

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121223\
 Data File : VW027588.D
 Acq On : 12 Dec 2023 12:01
 Operator : SY/MD
 Sample : 05750-02RE
 Misc : 4.62g/10mL/MSVOA_W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Dec 13 04:27:20 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120623SMA.M
 Quant Title : SFAM01.0
 QLast Update : Wed Dec 13 04:25:58 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	14455	25.000	ug/L	# 0.00
28) Chlorobenzene-d5	11.629	117	10861	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	2176	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.363	65	7233	24.865	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	99.480%
7) Chloroethane-d5	2.905	69	5642	26.756	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	107.040%
11) 1,1-Dichloroethene-d2	4.021	65	1282	10.416	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	41.680%#
21) 2-Butanone-d5	7.283	46	288	3.778	ug/L	0.20
Spiked Amount	50.000	Range	20 - 135	Recovery	=	7.560%#
24) Chloroform-d	7.648	84	11186	25.925	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	103.720%
26) 1,2-Dichloroethane-d4	8.307	65	5792	26.251	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	105.000%
32) Benzene-d6	8.276	84	22366	29.238	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	116.960%
36) 1,2-Dichloropropane-d6	9.276	67	7179	31.834	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	127.320%#
41) Toluene-d8	10.325	98	16430	24.548	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	98.200%
43) trans-1,3-Dichloroprop...	10.581	79	1797	20.606	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	82.440%
47) 2-Hexanone-d5	10.916	63	117	2.785	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	5.560%#
56) 1,1,2,2-Tetrachloroeth...	12.690	84	3189	17.192	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	68.760%
66) 1,2-Dichlorobenzene-d4	13.848	152	1880	24.647	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	98.600%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.046	85	74	0.382	ug/L	98
8) Chloroethane	3.180	64	94	0.595	ug/L	87
12) 1,1-Dichloroethene	4.045	96	131	0.635	ug/L	# 1
13) Acetone	4.125	43	803	10.928	ug/L	71
15) Methyl Acetate	4.411	43	96	0.748	ug/L	100
18) Methyl tert-butyl Ether	5.502	73	211	0.615	ug/L	99
20) cis-1,2-Dichloroethene	7.161	96	118	0.517	ug/L	82
23) Bromochloromethane	7.520	128	46	0.512	ug/L	# 19
34) Trichloroethene	9.099	95	5744	28.054	ug/L	91
37) 1,2-Dichloropropane	9.276	63	999	5.048	ug/L	99
39) cis-1,3-Dichloropropene	10.056	75	387	1.355	ug/L	# 45
40) 4-Methyl-2-pentanone	10.203	43	210	1.570	ug/L	# 58
42) Toluene	10.380	91	262	0.330	ug/L	81
45) 1,1,2-Trichloroethane	10.770	97	67	0.486	ug/L	# 53
46) Tetrachloroethene	10.861	164	26875	184.115	ug/L	81
48) 2-Hexanone	10.971	43	210	2.227	ug/L	# 56
49) Dibromochloromethane	10.922	129	138	1.013	ug/L	97
52) Ethylbenzene	11.739	91	574	0.637	ug/L	# 82
53) m,p-Xylene	11.751	106	97	0.292	ug/L	90

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

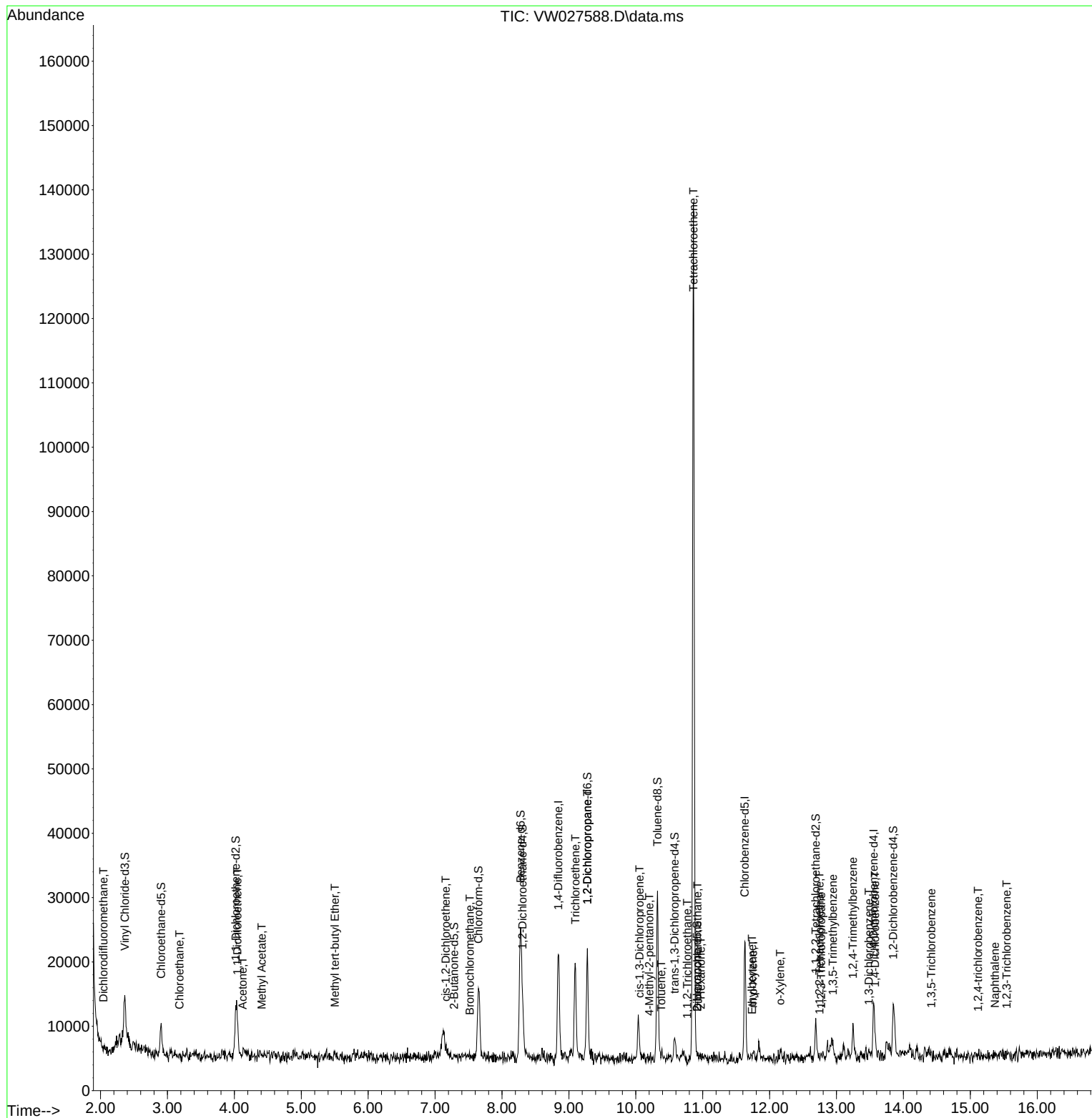
54) o-Xylene	12.160	106	274	0.908	ug/L	67
57) 1,1,2,2-Tetrachloroethane	12.745	83	146	0.814	ug/L #	85
61) 1,2,3-Trichloropropane	12.769	75	79	1.505	ug/L #	43
62) 1,3,5-Trimethylbenzene	12.946	105	764	2.875	ug/L	90
63) 1,2,4-Trimethylbenzene	13.245	105	2595	9.805	ug/L	94
64) 1,3-Dichlorobenzene	13.483	146	84	0.610	ug/L #	89
65) 1,4-Dichlorobenzene	13.574	146	78	0.568	ug/L #	65
69) 1,3,5-Trichlorobenzene	14.415	180	42	0.454	ug/L #	1
70) 1,2,4-trichlorobenzene	15.117	180	68	0.946	ug/L #	77
71) Naphthalene	15.366	128	230	1.522	ug/L #	78
72) 1,2,3-Trichlorobenzene	15.543	180	52	0.845	ug/L #	47

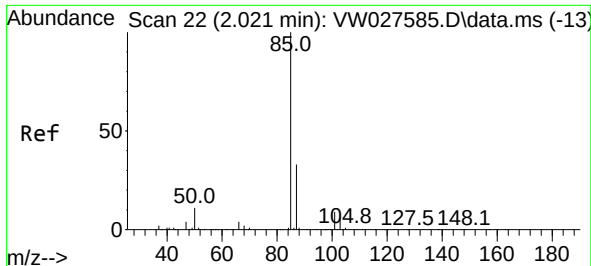
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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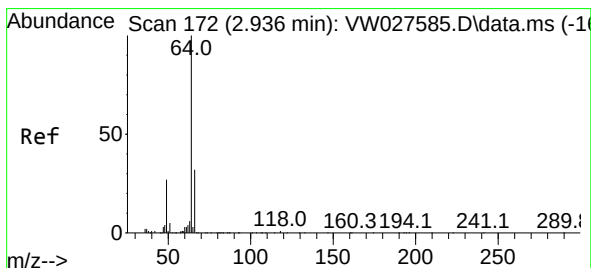
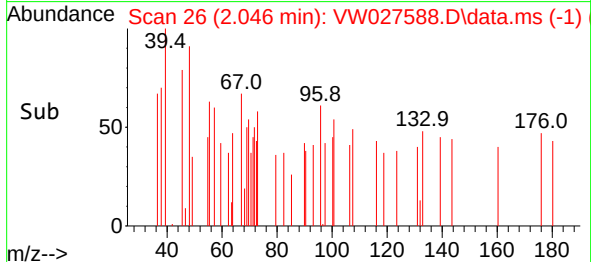
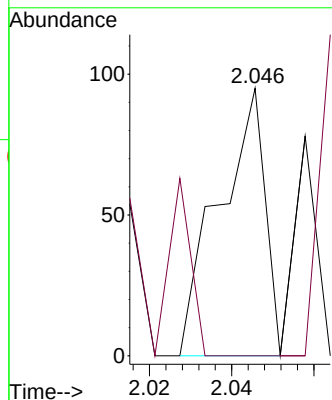
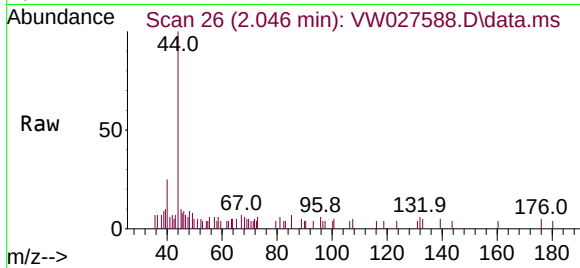




#2
Dichlorodifluoromethane
Concen: 0.382 ug/L
RT: 2.046 min Scan# 20
Delta R.T. 0.024 min
Lab File: VW027588.D
Acq: 12 Dec 2023 12:01

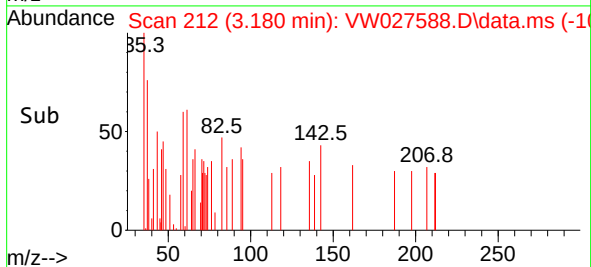
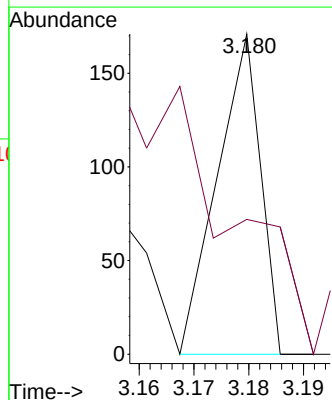
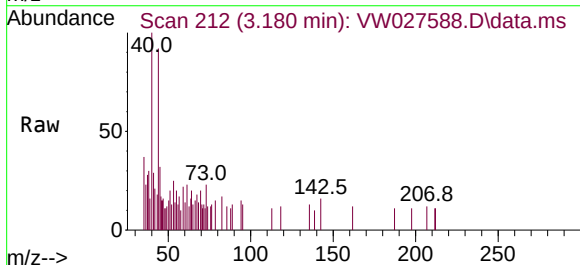
Instrument :
MSVOA_W
ClientSampleId :

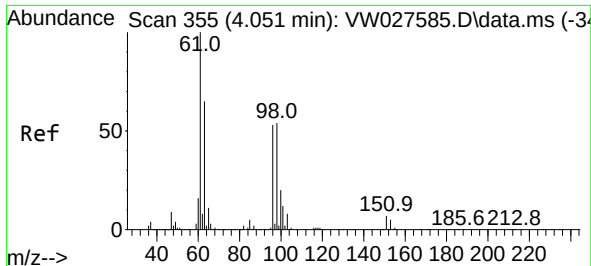
Tgt Ion: 85 Resp: 74
Ion Ratio Lower Upper
85 100
87 31.1 24.0 36.0



#8
Chloroethane
Concen: 0.595 ug/L
RT: 3.180 min Scan# 212
Delta R.T. 0.244 min
Lab File: VW027588.D
Acq: 12 Dec 2023 12:01

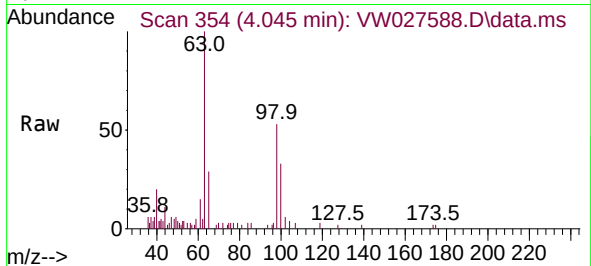
Tgt Ion: 64 Resp: 94
Ion Ratio Lower Upper
64 100
66 42.1 24.1 44.7



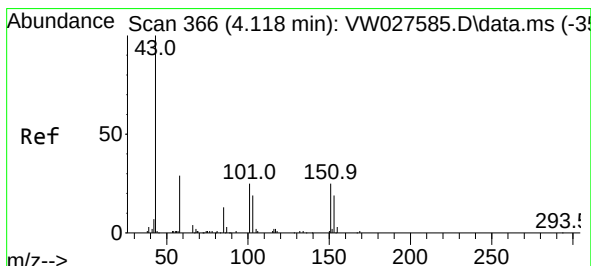
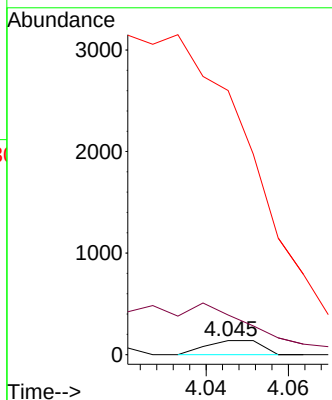
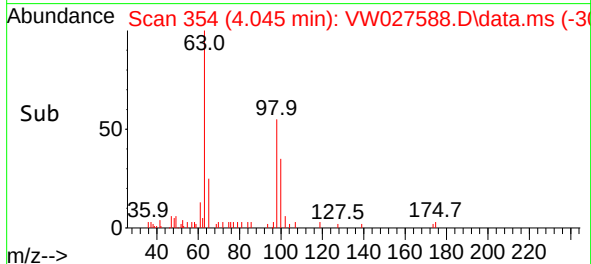


#12
1,1-Dichloroethene
Concen: 0.635 ug/L
RT: 4.045 min Scan# 355
Delta R.T. -0.006 min
Lab File: VW027588.D
Acq: 12 Dec 2023 12:01

Instrument :
MSVOA_W
ClientSampleId :

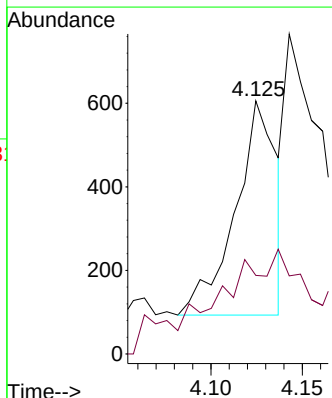
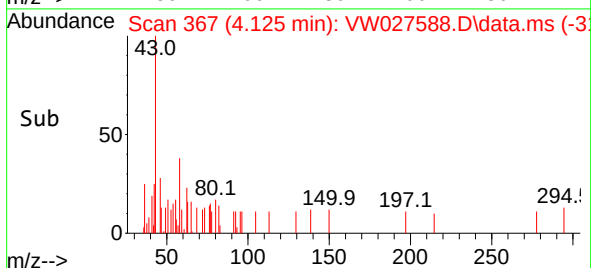
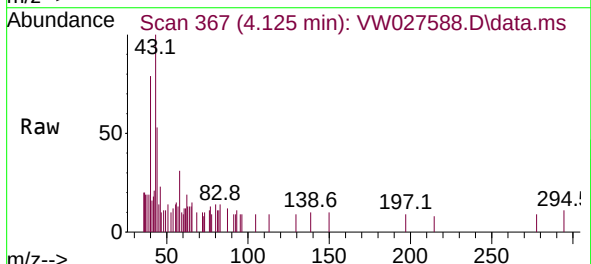


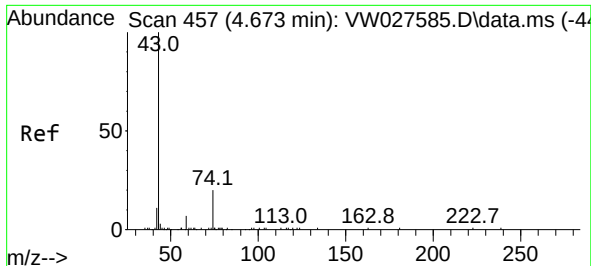
Tgt Ion: 96 Resp: 131
Ion Ratio Lower Upper
96 100
61 280.6 127.8 237.4#
63 1871.2 104.9 194.7#



#13
Acetone
Concen: 10.928 ug/L
RT: 4.125 min Scan# 367
Delta R.T. 0.006 min
Lab File: VW027588.D
Acq: 12 Dec 2023 12:01

Tgt Ion: 43 Resp: 803
Ion Ratio Lower Upper
43 100
58 45.8 0.0 60.0

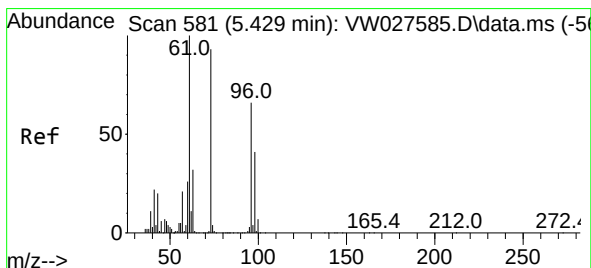
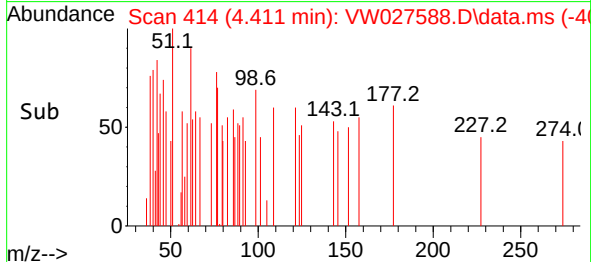
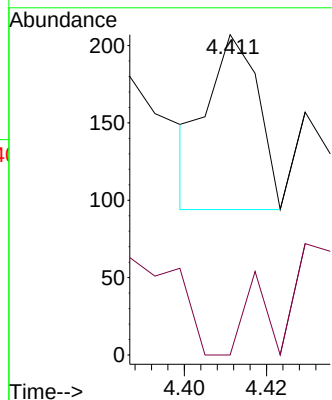
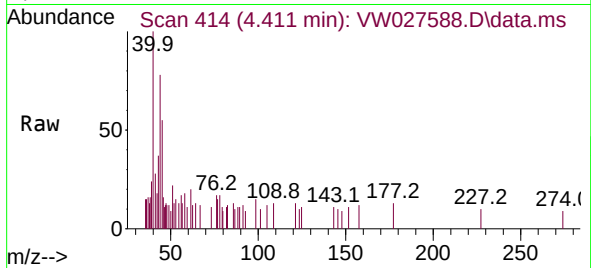




#15
Methyl Acetate
Concen: 0.748 ug/L
RT: 4.411 min Scan# 411
Delta R.T. -0.262 min
Lab File: VW027588.D
Acq: 12 Dec 2023 12:01

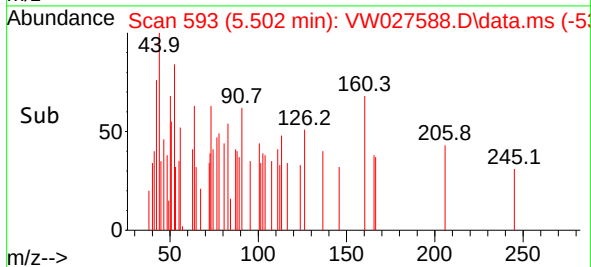
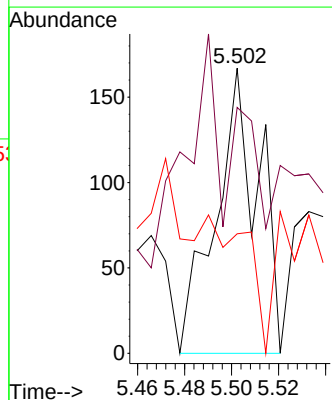
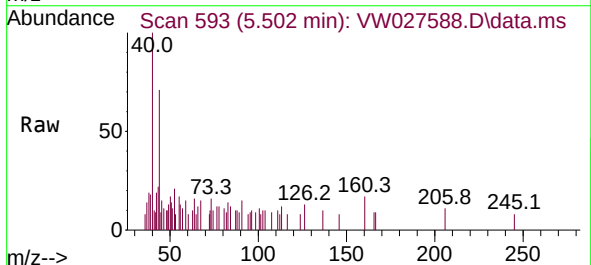
Instrument :
MSVOA_W
ClientSampleId :

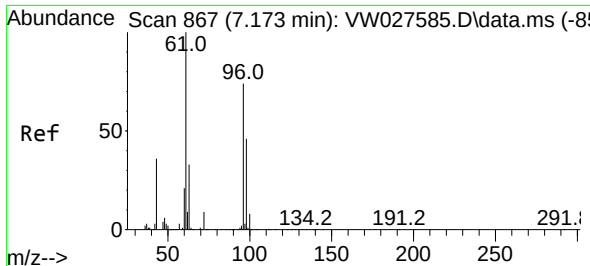
Tgt Ion: 43 Resp: 96
Ion Ratio Lower Upper
43 100
74 20.8 16.8 25.2



#18
Methyl tert-butyl Ether
Concen: 0.615 ug/L
RT: 5.502 min Scan# 593
Delta R.T. 0.073 min
Lab File: VW027588.D
Acq: 12 Dec 2023 12:01

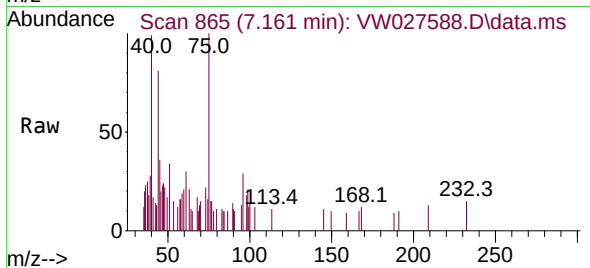
Tgt Ion: 73 Resp: 211
Ion Ratio Lower Upper
73 100
43 23.2 17.8 26.6
57 24.6 19.9 29.9





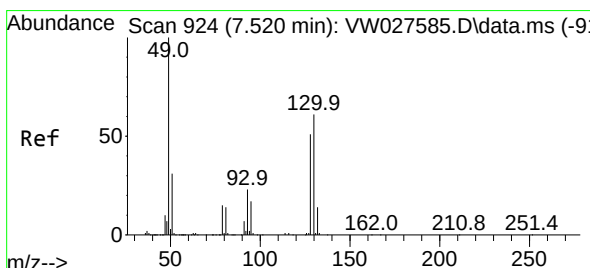
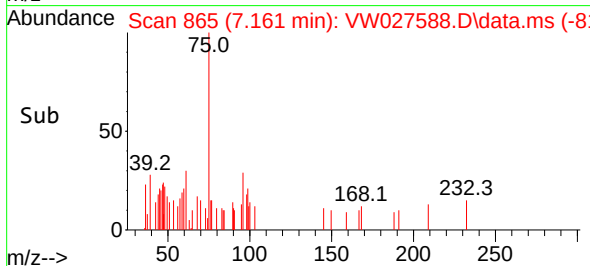
#20
cis-1,2-Dichloroethene
Concen: 0.517 ug/L
RT: 7.161 min Scan# 865
Delta R.T. -0.012 min
Lab File: VW027588.D
Acq: 12 Dec 2023 12:01

Instrument :
MSVOA_W
ClientSampleId :



Tgt Ion: 96 Resp: 118

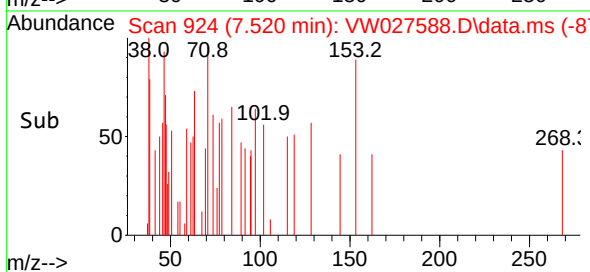
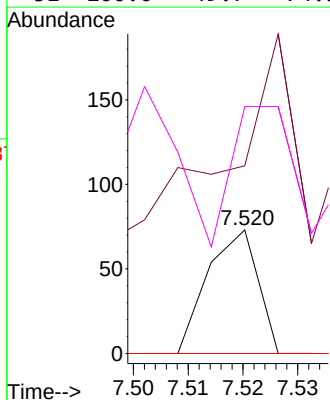
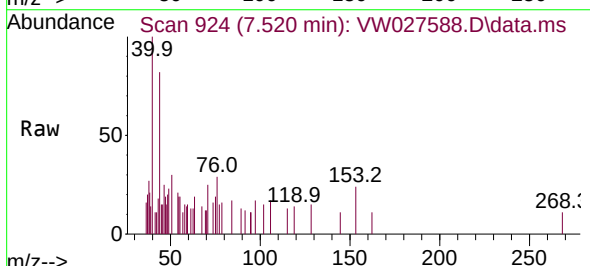
Ion	Ratio	Lower	Upper
96	100		
61	104.5	94.0	174.6
98	62.8	45.1	83.7

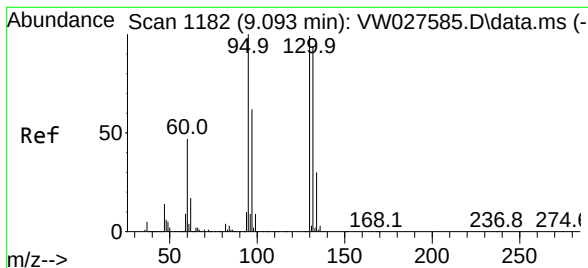


#23
Bromochloromethane
Concen: 0.512 ug/L
RT: 7.520 min Scan# 924
Delta R.T. 0.000 min
Lab File: VW027588.D
Acq: 12 Dec 2023 12:01

Tgt Ion: 128 Resp: 46

Ion	Ratio	Lower	Upper
128	100		
49	152.1	137.8	256.0
130	0.0	91.2	169.4#
51	200.0	49.7	74.5#





#34

Trichloroethene

Concen: 28.054 ug/L

RT: 9.099 min Scan# 1182

Delta R.T. 0.006 min

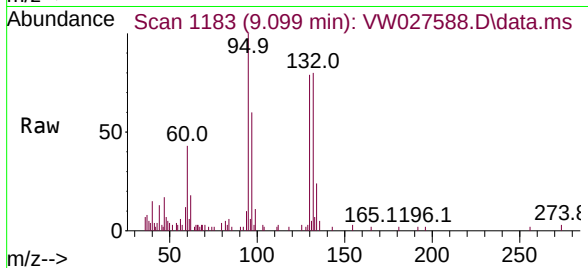
Lab File: VW027588.D

Acq: 12 Dec 2023 12:01

Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion: 95 Resp: 5744

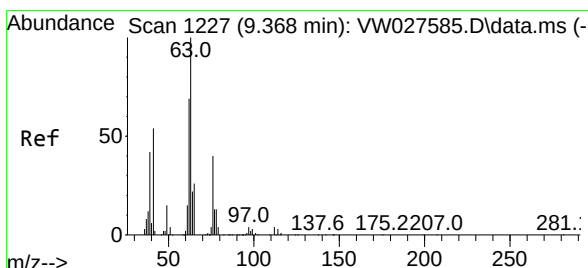
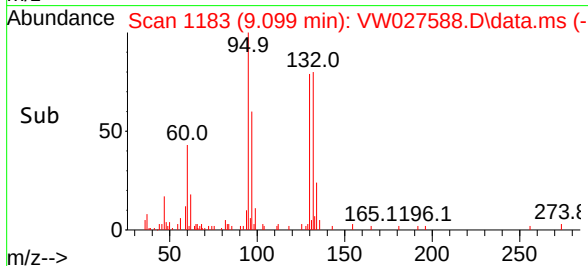
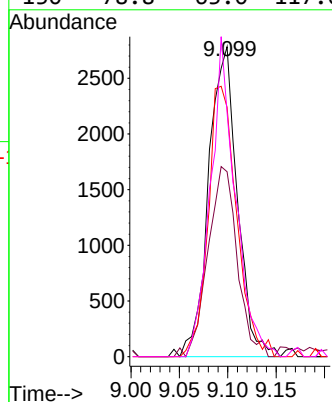
Ion Ratio Lower Upper

95 100

97 59.7 43.0 80.0

132 80.5 64.1 119.1

130 78.8 63.0 117.0



#37

1,2-Dichloropropane

Concen: 5.048 ug/L

RT: 9.276 min Scan# 1212

Delta R.T. -0.091 min

Lab File: VW027588.D

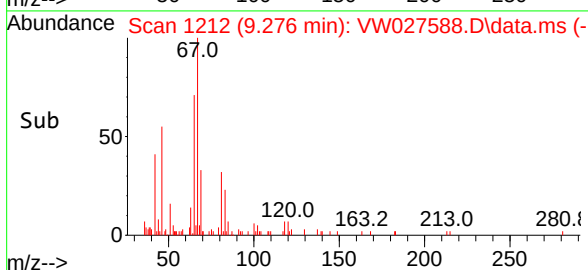
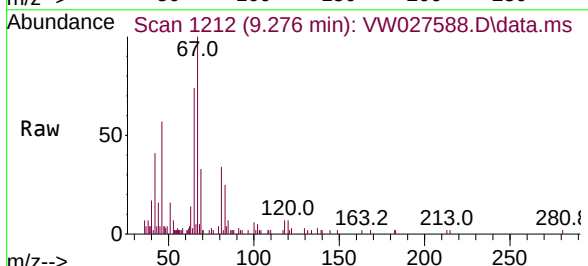
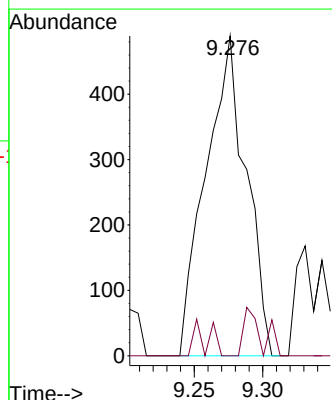
Acq: 12 Dec 2023 12:01

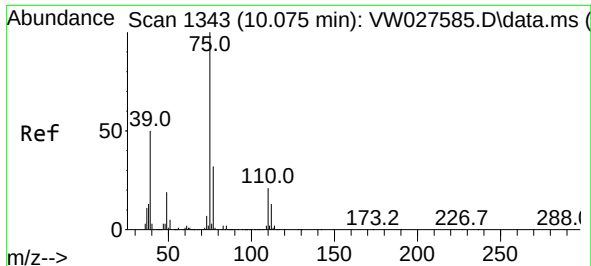
Tgt Ion: 63 Resp: 999

Ion Ratio Lower Upper

63 100

112 4.8 3.6 5.4

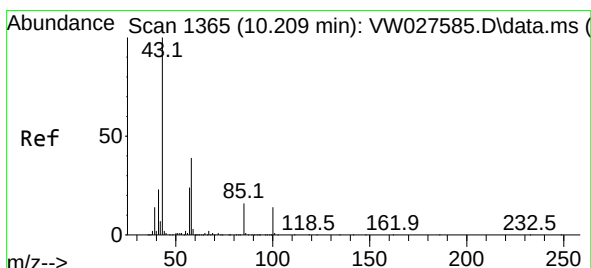
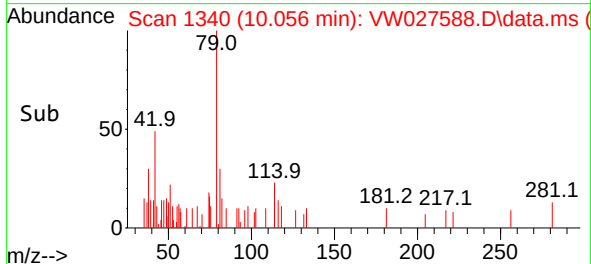
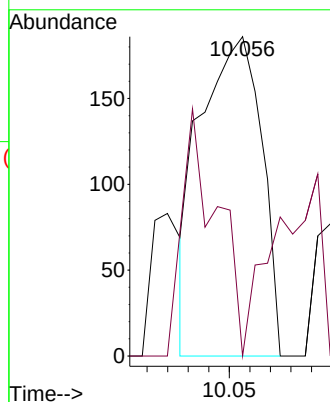
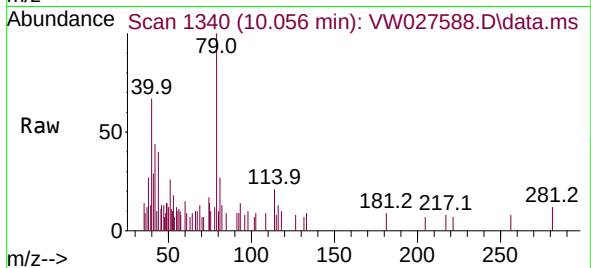




#39
cis-1,3-Dichloropropene
Concen: 1.355 ug/L
RT: 10.056 min Scan# 1340
Delta R.T. -0.018 min
Lab File: VW027588.D
Acq: 12 Dec 2023 12:01

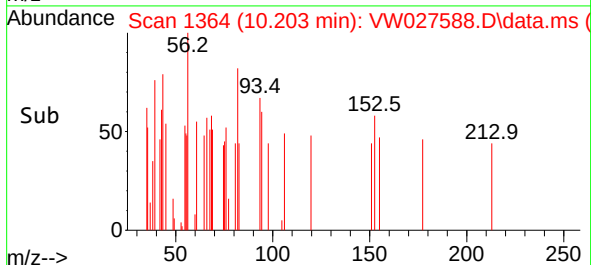
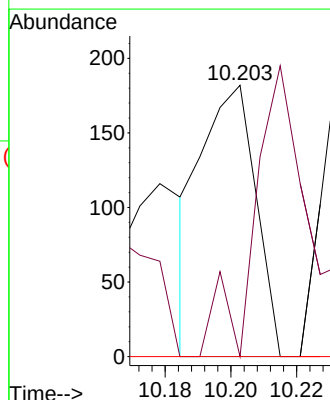
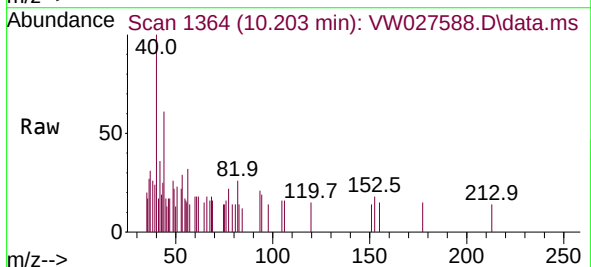
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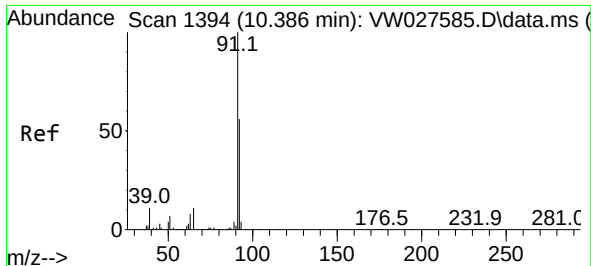
Tgt Ion: 75 Resp: 387
Ion Ratio Lower Upper
75 100
77 0.0 21.1 39.1#



#40
4-Methyl-2-pentanone
Concen: 1.570 ug/L
RT: 10.203 min Scan# 1364
Delta R.T. -0.006 min
Lab File: VW027588.D
Acq: 12 Dec 2023 12:01

Tgt Ion: 43 Resp: 210
Ion Ratio Lower Upper
43 100
58 10.0 29.6 44.4#
100 0.0 11.1 16.7#

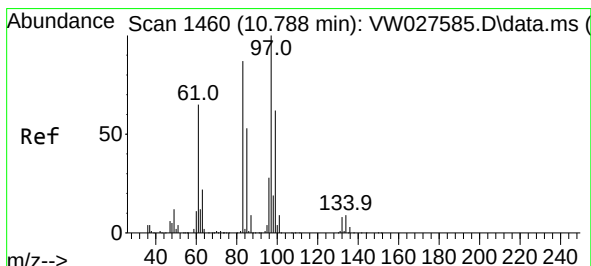
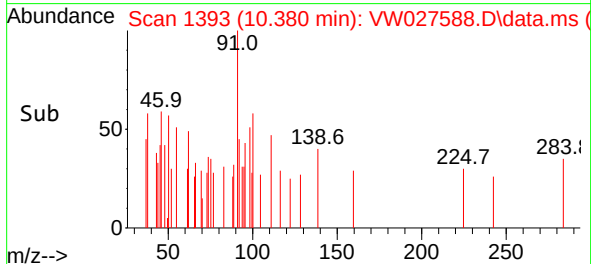
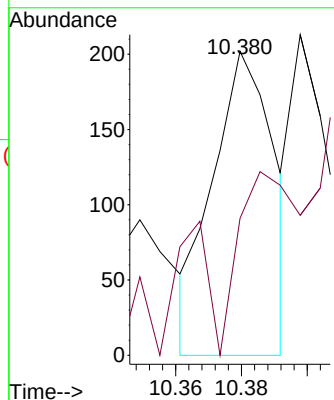
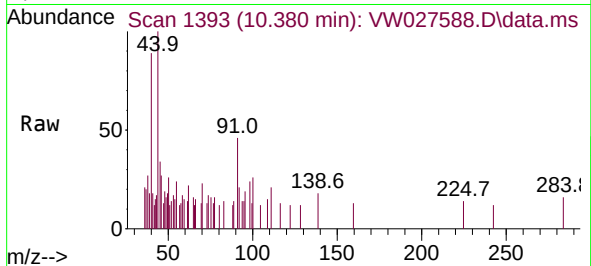




#42
Toluene
Concen: 0.330 ug/L
RT: 10.380 min Scan# 11
Delta R.T. -0.006 min
Lab File: VW027588.D
Acq: 12 Dec 2023 12:01

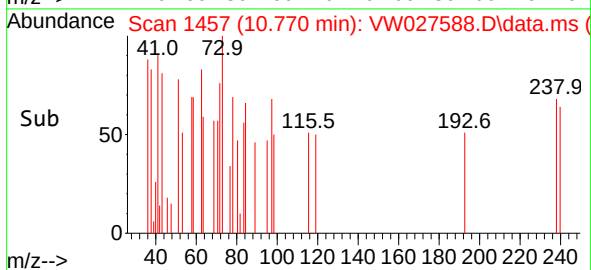
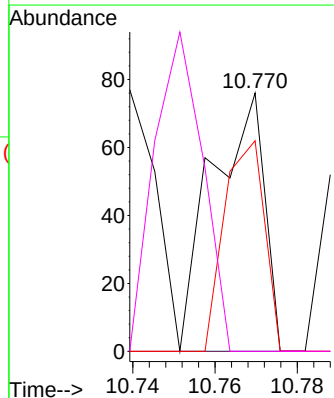
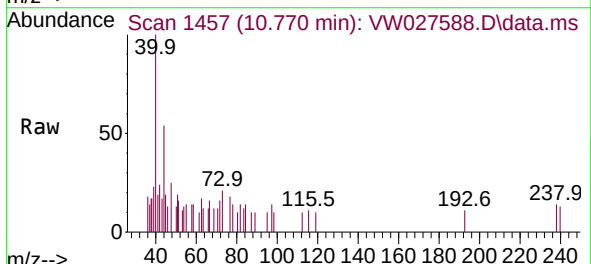
Instrument :
MSVOA_W
ClientSampleId :

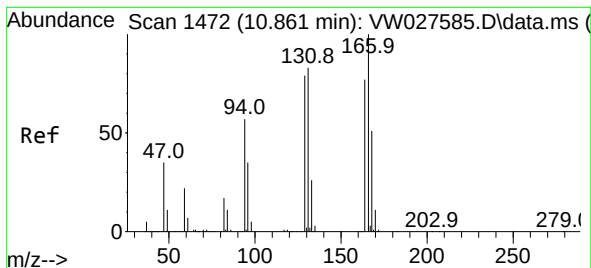
Tgt Ion: 91 Resp: 262
Ion Ratio Lower Upper
91 100
92 45.0 41.4 76.8



#45
1,1,2-Trichloroethane
Concen: 0.486 ug/L
RT: 10.770 min Scan# 1457
Delta R.T. -0.018 min
Lab File: VW027588.D
Acq: 12 Dec 2023 12:01

Tgt Ion: 97 Resp: 67
Ion Ratio Lower Upper
97 100
99 0.0 42.8 79.4#
83 81.6 59.9 111.3
85 0.0 37.9 70.5#





#46

Tetrachloroethene

Concen: 184.115 ug/L

RT: 10.861 min Scan# 1472

Delta R.T. 0.000 min

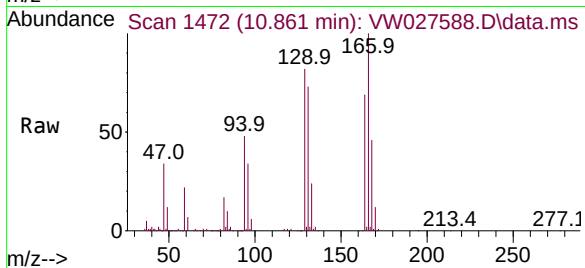
Lab File: VW027588.D

Acq: 12 Dec 2023 12:01

Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion:164 Resp: 26875

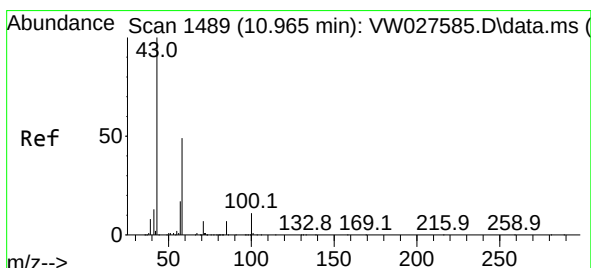
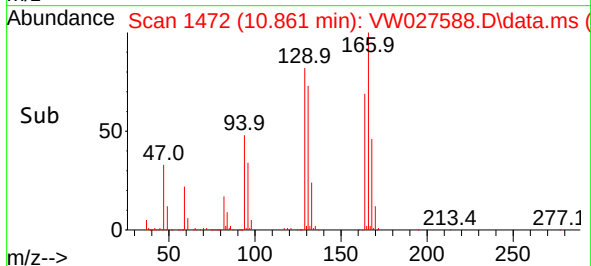
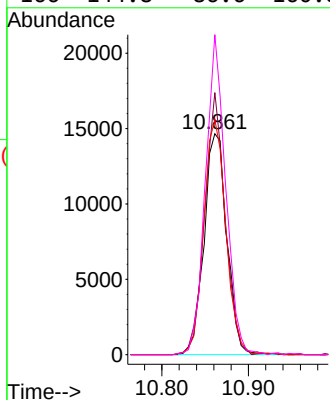
Ion Ratio Lower Upper

164 100

129 118.6 71.0 131.8

131 106.4 61.2 113.6

166 144.8 86.6 160.8



#48

2-Hexanone

Concen: 2.227 ug/L

RT: 10.971 min Scan# 1490

Delta R.T. 0.006 min

Lab File: VW027588.D

Acq: 12 Dec 2023 12:01

Tgt Ion: 43 Resp: 210

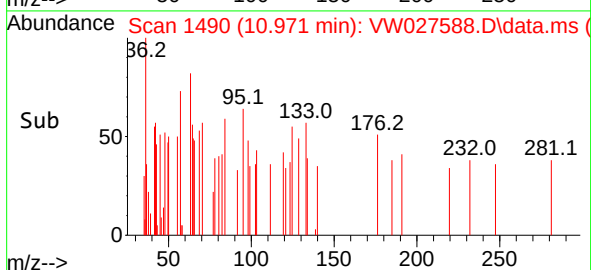
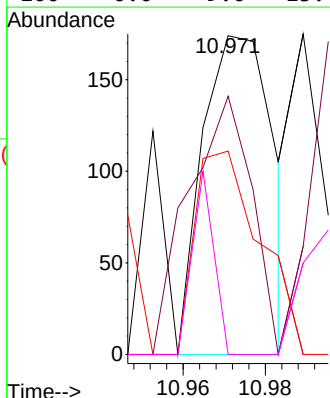
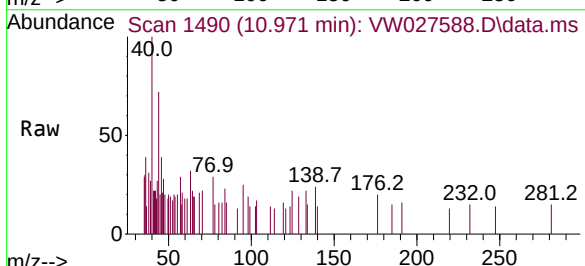
Ion Ratio Lower Upper

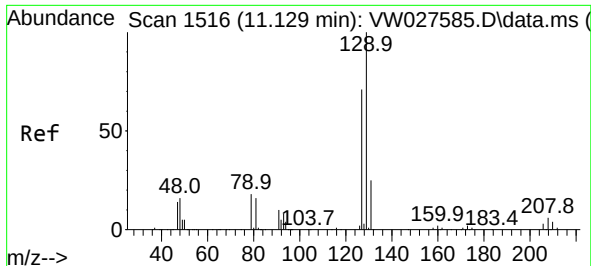
43 100

58 71.9 40.8 61.2#

57 58.6 14.8 22.2#

100 0.0 9.0 13.4#

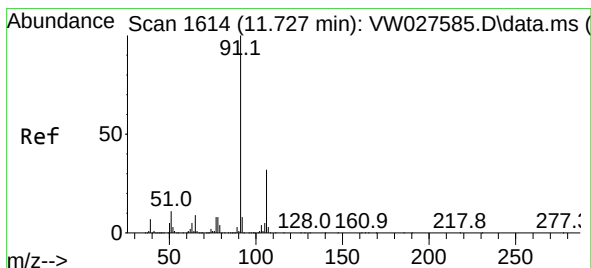
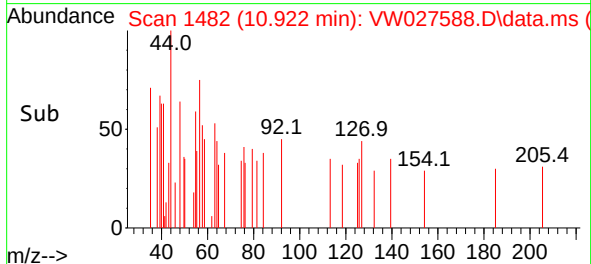
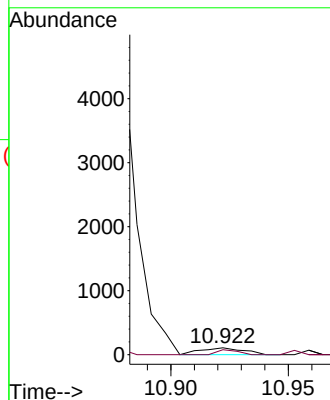
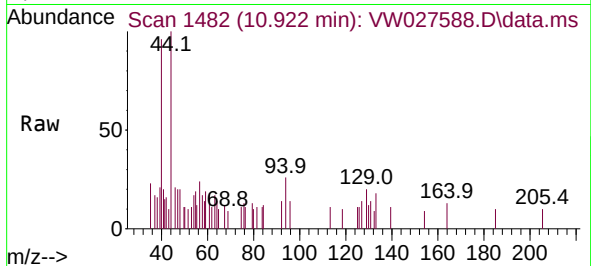




#49
Dibromochloromethane
Concen: 1.013 ug/L
RT: 10.922 min Scan# 14
Delta R.T. -0.207 min
Lab File: VW027588.D
Acq: 12 Dec 2023 12:01

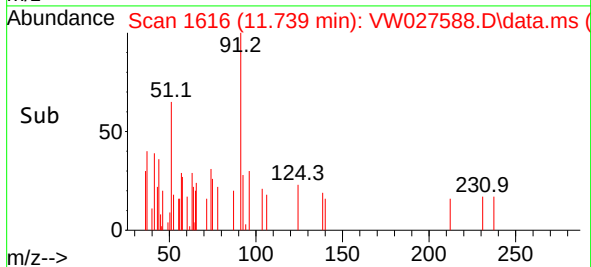
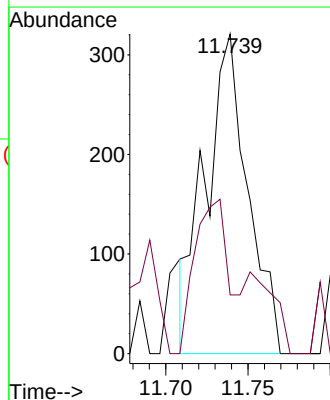
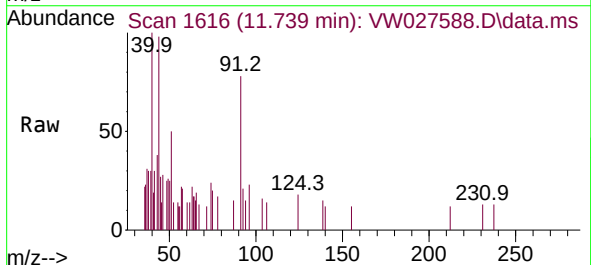
Instrument :
MSVOA_W
ClientSampleId :

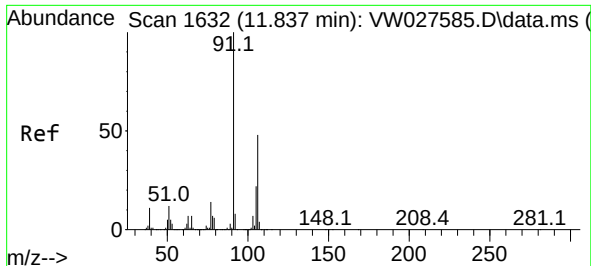
Tgt Ion:129 Resp: 138
Ion Ratio Lower Upper
129 100
127 72.0 52.3 97.1



#52
Ethylbenzene
Concen: 0.637 ug/L
RT: 11.739 min Scan# 1616
Delta R.T. 0.012 min
Lab File: VW027588.D
Acq: 12 Dec 2023 12:01

Tgt Ion: 91 Resp: 574
Ion Ratio Lower Upper
91 100
106 18.4 19.5 36.1#

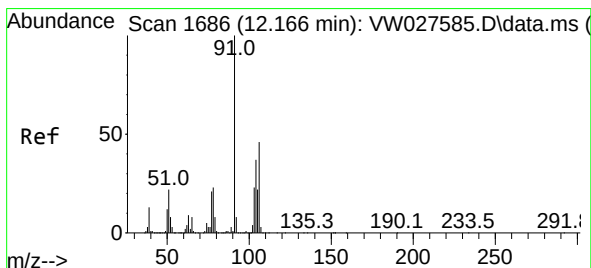
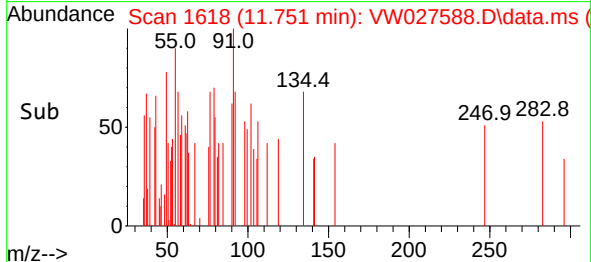
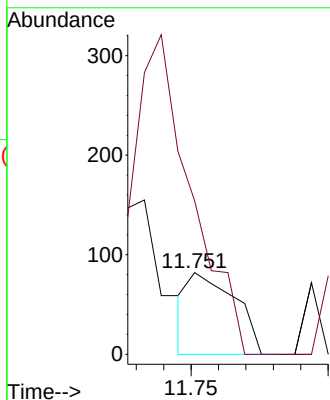
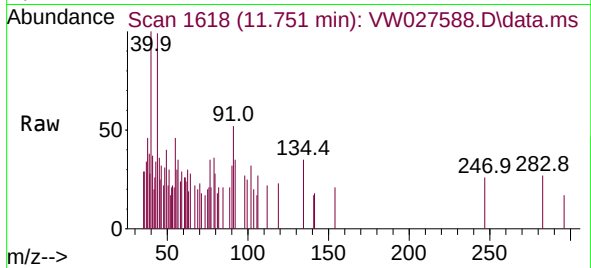




#53
m,p-Xylene
Concen: 0.292 ug/L
RT: 11.751 min Scan# 1
Delta R.T. -0.085 min
Lab File: VW027588.D
Acq: 12 Dec 2023 12:01

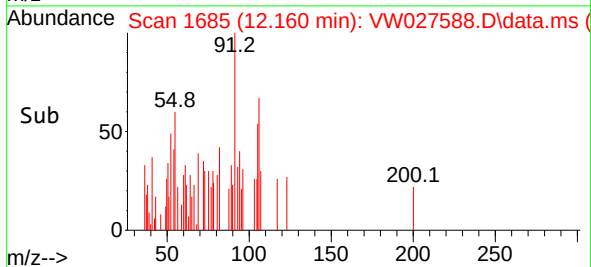
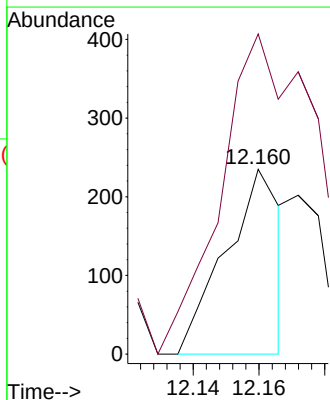
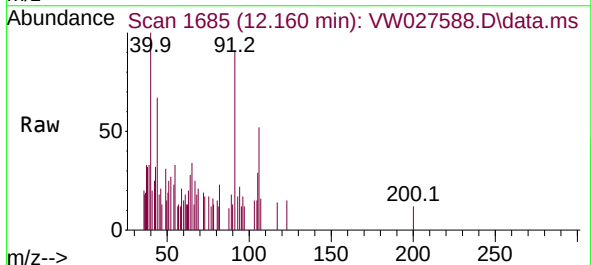
Instrument :
MSVOA_W
ClientSampleId :

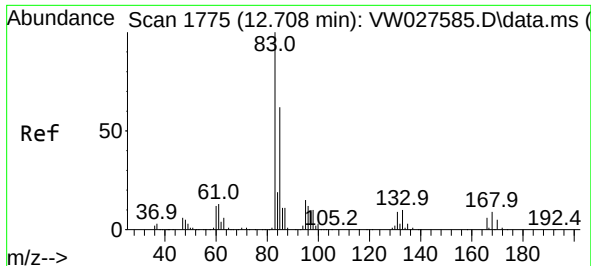
Tgt Ion:106 Resp: 97
Ion Ratio Lower Upper
106 100
91 187.8 142.1 263.9



#54
o-Xylene
Concen: 0.908 ug/L
RT: 12.160 min Scan# 1685
Delta R.T. -0.006 min
Lab File: VW027588.D
Acq: 12 Dec 2023 12:01

Tgt Ion:106 Resp: 274
Ion Ratio Lower Upper
106 100
91 173.2 158.8 295.0





#57

1,1,2-Tetrachloroethane

Concen: 0.814 ug/L

RT: 12.745 min Scan# 1781

Delta R.T. 0.037 min

Lab File: VW027588.D

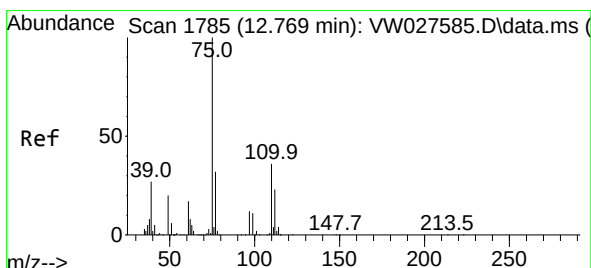
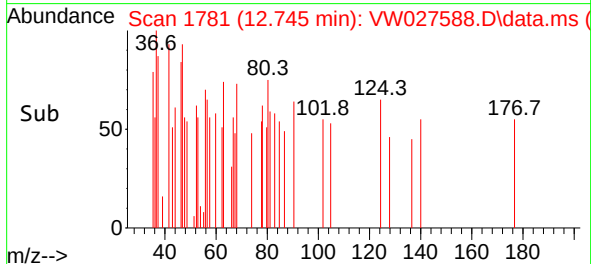
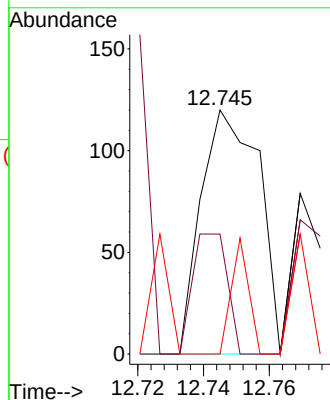
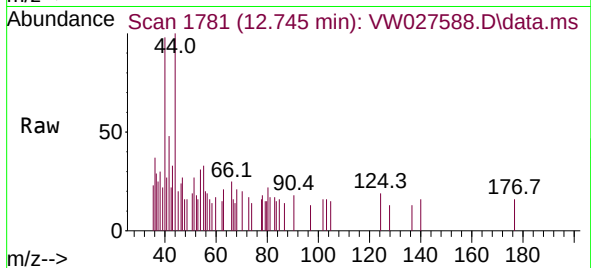
Acq: 12 Dec 2023 12:01

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 83	Resp:	146
Ion Ratio	Lower	Upper
83	100	
85	49.2	41.9 77.7
131	0.0	7.0 10.6#



#61

1,2,3-Trichloropropane

Concen: 1.505 ug/L

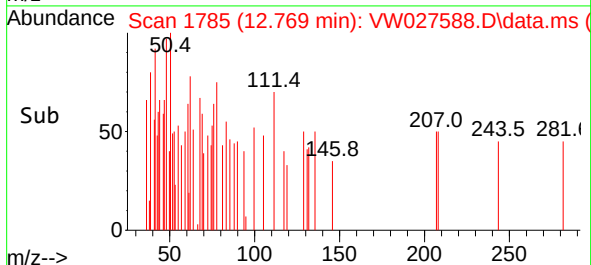
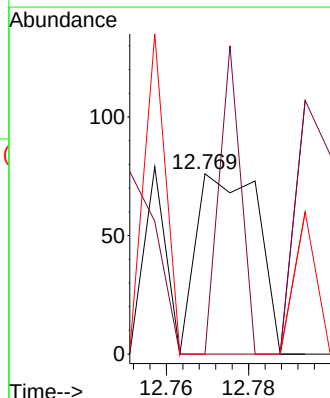
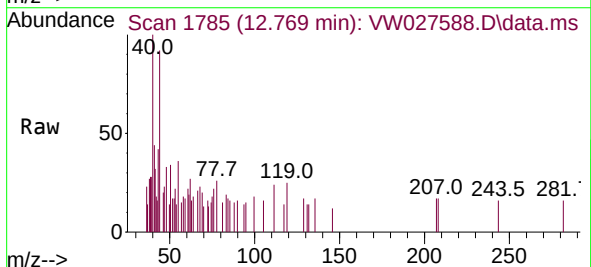
RT: 12.769 min Scan# 1785

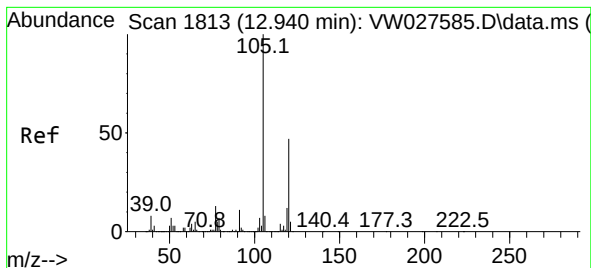
Delta R.T. 0.000 min

Lab File: VW027588.D

Acq: 12 Dec 2023 12:01

Tgt Ion: 75	Resp:	79
Ion Ratio	Lower	Upper
75	100	
77	62.0	26.6 39.8#
110	0.0	30.2 45.4#

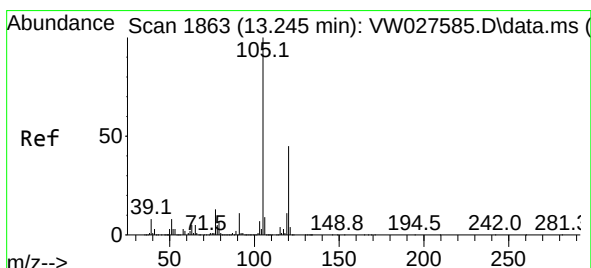
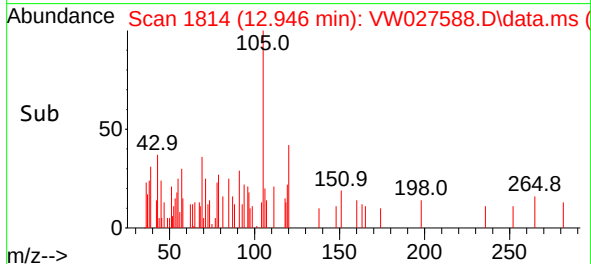
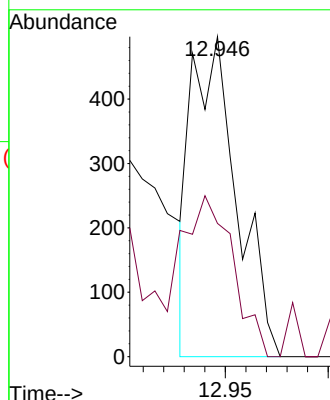
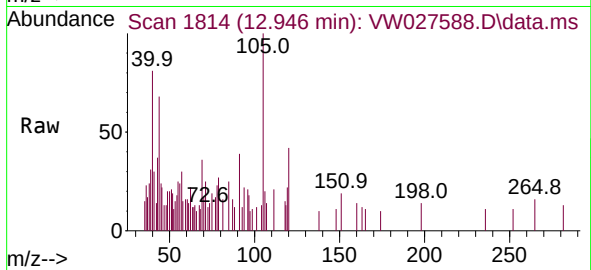




#62
 1,3,5-Trimethylbenzene
 Concen: 2.875 ug/L
 RT: 12.946 min Scan# 1814
 Delta R.T. 0.006 min
 Lab File: VW027588.D
 Acq: 12 Dec 2023 12:01

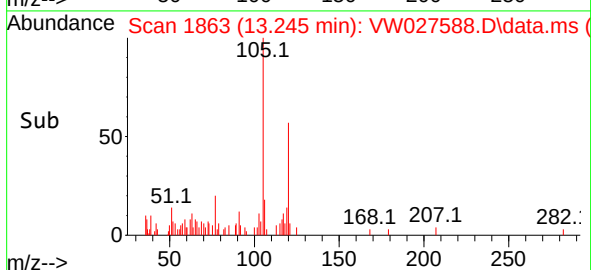
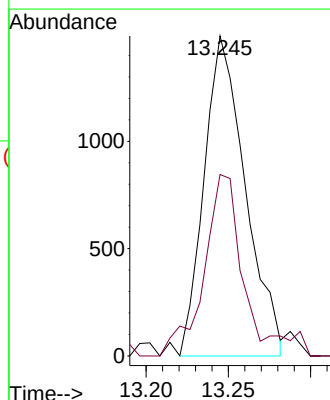
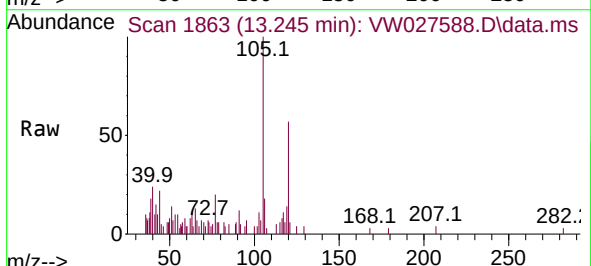
Instrument :
 MSVOA_W
 ClientSampleId :

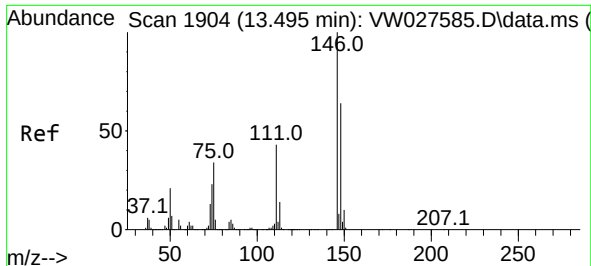
Tgt Ion:105 Resp: 764
 Ion Ratio Lower Upper
 105 100
 120 55.5 38.7 58.1



#63
 1,2,4-Trimethylbenzene
 Concen: 9.805 ug/L
 RT: 13.245 min Scan# 1863
 Delta R.T. 0.000 min
 Lab File: VW027588.D
 Acq: 12 Dec 2023 12:01

Tgt Ion:105 Resp: 2595
 Ion Ratio Lower Upper
 105 100
 120 49.7 36.9 55.3

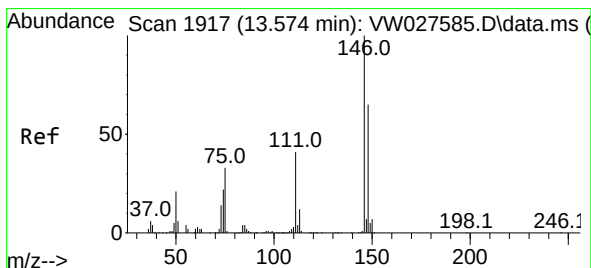
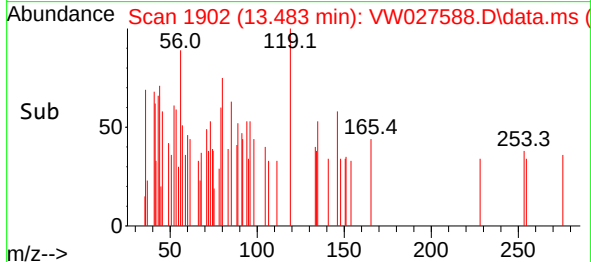
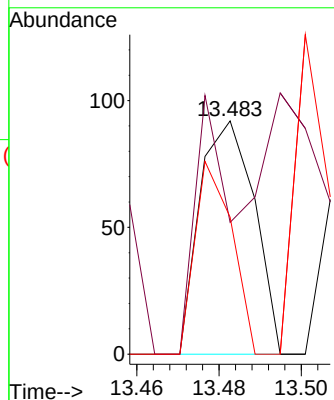
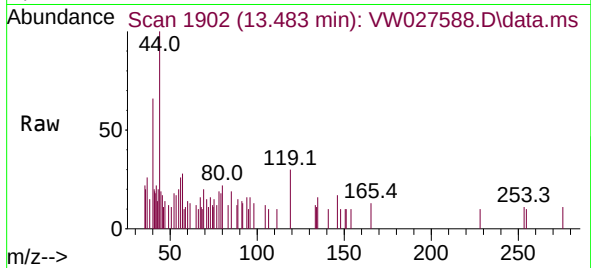




#64
1,3-Dichlorobenzene
Concen: 0.610 ug/L
RT: 13.483 min Scan# 1902
Delta R.T. -0.012 min
Lab File: VW027588.D
Acq: 12 Dec 2023 12:01

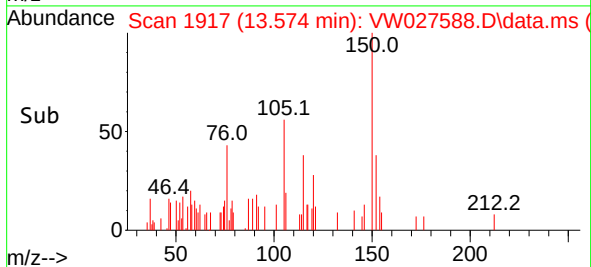
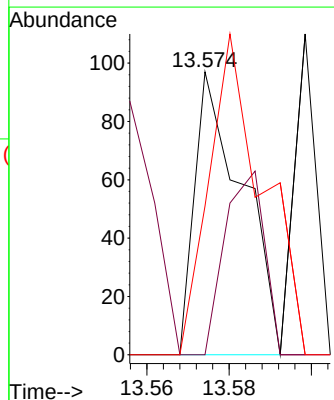
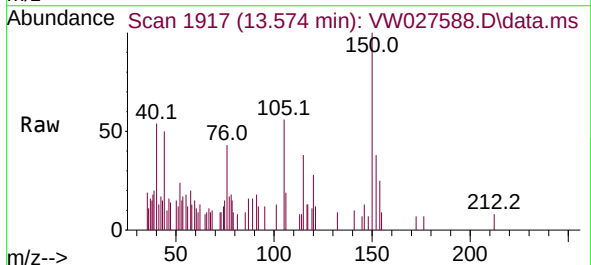
Instrument :
MSVOA_W
ClientSampleId :

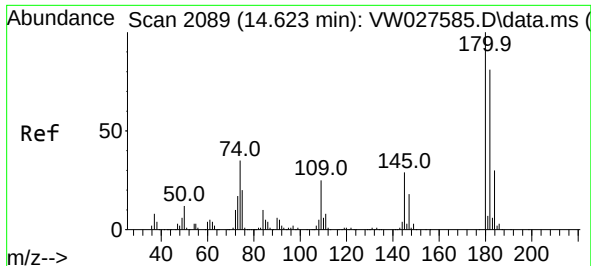
Tgt Ion:146 Resp: 84
Ion Ratio Lower Upper
146 100
111 56.5 29.5 54.7#
148 58.7 42.8 79.6



#65
1,4-Dichlorobenzene
Concen: 0.568 ug/L
RT: 13.574 min Scan# 1917
Delta R.T. 0.000 min
Lab File: VW027588.D
Acq: 12 Dec 2023 12:01

Tgt Ion:146 Resp: 78
Ion Ratio Lower Upper
146 100
111 0.0 28.9 53.7#
148 52.6 44.9 83.5





#69

1,3,5-Trichlorobenzene

Concen: 0.454 ug/L

RT: 14.415 min Scan# 2089

Delta R.T. -0.207 min

Lab File: VW027588.D

Acq: 12 Dec 2023 12:01

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:180 Resp: 42

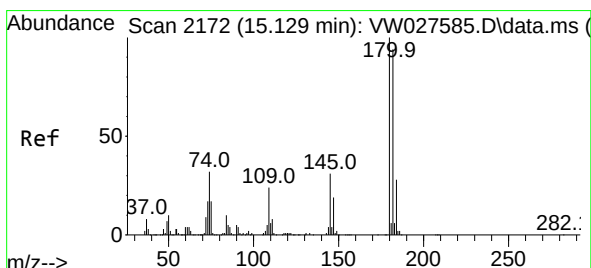
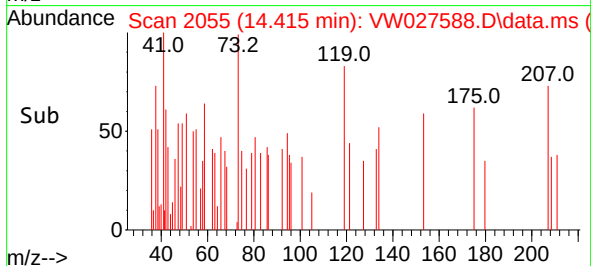
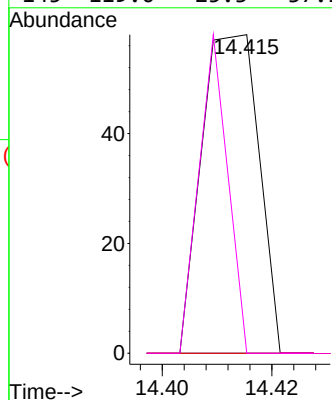
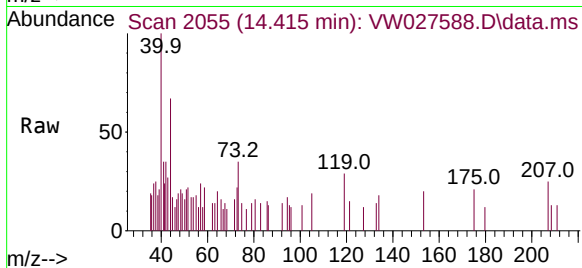
Ion Ratio Lower Upper

180 100

182 0.0 73.2 109.8#

184 100.0 25.4 38.2#

145 119.0 25.3 37.9#



#70

1,2,4-trichlorobenzene

Concen: 0.946 ug/L

RT: 15.117 min Scan# 2170

Delta R.T. -0.012 min

Lab File: VW027588.D

Acq: 12 Dec 2023 12:01

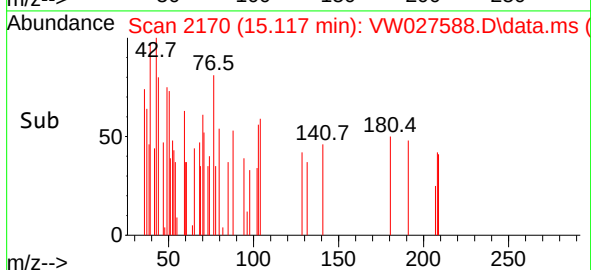
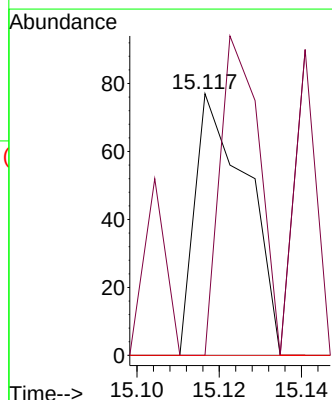
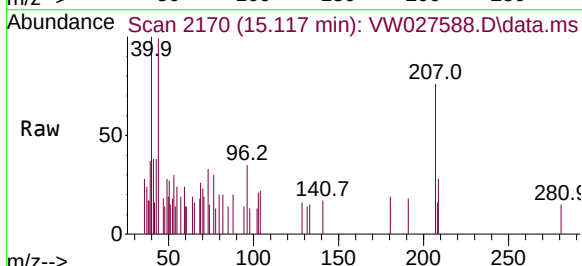
Tgt Ion:180 Resp: 68

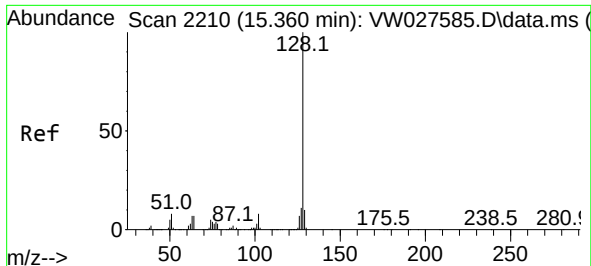
Ion Ratio Lower Upper

180 100

182 91.2 78.7 118.1

145 72.1 26.8 40.2#

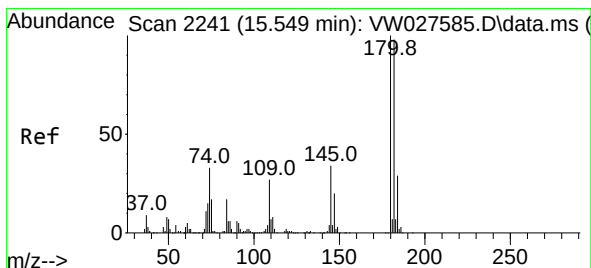
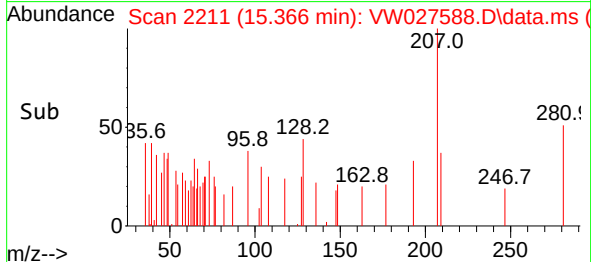
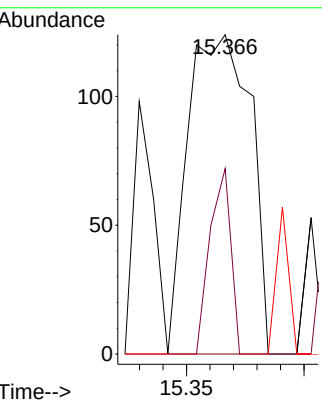
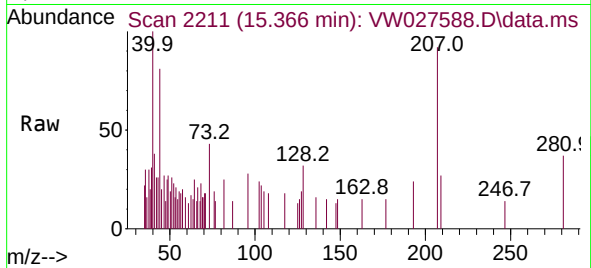




#71
Naphthalene
Concen: 1.522 ug/L
RT: 15.366 min Scan# 21
Delta R.T. 0.006 min
Lab File: VW027588.D
Acq: 12 Dec 2023 12:01

Instrument :
MSVOA_W
ClientSampleId :

Tgt Ion:128 Resp: 230
Ion Ratio Lower Upper
128 100
127 19.6 10.3 15.5#
129 0.0 8.6 12.8#



#72
1,2,3-Trichlorobenzene
Concen: 0.845 ug/L
RT: 15.543 min Scan# 2240
Delta R.T. -0.006 min
Lab File: VW027588.D
Acq: 12 Dec 2023 12:01

Tgt Ion:180 Resp: 52
Ion Ratio Lower Upper
180 100
182 42.3 72.4 108.6#
145 0.0 27.4 41.0#

