

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081324\
 Data File : VX043014.D
 Acq On : 13 Aug 2024 14:51
 Operator : JC/MD
 Sample : VX0813WBL01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 14 04:33:12 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X081324W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Aug 13 13:22:56 2024
 Response via : Initial Calibration

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

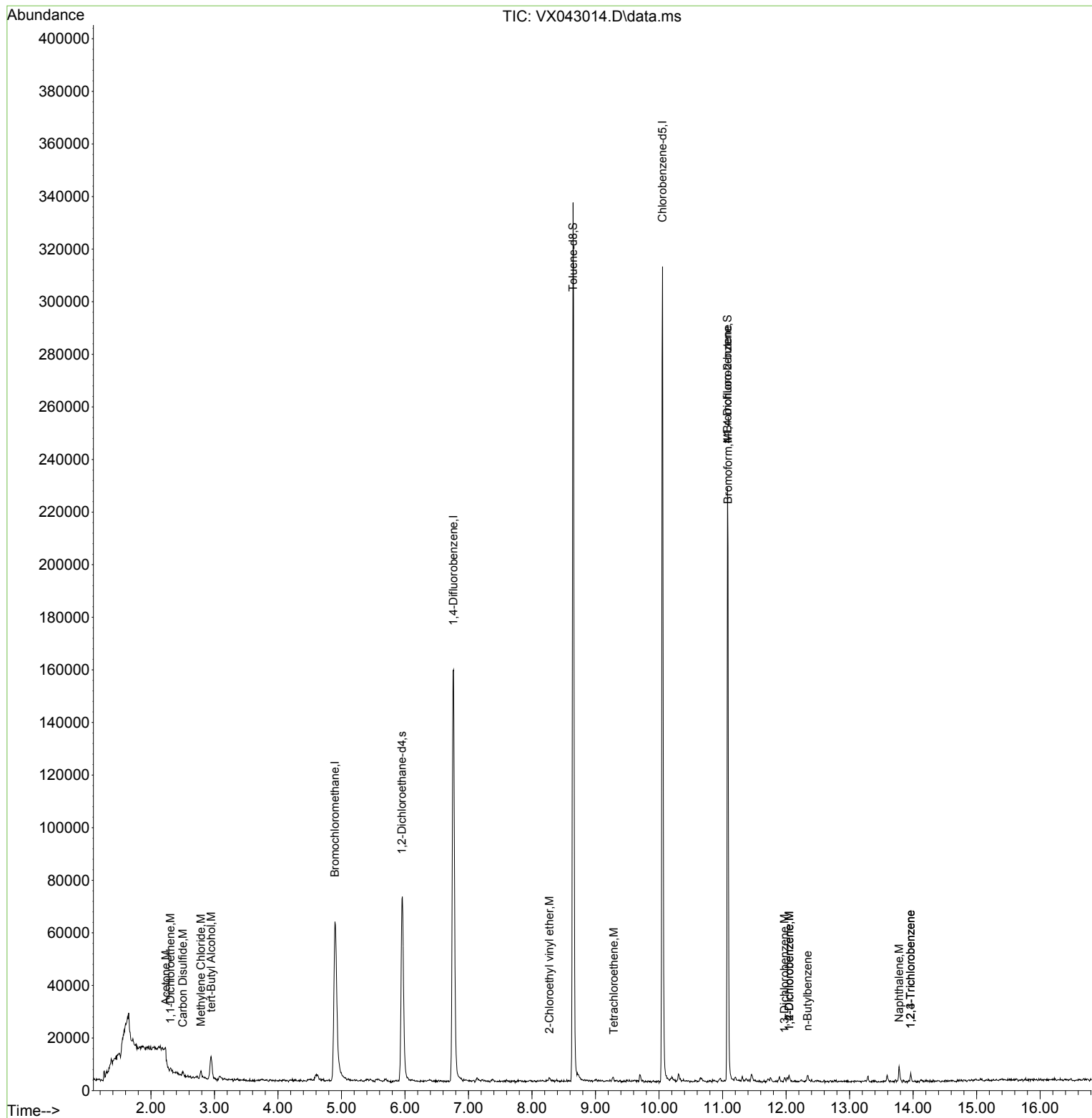
Internal Standards						
1) Bromochloromethane	4.897	128	28853	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	167561	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	143873	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	64154	27.468	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	91.567%
60) 4-Bromofluorobenzene	11.079	95	66201	27.105	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	90.333%
63) Toluene-d8	8.647	98	202011	30.566	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.900%
Target Compounds						
					Qvalue	
10) 1,1-Dichloroethene	2.306	96	463	0.233	ug/l #	54
15) Acetone	2.233	58	150	0.394	ug/l	83
16) Carbon Disulfide	2.501	76	2654	0.452	ug/l #	88
18) Methylene Chloride	2.788	84	1482	0.644	ug/l #	87
23) tert-Butyl Alcohol	2.946	59	5003	8.425	ug/l #	99
55) 2-Chloroethyl vinyl ether	8.275	63	896	0.525	ug/l #	91
56) Bromoform	11.085	173	456	0.307	ug/l #	1
61) Tetrachloroethene	9.287	164	355	0.234	ug/l #	57
77) t-1,4-Dichloro-2-butene	11.079	75	31615	25.483	ug/l #	11
83) 1,3-Dichlorobenzene	11.975	146	721	0.203	ug/l	95
84) 1,4-Dichlorobenzene	12.048	146	719	0.202	ug/l	75
85) n-Butylbenzene	12.341	91	1284	0.203	ug/l	79
87) 1,2-Dichlorobenzene	12.048	146	719	0.204	ug/l	77
89) 1,2,4-Trichlorobenzene	13.963	180	777	0.372	ug/l	96
91) Naphthalene	13.780	128	4142	0.508	ug/l	97
92) 1,2,3-Trichlorobenzene	13.963	180	777	0.365	ug/l	98

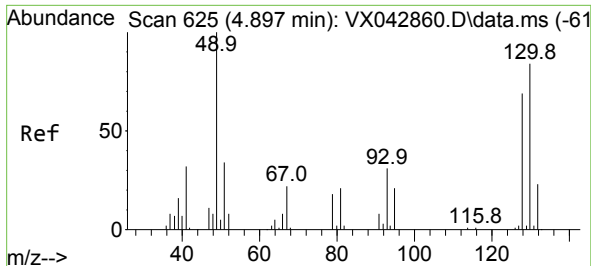
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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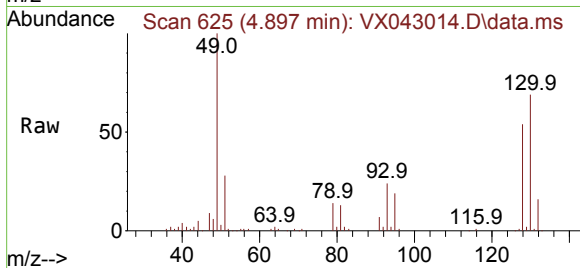
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X081324W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Aug 13 13:22:56 2024
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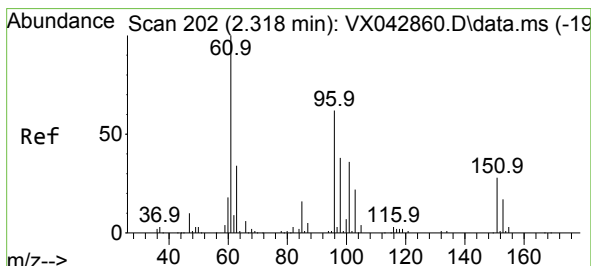
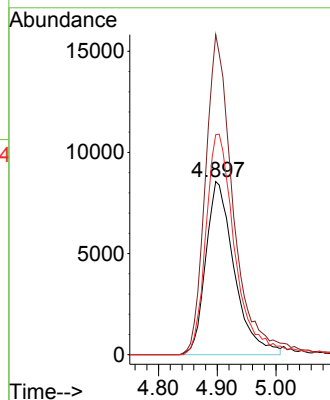
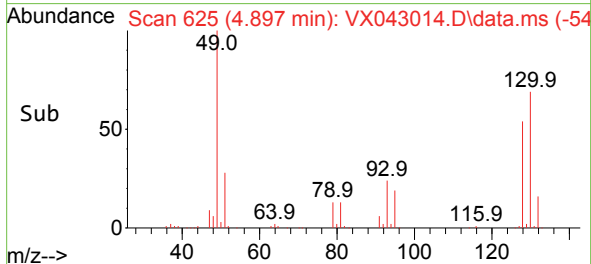


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.897 min Scan# 61
Delta R.T. -0.001 min
Lab File: VX043014.D
Acq: 13 Aug 2024 14:51

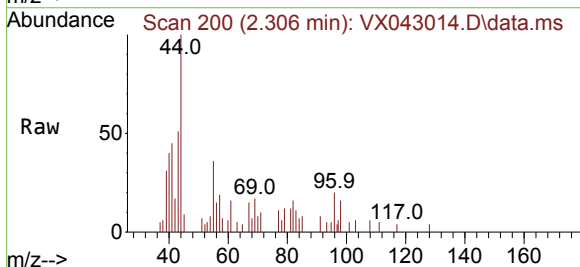
Instrument :
MSVOA_X
ClientSampleId :



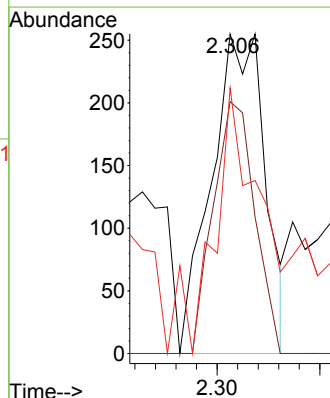
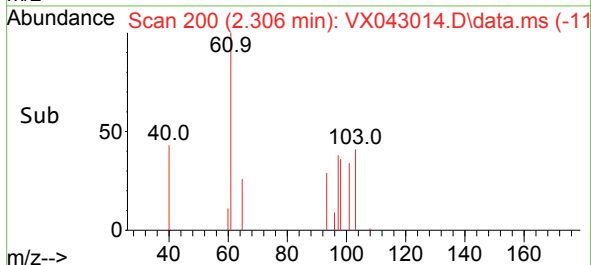
Tgt Ion:128 Resp: 28853
Ion Ratio Lower Upper
128 100
49 175.0 0.0 400.5
130 126.5 0.0 333.0

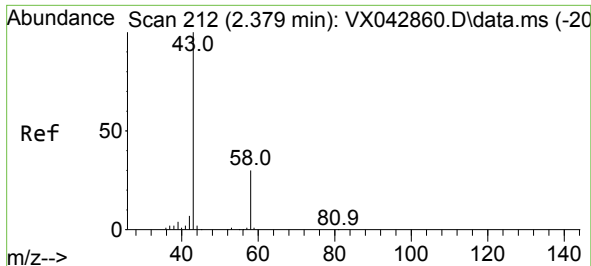


#10
1,1-Dichloroethene
Concen: 0.233 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX043014.D
Acq: 13 Aug 2024 14:51



Tgt Ion: 96 Resp: 463
Ion Ratio Lower Upper
96 100
61 78.8 129.2 193.8#
98 57.6 48.6 72.8

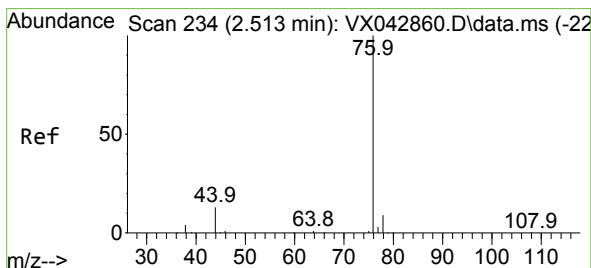
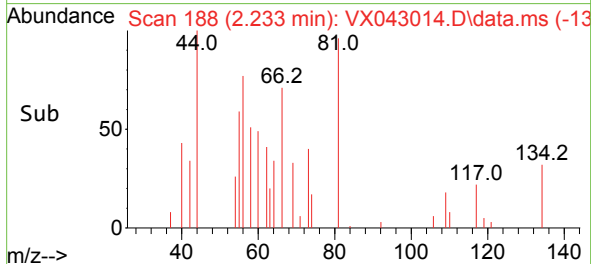
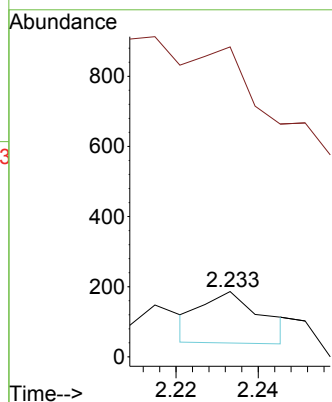
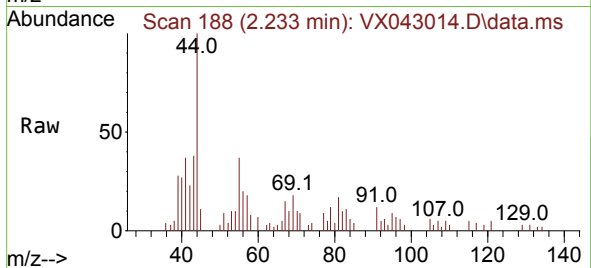




#15
Acetone
Concen: 0.394 ug/l
RT: 2.233 min Scan# 11
Delta R.T. -0.159 min
Lab File: VX043014.D
Acq: 13 Aug 2024 14:51

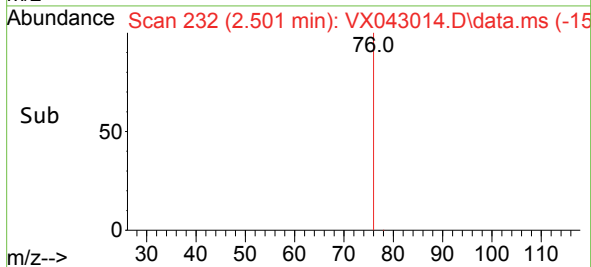
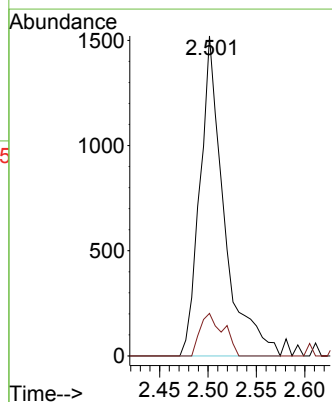
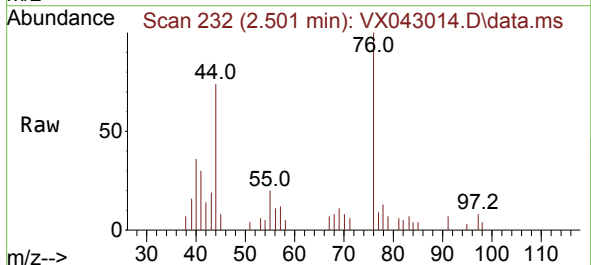
Instrument :
MSVOA_X
ClientSampleId :

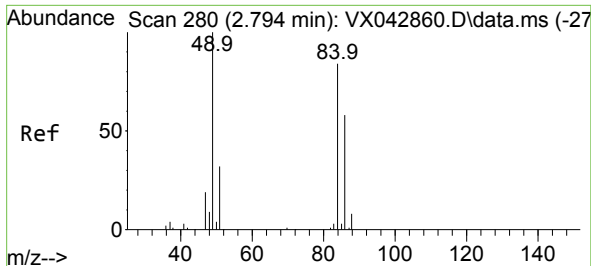
Tgt Ion: 58 Resp: 150
Ion Ratio Lower Upper
58 100
43 301.4 269.9 404.9



#16
Carbon Disulfide
Concen: 0.452 ug/l
RT: 2.501 min Scan# 232
Delta R.T. -0.000 min
Lab File: VX043014.D
Acq: 13 Aug 2024 14:51

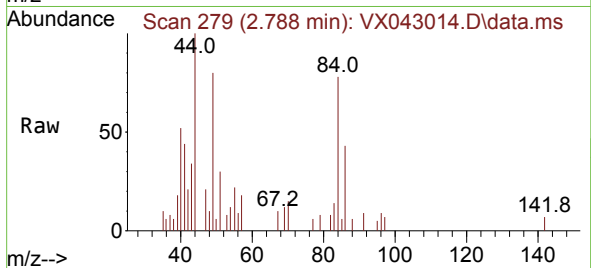
Tgt Ion: 76 Resp: 2654
Ion Ratio Lower Upper
76 100
78 13.3 7.1 10.7#



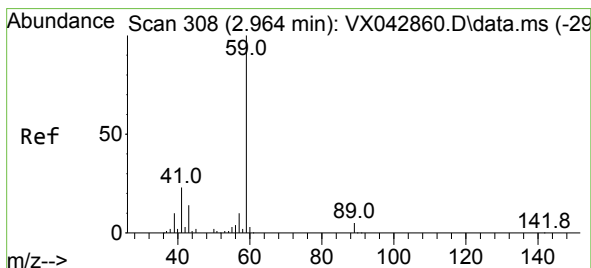
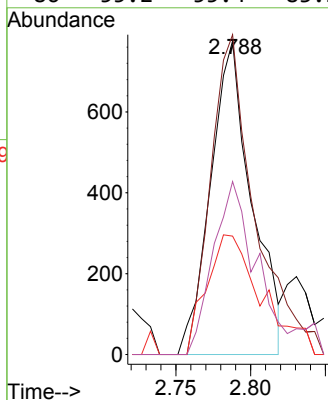
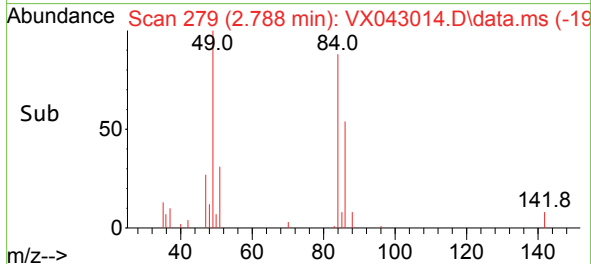


#18
Methylene Chloride
Concen: 0.644 ug/l
RT: 2.788 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX043014.D
Acq: 13 Aug 2024 14:51

Instrument :
MSVOA_X
ClientSampleId :

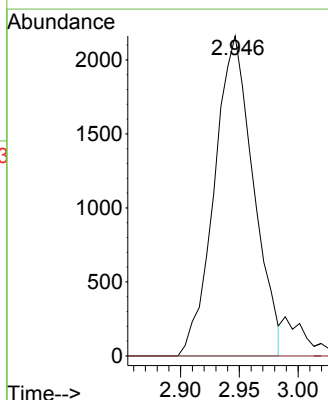
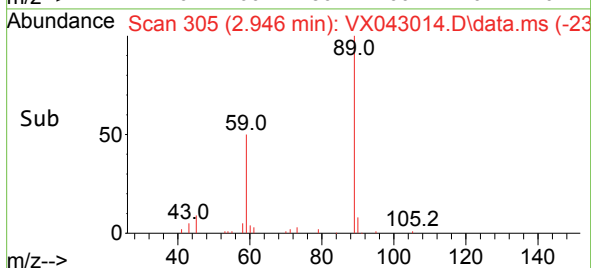
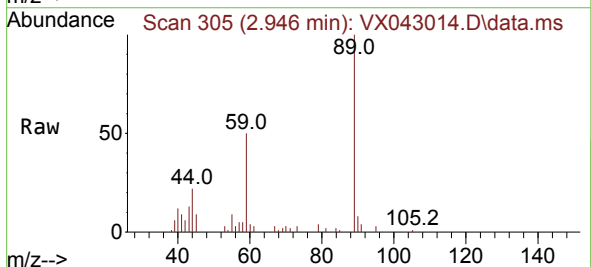


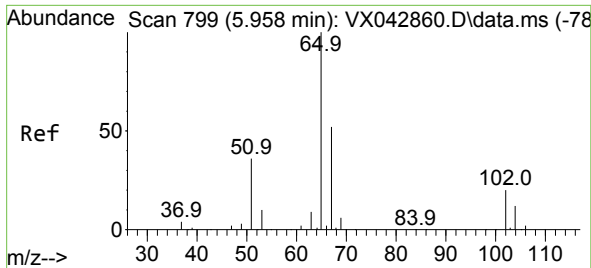
Tgt Ion: 84 Resp: 1482
Ion Ratio Lower Upper
84 100
49 101.9 95.0 142.6
51 37.8 30.1 45.1
86 55.2 55.4 83.2#



#23
tert-Butyl Alcohol
Concen: 8.425 ug/l
RT: 2.946 min Scan# 305
Delta R.T. -0.049 min
Lab File: VX043014.D
Acq: 13 Aug 2024 14:51

Tgt Ion: 59 Resp: 5003
Ion Ratio Lower Upper
59 100
52 1.6 0.1 0.1#

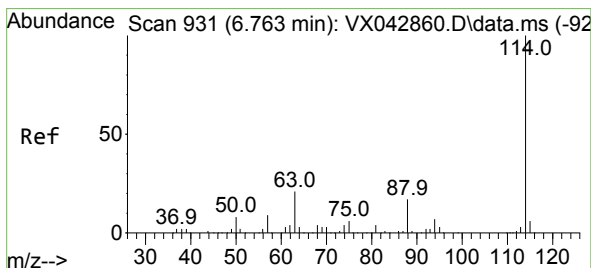
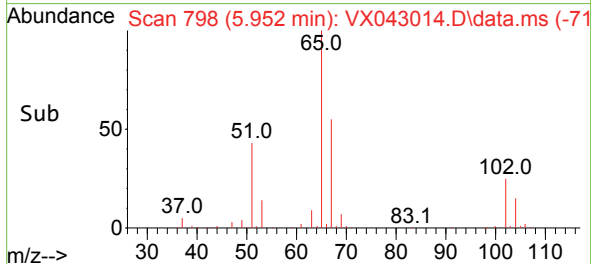
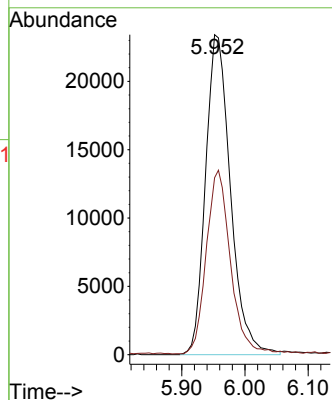
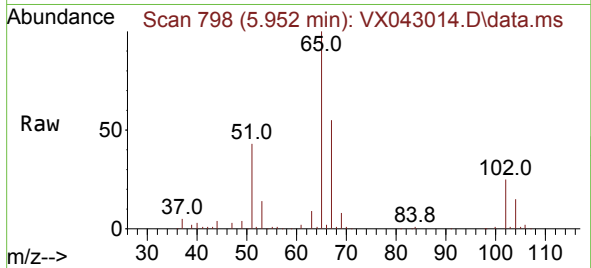




#27
 1,2-Dichloroethane-d4
 Concen: 27.468 ug/l
 RT: 5.952 min Scan# 799
 Delta R.T. -0.006 min
 Lab File: VX043014.D
 Acq: 13 Aug 2024 14:51

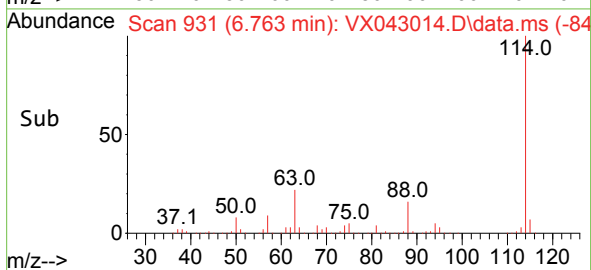
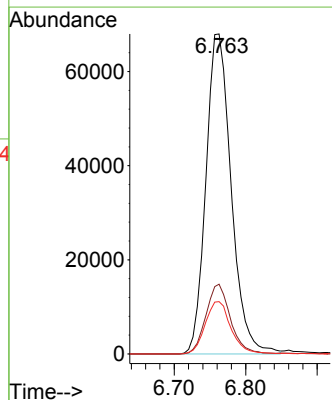
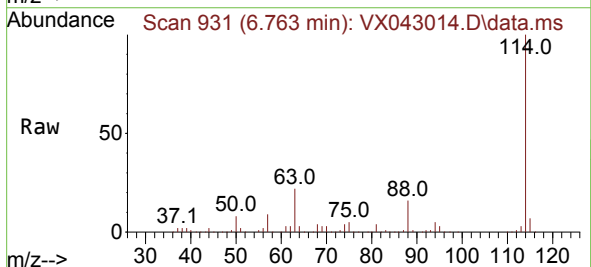
Instrument :
 MSVOA_X
 ClientSampleId :

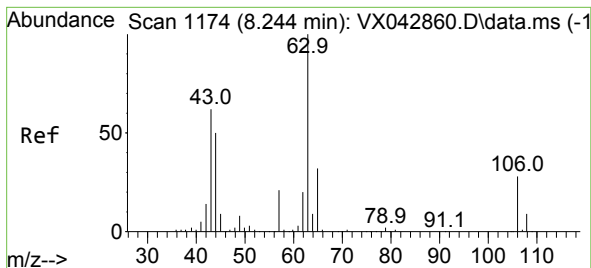
Tgt Ion: 65 Resp: 64154
 Ion Ratio Lower Upper
 65 100
 67 55.4 40.6 60.8



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.763 min Scan# 931
 Delta R.T. 0.006 min
 Lab File: VX043014.D
 Acq: 13 Aug 2024 14:51

Tgt Ion: 114 Resp: 167561
 Ion Ratio Lower Upper
 114 100
 63 21.1 16.0 24.0
 88 16.7 12.5 18.7

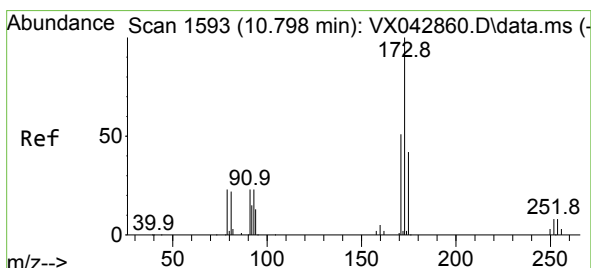
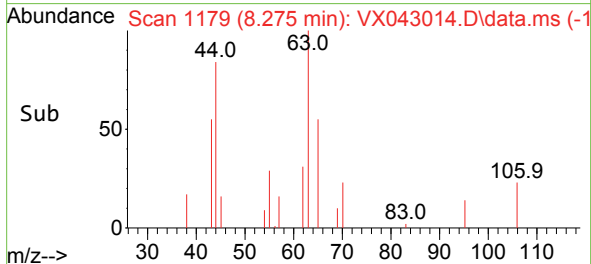
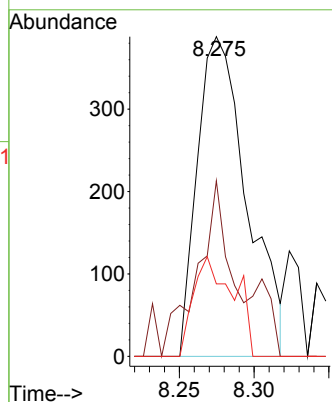
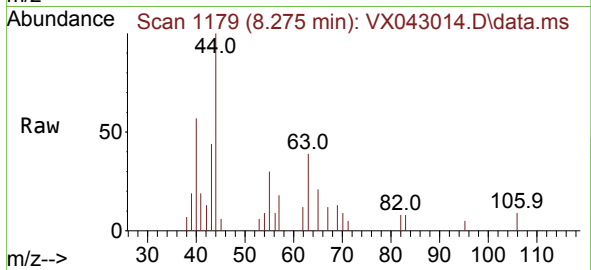




#55
2-Chloroethyl vinyl ether
Concen: 0.525 ug/l
RT: 8.275 min Scan# 1174
Delta R.T. 0.036 min
Lab File: VX043014.D
Acq: 13 Aug 2024 14:51

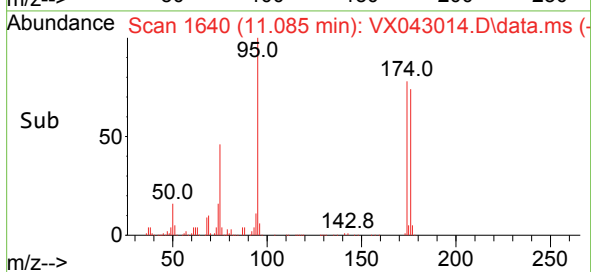
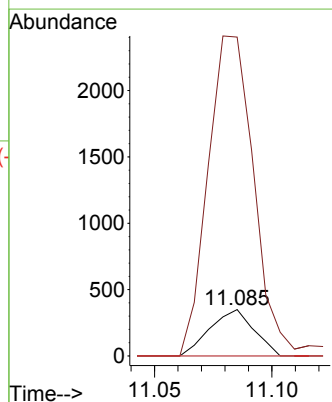
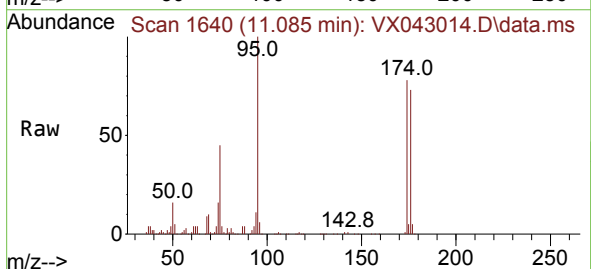
Instrument :
MSVOA_X
ClientSampleId :

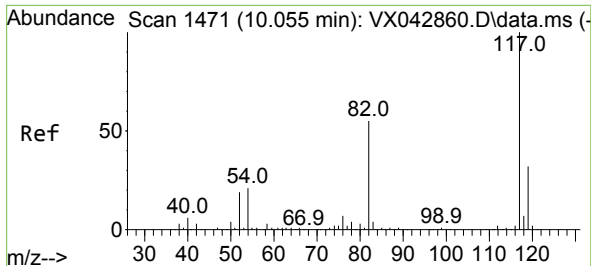
Tgt Ion: 63 Resp: 896
Ion Ratio Lower Upper
63 100
65 29.4 26.3 39.5
106 21.1 21.8 32.6#



#56
Bromoform
Concen: 0.307 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. 0.286 min
Lab File: VX043014.D
Acq: 13 Aug 2024 14:51

Tgt Ion: 173 Resp: 456
Ion Ratio Lower Upper
173 100
175 714.9 37.1 55.7#
254 0.0 6.6 10.0#

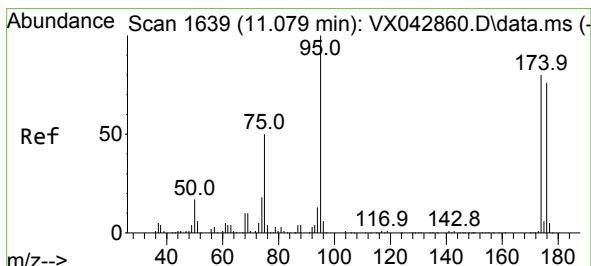
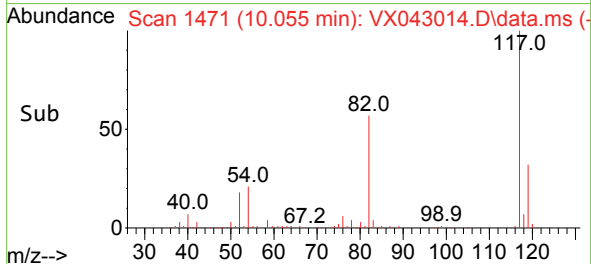
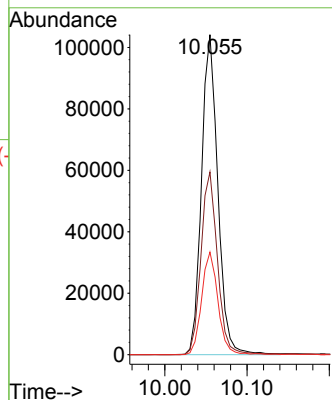
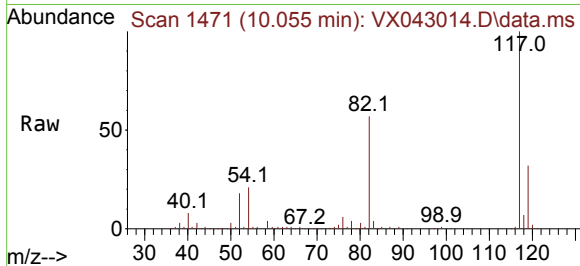




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX043014.D
Acq: 13 Aug 2024 14:51

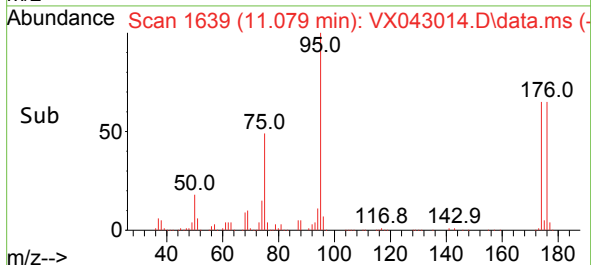
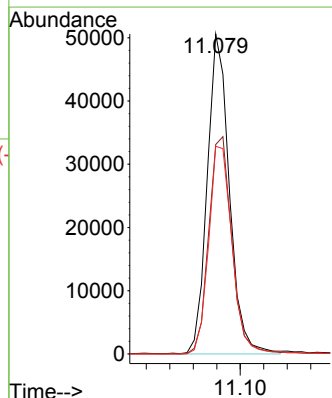
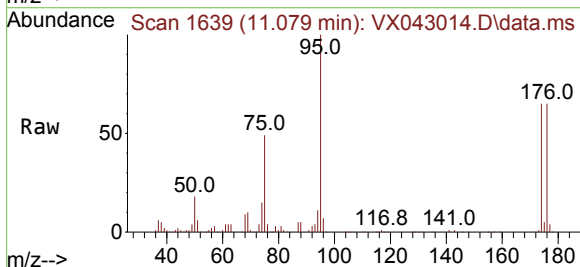
Instrument :
MSVOA_X
ClientSampleId :

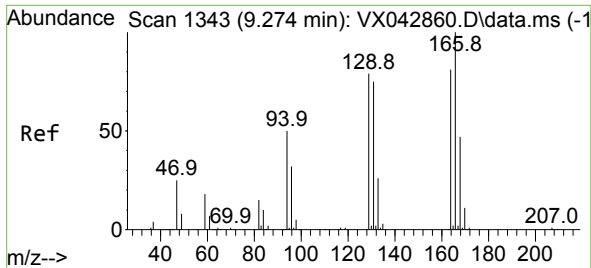
Tgt Ion:117 Resp: 143873
Ion Ratio Lower Upper
117 100
82 57.2 44.9 67.3
119 31.9 25.4 38.2



#60
4-Bromofluorobenzene
Concen: 27.105 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX043014.D
Acq: 13 Aug 2024 14:51

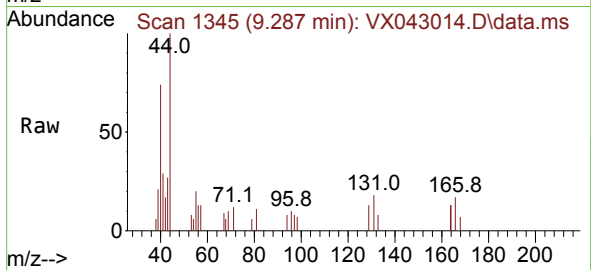
Tgt Ion: 95 Resp: 66201
Ion Ratio Lower Upper
95 100
174 71.0 65.0 97.6
176 69.0 63.4 95.0



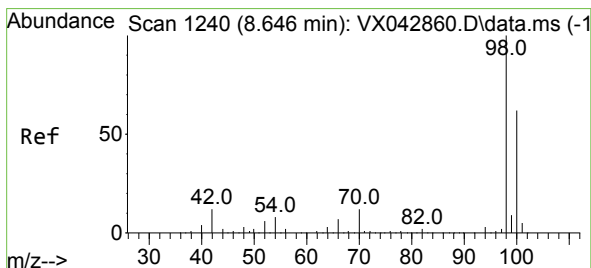
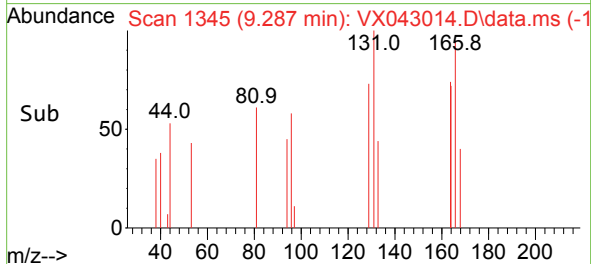
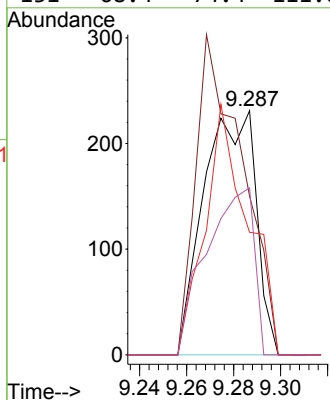


#61
Tetrachloroethene
Concen: 0.234 ug/l
RT: 9.287 min Scan# 11
Delta R.T. 0.012 min
Lab File: VX043014.D
Acq: 13 Aug 2024 14:51

Instrument :
MSVOA_X
ClientSampleId :

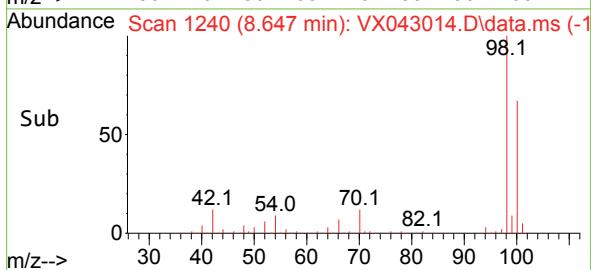
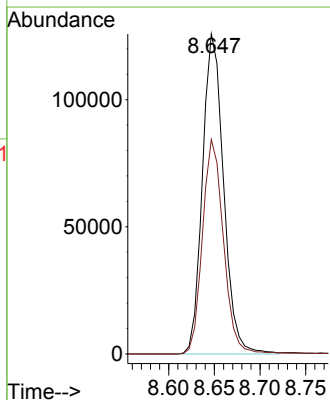
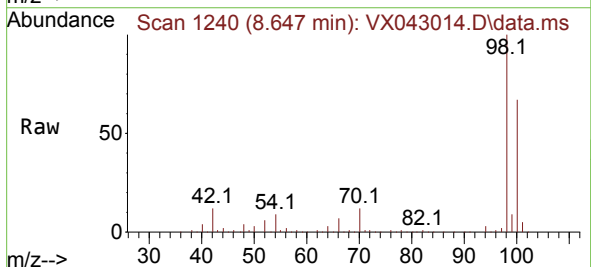


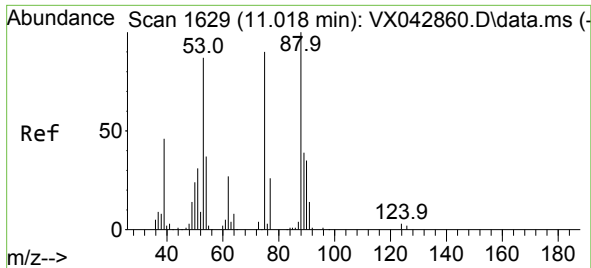
Tgt Ion:164 Resp: 355
Ion Ratio Lower Upper
164 100
166 64.9 98.6 147.8#
129 50.2 77.4 116.0#
131 68.4 74.4 111.6#



#63
Toluene-d8
Concen: 30.566 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX043014.D
Acq: 13 Aug 2024 14:51

Tgt Ion: 98 Resp: 202011
Ion Ratio Lower Upper
98 100
100 66.8 50.9 76.3

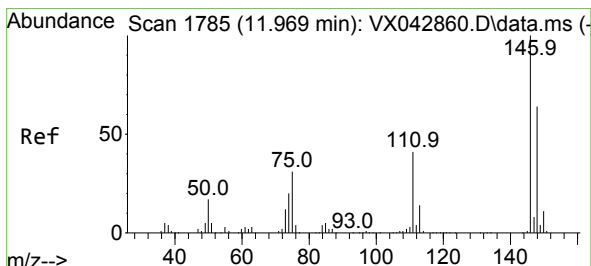
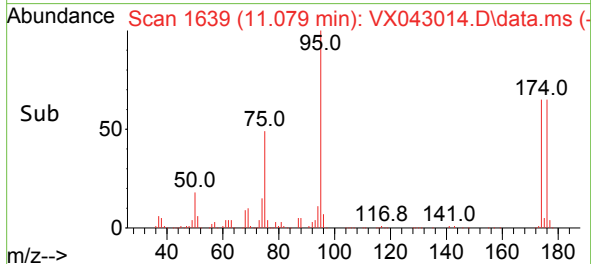
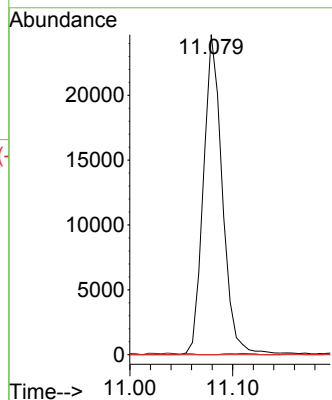
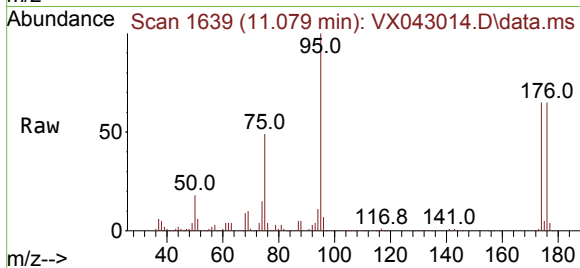




#77
t-1,4-Dichloro-2-butene
Concen: 25.483 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX043014.D
Acq: 13 Aug 2024 14:51

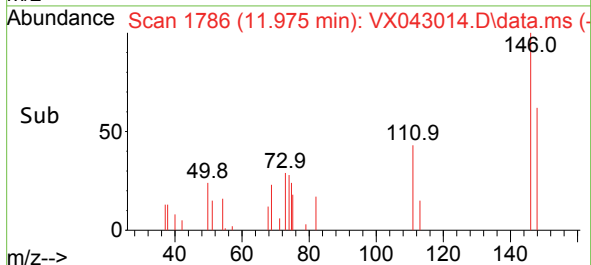
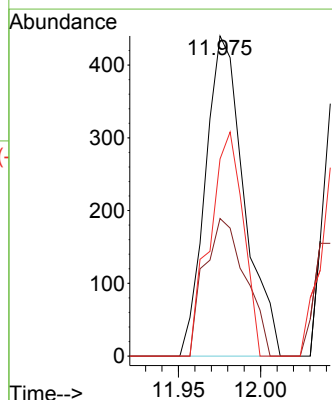
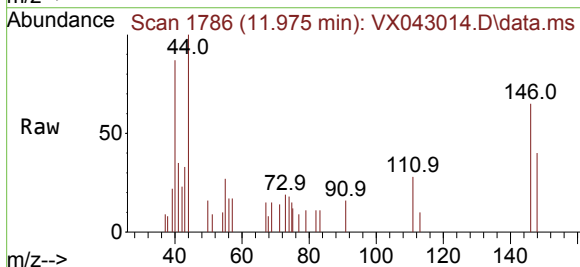
Instrument :
MSVOA_X
ClientSampleId :

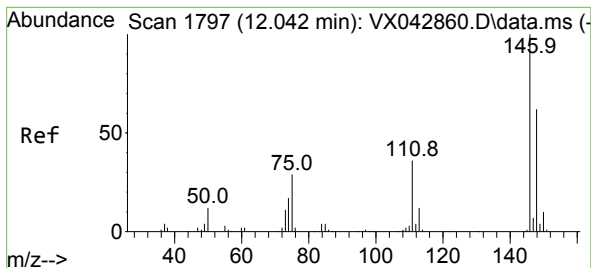
Tgt Ion: 75 Resp: 31615
Ion Ratio Lower Upper
75 100
53 0.0 48.5 145.5#
89 0.0 21.9 65.5#



#83
1,3-Dichlorobenzene
Concen: 0.203 ug/l
RT: 11.975 min Scan# 1786
Delta R.T. 0.006 min
Lab File: VX043014.D
Acq: 13 Aug 2024 14:51

Tgt Ion:146 Resp: 721
Ion Ratio Lower Upper
146 100
111 45.5 20.3 61.0
148 60.3 31.7 95.1





#84

1,4-Dichlorobenzene

Concen: 0.202 ug/l

RT: 12.048 min Scan# 1797

Delta R.T. 0.006 min

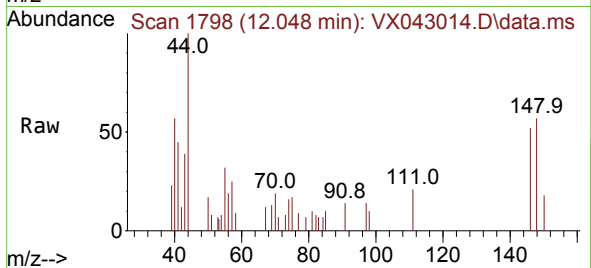
Lab File: VX043014.D

Acq: 13 Aug 2024 14:51

Instrument :

MSVOA_X

ClientSampleId :



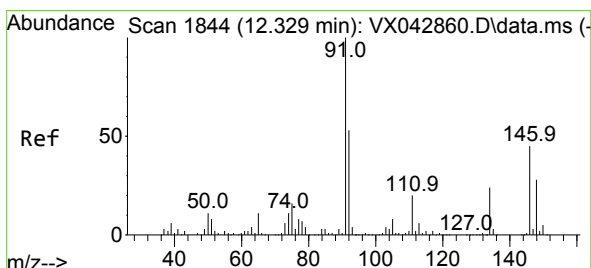
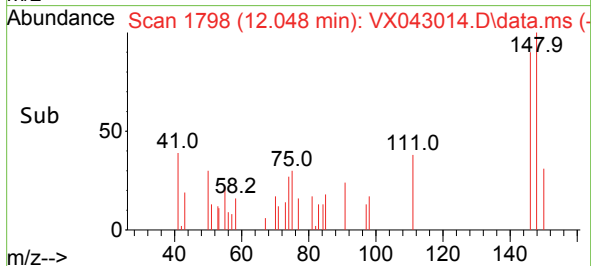
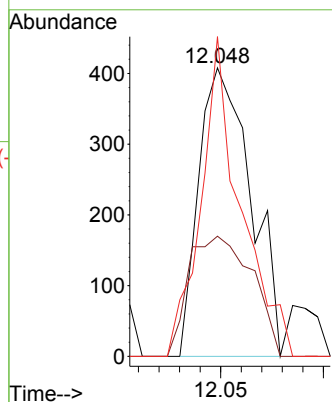
Tgt Ion:146 Resp: 719

Ion Ratio Lower Upper

146 100

111 50.9 19.4 58.4

148 84.1 31.4 94.2



#85

n-Butylbenzene

Concen: 0.203 ug/l

RT: 12.341 min Scan# 1846

Delta R.T. 0.012 min

Lab File: VX043014.D

Acq: 13 Aug 2024 14:51

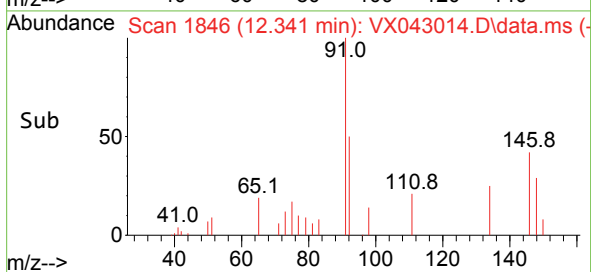
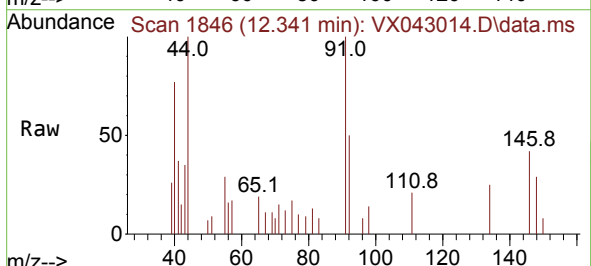
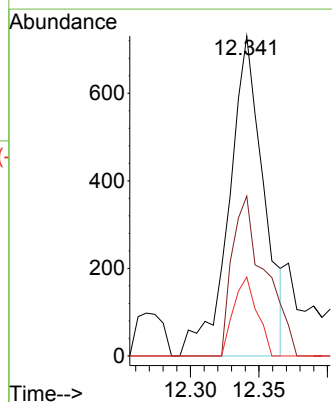
Tgt Ion: 91 Resp: 1284

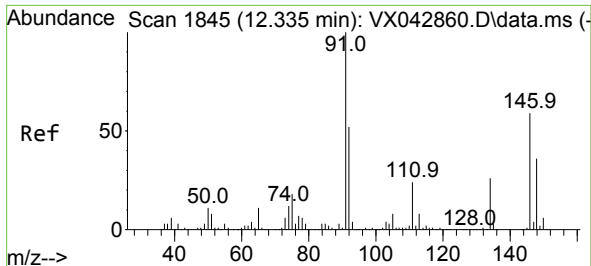
Ion Ratio Lower Upper

91 100

92 37.1 0.0 106.4

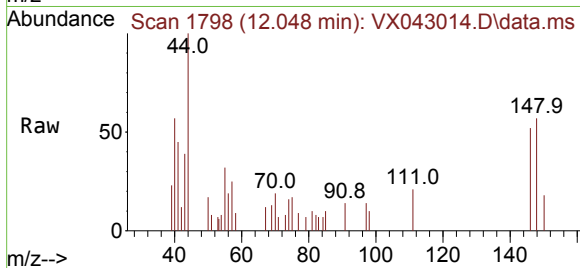
134 16.7 0.0 50.6



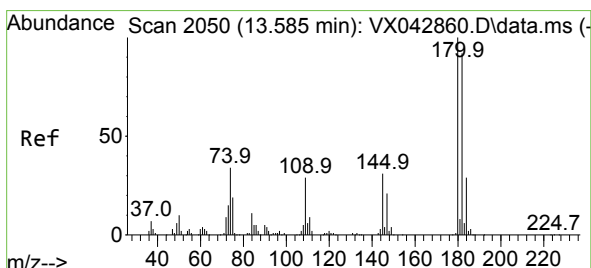
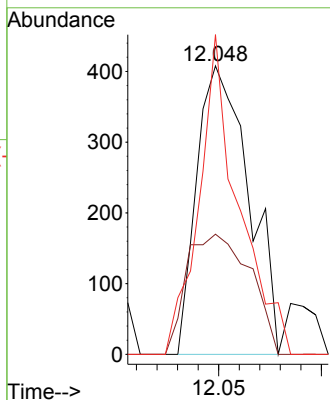
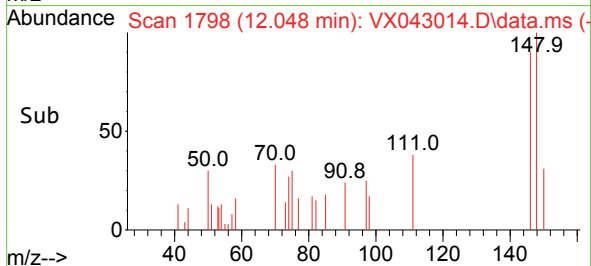


#87
1,2-Dichlorobenzene
Concen: 0.204 ug/l
RT: 12.048 min Scan# 111
Delta R.T. -0.287 min
Lab File: VX043014.D
Acq: 13 Aug 2024 14:51

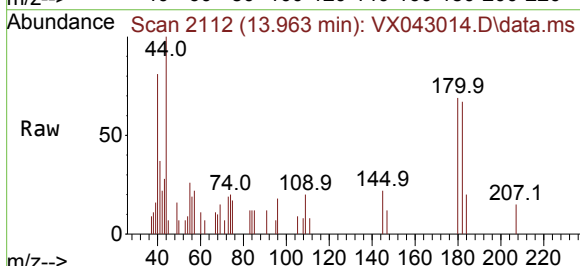
Instrument :
MSVOA_X
ClientSampleId :



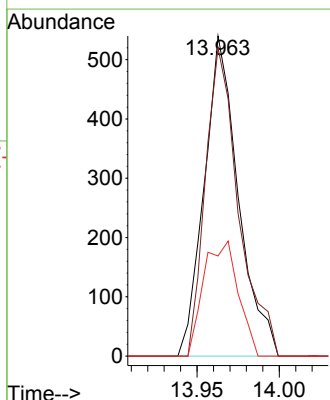
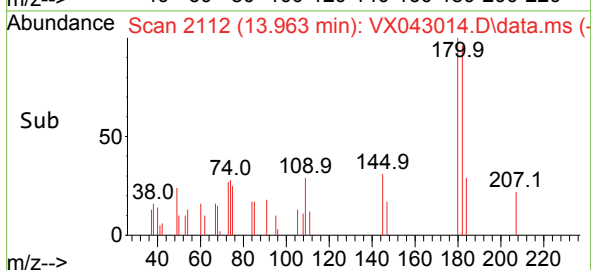
Tgt Ion:146 Resp: 719
Ion Ratio Lower Upper
146 100
111 50.9 21.0 63.0
148 84.1 30.8 92.4

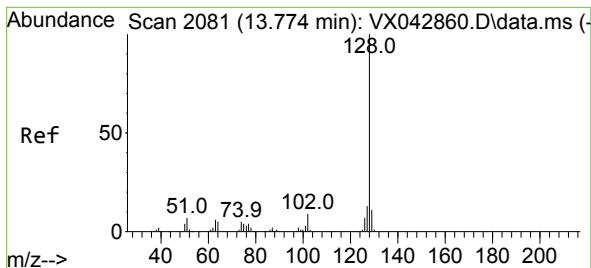


#89
1,2,4-Trichlorobenzene
Concen: 0.372 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.378 min
Lab File: VX043014.D
Acq: 13 Aug 2024 14:51



Tgt Ion:180 Resp: 777
Ion Ratio Lower Upper
180 100
182 93.7 73.1 109.7
145 36.4 24.6 37.0





#91

Naphthalene

Concen: 0.508 ug/l

RT: 13.780 min Scan# 2081

Delta R.T. 0.006 min

Lab File: VX043014.D

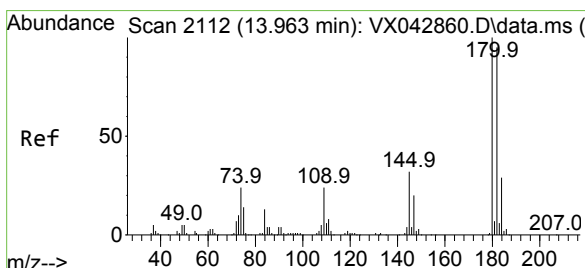
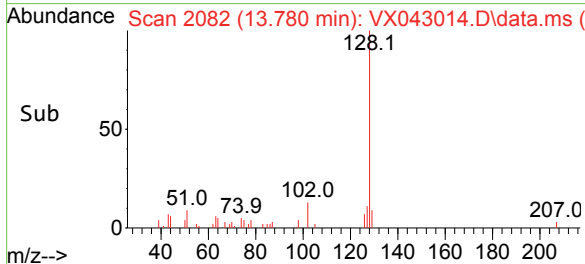
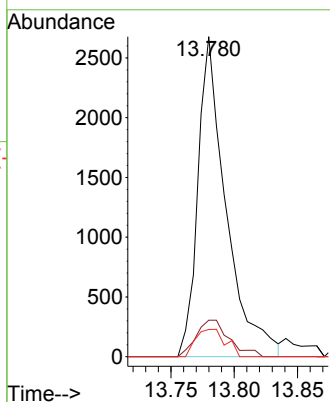
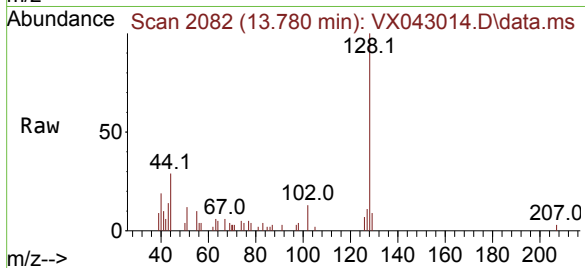
Acq: 13 Aug 2024 14:51

Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion:128	Resp:	4142
Ion Ratio	Lower	Upper
128	100	
127	12.5	10.2 15.4
129	9.1	8.8 13.2



#92

1,2,3-Trichlorobenzene

Concen: 0.365 ug/l

RT: 13.963 min Scan# 2112

Delta R.T. 0.006 min

Lab File: VX043014.D

Acq: 13 Aug 2024 14:51

Tgt Ion:180	Resp:	777
Ion Ratio	Lower	Upper
180	100	
182	93.7	0.0 185.8
145	36.4	0.0 65.2

