: 13.501 min Scan# 1905

Delta R.T. 0.006 min

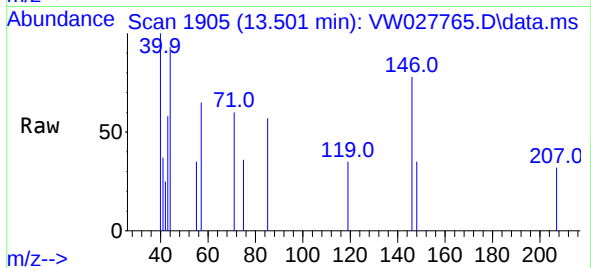
Lab File: VW027765.D

Acq: 19 Dec 2023 08:46

Instrument :

MSVOA_W

ClientSampleId :



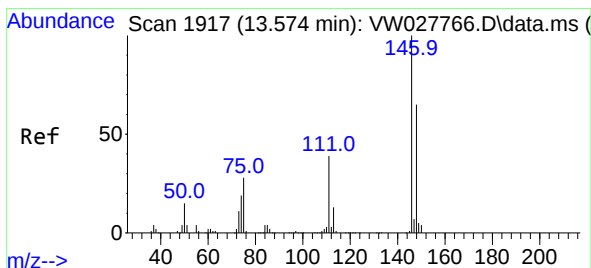
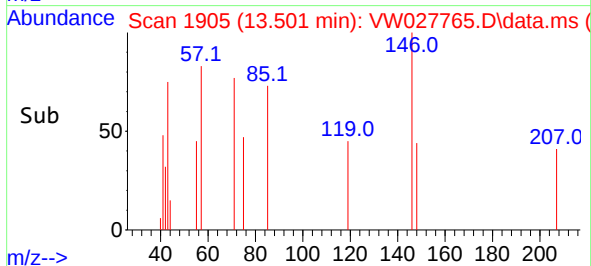
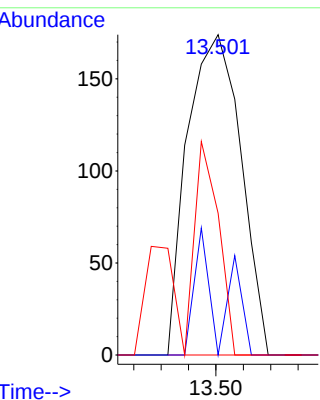
Tgt Ion:146 Resp: 236

Ion Ratio Lower Upper

146 100

111 0.0 31.1 57.7#

148 44.3 52.6 97.8#



#65

1,4-Dichlorobenzene

Concen: 4.293 ug/L

RT: 13.574 min Scan# 1917

Delta R.T. -0.000 min

Lab File: VW027765.D

Acq: 19 Dec 2023 08:46

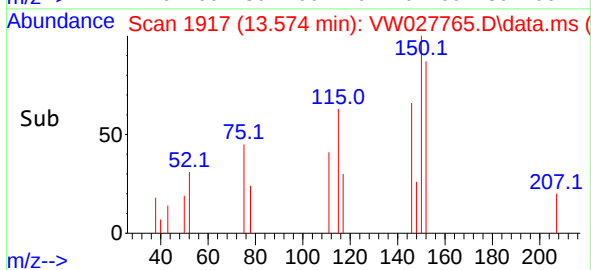
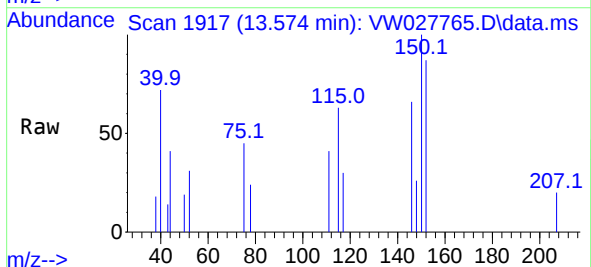
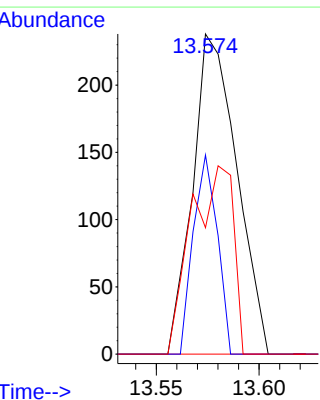
Tgt Ion:146 Resp: 355

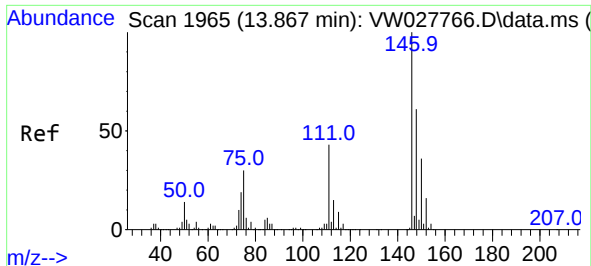
Ion Ratio Lower Upper

146 100

111 62.2 26.2 48.6#

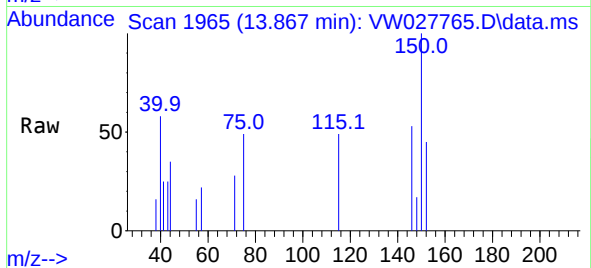
148 39.5 46.3 85.9#



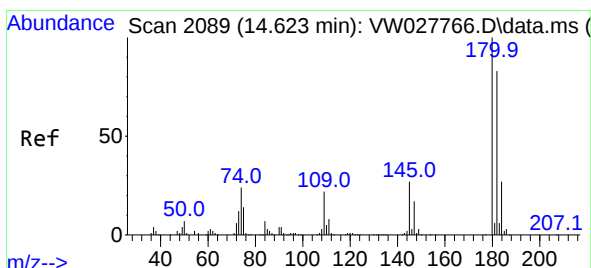
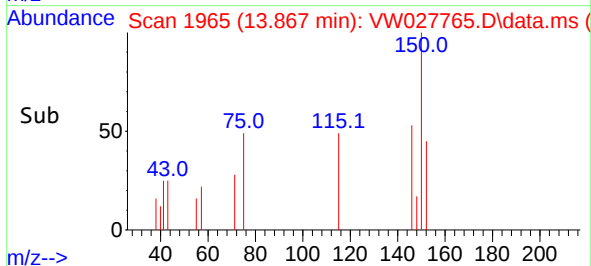
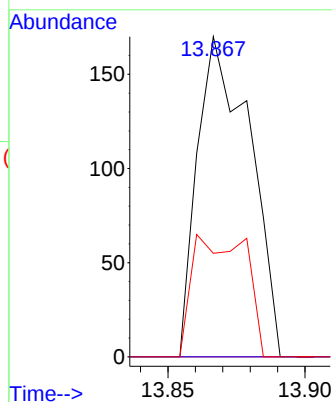


#67
1,2-Dichlorobenzene
Concen: 3.157 ug/L
RT: 13.867 min Scan# 1965
Delta R.T. -0.000 min
Lab File: VW027765.D
Acq: 19 Dec 2023 08:46

Instrument :
MSVOA_W
ClientSampleId :

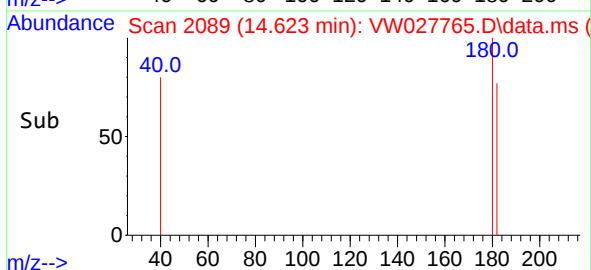
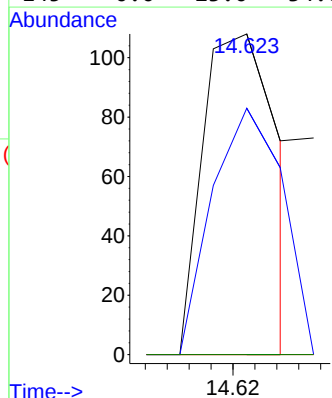
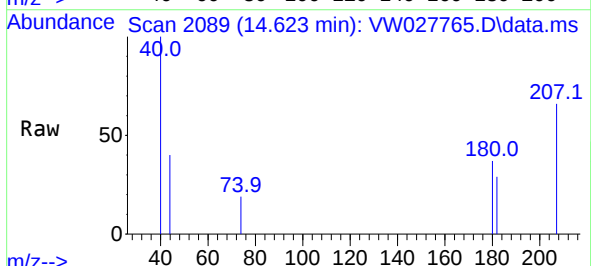


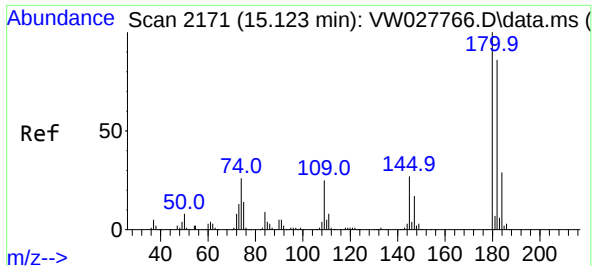
Tgt Ion:146 Resp: 226
Ion Ratio Lower Upper
146 100
111 0.0 32.1 48.1#
148 32.4 53.0 79.4#



#69
1,3,5-Trichlorobenzene
Concen: 1.798 ug/L
RT: 14.623 min Scan# 2089
Delta R.T. 0.006 min
Lab File: VW027765.D
Acq: 19 Dec 2023 08:46

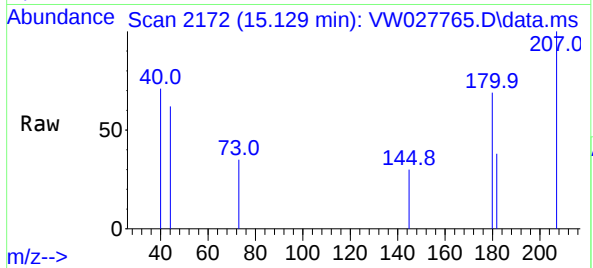
Tgt Ion:180 Resp: 103
Ion Ratio Lower Upper
180 100
182 71.8 72.6 109.0#
184 0.0 23.0 34.6#
145 0.0 23.0 34.6#



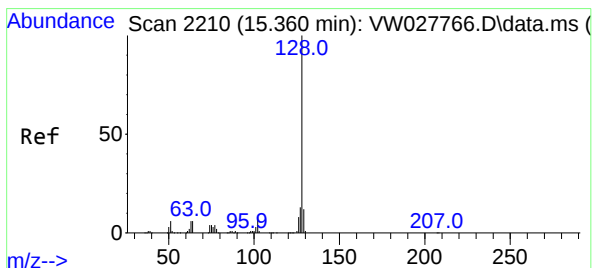
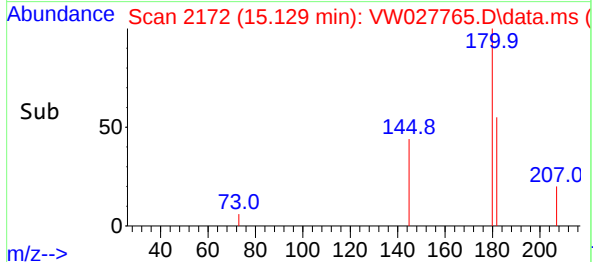
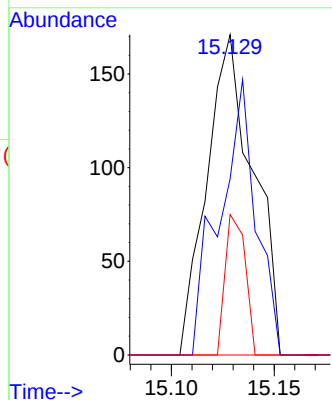


#70
1,2,4-trichlorobenzene
Concen: 5.718 ug/L
RT: 15.129 min Scan# 2171
Delta R.T. -0.000 min
Lab File: VW027765.D
Acq: 19 Dec 2023 08:46

Instrument :
MSVOA_W
ClientSampleId :

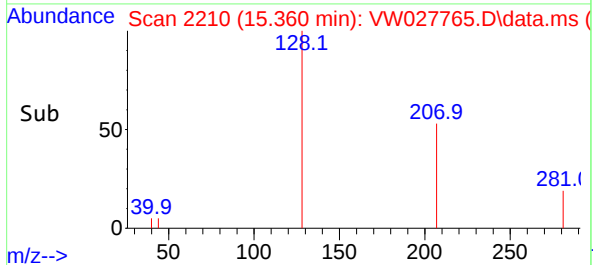
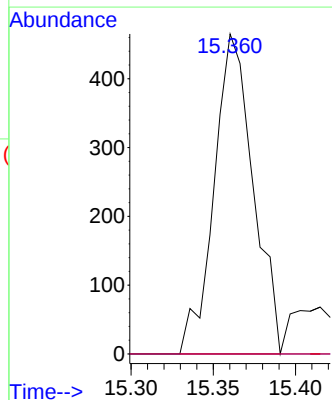
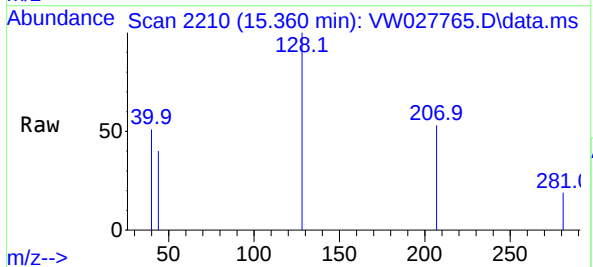


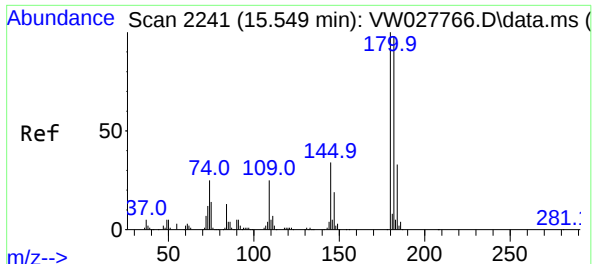
Tgt Ion:180 Resp: 269
Ion Ratio Lower Upper
180 100
182 67.7 69.7 104.5#
145 19.0 24.1 36.1#



#71
Naphthalene
Concen: 9.236 ug/L
RT: 15.360 min Scan# 2210
Delta R.T. 0.006 min
Lab File: VW027765.D
Acq: 19 Dec 2023 08:46

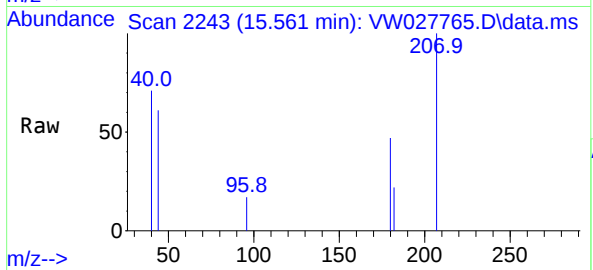
Tgt Ion:128 Resp: 770
Ion Ratio Lower Upper
128 100
127 0.0 10.2 15.2#
129 0.0 8.6 12.8#





#72
 1,2,3-Trichlorobenzene
 Concen: 4.932 ug/L
 RT: 15.561 min Scan# 21
 Delta R.T. 0.012 min
 Lab File: VW027765.D
 Acq: 19 Dec 2023 08:46

Instrument :
 MSVOA_W
 ClientSampleId :



Tgt Ion:	180	Resp:	194
Ion	Ratio	Lower	Upper
180	100		
182	88.7	75.5	113.3
145	0.0	25.0	37.6#

