

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010723\
 Data File : VX033652.D
 Acq On : 07 Jan 2023 00:59
 Operator : JC/MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 IBLK

Quant Time: Jan 07 06:26:10 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X010723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jan 07 06:16:21 2023
 Response via : Initial Calibration

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

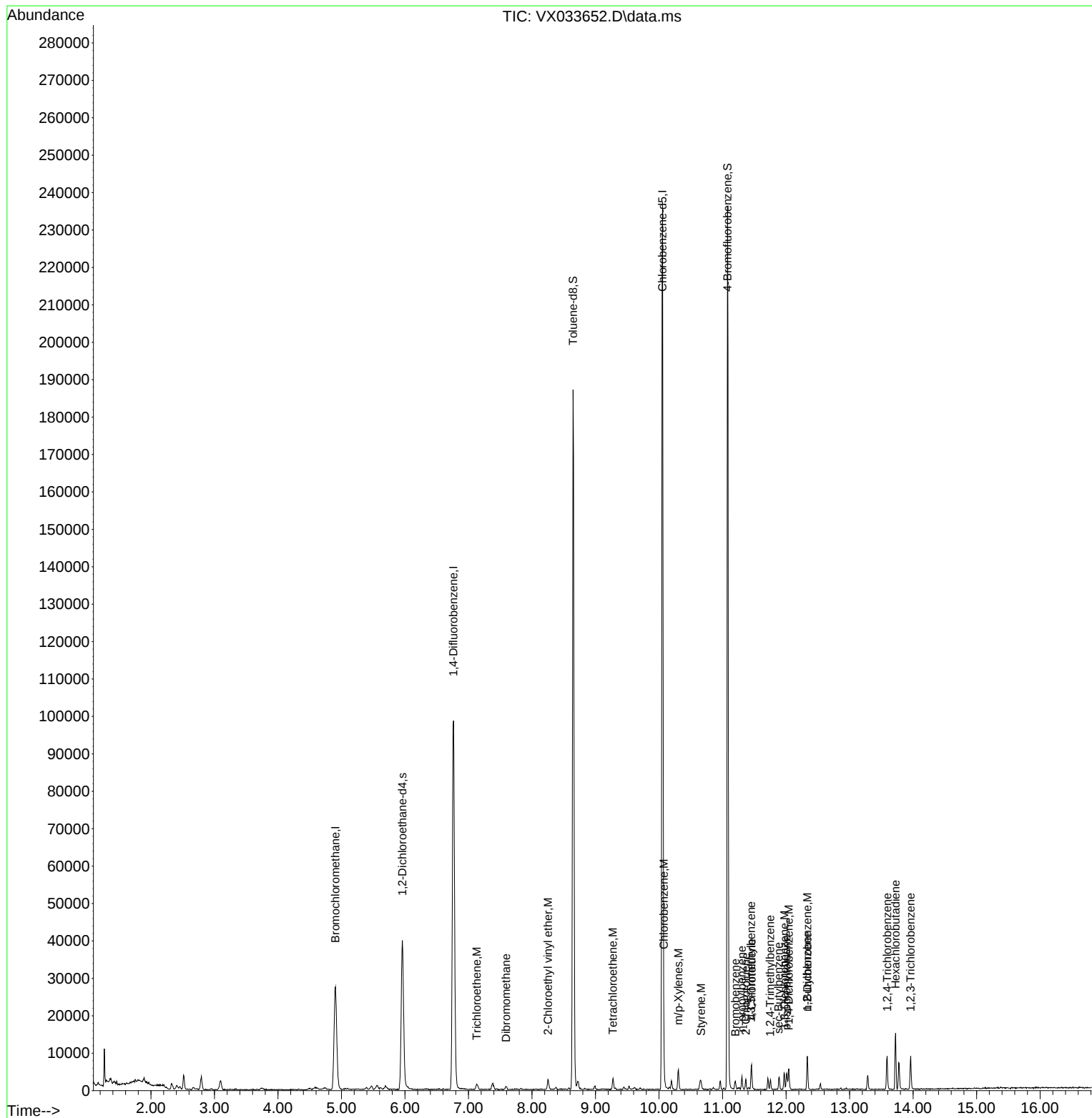
Internal Standards						
1) Bromochloromethane	4.903	128	11663	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	106741	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	114575	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	38522	40.792	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	135.967%#
60) 4-Bromofluorobenzene	11.079	95	59764	28.941	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	96.467%
63) Toluene-d8	8.647	98	110152	30.040	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.133%
Target Compounds						Qvalue
37) Trichloroethene	7.129	130	716	0.370	ug/l	94
40) Dibromomethane	7.592	93	312	0.259	ug/l	93
55) 2-Chloroethyl vinyl ether	8.250	63	1179	0.936	ug/l	94
61) Tetrachloroethene	9.275	164	632	0.382	ug/l	94
64) Chlorobenzene	10.073	112	1129	0.243	ug/l	# 80
67) m/p-Xylenes	10.305	106	1296	0.408	ug/l	87
69) Styrene	10.659	104	1108	0.215	ug/l	97
73) Bromobenzene	11.201	156	666	0.311	ug/l	95
74) n-propylbenzene	11.305	91	2465	0.269	ug/l	96
75) 2-Chlorotoluene	11.366	91	1339	0.244	ug/l	96
76) 1,3,5-Trimethylbenzene	11.451	105	1468	0.219	ug/l	100
78) 4-Chlorotoluene	11.457	91	2283	0.371	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	1419	0.214	ug/l	100
81) sec-Butylbenzene	11.884	105	2260	0.271	ug/l	98
82) p-Isopropyltoluene	12.006	119	2167	0.302	ug/l	97
83) 1,3-Dichlorobenzene	11.975	146	1809	0.463	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	2101	0.540	ug/l	95
85) n-Butylbenzene	12.335	91	2706	0.464	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	1290	0.343	ug/l	96
89) 1,2,4-Trichlorobenzene	13.591	180	2642	1.021	ug/l	97
90) Hexachlorobutadiene	13.725	225	2485	2.004	ug/l	97
92) 1,2,3-Trichlorobenzene	13.963	180	2714	1.046	ug/l	98

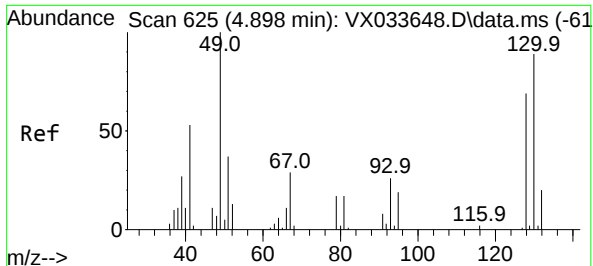
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jan 07 06:26:10 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X010723W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Jan 07 06:16:21 2023
Response via : Initial Calibration

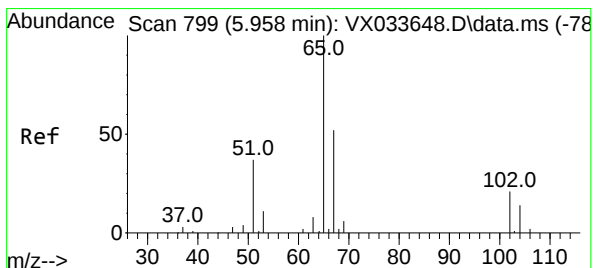
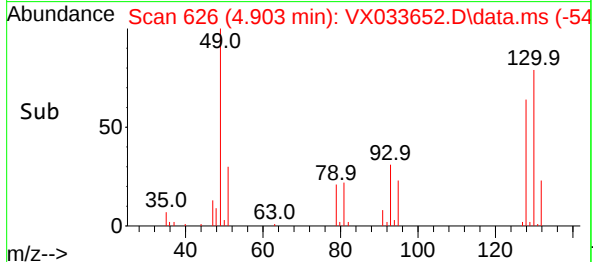
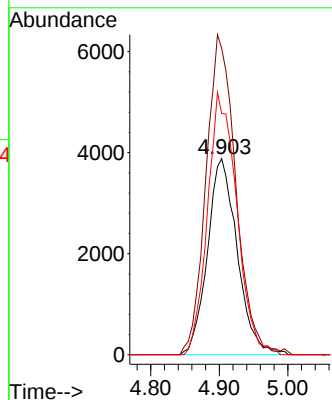
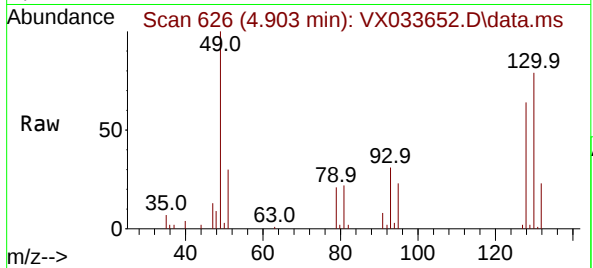




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.903 min Scan# 61
Delta R.T. 0.005 min
Lab File: VX033652.D
Acq: 07 Jan 2023 00:59

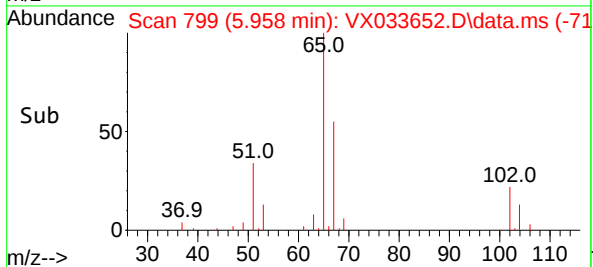
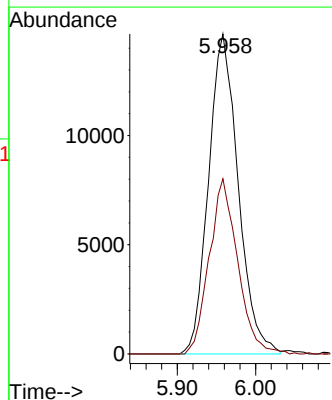
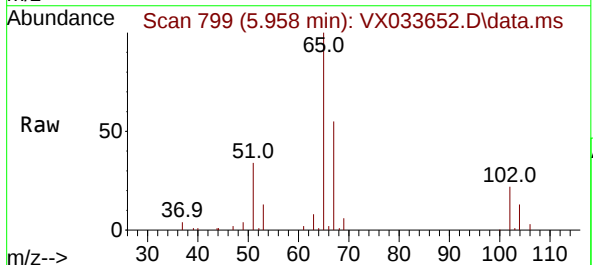
Instrument :
MSVOA_X
ClientSampleId :
IBLK

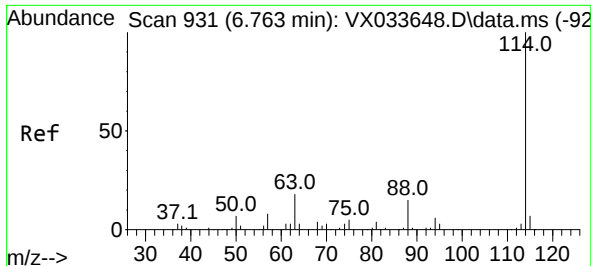
Tgt Ion:128 Resp: 11663
Ion Ratio Lower Upper
128 100
49 163.5 0.0 398.5
130 131.1 0.0 329.0



#27
1,2-Dichloroethane-d4
Concen: 40.792 ug/l
RT: 5.958 min Scan# 799
Delta R.T. -0.000 min
Lab File: VX033652.D
Acq: 07 Jan 2023 00:59

Tgt Ion: 65 Resp: 38522
Ion Ratio Lower Upper
65 100
67 52.6 40.4 60.6





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.763 min Scan# 911

Delta R.T. -0.000 min

Lab File: VX033652.D

Acq: 07 Jan 2023 00:59

Instrument :

MSVOA_X

ClientSampleId :

IBLK

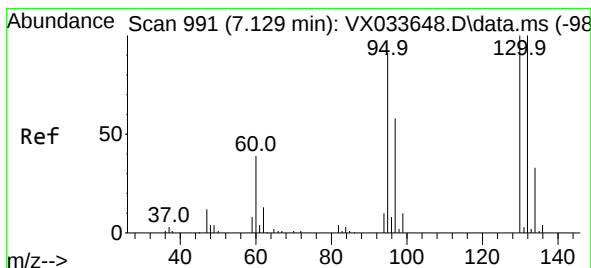
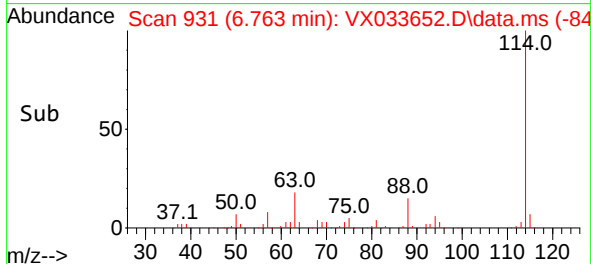
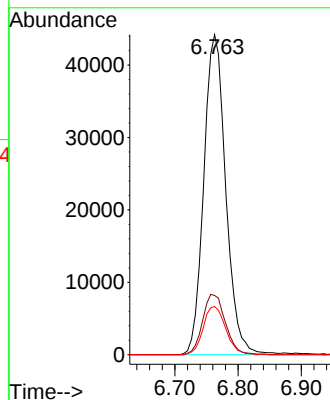
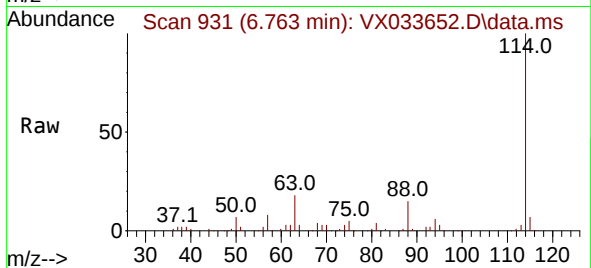
Tgt Ion:114 Resp: 106741

Ion Ratio Lower Upper

114 100

63 19.6 15.5 23.3

88 15.4 12.4 18.6



#37

Trichloroethene

Concen: 0.370 ug/l

RT: 7.129 min Scan# 991

Delta R.T. -0.000 min

Lab File: VX033652.D

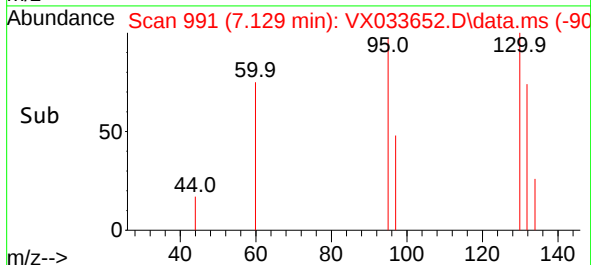
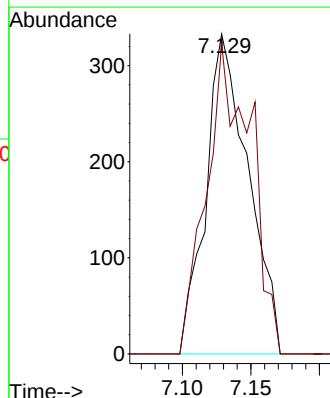
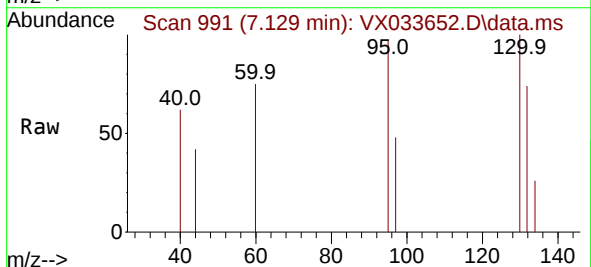
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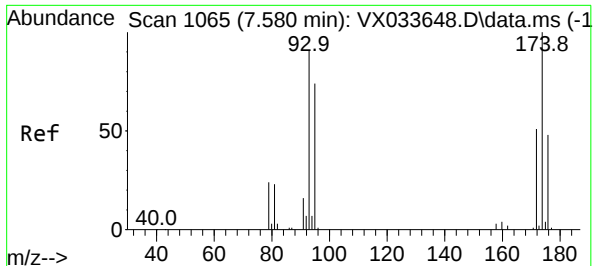
Tgt Ion:130 Resp: 716

Ion Ratio Lower Upper

130 100

95 97.0 73.1 109.7

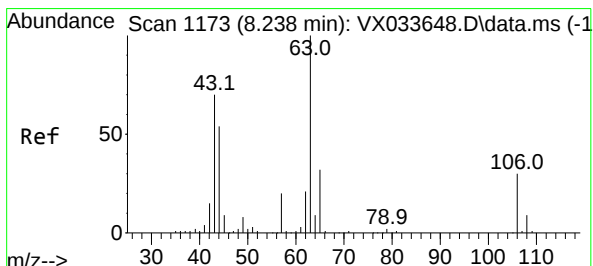
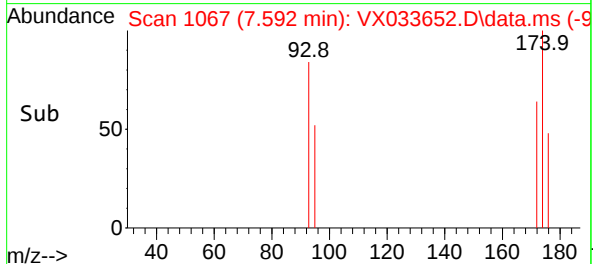
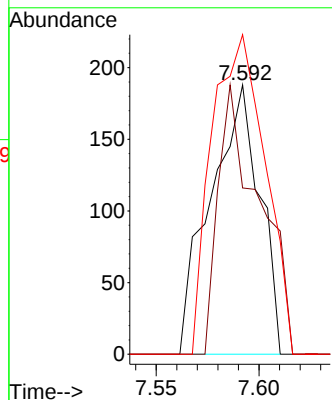
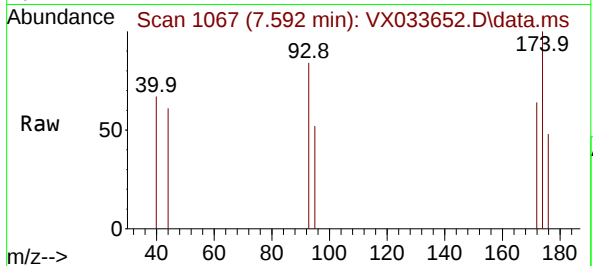




#40
Dibromomethane
Concen: 0.259 ug/l
RT: 7.592 min Scan# 1065
Delta R.T. 0.012 min
Lab File: VX033652.D
Acq: 07 Jan 2023 00:59

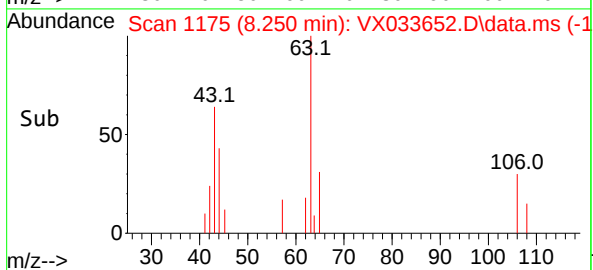
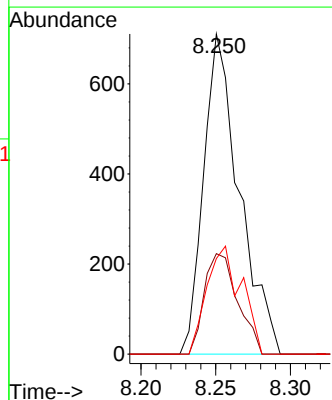
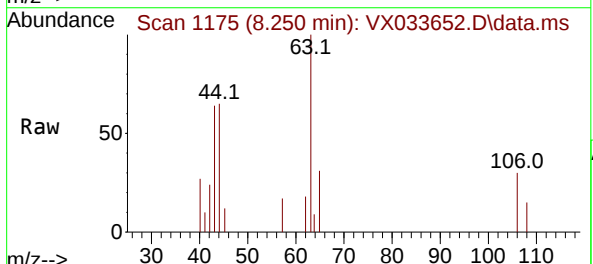
Instrument :
MSVOA_X
ClientSampleId :
IBLK

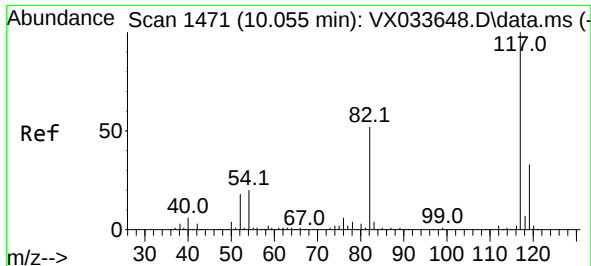
Tgt Ion: 93 Resp: 312
Ion Ratio Lower Upper
93 100
95 83.7 0.0 166.4
174 129.2 0.0 233.8



#55
2-Chloroethyl vinyl ether
Concen: 0.936 ug/l
RT: 8.250 min Scan# 1175
Delta R.T. 0.012 min
Lab File: VX033652.D
Acq: 07 Jan 2023 00:59

Tgt Ion: 63 Resp: 1179
Ion Ratio Lower Upper
63 100
65 29.3 26.2 39.4
106 32.7 24.0 36.0





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. -0.000 min

Lab File: VX033652.D

Acq: 07 Jan 2023 00:59

Instrument :

MSVOA_X

ClientSampleId :

IBLK

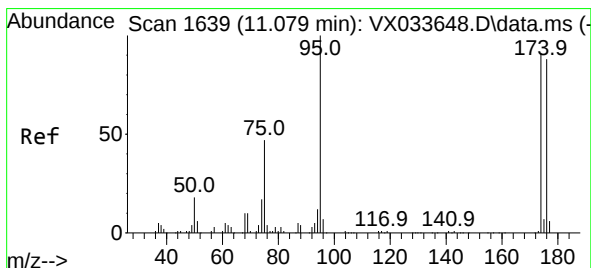
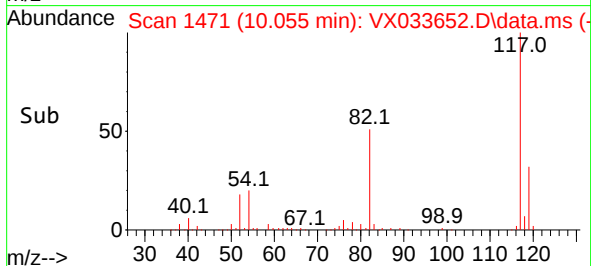
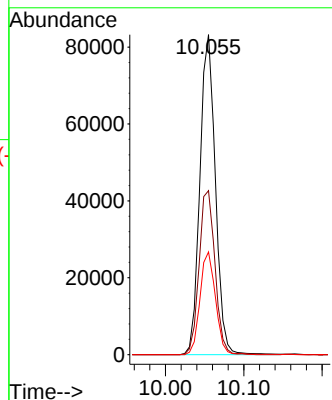
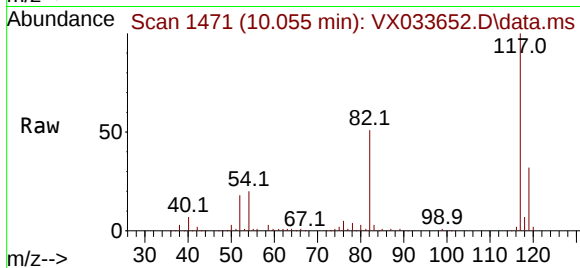
Tgt Ion:117 Resp: 114575

Ion Ratio Lower Upper

117 100

82 52.5 41.9 62.9

119 32.1 25.6 38.4



#60

4-Bromofluorobenzene

Concen: 28.941 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX033652.D

Acq: 07 Jan 2023 00:59

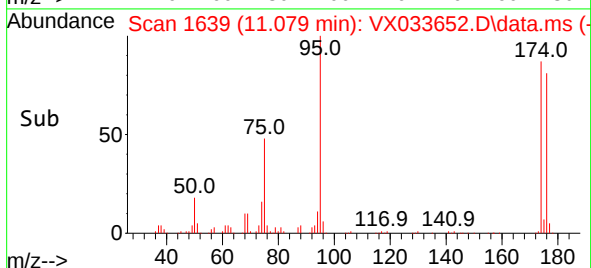
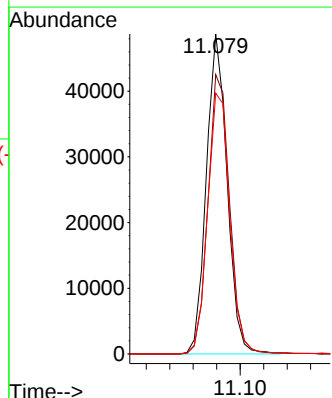
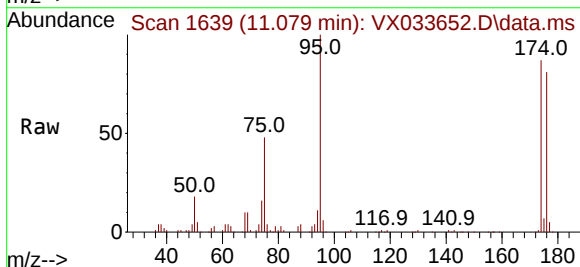
Tgt Ion: 95 Resp: 59764

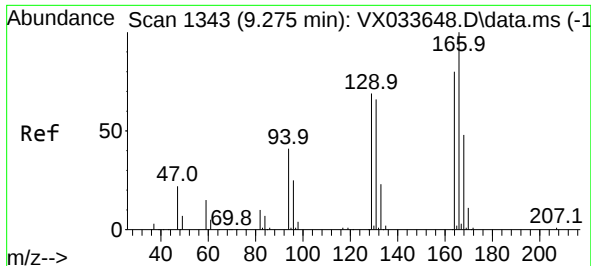
Ion Ratio Lower Upper

95 100

174 91.1 73.7 110.5

176 87.2 71.0 106.4

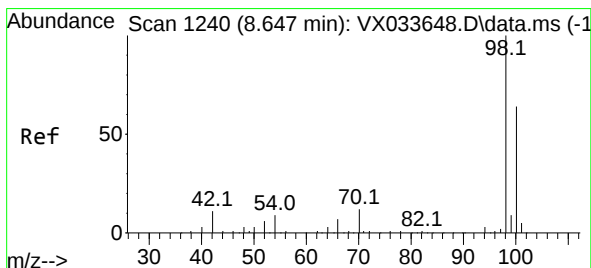
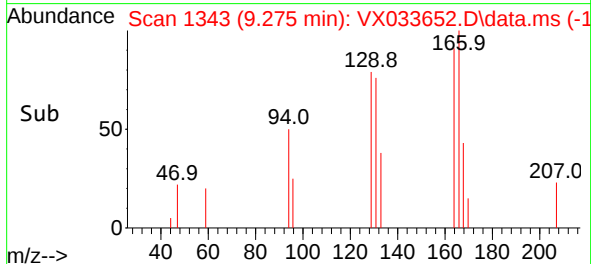
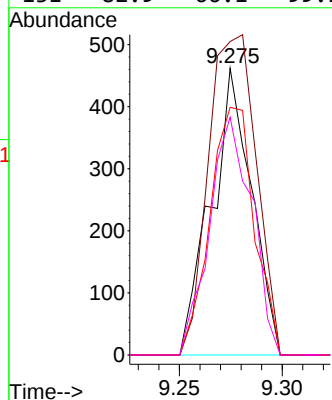
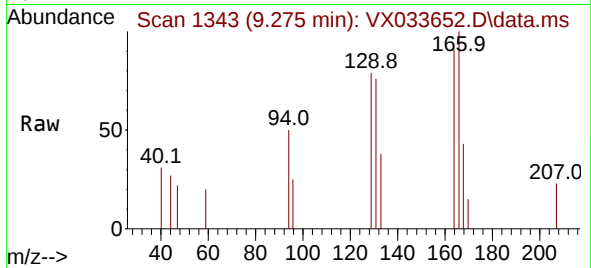




#61
Tetrachloroethene
Concen: 0.382 ug/l
RT: 9.275 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX033652.D
Acq: 07 Jan 2023 00:59

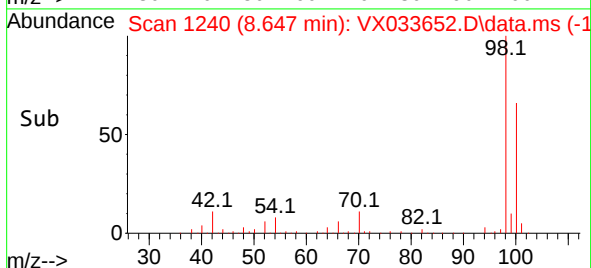
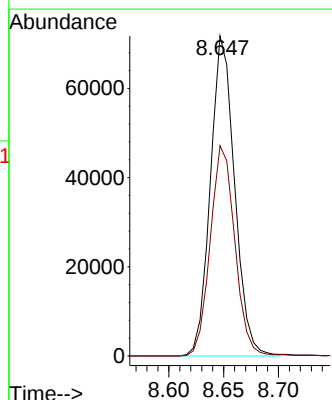
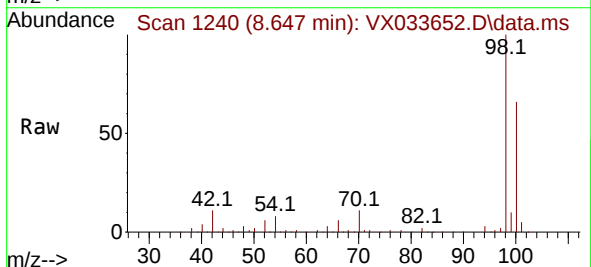
Instrument :
MSVOA_X
ClientSampleId :
IBLK

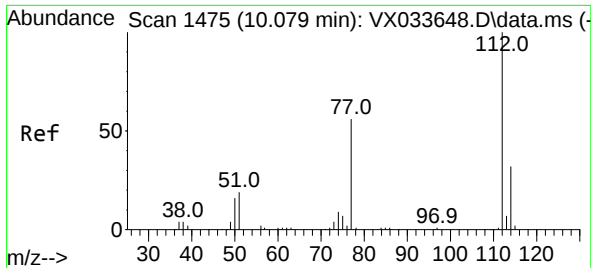
Tgt Ion:164	Resp:	632
Ion	Ratio	Lower Upper
164	100	
166	109.3	100.2 150.4
129	86.4	68.8 103.2
131	82.9	66.1 99.1



#63
Toluene-d8
Concen: 30.040 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX033652.D
Acq: 07 Jan 2023 00:59

Tgt Ion: 98	Resp:	110152
Ion	Ratio	Lower Upper
98	100	
100	66.8	53.1 79.7

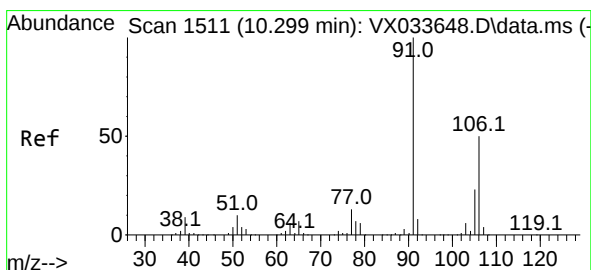
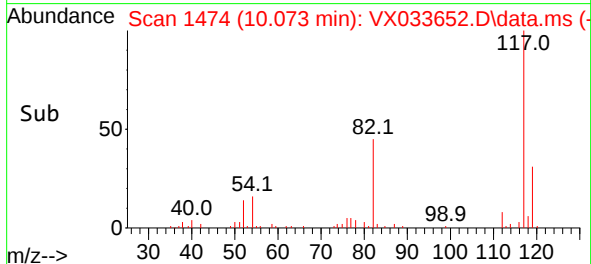
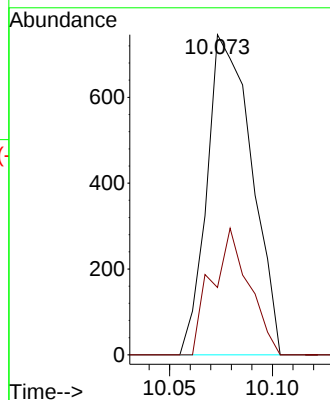
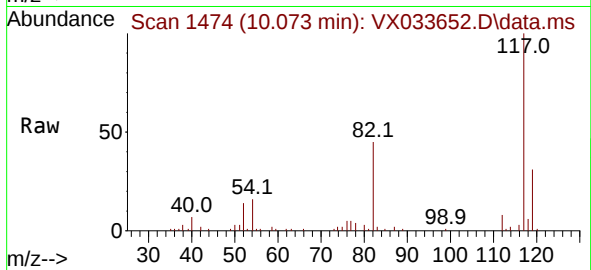




#64
Chlorobenzene
Concen: 0.243 ug/l
RT: 10.073 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VX033652.D
Acq: 07 Jan 2023 00:59

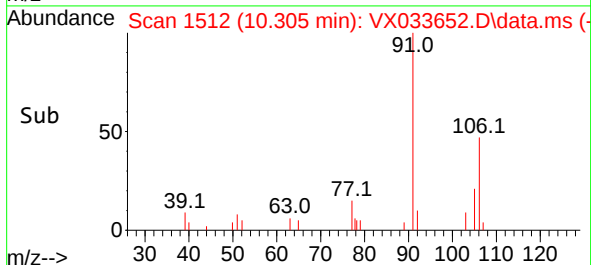
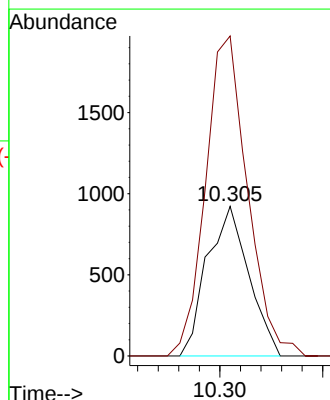
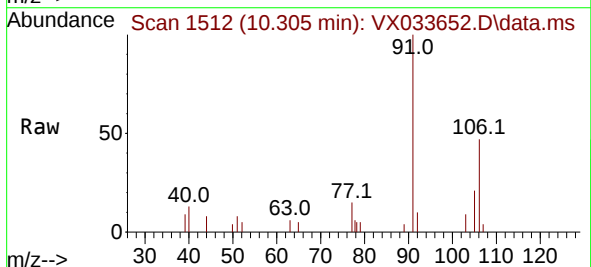
Instrument :
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ClientSampleId :
IBLK

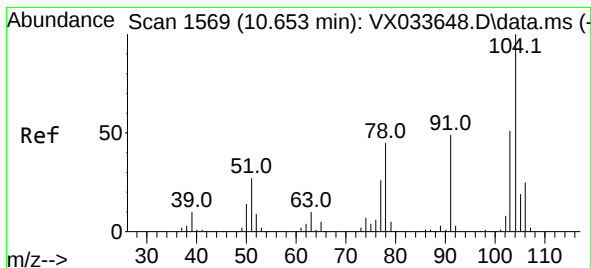
Tgt Ion:112 Resp: 1129
Ion Ratio Lower Upper
112 100
114 21.0 25.6 38.4#



#67
m/p-Xylenes
Concen: 0.408 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.006 min
Lab File: VX033652.D
Acq: 07 Jan 2023 00:59

Tgt Ion:106 Resp: 1296
Ion Ratio Lower Upper
106 100
91 215.6 157.3 235.9





#69

Styrene

Concen: 0.215 ug/l

RT: 10.659 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX033652.D

Acq: 07 Jan 2023 00:59

Instrument :

MSVOA_X

ClientSampleId :

IBLK

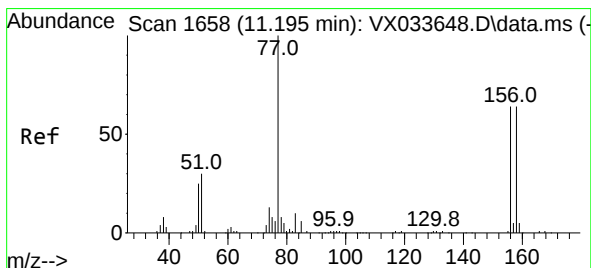
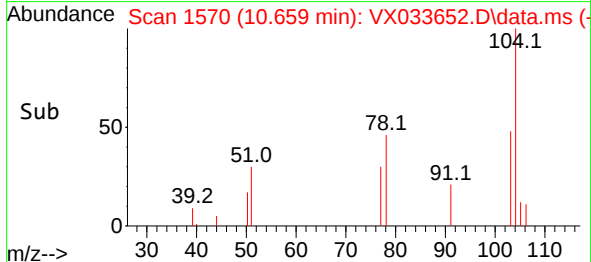
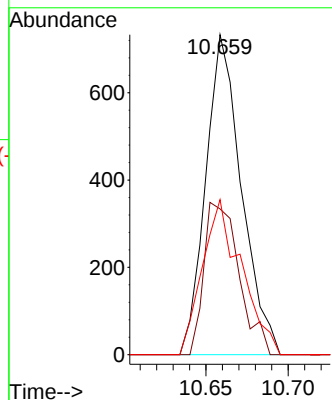
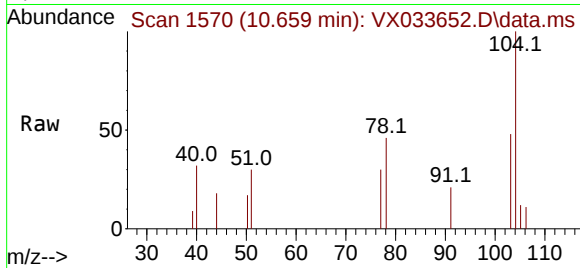
Tgt Ion:104 Resp: 1108

Ion Ratio Lower Upper

104 100

78 46.5 39.3 58.9

103 52.8 43.2 64.8



#73

Bromobenzene

Concen: 0.311 ug/l

RT: 11.201 min Scan# 1659

Delta R.T. 0.006 min

Lab File: VX033652.D

Acq: 07 Jan 2023 00:59

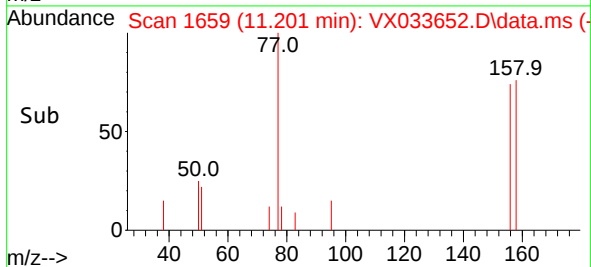
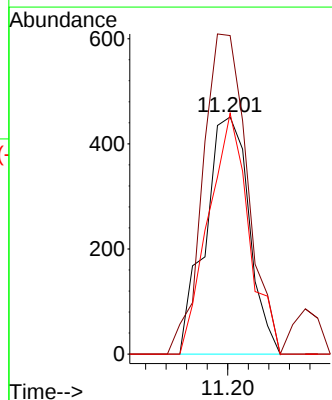
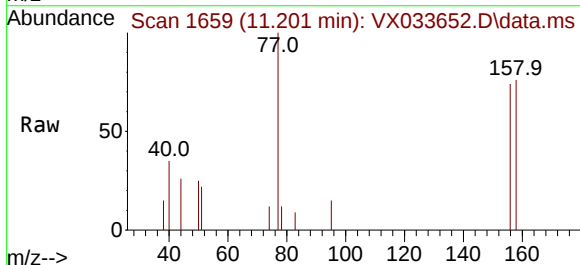
Tgt Ion:156 Resp: 666

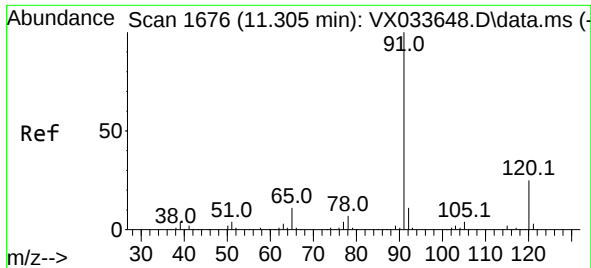
Ion Ratio Lower Upper

156 100

77 137.5 0.0 287.2

158 93.5 0.0 196.2

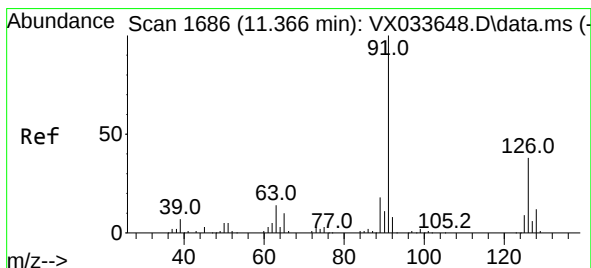
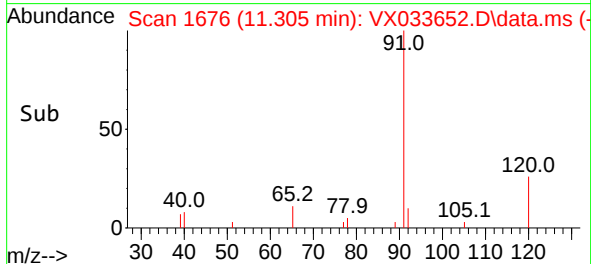
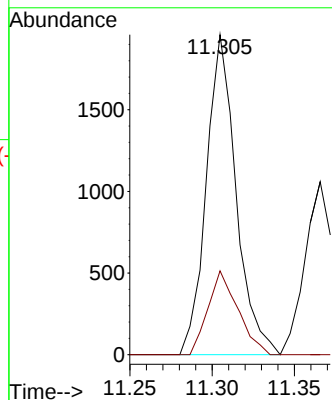
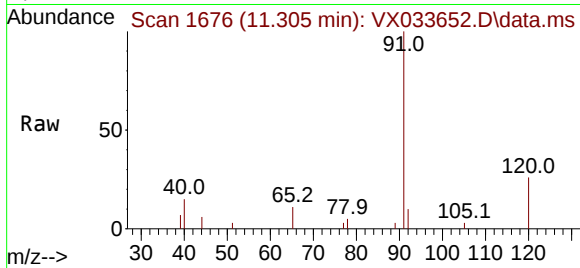




#74
n-propylbenzene
Concen: 0.269 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX033652.D
Acq: 07 Jan 2023 00:59

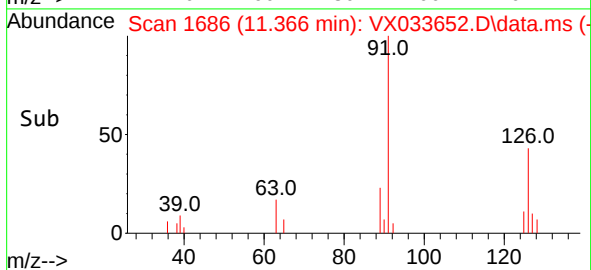
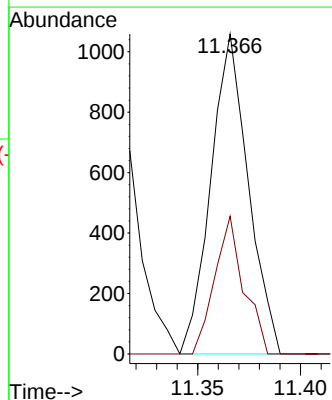
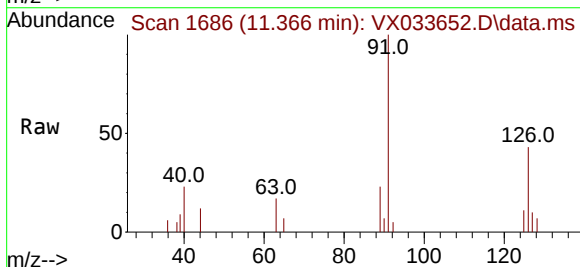
Instrument :
MSVOA_X
ClientSampleId :
IBLK

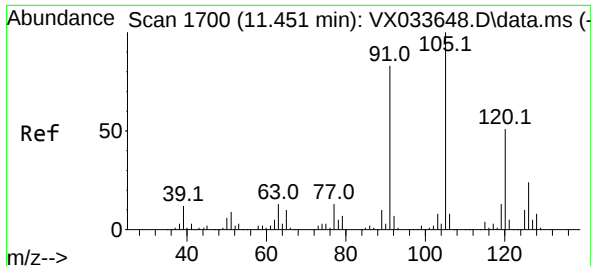
Tgt Ion: 91 Resp: 2465
Ion Ratio Lower Upper
91 100
120 26.4 0.0 48.8



#75
2-Chlorotoluene
Concen: 0.244 ug/l
RT: 11.366 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VX033652.D
Acq: 07 Jan 2023 00:59

Tgt Ion: 91 Resp: 1339
Ion Ratio Lower Upper
91 100
126 33.5 0.0 72.0





#76

1,3,5-Trimethylbenzene

Concen: 0.219 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. -0.000 min

Lab File: VX033652.D

Acq: 07 Jan 2023 00:59

Instrument :

MSVOA_X

ClientSampleId :

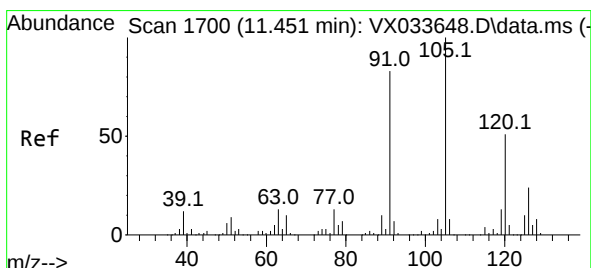
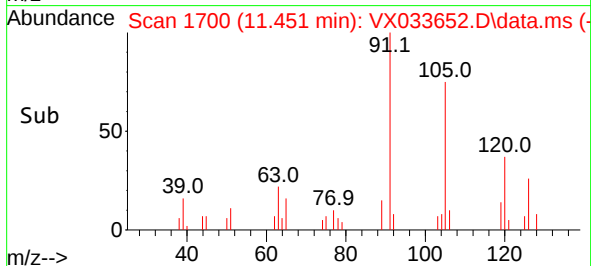
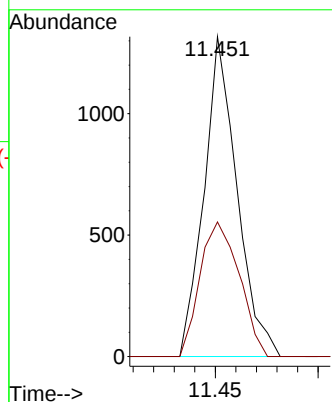
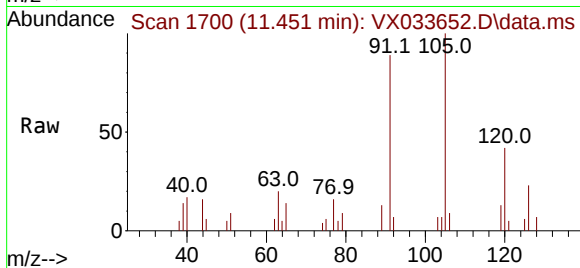
IBLK

Tgt Ion:105 Resp: 1468

Ion Ratio Lower Upper

105 100

120 50.1 0.0 100.4



#78

4-Chlorotoluene

Concen: 0.371 ug/l

RT: 11.457 min Scan# 1701

Delta R.T. 0.006 min

Lab File: VX033652.D

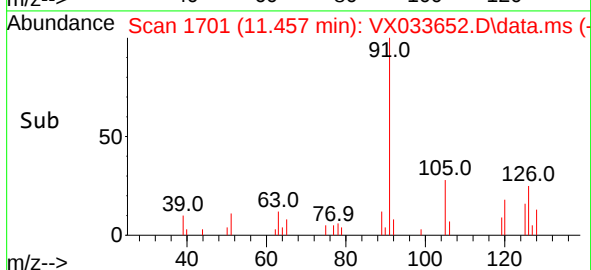
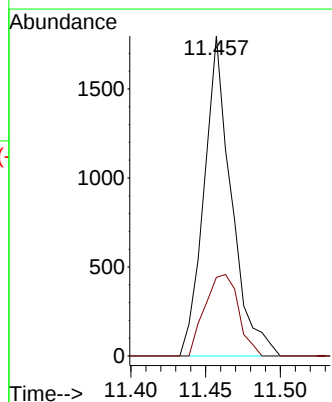
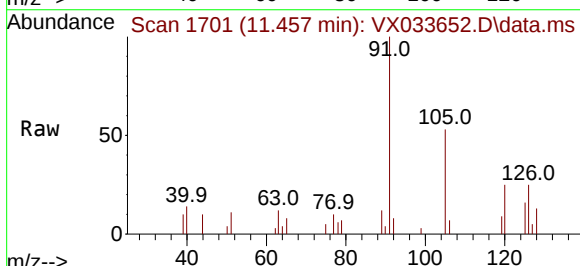
Acq: 07 Jan 2023 00:59

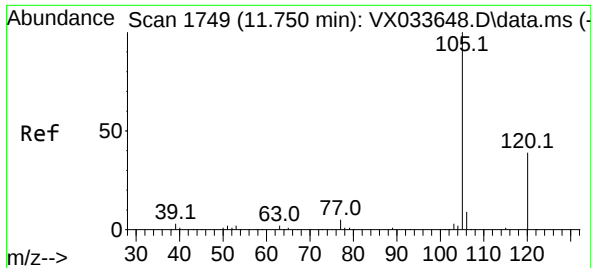
Tgt Ion: 91 Resp: 2283

Ion Ratio Lower Upper

91 100

126 31.3 0.0 63.6

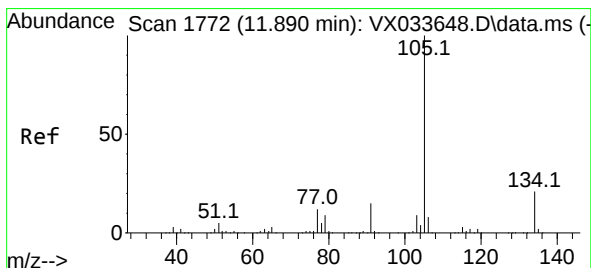
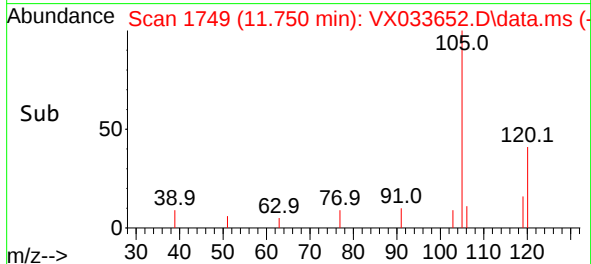
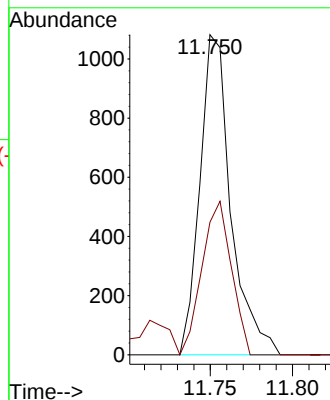
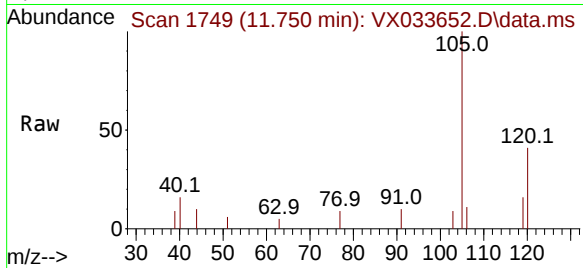




#80
1,2,4-Trimethylbenzene
Concen: 0.214 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX033652.D
Acq: 07 Jan 2023 00:59

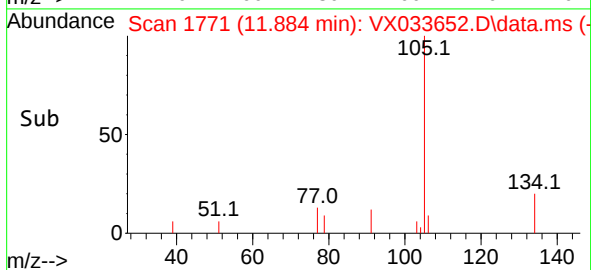
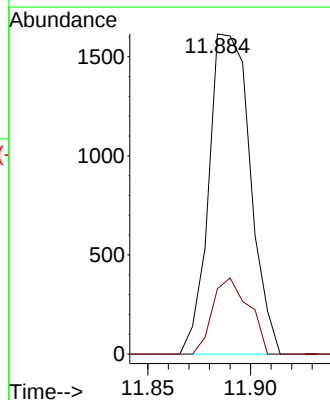
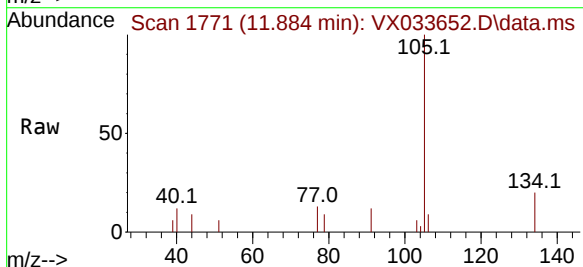
Instrument :
MSVOA_X
ClientSampleId :
IBLK

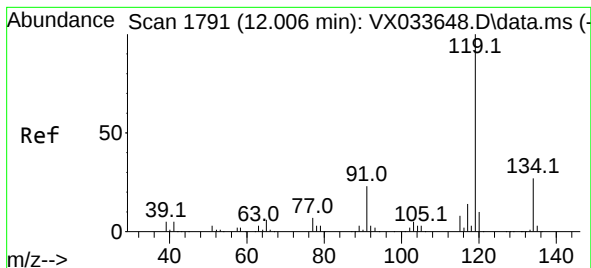
Tgt Ion:105 Resp: 1419
Ion Ratio Lower Upper
105 100
120 45.5 0.0 91.2



#81
sec-Butylbenzene
Concen: 0.271 ug/l
RT: 11.884 min Scan# 1771
Delta R.T. -0.006 min
Lab File: VX033652.D
Acq: 07 Jan 2023 00:59

Tgt Ion:105 Resp: 2260
Ion Ratio Lower Upper
105 100
134 20.8 0.0 43.2

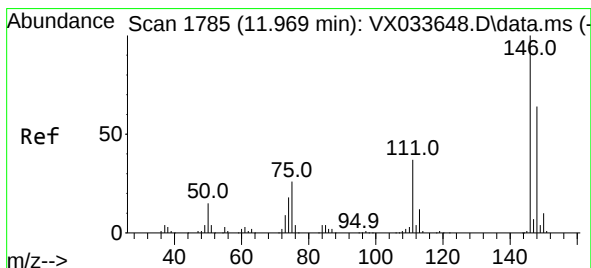
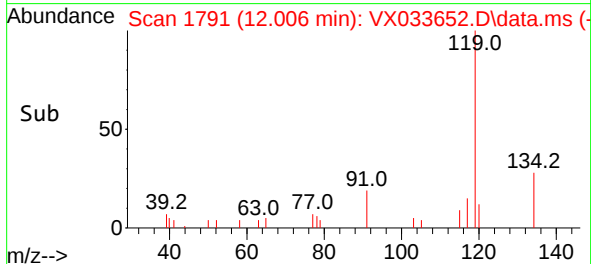
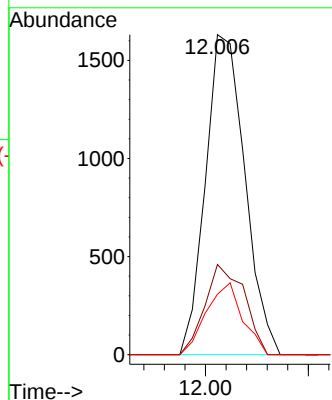
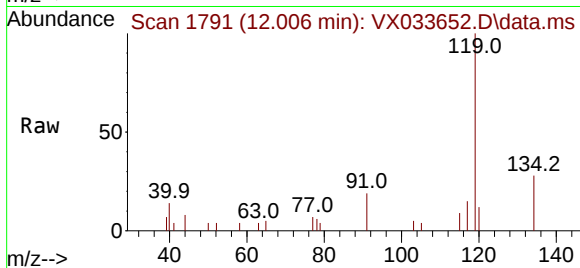




#82
p-Isopropyltoluene
Concen: 0.302 ug/l
RT: 12.006 min Scan# 119
Delta R.T. -0.000 min
Lab File: VX033652.D
Acq: 07 Jan 2023 00:59

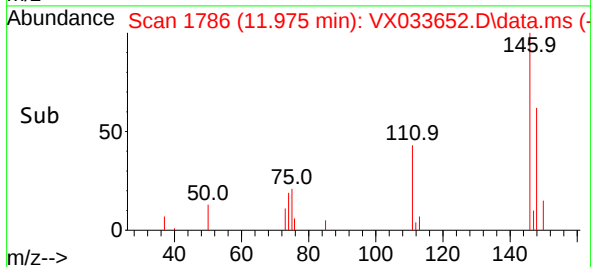
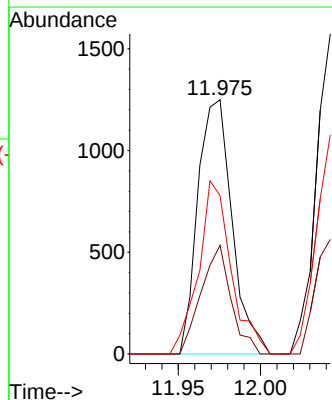
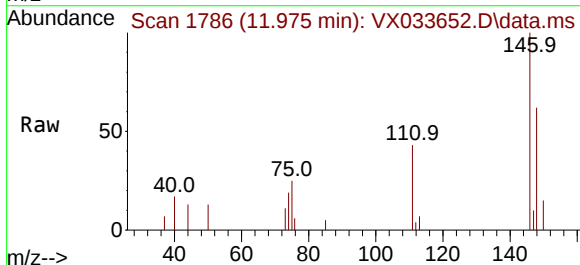
Instrument :
MSVOA_X
ClientSampleId :
IBLK

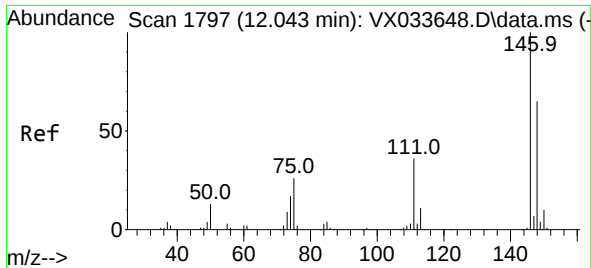
Tgt Ion:	119	Resp:	2167
Ion	Ratio	Lower	Upper
119	100		
134	28.2	0.0	54.4
91	20.6	0.0	45.2



#83
1,3-Dichlorobenzene
Concen: 0.463 ug/l
RT: 11.975 min Scan# 1786
Delta R.T. 0.006 min
Lab File: VX033652.D
Acq: 07 Jan 2023 00:59

Tgt Ion:	146	Resp:	1809
Ion	Ratio	Lower	Upper
146	100		
111	37.3	18.8	56.3
148	65.0	31.7	95.1

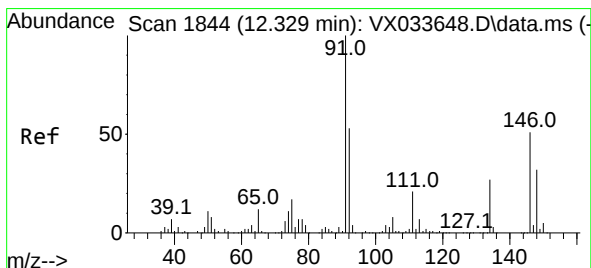
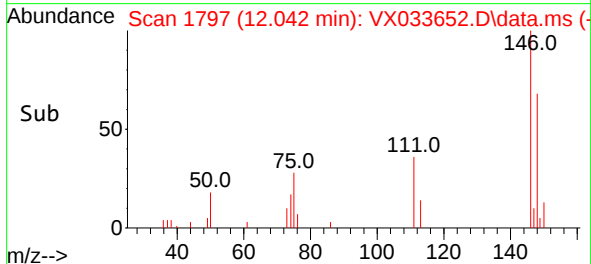
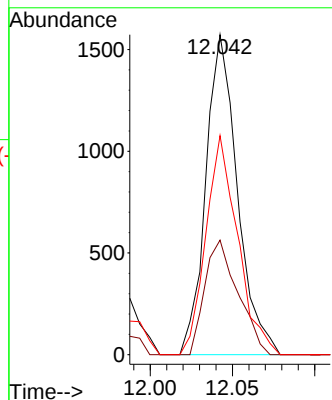
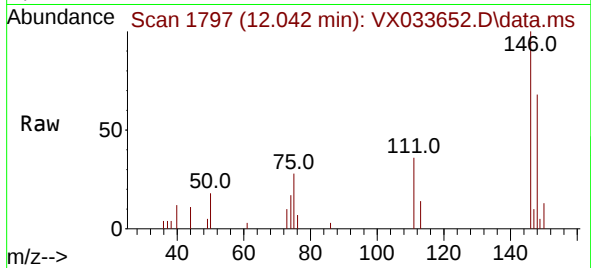




#84
1,4-Dichlorobenzene
Concen: 0.540 ug/l
RT: 12.042 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX033652.D
Acq: 07 Jan 2023 00:59

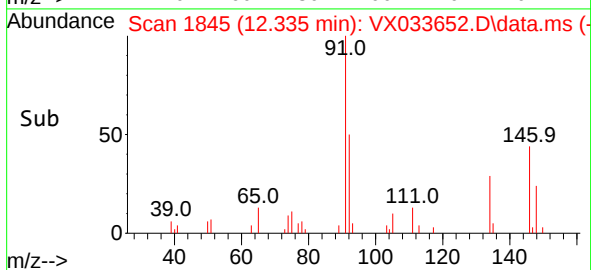
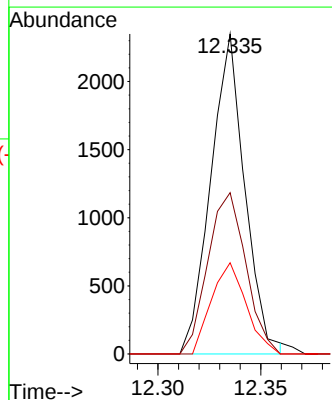
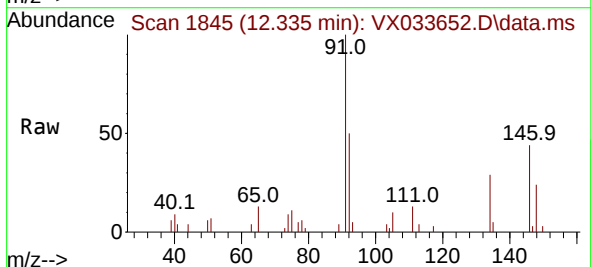
Instrument :
MSVOA_X
ClientSampleId :
IBLK

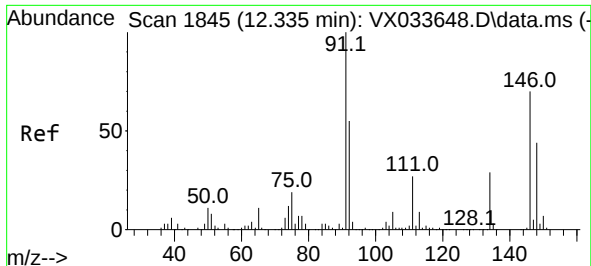
Tgt Ion:146 Resp: 2101
Ion Ratio Lower Upper
146 100
111 37.6 18.3 54.9
148 69.0 31.9 95.7



#85
n-Butylbenzene
Concen: 0.464 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.006 min
Lab File: VX033652.D
Acq: 07 Jan 2023 00:59

Tgt Ion: 91 Resp: 2706
Ion Ratio Lower Upper
91 100
92 56.3 0.0 108.2
134 29.1 0.0 55.4

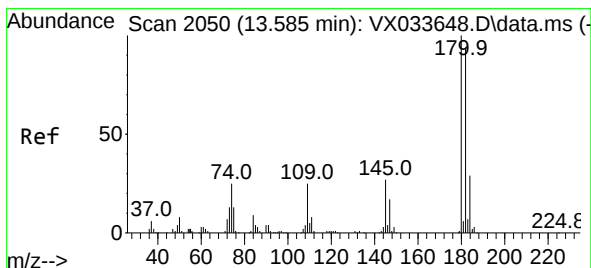
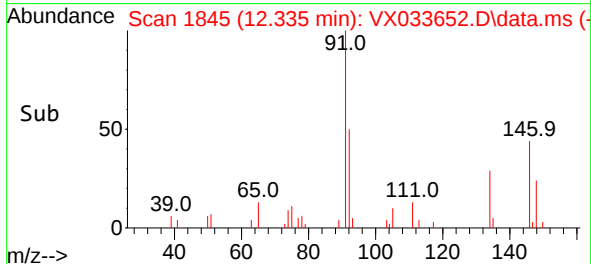
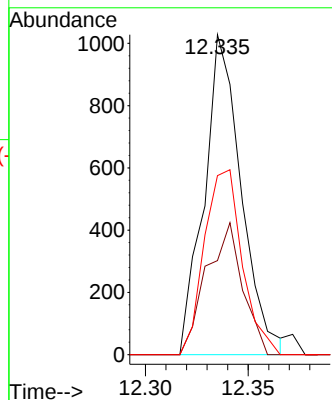
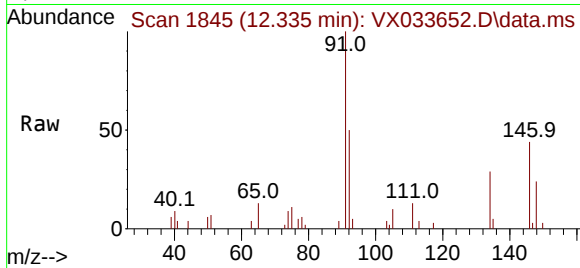




#87
1,2-Dichlorobenzene
Concen: 0.343 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. -0.000 min
Lab File: VX033652.D
Acq: 07 Jan 2023 00:59

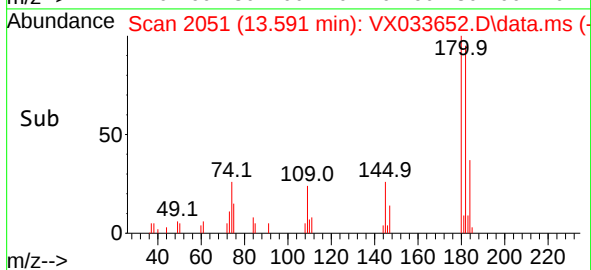
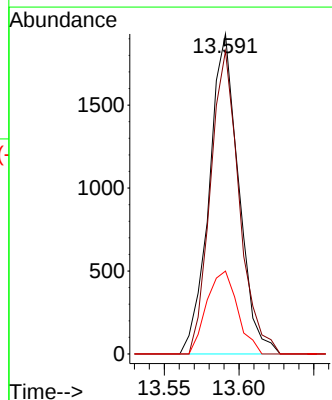
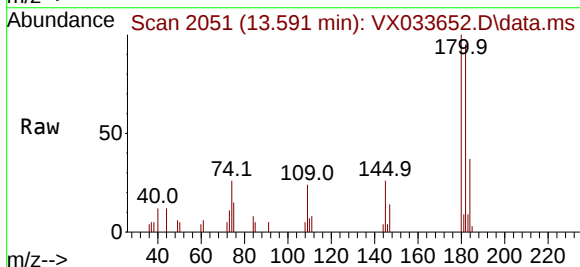
Instrument :
MSVOA_X
ClientSampleId :
IBLK

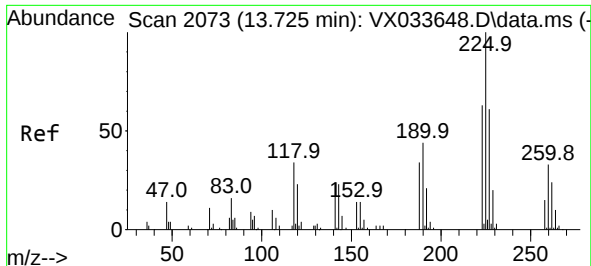
Tgt Ion:146 Resp: 1290
Ion Ratio Lower Upper
146 100
111 40.2 19.7 59.0
148 59.1 31.9 95.9



#89
1,2,4-Trichlorobenzene
Concen: 1.021 ug/l
RT: 13.591 min Scan# 2051
Delta R.T. 0.006 min
Lab File: VX033652.D
Acq: 07 Jan 2023 00:59

Tgt Ion:180 Resp: 2642
Ion Ratio Lower Upper
180 100
182 92.4 76.7 115.1
145 27.1 21.8 32.6

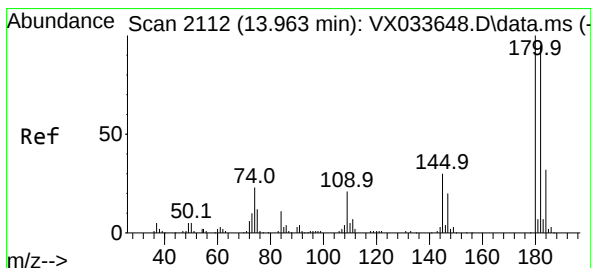
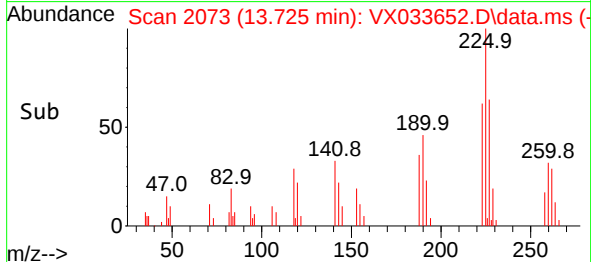
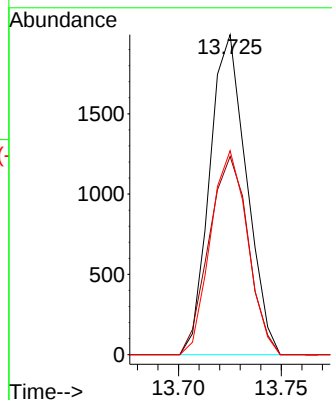
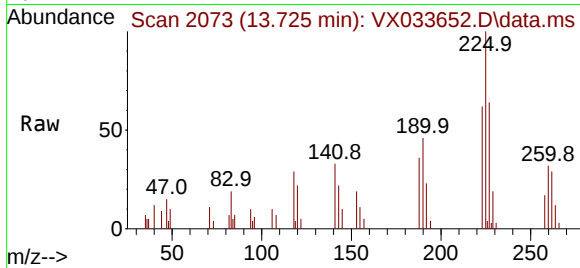




#90
Hexachlorobutadiene
Concen: 2.004 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX033652.D
Acq: 07 Jan 2023 00:59

Instrument :
MSVOA_X
ClientSampleId :
IBLK

Tgt Ion:225 Resp: 2485
Ion Ratio Lower Upper
225 100
223 66.0 0.0 127.0
227 64.1 0.0 123.0



#92
1,2,3-Trichlorobenzene
Concen: 1.046 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX033652.D
Acq: 07 Jan 2023 00:59

Tgt Ion:180 Resp: 2714
Ion Ratio Lower Upper
180 100
182 93.0 0.0 191.2
145 30.6 0.0 60.4

