

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090222\
 Data File : VY010275.D
 Acq On : 02 Sep 2022 12:43
 Operator : KP/MD
 Sample : VIBLK
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VIBLK

Quant Time: Sep 02 16:42:35 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090222S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 02 16:41:46 2022
 Response via : Initial Calibration

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

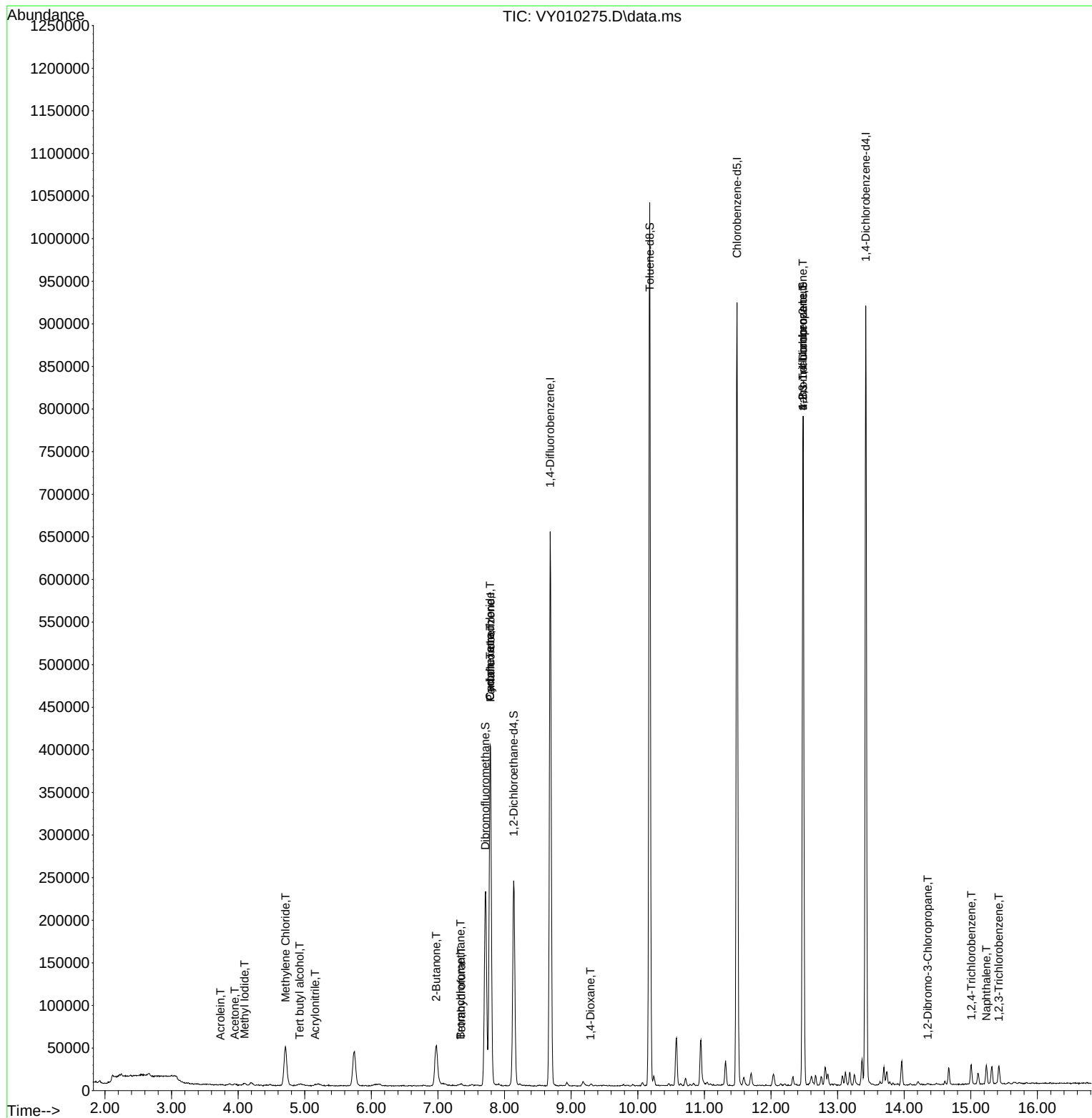
Internal Standards						
1) Pentafluorobenzene	7.789	168	322100	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	552287	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	505921	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	236160	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.137	65	185199	56.074	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	112.140%
35) Dibromofluoromethane	7.710	113	165642	45.052	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	90.100%
50) Toluene-d8	10.179	98	663268	53.882	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	=	107.760%
62) 4-Bromofluorobenzene	12.477	95	236484	47.677	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	95.360%
Target Compounds						
						Qvalue
5) Bromomethane	2.662	94	2405	Below Cal	#	77
10) Methyl Iodide	4.095	142	4644	1.166	ug/l	90
11) Tert butyl alcohol	4.924	59	3578	9.055	ug/l	100
13) Acrolein	3.735	56	1142	2.730	ug/l	97
15) Acrylonitrile	5.155	53	2162	2.166	ug/l	# 92
16) Acetone	3.948	43	2658	3.219	ug/l	97
20) Methylene Chloride	4.710	84	33662	8.448	ug/l	89
25) 2-Butanone	6.972	43	4051	2.990	ug/l	# 88
28) Bromochloromethane	7.338	49	469	1.732	ug/l	# 78
29) Tetrahydrofuran	7.350	42	1577	1.817	ug/l	96
31) Cyclohexane	7.783	56	7285	1.131	ug/l	# 1
38) Carbon Tetrachloride	7.783	117	31253	5.622	ug/l	# 16
49) 1,4-Dioxane	9.289	88	130	4.370	ug/l	# 26
58) 2-Chloroethyl Vinyl ether	9.789	63	566	Below Cal		95
76) 1,2,3-Trichloropropane	12.477	75	120097	42.733	ug/l	# 100
81) trans-1,4-Dichloro-2-b...	12.477	75	120097	89.146	ug/l	# 7
92) 1,2-Dibromo-3-Chloropr...	14.355	75	656	1.028	ug/l	64
93) 1,2,4-Trichlorobenzene	15.007	180	6869	1.496	ug/l	95
95) Naphthalene	15.233	128	17659	1.854	ug/l	# 95
96) 1,2,3-Trichlorobenzene	15.422	180	6820	1.754	ug/l	94

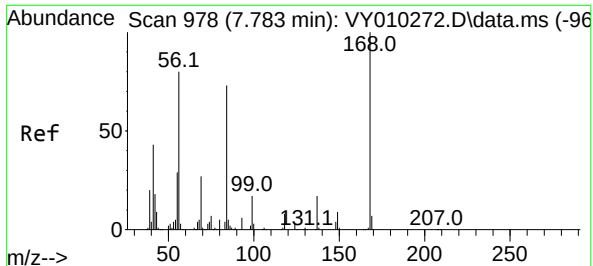
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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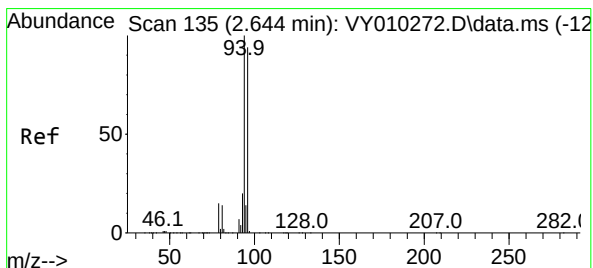
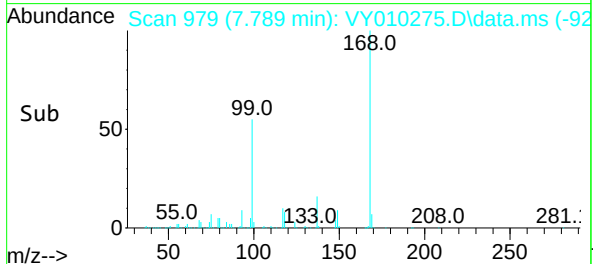
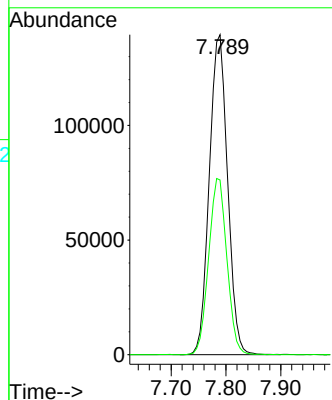
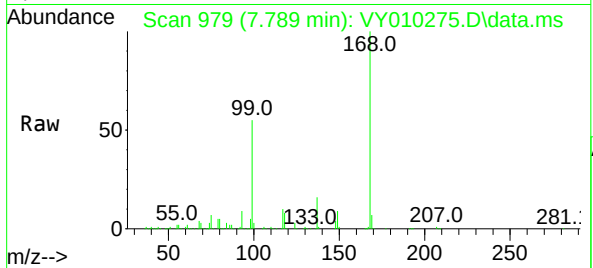




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY010275.D
Acq: 02 Sep 2022 12:43

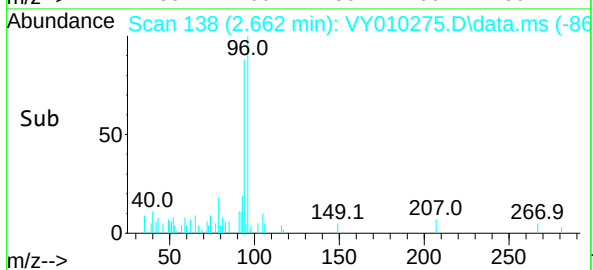
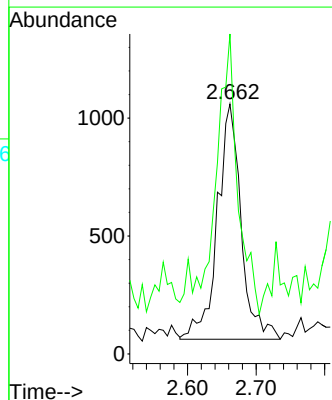
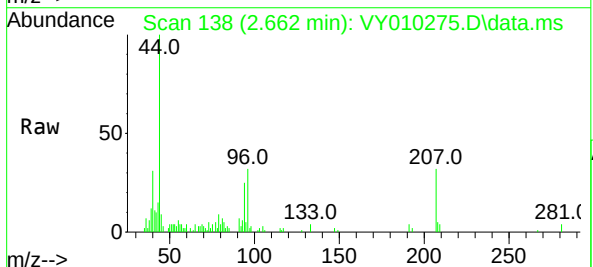
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

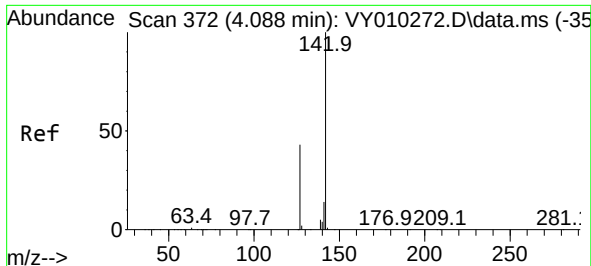
Tgt Ion:168 Resp: 322100
Ion Ratio Lower Upper
168 100
99 54.6 46.9 70.3



#5
Bromomethane
Concen: Below Cal
RT: 2.662 min Scan# 138
Delta R.T. 0.018 min
Lab File: VY010275.D
Acq: 02 Sep 2022 12:43

Tgt Ion: 94 Resp: 2405
Ion Ratio Lower Upper
94 100
96 114.1 73.5 110.3#

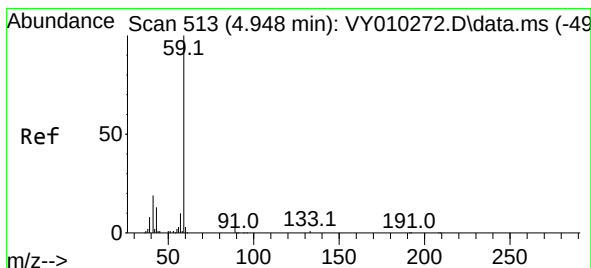
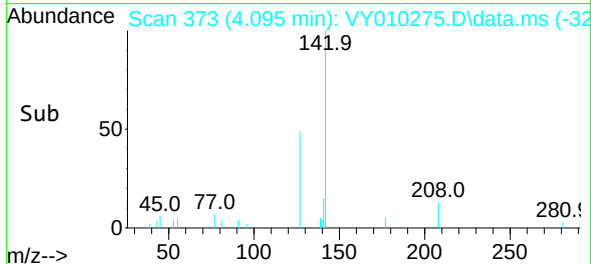
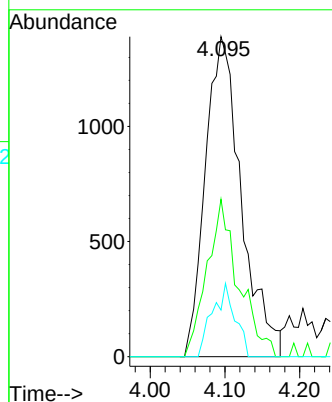
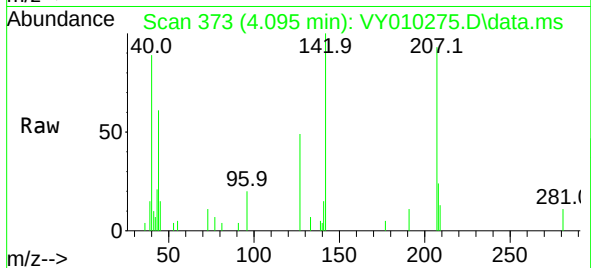




#10
Methyl Iodide
Concen: 1.166 ug/l
RT: 4.095 min Scan# 31
Delta R.T. 0.007 min
Lab File: VY010275.D
Acq: 02 Sep 2022 12:43

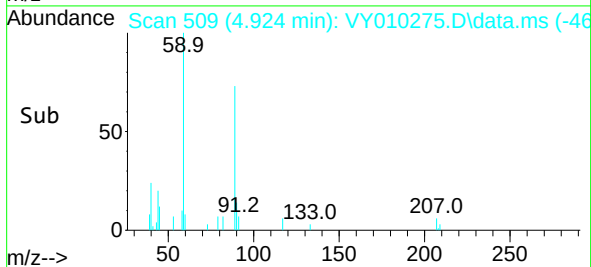
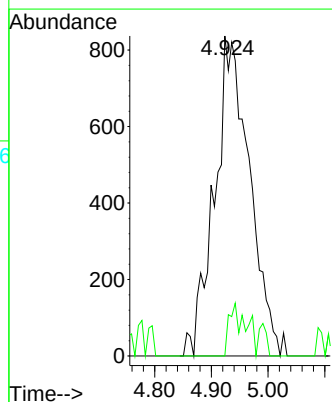
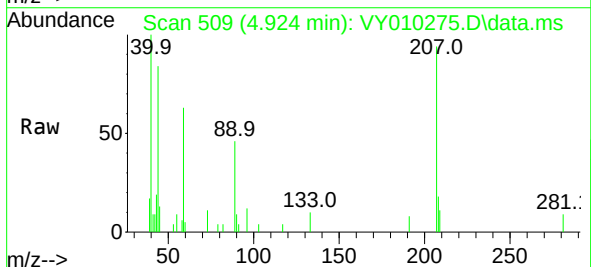
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

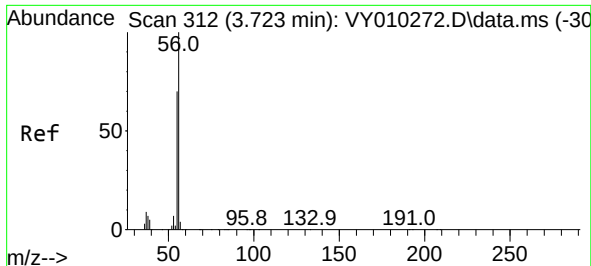
Tgt Ion:142 Resp: 4644
Ion Ratio Lower Upper
142 100
127 43.2 41.5 62.3
141 14.3 11.9 17.9



#11
Tert butyl alcohol
Concen: 9.055 ug/l
RT: 4.924 min Scan# 509
Delta R.T. -0.024 min
Lab File: VY010275.D
Acq: 02 Sep 2022 12:43

Tgt Ion: 59 Resp: 3578
Ion Ratio Lower Upper
59 100
57 7.9 6.4 9.6

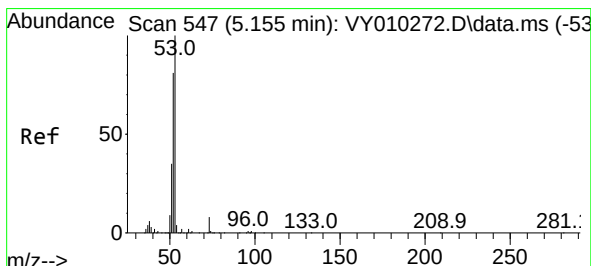
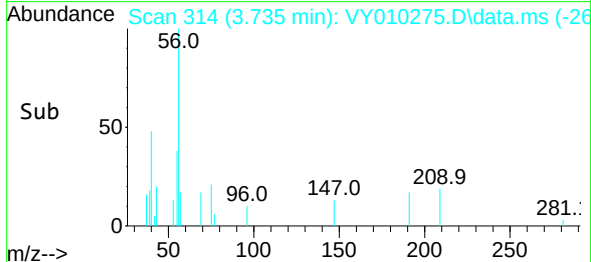
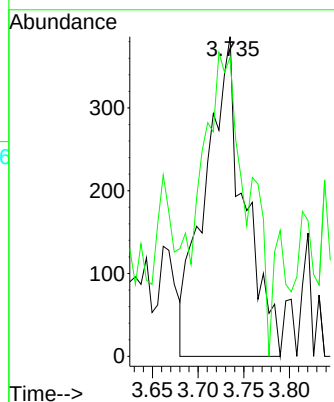
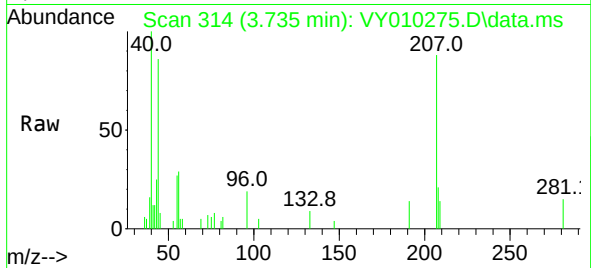




#13
Acrolein
Concen: 2.730 ug/l
RT: 3.735 min Scan# 312
Delta R.T. 0.012 min
Lab File: VY010275.D
Acq: 02 Sep 2022 12:43

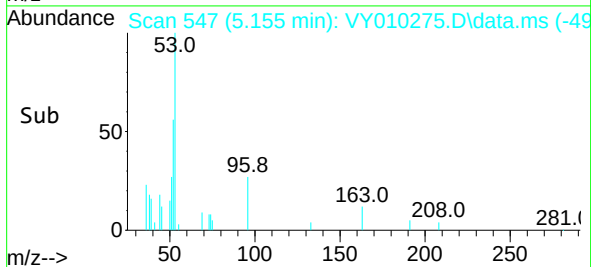
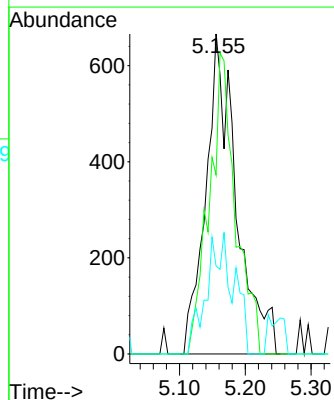
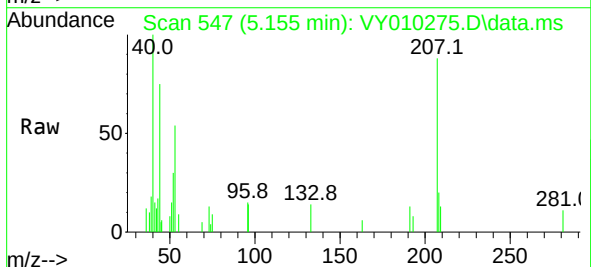
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

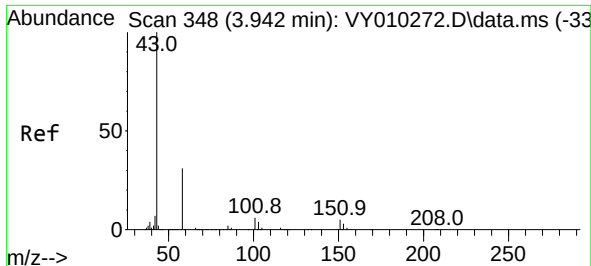
Tgt Ion: 56 Resp: 1142
Ion Ratio Lower Upper
56 100
55 74.3 57.6 86.4



#15
Acrylonitrile
Concen: 2.166 ug/l
RT: 5.155 min Scan# 547
Delta R.T. 0.000 min
Lab File: VY010275.D
Acq: 02 Sep 2022 12:43

Tgt Ion: 53 Resp: 2162
Ion Ratio Lower Upper
53 100
52 80.5 67.0 100.4
51 26.1 29.8 44.6#





#16

Acetone

Concen: 3.219 ug/l

RT: 3.948 min Scan# 348

Delta R.T. 0.006 min

Lab File: VY010275.D

Acq: 02 Sep 2022 12:43

Instrument :

MSVOA_Y

ClientSampleId :

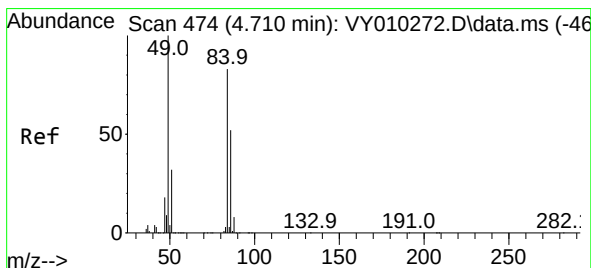
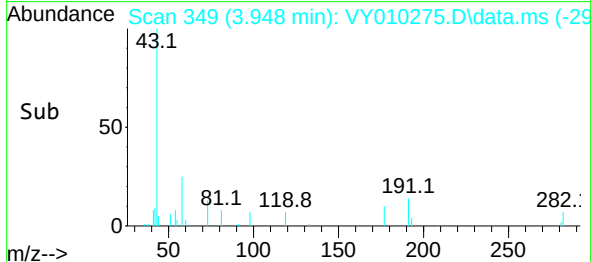
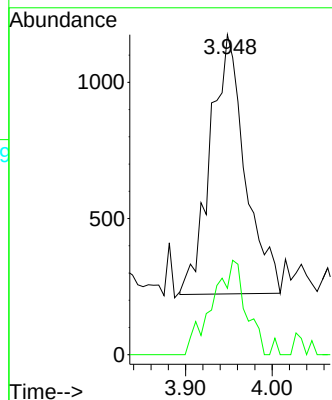
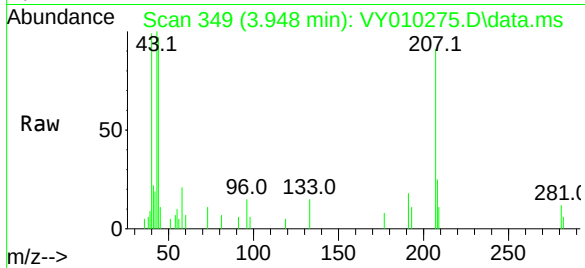
VIBLK

Tgt Ion: 43 Resp: 2658

Ion Ratio Lower Upper

43 100

58 25.7 22.0 33.0



#20

Methylene Chloride

Concen: 8.448 ug/l

RT: 4.710 min Scan# 474

Delta R.T. 0.000 min

Lab File: VY010275.D

Acq: 02 Sep 2022 12:43

Tgt Ion: 84 Resp: 33662

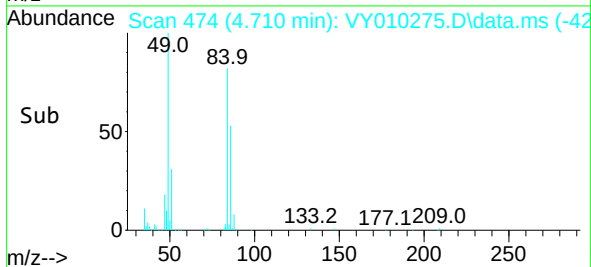
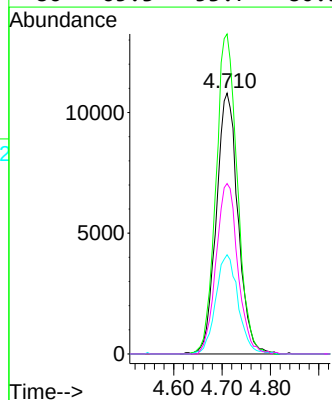
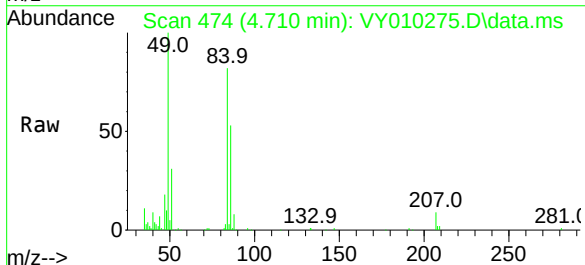
Ion Ratio Lower Upper

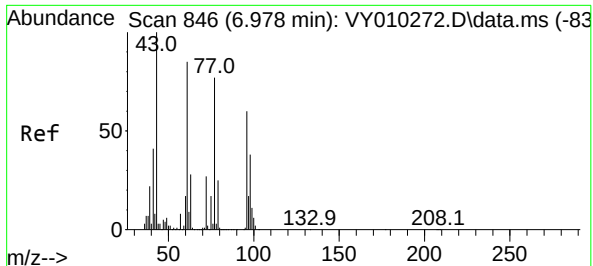
84 100

49 122.7 114.4 171.6

51 38.0 35.3 52.9

86 65.3 53.7 80.5





#25

2-Butanone

Concen: 2.990 ug/l

RT: 6.972 min Scan# 846

Delta R.T. -0.006 min

Lab File: VY010275.D

Acq: 02 Sep 2022 12:43

Instrument :

MSVOA_Y

ClientSampleId :

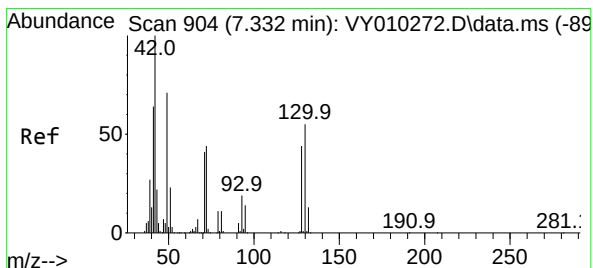
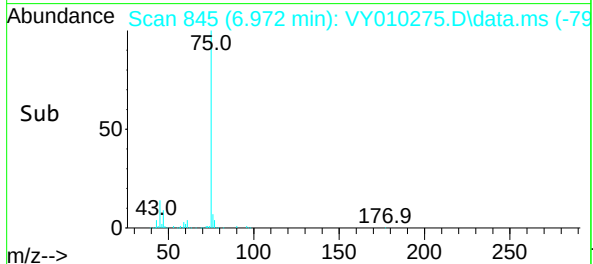
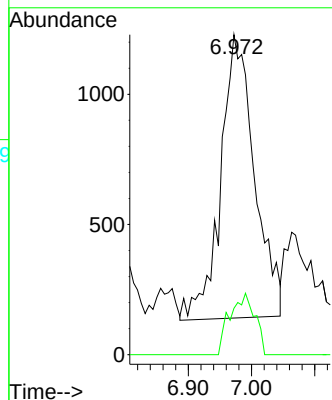
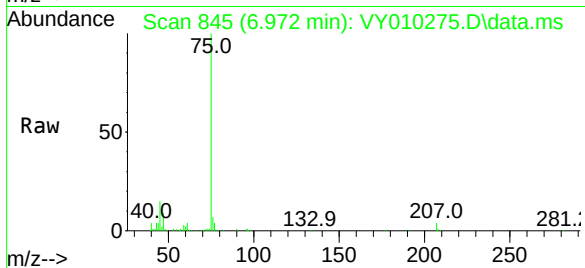
VIBLK

Tgt Ion: 43 Resp: 4051

Ion Ratio Lower Upper

43 100

72 16.5 17.7 26.5#



#28

Bromochloromethane

Concen: 1.732 ug/l

RT: 7.338 min Scan# 905

Delta R.T. 0.006 min

Lab File: VY010275.D

Acq: 02 Sep 2022 12:43

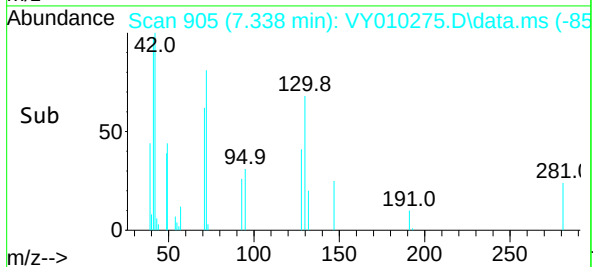
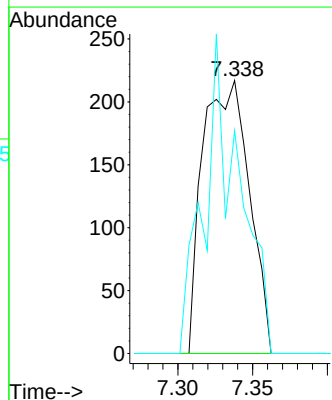
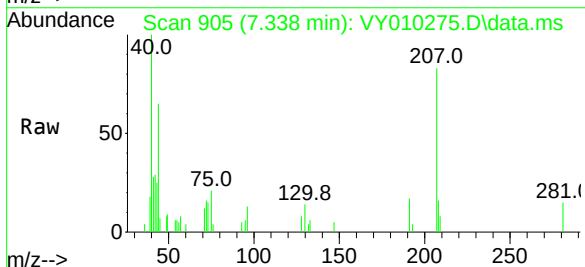
Tgt Ion: 49 Resp: 469

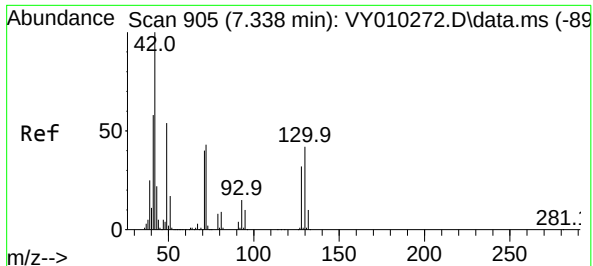
Ion Ratio Lower Upper

49 100

129 0.0 0.0 2.2

130 87.4 55.4 83.0#





#29

Tetrahydrofuran

Concen: 1.817 ug/l

RT: 7.350 min Scan# 905

Delta R.T. 0.012 min

Lab File: VY010275.D

Acq: 02 Sep 2022 12:43

Instrument :

MSVOA_Y

ClientSampleId :

VIBLK

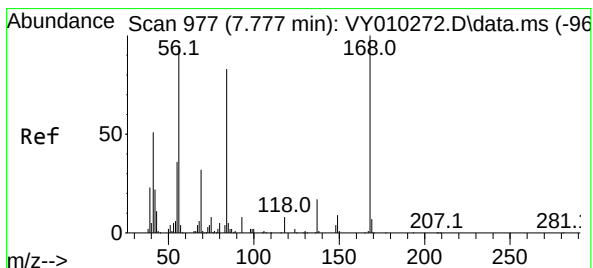
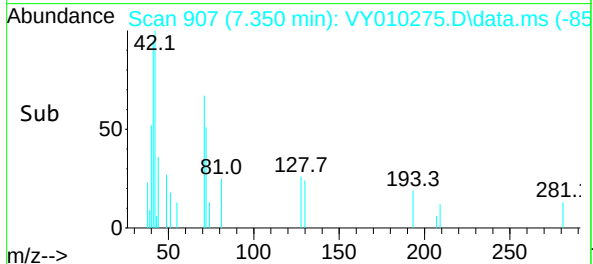
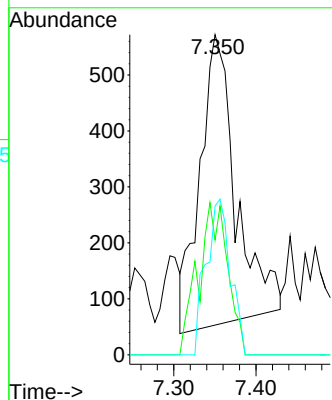
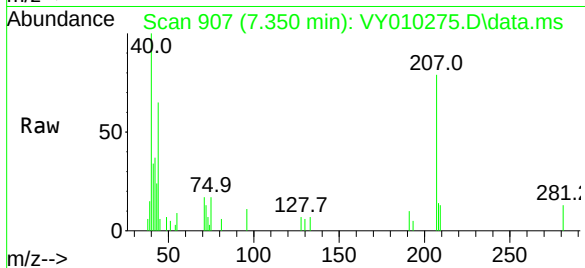
Tgt Ion: 42 Resp: 1577

Ion Ratio Lower Upper

42 100

72 42.7 30.3 45.5

71 36.3 29.0 43.4



#31

Cyclohexane

Concen: 1.131 ug/l

RT: 7.783 min Scan# 978

Delta R.T. 0.006 min

Lab File: VY010275.D

Acq: 02 Sep 2022 12:43

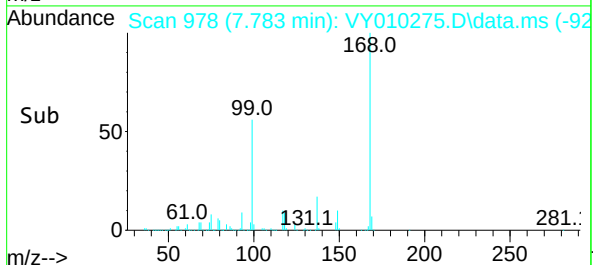
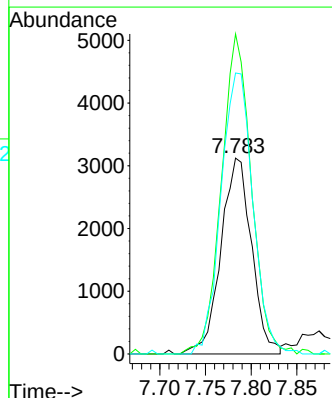
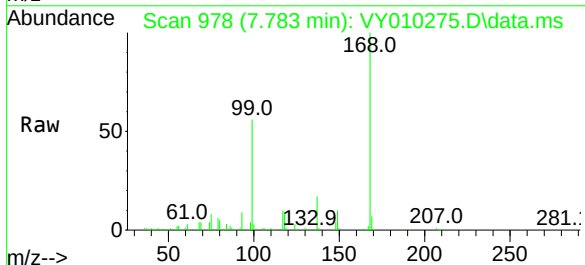
Tgt Ion: 56 Resp: 7285

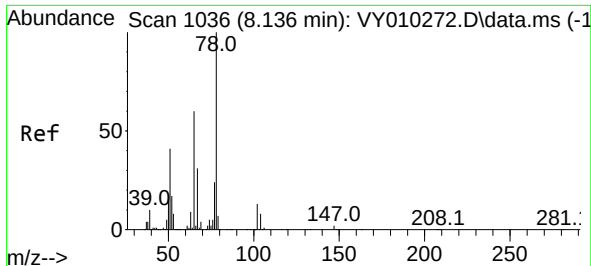
Ion Ratio Lower Upper

56 100

69 163.3 26.7 40.1#

84 143.5 67.2 100.8#





#33

1,2-Dichloroethane-d4

Concen: 56.074 ug/l

RT: 8.137 min Scan# 1036

Delta R.T. 0.001 min

Lab File: VY010275.D

Acq: 02 Sep 2022 12:43

Instrument :

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ClientSampleId :

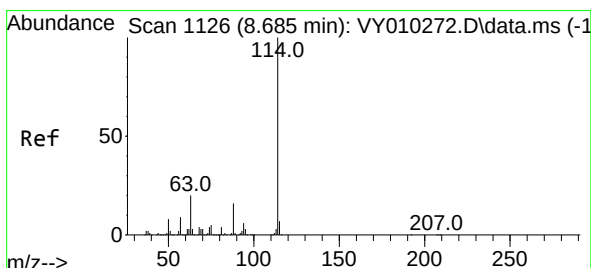
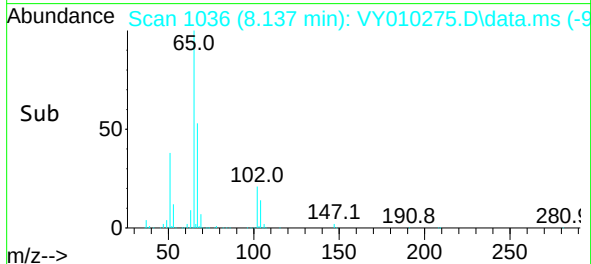
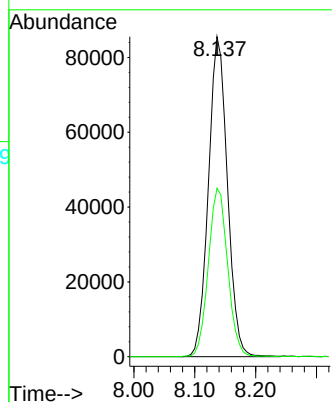
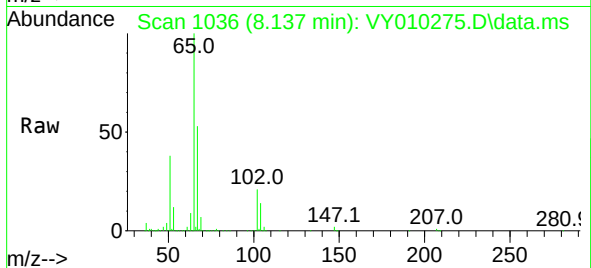
VIBLK

Tgt Ion: 65 Resp: 185199

Ion Ratio Lower Upper

65 100

67 53.5 0.0 99.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VY010275.D

Acq: 02 Sep 2022 12:43

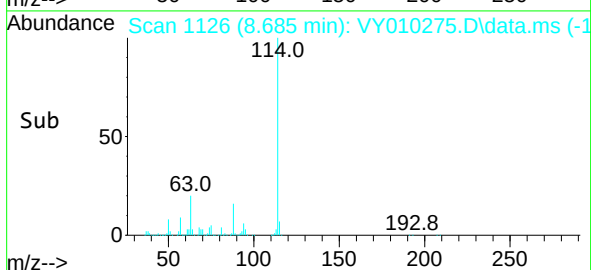
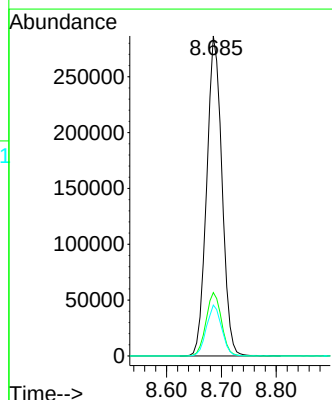
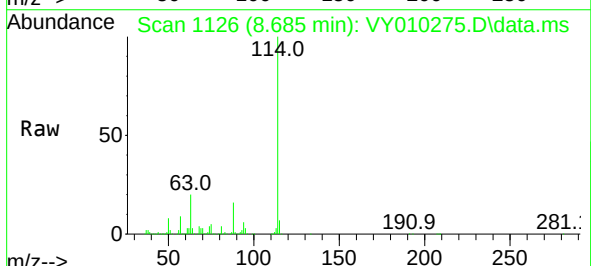
Tgt Ion:114 Resp: 552287

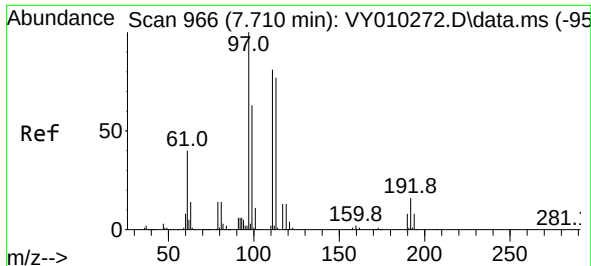
Ion Ratio Lower Upper

114 100

63 19.8 0.0 43.2

88 15.9 0.0 31.8

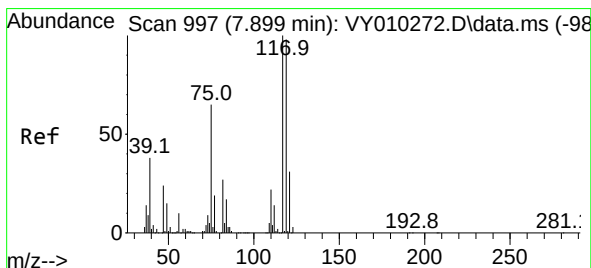
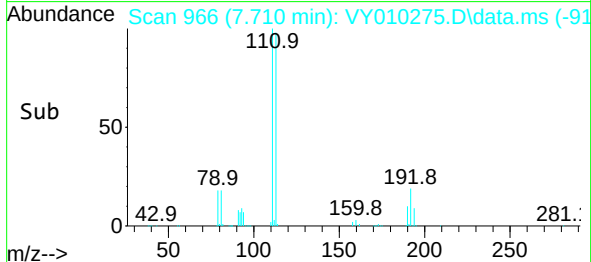
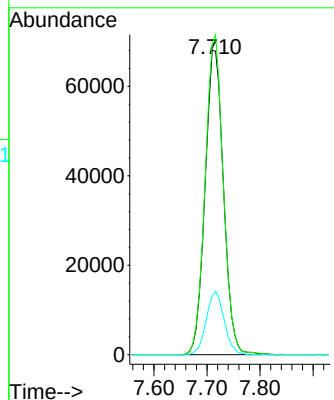
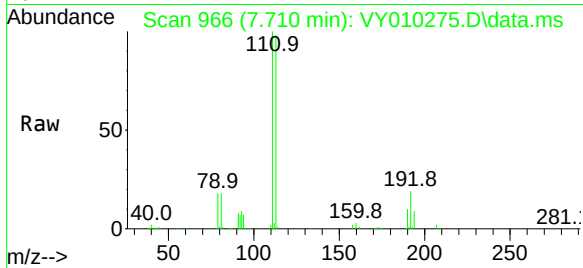




#35
Dibromofluoromethane
Concen: 45.052 ug/l
RT: 7.710 min Scan# 90
Delta R.T. -0.000 min
Lab File: VY010275.D
Acq: 02 Sep 2022 12:43

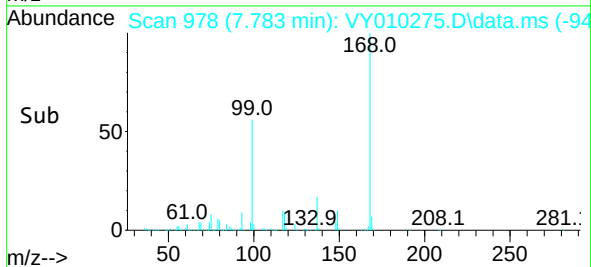
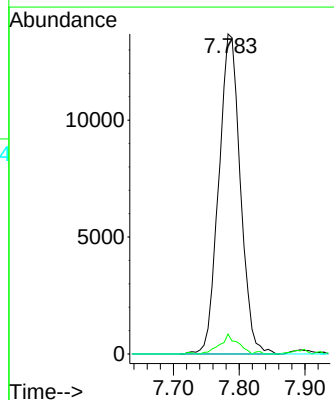
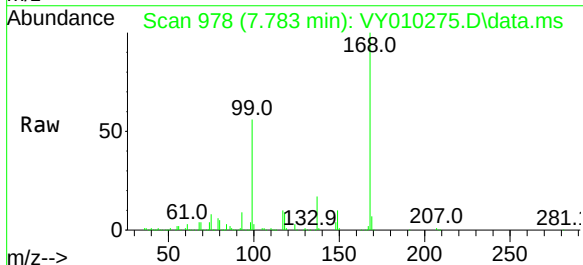
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

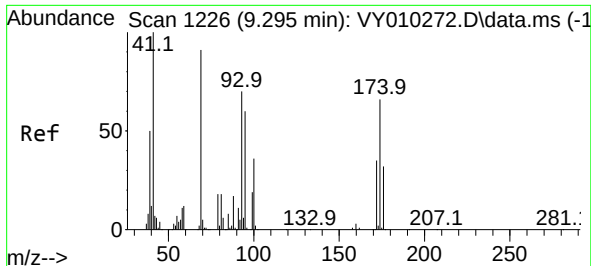
Tgt Ion:113 Resp: 165642
Ion Ratio Lower Upper
113 100
111 102.5 82.6 124.0
192 20.1 17.6 26.4



#38
Carbon Tetrachloride
Concen: 5.622 ug/l
RT: 7.783 min Scan# 978
Delta R.T. -0.116 min
Lab File: VY010275.D
Acq: 02 Sep 2022 12:43

Tgt Ion:117 Resp: 31253
Ion Ratio Lower Upper
117 100
119 6.2 77.9 116.9#
121 0.0 24.8 37.2#





#49

1,4-Dioxane

Concen: 4.370 ug/l

RT: 9.289 min Scan# 1225

Delta R.T. -0.006 min

Lab File: VY010275.D

Acq: 02 Sep 2022 12:43

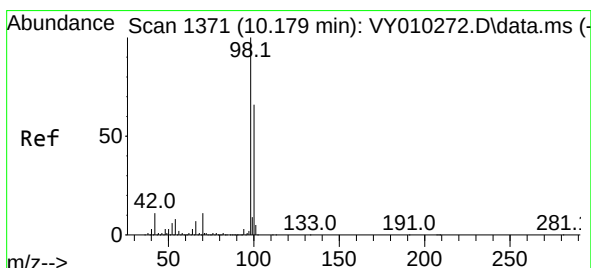
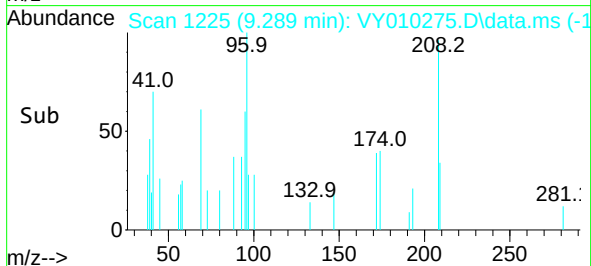
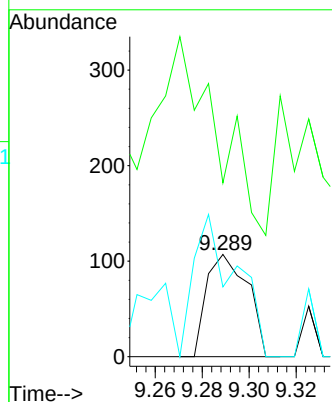
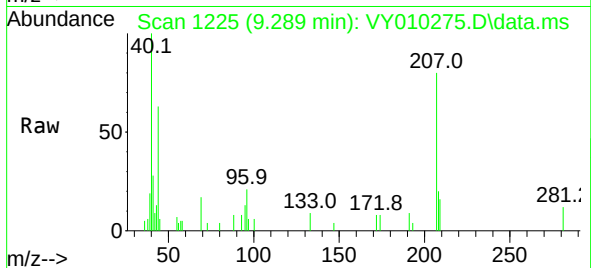
Instrument :

MSVOA_Y

ClientSampleId :

VIBLK

Tgt Ion:	88	Resp:	130
Ion	Ratio	Lower	Upper
88	100		
43	0.0	32.8	49.2#
58	141.5	59.8	89.6#



#50

Toluene-d8

Concen: 53.882 ug/l

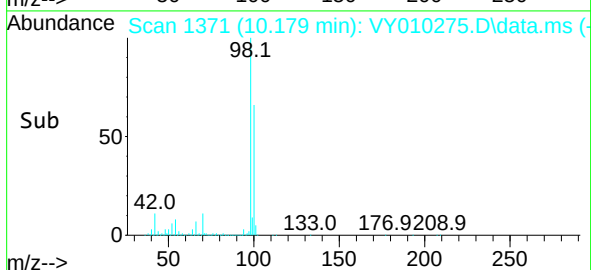
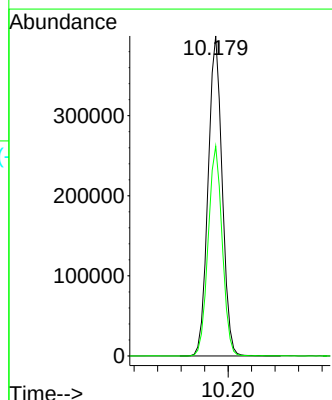
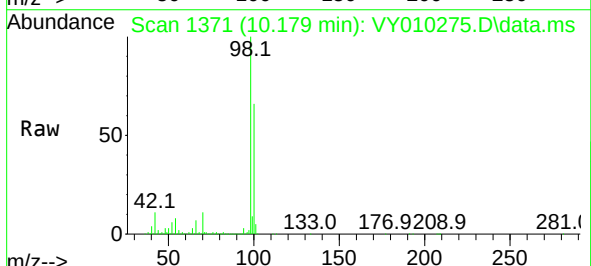
RT: 10.179 min Scan# 1371

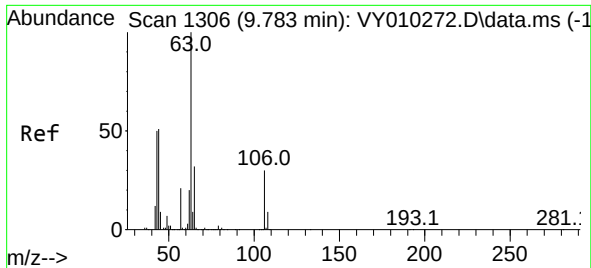
Delta R.T. -0.000 min

Lab File: VY010275.D

Acq: 02 Sep 2022 12:43

Tgt Ion:	98	Resp:	663268
Ion	Ratio	Lower	Upper
98	100		
100	65.6	50.2	75.2

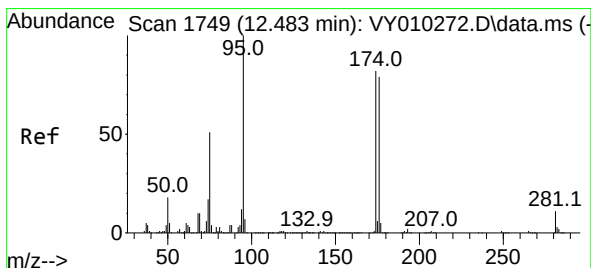
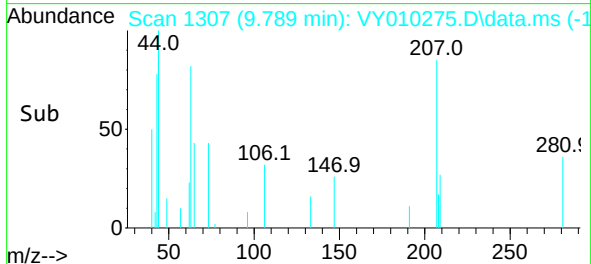
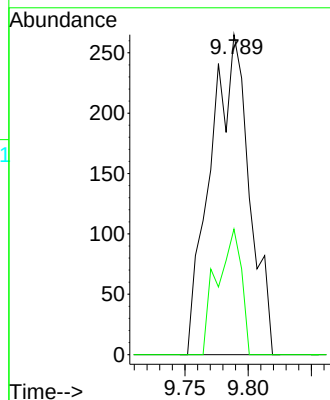
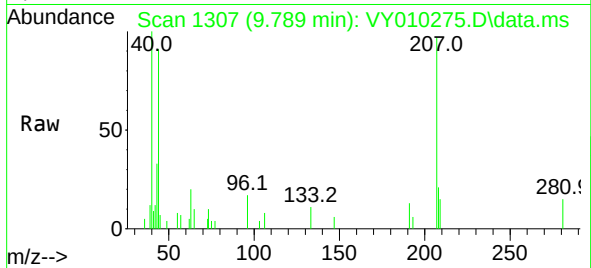




#58
2-Chloroethyl Vinyl ether
Concen: Below Cal
RT: 9.789 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY010275.D
Acq: 02 Sep 2022 12:43

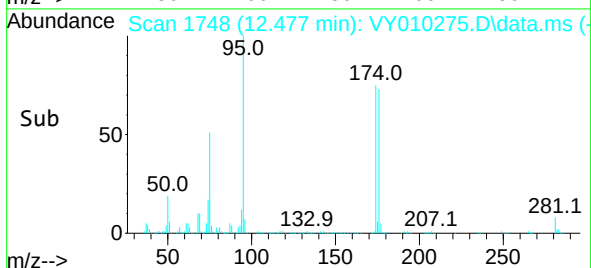
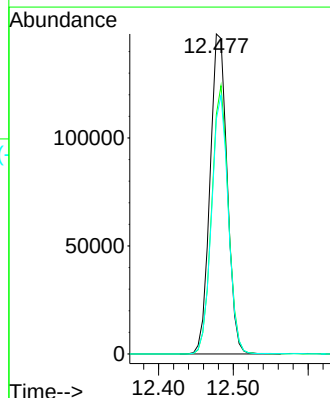
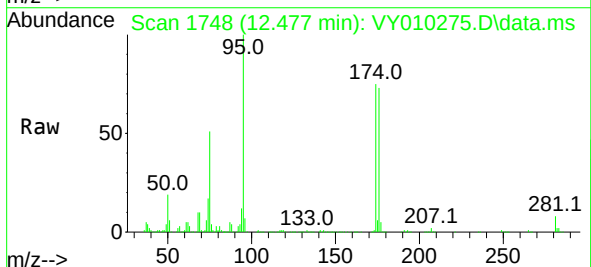
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

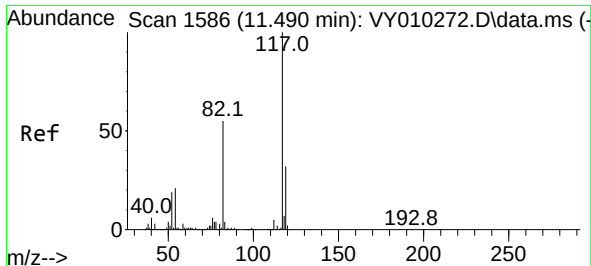
Tgt Ion: 63 Resp: 566
Ion Ratio Lower Upper
63 100
106 24.6 21.5 32.3



#62
4-Bromofluorobenzene
Concen: 47.677 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.006 min
Lab File: VY010275.D
Acq: 02 Sep 2022 12:43

Tgt Ion: 95 Resp: 236484
Ion Ratio Lower Upper
95 100
174 81.3 0.0 177.0
176 79.0 0.0 175.8

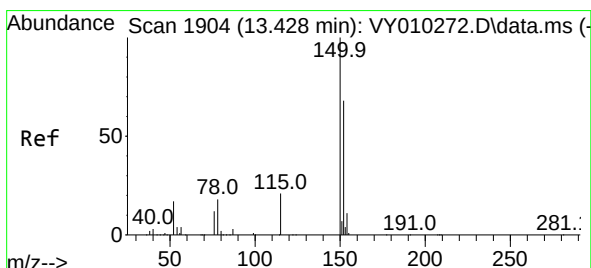
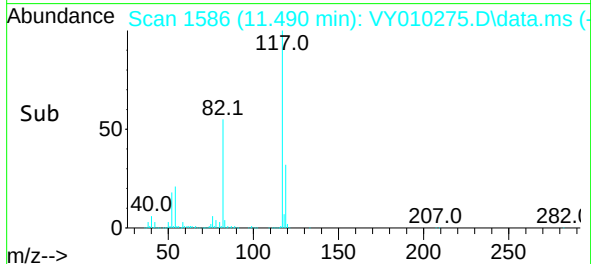
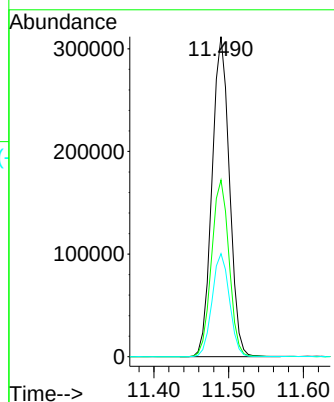
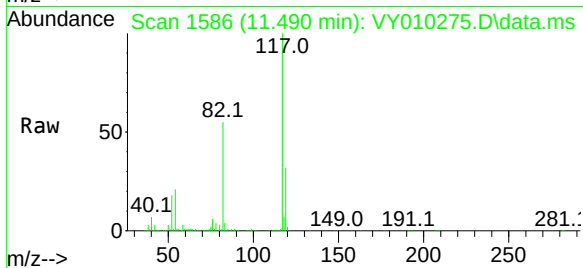




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY010275.D
Acq: 02 Sep 2022 12:43

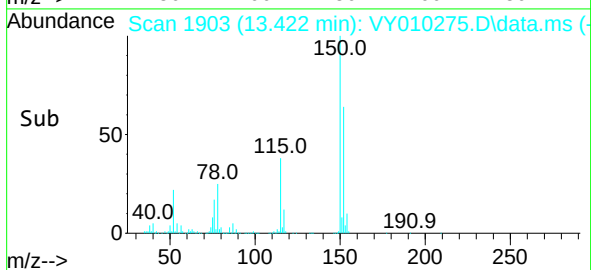
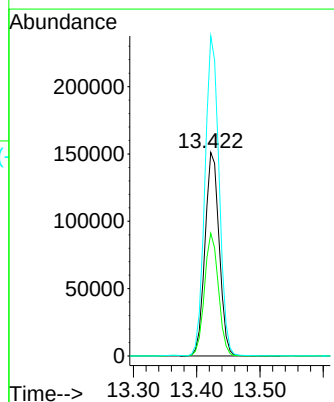
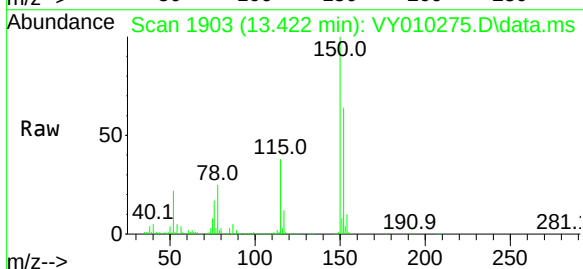
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

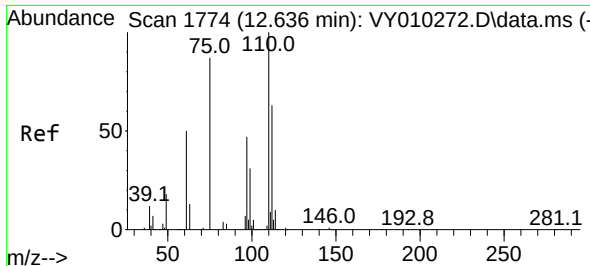
Tgt Ion:117 Resp: 505921
Ion Ratio Lower Upper
117 100
82 55.2 43.0 64.4
119 32.2 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. -0.006 min
Lab File: VY010275.D
Acq: 02 Sep 2022 12:43

Tgt Ion:152 Resp: 236160
Ion Ratio Lower Upper
152 100
115 58.8 28.2 84.7
150 156.9 0.0 347.6

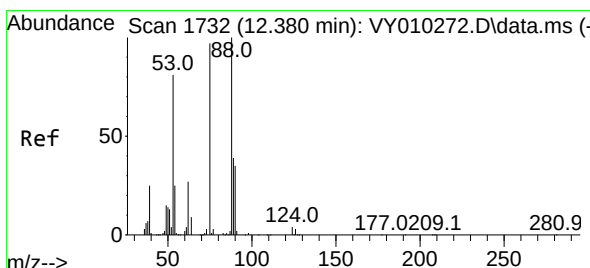
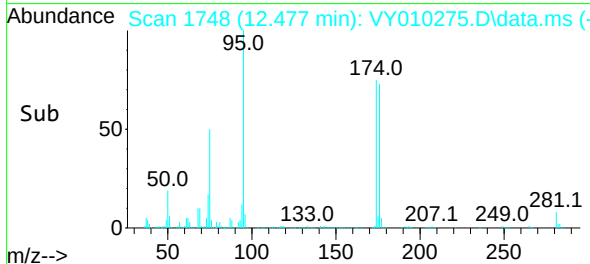
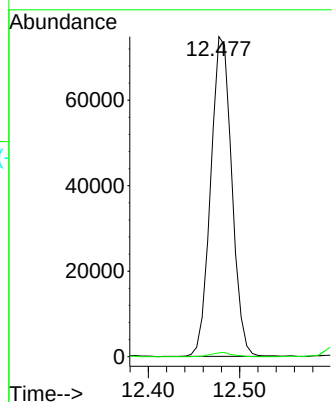
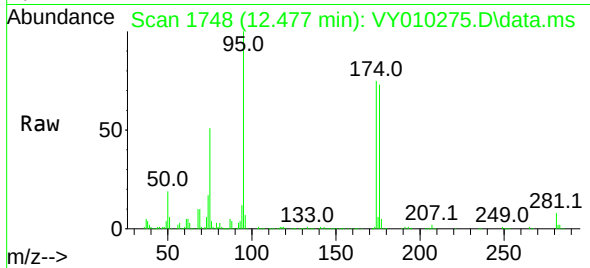




#76
1,2,3-Trichloropropane
Concen: 42.733 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.159 min
Lab File: VY010275.D
Acq: 02 Sep 2022 12:43

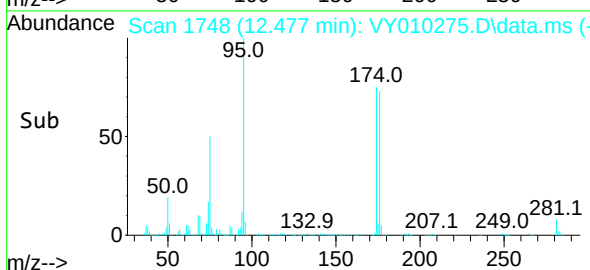
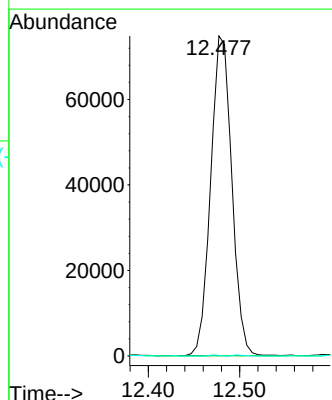
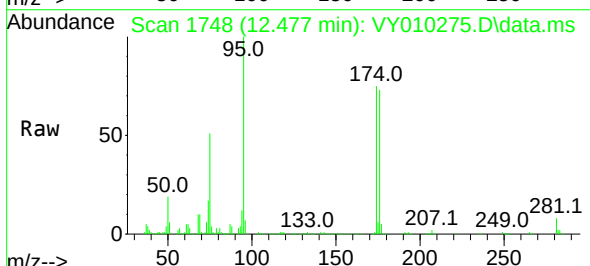
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

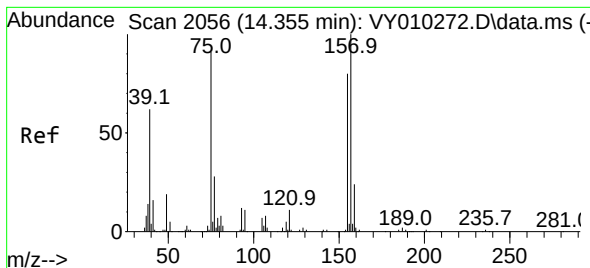
Tgt Ion: 75 Resp: 120097
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 89.146 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.097 min
Lab File: VY010275.D
Acq: 02 Sep 2022 12:43

Tgt Ion: 75 Resp: 120097
Ion Ratio Lower Upper
75 100
53 0.0 85.3 127.9#
89 0.1 37.0 55.4#

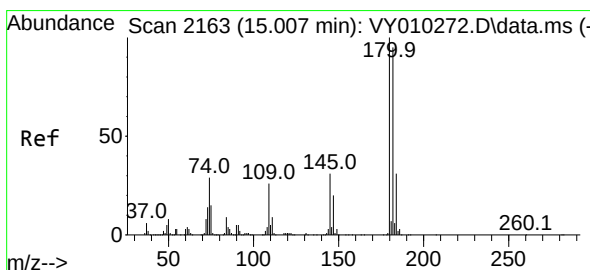
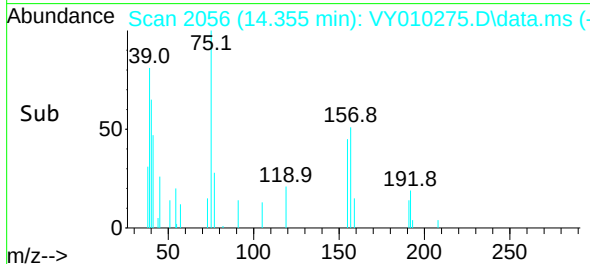
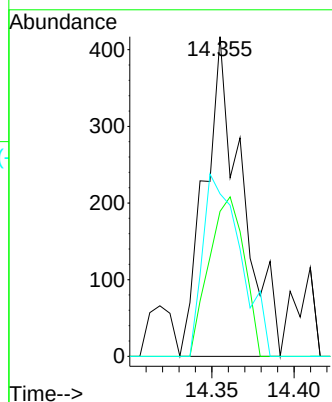
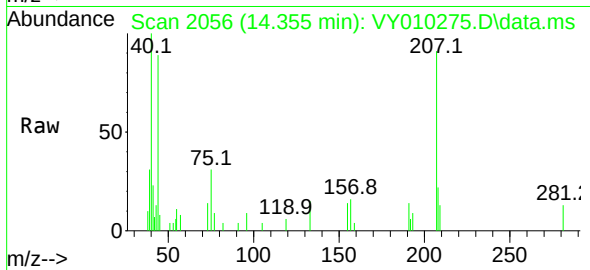




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.028 ug/l
 RT: 14.355 min Scan# 2056
 Delta R.T. -0.000 min
 Lab File: VY010275.D
 Acq: 02 Sep 2022 12:43

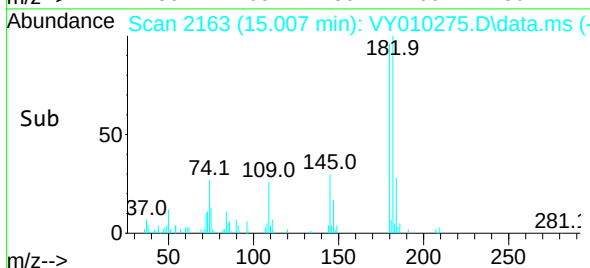
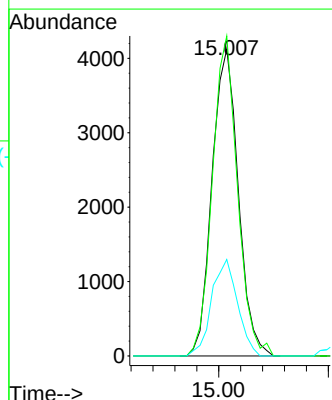
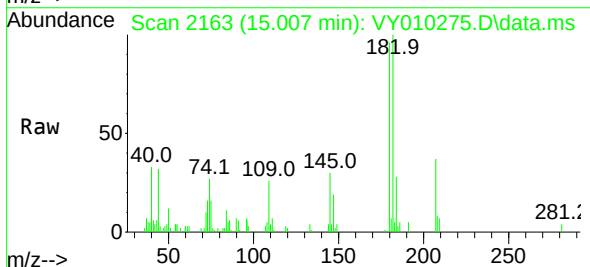
Instrument :
 MSVOA_Y
 ClientSampleId :
 VIBLK

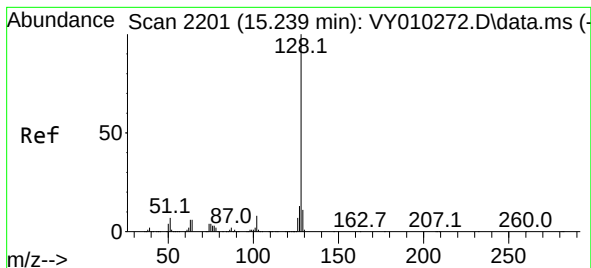
Tgt Ion:	75	Resp:	656
Ion	Ratio	Lower	Upper
75	100		
155	47.3	38.0	113.9
157	58.1	47.8	143.3



#93
 1,2,4-Trichlorobenzene
 Concen: 1.496 ug/l
 RT: 15.007 min Scan# 2163
 Delta R.T. 0.000 min
 Lab File: VY010275.D
 Acq: 02 Sep 2022 12:43

Tgt Ion:	180	Resp:	6869
Ion	Ratio	Lower	Upper
180	100		
182	99.4	47.3	141.9
145	31.0	14.6	43.8





#95

Naphthalene

Concen: 1.854 ug/l

RT: 15.233 min Scan# 2201

Delta R.T. -0.006 min

Lab File: VY010275.D

Acq: 02 Sep 2022 12:43

Instrument :

MSVOA_Y

ClientSampleId :

VIBLK

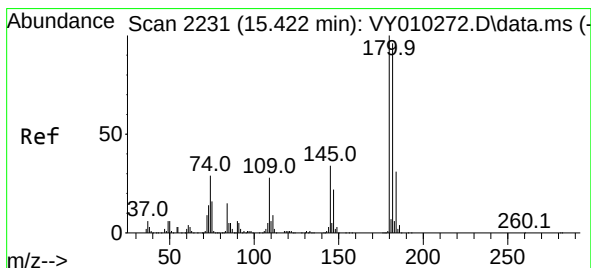
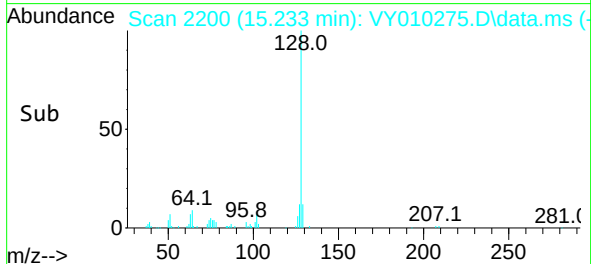
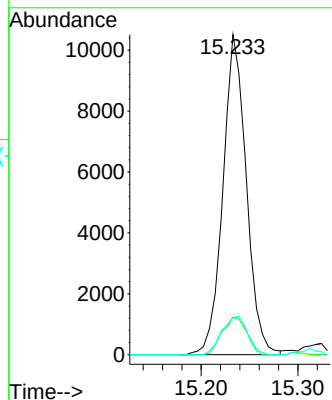
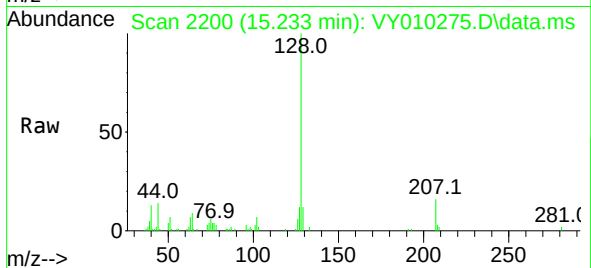
Tgt Ion:128 Resp: 17659

Ion Ratio Lower Upper

128 100

127 12.4 11.0 16.4

129 13.0 8.4 12.6#



#96

1,2,3-Trichlorobenzene

Concen: 1.754 ug/l

RT: 15.422 min Scan# 2231

Delta R.T. -0.000 min

Lab File: VY010275.D

Acq: 02 Sep 2022 12:43

Tgt Ion:180 Resp: 6820

Ion Ratio Lower Upper

180 100

182 88.3 47.3 141.9

145 32.3 15.3 45.9

